

# EXPECTED IMPLEMENTATION JANUARY 2015

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## 410 PRECAST CONCRETE BOX CULVERT.

(REV 5-30-14) (FA 8-4-14) (1-15)

SUBARTICLE 410-1 is deleted and the following substituted:

### 410-1 Description.

Provide precast four-sided concrete box culverts as an alternative to the structure shown in the Contract Documents. Only monolithic segments, or two-piece segments with three-sided bottom sections and a simple support top slab section, are permitted. Two-piece segments are limited to installations with a minimum of two feet fill height above the top slab.

Construct headwalls, wingwalls and other special features using cast-in-place concrete. Precast wingwalls, cut-off walls or headwalls are not permitted unless otherwise noted in the Contract Documents.

Meet the requirements in 449-1.

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SUBARTICLE 410-2 is deleted and the following substituted:

### 410-2 Materials.

Ensure that the materials used for the construction of precast box culverts have certification statements from each source, showing that they meet the applicable requirements of the following:

Portland Cement Concrete .....	Section 346
Reinforcing Steel .....	Section 415
Precast Concrete Drainage Products .....	Section 449
Wire for Site Cage Machines .....	Section 931
Coarse Aggregate* .....	Section 901
Fine Aggregate* .....	Section 902
Curing Materials for Concrete .....	Section 925
Materials For Concrete Repair .....	Section 930
Non-Shrink Grout .....	Section 934
Liner Repair Systems .....	Section 948
Joint Materials.....	ASTM C443, ASTM C877
.....	or ASTM C990
Geotextile Fabrics .....	Section 985

\* The gradation requirements of aggregates are not applicable when using dry-cast concrete.

\*\* Use products listed on the Department's Approved Product List (APL).

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