

PLACING CROSSARMS

CORNERS

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1. GENERAL

1.01 This section covers placing crossarms at corners.

1.02 The use of crossarms described in this section applies to all standard types of crossarms except where otherwise specified.

2. CROSSARMS AT CORNERS

2.01 Wherever practicable, crossarms placed at corners where the open wire is continuous should bisect the angle of the corner.

2.02 The use of crossarms at corners is indicated in the following table. (Note: Field conditions may require the use of reverse arms or double crossarms in place of double crossarms or single crossarms, respectively.)

HEAVY LOADING AREA

Span Length*	Corner Pull in feet					
	0-10	11-20	21-30	31-40	41-50	Over 50
0-200 ft.	S	S	S(BB)	S(BB)	S(BB)	D
201-350 ft.	S	S(BB)	S(BB)	D	D	D
351-600 ft.	S(BB)	S(BB)	D	D	D	R-A

MEDIUM LOADING AREA

Span Length*	Corner Pull in feet					
	0-10	11-20	21-30	31-40	41-50	Over 50
0-350 ft.	S	S	S(BB)	S(BB)	S(BB)	D
351-600 ft.	S	S(BB)	S(BB)	D	D	D

LIGHT LOADING AREA

Span Length*	Corner Pull in feet					
	0-10	11-20	21-30	31-40	41-50	Over 50
0-350 ft.	S	S	S	S(BB)	S(BB)	D
351-600 ft.	S	S	S(BB)	S(BB)	S(BB)	D

Note: ••Use average span length or the longer span adjacent to the corner pole, whichever is greater.

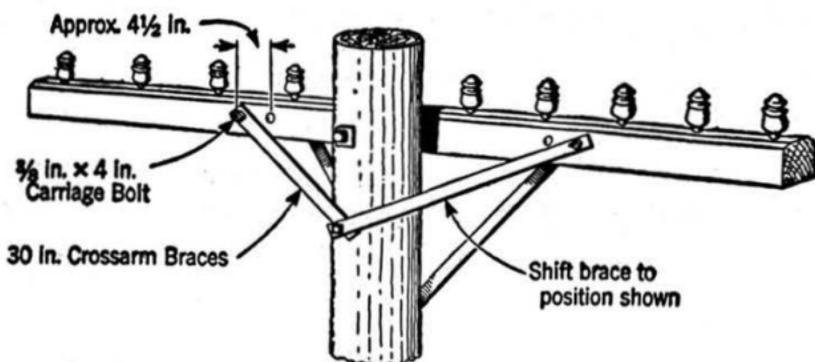
- S •Single crossarm
- S(BB) •Single crossarm with back braces
- D •Double crossarm
- R-A •Reverse (Buck) arm

3. CROSSARM BACK BRACES

3.01 Back brace single crossarms with 30-inch crossarm braces at all corner poles as indicated by the table in Paragraph 2.02.

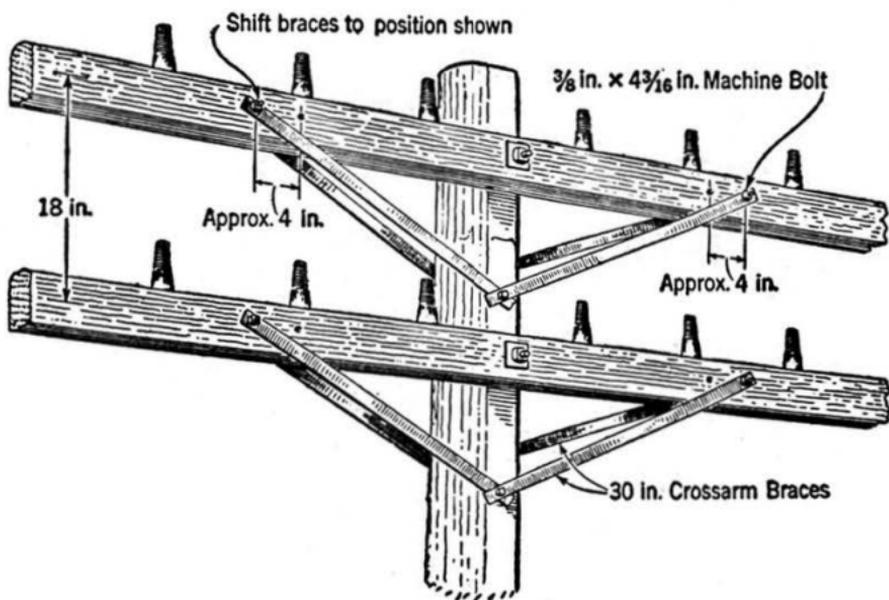
3.02 The method of back bracing crossarms is shown in the following illustrations:

(a) Crossarms on 24-inch spacing.

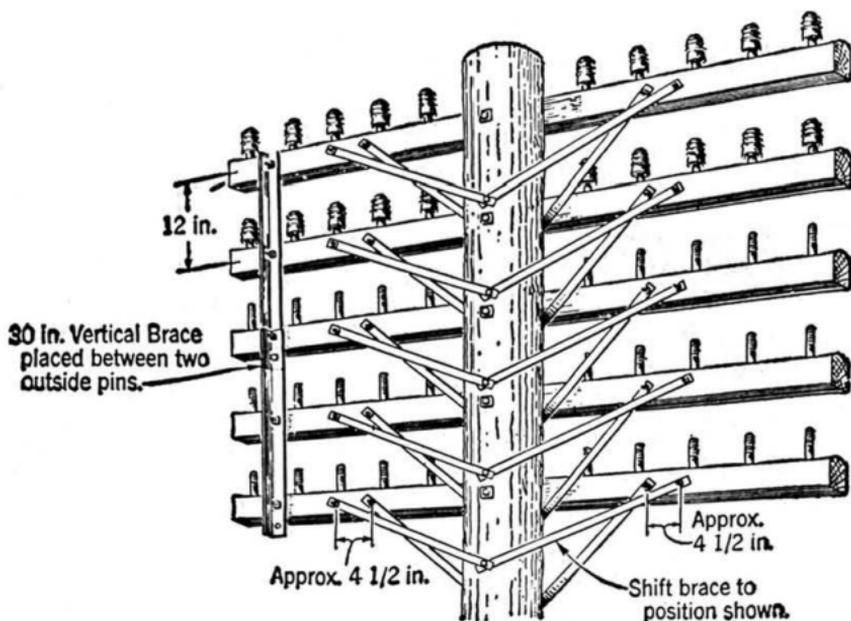


Note: - Alternative Practice for Crossarms on 24 in. Spacing. Replace the $\frac{3}{8}$ in. \times 4 in. Carriage Bolts with $\frac{3}{8}$ in. \times $4\frac{3}{16}$ in. Machine Bolts, and attach the back brace at opposite ends of the Machine Bolts

(b) Crossarms on 18-inch spacing.



(c) Crossarms on 12-inch spacing.



3.03 The amount of offset for crossarm back braces may be varied if necessary to avoid pin holes.

4. REVERSE (BUCK) ARMS

4.01 Reverse arm construction is generally used at the following locations:

- (a) Side leads where it is not practicable to branch off on a two-pole corner.
- (b) Right angle corners where it is not practicable to make the turn on two or more poles.
- (c) At points where it is desirable to place a reverse arm rather than have a continuous open wire corner.

Note: Reverse arms shall not be used where toll circuits are involved unless specified on the detail plans.

4.02 Reverse (buck) arms shall be placed as illustrated.

Note: On all buck arm installations made in the State of California, climbing space and the separation between wires shall be provided in accordance with the instructions given in the section covering Clearances for Aerial Plant.

