

**BELL SYSTEM PRACTICES**  
**Outside Plant Construction**  
**and Maintenance**

**SECTION G86.100.1**  
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**AT&T Co Standard**

**MANHOLE SHIELDS**

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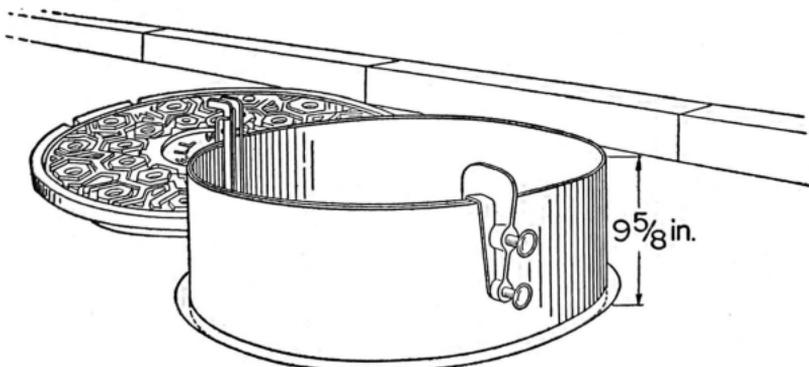
**1. GENERAL**

1.01 This section describes the **B and C Manhole Shields** and the **Adjustable Manhole Shield** used to keep surface water and dirt out of open manholes. The B and C Manhole Shields are currently being supplied; the Adjustable Manhole Shields is the superseded type, a large number of which are still in use.

1.02 This section is reissued to include the C Manhole Shield which is the same as the B Shield except that it has a highway yellow baked enamel finish. An alternative method of providing a seal between the shield and the manhole rim is also included. Issue 1 is replaced.

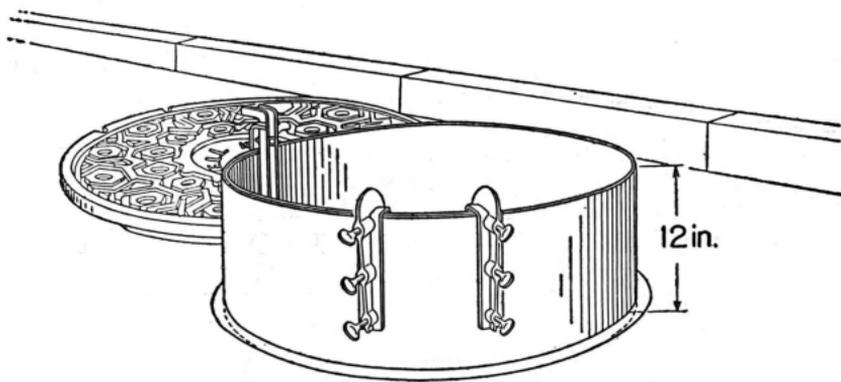
**2. B AND C MANHOLE SHIELDS**

2.01 The B and C Shields are made of aluminum. One end of the shield is equipped with a clamp. It is designed to fit circular manhole frames 24 to 36 inches in diameter. The ends of the shield overlap and the desired size is obtained by increasing or decreasing the amount of the overlap. The shield is held at the desired position by tightening the thumb screws in the clamp.



### 3. ADJUSTABLE MANHOLE SHIELD

3.01 The Adjustable Manhole Shield illustrated in the following sketch is painted red. One end of the shield is equipped with two clamps. The shield is designed to fit circular manhole frames 24 to 36 inches in diameter. The ends of the shield overlap and the desired size is obtained by increasing or decreasing the amount of the overlap. The shield is held at the desired position by tightening the thumb screws in the clamps.



### 4. USE

4.01 Adjust the shield so that it will rest in the seat of the manhole frame and then place it in position. When the shield is used to keep out water, seal the space between the shield and the frame with Duxseal. Form the Duxseal into a rope having a diameter about twice as large as the opening to be filled, wrap it around the base of the shield and press the Duxseal into the opening.

4.02 Before a sealed shield is lifted from the manhole frame, remove the Duxseal, knead it and place it in its original package or other suitable container to prevent gathering dirt or other foreign material. Duxseal will not harden and it can, therefore, be reused.

4.03 Commercially available calking guns filled with compound for waterproofing the joint between the shield and the manhole rim may also be used. The compound should be discarded when the manhole shield is removed.