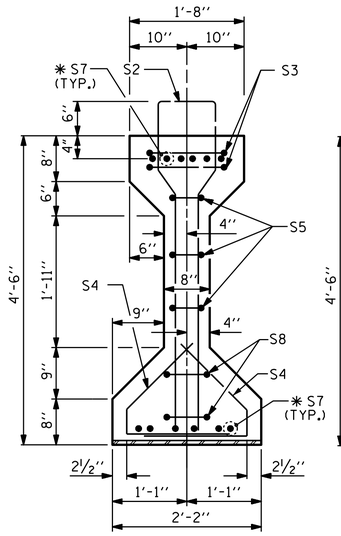
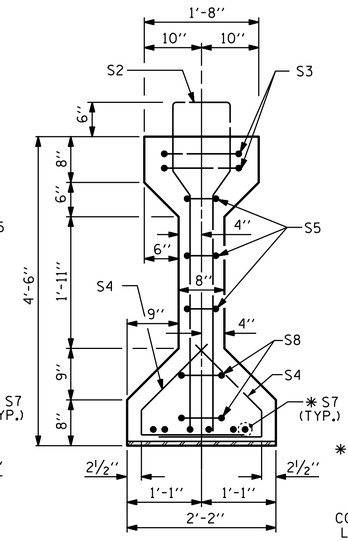
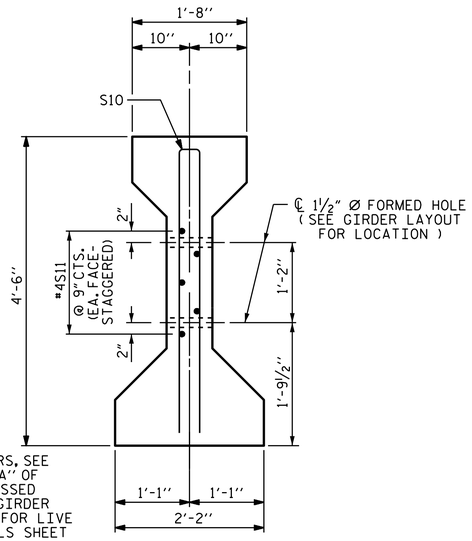


SECTION A-A



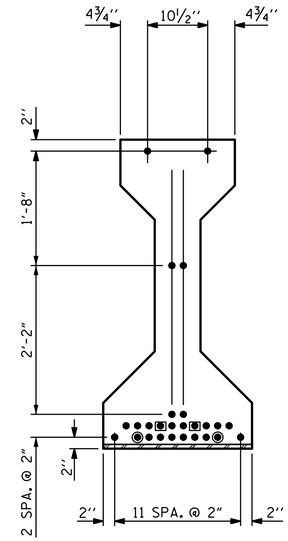
SECTION B-B

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

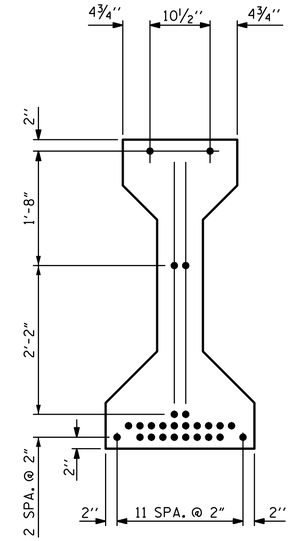


SECTION C-C

(S1 BARS NOT SHOWN)

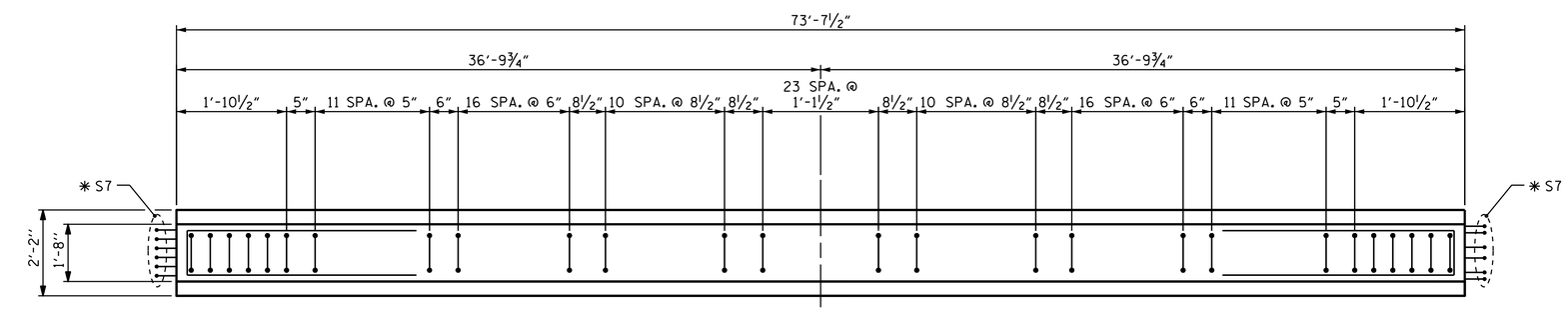


AT END OF GIRDER



AT ℄ OF GIRDER

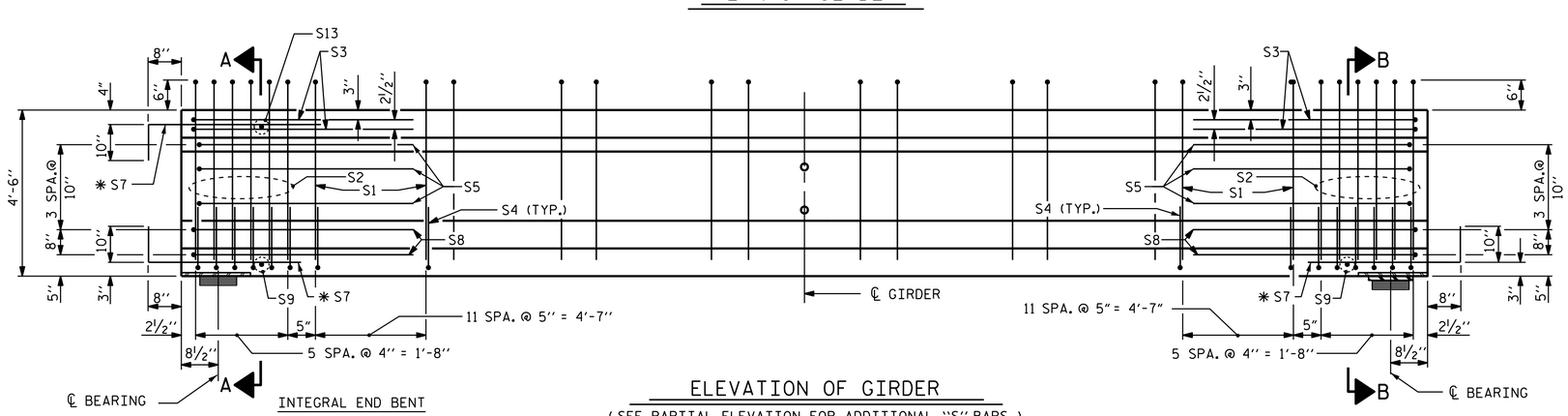
0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER

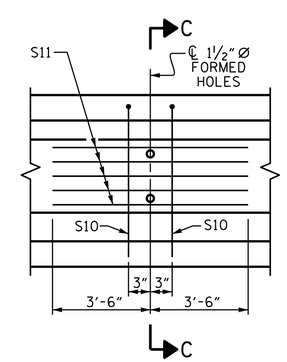
DEBONDING LEGEND

- ● FULLY BONDED STRANDS
- ▣ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ◉ STRANDS DEBONDED FOR 8'-0" FROM END 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

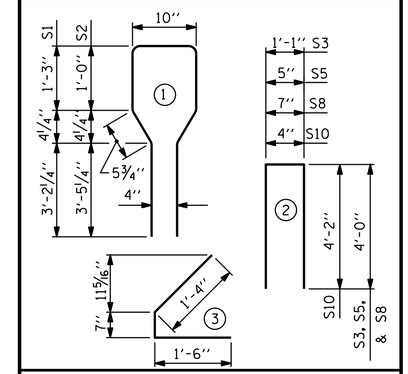
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	104	#4	1	10'-8"	741
S2	12	#6	1	10'-8"	192
S3	4	#4	2	9'-1"	24
S4	72	#4	3	3'-5"	164
S5	6	#4	2	8'-5"	34
* S7	18	#5	STR	3'-8"	69
S8	4	#4	2	8'-7"	23
S9	2	#3	STR	1'-10"	1
S10	2	#5	2	8'-8"	18
S11	5	#4	STR	7'-0"	23
S13	1	#3	STR	1'-4"	1

* 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.	5500 PSI CONCRETE C.Y.	0.6" Ø L.R. STRANDS No.
	1,290	14.9	26

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
12	73'-7½"	883'-6"

PROJECT NO. U-2579B

FORSYTH COUNTY

STATION: 556+85.00 -L-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
SPAN A AND SPAN C
(RIGHT LANE)

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

DocuSigned by: D. André Davenport, Jr. 8/4/2014
B95DC284F664495...

REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		S-120
1			3				TOTAL SHEETS
2			4				707

STR. #4

STD. NO. PCG6

ASSEMBLED BY : J.P. ADAMS	DATE : 8/16/12	
CHECKED BY : K.D. LAYNE	DATE : 5/2013	
DRAWN BY : ELR 8/91	REV. 10/17/00R RWW/LES	DESIGN ENGINEER OF RECORD:
CHECKED BY : GRP 8/91	REV. 5/1/06R TLA/GM	G.W. DICKEY DATE : 4/21/14
	REV. 10/1/11 MAA/GM	

04-AUG-2014 13:45
R:\Structures\Plans\Str04\U2579B_SD_G*_04.dgn
lsutton