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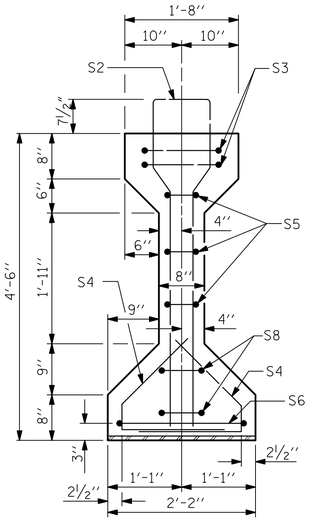
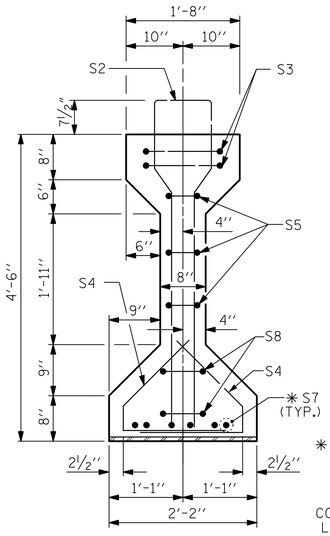
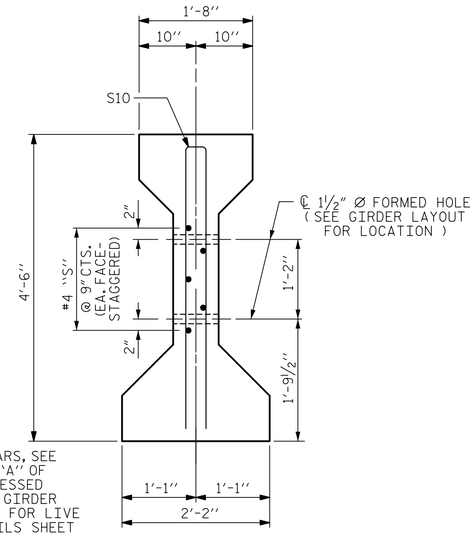


SECTION A-A



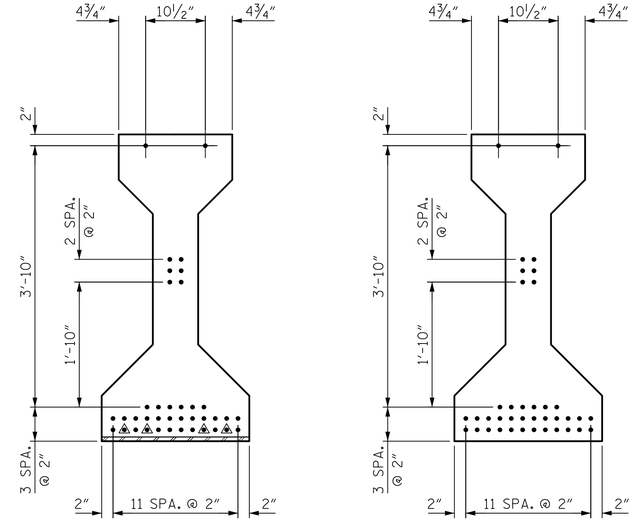
SECTION B-B

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



SECTION C-C

(S1 BARS NOT SHOWN)



AT END OF GIRDER

AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

● FULLY BONDED STRANDS

◬ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER

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

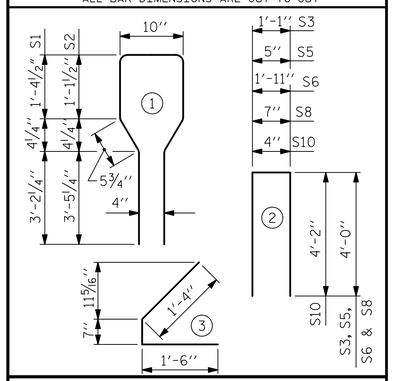
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	78	4	1	10'-11"	569
S2	20	6	1	10'-11"	328
S3	4	4	2	9'-1"	24
S4	72	4	3	3'-5"	164
S5	6	4	2	8'-5"	34
S6	1	4	2	9'-11"	7
✳ S7	6	5	STR.	3'-8"	23
S8	4	4	2	8'-7"	23
S9	1	4	STR.	1'-10"	1
S10	2	4	2	8'-8"	12
S11	5	4	STR.	7'-0"	23

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

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT

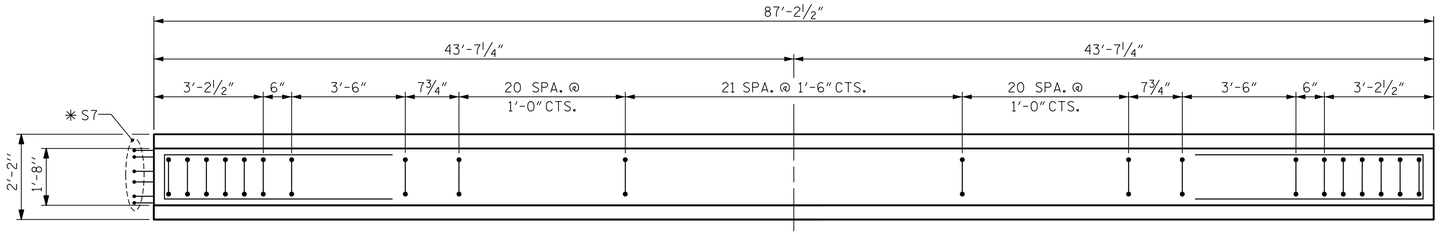


QUANTITIES FOR ONE GIRDER

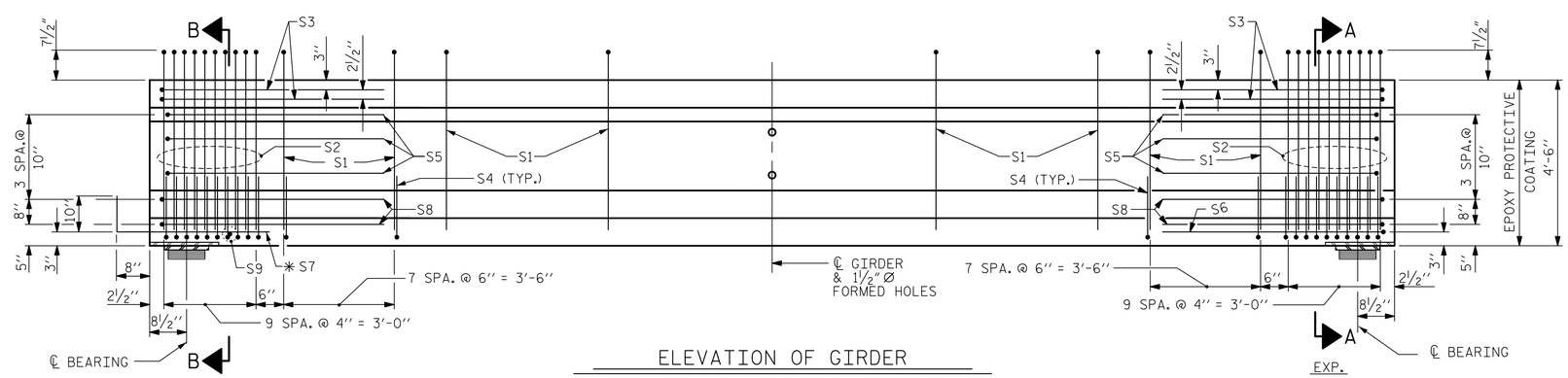
SPAN C	REINFORCING STEEL LB.	8500 PSI CONCRETE C.Y.	0.6" Ø L.R. STRANDS No.
EXT. & INT. GDRS	1208	17.7	38

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	87'-2 1/2"	697.67

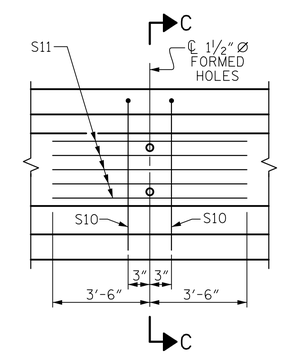


PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)
(SEE "FRAMING PLAN" SHEETS FOR GIRDER ORIENTATION)



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS

PROJECT NO. B-5103

NEW HANOVER COUNTY

STATION: 16+84.96 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

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

ASSEMBLED BY : M. K. TOM	DATE : 7/10/14
CHECKED BY : G. L. HAMILTON	DATE : 8/18/14
DESIGNED BY : M. K. TOM	DATE : 7/2/14
DRAWN BY : ELR 8/91	REV. 10/17/00R RWW/LES
CHECKED BY : GRP 8/91	REV. 5/1/06R TLA/GM
	REV. 10/1/11 MAA/GM

Prepared by
URS
URS Corporation - North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, NC 27560
PHONE: (919) 461-1100 FAX: (919) 461-1415
NC LIC.# C-2243

11/5/2014
NORTH CAROLINA PROFESSIONAL SEAL 038447 ENGINEER ANDREW S. MILLER
DocuSigned by: Andrew S. Miller
D5D820D9405446D...

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-15
1			3					TOTAL SHEETS
2			4					48

STD. NO. PCG6