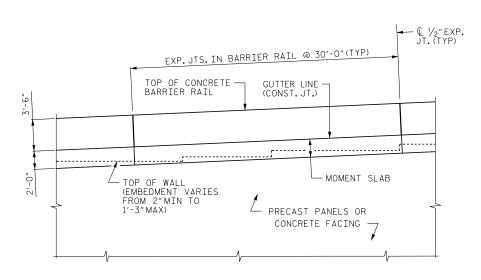


CONCRETE BARRIER RAIL WITH MOMENT SLAB



CONCRETE BARRIER RAIL WITH MOMENT SLAB - PARTIAL ELEVATION

NOTES:

FOR CONCRETE BARRIER RAIL WITH MOMENT SLAB, SEE SECTION 460 OF THE STANDARD SPECIFICATIONS.

CONCRETE BARRIER RAIL WITH MOMENT SLAB SHALL BE A

EXPANSION JOINTS SHALL BE PLACED IN THE BARRIER RAIL AND MOMENT SLAB AT A MAXIMUM SPACING OF 30'.

GROOVED CONTRACTION JOINTS, 1/2"IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED SURFACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(8) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS.ONLY ONE CONTRACTION JOINT IS REQUIRED AT MID-POINT OF BARRIER RAIL SEGMENTS LESS THAN 20'IN

EXPANSION OR CONTRACTION JOINTS IN THE BARRIER RAIL AND MOMENT SLAB SHALL BE ALIGNED WITH JOINTS IN WALL FACING BELOW.

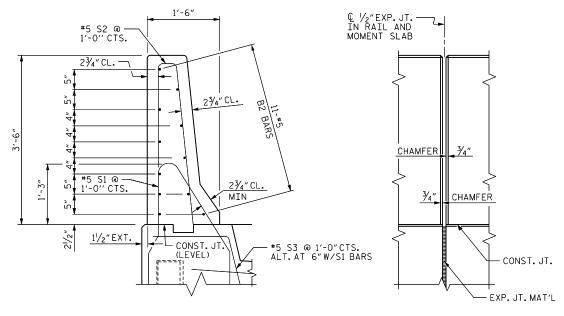
THE BARRIER RAIL SHALL NOT BE CAST UNTIL THE MOMENT SLAB HAS ATTAINED AN AGE OF THREE CURING DAYS OR A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. IN ADDITION, NO FILL MATERIAL, ASPHALT, OR CONSTRUCTION EQUIPMENT IS ALLOWED ON THE MOMENT SLAB PRIOR TO SATISFYING THE MINIMUM CONCRETE CURING AND STRENGTH 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.

CONCRETE BARRIER RAIL WITH MOMENT SLAB

PAY LENGTH = 305 LIN FT



BARRIER RAIL DETAILS

P: (919) 878-9560 8601 Síx Forks Road, Forum 1, Suite 700 Raleigh, North Carolina 27615-3960 NC License No. F-0112

Responsive People | Creative Solutions

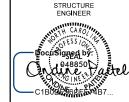
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SECTION THRU RAIL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

ELEV. @ EXP. JOINTS

GEOTECHNICAL ENGINEERING UNIT

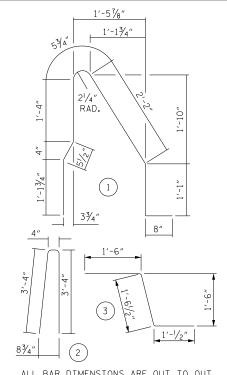


11/13/2023

FNGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

ALL BAR DIMENSIONS ARE OUT TO OUT											
BILL OF MATERIAL											
FOR ONE 30'-O"SECTION OF CONCRETE BARRIER RAIL WITH MOMENT SLAB											
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT						
B1	14	#4	STR	29'-7"	277						
* B2	11	#5	STR	29'-7"	339						
G1	31	#5	STR	4'-4"	140						
G2	31	#4	STR	4'-4"	90						
* S1	31	#5	1	7′-4″	237						
* S2	31	#5	2	7′-0″	226						
S3	30	#5	3	4'-1"	128						
REIN		635 LB									
* EPOX REIN	802 LB										
	CLASS AA CONCRETE BARRIER RAII										

PROJECT NO.: R-2577A

CLASS A CONCRETE MOMENT SLAB

CONCRETE BARRIER RAIL WITH MOMENT SLAB

FORSYTH COUNTY

9.1 CY

30 LIN FT

STATION: -RW1- 10+00.00 TO -RW1- 13+58.31

SHEET 5 OF 5 WALL ID RW-1

CONCRETE BARRIER RAIL WITH MOMENT SLAB FOR PRECAST PANELS AND CONCRETE FACING

REVISIONS							
NO.	BY	DATE	NO.	BY	DATE	SHEET NO.	
1			3			W-5	
2			4			•••	

PREPARED BY: MAXIME METRY DATE: 03/06/23 REVIEWED BY: JAMEY BATTS DATE: 03/06/23