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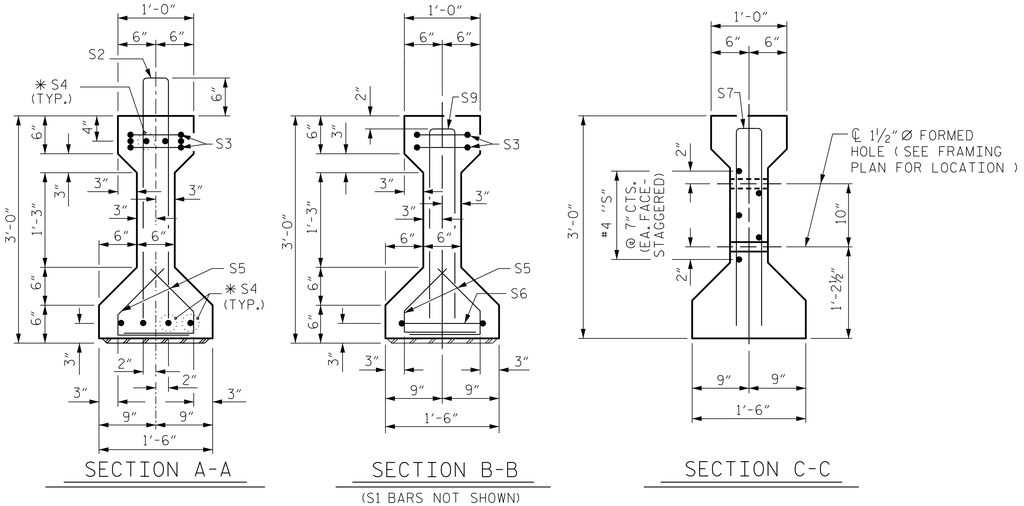
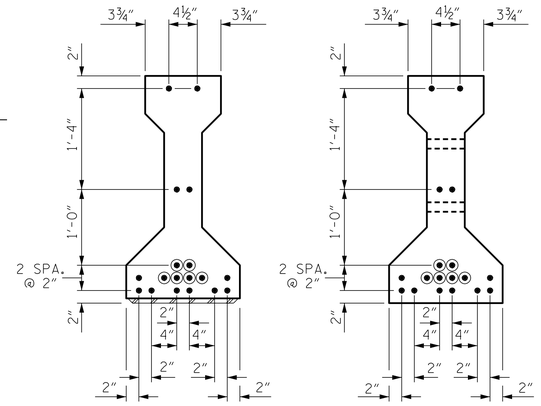


SECTION A-A | SECTION B-B (S1 BARS NOT SHOWN) | SECTION C-C

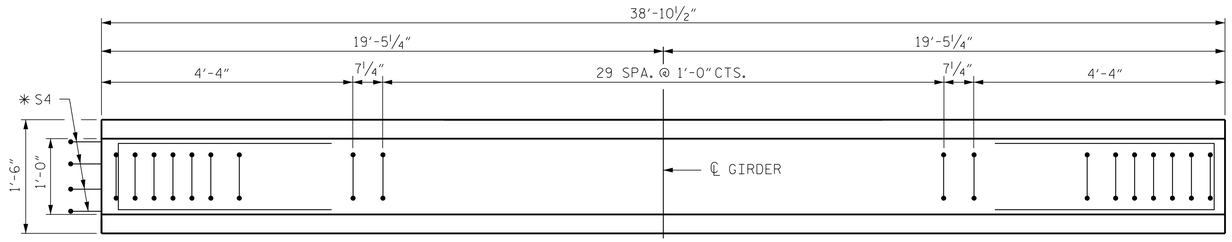
DEBONDING LEGEND

- • FULLY BONDED STRANDS
- ⊙ OPTIONAL FULLY DEBONDED STRANDS

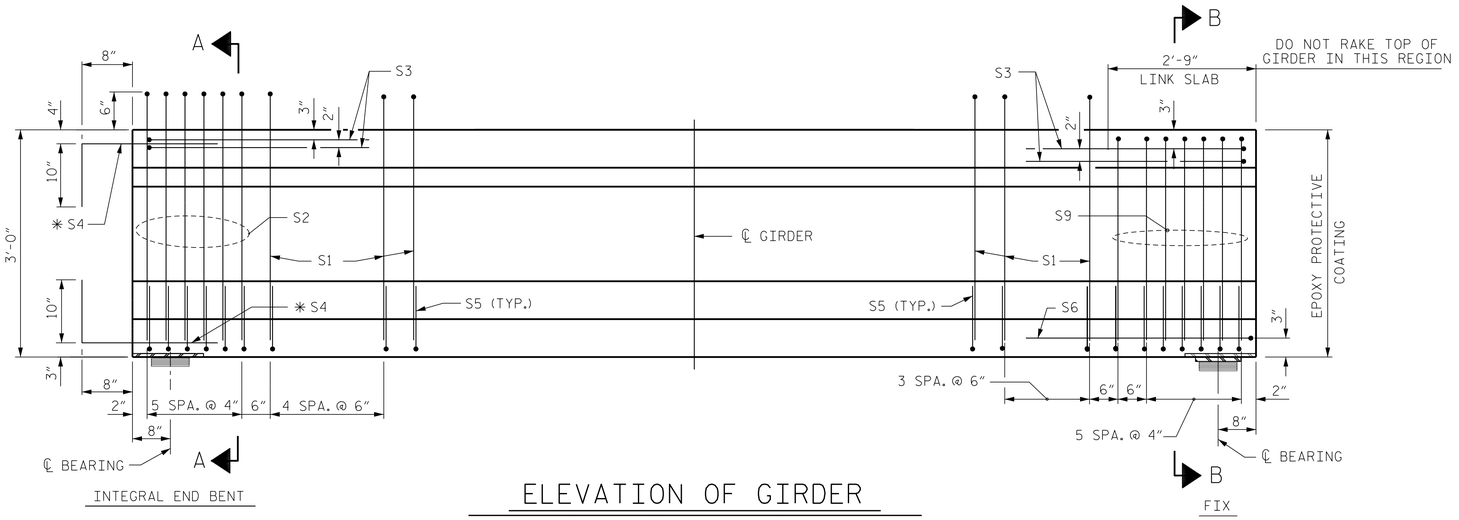


AT END OF GIRDER | AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

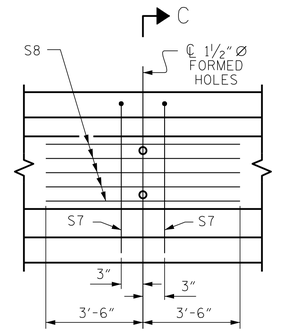


PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDERS

0.6"Ø L.R. GRADE 270 STRANDS

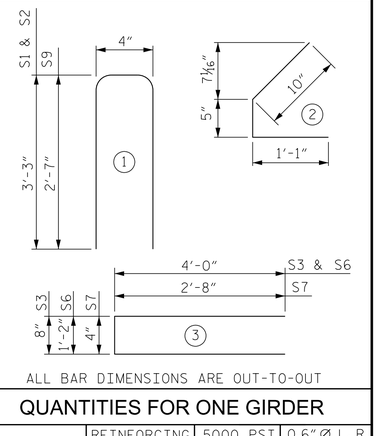
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	39	#4	1	6'-10"	178
S2	6	#5	1	6'-10"	43
S3	4	#4	3	8'-8"	23
✳S4	8	#5	STR	3'-8"	31
S5	48	#4	2	2'-4"	75
S6	1	#4	3	9'-2"	6
S7	2	#5	3	5'-8"	12
S8	5	#4	STR	7'-0"	23
S9	7	#5	1	5'-6"	40

✳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 LB.	5000 PSI CONCRETE C.Y.	0.6"Ø L.R. STRANDS No.
GIRDER	431	3.7	12

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	38'-10½"	194.38

PROJECT NO. BR-0062

ANSON COUNTY

STATION: 18+07.50 -L-

SHEET 1 OF 5

ENGINEER OF RECORD
1/22/2024

NORTH CAROLINA PROFESSIONAL SEAL 37400 ENGINEER GREGORY M. GILLAND

DocuSigned by: Gregory M. Gilland

WITHERILL ENGINEERING

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD AASHTO TYPE II PRESTRESSED CONCRETE GIRDER - LINK SLAB SPAN A

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-15
1			3			TOTAL SHEETS
2			4			35

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY : D. HODGE	DATE : 5/23	DRAWN BY : BNB 09/21	
CHECKED BY : G. GILLAND	DATE : 7/23	CHECKED BY : AAI 09/21	

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STD. NO. PCG4 (SHT. 1)