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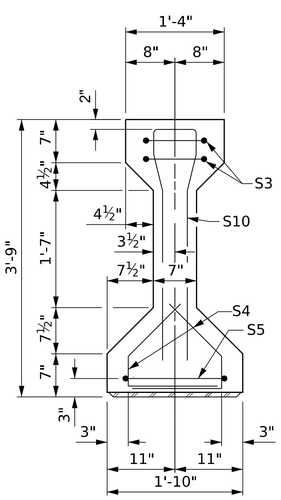
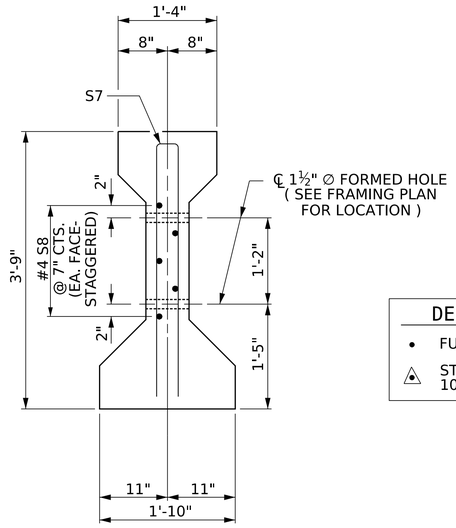
8/26/21



SECTION B-B

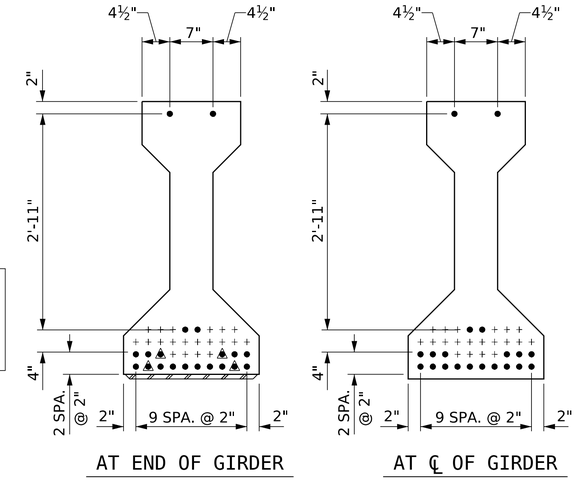


SECTION C-C

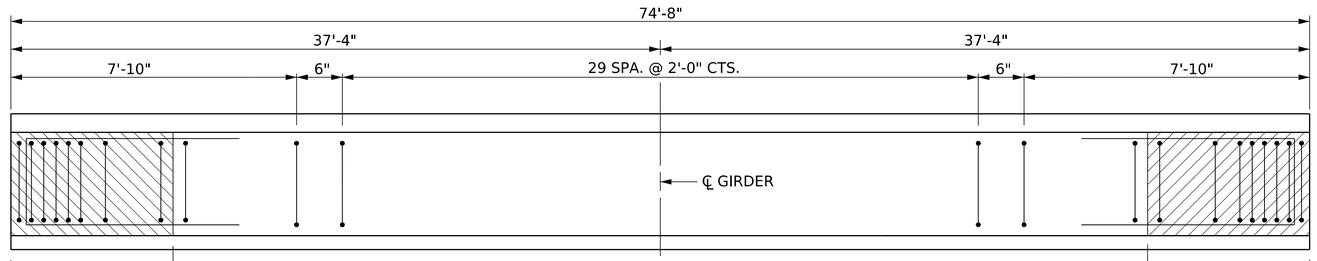
(S1 BARS NOT SHOWN)

DEBONDING LEGEND

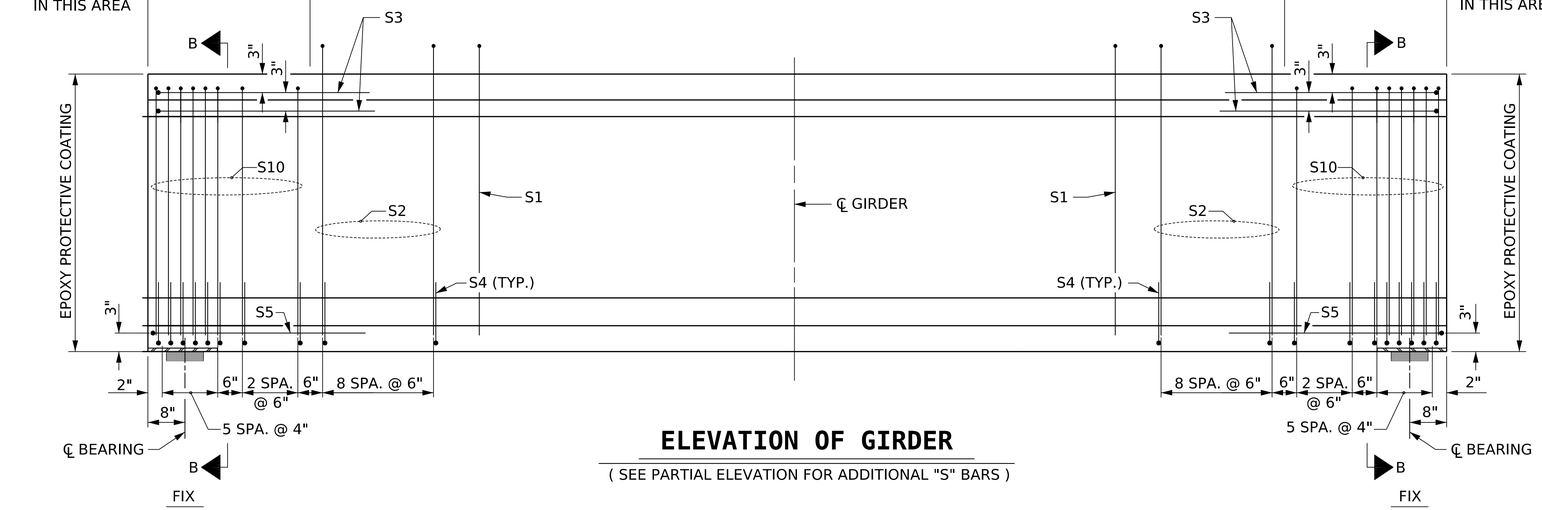
- • FULLY BONDED STRANDS
- △ STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER



0.6" ⌀ LOW RELAXATION STRAND LAYOUT

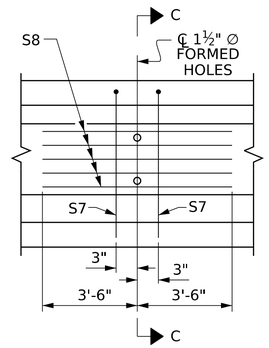


PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

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

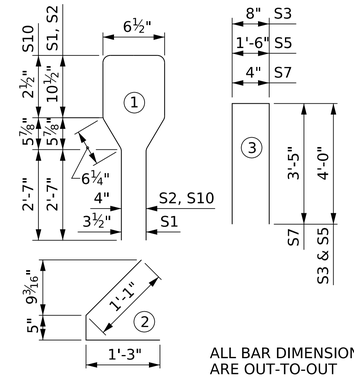
0.6"⌀ L.R. GRADE 270 STRANDS

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	30	#4	1	8'-6"	170
S2	18	#6	1	8'-6"	230
S3	4	#4	3	8'-8"	23
S4	72	#4	2	2'-9"	132
S5	2	#4	3	9'-6"	13
S7	2	#5	3	7'-2"	15
S8	5	#4	STR	7'-0"	23
S10	18	#6	1	7'-2"	194

BAR TYPES



ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	7500 PSI CONCRETE	0.6" ∅ L. R. STRANDS
	LB.	C.Y.	No.
	800	10.7	20

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	74'-8"	373'-4"

PROJECT NO. B-4926

LENOIR COUNTY

STATION: 35+00.00 -L-

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040322 PATRICK R. GALLAGHER 9/1/2023

Patrick Gallagher
DocuSigned by:
EBDE42FC0DE4D6C...
9/1/2023

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

AASHTO TYPE III PRESTRESSED CONCRETE GIRDER - LINK SLAB (SPAN B)

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-16
1			3			TOTAL SHEETS
2			4			39

DWN. BY: WDC DATE: 03/2023
CHKD. BY: PRG DATE: 03/2023
DES. EGR. OF RECORD: PRG DATE: 03/2023

DRAWN BY : ELR 8/91
CHECKED BY : GRP 8/91

REV. 1/15 MAA/TMG
REV. 12/17 MAA/THC
REV. 11/21 BNB/AAI

STD. NO. PCG5 (SHT. 1)

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TIME: 02:54 PM on Wednesday, September 06, 2023