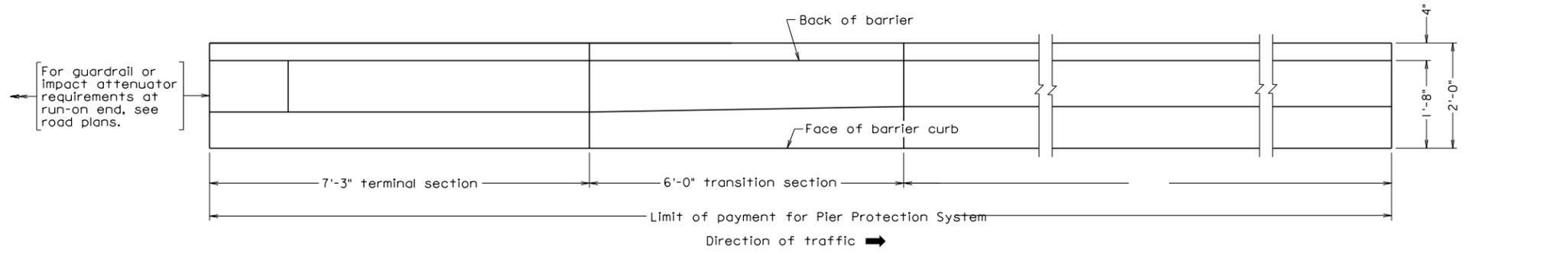
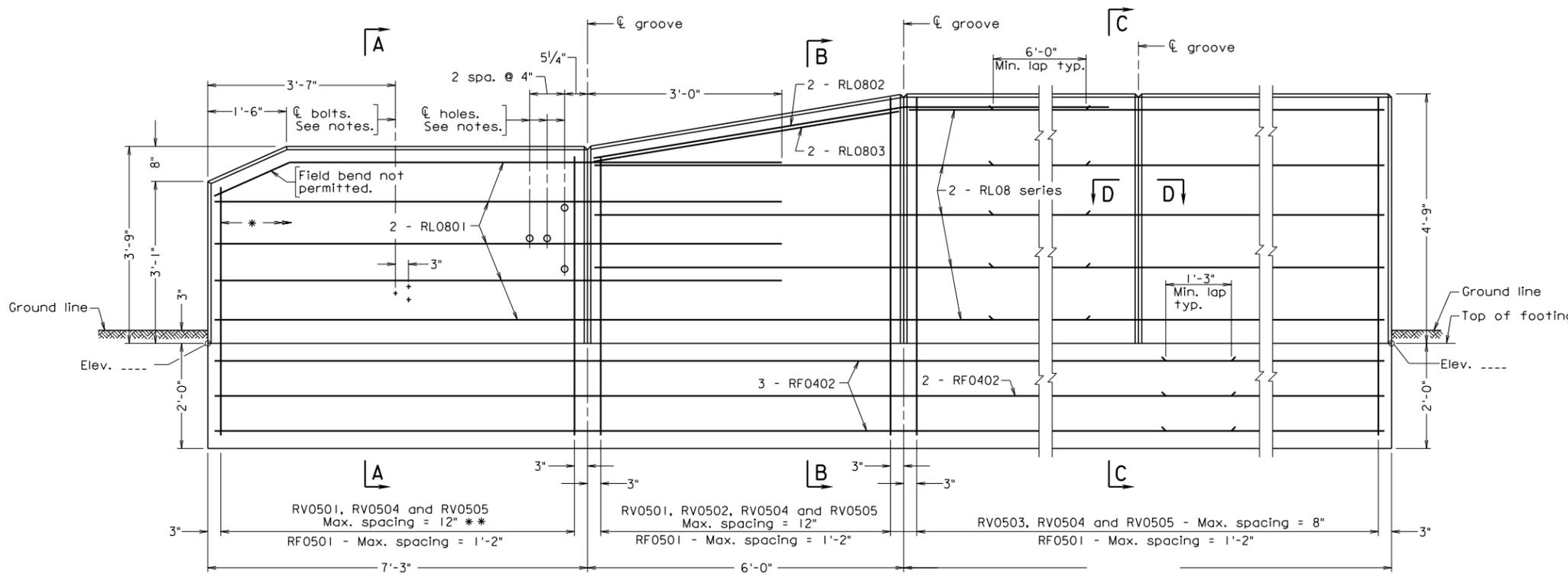


STATE	FEDERAL AID		STATE		SHEET NO.
ROUTE	PROJECT		ROUTE	PROJECT	
VA.					



PLAN



ELEVATION

* Adjust length of bars as needed at end.
 ** Adjust spacing to clear bolts and holes.

Notes:

- Plan dimensions shown are measured in the respective horizontal and vertical planes.
- The Contractor shall determine all dimensions and details necessary for installation.
- All concrete shall be Class A4.
- All chamfers for concrete shall be 3/4".
- All reinforcing steel shall be ASTM A615, Grade 60.
- Spacing of grooves shall be approximately 8'-0". Spacing of transverse construction joints for crack control shall be at approximately 24'-0" to coincide with centerline of groove. Transverse construction joint through barrier and footing shall be at the same location.
- Barrier delineator size, color and spacing shall be in accordance with the Specifications.
- Terminal sections are detailed to take guardrail attachment GR-FOA-2. Holes where shown, shall be formed with sleeves of 1/2" diameter nominal pipe. Bolts, where shown, shall be 3/8" diameter expansion bolts, 6" long and shall be drilled and installed when rub rail is attached.
- For reinforcing steel schedule and details not shown, see sheet ...
- Payment: Pier Protection System shall be paid for on a lump sum basis, wherein no measurement shall be made, and shall be paid for at the contract lump sum price, which price shall include within the pay limits shown, the parapet, footing, excavation for footing and backfilling as directed by the Engineer and all miscellaneous hardware as detailed on the plans. Such price shall be full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete the work.

BPPS-1 05-18-2016

Sealed and Signed by:
 Prasad L. Nallapaneni
 Lic. No. 033003
 On the date of
 May 18, 2016

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

LAYOUT OF BARRIER FOR PIER PROTECTION
 Scale: -----

Scale: 3/4" = 1'-0" unless otherwise shown. © 2016, Commonwealth of Virginia

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION				
STRUCTURE AND BRIDGE DIVISION				
PIER PROTECTION SYSTEM				
No.	Description	Date	Designed: S&B, DIV	Sheet No.
			Drawn: S&B, DIV	BPPS-1
			Checked: S&B, DIV	
Revisions			Date	Plan No.

PIER PROTECTION SYSTEM

NOTES TO DESIGNER:

This standard also requires the inclusion of Standard BPPS-2 in the set of plans.

See Part 2, Chapter 15: Pier Details, of this manual for design guidance and examples of pier protection system.

Designer shall coordinate with roadway designer for barrier termination at the run-on end (guardrail, impact attenuator, etc.). The terminal section is detailed to accommodate guardrail attachment GR-FOA-2.

Reference to barrier height is for portion above ground line. The standard indicates 3" of barrier below ground line to top of 2'-0" x 2'-0" footing.

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

PLAN:

Add dimension for length of 54" barrier section. If project is "bridge only", add sheet number for details at end of barrier (run-on side).

ELEVATION:

Add dimension for length of 54" barrier section. Use 1'-0" multiples for barrier length(s). Add elevations.

LAYOUT OF BARRIER FOR PIER PROTECTION:

Show plan view of pier column(s) or pier stem. Show tie point for intersection of CL pier and CL bridge such that the Contractor can lay out the footing for the Pier Protection System (location, orientation, etc.). The CL pier may not be parallel to the roadway. Show distance from face of barrier curb to CL pier. Show terminal section (42" high barrier), transition section (42" to 54" high barrier) and 54" high barrier section. Show stations of two ends at the face of barrier curb.