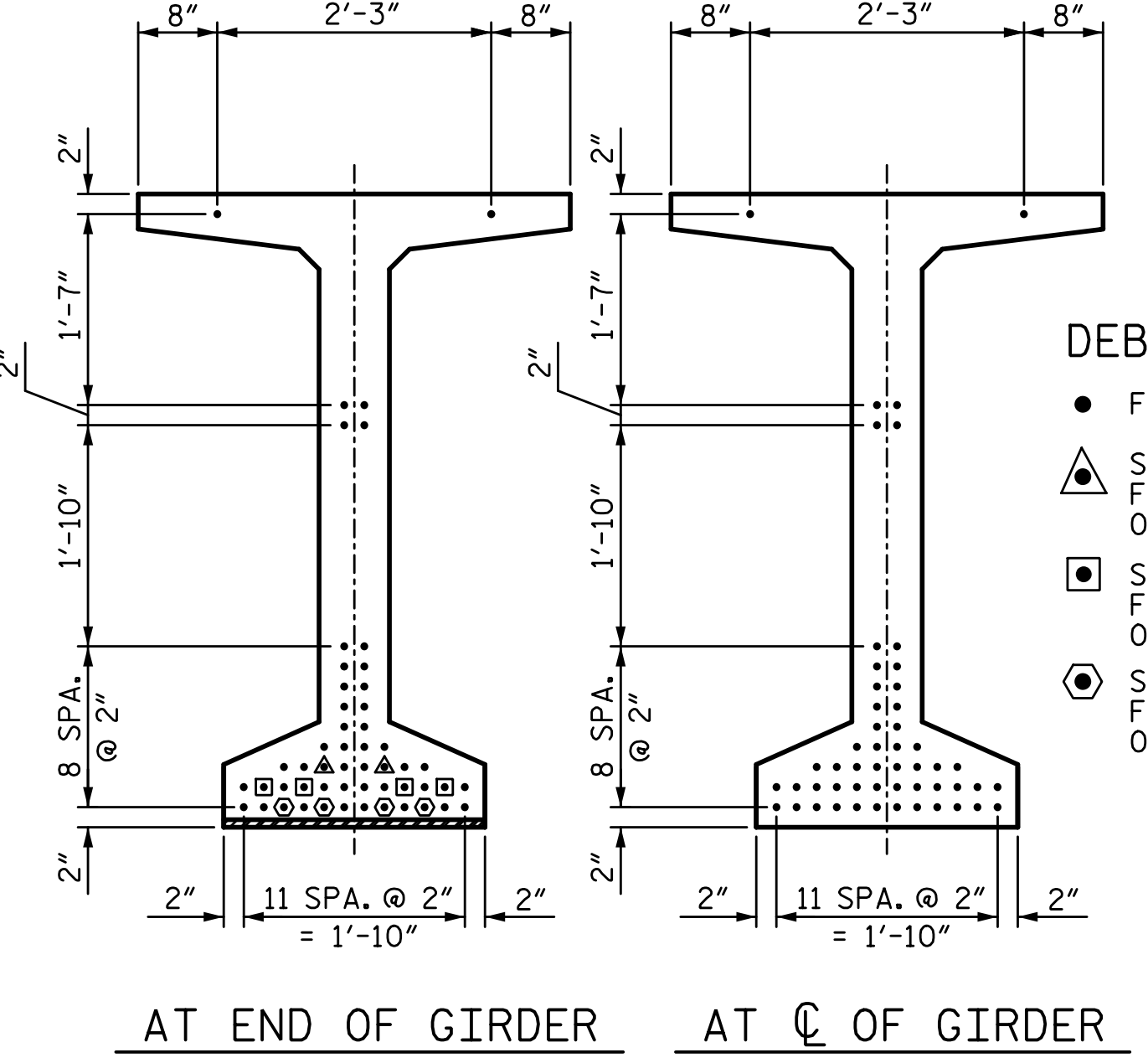
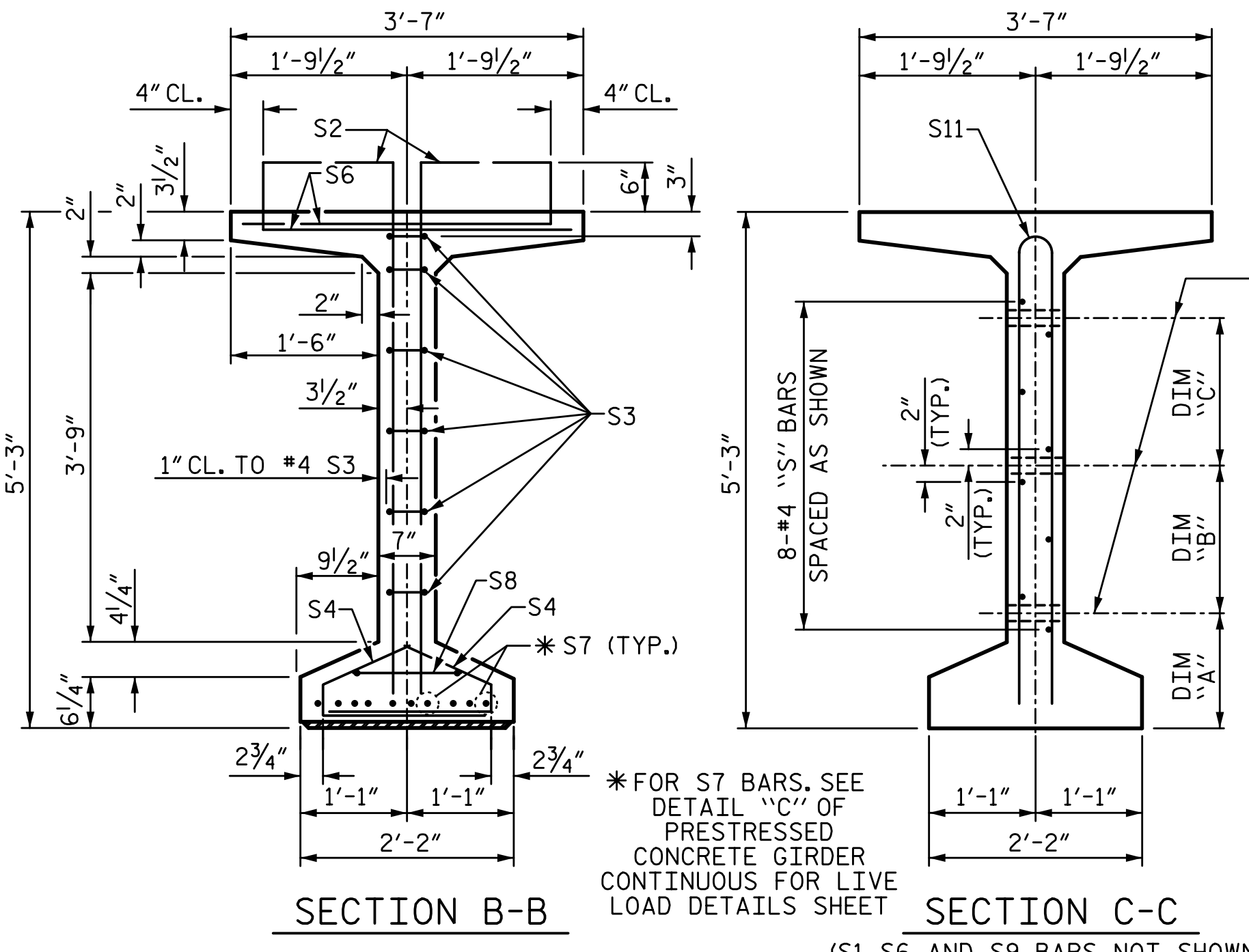
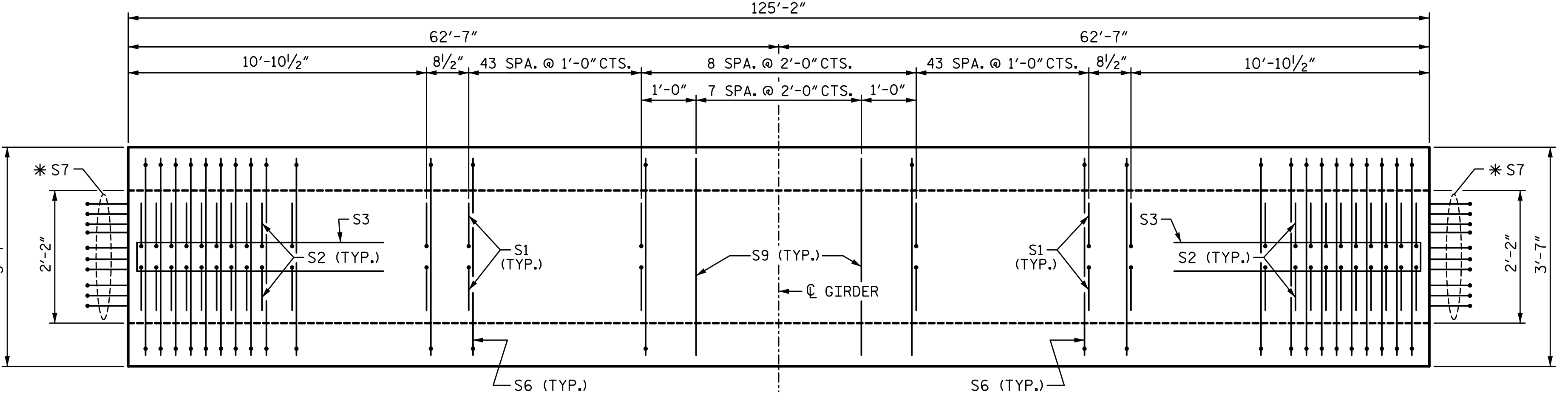


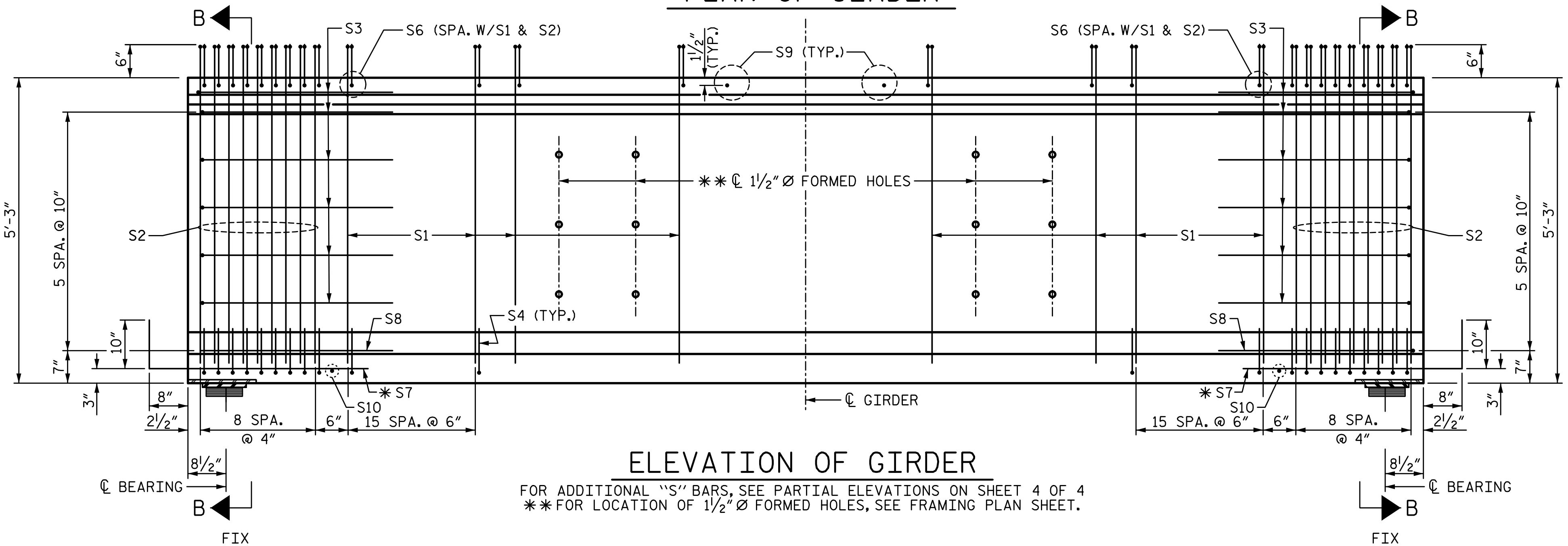
11/21/2022 10:18:41 AM P:\Rateigh\Projects\2018\Division 13 (SEA)\B-5869 (Burke 99)\Structures\Drawings\2\Final\2\B5869_SMU_G_110099(2).dgn



0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



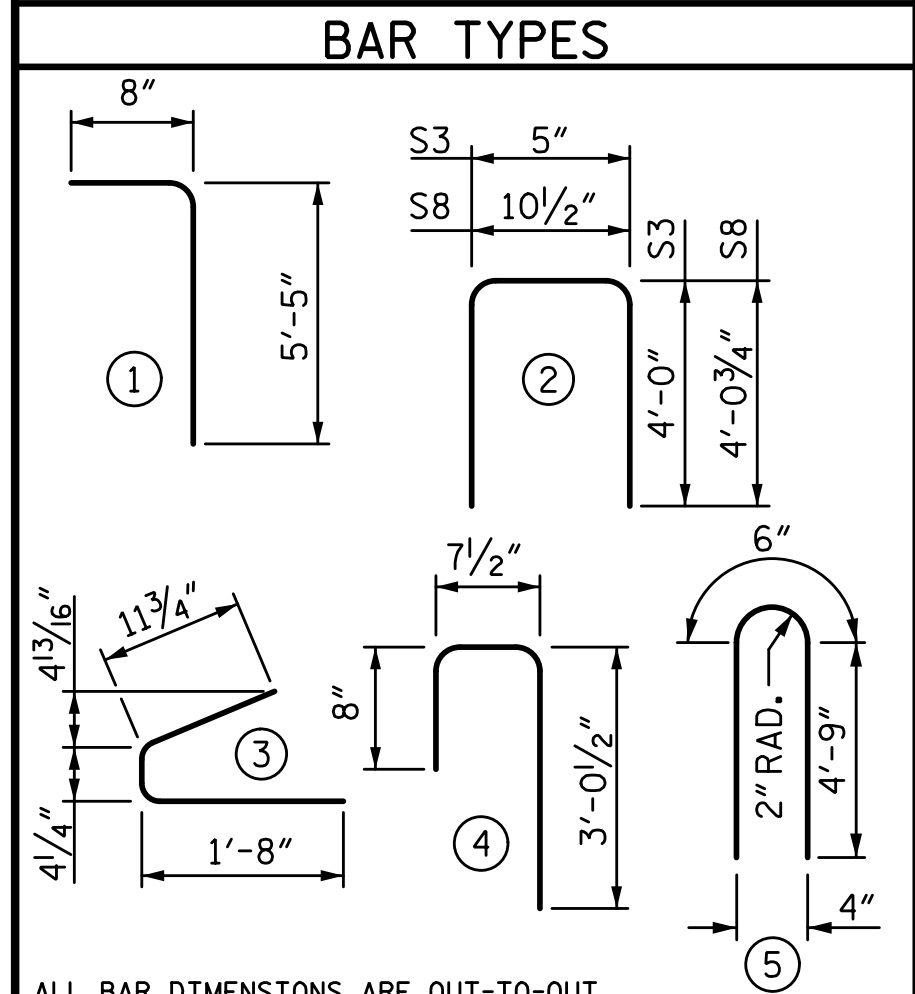
ELEVATION OF GIRDER

FOR ADDITIONAL "S" BARS, SEE PARTIAL ELEVATIONS ON SHEET 4 OF 4
 ** FOR LOCATION OF 1/2" Ø FORMED HOLES, SEE FRAMING PLAN SHEET.

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	NO.	SIZE	TYPE	LENGTH WEIGHT
S1	254	#4	1	6'-1" 1,032
S2	36	#5	1	6'-1" 228
S3	12	#4	2	8'-5" 67
S4	100	#4	3	3'-0" 200
S6	290	#5	4	4'-4" 1,311
*S7	20	#5	STR	3'-8" 76
S8	2	#5	2	9'-0" 19
S9	8	#5	STR	3'-3" 27
S10	2	#3	STR	1'-10" 1
BG1, BG4, BG5, BG10	S11	8	#5	5 10'-0" 83
BG2, BG3, BG6, BG7, BG8, BG9	S11	16	#5	5 10'-0" 167
BG1, BG4, BG5, BG10	S12	16	#4	STR 8'-0" 86
BG2, BG3, BG6, BG7, BG8, BG9	S13	16	#4	STR 21'-2" 226

* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



ALL BAR DIMENSIONS ARE OUT-TO-OUT

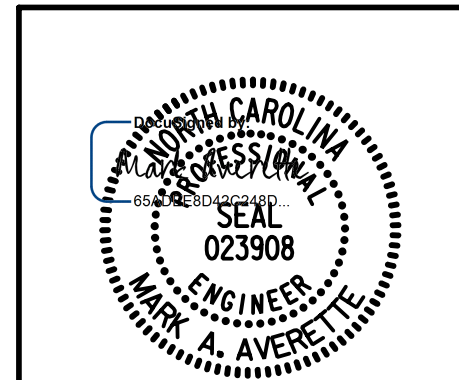
QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	9500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
BG1, BG4, BG5, BG10	3130	24.8	52
BG2, BG3, BG6, BG7, BG8, BG9	3354	24.8	52

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
10	125'-2"	1251.67'

PROJECT NO. B-5869
 BURKE COUNTY
 STATION: 21+62.39 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 63" PRESTRESSED CONCRETE
 MODIFIED BULB TEE
 CONTINUOUS FOR LIVE LOAD
 SPAN B



LICENSURE NO. C-4434

11/21/2022 | 7:43 AM

DRAWN BY: S.D. COOPER DATE: 3-2022
 CHECKED BY: M. AVERETTE DATE: 3-2022
 DESIGN ENGINEER OF RECORD: M. AVERETTE DATE: 3-2022

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

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

TOTAL SHEETS 72