

SECTION 653

EDGE DRAIN CONDUIT

653.01 . DESCRIPTION.

This work shall consist of the construction of a perforated underdrain conduit at the edge of the pavement and installing edge drain outlet laterals. The pavement edge drain conduit shall be installed in accordance with these Specifications and in reasonable close conformity with the locations and dimensions as shown on the Plans or approved by the Engineer.

653.02. MATERIALS.

Materials shall meet the requirements specified in the following Sections:

Edge Drain Conduit - Perforated	726
Edge Drain Lateral - Nonperforated	726
Outlet Lateral Headwall	509

653.04. CONSTRUCTION METHODS.

- (a) **General.** Place the edge drain conduit in an excavated trench lined with separator fabric as shown on the Plans. Backfill of the trench shall be either open graded base or pipe underdrain cover material, as shown on the Plans. All surfacing above the backfill shall be so shown on the Plans. All necessary splices shall be neat and professional and made in accordance with the manufacturer's directions. Elbow outlet fittings of hi-impact polyethylene or equivalent material shall be used to make the transition between the edge drain conduit and the edge drain outlet laterals as shown on the Plans.

Place the outlet laterals and headwalls on a smooth and proper grade according to the Engineer or as shown on the Plans. Backfill trenches for outlet laterals with native material and compact them as directed by the Engineer.

Install outlet lateral and properly connect it to the edge drain within 48 hours after the edge drain is placed.

If edge drain conduit is damaged, replace or repair that portion by splicing it with an undamaged section of conduit at no additional charge to the Department.

At the time of acceptance, adequately cover all lateral outlets and clear the head walls of earth materials, vegetation, and other debris.

- (b) **Excavation.** The amount of trench excavated from the existing paved area at any time shall not exceed the amount of edge drain that can be set and backfill completed in one working day.

Do not damage the existing pavement during the excavation and placement operations. Any damage done to the pavement shall be repaired, at no additional charge, in a manner approved by the Engineer.

Disposal of excess trench excavation shall be the responsibility of the Contractor.

- (c) **Separator Fabric.** Construct separator fabric in accordance with Section 325 and the details shown on the Plans.

- (d) **Outlet Headwalls.** Construct outlet headwalls and place at each outlet lateral as shown on the Plans or approved by the Engineer.
- (e) **Rodent Screen.** Install rodent screens in each outlet lateral line and securely fasten them to the outlet end of the edge drain lateral pipe.

653.05. METHOD OF MEASUREMENT.

Completed and accepted pavement *edge drain conduit* will be measured by the linear foot (meter) along the centerline of the edge drain actually placed. *Edge drain outlet laterals* for the edge drain conduit will be measured by the linear foot (meter) actually installed. *Outlet lateral headwalls* will be measured for each headwall actually constructed.

Separator fabric will be measured in accordance with Section 325.

653.06. BASIS OF PAYMENT.

Accepted quantities of pavement edge drain conduit, measured as provided above, shall be paid for at the contract unit price as follows:

- (A) EDGE DRAIN CONDUIT-PERFORATED LINEAR FOOT (METER)
- (B) EDGE DRAIN OUTLET LATERAL-NONPERFORATED . LINEAR FOOT (METER)
- (C) OUTLET LATERAL HEADWALL EACH

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.