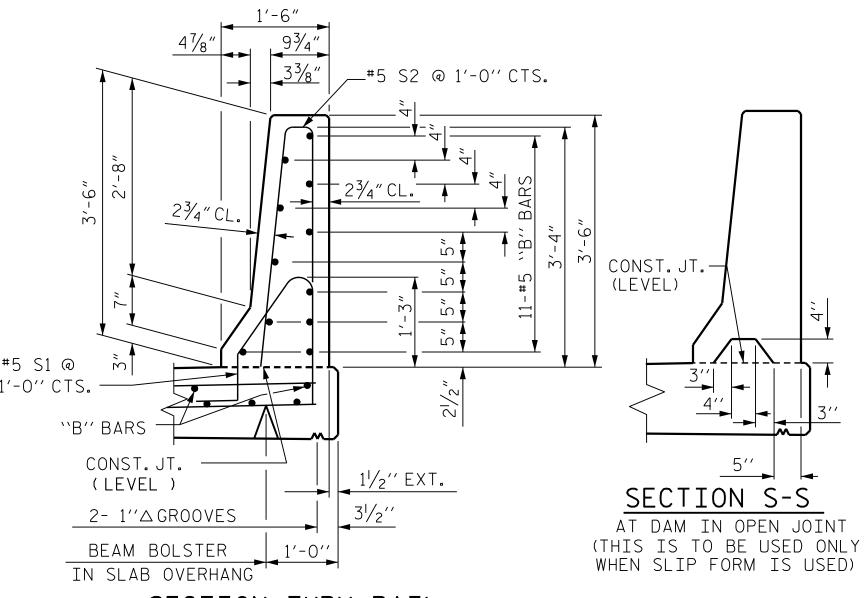
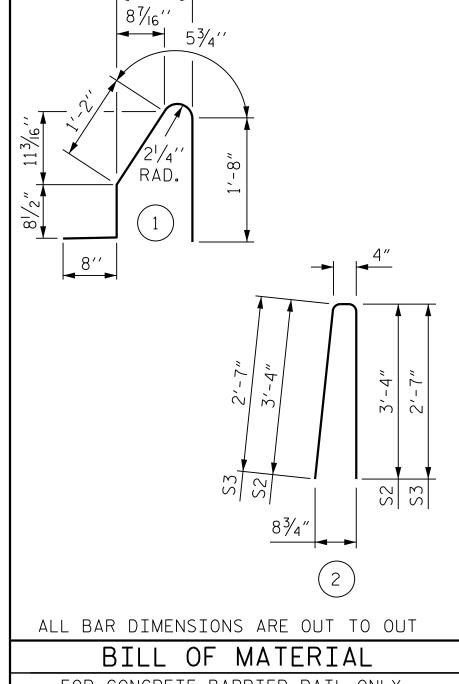
NOTES

THE BARRIER RAIL 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, $\frac{1}{2}$ " 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.





BAR TYPES

1'-01/2''

ALL BAR DIMENSIONS ARE OUT TO OUT										
BILL OF MATERIAL										
FOR CONCRETE BARRIER RAIL ONLY										
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT					
∗ B1	22	5	STR	24'-5"	560					
∗ B2	44	5	STR	25′-8″	1178					
∗ B3	22	5	STR	24'-8"	566					
* S1	204	5	1	4'-8"	993					
* S2	196	5	2	7′-0″	1431					
* S3	8	5	2	5′-6″	46					
•		·								

* EPOXY COATED	
REINFORCING STEEL	4,774 LBS.
CLASS AA CONCRETE	27.7 CU. YDS.
CONCRETE BARRIER RAIL	203.6 LIN.FT.

PROJECT NO. R-2233BB RUTHERFORD COUNTY

774+41.49 -L3-STATION:_

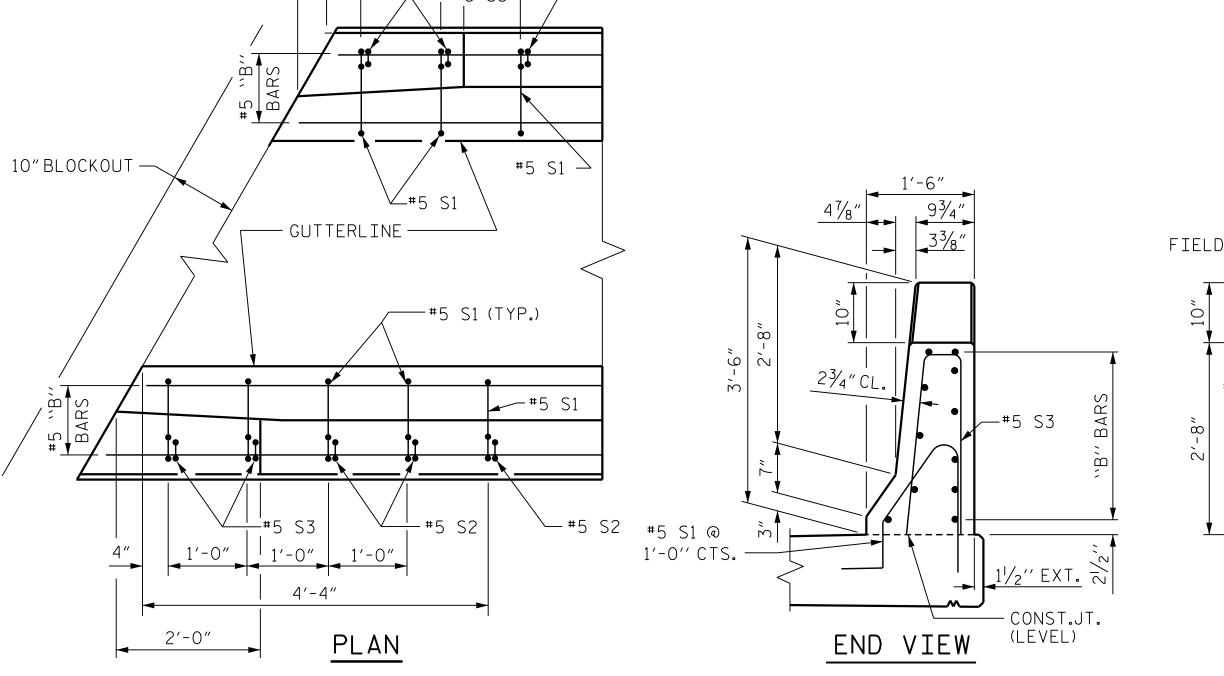
SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD

> CONCRETE BARRIER RAIL

	SHEET NO.				
BY:	DATE:	NO.	BY:	DATE:	S1-17
					TOTAL SHEETS
		4			28

#5 S1 @ 1'-0'' CTS. SECTION THRU RAIL



MAA/GM MAA/GM MAA/THC

#5 <u>S1 & S2</u>

CONST.JT

ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS

3/4′′

CHAMFER

CHAMFER 📙

(NOTE: OMIT EXP.JT.MAT'L.

WHEN SLIP FORM IS USED.)

2'-0" 1'-0" 1'-0" #5 S1 & S2 @ 1'-0"CTS. FIELD BEND #5 S1 CONST.JT. SIDE VIEW

END OF RAIL DETAILS

MODJESKI and MASTERS Experience great bridges. 333 FAYETTEVILLE STREET, SUITE 500 RALEIGH, NC 27601 NC LICENSE NO. C-2979

DOCUMENT NOT CONSIDERED FINAL

CHECKED BY:

DESIGNED BY: C.CORMAN
DRAWN BY: K.WHITE

DESIGN ENGINEER
OF RECORD: J. DOUGHTY

J. BORUTA

_ DATE : <u>JULY 2019</u> _ DATE : <u>APR 2019</u>

__ DATE : <u>JULY 2019</u>

DRAWN BY: ARB 5/87

CHECKED BY: SJD 9/87

UNLESS ALL SIGNATURES COMPLETED

STR.#1

SEAL 032967

Jason R Doughty

CBR1