

Michigan Damage Prevention Board

Best Practice 2014-02

Requirements for Detection of New Facilities for Purposes of Locating

MDPB Best Practice

All facilities must be constructed so that they can be located by one of the following methods:

- For electrically conductive facilities – copper, steel, ductile iron, galvanized – a locator can be attached to the facility to place a low voltage charge and then locate the facility, therefore the facility itself allows for detection when in use.
- Facilities made of inert materials – concrete, fiber and plastic, which comes in many forms PVC (sewer and water), ABS (storm and wastewater), PP (chemical waste and brine), PE (Natural Gas lines), PVDF (wastewater to gas) – require some form of assistance to allow detection when in use, such as marker balls **for trenched-in materials**.
- Survey data, referenced to a USGS Coordinate System or direct survey grade GPS points, and in accordance with the “ASCE 75-22 Standard Guideline for Recording and Exchanging Utility Infrastructure Data” or any other set of national standards that is available, by a licensed surveyor at the time of construction. The data can be used to define the location of the facility through use of same method used to capture the data.

PA174 Reference

Section 7 (8)

New facilities built after the effective date of this act shall be constructed in a manner that allows their detection when in use.

Discussion

PA174 states that the facility must be “constructed in a manner that allows their detection when in use.” The definition of “detection” is “the act of discovering or the fact of being discovered.” The definition does not include the requirement that the approximate location of the facility can be determined, only that it exists.

The MDPB position is that the intent of PA174 is to require that the facility be constructed in a manner so that its location can be determined. This will allow the staker to locate the facility in order to meet the requirements of PA174 Section 7, (1).

Use of the “manhole to manhole” method or use of maps (other than data from licensed surveyor) is not adequate to meet PA174 requirements.

References

None

Submission Date: September 19, 2014

Adoption Date: October 23, 2014

Revision Date: March 27, 2025