

CABLE PROTECTION

NOTES CONCERNING THIS ADDENDUM

This Addendum supplements Section G10.340 and has been reissued to provide instructions for the use of protector blocks on circuits in underground cables serving C.A.A. Range Stations. The information contained in Issue A of this Addendum is also included.

The cross-reference "See Addendum" should be written in Section G10.340 at Paragraph 1.04 which is supplemented and at the notes under the diagrams in Paragraphs 4.01, 4.02, 7.01, and 11.01 and at Paragraph 1.05 which are replaced.

1. GENERAL

1.04 Gauge of Largest Conductor in Underground Run

Minimum Length of Underground Cable From Junction to Nearest Central Office

22 Gauge

1 Mile

1.05 The purpose of open space cutouts or protector blocks specified by these instructions at junctions of aerial wires and cable is to protect the cable against lightning damage at such points. In this area, protector blocks are not required at the junctions of open wire and cable on exchange lines except in those few sections where experience has shown that lightning is prevalent or where such protection is specified in the detail plans. For example, the Imperial Valley, Mojave Desert and mountain sections are regions where protector blocks should be provided on exchange lines, since in these regions lightning is frequently experienced.

4. UNDERGROUND OR BURIED CABLE TERMINATING AT A CENTRAL OFFICE AND EXTENDED BY LINE OR DROP WIRES

4.01, 4.02, 7.01, and 11.01 Substitute the following note for the notes which appear below the diagrams in these paragraphs:

Note: Install protector blocks as follows unless otherwise specified.

(a) On all cables except intercity toll cables, place protector blocks on all wires at a given terminal if one or more lines is over 1/2 mile in length in areas where lightning is prevalent, or where other lines entering the cable at the same point require protection.

(b) On intercity toll cables (or on sections of cable which will ultimately form parts of such cable), place protector blocks on all wires regardless of length.

8. UNDERGROUND SERVICE CONNECTION FROM AN OPEN WIRE LINE TO SUBSCRIBER'S BUILDING

8.01 Where LR, JR, or TR cable is used to provide an underground service connection to a subscriber's residence or other building from an open wire line, in areas where lightning is prevalent, the cable at the junction with the open wire shall be protected with No. 26 and No. 30 protector blocks as shown in the diagram on Page 11 of Section G10.340. When the cable length is less than 300 feet or the length of the open wire is less than one-half mile, such protector blocks may be omitted unless otherwise specified. Due to a requirement of the Civil Aeronautics Administration, all facilities in underground service cables serving C.A.A. Range Stations shall be protected at the junction pole with protector blocks. ↙