

C2.301# - CUTTING UNIT BOUNDARIES. (9/01)

Cutting Unit Boundary Designation Table		
Cutting Unit(s)	Paint Color	Designation
All	Orange	Orange stripes of paint on two sides of the cutting unit boundary trees facing the direction of the adjacent boundary trees and an orange stripe of paint on one side of the boundary tree facing the area to be cut. Boundary trees are also marked with orange paint below stump height. Cutting unit numbers are painted on approximately every 5 th boundary tree. Boundaries along Federal, State, County or National Forest System roads (identified on Sale Area Map) are not marked.

C5.12# - USE OF ROADS BY PURCHASER. (6/99)

Restricted Road List Table					
Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
804	Sandstone Basin	Jct 801	End	P	Use Prohibited
876.1F	East Duck Park	Jct 876	End	P	Use Prohibited
876.1G	West Duck Park	Jct 876	End	P	Use Prohibited

C5.31# – ROAD MAINTENANCE REQUIREMENTS. (7/01)

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		T-800	T-802	T-803	T804	T-805	T-807	T-808	T-810		
801.1G	Jct 801	End	0.1			P	P	P	P	P	P	P	
875	Jct 876	End	0.9			P	P	P	P	P	P	P	
875.1A	Jct 875	End	0.5			P	P	P	P	P	P	P	
876.1A	Jct 876	End	0.9			P	P	P	P	P	P	P	
876.1H	Jct 876	End	0.6			P	P	P	P	P	P	P	

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

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		T-800	T-802	T-803	T-805	T-807	T-808				
801	Jct 876	End	1.2			P	P				P		
801.1G	Jct 801	End	0.1			P	P		P	P	P		
875	Jct 876	End	0.9			P	P		P	P	P		
875.1A	Jct 875	End	0.5			P	P		P	P	P		
876	Jct 876.1A	Jct 801	2.1			P	P		P	P	P		
876.1A	Jct 876	End	0.9			P	P		P	P	P		
876.1H	Jct 876	End	0.6			P	P		P	P	P		

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

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T-800	T-802	T-803	T-805	T-807	T-808				
801	Jct 876	End	1.2			P	P				P		
801.1G	Jct 801	End	0.1			P	P		P	P	P		
875	Jct 876	End	0.9			P	P		P	P	P		
875.1A	Jct 875	End	0.5			P	P		P	P	P		
876	Jct 876.1A	Jct 801	2.1			P	P		P	P	P		
876.1A	Jct 876	End	0.9			P	P		P	P	P		
876.1H	Jct 876	End	0.6			P	P		P	P	P		

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

**Road Maintenance T-Specifications
for
Timber Sale Contracts**

No.	Specification Title
T-800	Definitions
T-802	Ditch Cleaning
T-803	Surface Blading
T804	Surfacing Repair
T-805	Drainage Structures
T-807	Roadway Vegetation
T-808	Miscellaneous Structures
T810	Barriers

SPECIFICATION T-800 DEFINITIONS

Wherever the following terms or pronouns are used in Specifications T-801 through T-811, 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.

SPECIFICATION T-800 DEFINITIONS CONTINUED

800-1.9 - Drainage Structures. Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, downdrains, 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 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 C5.31#.

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 sideslopes, 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 backslope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated ravelling.

SPECIFICATION T-800 DEFINITIONS CONTINUED

800-1.20 - Slough. Material eroded from the backslope 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 - Waterbar. A dip in the Roadbed which intercepts surface runoff and diverts the water off the Roadway. A Waterbar is not designed to be traversable by logging trucks.

SPECIFICATION T-802 DITCH CLEANING

DESCRIPTION

1.1 Ditch cleaning is removing and disposing of all Slough Material from Roadway ditches to provide a free-draining waterway.

REQUIREMENTS

3.1 Ditch cleaning shall be repeated during the year as often as necessary to facilitate proper drainage.

3.2 All Slough Material or other debris which might obstruct water flow in the Roadway ditch shall be removed. Material removed from the ditch, if suitable, may be blended into existing native road surface or Shoulder or placed in designated Berms in conjunction with Surface Blading T-803 operations.

Material removed from ditches that is not by Agreement blended into existing roads or placed in Berms shall be loaded and hauled to the disposal site designated by the Forest Service.

3.3 Roadway backslope or Berm shall not be undercut.

SPECIFICATION T-803 SURFACE BLADING

DESCRIPTION

1.1 Surface blading is keeping a native or aggregate Roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the Crown, Inslope or Outslope of the Traveled Way, Turnouts, and Shoulder; repairing Berms; blending approach road intersections; and cleaning bridge decks, Drainage Dips, and Lead-off Ditches.

REQUIREMENTS

3.1 Surface blading shall be performed before, during, and after Purchaser's use as often as necessary to facilitate traffic and proper drainage.

3.2 The surface blading shall preserve the existing cross-section. Surface irregularities shall be eliminated and the surface left in a free-draining state and to a smoothness needed to facilitate traffic. Surface Material which has been displaced to the Shoulders or Turnouts shall be returned to the Traveled Way. The blading operation shall be conducted to prevent the loss of surface Material and to provide for a thorough mixing of the Material being worked.

3.3 Water, taken from Water Sources designated on Sale Area Map, shall be applied during blading if sufficient moisture is not present to cut, mix, or compact the surface Material.

3.4 On native surfaced roads, Material generated from backslope Sloughing, and ditch cleaning may be blended with the surface Material being worked. On aggregate surfaced roads this Material shall not be blended with Surface or Base Course Material unless agreed otherwise.

3.5 Roadway backslopes or Berms shall not be undercut, nor shall new Berms be established unless agreed otherwise.

Berms shall be repaired by placing Material, as needed to restore the Berm, to reasonably blend with existing line, grade, and cross-section.

3.6 Drainage Dips and Lead-off Ditches shall be cleaned and maintained to reasonably blend with existing line, grade, and cross-section.

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SPECIFICATION T-803 SURFACE BLADING CONTINUED

3.7 Intersecting roads shall be bladed for a distance of 50 feet to assure proper blending of the two riding surfaces.

3.8 Rocks or other Material remaining on the Traveled Way after the final pass that are larger than 4 inches in diameter or are larger than the maximum size of imported surfacing shall be removed from the Traveled Way. Unless otherwise designated by the Forest Service, the oversized Material shall be disposed of by sidecasting. Sidecasting into streams, lakes, or water courses will not be permitted.

3.9 Material resulting from work under this specification shall not remain on or in structures, such as Culverts, overside drains, cattleguards, ditches, Drainage Dips, and the like.

3.10 Material resulting from work under this specification, plus any accumulated debris, shall be removed from bridge decks and the deck drains opened.

SPECIFICATION T-804 SURFACING REPAIR

DESCRIPTION

1.1 Surfacing repair is repairing potholes or small soft areas in the Traveled Way. It includes area preparation and furnishing and placing all necessary Materials, and other work necessary to repair the surface.

MATERIALS

2.1 Material used in the repair of soft areas on aggregate or native surfaced roads may be acquired from approved commercial sources, designated Forest Service Borrow areas, or Borrow sources agreed to. The quality and quantity of the imported Material used in the repair will be limited to that needed to provide a stable Traveled Way for hauling and to minimize damage to the road and adjacent resources. The quantity of imported surface repair Material used in the appraisal estimate will be shown on Road Maintenance Plan. However, the magnitude of the work may vary depending on Purchaser's hauling schedule and ground conditions.

2.2 Material used in the repair of bituminous pavements may be acquired from local commercial sources. If a mixing table is required, the location shall be approved by the Forest Service. The bituminous mixture to be used by the Purchaser shall be approved by the Forest Service. The Purchaser's share of the quantity of bituminous mixture used in the appraisal estimate will be shown on Road Maintenance Plan. However, Purchaser's share of the work may vary depending on Purchaser's hauling schedule, ground conditions, other traffic, etc.

REQUIREMENTS

3.1 Work under this specification shall be performed in a timely manner to reduce further deterioration of the Traveled Way.

3.2 Soft spots on aggregate or native surfaces shall be repaired by placing the imported Surface Course on top of the soft spot. Layers of imported Material shall be placed until a firm surface is produced.

3.3 Bituminous Pavement Repairs. The areas to receive bituminous pavement repairs will be marked on the road surface by the Forest Service just prior to Purchaser performing the work.

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SPECIFICATION T-804 SURFACING REPAIR CONTINUED

3.4 Potholes (deep patch). Surface Course and Base Course Materials shall be excavated to a depth necessary to reach firm, suitable Material. The minimum depth of excavation shall be 2 inches and the maximum depth of excavation shall be to the top of the Subgrade.

The edges of the prepared hole shall be extended to form a vertical face in unfractured asphalt surfacing. The prepared hole shall generally be circular or rectangular in shape, dry, and cleaned of all loose Material.

Prepared potholes shall be patched or barricaded immediately.

The faces of the prepared hole shall be tacked with a slow-setting emulsified asphalt.

The bituminous mixture shall be placed in layers not exceeding a compacted depth of 2 inches. Each layer shall be compacted thoroughly with hand or mechanical tampers or rollers. Compaction shall not be done with equipment wheels.

Upon completion, the compacted patch in the pothole shall be flush, with a tolerance or approximately ¼ inch to ½ inch above the level of the adjacent pavement.

3.5 Skin Patches. Bituminous mixture shall be distributed uniformly with feathered edges in layers not to exceed 2 inches compacted depth. When multiple layers are ordered, joints shall be offset at least 6 inches between layers.

Each layer shall be compacted by two passes with a 7-10 ton steel roller or comparable vibratory roller.

3.6 Asphalt Berm. Damaged segments of Berm shall be removed and the exposed ends beveled at approximately 45 degrees from vertical. The Berm foundation shall be cleaned and patched as necessary. The foundation and joining surfaces shall be coated with a slow-setting emulsified asphalt. Asphalt mix shall be placed and compacted to conform with the shape and alignment of the undamaged segment.

3.7 Disposal. All Materials removed from potholes, patches, and Berms shall be disposed of at disposal sites designated by the Forest Service.

SPECIFICATION T-805 DRAINAGE STRUCTURES

DESCRIPTION

1.1 This work consists of maintaining Drainage Structures and related items such as inlet and outlet channels, existing riprap, trash racks, and dropinlets.

MATERIALS

2.1 All Materials used in the maintenance of Drainage Structures shall conform by type and specification to the Material in the structure being maintained.

REQUIREMENTS

3.1 Drainage Structures and related items shall be cleared of all foreign Material which has been deposited above the bottom of the structure and all vegetative growth which interferes with the flow pattern. Material removed that cannot be incorporated into maintenance work shall be hauled to a disposal site shown on Sale Area Map.

3.2 If outlet or inlet riprap was installed by Purchaser as a construction item or existed prior to Purchaser's haul, it shall be maintained in good condition including the replacement of riprap if necessary to previous line, grade, and cross-section.

3.3 Perform maintenance to insure the proper functioning of the head walls, aprons, inlet assemblies, overside drains, riprap, trash racks, and other facilities related to the Drainage Structure.

SPECIFICATION T-807 ROADWAY VEGETATION

DESCRIPTION

1.1 This work includes removal of brush and trees from within the Roadway limits.

REQUIREMENTS

3.1 Vegetative matter within the Roadway which impedes vehicular travel or interferes with road maintenance operations, such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the Roadside in locations where the Traveled Way or sight distances will not be impaired.

3.2 Vegetative matter removed from the Roadway shall be treated by the specified method and as required by C6.7#.

SPECIFICATION T-808 MISCELLANEOUS STRUCTURES

DESCRIPTION

1.1 Maintenance of miscellaneous structures includes cattleguards, gates, and other similar structures that have been previously installed to insure safe and efficient operation of the road.

MATERIALS

2.1 Any Materials needed in the maintenance of miscellaneous structures shall be similar in type and quality to the Material in the structure being maintained.

REQUIREMENTS

3.1 Cattleguards. Loose rails shall be welded or bolted back in place.

Excess Material carried into the cattleguard shall be removed when drainage is blocked or when it reaches 6 inches from the bottom of the cattleguard frame. Drainage into and from the cattleguard shall be kept open.

3.2 Gates. Gates shall be kept in good repair and made to swing easily. Hinges or latches shall be repaired if not operating properly.

Brush and debris shall be removed from within the swinging radius.

SPECIFICATION T-810 BARRIERS

DESCRIPTION

1.1 This work shall consist of furnishing, installing, or removing barriers. Gates are not included.

MATERIALS

2.1 Materials for barriers shall meet the requirements as shown on attached drawings.

REQUIREMENTS

3.1 Barriers shall be installed in accordance with the attached drawings.

The location of barriers to be removed or installed is shown on Sale Area Map. Installation or removal may occur as often as road use is terminated and resumed.

C5.34# - OBLITERATION OF TEMPORARY ROADS, SKID TRAILS AND LANDINGS. (3/02)

Cutting Unit(s)	Type of Facility	Closure Method
All	Temporary Roads	Temporary roads will be ripped entire length to a depth of 8-12 inches, such that approximately 65% of surface is decompacted.

C5.41# - CLOSURE TO USE BY OTHERS. (4/04)

Gate Location(s)				
Road Number	Location	Gate Furnished By	Gate Installed By	In Place
875	MP 0.1	Forest Service	Forest Service	Yes
876.1A	MP 0.05	Forest Service	Forest Service	Yes
876.1H	MP 0.05	Forest Service	Forest Service	Yes

Percent Grade	Maximum Spacing
N/A	N/A

3 Close and Lock Existing Gate(s)

Closure Location(s)				
Road Number	Location	Closure Method 2/	Furnished By 1/	In Place 3/
N/A	N/A	N/A	N/A	N/A

C6.312# - SALE OPERATION RESTRICTIONS. (4/04)

Sale Operation Restriction Schedule		
Subdivision(s) or Cutting Unit(s)	Restriction	Purpose
All	No wheeled or tracked equipment will be allowed except during dry or frozen conditions. Frozen conditions exist when there are 4 inches or more of frozen ground or 12 inches or more of packed snow or a combination of compactable snow and frozen soil of 12 inches or more.	Protect soil and hydrologic resources
All	Staging areas and refueling locations will be located at least 100 feet away from streams and wetlands as shown on the Sale Area Map.	Protect hydrologic resources
All	Heavy equipment will not be operated outside of unit boundaries unless approved in writing by the Forest Service.	Protect all resources
Unit 1, 10 and 13	No operations from April 1 st to August 30 th in areas designated on the Sale Area Map. Forest Service will identify areas on the ground prior to operations.	Protect wildlife resources

C6.411# - FELLING AND BUCKING (SPECIAL OBJECTIVES). (11/98)

Cutting Unit(s)	Special Objectives
All	Trees shall be felled, insofar as safety permits, to angle in the direction of skidding to protect residual trees and improvements, unless otherwise specified.

C6.601# - EROSION CONTROL SEEDING. (11/98)

Seed Application Table	
Species of Seed	Percent of Mix by Weight (25 lbs/acre)
Big bluegrass (<i>Poa ampla</i>) or Canby bluegrass (<i>Poa canbyi</i>)	4%
Mountain brome (<i>Bromus marginatus</i>)	40%
Blue wildrye (<i>Elymus glaucus</i>)	33%
Slender wheatgrass (<i>Elymus trachycaulus</i>)	23%

Fertilizer Application Table	
Type of Fertilizer	Pounds Per Acre
N/A	N/A

C6.602# - PROTECTION OF DISTURBED AREAS FROM ESTABLISHMENT OF NOXIOUS WEEDS.
(11/98)

Seed Application Table	
Species of Seed	Percent of Mix by Weight (25 lbs/acre)
Big bluegrass (<i>Poa ampla</i>) or Canby bluegrass (<i>Poa canbyi</i>)	4%
Mountain brome grass (<i>Bromus marginatus</i>)	40%
Blue wildrye (<i>Elymus glaucus</i>)	33%
Slender wheatgrass (<i>Elymus trachycaulus</i>)	23%

Fertilizer Application Table	
Type of Fertilizer	Pounds Per Acre
N/A	N/A

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C6.7# - SLASH TREATMENT. (4/03)

Purchaser's Slash Responsibility Table	
Cutting Unit(s)	Type of Slash Disposal
All (except within 100 feet from NFSRs 801, 876 and Fencelines)	18. Leave Tops
All (except within 100 feet from NFSRs 801, 876 and Fencelines)	23. Scatter
Within 100 feet from NFSRs 801, 876 and Fencelines (All Units)	15. Slash Throwback
Along NFSRs 801, 801.1G, 875, 875.1A, 876, 876.1A and 876.1H.	10. Clean System Roads

18. Leave Tops

All Included Timber shall have tops and limbs cut from the stems prior to skidding. These tops and limbs shall be left in the cutting units where the timber is felled.

23. Scatter

Logging slash shall be scattered away from and without unnecessary damage to residual trees. All scattered logs shall be limbed, placed away from trees and positioned so they will not roll. Other logging slash shall be scattered to reduce slash concentrations with slash being generally left within 24 inches of the ground and not in piles.

15. Slash Throwback

Purchaser shall move all logging slash created by Purchaser's Operations 2 inch large end diameter, and 4 feet or more in length to locations at least 100 feet away from NFSR 876, 801 and Fencelines.

Tops and limbs which are lost on the way to the landing site due to normal felling, skidding, and/or yarding operations are not required to be yarded.

10. Clean System Roads

Logging slash shall be removed from within the roadway limits and left within 24 inches of the ground and not in piles