

446 EDGEDRAIN (DRAINCRETE).
(REV 5-5-08) (FA 10-8-08) (7-09)

ARTICLE 446-2 (Page 438) is deleted and the following substituted:

446-2 Materials.

Meet the following requirements:

Portland Cement Concrete	Section 347*
Coarse Aggregate.....	Section 901
Portland Cement.....	Section 921
Water.....	Section 923
Polyvinyl-Chloride Pipe.....	Section 948
Polyethylene Pipe.....	Section 948
Filter Fabric.....	Section 985

*For Draincrete, the concrete requirements of Section 347 are modified as

follows:

Use Type I or II portland cement (no fly ash or other pozzolans permitted).

Composition:

Grade of coarse aggregate (stone)....	#57, #67 or #89
Maximum Water/Cement ratio	0.38
Minimum cement factor.....	385 lb/yd ³ of Draincrete
Maximum Slump Range	Not Applicable
Fine Aggregate.....	None
Admixtures.....	None

Do not use materials which contain hardened lumps, crusts, or frozen matter, or are contaminated with dissimilar material.

SUBARTICLE 446-3.1 (Page 438 and 439) is deleted and the following substituted:

446-3 Control of Quality.

446-3.1 Concrete Design Mix: Submit the proposed design mix prior to production, on the “Concrete Mix Design” form, for the Engineer’s approval. Use only draincrete design mixes having prior approval of the Engineer. Do not change the design mix component materials except as per 446-3.2.

The Department will verify the proposed mix design and may witness the trial batching. Meet the unit weight requirements as determined in accordance with FM 5-530, and the drain rate in accordance with FM 5-570. Also, provide one of the following with the design mix submittal:

(1) Evidence from three sets of production data, either from Department acceptance tests or independently verifiable commercial mixes, that draincrete produced in accordance with the proposed design mix meets the requirements of this Section.

(2) Test data from a single trial batch of 0.10 yd³ minimum is required, which demonstrates that the draincrete produced using the proposed mix, designated ingredients, and designated water-cement ratio meets the requirements of this Section.

SUBARTICLE 446-5.1 (Page 439) is deleted and the following substituted:

446-5.1 General: The Engineer will take random samples of the draincrete at the point of placement to determine the drain rate in accordance with FM 5-570 to determine the drain rate. A minimum of two test cylinders will be made for each LOT. A LOT represents one day's production of each mix design.