

# PART III: EXHIBITS

State Timber Sale Contract  
No. 341-15-36  
Bull Ridge

EXHIBIT B

Page 1 of 3  
629-Form 341-203  
Revised 06/97

## OREGON DEPARTMENT OF FORESTRY

### TIMBER SALE OPERATIONS PLAN

(See Page 2 for instructions)

Date Received by STATE: \_\_\_\_\_

(5) State Brand Information (complete):



(1) Contract No.: 341-15-36

(2) Sale Name: Bull Ridge

(3) Contract Expiration Date: October 31, 2017

Project Completion Dates: October 31, 2016

(4) Purchaser: \_\_\_\_\_

(6) Purchaser Representatives:

|                 |              |                            |             |
|-----------------|--------------|----------------------------|-------------|
| Projects: _____ | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Projects: _____ | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Projects: _____ | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Projects: _____ | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Logging: _____  | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Logging: _____  | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Logging: _____  | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Logging: _____  | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |

(7) State Representatives:

|                 |              |                            |             |
|-----------------|--------------|----------------------------|-------------|
| Projects: _____ | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |
| Logging: _____  | Phone: _____ | Cell/Other<br>Phone: _____ | Home: _____ |

(8) Name of Subcontractors & Starting Dates:

|                               |             |              |
|-------------------------------|-------------|--------------|
| Projects: No(s) _____ - _____ | Date: _____ | Phone: _____ |
| No(s) _____ - _____           | Date: _____ | Phone: _____ |
| No(s) _____ - _____           | Date: _____ | Phone: _____ |
| No(s) _____ - _____           | Date: _____ | Phone: _____ |
| Logging: Felling _____        | Date: _____ | Phone: _____ |
| Yarding: _____                | Date: _____ | Phone: _____ |

(9) Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(10) Operations Map: Attach a copy of timber sale Exhibit A or other suitable map which plainly shows the items listed on the instruction sheet.

EXHIBIT B

INSTRUCTION SHEET FOR OPERATIONS PLAN

**SUBMIT ONE COPY OF PLAN TO STATE**

Operations shall be limited to the work shown in the plan until a revised plan or supplemental plan is submitted covering additional work. Compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act. If STATE has prepared a required Forest Practices Act (FPA) "Written Plan" for operations, PURCHASER shall comply with all provisions of the Written Plan.

**Explanation of Item No. (from Page 1)**

- (5) All sales require you to use a brand furnished by STATE. If the State brand has not been assigned when the plan is submitted, it will be furnished and assigned later. Complete drawing. If more than one brand is assigned to the sale, complete both drawings.
- (6) The contract requires you to have a designated representative available on the sale area or work location who is authorized to receive in your behalf any notice or instruction given by STATE and to take action in regard to performance under the contract. If logging and project work is widely separated, a representative is required for each.
- (7) The STATE representative will be designated when your plan is approved and is the person who will inspect and issue instructions regarding performance.
- (8) Show names of subcontractors to be used for any or all phases of the operations. If subcontractors are not known, or are changed later, give notification to the STATE representative prior to commencement of work by subcontractor.

Show projected dates for commencement of both projects and logging. If projected dates need to be changed at a later date, notification must be given to the STATE representative by supplemental plan or otherwise, prior to commencement of such operations.

- (10) The STATE representative will furnish extra copies of Exhibit A of the contract for your use in preparing the operations map. The map shall use the following legend and show:
  1. Landing locations, approximate setting boundaries, and probable sequence of logging the settings. Number the settings in sequence.
  2. Locations of spur roads planned for construction, other than those required by the timber sale contract. Provide spur road specifications.
  3. Location of proposed tractor yarding roads. Show if and how marked on the ground.
  4. Location of temporary stream crossings.
  5. List the sequence of performing project work.
  6. Location of rock sources - attach pit development plans.



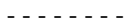
Cable Landing, with numbers for sequence.



Tractor Landing with alphabetical sequence.



Approximate setting boundary.



Spur truck roads.



Tractor yarding roads.



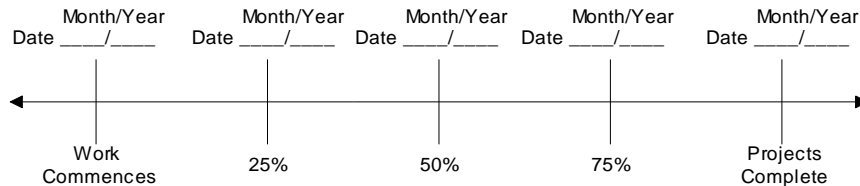
Temporary stream crossings.

EXHIBIT B  
OPERATIONS PLAN

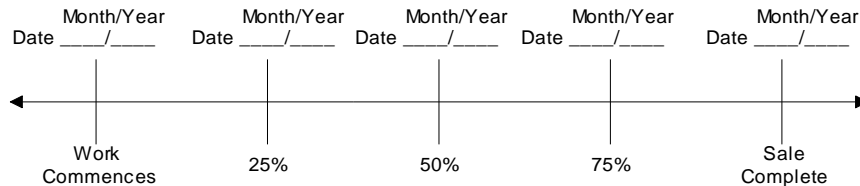
**Completion Timeline**

Indicate on the appropriate timeline below, the dates by which you plan to complete the work as required under this contract. The purpose of this section is to develop a plan that will ensure you complete the work as required, and meet the interim completion date(s) and contract expiration date. This plan is incorporated and made a part of the contract. When, in the opinion of STATE, operations are not commencing in a manner that meets the intent of this plan, you may be placed in violation of contract and your operations suspended until an amended plan is submitted and approved by STATE.

**Projects**



**Harvest & Other Requirements**



**The Federal Endangered Species Act (ESA) prohibits a person from taking any federally listed threatened or endangered species. Taking under the federal ESA may include alteration of habitat. STATE's approval of this plan does not certify that PURCHASER's operation under the plan is lawful under the federal ESA. As provided in the timber sale contract, PURCHASERS must comply with all applicable state, federal, and local laws.**

**PURCHASER's compliance with this plan is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act.**

APPROVED: Date: \_\_\_\_\_

SUBMITTED BY:  
PURCHASER

STATE OF OREGON - DEPARTMENT OF FORESTRY

\_\_\_\_\_  
Title \_\_\_\_\_

\_\_\_\_\_  
Title \_\_\_\_\_

Original: Salem  
cc: District File  
Purchaser

**EXHIBIT C – SAWMILL GRADE (WESTSIDE SCALE)**

**SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION**

(1) ORIGINAL REGISTRATION ☐ Date \_\_\_\_\_  
REVISION NUMBER \_\_\_\_\_ ☐ Date \_\_\_\_\_  
CANCELLATION ☐ Date \_\_\_\_\_

(2) TO: \_\_\_\_\_  
(Third Party Scaling Organization)

(3) FROM: Astoria (04) Phone 503-325-5451  
(State Forestry District)  
Address 92219 Highway 202, Astoria, OR 97103

(4) PURCHASER: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Phone Number: \_\_\_\_\_

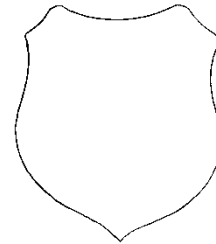
(9) SALE NAME: Bull Ridge

COUNTY: Clatsop

(10) STATE CONTRACT NUMBER: 341-15-36

(11) STATE BRAND REGISTRATION NUMBER: \_\_\_\_\_

(12) STATE BRAND INFORMATION (COMPLETE):



(13) PAINT REQUIRED: YES ☒  
COLOR: Orange

| (5) MINIMUM SCALING SPECIFICATIONS |                    |
|------------------------------------|--------------------|
| SPECIES                            | MINIMUM NET VOLUME |
| Conifers                           | 10                 |
| Hardwoods                          | 10                 |
|                                    |                    |

\* Apply minimum volume test to whole logs over 40' Westside

(6) WESTSIDE SCALE: YES ☒ NO ☐  
Use Region 6 actual taper rule. Logs over 40'.

(7) Weight Scale Sample ☐ ☒

| (14) SPECIAL REQUESTS (Check applicable)                 |                                     |
|--|-------------------------------------|
| PEELABLE CULL (all species) .....                        | <input type="checkbox"/>            |
| <b>NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE</b> ..... | <input checked="" type="checkbox"/> |
| ADD-BACK VOLUME - Deductions due to delay .....          | <input checked="" type="checkbox"/> |
| OTHER: _____   |                                     |

| (8) APPROVED SCALING LOCATIONS<br>(as shown on the ODF Approved Locations web-site) | Species | Yard | Truck | Weight |
|---|---------|------|-------|--------|
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |
|   |         |      |       |        |

(15) REMARKS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator's Name (Optional inclusion by District): \_\_\_\_\_

(16) SIGNATURES:

\_\_\_\_\_  
Purchaser or Authorized Representative Date

\_\_\_\_\_  
State Forester Representative Date

\_\_\_\_\_  
State Forester Representative PRINT NAME

**Notify the District within one hour when branding or painting is inadequate for quick identification, the receipts are missing, not correctly or completely filled out, and/or when logs presented for scaling are impossible to scale accurately.**

**Distribution (See specific instructions on pg. 2): ORIGINAL: Salem / COPIES: TPSO, Approved Scaling Location, Purchaser, District, Mgmt. Unit**



**EXHIBIT C – SAWMILL GRADE**  
INSTRUCTIONS FOR FORM 343-307a (rev. 11/11)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires logging and hauling to be complete, recall branding hammers, date and sign where indicated, write diagonally across page "CANCEL", and send to TPSO.
- (2) Designate Third Party Scaling Organization (TPSO).

Columbia River Log Scaling & Grading Bureau  
P.O. Box 7002, Eugene, OR 97401  
Phone: (541) 342-6007 Fax: (541) 342-2631  
Email: [services@crls.com](mailto:services@crls.com)

Pacific Rim Log Scaling Bureau, Inc.  
8288 28<sup>th</sup> Court North East, Lacey, WA 98516  
Phone: (360) 528-8710 Fax: (360) 528-8718  
Email: [office@prlsb.com](mailto:office@prlsb.com)

Mountain Western Log Scaling & Grading Bureau  
P.O. Box 580, Roseburg, OR 97470  
Phone: (541) 673-5571 Fax: (541) 672-6381  
Email: [info@solsgb.com](mailto:info@solsgb.com)

Yamhill Log Scaling & Grading Bureau  
P.O. Box 709, Forest Grove, OR 97116  
Phone: (503) 359-4474 Fax: (503) 359-4476  
Email: [yamhill@attglobal.net](mailto:yamhill@attglobal.net)

Northwest Log Scalpers, Inc.  
5526 NE 122<sup>nd</sup> Ave, Portland, OR 97230  
Phone: (503) 254-0600 Fax: (503) 408-0919  
Email: [info@nwlogscalpers.com](mailto:info@nwlogscalpers.com)

Pacific Log Scaling & Grading Bureau, Inc.  
P.O. Box 23939, Portland, OR 97281  
Phone: (503) 684-5599 Fax: (503) 639-4880  
Email: [PacLogScale@aol.com](mailto:PacLogScale@aol.com)

- (3) State District office, address and phone.
- (4) Enter Purchaser's business name, address, and phone number as it appears on the Contract.
- (5) Minimum Scaling Specifications.
- (6) Westside – Region 6 actual taper segment scale. Check Yes or No. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Westside).
- (7) Weight Scale Sample – Check box if sale is to be a Weight Scale Sample. All specifics for handling, scaling and processing will be attached or explained in the Remarks section Item (15).
- (8) Show scaling locations only applicable to TPSO. Location name should appear as it does on the ODF Approved Scaling Location web site: [http://www.odf.state.or.us/DIVISIONS/management/asset\\_management/ScalingLocation.asp](http://www.odf.state.or.us/DIVISIONS/management/asset_management/ScalingLocation.asp) Locations with scaling and processing directions specific to their location should be on a separate form. Species should be identified if not capable of receiving "all" species. Check appropriate box for either: yard, truck scale, or weight. Refer to the web site listed above for the locations approval status.
- (9) Enter sale name and county.
- (10) Enter sale Contract number.
- (11) Enter Oregon's State Brand Registry Number **(REQUIRED)**.
- (12) Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (15).
- (13) Check yes for Paint Required and designate "Orange" for color. Non required removal volumes may sometimes require blue paint.
- (14) Special Requests. These are requests that will be applied to ODF timber sales. All boxes applicable to the timber sales designated in the Exhibit C form must be "marked." If "Other" is indicated, it must contain a description and any necessary comments.
- (15) Use this space to designate any weight conversion factors, per load volumes, weight scale sample instructions or any other explanations to clarify scaling, processing and/or mailing requirements. If additional scaling locations are approved, revise original or current form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (16) Require purchaser to sign and date completed form in addition to State Forester Representative, sign and print name on the form.

**Salem Distribution Instructions:** Original will be mailed to Salem after it is electronically scanned and placed in the Salem transfer drive <\\WPODEFILL01\Transfer\ScalingInstructions> or e-mailed directly to [scaling@odf.state.or.us](mailto:scaling@odf.state.or.us). Scaling instructions for each brand should be scanned separately, for each approved TPSO.

## EXHIBIT C – PULP SORT

### PROCESSING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1) ORIGINAL REGISTRATION ☐ Date \_\_\_\_\_  
REVISION NUMBER \_\_\_\_\_ ☐ Date \_\_\_\_\_  
CANCELLATION ☐ Date \_\_\_\_\_

(2) TO: \_\_\_\_\_  
(Approved Pulp Processing Facility)

(3) FROM: Astoria Phone 503-325-5451  
(State Forestry District)

(4) PURCHASER: \_\_\_\_\_

(5) Scaling Bureau (TPSO) Processing Weight receipts:

Mailing Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

(6) **STATE Definition of Approved Pulp Sort:**

- Top portion of the tree (tops).
- All logs with a diameter (Big End) greater than 8 inches marked with blue paint.

(7) PULP FACILITY PROCESSING INSTRUCTIONS:

- Pulp loads shall be weighed in lieu of scaling.
- One Ton = 2000 lbs (Short Ton).
- Pulp loads shall have a yellow Log Load Receipt attached.
- Gross weight and truck tare weight for each load shall be machine printed on the weight receipt.
- Weigher shall sign the weight receipt.
- Weigher shall record the Log Load Receipt number on the weight receipt.
- Weigher shall attach the Weight receipt to the Log Load Receipt and mail them weekly to the TPSO processing the Weight receipt.

(8) TPSO PROCESSING INSTRUCTIONS

- Mail to ODF weekly.
- Convert to mbf using 10 tons per mbf.

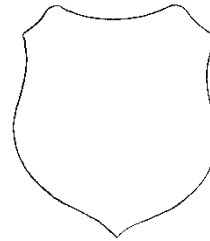
(9) SALE NAME: Bull Ridge

COUNTY: Clatsop

(10) STATE CONTRACT NUMBER: 341-15-36

(11) STATE BRAND REGISTRATION NUMBER \_\_\_\_\_

(12) STATE BRAND INFORMATION: (COMPLETE BELOW)



(13) REMARKS: \_\_\_\_\_

Operator's Name (Optional inclusion by District):

(14) SIGNATURES:

\_\_\_\_\_  
Purchaser or Authorized Representative Date

\_\_\_\_\_  
State Forester Representative Date

\_\_\_\_\_  
State Forester Representative PRINT NAME

**Notify the District within one hour when branding is inadequate for quick identification, the logs are marked with orange paint, the receipts are missing, not correctly or completely filled out, and/or logs do not meet the specifications of the STATE definition of Approved Pulp Sort.**

**Distribution: ORIGINAL: Salem / COPIES: TPSO, Approved Pulp Processing Location, Purchaser, District, Mgmt. Unit**

**EXHIBIT C – PULP SORT**  
INSTRUCTIONS FOR FORM 343-307b (rev. 11/11)

- (1) **Must Complete.** Check appropriate box. REVISION NUMBER requires comments in the Remarks Section (13). CANCELLATION requires logging and hauling to be complete, recall branding hammers, date and sign where indicated, write diagonally across page "CANCEL", and send to TPSO.
- (2) **Must Complete.** Approved Pulp Processing Facility. Write in as written in the Approved Log Delivery Location [http://www.odf.state.or.us/DIVISIONS/management/asset\\_management/ScalingLocation.asp](http://www.odf.state.or.us/DIVISIONS/management/asset_management/ScalingLocation.asp)
- (3) **Must Complete.** State Forestry District and District Phone Number.
- (4) **Must Complete.** Purchaser's business name as it appears on the Contract.
- (5) **Must Complete.** Third Party Scaling Organization that will be processing the weight tickets, mailing address, and phone number.

Columbia River Log Scaling & Grading Bureau  
P.O. Box 7002, Eugene, OR 97401  
Phone: (541) 342-6007 Fax: (541) 342-2631  
Email: [services@crls.com](mailto:services@crls.com)

Pacific Rim Log Scaling Bureau, Inc.  
8288 28<sup>th</sup> Court North East, Lacey, WA 98516  
Phone: (360) 528-8710 Fax: (360) 528-8718  
Email: [office@prlsb.com](mailto:office@prlsb.com)

Mountain Western Log Scaling & Grading Bureau  
P.O. Box 580, Roseburg, OR 97470  
Phone: (541) 673-5571 Fax: (541) 672-6381  
Email: [info@solsgb.com](mailto:info@solsgb.com)

Yamhill Log Scaling & Grading Bureau  
P.O. Box 709, Forest Grove, OR 97116  
Phone: (503) 359-4474 Fax: (503) 359-4476  
Email: [yamhill@attglobal.net](mailto:yamhill@attglobal.net)

Northwest Log Scalpers, Inc.  
5526 NE 122<sup>nd</sup> Ave, Portland, OR 97230  
Phone: (503) 254-0600 Fax: (503) 408-0919  
Email: [info@nwlogscalpers.com](mailto:info@nwlogscalpers.com)

Pacific Log Scaling & Grading Bureau, Inc.  
P.O. Box 23939, Portland, OR 97281  
Phone: (503) 684-5599 Fax: (503) 639-4880  
Email: [PacLogScale@aol.com](mailto:PacLogScale@aol.com)

- (6) **Must Complete.** Big end log not to exceed \_\_\_\_\_ inches. Big end of log is not to exceed 2 inches greater than the minimum removal specifications in the contract. Example: Minimum removal specifications 6 inches and 20 board feet, then the Big end of log not to exceed 8 inches. When conifer and hardwood removal specifications are different, use the smaller removal diameter to determine this specification.
- (9) **Must Complete.** Enter sale name and county. If more than one county write in all the counties that the sale is located in.
- (10) **Must Complete.** Enter sale Contract number.
- (11) **Must Complete.** Enter Oregon's State Brand Registry Number **(REQUIRED)**.
- (12) **Must Complete.** Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make a separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (13).
- (13) Use this section to list any special instructions or the reason for any revisions in section item (1).
- (14) **Must Complete.** Purchaser required to sign and date completed form in addition to State Forester Representative, sign and print name on the form.

**Salem Distribution Instructions:** Original will be mailed to Salem after it is electronically scanned and placed in the Salem transfer drive \\WPODFFILL01\Transfer\ScalingInstructions or e-mailed directly to [scaling@odf.state.or.us](mailto:scaling@odf.state.or.us). Scaling instructions for each brand should be scanned separately, for each approved TPSO.

EXHIBIT D  
FOREST ROAD SPECIFICATIONS

| SUBGRADE WIDTH | SURFACED WIDTH | POINT TO POINT | STATION TO STATION | DRAINAGE      |
|----------------|----------------|----------------|--------------------|---------------|
| 16 feet        | 12 feet        | 1A to 1B       | 0+00 to 63+55      | Crowned/Ditch |
| 16 feet        | 12 feet        | 1C to 1D       | 0+00 to 9+70       | Crowned/Ditch |
| 16 feet        | 12 feet        | 1E to 1F       | 0+00 to 3+30       | Crowned/Ditch |
| 16 feet        | 12 feet        | 3A to 3B       | 0+00 to 29+15      | Crowned/Ditch |
| 16 feet        | 12 feet        | 3C to 3D       | 0+00 to 18+85      | Crowned/Ditch |
| 16 feet        | 12 feet        | 3E to 3F       | 0+00 to 19+55      | Crowned/Ditch |

CLEARING. This work shall consist of clearing, removing, and disposing of all trees, Snags, Down Timber, brush, surface objects, and protruding obstructions within the clearing limits.

Where clearing limits have not been marked, the clearing limits shall extend 5 feet back of the top of the cutslope and 5 feet out from the toe of the fill slope, or as directed by STATE. Clearing debris shall not be placed or permitted to remain in or under any road embankment sections. Clearing debris shall not be left lodged against standing trees.

All danger trees, leaners, and Snags outside the clearing limits which could fall and hit the road shall be felled.

GRUBBING. This work shall consist of the removal or digging out of stumps and protruding objects.

All stumps shall be completely removed within the limits of required grubbing. Stumps overhanging cutslopes shall be removed. Grubbing debris shall not be placed or permitted to remain in or under any road embankment sections. Grubbing debris shall not be left lodged against standing trees.

GRUBBING CLASSIFICATION.

New construction - from the top of the cutslope to the toe of the fill.

Improvements and reconstructions - 4 feet back from the shoulder of the subgrade or ditch, whichever is widest, or as marked in the field.

CLEARING AND GRUBBING DISPOSAL. Scatter in stable locations through openings in the timber outside of the cleared right-of-way, except areas where end-haul is required. In areas where end-haul is required, clearing and grubbing debris shall be fully contained and hauled to a designated waste area. Clearing and grubbing debris shall be left in a stable location, and not left lodged against standing trees.

## EXHIBIT D

### FOREST ROAD SPECIFICATIONS

**EXCAVATION.** Excavation and grading shall not be done when weather and/or ground conditions are such that damage will result to existing subgrade or cause excessive erosion.

Excavation shall conform to STATE-specified lines, grades, dimensions, and plans when provided. Plans are provided between points 1A to 1B, 1C to 1D, 1E to 1F, 3A to 3B, 3C to 3D, and 3E to 3F.

Unless road plans show otherwise, all roads shall be on a balanced cross section, except when the slope is over 50 percent, the road shall be on full bench for the width specified.

Suitable excavated material shall be used for the formation of fills, shoulders, and drainage structure backfills. Embankment materials shall be free of woody debris, brush, muck, sod, frozen material, and other deleterious materials.

Sidecast includes any road generated excess excavation material which is not essential as part of the road prism, is not compacted, and is below the roadway. Sidecast shall not be placed where it will enter a stream course or where material will accumulate in areas deemed a high-risk site by STATE.

All fills shall be machine compacted according to the "Compaction and Processing Requirements" in this Exhibit.

**ROAD WIDTH LIMITATIONS.** PURCHASER shall obtain advance written approval from STATE to construct the road to a greater width than specified. Extra subgrade width shall be required for:

**Fill Widening.** Add to each fill shoulder 1 foot for fills 3 feet to 6 feet high; 2 feet for fills over 6 feet high.

**Curve Widening.** Widen the inside shoulder of all curves as specified in the plans or as follows: 400 divided by the radius of the curve equals the amount of extra width.

### DRAINAGE

**Subgrade.** Subgrade shall be crowned at 4 to 6 percent as shown on the "Forest Road Specifications" table in this Exhibit.

**Ditch.** Construct "V" shaped ditch 3 feet wide and to a depth of 1 foot below subgrade.

**Ditchouts.** Construct ditchouts to drain away from subgrade at locations marked in the field or as directed by STATE.

**TURNOUTS.** Increase roadbed width an additional 8 feet for both subgrade and surfacing. Length shall be at least 50 feet, or as staked on the ground, plus 25-foot approaches at each end.

Location: Intervisible but not greater than 750 feet apart and as marked in the field.

### SLOPES

Solid Rock

Fractured Rock

Soil - side slopes 50% and over

Soil - side slopes less than 50%

### Back Slopes

Vertical to  $\frac{1}{4}$  :1

$\frac{1}{2}$  :1

$\frac{3}{4}$  :1

1 :1

### Fill Slopes

1½:1

1½:1

Top of cutslope shall be rounded.

**LANDINGS.** Landings shall be constructed as posted in the field, no less than 50 feet wide and no more than 70 feet wide unless otherwise approved by STATE. Surface is to be crowned for drainage with general grade no more than 3 percent. Surface as shown in the "Road Surfacing" table in this Exhibit.

**TURNAROUNDS.** Increase subgrade width an additional 20 feet for a length of 20 feet at locations marked in the field.

**SEASONAL WINTERIZATION.** All unsurfaced roads or unfinished subgrades shall be waterbarred in accordance with the specifications in Exhibit I, and blocked from vehicular traffic prior to October 1, annually and as directed by STATE.

EXHIBIT D

FOREST ROAD SPECIFICATIONS

GENERAL ROAD CONSTRUCTION INSTRUCTIONS:

1. Timber Removal. Remove all trees within posted right-of-way boundary as specified in Section 2210, "Designated Timber."
2. Excavated Materials. Excavated materials shall be utilized for road construction. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Surplus excavated materials and waste materials shall be sloped and compacted for drainage. Fills shall be thoroughly compacted in accordance with this Exhibit. Excess excavated material not used for embankment on Road Segment 1A to 1B, shall be drifted and/or end hauled to be used for fill between Stations 1+60 to 2+70 on Road Segment 1C to 1D.
3. Drainage Ditches. Construct ditchlines, including ditchouts, as directed by STATE. Cut slopes of ditchelines and ditchouts shall not exceed a 1:1 slope. Construct culvert sediment basins. Waste materials from drainage ditches and sediment basins shall be placed in nearby waste areas and uniformly sloped and compacted for drainage, as directed by STATE.
4. Fill Armor and Energy Dissipator Construction. Where rock is specified for fill armor, rock shall be machine placed and tamped at a 1½:1 slope, beginning at the toe of the fill. Where rock is used for an energy dissipator, rock shall be placed below the culvert outlet and embedded for a minimum of 3 feet, in accordance with Exhibit E.
5. Equipment. All excavation and riprap placement shall be performed using a minimum 1½ cubic-yard, track-mounted excavator.
6. Subgrade Preparation and Application of Surfacing Rock.
  - (a) Complete culvert installations, drainage ditches, ditchouts, fill construction, and other specified work prior to the application of surfacing rock.
  - (b) Subgrade shall be crowned at 4 to 6 percent.
  - (c) Upon completion of above required work, apply, process, and compact surfacing rock in accordance with specifications in the "Compaction and Processing Requirements" in this Exhibit. Final road surface shall be crowned at 4 to 6 percent.

EXHIBIT D  
FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

| <u>Segment</u> | <u>Station</u> | <u>Work Description:</u>   |
|----------------|----------------|--|
| 1A to 1B       | 44+85          | Begin full containment.  |
|                | 45+80          | End full containment.  |
|                | 49+20          | Begin drifting of suitable fill material to Road Segment 1C to 1D for fill construction.   |
|                | 50+20          | End drifting suitable fill material to Road Segment 1C to 1D for fill construction.  |
|                | 54+20          | Begin full containment. End-haul suitable excess fill material to Road Segment 1C to 1D for fill construction.                           |
|                | 54+80          | End full containment.  |
|                | 57+40          | Begin full containment. End-haul suitable excess fill material to Road Segment 1C to 1D for fill construction.                           |
|                | 59+80          | End full containment.  |
| 3A to 3B       | 22+00          | Begin utilization of excess landing material from Point 3G, for fill on 3A to 3B (from Station 21+00 to 23+00 of Road Segment 3A to 3B). |
|                | 23+50          | End utilization of excess material in landing creation at Point 3G.  |
| 3E to 3F       | 4+25           | Begin subgrade reinforcement with 6"-0" pit run rock.  |
|                | 4+75           | End subgrade reinforcement with 6"-0" pit run rock.  |
|                | 10+17          | Begin cutslope rounding.   |

EXHIBIT D  
FULL BENCH AND END-HAUL REQUIREMENTS

| POINT TO POINT | STA. TO STA.   | CONTAINMENT -<br>SIDECAST |
|----------------|----------------|---------------------------|
| 1A to 1B       | 44+85 to 45+80 | 1 & 2                     |
| 1A to 1B       | 54+20 to 54+80 | 1 & 2                     |
| 1A to 1B       | 57+40 to 59+80 | 1 & 2                     |

Full Bench and End-Haul Areas General Requirements

Sidecast includes any road generated excess excavation material which is not essential as part of the road prism, is not compacted, and is below the roadway. Material shall not be sidecast unless specified above.

Clearing and grubbing debris shall be end-hauled.

When controlled blasting is required, it shall be accomplished using timing devices, delayed charges, low intensity shots, or other suitable means to contain material within the road prism.

Containment/Sidecast

- (1) Full: No excavated material remains below the road.
- (2) Normal/Incidental: The amount of excavated material lost over the outside edge of the road shall not exceed 1 foot in depth.
- (3) Sidecast: Material shall be spread evenly below the road so that it does not build up behind trees, snags or other debris, and shall not exceed 3 feet in depth. Sidecast shall not be placed where it will enter a stream course or where material will accumulate in areas deemed a high-risk site by STATE.

Any amount of material exceeding the containment requirements shall be removed by whatever means necessary and end-hauled to a designated waste area.

Waste Area Location

- As shown on Exhibit A and as marked in the field.
- Utilize excess suit fill material for fill construction on Road Segment 1C to 1D between Station 1+60 to 2+70.

Waste Area Treatment

- Deposit at waste area, spread evenly, compact, and provide adequate drainage.
- Pile woody debris separate from other waste material.
- Mulch and seed all waste areas in accordance with Exhibit L.



EXHIBIT D  
ROAD SURFACING

| ROAD SEGMENT                 | 1A to 1B           | Location  | Depth of Rock (inches) | POINT TO POINT  |           | Sta. to Sta.  |       | TOTAL VOLUME (CY) |
|------------------------------|--------------------|---|------------------------|-----------------|-----------|---------------|-------|-------------------|
|                              |                    |   |                        | 1A to 1B        |           | 0+00 to 63+55 |       |                   |
| Application                  | Rock Size and Type |   |                        | Volume (CY) per | Number of |               |       |                   |
| Base Rock                    | 4"-0" crushed      | 0+00-63+55  | 8                      | Station         | 50        | Stations      | 63.55 | 3,178             |
| Junctions                    | 4"-0" crushed      | 0+00  | 8                      | Junction        | 22        | Junctions     | 1     | 22                |
| Turnouts                     | 4"-0" crushed      | 4+50, 9+50, 17+90,23+50, 25+90,30+90, 36+10,42+30, 52+00,56+90  | 8                      | TO              | 22        | TO's          | 10    | 220               |
| Turnarounds                  | 4"-0" crushed      | 37+00, 43+20, 61+45   | 8                      | TA              | n/a       | TA's          | 3     | 88                |
| Curve Widening               | 4"-0" crushed      | 23+50, 25+90, 55+00   | 8                      | Curve           | n/a       | Curves        | 3     | 66                |
| Traction Rock                | 1½"-0" crushed     | 1+20-15+20, 27+05-28+60, 30+60-33+85, 43+50-45+00, 47+00-48+50, 49+70-51+85, 53+10-59+40, 60+85-62+35 | 3                      | Station         | 19        | Stations      | 32    | 601               |
| Turnouts                     | 1½"-0" crushed     | 4+50, 9+50, 30+90, 56+90  | 3                      | TO              | 11        | TO's          | 4     | 44                |
| Fill Armor                   | 24"-6" riprap      | 15+50,26+80, 44+05,55+95, 61+60   | N/A                    | Fill            | n/a       | Fills         | 5     | 1,380             |
| Landings                     | 6"-0" pit-run      | 63+55   | N/A                    | Landing         | 66        | Landings      | 1     | 66                |
| Total Rock for Road Segment: |                    |   | 1A to 1B               |                 |           |               |       | 5,665             |
| ROAD SEGMENT                 | 1C to 1D           | Location  | Depth of Rock (inches) | POINT TO POINT  |           | Sta. to Sta.  |       | TOTAL VOLUME (CY) |
|                              |                    |   |                        | 1C to 1D        |           | 0+00 to 9+70  |       |                   |
| Application                  | Rock Size and Type |   |                        | Volume (CY) per | Number of |               |       |                   |
| Base Rock                    | 4"-0" crushed      | 0+00-9+70   | 8                      | Station         | 50        | Stations      | 9.70  | 485               |
| Curve Widening               | 4"-0" crushed      | 3+95  | 8                      | Curve           | n/a       | Curves        | 1     | 22                |
| Turnouts                     | 4"-0" crushed      | 8+00  | N/A                    | TO              | 22        | TO's          | 1     | 22                |
| Turnarounds                  | 4"-0" crushed      | 8+00  | N/A                    | TA              | 11        | TA's          | 1     | 11                |
| Junctions                    | 4"-0" crushed      | 0+00  | N/A                    | Junction        | 22        | Junctions     | 1     | 22                |
| Traction Rock                | 1½"-0" crushed     |   | 3                      | Station         | 19        | Stations      | 1     | 19                |
| Fill Armor                   | 24"-6" riprap      | 2+05  | N/A                    | Fill            | n/a       | Fills         | 1     | 422               |
| Landings                     | 6"-0" pit-run      | 9+70  | N/A                    | Landing         | 66        | Landings      | 1     | 66                |
| Total Rock for Road Segment: |                    |   | 1C to 1D               |                 |           |               |       | 1,069             |

EXHIBIT D  
ROAD SURFACING

| ROAD SEGMENT                 | 1E to 1F           | Location   | Depth of Rock (inches) | POINT TO POINT  |           | Sta. to Sta.  |       | TOTAL VOLUME (CY) |
|------------------------------|--------------------|--|------------------------|-----------------|-----------|---------------|-------|-------------------|
|                              |                    |  |                        | 1E to 1F        |           | 0+00 to 3+30  |       |                   |
| Application                  | Rock Size and Type |  |                        | Volume (CY) per | Number of |               |       |                   |
| Base Rock                    | 4"-0" crushed      | 0+00-3+30  | 8                      | Station         | 50        | Stations      | 3.30  | 165               |
| Traction Rock                | 1½"-0" crushed     |  | 3                      | Station         | 19        | Stations      | 1.5   | 29                |
| Fill Armor                   | 24"-6" riprap      | 0+60   | N/A                    | Fill            | n/a       | Fills         | 1     | 66                |
| Landings                     | 6"-0" pit-run      | 3+30   | N/A                    | Landing         | 66        | Landings      | 1     | 66                |
| Total Rock for Road Segment: |                    |  | 1E to 1F               |                 |           |               |       | 326               |
| ROAD SEGMENT                 | 3A to 3B           | Location   | Depth of Rock (inches) | POINT TO POINT  |           | Sta. to Sta.  |       | TOTAL VOLUME (CY) |
|                              |                    |  |                        | 3A to 3B        |           | 0+00 to 29+15 |       |                   |
| Application                  | Rock Size and Type |  |                        | Volume (CY) per | Number of |               |       |                   |
| Base Rock                    | 4"-0" crushed      | 3A to 3B   | 8                      | Station         | 50        | Stations      | 29.14 | 1,457             |
| Surface Rock                 | 1½"-0" crushed     | 0+00-3+22, 18+30-19+20, 21+15-22+30, 23+40-27+70 | 2                      | Station         | 19        | Stations      | 9.57  | 182               |
| Turnarounds                  | 4"-0" crushed      | 27+25  | 8                      | TA              | 11        | TA's          | 1     | 11                |
| Turnouts                     | 4"-0" crushed      | 11+25, 15+85,                                    | 8                      | TO              | 22        | TO's          | 2     | 44                |
| Landings                     | 6"-0" pit-run      | 22+50, 3B  | N/A                    | Landing         | 66        | Landings      | 2     | 132               |
| Total Rock for Road Segment: |                    |  | 3A to 3B               |                 |           |               |       | 1,826             |
| ROAD SEGMENT                 | 3C to 3D           | Location   | Depth of Rock (inches) | POINT TO POINT  |           | Sta. to Sta.  |       | TOTAL VOLUME (CY) |
|                              |                    |  |                        | 3C to 3D        |           | 0+00 to 18+85 |       |                   |
| Application                  | Rock Size and Type |  |                        | Volume (CY) per | Number of |               |       |                   |
| Base Rock                    | 4"-0" crushed      | 3C to 3D   | 8                      | Station         | 50        | Stations      | 18.85 | 943               |
| Surface Rock                 | 1½"-0" crushed     | 5+80-16+20                                       | 2                      | Station         | 19        | Stations      | 10.40 | 198               |
| Turnarounds                  | 4"-0" crushed      | 17+20  | 8                      | TA              | 11        | TA's          | 1     | 11                |
| Turnouts                     | 4"-0" crushed      | 7+65, 12+90                                      | 8                      | TO              | 22        | TO's          | 2     | 44                |
| Landings                     | 6"-0" pit-run      | 3D   | N/A                    | Landing         | 66        | Landings      | 1     | 66                |
| Total Rock for Road Segment: |                    |  | 3C to 3D               |                 |           |               |       | 1,261             |

EXHIBIT D

ROAD SURFACING

| ROAD SEGMENT                 | 3E to 3F           | Location          | Depth of Rock (inches) | POINT TO POINT  |           | Sta. to Sta.  |       | TOTAL VOLUME (CY) |
|------------------------------|--------------------|-------------------|------------------------|-----------------|-----------|---------------|-------|-------------------|
|                              |                    |                   |                        | 3E to 3F        |           | 0+00 to 19+55 |       |                   |
| Application                  | Rock Size and Type |                   |                        | Volume (CY) per | Number of |               |       |                   |
| Base Rock                    | 4"-0" crushed      | 3E to 3F          | 8                      | Station         | 50        | Stations      | 19.55 | 978               |
| Subgrade Reinforcement       | 6"-0" pit-run      | 4+25-4+75         | N/A                    | Station         | N/A       | Stations      | N/A   | 100               |
| Surface Rock                 | 1½"-0" crushed     | 14+90-16+00       | 2                      | Station         | 19        | Stations      | 1.10  | 21                |
| Turnarounds                  | 4"-0" crushed      | 17+50             | 8                      | TA              | 11        | TA's          | 1     | 11                |
| Turnouts                     | 4"-0" crushed      | 4+70, 9+00, 13+50 | 8                      | TO              | 22        | TO's          | 3     | 66                |
| Landings                     | 6"-0" pit-run      | 3F                | N/A                    | Landing         | 66        | Landings      | 1     | 66                |
| Total Rock for Road Segment: |                    |                   | 3E to 3F               |                 |           |               |       | 1,241             |

| ROCK TOTALS (CY) | 24"-6" | 6"-0" | 4"-0" | 1½"-0" |
|------------------|--------|-------|-------|--------|
| 11,388           | 1,868  | 562   | 7,865 | 1,093  |

Roads shall be uniformly graded, shaped and approved by STATE prior to rocking.

## EXHIBIT D

### ROCK ACCOUNTABILITY

PURCHASER shall obtain subgrade approval from STATE prior to rocking. Rocking shall be limited to periods when weather conditions are acceptable to STATE and when sediment will not enter streams. Additional surfacing needed because of construction season or construction practice is not included in the preceding ROAD SURFACING table, and shall be furnished at PURCHASER expense.

Rock accountability shall be determined by the following methods, as directed by STATE. STATE shall be given 24 hours' notice prior to rocking.

Rock Checking. All rock spreading shall be done only when a STATE representative is present. STATE shall issue a receipt for each load delivered, and rock shall be measured without allowance for shrinkage or shakedown during hauling. Total truck measure volume for each road segment shall be as shown on Exhibit D. Deliver at least \* cubic yards per 8-hour shift, unless otherwise approved by STATE. A penalty of \$10 for each 10 cubic yards which are not delivered during a single shift shall be billed, and payment shall be required prior to final acceptance of the project by STATE.

Depth Measurement. Rock shall be spread and compacted according to the depths specified in Exhibit D. Truck measure volumes are given, but shall not limit the amount of rock spread.

Depth shall be determined in the most compacted area of the surface cross section. The depth of compacted aggregates shall not vary more than 1 inch from the depth specified in the "Road Surfacing" table in Exhibit D. The average depth for each road segment shall be the specified depth or greater. If additional rock is required because of insufficient depth, the locations and volumes to be added shall be determined by STATE.

Load Records. Notify STATE before spreading the rock and maintain a record of all rock delivered for spreading. Make the record available for STATE inspection. A report listing the amount of rock delivered the prior month must be submitted no later than the 15th of each month.

EXHIBIT D

COMPACTION AND PROCESSING REQUIREMENTS

Moisture Content: Compaction must take place when moisture content of the materials being compacted is favorable for effective compaction as determined by STATE.

Compaction Pass: A pass is defined as traveling a road section forward and then backward over that same section.

Subgrade. Subgrade surfaces of the road segments listed below shall be graded and compacted prior to rocking. Compaction shall be accomplished by traveling all surfaces from shoulder to shoulder until the surface is smooth and hard and visible deformation ceases. At least 3 passes shall be made over the entire width and length of the road. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Subgrade shall be crowned at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

| ROAD SEGMENT                                  | COMPACTION EQUIPMENT OPTIONS |
|---|------------------------------|
| All road segments that require rock surfacing | 1                            |

Fills. Embankments and fills shall be placed in (approximately) horizontal layers not more than 8 inches in depth. Each layer shall be separately, and thoroughly, compacted. Compaction equipment shall be operated over the entire width of each layer until visible deformation of the layers ceases. At least 3 passes shall be made over the entire width and length of each layer.

Placing individual rocks or boulders with more depth than the allowed layer thickness shall be permitted, provided the embankment will accommodate them. Such rocks and boulders shall be at least 6 inches below the subgrade. They shall be carefully distributed and the voids filled with finer material, forming a dense and compacted mass. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

| ROAD SEGMENT       | COMPACTION EQUIPMENT OPTIONS |
|--------------------|------------------------------|
| All road segments. | 1, 2, 3, and 4               |

EXHIBIT D

COMPACTION AND PROCESSING REQUIREMENTS

Crushed Rock. The rock shall be uniformly mixed and spread in layers on the approved roadbed. Each layer of crushed rock shall be moistened or dried to uniform moisture content suitable for maximum compaction and compacted in layers not to exceed 6 inches in depth. When more than 1 layer is required, each shall be shaped and compacted before the succeeding layer is placed. Any irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing material until the surface is smooth and uniform. Each layer shall be compacted with a minimum of 3 passes over the entire width and length of the road until the surface is smooth and hard and visible deformation ceases. Compaction shall be accomplished by using one or more of the approved equipment options listed below:

Rock shall be compacted and processed during the same project period it is spread, unless otherwise approved in writing by STATE.

Rock shall be crowned at 4 to 6 percent as specified in the "Forest Roads Specifications" table in Exhibit D.

| ROAD SEGMENT                              | COMPACTION EQUIPMENT OPTIONS |
|---|------------------------------|
| All road segments requiring crushed rock. | 1                            |

EXHIBIT D

COMPACTION EQUIPMENT OPTIONS

- (1) Vibratory Rollers. The drum shall have a smooth surface, a diameter not less than 48 inches, a width not less than 58 inches, and a turning radius of 15 feet or less. (Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 VPM, corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 VPM. It shall be activated by a power unit of not less than 25 horsepower.) The vibratory roller shall be self-propelled and operated at speeds ranging from 0.9 miles to 1.8 miles per hour, as directed by STATE.
- (2) Rubber-Tired Skidders. A rubber-tired skidder weighing a minimum of 20,000 pounds shall be operated over the fill layers so that the entire layered surface comes in contact with the tires. Skidders with oversized tires (high flotation) are not acceptable for compaction.
- (3) Tampingfoot Compactors. Tampingfoot compactors shall exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet. The compactor shall cover a minimum width of 60 inches per pass and weigh a minimum of 16,000 pounds.
- (4) Vibratory Hand-Operated or Backhoe-Mounted Tamper. Vibratory hand-held or hydraulic tampers shall be used for compaction of backfill materials around culverts (and/or bridge approach embankment materials around abutments). The tamper shoe dimensions shall be a minimum of 10" X 13" and capable of a centrifugal force of 2,250 pounds.

EXHIBIT E  
CULVERT SPECIFICATIONS

All culvert materials shall be furnished and installed by PURCHASER, unless otherwise specified in the Contract.

Culverts shall be constructed of corrugated double-walled polyethylene or corrugated aluminized (Type 2).

Polyethylene culverts shall be double-walled and meet the requirements of AASHTO M-294-06, Type S Culvert.

Aluminized (Type 2) steel culverts shall meet the requirements of AASHTO M-36-03<sup>1</sup>.

Polyethylene culverts shall not be used where required culvert diameter is over 24 inches.

Polyethylene joints shall be made with split couplings, corrugated to engage the culvert corrugations, and shall engage a minimum of 4 corrugations, 2 on each side of the culvert joint.

Culverts shall be located according to the alignment and grade as shown on the Plan and Profile, and/or as staked in the field, or as specified in special instructions.

The STATE Representative shall determine final culvert locations and stake the locations in the field prior to installation.

Cross drain culverts on road grades in excess of 3 percent shall be skewed at least 30 degrees from perpendicular to the road centerline, except that cross drain culverts at the low point of dips in roads shall not be skewed.

Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3 percent or greater than 10 percent.

The foundation and trench walls for all culverts shall be free from logs, stumps, limbs, stones, and other objects which would dent or damage the culvert. The culvert trench shall be excavated 3 culvert diameters wide to permit compaction and working on each side of the culvert. Tamping shall be done in 6-inch lifts, 1 culvert diameter each side of the culvert. Bedrock shall be excavated as required to provide a uniform foundation for the full length of the culvert.

A bedding of crushed rock as specified shall be placed to provide a wide band of support and to transmit the load from above evenly over the entire length of the culvert for all culverts.

Backfill shall consist of, job-excavated soil free of stumps, limbs, rocks, or other objects which would damage the culvert.

Transporting of the culvert shall be done carefully. Dragging or allowing free fall from trucks or into trenches shall not be permitted.



EXHIBIT E  
CULVERT SPECIFICATIONS

Minimum height of cover over top of culvert to subgrade when road is to be rocked shall be as follows: 12" for culverts 18" to 36" and 18" for culverts 42" to 96" add 6" for roads which will not be rocked. Minimum vertical cover for other designs shall be as specified by STATE.

Lengths of individual culvert sections shall be not less than 10 feet, unless otherwise provided for in special instructions.

The ends of each culvert shall be free of logs and debris which would restrict the free flow of water.

The intake end of relief culverts shall be provided with a sediment catching basin 3 feet in diameter at the bottom. The outlet end of any culvert which would allow water to erode embankment soil shall be provided with an energy dissipator, half round, or other approved slope protection device. Construct lead-off ditches away from culvert outlets where the slope gradients restrict the free flow of water.

Culverts 24 inches in diameter or larger shall have 1:1 step beveled inlets.

Compaction by tamping utilizing a Vibratory Hand-Operated or Backhoe-Mounted Tamper is required for all culverts.

All culverts scheduled for replacement shall be removed from STATE land and hauled to an approved refuse site in the same project period in which replacement occurred.

The intake ends of culverts in fills less than 3 feet to the top of the culvert shall be marked by driving white fiberglass posts within 6 inches of the downgrade side. Posts shall be a minimum of 6 feet long and 2½ inches wide, with the spade driven 2 feet into the ground within 6 inches of the downgrade side.

A manufacturer's certification that the product was manufactured, tested, and supplied in accordance with this specification shall be furnished to STATE upon request.

Following are the minimum standard gauges for steel culvert and coupling bands. Some culverts may require different gauges and may be found in the culvert listing.

| <u>Dia.</u> | <u>Steel Culvert</u> | <u>Thickness</u> |               | <u>Band Gauges</u> | <u>Band Widths (")</u> |                |
|-------------|----------------------|------------------|---------------|--------------------|------------------------|----------------|
|             | <u>Gauge</u>         | <u>Uncoated</u>  | <u>Coated</u> |                    | <u>Annular</u>         | <u>Helical</u> |
| 12-15       | 16                   | (0.0598")        | (0.064")      | 16                 | 7                      | 12             |
| 18-24       | 16                   | (0.0598")        | (0.064")      | 16                 | 12                     | 12             |
| 30-36       | 16                   | (0.0598")        | (0.064")      | 16                 | 12                     | 12             |
| 42          | 14                   | (0.0747")        | (0.079")      | 16                 | 12                     | 12             |
| 48          | 14                   | (0.0747")        | (0.079")      | 16                 | 24                     | 24             |
| 54          | 14                   | (0.0747")        | (0.079")      | 16                 | 24                     | 24             |
| 60          | 12                   | (0.1046")        | (0.109")      | 16                 | 24                     | 24             |
| 66-72       | 12                   | (0.1046")        | (0.109")      | 16                 | 24                     | 24             |
| 78          | 12                   | (0.1046")        | (0.109")      | 16                 | 24                     | 24             |
| 84          | 12                   | (0.1046")        | (0.109")      | 16                 | 24                     | 24             |
| 90-120      | 12                   | (0.1046")        | (0.109")      | 16                 | 26                     | 26             |

Culverts larger than 60" in diameter shall have (3" x 1") corrugations.

EXHIBIT E  
CULVERT LIST

| CULVERT NO. | DIAMETER (Inches) | LENGTH (Feet) | MATERIAL TYPE | GAUGE | ROAD SEGMENT POINT TO POINT | STATION |
|-------------|-------------------|---------------|---------------|-------|-----------------------------|---------|
| 1           | 18                | 30            | CPP           | n/a   | 1A to 1B                    | 10+00   |
| 2           | 18                | 30            | CPP           | n/a   | 1A to 1B                    | 15+00   |
| 3           | 18                | 30            | CPP           | n/a   | 1A to 1B                    | 20+10   |
| 4           | 18                | 30            | CPP           | n/a   | 1A to 1B                    | 26+00   |
| 5           | 18                | 30            | CPP           | n/a   | 1A to 1B                    | 27+35   |
| 6           | 18                | 30            | CPP           | n/a   | 1A to 1B                    | 37+15   |
| 7           | 18                | 30            | CPP           | n/a   | 1C to 1D                    | 2+90    |
| 8           | 18                | 30            | CPP           | n/a   | 1C to 1D                    | 5+80    |
| 9           | 18                | 30            | CPP           | n/a   | 1C to 1D                    | 9+20    |
| 10          | 18                | 30            | CPP           | n/a   | 1E to 1F                    | 0+40    |
| 11          | 18                | 40            | CPP           | n/a   | 3A to 3B                    | 0+00    |
| 12          | 18                | 40            | CPP           | n/a   | 3C to 3D                    | 0+00    |
| 13          | 18                | 40            | CPP           | n/a   | 3E to 3F                    | 0+00    |
| 14          | 18                | 30            | CPP           | n/a   | 3E to 3F                    | 2+28    |
| 15          | 18                | 30            | CPP           | n/a   | 3E to 3F                    | 5+35    |
| 16          | 18                | 30            | CPP           | n/a   | 3E to 3F                    | 6+25    |
| 17          | 18                | 30            | CPP           | n/a   | 3E to 3F                    | 10+00   |

ACSP = Aluminized, CPP = Polyethylene  
\* = Ditch Disconnect Culvert

EXHIBIT F

ROCK QUARRY DEVELOPMENT AND USE

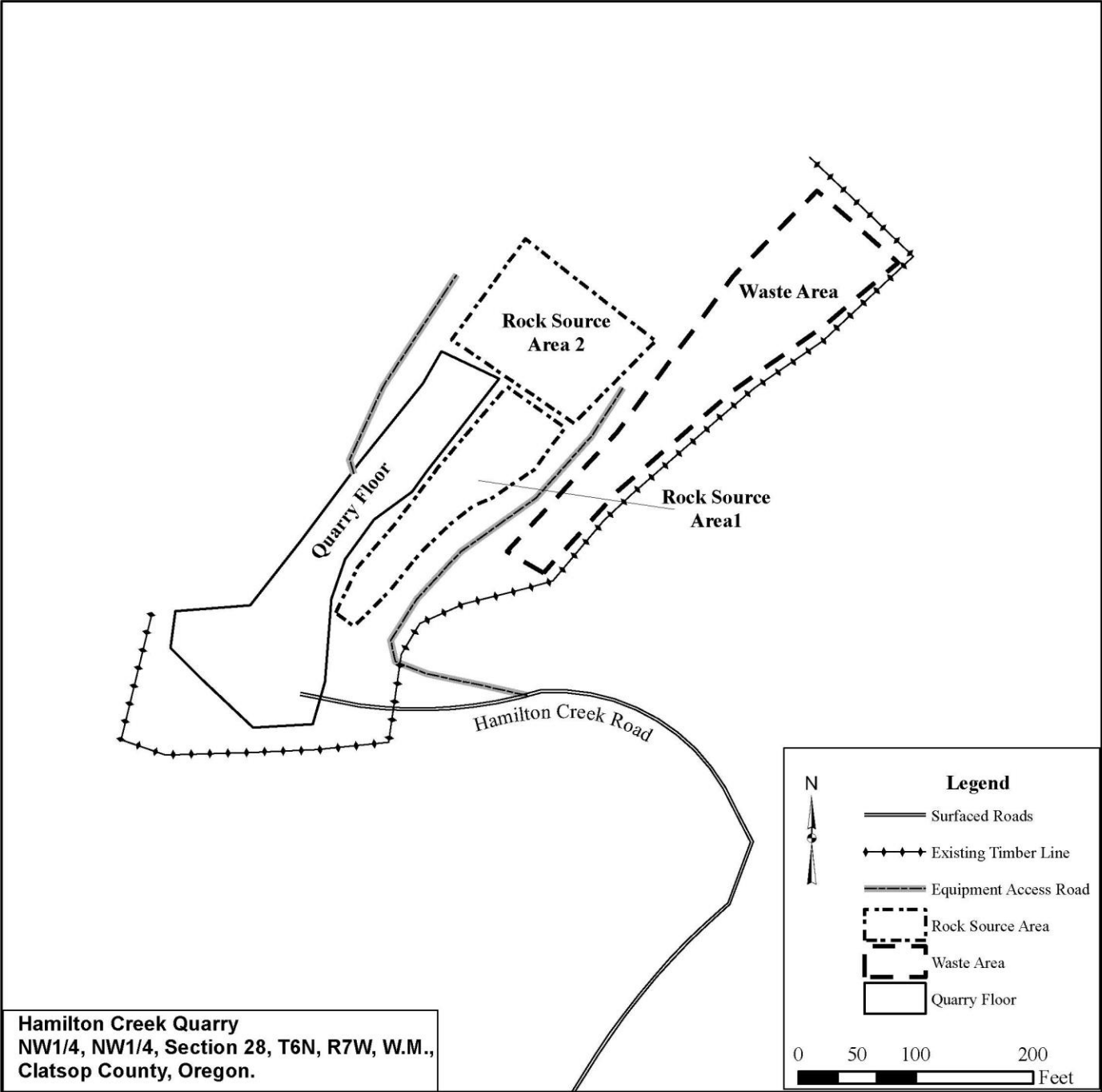
1. PURCHASER shall prepare a written development plan for the quarry area. The plan shall be submitted to STATE for approval prior to conducting any operation in quarry area. The plan shall include, but not be limited to:
  - (a) Location of benches and roads to benches.
  - (b) Disposal site for woody debris, overburden and reject material.
  - (c) Time lines for rock quarry use.
  - (d) Erosion Control measures.
2. PURCHASER shall schedule and coordinate quarry and stockpile usage with other existing or planned activity requiring quarry or stockpile usage. PURCHASER shall notify STATE 5 days prior to the start of quarry development activities.
3. The quarry site shall be left in a condition free from overburden and debris. Access roads to the quarry, and the quarry floor, shall be cleared at the termination of use. Overburden shall be removed for a distance of 20 feet beyond the developed rock source.
4. All overburden and reject material shall be hauled to the designated waste area as directed by STATE.
5. PURCHASER shall conduct the operations relative to the disposal of waste material in such manner that sediment, rock, or debris shall not be washed, conveyed, or otherwise deposited in any stream.
6. At the Hamilton Creek Quarry, all woody debris, including stumps and Slash shall be hauled to the designated disposal areas, piled and disposed of by burning as directed by STATE.
7. PURCHASER shall obtain a FPA Burn Permit prior to debris disposal for the Hamilton Creek Quarry.
8. Controlled blasting techniques shall be utilized for any blasting operations, and shall be accomplished using timing devices, delayed charges, low intensity shots, or other suitable means to contain as much material as possible within the quarry development area. PURCHASER shall maintain a comprehensive blasting log that contains all pertinent data for all blasting operations. The blasting log shall be submitted to the STATE after the completion of all blasting activity. The blasting log is intended for STATE record keeping purposes only.
9. Benches shall be maintained/constructed at intervals of 40 feet or less in height and shall be a minimum of 20 feet in width. Any gravel or talus slopes shall be left with a working face at an angle of 60 percent or less. There shall be a minimum of one bench with an access road to it. Said bench shall be easily accessible with tractors.
10. Quarry face shall be developed in a uniform manner. All quarry backslopes shall be left in a stable condition.
11. Oversized material that is produced or encountered during development shall be broken down and utilized for crushing.

EXHIBIT F

ROCK QUARRY DEVELOPMENT AND USE

12. The quarry floor shall be developed to provide for drainage away from the quarry. All quarry and stockpile site drainage ditches shall be maintained. Quarry access roads shall be cleared and blocked upon completion of quarry use as directed by STATE.
13. Proper winterization and storm-water control measures such as waterbarring, drainage, utilization of filter bales, mulching and/or blocking access shall be constructed and maintained to protect the watershed and Project Work, as directed by STATE.

EXHIBIT F  
ROCK QUARRY DEVELOPMENT AND USE



## EXHIBIT G

### CRUSHED ROCK SPECIFICATIONS

Materials. The material shall be fragments of rock crushed to the required size. The material shall be free from vegetation and lumps of clay. STATE may require screening and/or rejecting of materials utilized for production of crushed rock for the purpose of removing excess fine material. Excess fines are present, when greater than 5 percent of a total rock sample weight, passes a #200 sieve. Rock crushing shall be limited to periods when weather conditions are acceptable to STATE.

Quality and Grading Requirements. The base material shall be rock. River gravel shall not be used. Crushed rock shall meet the grading requirements that follow.

Rock strength: for rock not produced from STATE quarries, the material from which base material is produced or manufactured shall meet the following test requirement for Aggregate Hardness - Test Method AASHTO T 96, 35 percent Maximum.

For the purpose of crushing rock specified under the projects in Section 2610, "Project Work," PURCHASER shall utilize a three-stage rock crusher, or equivalent, unless otherwise approved by STATE.

The rock crusher shall be calibrated to produce rock as specified in this exhibit. Prior to the commencement of production crushing, PURCHASER shall sample, test, and provide rock test results meeting STATE specifications. STATE may then sample and test crushed rock for approval to proceed. PURCHASER shall take one sample of each 2,000 cubic yards of crushed rock material produced thereafter, using approved AASHTO sampling procedures. PURCHASER shall submit samples to a certified laboratory or shall perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures. Prior to testing, each sample shall be split, making one-half of the sample, with proper identification, available for testing by STATE. Each sample and the results of PURCHASER testing shall be made available to STATE within 24 hours of sampling. Any rock crushed prior to STATE approval to proceed shall not be credited to the required rock quantity. Any subsequent rock tests not meeting STATE specifications shall be reason for rejection of that portion of crushed rock produced after that test and shall not be credited to the required rock quantity. STATE may sample the crushed rock at any time during the operation. Results of STATE's tests shall prevail over all other test results.

# EXHIBIT G

## CRUSHED ROCK SPECIFICATIONS

### Grading Requirements

|                    |         |              |         |
|--------------------|---------|--------------|---------|
| <u>For 3/4"-0"</u> | Passing | 1" sieve     | 100%    |
|                    | Passing | 3/4" sieve   | 90-100% |
|                    | Passing | 3/8" sieve   | 55-75%  |
|                    | Passing | 1/4" sieve   | 40-60%  |
|                    | Passing | No. 10 sieve | 20-40%  |
|                    | Passing | No. 40 sieve | 8-16%   |

|                   |         |              |         |
|-------------------|---------|--------------|---------|
| <u>For 1½"-0"</u> | Passing | 2" sieve     | 100%    |
|                   | Passing | 1½" sieve    | 90-100% |
|                   | Passing | 3/4" sieve   | 60-90%  |
|                   | Passing | 1/4" sieve   | 30-50%  |
|                   | Passing | No. 10 sieve | 15-30%  |
|                   | Passing | No. 40 sieve | 7-15%   |

|                  |         |              |         |
|------------------|---------|--------------|---------|
| <u>For 4"-0"</u> | Passing | 5" sieve     | 100%    |
|                  | Passing | 4" sieve     | 90-100% |
|                  | Passing | 2" sieve     | 60-90%  |
|                  | Passing | 3/4" sieve   | 35-60%  |
|                  | Passing | 1/4" sieve   | 15-35%  |
|                  | Passing | No. 10 sieve | 0-20%   |

The referenced sieve shall have square openings as set forth in AASHTO M 92, Woven Cloth Series. The determinations of size and gradation shall be as set forth in AASHTO T 27.

## PIT-RUN AND RIPRAP ROCK SPECIFICATIONS

|                          |         |            |        |
|--------------------------|---------|------------|--------|
| <u>For 6"-0" Pit-Run</u> | Passing | 10" sieve  | 100%   |
|                          | Passing | 6" sieve   | 60-85% |
|                          | Passing | 3" sieve   | 30-50% |
|                          | Passing | 1/4" sieve | 0-20%  |

For 24"-6" Riprap A minimum of 50 percent of the material shall measure a minimum of 24 inches, measured in one dimension. Material shall be clean, well graded, and free of 2"-0" fines.

Control of gradation shall be by visual inspection by STATE.

EXHIBIT H

TYPICAL EMBEDDED ENERGY DISSIPATOR

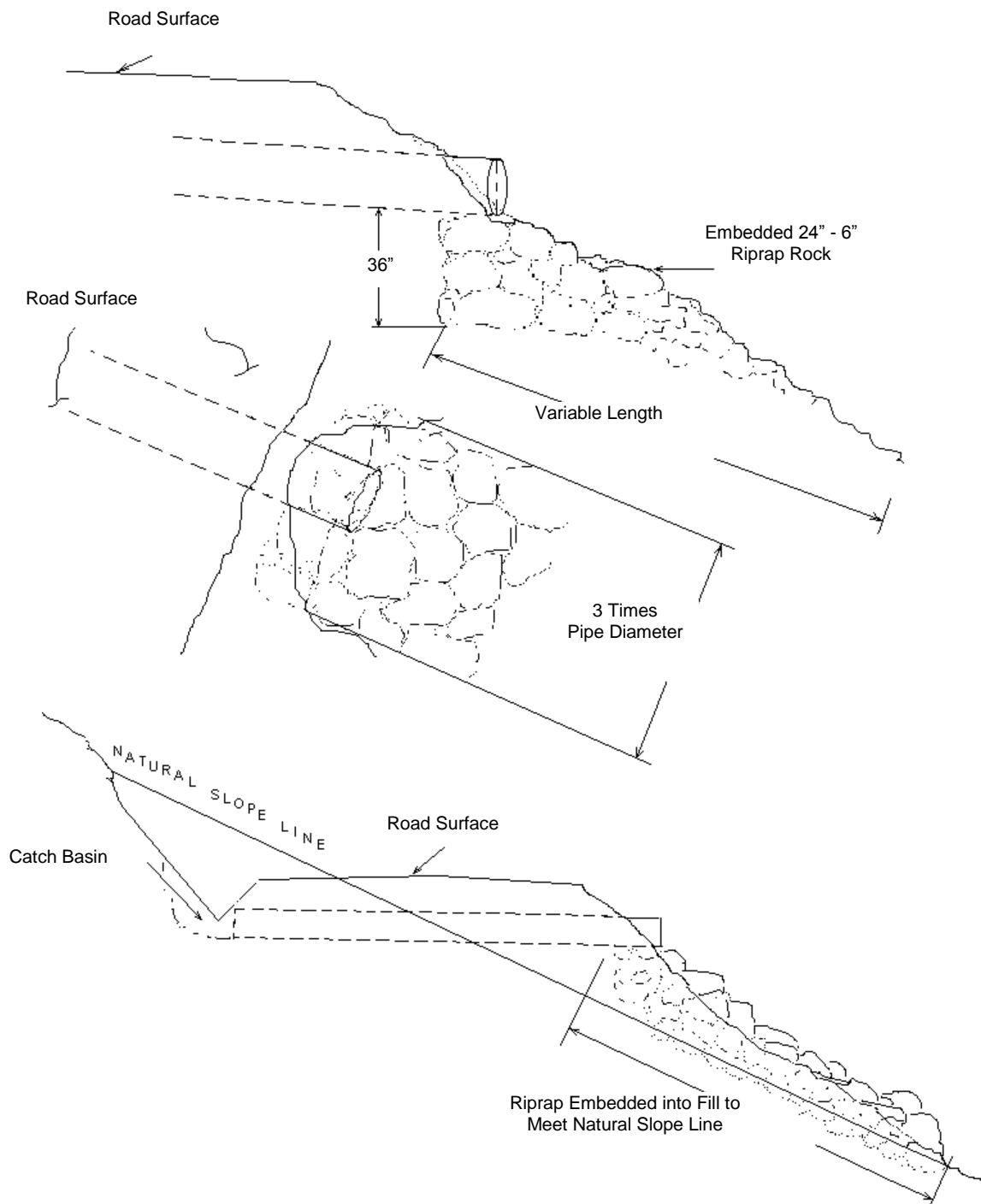
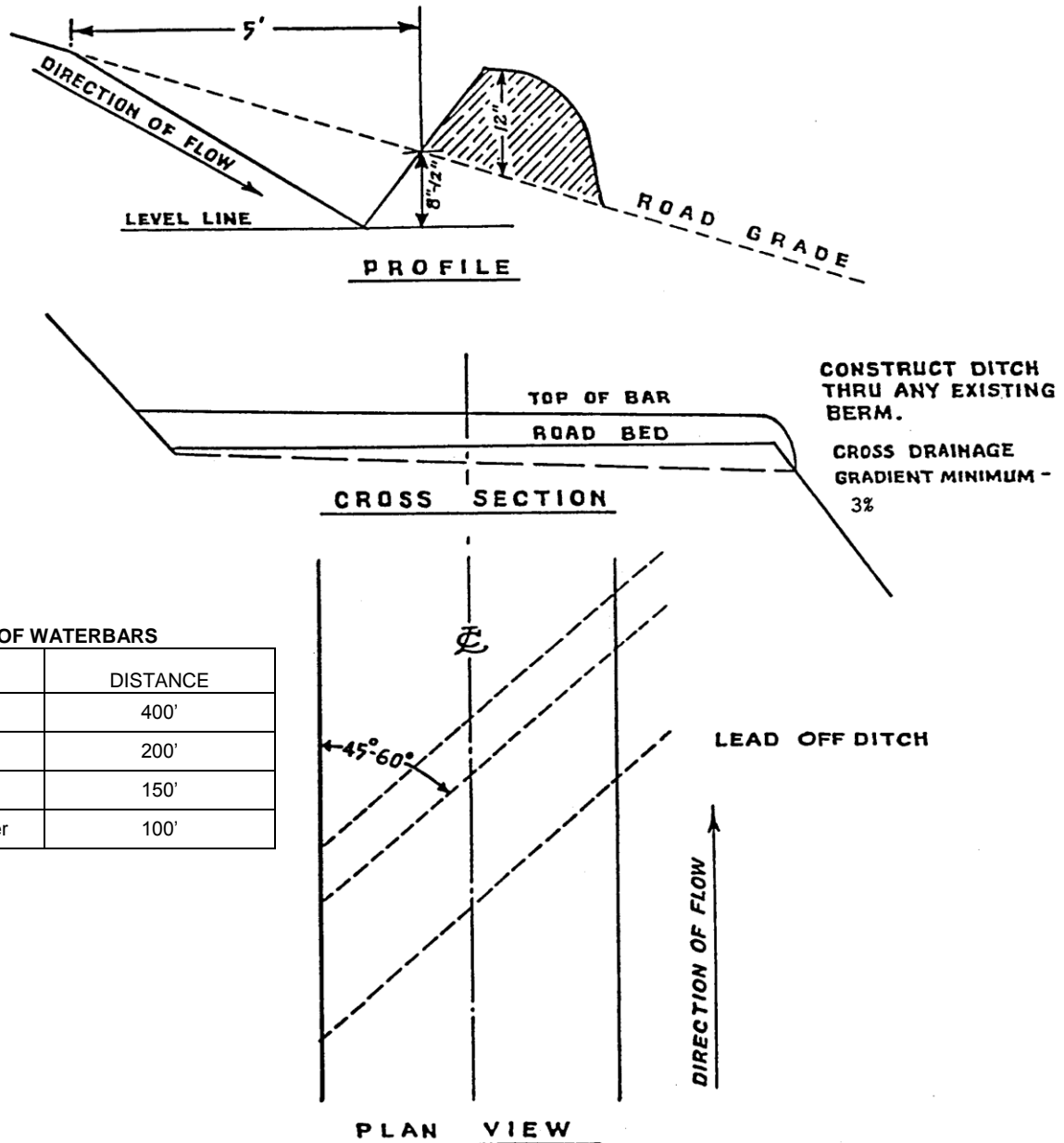




EXHIBIT I

WATERBAR SPECIFICATIONS



SPACING OF WATERBARS

| ROAD GRADE        | DISTANCE |
|-------------------|----------|
| ≤ 5%              | 400'     |
| 6-10%             | 200'     |
| 11-15%            | 150'     |
| 16-20% or greater | 100'     |

WATERBAR SPECIFICATIONS  
 FOR CROSS DITCHING #298

EXHIBIT J

FOREST ROAD GATE DESIGN, CONSTRUCTION, AND INSTALLATION

Hinged Swing Gate

PURCHASER shall design, construct, and install one hinged swing gate at the beginning of Road Segment 1A to 1B, at Station 0+00, or as directed by STATE.

The project requires site visitation, preliminary design and approval, final design and approval, gate construction (including painting), and installation at the above locations.

PROJECT REQUIREMENTS AND MINIMUM SPECIFICATIONS

- (a) Coordinate site visitation, preliminary designs, and final design, construction, and installation of gate with STATE.
- (b) Site visitation to determine the direction of swing and width for gate.
- (c) A preliminary detailed design proposal shall be submitted to STATE of the proposed gates to be installed and obtain written approval by STATE. STATE is responsible for timely review of preliminary design and giving approval to prepare a final design. The design shall meet the following specifications:
  - (1) The gate shall be a hinged swing gate. The structure shall have an underground cross-arm and stabilizers.
  - (2) The gate opening shall be a minimum of 16 feet, and no more than 20 feet. The total structure height shall be a minimum of 8 feet.
  - (3) The gate shall be constructed with steel component materials as shown on page 2 of this Exhibit, unless approved in writing by STATE. The Stabilizer shall be a minimum of 3 feet in length, extending from the posts; with a total minimum length of 6 feet.
  - (4) A blocking post shall be installed beside the road in the direction of the swing on the hinge side of the road; and have a three foot chain attached for securing the gate in the open position. The blocking post shall be constructed with a minimum of 6" SCH 40 steel pipe.
  - (5) The tops of all posts shall have 1/4" caps.
  - (6) The gate shall utilize a lock box capable of a minimum of two locks. The PURCHASER shall supply a minimum of 2 splitters and one pin. The pin shall be permanently connected to the lock box with chain.
  - (7) Prior to painting, gate and posts shall be cleaned and free of rust scale. Paint with a rust resistant primer coat and a topcoat of a rust resistant high visibility yellow paint.
- (d) The final detailed design shall be submitted to STATE for written approval before construction. STATE is responsible of timely review of the final design and giving approval to proceed with construction.
- (e) Construct the gate as to the specifications above and to the approved final design.
- (f) Install the gate at the proper location and as approved by STATE.

EXHIBIT J

FOREST ROAD GATE DESIGN, CONSTRUCTION, AND INSTALLATION

Hinged Swing Gate

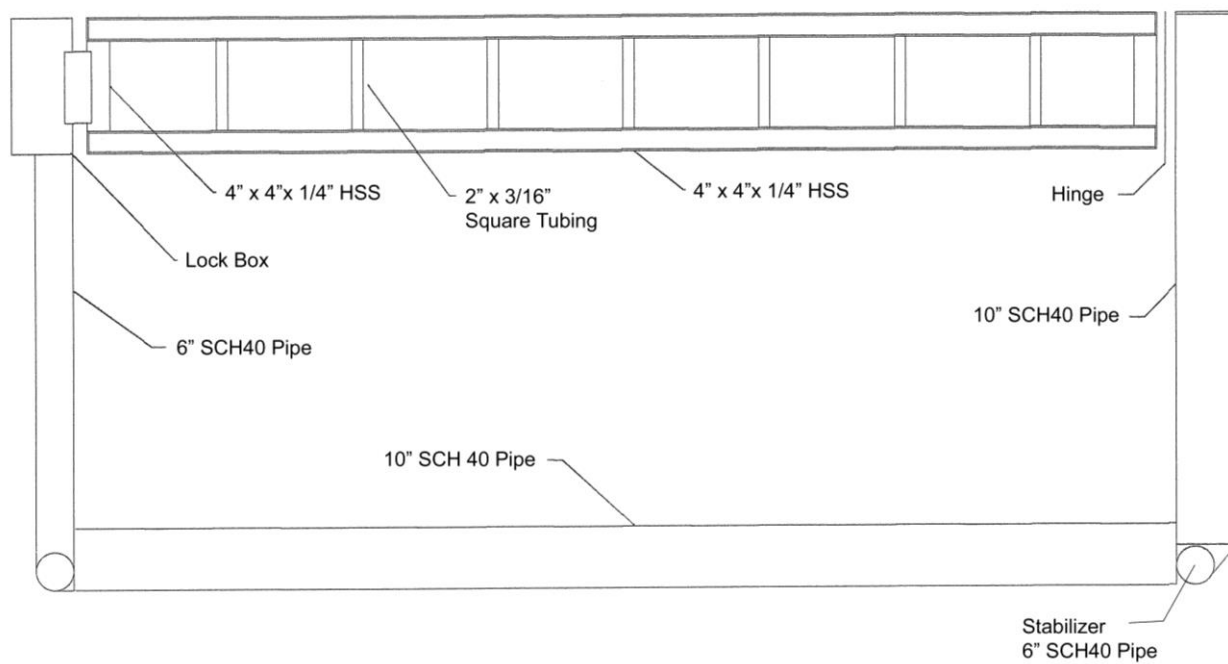


EXHIBIT K

ROAD VACATING SPECIFICATIONS

PURCHASER shall vacate at the following points: V1 and V2. Specific objectives for this project include:

- (a) Fill removal and stream channel development.
  - (b) Culvert removal.
  - (c) Restoration of natural contours by outsloping of the road prism.
  - (d) Sidecast pullback.
  - (e) Minimize disturbance of existing vegetation.
- 
- (1) Tree Removal. Cut or remove all trees necessary to access the project area and to facilitate vacating operations, as directed by STATE. Timber shall NOT be removed as designated timber, unless located within posted timber sale boundaries or right-of-way boundaries.
  - (2) Fill Removal and Stream Channel Development. Remove fills to the natural stream course level(s). Stream channel(s) shall be excavated/developed to specified widths. Developed stream banks shall be sloped at natural contours or no steeper than 1 ½:1, as directed by STATE.
  - (3) Culvert Removal. Remove drainage structures and culverts. Removed culverts shall be hauled to an approved refuse site off of STATE land.
  - (4) Outslope Road. Outslope road to restore natural contours or establish a minimum of 10 percent slope for drainage at designated locations. If the road grade exceeds 10 percent, outslope of the road shall be 2 percent greater than the road grade.
  - (5) Sidecast Pullback. Excavate/pullback previously sidecast materials below the road at designated locations. Developed slopes shall be pulled back to a 1½:1 slope or to natural ground contours. The beginning position for sidecast pullback shall be no greater than 20 feet vertical distance from the existing road surface, in accordance with Exhibit K. Sidecast material remaining greater than 20 feet below the road shall be tapered and sloped for drainage.
  - (6) Use of Excavated Materials.
    - (A) Fill Excavation and Sidecast Pullback. Excavated materials shall be placed on the interior (cut) side of the road, and utilized to restore the cutslope to natural contours, or to a minimum 10 percent outsloped surface for drainage. Any excess material will be hauled to a designated waste area, as directed by STATE.
    - (B) Woody Debris. Shall be placed on the surface of pullback/fill material.
    - (C) Block Roads. Use excavated material from fill removals to block roads from vehicle access, as directed by STATE.
  - (7) Erosion Control. Erosion control shall be completed in a progressive manner. Grass seed and straw mulch shall be applied for every 500 feet of road vacated, prior to continuing work.

All excavated material and bare soil shall utilize grass seed and straw mulch approved by STATE and in accordance with the specifications in Exhibit L. Applied mulch shall be a minimum of 2 inches deep and provide a uniform cover.
  - (8) Construct Waterbars as directed by STATE. Construct waterbars according to the specifications in Exhibit I.

EXHIBIT K

ROAD VACATING SPECIFICATIONS

- (9) Equipment. A minimum 1½ cubic-yard, track mounted excavator shall be used for all excavation, culvert removal, streambed preparation, road blocking, and waterbarring, unless otherwise approved in writing by STATE.
- (10) Dry Conditions. All work shall be performed during dry conditions acceptable to STATE.
- (11) Support, including transport, other equipment, replacements, supplies, maintenance, and repairs, shall be furnished as required to complete the project and shall be furnished without cost to STATE, other than as agreed under the contract terms.

SPECIFIC INSTRUCTIONS/SPECIFICATIONS:

| <u>Segment</u> | <u>Work Description</u>   |
|----------------|---|
| Point V1       | Remove fill, develop 3-foot stream channel. Waterbar access to fill as directed by STATE. |
| Point V2       | Remove fill, develop 3-foot stream channel. Waterbar access to fill as directed by STATE. |

EXHIBIT K

TYPICAL CROSS SECTION VIEW OF ROAD VACATING SIDECAST PULLBACK

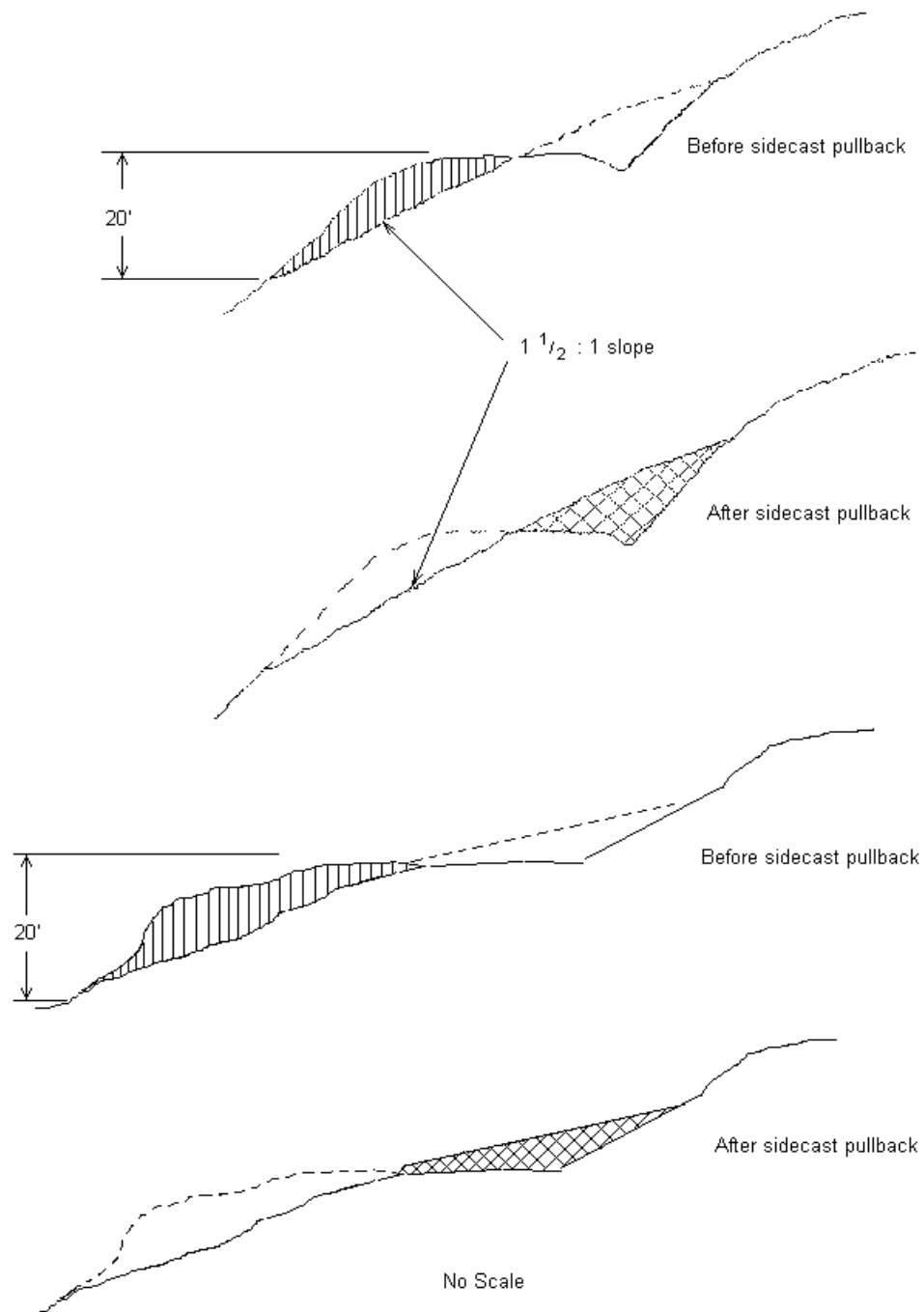


EXHIBIT L

SEEDING AND MULCHING

This work shall consist of preparing seedbeds and furnishing and placing required seed and straw mulch. Straw mulch shall consist of straw that is free of noxious weeds. Apply seed and straw mulch to all waste areas, and bare soils resulting from Project No. 2 and 4 and any skid trails within posted stream buffers.

Seeding Seasons. Seeding shall be performed only from March 1 through June 15 and August 15 through October 31. Seeding materials shall not be applied during windy weather or when the ground is excessively wet or frozen. Areas of disturbed soil shall be seeded by the end of the project period in which work was started.

APPLICATION METHODS FOR SEED

Dry Method. Mechanical seeders, seed drills, landscape seeders, cultipacker seeders, or other approved mechanical seeding equipment shall be used to apply the seed in the amounts and mixtures specified. Hand-operated seeding devices may be used when seed is applied in dry form.

APPLICATION RATES FOR SEED

The seed mixture listed below shall be applied at 100 lbs. per acre. The seed mixture shall be comprised of the following:

| SPECIES       | MIXTURE | PURE LIVE SEED | GERMINATION |
|---------------|---------|----------------|-------------|
| Annual Rye    | 33%     | 95%            | >90%        |
| Orchard Grass | 33%     | 95%            | >90%        |
| Perennial Rye | 34%     | 95%            | >90%        |

Mulching Period. Straw mulch shall be applied within 24 hours of spreading grass seed and fertilizer.

APPLICATION RATES FOR MULCH

Place straw mulch to a reasonably uniform thickness of 1½ to 2½ inches. This rate requires between 2 and 3 tons of dry mulch per acre.

Application Locations: All waste areas and vacating.

## ***PART IV: OTHER INFORMATION***

State Timber Sale Contract  
No. 341-15-36  
Bull Ridge

### **WRITTEN PLAN**

|                                 |           |                                    |                                     |
|---------------------------------|-----------|------------------------------------|-------------------------------------|
| <b>Operator:</b>                | _____     | <b>Landowner:</b>                  | Oregon Department of Forestry (BOF) |
| <b>Notification and Unit #:</b> | 341-15-36 | <b>Operation Name or Vicinity:</b> | Bull Ridge Timber Sale              |

### **STATUTORY WRITTEN PLAN**

A **Statutory Written Plan** is required for any activities that will be within 100 feet of the following resource(s):

**Stream Names:** Gilmore Creek & Unnamed Fish Creek  
**Stream Classification:** Medium Type F & Small Type F  
**Riparian Management Area Width (each side of the stream):**

***Gilmore Creek:*** Stream buffer distance on the west of Gilmore Creek varies from approximately 100 to 130 feet and runs along the eastern boundary of Area 3 for approximately 2,500 feet. No harvest will occur on the east side of the stream during this timber sale.

***Unnamed Fish Creek:*** Stream buffer distance on the east of the unnamed creek varies from approximately 100 to 130 feet and runs along the western boundary of Area 1 for approximately 700 feet. No harvest will occur on the west side of the stream during this timber sale.

**Statutory Written Plan required by:**

ORS 527.670(3)(a) and OAR 629-605-0170(2) for an operation within 100 feet of a Type F or Type D stream.

**Practices:**

Along the above mentioned Type F streams that are adjacent to Areas 1 and 3, as well as all other perennial Type N streams not listed, the following practices are required under the timber sale contract:

- Cable corridors will utilize natural openings to the maximum extent possible.
- No trees will be felled within stream buffers (RMA's), except in cable corridors, and felled trees will be left in the RMA where felled.
- Trees adjacent to the stream buffers (RMA's) will be felled away from or parallel to the streams to prevent trees from entering the aquatic areas.
- No ground based logging equipment will be permitted within the RMA's.

It is anticipated that the only activity conducted within 100 feet of these Type F streams will be hanging logging lines through the riparian area. Logging lines may cross, but will not be lowered into the RMA's during yarding, except during rigging. During rigging the lines must be pulled out of the RMA's when changing corridors.

I, the undersigned, submit this written plan in compliance with the requirements in the Forest Practices Act regarding the operations conducted within 100 feet of Type F streams. I agree to the protection measures listed on this plan:

Submitted: \_\_\_\_\_  
Purchaser/Operator Contract Representative

Date: \_\_\_\_\_



State Timber Sale Contract  
No. 341-15-36  
Bull Ridge

OREGON DEPARTMENT of FISH and WILDLIFE

FISH SCREENING PROGRAM

**SMALL PUMP SCREEN SELF CERTIFICATION**

The Oregon Water Resources Department in coordination and cooperation with the Oregon Department of Fish and Wildlife includes screen requirements on pumps to protect fish as a condition of many surface water and/or reservoir water right permits. This is done in accordance with ORS 537.153.

The Oregon Department of Fish and Wildlife does not usually inspect small pump screens at pumped diversions less than 225 GPM (Gallons per Minute), but furnishes the following fish screening criteria information to the water right permit tee:

**Screen material open area** must be at least 27% of the total wetted screen area.

**Perforated plate:** Openings shall not exceed 3/32 or 0.0938 inches (2.38 mm).

**Mesh/Woven wire screen:** Square openings shall not exceed 3/32 or 0.0938 inches (2.38mm) in the narrow direction, e.g., 3/32 inch x 3/32 inch open mesh.

**Profile bar screen/Wedge wire:** Openings shall not exceed 0.0689 inches (1.75 mm) in the narrow direction.

**Screen area** must be large enough to cause fish impact. Wetted screen area depends on the water flow rate and the water approach velocity. **Approach velocity** is the water velocity perpendicular to and approximately three inches in front of any part of the screen face.

**An Active pump screen** is a self cleaning screen that has a proven cleaning system. The **screen approach velocity for active pump screens** shall not exceed 0.4 fps (feet per second) or 0.12 mps (meters per second). The wetted screen area in square feet is calculated by dividing the maximum water flow rate in cubic feet per second (1 cfs = 449 gpm) by 0.4 fps.

**A Passive pump screen** is a screen that has no cleaning system other than periodic manual cleaning. **Screen approach velocity for passive pump screens** shall not exceed 0.2 fps or 0.06 mps. The wetted screen area in square feet is calculated by dividing the maximum water flow rate by 0.2 fps.

*For further information on fish screening please contact:*

Bernie Kepshire, Oregon Department of Fish and Wildlife,  
7118 NE Vandenberg Avenue, Corvallis, OR 97330-9446 (541) 757-4186 x 255

As evidence of having met fish screen installation requirements, please sign the certification and send to: Oregon Water Resources Department, Water Rights Section, 725 Summer St. NE, Suite A, Salem, OR 97301-1271

**Certification:** I certify that my small pumped diversion of less than 225 gpm meets fish screening criteria, and that I will maintain it to comply with regulatory criteria. I also understand that should fish screening standards change, I may be required to modify my installation to meet applicable standards.

Applicant Signature: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ WRD File #

Printed Name and Address: \_\_\_\_\_

Phone: (\_\_\_\_\_) \_\_\_\_\_

Fax: (\_\_\_\_\_) \_\_\_\_\_

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PUMPCERT.doc

NB: ODFW logo is 129% of logo on HQ mail label

State Timber Sale Contract  
No. 341-15-36  
Bull Ridge

## NOTICE OF TRANSFER OF STATE TIMBER

### Instructions

629:-Form-301-010

Complete Section 1. Mark the box which applies to you/your company in Section 2. Complete Section 3 and obtain signatures.

### SECTION 1

On \_\_\_\_\_, state timber sale purchaser (Transferor)  
\_\_\_\_\_, sold, exchanged or otherwise transferred to  
\_\_\_\_\_, (Transferee) state timber originating from State  
Timber Sale Contract No. \_\_\_\_\_.

Transferee hereby certifies that they:

- (a) Will not export the unprocessed state timber which is the subject of this transaction;
- (b) Will not sell, transfer, exchange or otherwise convey the unprocessed timber which is the subject of this transaction to any other person without first obtaining a like certification from that person; and
- (c) Are not prohibited by OAR's 629-31-005 through 045 from purchasing state timber or logs directly from the State Forester, or this is a sale of Western Red Cedar for domestic processing.

### SECTION 2

- ☐ Have not exported unprocessed timber originating from private lands in Oregon in the last 24 months.
- ☐ This is a sale of hardwood logs for domestic processing.
- ☐ This is a sale of Western Red Cedar for domestic processing.
- ☐ This is a sale of pulp logs or cull logs processed at domestic pulp mills, domestic chip plants or other domestic operations for the purpose of conversion of the logs into chips.

### SECTION 3

The parties understand that falsely entering into this certification, or failure to comply with the terms of this certification is a violation of the Forest Conservation and Shortage Relief Act of 1990 and OAR Chapter 629, Division 31, and is subject to any and all penalties contained therein.

Transferor:

Transferee:

Signed \_\_\_\_\_

Signed \_\_\_\_\_

Title \_\_\_\_\_

Title \_\_\_\_\_

Dated \_\_\_\_\_

Dated \_\_\_\_\_

[Note: For the purpose of this form, the definition of unprocessed timber is the same as in OAR 629-31-005]

Mail To: State Forester  
2600 State Street  
Salem, OR 97310