

443 FRENCH DRAINS.
(REV 9-20-02) (FA 9-27-02) (7-03)

SUBARTICLE 443-2.1 (1) (Pages 457 and 458) is deleted and the following substituted:

(1) Concrete Pipe (Bell & Spigot): Slotted or perforated concrete pipe may be used. Meet the requirements of 449 for concrete pipe. Use the class of pipe specified on the Design Standards, Index No. 205. Do not use gaskets. Fully insert the spigot in the bell, and bring home. Conform to Design Standards, Index No. 285 for slotted pipe. Use perforated pipe having perforations equally located 360 degrees around the pipe. Use pipe having not less than 30 round perforations, 3/8 inch each, per square foot [320 round perforations, 10 mm each, per square meter] of inside pipe surface. Extend perforations to within 6 inches [150 mm] of the bell or spigot area. The Engineer will permit other perforations not less than 5/16 inch [8 mm] nor more than 3/8 inch [10 mm] in the least dimension if they provide an opening area not less than 3.31 in²/ft² [23,000 mm²/m²] of pipe surface.

ARTICLE 443-5 (Page 459) is deleted and the following substituted:

443-5 Placing Coarse Aggregate and Backfilling.

After the pipe placement has been approved, carefully place the coarse aggregate or ballast rock, without disturbing the pipe, around and over the pipe to a depth shown on the plans. Then fold the filter fabric over the coarse aggregate or ballast rock as shown on the plans, and fill the portion of the trench above the coarse aggregate with select fill material placed in layers not to exceed 6 inch [150 mm] compacted thickness. After placing the pipe, carefully place the coarse aggregate, without disturbing the pipe, around the pipe to a depth shown in the plans. Fold the filter fabric over the coarse aggregate. Backfill and compact as described below.

443-5.1 French Drains Under Pavement: Fill the area above the coarse aggregate with select fill material meeting the requirements of this Section. Place and compact the select fill according to the requirements for pipe as specified in Section 125. The Department will allow use of additional coarse aggregate over the top of the pipe instead of select fill material. In this case, the top of the coarse aggregate shall not be higher than the bottom of the base, unless shown in the plans. The Department will not pay additional costs associated with substituting coarse aggregate for select fill.

443-5.2 French Drains not Under Pavement: Fill and compact the area above the coarse aggregate according to the requirements for pipe in Section 125, unless specific procedures are described in the plans as specified in Section 125.