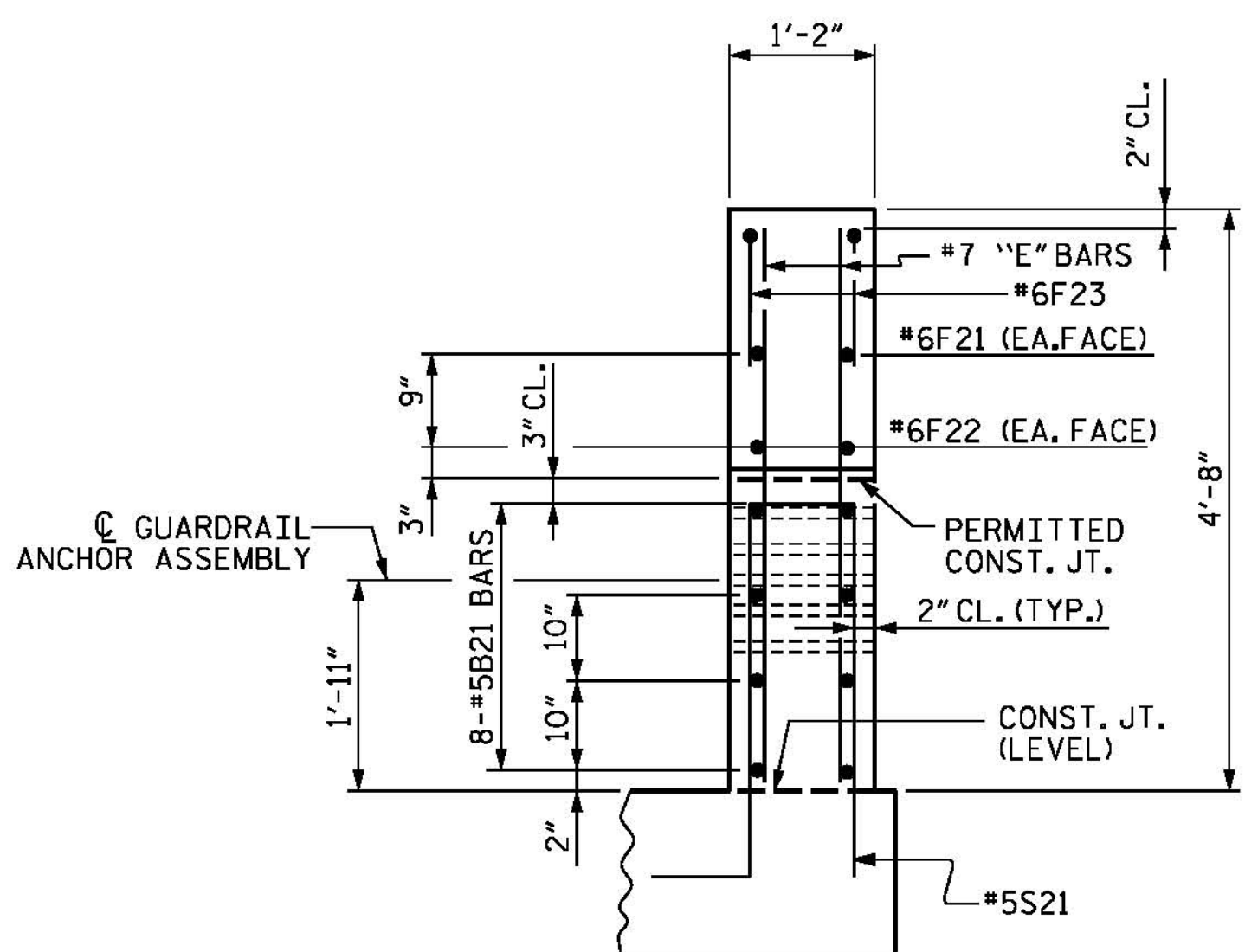
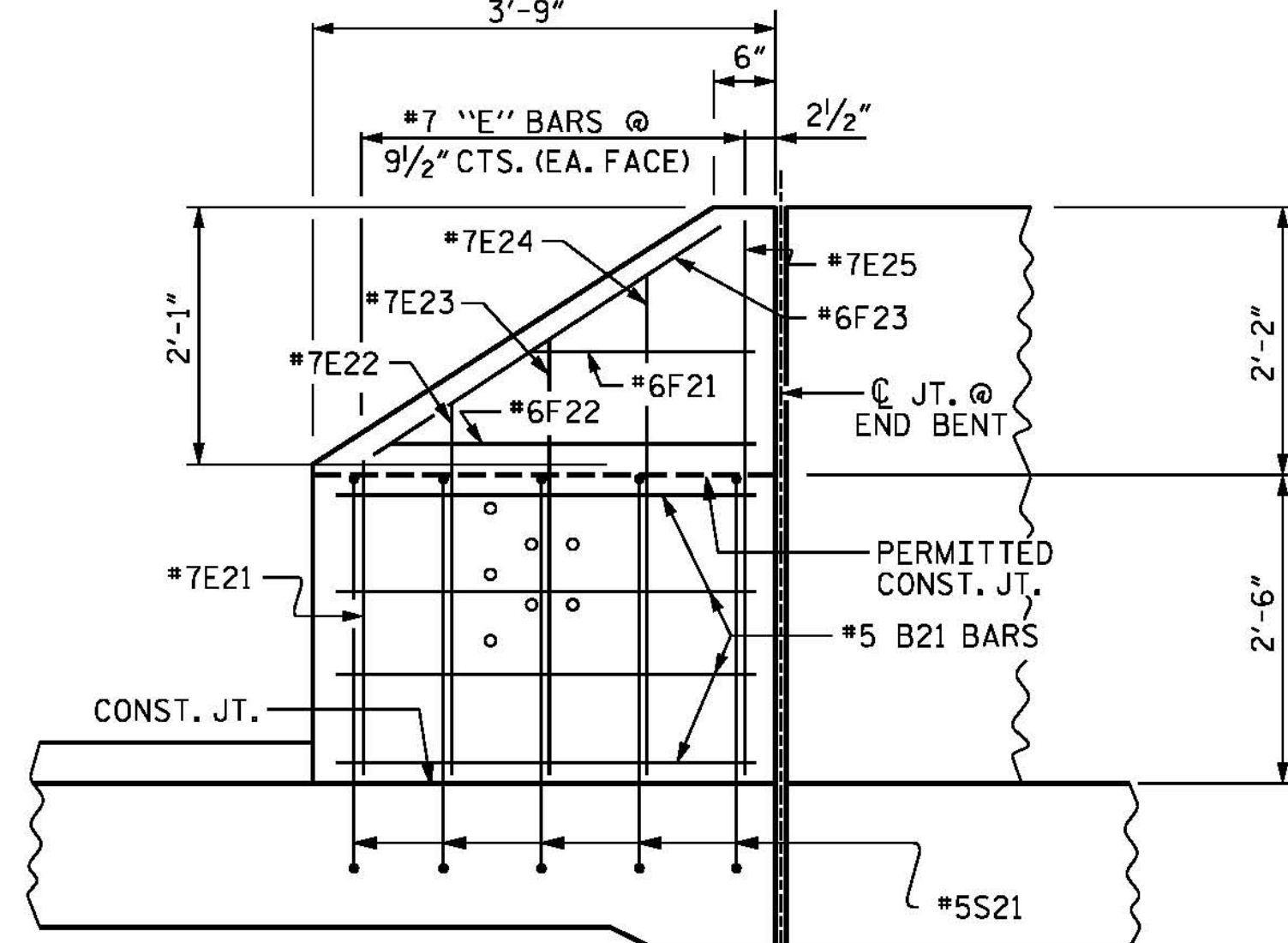


VERT. CONC. BARRIER RAIL AND END POST PLAN ON APPROACH SLAB

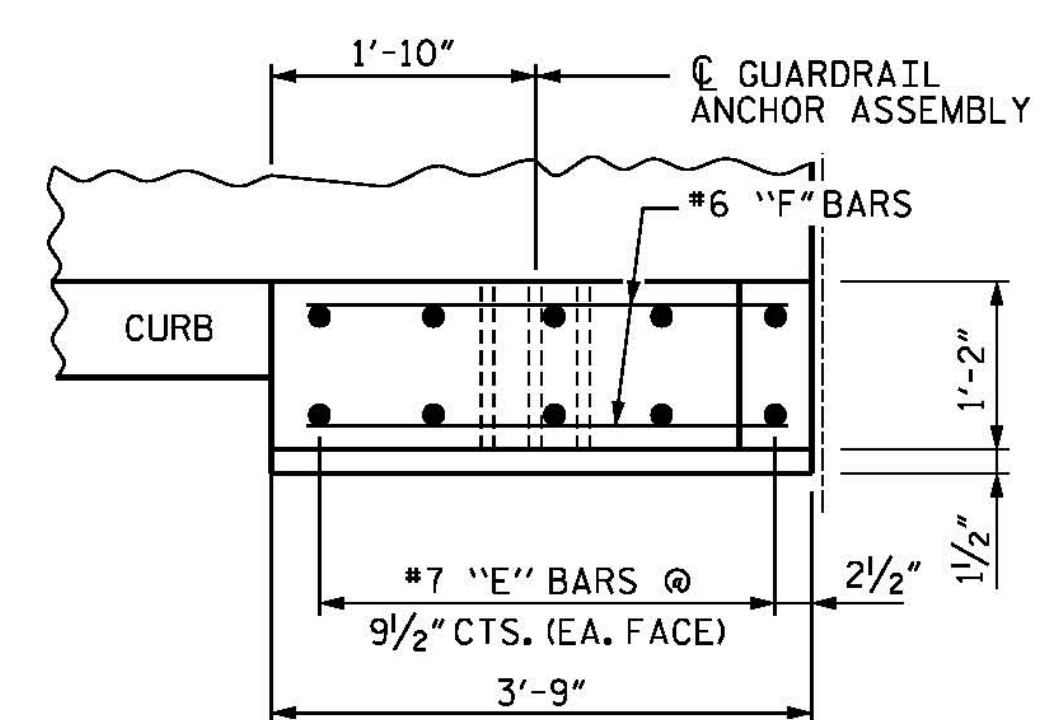
(APPROACH SLAB @ END BENT 1 SHOWN, APPROACH SLAB @ END BENT 2 SIMILAR.)



END VIEW



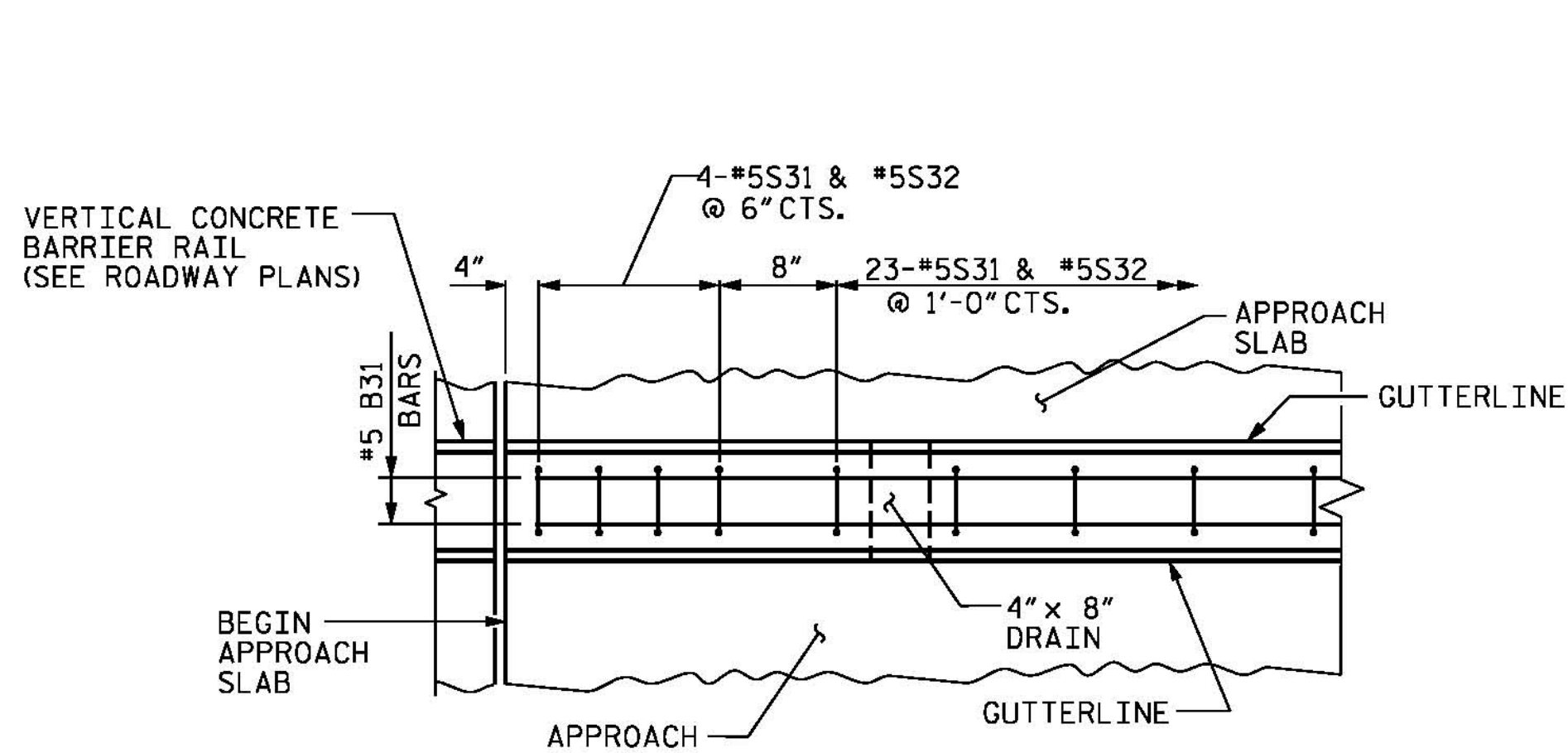
ELEVATION



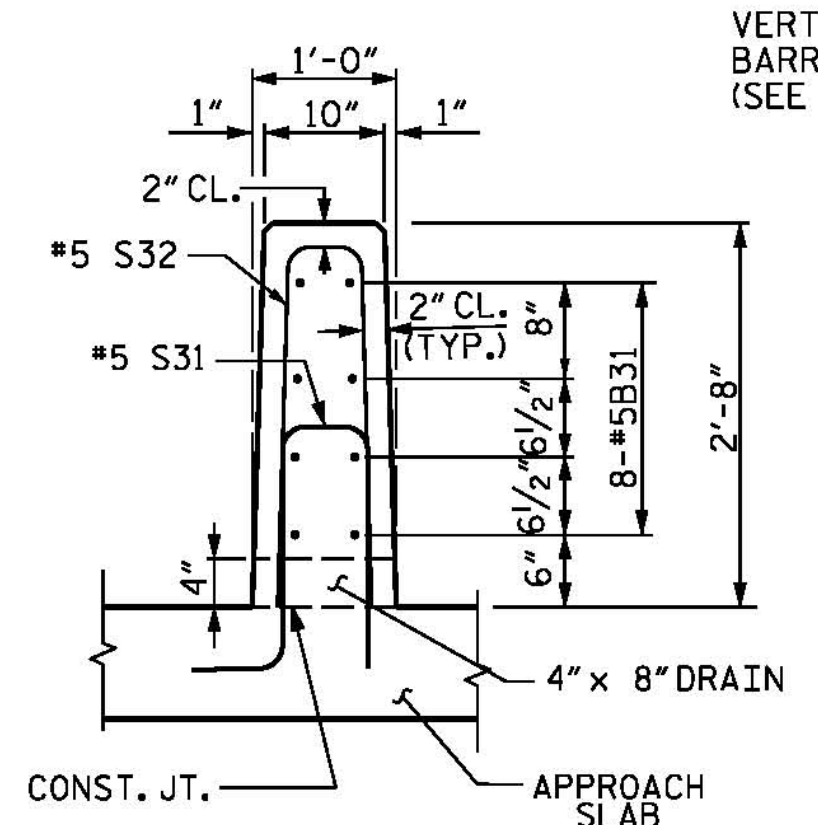
PLAN OF END POST

END POST FOR TWO BAR METAL RAIL

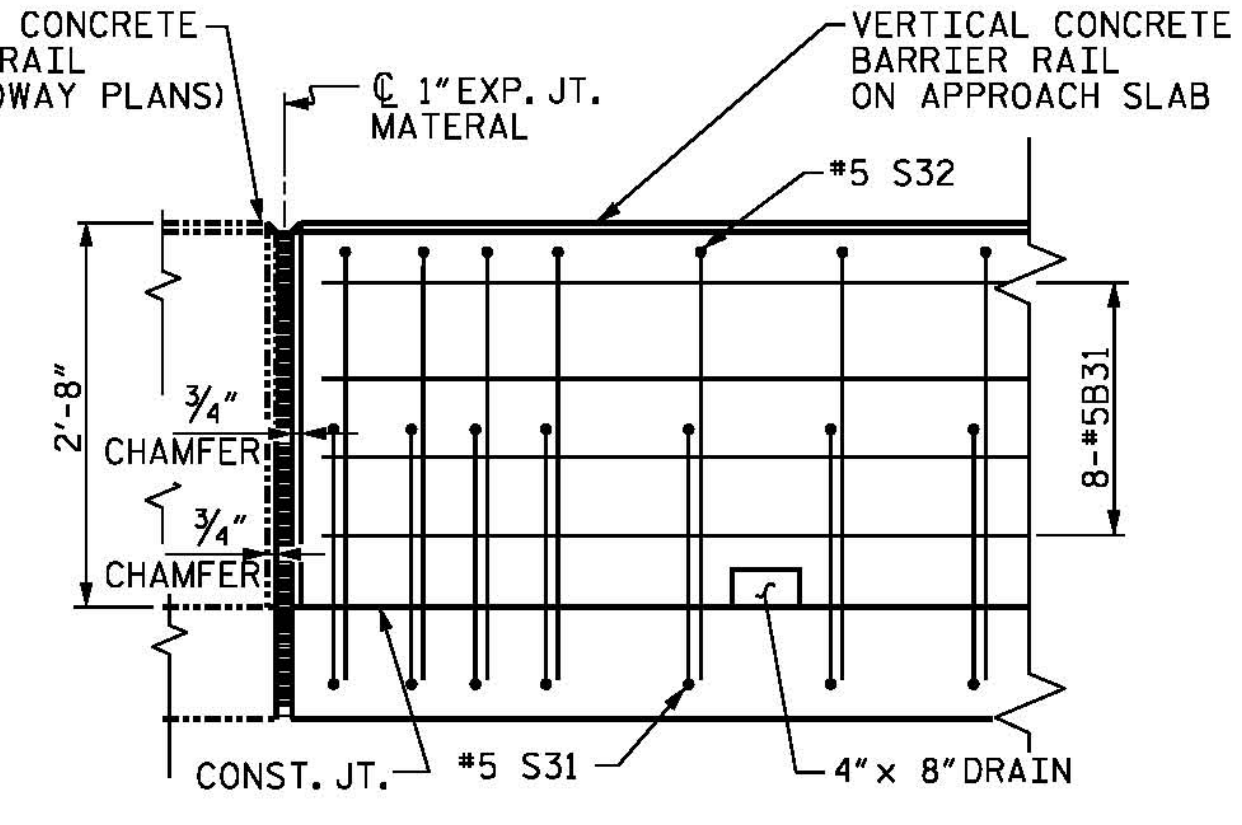
(APPROACH SLAB @ END BENT 1 SHOWN, APPROACH SLAB @ END BENT 2 SIMILAR.)



PLAN



ELEVATION



SIDE VIEW

VERTICAL CONCRETE BARRIER RAIL ON APPROACH SLAB

(APPROACH SLAB @ END BENT 1 SHOWN, APPROACH SLAB @ END BENT 2 SIMILAR.)

NOTES

THE COST OF THE VERTICAL CONCRETE BARRIER RAIL ON THE APPROACH SLABS SHALL BE INCLUDED IN THE LINEAR FOOT CONTRACT PRICE BID FOR "VERTICAL CONCRETE BARRIER RAIL".

THE VERTICAL CONCRETE BARRIER RAIL, END POST AND 1'-0" x 1'-0" CURB ON EACH APPROACH SLAB SHALL NOT BE CAST UNTIL ALL APPROACH SLAB CONCRETE HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN THE VERTICAL CONCRETE BARRIER RAILS, END POSTS, APPROACH SLABS AND CURBS SHALL BE EPOXY COATED.

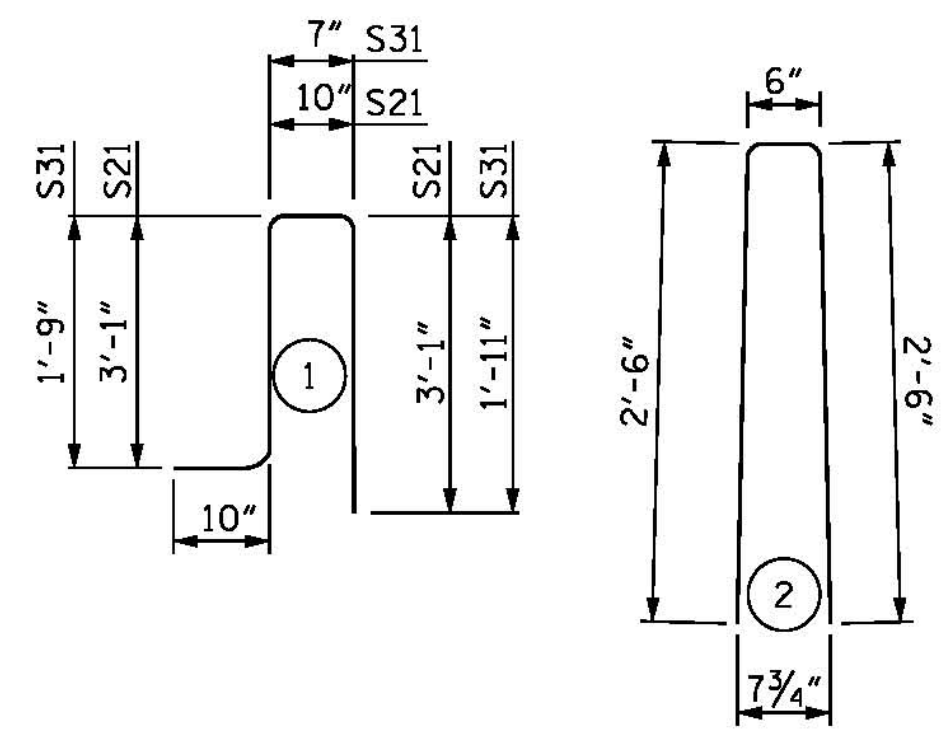
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE VERTICAL CONCRETE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN VERTICAL CONCRETE BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF VERTICAL CONCRETE BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

THE COST OF THE END POST ON THE APPROACH SLABS SHALL BE INCLUDED IN THE LINEAR FOOT CONTRACT PRICE BID FOR "1'-2" x 2'-6" CONCRETE PARAPET".

SEE EXPANSION JOINT SEAL DETAILS SHEETS FOR ADDITIONAL INFORMATION. STEEL REINFORCEMENT IN THE END POST MAY BE SHIFTED SLIGHTLY AS NECESSARY TO ACCOMMODATE JOINT SEAL DETAILS.

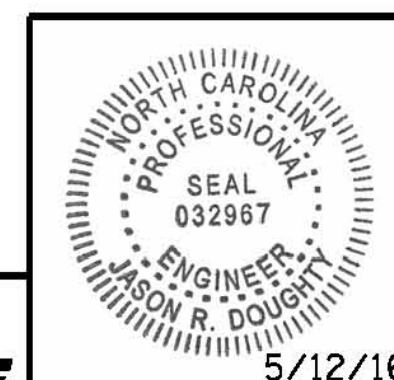
BILL OF MATERIAL FOR END POST (ONE END POST ONLY)						BILL OF MATERIAL FOR VERTICAL CONCRETE BARRIER RAIL AT END BENT 1 (END BENT 2 SIMILAR)					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B21	8	#5	STR	3'-5"	29	B31	8	#5	STR	24'-8"	206
E21	2	#7	STR	2'-6"	10	S31	27	#5	1	5'-1"	143
E22	2	#7	STR	3'-0"	12	S32	27	#5	2	5'-6"	155
E23	2	#7	STR	3'-6"	14						
E24	2	#7	STR	4'-0"	16						
E25	2	#7	STR	4'-4"	18						
F21	2	#6	STR	1'-10"	6						
F22	2	#6	STR	3'-0"	9						
F23	2	#6	STR	3'-9"	11						
S21	5	#5	1	7'-10"	41						
EPOXY COATED REINFORCING STEEL						EPOXY COATED REINFORCING STEEL					
LBS. 166						LBS. 504					
CLASS AA CONCRETE						CLASS AA CONCRETE					
C. Y. 0.8						C. Y. 2.3					
1'-2" x 2'-6" CONCRETE PARAPET						VERTICAL CONCRETE BARRIER RAIL					
L.F. 3.75						L.F. 25					

BAR TYPE



ALL BAR DIMENSIONS ARE OUT-TO-OUT

PROJECT NO. **B-4929**
PENDER COUNTY
 STATION: **38+13.81 -L2-**
 SHEET 3 OF 3



PARSONS BRINCKERHOFF
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 LICENSE NO. F-0165

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
**BRIDGE APPROACH
 SLAB DETAILS**

DESIGNED BY: E. DAVIS	DATE: JAN. 2016
DRAWN BY: B. CALDWELL	DATE: JAN. 2016
CHECKED BY: J. SHERMAN	DATE: FEB. 2016
DESIGN ENGINEER OF RECORD: J. DOUGHTY	DATE: MAY 2016
DRAWN BY: FCJ 11/88	REV. 10/11/11
CHECKED BY: ARB 11/88	REV. 7/12
	REV. 6/13
	MAA/GM
	MAA/GM
	MAA/GM

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-209	
1			3			TOTAL SHEETS 278	
2			4				

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**