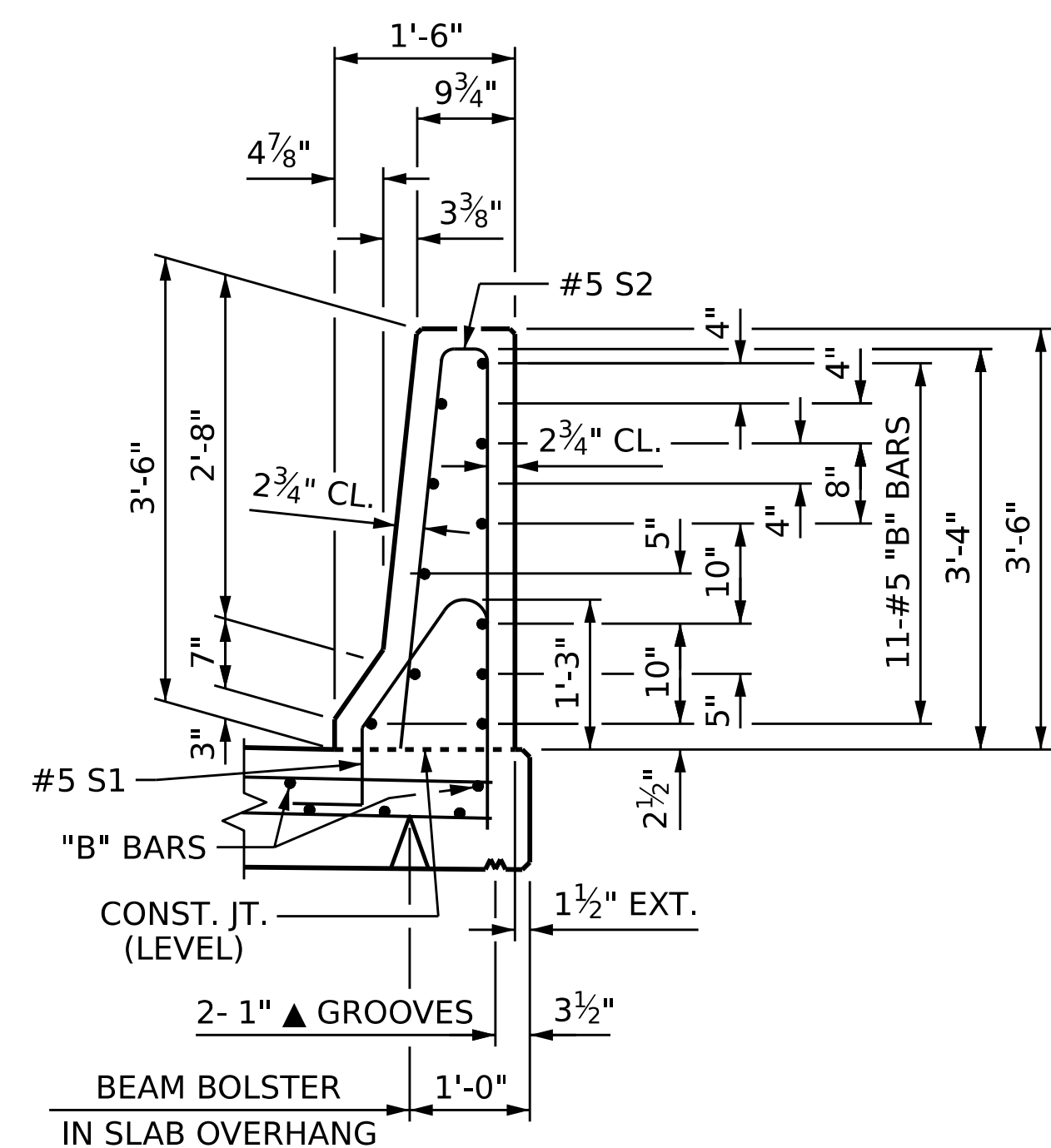
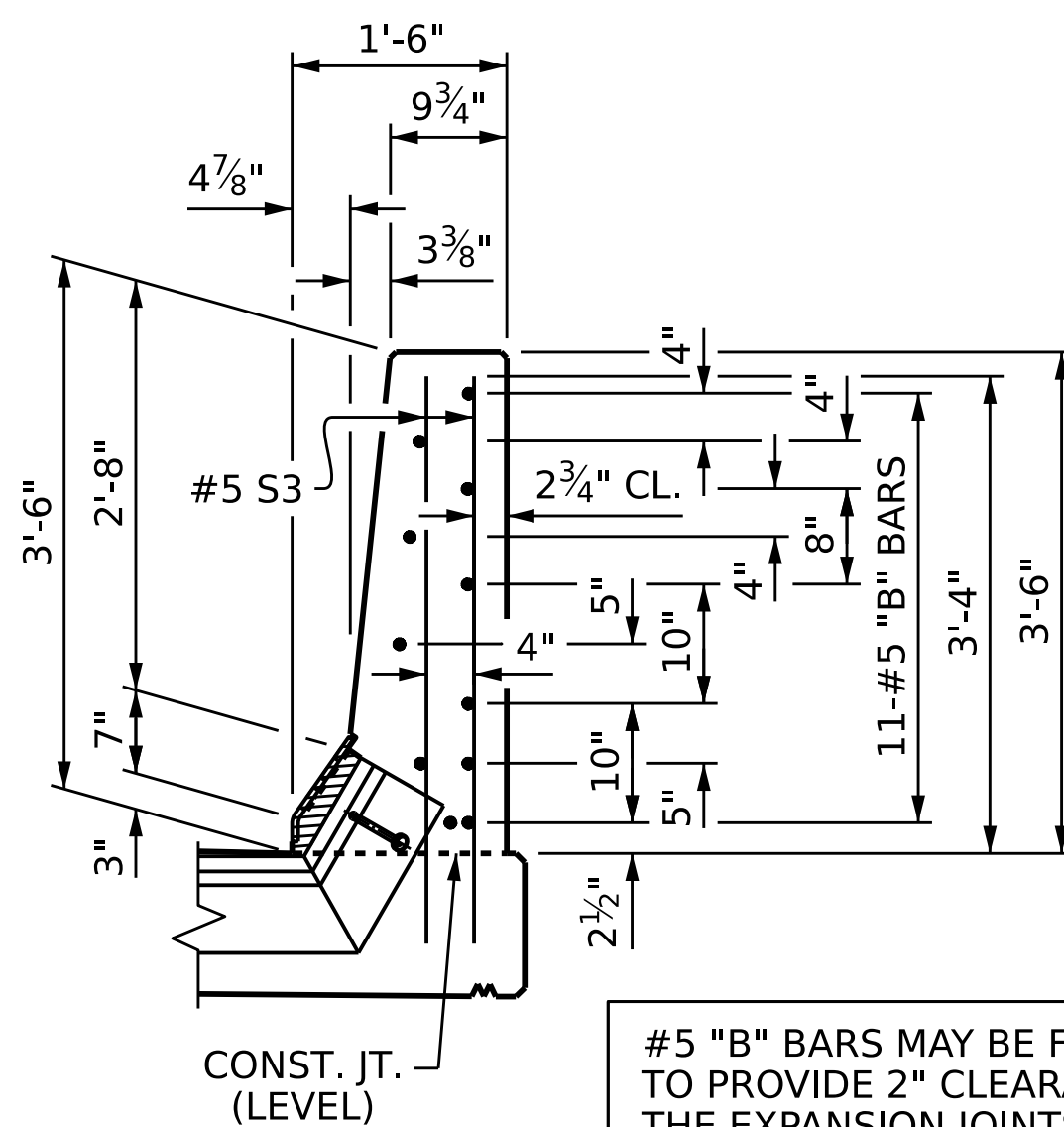


▲ MEASURED FROM C/JT.  
 ★ FOR RECESS DETAILS, SEE "STRIP SEAL EXPANSION JOINT DETAILS" SHEET

**PLAN VIEW AT EXPANSION JOINTS**

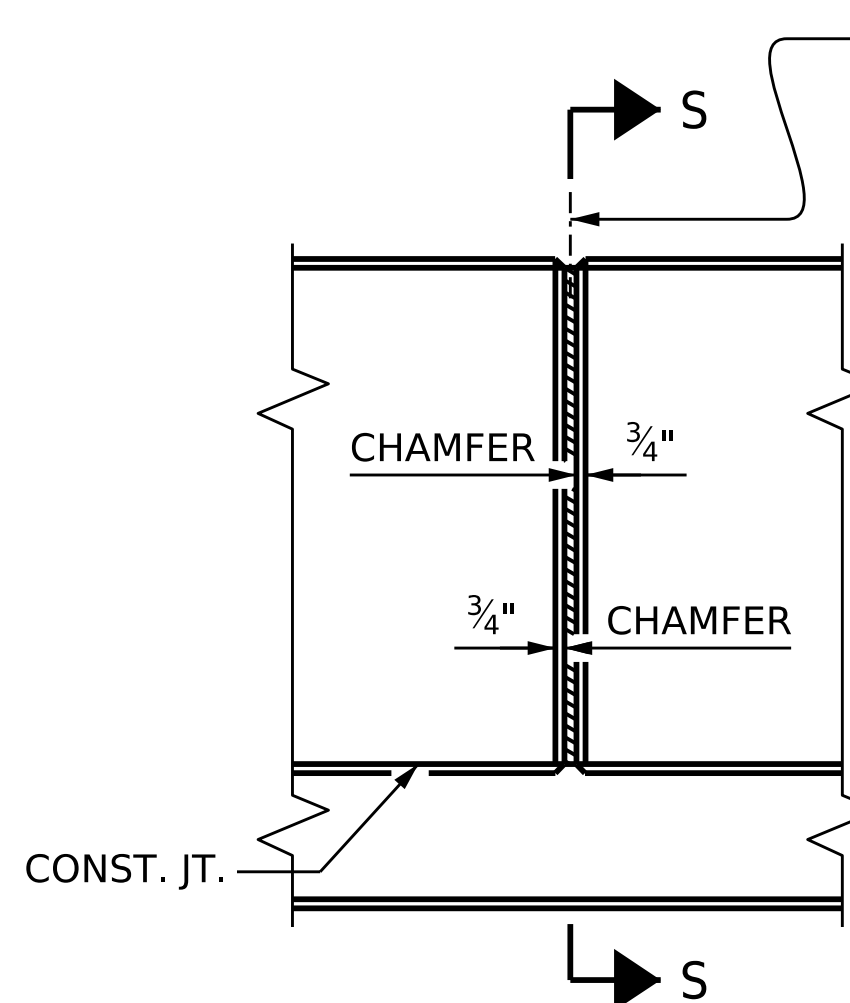


**SECTION THRU RAIL**

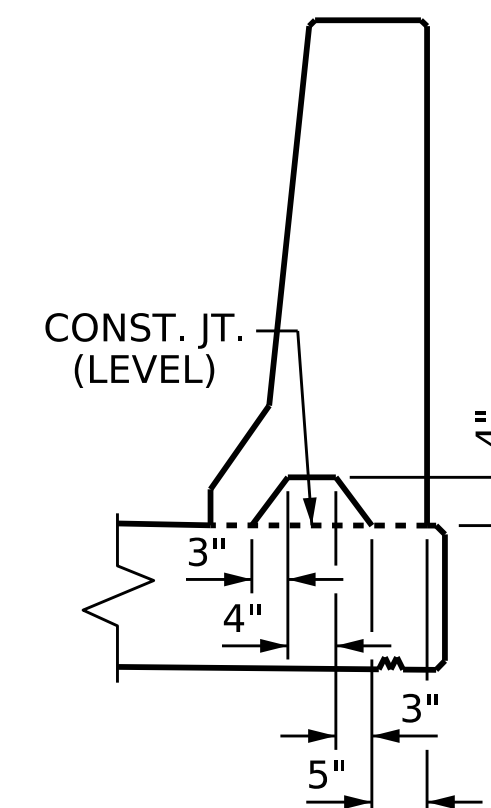


**SECTION AT JOINTS**

#5 "B" BARS MAY BE FIELD BENT TO PROVIDE 2" CLEARANCE TO THE EXPANSION JOINTS.



**ELEVATION AT EXPANSION JOINTS**



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

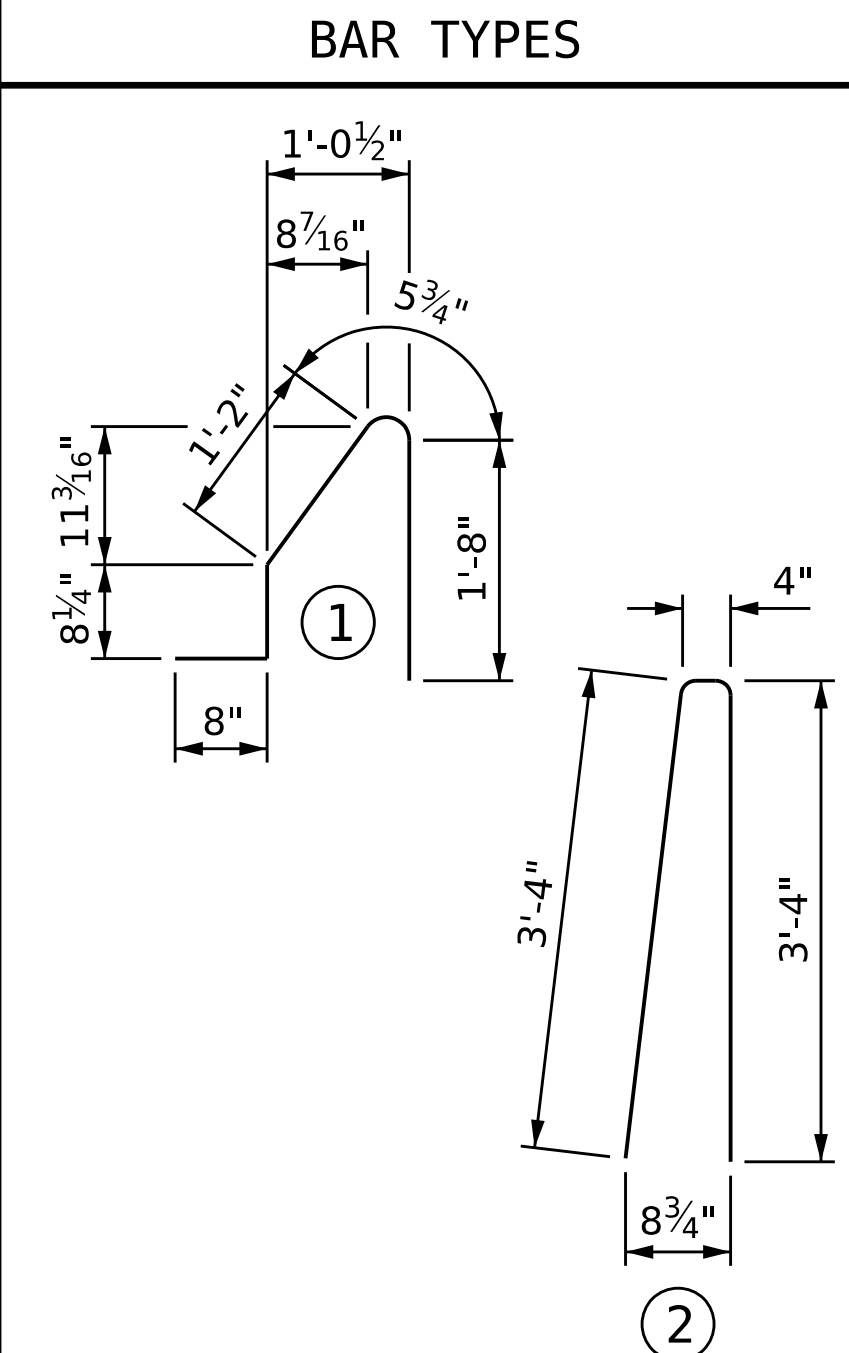
**NOTES**

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.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

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.

#5 "B" BARS MAY BE FIELD BENT TO PROVIDE 2" CLEARANCE TO THE EXPANSION JOINTS.



ALL BAR DIMENSIONS ARE OUT TO OUT.

**BILL OF MATERIAL**

FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*S1	534	#5	1	4'-8"	2,599
*S2	534	#5	2	7'-0"	3,899
*S3	16	#5	STR	4'-0"	67
*B1	242	#5	STR	20'-7"	5,195
*B2	44	#5	STR	9'-5"	432
*B3	44	#5	STR	13'-5"	616

\* EPOXY COATED REINFORCING STEEL 12,808 LBS.

CLASS AA CONCRETE 79.7 C. Y.

\*\* CONCRETE BARRIER RAIL SUPERSTRUCTURE 541.09 LIN. FT.

\*\*FOR DETAILS & QUANTITIES FOR CONCRETE BARRIER RAIL ON APPROACH SLABS, SEE "BRIDGE APPROACH SLAB" SHEETS.

PROJECT NO. **B-5981**  
**DUPLIN** COUNTY  
 STATION: **23+56.64 -L-**  
 SHEET 2 OF 2



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
**CONCRETE BARRIER RAIL**

DESIGN ENGINEER OF RECORD : W. C. SMITH DATE : 3/8/23	
ASSEMBLED BY : P. K. NEWTON DATE : 1/27/23	CHECKED BY : M. K. BEARD DATE : 3/6/23
DRAWN BY : ARB 5/87	REV. 7/12 MAA / GM
CHECKED BY : SJD 9/87	REV. 6/13 MAA / GM
	REV. 12/17 MAA / THC

REVISIONS  
 NO. BY: DATE: NO. BY: DATE:  
 1 3  
 2 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
SHEET NO. S1-24	TOTAL SHEETS 43