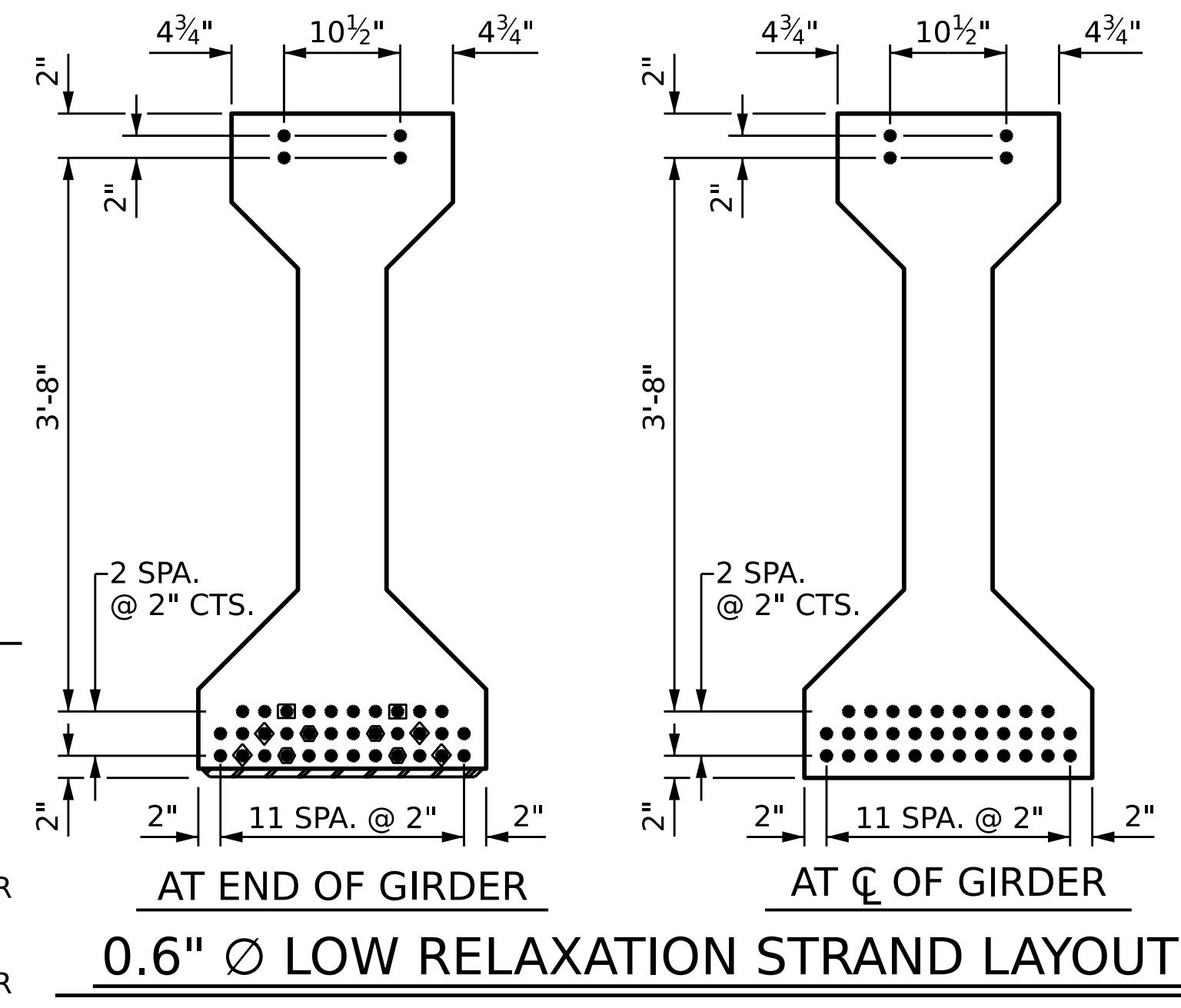


DEBONDING LEGEND

- FULLY BONDED STRANDS
- ◻ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ◊ STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER
- ◉ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

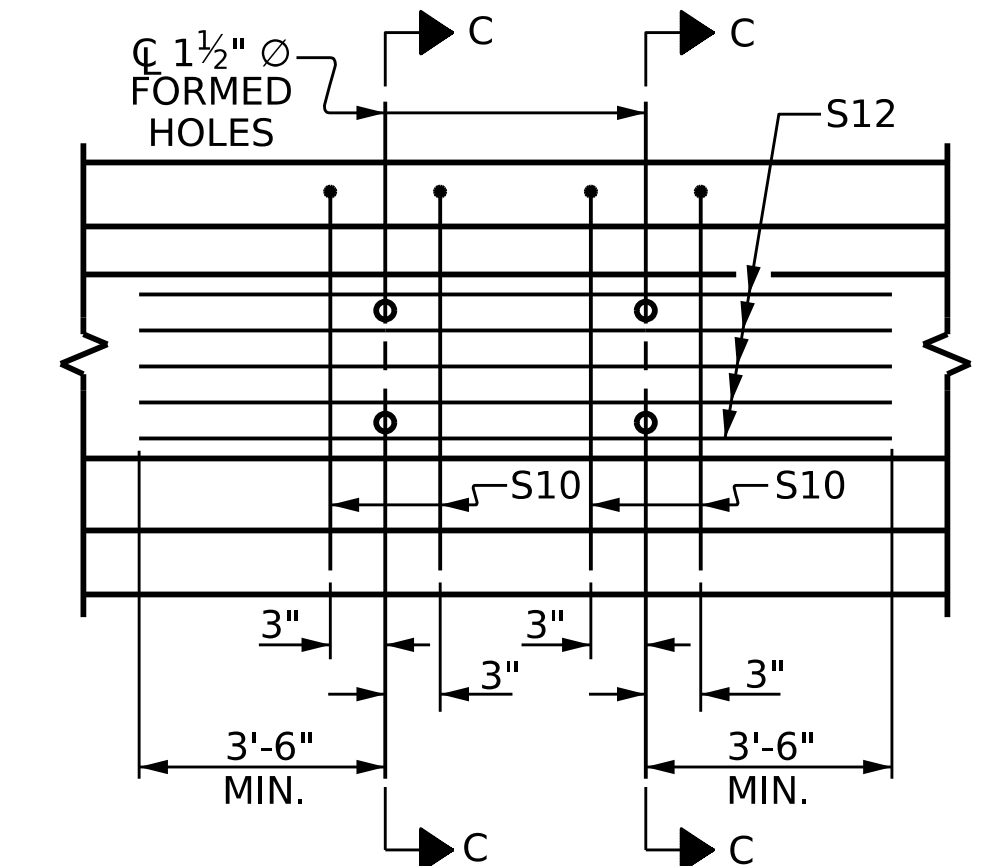
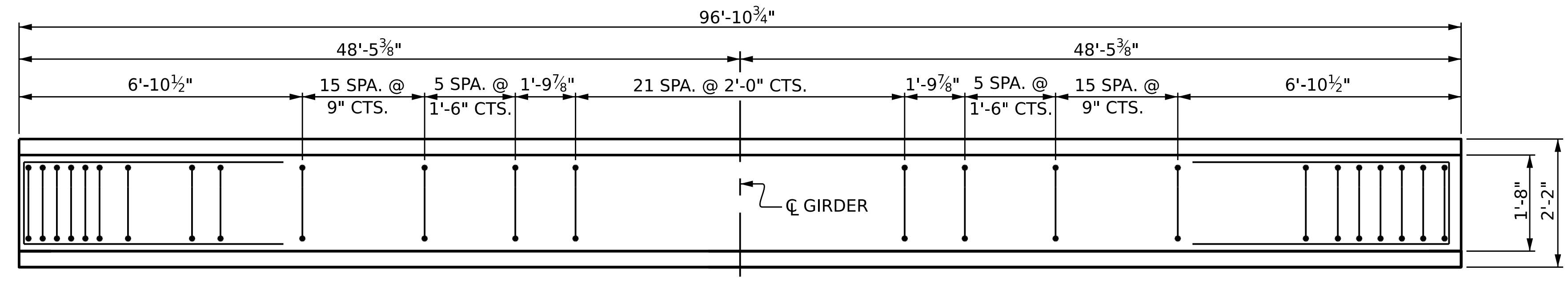
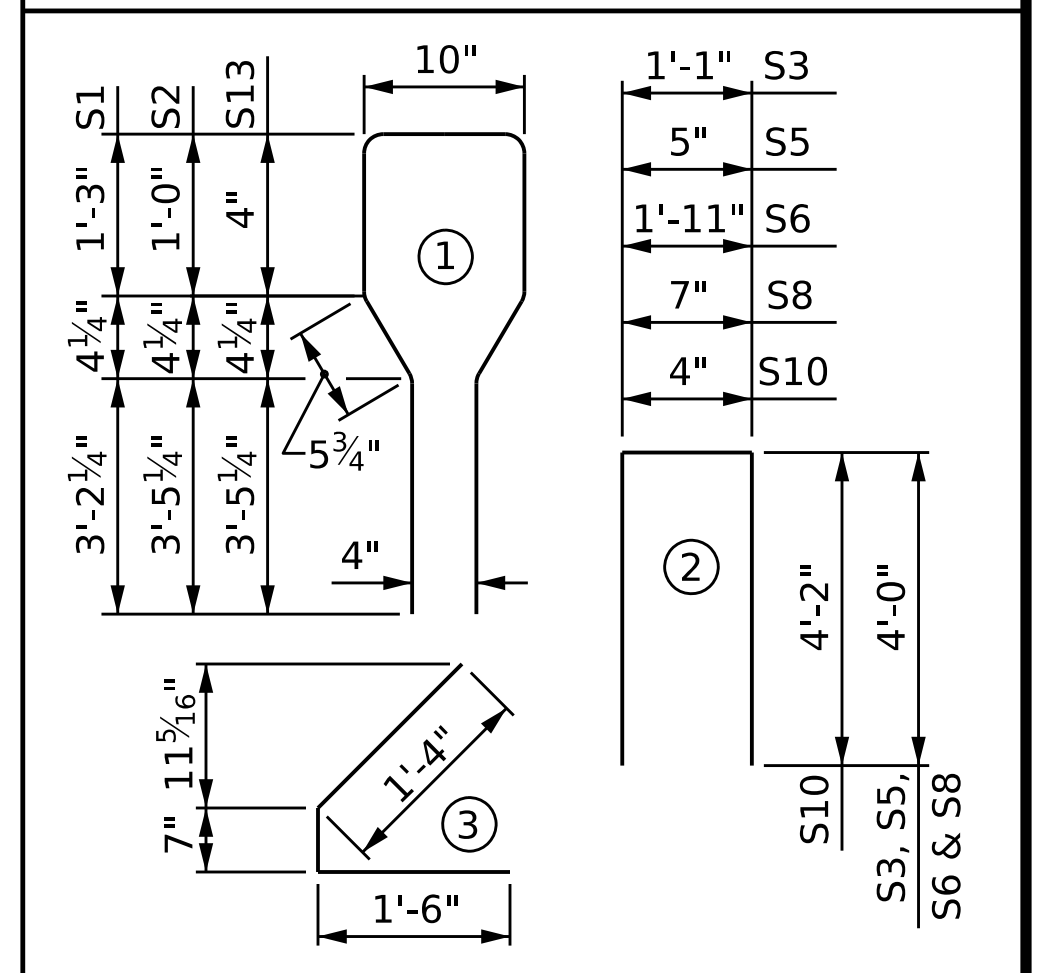


EXTERIOR GDR.	S10	2	#5	2	8'-8"	18
INTERIOR GDR.	S10	4	#5	2	8'-8"	36
EXTERIOR GDR.	S11	5	#4	STR	7'-0"	23
INTERIOR GDR.	S12	5	#4	STR	10'-9"	36
	S13	11	#6	1	9'-4"	154

0.6" Ø L.R. GRADE 270 STRANDS		
AREA (SQUARE 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	77	#4	1	10'-8"	549	
S2	6	#6	1	10'-8"	96	
S3	4	#4	2	9'-1"	24	
S4	64	#4	3	3'-5"	146	
S5	6	#4	2	8'-5"	34	
S6	2	#4	2	9'-11"	13	
S8	4	#4	2	8'-7"	23	
S10	2	#5	2	8'-8"	18	
S10	4	#5	2	8'-8"	36	
S11	5	#4	STR	7'-0"	23	
S12	5	#4	STR	10'-9"	36	
S13	11	#6	1	9'-4"	154	

BAR TYPES

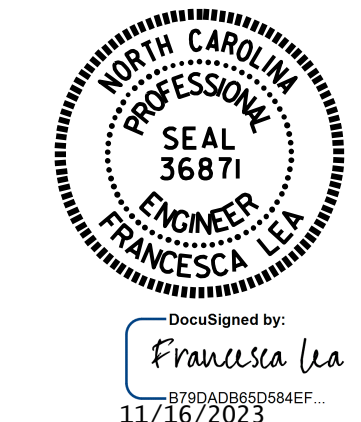
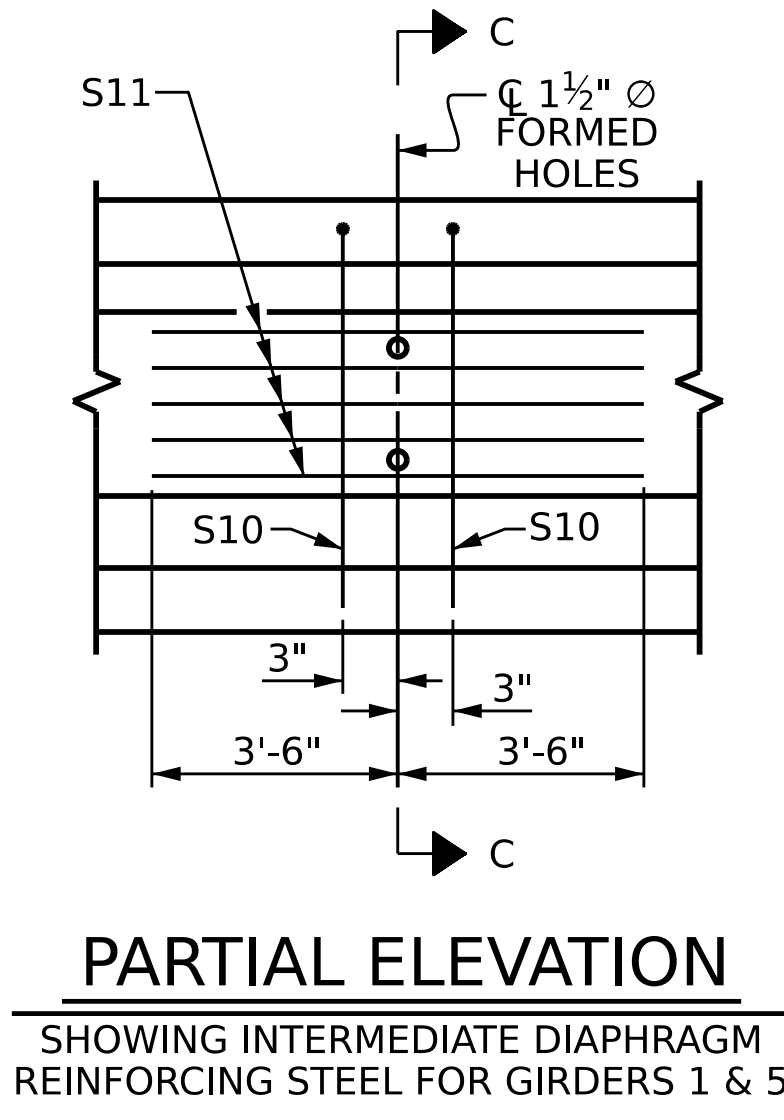
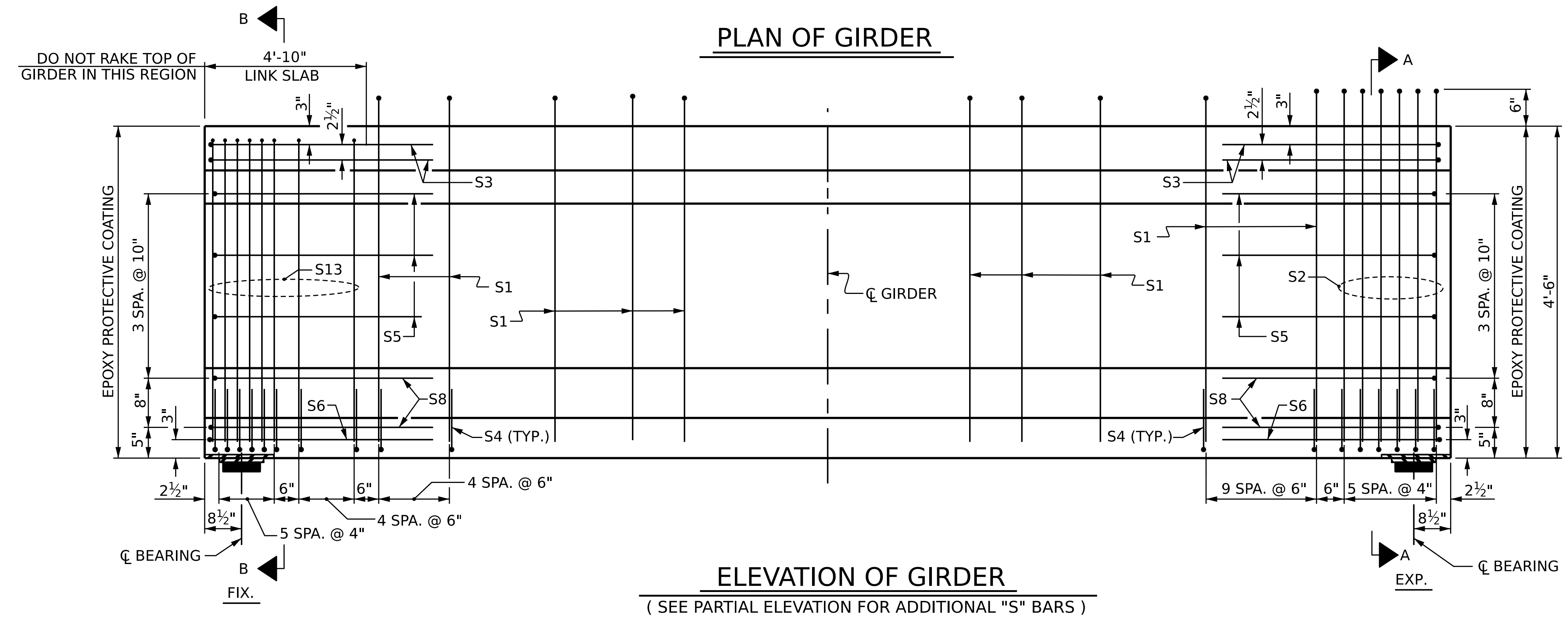


QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	9,000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
EXT. GIRDER	1,080	19.7	38
INT. GIRDER	1,111	19.7	38

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	96'-10 ³ / ₄ "	484'-5 ³ / ₈ "



PROJECT NO. BR-0095
ROCKINGHAM COUNTY
 STATION: 16+91.66 -L-
 SHEET 2 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 AASHTO TYPE IV
 PRESTRESSED CONCRETE
 GIRDER - LINK SLAB
 SPAN B

ASSEMBLED BY : Q. T. NGUYEN DATE : 07/2023
 CHECKED BY : N. S. HART DATE : 07/2023
 DRAWN BY : BNB 09/21
 CHECKED BY : AAI 09/21

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	S-12
1			3	TOTAL SHEETS
2			4	29