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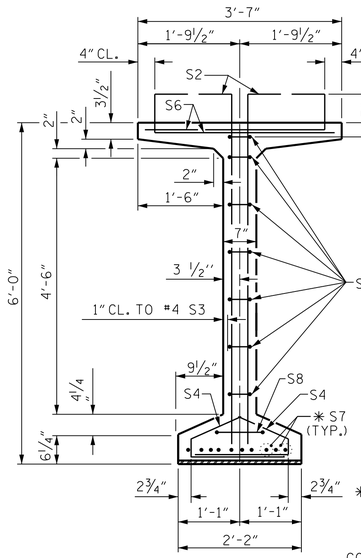
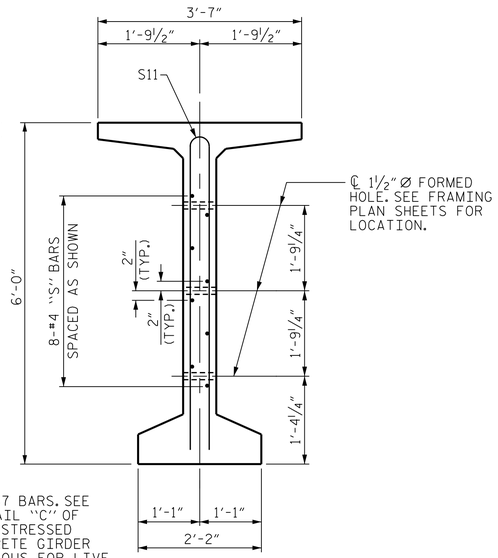


SECTION B-B

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

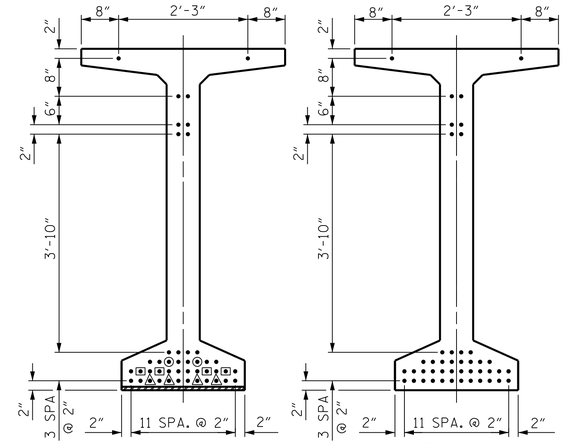


SECTION C-C

(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

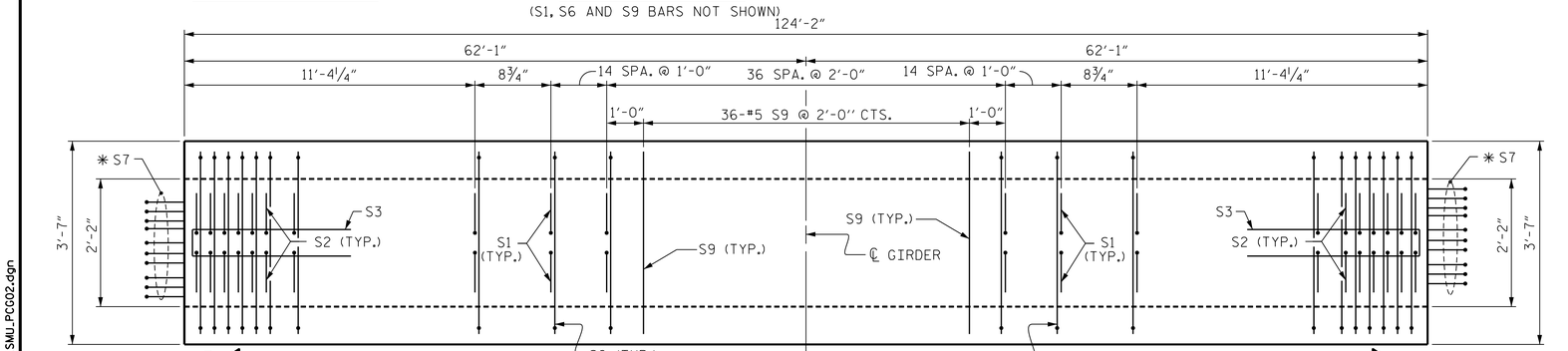
- ● FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 2'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER



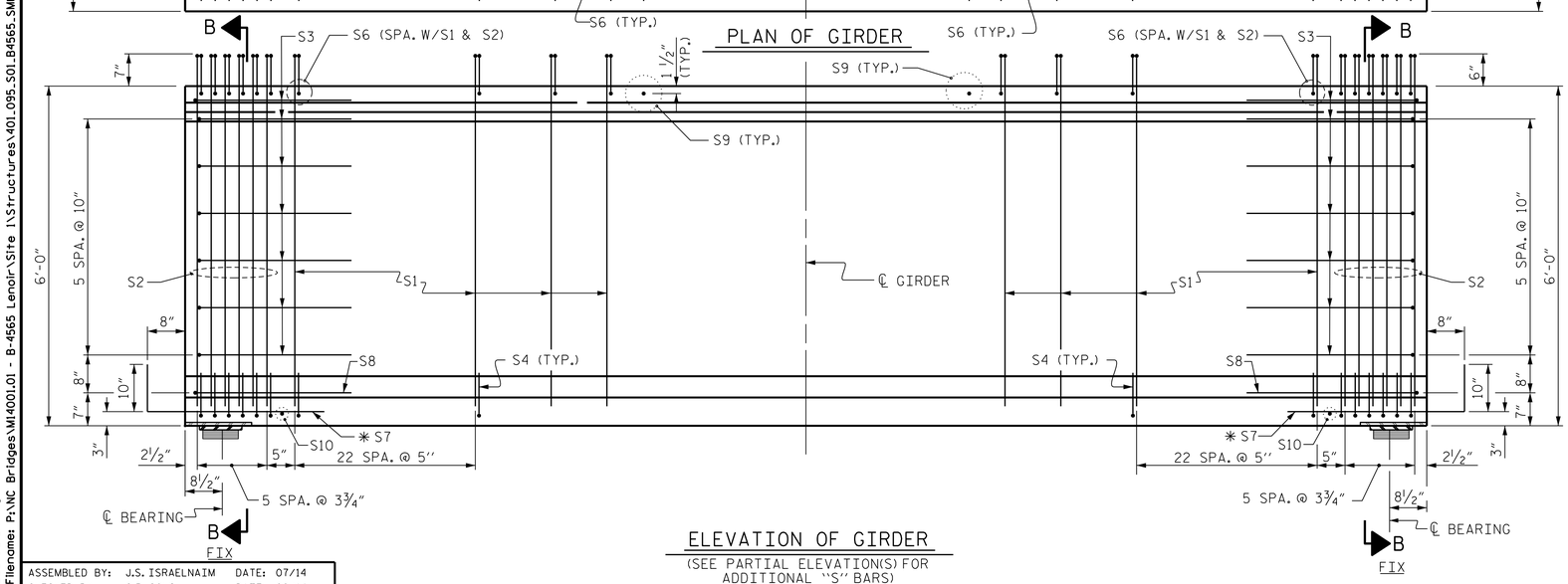
AT END OF GIRDER

AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT



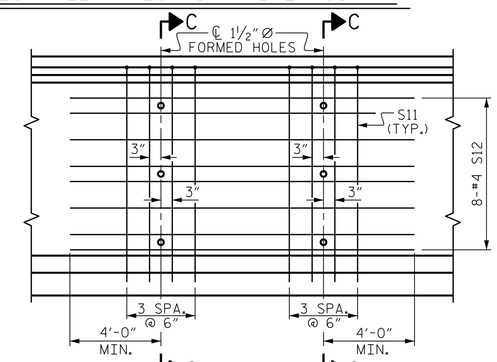
PLAN OF GIRDER



ELEVATION OF GIRDER

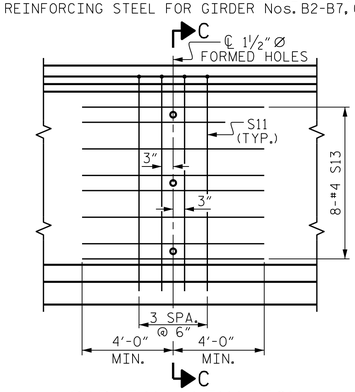
(SEE PARTIAL ELEVATION(S) FOR ADDITIONAL "S" BARS)

FOR 1½" Ø FORMED HOLE LOCATION, SEE "FRAMING PLAN - SPAN A & B" SHEET



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. B2-B7, C2-C7



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. B1 & B8, C1 & C8

0.6" Ø L.R. GRADE 270 STRANDS

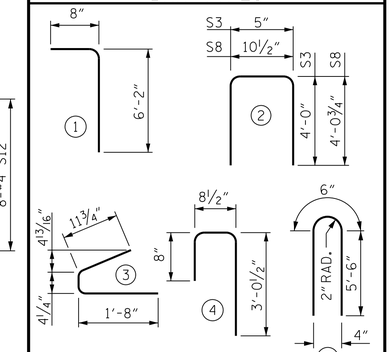
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GDR

	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
	S1	222	#4	1	6'-10"	1,013
	S2	24	#5	1	6'-10"	171
	S3	14	#4	2	8'-5"	79
	S4	116	#4	3	3'-0"	232
	S6	246	#5	4	4'-5"	1,133
	✱ S7	20	#5	STR	3'-8"	76
	S8	2	#5	2	9'-0"	19
	S9	36	#5	STR	3'-3"	122
	S10	2	#3	STR	1'-10"	1
INTERIOR GDR.	S11	16	#5	5	11'-6"	192
EXTERIOR GDR.	S11	8	#5	5	11'-6"	96
INTERIOR GDR.	S12	16	#4	STR	13'-2"	141
EXTERIOR GDR.	S13	16	#4	STR	8'-0"	86

✱ 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.
EXTERIOR GIRDER	3028	26.6	44
INTERIOR GIRDER	3179	26.6	44

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
16	124'-2"	1,986'-8"

PROJECT NO. B-4565

LENOIR COUNTY

STATION: 20+17.50 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

72" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD

SPANS B & C

NORTH CAROLINA PROFESSIONAL SEAL 027799 ENGINEER ALLYSON K. ORR
11/13/2014

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

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

SHEET NO. S-19

TOTAL SHEETS 118

STD. NO. PCG8

ASSEMBLED BY:	J.S. ISRAELNAIM	DATE:	07/14
CHECKED BY :	G.R. COLS	DATE:	08/14
DESIGN ENGINEER OF RECORD:	A.K. ORR	DATE:	10/14
DRAWN BY :	EEM 2/6/97	REV. 5/1/06R	TLA/GM
CHECKED BY :	VAP 2/6/97	REV. 10/1/11	MAA/GM
		REV. 6/13	MAA/GM

11/13/2014
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