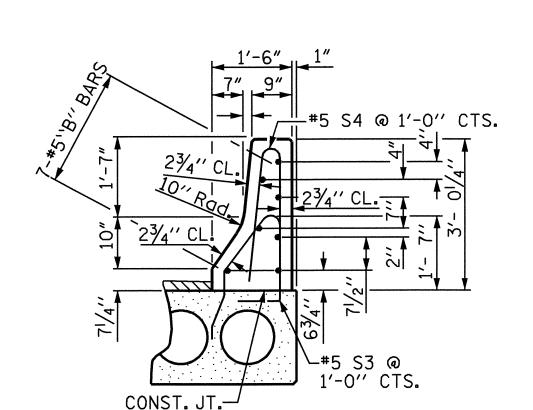
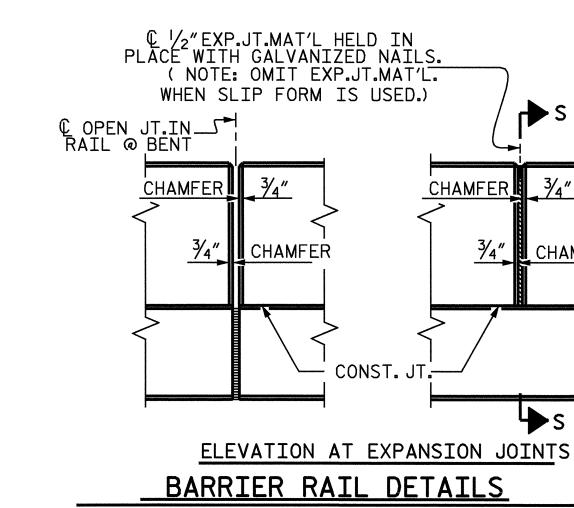


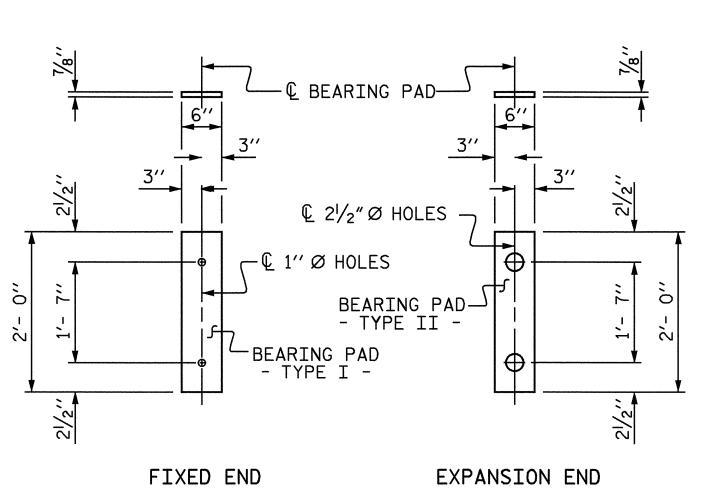
CHAMFER

(TYPE IV - 15 REQ'D)



SECTION THRU RAIL





SPANS "A" & "C"

(TYPE II - 30 REQ'D

SECTION S-S

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

-€ BEARING PAD---€ 21/2" Ø HOLES ¬ — € 1" Ø HOLES BEARING PAD-- TYPE II -BEARING PAD
- TYPE I -**EXPANSION END** FIXED END SPAN "B" SPAN "B"

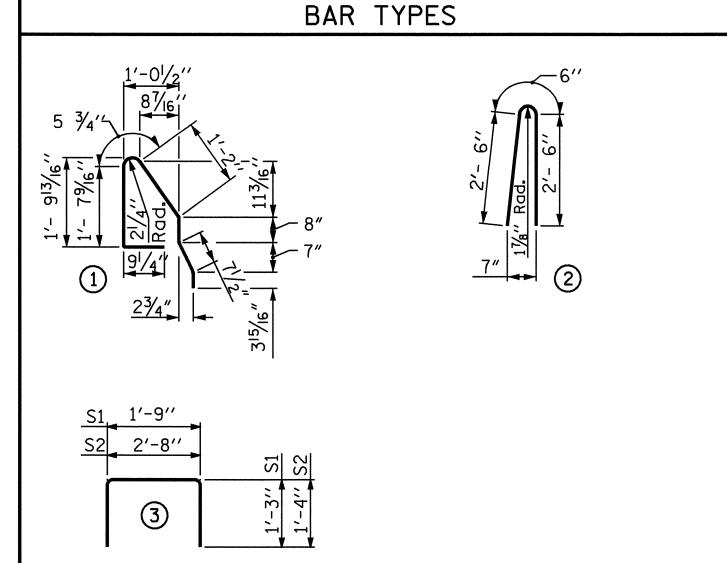
(TYPE III - 15 REQ'D)

ELASTOMERIC BEARING DETAILS

1		
	ASSEMBLED BY : D. A. GLA	
	CHECKED BY: M.G.SH	AIKH DATE : 9-21-04
		REV. 10/17/00 RWW/LES
		REV. 7/10/01 RWW/LES REV. 5/7/03 RWW/JTE

SPANS "A" & "C"

(TYPE I - 30 REQ'D)



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE CORED SLAB SECTION (SPANS "A" OR "C")

				EXTERI	OR UNIT	INTERIOR UNIT		
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	
B1	2	# 4	STR	23'- 5''	31	23'- 5''	31	
S1	8	# 4	3	4'- 3''	23	4'- 3''	23	
S2	46	# 4	3	5'- 4''	164	5'- 4''	164	
* S3	25	# 5	1	5′- 8″	148			
REINFO	ORCING :	STEEL			218 LBS.		218 LBS.	
★ EP0X	Y COATE	ED REIN	FORCING	STEEL	148 LBS.			
5,000	P.S.I.CO	NCRETE		3.	4 CU. YDS.	3.4 CU. YDS.		
1/2″Ø L	.R. STRA	NDS	No.	12		12		

BILL OF MATERIAL FOR ONE CORED SLAB SECTION (SPAN "B")

				EXTERI(OR UNIT	INTERIO	OR UNIT		
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT		
B2	4	# 4	STR	25-10''	69	25-10''	69		
S1	8	# 4	3	4'- 3''	23	4'- 3''	23		
S2	98	# 4	3	5'- 4''	349	5'- 4''	349		
* S3	51	# 5	1	5′- 8″	301				
							2		
REINF(ORCING S	441 LBS.							
* EPOXY COATED REINFORCING STEEL 301 LBS.									
5,000	P.S.I.CC	6.9 CU. YDS.							
1/2"ØL	R. STRA		21						

DEAD LOAD DEFLECTION AND CAMBER SPANS "A" & "C" SPAN "B" 1/2" Ø L B 1/2" Ø L.R.

	STRAND	STRAND
CAMBER (SLAB ALONE IN PLACE)	5/16′′	1 ¹³ / ₁₆ ''
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	0	1/4"
FINAL CAMBER	5/16′′	11/2"

** INCLUDES FUTURE WEARING SURFACE

TOTAL LIN. FT. OF CONCRETE BARRIER RAI

	BIL	L OF	MATE	RIAL	FOR	CONCRE	ETE E	BARRI	ER RA	IL
BAR		BARS PER SPAN					SIZE	TYPE	LENGTH	WEIGHT
		SPAN A	SPAN B	SPAN C						
₩ B3		14		14		28	#5	STR	23'- 5''	684
₩ B4			14			14	#5	STR	25'- 1''	366
★ B5			14			14	#5	STR	24'- 1''	352
* \$4		50	102	50		202	#5	2	5'- 6"	1159
* EPOXY COATED REINFORCING STEEL 2561 LBS.										
CLAS	CLASS AA CONCRETE 23.6 CU.YDS.									

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE 21/2" Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE 21/2" Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO 11/2" ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE SELOW MODULUS SILICONE SEALANT. THE 2" Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

VERTICAL GROOVED CONTRACTION JOINTS, 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. A VERTICAL 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.

FOR ELASTOMERIC BEARINGS. SEE SPECIAL PROVISIONS.

ELASTOMER IN ALL BEARINGS, SHALL BE 60 DUROMETER HARDNESS.

CORED SLABS REQUIRED									
1	SPAI	SPAN "A" SPAN "B" SPAN "C"							
	NUMBER	LENGTH	NUMBER	LENGTH	NUMBER	LENGTH	LENGTH		
EXTERIOR C.S.	2	23'- 9¾''	2	49'-101/2''	2	23'- 93/4''	195'- 0''		
INTERIOR C.S.	13	23'- 9¾''	13	49'-101/2''	13	23'- 93/4''	1267'- 6''		
TOTAL						·	1462'- 6''		

PROJECT NO. B-3454FORSYTH COUNTY STATION: 20+93.00 -L-



195.50 LIN. FT

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD 3'-0" X 1'-9" SLAB UNIT

CTOBER			-		1981
	REV	ISIONS	-		SHEET NO.
BY:	DATE:	NO.	BY:	DATE:	5-12
		3		·	TOTAL SHEETS
		4			27