

**CITY OF DETROIT**  
**SPECIAL PROVISION  
FOR  
TRAFFIC SIGNAL PEDESTAL**

Page 1 of 2

1. General Requirements:

1.1 This specification is for a pedestal suitable for mounting traffic signals equipped with slip fitters for 4-1/2-inch O.D. pipe.

Note: Pedestals for controllers are covered separately in specifications for controllers.

1.2 The pedestal height, including the base, shall be 10 feet, 11 feet or 12 feet as indicated on the plans.

2. Special Requirements:

2.1 The pedestal base shall be the square style, approximately 14 inches in height.

2.2 The pedestal base shall be designed for bolting to a concrete foundation having four 3/4-inch anchor bolts arranged on a 12-3/4-inch diameter bolt circle with bolts projecting 2-3/4 inches above the foundation surface.

2.3 The pedestal base shall be provided with an access door of sufficient dimensions to facilitate installation and wiring. The door shall be securely held in place by stainless steel hex head cap screws or by an approved locking device.

2.4 The pedestal shaft shall be threaded into the base.

2.5 The pedestal assembly shall consist of aluminum or steel pipe (as specified on the plans) threaded into a cast iron class 30 base.

2.6 Four steel anchor bolts shall be furnished with each pedestal. The anchor bolts shall be 3/4-inch in diameter and 22 inches in length, this length to include a 4-inch "L" bend at the lower end. Each bolt shall have a minimum thread length of 3 inches on the upper end and shall be hot-dip galvanized for at least 6 inches on the upper end after threading.

2.7 Each bolt shall be furnished with a hex nut and washer. Nuts and washers shall be hot-dip galvanized.

2.8 Nuts must turn freely on bolts after galvanizing.

2.9 Aluminum pedestals shall not be painted.

2.10 Steel pedestals interior surfaces be thoroughly cleaned of grease, rust, or other foreign matter immediately prior to painting. The exterior of the standard shall be prime painted with at least one coat of zinc chromate iron oxide synthetic resin base primer immediately after cleaning and

CITY OF DETROIT  
  
SPECIAL PROVISION  
FOR  
TRAFFIC SIGNAL PEDESTAL

Page 2 of 2

drying. The interior surface shall be prime painted with either red lead or zinc chromate iron oxide synthetic resin base primer. The exterior of be given a finish coat of light gray weather-resistant enamel. A color sample will be forwarded to the successful bidder for color matching purpose.

**Method of Measurement and Basis of Payment**

The completed work as described shall be paid for at the contract unit price for the following contract item (pay item):

**Pedestal, Alum, Modified** will be measured as a unit. The contract unit price each shall be payment in full for furnishing and installing pedestal fittings, ground rod( s ), ground wire and such other material as may be required to provide a complete and operating job as specified herein and as shown on the plans.

**Pedestal, Fdn, Modified** will be measured as a unit. The contract unit price each shall be payment in full for excavating, for constructing a new concrete foundation and installing grounding and ground rod(s) and such other material as may be required to provide a complete and operating job as specified herein and as shown on the plans. Pavement, sod, curb and sidewalk removal and replacement, excavation, granular material backfill and disposal of waste excavated material is also included.

**Pay Item**

**Pay Unit**

Pedestal, Alum, Modified  
Pedestal, Fdn, Modified

Each  
Each