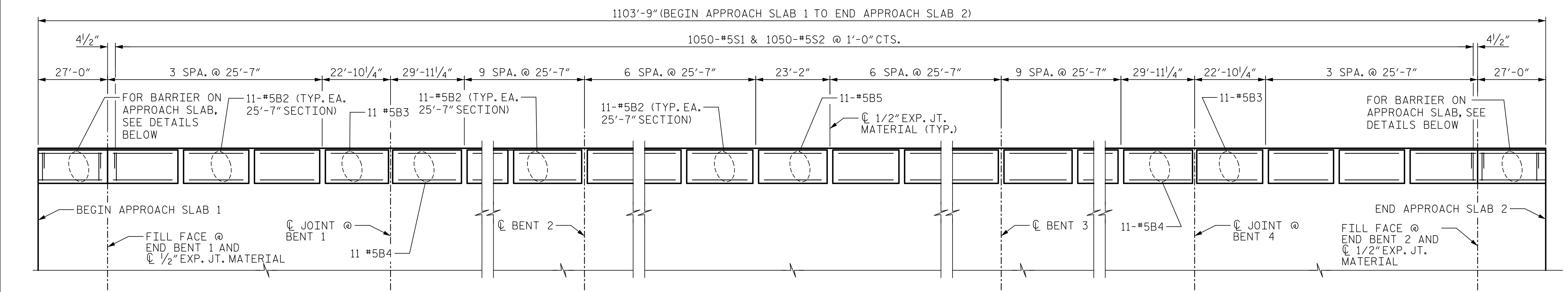
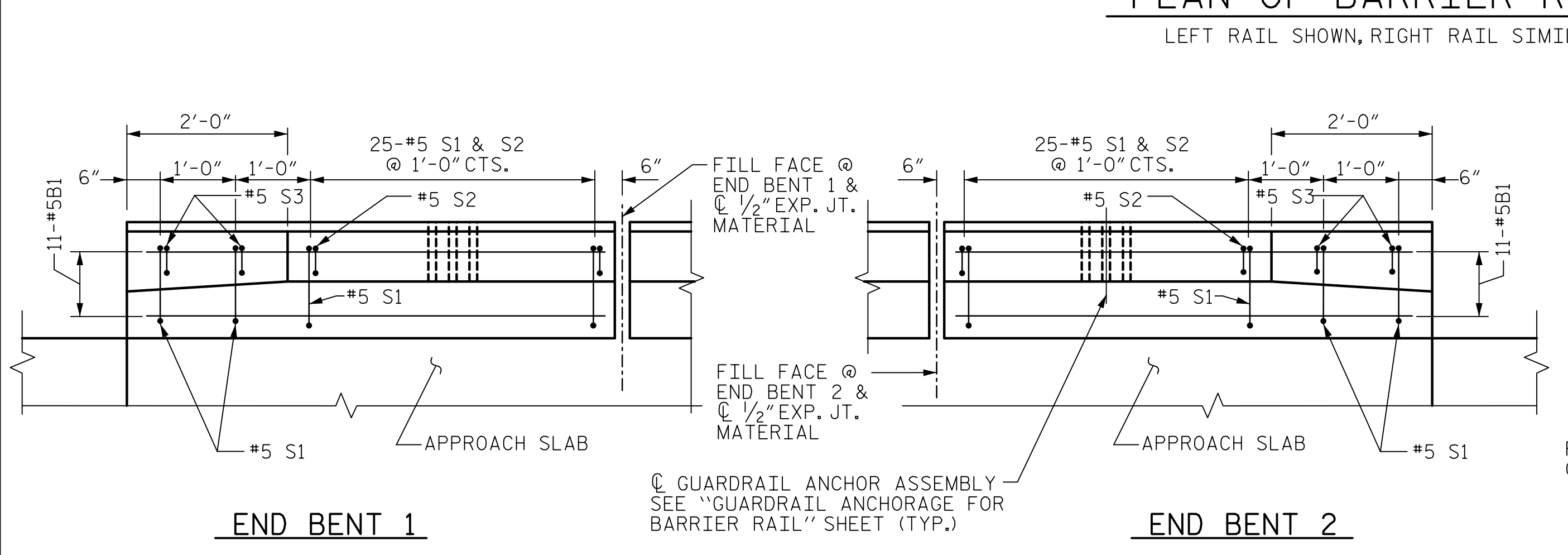


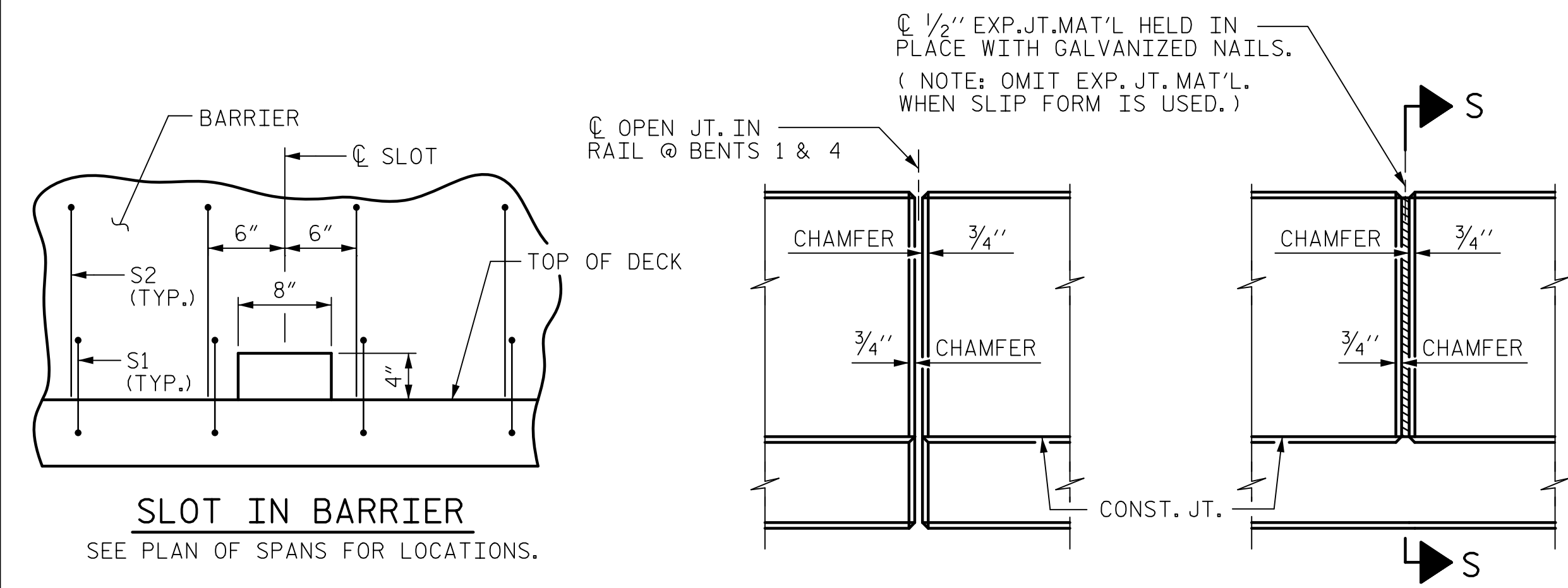
DATE: 2/27/2020
TIME: 4:05:45 PM



PLAN OF BARRIER RAIL
LEFT RAIL SHOWN, RIGHT RAIL SIMILAR

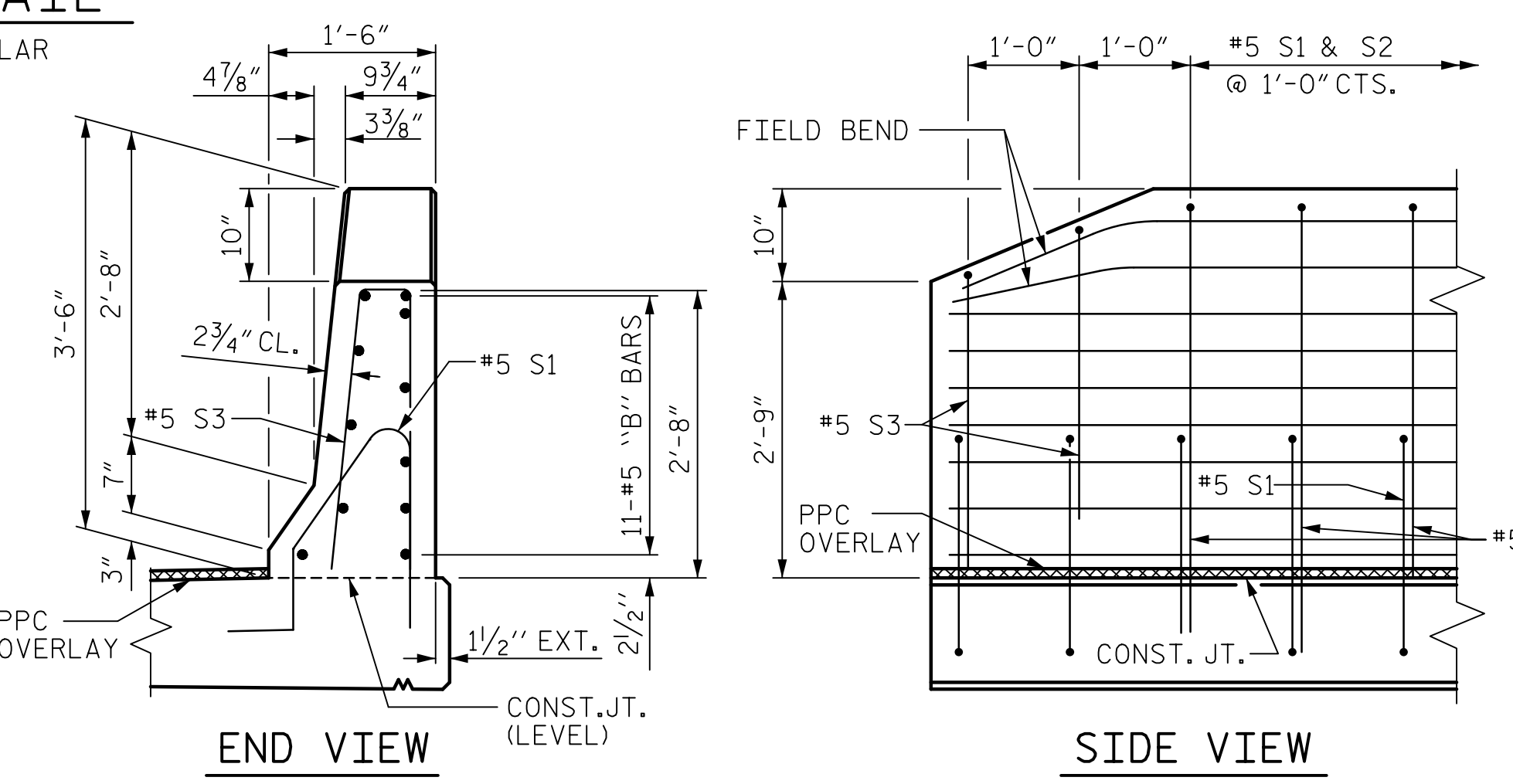


PLAN OF BARRIER RAIL ON APPROACH SLAB
LEFT RAIL SHOWN, RIGHT RAIL SIMILAR

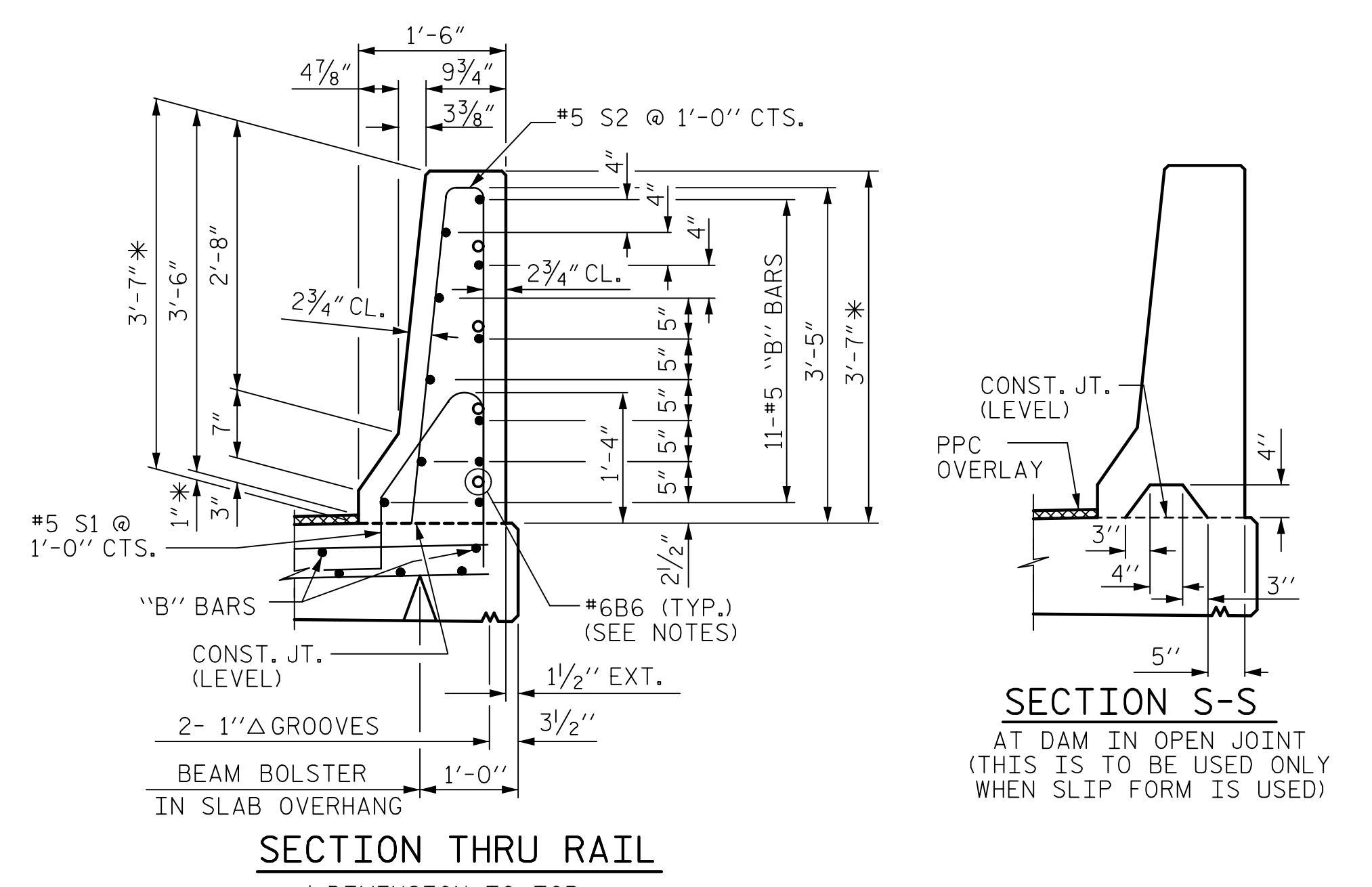


ELEVATION AT EXPANSION JOINTS

DRAWN BY: M. K. TOM	DATE: 1/2019
CHECKED BY: G. COLS	DATE: 1/2019
DESIGNED BY: N. BROWN	DATE: 1/2019
DESIGN CHECKED BY: J. SLOAN	DATE: 1/2019

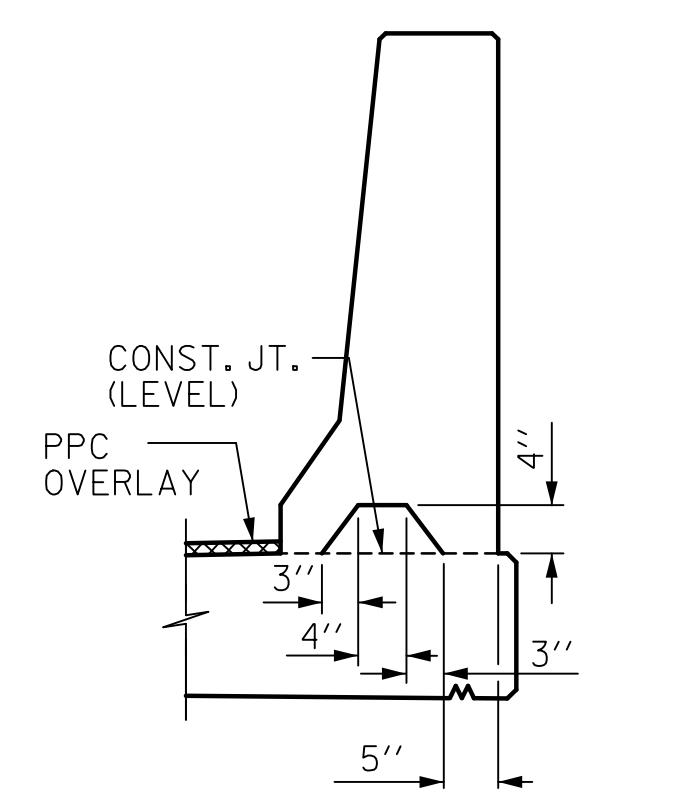


END OF RAIL DETAILS



SECTION THRU RAIL
* DIMENSION TO TOP OF CONCRETE DECK PRIOR TO PPC OVERLAY

BARRIER RAIL DETAILS



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

BILL OF MATERIAL					
FOR CONCRETE BARRIER RAIL ONLY					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	44	5	STR	26'-7"	1,220
* B2	792	5	STR	25'-2"	20,789
* B3	44	5	STR	22'-5"	1,029
* B4	44	5	STR	29'-6"	1,354
* B5	22	5	STR	22'-9"	522
* B6	16	6	STR	12'-0"	288
* S1	2208	5	1	4'-10"	11,131
* S2	2208	5	2	7'-2"	15,504
* S3	8	5	2	5'-8"	47
* EPOXY COATED REINFORCING STEEL					52,884 LBS.
ALL-LIGHTWEIGHT CONCRETE					310.5 CU. YDS.
CONCRETE BARRIER RAIL (ALL-LIGHTWEIGHT CONC.)					2,207.5 LIN. FT.

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.

S1 AND S2 BARS IN THE BARRIER SHALL BE SHIFTED SLIGHTLY AS NECESSARY TO PROVIDE 2" MIN CLEARANCE TO ALL OPEN JOINTS IN THE BARRIER.

AT LOCATIONS OF INLET ON APPROACH SLAB, INSTALL #6 B7 BARS AS SHOWN IN THE "SECTION THRU RAIL." BARS SHALL BE CENTERED AROUND INLET.

FOR ALL-LIGHTWEIGHT CONCRETE, SEE SPECIAL PROVISIONS.

PROJECT NO. 15BPR.20
HENDERSON COUNTY
 STATION: 35+30.22 -L-

AECOM
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 AECOM License No. F-0342

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SEAL
 JOHN E. SLOAN
 ENGINEER
 035062
 2/28/2020

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

SHEET NO. S-100	
TOTAL SHEETS 129	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED