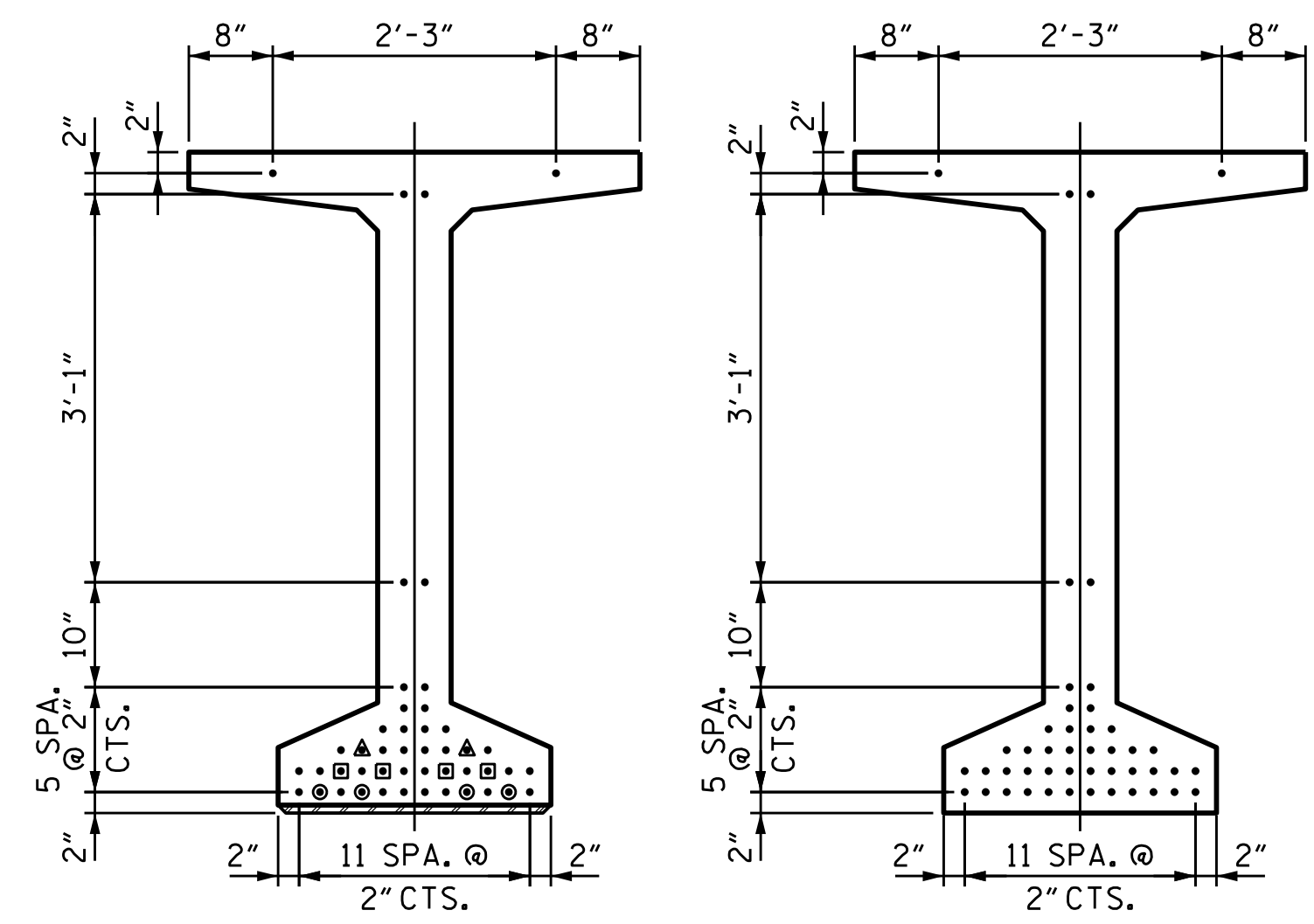


Ø 1/2" FORMED HOLE. SEE ELEVATION FOR LOCATION. FOR DIM. "A", "B" & "C" SEE "INTERMEDIATE STEEL DIAPHRAGMS" SHEET.)

- DEBONDING LEGEND**
- FULLY BONDED STRANDS
 - ▲ STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
 - STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER
 - ⊙ STRANDS DEBONDED FOR 20'-0" FROM END OF GIRDER

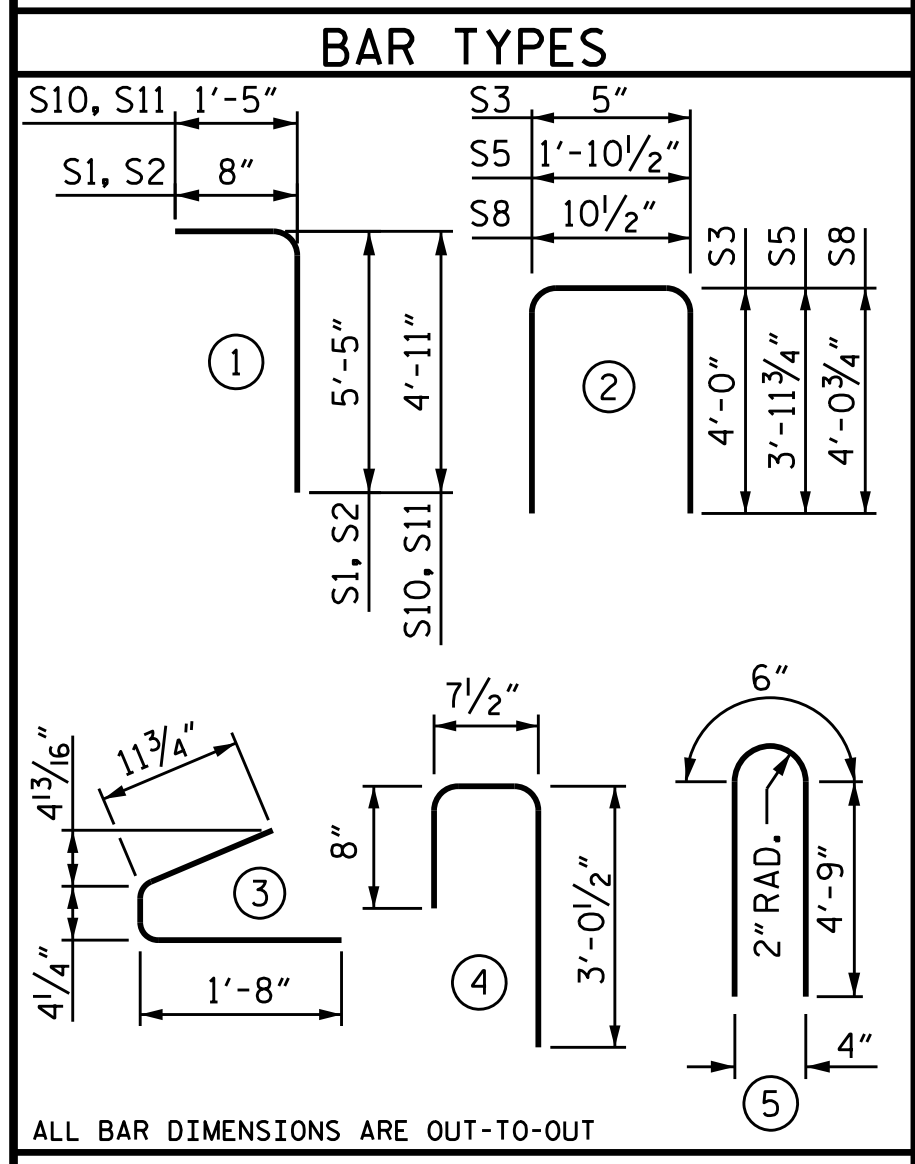


0.6" Ø LOW RELAXATION STRAND LAYOUT

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

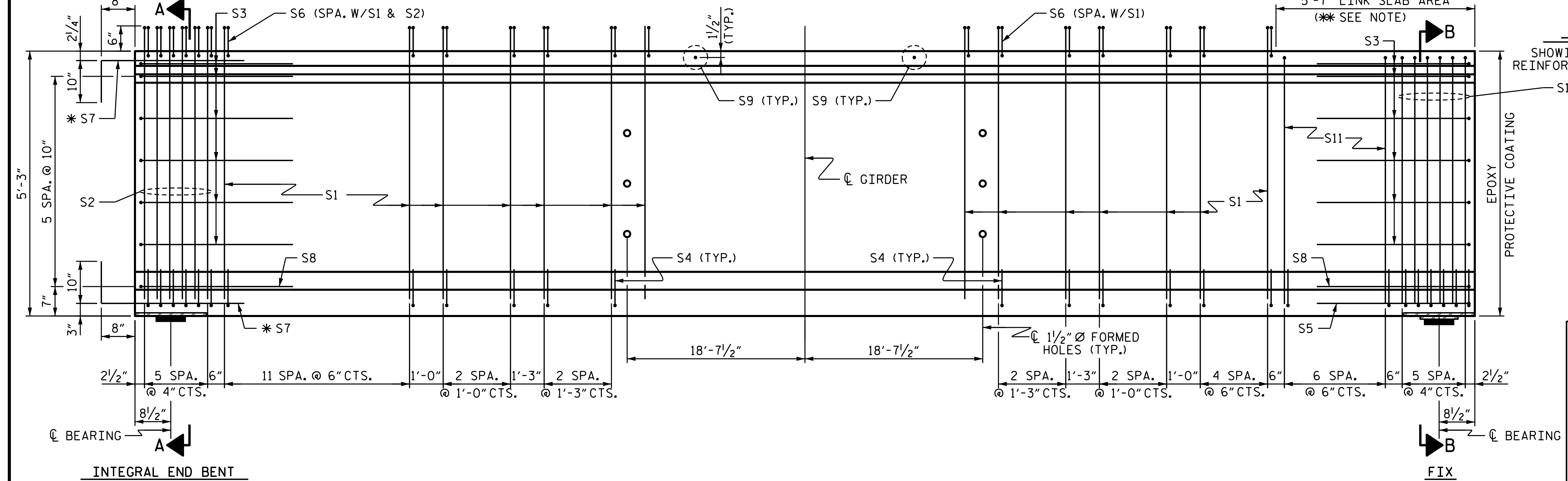
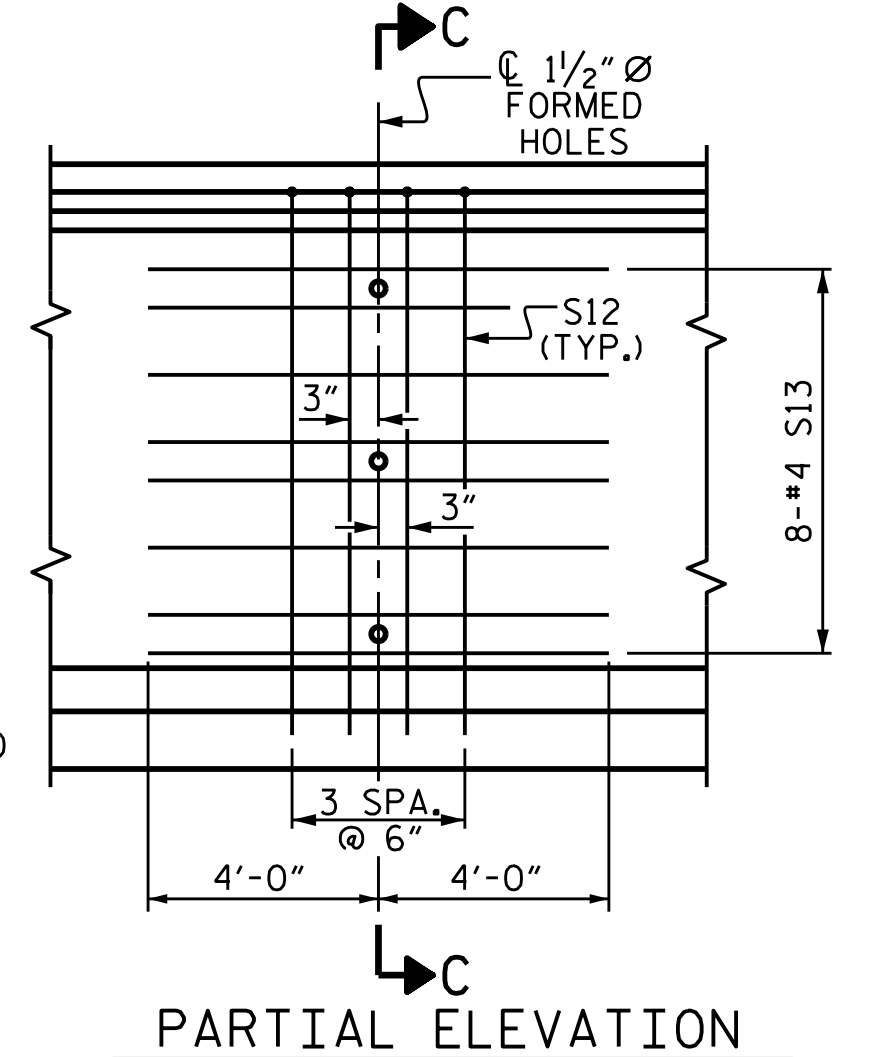
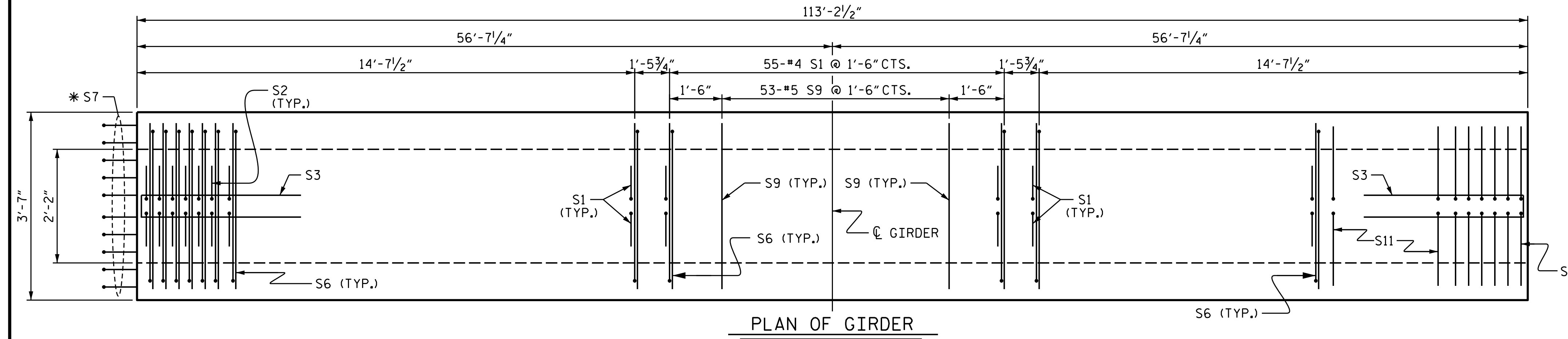
REINFORCING STEEL FOR ONE GDR					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	168	#4	1	6'-1"	683
S2	12	#5	1	6'-1"	76
S3	12	#4	2	8'-5"	67
S4	96	#4	3	3'-0"	192
S5	1	#5	2	9'-10"	10
S6	180	#5	4	4'-4"	814
* S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	53	#5	STR	3'-3"	180
S10	12	#5	1	6'-4"	79
S11	14	#4	1	6'-4"	59
S12	8	#5	5	10'-0"	83
S13	16	#4	STR	8'-0"	86

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



QUANTITIES FOR ONE GIRDER			
	REINFORCING STEEL	9,500 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GIRDERS 1-4	2,424	22.4	46

GIRDERS REQUIRED		
NUMBER	LENGTH	TOTAL LENGTH
4	113'-2 1/2"	452'-10"



ELEVATION OF GIRDER
* DO NOT RAKE TOP OF GIRDER IN THIS AREA.

ASSEMBLED BY : JLA	DATE : 4/22
CHECKED BY : MGC	DATE : 04/24
DESIGN ENGINEER OF RECORD : STM	DATE : 04/24
DRAWN BY : EEM	2/6/97
CHECKED BY : VAP	2/6/97
REV. 6/13	MAA/THC
REV. 1/15	MAA/THC
REV. 12/17	MAA/THC

STATE OF NORTH CAROLINA
 PROFESSIONAL ENGINEER
 Marshall G. Cheek Jr.
 6/27/2024
 ENGINEER
 MARSHALL G. CHEEK JR.
 LICENSE NO. C-0275

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
 201 W. MARION ST STE 200
 SHELBY, NC 28150
 PH: (704) 476-0003
 CORP. LICENSE NO.: C-0275

PROJECT NO. B-5845
 CLEVELAND COUNTY
 STATION: 22+56.00-L-
 SHEET 1 OF 4

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

REVISIONS						SHEET NO. S-16
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 40
2			4			