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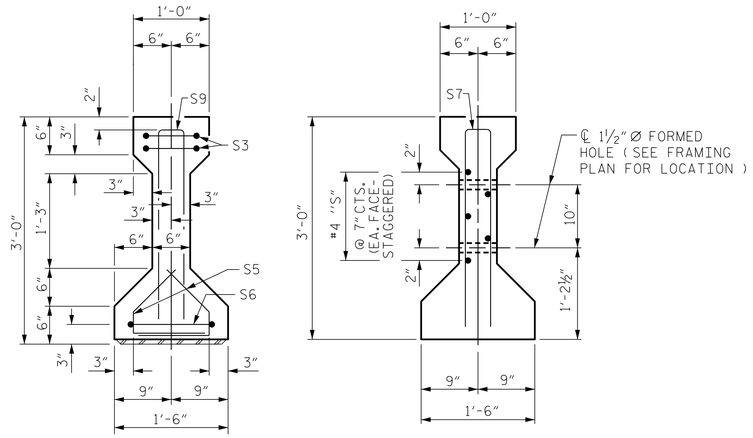
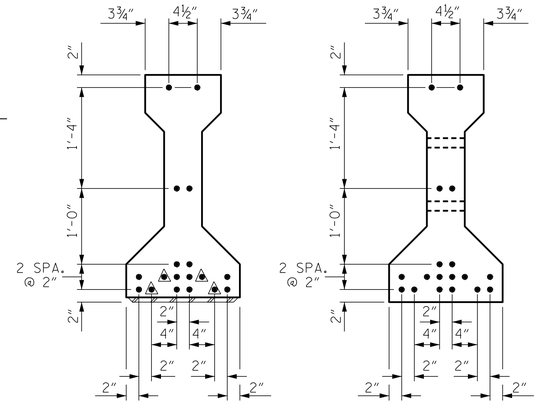


SECTION B-B
(S1 BARS NOT SHOWN)

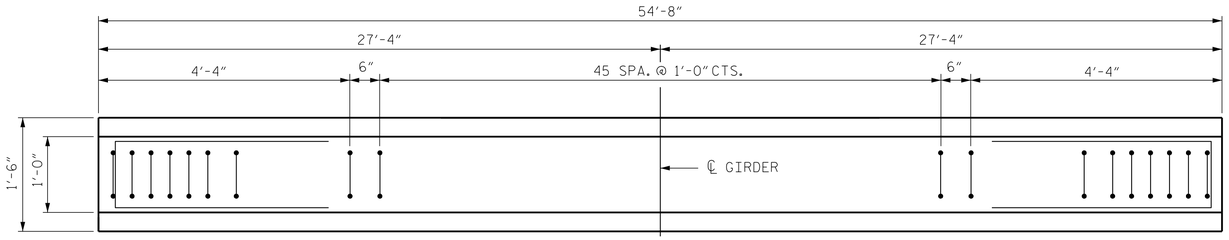
SECTION C-C

DEBONDING LEGEND

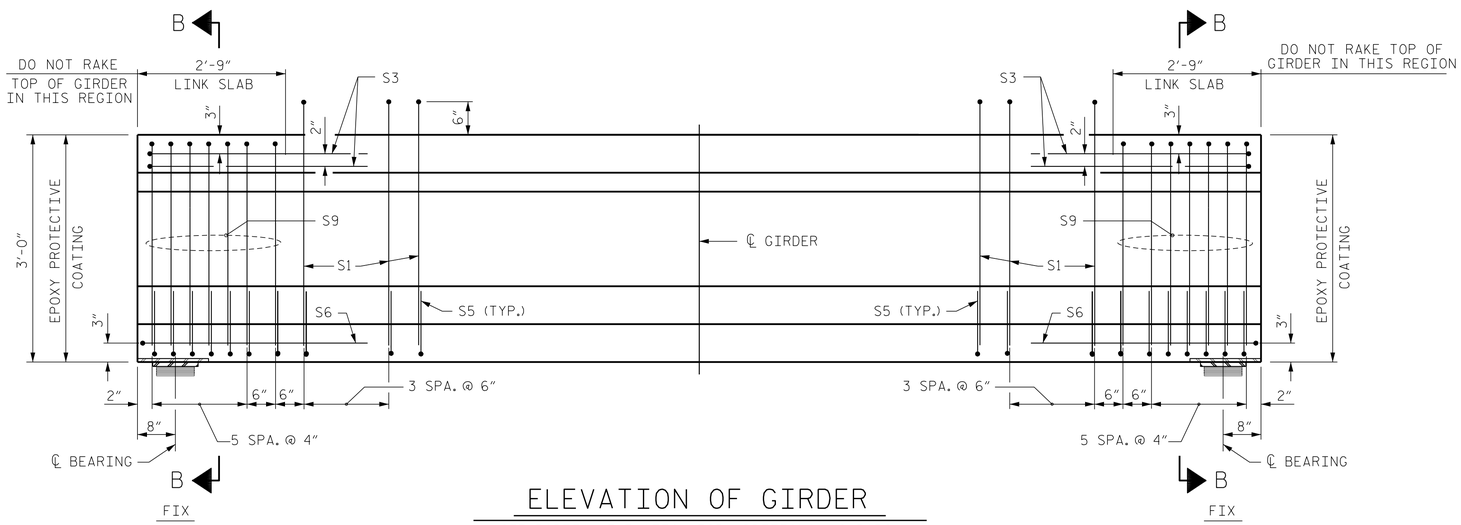
- ● FULLY BONDED STRANDS
- △ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER



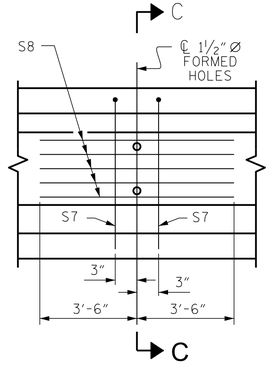
0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION OF GIRDER
(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDERS

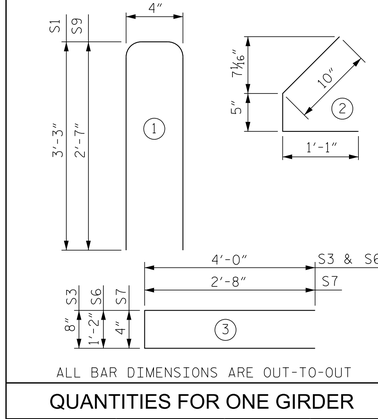
0.6"Ø L.R. GRADE 270 STRANDS

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	54	#4	1	6'-10"	246
S3	4	#4	3	8'-8"	23
S5	48	#4	2	2'-4"	75
S6	2	#4	3	9'-2"	12
S7	2	#5	3	5'-8"	12
S8	5	#4	STR	7'-0"	23
S9	14	#5	1	5'-6"	80

BAR TYPES



ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	7500 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
GIRDER	471	5.2	18

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	54'-8"	273.33

PROJECT NO. BR-0062
ANSON COUNTY
STATION: 18+07.50 -L-

SHEET 2 OF 5

ENGINEER OF RECORD
1/22/2024
NORTH CAROLINA PROFESSIONAL SEAL 37400 ENGINEER GREGORY M. GILLAND
Docusigned by: Gregory M. Gilland
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			35

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

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STD. NO. PCG4 (SHT. 1)