

END OF RAIL DETAILS FOR ADHESIVE ANCHORING AT SAWED JOINTS

NOTES

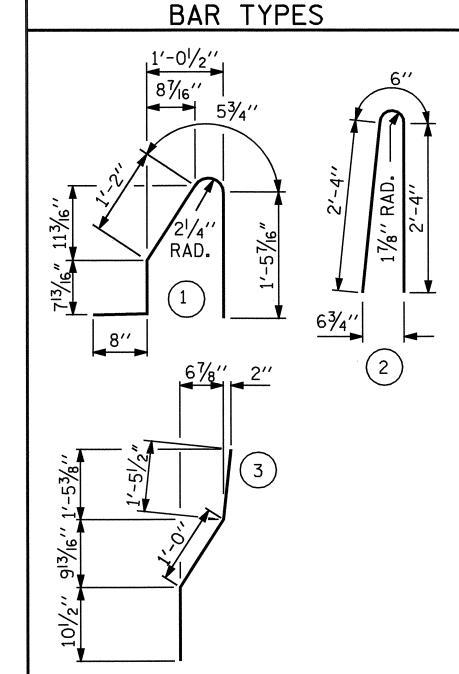
BARRIER RAIL IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THE UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3.000 PSI.

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 S3 AND #5 S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SPECIAL PROVISIONS. THE YIELD LOAD FOR THE #5 S3 AND #5 S4 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT

VERTICAL GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " 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.

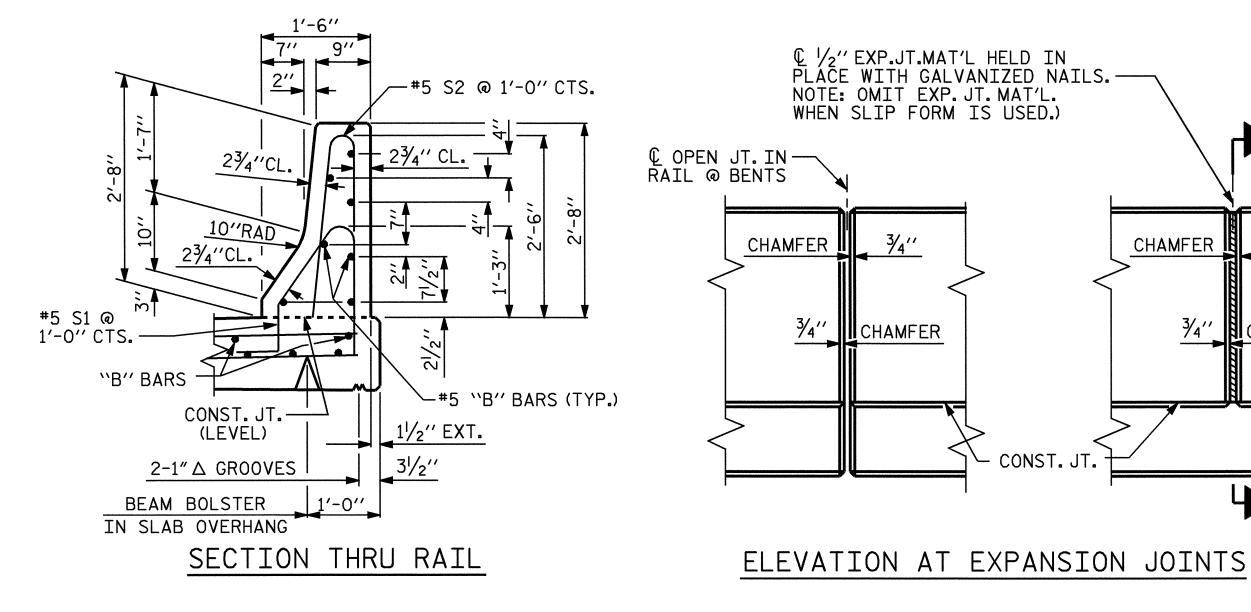


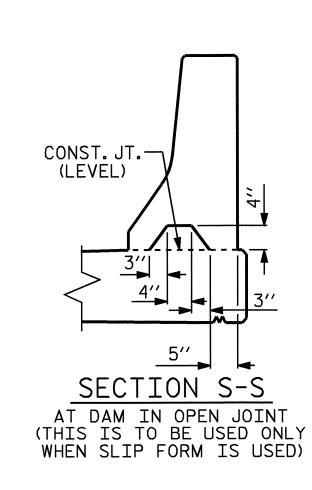
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL							
FOR CONCRETE BARRIER RAIL ONLY							
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT		
∗ B1	14	#5	STR	16′-11″	247		
∗ B2	70	#5	STR	21'-4"	1558		
 ₩ B3	14	#5	STR	21′-11″	320		
* S1	286	#5	1	4'-5"	1317		
* S2	286	#5	2	5′-2″	1541		
* S3	12	#5	3	3′-4″	42		
* S4	12	#5	STR	3′-2″	40		

│米 EPOXY COATED

REINFOR	RCING STEEL	5,065	LBS.
CLASS AA	CONCRETE	29.6 CU.	YDS.
CONCRETE	BARRIER RAIL	295.83 LIN	FT.





B-3714 PROJECT NO. ___ WILKES _ COUNTY STATION: 17+05.50 -L-

SHEET 2 OF 2

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

SHEET NO. **REVISIONS** S-17 DATE: DATE: BY: TOTAL SHEETS 35

BARRIER RAIL DETAILS

CHAMFER

CHAMFER

ASSEMBLED BY: P.C. BREWER DATE: 7/9/04 CHECKED BY: K.W. ALFORD DATE: 8/6/04 REV. 8/16/99 RWW/LES REV. 10/17/00 RWW/LES REV. 5/7/03R RWW/JTE CHECKED BY : SJD 9/87