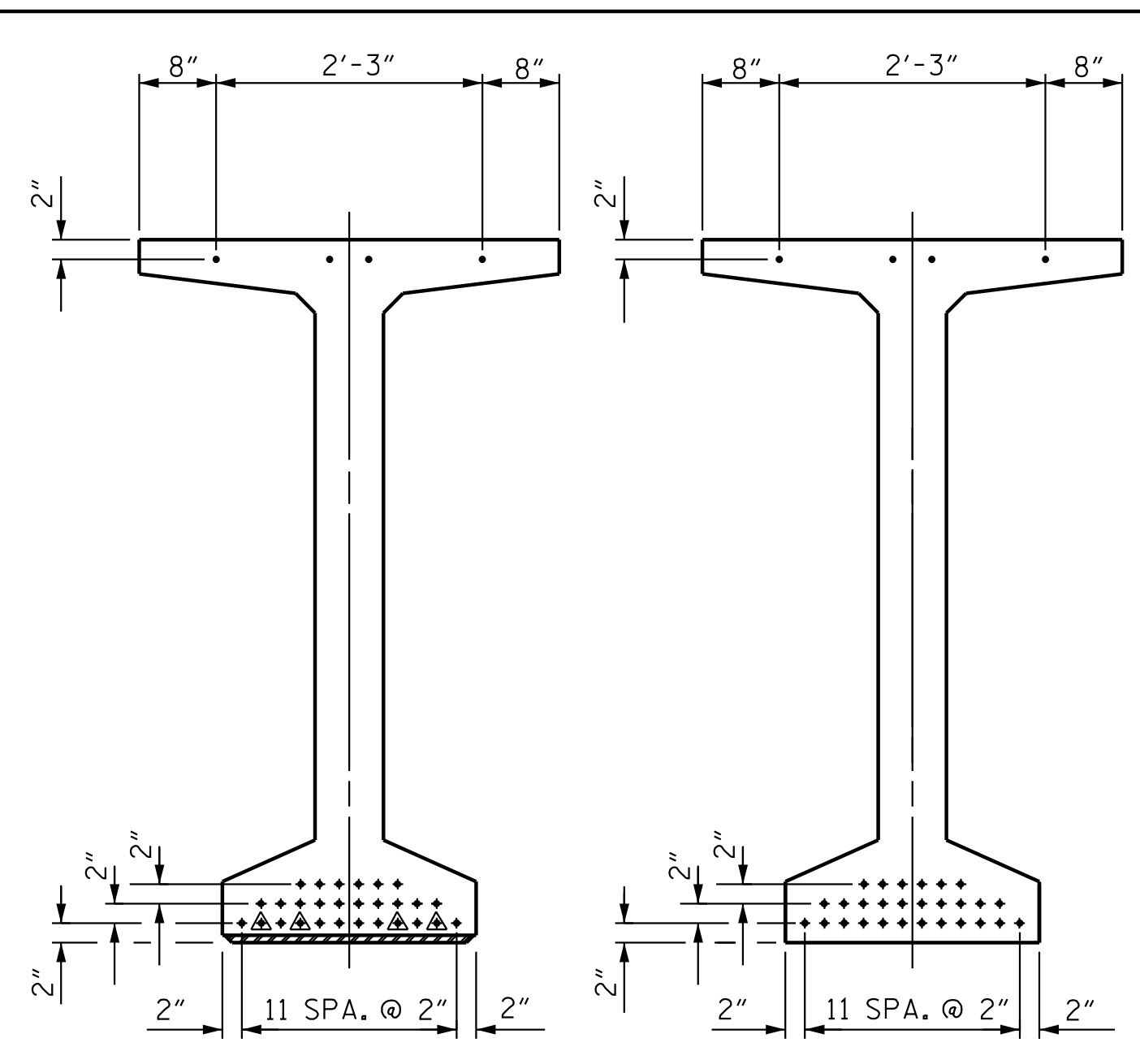


DEBONDING LEGEND

- FULLY BONDED STRANDS
- ▲ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

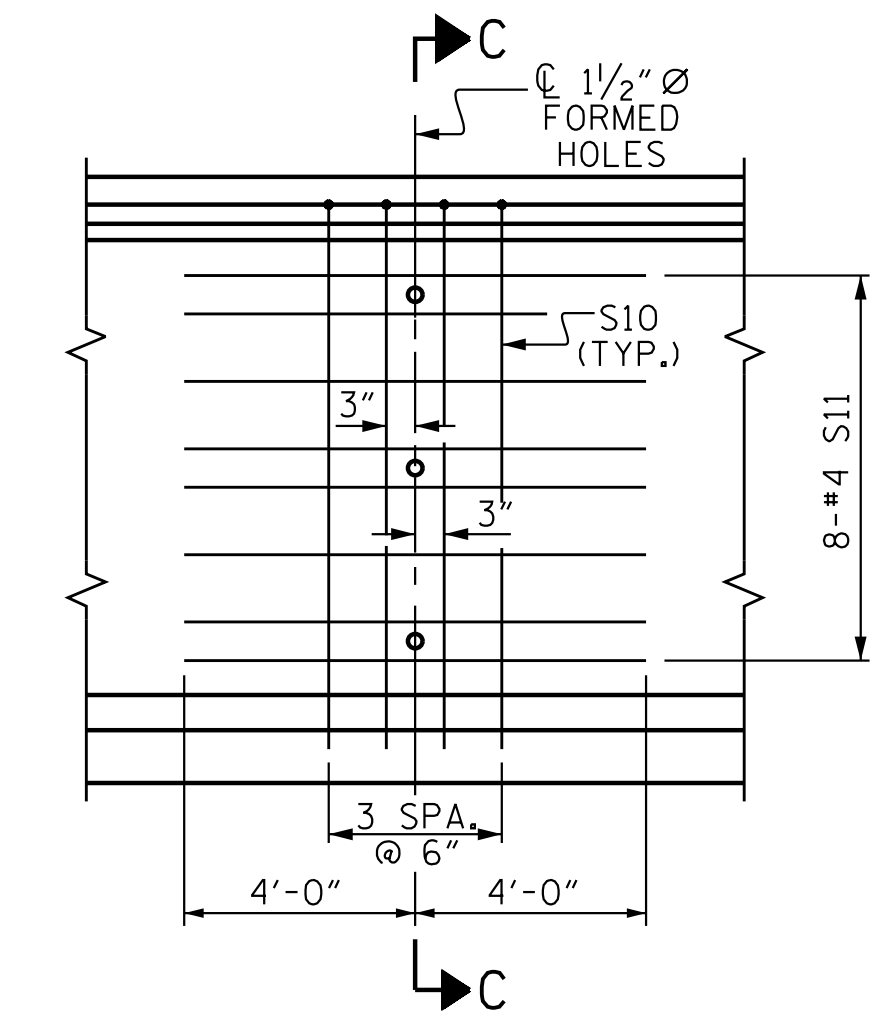
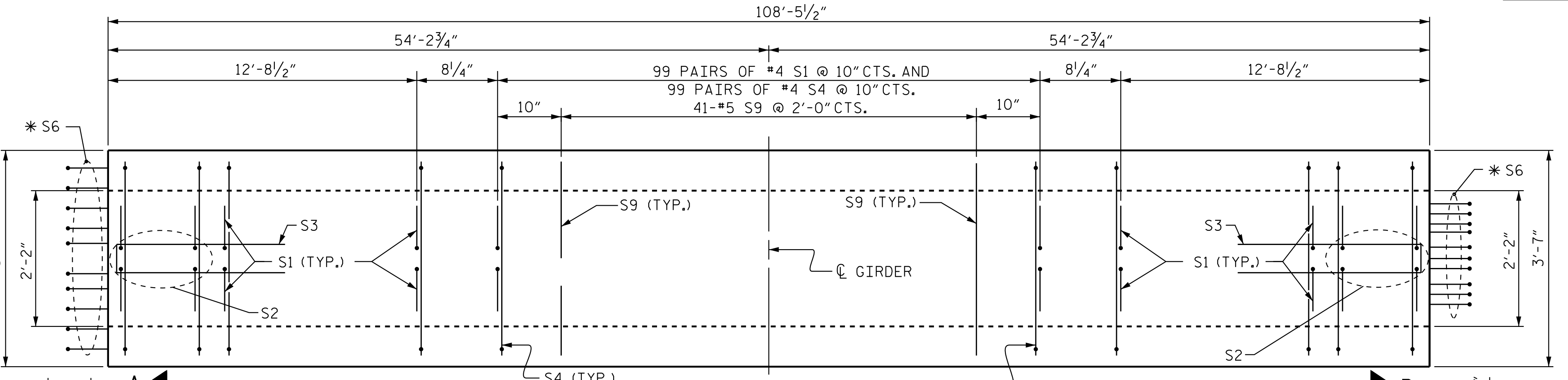
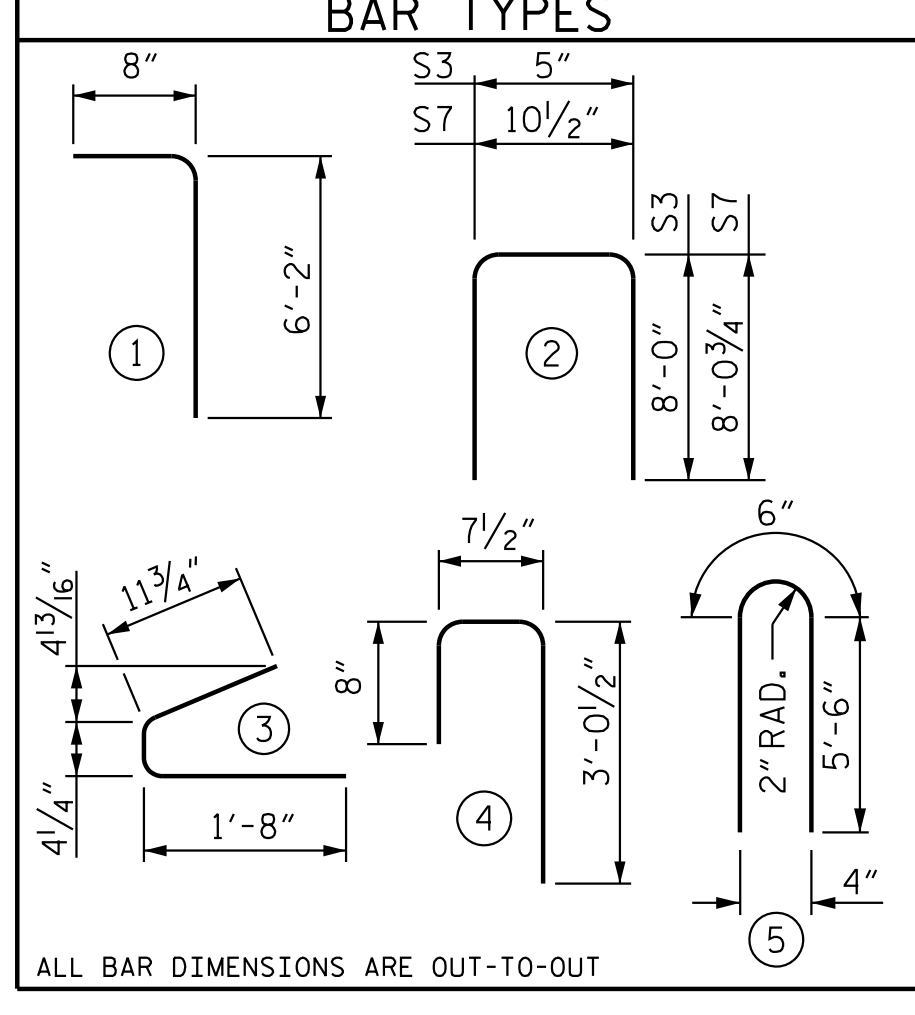


AT END OF GIRDER AT \bar{C} OF GIRDER
0.6" $\bar{\varnothing}$ LOW RELAXATION STRAND LAYOUT

0.6" $\bar{\varnothing}$ 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	258	#4	1	6'-10"	1178	
S2	64	#5	1	6'-10"	457	
S3	14	#4	2	16'-5"	154	
S4	322	#4	4	4'-4"	933	
S5	124	#4	3	3'-0"	249	
* S6	30	#5	STR	3'-8"	115	
S7	2	#5	2	17'-0"	36	
S8	2	#3	STR	1'-10"	2	
S9	41	#5	STR	3'-3"	139	
S10	8	#5	5	11'-6"	96	
S11	16	#4	STR	8'-0"	86	

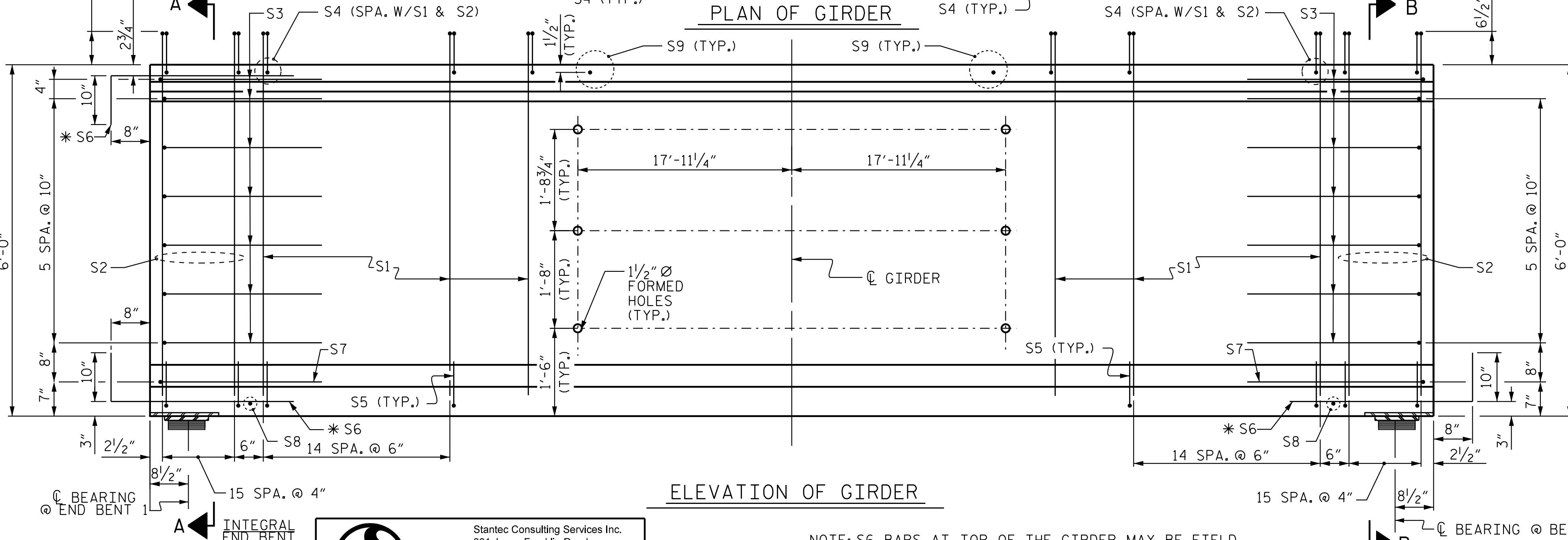
* NOTE: S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS

QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	9,500 PSI CONCRETE	0.6" $\bar{\varnothing}$ L.R. STRANDS	
		LB.	C.Y.
		3445	23.2

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
8	108'-5 1/2"	867'-8"



PROJECT NO. R-2707D
CLEVELAND COUNTY
STATION: 849+00.00 -L-
SHEET 1 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

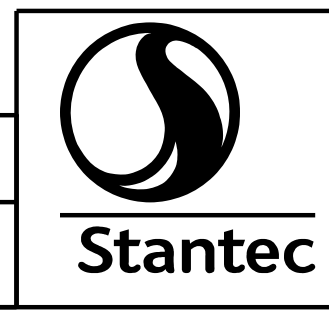
MODIFIED 72" PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD
SPAN A (LEFT LANE)

REVISIONS						SHEET NO. S5-22
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 56
2			4			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

5/9/2023 2:08:57 PM jHogenbush

ASSEMBLED BY: J. B. GEILE
CHECKED BY: S. S. POOLE
DATE: 09/18/18
DATE: 12/10/22



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License No. F-0672

DESIGN ENGINEER OF RECORD: S.S. POOLE DATE: 05/09/23

NOTE: S6 BARS AT TOP OF THE GIRDER MAY BE FIELD BENT AS REQUIRED TO CLEAR APPROACH SLAB PAVEMENT NOTCH.