

# MATERIAL SPECIFICATION TABLE

MATL	PART	MATERIAL SPECIFICATION
STEEL	RAILS & BALUSTERS	ASTM A53 GRADE B OR ASTM A500 GRADE C SCHEDULE 40 (STD. PIPE). GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
	WASHERS	ASTM A193 GRADE B7 GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
	PLATES/BAR CHANNELS	ASTM A36 GALVANIZED IN ACCORDANCE WITH AASHTO M 111
	DRIVE PINS	ASTM A276 OR A240 TYPE 302 STAINLESS STEEL
	ANCHOR BOLTS & WASHERS	STANDARD SPECIFICATION SECTION 9-06.5(4) GR. 36 (GALVANIZE IN ACCORDANCE WITH AASHTO SPECIFICATION M 232)
	NUTS	TAMPER-PROOF TYPE ZINC ALLOY SEE SPECIAL PROVISIONS SECTION 6-06.2

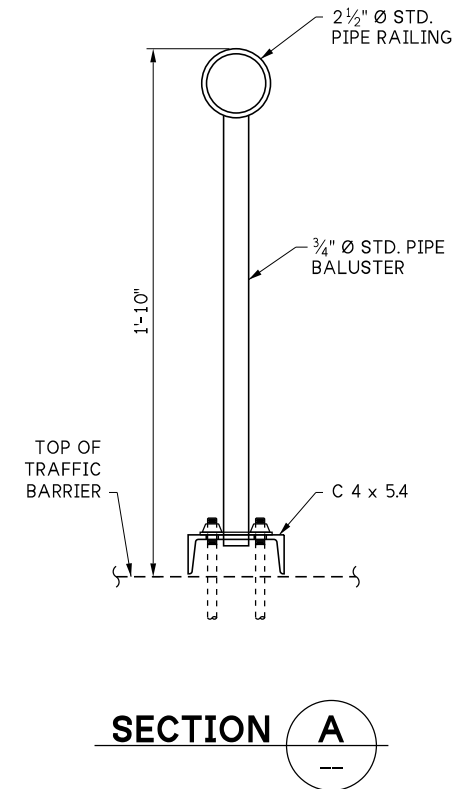
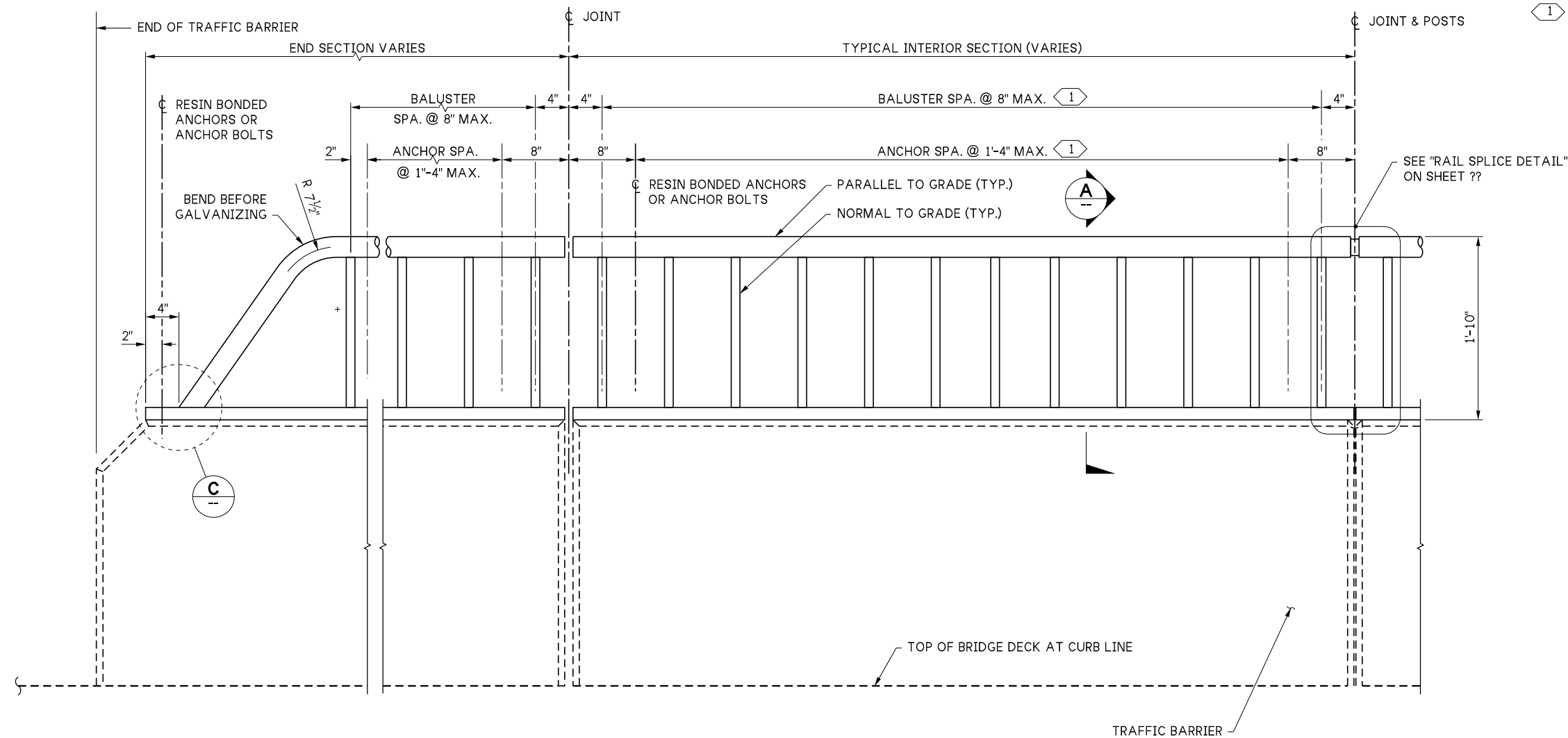
## NOTES:

- PIPE RAILING, PIPE RAILING SPLICES AND BOTTOM CHANNELS SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED AS A TYPE 2 WORKING DRAWING SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- WELDING OF STEEL SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1.
- PIPE RAILING, PIPE BALUSTERS, AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.

## KEY NOTES:

- 1 BALUSTER & ANCHOR SPACINGS SHOWN ARE MAXIMUM ALLOWABLE, VARY AS NECESSARY ADJACENT TO BRIDGE EXPANSION JOINTS.

LAST REVISED: 06/06/2025



**ELEVATION**  
BALUSTER ATTACHMENT DETAILS NOT SHOWN

10.5-A 3-1

FILE NAME: 10.5-A3-1_Bridge Railing Type BP Steel Details 1 of 2.dgn				REGION NO. 10	STATE WASH		STANDARD DESIGN DRAWINGS BRIDGE RAILINGS	PLAN REF NO.
BRIDGE DES. ENG.				JOB NUMBER				SHEET
BRIDGE PROJ. ENG.				CONTRACT NO.		PRELIMINARY PLAN NOT FOR CONSTRUCTION	BRIDGE RAILING TYPE S-BP-22 DETAILS 1 OF 2	OF
SUPERVISOR				SEE CERTIFICATION SHEET DATE	SEE CERTIFICATION SHEET DATE			SHEETS
DESIGNED BY				STAMP BOX	STAMP BOX			
CHECKED BY				PLOT DATE: 07-Oct-2025 PLOT TIME: 1:40:52 PM PLOTTED BY: deboejak FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Standards/Standard Drawings and Details/Barriers and Railings/Bridge Railings_Pedestrian and BP/_DGN/10.5-A3-1_Bridge Railing Type BP Steel Details 1 of 2.dgn				
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