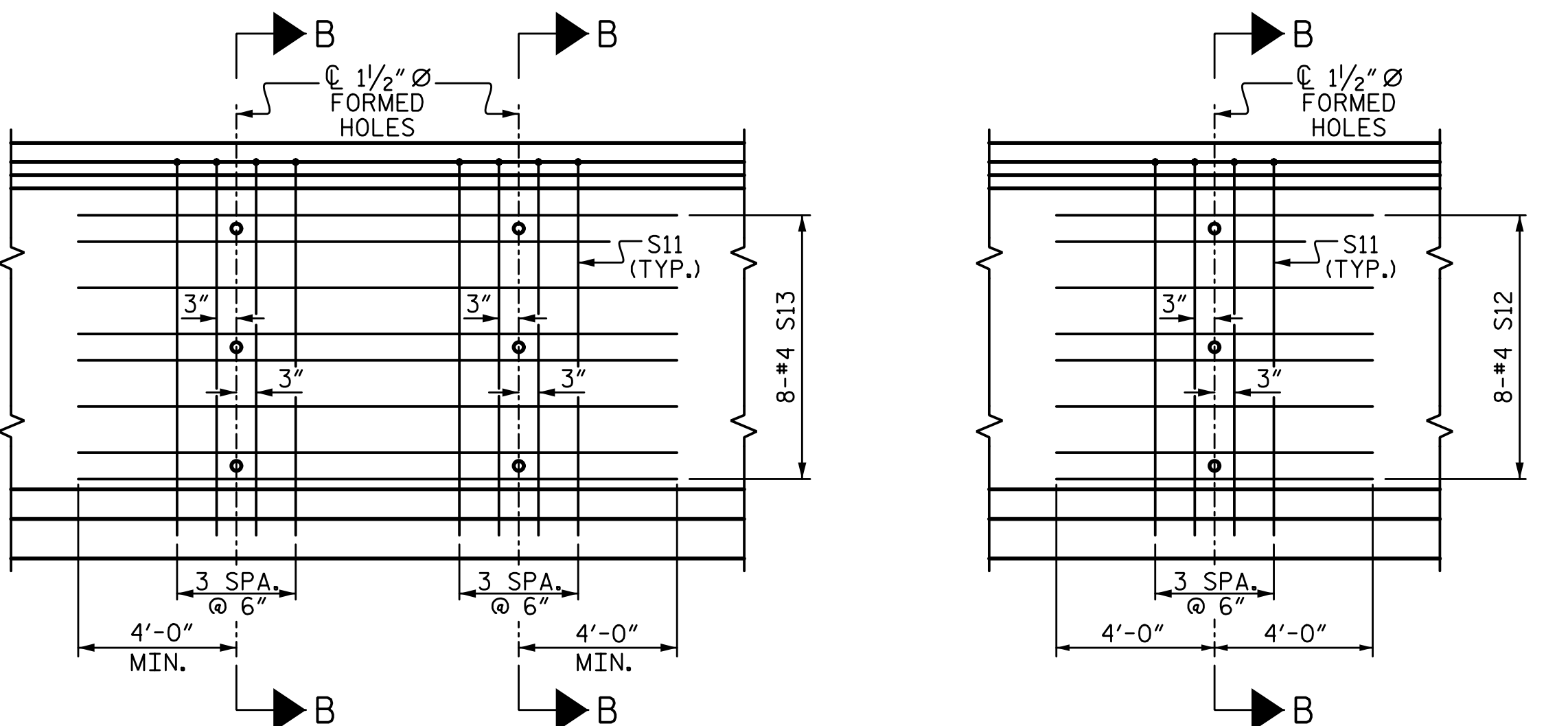


3/21/2022 9:08:45 AM G:\Projects\2020\Division 6 (Mott Mac - NV5)\I-5987B\Structures\Site 7 (Y1B over L)\Drawings\Final\I5987B_SMU_G.dgn

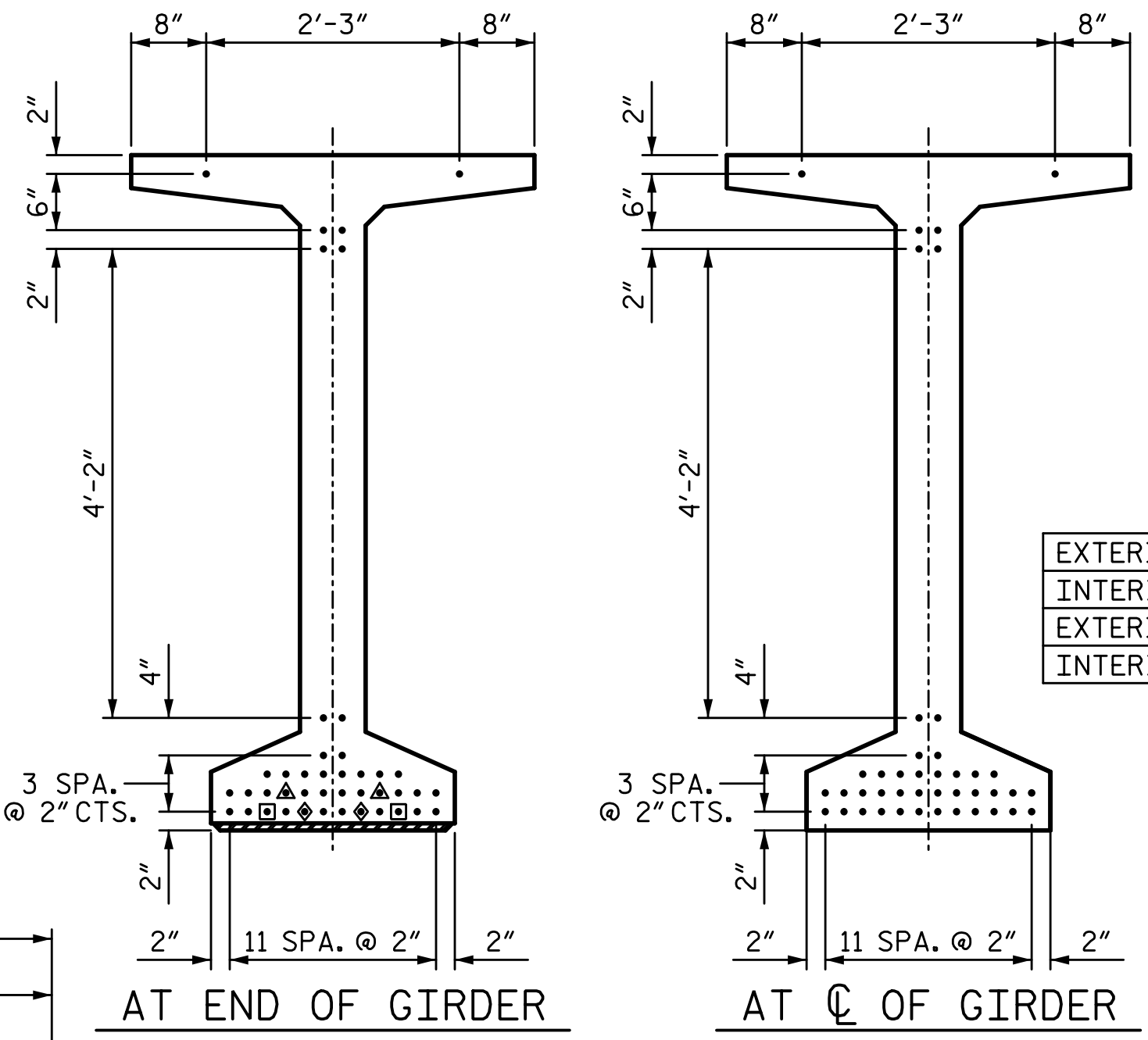


PARTIAL ELEVATION
SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR INTERIOR GIRDERS 2, 3 & 4.

PARTIAL ELEVATION
SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR EXTERIOR GIRDERS 1 & 5.

DEBONDING LEGEND

- FULLY BONDED STRAND
- ◻ STRAND DEBONDED FOR 4'-0" FROM END OF GIRDER
- ▲ STRAND DEBONDED FOR 12'-0" FROM END OF GIRDER
- ◆ STRAND DEBONDED FOR 20'-0" FROM END OF GIRDER

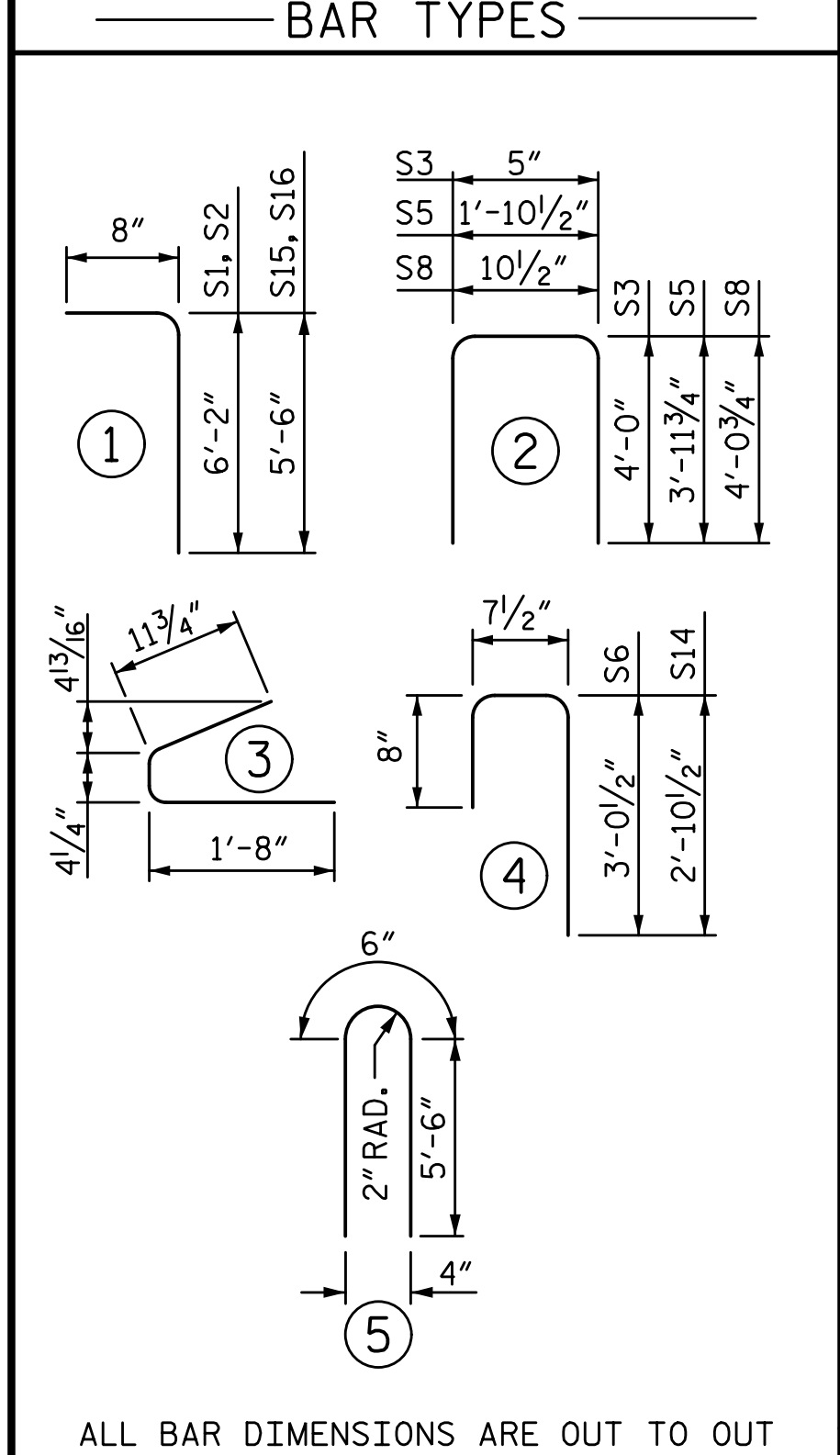


0.6" Ø LOW RELAXATION STRAND LAYOUT

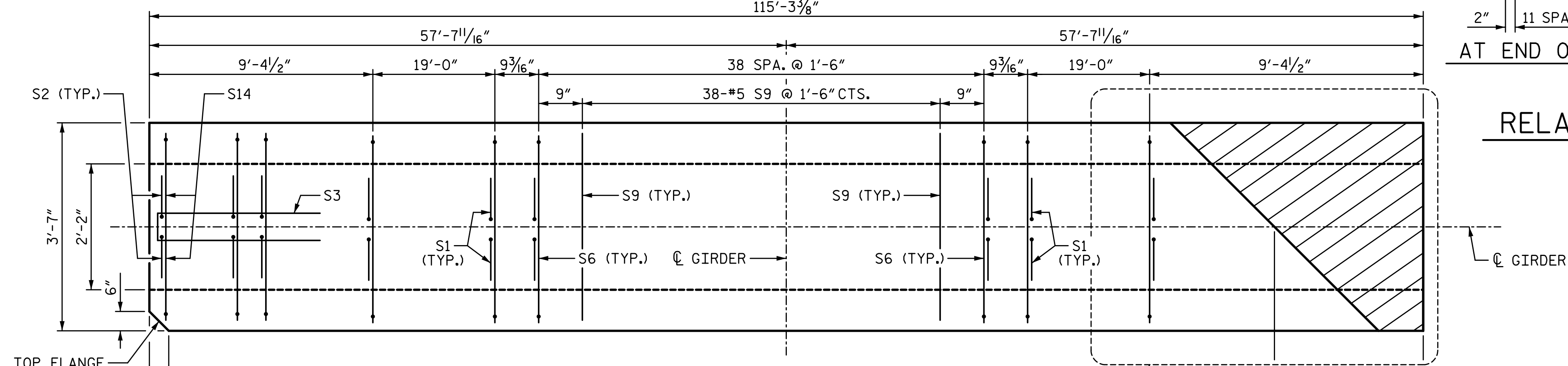
- NOTES:**
- FOR SECTION A-A, SEE SHEET 2 OF 2.
 - FOR SECTION B-B, SEE SHEET 2 OF 2.

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

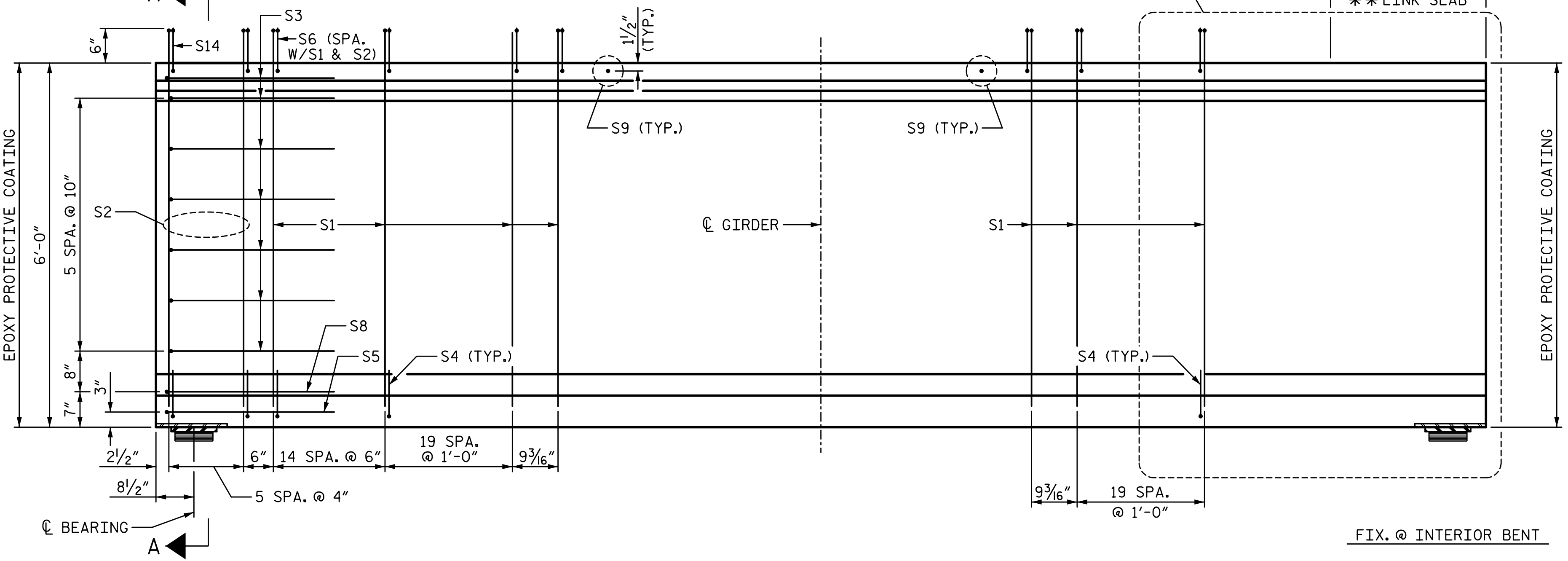
REINFORCING STEEL FOR ONE GDR					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
S1	196	#4	1	6'-10"	895
S2	12	#5	1	6'-10"	86
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S5	2	#5	2	9'-10"	21
S6	209	#5	4	4'-4"	945
S8	2	#5	2	9'-0"	19
S9	54	#5	STR	3'-3"	183
S11	8	#5	5	11'-6"	96
S11	16	#5	5	11'-6"	192
S12	16	#4	STR	8'-0"	86
S13	16	#4	STR	18'-0"	192
S14	2	#5	4	4'-2"	9
S15	18	#4	1	6'-2"	74
S16	12	#5	1	6'-2"	77



QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	7500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB	CY	No.
EXTERIOR GIRDER	2738	24.7	42
INTERIOR GIRDER	2940	24.7	42
GIRDERS REQUIRED			
NUMBER	LENGTH	TOTAL LENGTH	
10	115'-3 3/8"	1152.81'	



PLAN OF GIRDER



ELEVATION OF GIRDER

** DO NOT ROUGHEN TOP OF GIRDER IN THIS AREA. (SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

DRAWN BY: T. BANKOVICH DATE: 3-22
 CHECKED BY: D.A. SEALEY DATE: 3-22
 DESIGN ENGINEER OF RECORD: D.A. SEALEY DATE: 3-22



PROJECT NO. I-5987B
ROBESON COUNTY
 STATION: 29+51.04 -Y1B-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 72" PRESTRESSED
 CONCRETE MODIFIED
 BULB TEE
 SPANS A & B

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

TOTAL SHEETS: 37

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED