

Multi-Polygon Dig Sites Ticket Information

Overview

Excavators can now draw multiple dig site (a.k.a. “work”) polygons on a single ticket to indicate multiple dig sites in the area. Previously, the entire job was covered by a single polygon, regardless of the number of separate dig sites within the scope of work. Written instructions were then required to further clarify precisely where the digging would occur.

Jobs that include multiple dig sites are best represented with multiple polygons. This includes work around multiple utility poles, signposts, and trees—to name a few. This feature is an enhancement of the existing virtual white lining concept and allows excavators to precisely depict the work areas on a single ticket. This reduces the need to provide a written description of the dig site or split tickets for multiple locations. Virtual white lining is an important tool, as it provides a clear and permanent record of the proposed excavation area and expected extent of the locate. The maximum amount of dig site polygons per ticket is 15, and these multiple dig site polygons must still comply with the scope of work requirements per ticket type. Information on scope of work can be found at reference.missdig811.org

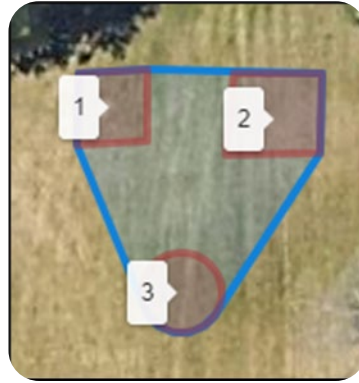
The dig site polygon(s) must cover the entire dig site and be as precise and accurate as possible. It is used by member facility owners/operators to determine if the job conflicts with their facilities. An inaccurate polygon may prevent the dig site from being adequately marked.



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Work Polygon vs. “Blue Polygon”

When more than one polygon is created on the ticket entry map, an area highlighted in blue that connects the polygons will appear on the ticket entry screen. The blue highlighted area is system-generated and referred to as “bounding geometry.” It is the minimum area between the individual dig site polygons. The total area of the job is calculated using the blue bounding geometry polygon and not the red dig site polygons.



The blue polygon is not used by facility owners/locators to determine the dig site; it is not transmitted with the ticket. **The red dig site polygon(s) determines which facility owner/operator members receive the request and which areas are to be located.** When a dig site polygon/circle intersects with a facility owner/operator member’s area of interest (not seen by excavators), that member (or their contract locator) receives the ticket. Inaccurate dig site polygons may prevent the correct facility owner/operator members from receiving the ticket.

Red Dig Site Polygon	Blue Bounding Geometry
Drawn by the excavator or MISS DIG 811 NSR	System-generated
Represent the dig site	Minimum area between polygons
Members are notified based on dig site polygon	Used to calculate the total area of the job
Must be accurate and cover entire dig site	Not transmitted to facility owner/operator members



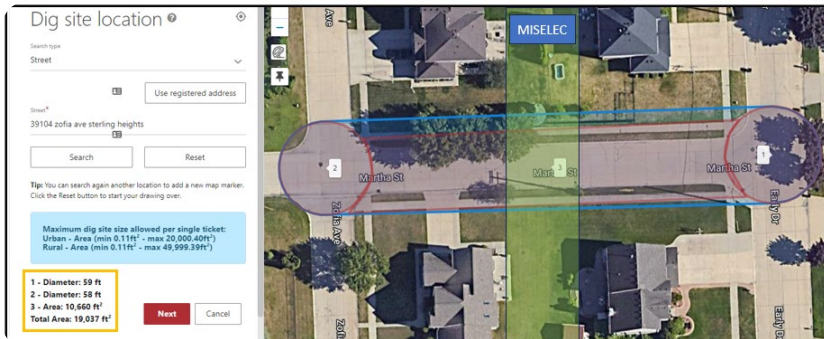
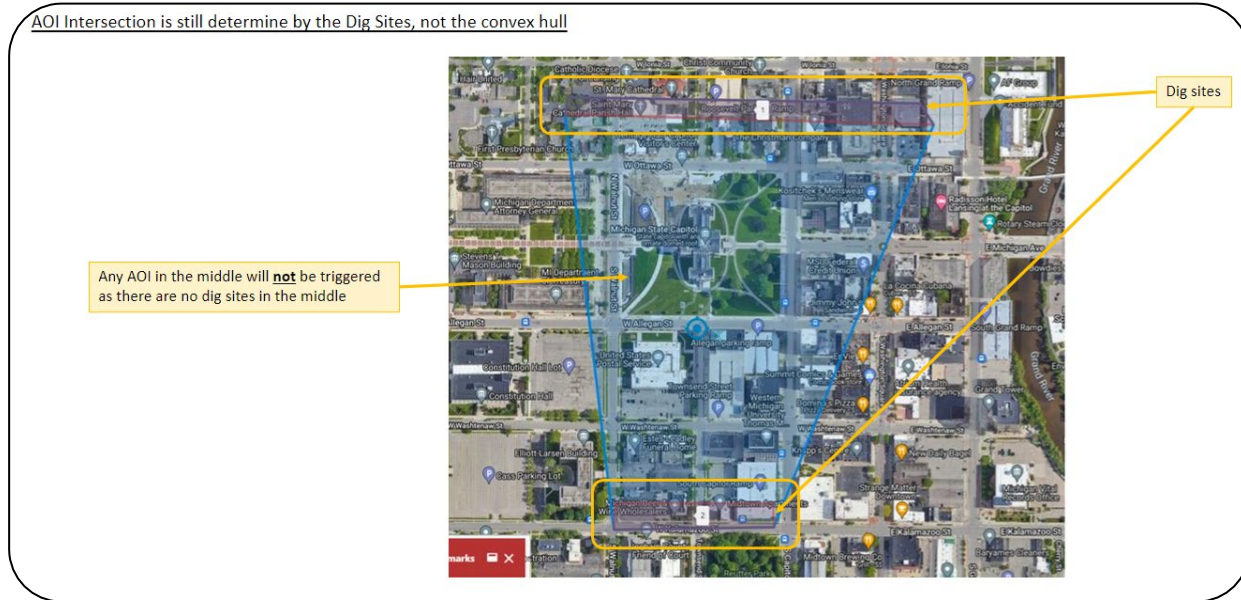
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Impact on Facility Owner/Operator and Contract Locator Members

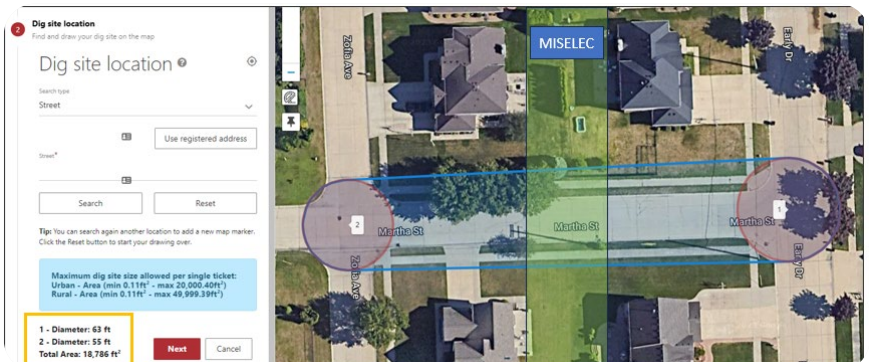
As a facility owner/operator or contract locator associate member with the Private Locate add-on, you may receive a ticket with multiple dig sites if the area of interest (AOI) for one or more of your stations intersects with one or more of the work polygons.

You will not receive the ticket if your AOI is located between work polygons but does not intersect.

AOI Intersection is still determine by the Dig Sites, not the convex hull



Member station **MISELEC** will **NOT** receive this ticket based on the lack of intersection of their AOI with the dig site polygon.





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IT'S IMPORTANT TO REMEMBER THAT NOT EVERY TICKET RECEIVED WILL CONTAIN MULTIPLE DIG SITE POLYGONS.

POSITIVE RESPONSE WILL STILL BE PERFORMED ON THE TICKET AS A WHOLE AND NOT PER DIG SITE POLYGON.

Ticket Notification Settings

There will be minor impacts on ticket notification settings.

- GIF image attachments and PDF attachment map images will now show multiple objects on a single ticket when used by an excavator.

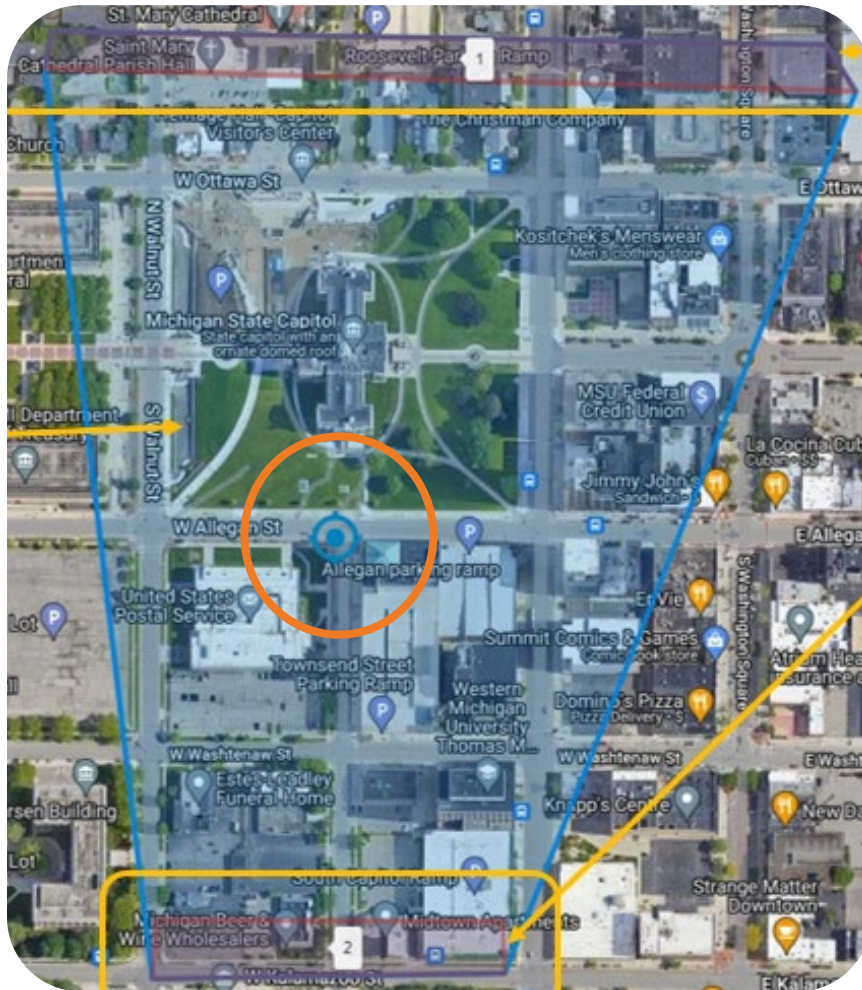
Image output – both GIF and PDF

- Some development may be required to accept the multi-object GML attachment for full benefit of this feature. If you receive GML attachments, testing is available through the Member Services Department to ensure proper receipt.

GML output for Facility Owners

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- The lat./long. coordinates provided on the ticket currently denote the centroid of a single dig site polygon. With the implementation of multiple polygon dig sites, the amount of these coordinates will not increase; the coordinates will represent the centroid of the bounding geometry and not be provided for each individual dig site polygon. **These coordinates are not intended for use in screening or locating the dig site(s); they are provided to facilitate map push-pinning and general location information.** See the image below for reference: the lat./long. coordinates (circled in orange) represent the centroid of the bounding geometry (blue).





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Benefits

- Reduced over-notification, which also means less locating
- Less time reading work site descriptions
- Quicker identification of exact excavation areas on a single ticket
 - Having an accurate “virtual white line” before arriving on site
 - Knowing exactly where locating is required with multiple precise dig sites on a single ticket
- Reduced locate times, as drawn dig sites are now specific rather than “entire locations”
 - Clearer and quicker responses on a ticket
- Better screening for multi-dig sites
- Increased damage prevention efforts with more precise dig site polygons on a single ticket

Contact the Member Services Department at membersupport@missdig811.org or (800) 482-7161 with any questions you may have. As always, please contact the excavator should questions arise about the ticket details or work polygon(s).