

## GUYING

### SIDEWALK ANCHOR GUYS

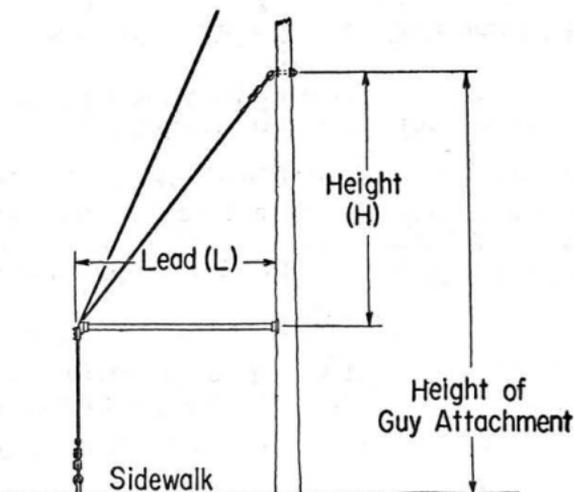
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#### 1. GENERAL

1.01 This section covers the installation of Sidewalk Anchor Guys and includes information on the modified method of assembling the B Sidewalk Guying Fixtures and B Sidewalk Guying Pipe by means of set screws instead of through bolts. It replaces Section G23.155, Issue 1.

1.02 Sidewalk anchor guys are used in guying over sidewalks or other pathways where right-of-way conditions do not permit placing an anchor guy with sufficient "Lead" to provide the required clearance above the sidewalk. Their specific use will generally be indicated on construction plans or by other means of instructions.

1.03 "Lead" and "Height," as applied to sidewalk anchors, are measured as illustrated below:



## 2. SIZE OF STRAND, PIPE, AND POLES

2.01 The size of STRAND required for a sidewalk anchor guy is **greater** than that required for an anchor guy of the usual type having the same  $\frac{\text{Lead}}{\text{Height}}$ .

2.02 In order to determine the size of STRAND for the sidewalk anchor guy, first determine (unless already indicated on the construction plans) the size of anchor guy that would be required if the usual type having the same  $\frac{\text{Lead}}{\text{Height}}$  were to be placed. The size of strand for the sidewalk anchor guy should then be selected in accordance with the following table:

Height of Guy Attachment	Size of Anchor Guy as Determined by Guy Rule				
	2.2M	6M	10M	12M	16M
	Size of Strand for Sidewalk Anchor Guy				
26 ft.	6M	10M	16M	20M	*26M
25 ft.	6M	10M	16M	20M	26M
24 ft.	6M	10M	16M	20M	26M
23 ft.	6M	10M	16M	20M	26M
22 ft.	6M	10M	16M	20M	26M
21 ft.	6M	10M	16M	20M	26M
20 ft.	6M	10M	20M	20M	26M
19 ft.	6M	10M	20M	20M	—
18 ft.	6M	10M	20M	22M	—

\* Where 26M guying is required, place either a 25M guy or a combination of one 16M and one 10M guy.

**Note:** Where two guy strands are to be attached to the same fixture at different levels, use height of attachment of the **lower guy** in determining size of strand for the guys.

2.03 The size of PIPE required shall be selected in accordance with the following table:

Length of Pipe (Feet)	Size of Sidewalk Anchor Guy					
	6M	10M	12M	16M	20M	25M
	Size of Pipe (Inches)					
6	2	2	2	2	2	2
7	2	2	2	2	2	2
8	2	2	2	2	2	2-1/2
9	2	2	2	2	2-1/2	2-1/2
10	2	2	2	2-1/2	2-1/2	2-1/2
11	2	2	2-1/2	2-1/2	2-1/2	2-1/2
12	2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2

2.04 The size of POLE required for use in connection with a sidewalk anchor guy is dependent upon the  $\frac{\text{Lead}}{\text{Height}}$  and the size of the guy. Poles used should have a ground line circumference at least equal to that of the classes indicated in the following table:

<u>Lead</u> <u>Height</u>	<u>Size of Sidewalk Anchor Guy</u>					
	<u>6M</u>	<u>10M</u>	<u>12M</u>	<u>16M</u>	<u>20M</u>	<u>26M</u>
	<u>Classes of 30-Foot Poles</u>					
2/5	7	5	4	3	2	2
1/2	6	4	4	3	2	1
3/5	5	4	3	2	1	1
2/3	5	3	3	2	1	1
4/5	5	3	2	1	1	1
1/1	5	3	2	1	1	1

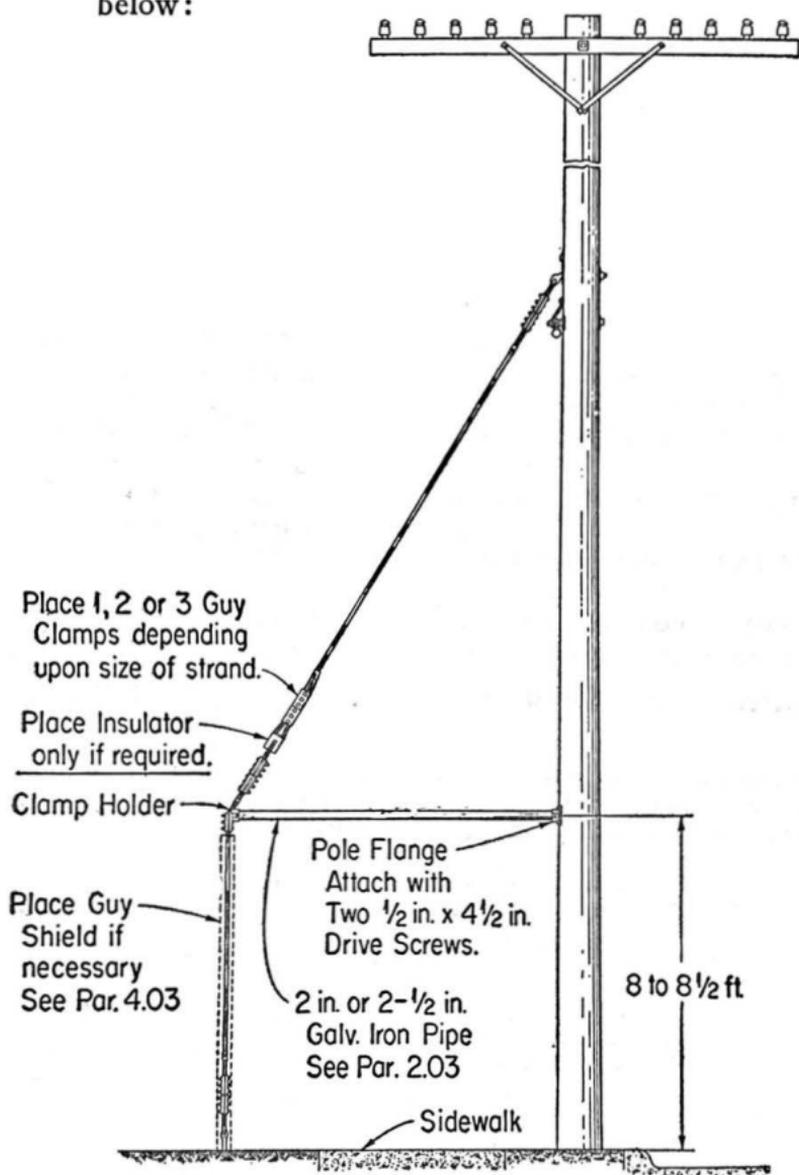
**Note:** Poles of other lengths may also be used provided their circumferences 6 feet from the butt are not less than those of the classes of 30-foot southern pine poles indicated above.

### 3. INSTALLATION OF SIDEWALK ANCHOR GUYS

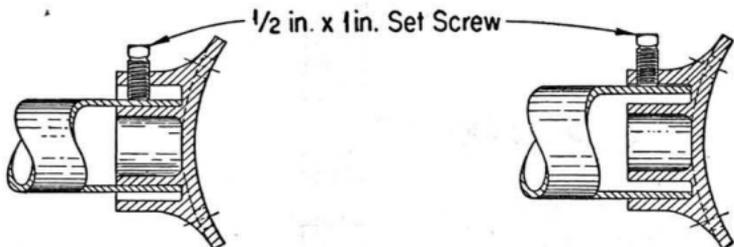
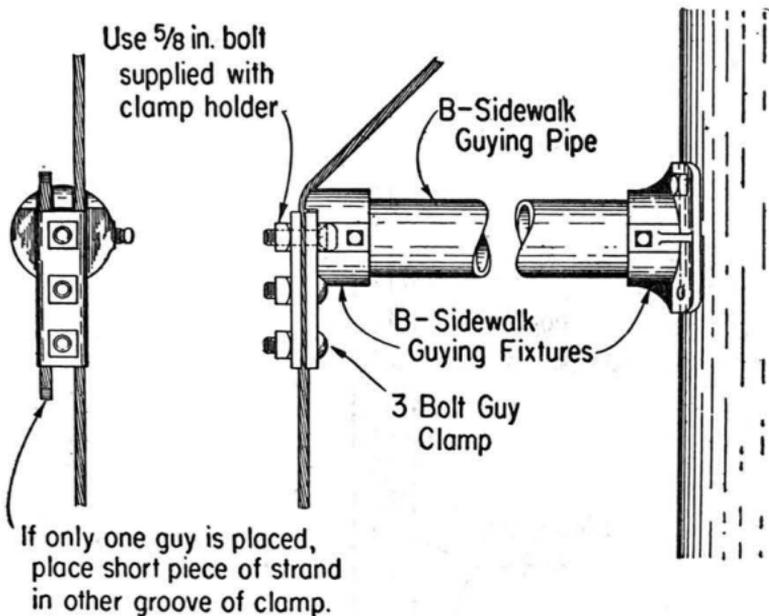
3.01 Assemble and install sidewalk anchor guys as follows:

- (1) Make up the guy and attach it to the pole at the proper location.
- (2) Attach pole flange to the pole by means of two 1/2-inch by 4-1/2-inch drive screws.
- (3) Assemble the fittings including the clamp holder and three bolt guy clamp.
- (4) Fasten the strand to the clamp holder by means of the three bolt guy clamp at a point which will place the pipe in a horizontal position, after the guy is tensioned.
- (5) Tension the guy at the guy rod.

3.02 A typical installation of a sidewalk anchor guy is shown below:



**Note:** Four holes are provided in the pole flange, and when attaching to the pole two drive screws should be placed in diagonally opposite holes, which should be selected to avoid knots and other timber defects in the pole.



Section showing position of 2 in. pipe inside collar of the pole flange.

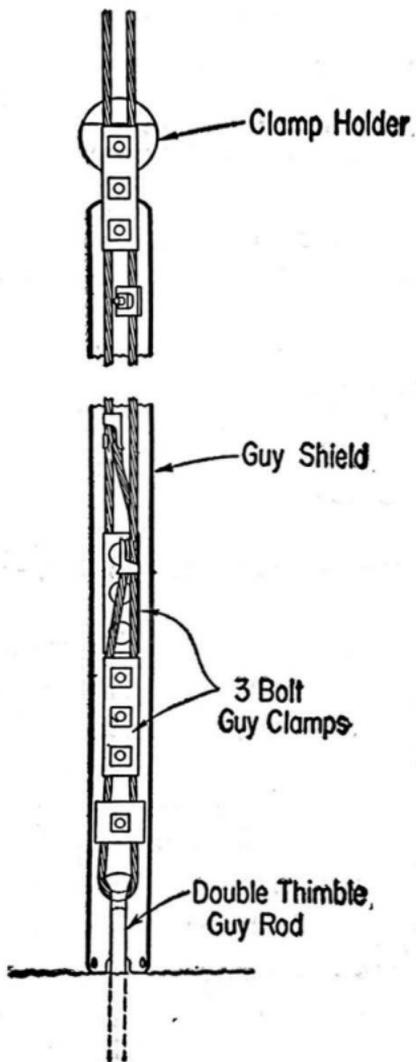
Section showing position of 2 1/2 in. pipe inside collar of the pole flange.

3.03 When installing a second guy, support the pipe by a prop placed near the outer end, or by a rope guy between the outer end of the pipe and the upper part of the pole before loosening the three bolt guy clamp to install a second guy.

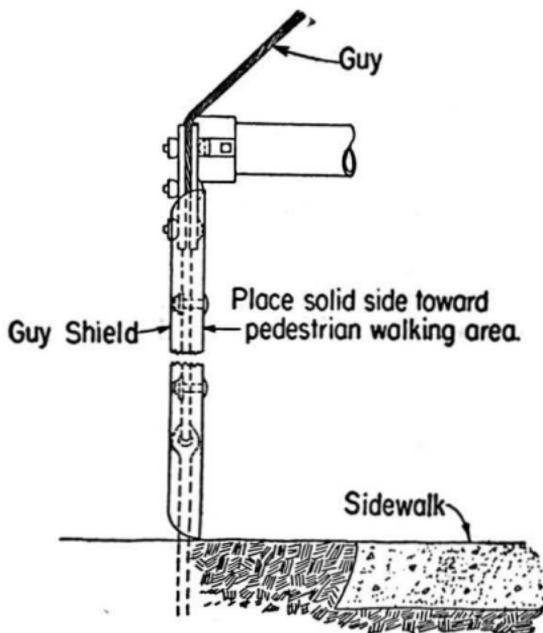
#### 4. GUY ANCHORS AND GUY SHIELDS

4.01 Anchors should be selected on the basis of the size of the strand required for the sidewalk anchor guy and should be set vertically to a depth **one foot greater** than the vertical depth of setting normally required.

4.02 If a double thimble guy rod is used, it should be installed as illustrated below to facilitate the placing of a guy shield where required.



4.03 Place the guy shield as shown.



**Note:** If a double thimble guy rod and two guys are required, place the guy shield on the guy nearer the sidewalk.