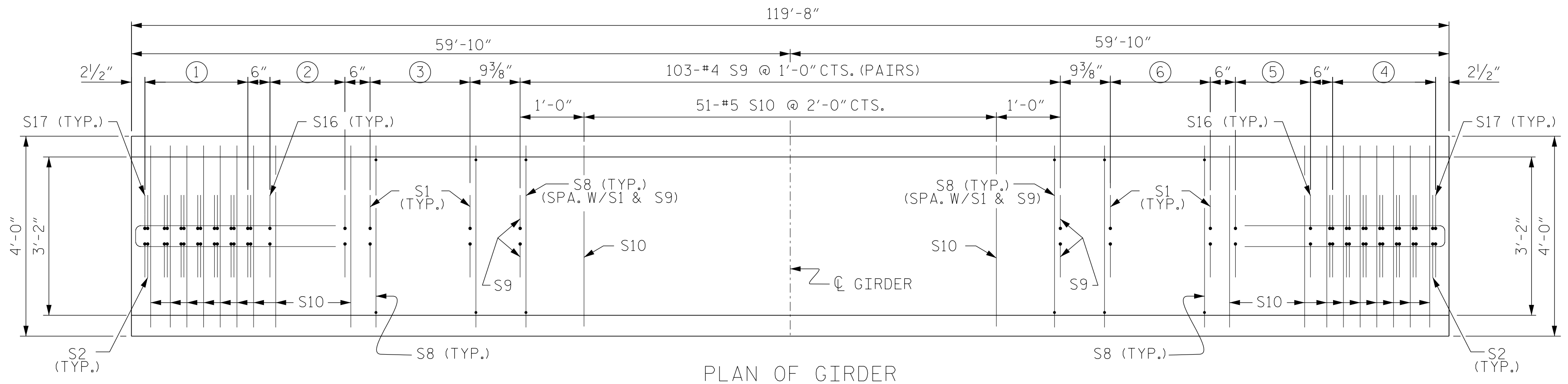


- ① 7-S17 & S2 @ 4" CTS. (PAIRS)
- ② 8-S16 @ 6" CTS. (PAIRS)
- ③ 4-S1 @ 6" CTS. (PAIRS)

- ④ 7-S17 & S2 @ 4" CTS. (PAIRS)
- ⑤ 8-S16 @ 6" CTS. (PAIRS)
- ⑥ 4-S1 @ 6" CTS. (PAIRS)

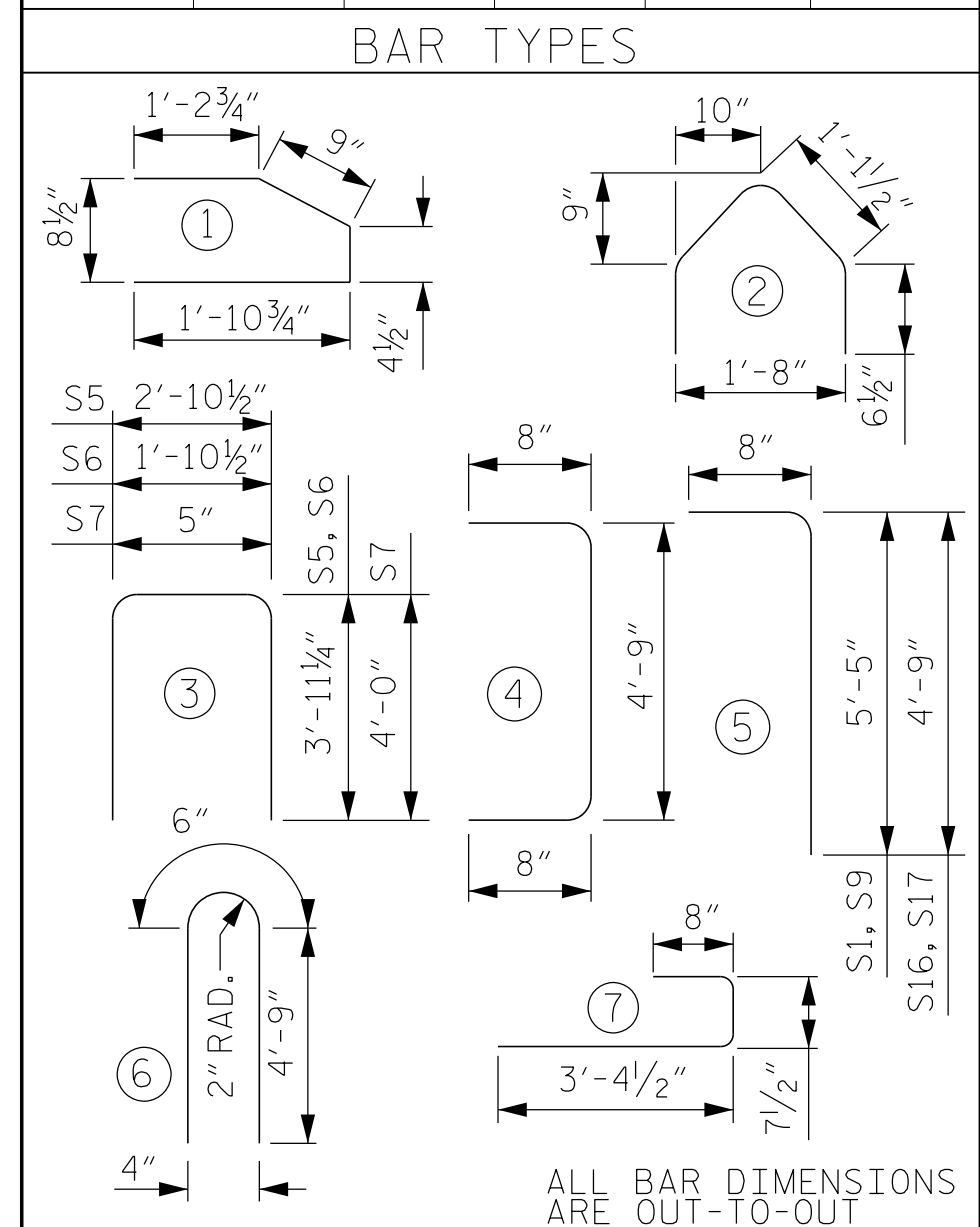
- DEBONDING LEGEND
- FULLY BONDED STRANDS
 - ◊ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
 - ◻ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
 - STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

GIRDER	C	D	E	F
BG1	16'-7 1/4"	22'-9 3/4"	-	-
BG2 & BG3	16'-7 1/4"	16'-7 1/4"	6'-2 1/2"	6'-2 1/2"
BG4	22'-9 3/4"	16'-7 1/4"	-	-



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 GDR						
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
S1	16	#5	5	6'-1"	102	
S2	28	#5	4	6'-1"	178	
S3	38	#3	2	3'-4"	48	
S4	76	#3	1	4'-3"	121	
S5	2	#5	3	10'-9"	22	
S6	2	#5	3	9'-9"	20	
S7	10	#4	3	8'-5"	56	
S8	222	#5	7	4'-8"	1,081	
S9	206	#4	5	6'-1"	837	
S10	81	#5	STR	3'-8"	310	
EXT. S12	8	#5	6	10'-0"	83	
INT. S12	16	#5	6	10'-0"	167	
EXT. S14	10	#4	STR	8'-0"	53	
INT. S15	10	#4	STR	14'-3"	95	
S16	32	#5	5	5'-5"	181	
S17	28	#6	5	5'-5"	228	

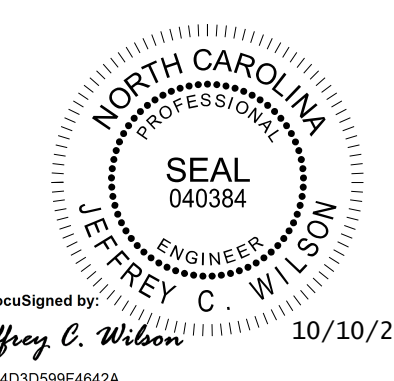


QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	8,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
EXTERIOR GIRDER	3,320	30.7	50
INTERIOR GIRDER	3,446	30.7	50

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	119'-8"	478'-8"

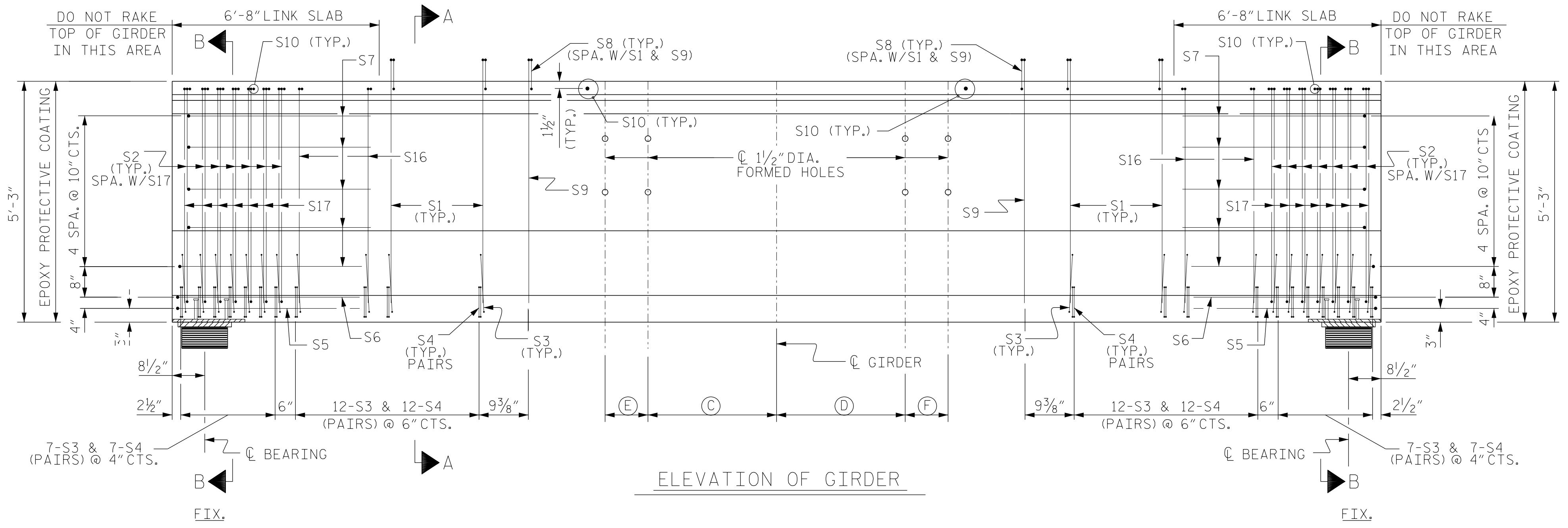
NOTES

FOR PARTIAL ELEVATIONS REFERENCING SECTION C-C, SEE "PRESTRESSED CONCRETE GIRDER FOR LINK SLAB DETAILS" SHEET 4 OF 5.



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DRAWN BY: J. WILSON DATE: 10/22
 CHECKED BY: D. RUGGLES DATE: 10/22
 DESIGN ENGINEER OF RECORD: J. WILSON DATE: 10/22

PROJECT NO. BR-0070
 CASWELL COUNTY
 STATION: 30+57.00 -L-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 63" F.I.B. PRESTRESSED
 CONCRETE GIRDER
 SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-13
1			3			TOTAL SHEETS
2			4			39

BR-0070
 10/10/2022
 BR-0070-SMU.G2.160061.dgn
 USER: jwilson