

**NOTES**

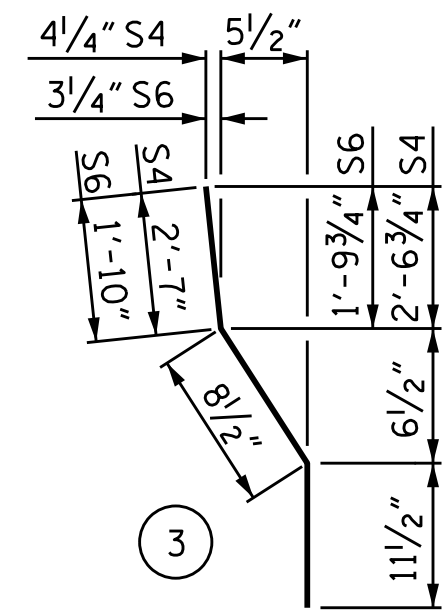
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

\*\* THE #5 S4, S5, S6 & S7 BARS SHALL BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM. THE YIELD LOAD FOR THE #5 S4, S5, S6, & S7 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BOND SYSTEM IS NOT REQUIRED.

REINFORCING BARS IN THE RAIL MAY BE FIELD CUT TO AVOID DRAIN SLOTS.

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**

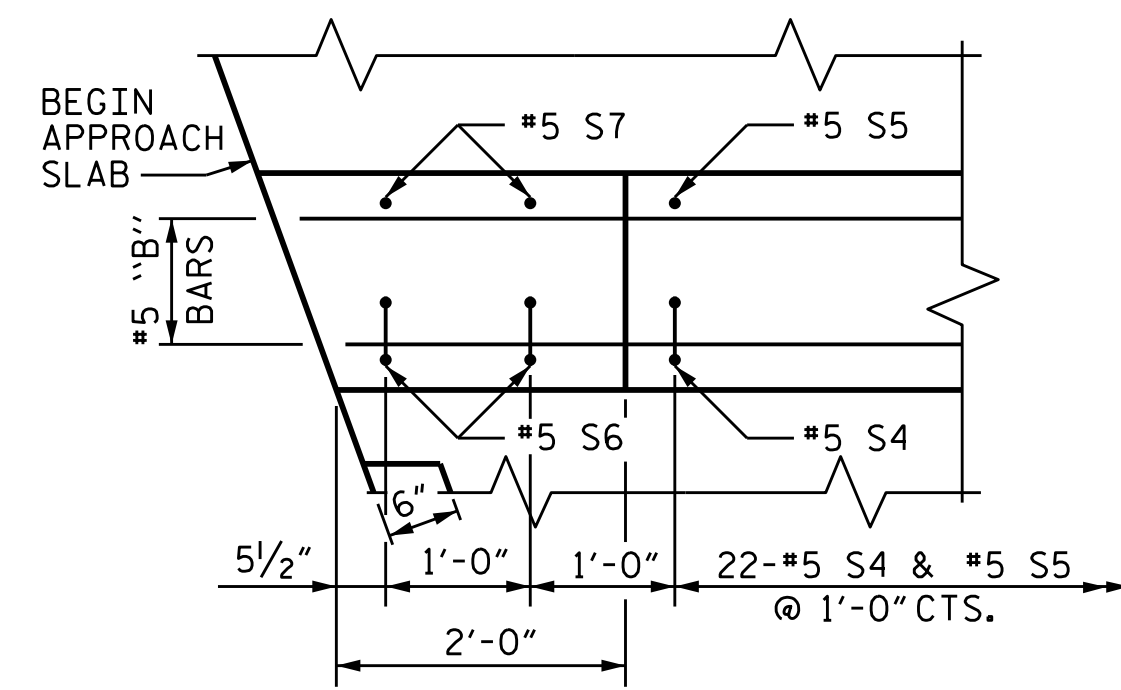
**FOR CONCRETE BARRIER RAIL**

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B3	22	#5	STR	24'-7"	564
* S4	44	#5	3	4'-3"	195
* S5	44	#5	STR	4'-1"	187
* S6	4	#5	3	3'-6"	15
* S7	4	#5	STR	3'-4"	14

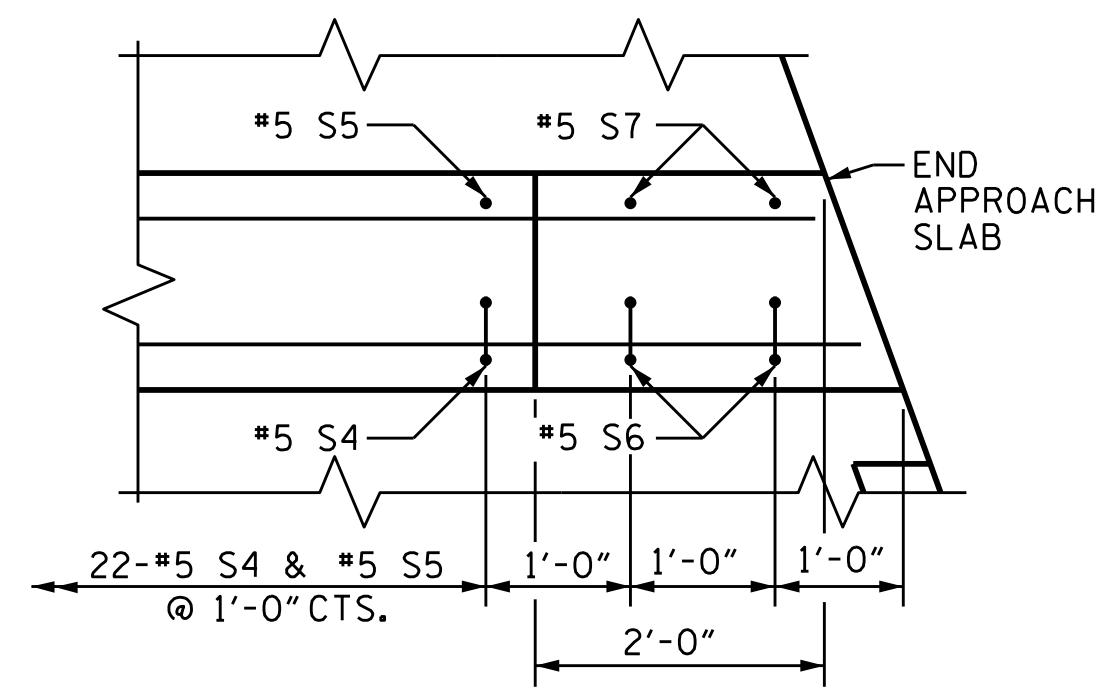
\* EPOXY COATED REINFORCING STEEL LBS. 975

CLASS AA CONCRETE BARRIER RAIL = C.Y. 7.0

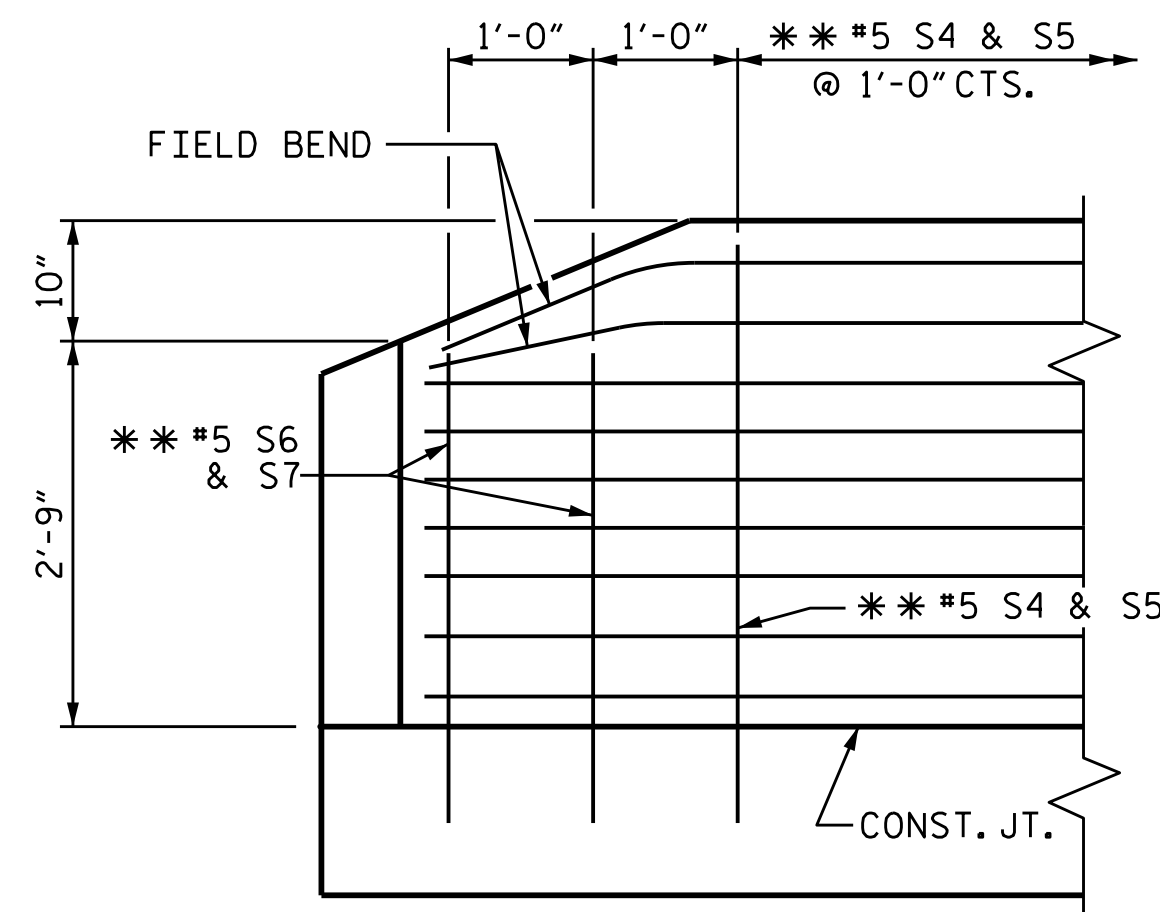
CONCRETE BARRIER RAIL = LIN. FT. 50.0



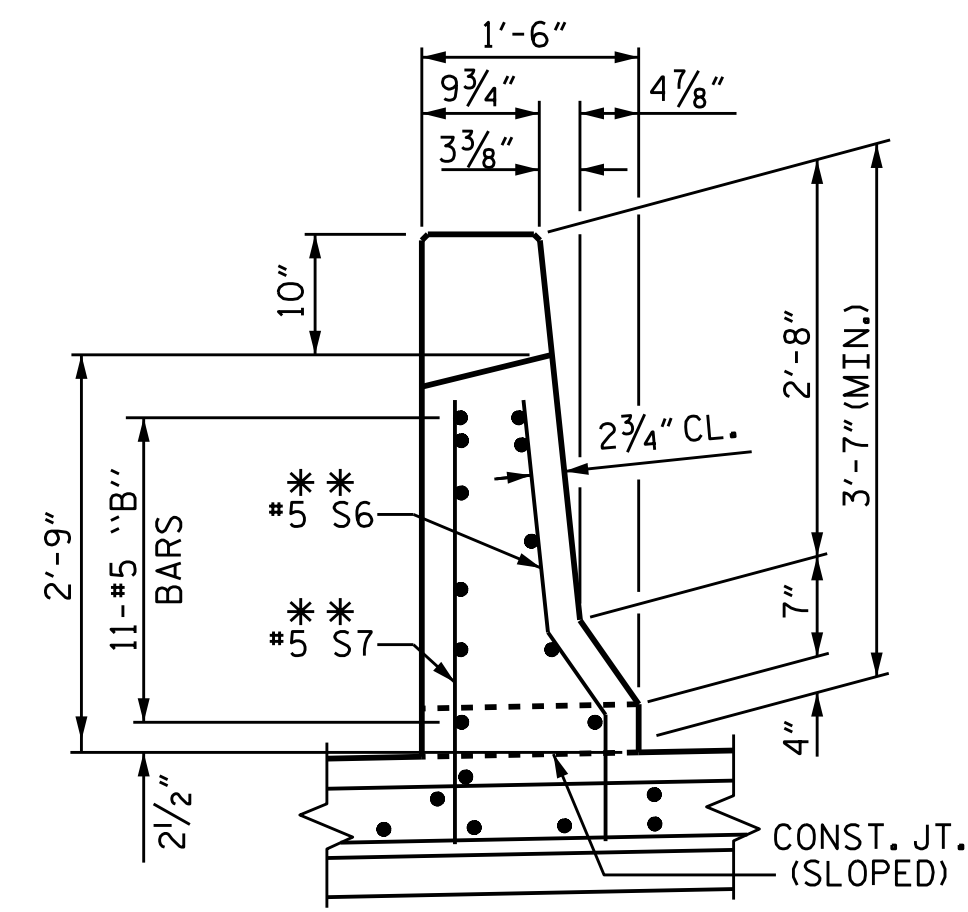
**PLAN AT END BENT 1**



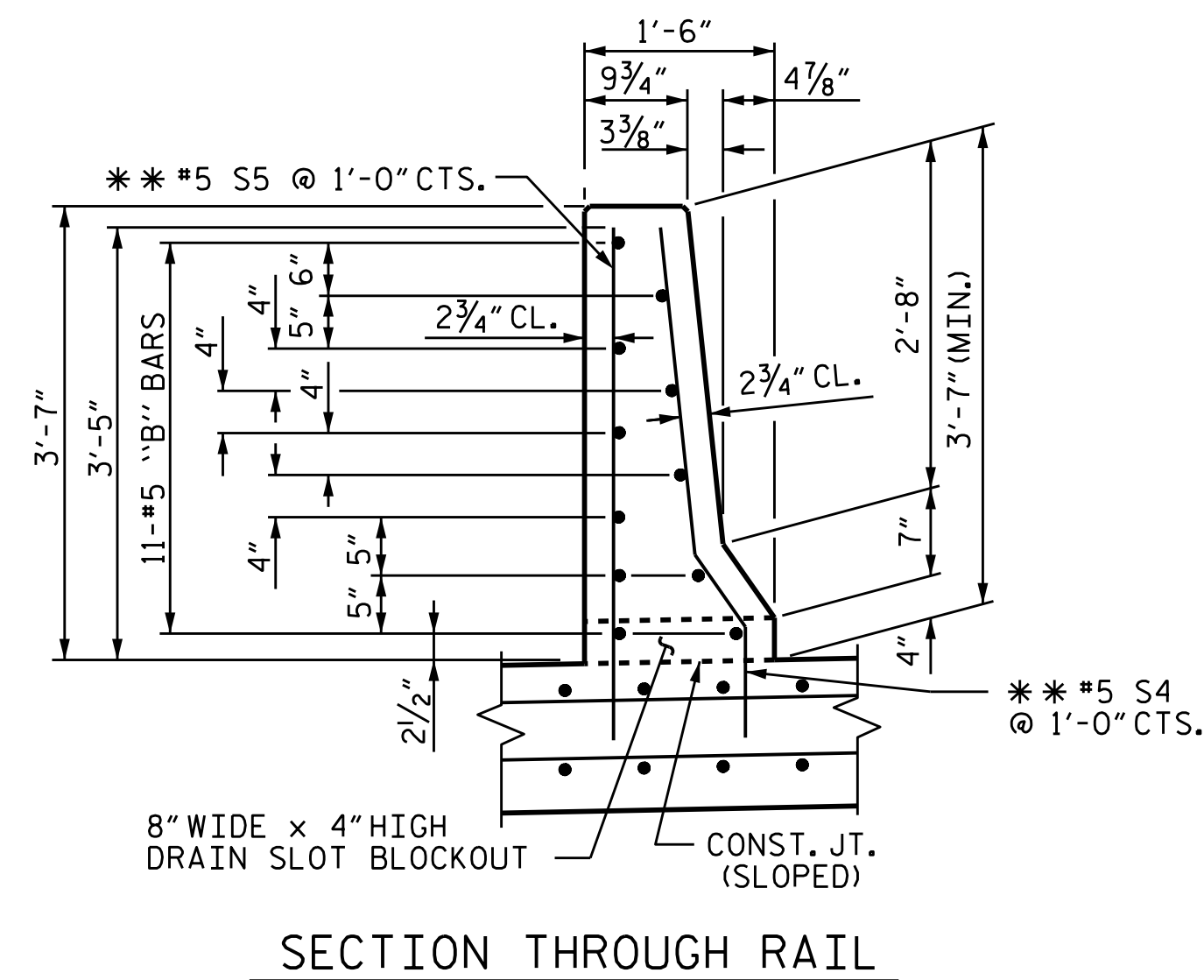
**PLAN AT END BENT 2**



**SIDE VIEW**



**END VIEW**

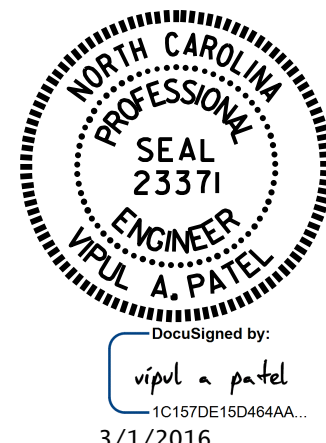


**SECTION THROUGH RAIL**

**END OF RAIL DETAILS**

PROJECT NO. B-5123  
CABARRUS COUNTY  
 STATION: 21+44.10 -L-

SHEET 3 OF 3



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**BRIDGE APPROACH SLAB DETAILS**

(LEFT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-37
1			3			TOTAL SHEETS
2			4			74

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY : K. D. LAYNE DATE : 8/25/15  
 CHECKED BY : N. D'AIUTO DATE : 9/10/15

01-MAR-2016 10:50  
 R:\Structures\Plans\Str01\B5123\_SD\_AS\_01.dgn  
 ndaluto

STR. #1