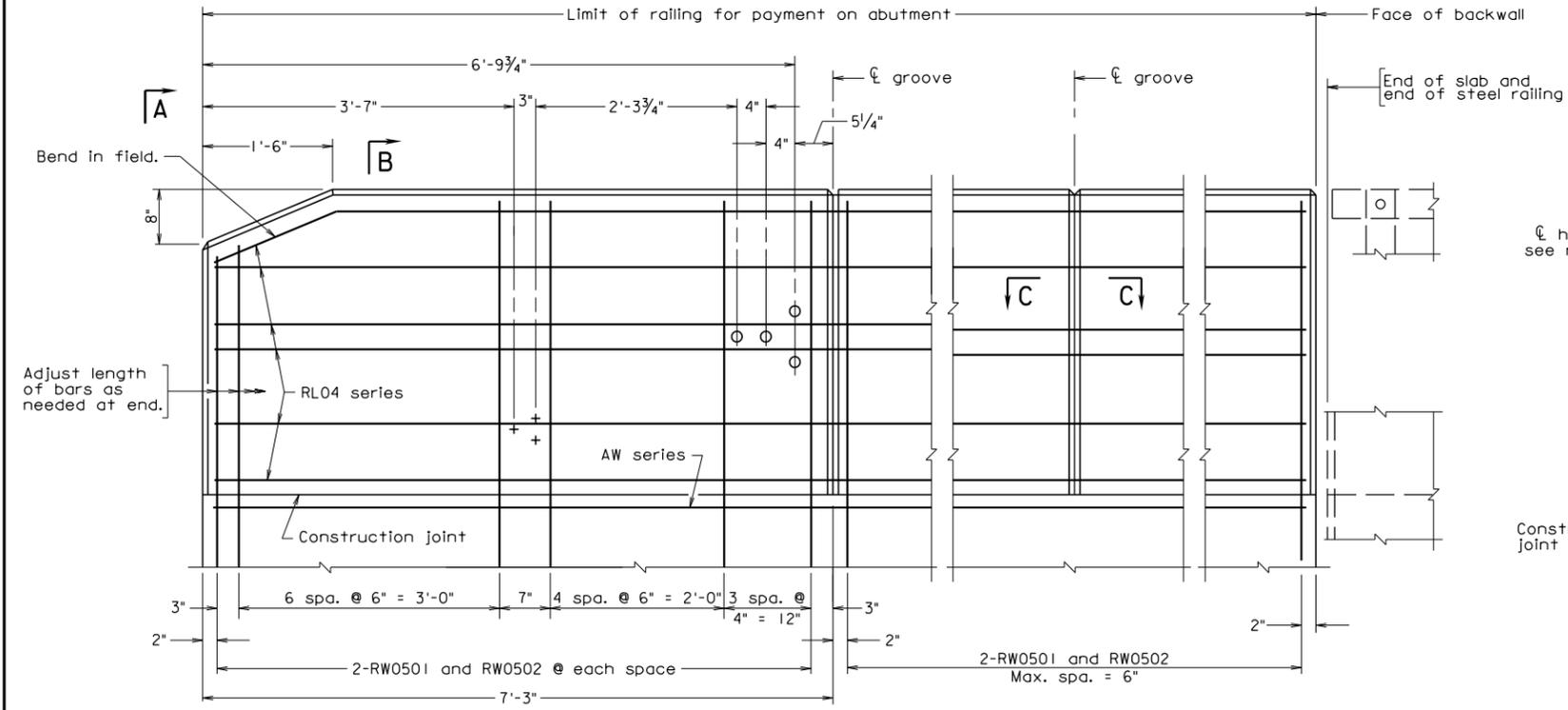
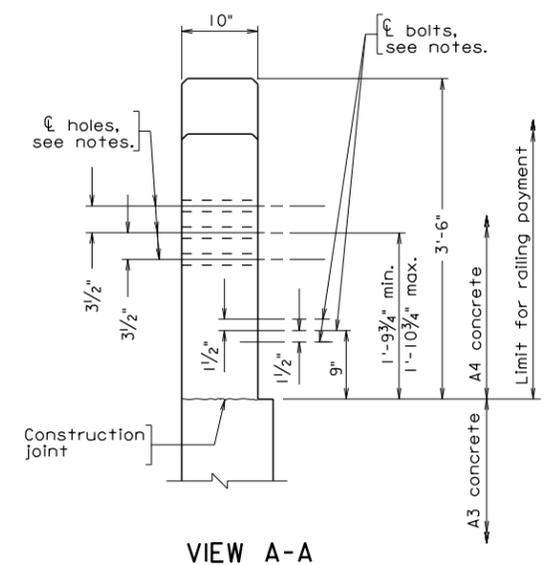


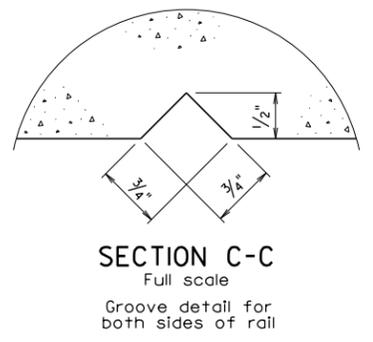
STATE	FEDERAL AID	STATE	SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT
VA.			



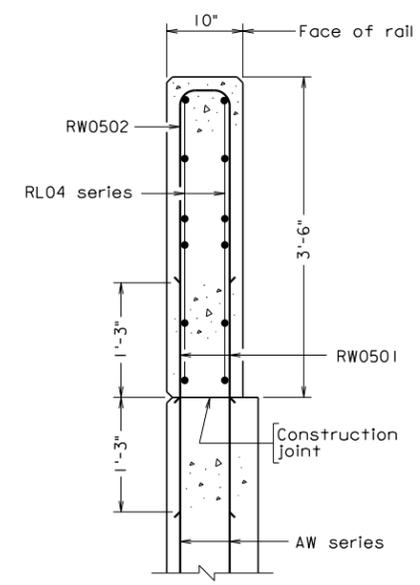
TERMINAL WALL ELEVATION U-BACK WING



VIEW A-A



SECTION C-C Full scale Groove detail for both sides of rail



SECTION B-B

Notes:  
 All bevels for concrete on this sheet shall be 3/4". Rounded edges with 1" radius may be used in lieu of bevels along top of rail.  
 All reinforcing bars shall be Corrosion Resistant Reinforcing Steel, Class ...  
 Each terminal wall shall be cast as one piece.  
 The Contractor shall determine all details necessary for installation.  
 All concrete shall be Class A4.  
 For details of wingwall below construction joint, see abutment sheets.  
 Terminal walls are detailed to take guardrail attachment GR-FOA-1.  
 Holes, where shown, shall be formed with sleeves of 1/2" diameter nominal pipe.  
 Bolts for guardrail attachment where shown shall be 5/8" diameter expansion anchor bolts 6" long to be drilled and installed when rub rail is attached.  
 For details and reinforcing steel schedule of steel railing, see sheet ...  
 Bid item for terminal wall shall include concrete noted in plans and reinforcing steel indicated in Reinforcing Steel Schedule.

REINFORCING STEEL SCHEDULE						
Mark	Size	No.	Length	Pin ø	Location	
RW0501	#5		2'-6"	—	Terminal wall and U-back wing	
RW0502	#5		7'-0"	3 3/4"	Terminal wall and U-back wing	
RL04	#4			—	Terminal wall and U-back wing	

Dimensions in bending diagram are out-to-out of bars.

BR27T-1 12-14-2012 br27t-1.dgn

Sealed and Signed by:  
 Julius F.J. Volgyi Jr.  
 Lic. No. 010487  
 On the date of  
 December 14, 2012

A copy of the original sealed and signed standard drawing is on file in the Central Office.

VDOT S&B DIVISION  
 RICHMOND, VA  
 STRUCTURAL ENGINEER

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
42" BR27C/BR27D TERMINAL WALL					
No.	Description	Date	Designed: S&B...DIV	Date	Plan No.
			Drawn: ...S&B...DIV		BR27T-1
			Checked: S&B...DIV		

**42"-BR27\_ STEEL RAILING**

**BR27T-SERIES**

**TERMINAL WALL ON ABUTMENT U-BACK WING**

**NOTES TO DESIGNER:**

The BR27\_steel railing uses the BR27T-series for concrete terminal walls in conjunction with the BR27C or BR27D series.

This concrete terminal wall standard has a height of 3'-6" from the roadway surface.

Include this standard when using standard BR27C-12 or BR27D-8 and when terminal wall is detailed on abutment U-back wing.

It is the Contractor's responsibility to determine the number of reinforcing bars required as well as any details or dimensions. Therefore, these items are to be left blank in the Reinforcing Steel Schedule.

AW series bars are included in abutment reinforcement.

**ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:**

VIEW A-A:

For projects with bituminous overlay, modify vertical dimension 9" and the range (1'-9¾" min. – 1'-10¾" max.) for location of bolts and 3'-6" height of terminal wall so that these dimensions will be established from top of overlay surface.

SECTION B-B:

For projects with bituminous overlay, modify vertical dimension 3'-6" so that this dimension will be established from top of overlay surface.

NOTES:

Complete first note by adding the Class I, II or III of corrosion resistant reinforcing steel required. For additional information on corrosion resistant reinforcing steel (CRR), see Structure and Bridge Division Memorandum (current IIM-S&B-81).

Complete sheet no. for details and reinforcing steel schedule of steel railing.

**42"-BR27\_ STEEL RAILING**

**BR27T-SERIES**

**TERMINAL WALL ON ABUTMENT U-BACK WING**

**ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD: (cont'd)**

REINFORCING STEEL SCHEDULE:

Add length for rebar RL04 series.

For projects with bituminous overlay bituminous, adjust dimension and length of rebar RW0502.

TITLE BLOCK:

Replace standard designation with Plan No.