

NOTES:

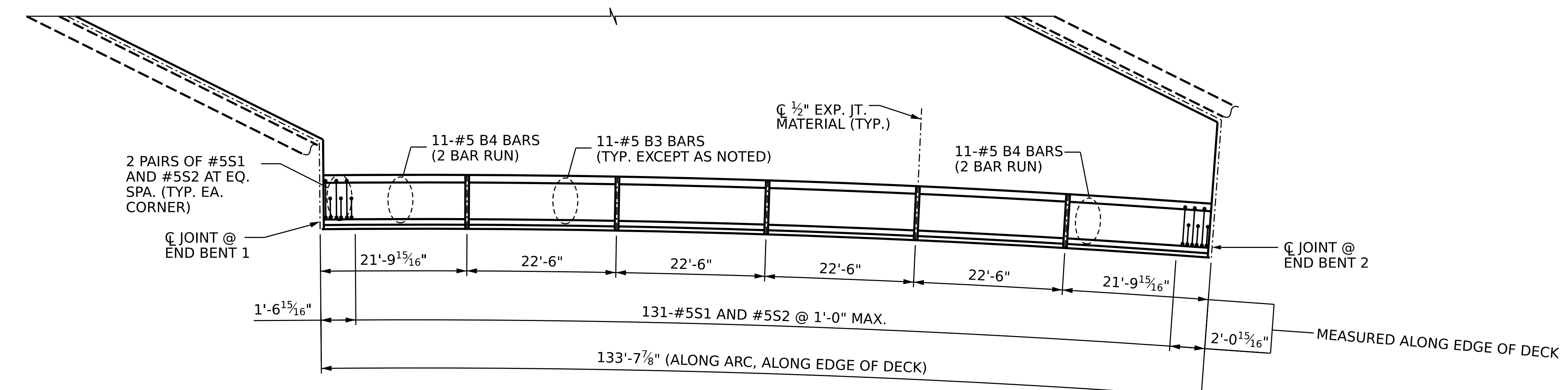
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL 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 THE 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.

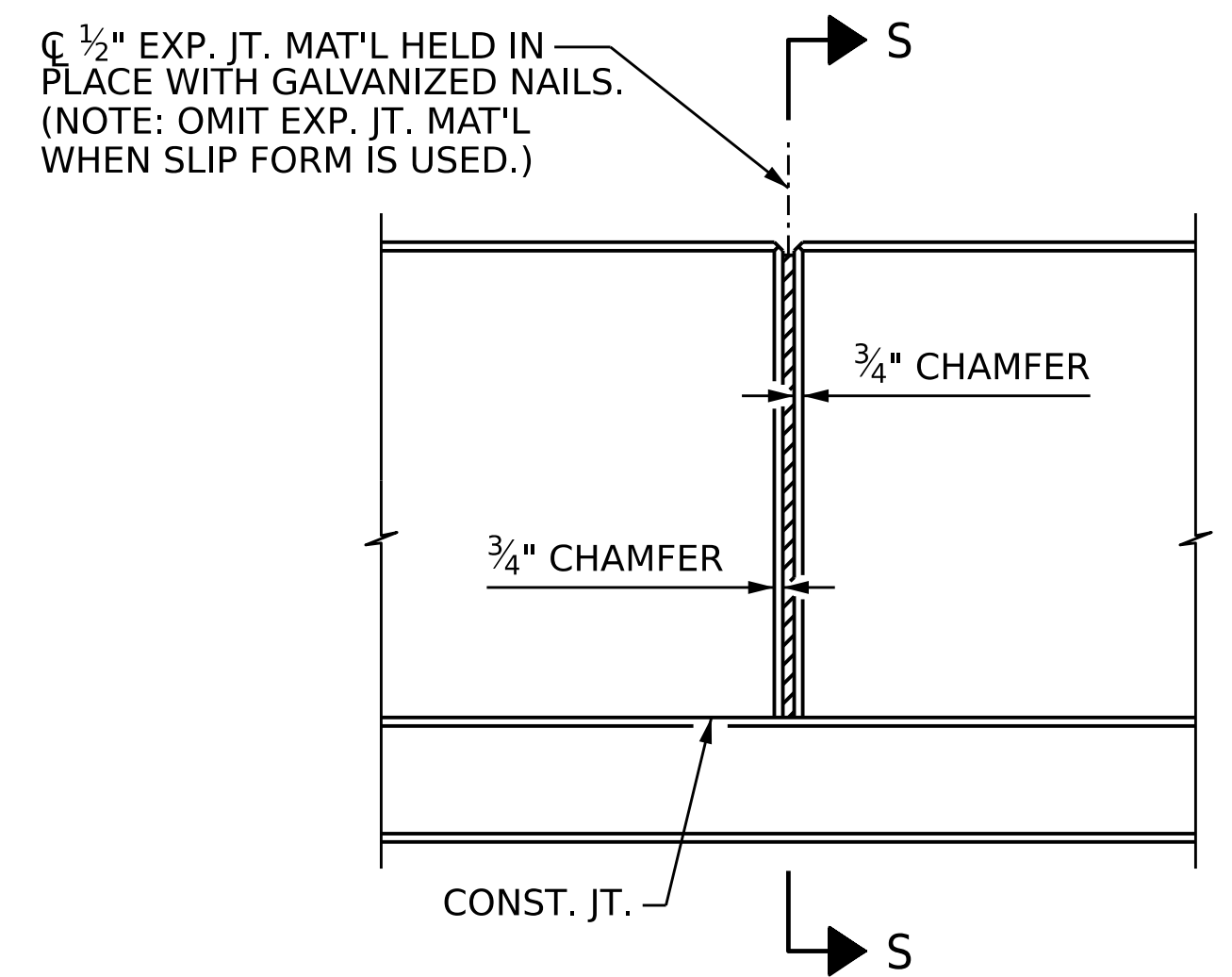
ALL REINFORCING STEEL IN THE CONCRETE BARRIER RAIL SHALL BE EPOXY COATED.

THE #5 S1 AND #5 S2 BARS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO PROVIDE 2" CLEARANCE TO THE 1/2" EXPANSION JOINT.

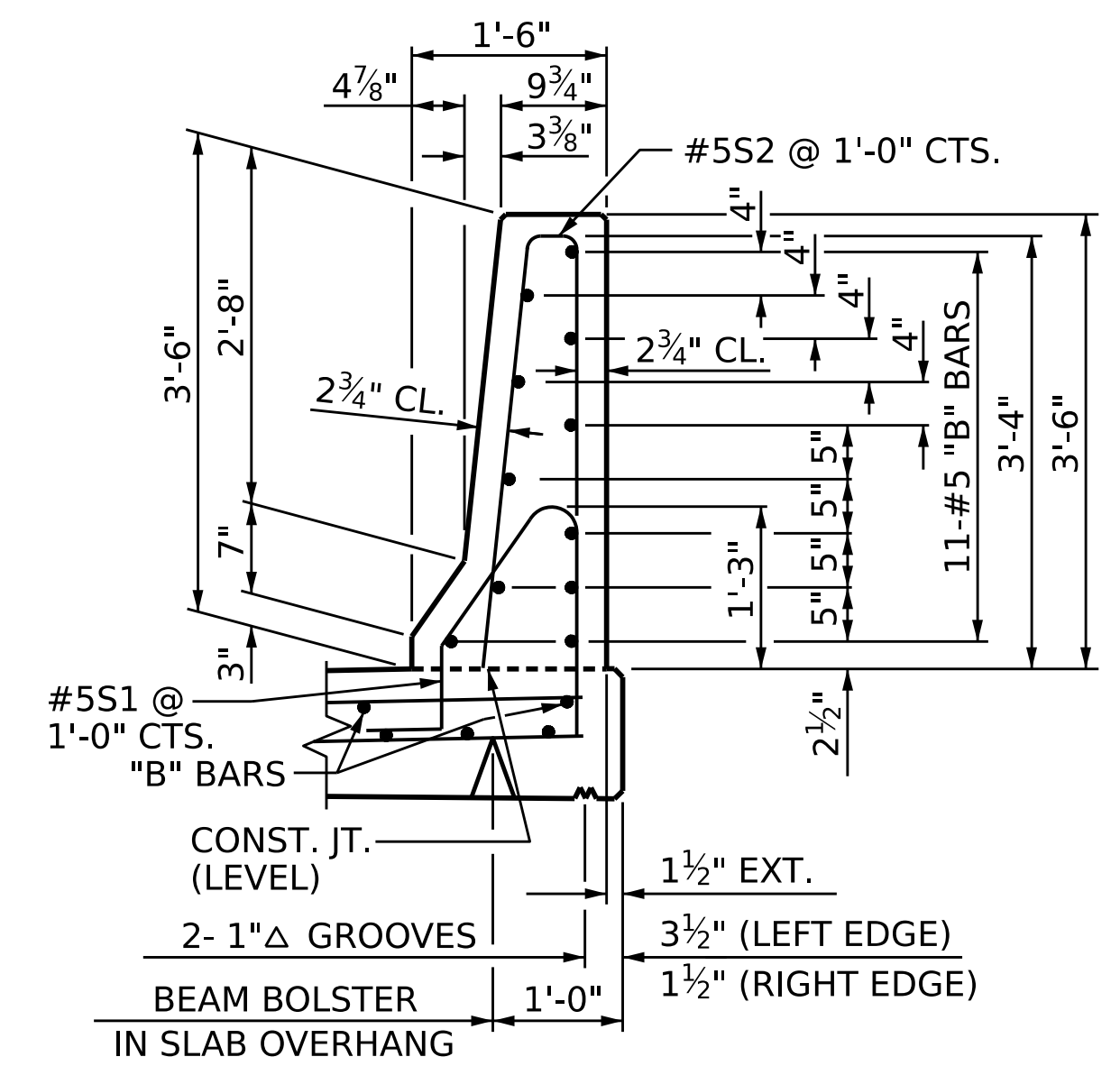
BILL OF MATERIAL					
CONCRETE BARRIER RAIL					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	44	5	STR	20'-1"	922
* B2	44	5	STR	11'-7"	532
* B3	44	5	STR	22'-1"	1013
* B4	44	5	STR	12'-4"	566
* S1	259	5	1	4'-7"	1,238
* S2	259	5	2	7'-0"	1,891
* EPOXY COATED REINFORCING STEEL					6,162 LBS.
CLASS AA CONCRETE					34.9 C.Y.
CONCRETE BARRIER RAIL					256.25 L.F.
BAR TYPES					
ALL BAR DIMENSIONS ARE OUT TO OUT.					



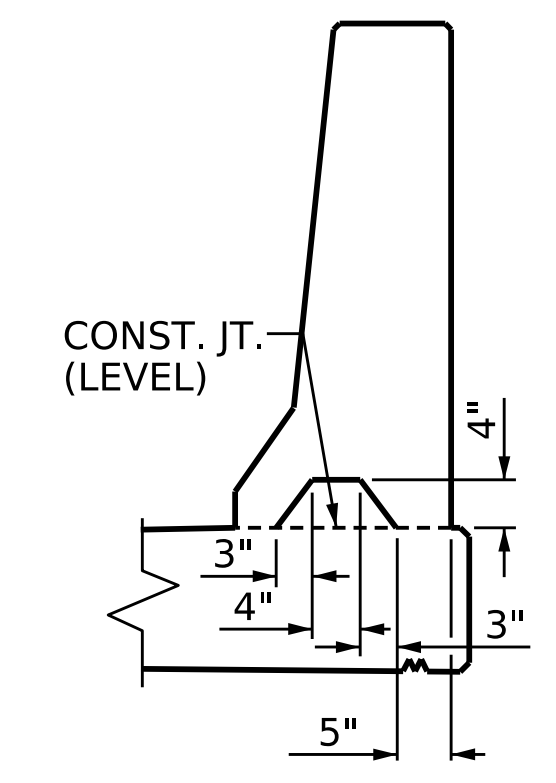
PLAN OF CONCRETE BARRIER RAIL



ELEVATION AT EXPANSION JOINTS



SECTION THRU RAIL



SECTION S-S

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

PROJECT NO. B-3186 / B-5898
HAYWOOD COUNTY
 STATION: 32+21.34 -L_ LT-

AECOM
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PROFESSIONAL ENGINEER
 GREGORY R. COLS
 SEAL 041343
 10/18/2023

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUPERSTRUCTURE					
CONCRETE BARRIER RAIL					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					S1-22
					TOTAL SHEETS 43

DRAWN BY: T. NEAL DATE: 02/2023
 CHECKED BY: S. NATARAJAN DATE: 04/2023
 DESIGN ENGINEER OF RECORD: G.R. COLS DATE: 04/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED