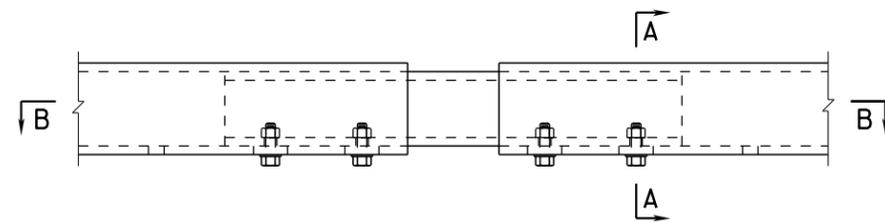
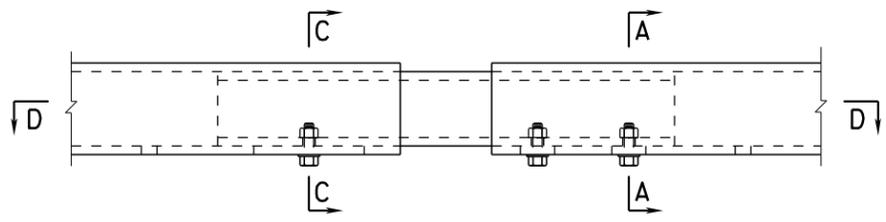


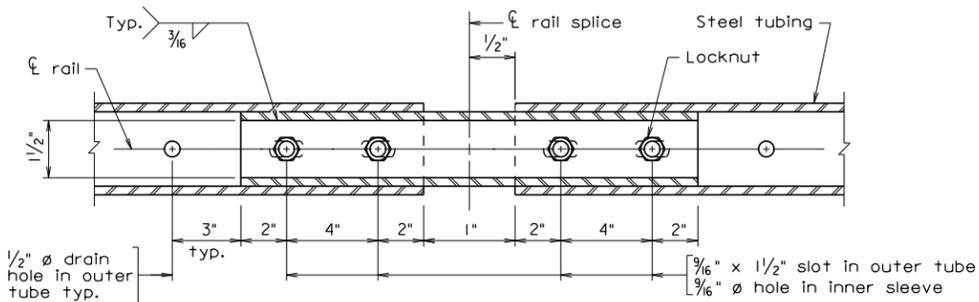
STATE	FEDERAL AID	STATE	SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT
VA.			



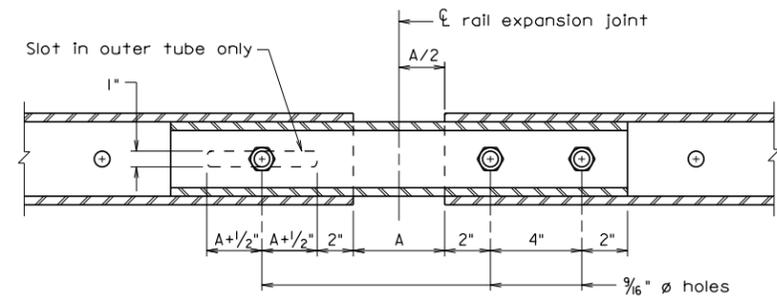
ELEVATION VIEW



ELEVATION VIEW

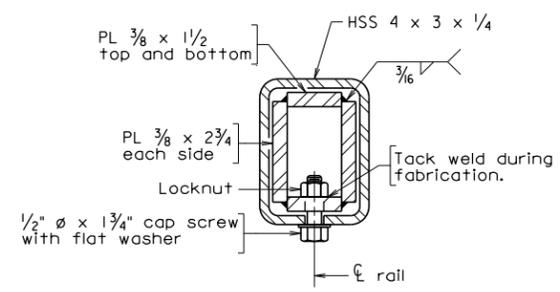


SECTION B-B



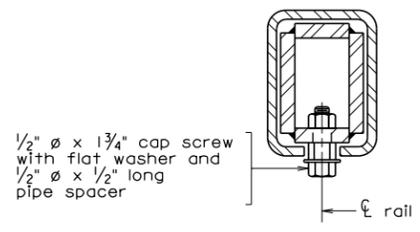
SECTION D-D

For details and dimensions not shown, see Section B-B.



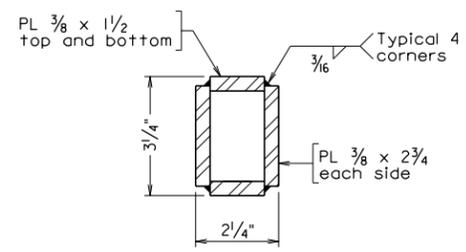
SECTION A-A
SECTION AT RAIL SPLICE

RAIL SPLICE DETAILS



SECTION C-C
Details not shown similar to Section A-A.

RAIL EXPANSION JOINT DETAILS



FINISHED DIMENSIONS OF INNER SLEEVE RAIL

Notes (cont'd):

Rail expansion joint shall be provided between any two posts which span a deck expansion joint. Dimension A for expansion joint is equal to deck joint opening plus 1". Bolts in slot on the expansion side shall be lightened only to a point that will allow railing movement.

Drain holes shall be 1/2" diameter and shall be provided in all rails approximately half-way between posts except at open joints near pier(s). Drain holes shall be provided at each end of rail.

Anchor bolts may be set normal to profile grade but may require beveled washers.

Barrier delineator size, color, and spacing shall be in accordance with the Specifications. Reflective surface of barrier delineator, in all instances, shall face oncoming traffic.

Maximum spacing of grooves in pedestal shall be limited to 3 x post spacing, shall be centered between posts and shall be no closer than 10'-0" to joints.

Alternate details for inner sleeve rail fabrication and bolted connection to outer tube may be submitted, but only used if approved by the Structure and Bridge Division Engineering Services Program Area. No thru-bolt connections will be approved.

Bid item for railing shall include rails, rail posts, bearing pads, bolts, anchor assemblies, sleeves, barrier delineators, grounding materials and other associated metal parts as shown on the plans. Also included are concrete noted in the plans and reinforcing steel indicated in the reinforcing steel schedule.

BR27D-11 03-10-2015 br27d11.dgn

Sealed and Signed by:
Prasad L. Nallapaneni
Lic. No. 033003
On the date of
March 10, 2015

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	
BR27D RAIL CONNECTIONS AND NOTES			
No.	Description	Date	Sheet No.
	Revisions		BR27D-11

BR27D-SERIES STEEL RAILING
RAIL CONNECTIONS AND NOTES

NOTES TO DESIGNER:

Include this standard in plans when using standard, BR27D-8 to BR27D-10.

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

TITLE BLOCK:

Replace standard designation with plan number.