

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G21.140.2
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AT&T Co Standard

ERECTING POLES AND STUBS
USE OF THE POLE DERRICK

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1. GENERAL

- 1.01 This practice describes the more common uses of the pole derrick in the erection of poles and stubs.
- 1.02 The use of the pole derrick will generally be the most convenient and safest method of erecting poles.

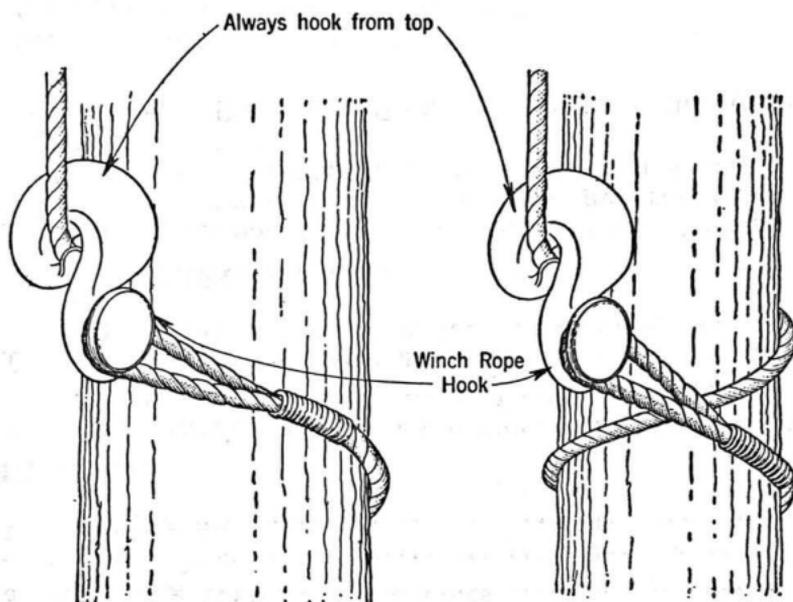
2. SAFETY PRECAUTIONS

2.01 Employees operating or working with pole derricks shall be familiar with the precautions and general instructions outlined in the following Outside Plant Construction and Maintenance Practices:

- (a) Erecting Poles and Stubs, General (of this group of practices).
- (b) Pole Derricks, General.
- (c) Pole Derricks (type being used).
- (d) Wire Rope Slings.

3. ATTACHING WINCH LINE TO POLES

3.01 A winch line can be attached to a pole by placing it around the pole and placing the winch rope hook over the line. The hook should always be hooked down over the line as shown in the following figure so that it will not become disengaged by its own weight should the line become slack. The winch line should be wrapped around smaller poles twice so that the tail of the eye will not come into the hook.



3.02 The wire rope sling as covered in the section "Wire Rope Slings" may be used to attach the winch line to the pole.

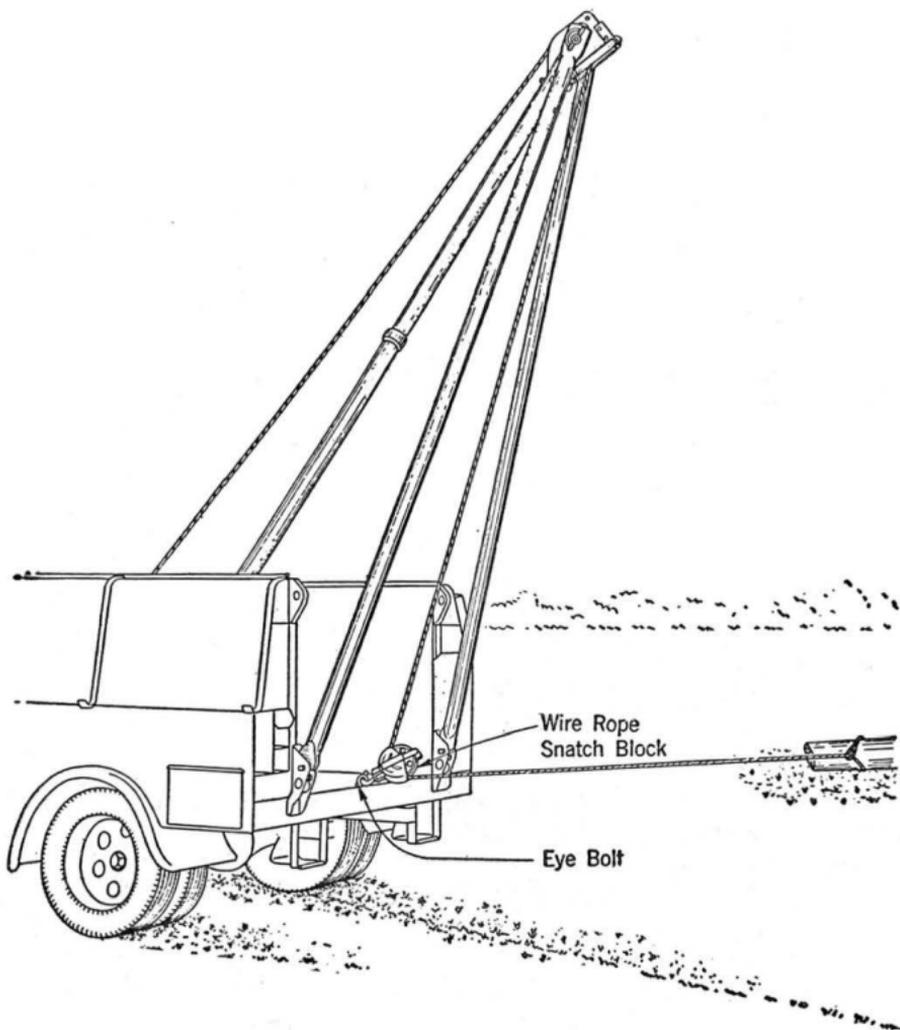
4. SNAKING POLES

4.01 When delivering poles to a job they should be distributed to points as close to the final placing location as practicable.

4.02 When snaking poles with the earth boring machine derrick the winch line shall be run from the derrick head through a snatch block attached at the rear of the truck.

4.03 When snaking poles with trucks equipped with hydraulic derricks the winch line may be run directly from the derrick head regardless of the angle of pull providing the pull is not such that the truck will be overbalanced.

4.04 When snaking poles with derricks other than those mentioned in Paragraphs 4.02 and 4.03 the winch line may be run directly from the derrick head only if the pull is straight to the rear of the truck. When the direction of pull is at an angle the winch line shall be run from the derrick head through a snatch block attached at the rear of the truck.



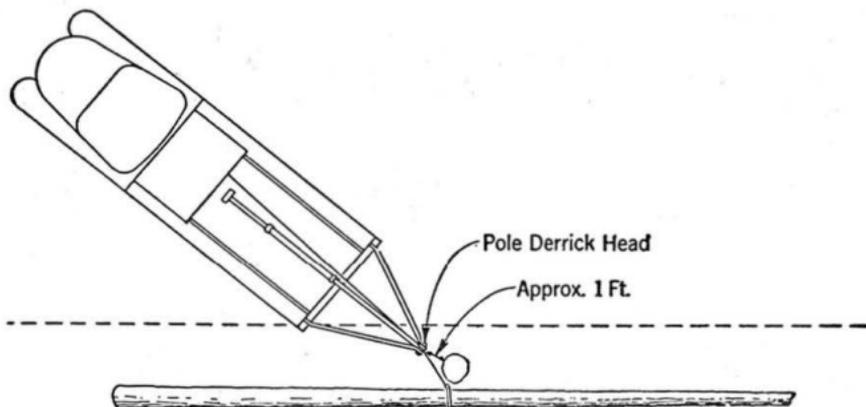
4.05 Where the pole is to be snaked only a short distance, it will often be found practicable to attach the winch line near the balance point of the pole so that when the pole is brought to the final location it may be erected without changing

the attachment to the pole. When necessary to snake the pole a considerable distance particularly over rough ground it is desirable to attach the winch line near the top so that the pole will offer minimum resistance to the drag over the ground.

5. PLACING POLES

5.01 The methods used in placing poles with the derrick are practically the same regardless of the type of derrick being used.

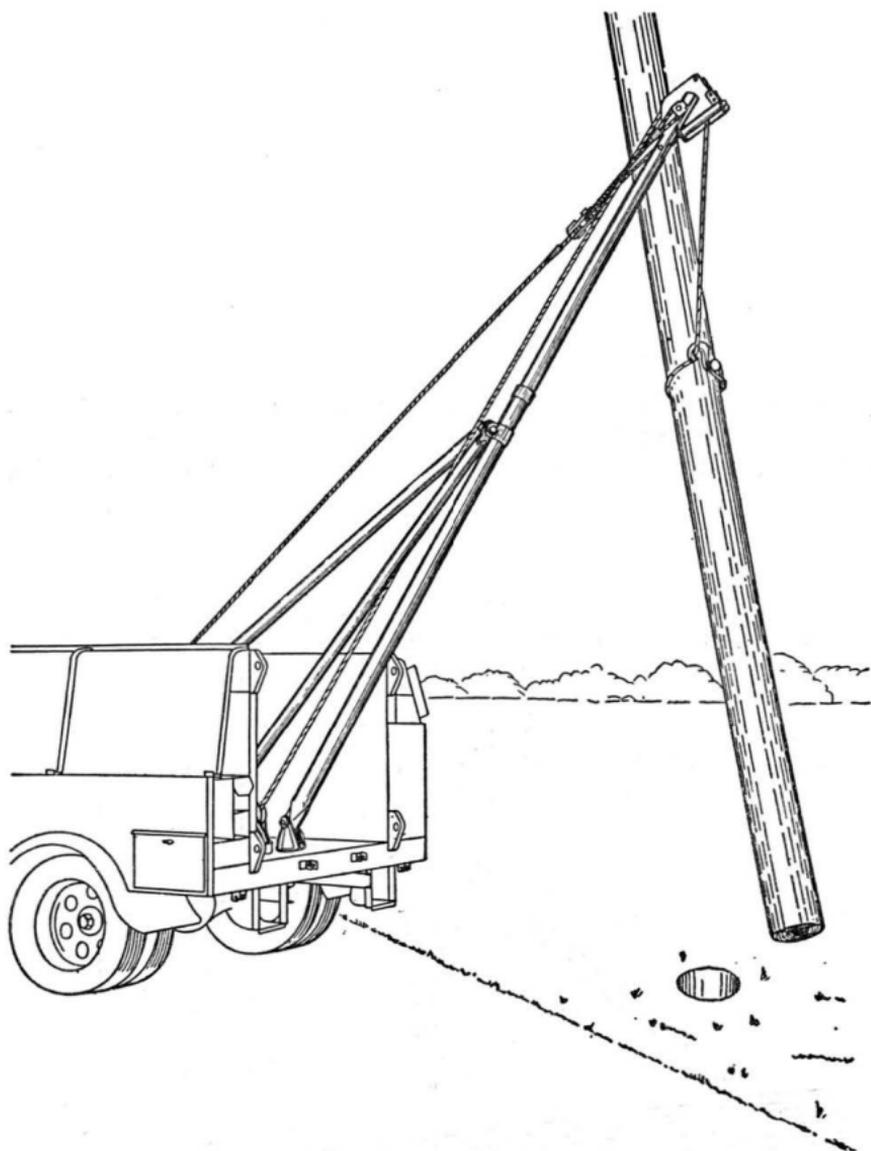
5.02 The truck should be positioned so that the derrick is properly located with respect to the hole which in general will be with the derrick head pointing to the hole and about one foot short of the hole location.



5.03 The angle at which the truck approaches the hole location will depend upon the location of ditches and highway shoulders and the traffic conditions involved. The truck should be located as nearly level as practicable and at a point where interference to traffic will be a minimum.

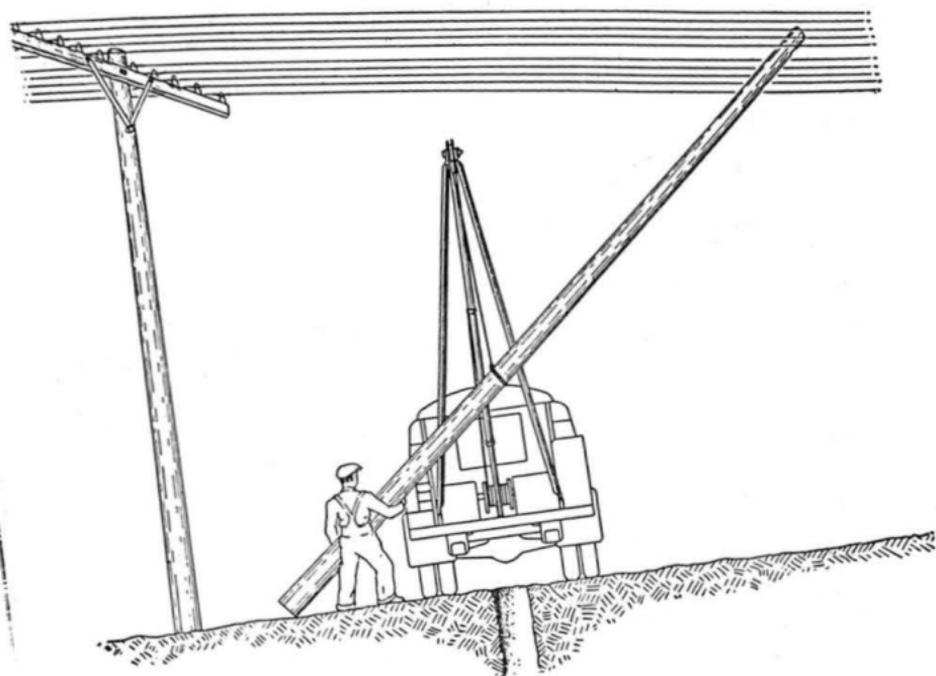
5.04 If the lowest wire or cable attachment on the pole line is of sufficient height above the ground to clear the derrick, the derrick should be used in the truck position for placing a pole in an existing line. For the lower leads the derrick shall never be operated beyond the maximum working angle specified for its type. This condition can frequently be overcome by telescoping the derrick or by using it in the ground position.

5.05 The winch line shall be attached to the pole at a point slightly above the balance point of the pole so that it is slightly butt heavy. In general, this point is a few feet below the midpoint of the pole.



5.06 The butt of the pole should be controlled manually while the pole is being slowly raised. Care should be taken that the pole does not make any quick swings or bump against the truck body or derrick. Where the pole is being placed in an existing lead, the top should be guided carefully to avoid service interference on wire circuits or damage to cables. If there is a possibility of the pole coming in contact

With any electric supply conductors the work should be done in accordance with the practice "Placing or Removing Poles Near Electric Wires."



5.07 If it is difficult for a man at the butt of the pole to properly guide the top, the use of pike poles or temporary rope guys to assist in guiding the top may be necessary.