

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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GUYING
REMOVAL OF GUYS

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1. GENERAL

1.01 This section sets forth methods and safety precautions to be followed in the removal of guys and associated materials. It has been revised to include the use of the B Support Ring in removal of overhead guys.

1.02 Examples given in this practice refer to guys using 3-bolt clamps. For guys attached by other means such as the strandwise, refer to those sections covering the other means of attachment.

2. PRECAUTIONS

2.01 Before climbing or working on poles which are not definitely known to be strong enough to withstand additional loads to which they may be subjected, precautions should be taken as covered in the group of sections on "Safeguards To Be Taken Before Climbing Poles."

2.02 Observe the instructions and precautions contained in the section on "Observations and Tests To Be Made Before Climbing or Working at Joint Use Poles."

2.03 Exercise caution when removing guys over highways, streets or other thoroughfares where pedestrian or vehicular traffic is involved. If necessary, station flagmen in addition to the standard warning devices to warn oncoming traffic as covered in the sections on "Guarding Work Areas."

2.04 Where guys to be removed extend through working open wire circuits, it is essential that work be performed so as to minimize the possibility of service interruptions due to contacts with the guy.

2.05 Do not cut guy strand or remove clamps without first taking precautionary measures to prevent loose ends from springing back and causing possible eye injuries, body punctures or skin abrasions. On jointly used poles, secure the ends of guys to prevent them from flipping up and contacting power wires or other equipment.

2.06 Do not cut guy strand while it is under tension. Use a chain hoist or other suitable method to relieve the guy of all strain before cutting the strand.

2.07 If practicable, arrange with the Power Company to shut off current during the removal of guys crossing over trolley feeders and power primary conductors of less than 5,000 volts to ground. As an added safety measure in such cases, arrange, if practicable, to have the Power Company linemen place ground straps on the power wires within sight of removal operations.

2.08 When a guy is to be removed from a location **where it may come in contact with power conductors of over 5,000 volts to ground**, arrangements should be made so that removal work is done by the company operating the power lines.

2.09 Manila rope used in removal work, where there is a possibility of electrical contact, must be dry and free from metallic strands.

2.10 **Rubber gloves shall be worn at all times by all workmen engaged in detaching and withdrawing guys from crossing where the rope or guy strand may come in contact with power wires of any voltage.**

3. REMOVAL OF GUYS

Guys Which Do Not Cross Over Power Conductors

3.01 In general, an anchor guy should be removed as follows:

- (1) Release tension at the anchor rod or lower end of guy by means of strand pullers and chain hoist or a set of blocks.
- (2) Loosen and remove guy clamp.
- (3) Slack off with chain hoist until all tension is released from the guy.

(4) Remove chain hoist and strand pullers, then remove tail of guy from guy rod.

(5) Remove clamp or eye bolt at pole end of guy and lower guy to the ground. If the pole to which the guy is attached is to be removed, leave the pole end fastened where conditions permit, until the pole is on the ground.

3.02 Where conditions permit, a pole-to-pole or pole-to-stub guy should be removed in a somewhat similar manner by releasing tension, removing clamps or eye bolts at both ends and lowering it to the ground in the span.

3.03 Where guys cross over or extend through working open wire communication circuits, split rubber hoses or the equivalent may be placed on the wire for protection against accidental contacts from the guy strand.

Guys Which Cross Over Power Conductors

3.04 Guys crossing over power or trolley wires should be removed as set forth below, care being taken at all times to prevent contact between the guy and power wires.

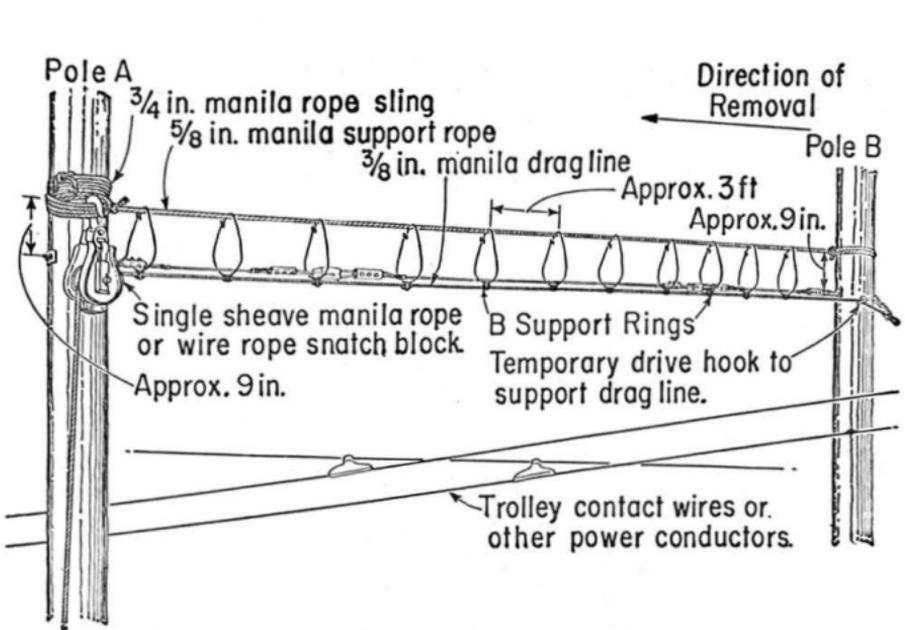
3.05 In the following instructions and illustrations, the direction of removal of the guy has been chosen from Pole B to Pole A. Select the direction of removal for each particular situation with a view toward obtaining the most safe and satisfactory working conditions. The successive steps to be followed in the guy removal are as follows:

(1) Place single sheave manila or wire rope snatch block⁷ on Pole A with the top of the sheave just above the level of the guy. At Pole B place a drive hook at this same relative position.

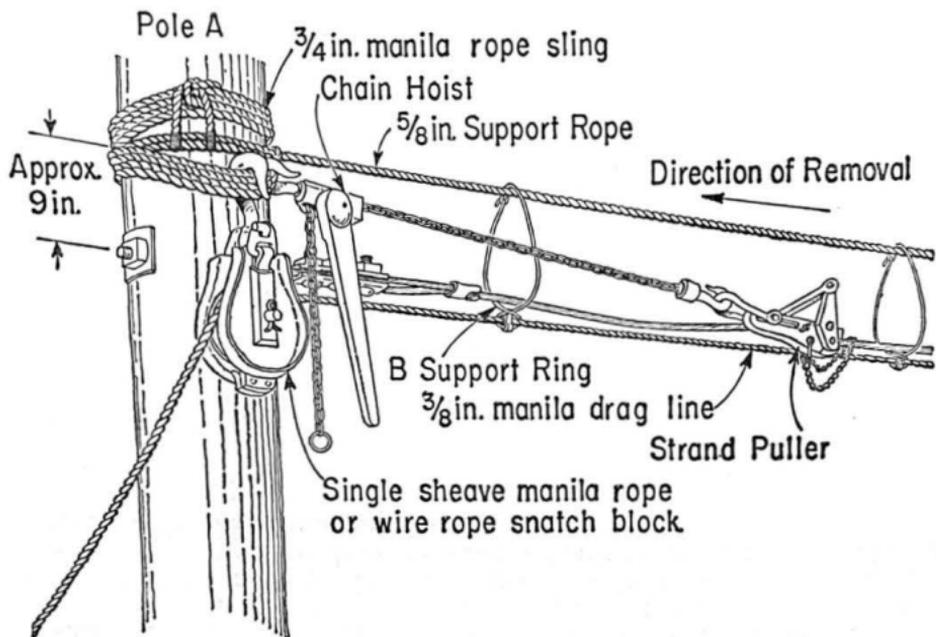
(2) Between Poles A and B place a 3/8-inch manila rope to be used as a ring rope and drag line. Place in snatch block and over drive hook. The length of this rope should be equal to twice the length of the crossing plus enough to reach the ground at Pole B.

(3) Use the 3/8-inch drag rope to pull in a 5/8-inch manila rope to be used as a support rope. Place the support rope approximately 9 inches above the guy and sufficiently taut so that it will not sag onto the power conductors when weight of guy, drag rope and B Support Rings is added.

(4) Store excess of the 3/8-inch rope at Pole A. As a workman on the ground at Pole B pulls this drag rope across, a workman on Pole A will equip it with B Support Rings about 3 feet apart and encircling the guy and support rope. (See section on "B Support Ring.") ←

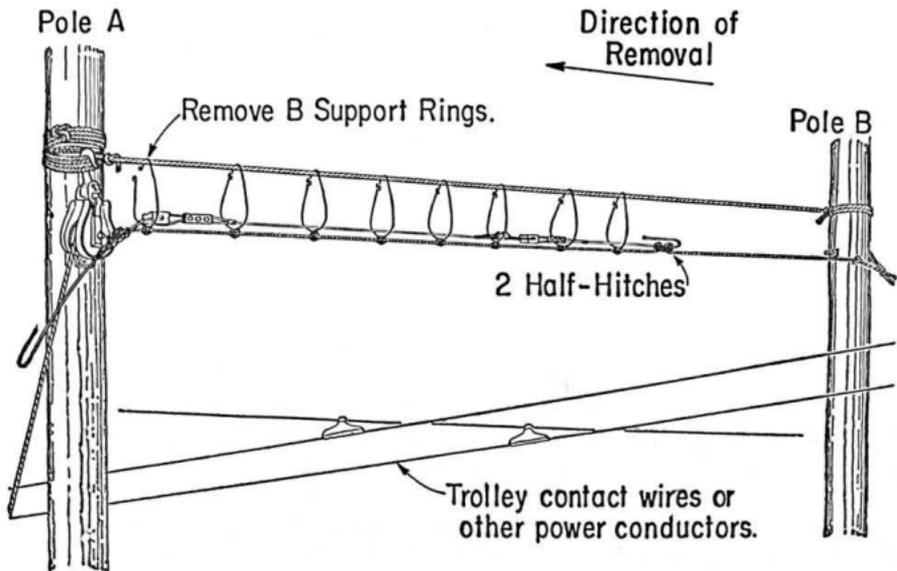


(5) At Pole A, place strand puller and chain hoist. Pull up guy with hoist to release tension at dead end as illustrated. Detach guy from pole and slack off with hoist until guy rests in B Support Rings. While doing this observe that the support rope is taut enough to maintain clearance between guy and power conductors. Remove hoist and strand puller.



(6) Detach guy from Pole B and with the ring and drag rope throw two half hitches around guy strand near the end as illustrated in Step (7).

(7) From the ground at Pole A, pull on the ring and drag rope to slide the rings along the support rope, holding sufficient tension at Pole B to prevent rings pulling together and the guy sagging onto power wires. As the rings reach the snatch block, a workman stationed on Pole A should remove them, allowing the guy to pass freely below the block. Continue in this manner until guy has been completely removed from the crossing span.



4. DISPOSAL OF GUY STRAND AND ASSOCIATED MATERIAL

4.01 Guy strand and associated material should be disposed of in accordance with local instructions depending upon whether it is to be junked or reused. If it is disposed of along the line, it should be done in such a manner as not to adversely affect public relations or safety.