

SUSPENSION STRAND

ATTACHMENTS - E AND F CABLE CROSSARMS

CONTENTS	PAGE
1. GENERAL.....	1
2. USE	1
3. INSTALLATION.....	2

1. GENERAL

1.01 This section covers the field of use of E and F cable crossarms. It has been revised to change the instructions for attaching suspension strand to these arms.

1.02 Cable crossarms should be used only under the following conditions:

- (a) If existing cables are attached to cable crossarms.
- (b) When specifically shown on the detail plans.
- (c) Where required for clearance or climbing space reasons.

2. USE

2.01 SINGLE CABLE CROSSARMS shall in general be used under the following conditions:

- (a) Use an E CABLE CROSSARM where an ultimate load of two cables are to be supported and the weight of either cable per foot multiplied by one-half the sum of the adjacent span lengths is not more than 700 pounds.

(b) Use an F CABLE CROSSARM where an ultimate load of four cables are to be supported and the total weight of the cables per foot on either end of the arm multiplied by one-half the sum of the adjacent span lengths is not more than 1600 pounds.

2.02 DOUBLE CABLE CROSSARMS shall in general be used under the following conditions:

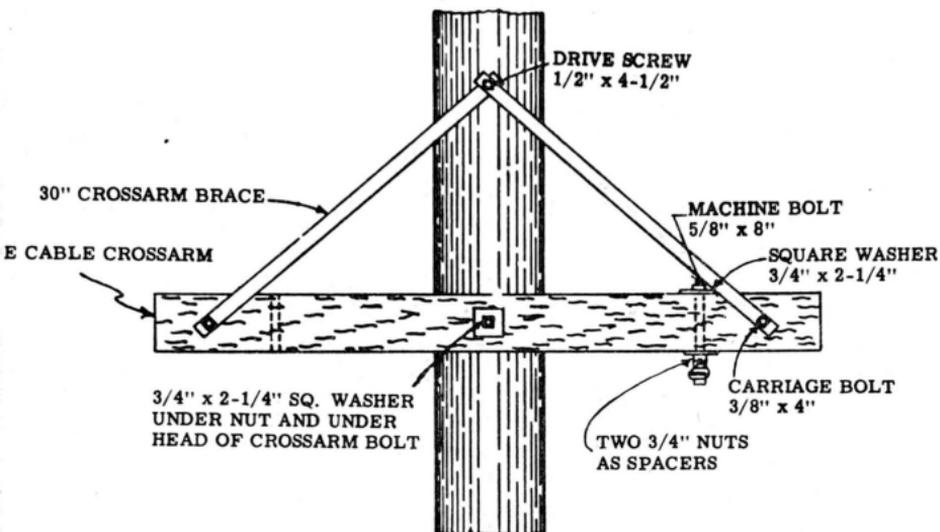
- (a) At railroad crossings other than street railways.
- (b) Where type "E" crossarms are used and the total weight of the cable per foot on either end of the arm multiplied by one-half the sum of the adjacent span lengths is more than 700 pounds but less than 1400 pounds.
- (c) Where type "F" crossarms are used and the total weight of the cables per foot on either end of the arm multiplied by one-half the sum of the adjacent span lengths is more than 1600 pounds but less than 3200 pounds.
- (d) At corner poles where the pull is over 10 feet and 6-M strand is used.
- (e) At corner poles where the pull is over 5 feet and 10-M or 16-M strand is used.
- (f) Where change of grade is encountered place double arms as follows:
 - (1) Where change of grade is $1/10$ to $1/20$ place double arms at top of grade and on every second pole on the grade.
 - (2) Where the change of grade is $1/5$ to $1/10$ place double arms on the pole at top of grade and on every pole on the grade.

Note: In no case shall the change of grade exceed $1/5$.

3. INSTALLATION

3.01 Types E and F Cable Crossarms are bored for crossarm bolts, crossarm braces, cable suspension bolts, drive rings and guard arm hooks. Equip the arms as described and illustrated below.

(a) Equip E CABLE CROSSARMS with two 30 inch crossarm braces attaching them to the arm with 3/8 inch by 4 inch carriage bolts, and to the pole by means of a 1/2 inch by 4-1/2 inch drive screw. Attach the cable suspension clamps to the arm and the arm to the pole as shown in the following figure.



(b) Equip the F CABLE CROSSARM with two F crossarm braces attaching them to the arm with 1/2 inch by 4-3/4 inch carriage bolts, and to the pole by means of a 5/8 inch crossarm bolt. Attach the cable suspension clamps to the arm and the arm to the pole as shown in the following figure.

