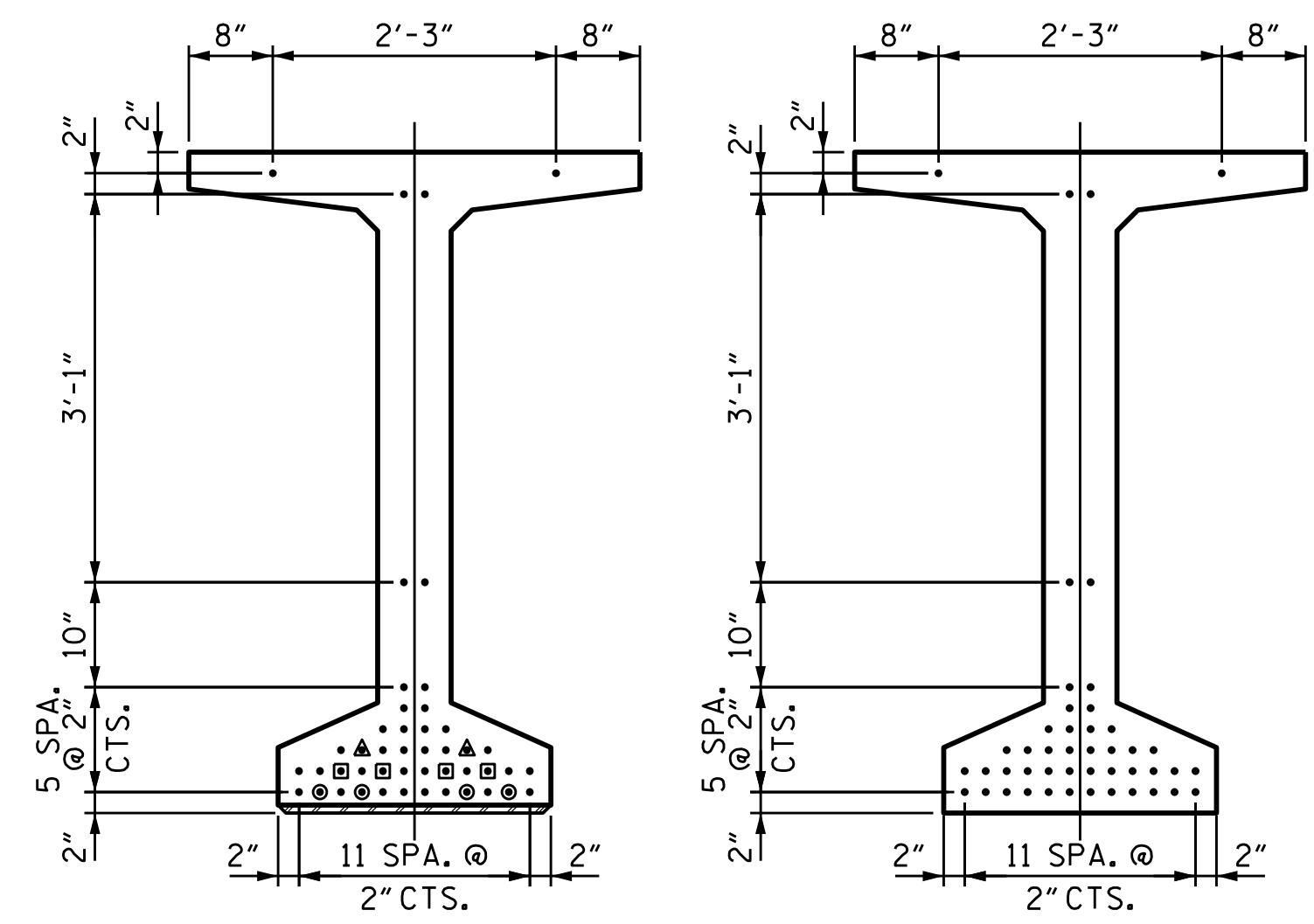


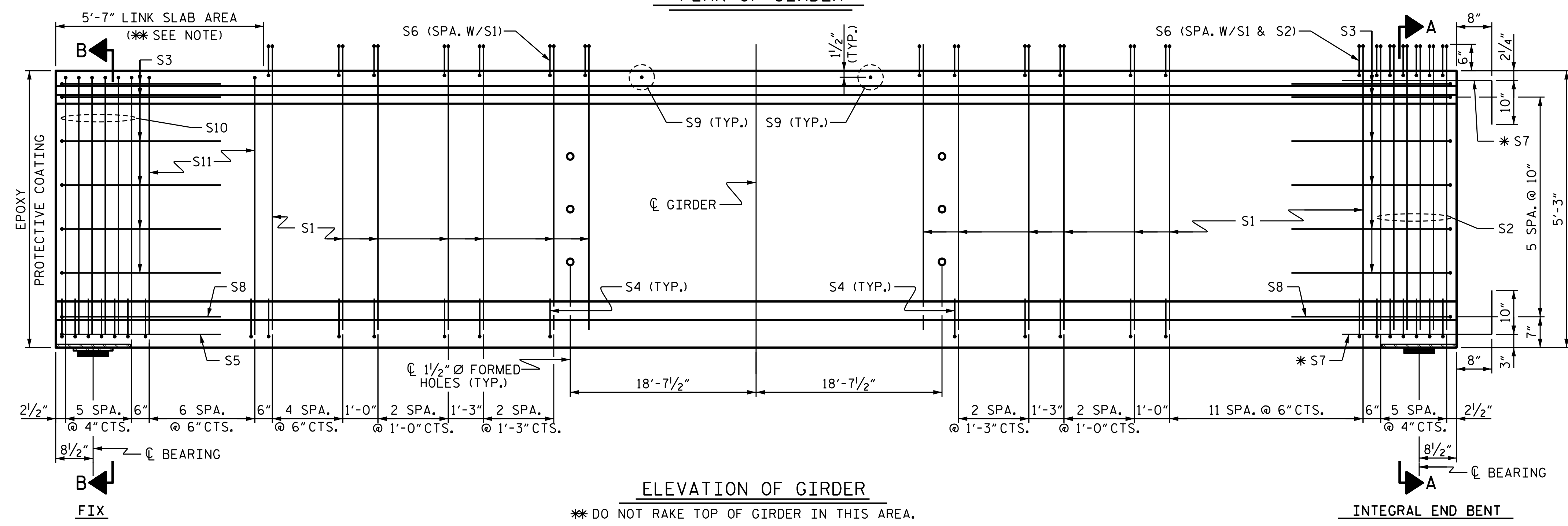
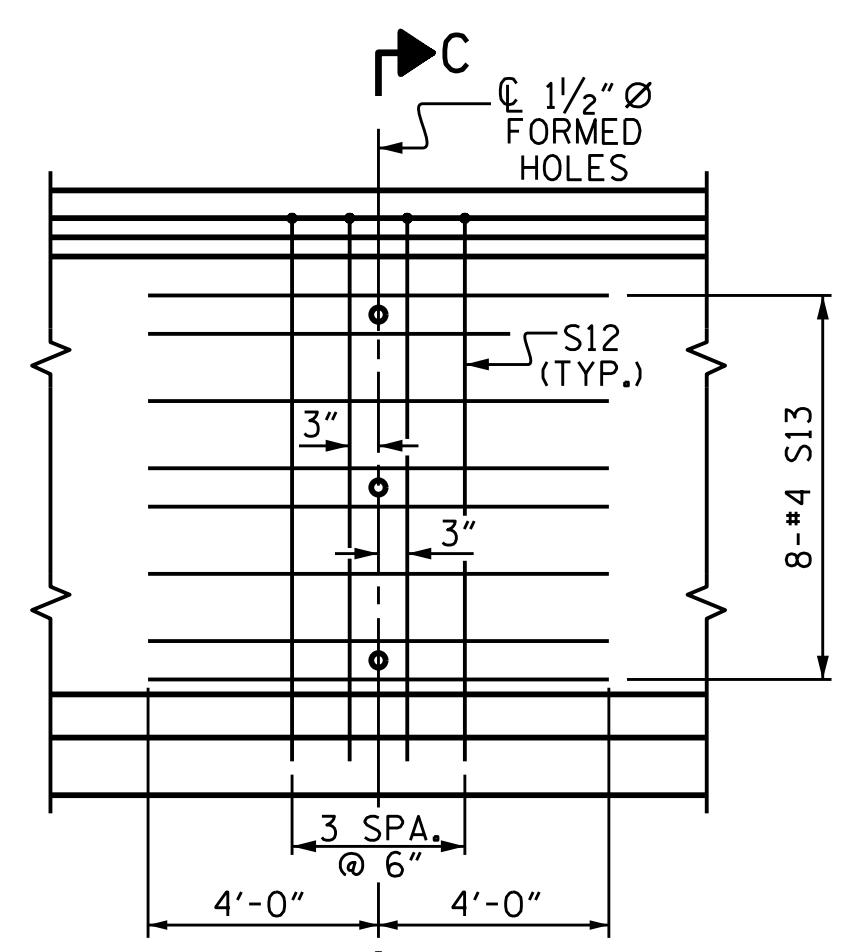
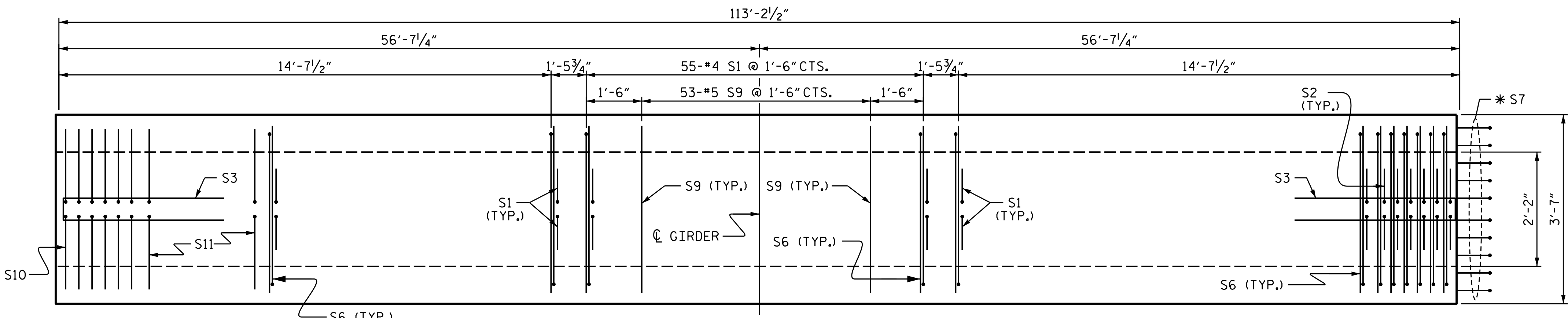
1/2" Ø FORMED HOLE. SEE ELEVATION FOR LOCATION. FOR DIM. "A", "B" & "C" SEE "INTERMEDIATE STEEL DIAPHRAGMS" SHEET.)

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



AT END OF GIRDER AT C OF GIRDER
0.6" Ø LOW RELAXATION STRAND LAYOUT

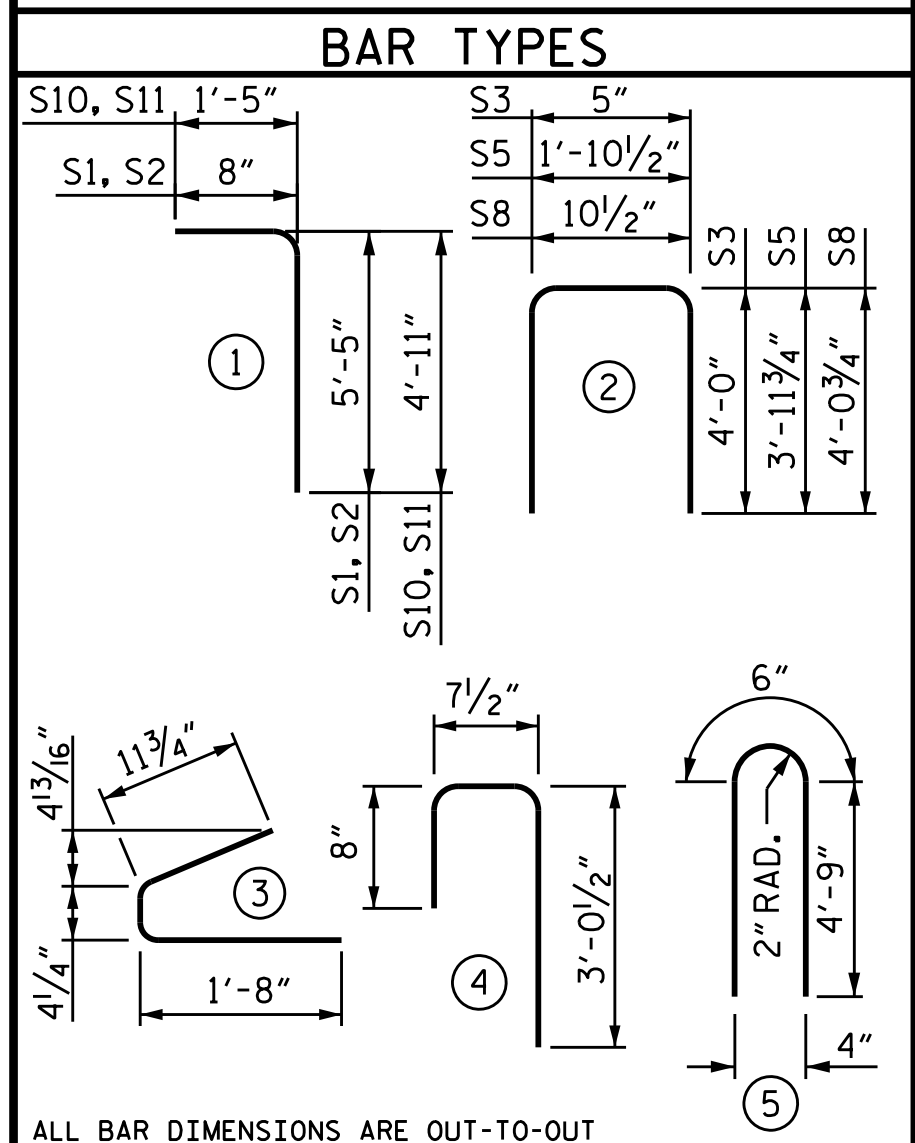


** DO NOT RAKE TOP OF GIRDER IN THIS AREA.

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

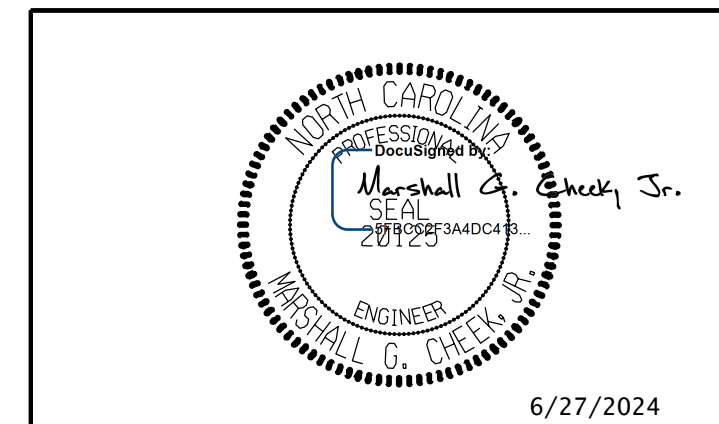
* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



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"

PROJECT NO. B-5845
CLEVELAND COUNTY
STATION: 22+56.00-L-
SHEET 2 OF 4



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

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
STANDARD 63" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD SPAN B					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.	S-17
TOTAL SHEETS	40

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	REV. 6/13 MAA/THC
CHECKED BY : VAP 2/6/97	REV. 1/15 MAA/THC
	REV. 12/17 MAA/THC