

POLE ATTACHMENTS  
PLACING GUARD ARMS

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1. GENERAL

1.01 This section covers the placing of guard arms on jointly used poles as required in Section G10.301S and other Bell System Practices. The detail plans may also specify the placing of additional guard arms where required by special agreement with supply utilities.

1.02 See Sections G10.301 in Nevada or G10.301S in California for clearance and climbing space requirements.

1.03 Where two or more cables, messengers, or other conductors are attached to a pole and a guard arm is required, the guard arm shall be placed over the uppermost attachment only.

1.04 At messenger dead ends, including false dead ends, and at certain corner poles, double guard arms are required as covered in Part 3 of this section.

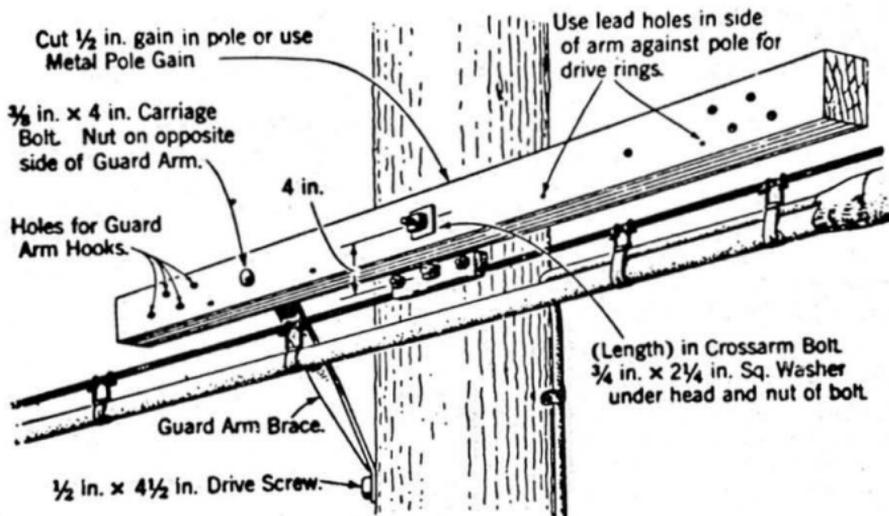
1.05 On stepped poles where it is necessary to install double guard arms and the pole steps will not be parallel with the arms, shift the pole steps in accordance with the instructions in the pole stepping practice to permit climbing past the guard arms with a minimum of interference.

1.06 At a corner where the pull is away from the pole and the need to employ a reinforcing strap prevents the proper installation of a guard arm, use reinforcing links in accordance with the instructions in Section G51.105.

1.07 At a corner where the pull is toward the pole, and the need to employ a guy or a reinforcing strap would prevent the proper installation of guard arms, provide a minimum clearance of 6 feet between the suspension strand and supply circuits supported above the strand, and omit the guard arm.

## 2. INSTALLING GUARD ARM

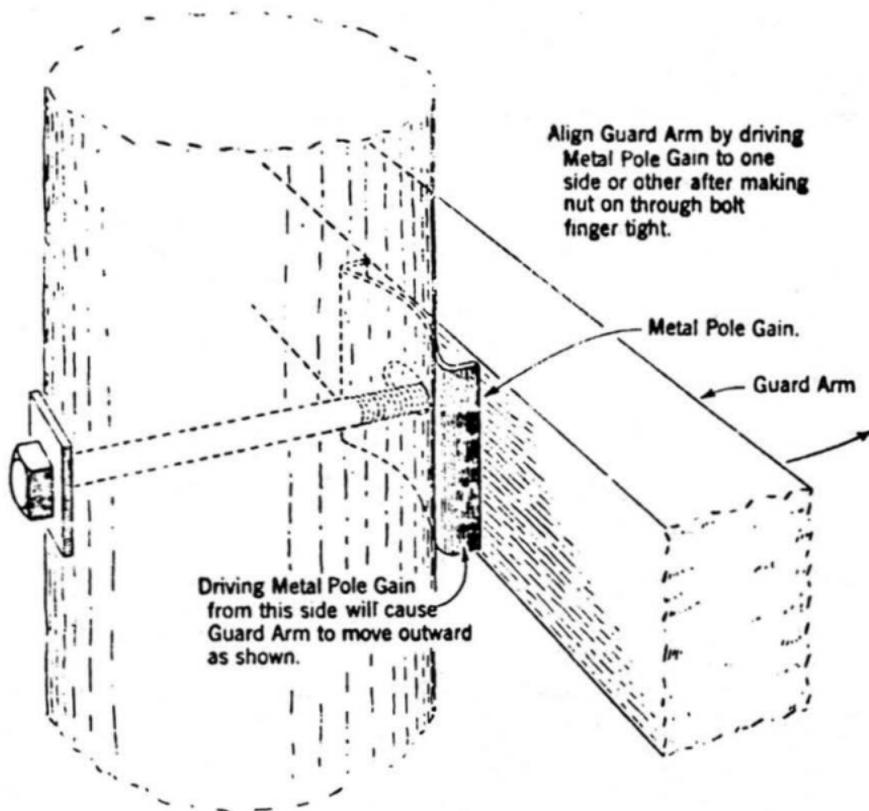
2.01 Install guard arm as shown below.



Note: In placing brace proceed as follows-

- (1) Fasten brace to Guard Arm.
- (2) Bend to approximately middle of face or back of pole.
- (3) Fasten to pole.

(a) A metal pole gain installed as covered below may be used to avoid the necessity for cutting a gain in the pole.



### 3. ARRANGEMENT OF GUARD ARMS

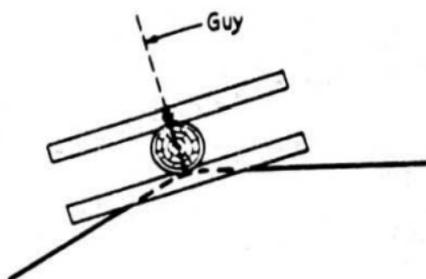
3.01 On straight line poles (other than at dead ends or false dead ends) or where the pull on the pole is less than 10 feet, place the guard arm parallel to the cable, or essentially so, in order that equal guarding shall be obtained in both directions from the pole.

NOTE: Place double guard arms at corners where the pull is away from the corner and a guy is attached to the through bolt and extends horizontally, as when attached to another pole or a guy stub.

3.02 At corners where the pull is more than 10 feet, place guard arms as covered in the following:

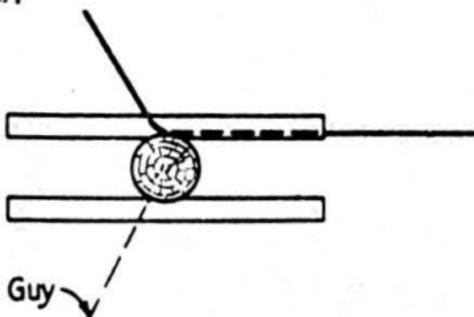
(a) Corner Poles - Pull Away from the Pole

- (1) Where the pull on the pole is between 10 feet and 38 feet.



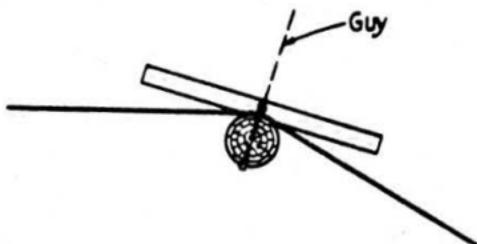
NOTE: The guard arm is required on the side of the pole opposite to that on which the messenger is attached, only when the guy is attached to the through bolt and extends horizontally, as when attached to another pole or a guy stub.

- (2) Where the pull on the pole is more than 38 feet.

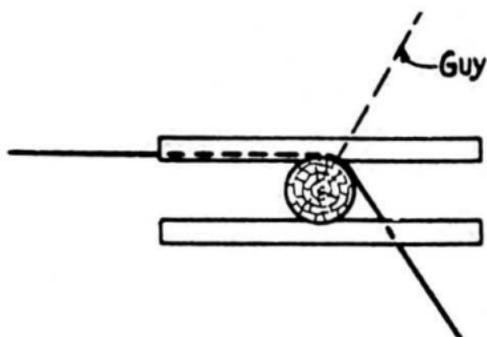


(b) Corner Poles - Pull Against the Pole

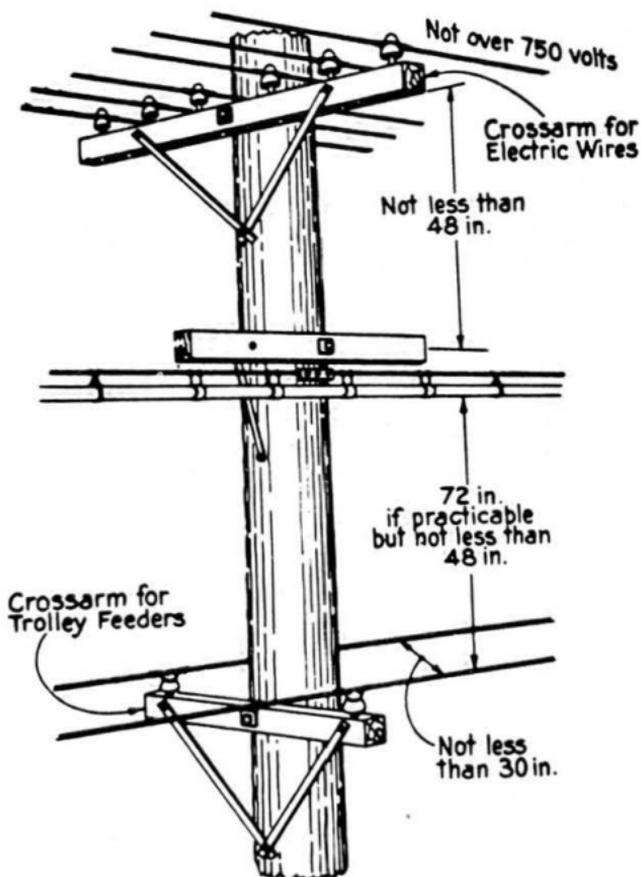
- (1) Where the pull on the pole is between 10 feet and 38 feet.



- (2) Where the pull on the pole is more than 38 feet.

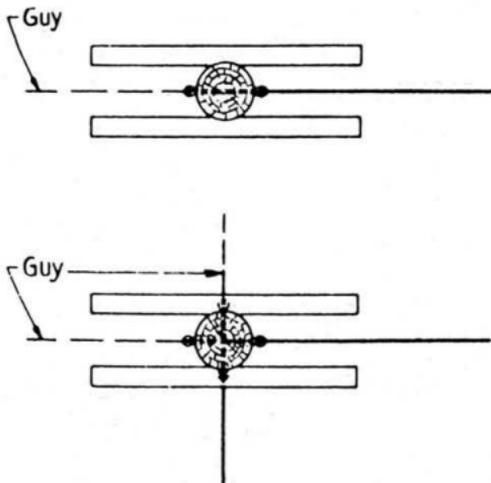


3.03 Where conditions are such that cable is to be placed between trolley feeders and 0 to 750 volt supply circuits, and a 6-foot clearance cannot be obtained both above and below the cable, provide the greater clearance between the cable and the trolley feeder and place a guard arm over the cable as shown below:



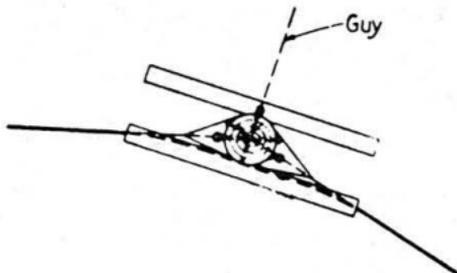
3.04 Where strand dead ends are made on joint poles less than 6 feet below open wire 0 to 750 volt supply circuits, place guard arms as follows:

- (a) At strand dead ends including slack span dead ends.

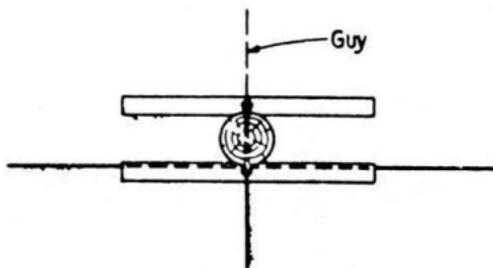


NOTE: Where the strand is dead ended below double open wire crossarms, no additional guarding of the strand is required.

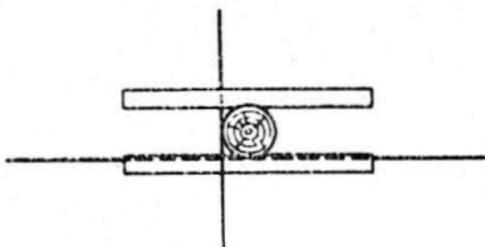
- (b) At angles or corners.



- (c) Branch strand termination.



3.05 Where a main and a branch (or other) cable are attached to a junction pole, place guard arms as shown below.



3.06 Where a false dead end is placed on the suspension strand, place the guard arms as follows:



NOTE: Where the false dead end is made by the eyebolt method place the guard arm through bolt in the pole about one inch above the dead end eyebolt.