

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

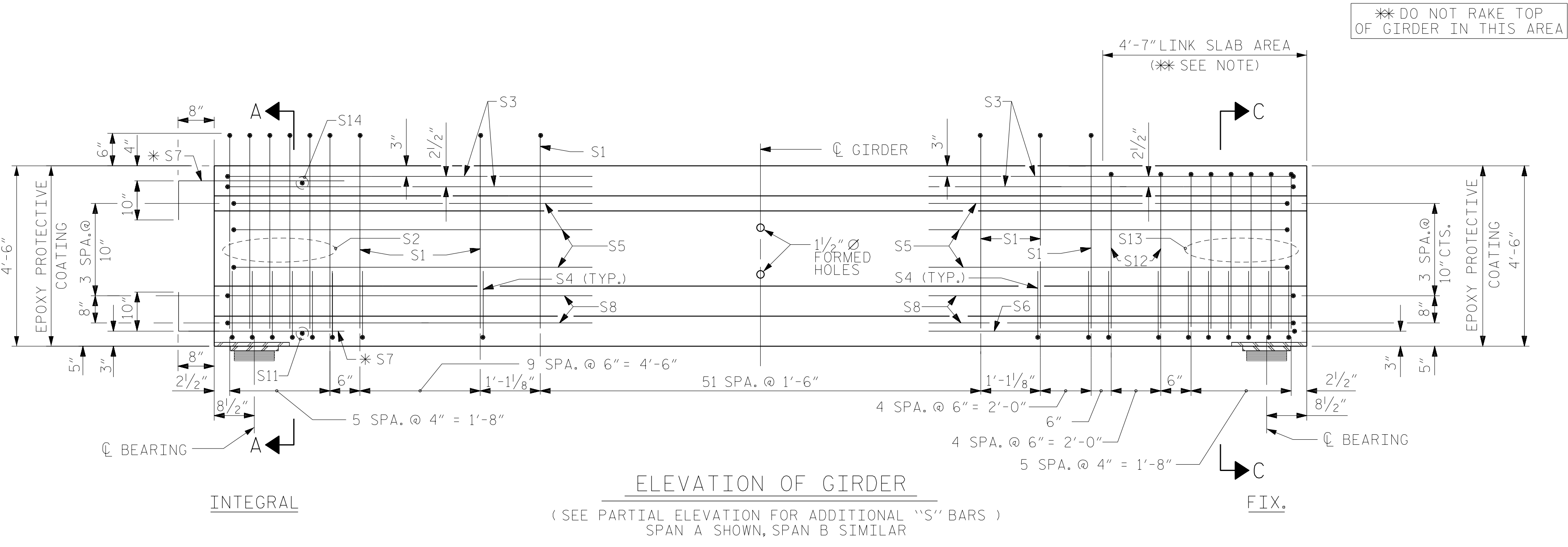
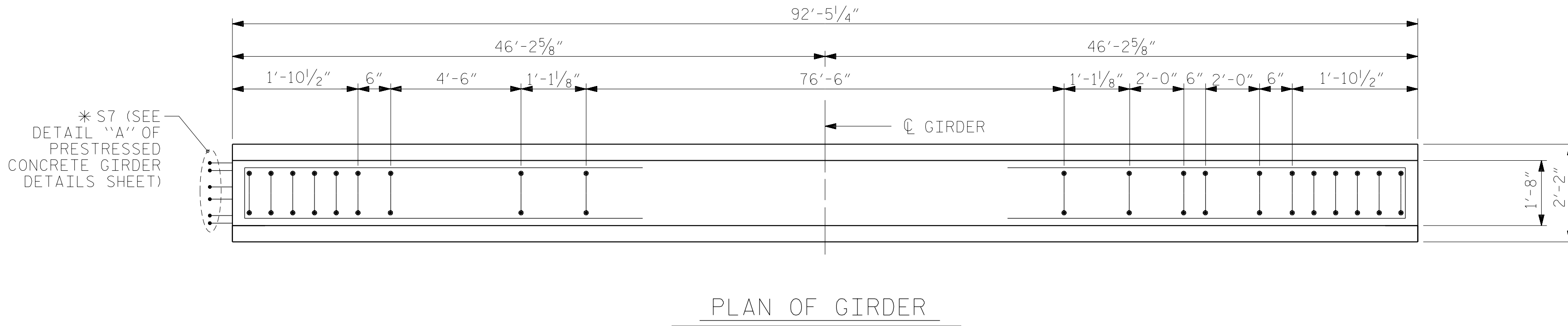
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	67	#4	1	10'-8"	477
S2	6	#6	1	10'-8"	96
S3	4	#4	2	9'-1"	24
S4	64	#4	3	3'-5"	146
S5	6	#4	2	8'-5"	34
S6	1	#4	2	9'-11"	7
*S7	12	#5	STR	3'-8"	46
S8	4	#4	2	8'-7"	23
S9	2	#5	2	8'-8"	18
S10	5	#4	STR	7'-0"	23
S11	1	#3	STR	1'-10"	1
S12	5	#4	1	9'-4"	31
S13	6	#6	1	9'-4"	84
S14	1	#3	STR	1'-4"	1

* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

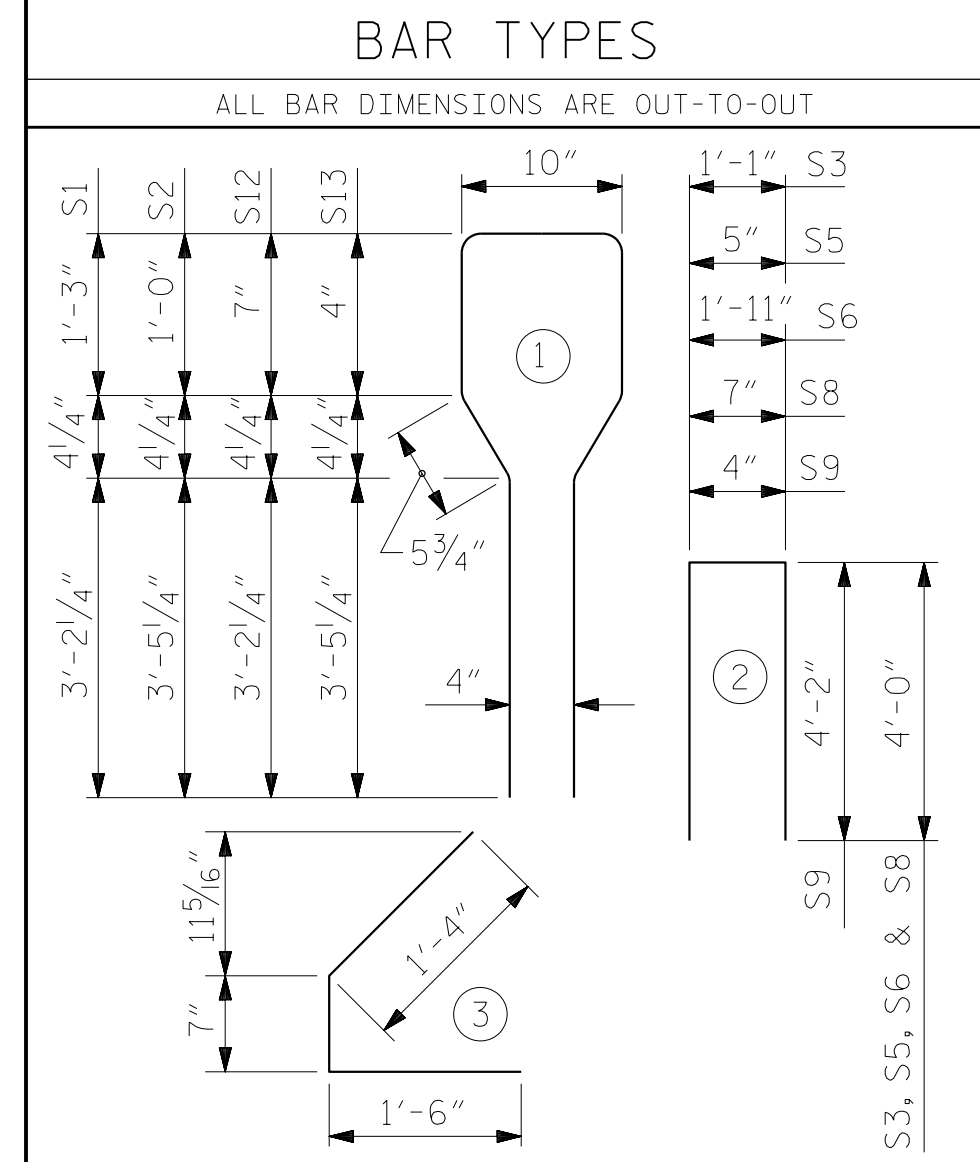
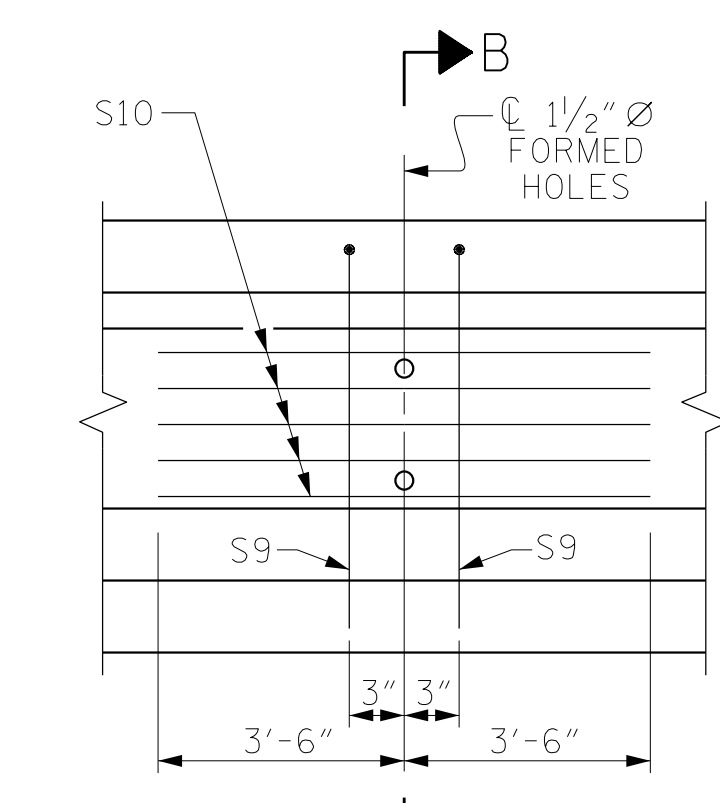
* FOR S7 BARS, SEE DETAIL "A" OF PRESTRESSED CONCRETE GIRDERS SHEET.

(S1 BARS NOT SHOWN)



DEBONDING LEGEND

- FULLY BONDED STRANDS
- ◐ DEBONDED FOR 3'-0" FROM END OF GIRDER
- ◑ DEBONDED FOR 6'-0" FROM END OF GIRDER



QUANTITIES FOR ONE GIRDER

SPAN A & B	REINFORCING STEEL	8,000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
SPAN A & B	1,011	18.8	38

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
10	92'-5 1/4"	924'-4 1/2"

PROJECT NO. R-5751
ROBESON COUNTY
STATION: 37+99.89 -Y1B-

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER

REVISIONS

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

SHEET NO. S-11
TOTAL SHEETS 28

ASSEMBLED BY : TWL DATE : 10/2021
CHECKED BY : MRA DATE : 10/2021

DRAWN BY : JMB 12/87 MAA/GM
CHECKED BY : ARB 12/87 MAA/TMG
REV. 10/1/11 MAA/GM
REV. 1/1/15 MAA/TMG
REV. 12/17 MAA/THC

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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