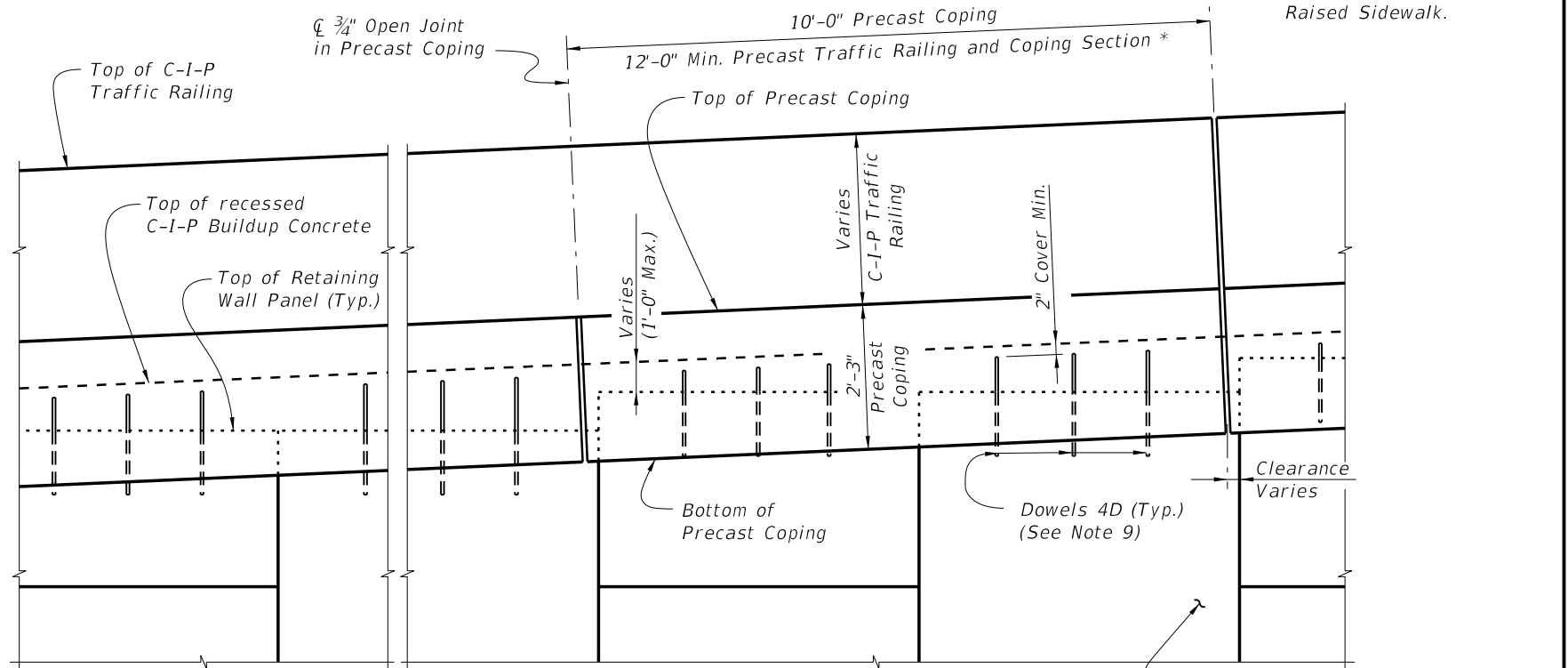


**PARTIAL PLAN VIEW FOR VERTICAL SHAPE TRAFFIC RAILING**  
 (Skewed Approach Slab Shown, Perpendicular Approach Slab Similar)  
 (Precast Coping Shown, C-I-P Coping Similar) (Traffic Railing not Shown for Clarity)

- RAISED SIDEWALK NOTES:**
- When a 42" Vertical Shape Traffic Railing is used with a precast coping, increase Bars 4C to Bars 5C or provide Bars 4C @ 4" spacing within 6'-0" of Expansion Joints.
  - Construct the raised sidewalk level transversely and expansion joints plumb; do not construct the raised sidewalk or C-I-P coping perpendicular to the roadway surface. Slip forming of coping and/or raised sidewalk is not permitted.
  - Provide Class II concrete for slightly aggressive environments or Class IV for moderately or extremely aggressive environments.
  - Dowel Load Transfer Devices will be ASTM A 36 smooth round bar and hot-dip galvanized in accordance with Specification Section 962. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
  - Construct 3/4" Expansion Joints in raised sidewalk and C-I-P copings plumb and perpendicular or radial to the Gutter Line. Provide at 90'-0" maximum intervals as shown.
  - Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 932.
  - Construct 1/2" V-Grooves in raised sidewalk and C-I-P coping plumb and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between 3/4" Expansion Joints and/or Begin or End Raised Sidewalk. V-Groove locations are to coincide with V-Groove locations in the Traffic Railing.
  - Spacing shown is along the Gutter Line.
  - For MSE Walls, provide Dowel Bars 4D and extend 8" above the top of retaining wall panel. Field cut as necessary to maintain 2" minimum cover to the top of the buildup concrete. See Wall Company Drawings for number and spacing of Dowel Bars 4D.
  - Finish Sidewalks in accordance with Specification Section 522.
  - Work this Index with the following:  
 Index No. 422 - Traffic Railing - (42" Vertical Shape)  
 Index No. 423 - Traffic Railing - (32" Vertical Shape)
  - The following Indexes contain details of the intersection of the retaining wall at approach slabs:  
 Index No. 20900 - Approach Slabs (Flexible Pavement Approaches)  
 Index No. 20910 - Approach Slabs (Rigid Pavement Approaches)




**PARTIAL ELEVATION VIEW**  
 (Precast Coping & Raised Sidewalk Reinforcing not Shown for Clarity)  
 (Precast Coping Shown, C-I-P Coping Similar)

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

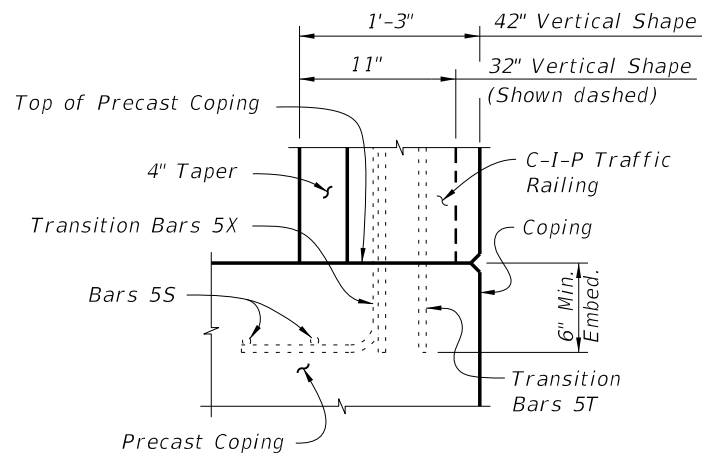
\* C-I-P End Section must be ≥ 12'-0".

**VERTICAL SHAPE TRAFFIC RAILINGS**

LAST REVISION 07/01/13	DESCRIPTION:	 <b>FDOT 2014          DESIGN STANDARDS</b>	<b>WALL COPING WITH TRAFFIC RAILING/RAISED          SIDEWALK</b>	INDEX NO. <b>6120</b>	SHEET NO. <b>1 of 3</b>
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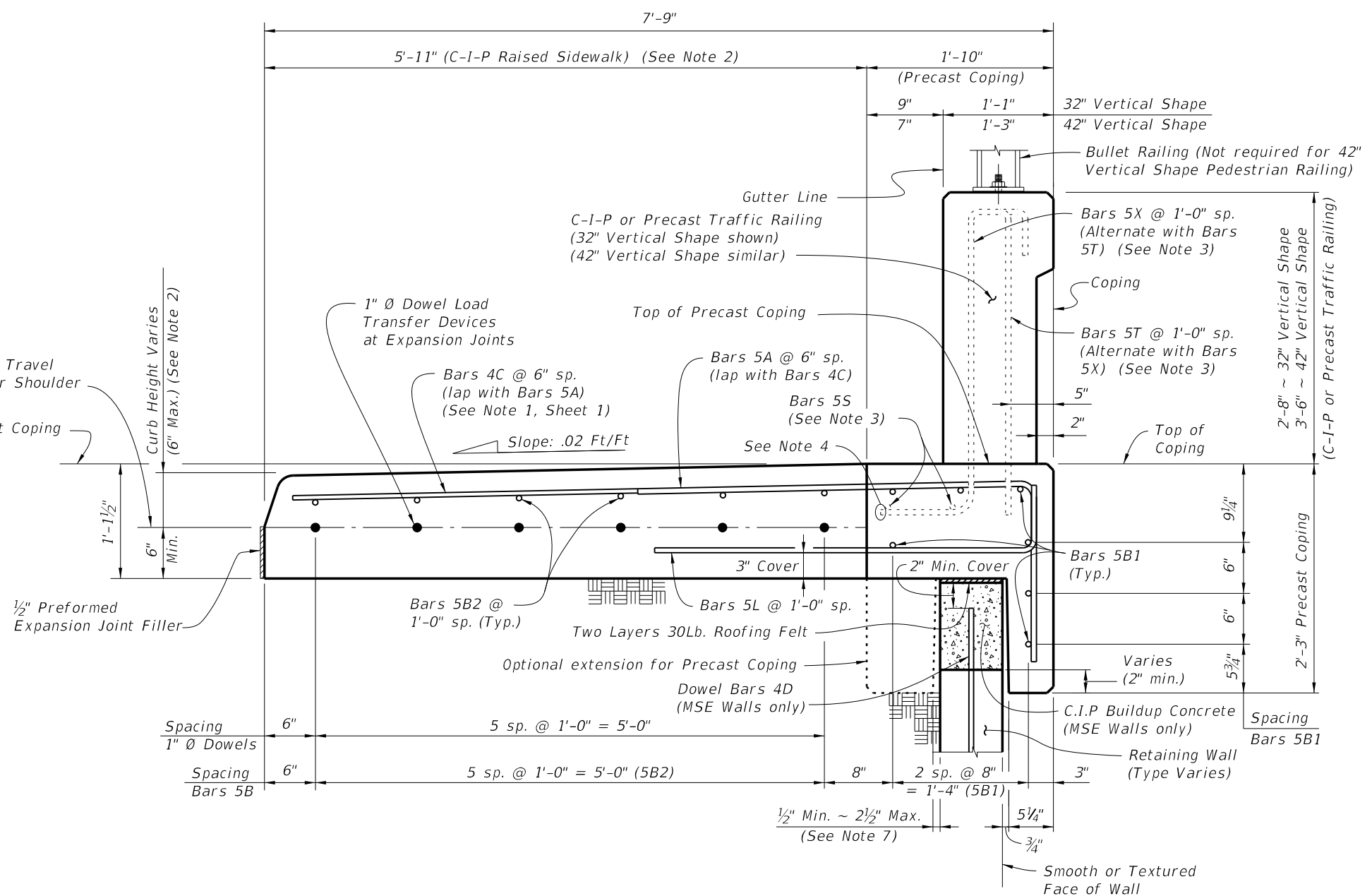
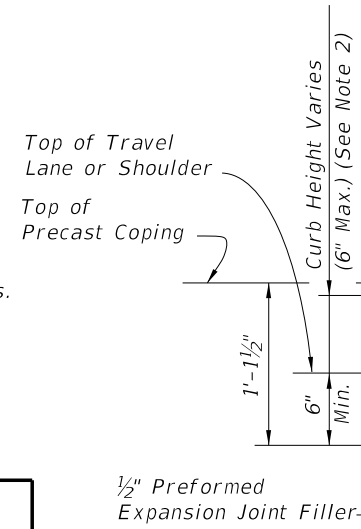


**PARTIAL END VIEW OF TRAFFIC RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT**  
(Showing Bars 5S, Bars 5T and Bars 5X)  
(Precast Coping Shown, C-I-P Coping Similar)

NOTE: See Index No. 422 and Index No. 423, Railing End Detail for details.

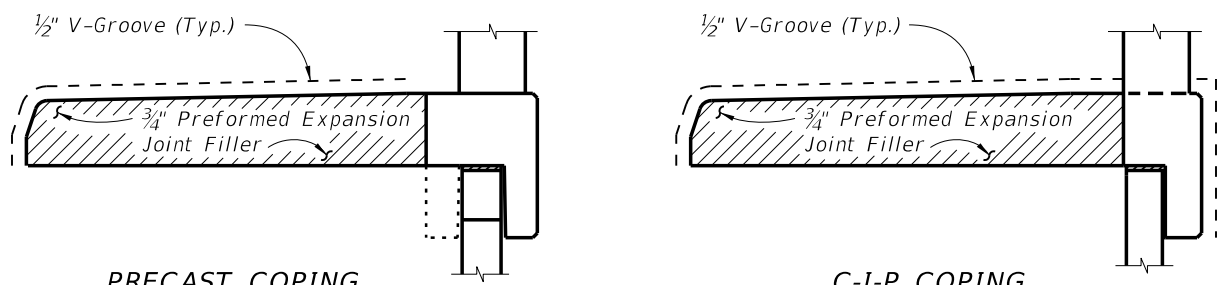
ESTIMATED QUANTITIES FOR PRECAST COPING		
ITEM	UNIT	QUANTITY
Concrete (Precast Coping)	CY/LF	0.095
Concrete (C-I-P Raised Sidewalk)	CY/LF	0.232
Reinforcing Steel (Precast Coping) excluding Bars 5T, 5X and 5S (Typ.)	LB/LF	23.90
Reinforcing Steel (C-I-P Raised Sidewalk) (Typ.)	LB/LF	13.50
Additional Reinf. @ Expansion Joints (Dowels)	LB	32.04

The above concrete quantities are based on a Type D Concrete Curb (See Note 2).




**TYPICAL SECTION THRU PRECAST COPING WITH C-I-P RAISED SIDEWALK AND RETAINING WALL AT EXPANSION JOINTS**

- NOTES:
- Actual width varies depending on type of Retaining Wall used.
  - Match roadway curb shape (Type) and height. See Roadway Plans and Index No. 300. 5'-11" dimension is based on a 32" Vertical Shape Traffic Railing with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
  - See Index No. 422 and Index No. 423 for Bars 5S, 5T & 5X and Bullet Railing details. Adjust vertical dimension of Bars 5T and 5X, see Reinforcing Steel Note 5.
  - Trim end of Bars 5T and 5X to clear construction joint for 42" Vertical Shape Traffic Railing.
  - At the Contractor's option, mechanical couplers may be used to splice reinforcing. Complete details, including reinforcement lengths are required in the Shop Drawings. Mechanical couplers shall develop 125% of the bar yield strength.
  - Contractor to maintain stability of precast coping prior to junction slab completion.
  - When the air gap between the precast coping extension and retaining wall exceeds 2 1/2", fill gap with full depth Expanded Polystyrene to provide a maximum 2 1/2" air gap.



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

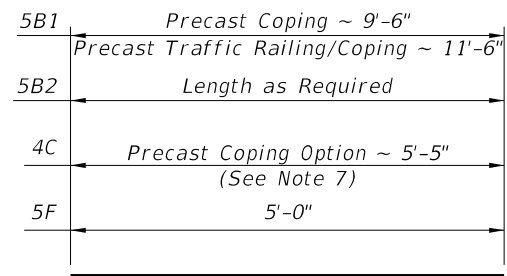
**VERTICAL SHAPE TRAFFIC RAILINGS**

LAST REVISION 07/01/13	DESCRIPTION:	 <b>FDOT 2014 DESIGN STANDARDS</b>	<b>WALL COPING WITH TRAFFIC RAILING/RAISED SIDEWALK</b>	INDEX NO. <b>6120</b>	SHEET NO. <b>2 of 3</b>
REVISION					

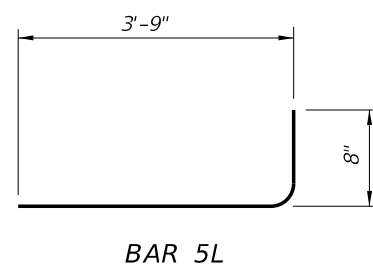
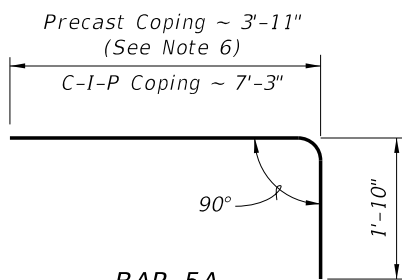
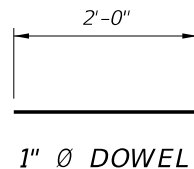
REINFORCING STEEL BENDING DIAGRAMS - RAISED SIDEWALK

BILL OF REINFORCING STEEL

MARK	SIZE	LENGTH	
		PRECAST COPING/RAILING	C-I-P COPING
A	5	5'-9"	9'-1"
B1	5	9'-6"/11'-6"	N/A
B2	5	AS REQD.	AS REQD.
C	4	5'-5"	N/A
F	5	5'-0"	5'-0"
L	5	4'-5"	4'-5"
1" Ø Dowel	Smooth Steel Bar	2'-0"	2'-0"



BARS 5B1, 5B2, 4C & 5F



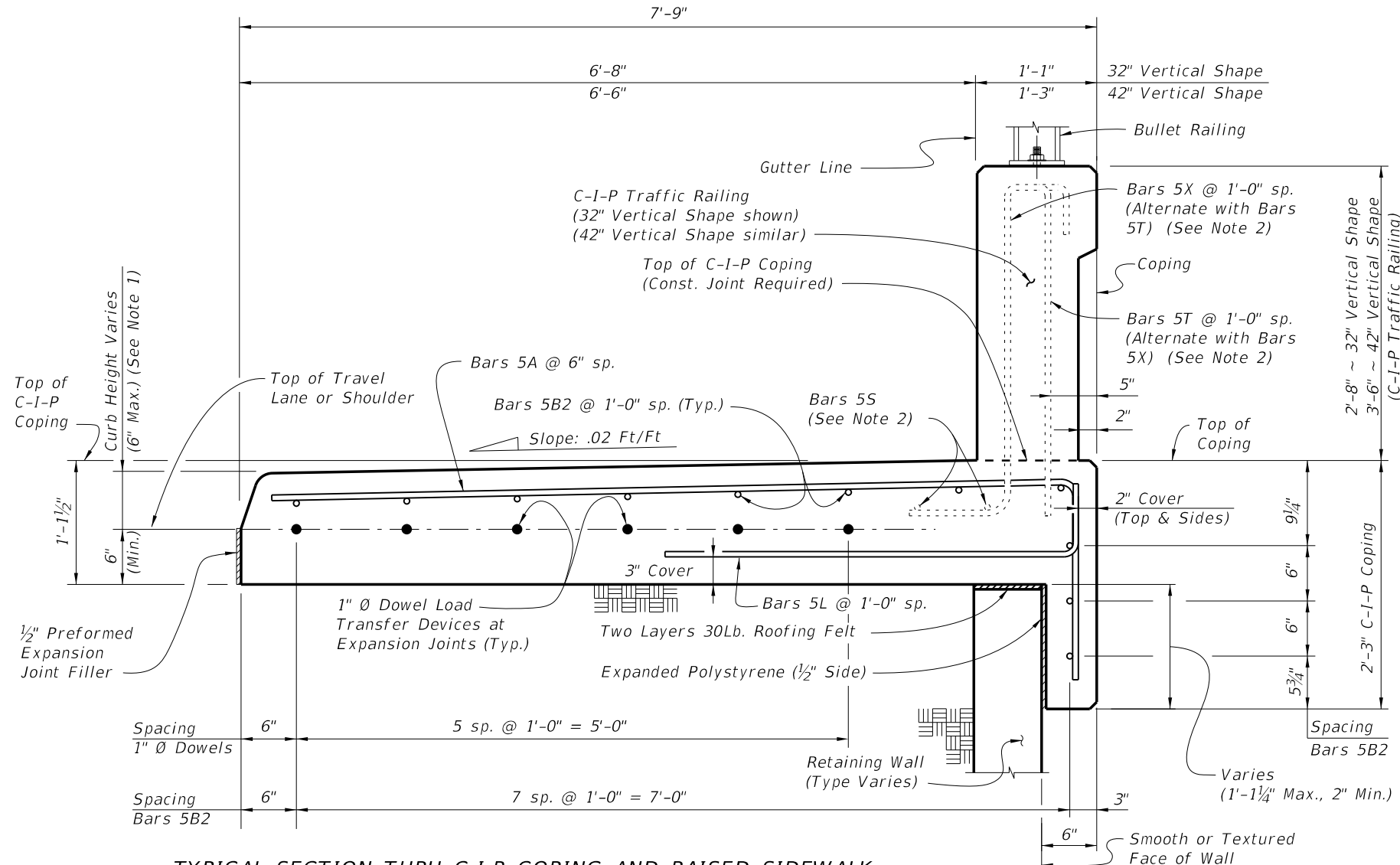
REINFORCING STEEL NOTES:

- All bar dimensions in the bending diagrams are out to out.
- All reinforcing steel at expansion joints will have a 2" minimum cover.
- Lap splices for Bars 5B will be a minimum of 2'-0".
- Lap splice Bars 5A with Bars 4C. Lap splices will be a minimum of 2'-0".
- See Index No. 422 and Index No. 423 for Bars 5S, 5T and 5X. Adjust vertical dimensions of Stirrup Bars 5T and 5X to 3'-0" for 32" Vertical Shape or 3'-10" for 42" Vertical Shape.
- Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 1'-8".
- Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 5'-8", and reinforcing size must be increased to #5 bars (Bars 5C).
- 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.

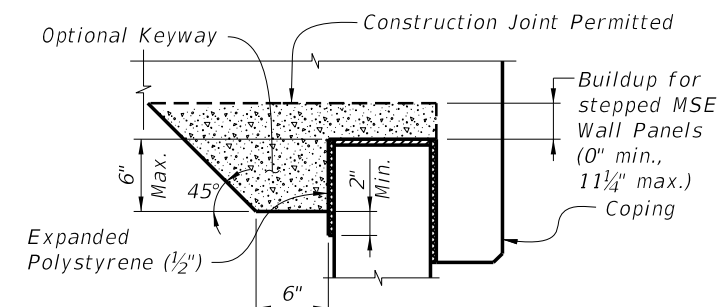
ESTIMATED QUANTITIES FOR C-I-P COPING

ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.326
Reinforcing Steel (Typical) excluding Bars 5T, 5X and 5S (Typ.)	LB/LF	35.03
Additional Reinf. @ Expansion Joints (Dowels)	LB	32.04

The above concrete quantities are based on a Type D Concrete Curb on a level Retaining Wall (See Note 1).



TYPICAL SECTION THRU C-I-P COPING AND RAISED SIDEWALK AND RETAINING WALL AT EXPANSION JOINTS



BUILDUP FOR STEPPED MSE WALL PANELS AND C-I-P COPING

NOTES:

- Match roadway curb shape (Type) and height. See Roadway Plans and Index No. 300. 6'-8" dimension is based on a 32" Vertical Shape Traffic Railing with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
- See Index No. 422 and Index No. 423 for Bars 5S, 5T & 5X and Bullet Railing details. Adjust vertical dimension of Bars 5T and 5X, see Reinforcing Steel Note 5.

VERTICAL SHAPE TRAFFIC RAILINGS

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