

Special Specification 6257

Wireless Magnetometer Vehicle Detection System (Installation Only)



1. DESCRIPTION

Install Wireless Magnetometer Vehicle Detection System (WMVDS) provided by the Department as shown on the plans.

2. MATERIALS

Pick up WMVDS units at times and locations shown on plans.

Designate in writing, persons authorized to pick up WMVDS units.

Upon completion of the work and prior to final payment, return any unused or removed material deemed salvageable to the Department as directed.

3. EQUIPMENT AND LABOR

Furnish all equipment and labor necessary to install the WMVDS Magnetometer and Access Points. This will include, but not limited to an aerial device capable of reaching WMVDS Access Point equipment, tools recommended by the manufacturer to install WMVDS Magnetometer on the pavement, and incidentals necessary to complete the work. If at any time equipment is determined defective to the point it may affect the quality of work, return the equipment to the Department immediately to be repaired or replaced.

4. CONSTRUCTION

A factory certified representative from the manufacturer shall be on-site during installation of the WMVDS. Installation personnel are required to be certified by the equipment manufacturer. The User's Guide is not an adequate substitute for practical, classroom training and formal certification by an approved agency.

Formal levels of factory authorized training are required for installers, contractors and system operators. All training must be certified by the manufacturer.

Install the in-pavement sensors in concrete or asphalt pavement as shown on the plans. No in-pavement sensors will be installed before or during road paving.

Install the in-pavement sensors per manufacturer instructions. Place care to avoid sources of magnetic noise such as underground power cables, overhead high tension power cables, light rail or subway tracks, and power generation stations and sub-stations.

Correctly orient in-pavement sensors as clearly marked on the sensor.

4.1. **Mounting Assembly** Mount the WMVDS unit directly onto a mounting assembly fastened to a pole, overhead mast-arm as approved by the Engineer.

Mount WMVDS receiver unit as shown on the plans. Orient equipment with manufacturer recommended line of sight distances between components to maintain proper communications.

- 4.2. **Cables.** Install the Ethernet and power cables, in a continuous run, WMVDS Access Point from the traffic signal pole to the traffic signal controller. Leave 5 ft. coiled inside controller cabinet. Identify cable runs on each end of the cable and at hand hole with a different color tape for each run.

5. MEASUREMENT

The item will be measured by each complete WMVDS Access Point or WMVDS Magnetometer installation. This includes WMVDS Access Point or WMVDS Magnetometer made fully operational, in accordance with this special specification or as directed.

6. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for under the unit bid price for "WMVDS Access Point", and "WMVDS Magnetometer." This is full price for installing, and establishing a connection to each WMVDS. Any tools or incidentals needed to accomplish this will not be paid for separately, but will be considered subsidiary to this bid item.

Power cables shall be paid under Item 621 "Tray Cable"

Ethernet cables shall be paid under Item 6004 "Networking Intelligent Transportation System (ITS) Communications Cable"