

SECTION 252 INLET SEDIMENT CONTROL

252.01 Description. This work consists of furnishing, constructing, maintaining, and ultimately removing sediment control around drainage inlets and curb inlets as a temporary measure to control sedimentation within the limits of construction. Inlet sediment control shall be constructed as shown on Standard Construction Details, Drainage Inlet Sediment Control and Curb Inlet Sediment Control, at the locations shown on the Plans, and as directed by the Engineer.

MATERIALS.

252.02 Lumber. Lumber shall be construction grade two-by-four measuring 12 x 32" (38 by 89 mm) and free from warps, checks, splits, and decay.

252.03 Wire Mesh. Wire mesh shall be steel or galvanized welded wire reinforcement with openings 2 x 2" (13 by 13 mm) and wire diameter of 19 gage (1.04 mm).

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

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

252.06 Stone. Stone shall be Delaware No. 3 conforming to the requirements of [Section 813](#).

252.07 Geotextile. Geotextile shall conform to the requirements of [Section 827](#).

252.08 Prefabricated Sediment Control. The Contractor shall have an option to use prefabricated sediment control devices provided each has been constructed with the materials specified in this Section and approved by the Engineer. Approval will be based on satisfactory performance at field test locations chosen by the Engineer.

CONSTRUCTION METHODS.

252.09 Construction of Drainage Inlet Sediment Control. The Contractor shall excavate completely around the walls of the inlet to the required depth. The corner posts shall be driven to the required depth below the excavated depth. The two-by-four frame shall be assembled and completed using overlapped joints. The lumber frame shall be set at a top elevation that ensures that water ponded by the inlet sediment control will not create a flooding or safety hazard.

Wire mesh shall be stretched tightly around the lumber frame and fastened securely. The geotextile shall be stretched tightly over the wire mesh and shall be fastened securely to the lumber frame at the required depth. The ends of the geotextile must meet at the posts, be overlapped and folded, and then fastened to the posts. After the geotextile is fastened to the posts, the Contractor shall backfill the previously excavated trench according to [Subsection 207.05](#).

If the inlet is not in a low point, the Contractor shall construct a sediment control earth dike in the ditch line, downstream from the inlet, as shown on Standard Construction Detail, Drainage Inlet Sediment Control. The earth dike shall conform to the requirements of [Section 260](#).

252.10 Construction of Curb Inlet Sediment Control. The Contractor shall assemble the two-by-four weir frame using overlapped joints. The weir frame shall be securely nailed to the vertical spacers as shown on Standard Construction Detail, Curb Inlet Sediment Control.

The Contractor shall place the assembly over the grate and against the inlet throat making sure that the end vertical spacers are at least 12" (300 mm) beyond each end of the throat opening and the grate. The two-by-four anchors shall be nailed to the top of the frame at the spacer locations. The anchors shall extend across the curb and be held in place by sandbags or alternate weights.

The Contractor shall lay a continuous piece of wire mesh over the grate, against the weir frame, and extending at least 12" (300 mm) from both ends of the weir frame. The wire mesh shall be formed to the concrete gutter and against the face of the curb at both ends of the inlet.

The Contractor shall place a piece of geotextile, of the same dimension as the wire mesh, over the wire mesh and securely attach it to the weir frame. The geotextile shall be formed to the wire mesh at both sides of the inlet. Clean stone shall be placed over the geotextile and the wire mesh to prevent water from entering the inlet from under or around the geotextile.

252.11 Maintenance of Inlet Sediment Control. Throughout the Project construction period, the inlet sediment controls shall be maintained and remain functional. Maintenance shall include cleaning the geotextile of trapped sediment by tapping the geotextile when it is dry. After every rainfall, the Contractor shall inspect the inlet sediment control. The geotextile and, if applicable, the stones shall be replaced when 50% of the voids are clogged. Any geotextile that does not function due to clogging or deterioration shall be replaced.

252.12 Sediment Removal. The Contractor shall remove all accumulated sediment from around the drainage inlet sediment control when the sediment has reached 6" (150 mm) from the top of the geotextile. When the sediment has reached 50% of the height of the curb, the Contractor shall remove all accumulated sediment from around the curb inlet sediment control.

252.13 Removal of Inlet Sediment Control. The inlet sediment control shall be removed when the Engineer determines that it is no longer required. The inlet sediment control and all materials incidental to inlet sediment control construction shall be removed and all areas affected by the inlet sediment control shall be restored. Unpaved areas shall be restored to the original or plan contours and, if applicable, stabilized with seed and mulch.

252.14 Method of Measurement. The quantity of drainage inlet sediment controls will be measured as the actual number of drainage inlets for which sediment control is placed and accepted. The quantity of curb inlet sediment controls will be measured as the actual number of curb inlets for which sediment control is placed and accepted.

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

252.15 Basis of Payment. The quantity of drainage inlet sediment controls will be paid for at the Contract unit price for each. The quantity of curb inlet sediment controls will be paid for at the Contract unit price for each. Price and payment will constitute full compensation for furnishing and installing all required materials, including lumber, wire mesh, geotextile, and stone; for excavating and backfilling; for maintaining the inlet sediment controls, including replacing the geotextile and stone; for removing the sediment controls and all incidental materials; for restoring the site; for seeding and mulching; and for all labor, tools, equipment, and incidentals required to complete the work.

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

[top](#)