

0.6" Ø LOW RELAXATION STRAND LAYOUT

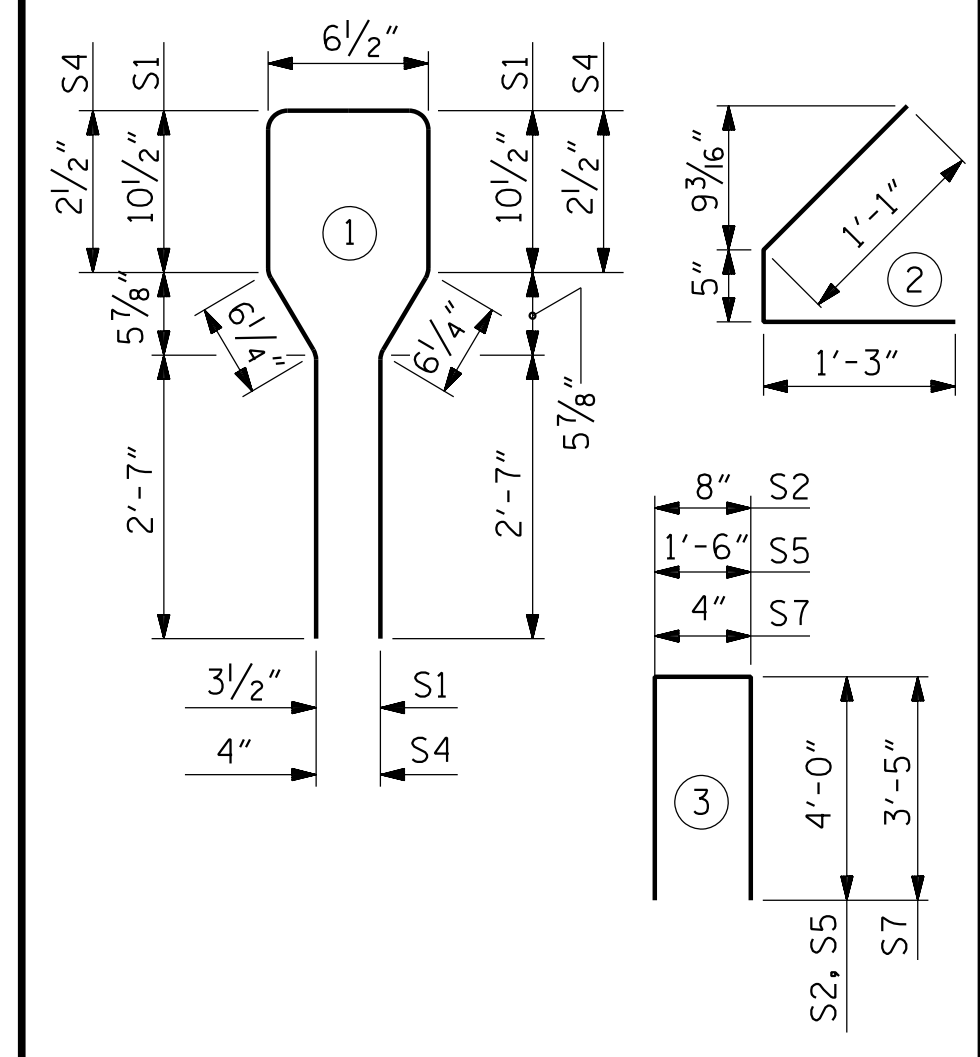
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	63	#4	1	8'-6"	358
S2	4	#4	3	8'-8"	23
S3	92	#4	2	2'-9"	169
S4	20	#6	1	7'-2"	215
S5	2	#4	3	9'-6"	13
S7	2	#5	3	7'-2"	15
S8	5	#4	STR	7'-0"	23
S7	4	#5	3	7'-2"	30
S9	5	#4	STR	14'-0"	47

BG1, BG5
BG6, BG9
BG2-BG4
BG7-BG8

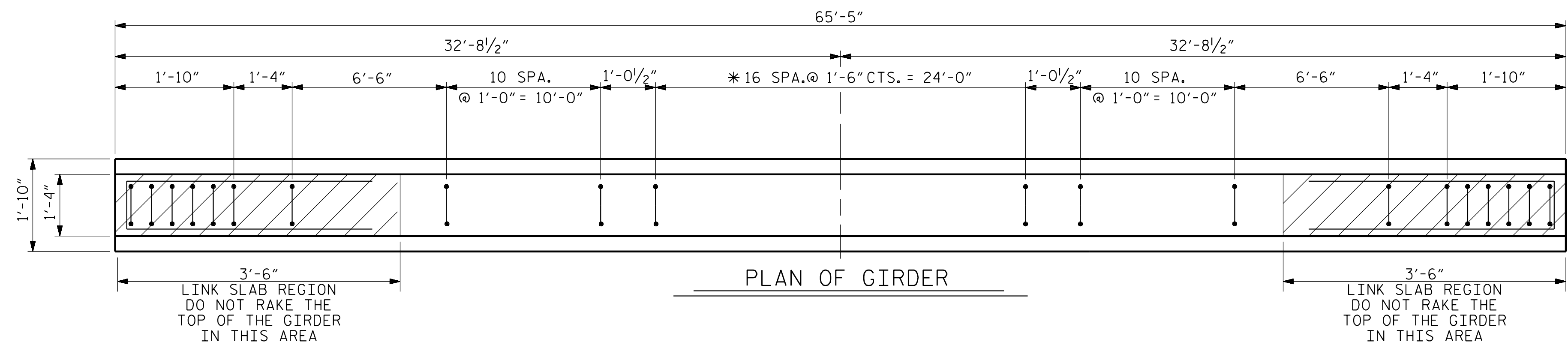
BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT

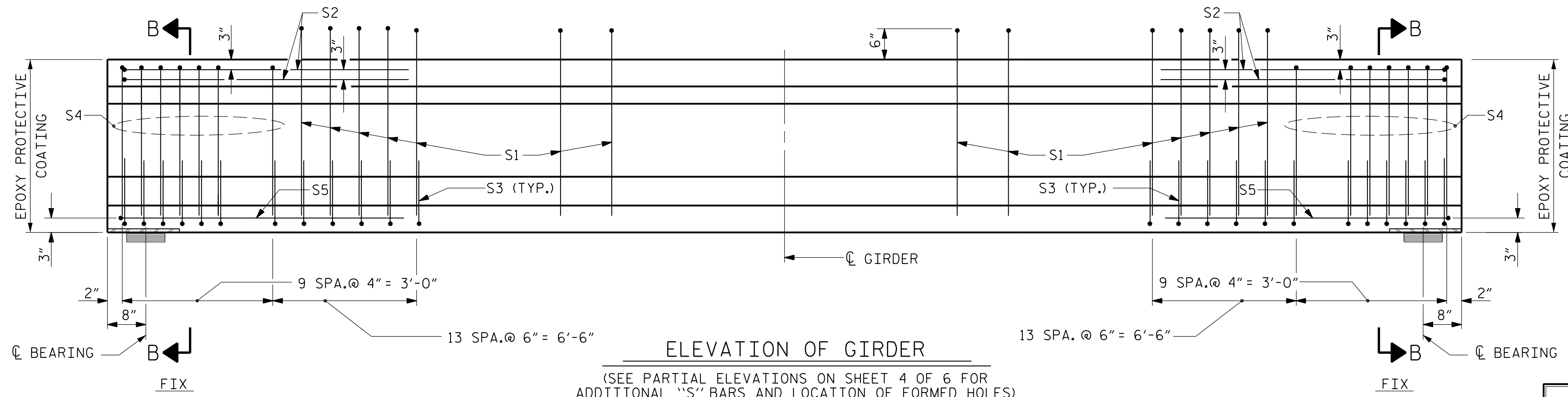


- FULLY BONDED STRAND
- ▲ BOND SHALL BE BROKEN ON THESE STRANDS FOR A DISTANCE OF 4'-0" FROM END OF GIRDER.
- ◎ BOND SHALL BE BROKEN ON THESE STRANDS FOR A DISTANCE OF 6'-0" FROM END OF GIRDER.

DEBONDING LEGEND



PLAN OF GIRDER



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.

QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL LB.	6500 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
BG1, BG5, BG6, BG9	816	9.4	22
BG2-BG4, BG7-BG8	855	9.4	22

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
9	65'-5"	588'-9"

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

SHEET 2 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
AASHTO TYPE III
PRESTRESSED CONCRETE GIRDER
FOR LINK SLAB
(SPAN B)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-23
1			3			TOTAL SHEETS
2			4			63

PLANS PREPARED BY:

N|V|5

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DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DocuSigned by:

ROBERT C. LARSON
14114

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5/18/2023

DRAWN BY: W. B. ALLEN DATE: 7/19
CHECKED BY: Z. H. BROWN DATE: 1/20
DESIGN ENGINEER OF RECORD: R. C. LARSON DATE: 4/23

DocuSigned by:

ROBERT C. LARSON
14114

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5/17/2023 7:00 PM R:\Structures\3 span Bridge cover RRV23 US839_SMU_G2_43084.dgn