PART	MATERIAL SPECIFICATION				NOTE 2	
RILAS & BALUSTERS	ASTM A53 GRADE B OR ASTM A500 GRADE C SCHEDULE 40 (STD. PIPE). GALVANIZED IN ACCORDANCE WITH AASHTO M 111.				NOTES  AILING SPLICES AND BOTTOM CHANNELS SHALL BE NTAL CURVE WHERE THE RADIUS OF CURVATURE IS	
WASHERS	ASTM A193 GRADE B7 GALVANIZED IN ACCORDANCE WITH AASHTO M 232.			LESS THAN 200'. 2. SHOP DRAWINGS OF R	RAILING SHALL BE SUBMITTED AS A TYPE 2 WORKIN OMPLETE DIMENSIONS AND DETAILS OF FABRICATIO	NG
PLATES/BAR CHANNELS	ASTM A36 GALVANIZED IN ACCORDANCE WITH AASHTO M 111			BE PROVIDED IN THE	RECTION DIAGRAM. MATERIAL SPECIFICATIONS SHAL SHOP DRAWINGS FOR ALL COMPONENTS.	
DRIVE PINS	ASTM A276 OR A240 TYPE 302 STAINLESS STEEL				ONE BY SAWING OR MILLING AND ALL CUTS SHALL I LAME CUTTING WILL NOT BE PERMITTED.	3E
ANCHOR BOLTS	STANDARD SPECIFICATION SECTION 9-06.5(4) GR. 36				HALL CONFORM TO THE LATEST EDITION OF AWS DI	.1.
& WASHERS	(GALVANIZE IN ACCORDANCE WITH AASHTO SPECIFICATION M 232)			ADEQUATELY WRAPPE	ALUSTERS AND PIPE RAILING SPLICES SHALL BE ED TO INSURE SURFACE PROTECTION DURING SPORTATION TO THE JOB SITE.	
NUTS	TAMPER-PROOF TYPE ZINC ALLOY SEE SPECIAL PROVISIONS SECTION 6-06.2					
Last revised on: 11/19/2019  O LEEH ON Bridge Design Engr.	END SECTION VARIES  RESIN BONDED ANCHORS OR ANCHOR BOLTS  BEND BEFORE GALVANIZING  RESIN BONDED B' MAX. (DIVIDED EQUALLY)  ANCHOR SPA. B''  BEND BEFORE GALVANIZING  R = 7½"  SEE DETAIL 1	ANCHOR SPA. @ 1'-4" MAX.  RESIN BONDED ANCHORS A PARALLEL TO G NORMAL TO G NORMAL TO G AT CURB LINE  ELEVATION BALUSTER ATTACHMENT DETAILS NOT SHOWN		TOP OF TRAF. BARRIER—	2½"Ø STD. PIPE RAILING  34"Ø STD. PIPE BALUSTER  C 4 x 5.4  SECTION A	
Supervisor Designed By Checked By Detailed By	M:\STANDARDS\BP Rails\10.5-A7-1 BRIDGE R	REGION STATE FED. AID PROJ. NO. SHEET TOTAL NO. SHEETS  10 WASH.	BRIDGE AND STRUCTURES  Washin	ngton State Iment of Transportation	STANDARD RAILINGS	
Bridge Projects Engr. Prelim. Plan By Architect/Specialist	DATE REVISION BY A	JOB NUMBER PD	OFFICE	on or realisportation	BRIDGE RAILING TYPE S-BP-12 DETAILS 1 OF 2	

Architect/Specialist

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