

NOTES

THE BARRIER RAIL IN A CONTINUOUS 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.

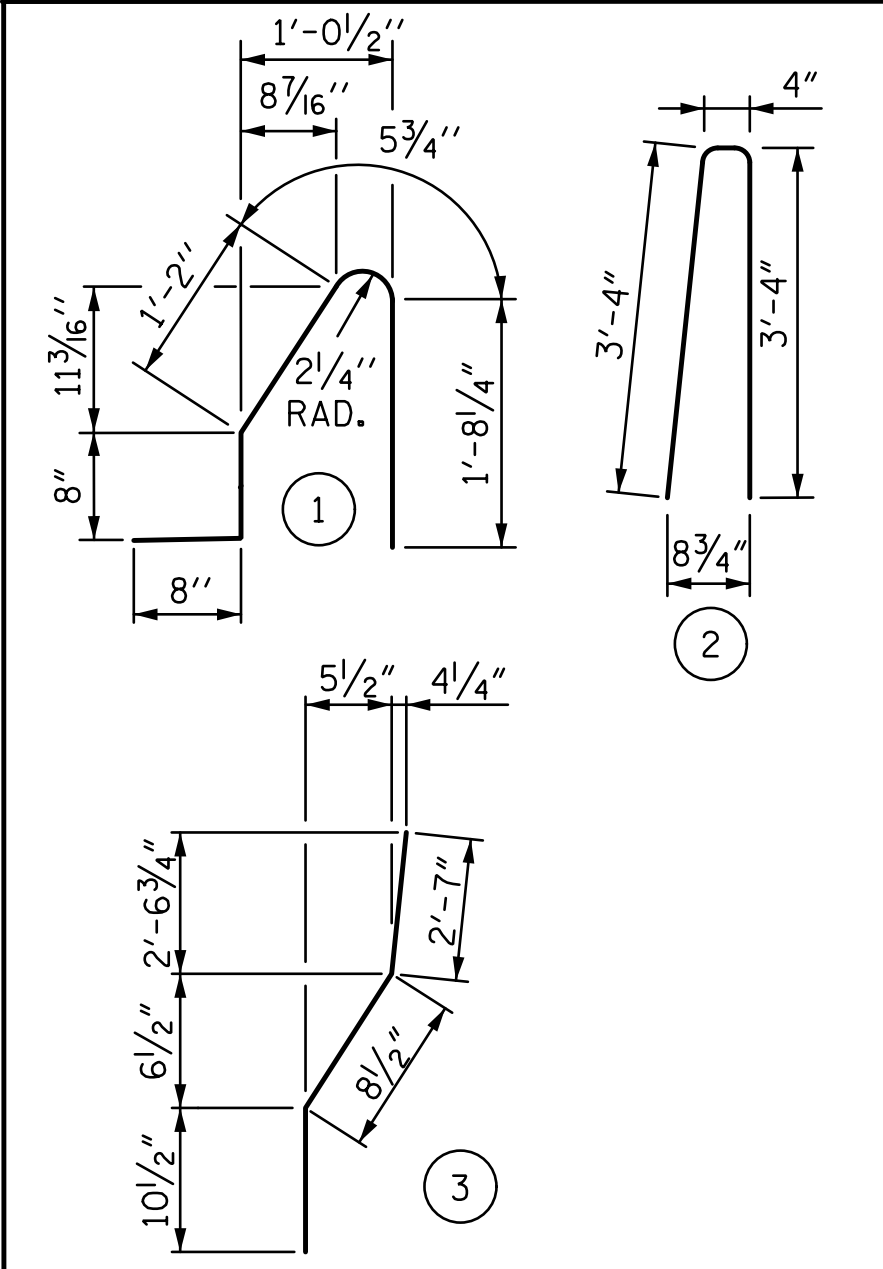
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

CONTRACTOR MAY ADJUST LOCATION OF #5S3 AND #5S4 BARS AS NECESSARY TO AVOID EXPANSION JOINT BLOCKOUT.

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.

CONCRETE BARRIER RAIL ON APPROACH SLAB LENGTH & QUANTITIES, NOT INCLUDED. SEE "BRIDGE APPROACH SLAB DETAILS" SHEETS.

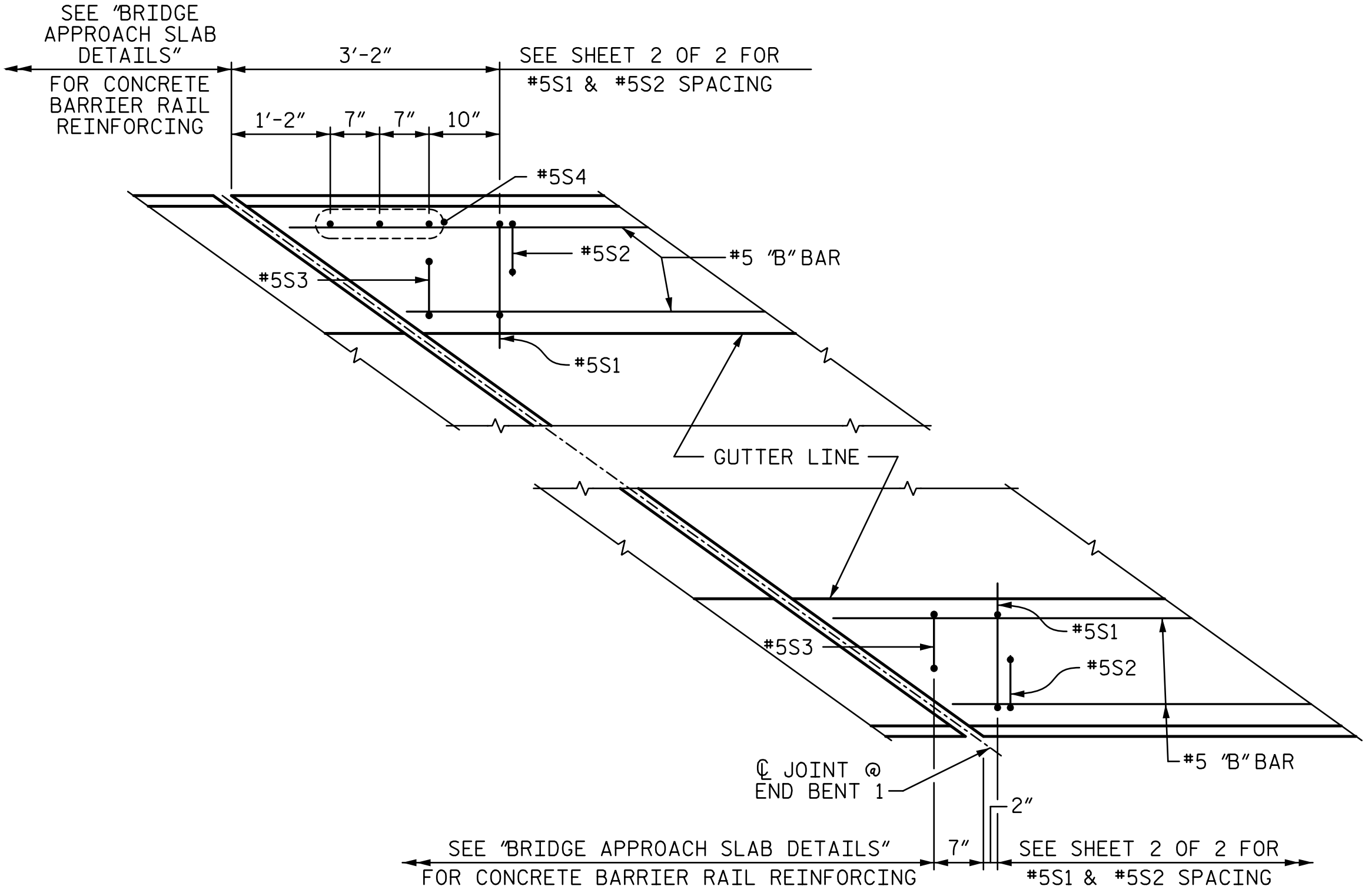
BAR TYPES



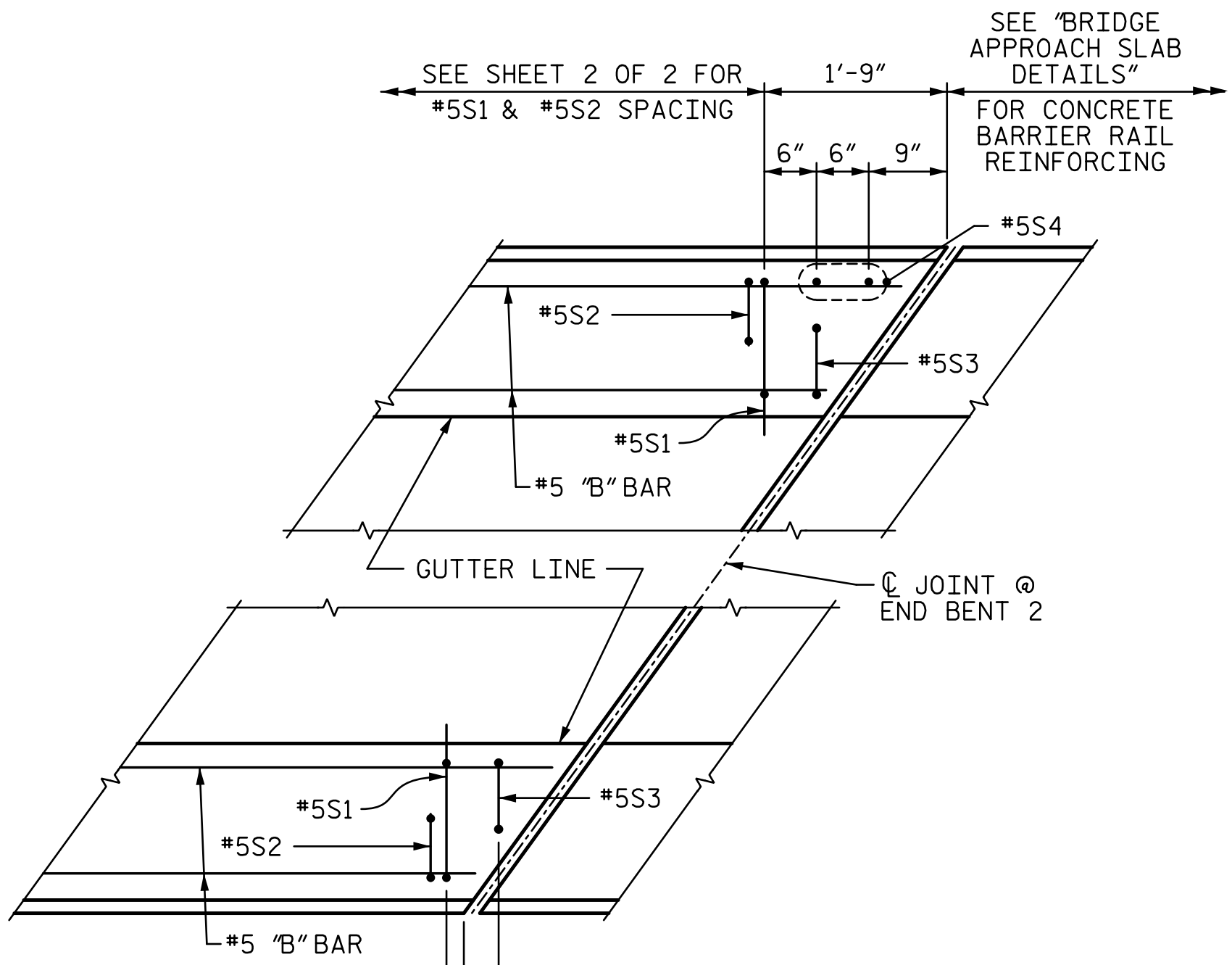
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	319	#5	STR	27'-6"	9,150
* B2	110	#5	STR	15'-10"	1,817
* B3	22	#5	STR	16'-10"	386
* B4	176	#5	STR	12'-8"	2,325
* B5	22	#5	STR	23'-8"	543
* S1	1,188	#5	①	4'-8"	5,782
* S2	1,188	#5	②	7'-0"	8,674
* S3	4	#5	③	4'-2"	17
* S4	5	#5	STR	4'-0"	21
* EPOXY COATED REINFORCING STEEL					28,715 LBS.
CLASS AA CONCRETE					161.9 CU. YDS.
CONCRETE BARRIER RAIL					1,190.7 LIN. FT.

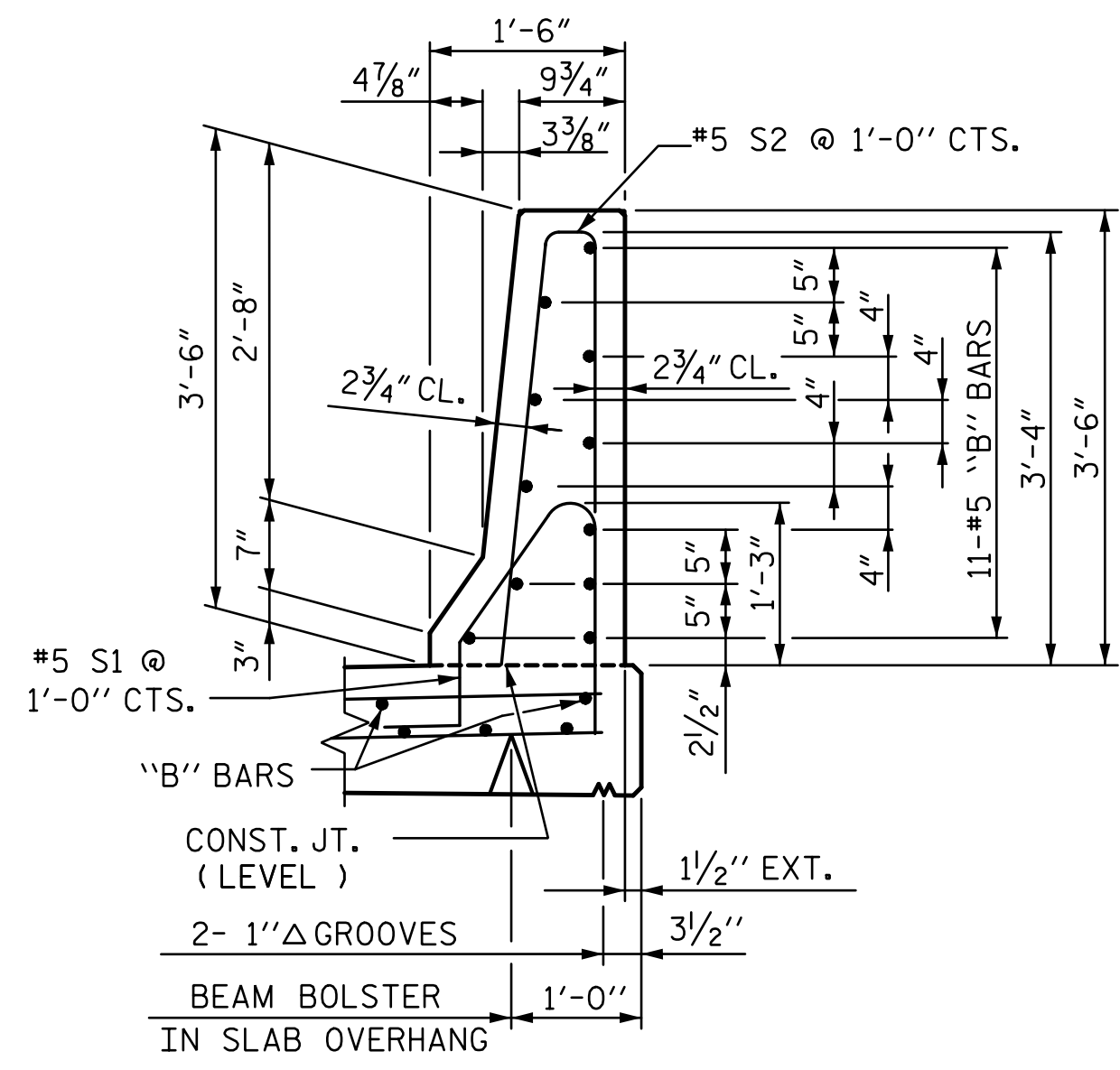


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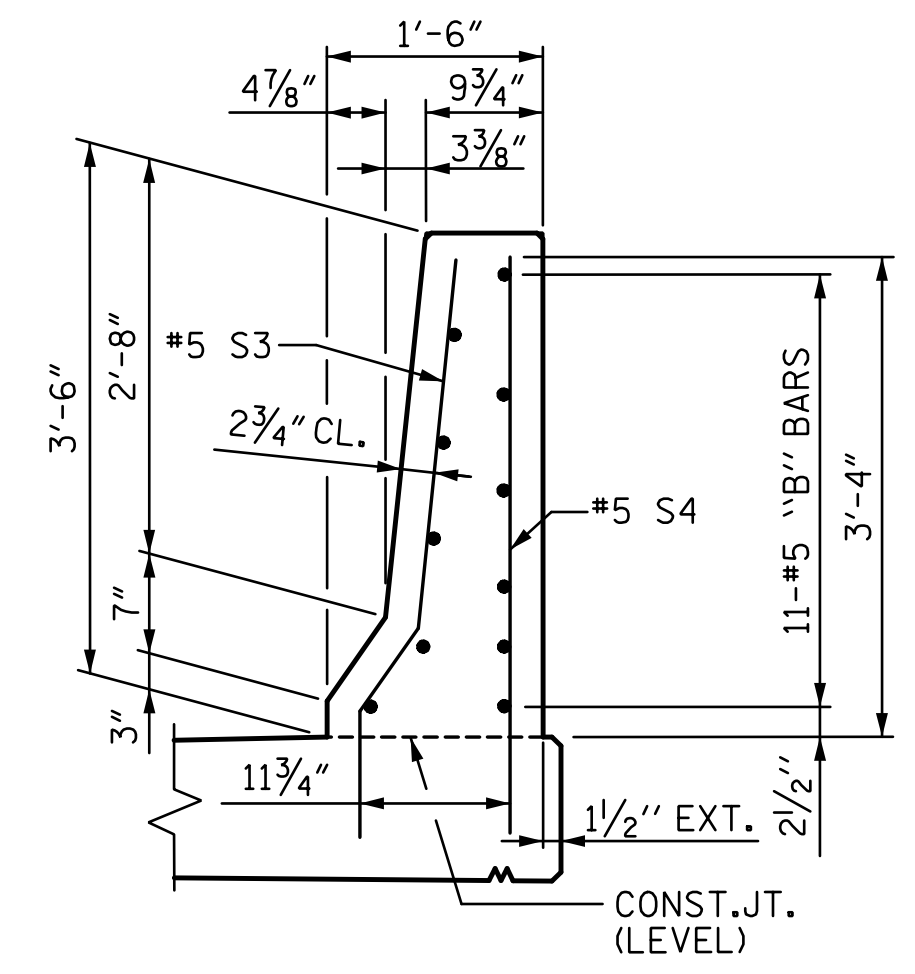


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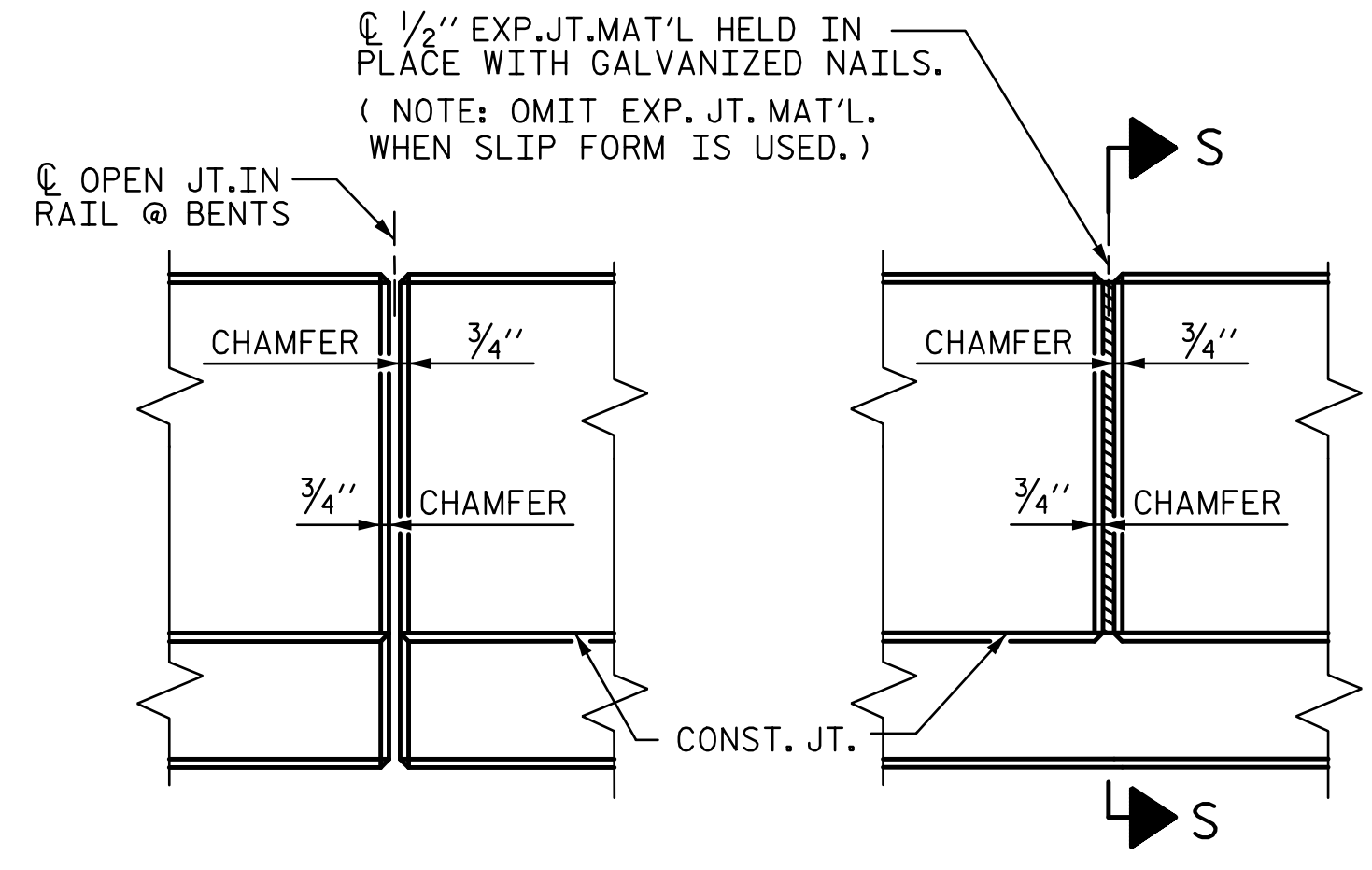
PLAN AT JOINTS



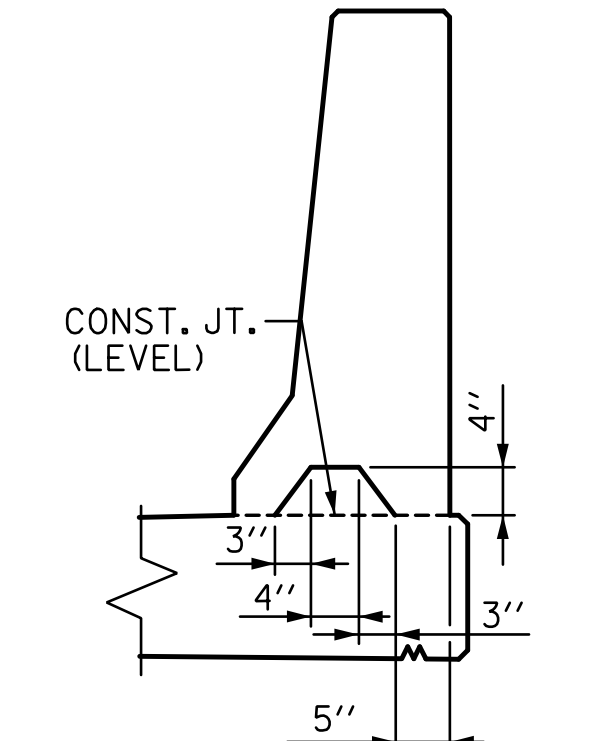
TYPICAL SECTION THRU RAIL



TYPICAL SECTION AT JOINT



ELEVATION AT EXPANSION JOINTS
BARRIER RAIL DETAILS



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

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DRAWN BY : ATH	DATE : 9-16	DESIGN ENGINEER OF RECORD: T. LAWS	DATE : 10-16
CHECKED BY : TRL	DATE : 10-16		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
CONCRETE BARRIER RAIL DETAILS

(SITE 6L)

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

TOTAL SHEETS: **56**

PROJECT NO. **R-2707C**
CLEVELAND COUNTY
STATION: **596+50.98 -L-**
SHEET 1 OF 2