

Soundwall/ F-Shape

INSTRUCTIONS TO DESIGNER:

* For Bridge Decks up to a maximum thickness of 9", the two Bars SSI placed in the Bridge Deck may substitute for the longitudinal deck steel located within the limits of Bars 5V, provided that the total area of longitudinal deck steel beneath the barrier, as required by specification, is not reduced. Show these bars on the Superstructure Sheets with the deck steel.

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

DETAIL "B" - SECTION AT INTERMEDIATE OPEN JOINT

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL			ROADWAY CROSS-SLOPE			
MARK	SIZE	LENGTH	90°	90°	90°	90°
P	5	5'-7"				
R	5	7'-9"				
SI	5	AS REQ'D				
S2	5	7'-3"				
V	5	5'-1"				

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

REINFORCING STEEL NOTES:

- All bar dimensions in the bending diagrams are out to out.
- All reinforcing steel at the open joints shall have a 2" minimum cover.
- Bars SSI may be continuous or spliced at the construction joints. Lap splices for Bars SSI shall be a minimum of 2'-0".
- The Contractor may use Welded Wire Fabric when approved by the Engineer. Welded Wire Fabric shall conform to ASTM A497.
- Bars SR shall be one continuous bar. No mechanical couplers or lap splices are permitted.

ESTIMATED TRAFFIC RAILING BARRIER/SOUNDWALL QUANTITIES

ITEM	UNIT	QUANTITY
Concrete (Barrier)	CY/FT.	0.04
Concrete (Soundwall)	CY/FT.	0.45
Reinforcing Steel (Typical)	LB./FT.	78.57
Additional Reinf. @ Open Joint	LB.	430.24

(The above quantities are based on the typical section, 2% deck cross slope and barrier on low side of deck.)

CROSS REFERENCE:
For locations of Section A-A and Detail "B", see Index No. 1550, Drawing 1 of 3.
For location of View B-B, see Index No. 1550, Drawing 2 of 3.

BRIDGE NO. XXXXXX