COOS BAY DISTRICT OFFICE UMPQUA RESOURCE AREA SOUTH COAST

SALE NO. ORC00-TS-2013.0003, BLUE 35 CT

SALE DATE: April 26, 2013

SALE TIME: 10:00 a.m.

SET-ASIDE SALE

COOS COUNTY: OREGON: CBWR: ORAL AUCTION: Bid deposit required: \$55,800.00

All timber designated for cutting on: T. 26 S., R. 12 W., Sec. 35, SW¹/₄NE¹/₄, S¹/₂NW¹/₄, S¹/₂; T. 27S, R. 12 W., Sec. 2, NW¹/₄NW¹/₄, 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
8038	2476	Douglas-fir	2767	\$162.70	\$450,190.90
388	35	western hemlock	47	\$83.40	\$3,919.80
88	6	Port-Orford-cedar	8	\$203.40	\$1,627.20
2540	185	western red cedar	228	\$228.40	\$52,075.20
1499	250	red alder	327	\$150.50	\$49,213.50
12,553		Totals	3,377		\$557,026.60

THIS TIMBER SALE HAS BEEN CRUISED, APPRAISED, AND ADVERTISED BASED UPON SCRIBNER BOARD FOOT MEASURE (16 FOOT LOG). THE MINIMUM BID FIGURES SHOWN BY SPECIES ARE DOLLARS PER THOUSAND BOARD FEET (MBF). THE MINIMUM BID INCREMENT WILL BE \$0.10 PER MBF. SCRIBNER BOARD FOOT VOLUMES (32 FOOT LOG) BY SPECIES ARE DISPLAYED FOR INFORMATIONAL PURPOSES.

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

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

<u>CRUISE INFORMATION</u>: With respect to merchantable trees of all species in all cruise strata: the average DBHOB is 15.7 inches: the average gross merchantable log contains 63 bd. ft.; the total gross volume is approximately 3566 thousand bd. ft.; and 95% recovery is expected. The average DBHOB for Douglas-fir is 16.8 inches; and the average gross merchantable log contains 69 bd. ft. The following cruise methods were used

for volume determination:

<u>VARIABLE PLOT</u>: Timber volumes in Units 1-2 were based on a variable plot cruise. Using a 20 basal area factor (BAF), 270 plots were measured; 205 trees were randomly selected to be sampled. A portion of the sample trees have been felled, bucked, and scaled and a portion of 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. Volume from both methods is then expanded to a total stratum volume.

<u>100% CRUISE</u>: The western hemlock, red alder and western redcedar timber volumes within the road right-of-way were based on a 100% cruise using form class tables for estimating board foot volume of trees in 16-foot logs.

<u>3P</u>: The Douglas-fir within the road right-of-way has been cruised using the 3P system to select 50 sample trees. The samples have been cruised and their volumes computed using form class tables for estimating board foot volumes of trees in 16-foot logs. The volumes are then expanded to a total stratum volume.

<u>CUTTING AREA</u>: Two units totaling approximately 233 acres must be partial cut and 5 acres of road right-of-way must be clear cut.

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

<u>DIRECTIONS TO SALE AREA</u>: From Coos Bay, travel south on Highway 101 to Coos City-Sumner Co. Road. Turn left, travel approximately 7.9 miles and turn left onto Blue Ridge Road No. 26-12-4.2. Travel 2.7 miles to Road No. 26-12-35.0 road. Refer to Exhibits A and A-1 for unit locations.

<u>ROAD USE & MAINTENANCE</u>: Purchaser shall pay a maintenance obligation to the Government totaling \$10,110.40. Operator maintenance is required on 4.0 miles of road.

ROAD CONSTRUCTION:

Road construction/improvement estimates include the following:

37.25 stations Class SN-12 road

55.42 stations Class SN-16 road

Surfacing:

846 cu. yds. 1.5 inch-minus crushed hardrock

2332 cu. yds. 3 inch-minus crushed hardrock

1210 cu. yds. 6 inch-minus crushed hardrock

Riprap barrier 60 cu. yds.

Drainage:

30 linear feet of 18-inch CPE culvert

120 linear feet of 12-inch CMP culvert

1 culvert marker

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

SPECIAL PROVISIONS:

- 1. Directional felling is required away from roads, property lines, posted boundaries, orange-painted reserve trees, Stream Channels, and snags.
- 2. No-harvest zones will be maintained adjacent to Stream Channels. Corridor trees felled within the no-harvest zone shall be left on site.
- 3. Full-log suspension will be required over Stream Channels. Where full suspension cannot be achieved, yarding will occur during the dry season.
- 4. Within safety standards, harvest trees would be directionally felled away from any Stream Channels; however, trees that must be felled toward or parallel to the Stream Channel should be temporarily retained on site to provide bank armoring if other trees need to be yarded across the channel.
- 5. Snags that are felled for safety reasons will be left on site.
- 6. Cutting or yarding during high sap flow, March 31 through July 1, may be restricted by the Authorized Officer.
- 7. Hauling on dirt surfaced roads will be permitted between July 1 and October 15, unless dry conditions extend the hauling season.
- 8. In the Partial Cut Area, conifer trees will be bucked to a maximum of 40-foot lengths.
- 9. In the Cable Yarding Area, yarding shall be completed with cable-type equipment capable of lateral yarding 75 feet each side of the skyline road.
- 10. In the Cable Yarding Area, one-end suspension is required. Lift trees and/or intermediate support trees may be necessary to achieve suspension.
- 11. Harvest operations in the Ground-based Yarding Area, shall be done using a harvester-forwarder system, tractor, rubber tired skidder, or track mounted log loader.
- 12. The location and use of yarding roads and harvester roads in the Partial Cut Area shall be approved by BLM prior to use by the Purchaser.
- 13. Road building and logging equipment will be washed prior to moving into the Contract Area to minimize the spread of noxious weeds.
- 14. Hand or machine piling is required in Roadside Hazard Reduction Area.
- 15. BLM will assume supervisory responsibility for disposal of logging slash
- 16. Depending on winter haul conditions the Authorized Officer may require additional erosion control to prevent sediment from entering stream channels.
- 17. Pacific yew and hardwood trees other than red alder are reserved from cutting, except within road right-of-ways.

SCHEDULE I

- Sec. 40. 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 on the Reserve Area, shown on Exhibit A, and all blazed, orange painted and/or posted trees which are on or mark the boundaries of the Reserve Area:
- b. All orange painted reserve trees marked above and or below stump height within the Partial Cut Area, shown on Exhibit A.
- c. All existing standing dead trees within the Partial Cut Area except those trees which must be felled to permit safe working operations. Snags felled for safety reasons shall be left on site.
- d. Pacific yew and hardwood trees, other than red alder, are reserved from cutting, except within road right-of-ways.
- e. All existing coarse woody debris within the Contract Area, unless the Authorized Officer determines the volume to be included in the Exhibit B, which is attached hereto and made a part hereof.
 - f. All Bearing Trees with metal tags which mark property corners.

SPECIAL PROVISIONS - Page 1 of 19 pages

Sec. 41. SPECIAL PROVISIONS. Purchaser shall comply with the special provisions which are attached hereto and made a part hereof unless otherwise authorized, in writing, by the Authorized Officer:

a. Periodic Payment and First Installment Adjustment

(1) Notwithstanding the provisions of Sec. 3(b), the amount of the first installment may be reduced by the Government when the Contracting Officer requests the Purchaser to interrupt or delay operations for a period expected to last more than thirty days during the operating season. Such interruption or delay must be beyond the Purchaser's control. Operating Season shall be defined, for this purpose, as the time of year in which operations of the type required are normally conducted and not specifically restricted under the contract. The first installment may be reduced to five percent of the installment amount listed in Sec. 3(b), during the delay period. The Purchaser must request such a reduction in writing. When the Contracting Officer notifies the Purchaser that operations may proceed, the purchaser shall have fifteen days after such notification to return the first installment to the full value specified in Sec. 3(b). Failure to return the first installment to the full

SPECIAL PROVISIONS – Page 2 of 19

value within the allotted time will be considered a material breach of contract. No timber shall be cut or removed from the contract area until the first installment is restored to the full amount.

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

b. 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 prework conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved.
- (2) Before beginning operations on the contract area for the first time, or after a shutdown of ten or more days, the Purchaser shall notify the Authorized Officer in writing of the date he plans to begin operations. He shall also notify the Authorized Officer in writing if he intends to cease operations for any period of ten or more days
- (3) Directional felling is required away from roads, property lines, posted boundaries, orange-painted reserve trees, no-harvest areas and snags.
- (4) Cutting or yarding during high sap flow, March 31 through July 1 of the same calendar year, may be restricted by the Authorized Officer.
- (5) Hauling on dirt surfaced roads will be permitted between July 1 and October 15 unless dry conditions extend the hauling season, as directed by Authorized Officer.
- (6) All trees designated for cutting in the Partial Cut Area, shall be felled to the lead of the pre-marked yarding corridors or pre-marked skid roads.
- (7) All trees designated for cutting in the Partial Cut Area shall be felled, limbed, topped, and cut into log lengths not to exceed 40 feet before yarding.
- (8) In the Cable Yarding Area, shown on Exhibit A rub trees may be cut and yarded after all lateral yarding is complete on each setting, as directed by Authorized Officer.

SPECIAL PROVISIONS – Page 3 of 19

- (9) In the Cable Yarding Area, yarding shall be completed with cable-type equipment. A carriage capable of yarding in a fixed position 75 feet in either direction from the skyline corridor will be required.
- (10) Complete re-spooling of lines required in making cable yarding road changes in Cable Yarding Area.
- (11) One-end suspension will be required for in-haul of logs during cable yarding operations. Lift trees and/or intermediate supports may be required to obtain the required suspension.
- (12) Cable yarding corridors will be 150 feet apart, as measured from the tail hold or where the skyline reaches the far edge of the unit, as measured perpendicular to the preceding corridor.
- (13) Where yarding road locations allow, cable yarding will be done so that corridors are parallel rather than radiating from one central landing, and are placed to avoid a Stream Channel, shown on Exhibit A. Where yarding is to occur over a Stream Channel, the yarding roads will be kept as perpendicular to the Stream Channel as possible.
- (14) A minimum 35 foot slope distance no-harvest zone shall be maintained on either side of a Stream Channel. Corridor trees felled within the no-harvest zone will be felled toward the Stream Channel and left in place. All trees within the no-harvest zone are painted orange, except those reserved in Sec. 40 (d.).
- (15) Where cable yarding must occur through the no-harvest area adjacent to a Stream Channel, logs will be fully suspended to protect stream banks. Where full suspension is not feasible, operations over any Stream Channel with visible surface flow will occur only during the dry season, as designated by the Authorized Officer. Bare mineral soil within 50 feet of a Stream Channel, which has been exposed by yarding, shall be covered with slash to trap sediment and prevent erosion.
- (16) Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain written approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed in writing by the Authorized Officer
 - (17) For Ground-based Yarding Area, as shown on the Exhibit A:
 - (a) A harvester-forwarder system, tractor, rubber tired skidder, or track mounted log loader may be used. Any equipment must be approved in writing by the Authorized Officer prior to any operations.
 - (b) 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.
 - (c) Ground-based operations shall be conducted when soil moisture content is below 25% plastic limit, as determined by the Authorized Officer. Unseasonably dry or wet weather may shorten or extend the operating season. The Purchaser shall be notified in writing when

- weather conditions extend the operating season. The Purchaser shall cease operations during periods of rain and shall be notified, after a soil-moisture assessment by the Authorized Officer, when operations may resume.
- (d) Trees shall be felled manually or by a mechanized harvester utilizing a "cut-to-length" system capable of directionally felling, cutting to length, and depositing slash along the harvesting path.
- (e) The yarding machine shall utilize slash on skid trails and continually place slash on trails as to not expose bare mineral soil.
- (f) The yarding machine must be approved by the Authorized Officer. It must be equipped with a grapple or an extendable and retractable arch and fairlead which is an integral part of the machine that is capable of lifting the leading end of the turn clear of the ground. All logs in the Ground-based Yarding Area shall be yarded with their leading end clear of the ground. A forwarder or tracked log loader may also be used to yard logs within the Ground-based Yarding Area.
- (g) If the forwarding vehicle does not achieve full suspension, forwarding roads will be decompacted through the use of equipment such as an excavator, water barred to prevent pooling of water, and covered with logging debris as directed by the Authorized Officer. This must take place during the same operating season.
- (h) Primary skid trails shall use existing trails wherever possible, be spaced at least 100 feet apart, and be no wider than 12 feet as measured between reserve trees.
- (i) Primary skid trails shall be blocked with cull material after completion of harvest where the Authorized Officer determines vehicle access is possible.
- (j) All ground-based equipment shall be restricted to operating on slopes less than 35% and shall not operate within 50 feet of a Stream Channel.
- (k) Primary skid trails with a slope greater than 15% that 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 15th.
- (18) Before cutting and removing any trees necessary to facilitate logging in the Partial Cut Area, the Purchaser shall identify the location of the harvester roads, cable yarding roads and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser's identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following conditions must be met:
- (a) All cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of each cable yarding corridor shall be limited to 12 feet.

- (b) The Purchaser may immediately cut and remove additional timber to clear cable yarding corridors; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees have been marked with blue paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. Purchaser shall retain trees used tailholds, lift and support for snag recruitment, as directed by authorized officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Sec. 3.(b). of the contract or sufficient bonding has been provided in accordance with Sec. 3.(d). of the contract.
- (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Authorized Officer and that such timber shall be sold at the unit prices shown in the Exhibit B of this contract unless the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that any tree that exceeds 24 inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Sec. 8 of the contract.
- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer which, under Sec. 10 of the contract, constitutes a violation of the contract, and, under Sec. 13 of the contract, may constitute a trespass rendering the Purchaser liable for damages under applicable law.
- (e) If authorization is withdrawn, the Authorized Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least three working days prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in the Exhibit B of the contract or in accordance with Sec. 8 or Sec. 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Authorized Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
- (f) The Government may reserve trees previously designated for cutting and removal by applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding road corridors when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription. This may include the replacement of trees damaged by storm events, insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total

SPECIAL PROVISIONS – Page 6 of 19

Purchase Price stated in Sec. 2 of this contract shall be reduced accordingly through a unilateral modification to the contract executed by the Authorized Officer.

- (19) In accordance with the requirements of Sec. 8, it has been determined that it is in the best interest of the government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the Contract Area that is: obstructing needed cable yarding corridors, hazardous to workers in accordance with applicable State safety laws, codes, or regulations and must be cut or removed so that the Purchaser can continue active falling or yarding operations; needed for guyline trees to meet all applicable State safety laws, codes or regulations and must be cut or removed so the Purchaser can continue active yarding operations; or are severely damaged from the normal conduct of felling or yarding operations. The Purchaser is therefore authorized to cut and remove such additional timber in accordance with the provisions of Sec. 8; provided, however, that:
- (a) The Purchaser shall identify each tree sold and cut in accordance with this provision by marking the surface of the stump immediately after cutting with a large "X", cut with a chain saw, and by painting the stump with fluorescent red paint so that the stump can be visually located from a distance of not less than 100 feet;
- (b) Concurrently with falling, paint the butt of each tree with fluorescent red paint. When butt logs are yarded, deck separately for inspection by Authorized Officer;
- (c) The Purchaser conforms to all requirements of Sec. 8 of this contract; provided that (1) the unit prices for additional timber within unit boundaries shall be the unit prices shown in Exhibit B of this contract, or the reappraised unit prices arrived at in accordance with Sec. 9 of this contract, and (2) timber outside of unit boundaries shall be sold at fair market value;
- (d) No timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3. (b) or 3.(d) have not been made; and,
- (e) Permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
 - (1) failed to properly mark any stump with the "X" mark.
 - (2) failed to properly mark any butt log with the "X" mark.
 - (3) cut any tree that was reserved for tree improvement and/or wildlife habitat.
 - (4) cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
 - (5) cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.
 - (6) cut any reserve tree that was not severely (as defined during the pre-work conference and documented in the approved logging plan) damaged from felling and yarding operations.
 - (7) cut more than the minimum number of trees necessary to properly serve as guyline

anchor stumps.

- (8) cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
- (9) cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tailhold trees.

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

- (20) As directed by Authorized Officer, for a distance of 100 feet from the perimeter of each landing, all logs more than six inches diameter at the large end and longer than eight feet in length shall be decked or windrowed at the location designated by the Authorized Officer except logs removed from the contract area. If a log or a piece of a log meeting or exceeding the above specifications is bucked all portions of that log shall be yarded and decked at the above described location.
- (21) In the Partial Cut Area, significant damage to residual trees shall be kept to a minimum. Significant damage is defined as any tree having greater than twelve square inches of the bark removed from the circumference of the tree, any tree with top diameter broken at three inches in diameter or greater, or any tree being visually root-sprung. If the Authorized Officer determines that damage has become commonplace due to a lack of caution or operator negligence, a written warning of non-compliance will immediately be issued to the Purchaser. The Authorized Officer may suspend operations until safeguards are put in place to protect the reserve trees. If the damage continues, it will result in a violation of Sec. 13 of the contract, Timber Trespass, and the Purchaser will be held liable for damages. Any reserved trees significantly damaged or destroyed by the Purchaser shall be valued at current market value of the merchantable volume for purposes of determining damages.
- (22) In the Partial Cut Area, any reserved hardwood cut to facilitate logging shall be limbed, topped and yarded and shall be decked separately as directed by the Authorized Officer. Felled reserved hardwoods shall remain property of the Government.
- (23) To control the spread of noxious weeds, the Purchaser shall conduct all operations involving the transportation and use of equipment and vehicles in strict accordance with the requirements shown on Exhibit F, which is attached hereto and made part hereof. All road building and logging equipment which will be used off of existing roads will be washed prior to moving into the Contract Area to minimize the spread of noxious weeds.
- (24) Road Nos. 26-12-35.0, 26-12-35.1 and 26-12-4.2 shall be kept clear of trees, rock, dirt and other debris so far as is practicable and shall not be blocked by operations for more than 20 minutes. Multiple operators may be using these roads simultaneously. Coordinating with other operators when using Road Nos. 26-12-35.0, 26-12-35.1 and 26-12-4.2 roads will be required.
- (25) Post-harvest Trail Slash Removal and Rehabilitation: Immediately following the conclusion of harvest activities, the Purchaser shall be responsible for slash removal and rehabilitation of Recreation Trails,

SPECIAL PROVISIONS – Page 8 of 19

shown on Exhibit A, that are adversely impacted from harvest activities. Slash removal and rehabilitation of trails is limited to areas within or immediately adjacent to the Partial Cut Area. Rehabilitation shall include treatment of the actual trail surface, areas above the trail, areas immediately adjacent to the sides of the trail and any location where yarding corridors cross the trail. The Purchaser shall notify the Authorized Officer before trail rehabilitations work begins.

- (a) Within the existing trail, all logging residue and logging related debris, regardless of diameter class, brush and damaged trees shall be completely removed from the trail path. Such material suspended less than eight feet above the trail surface shall be felled and removed unless otherwise instructed by the Authorized Officer. Material that is greater than eight feet in height above the trail may be left in place unless specifically identified by the Authorized Officer for removal.
- (b) Grooves or ruts left in the trail from yarding operations shall be restored to pre-harvest condition.
- (c) In locations where yarding roads intersect trails, the Purchaser shall seed and mulch exposed mineral soils above and below the intersection of the yarding road and trail.
- (d) Trails shall be physically disconnected from yarding roads by placement of slash above and below the trail on the yarding roads to limit erosion and discourage trail expansion by recreationalists.

c. Road Construction

- (1) The Purchaser shall construct, improve or renovate a road in strict accordance with the road plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) Any required construction, improvement, or renovation of structures and roads shall 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 1 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 shall, prior to construction of landings, stake all landing locations in accordance with the requirements set forth in Exhibit C. Concurrently with, or at the termination of logging operations, the Purchaser shall pull back and shape onto the landings all overhanging materials to prevent erosion in accordance with the requirements set forth in Exhibit C.

SPECIAL PROVISIONS – Page 9 of 19

5) Road renovation construction/improvement will only occur during the dry season, June 1 through October 1. Unless dry conditions exist that may extend those dates as approved by the authorized officer.

d. Road Use and Maintenance

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

Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices.

Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics, at least 15 days prior to proposed move in. Details shall include:

- (a) axle weights when fully loaded;
- (b) axle spacing;
- (c) transverse wheel spacing;
- (d) tire size;
- (e) outside width of vehicle;
- (f) operating speed;
- (g) frequency of use; and,
- (h) special features (e.g. running tracks, overhang loads, etc.).

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

- (2) At all times during the period of his operations on the contract area, and upon completion of said operations, the Purchaser shall be liable for maintenance and repair of such roads shown on Exhibit D, which is attached hereto and made a part hereof, resulting from wear or damage in accordance with the maintenance specifications as shown on Exhibit D
- (3) The Purchaser is authorized to use the roads shown on Exhibit E, which is attached hereto and made a part hereof, for the removal of Government timber sold under the terms of this contract and for haul of mineral material required under the terms of this contract; provided, that the Purchaser shall pay a Maintenance Obligation to the Government totaling \$10,110.40, as shown on Exhibit E. Unless the total Maintenance Obligation due to the BLM is paid prior to commencement of operations on the contract area, payments shall be made in installments payable in the same manner as and together with payments required by Sec. 3 of this contract. Timber modification volume will be assessed at a rate of \$2.99/MBF for removal of timber over

SPECIAL PROVISIONS – Page 10 of 19

Government controlled roads.

- 4) With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of any BLM controlled road included in Secs. 41(c)(1) and 41(d)3 of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with other users on these roads.
- (5) The Contracting 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. 41(c)(1) and 41(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.
- e. Fire Prevention, Hazard Reduction and Logging Residue Reduction
- (1) BLM will assume supervisory responsibility for disposal of logging slash. The assumption by the Government of all obligations for the disposal or reduction of fire hazard under state law does not relieve the Purchaser of the obligations to perform the fire prevention, hazard reduction and logging residue reduction measures required by this contract.
- (2) <u>Fire Prevention and Hazard Reduction</u>. Primarily for purposes of fire prevention and fire hazard reduction, the Purchaser shall comply with the following provisions:
- (a) Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, the Purchaser shall 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.
- (3) <u>Logging Residue Reduction</u>. Primarily for hazardous fuel reduction, watershed protection and silvicultural purposes, the Purchaser shall comply with the following provisions:

Specifications for Landing and RHRA Piling

(a) In addition to the requirements of Section 15 of this contract, the Purchaser shall be responsible for logging residue reduction at all landing sites in the sale area and in the Roadside Hazard Reduction Area (RHRA), shown on the Exhibit A.

- (b) Within the RHRA, the Purchaser shall (1) remove logging residue for offsite utilization or (2) pile on site for burning, all logging residue one-half inch to four inches (small end diameter) which is greater than two feet in length and is within twenty feet slope distance of the outside edge of the road shoulder. Logging residue includes slash from the harvest operations and related road construction, renovation or improvement. Removal/piling shall be accomplished by hand or with mechanized equipment capable of reaching the required twenty feet without leaving the road surface.
- (c) If offsite utilization is intended, the Purchaser shall upon request from the Authorized Officer, provide information on the method of removal, the total tonnage, the intended use and destination of logging residue being removed from the sale area.
- (d) Any logs or residue, regardless of piece size that is identified in the contract as reserved shall remain the property of the Government and may not be shipped for offsite utilization.
- (e) Prior to commencement of logging residue removal, the Purchaser shall provide advanced notification to the Authorized Officer in order to arrange for on-site inspections of the removal operations. Upon completion of logging residue removal, the Purchaser shall notify the Authorized Officer to arrange for a final inspection of the landing sites and RHRA.
- (f) If the piling/burning method is selected for the RHRA, the material shall be piled in locations designated by the Authorized Officer. All logs or parts of logs that are greater than or equal to six inches in diameter at the small end that are longer than eight feet in length shall not be placed into the burn piles but shall be placed off the road shoulder or adjacent to the road outside of the ditch line. In lieu of piling and only in approved locations, the Authorized Officer may allow for logging residue to be distributed and scattered beyond the twenty foot slope distance of the outside edge of the road shoulder.
- (g) Machine piling of landing debris and slash in the RHRA shall be conducted concurrently with the logging operation or prior to the removal of logging equipment from the contract area. Hand piling of debris in RHRA may be conducted after logging operations have concluded.
- (h) Prior to commencement of piling RHRA, the Purchaser shall contact the Authorized Officer to arrange an on-site inspection on the day piling begins.
- (i) Logging residue within the immediate vicinity of the landing and any residue that overhangs the landing sites that can be reached with the logging equipment on site shall be pulled completely back up onto the landing surface and either piled for burning or segregated for other uses.
- (j) Logging residue meeting the criteria set forth in Sec. 41.b.(20) shall not be piled for burning but shall be segregated into separate piles that are no closer than 20 feet from landing residue piles that will be burned.

SPECIAL PROVISIONS – Page 12 of 19

- (k) If during the course of pile construction or during a final acceptance inspection, the Authorized Officer determines that landing piles contain excessive amounts of logging residue that meets the specifications as described in Sec. 41.b.(20), the purchaser may be required to remove the specified residue from the burn piles.
- (l) Burn piles shall be constructed as upright as possible and have a solid base to prevent toppling. Material extending more than two feet beyond the general contour of the pile shall be cut off and placed on the pile. Pile trimming can be deferred until the time actual pile covering takes place but shall be done before pile covering. All piled material shall be laid perpendicular to the slope. Unless directed by the Authorized Officer, no piles shall be within ten feet of any green trees, snags or marked wildlife trees.

Specifications for RHRA and Landing Pile Covering

- (m) The Purchaser shall place polyethylene sheeting (PE) that is four MIL thickness and black in color over the pile so as to provide an adequate level of protection from fall/winter rains. For most average sized RHRA piles with base dimensions of approximately 10 feet by 10 feet or less, the size of the PE sheeting shall not exceed approximately 100 square feet.
- (n) At landing sites with excessive logging residue that overhangs the landing which cannot be reached and pulled back up onto the landing with equipment on site, the Purchaser shall place additional PE sheeting over the residue concentrations below the landings.
- (o) To meet ignition and combustion needs, larger RHRA and landing piles may require additional PE sheeting in excess of 100 square feet to adequately cover the pile and protect it from wetting fall/winter rains. The Purchaser shall contact the Authorized Officer before any pile covering begins to receive clarification on which piles will require additional covering. At that time, the Authorized Officer will identify all piles that shall have additional PE covering that may exceed the 100 square foot limit. If large piles are covered without the advice and consent of the Authorized Officer and are subsequently found to be inadequately covered, the Purchaser may be required to re-cover or add additional PE coverings to the piles before acceptance is made.
- (p) All PE shall be tied and/or weighted down with slash or logging debris in order to prevent blowing off or sliding. An adequate amount of anchoring material should be placed on top of the pile but no more than twenty percent of the material to be piled may be placed on top of the PE. For piles described in (o), the Authorized Officer may require the removal of PE before burning so the Purchaser should exercise discretion with respect to the method of application, the amount and composition of anchoring material used when securing the PE.
- (q) Piles of residue identified by the Authorized Officer for utilization shall not be covered with PE sheeting.

Specifications Applicable to RHRA and Landing Pile Burning

- 1. The Purchaser shall begin RHRA and landing pile burning within fourteen hours of notification by the Authorized Officer.
- 2. In accordance with the Authorized Officer's verbal instruction, immediately before ignition on piles with PE coverings in excess of 100 sq. ft., the Purchaser may be required to remove as much PE sheeting from the pile as feasibly possible.
- 3. The Purchaser shall dispose of removed PE sheeting in accordance with any applicable Federal, State, and municipal laws. Removed PE sheeting shall not be disposed of in burn piles.
- 4. For each entry, the Purchaser may provide more personnel, equipment and materials than indicated but no less than the minimum requirements below. Minimum personnel, equipment and material requirements for burning RHRA and landing piles are:
 - a. One English-speaking foreman for crew supervision.
 - b. Three persons to assist the foreman in pile burning.
 - c. Four drip torches and sufficient mixed fuel to complete all pile burning.
- 5. A minimum of ninety percent consumption of each pile is required. Some stoking of piled material around pile edges may be required to meet the 90% consumption requirement. Stoking can be accomplished by hand or the Purchaser will be allowed to use heavy equipment (if onsite) to facilitate stoking or re-piling of residue during pile burn operations. If used, the heavy equipment shall not be allowed to operate off of all-weather road surfaces.
- 6. No mop-up is required of the Purchaser.
- (r) Based on the time of year and sequence in which harvest and treatment of the units is completed, burning may be required to be accomplished over multiple seasons using multiple entries.

Time is of the essence in complying with this provision. In the event the Purchaser fails to provide the personnel, equipment and materials required herein, the Purchaser shall be responsible for all additional costs incurred by the Government in disposing of slash including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment, materials and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of burning, and new conditions necessitate additional site preparation work and/or the use of additional personnel and equipment to accomplish the planned burn, the Purchaser also shall be responsible for such additional costs.

f. 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.

(1) All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export under 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 saw logs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters 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 redcedar 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 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 twelve 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 to the Authorized Officer.
 - (4) Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer a "Log

SPECIAL PROVISIONS – Page 15 of 19

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.

(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 logs or more will have a minimum of ten logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of ten 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 \$2,532.75. In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of \$2,532.75 which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in

SPECIAL PROVISIONS – Page 16 of 19

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. Equal Opportunity in Employment

(1) Certification of Nonsegregated Facilities, Form 1140-3, is attached hereto and made a part hereof.

i. 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.

j. 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;
- when, in order to comply with the Endangered Species Act or to protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Coos Bay District Record of Decision (ROD) and Resource Management Plan (RMP), the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (3) 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 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 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.

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 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 fifteen 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 thirty 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 terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, 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 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, marbled murrelet occupied site protection in accordance with the ROD and RMP, 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.

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.

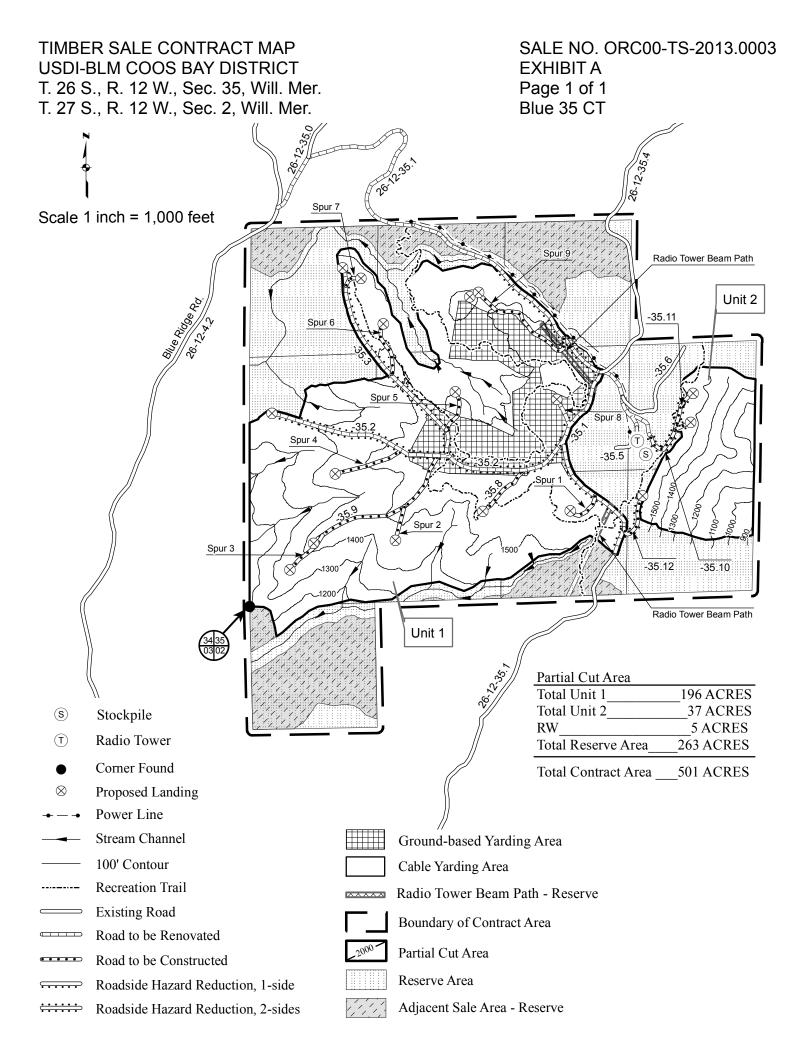
The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims

COOS BAY SALE NO. ORC00-TS-2013.0003 BLUE 35 CT

SPECIAL PROVISIONS – Page 19 of 19

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.

TIMBER SALE CONTRACT MAP SALE NO. ORC00-TS-2013.0003 **USDI-BLM COOS BAY DISTRICT EXHIBIT A-1** T. 26 S., R. 12 W., Sec. 35, Will. Mer. Page 1 of 1 T. 27 S., R. 12 W., Sec. 2, Will. Mer. Blue 35 CT State Highway 241 Coos Bay Catching Sough Chi. Ro. Scale 1" = 1 mile Stock Slough Cnty. Rd. Blue Ridge Rd. Coos City-Sumner Cnty. Rd. Catching Slough Cnty. Rd Sumner Fairview Conty. Rd. S. Sumner Cnty. Rd. Boundary of Contract Area And State of Reserve Area Partial Cut Boundary → Highway Unit 1 Unit 2 Paved Road Rock Road To Fairview



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 6, 9, or 11; (2) When payments are due; and (3) Value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the authorized officer, which has been cut or removed or designated for taking.

Except provided in Section 2, Purchaser shall be liable for the total purchase price even though the 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 the Exhibit A.

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	2,767		
Red Alder	327		
Western red-cedar	228		
Western Hemlock	47		
Port-Orford-cedar	8		
Sale Totals	3,377		

Unit Details (16' MB)

Unit	1	196 Acres	Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	1,997		
Port-Orford-cedar	7		
Red Alder	273		
Western Hemlock	31		
Western red-cedar	187		
Unit Totals	2,495		

Unit 2 37 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	377		
Port-Orford-cedar	1		
Red Alder	52		
Western Hemlock	6		
Western red-cedar	35		
Unit Totals	471		

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Coos Bay Blue 35 CT ORC00-TS-2013-0003

Unit RW 5 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	393		
Red Alder	2		
Western Hemlock	10		
Western red-cedar	6		
Unit Totals	411		

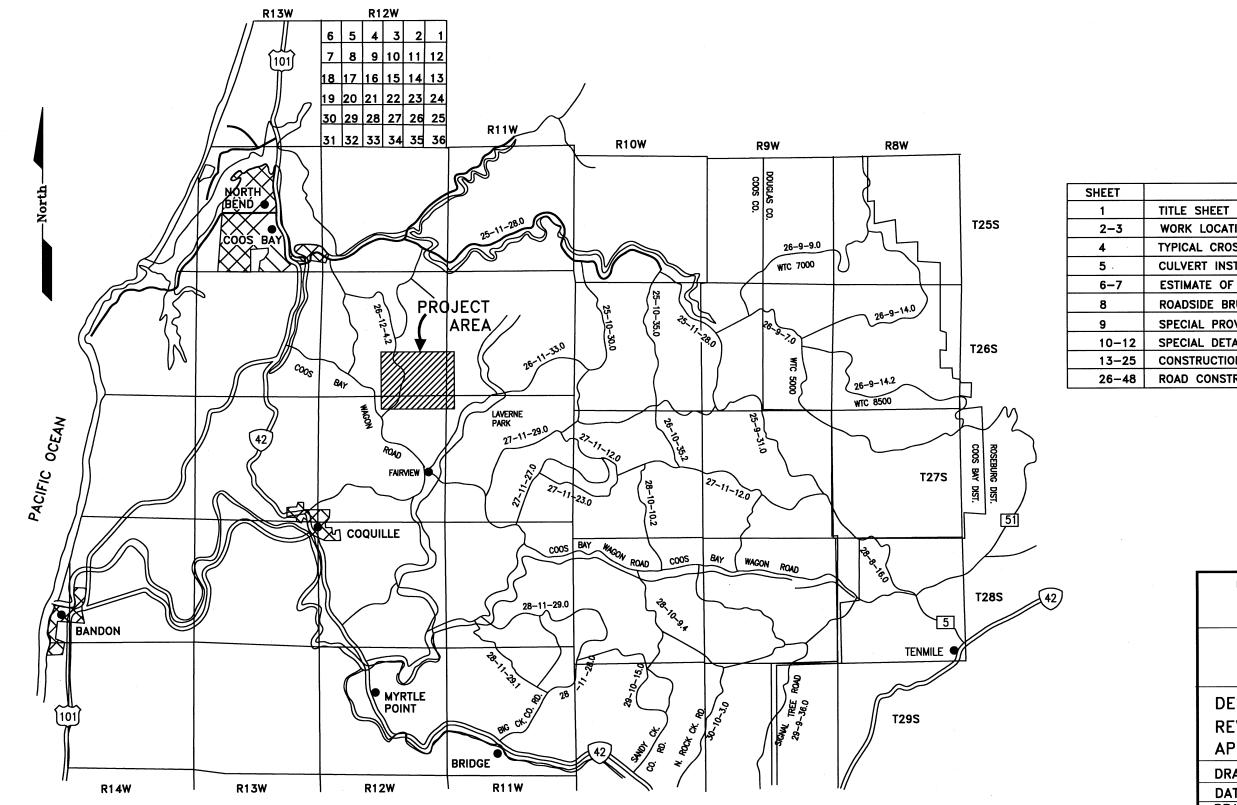
EXHIBIT C

TIMBER SALE NAME: BLUE 35 CT

TIMBER SALE NO.

ORC00-TS-2013.0003

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



SHEET	CONTENTS
1	TITLE SHEET
2-3	WORK LOCATION MAPS
4	TYPICAL CROSS SECTION DETAIL
5 -	CULVERT INSTALLATION DETAILS
6-7	ESTIMATE OF QUANTITIES
8	ROADSIDE BRUSHING DETAIL
9	SPECIAL PROVISIONS
10-12	SPECIAL DETAILS
13-25	CONSTRUCTION DETAILS
26-48	ROAD CONSTRUCTION SPECIFICATIONS

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

TITLE SHEET

DESIGNED J. MENGUITA

REVIEWED J. COUNTS

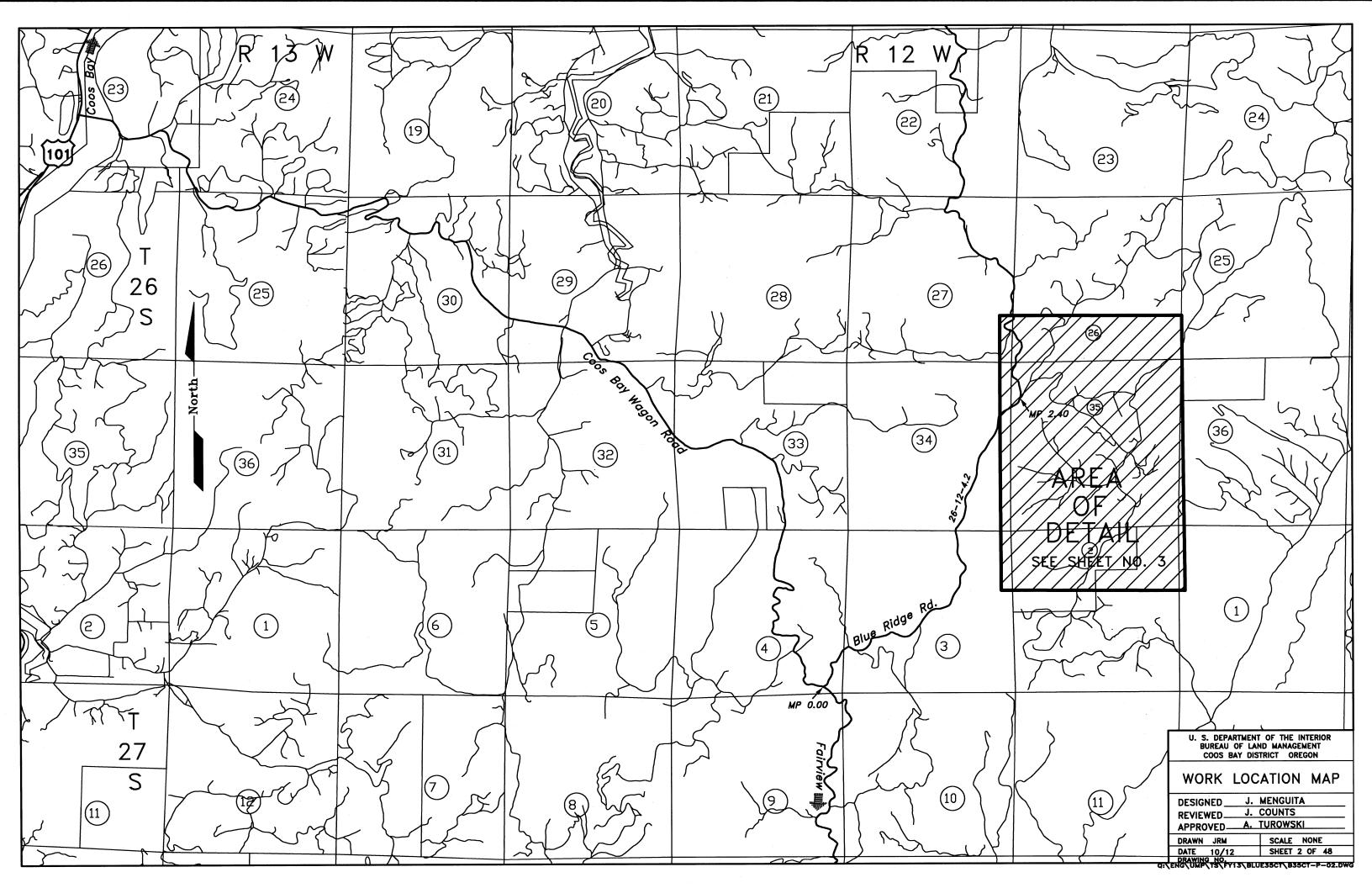
APPROVED A. TUROWSKI

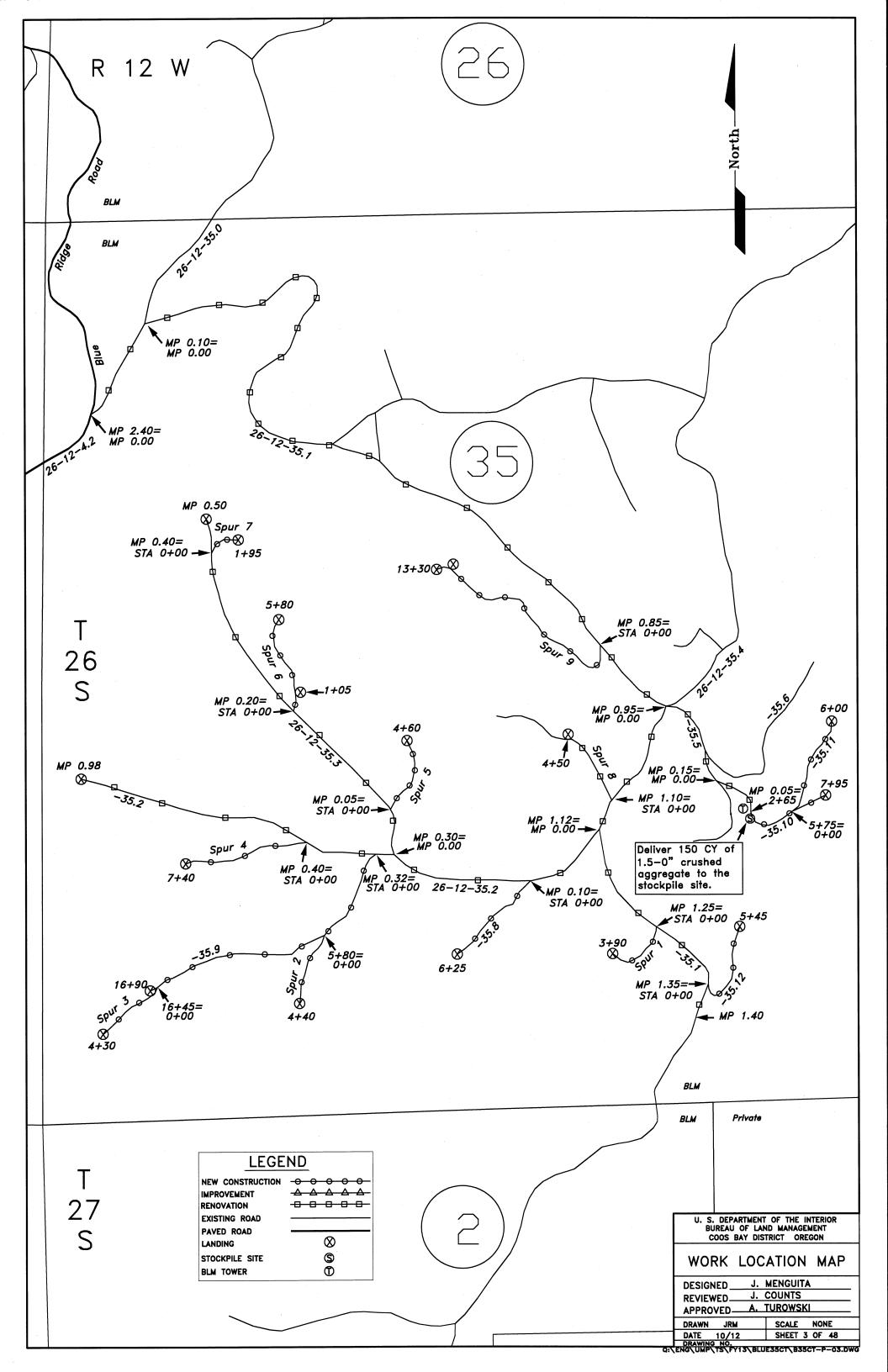
DRAWN JRM SCALE NONE

DATE 10/12 SHEET 1 OF 48

DRAWING NO.

Q:\ENG\UMP\TS\FY13\BLUE35CT\B35CT-P-01.DWG





ROAD MIL	0.00 0.00 0.00 0.00 0.00	TO MILEPOST/ STATION 0.10 1.40 0.98 0.50	LENGTH MILES/ STATIONS 0.10 1.40 0.98 0.50	TYPICAL SECTION TYPE 4 4 4	Subgrade 16' 16'	Ditch	TOP CUT	TOE_ FILL	ROADS L R	Minimum Width	BASE CO Comp. Depth		Grading	Minimum Width	URFACE Comp. Depth	COURSE Type ²	Grading	REMARKS
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26-12-35.3 R 26-12-35.5 R	0.00		0.50		16'	2'		<u> </u>	0 10									
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?6-12-35.8 C		0.15	0.15	4	16'	2'		·	0 10					40 CY	OF SP	OT ROC	CK	
	0+00	6+25	6.25	4	16'	0'	10	5		14'	6"	D	6-0"	12'	6"	D	3-0"	2% OUTSLOPE W/ NO DITCH
26-12-35.9 C	0+00	16+90	16.90	2	16'	0,	10							12'	12"	D	3-0"	2% OUTSLOPE W/ NO DITCH
26-12-35.10 R	0.00	0.05	0.05	4	16'	0'			0 10									2% OUTSLOPE W/ NO DITCH
-35.10 C	2+65	7+95	5.30	4	16'	0,	10	5		14'	6"	D	6-0"	12'	6"	D	3-0"	2% OUTSLOPE W/ NO DITCH
26-12-35.11 C	0+00	6+00	6.00	2	16'	0,	10							12'	12"	D	3-0"	2% OUTSLOPE W/ NO DITCH
26-12-35.12 C	0+00	5+45	5.45	4	16'	0,	10	5		14'	6"	D	6-0"	12'	6"	D	3-0"	2% OUTSLOPE W/ NO DITCH
SPUR NO. 1 C	0+00	3+90	3.90	4	16'	0,	10			14'	6"	D	6-0"	12'	6"	D	3-0"	2% OUTSLOPE W/ NO DITCH
SPUR NO. 2 C	0+00	4+40	4.40	2	16'	0'	10					<u> </u>		12'	12"	D	3-0"	2% OUTSLOPE W/ NO DITCH
SPUR NO. 3 C	0+00	4+30	4.30	1	12'	0'	10				_							2% OUTSLOPE W/ NO DITCH
SPUR NO. 4 C	0+00	7+40	7.40	1	12'	0,	10											2% OUTSLOPE W/ NO DITCH
SPUR NO. 5 C	0+00	4+60	4.60	4	16'	0'	10	-		14'	6"	D	6-0"	12'	6"	D	3-0"	2% OUTSLOPE W/ NO DITCH
SPUR NO. 6 C	0+00	5+80	5.80	1 1	12'	0'	10											2% OUTSLOPE W/ NO DITCH
SPUR NO. 7 C	0+00	1+95	1.95	1 1	12'	0'	10											2% OUTSLOPE W/ NO DITCH
SPUR NO. 8 R SPUR NO. 9 C	0+00 0+00	4+50 13+30	4.50 13.30	1	12' 12'	0'	10		0 10				-					2% OUTSLOPE W/ NO DITCH 2% OUTSLOPE W/ NO DITCH

NOTES

1. EXTRA SUBGRADE WIDTHS

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

WHEN THE RADIUS OF CURVE EQUALS 270-800 ADD 1FT. 165-270 ADD 2FT. 120-165 ADD 3FT.

90-120 ADD 4FT. 60-90 ADD 5FT.

OR AS SHOWN ON PLANS.

MATERIALS	CUT SLOPES	FILL SLOPES
COMMON	1/2:1	1 1/2:1
SOFT ROCK & SHALE	1/2:1	1 1/2:1
SOLID ROCK	1/4:1	REPOSE

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

2. SURFACING TYPE

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

3. SURFACING

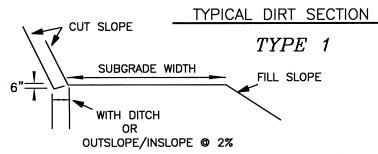
A. TURNOUTS, CURVE WIDENING AND ROAD APPROACH APRONS SHALL BE SURFACED.

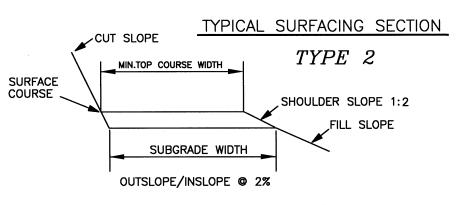
A. 4:1 SLOPE FROM SUBGRADE, OR AS OTHERWISE NOTED. DEPTH MAY BE EXCEEDED TO OBTAIN REQUIRED DRAINAGE.

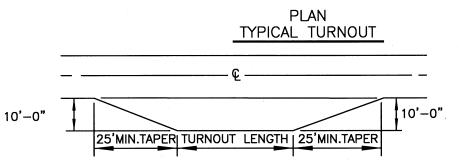
5. <u>TURNOUTS</u>

A. WIDTH 10 FT. IN ADDITION TO SUBGRADE WIDTH, OR AS SHOWN ON THE PLANS.

B. LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS OR NARRATIVE.









** RENOVATION = RIMPROVEMENT = ICONSTRUCTION = C

EXISTING GROUND LINE

DITCH

ALWAYS

THINK

SAFETY

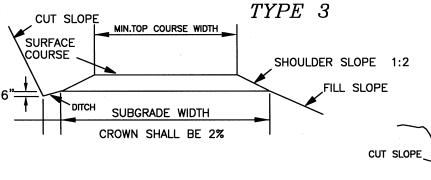
TYPICAL GRADING SECTION

UTILIZE EXCAVATED AND RETRIEVED MATERIALS IN THE CONSTRUCTION OF THE SUB-GRADE.

SUBGRADE WIDTH

CROWN SHALL BE 2%

FILL SLOPE



TYPICAL SURFACING SECTION

TYPE 4 CUT SLOPE MIN.TOP COURSE WIDTH SURFACE MIN.BASE COURSE WIDTH COURSE SHOULDER SLOPE 1:2 FILL SLOPE BASE COURSE DITCH SUBGRADE WIDTH CROWN SHALL BE 2%

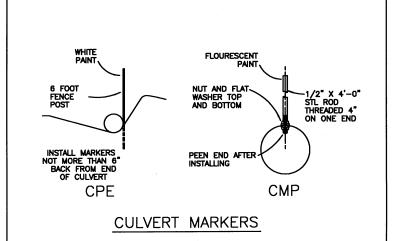
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

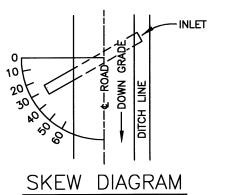
TYPICAL CROSS SECTION DETAIL

J. MENGUITA DESIGNED_ REVIEWED J. COUNTS APPROVED A. TUROWSKI

JRM SCALE NONE DRAWN DATE 10/12 DRAWING NO. SHEET 4 OF 48

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THE GRADE OF CROSSDRAINS SHALL

BE AT LEAST 2% GREATER THAN THE

CATCH BASIN

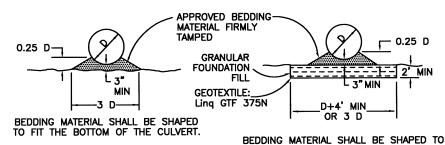
GRADE OF THE DITCH.

COMPACTED EMBANKMENT

SOLID OR ROCK **BOULDER** APPROVED BEDDING MATERIAL FIRMLY **FOUNDATION** 0.25 D 3" MINL **EARTH**

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

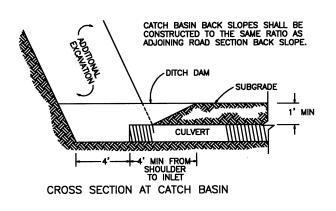
BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION

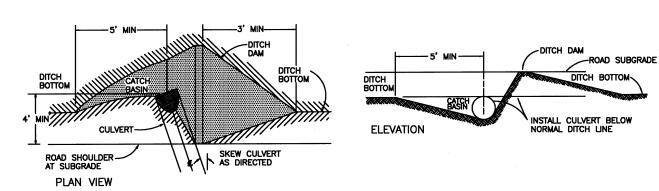


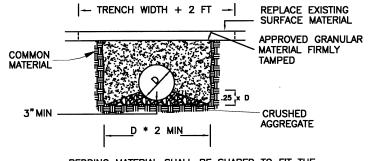
BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR

FIT THE BOTTOM OF THE CULVERT. BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION

BEDDING OF CULVERTS

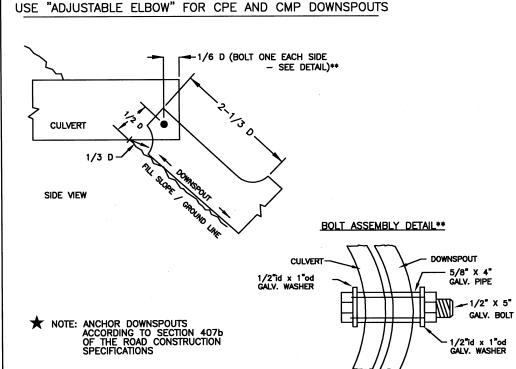


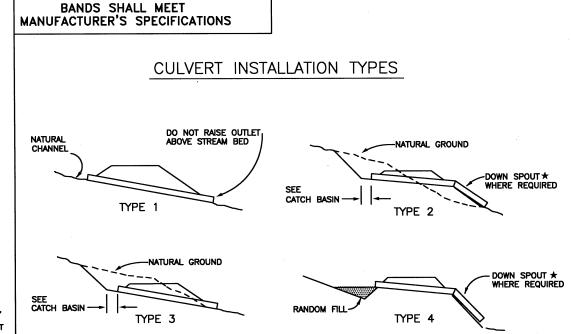


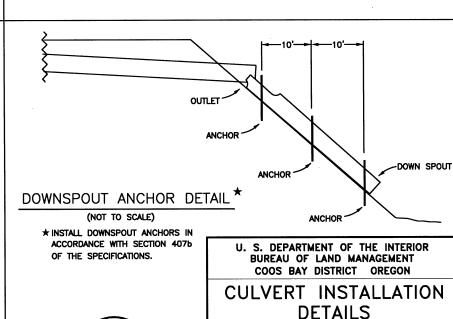


BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. BACKFILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL.

BEDDING OF CULVERTS ON EXISTING SURFACED ROADS







ALWAYS

THINK

SAFETY

DESIGNED J. MENGUITA

APPROVED A. TUROWSKI

DRAWING NO.

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SCALE

NONE SHEET 5 OF 48

REVIEWED J. COUNTS

DRAWN JRM

	z	7	E	1.					EAR	THWORK	(DESIGNE	ED)		СР	E *1	СМЕ	*2	DOWNSPOUTS *3						
2012	l E	01	MEN		2	필일	шŞ									-		FULL	ROUND	FULL	ROUND	·0		
ROAD NUMBER	NEW CONSTRUCTION	RENOVATION	IMPROVEMENT	SLASH TREATMENT	GRUBBING	ROADSIDE BRUSHING	SLOPE STAKING	COMMON	RIPPABLE ROCK	ROCK CUT	FILL	SHORT HAUL 200-5000'	LONG HAUL 5000'+	18"	24"	12"	48"	18" CPE	24" CPE	24" CMP	36" CMP	MARKERS		
SECTION NO.	300	500	500	200	200	2100	2300	300	300	300	300	300	300	400	400	400	400	400	400	400	400	400		
UNITS	STA.	STA.	STA.	ACRES	ACRES	STA.	SIDES	C.Y.	C.Y.	C.Y.	YDS.	STA.YD.	YD.MI.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.		
				ļ																				
26-12-35.0		5.28				<u> </u>																<u> </u>		
26-12-35.1		73.92																				<u> </u>		
26-12-35.2		51.74				51.74								30								1		
26-12-35.3		26.40				26.40																		
26-12-35.5		7.92				7.92																		
26-12-35.8	6.25			0.2	0.1											30								
26-12-35.9	16.90			0.5	0.3											30								
26-12-35.10	5.30	2.65		0.2	0.1																			
26-12-35.11	6.00			0.2	0.1																			
26-12-35.12	5.45			0.2	0.1																			
Spur 1	3.90			0.2	0.1											30								
Spur 2	4.40			0.2	0.1																			
Spur 3	4.30			0.2	0.1																			
Spur 4	7.40			0.4	0.2																			
Spur 5	4.60			0.2	0.1											30								
Spur 6	5.80			0.2	0.1																			
Spur 7	1.95			0.2	0.1																			
Spur 8		4.50		0.2	0.1																			
Spur 9	13.30			0.5	0.3										<u> </u>									
				†																				
				i i		1																		
TOTAL	85.55	172.41		3.6	1.9	86.06								30		120						1		

ESTIMATE OF QUANTITIES *

*1 CPE - CORRUGATED POLYETHYLENE PIPE *2 CMP - CORRUGATED METAL PIPE

*3 SEE DOWNSPOUT INSTALLATION SHEET

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



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

ESTIMATE OF QUANTITIES

DESIGNED J. MENGUITA
REVIEWED J. COUNTS
APPROVED A. TUROWSKI

DRAWN JRM SCALE NONE
DATE 10/12 SHEET 6 OF 48
DRAWING NO.

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ESTIMATE OF QUANTITIES*

			SURF	ACING			OTHER		SEE	DING	
ROAD NUMBER	(3-0") BASE ROCK	(6-0") BASE ROCK	(6-0") LANDING ROCK	SURFACE ROCK	CULVERT SURFACING/ BEDDING ROCK	SPOT ROCK	RIPRAP	GEO- TEXTIILE	SEED, F	JLCH	OTHER (SEDIMENT CONTROL DEVICES)
05051011 110	***	~~~	~~	***	**	**	**		1800	1800	DEVICES
SECTION NO.	1000	1000	1000	1200	1200	1200			DRY	HYDRO	
UNITS	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	S.Y.	ACRES	ACRES	EACH
26-12-35.0	(A)	0	(O		<u> </u>	20 ©	(A)				
26-12-35.1		_		<u> </u>	_	_	(A)				
26-12-35.2	A	0	90	282 ©	10 C		(A)		0.1		
26-12-35.3	(A))	90	44 ©	©		(A)				
26-12-35.5	(A)	(D)	00	<u> </u>	©		A		-		
26-12-35.8	163 A	188 (D	60 D	(C)	©		A		0.1		
26-12-35.9	974 A	(D)	60 D	0	©		A		0.4		ļ
26-12-35.10	136 A	156 D	50 D	0	C		A		0.1		
26-12-35.11	322 A	(A)	60 D	©	C		A		0.1		
26-12-35.12	136 A	156 ©	60 D	©	©	©	(A)		0.1		
Spur 1	95 A	109 D	50 D	©	©		A		0.1		
Spur 2	234 A	Ф	60 O	©	C		A		0.1	•	
Spur 3	(A)	0	0	©	C		A		0.1		
Spur 4	(A)	Θ	0	0	©		A		0.2		
Spur 5	122 A	141 D	0	©	C		A		0.1		
Spur 6	(A)	0	60 D	©	C		A		0.1		
Spur 7	(A)	Θ	0	0	C		A		0.1		
Spur 8	(A)	Θ	0	0	C		A		0.1		
Spur 9	(A)	0	0	0	C	C	(A)		0.3		
Deliver to aggreg	ate (A	0	0	©	©	150 ©	(A)				
stockpile site	I										

TOTALS	2182	750	460	326	10	460			2.1		

GRADE	SIZE
В	PITRUN
A	3"
В	4"
C	2"
D	6"
F	
В	4"
O	1 1/2 "
D	1"
S	3/4 "
	B A B C D F B C D

GRADE INDICATED IN CIRCLE



U.	S. DE	PARTI	MENT OF	THE	INTERIO	₹
			LAND M			
	coos	BAY	DISTRICT	OF	EGON	

ESTIMATE OF QUANTITIES

DESIGNED	J. MENGUITA
REVIEWED	J. COUNTS
APPROVED.	A. TUROWSKI
I AFFRUTED-	

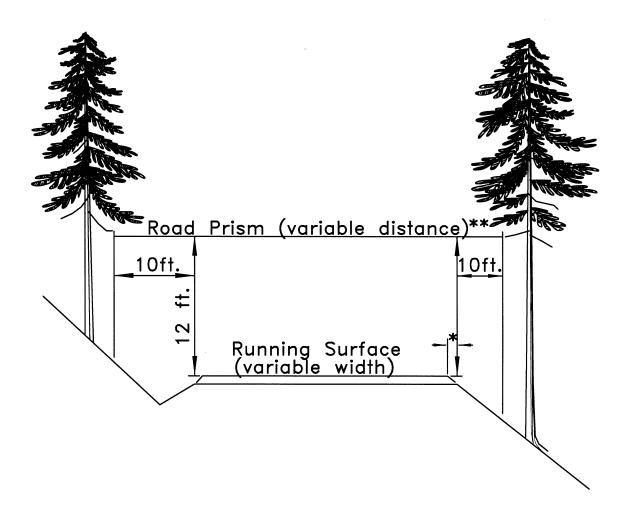
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^{*} FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS. *** BASE AND SURFACE ROCK ARE COMPACTED QUANTITIES.

^{**} LANDING ROCK, SPOT ROCK, BEDDING ROCK, AND RIPRAP ARE TRUCK MEASUREMENT QUANTITIES.



- * 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.

BUREAU OF LAN	
ROADSIDE DET	BRUSHING
DESIGNEDJ.	MENGUITA
REVIEWEDJ.	
APPROVED A.	TUROWSKI
DRAWN JRM	SCALE NONE
DATE 10/12	SHEET & OF 48

U. S. DEPARTMENT OF THE INTERIOR

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ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 9 of 48 sheets

SPECIAL PROVISIONS

Purchaser Responsibility

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

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

Seasonal Restrictions

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

Seasonal restrictions apply to summer haul roads.

Native Seed

The Government will furnish native seed mix. The Purchaser shall pick up the native seed mix at the North Bend, BLM warehouse. The Purchaser shall give the Authorized Officer 3 day notice in advance before pick up. Personnel to contact are Jeanne Standley at (541) 751-4283 or Jennifer Sperling at (541) 751-4336. The native seed mix shall be applied at the rate of 60 pounds per acre (or one pound per 1,000 square feet). Sand can be mixed with the native seed to aid broadcast seeding.

Also, a generic fertilizer of 16-20-16 NPK shall be used at a rate of 200 pounds per acre. Approved mulch material shall be applied at the rate of two tons per acre. Seeding shall be applied according to the dates specified in road specification 1803.

Over-wintering

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

Aggregate stockpiling

Deliver 150 CY of 1.5" minus crushed aggregate to the stockpile site conforming to Section 1200 of the Road Specifications. See Sheet 3 for the site location.

The aggregate will be measured and paid for by the cubic yard. Truck tickets shall be given to the government the day of delivery. Tickets shall have the following information: company name, size of aggregate, date, truck number, stockpile location, amount of cubic yards to the nearest yard. If truck tickets show tonnage, a ton/yard conversion factor of 1.4 will be used. The quantity shall be verified by load tickets from an Oregon certified scales at a moisture content of 6% maximum. The addition of water to the aggregate prior to being weighed will not be permitted.

The completed stockpile shall be neat and be made to occupy the smallest feasible area. The side slopes shall not be flatter than 1:1. Avoid tracking dirt or other deleterious material onto the stockpiled material. Pushing of aggregates with a bulldozer will not be permitted. However, bulldozers may be used in the leveling of aggregates.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 10 of 48 sheets

SPECIAL DETAILS

ROAD NO. 26-12-4.2 (BLUE RIDGE ROAD) Milepost 0.00 to Milepost 2.40

Milepost

Remarks

0.00	Junction with Coos Bay Wagon Road.
2.40	Junction, renovate Road No. 26-12-35.0 right.
	ROAD NO. 26-12-35.0 Milepost 0.00 to Milepost 0.10
Milepost	Remarks
0.00	Junction with Road No. 26-12-4.2,(Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross Section Sheet No. 4.
NOTE:	Apply 20 CY of spot rock conforming to Section 1200 of the Road Specifications and as directed by the Authorized Officer.
0.10	Junction, renovate Road No. 26-12-35.1 right. End renovation.
	RENOVATION OF ROAD NO. 26-12-35.1 Milepost 0.00 to Milepost 1.40
	·
<u>Milepost</u>	Remarks
Milepost 0.00	
	Remarks Junction with Road No. 26-12-4.2,(Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross
0.00	Remarks Junction with Road No. 26-12-4.2,(Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross Section Sheet No. 4. Apply 250 CY of spot rock conforming to Sections 1200 of the Road Specifications and as
0.00 NOTE:	Remarks Junction with Road No. 26-12-4.2,(Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross Section Sheet No. 4. Apply 250 CY of spot rock conforming to Sections 1200 of the Road Specifications and as directed by the Authorized Officer.
0.00 NOTE:	Remarks Junction with Road No. 26-12-4.2,(Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross Section Sheet No. 4. Apply 250 CY of spot rock conforming to Sections 1200 of the Road Specifications and as directed by the Authorized Officer. Junction, construct Spur 9 right.
0.00 NOTE: 0.85 0.95	Remarks Junction with Road No. 26-12-4.2,(Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross Section Sheet No. 4. Apply 250 CY of spot rock conforming to Sections 1200 of the Road Specifications and as directed by the Authorized Officer. Junction, construct Spur 9 right. Junction, renovate Road No. 26-12-35.5 straight ahead.
0.00 NOTE: 0.85 0.95 1.10	Remarks Junction with Road No. 26-12-4.2, (Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross Section Sheet No. 4. Apply 250 CY of spot rock conforming to Sections 1200 of the Road Specifications and as directed by the Authorized Officer. Junction, construct Spur 9 right. Junction, renovate Road No. 26-12-35.5 straight ahead. Junction, renovate Spur 8 right.
0.00 NOTE: 0.85 0.95 1.10 1.12	Junction with Road No. 26-12-4.2, (Blue Ridge Road). Begin slough and slide removal, grading and shaping, and rocking in accordance with Sections 500 and 1200 of the Road Specifications, Typical Cross Section Sheet No. 4. Apply 250 CY of spot rock conforming to Sections 1200 of the Road Specifications and as directed by the Authorized Officer. Junction, construct Spur 9 right. Junction, renovate Road No. 26-12-35.5 straight ahead. Junction, renovate Spur 8 right. Junction, renovate Road No. 26-12-35.2 right.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 11 of 48 sheets

RENOVATION OF ROAD NO. 26-12-35.2 Milepost 0.00 to Milepost 0.98

Milepost	Remarks
0.00	Junction with Road No. 26-12-35.1. Begin brushing, slough and slide removal, grading and shaping, culvert installation, rocking, and soil stabilization in accordance with Sections 400, 500, 1200, 1800, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 4, Culvert Installation Detail Sheet No. 5, and Roadside Brushing Detail Sheet No.8.
NOTE:	Apply a 4" lift of 1.5" crushed aggregate from MP 0.00 to MP 0.32 conforming to Section 1200 of the Road Specifications and as directed by the Authorized Officer.
0.04	Remove existing CMP and dispose of in a legal manner off U.S. Government lands. Install 18" x 30' CPE with marker. (10 CY of 1.5-0" is allocated for fill and resurfacing.)
0.10	Junction, construct Road No. 26-12-35.8 left.
0.30	Junction, renovate Road No. 26-12-35.3 right.
0.32	Junction, construct Road No. 26-12-35.9 left. End rocking.
0.40	Junction, construct Spur 4 left.
0.98	End landing. End renovation.
	RENOVATION OF ROAD NO. 26-12-35.3 Milepost 0.00 to Milepost 0.50
<u>Milepost</u>	Remarks
0.00	Junction with Road No. 26-12-35.2. Begin brushing, slough and slide removal, grading and shaping, and rocking in accordance with Sections 500, 1200, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 4, and Roadside Brushing Detail Sheet No.8.
NOTE:	Apply a 4" lift of 1.5" crushed aggregate from MP 0.00 to MP 0.05 conforming to Sections 1200 of the Road Specifications and as directed by the Authorized Officer.
0.05	Junction, construct Spur 5 right. End rocking.
0.20	Junction, construct Spur 6 right.
0.40	Junction, construct Spur 7 right.
0.50	End landing. End renovation.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 12 of 48 sheets

RENOVATION OF ROAD NO. 26-12-35.5

Milepost 0.00 to Milepost 0.15

<u>Milepost</u>	Remarks			
0.00	Junction with Road No. 26-12-35.1. Begin brushing, slough and slide removal, grading and shaping, and rocking in accordance with Sections 500, 1200, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 4, and Roadside Brushing Detail Sheet No.8.			
NOTE:	Apply 40 CY of spot rock conforming to Sections 1200 of the Road Specifications and as directed by the Authorized Officer.			
0.10	Junction, Road No. 26-12-35.6.			
0.15	Junction, renovate Road No. 26-12-35.10 left. End renovation.			
Milepost/	RENOVATION OF ROAD NO. 26-12-35.10 Milepost 0.00 to Milepost 0.05			
Station _	Remarks			
0.00	Junction with Road No. 26-12-35.5. Begin slough and slide removal, grading and shaping in accordance with Sections 500 and 2100 of the Road Specifications and Typical Cross Section Sheet No. 4.			
NOTE:	Utilize slough and slide material on existing subgrade. Outslope &/or inslope at 2% with no ditch to achieve drainage.			
0.05= 2+65	End renovation. Begin new construction. Deliver 150 CY of spot rock to the stockpile area, right.			
	RENOVATION OF SPUR 8 Station 0+00 to Station 4+50			
Station	Remarks			
0+00	Junction with Road No. 26-12-35.1. Begin slough and slide removal, grading and shaping, and soil stabilization in accordance with Sections 500, 1800, and 2100 of the Road Specifications and Typical Cross Section Sheet No. 4.			
NOTE:	Utilize slough and slide material on existing subgrade. Outslope &/or inslope at 2% with no ditch to achieve drainage.			
4+50	End renovation. Construct landing with approach right.			

EQUIPMENT WASHING

The Purchaser is responsible for conforming to the Exhibit F.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 13 of 48 sheets

CONSTRUCTION DETAIL SHEET ROAD NO. 26-12-35.8 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Road No. 26-12-35.8 from Sta. 0+00 to Sta. 6+25 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Sheet No. 4.

TURNOUTS

Construct 50' turnout right at Sta. 3+50.

SUBGRADE

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

DRAINAGE FEATURES

Install a 12" x 30' CMP at Sta. 0+00 in accordance with Section 400 of the Road Specifications and Culvert Installation Detail Sheet No. 5.

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Apply a 12" lift of crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

Note: Lift will be 6 inches of 6" minus and 6 inches of 3" minus.

ALIGNMENT

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

GRADE

Grade shall not exceed 13% adverse.

TRUCK TURNAROUND

Construct truck-turnaround right at Sta. 5+00. 10 CY landing rock allocated.

LANDINGS

Construct end landing at 6+25. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 14 of 48 sheets

CONSTRUCTION DETAIL SHEET ROAD NO. 26-12-35.9 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Road No. 26-12-35.9 from Sta. 0+00 to Sta. 16+90 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. 4.

TURNOUTS

Construct 50' turnout right at Sta. 11+45.

SUBGRADE

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

DRAINAGE FEATURES

Install a 12" x 30' CMP at Sta. 0+00 in accordance with Section 400 of the Road Specifications and Culvert Installation Detail Sheet No. 5.

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Apply a 12" lift of 3" minus crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

ALIGNMENT

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

Junction, construct Spur 2 left at Sta. 5+80.

GRADE

Grade shall not exceed 16% adverse.

TRUCK TURNAROUND

Construct truck-turnaround left at Sta. 15+75. 10 CY landing rock allocated.

LANDINGS

Construct end landing at 16+90. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 15 of 48 sheets

CONSTRUCTION DETAIL SHEET ROAD NO. 26-12-35.10 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Road No. 26-12-35.10 from Sta. 2+65 to Sta. 7+95 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Apply a 12" lift of crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

Note: Lift will be 6 inches of 6" minus and 6 inches of 3" minus.

ALIGNMENT

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

Junction, construct Road No. 26-12-35.11 left at Sta. 5+75.

GRADE

Grade shall not exceed 9% adverse.

TRUCK TURNAROUND

None.

LANDINGS

Construct end landing at 7+95. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 16 of 48 sheets

CONSTRUCTION DETAIL SHEET ROAD NO. 26-12-35.11 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Road No. 26-12-35.11 from Sta. 0+00 to Sta. 6+00 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Apply a 12" lift of 3" minus crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

ALIGNMENT

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

GRADE

Cut 2' to 3' from Sta. 0+50 and drift forward to Sta. 4+00. Utilize excavated material to fill low point at Sta. 2+90, and achieve specified grade.

Grade shall not exceed 16% adverse.

TRUCK TURNAROUND

Construct truck-turnaround left at Sta. 4+50. 10 CY landing rock allocated.

LANDINGS

Construct end landing at 6+00. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 17 of 48 sheets

CONSTRUCTION DETAIL SHEET ROAD NO. 26-12-35.12 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Road No. 26-12-35.12 from Sta. 0+00 to Sta. 5+45 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Install a 12" x 30 CMP at Sta. 0+00 in accordance with Section 400 of the Road Specifications and Culvert Installation Detail Sheet No. 5.

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Install a 12" lift of crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

Note: Lift will be 6 inches of 6" minus and 6 inches of 3" minus.

ALIGNMENT

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

GRADE

Grade shall not exceed 16% adverse.

TRUCK TURNAROUND

Construct truck-turnaround left at Sta. 4+00. 10 CY landing rock allocated.

LANDINGS

Construct end landing at 5+45. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 18 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 1 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 1 from Sta. 0+00 to Sta. 3+90 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Install a 12" x 30 CMP at Sta. 0+00 in accordance with Section 400 of the Road Specifications and Culvert Installation Detail Sheet No. 5.

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Install a 12" lift of crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

Note: Lift will be 6 inches of 6" minus and 6 inches of 3" minus.

ALIGNMENT

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

GRADE

Grade shall not exceed 14% favorable.

TRUCK TURNAROUND

None.

LANDINGS

Construct end landing at Sta. 3+90. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 19 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 2 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 2 from Sta. 0+00 to Sta. 4+40 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Install a 12" lift of 3" minus crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

ALIGNMENT

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

GRADE

Grade shall not exceed 16% adverse.

TRUCK TURNAROUND

Construct truck-turnaround right at Sta. 3+00. 10 CY landing rock allocated.

LANDINGS

Construct landing right at Sta. 4+40. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 20 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 3 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 3 from Sta. 0+00 to Sta. 4+30 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch 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.

GRADE

Grade shall not exceed 20% adverse.

TRUCK TURNAROUND

Construct truck-turnaround left at Sta. 3+00.

LANDINGS

Construct end landing at Sta. 4+30.

Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 21 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 4 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 4 from Sta. 0+00 to Sta. 7+40 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. 4.

TURNOUTS

Construct 50' turnout right at Sta. 5+40.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch 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.

GRADE

Grade shall not exceed 18% adverse.

TRUCK TURNAROUND

Construct truck-turnaround right at Sta. 6+40.

LANDINGS

Construct end landing at Sta. 7+40.

Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 22 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 5 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 5 from Sta. 0+00 to Sta. 4+60 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Install a 12" x 30 CMP at Sta. 0+00 in accordance with Section 400 of the Road Specifications and Culvert Installation Detail Sheet No. 5.

Outslope &/or inslope at 2% with no ditch to achieve drainage.

SURFACING

Install a 12" lift of crushed aggregate base rock in accordance with Section 1000 of the Road Specifications and Typical Cross Section Sheet No. 4.

Note: Lift will be 6 inches of 6" minus and 6 inches of 3" minus.

<u>ALIGNMENT</u>

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

GRADE

Grade shall not exceed 15% adverse.

TRUCK TURNAROUND

Construct truck-turnaround left at Sta. 3+50. 10 CY landing rock allocated.

LANDINGS

Construct end landing at Sta. 4+60. 50 CY of landing rock allocated. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 23 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 6 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 6 from Sta. 0+00 to Sta. 5+80 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch 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.

Construct landing with approach right at Sta. 1+05.

GRADE

Grade shall not exceed 12% adverse.

TRUCK TURNAROUND

Construct truck-turnaround left at Sta. 4+95.

LANDINGS

Construct end landing at Sta. 5+80. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 24 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 7 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 7 from Sta. 0+00 to Sta. 1+95 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. 4.

TURNOUTS

None.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch 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.

GRADE

Grade shall not exceed 7% adverse.

TRUCK TURNAROUND

None.

LANDINGS

Construct end landing at Sta. 1+95. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 25 of 48 sheets

CONSTRUCTION DETAIL SHEET SPUR 9 CONTROL POINT ROAD

GENERAL

Purchaser shall construct Spur 9 from Sta. 0+00 to Sta. 13+30 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. 4.

TURNOUTS

Construct 50' turnouts right at stations 3+80 and 8+50.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 2% with no ditch 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.

GRADE

Grade shall not exceed 20%.

Cut 1' to 2' from Sta. 8+00 and drift forward to Sta. 10+00. Cut 1' to 2' from the end landing and drift back to Sta. 10+00. Utilize excavated material to fill low point at Sta. 10+00.

TRUCK TURNAROUND

Construct truck-turnaround left at Sta. 11+90.

LANDINGS

Construct landing right at Sta. 12+45.

Construct end landing at Sta. 13+30.

Grade of landings shall not exceed 5%.

SOIL STABILIZATION

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 26 of 48 sheets

ROAD CONSTRUCTION SPECIFICATIONS

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

<u>Section</u>	
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)
1700	EROSION CONTROL
1800	SOIL STABILIZATION
2100	ROADSIDE BRUSHING

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 27 of 48 sheets

GENERAL - 100

101 - Pre-work Conference(s):

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

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

102 - Definitions:

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

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

ACI - American Concrete Institute

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.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 28 of 48 sheets

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 29 of 48 sheets

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

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

Road Centerline - Longitudinal center of roadbed.

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

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

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 30 of 48 sheets

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

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

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

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

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

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

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

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

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

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

Quantity of rock finer than No. 200 sieve.

102a - Tests Used in These Specifications:

AASHTO T 11

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AASHTO T 27	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
AASHTO T 89	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
AASHTO T 90	Plastic limits and plasticity index of soil.
	a. Plastic limit - lowest water content at which the soil remains plastic.
	b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
AASHTO T 96	Resistance to abrasion of small size coarse aggregate by use of the Los

AASHTO T 99 Relationship between soil moisture and maximum density of soil.

Angeles machine.

Method A - 4" mold, soil passing a No. 4 Sieve.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 31 of 48 sheets

25 blows/layer & 3 layers.

Method D - 6" mold, soil passing a 19.00 mm (3/4 inches) sieve. 56 blows/layer & 5 layers.

AASHTO T 176	Shows relative portions of fine dust or clay-like materials in soil or graded aggregate.
AASHTO T 180	(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop.
AASHTO T 191	Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
AASHTO T 205	Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.
AASHTO T 210	Durability of aggregates based on resistance to produce fines.
AASHTO T 224	Correction for coarse particles in the soil.
AASHTO T 238	Determination of density of soil and soil-aggregates in place by nuclear methods.
AASHTO T 248	Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
DES. E-12	Determination of relative density of cohesionless soils.

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

- Compaction equipment shall meet the following requirements:
- Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3-inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller at a speed of at least 4 miles per hour.
- Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 32 of 48 sheets

per hour, as directed by the Authorized Officer. The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.

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

CLEARING AND GRUBBING - 200

- This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, 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.
- 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.
- 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.
- 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.
- Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.
- Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet. When authorized, stumps and other nonperishable objects may be left provided they do not extend more than 6 inches above the existing ground line.
- On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- On areas to be occupied by embankments having heights greater than 4 feet, no stump or
 portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after
 grubbing is completed.
- 204e Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 33 of 48 sheets

- Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210.
- Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 213 No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 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.
- Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.
- Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent of rock not larger than 12 inches, in the greatest dimension, shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- Where embankments are constructed predominantly of blasted rock material, depth of layers shall not exceed 4 feet. Rock fragments having dimensions greater than 4 feet will be

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 34 of 48 sheets

permitted provided that they have no dimensions greater than 6 feet and that clearance between adjacent fragments is adequate for the placing and compacting of material in horizontal layers as specified, and that no part of the larger fragments comes within 4 feet of subgrade.

Layers of embankment and final subgrade material as specified under Subsection(s) 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsection 103f and in accordance with the following table:

Road No.	From Sta./M.P.	To Sta./M.P.
26-12-35.8	0+00	6+25
26-12-35.9	0+00	16+90
26-12-35.10	2+65	7+95
26-12-35.11	0+00	6+00
26-12-35.12	0+00	5+45
Spur 1	0+00	3+90
Spur 2	0+00	4+40
Spur 3	0+00	4+30
Spur 4	0+00	7+40
Spur 5	0+00	4+60
Spur 6	0+00	5+80
Spur 7	0+00	1+95
Spur 9	0+00	13+30

- Compacted materials within 1 foot of the established subgrade elevation shall have a density in place of not less than 95 percent of maximum density, and below the 1-foot limit, these materials shall have a density in place of not less than 90 percent of maximum density.
 Maximum density shall be determined by AASHTO T 99, Method A or Method D.
- Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures except as specified in Subsection 306.
- The face of all fill slopes shall be compacted to 85% of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade and compacting both the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 35 of 48 sheets

- In cut areas where solid rock is encountered at or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.
- When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the
 material will encroach on a stream course or other body of water. Such materials shall be
 disposed of in accordance with Subsection 321c.
- NOTE: Any material being hauled over gravel or bituminous surfaced roads will be done in vehicles which meet legal highway weight requirements while hauling.
- End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Placement in layers is required. Materials placed shall be sloped, shaped, and otherwise brought to a neat and sightly condition acceptable to the Authorized Officer.
- Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of the grading operations.
- The Purchaser shall adopt methods and procedures in using explosives which will prevent damage to adjacent landscape features and which will minimize scattering rocks and other debris outside the road prism.

PIPE CULVERTS - 400

This work shall consist of furnishing and installing pipe culverts, pipe arch culverts, half rounds flume(s), perforated pipe culverts, downspout(s), elbow(s), and other erosion control device(s) in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 36 of 48 sheets

- Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade and shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.
- 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.
- 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.
- 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.
- Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.
- "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts or helically corrugated pipe and pipe-arch culverts having annular reformed ends.
 Annular reformed ends shall consist of 2 annular corrugations.
- 406b Coupling bands produced from flat galvanized steel sheets with impressed dimples will be permitted only for connecting annular corrugated steel pipe to helically corrugated steel pipe. Such coupling bands shall conform to the width requirements shown on the plans
- Channel-type or flanged-end coupling bands may be used on helical pipe with reformed rolled ends and flanged specifically to receive these bands. Such coupling bands shall conform to the requirements shown on the plans.
- Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- Full round culvert downspouts conforming to the material and construction requirements as shown on the plans shall be anchored with two six-foot steel fence posts (one on each side of the pipe) wired together with No. 12 galvanized wire in a manner approved by the Authorized Officer. These anchors shall be placed every ten feet along the pipe beginning at the outlet of the culvert pipe.
- Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 37 of 48 sheets

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

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 38 of 48 sheets

- Where pervious materials are used for backfill and bedding, collars consisting of selected impervious material shall be placed at the inlet and at various intervals along the pipe barrel as shown on the plans and as directed by the Authorized Officer.
- Culvert 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

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

Road No.	From Sta./M.P.	To Sta./M.P.
26-12-35.0	0.00	0.10
26-12-35.1	0.00	1.40
26-12-35.2	0.00	0.98
26-12-35.3	0.00	0.50
26-12-35.5	0.00	0.15
26-12-35.10	0.00	0.05
Spur 8	0+00	4+50

- Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers
 of the roadbed. Material so removed will not be permitted to remain on road shoulders or in
 ditches.
- Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.

 Drainage ditches that are vegetated, capable of adequate water flow, and are in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans shall not be bladed.
- 503 Debris from slides shall be disposed of as directed by the Authorized Officer.
- Scarified material and existing road surface shall be uniformly moistened or dried to the
 optimum moisture content suitable for maximum density and compacted to full width with
 equipment conforming to requirements of Subsection 103f and in accordance with the
 following table:

Road No.	From Sta./M.P.	To Sta./M.P.
Spur 8	0+00	4+50

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 39 of 48 sheets

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

WATERING - 600

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

AGGREGATE BASE COURSE AND LANDING ROCK - 1000 CRUSHED ROCK MATERIAL

- This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock
 material on roadbeds and landings approved for placing crushed rock material, in accordance
 with these specifications and conforming to the dimensions and typical cross sections shown
 on the plans. Material not conforming to these specifications will be rejected and shall be
 removed from the road.
- 1002a Crushed rock materials may be obtained from commercial sources selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- Crushed rock material produced from gravel shall have 3 manufactured fractured face(s) on 75 percent, by weight, of the material retained on the 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	А	D
6-inch	-	100
3-inch	100	45-65
2-inch	90-95	-
12-inch	-	-
1-inch	45-75	-
3/4-inch	-	-
2-inch	-	-
3/8-inch	-	-
No. 4	15-45	0-10
No. 8	-	-
No. 10	-	-
No. 30	-	-
No. 40	5-25	-
No. 200	2-15	-

- 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.
- 1006a Crushed rock material shall show a loss of not more than 20 percent by weight when immersed in DMSO, dimethyl sulfoxide, for five days, in accordance with Federal Highway Administrations Region 10 Accelerated Weathering Test Procedure.
- 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.
- 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

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

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

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

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 42 of 48 sheets

accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road.

- 1202a Crushed rock materials used in this work may be obtained from commercial source(s) selected by the Purchaser at his option and expense, providing rock materials furnished comply with the specifications in this section.
- When crushed rock material is produced from gravel, not less than 75 percent by weight of the particles retained on the 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 gradiation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

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

GRADIATION

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

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

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 43 of 48 sheets

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

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

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 44 of 48 sheets

EROSION CONTROL - 1700

- This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 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.
- 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.
- Completed and partially completed segments of road(s) to be carried over the winter and early spring periods shall be stabilized by mulching exposed areas at the rate of 2,000 pounds per acre.
- Road segments not completed during dry weather periods shall be winterized, by providing a
 well-drained roadway by waterbarring, maintaining drainage, and performing additional
 measures necessary to minimize erosion and other damage to the roadway, as directed by the
 Authorized Officer. Portions of roads not having surface rock in place will be blocked or
 barricaded to prevent vehicular traffic.

SOIL STABILIZATION - 1800

- This work shall consist of seeding, fertilizing and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is not required for road acceptance under Section 18 of this contract.
- 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.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 45 of 48 sheets

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. 7.
- Additional soil stabilization work consisting of seeding, fertilizing and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Section 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 1808 Fertilizer shall be a standard commercial grade of fertilizer conforming to all State and Federal regulations and to the standards of the Association of Official Agricultural Chemists. Fertilizer furnished shall provide the minimum percentage of available nutrients as specified below:

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

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

Fertilizer shall be furnished in new sealed and properly labeled containers with name, weight, and guaranteed analysis of contents clearly marked. Material failing to meet these requirements, or that which has become wet or otherwise damaged in transit or storage, will be subject to rejection by the Authorized 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.
- 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.
- Mulch material shall be delivered to the work area in a dry state. Material found to be wet will
 not be accepted. Material to be used in the mulching operation may be stockpiled along the
 road designated for treatment provided that it be maintained in a dry state and has the
 approval of the Authorized Officer.
- Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding and plastic twine will not be permitted.
- The Purchaser shall furnish and apply to approximately 2.1 acres designated for treatment as shown on the plans and as specified under Subsection 1806, a mixture of water, fertilizer and mulch material, or a mixture of grass seed and fertilizer material at the following rate of application:

a. Single Stage (Hydraulic):

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

b. Dry Application:

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

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

- The Purchaser may reduce the application rate on partially covered slopes and no application on areas already well stocked with grass or on rock surfaces.
- 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.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 47 of 48 sheets

The slurry tank shall have a minimum operation capacity of 1,300 gallons and shall be mounted on a traveling unit which will place the slurry tank and spray nozzles within sufficient proximity to the areas to be treated so as to provide uniform distribution without waste. Lug- or track-type units are not authorized. The hydroseeder must be capable of spraying the slurry a minimum distance of 100 feet. The nozzle, mounted on a stand, must be capable of traversing 360 degrees on a horizontal plane and a minimum of 70 degrees on a vertical plane.

- 1817a Hydromulch slurry mixing shall be with water and seed first, followed by fertilizer, and finally fiber. The time between mixing and application shall not exceed 1 hour.
- 1819 The maximum distance to be seeded, fertilized and mulched from the road centerline shall be 100 feet for the cut slopes and 150 feet for the fill slopes.
- 1820 The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- No materials shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 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

- This work shall consist of cutting and the removal of vegetation from the road prism variable distance and inside curves in accordance with these specifications. This work shall conform to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet, at designated locations as shown in the plans.
- 2102 Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chainsaws.
- Vegetation cut manually or mechanically less than 6 inches in diameter at D.B.H. shall be cut
 to a maximum height of 6 inches above the ground surface or above obstructions such as
 rocks or stumps on cut and fill sloped and all limbs will be severed from the trunk.
- Vegetation shall be cut and removed from the 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.
- 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.
- 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.

ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT C Sheet 48 of 48 sheets

- 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.
- 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. 4.
- 2116 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2117 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of All Roads and Projects T.S. Contract Name: Blue 35 CT ORC00-TS-2013.0003	05/15/12
Prepared by: JRM Ph: Print Date: Construction: 85.55 sta (Surfaced 52.80 sta Natural 32.75 sta) Improve: 0.00 sta Renov: 172.41 sta Decom: 0.00 sta Temp: 0.00 sta	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$30,298.54
400 Drainage:	\$3,181.60
500 Renovation:	\$7,736.08
Surfacing:	144,313.62
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 2.1 acres	\$1,122.76
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 4.0 acres	\$2,733.06
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$5,610.00 Surf. \$0.00	\$5,610.00
Quarry Development:	\$0.00
<pre>Total = \$ Notes:</pre>	194,995.66

Notes:

Quantities shown are estimates only and not pay items. Surfacing Quantities are COMPACTED in place cubic yards. **Landing, spot, and bedding rock are truck yards.

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.0 R Road Name: Road Renovation: 0.10 mi 16 ft Subgrade 2 ft ditch T.S. Update	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$222.34
Surfacing: Quarry Name: Hoover, 1.5-0", spot 20 cy	\$657.80
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$26.07 Surf. \$0.00	\$26.07
Quarry Development:	\$0.00
Total:	\$906.21
Notes: Ouantities shown are estimates only and not nay items	

Road Number: 26-12-35.0 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$512.82/mi x 0.10 mi = \$51.28 Pull Ditches: \$139.08/mi x 0.10 mi = \$13.91 Compaction: \$1307.22/mi x 0.10 mi = \$130.72 Clean Culverts: \$264.30/mi x 0.10 mi = \$26.43

Subtotal: \$222.34

Crushed aggregate, spot rock Quarry Name: Hoover, 1.5-0", spot

Comment: Spot rock

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

Rock Volume = 20cy

Royalty: $$12.50/\text{cy} \times 20\text{cy} = 250.00 Processing: $$1.38/\text{cy} \times 20\text{cy} = 27.60 Compaction: $$0.77/\text{cy} \times 20\text{cy} = 15.40

Basic Rock Haul cost: $$0.93/\text{cy} \times 20\text{cy} = 18.60

Rock Haul -15% grades: \$1.39/cy-mi x 20cy x 3.00 mi= \$83.40 Rock Haul St& Co Roads: \$0.62/cy-mi x 20cy x 20.00 mi= \$248.00

Basic Water Haul cost: $$0.61/\text{cy} \times 20\text{cy} = 12.20

Water Haul -15% grades: \$0.13/cy-mi x 20cy x 1.00 mi= \$2.60

Subtotal: \$657.80

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Section 2200 Surface Treatment:

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 0.46% of total Costs = \$26.07 Surfacing - 0.48% by rock volume = \$0.00

Subtotal: \$26.07

Total: \$906.21

Subtotal: \$0.00

Subtotal: \$0.00

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.1 R Road Name:	- 05/15/10
Road Renovation: 1.40 mi 16 ft Subgrade 2 ft ditch T.S. Update	e U5/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$3,112.79
Surfacing:	\$8,222.50
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$335.77 Surf. \$0.00	\$335.78
Quarry Development:	\$0.00
Total:	\$11,671.06
Notes: Quantities shown are estimates only and not pay items.	

Road Number: 26-12-35.1 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $$512.82/mi \times 1.40 \text{ mi} = 717.95 Pull Ditches: $$139.08/mi \times 1.40 \text{ mi} = 194.71 Compaction: $$1307.22/mi \times 1.40 \text{ mi} = $1,830.11$ Clean Culverts: $$264.30/mi \times 1.40 \text{ mi} = 370.02

Subtotal: \$3,112.79

Crushed aggregate, spot rock Quarry Name: Hoover, 1.5-0", spot

Comment: Spot rock

<u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 250cv

Rock Volume = 250cy

Royalty: $$12.50/cy \times 250cy = $3,125.00$ Processing: $$1.38/cy \times 250cy = 345.00 Compaction: $$0.77/cy \times 250cy = 192.50

Basic Rock Haul cost: $$0.93/\text{cy} \times 250\text{cy} = 232.50

Rock Haul -15% grades: \$1.39/cy-mi x 250cy x 3.00 mi= \$1,042.50 Rock Haul St& Co Roads: \$0.62/cy-mi x 250cy x 20.00 mi= \$3,100.00

Basic Water Haul cost: \$0.61/cy x 250cy = \$152.50

Water Haul -15% grades: \$0.13/cy-mi x 250cy x 1.00 mi= \$32.50

Subtotal: \$8,222.50

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Section 2200 Surface Treatment:

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 5.99% of total Costs = \$335.77 Surfacing - 5.97% by rock volume = \$0.00

Subtotal: \$335.78

Total: \$11,671.06

Subtotal:

Subtotal:

\$0.00

\$0.00

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.10 C Road Name:	
Road Construction: 0.10 mi 16 ft Subgrade 0 ft ditch T.S. Updat	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$1,641.92
<pre>400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf</pre>	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$11,197.78
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$381.92 Surf. \$0.00	\$381.92
Quarry Development:	\$0.00
	\$13,275.08
Notes: Quantities shown are estimates only and not pay items.	

Road Number: 26-12-35.10 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 5.3 sta = \$98.42

Blading: \$11.32/station x 5.30 stations = \$60.00

Subgrade construction

Tractor: D7 with rippers 10 hr x \$148.35/hr = \$1,483.50

Subtotal: \$1,641.92

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

3-0" Crushed aggregate Quarry Name: Hoover, 3-0"

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

0.10mi 12ft 14ft 6in 7%

Rock Volume = 136cy

Royalty: $$16.65/cy \times 136cy = $2,264.40$

Processing: $$1.38/\text{cy} \times 136\text{cy} = 187.68

Compaction: $$0.77/cy \times 136cy = 104.72

Basic Rock Haul cost: $$0.93/\text{cy} \times 136\text{cy} = 126.48

Rock Haul -15% grades: \$1.39/cy-mi x 136cy x 3.00 mi= \$567.12

Rock Haul St& Co Roads: \$0.62/cy-mi x 136cy x 20.00 mi= \$1,686.40

Basic Water Haul cost: $\$0.61/\text{cy} \times 136\text{cy} = \82.96

Water Haul -15% grades: $$0.13/\text{cy-mi} \times 136\text{cy} \times 1.00 \text{ mi} = 17.68

Jaw run Quarry Name: Hoover, 6-0" Base

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

0.10mi 14ft 16ft 6in 7%

Rock Volume = 156cy

Royalty: $$10.00/cy \times 156cy = $1,560.00$

Processing: $$1.38/cy \times 156cy = 215.28

Compaction: $$0.77/cy \times 156cy = 120.12

Basic Rock Haul cost: $$0.93/cy \times 156cy = 145.08

Rock Haul -15% grades: \$1.39/cy-mi x 156cy x 3.00 mi= \$650.52

Rock Haul St& Co Roads: \$0.62/cy-mi x 156cy x 20.00 mi= \$1,934.40

Basic Water Haul cost: $\$0.61/\text{cy} \times 156\text{cy} = \95.16

Water Haul -15% grades: \$0.13/cy-mi x 156cy x 1.00 mi= \$20.28

Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing

Comment: Rock for end landing

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

50cy

Rock Volume = 50cy

Royalty: $$8.00/\text{cy} \times 50\text{cy} = 400.00

Processing: $$1.38/cy \times 50cy = 69.00

Compaction: $$0.77/cy \times 50cy = 38.50

Basic Rock Haul cost: $$0.93/cv \times 50cv = 46.50

Rock Haul -15% grades: \$1.39/cy-mi x 50cy x 3.00 mi= \$208.50

Rock Haul St& Co Roads: \$0.62/cy-mi x 50cy x 20.00 mi= \$620.00

Basic Water Haul cost: $$0.61/\text{cy} \times 50\text{cy} = 30.50

Water Haul -15% grades: \$0.13/cy-mi x 50cy x 1.00 mi= \$6.50

Subtotal: \$11,197.78

Road Number: 26-12-35.10 C Continued Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46 Includes Small Quantity Factor of 1.47 Subtotal: \$53.46 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2200 Surface Treatment: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous:

Mobilization:

Construction - 6.81% of total Costs = \$381.92 Surfacing - 8.17% by rock volume = \$0.00

Subtotal: \$381.92

Subtotal: \$0.00

Quarry Development:

Based on 8.17% of total rock volume

Subtotal: \$0.00

Total: \$13,275.08

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.10 R Road Name:	
Road Renovation: 0.05 mi 16 ft Subgrade 0 ft ditch T.S. Update	: 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 0.05 mi	\$91.00
Surfacing:	\$5,025.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$151.55 Surf. \$0.00	\$151.55
Quarry Development:	\$0.00
Total:	\$5 , 267.55
Notes: Ouantities shown are estimates only and not pay items	

Road Number: 26-12-35.10 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$512.82/mi x 0.05 mi = \$25.64 Compaction: \$1307.22/mi x 0.05 mi = \$65.36

Subtotal: \$91.00

Crushed aggregate, stockpile Quarry Name: Hoover, 1.5-0", pile

Comment: Stockpile rock

<u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 150cy

Rock Volume = 150cy

Royalty: $$12.50/\text{cy} \times 150\text{cy} = $1,875.00$ Processing: $$1.38/\text{cy} \times 150\text{cy} = 207.00 Stockpiling: $$1.38/\text{cy} \times 150\text{cy} = 207.00

Basic Rock Haul cost: $$0.93/\text{cy} \times 150\text{cy} = 139.50

Rock Haul -15% grades: $$1.39/\text{cy-mi} \times 150\text{cy} \times 3.00 \text{ mi} = 625.50 Rock Haul St& Co Roads: $$0.62/\text{cy-mi} \times 150\text{cy} \times 20.00 \text{ mi} = $1,860.00$

Basic Water Haul cost: $$0.61/\text{cy} \times 150\text{cy} = 91.50

Water Haul -15% grades: \$0.13/cy-mi x 150cy x 1.00 mi= \$19.50

Subtotal: \$5,025.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 2.70% of total Costs = \$151.55 Surfacing - 3.58% by rock volume = \$0.00

Subtotal: \$151.55

Total: \$5,267.55

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.11 C Road Name:	05/45/40
Road Construction: 0.11 mi 16 ft Subgrade 0 ft ditch T.S. Updat	e 05/15/12
200 Clearing and Grubbing: 0.0 acres Clearing:0.0 sta Grubbing:0.0 acres Slash Treatment:0.0 acres	\$0.00
300 Excavation:	\$1,959.54
<pre>400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf</pre>	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$13,645.88
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$463.85 Surf. \$0.00	\$463.85
Quarry Development:	\$0.00
Total: Notes:	\$16,122.73

Notes:

Road Number: 26-12-35.11 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr $$18.57/sta. \times 6.0 sta = 111.42

Blading: \$11.32/station x 6.00 stations = \$67.92

Subgrade construction

Tractor: D7 with rippers 12 hr x \$148.35/hr = \$1,780.20

Subtotal: \$1,959.54

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

3-0" Crushed aggregate Quarry Name: Hoover, 3-0"

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

0.11mi 12ft 16ft 12in 7%

Rock Volume = 322cv

Royalty: $$16.65/cy \times 322cy = $5,361.30$

Processing: $$1.38/cy \times 322cy = 444.36

Compaction: $$0.77/cy \times 322cy = 247.94

Basic Rock Haul cost: $$0.93/cy \times 322cy = 299.46

Rock Haul -15% grades: \$1.39/cy-mi x 322cy x 3.00 mi= \$1,342.74

Rock Haul St& Co Roads: \$0.62/cy-mi x 322cy x 20.00 mi= \$3,992.80

Basic Water Haul cost: $$0.61/\text{cy} \times 322\text{cy} = 196.42

Water Haul -15% grades: \$0.13/cy-mi x 322cy x 1.00 mi= \$41.86

Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing

Comment: Rock for end landing and truck turn-around

<u>Length TopW BotW Depth CWid</u> #Tos Width F.W.L Taper Other 60cv

Rock Volume = 60cy

Royalty: $$8.00/\text{cy} \times 60\text{cy} = 480.00

Processing: $$1.38/cy \times 60cy = 82.80

Compaction: $$0.77/cy \times 60cy = 46.20

Basic Rock Haul cost: $$0.93/\text{cy} \times 60\text{cy} = 55.80

Rock Haul -15% grades: \$1.39/cy-mi x 60cy x 3.00 mi= \$250.20

Rock Haul St& Co Roads: \$0.62/cy-mi x 60cy x 20.00 mi= \$744.00

Basic Water Haul cost: $$0.61/\text{cy} \times 60\text{cy} = 36.60

Water Haul -15% grades: \$0.13/cy-mi x 60cy x 3.00 mi= \$23.40

Subtotal: \$13,645.88

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46

Includes Small Quantity Factor of 1.47

Subtotal: \$53.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Road Number: 26-12-35.11 C Continued

Section 2100 Roadside Brushing:

Mobilization:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Construction - 8.27% of total Costs = \$463.85 Surfacing - 9.12% by rock volume = \$0.00

Subtotal: \$463.85

Quarry Development:
Based on 9.12% of total rock volume

Subtotal: \$0.00

Total: \$16,122.73

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.12 C Road Name: Road Construction: 0.10 mi 16 ft Subgrade 0 ft ditch T.S. Updat	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	
300 Excavation:	\$1,943.10
<pre>400 Drainage:</pre>	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$11,481.68
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$399.25 Surf. \$0.00	\$399.25
Quarry Development:	\$0.00
Total: Notes:	\$13,877.50
Quantities shown are estimates only and not pay items.	

Road Number: 26-12-35.12 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr $$18.57/sta. \times 5.5 sta = 101.21

Blading: \$11.32/station x 5.45 stations = \$61.69

Subgrade construction

Tractor: D7 with rippers 12 hr x \$148.35/hr = \$1,780.20

Subtotal: \$1,943.10

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

3-0" Crushed aggregate Quarry Name: Hoover, 3-0"

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

0.10mi 12ft 14ft 6in 7%

Rock Volume = 136cy

Royalty: $$16.65/cy \times 136cy = $2,264.40$

Processing: $$1.38/cy \times 136cy = 187.68

Compaction: $$0.77/cy \times 136cy = 104.72

Basic Rock Haul cost: $$0.93/cy \times 136cy = 126.48

Rock Haul -15% grades: \$1.39/cy-mi x 136cy x 3.00 mi= \$567.12

Rock Haul St& Co Roads: \$0.62/cy-mi x 136cy x 20.00 mi= \$1,686.40

Basic Water Haul cost: $\$0.61/\text{cy} \times 136\text{cy} = \82.96

Water Haul -15% grades: $$0.13/\text{cy-mi} \times 136\text{cy} \times 1.00 \text{ mi} = 17.68

Jaw run Quarry Name: Hoover, 6-0" Base

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

0.10mi 14ft 16ft 6in 7%

Rock Volume = 156cy

Royalty: $$10.00/cy \times 156cy = $1,560.00$

Processing: $$1.38/cy \times 156cy = 215.28

Compaction: $$0.77/cy \times 156cy = 120.12

Basic Rock Haul cost: \$0.93/cy x 156cy = \$145.08

Rock Haul -15% grades: \$1.39/cy-mi x 156cy x 3.00 mi= \$650.52

Rock Haul St& Co Roads: \$0.62/cy-mi x 156cy x 20.00 mi= \$1,934.40

Basic Water Haul cost: $\$0.61/\text{cy} \times 156\text{cy} = \95.16

Water Haul -15% grades: \$0.13/cy-mi x 156cy x 1.00 mi= \$20.28

Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing

Comment: Rock for end landing and truck-turnaround

 $\underline{\text{Length}}\ \underline{\text{TopW}}\ \underline{\text{BotW}}\ \underline{\text{Depth}}\ \underline{\text{CWid}} \qquad \underline{\text{\#TOs}}\ \underline{\text{Width}}\ \underline{\text{F.W.L}}\ \underline{\text{Taper}} \qquad \underline{\text{Other}}$

60cy

Rock Volume = 60cy

Royalty: $$8.00/cy \times 60cy = 480.00

Processing: $$1.38/cy \times 60cy = 82.80

Compaction: $$0.77/cy \times 60cy = 46.20

Basic Rock Haul cost: $$0.93/cv \times 60cv = 55.80

Rock Haul -15% grades: \$1.39/cy-mi x 60cy x 3.00 mi= \$250.20

Rock Haul St& Co Roads: \$0.62/cy-mi x 60cy x 20.00 mi= \$744.00

Basic Water Haul cost: $$0.61/\text{cy} \times 60\text{cy} = 36.60

Water Haul -15% grades: \$0.13/cy-mi x 60cy x 1.00 mi= \$7.80

Subtotal: \$11,481.68

Road Number: 26-12-35.12 C Continued Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46 Includes Small Quantity Factor of 1.47 Subtotal: \$53.46 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2200 Surface Treatment: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Subtotal: \$0.00 Mobilization: Construction - 7.12% of total Costs = \$399.25 Surfacing - 8.40% by rock volume = \$0.00 Subtotal: \$399.25

Subtotal: \$0.00

Total: \$13,877.50

Quarry Development:

Based on 8.40% of total rock volume

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.2 R Road Name:	
Road Renovation: 0.98 mi 16 ft Subgrade 2 ft ditch T.S. Updat	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$541.60
500 Renovation:	\$2,178.95
Surfacing:	\$10,774.18
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 2.4 acres	\$1,981.01
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$460.01 Surf. \$0.00	\$460.01
Quarry Development:	\$0.00
Total: Notes:	\$15,989.21
Quantities shown are estimates only and not pay items.	

Road Number: 26-12-35.2 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Poly Pipe 18 inch 30 lf x \$17.72/1f = \$531.60

Culvert part

Marker 1 EA x \$10.00/EA = \$10.00

Subtotal: \$541.60

Section 500 Renovation:

Blading: $$512.82/mi \times 0.98 mi = 502.56 Pull Ditches: \$139.08/mi x 0.98 mi = \$136.30 Compaction: $$1307.22/mi \times 0.98 mi = $1,281.08$

Clean Culverts: $$264.30/mi \times 0.98 mi = 259.01

Subtotal: \$2,178.95

Crushed aggregate, spot rock Quarry Name: Hoover, 1.5-0", spot

Comment: Pipe fill and resurfacing

Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 10cy

Rock Volume = 10cy

Royalty: $$12.50/cy \times 10cy = 125.00 Processing: $$1.38/cy \times 10cy = 13.80 Compaction: $$0.77/cy \times 10cy = 7.70

Basic Rock Haul cost: $$0.93/\text{cy} \times 10\text{cy} = 9.30

Rock Haul -15% grades: \$1.39/cy-mi x 10cy x 3.00 mi= \$41.70 Rock Haul St& Co Roads: \$0.62/cy-mi x 10cy x 20.00 mi= \$124.00

Basic Water Haul cost: $$0.61/cy \times 10cy = 6.10

Water Haul -15% grades: \$0.13/cy-mi x 10cy x 1.00 mi= \$1.30

Crushed aggregate surface rock Quarry Name: Hoover 1.5-0"surface Length TopW BotW Depth CWid #TOs Width F.W.L Taper

0.32mi 12ft 13.32ft

4in

Rock Volume = 282cy

Royalty: $$16.65/cy \times 282cy = $4,695.30$ Processing: $$1.38/cy \times 282cy = 389.16

Compaction: $$0.77/cy \times 282cy = 217.14

Basic Rock Haul cost: \$0.93/cy x 282cy = \$262.26

Rock Haul -15% grades: \$1.39/cy-mi x 282cy x 3.00 mi= \$1,175.94 Rock Haul St& Co Roads: \$0.62/cy-mi x 282cy x 20.00 mi= \$3,496.80

Basic Water Haul cost: \$0.61/cy x 282cy = \$172.02

Water Haul -15% grades: \$0.13/cy-mi x 282cy x 1.00 mi= \$36.66

Subtotal: \$10,774.18

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Comment: pipe replacement

Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46

Includes Small Quantity Factor of 1.47

Road Number: 26-12-35.2 R Continued

Subtotal: \$53.46 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Brushing width Left: 10ft. Right: 10ft. RoadSide Brushing Medium: \$550.28/acre x 1.20 acres = \$660.34 RoadSide Brushing Heavy: $$1100.56/acre \times 1.20 acres = $1,320.67$ Subtotal: \$1,981.01 Section 2200 Surface Treatment: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Subtotal: \$0.00 Mobilization: Construction - 8.20% of total Costs = \$460.01 Surfacing - 6.97% by rock volume = \$0.00Subtotal: \$460.01

Quarry Development:

Based on 6.97% of total rock volume

Subtotal: \$0.00

Total: \$15,989.21

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.3 R Road Name:	
Road Renovation: 0.50 mi 16 ft Subgrade 2 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 0.50 mi	\$1,111.71
Surfacing: Quarry Name: Hoover 1.5-0"surface 44 cy	\$1,629.76
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.2 acres	\$660.34
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$100.77 Surf. \$0.00	\$100.77
Quarry Development:	\$0.00
Total:	\$3,502.57
Notes: Quantities shown are estimates only and not pay items.	

Road Number: 26-12-35.3 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $$512.82/mi \times 0.50 mi = 256.41 Pull Ditches: \$139.08/mi x 0.50 mi = \$69.54 Compaction: $$1307.22/mi \times 0.50 mi = 653.61 Clean Culverts: \$264.30/mi x 0.50 mi = \$132.15

Subtotal: \$1,111.71

Crushed aggregate surface rock Quarry Name: Hoover 1.5-0"surface Length TopW BotW Depth CWid #TOs Width F.W.L Taper

 $\overline{0.05mi}$ $\overline{12ft}$ $\overline{13.32ft}$

4in

Rock Volume = 44cy

Royalty: $$16.65/cy \times 44cy = 732.60 Processing: $$1.38/cy \times 44cy = 60.72 Compaction: $$0.77/cy \times 44cy = 33.88

Basic Rock Haul cost: $$0.93/\text{cy} \times 44\text{cy} = 40.92

Rock Haul -15% grades: \$1.39/cy-mi x 44cy x 3.00 mi= \$183.48 Rock Haul St& Co Roads: \$0.62/cy-mi x 44cy x 20.00 mi= \$545.60

Basic Water Haul cost: $$0.61/\text{cy} \times 44\text{cy} = 26.84

Water Haul -15% grades: \$0.13/cy-mi x 44cy x 1.00 mi= \$5.72

Subtotal: \$1,629.76

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

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

RoadSide Brushing Medium: \$550.28/acre x 1.20 acres = \$660.34

Subtotal: \$660.34

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 1.80% of total Costs = \$100.77

Surfacing - 1.05% by rock volume = \$0.00

Total: \$3,502.57

Subtotal: \$100.77

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.5 R Road Name:	1 - 1 - 1
Road Renovation: 0.15 mi 16 ft Subgrade 2 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.0 acres Clearing:0.0 sta Grubbing:0.0 acres Slash Treatment:0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$333.51
Surfacing:	\$1,315.60
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.4 acres	\$91.71
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$51.57 Surf. \$0.00	\$51.57
Quarry Development:	\$0.00
Total: Notes:	\$1,792.39
Quantities shown are estimates only and not pay items.	

Road Number: 26-12-35.5 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $$512.82/\text{mi} \times 0.15 \text{ mi} = 76.92 Pull Ditches: $$139.08/\text{mi} \times 0.15 \text{ mi} = 20.86

Compaction: $$1307.22/mi \times 0.15 mi = 196.08 Clean Culverts: $$264.30/mi \times 0.15 mi = 39.65

Subtotal: \$333.51

Crushed aggregate, spot rock Quarry Name: Hoover, 1.5-0", spot

Comment: Spot rock

<u>Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other</u>
40cv

Rock Volume = 40cy

Royalty: $$12.50/\text{cy} \times 40\text{cy} = 500.00 Processing: $$1.38/\text{cy} \times 40\text{cy} = 55.20 Compaction: $$0.77/\text{cy} \times 40\text{cy} = 30.80

Basic Rock Haul cost: $$0.93/\text{cy} \times 40\text{cy} = 37.20

Rock Haul -15% grades: $$1.39/\text{cy-mi} \times 40\text{cy} \times 3.00 \text{ mi} = 166.80 Rock Haul St& Co Roads: $$0.62/\text{cy-mi} \times 40\text{cy} \times 20.00 \text{ mi} = 496.00

Basic Water Haul cost: $$0.61/\text{cy} \times 40\text{cy} = 24.40

Water Haul -15% grades: $$0.13/\text{cy-mi} \times 40\text{cy} \times 1.00 \text{ mi} = 5.20

Subtotal: \$1,315.60

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

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

RoadSide Brushing Light: \$229.28/acre x 0.40 acres = \$91.71

Subtotal: \$91.71

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 0.92% of total Costs = \$51.57 Surfacing - 0.96% by rock volume = \$0.00

Subtotal: \$51.57

Total: \$1,792.39

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.8 C Road Name:	
Road Construction: 0.12 mi 16 ft Subgrade 0 ft ditch T.S. Updat	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$2,412.06
400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf	\$660.00
500 Renovation:	\$0.00
Surfacing:	\$13,454.24
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$491.13 Surf. \$0.00	\$491.13
Quarry Development:	\$0.00
Total: Notes:	\$17,070.89
Quantities shown are estimates only and not pay items.	

Road Number: 26-12-35.8 C Road Name: Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: Subgrade Compaction: 4 Sta/hr $$18.57/sta. \times 6.3 sta = 116.06 Blading: \$11.32/station x 6.25 stations = \$70.75Subgrade construction Tractor: D7 with rippers 15 hr x \$148.35/hr = \$2,225.25Subtotal: \$2,412.06 Section 400 Drainage: Sta. 0+00 culvert 12" aluminized, 14 gage CMP 30 LF x \$22.00/LF = \$660.00Subtotal: \$660.00 Section 500 Renovation: Subtotal: \$0.00 3-0" Crushed aggregate Quarry Name: Hoover, 3-0" <u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 0.12mi 12ft 14ft 6in Rock Volume = 163cy Royalty: $$16.65/cy \times 163cy = $2,713.95$ Processing: $$1.38/cy \times 163cy = 224.94 Compaction: $$0.77/cy \times 163cy = 125.51 Basic Rock Haul cost: \$0.93/cy x 163cy = \$151.59 Rock Haul -15% grades: \$1.39/cy-mi x 163cy x 3.00 mi= \$679.71 Rock Haul St& Co Roads: \$0.62/cy-mi x 163cy x 20.00 mi= \$2,021.20 Basic Water Haul cost: $\$0.61/\text{cy} \times 163\text{cy} = \99.43 Water Haul -15% grades: \$0.13/cy-mi x 163cy x 1.00 mi= \$21.19 Quarry Name: Hoover, 6-0" Base Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 0.12mi 14ft 16ft 6in Rock Volume = 188cy Royalty: $$10.00/\text{cy} \times 188\text{cy} = $1,880.00$ Processing: $$1.38/cy \times 188cy = 259.44 Compaction: $$0.77/cy \times 188cy = 144.76 Basic Rock Haul cost: \$0.93/cy x 188cy = \$174.84 Rock Haul -15% grades: \$1.39/cy-mi x 188cy x 3.00 mi= \$783.96 Rock Haul St& Co Roads: \$0.62/cy-mi x 188cy x 20.00 mi= \$2,331.20 Basic Water Haul cost: \$0.61/cy x 188cy = \$114.68 Water Haul -15% grades: \$0.13/cy-mi x 188cy x 1.00 mi= \$24.44 Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing Comment: Rock for end landing and truck turn-around <u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 60cv Rock Volume = 60cyRoyalty: $$8.00/cy \times 60cy = 480.00 Processing: $$1.38/cy \times 60cy = 82.80 Compaction: $$0.77/cy \times 60cy = 46.20

Basic Rock Haul cost: $$0.93/\text{cy} \times 60\text{cy} = 55.80

Basic Water Haul cost: $$0.61/\text{cy} \times 60\text{cy} = 36.60

Rock Haul -15% grades: \$1.39/cy-mi x 60cy x 3.00 mi= \$250.20 Rock Haul St& Co Roads: \$0.62/cy-mi x 60cy x 20.00 mi= \$744.00 Road Number: 26-12-35.8 C Continued

Noad Number. 20 12 33.0 C Contin	ueu		
Water Haul -15% grades: \$0.13/cy	-mi x 60cy x 1.00 mi= \$7.80	Subtotal:	\$13,454.24
Section 1300 Geotextiles:		Subtotal:	\$0.00
Section 1400 Slope Protection:		Subtotal:	\$0.00
Section 1800 Soil Stabilization: Dry Method with Mulch: \$534.65/a Includes Small Quantity Fa		Subtotal:	\$53.46
Section 1900 Cattleguards:		Subtotal:	\$0.00
Section 2100 Roadside Brushing:		Subtotal:	\$0.00
Section 2200 Surface Treatment:		Subtotal:	\$0.00
Section 2300 Engineering:		Subtotal:	\$0.00
Section 2400 Minor Concrete:		Subtotal:	\$0.00
Section 2500 Gabions:		Subtotal:	\$0.00
Section 8000 Miscellaneous:		Subtotal:	\$0.00
Mobilization: Construction - 8.75% of total Co Surfacing - 9.81% by rock volume		Subtotal:	\$491.13
Quarry Development: Based on 9.81% of total rock vol	ume	Subtotal:	\$0.00

Total: \$17,070.89

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: 26-12-35.9 C Road Name: Road Construction: 0.32 mi 16 ft Subgrade 0 ft ditch T.S. Update	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$5 , 697.39
400 Drainage:	\$660.00
500 Renovation:	\$0.00
Surfacing:	\$37,780.36
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.4 acres	\$213.86
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$1,313.79 Surf. \$0.00	\$1,313.79
Quarry Development:	\$0.00
Total: Notes:	\$45,665.40

Road Number: 26-12-35.9 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr $$18.57/sta. \times 16.9 sta = 313.83

Blading: \$11.32/station x 16.90 stations = \$191.31

Subgrade construction

Tractor: D7 with rippers 35 hr x \$148.35/hr = \$5,192.25

Subtotal: \$5,697.39

Section 400 Drainage:

Sta. 0+00 culvert

12" aluminized, 14 gage CMP

30 LF x \$22.00/LF = \$660.00

Subtotal: \$660.00

Section 500 Renovation:

Subtotal: \$0.00

3-0" Crushed aggregate Quarry Name: Hoover, 3-0"

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

0.32mi 12ft 16ft 12in 7% 1 10ft 50ft 50ft

Rock Volume = 974cy

Royalty: $$16.65/cy \times 974cy = $16,217.10$

Processing: $$1.38/cy \times 974cy = $1,344.12$

Compaction: $$0.77/cy \times 974cy = 749.98

Basic Rock Haul cost: $$0.93/cy \times 974cy = 905.82

Rock Haul -15% grades: \$1.39/cy-mi x 974cy x 3.00 mi= \$4,061.58

Rock Haul St& Co Roads: \$0.62/cy-mi x 974cy x 20.00 mi= \$12,077.60

Basic Water Haul cost: $$0.61/cy \times 974cy = 594.14

Water Haul -15% grades: \$0.13/cy-mi x 974cy x 1.00 mi= \$126.62

Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing

Comment: Rock for end landing and truck-turnaround

<u>Length TopW BotW Depth CWid #TOs Width F.W.L Taper 60cy</u>

Rock Volume = 60cy

Royalty: $$8.00/cy \times 60cy = 480.00

Processing: $$1.38/cy \times 60cy = 82.80

Compaction: $$0.77/cy \times 60cy = 46.20

Basic Rock Haul cost: $$0.93/\text{cy} \times 60\text{cy} = 55.80

Rock Haul -15% grades: \$1.39/cy-mi x 60cy x 3.00 mi= \$250.20

Rock Haul St& Co Roads: \$0.62/cy-mi x 60cy x 20.00 mi= \$744.00

Basic Water Haul cost: $$0.61/\text{cy} \times 60\text{cy} = 36.60

Water Haul -15% grades: \$0.13/cy-mi x 60cy x 1.00 mi= \$7.80

Subtotal: \$37,780.36

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.40 acres = 213.86

Includes Small Quantity Factor of 1.47

Subtotal: \$213.86

Road Number: 26-12-35.9 C Continued

Section 1900 Cattleguards:

Mobilization:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Construction - 23.42% of total Costs = \$1,313.79 Surfacing - 24.69% by rock volume = \$0.00

Subtotal: \$1,313.79

Quarry Development:

Based on 24.69% of total rock volume

Subtotal: \$0.00

Total: \$45,665.40

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 1 C Road Name:	05/15/10
Road Construction: 0.07 mi 16 ft Subgrade 0 ft ditch T.S. Update	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$1,600.07
400 Drainage:	\$660.00
500 Renovation:	\$0.00
Surfacing:	\$8,250.81
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$312.94 Surf. \$0.00	\$312.94
Quarry Development:	\$0.00
Total: Notes: Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.	\$10,877.28

Road Number: Spur 1 C Road Name: Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 3.9 sta = \$72.42 Blading: \$11.32/station x 3.90 stations = \$44.15Subgrade construction Tractor: D7 with rippers 10 hr x \$148.35/hr = \$1,483.50Subtotal: \$1,600.07 Section 400 Drainage: Sta. 0+00 culvert 12" aluminized, 14 gage CMP 30 LF x \$22.00/LF = \$660.00Subtotal: \$660.00 Section 500 Renovation: Subtotal: \$0.00 3-0" Crushed aggregate Quarry Name: Hoover, 3-0" <u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 0.07mi 12ft 14ft 6in Rock Volume = 95cyRoyalty: $$16.65/cy \times 95cy = $1,581.75$ Processing: $$1.38/cy \times 95cy = 131.10 Compaction: $$0.77/cy \times 95cy = 73.15 Basic Rock Haul cost: $$0.93/cy \times 95cy = 88.35 Rock Haul -15% grades: \$1.39/cy-mi x 95cy x 3.00 mi= \$396.15 Rock Haul St& Co Roads: \$0.62/cy-mi x 95cy x 20.00 mi= \$1,178.00 Basic Water Haul cost: $$0.61/cv \times 95cv = 57.95 Water Haul -15% grades: \$0.13/cy-mi x 95cy x 1.00 mi= \$12.35 Quarry Name: Hoover, 6-0" Base <u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 0.07mi 14ft 16ft 6in Rock Volume = 109cyRoyalty: $$10.00/\text{cy} \times 109\text{cy} = $1,090.00$ Processing: $$1.38/cy \times 109cy = 150.42 Compaction: $$0.77/cy \times 109cy = 83.93 Basic Rock Haul cost: \$0.93/cy x 109cy = \$101.37 Rock Haul -15% grades: \$1.39/cy-mi x 109cy x 3.00 mi= \$454.53 Rock Haul St& Co Roads: \$0.62/cy-mi x 109cy x 20.00 mi= \$1,351.60 Basic Water Haul cost: $$0.61/\text{cy} \times 109\text{cy} = 66.49 Water Haul -15% grades: \$0.13/cy-mi x 109cy x 1.00 mi= \$14.17 Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing Comment: Rock for end landing Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 50cv Rock Volume = 50cyRoyalty: $$8.00/cy \times 50cy = 400.00 Processing: $$1.38/cy \times 50cy = 69.00 Compaction: $$0.77/cy \times 50cy = 38.50 Basic Rock Haul cost: $$0.93/\text{cy} \times 50\text{cy} = 46.50 Rock Haul -15% grades: \$1.39/cy-mi x 50cy x 3.00 mi= \$208.50

Rock Haul St& Co Roads: \$0.62/cy-mi x 50cy x 20.00 mi= \$620.00

Basic Water Haul cost: $$0.61/\text{cy} \times 50\text{cy} = 30.50

Road Number: Spur 1 C Continued

-		
Water Haul -15% grades: \$0.13/cy-mi x 50cy x 1.00 mi= \$6.50	Subtotal:	\$8,250.81
Section 1300 Geotextiles:	Subtotal:	\$0.00
Section 1400 Slope Protection:	Subtotal:	\$0.00
<pre>Section 1800 Soil Stabilization: Dry Method with Mulch: \$534.65/acre x 0.10 acres = \$53.46</pre>	Subtotal:	\$53.46
Section 1900 Cattleguards:	Subtotal:	\$0.00
Section 2100 Roadside Brushing:	Subtotal:	\$0.00
Section 2200 Surface Treatment:	Subtotal:	\$0.00
Section 2300 Engineering:	Subtotal:	\$0.00
Section 2400 Minor Concrete:	Subtotal:	\$0.00
Section 2500 Gabions:	Subtotal:	\$0.00
Section 8000 Miscellaneous:	Subtotal:	\$0.00
Mobilization: Construction - 5.58% of total Costs = \$312.94 Surfacing - 6.06% by rock volume = \$0.00	Subtotal:	\$312.94
Quarry Development: Based on 6.06% of total rock volume	Subtotal:	\$0.00

Total: \$10,877.28

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 2 C Road Name:	
Road Construction: 0.08 mi 12 ft Subgrade 0 ft ditch T.S. Updat	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$1,911.72
<pre>400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf</pre>	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$10,370.76
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$365.42 Surf. \$0.00	\$365.42
Quarry Development:	\$0.00
Total: Notes:	\$12,701.36

Notes:

Road Number: Spur 2 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr $$18.57/sta. \times 4.4 sta = 81.71

Blading: \$11.32/station x 4.40 stations = \$49.81

Subgrade construction

Tractor: D7 with rippers 12 hr x \$148.35/hr = \$1,780.20

Subtotal: \$1,911.72

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

3-0" Crushed aggregate Quarry Name: Hoover, 3-0"

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

0.08mi 12ft 16ft 12in 7%

Rock Volume = 234cy

Royalty: $$16.65/cy \times 234cy = $3,896.10$

Processing: $$1.38/cy \times 234cy = 322.92

Compaction: $$0.77/cy \times 234cy = 180.18

Basic Rock Haul cost: $$0.93/cy \times 234cy = 217.62

Rock Haul -15% grades: \$1.39/cy-mi x 234cy x 3.00 mi= \$975.78

Rock Haul St& Co Roads: \$0.62/cy-mi x 234cy x 20.00 mi= \$2,901.60

Basic Water Haul cost: $$0.61/\text{cy} \times 234\text{cy} = 142.74

Water Haul -15% grades: \$0.13/cy-mi x 234cy x 1.00 mi= \$30.42

Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing

Comment: Rock for end landing and truck-turnaround

<u>Length TopW BotW Depth CWid</u> #Tos Width F.W.L Taper Other 60cv

Rock Volume = 60cy

Royalty: $$8.00/\text{cy} \times 60\text{cy} = 480.00

Processing: $$1.38/cy \times 60cy = 82.80

Compaction: $$0.77/cy \times 60cy = 46.20

Basic Rock Haul cost: $$0.93/\text{cy} \times 60\text{cy} = 55.80

Rock Haul -15% grades: \$1.39/cy-mi x 60cy x 3.00 mi= \$250.20

Rock Haul St& Co Roads: \$0.62/cy-mi x 60cy x 20.00 mi= \$744.00

Basic Water Haul cost: $$0.61/\text{cy} \times 60\text{cy} = 36.60

Water Haul -15% grades: \$0.13/cy-mi x 60cy x 1.00 mi= \$7.80

Subtotal: \$10,370.76

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46

Includes Small Quantity Factor of 1.47

Subtotal: \$53.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Road Number: Spur 2 C Continued

Section 2100 Roadside Brushing:

Section 2200 Surface Treatment:

Mobilization:

Quarry Development:

Subtotal: \$0.00

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Construction - 6.51% of total Costs = \$365.42 Surfacing - 7.02% by rock volume = \$0.00

Subtotal: \$365.42

Based on 7.02% of total rock volume

Subtotal: \$0.00

Total: \$12,701.36

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 3 C Road Name: Road Construction: 0.08 mi 12 ft Subgrade 0 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$2,353.78
400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$71.31 Surf. \$0.00	\$71.31
Quarry Development:	\$0.00
Total: Notes:	\$2,478.55

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Spur 3 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr $$18.57/sta. \times 4.3 sta = 79.85

Blading: \$11.32/station x 4.30 stations = \$48.68

Subgrade construction

Tractor: D7 with rippers 15 hr x \$148.35/hr = \$2,225.25

Subtotal: \$2,353.78

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Surfacing:

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46

Includes Small Quantity Factor of 1.47

Subtotal: \$53.46

Section 1900 Cattleguards:

Section 2100 Roadside Brushing:

Section 2200 Surface Treatment:

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 1.27% of total Costs = \$71.31

Surfacing - 0.00% by rock volume = \$0.00

Total: \$2,478.55

Subtotal: \$71.31

Subtotal: \$0.00

Subtotal: \$0.00

Subtotal: \$0.00

Subtotal: \$0.00

\$0.00

Subtotal:

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 4 C Road Name:	05/45/40
Road Construction: 0.14 mi 12 ft Subgrade 0 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$2,446.44
400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.2 acres	\$106.93
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$75.64 Surf. \$0.00	\$75.64
Quarry Development:	\$0.00
Total:	\$2,629.00
Notes: Ouantities shown are estimates only and not pay items	

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Spur 4 C Road Name:

Section 200 Clearing and Grubbing: Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 7.4 sta = \$137.42

Blading: \$11.32/station x 7.40 stations = \$83.77

Subgrade construction

Tractor: D7 with rippers 15 hr x \$148.35/hr = \$2,225.25

Subtotal: \$2,446.44

Section 400 Drainage:

Section 500 Renovation:

Surfacing:

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.20 acres = 106.93

Includes Small Quantity Factor of 1.47

Subtotal: \$106.93

Section 1900 Cattleguards:

Section 2100 Roadside Brushing:

Section 2200 Surface Treatment:

Section 2300 Engineering: \$0.00 Subtotal:

Mobilization:

Construction - 1.35% of total Costs = \$75.64 Surfacing - 0.00% by rock volume = \$0.00

Total: \$2,629.00

Subtotal: \$75.64

Subtotal:

Subtotal: \$0.00

Subtotal: \$0.00

Subtotal: \$0.00

Subtotal: \$0.00

\$0.00

Subtotal:

\$0.00

ROAD CONSTRUCTION SUMMARY

200 Clearing and Grubbing: 0.0 acres \$0.00	T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 5 C Road Name: Road Construction: 0.09 mi 16 ft Subgrade 0 ft ditch T.S. Updat	05/15/12
Clearing:0.0 sta		
### A00 Drainage:	Clearing:0.0 sta Grubbing:0.0 acres	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf 500 Renovation: \$0.00 Surfacing: \$10,507.27 Quarry Name: Hoover, 3-0" 122 cy Quarry Name: Hoover, 6-0" Base 141 cy Quarry Name: Hoover, 6-0" Landing 60 cy 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.1 acres \$53.46 Includes Small Quantity Factor of 1.47 1900 Cattleguards: \$0.00 2100 RoadSide Brushing: 0.0 acres \$0.00 2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00. \$371.61 Quarry Development: \$0.00 Total: \$12,916.64	300 Excavation:	\$1,324.29
Surfacing: \$10,507.27 Quarry Name: Hoover, 3-0" 122 cy \$0,000 Quarry Name: Hoover, 6-0" Base 141 cy \$0.00 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.1 acres \$53.46 Includes Small Quantity Factor of 1.47 \$0.00 1900 Cattleguards: \$0.00 2100 RoadSide Brushing: 0.0 acres \$0.00 2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Total: \$12,916.64	Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf	\$660.00
Quarry Name: Hoover, 3-0" 122 cy Quarry Name: Hoover, 6-0" Base 141 cy \$0.00 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.1 acres \$53.46 Includes Small Quantity Factor of 1.47 \$0.00 2100 RoadSide Brushing: 0.0 acres \$0.00 2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Total: \$12,916.64	500 Renovation:	\$0.00
1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.1 acres \$53.46 Includes Small Quantity Factor of 1.47 \$0.00 2100 RoadSide Brushing: 0.0 acres \$0.00 2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Total: \$12,916.64 Notes:	Quarry Name: Hoover, 3-0" 122 cy Quarry Name: Hoover, 6-0" Base 141 cy	\$10,507.27
1800 Soil Stabilization: 0.1 acres Includes Small Quantity Factor of 1.47 \$53.46 1900 Cattleguards: \$0.00 \$0.00 2100 RoadSide Brushing: 0.0 acres \$0.00 \$0.00 2200 Surface Treatment: 0.0 tons \$0.00 \$0.00 2300 Engineering: 0.00 sta. \$0.00 \$0.00 2400 Minor Concrete: \$0.00 \$0.00 2500 Gabions: \$0.00 \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00. \$371.61 \$371.61 Quarry Development: \$0.00 \$0.00 Notes: \$12,916.64	1300 Geotextiles:	\$0.00
Includes Small Quantity Factor of 1.47 1900 Cattleguards: \$0.00 2100 RoadSide Brushing: 0.0 acres \$0.00 2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Notes: Total: \$12,916.64	1400 Slope Protection:	\$0.00
2100 RoadSide Brushing: 0.0 acres \$0.00 2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Total: \$12,916.64 Notes:		\$53.46
2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Notes: Total: \$12,916.64	1900 Cattleguards:	\$0.00
2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Notes:	2100 RoadSide Brushing: 0.0 acres	\$0.00
2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Notes: Total: \$12,916.64	2200 Surface Treatment: 0.0 tons	\$0.00
2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Notes:	2300 Engineering: 0.00 sta	\$0.00
8000 Miscellaneous: \$0.00 Mobilization: Const. \$371.61 Surf. \$0.00 \$371.61 Quarry Development: \$0.00 Notes: Total: \$12,916.64	2400 Minor Concrete:	\$0.00
Mobilization: Const. \$371.61 Surf. \$0.00	2500 Gabions:	\$0.00
Quarry Development: \$0.00 Total: \$12,916.64 Notes:	8000 Miscellaneous:	\$0.00
Total: \$12,916.64 Notes:	Mobilization: Const. \$371.61 Surf. \$0.00	\$371.61
Notes:	Quarry Development:	\$0.00
		\$12,916.64

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Number: Spur 5 C Road Name: Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 4.6 sta = \$85.42 Blading: \$11.32/station x 4.60 stations = \$52.07Subgrade construction Tractor: D7 with rippers 8 hr x \$148.35/hr = \$1,186.80Subtotal: \$1,324.29 Section 400 Drainage: Sta. 0+00 culvert 12" aluminized, 14 gage CMP 30 LF x \$22.00/LF = \$660.00Subtotal: \$660.00 Section 500 Renovation: Subtotal: \$0.00 3-0" Crushed aggregate Quarry Name: Hoover, 3-0" <u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 0.09mi 12ft 14ft 6in Rock Volume = 122cyRoyalty: $$16.65/cy \times 122cy = $2,031.30$ Processing: $$1.38/cy \times 122cy = 168.36 Compaction: $$0.77/cy \times 122cy = 93.94 Basic Rock Haul cost: \$0.93/cy x 122cy = \$113.46 Rock Haul -15% grades: \$1.39/cy-mi x 122cy x 3.00 mi= \$508.74 Rock Haul St& Co Roads: \$0.62/cy-mi x 122cy x 20.00 mi= \$1,512.80 Basic Water Haul cost: $\$0.61/\text{cy} \times 122\text{cy} = \74.42 Water Haul -15% grades: \$0.13/cy-mi x 122cy x 1.00 mi= \$15.86 Quarry Name: Hoover, 6-0" Base <u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 0.09mi 14ft 16ft 6in Rock Volume = 141cy Royalty: $$10.00/\text{cy} \times 141\text{cy} = $1,410.00$ Processing: $$1.38/cy \times 141cy = 194.58 Compaction: $$0.77/cy \times 141cy = 108.57 Basic Rock Haul cost: \$0.93/cy x 141cy = \$131.13 Rock Haul -15% grades: \$1.39/cy-mi x 141cy x 3.00 mi= \$587.97 Rock Haul St& Co Roads: \$0.62/cy-mi x 141cy x 20.00 mi= \$1,748.40 Basic Water Haul cost: $\$0.61/\text{cy} \times 141\text{cy} = \86.01 Water Haul -15% grades: \$0.13/cy-mi x 141cy x 1.00 mi= \$18.33 Jaw run, landing & tta Quarry Name: Hoover, 6-0" Landing Comment: Rock for end landing and truck-turnaround <u>Length TopW BotW Depth CWid</u> #TOs Width F.W.L Taper Other 60cv Rock Volume = 60cyRoyalty: $$8.00/cy \times 60cy = 480.00 Processing: $$1.38/cy \times 60cy = 82.80 Compaction: $$0.77/cy \times 60cy = 46.20 Basic Rock Haul cost: $$0.93/\text{cy} \times 60\text{cy} = 55.80 Rock Haul -15% grades: \$1.39/cy-mi x 60cy x 3.00 mi= \$250.20

Rock Haul St& Co Roads: \$0.62/cy-mi x 60cy x 20.00 mi= \$744.00

Basic Water Haul cost: $$0.61/\text{cy} \times 60\text{cy} = 36.60

Road Number: Spur 5 C Continued

Based on 7.71% of total rock volume

Water Haul -15% grades: \$0.13/cy-mi x 60cy x 1.00 mi= \$7.80 Subtotal: \$10,507.27 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46 Includes Small Quantity Factor of 1.47 Subtotal: \$53.46 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2200 Surface Treatment: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous: Subtotal: \$0.00 Mobilization: Construction - 6.62% of total Costs = \$371.61 Surfacing - 7.71% by rock volume = \$0.00Subtotal: \$371.61 Quarry Development:

Subtotal:

Total: \$12,916.64

\$0.00

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 6 C Road Name:	
Road Construction: 0.11 mi 12 ft Subgrade 0 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$1,656.86
400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$50.66 Surf. \$0.00	\$50.66
Quarry Development:	\$0.00
Total:	\$1,760.99
Notes: Ouantities shown are estimates only and not pay items	

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Spur 6 C Road Name:

Section 200 Clearing and Grubbing: Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 5.8 sta = \$107.71

Blading: \$11.32/station x 5.80 stations = \$65.66

Subgrade construction

Tractor: D7 with rippers 10 hr x \$148.35/hr = \$1,483.50

Subtotal: \$1,656.86

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Surfacing:

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46

Includes Small Quantity Factor of 1.47

Subtotal: \$53.46

Section 1900 Cattleguards:

Section 2100 Roadside Brushing:

Section 2200 Surface Treatment:

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 0.90% of total Costs = \$50.66 Surfacing - 0.00% by rock volume = \$0.00

Total: \$1,760.99

Subtotal: \$50.66

Subtotal: \$0.00

Subtotal: \$0.00

Subtotal: \$0.00

Subtotal: \$0.00

\$0.00

Subtotal:

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 7 C Road Name: Road Construction: 0.04 mi 12 ft Subgrade 0 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$503.34
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$16.49 Surf. \$0.00	\$16.49
Quarry Development:	\$0.00
Total: Notes:	\$573.29
Ouantities shown are estimates only and not have items	

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Spur 7 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 2.0 sta = \$36.21

Blading: \$11.32/station x 1.95 stations = \$22.07

Subgrade construction

Tractor: D7 with rippers 3 hr x \$148.35/hr = \$445.05Subtotal: \$503.34

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46

Includes Small Quantity Factor of 1.47

Subtotal: \$53.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 0.29% of total Costs = \$16.49

Surfacing - 0.00% by rock volume = \$0.00

Total: \$573.29

Subtotal: \$16.49

Subtotal: \$0.00

Subtotal:

\$0.00

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 8 R Road Name:	05/15/10
Road Renovation: 0.09 mi 12 ft Subgrade 0 ft ditch T.S. Update	e 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation: Blading 0.09 mi	\$685.78
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$21.90 Surf. \$0.00	\$21.90
Quarry Development:	\$0.00
Total: Notes:	\$761.14
Oughtities shows and estimates only and not now items	

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Spur 8 R Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $$512.82/mi \times 0.09 mi = 46.15

Scarification: $$854.70/mi \times 0.09 mi = 76.92 Compaction: $$1307.22/mi \times 0.09 mi = 117.65

Subgrade renovation

Tractor: D7 with rippers 3 hr x \$148.35/hr = \$445.05

Subtotal: \$685.78

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$534.65/acre \times 0.10 acres = 53.46

Includes Small Quantity Factor of 1.47

Subtotal: \$53.46

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

 ${\tt Mobilization:}$

Construction - 0.39% of total Costs = \$21.90

Surfacing - 0.00% by rock volume = \$0.00

Total: \$761.14

Subtotal: \$21.90

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Blue 35 CT Sale Date: Road Number: Spur 9 C Road Name: Road Construction: 0.25 mi 12 ft Subgrade 0 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$4,848.04
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$160.39
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$148.36 Surf. \$0.00	\$148.36
Quarry Development:	\$0.00
Notes:	\$5,156.79

Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Spur 9 C Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 13.3 sta = \$246.98

Blading: \$11.32/station x 13.30 stations = \$150.56

Subgrade construction

Tractor: D7 with rippers 30 hr x \$148.35/hr = \$4,450.50

Subtotal: \$4,848.04

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Subtotal: \$0.00

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$534.65/acre x 0.30 acres = \$160.39

Includes Small Quantity Factor of 1.47

Subtotal: \$160.39

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Mobilization:

Construction - 2.64% of total Costs = \$148.36

Surfacing - 0.00% by rock volume = \$0.00

Total: \$5,156.79

Subtotal: \$148.36

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Blue 35 CT Sale Date:

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Comment: Lump sum = Equipment wash

Fire Equipment: 1 ea x (1.00 x \$131.00/ea + 0 mi x \$3.50/mi) = \$131.00Graders-all: 1 ea x $(1.00 \times \$356.00/ea + 0 \text{ mi } \times \$13.78/mi) = \$356.00$

Brush Cutter: 1 ea x $(1.00 \times \$356.00/ea) = \356.00

Loaders < 3cy: 1 ea x $(1.00 \times \$356.00/ea + 0 \text{ mi x } \$7.45/mi) = \$356.00$ Rollers & Comp: 1 ea x $(1.00 \times \$356.00/ea + 0 \text{ mi } \times \$14.85/mi) = \$356.00$ 1 ea x $(1.00 \times $680.00/ea + 0 mi \times $22.33/mi) = 680.00 Excavators: RTBackhoes 24/30: 1 ea x $(1.00 \times $356.00/ea + 0 \text{ mi } x \$4.84/mi) = \$356.00$ Tractors <= D7: 1 ea x $(1.00 \times $518.00/ea + 0 \text{ mi } x \$29.49/mi) = \$518.00$ Dump Truck<=10cy: 1 ea x (1.00 x \$185.00/ea + 0 mi x \$3.70/mi) = \$185.00</pre> Water Truck: 1 ea x $(1.00 \times \$216.00/ea + 0 \text{ mi x } \$4.33/mi) = \$216.00$

Lump Sum: \$2,100.00

Subtotal: \$5,610.00

Mobilization: Surfacing

Subtotal: \$0.00

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: Blue 35 CT Sale Date:

Road Number 26-12-35.0 R 26-12-35.1 R	Const	Improv	Renov 5.28 73.92	Decomm	Temp		
26-12-35.10 C	5.30		13.32				
26-12-35.10 R	5 00		2.65				
26-12-35.11 C 26-12-35.12 C	6.00 5.45						
26-12-35.2 R 26-12-35.3 R 26-12-35.5 R	3.13		51.74 26.40 7.92				
26-12-35.8 C	6.25		7.52				
26-12-35.9 C	16.90						
Spur 1 C Spur 2 C	3.90 4.40						
Spur 3 C	4.30						
Spur 4 C	7.40						
Spur 5 C Spur 6 C	4.60 5.80						
Spur 7 C	1.95						
Spur 8 R			4.50				
Spur 9 C	13.30						
Total Sta:	85.55		172.41				
200 Clearing and	Grubbing**		Clearing stations	Grubbing acres	Slash acres		
		Totals:	0.00	0.0	0.0		
	**Ir	ncluded ir	n Time and	Equipment	for Excavat	cion	
300 Excavation			Excav	Haul			
			C.Y.s	sta-yds			
		Totals:	0	0			
Subgrade constr 26-12-35.10 CT		with rip	pers				10 hr
Subgrade constr		1.1					
26-12-35.11 CT Subgrade constr		with rip	pers				12 hr
26-12-35.12 CT	ractor: D7	with rip	pers				12 hr
Subgrade constr 26-12-35.8 C T		with rip	pers				15 hr
Subgrade constr 26-12-35.9 C T		with rin	ners				35 hr
Subgrade constr		wich iip	pero				33 111
		with rip	pers				10 hr
Subgrade constr Spur 2 C T		with rip	pers				12 hr
Subgrade constr	uction						
Spur 3 C T Subgrade constr		with rip	pers				15 hr
=		with rip	pers				15 hr
Subgrade constr	uction						
Spur 5 C T Subgrade constr		with rip	pers				8 hr
		with rip	pers				10 hr

Continuation	of	Construction	Quantities	

Subgrade construction					
Spur 7 C Tractor: D7 with	rippers				3 hr
Subgrade construction					20 1
Spur 9 C Tractor: D7 with	rippers				30 nr
400 Drainage					
26-12-35.2 R Poly Pipe 18	inch 30 lf	.			
Culvert part					
26-12-35.2 R Marker Sta. 0+00 culvert					1 EA
26-12-35.8 C 12" aluminized, 1	4 dade CMP				30 LF
Sta. 0+00 culvert	.4 gage cm				30 HI
26-12-35.9 C 12" aluminized, 1	.4 gage CMP .				30 LF
Sta. 0+00 culvert					
Spur 1 C 12" aluminized, 1	.4 gage CMP .				30 LF
Sta. 0+00 culvert	4 000				20
Spur 5 C 12" aluminized, 1	.4 gage CMP .				30 LF.
500 Renovation	Miles	Slide cy			
26-12-35.0 R	0.10	0			
26-12-35.1 R	1.40	0			
26-12-35.10 R	0.05	0			
26-12-35.2 R	0.98	0			
26-12-35.3 R	0.50	0			
26-12-35.5 R	0.15	0			
Spur 8 R	0.09	0			
Totals	3.27				
Subgrade renovation	5.21	U			
	rinners				3 hr
Spur 8 R Tractor: D7 with	rippers				3 hr
	rippers				3 hr
	rippers				3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards)	rippers				3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0"					3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate	Roadway	Turnouts	Other		3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C	Roadway 163	Turnouts 0	Other 0	163	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C	Roadway 163 937	Turnouts 0 37	Other 0 0	163 974	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C	Roadway 163 937 95	Turnouts 0 37 0	Other 0 0 0	163 974 95	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C	Roadway 163 937 95 234	Turnouts 0 37 0 0	Other 0 0 0	163 974 95 234	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C	Roadway 163 937 95 234 122	Turnouts 0 37 0 0	Other 0 0 0 0	163 974 95 234 122	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C	Roadway 163 937 95 234 122 136	Turnouts 0 37 0 0 0 0	Other 0 0 0 0 0	163 974 95 234 122 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C	Roadway 163 937 95 234 122 136 322	Turnouts 0 37 0 0 0 0 0	Other 0 0 0 0 0	163 974 95 234 122 136 322	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C	Roadway 163 937 95 234 122 136	Turnouts 0 37 0 0 0 0	Other 0 0 0 0 0	163 974 95 234 122 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C	Roadway 163 937 95 234 122 136 322 136	Turnouts 0 37 0 0 0 0 0	Other 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C	Roadway 163 937 95 234 122 136 322 136	Turnouts 0 37 0 0 0 0 0	Other 0 0 0 0 0	163 974 95 234 122 136 322	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C	Roadway 163 937 95 234 122 136 322 136	Turnouts 0 37 0 0 0 0 0	Other 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile	Roadway 163 937 95 234 122 136 322 136	Turnouts 0 37 0 0 0 0 0	Other 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile	Roadway 163 937 95 234 122 136 322 136	Turnouts 0 37 0 0 0 0 0	Other 0 0 0 0 0 0 0 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R	Roadway 163 937 95 234 122 136 322 136 322 136	Turnouts 0 37 0 0 0 0 0 0 7 37 Turnouts	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile	Roadway 163 937 95 234 122 136 322 136 322 136	Turnouts 0 37 0 0 0 0 0	Other	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R	Roadway 163 937 95 234 122 136 322 136 322 136	Turnouts 0 37 0 0 0 0 0 0 7 37 Turnouts	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R Totals	Roadway 163 937 95 234 122 136 322 136 3: 2,145 Roadway 0	Turnouts 0 37 0 0 0 0 0 7 37 Turnouts 0 0 0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 Ther 150	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R Totals Quarry Name: Hoover, 6-0" Base Jaw run	Roadway 163 937 95 234 122 136 322 136 3: 2,145 Roadway 0 Roadway	Turnouts 0 37 0 0 0 0 0 0 7 37 Turnouts 0 Turnouts	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 150 Other	163 974 95 234 122 136 322 136 	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R Totals Quarry Name: Hoover, 6-0" Base Jaw run 26-12-35.8 C	Roadway 163 937 95 234 122 136 322 136 322 136 3: 0 Roadway 0 Roadway 188	Turnouts 0 37 0 0 0 0 0 0 37 Turnouts 0 Turnouts 0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 150 Other 0	163 974 95 234 122 136 322 136 	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R Totals Quarry Name: Hoover, 6-0" Base Jaw run 26-12-35.8 C Spur 1 C	Roadway 163 937 95 234 122 136 322 136 322 136 3: 0 Roadway 0 Roadway 188 109	Turnouts 0 37 0 0 0 0 0 0 0 7 37 Turnouts 0 Turnouts 0 0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 150 Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	163 974 95 234 122 136 322 136 	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R Totals Quarry Name: Hoover, 6-0" Base Jaw run 26-12-35.8 C Spur 1 C Spur 5 C	Roadway 163 937 95 234 122 136 322 136 322 136 3: 0 Roadway 0 Roadway 188 109 141	Turnouts 0 37 0 0 0 0 0 0 0 7 37 Turnouts 0 0 Turnouts 0 0 0 0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R Totals Quarry Name: Hoover, 6-0" Base Jaw run 26-12-35.8 C Spur 1 C Spur 5 C 26-12-35.10 C	Roadway 163 937 95 234 122 136 322 136 322 136 3: 0 Roadway 0 Roadway 188 109 141 156	Turnouts 0 37 0 0 0 0 0 0 0 0 7 37 Turnouts 0 0 Turnouts 0 0 0 0 0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr
Spur 8 R Tractor: D7 with Surfacing (Cubic Yards) Quarry Name: Hoover, 3-0" 3-0" Crushed aggregate 26-12-35.8 C 26-12-35.9 C Spur 1 C Spur 2 C Spur 5 C 26-12-35.10 C 26-12-35.11 C 26-12-35.12 C Totals Quarry Name: Hoover, 1.5-0", pile Crushed aggregate, stockpile 26-12-35.10 R Totals Quarry Name: Hoover, 6-0" Base Jaw run 26-12-35.8 C Spur 1 C Spur 5 C	Roadway 163 937 95 234 122 136 322 136 322 136 3: 0 Roadway 0 Roadway 188 109 141	Turnouts 0 37 0 0 0 0 0 0 0 7 37 Turnouts 0 0 Turnouts 0 0 0 0	Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	163 974 95 234 122 136 322 136	3 hr

Spur 7 C Spur 8 R Spur 9 C

	Totals:	750	0	0	750
Quarry Name: Hoover, 6-0'	Landing	D = = =		O + la o - o	
Jaw run, landing & tta 26-12-35.10 C		Roadway 0	Turnouts 0	Other 50	50
26-12-35.10 C 26-12-35.11 C		0	0	60	60
26-12-35.11 C 26-12-35.12 C		0	0	60	60
26-12-35.12 C 26-12-35.8 C		0	0	60	60
26-12-35.9 C		0	0	60	60
Spur 1 C		0	0	50	50
Spur 2 C		0	0	60	60
Spur 5 C		0	0	60	60
		-	-		
	Totals:	0	0	460	460
Quarry Name: Hoover, 1.5-	-0", spot				
Crushed aggregate, spot		Roadway	Turnouts	Other	
26-12-35.0 R		0	0	20	20
26-12-35.1 R		0	0	250	250
26-12-35.2 R		0	0	10	10
26-12-35.5 R		0	0	40	40
	Totals:	0	0	320	320
Quarry Name: Hoover 1.5-0)"surface				
Crushed aggregate surface		Roadway	Turnouts	Other	
26-12-35.2 R	2 IOCK	282	0	0	282
26-12-35.3 R		44	0	0	44
			-		
	Totals:	326	0	0	326
1300 Geotextiles					
1300 0000011105	Totals:	No Quanti	ties		
		200000			
1400 Slope Protection					
	Totals:				
	100415.	0			
1800 Soil stabilization -	- acres	Dry W/O	Dry/with	Hydro	
1000 BOIL BEADILIZACION	acres	Mulch	Mulch	Mulch	
26-12-35.10 C		0.0	0.1	1102011	
26-12-35.11 C		0.0	0.1		
26-12-35.12 C		0.0	0.1		
26-12-35.2 R		0.0	0.1		
26-12-35.8 C		0.0	0.1		
26-12-35.9 C		0.0	0.4		
Spur 1 C		0.0	0.1		
Spur 2 C		0.0	0.1		
Spur 3 C		0.0	0.1		
Spur 4 C		0.0	0.2		
Spur 5 C		0.0	0.1		
Spur 6 C		0.0	0.1		
Spur 7 C		0.0	0.1		

0.0 2.1 0.0 Totals: Small Quantity Factor of 1.58 used

0.0

0.0

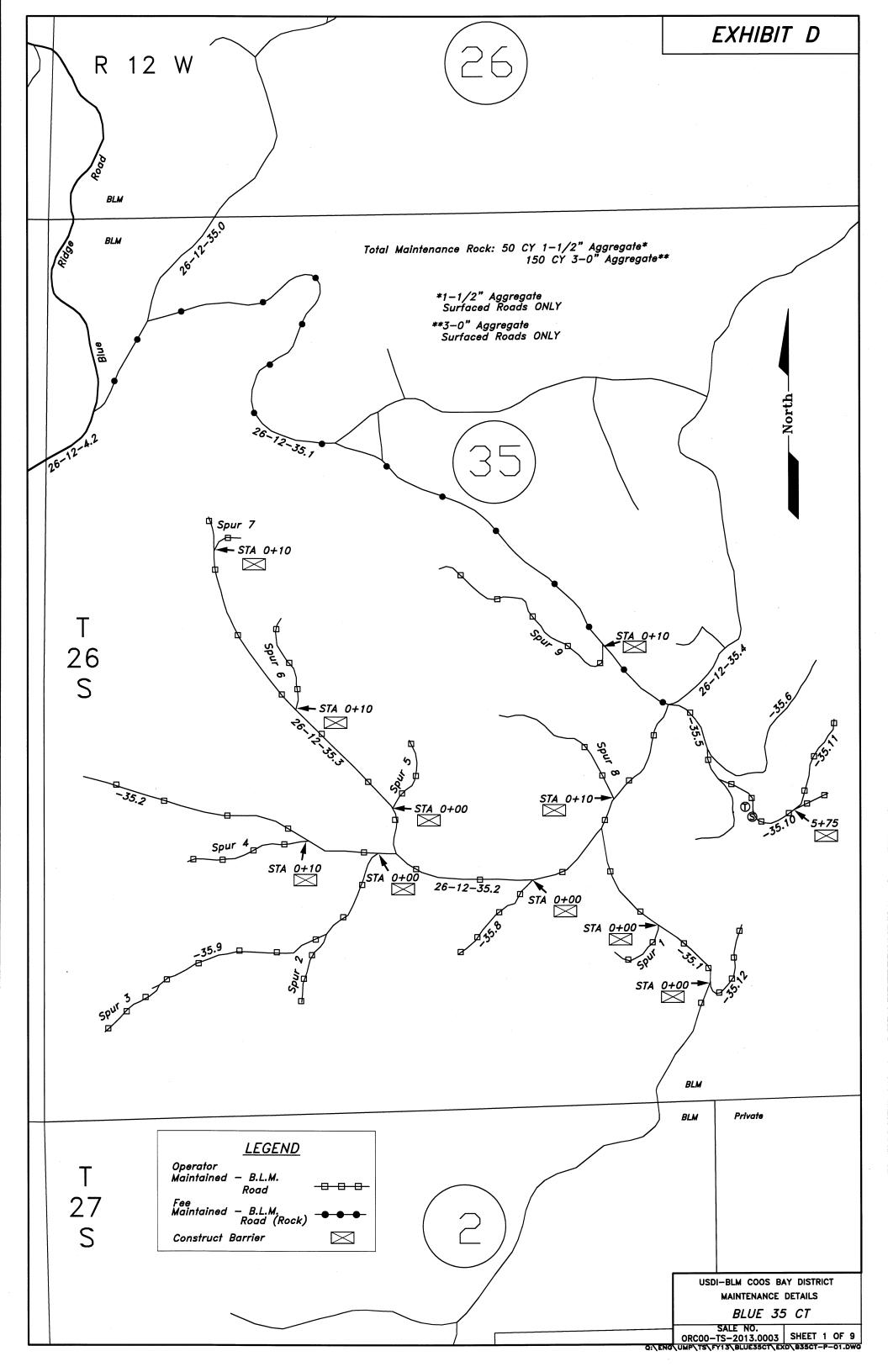
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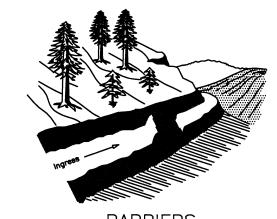
0.1

0.1 0.3

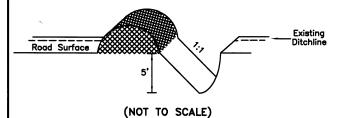
1900 Cattleguards	Totals:	No Quantities
2100 RoadSide Brushing 26-12-35.2 R 26-12-35.3 R 26-12-35.5 R		acres 2.4 1.2 0.4
	Totals:	4.0
2200 Surface Treatment	to	ns L.F.
	Totals:	No Quantities
2300 Engineering		stations
	Totals:	0.00
2400 Minor Concrete	Totals:	No Quantities
2500 Gabions	Totals:	No Quantities
8000 Miscellaneous		

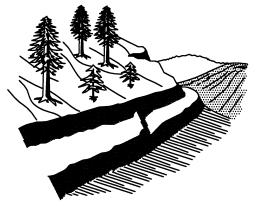
Totals: No Quantities



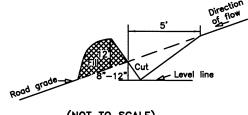


BARRIERS

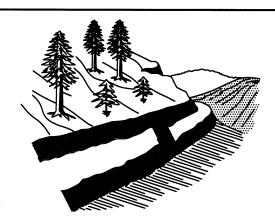




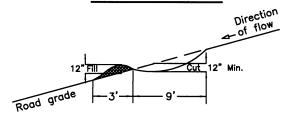
WATER BAR



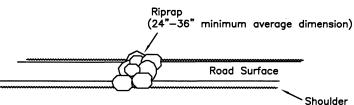
(NOT TO SCALE)



WATER DIP



(NOT TO SCALE)

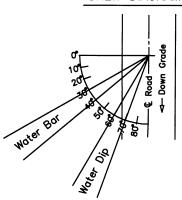


NOTES

- 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.





WATER DIP/BAR SPACING

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

BARRIER AND EROSION CONTROL DETAIL

THINK SAFETY

DESIGNED	J. MENGUITA
REVIEWED.	J. COUNTS
APPROVED-	A. TUROWSKI
DRAWN JRM	SCALE NONE
DATE 12/12	SHEET 2 OF 9

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"EXHIBIT D" ESTIMATE OF QUANTITIES*

		SURF	ACING		OTHER			SOIL STABILIZATION		OTHER	
ROAD NUMBER	TOP **	AGG. MAINT. ROCK **	AGG. MAINT. ROCK **	BASE	RIPRAP BARRIER **	RIPRAP ARMOR **	JAWRUN ROCK **	DRY	HYDRO- MULCH		
SPEC. NO.	1200	1200	1000	1000	1400			1800	1800		
UNITS	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	ACRES	ACRES		
26-12-35.0	0	(C)	B	B	(A)	B	(A)				
26-12-35.1	O	©)	B	B	(A)	B	(A)				
26-12-35.2	©	©)	B	₿	A	B	(A)				
26-12-35.3	©	©)	B	B	A	B	A				
26-12-35.5	©	©)	B	B	A	B	A				
26-12-35.8	©	0	₿	B	10 (A)	B	A				
26-12-35.9	O	0	B	B	10 (A)	B	(A)				
26-12-35.10	0	<u>(C)</u>	B	B	10 (A)	B	A				
26-12-35.11	0	0	В	B	(A)	B	(A)				
26-12-35.12	0	0	В	B	10 (A)	B	(A)				
	0	0	B	B	(A)	B	(A)				
Spur 1	0	0	B	B	10 (A)	B	A				
Spur 2	0	0	В	B	(A)	B	A				
Spur 3	0	0	B	₿	A	B	A	0.1			
Spur 4	0	0	B	B	A	B	A	0.2			
Spur 5	0	0	₿	B	10 (A)	B	A				
Spur 6	0	0	B	B	(A)	B	A	0.2			
Spur 7	0	0	B	₿	(A)	B	A	0.1			
Spur 8	0	©	B	₿	(A)	B	(A)	0.1			
Spur 9	0	©	B	B	(A)	B	(A)	0.4			
	0	©	₿	B	(A)	B	(A)				
	0	©	B	B	(A)	B	(A)				
	0	©	B	₿	(A)	B	A				
	©	©	B	B	A	B	A				
	0	©	B	B	A	B	A				
	©	0	B	B	A	B	(A)				
	©	0	B	B	(A)	B	(A)				
TOTALS	©	50 ©	150 B	₿	60 A	B	(A)	1.1			

SIZE	GRADE
3"	В
4"	В
1 1/2 "	С
34"	A
28"	В
3/4"	S
	3" 4" 1½" 34" 28"

GRADE INDICATED IN CIRCLE



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

ESTIMATE OF QUANTITIES

DESIGNED____ J. MENGUITA REVIEWED J. COUNTS APPROVED A. TUROWSKI

DRAWN JRM SCALE NONE DATE 12/12 SHEET 3 OF 9
DRAWING NO.
Q:\ENG\UMP\TS\FY13\BLUE35CT\EXD\P-03.DWG

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

^{**} ROCK QUANTITES ARE TRUCK MEASUREMENT.

SALE NO. ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT D Sheet 4 of 9 sheets

ROAD MAINTENANCE SPECIFICATIONS

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

<u>Section</u>	
3000	GENERAL
3100	OPERATIONAL MAINTENANCE
3200	SEASONAL MAINTENANCE
3300	FINAL MAINTENANCE
3400	OTHER MAINTENANCE

SALE NO. ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT D Sheet 5 of 9 sheets

GENERAL - 3000

- 3001 The Purchaser shall be required to maintain all roads as shown on the Exhibit D map of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 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.
- 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

- 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.
- The Purchaser shall place 150 yds³ of crushed aggregate, conforming to the requirements in Section 1000 of Exhibit C of this contract, and 50 yds³ of crushed aggregate, conforming to the requirements in Section 1200 of Exhibit C of this contract, on the roadway at locations and in the amounts designated by the Authorized Officer.

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

- 3103 The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 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.

SALE NO. ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT D Sheet 6 of 9 sheets

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.

- 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.
- 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.

- 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.

SALE NO. ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT D Sheet 7 of 9 sheets

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.
- 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.
- 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

- 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.

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.

SALE NO. ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT D Sheet 8 of 9 sheets

OTHER MAINTENANCE - 3400

3401 -	The Purchaser shall repair any damage to road surfaces that was specified under Subsections 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.							
3402 -	The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.							
3420 -	The Purchaser shall perform the following work:							
Road No.	Work							
26-12-35.8	Construct riprap barrier at Sta. 0+00 where in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
	Construct waterbars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
26-12-35.9	Construct riprap barrier at Sta. 0+00 where in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
	Construct waterbars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
26-12-35.10	Construct riprap barrier at Sta. 5+75 where in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
	Construct waterbars from Sta. 5+75 to the end landing in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
26-12-35.11	Construct waterbars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
26-12-35.12	Construct riprap barrier at Sta. 0+00 where in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
	Construct waterbars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
Spur 1	Construct riprap barrier at Sta. 0+00 where in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
	Construct waterbars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							
Spur 2	Construct waterbars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.							

SALE NO. ORC00-TS-2013.0003 BLUE 35 CT EXHIBIT D Sheet 9 of 9 sheets

Spur 3 Scarify full width of subgrade to a depth of 12" and pullback any bermed excavation.

Seed, fertilize, and mulch all scarified and disturbed areas in accordance with Section 1800 of the Exhibit C.

Spur 4 Scarify full width of subgrade to a depth of 12" and pullback any bermed excavation.

Seed, fertilize, and mulch all scarified and disturbed areas in accordance with Section 1800 of the Exhibit C.

Construct earthen barrier at Sta. 0+10 in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

Spur 5 Construct riprap barrier at Sta. 0+00 where in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

Construct waterbars in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

Spur 6 Scarify full width of subgrade to a depth of 12" and pullback any bermed excavation.

Seed, fertilize, and mulch all scarified and disturbed areas in accordance with Section 1800 of the Exhibit C.

Construct earthen barrier at Sta. 0+10 in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

Spur 7 Scarify full width of subgrade to a depth of 12" and pullback any bermed excavation.

Seed, fertilize, and mulch all scarified and disturbed areas in accordance with Section 1800 of the Exhibit C.

Construct earthen barrier at Sta. 0+10 in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

Spur 8 Scarify full width of subgrade to a depth of 12" and pullback any bermed excavation.

Seed, fertilize, and mulch all scarified and disturbed areas in accordance with Section 1800 of the Exhibit C.

Construct earthen barrier at Sta. 0+10 in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

Spur 9 Scarify full width of subgrade to a depth of 12" and pullback any bermed excavation.

Seed, fertilize, and mulch all scarified and disturbed areas in accordance with Section 1800 of the Exhibit C.

Construct earthen barrier at Sta. 0+10 in accordance with Sheet No. 2 of the Exhibit D and as directed by the Authorized Officer.

SALE NO. ORC00- TS- 2013. 0003 SALE NAME: BLUE 35 CT

ROAD NUMBERS	M LES
26- 12- 35. 1	0.5
26-12-35.2	1.0
26-12-35.3	0.5
26-12-35.5	0.2
26-12-35.8	0.1
26-12-35.9	0.3
26-12-35.10	0.2
26-12-35.11	0.1
26-12-35.12	0.1
Spur 1	0.1
Spur 2	0.1
Spur 3	0.1
Spur 4	0.1
Spur 5	0.1
Spur 6	0.1
Spur 7	0.1
Spur 8	0.1
Spur 9	0.3
Tot al	4.0

- SUMMARY-

1.	MOVE IN:	\$1, 232. 00
2.	CULVERTS, SLOUGH, SLUMPS, & MISC	\$796.00
3.	GRADING FOR TIMBER HAUL	\$1,592.00
4.	GRADING FOR AGGREGATE HAUL	\$0.00
5.	MAI NTENANCE ROCK	\$5, 312. 00
6.	OTHER MAI NTENANCE	\$5,705.00

TOTAL MAINTENANCE: \$14,637.00

SALE NO. ORC00- TS- 2013. 0003 SALE NAME: BLUE 35 CT

- APPRAI SAL WORKSHEET-

1.	MOVE- I N:			OVE I NO	COOT / NOV/E	
	EQUI PMENT		IVI	OVE- I NS	COST/ MOVE	
	DUMP TRUCK			1	\$185.00	\$185.00
	GRADER			1		\$356.00
	COMPACTOR			1		\$335.00
	BACKHOE W FE	LOADER		1		\$356.00
					TOTAL =	\$1,232.00
2.	CULVERT MAINT.	, SLOUGH I	REMO!	VAL, SLUMP	REPAI RS, ETC.	
	MAINT. OBLIGA	TI ON		AVE. COS	т	
	4.0		@		/ MILE =	\$796.00
						·
3.	GRADING FOR TI	MBER HAUL				
	UNIT#	GRADI N	IGS	X MILES	ACC. MILES	
			2	4.0		
				OTAL MILES		
	8. 0	MILES ©	D)	\$200.00	/ MILE =	\$1,592.00
4	GRADING FOR A	CODECATE II	A I II .			
4.	GRADING FOR A	GREGATE FI MILES (_		/ M LE =	
		WI LLO	5		/ IVI LL -	
5.	MAINTENANCE RO	OCK: HOOVE	R EXC	CAVATING &	TRUCKING	
	SI ZE	3-0"	Al	PPR FROM		
					M LES	
ROYALTY	150	CU. YDS.	@	\$12.50		\$1,875.00
PROCESSI NG	150	CU. YDS.		\$0.96		\$144.00
SLOW HAUL		CU. YDS.		\$2.18		\$0.00
MED. HAUL		CU. YDS.		\$1.10		\$495.00
FAST HAUL	150	CU. YDS.	@	\$0.49		\$1, 470. 00
					TOTAL =	\$3,984.00
	MAINTENANCE RO	OCK: HOOVE	R EXC	CAVATING &	TRUCKING	
	SI ZE	1.5-0"	A	PPR FROM		
					M LES	
ROYALTY	50	CU. YDS.	@	\$12.50		\$625.00
PROCESSI NO		CU. YDS.		\$0.96		\$48.00
SLOW HAUL		CU. YDS.				\$0.00
MED. HAUL		CU. YDS.		\$1.10	3	\$165.00
FAST HAUL	50	CU. YDS.	@	\$0.49	20. 0	\$490.00
					TOTAL =	\$1,328.00
	SI ZE		ΔΙ	PPR FROM		
	Of ZL		Α.	I I I I I I I I I I I I I I I I I I I	M LES	
ROYALTY	0	CU. YDS.	@	\$0.00		\$0.00
PROCESSI NO		CU. YDS.	@	\$0.00		\$0.00
SLOW HAUL		CU. YDS.	@	\$0.00		\$0.00
MED. HAUL	0	CU. YDS.	@	\$0.00		\$0.00
FAST HAUL	0	CU. YDS.	@	\$0.00		\$0.00
					TOTAL =	\$0.00

SALE NO. 13-01	SALE	NAM	۷E:
ORC00- TS- 2013. 0003	BLUE	35	СТ

6. OTHER MAINTENANCE:

26- 12- 35 <u>8</u>		
Riprap Barrier	\$420.00	
 Waterbars	\$125.00	
		\$545.00
26-12-35_9		
Riprap Barrier	\$420.00	
Waterbars	\$340.00	
		\$760.00
00.40.05.40		
26-12-35_10 Diana Bandian	# 400 00	
Riprap Barrier Waterbars	\$420.00 \$50.00	
wat er bar s	<u>\$50.00</u>	\$470.00
		ψ470.00
26-12-35.11		
Waterbars	\$50.00	
		\$50.00
26-12-35.12		
Riprap Barrier	\$420.00	
Waterbars	\$110.00	
		\$530.00
Cours 4		
Spur 1 Riprap Barrier	\$420.00	
Waterbars	\$80.00	
vat er bar s	\$80.00	\$500.00
		φοσο. σσ
Spur 2		
Wat erbars	\$90.00	
		\$90.00
Spur 3		
Scarification	\$120.00	
Soil Stabilization	\$60.00	*
		\$180.00
Spur 4		
Scarification	\$210.00	
Soil Stabilization	\$100.00	
Earthen Barrier	\$140.00	
		\$450.00

SALE NO. 13-01 ORC00-TS-2013.0003		SALE NAME: BLUE 35 CT	
	Spur 5 Riprap Barrier Waterbars	\$420.00 <u>\$100.00</u>	\$520.00
	Spur 6 Scarification Stabilization Earthen Barrier	\$165.00 \$75.00 \$140.00	\$380.00
	Spur 7 Scarification Stabilization Earthen Barrier	\$55.00 \$25.00 \$140.00	\$220.00
	Spur 8 Scarification Stabilization Earthen Barrier	\$130.00 \$60.00 <u>\$140.00</u>	\$330.00
	Spur 9 Scarification Stabilization Earthen Barrier	\$375.00 \$165.00 <u>\$140.00</u>	\$680.00
		TOTAL	\$5, 705. 00

3377



A. ROAD USE FEES - Payable to Private Company:

COMPANY NAME:	AGREEMENT NUMBER:	ROAD NUMBER	NET MBF	USE FEE per MBF	TOTAL FEES:	
 COMPANIAL.	NOWBER,	HOMBER	WD1	per MIDI	TEES.	
			<u> </u>			/
			TOTAL USE FE	E;	\$0.00 ~	•

B. MAINTENANCE FEES:

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

Surface Type	ROAD NUMBER:	NET MBF	ROAD MILES:	SURFACE REPLACEMENT /MBF/Mile		REGULAR AINTENANC /MBF/Mile	E Subtotal	TOTAL FEE:
n. 1. 1	26 12 25 1	2005	1 015	1 051	****	00.60	******	0500.01
Rock	26-12-35.1	3085	0.15	0.51	\$236,00	\$0.62	\$286.91	\$522.91
Rock	26-12-35.1	3377	0.8	0.51	\$1,377.82	\$0.62	\$1,674.99	\$3,052.81
Rock	26-12-35.0	3377	0.1	0.51	\$172.23	\$0.62	\$209.37	\$381.60
Paved	26-12-4.2	3377	2.4		\$0.00	\$0.65	\$5,268.12	\$5,268.12
					\$0.00		\$0.00	\$0.00
			3.45		\$1,786.05		\$7,439.39	\$9.225.44

(m)





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

Surface	a. Timber Haul:	NET	ROAD	SURFACE REPLACEMENT	DOCUMENT
Туре	ROAD NUMBER:	MBF	MILES:	/MBF/Mile	ROCKWEAF Subtotal
1)pc	ROAD NUMBER	МЫ	WIIDEG.	/MDI/MIC	Suciolai
Rock	26-12-35.3	25	0.1	\$0.51	\$1.28
Dirt	Spur 7	38	0		\$0.00
Rock	26-12-35.3	63	0.2	\$0.51	\$6.43
Dirt	Spur 6	121	0.1		\$0.00
Dirt	Spur 6	172	0		\$0.00
Rock	26-12-35.3	235	0.2	\$0.51	\$23.9
Rock	Spur 5	153	0.1	\$0.51	\$7.80
Rock	26-12-35.3	388	0	\$0.51	\$0.00
Rock	26-12-35.2	127	0.6	\$0.51	\$38.86
Dirt	Spur 4	362	0.1	 	\$0.00
Rock	26-12-35.2	629	0.1	\$0.51	\$32.08
Dirt	Spur 3	178	0.1		\$0.00
Rock	26-12-35.9	426	0.2	\$0.51	\$43.45
Rock	Spur 2	229	0.1	\$0.51	\$11.6
Rock	26-12-35.9	655	0.1	\$0.51	\$33.4
Rock	26-12-35,2	1284	0	\$0.51	\$0.00
Rock	26-12-35.2	1774	0.2	\$0.51	\$180.95
Rock	26-12-35.8	349	0.1	\$0.51	\$17.80
Rock	26-12-35,2	2199	0,1	\$0.51	\$112.1:
Rock	26-12-35.12	153	0.1	\$0.51	\$7.80
Rock	26-12-35.1	153	0.1	\$0.51	\$7.80
Rock	Spur 1	204	0.1	\$0.51	\$10.40
Rock	26-12-35.1	357	0.1	\$0.51	\$18.2
Rock	26-12-35.1	2556	0	\$0.51	\$0.00
Dirt	Spur 8	211	0.1		\$0.00
Rock	26-12-35.1	2767	0.2	\$0.51	\$282.2
Rock	26-12-35.11	127	0.1	\$0.51	\$6.4
Rock	26-12-35.10	191	0.1	\$0.51	\$9.74
Rock	26-12-35.10	318	0.1	\$0.51	\$16.2
Rock	26-12-35.5	318	0.1	\$0.51	\$16.2
Dirt	Spur 9	165	0,1		\$0.00
Dirt	Spur 9	292	0.1	 	\$0.00
				 	
				 	
			. 3.7		\$0.00

 ${\bf 3. \ ROAD\ MAINTENANCE\ AND/OR\ ROCKWEAR\ FEES}\ -\ Payable\ to\ Private\ Company.$

TOTALS	ROCKWEAR FEE /MBF/MILE	ROAD MILES:	NET MBF	ROAD NUMBER	AGREEMENT NUMBER:	COMPANY NAME:	Surface Type
\$0.00			 				
\$0.00	<u> </u>				<u> </u>		

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX. 4.0 MILES OF ROAD. (SEE EXHIBIT D)

	SALE VOLUME:	3377	MBF.	AD USE FEES:	ROCKY FE		MAINTENANCE FEES		
SUMMARY (OF ROAD USE & ROAD M	LAINTENAN	NC TOTAL:	\$/MBF	TOTAL:	\$/MBF	TOTAL:	\$/MBF:	
1. COMPAN	Y-OWNED ROADS:		\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	
2. BLM-MAI	NTAINED ROADS:				\$1,786.05	\$0.53	\$7,439.39	\$2.20	
3. OPERATO	R-MAINTAINED ROADS	:			\$884.96	\$0.26		\$0.00	
			\$0.00	\$0.00	\$2,671.01	\$0.79	\$7,439.39	\$2.20	

Exhibit F Sheet 1 of 1

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

EQUAL OPPORTUNITY IN EMPLOYMENT CERTIFICATION OF NONSEGREGATED FACILITIES

Bid, offer, or contract number or other identification

By the submission of this bid or offer and/or by entering into this contract, the bidder, offeror, lessee, subcontractor, or applicant certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder, offeror, applicant, or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means, but is not limited to, any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin, because of habit, local custom, or otherwise. further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that he will retain such certifications in his files; and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES

A Certification of Nonsegregated Facilities, as required by the May 9, 1967, order (32 F.R. 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

In accordance with 41 CFR 60, as amended May 19, 1967, and Executive Order No. 11246 of September 24, 1965, as amended, this certification is applicable to all bids, offers, contracts and subcontracts as well as agreements with applicants who are themselves performing federally assisted contracts, which may exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity clause of the Order.

INSTRUCTIONS TO BIDDERS

- 1. AUTHORITY Timber 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 located on other lands and other vegetative resources on all 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 are codified in 43 CFR Group 5400.
- 2. QUALIFICATIONS OF BIDDERS A bidder for sale of timber/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/vegetative resource is located.
- 3. INSPECTION OF TIMBER/VEGETATIVE RESOURCES Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.
- 4. DISCLAIMER OF WARRANTY Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/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/vegetative resource to be sold is expressly disclaimed by Government.
- 5. BIDS Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued Timber/Vegetative Resource 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/Vegetative Resource, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is 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 desposit 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/vegetative resource 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) Lump Sum Sales Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.
- (b) Timber Scale Sales Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut and removed prior to expiration of time for cutting and removal as specified in contract.*

- 7. BID DEPOSIT All bidders must make a deposit of not less than the amount specified in the Timber/Vegetative Resource 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*, or any approved guaranteed remittance approved by the Authorized 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/VEGETATIVE RESOURCE SALE CONTRACT To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. PERFORMANCE BOND -

- (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 Authorized Officer.
- (b) If purchaser elects to cut timber 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 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 covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.*
- 11. PAYMENT BOND If purchaser elects to (a) cut and remove timber, or (b) remove timber 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 covered by the bond. Payment bond shall be used to assure payment for timber 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/vegetative resource 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/Vegetative Resource 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/vegetative resource, 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.

^{*}Applies to Timber Only

- 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 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 use; 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 Num-
- ber 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.

Form 5440-9 (July 1993)

(Continued on reverse)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

DEPOSIT AND BID FOR

▼ TIMBER*□ VEGETATIVE RESOURCE (Other Than Timber)

ORCOO-TS-2013.000
Sale Name
Blue 35 CT Sale Notice (dated)
· ·
March 28, 2013 BLM District

Tract Number

FORM APPROVED OMB NO. 1004-0113 Expires: July 31, 1995

LUMP SUM SALE

						<u>oos Bay Distr</u>	ict
Sealed Bid for Sealed Bid S	Sale			⊠ ′	Written Bid for Oral A	auction Sale	
In response to the above dated Sa resource on the tract specified		, the requ	uired depo	sit and bid are h	ereby submitted for the	purchase of design	ated timber/vegetative
Required bid deposited is \$55, cashier's check compared to compare the compared to compared to compare the compared to compare the compared to compare the compared to compare the compared to compare the compared to compared to compared to compared to compared the compared to compa	ertified c	heck	☐ bi	d bond of corp	n the form of		
IT IS AGREED That the bid undersigned fails to execute and days after the contract is receiv per species will be considered.	d return to	he contr	act, togeth ful bidder	ner with any rec	quired performance bo od that no bid for less	nd and any require	ed payment within 30
NOTE: Bida	lers sho				P SUM SALE tions in completing	g the Bid Sched	dule
		BID SUB	MITTED			ORAL	BID MADE
PRODUCT SPECIES	UNIT	VOL	MATED JUME ANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	276.	7>	<	- ==	×	=
Western hemlock	11	4	7 >	< 	=		=
Port-Orford-cedar	11		<u>B</u> >	< 	- #	×	=
Western red cedar	11	22	<u>8</u> >	<	=	×	=
Red alder	**	32	7>	«	-=		=
			 >	< 	=		
			>	<	= ———	x	=
	<u> </u>		>	<	=	×	_
			·>	<			=
			>	<	=		=
				<	· =	×	
			······································	<		×	
A MINE A			·>	·		× ———	
			, ;	<	=	×	=

TOTAL PURCHASE PRICE

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the 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)
☐ Signature, if firm is individually owned	Name of firm (type or print)
☐ Signatures, if firm is a partnership	Business address, include zip code (type or print)
Corporation organized under the state laws of Signature of Authorized Corporate Signing Officer	(To be completed following oral bidding) I HEREBY confirm the above oral bid By (signature)
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" (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description
The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to info	· · · · · · · · · · · · · · · · · · ·

This information is being collected to obtain data relevant to the operation of this timber sale contract.

This information will be used to administer our timber sale program.

Response to this request is required to obtain a benefit.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

ROUTINE USE: 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 timer or vegetative resources.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 1 hr., 15 min. per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-873), 1849 C Street, N.W., Washington, D.C. 20240, and the Office of Management and Budget Paperwork Reduction Project (1004-0013), Washington, D.C. 20503.

Form 5440-9 (July 1993)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

DEPOSIT	AND	BID	FOR

☒ TIMBER* **VEGETATIVE RESOURCE** (Other Than Timber)

FORM APPROVED OMB NO. 1004-0113 Expires: July 31, 1995
Tract Number
ORCOO-TS-2013.0003
Sale Name
Rlue 35 CT
Blue 35 CT Sale Notice (dated)
March 28, 2013
BLM District
Coos Bay District

	LUM	IP SUN	SALE					i District os <u>Bay Dist</u>	ric	t
Sealed Bid for Sealed Bid	Sale				⊠ w	ritten Bid for				
In response to the above dated Saresource on the tract specified		, the req	uired depo	sit and bio	l are her	eby submitted	for the p	urchase of desi	gnated	l timber/vegetative
Required bid deposited is \$55 cashier's check guaranteed remittance appropriate controls.	certified c	heck	☐ bi	id bond o						r
IT IS AGREED That the bid undersigned fails to execute an days after the contract is receiv per species will be considered.	d return the	he contr	act, togeth ful bidder	ner with a	iny requi	ired performal that no bid f	ance bone	d and any requ	iired j	payment within 30
NOTE: Bidd	ders sho					SUM SALE		the Bid Sch	edul	9
		BID SUB	MITTED					ORA	L BID	MADE
PRODUCT SPECIES	UNIT	voi	MATED UME ANTITY	UNIT PI	RICE	TOTAL VAI	LUE	UNIT PRICE		TOTAL VALUE
Douglas-fir	MBF	276	7	<				×	-=-	
Western hemlock	11	4	7×	<		=		×	-=-	
Port-Orford-cedar	"		8 >	< 				×	= -	
Western red cedar	••	223	8	·				×	-=-	
Red alder	**	32	_	ζ				×		
			>	<	 :	=		×	-=-	
				<				×	-=-	
			>	<	 :	=		×	-=-	
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				×		=		×	====	
		TO:	TAL DUR	CHASE D	RICE	i			ı	

by bidder or offeror independently, and was tendered without coll this bid, undersigned agrees to the foregoing provisions, appl or on behalf of, the bidder.	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)										
☐ Signature, if firm is individually owned	Name of firm (type or print)										
☐ Signatures, if firm is a partnership	Business address, include zip code (type or print)										
Corporation organized under the state laws of Signature of Authorized Corporate Signing Officer	(To be completed following oral bidding) I HEREBY confirm the above oral bid By (signature)										
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" (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description										
The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to infe	orm you that:										
This information is being collected to obtain data relevant to the operation of this ti This information will be used to administer our timber sale program. Response to this request is required to obtain a benefit.	mber sale contract.										

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

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Coos Bay Blue 35 CT ORC00-TS-2013-0003

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Timber - Sale - Summary

Legal Description

Forest Type	Township	Range	Section	Subdivision
CBWR	26S	12W	35	SW1/4 NE1/4, S1/2 NW1/4, S1/2
CBWR	27S	12W	2	NW1/4 NW1/4

			_			Cut	ting	y Volume (1	6' MBF)								
Unit	DF	RA	WRC	WH		POC	\Box					Total	Regen	P	artial	R	NO.
	1,007	273	187	,	31		7					2,495			196		
2	1,997	52	35		6		1					471		0	37		
RW	393	2		 	10		\dashv					411		0	0		
Totals	2,767	327	228		47		8				-	3,377		0	233		
-	Logging (Costs per 16	' MBF									Profit &	Risk				
	55 5	oses per re		\$	132.0	n			Total Pro	fit & R	Risk				11	%	
tump to T				\$	37.3				Basic Pro	ofit & I	Risk	11 % + Addit	tional Risk	0 9	%		
Transportat Road Cons				\$	57.7				Back Off	?					0	%	
Road Amor				\$	0.0							Tract Fe	atures				
Road Main				\$	7.3	3			Avg Log		Dougla	ıs-fir : 69 bf		All:	63 bf		
Other Allowances :							Recov	егу	Dougla	s-fir : 95 %		All:	95 %				
Landing pullback \$ 0.67			\$ 0.67					Salvag	ge	Dougla	ıs-fir : 0 %		All:	0 %			
	ı Disposal			\$ 1.39	+-	_			Avg Volu	ıme (16' MB	F per Acre)				14	
	cle Washing			\$ 0.67					Avg Yard	ling Sl	ope						%
-	Total Other Allo	womant t			\$ 2.	73			Avg Yard	ling Di	istance (fe	eet)				273	
L	10tal Other And	wantes .			+				Avg Age							60	0/
									Volume (% %
									Volume (a						%
					1						dan Canada				85	5.55	, •
											tion Statio nent Stati					0.00	
										_	on Station				172		
											sion Statio					5.95	
					İ				Road De	COIII.	sion out	Cru	ise				
					İ				Cruised	Bv			M	organ, Ki	rkland, D	avis	
									Date	_ ,					08/01/2	012	
T () I	-: Ct	14 MDE		s	23	7.12			Type of	Cruise					VP, 3P,10	00%	
Iotal Log	gging Costs per			<u> </u>		(1.12)			County,						Coos,	OR	
Ct #1	: Winchester	Utilizatio	n Centers		89 N	files						Nt . 4 N7					
	: Winchester				12 N				Green (1	16' MB	F)	Net Vo	viume		3.	377	
	distance to Uti				-	58			Salvage						, ,	0	
		Length of	Contract						D	£., n-	alar					0	
Cutting as	nd Removal Tir	ne			1	fonths			Douglas Export V							0	
Dargamal 1	Property Remov	val Time			l N	1onths						75 per 16' MBF)			\$2,53	2 75	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Coos Bay Blue 35 CT ORC00-TS-2013-0003

Stumpage Summary

Stumpage Computation

(16' MBF)

Species	Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Cost	(+) Marginal Log Value	(-) Back Off	Appraised Price	Appraised Value
DF	8,038	2,767	\$ 449.28	\$ 49.42	\$ 237.12			\$ 162.70	\$ 450,190.90
RA	1,499	327	\$ 435.54	\$ 47.91	\$ 237.12			\$ 150.50	\$ 49,213.50
WRC	2,540	228	\$ 523.00	\$ 57.53	\$ 237.12			\$ 228.40	\$ 52,075.20
WH	388	47	\$ 360.09	\$ 39.61	\$ 237.12			\$ 83,40	\$ 3,919.80
POC	88	8	\$ 495.00	\$ 54.45	\$ 237.12			\$ 203.40	\$ 1,627.20
Totals	12,553	3,377							\$ 557,026.60

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Douglas-fir				70.0	27.0	3.0
Western red-cedar		1.0	75.0	24.0		
Port-Orford-cedar				9.0	72.0	19.0
Western Hemlock				55.0	26.0	19.0
Red Alder		50.0	29.0	21.0		

Marginal Log Volume

Species	Grade #7	Grade #8
Douglas-fir		
Western red-cedar		
Port-Orford-cedar		
Western Hemlock		
Red Alder		

Appraised By: Davis, Brian

Date: 02/06/2013

Area Approval By: Kirkland, Travis

Date: 03/19/2013

District Approval By: Morgan, Estella

Date: 03/20/2013

Printed: 3/20/2013 7:42:10AM

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Coos Bay Blue 35 CT ORC00-TS-2013-0003

Prospectus

Appraisal Method: (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	8,038	2,767	2,476	
Red Alder	1,499	327	250	
Western red-cedar	2,540	228	185	
Western Hemlock	388	47	35	
Port-Orford-cedar	88	8	6	
Total	12,553	3,377	2,952	

All Species

Gross	Number	Avg bf Volume	DBH	Gross Merch	Merch	Avg bf Gross
Volume	Trees	Per Tree		Volume	Logs	Merch Log
3,566	12,553	284	15.7	3,516	56,180	63

Merch	Cull	Total	Logs per	Net	Gross	Recovery
Logs	Logs	Logs	Tree	Volume	Volume	
56,180	3,783	59,963	4.8	3,377	3,566	95 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
2,905	8,038	361	16.8	2,870	41,781	69

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
41,781	2,668	44,449	5.5	2,767	2,905	95 %

Cutting Areas

Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres
1		196	* ***	196
2		37		37
RW			5	5
Totals :		233	5	238

Printed: 3/20/2013 7:42:10AM Page 4 of 4