

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

**SECTION G53.103.1**  
**Issue 1, May, 1952**  
**AT&T Co Standard**

## **BLOCK AND HOUSE CABLE**

### **MECHANICAL PROTECTION**

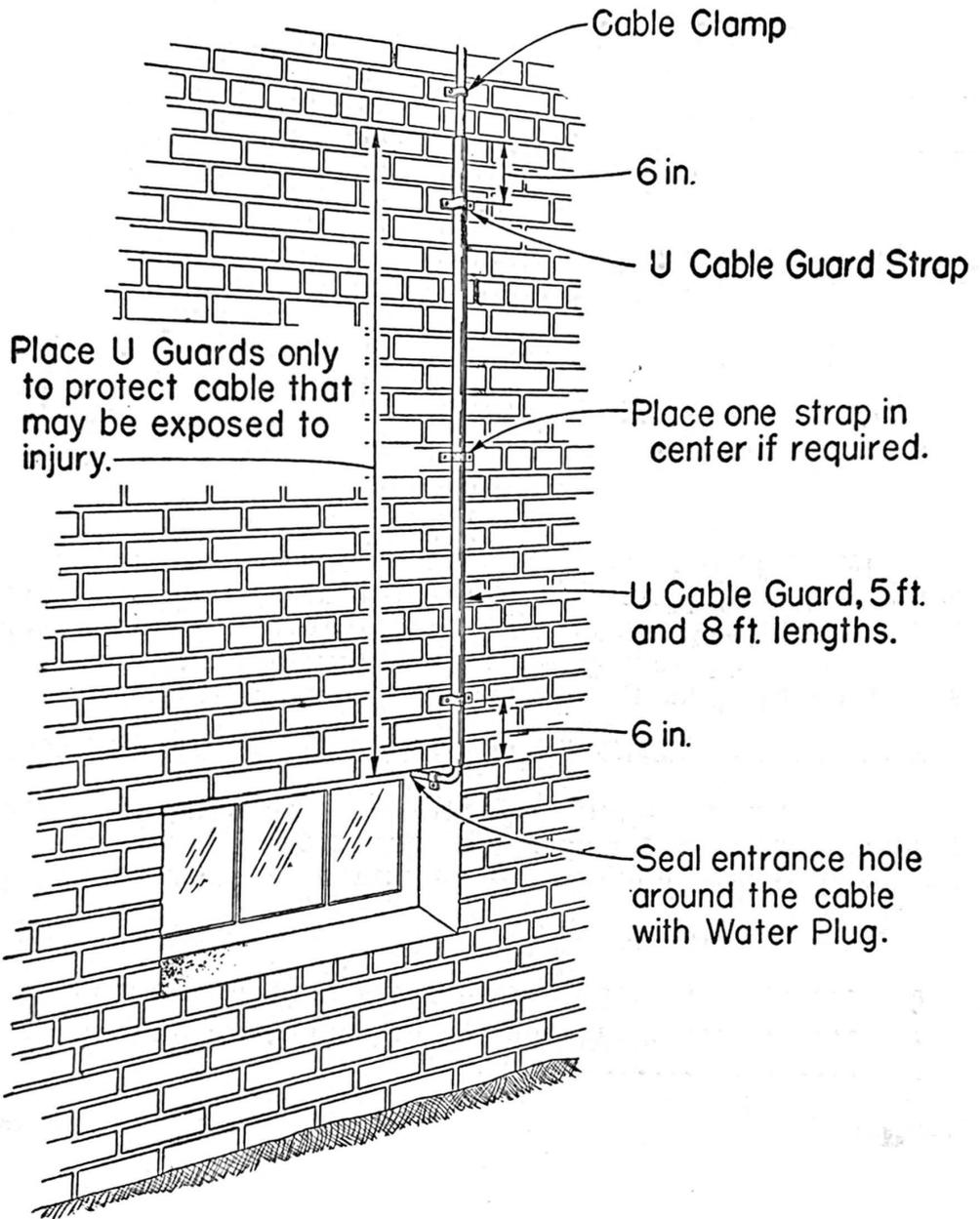
<b>Contents</b>	<b>Page</b>
1. General .....	1
2. Protection for Cables on Outside Walls .....	1
3. Protection for Cables Inside of Buildings.....	5

#### **1. GENERAL**

1.01 This section contains information regarding the mechanical protection of telephone cables installed inside of buildings and on outside building walls.

#### **2. PROTECTION FOR CABLES ON OUTSIDE WALLS**

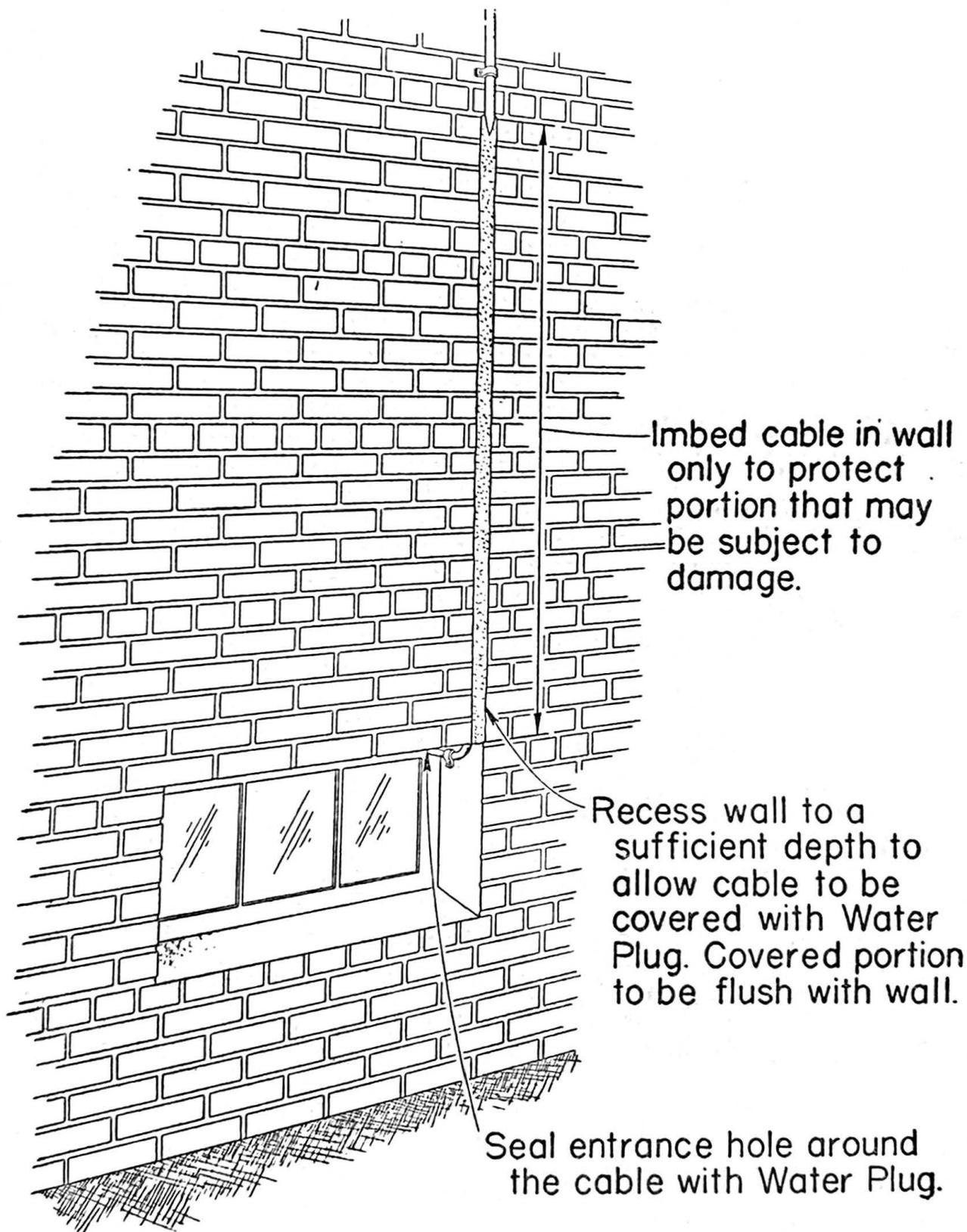
2.01 Cables attached to outside building walls in alleyways and similar locations where they may be damaged by vehicles, should be protected by encasing in U Cable Guards as shown on Page 2. In using the No. 1A-U Guard for this purpose, the flared end should be cut off by means of a hack saw.



2.02 The sizes of U Cable Guards available and the material for fastening them on walls is covered in the following table:

U Cable Guard	U Cable Guard Strap	Wood		Solid Masonry Hammer Drive Anchors	Hollow Tile Toggle Bolts
		Drive Screws	Wood Screws Galv.		
1A	1A	1/4" x 2-1/2"	1-1/2" x #14 R.H.	1/4" x 1-1/4"	1/4" x 4"
2	2	1/4" x 2-1/2"	1-1/2" x #14 R.H.	1/4" x 1-1/4"	1/4" x 4"
3	3	5/16" x 3"	1-1/2" x #14 R.H.	5/16" x 1-1/4"	1/4" x 4"

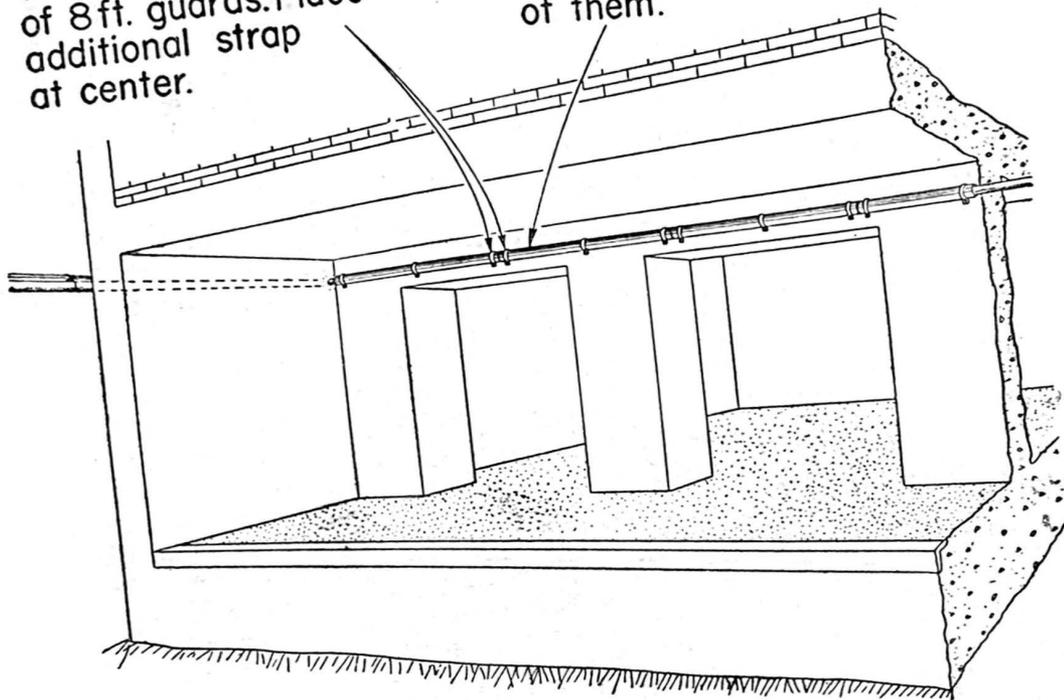
2.03 Where space restrictions will not allow the cable to project beyond the wall surface, it would be advisable to select a different route for the cable. If this is not practical, set the cable into the wall as shown below, provided permission is obtained from the property owner or his authorized agent. This method should be used only as a last resort.



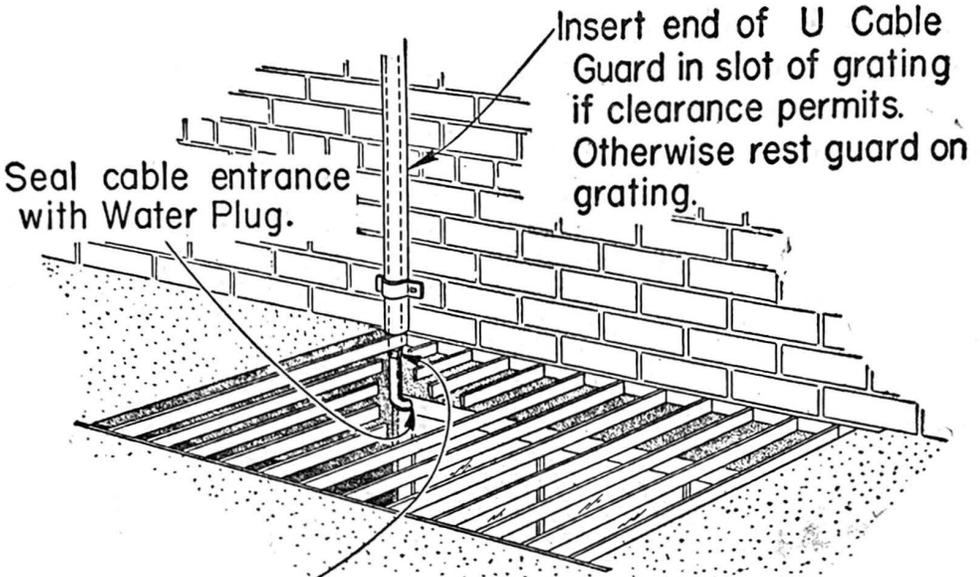
2.04 At loading platforms, near freight elevators or similar locations where damage to telephone cables may occur, both horizontal and vertical runs should be protected as indicated in the following illustration.

Place U Cable Guard Straps 6in. from end of 8ft. guards. Place additional strap at center.

U Cable Guards, 5ft. and 8ft. lengths or combination of them.



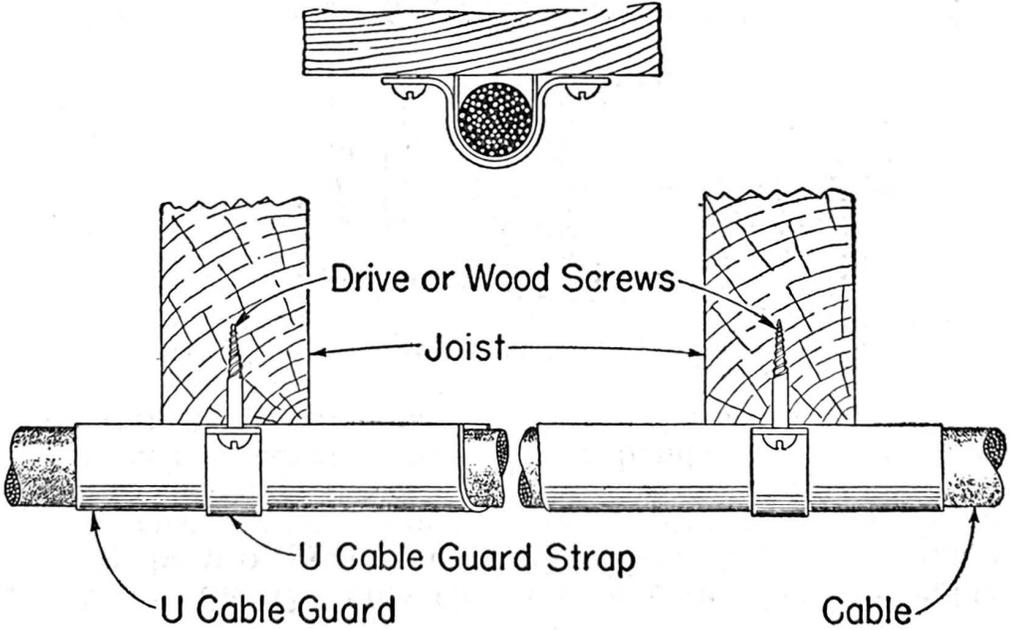
2.05 Cable runs through fixed gratings and then into basement windows should be protected as shown below.



Before placing U Cable Guard, protect cable with 2 layers of  $\frac{3}{4}$  in. Friction Tape. Extend Tape 3 in. above and below grating.

**3. PROTECTION FOR CABLES INSIDE OF BUILDINGS**

3.01 Use U Cable Guards to protect cables where they are placed in coal bins, near stair-runs and dumb-waiter shafts, at or near floors and other locations where cables would be subject to damage from heavy objects or persons. Place U Cable Guards on walls as shown in Paragraph 2.02.



3.02 Where the U Cable Guard is not suitable, the cable may be protected with Flexible Steel Tubing obtained locally. The size of tubing selected should provide ample clearance for it to slide over the cable easily. The use of this material may be especially advantageous where bends are required in the cable run, as shown below.

