

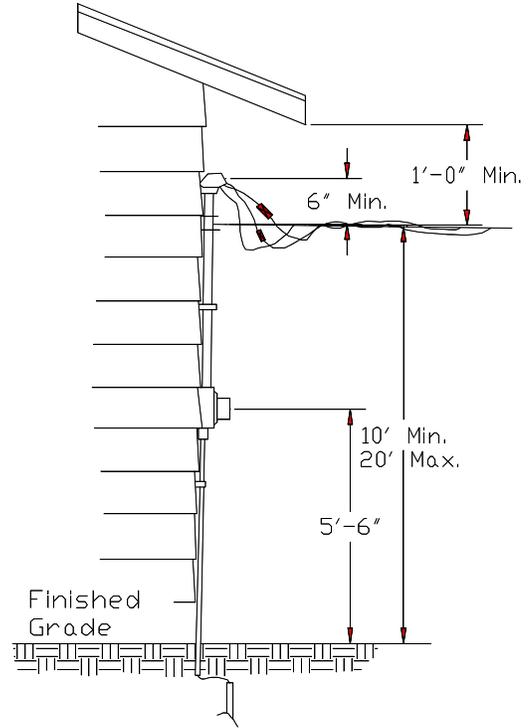
**City of Highland, Illinois
OVERHEAD Service Installation
Wall Type Service
0 – 200 Amp 240 Volts and under**

The City will install, own and maintain:

1. Overhead cable service
2. Cable dead end
3. Compression type connectors

The Customer shall install, own and maintain:

1. Conduit service mast (aluminum or galvanized rigid steel sized for the service (see notes))
2. Conduit hangers. On cinder brick, brick veneer, or similar wall hangers must be bolted through the wall
3. Minimum 8' x 1/2" driven copper plated ground rod
4. 1/2" conduit from meter to 6" below grade with bonding wire to ground rod
5. Rain tight service head
6. Meter socket



Recommended Sizes:

| Service | Conductor | Conduit | Bonding Wire |
|---------|------------|---------|--------------|
| 100 Amp | #3 Cu | 1-1/2" | #6 Cu |
| 200 Amp | 3/0 Cu | 2" | #4 Cu |
| 400 Amp | 500 KCM Cu | 3" | 1/0 Cu |

NOTES:

The installation of all conductors, conduit, and service entrance equipment must conform to local and national electrical code.

The mast must be located to provide adequate clearances for the utility's overhead service cable. Ground and other clearances from the utility's overhead service cable.

The neutral must be bared or marked at weatherhead and must be continuous through meter socket.

Approximately 24" of conductor must extend beyond weatherhead.

Inside conduit edges must be reamed and smooth.

All service supports must be installed by customer. The screw of the house knob must extend 2" into a vertical stud of the house. An eyebolt must be used for 400 amp service. If a long service (over approx 100') or 400 amp service dictates the use of an eyebolt instead of a house knob, the customer is responsible for providing an adequate backing plate for the bolt. Conductor point of attachment to building (at eyebolt or house knobs) must be within 36 inches of weatherhead.

Heavy walled plastic may be used from meter base to service base to service panel/main disconnect.

A bonding wire is required when heavy walled plastic conduit (Schedule 80) is used from the meter base to the main disconnect.