

edgeline. The cost of the Barrier Delineators shall be included in the Contract Unit Price for the Traffic Railing.

Provide $\frac{3}{4}$ " Intermediate Open Joints at :

- (1) Superstructure supports where slab is continuous.
- (2) Ends of approach slabs when adjacent to retaining walls and at expansion joints on retaining wall junction slabs.

CROSS REFERENCE: For Section A-A and View B-B, see Sheet 2. For Detail "A" see Sheet 3

REVISION 07/01/15

DESCRIPTION:

FDOT

FY 2016-17 DESIGN STANDARDS

INDEX NO. 423

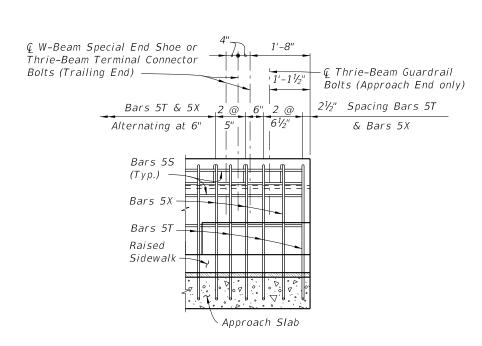
SHEET NO. 1 of 3

SECTION A-A TYPICAL SECTION THRU TRAFFIC RAILING SECTION THRU BRIDGE DECK SHOWN

NOTES:

DESCRIPTION:

Omit Railing End Taper and Guardrail if Concrete Barrier Wall is used beyond the Approach Slab. See Structures Plans, Plan and Elevation Sheet and Roadway Plans. If Railing End Taper is omitted, extend Typical Section to the end of the Approach Slab. Begin placing Railing Bars 5T and 5X on Approach Slab at the railing end and proceed toward Begin or End Bridge to ensure placement of guardrail bolt holes. If required, adjustments to the bar spacing for Bars 5T and 5X shall be made immediately adjacent to Begin or End Bridge. Shift and rotate Bars 5T and 5X on Approach Slab in end taper section as required to maintain cover.



VIEW B-B APPROACH SLAB END VIEW OF TRAFFIC RAILING

8" ±

CROSS REFERENCE:

Bars 5S

1'-0"

1'-1"

Special Height

Bicycle Railing

Bars 5T)

Pedestrian/Bicycle

-Bars 5X @ 1'-0" sp.

(Max.) (Alternate with

 ← Thrie-Beam Termina.

Connector & Guardrail Bolts (Approach End)

@ W-Beam Special
End Shoe Bolts
(Trailing End only)

Bars 5S (Field Bend as

Bars 5T @ 1'-0" sp. (Max.)

(Alternate with Bars 5X)

Required) (Typ.)

For location of Section A-A and View B-B see Sheet 1.

Const.

Standard Hook Top

to maintain cover)

Edge of Approach Slab (Coping)

Steel in Deck (Rotate

Joint

NOTE: For Post "B", Post "C" and Rail Details, see Index No. 822.

RAILING END DETAIL

LAST REVISION 07/01/15

FDOT

FY 2016-17
DESIGN STANDARDS

TRAFFIC RAILING - (32" VERTICAL SHAPE)

Additional Rail required for

(Special Height Bicycle Railing)

Railing)

(Pedestrian/Bicycle

Special Height Bicycle Railing

Pedestrian/Bicycle Railing

@

Raised

Sidewalk

2" Cover (Top)

4" Taper

.02 Ft/Ft

Bridge

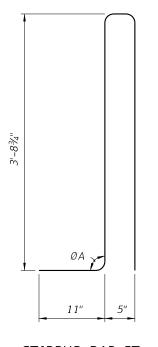
Deck

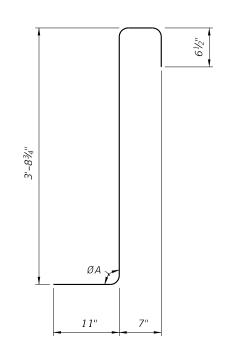
INDEX NO. **423** SHEET NO. 2 of 3

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL				
MARK	SIZE	LENGTH		
5	5	As Reqd.		
Т	5	9'-0"		
Х	5	5'-10"		

ROADWAY	ØA	
CROSS-SLOPE	LOW GUTTER	HIGH GUTTER
0% to 2%	90°	90°
2% to 6%	87°	93°
6% to 10%	84°	96°





Length as Required

BAR 5S

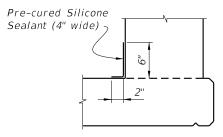
STIRRUP BAR 5T

DESCRIPTION:

STIRRUP BAR 5X

REINFORCING STEEL NOTES:

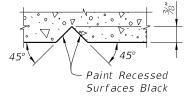
- 1. All bar dimensions in the bending diagrams are out to out.
- 2. The 3'-8¾" vertical dimensions shown for Bars 5T and 5X are based on a bridge deck with a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and a counter 2% raised sidewalk cross slope. If the raised sidewalk thickness, width or cross slopes vary from the above amounts, adjust these vertical dimensions accordingly to achieve a 6" minimum embedment into
- 3. The reinforcement for the railing on a Retaining Wall shall be the same as detailed with $\emptyset A = 90^{\circ}$.
- 4. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 5. Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
- 6. The Contractor may utilize Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.



DETAIL "A" - SECTION AT INTERMEDIATE OPEN JOINT

INTERMEDIATE JOINT SEAL NOTES:

- 1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- 2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- 3. The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.



SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

ESTIMATED TRAFFIC RAILING QUANTITIES				
ITEM	UNIT	QUANTITY		
Concrete	CY/LF	0.095		
Reinforcing Steel	LB/LF	25.90		

(The above quantities are based on a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and counter 2% sidewalk cross slope.)