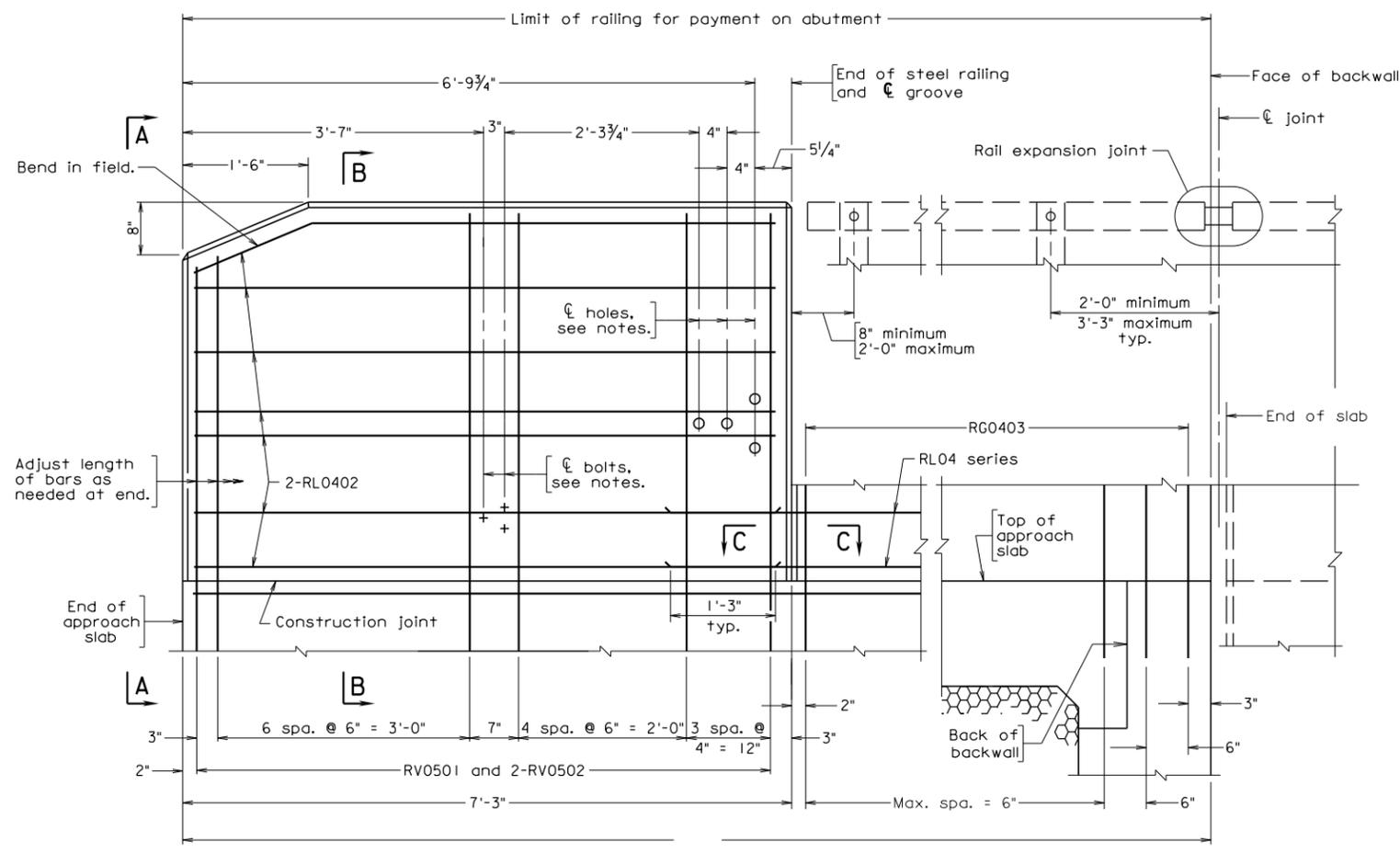
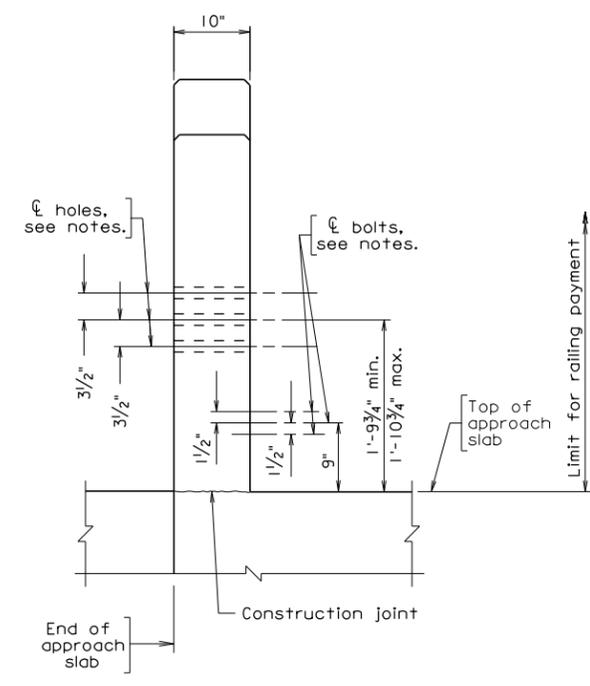


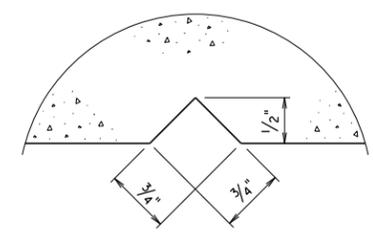
STATE	FEDERAL AID		STATE		SHEET
ROUTE	PROJECT		ROUTE	PROJECT	NO.
VA.					



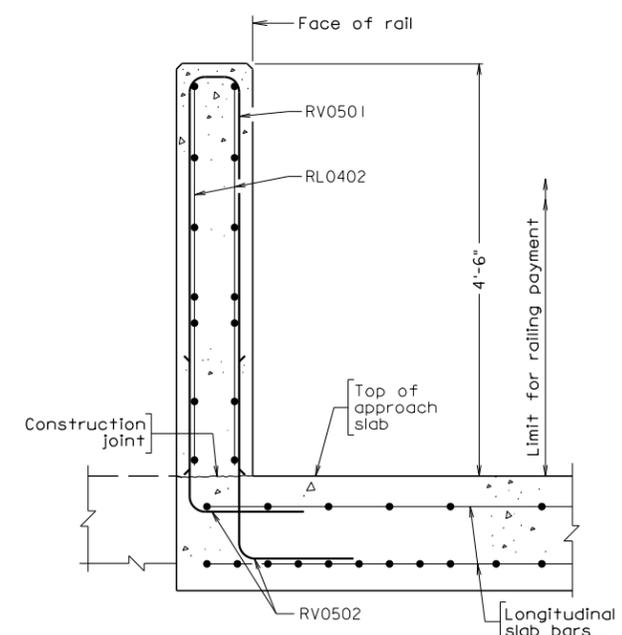
TERMINAL WALL ELEVATION ABUTMENT



VIEW A-A



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



Note: Transverse approach slab bars not shown.

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					
RV0501	RV0502	RG0403			
Mark	Size	No.	Length	Pin $\phi$	Location
RL0402	#4		6'-11"	—	Terminal wall
RV0501	#5		9'-0"	3 3/4"	Terminal wall
RV0502	#5		3'-0"	3 3/4"	Terminal wall
RG0403	#4			3"	Parapet
RL04	#4			—	Parapet

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

br27t-9.dgn

12-14-2012

BR27T-9

Sealed and Signed by:  
Julius F.J. Volgyt 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					
54" BR27C/BR27D TERMINAL WALL					
No.	Description	Date	Designed: S&B...DIV	Date	Plan No.
			Drawn: ...S&B...DIV		BR27T-9
			Checked: S&B...DIV		
Revisions					

Scale: 1" = 1'-0" unless otherwise noted.

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**BR27\_ STEEL RAILING  
BR27T-SERIES**

**TERMINAL WALL ON APPROACH SLAB**

**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 4'-6" from the roadway surface.

Include this standard when using standard B27C-13 or BR27D-9 and when terminal wall is detailed on approach slab. This terminal wall with parts of steel railing joined together with the approach slab shall be part of the steel railing for payment under the abutment. For geometrics of terminal wall with approach slab, see Office Practice, Vol. V-Part 2, Chapter 6, sheets 7-2 and 7-3.

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.

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

ELEVATION:

Provide overall length from end of approach slab to face of backwall.

VIEW A-A:

For projects with bituminous overlay, modify vertical dimension 9" and the range (1'-9 $\frac{3}{4}$ " min. – 1'-10 $\frac{3}{4}$ " max.) for location of bolts so that these dimensions will be established from top of overlay surface.

SECTION B-B:

For projects with bituminous overlay, modify vertical dimension 4'-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 steels (CRR), see Structure and Bridge Division Memorandum (current IIM-S&B-81).

Complete sheet nos. for details of approach slab, for details and reinforcing steel schedule of steel railing and for rail expansion joint detail.

**STANDARD BR27T-9: NOTES TO DESIGNER**

VOL. V - PART 3  
DATE: 14Dec2012  
SHEET 2 of 3  
FILE NO. BR27T-9-2

**BR27\_ STEEL RAILING  
BR27T-SERIES**

**TERMINAL WALL ON APPROACH SLAB**

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

REINFORCING STEEL SCHEDULE:

Add dimensions and length for rebar RG0403.

Add length for rebar RL04 series.

TITLE BLOCK:

Replace standard designation with Plan No.

**STANDARD BR27T-9: NOTES TO DESIGNER**

VOL. V - PART 3  
DATE: 06Apr2012  
SHEET 3 of 3  
FILE NO. BR27T-9-3