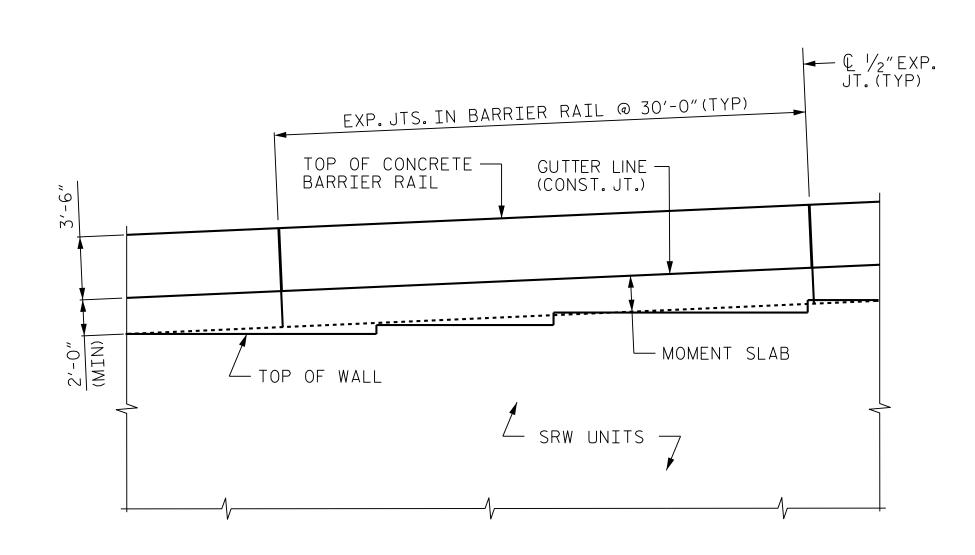


CONCRETE BARRIER RAIL WITH MOMENT SLAB



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 MINIMUM OF 15' IN LENGTH.

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(B) 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 LENGTH.

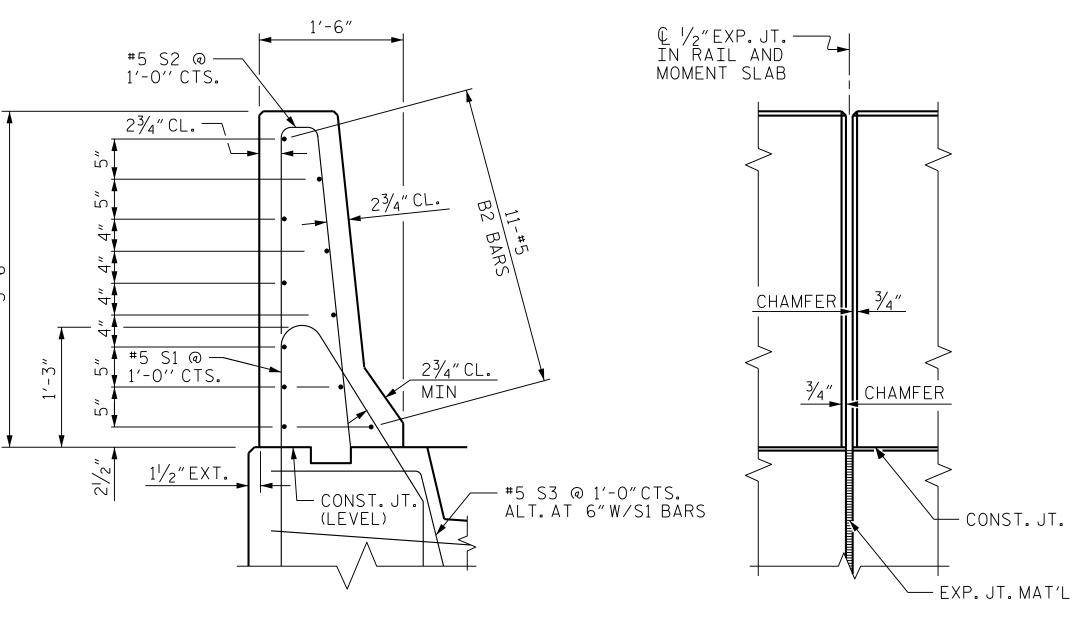
THE BARRIER RAIL SHALL NOT BE CAST UNTIL THE MOMENT SLAB HAS ATTAINED AN AGE OF THREE CURING DAYS OR A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. IN ADDITION, NO FILL MATERIAL, ASPHALT, OR CONSTRUCTION EQUIPMENT IS ALLOWED ON THE MOMENT SLAB PRIOR TO SATISFYING THE MINIMUM CONCRETE CURING AND STRENGTH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

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

IF STEPS ARE REQUIRED AT TOP OF WALL, DETAILS SHOWING INTERFACE BETWEEN BOTTOM OF MOMENT SLAB AND STEPS SHALL BE SUBMITTED FOR APPROVAL.

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

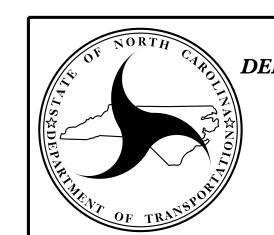




SECTION THRU RAIL

ELEV. @ EXP. JOINTS

BARRIER RAIL DETAILS



NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

STRUCTURE ENGINEER ENGINEER ENGINEER ENGINEER SEAL 29869 JOHN C. CLAR 4/16/2020 1F4E87E60BAD4EA SIGNATURE DATE SIGNATURE ENGINEER DATE SIGNATURE DATE

DOCUMENT	NOT CONSI	DERED FINAL
UNLESS ALL	SIGNATURE	S COMPLETE

BAR TYPES

1'-57/8"

1'-13/4"

21/4"
RAD.

1'-6"

8"

1'-1/2"

ALL BAR DIMENSTONS 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	5′-6″	178	
G2	31	#4	STR	5′-6″	114	
₩ C1	71	#5	1	7, 7,	27/	
* S1	31			7′-3″	234	
* S2	31	#5	2	7'-0"	226	
S3	30	#5	3	4'-1"	128	
REIN	697 LB					
* EPOXY COATED REINFORCING STEEL 799						
CLASS AA CONCRETE BARRIER RAIL 4.1						
CLASS A CONCRETE MOMENT SLAB 9.1 CY						
CONCRETE BARRIER RAIL WITH MOMENT SLAB 30 LIN FT						

PROJECT NO.: 34440 (R-2233BB)

RUTHERFORD COUNTY

STATION: 26+60.00 -Y6- to 13+14.09 -DR4-

SHEET 6 OF 6

CONCRETE BARRIER RAIL WITH MOMENT SLAB FOR SEGMENTAL RETAINING WALL (SRW) UNITS

 REVISIONS

 NO.
 BY
 DATE
 NO.
 BY
 DATE
 NO.

 1
 3
 W-11

 2
 4
 W-11

PREPARED BY: SCC DATE: 4/10/2020
REVIEWED BY: ENW DATE: 4/10/2020