NOTES:

1. Weight-In-Motion systems require 1 loop detector between 2 Hot wire type piezo sensors, centered in lane with an 18" separation as seen in drawing. Piezo sensor must be parallel to the leading edge of the loop detector and perpendicular to the roadway with no more than 1" variation across the face of the loop or piezo sensors. Each lane should be staggered to avoid cross-talk interference.

2. 18" piezo sensors are standard for all travel lanes up to 12 feet in width. For lanes wider than 12 feet, adjust length of piezo to allow for 1 foot from centerline stripe and lane edge marking to maintain sensor's acquisition of all vehicles passing through the lane. DOT will supply piezo and piezo encasement sealant/grout to be used during installation (See Note #10).

3. Two detector loops shall be installed per travel lane. The loops shall be aligned in the center of the travel lane, and maintain 6 feet in length. For lanes wider than 12 feet, adjust length of the loop with the following formula: Loop Width = Lane Width - 3 feet. Loops shall have 3 turns of (ASA 51-1 (part 8460X) Traffic Signal Cable).

4. Unless otherwise indicated on the project plans, the contractor shall install the loop detectors in the new or existing pavement immediately below the final surface course. This requirement does not apply to Portland cement pavement (PCCP) or PCP.

5. Backfill with excavated material and thoroughly tamp. All excavated material not reused shall be properly disposed of by the contractor.

6. Where pull boxes are installed in concrete areas, 1/4" thick shall be used as an expansion joint.

7. Painted pavement surfacing shall be the manufacturer's crack filler sealant per the Standard Specifications. The sealant shall be applied by the manufacturer. Painted pavement surfacing in PCP shall be the manufacturer's crack filler sealant per the Standard Specifications, or an approved two-part epoxy crack filler sealant.

8. On loop/piezo traffic count systems noted as new, contractor shall furnish material and labor to complete installation of a count system, cabinet, X-poles, foundation, and all necessary conduit connections from cabinet to roadside pullboxes. See detail drawings on sheet 3 or 3 or T.O. 7-10. On loop/piezo traffic count systems noted as existing, contractor shall install the system only.

9. Use same material or approved equal for patching existing pavement. Patch to at least 3/4" greater thickness than existing pavement.

10. Connect MPD Traffic Monitoring Section, at 609-728-5555, no less than 14 working days prior to installation of the loop detectors. MPD Traffic Monitoring Section will provide an Engineer available to oversee the installation, and to answer any questions pertaining to the proper installation and layout of sensors.

WIM INSTALLATION IN MULTI-LANE DIVIDED HIGHWAY

WIM INSTALLATION IN UNDIVIDED HIGHWAY