

SECTION 922 — PREFABRICATED EDGE DRAINS

922.01 CERTIFICATION. The manufacturer shall furnish certification as specified in TC-1.02.

922.02 PREFABRICATED EDGE DRAINS. Prefabricated edge drains shall be flexible, rectangular conduit consisting of supporting drainage core encased in a geotextile.

Drainage Core. Drainage core material shall be manufactured from polymers having a high resistance to deterioration by pavement deicing salts, petroleum based materials, and naturally occurring soil chemicals. The core shall have sufficient flexibility to withstand bending and handling without damage or significant weakening.

The core geotextile contact point spacing for post and cusped sheet type cores shall not exceed 1.125 in. Elongated pipe core sections shall have a 7.5 in./ft minimum open area to allow lateral flow into the core. Cores with support on only one side shall have a minimum of 5 percent of the area of that support side in unobstructed flow. The drain core shall conform to the following requirements:

TEST PROPERTY	TEST METHOD	SPECIFICATION LIMITS
Thickness, in. min	—	0.75
Compressive Strength, psi, @ 20% maximum deformation, min	(a)	40
In-plane Flow Rate, gal/min/ft of width, min	D 4716 (b)	15

- (a) D 5034 for crushed sheet and post type cores.
D 2412 for elongated pipe type cores.
- (b) 10 psi load after 100 hr at a hydraulic gradient of 0.1.

Geotextile Wrap. The geotextile wrap for prefabricated edge drain shall conform to 921.09, Class SD, Type II.

The fabric shall be bonded to contact points of supporting core for post and cusped sheet type cores to ensure that the geotextile does not sag into the core flow area. The geotextile shall be tightly stretched over the core for elongated pipe type cores.

922.03 FITTINGS. Fittings for the pavement edge drain systems, including, but not limited to end seals, splices, outlets, and shunts shall conform to the manufacturer's recommendations and shall be of sufficient strength to withstand construction handling and permanent loading. All fittings shall be as approved by the Engineer.

922.04 OUTLET PIPE. Pipe for outlets shall be 6 in. minimum diameter and shall conform to Section 905.

SECTION 923 — SLURRY SEAL

923.01 AGGREGATES. Aggregates shall be crushed stone, compatible with the emulsion and shall conform to Section 901.

923.02 MINERAL FILLER. Refer to Section 901.

923.03 EMULSIFIED ASPHALT. Emulsified asphalt shall conform to M 208, Grade CSS-1h, except that the cement mixing test is waived.

Emulsified asphalt shall not separate before placement of SS or LMSS.

923.04 LATEX MODIFIED EMULSION. The latex modifier and other emulsifiers shall be milled into the asphalt cement. The emulsified asphalt shall be modified by the addition of 3.0 ± 0.4 percent latex solids by weight of the asphalt. The latex modifier shall be an unvulcanized styrene butadiene rubber (SBR) or 100 percent natural latex in liquid form. The manufacturer shall furnish certification as specified in TC-1.02 showing actual test results in conformance with these Specifications.

923.05 MIX DESIGN APPROVAL. Mix design data shall be submitted to the Engineer for approval at least three weeks in advance of the paving operation. The mix design shall list the ingredients and their proportions as well as the gradation of the proposed aggregate.