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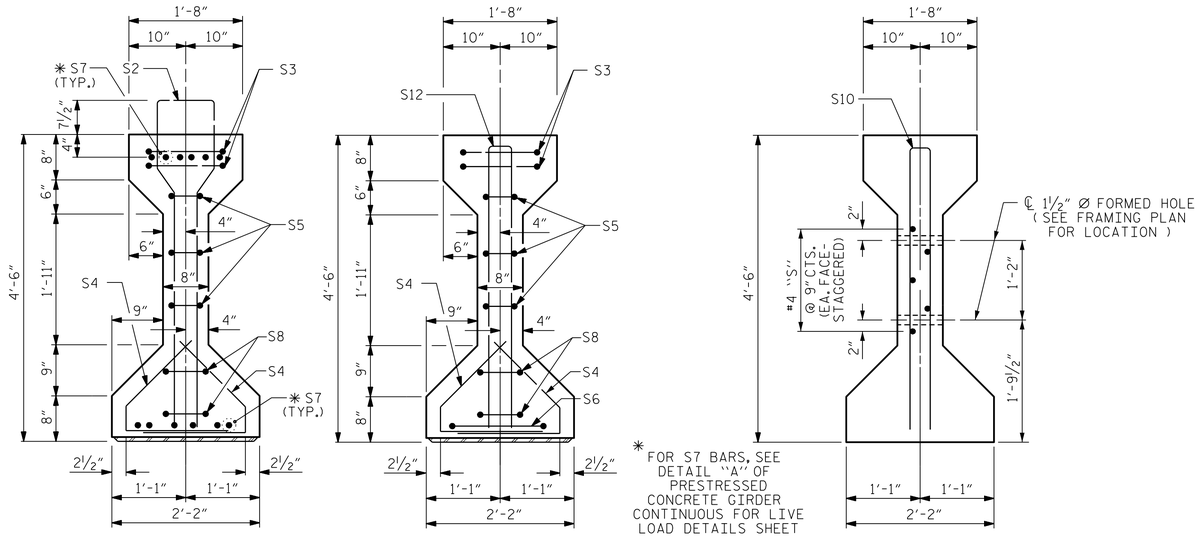
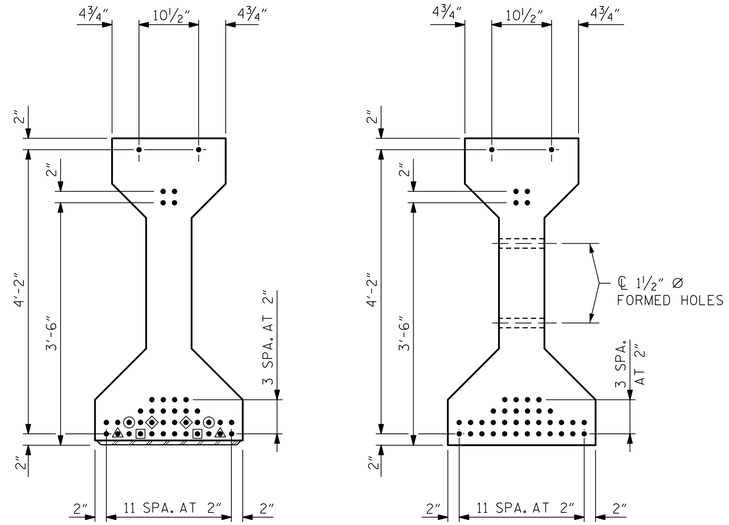


SECTION A-A

SECTION B-B

SECTION C-C

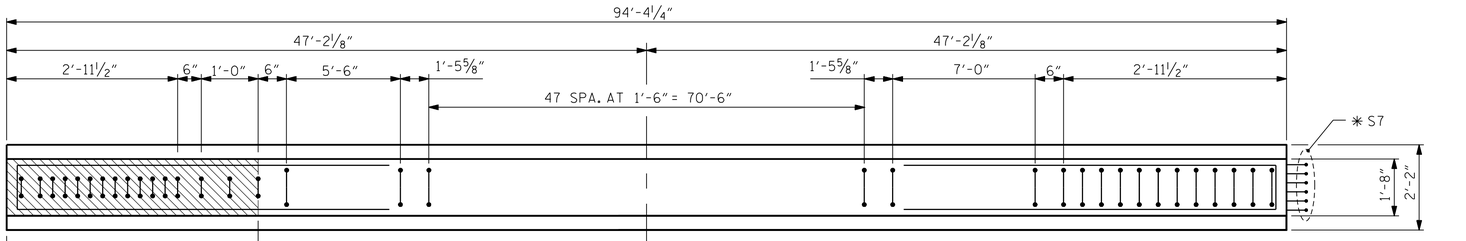
(S1 BARS NOT SHOWN)



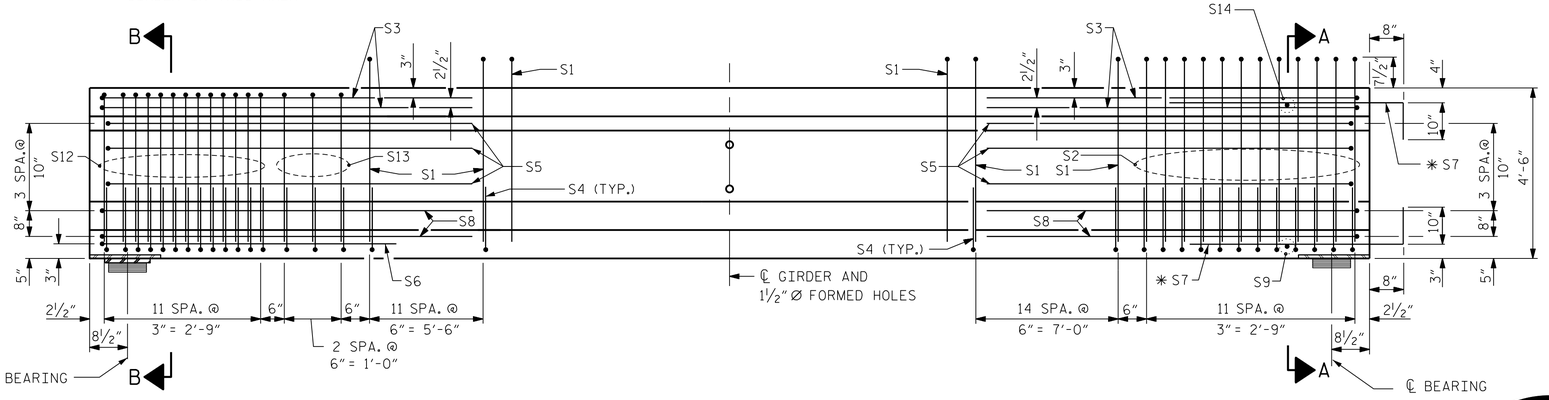
AT END OF GIRDER

AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



FIX (LINK SLAB)

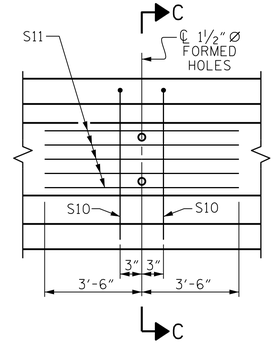
INTEGRAL END BENT

ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

DEBONDING LEGEND

- ● FULLY BONDED STRANDS.
- ▲ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER.
- ▣ STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER.
- ◉ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER.
- ◈ STRANDS DEBONDED FOR 6'-0" FROM END OF GIRDER.



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS.

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

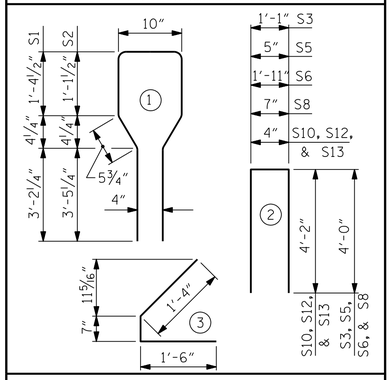
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	75	#4	1	10'-11"	547
S2	12	#6	1	10'-11"	197
S3	4	#4	2	9'-1"	24
S4	108	#4	3	3'-5"	246
S5	6	#4	2	8'-5"	34
S6	1	#4	2	9'-11"	7
✱S7	12	#5	STR	3'-8"	46
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
S12	12	#6	2	8'-8"	156
S13	3	#4	2	8'-8"	17
S14	1	#3	STR	1'-4"	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	7500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
54" PCG GIRDER	1,340	19.1	40

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	94'-4¼"	471.77'

PROJECT NO. R-2233BB

RUTHERFORD COUNTY

STATION: 20+88.94 -Y19-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S3-13
1			3			TOTAL SHEETS
2			4			34

STR. #3 STD. NO. PCG6

DRAWN BY : ELR 8/91	REV. 10/1/11	MAA/GM
CHECKED BY : GRP 8/91	REV. 1/15	MAA/TMG
	REV. 12/17	MAA/THC
DESIGNED BY: J. BORUTA	DATE : APR 2019	
DRAWN BY: K. WHITE	DATE : MAR 2019	
CHECKED BY: B. LOFLIN	DATE : JUNE 2019	
DESIGN ENGINEER OF RECORD: J. DOUGHTY	DATE : NOV 2019	

MODJESKI and MASTERS
Experience great bridges.
333 FAYETTEVILLE STREET, SUITE 500
RALEIGH, NC 27601
NC LICENSE NO. C-2979

NORTH CAROLINA PROFESSIONAL SEAL 032967 ENGINEER JASON R. DOUGHTY
4/23/2020
DocuSigned by: Jason R Doughty 5F73FA2DEA974E8...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

4/22/2020
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