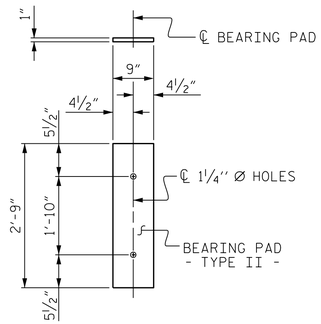
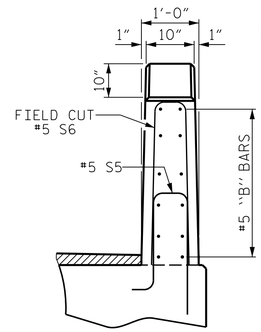


FIXED END

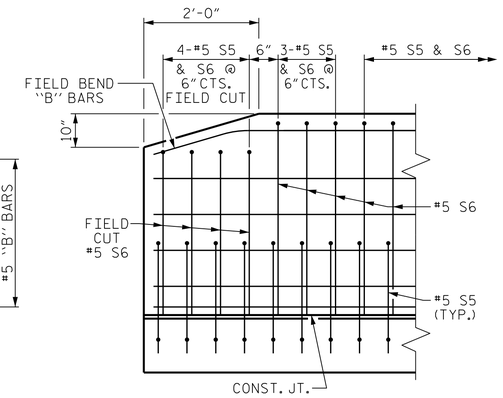
(TYPE II - 22 REQ'D.)

ELASTOMERIC BEARING DETAILS

ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.

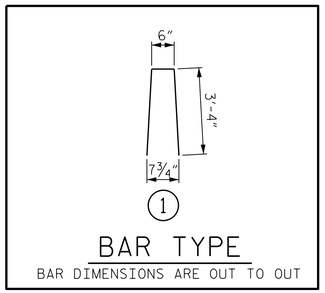


END VIEW



SIDE VIEW

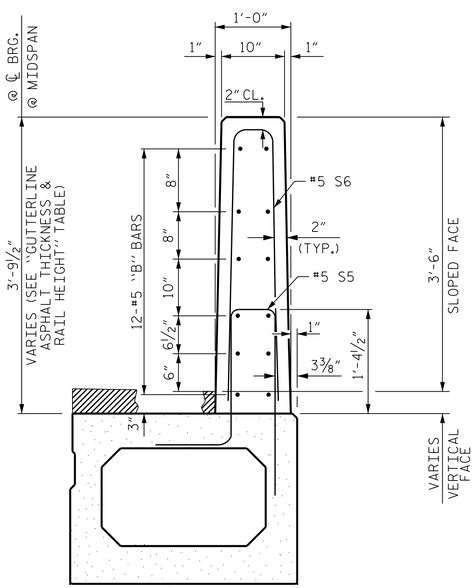
END OF RAIL DETAILS



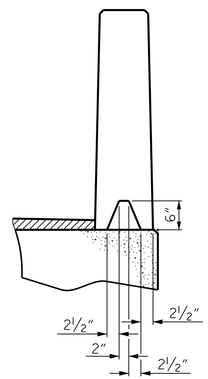
BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

BOX BEAM UNITS REQUIRED			
	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR B.B.	2	100'-0"	200'-0"
INTERIOR B.B.	9	100'-0"	900'-0"
TOTAL	11	———	1100'-0"

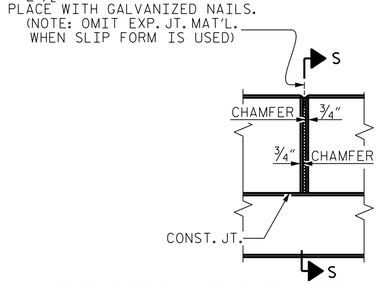


SECTION THRU RAIL



SECTION S-S

AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY
WHEN SLIP FORM IS USED)



ELEVATION AT EXPANSION JOINTS

VERTICAL CONCRETE BARRIER RAIL DETAILS

BILL OF MATERIAL FOR VERTICAL CONCRETE BARRIER RAIL					
BAR	BARS PER PAIR OF EXTERIOR UNITS	SIZE	TYPE	LENGTH	WEIGHT
	100' UNIT				
✳B12	96	#5	STR	24'-7"	2461
✳ S6	276	#5	1	7'-2"	2063
✳ EPOXY COATED REINFORCING STEEL			LBS.		4524
CLASS AA CONCRETE			CU.YDS.		25.9
TOTAL VERTICAL CONCRETE BARRIER RAIL			LN. FT.		200.00

GUTTERLINE ASPHALT THICKNESS & RAIL HEIGHT		
	ASPHALT OVERLAY THICKNESS @ MID-SPAN	RAIL HEIGHT @ MID-SPAN
100' UNITS	2⅜"	3'-8⅜"

PROJECT NO. 17BP.8.R.123

RICHMOND COUNTY

STATION: 15+92.00 -L-

SHEET 5 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

3'-0" X 3'-3"
PRESTRESSED CONCRETE
BOX BEAM UNIT

NORTH CAROLINA PROFESSIONAL SEAL 24939 ENGINEER BYRON E. ATKINSON

4/18/2018

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-8
1			3			TOTAL SHEETS
2			4			15

ASSEMBLED BY:	B.E. LANNING	DATE:	01/18
CHECKED BY :	B.E. ATKINSON	DATE:	02/18
DESIGN ENGINEER OF RECORD:	B.E. ATKINSON	DATE:	02/18
DRAWN BY : DGE 10/11	REV. 4/15	MAA/TMG	
CHECKED BY : TMG 11/11			

STD. NO. 39PCBB8_90S

4/18/2018
11:01:08 AM
User: blanning
Filename: P:\NC Bridges\M16006_CH Eng_Div. 8 Br. Repl. (5 Bridges)\M16006.03_Richmond 64\17BP8R123\Structures\401_015_17BP8R123_SMU_BBU5.dgn