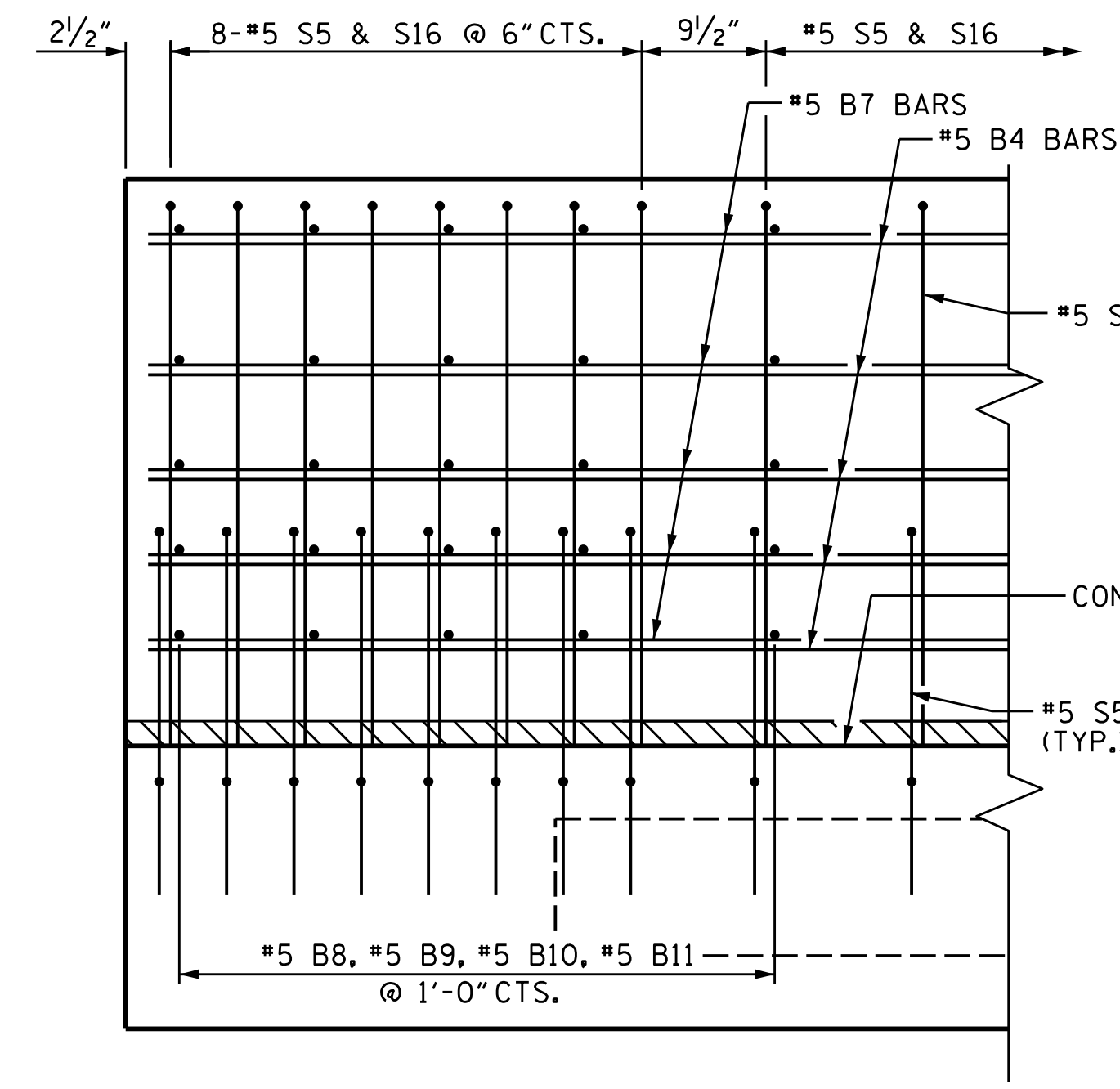
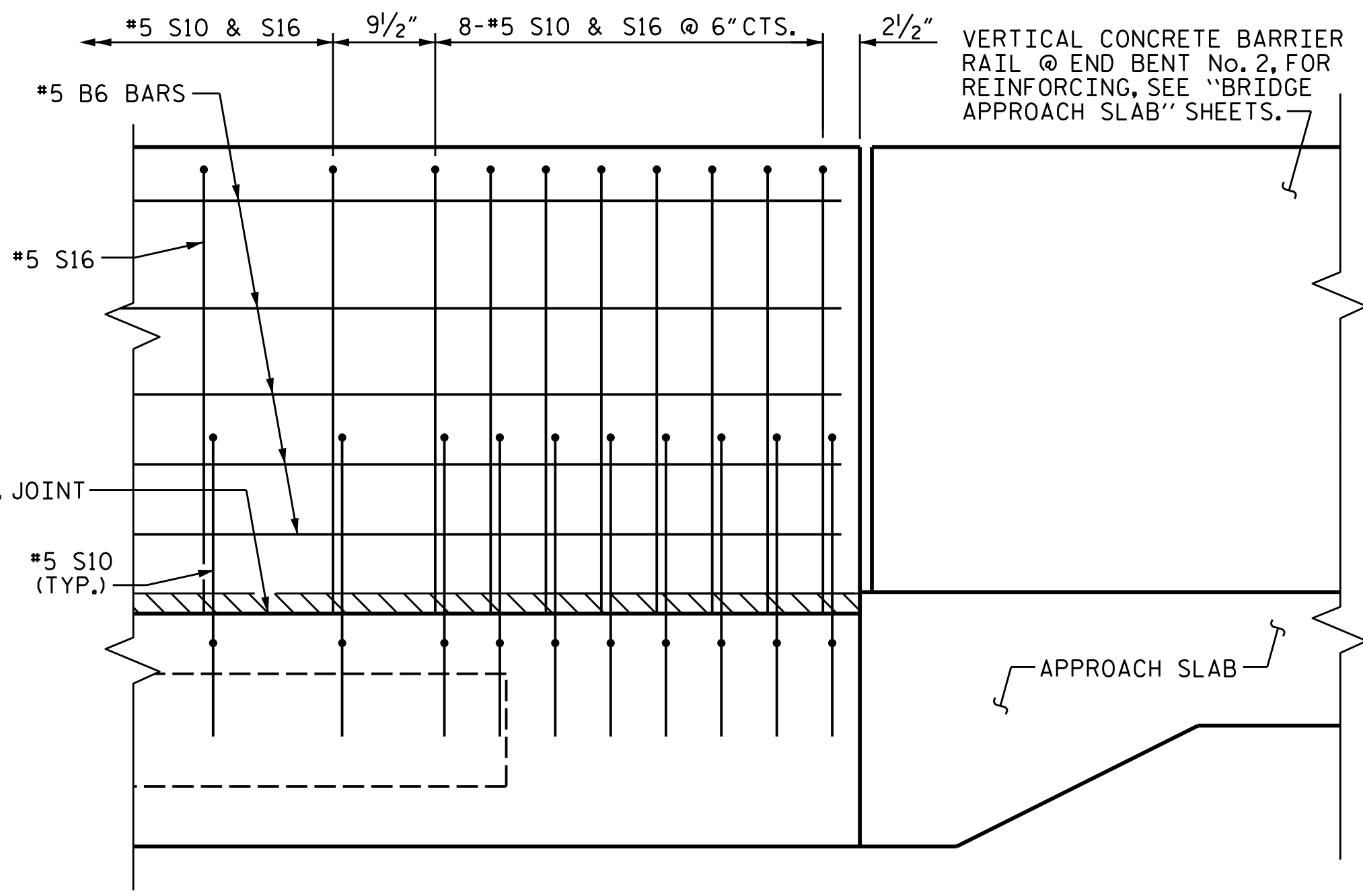


END VIEW AT END BENT No. 1



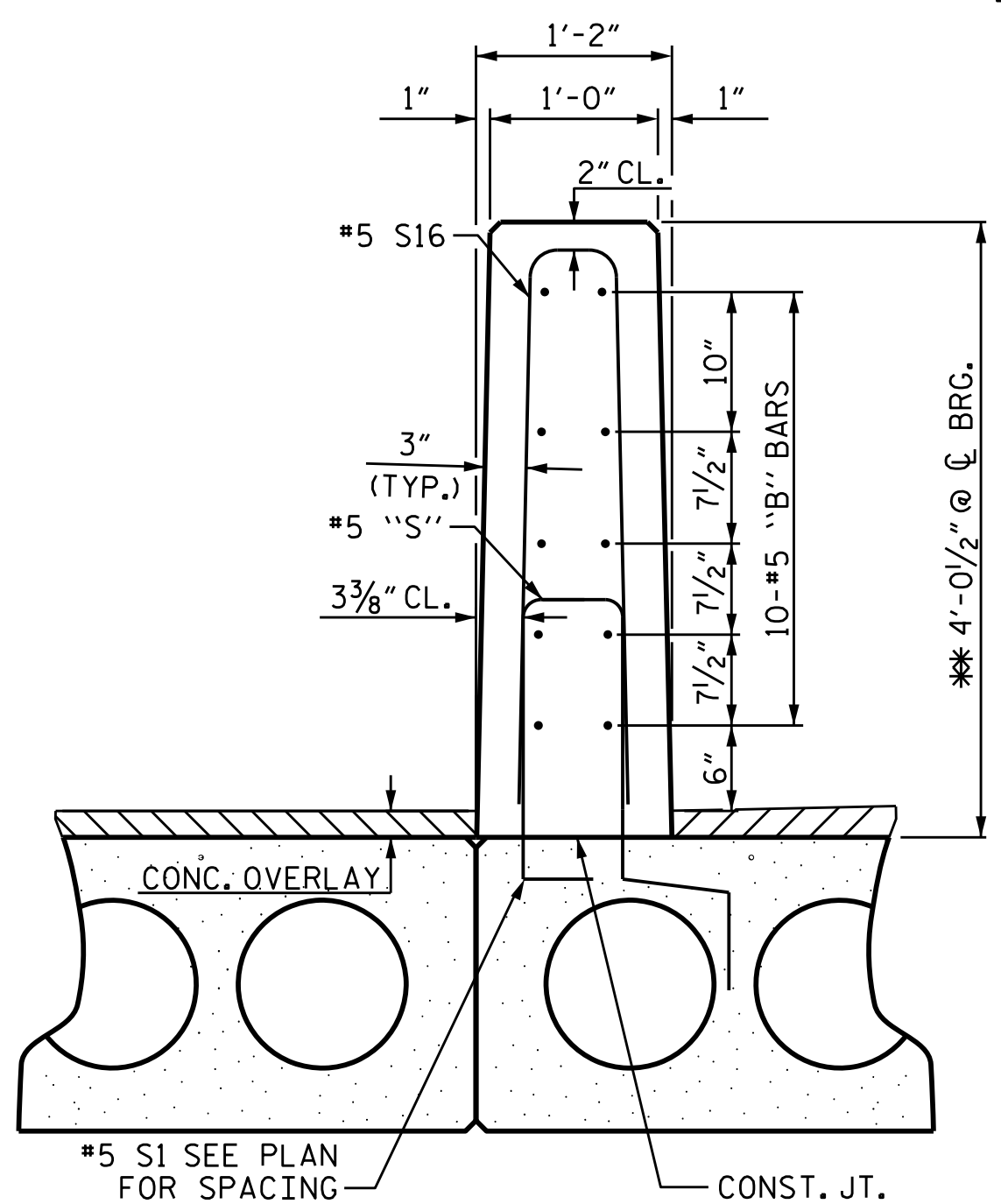
ELEVATION @ END BENT No. 1



ELEVATION @ END BENT No. 2

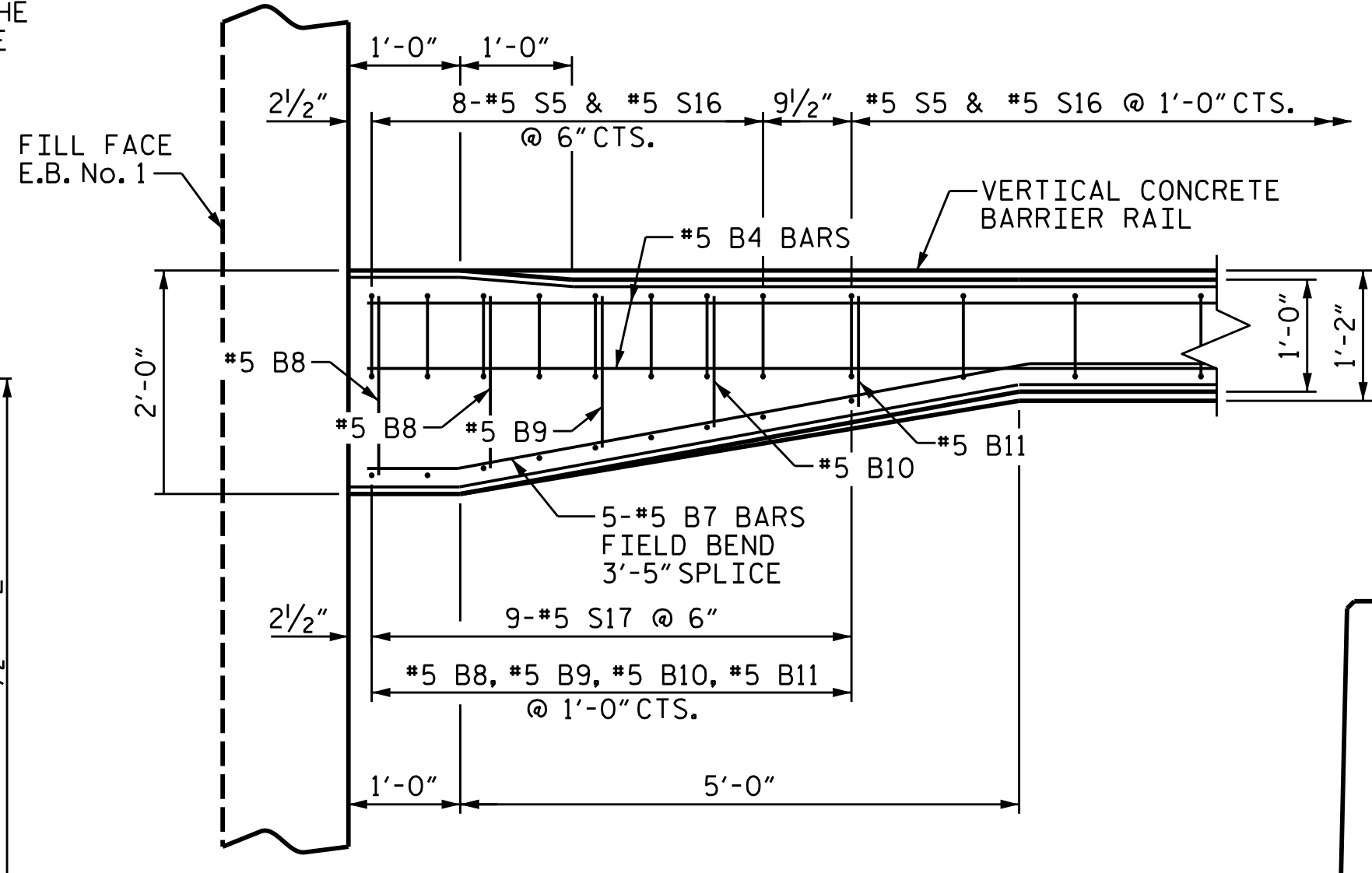
BILL OF MATERIAL FOR VERTICAL CONCRETE BARRIER RAIL					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B4	20	#5	STR	19'-7"	409
* B5	60	#5	STR	24'-7"	1538
* B6	20	#5	STR	29'-7"	617
* B7	5	#5	STR	9'-2"	48
* B8	10	#5	STR	1'-6"	16
* B9	5	#5	STR	1'-4"	7
* B10	5	#5	STR	1'-2"	6
* B11	5	#5	STR	1'-0"	5
* S16	282	#5	1	7'-6"	2206
* S17	9	#5	STR	3'-6"	33
* EPOXY COATED REINFORCING STEEL				LBS.	4885
CLASS AA CONCRETE				CU.YDS.	41.1
VERTICAL CONC. BARRIER RAIL				265.38 LIN. FT.	
ARCHITECTURAL CONC. SURFACE TREATMENT				1885 SQ. FT.	
BAR TYPES					
ALL BAR DIMENSIONS ARE OUT TO OUT					

* THE MAXIMUM VERTICAL CONCRETE BARRIER RAIL HEIGHT IS SHOWN. THE HEIGHT OF THE BARRIER RAIL VARIES WHILE THE TOP OF THE BARRIER RAIL FOLLOWS THE PROFILE OF THE CONCRETE WEARING SURFACE.

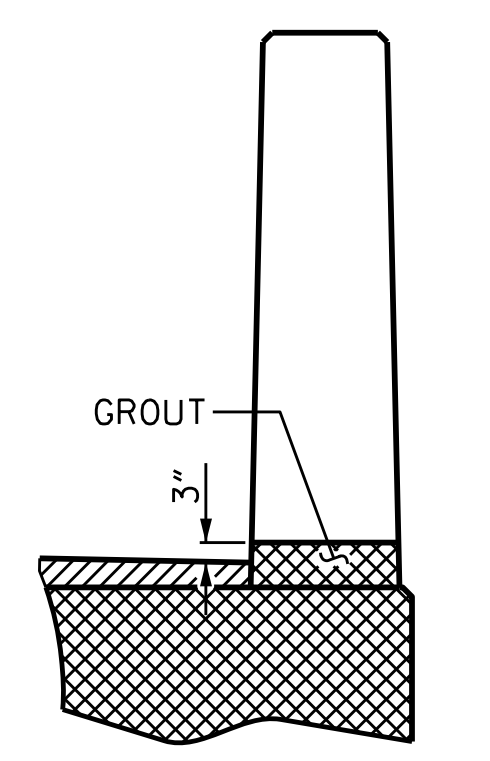


SECTION THRU RAIL

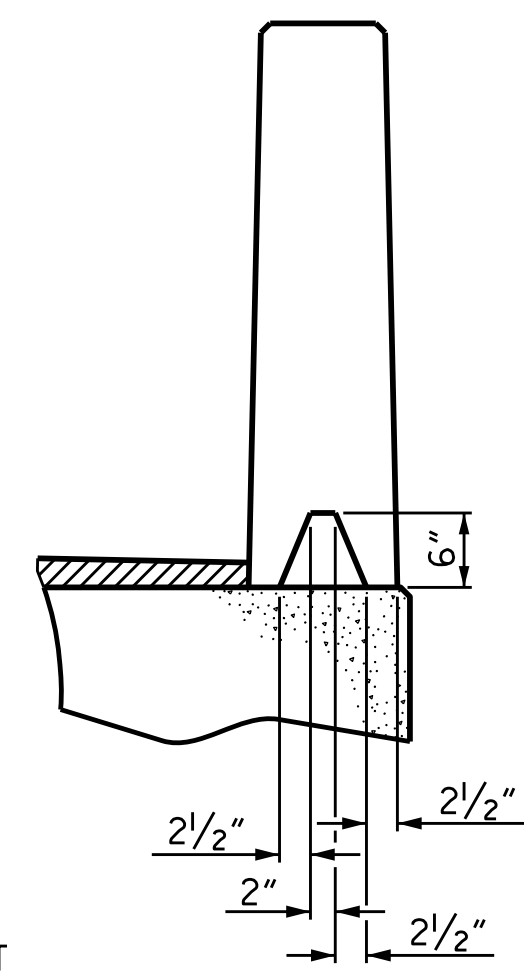
1/2" EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS. (NOTE: OMIT EXP. JT. MAT'L. WHEN SLIP FORM IS USED)



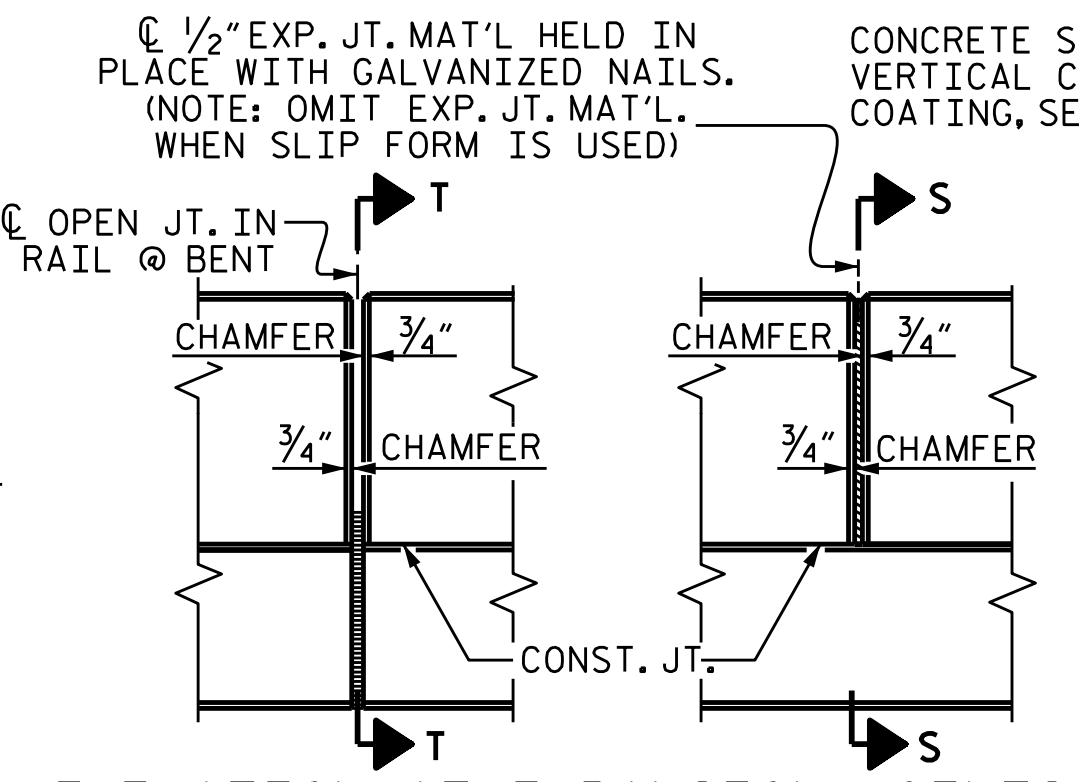
PLAN @ END BENT No. 1



SECTION T-T AT OPEN JOINT AT BENT



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



ELEVATION AT EXPANSION JOINTS

NOTES

ALL REINFORCING STEEL IN VERTICAL CONCRETE BARRIER RAIL SHALL BE EPOXY COATED.

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

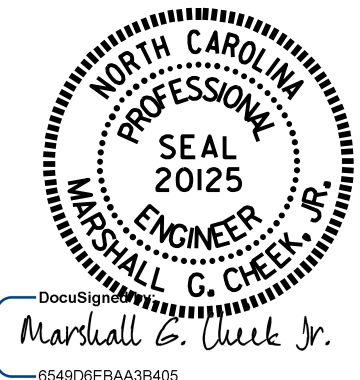
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED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

PAYMENT FOR THE VERTICAL CONCRETE BARRIER RAIL ON APPROACH SLAB No. 2 SHALL BE INCLUDED IN THE PRICE BID FOR "VERTICAL CONCRETE BARRIER RAIL".

ARCHITECTURAL CONCRETE SURFACE TREATMENT SHALL BE APPLIED TO BOTH FACES OF THE VERTICAL CONCRETE BARRIER RAIL. FOR ARCHITECTURAL CONCRETE SURFACE TREATMENT, SEE SPECIAL PROVISIONS.

CONCRETE STAIN SHALL BE APPLIED TO THE TOP SURFACE OF THE VERTICAL CONCRETE BARRIER RAIL. FOR APPLICATION OF BRIDGE COATING, SEE SPECIAL PROVISIONS.

PROJECT NO. B-5125
MACON COUNTY
 STATION: 13+25.89 -L-



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

VERTICAL CONCRETE BARRIER RAIL

DRAWN BY : W.J. HARRIS DATE : 4/16
 CHECKED BY : M.G. CHEEK DATE : 4/29/16
 DESIGN ENGINEER OF RECORD: W.J. HARRIS DATE : 5/16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

S-24
 TOTAL SHEETS
 43