

# PART III: EXHIBITS

State Timber Sale Contract  
No. SW-341-2020-GF9019-01  
Wall GNA

EXHIBIT B

629-Form 341-203  
Revised 5/18

## 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.: SW-341-2020-GF9019-01

(2) Sale Name: Wall GNA

(3) Contract Expiration Date: 10/31/2021

Project Completion Dates: \_\_\_\_\_

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

(6) Purchaser Representatives:

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

(7) State Representatives:

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

(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)**

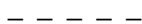
- (5) All sales require you to use a brand furnished by STATE. If the State brand has not been assigned when the plan is submitted, it will be furnished and assigned later. Complete drawing. If more than one brand is assigned to the sale, complete both drawings.
- (6) The contract requires you to have 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.



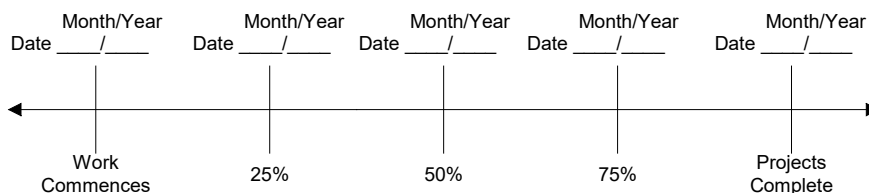
Temporary stream crossings.

EXHIBIT B  
OPERATIONS PLAN

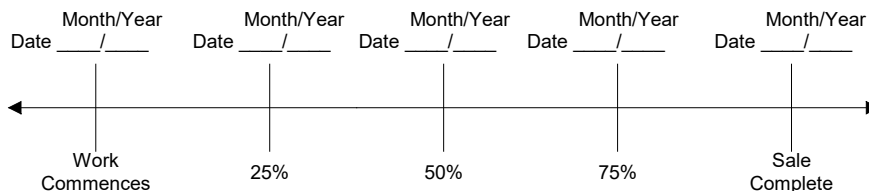
**Completion Timeline**

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  
Unit  
Purchaser  
Operator  
(Purchaser Representative) \_\_\_\_\_

## SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

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

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

(3) FROM: South Cascade Phone 541-726-3588  
(State Forestry District)  
Address 3150 Main St. Springfield, OR 97478

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

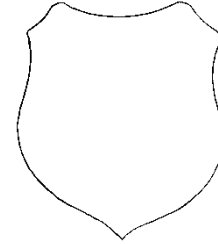
(9) SALE NAME: Wall GNA

COUNTY: Lane

(10) STATE CONTRACT NUMBER: SW-341-2020-GF9019-01

(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  
X ☐  
Use Region 6 actual taper rule. Logs over 40'.

(7) Weight Scale Sample ☐ X

[illegible]

(14) <b>SPECIAL REQUESTS</b>	(Check applicable)
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PEELABLE CULL (all species) .....	X
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**NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE** ..... 

**ADD-BACK VOLUME** - Deductions due to delay ..... ☐

OTHER:

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

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

(16) SIGNATURES:

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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@mwlsqb.com](mailto:info@mwlsqb.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 <\\WPODFILL01\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.

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

## 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: South Cascade Phone 541-726-3588  
(State Forestry District)  
Address 3150 Main St. Springfield, OR 97478

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

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

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

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

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

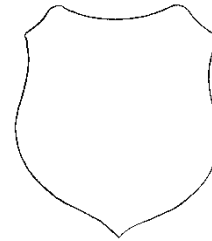
- Top portion of the tree (tops).
- All logs with a diameter (Big End) greater than 8 inches marked with blue paint.

(9) SALE NAME: Wall GNA  
COUNTY: Lane

(10) STATE CONTRACT NUMBER: SW-341-2020-GF9019-01

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

(12) STATE BRAND INFORMATION: (COMPLETE BELOW)



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

(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.

Operator's Name (Optional inclusion by District):

\_\_\_\_\_

(8) **TPSO PROCESSING INSTRUCTIONS**

- Mail to ODF weekly.

(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@mwlsgb.com](mailto:info@mwlsgb.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.

State Timber Sale Contract  
No. SW-341-2020-GF9019-01  
Wall GNA

EXHIBIT D

SEE THE FOLLOWING PAGES FOR DETAILS



TABLE PURSUANT TO C5.12# - USE OF ROADS BY PURCHASER (06/1999)

**Restricted Road List**

Road Number	Road Name	Termini		Description of Restrictions
		From	To	
2400000	Salmon Creek Road	MP 0.00	MP 8.18	/2/, /3/, /4/
1934000	Blair Lake Road	MP 0.00	MP 1.25	/1/, /2/, /3/
1934232	N/A	MP 0.00	MP 0.21	/1/, /2/, /3/

**/1/** Limited Structural Strength—this road has limited strength and is likely to be damaged if used when adverse conditions exist in the roadbed. Use of road may occur during the wet season (approximately November 1 through May 31) when placement of additional aggregate or other damage and erosion control mitigating measures are in place. These additional measures will be planned by the Purchaser in a manner to support haul during poor weather conditions at the expense of the Purchaser. Purchaser is required to monitor road conditions and erosion control measures and perform additional mitigation work if needed. When necessary, haul shall be suspended during periods of heavy rainfall to prevent sedimentation or if road use is causing rutting, ponding, failure of drainage structures or other actions that increase sediment delivery to protected stream courses.

**/2/** Pre-haul—Road is unsuitable for hauling prior to all pre-haul road maintenance requirements identified in C5.31# being completed and accepted.

**/3/** Keep open—Road is to remain open and accessible at all times to fire suppression resources. This includes nights and weekends.

**/4/** Bridge—Bridge located at MP 8.14. Use of road by commercial users with loads exceeding Oregon state legal loading for a Single Trip Permit and that will cross bridges under Forest Service jurisdiction shall apply for a Bridge Overload Permit (FSM 7736.05). A State highway overload permit (issued by ODOT, WSDOT) is not a valid permit for crossing Forest Service bridges.

**Title and Date of Governing Road Rules Document:**

**Road Rules for Commercial Haul  
Willamette National Forest**

**December 2016**

**Commercial Road Rules**

**Effective Date**

**Sale Name:** Wall GNA

**TABLE PURSUANT TO C5.31# – ROAD MAINTENANCE REQUIREMENTS (07/2001)**

Purchaser shall maintain roads in accordance with the following  
Contract Road Maintenance Requirements Summary:

**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications										
	From	To		T811	T812	T813	T814	T831	T832	T834	T836	T842	T854	T891
2400000	0.00	8.18	8.18				P		P	P		P	P	
1934000	0.00	1.25	1.25	P		P		P	P	P	P	P	P	P
1934232	0.00	0.21	0.21	P		P		P	P		P	P	P	P

**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications										
	From	To		T811	T812	T813	T814	T831	T832	T834	T836	T842	T854	T891
2400000	0.00	8.18	8.18						P	P		P	P	
1934000	0.00	1.25	1.25	P	P	P		P	P	P	P	P	P	P
1934232	0.00	0.21	0.21	P		P		P	P		P	P	P	P

**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications										
	From	To		T811	T812	T813	T814	T831	T832	T834	T836	T842	T854	T891
2400000	0.00	8.18	8.18						P					
1934000	0.00	1.25	1.25	P		P			P		P			P
1934232	0.00	0.21	0.21	P		P			P		P			P

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Description of work required by the above listed T-specs is shown in the following  
ROAD MAINTENANCE REQUIREMENTS SPECIFICATION table,  
and included in the timber sale contract.

**Sale Name:** Wall GNA

**ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE PURSUANT TO  
C5.31# - ROAD MAINTENANCE REQUIREMENTS (7/01)**

1		2	3			4		5	6			7	8	9	
Road No.	Termini	Special Spec's T-814 (100 Tons)	Travel Way			Brushing and Log Out	Surfacing	Dust Abatement			Seasonal Maintenance	Snow Removal	Post Haul		
			Width	X Slope	Comp			Product	Applic Rate	Width			Block	Treat	
2400000	0.00	8.18				6L	6R								PR
1934000	0.00	1.25	EX	AI	B	6L	6R	50 CY 1 1/2" minus	W*	VAR	EX	T838			PR
1934232	0.00	0.21	EX	AI	B	6L	6R	10 CY 1 1/2" minus				T838			PR

\*Apply water when instructed by STATE. Dust abatement applies to Rock Haul and Timber Haul.

**Sale Name:** Wall GNA

**ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE**  
**PURSUANT TO C5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)**

Column No.	Heading	Entry	Explanation
	Any	Blank	Except as otherwise described, no entry indicates Purchaser is not authorized or required to perform the work item(s).
	Any	RC	This work requirement applies only when haul of sale related construction materials occurs.
2	Special Project Specification	Number and Tonnage	Entry indicates Special Project Specification which applies. Also the amount of asphalt tonnage required.
3	Travel Way	EX	Purchaser shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work.
		Numbers	Purchaser shall maintain the traveled way to the standard width indicated by the entry, plus curve widening, in accordance with Section T-811. If required, the road template shall be shaped to this width and to the designated cross slope before haul and during recurring maintenance.
		IS, C, OS, F, or AI	Cross slopes are designated as: IS (Inslope), C (Crown), OS (Outslope), F (Flat), AI (As Is).
		A or B	If compaction is required.
4	Brush and Log Out	Numeric & R and or L	Purchaser shall remove brush for specified width on either or both the right (R) side or left (L) side of road.
		As Staked	Limits of brushing are as staked or marked in the field.
		OPT	Purchaser may use hand or mechanical means of brushing.
		H	Only hand brushing may be used.

**Sale Name:** Wall GNA

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE  
PURSUANT TO C5.31# - ROAD MAINTENANCE REQUIREMENTS (07/2001)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Purchaser shall place surfacing on roads listed according to the grading indicated.
6	Dust Abatement	OPT	Product selection is Purchaser's choice from those listed in Section T-812.
		Product Abbr.	Unless otherwise agreed, Purchaser is restricted to product listed corresponding to the abbreviation shown in Section T-812; (i.e., LigS = Lignon Sulfonate) Application rates are estimated amounts.
		EX	Purchaser shall abate dust on the existing width
		VAR	Application will vary and should applied as needed.
		Numbers	Purchaser shall abate dust to the width indicated by entry.
7	Seasonal Maintenance	W	Waterbars and/or crossditching shall be required prior to expected seasonal precipitation.
		B	Entrance barriers shall be installed by Purchaser prior to nonuse periods.
8	Snow Removal	TS	Snowplowing authorized for Purchaser's Operations without recreation access being provided per Section T-803 requirements.
		JU	Snowplowing authorized, but must provide for recreation joint use per Section T-803 requirements.
		Blank	Snowplowing is not authorized. Forest Service may authorize plowing by permit when not in conflict with other uses.
9	Post Haul	PR	PR denotes that work is Purchaser's Responsibility to perform.

**STANDARD ROAD MAINTENANCE SPECIFICATIONS**  
**Pacific Northwest Region**

**Road Maintenance T-Specifications**  
**for**  
**Wall GNA Timber Sale**

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 800 SPECIFICATION DEFINITIONS

Wherever the following terms or pronouns are used in Specification T-800 the intent and meaning shall be interpreted as follows:

- 800-1.1      Agreement: Maintenance projects require a mutually acceptable method to resolve the problems which arise when incompatible situations arise between drawings and specifications and actual conditions on the ground to allow orderly and satisfactory progress of the maintenance.
- These specifications have been developed in anticipation of those problem areas and have provided that such changes will be by Agreement.
- It is intended that drawings and specifications will govern unless "on-the-ground" conditions warrant otherwise, when specifications call for "Agreement", "agreed", or "approval" such Agreement or approval shall be promptly confirmed in writing.
- 800-1.2      Annual Road Maintenance Plan: A plan prepared by various users of one or several roads. The plan is an Agreement on maintenance responsibilities to be performed for the coming year.
- 800-1.3      Base Course: Material used to reinforce subgrade or, as shown on drawings, placed on subgrade to distribute wheel loads.
- 800-1.4      Berm: Curb or dike constructed to prevent Roadway runoff water from discharging onto embankment slope.
- 800-1.5      Borrow: Select Material taken from designated borrow sites.
- 800-1.6      Crown, Inslope, and Outslope: The cross slope of the Traveled Way to aid in drainage and traffic maneuverability.
- 800-1.7      Culverts: A conduit or passageway under a road, trail, or other obstruction. A culvert differs from a bridge in that it is usually entirely below the elevation of the Traveled Way.
- 800-1.8      Drainage Dip: A dip in the Traveled Way which intercepts surface runoff and diverts the water off the Traveled Way. A Drainage Dip does not block the movement of traffic.
- 800-1.9      Drainage Structures: Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, down drains, downpipes, and the like.
- 800-1.10     Dust Abatement Plan: A table which lists the road, dust palliative, application rates, and estimated number of subsequent applications.
- 800-1.11     Lead-off Ditches: A ditch used to transmit water from a Drainage Structure or Drainage Dip outlet to the natural drainage area.
- 800-1.12     Material: Any substances specified for use in the performance of the work.
- 800-1.13     Prehaul Maintenance: Road maintenance work which the Purchaser determines must be accomplished to maintain the roads to a satisfactory condition commensurate with the Purchaser's use provided Purchaser's Operations do not damage improvements under B6.22 or National Forest resources and hauling can be done safely. This work will be shown in the Annual Road Maintenance Plan as provided in C/CT5.4.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

- Prehaul Maintenance work the Purchaser elects to perform will be in compliance with the Road Maintenance T-Specifications.
- 800-1.14 Roadbed: The portion of a road between the intersection of Subgrade and side slopes, excluding that portion of the ditch below Subgrade.
- 800-1.15 Road Maintenance Plan: A table which shows applicable road maintenance specifications to be performed by Purchaser on specific roads.
- 800-1.16 Roadside: A general term denoting the area adjoining the outer edge of the Roadway.
- 800-1.17 Roadway: The portion of a road within the limits of excavation and embankment.
- 800-1.18 Shoulder: That portion of Roadway contiguous with Traveled Way for accommodation of stopped vehicles, for emergency use, and lateral support of base and Surface Course, if any.
- 800-1.19 Slide: A concentrated deposit of Materials from above or on back slope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated raveling.
- 800-1.20 Slough: Material eroded from the back slope which partially or completely blocks the ditch, but does not encroach on the Traveled Way so as to block passage of traffic.
- 800-1.21 – Slump: A localized portion of the Roadbed which has slipped or otherwise become lower than that of the adjacent Roadbed and constitutes a hazard to traffic.
- 800-1.22 Special Project Specifications: Specifications which detail conditions and requirements peculiar to the individual project.
- 800-1.23 Subgrade: Top surface of Roadbed upon which Base Course or Surface Course is constructed. For roads without Base Course or Surface Course, that portion of Roadbed prepared as the finished wearing surface.
- 800-1.24 Surface Course: The Material placed on Base Course or Subgrade primarily to resist abrasion and the effects of climate. Surface Course may be referred to as surfacing.
- 800-1.25 Surface Treatment Plan: A table which lists the roads and surface treatments to be applied.
- 800-1.26 Traveled Way: That portion of Roadway, excluding Shoulders, used for the movement of vehicles.
- 800-1.27 Turnouts: That portion of the Traveled Way constructed as additional width on single lane roads to allow for safe passing of vehicles.
- 800-1.28 Water Source: A place designated on the Road Maintenance Map for acquiring water for road maintenance purposes.
- 800-1.29 Water bar: A dip in the Roadbed which intercepts surface runoff and diverts the water off the Roadway. A Water bar is not designed to be traversable by logging trucks.



# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 811 BLADING (10/07)

#### 811.01 Description

This work consists of surface blading the traveled way to a condition that facilitates traffic and provides proper drainage. Blading includes shaping the crown or slope of travel way, berms, and drainage dips in accordance with this specification. Compaction is required when shown on the ROAD LISTING.

#### 811.02 Maintenance Requirements

- A. Timing - Perform surface blading during the contract period as often as needed to provide conditions stated for the maintenance level of the road.
- B. General
  - 1. Blade and shape the existing traveled way and shoulders, including turnouts, to produce a surface which is uniform, consistent to grade, and crowned or cross-sloped as indicated by the character of the existing surface, unless otherwise shown in the ROAD LISTING, to at least  $\frac{1}{2}$  inch per 1 foot of width, but not more than  $\frac{3}{4}$  inch per 1 foot of width. Thoroughly loosen surfacing material to no less than 2 inches depth or the depth of potholes or corrugations. Scarification to facilitate cutting to the full depth of potholes or corrugations may be elected, but will be considered incidental to blading. Do not scarify to a depth that will cause contamination of the surfacing.
  - 2. Apply water during blading when sufficient moisture is not present to prevent segregation. Supply, haul, and apply water in accordance with Section T-891.
  - 3. Shape existing native rock or aggregate surfaced drainage dips to divert surface runoff to existing outlet devices, ditches, or discharge locations.
  - 4. Establish a blading pattern which provides a uniform driving surface, retains the surfacing on the roadbed, and provides a thorough mixing of the materials within the completed surface width. Upon final blading, no disturbed rock shall protrude more than 2 inches above the adjacent surface unless otherwise provided in the contract. Remove and place outside the roadbed, material not meeting this dimension so as not to obstruct drainage ways or structures. This material may be scattered off the roadbed if there is free drainage.
  - 5. Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
NA

- C. Routine Blading
  - 1. Conform to the dimensions SHOWN ON THE DRAWINGS or designated in the SUPPLEMENTAL SPECIFICATIONS upon completion of blading.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

2. Shape roadbed width in excess of the dimensions shown only as needed to provide drainage away from the traveled way. Do not remove established grasses and other vegetation from the excess width except as incidental to providing drainage or unless otherwise provided in the contract.
- D. Compaction
- 1 Roads requiring compaction will be included in the ROAD LISTING.
  2. Unless Compaction Method B is designated in the ROAD LISTING, all traveled ways requiring compaction may be compacted by Method A. Compaction shall commence immediately following blading.

Compaction methods are:

Compaction Method A: Breaking track while operating equipment on the traveled way.

Compaction Method B: 7-10 ton pneumatic, steel, or equivalent vibratory roller, operated to cover the full width two (2) times.

- E. Undercutting - Undercutting roadway back slope is not permitted.
- F. Intersections

At intersections, blade the roadbeds of side roads which are not closed or restricted from vehicular use to ensure smooth transitions.

Signing, cross ditching in the road surface (traveled way), earth berms, or other devices placed to discourage or eliminate use by passenger cars, are field evidence of road closure or restriction. Roads listed for work under Sections T-835, T-836, T-838, and T-839 shall be considered restricted.

Side roads listed for work under this Section are not restricted.

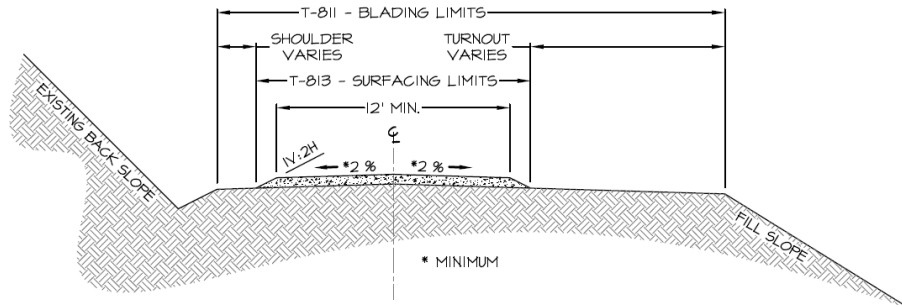
- G. Cleaning of Structures - Do not allow materials resulting from work under this Section to remain on or in structures, such as bridges, culverts, cattle guards, or drainage dips.
- H. Berms - Maintain existing berms to the condition of adjacent segments. Do not create new berms.
- I. Smooth Blading - Smooth blading may be used as an interim measure to remove loose surfacing material from the wheel paths, and store removed materials in a recoverable windrow, until blade processing as described in this section is feasible.

Watering will not be required for smooth blading. Accomplish smooth blading without distorting the existing cross-slope or crown of the traveled way.

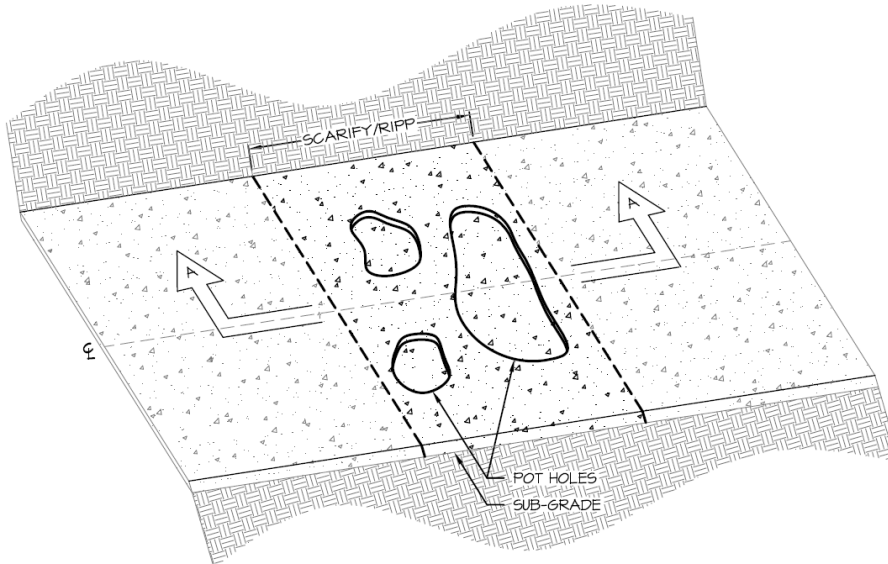
Move and store loose surfacing materials on the high side of super-elevated curves and sections with uniform inslope or outslope. In crowned sections, store the material on either or both sides as elected. Windrow and place stored materials to provide not less than 12 feet of smooth traveled way on one-lane segments, or 20 feet of smooth traveled way on two-lane segments, or segments with turnouts. Cut holes through windrows, which may collect water on the road, for drainage at least every 500 feet.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

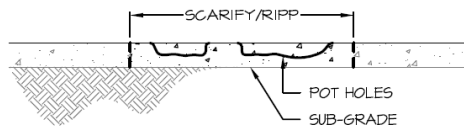
## Pacific Northwest Region



**BLADING & SPOT ROCK**  
**TYPICAL**  
Not to Scale



**POT HOLE TREATMENT**  
**TYPICAL**  
Not to Scale



**SECTION A - A**  
Not to Scale

**NOTES:**

1. GRADING - CROWN ROADS WITH A 2% - 3% CROWN. FOR IN-SLOPE/OUT-SLOPE ROADS SLOPE WITH A 2% - 3% CROSS SLOPE OVER THE ENTIRE ROAD WIDTH. COMPACTION METHOD SHALL BE COMPLETED AS SHOWN ON C5.31# - ROAD MAINTENANCE REQUIREMENTS TABLE
2. SURFACING SPOT ROCK - PLACE MATERIAL THE FULL ROAD WIDTH BY END DUMPING TO A MINIMUM DEPTH OF 3".
3. CLEANING DITCHES, WHEN REQUIRED BY REFERENCE, IS COVERED UNDER T-831, T-832, AND T-834.
4. POT HOLES - PRIOR TO GRADING AND SPOT ROCK ACTIVITIES, SCARIFY/RIPP ALL POT HOLES, FULL WIDTH, DOWN TO SUB-GRADE OR FIRM GROUND AS DIRECTED BY CONTRACTING OFFICER.

**T-811 & T-813 TYPICALS (11/14)**

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 812 DUST ABATEMENT (05/09)

#### 812.01 Description

This work consists of applying dust palliatives on roads shown in the Road Listing.

#### 812.02 Materials

The dust palliative materials are shown in the Road Listing, unless shown as Optional for Purchaser's election. If Optional is shown then the Purchaser may use any of the products listed below. Dust palliative materials shall meet the following requirements:

- A. Water (H<sub>2</sub>O) will be obtained from sources SHOWN ON THE DRAWINGS or listed in the SUPPLEMENTAL SPECIFICATIONS to Section T-891 Water Supply, unless otherwise approved by the STATE.
- B. Lignin Sulfonate (LIG S) Provide certification that the material meets the requirements of Subsection 725.20 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP-03)" and the Forest Service Supplemental Specification 725.20.
- C. Magnesium Chloride (MG CL2) Provide certification that that the material meets the requirements of Subsection 725.02 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP03) " and the Forest Service Supplemental Specification 725.02.
- D. Calcium Chloride Brine (CA CL2B). Provide certification that the material meets the requirements of Subsection 725.02 of the " Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP03) " and the Forest Service Supplemental Specification 725.02.
- E. Calcium Chloride Flake (CA CL2F). Provide certification that that the material meets the requirements of Subsection 725.02 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP03) " and the Forest Service Supplemental Specification 725.02.
- F. Bituminous dust palliatives. Manufacture materials specifically for dust abatement purposes which conform to the requirements of Section T-892 for each listed road in the Road Listing.

#### 812.03 Methods

As shown in the SUPPLEMENTAL SPECIFICATIONS, Purchaser may utilize a variety of methods to decrease or eliminate the need for dust abatement.

#### 812.04 Equipment

- A. Design, equip, and operate application equipment for spreading dust palliatives so that the material is uniformly applied at the rate and traveled way widths shown in the Road Listing.
- B. For bituminous palliatives provide equipment that heats and applies the bituminous material. Provide a bituminous distributor that is self-powered and mounted on pneumatic tires and equipped with a pump and circulating spray bar, a tachometer, pressure gauges, accurate volume measuring devices such as visual volume dial or gauge calibrated to the tank, and a thermometer. Provide equipment which is a standard commercial type of proven performance.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

C. Accomplish dilution of dust palliatives within the application vehicle with the water source protected from contamination. Circulate the resulting mixture at least five (5) minutes to ensure uniform mixing prior to application.

### 812.05 Maintenance Requirements

A. Limit water applications to abatement for hauling vehicles and provide at a frequency and rate which controls dust such that vehicle tail lights and turn signals remain visible. Vary rates of application as needed but remain low enough to avoid forming rivulets. Accomplish the abatement by sufficient frequency of application without saturating and softening the traveled way. Compacted or glazed road surface or wheel tracks may be loosened as needed for water penetration.

B. Apply all other dust palliatives at the rates and times agreeable to the STATE. The Road Listing shows the expected average application rate and may be varied to meet field conditions. Lignin Sulfonate, Magnesium Chloride, and Calcium Chloride Brine are listed as gallons per square foot of the undiluted product at fifty (50), thirty-three (33), and thirty-eight (38) percent respectively. Calcium Chloride Flake is listed in pounds per square foot at seventy-seven (77) percent concentration.

C. Apply bituminous dust palliatives only when the surface to be treated contains sufficient moisture to obtain uniform distribution of the dust palliative unless noted differently in the SUPPLEMENTAL SPECIFICATIONS.

D. Prior to initial application, when needed, the road will be bladed and shaped under Section T-811, Blading.

E. Required subsequent applications may be applied to the existing road surface without blading.

F. Dust palliatives will not be applied in a manner that spatters or mars adjacent structures or trees, or placed on or across cattleguards or bridges. Discharge dust abatement material only on roads approved by the STATE.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 813 SURFACING (10/07)

#### 813.01 Description

This work consists of placing surface aggregate as DESIGNATED ON THE GROUND, or as ordered by the STATE. It includes preparing the area, furnishing, hauling, and placing all necessary materials and other work necessary to blend with the adjacent road cross section.

#### 813.02 Materials

Materials will be Government-furnished when stated in the supplemental specifications.

Materials furnished by the Purchaser shall conform to the gradation and quality requirements of Section 703 of the "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects FP-03 U.S. Customary Units" and FS supplements to the FP-03. Use ODOT 1 ½ dense gradation or FS Gradation S.

All materials transported onto National Forest System land shall be free of invasive species of concern. Written documentation of methods used to determine the invasive species of concern free status of any and all materials furnished by the Purchaser shall be submitted to the STATE before transport of any materials onto National Forest System land.

The STATE shall have 5 days, excluding weekends and Federal holidays, to review the methods and inspect the materials after the required written documentation is provided by the Purchaser. After satisfactory review and inspection or after such 5 day period, the Purchaser may transport the material onto National Forest System land.

Material or methods appropriate for establishing invasive species of concern free status for the particular invasive species of concern are listed below.

Invasive Species of Concern and Acceptable Methods specific to this project:

Invasive Species of Concern	Acceptable Methods
NA	NA

#### 813.03 Maintenance Requirements

- A. Thoroughly loosen the area to be surfaced to a minimum depth of 1 inch prior to placement of aggregate.
- B. Mixing and Placing

When scheduled coincidentally with work under Section T-811, and included in the SUPPLEMENTAL SPECIFICATIONS, mix surfacing and existing aggregate with water until a uniform mixture is obtained prior to final shaping and compaction.

Otherwise, spread the material on the prepared area in layers no more than 4 inches in depth. When more than one (1) layer is required, shape and compact each layer before the succeeding layer is placed. Upon completion, the surfacing shall reasonably conform to the adjacent cross section and provide smooth transitions in the road profile.

#### Compaction Methods

Compaction Method A: Breaking track while operating equipment on the traveled way.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

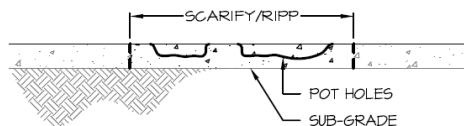
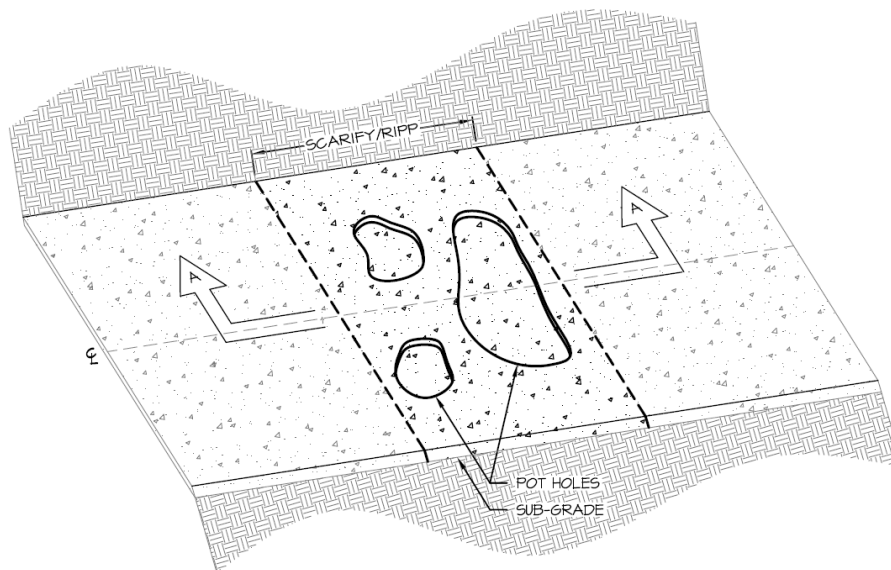
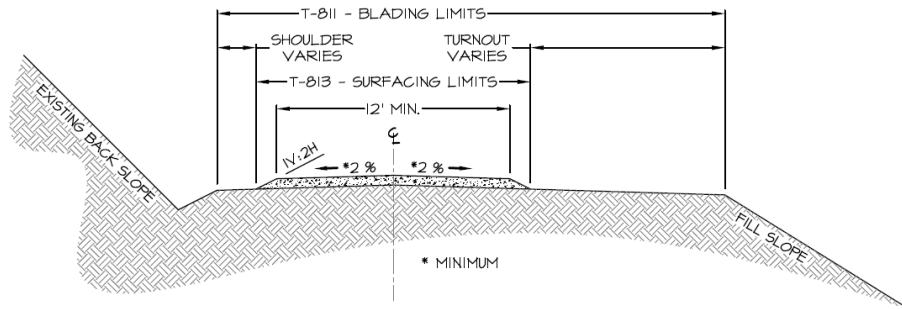
## Pacific Northwest Region

Compaction Method B: 7-10 ton pneumatic, steel, or equivalent vibratory roller, operated to cover the full width two (2) times.

Either Method A or B may be used unless Method B is designated in the ROAD LISTING.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region



**NOTES:**

1. GRADING - CROWN ROADS WITH A 2 % - 3 % CROWN. FOR IN-SLOPE/OUT-SLOPE ROADS SLOPE WITH A 2 % - 3 % CROSS SLOPE OVER THE ENTIRE ROAD WIDTH. COMPACTION METHOD SHALL BE COMPLETED AS SHOWN ON C5.31# - ROAD MAINTENANCE REQUIREMENTS TABLE
2. SURFACING SPOT ROCK - PLACE MATERIAL THE FULL ROAD WIDTH BY END DUMPING TO A MINIMUM DEPTH OF 3".
3. CLEANING DITCHES, WHEN REQUIRED BY REFERENCE, IS COVERED UNDER T-831, T-832, AND T-834.
4. POT HOLES - PRIOR TO GRADING AND SPOT ROCK ACTIVITIES, SCARIFY/RIPP ALL POT HOLES, FULL WIDTH, DOWN TO SUB-GRADE OR FIRM GROUND AS DIRECTED BY CONTRACTING OFFICER.

**T-811 & T-813 TYPICALS (11/14)**



# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### **T-814 – ASPHALT SKIN PATCHING**

#### 814.01 Description

This Section provides for the patching and repair of paved asphalt roads to facilitate safe and efficient log hauling. This work is shown in Exhibit A and designated on the ground with stakes.

#### 814.02 Performance Standard

- A. This work is complete when the pavement is clean and free of potholes and surface irregularities.
- B. Furnish Hot Asphalt Pavement Mix, ODOT Spec. 3/8" Dense Gradation, Level II HMA, Asphalt Grade PG 64-22, as approved by STATE.
- C. Place the asphalt concrete mixture in layers not exceeding 4 inches. Thoroughly compact each layer with mechanical tampers or rollers. For hot asphalt concrete mixtures, compact the mix while it is above 230 degrees Fahrenheit.
- D. Compact the finished surface with an approved steel-wheel roller, as approved by STATE. Ensure that the compacted patch is approximately 1/8 to 1/4 inches above the level of the adjacent pavement.
- E. Clean the existing surface of all loose material, dirt, or other deleterious substances by approved methods. Apply emulsified asphalt tack coat on a dry, unfrozen surface when the air temperature in the shade is above 35 degrees Fahrenheit and rising.
- F. Seal the edges of the completed patch with emulsified asphalt, and blot with fine sand. STATE will approve the exact application rate, temperature, and area to be treated before application and may make adjustments for variations in field conditions.

#### 814.03 Measurement

Material will be measured by the ton and shall be verified by certified weight tickets.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 831 DITCH MAINTENANCE (10/07)

#### 831.01 Description

This Section provides for routine maintenance of various types of ditches to provide a waterway which is unobstructed, as shown on the ROAD LISTING or DESIGNATED ON THE GROUND.

#### 831.02 Maintenance Requirements

- A. Maintain ditches by removing rock, soil, wood, and other materials. Maintained ditches shall function to meet the intent of the original design.
- B. Undercutting back slopes during removal operations is not permitted.
- C. Suitable material up to 4 inches in greatest dimension removed from the ditches may be blended into existing native road surface and shoulder or placed in designated berm.
- D. Do not blend material from ditch cleaning operations into aggregate surfaced roads. Do not blade material across aggregate or bituminous surfaced roads, unless approved in writing by the STATE.
- E. Haul material in excess of 831.02 D or subject to 831.02 E to a designated waste area under Section T-832. Remove excess materials temporarily stored on the ditch slope or edge of the shoulder daily.
- F. Remove limbs and wood chunks in excess of 12 inches in length or 3 inches in diameter from ditches and place outside the roadway.
- G. Clean paved surfaces of all materials resulting from ditch maintenance work.

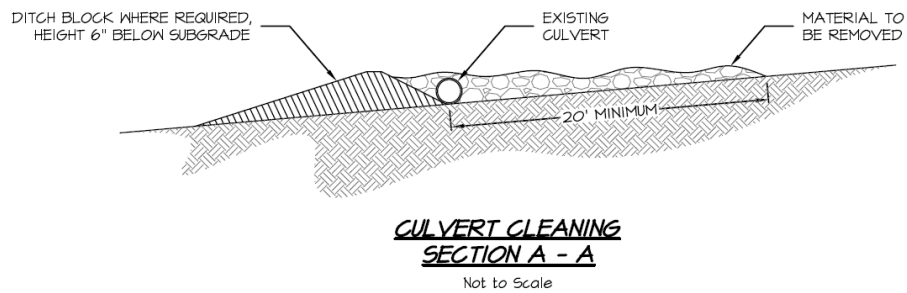
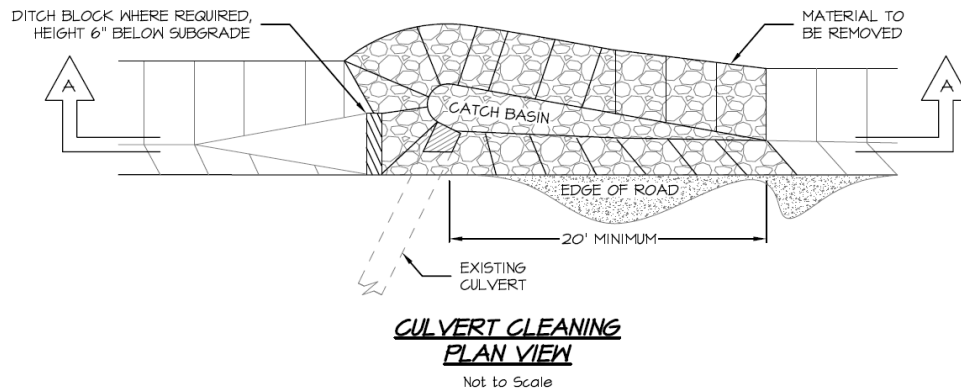
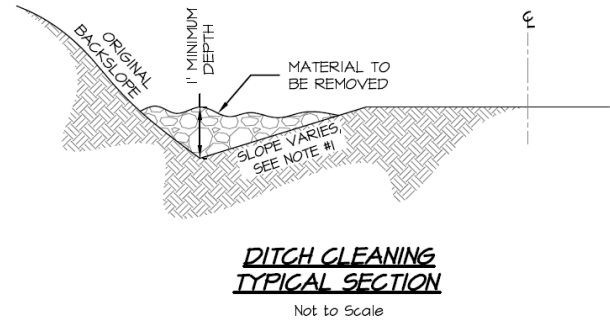
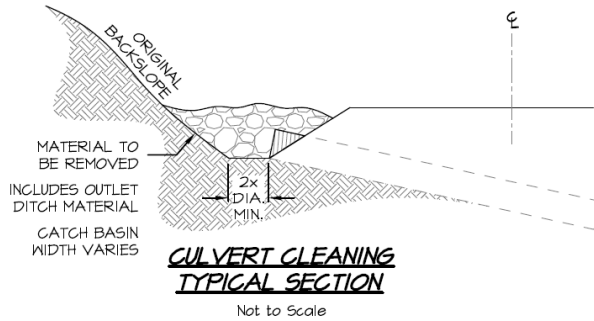
Shape lead-off ditches to drain away from the traveled way.

Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
NA

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region



### NOTES:

1. DITCH SLOPE VARIES FROM 4V:3H, TYPICAL, TO A 4V:2H MINIMUM ALONG WIDTH RESTRICTED ROAD SEGMENTS. CLEAN AS DIRECTED BY CONTRACTING OFFICER.
2. DISPOSE OF EXCESS MATERIALS AT DESIGNATED WASTE AREAS.

T-831 & T-834 TYPICALS (11/14)

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### **T - 832 REMOVE AND END HAUL MATERIALS (05/07)**

#### 832.01 Description

Work consists of loading, hauling, and placing of slide, slough, or excess materials such as rock, soil, vegetation, and other materials to designated disposal sites.

#### 832.02 Maintenance Requirements

- A. Remove, end haul, and dispose of excess materials generated by work under other Sections of this contract.
- B. Remove the slide and slough materials in the area extending approximately 6 feet vertically above the road surface and not more than 3 feet down slope from the roadbed. Dispose of material at designated sites as SHOWN ON THE DRAWINGS, identified in SUPPLEMENTAL SPECIFICATIONS, or as ordered by the STATE.  
  
Reshape the slope which generated the slide material as nearly as practical to its original condition by equipment operating from road surface. Reshaping of roadside ditches in slide area shall be in accordance with Section T-831.
- C. When approved by the STATE, fill slumps by compacting selected materials into roadway depressions. Compaction is by Method 2.
- D. Place all materials in disposal sites as specified in the SUPPLEMENTAL SPECIFICATIONS, as SHOWN ON THE DRAWINGS, or as ordered by the STATE.
  - 1. Method 1 - Side Casting and End Dumping. Material may be placed by side casting and end dumping. Where materials include large rocks, provide a solid fill by working smaller pieces and fines into voids. Shape the finished surfaces to drain.
  - 2. Method 2 Layer Placement - Step or roughen surfaces on which materials are to be placed prior to placing any material. Place materials in approximately horizontal layers no more than 12 inches thick. Compact each layer by operating hauling and spreading equipment over the full width of each layer.
- E. Repair any damage to existing aggregate or pavement surfaces.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 834 DRAINAGE STRUCTURE MAINTENANCE (10/07)

#### 834.01 Description

This work consists of cleaning and reconditioning culverts and other drainage structures.

#### 834.02 Maintenance Requirements

- A. Clean drainage structures, inlet structures, culverts, catch basins, and outlet channels specified in the SUPPLEMENTAL SPECIFICATIONS. Clean catch basins by removing the material within the area SHOWN ON THE DRAWINGS.
- B. Clean the transition from the ditch line to the catch basin a distance of 10 feet from the catch basin. Clean outlet channels and lead-off ditches a distance of 6 feet. Remove and place debris and vegetation so as to not enter the channel or ditch, or obstruct traffic. Haul debris and vegetation to a designated disposal area in accordance with Section T-832.
- C. Hydraulic flushing of drainage structures is not allowed unless provided for in the SUPPLEMENTAL SPECIFICATIONS.

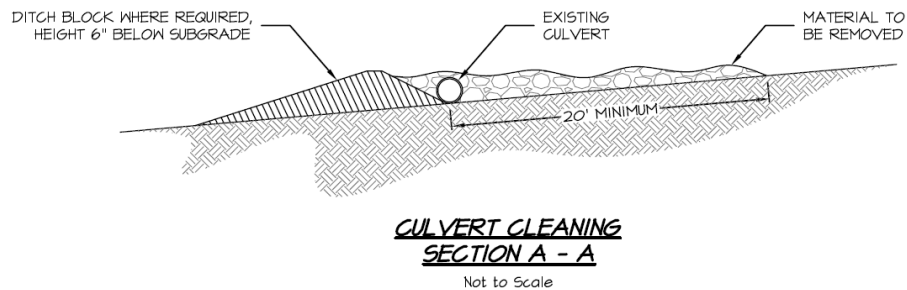
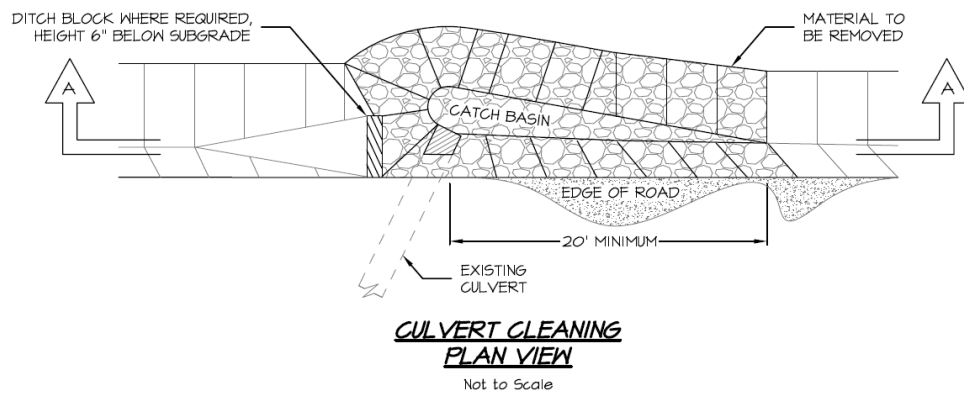
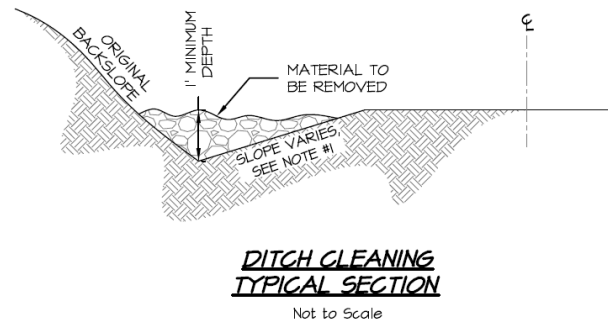
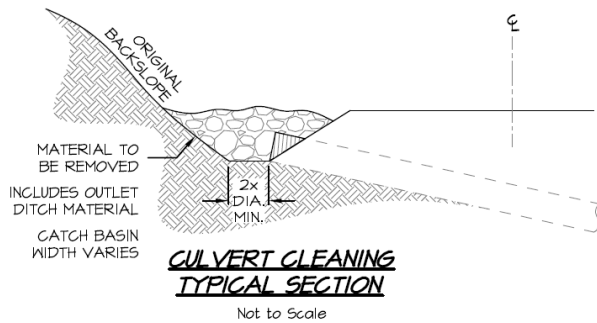
Cleaning and reconditioning are limited to the first 3 feet of inlet and outlet, determined along the top of the structure. Recondition culvert inlet and outlet by field methods such as jacking out or cutting away damaged metal which obstructs flow. Treat cut edges with a zinc rich coating, in accordance with AASHTO M 36M and ASTM A 849.

- E. Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

Invasive Species of Concern Prevention Practices
NA

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region



### NOTES:

1. DITCH SLOPE VARIES FROM IV:3H, TYPICAL, TO A IV:2H MINIMUM ALONG WIDTH RESTRICTED ROAD SEGMENTS. CLEAN AS DIRECTED BY CONTRACTING OFFICER.
2. DISPOSE OF EXCESS MATERIALS AT DESIGNATED WASTE AREAS.

T-831 & T-834 TYPICALS (11/14)

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 836 MAINTENANCE FOR LIMITED USE (05/07)

#### 836.01 Description

This work consists of making limited use roads passable for joint use by Purchaser and high clearance vehicles, and providing drainage from the traveled way and roadbed.

#### 836.02 Maintenance Requirements

##### A. Traveled Way

Purchaser may smooth or fill existing cross ditches and water bars and by agreement modify existing road junctions to enable vehicle access. Prior to beginning haul and resumption of haul after an extended stoppage:

1. Remove brush, fallen trees, rocks, and other debris from traveled way, including turnouts, turnarounds, and other locations that interfere with needed maintenance as follows:
  - a. No object extending over 4 inches above the road surface shall remain within the 12 feet usable traveled way and 10 feet turnout widths. Center the usable width on the roadbed or position away from the fill slope.
  - b. Cut and remove standing or down trees, logs, brush, and limbs from within the area described in 1 a. above. Remove all encroaching limbs to a height of 14 feet above the traveled way surface. Scatter material not meeting utilization standards outside and below the roadbed on the fill side. Limb and remove timber which meets utilization standards or deck at agreed locations.
  - c. Place all removed materials away from drainages.
  - d. During use, maintain drainage structures, including dips, ditches and culverts in a useable condition.
2. Clean and recondition drainage facilities in accordance with: Section T-831 and T-834.

##### B. Slough and Slides

1. Slough and slides may be left in place, provided surface drainage is provided and at least 12 feet of width is available for vehicle passage.
2. Purchaser may reposition or ramp over slides and slough when the traveled way width is less than 12 feet providing the material is capable of supporting vehicles. Limit out slope to no more than six percent.
3. Reposition slough or slide materials on the roadbed which are not capable of supporting a vehicle to provide the 12 foot width. When directed by the Contracting Officer, slough or slide material will be removed under Section T-832.

##### C. Slumps and Washouts

1. Drain the roadbed immediately upgrade of slumps and longitudinal cracks to prevent water from entering slump area.
2. Slumps and longitudinal cracks at the edge of the roadbed shall not be considered a part of the usable width. Usable width may be reduced to 10 feet in the area of the slump.
3. Unless the Contractor Officer agrees to material being placed on slumps, ramp the slumps on both ends into undisturbed roadbed to provide at least 10 feet usable width. Use removed materials to guide vehicles to the ramp location or to aid in draining the area.
4. Washouts may be filled with suitable material.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### D. Post haul

At the end of hauling or prior to entering into seasonal shutdowns or a period of extended inactivity:

1. Shape the traveled way and disturbed roadbed to provide functional drainage.
2. Reinstall removed cross ditches and water bars and provide any additional drainage structures necessary to offset changes caused through use and maintenance.
3. Leave roads useable for high clearance vehicles. Remove or reshape purchaser modifications at road junctions to leave the entrance as it was before use, or as agreed at the time of improvement.

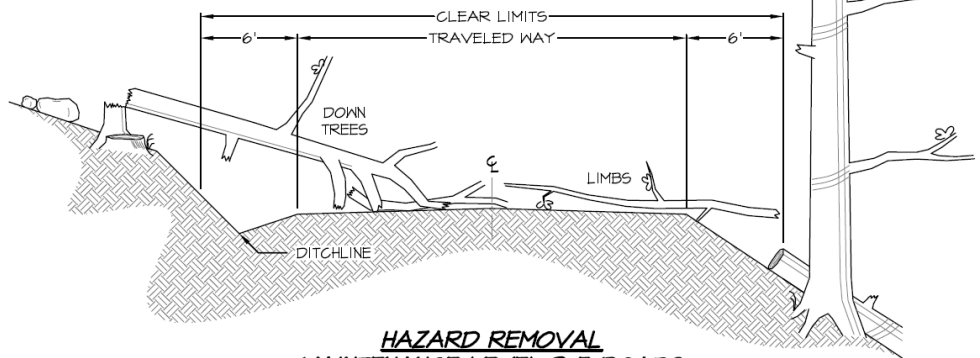


# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### NOTES:

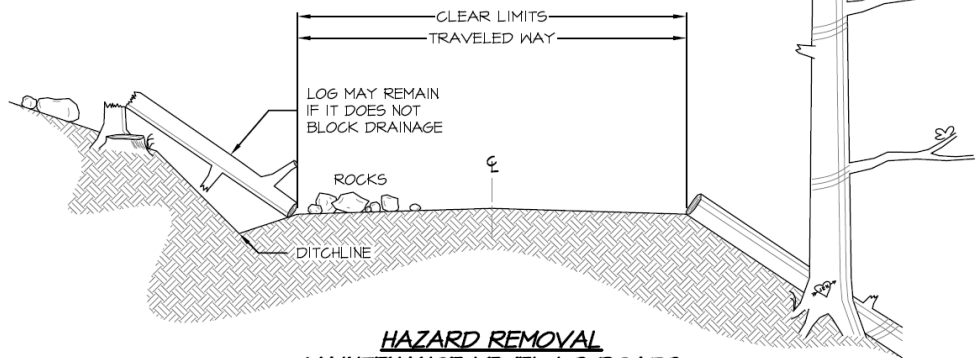
1. OPEN ROAD TO A MINIMUM CLEAR WIDTH AS SHOWN.
2. REPOSITION DOWN TREE SECTIONS PERPENDICULAR TO THE ROAD CENTERLINE SO AS NOT TO ROLL.
3. REMOVE DOWN TREES, ROCKS, LIMBS AND OTHER DEBRIS OVER 3" IN HEIGHT.
4. MAINTAIN DRAINAGE STRUCTURES INCLUDING DIPS, DITCHES AND CULVERTS IN ACCORDANCE WITH T-831, T-832 AND T-834.



Not to Scale

### NOTES:

1. OPEN ROAD TO A 12' MINIMUM CLEAR WIDTH.
2. REPOSITION DOWN TREE SECTIONS PERPENDICULAR TO THE ROAD CENTERLINE SO AS NOT TO ROLL.
3. REMOVE DOWN TREES, ROCKS, LIMBS AND OTHER DEBRIS OVER 3" IN HEIGHT.
4. MAINTAIN DRAINAGE STRUCTURES INCLUDING DIPS, DITCHES AND CULVERTS IN ACCORDANCE WITH T-831, T-832 AND T-834.



Not to Scale

T-836, T-838 & T-839 TYPICALS (11/14)

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### T - 842 CUTTING ROADWAY VEGETATION (10/07)

#### 842.01 Description

This work consists of cutting all vegetative growth, including trees and other vegetation less than 4 inches in diameter measured 6 inches above the ground, on roadway surfaces and roadsides.

#### 842.02 Maintenance Requirements

##### A. General

1. Cut brush, trees, and other vegetation within each area treated to a maximum height of 6 inches above the ground surface or obstruction such as rocks or existing stumps. When work is performed under this Section, remove all limbs which extend into the treated area, or over the roadbed, to a height of 14 feet above the traveled way surface elevation.
2. Items to remain will be DESIGNATED ON THE GROUND.
3. Work may be performed either by hand or mechanically unless specifically shown in the Road Listing. Self-propelled equipment is not allowed on cut and fill slopes or in ditches.
4. Correct damage to trunks of standing trees caused by Purchaser's operation either by treatment with a commercial nursery sealer or by removing the tree as directed by the STATE.
5. Limb trees within the cutting limits which are over 4 inches -measured at 6 inches above the ground in lieu of cutting.
6. When trees are limbed, cut limbs within 4 inches of the trunk.

##### B. Cutting Side Vegetation

1. Show the width of vegetation to be removed in the Road Listing.
2. Unless otherwise included in the SUPPLEMENTAL SPECIFICATIONS or DESIGNATED ON THE GROUND:
  - a. Commence work at the edge of the traveled way and proceed away from the road centerline.
  - b. Roads without a defined traveled way: The starting point for cutting will be marked on the ground or defined in the SUPPLEMENTAL SPECIFICATIONS.
3. The points for establishing cutting limits are as follows:
  - a. Fill and day lighted (wide roadbed) section cutting commences at the edge of the traveled way and proceeds away from the road center line.
  - b. Drainage ditched section cutting commences at the bottom of the existing ditch and proceeds away from the road center line. Cutting on ditch fore slopes is not required.
  - c. Non-ditched cut section cutting commences at the intersection of the cut bank and the roadbed and proceeds away from center line.
4. Provide transitions between differing increments of cutting width. Accomplish transitions in a taper length of not less than 50 feet or more than 70 feet.

##### C. Debris

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

1. Materials resulting from the cutting operation in excess of 12 inches in length or 3 inches in diameter are not allowed to remain on roadway slopes within the treated area, in ditches, or within water courses.
2. Remove limbs and chunks in excess of 3 inches in any dimension from the traveled way and shoulders.
3. Materials may be scattered down slope from the roadbed, outside of the work area and drainages unless otherwise listed in D. Invasive Species of Concern.

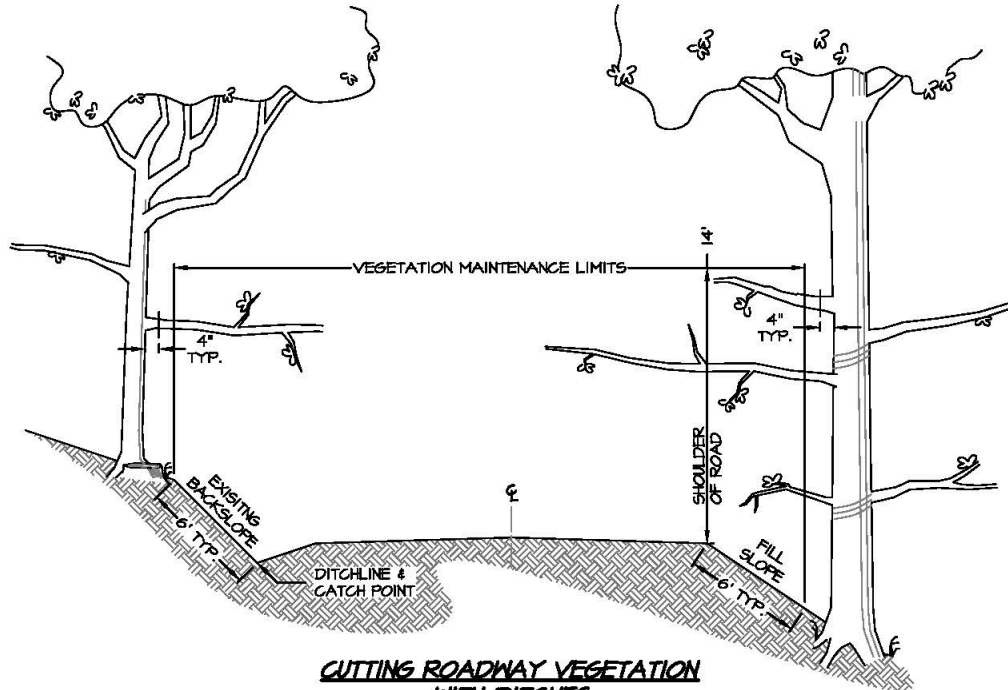
### Invasive Species of Concern

Where DESIGNATED ON THE GROUND, included in the ROAD LISTING, SHOWN ON THE DRAWINGS or as ordered by the STATE invasive species of concern prevention practices shall be followed as listed below.

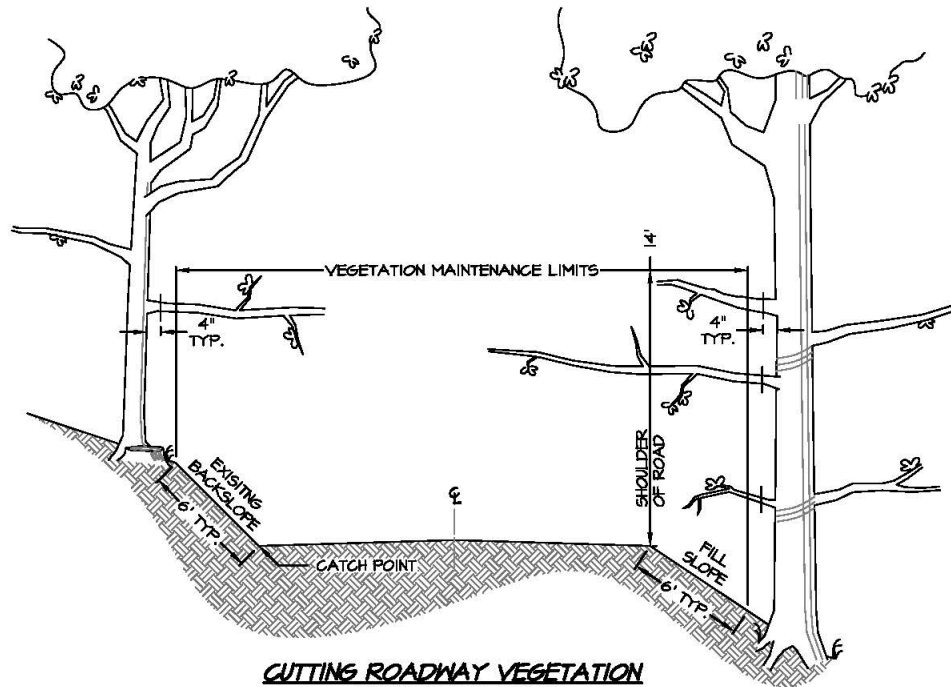
Invasive Species of Concern Prevention Practices
NA

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region



Not to Scale



Not to Scale

### NOTES:

1. EXTEND AN ADDITIONAL 5' ON THE INSIDE OF HORIZONTAL CURVES, WHERE DIRECTED BY CONTRACTING OFFICER, TO REDUCE OBSTRUCTIONS IN SIGHT DISTANCE.

T-842 TYPICALS (11/14)

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### **T - 854 TREATMENT AND DISPOSAL OF DANGER TREES (5/07)**

#### 854.01 Description

This work consists of felling and disposal of designated live or dead danger trees sufficiently tall to reach roads used by the Purchaser. Any removal of logs is subject to prior agreement between the Contractor Officer and the Purchaser.

#### 854.02 Requirements

A. Designation of danger trees.

Danger trees to be felled will be designated in advance by the STATE. Trees to be removed will be marked.

B. Falling, bucking and treatment for disposal.

Use controlled felling to ensure the direction of fall and prevent damage to property, structures, roadway, residual trees, and traffic. Stump heights, measured on the side adjacent to the highest ground, must not exceed 12 inches or 1/3 of the stump diameter, whichever is greater. Higher stump heights are permitted when necessary for safety.

Felled snags and trees, which are not marked for removal, will be left in a stable condition such that they will not roll or slide. Position logs away from standing trees so they will not roll, are not on top of one another, and are located out of roadway and drainage structures.

Fell, limb and, remove trees, which are marked for removal, that equal or exceed the utilization standards as listed in the Timber Sale contract or SUPPLEMENTAT SPECIFICATIONS. Dispose of merchantable timber designated for removal in accordance with B/BT2.32 Construction Clearing, of the Timber Sale Contract, or as described in SUPPLEMENTAL SPECIFICATIONS.

C. Slash treatment.

Within the roadway, remove limbs, chunks, and debris in excess of 12 inches in length and 3 inches in diameter, and concentrations that may plug ditches or culverts, and water courses.

Dispose of slash by scattering outside the roadway limits without damaging trees, or improvements.

Large accumulations of slash may be ordered hauled under T-832.

# STANDARD ROAD MAINTENANCE SPECIFICATIONS

## Pacific Northwest Region

### **T - 891 WATER SUPPLY AND WATERING (5/07)**

#### 891.01 Description

This work consists of providing facilities to furnish an adequate water supply, hauling and applying water.

#### 891.02 Materials

If the Purchaser elects to provide water from other than designated sources, the Purchaser is responsible to obtain the right to use the water, including any cost for royalties involved.

Suitable and adequate water sources available for Purchaser's use under this contract are designated as follows:

All water sources are designated by the STATE

#### 891.03 Equipment

- A. Positive control of water application is required. Equipment shall provide uniform application of water without ponding or washing.
- B. An air gap or positive anti-siphon device shall be provided between the water source and the vehicle being loaded if the vehicle has been used for other than water haul, if the source is a domestic potable water supply, or the water is used for tank mixing with any other materials.
- C. The designated water sources may require some work prior to their use. Such work may include cleaning ponded areas, installing temporary weirs or sandbags, pipe repair, pump installation or other items appropriate to the Purchaser's operations. Flowing streams may be temporarily sandbagged or a weir placed to pond water, provided a minimum flow of 10 cu. ft/sec is maintained. Obtain approval from the STATE on improvements for sandbags or weirs prior to placement.

# U.S. DEPARTMENT OF AGRICULTURE – FOREST SERVICE

## BRIDGE USE APPLICATION AND PERMIT

### 36CFR 261.12, and 261.54(c)

DATE RECEIVED: _____	<u>EFFECTIVE DATES OF PERMIT</u>	(Section for Forest Service Use Only)
PERMIT NO.: _____	BEGINNING: _____	TERMINATING: _____
EXCLUDING: _____		

PERMITTEE/APPLICANT: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ FAX: \_\_\_\_\_  
 REASON FOR PERMIT: ☐ TIMBER SALE: \_\_\_\_\_  
                                   ☐ CONSTRUCTION CONTRACT: \_\_\_\_\_  
                                   ☐ OTHER: \_\_\_\_\_  
 DESIRED TRAVEL DATES: BEGIN: \_\_\_\_\_ END: \_\_\_\_\_  
 DESIRED TRAVEL ROUTE (Road #'s, Termini & Bridges): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TYPE OF VEHICLE: \_\_\_\_\_  
 TOTAL GROSS WEIGHT: \_\_\_\_\_ POUNDS LICENSE NO: \_\_\_\_\_ STATE: \_\_\_\_\_  
 MAXIMUM DIMENSIONS: LENGTH: \_\_\_\_\_ WIDTH: \_\_\_\_\_ HEIGHT: \_\_\_\_\_

### VEHICLE DESCRIPTION

AXLE NO.	AXLE SPACING FEET & INCHES	AXLE LOAD POUNDS	AXLE WIDTH (OUT – OUT) FEET INCHES	TIRE WIDTH (OUT-OUT) PER WHEEL LINE INCHES	NO. OF TIRES PER AXLE	TIRE SIZE
<u>1</u>	D1 _____ ' _____ "	P1 _____	_____ ' _____ "	_____ "	_____	_____
<u>2</u>	D2 _____ ' _____ "	P2 _____	_____ ' _____ "	_____ "	_____	_____
<u>3</u>	D3 _____ ' _____ "	P3 _____	_____ ' _____ "	_____ "	_____	_____
<u>4</u>	D4 _____ ' _____ "	P4 _____	_____ ' _____ "	_____ "	_____	_____
<u>5</u>	D5 _____ ' _____ "	P5 _____	_____ ' _____ "	_____ "	_____	_____
<u>6</u>	D6 _____ ' _____ "	P6 _____	_____ ' _____ "	_____ "	_____	_____
<u>7</u>	D7 _____ ' _____ "	P7 _____	_____ ' _____ "	_____ "	_____	_____
<u>8</u>	D8 _____ ' _____ "	P8 _____	_____ ' _____ "	_____ "	_____	_____
<u>9</u>	D9 _____ ' _____ "	P9 _____	_____ ' _____ "	_____ "	_____	_____
<u>10</u>	D10 _____ ' _____ "	P10 _____	_____ ' _____ "	_____ "	_____	_____

#### SIGNATURE OF APPLICANT:

SIGNATURE: \_\_\_\_\_  
 \_\_\_\_\_  
 (Print Name)  
 TITLE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

NAME OF REGISTERED PROFESSIONAL ENGINEER EVALUATING BRIDGE(S)  
 FOR ABOVE VEHICLE: \_\_\_\_\_ (PE)

#### FOREST BRIDGE INSPECTION PROGRAM MANAGER RECOMMENDATION AND REGIONAL BRIDGE ENGINEER CONCURRENCE

SUBJECT TO PROVISIONS AND ATTACHMENTS INCLUDED HEREIN

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Forest Bridge Inspection Program Manager

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 R-6 Regional Bridge Engineer

### APPROVAL OF PERMIT

PERMISSION IS HEREBY GIVEN TO THE ABOVE APPLICANT FOR THE USE OF THE DESIGNATED BRIDGE(S) IN THE MANNER DESCRIBED, SUBJECT TO THE PROVISIONS AND ATTACHMENTS INCLUDED WITH THIS PERMIT

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TITLE: \_\_\_\_\_  
 Forest Supervisor