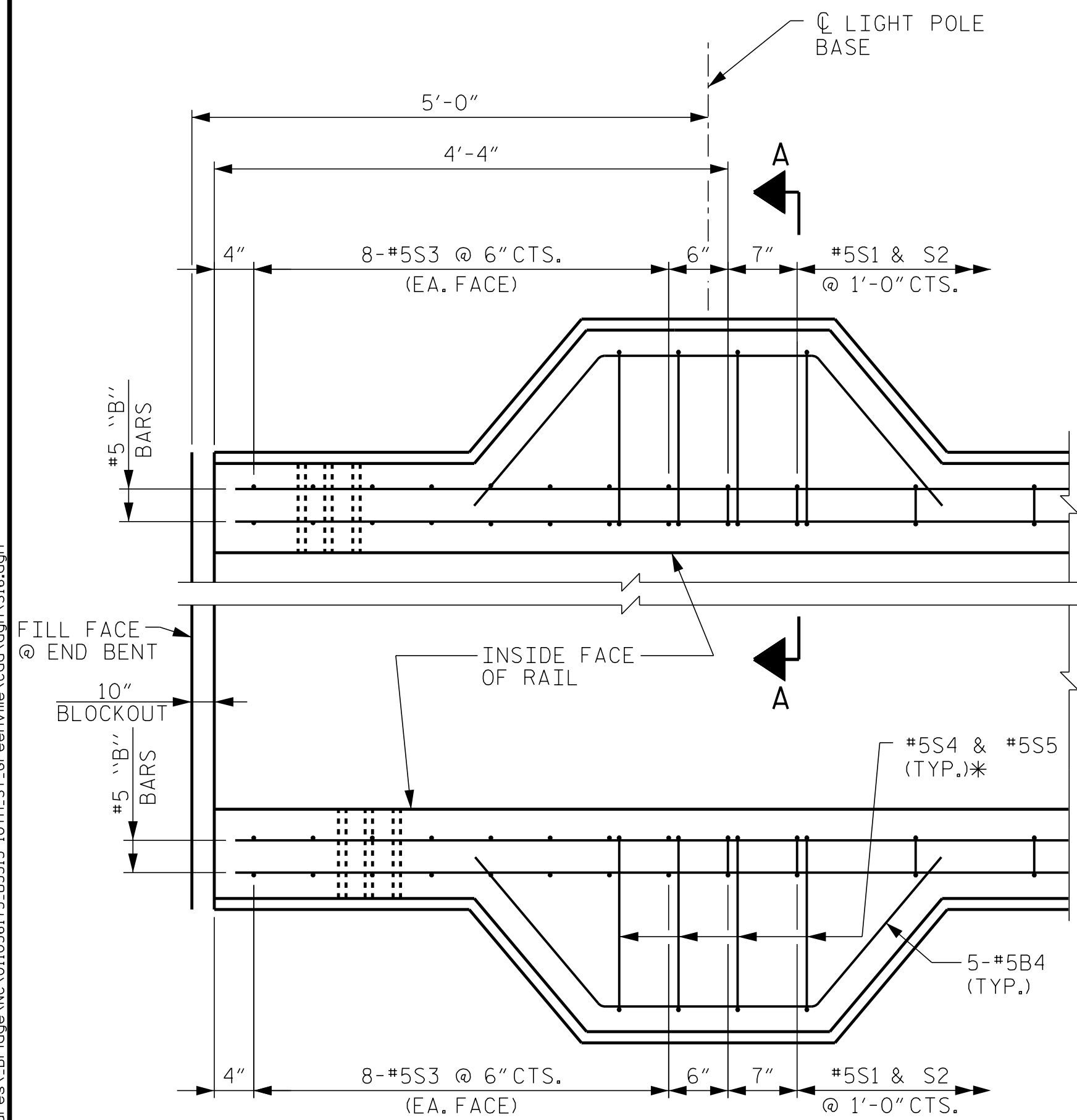


* SEE END OF RAIL DETAILS FOR REINFORCING @ RAIL ENDS.

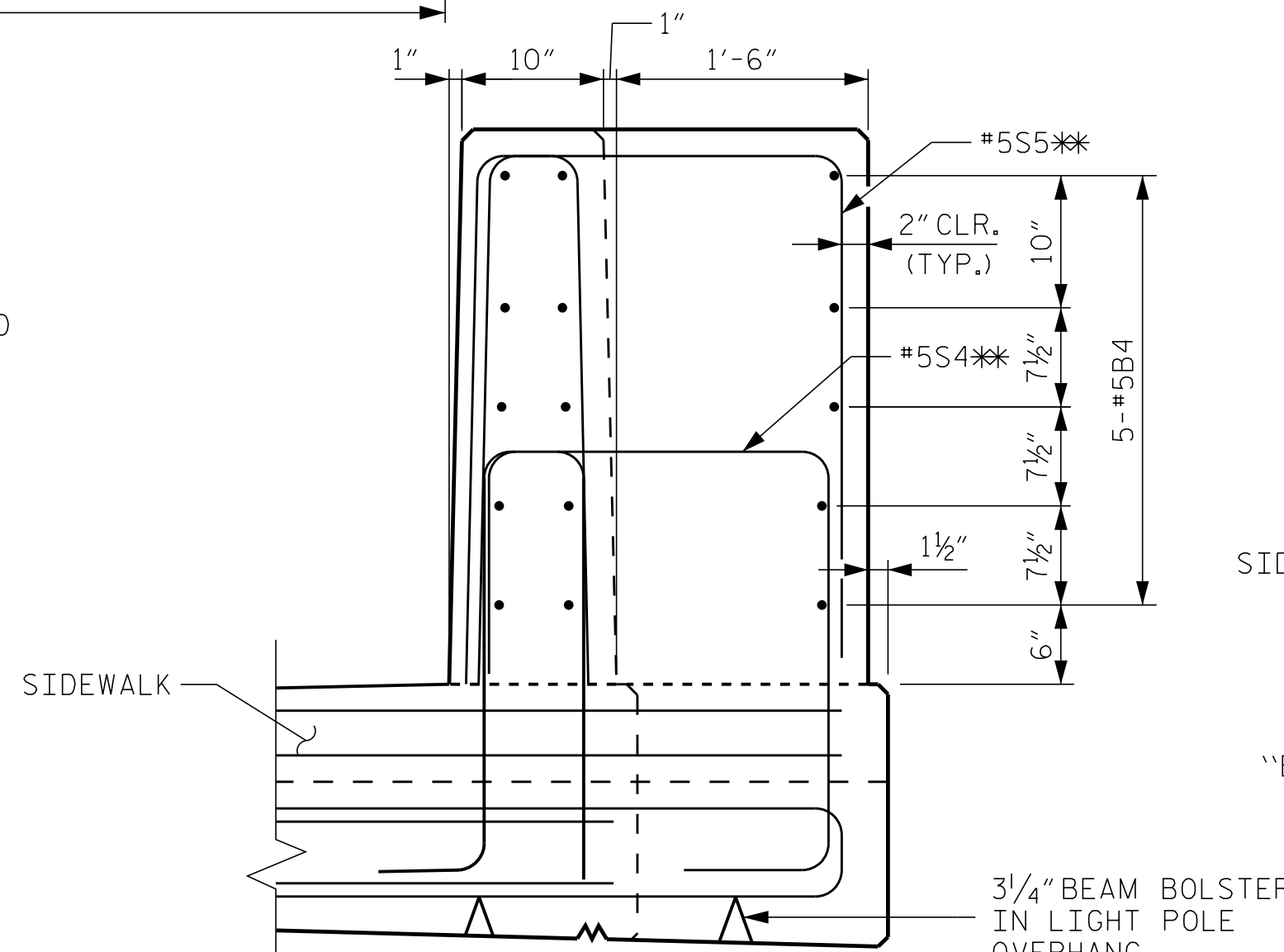
PLAN OF BARRIER RAIL

TRANSVERSE SCALE OF BARRIER RAIL IS EXAGGERATED



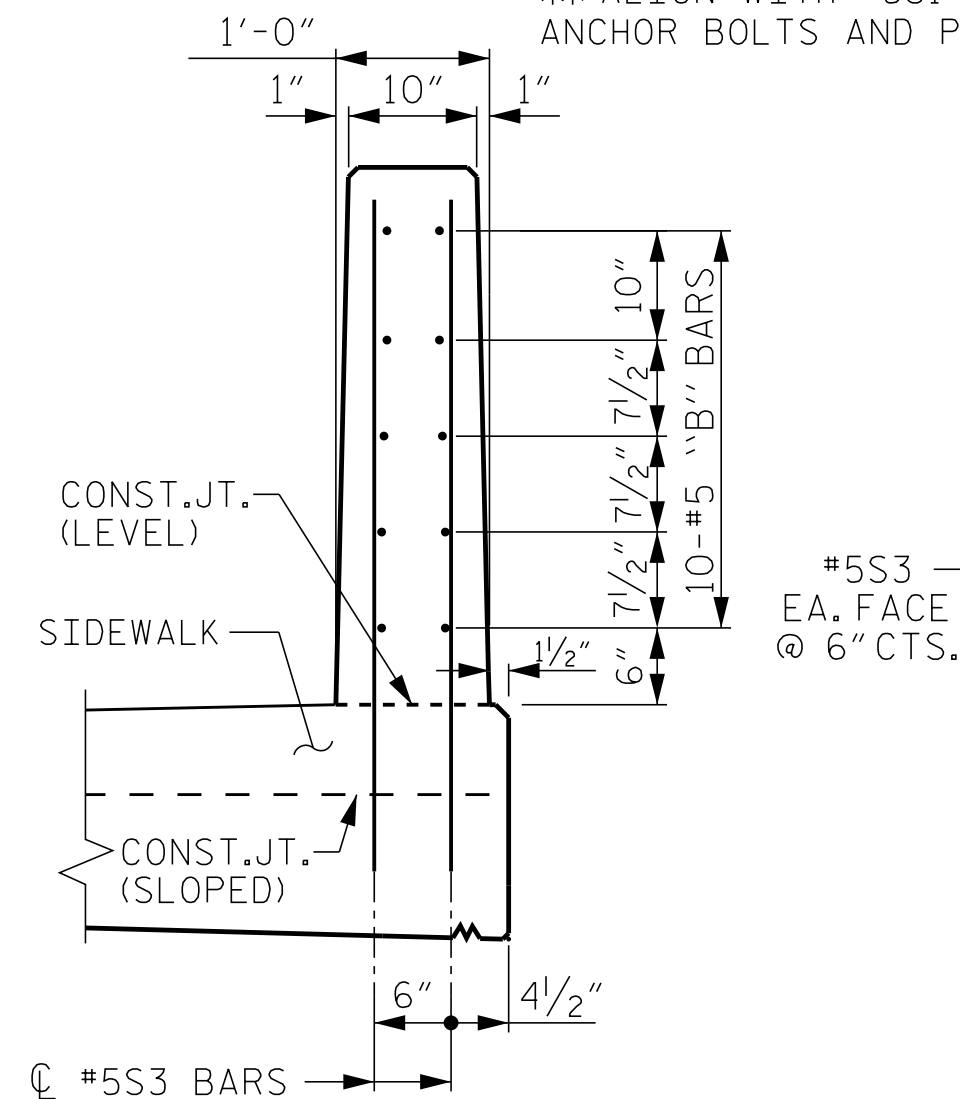
PLAN

* SPACED AS SHOWN

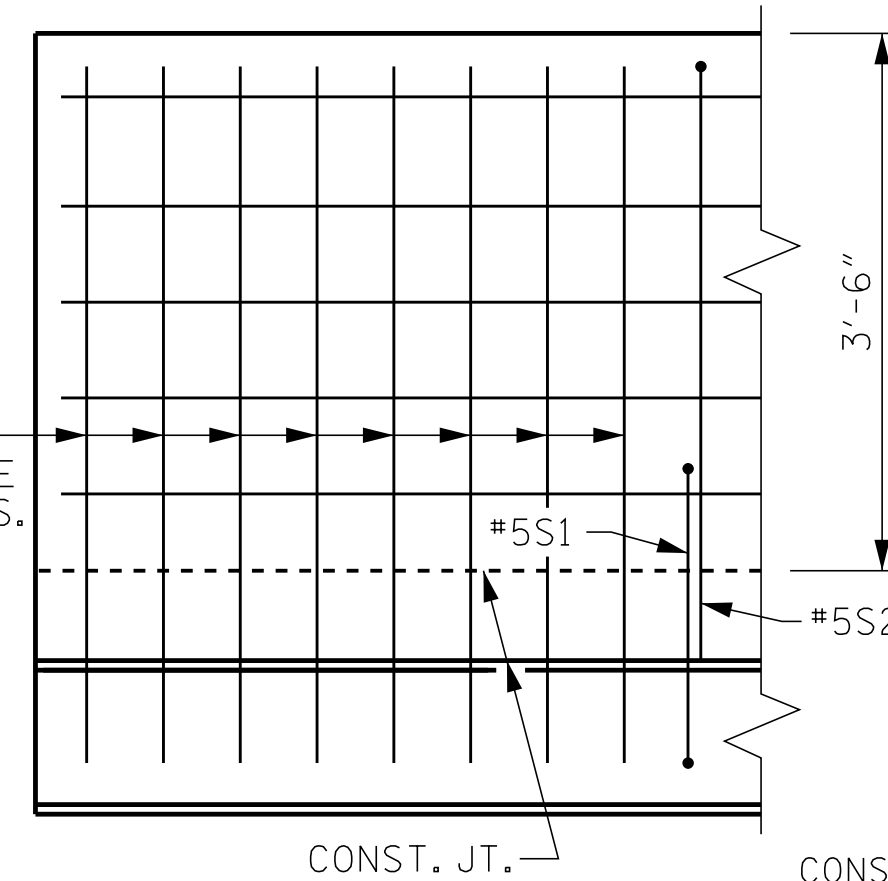


SECTION A-A

* ALIGN WITH #5S1 & #5S2 BARS IN BARRIER ANCHOR BOLTS AND PVC CONDUIT NOT SHOWN FOR CLARITY.



END VIEW



SIDE VIEW

NOTES

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

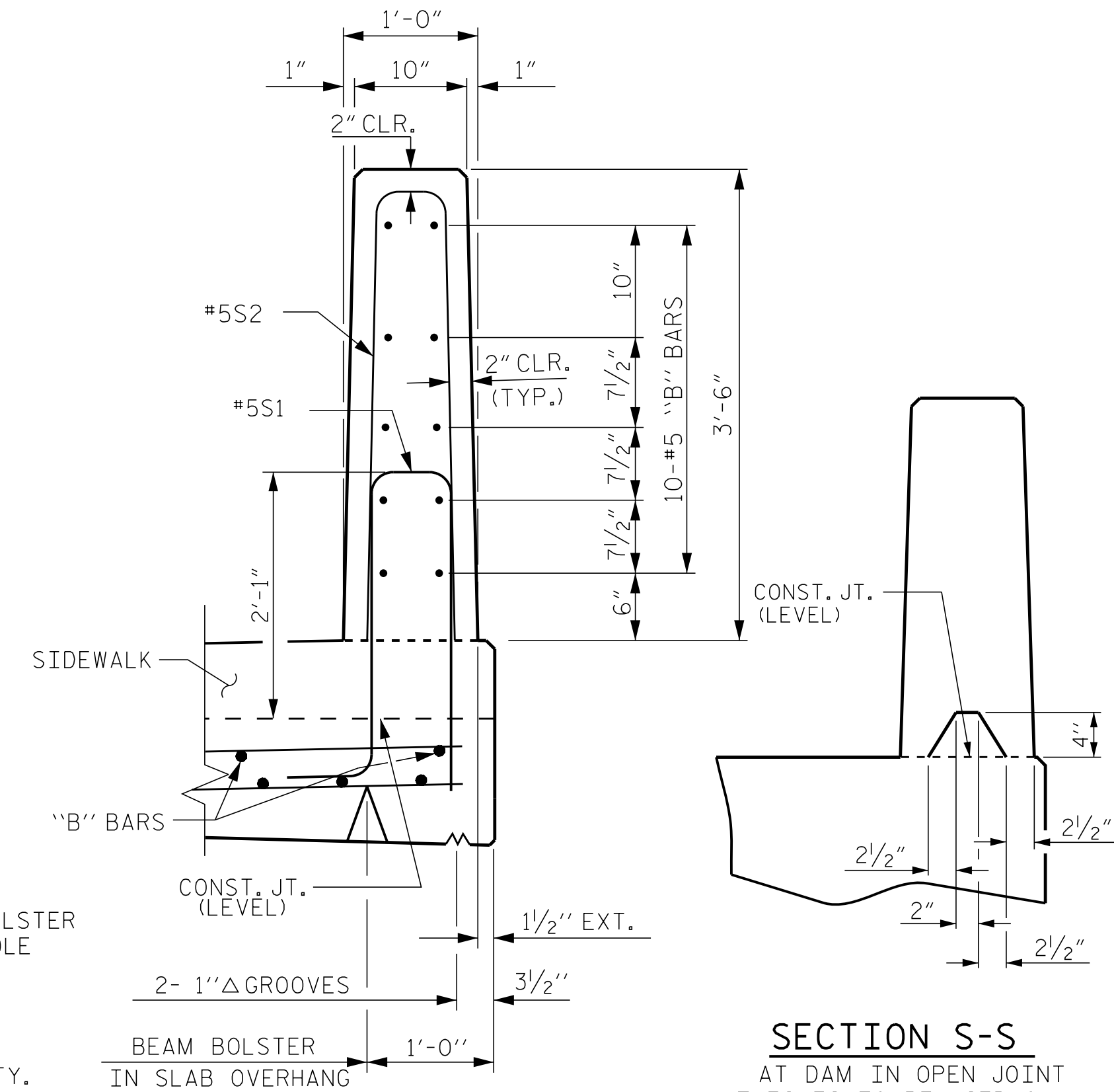
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S3 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5 S3 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

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.

ORNAMENTAL FENCE AND LIGHT POLES NOT SHOWN ON THIS SHEET FOR CLARITY. SEE "ORNAMENTAL FENCE DETAILS" SHEET FOR FENCE DETAILS, AND "LIGHT POLE DETAILS" SHEETS FOR DETAILS.

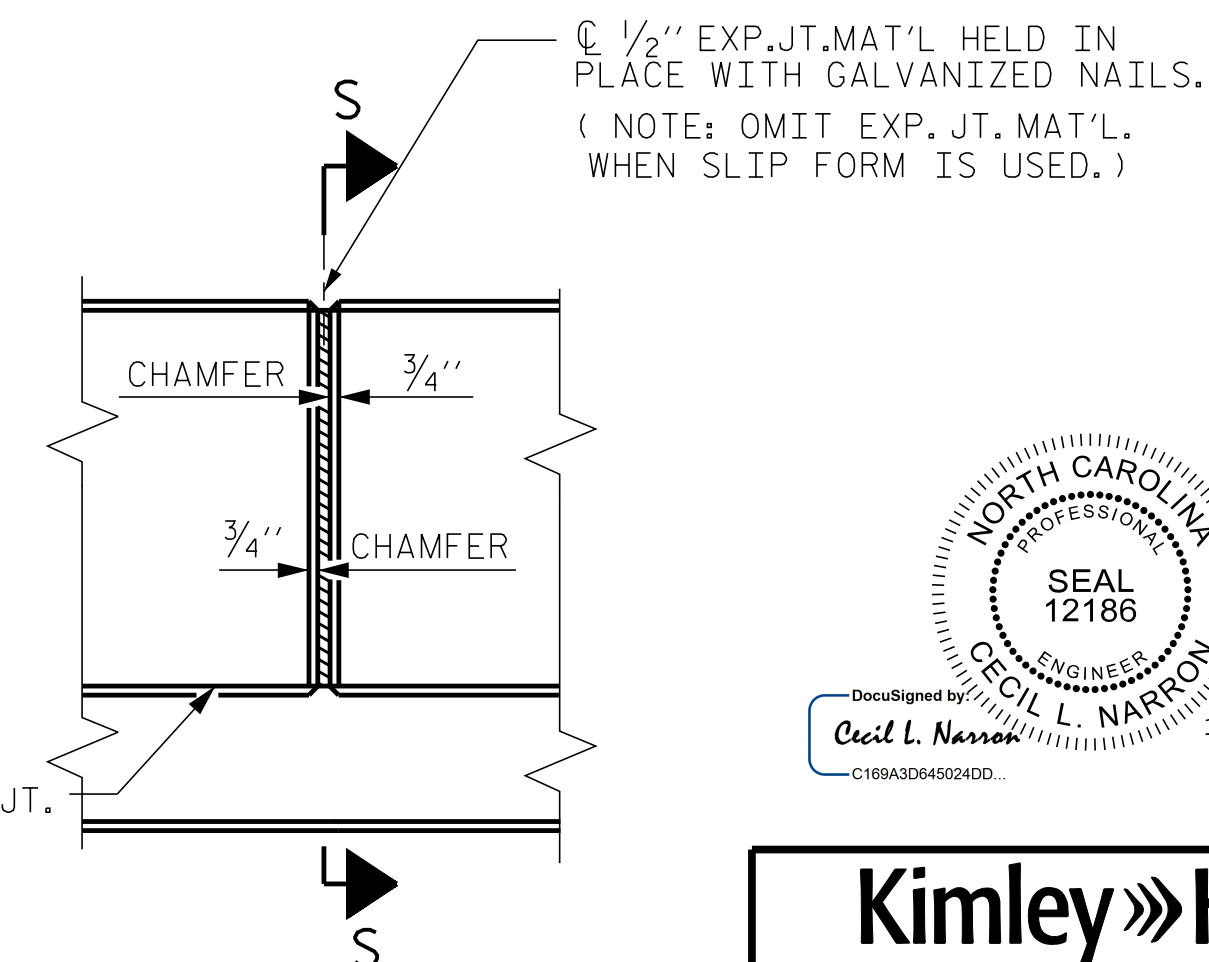
THE BARRIER RAIL AND EDGE OF SUPERSTRUCTURE SHALL BE PAINTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND "APPLICATION OF BRIDGE COATING" SPECIAL PROVISION.



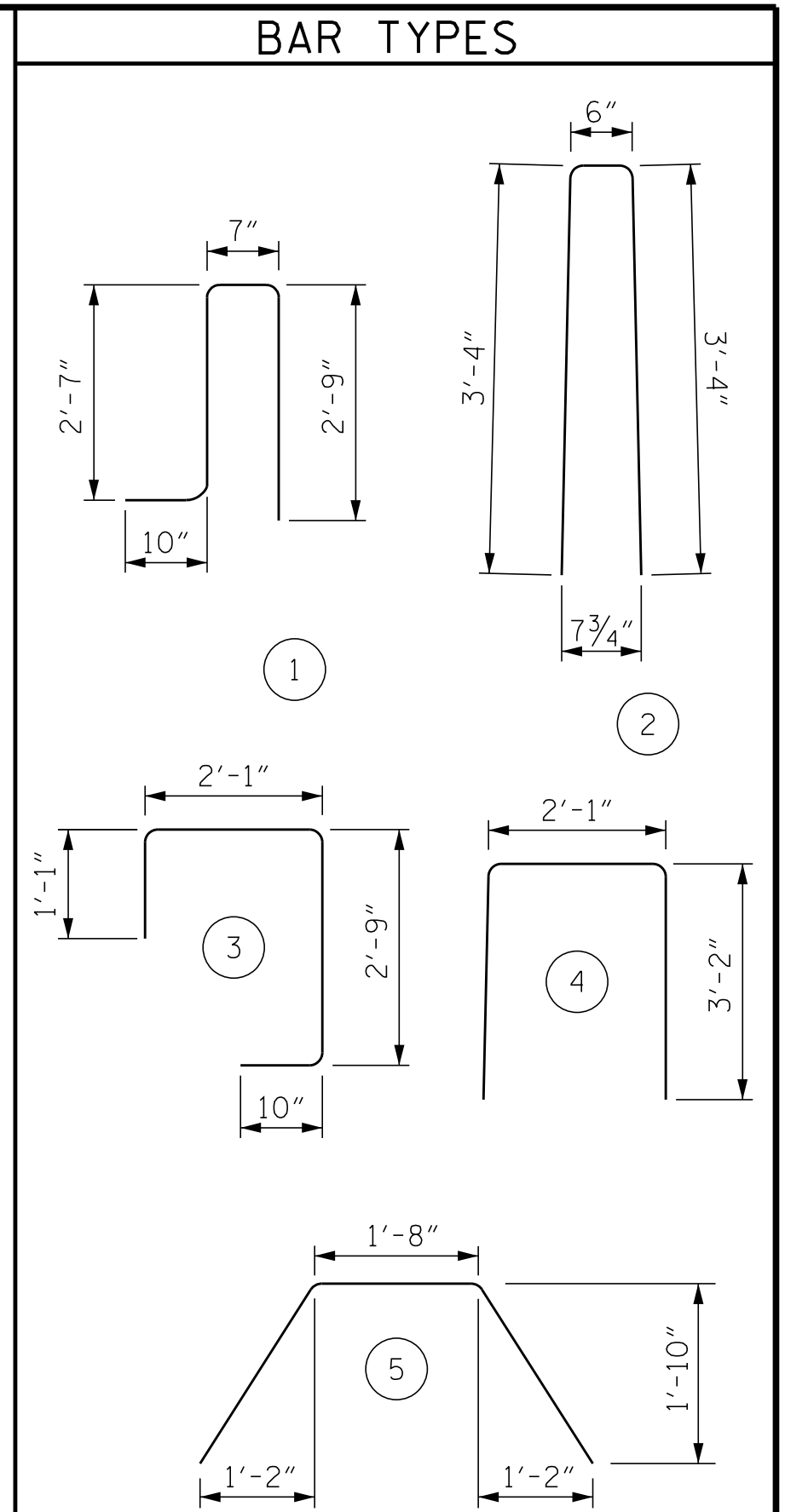
SECTION THRU RAIL

SECTION S-S

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



ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT

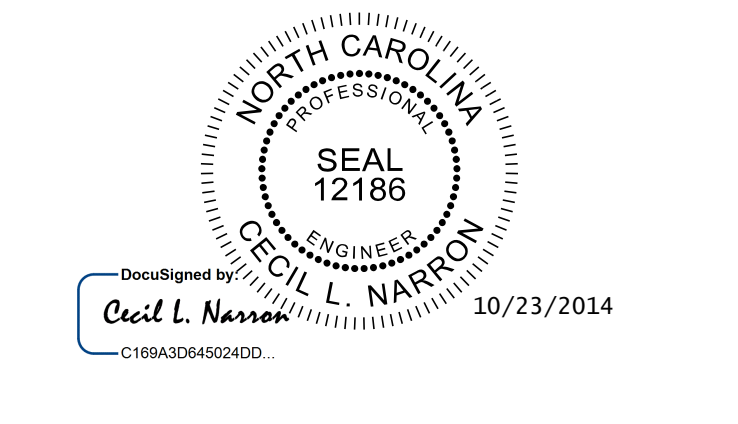
BILL OF MATERIAL

FOR VERTICAL CONCRETE BARRIER RAIL ONLY

BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	40	#5	STR	28'-9"	1,199
* B2	80	#5	STR	27'-1"	2,260
* B3	10	#5	STR	9'-7"	100
* B4	30	#5	5	6'-0"	188
* S1	350	#5	1	6'-9"	2,464
* S2	350	#5	2	7'-2"	2,616
* S3	64	#5	STR	4'-9"	317
* S4	22	#5	3	6'-9"	155
* S5	22	#5	4	8'-5"	193

* EPOXY COATED REINFORCING STEEL 9,492 LBS.
CLASS AA CONCRETE 45.8 C.Y.
VERTICAL CONCRETE BARRIER RAIL 356.7 LIN. FT.

PROJECT NO. U-3315
PITT COUNTY
STATION: 65+56.61 -L-
16+96.14 -Y10-



Kimley»Horn
333 Fayetteville Street, Suite 600
Raleigh, NC 27601-1772
Phone (919) 835-1494
N.C. LICENSE # F-0102

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			33

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ASSEMBLED BY : JIK	DATE : 9/14
CHECKED BY : JCW	DATE : 9/14
DRAWN BY : MAA 5/10	REV. 10/17/11 MAA/GM
CHECKED BY : GM 5/10	REV. 12/5/11 MAA/GM
	REV. 6/13 MAA/GM