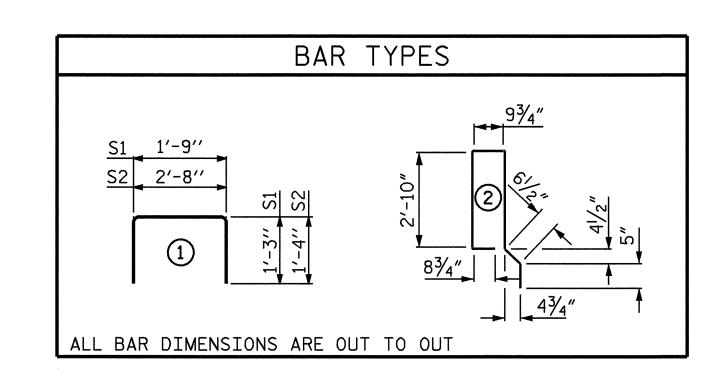
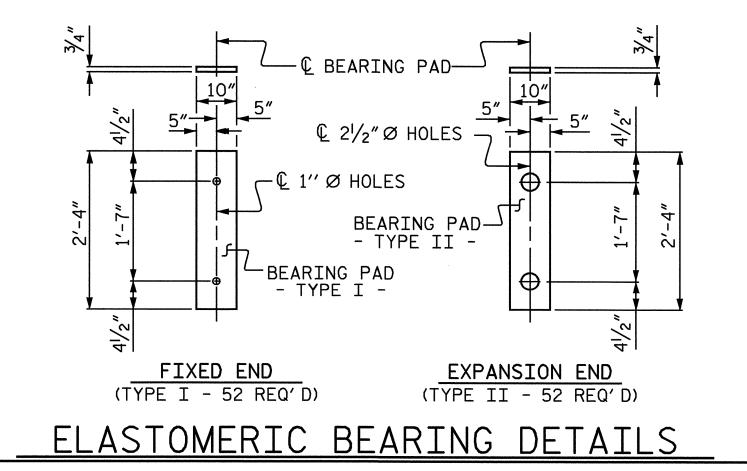
			BI	ILL OF		CAL FOF				ECTION					
							STA	GE 1		,			STAC	GE 2	
				TYPE I	UNIT	TYPE I	I UNIT	TYPE II	I UNIT	TYPE I	V UNIT	TYPE \	/ UNIT	TYPE V	I UNIT
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
B1	4	#4	STR	26'-0"	69	26′-0″	69	26′-0″	69	26'-0"	69	26′-0″	69	26'-0"	69
S1	8	#5	1	4'-3"	35	4'-3"	35	4'-3"	35	4'-3"	35	4'-3"	35	4′-3″	35
S2	98	#4	1	5′-4″	349									5′-4″	349
S2	78	#4	1	Programme of the state of the s	-	5′-4″	278	5′-4″	278	5′-4″	278	5′-4″	278		
* S3	51	#5	2	8'-2"	434									8'-2"	434
REINFORCING STEEL LBS.		LBS.		453		382		382		382		382		453	
	Y COATED FORCING		LBS.		434										434
5,000	P.S.I. CO	NCRETE	CU. YDS.		7.0		7.0		8.4		7.0		6.9	***************************************	7.0
1/2" Ø L	.R. STRAI	NDS	No.		22		22		25		22		22		22



DEAD	LOAD DEF	LECTION A	AND CAMBE	R		
		STA	STAGE 2			
	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V	TYPE VI
	½″Ø L.R. STRAND	½″Ø L.R. STRAND	½″Ø L.R. STRAND	½″Ø L.R. STRAND	½″Ø L.R. STRAND	½″Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	2″ ∤	2″ 🛉	2 ¹ / ₁₆ " 🛉	2″ 🛉	2″ 🛉	2″ 🛉
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD **	5⁄16″ ♦	5/16″ ♥	1/4″ ₩	5/16″ ♥	5/16″ ♥	5/16″ ♥
FINAL CAMBER	1 ¹ / ₁₆ ″ ♦	1 ¹ 1∕16″ أ	1 ¹³ ∕ ₁₆ ″ ∤	1 / ₆ ″ ♦	1 ¹ 1∕16″ ∳	1 / ₆ " ∮

** INCLUDES FUTURE WEARING SURFACE



CORED SLABS REQUIRED							
SPAN "A"	', '`B'', '`C'', & '`D''	NUMBER	LENGTH	TOTAL LENGTH			
STAGE 1	TYPE I	4	49'-101/2"	199′-6″			
	TYPE II	20	49'-101/2"	997′-6″			
	TYPE III	4	49'-101/2"	199′-6″			
	TYPE IV	4	49′-101/2″	199′-6″			
	STAGE 1 TOTAL	32		1596′-0″			
STAGE 2	TYPE V	16	49'-101/2"	798′-0″			
	TYPE VI	4	49'-101/2"	199′-6″			
	STAGE 2 TOTAL	20		997′-6″			
	TOTAL	52		2593.50 L.F.			

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 B LOW MODULUS SILICONE SEALANT. THE 2" Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. THE 12" WIDE BOND BREAKING TAPE SHALL BE CENTERED OVER THE JOINT AND CONFORM TO THE REQUIREMENTS OF TYPE N BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

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 PARAPETS SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.

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

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

PRESTRESSED CONCRETE CORED SLAB UNITS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR. SEE SPECIAL PROVISION FOR CALCIUM NITRITE CORROSION INHIBITOR.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

GRADE 270 ST	TRANDS
	½″Ø L.R.
AREA (SQUARE INCHES)	0.153
(SQUARE INCHES) ULTIMATE STRENGTH (LBS.PER STRAND)	41,300
APPLIED PRESTRESS (LBS.PER STRAND)	30,980

PROJECT NO. B-3348 HYDE COUNTY STATION: 22+85.00 -L-

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

3'-0" X 1'-9"



PRESTRESSED CONCRETE CORE SLAB UNIT	D
REVISIONS	SHEE

	REVISIONS							
BY:	DATE:	NO.	BY:	DATE:	S-49			
		3			TOTAL SHEETS			
		4			76			

ASSEMBLED BY: P.C. BREWER DATE: 1/16/03 CHECKED BY: T.N. CARROLL DATE: 3/10/03