

## **OVERHEAD SERVICE TYPE I**

### **RESIDENTIAL SERVICE ENTRANCE**

Meter installation must clear telephone wire and downspouts, 2 feet minimum, and be placed beyond reach from all windows and doors. Unless otherwise noted, all wiring materials are to be furnished and installed by customer. All service entrance wiring must conform to the "National Electrical Code" and Local Electrical Code in force at the time the service is installed.

1. Weatherproof service cap (Weatherhead) must extend above service wires (by customer).
2. RIGID Steel conduit is to be used. Minimum size is 1 1/4".
3. 5/8" x 8'0" Copper Clad Ground rod driven not less than 8 feet into ground (by customer).
4. No. 6 Copper Conductor (Min.) conduit optional for appearance.
5. Standard NEMA Ground Clamp.
6. Straps (by customer).
7. L.B.C. galvanized fitting having 1/2 inch bottom outlet.
8. Detachable meter in meter sockets, furnished by City.
9. Galvanized locknuts. One on outside of switch box and one on inside of switch box. They must be drawn up tight against switch box, with sharp edges of locknuts against switch box (furnished by customer).
10. Galvanized conduit bonding type bushing (furnished by customer).
11. Service entrance switch, fuse, or circuit breaker box. Service entrance box must have a solid grounded neutral. Used bonding screw to bond neutral bus to the metal cabinet. Box will be sized to service, and will include protective device and disconnecting means and individual circuit protection (furnished by customer).
12. Copper insulated stranded wire. (Aluminum conductor of equivalent size is not recommended but may be used with correct application of "CONTAX" grease). Approximately 3 feet of conductor will extend from weatherhead. All conductors should be the same size. (Neutral size may be reduced up to 1/2, where load is sufficiently balanced to conform to National Electrical Code and local codes permit.)

\*Furnished by City.

## **OVERHEAD SERVICE TYPE II**

### **RESIDENTIAL SERVICE ENTRANCE**

Meter installation must clear telephone wire and downspouts, 2 feet minimum, and be placed beyond reach from all windows and doors. Unless otherwise noted, all wiring materials are to be furnished and installed by customer. All service entrance wiring must conform to the "National Electrical Code" and Local Electrical Code in force at the time the service is installed.

1. Weatherproof service cap (Weatherhead) must extend above service wires (by customer).
2. RIGID Steel conduit is to be used. Minimum size is 2".
3. 5/8" x 8'0" Copper Clad Ground rod driven not less than 8 feet into ground (by customer).
4. No. 6 Copper Conductor (Min.) conduit optional for appearance.
5. Standard NEMA Ground Clamp.
6. Straps (by customer).
7. L.B.C. galvanized fitting having 1/2 inch bottom outlet.
8. Detachable meter in meter sockets, furnished by City.
9. Galvanized locknuts. One on outside of switch box and one on inside of switch box. They must be drawn up tight against switch box, with sharp edges of locknuts against switch box (furnished by customer).
10. Galvanized conduit bonding type bushing (furnished by customer).
11. Service entrance switch, fuse, or circuit breaker box. Service entrance box must have a solid grounded neutral. Used bonding screw to bond neutral bus to the metal cabinet. Box will be sized to service, and will include protective device and disconnecting means and individual circuit protection (furnished by customer).
12. Copper insulated stranded wire. (Aluminum conductor of equivalent size is not recommended but may be used with correct application of "CONTAX" grease). Approximately 3 feet of conductor will extend from weatherhead. All conductors should be the same size. (Neutral size may be reduced up to 1/2, where load is sufficiently balanced to conform to National Electrical Code and local codes permit.)

\*Furnished by City.

ITEMS FURNISHED BY CUSTOMER:

- (A) Temporary service cable to be installed by customer to temporary meter location must be of an approved underground type without splices from pedestal to the meter. Maximum distance from pedestal is 10 feet.
- (B) Conduit 1" minimum galvanized rigid.
- (C) Raintight fuse switch 60 ampere minimum.
- (D) Conduit and bonding locknuts.
- (E) Raintight duplex receptacle.
- (F) 4" x 4" timber or equal.
- (G) 2" x 12" board.
- (H) No. 6 Copper Conductor.
- (I) NEMA Ground Clamp.
- (J) 5/8" x 8'0" Copper Clad Ground Rod.

ITEMS FURNISHED BY CITY:

- (K) Power pedestal.
- (L) Meter socket base (Installed by customer).
- (M) Meter (Installed by City).

**TEMPORARY UNDERGROUND SERVICE**

## **UNDERGROUND SERVICE**

### ITEMS FURNISHED, INSTALLED & OWNED BY CUSTOMER:

1. Conduit (Rigid Galv. 2" Min)
2. Locknut 2"
3. 2" Conduit Bushing
4. 2" Galv. Conduit Hanger
5. Lag Screw
6. Expansion Shield
7. Cable from Customer's Disconnect to the Meter Socket
8. NEMA Ground Clamp
9. Ground Rod – 5/8" x 8'0" Copper Clad Ground Rod Method

### ITEMS FURNISHED BY CITY:

10. Meter Socket Base (Installed by Customer)
11. Meter Socket
12. Cable from Meter to Transformer



## **TEMPORARY OVERHEAD SERVICE**

### ITEMS TO BE FURNISHED BY CUSTOMER:

- (A) 4" x 4" Timber or equal. Timber acceptable only for temporary installations. For permanent installations, a 16' creosoted pine pole is required. 100' is maximum service length permitted without intermediate support being furnished and installed by customer. Where service crosses streets a higher support may be required to provide clearance. Customer should ask advice from Company if in doubt.
- (B) Weatherhead conduit (1" minimum conduit).
- (C) Cable with 3'0" pigtails for connecting to utility power lines. Cable to be U.L. approved and suitable for service.
- (D) Raintight fuse switch 60 amp. Minimum.
- (E) 2" x 4" brace.
- (F) No. 6 Copper Conductor (Min.)
- (G) Standard NEMA Ground Clamp.
- (H) 5/8" x 8'0" Copper Clad Ground Rod.
- (I) Cable to trailer or service cable to be U.L. approve.

### ITEMS TO BE FURNISHED BY CITY:

- (J) Triplex service drop.
- (K) Meter socket base (Installed by Customer).
- (L) Meter (Installed by City).