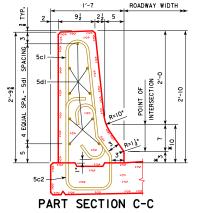
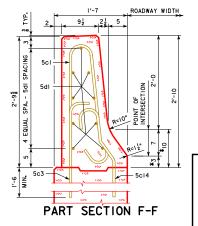


BARRIER RAIL JOINT DETAILS

## BARRIER RAIL NOTES:

- I. MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REIN-FORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.
- 2. THE PERMISSIBLE CONSTRUCTION JOINTS ARE TO BE PLACED BETWEEN VERTICAL BARS AT A MINIMUM SPACING OF 20 FEET. CONSTRUCTION JOINT CONTACT SURFACES ARE TO BE COATED WITH AN APPROVED BOND BREAKER.
- 3. COST OF THE JOINT SEALER AND BOND BREAKER SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.
- 4. ALL BARRIER RAIL REINFORCING STEEL IS TO BE EPOXY COATED.
- 5. THE CONCRETE BARRIER RAIL IS TO BE BID ON A LINEAL FOOT BASIS. THE NUMBER OF LINEAL FEET OF BARRIER RAIL INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT BASED ON PLAN QUANTITIES. PRICE BID FOR CONCRETE BARRIER RAILING SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, EXCLUDING REINFORCING STEEL, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAIL IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS. IF CONDUIT IS REQUIRED IN THIS PLAN THE RIGID STEEL CONDUIT, JUNCTION BOXES AND FITTINGS INCLUDING LABOR AND ANY ADDITIONAL WORK TO DO THE INSTALLATION IS CONSIDERED INCIDENTAL TO THE COST OF THE RAILING.
- 6. ALL BARRIER RAIL REINFORCING STEEL IS INCLUDED WITH THE SUPERSTRUCTURE REINFORCING STEEL.
- 7. THE JOINT SEALER SHALL BE LIGHT GRAY NONSAG LATEX CAULKING SEALER MARKETED FOR OUTDOOR USE. NO TESTING OR CERTIFICATION IS REQUIRED.
- 8. TOP OF THE BARRIER RAIL IS TO BE PARALLEL TO THE THEORETICAL & GRADE.
- 9. CROSS SECTIONAL AREA OF THE STANDARD SECTION OF THE BARRIER RAIL = 2.84 SQUARE FEET.
- IO. CONCRETE BARRIER RAILS PLACED USING THE SLIPFORM METHOD WILL REQUIRE THE LISE OF A CLASS BR CONCRETE IN ACCORDANCE WITH ARTICAL 2513.03A OF THE STANDARD SPECIFICATIONS, CAST-IN-PLACE BARRIER RAILS SHALL USE CLASS C MIX. CLASS D CONCRETE IS NOT PERMITTED FOR CONCRETE BARRIER RAILS (CAST-IN-PLACE OR SLIPFORMED METHODS).





\* DENOTES THE MAXIMUM VALUE FOR THIS DIMENSION, THIS DIMENSION MAY VARY DUE TO CONSTRUCTION INACCURACIES.

## EPOXY REINF. STEEL-TWO BARRIER RAILS SECTION BAR LOCATION SHAPE NO. LENGTH WEIGHT 706 5'-11 4357 5c1 VERTICAL 5c2 VERTICAL 686 6'-0 4293 20 3'-3 5c3 VERTICAL 5c14 VERTICAL 5dl LONGITUDINAL 180 37'-6 7041 BARRIER RAIL END SECTION 4 AT 458 LBS. (INCLUDE WITH SUPERSTRUCTURE REINFORCING) BAR DETAILS BENT 83

CONCRETE PLACEMENT SUMMARY		
SECTION		TOTAL
STANDARD SECTION	2 @ 353.0 @ 0.1052 CU. YD. PER FT.	74.3
BARRIER RAIL END SECTION	4 @ 0.65 CU. YD.	2.6
	TOTAL (CU.YD.)	76.9

1′-0

5c2

ALL DIMENSIONS ARE OUT TO OUT.
D = PIN DIAMETER.

NOTE:

CONCRETE BARRIER RAIL QUANTITIES			
ITEM		QUANTITY	
CONCRETE BARRIER RAILING	L.F.	734.0	



LATEST REVISION DATE

5cl

2'-10

D=3¾ <sup>()</sup> ທ\$

5c3



5c14

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

BARRIER RAIL DETAILS SHEET 2

RS40-088-10