

BILL OF MATERIAL

BILL OF WINCE CITY					
FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
★ B1	88	#5	STR.	26'-7"	2440
★ B2	6	#5	STR.	8'-2"	51
★ B3	5	#5	STR.	8'-4"	43
★ B4	11	#5	STR.	15′-6″	178
* S1	240	#5	1	4'-7"	1147
* S2	240	#5	2	7'-0"	1752

5,611 LBS.

32.7 CU. YDS. 240.4 LIN.FT

* EPOXY COATED REINFORCING STEEL LASS AA CONCRETE

CONCRETE BARRIER RAIL

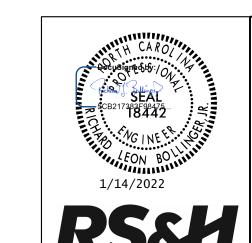
NOTES

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.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, \(\struct{1}{2}\)" 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.

> PROJECT NO. <u>U-5798</u>A CUMBERLAND COUNTY STATION: 76+80.00 -L-



8521 Six Forks Road, Suite 400

919-926-4100 FAX 919-846-9080

www.rsandh.com

North Carolina License Nos. 50073 * F-0493 * C-28

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE

> CONCRETE BARRIER RAIL

> > LEFT LANE

RS&H Architects-Engineers-Planners, Inc. SHEET NO REVISIONS DATE: S1-18 BY: DATE: NO. BY: TOTAL SHEETS 43

(NOTE: OMIT EXP.JT.MAT'L. When slip form is used.) __#5 S2 @ 1'-0'' CTS. **S** Ç OPEN JT.IN ── RAIL @ END BENTS CONST.JT.-3/4′′ CHAMFER |||| 3/4′′ CHAMFER | (LEVEL) 3/4'' | III CHAMFER || || CHAMFER CONST.JT. CONST. JT. SECTION S-S AT DAM IN OPEN JOINT (THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED) $1\frac{1}{2}$ EXT. ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS

TWL _DATE : <u>05/2020</u> DRAWN BY : ___ MRA DATE : <u>05/2020</u> CHECKED BY : _ DESIGN ENGINEER OF RECORD: RLB _ DATE : <u>09/2021</u>

SECTION THRU RAIL

23/4" CL.

#5 S1 @

1'-0'' CTS.

"B" BARS

CONST.JT.

(LEVEL)

2- 1″△GROOVES

BEAM BOLSTER IN SLAB OVERHANG

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED