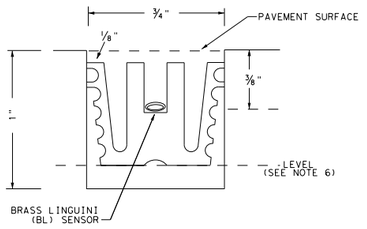
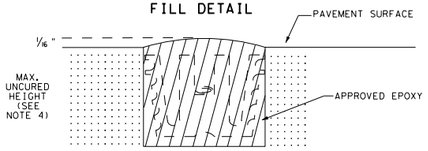
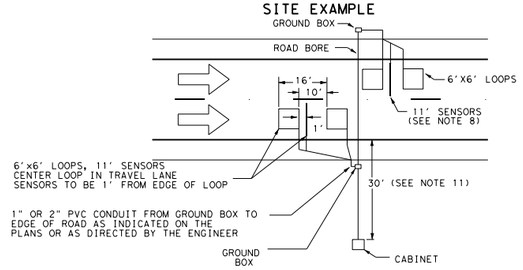
BRACKET DETAIL



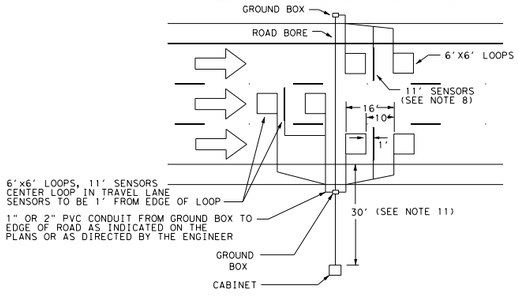
FILL DETAIL



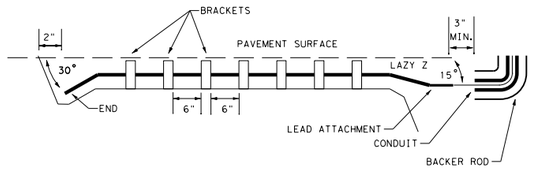
TYPICAL CLASS II PIEZOELECTRIC SITE EXAMPLE



TYPICAL CLASS II PIEZOELECTRIC MULTIPLE LANE SITE EXAMPLE



TYPICAL CLASS II (BRASS LINGUINI) CROSS SECTION PIEZOELECTRIC SENSOR



GENERAL NOTES:

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 dry when the wire and sealing compound or sensor and epoxy are placed in the cut.
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. All wire, lead in, and sensors placed in the saw cut shall be sealed by fully encapsulating it 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. A separate saw cut shall be made from each loop to the edge of pavement or as specified by the Engineer. The wire or lead in cable for each pair of piezoelectric sensors shall be run in the same saw cut as the associated loop. Each loop lead in cable and the associated piezoelectric sensor pair cable shall be run in their own 1" or 2" PVC conduit from the edge of the roadway to the ground box or as directed by the Engineer. Wires can be consolidated from the ground box to the cabinet. Install two 2" PVC conduits or one 3" PVC conduit at the cabinet unless otherwise directed by Engineer.
6. Epoxy cured level is flush with pavement +/- 10% tolerance.
7. Visually inspect the length of brass linguini (BL) piezoelectric sensor to ensure it is at uniform depth along its length and is level (not twisted, canted, or bent).
8. Diagrams shown for the Typical Class II Piezoelectric site include 11' sensors. If, directed by the Engineer, 6' Class II sensors are to be installed.
9. Sensors to be 1' from trailing edge of leading loop or as directed by Engineer.
10. Class II Piezoelectric Sensor is to be installed as per manual furnished and supervised by TxDOT representive.
11. Cabinet must be set back 30' from edge of traveled lane unless otherwise directed by Engineer.

Texas Department of Transportation

Transportation Planning Programing Division

TRAFFIC DATA COLLECTION PIEZOELECTRIC BRASS LINGUINI (BL)

TDC(2)-21

FILE: tdc(2)-21.dgn	DN:	CK:	DW:	CK:		
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REVISIONS						
	DIST	COUNTY			SHEET NO.	

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