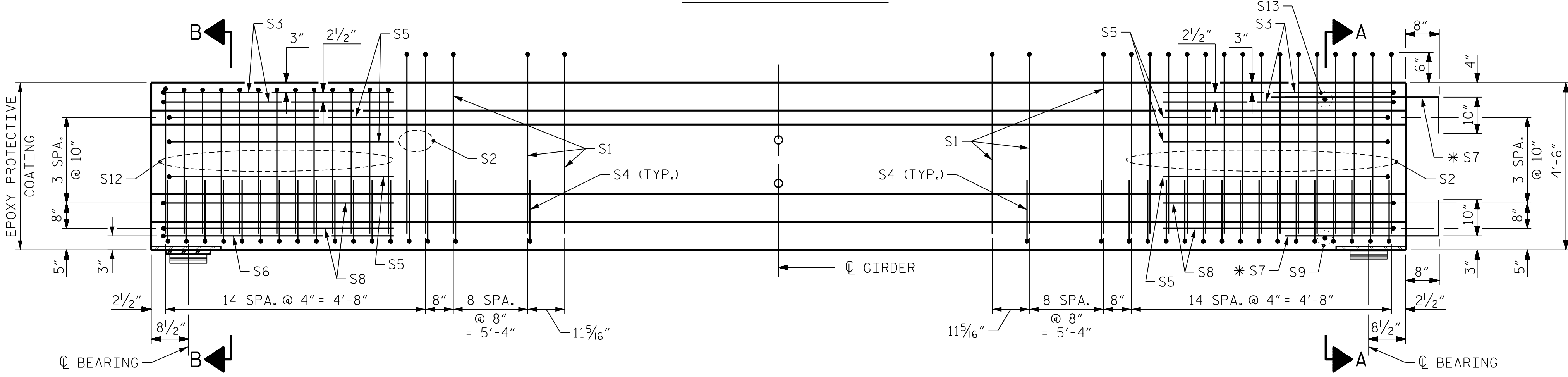
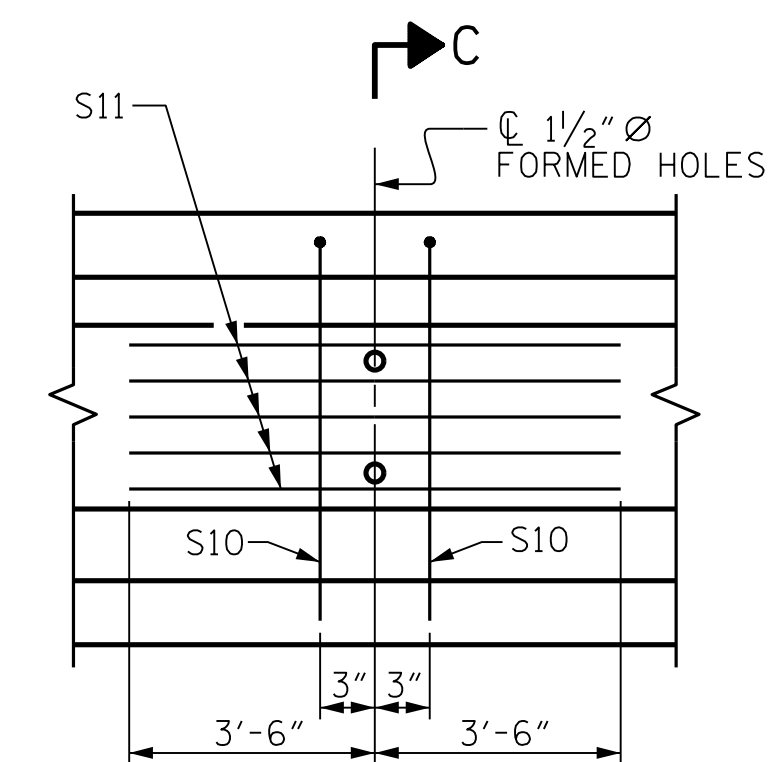
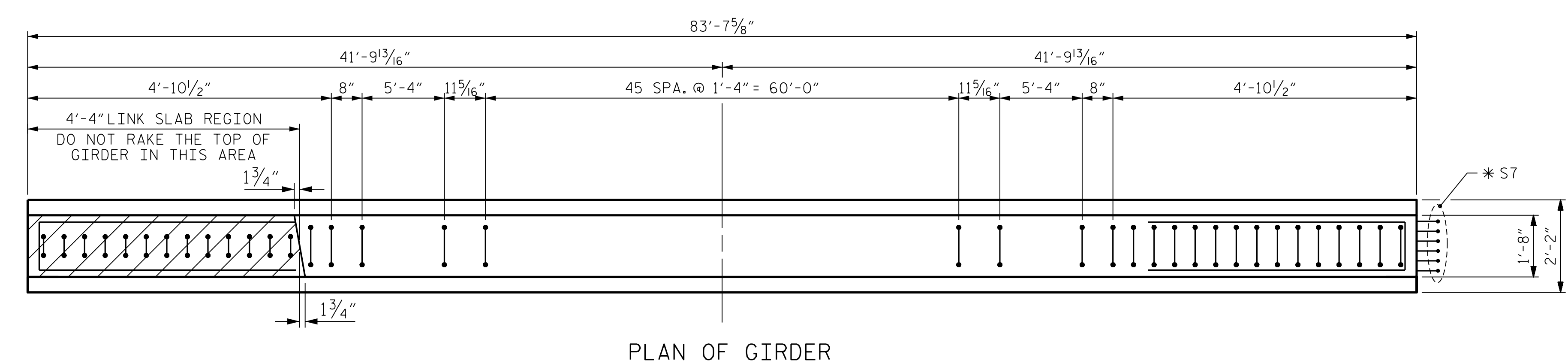


- DEBONDING LEGEND**
- FULLY BONDED STRANDS
  - ▲ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
  - STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER

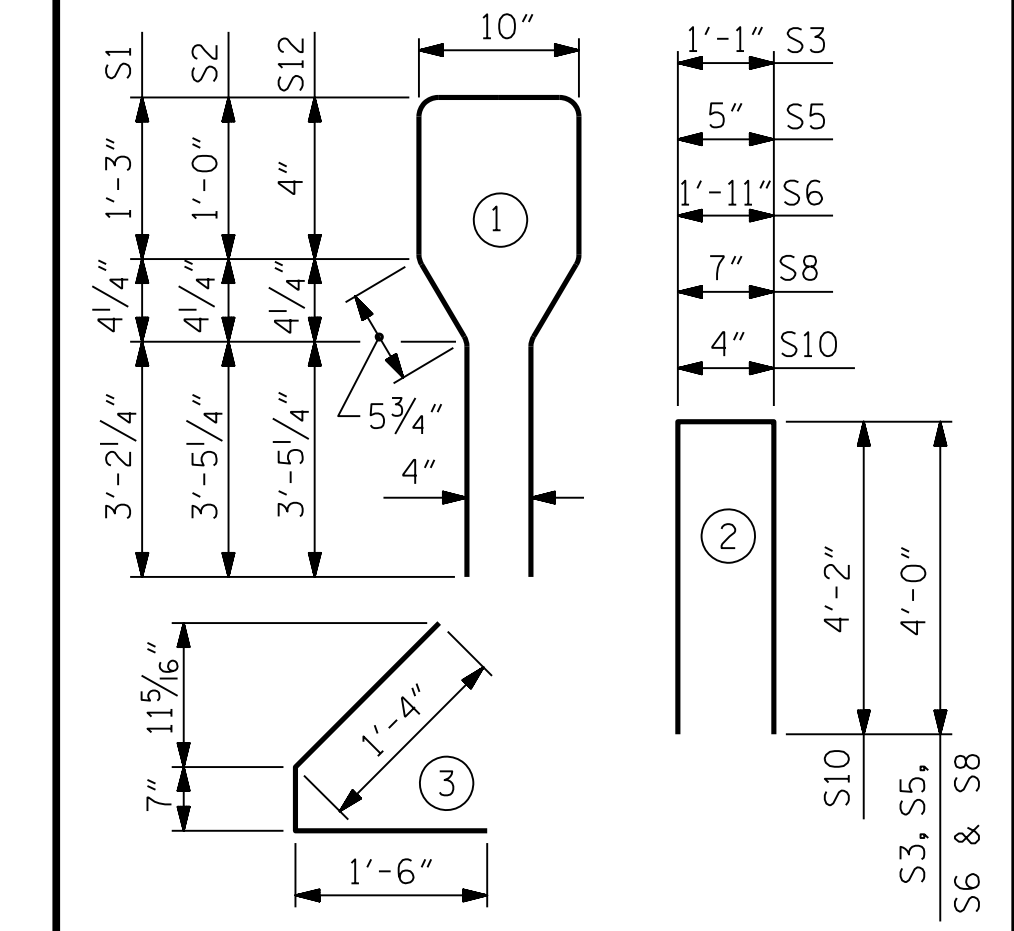


0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQ. INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	64	#4	1	10'-8"	456
S2	17	#6	1	10'-8"	272
S3	4	#4	2	9'-1"	24
S4	96	#4	3	3'-5"	219
S5	6	#4	2	8'-5"	34
S6	1	#4	2	9'-11"	7
*S7	12	#5	STR	3'-8"	46
S8	4	#4	2	8'-7"	23
S9	1	#3	STR	1'-10"	1
S10	2	#5	2	8'-8"	18
S11	5	#4	STR	7'-0"	23
S12	13	#6	1	9'-4"	182
S13	1	#3	STR	1'-4"	1

\* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

**BAR TYPES**  
ALL BAR DIMENSIONS ARE OUT-TO-OUT.



QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	7000 PSI CONCRETE	0.6" Ø L. R. STRANDS	
	LB.	C.Y.	No.
GDR. B1-GDR. B4	1,306	17.0	30

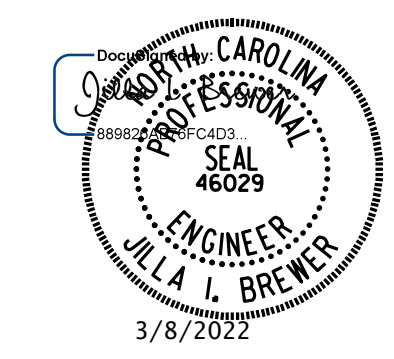
GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	83.64'	334.54'

PROJECT NO. I-5987B  
ROBESON COUNTY  
 STATION: 29+70.72 -Y7-

SHEET 2 OF 4

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUPERSTRUCTURE  
 AASHTO TYPE IV  
 PRESTRESSED CONCRETE  
 GIRDER - LINK SLAB  
 SPAN B



**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					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

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DRAWN BY : D.R. BROWN	DATE : 02/2021
CHECKED BY : J.I. BREWER	DATE : 03/2021
DESIGN ENGINEER OF RECORD : J.I. BREWER	DATE : 03/2022

SHEET NO. **S10-14**  
 TOTAL SHEETS **33**