

SECTION 11.12
MAGNETIC VEHICLE DETECTOR

11.12.01--Description: This item shall consist of furnishing and installing a magnetic 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.

11.12.02--Materials: The materials for this work shall conform to the requirements of Article M.16.13.

11.12.03--Construction Methods: The magnetic detector shall be installed in a 102 mm polyvinyl chloride conduit. A joint shall be made to the control cable in the concrete handhole. Joints shall be made in conformance with Article 11.13.03.

The single lane magnetic detector shall be placed in a roadway excavation made only large enough to permit the pavement box and conduit to be lowered into place. Reinforcing rods in concrete need only to be removed within 125 mm or 150 mm of the detector housing.

Remove the detector coil unit and other parts from the pavement box, replace the cover and install the conduit using pipe joint compound to prevent the entrance of moisture.

The pavement box and conduit assembly will be suspended in the excavation using four bolts and 50 mm X 100 mm wood pieces as temporary supports. The cover of the box should be 75 mm below the finished surface of the roadway. Plug up the unused conduit entrances with pipe plugs. Spread a handful of sand over the cover to prevent concrete from getting into the cracks. Pour concrete in the excavation up to the level of the top surface of the box. After the concrete has hardened, the cover shall be removed and the coil unit placed in the box with the "arrow" pointing toward the intersection.

After the coil connections have been made, a silicone compound shall be applied to the terminals. The conduit entrances shall be sealed with oakum or equivalent and fill the entire pavement box with melted petrolatum (vaseline) or equivalent.

The cover shall then be secured in place and the road resurfaced to its original level.

11.12.04--Method of Measurement: This work will be measured for payment by the number of magnetic vehicle detectors of the type specified, completed, operating and accepted.

11.12.05--Basis of Payment: This work will be paid for at the Contract unit price each for "Magnetic Vehicle Detector," of the type specified, which price shall include detector, detector-amplifier, all materials, labor, tools and work incidental thereto.

Pay Item	Pay Unit
Magnetic Vehicle Detector (Type)	EA.