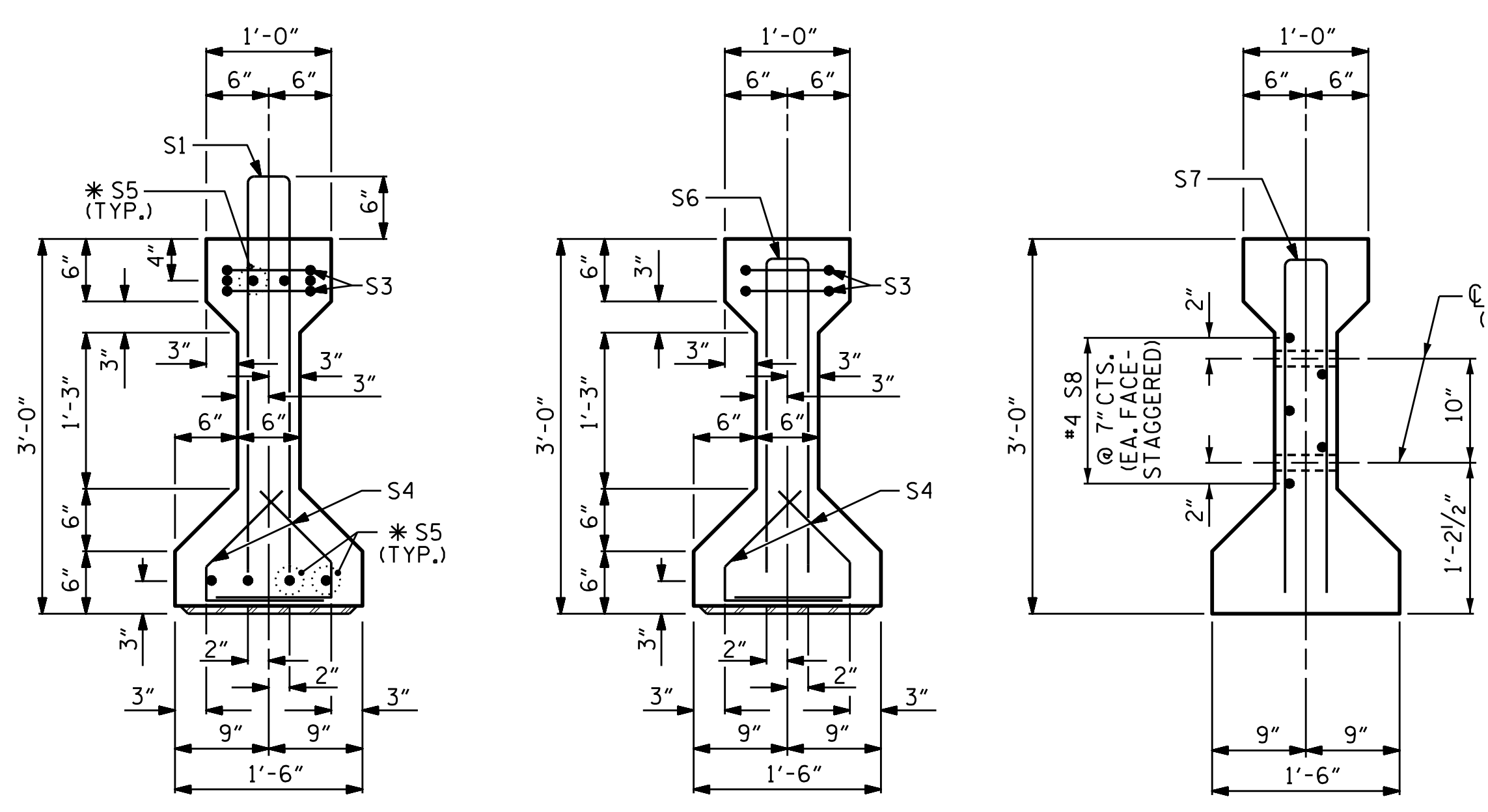


0.6" Ø LOW RELAXATION STRAND LAYOUT

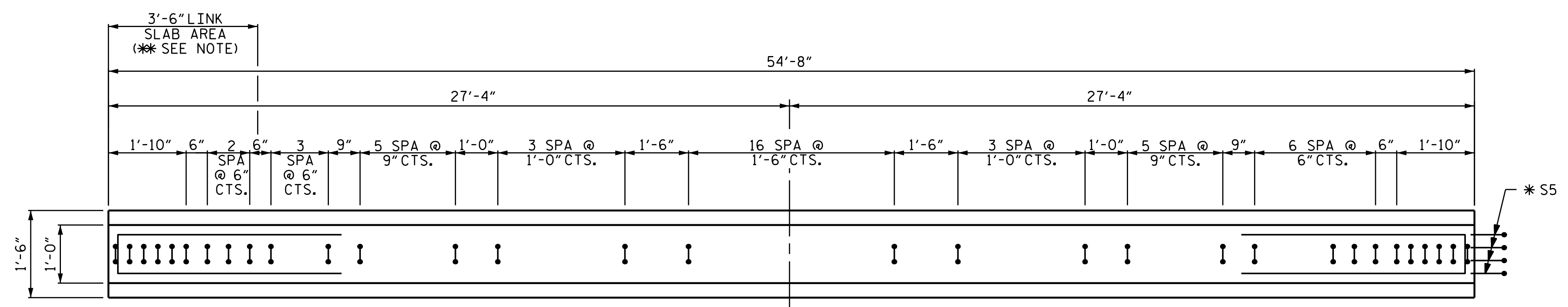
● STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER



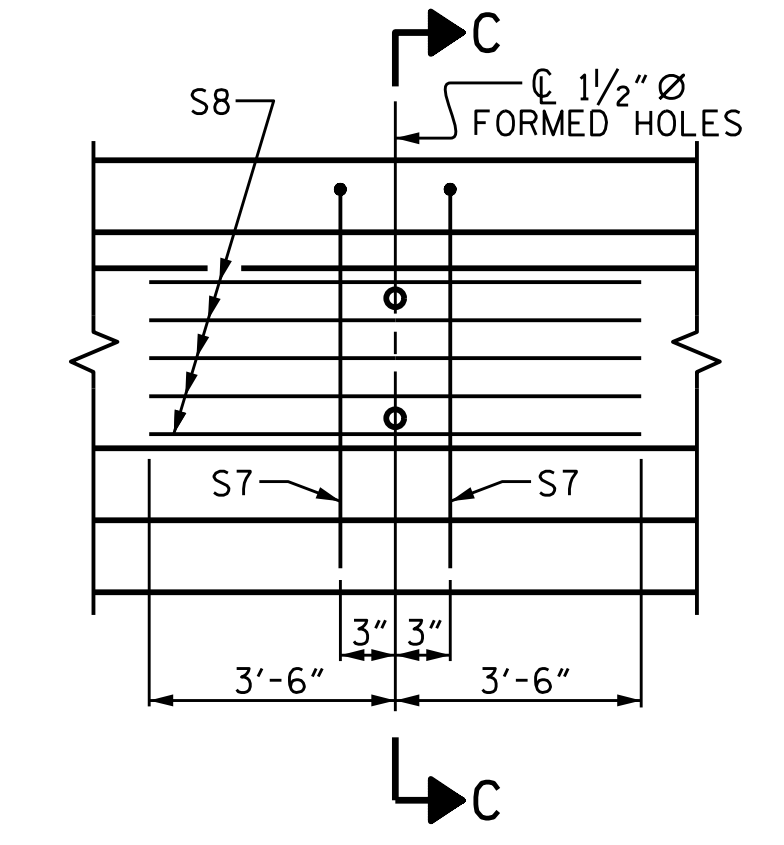
SECTION A-A

SECTION B-B

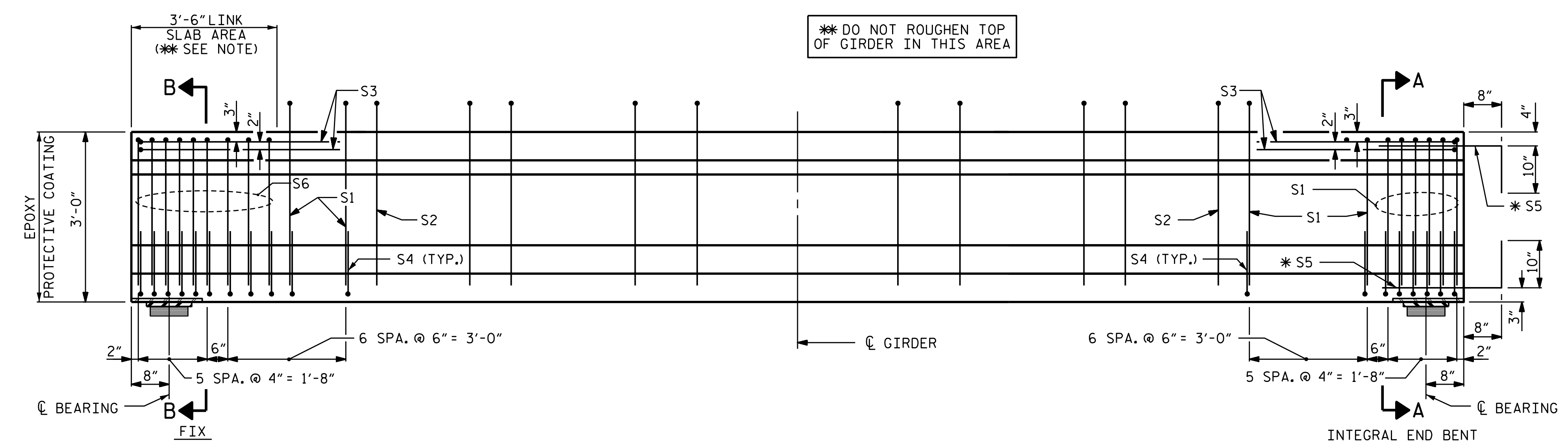
SECTION C-C  
(S2 BARS NOT SHOWN)



\*\* DO NOT ROUGHEN TOP OF GIRDER IN THIS AREA



PARTIAL ELEVATION  
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL.



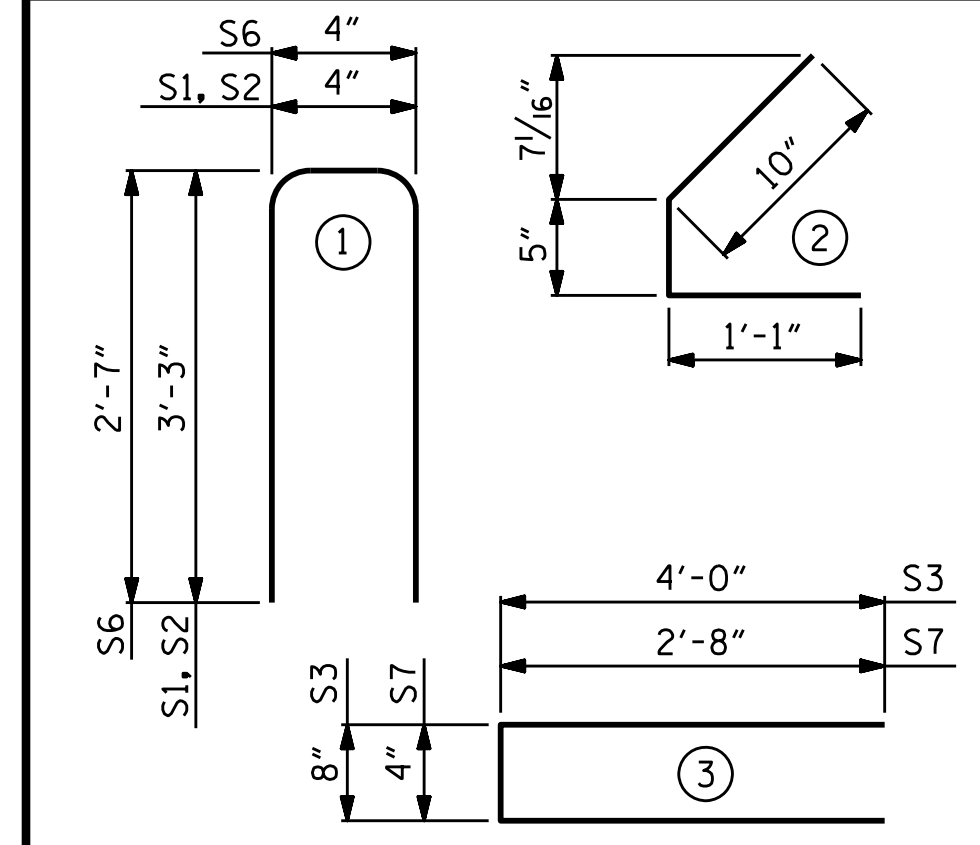
INTEGRAL END BENT

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	17	#5	1	6'-10"	121
S2	37	#4	1	6'-10"	169
S3	4	#4	3	8'-8"	23
S4	52	#4	2	2'-4"	81
* S5	8	#5	STR	3'-8"	31
S6	9	#5	1	5'-6"	52
S7	2	#5	3	5'-8"	12
S8	5	#4	STR	7'-0"	23

\* NOTE: S5 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			
GIRDERS 1-5	REINFORCING STEEL	7500 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
	512	5.2	22

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
5	54'-8"	273'-4"

PROJECT NO. B-4414  
BEAUFORT COUNTY  
STATION: 24+78.90 -L-

SHEET 3 OF 5

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS  
706 HILLSBOROUGH STREET  
SUITE 200  
RALEIGH, NC 27603  
PH (919) 773-8887  
CORP. LICENSE NO.: C-0275

Professional Engineer Seal: Marshall G. Check Jr., 2/8/2021

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

REVISIONS						SHEET NO. S-13
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 33
2			4			

DRAWN BY: STM	DATE: 05/19
CHECKED BY: MGC	DATE: 11/19
DESIGN ENGINEER OF RECORD: TBE	DATE: 03/20
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