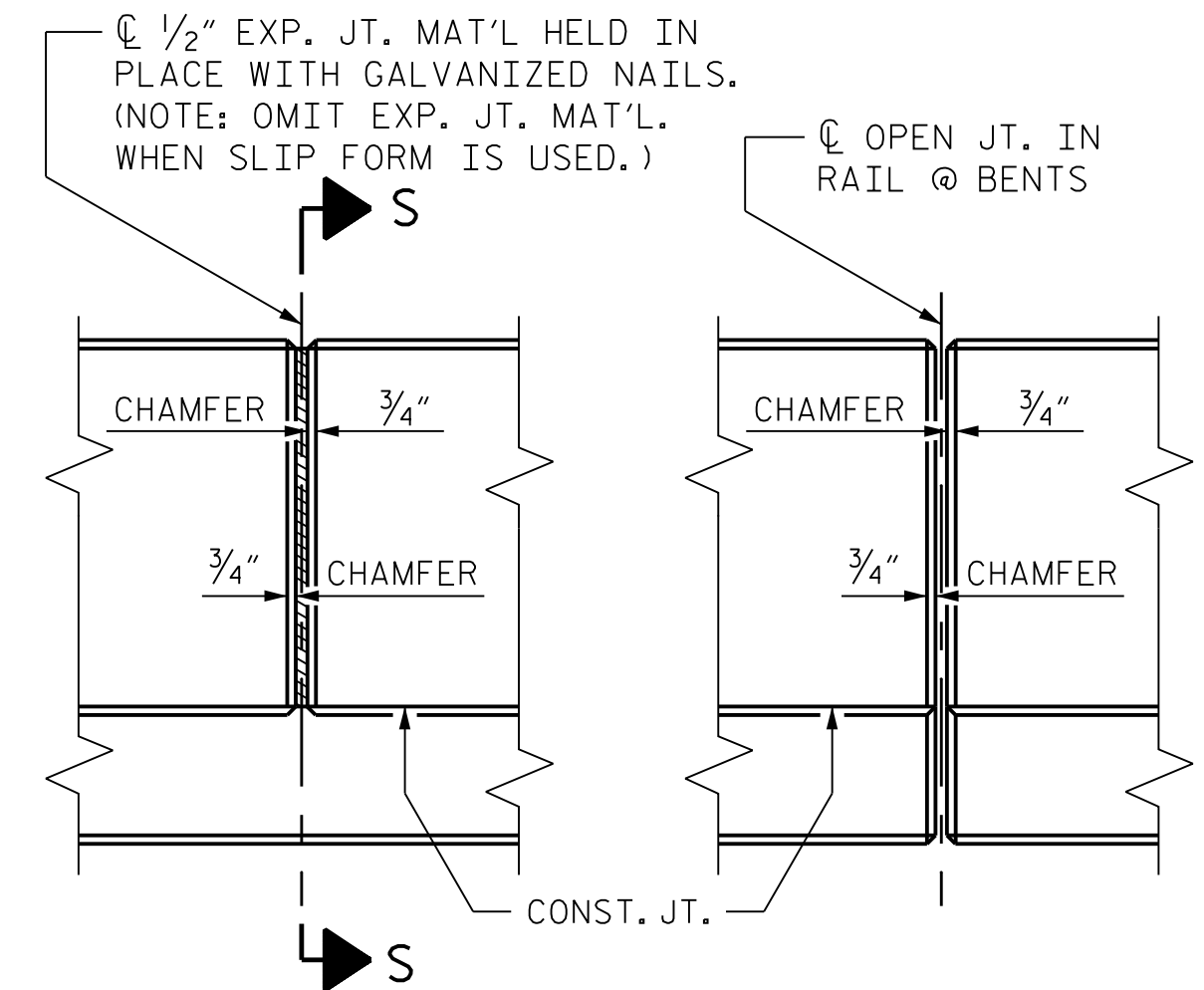


PLAN
RAIL DETAILS AT EXPANSION JOINTS



ELEVATION AT EXPANSION JOINTS

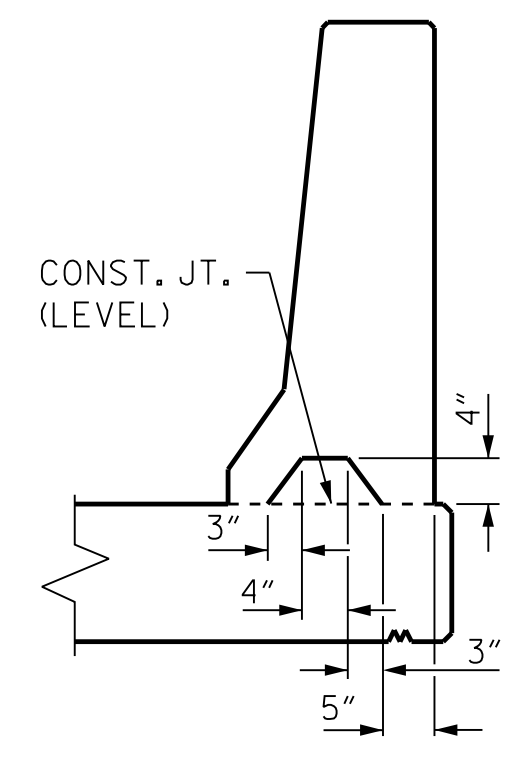
NOTES

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.

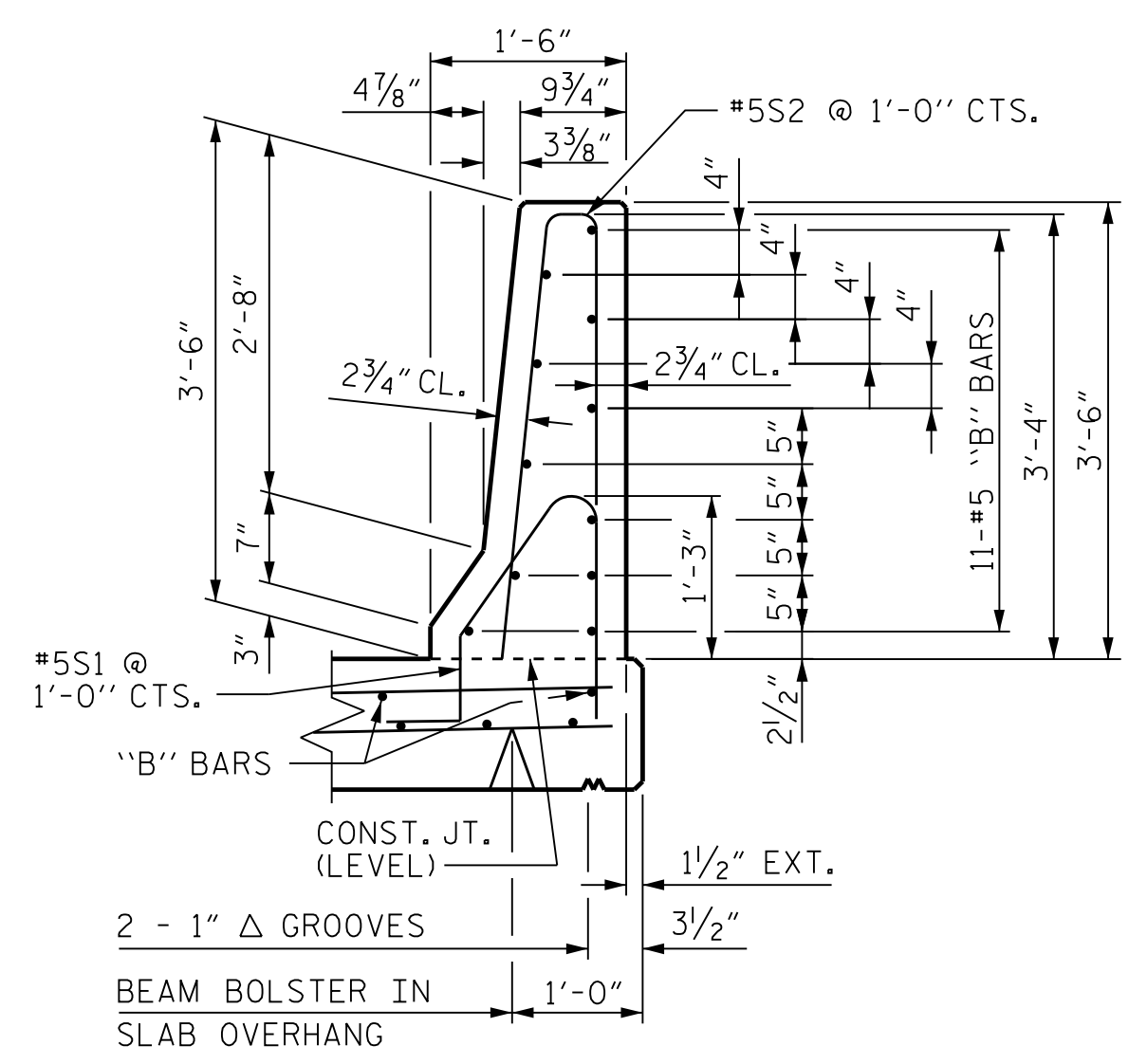
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

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.

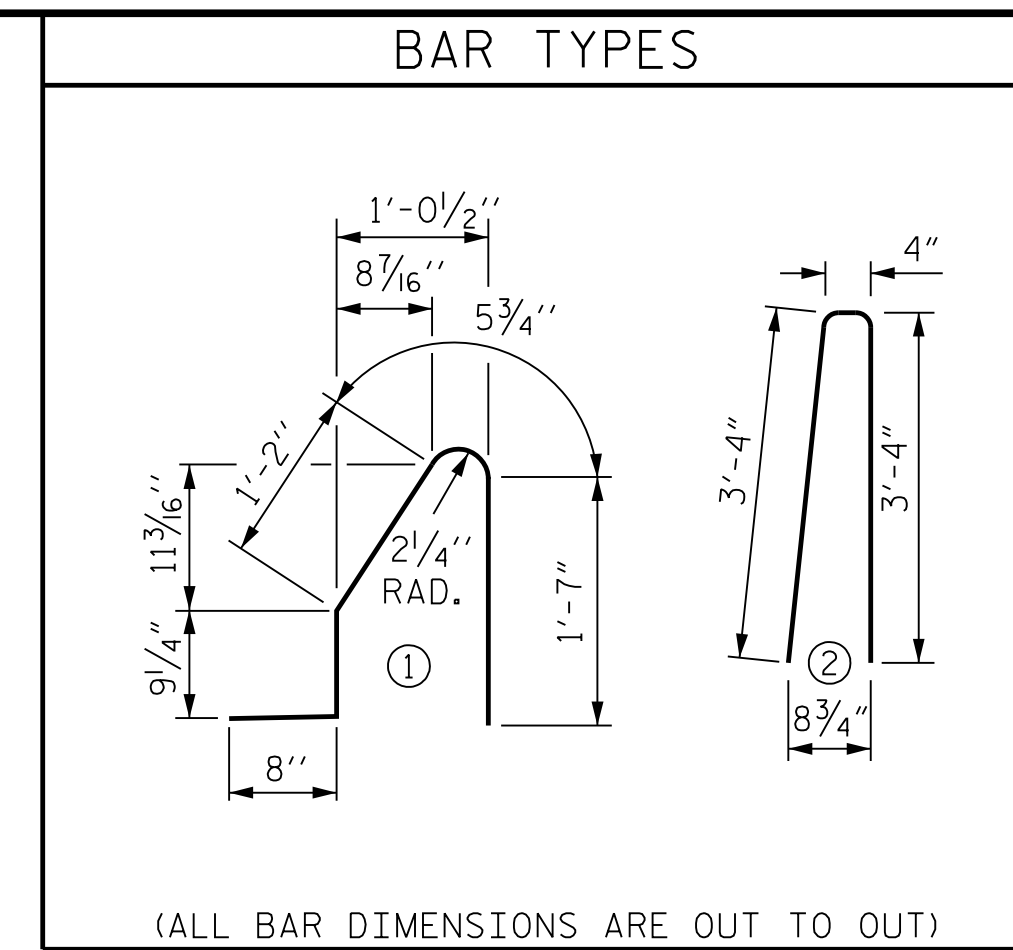
SEE "BRIDGE APPROACH SLAB" SHEETS FOR BARRIER RAIL CONSTRUCTED ON APPROACH SLABS AND END OF RAIL DETAILS.



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	27'-8"	318
*B2	11	# 5	STR	28'-7"	328
*B3	11	# 5	STR	27'-3"	313
*B4	11	# 5	STR	28'-10"	331
*B27	99	# 5	STR	26'-7"	2,745
*B28	231	# 5	STR	27'-7"	6,646
*B29	121	# 5	STR	28'-7"	3,608
*B30	11	# 5	STR	29'-7"	340
*S1	1,297	# 5	1	4'-8"	6,313
*S2	1,297	# 5	2	7'-0"	9,470
* EPOXY COATED REINFORCING STEEL					30,412 LBS.
CLASS AA CONCRETE					175.9 CU. YDS.
CONCRETE BARRIER RAIL					1,294.5 LIN. FT.
UNIT 2					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
*B5	11	# 5	STR	27'-8"	318
*B6	11	# 5	STR	24'-11"	286
*B7	11	# 5	STR	27'-4"	314
*B8	11	# 5	STR	20'-11"	240
*B26	88	# 5	STR	25'-7"	2,349
*B27	66	# 5	STR	26'-7"	1,830
*B28	121	# 5	STR	27'-7"	3,482
*B29	88	# 5	STR	28'-7"	2,624
*B30	44	# 5	STR	29'-7"	1,358
*S1	1,135	# 5	1	4'-8"	5,525
*S2	1,135	# 5	2	7'-0"	8,287
* EPOXY COATED REINFORCING STEEL					26,613 LBS.
CLASS AA CONCRETE					154.0 CU. YDS.
CONCRETE BARRIER RAIL					1,132.9 LIN. FT.

PROJECT NO. U-2579AB
FORSYTH COUNTY
 STATION: 47+63.62 -Y15FLYBD-



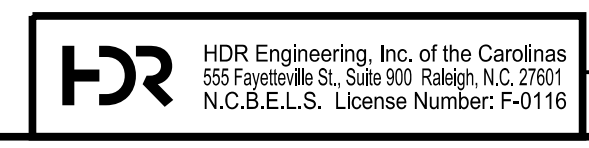
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUPERSTRUCTURE
 CONCRETE BARRIER
 RAIL DETAILS**

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

SHEET NO. S05-066
 TOTAL SHEETS 116

DES BY: <u>L. ZAMPETTI</u>	DATE: <u>07/19</u>	DWG BY: <u>M. SELLS</u>	DATE: <u>07/19</u>
DES CHK: <u>J. ROBERTS</u>	DATE: <u>07/19</u>	CHK BY: <u>S. NIFONG</u>	DATE: <u>11/19</u>



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT.pdf_color_eng-50.ppt
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