

PART III: EXHIBITS

State Timber Sale Contract
No. 341-09-42
Outland

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.: 341-09-42

(2) Sale Name: Outland

(3) Contract Expiration Date: October 31, 2010

Project Completion Dates: October 31, 2009

(4) Purchaser: _____

(6) Purchaser Representatives:

Projects: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Projects: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Projects: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Projects: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Logging: _____	Phone: _____	Cell/Other Phone: _____	Home: _____

(7) State Representatives:

Projects: _____	Phone: _____	Cell/Other Phone: _____	Home: _____
Logging: _____	Phone: _____	Cell/Other 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.



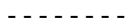
Cable Landing, with numbers for sequence.



Tractor Landing with alphabetical sequence.



Approximate setting boundary.



Spur truck roads.



Tractor yarding roads.



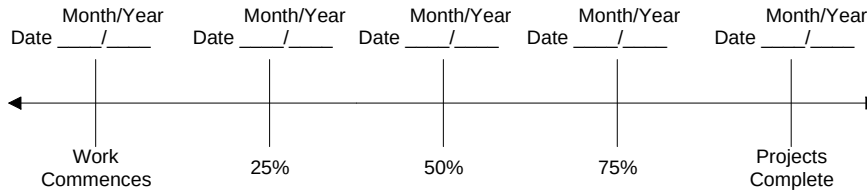
Temporary stream crossings.

EXHIBIT B
OPERATIONS PLAN

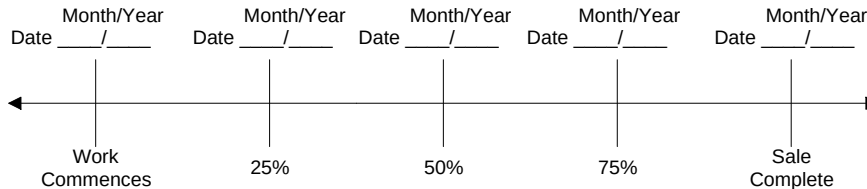
Completion Timeline

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

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 Hwy. 202, Astoria, OR 97103

(4) PURCHASER: _____
Mailing Address: _____
Phone Number: _____

(12) NOTICE OF CANCELLATION OF BRAND:
Effective Date: _____

State Forester's Representative

(13) SALE NAME Outland
COUNTY Clatsop

(14) STATE CONTRACT NUMBER 341-09-42

(15) STATE BRAND REGISTRATION NUMBER _____

(16) STATE BRAND INFORMATION:

(COMPLETE) ↓



(17) PAINT REQUIRED: YES ☒
COLOR Orange

(5) MINIMUM SCALING SPECIFICATIONS			CLASS		
SPECIES	SCALING DIAMETER INCHES	*NET SCALE VOLUME	PER MBF	** SUM	SUB
Conifers		10	X		
Hardwoods		10	X		

* Apply minimum volume test to whole logs over 40' Westside; 20' Eastside.
** Sum (if indicated): see instructions and explain in Item (19).

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

(7) EASTSIDE SCALE: ☐ ☒
Use Region 6 actual taper rule. Logs over 40'.

(8) Weight Scale Sample ☐ ☒
(6) - (8), pink log load receipts

(9) Weight Sale ☐ ☒

(10) Per Load ☐ ☒
(9) and (10), yellow log load receipts

(18) SPECIAL REQUESTS
PEELABLE CULL (all species)
NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE
PENCIL BUCK
ADD-BACK VOLUME - Deductions due to delay
OTHER:

(19) REMARKS All Hardwood logs less than 30 board feet shall be scaled as "Utility". Hardwood logs greater than or equal to 30 net board feet shall be scaled as a sawlog.

Operator's Name (Optional inclusion by District): _____

(20) SIGNATURES:

Purchaser or Authorized Representative _____ Date _____

State Forester Representative _____ Date _____

(11) APPROVED SCALING LOCATIONS	Species	Yard	Truck	Weight

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: ORIGINAL: Salem / COPIES: TPSO, Approved Scaling Location, Purchaser, District, Mgmt. Unit

EXHIBIT C

INSTRUCTIONS FOR FORM 343-307 (rev. 10/08)

- (1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires Item (12). Complete date.
- (2) Designate Third Party Scaling Organization (TPSO).
- (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. Review Section 2040 or 2045, "Log Removal," of the Contract. Species, or combined species can be separate entries. Information serves as a basis for scaling (see also Items (16) thru (18)), and is required to show existence on the sale. **SUM** (lump sum material). **SUB** (submerchantable material). SUB, as used by the State, references that material containing at least 10 bf (net) but less than the lower merchantable net volume limit or grade requirements for other merchantable (Per MBF) entries. Per MBF, SUM, and SUB must be indicated by checking the appropriate column. Species with the same specifications and value are combined into one entry. Per MBF and SUB require scaling therefore complete specifications. SUM need not be scaled, hence no specifications. Loads containing only SUM are to be ticketed if so instructed in Item (19). Mixed loads of SUM, Per MBF and/or subspecies will always be scaled.
- (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) Eastside – Region 6 actual taper/taper table segment scale. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Northwest Log Rules Eastside). Items with * follow U.S. Forest Service Eastside rules.
- (8) 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 (19).
- (9) Weight Sale – Check box if sale is to be sold as a weight sale. Processing procedures from approved locations to TPSO's will be explained in the Remarks section of Item (19).
- (10) Per Load – Check box if volumes on sale are per load. Specific instructions for handling and processing will be fully explained in the Remarks section of Item (19).
- (11) 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 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.
- (12) When logging and hauling is complete, recall branding hammers, date and sign where indicated, check CANCELLATION box in Item (1), and send to TPSO.
- (13) Enter sale name and county
- (14) Enter sale Contract number.
- (15) Enter Oregon's State Brand Registry Number (required).
- (16) Show brand assigned to timber sale. One brand only. If more than one brand is assigned to the sale: (1) make separate form for each brand and (2) on each form, explain and show other brand(s) in the Remarks section Item (19).
- (17) Check yes for Paint Required and designate "Orange" for color. Non required removal volumes may sometimes require blue paint.
- (18) Special Requests. These are requests that will be applied to ODF timber sales. If "Other" is indicated, it must contain a description and any necessary comments.
- (19) Use this space to designate any weight conversion factors, per load volumes, weight scale sample instructions or any other explanations to clarify scaling or processing requirements. If additional scaling locations are approved, prepare another form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.
- (20) Require purchaser to sign and date completed form.

EXHIBIT D
FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DRAINAGE
16 feet	12 feet	I1 to I2	0+00 to 3+94	Ditch
16 feet	12 feet	I3 to I4	0+00 to 4+93	Ditch
16 feet	12 feet	I5 to I6	0+00 to 12+33	Ditch
16 feet	12 feet	A to B	12+33 to 24+97	Ditch
16 feet	12 feet	3A to 3B	0+00 to 6+00	Ditch
14 feet	12 feet	3A to 3B	6+00 to 12+60	Outslope
16 feet	12 feet	3A to 3B	12+60 to 17+75	Ditch
14 feet	12 feet	3A to 3B	17+75 to 26+00	Outslope
14 feet	12 feet	3C to 3D	0+00 to 2+50	Outslope

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. Do not place clearing and grubbing debris on side slopes exceeding 50 percent. 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-engineered lines, grades, dimensions, and plans when provided.

All suitable excavated material shall be used where possible 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. All fills and drainage structure backfills shall be machine compacted according to the specifications in Exhibit D.

Unless road design 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.

Excess excavation shall not be sidecast where material will enter a stream course or where material will accumulate in areas deemed a high landslide hazard location by STATE.

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 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 ($\frac{1}{2}$ inch per foot).

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

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

Outslope. Road subgrade shall be outsloped at 4 to 6 percent.

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.

GRADING

	<u>Back Slopes</u>	<u>Fill Slopes</u>
Rock	Vertical to $\frac{1}{4}$:1	Not steeper
Common - side slopes 50% and over	$\frac{3}{4}$:1	than $1\frac{1}{2}$:1
Common - side slopes less than 50%	1 :1	
Common - turnpike (level) section	2 :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. Surface is to be crowned for drainage, with general grade no more than 3 percent. Surface as shown on Exhibit D.

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

SEASONAL WINTERIZATION. All unrocked roads or unfinished subgrades shall be waterbarred in accordance with 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) Excavated Materials. Excavated materials shall be utilized for road construction and hauled in where necessary. 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 Exhibit D.
- (2) Fill Armor and Energy Dissipator Construction. Where rock is specified for fill armor, rock shall be placed and tamped at a 1½:1 slope, beginning at the fill toes. 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 L.
- (3) Equipment. All excavation and riprap placement shall be performed using a minimum 1½ cubic-yard, track-mounted excavator.
- (4) 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 (½ inch per foot).
 - (c) Upon completion of above required work, apply, process, and compact surfacing rock in accordance with specifications in Exhibit D. Final road surface shall be crowned at 4 to 6 percent (½ inch per foot).

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

<u>Segment</u>	<u>Station</u>	<u>Work Description:</u>
A to B	12+33	End Improvement of I5 to I6. Point A. Begin new construction.
	14+33	Install 18" x 40' CPP.
	15+83	Begin construction of turnout left.
	19+83	Begin construction of turnout left.
	21+08	Install 18" x 35' CPP.
	23+89	End new construction. Blend vertical alignment with existing road.
	24+97	Point B. End alignment blending.

EXHIBIT D
FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD CONSTRUCTION INSTRUCTIONS

<u>Segment</u>	<u>Station</u>	<u>Work Description</u>
3A to 3B	0+50	Install 18" x 30' CPP
	3+50	Install 18" x 30' CPP
	6+30	Begin construction of turnout left.
	9+00	Construct Landing 4ight.
	12+60	Begin construction of turnout left.
	14+75	Install 18" x 30" ACSP
	18+50	Begin construction turnout/ turnaround left.
	23+30	Begin construction turnout/ turnaround right.

EXHIBIT D

FOREST ROAD SPECIFICATIONS

GENERAL ROAD IMPROVEMENT INSTRUCTIONS

- (1) Excavated Materials. Excavated materials shall be utilized for road and fill construction and hauled in where necessary. Surplus excavation materials shall be hauled to the waste areas as marked in the field and/or designated on Exhibit A. Waste materials shall be sloped and compacted for drainage. Fills shall be thoroughly compacted in accordance with Exhibit D.
- (2) Culvert Replacement, Culvert Installation, Fill Reconstruction, and Fill Removal. Existing culvert geometry shall be modified to provide for optimum drainage and culvert performance. Modifications may include, skewing the culvert and/or installing the culvert at gradients equal to or exceeding the drainage or ditch gradient. Where fill reconstruction or culvert replacement is specified, fills shall be excavated to natural stream course levels. All woody debris encountered during fill excavation shall be removed. All waste materials shall be hauled to nearby waste areas and shall be uniformly sloped and compacted for drainage. Waste materials shall be seeded and mulched in accordance with specifications in Exhibit K. Fill reconstruction backfill shall consist of select materials and may be obtained from borrow pits, as directed by STATE. Backfill materials shall be hauled in where necessary and thoroughly compacted in accordance with Exhibit D. Crushed rock shall be used for backfilling excavation trenches less than 3 feet deep. STATE may require the use of crushed rock for culvert bedding. Removed culverts shall be hauled to an approved refuse site off of STATE land.
- (3) Drainage Ditches. Restore or construct ditchlines, including ditchouts, as directed by STATE. Clean out all culvert inlets and outlets for a 10-foot radius. Re-establish or construct culvert sediment basins. Waste materials from drainage ditches and sediment basins shall not be pulled across existing surfacing rock, but shall be placed in nearby waste areas and uniformly sloped and compacted for drainage, as directed by STATE. Damaged culvert inlets and/or outlets shall be repaired by opening them with a hydraulic jack, or cutting off the culvert end to allow for free passage of water at peak flow levels. Install a culvert marker at each newly installed culvert and at each existing culvert that is missing a marker that could be reached by a grader blade.
- (4) Riprap Rock Use: Where rock is used for fill armor, rock shall be placed and tamped at a 1½ : 1 slope, beginning at the fill toes. When 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 L.
- (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, fill reconstruction, ditchouts, and other specified work prior to the application of new surfacing rock.
 - (b) Cut out all potholes and/or washboard sections from the existing surfacing.
 - (c) Apply required patching and leveling rock, as directed by STATE.
 - (d) Process (grade and mix) the existing surface and added base rock. Provide for a crown of ½ inch per foot in road width (4 to 6 percent), and compact in accordance to Exhibit D.
 - (e) Upon completion of above required work, apply, process, and compact surfacing rock in accordance to Exhibit D.

EXHIBIT D

FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

<u>Segment</u>	<u>Station</u>	<u>Work Description:</u>
I1 to I2	0+00	Point I1.
	0+11	Culvert replacement. Utilize 15 cubic yards of ¾"-0" crushed rock for bedding and backfill.
	0+16	Construct turnout left.
	0+27	Begin 100 foot radius curve with 4 feet of curve widening.
	1+49	End 100 foot radius curve with 4 feet of curve widening.
	1+85	North edge of Open Bottom Concrete Box Culvert to be installed as specified in Exhibit H. Concrete box culvert span shall be 14 feet, deck width 25 feet, with a rise of 10.7 feet. Finished road surface width shall be 16 feet.
	1+99	South edge of Open Bottom Concrete Box Culvert.
	2+21	Begin 80 foot radius curve with 5 feet of curve widening.
	3+09	End 80 foot radius curve with 5 feet of curve widening.
	3+54	Culvert replacement. Utilize 15 cubic yards of ¾"-0" crushed rock for bedding and backfill. Utilize 10 cubic yards of 24"-6" riprap for energy dissipator.
	3+66	Start turnout construction to transition smoothly into existing turnout.
	3+94	Point I2.
I3 to I4	0+00	Point I3.
	1+40	Culvert replacement. Utilize 12 cubic yards of ¾"-0" crushed rock for bedding and backfill. Utilize 12 cubic yards of 24"-6" riprap for energy dissipator.
	2+02	Begin construction of 75 foot radius curve with 5.3 feet of curve widening.
	2+75	Begin 2 feet of fill widening to the outside edge of the fill only.
	2+89	East edge of Open Bottom Concrete Box Culvert to be installed as specified in Exhibit H. Concrete box culvert span shall be 12 feet, deck width 25 feet, with a rise of 10 feet. Finished road surface width shall be 19.3 feet.
	3+01	West edge of Open Bottom Concrete Box Culvert.
	3+20	End 2 feet of fill widening to the outside edge of the fill.

EXHIBIT D
FOREST ROAD SPECIFICATIONS

SPECIFIC ROAD IMPROVEMENT INSTRUCTIONS

<u>Segment</u>	<u>Station</u>	<u>Work Description:</u>
I3 to I4	3+77	End construction of 75 foot radius curve with 5.3 feet of curve widening.
	4+57	Culvert replacement. Utilize 12 cubic yards of ¾"-0" crushed rock for bedding and backfill. Utilize 12 cubic yards of 24"-6" riprap for energy dissipator.
	4+93	Point I4. End road improvement. Blend improvement ending with existing turnout right.
I5 to I6	0+00	Widen west curve edge by 5 feet as directed by STATE. Remove 3 marked trees (designated timber) and their stumps. Backfill stump holes as directed by STATE. Reshape cutslope as directed by STATE.
	0+20	Remove and dispose of old 15" culvert. Backfill with ¾"-0" and 4"-0" crushed rock as directed by STATE. Repair road as directed by STATE.
	0+54	Remove and dispose of old 18" culvert. Backfill with ¾"-0" and 4"-0" crushed rock as directed by STATE. Repair road as directed by STATE. Construct ditchout across existing road at the junction as directed by STATE.
	9+33	Existing culvert. Clean culvert barrel and catch basin per general road improvement instructions.
	12+33	Point I6. End road improvement. Begin new construction at Point A.
I7 to I8	0+00	Begin application of surface rock.
	0+75	Turnout right.
	5+80	Turnout left.
	12+50	Level subgrade by cutting out vertical curve and apply base rock.
	13+50	Turnout right.
	21+00	Turnout right.
	25+00	End surface rock at point I8/3B.

EXHIBIT D
END-HAULING REQUIREMENTS

POINT TO POINT	STA. TO STA.	CONTAINMENT	WASTE AREA LOCATION	WASTE AREA TREATMENT
I1 to I2	0+00 to 3+94	1	1	1, 2, and 3
I3 to I4	0+00 to 4+93	1	2	1, 2, and 3

End-Haul Areas General Requirements

Material shall not be intentionally side cast.

Clearing and grubbing debris shall be end-hauled.

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

Containment

- (1) Full containment: The amount of material lost over the outside edge of the road shall not exceed 6 inches in depth measured perpendicular to the natural ground slope. Pioneer excavation shall be removed by digging, loading, and hauling rather than by pushing or scraping methods.
- (2) Average containment: The amount of material lost over the outside edge of the road shall not exceed 12 inches in depth measured perpendicular to the natural ground slope.

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

- (1) Waste Area 1 as shown on Exhibit A and as marked in the field.
- (2) Waste Area 2 as shown on Exhibit A and as marked in the field.

Waste Area Treatment

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

EXHIBIT D

ROAD SURFACING

ROAD SEGMENT: A to B				POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)
Application	Rock Size and Type	Location	Depth of Rock (inches)	A to B		12+33 to 24+97		
				Volume (CY) Per		Number of		
Base Rock	4"-0" crushed	12+33 - 23+89	9	station	49	stations	11.56	566
Turnouts	4"-0" crushed	12+33 - 23+89	9	turnout	22	turnouts	3	66
Curve Widening	4"-0" crushed	12+33 - 23+89	9	curve	4	curves	3	12
Junction Rock	4"-0" crushed	12+33 - 23+89	9	junction	10	junctions	1	10
Surface Rock	3/4"-0" crushed	12+33 - 23+89	4	stations	22	stations	12	254
Turnouts	3/4"-0" crushed	12+33 - 23+89	4	turnout	10	turnouts	3	30
Curve Widening	3/4"-0" crushed	12+33 - 23+89	4	curve	2	curves	3	6
Junction Rock	3/4"-0" crushed	12+33 - 23+89	4	junction	5	junctions	1	5
Total Rock for Road Segment:			A to B					950

ROAD SEGMENT: 3A to 3B				POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)
Application	Rock Size and Type	Location	Depth of Rock (inches)	3A to 3B		0+00 to 26+00		
				Volume (CY) per		Number of		
Base Rock	4"-0" crushed	0+00-26+00	9	station	49	stations	26.00	1,274
Junctions	4"-0" crushed	0+00	N/A	junction	20	junctions	1	20
Turnouts	4"-0" crushed	6+30, 12+60, 18+50, 23+30	N/A	turnout	10	turnouts	4	40
Turnarounds	4"-0" crushed	18+50, 23+30	N/A	turnaround	10	TA's	2	20
Traction Rock	3/4"-0" crushed	0+00-5+00, 12+00 19+00	2	station	11	stations	12	132
Landings	6"-0" pit-run	9+00, 26+00	N/A	Landing	60	Landings	2	120
Total Rock for Road Segment:			3A to 3B					1,606

ROAD SEGMENT: 3C to 3D				POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)
Application	Rock Size and Type	Location	Depth of Rock (inches)	3C to 3B		0+00 to 2+50		
				Volume (CY) per		Number of		
Base Rock	4"-0" crushed	0+00-2+50	9	station	49	stations	2.50	123
Junctions	4"-0" crushed	0+00	N/A	junction	20	junctions	1	20
Traction Rock	¾"-0" crushed	0+00-2+50	N/A	station	11	stations	3	28
Landing	6"-0" pit-run	2+50	N/A	Landing	60	Landings	1	60
Total Rock for Road Segment:			3C to 3B					230

EXHIBIT D
ROAD SURFACING

ROAD SEGMENT: I1 to I2				POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)
Application	Rock Size and Type	Location	Depth of Rock (inches)	I1 to I2		0+00 to 3+94		
				Volume (CY) Per		Number of		
Base Rock	4"-0" crushed		9"	station	49	stations	3.94	193
Curve Widening	4"-0" crushed		9"	curves	20	curves	2	40
Turnouts	4"-0" crushed		9"	station	22	turnouts	1.5	33
Select back fill	4"-0" crushed							371
Box culvert cobble	4"-0" crushed							20
Fill widening	4"-0" crushed		9"					10
Footings	¾"-0" crushed							20
Deck surface	¾"-0" crushed							62
Surface Rock	¾"-0" crushed		4"	station	22	stations	3.94	87
Turnouts	¾"-0" crushed		4"	turnout	10	turnouts	1.5	15
Curve Widening	¾"-0" crushed		4"	curves	9	curves	2	18
Bedding/Backfill	¾"-0" crushed			culvert	15	culverts	2	30
Fill widening	¾"-0" crushed		4"					5
Fill armor	24"-6" riprap							287
Channel armor	24"-6" riprap							50
Dissipaters	24"-6" riprap	sta. 3+54		dissipator	12	dissipaters	1	12
Total Rock for Road Segment:			I1 to I2					1,253

ROAD SEGMENT: I3 to I4				POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)
Application	Rock Size and Type	Location	Depth of Rock (inches)	I3 to I4		0+00 to 4+93		
				Volume (CY) Per		Number Of		
Base Rock	4"-0" crushed		9"	station	49	stations	4.81	236
Curve Widening	4"-0" crushed		9"	curve	49	curves	1	49
Fill widening	4"-0" crushed		9"					10
Select back fill	4"-0" crushed							205
Footings	¾"-0" crushed							20
Deck surface	¾"-0" crushed							40
Surface Rock	¾"-0" crushed		4"	station	22	stations	4.81	106
Curve Widening	¾"-0" crushed		4"	curve	22	curves	1	22
Bedding/Backfill	¾"-0" crushed			culvert	12	culverts	2	24
Fill widening	¾"-0" crushed							5
Fill armor	24"-6" riprap							108
Channel armor	24"-6" riprap							96
Dissipaters	24"-6" riprap		N/A	dissipator	12	dissipaters	2	24
Total Rock for Road Segment:			I3 to I4					945

EXHIBIT D
ROAD SURFACING

ROAD SEGMENT: I5 to I6				POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)
Application	Rock Size and Type	Location	Depth of Rock (inches)	I5 to I6		0+00 to 12+33		
				Volume (CY) Per		Number of		
Leveling Rock	4"-0" crushed		9					50
Junction Widening	4"-0" crushed		9	station		stations		5
Old culverts removed	4"-0" crushed		N/A	culvert		culverts		15
Surface Rock	¾"-0" crushed		4	station	22	stations	12.33	271
Turnouts	¾"-0" crushed		4	turnout	10	turnouts	2	20
Junction Widening	¾"-0" crushed		4					3
Old culverts removed	¾"-0" crushed		N/A	junction		junctions		9
Total Rock for Road Segment:				I5 to I6				373

ROAD SEGMENT: I7 to I8				POINT TO POINT		Sta. to Sta.		TOTAL VOLUME (CY)
Application	Rock Size and Type	Location	Depth of Rock (inches)	I7 to I8		0+00 - 25+00		
				Volume (CY) per		Number of		
Surface Rock	1 1/2"-0"		3	station	16	stations	25.0	400
Leveling Rock	4"-0"	12+50	N/A	N/A	10	N/A	4	40
Turnouts	1 1/2"-0"		3	TO	12	TO,s	4	48
Total Rock for Road Segment:			I7 to I8					488

ROCK TOTALS (CY)	24"-6"	6"-0"	4"-0"	1 1/2"-0"	3/4"-0"
5,845	577	180	3,428	448	1,212

Roads shall be uniformly graded 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 sediments will not enter streams.

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 600 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. If additional rock is required because of insufficient depth, it shall be added by truck measure to those areas that were slighted. The conversion from compacted yardage to truck yardage is 1.3 multiplied by the compacted yardage equals truck yardage.

The depth of compacted aggregates shall not vary more than 1 inch from the depth specified in Exhibit D. The average depth for each road segment shall be the specified depth or greater. Surfacing areas shall be staked 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

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 visible deformation ceases, or in the case of a sheepsfoot roller, the roller "walks out." At least 3 passes shall be made over the entire width and length of the road. A pass is defined as traveling a road section in one direction and then back over that same section again. 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 unless otherwise specified.

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 or, in the case of a sheepsfoot roller, the roller "walks out." At least 3 passes shall be made over the entire width and length of each layer. A pass is defined as traveling a fill layer in one direction and then back over that same layer again.

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, or 3; and 4

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. A pass is defined as traveling a road section in one direction and then back over that same section again. 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 unless otherwise specified.

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 or sheepsfoot 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. All 18 inch diameter culverts shall be constructed of corrugated double-walled polyethylene, or corrugated aluminized steel. Polyethylene culverts shall meet the requirements of AASHTO M-294-901, Type S. This specification applies to high density polyethylene corrugated pipe with an integrally formed smooth interior. Aluminized steel culverts shall be constructed of corrugated aluminized Type 2 steel. All culverts shall conform to the material and fabricating requirements of the "Standard Specifications for Highway Construction" prepared by the Highway Division of the Oregon State Department of Transportation. Corrugation types and shapes other than those meeting the above minimum Highway requirements, shall be approved in writing by STATE.

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 stipulated in special instructions.

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

Culvert grade shall slope away from ditch grade at least 2 percent unless otherwise specified.

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 pipe. The culvert trench shall be excavated 3 pipe diameters wide to Permit compaction and working on each side of the pipe. Tamping shall be done in 6-inch lifts, 1 pipe diameter each side of the pipe to 95 percent density or over. Bedrock shall be excavated as required to provide a uniform foundation for the full length of the culvert.

A bedding of granulated material or 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 pipe.

Backfill shall consist of granulated material, crushed rock, or job-excavated soil free of stumps, limbs, rocks, or other objects which would damage the pipe.

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

Joining shall be done with bands of like material and corrugations. Manufacturers' instructions shall be followed for prefabricated pipe assembly.

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

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

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.

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

Dia.	Steel Pipe Gauge	Band Gauges	Band Widths ("")			Hugger Band Widths ("")	
			Annular	Helical	Dimpled	Annular	Helical
12-15	16 (0.0598")	16	7	12	12	13 1/8	10 1/2
18-24	16 (0.0598")	16	12	12	12	13 1/8	10 1/2
30-36	16 (0.0598")	16	12	12	12	13 1/8	10 1/2
42	14 (0.0747")	16	12	12	NA	13 1/8	10 1/2
48	14 (0.0747")	16	24	24	NA	13 1/8	10 1/2
54	14 (0.0747")	16	24	24	NA	13 1/8	10 1/2
60	12 (0.1046")	16	24	24	NA	13 1/8	10 1/2
66-72	12 (0.1046")	16	24	24	NA	13 1/8	10 1/2
78	12 (0.1046")	16	24	24	NA	13 1/8	10 1/2
84	12 (0.1046")	16	24	24	NA	14 3/4	10 1/2
90-120	12 (0.1046")	16	26	26	NA	NA	NA

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

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

Tamping is required.

All removed culverts shall be hauled to an approved refuse site off of STATE land.

The intake ends of culverts in fills less than 3 feet 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 2 ½ inches wide, with the spade driven 2 feet into the ground.

EXHIBIT E
CULVERT LIST

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	MATERIAL TYPE	ROAD SEGMENT POINT TO POINT	STATION
1	18"	40'	CPP	I1 to I2	0+11
2	10.7' x 14'	25'	Concrete	I1 to I2	1+85 to 1+99
3	18"	40'	CPP	I1 to I2	3+54
4	18"	35'	CPP	I3 to I4	1+40
5	10' x 12'	25'	Concrete	I3 to I4	2+89 to 3+01
6	18"	35'	CPP	I3 to I4	4+57
7	18"	35'	CPP	A to B	14+33
8	18"	35'	CPP	A to B	21+08
9	18"	30'	CPP	3A to 3B	0+50
10	18"	30'	CPP	3A to 3B	3+50
11	18"	30'	ACSP	3A to 3B	14+75

ACSP = Aluminized, CPP = Polyethylene, Concrete = Open Bottom Concrete Box Culvert As Specified In Exhibit H.

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) 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.
- (4) PURCHASER shall conduct the operation relative to the disposal of waste material in such manner that silt, rock, debris, dirt, or clay shall not be washed, conveyed, or otherwise deposited in any stream.
- (5) Quarry face shall be developed in a uniform manner.
- (6) Benches shall be maintained 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 degrees or less. Said bench shall be easily accessible with tractors.
- (7) Proper winterization and storm-water control measures such as water barring, drainage, utilization of filter bales, mulching and/or blocking access shall be utilized and such measures maintained to protect the watershed and project work, as directed by STATE.
- (8) All quarry backslopes shall be left in a stable condition.
- (9) 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.
- (10) 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.
- (11) Apply seed and mulch to the waste area, as specified in Exhibit K.

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Outland

EXHIBIT G

RIPRAP SPECIFICATIONS

For 12"-6" Riprap A minimum of 50 percent of the material shall measure a minimum of 12 inches, measured in one dimension. Material shall be by visual inspection by STATE.

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

TYPE F STREAM CROSSING STRUCTURE SPECIFICATIONS

PURCHASER shall design and install two Type F structures. Both will be PURCHASER designed open bottom concrete box culverts.

GENERAL TYPE F CONSTRUCTION SPECIFICATIONS

- (a) Must allow free passage of fish as provided in the Oregon Forest Practice Rules. Modifications of the existing culvert geometry and existing stream channel may be required to allow free passage of fish.
- (b) Work shall be conducted only during periods of low water flows and between July 15 and September 15, annually. STATE shall be notified a minimum of 48 hours prior to beginning the work. STATE has prepared FPA "Written Plans" for this work.
- (c) Remove the existing embankment and culvert to accommodate the work area for stream crossing construction. Existing embankment(s) shall be excavated to the natural stream course level. All woody debris encountered during excavation shall be removed.
- (d) Excavated debris and materials unsuitable for embankment construction shall be end hauled to the designated waste area, as directed by STATE. The existing, removed culvert, shall be hauled to an approved refuse site off of STATE land.
- (e) Waste materials shall be sloped for drainage and stability, as directed by STATE. Prior to hauling waste materials, the waste area shall be cleared of large woody debris. The debris shall be piled adjacent to the waste area. All exposed excavation areas and waste materials shall be mulched with straw. Applied mulch shall be a minimum of 2 inches deep and provide a uniform cover. Large woody debris shall be redistributed over the waste area after all waste materials have been hauled.
- (f) Oil spill response materials shall be on site before the work begins.
- (g) A minimum 2 cubic-yard, track-mounted excavator shall be used for all excavation, stream channel development, and riprap placement. Use of an on-site hydraulic rock hammer may be required for the breaking of rock strata encountered during the development of footing foundations.
- (h) Grass seed and straw mulch shall be applied to all exposed areas, bare soils and waste materials in accordance with Exhibit K.
- (i) De-watering of the work site shall be accomplished according to PURCHASER'S STATE approved plan and prior to the removal of any additional fill material for the development of the culvert bed, footing pad, and stream channel. The work site shall be de-watered by the use of cofferdams, pumps, temporary diversion ditches and/or drainage structures.
- (j) Remove existing fill, culvert, and any logs or woody debris.

EXHIBIT H

TYPE F STREAM CROSSING STRUCTURE SPECIFICATIONS

OPEN BOTTOM CONCRETE BOX CULVERT CONSTRUCTION INSTRUCTIONS

PURCHASER shall design and construct two open bottom concrete box culverts that are sufficient to provide a natural stream channel width of 14 feet on road segment I1 to I2 (Station 1+92) and 12 feet on road segment I3 to I4 (station 2+95).

These specifications require a fully engineered prefabricated concrete open bottom box culvert of pre-cast conventionally reinforced concrete construction. Structural members shall be designed in accordance with AASHTO LRFD Bridge Design Specifications, 1998 (Modified). Welding and weld procedure qualification tests shall conform to the provisions of ANSI/AWS D1.1 "Structural Welding Code", 1996 Edition and/or CWB – CSA W59. The structure shall be designed for HS25 vehicle loads with occasional U80 vehicle overload allowance, and up to 45 inches of crushed rock loading on the deck. The design shall be prepared by a Professional Engineer licensed in Oregon and approved by STATE.

The stream crossing structures shall accommodate the alignment of road improvement segment I1 to I2, and I3 to I4 respectively. STATE has performed a site survey for the purposes of displaying the road and stream locations, elevations, Footing plan, and Armor/Riprap plan. Retaining curbs shall be designed to accommodate and retain roadway embankments. Footings shall extend a minimum of 2 feet below the predicted natural stream bottom elevations and prevent the scour of any substructure, footing or roadway embankment. Riprap rock shall be utilized to armor and protect road approach embankments.

GENERAL INSTRUCTIONS

- (a) Fill reconstruction backfill shall consist of select onsite materials and 4"-0" crushed rock as directed by STATE. Backfill shall be compacted as specified in Exhibit D.
- (b) All leg and deck joints are to be filled with non-shrink grout. Remaining joints shall be sealed and filled with a construction sealant to prevent material from entering the stream.
- (c) PURCHASER'S engineer to provide STATE with bottom of footing coordinates for each footing corner. Engineer will pin each corner prior to footing placement.
- (d) PURCHASER'S engineer shall use Total Station type survey instrument to establish the location and elevations of Box Culvert footings. Engineer shall verify that placed footing elevations are consistent with approved plans prior to Box Culvert component placement.
- (e) PURCHASER shall submit a site specific de-watering plan which provides for 24 hour de-watering from the time of the removal of the existing culvert until the placement of the concrete open bottom slab components.

PROJECT PLANS. PURCHASER shall submit plans to STATE for approval, prior to commencement of any work on the project. The plans shall include design calculations, scaled drawings, elevations and section drawings for the structure, including sizes and dimensions of components. The plans shall also include a description of special tools, equipment, the required lifting capacity and the general process to install and connect the components. Plans must contain erosion control measures, site de-watering measures and all information necessary for the administration and inspection of the project by STATE. The plans shall be stamped and signed by a professional engineer licensed in Oregon.

EXHIBIT H

TYPE F STREAM CROSSING STRUCTURE SPECIFICATIONS

SPECIFIC CONSTRUCTION INSTRUCTIONS

BIG NOISE CREEK STRUCTURE – (I1 to I2) Station 0+00 to 3+94

- (a) Construct stable foundation bases for footings and back walls by utilizing a minimum of 20 cubic yards of ¾"-0" crushed rock enclosed in geotextile fabric and compacted per Exhibit D specifications.
- (b) Utilize a minimum of 287 cubic yards of 24"-6" riprap rock for embankment armor. Riprap shall be placed and tamped at a 1½:1 slope for a minimum thickness of 3 feet, beginning at the fill toes.
- (c) Utilize on site cobble as directed by STATE to construct new stream channel. After onsite cobble has been utilized any remaining material needed shall be 4"-0" crushed rock.
- (d) As directed by STATE, apply, process, and compact surfacing rock in accordance with Exhibit D. Utilize a minimum of 62 cubic yards of ¾"-0" crushed surface course rock to provide for a minimum road running surface width of 16 feet and to provide for a smooth and uniform transition from the improved roadway across the structure. Surface course rock shall slope at 1½:1 to the box culvert curb. Concrete box culvert curb shall project at least 8 inches beyond the toe of the road surfacing material placed on the deck.
- (e) Construct a concrete open bottom slab culvert which spans 14 feet and has a 10.7 foot rise, on a 20° skew, and the approach embankments in accordance with approved plans. The approach embankments shall consist of 4"-0" crushed rock and/or select materials, hauled in where necessary. Embankment materials shall be thoroughly compacted in accordance with Exhibit D.
- (f) Develop stream channel for 35 feet up stream and 45 feet down stream. Utilize 50 cubic yards of 24"-6" riprap for stream bank armor.

ROCK CREEK STRUCTURE – (I3 to I4) Station 0+00 to 4+93

- (a) Construct stable foundation bases for footings and back walls by utilizing a minimum of 20 cubic yards of ¾"-0" crushed rock enclosed in geotextile fabric and compacted.
- (b) Utilize a minimum of 108 cubic yards of 24"-6" riprap rock for embankment armor. Riprap shall be placed and tamped at a 1½:1 slope for a minimum thickness of 3 feet, beginning at the fill toes. 12"-6" armor shall be placed on the box culvert deck/curb edge as directed by STATE.
- (c) Utilize on site cobble as directed by STATE to construct new stream channel. After onsite cobble has been utilized any remaining material needed shall be 4"-0" crushed rock.
- (d) As directed by STATE, apply, process, and compact surfacing rock in accordance with Exhibit D. Utilize a minimum of 40 cubic yards of ¾"-0" crushed surface course rock to provide for a minimum road running surface width of 19.3 feet and to provide for a smooth and uniform transition from the improved roadway across the structure. Surface course rock shall slope at 11/4:1 to the box culvert curb. Concrete box culvert curb shall project at least 8 inches beyond the toe of the road surfacing material placed on the deck.

EXHIBIT H

TYPE F STREAM CROSSING STRUCTURE SPECIFICATIONS

SPECIFIC CONSTRUCTION INSTRUCTIONS

- (e) Construct a concrete open bottom slab culvert which spans 12 feet and has a 10 foot rise, on a 15° skew, and the approach embankments in accordance with approved plans. The approach embankments shall consist of suitable onsite material approved by STATE, and 4"-0" crushed rock hauled in where necessary. Embankment materials shall be thoroughly compacted in accordance with Exhibit D.
- (f) Develop stream channel for 60 feet up stream and 35 feet down stream. Utilize 96 cubic yards of 24"-6" riprap for stream bank armor. Utilize onsite cobble for streambed development.

The Engineer shall supervise and inspect the construction work and issue STATE written certification upon completion of the project.

EXHIBIT H
BIG NOISE SITE PLAN

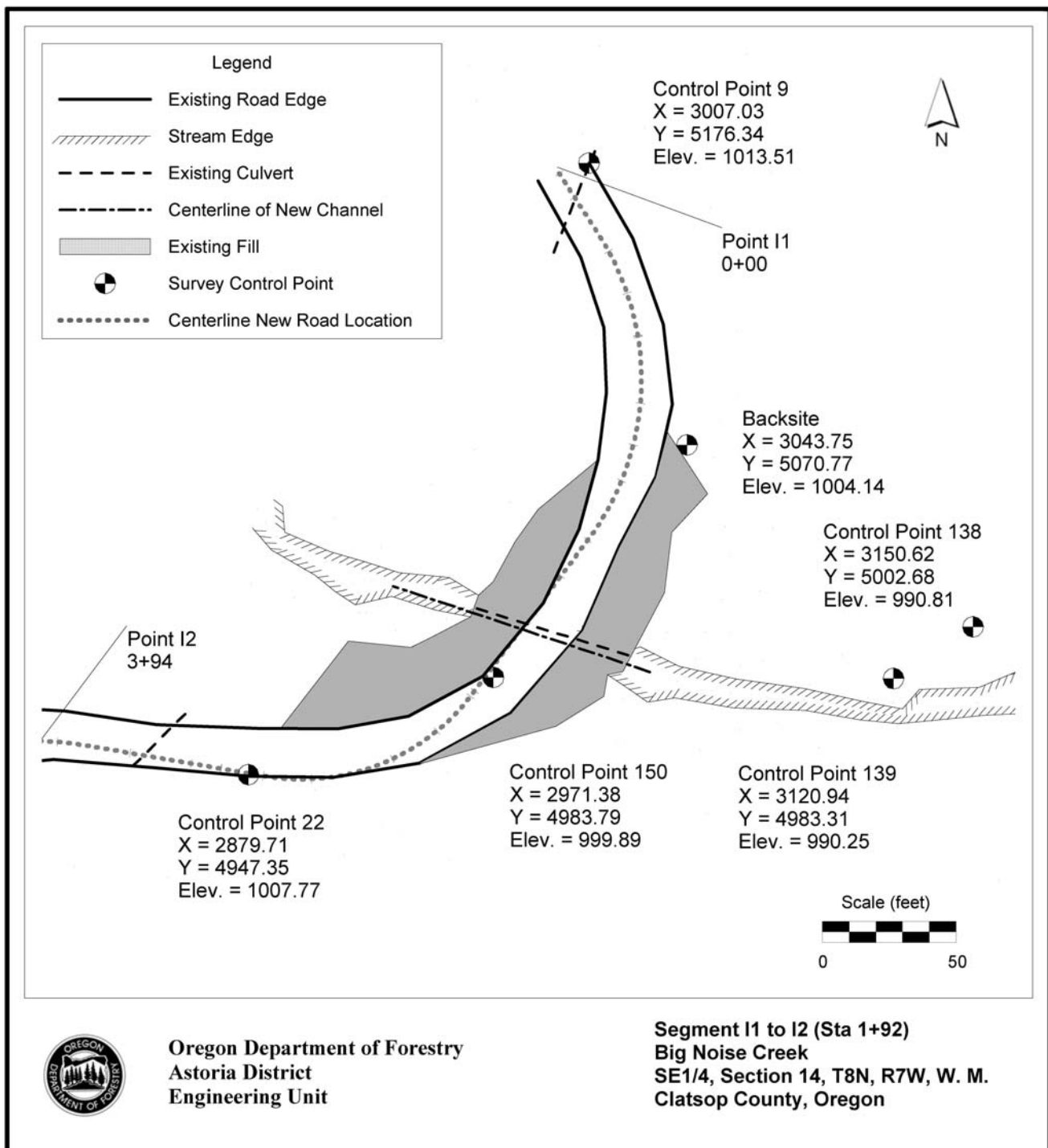


EXHIBIT H

BIG NOISE PROFILE VIEW

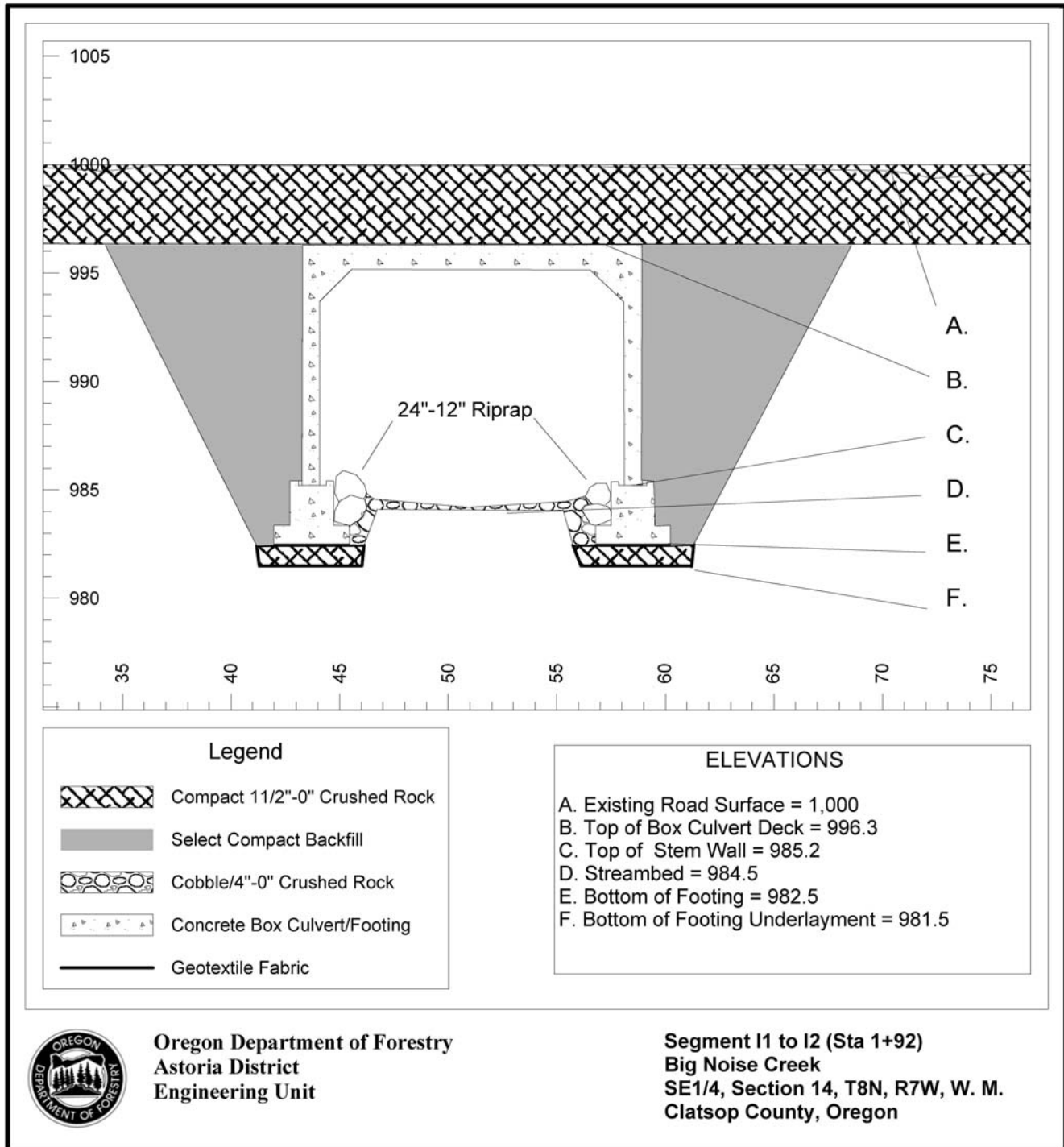


EXHIBIT H
BIG NOISE FOOTING PLAN

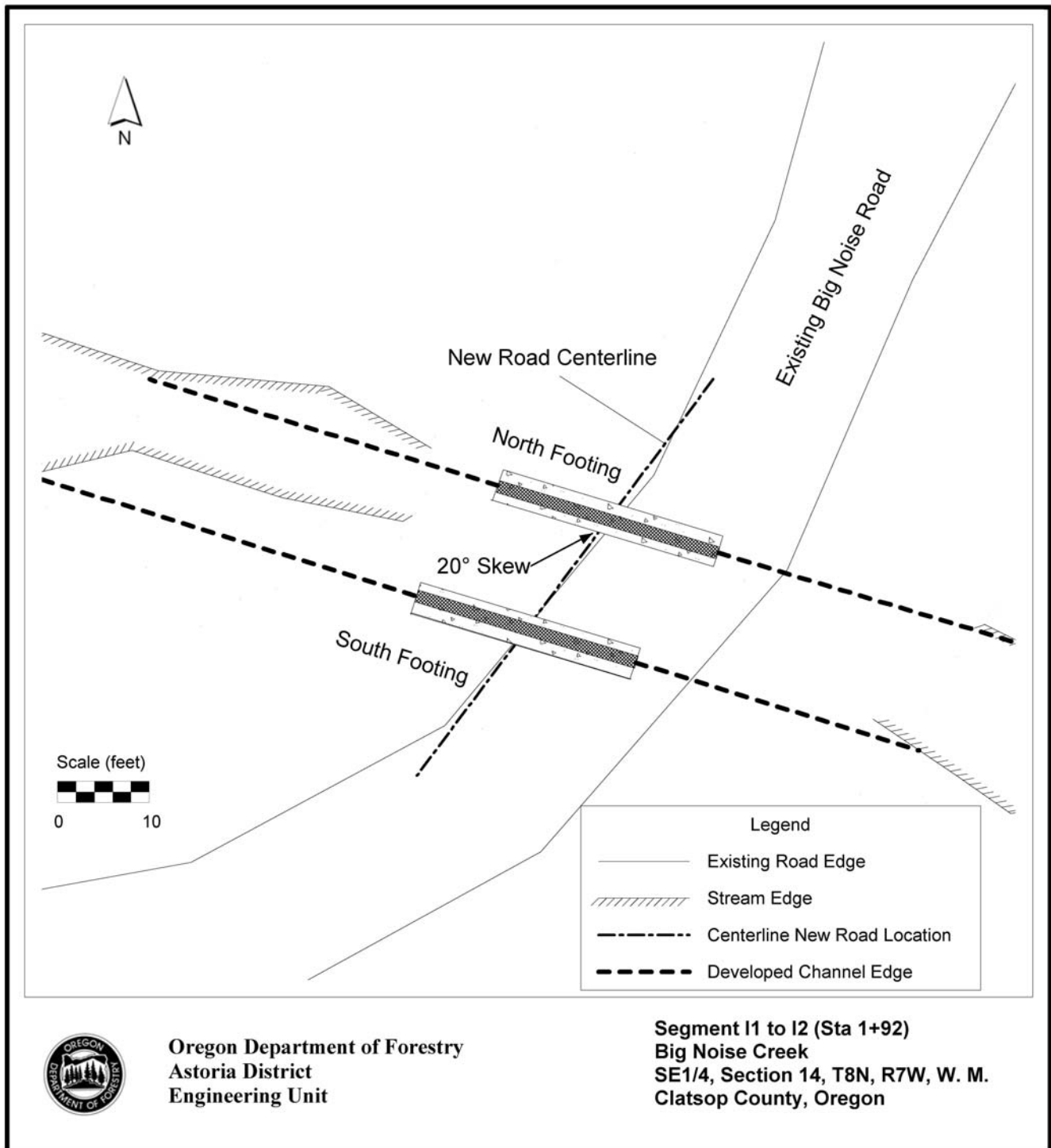


EXHIBIT H
BIG NOISE ARMOR RIPRAP PLAN

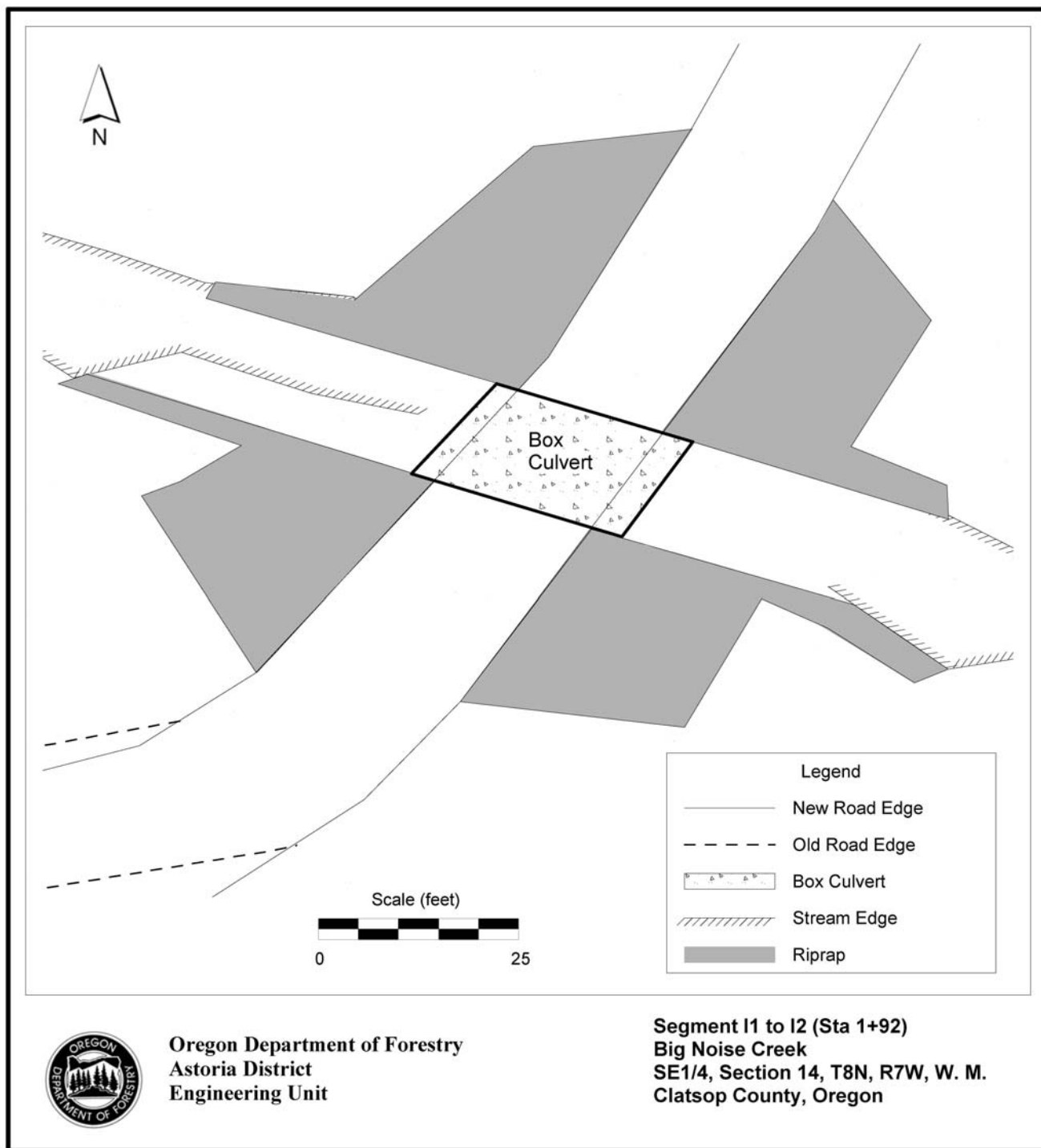
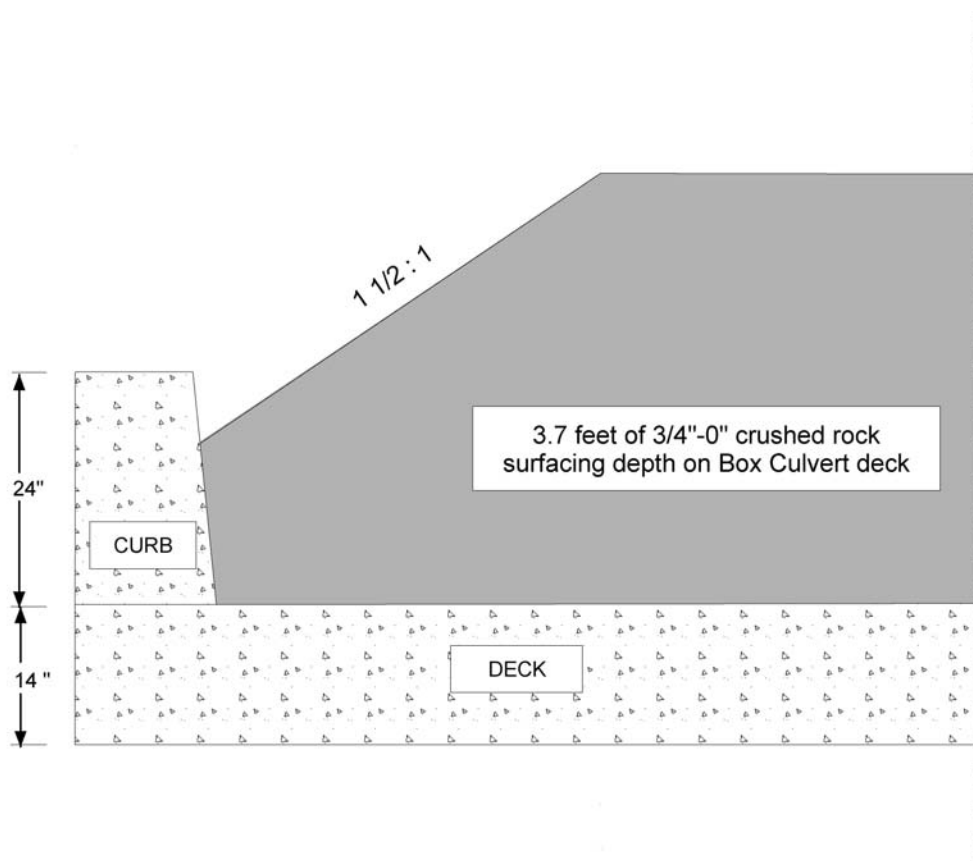


EXHIBIT H
BIG NOISE CURB DETAIL



Oregon Department of Forestry
Astoria District
Engineering Unit

Segment I1 to I2 (Sta. 1+92)
Big Noise Creek
SE1/4, Section 14, T8N, R7W, W. M.
Clatsop County, Oregon

EXHIBIT H
ROCK CREEK SITE PLAN

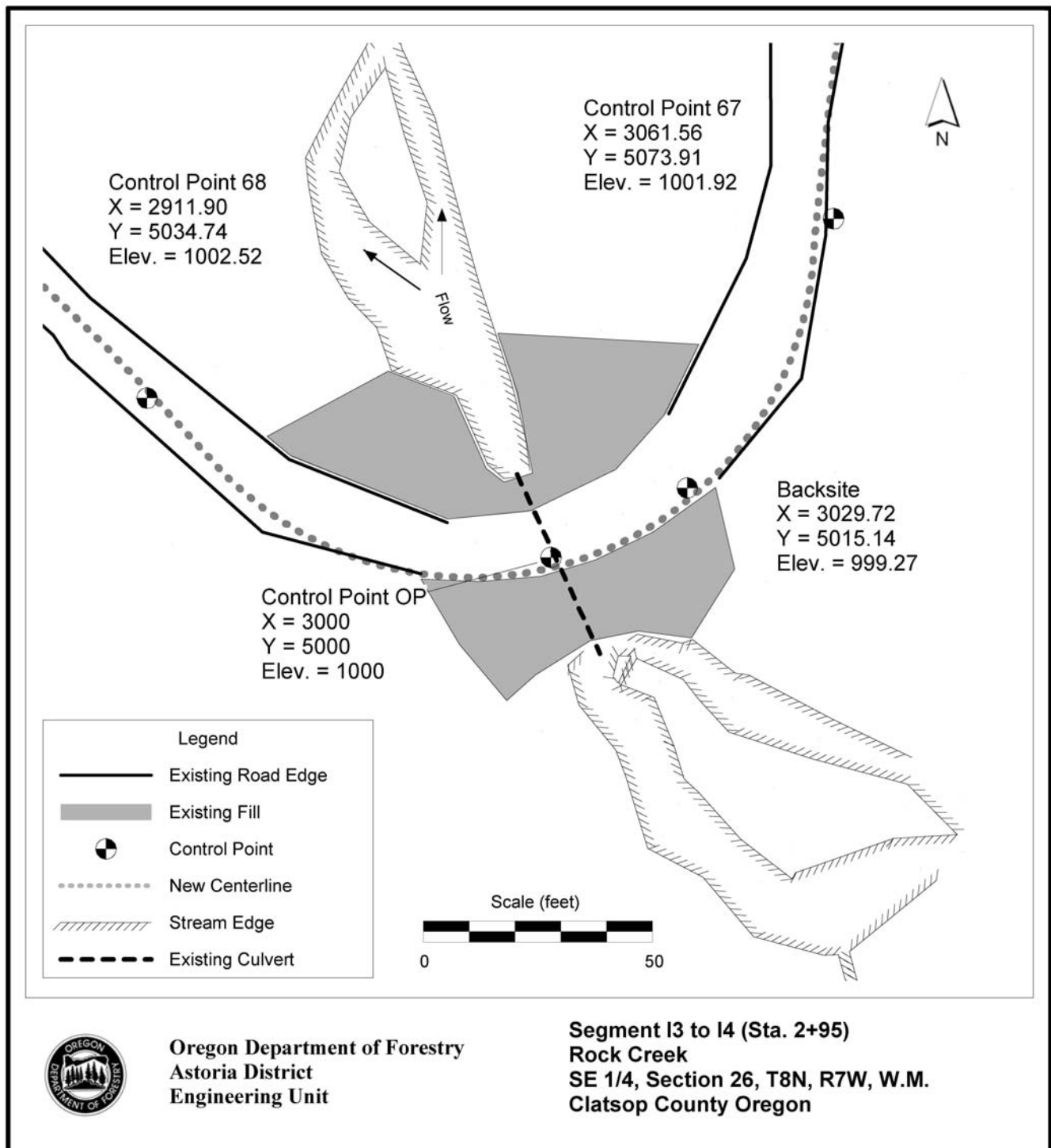


EXHIBIT H
ROCK CREEK PROFILE VIEW

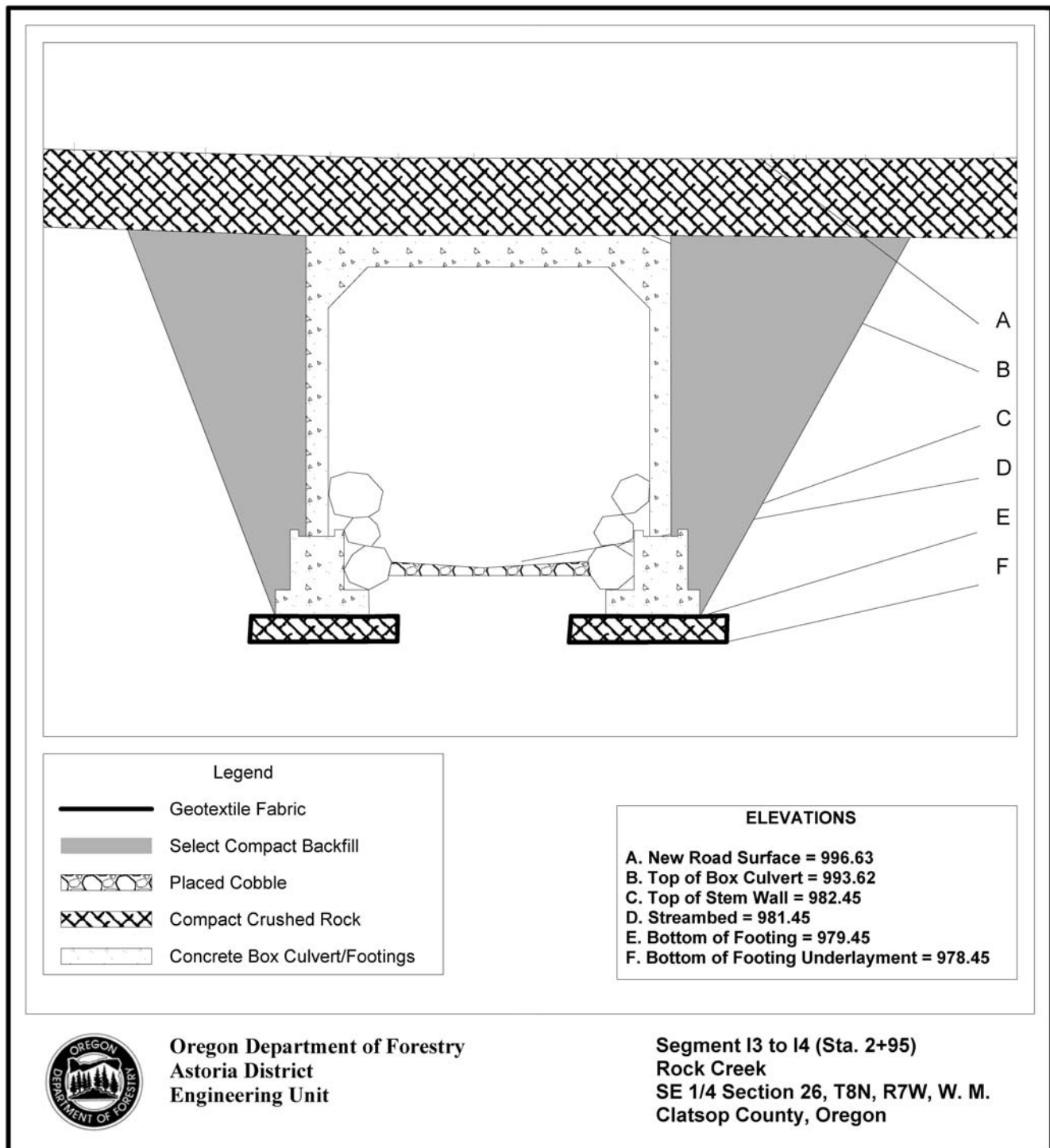


EXHIBIT H
ROCK CREEK FOOTING PLAN

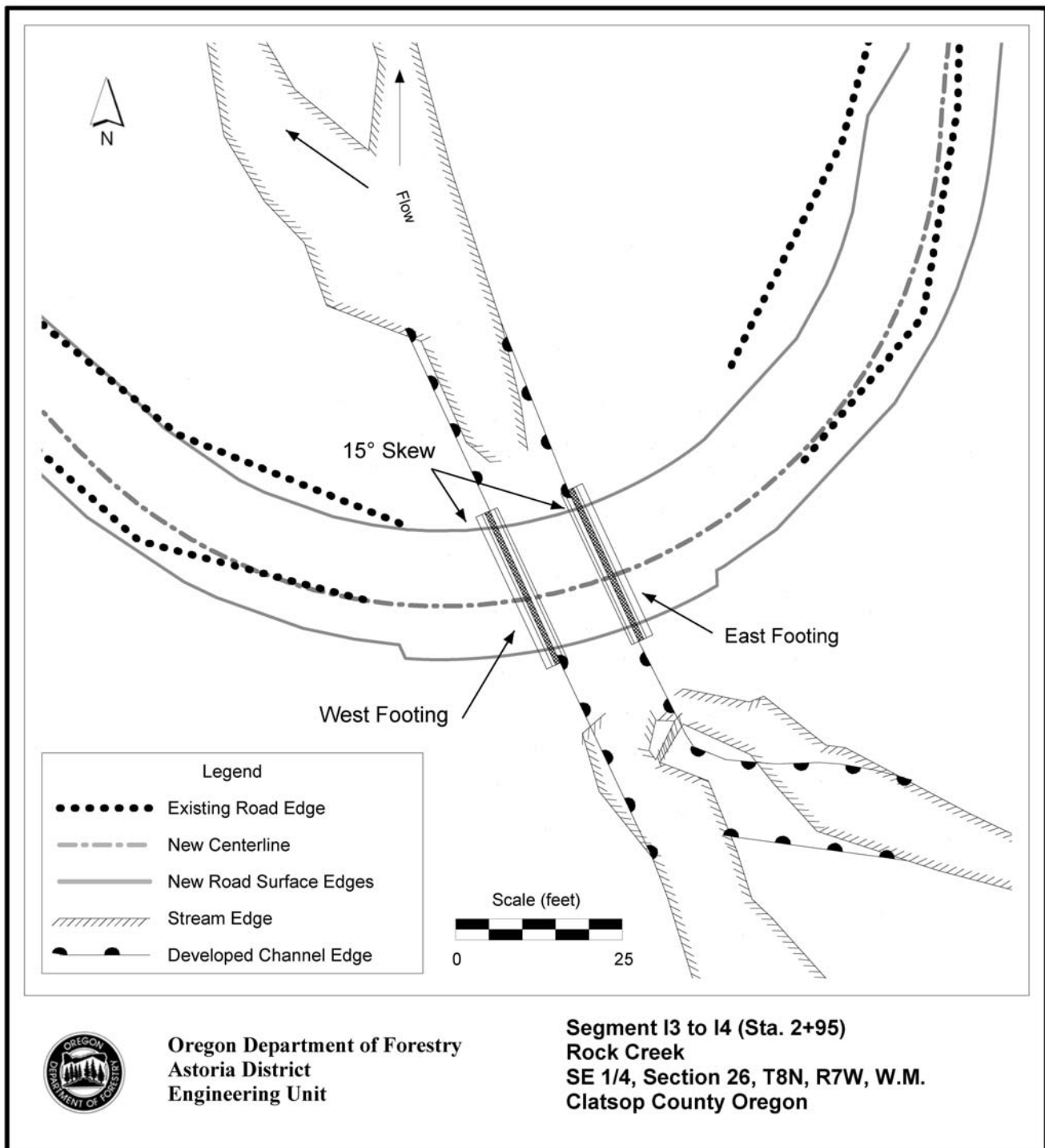


EXHIBIT H

ROCK CREEK ARMOR RIPRAP PLAN

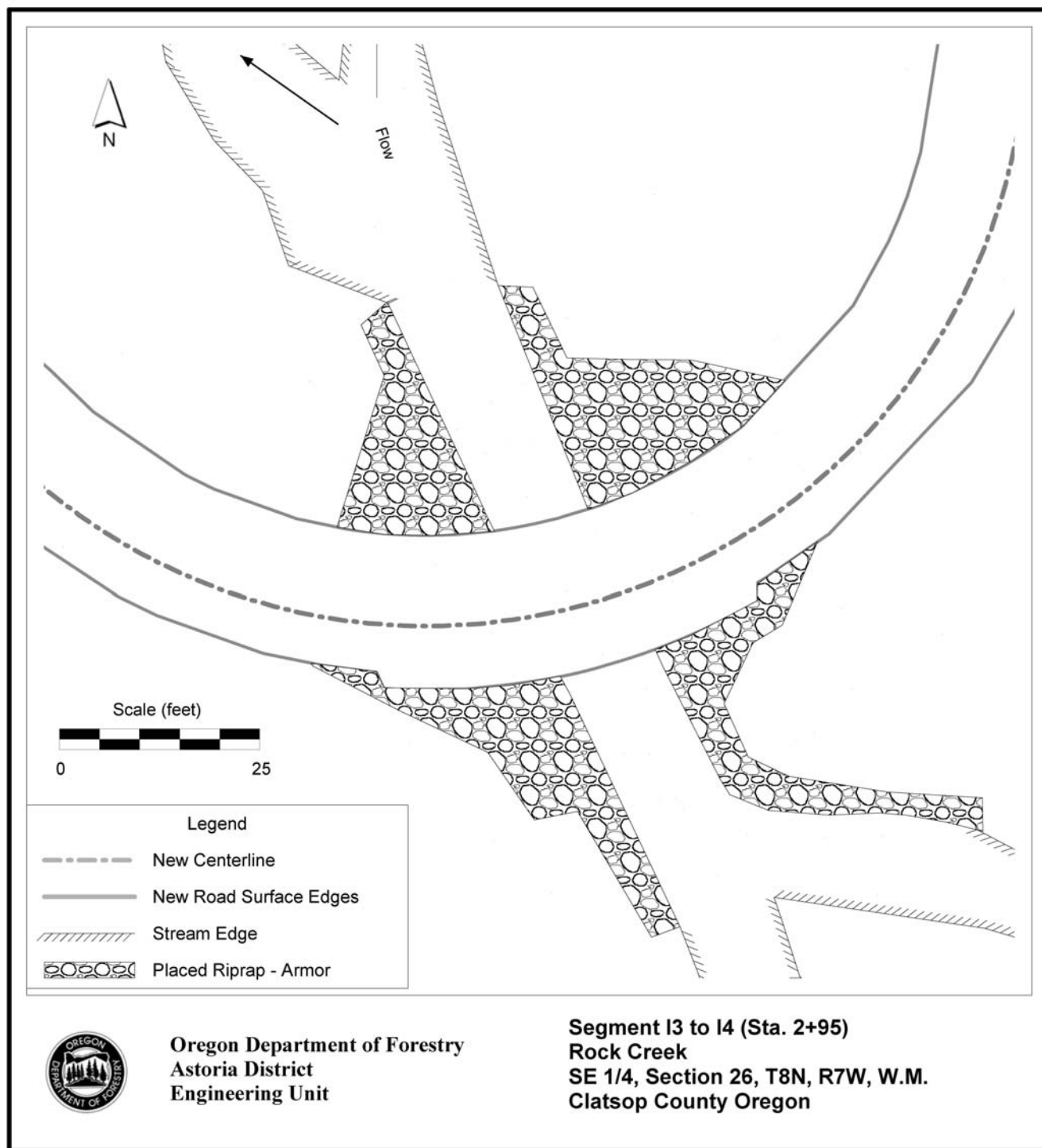
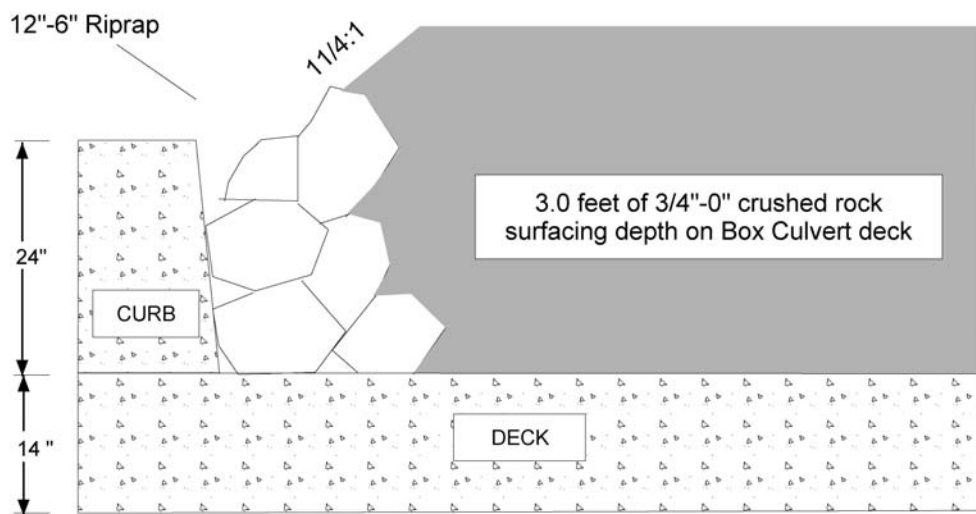


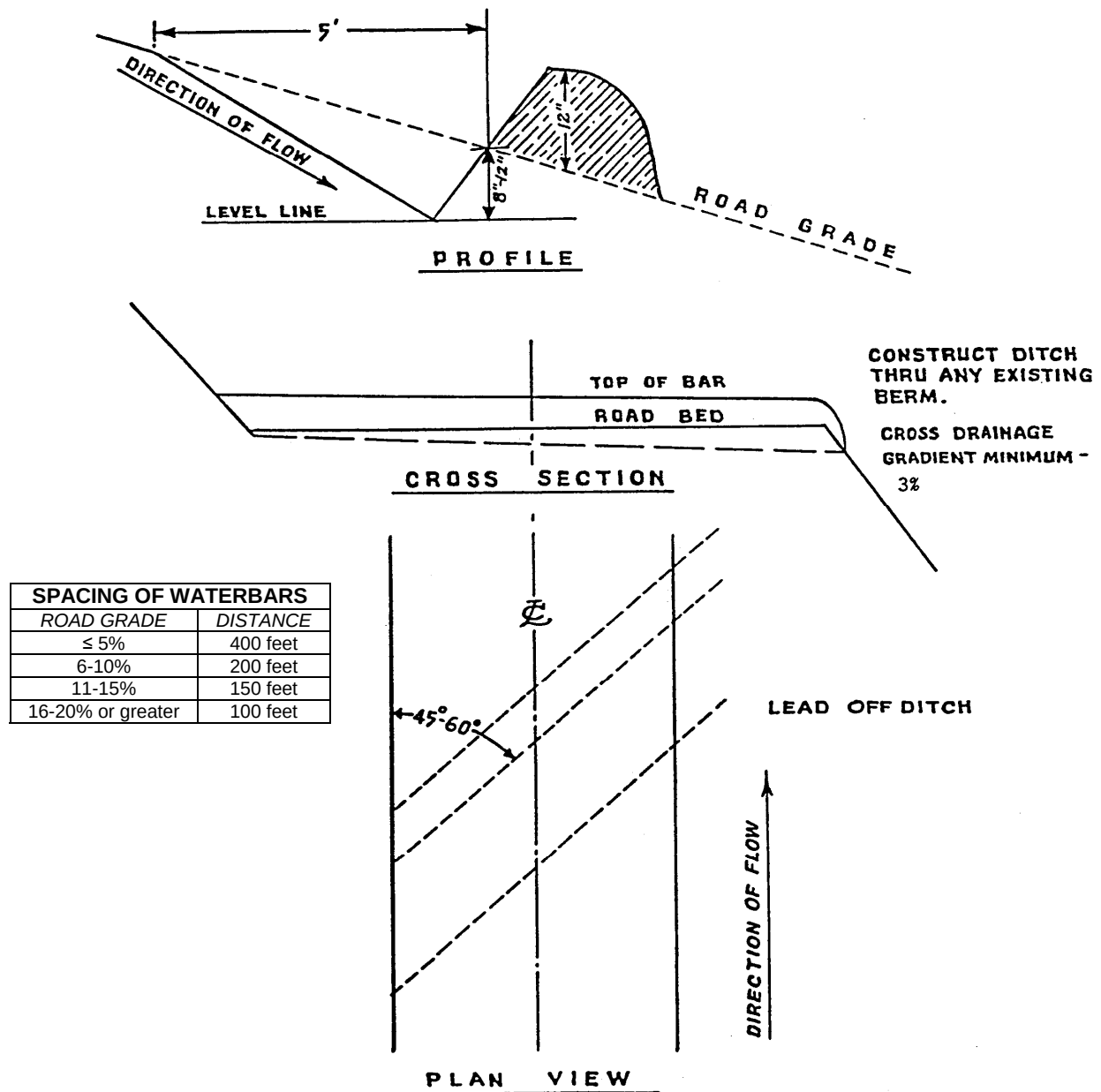
EXHIBIT H
ROCK CREEK CURB DETAIL



Oregon Department of Forestry
Astoria District
Engineering Unit

Segment I3 to I4 (Sta. 2+95)
Rock Creek
SE1/4, Section 26, T8N, R7W, W. M.
Clatsop County, Oregon

EXHIBIT I
WATERBAR SPECIFICATIONS



WATERBAR SPECIFICATIONS
FOR CROSS DITCHING #298

EXHIBIT J

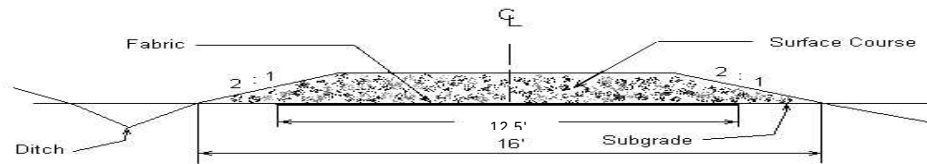
FABRIC SPECIFICATIONS

FABRIC SPECIFICATIONS - shall be woven fabric designed for forest road subgrade surfacing purposes and shall meet or exceed the following requirements, unless otherwise approved in writing by STATE:

- | | | | |
|-----|--------------------------------|----------|------------|
| (1) | Grab Tensile | 300 lbs. | ASTM D1682 |
| (2) | Modulus Load at 10% Elongation | 140 lbs. | ASTM D1682 |
| (3) | Mullen Burst | 600 lbs. | ASTM D751 |
| (4) | Width – 12.5 feet | | |

INSTALLATION REQUIREMENTS - fabric shall be installed according to the following requirements:

- (1) Typical cross section:



- (2) Subgrade surface shall be leveled and smoothed to remove humps and depressions which exceed 6 inches in height and depth. Small pieces of woody debris shall be removed or pushed below subgrade surface. Light vegetation (grass, weeds, leaves, and fine woody debris) may be left in place.
- (3) Fabric shall be installed directly on the prepared surface. Longitudinal and traverse joints shall be overlapped at least 3 feet.
- (4) Surfacing course material shall be placed to the designated thickness in one lift and spread in the direction of fabric overlap. Hauling and spreading equipment shall not be operated on the fabric until the total thickness of surfacing course material is placed.
- (5) Torn, punctured, or separated sections of the fabric shall be repaired by installing a fabric patch over the break prior to placing the surfacing course material. The patch shall be at least 4 feet larger in horizontal dimensions than the break to be repaired.
- (6) Fabric failures resulting after rock placement and as evidenced by subgrade pumping or roadbed distortion shall be corrected. Correction measures shall consist of: (1) removing at least three-quarters the depth of surfacing course material in the affected area, (2) placing a fabric patch over the affected area with a minimum 4-foot overlap around the circumference of the area, and (3) replacing enough rock to cover the patch and blend in with the rest of the road.
- (7) Should STATE determine that installation of woven fabric on roads or portions of roads is not necessary, PURCHASER shall deliver an equivalent amount of woven road fabric to STATE.
- (8) Fabric locations:

Road Segment	Location	Road Segment	Location
I1 to I2	Box Culvert footings		
I3 to I4	Box Culvert footings		

EXHIBIT K

SEEDING AND MULCHING

This work shall consist of preparing seedbeds and furnishing and placing required seed, fertilizer, and straw mulch. Straw mulch shall consist of straw that is free of noxious weeds. Apply seed, fertilizer, and straw mulch to all waste areas, and bare soils resulting from Project No. 2.

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 AND FERTILIZER

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

APPLICATION RATES FOR SEED AND FERTILIZER

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	POISON AND/OR REPELLENT	GERMINATION
Annual Rye	33%	95%	0	>90%
Orchard Grass	33%	95%	0	>90%
Perennial Rye	34%	95%	0	>90%

Fertilizer: Chemical analysis shall be 16-20-0 and shall be applied at the rate of 200 pounds per acre. Fertilizer shall not be applied within 100 feet of streams.

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:

Road Segment	Location	Road Segment	Location
I1 to I2	2+00 to 3+94	I3 to I4	Waste Area 2
I1 to I2	Waste Area 1		
I3 to I4	0+50 to 2+00		

EXHIBIT L

TYPICAL EMBEDDED ENERGY DISSIPATOR

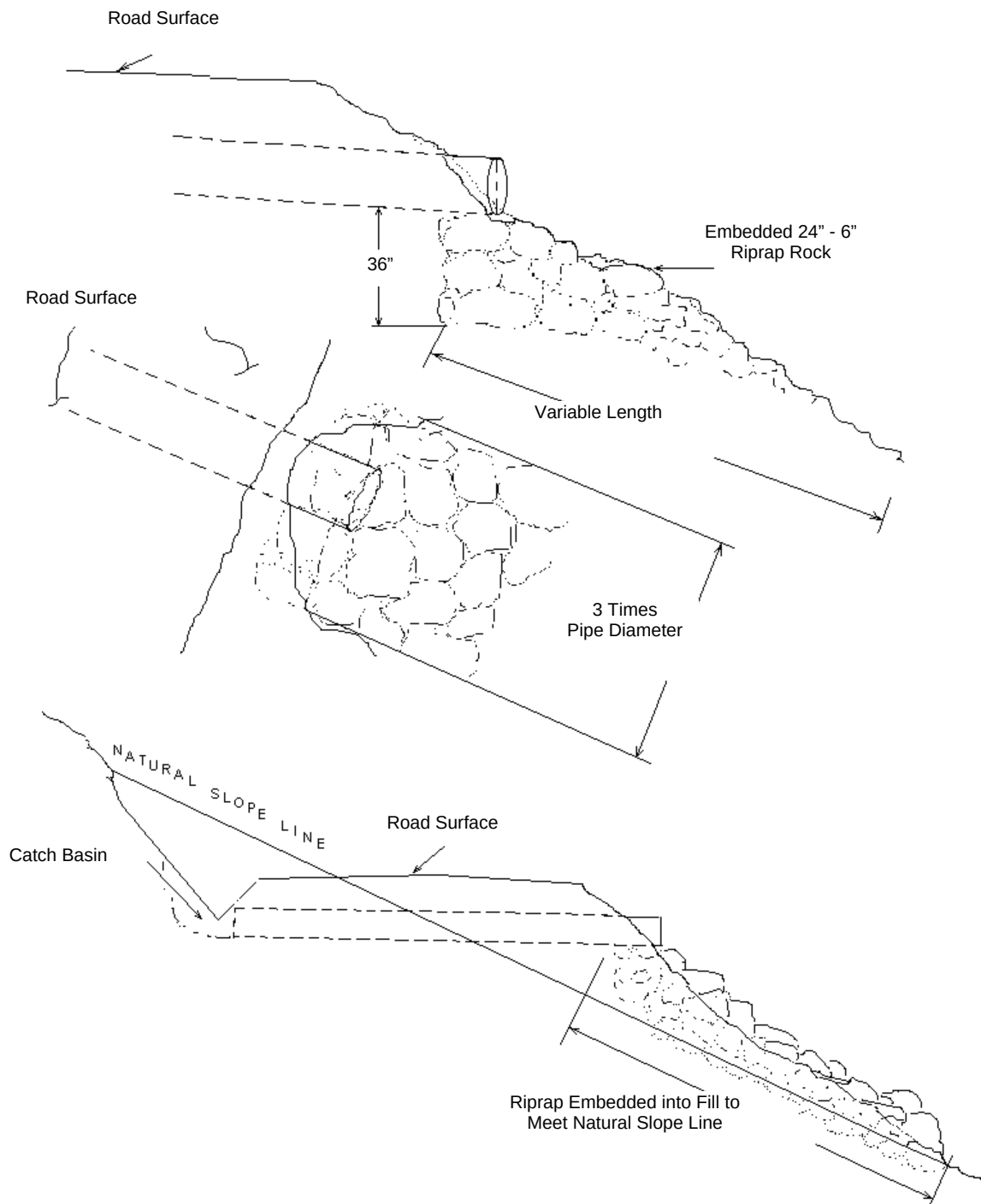


EXHIBIT M

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Description of Work to be Done

Areas designated for work under the contract shall be treated according to the specifications given below:

Clearing - Brush, logging Slash, and other debris shall be cleared from planting sites and piled in windrows or piled so that 80 percent or more of the soil organic layer is exposed. All woody vegetation (other than conifer trees) is defined as brush in this exhibit.

Piles - shall be located at least 75 feet apart and shall be no more than 75 feet long. Piles shall be located inside the project area designated for piling and shall be more than 75 feet from any edge or standing conifer tree. Piles shall be built to a height of 3 to 4 feet and then covered to prevent water from reaching the Slash. STATE shall supply the materials used for covering the Slash. Additional woody debris shall be piled on top of the covered piles to complete the piling, as directed by STATE. Logs and chunks which are suitable for firewood shall be piled separately from Slash, near roads and landings and alongside the road in locations designated by STATE.

Conifer Trees - shall be saved, unless otherwise directed by STATE.

Skid Trails - shall be ripped to a depth of 12 inches.

Residual Logs – An average of 600 cubic feet of hard conifer logs per acre. Log shall contain a minimum of 10 cubic feet of volume and be no shorter than 6 feet in length. Two logs per acre shall be at least 24 inches in diameter, on the large end, where available. Hard conifer logs must be in decay class one or two as indicated by intact bark and original wood color. Trees or logs shall be left well distributed across the unit.

Protective Measures - shall comply with Oregon Forest Practice Rules issued per ORS 527.610 to 527.992. Examples of protective measures are: (1) waterbarring tractor trails where necessary to prevent runoff toward streams; (2) not windrowing in streams or streamways; and (3) leaving stream buffers along designated streams.

Work specifications may be modified or waived only upon written notice from STATE.

EXHIBIT M

SPECIFICATIONS FOR BRUSH AND SLASH SHOVEL PILING

Equipment Type, Equipment Operation, and Conduct of Work

The specifications given below are requirements for equipment type, equipment operation, and conduct of work under the contract.

Shovel - shall be a track-mounted machine with a ground-pressure rating of not more than 6.8 PSI and a net horsepower of 85 or more. The machine shall be capable of a minimum horizontal reach of 26 feet and a minimum vertical reach of 16 feet.

- Excavator-shovel: Bucket shall be a hydraulically controlled, 4 to 5-foot wide, "clamshell-style bucket with rake arms," with a 360-degree continuous rotation, and tooth length on rake arm shall be greater than 14 inches long, unless otherwise approved in writing by STATE. "Clamshell-style bucket with rake arms" shall be hydraulically controlled to operate bucket in a horizontal position (**fixed position: positive control**) for piling slash.
- Log Loader – shovel: Bucket shall be a hydraulically controlled, 4 to 5 foot wide, "clamshell-style bucket with rake arms," with a 360-degree continuous rotation, and tooth length on rake arm shall be greater than 14 inches long, unless other wise approved in writing by STATE. "Clamshell-style bucket with rake arms" shall be hydraulically controlled to operate bucket in a vertical position (**free swinging**) for piling slash.

Equipment	Rate	Hours	Appraised Value
Excavator	\$ 120.00 / hour	80.9	\$9,708.00
Log Loader	\$ 87.50 / hour	110.9	\$9,708.00

Operator - must be experienced in operating similar equipment on land clearing operations, be able to operate the equipment proficiently, and pile the debris on the area as directed by STATE.

Support - including transport, other equipment, replacements, supplies, maintenance, and repairs shall be furnished as required to complete work; and shall be furnished without cost to STATE, other than as agreed under the contract terms.

Work Scheduling - work shall be accomplished only during dry weather conditions, and started within 14 calendar days after completion of Yarding activities on Areas 1, 2 and 3. Operations shall provide for continual operation until contract work is completed, unless interrupted by poor weather, fire closures, or other uncontrollable circumstances. Equipment breakdowns shall be repaired without undue delay, and provision shall be made for replacement of equipment to prevent prolonged delays. Piling operation shall not be allowed when operations might damage sites or affect stream flows. Any exception to these instructions must be authorized in writing by STATE.

STATE Representative - shall provide directions for the conduct of work according to specifications.

PART IV: OTHER INFORMATION

State Timber Sale Contract
No. 341-09-42
Outland

Page 1 of 2

FOREST PRACTICES ACT "WRITTEN Plan" Outland Timber Sale Type F Crossings

Landowner: Oregon Department of Forestry
92219 Hwy 202
Astoria, OR 97103
(503) 325-5451

Protected Resources:

Road Segment I1 to I2, (Sta.1+92): Big Noise Creek a tributary of Gnat Creek, a medium Type F fisheries resource, located in the SE 1/4, Section 14, T8N, R7W, W.M., Clatsop County, Oregon.

Road Segment I3 to I4, (Sta. 2+95): East Rock Creek a tributary of Rock Creek and Gnat Creek, a medium Type F fisheries resource, located in the SE1/4, Section 26, T8N, R7W, W.M., Clatsop County, Oregon.

A written plan is required for any activity within 100 feet of any Type F stream.

Situation:

Road Segment I1 to I2 (Sta. 1+92): A galvanized-steel-culvert stream crossing located on West Big Noise Road is deteriorating, undersized, and a partial blockage to fish. Resource management objectives for this stream crossing project include providing cost effective long-term access, meeting or exceeding FPA requirements, enhancement of fisheries habitat, and protection of water quality and riparian areas.

Road Segment I3 to I4 (Sta. 2+95): A galvanized-steel-culvert stream crossing located on Rock Creek Road is deteriorating, undersized, a partial blockage to fish, and storms have washed a portion of the culvert down stream. Resource management objectives for this stream crossing project include providing cost effective long-term access, meeting or exceeding FPA requirements, enhancement of fisheries habitat, and protection of water quality and riparian areas.

Drainage Area and Structure Design (Road Segment I1 to I2) (Sta. 1+92): The stream crossing structure will be an open-bottom concrete box culvert which will provide a 14 foot wide waterway under the structure.

Existing Stream Gradient:	3%
Size of Watershed:	688 acres
Minimum Stream Width:	11.5 feet
Minimum Stream Width w/Flood Plain:	13.0 feet
Stream Bed Material:	Cobble, Sand, Gravel, Bedrock
50-Year Peak Flow/Mi. ² :	200 cfs
50-Year Peak Flow:	215 cfs
Flow Capacity of Existing Structure:	113 cfs
Flow Capacity of New Structure:	1672 cfs
	150 ft ² wetted cross sectional area
	48 ft wetted perimeter (w/ 3 ft clearance)

FOREST PRACTICES ACT "WRITTEN Plan"
Outland Timber Sale Type F Crossings

Drainage Area and Structure Design (Road Segment I3 to I4) (Sta. 2+95): The stream crossing structure will be an open-bottom concrete box culvert which will provide a 12 foot wide waterway under the structure.

Existing Stream Gradient:	7%
Size of Watershed:	731 acres
Minimum Stream Width:	10 feet
Minimum Stream Width w/Flood Plain:	12.0 feet
Stream Bed Material:	Cobble, Sand, Gravel, Bedrock
50-Year Peak Flow/Mi. ² :	200 cfs
50-Year Peak Flow:	228 cfs
Flow Capacity of Existing Structure:	64 cfs
Flow Capacity of New Structure:	1865 cfs
	120 ft ² wetted cross sectional area
	44 ft wetted perimeter (w/ 3 ft clearance)

Resource Protection Measures:

- Machine activity in stream channels will be minimized. All existing fill, existing culvert removal, and rip rap rock placement will be performed using a minimum 2 cubic-yard track-mounted excavator.
- In-stream work, including, excavation, culvert removal, culvert installation, box culvert installation, and riprap rock placement will be conducted from July 15 to September 15.
- An erosion-control plan will be developed and followed to prevent sediment from entering the stream during construction work.
- Waste materials will be hauled to approved waste areas and left in a stable condition.
- A combination of pre-cast open-bottom concrete culvert components and/or riprap rock will be used to construct back walls, and stream deflectors to protect the structure, road approaches/embankments, and stream banks from erosion.
- For the box culvert, use of pre-cast concrete components will prevent contamination of water from mixing and pouring concrete on site.
- Oil spill response materials shall be on site before the work begins.

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

Attachments: Exhibit A and H.

Original: Salem

CC: Operator, Purchaser, District File, Engineering Unit, Sunset Unit

State Timber Sale Contract
No. 341-09-42
Outland

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: (____) _____

bmK

3/11/99

PUMPCERT.doc

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

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.
- (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