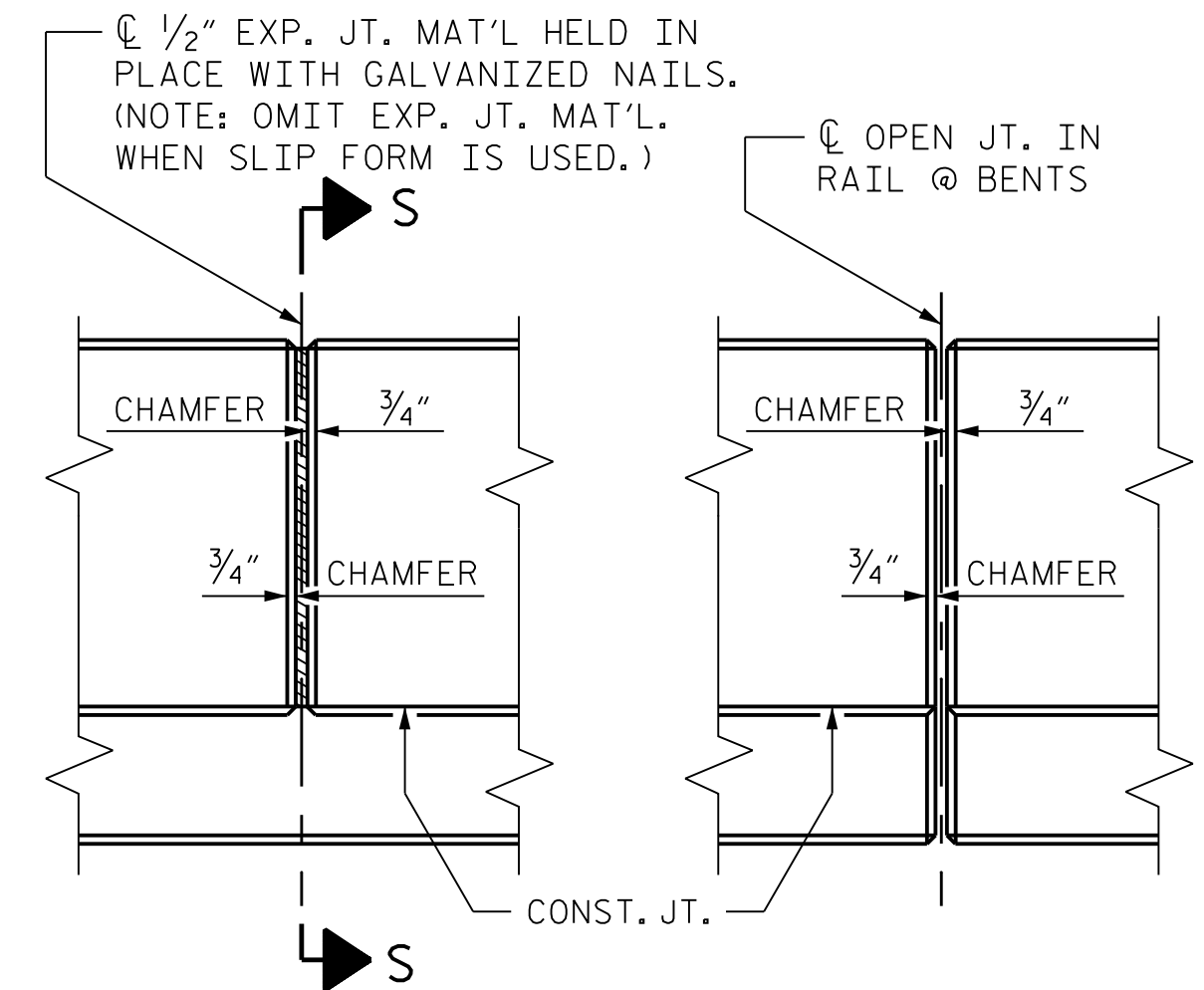


PLAN
RAIL DETAILS AT EXPANSION JOINTS



ELEVATION AT EXPANSION JOINTS

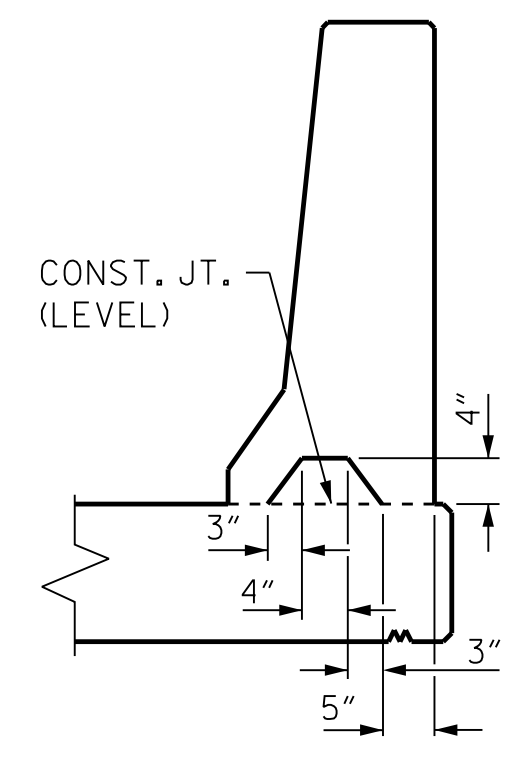
NOTES

THE BARRIER RAIL IN EACH UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

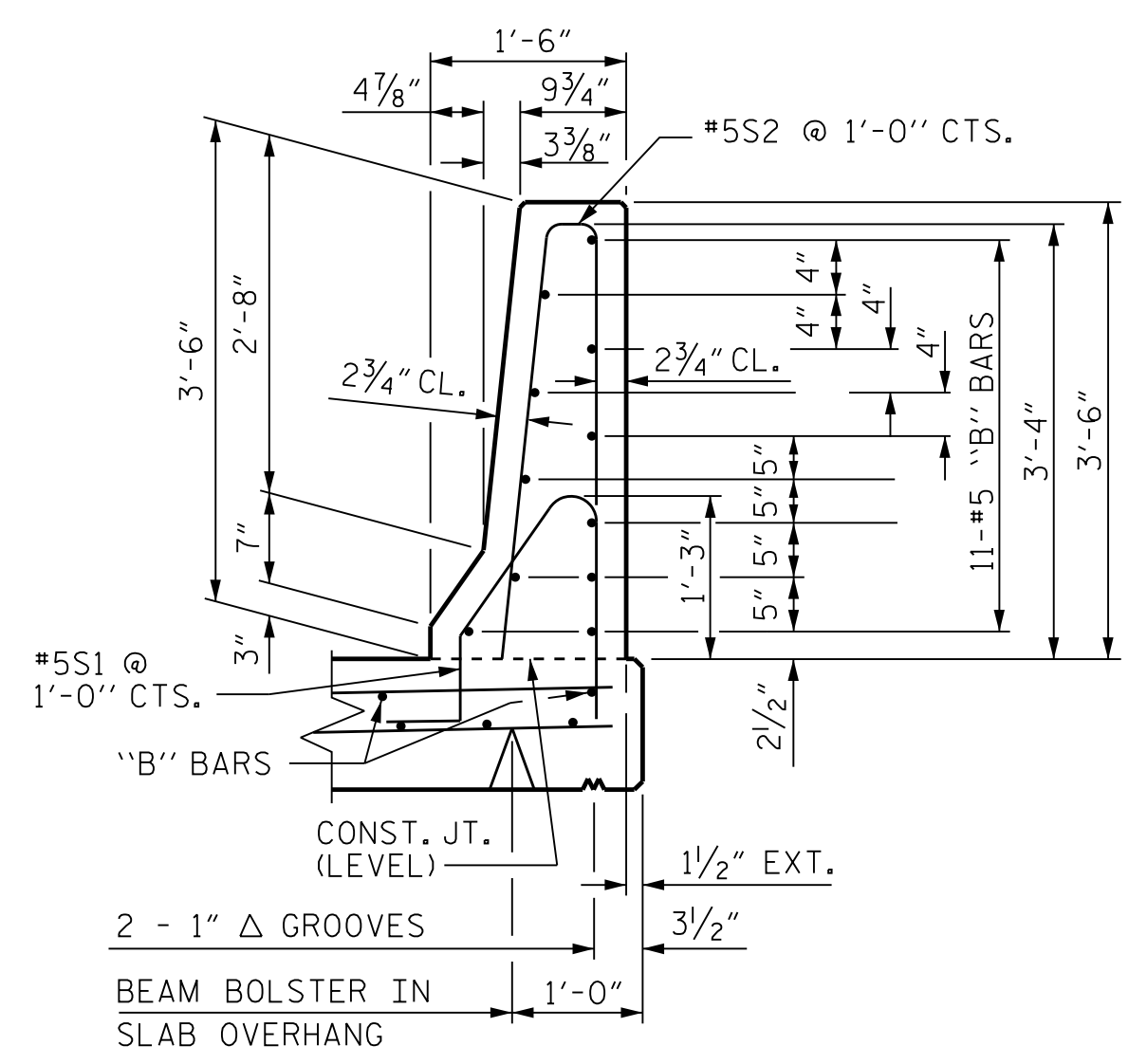
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

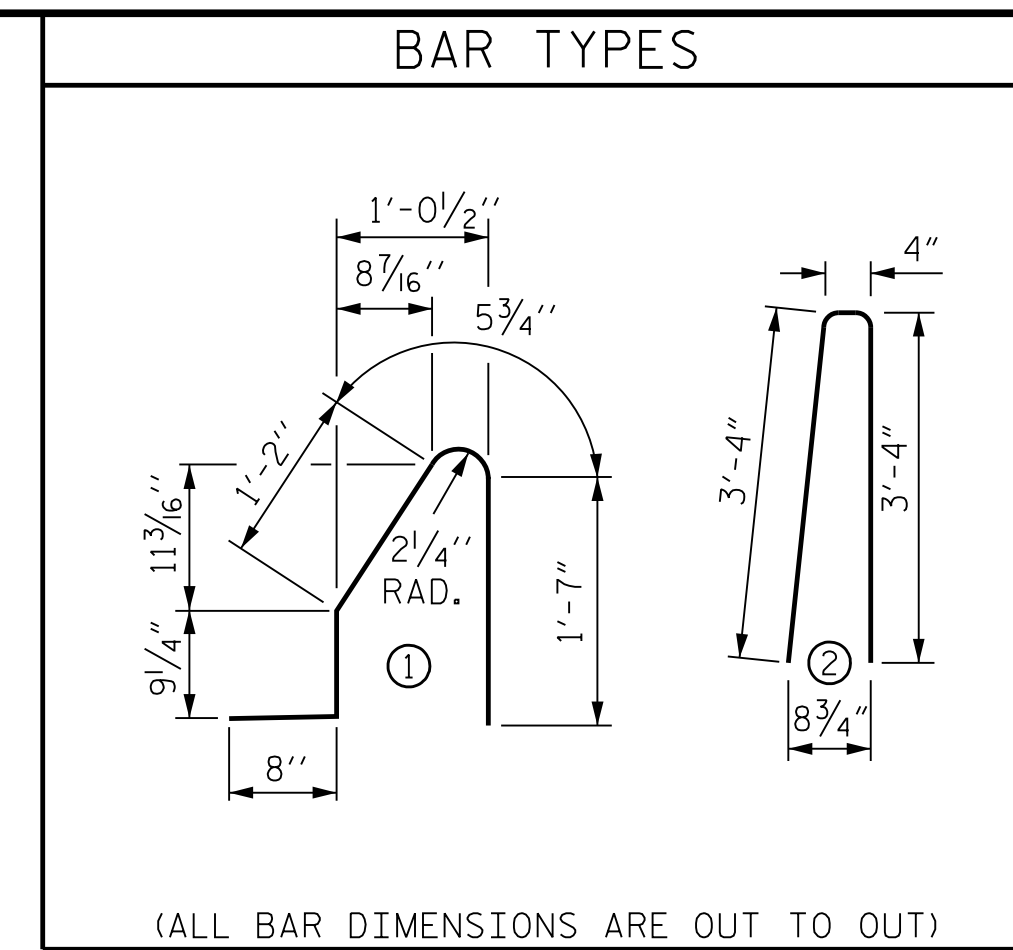
SEE "BRIDGE APPROACH SLAB" SHEETS FOR BARRIER RAIL CONSTRUCTED ON APPROACH SLABS AND END OF RAIL DETAILS.



SECTION S-S
AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)



SECTION THROUGH RAIL
BARRIER RAIL DETAILS



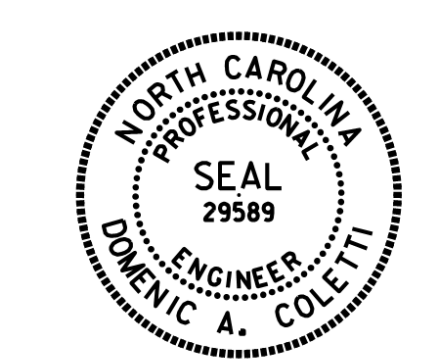
BILL OF MATERIAL					
FOR CONCRETE BARRIER RAIL ON BRIDGE DECK ONLY					
UNIT 1					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
*B1	11	#5 STR	25'-3"	290	
*B2	11	#5 STR	26'-1"	300	
*B3	11	#5 STR	25'-9"	296	
*B4	11	#5 STR	27'-5"	315	
*B26	88	#5 STR	25'-7"	2,349	
*B27	319	#5 STR	26'-7"	8,845	
*B28	297	#5 STR	27'-7"	8,545	
*B29	66	#5 STR	28'-7"	1,968	
*B30	77	#5 STR	29'-7"	2,376	
*S1	2,239	#5	1	4'-8"	10,898
*S2	2,239	#5	2	7'-0"	16,347

*EPOXY COATED REINFORCING STEEL 52,529 LBS.
CLASS AA CONCRETE 304.1 CU. YDS.
CONCRETE BARRIER RAIL 2,237.9 LIN. FT.

UNIT 2					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
*B5	11	#5 STR	27'-5"	315	
*B6	11	#5 STR	24'-11"	286	
*B7	11	#5 STR	28'-9"	330	
*B8	11	#5 STR	24'-7"	283	
*B26	33	#5 STR	25'-7"	881	
*B27	99	#5 STR	26'-7"	2,745	
*B28	55	#5 STR	27'-7"	1,583	
*B29	143	#5 STR	28'-7"	4,264	
*B30	88	#5 STR	29'-7"	2,716	

*EPOXY COATED REINFORCING STEEL 27,848 LBS.
CLASS AA CONCRETE 161.2 CU. YDS.
CONCRETE BARRIER RAIL 1,185.8 LIN. FT.

PROJECT NO. U-2579AB
FORSYTH COUNTY
STATION: 58+33.94 -Y15FLYCA-



Dominic A. Coletti 10/15/2021

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

**SUPERSTRUCTURE
CONCRETE BARRIER
RAIL DETAILS**

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1	--	--	3	--	--
2	--	--	4	--	--

SHEET NO. 506-073
TOTAL SHEETS 129



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT... PENTABLE: NCDOT... USER: PPETERSO... DATE: 10/14/2021... FILE: ... \SUPERS

DES BY: L. ZAMPETTI	DATE: 07/19	DWG BY: M. SELLS	DATE: 07/19
DES CHK: J. ROBERTS	DATE: 08/19	CHK BY: S. NIFONG	DATE: 12/19