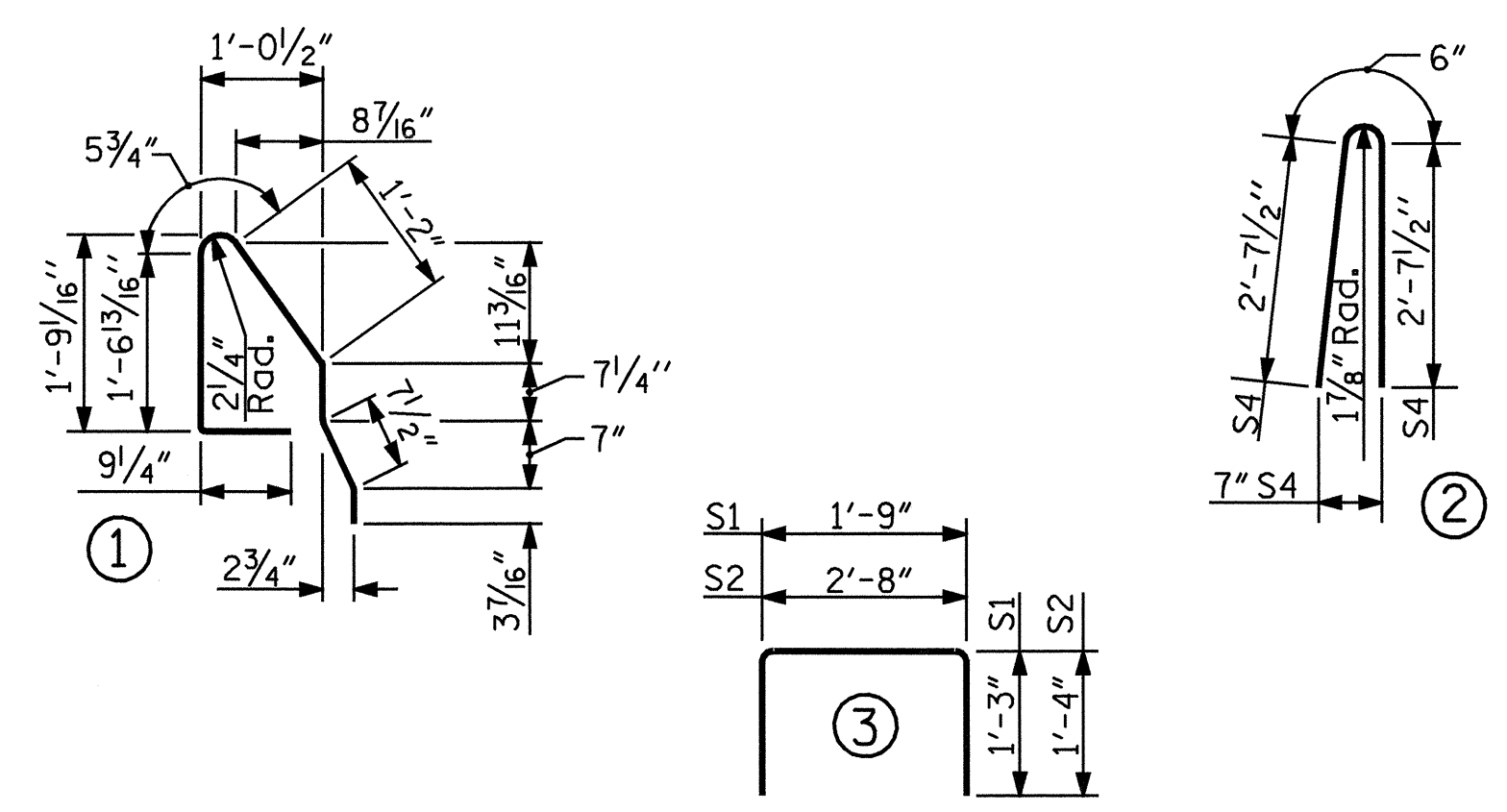


### BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

### BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN A

				EXTERIOR UNIT		INTERIOR UNIT	
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
B1	4	4	STR	17'-9"	47	17'-9"	47
S1	8	4	3	4'-3"	23	4'-3"	23
S2	66	4	3	5'-4"	235	5'-4"	235
* S3	35	5	1	5'-6"	201		
REINFORCING STEEL				LBS.	305	LBS.	305
* EPOXY COATED REINFORCING STEEL				LBS.	201		
5,000 P.S.I. CONCRETE				CU. YDS.	4.8	CU. YDS.	4.8
1/2" Ø L.R. STRANDS				No.	12		12

### SPAN B

				EXTERIOR UNIT		INTERIOR UNIT	
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
B3	4	4	STR	25'-9"	69	25'-9"	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'-6"	292		
REINFORCING STEEL				LBS.	441	LBS.	441
* EPOXY COATED REINFORCING STEEL				LBS.	292		
5,000 P.S.I. CONCRETE				CU. YDS.	6.9	CU. YDS.	6.9
1/2" Ø L.R. STRANDS				No.	23		23

### SPAN C

				EXTERIOR UNIT		INTERIOR UNIT	
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
B5	4	4	STR	15'-3"	41	15'-3"	41
S1	8	4	3	4'-3"	23	4'-3"	23
S2	56	4	3	5'-4"	199	5'-4"	199
* S3	30	5	1	5'-6"	172		
REINFORCING STEEL				LBS.	263	LBS.	263
* EPOXY COATED REINFORCING STEEL				LBS.	172		
5,000 P.S.I. CONCRETE				CU. YDS.	4.1	CU. YDS.	4.1
1/2" Ø L.R. STRANDS				No.	12		12

### DEAD LOAD DEFLECTION AND CAMBER

	SPAN A	SPAN B	SPAN C
CAMBER (SLAB ALONE IN PLACE)	9/16" ↑	2/16" ↓	7/16" ↓
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD ***	1/16" ↓	5/16" ↓	0 ↓
FINAL CAMBER	1/2" ↑	1 3/4" ↑	7/16" ↑

\*\*\* INCLUDES FUTURE WEARING SURFACE

### BILL OF MATERIAL FOR CONCRETE BARRIER RAILS

SPAN A				SPAN B				SPAN C									
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B2	28	5	STR	16'-4"	477	* B4	28	5	STR	24'-5"	713	* B6	28	5	STR	13'-10"	404
* S4	70	5	2	5'-9"	420	* S4	102	5	2	5'-9"	612	* S4	60	5	2	5'-9"	360
* EPOXY COATED REINFORCING STEEL LB.				897		* EPOXY COATED REINFORCING STEEL LB.				1325		* EPOXY COATED REINFORCING STEEL LB.				764	
CLASS AA CONCRETE CU. YDS.				7.9		CLASS AA CONCRETE CU. YDS.				11.6		CLASS AA CONCRETE CU. YDS.				6.7	
TOTAL EPOXY COATED REINF. STEEL LB.				2925		TOTAL EPOXY COATED REINF. STEEL LB.				2925		TOTAL EPOXY COATED REINF. STEEL LB.				2925	
TOTAL CONCRETE AA CU. FT.				26.2		TOTAL CONCRETE AA CU. FT.				26.2		TOTAL CONCRETE AA CU. FT.				26.2	
TOTAL CONCRETE BARRIER RAIL (FT.)				225.43		TOTAL CONCRETE BARRIER RAIL (FT.)				225.43		TOTAL CONCRETE BARRIER RAIL (FT.)				225.43	

### CORED SLABS REQUIRED

	SPAN A			SPAN B			SPAN C		
	NUMBER	LENGTH	TOTAL LENGTH	NUMBER	LENGTH	TOTAL LENGTH	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR C.S.	2	33'-9 1/2"	67'-7"	2	49'-10 1/2"	99'-9"	2	28'-9 1/2"	57'-7"
INTERIOR C.S.	12	33'-9 1/2"	405'-6"	12	49'-10 1/2"	598'-6"	12	28'-9 1/2"	345'-6"
TOTAL	14	33'-9 1/2"	473'-1"	14	49'-10 1/2"	698'-3"	14	28'-9 1/2"	403'-1"

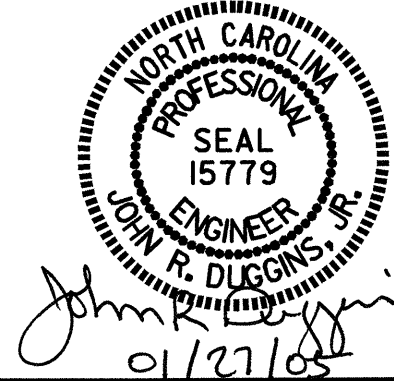
### GRADE 270 STRANDS

	1/2" 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-3887  
PENDER COUNTY  
 STATION: 15+64.50 -L-

SHEET 6 OF 6

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 3'-0" X 1'-9"  
 PRESTRESSED CONCRETE  
 CORED SLAB UNIT



DRAWN BY: J. LAMBERT DATE: 3/2004  
 CHECKED BY: M. POOLE DATE: 4/2004

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-9
1			3			TOTAL SHEETS
2			4			23