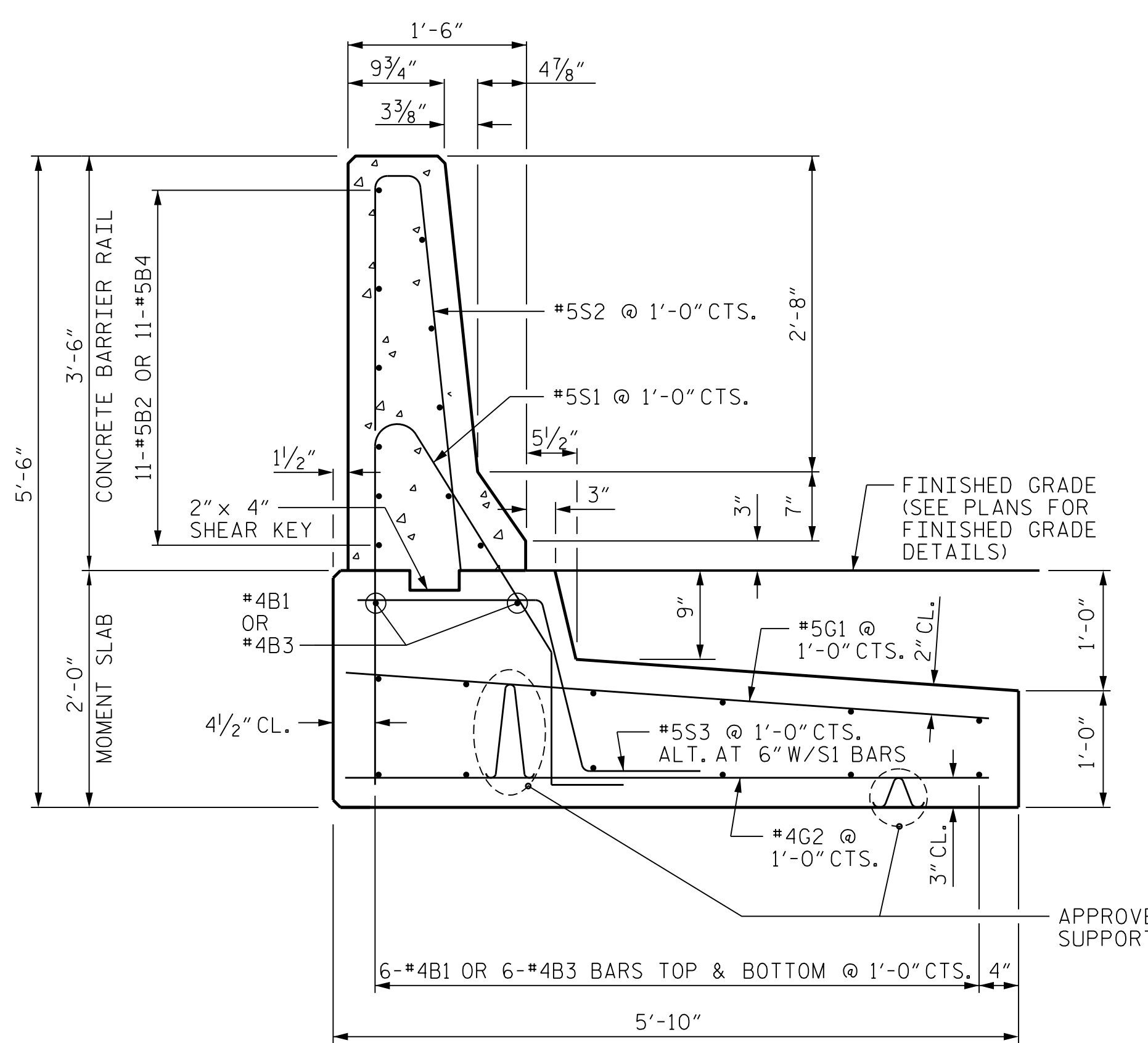
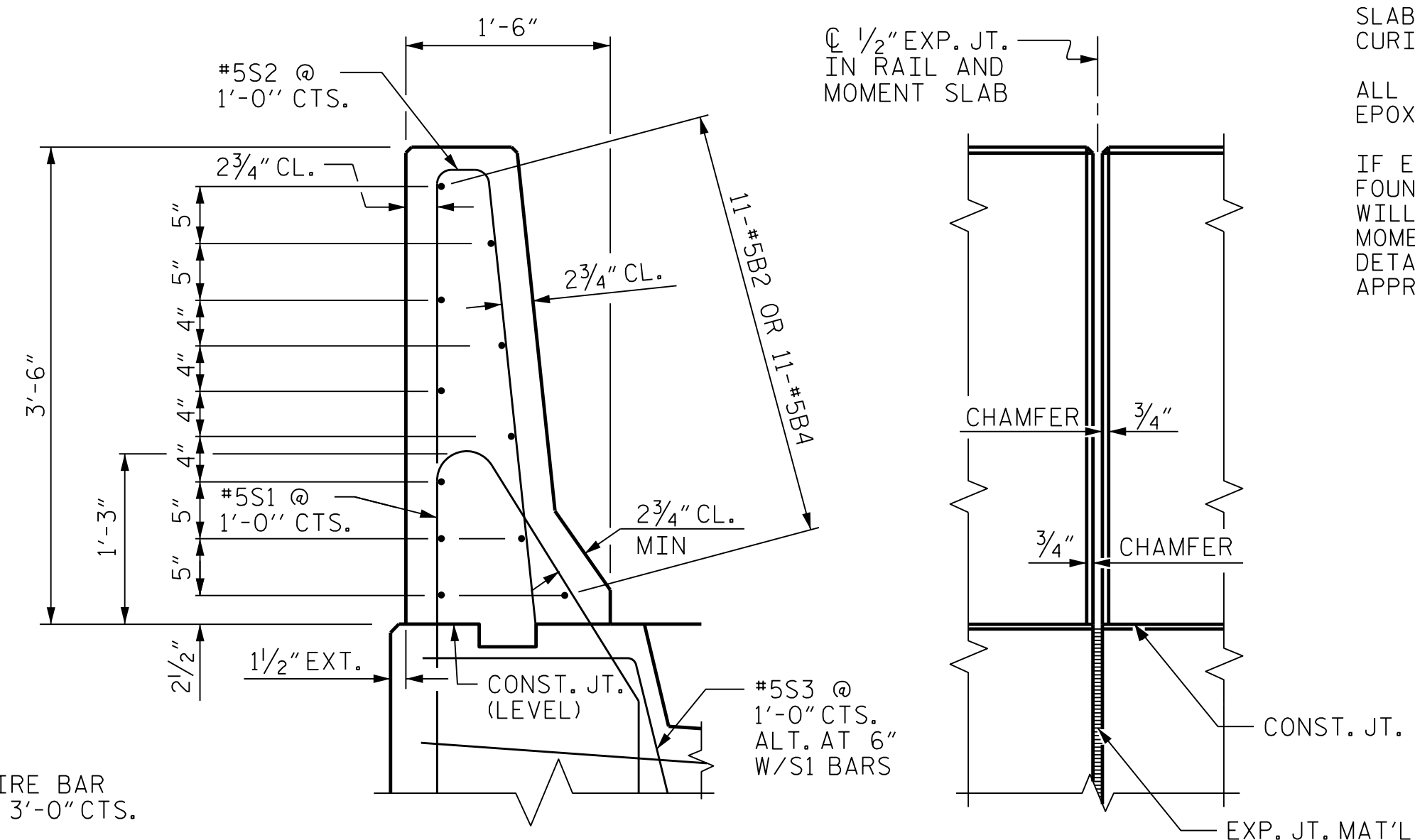


PLAN



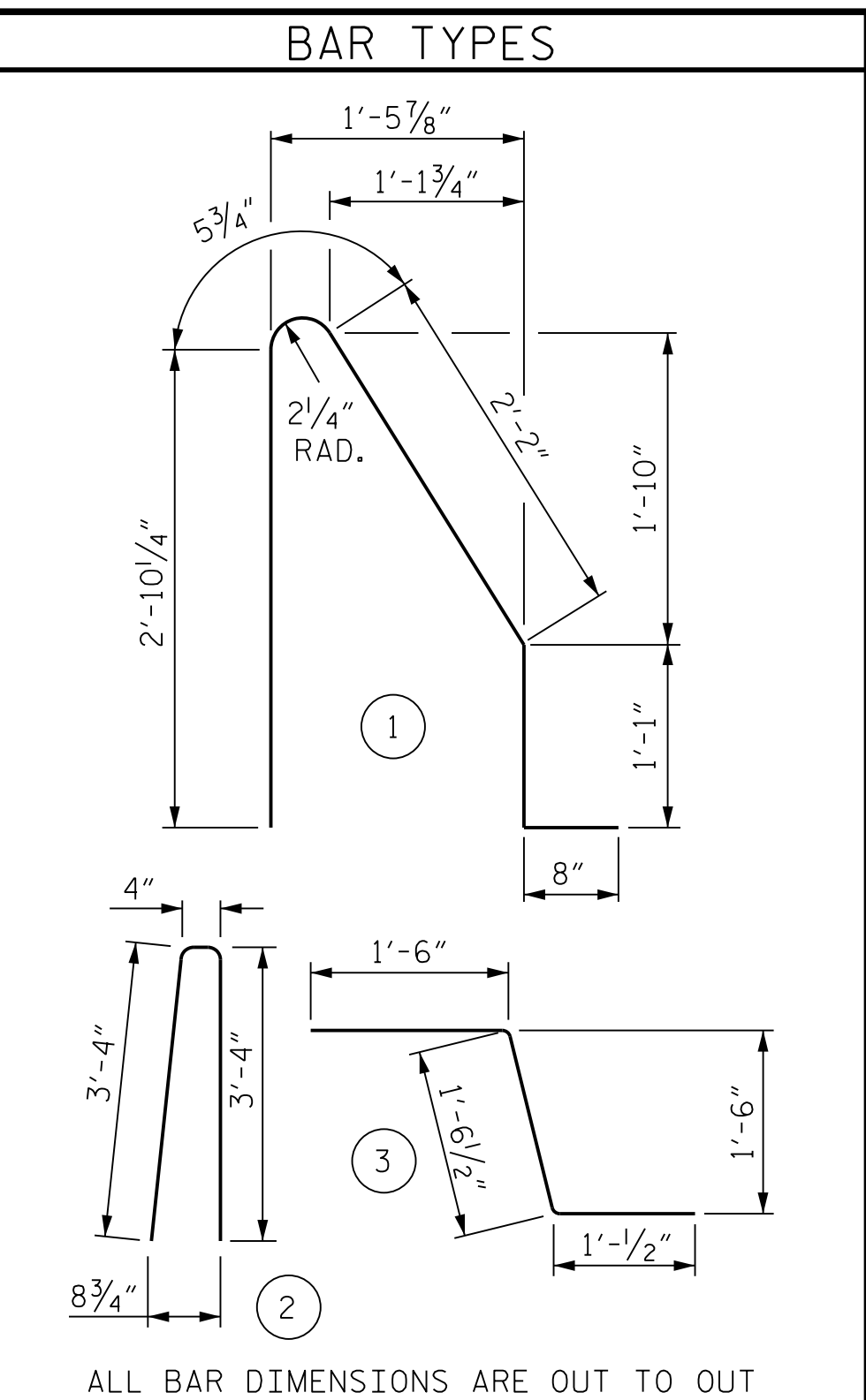
CONCRETE BARRIER RAIL WITH MOMENT SLAB



SECTION THRU RAIL  
ELEV. @ EXP. JOINTS

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 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.



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	14	#4	STR	21'-7"	202
* B2	11	#5	STR	21'-7"	248
B3	14	#4	STR	21'-4"	200
* B4	11	#5	STR	21'-4"	245
G1	44	#5	STR	5'-6"	253
G2	44	#4	STR	5'-6"	162
* S1	44	#5	1	7'-3"	333
* S2	44	#5	2	7'-0"	322
S3	42	#5	3	4'-1"	179
REINFORCING STEEL					996 LB
* EPOXY COATED REINFORCING STEEL					1148 LB
CLASS AA CONCRETE BARRIER RAIL					6.0 CY
CLASS A CONCRETE MOMENT SLAB					13.4 CY
CONCRETE BARRIER RAIL WITH MOMENT SLAB					43.7 LIN FT

PROJECT NO. B-3186/B-5898  
HAYWOOD COUNTY  
 STATION: 68+65.75 ± -L-RT-

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**CONCRETE BARRIER RAIL WITH MOMENT SLAB DETAILS**



Eric Nolting 1/25/2022

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1	--	--	3	--	--
2	--	--	4	--	--

SHEET NO. 503R-50  
 TOTAL SHEETS 61

PLOT DRIVER: NCDOT STRUCTURES DEFAULT PLOTTER.plt  
 USER: PPETERSO DATE: 1/24/2022  
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 TIME: 2:46:13 PM

DES BY: E. NOLTING DATE: 07/21 DWG BY: B. PETERSON DATE: 07/21  
 DES CHK: H. ABU NIMEH DATE: 08/21 CHK BY: H. ABU NIMEH DATE: 08/21



DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED