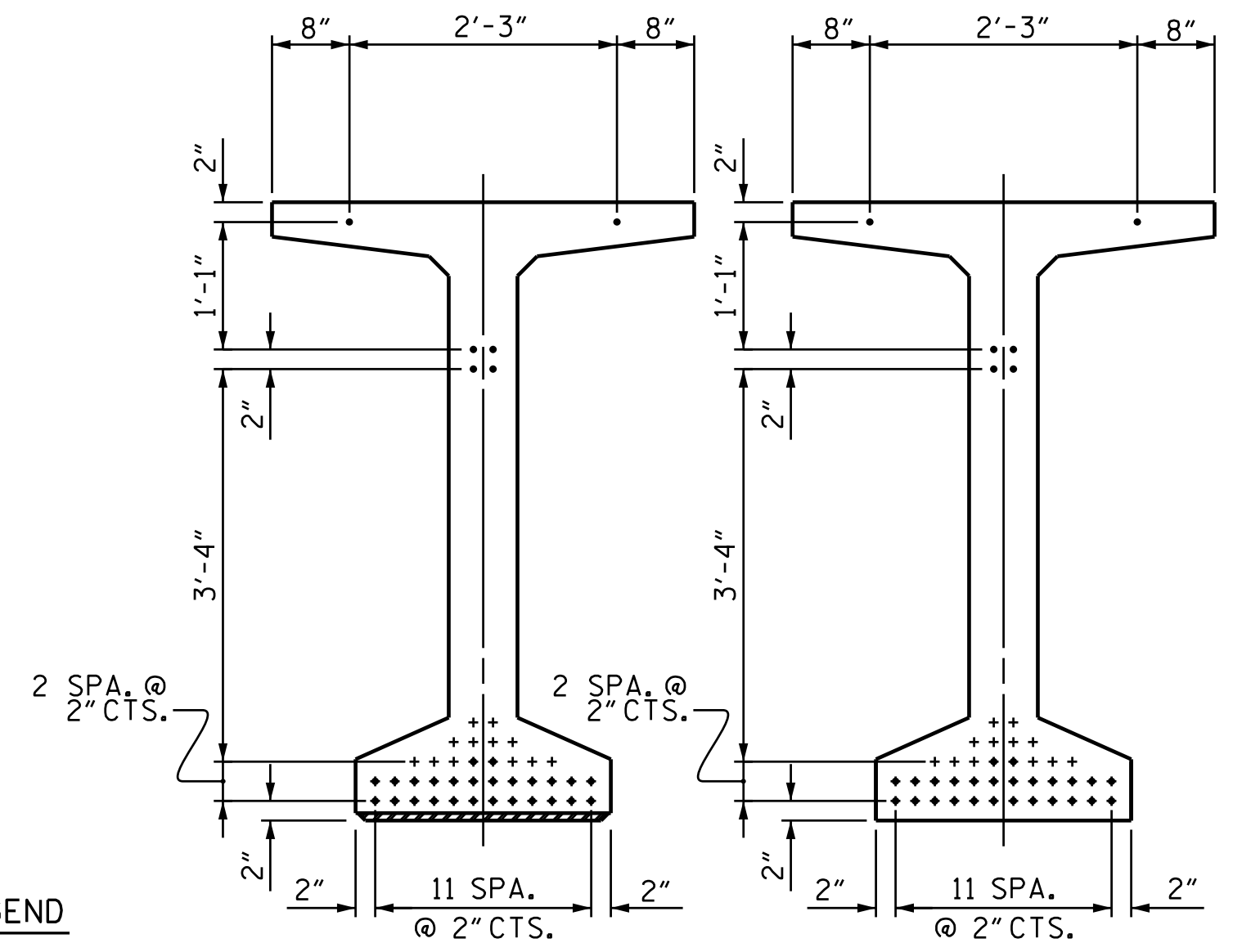


1 1/2"  $\phi$  FORMED HOLE. SEE ELEVATION FOR LOCATION. FOR DIM. "A", "B" & "C" SEE "INTERMEDIATE STEEL DIAPHRAGMS" SHEET.)

DEBONDING LEGEND  
● FULLY BONDED STRANDS

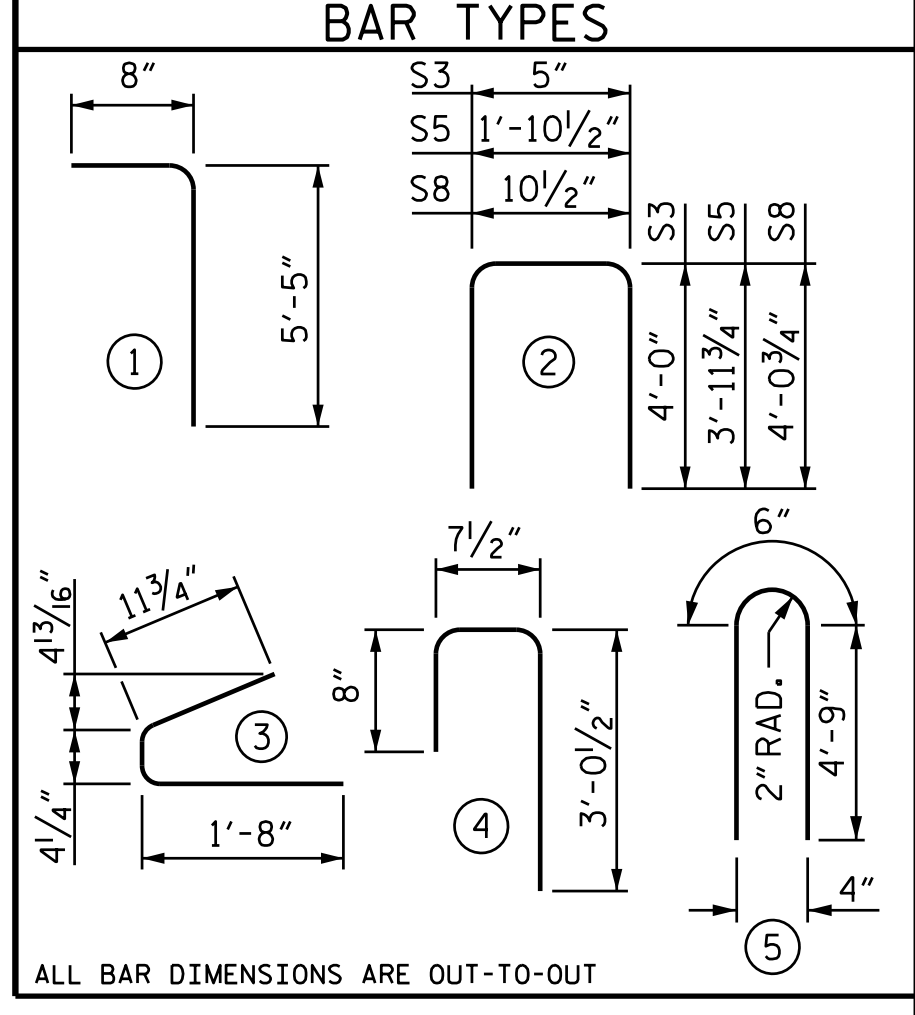


AT END OF GIRDER AT  $\phi$  OF GIRDER  
0.6"  $\phi$  LOW RELAXATION STRAND LAYOUT

(32 STRANDS, ALL STRAIGHT)

0.6" $\phi$ 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	164	#4	1	6'-1"	666
S2	32	#5	1	6'-1"	203
S3	12	#4	2	8'-5"	67
S4	80	#4	3	3'-0"	160
S5	1	#5	2	9'-10"	10
S6	196	#5	4	4'-4"	886
*S7	10	#5	STR	3'-8"	38
S8	2	#5	2	9'-0"	19
S9	57	#5	STR	3'-3"	193
S10	1	#3	STR	1'-10"	1
S11	4	#5	5	10'-0"	42
S12	8	#4	STR	8'-0"	43

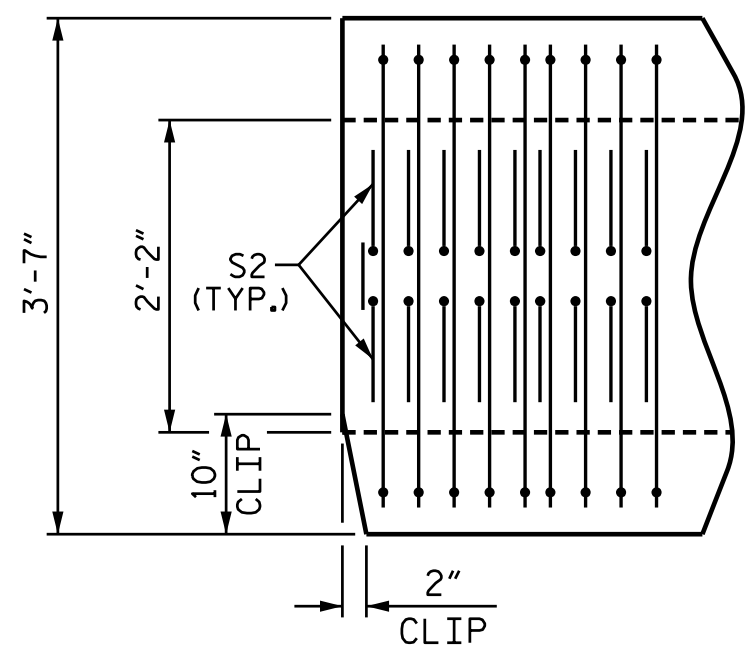
\* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



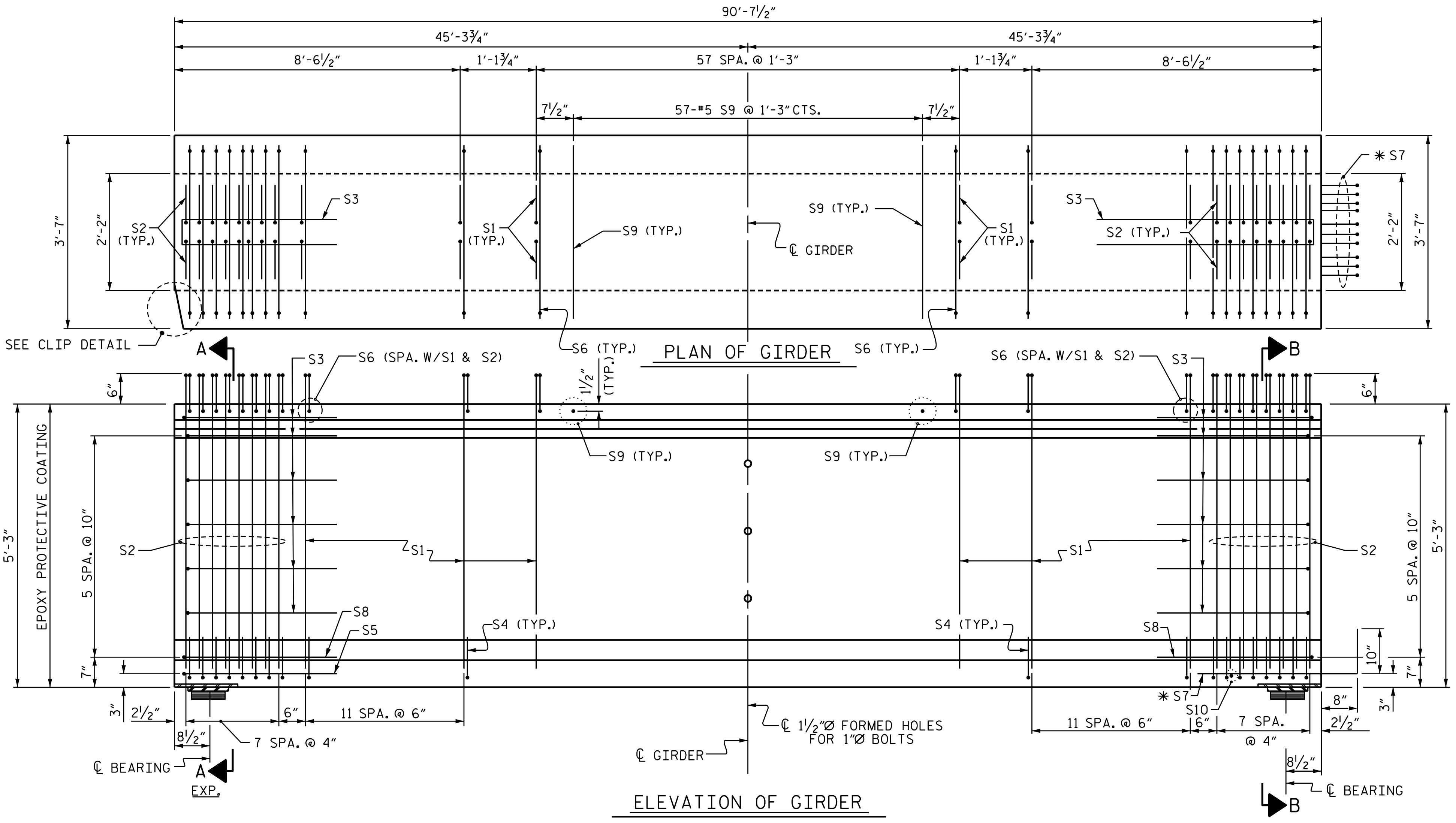
ALL BAR DIMENSIONS ARE OUT-TO-OUT

NOTES:  
FOR S11 AND S12 BARS, SEE SHEET 3 OF 4.  
BARS MAY BE SHIFTED SLIGHTLY AS NECESSARY IN CLIP AREA.

QUANTITIES FOR ONE GIRDER			
REINFORCING STEEL	8,000 PSI CONCRETE	0.6" $\phi$ L.R. STRANDS	
	LB.	C.Y.	No.
	2,328	18.0	32
GIRDERS REQUIRED			
NUMBER	LENGTH	TOTAL LENGTH	
5	90'-7 1/2"	453.13'	



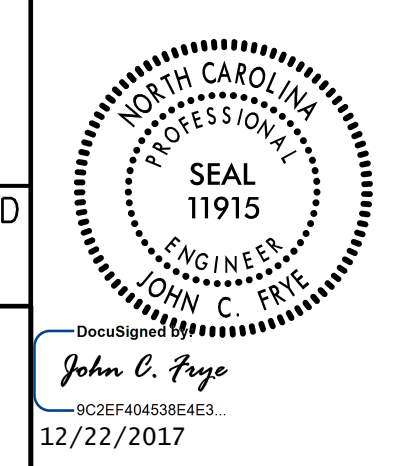
CLIP DETAIL



PROJECT NO. U-2525C  
GUILFORD COUNTY  
STATION: 17+37.28 -Y16-

SHEET 1 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
63" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD					
SPAN A					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					
					S1-11
TOTAL SHEETS					29



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
PLANS PREPARED BY:  
MOTT MACDONALD  
PO Box 700  
Fuquay-Varina, NC 27526  
(919) 552-2253  
www.mottmac.com  
LICENSE NO. F-0669

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 12/21/2017 3:32:17 PM

DRAWN BY: J. T. WILLIAMS DATE: 2-2017  
 CHECKED BY: J. E. MONDOLFI DATE: 8-2017  
 DESIGN ENGINEER OF RECORD: J. E. MONDOLFI DATE: 11-2017