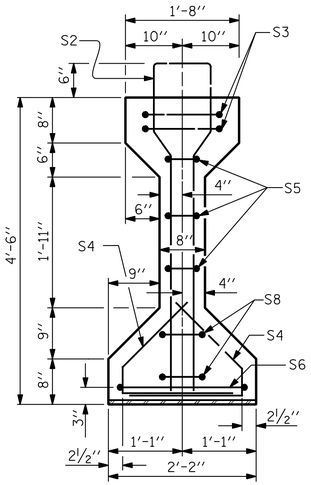
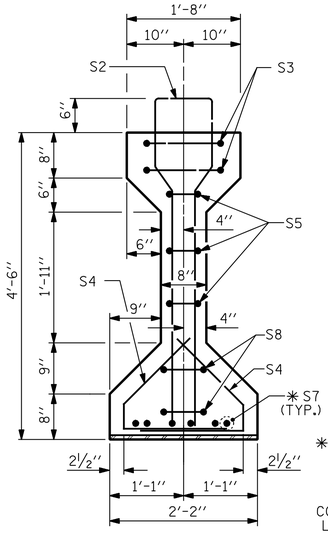
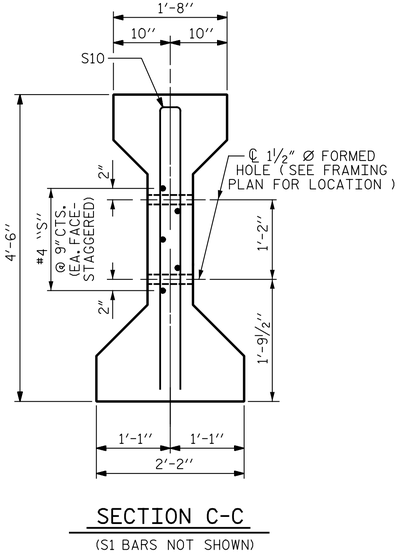


SECTION A-A



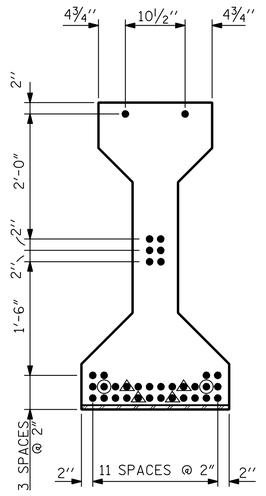
SECTION B-B

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

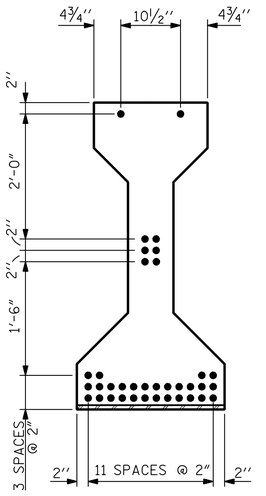


SECTION C-C

(S1 BARS NOT SHOWN)



AT END OF GIRDER

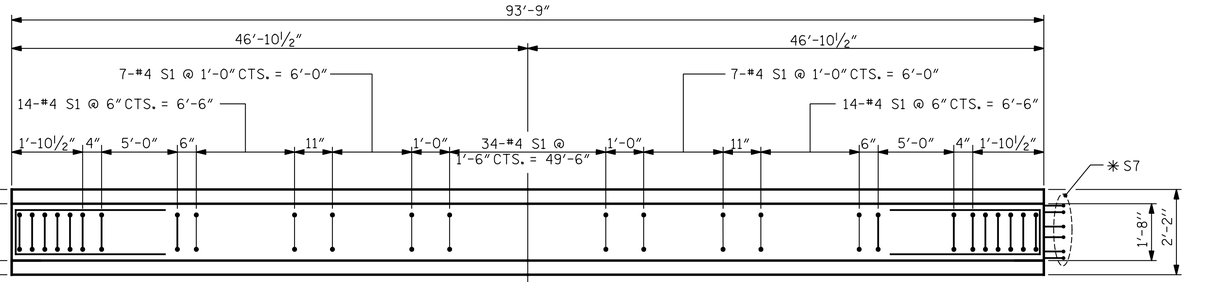


AT ℄ OF GIRDER

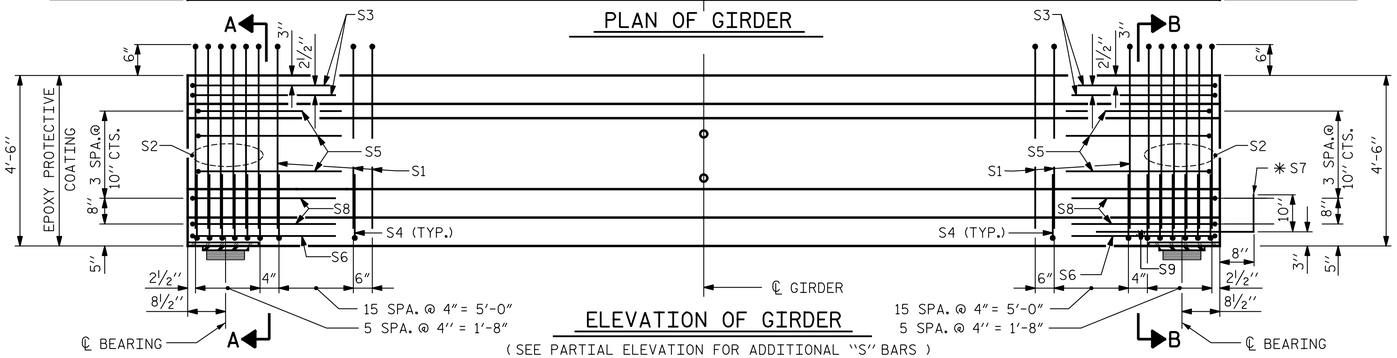
0.6" Ø LOW RELAXATION STRAND LAYOUT

DEBONDING LEGEND

- ● FULLY BONDED STRAND
- ▲ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- ◉ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER



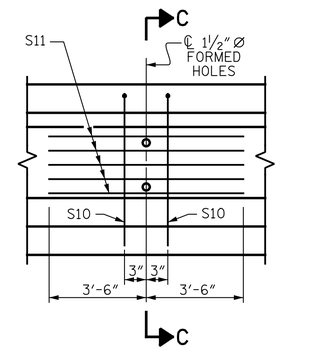
PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

EXP. FIXED



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

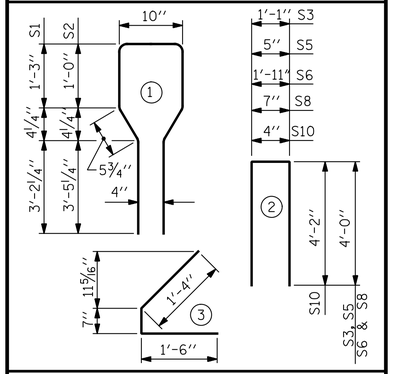
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	108	#4	1	10'-8"	770
S2	12	#6	1	10'-8"	192
S3	4	#4	2	9'-1"	24
S4	88	#4	3	3'-5"	201
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	#3	STR	1'-10"	1
S10	2	#5	2	8'-8"	18
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

	REINFORCING STEEL	8000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
	1316	19.0	36

GIRDERS REQUIRED

	NUMBER	LENGTH	TOTAL LENGTH
SPAN A	4	93'-9"	375'-0"
SPAN E	4	93'-9"	375'-0"

PROJECT NO. R-2514D

JONES COUNTY

STATION: 373+02.50 -L-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD AASHTO TYPE IV PRESTRESSED CONCRETE GIRDER SPAN A OR E

RIGHT LANE

STD. NO. PCG6 STR-#6

DocuSigned by: DB3C8E45B06D495...
4/13/2015

NORTH CAROLINA PROFESSIONAL SEAL 14114 ENGINEER ROBERT C. LARSON

DRAWN BY : JMB 12/87	REV. 8/16/99RR	RWW/LES
CHECKED BY : ARB 12/87	REV. 5/1/06R	TLA/GM
	REV. 10/1/11	MAA/GM
DESIGN ENGINEER OF RECORD DocuSigned by: DB3C8E45B06D495...	DATE : 4/13/2015	
DRAWN BY : Z. SU	DATE : 02/14/14	
CHECKED BY : R. C. LARSON	DATE : 03/16/14	

ENGINEERS ● PLANNERS ● ECOLOGISTS LICENSE NUMBER: C-0764
KCI Associates of North Carolina, P.A.
SUITE 220, LANDMARK CENTER II 4601 SIX FORKS RD. RALEIGH, N.C. 27609-5220 (919) 783-9104
DWG. REF. NO. 12 OF 34

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S06-12
1			3			TOTAL SHEETS
2			4			S06-34