

COOS BAY SALE NO. ORC00-TS-2017.0033  
FIRST FLORAS RE-OFFER

COOS BAY DISTRICT OFFICE  
MYRTLEWOOD FIELD OFFICE

SALE DATE: JUNE 26, 2020  
SALE TIME: 10:00 a.m.

**LOCKED GATES – KEY REQUIRED**

SALE NO.: ORC00-TS-2017.0033, FIRST FLORAS RE-OFFER

**SET-ASIDE SALE**

CURRY COUNTY: OREGON: PD: SEALED BID: Bid deposit required: \$5,100.00

All timber designated for cutting on: T. 31 S., R. 14 W., Sec. 18, Lots 5, 6, 7, W1/2NE1/4, SE1/4NE1/4, Will. Mer.

Approx. No. Merch. Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Vol. Times Appraised Price
2,702	396	Douglas-fir	482	\$53.60**	\$25,835.20
2,441	550	western hemlock	710	\$33.00*	\$23,430.00
464	25	red alder	36	\$31.10*	\$1,119.60
<b>5,607</b>	<b>971</b>	<b>Total</b>	<b>1,228</b>		<b>\$50,384.80</b>

\*= APPRIASED AT 10% OF POND VALUE

\*\*=STUMPAGE ADJUSTED TO COMPENSATE FOR DEFIECT SPEICES. SEE APPRIASAL REPORT FOR MORE INFORMATION.

**SEALED BIDS WILL BE RECIVED BY THE DISTRICT MANAGER, OR DESIGANTED REPRESENTATIVE, AT THE BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OFFICE, 1300 AIRPORT LANE, NORTH BEND, OREGON 97459 BY 10:00 AM PACIFIC TIME, ON FRIDAY, JUNE 26, 2020. SEALED BIDS SHOULD BE CLEARLY MARKED, "ATTN: SEALED BID FIRST FLORAS RE-OFFER TIMBER SALE".**

**BIDDERS MUST SUBMIT A WRITTEN BID ON FORM 5440-9 ON A PRICE PER UNIT (MBF) OF THE DOUGLAS-FIR VOLUME. THE BID MUST NOT BE LESS THAN THE APPRAISED PRICE OF \$53.60/MBF. ALL OTHER SPECIES WILL BE SOLD AND THE APPRAISED PRICE PER UNIT (MBF).**

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

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

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

CRUISE INFORMATION: With respect to merchantable trees of all species in all cruise strata: the average DBHOB is 15.3 inches: the average gross merchantable log contains 74 bd. ft.; the total gross volume is approximately 1,328 thousand bd. ft.; and 93 % recovery is expected. None of the total sale volume is salvage material. The following cruise methods were used for volume determination.

3P: Timber volumes in Units 1, 2 and 3 were calculated using the 3P cruise system to select 154 sample trees. The sample trees have been cruised and the volumes computed using form class tables for estimating board foot volumes of trees in 16-foot logs.

100% CRUISE: Timber volumes within the Right of Way were based on a 100% cruise using form class tables for estimating board foot volume of trees in 16-foot logs.

CUTTING AREA: Three units totaling approximately 23 acres must be regeneration cut and 3 acres of Right of Way must be cut. Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

ACCESS: Access to the sale area is provided via: United States highways, Curry County roads, privately controlled roads, and Government controlled roads.

DIRECTIONS TO SALE AREA: From Coos Bay, Oregon, travel south on Highway 101 for approximately 43 miles. Turn east onto Floras creek County Road and travel 2.7 miles. Turn right onto the 31-14-6.0 road. Private gate requires BLM Key Series 2A-192. Travel approximately 2 miles to the sale area. Refer to Exhibits A and A-1 for unit locations.

ROAD USE, ROCKWEAR & MAINTENANCE: Refer to Exhibit E Summary attached. Operator maintenance required on 2.35 miles of road.

Rockwear Fees Payable to BLM:	\$ 1,521.09
Rockwear Fees Payable to Moore Mill:	\$ 31.70
Road Use Fees Payable to Moore Mill:	\$ 1,101.20

ROAD CONSTRUCTION: Road Construction estimates include the following:

New Construction:

27.47 stations

Road Renovation:

284.18 stations

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Aggregate (All quantities are truck measurement):

3" minus hardrock: 6 L.C.Y.  
1 ½" minus hardrock: 223 L.C.Y.  
1 ½" minus maintenance hardrock: 50 L.C.Y.  
1 ½" minus bedding hardrock: 80 L.C.Y.  
Riprap Energy Dissipater: 60 L.C.Y.

Drainage:

18" CPE double wall: 240'  
Culvert Markers: 34

Soil Stabilization:

Dry Seed, fertilizer, & mulch: 6.7 acres (Pre-haul)  
Dry Seed, fertilizer, & mulch: 3.5 acres (Post-haul)

Roadside Brushing:

10.4 acres

Road Decommissioning:

Earthen Berm Barriers: 4  
Normal Decommissioning: 55.77 stations

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

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

1. Access to the sale area via Private Road No. 31-14-6.0 Seg. A requires a Series 2A-192 BLM gate key. Keys are available at the BLM office located at 1300 Airport Lane, North Bend, OR 97459, (541) 756-0100. A \$50 deposit is required.
2. License agreement is required with Moore Mill & Lumber Company, RWA-C-333. A performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required for this license agreement.
3. License agreement is required with Moore Mill & Lumber Company, RWA- C-364. A performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required for this license agreement.

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4. All trees within the right-of-way on private property are marked with teal green paint. Purchaser will be required to fell, buck and deck trees/logs in a location approved by the Authorized Officer. The Purchaser shall contact Moore Mill's office 30 days prior to cutting any R/W timber; Moore Mill will provide log lengths and diameter specifications to the Purchaser at that time.
5. All equipment must be washed prior to entry into the contract area to control the spread of noxious weeds.
6. Seasonal Restrictions affect portions of Units 2 and 3. Tree felling, yarding, log hauling on BLM Road No. 31-14-18.1 Seg. A and 31-14-18.2 roads and road construction operations are prohibited from March 1 through August 5. Additionally, a daily timing restriction confines tree felling, yarding, log hauling on the 31-14-18.1 Seg. A and 31-14-18.2 roads and road construction operations to the period from two hours after sunrise to two hours before sunset from August 6 through September 15.
7. All roads are approved for dry-season haul (June 1 through October 15) only.
8. No trees shall be felled into Reserve or Green Tree Retention Areas, as shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary.
9. Lift trees and intermediate support trees may be necessary.
10. One-end suspension required in cable and ground-based yarding areas.
11. A forwarder, log loader, tractor, or rubber tire skidder may be used to yard logs within the Ground-based Yarding areas. Ground-based equipment are restricted to areas with slopes less than 35%.
12. Purchaser shall verify all landing locations and stake required clearing limits prior to construction.
13. Shape and restore all landings to a natural contour to prevent erosion.
14. Seed and fertilize all landings, road cuts and fills, and waste areas.
15. Soil stabilization, water bar construction, road decommissioning, and road barrier construction shall be conducted after the completion of harvest activities but no later than October 15.
16. BLM will assume supervisory responsibility for disposal of logging slash.
17. Machine piling or scattering of logging slash are required at all landing areas and along all roads.
18. After yarding is complete the purchaser shall girdle 53 conifer trees and fall 48 conifer trees in Units 1, 2 and 3.
19. A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to: (1) Comply with the Endangered Species Act or to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), or; (2) Comply with a court order, or; (3) Protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines or management direction established in the ROD and RMP.



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**Seasonal Restriction Matrix** ORC00-TS-2017.0033 FIRST FLORAS RE-OFFER 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
<b>General All Units</b>	Falling and bucking <sup>2</sup>																								
	Cable yarding <sup>2</sup>																								
	Road Construction, Renovation, or Improvement Work <sup>1</sup>																								
	Hauling <sup>1</sup>																								
	Ground based yarding <sup>3</sup>																								
<b>Units 2, 3, 31-14-18.1 &amp; 31-14-18.2 Roads</b>	Seasonal Restriction Area (NSO & MM) <sup>5</sup>																								

<sup>1</sup> Wet season restrictions may be shortened or extended depending on weather conditions.

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

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

<sup>5</sup> In the Seasonal Restriction Area (MM), as shown on Exhibit A, falling, yarding, and new road construction operations 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 both days included.

<sup>6</sup> In the Seasonal Restriction Area (NSO), as shown on Exhibit A, falling, yarding, log hauling and new road construction operations are prohibited in the period between March 1 and June 30.

## SCHEDULE I

Sec 41. **TIMBER RESERVED FROM CUTTING.** The following timber on the Contract Area, shown on Exhibit A, which is attached hereto and made a part hereof, is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of the Government:

- a. All timber in the Reserve Areas, as shown on Exhibit A, and all blazed, orange painted and/or posted trees which are on or mark the boundaries of the Reserve Area.
- b. All timber marked, by the Government, with orange paint above and below stump height within the Harvest Cut Units, shown on Exhibit A. Approximately 101 trees painted orange within the harvest units; 53 are marked for snag creation and 48 are marked for the creation of down woody debris.
- c. All existing standing dead trees, except those snags that must be felled to permit safe working operation 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 20 inches or larger in diameter measured on the large end regardless of decay class.
- e. Approximately 30 Douglas-fir and 60 Western hemlock trees, each marked with an orange painted "W" above stump height and orange painted below stump height in Unit 1. Approximately 28 Douglas-fir and 2 Port-Orford-cedar trees, each marked with an orange painted "W" above stump height and orange painted below stump height in Unit 2. All "W" reserve trees are as shown on Exhibit A. These trees are selected wildlife trees and are specially valued as a component of the Wildlife Habitat Management program. Selected wildlife trees damaged or destroyed by the Purchaser shall be valued for purposes of determining damages at either current market value of the merchantable volume, whichever is greater, plus the cost to replace the damages or destroyed trees. The Purchaser will be liable under applicable sections of this contract for the removal or destruction of these selected wildlife trees, except for such trees which the Authorized Officer determines to be a safety hazard as defined by applicable safety codes and regulations. When selected wildlife trees are determined to be danger trees, written approval to cut such trees shall be obtained from the Authorized Officer conforming to all requirements of Section 8 of this contract.
- f. All Bearing Trees with metal tags that mark property corners. One Bearing Tree painted blue above and below stump height within the Right of Way for BLM Road No. 31-14-18.2 shall be cut and removed.

Sec 42. **SPECIAL PROVISIONS.** Purchaser shall comply with the special provisions which are attached hereto and made a part hereof unless otherwise authorized, in writing, by the Authorized Officer:

### a. Periodic Payment and First Installment Adjustment

(1) Notwithstanding the provisions of Sec. 3(b), the amount of the first installment may be reduced by the Government when the Contracting Officer requests the Purchaser to interrupt or delay operations for a period expected to last more than 30 days during the operating season. Such interruption or delay must be beyond the Purchaser's control. Operating Season shall be defined, for this purpose, as the time of year in which operations of the type required are normally conducted and not specifically restricted under the contract. The first installment may be reduced to 5% of the installment amount listed in Sec. 3(b), during the delay period. The

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Purchaser must request such a reduction in writing. When the Contracting Officer notifies the Purchaser that operations may proceed, the purchaser shall have 15 days after such notification to return the first installment to the full value specified in Sec. 3(b). Failure to return the first installment to the full value within the allotted time will be considered a material breach of contract. No timber shall be cut or removed from the contract area until the first installment is restored to the full amount.

(2) Notwithstanding the provisions of Sec. 3(b), adjustments in the due dates for periodic payments may be made by the Government if the Contracting Officer interrupts or delays contract operations for a period expected to last at least 30 days, and the interruption or delay is beyond the Purchaser's control. Any adjustment made shall provide the Purchaser with an equal amount of operating time as would have been available without the delay. The Purchaser shall request such adjustment in writing before the due date for a periodic payment contained in Sec. 3(b).

b. Logging

(1) Prior to commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved.

(2) Before beginning operations on the contract area for the first time, or after a shutdown of ten or more days, the Purchaser shall notify the Authorized Officer in writing of the date 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 or Reserve Area - Green Tree Retention as shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary to prevent trees from falling into these areas.

(4) In the Seasonal Restriction Area (NSO & MM), shown on Exhibit A, falling, yarding, log hauling and new road construction operations are prohibited in the period between March 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.

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

(6) In all Units, trees will be whole tree yarded when feasible to the landing areas.

(7) In all Units, yarding (except for road Right of Way and Ground-based Yarding Area), as shown on Exhibit A shall be done with a skyline cable system according to the following:

(A) One-end log suspension is required during yarding operations. Intermediate supports and/or lift trees may be required to obtain the required suspension.

(B) The Purchaser shall make all cable sky road changes by completely re-spooling cables and

restringing the layout from head spar to tailhold.

(C) Where road locations allow, yarding will be done so that corridors run parallel to each other rather than radiate from a central landing.

(8) In the Ground-based Yarding Area and within road Right 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, no ground-based logging operations shall be conducted on the contract area between October 15 of one calendar year and June 1 of the following calendar year, both days inclusive.

(B) Ground-based operations shall be conducted when soil moisture content is below 25%, as determined by the Authorized Officer; unseasonably dry or wet weather may shorten or extend the operating season. The Purchaser shall be notified in writing when weather conditions extend the operating season. The Purchaser shall cease operations during periods of rain and shall be notified, after a soil-moisture assessment by the Authorized Officer, when operations may resume.

(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 Base 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 roads/trails shall use existing trails wherever possible, designate skid trails with the objective of having less than 12 percent of a harvest area affected by compaction.

(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 35%.

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

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

(10) During logging operations, the Purchaser shall keep BLM Road Nos. 31-14-6.0 Seg. B, 31-14-17.3 and 31-14-17.5 where they pass through the contract area, clear of trees, rock, dirt and other debris so far as is practicable. These roads shall not be blocked by such operations for more than 20 minutes. The Purchaser shall provide signage and flaggers to control traffic when conducting operations adjacent to any road as directed by the Authorized Officer and in accordance with Sec. 29 of the timber sale contract.

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

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(12) After completion of yarding activities, the Purchaser shall girdle 53 conifer trees and fall 48 conifer trees in Units 1, 2 and 3, as directed by the Authorized Officer, according to the following:

- (a) Unit 1: girdle 30 conifer trees (marked with "S") and fall 21 conifer trees (marked with "DW").
- (b) Unit 2: girdle 10 conifer trees (marked with "S") and fall 18 conifer trees (marked with "DW").
- (c) Unit 3: girdle 13 conifer trees (marked with "S") and fall 9 conifer trees (marked with "DW").

The Purchaser shall girdle at DBH. Girdling will consist of removing a four inch band of bark (all sapwood shall remain intact) completely around the bole of the tree. Girdling will not be permitted on trees less than 100 feet from roads. Girdled trees shall have a number painted at breast height with fluorescent paint such that they are visible from at least 150 feet, felled trees shall have the butt ends painted. Number and location of treated trees shall be depicted on a map by the Purchaser such that they may be easily verified.

(13) All Bearing Trees with metal tags that mark property corners as follows, notwithstanding the provisions of Section 22, 1 Bearing Tree located at the  $\frac{1}{4}$  corner of Sections 7 and 18, T. 31S., R. 14W., W.M. in Unit 1 shall be cut on a bevel, the lowest part not less than eighteen (18) inches above the scribe marks and in such a manner that will not mutilate the markings identifying the bearing trees.

The Purchaser shall treat all such bearing tree stumps in the following manner during the dry season of the year:

Remove all bark providing there are no identifying marks on the bark. Flood the tops and sides of the stumps with a copper naphthenate solution which conforms to American Wood Preservers Association Standard P 9 (hydrocarbon solvent) and contains a minimum of two (2) percent copper metal.

Let the stump dry for one month.

Repeat the flooding operation.

Place a sheet of galvanized metal over the top of each stump, bend down the edges, and nail to the side of the stump.

A six (6) foot long steel fence post shall be driven alongside the corner monument if existent.

c. Road Construction

(1) The Purchaser shall construct and renovate roads 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 or renovation of structures and roads shall be completed and accepted prior to the removal of any timber, except right-of-way timber, over that road.

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

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

d. Road Use and Maintenance

(1) The Purchaser shall be required to secure written approval to use or haul equipment over Government owned or controlled structures when that equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

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

- (A) Axle weights when fully loaded;
- (B) Axle spacing;
- (C) Transverse wheel spacing;
- (D) Tire size;
- (E) Outside width of vehicle;
- (F) Operating speed;
- (G) Frequency of use; and,
- (H) Special features (e.g. running tracks, overhang loads, etc.).

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

(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 road maintenance fees and rockwear fees totaling \$1,521.09 as shown on Exhibit E. Unless the total maintenance and rockwear fees due BLM are paid prior to commencement of operations on the contract area, payments shall be made in installments payable in the same manner as and together with payments required by Sec. 3 of this contract.

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

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

(6) With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative

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maintenance with other users of any BLM controlled road included in Sec. 42.c.(1) and 42.d.(3) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with other 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 road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Sec. 42.c.(1) and 42.d.(3). If the total road maintenance fee does not exceed \$500.00, the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance fee exceeds \$500.00, the Authorized Officer shall establish an installment schedule of payments of the maintenance obligation.

(8) The Purchaser shall cease winter log hauling if the ground is already saturated from winter rains and more than 1 inch of precipitation is predicted over the next 24 hours or as determined by the Authorized Officer.

(9) All roads are restricted to dry season haul only between June 1 and October 15 unless dry conditions extend the hauling season, as directed by the Authorized Officer.

(10) All trees within the Right of Way for Moore Mill Road No. 31-14-18.1 Seg. B and BLM Road No. 31-14-18.2 to be cut on private property are marked with teal green paint. The Purchaser will be required to fell, buck, and deck logs in a location approved by the Authorized Officer. The Purchaser shall contact Moore Mill's office 30 days prior to cutting any R/W timber for current log lengths and diameter specifications.

(11) During periods of vehicle use and timber haul on Private Road No. 31-14-6.0 Seg. A, the gate at the cattle guard shall be left open during use and closed and locked at the end of each day. The gate without a cattle guard at approximately MP 0.736 shall remain closed at all times to control the cattle on the adjacent landowner property and shall be opened and closed for each vehicle during operations.

(12) In the use of required company roads shown on the Exhibit E, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement between the United States and Moore Mill & Lumber Company, RWA C-333. The agreement is available for inspection at the Bureau of Land Management, Coos Bay, Oregon. A performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required by Licensor.

(13) In the use of required company roads shown on the Exhibit E, the Purchaser shall comply with the conditions of the Right-of-Way and Road Use Agreement between the United States and Moore Mill & Lumber Company, RWA C-364. The agreement is available for inspection at the Bureau of Land Management, Coos Bay, Oregon. A performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required by Licensor.

(14) Prior to commencement of operations, the Purchaser shall furnish to the Authorized Officer a copy of the executed License Agreements issued under the terms of the Right-of-Way Agreements. Default by the Purchaser of said Right-of-Way and Road Use Agreements, 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

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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.

Rockwear Fees Payable to Moore Mill & Lumber Company:	\$31.70
Road Use Fees Payable to Moore Mill & Lumber Company:	\$1,101.20

e. Fire Prevention, Hazard Reduction, and Logging Residue Reduction

(1) BLM will assume responsibility for burning of logging slash. The assumption by the Government of all obligations for the disposal or reduction of fire hazard under state law does not relieve the Purchaser of the obligations to perform the fire prevention, hazard reduction, and logging residue reduction measures required by this contract.

(2) 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 prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.
- b) Slash shall be disposed of in accordance with the written instructions of the Authorized Officer.
- c) At each landing during periods of operation one (1) tank truck of two thousand (2,000) gallons or more capacity with one thousand (1,000) feet of one and one-half (1 ½) inch hose, two (2) nozzles and a gated-wye. Two (2) one-thousand (1,000) gallon tank trucks or portable tanks may be substituted for each required two thousand (2,000) gallon tank truck, provided that the total capability to pump and deliver water remains unchanged. Each tank truck shall be equipped with a pump capable of delivering a minimum of twenty (20) gallons per minute (gpm) water flow at one hundred ten (110) pounds per square inch (psi) engine pressure through fifty (50) feet of 1 ½ inch fire hose. The pump may either be power take off driven or truck-mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters use. All tank trucks shall be filled with water and made available for immediate use.

(3) Logging Residue Reduction. In addition to the requirements of Section 15 of this contract and for hazardous fuel reduction, watershed protection, and silvicultural purposes, the Purchaser shall be responsible for logging residue reduction at all landing sites in the sale.

- a) In lieu of burning, the Purchaser may remove landing residue for off-site utilization. If the utilization method is selected, the Purchaser shall provide information on the total tonnage of landing residue being removed from the sale area.
- b) Prior to commencement of landing residue removal, the Purchaser shall provide advanced notification to the Authorized Officer in order to arrange for on-site inspections of the removal operations. Upon



completion of landing residue removal, the Purchaser shall notify the Authorized Officer to arrange for a final inspection of the landing sites.

Specifications for Landing Piling

1. Unless otherwise approved in advance by the Authorized Officer, landing piling shall be completed at each yarding location (setting) concurrently with the conclusion of yarding operations while logging equipment is still on site.
2. Logging residue within the immediate vicinity of the landing, and any residue that overhangs the landing sites that can be reached by logging equipment, shall be pulled completely back up onto the landing surface and either piled for burning or segregated for other uses.
3. Logging residue at landings shall be accumulated into the fewest number of piles possible. Landing piles shall be constructed as upright as possible and have a solid base to prevent toppling. All piles with pointed, jagged tops shall be flattened or trimmed to ensure a smooth surface for the polyethylene covering. Unless directed by the Authorized Officer, no landing piles shall be constructed within fifteen (15) feet of any reserve tree.

Specifications for Landing Pile Covering

1. All piles shall be covered no later than September 30 of the same year of piling.
2. The purchaser shall place four (4) MIL, black polyethylene sheeting (PE) over the pile to provide maximum protection from fall/winter rains. Unless otherwise directed, the size of the plastic shall not be smaller than one-hundred (100) square feet (10' X 10').
3. Piles with material extending more than two (2) feet beyond the general contour of the pile shall be flattened or trimmed to create a uniform surface and to prevent the PE sheeting from tearing during wind events. Pile trimming or flattening shall be done prior to pile covering.
4. To ensure the center of the pile remains dry, all PE sheeting shall be weighted down with slash or logging debris and/or tied down with twine on all four corners in order to prevent sheeting from tearing, and blowing or sliding off of the pile. An adequate amount of anchoring material should be used, but no more than twenty (20) percent of the material to be piled may be placed on top of the sheeting.
5. At landing sites with excessive logging residue below the landing that is out of reach of the equipment on site, the Purchaser shall place additional PE sheeting over the residue concentrations as directed by the Authorized Officer.
6. Piles of residue identified by the Authorized Officer for other uses shall not be covered with PE sheeting.

f. Log Export and Substitution

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

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

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

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

- (A) date of last export sale;
- (B) volume of timber contained in last export sale;
- (C) volume of timber exported in the past 12 months from the date of last export sale;
- (D) volume of Federal timber purchased in the past 12 months from the date of last export sale;
- (E) volume of timber exported in succeeding 12 months from date of last export sale; and,
- (F) volume of Federal timber purchased in succeeding 12 months from date of last export sale.

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

3) In the event an affiliate of the Purchaser has exported private timber within 12 months prior to purchasing or otherwise acquiring Federal timber sold under this contract, the Purchaser shall, upon request, obtain from the affiliate information in a form specified by the Authorized Officer and furnish the information

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

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5) 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 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 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.

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

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 \$921.00. In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of \$921.00 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. Cultural Resource Protection

1) If in connection with operations under this contract, the Purchaser, his contractors, sub-contractors, or the employees of any of them, discovers, encounters or becomes aware of any objects or sites of cultural value on the contract area such as historical or prehistorical ruins, fossils, or artifacts, the Purchaser shall immediately suspend all operations in the vicinity of the cultural value and notify the Authorized Officer of the findings. Operations may resume at the discovery site upon receipt of written instructions and authorization by the Authorized Officer.

2) Pursuant to 43 CFR 10.4(g) the holder of this authorization must notify the Authorized Officer, by telephone, with written confirmation, immediately upon discovery of human remains, funerary items, sacred objects, or objects of cultural patrimony. Further, pursuant to 43 CFR 10.4(c) and (d), you must stop activities in the vicinity of the discovery and protect it for 30 days or until notified to proceed by the Authorized Officer.

i. Sensitive, Threatened, or Endangered Plants or Animals

The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:

1. threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
2. when, in order to comply with the Endangered Species Act, or to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines or management direction of the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
3. when federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
4. other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
5. when, in order to comply with a court order, which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
6. when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
7. species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines, or management direction established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
8. when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines, or management direction established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

Those operations necessary for a safe removal of personnel and equipment from the contract area and those directed by the Contracting Officer which are required in order to leave the contract area in an acceptable condition will be permitted. Discontinued operations may be resumed upon receipt of written instructions and authorization by the Contracting Officer.

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During any period of suspension, the Purchaser may withdraw performance and payment bond coverage aside from that deemed necessary by the Authorized Officer to secure cut and/or removed timber for which the Bureau of Land Management has not received payment, and/or unfulfilled contract requirements associated with harvest operations that have already occurred and associated post-harvest requirements.

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension extending beyond 30 days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Sec. 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, *et seq.*). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Sec. 3.b. of the contract within 15 days after the bill for collection is issued, subject to Sec. 3.h. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

In the event that operating time is lost as a result of the incorporation of additional contract requirements, or delays due to Endangered Species Act consultation with the U.S. Fish and Wildlife Service or U.S. National Marine Fisheries Service, or court-ordered injunctions, the Purchaser agrees that an extension of time, without reappraisal, will constitute a full and complete remedy for any claim that delays due to the suspension hindered performance of the contract or resulted in damages of any kind to the Purchaser.

The Contracting Officer may determine that it is necessary to modify the contract or terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, prevent incidental take of northern spotted owls and protect occupied marbled murrelet sites in accordance with the ROD and RMP, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines or management direction established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, if able to proceed without causing incidental take of northern spotted owls and marbled murrelet occupied site protection in accordance with the ROD and RMP, consistent with survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

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In the event cutting and removal rights are terminated under this subsection the Purchaser agrees that the liability of the United States shall be limited to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area. This calculation of liability shall utilize actual Purchaser costs and Government estimates of timber volumes. At the Authorized Officer's request, the Purchaser agrees to provide documentation of the actual costs incurred in the performance of the contract. In addition, the Purchaser shall be released from the obligation to pay the contract price for any timber which is not authorized to be removed from the contract area.

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims based on effects on the operation of the contract that arise from litigation against another agency. Furthermore, the Purchaser specifically acknowledges and agrees that a court ruling that the Government violated the Administrative Procedures Act cannot be interpreted, in itself, to mean that the Government had not acted reasonably in regard to its duties to the Purchaser under this contract.

j. Safety

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

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

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

k. Small Business Administration (SBA) Set Aside

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

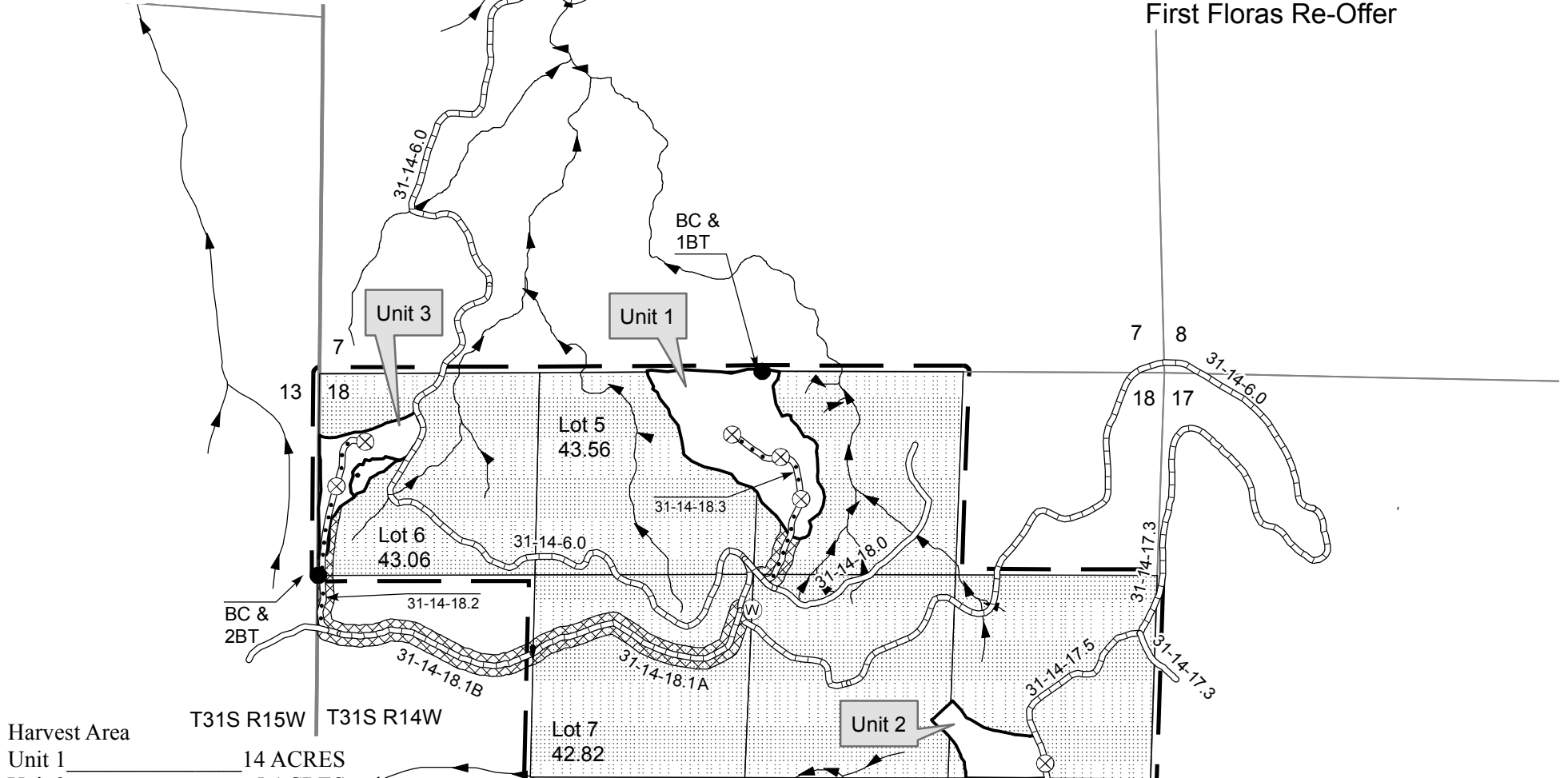
COOS BAY SALE NO. ORC00-TS-2017.0033  
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The purchaser understands that in addition to other penalties which may be imposed for violating the foregoing, the purchaser may be declared ineligible to participate in future Federal timber sales that are set-aside for preferential bidding by small business qualified concerns for two semi-annual triggered periods succeeding the violation.

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

TIMBER SALE CONTRACT MAP  
 USDI-BLM COOS BAY DISTRICT  
 T. 31 S., R. 14 W., Sec. 18, Will. Mer.

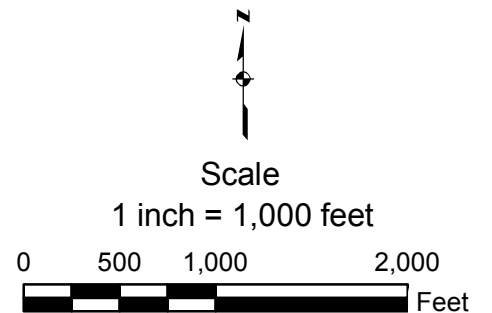
SALE NO. ORC00-TS-2017.0033  
 EXHIBIT A  
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 First Floras Re-Offer



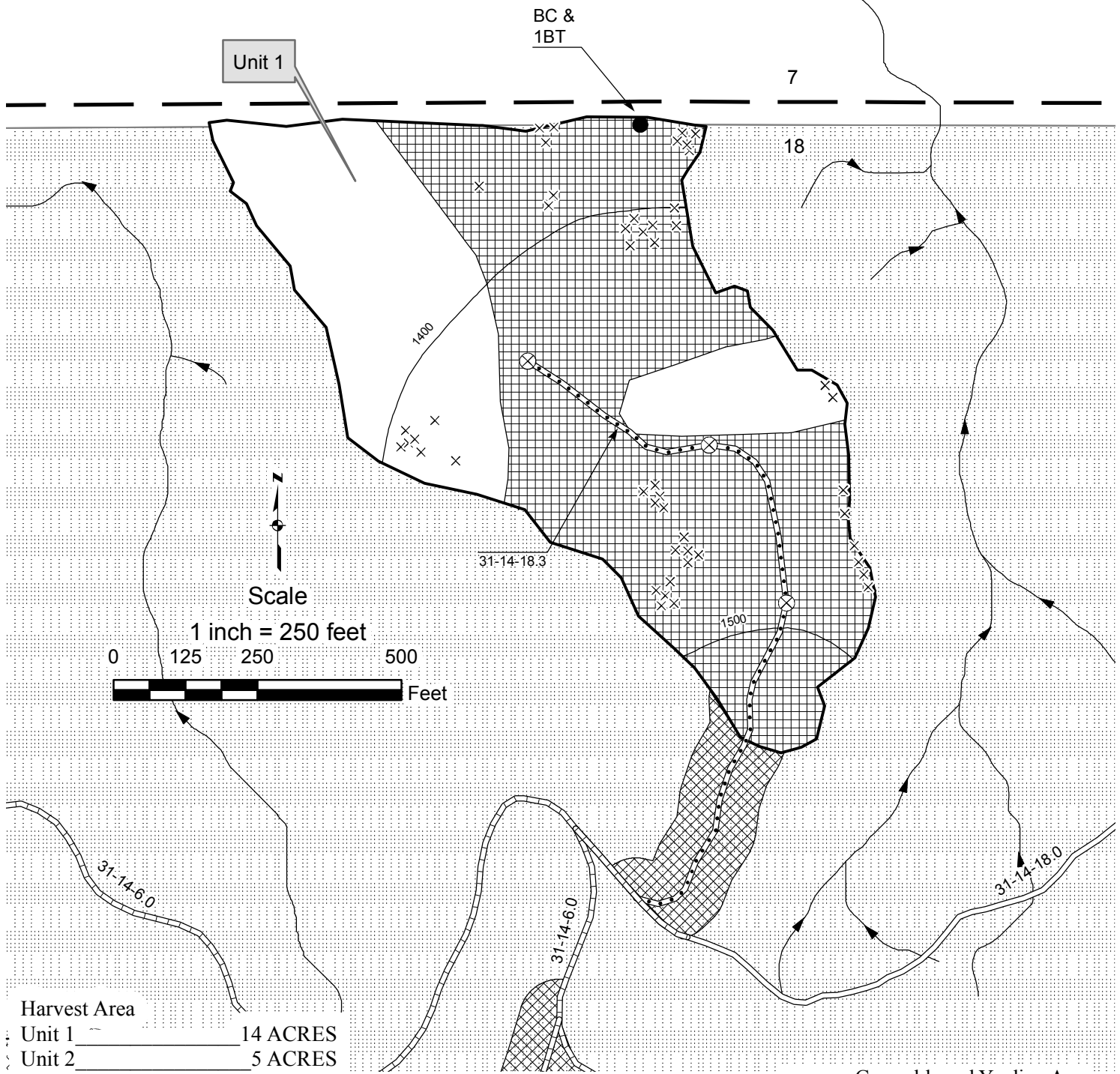
Harvest Area	
Unit 1	14 ACRES
Unit 2	5 ACRES
Unit 3	4 ACRES
RW	3 ACRES
<b>Total</b>	<b>26 ACRES</b>
<b>Total Reserve Area</b>	<b>429 ACRES</b>
<b>Total Contract Area</b>	<b>455 ACRES</b>

Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

- Waste Area
- Corner Found
- Proposed Landing
- Boundary of Contract Area
- Harvest Area
- Reserve Area
- Reserve Area-Green Tree Retention
- Road Segment Break
- Road Right of Way
- Stream Channel
- Existing Road
- Road to be Renovated
- Road to be Constructed



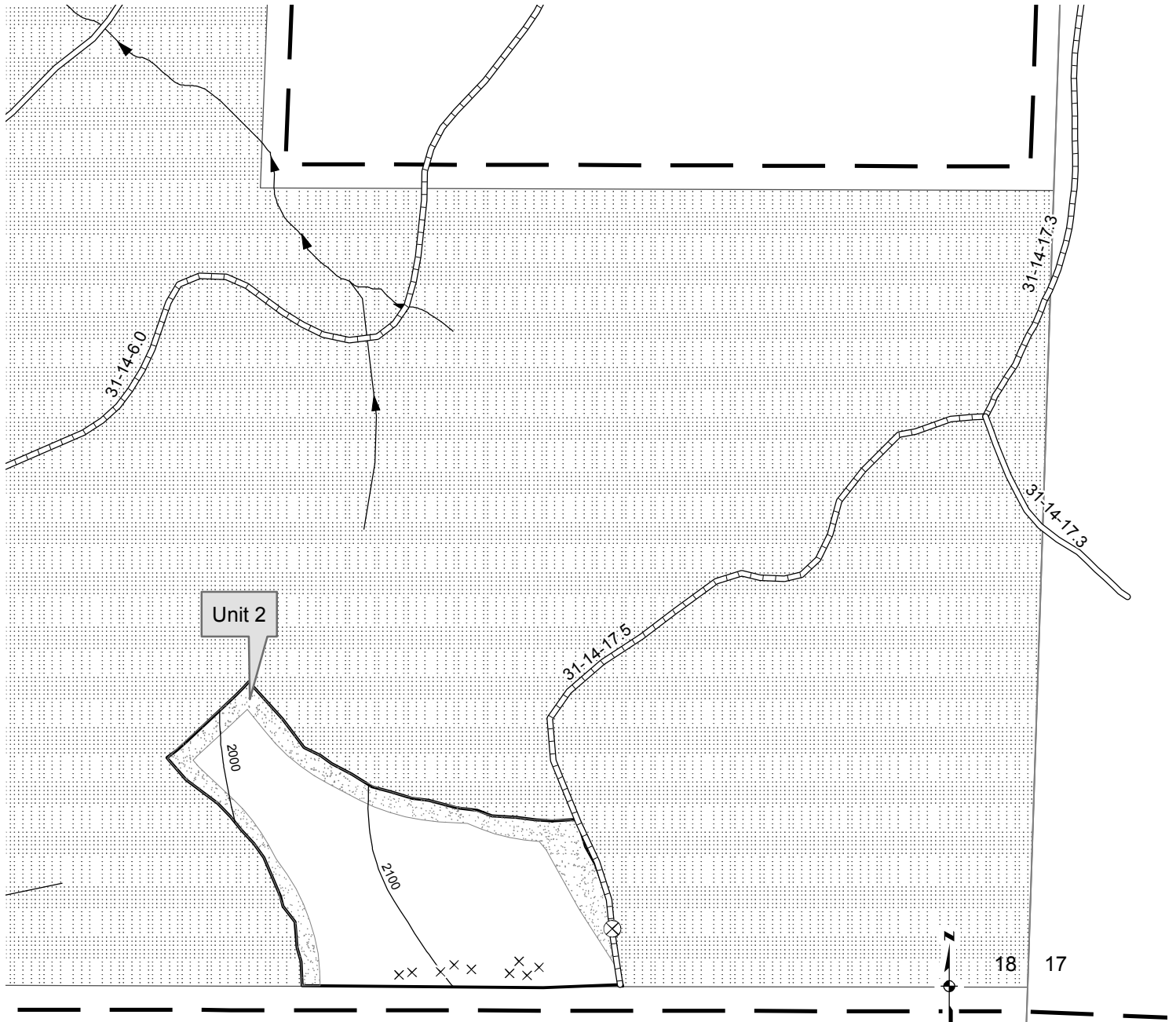




Harvest Area	
Unit 1	14 ACRES
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<b>Total</b>	<b>26 ACRES</b>
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Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

- Wildlife Tree
- Corner Found
- Proposed Landing
- Boundary of Contract Area
- Harvest Area
- Reserve Area
- Ground-based Yarding Area (11 Ac.)
- 100' Contour
- Road Right of Way
- Stream Channel
- Existing Road
- Road to be Renovated
- Road to be Constructed



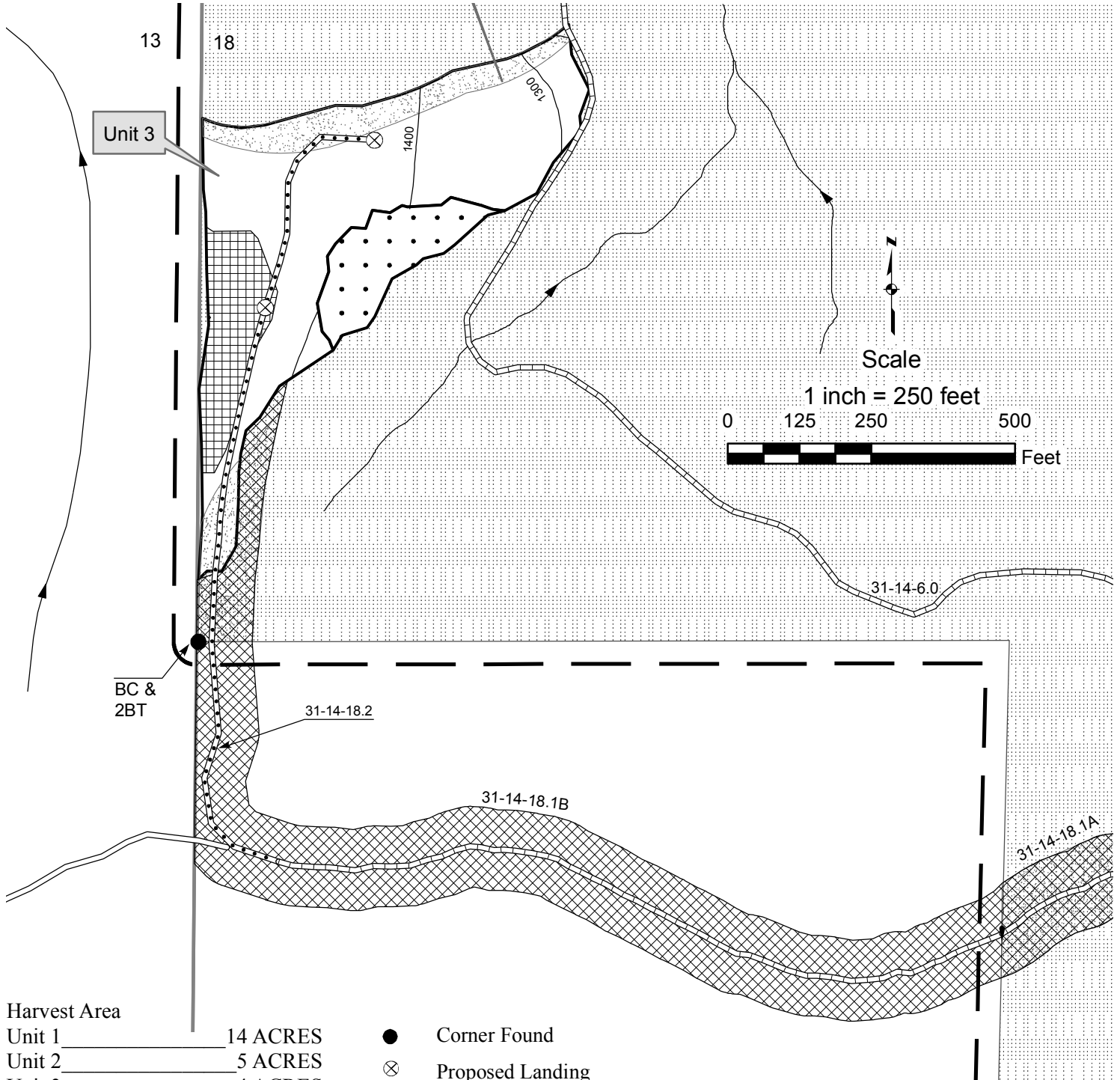
Harvest Area	
Unit 1	14 ACRES
Unit 2	5 ACRES
Unit 3	4 ACRES
RW	3 ACRES
Total	26 ACRES
Total Reserve Area	429 ACRES
Total Contract Area	455 ACRES

Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

- × Wildlife Tree
- ⊗ Proposed Landing
- ┌───┐ Boundary of Contract Area
- ▭ Harvest Area
- ▨ Reserve Area
- ▧ Seasonally Restricted Area



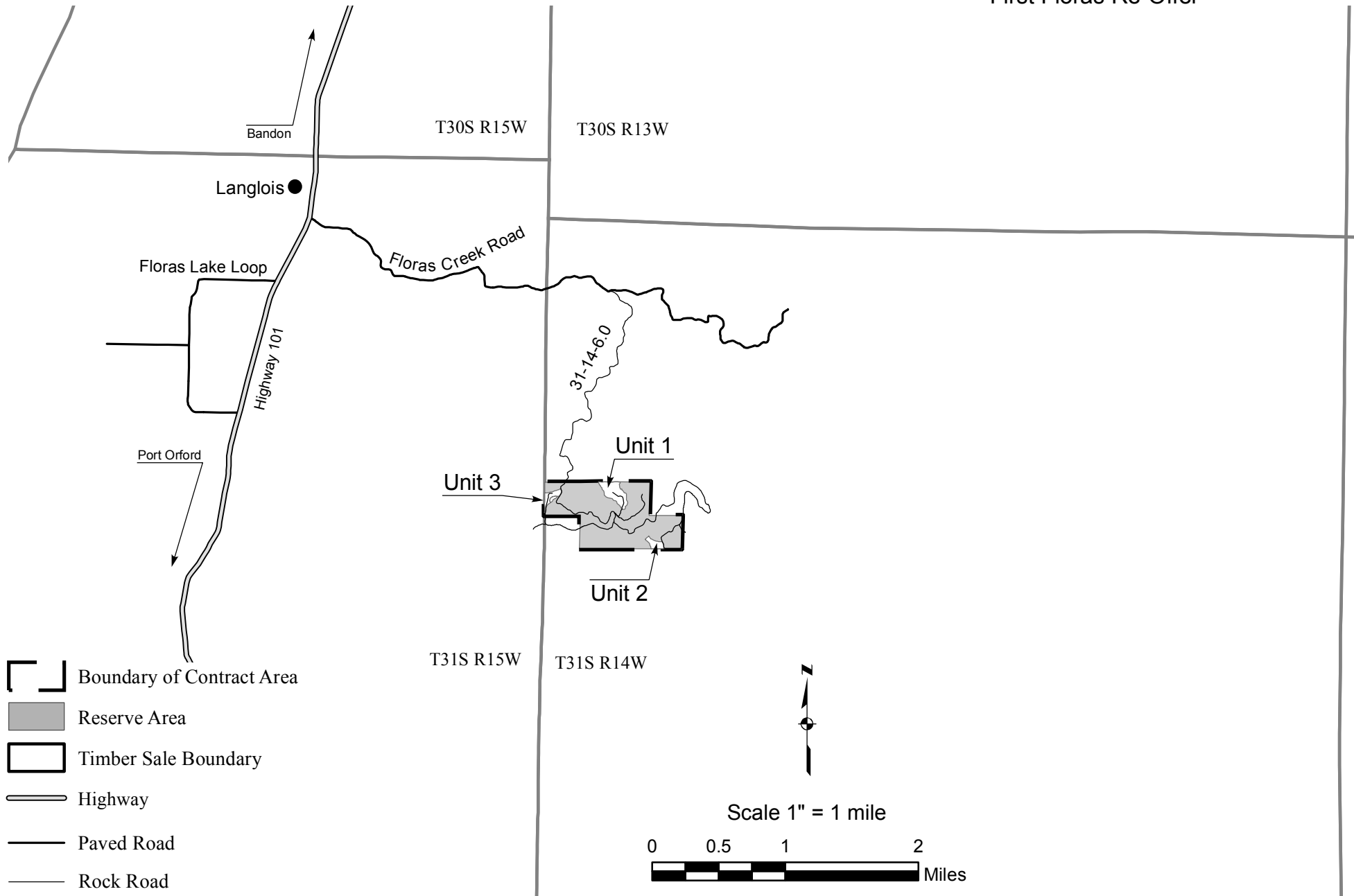
- 100' Contour
- ▶ Stream Channel
- Existing Road
- Road to be Renovated



Harvest Area	
Unit 1	14 ACRES
Unit 2	5 ACRES
Unit 3	4 ACRES
RW	3 ACRES
Total	26 ACRES
Total Reserve Area	429 ACRES
Total Contract Area	455 ACRES

Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

- Corner Found
- ⊗ Proposed Landing
- ┌───┐ Boundary of Contract Area
- ▭ Harvest Area
- ▨ Reserve Area
- ▩ Reserve Area-Green Tree Retention
- ▧ Ground-based Yarding Area (11 Ac.)
- ▤ Seasonally Restricted Area
- ⤴ Road Segment Break
- ▨ Road Right of Way
- 100' Contour
- ↔ Stream Channel
- Existing Road
- ▬ Road to be Renovated
- ▬ Road to be Constructed



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

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Contract No: ORC00-TS-2017.0033

First Floras Re-Offer

**EXHIBIT B  
LUMP SUM SALE**

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

SPECIES	ESTIMATED VOLUME in MBF	APPRAISED PRICE PER UNIT	AMOUNT OF ESTIMATED VOLUME OR QUANTITY x UNIT PRICE
Douglas-fir	482 MBF	\$53.60	\$25,835.20
western hemlock	710 MBF	\$33.00	\$23,430.00
Port-Orford-cedar	0 MBF	\$0.00	\$0.00
red alder	36 MBF	\$31.10	\$1,119.60
<b>Totals</b>	<b>1228 MBF</b>		<b>\$50,384.80</b>

The apportionment of the total purchase price is as follows:

Approx. No. of Trees	UNIT NO. 1	EST. NET MBF VOL.			
390	Douglas-fir	119	\$53.60	\$6,378.40	
2147	western hemlock	627	\$33.00	\$20,691.00	
0	Port-Orford-cedar	0	\$0.00	\$0.00	
250	red alder	22	\$31.10	\$684.20	
<b>2787 TOTALS</b>		<b>768</b>			
			<b>14 Acres =</b>	<b>\$1,982.40 /Ac.</b>	
				<b>Unit Total</b>	<b>\$27,753.60</b>

Approx. No. of Trees	UNIT NO. 2	EST. NET MBF VOL.			
1452	Douglas-fir	165	\$53.60	\$8,844.00	
13	western hemlock	2	\$33.00	\$66.00	
0	Port-Orford-cedar	0	\$0.00	\$0.00	
0	red alder	0	\$31.10	\$0.00	
<b>1465 TOTALS</b>		<b>167</b>			
			<b>5 Acres =</b>	<b>\$1,782.00 /Ac.</b>	
				<b>Unit Total</b>	<b>\$8,910.00</b>

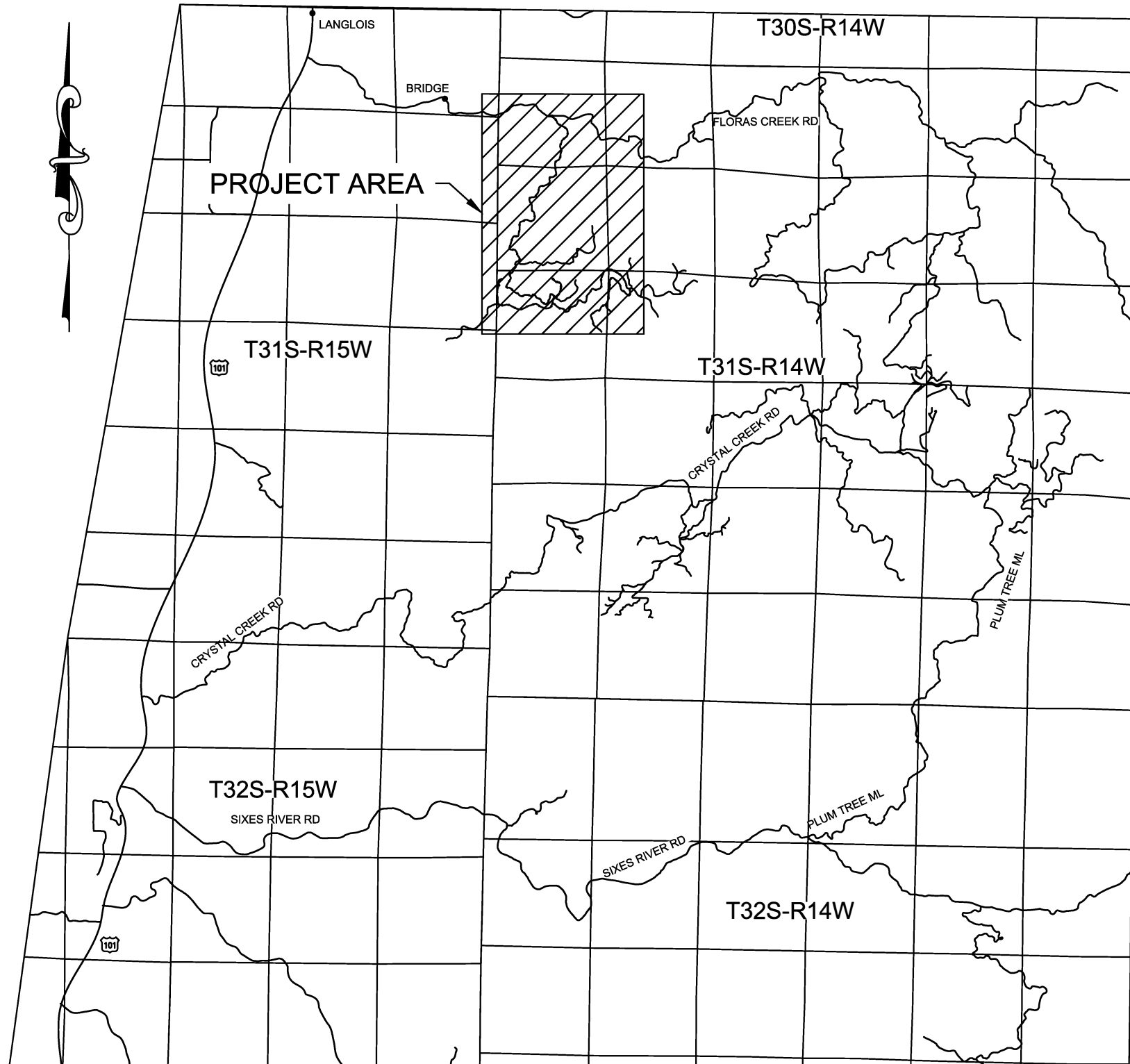
Approx. No. of Trees	UNIT NO. 3	EST. NET MBF VOL.			
660	Douglas-fir	147	\$53.60	\$7,879.20	
203	western hemlock	56	\$33.00	\$1,848.00	
0	Port-Orford-cedar	0	\$0.00	\$0.00	
130	red alder	9	\$31.10	\$279.90	
<b>993 TOTALS</b>		<b>212</b>			
			<b>4 Acres =</b>	<b>\$2,501.78 /Ac.</b>	
				<b>Unit Total</b>	<b>\$10,007.10</b>

Approx. No. of Trees	RW	EST. NET MBF VOL.			
200	Douglas-fir	51	\$53.60	\$2,733.60	
78	western hemlock	25	\$33.00	\$825.00	
0	Port-Orford-cedar	0	\$0.00	\$0.00	
84	red alder	5	\$31.10	\$155.50	
<b>362 TOTALS</b>		<b>81</b>			
			<b>3 Acres =</b>	<b>\$1,238.03 /Ac.</b>	
				<b>Unit Total</b>	<b>\$3,714.10</b>

EXHIBIT C  
 TIMBER SALE NAME: FIRST FLORAS RE-OFFER  
 TIMBER SALE NO. ORC00-TS-2017.0033

UNITED STATES DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

COOS BAY DISTRICT OFFICE  
 MYRTLEWOOD FIELD OFFICE



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1	TITLE SHEET
2-4	WORK LOCATION MAPS
5	TYPICAL CROSS SECTION DETAIL
6	CULVERT INSTALLATION DETAILS
7	CULVERT CONT. & ROADSIDE BRUSHING DETAIL
8	ESTIMATE OF QUANTITIES
9	SPECIAL PROVISIONS
10-17	SPECIAL DETAILS
18-20	CONSTRUCTION DETAILS
21-43	ROAD CONSTRUCTION SPECIFICATIONS

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

TITLE SHEET

DESIGNED G. ZARTMAN  
 REVIEWED J. VAN AGTMAEL  
 APPROVED G. ZARTMAN

DRAWN M. HEMMER SCALE NONE  
 DATE 07-16 SHEET 1 OF 43  
 DRAWING NO. FIRSTFLORAS.DWG



FLORAS CREEK ROAD

GATE & CATTLE GUARD MP 0.048

RIEBER

SABIN

MP 2.675 =  
MP 0.000

06

RIEBER

FLORAS CREEK ROAD

R 15 W

R 14 W

13

SABIN

GATE MP 0.736

31-14-6.0 Seg. A

SABIN

07

SEGMENT BREAK  
MP 1.360

BLM

DONALDSON,  
JOHN, & PAT  
TRSTEEES ETAL

SABIN

31-14-6.0  
Seg. B





31-14-7.0

LONE ROCK

LONE ROCK

LONE ROCK

### LEGEND

- RENOVATION 
- EXISTING ROAD 
- PROPERTY LINE 
- GATE 

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

TIMBER SALE: FIRST FLORAS RE-OFFER  
**WORK LOCATION MAP**

DESIGNED G. ZARTMAN

REVIEWED J. VAN AGTMAEL

APPROVED G. ZARTMAN

DRAWN M. HEMMER SCALE NONE

DATE 07-16 SHEET 2 OF 43

DRAWING NO. FIRSTFLORAS.DWG

ALWAYS  
THINK  
SAFETY



13

R 15 W

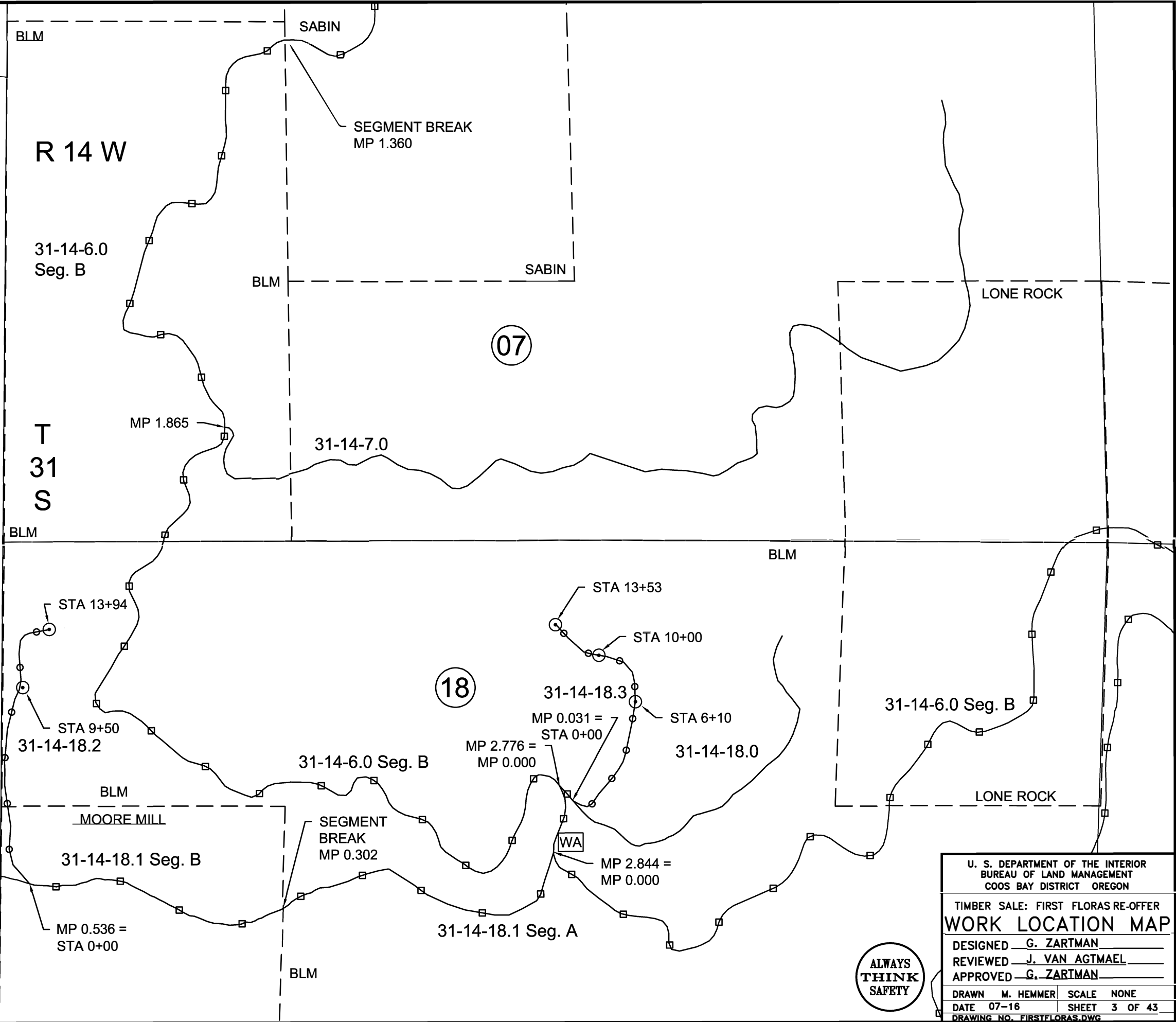
R 14 W

T  
31  
S

DONALDSON,  
JOHN, & PAT  
TRSTEES ETAL

**LEGEND**

- NEW CONSTRUCTION
- RENOVATION
- EXISTING ROAD
- PROPERTY LINE
- PURCHASER SELECT LANDING
- NEW CONSTRUCTION LANDING
- GATE
- WASTE AREA



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

TIMBER SALE: FIRST FLORAS RE-OFFER  
**WORK LOCATION MAP**

DESIGNED G. ZARTMAN  
REVIEWED J. VAN AGTMAEL  
APPROVED G. ZARTMAN

DRAWN M. HEMMER SCALE NONE  
DATE 07-16 SHEET 3 OF 43  
DRAWING NO. FIRSTFLORAS.DWG

ALWAYS  
THINK  
SAFETY



R 14 W

SABIN

07

08

LONE ROCK

BLM

BLM

LONE ROCK

BLM

T  
31  
S

STA. 13+53

STA. 10+00

STA. 6+10

31-14-18.3

31-14-18.0

31-14-6.0 Seg. B

MP 3.948 =  
MP 0.000

31-14-17.0

31-14-17.3

LONE ROCK

BLM

MP 2.844 =  
MP 0.000

MP 0.612 =  
MP 0.000

31-14-18.1 Seg. A

18

31-14-17.5

17

MP 0.255

BLM







BLM

BLM

MOORE MILL

MOORE MILL

### LEGEND

- NEW CONSTRUCTION 
- RENOVATION 
- EXISTING ROAD 
- PROPERTY LINE 
- PURCHASER SELECT LANDING 
- NEW CONSTRUCTION LANDING 

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TIMBER SALE: FIRST FLORAS RE-OFFER	
<b>WORK LOCATION MAP</b>	
DESIGNED	G. ZARTMAN
REVIEWED	J. VAN AGTMAEL
APPROVED	G. ZARTMAN
DRAWN	M. HEMMER
DATE	07-16
SCALE	NONE
SHEET	4 OF 43
DRAWING NO. FIRSTFLORAS.DWG	

ALWAYS  
THINK  
SAFETY

**NOTES**

ROAD NUMBER	FROM MILEPOST	TO MILEPOST	LENGTH MILES	TYPICAL SECTION TYPE	ROAD WIDTH		CLEARING WIDTH		BRUSHING WIDTH		SURFACING				REMARKS
					SUBGRADE	DITCH	BEYOND		EXISTING ROADS		SURFACE COURSE				
							TOP CUT	TOE FILL	L	R	MIN. TOP DEPTH	COMP. DEPTH	TYPE	GRADING	
31-14-6.0 A	0.000	1.360	1.360	4	16'	2'			10	10					2% CROWNED W/ DITCH
31-14-6.0 B	1.360	3.948	2.588	4	16'	2'			10	10	12'	3"	D	1.5"-0"	2% CROWNED W/ DITCH
31-14-17.3	0.000	0.612	0.612	4	16'	2'			10	10					2% CROWNED W/ DITCH
31-14-17.5	0.000	0.255	0.255	4	16'	2'			10	10					2% CROWNED W/ DITCH
31-14-18.0	0.000	0.031	0.031	4	16'	2'			10	10					2% CROWNED W/ DITCH
31-14-18.1 A	0.000	0.302	0.302	1	14'		10	5							4% OUTSLOPED
31-14-18.1 B	0.302	0.536	0.234	1	14'		10	5							4% OUTSLOPED
31-14-18.2	0.000	0.264	0.264	1	14'		10	5							4% OUTSLOPED
31-14-18.3	0.000	0.256	0.256	1	14'		10	5							4% OUTSLOPED

- ① **EXTRA SUBGRADE WIDTHS**  
**FILL WIDENING:**
- 1 FT TO SHOULDER WIDTH FOR FILLS 1-6 FT IN HEIGHT
  - 2 FT OF SHOULDER WIDTH FOR FILLS 6-10 FT IN HEIGHT
  - 3 FT OF SHOULDER WIDTH FOR FILLS > 10 FT IN HEIGHT
- CURVE WIDENING:** ADD ADDITIONAL SURFACING WIDTH TO INSIDE OF CURVE FOR CURVE WIDENING AS SHOWN ON THE PLANS OR AS FOLLOWS:
- ADD 4 FT FOR CURVES 90'-120' RADIUS
  - ADD 5 FT FOR CURVES 60'-90' RADIUS

- ② **CUT AND FILL SLOPES**  
 CUT AND FILL SLOPES WILL BE AS FOLLOWS BY MATERIAL TYPE AND ALSO AS SHOWN ON THE PLANS & SPECIFICATIONS:
- | MATERIALS         | CUT SLOPES | FILL SLOPES |
|-------------------|------------|-------------|
| COMMON            | 3/4:1      | 1 1/2:1     |
| SOFT ROCK & SHALE | 1/2:1      | 1 1/2:1     |
| SOLID ROCK        | 1/4:1      | REPOSE      |

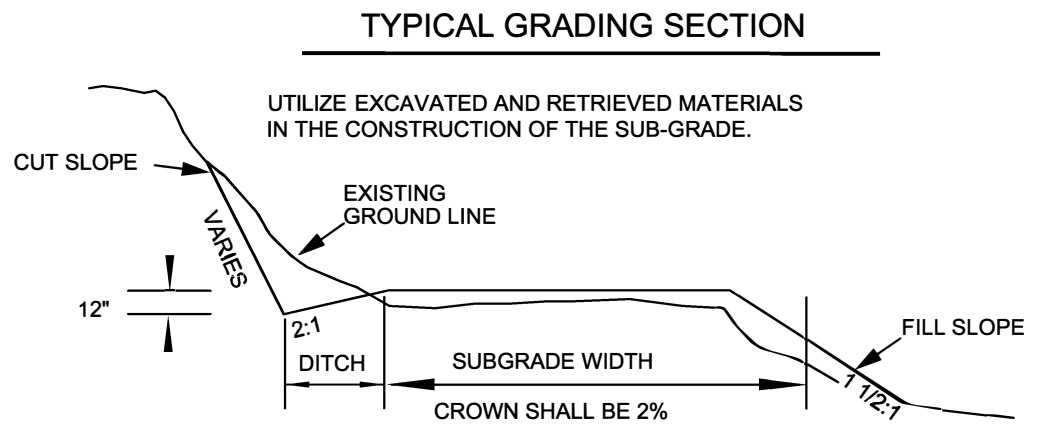
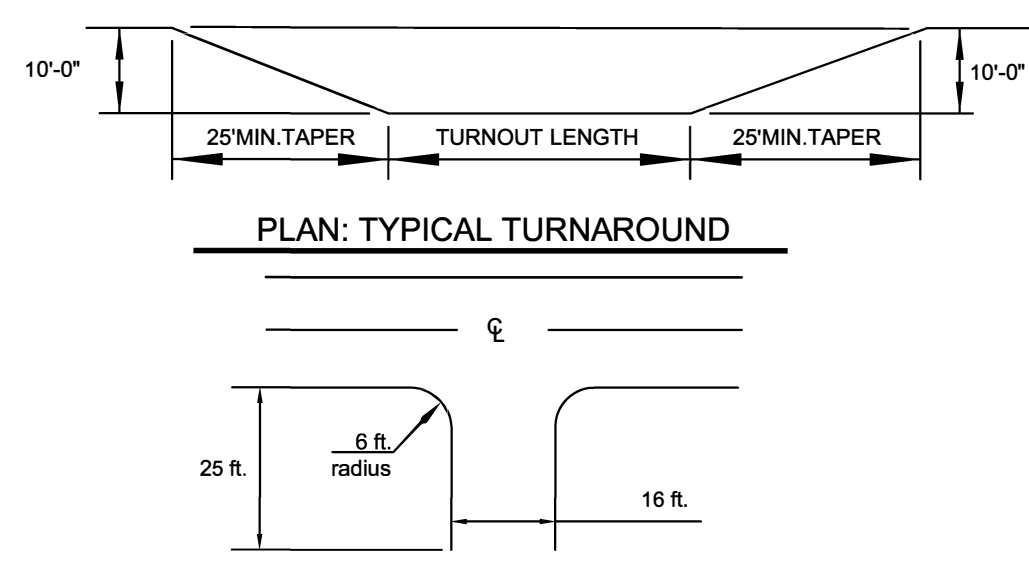
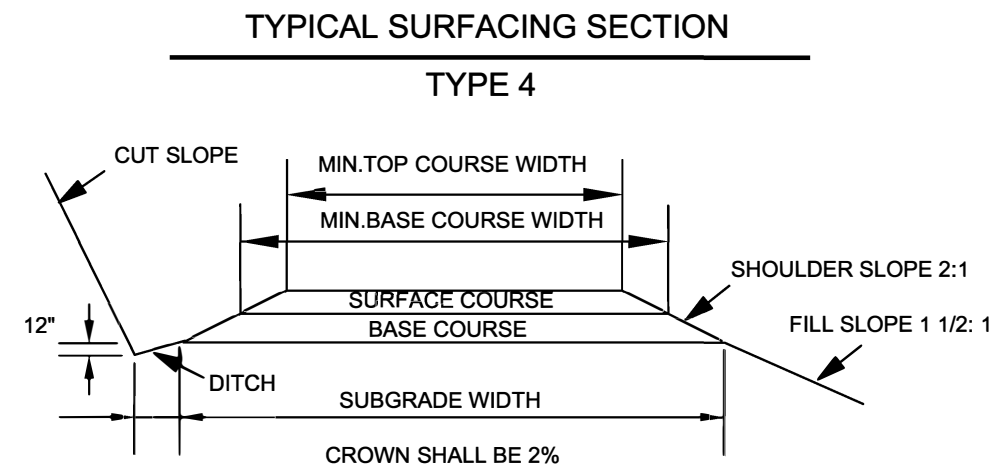
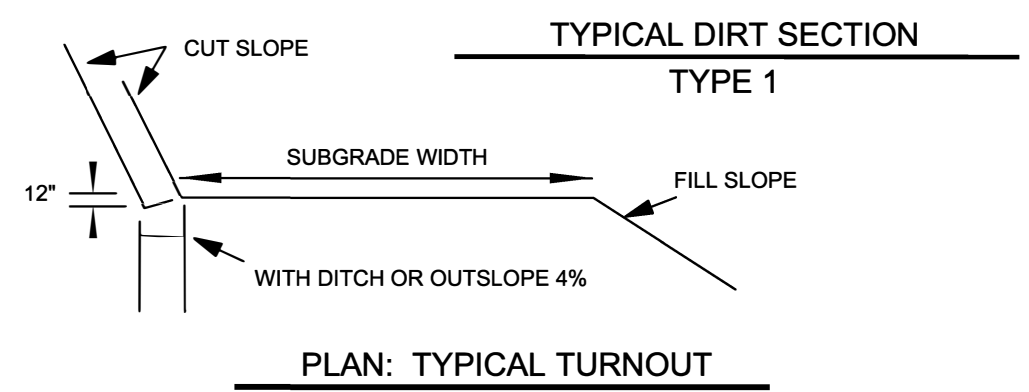
- ③ **FULL BENCH**  
 FULL BENCH CONSTRUCTION IS REQUIRED ON ALL SLOPES EXCEEDING 60% UNLESS OTHERWISE SHOWN ON THE PLANS.

- ④ **SURFACING TYPE**
- PIT RUN ROCK MATERIAL
  - GRID ROLLED ROCK MATERIAL
  - SCREENED ROCK MATERIAL
  - CRUSHED ROCK MATERIAL

- ⑤ **SURFACING**  
 TURNOUTS, CURVE WIDENING AND ROAD APPROACH APRONS SHALL BE SURFACED.

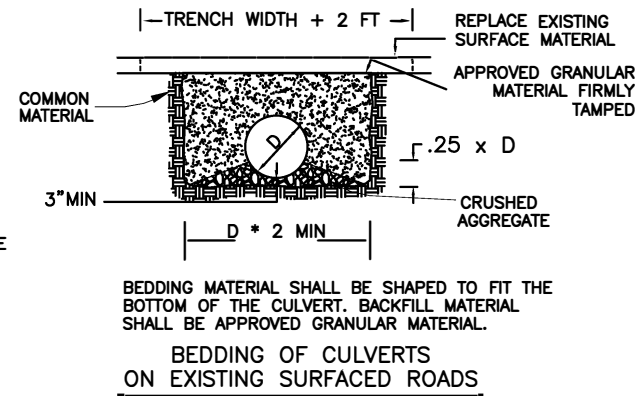
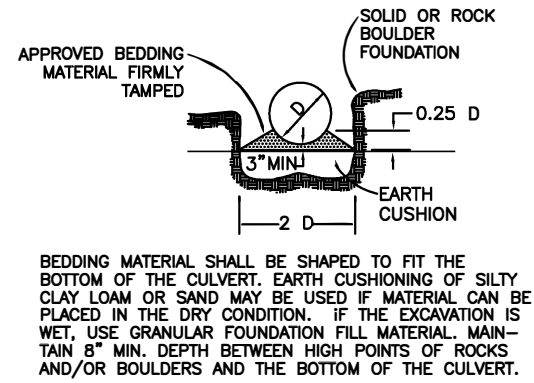
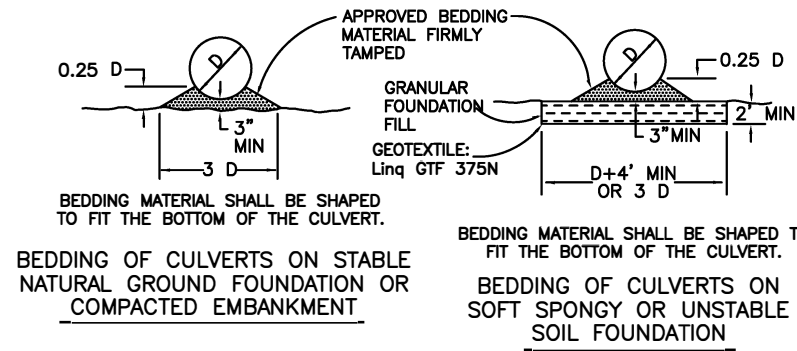
- ⑥ **DITCHES**  
 2:1 INSLOPE FROM ROAD SUBGRADE. DITCH OUTSLOPE WILL BE AS SPECIFIED IN NOTE 2 ABOVE.

- ⑦ **TURNOUTS**
- WIDTH 10 FT. IN ADDITION TO SUBGRADE WIDTH, OR AS SHOWN ON THE PLANS
  - LOCATED APPROXIMATELY AS SHOWN ON THE PLANS

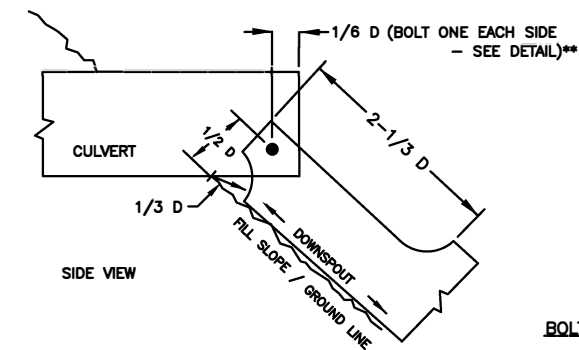


U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TIMBER SALE: FIRST FLORAS RE-OFFER	
<b>TYPICAL SECTIONS DETAILS</b>	
DESIGNED	G. ZARTMAN
REVIEWED	J. VAN AGTMAEL
APPROVED	G. ZARTMAN
DRAWN	M. HEMMER
DATE	07-16
SCALE	NONE
SHEET	5 OF 43
DRAWING NO. FIRSTFLORAS.DWG	

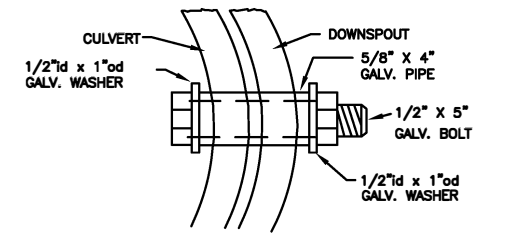
**BEDDING OF CULVERTS**



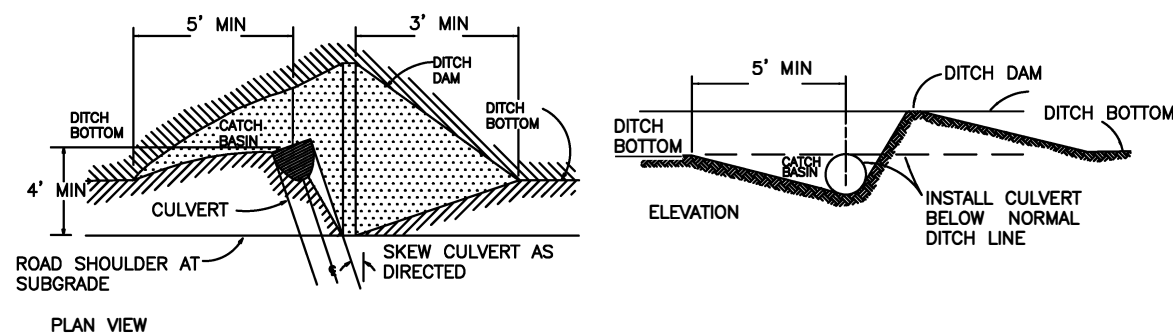
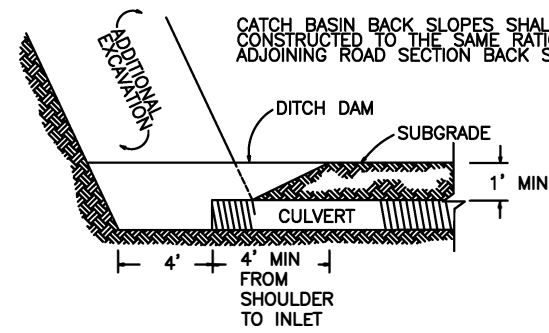
**USE "ADJUSTABLE ELBOW" FOR CPE AND CMP DOWNSPOUTS**



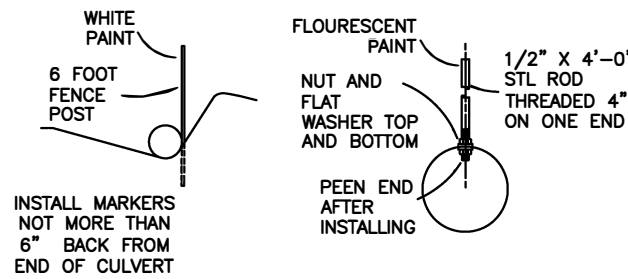
**BOLT ASSEMBLY DETAIL\*\***



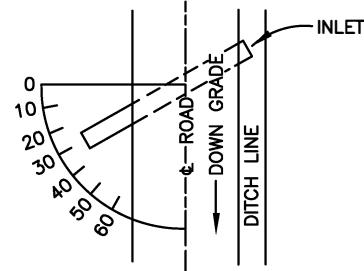
★ NOTE: ANCHOR DOWNSPOUTS ACCORDING TO SECTION 407b OF THE ROAD CONSTRUCTION SPECIFICATIONS



**CATCH BASIN**



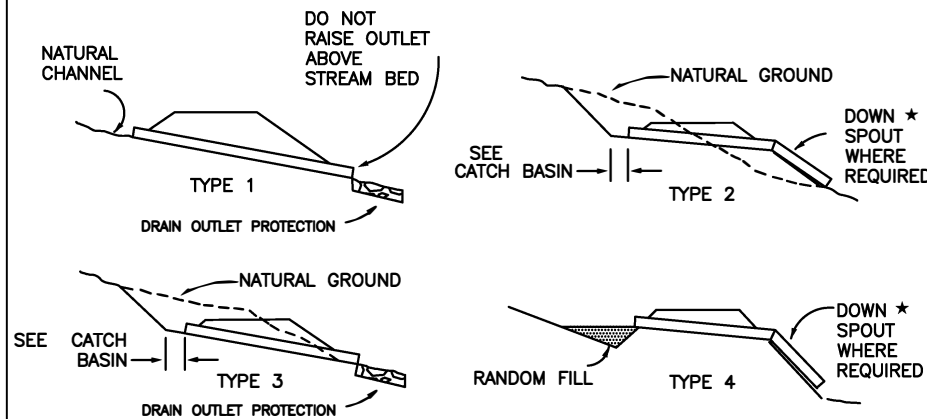
**CULVERT MARKERS**



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

BANDS SHALL MEET MANUFACTURER'S SPECIFICATIONS

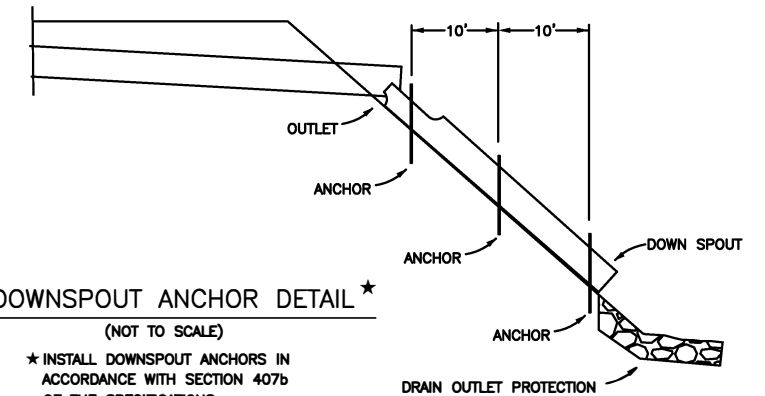
**CULVERT INSTALLATION TYPES**



**DOWNSPOUT ANCHOR DETAIL ★**

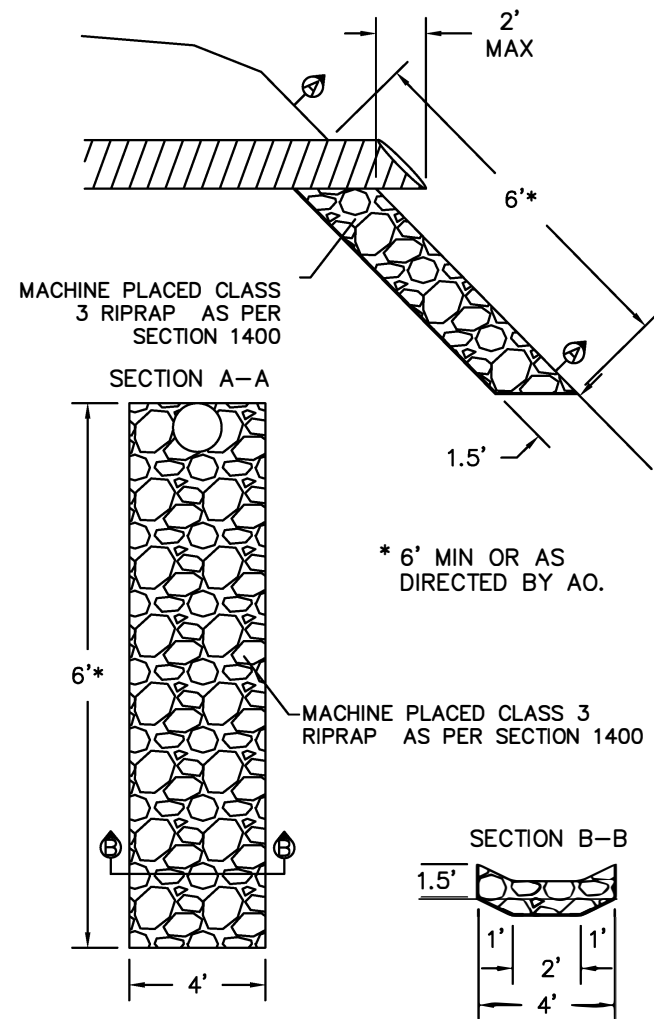
(NOT TO SCALE)

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

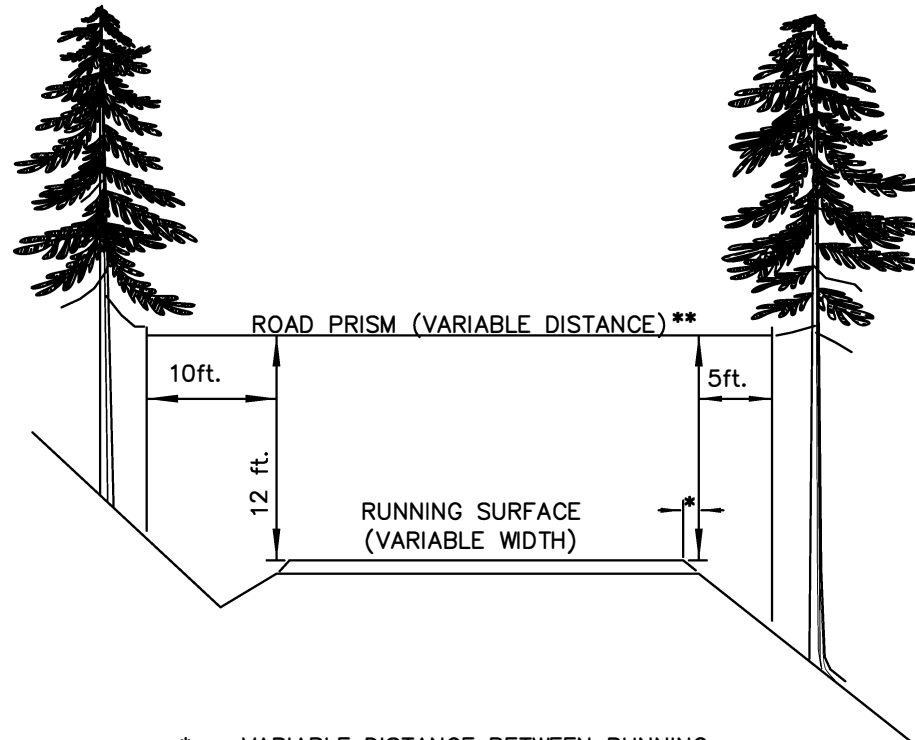


U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TIMBER SALE: FIRST FLORASRE-OFFER CULVERT INSTALLATION DETAILS	
DESIGNED	G. ZARTMAN
REVIEWED	J. VAN AGTMAEL
APPROVED	G. ZARTMAN
DRAWN	M. HEMMER
DATE	07-16
SCALE	NONE
SHEET	6 OF 43
DRAWING NO.	FIRSTFLORAS.DWG

CROSS DRAIN OUTLET PROTECTION DETAIL



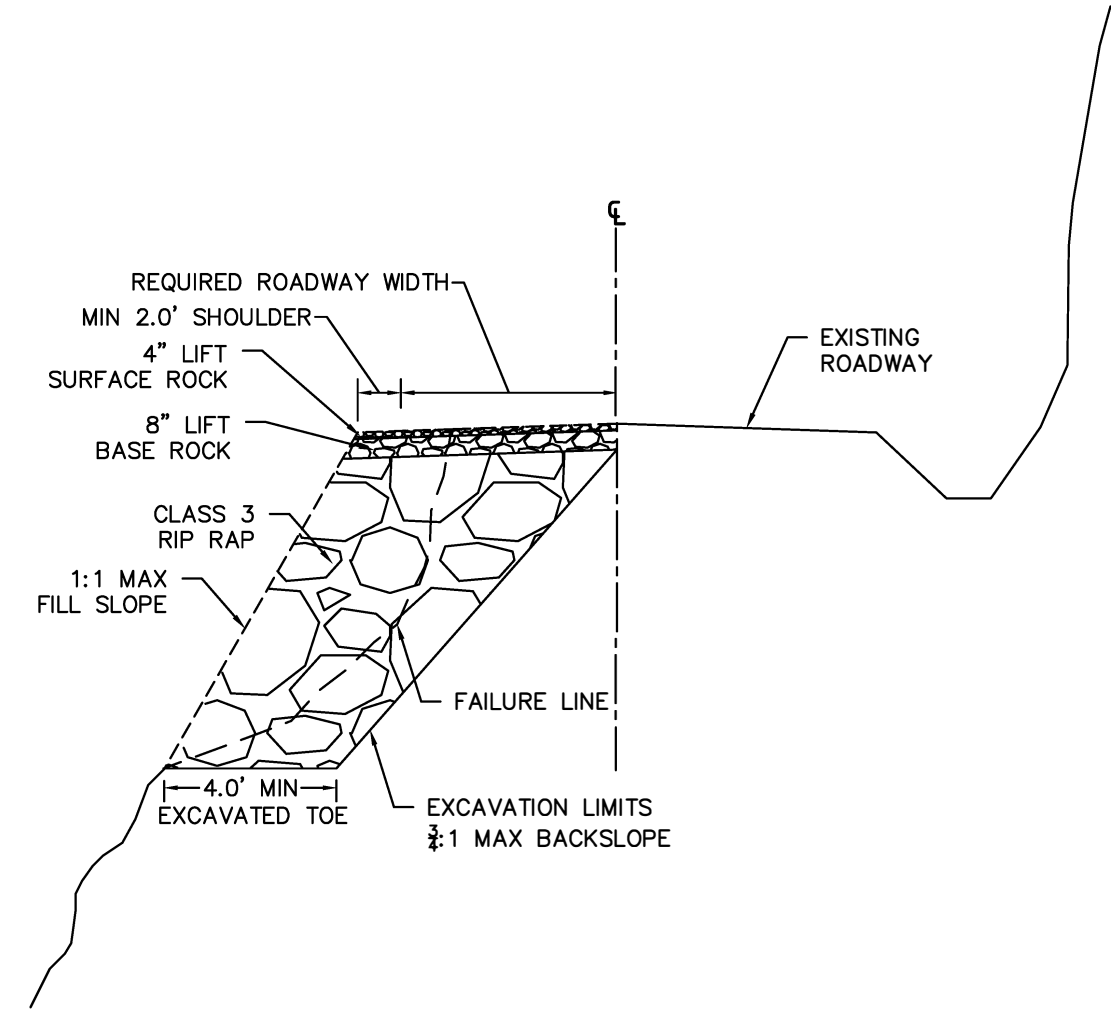
ROADSIDE BRUSHING DIAGRAM



- \* 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 OVER-HANGING LIMBS AND BRANCHES 12 FEET IN ELEVATION ABOVE THE RUNNING SURFACE.

SHOULDER FAILURE REPAIR DETAIL

BLM ROAD NO. 31-14-6.0 B @  
MP 3.192



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TIMBER SALE: FIRST FLORAS RE-OFFER	
ROAD BRUSHING DIAGRAM	
DESIGNED	G. ZARTMAN
REVIEWED	J. VAN AGTMAEL
APPROVED	G. ZARTMAN
DRAWN	M. HEMMER
SCALE	NONE
DATE	07-16
SHEET	7 OF 43
DRAWING NO. FIRSTFLORAS.DWG	

ROAD NUMBER	NEW CONSTRUCTION	RENOVATION	CLEARING & GRUBBING	ROADSIDE BRUSHING	EARTHWORK (DESIGNED) 3							SURFACING 3			CPP 1		OTHER		SEEDING
					COMMON	RIPPABLE ROCK	FILL	WASTE AREA	MATERIAL DRIFTED 100-500'	SHORT HAUL 100-500'	LONG HAUL >500'	3"-0" BASE ROCK ROADWAY	1.5"-0" SURFACE ROCK ROADWAY	1.5"-0" SPOT ROCK	18"	MARKERS	RIPRAP 2, 4	1.5"-0" CULVERT BEDDING ROCK 3	SEED, FERTILIZE & MULCH (DRY)
SECTION NO.	300	500	200	2100	300	300	300	300	300	300	300	1000	1200	1200	400	400	1400	400/1200	1800
UNITS	STA	STA	AC	AC	CY	CY	CY	CY	STA-YD	STA-YD	YD-MI	CY	CY	CY	LF	EA	CY	CY	AC
31-14-6.0 A, B		208.46	0.3	7.9								6 (A)	3 (C)	200 (C)	240	29	100 (3)	80 (C)	1.1
31-14-17.3		32.31		1.5										20 (C)		5			0.3
31-14-17.5		13.46		0.9															0.3
31-14-18.0		1.64		0.1															
31-14-18.1 A, B		28.31	1.3		29 HRS CAT TIME														2.3
31-14-18.2	13.94		1.4		19 HRS CAT TIME														1.4
31-14-18.3	13.53		1.3		20 HRS CAT TIME														1.3
Totals:	27.47	284.18	4.3	10.4								6	3	220	240	34	100	80	6.7

- 1 CPP - CORRUGATED POLYETHYLENE PIPE
- 2 SEE DOWNSPOUT INSTALLATION SHEET
- 3 VOLUMES ARE TRUCK (LOOSE) CUBIC YARDS
- 4 10 CY (CLASS 3) SHOULDER REPAIR @ MP 1.214  
40 CY (CLASS 3) CULVERT EROSION CONTROL 8 @ 5 CY EA  
50 CY (CLASS 3) SHOULDER REPAIR @ MP 3.192

SECTION	GRADE	SIZE
400/1200	(C)	1.5"-0"
700	(PR)	PITRUN
900	(DR)	3"-1"
1000	(A)	3"-0"
1200	(C)	1.5"-0"
1400	(3)	Class 3
1400	(5)	Class 5

GRADE INDICATED IN CIRCLE ○



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

TIMBER SALE: FIRST FLORAS RE-OFFER  
ESTIMATE OF QUANTITIES

DESIGNED—G. ZARTMAN  
REVIEWED—J. VAN AGTMAEL  
APPROVED—G. ZARTMAN

DRAWN M. HEMMER SCALE NONE  
DATE 07-16 SHEET 8 OF 43  
DRAWING NO. FIRSTFLORAS.DWG

SPECIAL PROVISIONS

Purchaser Responsibility

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

Restrictions

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

BLM Road No. 31-14-18.1 A is subject to a Seasonal Restriction (NSO & MM) that prohibits road renovation and hauling in the period between March 1 and August 5, both days inclusive. In addition, a daily timing restriction confines road renovation and hauling to the period from two hours after sunrise to two hours before sunset between August 6 and September 15, both days inclusive. Please see Sec. 42.b.(4) and the Exhibit A of the timber sale contract.

Over-wintering

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

SPECIAL DETAILS RENOVATION OF  
PRIVATE ROAD NO. 31-14-6.0 A  
MP 0.000 to MP 1.360

<u>Milepost</u>	<u>Remarks</u>
General	<p>Road is to be renovated to comply with type 4 standard roadway detail, Sheet 5. This renovation work includes:</p> <ul style="list-style-type: none"><li>• Grade and compact roadway surface to establish crowned section per the standard detail.</li><li>• Clean ditchlines, culvert catch basins, and culvert outlets.</li><li>• Brush roadway 10' both sides of road travel way. Protect reproduction from damage.</li></ul> <p>Apply 100 CY of 1 ½" minus aggregate surfacing spot rock as directed by the Authorized Officer.</p> <p>Apply seed, fertilizer, and mulch on all exposed soils and disturbed areas.</p> <p>All work shall be completed in accordance with Sections 500, 600, 1200, 1700, 1800, and 2100 of the Road Construction Specifications.</p>
0.000	<p>Junction with CR124 Floras Creek Road at MP 2.675. Purchaser shall take necessary measures to protect pavement surfacing from damage during use of the junction. Any damage to pavement surfacing at the junction shall be repaired by the purchaser. The Authorized Officer will inspect the junction at the conclusion of timber sale activities to verify that the junction condition has been maintained and any necessary repairs made.</p>
0.048	<p>Cattle guard and wire/metal gate. Purchaser shall maintain condition of the cattle guard and gate and take measures to protect the cattle guard from damage during use of the road. Purchaser shall not remove the cattle guard or place material over the cattle guard to prevent it from functioning as a cattle guard. The Authorized Officer will inspect the cattle guard and gate at the conclusion of timber sale activities to verify that the condition of these structures have been maintained and any necessary repairs made.</p>
0.203	<p>Private driveway left and right. Purchaser shall not block or otherwise restrict ingress/egress of the driveway.</p>
0.216	<p>Junction left.</p>
0.736	<p>Metal Gate. Purchaser shall maintain condition of the gate guard and take measures to protect the gate from damage during use of the road. The Authorized Officer will inspect the gate at the conclusion of timber sale activities to verify that the condition of the gate has been maintained and any necessary repairs made.</p>
0.897	<p>Junction right.</p>
1.104	<p>Turnout Left</p>
1.173	<p>Turnout Right.</p>
1.214	<p>3 ft. width shoulder failure right. Machine place 10 CY of class 3 riprap to repair shoulder failure right.</p>
1.360	<p>Property Line. End renovation of Segment A, begin renovation of BLM Road No. 31-14-6.0 B.</p>

SPECIAL DETAILS RENOVATION OF  
BLM ROAD NO. 31-14-6.0 B  
MP 1.360 to MP 3.948

<u>Milepost</u>	<u>Remarks</u>
General	<p>Road is to be renovated to comply with type 4 standard roadway detail, Sheet 5. This renovation work includes:</p> <ul style="list-style-type: none"><li>• Scarify, grade, and compact roadway surface to re-establish crowned section per the standard detail.</li><li>• Clean/re-establish ditchlines, culvert catch basins, and culvert outlets.</li><li>• Brush roadway 10' both sides of road travel way.</li></ul> <p>Apply 100 CY of 1 ½" minus aggregate surfacing spot rock as directed by the Authorized Officer.</p> <p>All excavated material from the re-establishing of ditchlines shall be bunched and end-hauled to the designated waste areas. Waste areas shall be shaped to drain. Apply seed, fertilizer, and mulch on all exposed soils and disturbed areas including waste areas. All existing culverts removed during road renovation shall be removed from government property and disposed of in a legal manner.</p> <p>All work shall be completed in accordance with Sections 400, 500, 600, 1000, 1200, 1400, 1700, 1800, and 2100 of the Road Construction Specifications.</p>
1.360	Property Line. Begin Segment B.
1.472	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
1.580	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
1.649	Replace existing 18" CMP with 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.
1.718	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
1.742	Existing 24" CPP. Clean culvert catch basin. Install inlet marker.
1.786	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
1.865	Junction Private Road No. 31-14-7.0 left.
1.919	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
1.998	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
2.041	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
2.180	Existing 24" CMP stream culvert.
2.208	Install new 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.



- 2.273 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 2.407 Replace existing 18" CMP with 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.
- 2.509 Replace existing 18" CMP with 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.
- 2.616 Replace existing 18" CMP with 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.
- 2.721 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 2.884 Junction, renovate BLM Road No. 31-14-18.0 left.
- 2.869 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 2.884 Junction, renovate BLM Road No. 31-14-18.1 A right. Construct waste area left.
- 3.052 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 3.119 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 3.173 Replace existing 18" CMP with 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.
- 3.192 Shoulder failure left. Excavate approximately 30 CY of existing subgrade to centerline of existing roadway. Haul excess excavation to the waste area designated at MP 2.884. Establish a minimum 4' width toe at base of shoulder failure and then reconstruction subgrade with 50 CY of class 3 riprap. Excavated toe must be approved by the Authorized Officer prior to placement of riprap. Cap riprap with 8" lift of 3" minus aggregate base rock and 4" lift of 1 ½" minus aggregate surface rock conforming to Sections 1000 and 1200 of the Road Construction Specifications. See Shoulder Failure Repair Detail, Sheet 7 of Exhibit C. Establish temporary barrier during construction as directed by the Authorized Officer.
- 3.214 Existing 24" CPP. Clean culvert inlet. Install inlet marker.
- 3.306 Existing 18" CMP. Clean culvert catch basin. Repair crushed inlet. Install inlet marker.
- 3.423 Existing 18" CMP. Clean culvert catch basin.
- 3.446 Replace existing 18" CMP with 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.
- 3.515 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 3.565 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 3.662 Replace existing 18" CMP with 18" x 30' CPP culvert and construct catch basin. Utilize 10 CY of 1 ½" minus bedding, backfill, and surfacing rock. Place 5 CY of Class 3 rip rap at outlet for erosion control and energy dissipation. Install inlet marker.

- 3.709 Existing 18" CMP. Clean culvert catch basin. Repair crushed inlet & outlet. Install inlet marker.
- 3.789 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 3.859 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 3.904 Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
- 3.948 Junction with BLM Road No. 31-14-17.3 right. End renovation.

SPECIAL DETAILS RENOVATION OF  
BLM ROAD NO. 31-14-17.3  
MP 0.000 to MP 0.612

<u>Milepost</u>	<u>Remarks</u>
General	<p>Road is to be renovated to comply with type 4 standard roadway detail, Sheet 5. This renovation work includes:</p> <ul style="list-style-type: none"><li>• Scarify, grade, and compact roadway surface to re-establish crowned section per the standard detail.</li><li>• Clean/re-establish ditchlines, culvert catch basins, and culvert outlets.</li><li>• Brush roadway 10' both sides of road travel way.</li></ul> <p>All excavated material from the re-establishing of ditchlines shall be bunched and end-hauled to the designated waste areas. Waste areas shall be shaped to drain. Apply seed, fertilizer, and mulch on all exposed soils and disturbed areas including waste areas.</p> <p>Apply 20 CY of 1 ½" minus aggregate surfacing spot rock as directed by the Authorized Officer.</p> <p>All work shall be completed in accordance with Sections 400, 500, 600, 1200, 1700, 1800, and 2100 of the Road Construction Specifications.</p>
0.000	Junction with BLM Road No. 31-14-6.0B at MP 3.948. Begin renovation. Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
0.047	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
0.180	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
0.247	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
0.298	Existing 18" CMP. Clean culvert catch basin. Install inlet marker.
0.612	Junction with Moore Mill Road No. 31-14-17.5 right. End renovation.

SPECIAL DETAILS RENOVATION OF  
MOORE MILL ROAD NO. 31-14-17.5  
Milepost 0.000 to Milepost 0.255

<u>Milepost</u>	<u>Remarks</u>
General	<p>Road is to be renovated to comply with type 4 standard roadway detail, Sheet 5. This renovation work includes:</p> <ul style="list-style-type: none"><li>• Scarify, grade, and compact roadway surface to re-establish crowned section per the standard detail.</li><li>• Clean/re-establish ditchlines, culvert catch basins, and culvert outlets.</li><li>• Brush roadway 10' both sides of road travel way.</li></ul> <p>All excavated material from the re-establishing of ditchlines shall be bunched and end-hauled to the designated waste areas. Waste areas shall be shaped to drain. Apply seed, fertilizer, and mulch on all exposed soils and disturbed areas including waste areas.</p> <p>All work shall be completed in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Road Construction Specifications.</p>
0.000	Junction with BLM Road No. 31-14-17.3 at MP 0.612. Begin renovation. Grade subgrade and re-establish ditchlines and ditchouts. End haul unsuitable material to the designated waste areas.
0.255	Construct roadside landing right. End renovation.

SPECIAL DETAILS RENOVATION OF  
BLM ROAD NO. 31-14-18.0  
MP 0.000 to MP 0.031

<u>Milepost</u>	<u>Remarks</u>
General	<p>Road is to be renovated to comply with type 4 standard roadway detail, Sheet 5. This renovation work includes:</p> <ul style="list-style-type: none"><li>• Scarify, grade, and compact roadway surface to re-establish crowned section per the standard detail.</li><li>• Clean ditchlines,</li><li>• Brush roadway 10' both sides of road travel way.</li></ul> <p>Apply seed, fertilizer, and mulch on all exposed soils and disturbed areas including waste areas.</p> <p>All work shall be completed in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Road Construction Specifications.</p>
0.000	Junction with BLM Road No. 31-14-6.0 B at MP 2.776. Begin renovation.
0.031	Junction, construct Road No. 31-14-18.3 left. End renovation.

SPECIAL DETAILS RENOVATION OF  
BLM ROAD NO. 31-14-18.1 A (ROAD NAME 09-1)  
MP 0.000 to MP 0.302

<u>Milepost</u>	<u>Remarks</u>
General	<p>Road is to be renovated, re-constructed, and re-aligned to establish roadway per type 1 standard detail on Sheet No 5. This work will include:</p> <p>Clearing and Grubbing: Roadway will be cleared within the posted and painted right-of-way clearing limits and grubbed per the standard specifications. All excavated material shall be utilized within the subgrade or end-hauled to the designated waste areas.</p> <p>Reconstruct roadway prism as shown on the plans:</p> <ul style="list-style-type: none"><li>• Out-sloped 14' width subgrade.</li><li>• Cut slopes shall be 3/4H:1V and the fill slopes shall be 1 1/2H:1V.</li><li>• 60 feet minimum radius horizontal curves with curve widening.</li><li>• Maximum road grade shall be 15% adverse and 15% favorable.</li></ul> <p>Apply seed, fertilizer, and mulch on all disturbed and exposed soils including the road surface.</p> <p>All work shall be completed in accordance with Sections 200, 300, 500, 1700, and 1800 of the Road Construction Specifications.</p>
0.000	Junction with BLM Road No. 31-14-6.0 B at MP 2.770. Begin clearing, grubbing, re-constructing and renovating subgrade.
0.124	Begin approximately 5' right subgrade re-alignment. Do not disturb or damage wildlife trees left of the posted and painted right-of-way boundary.
0.150	End re-alignment and re-construction of road subgrade. Continue renovation.
0.302	Property line, End Segment A. Leave BLM and enter Moore Mill. Survey monument bearing tree approximately 12' right. Purchaser will protect and maintain bearing tree and survey monument.

SPECIAL DETAILS RENOVATION OF  
MOORE MILL ROAD NO. 31-14-18.1 B (ROAD NAME 09-1)  
MP 0.302 to MP 0.536

Milepost  
General

Remarks

Road is to be renovated to establish roadway per type 1 standard detail on Sheet No 5. This work will include:

Clearing and Grubbing: Roadway will be cleared within the posted and painted right-of-way clearing limits and grubbed per the standard specifications. All excavated material shall be utilized within the subgrade or end-hauled to the designated waste areas.

Renovate roadway prism as shown on the plans:

- Out-sloped 14' width subgrade.
- Cut slopes shall be 3/4H:1V and the fill slopes shall be 1 1/2H:1V.
- 60 feet minimum radius horizontal curves with curve widening.
- Maximum road grade shall be 15% adverse and 15% favorable.

Apply seed, fertilizer, and mulch on all disturbed and exposed soils including the road surface.

All work shall be completed in accordance with Sections 200, 300, 500, 1700, and 1800 of the Road Construction Specifications.

0.302 Property line, Begin Segment B. Leave BLM and enter Moore Mill. Survey monument bearing tree approximately 12' right. Purchaser will protect and maintain bearing tree and survey monument.

0.536 Junction, construct BLM Road No. 31-14-18.2 right. End renovation.

CONSTRUCTION DETAIL SHEET  
BLM ROAD NO. 31-14-18.2 (ROAD NAME 09-2)

GENERAL

Purchaser shall construct BLM Road No. 31-14-18.2 from Sta. 0+00 to Sta. 13+94 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Sheet No. 5 (14' subgrade, outslope), type 1 standard detail. Cut slopes shall be 3/4H:1V and the fill slopes shall be 1 1/2H:1V, or as shown on the plans.

TURNOUTS

Construct at turnout left at Sta. 0+25 and turnout right at Sta. 9+50, per the standard details.

SUBGRADE

The subgrade shall be excavated and compacted in accordance with the Sections 200 and 300 of the Road Construction Specifications. All excavated material shall be utilized as fill in the subgrade. Maximum Fill depth is 4' at road centerline and Maximum Cut depth is 4' at road centerline.

DRAINAGE FEATURES

4% outslope to achieve drainage.

SURFACING

None.

ALIGNMENT

Roadway shall be constructed within posted and painted right-of-way boundaries. Minimum curve radius shall be eighty (80) feet.

Sta. 0+00: Junction with Moore Mill Road No. 31-14-18.1 B at MP 0.536.

Sta. 3+71: Property line. Leave Moore Mill and enter BLM. Cut and remove 26" dbh. Douglas-fir Bearing Tree. Survey monument (brass cap) approximately 30 feet left. Purchaser shall protect and preserve survey monument.

GRADE

Grade shall not exceed 14% favorable and 12% adverse.

LANDINGS

Construct roadside landing right at Sta. 9+50. Landings shall be approximately 60ft in length with 25ft straight line tapers to standard roadway section at either end of landing. Landing width shall be not less than 35ft width and not more than 60ft width. Grade through landing shall not exceed 5%.

Construct end landing (60ft diameter) at Sta. 13+94. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

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



CONSTRUCTION DETAIL SHEET  
BLM ROAD NO. 31-14-18.3 (ROAD NAME 11-2)

GENERAL

Purchaser shall construct BLM Road No. 31-14-18.3 from Sta. 0+00 to Sta. 13+53 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Sheet No. 5 (14' subgrade, outslope), type 1 standard detail. Cut slopes shall be 3/4H:1V and the fill slopes shall be 1 1/2H:1V, or as shown on the plans.

TURNOUTS

Truck turnouts and turnarounds are provided by way of the junction with BLM Road No. 31-14-18.0, landings at Sta. 6+10, 10+00, and 13+53 (road terminus).

SUBGRADE

The subgrade shall be excavated and compacted in accordance with the Sections 200 and 300 of the Road Construction Specifications. All excavated material shall be utilized as fill in the subgrade. Maximum Fill depth is 4' at road centerline and Maximum Cut depth is 4' at road centerline.

DRAINAGE FEATURES

4% outslope to achieve drainage.

SURFACING

None.

ALIGNMENT

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

Sta. 0+00: Junction with BLM Road No. 31-14-18.0 at MP 0.031.

GRADE

Grade shall not exceed 16% adverse. No favorable grades are planned.

LANDINGS

Construct roadside landings at Sta. 6+10, 10+00, and end landing (60ft diameter) at Sta. 13+53. Grade of roadside landings shall not exceed 10% and grade of end landing shall not exceed 5%.

SOIL STABILIZATION

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

ROAD CONSTRUCTION SPECIFICATIONS

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

Section

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

GENERAL - 100

101 - Pre-work Conference(s):

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

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

102 - Definitions:

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. 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, pitrun rock, bank or river-run gravels, etc., to provide support and, in the event no surface course is placed, the running surface for traffic load.

BLM - Bureau of Land Management

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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 - Longitudinal center of 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.

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 maximum density of soil. Method A - 4" mold, soil passing a No. 4 Sieve. 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 19.00 mm (3/4 inches) sieve. 56 blows/layer & 5 layers.
<u>AASHTO T 176</u>	Shows relative portions of fine dust or clay-like materials in soil or graded aggregate.
<u>AASHTO T 180</u>	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop.
<u>AASHTO T 191</u>	<u>Sand Cone</u> . Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
<u>AASHTO T 205</u>	<u>Rubber balloon</u> . Density of soil in place. Use for compacted or firmly bonded soil.
<u>AASHTO T 210</u>	Durability of aggregates based on resistance to produce fines.
<u>AASHTO T 224</u>	Correction for coarse particles in the soil.
<u>AASHTO T 238</u>	Determination of density of soil and soil-aggregates in place by nuclear methods.
<u>AASHTO T 248</u>	Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
<u>DES. E-12</u>	Determination of relative density of cohesionless soils.

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

103 - Compaction equipment shall meet the following requirements:

103b - Sheepfoot roller. A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7 inches from the face of the drums.

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

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.

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 at a speed of at least 4 miles per hour.

103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

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

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

#### CLEARING AND GRUBBING - 200

201 - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections as shown on the plans.

- 202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 and as shown on the plans.
- 203a - Brush under 2 feet in height need not be cut within the limits established for clearing.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsection(s) 204a, 204b, 204c, 204d, 204e between the top of the cut slope and the toe of the fill slope. Undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excepted.
- 204a - Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.
- 204b - Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet. When authorized, stumps and other nonperishable objects may be left provided they do not extend more than 6 inches above the existing ground line.
- 204c - On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 204d - On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.
- 204e - Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- 206 - Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210.
- 210 - Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- 301 - This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.



- 302 - Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 303a - Excavated material shall not be wasted as sidecast or perched. All material perched or sidecast as waste shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- 305 - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.
- 305c - Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent rock not larger than 12 inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- 305d - Where embankments are constructed predominantly of blasted rock material, depth of layers shall not exceed 4 feet. Rock fragments having dimensions greater than 4 feet will be permitted provided that they have no dimensions greater than 6 feet and that clearance between adjacent fragments is adequate for the placing and compacting of material in horizontal layers as specified, and that no part of the larger fragments comes within 4 feet of subgrade.
- 306 - Layers of embankment and final subgrade material as specified under Subsection(s) 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsection 103b or 103f, as directed by the Authorized Officer, and in accordance with the following table:

Road No.	From Sta./M.P.	To Sta./M.P.
31-14-18.1 A, B	0.000	0.536
31-14-18.2	0.000	0.264
31-14-18.3	0.000	0.256

- 306d - Compacted materials within 1 foot of the established subgrade elevation shall have a density in place of not less than 95 percent of maximum density, and below the 1-foot limit, these materials shall have a density in place of not less than 90 percent of maximum density. Maximum density shall be determined by AASHTO T 99, Method A or Method D.

- 306f - Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures except as specified in Subsection 306.
- 306g - The face of all fill slopes shall be compacted to 85% of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 311 - In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade and compacting both the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 312 - When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed.
- Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.
- 313 - In cut areas where solid rock is encountered at or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.
- 314 - When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- 321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c.
- NOTE: Any material being hauled over gravel surfaced roads will be done in vehicles which meet legal highway weight requirements while hauling.
- 321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Placement in layers is required. Materials placed shall be sloped, shaped, and otherwise brought to a neat and sightly condition acceptable to the Authorized Officer.
- 324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 327 - The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.
- 328 - The Purchaser shall adopt methods and procedures in using explosives which will prevent damage to adjacent landscape features and which will minimize scattering rocks and other debris outside the road prism.

PIPE CULVERTS - 400

- 401 - This work shall consist of furnishing and installing pipe culverts, pipe arch culverts, full rounds, flume(s), perforated pipe culverts, downspout(s), elbow(s), and other erosion control device(s) in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 403 - Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade and shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- 404 - Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.
- 405 - Corrugated steel riveted and helical pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 as specified on the plans.
- 405a - Corrugated-steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 as specified on the plans.
- 405e - Corrugated-polyethylene pipe for culverts 12-inch through 24-inch diameter shall meet the requirements of AASHTO M 294 for type S. Installation will be subject to the same specification as other pipe materials.
- 406 - Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.
- 406a - "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of 2 annular corrugations.
- 406b - Coupling bands produced from flat galvanized steel sheets with impressed dimples will be permitted only for connecting annular corrugated steel pipe to helically corrugated steel pipe. Such coupling bands shall conform to the width requirements shown on the plans.
- 406f - Channel-type or flanged-end coupling bands may be used on helical pipe with reformed rolled ends and flanged specifically to receive these bands. Such coupling bands shall conform to the requirements shown on the plans.
- 407 - Special sections, such as elbows, branch connections, and flared end sections, shall be of the same gauge as the pipe to which they are joined and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- 407b - Full round culvert downspouts conforming to the material and construction requirements as shown on the plans shall be anchored with two six-foot steel fence posts (one on each side of the pipe) wired together with No. 12 galvanized wire in a manner approved by the Authorized Officer. These anchors shall be placed every ten feet along the pipe beginning at the outlet of the culvert pipe.

- 408 - Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- 409 - Structural-plate pipe culverts and pipe-arch culverts shall be installed in accordance with the plans and detailed erection instructions furnished by the manufacturer. One copy of the erection instructions shall be furnished to the Authorized Officer prior to erection.
- 410 - Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411 - Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram included in the plans shown on Exhibit C and the Culvert Installation Detail Sheet.
- 412 - Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled with selected granular or fine readily compactable soil material.
- 413 - Pipe culverts and pipe-arch culverts shall be bedded on a selected granular or fine readily compactable soil material. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- 413a - Bedding material for pipe culverts on existing surfaced roads shall be 1½ inch minus crushed aggregate meeting the requirements of Sections 1204, 1205, 1206, 1207, and 1208 of these specifications.
- 414a - The invert grade of the bedding shall be cambered at the middle ordinate a minimum of 1 percent of the total length of the drainage structure. Camber shall be developed on a parabolic curve.
- 415 - Inspection of pipe culverts having a diameter of 48 inches and pipe-arch culverts having a height of 40 inches or a cross sectional area of 13 square feet or larger shall be made before backfill is placed. Culverts found to be out of alignment or damaged shall be replaced, reinstalled, or repaired as directed by the Authorized Officer at the Purchaser's expense.
- 416 - Side-fill material for pipe culverts shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel and to 1 foot over the pipe with fine, readily compactable soil or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.
- 417 - For pipe culvert(s) side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe in layers not exceeding 6 inches in depth and 1 pipe diameter/span or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of 95 percent of the maximum density is attained as determined by AASHTO T 99, Method C.
- 418 - Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- 423 - Construction of catch basins and ditch dams conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for grade culverts.
- 425 - Where pervious materials are used for backfill and bedding, collars consisting of selected impervious

material shall be placed at the inlet and at various intervals along the pipe barrel as shown on the plans and as directed by the Authorized Officer.

- 426 - Culvert marker(s) consisting of ½-inch round steel bars 4 feet in length bolted to the culvert at the inlet or 6 foot steel fence posts painted white, shall be furnished, fabricated, and installed by the Purchaser at all grade culverts.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

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

Road No.	From Sta./M.P.	To Sta./M.P.
31-14-6.0 B	1.360	3.948
31-14-17.3	0.000	0.612
31-14-17.5	0.000	0.255
31-14-18.0	0.000	0.031
31-14-18.1 A, B	0.000	0.536

- 502a - Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans. Drainage ditches that are vegetated, capable of adequate water flow, and are in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans shall not be bladed.
- 503 - Debris from slides shall be disposed of as directed by the Authorized Officer.
- 504 - Scarified material and existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsection 103f and in accordance with the following table:

Road No.	From Sta./M.P.	To Sta./M.P.
31-14-6.0 B	1.360	3.948
31-14-17.3	0.000	0.612
31-14-17.5	0.000	0.255
31-14-18.0	0.000	0.031
31-14-18.1 A, B	0.000	0.536

- 504a - Minimum compaction required shall be 1 hour of continuous rolling for each 4 stations of road, or

fraction thereof, as measured along the centerline per layer of material.

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

WATERING -  
600

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

AGGREGATE BASE COURSE AND LANDING ROCK -  
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.
- 1002a - Crushed rock materials may be obtained from commercial sources selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- 1003 - Crushed rock material produced from gravel shall have 3 manufactured fractured face(s) on 75 percent, by weight, of the material retained on the No. 4 sieve.
- 1004 - Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements:

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

Sieve Designation	A
----------------------	---

4-inch	-
3-inch	100
2-inch	90- 95
1½-inch	-
1-inch	45- 75
¾-inch	-
½-inch	-
⅜-inch	-
No. 4	15- 45
No. 8	-
No. 10	-
No. 30	-
No. 40	5-25
No. 200	2-15

- 1005 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1006 - Crushed rock material shall show durability value of not less than 35 as determined by AASHTO T 210.
- 1007 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have liquid limits of not more than 35 and a plasticity index of not less than 4 and not more than 12, as determined by AASHTO T 89 and AASHTO T 90.

- 1007a - That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35 as determined by AASHTO T 176, except where that portion exhibits a sand equivalent of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

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

- 1008 - If additional binder or filler is necessary in order to meet the grading or plasticity requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 1008a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading to full depth until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1009 - The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of crushed rock materials. Notification for subgrade approval prior to rocking shall be 3 days prior to that approval and shall be 6 days prior to start of rocking operations.
- 1010 - Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and compacted in layers not to exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, and compacted, before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing crushed rock material until the surface is smooth and uniform.
- 1010a - Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing under this specification.
- 1012 - Each layer of crushed rock material shall be placed, processed, shaped, moistened, or dried to a uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsection 103f. Minimum compaction shall be one (1) hour of continuous compacting for each 150 cubic yards, or fraction thereof, of crushed rock material placed per layer.



AGGREGATE SURFACE COURSE, SPOT, AND MAINTENANCE ROCK -  
1200 CRUSHED ROCK MATERIAL

- 1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road.
- 1202a - Crushed rock materials used in this work may be obtained from commercial source(s) selected by the Purchaser at his option and expense, providing rock materials furnished comply with the specifications in this section.
- 1203 - When crushed rock material is produced from gravel, not less than 75 percent by weight of the particles retained on the No. 4 sieve will have 3 manufactured fractured face(s).
- 1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE  
COURSE CRUSHED ROCK  
MATERIAL

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

GRADATION

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

- 1205 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.
- 1207 - 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.

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

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

- 1208 - If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 1208a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- 1209 - Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsections 500 for placing on the roadbeds. Notification for roadbed inspection, prior to rocking, shall be 3 days prior to that inspection and shall be 6 days prior to start of rocking operations.
- 1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection 103i. Minimum compaction shall be 1 hour of continuous compacting for each 150 cubic yards or fraction thereof, of crushed rock material placed per layer.

SLOPE PROTECTION – 1400

- 1401 - This work shall consist of furnishing, hauling, and placing stone materials (riprap) for slope protection structures (energy dissipaters at culvert outlets) in accordance with these specifications. Material not conforming to these specifications will be rejected, and shall be removed from the slope protection structure as directed by the Authorized Officer.
- 1402 - Riprap shall be hard, durable, angular in shape, and resistant to weathering and water action. Thickness of a single stone should be more than one-third its length. Do not use rounded rock or boulders. Stone shall be free from overburden, spoil, shale, and organic material and conforming to the following:
- |    |  |           |
|----|--|-----------|
| a. | Apparent Specific Gravity (AASHTO T85) | 2.50 Min. |
| b. | Absorption (AASHTO T85)                | 4.2% Max. |
| c. | Coarse Durability Index (AASHTO T210)  | 20 Min.   |
- 1403 - Loose riprap shall meet the following gradation:
- | <u>Equivalent<br/>Cubic<br/>Dimensions</u> | <u>Total Size<br/>Smaller<br/>Than Given</u> |
|--|--|
| 34 inches                                  | 100  |
| 27 inches                                  | 80   |
| 22 inches                                  | 50   |
| 10 inches                                  | 10   |
- 1404 - The placement of slope protection riprap by the end dumping method is not permitted.
- 1405 - Riprap shall be placed to produce a well keyed mass of rock with the least practical amount of void spaces. The foundation course is the course placed in contact with the ground surface, and shall be placed on a stable key bench. Bearing shall not be on smaller rocks that may be used for filling voids.
- 1405a - Riprap shall be placed directly under the culvert outlet and extend to the point where a 45-degree angle from the outlet invert intersects the key bench. Riprap shall extend a minimum distance equal to the culvert diameter on all sides.
- 1406 - Determination of the acceptability of the slope protection structure will be by visual inspection and / or physical measurements by the Authorized Officer.

EROSION CONTROL - 1700

- 1701 - This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 1702 - The Purchaser shall construct dike(s), dam(s), diversion channel(s), settling basin(s) and other erosion control structure(s) as directed by the Authorized Officer.
- 1704 - The erosion control provisions specified under this subsection shall be coordinated with the soil stabilization requirement(s) of Section 1800.

- 1705 - The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 25,000 square feet without prior approval by the Authorized Officer.
- 1706 - The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right- of-way shall not exceed 25,000 square feet without prior approval by the Authorized Officer.
- 1706a - The Purchaser shall perform, during the same construction season, erosion control measures specified in the plans on all exposed excavation, borrow, and embankment areas.
- 1707 - Completed and partially completed segments of road(s) to be carried over the winter and early spring periods shall be stabilized by mulching exposed areas at the rate of 2,000 pounds per acre.
- 1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway by water-barring, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

SOIL STABILIZATION - 1800

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

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

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Section 1707 and then complete the requirements of Soil Stabilization 1800 the next construction season.

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

- 1806 - The Purchaser shall apply the seed mixtures specified under Subsection 1805 to the corresponding seeding projects as shown on Sheet No. 8.
- 1806a - Additional soil stabilization work consisting of seeding, fertilizing and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Section 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

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

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

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

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

- 1809 - Mulch materials conforming to the requirements of Subsections 1809b, 1809d or 1809e shall be furnished by the Purchaser in the amounts specified under Subsection 1812.

- 1809b - Natural wood cellulose or grass fiber shall have the property of dispersing readily in water and shall have no toxic effect when combined with seed or other materials. The homogeneous slurry or mixture shall be capable of application with power spray equipment. A green colored dye which is noninjurious to plant growth shall be used. Processed wood cellulose or grass fiber shall be packaged in new, labeled containers in an air dry condition. Processed wood cellulose or grass fiber furnished by the Purchaser shall be one of the following brand names or approved equal:

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

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

- 1809d - Straw mulch shall be from oats, wheat, rye, or other approved grain crops which are free from noxious weeds, mold, or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing with power spray equipment.
- 1809e - Grass straw mulch shall be from perennial grass or, if specified, an annual rye grass, from which the seed has been removed. The straw shall be free from noxious weed seed, mold, or other objectionable materials.
- 1810 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it be maintained in a dry state and has the approval of the Authorized Officer.
- 1811 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding and plastic twine will not be permitted.
- 1812 - The Purchaser shall furnish and apply to approximately 6.3 acres designated for treatment as shown on the plans and as specified under Subsection 1806, a mixture of water, grass seed, fertilizer and mulch material, or a mixture of grass seed and fertilizer material at the following rate of application:

a. Single Stage (Hydraulic):

Water	3,000 gals./acre
Grass Seed	60 lbs./acre
Fertilizer	200 lbs./acre
Mulch	3,000 lbs./acre

b. Dry Application:

Grass Seed	60 lbs./acre
Fertilizer	200 lbs./acre
Mulch/Straw	3,000 lbs./acre

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

- 1815 - The Purchaser may reduce the application rate on partially covered slopes and no application on areas already well stocked with grass or on rock surfaces.
- 1816 - The seed, fertilizer and mulch materials shall be placed by the hydraulic or dry method in accordance with the requirements set forth in Subsection 1816a and 1816b.
- 1816a - Hydraulic Method - The seed, fertilizer and mulch materials shall be mixed with water to form a slurry and then applied under pressure by hydroseeder. When processed wood cellulose or grass fiber mulch material is to be incorporated as an integral part of the slurry mix, it shall be added after the seed and fertilizer have been thoroughly mixed.
- 1816b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, fertilizer spreaders, or other approved mechanical seeding equipment may be used when seed and fertilizer are to be applied in dry form.
- 1817 - Hydraulic equipment used for the application of slurry shall meet the following requirements:
- The equipment shall have a built-in agitation system. The slurry distribution lines shall be large enough to prevent stoppage. Discharge line shall be equipped with a set of hydraulic spray nozzles which will provide even distribution of the slurry on the various slopes to be treated. The slurry tank shall have a minimum operation capacity of 1,300 gallons and shall be mounted on a traveling unit which will place the slurry tank and spray nozzles within sufficient proximity to the areas to be treated so as to provide uniform distribution without waste. Lug- or track type units are not authorized. The hydro seeder must be capable of spraying the slurry a minimum distance of 100 feet. The nozzle, mounted on a stand, must be capable of traversing 360 degrees on a horizontal plane and a minimum of 70 degrees on a vertical plane.
- 1817a - Hydromulch slurry mixing shall be with water and seed first, followed by fertilizer, and finally fiber. The time between mixing and application shall not exceed 1 hour.
- 1819 - The maximum distance to be seeded, fertilized and mulched from the road centerline shall be 100 feet for the cut slopes and 150 feet for the fill slopes.
- 1820 - The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- 1822 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- 1823 - No materials shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.

- 1826 - Twine, rope, sacks, and other debris resulting from the soil stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING - 2100

- 2101 - This work shall consist of cutting and the removal of vegetation from the road prism - variable distance and inside curves in accordance with these specifications. This work shall conform to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet, at designated locations as shown in the plans.
- 2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chainsaws.
- 2103 - Vegetation cut manually or mechanically less than 6 inches in diameter at D.B.H. shall be cut to a maximum height of 6 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill sloped and all limbs will be severed from the trunk.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. All limbs will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- 2104 - Trees in excess of 6 inches in diameter at D.B.H. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 12 feet above the running surface of the roadway on cut and fill slopes, within the road prism variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 - Vegetation that is outside of the road prism variable distance that protrudes into the road prism and within 12 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2106 - Vegetative growth capable of growing 1 foot in height or higher shall be cut within the road prism/variable distance or as directed by the Authorized Officer.
- 2108 - Self-propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 - Debris resulting from roadside brushing shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.
- 2113 - Roadside brushing shall be accomplished as specified on the roads listed on Sheet No. 5.
- 2116 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2117 - Traffic warning signs and/or flaggers shall be required at each end of the work area in accordance with Sec. 42.j of the timber sale contract and the Traffic Control Plan approved by the Authorized Officer. Signage shall meet the requirements of the Manual on Uniform Traffic Devices.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Version: 6.1.0.23

**Summary of All Roads and Projects**

Updated: 11/20/2019

T.S. Contract Name: F. Floras ReReOffer    Tract No: 2017.0033    Sale Date: 05/22/2020

Prepared by: M.BAILEY    Ph: 5417514315    Print Date: 5/4/2020 1:55:03 PM

Construction: 27.47 sta

Improve: 0.00 sta    Renov: 284.18 sta    Decom: 0.00 sta    Temp: 0.00 sta

200 Clearing and Grubbing: 4.2 acres .....	\$14,856.21
300 Excavation: .....	\$13,747.89
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage: .....	\$13,384.59
Culvert: 0 lf                      DownSpout: 0 lf	
PolyPipe: 240 lf	
500 Renovation: .....	\$19,700.76
Blading 5.23 mi	
700-1200 Surfacing: .....	\$5,611.34
Commercial Quarry Name: S. Floras CR-BASE    6 LCY	
Commercial Quarry Name: S. Floras CR-SURFACE    223 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$1,833.82
Gradation Class 3: 60 cy	
1800 Soil Stabilization: 6.7 acres .....	\$6,331.73
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: .....	\$6,514.70
Mechanical Brushing: 10.4 acres	
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$4,060.58    Surf. \$0.00.....	\$4,060.58
Quarry Development: .....	\$0.00

Total: 1,228 mbf @ \$70.066/mbf = \$86,041.62

Notes:

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



ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

**Road Number: 31-14-17.3** Road Name: 31-14-17.3

Road Renovation: 0.61 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.0 acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$50.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,866.39
Blading 0.61 mi	
700-1200 Surfacing: .....	\$548.44
Quarry Name: S. Floras CR-SURFACE 20 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.3 acres .....	\$285.21
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Mechanical):1.5 acres .....	\$977.01
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$184.60 Surf. \$0.00.....	\$184.60
Quarry Development: .....	\$0.00
Total:	\$3,911.66

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-14-17.3 Road Name: 31-14-17.3

Section 200 Clearing and Grubbing:

Clearing - Medium (Clearing): Adjustment Factor (1.67)  
 31-45% (Avg Side Slopes): Adjustment Factor (0.2)  
 Windrow (Slash): Adjustment Factor (1.07)  
 20-40' (Avg Clearing Widths): Adjustment Factor (0.1)  
 Total Adjustment Factor: 1.67 + 0.2 + 1.07 + 0.1 = 3.04

Culvert Inlet Markers

6' Steel T-Post 5 ea x \$10.00/ea = \$50.00

Subtotal: \$50.00

Section 500 Renovation:

Blading: \$708.54/mi x 0.61 mi = \$432.21  
 Scarification: \$868.38/mi x 0.61 mi = \$529.71  
 Compaction: \$330.78/mi x 0.61 mi = \$201.78  
 Clean Culverts: \$383.34/mi x 0.61 mi = \$233.84  
 Ditchline Bunch & End Haul  
 Motor Grader 14M 1 hr x \$142.72/hr = \$142.72  
 Backhoe 2 hr x \$87.60/hr = \$175.20  
 Dump Truck 10 cy 2 hr x \$75.47/hr = \$150.94

Subtotal: \$1,866.39

Section 700-1200 Surfacing:

Commercial Quarry Name: S. Floras CR-SURFACE

<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 LCY

Purchase Price / Royalty: \$16.27/LCY x 20 LCY = \$325.40

Processing: \$0.90/LCY x 20 LCY = \$18.00

Compaction: \$1.10/LCY x 20 LCY = \$22.00

Basic Rock Haul cost: \$1.18/LCY x 20 LCY = \$23.60

Rock Haul +15% grades: \$1.78/LCY-mi x 20 LCY x 2.00 mi = \$71.20

Rock Haul -15% grades: \$0.89/LCY-mi x 20 LCY x 3.00 mi = \$53.40

Rock Haul St & Co Roads: \$0.39/LCY-mi x 20 LCY x 0.80 mi = \$6.24

Basic Water Haul cost: \$0.54/LCY x 20 LCY = \$10.80

Water Haul +15% grades: \$0.25/LCY-mi x 20 LCY x 2.00 mi = \$10.00

Water Haul -15% grades: \$0.13/LCY-mi x 20 LCY x 3.00 mi = \$7.80

Subtotal: \$548.44

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$464.71/acre x 0.30 acres = \$139.41

Includes Small Quantity Factor of 1.20

+ Seed Cost: \$132.00/acre x 0.30 acres = \$39.60

+ Fertilizer Cost: \$34.00/acre x 0.30 acres = \$10.20

+ Mulch Cost: \$320.00/acre x 0.30 acres = \$96.00

Subtotal: \$285.21

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Heavy: \$651.34/acre x 1.50 acres = \$977.01

Subtotal: \$977.01

Mobilization:

Construction - 4.55% of total Costs = \$184.60

Subtotal: \$184.60

Total: \$3,911.66

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

**Road Number: 31-14-17.5** Road Name: 31-14-17.5

Road Renovation: 0.25 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$2,950.32
Blading 0.25 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.3 acres .....	\$285.21
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Mechanical):0.9 acres .....	\$586.21
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$189.29 Surf. \$0.00.....	\$189.29
Quarry Development: .....	\$0.00

Total: \$4,011.03

Notes:

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

Road Construction Worksheet

Road Number: 31-14-17.5 Road Name: 31-14-17.5

Section 500 Renovation:

Blading:  $\$708.54/\text{mi} \times 0.25 \text{ mi} = \$177.14$   
Scarification:  $\$868.38/\text{mi} \times 0.25 \text{ mi} = \$217.10$   
Compaction:  $\$330.78/\text{mi} \times 0.25 \text{ mi} = \$82.70$   
Clean Culverts:  $\$383.34/\text{mi} \times 0.25 \text{ mi} = \$95.84$   
Re-establish ditchlines  
Excavator -Small (1.5 CY) 16 hr x  $\$99.88/\text{hr} = \$1,598.08$   
Dump Truck 10 cy 6 hr x  $\$75.47/\text{hr} = \$452.82$   
Construct LZ MP 0.255  
Tractor: D7 with winch 2 hr x  $\$163.33/\text{hr} = \$326.66$

Subtotal: \$2,950.32

Section 700-1200 Surfacing:

Surfacing:

Section 1800 Soil Stabilization:

Dry Method with Mulch:  $\$464.71/\text{acre} \times 0.30 \text{ acres} = \$139.41$   
Includes Small Quantity Factor of 1.20  
+ Seed Cost:  $\$132.00/\text{acre} \times 0.30 \text{ acres} = \$39.60$   
+ Fertilizer Cost:  $\$34.00/\text{acre} \times 0.30 \text{ acres} = \$10.20$   
+ Mulch Cost:  $\$320.00/\text{acre} \times 0.30 \text{ acres} = \$96.00$

Subtotal: \$285.21

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Heavy:  $\$651.34/\text{acre} \times 0.90 \text{ acres} = \$586.21$

Subtotal: \$586.21

Mobilization:

Construction - 4.66% of total Costs = \$189.29

Subtotal: \$189.29

Total: \$4,011.03

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

**Road Number: 31-14-18.0** Road Name: 31-14-18.0

Road Renovation: 0.03 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$71.02
Blading 0.03 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 0.0 acres .....	\$0.00
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Mechanical):0.1 acres .....	\$212.98
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$14.07 Surf. \$0.00.....	\$14.07
Quarry Development: .....	\$0.00
Total:	\$298.07

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-14-18.0 Road Name: 31-14-18.0

Section 500 Renovation:

Blading:  $\$708.54/\text{mi} \times 0.03 \text{ mi} = \$21.96$   
Scarification:  $\$868.38/\text{mi} \times 0.03 \text{ mi} = \$26.92$   
Compaction:  $\$330.78/\text{mi} \times 0.03 \text{ mi} = \$10.25$   
Clean Culverts:  $\$383.34/\text{mi} \times 0.03 \text{ mi} = \$11.88$

Subtotal: \$71.02

Section 700-1200 Surfacing:

Surfacing:

Section 2100 Roadside Brushing:

Mechanical Brushing

RoadSide Brushing Heavy:  $\$651.34/\text{acre} \times 0.10 \text{ acres} = \$65.13$

Oversize brushing

Excavator -Small (1.5 CY) 1 hr x  $\$99.88/\text{hr} = \$99.88$

Chainsaw 1 hr x  $\$47.97/\text{hr} = \$47.97$

Subtotal: \$212.98

Mobilization:

Construction - 0.35% of total Costs =  $\$14.07$

Subtotal: \$14.07

Total: \$298.07

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

Road Number: 31-14-18.1 A Road Name: 09-1

Road Renovation: 0.30 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 0.7 acres .....	\$2,596.58
300 Excavation: .....	\$2,795.22
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,204.22
Blading 0.15 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.3 acres .....	\$1,216.91
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 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. \$386.98 Surf. \$0.00.....	\$386.98
Quarry Development: .....	\$0.00

Total: \$8,199.91

Notes:

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

Road Construction Worksheet

Road Number: 31-14-18.1 A Road Name: 09-1

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)  
 31-45% (Avg Side Slopes): Adjustment Factor (0.2)  
 Scatter (Slash): Adjustment Factor (1)  
 20-40' (Avg Clearing Widths): Adjustment Factor (0.1)  
 Total Adjustment Factor: 2.54 + 0.2 + 1 + 0.1 = 3.84  
 Base Cost/Acre: \$926.29 x Adjustment Factor: 3.84 x Total Acres: 0.73 = \$2,596.58  
 Subtotal: \$2,596.58

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.57/sta. x 6.0 sta = \$165.42  
 Blading without ditch: \$11.98/station x 6.00 stations = \$71.88  
 Reconstruct Subgrade  
 Tractor: D7 with rippers 16 hr x \$159.87/hr = \$2,557.92  
 Subtotal: \$2,795.22

Section 500 Renovation:

Scarification: \$868.38/mi x 0.15 mi = \$130.26  
 Blading w/o Ditches: \$434.19/mi x 0.15 mi = \$65.13  
 Compaction: \$330.78/mi x 0.15 mi = \$49.62  
 Widen Subgrade  
 Tractor: D7 with rippers 6 hr x \$159.87/hr = \$959.22  
 Subtotal: \$1,204.22

Section 700-1200 Surfacing:

Surfacing:

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$464.71/acre x 1.28 acres = \$594.83  
 Includes Small Quantity Factor of 1.20  
 + Seed Cost: \$132.00/acre x 1.28 acres = \$168.96  
 + Fertilizer Cost: \$34.00/acre x 1.28 acres = \$43.52  
 + Mulch Cost: \$320.00/acre x 1.28 acres = \$409.60  
 Subtotal: \$1,216.91

Section 2100 Roadside Brushing:

RoadSide Brushing Medium: \$717.60/acre x 0.00 acres = \$0.00

Mobilization:

Construction - 9.53% of total Costs = \$386.98  
 Subtotal: \$386.98

Total: \$8,199.91



ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

**Road Number: 31-14-18.1 B** Road Name: 09-1

Road Renovation: 0.23 mi 14 ft Subgrade ft ditch

200 Clearing and Grubbing: 0.6 acres .....	\$1,974.67
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$1,501.29
Blading 0.23 mi	
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.0 acres .....	\$941.20
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 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. \$218.79 Surf. \$0.00.....	\$218.79
Quarry Development: .....	\$0.00

Total: \$4,635.95

Notes:

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

Road Construction Worksheet

Road Number: 31-14-18.1 B Road Name: 09-1

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)  
 16-30% (Avg Side Slopes): Adjustment Factor (0.1)  
 Scatter (Slash): Adjustment Factor (1)  
 20-40' (Avg Clearing Widths): Adjustment Factor (0.1)  
 Total Adjustment Factor:  $2.54 + 0.1 + 1 + 0.1 = 3.74$   
 Base Cost/Acre:  $\$926.29 \times$  Adjustment Factor:  $3.74 \times$  Total Acres:  $0.57 = \$1,974.67$   
 Subtotal:  $\$1,974.67$

Section 500 Renovation:

Scarification:  $\$868.38/\text{mi} \times 0.23 \text{ mi} = \$203.20$   
 Blading w/o Ditches:  $\$434.19/\text{mi} \times 0.23 \text{ mi} = \$101.60$   
 Compaction:  $\$330.78/\text{mi} \times 0.23 \text{ mi} = \$77.40$   
 Widen Subgrade  
 Tractor: D7 with rippers 7 hr  $\times \$159.87/\text{hr} = \$1,119.09$   
 Subtotal:  $\$1,501.29$

Section 700-1200 Surfacing:

Surfacing:

Section 1800 Soil Stabilization:

Dry Method with Mulch:  $\$464.71/\text{acre} \times 0.99 \text{ acres} = \$460.06$   
 Includes Small Quantity Factor of 1.20  
 + Seed Cost:  $\$132.00/\text{acre} \times 0.99 \text{ acres} = \$130.68$   
 + Fertilizer Cost:  $\$34.00/\text{acre} \times 0.99 \text{ acres} = \$33.66$   
 + Mulch Cost:  $\$320.00/\text{acre} \times 0.99 \text{ acres} = \$316.80$   
 Subtotal:  $\$941.20$

Mobilization:

Construction - 5.39% of total Costs =  $\$218.79$   
 Subtotal:  $\$218.79$

Total:  $\$4,635.95$

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

Road Number: 31-14-18.2 Road Name: 09-2

Road Construction: 0.26 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 1.4 acres .....	\$4,979.74
300 Excavation: .....	\$3,588.86
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.4 acres .....	\$1,331.00
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 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. \$490.33 Surf. \$0.00.....	\$490.33
Quarry Development: .....	\$0.00
Total:	\$10,389.92

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-14-18.2 Road Name: 09-2

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)

31-45% (Avg Side Slopes): Adjustment Factor (0.2)

Scatter (Slash): Adjustment Factor (1)

20-40' (Avg Clearing Widths): Adjustment Factor (0.1)

Total Adjustment Factor:  $2.54 + 0.2 + 1 + 0.1 = 3.84$

Base Cost/Acre:  $\$926.29 \times$  Adjustment Factor:  $3.84 \times$  Total Acres:  $1.4 = \$4,979.74$

Subtotal:  $\$4,979.74$

Section 300 Excavation:

Subgrade Compaction:  $4 \text{ Sta/hr} \times \$27.57/\text{sta.} \times 13.9 \text{ sta} = \$384.33$

Blading without ditch:  $\$11.98/\text{station} \times 13.94 \text{ stations} = \$167.00$

Subgrade Construction

Tractor: D7 with rippers  $15 \text{ hr} \times \$159.87/\text{hr} = \$2,398.05$

Landing Construction

Tractor: D7 with rippers  $4 \text{ hr} \times \$159.87/\text{hr} = \$639.48$

Subtotal:  $\$3,588.86$

Section 700-1200 Surfacing:

Surfacing:

Section 1800 Soil Stabilization:

Dry Method with Mulch:  $\$464.71/\text{acre} \times 1.40 \text{ acres} = \$650.60$

Includes Small Quantity Factor of 1.20

+ Seed Cost:  $\$132.00/\text{acre} \times 1.40 \text{ acres} = \$184.80$

+ Fertilizer Cost:  $\$34.00/\text{acre} \times 1.40 \text{ acres} = \$47.60$

+ Mulch Cost:  $\$320.00/\text{acre} \times 1.40 \text{ acres} = \$448.00$

Subtotal:  $\$1,331.00$

Mobilization:

Construction -  $12.08\%$  of total Costs =  $\$490.33$

Subtotal:  $\$490.33$

Total:  $\$10,389.92$

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

**Road Number: 31-14-18.3** Road Name: 11-2

Road Construction: 0.26 mi 14 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: 1.3 acres .....	\$4,552.62
300 Excavation: .....	\$3,732.51
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
700-1200 Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.3 acres .....	\$1,226.42
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (NONE):0.0 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. \$471.11 Surf. \$0.00.....	\$471.11
Quarry Development: .....	\$0.00
Total:	\$9,982.67

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-14-18.3 Road Name: 11-2

Section 200 Clearing and Grubbing:

Clearing - Heavy (Clearing): Adjustment Factor (2.54)  
 16-30% (Avg Side Slopes): Adjustment Factor (0.1)  
 Windrow (Slash): Adjustment Factor (1.07)  
 20-40' (Avg Clearing Widths): Adjustment Factor (0.1)  
 Total Adjustment Factor: 2.54 + 0.1 + 1.07 + 0.1 = 3.81  
 Base Cost/Acre: \$926.29 x Adjustment Factor: 3.81 x Total Acres: 1.29 = \$4,552.62  
 Subtotal: \$4,552.62

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$27.57/sta. x 13.5 sta = \$373.02  
 Blading without ditch: \$11.98/station x 13.53 stations = \$162.09  
 Subgrade Construction  
 Tractor: D7 with rippers 14 hr x \$159.87/hr = \$2,238.18  
 Landing Construction  
 Tractor: D7 with rippers 6 hr x \$159.87/hr = \$959.22  
 Subtotal: \$3,732.51

Section 700-1200 Surfacing:

Surfacing:

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$464.71/acre x 1.29 acres = \$599.48  
 Includes Small Quantity Factor of 1.20  
 + Seed Cost: \$132.00/acre x 1.29 acres = \$170.28  
 + Fertilizer Cost: \$34.00/acre x 1.29 acres = \$43.86  
 + Mulch Cost: \$320.00/acre x 1.29 acres = \$412.80  
 Subtotal: \$1,226.42

Mobilization:

Construction - 11.60% of total Costs = \$471.11  
 Subtotal: \$471.11

Total: \$9,982.67

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

**Road Number: 31-14-6.0 A** Road Name: 31-14-6.0 A

Road Renovation: 1.36 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: acres .....	\$0.00
300 Excavation: .....	\$0.00
400 Drainage: .....	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$3,115.81
Blading 1.36 mi	
700-1200 Surfacing: .....	\$2,322.20
Quarry Name: S. Floras CR-SURFACE 100 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$454.20
Gradation Class 3: 10 cy	
1800 Soil Stabilization: 0.1 acres .....	\$95.07
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Mechanical):1.6 acres .....	\$635.05
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$328.01 Surf. \$0.00.....	\$328.01
Quarry Development: .....	\$0.00

Total: \$6,950.35

Notes:

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

Road Construction Worksheet

Road Number: 31-14-6.0 A Road Name: 31-14-6.0 A

Section 500 Renovation:

Blading: \$708.54/mi x 1.36 mi = \$963.61
Scarification: \$868.38/mi x 1.36 mi = \$1,181.00
Compaction: \$330.78/mi x 1.36 mi = \$449.86
Clean Culverts: \$383.34/mi x 1.36 mi = \$521.34

Subtotal: \$3,115.81

Section 700-1200 Surfacing:

Commercial Quarry Name: S. Floras CR-SURFACE

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

Rock Volume = 100 LCY
Purchase Price / Royalty: \$16.27/LCY x 100 LCY = \$1,627.00
Processing: \$0.90/LCY x 100 LCY = \$90.00
Compaction: \$1.10/LCY x 100 LCY = \$110.00
Basic Rock Haul cost: \$1.18/LCY x 100 LCY = \$118.00
Rock Haul +15% grades: \$1.78/LCY-mi x 100 LCY x 1.50 mi= \$267.00
Rock Haul St& Co Roads: \$0.39/LCY-mi x 100 LCY x 0.80 mi= \$31.20
Basic Water Haul cost: \$0.54/LCY x 100 LCY = \$54.00
Water Haul +15% grades: \$0.25/LCY-mi x 100 LCY x 1.00 mi= \$25.00

Subtotal: \$2,322.20

Section 1400 Slope Protection:

Comment: Shoulder Repair MP 1.214
Rock Source: S. Floras CR-RIPRAP
Purchase Price / Royalty: \$18.00/cy x 10cy = \$180.00
Furnish Class 3 type rock
Basic Rock Haul cost: \$1.42/cy x 10cy = \$14.20
Rock Haul +15% grades: \$2.12/cy-mi x 10cy x 1.50 mi= \$31.80
Rock Haul St& Co Roads: \$0.47/cy-mi x 10cy x 0.80 mi= \$3.76
Placement on Fill slopes: 10cy x (\$2.91/cy x 1.04) = \$30.26
Shoulder repair
Excavator -Small (1.5 CY) 2 hr x \$97.09/hr = \$194.18

Subtotal: \$454.20

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$464.71/acre x 0.10 acres = \$46.47
Includes Small Quantity Factor of 1.20
+ Seed Cost: \$132.00/acre x 0.10 acres = \$13.20
+ Fertilizer Cost: \$34.00/acre x 0.10 acres = \$3.40
+ Mulch Cost: \$320.00/acre x 0.10 acres = \$32.00

Subtotal: \$95.07

Section 2100 Roadside Brushing:

Mechanical Brushing
Brushing width Left: 5ft. Right: 5ft.
RoadSide Brushing Light: \$244.25/acre x 1.00 acres = \$244.25
RoadSide Brushing Heavy: \$651.34/acre x 0.60 acres = \$390.80

Subtotal: \$635.05

Mobilization:

Construction - 8.08% of total Costs = \$328.01

Subtotal: \$328.01

Total: \$6,950.35



ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

**Road Number: 31-14-6.0 B** Road Name: 31-14-6.0 B

Road Renovation: 2.59 mi 16 ft Subgrade 2 ft ditch

200 Clearing and Grubbing: 0.3 acres .....	\$752.61
300 Excavation: .....	\$3,631.30
400 Drainage: .....	\$13,334.59
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 240 lf	
500 Renovation: .....	\$8,991.69
Blading 2.59 mi	
700-1200 Surfacing: .....	\$2,740.70
Quarry Name: S. Floras CR-BASE 6 LCY	
Quarry Name: S. Floras CR-SURFACE 103 LCY	
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$1,379.62
Gradation Class 3: 50 cy	
1800 Soil Stabilization: 1.0 acres .....	\$950.71
Includes Small Quantity Factor of 1.20	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing (Mechanical):6.3 acres .....	\$4,103.44
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$0.00
Mobilization: Const. \$1,777.39 Surf. \$0.00.....	\$1,777.39
Quarry Development: .....	\$0.00
<b>Total:</b>	<b>\$37,662.06</b>

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 31-14-6.0 B Road Name: 31-14-6.0 B

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: \$926.29 x Adjustment Factor: 3.25 x Total Acres: 0.25 = \$752.61  
 Subtotal: \$752.61

Section 300 Excavation:

MP 3.192 Repair  
 Dump Truck 10 cy 16 hr x \$75.47/hr = \$1,207.52  
 Excavator -Small (1.5 CY) 16 hr x \$99.88/hr = \$1,598.08  
 Vibratory roller, Steel Drum 2 hr x \$110.26/hr = \$220.52  
 Motor Grader 14M 2 hr x \$142.72/hr = \$285.44  
 Tractor: D7 with rippers 2 hr x \$159.87/hr = \$319.74  
 Subtotal: \$3,631.30

Section 400 Drainage:

Poly Pipe 18 inch 240 lf x \$42.37/lf = \$10,168.80  
 Culvert Inlet Markers  
 6' Steel T-Post 29 ea x \$10.00/ea = \$290.00  
 Culvert Bedding/Backfill Rock  
 1 1/2" Minus Crushed Rock 80 CY x \$30.00/CY = \$2,400.00  
 Removed culvert disposal  
 Dump Truck 12 cy 3 hr x \$93.87/hr = \$281.61  
 Excavator -Small (1.5 CY) 2 hr x \$97.09/hr = \$194.18  
 Subtotal: \$13,334.59

Section 500 Renovation:

Blading: \$708.54/mi x 2.59 mi = \$1,835.12  
 Scarification: \$868.38/mi x 2.59 mi = \$2,249.10  
 Compaction: \$330.78/mi x 2.59 mi = \$856.72  
 Clean Culverts: \$383.34/mi x 2.59 mi = \$992.85  
 Ditchline bunch & end-haul  
 Backhoe 10 hr x \$87.60/hr = \$876.00  
 Motor Grader 14M 10 hr x \$142.72/hr = \$1,427.20  
 Dump Truck 10 cy 10 hr x \$75.47/hr = \$754.70  
 Subtotal: \$8,991.69

Section 700-1200 Surfacing:

Commercial Quarry Name: S. Floras CR-BASE

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

Rock Volume = 6 LCY  
 Purchase Price / Royalty: \$16.27/LCY x 6 LCY = \$97.62  
 Processing: \$0.90/LCY x 6 LCY = \$5.40  
 Compaction: \$1.10/LCY x 6 LCY = \$6.60  
 Basic Rock Haul cost: \$1.18/LCY x 6 LCY = \$7.08  
 Rock Haul +15% grades: \$1.78/LCY-mi x 6 LCY x 1.60 mi = \$17.09  
 Rock Haul -15% grades: \$0.89/LCY-mi x 6 LCY x 1.60 mi = \$8.54  
 Rock Haul St& Co Roads: \$0.39/LCY-mi x 6 LCY x 0.80 mi = \$1.87  
 Basic Water Haul cost: \$0.54/LCY x 6 LCY = \$3.24  
 Water Haul +15% grades: \$0.25/LCY-mi x 6 LCY x 1.50 mi = \$2.25  
 Water Haul -15% grades: \$0.13/LCY-mi x 6 LCY x 1.50 mi = \$1.17  
 Water Haul St&Co Roads: \$0.07/LCY-mi x 6 LCY x 0.00 mi = \$0.00

Road Number: 31-14-6.0 B 31-14-6.0 B Continued

Commercial Quarry Name: S. Floras CR-SURFACE

<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>
									103 LCY

Rock Volume = 103 LCY  
 Purchase Price / Royalty: \$16.27/LCY x 103 LCY = \$1,675.81  
 Processing: \$0.90/LCY x 103 LCY = \$92.70  
 Compaction: \$1.10/LCY x 103 LCY = \$113.30  
 Basic Rock Haul cost: \$1.18/LCY x 103 LCY = \$121.54  
 Rock Haul +15% grades: \$1.78/LCY-mi x 103 LCY x 1.60 mi= \$293.34  
 Rock Haul -15% grades: \$0.89/LCY-mi x 103 LCY x 1.60 mi= \$146.67  
 Rock Haul St& Co Roads: \$0.39/LCY-mi x 103 LCY x 0.80 mi= \$32.14  
 Basic Water Haul cost: \$0.54/LCY x 103 LCY = \$55.62  
 Water Haul +15% grades: \$0.25/LCY-mi x 103 LCY x 1.50 mi= \$38.63  
 Water Haul -15% grades: \$0.13/LCY-mi x 103 LCY x 1.50 mi= \$20.09  
 Water Haul St&Co Roads: \$0.07/LCY-mi x 103 LCY x 0.00 mi= \$0.00

Subtotal: \$2,740.70

Section 1400 Slope Protection:

Comment: MP 3.192  
 Rock Source: S. Floras CR-RIPRAP  
 Purchase Price / Royalty: \$18.00/cy x 50cy = \$900.00  
 Furnish Class 3 type rock  
 Basic Rock Haul cost: \$1.42/cy x 50cy = \$71.00  
 Rock Haul +15% grades: \$2.12/cy-mi x 50cy x 1.50 mi= \$159.00  
 Rock Haul -15% grades: \$1.06/cy-mi x 50cy x 1.50 mi= \$79.50  
 Rock Haul St& Co Roads: \$0.47/cy-mi x 50cy x 0.80 mi= \$18.80  
 Placement on Fill slopes: 50cy x (\$2.91/cy x 1.04) = \$151.32

Subtotal: \$1,379.62

Section 1800 Soil Stabilization:

Comment: Culverts & Waste Area  
 Dry Method with Mulch: \$464.71/acre x 1.00 acres = \$464.71  
 Includes Small Quantity Factor of 1.20  
 + Seed Cost: \$132.00/acre x 1.00 acres = \$132.00  
 + Fertilizer Cost: \$34.00/acre x 1.00 acres = \$34.00  
 + Mulch Cost: \$320.00/acre x 1.00 acres = \$320.00

Subtotal: \$950.71

Section 2100 Roadside Brushing:

Mechanical Brushing  
 RoadSide Brushing Heavy: \$651.34/acre x 6.30 acres = \$4,103.44

Subtotal: \$4,103.44

Mobilization:

Construction - 43.77% of total Costs = \$1,777.39

Subtotal: \$1,777.39

Total: \$37,662.06

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**Mobilization Costs - Construction and Surfacing**

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

Average Mobilization distance = 75 miles Factor = 1.37

Mobilization: Construction

Hydro-Mulcher: 1 ea x (1.37 x \$75.00/ea + 0 mi x \$4.16/mi)= \$102.75  
Fire Equipment: 1 ea x (1.37 x \$75.00/ea + 0 mi x \$4.16/mi)= \$102.75  
Graders-all: 1 ea x (1.37 x \$414.00/ea + 0 mi x \$14.27/mi)= \$567.18  
Rollers & Comp: 1 ea x (1.37 x \$414.00/ea + 0 mi x \$22.05/mi)= \$567.18  
Tractors <= D7: 1 ea x (1.37 x \$655.00/ea + 0 mi x \$31.35/mi)= \$897.35  
Dump Truck<=15cy: 1 ea x (1.37 x \$91.00/ea + 0 mi x \$3.77/mi)= \$124.67  
Water Truck: 1 ea x (1.37 x \$96.00/ea + 0 mi x \$3.99/mi)= \$131.52  
Excavators(Small): 1 ea x (1.37 x \$414.00/ea + 0 mi x \$19.98/mi)= \$567.18  
Equipment Washing: 4 ea x (\$250.00) /ea = \$1,000.00

Subtotal: \$4,060.58

Mobilization: Surfacing

Subtotal: \$0.00

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**Summary of Construction Quantities**

T.S. Contract Name: F. Floras ReReOffer Sale Date: 05/22/2020

Road Number	Const	Improv	Renov	Decomm	Temp
31-14-17.3			32.31		
31-14-17.5			13.46		
31-14-18.0			1.64		
31-14-18.1 A			15.95		
31-14-18.1 B			12.36		
31-14-18.2	13.94				
31-14-18.3	13.53				
31-14-6.0 A			71.81		
31-14-6.0 B			136.65		
<b>Total Sta:</b>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	27.47		284.18		

200 Clearing and Grubbing	Clearing acres
31-14-17.3	0.0
31-14-17.5	0.0
31-14-18.0	0.0
31-14-18.1 A	0.7
31-14-18.1 B	0.6
31-14-18.2	1.4
31-14-18.3	1.3
31-14-6.0 A	0.0
31-14-6.0 B	0.3
<b>Totals:</b>	<hr/>
	4.2

300 Excavation	Excav LCY.s	Haul sta-yds	Haul yd-mi
<b>Totals:</b>	<hr/>	<hr/>	<hr/>
	0	0	0

Landing Construction	31-14-18.2		
Tractor: D7 with rippers			4 hr
Landing Construction	31-14-18.3		
Tractor: D7 with rippers			6 hr
MP 3.192 Repair	31-14-6.0 B		
Dump Truck 10 cy			16 hr
Excavator -Small (1.5 CY)			16 hr
Vibratory roller, Steel Drum			2 hr
Motor Grader 14M			2 hr
Tractor: D7 with rippers			2 hr
Reconstruct Subgrade	31-14-18.1 A		
Tractor: D7 with rippers			16 hr
Subgrade Construction	31-14-18.2		
Tractor: D7 with rippers			15 hr
Subgrade Construction	31-14-18.3		
Tractor: D7 with rippers			14 hr

400 Drainage

Road Number	CMP Culvert	Polypipes	Downspouts
31-14-6.0 B	0 lf	240 lf	0 lf

Continuation of Construction Quantities

Total Drainage:	240 lf		
Culvert Qty	Aluminized	Galvanized	Poly Pipe
12 inch	0 lf	0 lf	
18 inch	0 lf	0 lf	240 lf
24 inch	0 lf	0 lf	0 lf
30 inch	0 lf	0 lf	0 lf
36 inch	0 lf	0 lf	0 lf
42 inch	0 lf	0 lf	
48 inch	0 lf	0 lf	

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

Culvert Bedding/Backfill Rock	31-14-6.0 B	
1 1/2" Minus Crushed Rock		80 CY
Culvert Inlet Markers	31-14-17.3	
6' Steel T-Post		5 ea
Culvert Inlet Markers	31-14-6.0 B	
6' Steel T-Post		29 ea
Removed culvert disposal	31-14-6.0 B	
Dump Truck 12 cy		3 hr
Excavator -Small (1.5 CY)		2 hr

500 Renovation	Blade Miles	Slide cy
31-14-17.3	0.61	0
31-14-17.5	0.25	0
31-14-18.0	0.03	0
31-14-18.1 A	0.15	0
31-14-18.1 B	0.23	0
31-14-6.0 A	1.36	0
31-14-6.0 B	2.59	0

Totals: 5.23 0

Construct LZ MP 0.255	31-14-17.5	
Tractor: D7 with winch		2 hr
Ditchline Bunch & End Haul	31-14-17.3	
Motor Grader 14M		1 hr
Backhoe		2 hr
Dump Truck 10 cy		2 hr
Ditchline bunch & end-haul	31-14-6.0 B	
Backhoe		10 hr
Motor Grader 14M		10 hr
Dump Truck 10 cy		10 hr
Re-establish ditchlines	31-14-17.5	
Excavator -Small (1.5 CY)		16 hr
Dump Truck 10 cy		6 hr
Widen Subgrade	31-14-18.1 B	
Tractor: D7 with rippers		7 hr
Widen Subgrade	31-14-18.1 A	
Tractor: D7 with rippers		6 hr

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

Continuation of Construction Quantities

Quarry Name: S. Floras CR-BASE				
Commercial	Roadway	Turnouts	Other	
31-14-6.0 B	0	0	6	6
	<hr/>	<hr/>	<hr/>	<hr/>
Totals:	0	0	6	6

Quarry Name: S. Floras CR-SURFACE				
Commercial	Roadway	Turnouts	Other	
31-14-6.0 B	0	0	103	103
31-14-6.0 A	0	0	100	100
31-14-17.3	0	0	20	20
	<hr/>	<hr/>	<hr/>	<hr/>
Totals:	0	0	223	223

Quarry Name: S. Floras CR-RIPRAP				
Commercial	Roadway	Turnouts	Other	
	<hr/>	<hr/>	<hr/>	<hr/>
Totals:	0	0	0	0

1300 Geotextiles

1400 Slope Protection		
31-14-6.0 A		Gradation Class 3: 10 cy
31-14-6.0 B		Gradation Class 3: 50 cy
		<hr/>
	Totals:	60 cy

Shoulder repair 31-14-6.0 A  
 Excavator -Small (1.5 CY) . . . . . 2 hr

1800 Soil stabilization - acres	Dry W/O Mulch	Dry/with Mulch	Hydro Mulch
31-14-17.3	0.0	0.3	
31-14-17.5	0.0	0.3	
31-14-18.1 A	0.0	1.3	
31-14-18.1 B	0.0	1.0	
31-14-18.2	0.0	1.4	
31-14-18.3	0.0	1.3	
31-14-6.0 A	0.0	0.1	
31-14-6.0 B	0.0	1.0	
	<hr/>	<hr/>	<hr/>
Totals:	0.0	6.7	0.0

Small Quantity Factor of 1.20 used

1900 Cattleguards

2100 RoadSide Brushing	acres
31-14-17.3 - Mechanical Brushing	1.5
31-14-17.5 - Mechanical Brushing	0.9
31-14-18.0 - Mechanical Brushing	0.1
31-14-6.0 A - Mechanical Brushing	1.6
31-14-6.0 B - Mechanical Brushing	6.3
	<hr/>
Totals:	10.4

Oversize brushing 31-14-18.0  
 Excavator -Small (1.5 CY) . . . . . 1 hr  
 Chainsaw . . . . . 1 hr

Continuation of Construction Quantities

2300 Engineering	stations
	<hr/>
Totals:	0.00

2400 Minor Concrete

2500 Gabions







8000 Miscellaneous

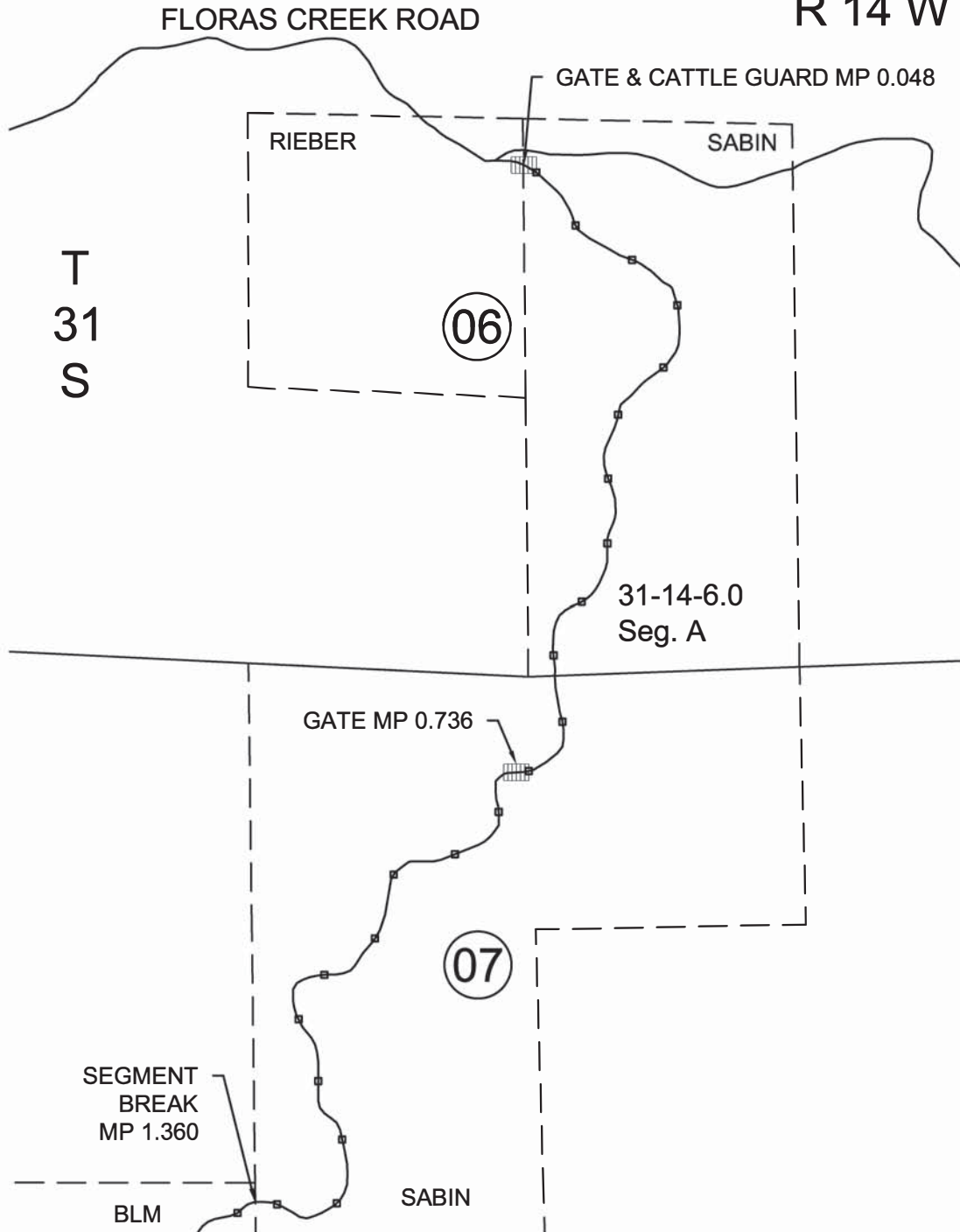


# EXHIBIT D

R 14 W

## LEGEND

- OPERATOR MAINTAINED BLM ROAD 
- OWNERSHIP LINE 
- CONSTRUCT BARRIER 
- PURCHASER SELECT LANDING 
- NEW CONSTRUCTION LANDING 
- GATE 



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TIMBER SALE: FIRST FLORAS RE-OFFER <b>WORK LOCATION MAP</b>	
DESIGNED <u>G. ZARTMAN</u>	
REVIEWED <u>J. VAN AGTMAEL</u>	
APPROVED <u>G. ZARTMAN</u>	
DRAWN <u>M. HEMMER</u>	SCALE <u>NONE</u>
DATE <u>07 16</u>	SHEET <u>1 OF 9</u>
DRAWING NO. <u>FIRST FLORAS EXHIBIT D.DWG</u>	



# EXHIBIT D







R 15 W

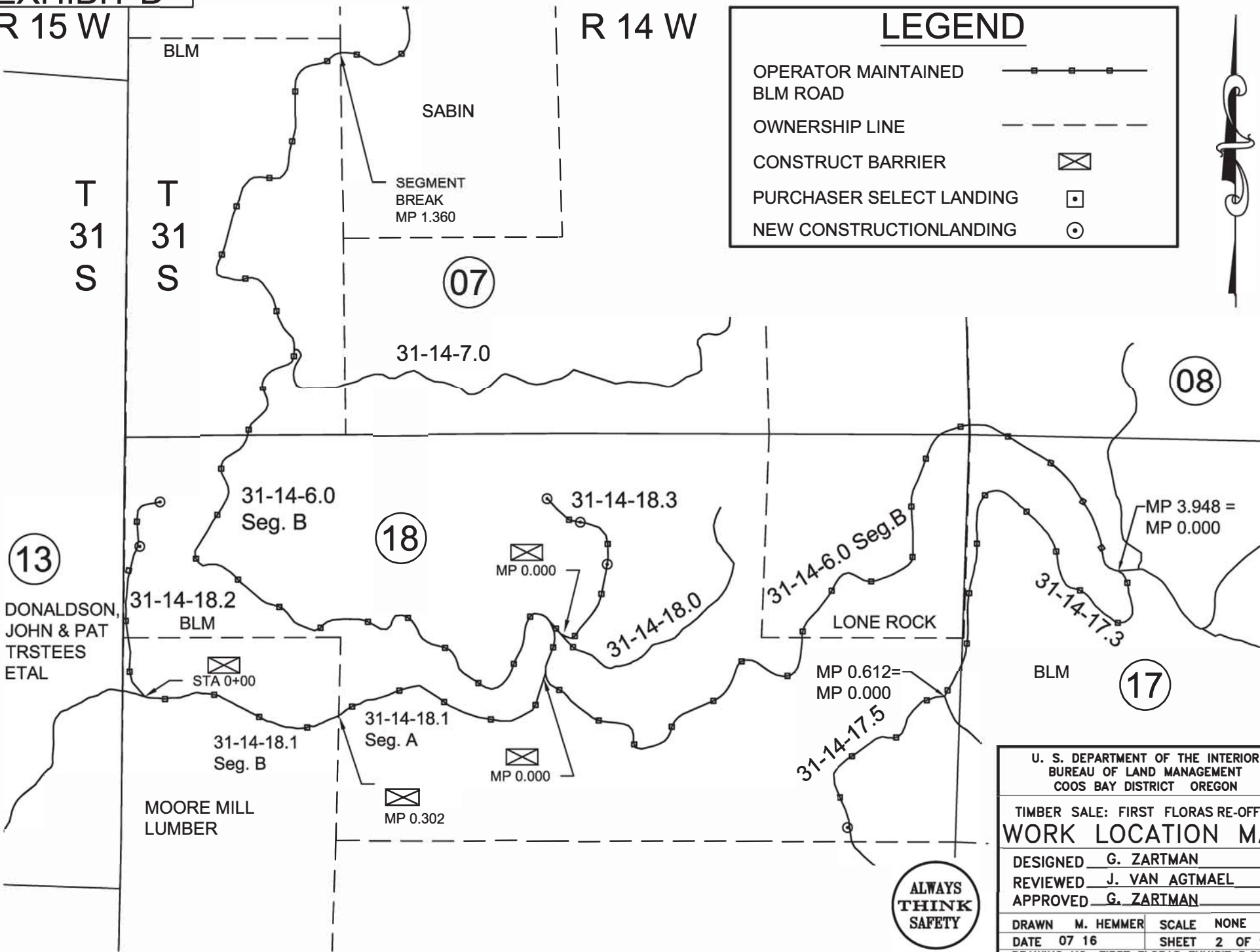
R 14 W

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31  
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## LEGEND

- OPERATOR MAINTAINED 
- BLM ROAD 
- OWNERSHIP LINE 
- CONSTRUCT BARRIER 
- PURCHASER SELECT LANDING 
- NEW CONSTRUCTION LANDING 



13

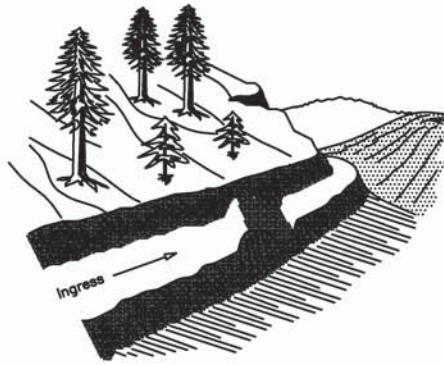
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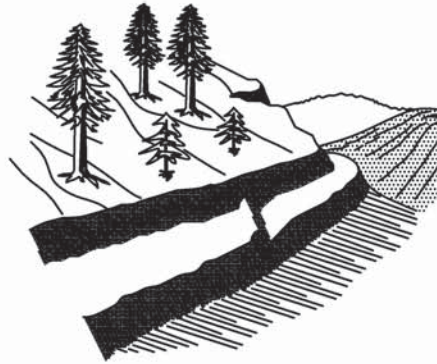
17

ALWAYS  
THINK  
SAFETY

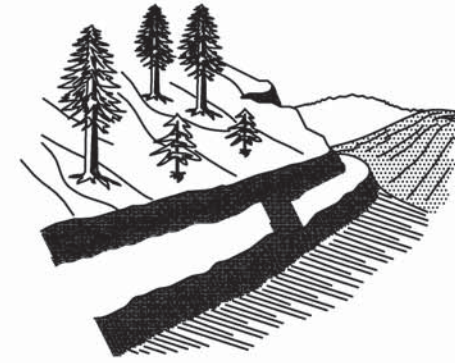
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TIMBER SALE: FIRST FLORAS RE-OFFER	
<b>WORK LOCATION MAP</b>	
DESIGNED	G. ZARTMAN
REVIEWED	J. VAN AGTMAEL
APPROVED	G. ZARTMAN
DRAWN	M. HEMMER
SCALE	NONE
DATE	07 16
SHEET	2 OF 9
DRAWING NO. FIRST FLORAS EXHIBIT D.DWG	



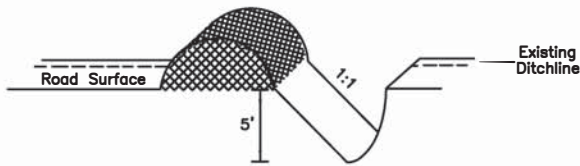
BARRIERS



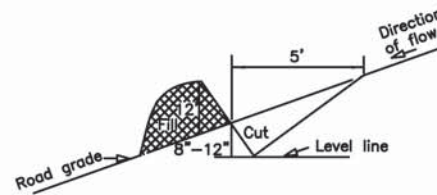
WATER BAR



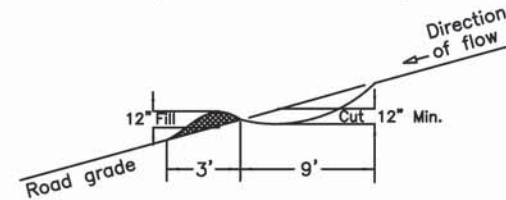
WATER DIP



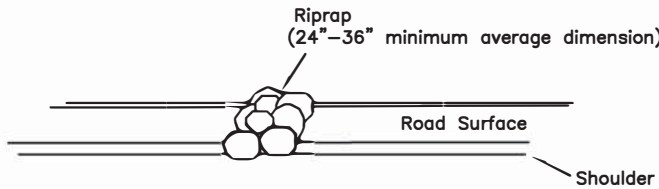
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(NOT TO SCALE)



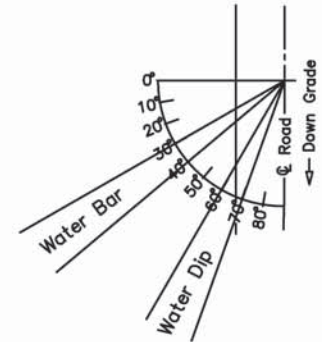
(NOT TO SCALE)



NOTES

1. ALL BARRIERS, WATER BARS, AND WATER DIPS AS REQUIRED SHALL BE CONSTRUCTED AS SHOWN.
2. LOCATIONS WILL BE AS DIRECTED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER BARS SHALL BE SKEWED 30° - 40°.
4. ALL WATER DIPS SHALL BE SKEWED 60° - 70°.
5. ALL WATER BARS AND WATER DIPS SHALL BE CUT INTO THE ROADBED FROM THE DITCHLINE.
6. DITCHLINES SHALL BE BLOCKED WITH EXCAVATED MATERIAL (DITCH DAM) DOWNGRADE FROM ALL WATER BARS AND WATER DIPS.
7. EXCAVATED MATERIAL FROM BARRIER TRENCH SHALL BE PLACED ON THE SIDE NEAREST THE BEGINNING OF THE ROAD.
8. OUTLETS OF WATER DIPS MUST BE ROCKED ON FILL SLOPE.
9. RIPRAP BARRIERS SHALL BE AT LEAST 4' HIGH, 4' DEEP, AND OF SUFFICIENT WIDTH TO COMPLETELY BLOCK THE ROADWAY AND ANY ADJACENT SHOULDERS THAT CAN BE TRAVELED WITH A VEHICLE.
10. ALL BERMS INCLUDING WATER BARS, WATER DIPS, AND EARTHEN BARRIERS SHALL BE COMPACTED TO 85% OF MAXIMUM DENSITY.

SKEW DIAGRAM



WATER DIP/BAR SPACING

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



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

TIMBER SALE: FIRST FLORAS RE-OFFER  
BARRIER/EROSION CONTROL DETAIL

DESIGNED G. ZARTMAN  
REVIEWED J. VAN AGTMAEL  
APPROVED G. ZARTMAN

DRAWN M. HEMMER SCALE NONE  
DATE 07 16 SHEET 3 OF 9  
DRAWING NO. FIRST FLORAS EXHIBIT D.DWG

ROAD NUMBER	SURFACING				SOIL STABILIZATION	EARTHEN BERM BARRIER
	TOP **	AGG. MAINT. ROCK **	AGG. MAINT. ROCK **	BASE		
SPEC. NO.	1200	1200	1000	1000	1800	
UNITS	CY	CY	CY	CY	AC	
GRADE	C	C	B	B		
31-14-6.0 A, B		***				
31-14-17.3		***				
31-14-17.5		***				
31-14-18.0		***				
31-14-18.1 A, B					1.6	2
31-14-18.2					1.0	1
31-14-18.3					0.9	1
TOTALS:		50			3.5	4

ITEM	SIZE	GRADE
PITRUN		
1000 (BASE)	3"	8
1100	4"	B
1200 (TOP)	1 1/2"	C
1400 (RIPRAP)	34"	A
	28"	B
CHIP SEAL ROCK	3/4"	S

- \* FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NPT PAY ITEMS.
- \*\* ROCK QUANTITIES ARE TRUCK MEASUREMENT.
- \*\*\* AS DIRECTED BY THE AUTHORIZED OFFICER.



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON	
TIMBER SALE: FIRST FLORAS RE-OFFER ESTIMATE OF QUANTITIES	
DESIGNED	G. ZARTMAN
REVIEWED	J. VAN AGTMAEL
APPROVED	G. ZARTMAN
DRAWN	M. HEMMER
SCALE	NONE
DATE	07 16
SHEET	4 OF 9
DRAWING NO. FIRST FLORAS EXHIBIT D.DWG	

ROAD MAINTENANCE SPECIFICATIONS

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

Section

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

GENERAL - 3000

- 3001 - The Purchaser shall be required to maintain all roads as shown on the Exhibit D map of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3002 - The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the standards required in Exhibit C of this contract.
- 3003 - The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 - The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 - The Purchaser shall blade and shape the road surface and shoulders with a motor patrol grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3102 - The Purchaser shall furnish and place 50 CY of aggregate surfacing conforming to the requirements in Section 1200 of Exhibit C of this contract on the roadway (and landings) at locations and in the amounts designated by the Authorized Officer.
- 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 and no less than once per year when actual work is ongoing.

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 waterbars 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.

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 nonhauling 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:

<u>Road No.</u>	<u>Work</u>
31-14-18.1 A	<p>Construct water bars in accordance with Sheet No. 3 of the Exhibit D and as directed by the Authorized Officer.</p> <p>Re-establish the ditch-line at the junction with BLM Road No. 31-14-6.0 B.</p> <p>Construct earthen berm barriers at the junction with BLM Road No. 31-14-6.0 B and at the property line at MP 0.302 in accordance with Sheet No. 3 of the Exhibit D and as directed by the Authorized Officer.</p> <p>Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.</p>
31-14-18.1 B	<p>Construct water bars in accordance with Sheet No. 3 of the Exhibit D and as directed by the Authorized Officer.</p> <p>Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.</p>
31-14-18.2	<p>Construct water bars in accordance with Sheet No. 3 of the Exhibit D and as directed by the Authorized Officer.</p> <p>Construct an earthen berm barrier at the junction with Moore Mill Road No. 31-14-18.1 B in accordance with Sheet No. 3 of the Exhibit D and as directed by the Authorized Officer.</p> <p>Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.</p>
31-14-18.3	<p>Construct water bars in accordance with Sheet No. 3 of the Exhibit D and as directed by the Authorized Officer.</p> <p>Re-establish the ditch-line at the junction with BLM Road No. 31-14-18.0.</p> <p>Construct an earthen berm barrier at junction with BLM Road No. 31-14-18.0 in accordance with Sheet No. 3 of the Exhibit D and as directed by the Authorized Officer.</p> <p>Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.</p>

Sale: F. Floras ReReOffer  
 Sale Date: 05/22/2020  
 Prep. By : M.BAILEY  
 Tract No: 2017.0033

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 . . . . .	\$2,379.69
(5.2B) Culverts, Catch Basins, Downspouts . . . . .	\$2,004.87
(5.2C) Grading, Ditching . . . . .	\$3,705.66
(5.2D) Slide Removal and Slump Repair . . . . .	\$0.00
(5.2E) Dust Palliative (Water) . . . . .	\$0.00
(5.2F) Surface Repair (Aggregate) . . . . .	\$1,363.60
(5.2G) Other . . . . .	\$0.00
<b>Total Purchaser Maintenance Allowances (5.2A-5.2G)</b>	<u>\$9,453.82</u>
(2.1-5.2G) Cost ( \$0.00 + \$9,453.82) = \$9,453.82 Cost/MBF \$9,453.82 / 1228 MBF = \$7.70/MBF	
	<u>\$7.70/MBF</u>
(5.2H) Decommissioning . . . . .	\$3,928.94
(5.2H) Cost/MBF \$3,928.94/1228 MBF =	<u>\$3.20/MBF</u>
(2.1-5.2H) Cost ( \$0.00 + \$9,453.82 + \$3,928.94) = \$13,382.76	
<b>Total Cost/MBF (Excluding Road Use) \$13,382.76/1228 MBF =</b>	<u>\$10.90/MBF</u>

**Purchaser Operational Maintenance**

**Move In**

Equipment	No Move	Cost/ Units x in	Dist x 50 Mi	Sub- Factor	= total
Motor Grader:	1	1	\$414.00	1.37	\$567.18
Back Hoe:	1	1	\$308.00	1.37	\$421.96
Loader:			\$414.00	0.63	\$0.00
Water Truck:	1	1	\$96.00	1.37	\$131.52
Dump Truck:	1	1	\$91.00	1.37	\$124.67
Excavator:	1	1	\$414.00	1.37	\$567.18
Roller:	1	1	\$414.00	1.37	\$567.18

(5.2A) Total \$2,379.69

**Culvert Maintenance - Including Catch basins and Downpipes**

Miles	x Cost/Mi	= Subtotal
5.23	\$383.34	\$2,004.87

(5.2B) Total \$2,004.87

**Grading (Includes Ditches and Shoulders)**

Miles	x Cost/Mi	x Freq	= Subtotal
Blade w/ Ditch:	5.23	\$708.54	1 \$3,705.66
Blade w/o Ditch:	0.00	\$434.19	0 \$0.00

(5.2C) Total \$3,705.66

**Slide and Slough removal, Slump Repair (15 sta-yds. ea.)**

Type	No Slides	Hours	Equip	= Subtotal
Equipment	/Slumps	x Each	x Cost	
Grader:	0	0	\$142.72	\$0.00
Loader:	0	0	\$102.93	\$0.00
Backhoe:	0	0	\$87.60	\$0.00

(5.2D) Total \$0.00

**Dust Palliative (Water)**

Spreading Hours

No Miles	Freq / MPH	Truck = Hours	x Days	x /Day	= Hours
0.00	0		0	0	0
Load & Haul =		0.0	0	0	0
Total Hours =		0			

Truck Cost: \$79.82/Hr. x 0.0 Hours = \$0.00

(5.2E) Total \$0.00

**Surface Repair (Aggregate)**

Quarry / Source Name: S. Floras CR-SURFACE

Production Cost:	50.0 CY x \$14.30/CY	=	\$715.00
Haul to Stockpile:			
Grades > 15%	50.0 CY x ((\$1.78/CY x 3.00 Mi) + \$1.18)	=	\$326.00
Grades <= 15%	50.0 CY x ((\$0.89/CY x 2.00 Mi) + \$1.18)	=	\$148.00
State / Co Roads	50.0 CY x ((\$0.39/CY x 0.80 Mi) + \$1.18)	=	\$74.60
Process with Grader:	50.0 CY x \$0.90/CY	=	\$45.00
Compaction:	50.0 CY x \$1.10/CY	=	\$55.00
		SubTotal	<u>\$1,363.60</u>

(5.2F) Total \$1,363.60

**Other**

Fallen Timber Cutting:	0.0 Hours x \$0.00/Hour	=	\$0.00
Brush Cutting/Tree Trimming:	0.0 Hours x \$0.00/Hour	=	\$0.00
Oil/Asphalt Materials:	Lump Sum	=	\$0.00
Signing for Dust Palliatives:	Lump Sum	=	\$0.00
	Lump Sum	=	\$0.00
	Lump Sum	=	\$0.00
	Lump Sum	=	\$0.00
	Lump Sum	=	\$0.00
	Lump Sum	=	\$0.00

(5.2G) Total \$0.00

**Decommissioning**

**Other Costs**

Road Number	Cubic Yds Pullback Material		Qty Waterbars		Qty Earthen Barriers	= Total
31-14-18.1 A	(0x\$1.80)	+	(8x\$55.93)	+	(2x\$167.80)	= \$783.04
31-14-18.1 B	(0x\$1.80)	+	(6x\$55.93)	+	(0x\$167.80)	= \$335.58
31-14-18.2	(0x\$1.80)	+	(8x\$55.93)	+	(1x\$167.80)	= \$615.24
31-14-18.3	(0x\$1.80)	+	(7x\$55.93)	+	(1x\$167.80)	= \$559.31

(Other Cost) Total \$2,293.17

**Time & Equipment**

31-14-18.3 Seed, fertilizer, & mulch:	0.93 ac @ \$464.71/ac	=	\$432.18
31-14-18.2 Seed, fertilizer, & mulch:	0.96 ac @ \$464.71/ac	=	\$446.12
31-14-18.1 B Seed, fertilizer, & mulch:	0.71 ac @ \$464.71/ac	=	\$329.94
31-14-18.1 A Seed, fertilizer, & mulch:	0.92 ac @ \$464.71/ac	=	\$427.53

(5.2H) Decommissioning Total \$3,928.94

SALE VOLUME: 1228 NET MBF

A. ROAD USE FEES - Payable to Private Company:

COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	USE FEE per MBF	TOTAL FEES
Moore Mill	RWA-C-333	31-14-17.5	167	\$3.25	\$542.75
Moore Mill	RWA-C-364	31-14-18.1B	255	\$2.19	\$558.45
Sabin	RE-C-277	31-14-6.0A	1228	\$0.00	\$0.00
Rieber	RE-C-461	31-14-6.0A	1228	\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
TOTAL USE FEE:					\$1,101.20

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. /MBF/Mile	Subtotal	TOTAL FEES
					\$0.00		\$0.00	\$0.00
			0.00		\$0.00		\$0.00	

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

a. Timber Haul:

Surface Type	ROAD NUMBER	NET MBF	ROAD MILES	SURFACE REPLACEMENT /MBF/Mile	TOTAL FEES
Rock	31-14-17.3	167	0.61	\$0.73	\$74.37
Rock	31-14-6.0B	167	1.10	\$0.73	\$134.10
Dirt	31-14-18.2	106	0.08	\$0.00	\$0.00
Dirt	31-14-18.2	255	0.18	\$0.00	\$0.00
Dirt	31-14-18.1A	255	0.15	\$0.00	\$0.00
Dirt	31-14-18.1A	271	0.15	\$0.00	\$0.00
Rock	31-14-6.0B	438	0.07	\$0.73	\$22.38
Dirt	31-14-18.3	494	0.07	\$0.00	\$0.00
Dirt	31-14-18.3	571	0.07	\$0.00	\$0.00
Dirt	31-14-18.3	790	0.12	\$0.00	\$0.00
Rock	31-14-18.0	790	0.03	\$0.73	\$17.30
Rock	31-14-6.0B	1228	1.42	\$0.73	\$1,272.94
					\$0.00
			4.05		\$1,521.09

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

Surface Type	COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	ROAD MILES	& MAINT. /MBF/Mile	TOTAL FEES
Rock	Moore Mill	RWA-C-333	31-14-17.5	167	0.26	\$0.73	\$31.70
NAT	Moore Mill	RWA-C-364	31-14-18.1 B	255	0.23	\$0.00	\$0.00
Rock	Sabin	RE-C-277	31-14-6.0 A	1228	1.31	\$0.00	\$0.00
Rock	Rieber	RE-C-461	31-14-6.0 A	1228	0.05	\$0.00	\$0.00
							\$0.00
							\$0.00
					1.85		\$31.70

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX. 5.23 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:	\$1,101.20	\$0.90	\$31.70	\$0.03	\$0.00	\$0.00
2. BLM MAINTAINED ROADS:			\$0.00	\$0.00	\$0.00	\$0.00
3. BLM OPERATOR-MAINTAINED ROADS:			\$1,521.09	\$1.24	\$0.00	\$0.00
	\$1,101.20	\$0.90	\$1,276.26	\$1.26	\$0.00	\$0.00

TOTAL	\$1,521.09	\$/MBF	\$1.24
MAINTENANCE OBLIGATION PAYABLE TO BLM:			

Exhibit F

SPECIAL PROVISIONS TO CONTROL THE SPREAD OF NOXIOUS WEEDS

Vehicle and Equipment Cleaning

1. Cleaning shall consist of the removal of soil and debris by washing with a high pressure hose or steam cleaning. Cleaning and inspection sites will be agreed to by Purchaser and BLM. All petroleum product residues shall be contained at wash sites and dealt with in accordance to DEQ standards. Contractor shall provide an approved plan for the cleaning station that demonstrates that the station meets all DEQ and water quality regulations. All necessary permits shall be obtained by the contractor.
2. All equipment parts shall be cleaned as designated by the Authorized Officer, including removal of tractor belly plates, in accordance with Sec.1 above.

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

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Bureau of Land Management**

District: Coos Bay  
Sale Number: ORC00-TS-2017.0033  
Sale Name: First Floras Re-offer

**Stumpage Computation**

Species	Pond Value	Logging Costs (-)	Profit & Risk (-)	Marg. * Logs (+)	Stumpage
Western Hemlock	\$330.12	\$272.21	\$49.52		\$8.39
Douglas fir	\$429.43	\$272.21	\$64.41		\$92.81
Red Alder	\$310.64	\$272.21	\$46.60		(\$8.17)

**Appraised Price Summary**

Species	Volume	Unrounded Stumpage		Adjusted Appraised Price		
		\$/M	Value	\$/M	Rounded to Nearest \$0.10	Value
Western Hemlock	710.0	\$8.39	\$5,956.90	\$33.01	\$33.00	\$23,430.00
Douglas fir	482.0	\$92.81	\$44,734.42	\$53.61	\$53.60	\$25,835.20
Red Alder	36.0	(\$8.17)	(\$294.12)	\$31.06	\$31.10	\$1,119.60
<b>TOTALS</b>			\$50,397.20			\$50,384.80

*Douglas fir stumpage has been reduced to compensate for the deficit values in species the are below minimum price policy (10% of pond value).*

**LOG GRADES (By Percent)**

Species	SM	2 saw	3 saw	4 saw	Camp run
Western Hemlock					
Douglas fir					
Red Alder					

Appraisal Approved by: \_\_\_\_\_



**United States  
Department of the Interior  
Bureau of Land Management**

**Timber Appraisal**

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**Sale Name:** First Floras Reoffer 3.0  
**BLM District:** Coos Bay DO  
**Contract #:** ORC00-TS-2017.0033  
**Sale Type:** Advertised

**Sale Date:** Friday, June 26, 2020  
**Unit of Measure:** 16' MBF  
**Contract Term:** 36 months  
**Contract Mechanism:** 5450-3  
Sale of Timber - Lump Sum

**SBA Set-Aside**

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**Content**

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

**Prepared By:** Stover, Douglas R - 5/18/2020

**Approved By:** Davis, Brian P - 5/18/2020



Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
PD	Curry	31S	14W	18	Lot 5,6,7, W1/2NE1/4, SE1/4NE1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Western Hemlock	710.0	761.0	771.0	7,771	284	2,441
Douglas Fir	482.0	506.0	514.0	9,162	209	2,702
Red Alder	36.0	39.0	43.0	782	154	464
<b>Totals</b>	<b>1,228.0</b>	<b>1,306.0</b>	<b>1,328.0</b>	<b>17,715</b>	<b>647</b>	<b>5,607</b>

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
23.0	0.0	3.0	26.0	47.2

Comments:

Because some species appraised below pond value, we took the surplus species value and applied that value to the below pond value species. This adjustment was done on a spreadsheet titled Deficit Surplus Spreadsheet First Floras Reoffer.

**Logging Costs**

Stump to Truck	\$107,686.06
Transportation	\$118,728.46
Road Construction	\$86,041.62
Maintenance/Rockwear	\$10,704.03
Road Use	\$1,101.20
Other Allowances	\$10,013.44
<b>Total:</b>	<b>\$334,274.81</b>
<b>Total Logging Cost per MBF:</b>	<b>\$272.21</b>

**Utilization Centers**

<u>Location</u>	<u>Distance</u>	<u>% of Net Volume</u>
Winchester	113.6 miles	100 %

**Profit & Risk**

Profit	10 %
Risk	5 %
<b>Total Profit &amp; Risk</b>	<b>15 %</b>

**Tract Features**

<b>Quadratic Mean DBH</b>	15.3 in
<b>Average GM Log</b>	74 bf
<b>Average Volume per Acre</b>	47.2 mbf
<b>Recovery</b>	93 %
<b><u>Net MBF volume:</u></b>	
<b>Green</b>	1,228.0 mbf
<b>Salvage</b>	0 mbf
<b>Export</b>	0 mbf
<b><u>Ground Base Logging:</u></b>	
<b>Percent of Sale Volume</b>	47 %
<b>Average Yarding Slope</b>	10 %
<b>Average Yarding Distance</b>	204 ft
<b><u>Cable Logging:</u></b>	
<b>Percent of Sale Volume</b>	53 %
<b>Average Yarding Slope</b>	40 %
<b>Average Yarding Distance</b>	250 ft
<b><u>Aerial Logging:</u></b>	
<b>Percent of Sale Volume</b>	0 %
<b>Average Yarding Slope</b>	0 %
<b>Average Yarding Distance</b>	0 ft

**Cruise**

**Cruise Completed** March 2017  
**Cruised By** Craig Wooley , Doug Stover  
**Cruise Method**  
 For all Harvest Units: The timber volumes for all tree species are based on a 3P cruise , with 154 randomly selected sample trees.

**Stumpage Computation**

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Western Hemlock	2,441	710.0	\$330.12	\$49.52	\$272.21	\$0.00	\$33.10 *	\$23,501.00
Douglas Fir	2,702	482.0	\$429.43	\$64.41	\$272.21	\$0.00	\$92.80	\$44,729.60
Red Alder	464	36.0	\$310.64	\$46.60	\$272.21	\$0.00	\$31.10 *	\$1,119.60
<b>Totals</b>	<b>5,607</b>	<b>1,228.0</b>						<b>\$69,350.20</b>

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

**Percent of Volume By Log Grade**

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				71.0 %	26.0 %	3.0 %	

**Comments:** Hemlock prices from publications using low prices

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir				59.0 %	33.0 %	8.0 %	

**Comments:** Doug Fir prices from publications using low prices

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	Camp Run
Red Alder		38.0 %	39.0 %	23.0 %		

**First Floras Reoffer 3.0**

**Unit Summary**

**ORC00-TS-2017.0033**

**Unit: 1**

Species	Net	Gross Merch	Gross	# of Trees
Western Hemlock	627.0	672.0	680.0	2,147
Douglas Fir	119.0	126.0	128.0	390
Red Alder	22.0	24.0	26.0	250
<b>Totals:</b>	<b>768.0</b>	<b>822.0</b>	<b>834.0</b>	<b>2,787</b>

**Net Volume/Acre: 54.9 MBF**

Regeneration Harvest	14.0
Partial Cut	0.0
Right of Way	0.0
<b>Total Acres:</b>	<b>14.0</b>

**Unit: 2**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	165.0	173.0	176.0	1,452
Western Hemlock	2.0	2.0	2.0	13
<b>Totals:</b>	<b>167.0</b>	<b>175.0</b>	<b>178.0</b>	<b>1,465</b>

**Net Volume/Acre: 33.4 MBF**

Regeneration Harvest	5.0
Partial Cut	0.0
Right of Way	0.0
<b>Total Acres:</b>	<b>5.0</b>

**Unit: 3**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	147.0	154.0	156.0	660
Western Hemlock	56.0	60.0	61.0	203
Red Alder	9.0	10.0	11.0	130
<b>Totals:</b>	<b>212.0</b>	<b>224.0</b>	<b>228.0</b>	<b>993</b>

**Net Volume/Acre: 53.0 MBF**

Regeneration Harvest	4.0
Partial Cut	0.0
Right of Way	0.0
<b>Total Acres:</b>	<b>4.0</b>

**Unit: R/W**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	51.0	53.0	54.0	200
Western Hemlock	25.0	27.0	28.0	78
Red Alder	5.0	5.0	6.0	84
<b>Totals:</b>	<b>81.0</b>	<b>85.0</b>	<b>88.0</b>	<b>362</b>

**Net Volume/Acre: 27.0 MBF**

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	3.0
<b>Total Acres:</b>	<b>3.0</b>

<b>Total Stump To Truck</b>	<b>Net Volume</b>	<b>\$/MBF</b>
\$107,686.06	1,228.0	\$87.69

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Small Yarder	GM MBF	690.0	\$84.75	\$58,477.50	fuel:\$3.00 per gallon, stroke delimeter, saws:\$400.00 per day, short yarding, small trees, 8 loads per day, 4500 bf per load
Wheel Skidder	GM MBF	616.0	\$78.91	\$48,608.56	fuel:\$3.00 per gallon, manual felling, short yarding, small trees, 4500 bf per load 9 loads per day
<b>Subtotal</b>				<b>\$107,086.06</b>	

**Additional Costs**

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Lift Tree	Each	4.0	\$150.00	\$600.00	
<b>Subtotal</b>				<b>\$600.00</b>	

**Additional Moves**

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

Total	Net Volume	\$/MBF
\$118,728.46	1,228.0	\$96.68

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Winchester	113.6	Saw Logs	GM MBF	1,306.0	\$90.91	\$118,728.46	100 %

**Comments:**

SBA sale

**Engineering Allowances**

Total	Net Volume	\$/MBF
\$97,846.85	1,228.0	\$79.68

Cost Item	Total Cost
Road Construction:	\$86,041.62
Road Maintenance/Rockwear:	\$10,704.03
Road Use Fees:	\$1,101.20

**Comments:**

Exhibit D= \$9,453.82 & Exhibit E = \$1,250.21

Total Maintenance (D&E) = \$10,704.03

Total	Net Volume	\$/MBF
\$10,013.44	1,228.0	\$8.15

**Environmental Protection**

Cost item	Total Cost
CWD	\$480.00
Equipment Washing	\$1,950.00
<b>Subtotal</b>	<b>\$2,430.00</b>

**Miscellaneous**

Cost item	Total Cost
Tree girdling	\$1,192.50
Cut and deck private right of way	\$4,336.01
<b>Subtotal</b>	<b>\$5,528.51</b>

**Slash Disposal & Site Prep**

Cost item	Total Cost
Landing pullback	\$982.08
Landing pile covering	\$1,072.85
<b>Subtotal</b>	<b>\$2,054.93</b>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Name of Bidder	
Tract Number	ORC00-TS-2017.0033
Sale Name	First Floras Re-Offer
Sale Notice ( <i>dated</i> )	05/28/2020
BLM District	Coos Bay District 1300 Airport Lane North Bend, Oregon 97459

**DEPOSIT AND BID FOR: (Check One):**

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

<input checked="" type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input type="checkbox"/> Written Bid for Oral Auction Sale
Time for opening sealed bids    10:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Sale commences <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
On ( <i>date</i> )    06/26/2020    Place    Coos Bay District Office	On ( <i>date</i> )                                  Place

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

Required bid deposit is \$ 5,100.00 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. It is understood that no bid for less than the appraised price on a unit basis per product and species will 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	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	482	X	=	X	=
western hemlock	MBF	710	X \$33.00	= \$23,430.00	X	=
red alder	MBF	36	X \$31.10	= \$1,119.60	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
TOTAL PURCHASE PRICE						



If sale contract is executed, undersigned is liable for total purchase price including all modifications executed under the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for taking may be less or more than total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on *(date)*

*(Check appropriate box, sign in ink, and complete the following)*

<input type="checkbox"/> Signature, if firm is individually owned	Name of firm <i>(type or print)</i>
<input type="checkbox"/> Signatures, if firm is a partnership or L.L.C.	Business address, include zip code <i>(type or print)</i>
<input type="checkbox"/> Corporation organized under the state laws of	<i>(To be completed following oral bidding)</i>
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By <i>(signature)</i>
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM.  Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) “Bid for Timber and/or Other Wood Products or (1a) “Vegetative Resources ” (2) Time bids are to be opened (3) Legal description

### 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. 1181a); 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 examination and inspection of the Timber and/or Other Wood Products or Vegetative Resources and his 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** – Sealed or written bids for not less than the advertised appraised price, per Timber and/or Other Wood Products or Vegetative Resources must be submitted in duplicate to the District Manager who issued *Timber and/or Other Wood Products or Vegetative Resources Sale Notice*.

(a) **Sealed Bid Sales** – Bids will be received until time for opening which is set out in the Notice. Enclose both copies of 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, tract 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) **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 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 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 taking may be less or more than 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 may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

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 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.

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 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 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 cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as 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 and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to “*unprocessed timber*”. Special reporting, branding and painting of logs may be included in contract provisions.\*

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



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 taking may be less or more than total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on *(date)*

*(Check appropriate box, sign in ink, and complete the following)*

<input type="checkbox"/> Signature, if firm is individually owned	Name of firm <i>(type or print)</i>
<input type="checkbox"/> Signatures, if firm is a partnership or L.L.C.	Business address, include zip code <i>(type or print)</i>
<input type="checkbox"/> Corporation organized under the state laws of	<i>(To be completed following oral bidding)</i>
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By <i>(signature)</i>
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM.  Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) “Bid for Timber and/or Other Wood Products or (1a) “Vegetative Resources ” (2) Time bids are to be opened (3) Legal description

### 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. 1181a); 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 examination and inspection of the Timber and/or Other Wood Products or Vegetative Resources and his 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** – Sealed or written bids for not less than the advertised appraised price, per Timber and/or Other Wood Products or Vegetative Resources must be submitted in duplicate to the District Manager who issued *Timber and/or Other Wood Products or Vegetative Resources Sale Notice*.

(a) **Sealed Bid Sales** – Bids will be received until time for opening which is set out in the Notice. Enclose both copies of 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, tract 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) **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 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 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 taking may be less or more than 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 may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

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 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.

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 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 has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.

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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

Timber Sale Number	ORC00-TS-2017.0033
Timber Sale Name	First Floras Re-Offer
Sale date	06/26/2020

**INDEPENDENT PRICE DETERMINATION CERTIFICATE**

<p>Bidder or Offeror (Name)</p> <hr/> <p>A. By submission of this bid or proposal, each bidder or offeror certifies, and in the case of a joint bid or proposal, each party thereto certifies as to its own organization, that in connection with this sale:</p> <p>1. The prices in this bid or proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices, with any other bidder or offeror or with any competitor;</p> <p>2. Unless otherwise required by law, the prices which have been quoted in this bid or proposal have not been knowingly disclosed by the bidder or offeror and will not knowingly be disclosed by the bidder or offeror prior to opening, in the case of a bid, or prior to award, in the case of a proposal, directly or indirectly to any other bidder or offeror or to any competitor; and</p> <p>3. No attempt has been made or will be made by the bidder or offeror to induce any other person or firm to submit or not to submit a bid or proposal for the purpose of restricting competition.</p> <p>B. Each person signing this bid or proposal certifies that:</p> <p>1. He is the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein and that he has not participated, and will not participate, in any action</p>	<p>Address (include zip code)</p> <hr/> <p>contrary to A. 1 through 3 above; or</p> <p>2. (i) He is not the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to A. 1 through 3, above, and as their agent does hereby so certify; and</p> <p>(ii) He has not participated, and will not participate, in any action contrary to A. 1 through 3, above.</p> <p>C. This certification is not applicable to a foreign bidder or offeror submitting a bid or proposal for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.</p> <p>D. A bid or proposal will not be considered for award where A. 1, 3, or B., above, has been deleted or modified. Where A. 2, above, has been deleted or modified, the bid or proposal will not be considered for award unless the bidder or offeror furnishes with the bid or proposal a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, determines that such disclosure was not made for the purpose of restricting competition.</p>
<p>_____                  (Authorized Signature of Bidder)</p>	<p>_____                  Name and Title (<i>type or print</i>)</p>

**INSTRUCTIONS**

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

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



Agency Forest

Sale Name

USDI-BLM Coos Bay District

First Floras Re-Offer



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

The purchaser certifies, at the time of executing timber sale Contract No. ORC00-TS-2017.0033, 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 \_\_\_\_\_