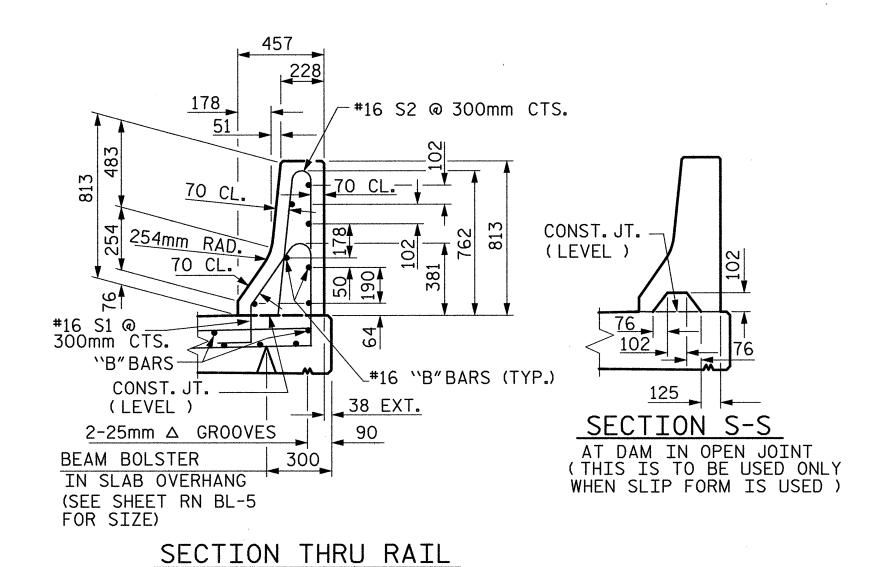
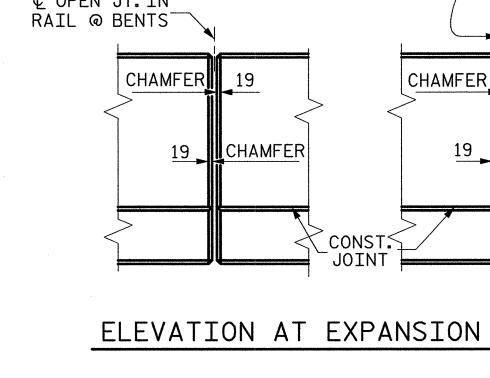
END OF RAIL DETAILS

PLAN





NOTES

THE BARRIER RAIL IN EACH CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPa.

WHEN COMPRESSION JOINT SEAL OR EVAZOTE 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.

PLANS PREPARED BY:

+MULKEY
ENGINEERS & CONSULTANTS

PO BOX 33127 RALEIGH, N.C. 27636 (919) 851-1912 (919) 851-1918 (FAX) WWW.MULKEYING.COM

THE #16 S3 AND #16 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 #16 S3 AND #16 S4 BARS IS 82.7 KN. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT

VERTICAL GROOVED CONTRACTION JOINTS, 12mm 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 6.1m IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 3.5m IN LENGTH.

318 214 146 57 77 8 mm RAD. 152 152 172					
ALL BAR DIMENSIONS ARE OUT TO OUT BILL OF MATERIAL					
BILL OF MATERIAL FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.		TYPE		WEIGHT
* S1	964	#16	1	1440	2154
* S2	964	#16	2	1580	2364
	050	440	CTD	7000	7000
<u>₩</u> B1	252	#16	STR	7880	3082

BAR TYPES

* EPOXY COATED 7600 kg REINFORCING STEEL CLASS AA CONCRETE 72.0 CU. METER

CONCRETE BARRIER RAIL 287.872 METERS

R-2552C PROJECT NO. JOHNSTON COUNTY STATION: 109+56.000 -L2LT- POT

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

THIS STANDARD DRAWING REVIEWED & ADOPTED FOR USE AT THE REFERENCED LOCATION BY THE UNDERSIGNED:

REFERENCE NO. BL-18

STANDARD CONCRETE BARRIER RAIL LANE)

STD. No. CBR1SM

SHEET NO. REVISIONS 5-201 DATE: BY: DATE: BY: TOTAL SHEETS

© 13mm EXP.JT.MAT'L HELD IN PLACE WITH GALVANIZED NAILS. (NOTE: OMIT EXP. JT. MAT'L. WHEN SLIP FORM IS USED.) € OPEN JT.IN CHAMFER ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS

DATE: 9/04 ASSEMBLED BY : W.B. ALLEN DATE: 10/04 CHECKED BY: R.C. LARSON REV. 8/16/99 REV. 10/17/00 REV. 5/7/03R DRAWN BY: ARB 5/87 RWW/LES CHECKED BY: SJD 9/87

RWW/JTI