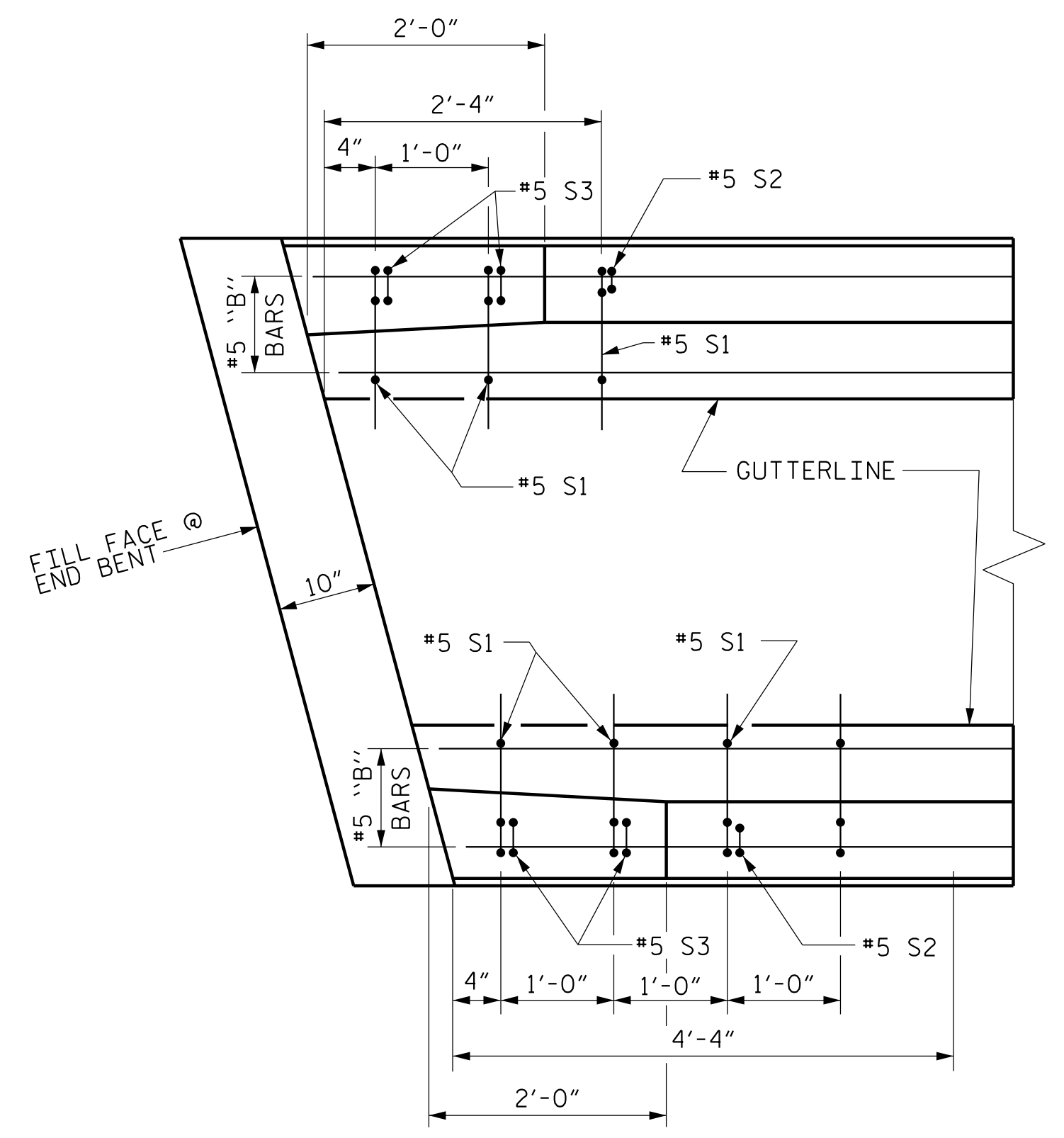


NOTES

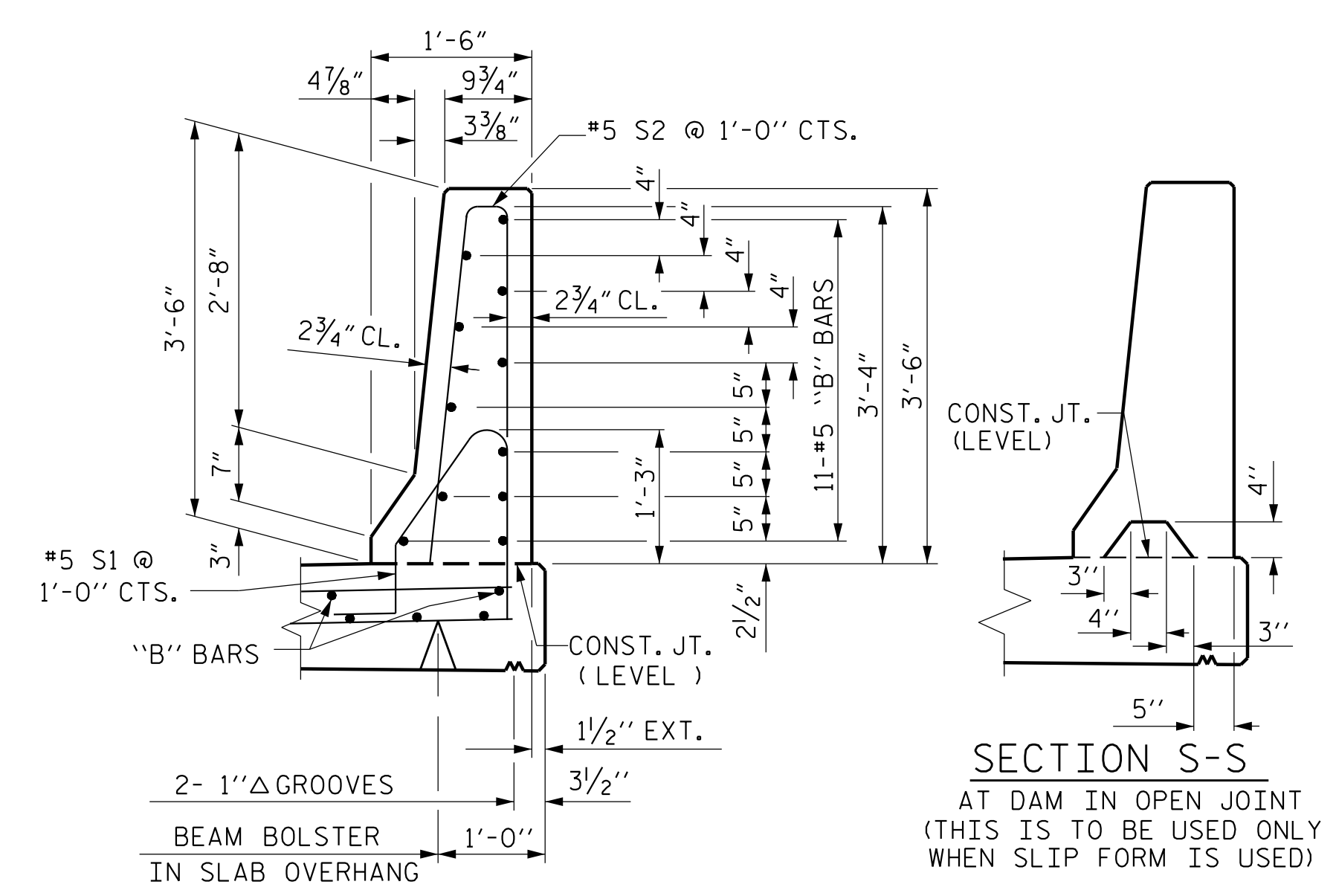
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

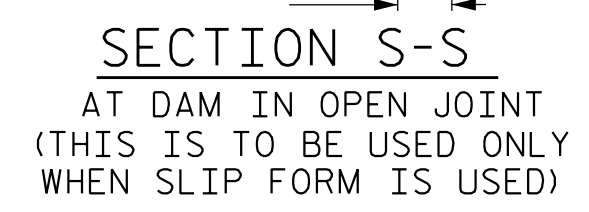
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS, THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS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



PLAN

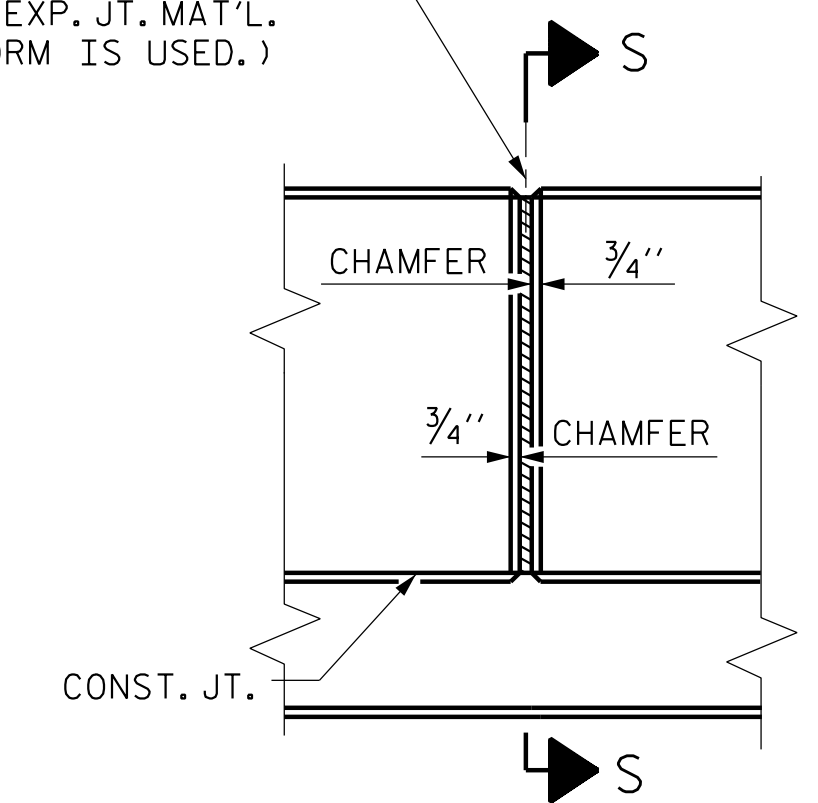


SECTION THRU RAIL

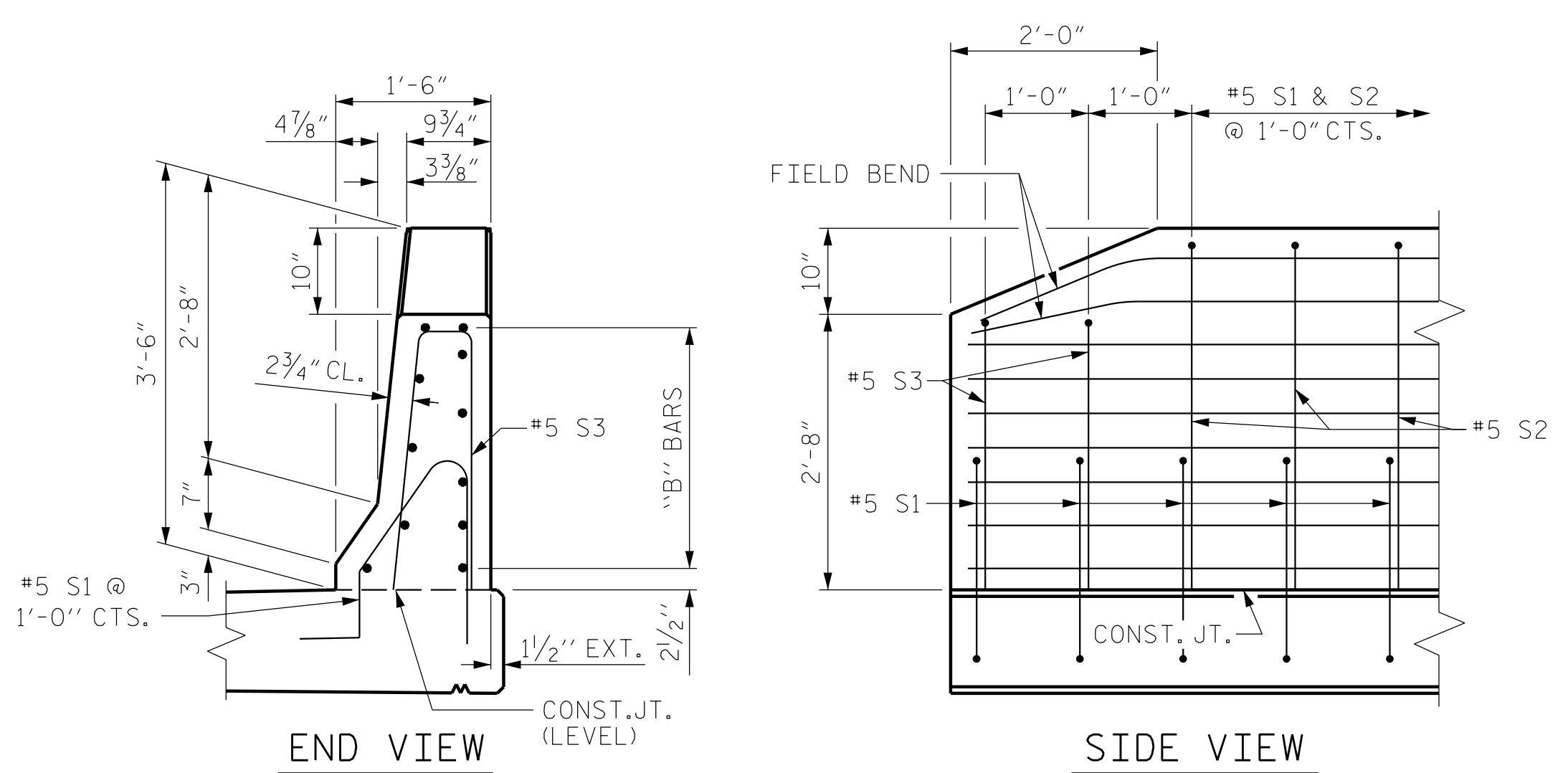


SECTION S-S AT DAM IN OPEN JOINT (THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

1/2" EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS. (NOTE: OMIT EXP. JT. MAT'L. WHEN SLIP FORM IS USED.)

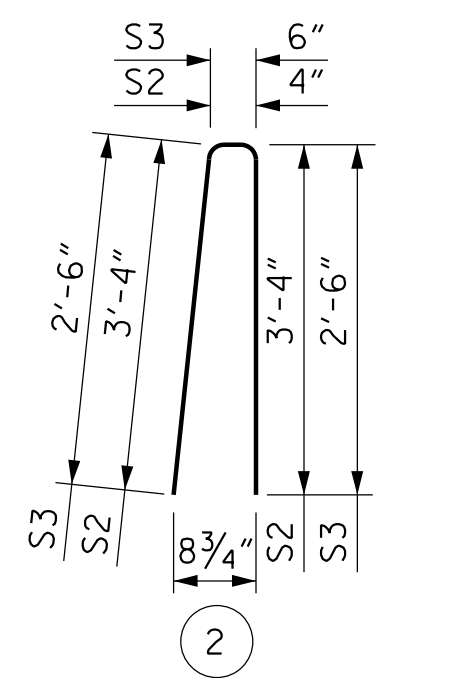
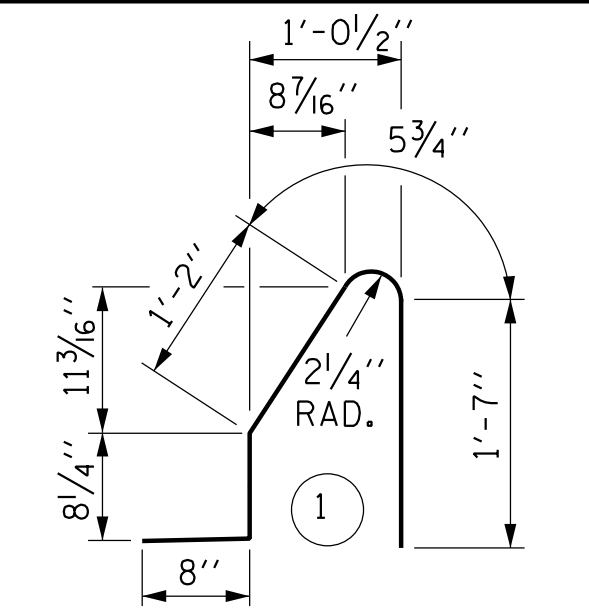


ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS



END OF RAIL DETAILS FOR ADHESIVE ANCHORING AT SAWED JOINTS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	88	#5	STR	27'-9"	2547
* B2	88	#5	STR	27'-8"	2539
* B3	66	#5	STR	28'-11"	1991
* B4	22	#5	STR	29'-0"	665
* S1	712	#5	1	4'-7"	3404
* S2	704	#5	2	7'-0"	5140
* S3	8	#5	2	5'-6"	46
* EPOXY COATED REINFORCING STEEL					16332 LBS.
CLASS AA CONCRETE				92.9 CU. YDS.	
CONCRETE BARRIER RAIL				684.33 LIN. FT.	

PROJECT NO. R-5819
COLUMBUS COUNTY
STATION: 40+06.72 -Y2- POT

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
CONCRETE
BARRIER RAIL

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

SHEET NO. S1-22
TOTAL SHEETS 38

PLANS PREPARED BY:

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NC License # F-1333
Formerly CALS Engineers & Consultants

THIS STANDARD DRAWING REVIEWED & ADOPTED FOR USE AT THE REFERENCED LOCATION BY THE UNDERSIGNED:



4/12/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY : W. B. ALLEN	DATE : 6/21
CHECKED BY : M. D. METZGER	DATE : 8/21
DRAWN BY : ARB 5/87	REV. 7/12 MAA/GM
CHECKED BY : SJD 9/87	REV. 6/13 MAA/GM
	REV. 12/17 MAA/THC

4/12/2022 10:25:22 AM C:\N\Project\2016\20160321\CLIENT\Structures\R-5819 -Y2-YR5819.SML.BR2.230422.dgn