

0.6" Ø LOW RELAXATION STRAND LAYOUT

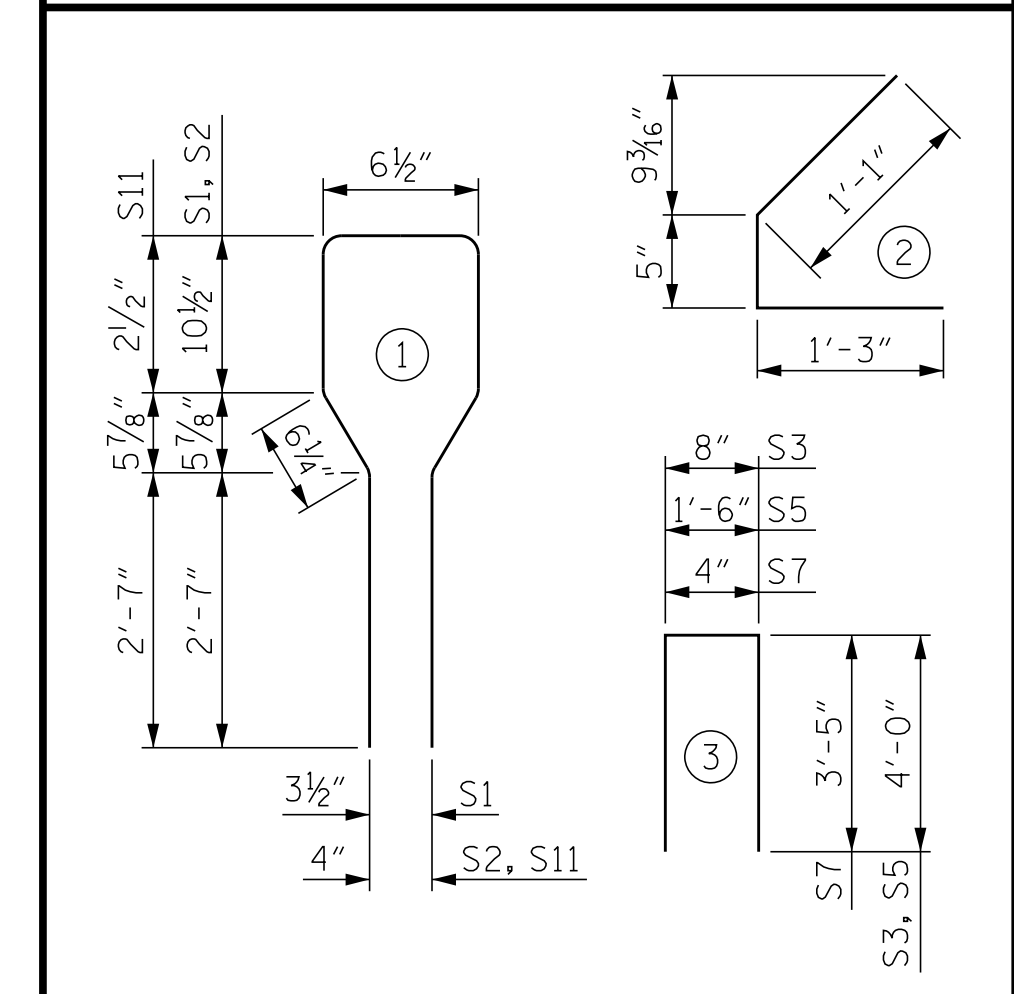
DEBONDING LEGEND

- FULLY BONDED STRANDS
- ▲ FULLY DEBONDED STRANDS

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	45	#4	1	8'-6"	256
S3	4	#4	3	8'-8"	23
S4	40	#4	2	2'-9"	73
S5	2	#4	3	9'-6"	13
S7	2	#5	3	7'-2"	15
S8	5	#4	STR	7'-0"	23
S11	12	#6	1	7'-2"	129

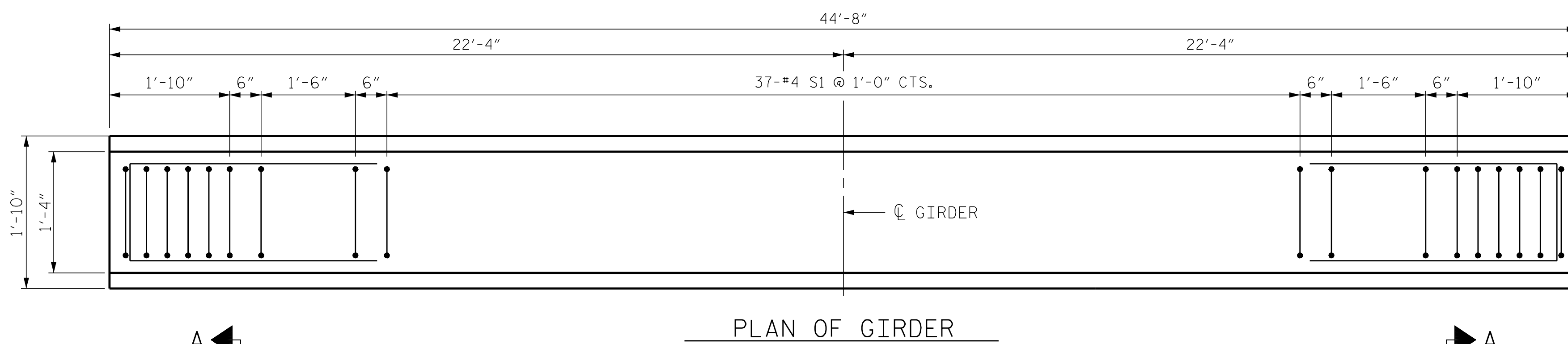
BAR TYPES



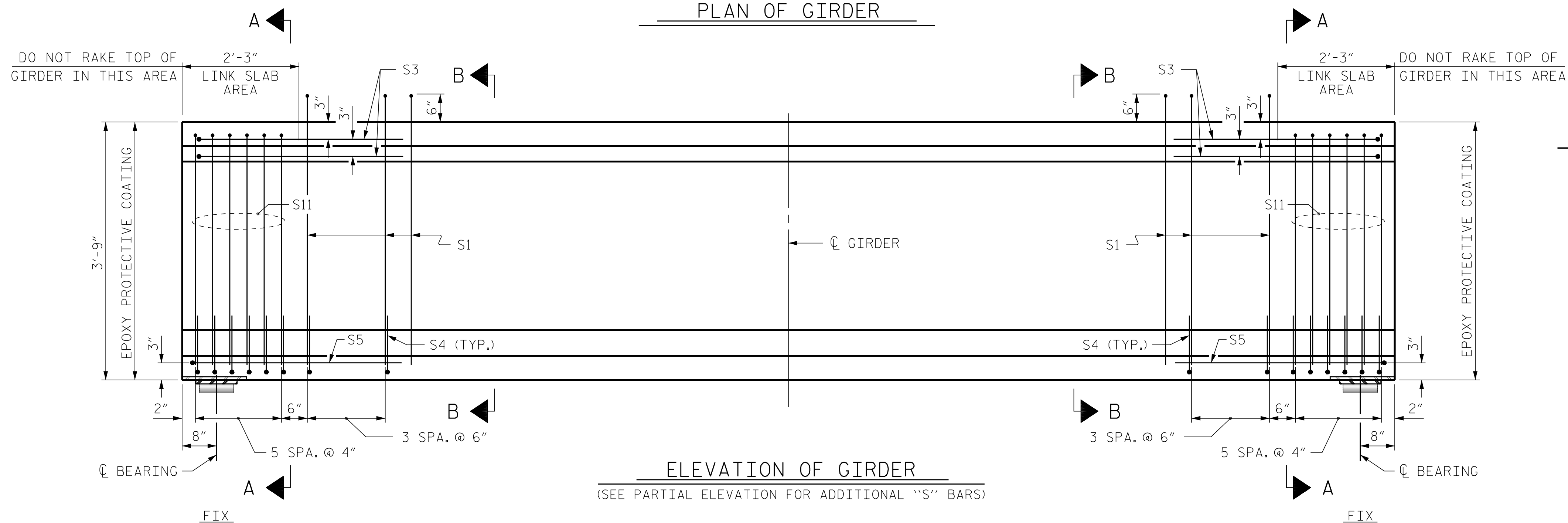
ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	6,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GDR, BG1-BG4	532	6.4	26

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	44'-8"	178'-8"

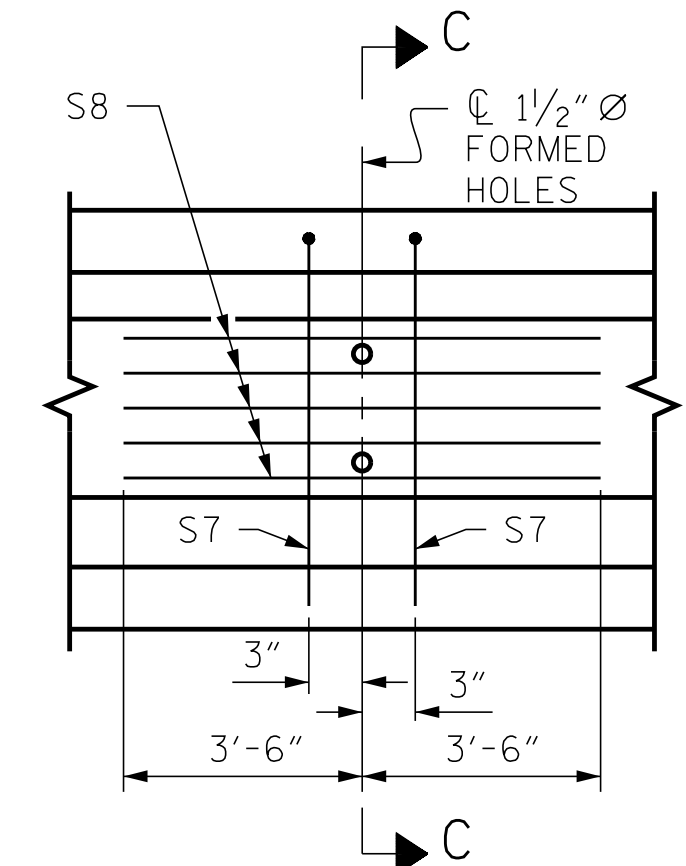


PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

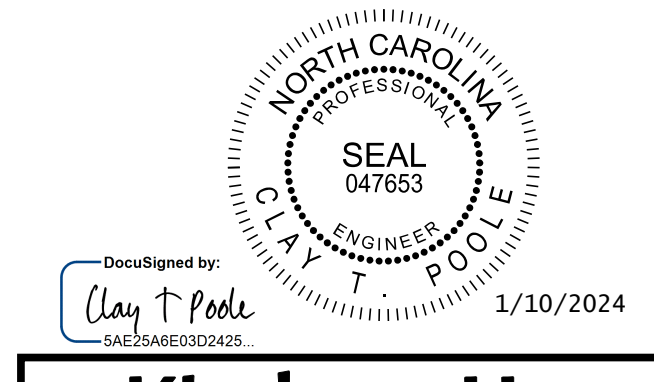
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS

PROJECT NO. B-5156
PENDER COUNTY
 STATION: 22+90.50 -L-

SHEET 2 OF 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 AASHTO TYPE III
 PRESTRESSED CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD
 SPAN B

REVISIONS						SHEET NO. S-17
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 45
2			4			



Kimley»Horn
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601-1772
 Phone (919) 677-2000 NC LICENSE # F-0102

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

1/10/2024 K:\BIDI-Structures\Bridges\NA\011036491 - B-5156\Coor\09\B5156_SML_G2_100208.dgn

ASSEMBLED BY : D. D. LOWERY	DATE : 03/2023
CHECKED BY : C. T. POOLE	DATE : 03/2023
DRAWN BY : ELR 8/91	REV. 1/15 MAA/TMG
CHECKED BY : GRP 8/91	REV. 12/17 MAA/THC
	REV. 11/21 BNB/AAI