

TRAFFIC CONTROL PLAN AND SPECIFICATIONS PURSUANT TO GT.3.3 SAFETY

Unless otherwise agreed, the following measures are required to provide adequate warning of hazards for users of roads and trails adjacent to Contractor's Operations.

Part I. Signing and Other Warning Methods:

(a) Signs. The following signs are required when Contractor's Operations are in progress adjacent to or on Forest Service controlled roads and trails:

<u>MINIMUM LETTER SIZE AND LEGEND</u>	<u>MINIMUM SIZE AND SHAPE</u>	<u>WHEN AND WHERE REQUIRED</u>
1. LOGGING OPERATIONS NEXT <> MILES (4" letters)	24" (rectangle) 36"	Min. 100 ft. outside of any continuous work areas, on roads listed in KT-FT.3.1# and trails listed in Part II.
2. LOGGING OPERATIONS (3" letters)	24" (diamond) 24"	To be used in conjunction with "Logging Operations Next <> Miles" and where work area is not continuous.
3. FOR LOGGING USE ONLY (3" letters)	24" (diamond) 24"	Required where roads listed in KT-FT.3.1# and temporary roads intersect with KT-FT.3.1# roads. Install a cross ditch to discourage use when sign is covered or removed for extended periods.
4. TRUCKS (4" letters)	24" (diamond) 24"	At critical intersections on roads listed in KT-FT.3.1# when traffic is heavy or otherwise exceeds volumes stated in Part II below. Remove or cover when the sign is not applicable.
5. END LOGGING OPERATIONS (4" letters)	24" (rectangle) 36"	Use in conjunction with "Logging Operations Next <> Miles" and "Logging Operations."
6. TREE FELLING AHEAD (3" letters)	24" (diamond) 24"	Required 200 feet in advance of danger area where timber is being felled adjacent to all roads, including temporary roads, and trails.
7. ROAD MACHINERY AHEAD (3" letters)	24" (diamond) 24"	Required at least 200 feet in advance of Contractor road maintenance operations on roads listed in Schedule KT-FT.3.1#.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - GT.3.3 Safety (continued)

All signs shall meet requirements as specified in Parts I and VI of the Manual of Uniform Traffic Control Devices (MUTCD).

Sign borders and lettering shall be black. Borders are 1/2 inch wide, inset 1/2 inch from outside edge of sign. All sign backgrounds shall be orange, except signs #1 and 5 which shall be reflectorized orange.

Signs shall be installed on posts, with a 5 foot minimum ground clearance, or on temporary supports complying with MUTCD standards.

All signs are to be removed or covered when operations are interrupted for seasonal nonuse or other extended periods.

Contractor shall furnish flag personnel and advance warning signs when cable or helicopter logging above roads or trails, felling adjacent to roads or trails, where logs being bucked may roll into roads or trails, and in areas where fallout from blasting may occur. On roads listed in KT-FT.3.1# and temporary roads, Contractor may temporarily block the road in lieu of furnishing flag personnel.

(b) Barricades. On roads listed in KT-FT.3.1#, if Contractor's Operations cause the traveled way or road shoulders to be constricted overnight, or longer, by such obstructions as decked logs, parked equipment, or piled slash, Contractor shall place barricades on both sides of the encroaching obstruction to safely channel traffic around such obstructions. Barricades shall remain in place until the obstruction is removed.

Barricades shall be Type II and meet specifications in MUTCD, Part VI. Barricades must be at least 3 feet high. Rails must be at least 2 feet long. Striping shall be alternating orange and white, sloping at a 45 degree angle, and reflectorized. For rails 2 feet to 3 feet long, striping shall be 4 inches wide. For rails longer than 3 feet, striping shall be 6 inches wide. Two rails, 8-12 inches in width, must face each direction.

Barricades shall be equipped with warning lights which shall be Type A low intensity flashing and shall be maintained so as to be capable of being visible on a clear night from a distance of 3,000 feet.

(c) Other Traffic Control Methods. The posting of CB channel signs may be authorized.

On roads listed in KT-FT.3.1#, Contractor may be authorized to install temporary gates, barricades (except cables), or natural barriers. The devices must be installed with the necessary hazard markers, be reasonably passable by Forest Service, and be removed prior to acceptance of the subdivision being served by the road.

TRAFFIC CONTROL PLAN AND SPECIFICATIONS - BP6.3.3 SAFETY (continued)

Part II. Specific Requirements:

Sign #1 - Logging Operations Next 0.0 miles will be posted at the junction of Van Creek Road (7520) and Eagle Creek Road (7500) and at the junction of 7401 road and Eagle Creek Road.

Sign #2 - "Logging Operations" sign will be posted at the intersection of Van Creek (7520) and 7805 when logging occurs in P.U. 10 and at intersection of 7401 and 7401-300.

Sign #3 - "For Logging Use Only" post on 7805-110,103,104,113,270 when falling occurs in units 8,9,10. Post on 7520-010 when falling in units 12,13. Post on 7531-100 when cutting in units 17,16 and post at intersections of 7401 and 390,400,500 and 300 spurs.

Sign #4 - "Trucks" will be posted when log haul begins. Post at junction of Van Creek (7520) and the beginning of Eagle Creek (County), sign will face Eagle Creek (7520) when haul comes down 7401 road. Post sign at junction of Van Creek (7520) and junction with East Van Creek (7531); intersection of 7500 and 7401 and intersection 7520 and 7805.

Sign #5 - "End Logging Operations" will be placed at the same locations as Signs 1 and 2 but face the opposite direction.

Sign #6 - "Tree Falling Ahead" is required 200 feet in advance of cutting operations in units 14,11,12 and 18 along 7520 (Van Creek) road; 200 feet in advance of units 1,2,4,7,21 and 22 on 7401 road and 200 feet in advance of unit 10 along 7805 road.

Sign #7 - "Road Machinery Ahead" will be required 200 feet in advance of road maintenance activities on 7520, 7401, 7531 and 7805 roads. Contractor and Forest Service agree to the above stated requirements of the Traffic Control Plan:

_____ Name	_____ Name
_____ Title	_____ Title
_____ Date	_____ Date

TABLE PURSUANT TO KT-FT.1.2# - USE OF ROADS BY CONTRACTOR (9/04)

**Restricted Road List**

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
7520000	VAN CREEK	0.0	2.5	R	No winter log haul
7401400	UNNAMED	0.38	END	P	Use Prohibited

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

Wenatchee National Forest Road Use  
Rules

July 1, 2010

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Commercial Road Rules

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Effective Date

TABLE PURSUANT TO KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/04)  
**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-836	T-838	T-839	T-842	T-854	T-891
7401000	0.00	4.00	4.00	P				P	P	P			P	P	
7401300	0.00	1.28	1.28	P								P		P	
7401310	0.00	0.08	0.08	P								P		P	
<b>7401390</b>	<b>0.00</b>	<b>0.90</b>	<b>0.90</b>	<b>P</b>								<b>P</b>		<b>P</b>	
7401400	0.00	0.38	0.38	P								P		P	
7401500	0.00	0.17	0.17	P								P		P	
7500000	0.00	1.10	1.10	P	P	P		P	P	P				P	P
7520000	0.00	2.50	2.50		P	P	P	P	P					P	P
7520010	0.00	0.94	0.94									P		P	
7520014	0.00	0.17	0.17									P		P	
7520016	0.00	0.33	0.33									P		P	
7531000	0.00	0.40	0.40		P	P		P	P	P				P	P
7531100	0.00	1.66	1.66									P		P	
7531101	0.00	0.17	0.17									P		P	
7531105	0.00	0.64	0.64									P		P	

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

Contract Road Maintenance Requirements Summary (continued)

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-836	T-838	T-839	T-842	T-854	T-891
7805000	0.00	3.90	3.90					P	P	P				P	
7805101	0.00	1.46	1.46								P			P	
7805102	0.00	0.07	0.07									P		P	
7805103	0.00	0.42	0.42									P		P	
7805104	0.00	0.77	0.77									P		P	
<b>7805113</b>	<b>0.00</b>	<b>0.88</b>	<b>0.88</b>								<b>P</b>			P	
7805270	0.00	0.40	0.40								P			P	
7805270	0.40	0.54	0.14									P		P	
7805275	0.00	0.35	0.35									P		P	
7805310	0.00	0.47	0.47								P			P	
7805310	0.47	0.77	0.30									P		P	

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TABLE PURSUANT TO KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/04)  
**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-836	T-838	T-839	T-842	T-854	T-891
7401000	0.00	4.00	4.00	P				P	P	P			P	P	
7401300	0.00	1.28	1.28	P								P		P	
7401310	0.00	0.08	0.08	P								P		P	
<b>7401390</b>	<b>0.00</b>	<b>0.90</b>	<b>0.90</b>	<b>P</b>								<b>P</b>		<b>P</b>	
7401400	0.00	0.38	0.38	P								P		P	
7401500	0.00	0.17	0.17	P								P		P	
7500000	0.00	1.10	1.10	P	P	P		P	P	P				P	P
7520000	0.00	2.50	2.50		P	P	P	P	P					P	P
7520010	0.00	0.94	0.94									P		P	
7520014	0.00	0.17	0.17									P		P	
7520016	0.00	0.33	0.33									P		P	
7531000	0.00	0.40	0.40		P	P		P	P	P				P	P
7531100	0.00	1.66	1.66									P		P	
7531101	0.00	0.17	0.17									P		P	
7531105	0.00	0.64	0.64									P		P	

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Contract Road Maintenance Requirements Summary (continued)

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-836	T-838	T-839	T-842	T-854	T-891
7805000	0.00	3.90	3.90					P	P	P				P	
7805101	0.00	1.46	1.46								P			P	
7805102	0.00	0.07	0.07									P		P	
7805103	0.00	0.42	0.42									P		P	
7805104	0.00	0.77	0.77									P		P	
<b>7805113</b>	<b>0.00</b>	<b>0.88</b>	<b>0.88</b>									<b>P</b>		P	
7805270	0.00	0.40	0.40									P		P	
7805270	0.40	0.54	0.14										P	P	
7805275	0.00	0.35	0.35										P	P	
7805310	0.00	0.47	0.47									P		P	
7805310	0.47	0.77	0.30										P	P	

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TABLE PURSUANT TO KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/04)  
**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-836	T-838	T-839	T-842	T-854	T-891
7401000	0.00	4.00	4.00	P				P	P	P			P	P	
7401300	0.00	1.28	1.28	P								P		P	
7401310	0.00	0.08	0.08	P								P		P	
<b>7401390</b>	<b>0.00</b>	<b>0.90</b>	<b>0.90</b>	<b>P</b>								<b>P</b>		<b>P</b>	
7401400	0.00	0.38	0.38	P								P		P	
7401500	0.00	0.17	0.17	P								P		P	
7500000	0.00	1.10	1.10	P	P	P		P	P	P				P	P
7520000	0.00	2.50	2.50		P	P	P	P	P					P	P
7520010	0.00	0.94	0.94									P		P	
7520014	0.00	0.17	0.17									P		P	
7520016	0.00	0.33	0.33									P		P	
7531000	0.00	0.40	0.40		P	P		P	P	P				P	P
7531100	0.00	1.66	1.66									P		P	
7531101	0.00	0.17	0.17									P		P	
7531105	0.00	0.64	0.64									P		P	

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Contract Road Maintenance Requirements Summary (continued)

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications											
	From	To		T-803	T-811	T-812	T-813	T-831	T-834	T-836	T-838	T-839	T-842	T-854	T-891
7805000	0.00	3.90	3.90					P	P	P				P	
7805101	0.00	1.46	1.46								P			P	
7805102	0.00	0.07	0.07									P		P	
7805103	0.00	0.42	0.42									P		P	
7805104	0.00	0.77	0.77									P		P	
<b>7805113</b>	<b>0.00</b>	<b>0.88</b>	<b>0.88</b>									<b>P</b>		P	
7805270	0.00	0.40	0.40									P		P	
7805270	0.40	0.54	0.14										P	P	
7805275	0.00	0.35	0.35										P	P	
7805310	0.00	0.47	0.47									P		P	
7805310	0.47	0.77	0.30										P	P	

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ROAD MAINTENANCE REQUIREMENTS SPECIFICATION TABLE PURSUANT TO  
KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/04)

1		2		3			4	5	6			7	8	9	
Road No.	Termini From	Termini To	Special Project Specification	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
7401000	0.00	4.00		EX	AI		OPT				EX		JU		P
7401300	0.00	1.28	T-835-02F, T-835-02D	EX	AI		OPT					W	TS	P	P
7401310	0.00	0.08	T-835-02F, T-835-02D	EX	AI		OPT					W	TS	P	P
7401390	0.00	0.90	T-835-02F, T-835-02D	EX	AI		OPT					W	TS	P	P
7401400	0.00	0.38	T-835-02F, T-835-02D	EX	AI		OPT					W	TS	P	P
7401500	0.00	0.17	T-835-02F, T-835-02D	EX	AI		OPT					W	TS	P	P
7500000	0.00	1.10		EX	AI		OPT		OPT				JU		P
7520000	0.00	2.50	T-813-01F	EX	AI		OPT	1-1/2" minus	OPT						P
7520010	0.00	0.94	T-835-02F, T-835-02D	EX	AI		OPT					W		P	P
7520014	0.00	0.17	T-835-02F, T-835-02D	EX	AI		OPT					W		P	P
7520016	0.00	0.33	T-835-02F, T-835-02D	EX	AI		OPT					W		P	P
7531000	0.00	0.40		EX	AI		OPT		OPT						P
7531100	0.00	1.66	T-835-02F, T-835-02D	EX	AI		OPT					W		P	P
7531101	0.00	0.17	T-835-02F	EX	AI		OPT					W			P
7531105	0.00	0.64	T-835-02F, T-835-02D	EX	AI		OPT					W		P	P



ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO  
KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/04)

Column No.	Heading	Entry	Explanation
	Any	Blank	Except as otherwise described, no entry indicates Contractor is not authorized or required to perform the work item(s).
	Any	RC	This work requirement applies only when haul of project related construction materials occurs.
2	Special Project Specification	Number	Entry indicates Special Project Specification which applies.
3	Travel Way	EX	Contractor shall maintain the traveled way to the width existing upon entry, or at the completion of Specified Road work.
		Numbers	Contractor 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	Contractor 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	Contractor may use hand or mechanical means of brushing.
		H	Only hand brushing may be used.

ROAD MAINTENANCE REQUIREMENTS SPECIFICATION CODES TABLE PURSUANT TO  
KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (9/04)

Column No.	Heading	Entry	Explanation
5	Surfacing	Aggregate Grading	Contractor shall place surfacing on roads listed according to the grading indicated.
6	Dust abatement	OPT	Product selection is Contractor's choice from those listed in Section T-812.
		Product Abbr.	Unless otherwise agreed, Contractor 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	Contractor shall abate dust on the existing width
		Numbers	Contractor 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 Contractor prior to nonuse periods.
8	Snow Removal	TS	Snowplowing authorized for Contractor'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	P	P denotes that work is Contractor's Responsibility to perform.

**T-891 - WATER SUPPLY AND WATERING (05/07)**

891.01 Description

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

891.02 Materials

If the Contractor elects to provide water from other than designated sources, the Contractor is responsible to obtain the right to use the water, including any cost for royalties involved. Suitable and adequate water sources available for Contractor's use under this contract are designated as follows:

<u>Map</u> <u>Key No.</u>	<u>Location</u> <u>Road</u>	<u>Location</u> <u>Milepost</u>	<u>Use</u> <u>Restrictions</u>
W	Spur off 7520	Approx. 1.2 Miles above Jct. with 7531	None

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 **NA** cu. ft/sec is maintained. Obtain approval from the Contracting Officer on improvements for sandbags or weirs prior to placement.

**SPECIAL PROJECT SPECIFICATION  
T-813-01F - SURFACING**

In accordance with T-813.01, the following location and amount of aggregate to be placed are hereby DESIGNATED.

Road Number	Location	Amount of Crushed Aggregate (CY Truck Measure)	Aggregate Gradation
7520000	MP 0.00 to MP 2.5*	420	1 ½" minus

\*Specific locations shall be staked by the Forest Service to show location, depth, and width prior to placing aggregate.

SPECIAL PROJECT SPECIFICATION (1/87)

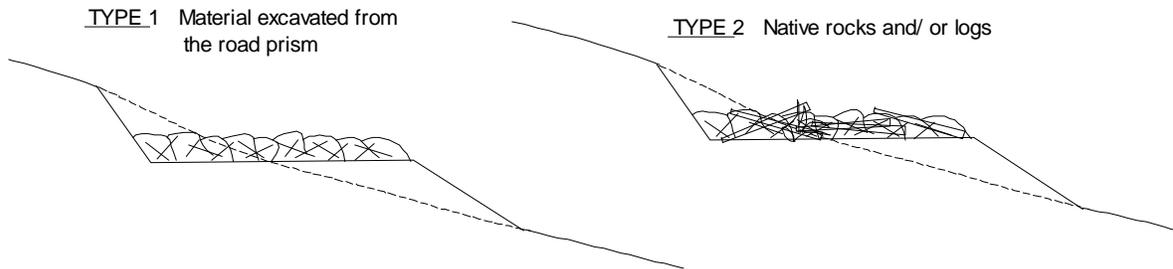
T-835-02D

ROADWAY DRAINAGE MAINTENANCE

WENATCHEE NATIONAL FOREST  
ENTIAT – CHELAN – WENATCHEE RIVER RANGER DISTRICTS

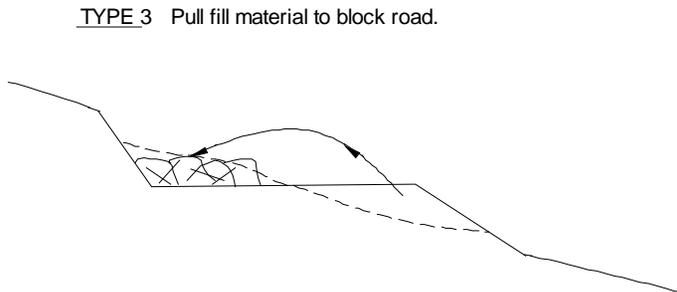
TYPICAL ENTRANCE DEVICES

The intent of the Entrance Device is to obscure the road entrance and effectively eliminate access by motorized vehicles having four (4) wheels and a width in excess of forty (40) inches.



TYPE 1 Material excavated from the road prism

TYPE 2 Native rocks and/ or logs



TYPE 3 Pull fill material to block road.

NOTE:

All dimensions are variable to fit the existing situation and to meet the intent.

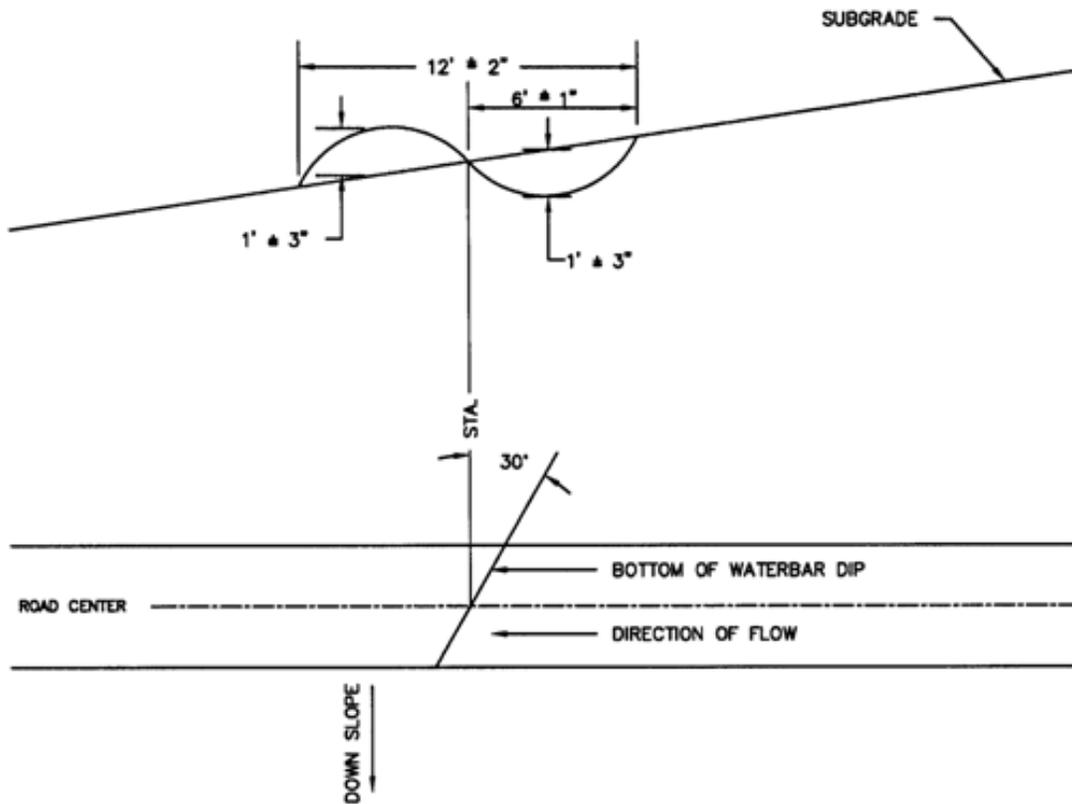
Native materials shall be used unless otherwise agreed.

Combinations of the above Types may be used as agreed.

T-835-02F  
 SPECIAL PROJECT SPECIFICATION (7/05)  
 ROADWAY DRAINAGE MAINTENANCE

WATERBAR INTERVAL TABLE

ROAD GRADE (%)	5	6	7	8	9	10	11	12	12+
MAX SPACING (FT)	350	300	250	225	200	175	150	100	50



TYPICAL WATERBAR DETAIL

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 Contracting Officer. 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

- A. Materials will be Government-furnished when stated in the supplemental specifications.
- B. 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.
- C. 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 Contracting Officer before transport of any materials onto National Forest System land.

The Contracting Officer 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
<i>ALL</i>	A Forest Service weed specialist will inspect proposed sources to determine weed-free status. Provide the Contracting Officer written notification of proposed material sources 10 days prior to use. Written approval of the specific source will be provided to the contractor. If weed species are present in the proposed source, appropriate mitigation measures may allow conditional use of the source as required by the Contracting Officer.

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.

C. Compaction Methods

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.

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

SCHEDULE PURSUANT TO KT-GT.3.1.5# - PROJECT OPERATION SCHEDULE (5/05)

<u>Payment Unit</u>	<u>Operation Conditions</u>	<u>Purpose</u>
ALL	No harvest operations from April 15 to June 1.	Sap Flow Restriction
ALL	No Log Haul on weekends or Federal Holidays. No Log Haul before 6:00 AM or after 8:00PM on weekdays.	Reduce noise along Eagle Creek residential area.
2,3,20	No tree cutting, skidding, yarding or road building operations from June 1 to Labor Day.	Eagle Creek Ranch Outfitter Guide permit.
26	No Helicopter logging within ½ mile of residences before 7:00 AM on weekdays, or 8:00 AM on weekends. Helicopter logging prohibited within ½ mile from residences in Eagle Creek on Memorial Day, 4 <sup>th</sup> of July, Labor Day, Thanksgiving, Christmas and New Years.	Reduce noise in residential areas in Eagle Creek.
8,9,10,11,12,13,14, 15,16,17,18,19	No Winter log haul allowed on road 7520 (Van Creek Rd).	Avoid conflict with groomed snowmobile route.
Unit 10 - that portion of the unit that lies below road 7805101.	No tree cutting, yarding or road building allowed. Log haul could occur from MARCH 1 TO August 31. Restriction could be waived if birds are not nesting.	Goshawk timing restrictions.

TABLE PURSUANT TO KT-GT.4.1# - SPECIFIC REQUIREMENTS (5/05)

<u>FELLING METHODS</u>	<u>PAYMENT UNITS</u>
Directionally fall trees away from private land.	1,4,5,10,19,25
Directionally fall trees away from Area To Protect(ATP)on Contract Area Map.	10
Directionally fall timber to angle in the direction of skidding or yarding.	ALL
Directionally fall trees away from Green Tree Retention Area.	1

<u>FELLING EQUIPMENT</u>	<u>PAYMENT UNITS</u>
As included in the Contractor's Technical Proposal and accepted by the Forest Service.	All

TABLE PURSUANT TO KT-GT.4.2# - YARDING/SKIDDING REQUIREMENTS (5/05)

YARDING/SKIDDING REQUIREMENTS

PAYMENT UNITS

Designated skid trails(multi-pass)will be required. Skid trails will be prelocated to minimize damage to soil and residual trees. Multi-pass skid trails will generally be 100 feet apart, except where they converge at a landing. Skid trail locations will be preapproved by the Forest Service before tree cutting begins. Use old skid trails as much as possible before designating new ones.

7,9,12,13,14,18  
19

All skyline corridors will be prelocated for Forest Service approval before timber cutting begins. Use parallel corridors spaced 150 feet apart, except where terrain dictates the use of radial corridors. One end of the log must be suspended above the ground during inhaul, except when lateral yarding. Full suspension of logs will be required if yarding over any stream identified on the Contract Area Map for streamcourse protection.

1,2,3,4,5,6,8,10  
11,15,16,17,20,21  
22,23,24,25,27

Break all logs free of their beds vertically and suspend logs above ground during inhaul portion of the flying cycle in a manner that prevents damage to residual timber stand and other resources.

26

Yard tops with limbs attached to the top log.

ALL

APPLICATION SCHEDULE PURSUANT TO KT-GT.6.0# - EROSION CONTROL AND SOIL TREATMENT BY CONTRACTOR (5/05)

PAYMENT UNIT OR UNIT NUMBER	AREAS	SEED		FERTILIZER		MULCH	
	A) SKID TRAILS B) FIRELINES C) TEMP. ROADS D) LANDINGS E) CORRIDORS	APPLICATION		APPLICATION		APPLICATION	
	SPECIES <u>1/</u> MIXTURE	LBS/AC	TYPE <u>2/</u>	LBS/AC	TYPE <u>3/</u>	LBS/AC	
ALL	A, C, D, E	BLUE WILDRYE	3	NA	NA	NA	NA
		BLUE BUNCH WHEATGRASS	3				
		CAMBY BLUEGRASS	2				
		IDAHO FESCUE	3				
		MOUNTAIN BROME	3				
		PRAIRIE JUNEGRASS	2				

1/ For projects in Oregon, the seed shall meet the State certification specifications. Seed must be packaged in containers carrying official certification labels sewn in, glued to, or printed upon the container, with the following information:

1. Variety (if certified as to variety) and kind.
2. Quantity of seed (pounds or bushels).
3. Class of certified seed (blue tags for certified seed).
4. Inspection or lot number traceable to the certifying agency's records.

For projects in Washington, the seed shall be labeled as "Prohibited and Restricted Noxious Weed Free for the State of Washington." The Contractor shall furnish a copy of the seed analysis.

For state of California lands in Region 6, seed must be certified by the state of California, or by an independent agency or company that is approved by the state of California for "prohibited and restricted noxious weed free for the state of California."

For mixtures of seed, each ingredient in excess of 5 percent must be listed with its percentage by weight and its germination percentage.

Legumes must be inoculated with nitrogen fixing bacteria before planting. The label must show the expiration date of the inoculant.

All seed treated with a fungicide or pesticide must be labeled that it is "treated" giving the name of the chemical used, and an appropriate warning or a caution statement.

2/ Fertilizer shall be a standard commercial fertilizer with guaranteed analysis of contents clearly marked on containers.

3/ Mulch shall meet the appropriate State's certification specifications, with evidence of its certification traceable to the certifying agency's records.

SPECIFICATIONS PURSUANT TO KT-GT.7.4.2#-SLASH TREATMENT REQUIREMENTS  
(OPTION 2) (6/2010)

**MACHINE PILING OF LANDING SLASH, ALL UNITS**

Only material less than 4 feet in length and 2 inches in diameter at the small end of the piece shall remain unpiled on the landing.

Piles are to be reasonably free of soil and noncombustible material.

Size and location of the pile shall not impair road use or result in damage to residual timber.

Compact piles with no piece extending 6 feet beyond the edge of the pile.

**PILING OF TEMPORARY ROAD SLASH, UNIT 6,19 AND 23**

Piling of temporary road slash will be done in the same manner as for machine piling of landing slash.

**HAND FIRE LINE CONSTRUCTION Payment Units 1,4,5,10,19,25 adjacent to private property.**

Control line cleared to an 18 inches width of exposed mineral soil. Construct cup trench every 90 feet on slope greater than 20%.

Slash is not to be buried in or under berms created during line construction.

Clearing is 10 feet wide inside of unit boundary and 5 feet on the outside exposed edge of the unit as measured from center line of the fireline.

Slash is well dispersed outside clearing limits.

**HANDPILE LOGGING SLASH**

All logging slash within 100 feet of private property boundary is to be piled.

Material from 1 inch up to 4 inches in diameter having a minimum length of 2 feet will be piled.

Locate piles so that burning will cause minimum damage to standing live trees or physical improvements.

Construct piles as compactly as possible, material will be bucked to less than 5 feet with long axis straight up and down hill, piles should be constructed so as not to topple over. Keep piles to a practical size to burn. Cover piles with waterproof material, material will be approved by the Forest Service. Waterproof material shall be placed on the pile and secured with combustible material so the pile will be protected from rain and snow. Place material as a continuous piece from ground surface on one side of the pile to ground surface on the other side covering 95% of the pile, width of covering shall be at least 4 feet.

Performance of stewardship projects shall be in accordance with the following specifications.

**MANDATORY PROJECTS**

Project Number 001 - Hand Fireline Construction - See Attachment A

Project Number 002 - Road Closures - See Attachment A

**OPTIONAL PROJECTS**

Project Number 003 - Mechanical Fuels Treatment - See Attachment A

FOREST SERVICE  
SPECIFICATIONS FOR  
MAINTENANCE OF  
ROADS IN  
STEWARDSHIP CONTRACTS

PACIFIC NORTHWEST REGION

EM 7730-20

04/09/2010

TIMBER SALE CONTRACT

ROAD MAINTENANCE SPECIFICATIONS

<u>SPEC#</u>	<u>SUBJECT DESCRIPTION</u>	<u>DATE</u>
T-803	Snow Removal	05/07/2007
T-811	Blading	10/07/2007
T-812	Dust Abatement	05/07/2007
T-813	Surfacing	10/07/2007
T-831	Ditch Maintenance	10/07/2007
T-832	Remove And End Haul Materials	05/07/2007
T-834	Drainage Structure Maintenance	10/07/2007
T-835	Roadway Drainage Maintenance	05/07/2007
T-836	Maintenance for Limited Use	05/07/2007
T-838	Maintenance for High Clearance Vehicle Use	05/07/2007
T-839	Maintenance for Project Use	05/07/2007
T-841	Vegetation Establishment	05/07/2007
T-842	Cutting Roadway Vegetation	10/07/2007
T-851	Logging Out	05/07/2007
T-854	Treatment and Disposal of Danger Trees	04/09/2010
T-891	Water Supply and Watering	05/07/2007
T-892	Bituminous Products	05/07/2007

SUPPORTING DOCUMENTS FOR MAINTENANCE SPECIFICATIONS

<u>SUBJECT DESCRIPTION</u>	<u>DATE</u>
Cover Content Preface	4/08
Cover Pages	01/08
Intent Use Guide	01/08

**NO DRAWINGS ACCOMPANY THESE SPECIFICATIONS.**

## PREFACE

The Pacific Northwest Region of the Forest Service has developed this book for use in the preparation and administration of maintenance requirements included in Timber Sale Contracts.

Included are the Standard Specifications (Sections) that commonly apply in Timber Sale Contracts. Conditions and requirements specific to individual projects are identified in the Supplemental Specifications.

Supplemental Specifications, which do not change the intent of the parent section, may be approved by the Forests.

This book is available from the Supervisor's Office of any National Forest in Region 6.

## Maintenance Level Requirements

Maintenance Levels - The following are abbreviated descriptions of maintenance levels.

1. Maintenance Level II - Conditions are suitable for high clearance vehicle travel at prudent driving speeds less than 15 mph. Road is maintained in accordance with Section T-836.
2. Maintenance Level III - Minimum conditions are provided for passenger car use. Surface provides moderately convenient travel at prudent driving speeds between 15 and 25 mph with corresponding surface roughness tolerated. The surface meets the following conditions.
  - a. Potholes or washboard in wheel tracks normally do not exceed 2 inches in depth, and should not be of such frequency that traffic tends to widen traveled way to avoid the deformities.
  - b. Surface is drained and substantially retains its cross slope or crown.
  - c. Wheel ruts caused by use shall not be in excess of 3 inches in depth on horizontal curves.
3. Maintenance Level IV - Higher consideration than in Level III is given to comfort and convenience of the passenger car and commercial user at prudent driving speeds above 25 mph. The surface will meet the following conditions:
  - a. Substantially free of chuckholes, wheel ruts, or washboard corrugations. Surface is drained and retains its cross slope or crown.
  - b. Berms of loose surfacing caused by use do not generally exist, except on horizontal curves berms up to 2 inches in depth may be present.
4. Maintenance Level V - the highest degree of consideration is given to user comfort and convenience. Roads are commonly paved or continually dust controlled for travel at speeds of nominally 35 mph. Generally, the surface will meet the following conditions:
  - a. Level IV plus: Surface is consolidated except for limited periods immediately preceding maintenance performance.
  - b. Berms are not acceptable.

INTENT AND USE GUIDE  
SECTION T-803 - Snow Removal (05/07)

INTENT: This Section is for use when it is anticipated that snow removal from roads will be needed during the Normal Operating Season or the Forest determines that Contractor's normal operations require snow removal.

1. Roads authorized to have snow removed are to be shown in the Special Project Specifications (SPS).
2. Contractor is not required to plow listed roads, but is authorized to.

Forest should update Sign Plan in the SPS as needed, taking into account requirements in 803.02 B(7) when Contractor plans to plow.

803.02B(9) Roads that are authorized for snow removal will be coded as either (TS) Removal for Project Use or Removal for Joint (JU) Use, as applicable.

INTENT AND USE GUIDE  
Section T-811-Blading (10/07)

INTENT: For use on native and aggregate travelways. Work is to be performed when shown in the SPS.

1. "Crown or slope of Traveled Way" is as shown in the SPS.

811.02B(1) "Cross-sloped" includes inslope, outsloped, crowned or flat and may be as shown in the SPS or determined by the character of the existing surface.

811.02B(5) Coordinate with your local FS invasive plant specialist to determine if invasive species of concern prevention practices are necessary.

811.02D Compaction shall be shown in the SPS under travelway if needed during the blading process. Show method "A" or "B."

Show compaction method A in the SPS, if that compaction obtainable by the maintenance equipment breaking track during work performance is acceptable.

Show compaction method B if the operation of a 7 to 10 ton Roller is necessary immediately following blading.

Section T-812 - Dust Abatement (05/07)

INTENT: This section is for use to abate dust. It includes standard materials specifications for applying petroleum and non-petroleum products. It is not intended to use this Section for providing a bituminous running surface.

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Coordinating of Documents:

Required by: No other sections.

Requires use of: T-811, when blading is required and T-891, when water is required.

Explanation of Subsections:

A decision needs to be made as to what type of abatement material and the application rate will best work on the existing road surfacing; consider rainfall, temperature and humidity, the availability of water, past performance, the road surface material type and surface condition, and the product cost.

The following specifications may be needed: Water T-891 and Blading T-811. Water T-891 will normally be needed prior to and possibly during product application.

812.02 - Materials must be shown in the Road Listing. Code material as H2O (water), LIGS (Lignin Sulfonate), MG CL2 (Magnesium Chloride), or OPT (Optional). If OPT is shown, then the Contractor may use any of the previous products. Roads to be dust abated must be shown in the SPS as applicable. If bituminous dust palliative products are specified, they must be shown in Road Listing and coded as shown in Section T-892. If water is specified approved sources will be shown in the Road Listing as specified in Specification T-891 with any restrictions on use. Anticipated first and sub sequential rates of application must be shown in the Road Listing.

NOTES: Materials may be delivered at a differing percent solids than that stated in this Section. Adjustments in application rates, measurements and payment will be necessary when this occurs.

812.05(B) - Desired application and/or dilution rates for bituminous dust palliative treatments must be shown on the Drawings and/or described in Special Project Specifications. See the table below for some typical guidelines. Very good references include "Guidelines For Cost Effective Use and Application of Dust Palliatives" by Roads and Transportation Association of Canada, 1987 and various R6 informational write-ups by R6 Regional Pavement Engineer. When water is planned for diluting emulsified bituminous products prior to application, the water will normally be incidental.

Product	Typical First Time Total Application Rate	Typical Percent Solids	Ideal percent P 75micro (P#200)	Recommended Surface Condition
Lignin Sulfonate	1 gal/sy (diluted 50/50)	50%	10-30%	Need an open or loose surface to get optimum penetration, best to loosen upper portion of the surface
MgCl Brine	0.5 gal/sy	30%	10-20%	Penetrates reasonably well, might not need to loosen the surface
CaCl Brine	0.35 gal/sy	38%	10-20%	Penetrates reasonably well, might not need to loosen the surface
CaCl Flake	1.8lbs/sy	77% pure	10-20%	As the flakes absorb water, the CaCl penetrates into the surface
Bit. Dust Palliatives	Varies	Varies	5-20%	There are a number of emulsion and non-emulsion products available. Some will penetrate into the surface without the upper portion of the surface loosened by blading

Blotter material or any other corrective action needed as a result of Contractor's improper application of materials may be ordered and is considered incidental.

812.05(D) - Section T-811 (Blading) should be included in the contract when needed. Ideally, one wants the road properly shaded (re-establish crown, inslope, or outslope) and the road surface permeable so that it can absorb the dust palliative. Some dust palliatives permeate more readily than others, see the above table for suggested surface conditions.

INTENT AND USE GUIDE  
Section T-813 - Surfacing (10/07)

INTENT: For use when limited amounts of aggregate are needed to maintain or protect the road and provide for passage of traffic. The prescribed spot surfacing is not to provide continuous surfacing. The intent of this specification is to replace previously existing surfacing material, not to place new surfacing on roads or portions of roads that have not previously been surfaced. Work is limited to those roads listed in the SPS as applicable. Should not require a crushing setup for this amount of material.

- 813.01            Areas to receive rock will be staked or otherwise designated to reflect location, depth, and width. Total quantities of aggregate are to be shown in SPS and computed as in-place quantities.
  
- 813.02            "Materials" shall be of the gradations shown in the SPS. Gradation designations shall be the same as used in the current Forest Service specifications for construction of roads existing at the time of appraisal.
  
- 813.02C           Coordinate with your local FS invasive plant specialist to determine if invasive species of concern prevention practices are necessary.
  
- 813.03B           Watering may be required when included under Section T-811 in the Special Requirements.

INTENT AND USE GUIDE  
Section T-831 - Ditch Maintenance (10/07)

INTENT: To maintain all types of drainage ditches on all roads when listed in the SPS under the Ditch Maintenance column.

831.02 Contractor has full latitude in determining cleaning method unless it causes road or environmental damage. Contractor is responsible for any damage to cleaning operations including end haul resulting from undercutting backslopes.

831.02D Material from ditch-cleaning operations is not intended to contaminate aggregate or bituminous-surfaced roads.

831.02I Coordinate with your local FS invasive plant specialist to determine if invasive species of concern prevention practices are necessary.

INTENT AND USE GUIDE  
Section T-832 - Remove and End Haul Materials (05/07)

INTENT: For removal and disposal of slide or slough or excess materials not needed in the maintenance of the roadway when shown in the SPS (Road Listing) under "Slough & Slide Removal" column. Work does not include that of an extraordinary nature as defined in SPS. Haul of materials directly attributable to Contractor's operations (maintenance and logging damage) may use the designated sites.

832.02A Slides which are work of an extraordinary nature should be removed by reconstruction or under I(T).3 if applicable.

Forests are to prepare Special Project Specifications and/or drawings showing designated disposal sites and method of placement of the materials.

INTENT AND USE GUIDE  
Section T-834 - Drainage Structure Maintenance (10/07)

INTENT: To maintain the uninterrupted flow of water through existing drainage structures. It is not intended to be used to replace structures.

834.02B            If feasible, debris and vegetation removed under this Section shall be placed (tossed) within a reasonable distance. Necessary haul of materials disposal areas shall be performed under Section T-832 requirements. Follow the invasive species of concern prevention practices shown in 834.02E if applicable.

834.02D            Reconditioning of the structure is limited to work that can be done by reaching from the outside of the structure. Contractor's personnel are not required to enter the culvert to perform this work.

834.02E            Coordinate with your local FS invasive plant specialist to determine if invasive species of concern prevention practices are necessary.

INTENT AND USE GUIDE  
Section T-835 - Roadway Drainage Maintenance (05/07)

INTENT: When listed in the SPS under Routine Maintenance and/or Post Sale column shall be completed prior to seasonal periods of precipitation or runoff and upon completion of use of the road. This Section is to provide drainage on roads to be operated as Maintenance Level I after haul of timber products.

835.01                    When listed in the SPS work is intended for both existing closed roads and roads constructed by the Contract and to be closed.

835.02C                 Insert Special Project Specification (SPS) which will show dimensions, materials, etc., for the entrance devices.

INTENT AND USE GUIDE  
Section T-836 - Maintenance for Limited Use (05/07)

INTENT: For making road passable for Contractor's use and high clearance vehicles and to provide for drainage. This Section is applicable to Level II roads where we do not intend to discourage or prohibit recreation traffic during active Contract use.

- 836.02A Contractor may improve road junction to enable access but must return it to a condition agreed to at the time of improvement. Return to agreed condition is to be done at the end of hauling or during extended periods of Inactivity. If hauling extends into fall runoff periods, some work may need to be done to assure drainage, even though it may make haul slower.
- 836.02A,B,C Contractor must perform listed work prior to hauling or resuming work after extended periods of inactivity.
- 836.02D Contractor shall perform protective work after hauling or prior to periods of extended inactivity. In addition to previous comments 02A and 02D, if Contractor haul is extended into probable snowfall periods, agreement should be documented on what must be done now and what can be deferred until first snowfall.
- 836.02B(3) Forest Service may direct slough and slide removal under Section T-832.
- 836.02C(3) No material shall be placed on slumped areas unless approved by Forest Service. This is to prevent overloading slumps so they continue to move, as well as to prevent the use of improper materials.

INTENT AND USE GUIDE

Section T-838 - Maintenance for High Clearance Vehicle Use (05/07)

INTENT: To provide drainage and Contractor/administrative vehicle passage on Level II (accept high clearance) maintenance roads when shown on SPS as prehaul and/or routine maintenance. Section T-838 should normally be adequate for both prehaul and routine maintenance. It is not intended to return the road to maintenance Level III standards. Public access is not planned, but may occur on these roads.

This specification is to be used for existing roads where public access is not planned but may be accepted, and for roads constructed or reconstructed for the Contract where public access is not planned but may be accepted. These roads will be left open at the end of project use for some time.

Section T-838 should not be used in lieu of needed reconstruction. Roads that have not been constructed to a 12-foot minimum width in the past, roads that need permanent improvements to existing road junctions, or roads requiring some type of work in excess of minimal work to make roads passable for project use should be included in the contract as a specified road.

838.02B(3) Slides and slough not capable of supporting vehicles shall be removed under Section T-832.

INTENT AND USE GUIDE  
Section T-839 - Maintenance for Project Use (05/07)

INTENT: To maintain roads which will normally be Maintenance Level I after use and/or listed in the SPS routine maintenance and/or prehaul. Section requires work to protect the road and adjacent resources to be performed and authorizes Contractor to perform other minimal work as necessary for access. It is not intended to return the road to Maintenance Level III standards. Contractor would normally keep road blocked or signed to discourage public use.

This specification is to be used for existing Level I roads to be used for Contracts, and for Level I roads constructed or reconstructed for the Contract when the roads are to be closed at the end of project use.

Section T-839 should not be used in lieu of needed reconstruction. Roads that have not been constructed to a 12-foot minimum width in the past, roads that need permanent drainage structures, roads that have a considerable amount of standing trees over approximately 4" diameter within the roadway, or roads requiring some type of work in excess of minimal work as necessary for access should be included in the contract as a specified road.

- 839.02A Contractor is "authorized" to perform listed minimum work necessary for Contractor access. In addition, Contractor is "authorized" to provide drainage that may be necessary for access such as cleaning ditches and culverts to provide a stable roadbed. The Contractor is not required to perform this work.
- 839.02A(1) Contractor may improve entrances as mutually agreed, but they shall be reshaped as agreed as part of final requirements.
- 839.02A(4) Contractor is authorized to remove brush from travelway and other areas as needed to perform the maintenance. It is the intent that the road would be brushed only as Contractor's needs indicate.
- 839.02B Prior to seasonal periods of anticipated rains and runoff, Contractor "shall" provide the maintenance work listed.
- 839.02B(2) In addition to reinstalling cross ditches and waterbars, Contractor shall install additional necessary ones when staked and notified.

INTENT AND USE GUIDE  
Section T-841 - Vegetation Establishment (05/07)

INTENT: To facilitate establishment of vegetation on roadways, roadsides, and/or disposal areas for roads listed in the SPS.

- 841.01            Show in the Special Project Specifications (SPS) the roads, areas of road, and/or disposal area to be treated.
- 841.02A           Show percent of Nitrogen, Phosphorus, Potassium, and Sulfur. Use percentages normally available when purchasing commercial fertilizer and fertilizer with record of success in area. Show application rate in pounds per acre. If there is a concern over fertilizer burn of seed, use additional wording under 841.02D to require separate application or a maximum exposure of seed and fertilizer prior to application.
- 841.02B           Specify seed type and application rate in pounds per acre.
- 841.02C           Specify mulch type and application rate, if any. If mulch is to be applied after seed and fertilizer application to assure all seeds are in ground contact, use 841.02D to require successive application.
- 841.02D           Specify application schedule as necessary. Keep in mind that some seeds will lose viability if applied without reasonable conditions for germination within the season. It may be better to specify ground moisture or certain months of the year instead of "upon completion of earthwork."

INTENT AND USE GUIDE

Section T-842 - Cutting Roadway Vegetation (10/07)

INTENT: To remove vegetation from roads listed in the SPS to provide for a greater degree of safety and facilitate maintenance.

- 842.01            Use reconstruction when vegetative growth needing to be cut is larger than 4 inches in diameter or grubbing will be required. This Section is neither intended to be used outside the existing cleared roadside nor to widen existing clearing. However, a Special Project Specification (SPS) may be added to include a limited number of larger trees.
- 842.02A(1)        Brushing need not be continual throughout the road. Brushing Sections may be identified in the SPS (Road Listing) through use of the "termini" column.
- 842.02B           The SPS shall show width and side(s) of road to be cut or insert "as staked" under the "brushing and log out" column.
- 842.02D           Coordinate with your local FS invasive plant specialist to determine if invasive species of concern prevention practices are necessary.

INTENT AND USE GUIDE  
Section T-851 - Logging Out (05/07)

INTENT: When shown the SPS, to remove trees which have been deposited within the roadway by natural occurrences. This Section is intended to be used for minor volumes of windfall merchantable material. Large volumes of merchantable timber should be handled through a salvage or small Contract.

851.02B                    Forest may write Special Project Specification to allow cutting of material to a greater width and to prescribe other treatments of the debris and logs.

INTENT AND USE GUIDE

Section T-854 Treatment and Disposal of Danger Trees (05/07)

Include "Special Project Specification: "Disposal of Felled Danger Trees on Lands Not Administered by the Forest Service" when Contract operations include haul across private.

INTENT AND USE GUIDE  
Section T-891 - Water Supply and Watering (05/07)

INTENT: To provide water for maintenance needs.

- 891.01 This section is applicable when Section T-812 requiring water is included in the SPS as a dust palliative. It is also applicable to Section T-811 and T-813 when water is needed for work to be performed under Section T-811
- 891.02 Water source locations and conditions for use must be shown in the Special Project Specification.
- 891.03B Splash plates, circulating bars, or noncirculating spray bars are acceptable under this specification as long as they produce an acceptable job. If a specific application limits the application (such as needing a full circulating spray bar for emulsion/water mixes under Section T-812), use a Special Project Specification showing the affected Section of the Specifications.
- 891.03C Water source improvement is intended to be for road maintenance use and be minimal under this Section. Improvement is not to constitute significant development (construction).

INTENT: Bituminous products are to meet established criteria.

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Coordinating of Documents:

Required by: 812 for Bituminous dust palliatives

Requires use of: None.

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Explanation of Subsections:

892.02 Use the product designations contained in Table 892-1 when including bituminous products in the Road Listing.

If a non-standard bituminous dust palliative not listed in Table 892-1 is desired then a SPECIAL PROJECT SPECIFICATION needs to be issued that addresses the products material requirements. The product should be manufactured for dust abatement purposes. One will find that the amount of solids and dilution ratio of these products varies from manufacture to manufacture. Collect information on the product such as; past performance, location of use, and amount of traffic the product was subjected to during its use.