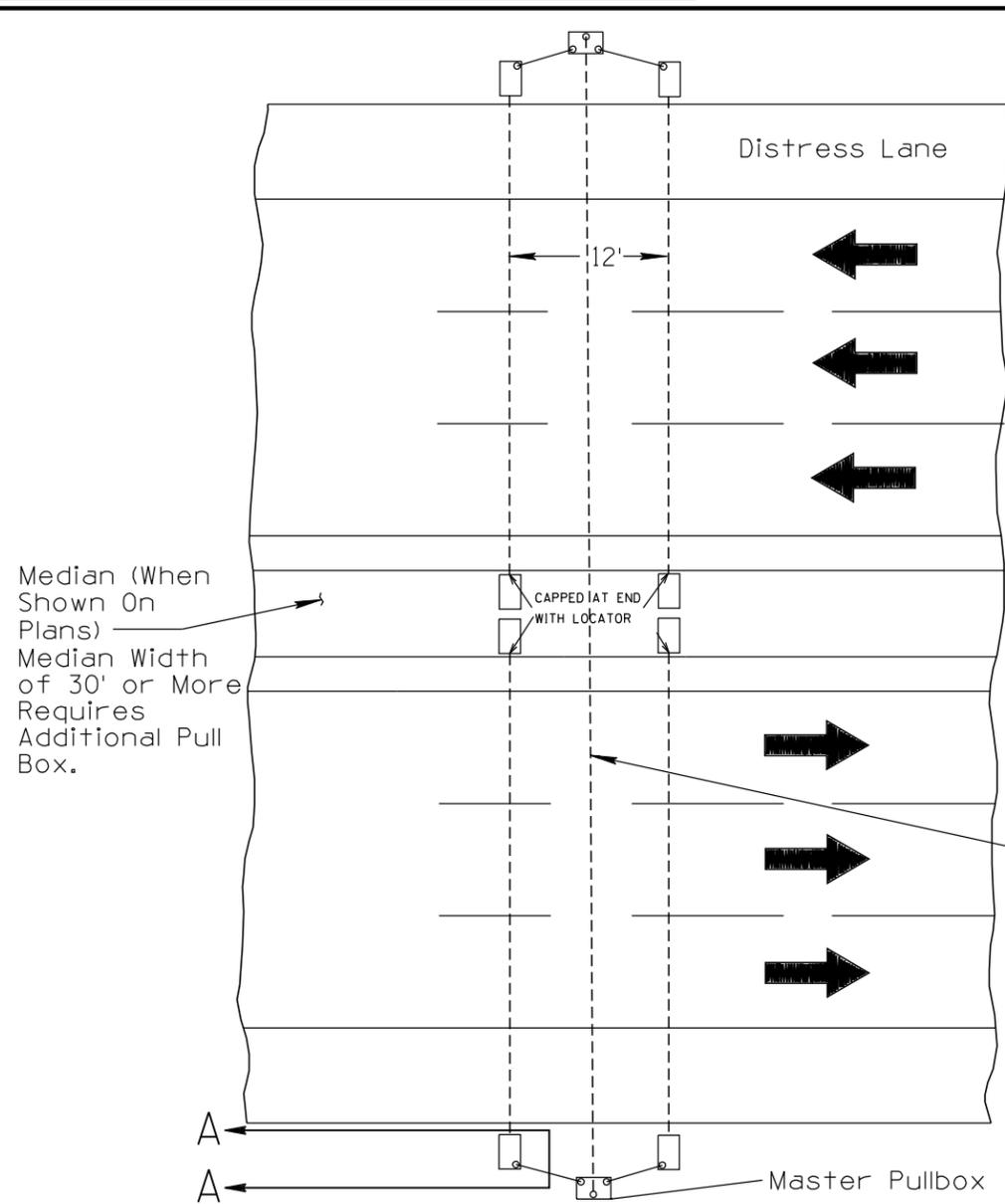
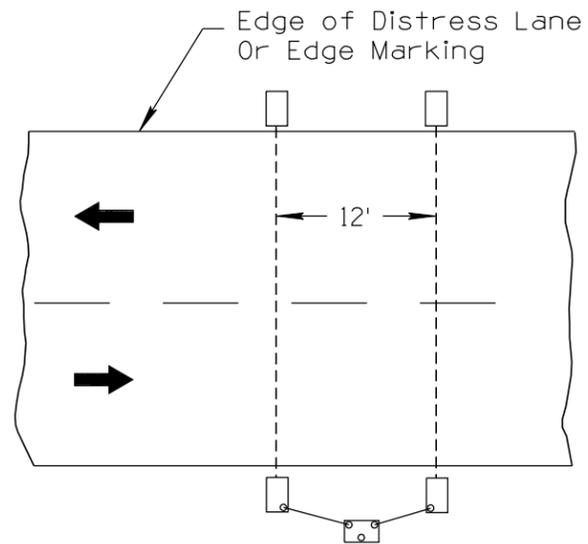


NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	ORIGINAL ISSUE	J. GEIST	9/08
2			
3			
4			

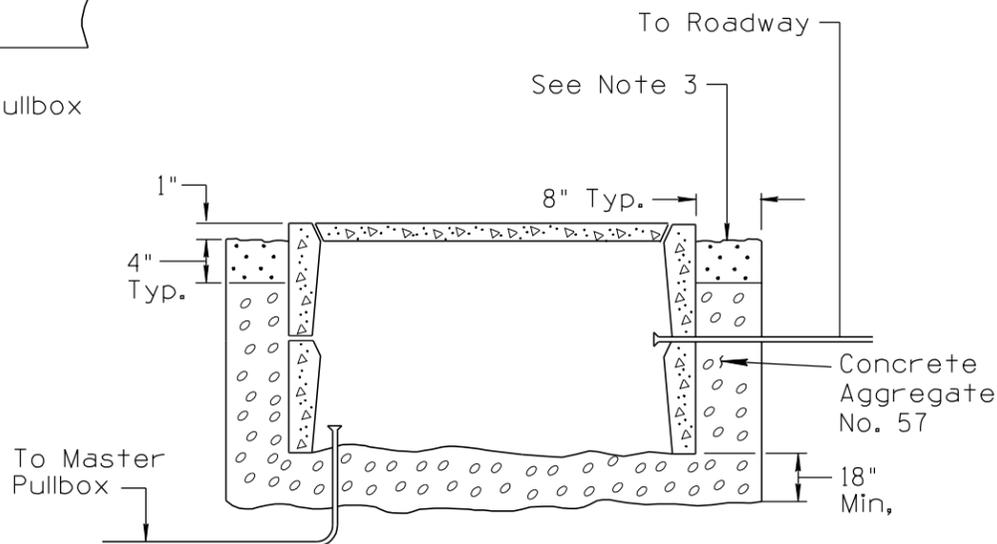


MICROLOOP INSTALLATION IN MULTI-LANE DIVIDED HIGHWAY

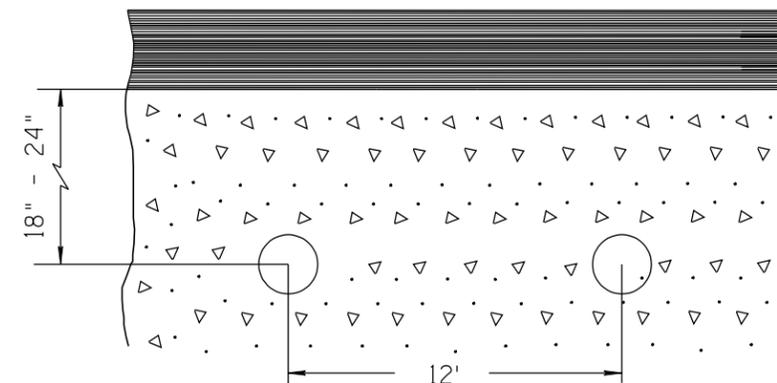


MICROLOOP INSTALLATION IN UNDIVIDED HIGHWAY

Bore shot for single cabinet installations



CONDUIT TERMINATION SECTION A-A



MICRO-LOOP DIRECTIONAL DRILL BORING

NOTES:

1. Microloop installations require two parallel directional drilling bores 12' apart, leading edge to leading edge, and 18" to 24" beneath the roadway for each direction of the roadway.
2. Microloop speed monitoring systems require 2 Microloops sensor sets per conduit per lane, one in the leading conduit and one in the lagging conduit, evenly distributed across the lane. (A Microloop sensor set is defined as a 1, 2, or 3 probe sensor set that is wired in series at the factory, resulting in a single sensor).
3. Backfill with excavated material and thoroughly tamp.
4. For cabinet and foundation standard drawings and details, refer to T.S. 7-4 and T.S. 4-1
5. All excavated material not reused shall be properly disposed of.
6. Where pull boxes are installed in concrete areas, 1/2" felt shall be used as an expansion joint.
7. Where pull boxes are used to terminate conduit for the directional drilling, an extension pull box is to be used.
8. Refer below to the GTT Canoga Traffic Sensing System Technical Bulletin describing Directional Drilling for Installing Conduit for 702 Non-invasive Microloops.
9. Directional Drilling Contractor Certification Course must be completed prior to installation.
10. Contact MPD Data Analysis at (602-712-8585) or (602-712-7172) no less than 7 working days prior to installation of the loop detectors. MPD Data Analysis will have a technician available to oversee the installation, and to answer any questions pertaining to the proper installation and layout of the Microloop components.

NOT TO SCALE

DESIGN APPROVED <b>SIGNATURE ON FILE</b>	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS & LIGHTING STANDARD DRAWINGS	REV. 9/08
	MICROLOOPS FOR SPEED/VEHICLE CLASS	DRAWING NO. T.S. 7-9