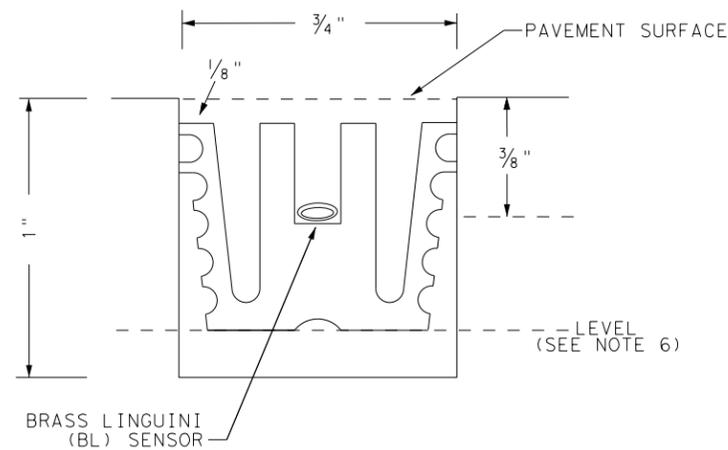
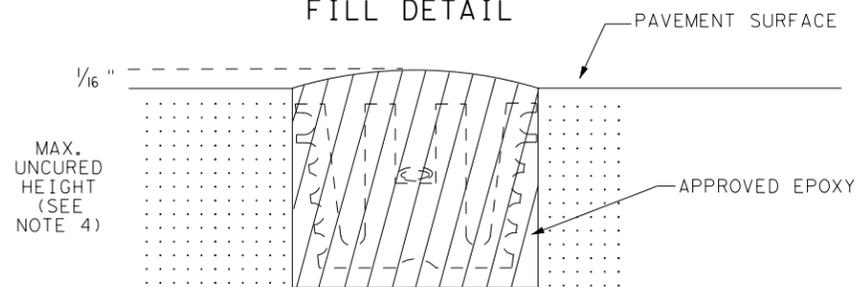


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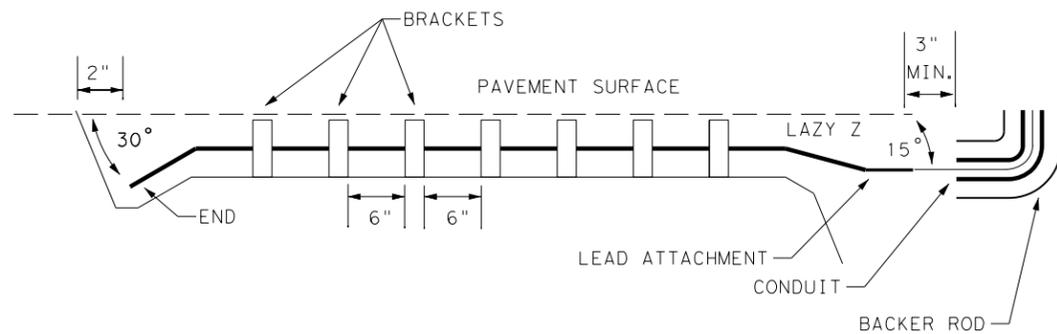
BRACKET DETAIL



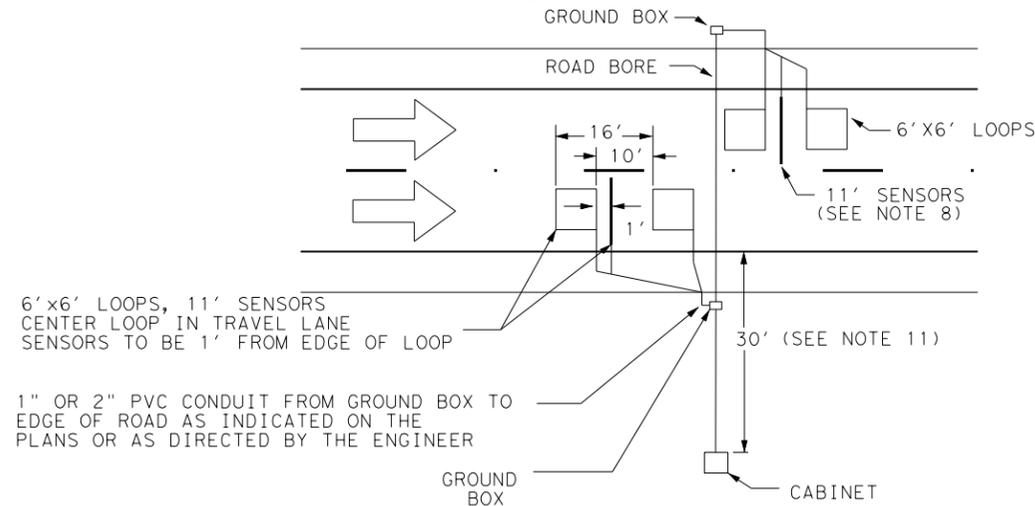
FILL DETAIL



TYPICAL CLASS II (BRASS LINGUINI) CROSS SECTION PIEZOELECTRIC SENSOR



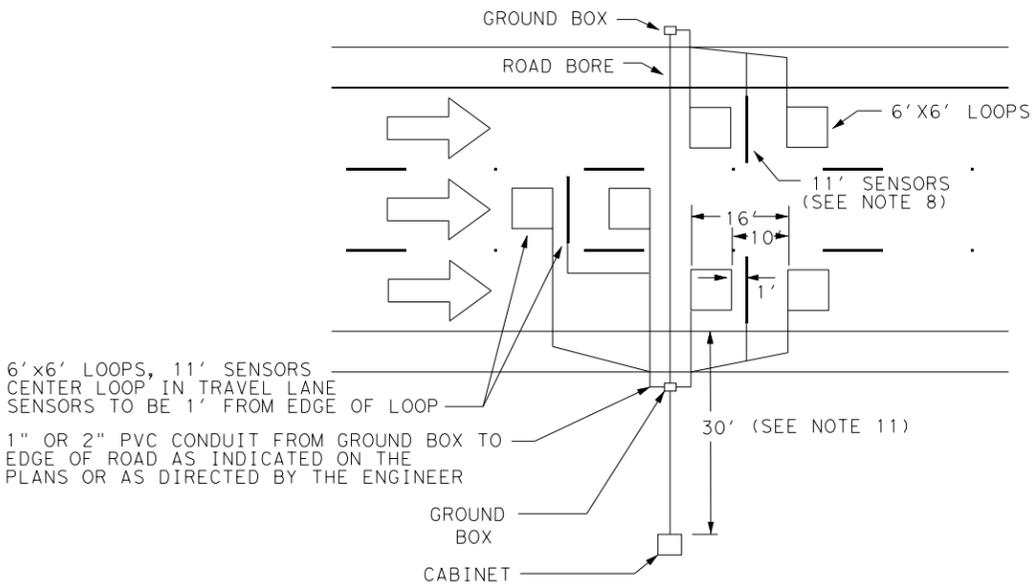
TYPICAL CLASS II PIEZOELECTRIC SITE EXAMPLE



6'x6' LOOPS, 11' SENSORS
CENTER LOOP IN TRAVEL LANE
SENSORS TO BE 1' FROM EDGE OF LOOP

1" OR 2" PVC CONDUIT FROM GROUND BOX TO
EDGE OF ROAD AS INDICATED ON THE
PLANS OR AS DIRECTED BY THE ENGINEER

TYPICAL CLASS II PIEZOELECTRIC MULTIPLE LANE SITE EXAMPLE



6'x6' LOOPS, 11' SENSORS
CENTER LOOP IN TRAVEL LANE
SENSORS TO BE 1' FROM EDGE OF LOOP

1" OR 2" PVC CONDUIT FROM GROUND BOX TO
EDGE OF ROAD AS INDICATED ON THE
PLANS OR AS DIRECTED BY THE ENGINEER

GENERAL NOTES:

1. Make pavement cuts with a concrete saw. Create neat lines and remove loose materials. Clean and dry the cut prior to placing the wire and sealing compound or sensor and epoxy.
2. Run wire into ground box and then directly to cabinet with only one splice between loop and cabinet. Sensors will not be spliced at any time.
3. Seal wire, lead in, and sensors in the saw cut by fully encapsulating in a sealant acceptable to the Engineer. Sealing compound shall be in accordance with DMS 6340. The sensors and epoxy will be provided by TxDOT.
4. The loop and sensor location, configuration, and number of turns for the loop shall be as indicated on the plans or as directed by Engineer. Center loops and sensors in lane unless otherwise directed by Engineer.
5. Make a separate saw cut from each loop to pavement edge or as specified by the Engineer. Run wire or lead in cable for each associated piezoelectric sensor and loop pair together in the same saw cut and then their own 1" or 2" PVC conduit from the edge of the roadway to the ground box or as directed by the Engineer. Install two 2" PVC conduits or one 3" PVC conduit from the ground box to the cabinet unless otherwise directed by Engineer. Consolidate wires from the ground box to the cabinet.
6. Epoxy cured level is flush with pavement +/- 10% tolerance.
7. Inspect the length of brass linguini (BL) piezoelectric sensor and ensure it is at uniform depth and level (not twisted, canted, or bent).
8. Diagrams shown for the Typical Class II Piezoelectric site include 11' sensors. If directed by the Engineer, install 6' Class II sensors.
9. Install sensors 1' from trailing edge of leading loop or as directed by Engineer.
10. Install Class II Piezoelectric Sensor as per manual furnished and supervised by TxDOT representative.
11. Set back cabinet 30' from edge of traveled lane unless otherwise directed by Engineer.

DATE:
FILE:

		Transportation Planning Programming Division	
TRAFFIC DATA COLLECTION PIEZOELECTRIC BRASS LINGUINI (BL)			
TDC (2) - 22			
FILE: tdc(2)-21.dgn	DN:	CK:	DW:
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REVISIONS	DIST		COUNTY
October 2022			SHEET NO.