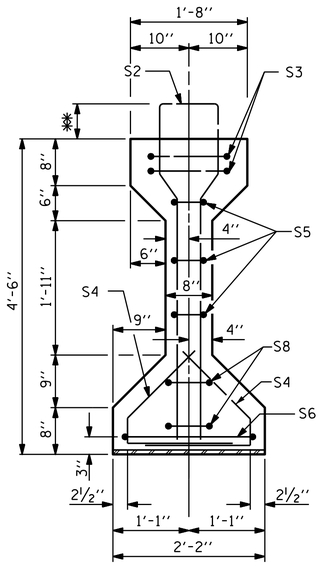
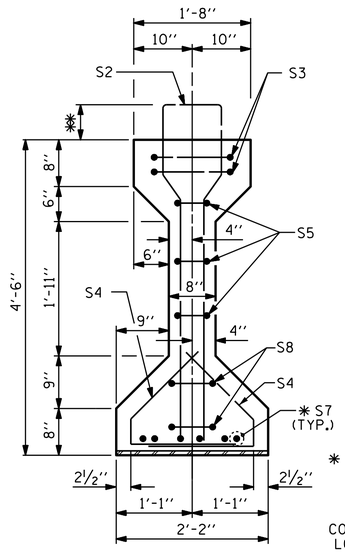
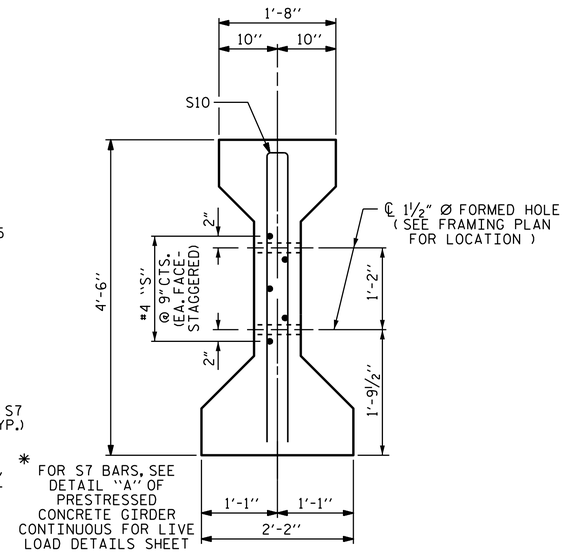


SECTION A-A



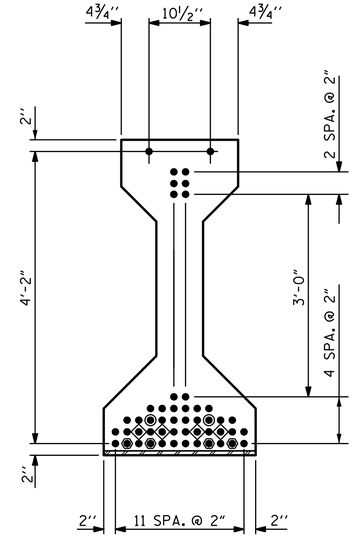
SECTION B-B



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

SECTION C-C

(S1 BARS NOT SHOWN)



0.6" Ø LOW RELAXATION STRAND LAYOUT

- ● FULLY BONDED STRANDS
- ◉ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
- ◈ STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER
- ◉ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

DEBONDING LEGEND

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

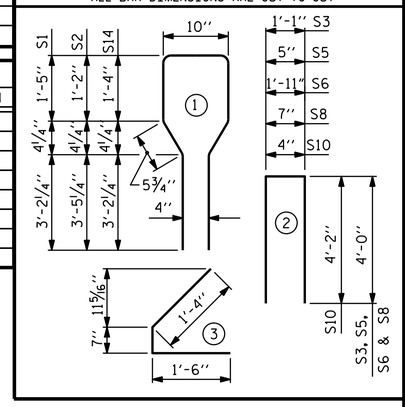
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	106	#4	1	11'-0"	779
S2	12	#6	1	11'-0"	198
S3	4	#4	2	9'-1"	24
S4	84	#4	3	3'-5"	192
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
S14	60	#4	1	10'-10"	434

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

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



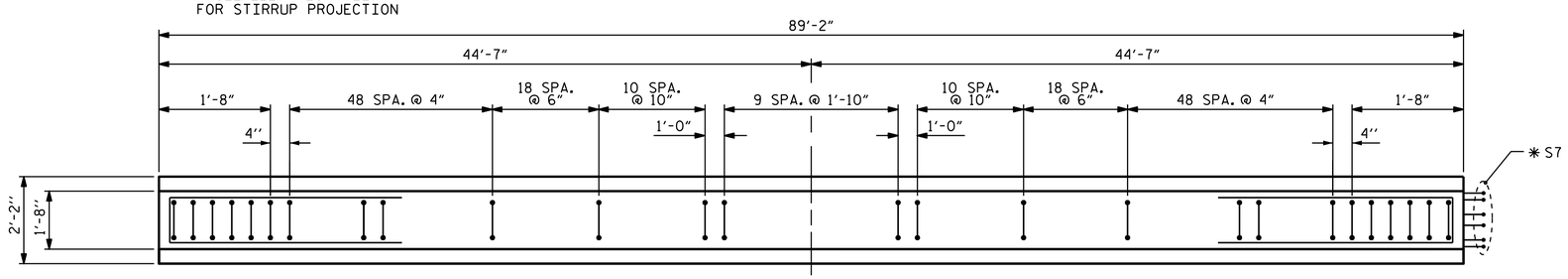
QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL LB.	9000 PSI CONCRETE C.Y.	0.6" Ø L. R. STRANDS No.
SPAN C	1756	18.1	50
SPAN D	1756	18.1	50
SPAN F	1756	18.1	50
SPAN G	1756	18.1	50
SPAN I	1756	18.1	50
SPAN J	1756	18.1	50
SPAN L	1756	18.1	50
SPAN M	1756	18.1	50

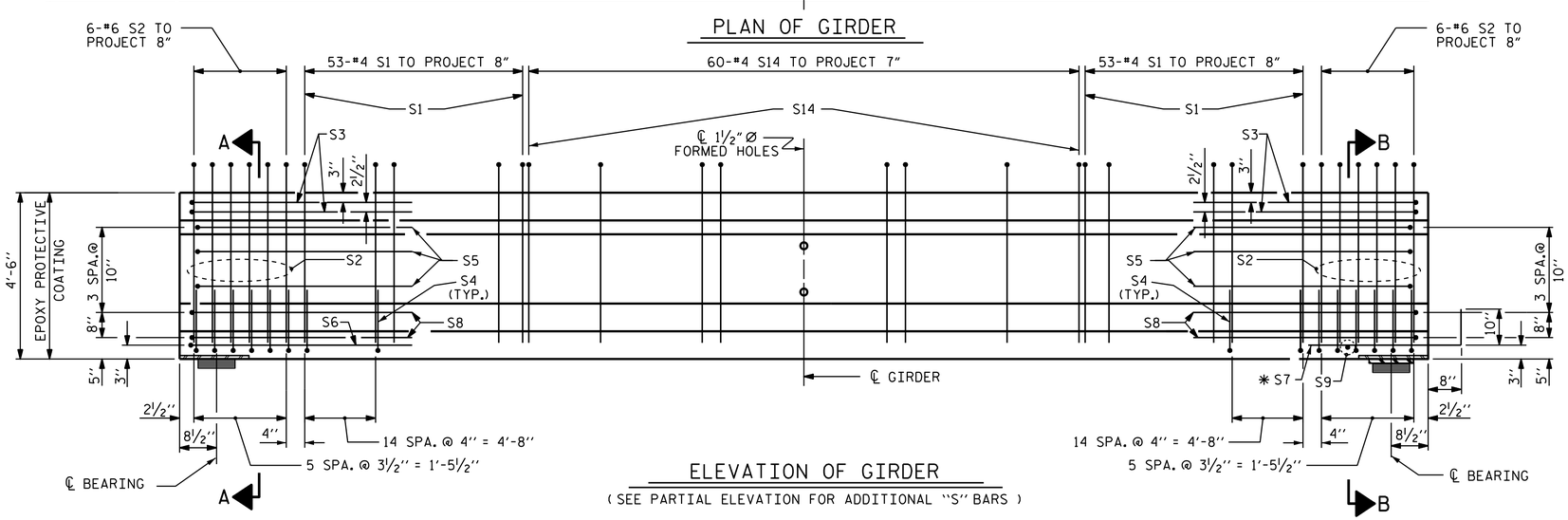
GIRDERS REQUIRED

	No.	LENGTH	TOTAL LENGTH
SPAN C	4	89'-2"	356'-8"
SPAN D	4	89'-2"	356'-8"
SPAN F	4	89'-2"	356'-8"
SPAN G	4	89'-2"	356'-8"
SPAN I	4	89'-2"	356'-8"
SPAN J	4	89'-2"	356'-8"
SPAN L	4	89'-2"	356'-8"
SPAN M	4	89'-2"	356'-8"

✱✱ SEE ELEVATION VIEW FOR STIRRUP PROJECTION

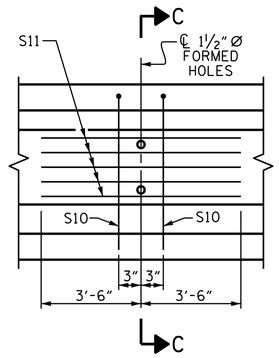


PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR ALL GIRDER.

PROJECT NO. B-4722B

CARTERET COUNTY

STATION: 47+75.00 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD

NORTH CAROLINA PROFESSIONAL SEAL 22005 ENGINEER A. KEITH PASCHAL

DocuSigned by: A. Keith Paschal F8B6AD6DB2FC48F... 1/16/2015

ASSEMBLED BY : D. G. ELY	DATE : 1/24/14
CHECKED BY : B. N. BARODAWALA	DATE : 3/31/14
DESIGN ENGINEER OF RECORD: M. M. AHMED	DATE : 10/14/14
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

REVISIONS

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

SHEET NO. S-18

TOTAL SHEETS 45

16-JAN-2015 15:10
R:\structures\Final Plans\B4722B_sd_PCG.dgn
kpaschal

STD. NO. PCG6 (Sht. 1)