

SPECIFICATIONS

All materials supplied pursuant to this bid shall be guaranteed for a minimum of three (3) years from the date of delivery to the Town of Babylon.

Complete catalogs, catalog cuts, current dealer price sheets, installation and engineering recommendations and associated hardware catalogs shall be supplied as a part of the initial bid proposal.

The bidder may be required to submit samples before bid award and/or purchase order.

All items shall be delivered FOB in perfect condition to: Town of Babylon Street Lighting Dept., 1023 N. Indiana Avenue, Lindenhurst, NY 11757.

Delivery and/or pick-up shall be as indicated in individual categories.

Delivery and/or pickup shall be performed between 8:00 a.m. and 2:30 p.m. on weekdays, not including Holidays.

The Town of Babylon reserves the right to test any material before and after delivery to the job site, and to base acceptance or rejection on such test. If required, the Town of Babylon may direct the vendor to remove all rejected materials from the job site at the Vendor's expense.

All prices must be inserted on the bid sheet attached.

SPECIFICATION FOR SQUARE LIGHTING POLE

1. GENERAL DESCRIPTION

1.1 Fiberglass lighting pole to be square, hollow, and of uniform taper along its length. The butt end of the embedded-type poles shall be enlarged and square so as to increase the resistance to rotation and provide maximum ground bearing resistance (anti-theft). The pole shall be non-conductive and chemically inert.

2. INSTALLATION DATA

2.1 Direct embedded poles will be set to a depth of 3 feet.

3. POLE SHAFT CONSTRUCTION

3.1 The pole will be constructed from continuous fiberglass filaments and woven fiberglass roving combined with thermosetting polyester resin.

3.2 The fiberglass and resin ratio of the pole will contain at least 65% glass and the balance polyester resin.

3.3 The glass filament will be helical-wound under tension first at relatively high angle (65-85 degrees) to the longitudinal axis of the pole with alternate layers of filaments in opposite directions for maximum circumferential (compressive) strength.

Secondly, an outer core section of greater weight than the inner core section is a combination of helical wound and hand woven fiberglass roving fabric wrapped at a relatively low angle (3-15 degrees) to the longitudinal axis of the pole for maximum longitudinal (bending) strength.

3.4 The pole shall have a minimum wall thickness from the top to the base in proportion to the load and ground moment requirements. The pole shall be reinforced in areas of special hardware attachments.

4. TENON

4.1A 16 gauge steel tenon will be firmly bonded to the pole for mounting a post top luminaire. The steel tenon shall be 3 in. O.D. and will be straight with no taper. The tenon will be coated with matching urethane finish.

5. WIRE ENTRANCE

5.1A wire entrance hole of 1 3/8 in. will be located 24 in. below ground line.

6. FINISH

6.1 The surface of the pole shall be uniform and consistent for the entire length of the pole.

6.2 The resin shall contain colored pigment to match the finish coat of the pole. Solid coloration will be throughout the wall thickness of the pole.

6.3 The finish coating will be pigmented urethane finish capable of withstanding exposure to ultraviolet, chemicals and extreme weather conditions.

6.4 The surface coating shall be a minimum of dry film thickness of 1 1/2 mils.

7. FLAME RESISTANT

7.1 The pole shall be flame resistant in accordance with ASTM D635

8. PROTECTIVE WRAPPING

8.1 Each pole will be individually wrapped with a weather resistant paper for protection in shipping and storage.