

c:\users\jgeille\documents\p.w. working\dms5559\192707E-SMU_BR02_220494.dgn 5/5/2023 12:49:01 PM jgeille

NOTES

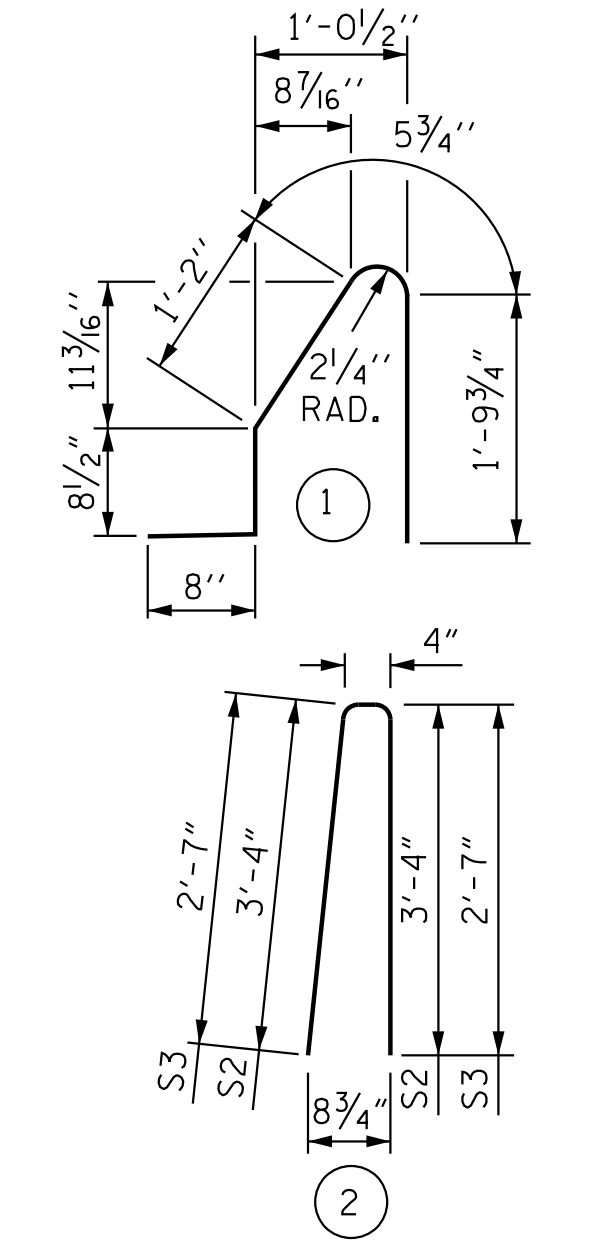
THE BARRIER RAIL IN THE CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPANS HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.

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.

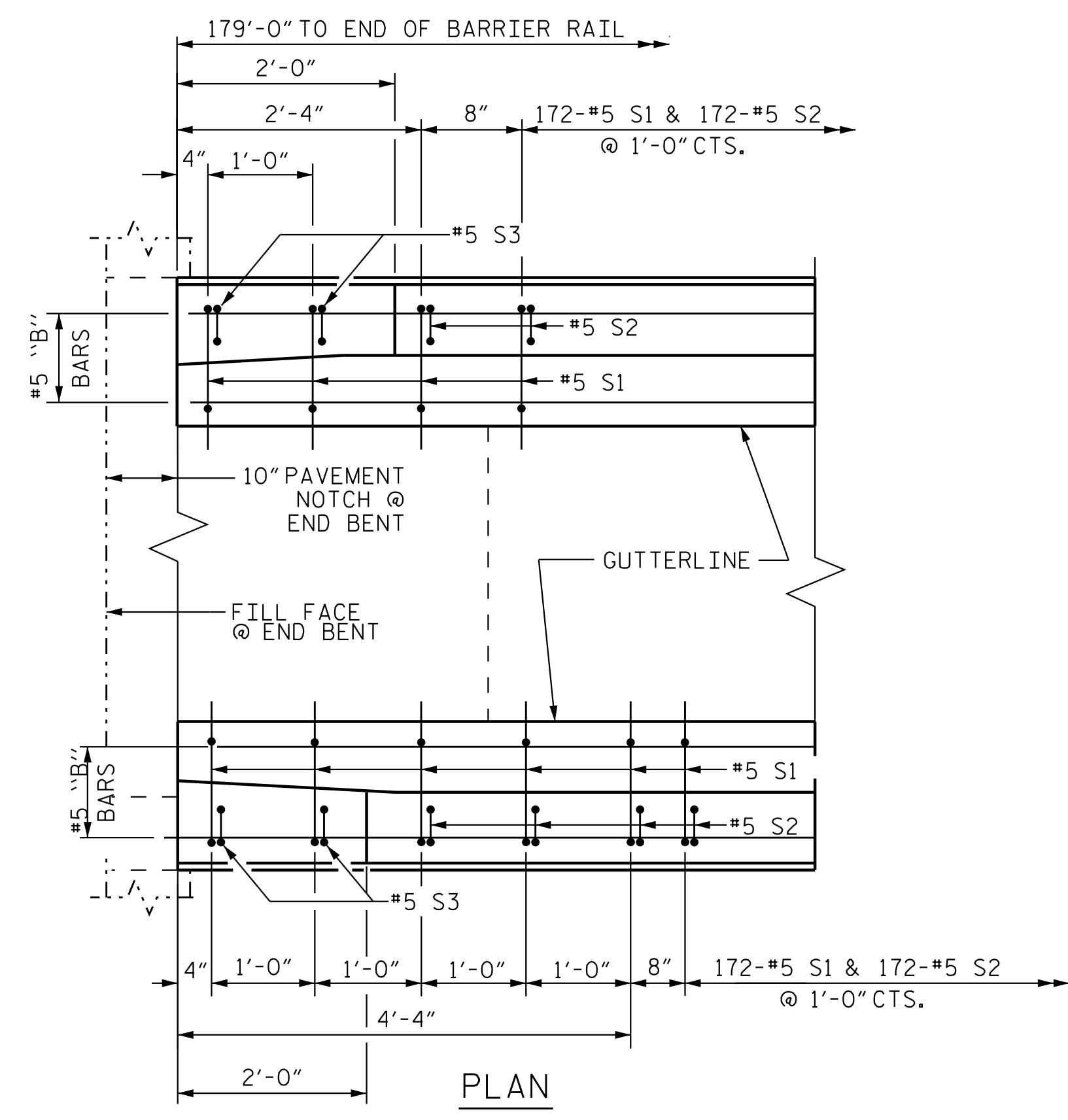
BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

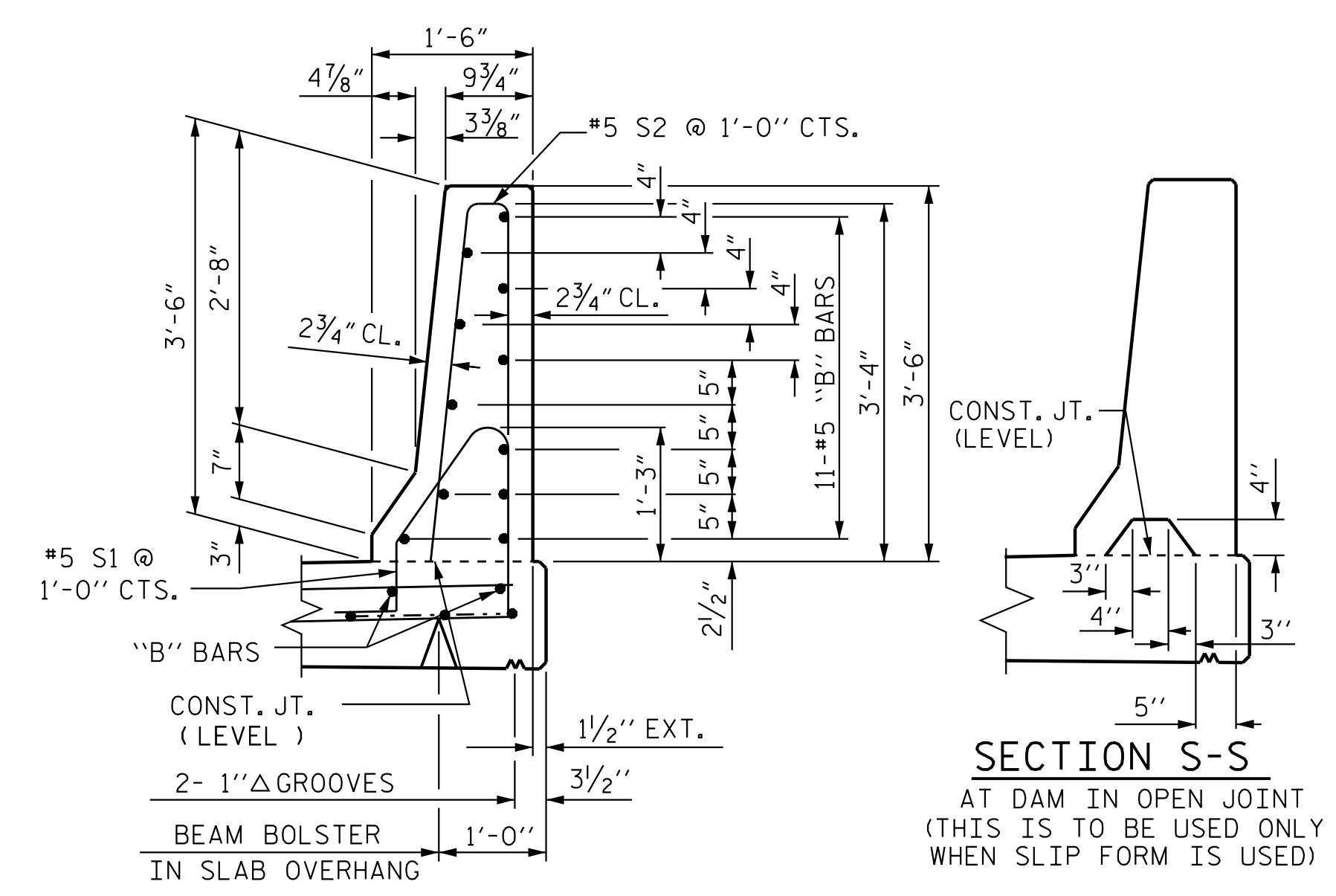
BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	22	#5	STR	11'-2"	256
* B2	132	#5	STR	24'-8"	3396
* B3	22	#5	STR	17'-2"	394
* S1	360	#5	1	4'-10"	1815
* S2	352	#5	2	7'-0"	2570
* S3	8	#5	2	5'-6"	46
* EPOXY COATED REINFORCING STEEL				8477	LBS.
CLASS AA CONCRETE				48.5	CU. YDS.
CONCRETE BARRIER RAIL				358.00	LIN. FT.



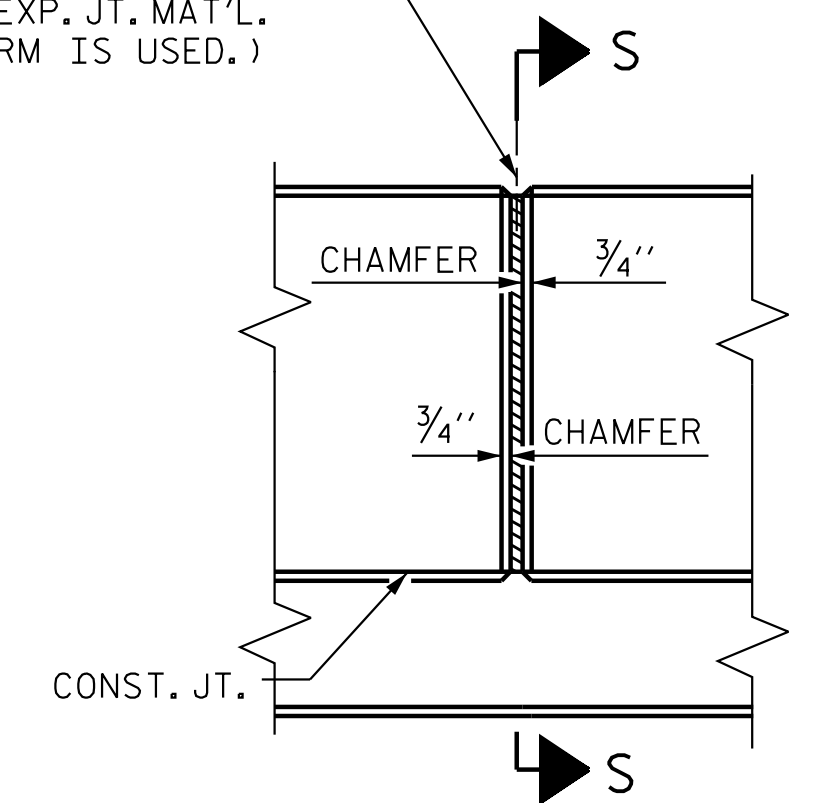
DETAIL @ END BENT

END BENT 1 SHOWN, END BENT 2 TYP. BY ROTATION

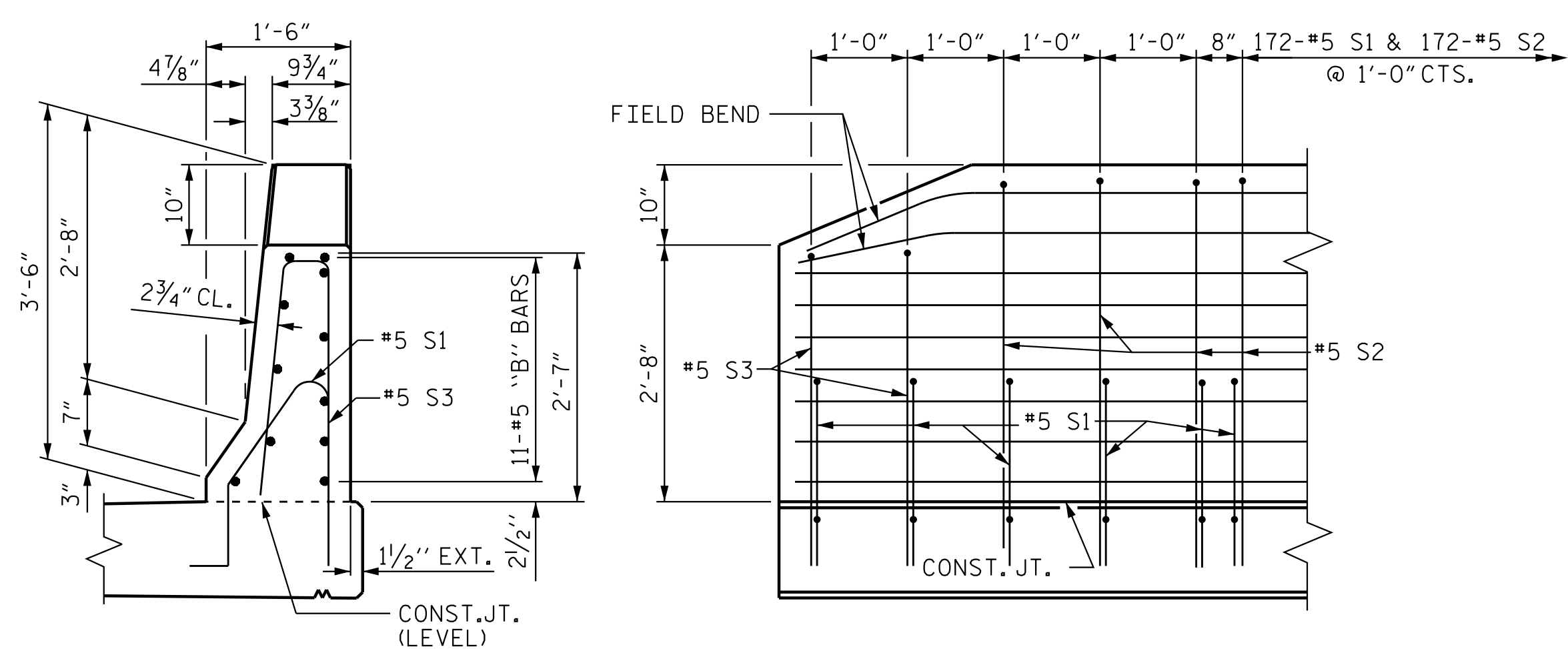


SECTION THRU RAIL

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

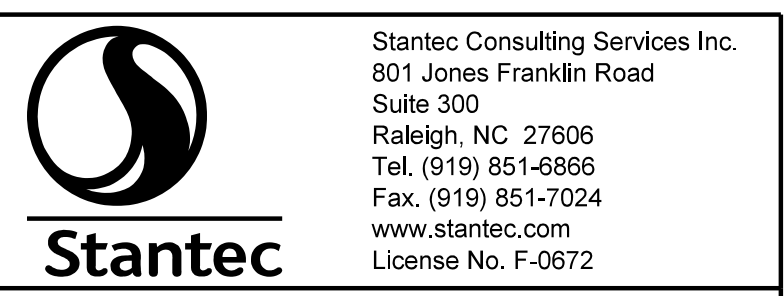


ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS



END VIEW END OF RAIL DETAILS

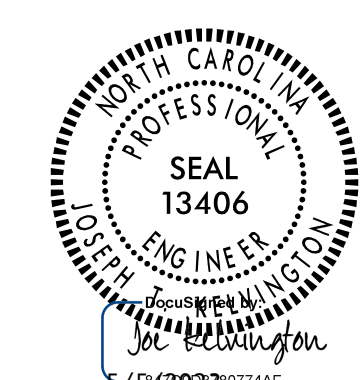
SIDE VIEW



ASSEMBLED BY : J. B. GEILLE DATE : 12/12/18
CHECKED BY : A. L. BOYKIN DATE : 02/17/23

DRAWN BY : ARB 5/87
CHECKED BY : SJD 9/87

REV. 7/12 MAA/GM
REV. 6/13 MAA/GM
REV. 12/17 MAA/THC
DESIGN ENGINEER OF RECORD: J. T. KELVINGTON DATE : 05/05/23



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. R-2707E
CLEVELAND COUNTY
STATION: 13+08.49 -Y42-

SHEET 2 OF 2

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S7-20
1			3			TOTAL SHEETS
2			4			34