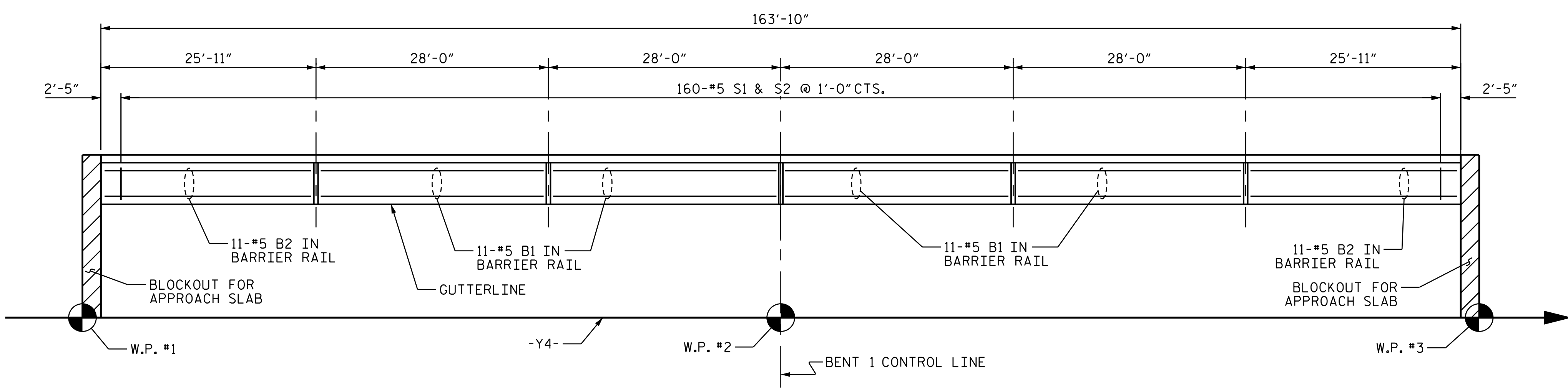
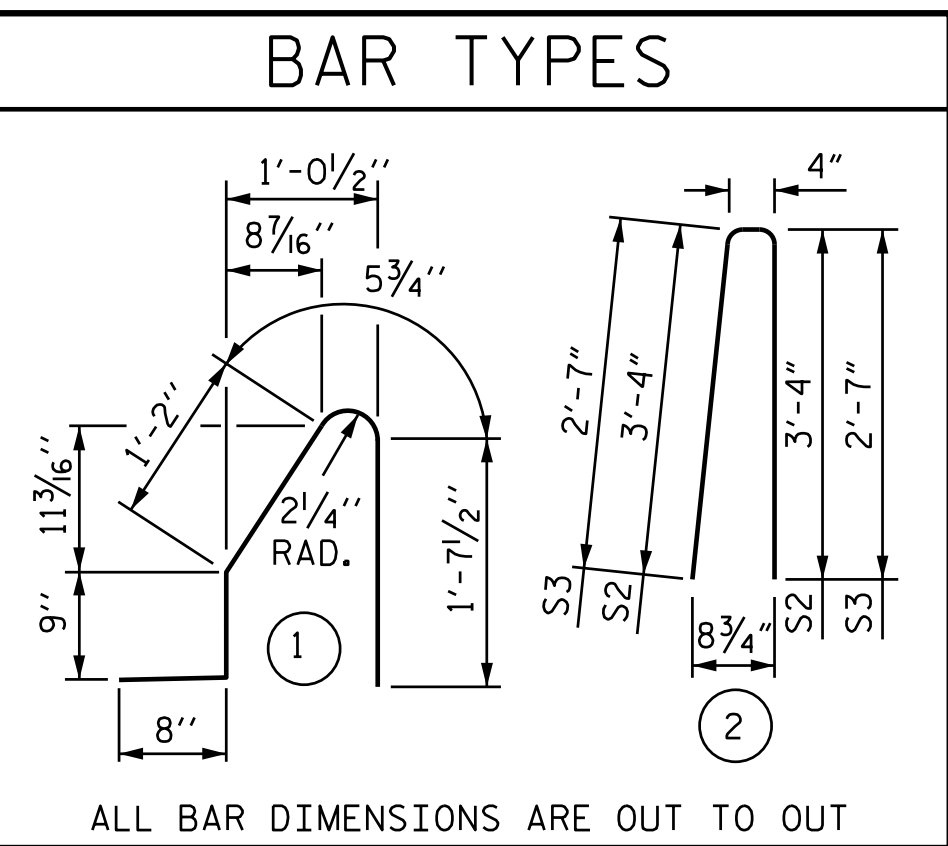


BILL OF MATERIAL					
FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	88	#5	STR	27'-7"	2532
* B2	44	#5	STR	25'-6"	1170
* S1	332	#5	1	4'-8"	1617
* S2	320	#5	2	7'-0"	2336
* S3	12	#5	2	5'-6"	69
* EPOXY COATED REINFORCING STEEL					7,724 LBS.
CLASS AA CONCRETE					44.5 CU. YDS.
CONCRETE BARRIER RAIL					327.66 LIN. FT.



**PLAN OF BARRIER RAIL**

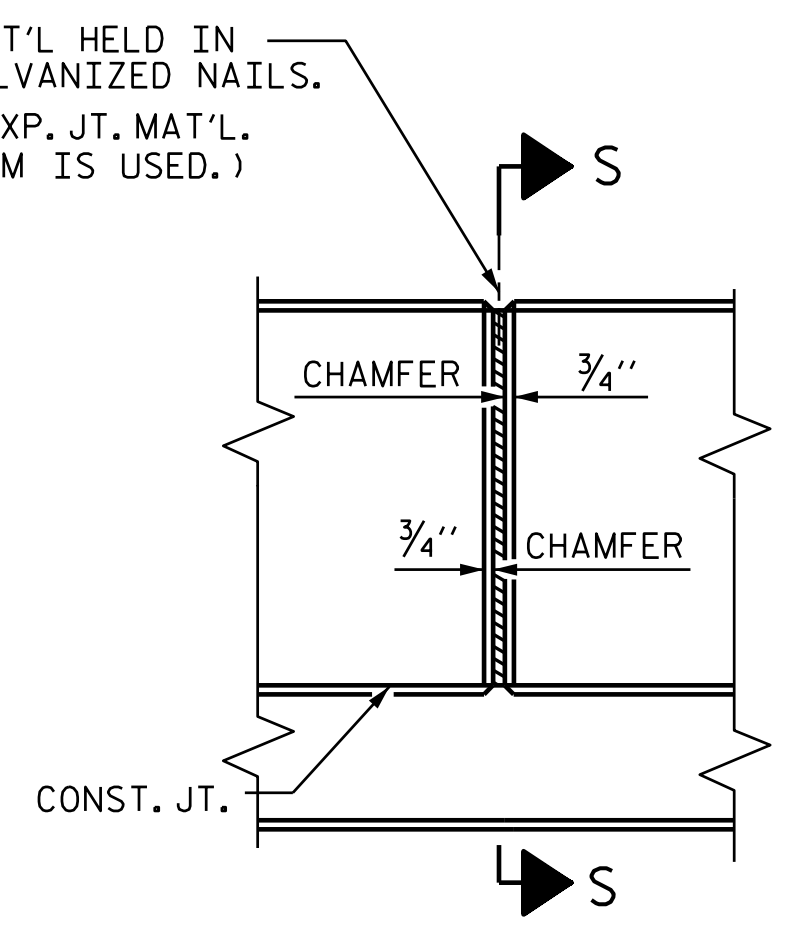
LEFT SIDE SHOWN, RIGHT SIDE SIMILAR

**NOTES**

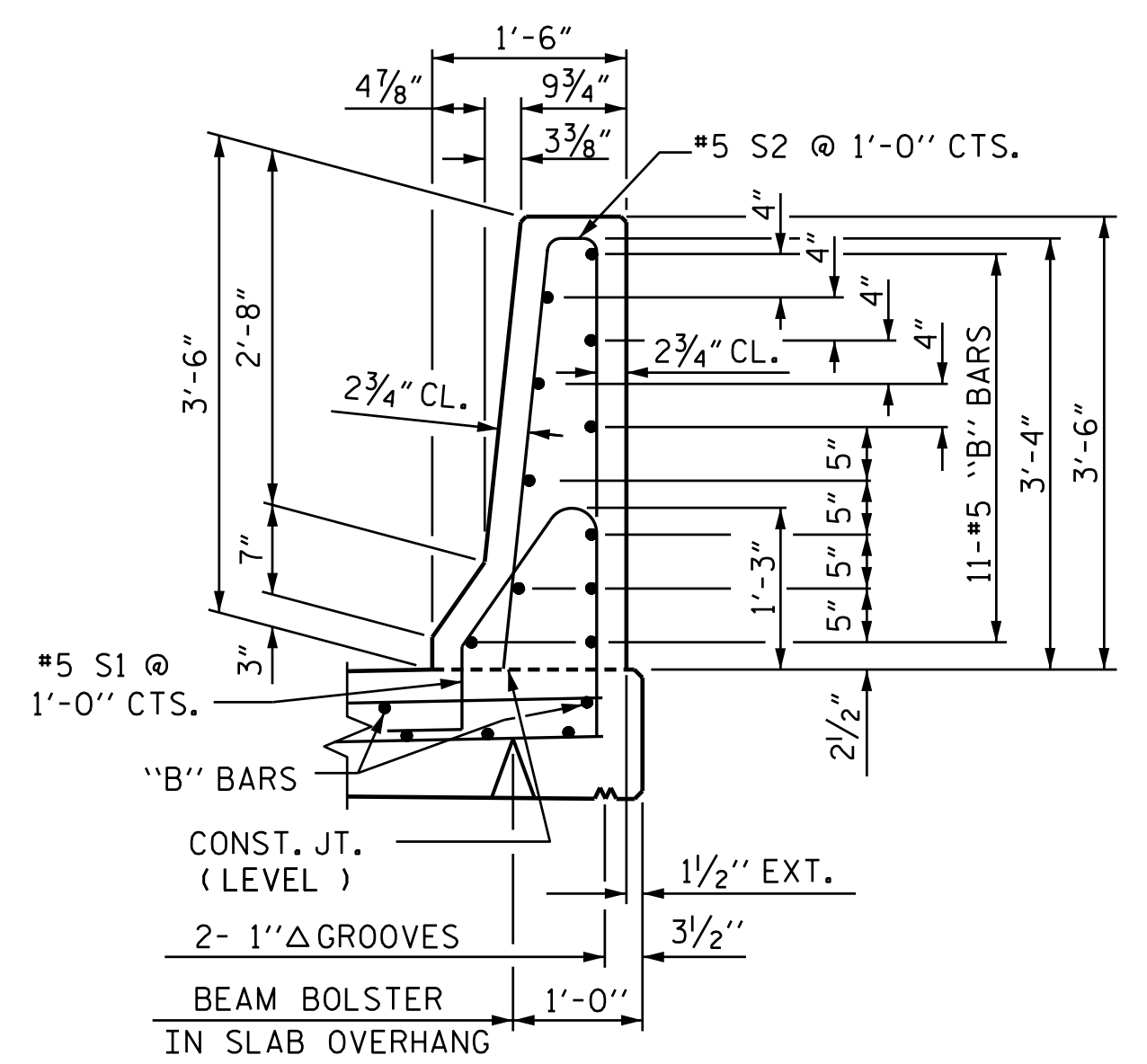
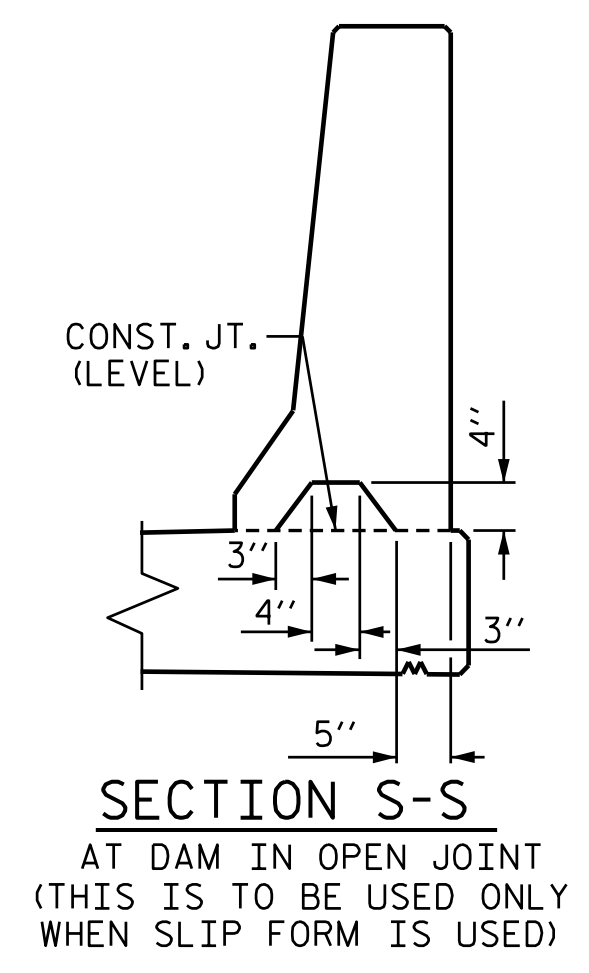
THE BARRIER RAIL SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

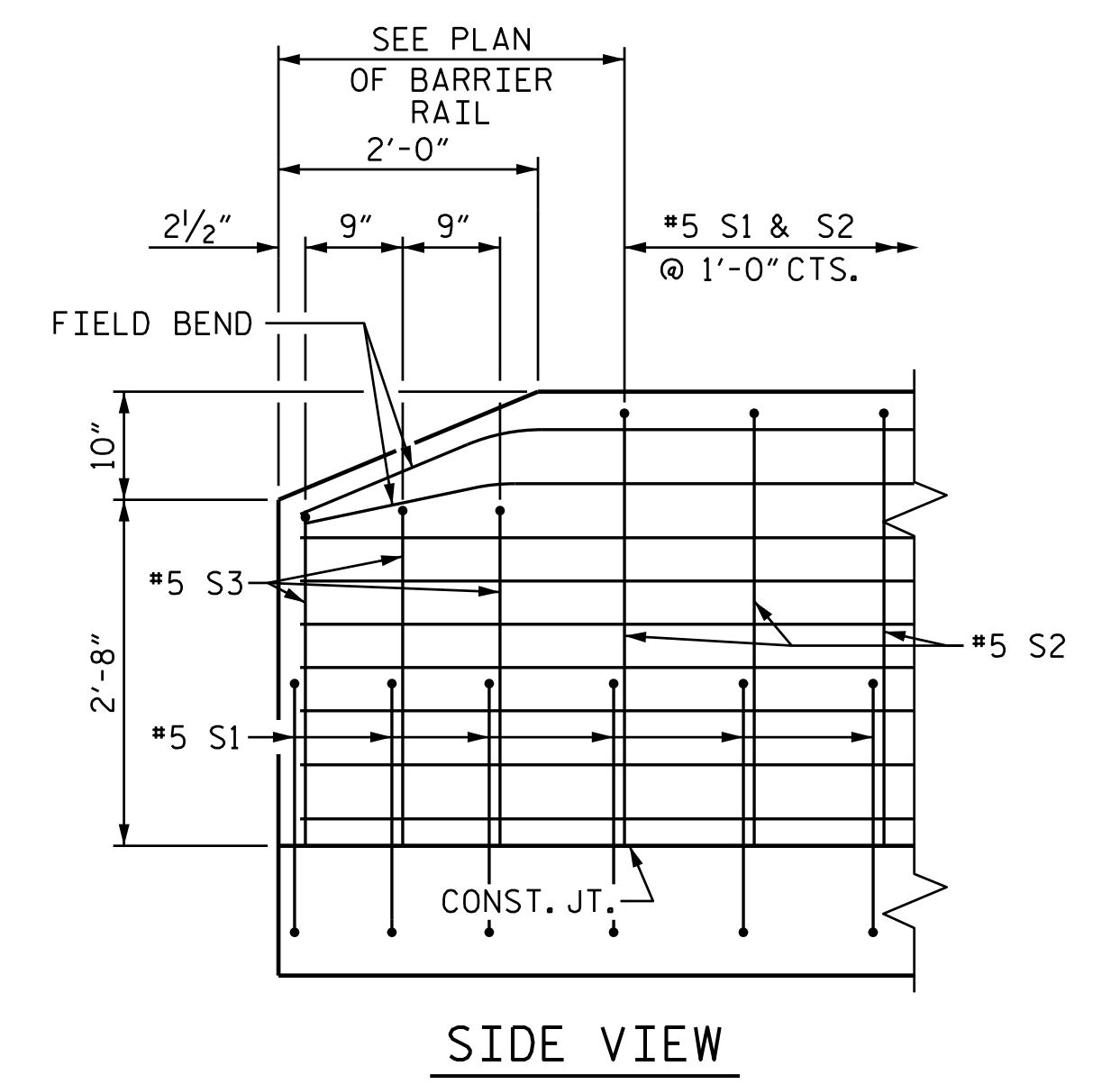
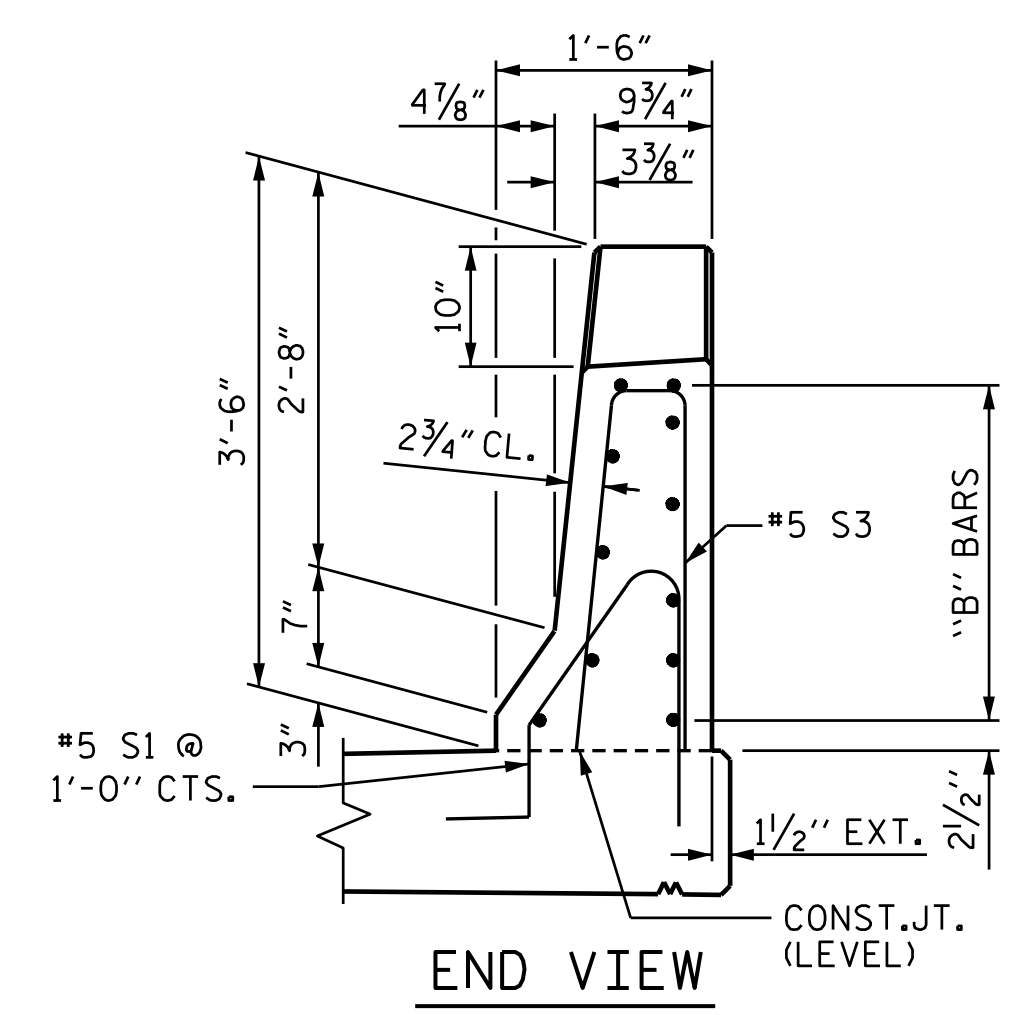
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS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



**ELEVATION AT EXPANSION JOINTS**



**BARRIER RAIL DETAILS**



**END OF RAIL DETAILS**

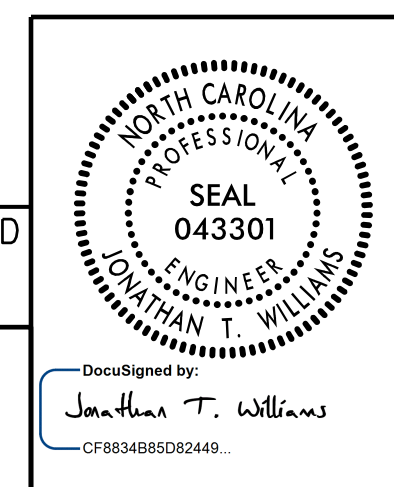
PROJECT NO. I-5987B  
ROBESON COUNTY  
 STATION: 24+76.86 -Y4-

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUPERSTRUCTURE  
**CONCRETE BARRIER RAIL**

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

SHEET NO. S4-16  
 TOTAL SHEETS 29



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:  
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 www.mottmac.com  
 LICENSE NO. F-0669

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DRAWN BY: R. L. DICKE DATE: 6-2021  
 CHECKED BY: J. M. ROBINSON DATE: 8-2021  
 DESIGN ENGINEER OF RECORD: J. T. WILLIAMS DATE: 8-2021