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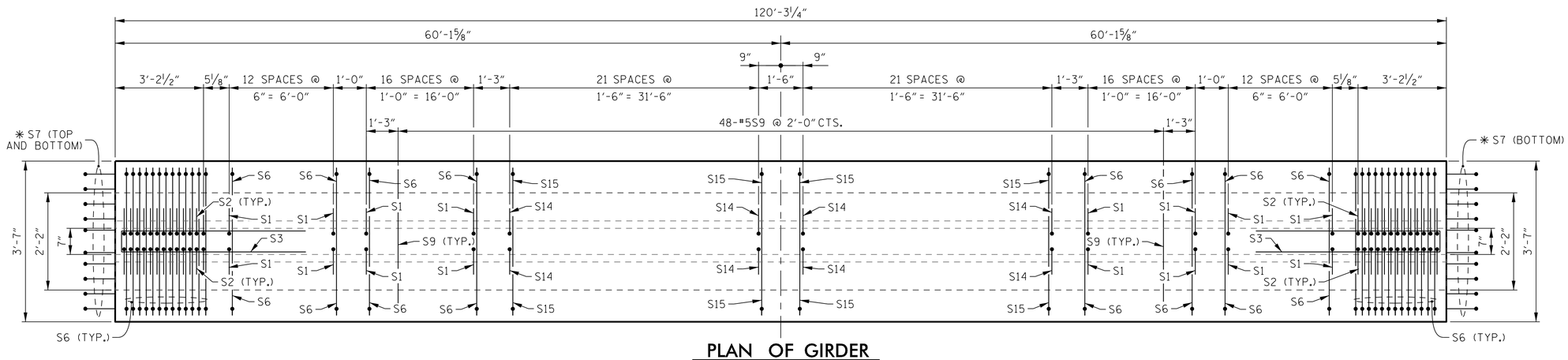
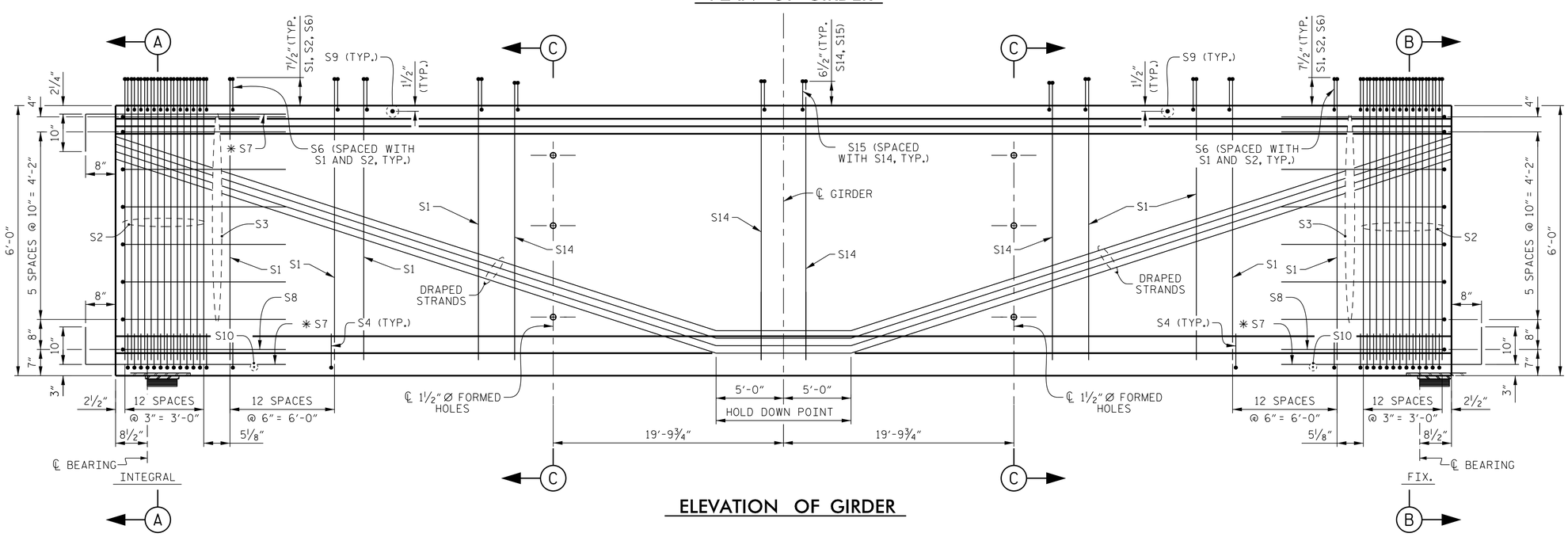


PLAN OF GIRDER



ELEVATION OF GIRDER

NOTES

THE UPLIFT FORCE DUE TO DRAPED STRANDS IS 27.6 KIPS.

FOR ALL SECTIONS, SEE SHEET 2 OF 3.

FOR STRAND PATTERN, SEE SHEET 2 OF 3.

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

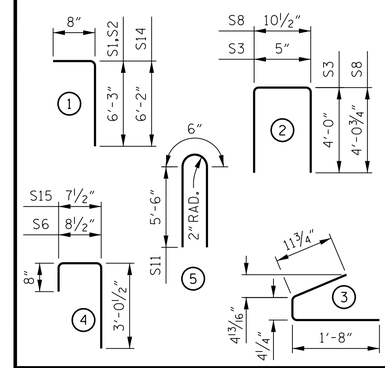
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	120	#4	1	6'-11"	554
S2	52	#5	1	6'-11"	375
S3	14	#4	2	8'- 5"	79
S4	104	#4	3	3'- 0"	208
S6	172	#5	4	4'- 5"	792
✱ S7	30	#5	STR	3'- 8"	115
S8	2	#5	2	9'- 0"	19
S9	48	#5	STR	3'- 3"	163
S10	2	#3	STR	1'-10"	1
S11	8	#5	5	11'- 6"	96
S12	16	#4	STR	8'- 0"	86
S14	88	#4	1	6'-10"	402
S15	88	#5	4	4'- 4"	398

✱ 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	9,000 PSI CONCRETE	0.6'' Ø L.R. STRANDS
GIRDERS	LB.	C.Y.	No.
A1 THRU A4 AND B1 THRU B4	3,288	25.8	42

GIRDERS REQUIRED

LOCATION	NUMBER	LENGTH	TOTAL LENGTH
SPAN A	4	120'-3¼''	481.083'
SPAN B	4	120'-3¼''	481.083'

PROJECT NO. U-2524BC

GUILFORD COUNTY

STATION: 27+40.75 -L-

SHEET 1 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

72'' PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD

ASSEMBLED BY : K. E. LOFTON	DATE : 12-14
CHECKED BY : T. M. HARRIS	DATE : 1-15
DRAWN BY : EEM 2/6/97	REV. 10/1/11 MAA/GM
CHECKED BY : VAP 2/6/97	REV. 6/13 MAA/GM
	REV. 1/15 MAA/TMG

DRAWN BY : K. E. LOFTON	DATE : 12-14
CHECKED BY : T. M. HARRIS	DATE : 1-15
DESIGN ENGINEER : T. M. HARRIS	DATE : 2-15

PLANS PREPARED BY :
PARSONS
5540 Centerview Drive, Suite 217
Raleigh, NC 27606-3386
NC LICENSE No. F-0246
FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

NORTH CAROLINA PROFESSIONAL SEAL 19299 ENGINEER THOMAS M. HARRIS
3/6/2015

REVISIONS							SHEET No.
No.	BY:	DATE:	No.	BY:	DATE:		S01-11
1			3				TOTAL SHEETS
2			4				27

STD. No. PCG8 STR. #1

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