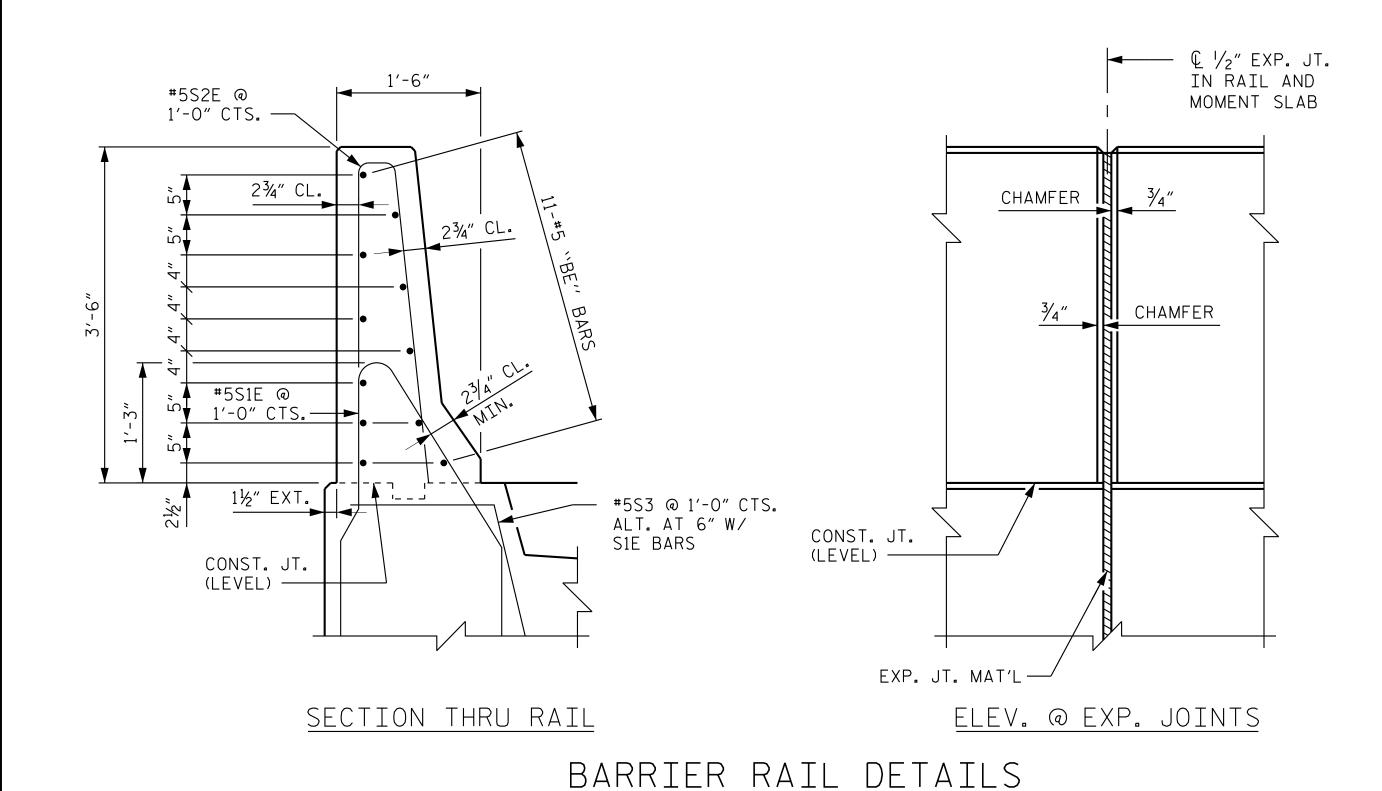


BILL OF MATERIAL BILL OF MATERIAL MOMENT SLAB @ END BENT MOMENT SLAB @ END BENT CONC. BARRIER RAIL WITH MOMENT SLAB CONC. BARRIER RAIL WITH MOMENT SLAB NO. | SIZE | TYPE | LENGTH | WEIGHT BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT BAR #4 | STR | 16'-0" В1 2 | #4 | STR | 18'-7" В2 #4 | STR | 15′-7″ В2 #4 | STR | 17'-6" 23 ___#4 | STR | 16'-4" В3 #4 | STR | 15′-2″ 22 В4 #4 | STR | 14'-9" #4 | STR | 15'-2" 20 В5 #4 | STR | #4 | STR | 14'-0" 19 14'-4" В6 #4 | STR | #4 | STR | 12'-4" 33 13′-11″ B7E #5 | STR | 16'-0" 184 #5 | STR | 12'-5" 78 B8E #4 | STR | 30'-0" 281 #5 | STR | 13'-9" 72 #4 STR 28'-2" #4 28 527 7′-1″ B10 #4 7′-7″ B10 #4 5′-10″ #4 7'-11" B11 #4 | 5 6′-9″ 4 #4 8'-4" B12 #4 | 5 | 7′-11″ #4 8′-6″ B13 #4 | 5 | 8′-7″ B14 B14 #4 24 #4 9′-8″ 13 9′-2″ B15E #5 4 37′-2" 426 B15 #4 | 5 10'-11" 29 10 B16E #5 | STR | 28'-2" 294 55 #5 | STR | 249 12 | #5 | STR | 28'-2" 354 4'-4" G2 55 B18E #4 | STR | 4'-4" 159 #5 | 5 | 8′-5″ 44 B19E #5 | 5 | 9′-3″ 58 54 S1E #5 7′-4″ 413 83 | #5 | STR | 4'-4" S2E 54 #5 7′-0″ 394 G1 375 83 | #4 | STR | 4'-4" S3 49 #5 4'-2" 213 G2 240 S1E | 77 | #5 | 1 7′-4″ 589 S2E 77 #5 2 7′-0″ 562 72 | #5 | 3 S3 4'-2" 313 REINFORCING STEEL LBS. 1,116 REINFORCING STEEL LBS. 1,678 EPOXY COATED EPOXY COATED REINFORCING STEEL LBS. 2,051 REINFORCING STEEL LBS. 1,417 CLASS AA CONCRETE CLASS AA CONCRETE BARRIER RAIL BARRIER RAIL C.Y. 7.2 C.Y. 10.6 CLASS A CONCRETE CLASS A CONCRETE C.Y. 15.9 C.Y. 23.4 MOMENT SLAB MOMENT SLAB CONCRETE BARRIER RAIL CONCRETE BARRIER RAIL WITH MOMENT SLAB LIN. FT. 52.0 | WITH MOMENT SLAB LIN. FT. 76.7

"E" DENOTES EPOXY COATED REINFORCING STEEL.

CONCRETE BARRIER RAIL WITH MOMENT SLAB * NOTCH NOT PRESENT IN AREA ABOVE END BENT BACKWALL



FOR CONCRETE BARRIER RAIL WITH MOMENT SLAB, SEE

CONCRETE BARRIER RAIL WITH MOMENT SLAB SHALL BE A MINIMUM OF 15' IN LENGTH.

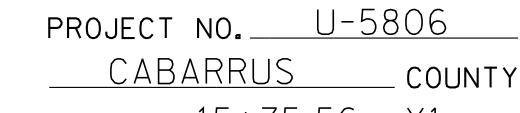
EXPANSION JOINTS SHALL BE PLACED IN THE BARRIER RAIL AND MOMENT SLAB AS SHOWN ON "MOMENT SLAB DETAILS", SHEET 1 OF 3 AND 2 OF 3.

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.

THE BARRIER RAIL SHALL NOT BE CAST UNTIL THE MOMENT SLAB CONCRETE HAS ATTAINED AN AGE OF THREE CURING DAYS OR A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. IN ADDITION, NO FILL MATERIAL, ASPHALT, OR CONSTRUCTION EQUIPMENT IS ALLOWED ON THE MOMENT SLAB PRIOR TO SATISFYING THE MINIMUM CONCRETE CURING AND STRENGTH REQUIREMENTS.

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

IF EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, BARRIERS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITH CONCRETE BARRIER RAIL WITH MOMENT SLAB OR CONCRETE FACING FOR RETAINING WALL WILL BE THICKER THAN 8", CONCRETE BARRIER RAIL WITH MOMENT SLAB DETAILS SHALL BE REVISED AND SUBMITTED FOR APPROVAL.



STATION: 15+75.56 -Y1-27+06.95 -L-

SHEET 3 OF 3

SEAL 040769

"TH CARO,

Andrew L Phillips

421 Fayetteville Street, Suite 600 Raleigh, NC 27601-1772 Phone (919) 677-2000 NC LICENSE # Phone (919) 677-2000

MOMENT SLAB DETAILS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

REVISIONS SHEET NO S-50 DATE: DATE: NO. BY: BY: TOTAL SHEETS

SEAL 033752 DocuSigned by: Seth A. Denney

E8EB154CC9ED410..

DATE: 10/17 DRAWN BY: <u>D.D.LOWERY</u> CHECKED BY: A.L. PHILLIPS DATE: 10/17 DESIGN ENGINEER OF RECORD: <u>S.A.DENNEY</u> DATE: 10/17

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED