

[illegible]

1 	2 	3 	4
5 	6 	7 	8
9 	10 	11 	30 CUT LINE
31 CUT LINE 	32 	33 	

180° BEND

90° BEND

135° BEND

"L" = LENGTH GIVEN IN SKETCH

	STANDARD END HOOK DIMENSIONS			STIRRUP AND TIE HOOK DIMENSIONS		
BAR SIZE	ALL GRADES			ALL GRADES		
	D (IN)	A (IN)	B (IN)	D (IN)	B (IN)	C (IN)
*3	2 ¹ / ₄	5	6	1 ¹ / ₂	4	4
*4	3	6	8	2	4 ¹ / ₂	4 ¹ / ₂
*5	3 ³ / ₄	7	10	2 ¹ / ₂	6	5 ¹ / ₂
*6	4 ¹ / ₂	8	12	4 ¹ / ₂	12	8
*7	5 ¹ / ₄	10	14	5 ¹ / ₄	14	9
*8	6	11	16	6	16	10 ¹ / ₂
*9	9 ¹ / ₂	15	19			
*10	10 ³ / ₄	17	22			
*11	12	19	24			
*14	18 ¹ / ₄	27	31			
*18	24	36	41			

1. ALL BEND DETAILS TO BE ACCORDING TO THE LATEST A.C.I. STANDARD PRACTICE AND AASHTO SPECIFICATIONS.
2. DIMENSIONS SHOWN IN THE "BAR BEND DIAGRAMS" ARE OUT TO OUT OF BEND POINTS OR HOOKS AND/OR END OF BARS UNLESS NOTED OTHERWISE. PIN DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS 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. ALL BARS SHALL CONFORM TO AASHTO M31, GRADE 60.
6. BARS DESIGNATED "E" IN THE "COAT (E)" COLUMN SHALL BE EPOXY COATED.
7. ONLY REINFORCING STEEL TO BE PAID FOR UNDER THE BID ITEMS 503-005A, 503-010A, 503-015A & 503-020A IS SHOWN ON THIS SHEET. SEE OTHER SHEETS FOR REINFORCING STEEL INCLUDED IN OTHER PAY ITEMS.
8. THE CONTRACTOR SHALL VERIFY THE QUANTITY, SIZE, AND SHAPE OF THE BAR REINFORCEMENT AGAINST THE STRUCTURE DRAWINGS AND MAKE ANY NECESSARY CORRECTIONS BEFORE ORDERING, AS PER SUBSECTION 503.03 OF THE STANDARD SPECIFICATIONS.

<i>BAR SIZE</i>	<i>LINEAR FEET</i>	<i>POUNDS PER FOOT</i>	<i>TOTAL WEIGHT</i>
*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	
<i>TOTAL WEIGHT</i>			

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<i>*5</i>		<i>1.043</i>	
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<i>TOTAL WEIGHT</i>			

R E V I S I O N S				DESIGNED	SCALES SHOWN	ORIGINAL SIGNED BY:	<div style="text-align: center;"> IDAHO TRANSPORTATION DEPARTMENT  </div>	English	METAL REINFORCEMENT	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED	ARE FOR 34" X 22" PRINTS ONLY					COUNTY	KEY NO.
△								PROJECT NO.		BRIDGE LRFD MANUAL, PAGE B5.1	
△				DETAILED	CADD FILE NO.					COUNTY	KEY NO.
△				DWG. CHECKED	\\prj00000\bridge\					BRIDGE DRAWING NO.	SHEET
△				CORRECTIONS	b05_1.dgn						OF
△					DRAWING DATE:	DATE SIGNED: <u>DATE</u>					
					MAY 2002	ORIGINAL STORED AT: ITD BRIDGE SECTION					