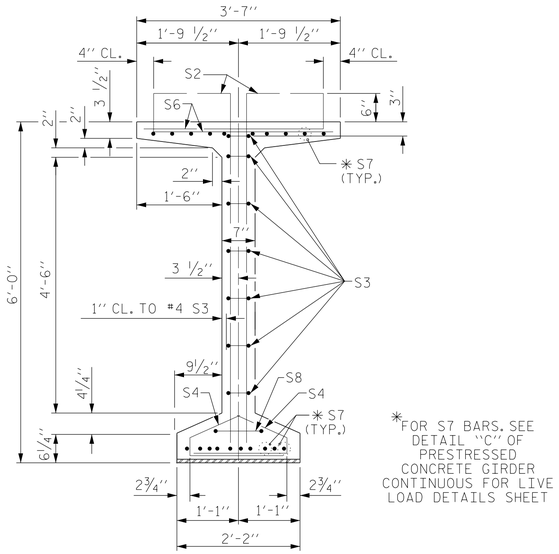
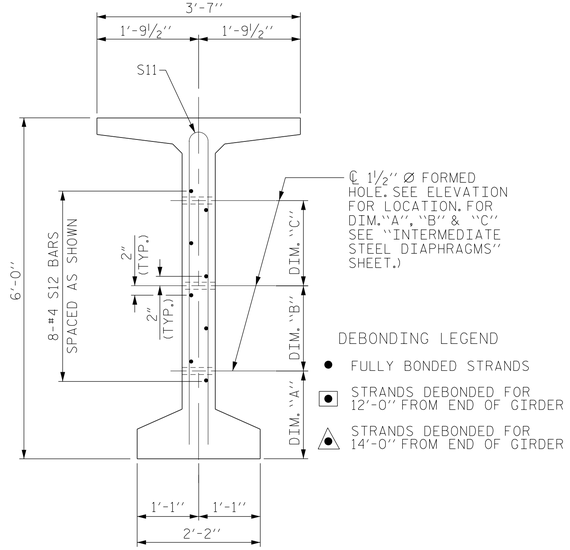


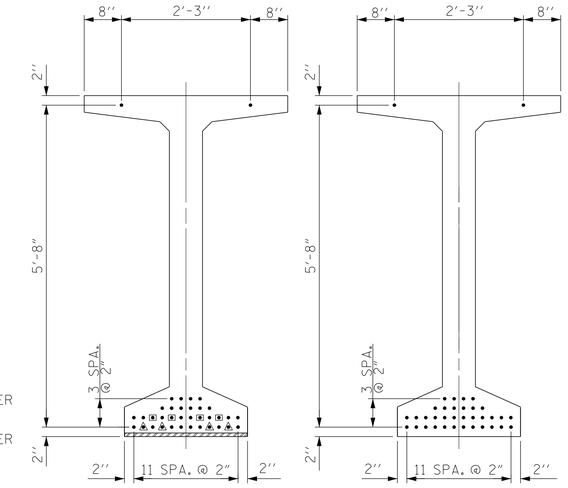
✱FOR S7 BARS. SEE DETAIL "C" OF PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS SHEET

SECTION A-A



SECTION C-C

(S1, S6 AND S9 BARS NOT SHOWN)



0.6" Ø LOW RELAXATION STRAND LAYOUT

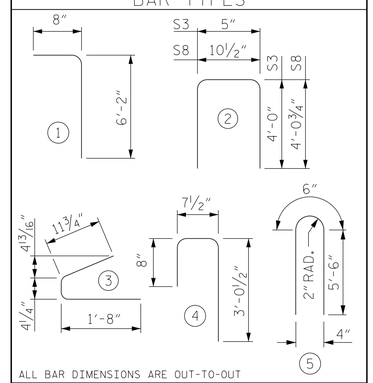
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	252	#4	1	6'-10"	1150
S2	24	#5	1	6'-10"	171
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	276	#5	4	4'-4"	1247
✱ S7	40	#5	STR	3'-8"	153
S8	2	#5	2	9'-0"	19
S9	47	#5	STR	3'-3"	159
S10	2	#3	STR	1'-10"	1
S11	8	#5	5	11'-6"	96
S12	16	#4	STR	8'-0"	86

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

BAR TYPES

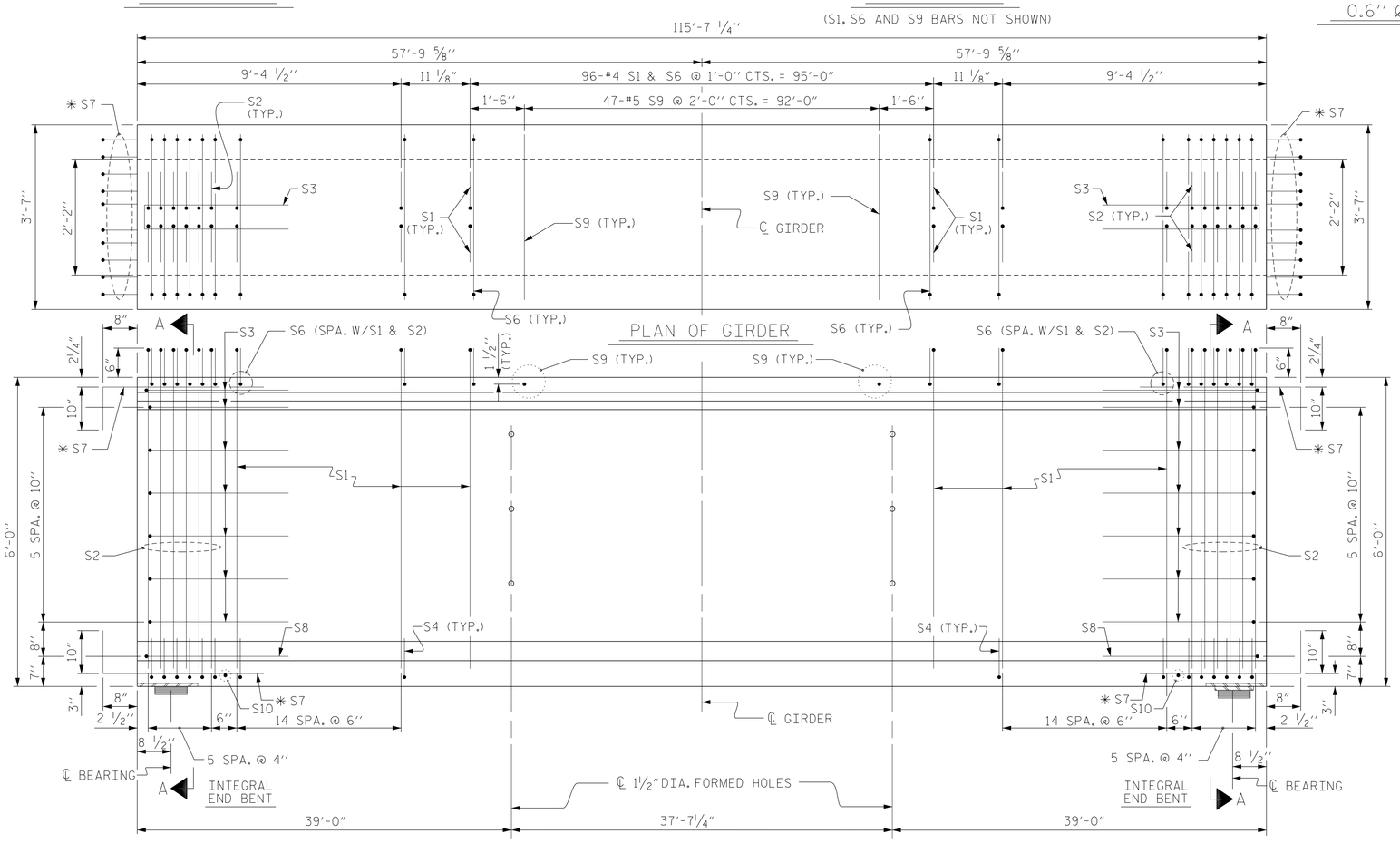


QUANTITIES FOR ONE GIRDER

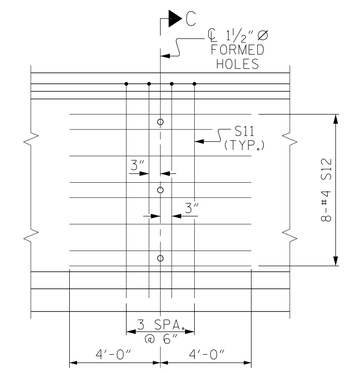
	REINFORCING STEEL	8500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
EXTERIOR GIRDER	3329	24.8	36
INTERIOR GIRDER	3329	24.8	36

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	115'-7 1/4"	578'-0 1/4"



ELEVATION OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL

PROJECT NO. I-0914BA

VANCE COUNTY

STATION: 419+67.07 -SBL- POT
13+96.65 -Y7- POT

SHEET 1 OF 1

NORTH CAROLINA PROFESSIONAL SEAL 11725 ENGINEER DAVID R. RUGGLES

DocuSigned by: David Ruggles C4627680DF412422... 11/21/2014

DWG. 12 OF 26

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
72" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD

STEWART
Firm License No. C-1051
421 Fayetteville St,
Suite 400
Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com

REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

SHEET NO. S-137

TOTAL SHEETS 177

DRAWN BY: J. LOFTUS	DATE : 05/14	
CHECKED BY: D. RUGGLES	DATE : 05/14	
DESIGN ENGINEER OF RECORD: D. RUGGLES	DATE : 04/14	

STD. NO. PCG8

SITE IV (-SBL-)