
Index 415-001 Bar Bending Details (Steel)

ORIGINATION

Date: 7/11/24

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COMMENTARY

Updated these Types to maintain consistency with the schematic representation of the rest of the sheet.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **BLUE** = Standard Plans Response **GREEN** = Change Made to Index

Name: Russ Snyder

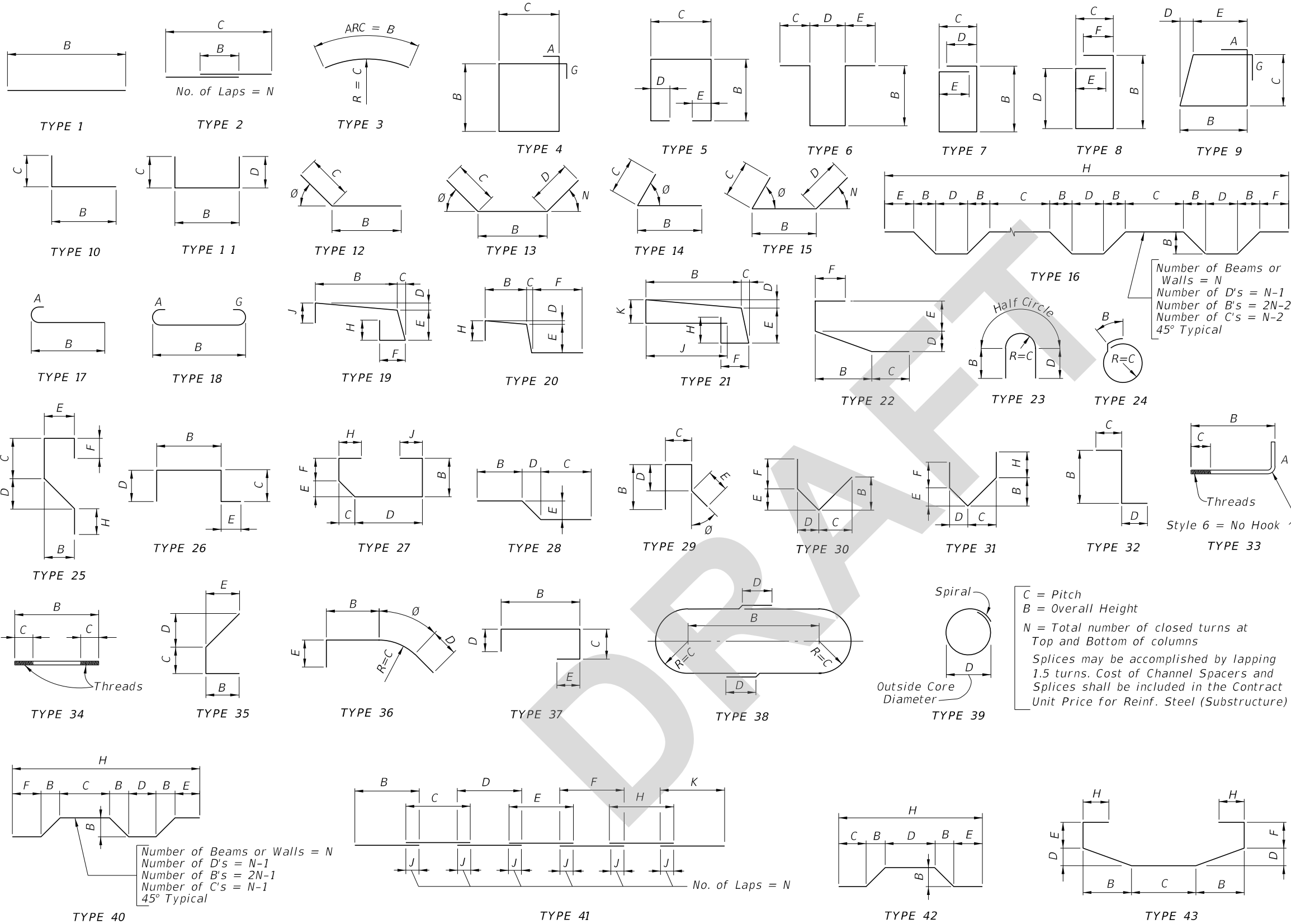
Date: 7/23/24

COMMENT: A dim F has been added to the Type 9 bar bend showing the dimension of the bar along the hypotenuse. Two issues: (1) There will be inherit round-off/math issues when dim C, dim D, and dim F are all given in integer inches per Struct Detailing Manual Section 4.3.10.c. (2) Why was this hypotenuse dimension only given on Type 9 bars? The same dimensioning scheme is used on Type 19, 20, 21, 22, 25, 27 28, 30, 31, 35, 40, 42, and 43 bar bends.

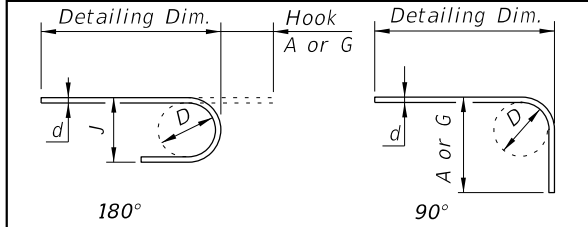
RESPONSE: Some comments came in about the dimensioning of with the radius and they wanted the out to out dimensions on Type 14 and 15 B dimensions and for acute corners Type 9 was also adjusted. After some review however we felt it didn't fit the convention of the rest of the sheet and we rolled back the changes and also went further and removed the radii. Dimension F should have been rolled back with it. We will remove it.

CHANGE MADE TO INDEX: Updated to remove F dimension.

Response Date: 7/24/24

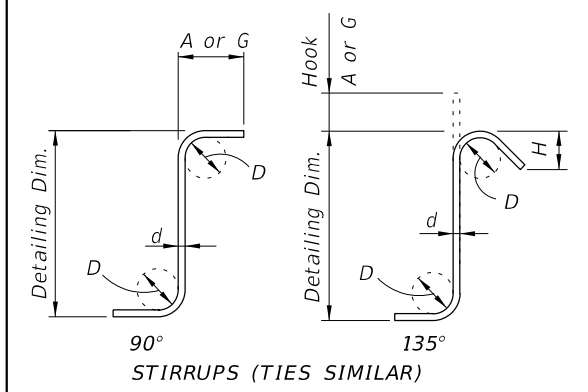


HOOK DETAILS



BAR SIZE	D	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"
#11	12"	1'-7"	1'-2 3/4"	2'-0"
#14	18 1/4"	2'-3"	1'-9 3/4"	2'-7"
#18	24"	3'-0"	2'-4 1/2"	3'-5"

STYLE 1 3



STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS		135° HOOKS	
		A or G	A or G	A or G	H *
#3	1 1/2"	4"	4"	4"	2 1/2"
#4	2"	4 1/2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	8"	8"	4 1/2"
#7	5 1/4"	1'-2"	9"	9"	5 1/4"
#8	6"	1'-4"	10 1/2"	10 1/2"	6"

STYLE 4 5

STYLE 6 = NO HOOK

* Dimension is approximate.
 Hook Styles Detailed on this sheet are for Illustration Only.
 Actual Hook Style for any particular bar will be shown under A or G Heading on REINFORCING BAR LIST sheet(s) in Structures Plans.
 All Dimensions are out-to-out.

NOTE: For Bar Dimensions See REINFORCING BAR LIST Sheet(s) in Structures Plans.

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