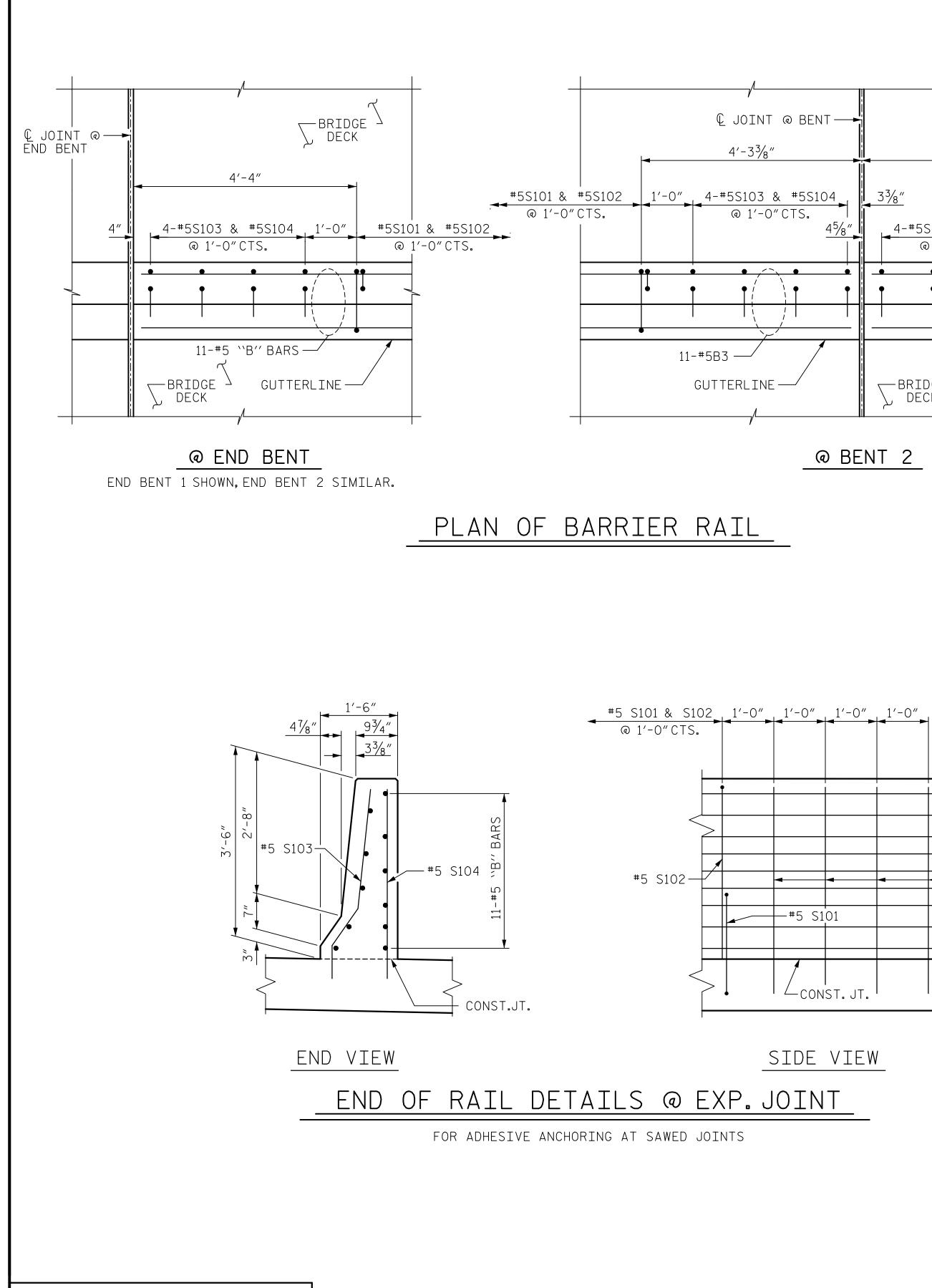
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DATE: TIME:



ASSEMBLED BY : D.R. CHECKED BY : J.C. M		DATE :06/2021 DATE :06/2021		
DRAWN BY : ARB	5/87 9/87	REV. 7/12 REV. 6/13 REV. 12/17	MAA/GM MAA/GM MAA/THC	

## 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.

WHEN FOAM JOINT SEAL IS REQUIRED, THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.

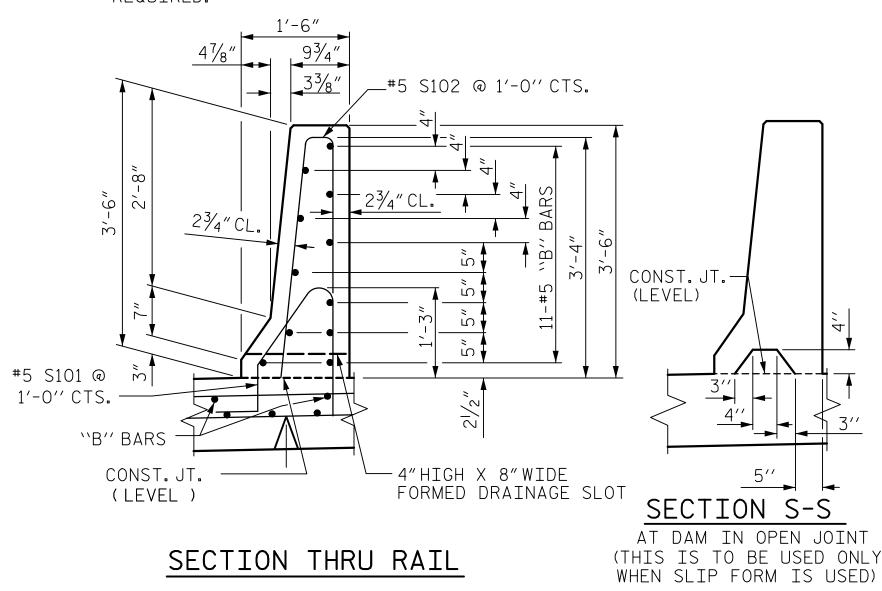
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S103 AND S104 BARS SHALL BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5 S103 AND S104 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

GROOVED CONTRACTION JOINTS,  $\frac{1}{2}^{\prime\prime}$  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.

THE 8"WIDE X 4" HIGH FORMED DRAINAGE SLOTS MAY BE SHIFTED SLIGHTLY, AS NECESSARY, TO CLEAR THE ``S'' BARS IN THE BARRIER.

THE #5S103 & #5S104 BARS SHALL BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5S103 & #5S104 BARS IS 18.6 KIPS.FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.



S

L S

AECOM

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AECOM TECHNICAL SERVICES OF NC, INC. 7643807RATERAEICENTER/VARIDE SOUTE2005 RALEIGH, NC 27607 (919) 854-6200 www.aecom.com AECOM License No. F-0342

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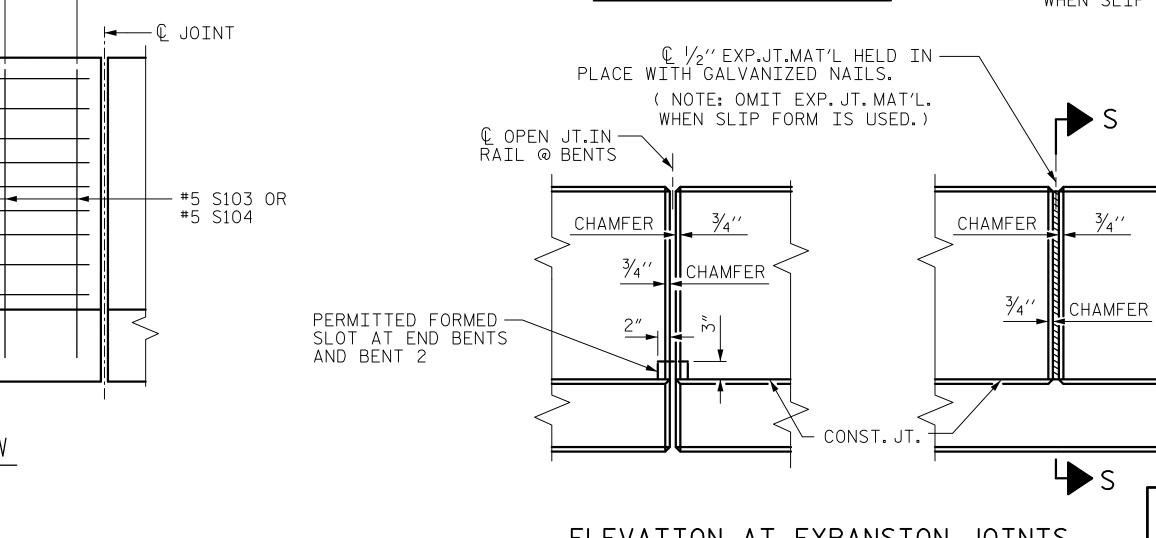
SNCINE C. MORP

John C. Morrison

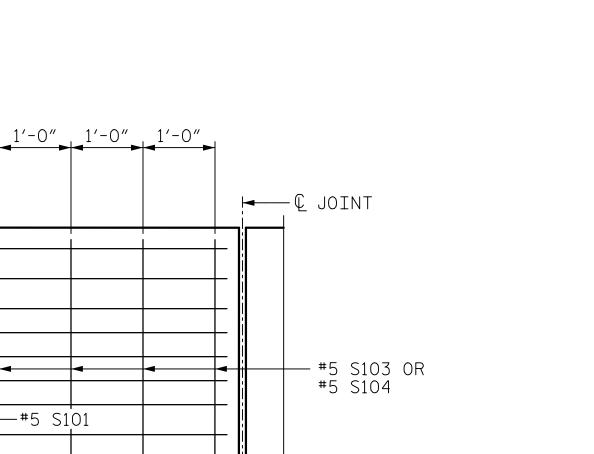
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2/10/2023

3⁄4′′



## ELEVATION AT EXPANSION JOINTS BARRIER RAIL DETAILS



• /~ ••

#5S10<u>1 &</u> #5S102

@ 1'-0"CTS.

4′-45⁄8″

4-#55103 & #55104 1'-0"

11-#5B4 —

@ 1'-0"CTS.

33⁄8″

BRIDGE DECK

@ BENT 2

4<sup>5</sup>⁄8″

SIDE VIEW

∠const.jt.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

			BAR	TYP	ES				
	$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ &$								
			10 <sup>1</sup> / <sub>2</sub> " 6 <sup>1</sup> / <sub>2</sub> " 2'-6 <sup>3</sup> / <sub>4</sub> "		4 <sup>1</sup> /4"				
	F BAR * B1 * B2	BIL OR CONO NO. 11 66	L OF CRETE SIZE #5 #5	- MA BARRIE TYPE STR STR	LENGTH 12'-4" 25'-7"	DNLY WEIGHT 142 1761			
	* B3 * B4 * B5 * B6 * S101	11 11 44 11 281	#5 #5 #5 #5 #5	STR STR STR STR 1	13'-5" 18'-11" 18'-7" 17'-11" 4'-6"	154 217 853 206 1325			
	*\$102 *\$103 *\$104	281 16	#5 #5 #5	2 3 STR	7'-0" 4'-2" 3'-6"	2052 70 58			
**	REI CLASS **CO DOES LENGT	NFORCIN AA CON NCRETE NOT ING H OF CO	NG STE NCRETE BARRI CLUDE NCRET	<u>er rai</u> Appro <i>i</i> e barr	6836 40.4 1 296.56 ACH SLAB. IER RAIL ACH SLAE	CU.YDS. LIN.FT. FOR ON			
project no. <u>U-5748</u> <u>WAKE</u> county									
station: <u>24+88.00</u> -L-									
DEPARTMENT OF TRANSPORTATION RALEIGH									
	CONCRETE BARRIER RAIL (Southbound lanes)								
งo. รา	BY:	RE DATE:	VISIONS	BY:	DATE:	SHEET NO. S2-28 Total			

STD. NO. CBR1

total sheets **119**