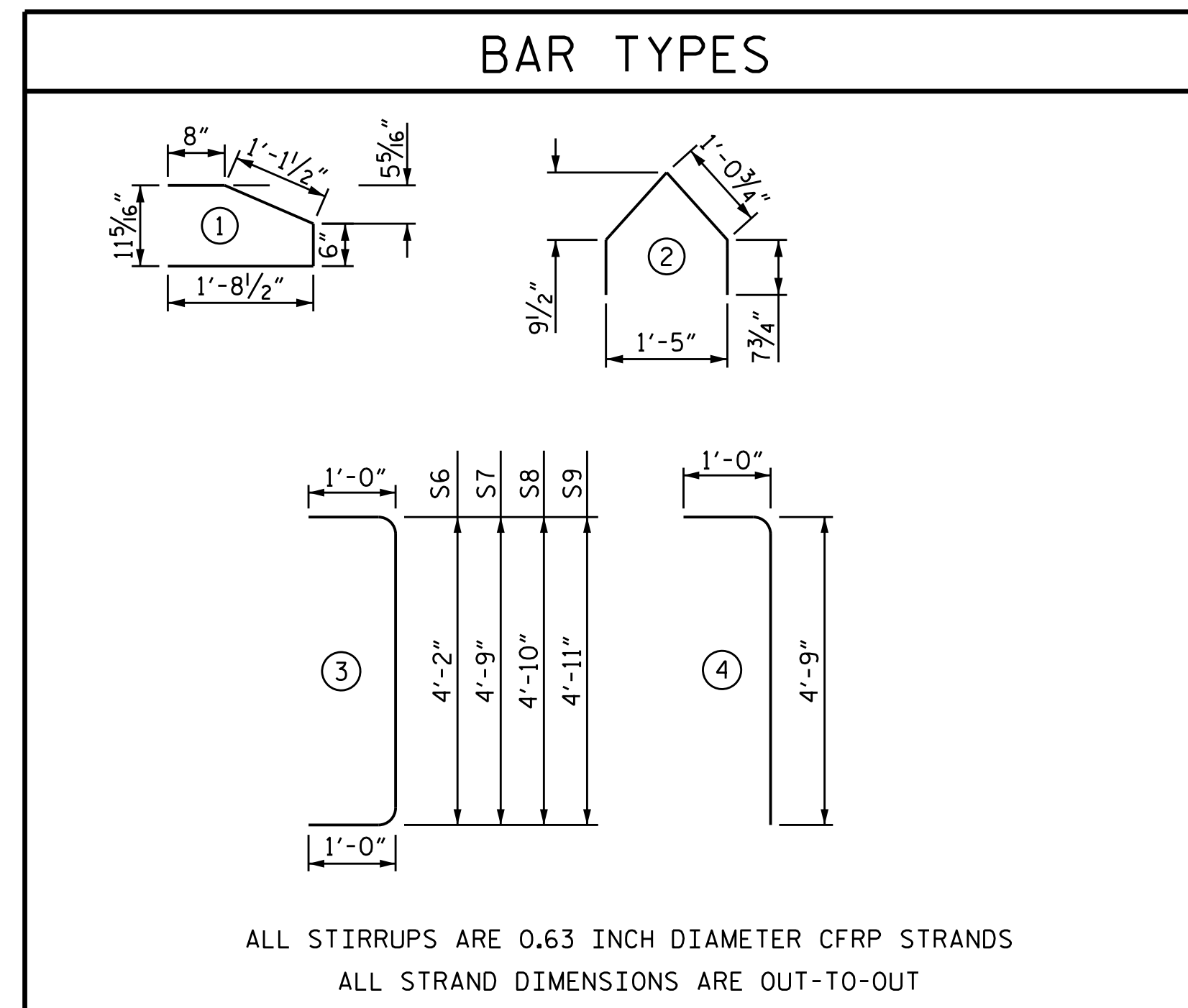


0.6" Ø CFRP STRANDS				
AREA	ULTIMATE STRENGTH	APPLIED PRESTRESS		
(SQUARE INCHES)	(LBS. PER STRAND)	(LBS. PER STRAND)		
0.179	60,749	42,524		
CFRP STIRRUP FOR ONE GIRDER				
SPAN A & C				
BAR	NUMBER	TYPE	LENGTH	LIN. FT.
S1	84	1	4'-0"	336'-0"
S2	42	2	3'-5"	143'-6"
S4	14	STR	6'-0"	84'-0"
S5	125	STR	3'-8"	458'-4"
S6	24	3	6'-2"	148'-0"
S8	56	3	6'-10"	382'-8"
S9	60	3	6'-11"	415'-0"
S10	110	4	5'-9"	632'-6"
QUANTITIES FOR ONE GIRDER				
TOTAL CFRP STIRRUP LENGTH			0.6" Ø CFRP STRANDS	
LIN. FT.			No.	
2600.00'			44	
GIRDERS REQUIRED				
SPAN	NUMBER	LENGTH	TOTAL LENGTH	
A	4	VARIES	397.43'	
C	4	VARIES	399.36'	

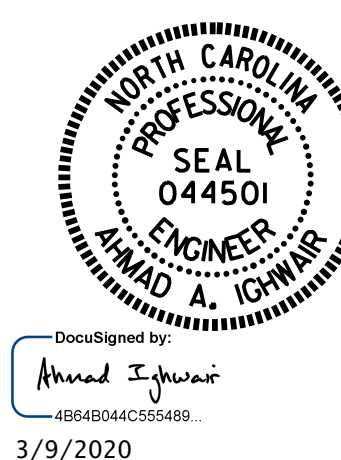
0.6" Ø CFRP STRANDS				
AREA	ULTIMATE STRENGTH	APPLIED PRESTRESS		
(SQUARE INCHES)	(LBS. PER STRAND)	(LBS. PER STRAND)		
0.179	60,749	42,524		
CFRP STIRRUP FOR ONE GIRDER				
SPAN B				
BAR	NUMBER	TYPE	LENGTH	LIN. FT.
S1	84	1	4'-0"	336'-0"
S2	42	2	3'-5"	143'-6"
S4	14	STR	6'-0"	84'-0"
S5	125	STR	3'-8"	458'-4"
S6	48	3	6'-2"	296'-0"
S8	56	3	6'-10"	382'-8"
S9	36	3	6'-11"	249'-0"
S10	110	4	5'-9"	632'-6"
QUANTITIES FOR ONE GIRDER				
TOTAL CFRP STIRRUP LENGTH			0.6" Ø CFRP STRANDS	
LIN. FT.			No.	
2582.00'			44	
GIRDERS REQUIRED				
NUMBER	LENGTH	TOTAL LENGTH		
4	VARIES	400.38'		

0.6" Ø CFRP STRANDS				
AREA	ULTIMATE STRENGTH	APPLIED PRESTRESS		
(SQUARE INCHES)	(LBS. PER STRAND)	(LBS. PER STRAND)		
0.179	60,749	42,524		
CFRP STIRRUP FOR ONE GIRDER				
SPAN R, T, U, W, X, Z, AA, & BB				
BAR	NUMBER	TYPE	LENGTH	LIN. FT.
S1	84	1	4'-0"	336'-0"
S2	42	2	3'-5"	143'-6"
S4	14	STR	6'-0"	84'-0"
S5	125	STR	3'-8"	458'-4"
S6	24	3	6'-2"	148'-0"
S7	56	3	6'-9"	378'-0"
S8	60	3	6'-10"	410'-0"
S10	110	4	5'-9"	632'-6"
QUANTITIES FOR ONE GIRDER				
TOTAL CFRP STIRRUP LENGTH			0.6" Ø CFRP STRANDS	
LIN. FT.			No.	
2590.33'			44	
GIRDERS REQUIRED				
SPAN	NUMBER	LENGTH	TOTAL LENGTH	
R	4	VARIES	398.66'	
T	4	VARIES	398.66'	
U	4	VARIES	397.66'	
W	4	VARIES	398.66'	
X	4	VARIES	397.66'	
Z	4	VARIES	398.67'	
AA	4	VARIES	398.68'	
BB	4	VARIES	396.83'	

0.6" Ø CFRP STRANDS				
AREA	ULTIMATE STRENGTH	APPLIED PRESTRESS		
(SQUARE INCHES)	(LBS. PER STRAND)	(LBS. PER STRAND)		
0.179	60,749	42,524		
CFRP STIRRUP FOR ONE GIRDER				
SPAN S, V, & Y				
BAR	NUMBER	TYPE	LENGTH	LIN. FT.
S1	84	1	4'-0"	336'-0"
S2	42	2	3'-5"	143'-6"
S4	14	STR	6'-0"	84'-0"
S5	125	STR	3'-8"	458'-4"
S6	48	3	6'-2"	296'-0"
S7	56	3	6'-9"	378'-0"
S8	36	3	6'-10"	246'-0"
S10	110	4	5'-9"	632'-6"
QUANTITIES FOR ONE GIRDER				
TOTAL CFRP STIRRUP LENGTH			0.6" Ø CFRP STRANDS	
LIN. FT.			No.	
2574.33'			44	
GIRDERS REQUIRED				
SPAN	NUMBER	LENGTH	TOTAL LENGTH	
S	4	VARIES	399.66'	
V	4	VARIES	398.66'	
Y	4	99'-8"	398.67'	



PROJECT NO. B-4863  
CARTERET COUNTY  
 STATION: 34+75.00 -L-  
 SHEET 7 OF 17



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 54" CFRP F.I.B.  
 PRESTRESSED CONCRETE GIRDER  
 (CFRP STIRRUP OPTION)

DRAWN BY : A. A. IGHWAIR DATE : 01-20  
 CHECKED BY : B.N.BARODAWALA DATE : 01-20  
 DESIGN ENGINEER OF RECORD: A. A. IGHWAIR DATE : 01-20

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S1-067
2			4			194