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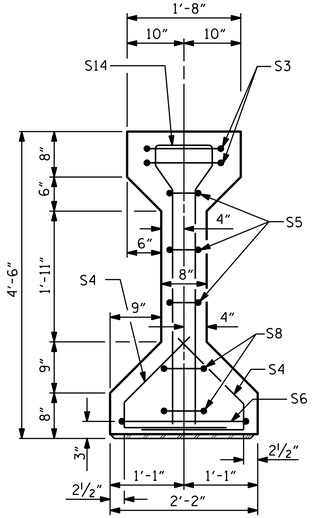
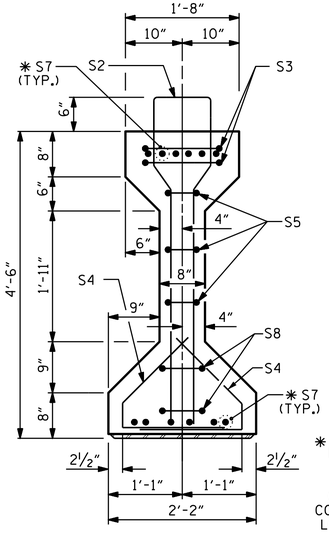
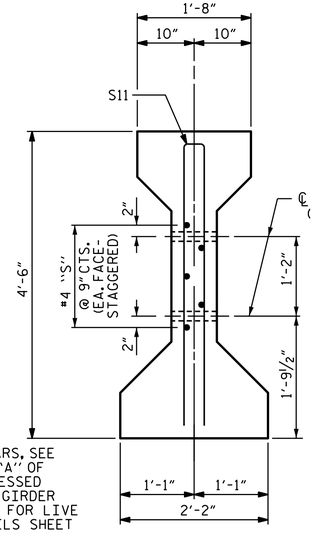


SECTION A-A

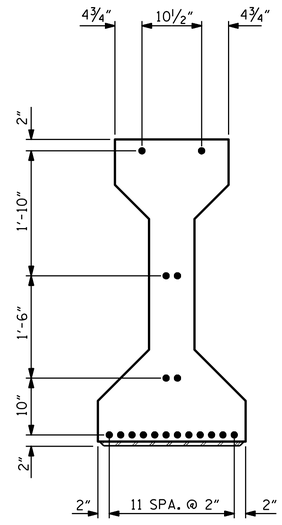


SECTION B-B

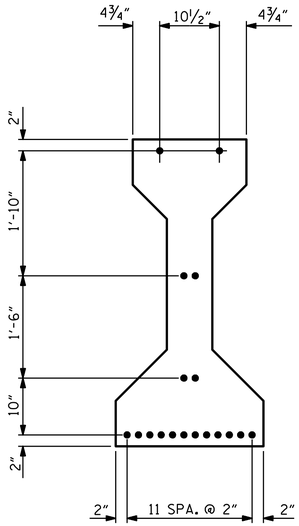


SECTION C-C
(S1 BARS NOT SHOWN)

* FOR S7 BARS, SEE DETAIL "A" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET

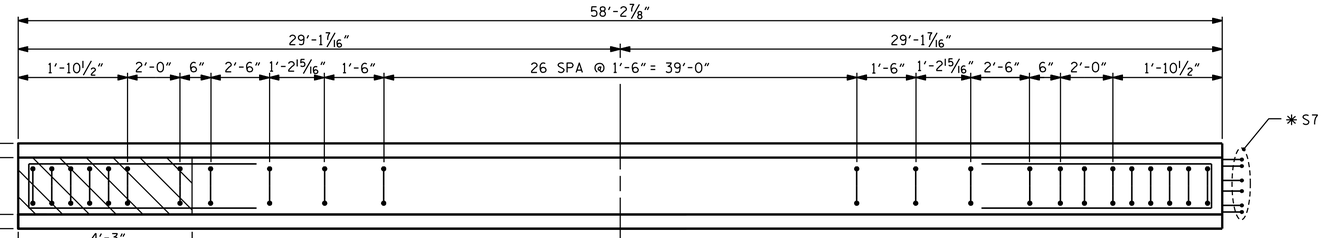


AT END OF GIRDER

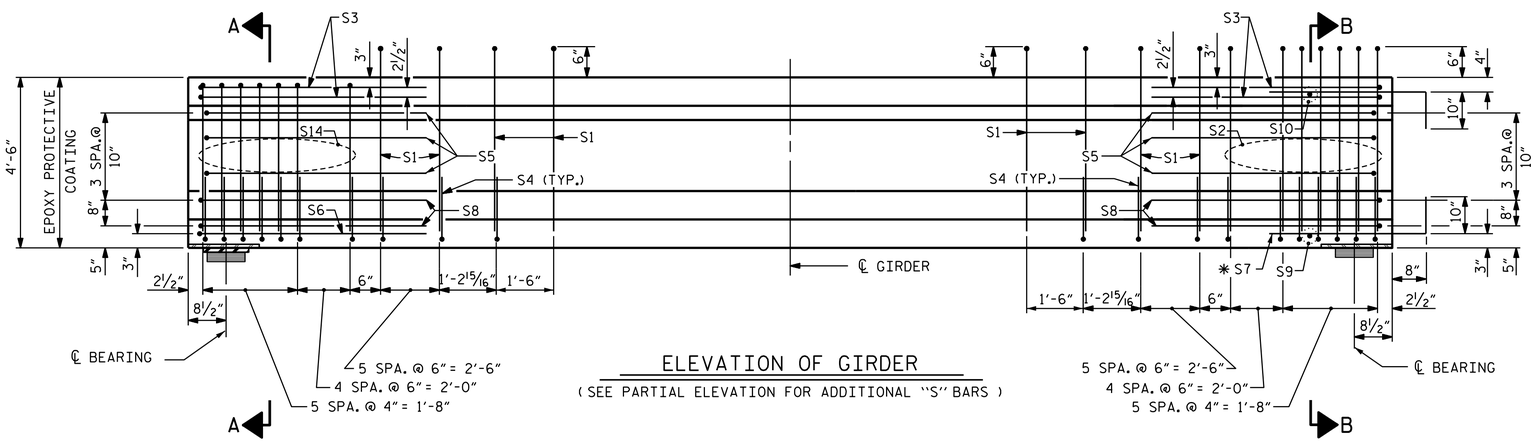


AT ℄ OF GIRDER

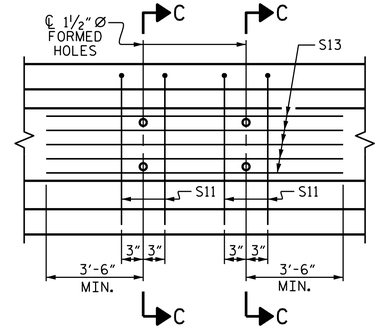
0.6" Ø LOW RELAXATION STRAND LAYOUT



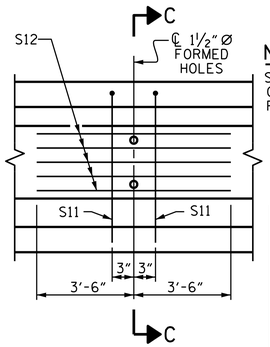
PLAN OF GIRDER



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



PARTIAL ELEVATION
SHOWING INTERMEDIATE DIAPHRAGM
REINFORCING STEEL FOR GIRDER Nos. C2, C3 and C4



PARTIAL ELEVATION
SHOWING INTERMEDIATE DIAPHRAGM
REINFORCING STEEL FOR GIRDER
Nos. C1 & C5

NOTE:
SEE GIRDER ELEVATION ON FRAMING PLAN FOR FORMED HOLE LOCATIONS.

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

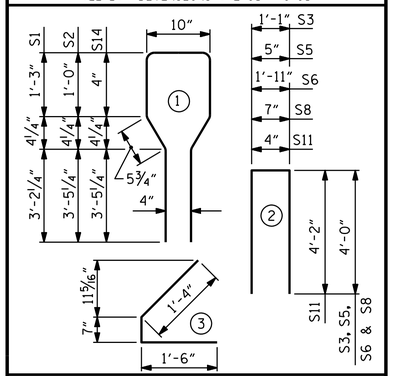
REINFORCING STEEL FOR ONE GIRDER

	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
	S1	41	#4	1	10'-8"	292
	S2	10	#6	1	10'-8"	160
	S3	4	#4	2	9'-1"	24
	S4	68	#4	3	3'-5"	155
	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	1	#3	STR	1'-10"	1
	S10	1	#3	STR	1'-4"	1
EXTERIOR GDR.	S11	2	#5	2	8'-8"	18
INTERIOR GDR.	S11	4	#5	2	8'-8"	36
EXTERIOR GDR.	S12	5	#4	STR	7'-0"	23
INTERIOR GDR.	S13	5	#4	STR	12'-1"	40
	S14	10	#6	1	9'-4"	140

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

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL LB.	6000 PSI CONCRETE C.Y.	0.6" Ø L.R. STRANDS No.
EXTERIOR GIRDER	924	11.8	18
INTERIOR GIRDER	959	11.8	18

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	58'-2⅞"	291'-2⅜"

PROJECT NO. B-5717
GUILFORD COUNTY
STATION: 21+22.00 -L-

SHEET 3 OF 5

AECOM
AECOM TECHNICAL SERVICES OF NC, INC.
5438 WADE PARK BOULEVARD, SUITE 200
RALEIGH, NC 27607
(919) 854-6200 www.aecom.com
AECOM License No. F-0342

NORTH CAROLINA PROFESSIONAL SEAL 041343 ENGINEER GREGORY R. COLS
Docusigned by:
4/8/2022

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
SPAN C
LEFT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-13
1			3			TOTAL SHEETS
2			4			38

ASSEMBLED BY : B. HODACK	DATE : 5/2021
CHECKED BY : G. HAMILTON	DATE : 9/2021
DRAWN BY : ELR 8/91	REV. 10/1/11 MAA/GM
CHECKED BY : GRP 8/91	REV. 1/15 MAA/TMG
	REV. 12/17 MAA/THC

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STD. NO. PCG6