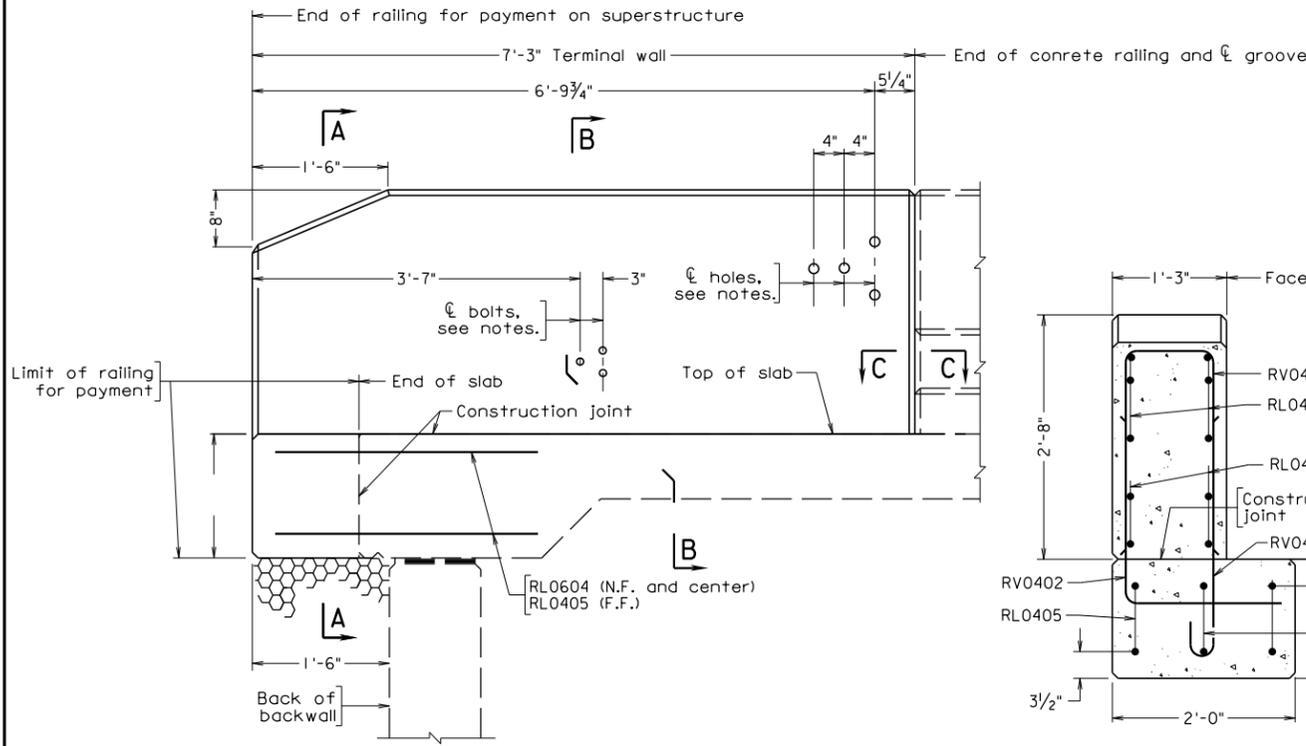
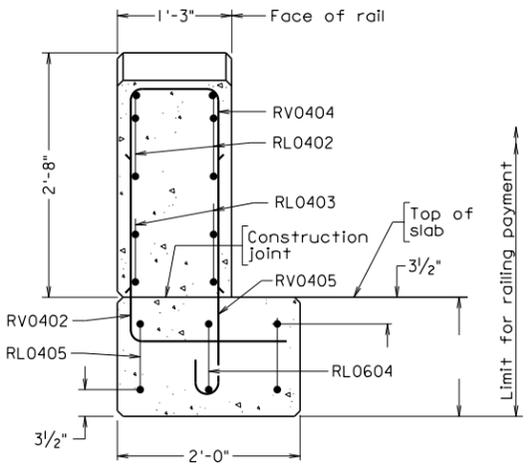


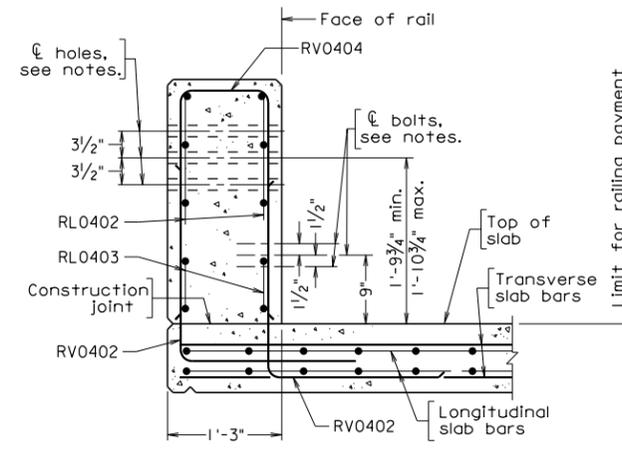
STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	PROJECT	



DECK SLAB EXTENSION ABUTMENT

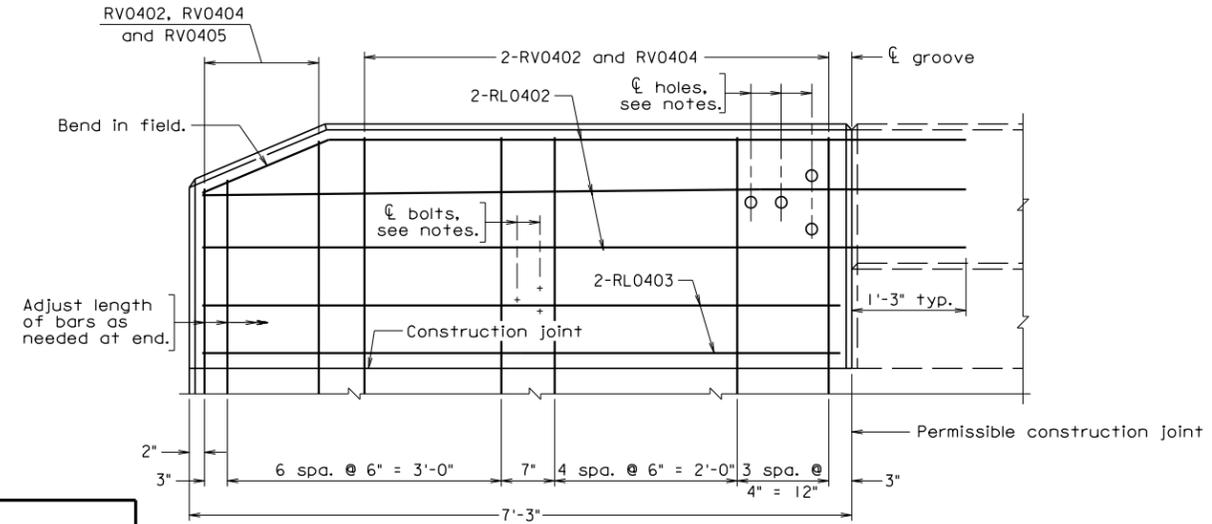


SECTION A-A

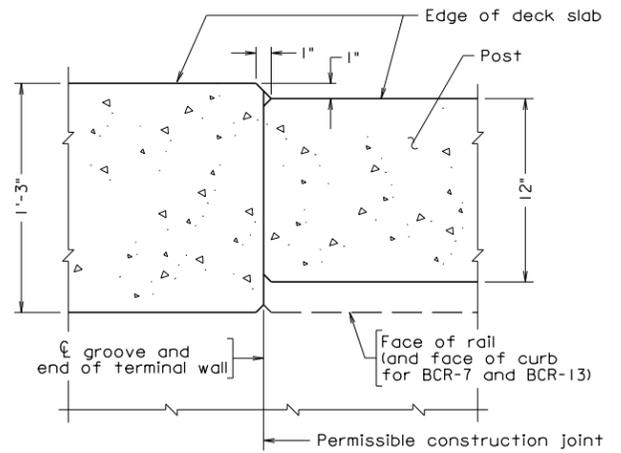


SECTION B-B

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, where shown, shall be 5/8" dia. expansion anchor bolts, 6" long to be drilled and installed when rub rail is attached.
For details and reinforcing steel schedule of cast-in-place concrete railing, see sheet ...
Bid item for terminal wall shall include concrete noted in plans and reinforcing steel indicated in Reinforcing Steel Schedule.



ELEVATION - TERMINAL WALL



SECTION C-C
Scale: 2" = 1'-0"

REINFORCING STEEL SCHEDULE						
RV0402	RV0404	RV0405				
Mark	No.	Size	Pin ϕ	Length	Location	
RL0402		#4		8'-4"	Terminal wall	
RL0403		#4		6'-11"	Terminal wall	
RL0604		#6		4'-0"	Terminal wall end support	
RL0405		#4		4'-0"	Terminal wall end support	
RV0402		#4	3"		Terminal wall	
RV0404		#4	3"	5'-10"	Terminal wall	
RV0405		#4	3"		Terminal wall	

Dimensions in bending diagram are out-to-out of bars, except as shown.

bc9.dgn

12-14-2012

BCR-9

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

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

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COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
CAST-IN-PLACE TERMINAL WALL 32" KANSAS CORRAL					
No.	Description	Date	Designed: S&B DIV	Date	Plan No.
			Drawn: S&B DIV		
			Checked: S&B DIV		
Revisions					BCR-9
					Sheet No.

**CAST-IN-PLACE CONCRETE RAILING
KANSAS CORRAL (2'-8")**

TERMINAL WALL ON SUPERSTRUCTURE WITH DECK SLAB EXTENSION

NOTES TO DESIGNER:

Include this standard when using standard BCR-3 or BCR-4.

Terminal wall is detailed on the deck slab extension of a superstructure or on a slab span. A 2'-0" wide section at the edge of superstructure is extended further from the end of deck slab to an overall distance of 1'-6" from the end of the terminal wall to the back of abutment backwall (back of abutment seat, in the case of a slab span). This concrete section and the terminal wall shall be part of the steel railing for payment. The superstructure plan would need to be adjusted to reflect the slab extension at the corner of the end deck slab or slab span.

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.

Transverse bars and longitudinal bars of the deck slab or slab span are included in the Superstructure Reinforcing Steel Schedule.

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

ELEVATION:

Provide dimension of terminal wall end support.

SECTION A-A:

Provide dimension of terminal wall end support.

For projects with bituminous overlay, modify 2'-8" height of terminal wall so that this dimension will be established from top of overlay surface.

SECTION B-B:

For projects with bituminous overlay, modify the vertical dimension 9" and the range (1'-9³/₄" min. – 1'-10³/₄" max.) for location of bolts so that these dimensions 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 deck slab extension or slab span and for cast-in-place concrete railing.

STANDARD BCR-9: NOTES TO DESIGNER

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

**CAST-IN-PLACE CONCRETE RAILING
KANSAS CORRAL (2'-8")**

TERMINAL WALL ON SUPERSTRUCTURE WITH DECK SLAB EXTENSION

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

REINFORCING STEEL SCHEDULE:

Add dimensions and lengths for rebars RV0402 and RV0405.

For projects with bituminous overlay, modify rebar lengths to allow for dimension changes.