

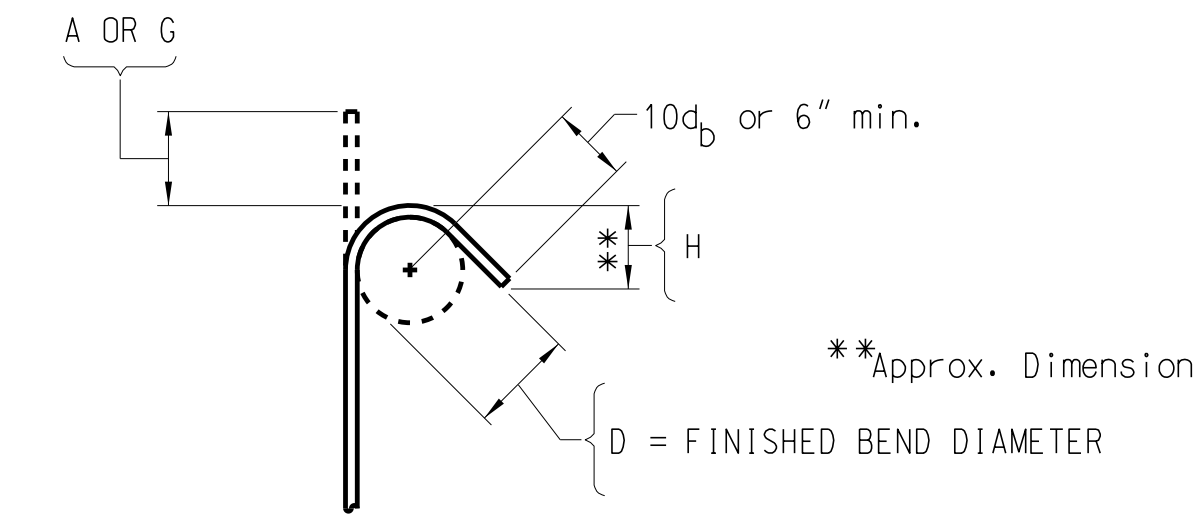
REINFORCING STEEL CODE			
TYPE	SIZE	SERIES	COUPLER
A	05	01	②

- ① Ultimate Butt-Welded Splice - Use complete joint penetration butt weld conforming to the requirements of AWS D1.4/D1.4M Structural Welding Code - Reinforcing Steel (Latest Edition) and the Standard Specifications.
- ② If a mechanical coupler is required, the reinforcing steel code includes a designation of "S" for a service level coupler and a designation of "U" for an ultimate strength coupler. Unless noted otherwise, bar lengths shown in the Reinforcing Steel Schedules are to the center of the coupler. If necessary, adjust the length of the bars to maintain the required concrete cover.
- ③ Splice WS and WP bars with either ultimate welded lap splices or ultimate mechanical couplers. Use over and under lap splices, not side by side, to maintain bar clearances.
- ④ The fabrication tolerance for welded hoop diameter is $\pm 1/2$ inch.
- ⑤ This 135° hook requirement does not apply to stirrups extending from prestressed concrete beams.

UNCOATED BARS - MINIMUM FINISHED BEND DIAMETER	
BAR SIZE AND USE	MINIMUM FINISHED DIAMETER
#03 THROUGH #05 - GENERAL	6.0 d _b
#03 THROUGH #05 - STIRRUPS AND TIES	4.0 d _b
#06 THROUGH #08	6.0 d _b
#09, #10, AND #11	8.0 d _b
#14 AND #18	10.0 d _b

GALVANIZED BARS - MINIMUM FINISHED BEND DIAMETER	
BAR SIZE AND USE	MINIMUM FINISHED DIAMETER
#03 THROUGH #06	6.0 d _b
#07 THROUGH #08	8.0 d _b
#09, #10, AND #11	8.0 d _b
#14 AND #18	10.0 d _b

d_b = nominal diameter of reinforcing bar (in.)
Due to safety concerns CRSI does not recommend bending bars larger than #14 with grade designation of Grade 75 or higher

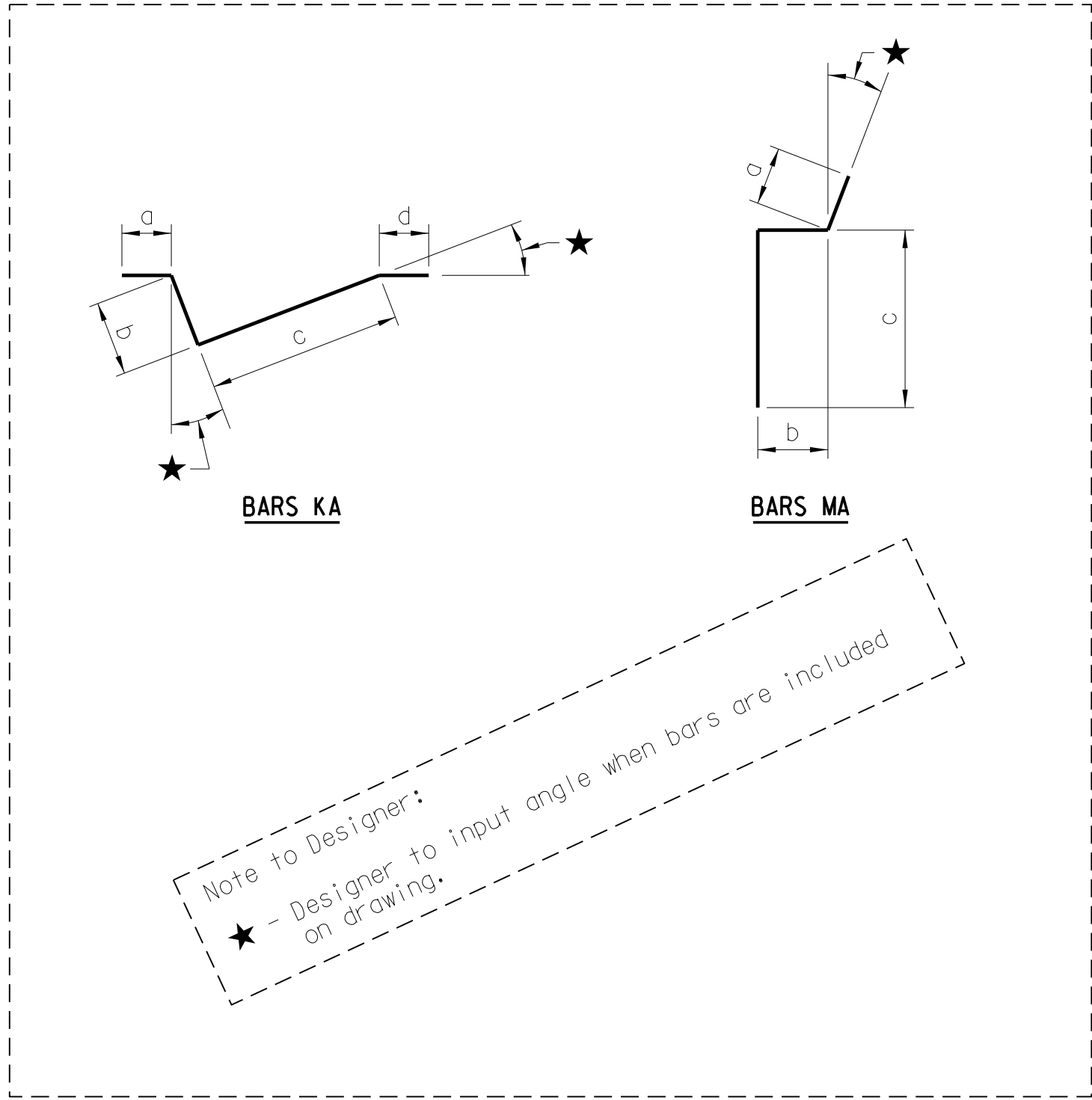


⑤ * STANDARD 135° SEISMIC HOOK
(SEE TABLE BELOW FOR DIMENSIONS)

STANDARD 135° HOOK DIMENSIONS							
UNCOATED				GALVANIZED			
SIZE	D (IN)	A OR G (IN)	H (IN)	D (IN)	A OR G (IN)	H (IN)	
#04	2.50	7.75	5.00	3.00	8.00	5.25	
#05	3.25	8.50	5.50	3.75	9.00	5.50	
#06	4.50	10.75	6.75	4.50	10.75	6.75	

REV.				<div style="text-align: center;"> SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION </div> <div style="text-align: center; font-size: 2em; margin-top: 20px;"> REINFORCING BENDING DETAILS </div>
REV.	PCW	HL	06-23	
	DMO123/0223/0323			
REV.	PCW	HL	03-21	
	Rev. Bars LA			
REVIEWED				
QUAN.				
DR.	BMH	MRW	11-10	
DES.				
BY	CHK.	DATE	COUNTY XXXXXXXX <div style="float: right;">ROUTE XXXXXX</div>	

REV.	RCV	PCW	D6-23
		DMO223	
REV.	JXY	SAN	3-14
		Add Border	
DR.	BMH	MRW	11-10



Note to Designer:
This drawing shown are sheet specific. Any use of this design and drawing, including dimensions, must be checked by the User's Engineer to ensure design is adequate for the intended use. All drawings must be signed and sealed by a South Carolina Registered Professional Engineer when used.
Before specifying welded hoops with a bar diameter larger than $\frac{3}{4}$, consult with a minimum of two fabricators to determine if there is a potential for fabrication issues and modify the fabrication tolerance and concrete cover if necessary.