

**ALUMINUM LIGHT POLE, 40' MH with T-BASE**  
**12' TRUSS BRACKET, 6'6" RISE**

I. Quantity

The base bid shall include the quantity indicated of aluminum poles furnished and erected as hereinafter specified and located as shown on the drawings.

II. Material

The aluminum poles shall be as follows:

The street light pole shall consist of a round, tapered, spun aluminum shaft having a base welded to the lower end and complete with bolts, transformer base and single 15' bracket as specified and with a pole top. The complete unit shall be designed for wind loading of at least 101 M.P.H.

The transformer base shall be approximately 17" high, 15-3/8" square at the base and 11-3/4" square at the top. The door opening in the base shall be approximately 8-3/4" x 9-1/4" x 13" and the door shall be attached to the base with a stainless steel piano hinge. The hinge shall be placed at the top of the door and attached to the base and the door with stainless steel rivets. The door shall be held in place with a tamper resistant fastener at the bottom.

Each base shall be provided with four (4) loose bearing plates and nuts to fasten the base down to the anchor bolts. The transformer base shall fasten to the shaft anchor base by means of four (4) loose bearing plates and four (4) hot dipped galvanized hex head steel machine bolts and nuts. All bearing plates shall be hot dipped galvanized.

A 1/2"-13 UNC tapped hole shall be provided for the grounding lug. The shaft shall have no longitudinal or circumferential welds except at the lower end joining the shaft to the base and shall be 10" x 6 5/8" x 33' 9" and be 6063 Alloy T-6 with minimum wall thickness .156."

An opening shall be furnished near the top of the shaft to provide a cable entrance from the shaft into the bracket arm. A special cast adapter shall be welded into this opening, providing a smooth cable guide for wiring and a support for the attaching plate which is welded to the bracket arm. The top of the shaft shall be equipped with a cast aluminum removable pole top held securely in place by means of set screws.

The bracket arm shall be a 12' truss type with 6' 6" rise. The upper and lower members shall be joined near the luminaire end of the arm and braced with a vertical strut. The upper member shall be the continuous or wiring member and shall be a tapered tube ovalized at the pole shaft end with the major dimension of the oval in a horizontal plane. Its nominal wall thickness shall be 1/8". The lower member shall be standard pipe. The vertical strut shall be ovalized standard pipe. Both upper and lower members shall be attached to the pole shaft with formed pole bands, alloy 6063-T6, with 1/2"-13NC stainless steel hardware. Wiring at the upper attachment shall be through grommeted 1" diameter hole. The material of the main bracket members and their attachments pole bands shall be alloy 6063-T6.

The bracket arm shall incorporate a 2" pipe size slipfitter tenon at least 6" long.

Four (4) 1"-8NC high-strength, hot dipped galvanized, steel anchor bolts, each fitted with a hex nut, shall be furnished with the poles. Each anchor bolt shall have an "L" bend at the bottom end and be threaded at the top end. Threaded ends and all nuts shall be galvanized. Anchor bolts shall be capable of resisting at yield strength stress the bending movement of the shaft at its yield strength stress.

All hardware (bolts, nuts and washers - but not including anchor bolts) not otherwise specifically designated in this specification, shall be aluminum or stainless steel (at the option of the supplier).

All materials shall be furnished in natural aluminum color. Pole shafts shall be furnished with polished surface.

Shaft and bracket arm assembly shall be tire-wrapped with a heavy water resistant paper for protection during shipment and installation.

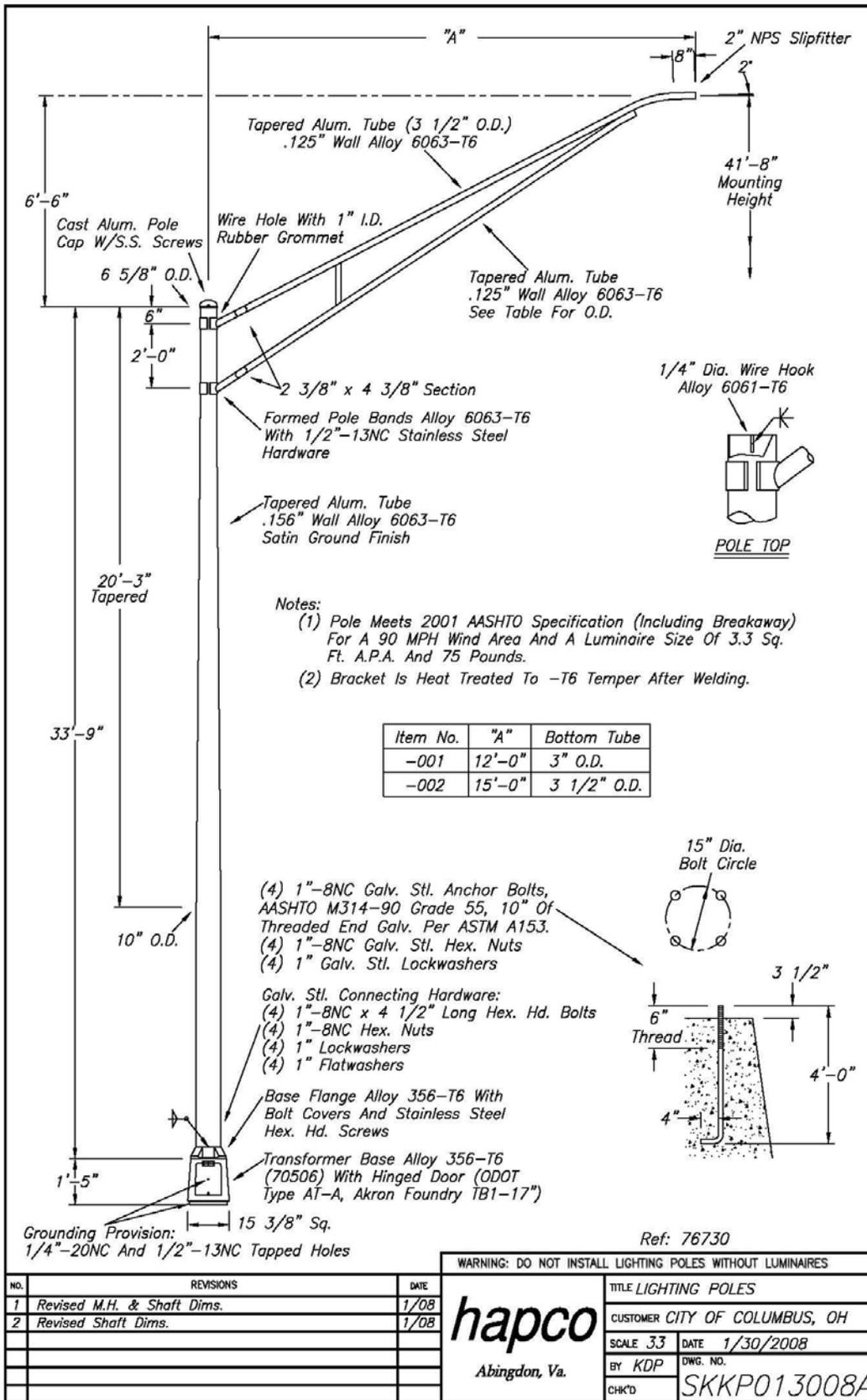
The complete pole shall be an approved equal in design, quality and performance to Hapco Company SKKPO13008A-001.

### III. Installation

The poles and bases shall be set on the foundation securely anchored to the anchor rods so that the T base door is facing away from the curb. Bases shall be properly plumbed by means of shims.

### IV. Quotation

The aluminum poles furnished and erected as hereinbefore specified shall be quoted on as a unit price each in the appropriate places in this document.



SKKPO13008A