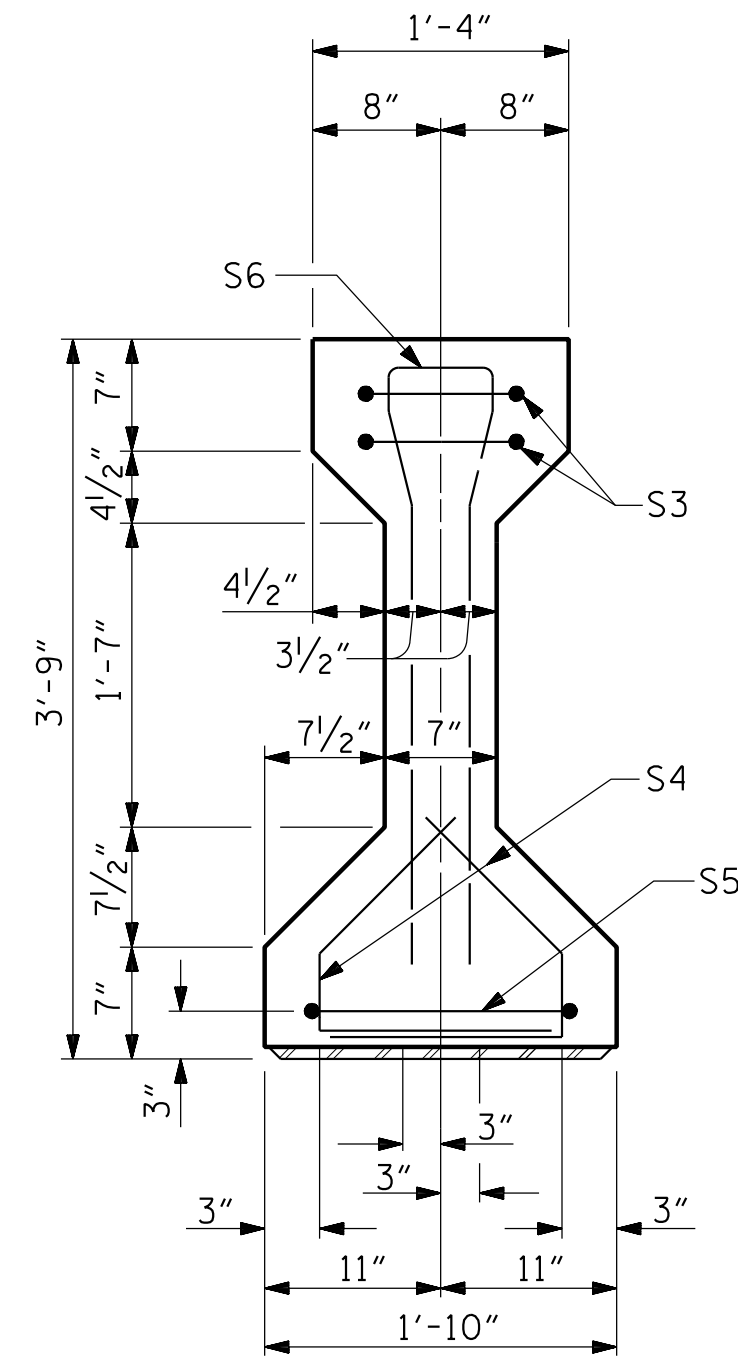
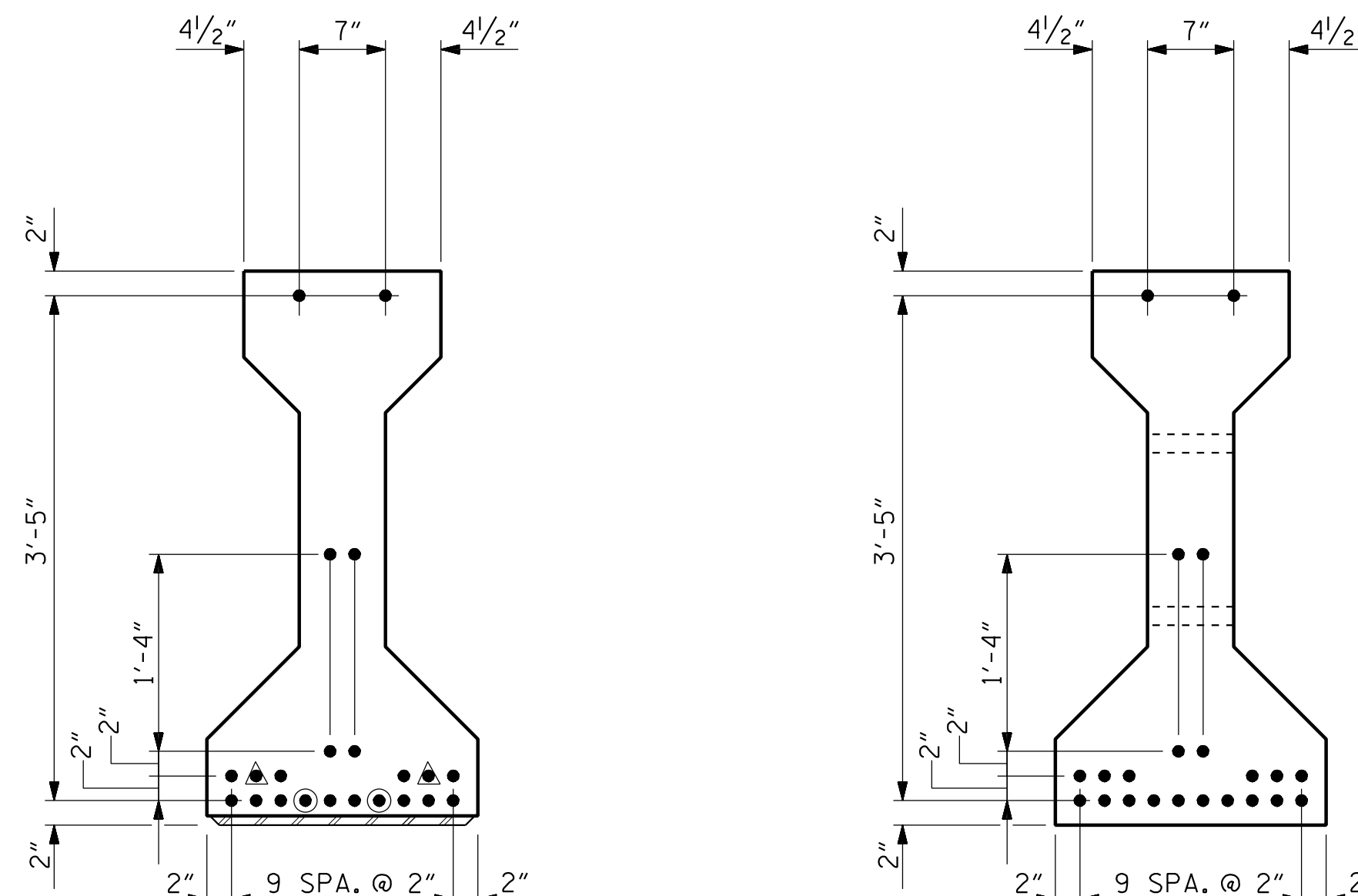


SECTION A-A



SECTION B-B



AT END OF GIRDER

AT C OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

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

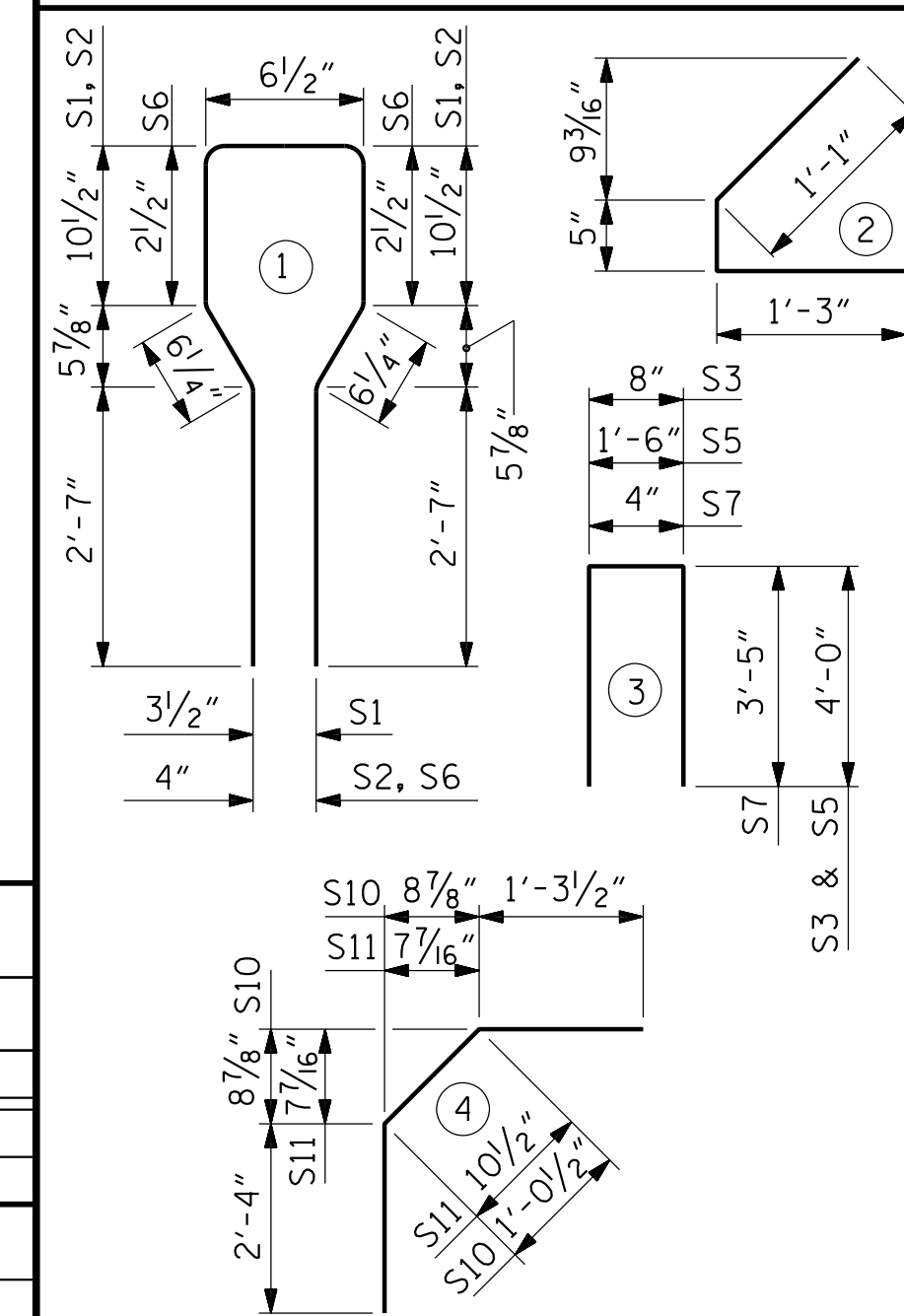
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
S1	38	#4	1	8'-6"	216	
S2	3	#6	1	8'-6"	38	
S3	3	#4	3	8'-8"	17	
S4	60	#4	2	2'-9"	110	
S5	2	#4	3	9'-6"	13	
S6	13	#6	1	7'-2"	140	
CG1, CG5	S7	2	#5	3	7'-2"	15
CG6, CG9	S8	5	#4	STR	7'-0"	23
CG2-CG4	S7	4	#5	3	7'-2"	30
CG7-CG8	S9	5	#4	STR	14'-0"	47
	S10	2	#6	4	4'-8"	14
	S11	2	#6	4	4'-6"	14
	S12	2	#6	STR	4'-0"	12

CG1, CG5
CG6, CG9
CG2-CG4
CG7-CG8

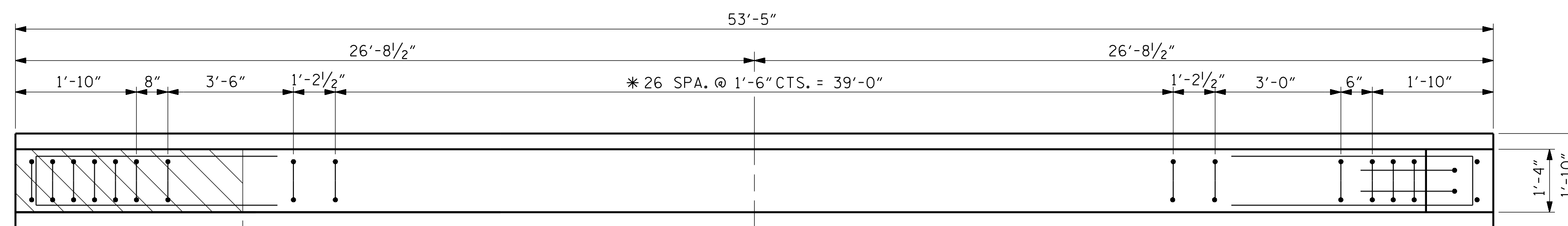
BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



- FULLY BONDED STRAND
- ▲ BOND SHALL BE BROKEN ON THESE STRANDS FOR A DISTANCE OF 4'-0" FROM END OF GIRDER.
- ◎ BOND SHALL BE BROKEN ON THESE STRANDS FOR A DISTANCE OF 6'-0" FROM END OF GIRDER.

DEBONDING LEGEND

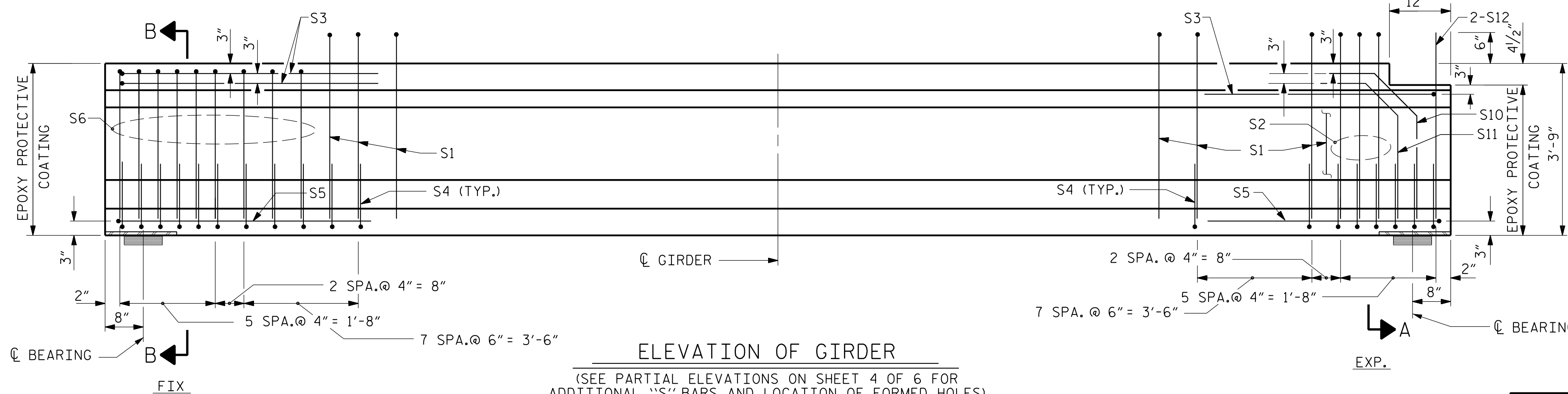


PLAN OF GIRDER

LINK SLAB REGION
DO NOT RAKE THE
TOP OF THE GIRDER
IN THIS AREA

	QUANTITIES FOR ONE GIRDER		
	REINFORCING STEEL LB.	6500 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
CG1, CG5, CG6, CG9	612	7.7	22
CG2-CG4, CG7-CG8	651	7.7	22

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
9	53'-5"	480'-9"



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATIONS ON SHEET 4 OF 6 FOR ADDITIONAL "S" BARS AND LOCATION OF FORMED HOLES)

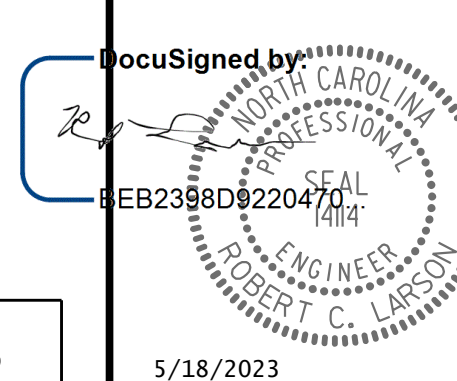
* S1 BARS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO MISS 1/2" Ø FORMED HOLES.

PROJECT NO. U-5839
HAYWOOD COUNTY
 STATION: 24+64.13 -L- POC

SHEET 3 OF 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 AASHTO TYPE III
 PRESTRESSED CONCRETE GIRDER
 FOR LINK SLAB
 (SPAN C)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-24
1			3			TOTAL SHEETS
2			4			61



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

5/18/2023

5/17/2023 7:00 PM R:\Structures\3 span Bridge over RRV24 US5839_SMU_G3_43084.dgn

DRAWN BY: W. B. ALLEN DATE: 9/19
 CHECKED BY: Z. H. BROWN DATE: 1/20
 DESIGN ENGINEER OF RECORD: R. C. LARSON DATE: 4/23

DocuSigned by:
 BEB2388D220470