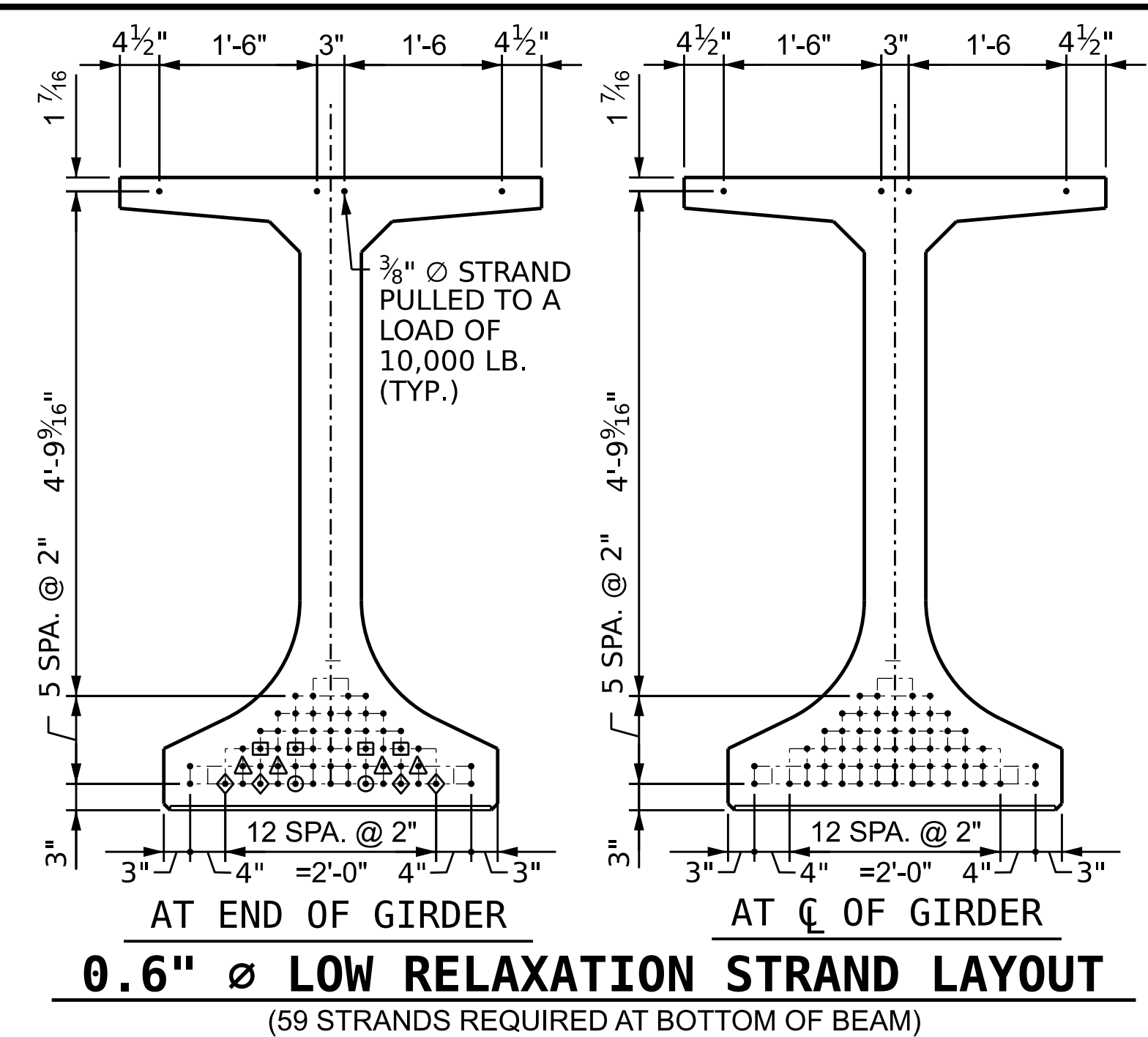


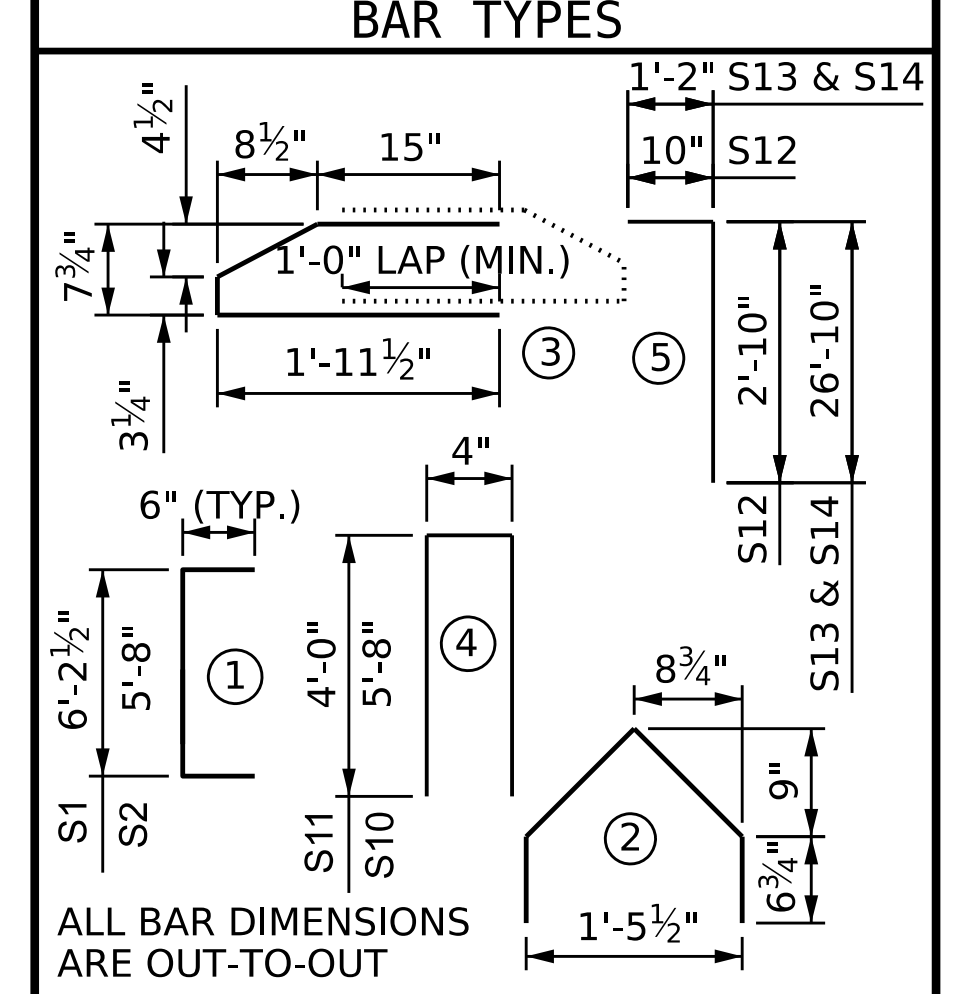
1 1/2" Ø FORMED HOLE. SEE ELEVATION FOR LOCATION. FOR DIM. "A", "B" & "C" SEE "PRESTRESSED CONCRETE GIRDER DETAILS" SHEET.)

- DEBONDING LEGEND**
- FULLY BONDED STRANDS
 - ◻ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
 - ▲ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
 - STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER
 - ◇ STRANDS DEBONDED FOR 16'-0" FROM END OF GIRDER



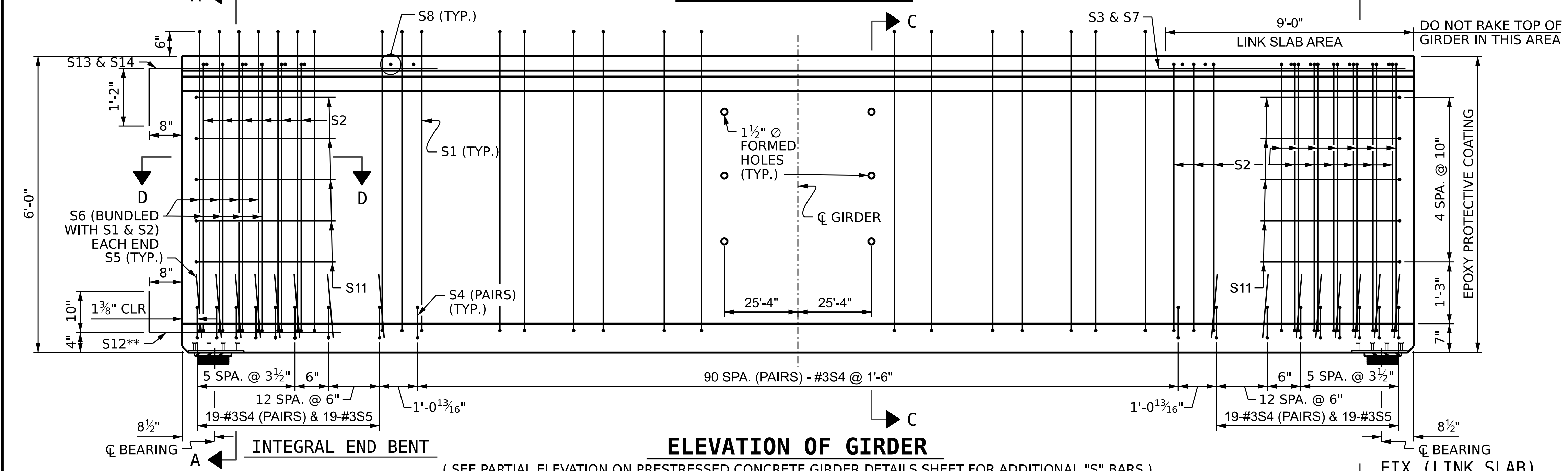
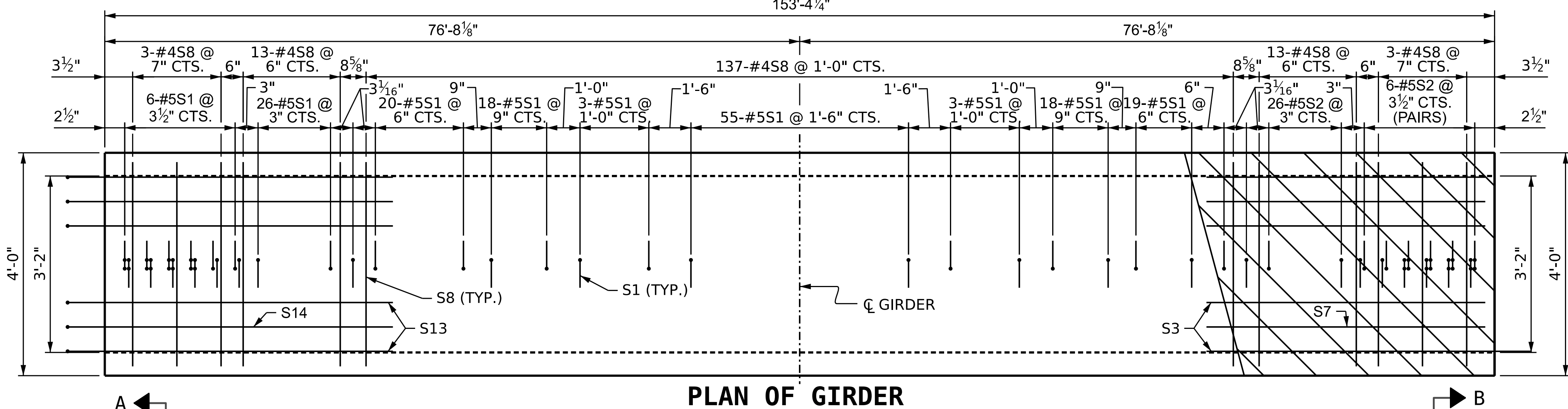
0.6" Ø L.R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR NUMBER	SIZE	TYPE	LENGTH	WEIGHT	
S1	169	#5	1	7'-2"	1264
S2	46	#5	1	6'-8"	320
S3	4	#6	STR	26'-0"	156
S4	258	#3	3	4'-3"	412
S5	38	#3	2	3'-3"	46
S6	16	#5	STR	5'-6"	92
S7	2	#7	STR	26'-0"	106
S8	169	#4	STR	3'-8"	414
S9	16	#4	STR	8'-0"	86
S10	8	#5	4	11'-8"	97
S11	10	#4	4	6'-4"	42
S12	10	#5	5	3'-8"	38
S13	4	#6	5	28'-0"	168
S14	2	#7	5	28'-0"	114



QUANTITIES FOR ONE GIRDER		
REINFORCING STEEL	8,500 PSI CONCRETE	0.6" Ø L.R. STRANDS
LB.	C.Y.	No.
3355	41.8	59

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
13	153'-4 1/4"	1,993'-7 1/4"



PROJECT NO. B-4442
BUNCOMBE COUNTY
 STATION: 315+72.39 -L-
 SHEET 1 OF 4

AECOM
 AECOM TECHNICAL SERVICES OF NC, INC.
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 (919) 854-6200 www.aecom.com
 AECOM License No. F62842

STATE OF NORTH CAROLINA
 PROFESSIONAL SEAL
 035062
 JOHN E. SLOAN
 ENGINEER
 8/17/2022

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
72" FLORIDA I-BEAM (FIB)					
PRESTRESSED CONCRETE GIRDER					
SPAN A INTERIOR GIRDER					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO. S-20
TOTAL SHEETS 58

DRAWN BY: A.R. VAN VUREN DATE: 04/2022
 CHECKED BY: D.S. TUTTLE DATE: 04/2022
 DESIGN ENGINEER OF RECORD: J.E. SLOAN DATE: 05/2022

*SEE NOTES 1 & 2 ON PRESTRESSED CONCRETE GIRDER DETAILS SHEET
 **FOR S12 BARS, SEE DETAIL "A" ON PRESTRESSED CONCRETE GIRDER DETAILS SHEET