

	BAR BEND	DIAGRAMS	
1	2	3	4
a	a	a s /s	a b c
b a c	6 a bc de	7 a b S	8 a d
9 ab_∕⊝	10 Θ b a c Φ	11 a c p	a b
31 CUT LINE b	a 32 e b d f d	a 33	

s = STANDARD END HOOK, STIRRUP HOOK, OR TIE HOOK DIMENSION

SUBSTRUCTURE BAR WEIGHT

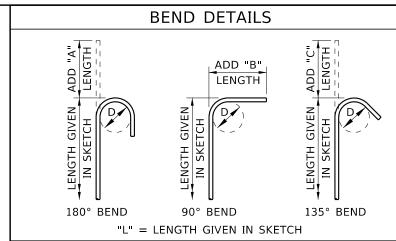
BAR	LINEAR	POUNDS	TOTAL
SIZE	FEET	PER FOOT	WEIGHT
#3		0.376	
#4		0.668	
#5		1.043	
#6		1.502	
#7		2.044	
#8		2.670	
#9		3.400	
#10		4.303	
#11		5.313	
#14		7.650	
#18		13.600	
TOTAL WEIGHT			

SUPERSTRUCTURE BAR WEIGHT

<u> </u>		TORE D	W VV LICITI
BAR	LINEAR	POUNDS	TOTAL
SIZE	FEET	PER FOOT	WEIGHT
#4		0.668	
#5		1.043	
#6		1.502	
#7		2.044	
	TO	TAL WEIGHT	

FPOXY COATED BAR WEIGHT

ELOXI COXIED DAN WEIGHT				
BAR	LINEAR	POUNDS	TOTAL	
SIZE	FEET	PER FOOT	WEIGHT	
#4		0.668		
#5		1.043		
#6		1.502		
#7		2.044		
	TO	TAL WEIGHT		



	STAN	IDARD	END	STIRF	RUP AN	ID TIE
	ноок	DIMEN	ISIONS	ноок	DIMEN	ISIONS
BAR	А	ll Grade	:S	ALL GRADES		
SIZE	D	Α	В	D	В	С
#3	21/4"	5"	6"	1½"	4"	4"
#4	3"	6"	8"	2"	4½"	4½"
#5	3¾"	7"	10"	2½"	6"	5½"
#6	4½"	8"	1'-0"	4½"	1'-0"	8"
#7	51/4"	10"	1'-2"	51/4"	1'-2"	9"
#8	6"	11"	1'-4"	6"	1'-4"	10½"
#9	9½"	1'-3"	1'-7"			
#10	10¾"	1'-5"	1'-10"			
#11	1'-0"	1'-7"	2'-0"			
#14	1'-61/4"	2'-3"	2'-7"			
#18	2'-0"	3'-0"	3'-5"			

REINFORCEMENT NOTES

- 1. PROVIDE BEND DETAILS IN ACCORDANCE WITH THE LATEST ACI STANDARD PRACTICE AND AASHTO SPECIFICATIONS.
- 2. DIMENSIONS SHOWN IN THE "BAR BEND DIAGRAMS" ARE OUT TO OUT OF BEND POINTS, HOOKS, OR BAR ENDS, UNLESS NOTED OTHERWISE. PIN DIAMETER "D" IS THE SAME FOR BENDS AND HOOK ON A BAR.
- 3. NO DEDUCTIONS FOR CURVATURE AT BENDS ARE MADE EXCEPT FOR THE ADJUSTMENTS INCLUDED IN THE ABOVE "ADD LENGTH" DIMENSIONS.
- 4. * INDICATES STIRRUP OR TIE BAR.
- 5. PROVIDE BARS THAT CONFORM TO AASHTO M31, GRADE 60, TYPE S.
- 6. A. PROVIDE EPOXY COATED BARS DESIGNATED "E" IN THE "COAT" COLUMN. B. PROVIDE GLASS FIBER REINFORCED POLYMER COATED BARS DESIGNATED "G" IN THE "COAT" COLUMN.
- 7. BAR WEIGHTS ONLY INCLUDE REINFORCING STEEL PAID FOR UNDER THE PAY ITEMS 503-005A, 503-010A, 503-015A & 503-020A. OTHER REINFORCING STEEL NOT LISTED IS INCIDENTAL TO OTHER PAY ITEMS.

GFRP BAR LENGTH

BAR SIZE	LINEAR FEET PER BAR	NUMBER OF BARS	TOTAL LENGTH
#4			

REVISIONS				DESIGNED	SCALES SHOWN
10.	DATE	BY	DESCRIPTION	DESIGN CHECKED	ARE FOR 11" X 17"
\wedge				DESIGN CHECKED	PRINTS ONLY
$\overline{\wedge}$				DETAILED	CADD FILE NAME
$\stackrel{\wedge}{\rightarrow}$					Standards/Bridge Standard Drawings/
$\dot{\sim}$				DWG. CHECKED	B05.1.DGN
\triangle				CORRECTIONS	DRAWING DATE:
abla				CORRECTIONS	OCT 2023



PPROVED BY: RIDGE ENGINEER MICHAEL T. JOHNSON DATE: _ PROJECT NO.

METAL REINFORCEMENT	BRIDGE PLANS		
BRIDGE KEY NO.			
	COUNTY	KEY NO.	
BRIDGE LRFD DESIGN MANUAL, B5.1	BRIDGE DWG. NO.	SHEET OF	