

6.10 UNDERGROUND SERVICE

- 6.101 **Before digging contact Miss Utility of Delmarva at 1-800-282-8555 for utility markouts.** If digging in the public right of way contact the City of Newark Public Works Department to obtain a permit.
- 6.102 The customer shall install conduit and adequately sized underground secondary conductors a minimum of thirty (30) inches deep. (See figure 8). A rigid galvanized steel or schedule 80 PVC elbow and ten (10) feet of rigid galvanized steel or schedule 80 PVC conduit is required at the service pole. The rigid steel galvanized conduit shall be bonded to a pole ground with a conduit ground clamp. The remainder of the conduit may be PVC schedule 40. Customer shall furnish this PVC conduit and standoffs to the City for installation by City crews if existing energized conductors are located on the service pole. Customer is responsible for PVC conduit and standoff installation if no existing energized conductors are located on the pole.
- 6.103 All conduits shall be stood off pole a minimum of one and five eighths (1 5/8) inches.
- 6.104 The customer shall provide a 5/8 x 10' copper clad ground rod at the pole if none exists.
- 6.105 Adequate secondary cable shall be installed to make connections to the City distribution system.
- 6.106 The customer shall supply approved connectors for attachment to the City distribution system. (See figure 13).

7. COMMERCIAL PRIMARY SERVICE REQUIREMENTS

7.1 PLANNING

- 7.11 Before work can begin for a new commercial primary service, a City of Newark service and meter location form (See figure 1) shall be filed describing completely as possible the equipment to be served and the **size of the load** to be supplied so that adequate capacity may be provided. **Before proceeding with any wiring, the point of delivery and meter location shall be determined by a City of Newark representative.** Site and design plans are required including a single line diagram, switchgear specifications, other service equipment and proposed locations of all equipment.

7.2 POINT OF DELIVERY

- 7.21 The City of Newark will designate in writing, upon request, a satisfactory point of delivery where the customer shall terminate wiring and facilities for connection to

the supply lines of the City of Newark. The failure to request and obtain such location may result in refusal of service pending relocation of the customer's facilities; however, the designation of a point of delivery does not constitute an agreement or obligation on the part of the City of Newark to furnish service.

7.3 EASEMENTS

- 7.31 Easements may be required to install City owned facilities, easements shall be shown on the development prints.

7.4 INSTALLATION

- 7.41 All new wiring and equipment shall be installed in accordance with the latest edition of the National Electric Code and the City of Newark requirements in order to be approved for connection.

7.5 INSPECTION AGENCY APPROVAL

- 7.51 The City will connect its distribution system only after receipt by the City of a notice of approval issued by a duly recognized inspection agency. In order to receive an inspection, the customer shall have a valid City of Newark Building Permit.

7.6 SERVICE ENERGIZING

- 7.61 The City of Newark Electric Department will set the meter and energize the service after the customer meets all commercial electric service requirements including:
1. Paying all connections fees
 2. Paying any applicable construction and material fees
 3. Paying a meter deposit
 4. Receiving a notice of approval from a duly recognized inspection agency
 5. Applying for a service for billing purposes with the City of Newark Customer Service Department
 6. A customer representative shall be present to energize the service

7.7 SPECIFICATIONS

- 7.71 Primary electric service may be available depending on location and the size of the load.
- 7.72 Available voltages (depending on location)

Three phase 12470/7200 volt, 4 wire Maximum load - 4000kVA

Three phase 4160/2400 volt, 4 wire Maximum load - 700kVA

- 7.73 The customer will be required to supply and install any underground conduit and approved nylon flat strap, pull string with sequential foot markings per City requirements for a primary underground service. Responsibility for supply and installation of underground high voltage cable, high voltage aerial terminations and elbows will be determined at the time of drawing submittal.
- 7.74 Underground cable type, high voltage aerial terminations and elbows shall conform to City Standard. (See figure 7).
- 7.75 City crews will install aerial high voltage terminations supplied by the customer at pole locations (See figure 7) only if standard cable is used.
- 7.76 Switchgear supplied and installed by the customer shall be approved by the City and shall coordinate properly with the City's protective devices to avoid unnecessary service interruptions to other customers.
- 7.77 The City will provide and install the metering including all current and potential transformers.
- 7.78 Customer shall pay all costs for primary metering.
- 7.79 The customer shall install conduit and underground high voltage conductors a minimum of forty (40) inches deep. A galvanized steel or schedule 80 PVC elbow and ten (10) feet of rigid galvanized steel or schedule 80 PVC conduit is required at the service pole. The rigid steel conduit shall be bonded to the pole ground with a conduit ground clamp. The remainder of the riser conduit may be PVC schedule 40. Customer shall furnish this PVC conduit and standoffs to the City for installation by City crews if existing energized conductors are located on the service pole. Pull string shall be installed prior to building conduit up pole. Customer is responsible for PVC conduit and standoff installation if no existing energized conductors are located on the pole. All conduits shall be stood off pole a minimum of 1+5/8".
- 7.710 Customer shall provide 5/8" x 10' copper clad ground rod at the pole if none exists.
- 7.711 Customer shall install and supply a padmount primary metering cabinet approved by the City if required.
- 7.712 No more than three 90-degree sweeps are permitted in a conduit run.
- 7.713 Junction boxes approved by the City are required for all cable runs exceeding 700 feet unless approved otherwise by the City of Newark Electric Department. (See figure 13).

- 7.714 Any oil filled padmounted equipment shall be located a minimum of 10' from combustible buildings, windows, doors and stairwells.
- 7.715 **Before digging contact Miss Utility of Delmarva at 1-800-282-8555 for utility markouts.** If digging in the public right of way contact the City of Newark Public Works Department to obtain a permit.
- 7.716 A site meeting is required to verify compliance with these standards and to locate all padmounted equipment. Conduit locations at poles, orientation of padmounted gear and firewall requirements will also be verified.

8. COMMERCIAL SECONDARY SERVICE REQUIREMENTS

8.1 PLANNING

- 8.11 Before work can began for a new commercial secondary service, a City of Newark service and meter location form (See figure 1) shall be filed describing completely as possible the equipment to be served and the **size of the load** to be supplied so that adequate capacity may be provided. **Before proceeding with any wiring the point of delivery and meter location shall be determined by a City of Newark representative.** Site and design plans are required including a single line diagram, switchgear specifications, other service equipment and proposed locations of all equipment.

8.2. POINT OF DELIVERY

- 8.21 The City of Newark will designate in writing, upon request, a satisfactory point of delivery where the customer shall terminate wiring and facilities for connection to the supply lines of the City of Newark. The failure to request and obtain such location may result in refusal of service pending relocation of the customer facilities. However, the designation of a point of delivery does not constitute an agreement or obligation on the part of the City of Newark to furnish service.

8.3 EASEMENTS

- 8.31 Easements may be required to install City owned facilities. Easements shall be shown on the development prints.

8.4 INSTALLATION

- 8.41 All new wiring and equipment shall be installed in accordance with the latest edition of the National Electric Code and the City of Newark requirements in order to be approved for connection.