COOS BAY SALE NO. ORC00-TS-2013.0032 PARKVIEW DM

COOS BAY DISTRICT OFFICE MYRTLEWOOD RESOURCE AREA SALE DATE: March 29, 2013

SALE TIME: 10:00 a.m.

SALE NO.: ORC00-TS-2013.0032, PARKVIEW DM

SET-ASIDE SALE

COOS COUNTY: OREGON: O&C: ORAL AUCTION: Bid deposit required: \$43,500.00 All timber designated for cutting on: T. 27 S., R. 10 W., Sec. 4, W ½ SW¼; Sec. 5, S ½ SW ¼, SE ¼; Sec. 8 NE ¼, N ½ NW ¼, SE ¼ NW ¼, NW ¼ SE ¼; Sec. 9, Lot 3, W ½ NE ¼, N ½ NW ¼ , SE ¼ NW ¼ ; Will. Mer.

Approx. No. Merch. Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Vol. Times Appraised Price
17,458	2,998	Douglas-fir	3,328	\$119.20	\$396,697.60
2,015	240	western hemlock	272	\$47.00	\$12,784.00
7,714	509	red alder	674	\$37.30	\$25,140.20
106	3	Port-Orford-cedar	3	\$115.60	\$346.80
27,293	3,750	Total	4,277		\$434,968.60

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.

CRUISE INFORMATION: With respect to merchantable trees of all species in all cruise strata: the average DBHOB is 12.2 inches: the average gross merchantable log contains 44 bd. ft.; the total gross volume is approximately 4,695 thousand bd. ft.; and 94 % recovery is expected. The average DBHOB for Douglas-fir is 12.6 inches; and the average gross merchantable log contains 45 bd. ft. None of the total sale volume is salvage material. The following cruise method was used for volume determination:

<u>VARIABLE PLOT</u>: Timber volumes in Units 1-4 were based on a variable plot cruise. Using a 20 basal area factor (BAF), 300 plots were measured and 311 trees were randomly selected to be sampled. The sample trees have been cruised and their volumes computed using form class tables for estimating board foot volumes of trees in 16-foot logs. The volumes are then expanded to a total sale volume.

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

<u>CUTTING AREA</u>: Four units totaling approximately 232 acres must be partial cut. One acre of right-of-way must be 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 Coquille, travel east on the Coquille-Fairview County Road for 8.3 miles. Turn right onto Lone Pine Lane and travel 3.9 miles to Middle Creek Road No. 27-11-29.0. Turn left and travel approximately 8.3 miles to Vaughn's Creek Road No. 27-10-6.1. Travel on Vaughn's Creek Road for 0.6 miles to the sale area. Refer to Exhibits A and A-1 for unit locations.

<u>ROAD USE & MAINTENANCE</u>: Refer to Exhibit E Summary attached. Operator maintenance required on 5.7 miles of road.

Rockwear and Maintenance Fees Payable to BLM: \$28,620.76

ROAD CONSTRUCTION:

Road Construction estimates include the following:

New Construction:

22.60 stations

Road Renovation:

<u>277.87 stations</u>

Aggregate:

Spot Rock, 1 ½" minus hardrock: <u>60 C.Y. (Truck Measure)</u>

Spot Rock, 3" minus hardrock: <u>30 C.Y.</u> (Truck Measure)

Pipe Bedding,1 ½" minus hardrock: <u>70 C.Y. (In Place Measure)</u> Maintenance Rock, 1 ½" minus hardrock: 50 C.Y. (Truck Measure)

Riprap Barrier: 20 C.Y (Truck Measure)
Riprap Armor: 10 C.Y (Truck Measure)
Jawrun Rock: 10 C.Y (Truck Measure)

Drainage:

24" CPE Single Wall: 20'

18" CPE Double Wall: 35'

24" CPE Double Wall: 198'

36" CMP: 100'

Culvert Markers: 5

Soil Stabilization:

Dry Seed, fertilizer, & mulch: 2.2 acres (Pre Haul)

Dry Seed, fertilizer, & mulch: 2.4 acres (Post Haul)

Roadside Brushing:

261.77 stations

Road Decommissioning:

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Riprap Barriers: 1 (20 C.Y. min.)

Earthen Barriers: 5

Normal Decommissioning: <u>59.96 stations</u> Full Decommissioning: 4.50 stations

<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.

<u>SPECIAL PROVISIONS</u>: This list is not comprehensive. Please review the entire contract.

- 1. All equipment must be washed prior to entry into the contract area to control the spread of noxious weeds.
- 2. All roads are summer haul only (June 1 through October 15).
- 3. A Seasonal Restriction (MM) affects parts of Units 1, 2, & 4. Harvest activities are prohibited April 1 through August 5, and a daily timing restriction restricts harvest activities to the period two hours after sunrise to two hours before sunset August 6 thought September 15.
- 4. A Timing Restriction (MM) affects parts of Units 3 & 4. Harvest activities are restricted to the period between two hours after sunrise to two hours before sunset April 1 thought September 15.
- 5. No trees shall be felled into the Reserve Areas as shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary.
- 6. Damage shall affect less than 5% of reserve trees.
- 7. Lift trees and intermediate support trees may be necessary.
- 8. One-end suspension required in cable and ground-based yarding areas.
- 9. Full suspension required over any stream channels. Trees cut within the Reserve Area adjacent to stream channels for yarding corridors shall be felled toward the channel and left on site.
- 10. Yarding corridors and skid trails shall be placed to avoid cutting reserve trees greater than or equal to 24" DBH. If a reserve tree greater than or equal to 24" DBH is cut for a yarding corridor, the tree shall be left onsite and counted towards the required post-harvest down wood creation requirements.
- 11. A forwarder, log loader, tractor, or rubber tire skidder may be used to yard logs within the ground-based yarding areas. Ground-based equipment shall not operate within fifty feet of any Stream Channel and are restricted to areas with slopes less than 35%.
- 12. Log lengths shall not exceed 41 feet.
- 13. Shape and restore all landings to a natural contour to prevent erosion.
- 14. Seed and fertilize all landings, road cuts and fills, and waste areas.
- 15. Soil stabilization, water bar construction, road decommissioning, and road barrier construction shall be conducted after the completion of harvest activities but no later than October 15th.
- 16. BLM will assume supervisory responsibility for disposal of logging slash.
- 17. Machine and/or hand piling of logging slash are required at all landing areas.
- 18. Roadside hazard reduction machine and/or hand piling is required along BLM Road Nos. 27-10-4.0, 27-10-5.0, & 27-10-6.1.
- 19. After yarding is complete the purchaser shall top 464 conifer trees and fall 232 conifer trees in Units 1 through 4.
- 20. This contract contains provisions (Sec. 42.b(12) and Sec. 42.b(13)) for the sale and removal of

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additional timber necessary to facilitate safe and efficient Purchaser operations. These provisions include:

- a. The designation and sale of additional timber, such as corridor and guyline trees, at contract price, as necessary to facilitate safe and efficient logging. Such trees may be felled and removed when they are painted by the Authorized Officer;
- b. Sale of additional timber volume at current fair market value where the species and/or size of trees are not representative of the forest stand(s) being thinned;
- c. Government reservation of trees previously marked for cutting replacement when the Authorized Officer determines that it is necessary in order to maintain stand densities consistent with objectives set forth in management prescriptions;
- d. The use of unilateral modifications executed by BLM for such additional and replacement timber;
- e. Revocation of the Purchaser's right to cut additional timber if the Authorized Officer determines that trees have been cut and removed that were not previously marked and approved for cutting and removal by the Authorized Officer; and,
- f. It is estimated that approximately ten percent of the sale volume (estimated at 440 MBF) of such additional timber may be removed under the contract, but is not included in the advertised sale volume nor was it included in the timber sale appraisal. This estimate is a net figure reduced by the estimate of the volume of trees previously marked for cutting, which the Authorized Officer may elect to reserve.

Seasonal Restriction Matrix ORC00-TS-2013.0032 PARKVIEW DM Timber Sale Prospectus

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

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			Jan		Feb]	Mar		Apr	N	A ay	J	une	J	July	1	Aug	5	Sept	(Oct		Nov		Dec
Sale Area	Activity	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
	Falling and bucking ²																								
	Cable yarding ²																								
General All Units	Road Construction, Renovation, or Improvement Work ¹																								
	Hauling ¹																								
	Ground based yarding ³											75/ 1/6/													
Units 1, 2, & 3	Seasonally Restricted (MM) area ⁴																								
Units 3 & 4	Timing Restricted (MM) area ⁵																								

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

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

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

⁴ Harvest activities are prohibited April 1 through August 5, and a daily timing restriction restricts harvest activities to the period two hours after sunrise to two hours before sunset August 6 thought September 15.

⁵ A daily timing restriction restricts harvest activities to the period two hours after sunrise to two hours before sunset April 1 thought September 15.

⁶ Wet season haul on rocked roads may be suspended during periods of heavy rain (>1" in 24 hours).

SCHEDULE I

- Sec 41. TIMBER RESERVED FROM CUTTING. The following timber on the Contract Area, shown on Exhibit A, which is attached hereto and made a part hereof, is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of the Government:
 - a. All timber 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 timber marked, by the Government, with orange paint above and below stump height within the Partial Cut Units, shown on the Exhibit A.
 - c. All existing standing dead trees, except those snags that must be felled to permit safe working operation provided that all snags felled must be retained on site;
 - d. All existing downed wood in decay classes 3-5 and all existing downed wood 20 inches or larger in diameter measured on the large end regardless of decay class;
 - e. All Bearing Trees with metal tags that mark property corners.
- Sec 42. SPECIAL PROVISIONS. Purchaser shall comply with the special provisions which are attached hereto and made a part hereof unless otherwise authorized, in writing, by the Authorized Officer:
 - a. Periodic Payment and First Installment Adjustment
- (1) Notwithstanding the provisions of Sec. 3(b), the amount of the first installment may be reduced by the Government when the Contracting Officer requests the Purchaser to interrupt or delay operations for a period expected to last more than 30 days during the operating season. Such interruption or delay must be beyond the Purchaser's control. Operating Season shall be defined, for this purpose, as the time of year in which operations of the type required are normally conducted and not specifically restricted under the contract. The first installment may be reduced to 5% of the installment amount listed in Sec. 3(b), during the delay period. The Purchaser must request such a reduction in writing. When the Contracting Officer notifies the Purchaser that operations may proceed, the purchaser shall have 15 days after such notification to return the first installment to the full value within the allotted time will be considered a material breach of contract. No timber shall be cut or removed from the contract area until the first installment is restored to the full amount.
- (2) Notwithstanding the provisions of Sec. 3(b), adjustments in the due dates for periodic payments may be made by the Government if the Contracting Officer interrupts or delays contract operations for a period expected to last at least 30 days, and the interruption or delay is beyond the 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 pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved.
- (2) Before beginning operations on the contract area for the first time, or after a shutdown of ten or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of ten or more days.
- (3) In the Seasonal Restriction Area (MM), as shown on Exhibit A, falling, yarding, and new road construction operations are prohibited in the period between April 1 and August 5. In addition a daily timing restriction confines activities to the period from two hours after sunrise to two hours before sunset between August 6 and September 15 both days inclusive.
- (4) In the Timing Restriction Area (MM), as shown on Exhibit A, a daily timing restriction confines falling, yarding, and new road construction operations to the period from two hours after sunrise to two hours before sunset between April 1 and September 15 both days inclusive.
- (5) Due to bark slippage, falling or yarding may be restricted by the Authorized Officer within the contract area between March 1 and June 30 of each calendar year, both days inclusive.
- (6) No trees may be felled into the Reserve Area designated on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary to prevent trees from falling into these areas.
- (7) Damage to residual trees shall affect less than 5% of reserve trees. Bark removed to cambium three (3) inches wide or wider, top broken at three (3) inches diameter or greater, root sprung trees, or any root collar damage shall constitute damage. Damage levels will be upon government sample of an affected area. Failure to resolve excess damage to reserve trees may result in suspension of operations and recovery of the value of the damaged timber in accordance with Sec. 13.
 - (8) Trees shall be felled, limbed, topped into lengths not to exceed 41 feet prior to yarding.
- (9) In the Partial Cut Units, yarding (except for road rights-of-way and ground-based areas) shall be done with a skyline cable system according to the following:
 - (a) The skyline cable system shall be capable of being rigged in a multi-span configuration utilizing a carriage capable of yarding 75 feet laterally from the skyline. Skyline roads shall not be spaced closer than 150 feet apart, unless approved by the Authorized Officer.
 - (b) One-end log suspension is required during yarding operations. Intermediate supports and/or lift trees may be required to obtain the required suspension. Full suspension is required when yarding over

Stream Channels shown on the Exhibit A.

- (c) If the placement of a yarding corridor requires the cutting of a tree within the Reserve Area adjacent to a Stream Channel, the tree shall remain on-site and felled toward the direction of the channel in a manner to protect the stream bank from disturbance during yarding. Yarding corridors shall cross stream channels perpendicular where possible to minimize cutting of trees within the Reserve Area. Yarding corridor location within the Reserve Area shall be approved by the Authorized Officer prior to cutting.
- (d) Yarding corridors shall be placed to avoid cutting reserve trees greater than or equal to 24" in diameter where possible. If a reserve tree greater than or equal to 24 inches in diameter at breast height is required to be cut for a yarding corridor, the tree shall be felled and left onsite and counted toward the post-harvest tree felling requirements in Sec 42.b(12).
- (e) Where road locations allow, yarding will be done so that corridors run parallel to each other rather than radiate from a central landing.
- (10) In the Ground-based Area, shown on Exhibit A and within road right-of-ways, cutting and yarding shall be done according to the following:
 - (a) In addition to the requirements set forth in Sec. 26 of this contract, no ground-based logging operations shall be conducted on the contract area between October 15 of one calendar year and June 1 of the following calendar year, both days inclusive.
 - (b) Ground-based operations shall be conducted when soil moisture content is below 25%, as determined by the Authorized Officer; unseasonably dry or wet weather may shorten or extend the operating season. The Purchaser shall be notified in writing when weather conditions extend the operating season. The Purchaser shall cease operations during periods of rain and shall be notified, after a soil-moisture assessment by the Authorized Officer, when operations may resume.
 - (c) 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.
 - (d) The yarding machine must be approved by the Authorized Officer. It must be equipped with a grapple or an extendable and retractable arch and fairlead that is an integral part of the machine that is capable of lifting the leading end of the turn clear of the ground. All logs in the Ground-based Yarding Area shall be yarded with their leading end clear of the ground. A forwarder or tracked log loader may also be used to yard logs.
 - (e) Primary skid trails shall use existing trails wherever possible, be spaced at least 95 feet apart, and be no wider than 12 feet as measured between reserve trees.
 - (f) Primary skid trails shall be placed to avoid cutting reserve trees greater than or equal to 24" in diameter where possible. If a reserve tree greater than or equal to 24 inches in diameter at breast height is required to be cut for a skid trail, the tree shall be felled and left onsite and counted toward the post-harvest tree felling requirements in Sec 42.b(12).
 - (g) Primary skid trails shall be blocked with cull material after completion of harvest where the Authorized Officer determines vehicle access is possible.

- (h) All ground-based equipment shall be restricted to operating on slopes less than 35% and shall not operate within 50 feet of Stream Channels shown on Exhibit A.
- (i) Primary skid trails with a slope greater than 15% and/or are left with more than 100 feet of continuous bare ground shall have water bars installed and/or be covered with slash for erosion control prior to October 15th.
- (11) Sec 42.b(12) shall be the primary method for the identification, cutting, and removal of additional timber required for skyline corridors, yarding trails, and guy-line trees. Sec. 42.b(13) may be used at the discretion of the Authorized Officer. The purchaser shall be notified in writing when Sec. 42.b(13) is authorized for use.
- (12) Before cutting and removing any trees necessary to facilitate logging in the Partial Cut Units the Purchaser shall identify the location of the 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 prework conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following 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 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 road shall be limited to 12 feet.
 - (b) The Purchaser may immediately cut and remove additional timber to clear cable yarding roads; and provide tailhold, tieback, guyline, lift, and intermediate support trees; and clear danger trees when the trees have been marked with blue paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber 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 Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that any tree that exceeds 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 Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and
- (f) The Government may reserve trees previously designated for cutting and removal by applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription. This may include the replacement of trees damaged by storm events, or insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.
- (13) In accordance with the requirements of Sec. 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the contract area which, is obstructing needed cable yarding roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Sec. 8 of the contract: provided, however, that:
 - (a) Seed trees, bearing trees, trees larger than 24 inches in diameter at breast height, and trees located within the Reserve Areas are not included in this authorization;
 - (b) the Purchaser shall identify each tree sold and cut in accordance with this provision by marking the surface of the stump immediately after cutting with a large "X", cut with a chain saw, and by painting the stump with florescent red paint so that the stump can be visually located from a distance of not less than 100 feet;
 - (c) concurrently with falling, paint the end of the butt log of each tree with florescent red paint. When butt logs are yarded, deck separately for inspection by Authorized Officer;
 - (d) the Purchaser conforms to all requirements of Sec. 8 of this contract; provided that (1) the unit prices for additional timber within unit boundaries shall be 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:
 - (e) no timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3.(b) or 3.(d) have been made; and,
 - (f) permission to cut and remove additional timber contained in this provision may be withdrawn by the

Contracting Officer if the Authorized Officer determines that the Purchaser:

- 1. failed to properly mark any stump with the "X" cut and red paint.
- 2. failed to properly mark any butt log with red paint.
- 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. failed to properly segregate any pulled over tree that was yarded to the landing.
- 7. cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
- 8. cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
- 9. cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
- 10. 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.

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

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Sec. 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

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

The Purchaser shall be liable for damages in accordance with Sec. 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

- (14) Prior to attaching any logging equipment to any tree within the Reserve Area, or any reserve tree larger than 24 inches in diameter at breast height, the Purchaser shall obtain written approval from the Authorized Officer, and shall take precautions to protect the trees from damage, as directed in writing by the Authorized Officer.
 - (15) To control the spread of noxious weeds and Port-Orford-cedar root disease, the purchaser shall conduct

all operations involving the transportation and use of equipment and vehicles in strict accordance with the requirements shown on Exhibit F, which is attached hereto and made a part hereof. All road building and logging equipment shall be washed prior to moving in the Contract Area to minimize the spread of noxious weeds.

- (16) After completion of yarding activities, the Purchaser shall top 464 conifer trees and fell 232 conifer trees in Units 1 through 4, as shown on the Exhibit A and as directed by the Authorized Officer, according to the following:
 - (a) Unit 1: top 48 conifer trees, fell 24 conifer trees;
 - (b) Unit 2: top 50 conifer trees, fell 25 conifer trees;
 - (c) Unit 3: top 50conifer trees, fell 30 conifer trees;
 - (d) Unit 4: top 285 conifer trees, fell 153 conifer trees.

The Purchaser shall top the trees above the third live whorl at a minimum height of 40 feet or at 60 feet if no live limbs occur below 60 feet. Trees selected for treatment shall be from the co-dominant tree class as directed by the Authorized Officer. Topped trees shall have a number painted at breast height with fluorescent paint such that they are visible from at least 150 feet, felled trees shall have the butt ends painted. Existing snags or windfalls and reserve trees meeting the desired characteristics including recent broken tops or logging damage may be counted towards the requirements as directed by the Authorized Officer. Number and location of existing or treated trees shall be depicted on a map such that they may be easily verified.

c. Road Construction

- (1) The Purchaser shall construct, improve, and renovate roads in strict accordance with the road plans and specifications, shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) Any required construction, 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 15 of each year. The Authorized Officer may set time limits for the beginning and completion of erosion control and soil stabilization measures and modify seasonal dates to conform to existing weather conditions and changes in the construction schedule. Such work shall be accomplished in accordance with Erosion Control and Soil Stabilization, 1700 and 1800 Series, contained in Exhibit C, which is attached hereto and made a part hereof.
- (4) The Purchaser, prior to construction of landings, shall stake all landing locations in accordance with the requirements set forth in Exhibit C. Concurrently with, or at the termination of logging operations, the Purchaser shall pull back and shape onto the landings all overhanging materials to prevent erosion in accordance with the requirements set forth in Exhibit C.

d. Road Use and Maintenance

- (1) The Purchaser shall be required to secure written approval to use or haul equipment over Government owned or controlled structures when that equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.
- (2) Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices. Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics, at least 15 days prior to proposed move in. Details shall include:
 - (a) Axle weights when fully loaded;
 - (b) Axle spacing;
 - (c) Transverse wheel spacing;
 - (d) Tire size;
 - (e) Outside width of vehicle;
 - (f) Operating speed;
 - (g) Frequency of use; and,
 - (h) Special features (e.g. running tracks, overhang loads, etc.).

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

- (3) The Purchaser is authorized to use the roads shown on Exhibit E, attached hereto and made a part hereof, for the removal of Government timber sold under the terms of this contract and for haul of mineral material required under the terms of this contract; provided, that the Purchaser shall pay the road maintenance fees and rockwear fees totaling \$28,620.76, shown on Exhibit E. Unless the total maintenance and rockwear fees due BLM are paid prior to commencement of operations on the contract area, payments shall be made in installments payable in the same manner as and together with payments required by Sec. 3 of this contract.
- (4) The Purchaser shall perform maintenance and repair of such roads shown on Exhibit D in accordance with the maintenance specifications listed in Exhibit D, attached hereto and made a part hereof.
- (5) At all times during the period of his operations on the contract area, and upon completion of said operations, the Purchaser shall be liable for maintenance and repair of such roads shown on Exhibit D resulting from wear or damage in accordance with the maintenance specifications as shown on Exhibit D.
- (6) With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of any BLM controlled road included in Sec. 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.

- (7) The Authorized Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Sec. 42.c.(1) and 42.d.(3). If the total road maintenance fee does not exceed \$500.00, the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance fee exceeds \$500.00, the Authorized Officer shall establish an installment schedule of payments of the maintenance obligation.
- (8) Hauling on all roads shall be permitted between June 1 and October 15 unless dry conditions extend the hauling season, as directed by the Authorized Officer.
 - 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) Fire Prevention and Hazard Reduction. Primarily for purposes of fire prevention and fire hazard reduction, the Purchaser shall comply with the following provisions:
 - (a) Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, the Purchaser shall prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.
 - (b) Slash shall be disposed of in accordance with the written instructions of the Authorized Officer.
- (3) Logging Residue Reduction, Roadside Hazard Reduction and Biomass Removal. Primarily for purposes of fire prevention the Purchaser shall comply with the following provisions:
 - (a) Notwithstanding the provisions of Sec. 15 of this contract, the Government shall be responsible for disposing of slash created by the Purchaser's operations at all landing sites in the sale area.
 - (b) All logging debris accumulated on the landing shall be piled. As much as possible, piling on landings shall be reduced to the least amount of piles necessary and shall be free of soil and rock. Alternatively, accumulations of logging debris can be scattered throughout the unit by logging equipment at the direction of the Authorized Officer.
 - (c) Unless directed by the Authorized Officer, no landing piles shall be within 15 feet of any reserve tree.

(d) All heavy accumulations of logging slash within 20 feet of BLM Road Nos. 27-10-4.0, 27-10-5.0, & 27-10-6.1 shall be scattered back into the completed harvest unit as directed by the Authorized Officer.

Specifications for Landing and Roadside Hazard Pile Covering

- (a) The Purchaser shall place polyethylene plastic, maximum 4 MIL thick and black in color over the pile to provide a barrier from winter rains. Unless otherwise directed, the size of plastic shall not exceed 100 square feet (10 X 10).
- (b) Larger piles may receive additional polyethylene plastic sheeting in excess of the 100 square feet to adequately cover the pile. Piles within this size limit will be identified by the Authorized Officer before the landing pile covering begins.
- (c) In the piled area being covered, material that extends beyond the general contour of the pile shall be cut off and placed on the pile to prevent tearing of the plastic during seasonal winds.
- (d) Plastic covering shall be placed on top of the pile to ensure the center of the piles remains dry and shall be weighted down with logging debris and shall be tied down with twine on all four corners.
- (e) All piles shall be covered by September 30 of the same year of piling.
- (f) Biomass Utilization Option:
 - 1. If the Purchaser elects to remove biomass generated from harvest activities within the Partial Cut Unit, the Purchaser shall notify the Authorized Officer in order to arrange for on-site inspections of the removal operations and shall provide information on the total tonnage of biomass material removed from the sale area.
 - 2. Upon completion of the biomass removal, the Purchaser shall notify the Authorized Officer to arrange for a final inspection of the landing site.

Specifications Applicable to Landing Pile Burning

- (a) The Purchaser shall begin landing pile burning within 14 hours of notification by the Authorized Officer.
- (b) The Purchaser shall remove and dispose of all plastic exceeding the 100 square foot limit in accordance with Federal, State and municipal laws. Removed polyethylene sheeting shall be not be disposed of in burn piles.
- (c) Manpower and Equipment Requirements for burning of piles are:
- 1. One (1) English-speaking foreman for crew supervision
- 2. Three (3) person burn crew

- 3. Three (3) drip torches and a sufficient amount of fuel to complete all landing pile burning.
- (d) A minimum of 80 % consumption of each pile is required.
- (e) No mop-up is required of the Purchaser.

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project area(s) with the following personal safety equipment: Long sleeve natural fabric shirt (or nomex), full length natural fabric trousers (or nomex), minimum eight-inch top leather boots, hardhat, and leather gloves. All listed equipment shall be in good usable condition.

In case of injury to personnel or damage to equipment furnished as required by this subsection, liability shall be borne by the Purchaser, unless such injury or damage is caused by Government negligence.

Time is of the essence in complying with this provision. In the event the Purchaser fails to provide the men and equipment 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 and appropriate additional overhead expenses.

f. Log Export and Substitution

- (1) All timber sold to the Purchaser under the terms of this contract is restricted from export from the United States in the form of unprocessed timber, and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8-3/4) inches in thickness or less; (6) shakes and shingles.
 - (2) Substitution will be determined under the definition found in 43 CFR 5400.0-5(n).
 - (3) 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 12months 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.

- (4) 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.
- (5) In the event an affiliate of the Purchaser has exported private timber within 12 months prior to purchasing or otherwise acquiring Federal timber sold under this contract, the Purchaser shall, upon request, obtain from the affiliate information in a form specified by the Authorized Officer and furnish the information
- (6) Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer a "Log Scale and Disposition of Timber Removed Report" (Form 5460-15) which shall be executed by the Purchaser. In addition, the Purchaser is required under the terms of this contract to retain for a three-year period from the date of termination of the contract the records of all sales or transfer of logs involving timber from the sale for inspection and use of the Bureau of Land Management.
- (7) Unless otherwise authorized in writing by the Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over ten inches, prior to the removal of timber from the contract area. All loads of eleven (11) logs or more will have a minimum of ten 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.

(8) 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 \$3,207.75. In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of \$3,207.75 which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Eastside Scribner Scaling Rules by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

h. 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:

- (a) 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;
- (b) 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;
- (c) 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;

COOS BAY SALE NO. ORC00-TS-2013.0032 PARKVIEW DM

- (d) 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;
- (e) 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;
- (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (g) 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;
- (h) 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
- (i) 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 (5) percent of the First Installment amount listed in Sec. 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, et seq.). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Sec. 3.b. of the contract within 15 days after the bill for collection is issued, subject to Sec. 3.h. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the

COOS BAY SALE NO. ORC00-TS-2013.0032 PARKVIEW DM

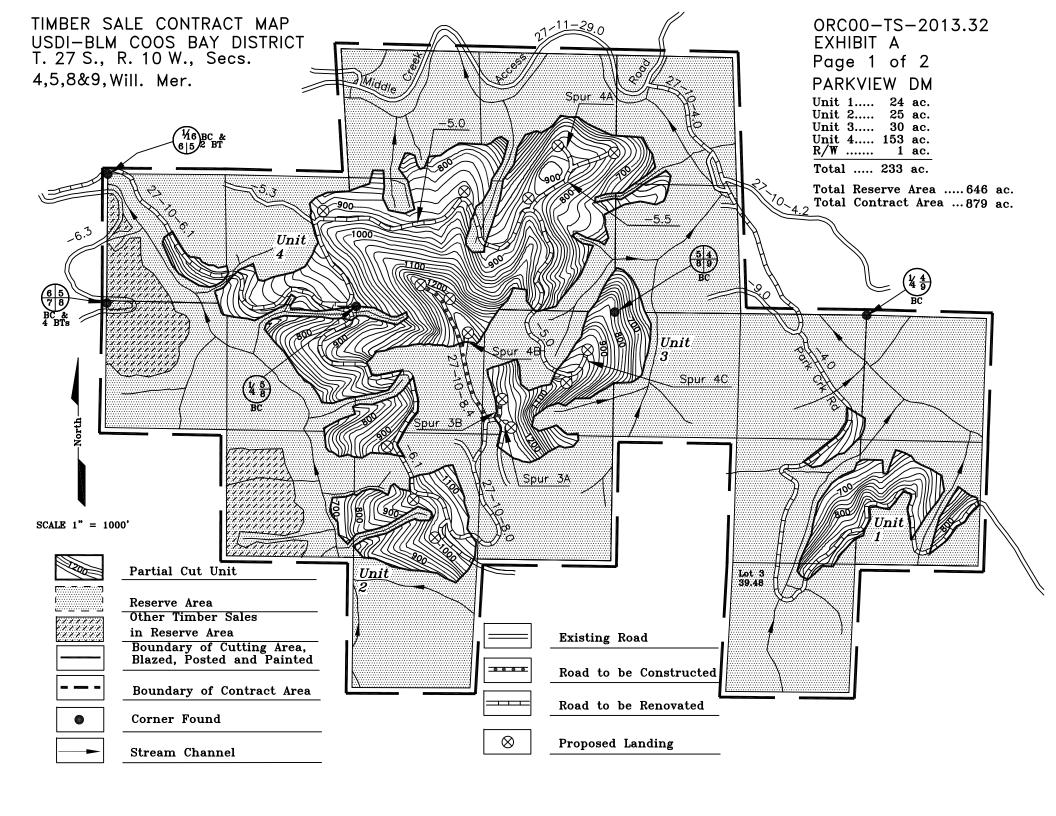
amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

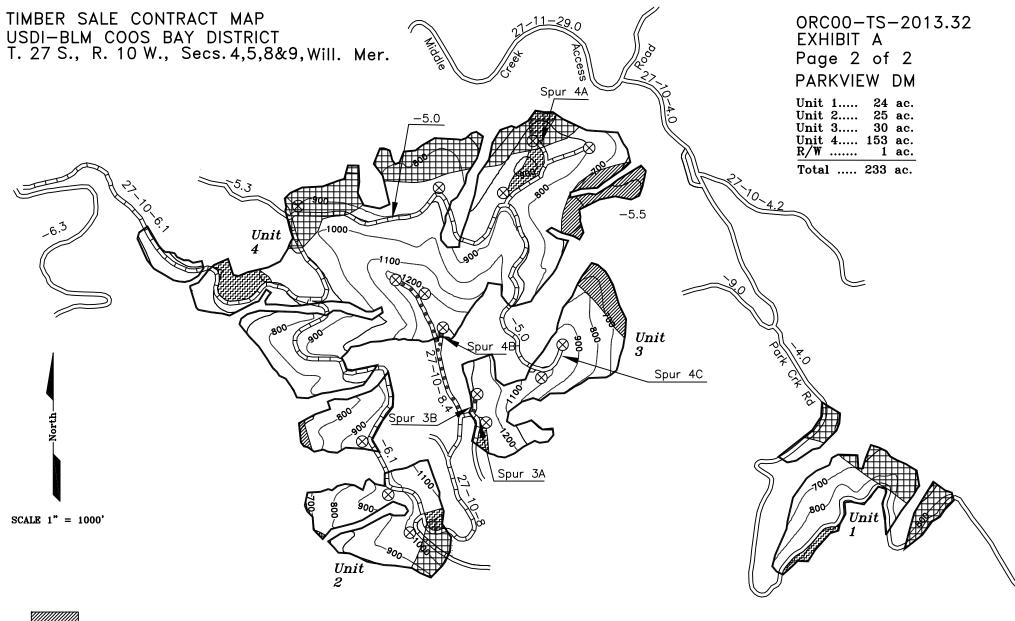
In the event that operating time is lost as a result of the incorporation of additional contract requirements, or delays due to Endangered Species Act consultation with the U.S. Fish and Wildlife Service or U.S. National Marine Fisheries Service, or court-ordered injunctions, the Purchaser agrees that 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 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.





Timing Restrictions (MM)

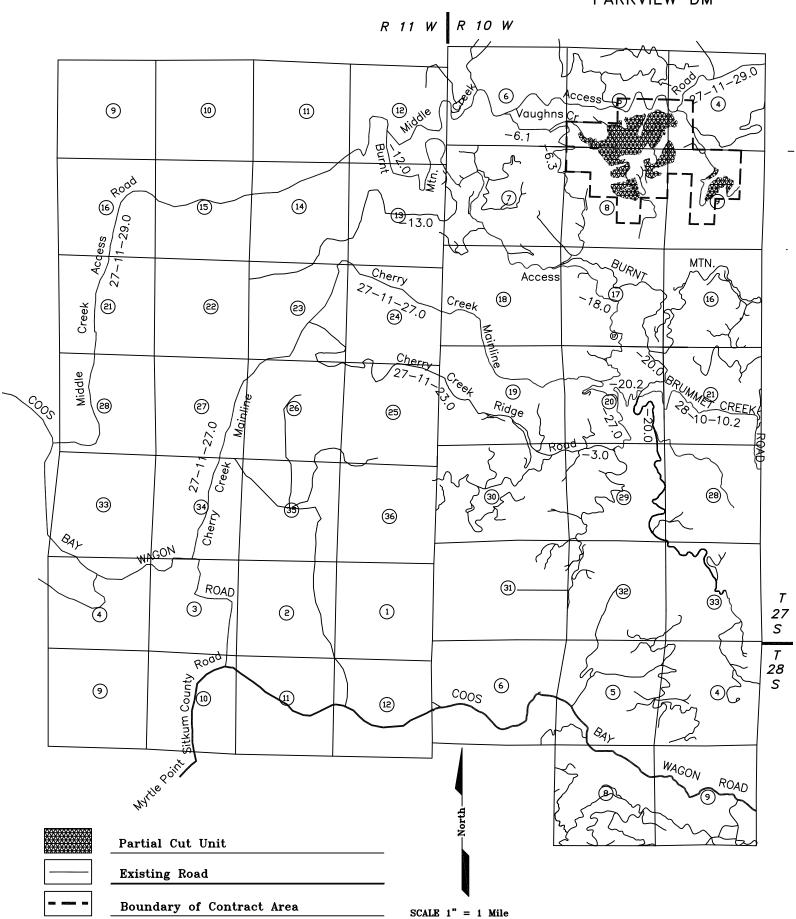
Seasonal Restriction Area (MM)



Ground Base Area (11 acres)

TIMBER SALE CONTRACT MAP USDI-BLM COOS BAY DISTRICT T. 27 S., R. 10 W., Secs. 4,5,8&9, Will. Mer.

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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	3,328		
Red Alder	674		
Western Hemlock	272		
Port-Orford-cedar	3		
Sale Totals	4,277		

Unit Details (16' MB)

Unit 1 24 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	338		
Red Alder	69		
Western Hemlock	27		
Unit Totals	434		

Unit 2 25 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	352		
Red Alder	72		
Western Hemlock	29		
Unit Totals	453		

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Unit 3 30 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	423		
Red Alder	86		
Western Hemlock	34		
Unit Totals	543		

Unit 4 153 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	2,155		
Port-Orford-cedar	3		
Red Alder	439		
Western Hemlock	169		
Unit Totals	2,766		

Unit RW 1 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	60		
Red Alder	8		
Western Hemlock	13		
Unit Totals	81		

EXHIBIT C

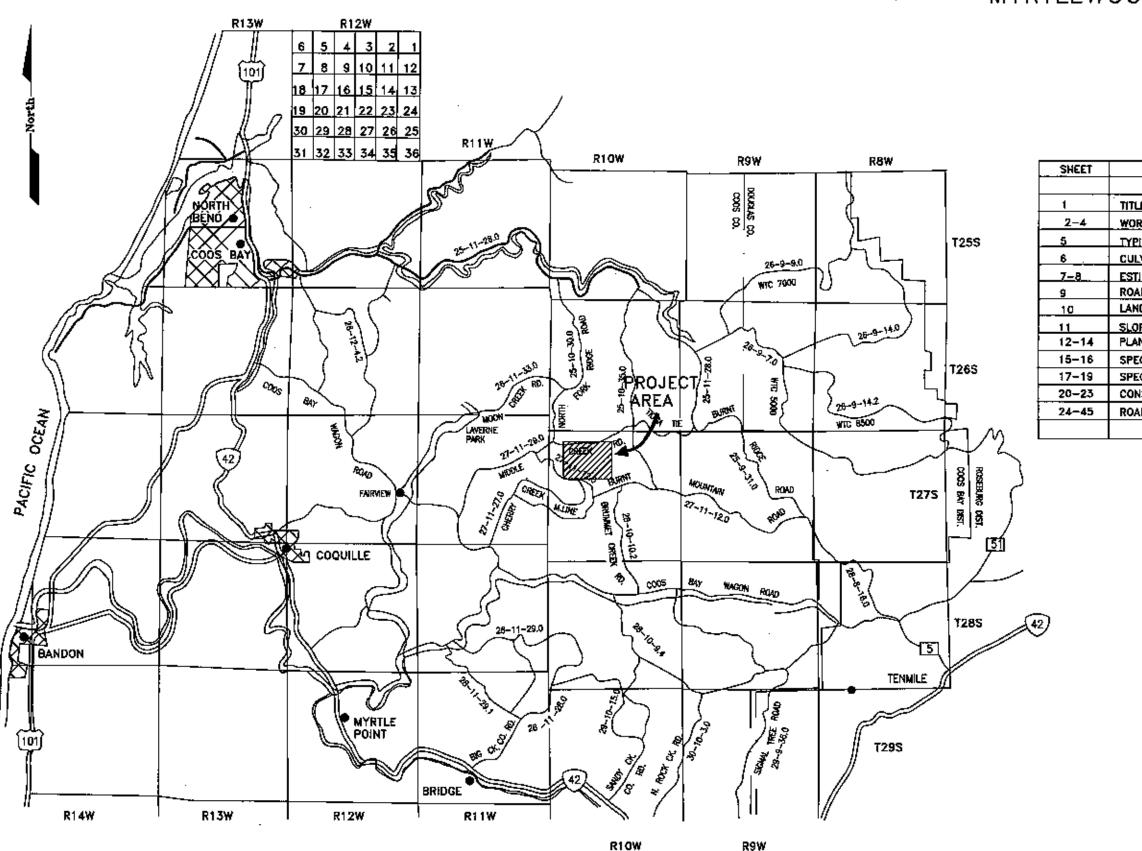
TIMBER SALE NAME

PARKVIEW DM

TIMBER SALE NO.

2013.0032

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



SHEET	CONTENTS
1	TITLE SHEET
2-4	WORK LOCATION MAP
5	TYPICAL CROSS SECTION DETAILS
6 .	CULVERT INSTALLATION DETAILS
7-8	ESTIMATE OF QUANTITIES
g	ROADSIDE BRUSHING DETAIL
10	LANDING DETAIL
11	SLOPE STAKING DETAIL
12-14	PLAN AND PROFILE
15-16	SPECIAL PROVISIONS
17-19	SPECIAL DETAILS
20-23	CONSTRUCTION DETAILS
24-45	ROAD CONSTRUCTION SPECIFICATIONS

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

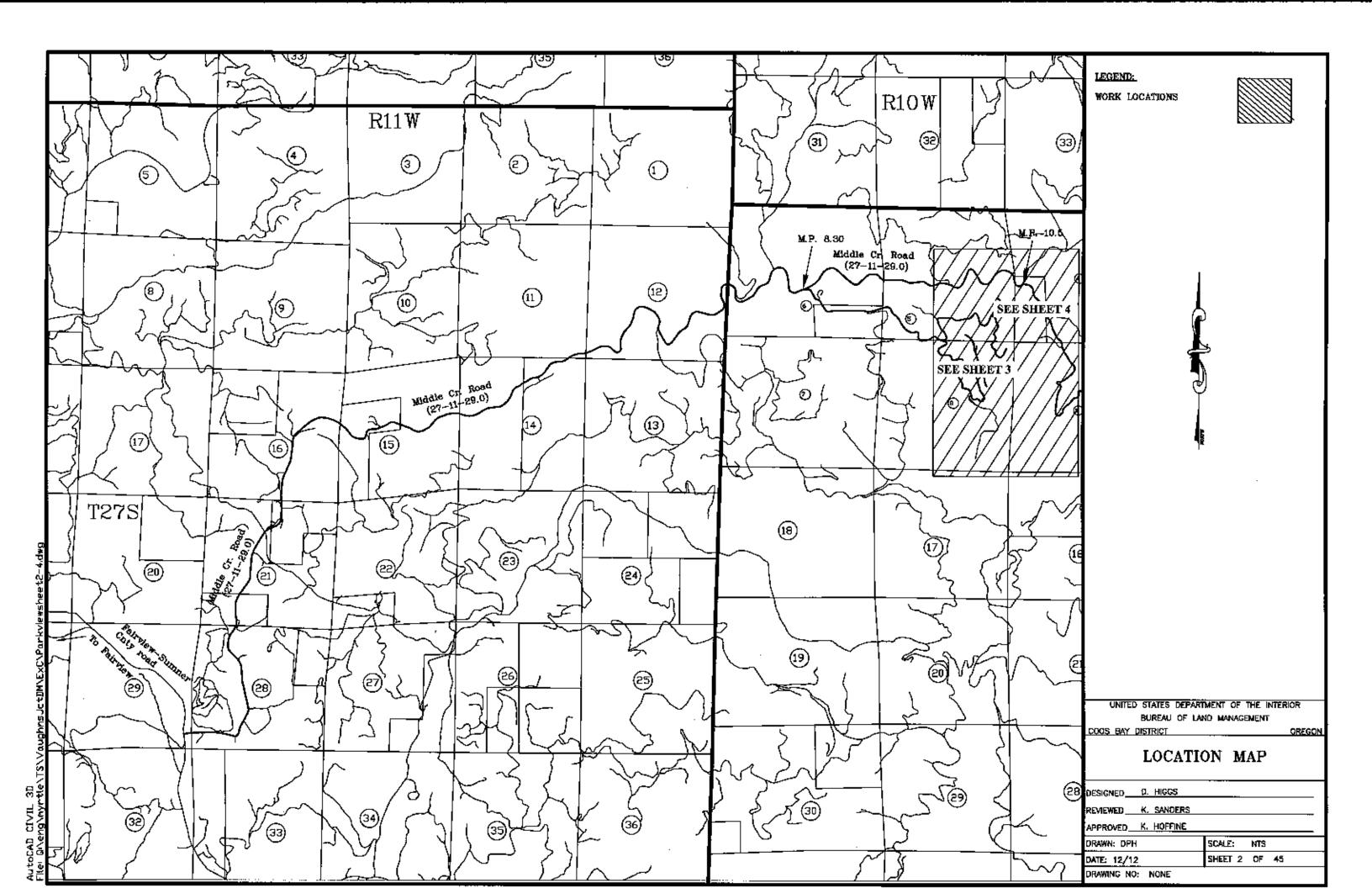
TITLE SHEET

DESIGNED Dennis Higgs REVIEWED Ken Sonders

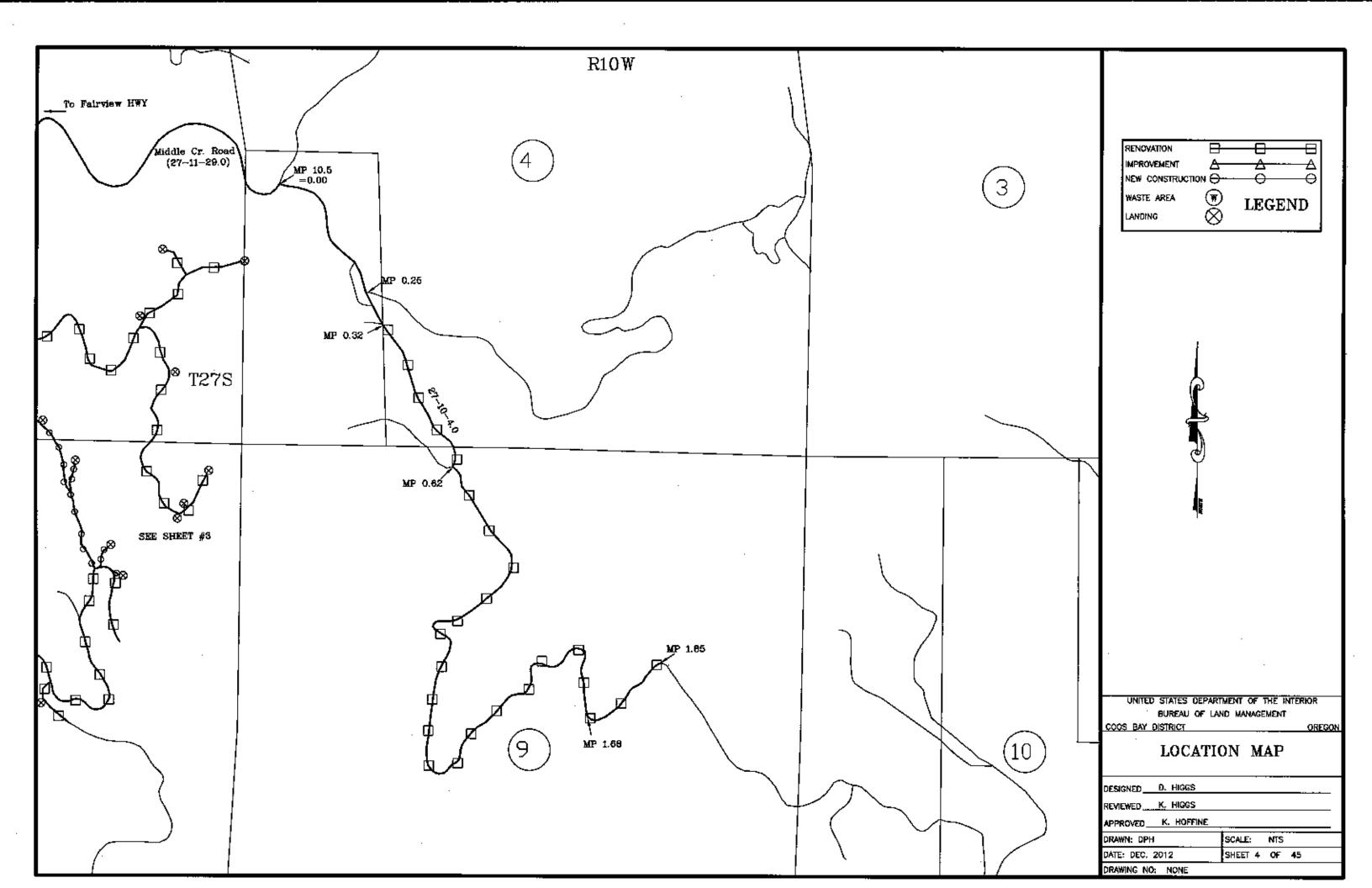
APPROVED K. Hoffine DRAWN: DPH SCALE: NTS SHEET 1 OF 45

OATE: 12/12

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DRAWING NO: NONE



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27-10-4.0	R	1.50	1.85	0.35	1	16'	2'	\coprod		0 1												
27-10-5.0	R	0.00	63+50	1.20	4	16'	2'			0 1												
27-10-5.5	R	0+00	13+10	13.10	1	16'	0'			0 1												3% OUTSLOPE W/ NO DITCH
27-10-6.1	R	0.00	2.18	2.18	4	16	2'			0 1												
27-10-8.0	R	0.00	0.54	0.54	4	16'	2'		1	0 1	0.										1	
27-10-8.4	С	0+00	16+80	16.80	1	14'	ò	10	5		Ш											3% OUTSLOPE W/ NO DITCH
SPUR NO. 3A	C	0+00	0+90	0.90	1	14'	o'	10														3% OUTSLOPE W/ NO DITCH
SPUR NO. 38	С	0+00	2+20	2.20	1	14'	o'	10														3% OUTSLOPE W/ NO DITCH
SPUR NO. 4A	R	0+00	3+00	3.00	1	16'	0'	\perp		10 1	0]											3% OUTSLOPE W/ NO DITCH
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EXTRA SUBGRADE WIDTHS

ADD TO EACH FILL SHOULDER 1 FT. FOR FILLS OF 1-8 FT. AND 2 FT. FOR FILLS OVER 6 FT. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS;

NOTES

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%.

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.
- SURFACING

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

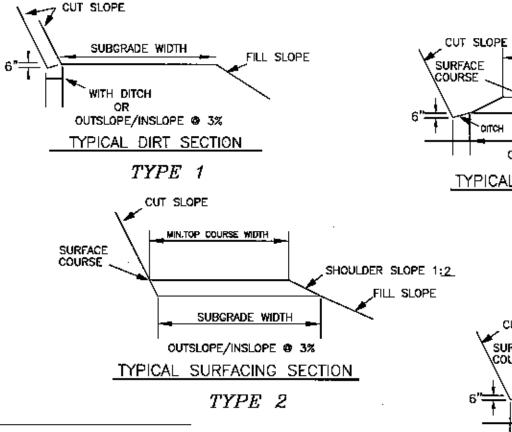
4. OFFCHES

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

<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.

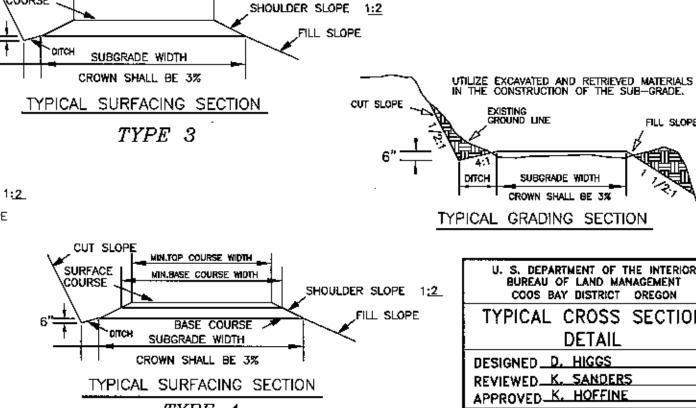
10'-0"



10'-0"

25'MIN.TAPER TURNOUT LENGTH 25'MIN.TAPER

TYPICAL TURNOUT



TYPE 4

MIN.TOP COURSE WIDTH _

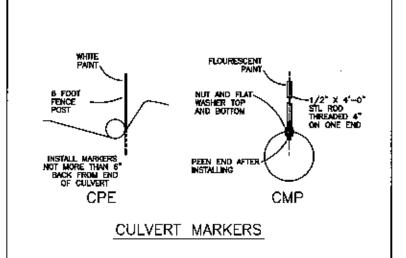
SUBGRADE WIDTH CROWN SHALL BE 3% TYPICAL GRADING SECTION U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON TYPICAL CROSS SECTION DETAIL DESIGNED D. HIGGS REVIEWED K. SANDERS

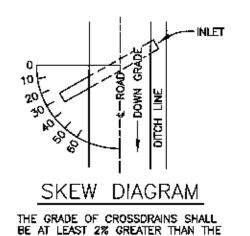
** RENOVATION = R IMPROVEMENT = I

CONSTRUCTION = C

FILL SLOPE

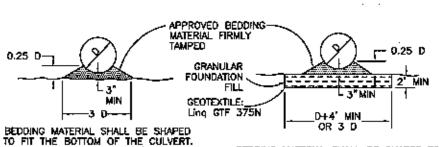
DRAWN DPH SCALE NONE DATE 12/12 SHEET 5 OF 45





GRADE OF THE DITCH.

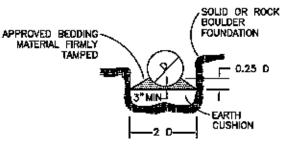
BEDDING OF CULVERTS



BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR COMPACTED EMBANKMENT

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

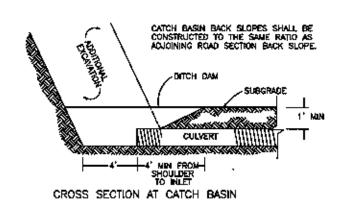
BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION

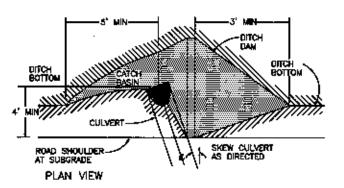


BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL MAIN— TAIN 8" MIN, DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS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

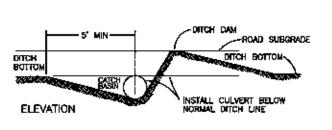
BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION

- TRENCH WIDTH + 2 FT





CATCH BASIN



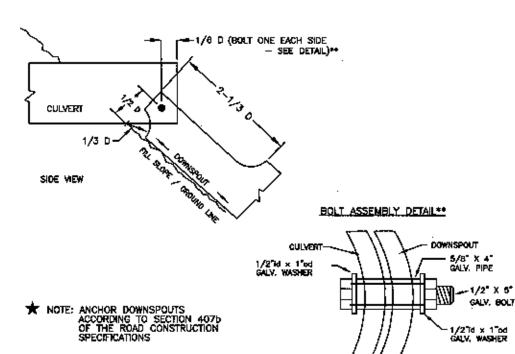
APPROVED GRANULAR MATERIAL FIRMLY CRUSHED AGGREGATE

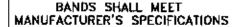
REPLACE EXISTING SURFACE MATERIAL

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

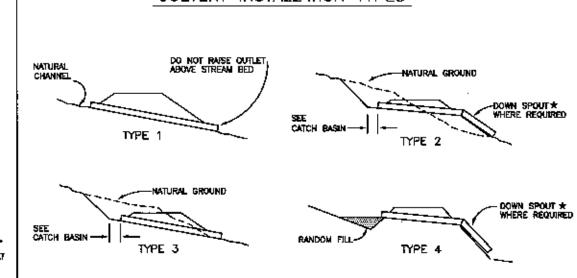
BEDDING OF CULVERTS ON EXISTING SURFACED ROADS

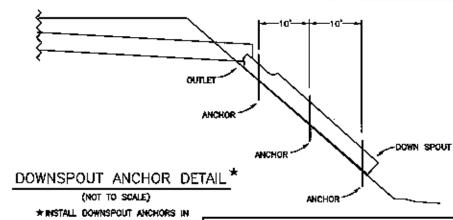
USE "ADJUSTABLE ELBOW" FOR CPE AND CMP DOWNSPOUTS





CULVERT INSTALLATION TYPES





ACCORDANCE WITH SECTION 407b OF THE SPECIFICATIONS.

> ALWAYS THINK SAFETY

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

CULVERT INSTALLATION DETAILS

DESIGNED D. HIGGS REVIEWED K. SANDERS APPROVED K. HOFFINE DRAWN DPH NONE SCALE

DATE 12/12 SHEET 6 OF 45

	z		5						EAR	THWORK	(DESIGNE	D)		CPI	E *1	CMI	P *2		DOWNSE	OUTS *3		
ROAD NUMBER	NEW CONSTRUCTION	RENOVATION	IMPROVEMENT	SLASH TREATMENT	GRUBBING	ROADSIDE BRUSHING	STAKING	COMMON	RIPPABLE ROCK	ROCK CUT	FILL	SHORT HAUL 200-5000'	LONG HAUL 5000'+	18"	24"	12"	36"	FULL 18" CPE	24" CPE	FULL 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	40
UNITS	STA.	STA.	STA.	ACRES	ACRES	STA.	SIDES	C.Y.	C.Y.	C.Y.	YDS.	STA.YD.	YD.MI.	LF.	LF.	LF.	LF.	LF.	LF.	LF.	L.F.	E/
27-10-4.0		80.78				80.78			ļ													<u> </u>
27-10-5.0	<u> </u>	63.50				63.50									48	<u> </u>	100		20		<u> </u>	2
27-10-5.5	}	13.10		1.50	8.0										L		<u> </u>	ļ .			<u> </u>	$oxed{oxed}$
27-10-6.1		84.48		[84.48								.35	150							3
27-10-8.0		28.51				28.51											<u> </u>	<u>_</u>				<u> </u>
27~10~8.4	16.80			0.2	0.1		32		3620		2624	30770										$oxed{oxed}$
SPUR NO. 3A	0.90			0.2	0.1																	
SPUR NO. 38	2.20			0.2	0.1																	
SPUR NO. 4A		3.00		0.3	0.2													<u> </u>	<u> </u>			
SPUR NO. 48	2.70			1.0	0.6														<u> </u>	<u></u>		L
SPUR NO. 4C		4.50				4.50																
													<u>-</u>									
			·-···																			
	 																					_
									<u> </u>													
		<u> </u>																				
				-										•								
TOTAL	22.60	277.87		3.4	1.9	261.77	32	<u> </u>	3620		2624	30770		35	198		100		20		i 	5

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.

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

ESTIMATE OF QUANTITIES

DESIGNE	<u>D D. I</u>	HIGGS		
REVIEWS	ъ К.	SANDERS		
APPROV		HOFFINE		
DRAWN	рен	SCALE	NONE	
DATE	12/12	SHEET	7 QF	45

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ESTIMATE OF QUANTITIES*

Ţ			SURFACING OTHER SEE		DING]					
ROAD NUMBER			SPOT ROCK		BEDDING ROCK	RIPRAP	PITRUN	GEO- TEXTILE	SEED, FERTILIZE AND MULCH		(SEDIMENT CONTROL
		**		**	**	**			1800	1800	DEVICES)
SECTION NO.	1000	1000	1200	1000	1200				DRY	HYDRO	
UNITS	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	S.Y.	ACRES	ACRES	EACH
27-10-4.0		(A)			O			•	0.1		
27-10-5.0	(8)	(A)	C	30 (A)	30 ©	· (8)			0.1		
27-10-5.5	(A)	(A)	©	(A)	O	(A)			0.3		
27-10-6.1	Ø	(A)	60 ©	(A)	40 ©	(A)			0.2		
27-10-8.0	Ø	(A)	O	(A)	O	(A)					
27-10-8.4		(A)	C	A	O	(A)			1.0		
SPUR NO. JA	(A)	(A)		· · · · · · · · · · · · ·	O	(A)			0.1		
SPUR NO. 3B	(A)	(A)	O	(A)	©	(A)			0.1		
SPUR NO. 4A	(8)	(A)	O	(A)	0	(A)			0.1		
SPUR NO. 48	(A)	(A)	Ø	(A)	©	(A)			0.1		
SPUR NO. 4C	Ā	(A)	Ø	A		(A)			0.1		· · · · · · · · · · · · · · · · · · ·
	(<u>a</u>	(A)	0	A		(A)		·			
	(A)	··· (A)	0	(A)		A					
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	(A)	(A)		(A)	O	· · · · (A)					
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	Ø		Ö	Ğ		Ğ					
TOTALS	Œ	(A)	60 ©	30 (70 ©)		2.2		

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

GRADE	SIZE
В	PITRUN
A	3"
8	4"
С	2"
D	
F	
В	4"
C	1 1/2 **
D	1"
A	RIPRAP
\$	34"
	B A B C D F B C D A

GRADE INDICATED IN CIRCLE

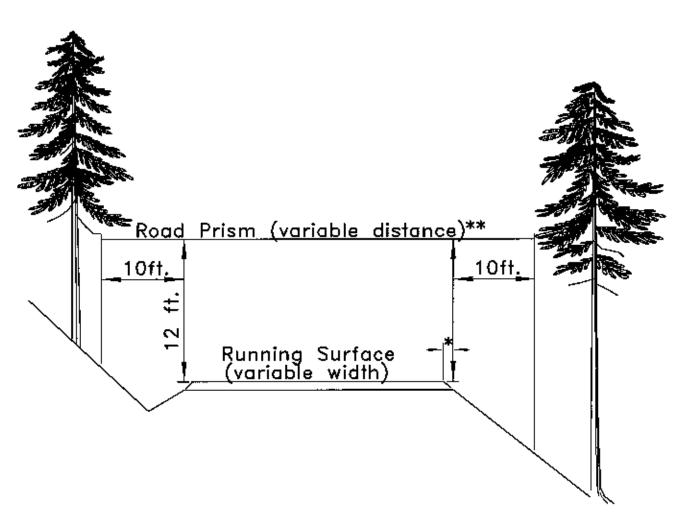


U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

ESTIMATE OF QUANTITIES

DESIGNED D. HI	GGS
REVIEWED K. S	ANDERS
APPROVED K. HI	OFFINE
DRAWN DPH	SCALE NONE
OATE 12/12	SHEET 8 OF 45

^{**} LANDING ROCK, SPOT 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 LAND MANAGEMENT COOS BAY DISTRICT OREGON
ROADSIDE BRUSHING
DETAIL
DESIGNED D. HIGGS

U. S. DEPARTMENT OF THE INTERIOR

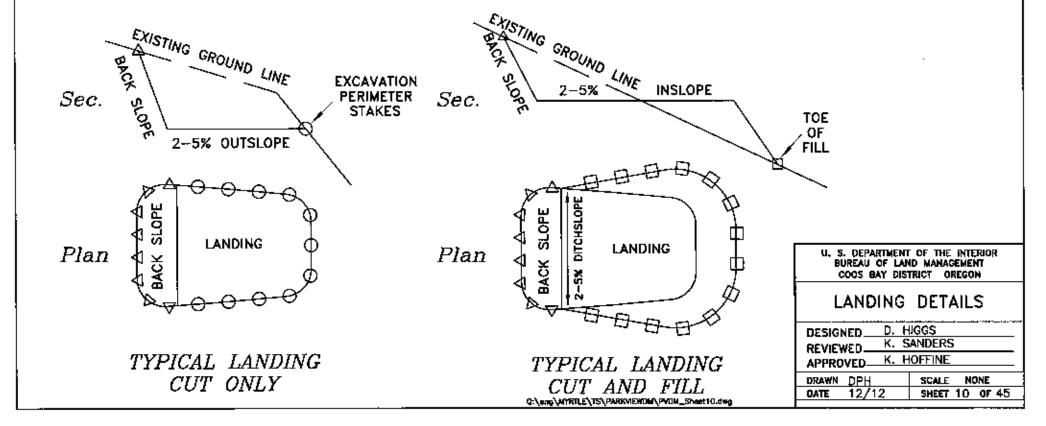
PRE-LOGGING

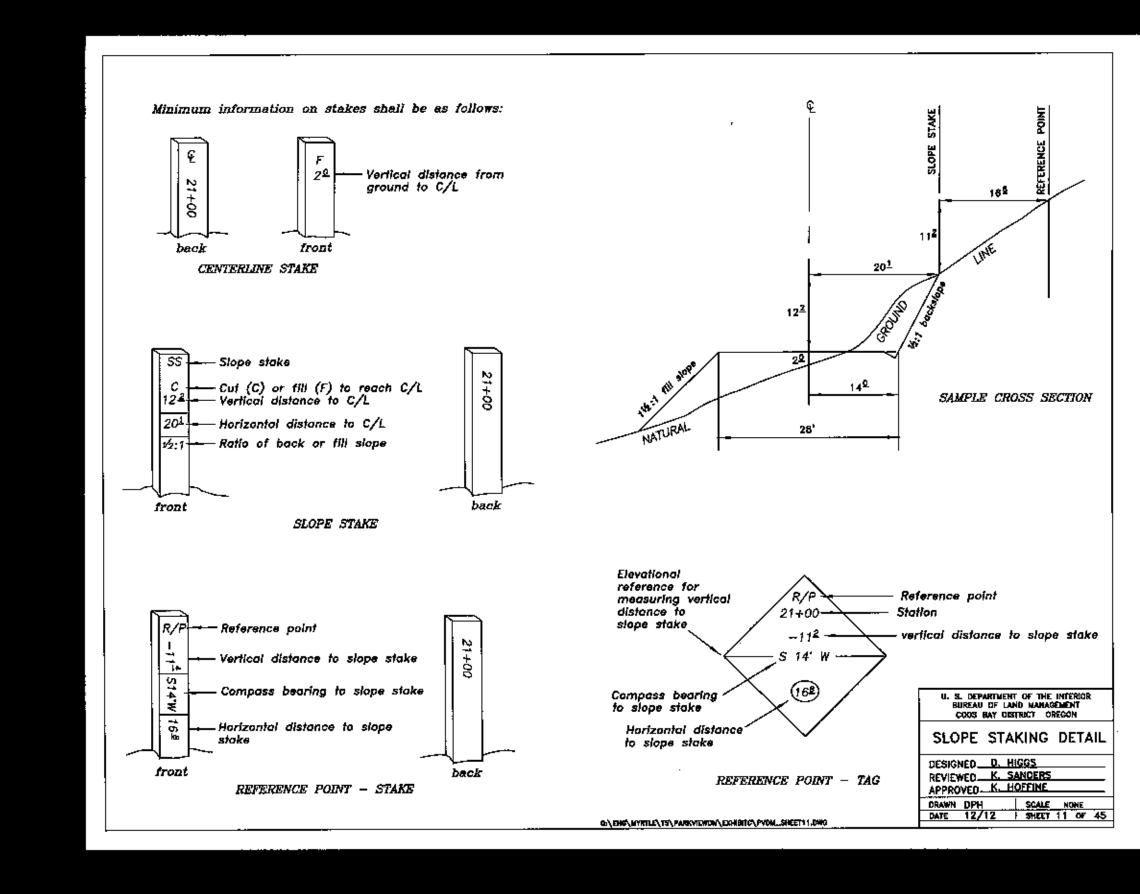
- Purchaser shall stake landing locations a minimum of five (5) days in advance of construction unless otherwise agreed. Locations shall be aproved by the Authorized Officer prior to construction.
 - (a) The top edges of required back slopes shall be flagged in a prominent manner with colored plastic ribbon.
 - (b) 1. For cut only landing the elevation and perimeter of landing shall be delineated by a series of intervisible stakes located along the "daylight" points of desired exco vation.
 - 2. For cut and fill landing the toe of the fill shall be delineated by a series of intervisible stakes.

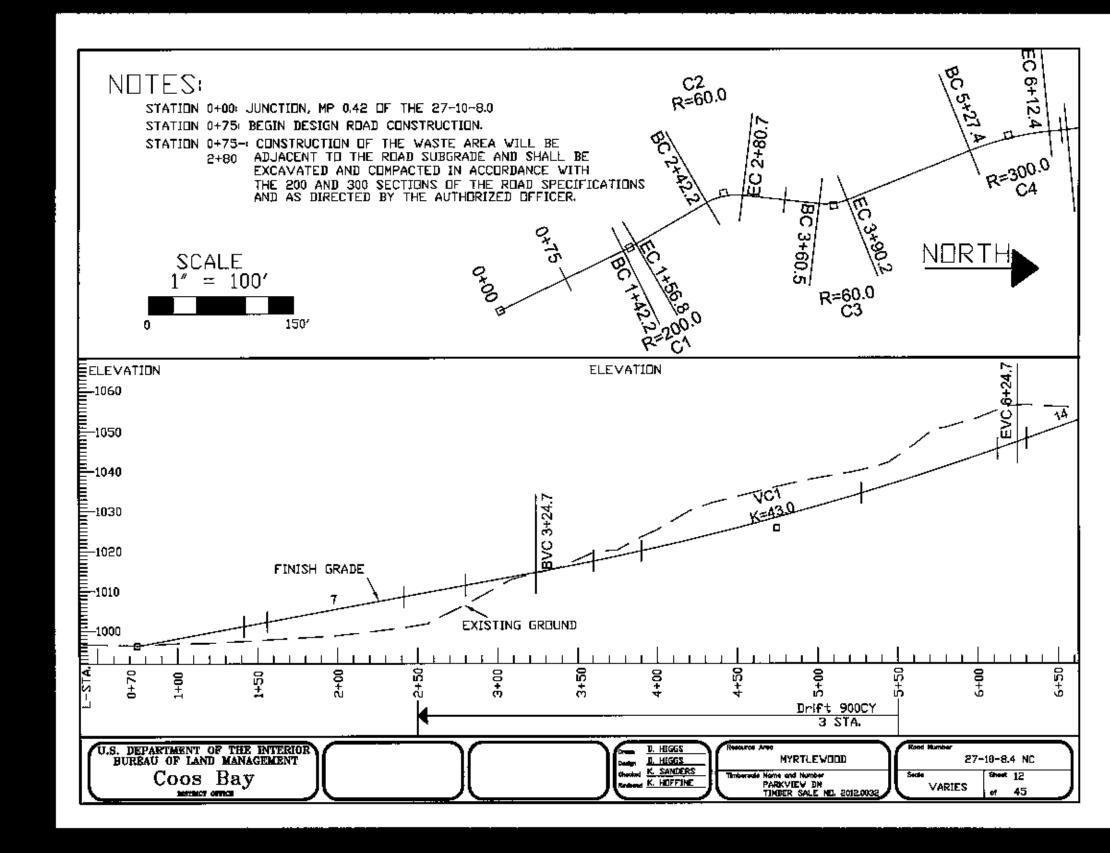
- When required, all excavated material shall be end—hauled to disposal areas specified by the Authorized Officer at the time of approval.
- The 300 Series of Road Specifications opplies for the construction of landings.
 - (a) The fill slope ratio shall not be steeper than 1 1/2:1.
 - (b) The cut slope ratio shall be 1/2:1 for common and 1/4:1 for rock.
- Landing shall be constructed with a 2-5% slope for drainage.

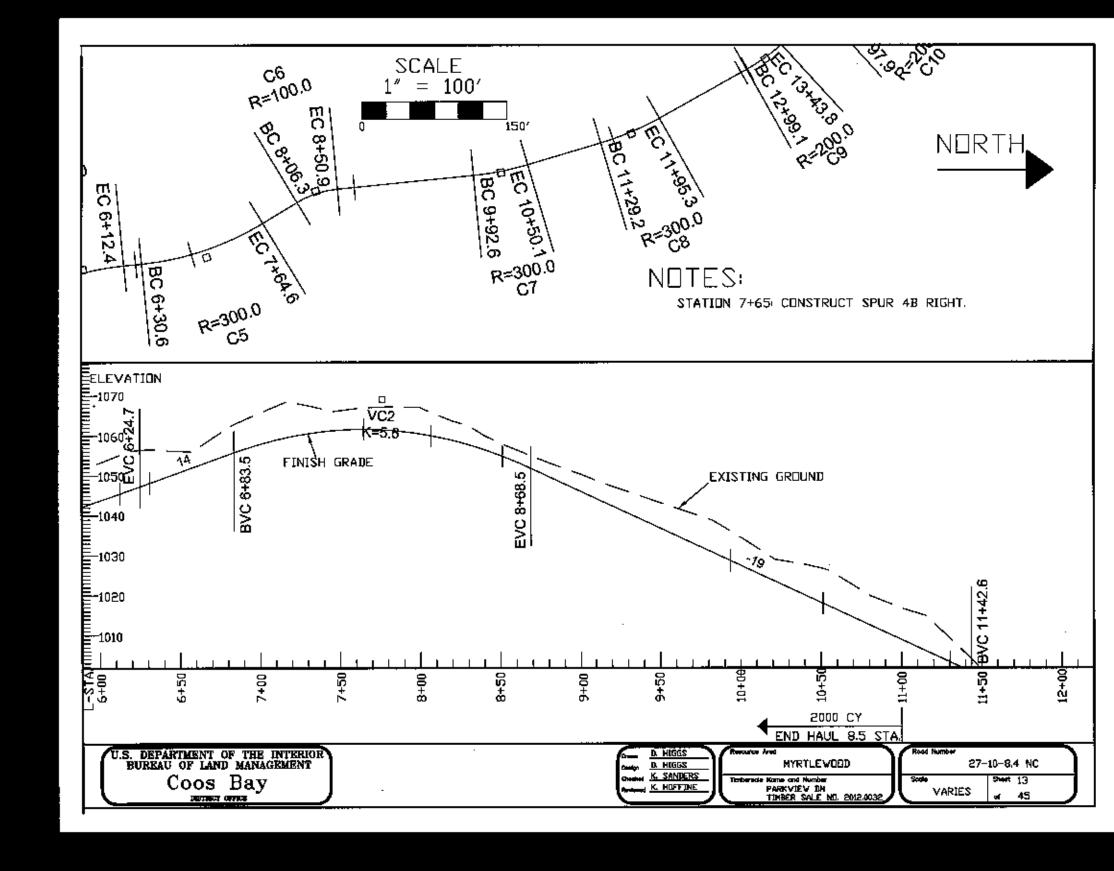
POST-LOGGING

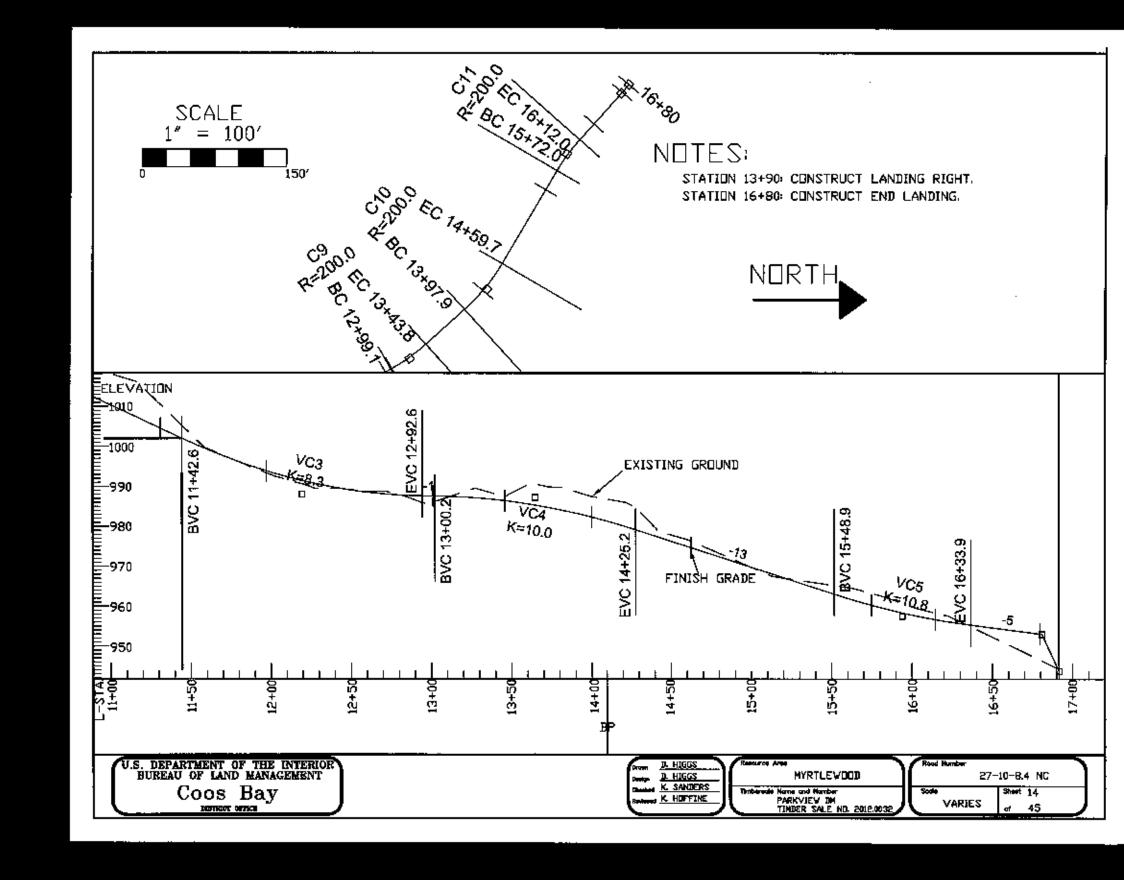
- Purchaser shall remove and dispose of debris from the perimeter of landing in strict accordance with written instructions of the Authorized Officer. Debris is con sidered as unclassified excavation and shall include any woody material such as log ends, cull chunks, stumps, bark, limbs, etc., and any common soil material.
- 2. All natural water courses shall be opened to prevent erosion.
- Landing shall be graded, crowned, and shaped to prevent puddling and permit drainage.











SALE NO. 2013.0032 PARKVIEW DM EXHIBIT C Sheet 15 of 45 sheets

SPECIAL PROVISIONS

Clearing Limits

Maximum clearing widths for new construction are 10' from top of cuts and 5' from toe of fills. Clearing debris must be removed from areas of excavation and embankment.

The limits of disturbance for all landings shall be designated by the Purchaser with stakes or flags and approved by the Authorized Officer, prior to clearing or construction (see Landing Details Sheet). Landings shall not be constructed until the Purchaser has verified landing size, shape, and location with the logger. The entire landing rock quantities listed shall be placed, either on designated landings or on haul routes, at the direction of the Authorized Officer.

Excavated Material/Compaction

Excavated material shall not be wasted as sidecast or perched. All material perched or lost over the side will be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer. All fillslopes shall be compacted equal to 85% of maximum density, either by walking with cat/excavator tracks or by pressing with excavator bucket, to prevent surface erosion and raveling.

Drainage Ditches

Existing drainage ditches that are functioning and have a protective layer of nonwoody vegetation shall not be disturbed.

Minimum Quantities

At a minimum, all estimated aggregate and asphalt quantities shall be applied, either at the specified sites, or at adjacent locations designated by the Authorized Officer.

Purchaser Responsibility

The Purchaser shall avoid damaging any gravel or bituminous surfaced roads, and will be responsible for the repair of any road damaged as a result of his activity. Gravel or bituminous roads shall be left in the same condition that they were prior to logging operations. Care shall be taken during road/landing work operations to avoid damaging adjacent reproduction. Any damaged trees shall be brought to the attention of the timber contract administrator.

Spill Containment

Spill containment kit is required on-site during work. Kit contents shall include absorbent booms (two bales, four 8" x 10" booms/bale), absorbent pads (two bales, one hundred 17" x 19" x $\frac{1}{4}$ " pads/bale), heavy duty garbage bags, gloves (PVC and latex), and goggles.

Equipment Washing

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

Road Decommissioning

Road decommissioning shall be performed as specified in the Exhibit D Special Details.

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.

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT C Sheet 16 of 45 sheets

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.

Native Seed

The Government will furnish native seed mix. The purchaser shall pick up native seed mix at the North Bend, BLM warehouse. The purchaser shall give the Authorized Officer 3 days 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 30 pounds per acre. Sand can be mixed with the native seed to aid broadcast seeding.

Seeding shall be applied according to the dates specified in road specification 1803.

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT C Sheet 17 of 45 sheets

SPECIAL DETAILS

MIDDLE CREEK ROAD 27-11-29.0

<u>Milepost</u>	Remarks		
0.00	Junction with Fairview Highway.		
8.3	Junction, Renovate road No. 27-10-6.1 right.		
10.4	Junction, Renovate road No. 27-10-4.0 right.		
	RENOVATION OF ROAD NO. 27-10-4.0 Milepost 0.00 to 1.85		
<u>Milepost</u>	Remarks		
0.00	Junction, with Middle Creek Road.		
0.21	Park Creek Recreation site right.		
0.25	Junction, private road left.		
0.31	Bridge.		
0.32	Begin brushing, slough and slide removal, soil stabilization, compaction, and grading and shaping in accordance with Sections 500, 1800 and 2100 of the Road Specifications, Typical Cross Section Sheet No. 5, and Roadside Brushing Detail Sheet No. 9.		
0.62	Junction, road right.		
1.68	Draw, remove approximately 40CY of bermed material and place on shoulder at MP 1.70 outslope so road grade will drain.		
1.85	Unit boundary End Renovation.		
RENOVATION OF ROAD NO. 27-10-5.0 Milepost 0.00 to Station 63+50			
Milepost/ Station	Remarks		
0.00	Junction with road No. 27-10-6.1 at MP 1.33. Begin brushing, slough and slide removal, culvert replacement, rocking, compaction, and grading and shaping in accordance with Sections 400, 500, 1000, 1200, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 5, and Roadside Brushing Detail Sheet No. 9.		
0.23	Junction, road left.		
0.25	Construct landing left.		
0.57	Construct landing left.		

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT C Sheet 18 of 45 sheets

0.65	Remove Existing culvert and Install 36" x 100' CMP with Marker. 20 CY of 1 $\frac{1}{2}$ -0" crushed aggregate allocated for bedding and 30 CY of 3"-0 for resurfacing.		
0.74	Existing culvert, remove and re-grade road.		
0.80	Junction, renovate road No. 27-10-5.5 left.		
0.90	Construct landing left.		
60+50	Remove existing culvert and install government furnished 24" X 48' CPE with 20" of Fullround and marker located at MP 1.0. 10 CY of 1 ½-0" crushed aggregate allocated for bedding.		
63+50	Construct Landing right. Junction renovate Spur No. 4C left. End Renovation.		
	RENOVATION OF ROAD NO. 27-10-5.5 Station 0+00 to 13+10		
Station	Remarks		
0+00	Junction, with road No. 27-10-5.0 at M.P. 0.80. Begin slough and slide removal, compaction, and grading and shaping in accordance with Sections 500 and 1800 of the Road Specifications and Typical Cross Section Sheet No. 5.		
1+45	Construct Landing left.		
6+85	Junction, Renovate spur No. 4A Left.		
12+10	Construct Truck turnaround left.		
13+10	Construct End Landing. End renovation.		
	RENOVATION OF ROAD NO. 27-10-6.1 Milepost 0.00 to 2.18		
Milepost	Remarks		
0.00	Junction with Middle Creek Road at M.P. 8.30.		
0.04	Bridge.		

0.58	Junction, Begin Brushing, slough and slide removal, compaction, culvert replacement, and grading and shaping in accordance with Sections 400, 500, and 2100 of the Road Specifications and Typical Cross Section Sheet No. 5 and Roadside Brushing Detail Sheet No. 9.
1.07	Remove existing culvert and install 24° X 70' CPE with marker. 15 CY of 1 ½-0" crushed aggregate allocated for bedding and 20 CY for resurfacing.
1.09	Remove existing culvert and install 24" X 80' CPE with marker. 15 CY of 1 $\frac{1}{2}$ -0" crushed aggregate allocated for bedding and 20 for resurfacing.

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT C Sheet 19 of 45 sheets

1.33	Junction, Renovate road No. 27-10-5.0 left. Remove existing culvert and install 18" X 35' CPE with marker. 10 CY of 1 ½-0" crushed aggregate allocated for bedding and 20 CY for resurfacing.
1.85	Construct landing right.
1.95	Construct landing right.
2.03	Junction, renovate 27-10-8.0 left.
2.07	Construct landing right.
2.18	End Renovation.
	RENOVATION OF ROAD NO. 27-10-8.0 Milepost 0.00 to 0.54
<u>Milepost</u>	Remarks
0.00	Junction, with 27-10-6.1 at M.P. 2.03. Begin brushing, slough and slide removal, compaction, and grading and shaping in accordance with Sections 500, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 5, and Roadside Brushing Detail Sheet No. 9.
0.32	Junction, road left.
0.42	Junction, Construct Road No. 27-10-8.4 left.
0.44	Junction, Construct Spur No. 3B left.
0.47	Junction, Construct Spur No. 3A left.
0.54	End Renovation.
	RENOVATION OF SPUR NO 4A Station 0+00 to 3+00
<u>Station</u>	Remarks
0+00	Junction, with 27-10-5.5 at Sta. 6+85. Begin clearing and grubbing, slough and slide removal, compaction, and grading and shaping in accordance with Sections 500, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 5, and Roadside Brushing Detail Sheet No. 9.
3+00	Construct End landing. End renovation

SALE NO. 2013.0032
PARKVIEW DM
EXHIBIT C
Sheet 20 of 45 sheets

RENOVATION OF SPUR NO 4C Station 0+00 to 4+50

<u>Station</u>	Remarks
0+00	Junction, with 27-10-5.0 at Sta. 63+50. Begin brushing, slough and slide removal, compaction, and grading and shaping in accordance with Sections 500, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 5, and Roadside Brushing Detail Sheet No. 9.
0+25	Construct landing left.
4+50	Construct End landing. End renovation

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT C Sheet 21 of 45 sheets

CONSTRUCTION DETAIL SHEET SPUR 3A CONTROL POINT

GENERAL

Purchaser shall construct Spur No. 3A from Sta. 0+00 to Sta. 0+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. 5.

TURNOUTS

NONE.

SUBGRADE

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

DRAINAGE FEATURES

Outslope&/or inslope at 3% 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 10%.

TRUCK TURNAROUND

Utilize junction as Truck Turnaround.

LANDINGS

Construct end landing at Sta. 0+90. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

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

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT C Sheet 22 of 45 sheets

CONSTRUCTION DETAIL SHEET SPUR 3B CONTROL POINT

GENERAL

Purchaser shall construct Spur No. 3B from Sta. 0+00 to Sta. 2+20 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Sheet No. 5.

TURNOUTS

NONE.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 3% 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 10%.

TRUCK TURNAROUND

Utilize junction as Truck Turnaround.

LANDINGS

Construct end landing at Sta. 2+20. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

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

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CONSTRUCTION DETAIL SHEET SPUR 4B CONTROL POINT

GENERAL

Purchaser shall construct Spur No. 4B from Sta. 0+00 to Sta. 2+70 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Sheet No. 5.

TURNOUTS

NONE.

SUBGRADE

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

DRAINAGE FEATURES

Outslope &/or inslope at 3% 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% favorable.

TRUCK TURNAROUND

Utilize junction as Truck Turnaround.

LANDINGS

Construct end landing at Sta. 2+70. Grade of landing shall not exceed 5%.

SOIL STABILIZATION

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

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ROAD CONSTRUCTION SPECIFICATIONS

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

GENERAL
CLEARING AND GRUBBING
EXCAVATION AND EMBANKMENT
PIPE CULVERTS
RENOVATION AND IMPROVEMENT OF EXISTING ROADS
WATERING
AGGREGATE BASE COURSE (CRUSHED ROCK)
AGGREGATE SURFACE COURSE (CRUSHED RÓCK)
SLOPE PROTECTION `
EROSION CONTROL
SOIL STABILIZATION
ROADSIDE BRUSHING
SLOPE STAKING

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GENERAL - 100

101 - Pre-work Conference(s):

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

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

102 - Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

Grab Tensile Strength - A modified tensile strength of a geotextile material. The strength of a

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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.

Nonwoven Geotextile Material - 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.

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

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

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

Road Centerline - Longitudinal center of roadbed.

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

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

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

and/or a compound used to mat together mulching material.

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

<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.

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

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

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

<u>Unaged Cloth</u> - Cloth in condition received from the manufacturer or distributor.

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

102a - Tests Used in These Specifications:

AASHTO T 11	Quantity of rock finer than No. 200 sieve.		
AASHTO T 27	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.		
AASHTO T 89	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.		
AASHTO T 90	Plastic limits and plasticity index of soil. a. Plastic limit - lowest water content at which the soil remains plastic. b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.		
AASHTO T 96	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.		
AASHTO T 99	Relationship between soil moisture and maximum density of soil. Method A - 4" mold, soil passing a No. 4 Sieve. 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 19.00 mm (3/4 inches) sieve. 56 blows/layer & 5 layers.		
<u>AASHTO T 176</u>	Shows relative portions of fine dust or clay-like materials in soil or graded aggregate.		
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.		

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

splitter, quartering, or miniature stockpile sampling.

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

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

103 - Compaction equipment shall meet the following requirements:

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

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

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

CLEARING AND GRUBBING - 200

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

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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.
- 204c On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- On areas to be occupied by embankments having heights greater than 4 feet, no stump or
 portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after
 grubbing is completed.
- 204e Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210.
- Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- Excavated material shall not be wasted as sidecast or perched. All material perched or sidecast as waste shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- 305 Embankment construction shall consist of the placement of excavated and borrowed

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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 rock not larger than 12 inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- Where embankments are constructed predominantly of blasted rock material, depth of layers shall not exceed 4 feet. Rock fragments having dimensions greater than 4 feet will be permitted provided that they have no dimensions greater than 6 feet and that clearance between adjacent fragments is adequate for the placing and compacting of material in horizontal layers as specified, and that no part of the larger fragments comes within 4 feet of subgrade.
- Layers of embankment and final subgrade material as specified under Subsection(s) 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsection 103f.
- 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.
- 306g All fill slopes shall be compacted either by walking in with dozer/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.
- 313 In cut areas where solid rock is encountered at or near subgrade, the rock shall be excavated

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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

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

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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.
- 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. These anchors shall be placed every ten feet along the pipe beginning at the outlet of the culvert pipe.
- Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- Structural-plate pipe culverts and pipe-arch culverts shall be installed in accordance with the plans and detailed erection instructions furnished by the manufacturer. One copy of the erection instructions shall be furnished the Authorized Officer prior to erection.
- 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.
- 412 Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a

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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.
- 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.
- Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers
 of the roadbed. Material so removed will not be permitted to remain on road shoulders or in
 ditches.
- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 503 Debris from slides shall be disposed of as 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.	Subsection 504
27-10-4.0	0.32	1.85	а
27-10-5.0	0.00	63+50	а
27-10-5.5	0+00	13+10	а
27-10-6.1	0.58	2.18	а
27-10-8.0	0.00	0.54	а
SPUR 4A	0+00	3+00	а
SPUR 4C	0+00	4+50	а

- 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
6-inch	100
3-inch	45- 65
2-inch	-
1½-inch	-
1-inch	-
3/4-inch	-
½-inch	-
3/8-inch	-
No. 4	0-10

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- 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

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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.

- Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted 1010a roadbed shall not be construed as surfacing under this specification.
- 1012 -Each layer of crushed rock material shall be placed, processed, shaped, moistened, or dried to a uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsection 103f. Minimum compaction shall be one (1) hour of continuous compacting for each 150 cubic yards, or fraction thereof, of crushed rock material placed per layer.

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

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

TABLE 1204

AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

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

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

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than 35 at 500 revolutions, as determined by AASHTO T 96.

- 1206 Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.
- The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.
- That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have liquid limits of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1207a That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

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

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

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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.

SLOPE PROTECTION - 1400

- This work shall consist of furnishing, hauling, and placing stone materials (riprap) for slope protection structures (energy dissipaters at culvert outlets) in accordance with these specifications. Material not conforming to these specifications will be rejected, and shall be removed from the slope protection structure as directed by the Authorized Officer.
- Riprap shall be hard, durable, angular in shape, and resistant to weathering and water action.
 Thickness of a single stone should be more than one-third its length. Do not use rounded rock or boulders. Stone shall be free from overburden, spoil, shale, and organic material and conforming to the following:
 - a. Apparent Specific Gravity (AASHTO T85) 2.50 Min.

b. Absorption (AASHTO T85)

4.2% Max.

c. Coarse Durability Index (AASHTO T210)

20 Min.

1403 - Loose riprap shall meet the following gradation:

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

- 1404 The placement of slope protection riprap by the end dumping method is not permitted.
- Riprap shall be placed to produce a well keyed mass of rock with the least practical amount of void spaces. The foundation course is the course placed in contact with the ground surface, and shall be placed on a stable key bench. Bearing shall not be on smaller rocks that may be used for filling voids.
- 1405a Riprap shall be placed directly under the culvert outlet and extend to the point where a 45-degree angle from the outlet invert intersects the key bench. Riprap shall extend a minimum distance equal to the culvert diameter on all sides.
- Determination of the acceptability of the slope protection structure will be by visual inspection and / or physical measurements by the Authorized Officer.

EROSION CONTROL - 1700

- This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

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- 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.
- 1707 Completed and partially completed segments of road(s) to be carried over the winter and early spring periods shall be stabilized by mulching exposed areas at the rate of 2,000 pounds per acre.
- Road segments not completed during dry weather periods shall be winterized, by providing a well drained roadway by 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.

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

- 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.
- 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%

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Available phosphoric acid 20% Potassium 0%

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.

- 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 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 2.2 acres designated for treatment as shown on the plans and as specified under Subsection 1806, a mixture of water, grass seed, fertilizer and mulch material, or a mixture of grass seed and fertilizer material at the following rate of application:
 - a. Single Stage (Hydraulic):

Water 3,000 gals./acre
Grass Seed 30 lbs./acre
Fertilizer 200 lbs./acre
Mulch 3,000 lbs./acre

b. Dry Application:

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Grass Seed 30 lbs./acre
Fertilizer 200 lbs./acre
Mulch/Straw 3,000 lbs./acre

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

- 1815 The Purchaser may reduce the application rate on partially covered slopes and no application on areas already well stocked with grass or on rock surfaces.
- 1816 The seed, fertilizer and mulch materials shall be placed by the hydraulic or dry method in accordance with the requirements set forth in Subsection 1816a and 1816b.
- 1816a Hydraulic Method The seed, fertilizer and mulch materials shall be mixed with water to form a slurry and then applied under pressure by hydroseeder.
 When processed wood cellulose or grass fiber mulch material is to be incorporated as an integral part of the slurry mix, it shall be added after the seed and fertilizer have been thoroughly mixed.
- 1816b Dry Method Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, fertilizer spreaders, or other approved mechanical seeding equipment may be used when seed and fertilizer are to be applied in dry form.
- 1817 Hydraulic equipment used for the application of slurry shall meet the following requirements:

The equipment shall have a built-in agitation system. The slurry distribution lines shall be large enough to prevent stoppage. Discharge line shall be equipped with a set of hydraulic spray nozzles which will provide even distribution of the slurry on the various slopes to be treated. The slurry tank shall have a minimum operation capacity of 1,300 gallons and shall be mounted on a traveling unit which will place the slurry tank and spray nozzles within sufficient proximity to the areas to be treated so as to provide uniform distribution without waste. Lug- or track type units are not authorized. The hydroseeder must be capable of spraying the slurry a minimum distance of 100 feet. The nozzle, mounted on a stand, must be capable of traversing 360 degrees on a horizontal plane and a minimum of 70 degrees on a vertical plane.

- 1817a Hydromulch slurry mixing shall be with water and seed first, followed by fertilizer, and finally fiber. The time between mixing and application shall not exceed 1 hour.
- The maximum distance to be seeded, fertilized and mulched from the road centerline shall be 100 feet for the cut slopes and 150 feet for the fill slopes.
- 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

2101 - This work shall consist of cutting and the removal of vegetation from the road prism - variable distance and inside curves in accordance with these specifications. This work shall conform to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing

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- Detail Sheet, at designated locations as shown in the plans.
- 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.
- 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.
- 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.

SLOPE STAKING - 2300

- This work shall consist of slope staking and referencing road locations from notes furnished by the BLM in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections on the plans.
- Slope stakes shall consist of 1 3/4 inch x 1/4 inch smooth-finished wood slates of good quality, approximately 18 inches in length and tipped with red luminous paint.
- 2303 Slope stakes shall be set as follows:
 - (a) A slope stake shall be set at the top of the cut slope for cut sections and / or at the toe of the fill for fill sections as shown on the typical road sections sheet included in the plans.
 - (b) For through cut sections both sides of the road shall be staked.
 - (d) For through fill sections both sides of the road shall be staked.
 - (e) For balanced sections both sides of the road shall be staked.

- (f) Stakes shall be set at every section or as directed by the Authorized Officer.
- (g) Daylight locations will be staked as directed by the Authorized Officer. A reference marker is not required for daylight points.
- (f) The slope stake shall be moved back to the reference stake at time of staking. Slope stake and daylight locations shall be marked with a wire flag or equivalent approved by the Authorized Officer. Wire flags shall be colors approved by the Authorized Officer. The Purchaser shall reset the slope stakes after completion of clearing and grubbing operations, where needed.
- A reference marker consisting of an aluminum or plastic tag nailed or stapled to the base of a stump or tree shall be set for each slope stake. If no stumps or trees are available, a stake identical to that used for slope staking may be used. Reference markers shall be readily visible from the slope stake. The markers shall be set at least 10 feet beyond the slope stake.
- 2305 Slope stakes and reference stakes shall be marked as shown on the plans.
- 2306a If clearing limits are not posted, a plastic ribbon shall be hung 10-feet horizontal distance past the slope stake set for a cut, 10-feet horizontal distance past the wire flag set for a daylight point, or 5-feet horizontal distance past the slope stake set for a fill. The plastic ribbon shall be inter-visible between sections and of a florescent color approved by the Authorized Officer.
- 2309 Stationing used is "L" or final location stationing.
- 2310 Stakes shall be marked with black-lumber crayon or with a permanent waterproof felt-tip marker.
- 2311 Slope and reference stakes shall be set to the following standards of accuracy:

Maximum allowable horizontal error +/- 0.2 feet
Maximum allowable vertical error +/- 0.2 foot

- The Purchaser shall complete the required slope staking a minimum of 5 days in advance of construction unless otherwise agreed. Staking and slope staking notes shall be approved in writing by the Authorized Officer prior to right-of-way clearing, timber falling, and construction.
- The Purchaser will slope stake, reference, and furnish the BLM the resulting notes in advance of construction on the road(s) shown below:

Road No.	Approximate No. Of Sides To Stake
27-10-8.4	32

2314 - Data for slope staking is available at the BLM Coos Bay District Office. P - Ground, Grade, Shift, and Template information shall be used to determine actual slope staked location.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of All Roads and Projects T.S. Contract Name: Parkview DM Sale Date: Prepared by: DPH Ph: Print Date: 2/4/2013 11:36:30 AM Construction: 22.60 sta (Surfaced 0.00 sta Natural 22.60 sta) Improve: 0.00 sta Renov: 277.87 sta Decom: 0.00 sta Temp: 0.00 sta 200 Clearing and Grubbing: 0.7 acres \$2,672.58 Clearing: 33.0 sta Grubbing: 1.4 acres Slash Treatment: 0.7 acres Haul: 30,770 sta-yds Culvert: 100 lf wt = 3,600 lbs factor = 1.2 DownSpout: 20 lf PolyPipe: 233 lf Blading 5.21 mi Slide Removal 40 cv Quarry Name: Hoover 1-1/2-0" 60 cy Quarry Name: Hoover 3" 30 cy Quarry Name: Hoover bedding 70 cy 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 Includes Small Quantity Factor of 1.47 1900 Cattlequards: \$0.00 2100 RoadSide Brushing: 11.9 acres \$5,360.63 2200 Surface Treatment: 0.0 tons \$0.00 2300 Engineering: 0.00 sta. \$1,500.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00

Notes:

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

8000 Miscellaneous:

Quarry Development:

Mobilization: Const. \$5,342.00 Surf. \$0.00...... \$5,342.00

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\$0.00

\$0.00

Total: \$102,050.41

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Parkview DM Sale Date: Road Number: 27-10-4.0 Road Name: Park Cr road Road Renovation: 1.53 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$3,870.89
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.25
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 3.7 acres	\$848.34
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. \$263.62 Surf. \$0.00	\$263.62
Quarry Development:	\$0.00
Total: Notes:	\$5,036.10

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

Road Number: 27-10-4.0 Road Name: Park Cr road

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Slide Removal 40 cy

Front End Loader $$90.32/hr \times 3.00 hr = 270.96

Dump Truck: $$91.03/hr \times 3.00 hr = 273.09 Grader: $$137.80/hr \times 1.00 hr = 137.80 Blading: $$512.82/mi \times 1.53 mi = 784.61

Compaction: $$1307.22/mi \times 1.53 mi = $2,000.05$ Clean Culverts: $$264.30/mi \times 1.53 mi = 404.38

Subtotal: \$3,870.89

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: $$532.47/acre \times 0.10 acres = 53.25

Includes Small Quantity Factor of 1.47

Subtotal: \$53.25

Section 1900 Cattlequards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

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

RoadSide Brushing Light: \$229.28/acre x 3.70 acres = \$848.34

Subtotal: \$848.34

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 - 4.93% of total Costs = \$263.62

Road Number: 27-10-4.0 Park Cr road Continued

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$263.62

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$5,036.10

T.S. Contract Name: Parkview DM Sale Date: Road Number: 27-10-5.0 Road Name: Road Renovation: 1.20 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$10,616.22
500 Renovation:	\$3,893.15
Surfacing:	\$2,480.40
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.25
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 2.9 acres	\$1,595.81
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. \$1,029.58 Surf. \$0.00	\$1,029.58
Quarry Development:	\$0.00
Total:	\$19,668.41
Quantities shown are estimates only and not pay items. Surfacing Quantities shown are COMPACTED in place cubic yards.	

Road Number: 27-10-5.0 Road Name: Section 200 Clearing and Grubbing: Subtotal: \$0.00 Section 300 Excavation: Subtotal: \$0.00 Section 400 Drainage: Aluminized 36 inch 14 ga 100 lf x \$57.51/lf x 1.2 = \$6,901.20Full Round 24 inch 20 lf x \$28.09/1f = \$561.80Poly Pipe 24 inch 48 lf x \$26.82/1f = \$1,287.36STA. 60+50 Excavator 215B (1cy) 4 hr x \$81.59/hr = \$326.36MP 0.65 Excavator 225 (1.5cy) 15 hr x \$93.30/hr = \$1,399.50Downspout anchors t post 6 ea x \$20.00/ea = \$120.00Marker All thread 2 ea x \$10.00/ea = \$20.00Subtotal: \$10,616.22 Section 500 Renovation: Blading: $$512.82/mi \times 1.20 mi = 615.38 Pull Ditches: $$139.08/mi \times 1.20 mi = 166.90 Compaction: $$1307.22/mi \times 1.20 mi = $1,568.66$ Clean Culverts: $$264.30/mi \times 1.20 mi = 317.16 Landing construction Tractor: D7 with rippers 7 hr x \$148.35/hr = \$1,038.45Culvert Removal Excavator 225 (1.5cy) 2 hr x \$93.30/hr = \$186.60Subtotal: \$3,893.15 3in minus Quarry Name: Hoover 3" Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 30cv Rock Volume = 30cyRoyalty: $$12.50/cy \times 30cy = 375.00 Processing: $$1.38/cy \times 30cy = 41.40 Compaction: $$0.77/cy \times 30cy = 23.10 T11 Testing: $$0.06/cy \times 30cy = 1.80 T27 Testing: $$0.06/cy \times 30cy = 1.80 Stockpiling: $$1.38/cy \times 30cy = 41.40 Basic Rock Haul cost: $$0.93/\text{cy} \times 30\text{cy} = 27.90 Rock Haul -15% grades: \$1.39/cy-mi x 30cy x 8.00 mi= \$333.60 Rock Haul St& Co Roads: \$0.62/cy-mi x 30cy x 20.00 mi= \$372.00 Basic Water Haul cost: $$0.61/\text{cy} \times 30\text{cy} = 18.30 Water Haul -15% grades: \$0.13/cy-mi x 30cy x 1.00 mi= \$3.90 Quarry Name: Hoover bedding 1-1/2 minus Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 30cy Rock Volume = 30cvRoyalty: $$12.50/cy \times 30cy = 375.00 Processing: $$1.38/cy \times 30cy = 41.40 Compaction: $$0.77/cy \times 30cy = 23.10 T11 Testing: $$0.06/cy \times 30cy = 1.80 T27 Testing: $$0.06/cy \times 30cy = 1.80 Stockpiling: $$1.38/cy \times 30cy = 41.40

Road Number: 27-10-5.0 Continued

Basic Rock Haul cost: $$0.93/\text{cy} \times 30\text{cy} = 27.90

Rock Haul -15% grades: \$1.39/cy-mi x 30cy x 8.00 mi= \$333.60 Rock Haul St& Co Roads: \$0.62/cy-mi x 30cy x 20.00 mi= \$372.00

Basic Water Haul cost: $$0.61/\text{cy} \times 30\text{cy} = 18.30

Water Haul -15% grades: \$0.13/cy-mi x 30cy x 1.00 mi= \$3.90

Subtotal: \$2,480.40

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$532.47/acre \times 0.10 acres = 53.25

Includes Small Quantity Factor of 1.47

Subtotal: \$53.25

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

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

RoadSide Brushing Medium: \$550.28/acre x 2.90 acres = \$1,595.81

Subtotal: \$1,595.81

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 - 19.27% of total Costs = \$1,029.58

Surfacing - 37.50% by rock volume = \$0.00

Subtotal: \$1,029.58

Quarry Development:

Based on 37.50% of total rock volume

Subtotal: \$0.00

Total: \$19,668.41

T.S. Contract Name: Parkview DM Sale Date: Road Number: 27-10-5.5 Road Name: Road Renovation: 0.25 mi 16 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: 0.0 acres	\$197.55
300 Excavation:	\$0.00
400 Drainage:	\$0.00
500 Renovation:	\$4,905.51
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$159.74
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. \$290.71 Surf. \$0.00	\$290.71
Quarry Development:	\$0.00
Total: Notes:	\$5,553.51
Quantities shown are estimates only and not pay items.	

Road Number: 27-10-5.5 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Light: $$15.08/sta \times 13.10 sta = 197.55

Subtotal: \$197.55

Subtotal:

Subtotal:

\$0.00

\$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $$512.82/mi \times 0.25 mi = 128.21 Compaction: $$1307.22/mi \times 0.25 mi = 326.81

Road Reno

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

Subtotal: \$4,905.51

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: \$532.47/acre x 0.30 acres = \$159.74

Includes Small Quantity Factor of 1.47

Subtotal: \$159.74

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Section 2300 Engineering:

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 5.44% of total Costs = \$290.71

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$290.71

Quarry Development:

Road Number: 27-10-5.5 Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$5,553.51

T.S. Contract Name: Parkview DM Sale Date: Road Number: 27-10-6.1 Road Name: Road Renovation: 1.60 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$6,305.00
500 Renovation:	\$4,002.52
Surfacing:	\$4,134.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.2 acres	\$106.49
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 3.8 acres	\$2,091.06
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. \$919.11 Surf. \$0.00	\$919.11
Quarry Development:	\$0.00
Total:	\$17,558.19
Notes: Quantities shown are estimates only and not pay items.	

```
Road Number: 27-10-6.1 Road Name:
Section 200 Clearing and Grubbing:
                                                                      Subtotal:
                                                                                     $0.00
Section 300 Excavation:
                                                                      Subtotal: $0.00
Section 400 Drainage:
 Comment: MP 1.09
  Poly Pipe 18 inch 35 lf x $17.72/1f = $620.20
  Poly Pipe 24 inch 70 lf x $26.82/1f = $1,877.40
  Poly Pipe 24 inch 80 lf x $26.82/1f = $2,145.60
  Culvert replacement
  Excavator 215B (1cy)
                                10 hr x $81.59/hr = $815.90
  Culvert replacement MP1.09
                                10 hr x $81.59/hr = $815.90
  Excavator 215B (1cy)
  markers
   all thread 3 ea x $10.00/ea = $30.00
                                                                      Subtotal: $6,305.00
Section 500 Renovation:
  Blading: $512.82/mi \times 1.60 mi = $820.51
  Pull Ditches: $139.08/mi \times 1.60 mi = $222.53
  Compaction: $1307.22/mi \times 1.60 mi = $2,091.55
  Clean Culverts: $264.30/mi x 1.60 mi = $422.88
  landing Construction
   Tractor: D7 with rippers 3 \text{ hr x } $148.35/\text{hr} = $445.05
                                                                      Subtotal: $4,002.52
             Quarry Name: Hoover 1-1/2-0"
1-1/2 minus
  Length TopW BotW Depth CWid #TOs Width F.W.L Taper
                                                               Other
                                                               60cv
  Rock Volume = 60cy
  Royalty: $12.50/cy \times 60cy = $750.00
  Processing: $1.38/cy \times 60cy = $82.80
  Compaction: $0.77/cy \times 60cy = $46.20
  T11 Testing: $0.06/cy \times 60cy = $3.60
  T27 Testing: $0.06/cy \times 60cy = $3.60
  Stockpiling: $1.38/cy \times 60cy = $82.80
  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 8.00 mi= $667.20
  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
1-1/2 minus Quarry Name: Hoover bedding
  Length TopW BotW Depth CWid #TOs Width F.W.L Taper
                                                               Other
                                                               40cy
  Rock Volume = 40cy
  Royalty: $12.50/cy \times 40cy = $500.00
  Processing: $1.38/cy \times 40cy = $55.20
  Compaction: $0.77/cy \times 40cy = $30.80
  T11 Testing: $0.06/cy \times 40cy = $2.40
  T27 Testing: $0.06/cy \times 40cy = $2.40
  Stockpiling: $1.38/cy \times 40cy = $55.20
  Basic Rock Haul cost: $0.93/\text{cy} \times 40\text{cy} = $37.20
  Rock Haul -15% grades: $1.39/cy-mi x 40cy x 8.00 mi= $444.80
  Rock Haul St& Co Roads: $0.62/cy-mi x 40cy x 20.00 mi= $496.00
```

Road Number: 27-10-6.1 Continued

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

Water Haul -15% grades: \$0.13/cy-mi x 40cy x 1.00 mi= \$5.20

Subtotal: \$4,134.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$532.47/acre x 0.20 acres = \$106.49

Includes Small Quantity Factor of 1.47

Subtotal: \$106.49

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

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

RoadSide Brushing Medium: \$550.28/acre x 3.80 acres = \$2,091.06

Subtotal: \$2,091.06

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 - 17.21% of total Costs = \$919.11

Surfacing - 62.50% by rock volume = \$0.00

Subtotal: \$919.11

Quarry Development:

Based on 62.50% of total rock volume

Subtotal: \$0.00

Total: \$17,558.19

T.S. Contract Name: Parkview DM Sale Date: Road Number: 27-10-8.0 Road Name:	
Road Renovation: 0.54 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
<pre>400 Drainage: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf</pre>	\$0.00
500 Renovation:	\$1,200.65
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.3 acres	\$715.36
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. \$105.84 Surf. \$0.00	\$105.84
Quarry Development:	\$0.00
Total: Notes:	\$2,021.85

Road Number: 27-10-8.0 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: $$512.82/mi \times 0.54 \text{ mi} = 276.92 Pull Ditches: $$139.08/mi \times 0.54 \text{ mi} = 75.10 Compaction: $$1307.22/mi \times 0.54 \text{ mi} = 705.90 Clean Culverts: $$264.30/mi \times 0.54 \text{ mi} = 142.72

Subtotal: \$1,200.65

Surfacing:

Subtotal: \$0.00

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:

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

RoadSide Brushing Medium: \$550.28/acre x 1.30 acres = \$715.36

Subtotal: \$715.36

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 - 1.98% of total Costs = \$105.84

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$105.84

Quarry Development:

Based on 0.00% of total rock volume

Road Number: 27-10-8.0 Continued

Subtotal: \$0.00

Total: \$2,021.85

T.S. Contract Name: Parkview DM Sale Date: Road Number: 27-10-8.4 Road Name:	- 0E/1E/10
Road Construction: 0.32 mi 14 ft Subgrade 0 ft ditch T.S. Updat	e U5/15/12
200 Clearing and Grubbing: 0.0 acres	\$1,557.22
300 Excavation: 3,620 cy	\$32,223.65
400 Drainage:	\$0.00
500 Renovation:	\$0.00
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 1.0 acres	\$532.47
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	\$1,500.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$1,978.27 Surf. \$0.00	\$1,978.27
Quarry Development:	\$0.00
Total: Notes:	\$37,791.61
Quantities shown are estimates only and not pay items.	

Road Number: 27-10-8.4 Road Name:

Section 200 Clearing and Grubbing:

Clearing - Heavy: \$44.45/sta x 16.80 sta = \$746.76 Grubbing - Medium: \$810.46/acre x 1.00 acres = \$810.46

Subtotal: \$1,557.22

Section 300 Excavation:

Excavation - Rippable: $$3.44/\text{cy} \times 3,620 \text{ cy} = $12,452.80$ Layer Embankment - Common: $$0.24/\text{cy} \times 2,624 \text{ cy} = 629.76

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 16.8 sta = \$311.98

Compaction - Common: $$0.76/cy \times 2,624 cy = $1,994.24$

End Hauling - 100 to 500 ft: $$0.14/\text{sta-yd} \times 30,770 \text{ sta-yd} = $4,307.80$

Blading: \$11.32/station x 16.80 stations = \$190.18

Waste area embankment

Tractor: D7 with rippers 50 hr x \$148.35/hr = \$7,417.50Sheeps foot roller 30 hr x \$163.98/hr = \$4,919.40

Subtotal: \$32,223.65

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: \$532.47/acre x 1.00 acres = \$532.47 Includes Small Quantity Factor of 1.47

Subtotal: \$532.47

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Slope staking

slope staking 1 LS x \$1,500.00/LS = \$1,500.00

Subtotal: \$1,500.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Road Number: 27-10-8.4 Continued

Subtotal: \$0.00

Mobilization:

Construction - 37.03% of total Costs = \$1,978.27

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$1,978.27

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$37,791.61

T.S. Contract Name: Parkview DM Sale Date: Road Number: SPUR 3A Road Name: Road Construction: 0.02 mi 14 ft Subgrade 0 ft ditch T.S. Update	e 05/15/12
200 Clearing and Grubbing: 0.2 acres	
300 Excavation:	\$1,510.40
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	\$53.25
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. \$100.24 Surf. \$0.00	\$100.24
Quarry Development:	\$0.00
Total: Notes:	\$1,914.98
Quantities shown are estimates only and not pay items.	

Road Number: SPUR 3A Road Name:

Section 200 Clearing and Grubbing:

Clearing - Medium: $$30.16/sta \times 0.90 sta = 27.14 Grubbing - Medium: $$810.46/acre \times 0.10 acres = 81.05

Scatter: $$714.48/acre \times 0.20 acres = 142.90

Construction - 1.88% of total Costs = \$100.24 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$251.09 Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 0.9 sta = \$16.71 Blading: \$11.32/station x 0.90 stations = \$10.19Road Construction Tractor: D7 with rippers 10 hr x \$148.35/hr = \$1,483.50Subtotal: \$1,510.40 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: $$532.47/acre \times 0.10 acres = 53.25 Includes Small Quantity Factor of 1.47 Subtotal: \$53.25 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:

Subtotal: \$100.24

Road Number: SPUR 3A Continued

Quarry Development:
Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,914.98

T.S. Contract Name: Parkview DM Sale Date: Road Number: SPUR 3B Road Name: Road Construction: 0.04 mi 14 ft Subgrade 0 ft ditch T.S. Update	e 05/15/12
200 Clearing and Grubbing: 0.2 acres	\$290.29
300 Excavation:	\$3,032.76
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	\$53.25
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. \$186.50 Surf. \$0.00	\$186.50
Quarry Development:	\$0.00
Total:	\$3,562.80
Notes:	

Road Number: SPUR 3B Road Name:

Section 200 Clearing and Grubbing:

Clearing - Medium: $$30.16/sta \times 2.20 sta = 66.35 Grubbing - Medium: $$810.46/acre \times 0.10 acres = 81.05

Construction - 3.49% of total Costs = \$186.50 Surfacing - 0.00% by rock volume = \$0.00

Scatter: $$714.48/acre \times 0.20 acres = 142.90 Subtotal: \$290.29 Section 300 Excavation: Subgrade Compaction: 4 Sta/hr $$18.57/sta. \times 2.2 sta = 40.85 Blading: \$11.32/station x 2.20 stations = \$24.90Road Construction Tractor: D7 with rippers 20 hr x \$148.35/hr = \$2,967.00Subtotal: \$3,032.76 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: $$532.47/acre \times 0.10 acres = 53.25 Includes Small Quantity Factor of 1.47 Subtotal: \$53.25 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:

Subtotal: \$186.50

Road Number: SPUR 3B Continued

Quarry Development:
Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,562.80

T.S. Contract Name: Parkview DM Sale Date: Road Number: SPUR 4A Road Name:	
Road Renovation: 0.06 mi 16 ft Subgrade 0 ft ditch T.S. Update	05/15/12
200 Clearing and Grubbing: 0.3 acres	\$376.44
300 Excavation:	\$2,314.92
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	\$53.25
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. \$151.61 Surf. \$0.00	\$151.61
Quarry Development:	\$0.00
Total: Notes:	\$2,896.21
Quantities shown are estimates only and not pay items.	

Road Number: SPUR 4A Road Name:

Section 200 Clearing and Grubbing:

Grubbing - Medium: \$810.46/acre x 0.20 acres = \$162.09

Scatter: $$714.48/acre \times 0.30 acres = 214.34

Subtotal: \$376.44 Section 300 Excavation: Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 3.0 sta = \$55.71 Blading: \$11.32/station x 3.00 stations = \$33.96Road Construction Tractor: D7 with rippers 15 hr x \$148.35/hr = \$2,225.25Subtotal: \$2,314.92 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: $$532.47/acre \times 0.10 acres = 53.25 Includes Small Quantity Factor of 1.47 Subtotal: \$53.25 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 - 2.84% of total Costs = \$151.61 Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$151.61

Road Number: SPUR 4A Continued

Quarry Development:
Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$2,896.21

T.S. Contract Name: Parkview DM Sale Date: Road Number: SPUR 4B Road Name:	
Road Construction: 0.05 mi 14 ft Subgrade 0 ft ditch T.S. Update	9 05/15/12
200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$3,789.45
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	\$53.25
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. \$212.26 Surf. \$0.00	\$212.26
Quarry Development:	\$0.00
Total: Notes:	\$4,054.96

Road Number: SPUR 4B Road Name:

Section 200 Clearing and Grubbing: Subtotal: \$0.00

Section 300 Excavation:

Subgrade Compaction: 4 Sta/hr \$18.57/sta. x 2.7 sta = \$50.14

Blading: \$11.32/station x 2.70 stations = \$30.56

Road Construction

Tractor: D7 with rippers 25 hr x \$148.35/hr = \$3,708.75

Subtotal: \$3,789.45

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Surfacing:

Subtotal: \$0.00

Subtotal: \$0.00

Subtotal: \$53.25

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: $$532.47/acre \times 0.10 acres = 53.25 Includes Small Quantity Factor of 1.47

Section 1900 Cattleguards:

Section 2100 Roadside Brushing: Subtotal: \$0.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

\$0.00 Subtotal:

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 3.97% of total Costs = \$212.26

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$212.26

Quarry Development:

Based on 0.00% of total rock volume

Road Number: SPUR 4B Continued

Subtotal: \$0.00

Total: \$4,054.96

T.S. Contract Name: Parkview DM Sale Date: Road Number: SPUR 4C Road Name:	
Road Renovation: 0.09 mi 14 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: Culvert: 0 lf wt = 0 lbs factor = 1.2 DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.09 mi	\$1,724.23
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$53.25
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.2 acres	\$110.06
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. \$104.26 Surf. \$0.00	\$104.26
Quarry Development:	\$0.00
Total:	\$1,991.79
Quantities shown are estimates only and not pay items.	

Road Number: SPUR 4C 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

Road Renovation

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

Subtotal: \$1,724.23

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: \$532.47/acre x 0.10 acres = \$53.25

Includes Small Quantity Factor of 1.47

Subtotal: \$53.25

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

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

RoadSide Brushing Medium: \$550.28/acre x 0.20 acres = \$110.06

Subtotal: \$110.06

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 - 1.95% of total Costs = \$104.26

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$104.26

Road Number: SPUR 4C Continued

Quarry Development:
Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,991.79

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Parkview DM Sale Date:

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Comment: lump sum is for equipment washing

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

Rollers & Comp: 1 ea x $(1.00 \times $356.00/ea + 0 \text{ mi x } $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 \leq D7: 1 ea x (1.00 x \$518.00/ea + 0 mi x \$29.49/mi) = \$518.00Dump Truck \geq 10cy: 1 ea x (1.00 x \$228.00/ea + 0 mi x \$4.55/mi) = \$228.00Water Truck: 1 ea x $(1.00 \times \$216.00/ea + 0 \text{ mi x } \$4.33/mi) = \$216.00$

Lump Sum: \$2,145.00

Subtotal: \$5,342.00

Mobilization: Surfacing

Subtotal: \$0.00

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

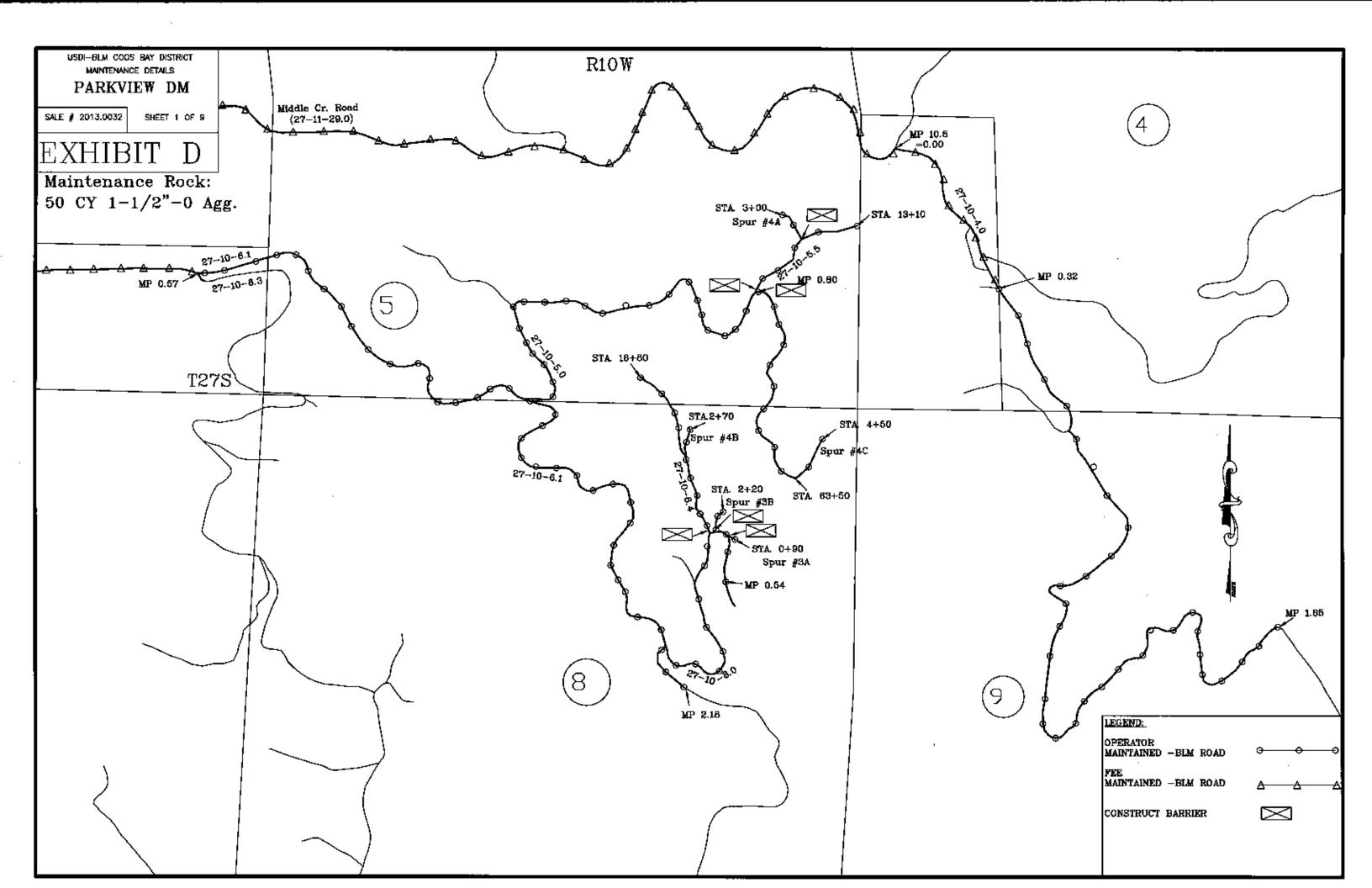
ш с	0	NT	Parkview	D I A	0 - 1 -	D-4
1.5.	Contract	Name:	Parkview	$DI_{\Lambda}I$	Sale	Date:

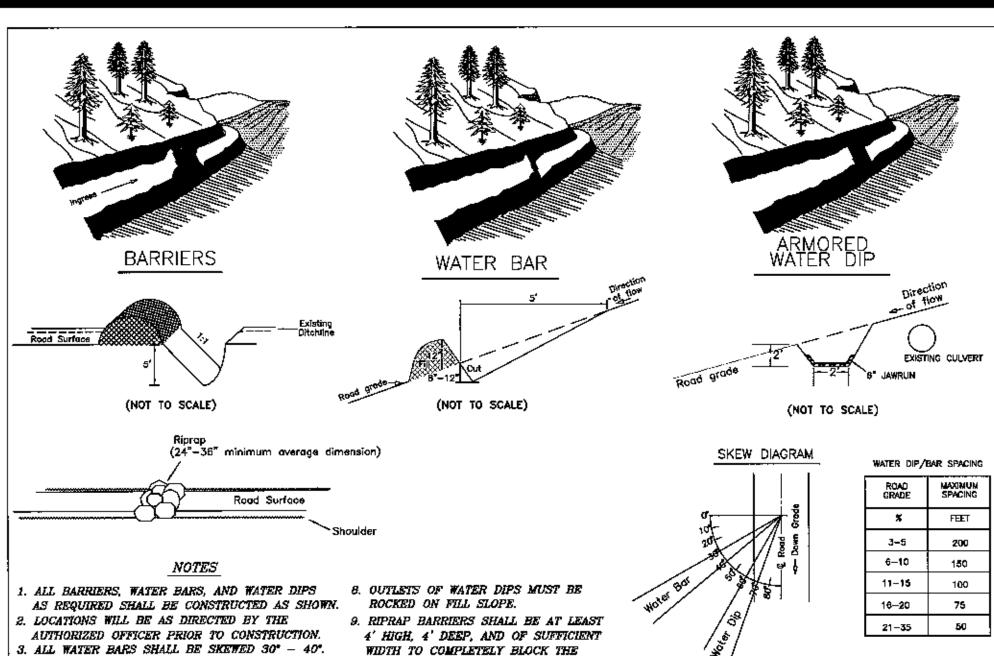
Road Number 27-10-4.0 27-10-5.0 27-10-5.5 27-10-6.1 27-10-8.0 27-10-8.4 SPUR 3A SPUR 3B SPUR 4A SPUR 4B SPUR 4C	16.80 0.90 2.20 2.70	Improv	Renov 80.78 63.50 13.10 84.48 28.51	Decomm	Temp	
Total Sta:	22.60		277.87			
27-10-5.5 27-10-8.4 SPUR 3A SPUR 3B SPUR 4A	d Grubbing	Totals:	Clearing stations 13.10 16.80 0.90 2.20 0.00	Grubbing acres 0.0 1.0 0.1 0.1 0.2	Slash acres 0.0 0.0 0.2 0.2 0.3	
300 Excavation 27-10-8.4		Totals:	Excav C.Y.s 3,620	Haul sta-yds 30,770		
Waste area emk 27-10-8.4 27-10-8.4 Road Construct SPUR 3A	Tractor: D7 Sheeps foot	roller				 50 hr 30 hr 10 hr
Road Construct SPUR 3B			_			 20 hr
Road Construct SPUR 4A	cion		_			15 hr
Road Construct	tion					
SPUR 4B 400 Drainage 27-10-5.0 27-10-5.0 27-10-6.1 27-10-6.1 27-10-6.1 STA. 60+50 27-10-5.0 MP 0.65 27-10-5.0	Aluminize Full Roun Poly Pipe Poly Pipe Poly Pipe Poly Pipe Excavator 2	ed 36 inc ld 24 inc le 24 inc le 18 inc le 24 inc le 24 inc le 25 (1cy)	h 14 ga h 20 lf h 48 lf h 35 lf h 70 lf h 80 lf	100 lf		 4 hr

27-10-5.0	t post						6 02
Marker	t post						0 ea
27-10-5.0	All thread						2 00
Culvert repla							z ea
27-10-6.1		01ED /1	\				10 h
	Excavator						10 nr
Culvert repla							
27-10-6.1	Excavator	215B (1cy)					10 hr
markers							•
27-10-6.1	all thread						3 ea
500 Renovation				Slide cy			
27-10-4.0			1.53	40			
27-10-5.0			1.20	0			
27-10-5.5			0.25	0			
27-10-6.1			1.60	0			
27-10-8.0			0.54	0			
SPUR 4C			0.09	0			
		Totals:	5.21	40			
Landing const	truction						
27-10-5.0	Tractor: D	7 with rip	opers				7 hr
Culvert Remov	val						
27-10-5.0	Excavator	225 (1.5cg	y)				2 hr
Road Reno							
27-10-5.5	Tractor: D	7 with rip	opers				30 hr
landing Const	truction	_	-				
27-10-6.1	Tractor: D	7 with rip	opers				3 hr
Road Renovat:		-					
							1 0 1
SPUR 4C	Tractor: D	/ with rip	opers				10 hr
SPUR 4C	Tractor: D	/ with rip	ppers				10 nr
SPUR 4C	Tractor: D	/ with rip	opers				10 nr
		/ with rip	opers				10 nr
SPUR 4C Surfacing (Cub:		/ with rip	opers				10 nr
Surfacing (Cub:	ic Yards)		opers				10 nr
Surfacing (Cub: Quarry Name: Ho	ic Yards)						10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus	ic Yards)		Roadway	Turnouts	Other		10 hr
Surfacing (Cub: Quarry Name: Ho	ic Yards)					60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus	ic Yards)	0"	Roadway 0	Turnouts 0	Other 60	60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus	ic Yards)		Roadway	Turnouts	Other		10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1	ic Yards) oover 1-1/2-	0"	Roadway 0	Turnouts 0	Other 60	60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho	ic Yards) oover 1-1/2-	0"	Roadway 0 —————	Turnouts 00	Other 60 —————————60	60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus	ic Yards) oover 1-1/2-	0"	Roadway 0 0 Roadway	Turnouts 0 0 Turnouts	Other 60 60 Other	60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho	ic Yards) oover 1-1/2-	0"	Roadway 0 —————	Turnouts 00	Other 60 —————————60	60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus	ic Yards) oover 1-1/2-	O" Totals:	Roadway 0 0 Roadway	Turnouts 0 0 Turnouts 0	Other 60 60 Other 30	60 60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus	ic Yards) oover 1-1/2-	0"	Roadway 0 0 Roadway	Turnouts 0 0 Turnouts	Other 60 60 Other	60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 0 Roadway	Turnouts 0 0 Turnouts 0	Other 60 60 Other 30	60 60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 0 Roadway 0	Turnouts 0 0 Turnouts 0 0	Other 60 Other 30 30	60 60	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 Roadway 0 O	Turnouts 0 0 Turnouts 0 Turnouts	Other 60 Other 30 Other 30 Other	60 ————————————————————————————————————	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 0 0 Roadway 0 0 Roadway 0	Turnouts 0	Other 60 Other 30 Other 30 Other 30	60 60 30 30	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 Roadway 0 OROADWay	Turnouts 0 0 Turnouts 0 Turnouts	Other 60 Other 30 Other 30 Other	60 ————————————————————————————————————	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 0 0 Roadway 0 0 Roadway 0	Turnouts 0	Other 60 Other 30 Other 30 Other 30	60 60 30 30	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Hotological Property Name: Hotological Propert	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals: g	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0 Turnouts 0 Turnouts 0 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Hotological Property Name: Hotological Propert	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals:	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0 Turnouts 0 Turnouts 0 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Hotological Property Name: Hotological Propert	ic Yards) bover 1-1/2- bover 3"	O" Totals: Totals: g	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0 Turnouts 0 Turnouts 0 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0 27-10-6.1	ic Yards) bover 1-1/2- bover 3" bover beddin	O" Totals: Totals: g	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0 Turnouts 0 Turnouts 0 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Hotological Property Name: Hotological Propert	ic Yards) bover 1-1/2- bover 3" bover beddin	O" Totals: Totals: g	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0 Turnouts 0 Turnouts 0 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0 27-10-6.1	ic Yards) bover 1-1/2- bover 3" bover beddin	O" Totals: Totals: Totals: Totals:	Roadway 0 Roadway 0 0 Roadway 0 0 No Quanti	Turnouts 0 Turnouts 0 Turnouts 0 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr
Surfacing (Cub: Quarry Name: Ho 1-1/2 minus 27-10-6.1 Quarry Name: Ho 3in minus 27-10-5.0 Quarry Name: Ho 1-1/2 minus 27-10-5.0 27-10-6.1	ic Yards) bover 1-1/2- bover 3" bover beddin	O" Totals: Totals: g	Roadway 0 Roadway 0 Roadway 0 0	Turnouts 0 Turnouts 0 Turnouts 0 0	Other 60 Other 30 Other 30 Other 40	60 60 30 30 40	10 nr

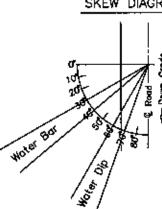
Continuation of Construction Quantities

1800 Soil stabilization - 27-10-4.0 27-10-5.0 27-10-5.5 27-10-6.1 27-10-8.4 SPUR 3A SPUR 3B SPUR 4A SPUR 4B SPUR 4C	Totals:	Dry W/O Mulch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Dry/with Mulch 0.1 0.3 0.2 1.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Hydro Mulch	
1900 Cattleguards	Totals:	No Quanti	ties		
2100 RoadSide Brushing 27-10-4.0 27-10-5.0 27-10-6.1 27-10-8.0 SPUR 4C		acres 3.7 2.9 3.8 1.3 0.2			
	Totals:	11.9			
2200 Surface Treatment	to	ons L.	F.		
	Totals:	No Quanti	ties		
2300 Engineering		stations			
Slope staking	Totals:	0.00			
	ing				1 LS
2400 Minor Concrete	Totals:	No Quanti	ties		
2500 Gabions	Totals:	No Quanti	ties		
8000 Miscellaneous	Totals:	No Quanti	ties		





- 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.
- 8. 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.
- 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.



ALVAYS

THINK

SAFETY

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

BARRIER AND EROSION CONTROL DÉTAIL

DESIGNE	D <u> </u>	HIGUS				
REVIEWE	D K	SANDERS				
APPROVI		HOFFINE			_	
DRAWN	DPH	SCALE	NO	ME		
DATE	12/12	SHEET	2	OF	1	
DRAWING (¥0.					_

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"EXHIBIT D" ESTIMATE OF QUANTITIES*

		SURF.	ACING			OTHER		SOIL STAI	BILIZATION	OTHER
ROAD NUMBER	SPOT ROCK **	AGG. MAINT. ROCK **	AGG. MAINT. ROCK **	SPOT ROCK **	RIPRAP BARRIER **	RIPRAP ARMOR **	JAWRUN ROCK **	DRY	HYDRO- MULCH	
SPEC. NO.	1200	1200	1000	1000	1400	1400		1800	1800	!
UNITS	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	ACRES	ACRES	
27-10-4.0		C	₿	₿	(8)	ⅎ	(A)		<u> </u>	
7-10-5.0	©	©	ⅎ	₿	20 (A)	10 🖲	10 🙆	1.2		
27105.5	(C)	©	₿	₿	(A)	₿	(A)	0.3		
27-10-6.1		C	₿	₿	(A)	₿	(A)		í	
27-10-8.0	0	(C)	®	®	(₿	Ø		1	
27-10-8.4	0	0	₿	₿	(8)	®	(A)	0.4		
	0	0	₿	₿	(4)	ⅎ	(A)			
SPUR 3A	(O	O	(B)	⊞	(8)	(B)	(A)	0.1	[
SPUR 3B	(C)	©	₿	₿	(A)	®	(A)	0.1	<u> </u>	
SPUR 4A	O	0	(B)	®	(A)	ⅎ	(A)	0.1		
SPUR 4B	O	©	(B)	₿	(A)	ⅎ	(A)	0.1		
SPUR 4C	0	©	®	₿	(A)	₿	(A)	0.1	?	
	0	(C)	₿	®	(A)	⊕	(A)] " '		
	(C)	(O)	₿	₿	(A)	₿	(A)	T	1	
	(C)	O	®	₿	(A)	(B)	(A)		T	
	Ö	© ©	(B)	ⅎ	(A)	₿	(A)			
		©	(8)	₿	(A)	(8)	(8)			<u> </u>
	0	(C)	(B)	₿		(B)	(A)			
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	(0)	Ó	₿	®	(A)	B	(A)		1	. j
	(C)		(B)	₿	(A)	B	A			
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	Ö		ⅎ	(8)	(A)	₿	Ø	ļ		
TOTALS	TŌ		₿	(B)	20 A	10 (B)	10 A	2.4		

ITEM	SIZE	GRADE
PITRUN		
1000 (Base)	3*	В
JAWRUN	6*	A
_		
1100	4°	B
1200 (Top)	11/2"	С
1400 (RIPRAP)	24-36*	A
	28"	Ð
CHIP SEAL ROCK	3/4"	5

GRADE INDICATED IN CIRCLE



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

"EXHIBIT D"
ESTIMATE OF QUANTITIES

DESIGNED D. HIGGS
REVIEWED K. SANDERS
APPROVED K. HOFFINE

DRAWN DPH | SCALE NONE
BATE 12/12 SHEET 3 OF 9

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

** ROCK QUANTITES ARE TRUCK MEASUREMENT.

O:\ENG\MYRTLE\TS\PARKVIEWDM\EX.D\PYDM-ExD-sheel-03.DWG

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT D SHEET 4 OF 9

ROAD MAINTENANCE SPECIFICATIONS

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

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

GENERAL - 3000

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

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.

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.

SEASONAL MAINTENANCE - 3200

- The Purchaser shall perform preventive maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes cross ditching, blockage, removing ruts or other surface irregularities, and all other requirements specified in Section 3100.
- 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.

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
27-10-5.0	Upon completion of all logging activities construct water bars from MP 0.80 to Station 63+50, place riprap barrier at MP 0.80, and construct 2' X 2' armored water dip with banks laid back to 1-1/2: 1 slope and riprap armor on fill slope at Sta. 60+50 down from the crossing in accordance with sheet No. 2 of the Exhibit D and as directed by the Authorized Officer. Seed, fertilize, and mulch all disturbed areas including the road surface in accordance with Section 1800 of the Exhibit C.
27-10-5.5	Upon completion of all logging activities construct water bars from Sta. 0+00 to 13+10 and cover entire subgrade with logging slash. Construct earthen barrier at 0+00 in accordance with sheet No. 2 of the Exhibit D and as directed by the Authorized Officer. Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.
27-10-8.4	Upon completion of all logging activities construct water bars and cover entire subgrade with logging slash from Sta. 0+00 to 16+80. Construct earthen barrier at 0+00 in accordance with sheet No. 2 of the Exhibit D and as directed by the Authorized Officer. Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.
SPUR 3A	Upon completion of all logging activities construct water bars and cover entire subgrade with logging slash from Sta. 0+00 to 0+90. Construct earthen barrier at 0+00 in accordance with sheet No. 2 of the Exhibit D and as directed by the Authorized Officer. Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.
SPUR 3B	Upon completion of all logging activities construct water bars and cover entire subgrade with logging slash from Sta. 0+00 to 2+20. Construct earthen barrier at 0+00 in accordance with sheet No. 2 of the Exhibit D and as directed by the Authorized Officer. Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.
SPUR 4A	Upon completion of all logging activities construct water bars and cover entire subgrade with logging slash from Sta. 0+00 to 3+00. Construct earthen barrier at 0+00 in accordance with sheet No. 2 of the Exhibit D and as directed by the Authorized Officer. Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.

SALE NO. 2013.0032 PARKVIEW DM EXHIBIT D SHEET 9 OF 9

- SPUR 4B Upon completion of all logging activities construct water bars and cover entire subgrade with logging slash from Sta. 0+00 to 2+70. Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.
- SPUR 4C Upon completion of all logging activities scarify full width of subgrade to a depth of 12", pull back any bermed excavation, and cover subgrade with logging slash, and from Sta. 0+00 to 4+50. Seed, fertilize, and mulch all disturbed areas in accordance with Section 1800 of the Exhibit C.

ROAD MAINTENANCE APPRAISAL

SALE NO. 2013.0032 SALE NAME: PARKVIEW DM

ROAD NUMBERS	MILES
27-10-4.0	1.5
27-10-5.0	1.2
27-10-5.5	0.3
27-10-6.1	1.6
27-10-8.0	0.5
27-10-8.4	0.3
SPUR 3A	0.0
SPUR 3B	0.0
SPUR 4A	0.1
SPUR 4B	0.1
SPUR 4C	0.1

Total 5.7

-SUMMARY-

1.	MOVE IN:	\$2,102.00
2.	CULVERTS, SLOUGH, SLUMPS, & MISC	\$1,916.00
3.	GRADING FOR TIMBER HAUL	\$2,272.00
4.	GRADING FOR AGGREGATE HAUL	\$0.00
5.	MAINTENANCE ROCK	\$1,333.25
6.	OTHER MAINTENANCE	\$4,885.07

TOTAL MAINTENANCE: \$12,508.32

ROAD MAINTENANCE APPRAISAL

SALE NO. 2013.0032 SALE NAME: PARKVIEW DM

-APPRAISAL WORKSHEET-

1.	MOVE-IN: EQUIPMENT	MOVE-INS COST/MOVE	
	GRADER BACKHOE W/ FE LOADER DUMP TRUCK COMPACTOR	2 \$279.00 2 \$279.00 2 \$137.00 2 \$356.00 TOTAL =	\$558.00 \$558.00 \$274.00 \$712.00 \$2,102.00
2.	CULVERT MAINT., SLOUGH	REMOVAL, SLUMP REPAIRS, ETC.	
	MAINT. OBLIGATION 5.7 MILES @	AVE. COST \$200.00 / MILE =	\$1,136.00
	EQUIPMENT WASHING GRADER BACKHOE W/ FE LOADER DUMP TRUCK COMPACTOR	\$325.00 \$195.00 \$130.00 <u>\$130.00</u> \$780.00	
3.	GRADING FOR TIMBER HAU		\$1,916.00
	UNIT # GRADI	NGS X MILES ACC. MILES 2 5.7 11.4 TOTAL MILES 11.4 \$200.00 / MILE =	\$2,272.00
4.	GRADING FOR AGGREGATE MILES @	HAUL: / MILE =	
5.	MAINTENANCE ROCK: SIZE 1.5"-0	APPR FROM HOOVER MILES	
ROYALT` PROCESSING SLOW HAUI MED. HAUI FAST HAUI	50 CU. YDS. L 50 CU. YDS. L CU. YDS.	\$12.50\$0.96\$2.18\$1.10\$1.0	\$625.00 \$48.00 \$109.00 \$0.00 \$551.25 \$1,333.25
	SIZE 3-0"	APPR FROM MILES	ψ1,000120
ROYALTY PROCESSING SLOW HAUI MED. HAUI FAST HAUI	0 CU. YDS. 0 CU. YDS. L 0 CU. YDS.	\$12.50\$0.96\$2.18\$1.10\$1.0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00

SALE NO. 2013.0032 SALE NAME: PARKVIEW DM

6. OTHER MAINTENANCE:

27-10-5.0 Soil stabilization Riprap Barrier Waterbars Riprap armor jawrun armored water dip	\$324.31 \$600.00 \$140.00 \$300.00 \$300.00 \$200.00	\$1,864.31
27-10-5.5 Earthen Barrier Waterbars Scattering Soil stabilization	\$140.90 \$160.00 \$322.30 \$133.22	
27-10-8.4 Earthen Barrier Waterbars Scattering Soil stabilization	\$140.90 \$340.00 \$413.33 \$170.80	\$756.42
SPUR 3A Earthen Barrier Waterbars Scattering Soil stabilization	\$140.90 \$20.00 \$22.14 \$9.15	\$1,065.03
SPUR 3B Earthen Barrier Waterbars Scattering Soil stabilization	\$140.90 \$60.00 \$54.12 \$22.37	\$192.19
SPUR 4A Earthen Barrier Waterbars Scattering Soil stabilization	\$140.90 \$40.00 \$73.80 \$30.50	\$277.39
SPUR 4B Scattering Soil Stabilization Waterbars	\$73.80 \$27.45 <u>\$60.00</u>	\$285.20 \$161.25
SPUR 4C Scarification scattering Soil Stabilization	\$126.81 \$110.71 <u>\$45.76</u>	\$283.28

TOTAL: \$4,885.07

EXHIBIT E ROAD USE AND MAINTENANCE FEES

SALE VOLUME:	4277	NET MBF

A. ROAD USE FEES - Payable to Private Company:

 COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	USE FEE per MBF	TOTAL FEES
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
		•	TOTA	AL USE FEE:	\$0.00

B. MAINTENANCE FEES:

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

a. Timber Haul:

Surface		NET	ROAD	SURFACE REPLACEMENT		REGULAR MAINT.		TOTAL
Type	ROAD NUMBER	MBF	MILES	/MBF/Mile	Subtotal	/MBF/Mile	Subtotal	FEE
BST	27-10-4	434	0.32		\$0.00	\$0.65	\$90.27	\$90.27
BST	27-10-6.1	3843	0.58		\$0.00	\$0.65	\$1,448.81	\$1,448.81
BST	27-11-29	434	2.10		\$0.00	\$0.65	\$592.41	\$592.41
BST	27-11-29	4277	8.40		\$0.00	\$0.65	\$23,352.42	\$23,352.42
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
BST					\$0.00	\$0.65	\$0.00	\$0.00
	_				\$0.00		\$0.00	\$0.00
			11.4	4	\$0.00		\$25,483.91	\$25,483.91

EXHIBIT E ROAD USE AND MAINTENANCE FEES

SALE VOLUME: 4277 NET MBF

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

a. Timber Haul:

				SURFACE	
Surface		NET	ROAD	REPLACEMENT	ROCKWEAR
Туре	ROAD NUMBER	MBF	MILES	/MBF/Mile	Subtotal
Rock	27-10-4	54	0.20	\$0.51	\$5.51
Rock	27-10-4	90	0.08	\$0.51	\$3.67
Rock	27-10-4	144	0.10	\$0.51	\$7.34
Rock	27-10-4	216	0.10	\$0.51	\$11.02
Rock	27-10-4	326	0.10	\$0.51	\$16.63
Rock	27-10-4	380	0.50	\$0.51	\$96.90
Rock	27-10-4	434	0.45	\$0.51	\$99.60
Dirt	27-10-8.4	546	0.05	\$0.00	\$0.00
Dirt	27-10-8.4	893	0.11	\$0.00	\$0.00
Dirt	Spur 4 B	148	0.05	\$0.00	\$0.00
Dirt	27-10-8.4	1041	0.16	\$0.00	\$0.00
Dirt	Spur 3 B	82	0.02	\$0.00	\$0.00
Dirt	Spur 3 A	117	0.04	\$0.00	\$0.00
Rock	27-10-8.0	199	0.05	\$0.51	\$5.07
Rock	27-10-8.0	1240	0.42	\$0.51	\$265.61
Rock	27-10-6.1	72	0.10	\$0.51	\$3.67
Rock	27-10-6.1	1348	0.04	\$0.51	\$27.50
Rock	27-10-6.1	1475	0.04	\$0.51	\$30.09
Rock	27-10-6.1	1511	0.04	\$0.51	\$30.82
Rock	27-10-6.1	1693	0.10	\$0.51	\$86.34
Rock	27-10-6.1		0.26 0.05	\$0.51	\$253.40
Rock Rock	27-10-6.1 27-10-6.1	2001	0.05 0.15	\$0.51	\$51.03 \$150.06
Dirt	Spur 4 C	217	0.15	\$0.51 \$0.00	\$159.96 \$0.00
Dirt	Spur 4 C	308	0.03	\$0.00	\$0.00
Rock	27-10-5.0	362	0.30	\$0.51	\$55.39
Rock	27-10-5.0	597	0.10	\$0.51	\$30.45
Dirt	Spur 4 A	108	0.06	\$0.00	\$0.00
Dirt	27-10-5.5	218	0.13	\$0.00	\$0.00
Dirt	27-10-5.5	326	0.12	\$0.00	\$0.00
Rock	27-10-5.0	1013	0.05	\$0.51	\$25.83
Rock	27-10-5.0	1067	0.18	\$0.51	\$97.95
Rock	27-10-5.0	1284	0.18	\$0.51	\$117.87
Rock	27-10-5.0	1338	0.20	\$0.51	\$136.48
Rock	27-10-5.0	1392	0.07	\$0.51	\$49.69
Rock	27-10-5.0	1446	0.07	\$0.51	\$51.62
Rock	27-10-5.0	1554	0.05	\$0.51	\$39.63
Rock	27-10-6.1	3645	0.05	\$0.51	\$92.95
Rock	27-10-6.1	3735	0.10	\$0.51	\$190.49
Rock	27-10-6.1	3789	0.10	\$0.51	\$193.24
Rock	27-10-6.1	3825	0.05	\$0.51	\$97.54
Rock	27-10-6.1	3843	0.41	\$0.51	\$803.57
				<u> </u>	\$0.00

5.52 \$3,136.85

EXHIBIT E **ROAD USE AND MAINTENANCE FEES**

SALE VC	DLUME:	4277	NET MBF					
3. ROA	D MAINTE	NANCE AND/OR ROC	KWEAR FEES -	Payable to P	rivate Company:			
							MAINTENANCE and/or	
	Surface		AGREEMENT	ROAD	NET	ROAD	ROCKWEAR FEE	
	Туре	COMPANY NAME	NUMBER	NUMBER	MBF	MILES	/MBF/MILE	TOTALS
-								
	į							\$0.00
								\$0.00
								\$0.00
								\$0.00
								\$0.00
-						0.00		\$0.00

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX.	5.7	MILES OF ROAD.	(SEE EXHIBIT D)

SUMMARY OF ROAD USE &		USE FEES	ROCK\ FE		MAINTE FF	NANCE ES
ROAD MAINTENANCE FEES	TOTAL	\$/MBF	TOTAL	\$/MBF	TOTAL	\$/MBF
1. COMPANY-OWNED ROADS:	\$0.00	\$0.00	\$0.00	•		\$0.00
2. BLM-MAINTAINED ROADS:			\$0.00	\$0.00	\$25,483.91	\$5.96
3. OPERATOR-MAINTAINED ROADS:			\$3,136.85	\$0.73		\$0.00
	\$0.00	\$0.00	\$3,136.85	\$0.73	\$25,483.91	\$5.96

	TOTAL	\$/MBF
MAINTENANCE OBLIGATION PAYABLE TO BLM:	\$28,620.76	\$6.69

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

Timber - Sale - Summary

Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	27S	10W	4	W1/2 SW1/4
O&C	27S	10W	5	S1/2 SW1/4, SE1/4
O&C	27S	10W	8	NE1/4, N1/2 NW1/4, SE1/4 NW1/4, NW1/4 SE 1/4
O&C	27S	10W	9	Lot 3, W1/2 NE1/4,N1/2 NW1/4, SE1/4 NW1/4

Cutting Volu	me (16' MBF)
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Unit	DF	RA	WH	POC			Total	Regen	Partial	ROW
1	338	69	27				434	0	24	0
2	352	72	29				453	0	25	0
3	423	86	34				543	0	30	0
4	2,155	439	169	3			2,766	0	153	0
RW	60	8	13				81	0	0	1
Totals	3,328	674	272	3			4,277	0	232	1

Profit & Risk Logging Costs per 16' MBF 14 % Total Profit & Risk \$ 235.96 Stump to Truck Basic Profit & Risk 11 % + Additional Risk 3 % \$ 85.47 Transportation Back Off \$ 23.86 Road Construction **Tract Features** \$ Road Amortization 0.00 \$ 9.62 Road Maintenance All: 42 bf Avg Log Douglas-fir: 43 bf Other Allowances: Recovery Douglas-fir: 96 % All: 94 % Douglas-fir: 0 % All:0% Salvage \$ 5.60 Habitat Creation \$ 1.22 16' MBF per Acre) Avg Volume (Landing pullback 18 Avg Yarding Slope 35 % \$ 0.82 Slash Disposal 290 Avg Yarding Distance (feet) Vehicle Washing \$ 0.90 40 Avg Age \$ 8.55 **Total Other Allowances:** Volume Cable 93 Volume Ground 7 Volume Aerial 0 22.60 Road Construction Stations Road Improvement Stations 0.00 277.87 Road Renovation Stations Road Decomission Stations 64.46 Cruise Cruised By Morgan-Wooley 10/20/2013 Date Variable Plot,BLM100 Type of Cruise Total Logging Costs per 16' MBF \$ 363.45

Coos, OR County, State **Utilization Centers** Center #1: Winston, OR. 58 Miles Net Volume 16 Miles Center #1: Coos Bay Green (16' MBF) 4,277 Weighted distance to Utilization Centers 54 Salvage (16' MBF) 0 **Length of Contract** Douglas-fir Peeler 0 36 Months Cutting and Removal Time Export Volume 3 1 Months Personal Property Removal Time Scaling Allowance (\$0.75 per 16' MBF) \$3,207.75

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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	17,458	3,328	\$ 561.21	\$ 78.57	\$ 363.45			\$ 119.20	\$ 396,697.60
RA	7,714	674	\$ 373.49	\$ 52.29	\$ 363.45			\$ 37.30	\$ 25,140.20
WH	2,015	272	\$ 469.87	\$ 65.78	\$ 363.45			\$ 47.00	\$ 12,784.00
POC	106	3	\$ 557.00	\$ 77.98	\$ 363.45			\$ 115.60	\$ 346.80
Totals	27,293	4,277							\$ 434,968.60

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Douglas-fir				32.0	62.0	6.0
Western Hemlock				26.0	66.0	8.0
Red Alder		1.0	45.0	54.0		
Port-Orford-cedar					58.0	42.0

Marginal Log Volume

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

Appraised By: Wooley, Michael **Date:** 01/22/2013

Area Approval By: Sill, Tom **Date:** 01/29/2013

District Approval By: Morgan, Estella **Date:** 02/20/2013

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Prospectus

Appraisal Method: (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	17,458	3,328	2,998	
Red Alder	7,714	674	509	
Western Hemlock	2,015	272	240	
Port-Orford-cedar	106	3	3	
Total	27,293	4,277	3,750	

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
4,553	27,293	166	12.2	4,532	107,180	42

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
107,180	1,001	108,181	4.0	4,277	4,553	94 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
3,460	17,458	198	12.6	3,456	80,418	43

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
80,418	178	80,596	4.6	3,328	3,460	96 %

Cutting Areas

Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres
1		24		24
2		25		25
3		30		30
4		153		153
RW			1	1
Totals :		232	1	233

Form 5440-9 (November 2011)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

☑ TIMBER or TIMBER AND OTHER WOOD PRODUCTS

DEPOSIT AND BID FOR

□ VEGETATIVE RESOURCES (Other Than Timber)

Name of Bidder
Tract Number
ORC00-TS-2013.0032
Cala Manua
Sale Name
PARKVIEW DM
Sale Notice (dated)
' '
02/28/2013
BLM District
COOS BAY DISTRICT

		(Other III				COOS BAY DIS	STRICT
☐ Sealed Bid for S		☑ Written Bid for Oral Auction Sale					
Time for opening se	ealed bids	☐ a.m.	□ p.m.	Sale comme	ences 10:00	☑ a.m.	□ p.m.
On (date)	Place			On (date)	03/29/2013	Place	COOS BAY
In response to the timber/vegetative r				sit and bid are	hereby sub	mitted for the p	ourchase of designated
Required bid deposi cash money of bid bond of corpo	order 🗖 cashier's cl		check ban				e authorized officer.

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per species will be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE - LUMP SUM SALE

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

-	BID SUBMITTED					
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
DOUGLAS-FIR	MBF	3,328	х	=	х	=
WESTERN HEMLOCK	MBF	272	х		х	
RED ALDER	MBF	674	х		х	=
PORT ORFORD CEDAR	MBF	3	х	=	х	=
			Х	=	х	<u>~</u>
			х	=	х	=
			х	=	х	=
			X		Х	=
			X	-	X	=
			X		Х	<u></u>
			Х	<u></u>	Х	
			X	=	Х	=
			Х	-	х	=
			Х	_	Х	=
			х	=	Х	=
			х	=	Х	=
		TOTAL PURC	HASE 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 or L.L.C.	Business address, include zip code (type or print)
Corporation organized under the state laws of	(To be completed following oral bidding) I HEREBY confirm the above oral bid
Signature of Authorized Corporate Signing Officer Title	By (signature) Date
Submit bid, in duplicate, 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	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" or (1a) "Vegetative Resources Other Than Timber" (2) Time bids are to be opened
period for tract.	(3) Legal description

NOTICES

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

(Continued on page 3) (Form 5440-9, page 2)

Form 5440-9 (November 2011)

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

☑ TIMBER or **TIMBER AND OTHER WOOD PRODUCTS**

DEPOSIT AND BID FOR

□ VEGETATIVE RESOURCES

Name of Bidder	
Tract Number ORC00-TS-2013.0032	
Sale Name PARKVIEW DM	•
Sale Notice <i>(dated)</i> 02/28/2013	
BLM District COOS BAY DISTRICT	

		(Other Th	an Timber)			BLM District COOS BAY DIS	STRICT		
☐ Sealed Bid for Sealed Bid Sale					☑ Written Bid for Oral Auction Sale				
Time for opening s	ealed bids	☐ a.m.	□ p.m.	Sale comm	nences 10:00	☑ a.m.	□ p.m.		
On (date)	Place			On (date)	03/29/2013	Place	COOS BAY		
	e above dated Sale resource on the trac			it and bid an	re hereby sub	mitted for the p	ourchase of designated		
Required bid depos	it is \$43	500.00	a	nd is enclosed	in the form of:				
ash money	order 🗖 cashier's cl	eck 🗖 certified	check 🔲 bank	draft					
☐ bid bond of corpo	orate surety on appro-	ved list of the Un	nited States Trea	isury 🗖 guara	anteed remittane	ce approved by the	authorized officer.		
							oid is accepted and the quired payment within		

unit basis per species will be considered. If the bid is rejected the deposit will be returned. BID SCHEDULE - LUMP SUM SALE

30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a

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

	ORAL BID MADE					
PRODUCT SPECIES	UNIT	UNIT ESTIMATED VOLUME OR QUANITY		TOTAL VALUE	UNIT PRICE	TOTAL VALUE
DOUGLAS-FIR	MBF	3,328	х	=	х	=
WESTERN HEMLOCK	MBF	272	Х	==	х	
RED ALDER	MBF	674	Х	=	х	=
PORT ORFORD CEDAR	MBF	3	х	=	х	=
			х	<u></u>	Х	=
			x	=	х	=
			х	=		-
			X	==	X ·	=
			х	=	X	=
			X	-	X	=
			х		X	-
			х		Х	=
			Х	=	Х	=
			Х	=	Х	=
			х		Х	=
			Х		Х	=
		TOTAL PURC	HASE 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 or L.L.C.	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
Title	By (signature) 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" or (1a) "Vegetative Resources Other Than Timber" (2) Time bids are to be opened (3) Legal description

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

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

(Continued on page 3) (Form 5440-9, page 2)

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. *BlDS* 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 Resources, 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 deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.
- (c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/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 Contracting Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.
- 8. AWARD OF CONTRACT Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract
- 9. TIMBER/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 Contracting 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 Resources Sale Contract, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.

- 14. NINETY-DAY SALES If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/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.
- 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 dimensions or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses, (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to "unprocessed timber". Special reporting, branding and painting of logs may be included in contract provisions.*
- 18. DETAILED INFORMATION Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.