

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

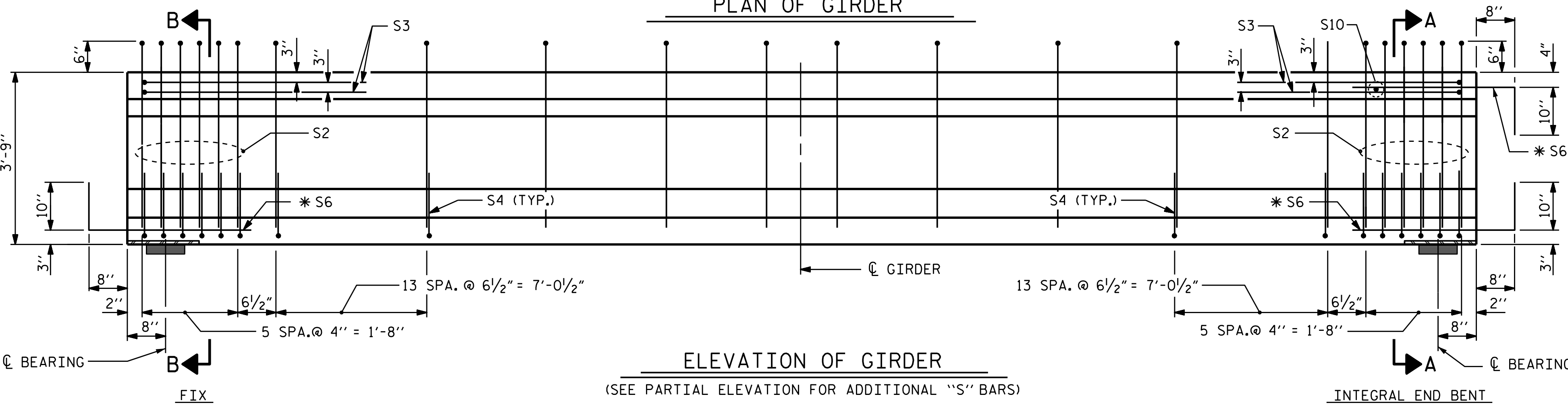
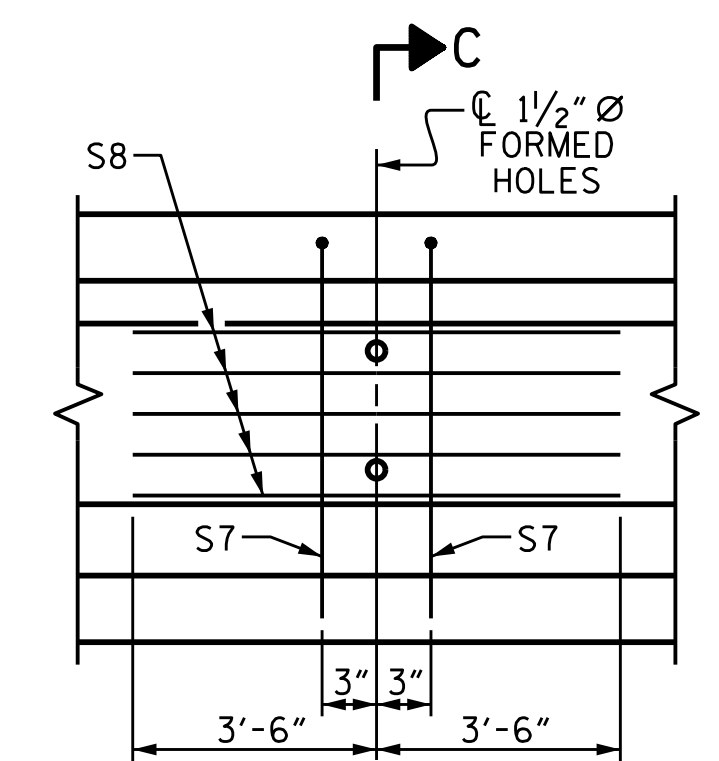
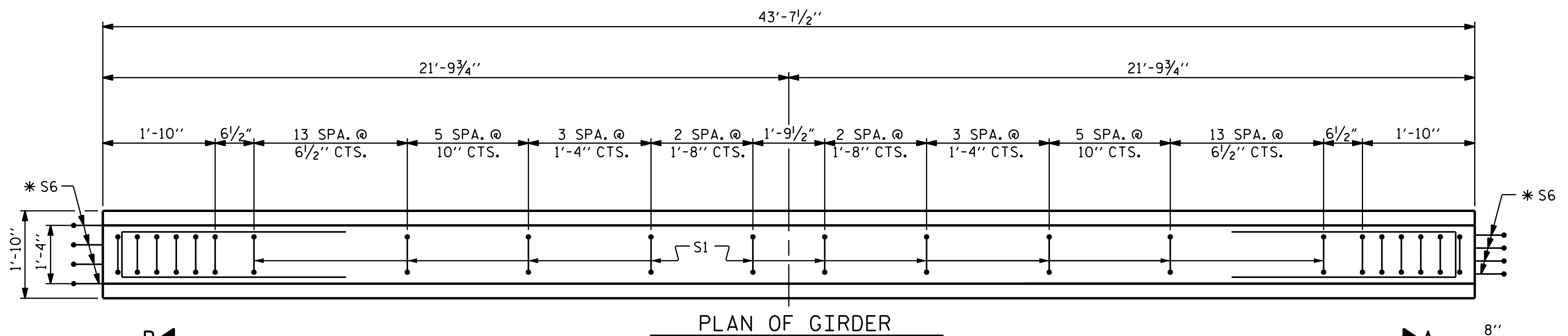
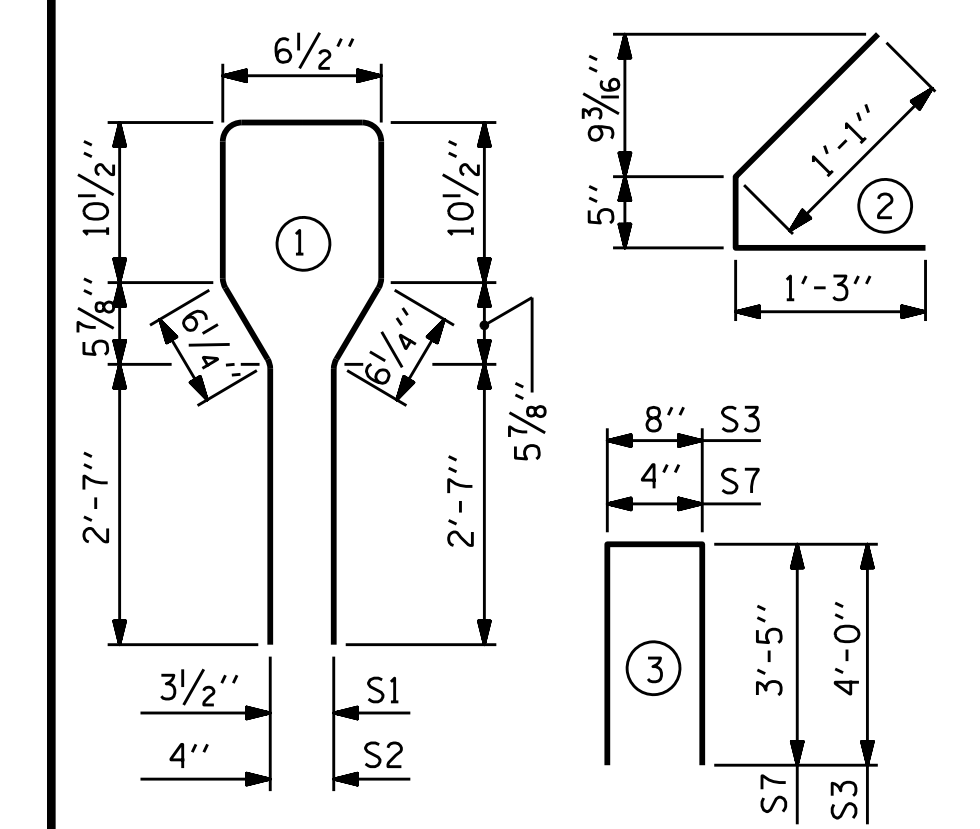
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	48	#4	1	8'-6"	273
S2	12	#6	1	8'-6"	153
S3	4	#4	3	8'-8"	23
S4	80	#4	2	2'-9"	147
*S6	12	#5	STR	3'-8"	46
S7	2	#5	3	7'-2"	15
S8	5	#4	STR	7'-0"	23
S10	1	#3	STR	1'-0"	1

\* NOTE: S6 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 LBS.	5000 PSI CONCRETE C.Y.	0.6" Ø L.R. STRANDS No.
681	6.3	12

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	43'-7 1/2"	174'-6"

PROJECT NO. R-2603  
WILKES COUNTY  
STATION: 117+35.00 -L-

SHEET 3 OF 5

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD  
AASHTO TYPE III  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS SPAN FOR LIVE LOAD  
SPAN C



REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-21	
1			3			TOTAL SHEETS 47	
2			4				

ASSEMBLED BY : D. A. GLADDEN DATE : 7-10-13  
CHECKED BY : H. T. BARBOUR DATE : 8-13  
DRAWN BY : ELR 8/91  
CHECKED BY : GRP 8/91

REV. 5/1/06R TLA/GM  
REV. 10/1/11 MAA/GM  
REV. 1/15 MAA/TMG  
DESIGN ENGINEER OF RECORD: B.A. DUKE DATE : 7-15