

SECTION 253 S RESERVED

SECTION 254 STONE CHECK DAM

254.01 Description. This work consists of constructing, maintaining, and ultimately removing small stone check dams across a swale, channel, or any type of ditch as a temporary measure to reduce the velocity of concentrated flows, thereby reducing erosion of the swale, channel, or ditch. Stone check dams shall be constructed as shown on Standard Construction Detail, Stone Check Dam, at the locations shown on the Plans, and as directed by the Engineer.

MATERIALS.

254.02 Riprap. Riprap shall be R-4 conforming to the requirements of [Section 712](#) with the exception that geotextile will not be required to be placed under the riprap.

254.03 Seed. Seed shall conform to the requirements of [Section 734](#).

254.04 Mulch. Mulch shall conform to the requirements of [Section 735](#).

CONSTRUCTION METHODS.

254.05 Construction of Stone Check Dam. The stone check dam shall be constructed in reasonably straight sections of the swale or channel. The Contractor shall place the riprap so that it completely covers the width of the channel. The top of the stone check dam shall be constructed so that the center is lower than the outer edges, forming a spillway across which the water can flow as shown on Standard Construction Detail, Stone Check Dam.

254.06 Maintenance of Stone Check Dam. After each rainfall, the Contractor shall inspect the stone check dam for sediment accumulation or washout. The Contractor shall replace the riprap whenever washout, construction traffic damage, or silt accumulation among the riprap occurs and whenever the stone check dam ceases to function as intended.

254.07 Sediment Removal. Sediment shall be removed from behind the check dams when it has accumulated to one-half of the original height of the stone check dam at the spillway.

254.08 Removal of Stone Check Dam. Temporary stone check dams shall be removed only when directed by the Engineer. If stone check dams are used in grass-lined swales or channels which are mowed, the Contractor shall ensure that all riprap is removed when the stone check dam is removed. In temporary swales and channels, check dams should be removed and the ditch filled in when it is no longer needed. In permanent swales or channels, check dams may be removed when a permanent non-erodible lining can be installed. In the case of grass-lined ditches, check dams may be removed when the grass has matured sufficiently to protect the swale or channel. The area beneath the check dams should be seeded and mulched immediately after the check dams are removed.

254.09 Method of Measurement. The quantity of stone check dams will be measured as the actual number of tons (metric tons) of riprap placed and accepted.

The quantity of sediment removal will be measured according to [Section 250](#).

254.10 Basis of Payment. The quantity of stone check dams will be paid for at the Contract unit price per ton (metric ton). Price and payment will constitute full compensation for furnishing and placing all material; for

maintaining the stone check dam; for removing stone check dams; for restoring the site; for seeding and mulching; and for all labor, equipment, tools, and incidentals required to complete the work.

The quantity of sediment removal will be paid for according to [Section 250](#).

No payment will be made for any replacement of riprap during the Project construction period.

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