

SECTION A-A (2" Cover - Thin Wall Detail)

reinforcing utilizes WWR, extend wall and slab

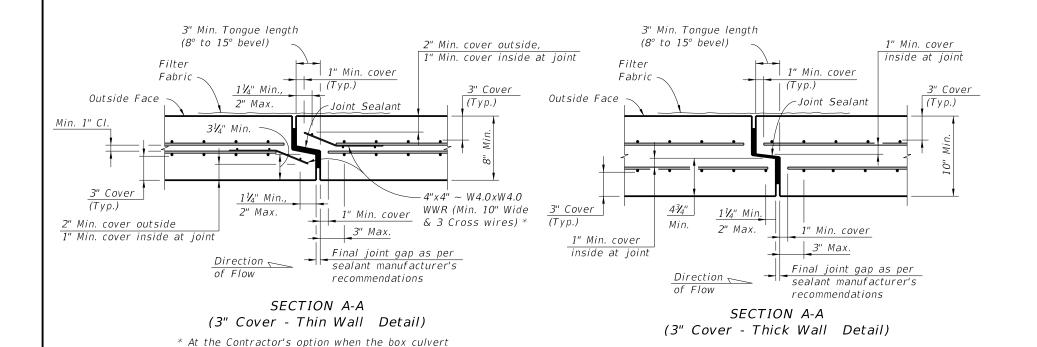
reinforcing into the joint and bend to maintain

of box to allow bending of the WWR.

cover in lieu of 4"x4" ~ W4.0xW4.0 WWR at joint.

Transverse wire in tongue may be cut at corners

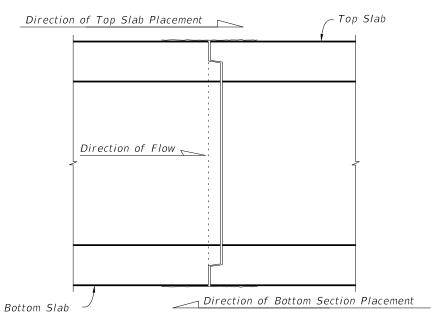
SECTION A-A (2" Cover - Thick Wall Detail)



See Section A-A 3" Min. Tongue length for reinforcing (8° to 15° bevel) cover requirements 3" Min. 3" Min. -Joint Sealant Provide WWR or extend reinforcing into tongue (See Section A-A)

> ALTERNATE BOTTOM SLAB TRANSVERSE JOINT TYPICAL SECTION (DOUBLE-SIDED TONGUE & GROOVE JOINT) (All reinforcing not shown for clarity)

Bottom Slab Joints in Type B Boxes may be single tongue & groove joints as shown in Section A-A when the Top Slab Joints are oriented as shown in Schematic "A".



SCHEMATIC "A" TYPE B BOX SECTION PLACEMENT FOR SINGLE TONGUE & GROOVE JOINTS

= TWO-PIECE PRECAST SEGMENT = ADDITIONAL JOINT DETAILS

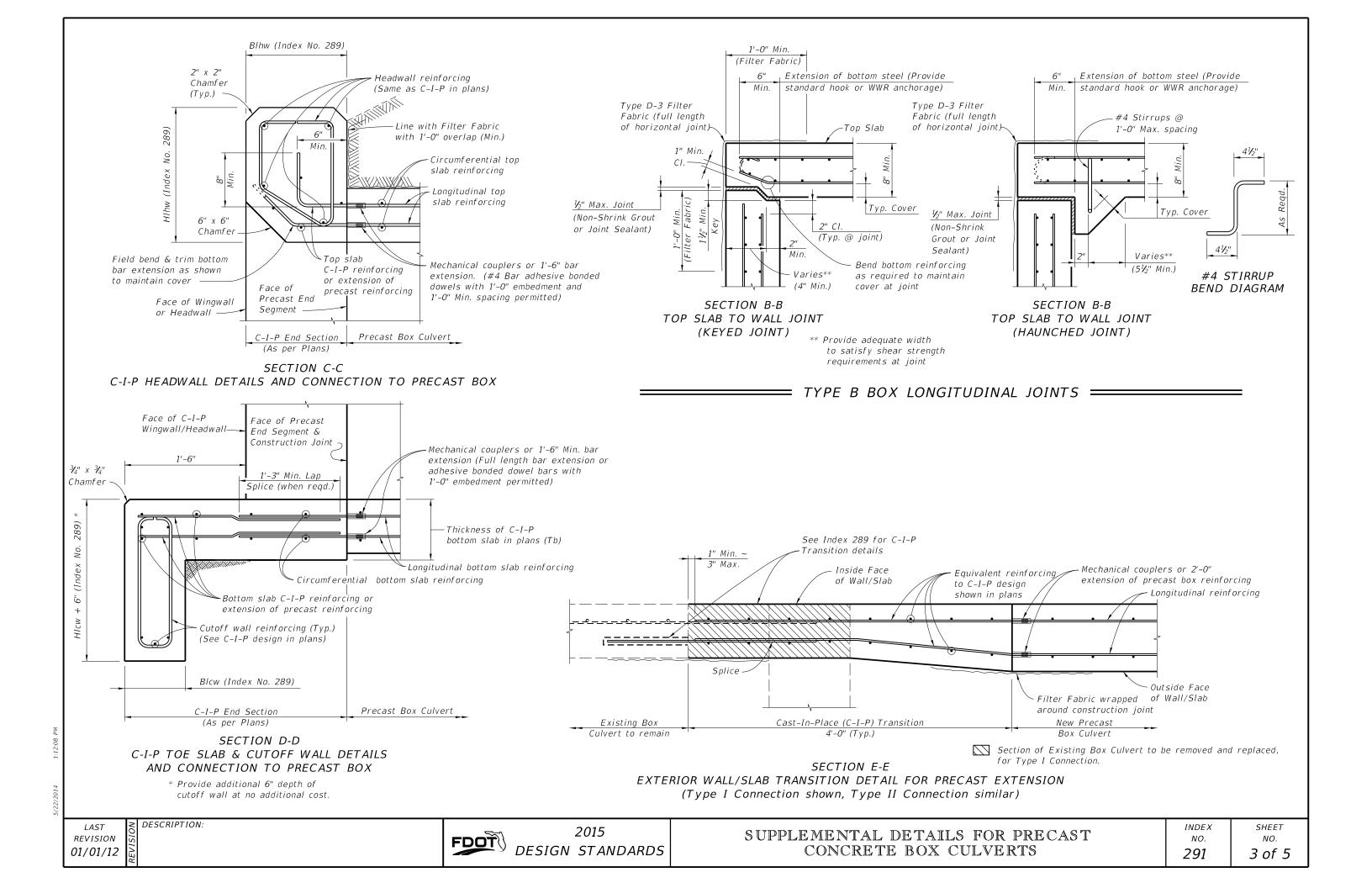
PRECAST SEGMENT TO SEGMENT TONGUE & GROOVE TRANSVERSE JOINTS =

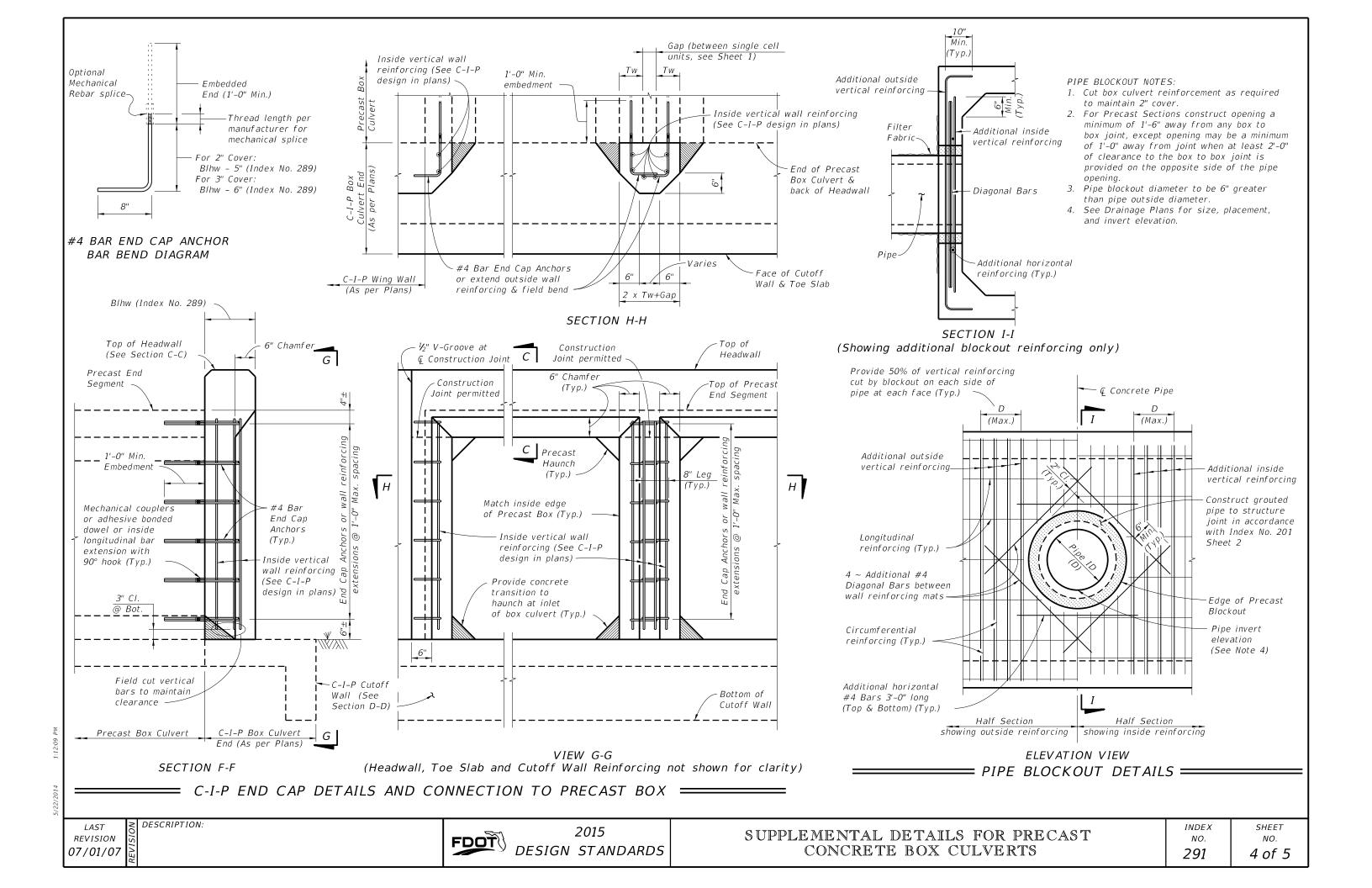
∠ DESCRIPTION: LAST REVISION 07/01/06

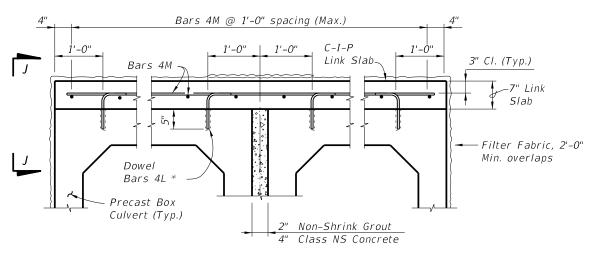
2015 FDOT DESIGN STANDARDS (TYPE B BOX)

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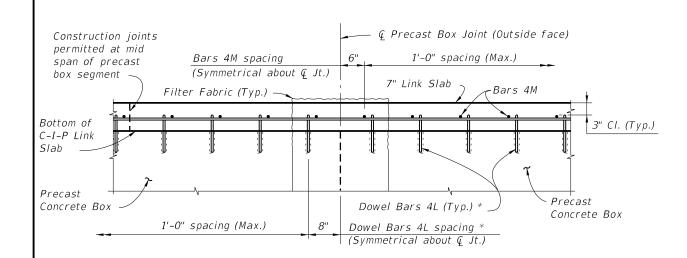






LINK SLAB TYPICAL SECTION (Multiple Barrel Culvert shown, Single Barrel Culvert similar)

* Install dowels with an Adhesive Bonding Material System in accordance with Specification Section 416. The Contractor may substitute mechanical couplers in lieu of adhesive bonded dowels. Shift dowels to clear box culvert reinforcing.



VIEW J-J

LINK SLAB NOTES:

1. Provide a Cast-In-Place Link Slab to ensure uniform joint opening of precast box culverts when the differential settlement shown in the plans exceeds the following limits, except that a Link Slab is not required for differential settlements less than 1/2".

$$\Delta Y \leq \frac{(L)^2}{760 \times R \times W}$$

Where:

 $\Delta Y = Maximum Long-Term Differential Settlement (ft.)$

R = Exterior height of Box Culvert (ft.)

W = Length of Box Culvert Segments (ft.)

L = Effective length for single curvature deflection (ft.)

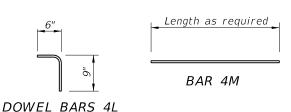
2. Extend Link Slab to back face of headwalls and to limits of existing box culverts for extensions.

ESTIMATED LINK SLAB QUANTITIES				
ITEM	UNIT	QUANTITY		
Class II or IV Concrete (Culvert)	CY/SF	0.0216		
Reinforcing Steel (Roadway)	Lb./SF	1.52		

NOTE: Estimated quantities are based the plan area of precast box slabs, and are provided for information only. No additional payment will be made for Link Slabs where these are required for the precast box culverts.

BILL OF REINFORCING STEEL				
MARK	SIZE	NO. REQ'D	LENGTH	
L	4	2 per Barrel/Ft.	1'-3"	
М	4	As Reqd.	As Reqd.	

REINFORCING STEEL BENDING DIAGRAMS

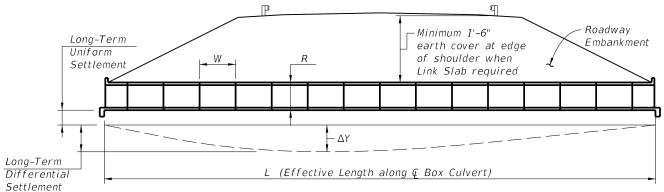


NOTES:

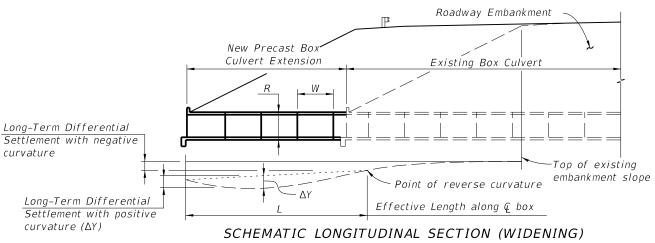
- 1. All bar dimensions are out to out.
- 2. Lap splice length for Bars 4M is 1'-4" minimum.

DESIGN NOTE:

1. Link Slab required when joint openings from differential settlement exceed 1/8" as determined in Link Slab Note 1.



SCHEMATIC LONGITUDINAL SECTION (NEW CONSTRUCTION)



= DIFFERENTIAL SETTLEMENT COUNTERMEASURES FOR PRECAST BOX CULVERTS =

∠ DESCRIPTION: LAST REVISION 01/01/09

