

**NOTES**

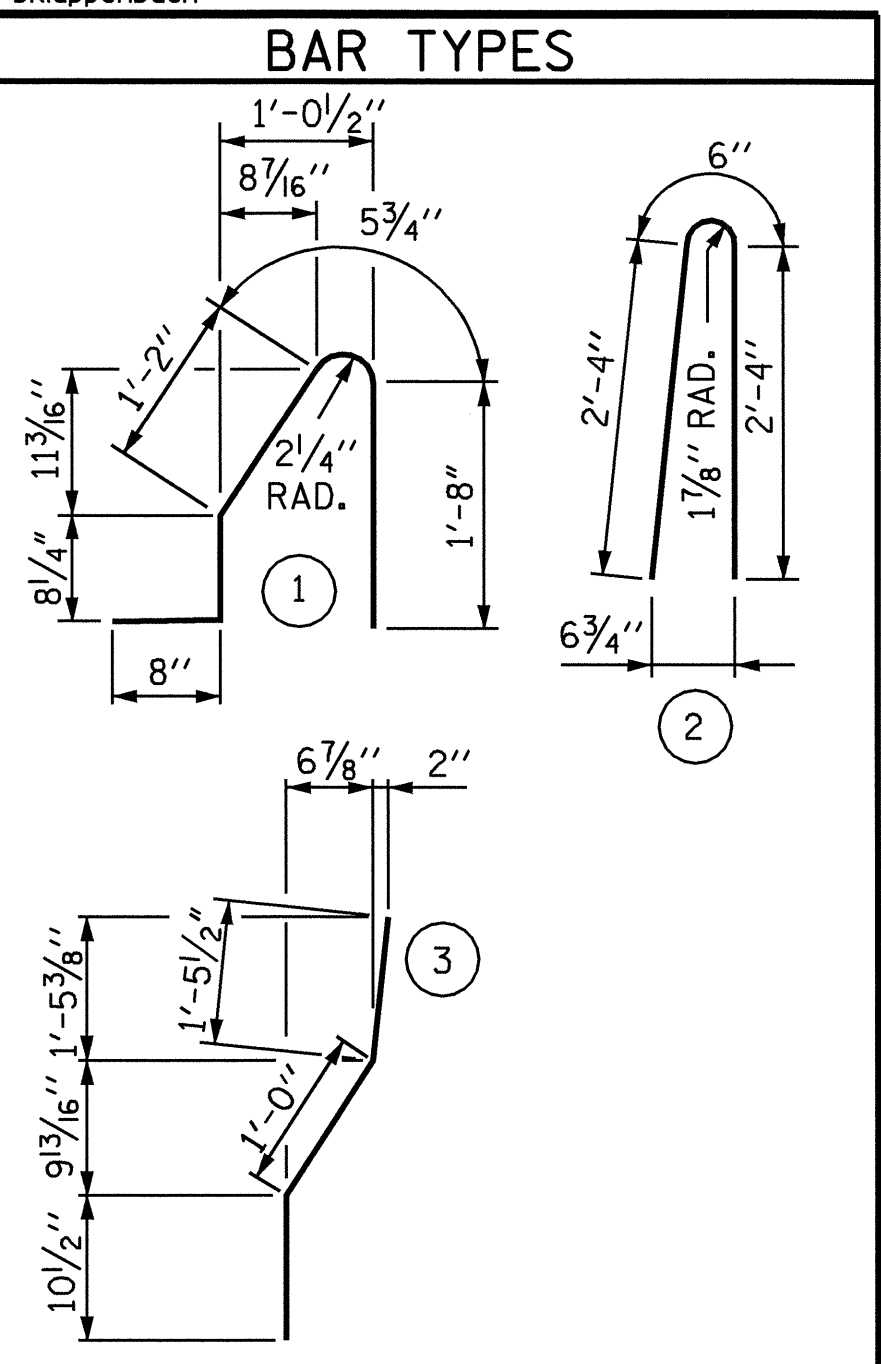
THE BARRIER RAIL IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THE UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

WHEN COMPRESSION JOINT SEAL OR EVAZOTE JOINT SEAL IS REQUIRED, 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.

THE #5 S3 AND #5 S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SPECIAL PROVISIONS. THE YIELD LOAD FOR THE #5 S3 AND #5 S4 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

VERTICAL 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 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.



ALL BAR DIMENSIONS ARE OUT TO OUT

**BILL OF MATERIAL**  
 FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* S1	250	#5	1	4'-8"	1217
* S2	250	#5	2	5'-2"	1347
* S3	6	#5	3	3'-4"	21
* S4	6	#5	STR	3'-2"	20
* B1	56	#5	STR	27'-7"	1611
* B2	14	#5	STR	6'-8"	97
* B3	14	#5	STR	12'-9"	186
* EPOXY COATED REINFORCING STEEL					4499
CLASS AA CONCRETE				25.6 CU. YDS.	
CONCRETE BARRIER RAIL				256.28 LTN. FT.	

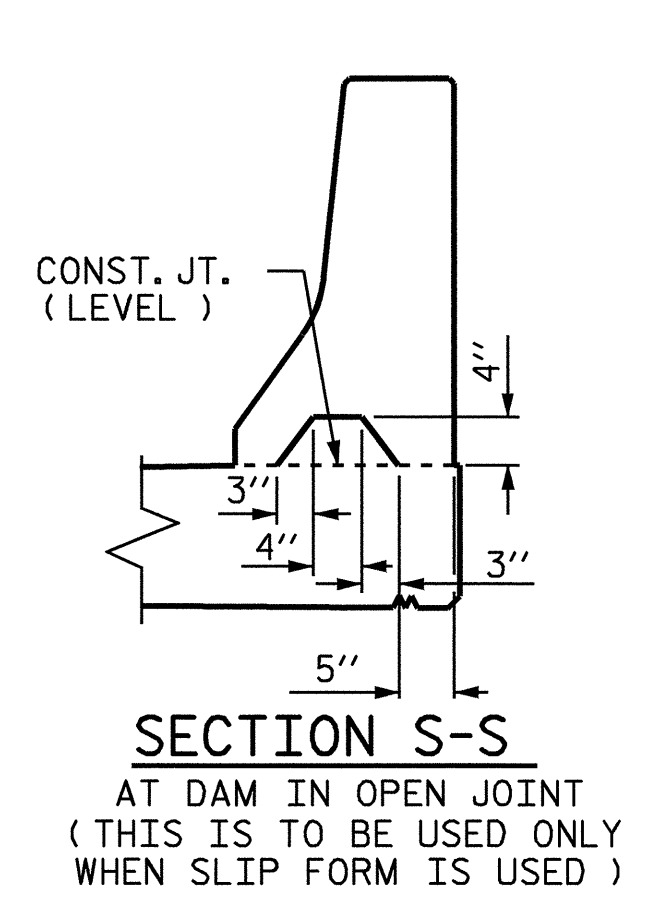
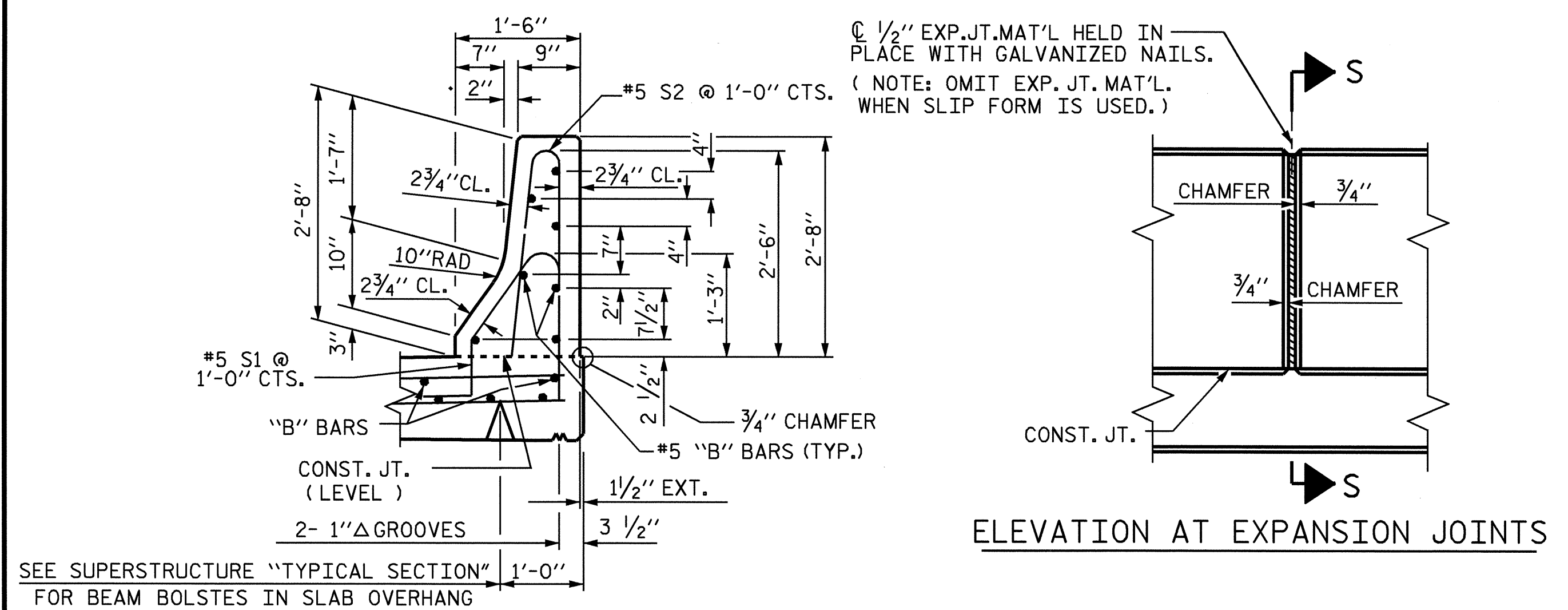
PROJECT NO. U-0620  
 CUMBERLAND COUNTY  
 STATION: 161+95.29 -L-

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**CONCRETE BARRIER RAIL (LEFT LANE)**

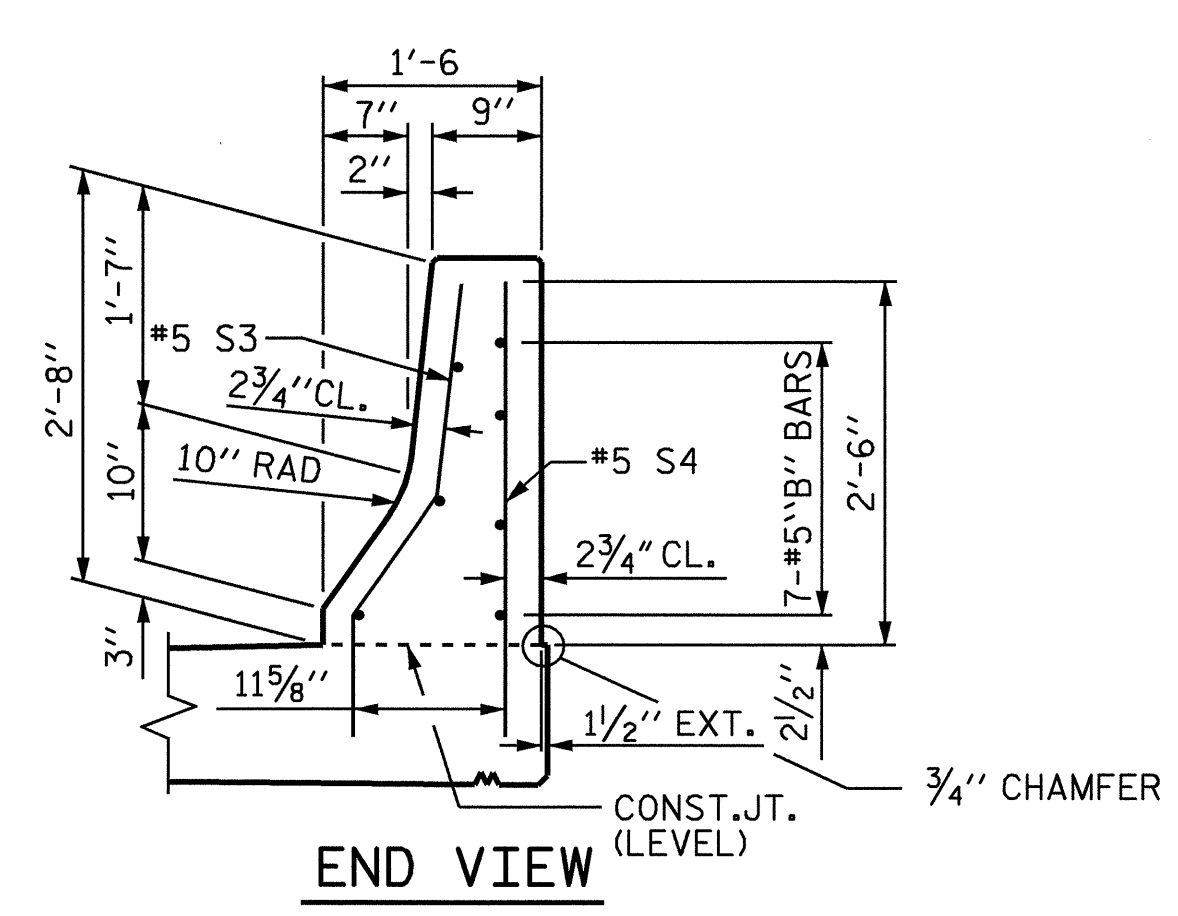
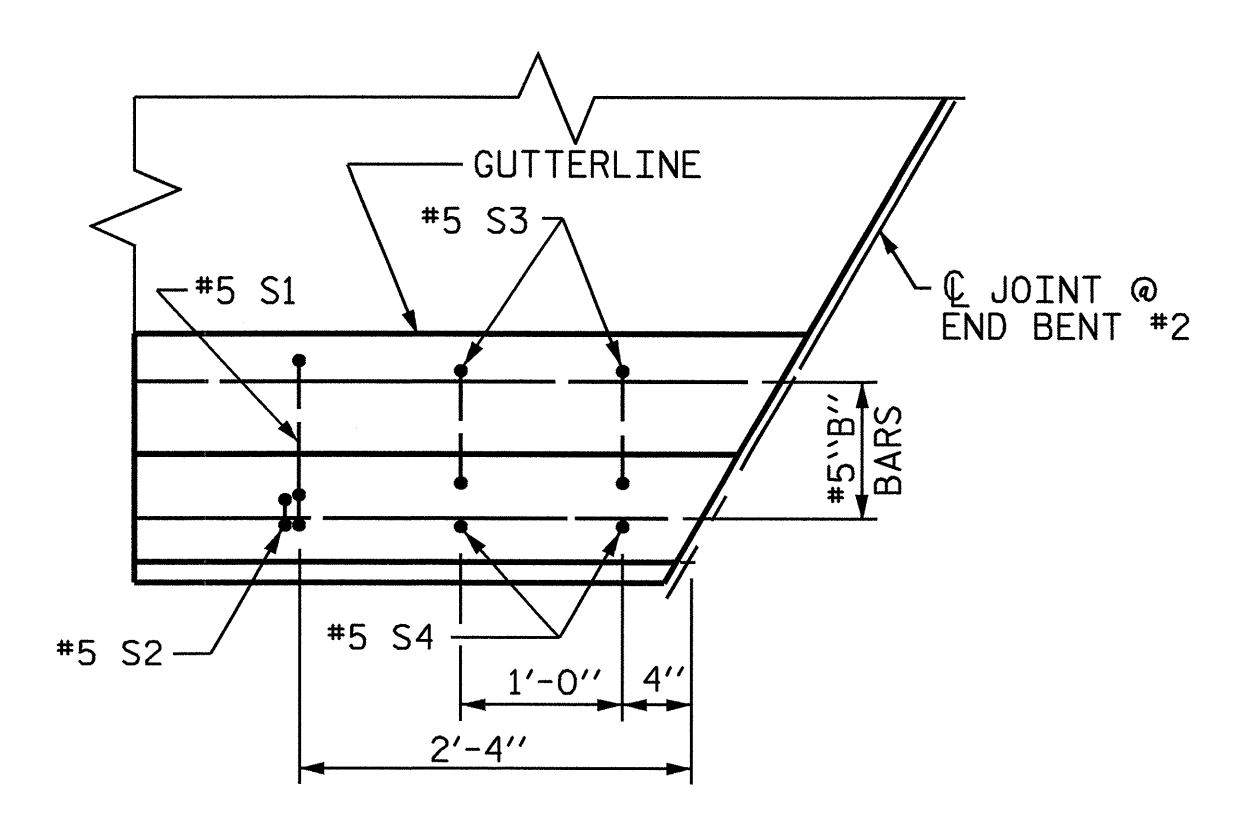
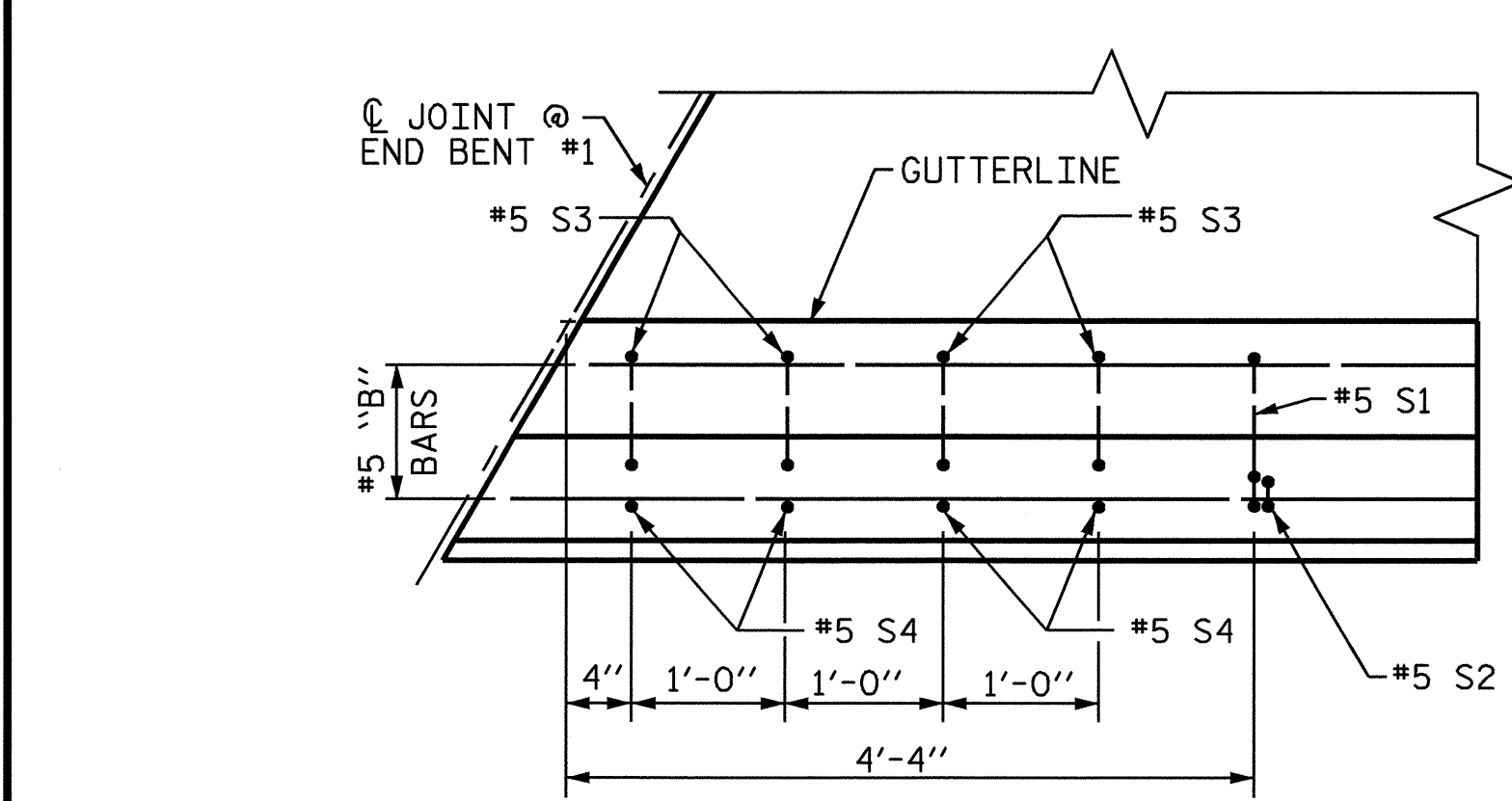
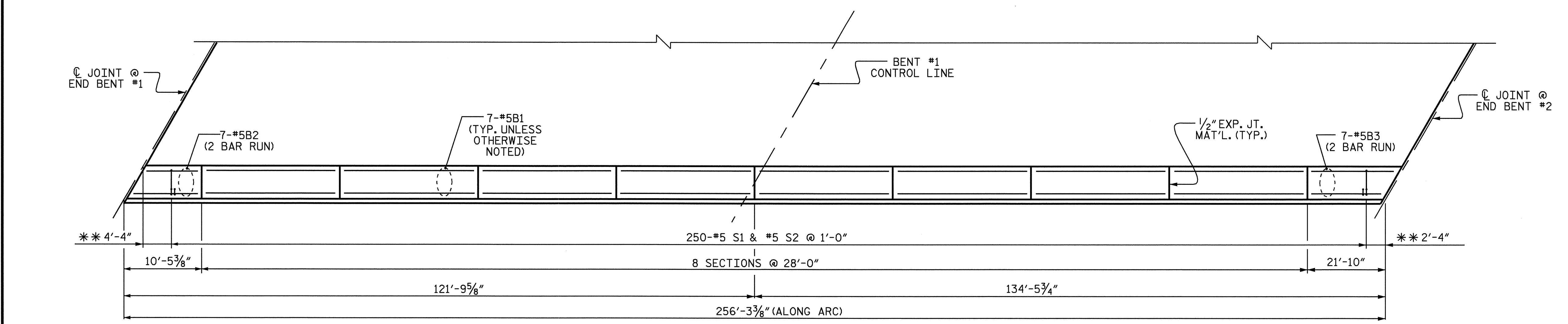
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	9-65
1			3			TOTAL SHEETS 129
2			4			

STR #2      STD NO CBRI



**BARRIER RAIL DETAILS**

**SECTION THRU RAIL**



**END OF RAIL DETAILS**  
 FOR ADHESIVE ANCHORING AT SAWED JOINTS

ASSEMBLED BY : M. G. SHAIKH	DATE : 10-29-03
CHECKED BY : D. A. GLADDEN	DATE : 12-23-03
DRAWN BY : ARB 5/87	REV. 7/17/98 RWW/LES
CHECKED BY : SJD 9/87	REV. 8/16/99 RWW/LES
	REV. 10/17/00R RWW/LES

