

707-B-183 ADJACENT PRESTRESSED-CONCRETE BOX BEAMS

(Adopted 06-18-09)

The Standard Specifications are revised as follows:

SECTION 707, LINE 10, INSERT AS FOLLOWS:

707.02 Materials

Materials shall be in accordance with the following:

Admixture for Concrete	912.03
Backer Rod.....	906.02(b)
Coarse Aggregates, Class A or Higher, Size No. 91.....	904
Concrete Curing Materials	912
Concrete Sealers.....	909.09, 909.10
Elastomeric Bearings	915.04
Fine Aggregates, Size No. 23.....	904
Fly Ash.....	901.02
PCC Sealer/Healer.....	901.06
Portland Cement.....	901.01(b)
Prestressing Strand.....	910.01(b)7
Reinforcing Bars	910.01

Structural steel for steel intermediate diaphragms shall be in accordance with 910.02(a) and shall be galvanized in accordance with ASTM A 123 after cutting, bending, and welding. Bolts for steel intermediate diaphragms shall be 7/8 in. (22 mm) and in accordance with 910.02(f), except they shall be type 1. All bolts, nuts, washers, and similar threaded fasteners shall be galvanized in accordance with ASTM A 123 or may be mechanically zinc coated in accordance with ASTM B 695, class 50.

Tensioning rods and steel plates used with adjacent prestressed-concrete box beams shall be in accordance with ASTM A 706, Grade 36 (A 706M, Grade 250). Nuts used with such tensioning rods shall be heavy hex in accordance with ASTM A 563 (A 563M). Grout used with such beams shall be non-shrink in accordance with ASTM C 1107.

SECTION 707, AFTER LINE 364, INSERT AS FOLLOWS:

After adjacent prestressed-concrete box beams are in place, the transverse tensioning rods shall be preliminarily tightened as shown on the plans. The rods shall be final tensioned as shown on the plans. The final tensioning shall yield 20,000 psi (138 MPa) as developed by means of a torque of 19 lb-ft (271 N-m). The tensioning-rod recesses and longitudinal joints between beams shall be filled with grout.
