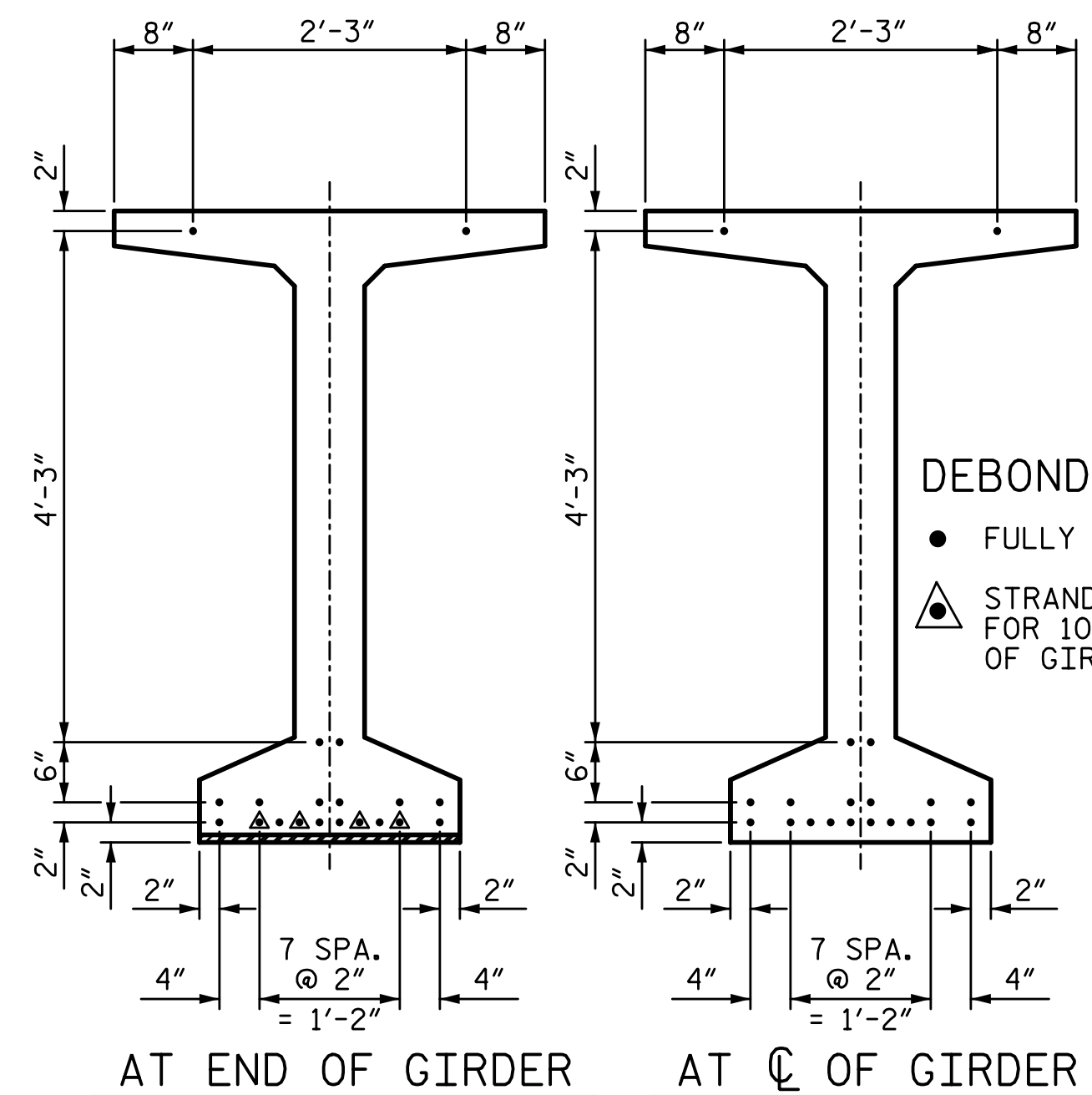
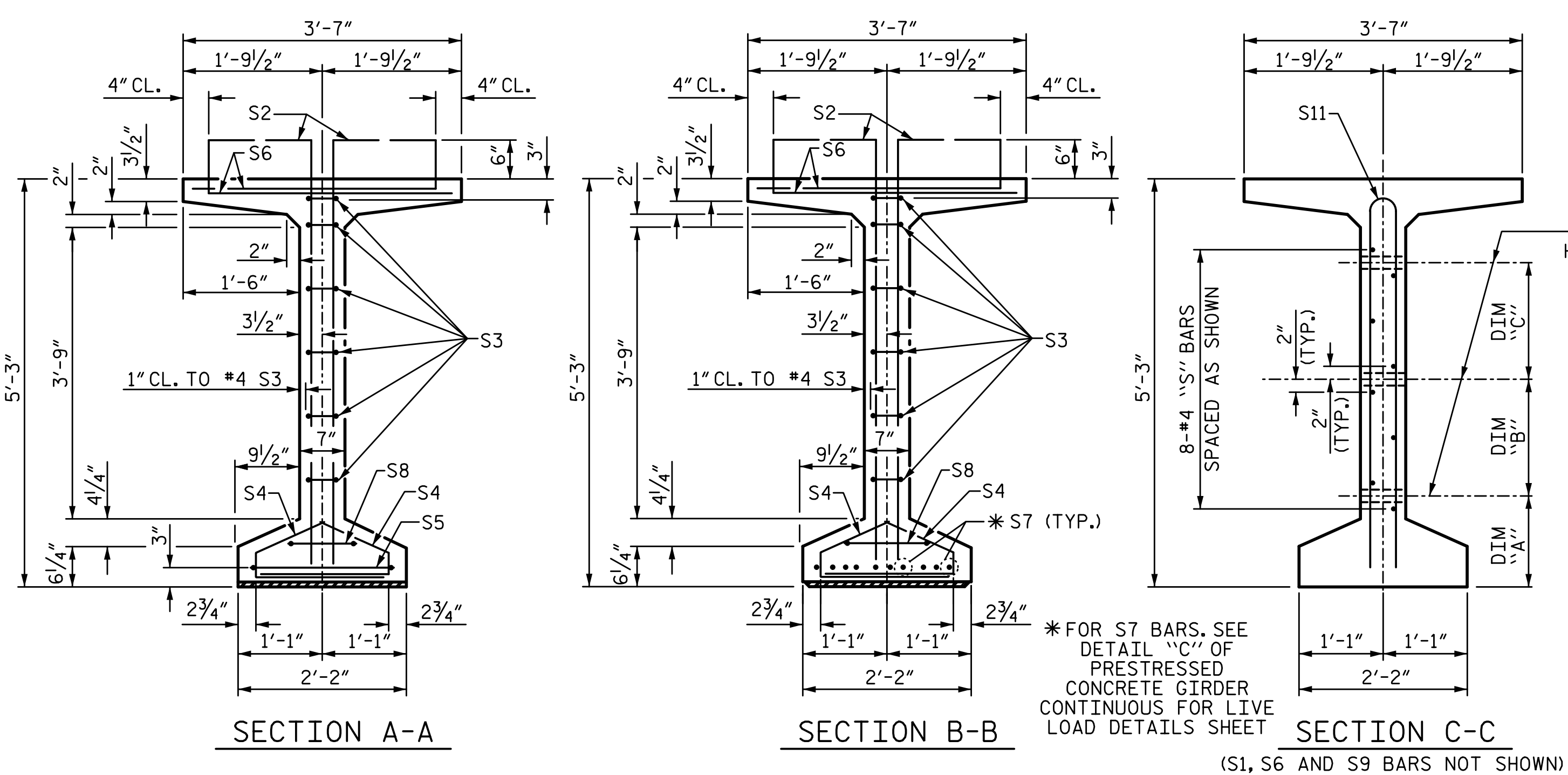


11/21/2022 10:18:42 AM P:\Raleigh\Projects\2018\Division 13 (SEA)\B-5869 (Burke 99)\Structures\Drawings\Final\21\B5869_SMJ_G_110099(2).dgn



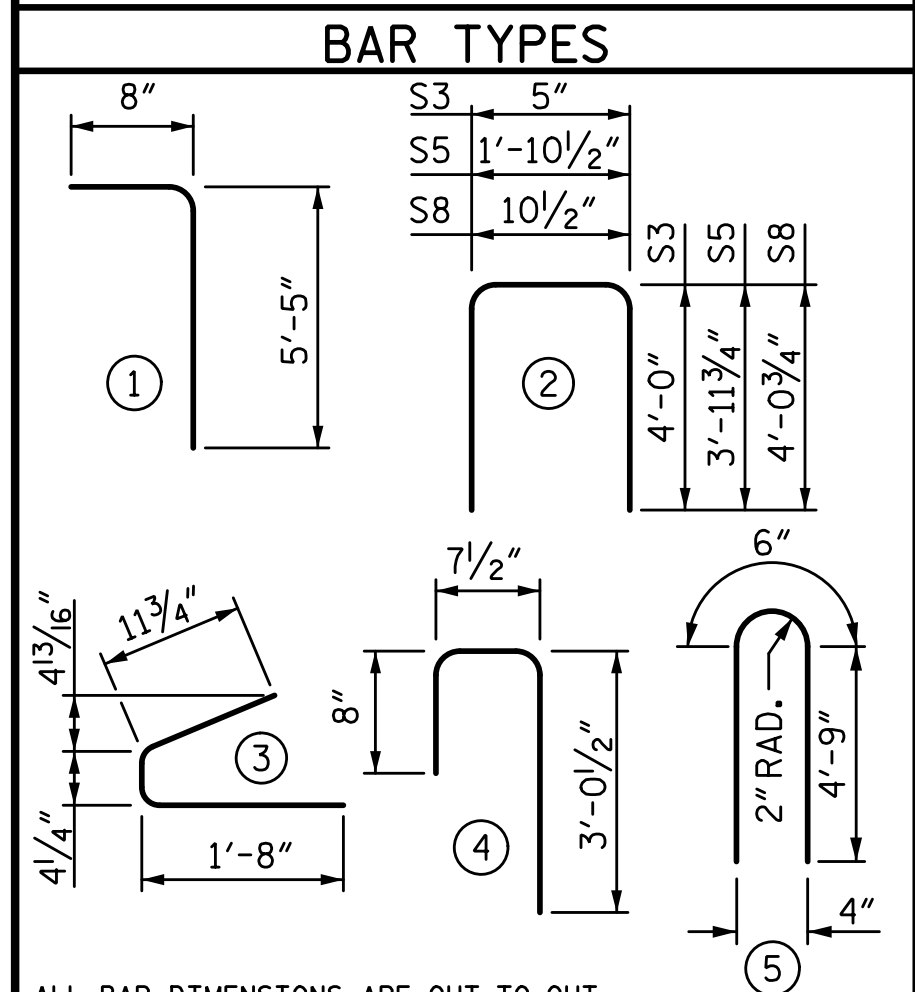
0.6" Ø LOW RELAXATION STRAND LAYOUT

CG1,CG4,CG5,CG10	S11	4	#5	5	10'-0"	42
CG2,CG3,CG6,CG7,CG8,CG9	S11	8	#5	5	10'-0"	83
CG1,CG4,CG5,CG10	S12	8	#4	STR	8'-0"	43
CG2,CG3,CG6,CG7,CG8,CG9	S13	8	#4	STR	21'-2"	113

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

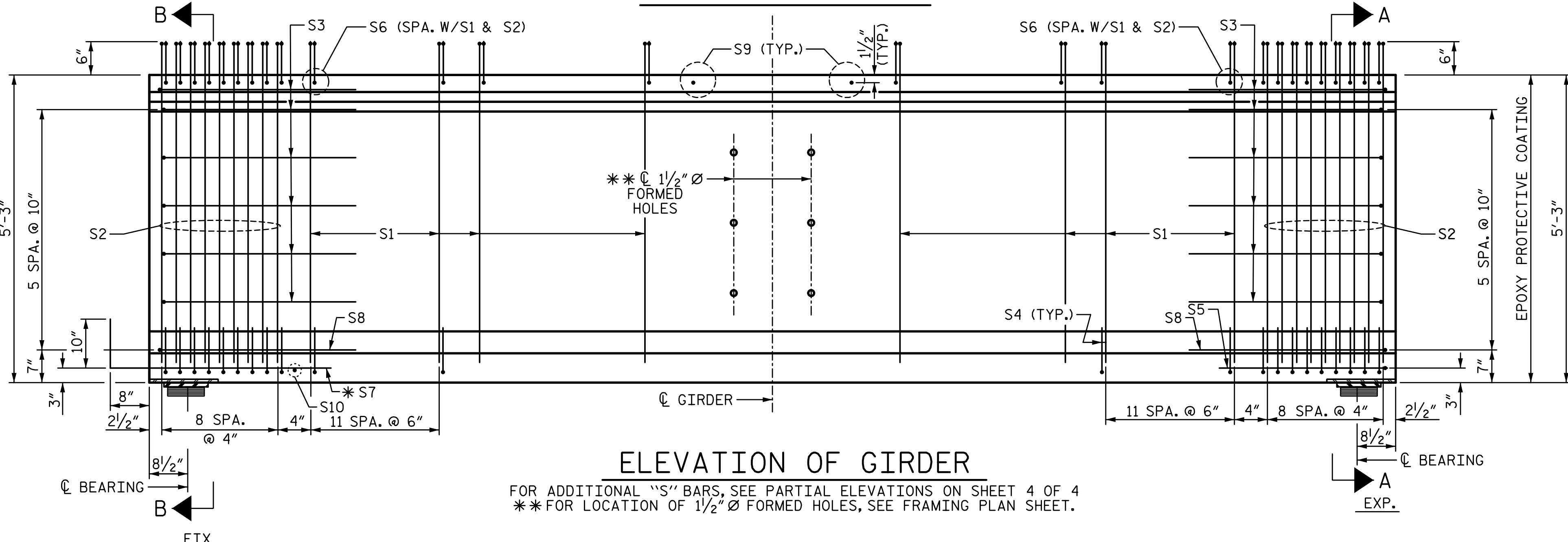
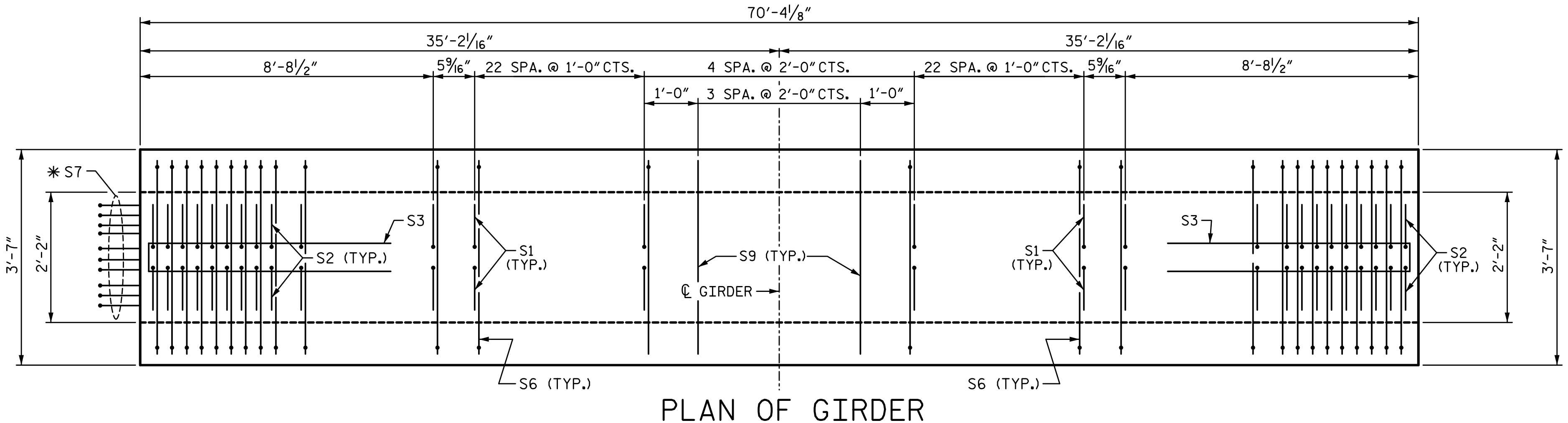
REINFORCING STEEL FOR ONE GDR					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
S1	146	#4	1	6'-1"	593
S2	36	#5	1	6'-1"	228
S3	12	#4	2	8'-5"	67
S4	84	#4	3	3'-0"	168
S5	1	#5	2	9'-10"	10
S6	182	#5	4	4'-4"	823
* S7	10	#5	STR	3'-8"	38
S8	2	#5	2	9'-0"	19
S9	4	#5	STR	3'-3"	14
S10	1	#3	STR	1'-10"	1

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



QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	6000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
CG1,CG4,CG5,CG10	2046	14.0	20
CG2,CG3,CG6,CG7,CG8,CG9	2157	14.0	20

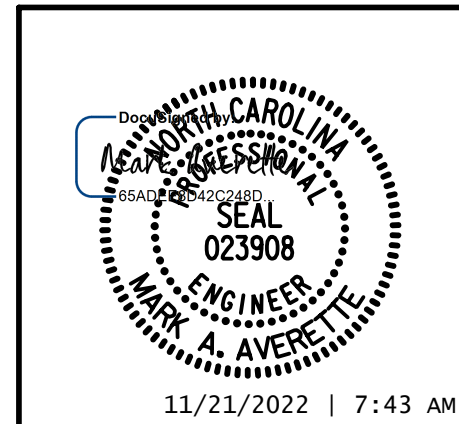
GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
10	70'-4 1/8"	703.44'



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

SHEET 3 OF 4

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



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. S-21
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 72
2			4			

LICENSURE NO. C-4434

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**