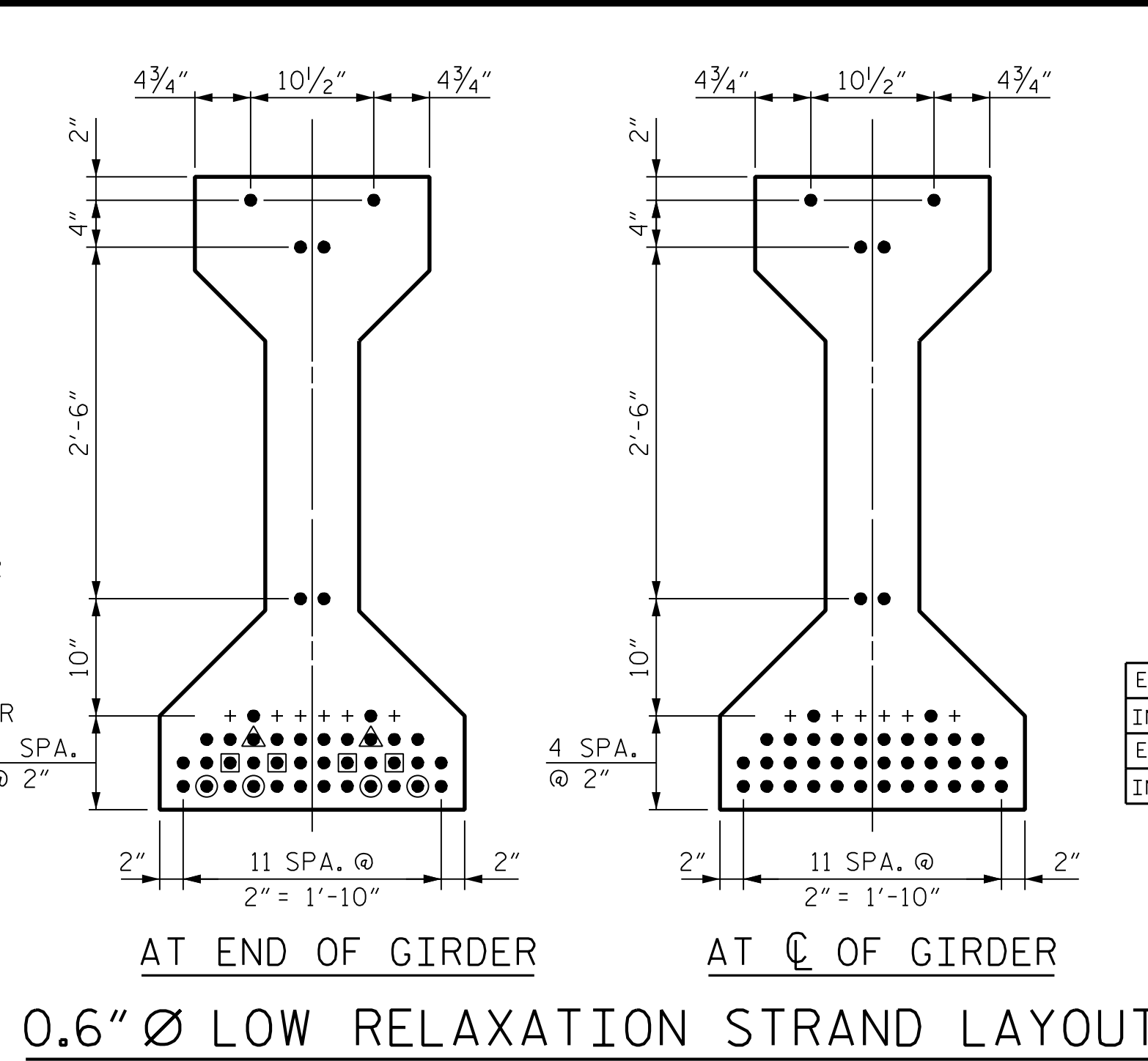


**DEBONDING LEGEND**

- FULLY BONDED STRANDS
- ▲ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
- STRAND DEBONDED FOR 10'-0" FROM END OF GIRDER

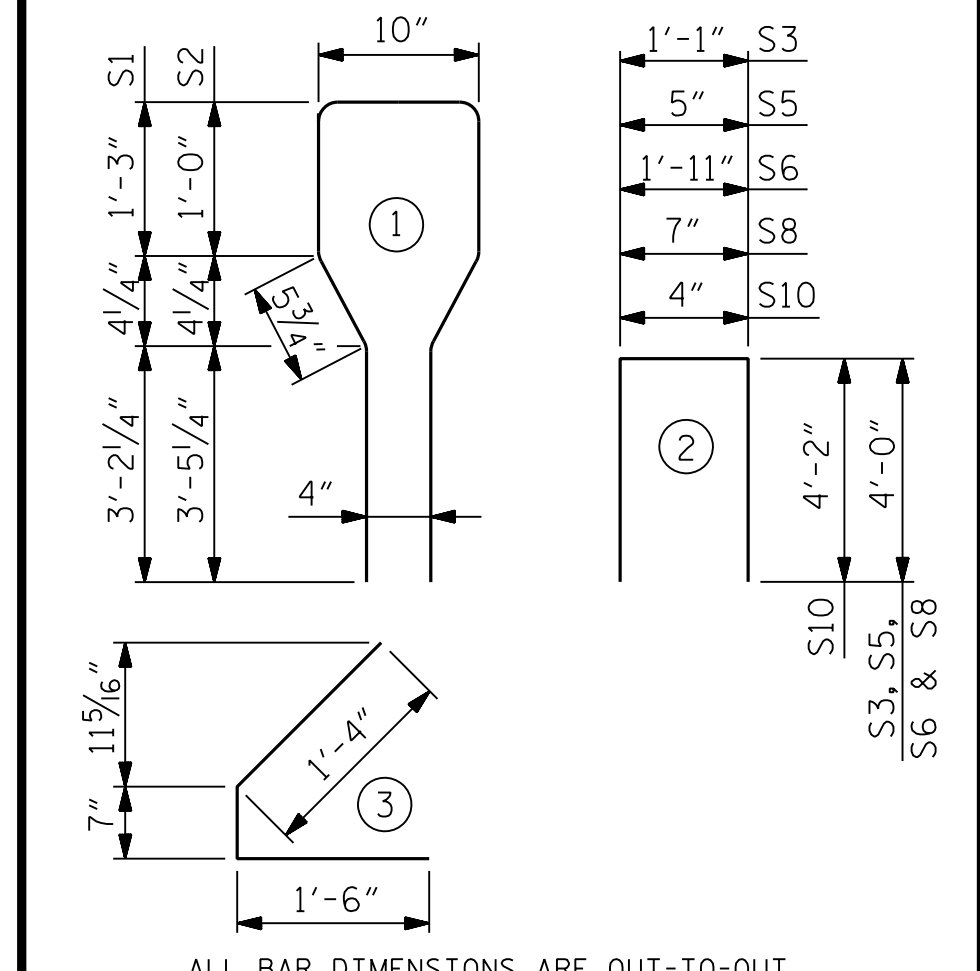


0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	113	#4	1	10'-8"	805
S2	14	#6	1	10'-8"	225
S3	4	#4	2	9'-1"	24
S4	68	#4	3	3'-5"	155
S5	6	#4	2	8'-5"	34
S6	1	#4	2	9'-11"	7
*S7	6	#5	STR.	3'-8"	23
S8	4	#4	2	8'-7"	23
S9	1	#3	STR.	1'-10"	1
S10	4	#5	2	8'-8"	36
S11	10	#4	STR.	7'-0"	47
S12	10	#4	STR.	11'-10"	79

\* 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 LB.	7,500 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
GDRS. 2-4	1,448	21.8	42
GDRS. 1 & 5	1,380	21.8	42

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
5	107'-5"	537'-1"

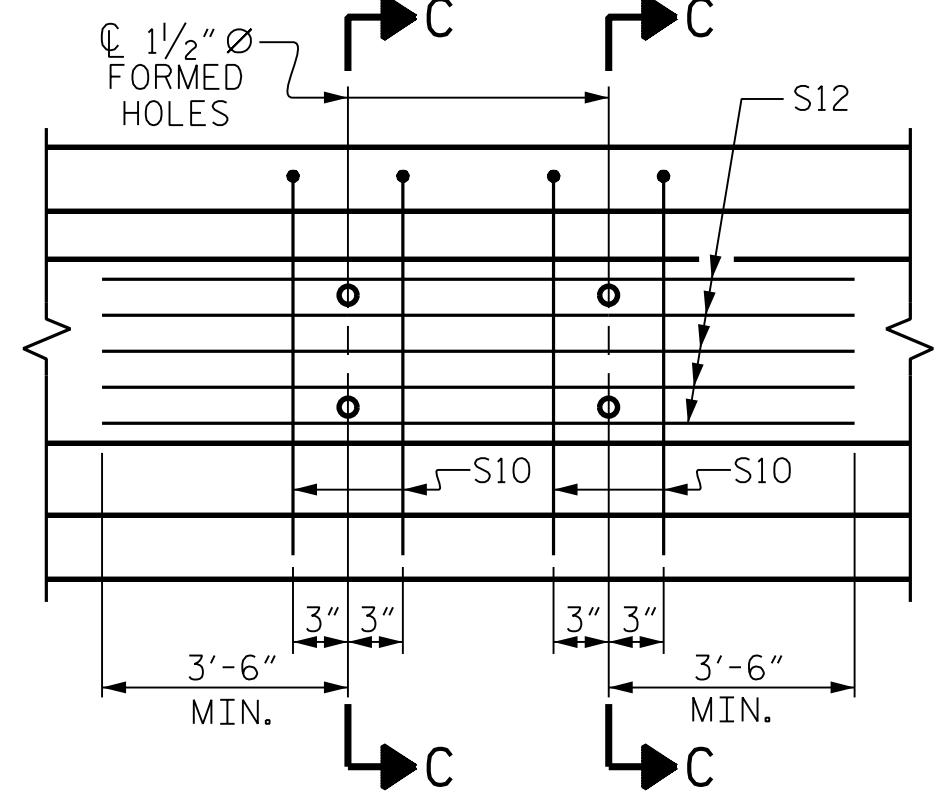
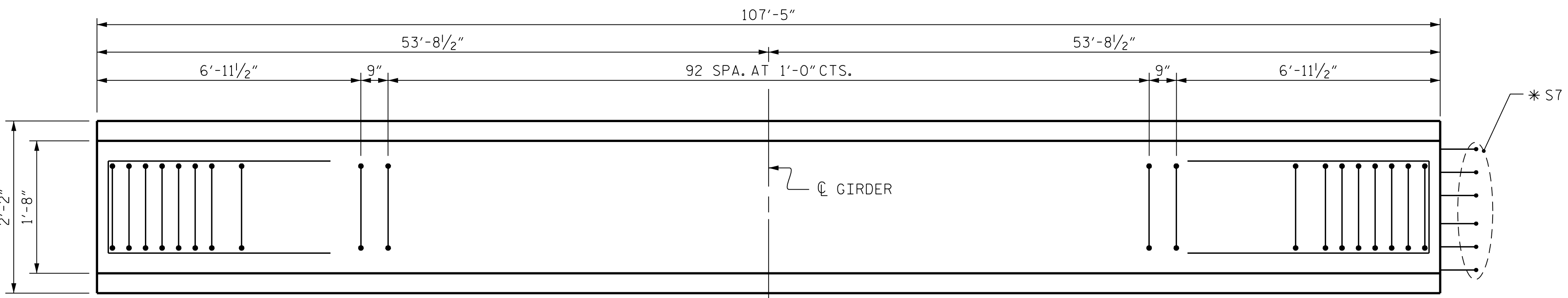
PROJECT NO. R-2577A  
 FORSYTH COUNTY  
 STATION: 140+39.50 -L-

SHEET 1 OF 4

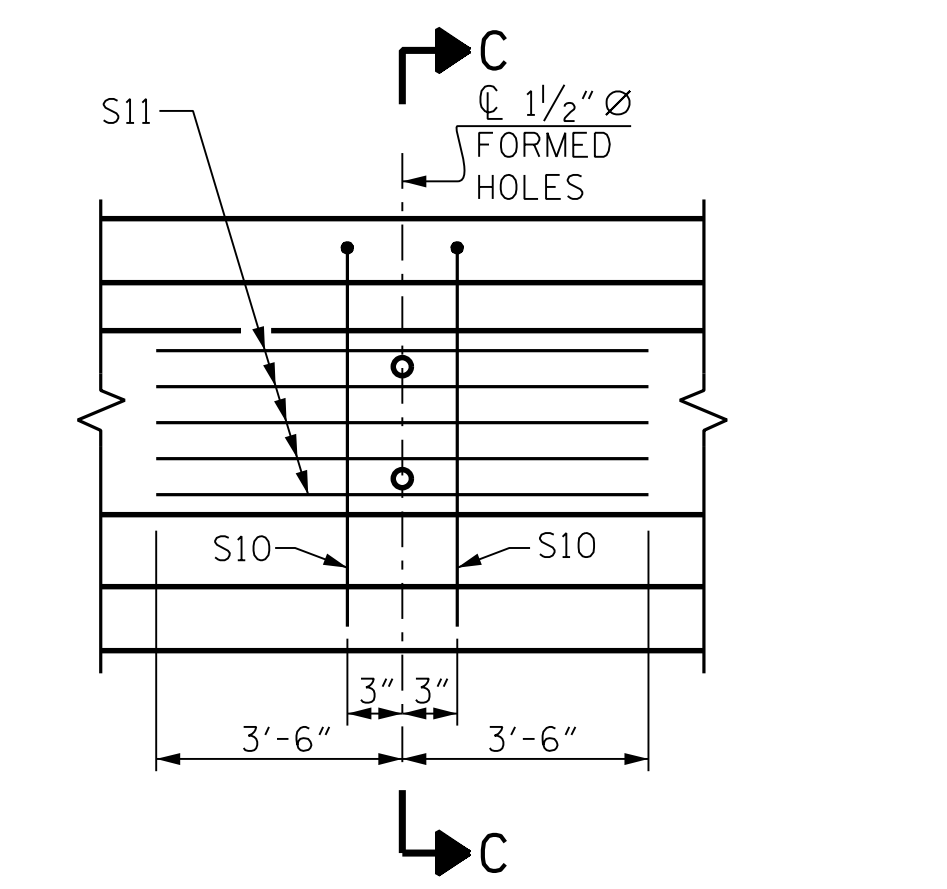
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD SPAN A  
 RIGHT LANE

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

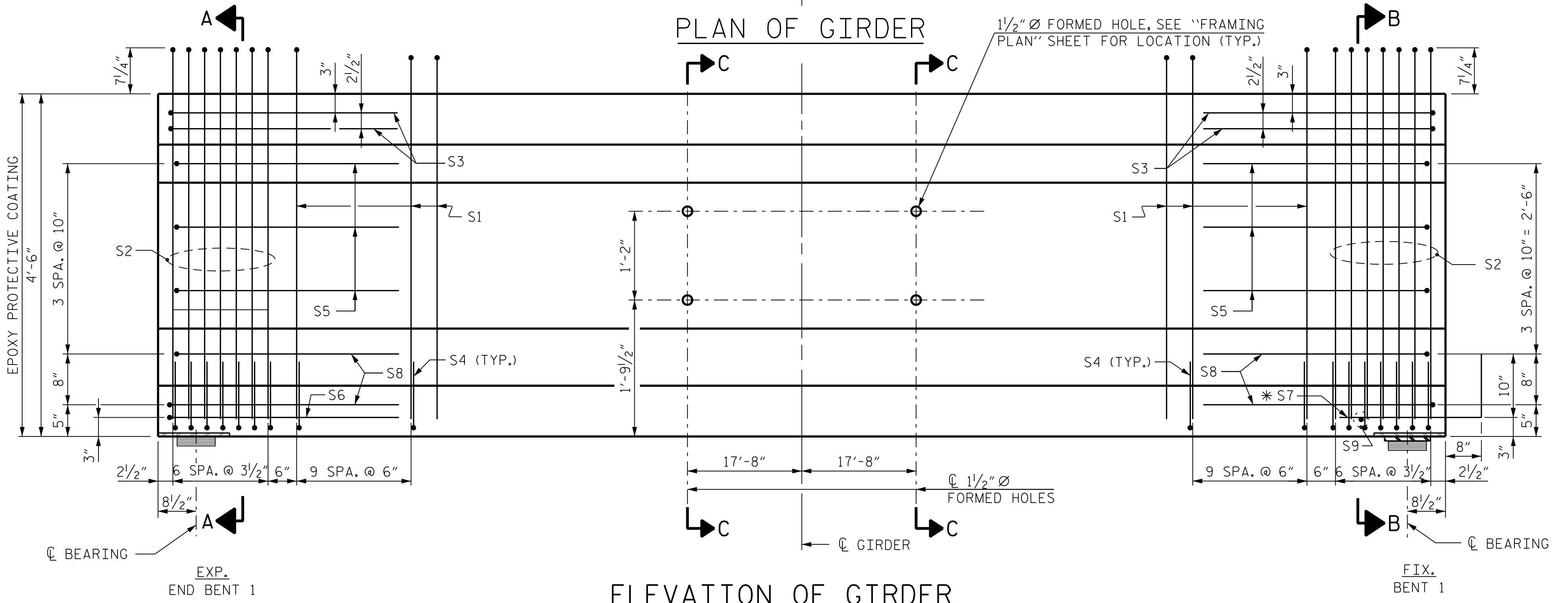
TOTAL SHEETS: 34



**PARTIAL ELEVATION**  
 SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GDRS. 2 THRU 4



**PARTIAL ELEVATION**  
 SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GDRS. 1 & 5



**ELEVATION OF GIRDER**  
 (SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

\* FOR S7 BARS, SEE DETAIL "A" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET

11/10/2023 R:\Structures\BRIDGE\RightBridge\GN\FINAL\R2577A\_SMU\_G1\_330815.dgn

DRAWN BY: T.K. BOYD DATE: SEP 2023  
 CHECKED BY: L.K. AUSTIN DATE: SEP 2023  
 DESIGN ENGINEER OF RECORD: O.J. PAITEL DATE: SEP 2023

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 www.rkk.com

BRIDGE NO. 330814  
 SEAL  
 O.J. PAITEL  
 ENGINEER  
 11/10/2023

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