

TEMPORARY SLOTS IN BARRIER RAIL

NOTES

TEMPORARY SLOTS MAY BE RE-POSITIONED SLIGHTLY AS NECESSARY TO PROVIDE 1"MINIMUM COVER TO #5 S1 AND #5 S2 BARS.

FOR TRAFFIC PHASING OPERATIONS, SEE TRAFFIC CONTROL PLANS AND SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

PRIOR TO PLACEMENT OF GROUT, ALL TEMPORARY SLOTS SHALL BE THROUGHLY CLEANED AND ALL INTERIOR SURFACES SAND BLASTED TO REMOVE LOOSE MATERIALS AND OTHER CONTAMINANTS. ALL WORK SHALL BE APPROVED BY THE ENGINEER.

ONCE TEMPORARY TRAFFIC ON THE BRIDGE HAS BEEN SHIFTED INTO THE FINAL PHASE, TEMPORARY SLOTS IN THE BARRIER RAIL SHALL BE FILLED WITH A NON-SHRINK, NON-METALLIC GROUT.

NO SEPARATE PAYMENT FOR MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO FILL TEMPORARY SLOTS SHALL BE MADE. ALL COSTS FOR THIS WORK SHALL BE INCIDENTAL TO THE PRICE OF THE CONCRETE BARRIER RAIL.

THE BARRIER RAIL IN THE 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.

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.

BAR TYPES 1'-01/2" 5¾" RAD. 8" 2

ALL BAR DIMENSIONS ARE OUT TO OUT

| BILL OF MATERIAL | | | | | |
|--------------------------------|-----|------|------|--------|--------|
| FOR CONCRETE BARRIER RAIL ONLY | | | | | |
| 3AR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| B1 | 44 | #5 | STR | 18′-9″ | 861 |
| В2 | 110 | #5 | STR | 29'-7" | 3395 |
| В3 | 110 | #5 | STR | 25′-7″ | 2936 |
| | | | | | |
| S1 | 640 | #5 | 1 | 4'-8" | 3116 |
| S 2 | 632 | #5 | 2 | 7′-∩″ | 4615 |

5′-6″

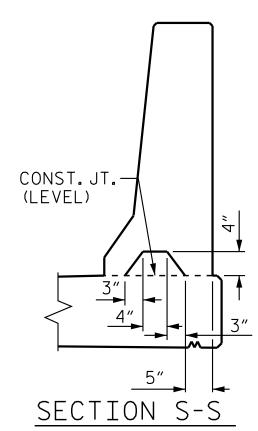
* EPOXY COATED

8

* S3

REINFORCING STEEL 14**,**969 LBS 87.0 CU. YDS CLASS AA CONCRETE CONCRETE BARRIER RAIL 636.67 LIN.FT.

#5 | 2 |



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

PROJECT NO. R-2707D

CLEVELAND COUNTY

849+00.00 -L-STATION:_

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

STANDARD

CONCRETE BARRIER RAIL

(LEFT LANE)

SHEET NO. **REVISIONS** 5**/9/2023**470764646B. S5-32 DATE: DATE: BY: BY: TOTAL SHEETS 56

PLACE WITH GALVANIZED NAILS. (NOTE: OMIT EXP. JT. MAT'L. WHEN SLIP FORM IS USED.) CHAMFER IS 3/4" CHAMFER CONST.JT

© 1/2"EXP.JT.MAT'L HELD IN —

-#5 S2

ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS

2'-0" 2'-4" 8", 312-#5 S1 & #5 S2 1'-0" @ 1'-0"CTS. #5 S2 — 10" PAVEMENT NOTCH @ END BENT — GUTTERLINE — FILL FACE — #5 S1 — #5 S2 #5 S3 1'-0" 8" 8" 312-#5 S1 & #5 S2 1'-0" @ 1'-0"CTS. 2'-0"

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MAA/GM MAA/GM MAA/GM DESIGN ENGINEER OF RECORD: _ S.S. POOLE DATE: 05/09/23

1'-6" 1'-0" 1'-0" 2 SPA 312-#5 S1 & #5 S2 @ 1'-0"CTS. FIELD BEND 23/4"CL. #5 S3-#5 S1 @ 1'-0"CTS. CONST.JT.— - CONST.JT. (LEVEL) END VIEW SIDE VIEW

-PLACE 8"X 6" RECTANGULAR TEMPORARY SLOT

SHEET 1 OF 2.

TEMPORARY SLOTS IN BARRIER RAIL DETAIL

DRAINS MAY BE FORMED.

IN BARRIER RAIL AS SHOWN IN "BARRIER RAIL"

END OF RAIL DETAILS

RIGHT SIDE AT END BENT 1 SHOWN, LEFT SIDE SIMILAR

054498

SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STD. NO. CBR1 STR.#9

Stantec ASSEMBLED BY : J.E. HAGENBUSH DATE : 09/28/18 CHECKED BY: S. S. POOLE DATE: 12/10/22 DRAWN BY: ARB 5/87 CHECKED BY : SJD 9/87

PLAN