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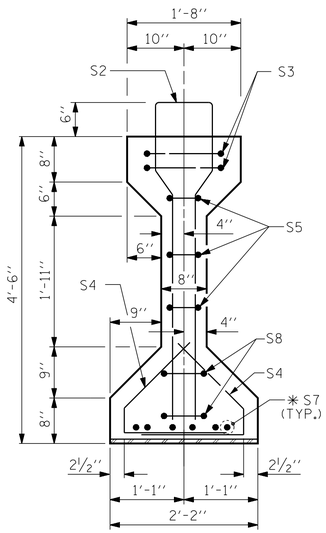
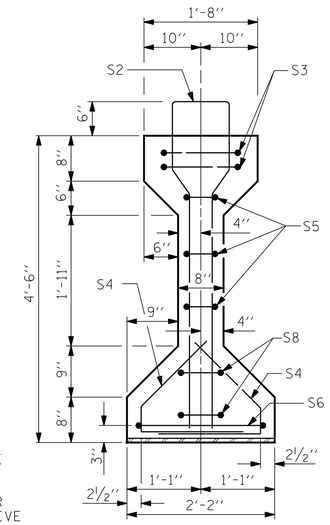
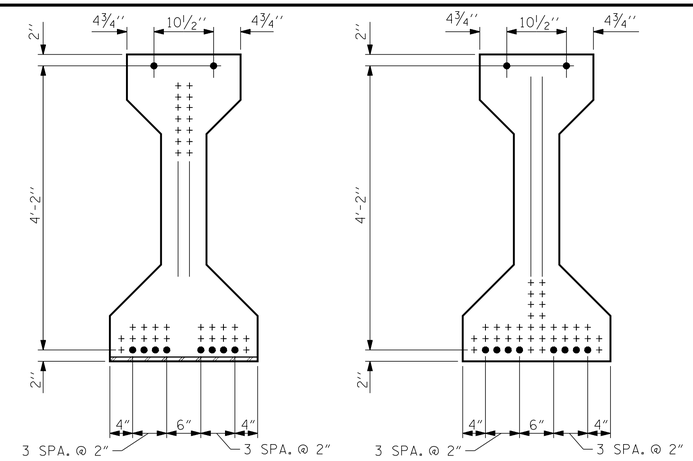


SECTION A-A

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



SECTION B-B



AT END OF GIRDER

AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

● FULLY BONDED STRANDS

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

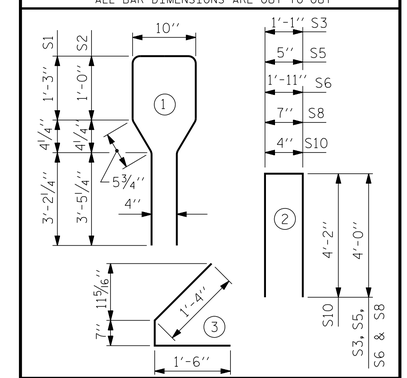
REINFORCING STEEL FOR ONE GIRDER

	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
GDR. C1-C5	S1	41	#4	1	10'-8"	292
GDR. C6-C9	S1	42	#4	1	10'-8"	299
	S2	12	#6	1	10'-8"	192
	S3	4	#4	2	9'-1"	24
	S4	64	#4	3	3'-5"	146
	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

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

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT

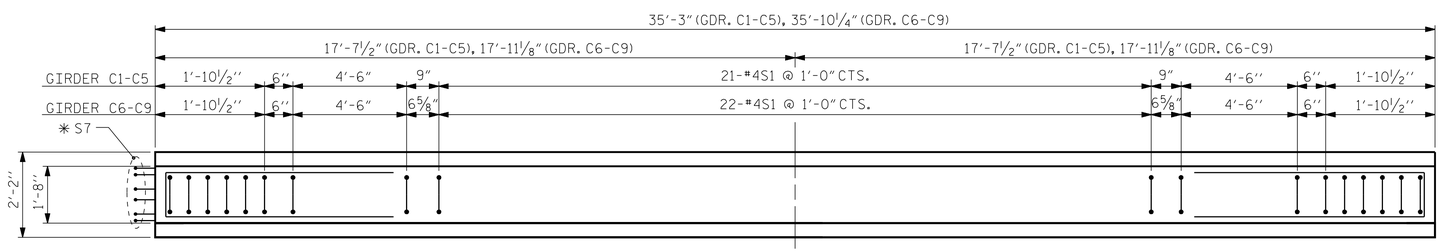


QUANTITIES FOR ONE GIRDER

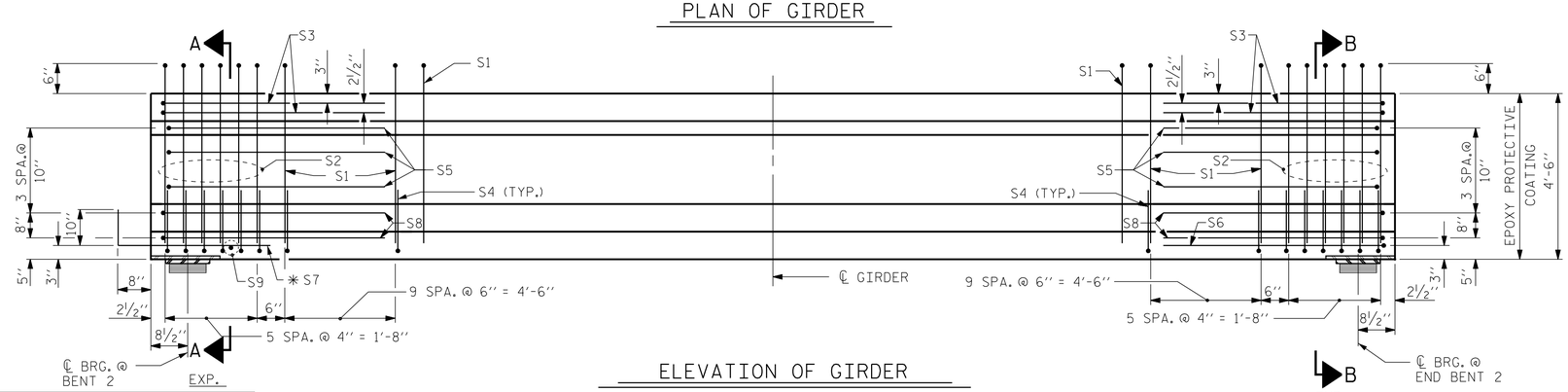
	REINFORCING STEEL LB.	5,000 PSI CONCRETE C.Y.	0.6" Ø L.R. STRANDS No.
GIRDER C1-C5	742	7.2	10
GIRDER C6-C9	749	7.3	10

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5(C1-C5)	35'-3"	176'-3"
4(C6-C9)	35'-10¼"	143'-5"



PLAN OF GIRDER



ELEVATION OF GIRDER

PROJECT NO. B-5119

GUILFORD COUNTY

STATION: 26+31.94 -L - 16+43.93 -Y1-

SHEET 3 OF 5

NORTH CAROLINA PROFESSIONAL SEAL 12186 ENGINEER CECIL L. NARRON

DocuSigned by: Cecil L. Narron C169A3D645024DD... 11/3/2014

Kimley»Horn
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Raleigh, NC 27601-1772
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
SPAN C

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

SHEET NO. S-16

TOTAL SHEETS 77

ASSEMBLED BY : JIK	DATE : 10/14		
CHECKED BY : JCW	DATE : 10/14		
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	

10/31/2014 K:\RDT_Structures_Bridge\NC\011036186_B-5119 I40-85 Bridges\Cad\dgn\B-5119_349_S16.dgn

STD. NO. PCG6