

WOOD POLES

I. Quantity

The base bid shall include the indicated quantities of the specified sizes of wood poles supplied and installed as hereinafter specified.

II. Material

a. Poles

All poles shall be Southern Yellow Pine.

All poles shall conform in all respects to the latest revision of the American National Standard Association specification 05.1 titled specifications and dimensions for wood poles.

All poles shall be machine turned. Turning, boring (if required) and roofing shall be done before treatment.

b. Preservative Treatment

Poles shall be cured and have all manufacturing processes completed prior to treatment. Poles shall be cured and treated full length in accordance with the latest revision of the American Wood Preservers Association (AWPA) guidelines as published in the latest revision of their Book of Standards. Treatment shall be accomplished using Chromated Copper Arsenate, with methods, preparation and solvents as directed in the AWPA Book of Standards.

Retentions for **Chromated Copper Arsenate** shall be as follows:

<u>SPECIES</u>	<u>ASSAY ZONE (ns)</u>	<u>MINIMUM RETENTION</u>
Southern Pine	0.50 .2.00	0.60

c. Framing and Marking

Poles shall be framed and marked as shown on Division of Electricity drawing 03S0037 attached hereto.

d. Related Specifications

The following listed specifications or latest revision thereof, may be considered as pertinent to this specification.

ANSA 05.1-1979 - Specification and dimensions for wood poles.

AWPA C-1-88 Standard for preservative treatment by pressure process all timber products.

AWPA C-4-89 Standard for preservative treatment of poles by pressure process.

AWPA P-8-89 Standards for oil borne preservatives.

AWPA P-9-87 Standards for solvents and formulations for organic preservative systems.

AWPA M-4-84 Standard for the care of preservative-treated wood products.

III. Installation

- a. A hole to receive the pole shall be prepared to the depth indicated on Division of Electricity Drawing 03S0011 attached hereto. Concrete sidewalks shall be saw cut.
- b. The pole shall be set in the hole and held straight and true.
- c. The hole shall be backfilled in six inch layers and firmly tamped, (See note 3 Drawing 03S0011) using powered tamper.
- d. The excess earth and materials shall be disposed of by the contractor as specified in Section 203.05 of the City of Columbus Construction and Materials Specifications.
- e. If the pole is set in a concrete sidewalk the section of the sidewalk shall be replaced in accordance with Item 208.
- f. If the pole is set in a brick sidewalk or other paved area, the surface shall be restored with similar materials, as shown on the plans and as directed by the engineer.
- g. The location of the poles shall be as shown on the drawings and as located in the field by the engineer.
- h. The engineer may direct any pole to be topped after installation. Any poles so topped shall have their roofs protected by a plastic pole cap.

IV. Quotation

The wood poles as hereinbefore specified shall be quoted on as a unit price each in the appropriate place in this document.

Length of Pole	Depth of Hole or Setting	
	In Firm Soil, etc.	In Rock, etc.
75	9-1/2	6
70	9	6
65	8-1/2	6
60	8	6
55	7-1/2	5
50	7	4-1/2
45	6-1/2	4-1/2
40	6	4
35	6	4
30	5-1/2	3-1/2

NOTES:

- (1) All dimensions are in feet.
- (2) Depths shown in tabulation are the minimum for normal straight-line construction.
- (3) For small angles without side guys, for stub guy poles without down guys, and for other abnormal situations the depth of setting shall be greater and/or the pole shall be keyed, or blocked to make the setting adequate.

The additional depth and/or the method of keying, blocking, required shall be determined according to conditions prevailing at the site.

MELP

MUNICIPAL ELECTRIC LIGHT & POWER SYSTEM
CITY OF COLUMBUS, OHIO
DEPT. OF UTILITIES & AVIATION - DIV. OF ELECTRICITY

DISTRIBUTION (OVERHEAD)
DEPTH (POLE SETTING)

3-28-91

REVISIONS

SCALE NONE

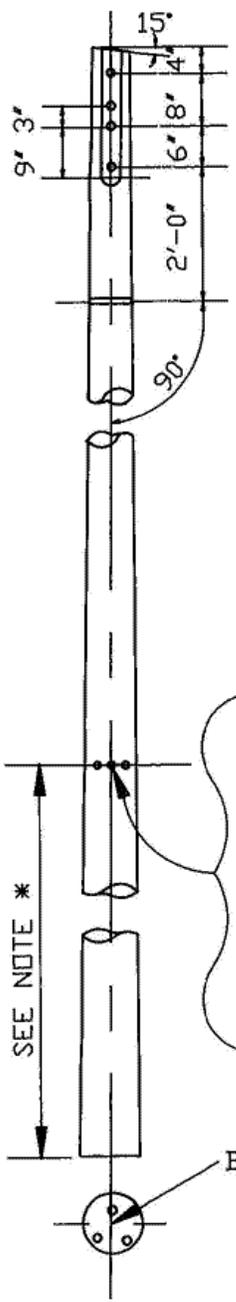
DRAWN PC 3/91

DRAWING NO. 03S0011

C. D. NUMBER

APPROVED

SHEET 1 OF 1



THROUGH-BOLT HOLES MUST BE PARALLEL AND IN THE SAME PLANE.

HOLES: DRILL 1 1/16" DIAMETER.

GAINS: GAINS ARE TO BE FLAT WITH PLANE AT RIGHT ANGLES TO BOLT HOLE.

NEUTRAL BOLT HOLE MUST BE 90° ANGLE WITH THROUGH-BOLT HOLE.

ALL POLES TREATED FULL-LENGTH MUST BE BORED, ROOFED AND GAINED BEFORE TREATMENT, EXCEPT THAT CLASS 2 AND LARGER POLES SHALL NOT BE GAINED UNLESS REQUESTED BY DIV. OF ELECTRICITY. ROOFS SHALL BE AT A 15° ANGLE.

* BOTTOM OF BRAND SHALL BE 10' ± 1' FROM POLE BUTT; 14' ± 1' MARK FOR POLES 55' AND LONGER.

MANUFACTURER'S MARK AND DATE OF TREATMENT, (MONTH AND YEAR).

BRAND WITH PROPER LENGTH AND CLASS.

BRAND WITH SPECIES, PRESERVATIVE CODE AND RETENTION.

BRAND BUTT WITH PROPER LENGTH AND CLASS.

ALL POLES TO BE TREATED FULL-LENGTH.
USE REA M20 FRAMING.

REV. 1-23-90

MELP

MUNICIPAL ELECTRIC LIGHT & POWER SYSTEM
CITY OF COLUMBUS, OHIO
DEPT. OF UTILITIES & AVIATION - DIV. OF ELECTRICITY

REVISIONS

POLE FRAMING GUIDE

SCALE NONE	DRAWN LSZ 6/81	DRAWING NO. 03S0037 SHEET 1 OF 1
C. O. NUMBER	APPROVED DB 6/81	