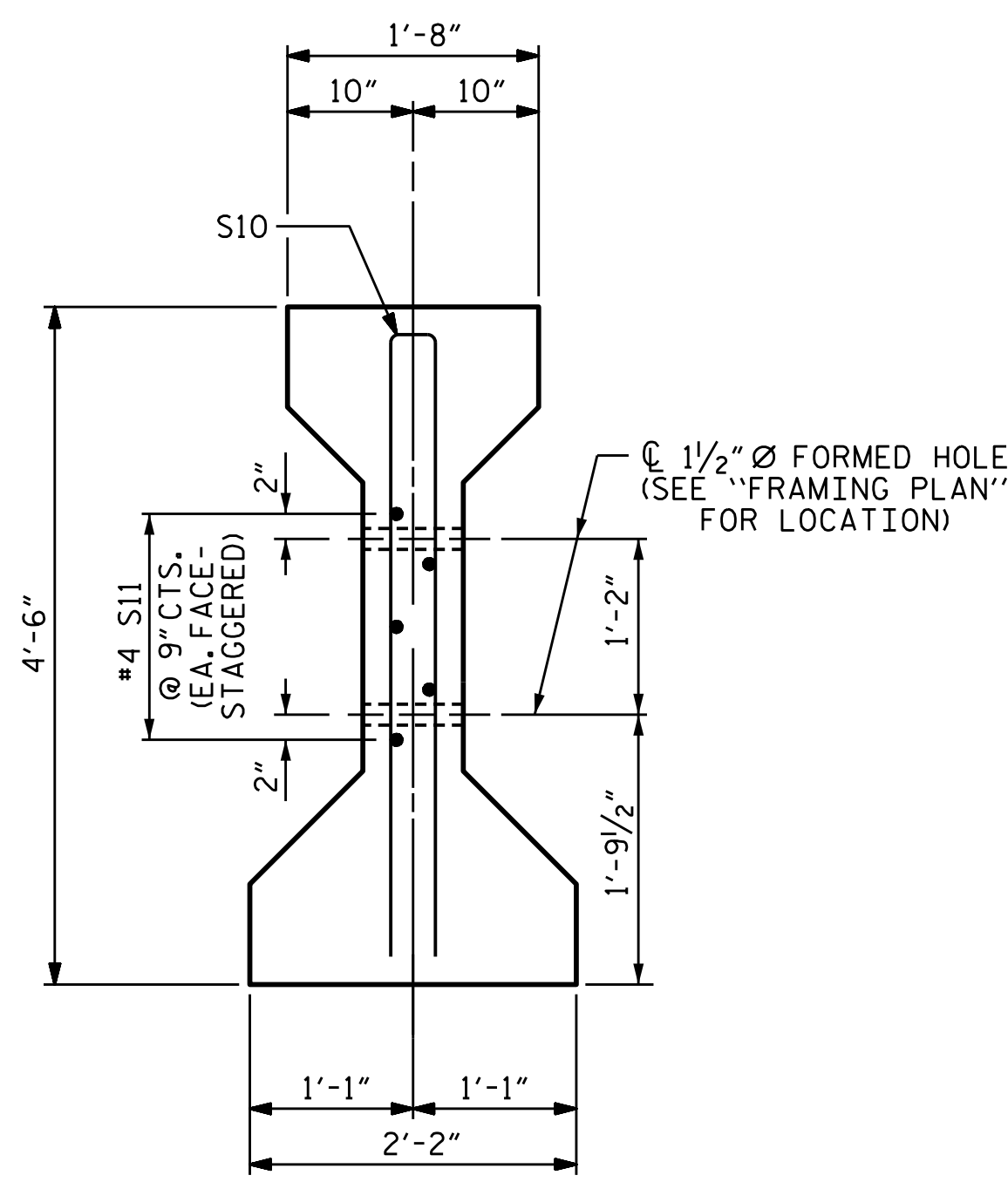


SECTION A-A

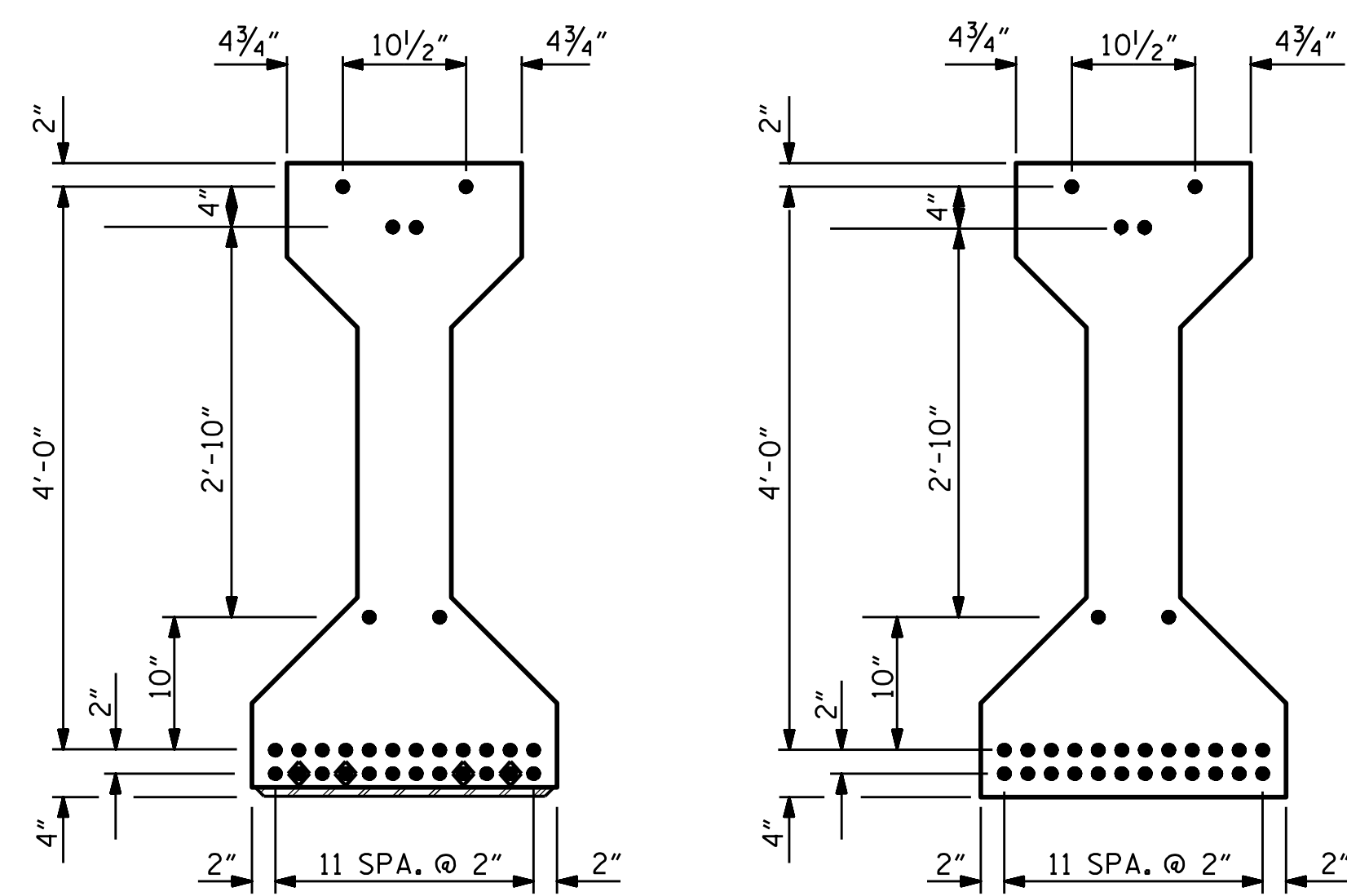
SECTION B-B

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



SECTION C-C

(S1 BARS NOT SHOWN)

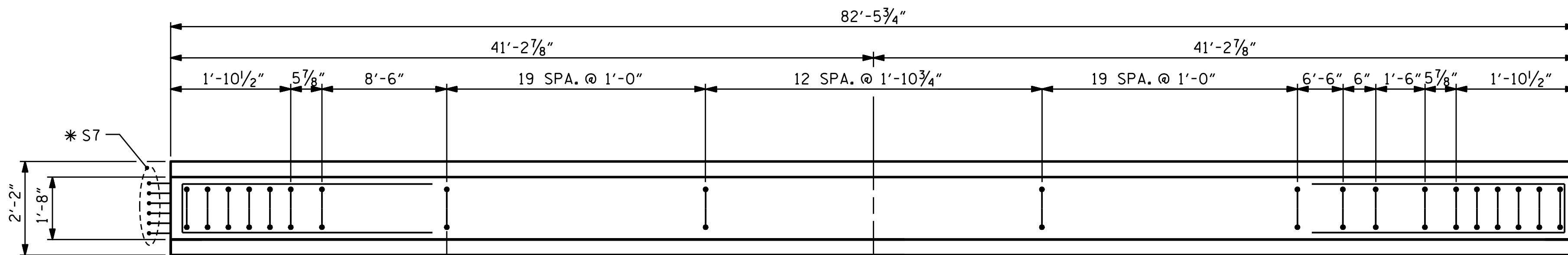


AT END OF GIRDER

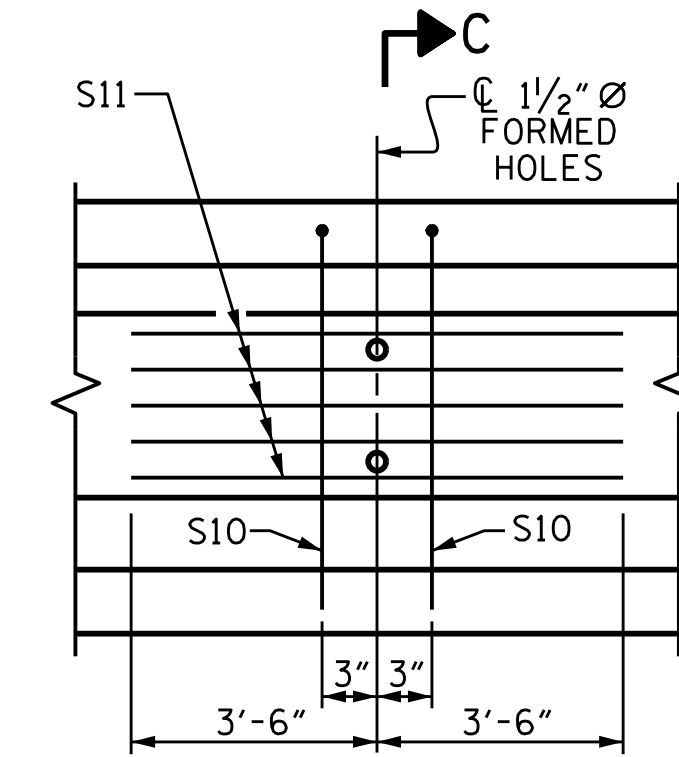
AT C OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

- FULLY BONDED STRANDS
- ◆ STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER

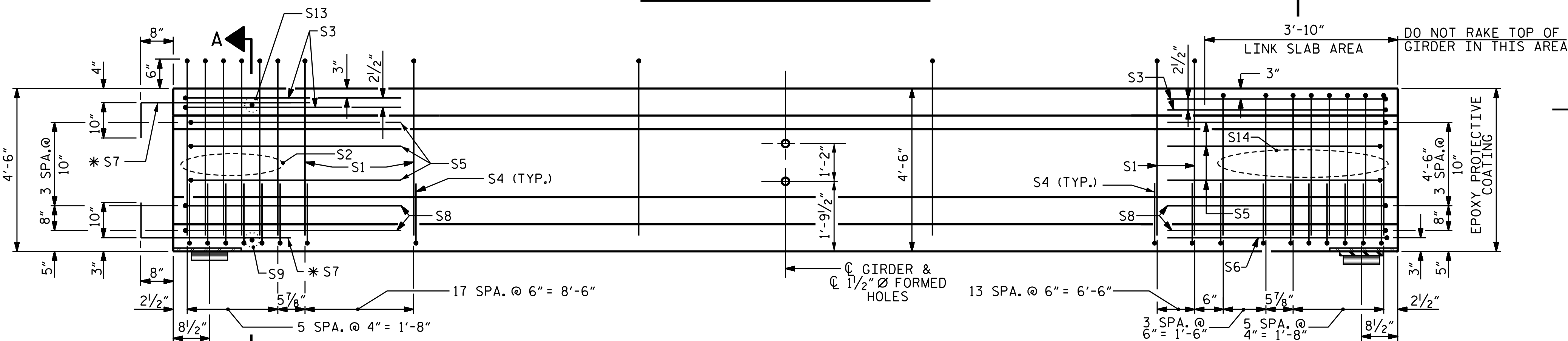


PLAN OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM
REINFORCING STEEL FOR SPAN A GIRDERS.



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)

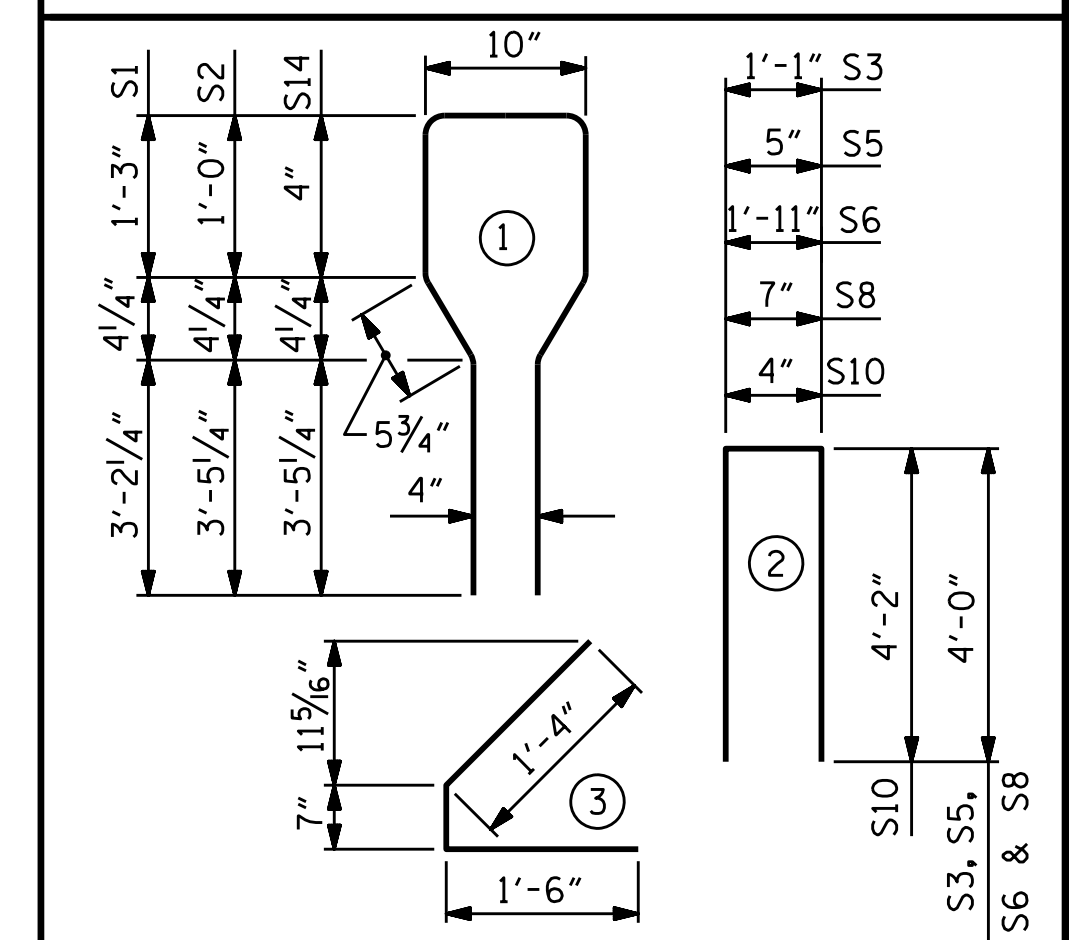
0.6" Ø L. R. GRADE 270 STRANDS

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	#4	1	10'-8"	577	
S2	#6	1	10'-8"	96	
S3	#4	2	9'-1"	24	
S4	#4	3	3'-5"	219	
S5	#4	2	8'-5"	34	
S6	#4	2	9'-11"	7	
*S7	#5	STR	3'-8"	46	
S8	#4	2	8'-7"	23	
S9	#3	STR	1'-10"	1	
S10	#5	2	8'-8"	18	
S11	#4	STR	7'-0"	23	
S13	#3	STR	1'-4"	1	
S14	#6	1	9'-4"	140	

* 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	6,500 PSI CONCRETE	0.6" Ø L. R. STRANDS
LBS.	C.Y.	No.
1,209	16.7	30

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	82'-5 3/4"	329'-11"

PROJECT NO. BR-0051

YADKIN COUNTY

STATION: 18+34.78-L-

SHEET 1 OF 2

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



DocuSign by
Amber M. Lee
04/25/2022

ASSEMBLED BY : M. G. SHAIKH DATE : 02-2020
CHECKED BY : H.A. LOCKLEAR DATE : 03-2020
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

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-11
1			3			TOTAL SHEETS
2			4			32