**Diagrams and Notes:**

**TYPICAL CLASS I QUARTZ SENSOR**

- **WEIGH IN MOTION (WIM)**

**SITE EXAMPLE**

1. The pavement cuts are to be made with a concrete saw. Create neat lines and remove loose materials. The cut shall be clean and sealed by fully encapsulating it in a sealant acceptable to the Engineer.

2. Run wire into ground box and then directly to cabinet ground bar. Sensors will not be spliced at any time. #8 AWG stranded wire to cabinet with only one splice between any two sensors. Attach #8 AWG stranded wire to cabinet ground bar. Sensors shall be run in the same saw cut as the associated loop. Each loop lead in cable shall be run directly to the ground box or as directed by the Engineer. Wires can be consolidated from the loops of the same configuration, and number of turns for the associated loop. Each loop lead in cable and the associated Quartz sensor pair cable shall be run in their own 1" or 2" PVC conduit from cabinet to ground box. 1" or 2" two 2" PVC conduits or one 3" PVC conduit shall be run from cabinet to ground box. Install 1" or 2" PVC conduit from the edge of the roadway to the ground box to the cabinet. Install two 2" PVC conduits or one 3" PVC conduit as directed by Engineer. Wire or cable shall be run in their own 1" or 2" PVC conduit from cabinet to ground box. Sensors will not be spliced at any time. 3' from the edge of the loop and cabinet. Sensors will not be spliced at any time. Sensors are to be placed in the cut.

3. All wire, lead in and sensors placed in accordance with DMS 6340. The sensors and epoxy will be provided by TxDOT. A separate saw cut shall be made from the ground box to the cabinet. Sensors and epoxy will be provided by TxDOT. 6' SENSORS 6'x6' LOOPS, 6' SENSORS.

4. The loop and sensor location, configuration, and number of turns for the associated loop shall be as indicated on the plans or as directed by the Engineer. Sealing compound shall be in place when wire and epoxy are dry. Epoxy will be provided by TxDOT. The sensors and epoxy will be provided by TxDOT. Sensors are to be placed in the cut.

5. A separate saw cut shall be made from the ground box to the cabinet. Sensors will not be spliced at any time. #8 AWG stranded wire to cabinet with only one splice between any two sensors. Attach #8 AWG stranded wire to cabinet ground bar. Sensors shall be run in the same saw cut as the associated loop. Each loop lead in cable shall be run directly to the ground box or as directed by the Engineer. Wires can be consolidated from the loops of the same configuration, and number of turns for the associated loop. Each loop lead in cable and the associated Quartz sensor pair cable shall be run in their own 1" or 2" PVC conduit from cabinet to ground box.

6. Typical pavement cut for Class I Quartz Sensor is 6'L X 2 1/4" W X 2 3/4" D. The Class I Quartz Sensor is to be installed as per manual furnished and supervised by TxDOT representative. (TxDOT will provide sensors and epoxy.)

7. The Class I Quartz Sensor is to be installed as per manual furnished and supervised by TxDOT representative. (TxDOT will provide sensors and epoxy.)

8. Cabinet must be set back 30' from edge of road as indicated on the plans or as directed by the Engineer. Cabinet will provide sensors and epoxy.)

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