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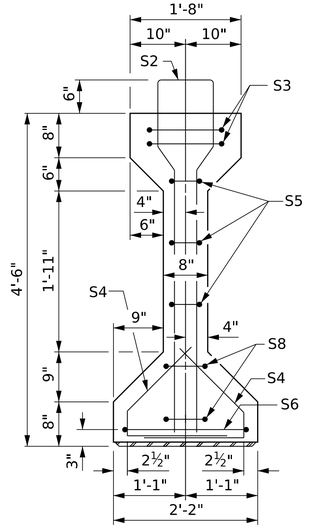
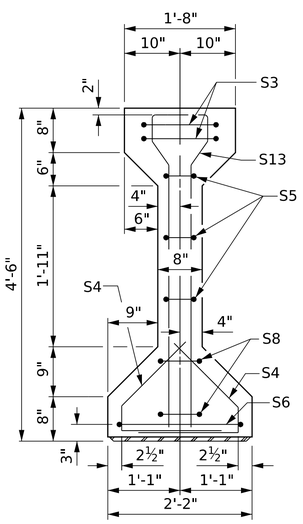
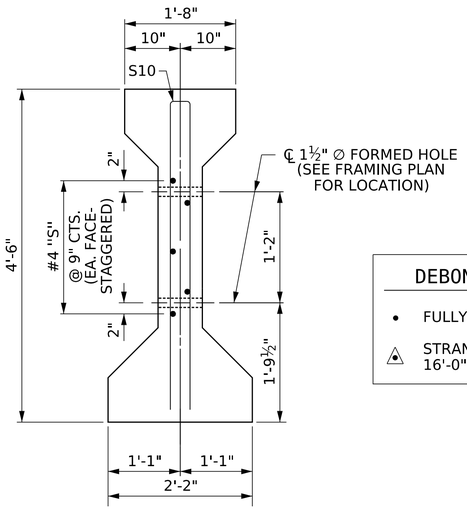


SECTION A-A



SECTION B-B

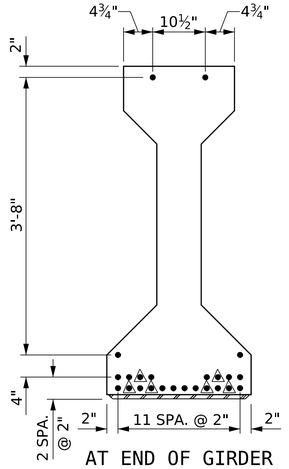


SECTION C-C

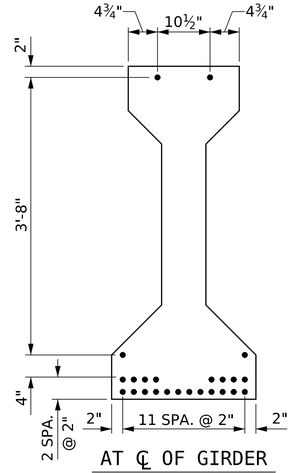
(S1 BARS NOT SHOWN)

DEBONDING LEGEND

- • FULLY BONDED STRANDS
- ▲ STRANDS DEBONDED FOR 16'-0" FROM END OF GIRDER

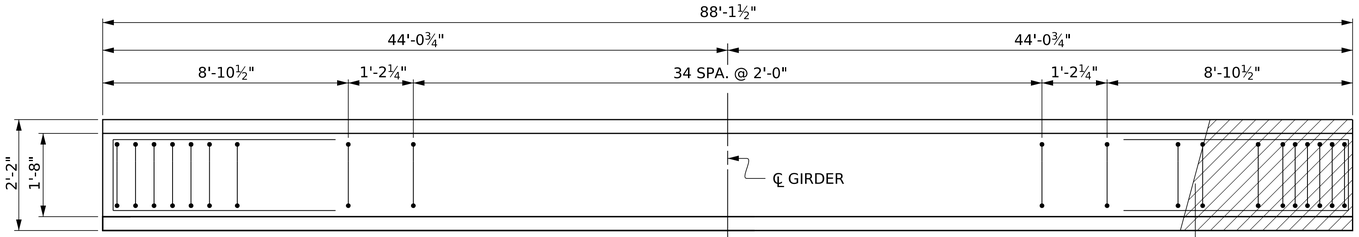


AT END OF GIRDER

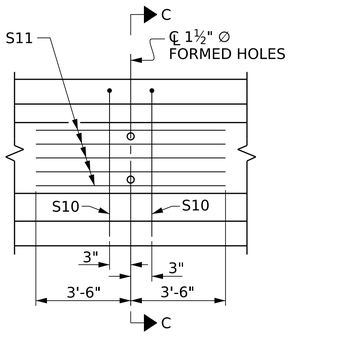


AT ℄ OF GIRDER

0.6" ⌀ LOW RELAXATION STRAND LAYOUT

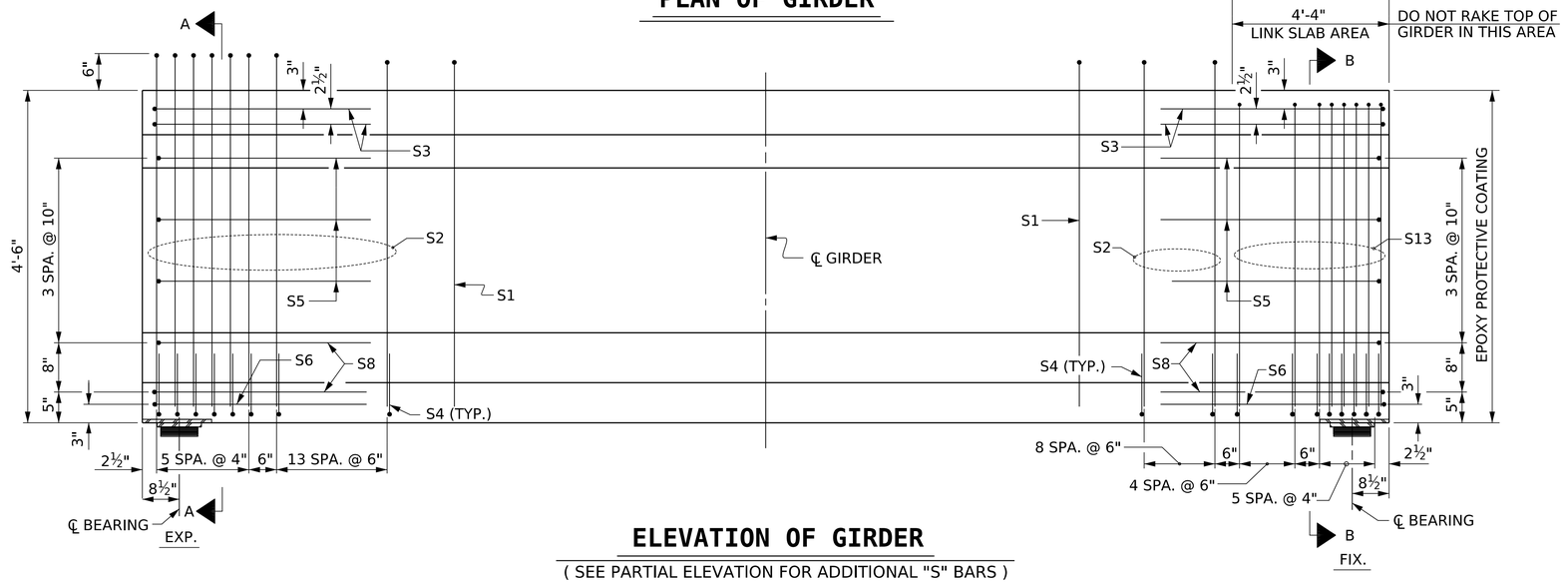


PLAN OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 1 THRU 5



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

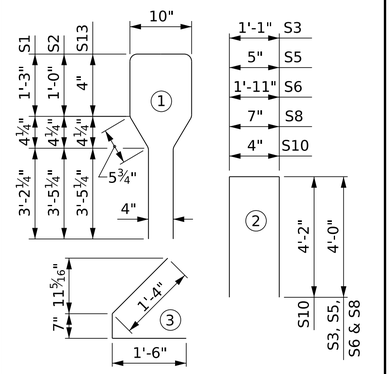
0.6"⌀ L.R. GRADE 270 STRANDS

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	35	#4	1	10'-8"	249
S2	29	#6	1	10'-8"	465
S3	4	#4	2	9'-1"	24
S4	80	#4	3	3'-5"	183
S5	6	#4	2	8'-5"	34
S6	2	#4	2	9'-11"	13
S8	4	#4	2	8'-7"	23
S10	2	#5	2	8'-8"	18
S11	5	#4	STR	7'-0"	23
S13	11	#6	1	9'-4"	154

BAR TYPES



ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	8500 PSI CONCRETE	0.6" ∅ L. R. STRANDS
	LB.	C.Y.	No.
	1186	17.9	24

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
10	88'-1½"	881'-3"

PROJECT NO. B-4926

LENOIR COUNTY

STATION: 25+45.00 -L-

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042838 PATRICK R. GALLAGHER
Digitally signed by Patrick R. Gallagher
DN: cn=Patrick R. Gallagher, o=Johnson, Mirmiran & Thompson, Inc., ou=Engineering, email=pgallagher@jmt.com, c=US
Date: 2023.09.07 14:57:39 -04'00'
9/7/2023

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD

AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER - LINK SLAB (SPANS A & F)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-18
1			3			TOTAL SHEETS
2			4			49

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Johnson, Mirmiran, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC, 27609
License No: C-3097

DWN. BY: WDC	DATE: 03/2023	DRAWN BY : BNB 09/21	
CHKD. BY: PRG	DATE: 03/2023	CHECKED BY : AAI 09/21	
DES. EGR. OF RECORD: PRG	DATE: 03/2023		

STD. NO. PCG6 (SHT. 1)

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TIME: 08:53 PM on Wednesday, September 06, 2023