

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G50.735.3
Issue 1, April, 1961
AT&T Co Standard

38-Y-B AND C CABLE CLOSURES

GASTIGHT CLOSURES

SHEATH PREPARATION AND

INSTALLATION

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1. INSTALLATION OF BASE

1.01 Approximately five feet of cable ends will be provided above the ground level. When the cable is looped, approximately six feet will be provided above the ground. Carefully remove the earth around the cables until a hole about 18 inches in diameter and 18 inches deep is prepared. Uncover the cables to the extent that their location and path is definitely established to insure against damage.

1.02 Mount the anchor posts to the sides of the base with the 2" x 3/8" bolts provided. Place the posts perpendicular to the cable path centered over the hole previously dug. Insert the cable ends through the base and by tapping the ends of the anchor posts alternately with a sledge, drive them into the ground until the post tops are at ground level as illustrated in

Fig. 1. If the ground is firm a block of hardwood should be used on the post tops to prevent them from being damaged. Also it may be necessary to remove the base and drive the anchor posts into the ground separately. The posts should be driven carefully in the final stages so that when the cover is placed, it will be in a straight, vertical position.

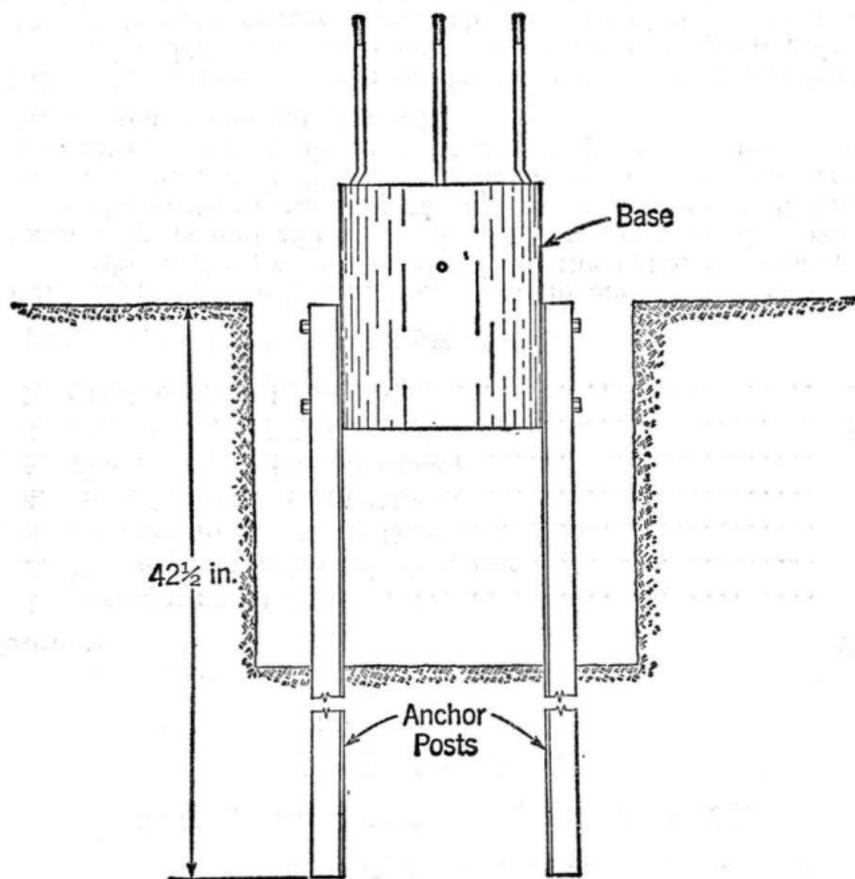


Fig. 1

2. PREPARATION OF SHEATH OPENING

2.01 Using the rods on the base assembly as a reference point place B Paper Tape markers on the sheath as illustrated in Fig. 2.

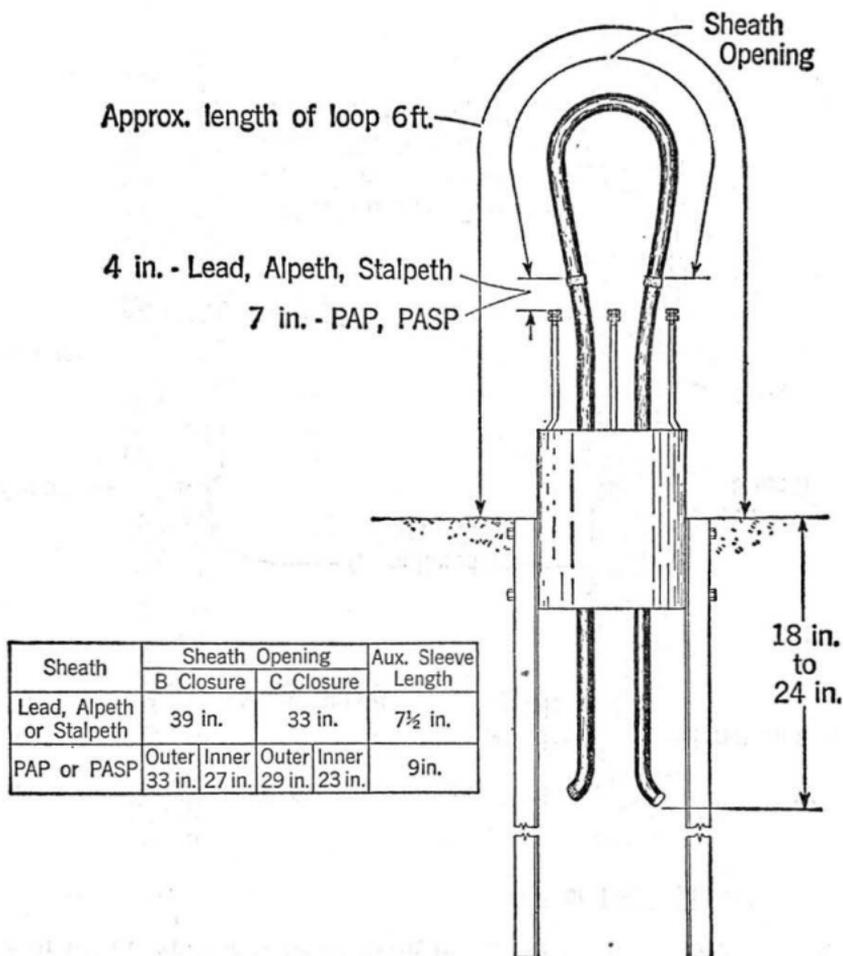


Fig. 2

2.02 Remove the sheath to the paper tape markers. On polyethylene sheath cable be careful not to damage the underlying metal jacket.

2.03 Place auxiliary sleeves on all polyethylene sheath cables. It may be desirable before starting this operation to unbolt the base from the anchor rods and place it to one side. This will allow more working space for putting on the auxiliary sleeves.

2.04 The auxiliary sleeves should be installed as illustrated in Fig. 3. The method of making each wrapped joint is covered in detail in other sections of the Bell System Practices. The practice numbers have been included in Fig. 3 for reference.

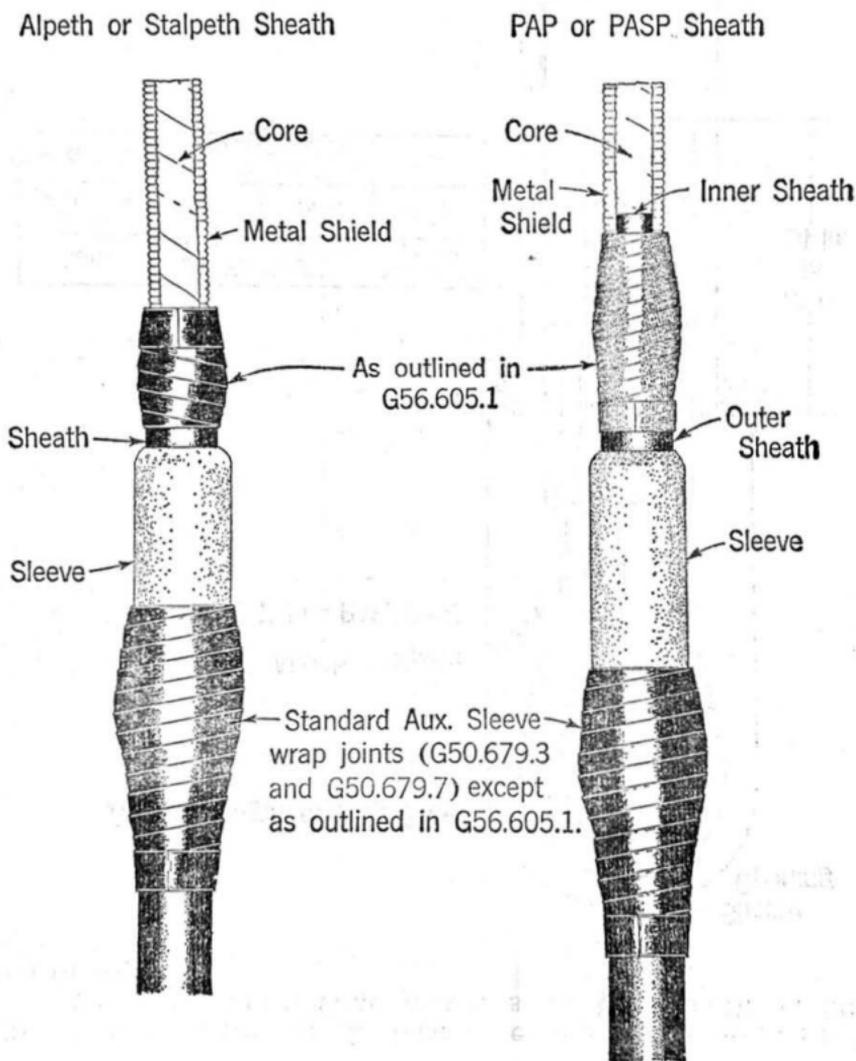


Fig. 3

3. PREPARATION OF LEAD DISC

3.01 Prepare a lead disc for the base using the rings and core plugs furnished in the B and C End Plate Molds. The core plugs shall be of a size slightly larger than the diameter of the auxiliary sleeve or lead sheath. The method of pouring the discs is covered in Section G50.625.5.

3.02 **Cable Ends**—The plugs shall be spaced toward the center of the disc as illustrated in Fig. 4. Leave maximum space between holes.

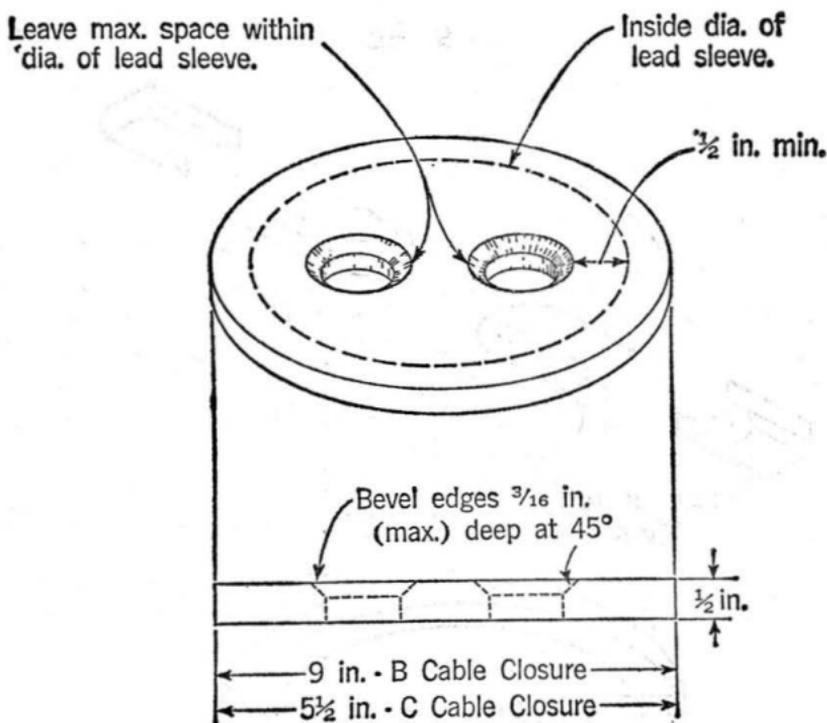


Fig. 4

3.03 **Cable Looped**—When the main cable is looped it will be necessary to open the sides of the disc as illustrated in Fig. 5. Prepare the disc as covered in Paragraph 3.01.

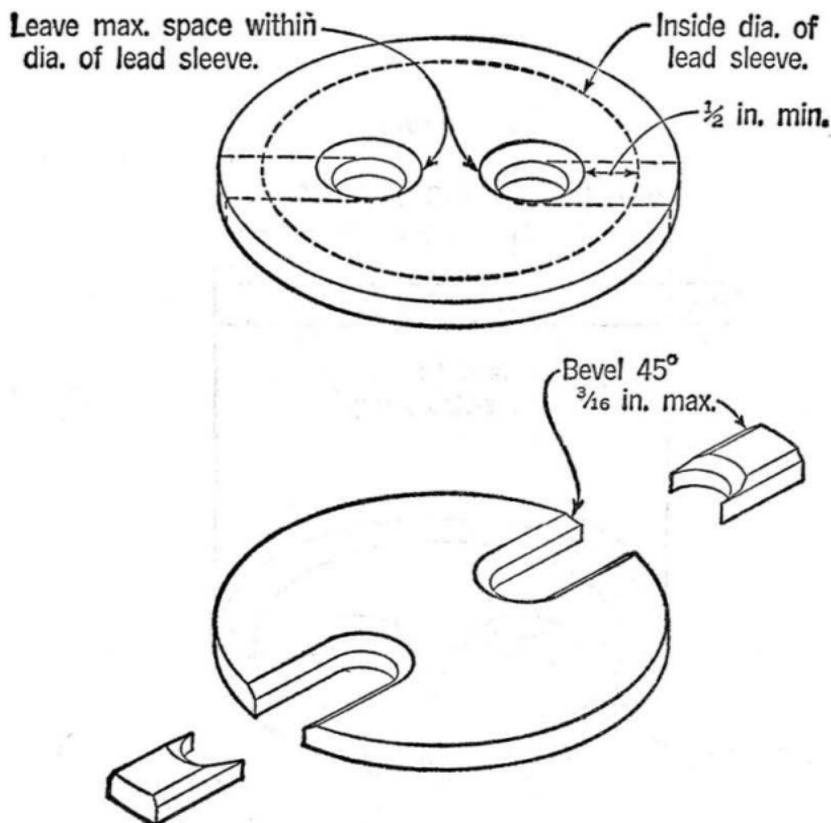


Fig. 5

4. INSTALLATION OF LEAD DISC

4.01 If the base was removed from the anchor posts in preceding operations replace it and tighten the bolts.

4.02 Position the cables in the disc and center it on top of the rods. Turn the three tinned nuts up till they are flush with the top of each rod and in contact with the bottom of the disc. Using a torch, solder the tinned nuts to the underside of the disc as shown in Fig. 6.

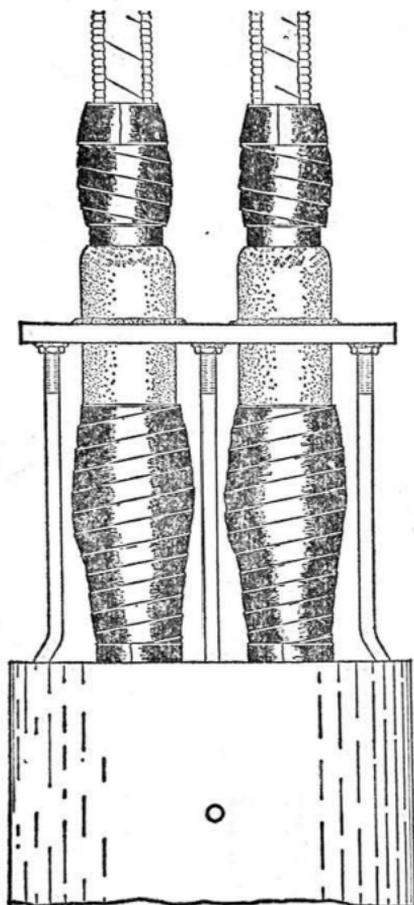


Fig. 6

4.03 Solder around the sheath or the auxiliary sleeve on the top of the disc as shown in Fig. 7. If split discs were used replace the cut-out portions and solder in position.

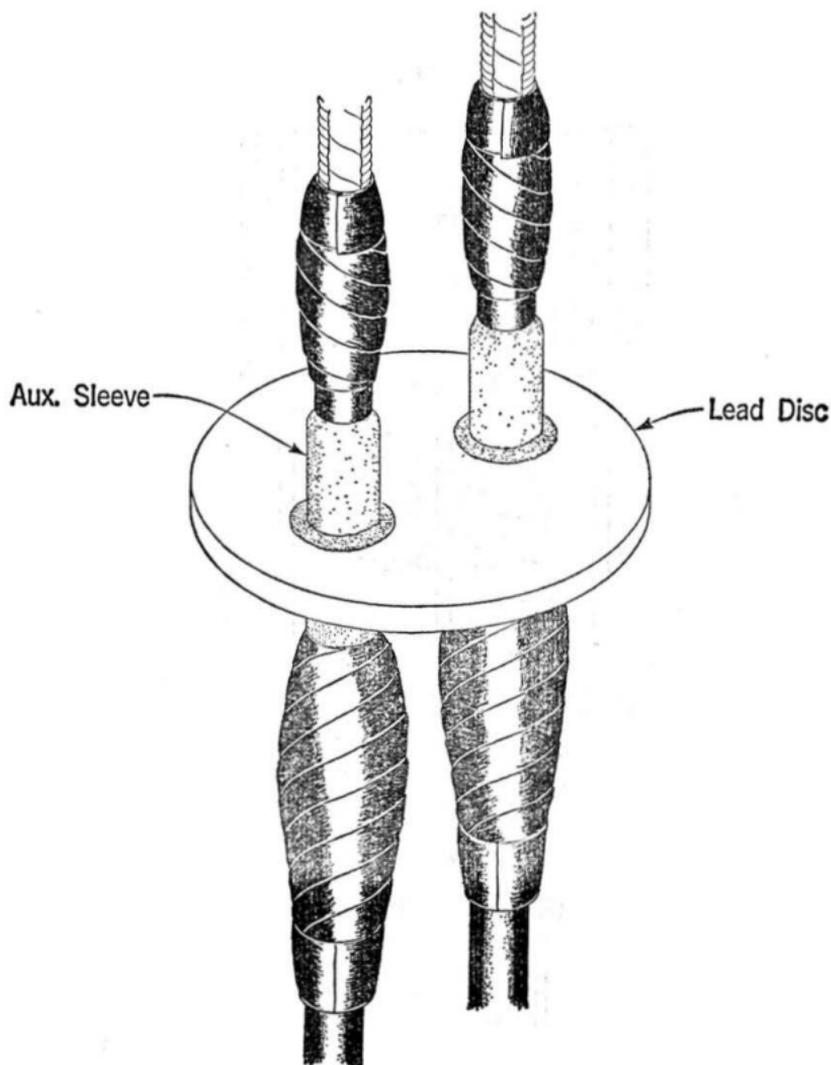
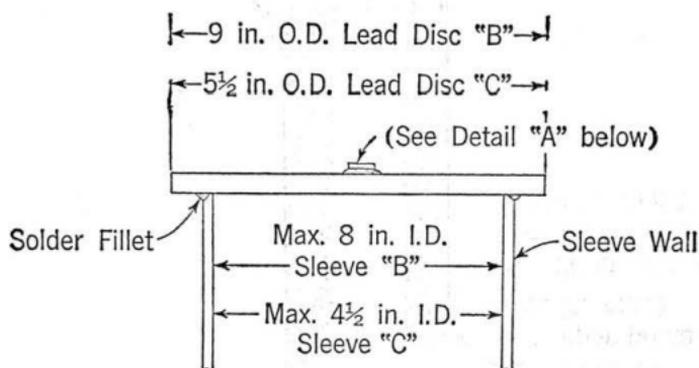


Fig. 7

4.04 Carefully restore the earth outside the base and tamp firmly. Backfill the inside of the base to approximately four (4) inches above the bottom. Fill the base to about one (1) inch from the top with crushed stone. Then make the splice as outlined in Section G50.735.4.

5. PREPARATION OF LEAD SLEEVE

5.01 On completion of the wire work prepare a lead sleeve having the minimum practical inside diameter. Maximum diameters for the B and C Cable Closures are given in Fig. 8. The lead sleeve length for the B Closure shall be 22 inches; the length of sleeve for the C Closure shall be 20 inches.



DETAIL "A"

* For "B" Closure only.

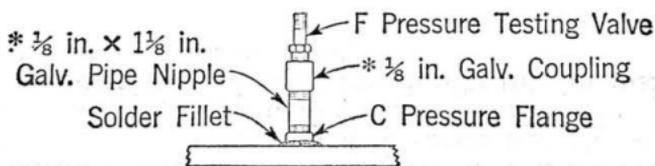


Fig. 8

5.02 Prepare a lead disc 1 inch larger in diameter than the inside diameter of the lead sleeve, center the disc over one end of the sleeve and solder in position using a continuous gastight seam.

5.03 If the cable is to be maintained under continuous gas pressure install the assembly illustrated in Fig. 8. **Note the extra components required for the assembly on the B Splice Closure.**

6. INSTALLATION OF LEAD SLEEVE

6.01 Place the prepared sleeve over the splice, center it on the bottom disc and solder with a continuous seam around the base of the sleeve. Then pressure test the soldered and exposed wrapped joints in the usual manner. Fig. 9 illustrates a completed splice and gives the significant dimensions of the components used in the assembly.

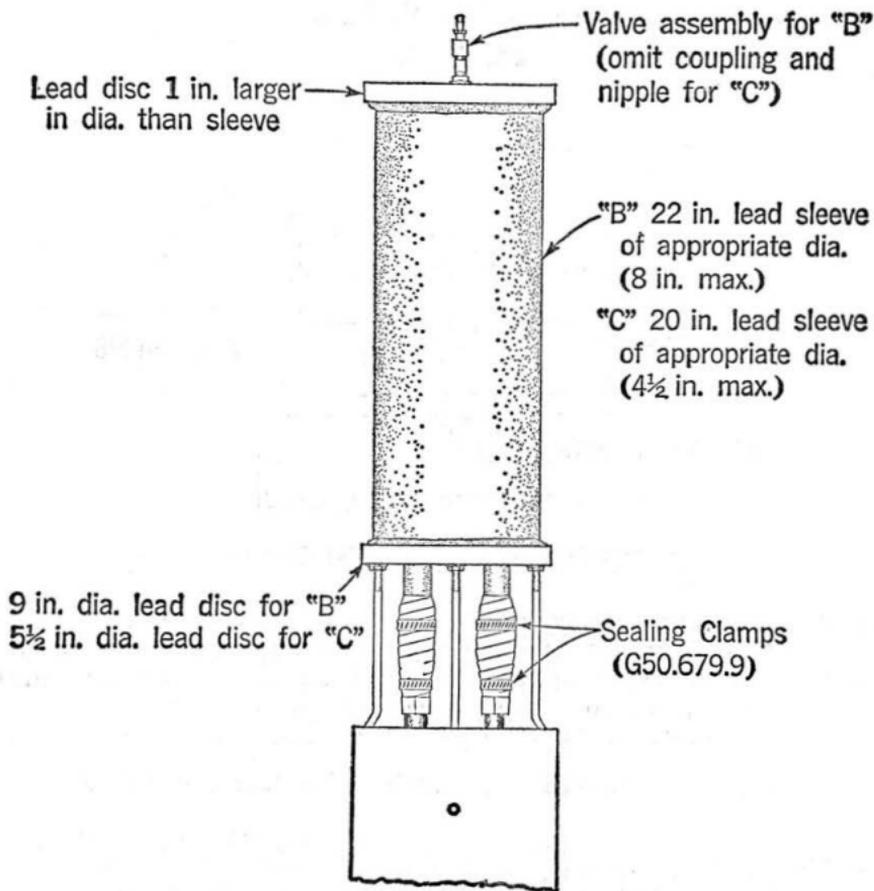


Fig. 9

Note: For re-entry the sleeve can be readily removed by heating the solder fillet at the junction of the bottom lead disc and the sleeve and scraping off the excess solder with a shave hook.

7. CLOSING COMPLETED SPLICE

7.01 Locate the cover on the supporting studs, turn to locking position and securely tighten hex-headed bolt using the tools provided with the B wrench kit.

7.02 On the B Cable Closure install a C Valve Housing over the pipe nipple on top of the cover **if the cable is to be maintained under continuous gas pressure.**

7.03 Fig. 10 illustrates installed B and C Cable Closures.

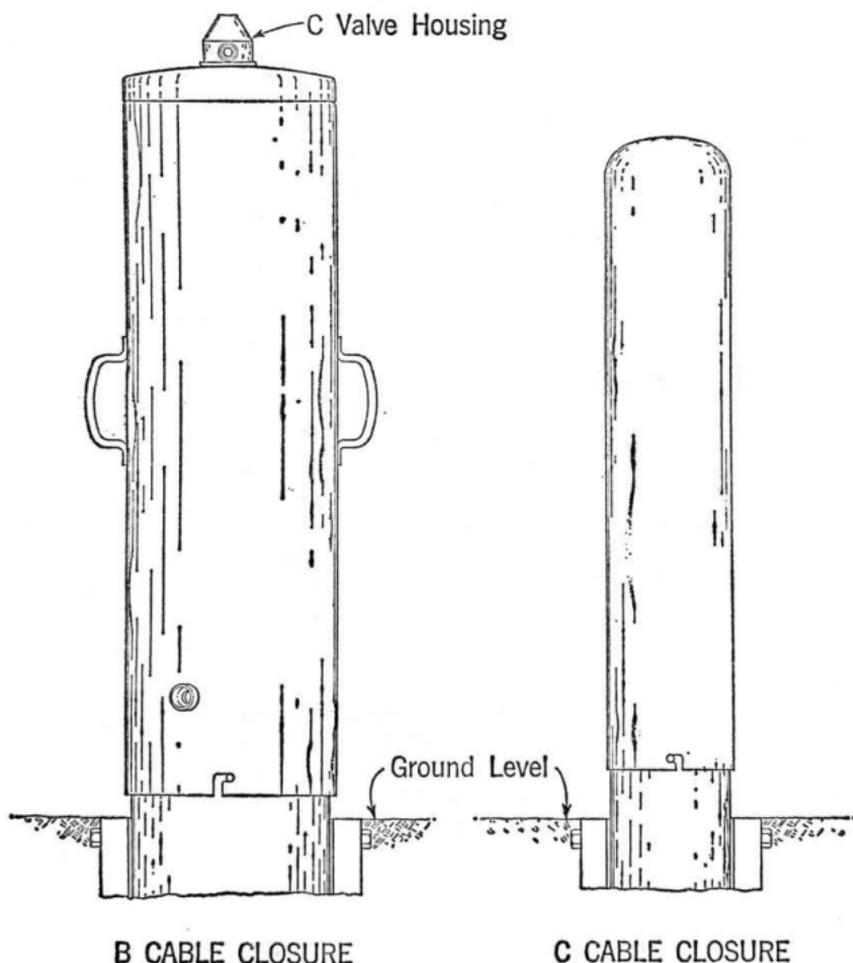


Fig. 10