

SUPERELEVATED BRIDGES: At the option of the Contractor the Traffic Railing on superelevated bridges may be constructed perpendicular to the roadway surface. The cost of all modifications will be at the Contractor's expense. REFLECTIVE RAILING MARKERS: Reflective Railing Markers' shall meet Specification Section 993. Install markers on top of the Traffic Railing along the centerline at the spacing shown in the table above. Reflector color (white or yellow) shall match the color of the near edgeline. The cost of the reflective markers shall be included in the Contract Unit Price for the Traffic Railing.

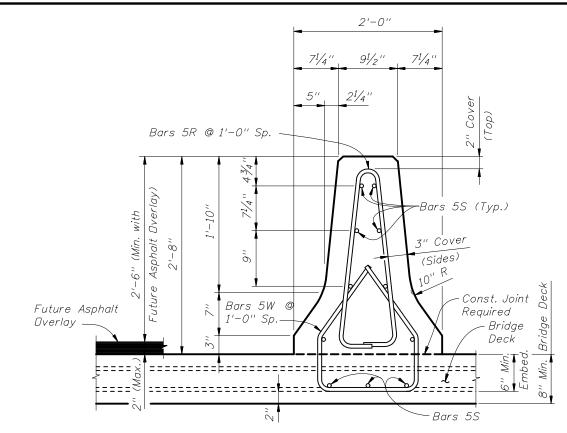
- (2) Midspan where span length exceeds 90 ft.
- (3) Intermediate locations (equally spaced) between midspan and substructure supports where span length exceeds 180 ft.

2010 FDOT Design Standards

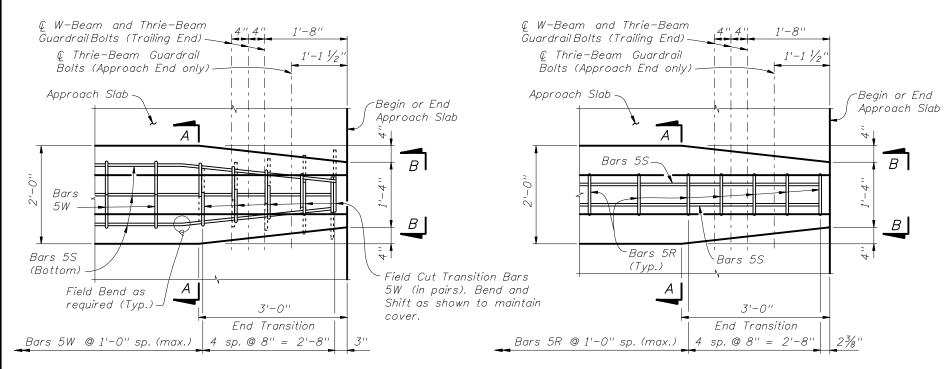
Sheet No. 07/01/08 1 of 3

TRAFFIC RAILING - (MEDIAN 32" F SHAPE)

1ndex No.



SECTION A-A
TYPICAL SECTION THRU TRAFFIC RAILING
(SECTION THRU BRIDGE DECK SHOWN SECTION THRU APPROACH SLAB SIMILAR)

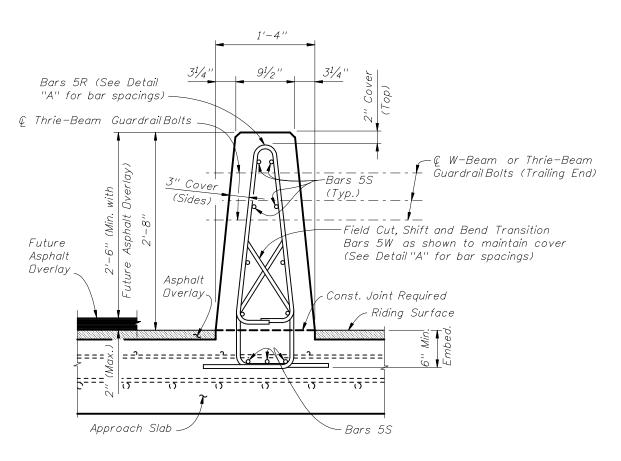


(Showing Bars 5W and 5S)

PLAN - Railing End Transition

PLAN – Railing End Transition (Showing Bars 5R and 5S)

DETAIL "A"



VIEW B-B

VU I E :

Begin placing Railing Bars 5R and 5W 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 5R and 5W shall be made immediately adjacent to Begin or End Bridge. Shift and rotate Bars 5R and 5W as required to maintain cover in Railing End Transition.

Omit Railing End Transition and Guardrailif Index 410 Concrete Barrier Wall is used beyond the Approach Slab. See Structures Plans, Plan and Elevation Sheet and Roadway Plans. If Railing End Transition is omitted, extend Typical Section to the end of Approach Slab and space Bars 5R and 5W at 1'-0" (Typ.)

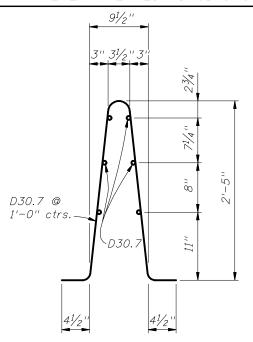
INSTRUCTIONS TO DESIGNER:

For Bridge Decks up to a maximum thickness of 9", the three Bars 5S placed in the deck may substitute for the longitudinal deck steel located within the limits of Bars 5W, provided that the total area of longitudinal deck steel beneath the railing, as required by calculation, is not reduced. Show these bars on the Structures Plans, Superstructure Sheets with the deck steel.

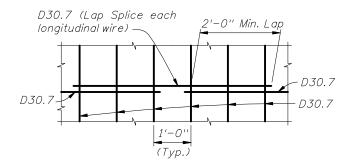
All Bars 5R, 5S and 5W as shown are included in the Estimated Traffic Railing Quantities. Do not include Bars 5R, 5S and 5W in the reinforcing bar lists and estimated quantities for supporting bridge decks or approach slabs.



ALTERNATE REINFORCING STEEL (WELDED WIRE REINFORCEMENT) DETAILS

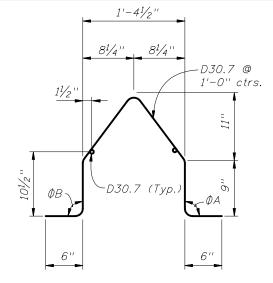


Welded Wire Reinforcement (WWR) Piece No. 2

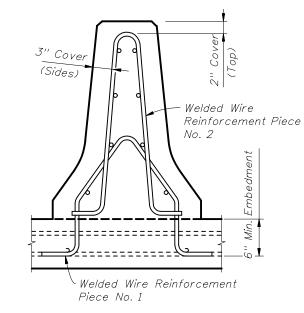


SPLICE DETAIL (Between WWR Sections)

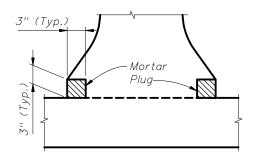
WELDED WIRE REINFORCEMENT NOTES:



Welded Wire Reinforcement (WWR)
Piece No. 1



- 1. At the option of the Contractor Welded Wire Reinforcement may be utilized in lieu of all Bars 5R, 5S and 5W. Welded Wire Reinforcement shall conform to ASTM A497.
- 2. Welded Wire Reinforcement at Railing End Transition shall be field bent inward as required (Pieces 1 & 2) to maintain cover. The top of Piece 1 shall be cut to allow overlap.
- 3. Place WWR panels so as to minimize the end overhang of longitudinal wires at Railing Ends and Open Joints. Overhangs greater than 6" are not permitted.



DETAIL "B" — SECTION AT INTERMEDIATE OPEN JOINT

NOTE: At Intermediate Open Joints, plug the lower 3" portion of the open joint by filling it with mortar in accordance with Section 400 of the Specifications.

ESTIMATED TRAFFIC RAILING					
QUANTITIES					
ITEM	UNIT	QUANTITY			
Concrete	CY/LF	0.120			
Reinforcina Steel	LB/LF	23.29			

(The above quantities are based on a crowned roadway, with a 2% cross slope)

ROADWAY	ON S	LOPE	AT CROWN		
CROSS-SLOPE	ΦA	ΦВ	ΦA	ΦВ	
0% to 2%	90°	90°	90°	90°	
2% to 6%	93°	87°	90°	90°	
6% to 10%	96°	84°	90°	90°	

ΦА	and	d ØB	shall be	90°	if	Contr	actor	elects	to	place	
raili.	ng	perp	endicular	to	the	deck,	and	approad	ch	slabs.	

	BILL OF REINFORCING STEEL				
	MARK	SIZE	LENGTH		
	R	5	6'-1''		
	S	5	As Reqd.		
I	W	5	5'-3"		
L			l		

Length as Required

TRANSITION STIRRUP BAR 5W
To Be Field Cut and Bent

(10 required per Railing

End Transition)

93/4"	Contractor's option (Typ. both legs)	
3" 3¾" 3"		BAR 5S
	45°	Portion of Bar 5W to be used
		Field Bend to maintain
2'-5"	54°30'	cover / Field Cut & / Discard
	$\begin{array}{c c} & \phi_A & \phi_B \\ \hline & \tilde{\phi} & \tilde{\phi} \\ \hline & \tilde{\phi} & \tilde{\phi} \\ \hline & \tilde{\phi} & \tilde{\phi} \\ \hline \end{array}$	δη ΦΑ or ΦΒ to match Typ. Bars
5½"	1'-4½'' (see No	Splice
(Typ.)		-

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

REINFORCING STEEL NOTES:

STIRRUP BAR 5R

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 3. Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-0".

STIRRUP BAR 5W

4. At the Contractor's option, Bars 5W may be fabricated as a two piece bar with a 1'-2'' lap splice of the bottom legs.

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