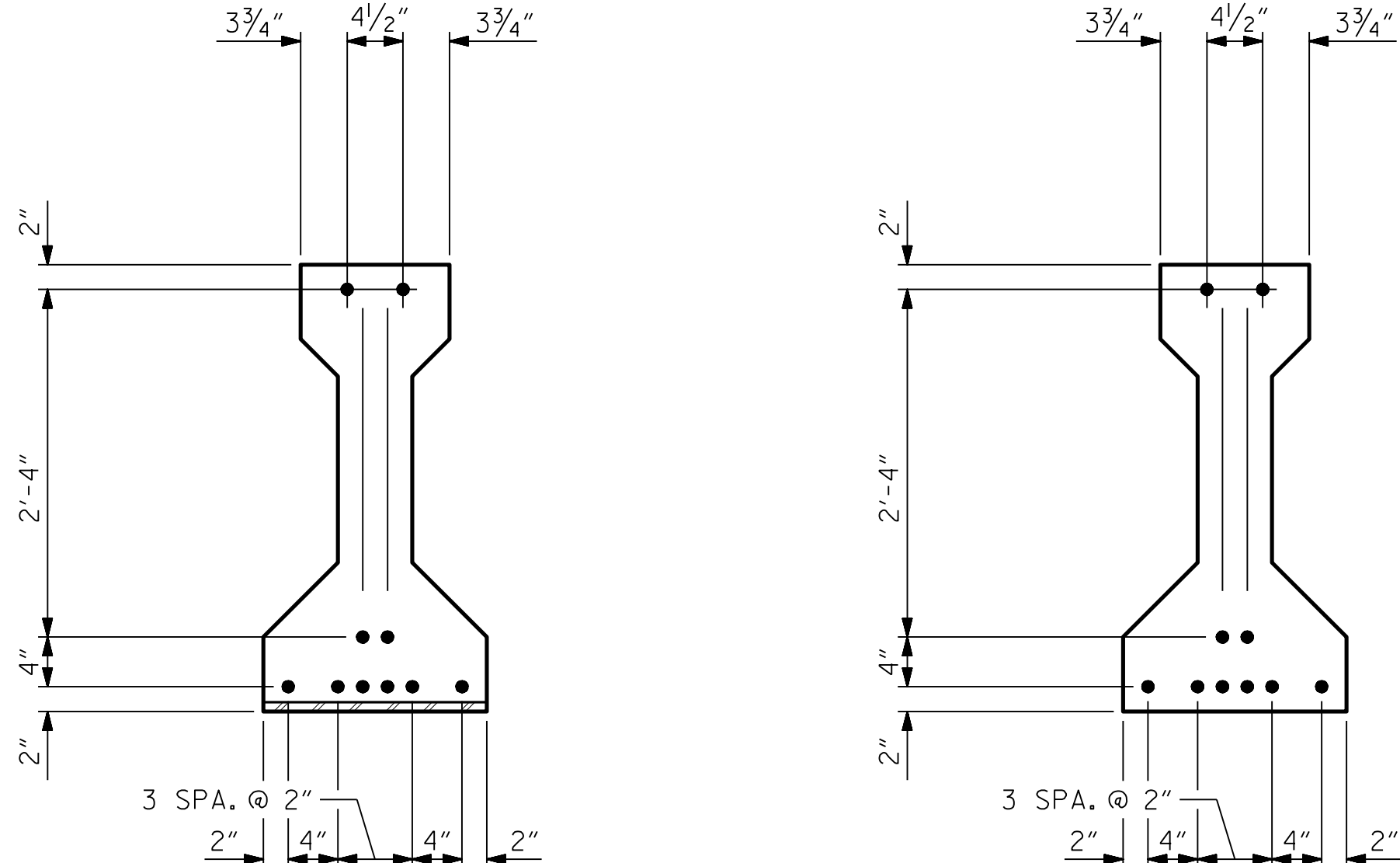


SECTION A-A

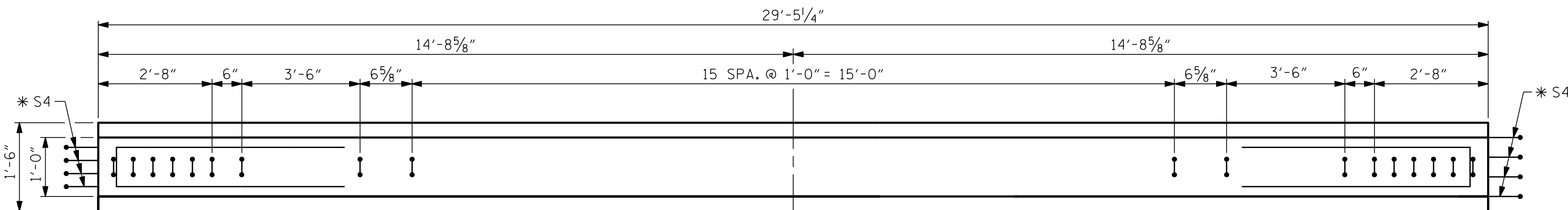
SECTION B-B



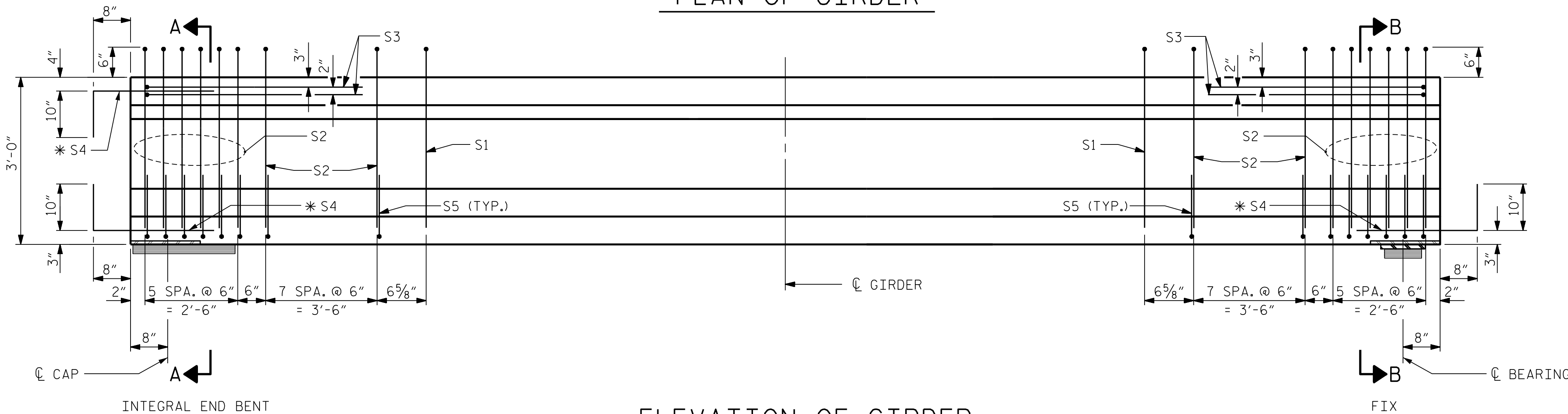
AT END OF GIRDER

AT CL OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION 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

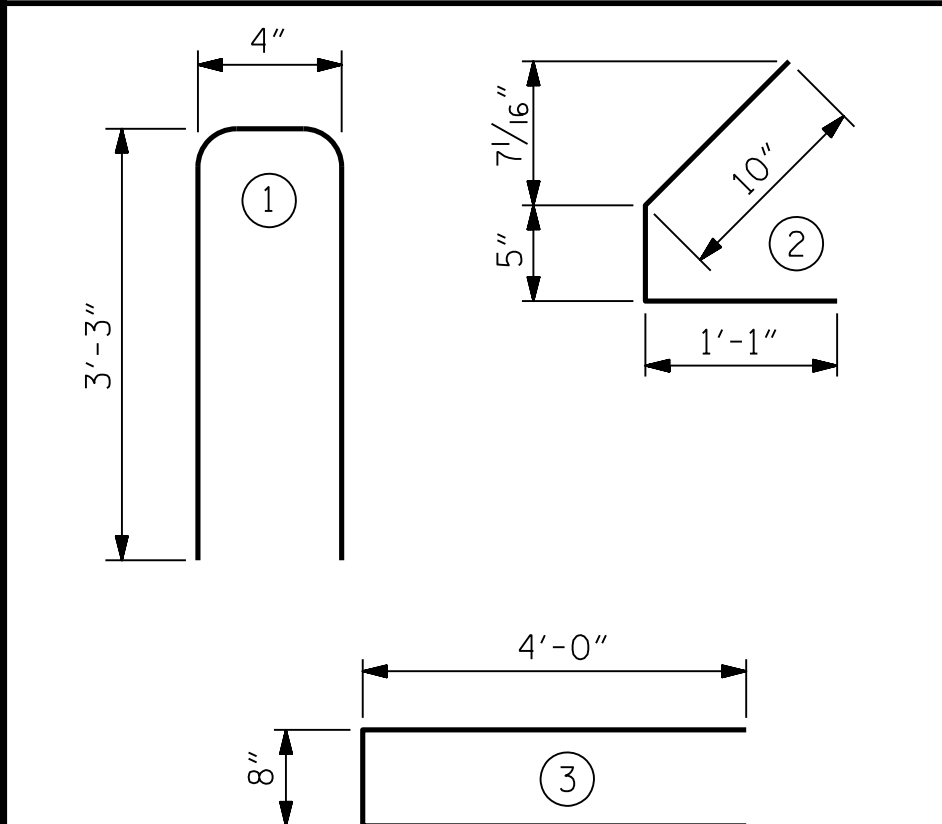
REINFORCING STEEL
FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	16	#4	1	6'-10"	73
S2	28	#5	1	6'-10"	200
S3	4	#4	3	8'-8"	23
* S4	12	#5	STR	3'-8"	46
S5	56	#4	2	2'-4"	87

* NOTE: S4 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED. SEE DETAIL "A" ON "PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS" SHEET FOR LOCATION.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT.



QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	5,000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
ALL	429	2.8	10

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	29'-5 1/4"	117'-9"

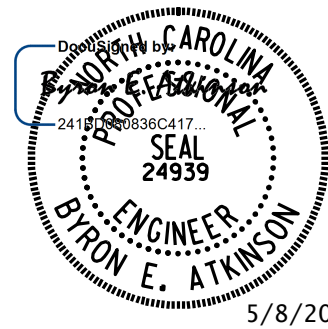
PROJECT NO. BP14.R041
POLK COUNTY
STATION: 20+97.50 -L-

SHEET 1 OF 3

REVISIONS						SHEET NO. S-11
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 29
2			4			

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671



DRAWN BY : J.I. BREWER DATE : 03/25
CHECKED BY : B.E. ATKINSON DATE : 03/25
DESIGN ENGINEER OF RECORD : B.E. ATKINSON DATE : 04/25

5/7/2025 7:22:54 PM User: blanning Filename: N:\NC Bridges\W3001.02_Polk 29\BP14-R041\Structures\401_021_BP14-R041_SMU.G1_740029.dgn