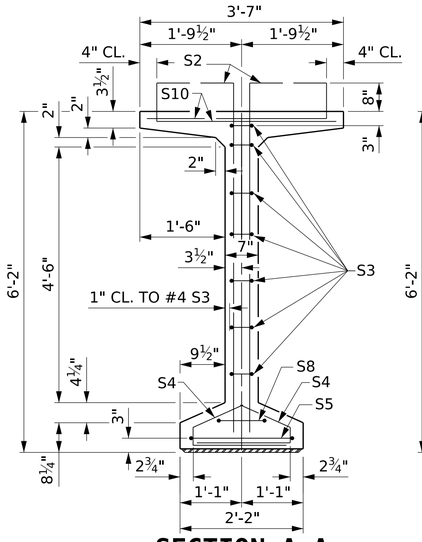
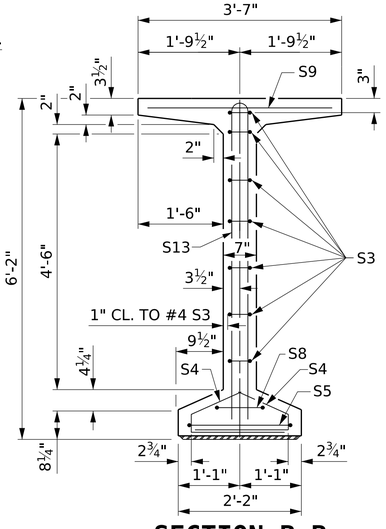
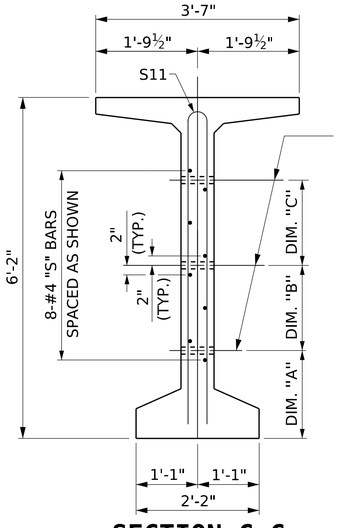


SECTION A-A



SECTION B-B

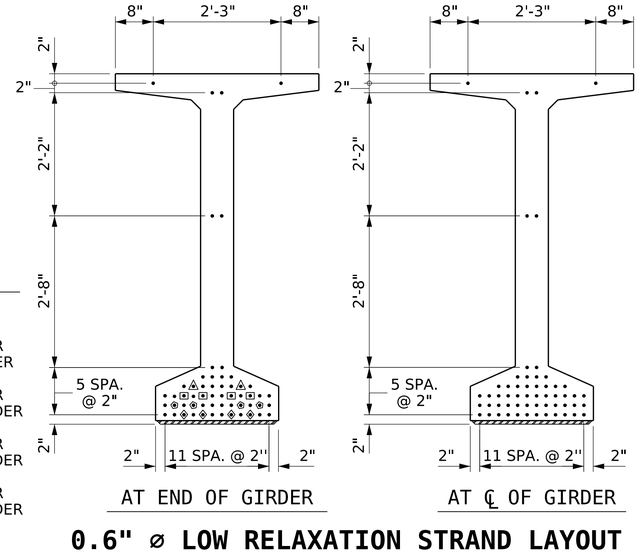


SECTION C-C

(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 10'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 14'-0" FROM END OF GIRDER



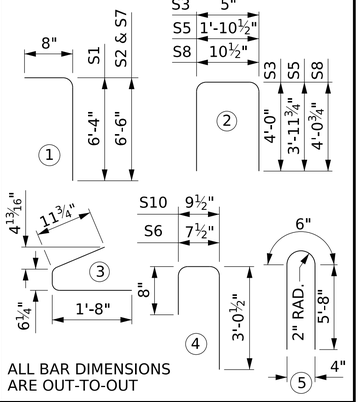
0.6" ∅ LOW RELAXATION STRAND LAYOUT

0.6"∅ 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	180	#4	1	7'-0"	842
S2	20	#6	1	7'-2"	215
S3	14	#4	2	8'-5"	79
S4	92	#4	3	3'-2"	195
S5	2	#5	2	9'-10"	21
S6	180	#5	4	4'-4"	814
S7	38	#4	1	7'-2"	182
S8	2	#5	2	9'-0"	19
S9	70	#5	STR	3'-3"	237
S10	58	#5	4	4'-6"	272
S11	8	#5	5	11'-10"	99
S12	16	#4	STR	8'-0"	86
S13	10	#6	5	11'-10"	178
S14	7	#4	5	11'-10"	55

BAR TYPES



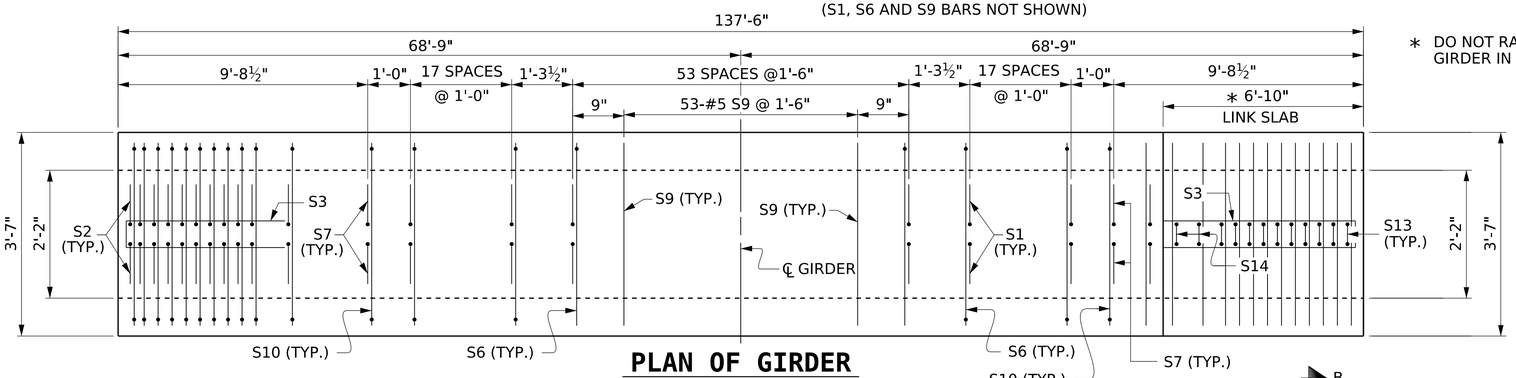
ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	9,000 PSI CONCRETE	0.6" ∅ L.R. STRANDS
	LB.	C.Y.	No.
	3,294	31.3	56

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
6 (SPAN F)	137'-6"	825.00'
6 (SPAN G)	137'-6"	825.00'
6 (SPAN H)	137'-6"	825.00'



PLAN OF GIRDER

∗ DO NOT RAKE TOP OF THE GIRDER IN THIS AREA.

PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS

ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)
(SPAN G SHOWN, SPANS F & H SIMILAR BY ROTATION)

PROJECT NO. **R-34308**

BURKE & CALDWELL COUNTY

STATION **34+52.50 -L-**

SHEET 7 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE 74" PRESTRESSED CONCRETE MODIFIED BULB TEE SPANS F,G,& H

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029360 RYAN D. FISHER
Digitally signed by Ryan Fisher
47A2F06066D644A...
7/8/2025

DRAWN BY : J. MYA DATE : 09/2023
CHECKED BY : R. FISHER DATE : 03/2024
DESIGN ENGINEER OF RECORD: DATE :

GANNETT FLEMING
One Glenwood Avenue Suite 900 Raleigh,NC 27603 919-420-7660 NC Lic.No. F-0270

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-21
1			3			TOTAL SHEETS
2			4			61