

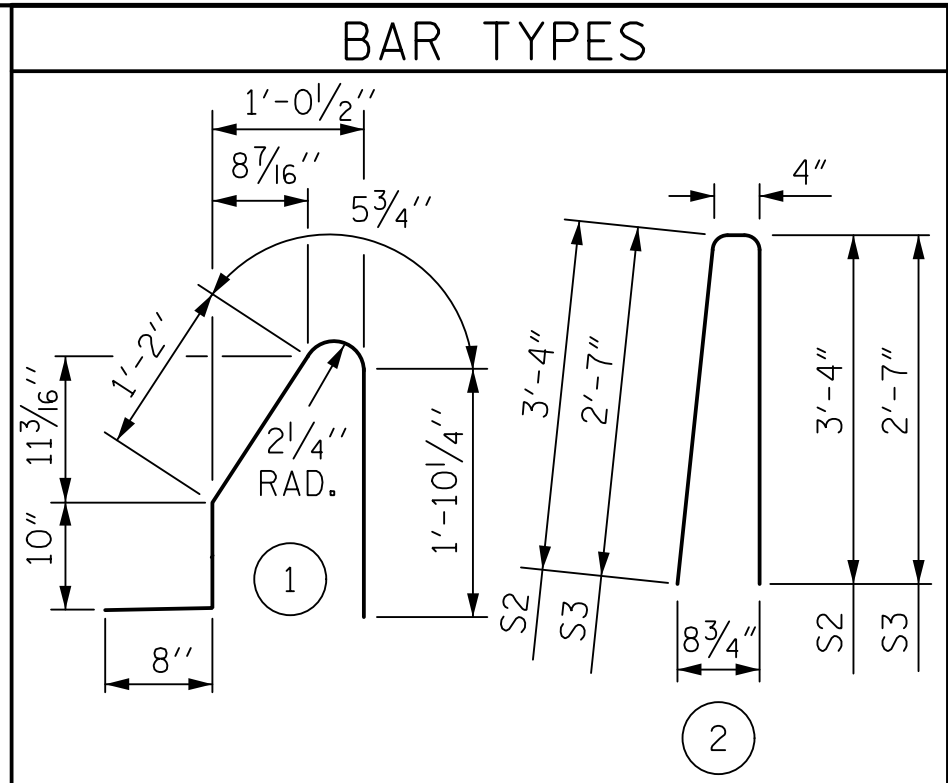
NOTES

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

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S1 AND #5 S2 MAY BE SHIFTED SLIGHTLY AS REQUIRED TO PROVIDE 2" MINIMUM CONCRETE COVER AT THE 1/2" EXPANSION JOINTS IN THE BARRIER RAIL.

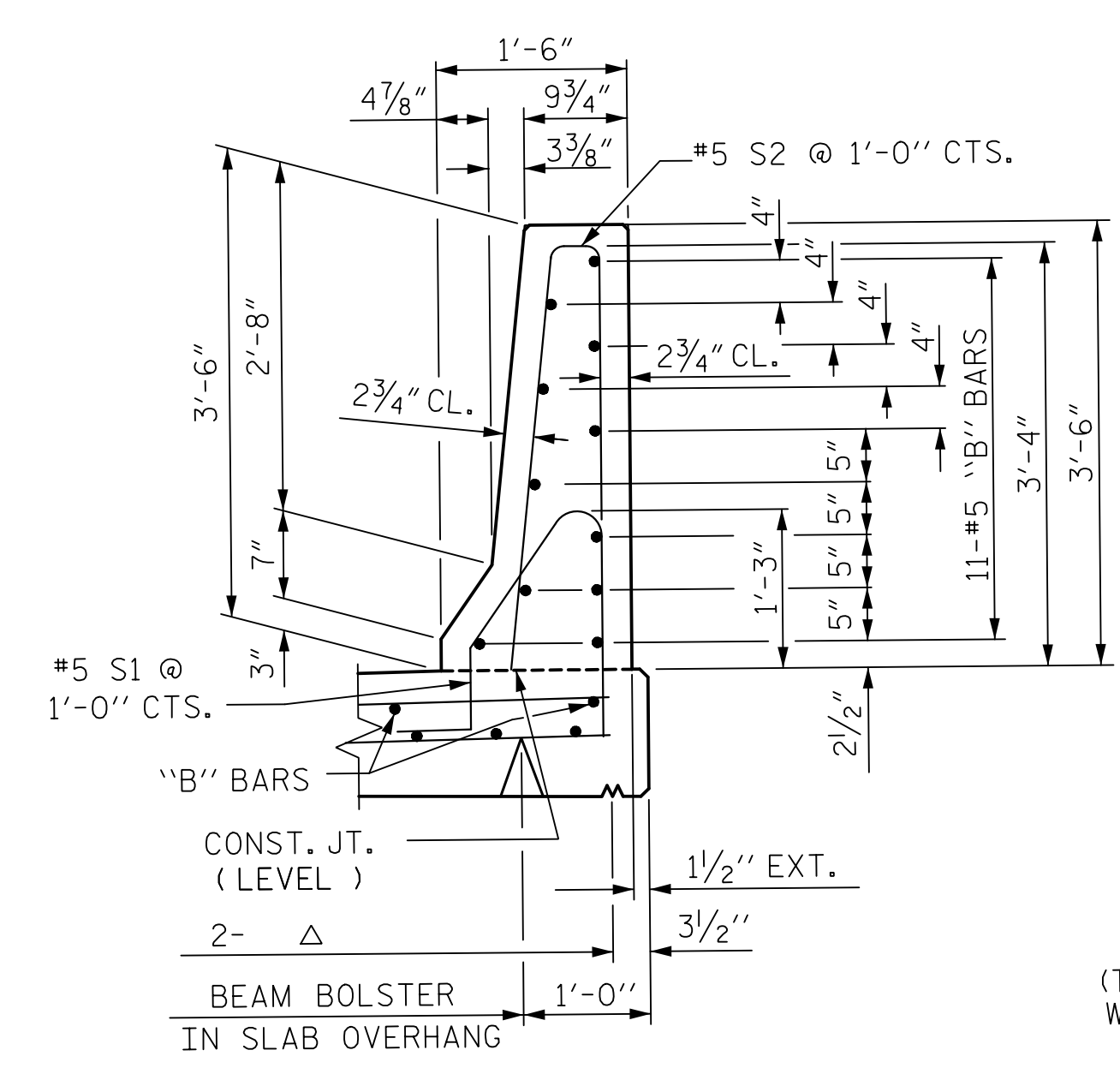
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS 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.



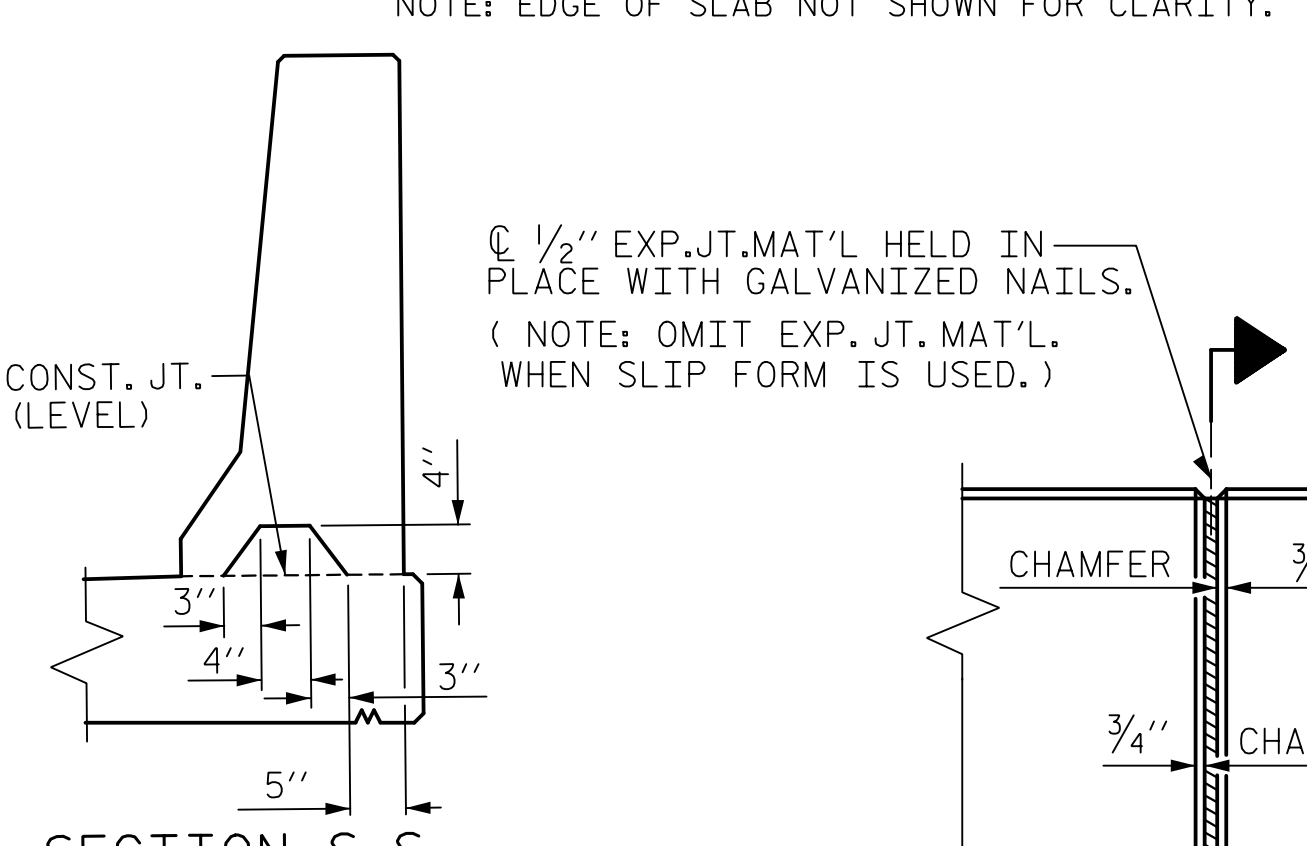
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL
FOR CONCRETE BARRIER RAIL ONLY

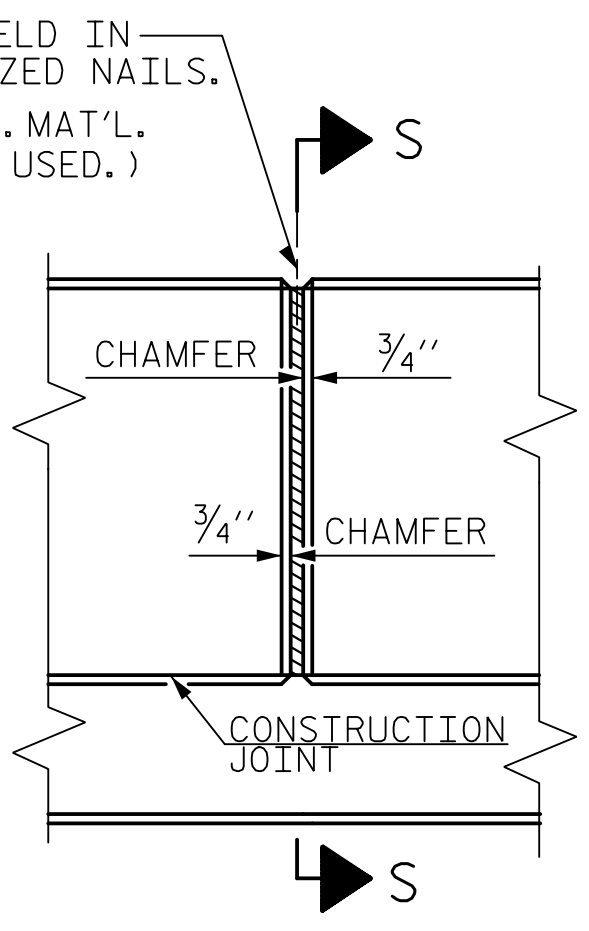
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	66	#5	STR.	23'-2"	1,595
* B2	44	#5	STR.	23'-5"	1,075
* S1	240	#5	1	4'-7"	1,147
* S2	232	#5	2	7'-0"	1,694
* S3	8	#5	2	5'-6"	46
* EPOXY COATED REINFORCING STEEL					5,557 LBS.
CLASS AA CONCRETE					32.3 CU. YDS.
CONCRETE BARRIER RAIL					237.7 LIN. FT.



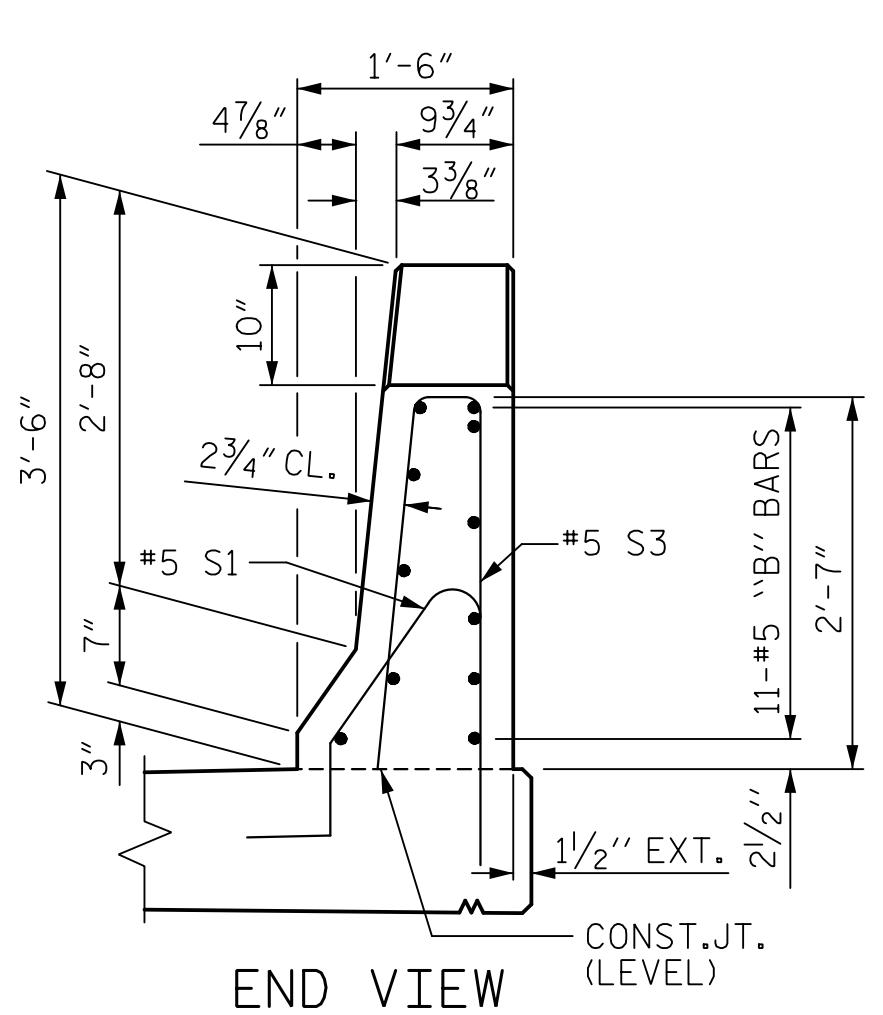
PLAN OF BARRIER RAIL
NOTE: EDGE OF SLAB NOT SHOWN FOR CLARITY.



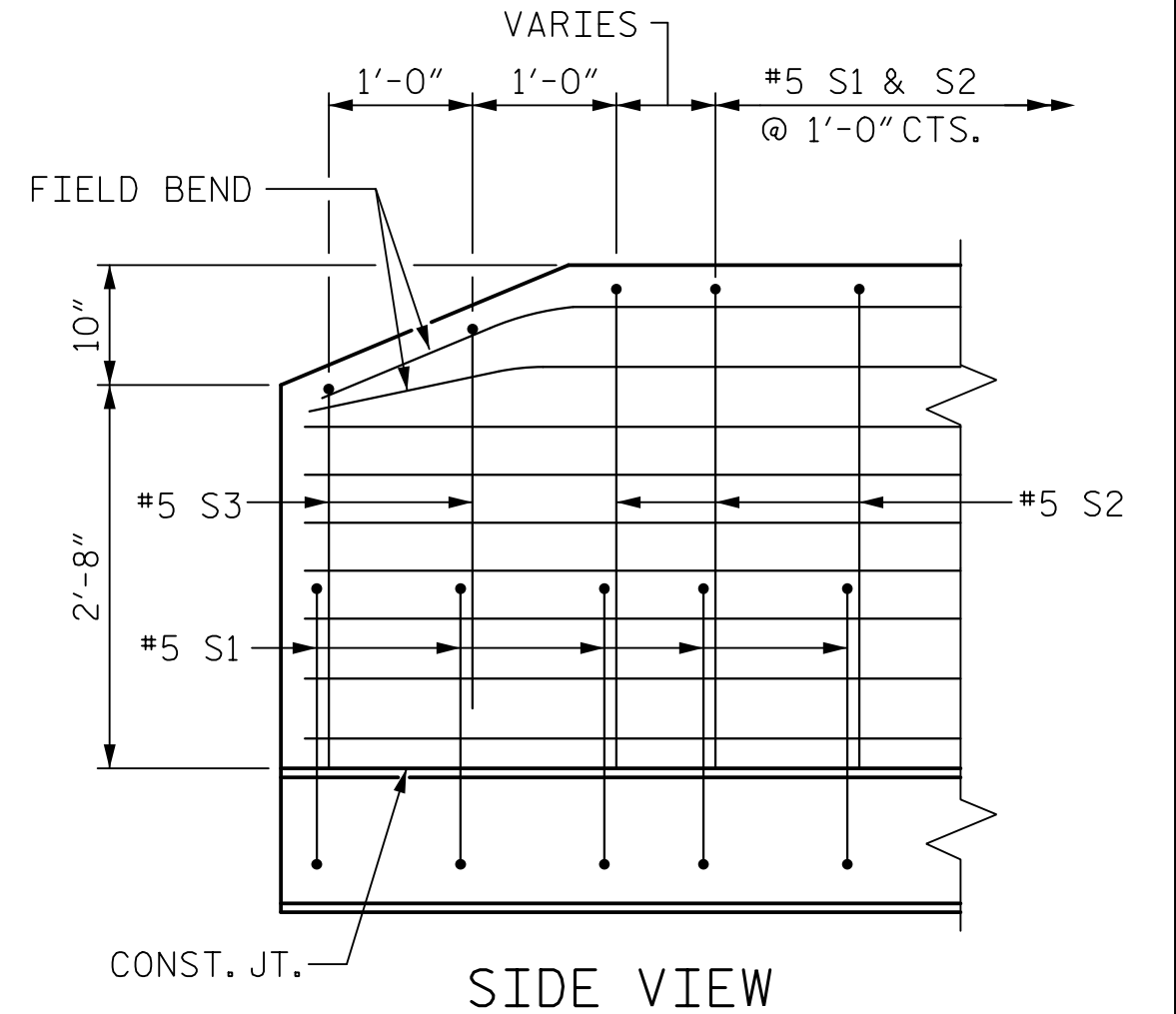
SECTION S-S
AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)



ELEVATION AT EXPANSION JOINTS

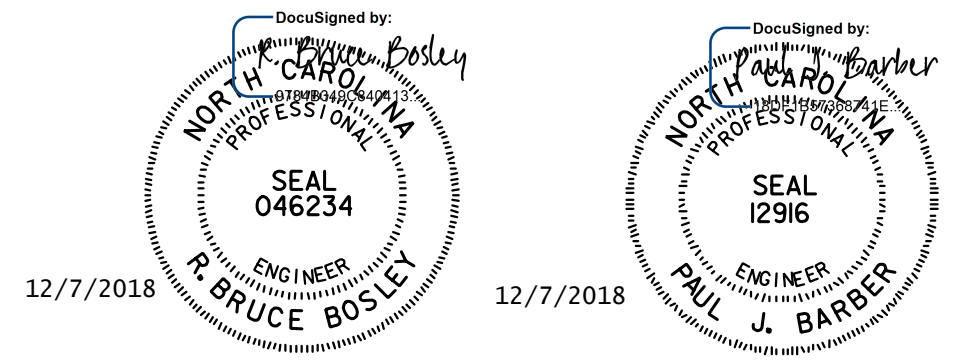


END OF RAIL DETAILS



SIDE VIEW

PROJECT NO. R-5021
BRUNSWICK COUNTY
STATION: 39+52.37 -Y14A-



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY : LLW	DATE : 3/18
CHECKED BY : JVE	DATE : 3/18
DRAWN BY : ARB 5/87	REV. 10/11/11
CHECKED BY : SJD 9/87	REV. 7/12
	REV. 6/13
MAA/GM	
MAA/GM	
MAA/GM	

HNTB	HNTB NORTH CAROLINA, P.C. NC License No. C-1554 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609
DRAWN BY : L. WATERS	DATE : 7/18
CHECKED BY : J. ELKINS	DATE : 7/18
DESIGN ENGINEER OF RECORD : B. BOSLEY	DATE : 12/18
DWG. NO. 14	

REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					TOTAL SHEETS
					24