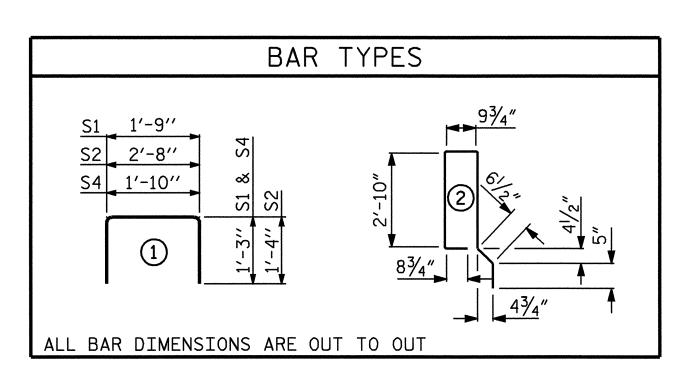
BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN "A", "B", OR "C"													
				STAGE 1				STAGE 2					
				TYPE ]	I UNIT	TYPE I	I UNIT	TYPE I	II UNIT	TYPE I	V UNIT	TYPE \	/ UNIT
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
B1	4	#4	STR	24'-0"	64	24'-0"	64	24'-0"	64	24'-0"	64	24'-0"	64
S1	8	#5	1	4'-3"	35	4'-3"	35			4′-3″	35	4'-3"	35
S2	90	#4	1	5'-4"	321							5′-4″	321
S2	72	#4	1		**************************************	5′-4″	257	5′-4″	257	5′-4″	257		
* S3	47	#5	2	8'-2"	400							8'-2"	400
S4	8	#5	1					4'-4"	36				
REINF	ORCING S	STEEL	LBS.		420		356		357		356		420
₩ EPOX REIN	Y COATED	) STEEL	LBS.		400		***************************************		-				400
5,000	P.S.I. CO	NCRETE	CU. YDS.		6.5		6.5		7.8		6.5		6.5
1/2"Ø	L.R. STRA	NDS	No.		19		19		22		19		19



1′-5″
<u> </u>
4
<u> 4″</u> Ø PVC
DECK DRAIN
DECK DRAIN DETAIL
(4 DRAINS REQ'D)

DEAD LOAD DEFLECTION AND CAMBER							
·	STAGE 1 STAGE 2						
	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V		
	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)	1 <sup>9</sup> ⁄ <sub>16</sub> " <b>♦</b>	19/16″ ੈ	1 <sup>9</sup> ⁄16″ <b>♦</b>	1 <sup>9</sup> ⁄ <sub>16</sub> ″ <b>♦</b>	1%6″ ♠		
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD **	1/4″ ♥	1/4″ ♥	1/4″ ♥	³/16″ ♥	3/16″ ♥		
FINAL CAMBER	1 <sup>5</sup> ⁄ <sub>16</sub> " <b>↑</b>	15/16″ ♠	1 <sup>5</sup> / <sub>16</sub> ″ <b>♦</b>	13⁄8″ ♠	13/8″ ♠		

© BEARING PAD						
BEARING PAD - TYPE I -						
FIXED END (TYPE I - 90 REQ'D)						
ELASTOMERIC BEARING DETAILS						

CORED SLABS REQUIRED							
SPAN `	`A'', ``B'', & ``C''	NUMBER	LENGTH	TOTAL LENGTH			
STAGE 1	TYPE I	3	45′-101/2″	137′-71/2″			
	TYPE II	12	45′-101/2″	550′-6″			
	TYPE III	3	45′-101/2″	137′-71/2″			
	STAGE 1 TOTAL	18		825′-9″			
STAGE 2	TYPE IV	24	45′-101/2″	1101′-0″			
	TYPE V	3	45′-101/2″	137'-7 <sup>1</sup> / <sub>2</sub> "			
	STAGE 2 TOTAL	27		1238′-7 <sup>l</sup> / <sub>2</sub> ″			
	TOTAL	45		2064.38 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  $2^{1}/2^{n}$ Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE 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. 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 PARAPET AND END POSTS 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.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

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

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

PROJECT NO. \_\_\_\_\_B-3349 \_\_\_\_\_\_\_ HYDE \_\_\_\_\_ COUNTY STATION: \_\_\_\_15+69.00 -L-\_\_\_\_

DEPARTMENT OF TRANSPORTATION
RALEIGH

3'-0" X 1'-9"

3'-0" X 1'-9"
PRESTRESSED
CONCRETE CORED
SLAB LINTT

		SL.	AD	Ul	A T I	
0	CTOBER					198:
		REV	/ISIONS			SHEET NO.
١.	BY:	DATE:	NO.	BY:	DATE:	S-20
			3			TOTAL SHEETS
)			1			7 44

ASSEMBLED BY: P.C. BREWER DATE: 10/7/03 CHECKED BY: M. BRITT DATE: 11/5/03

DRAWN BY: WJH 4/89 REV. 10/17/00 RWW/LES REV. 7/10/01 RWW/LES REV. 5/7/03 RWW/JTE

SEAL 24390

CHONEER

JAO J. BERMINING

3/7/06