

**SECTION 11.10**  
**PRESSURE-SENSITIVE VEHICLE DETECTOR**

**11.10.01--Description:** Work under this item shall consist of furnishing and installing a pressure-sensitive vehicle detector of the type specified, at the location shown on the plans, or as indicated by the Engineer, and in accordance with these specifications.

**11.10.02--Materials:** The materials for this work shall conform to the following requirements:

- 1. Pressure-sensitive vehicle detector** shall conform to Article M.16.11.
- 2. Class "A" concrete** shall conform to Article M.03.01.
- 3. The drain** shall be polyvinyl chloride conduit conforming to the appropriate sections of Article M.15.09.
- 4. Broken stone** shall conform to Article M.02.04(1) except that it shall meet the gradation required for size No. 67 in accordance with Article M.01.01.
- 5. Roofing paper** shall conform to the standard type of roofing paper used commercially.

**11.10.03--Construction Method:** The Contractor shall excavate an opening 2.7 m X 1 m X 0.6 m for the 1.8 m detector and 3.4 m X 1 m X 0.6 m for the 2.4 m detector. Directly below the location of the splice box, a 0.3 m square sump shall be excavated 0.5 m deep. Broken stone shall be installed in this excavation. The sump shall be covered with roofing paper to prevent concrete and foreign materials from entering same. The detector frame shall be placed in the center of the excavated section, or as directed by the Engineer, with a 50 mm polyvinyl chloride conduit from the splice box extending 150 mm into the broken stone. All conduit in the splice box shall extend 50 mm with the exception of the conduit for the drain.

Where two detectors are placed end-to-end in such a manner as to prevent natural drainage from any one detector, a "T" shall be included in the conduit at its lowest point. The opening of the "T" shall be turned down and shall be provided with an appropriate sump filled with broken stone.

**Tests:** A test shall be made with an ohmmeter to make certain the detector pad is operational. The meter shall read infinite ohms (∞) with no pressure on the detector pad. When a vehicle passes over the pad, a momentary reading of zero (0) ohms shall be recorded on the ohmmeter.

**11.10.04--Method of Measurement:** This work will be measured for payment by the number of required "Pressure-Sensitive Vehicle Detectors" of the size and type specified, complete in place, accepted and operating.

**11.10.05--Basis of Payment:** This work will be paid for at the Contract unit price each for "Pressure-Sensitive Vehicle Detector," of the type and size specified, complete in place, which price shall include detector, conduit, concrete, broken stone, roofing paper, testing, tools, all materials and work incidental thereto.

Pay Item	Pay Unit
Pressure-Sensitive Vehicle Detector (Type-Size)	EA.