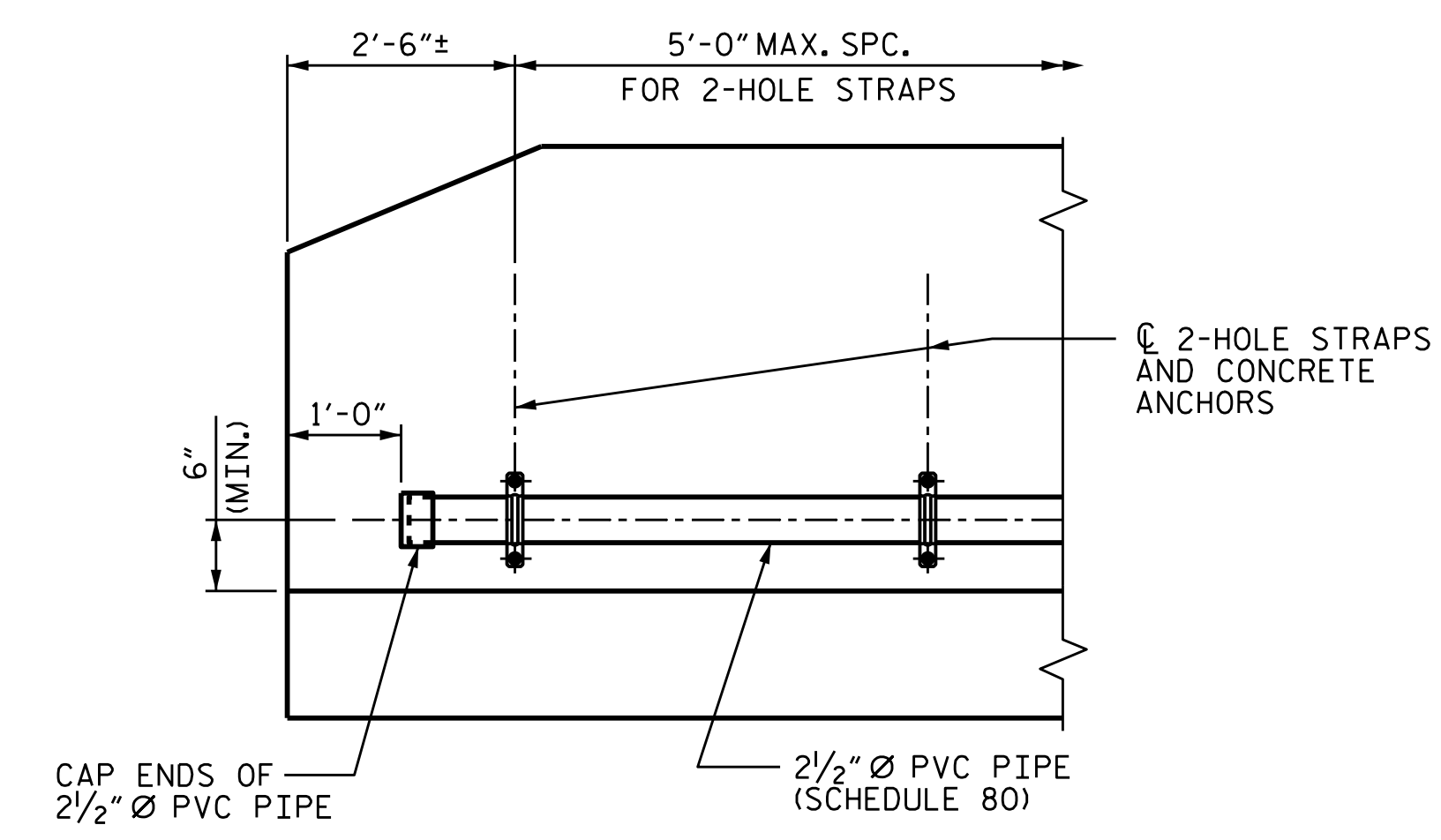
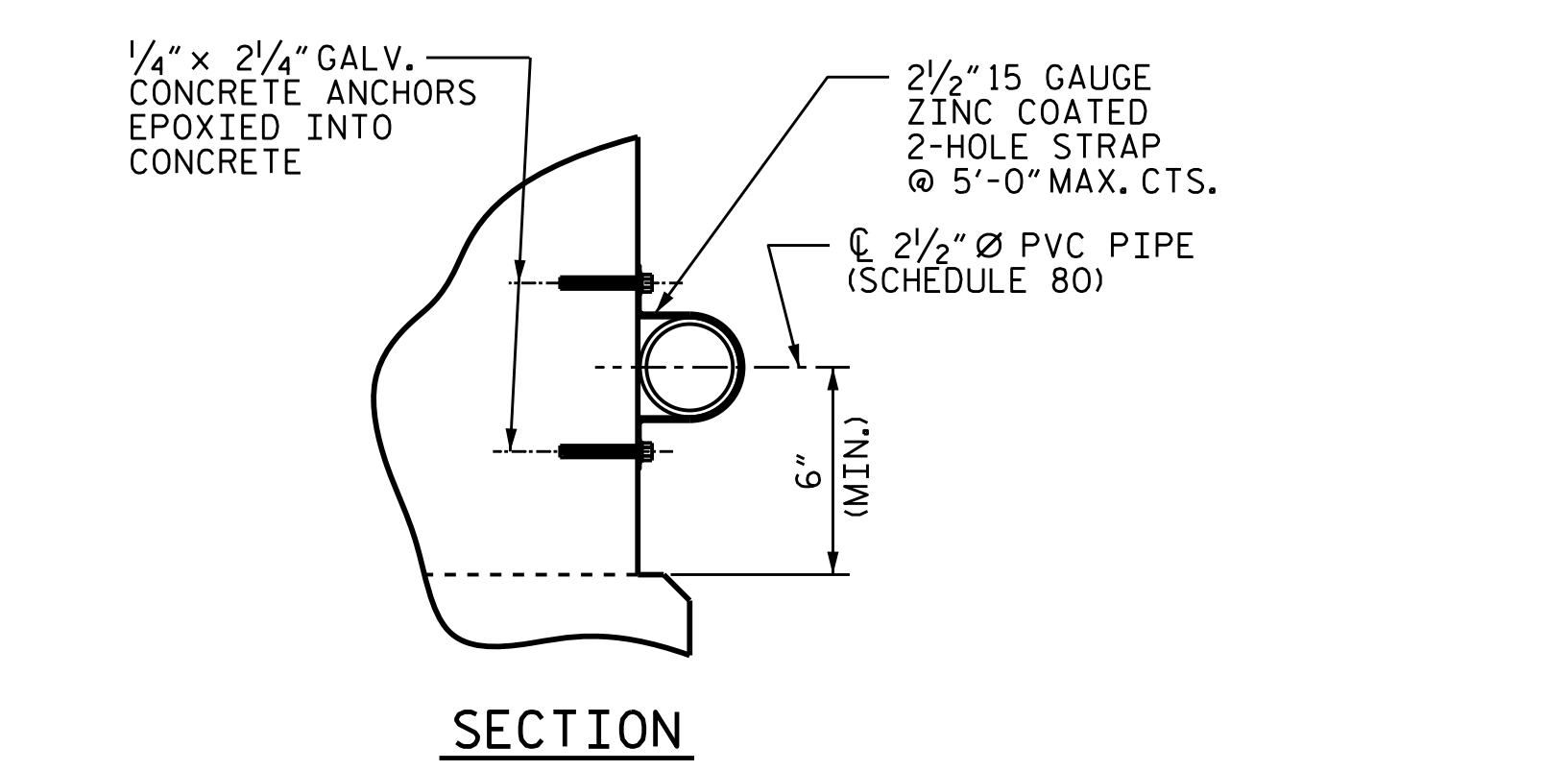


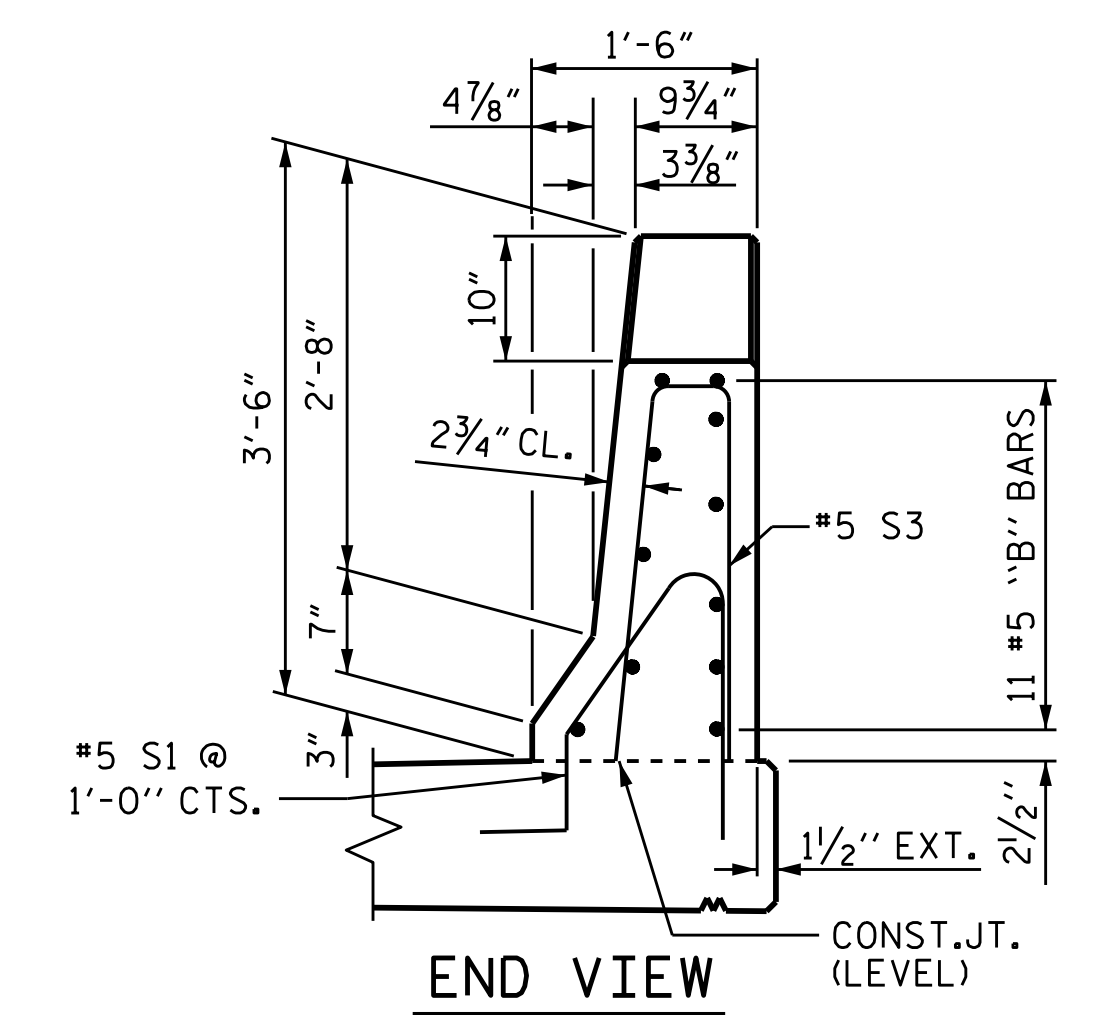
PLAN OF CONCRETE BARRIER RAIL



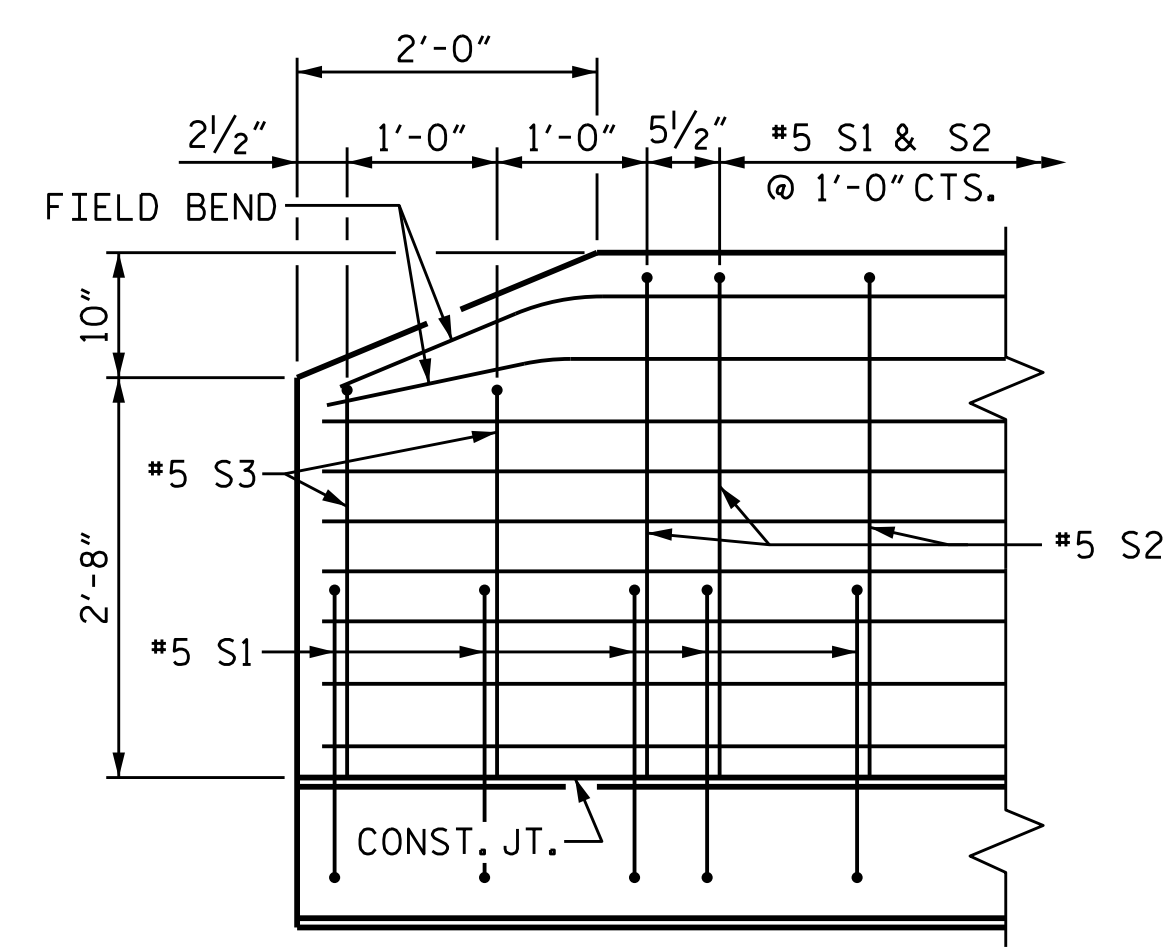
ELEVATION



FIBER OPTIC CONDUIT SYSTEM DETAILS



END VIEW



SIDE VIEW

END OF RAIL DETAILS

NOTES

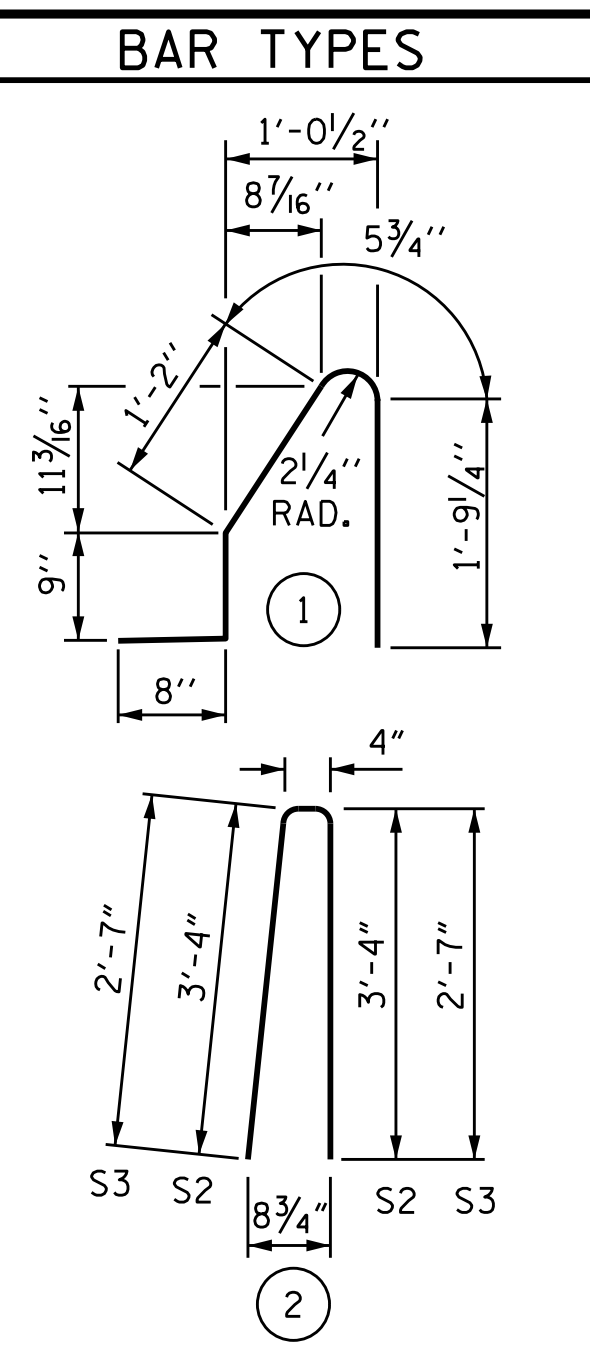
THE BARRIER RAIL IN A CONTINUOUS SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S1 AND #5 S2 BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 2" MINIMUM CLEARANCE TO 1/2" EXPANSION JOINT MATERIAL IN THE BARRIER RAIL.

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.

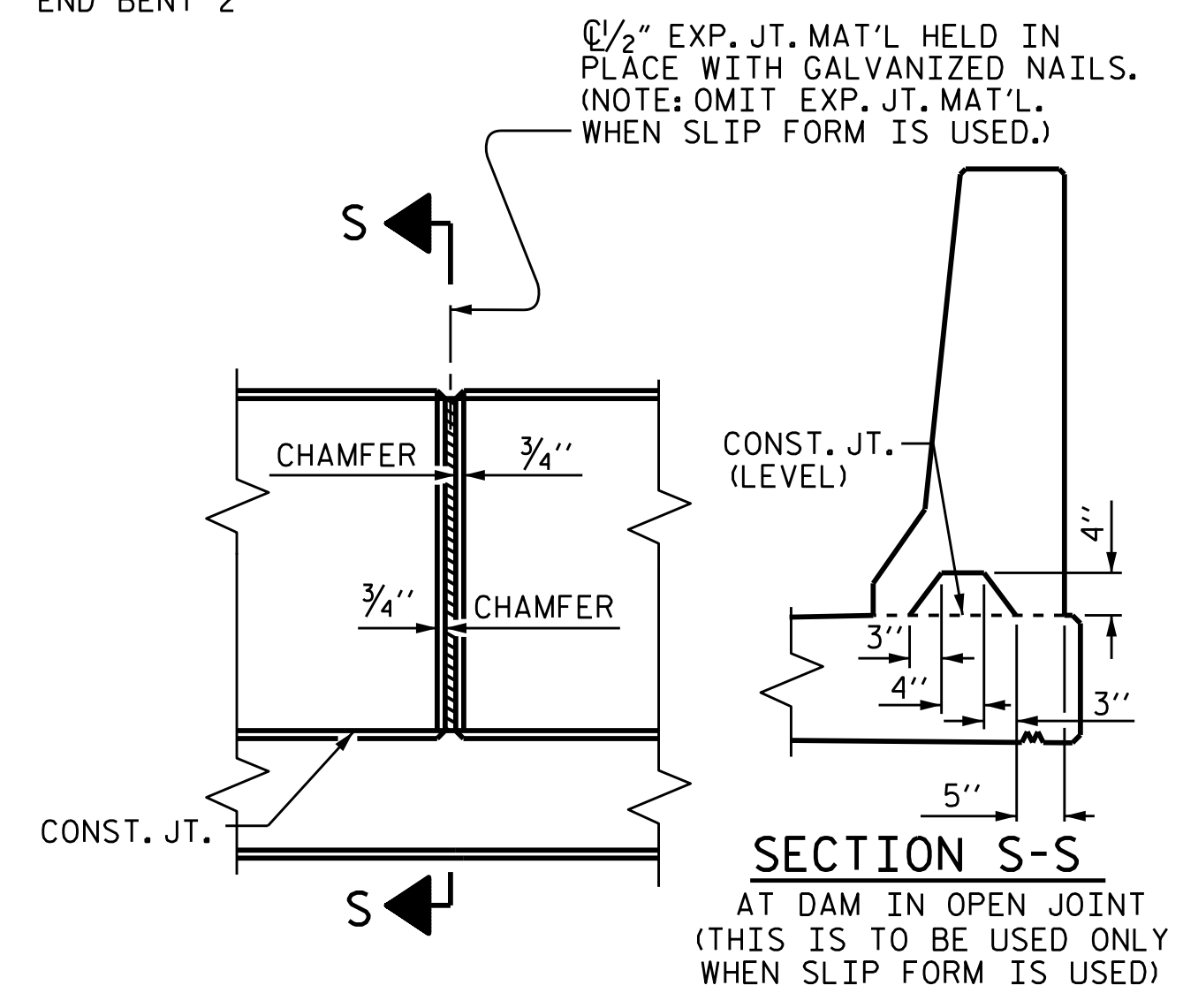
FOR FIBER OPTIC CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.



ALL BAR DIMENSIONS ARE OUT TO OUT

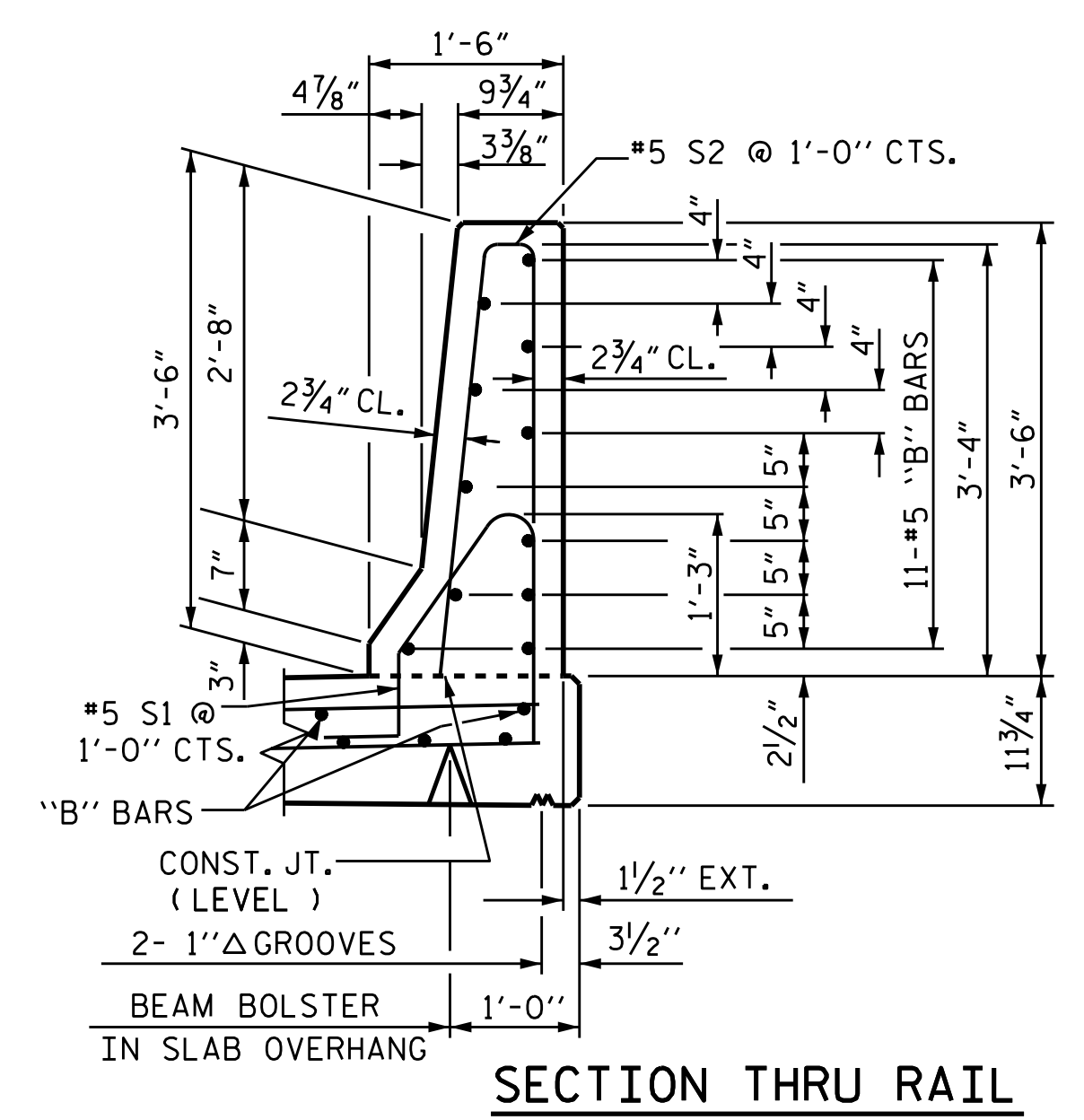
BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	110	#5	STR	24'-7"	2,820
* B2	22	#5	STR	23'-9"	545
* B3	22	#5	STR	18'-9"	430
* S1	340	#5	1	4'-10"	1,714
* S2	332	#5	2	7'-0"	2,424
* S3	8	#5	2	5'-6"	46
* EPOXY COATED REINFORCING STEEL					7,979 LBS.
CLASS AA CONCRETE					46 CU. YDS.
CONCRETE BARRIER RAIL					336.67 LIN. FT.

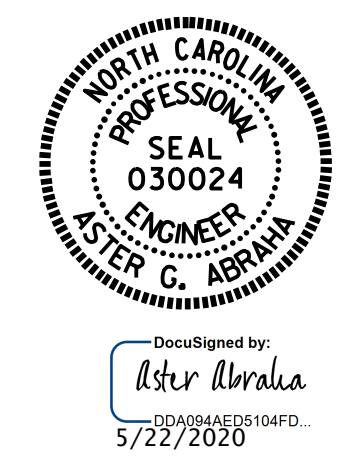


ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS



SECTION THRU RAIL



PROJECT NO. B-4931
 EDGEcombe COUNTY
 STATION: 16+99.00 -L-

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			30

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY : S. WANCE DATE : 01/2020
 CHECKED BY : A. G. ABRAHA DATE : 01/2020
 DRAWN BY : ARB 5/87 MAA/GM
 CHECKED BY : SJD 9/87 REV. 7/12 MAA/GM
 REV. 6/13 MAA/GM
 REV. 12/17 MAA/THC