

FY 2016-17

DESCRIPTION: REVISION FDOT DESIGN STANDARDS 07/01/15

CROSS REFERENCE: For Detail "A", see Sheet 2.

WALL COPING WITH TRAFFIC RAILING/JUNCTION SLAB

(Precast Coping Shown, C-I-P Coping Similar)

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\* C-I-P End Section must

F-SHAPE TRAFFIC RAILINGS

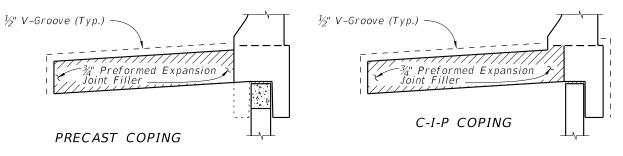
 $be \ge 12'-0''$ .

PARTIAL END VIEW OF TRAFFIC RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (Showing Bars 5V and Bars 5S) (Precast Coping Shown, C-I-P Coping Similar)

NOTE: See Index No. 420 and Index No. 425, Detail "A" for details.

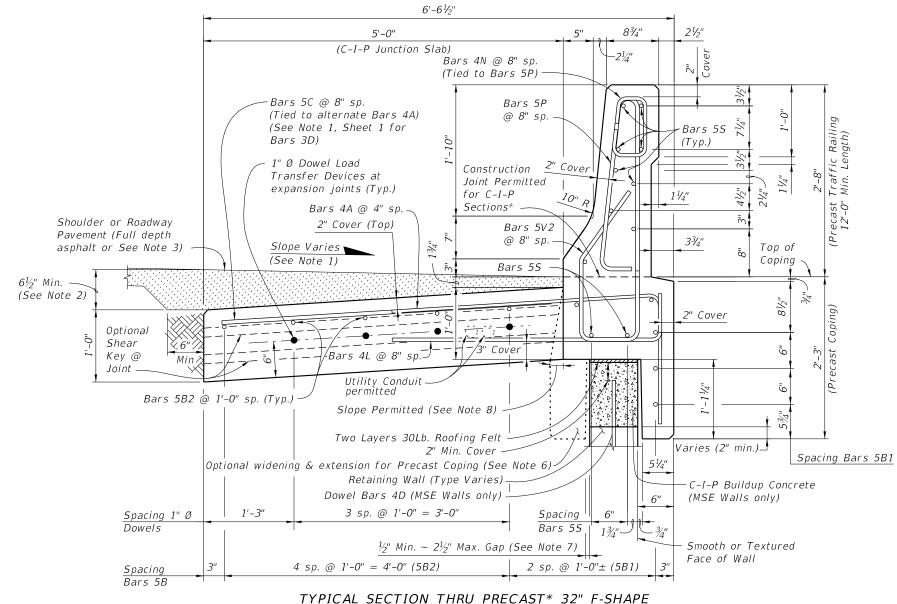
ESTIMATED QUANTITIES FOR PRECAST COPING			
ITEM	UNIT	QUANTITY	
Concrete (Precast Coping Only)	CY/LF	0.083	
Concrete (Precast Barrier & Coping)	CY/LF	0.169	
Concrete (C-I-P Junction Slab)	CY/LF	0.185	
Reinforcing Steel (Precast Coping & Traffic Railing)	LB/LF	52.67	
Reinforcing Steel (C-I-P Junction Slab) (Typ.)	LB/LF	12.52	
Additional Reinf. @ Expansion Joints (Steel Dowels)	LB	21.36	

(The above concrete quantities are based on a max. superelevation of 6.25% and a 32" F-Shape Traffic Railing.



DETAIL "A"

(Showing Locations of 1/2" V-Grooves and 3/4" Preformed Expansion Joint Filler)



## TRAFFIC RAILING AND COPING WITH C-I-P JUNCTION SLAB

\* C-I-P Traffic Railing and Coping Sections using precast dimensions and reinforcement are permitted at End Sections, Drainage Inlets and Light Pole Pedestals if slip forming is not used.

## NOTES:

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Vary Junction Slab slope based on roadway cross slope to maintain a minimum 6" asphalt depth at the edge of the slab as shown.
- 3. For Rigid Pavement (Concrete), Junction Slab may be thickened to match finished grade.
- 4. Minimum length of Junction Slab between expansion joints is 30'-0".
- 5. At the Contractor's option, mechanical couplers may be used to splice reinforcing. Complete details, including reinforcement lengths are required in the Shop Drawings. Provide mechanical couplers in accordance with Specification Section 415. Mechanical couplers shall develop 125% of the bar yield strength.
- 6. Contractor to maintain stability of precast coping/traffic railing prior to junction slab completion. In the Shop Drawings, show reinforcement for optional extension required for stability, shipping and handling. Maintain 2" minimum concrete cover.
- 7. When the air gap between the precast coping extension and retaining wall exceeds  $2\frac{1}{2}$ ", fill gap with full depth Expanded Polystyrene to provide a maximum  $2\frac{1}{2}$  air gap.
- 8. Angle varies ~ 0° min., 20° max.

F-SHAPE TRAFFIC RAILINGS

REVISION 07/01/15

DESCRIPTION:

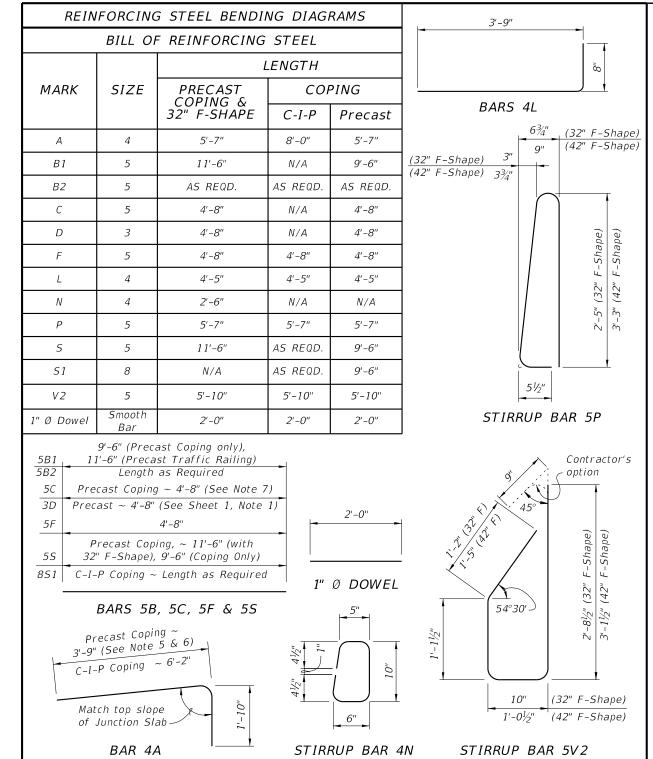
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WALL COPING WITH TRAFFIC RAILING/JUNCTION

INDEX NO. 6110

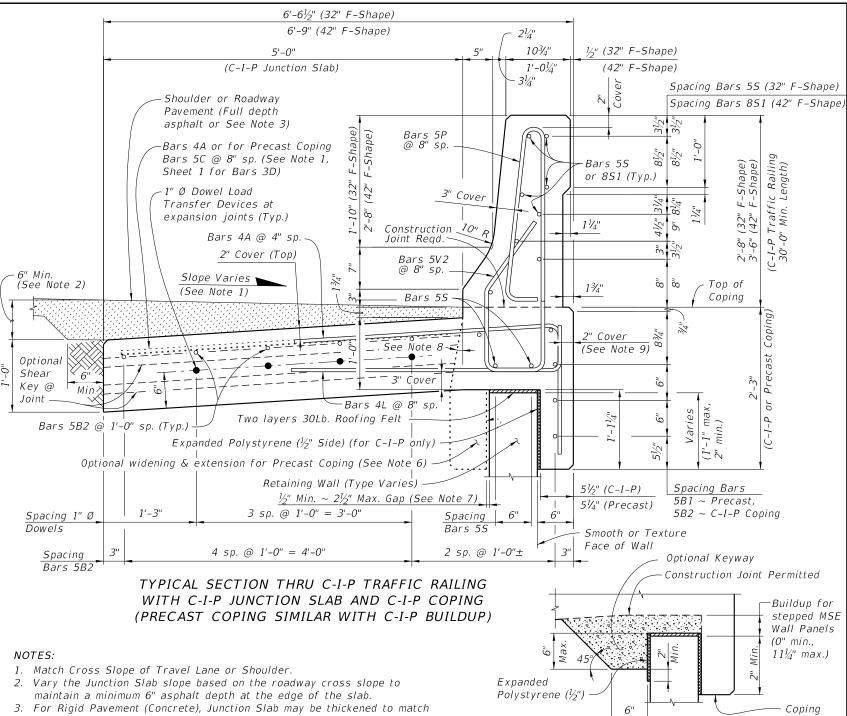
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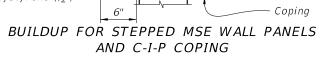
## REINFORCING STEEL NOTES:

DESCRIPTION:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at expansion and open joints will have a 2" minimum cover.
- 3. Lap splices for Bars 5B & 5S will be a minimum of 2'-0".
- 4. For Precast Copings only, lap splice Bars 4A with Bars 5C. Lap splices will be a minimum of 2'-0".
- The Contractor may use either full length Bars 4A or lap splice with Bars 5C at alternate Bars 4A for C-I-P Copings.
- 6. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 1'-4\frac{1}{2}" (32" F-Shape) or 1'-7" (42" F-Shape).
- 7. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 4'-8".
- 8. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.
- 9. Contractor may use a single #5 stirrup in lieu of two bars for 5P and 5V2.



- finish grade.
- 4. Minimum length of Junction Slab between expansion joints is 30'-0" for 32" F-Shape or 60'-0" for 42" F-Shape.
- 5. See Index No. 420 & 425 for additional Traffic Railing Details.
- 6. Contractor to maintain stability of precast coping prior to junction slab completion. In the Shop Drawings, show reinforcement for optional extension required for stability, shipping and handling. Maintain 2" minimum concrete cover.
- 7. When the air gap between the precast coping extension and retaining wall exceeds  $2\frac{1}{2}$ , fill gap with full depth Expanded Polystyrene to provide a maximum 2½" air gap.
- 8. Angle varies ~ 0° min., 20° max.
- 9. If slip forming is used, submit shop drawings for approval showing 3" side cover with the Typical Section dimensions adjusted.



ESTIMATED QUANTITIES FOR C-I-P COPING			
ITEM	UNIT	QUANTITY	
Concrete (Traffic Railing not Included)	CY/LF	0.268	
Reinforcing Steel (Typical) excluding Bars 5V2 and 5S (Typ.)	LB/LF	30.89	
Additional Reinf. @ Expansion Joint (Steel Dowels)	LB/LF	21.36	

(The above concrete quantities are based on a max. superelevation of 6.25%, beneath a 32" F-Shape Traffic Railing on an MSE Wall).

F-SHAPE TRAFFIC RAILINGS

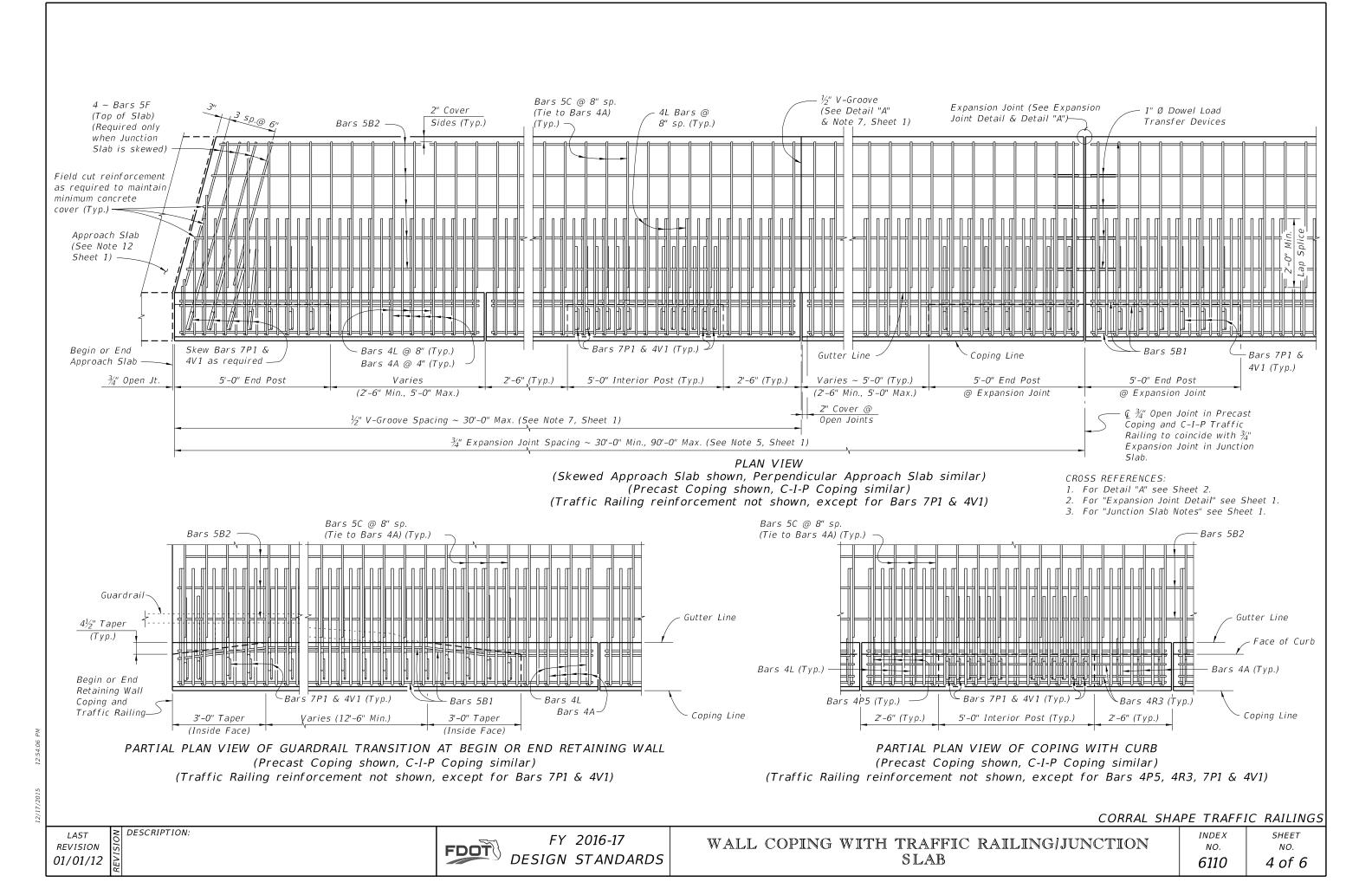
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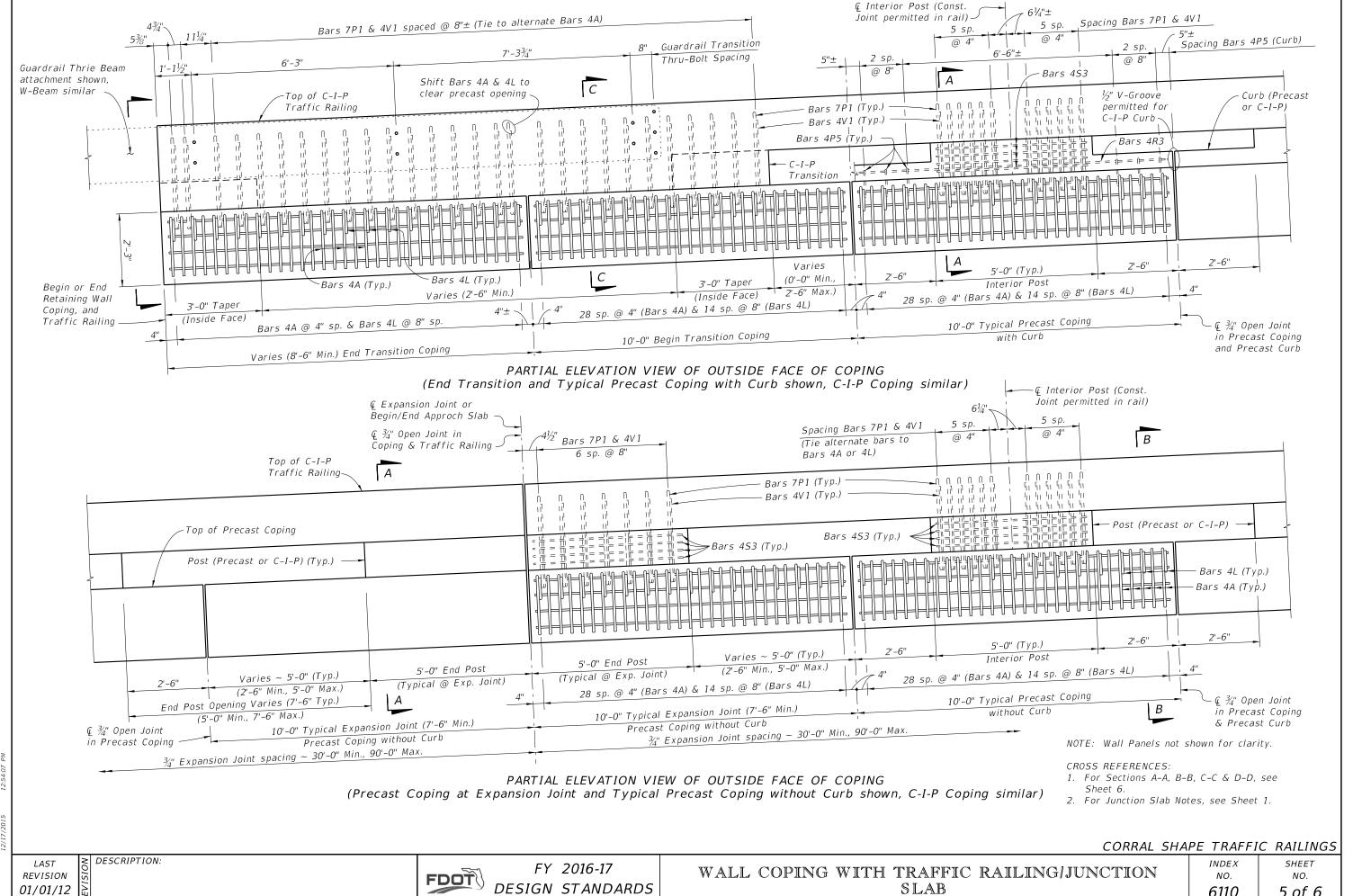


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**DESIGN STANDARDS** 

SLAB

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