

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G33.120.2
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AT&T Co Standard

O CARRIER TELEPHONE SYSTEMS

POLE MOUNTED EQUIPMENT CABINETS

TELEPHONE AND POWER WIRING

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1. GENERAL

1.01 This section covers the installation of telephone cross-connecting wires and power supply conductors at pole mounted O carrier repeater cabinets. It also includes information concerning the use of metallic conduit and a recommended arrangement for grounding the telephone and power installations.

1.02 The repeater and auxiliary power cabinets have knock-out blanks in the bottom of the cabinet which must be removed to provide entrance holes for telephone and supply conductors or for metallic conduit in which such conductors may be placed. The size and arrangements of the knock-out blanks are described in the Specifications covering the design of the cabinets.

1.03 The arrangement of the telephone and supply conductors, conduit, cabinets, etc., should conform to local requirements and practices. Clearance between telephone and supply conductors should be provided in accordance with instructions contained in other sections of the Practices.

2. INSTALLATION OF TELEPHONE CROSS-CONNECTIONS

2.01 The open wire circuits are terminated in line filters mounted on the crossarm as described in another section of the Practices. B Block Wire should be used to cross-connect between the line filters and repeater apparatus in the pole mounted equipment cabinet.

2.02 Metallic conduit should be placed to protect the B Block Wire from damage. It should be placed between all cabinets and from the repeater cabinet up the pole to within approximately 12 inches of the bottom crossarm. A service head should be placed at the top end of the conduit run from the repeater cabinet. Junction boxes may be placed in the conduit as required to simplify the placing of the B Block Wire or supply conductors between cabinets. The size and type of conduit to be placed and its arrangement and method of attachment to the pole should be covered in the detail plans.

2.03 Pull as many lengths of B Block Wire into the conduit as specified on the detail plans. Each length of B Block Wire should be long enough to leave a three foot coil in the cabinet and to reach the line filters to which it connects.

3. POWER WIRING AT POLE MOUNTED CABINETS

3.01 The repeater equipment requires a 115-volt, 60-cycle power supply for its operation. Arrangements should be made with the power company to provide secondary service at the pole mounted cabinet installation.

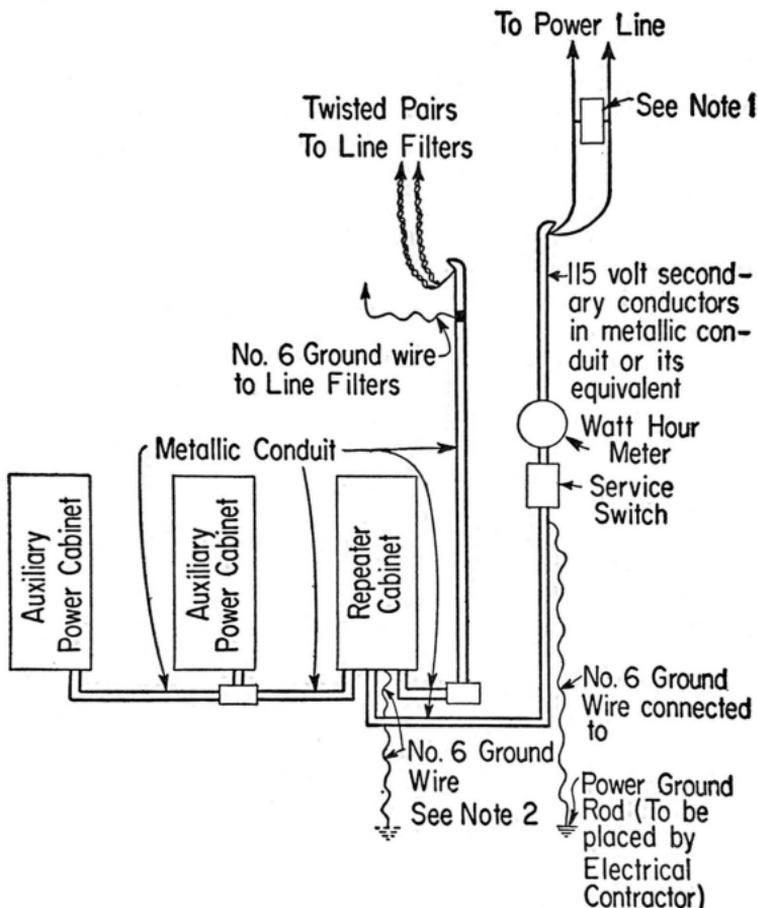
3.02 The power supply should be installed by an electrical contractor or other qualified workman. Power conductors in metallic conduit or their equivalent may be used for the vertical run on the pole and into the cabinet or between the auxiliary power cabinet and repeater cabinet.

3.03 Power conductors in metallic conduit or their equivalent should extend from the power company's space on the pole into the repeater equipment cabinet. Power leads between the auxiliary power cabinets and into the repeater cabinet should be installed in accordance with the detail plans.

4. PROTECTIVE GROUNDING ARRANGEMENT

4.01 The power supply conduits and grounded conductors and the telephone conduits and cabinets should be grounded as indicated in the sketch in Paragraph 4.02.

4.02 The grounding arrangement as shown in the following illustrations may be used at pole mounted cabinet installations. Any modification of this arrangement should be covered in the detail plans.



Note 1-Pellet type Lightning arrester (G.E. No. 9LA15A4)

Note 2- This ground to be placed at least six feet from power ground rod.

4.03 Connections of conduit to cabinets and through boxes and fittings shall be in firm metallic contact to insure electrical continuity of grounding path.