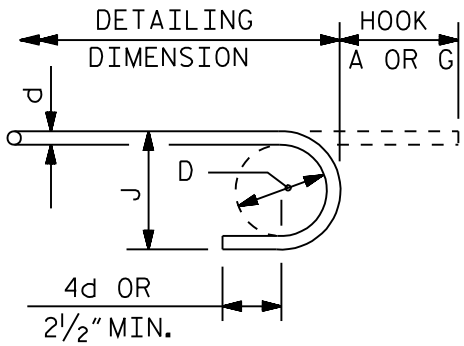
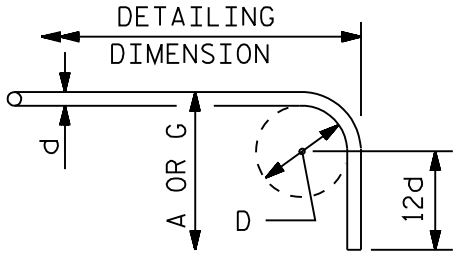
D = BEND DIAMETER

BAR SIZE	WT. (lbs./ft.)	APPROX. DIAMETER OUTSIDE DEFORMATION (inches)	NOMINAL DIA. (inches)	180° END HOOKS		90° END HOOKS
				HOOK A OR G	J	HOOK A OR G
#3	0.376	7/16"	0.375	5"	3"	6"
#4	0.668	9/16"	0.500	6"	4"	8"
#5	1.043	11/16"	0.625	7"	5"	10"
#6	1.502	7/8"	0.750	8"	6"	1'-0"
#7	2.044	1"	0.875	10"	7"	1'-2"
#8	2.670	1 1/8"	1.000	11"	8"	1'-4"
#9	3.400	1 1/4"	1.128	1'-3"	11 3/4"	1'-7"
#10	4.303	1 7/16"	1.270	1'-5"	1'-1 1/4"	1'-10"
#11	5.313	1 5/8"	1.410	1'-7"	1'-2 3/4"	2'-0"
#14	7.650	1 7/8"	1.693	2'-3"	1'-9 3/4"	2'-7"
#18	13.600	2 1/2"	2.257	3'-0"	2'-4 1/2"	3'-5"



180°



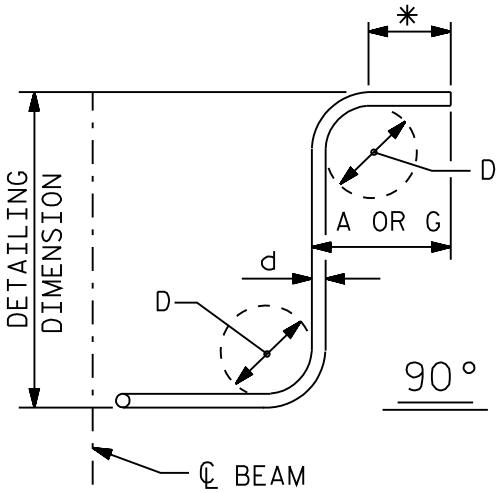
MIN. D= 6d FOR #3 THRU #8
MIN. D= 8d FOR #9 THRU #11
MIN. D= 10d FOR #14 AND #18

90°

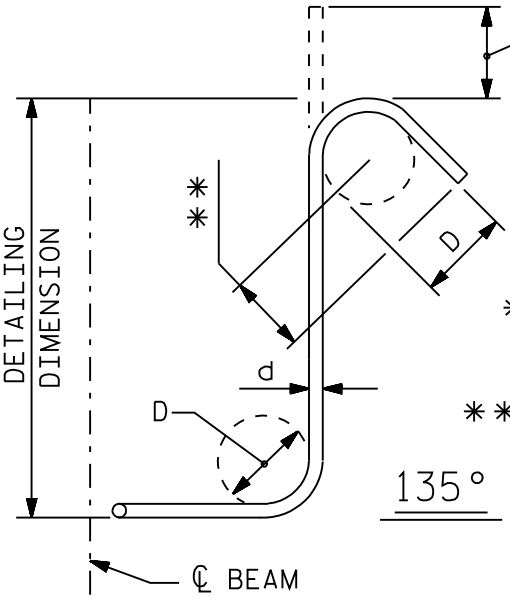
STIRRUP OR TIE

BAR SIZE	D (IN.)	90° HOOK A OR G	135° HOOK A OR G
#3	1 1/2"	4"	4"
#4	2"	4 1/2"	4 1/2"
#5	2 1/2"	6"	5 1/2"

D= 4d FOR #5 AND SMALLER
D= 6d FOR #6 TO #8



90°



135°

* 6d FOR #5 AND SMALLER
12d FOR #6 TO #8

** 6d FOR #8 AND SMALLER
(3" MIN.)

STIRRUP HOOKS
(TIE BENDS SIMILAR)

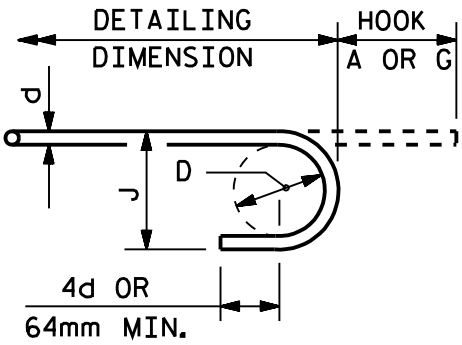
STANDARD BAR DETAILS

A.S.T.M. A615-96(a), GRADE 60

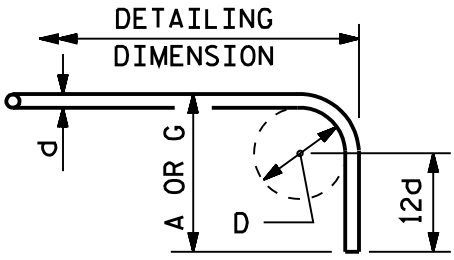
FIGURE 10 – 11

D = BEND DIAMETER

BAR SIZE	WT. (kg/m)	APPROX. DIAMETER OUTSIDE DEFORMATION (mm)	NOMINAL DIA. (mm)	180° END HOOKS		90° END HOOKS
				HOOK A OR G (mm)	J (mm)	HOOK A OR G (mm)
#10	0.560	11.1	9.5	125	80	150
#13	0.994	14.3	12.7	150	105	200
#16	1.552	17.5	15.9	175	130	250
#19	2.235	22.2	19.1	200	155	300
#22	3.042	25.4	22.2	250	180	375
#25	3.973	28.6	25.4	275	205	425
#29	5.060	31.8	28.7	375	300	475
#32	6.404	36.5	32.3	425	335	550
#36	7.907	41.3	35.8	475	375	600
#43	11.380	47.6	43.0	675	550	775
#57	20.240	63.5	57.3	925	725	1050



180°



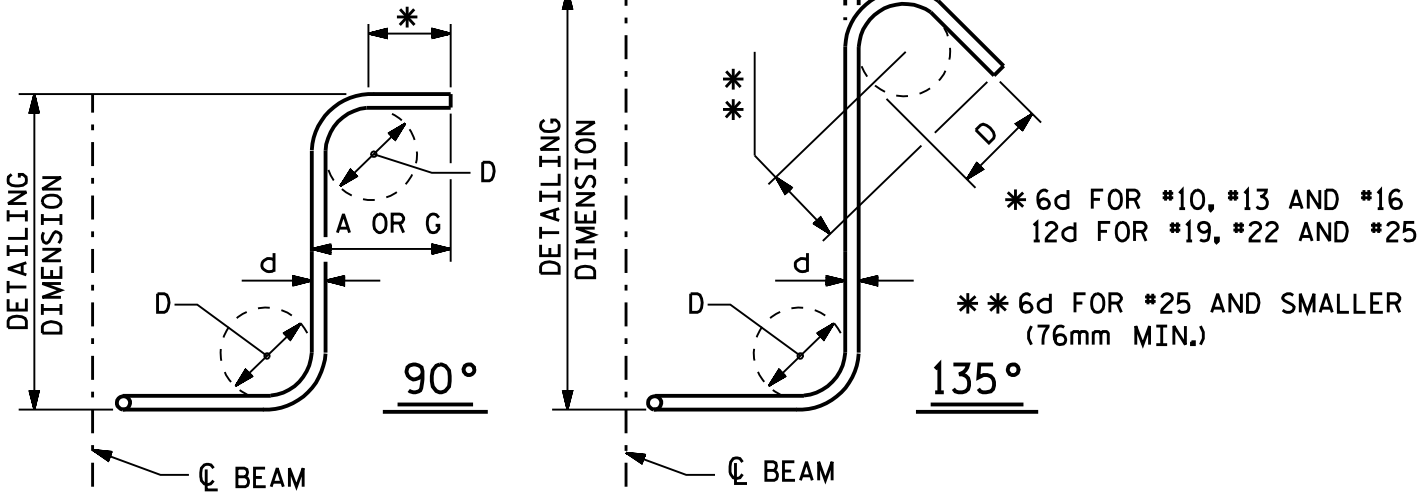
MIN. D= 6d FOR #10 THRU #25
MIN. D= 8d FOR #29 THRU #36
MIN. D= 10d FOR #43 AND #57

90°

STIRRUP OR TIE

BAR SIZE	D (mm)	90° HOOK A OR G (mm)	135° HOOK A OR G (mm)
#10	40	105	105
#13	50	115	115
#16	65	155	140

D= 4d FOR #16 AND SMALLER
D= 6d FOR #19, #22 AND #25



STIRRUP HOOKS
(TIE BENDS SIMILAR)

STANDARD BAR DETAILS

A.S.T.M. A615M-96(a), GRADE 420

FIGURE 10 - 11 M