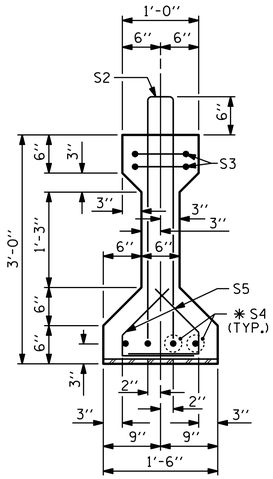
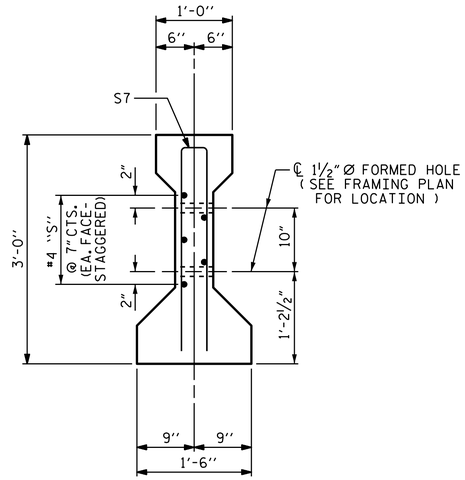
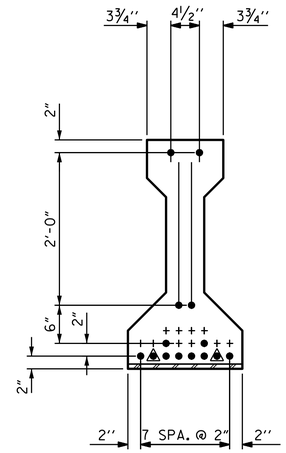


SECTION B-B

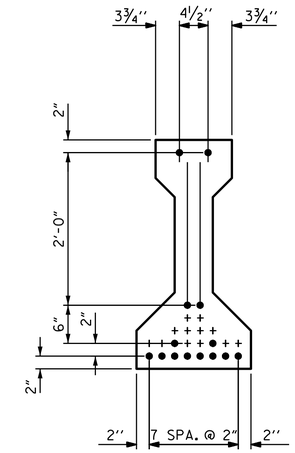


SECTION C-C

(S1 BARS NOT SHOWN)



AT END OF GIRDER

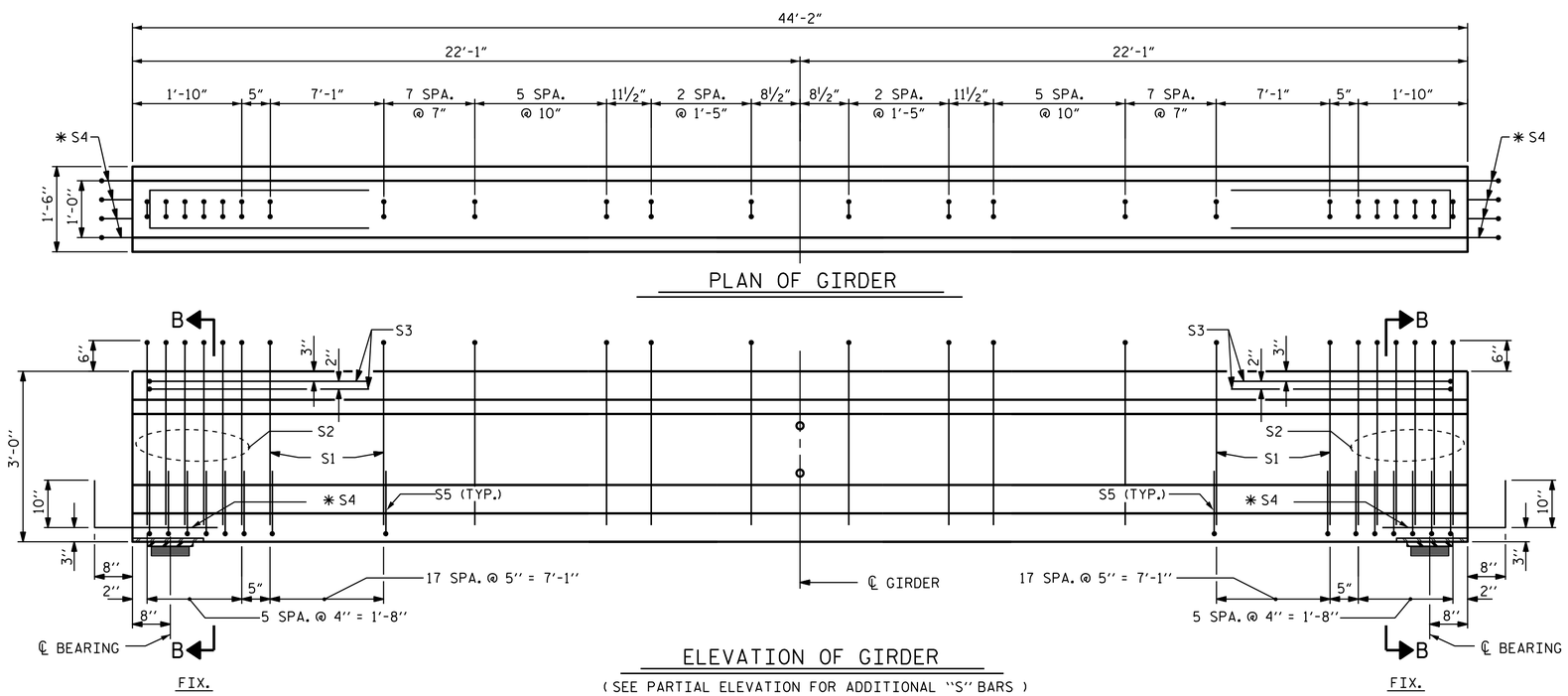


AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

DEBONDING LEGEND

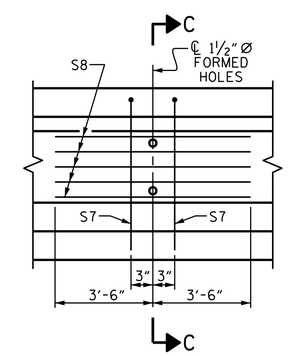
- ● FULLY BONDED STRANDS
- ▲ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER



PLAN OF GIRDER

ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL

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

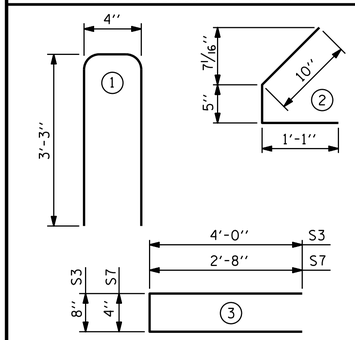
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	66	#4	1	6'-10"	301
S2	12	#5	1	6'-10"	86
S3	4	#4	3	8'-8"	23
✱ S4	8	#5	STR	3'-8"	31
S5	96	#4	2	2'-4"	150
S7	2	#5	3	5'-8"	12
S8	5	#4	STR	7'-0"	23

✱ NOTE: S4 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	6,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
	626	4.2	14

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
6	44'-2"	265'-0"

PROJECT NO. R-4903

BLADEN COUNTY

STATION: 67+16.50 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

AASHTO TYPE II
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD

(SPAN B)

NORTH CAROLINA PROFESSIONAL SEAL 10730 ENGINEER D. ANDRE DAVENPORT, JR.

DocuSigned by: D. Andre Davenport, Jr. 86DDC284F664495...
10/28/2014

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

SHEET NO. S-13

TOTAL SHEETS 92

STR. #1

STD. NO. PCG4

ASSEMBLED BY : J.P. ADAMS	DATE : 7/16/12
CHECKED BY : K.D. LAYNE	DATE : 8/15/12
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

DESIGN ENGINEER OF RECORD: B.N. GRADY DATE : 04/11/13

27-OCT-2014 09:22
R:\Structures\Plans\Str#1\R4903_SD_GS_01.dgn
dadavenport