

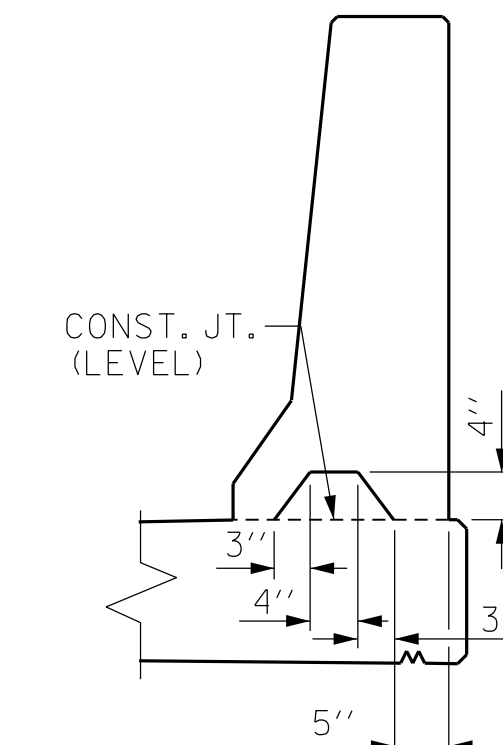
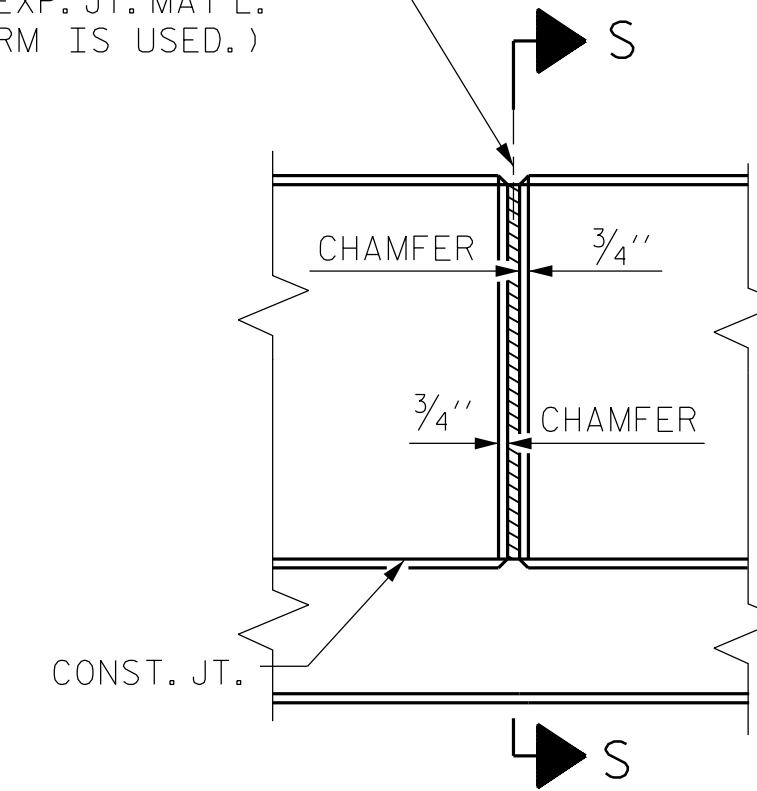
NOTES

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.

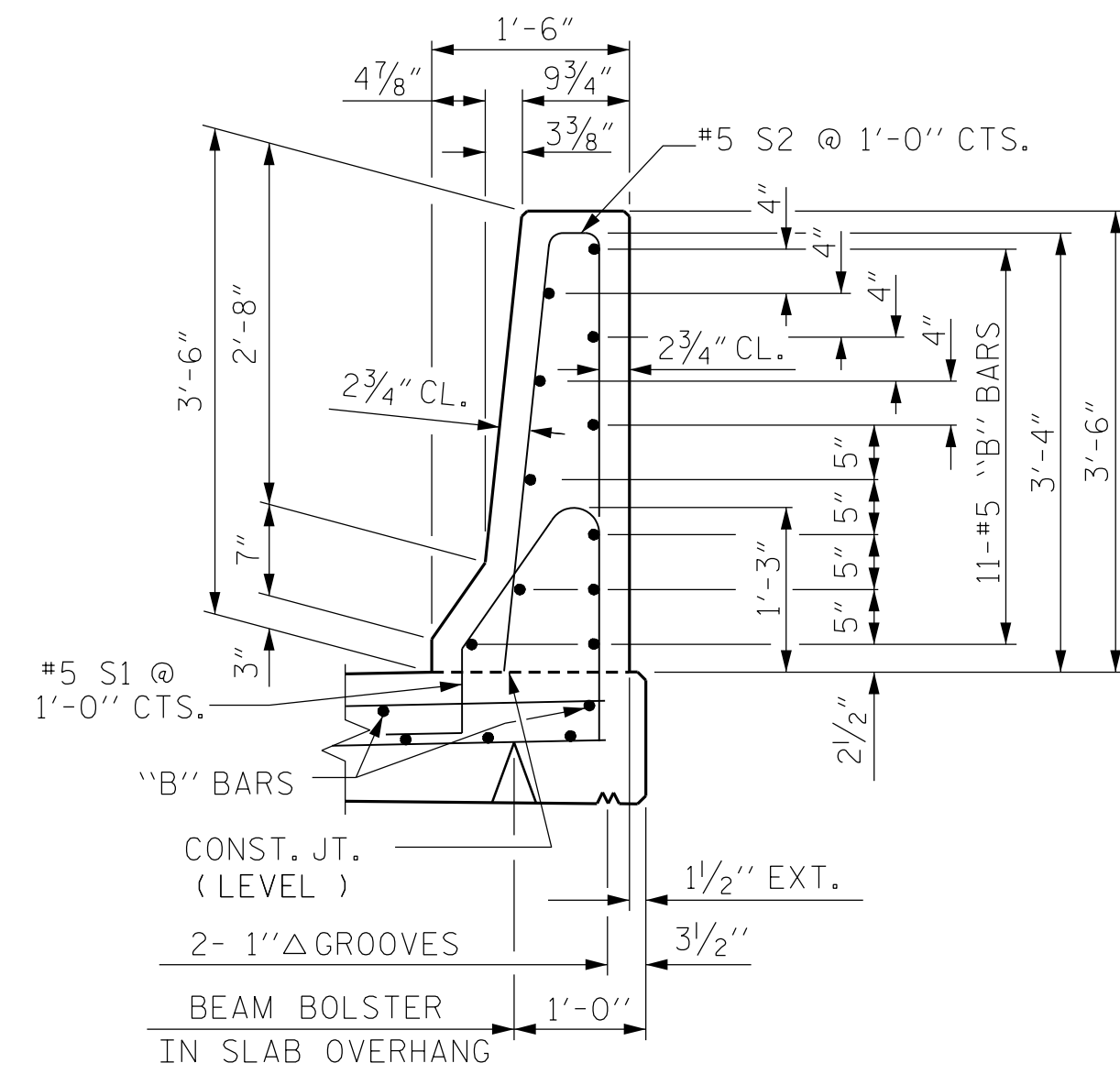
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS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

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

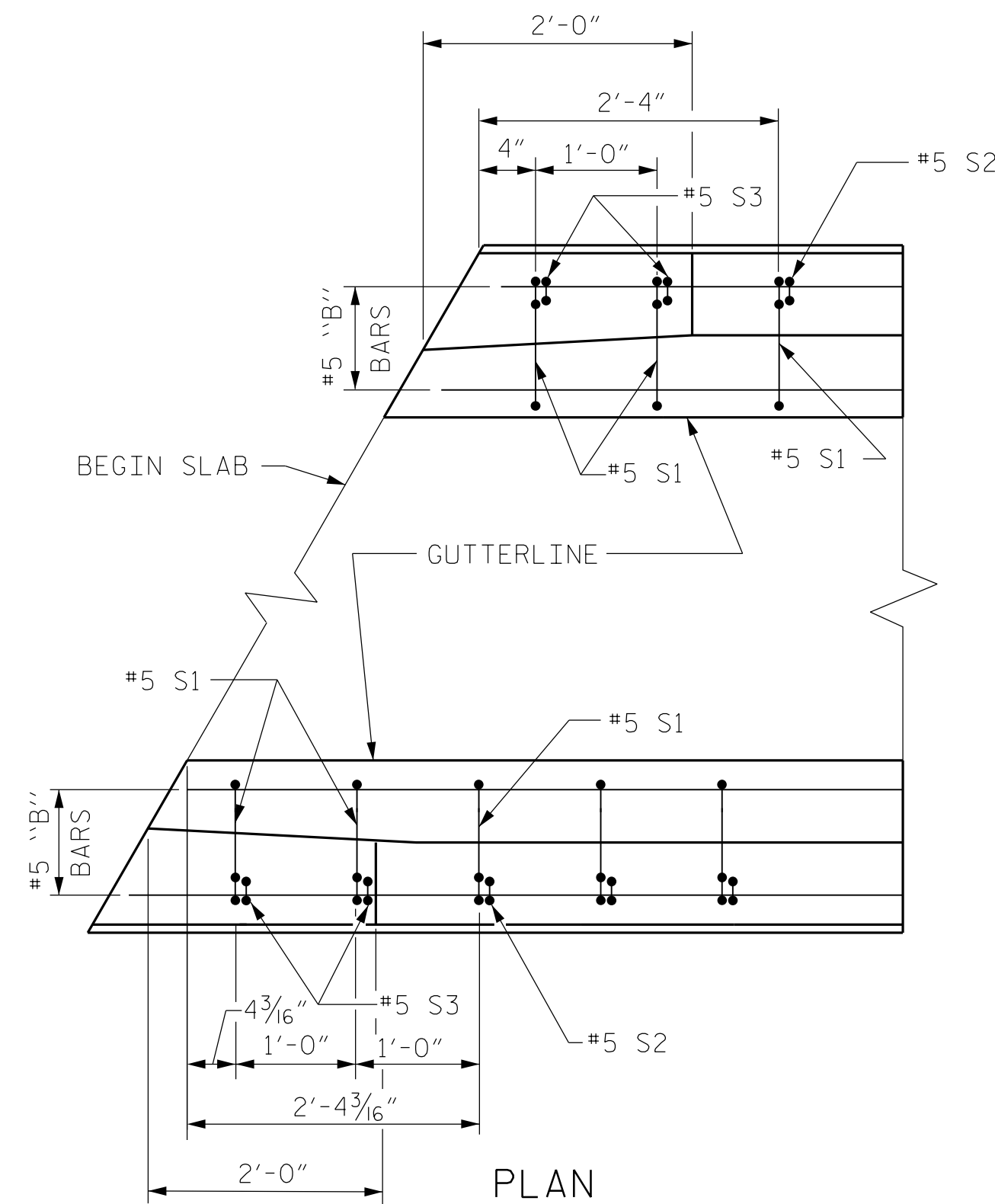


SECTION S-S
AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

ELEVATION AT EXPANSION JOINTS
BARRIER RAIL DETAILS

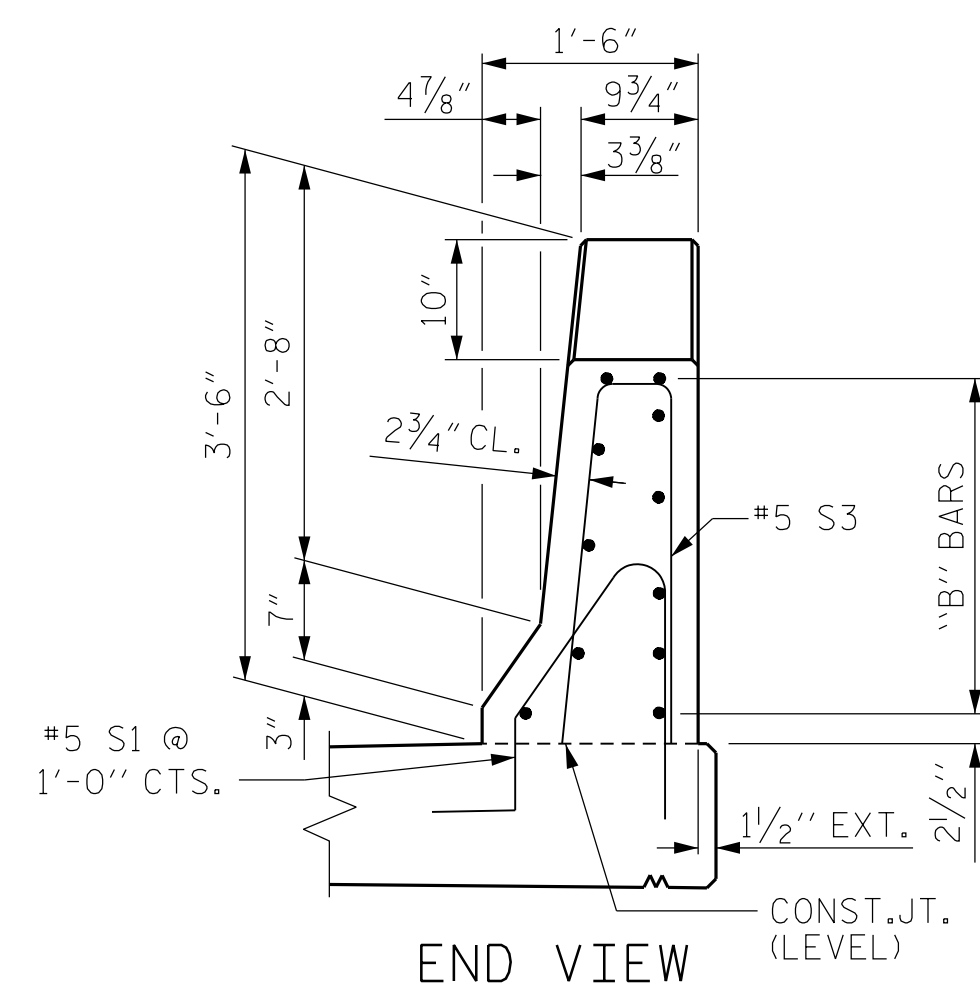


SECTION THRU RAIL



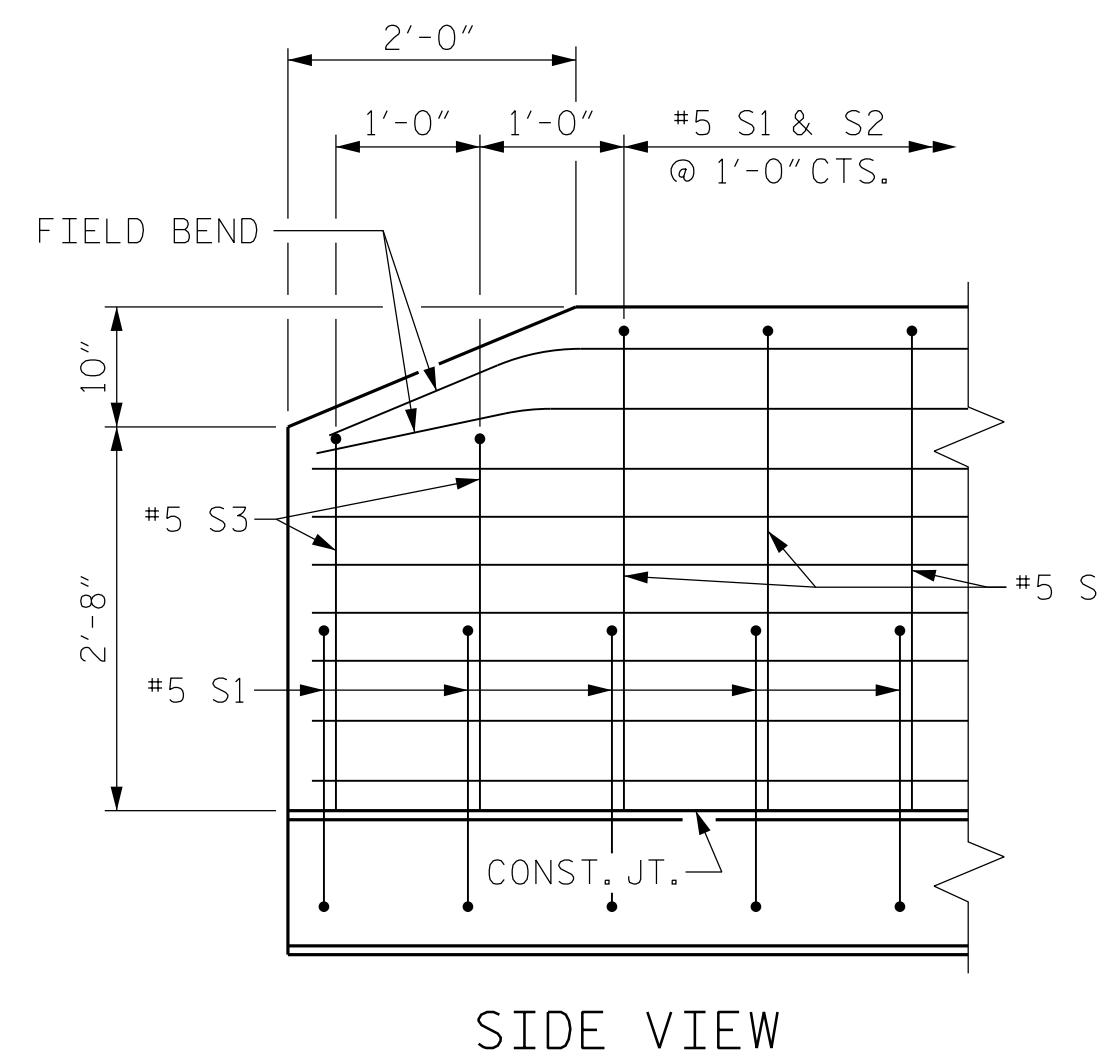
PLAN

NOTE: FOR S1 & S2 BAR SPACINGS, SEE SHEET 1 OF 3.



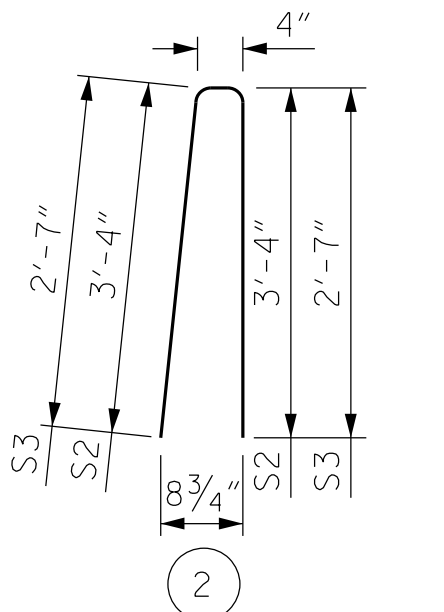
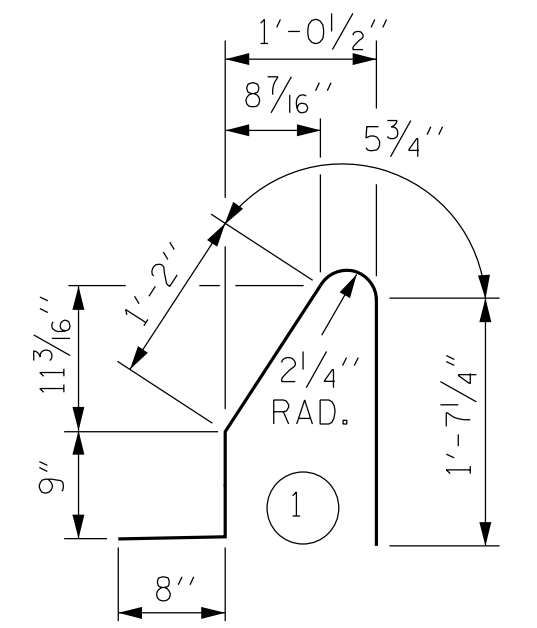
END VIEW

END OF RAIL DETAILS



SIDE VIEW

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY							
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT		
* S1	496	#5	1	4'-8"	2,414		
* S2	488	#5	2	7'-0"	3,563		
* S3	8	#5	2	5'-6"	46		
* B1	154	#5	STR	29'-7"	4,752		
* B2	88	#5	STR	11'-3"	1,033		
					* EPOXY COATED REINFORCING STEEL	11,808 LBS.	
					CLASS AA CONCRETE	67.5 CU. YDS.	
					CONCRETE BARRIER RAIL	496.46 LIN. FT.	

PROJECT NO. BR-0069

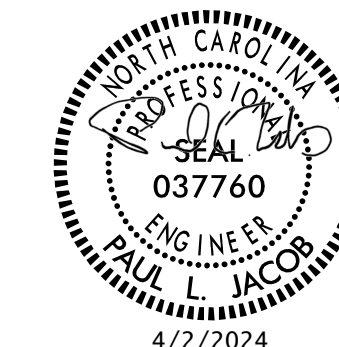
CASWELL COUNTY

STATION: 20+18.00 -L-

SHEET 2 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

CONCRETE BARRIER RAIL



REVISIONS

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

SHEET NO. S-22
TOTAL SHEETS 38

DRAWN BY : J. WEIGER DATE : 1-2023
CHECKED BY : J. LOFTUS DATE : 8-2023
DESIGN ENGINEER OF RECORD: J. LOFTUS DATE : 3-2024

moftatt & nichol
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DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED