

ROAD COMMISSION FOR OAKLAND COUNTY

SPECIAL PROVISION  
FOR  
**PEDESTAL, ALUM**

RCOC/TOC

PAGE 1 OF 2

RCOC20SP820J

ORG:05-07-21

REV: 03-01-25

**a. Description**

This work consists of aluminum pedestals with octagonal base according to the plans and sections 820 and 921 of the Standard Specification for Construction except as herein provided.

This specification is for a pedestal suitable for mounting traffic signals equipped with slip fitters for 4" nominal size pipe. The overall height of the pedestal shall be as shown on the contract documents, typical signal construction details, and to provide the signal mounting height. The pedestal shall conform to the minimum specifications given below, but consideration will be given to features of design, construction, and workmanship.

**b. Materials**

All work must be in accordance with the contract documents.

1. Octagonal Aluminum Pedestal Base

Provide octagonal shape pedestal base.

The octagonal aluminum base shall be fabricated free of voids, pits, dents, molding sand and excessive foundry grinding marks. All corners shall be smooth and intact. Exterior surface finish shall be smooth and cosmetically acceptable by being free of molding fins, cracks and other exterior blemishes.

The octagonal aluminum base shall accommodate bolt circles from 12 inches to 14½ inches. The base shall be designed to accommodate (4) anchor bolts from 5/8 inch to 3/4 inch in diameter. There shall be slots in the bottom of the base 1½ inches wide and 2½ inches long to allow adjustment for anchor bolt placement.

Must meet MDOT Detail SIG-070-A Note #4 for pedestal base requirements:

A. Pedestal base must meet the requirements of National Cooperative Highway Research Program Report 350 (NCHRP 350) or Manual for Assessing Safety Hardware (MASH) and have Federal Highway Administration (FHWA) acceptance. Pedestal base must also be certified to have a 4-inch maximum stub height after the support has broken away from its base, as specified in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals and the AASHTO Roadside Design Guide.

2. Aluminum Pedestal Poles

Provide aluminum pedestal poles material in accordance with section 921 of the Standard Specification for Construction except as provided in RCOC detail OC-5A.

The aluminum pedestal pole shall consist of aluminum alloy 6063-T6.

The threaded end of the pole shall have a protective cap installed to prevent thread damage. A cardboard sleeve shall cover the entire length of the shaft to protect the surface finish during shipment and storage.

3. Acceptance

Provide General Certification per the MDOT's *Materials Quality Assurance Procedures Manual* to the Engineer that the materials meet the requirements specified herein.

**c. Construction**

All work must be in accordance with the contract documents.

1. Submittals / Working Drawings

Submit a detailed dimensional drawing of all equipment, material specification list which shows the materials to be used, equipment to be furnished, material documentation that meets this specification, and assembly/installation method.

**d. Measurement and Payment**

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item(s).

<b>Pay Item</b>	<b>Pay Unit</b>
Pedestal, Alum, RCOC.....	Each
Pedestal, Alum, Salv, RCOC.....	Each

**Pedestal, Alum, RCOC (Ea)** 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 as shown on the plans.

**Pedestal, Alum, Salv, RCOC (Ea)** will be measured as a unit. The contract unit price each shall be payment in full for furnishing and installing (salvaged) pedestal, hardware, connectors, wiring, service cables, conduits, grounding, fittings, ground rod(s), ground wire and such other new material as may be required to provide a complete and operating job as specified herein and as shown on the plans.