

Michigan Damage Prevention Board

Best Practice 2016-02

Large Project Staking

MDPB Best Practice

1. Excavator notifies MISS DIG 811 via OneCallAccess account (external plus user) or by phone at 8-1-1 and identifies the ticket type as a Project 180-Day ticket.
 - Note: Excavator must provide an onsite contact name and phone number in case the locator has any questions about the locate.

Project 180-Day definition and guidelines – Larger jobs with over 21 days of digging to complete and each ticket must meet the below guidelines. May be placed by MISS DIG 811 operators or external plus users.

- Urban: Minimum 20,000 sq. ft. up to 1,742,400 sq. ft. with a maximum of 1,320 linear feet in any direction.
 - One street per ticket
 - Divided roads: traffic bound in each direction on a separate ticket

A separate ticket is required for each of the below guidelines.

- Up to 200ft radius of intersections **OR**
- Up to 10 single-address locations (ex. Residential lots in a subdivision or mobile home community) per ticket within 1320 linear ft. **OR**
- Up to 5 buildings (ex. Larger buildings that contain more than one address, or large commercial properties that have multiple buildings that all share the same address) within 1320 linear ft.

- Rural: Minimum 50,001 sq. ft. up to 6,969,600 sq. ft. with a maximum of 2,640 linear ft in any direction.

- One street per ticket
- Divided roads: traffic bound in each direction on a separate ticket

A separate ticket is required for each of the below guidelines.

- Up to 200ft radius of intersections **OR**
- Up to 10 single-address locations (ex. Residential lots in a subdivision or mobile home community) per ticket within 2640 linear ft. **OR**

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- Up to 5 buildings (ex. Larger buildings that contain more than one address, or large commercial properties that have multiple buildings that all share the same address) within 2640 linear ft.
- Note: Subcontractors are required to call in separate ticket for their excavations

Example: if there was road work on Gratiot Rd both east and west bound it would require two separate tickets due to the divided road.

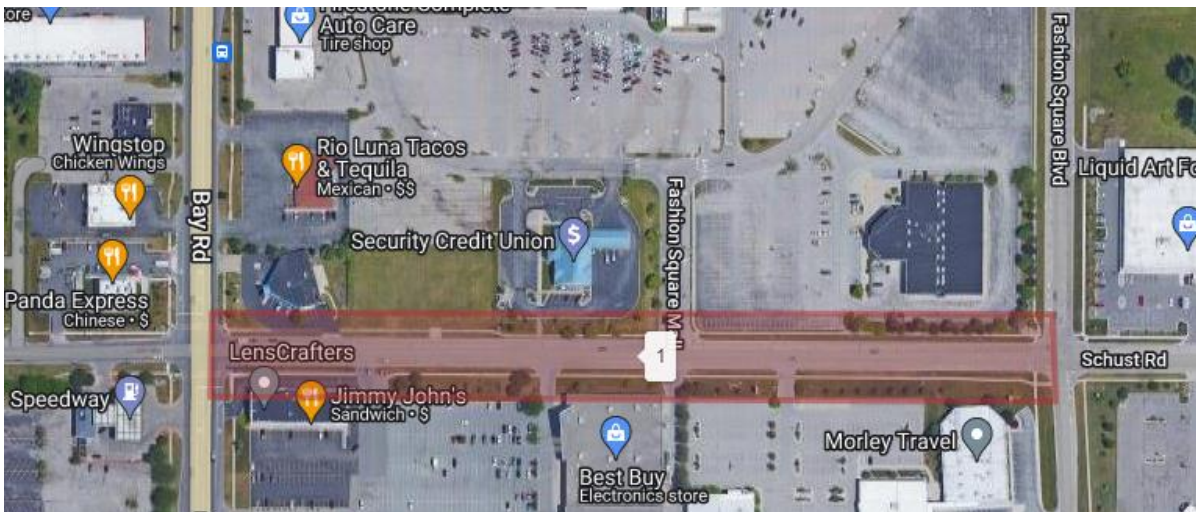


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Example: If you needed a 200' radius of an intersection located and staking along a road it would require two separate tickets.



2. The locator receives the ticket and stakes the whole scope of the ticket by the due date and time or mutual coordinates with the excavator and documents the date/time of discussion, full name of person contacted, and (if applicable) details outlining the agreement specifics to include any

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deviations from the ticket start date/time, partial staking, incremental location scope, etc and updates positive response accordingly.

- Note: [Offset Staking](#) may be used to help the excavator maintain knowledge of facilities in the area.
- Note: Excavator makes every attempt to maintain the markings.
- Note: If the scope of the project is not clear the locator calls the onsite contact on the ticket for clarification.

3. When / If the marks are “destroyed” or there is an “unmarked facility”, the excavator notifies MISS DIG 811 via OneCallAccess account (external plus user) or by phone at 8-1-1 and retransmits the ticket.
 - Note: The exact location of the “destroyed markings” or the “unmarked facility” is identified/added in the ‘Remarks – Additional information’ field of the retransmitted ticket. Only the specific utilities that are needed for remarking the location should be selected on the ticket and entered in the ‘Remarks – Additional information’ field. Utilities are not required to restake the entire project after original staking is completed (except for specific locations due to additional assistance or destroyed marks.)

Unmarked Facilities - When there is a lack of positive response, visible evidence of a facility with no visible marks, or incomplete markings by the work legal start date.

- 3 business hours

Additional Assistance - The site was marked, and the contractor has hand dug as required by law, but no line was found within the approximate location of the marking.

- 3 business hours

Destroyed Markings - When markings are removed, destroyed, or are no longer visible or reliable.

- 24 business hours

4. Locator receives the retransmitted ticket and locates what is specified in the “Remarks – Additional information” field or station code they received on the retransmitted ticket within the specified timeframe.
5. Upon completion: Locator updates positive response and puts detailed remarks of what was located and when on the retransmitted ticket in their ticket management system and this documentation is available upon request.

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6. Before excavation begins the excavator must check positive response to ensure all staking is complete using [Positive Response Ticket Search \(missdig811.org\)](http://missdig811.org) or the MISS DIG 811 app. If there is a response of mutual coordination and the excavator did not agree to that response they can dispute the ticket and it will be treated as a retransmit. All disputed tickets will be sent to the appropriate facility owner contact to be notified.
- Note: For additional facility owner and locate contractor contact information visit [Resources - MISS DIG 811](#) and select Member Contacts.

Example:

Original Staking Request



Excavator submits staking request: “Locate both sides of E Monroe Rd (M-46) from 100 feet west of N Baldwin Rd to 100 feet east of Bush Rd for road project”

- Utilities locate all facilities within scope of ticket prior to dig start date
- Excavator hand exposes all utilities where planned excavations are within 4' caution zone of marked utilities

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Day One (Dig Start Date) --- Additional Assistance



Excavator cannot find electric at SW corner of N Baldwin/E Monroe.

- **Additional Assistance** - The site was marked, and the contractor has hand dug as required by law, but no line was found within the approximate location of the marking.
 - 3 business hours
- Restake request submitted:
- **Note:** Only request the utilities that need to be restaked and enter notes in the 'Remarks - Additional information' field
 - "(name of utility) needed at SW corner of Palmer and Fulford." (Specify name of utility in parenthesis)
- Electric staker responds within three hours to provide assistance at SW corner
- Excavator hand exposes all utilities where planned excavations are within 4' caution zone of marked utilities

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Also Day One – Unmarked Facility



Excavator sees phone pedestal in curb lawn at 123 E Monroe Rd

- **Unmarked Facilities** - When there is a lack of positive response, visible evidence of a facility with no visible marks, or incomplete markings by the work legal start date.
 - 3 business hours
- Restake request submitted:
- **Note:** Only request the utilities that need to be restaked and enter notes in the 'Remarks - Additional information' field
 - "Phone only -- pedestal with no marks at 123 E Monroe Rd "
- Phone staker responds within 3 hours to mark facilities
- Excavator hand exposes all utilities where planned excavations are within 4' caution zone of marked utilities

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Day Five – Destroyed Marks



Milling machine removed marks on north side of road. Digging for catch basins at 125 and 129 E Monroe Rd.

- **Destroyed Markings** - When markings are removed, destroyed, or are no longer visible or reliable.
 - 24 business hours
- Restake request for destroyed marks:
- **Note:** Only request the utilities that need to be restaked and enter notes in the 'Remarks - Additional information' field
 - "All utilities needed due to destroyed marks. Locate road and right-of-way on north side of road at 125 and 129 E Monroe Rd for installation of catch basins."
- Utilities respond within 24 hours to stake facilities at the two addresses
- Excavator hand exposes all utilities where planned excavations are within 4' caution zone of marked utilities

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Day Eight – Destroyed Marks



New crew (same excavating company) at site to grade to remove sub base on north side of E Monroe Rd—marks had been destroyed by milling machine.

- **Destroyed Markings** - When markings are removed, destroyed, or are no longer visible or reliable.
 - 24 business hours
- Restake request submitted for destroyed marks:
- **Note:** Only request the utilities that need to be restaked and enter notes in the 'Remarks - Additional information' field
 - "All utilities needed due to destroyed marks – locate under traffic lanes on north side of E Monroe Rd, from N Baldwin Rd to Bush Rd for grading"
- Utilities respond within 24 hours to stake all facilities under north traffic lanes
- Excavator hand exposes all utilities where planned excavations are within 4' caution zone of marked utilities

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Day 18 – Destroyed Marks



Excavator's crew goes to northwest corner of E Monroe Rd and Bush Rd to install catch basin – original marks no longer visible

- **Destroyed Markings** - When markings are removed, destroyed, or are no longer visible or reliable.
 - 24 business hours
- Restake request submitted for destroyed marks:
- **Note:** Only request the utilities that need to be restaked and enter notes in the 'Remarks - Additional information' field
 - "All utilities needed at NW corner of E Monroe Rd and Bush Rd due to destroyed marks for installation of catch basin "
- Utilities respond within 24 hours to stake facilities at NW corner
- Excavator hand exposes all utilities where planned excavations are within 4' caution zone of marked utilities

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Day 59 - Subcontractor



Subcontractor completing restoration work on north and south side of E Monroe Rd

- Subcontractor required to call in separate staking request for restoration work
- Utilities will stake facilities on south side of Palmer within three days
- Excavator hand exposes all utilities where planned excavations are within 4' caution zone of marked utilities

PA174 References

460.725 Section 5 (3) A ticket is valid for 21 days from the start date of the excavation or blasting on the ticket as identified by the excavator, except that a ticket is valid for 180 days from the start date if the dig notice indicates that the proposed excavation or blasting will not be completed within 21 days from the start date.

PA174 References (continued)

460.725 Section 5 (5) Except as otherwise provided in this subsection, before blasting or excavating in a caution zone, an excavator shall expose all marked facilities in the caution zone by soft excavation. If conditions make complete exposure of the facility impractical, an excavator shall consult with the facility owner or facility operator to reach agreement on how to protect the facility. For excavations in a caution

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zone parallel to a facility, an excavator shall use soft excavation at intervals as often as reasonably necessary to establish the precise location of the facility. An excavator may use power tools and power equipment in a caution zone only after the facilities are exposed or the precise location of the facilities is established.

460.725 Section 5 (7) An excavator shall provide notification to the notification system if facility markings are destroyed or covered by excavation or blasting activities or if a ticket expires before the commencement of excavation. If a ticket expires before the commencement of excavation, an excavator shall provide a new dig notice to the notification system, and comply with subsection (1).

460.725 Section 5 (8) An excavator shall provide notification to the notification system requesting additional assistance if the location of a marked facility within the approximate location cannot be determined.

460.725 Section 5 (9) An excavator shall provide immediate additional notice to the notification system and stop excavation in the immediate vicinity if the excavator has reason to suspect the presence of an unmarked facility due to any 1 of the following:

- (a) Visible evidence of a facility with no marks visible.
- (b) Lack of a positive response to a ticket.
- (c) A positive response from a facility owner or facility operator indicating the presence of a facility with no marks visible.

460.727 Section 7 (4) Upon receiving a notification during business hours from an excavator through the notification system of previous marks being covered or destroyed, a facility owner or facility operator shall mark the location of a facility within 24 hours, excluding all hours on nonbusiness days.

460.727 Section 7 (5) If a facility owner or facility operator receives a request under section 5(8) or (9), that facility owner or facility operator shall provide additional assistance to an excavator within 3 hours of a request made by the excavator during business hours. An excavator and a facility owner or facility operator may agree to an extension of the time for additional assistance. If a request for additional assistance is made at a time when the additional assistance cannot be provided during normal business hours or assistance is required at a remote rural location, the response time shall be no later than 3 hours after the start of the next business day or a time based on mutual agreement.

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Discussion

Coordination is necessary between excavator and stakers throughout large construction projects. This best practice summarizes the intent of how the requirements of PA174 should be implemented by excavators and contractors to achieve the necessary coordination.

The process is illustrated in Staking for Large Projects_final.pptx which is posted to MDPB website.

References

Staking for Large Projects_final.pptx (see Best Practices posted to MDPB website)

Submission Date 10/17/2016

Adoption Date 12/08/2016

Revision 1 Date 09/01/2024

Revision 2 Date _____

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