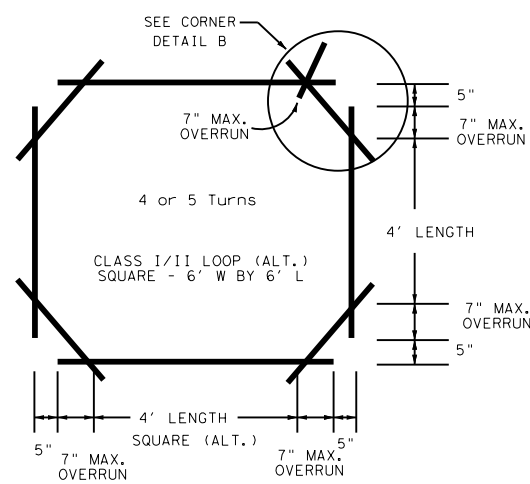
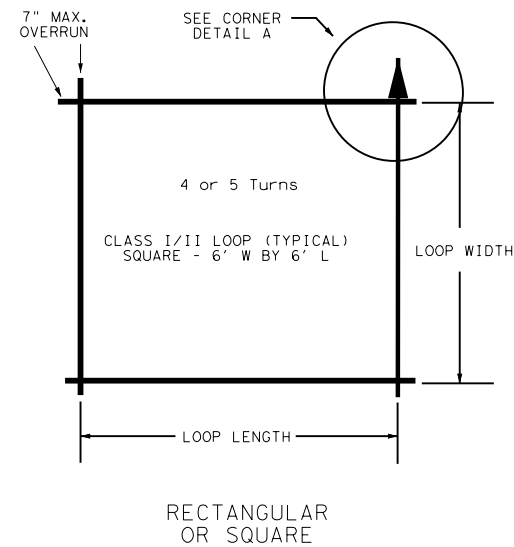


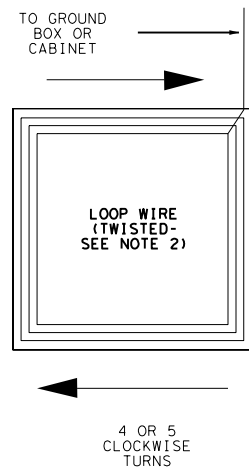
DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

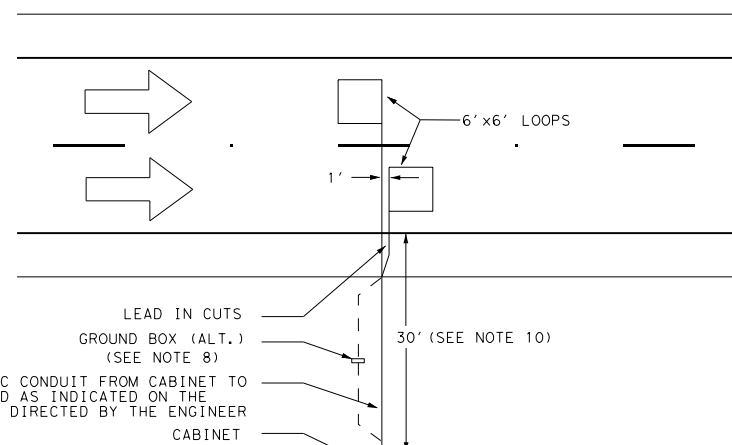
TYPICAL LOOP DETECTOR LAYOUTS (AS SPECIFIED IN PLANS)



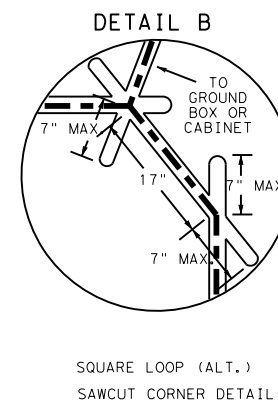
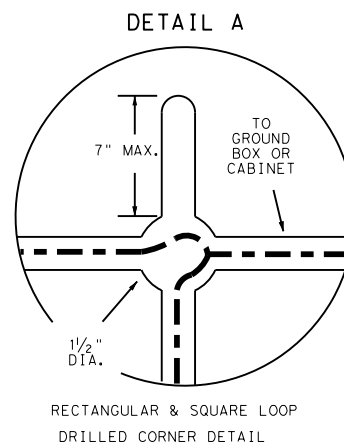
LOOP WINDING DETAILS



TYPICAL VOLUME LOOP ONLY SITE EXAMPLE



TYPICAL CORNER DETAILS



7" OVERRUN BASED ON
24" DIAMETER SAW BLADE

GENERAL NOTES:

- 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 are placed in the cut.
- 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 sensor and epoxy will be provided by TxDOT.
- A separate saw cut shall be made from each loop to the edge of pavement or as specified by the Engineer. Each loop lead in cable shall be run in their own 1" or 2" PVC conduit from the edge of the roadway to either the ground box or cabinet 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.
- Loop wire shall be 14 AWG IMSA 51-3 Stranded 600V Type XHHW. Wire from the loop to the ground box or cabinet shall be twisted a minimum of 5 turns per foot. No splices shall be permitted in the loop or in the run to the ground box.
- The home run cable, if necessary for the loop, from the ground box to the cabinet shall be 14 AWG Stranded Copper twisted shielded pair with 600V polyethylene insulation and jacket and shall be soldered to the loop wire. The solder joints shall be sealed with Scotchcast or other method acceptable to the Engineer.
- The loop location, configuration, and number of turns shall be as indicated on the plans or as directed by the Engineer.
- Loops in asphalt shall have 4 turns and concrete shall have 5 turns unless otherwise directed by the Engineer.
- Splices between the loop lead in cable shall be made only in the ground box or as directed by the Engineer. Run wire into ground box then directly to cabinet with only one splice between loop and cabinet.
- Refer also to LD(1) Loop Detector Installation Details.
- Cabinet must be set back 30' from edge of traveled lane unless otherwise directed by Engineer.

		Transportation Planning Programming Division	
TRAFFIC DATA COLLECTION LOOP DETAILS			
TDC (3) - 21			
FILE: tdc(3)-21.dgn	DATE:	CHK:	CHK:
© TxDOT August 2021	CONT:	SECT:	HIGHWAY:
REVISIONS		DIST:	SHEET NO.: