

834 – Roadway Drainage System Maintenance
Umatilla National Forest
(08/10)

834.01

Services Required

Maintain roadway drainage systems to provide effective roadway drainage function.

834.02

Performance Standards

Culvert/Ditch/Drainage Structure Cleaning

Culvert/ditch/drainage structure cleaning is complete when:

- obstructions that have the potential to prevent the drainage systems specified for cleaning from functioning properly have been removed and disposed of, as shown on the task order or drawings,
- damages to the template or appurtenances have been repaired (see 834.06), and
- the traveled way has been cleared of residual debris and materials generated by drainage system cleaning, and roughness from the operation has been smoothed and compacted.

Requirement for Non-native Invasive Plant Species Control

Prior to entering National Forest lands, all road maintenance equipment shall be cleaned to minimize the potential spread of non-native invasive plant species. Prudent actions, such as washing or using compressed air, shall be taken to clean equipment, prior to moving from one project area to another within the National Forest, to ensure that these species are not spread.

834.03

Location of Work

Work will apply to those areas shown on the task order or drawings. Additional work may be ordered by the Contracting Officer.

834.04

Measurement

Measurement will be made of each item or unit of work, as shown in the Schedule of Items, completed and accepted in accordance with the contract provisions, specifications, and drawings.

- Each - Work activity will be measured by the actual number of units completed.
- Mile - Work activities by the mile will be measured along the centerline of the roadway, and rounded to the nearest hundredth of a (0.01) mile.

834.05

Payment

Accepted quantities will be paid at the contract price per unit of measurement for the Section 834 pay items listed in the Schedule of Items. Payment will be full compensation for the work prescribed in this section.

NOTE: Mobilization is incidental to pay items.

<u>Pay Item</u>	<u>Description</u>	<u>Pay Unit</u>
834(01)	Clean Culverts, 24" diameter and less	Each
834(02)	Clean Culverts, 24" – 48" diameter	Each
834(03)	Clean Culverts, greater than 48" diameter	Each
834(04)	Clean Ditches	Mile
834(05)	Clean Ditches and Drainage Structures	Mile
834(06)	Clean Drainage Structures	Mile

Acceptable Quality Levels for **Culvert/Ditch/Drainage Structure Cleaning**

Description	<u>Major Defect</u>	Allowable Major Defects	Action Required to Correct Major Defects	<u>Minor Defect</u>	Allowable Minor Defects	Action Required to Correct Minor Defects
Drainage Systems (Ditches and Structures Designed to Facilitate Roadway Drainage)	Obstructions remaining in drainage systems specified for cleaning	None, except those beyond 2 feet inside culvert inlets & outlets	Remove obstructions, except those beyond 2 feet inside culvert inlets and outlets	Obstructions remaining in drainage systems	Obstructions beyond 2 feet inside culvert inlets & outlets	Report to COR
	Major damage to culvert from contractor's operation	None	Repair damage to restore adequate function, or replace culvert in accordance with Forest Service specifications, at the contractor's expense	Minor marring or surface damages to culvert materials	No limit, if corrective actions are taken. → Otherwise, replace with new materials	Ensure marred areas are treated with an approved cold galvanizing compound
Template	Undercutting of the backslope	None	Replace missing backslope material with compacted rock material approved by the COR, at the contractor's expense			
Traveled Way	Debris from drainage system cleaning remaining in traveled way	None	Remove debris to provide a clear traveled way			
Traveled Way	Equipment causing potential damages to asphalt surface	None	Cease operation immediately and resume maintenance when surface is stable	Equipment causing potential damages to non-asphalt surfaces	Minor disturbances to aggregate or native surface materials	None, unless more than 2" deep or will compromise roadway drainage. Otherwise, smooth and compact area of disturbance.