



# Multi-Polygon Dig Sites For Excavators





# Multi-Polygon Dig Sites For Excavators

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# Multi-Polygon Dig Sites For Excavators

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## Overview

Each request (ticket) placed through the MISS DIG 811 system includes a map of the dig site. The excavator creating the ticket draws a polygon(s) over the dig site to explain where digging will occur. If a member facility owner/operator has facilities at the dig site, they receive a copy of the ticket.

The 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.

Member facility owners/operators also map Areas of Interest (AOI) based on the location of their facilities. Tickets are transmitted to member facility owners/operators when the dig site polygon created by the excavator intersects with their Area of Interest (AOI). If the dig site polygon is inaccurate, the system may fail to notify the correct facility owners/operators.

Previously, the excavator covered the entire job with a single polygon, regardless of the number of separate dig sites. Written instructions were then required to further clarify precisely where the digging would occur.

We are pleased to introduce the addition of multi-polygon dig sites to the OCA map. Jobs that include multiple dig sites would be best represented with multiple polygons. This includes work around multiple utility poles, signposts, trees, to name a few. Users may create up to 15 polygons that cover each dig site instead of one oversized polygon connecting them all.

The information provided in this document is also contained in the OCA External User Guide. This document may be found on the Excavation Pro's Reference Material page on the MISS DIG 811 website.

## Creating Multiple Polygons

### Creating Multiple Polygons

Multiple polygons/circles may be created for jobs with multiple dig sites. Up to 15 polygons may be created per ticket.

To create a polygon, select either the polygon or circle tool.



**Polygon Tool-** The polygon tool is the more versatile drawing tool as it can be used to draw most shapes. Once the tool is activated by clicking on the polygon icon, click on the map to begin drawing. Move the mouse to each corner of the shape and click to change directions. To complete drawing, click on the beginning point.



**Circle Tool-** Best suited for covering a dig site that is around smaller or circular objects. Once the tool is activated, click at the center of the desired object. Hold the left clicker of the mouse and drag the mouse out to the desired distance and release. Be sure to read the measurement of the circle. If it is measuring in diameter, the total diameter must be doubled to equal the radius of the object.

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After the first shape is drawn, click either the polygon or circle tool to reactivate it and draw the next shape on the map. Repeat the process for each additional shape. Each polygon should cover the associated dig site completely while being as precise as possible.

Drawing an oversized polygon is discouraged. If the polygon(s) cover areas outside/beyond of the proposed dig site, a description of the precise dig site must be written in the Additional Information-Remarks field at the bottom of the ticket.

Each polygon is assigned a number. Polygon numbers are NOT transmitted with the ticket, so facility owners do not see the labels. Do not refer to the numbers in the Remarks field of the ticket.

**\*\*Members will continue to post responses to the entire ticket, not each polygon individually.**

MAP IN OCA



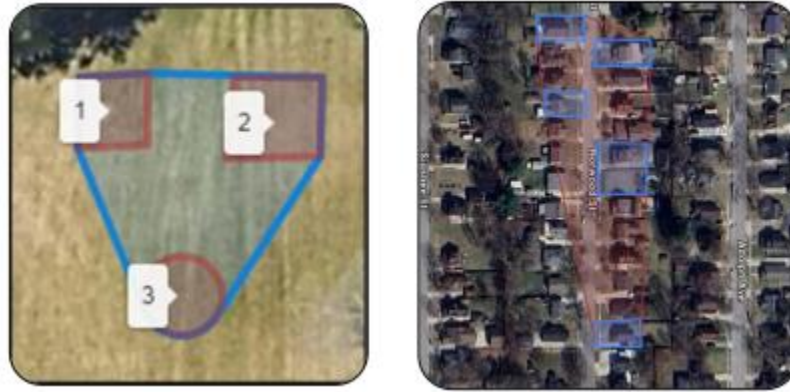
MAP ON TRANSMITTED TICKET



# Multi-Polygon Dig Sites For Excavators

## Work Polygon VS Bounding Geometry

When more than one polygon is created on the ticket entry map, an area that connects the polygons will appear on both the ticket entry screen in OneCallAccess (OCA) and the module in DamagePreventionPortal (DPP) from which you may be viewing a ticket. This 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 bounding geometry polygon and not the dig site polygons.



The bounding geometry is not used by facility owners/locators to determine the dig site; it is not transmitted with the ticket. The 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 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.

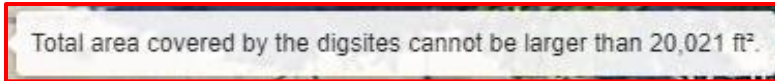
Dig Site Polygon	Bounding Geometry
Drawn by the excavator or MISS DIG 811 NSR	System Generated
Represent the dig site	Minimum area between polygons
Members are notified based on dig site polygon	Used to calculate the total area of the job
Must be accurate & cover entire dig site	Not transmitted to facility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

- In OneCallAccess, the dig site polygons are displayed in red while the bounding geometry is displayed in blue.
- In DamagePreventionPortal, it is the opposite: Dig site polygons are displayed in blue while the bounding geometry is displayed in red.
- On the PDF and GIF attachment, the work polygons will be displayed in red and there will be no bounding geometry present.

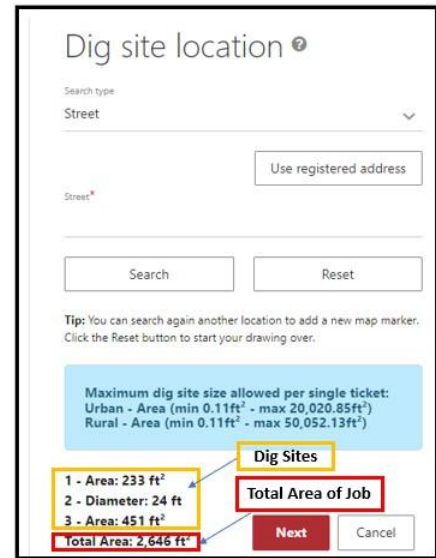
# Multi-Polygon Dig Sites For Excavators

The measurement/area of each circle/polygon and the total area of the job may be viewed in the Dig Site Location section. This will include the diameter of a circle, the area of a polygon, and the total area of the blue highlighted area.

If the total area, highlighted in blue, does not meet the size requirements for the ticket type selected and work zone (urban or rural), an error will appear on the screen indicating the error.



It is up to the excavator to ensure their job meets the linear footage requirements by using the measurement tool. (1320 ft in urban areas and 2640 ft in rural areas)



**Dig site location** ?

Search type: Street

Use registered address

Search

Reset

**Tip:** You can search again another location to add a new map marker. Click the Reset button to start your drawing over.

**Maximum dig site size allowed per single ticket:**  
 Urban - Area (min 0.11ft<sup>2</sup> - max 20,020.85ft<sup>2</sup>)  
 Rural - Area (min 0.11ft<sup>2</sup> - max 50,052.13ft<sup>2</sup>)

Dig Sites
1 - Area: 233 ft <sup>2</sup>
2 - Diameter: 24 ft
3 - Area: 451 ft <sup>2</sup>
<b>Total Area: 2,646 ft<sup>2</sup></b>

**Total Area of Job**

Next Cancel

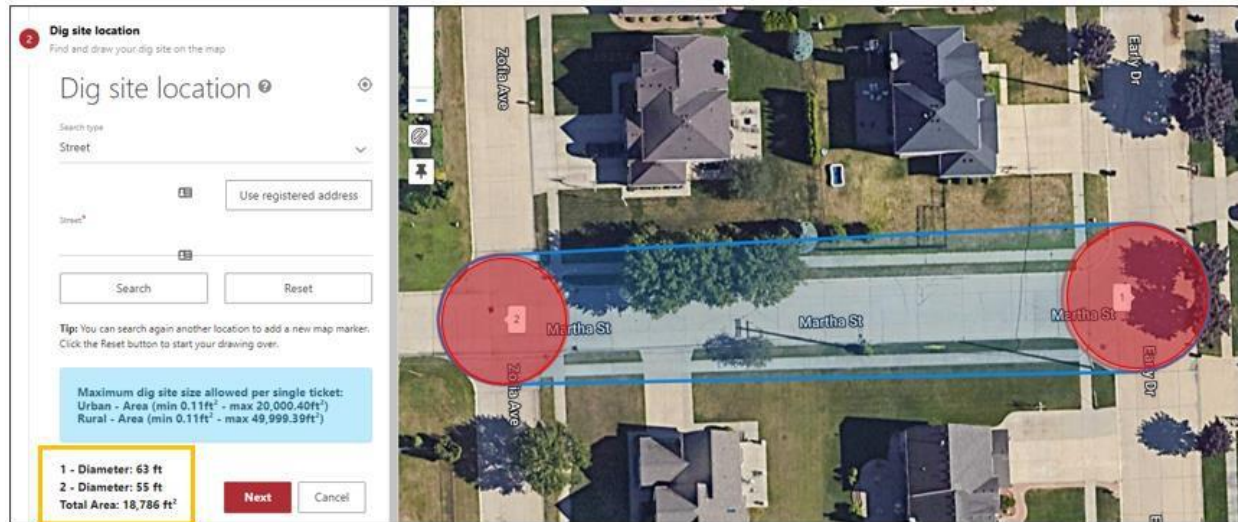
The following are examples of tickets with multiple dig sites.



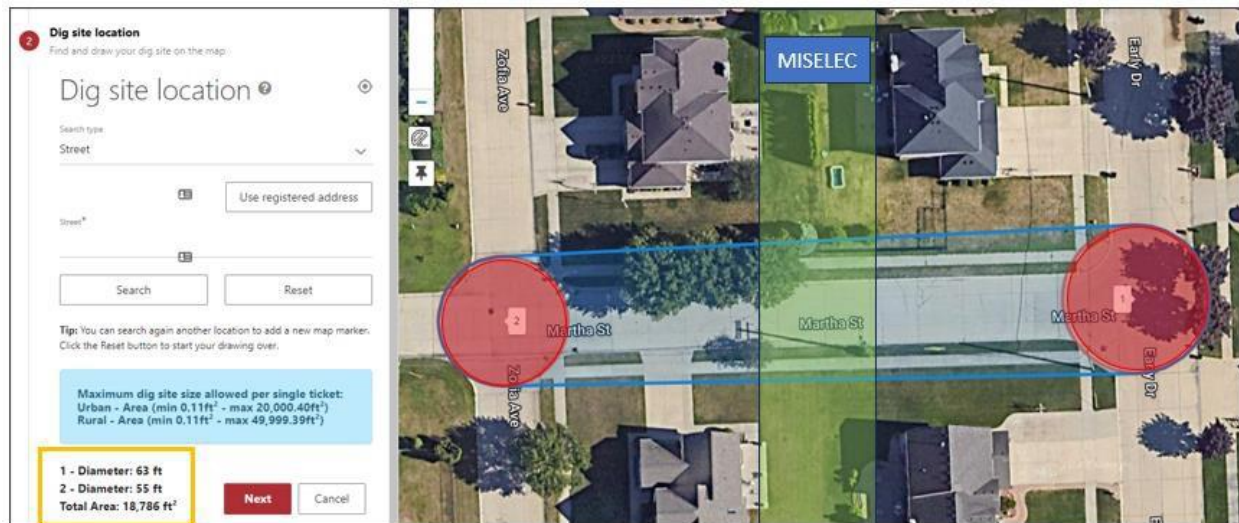
# Multi-Polygon Dig Sites For Excavators

## Example 1

The reconstruction of two intersections. The red circles show where digging will take place.



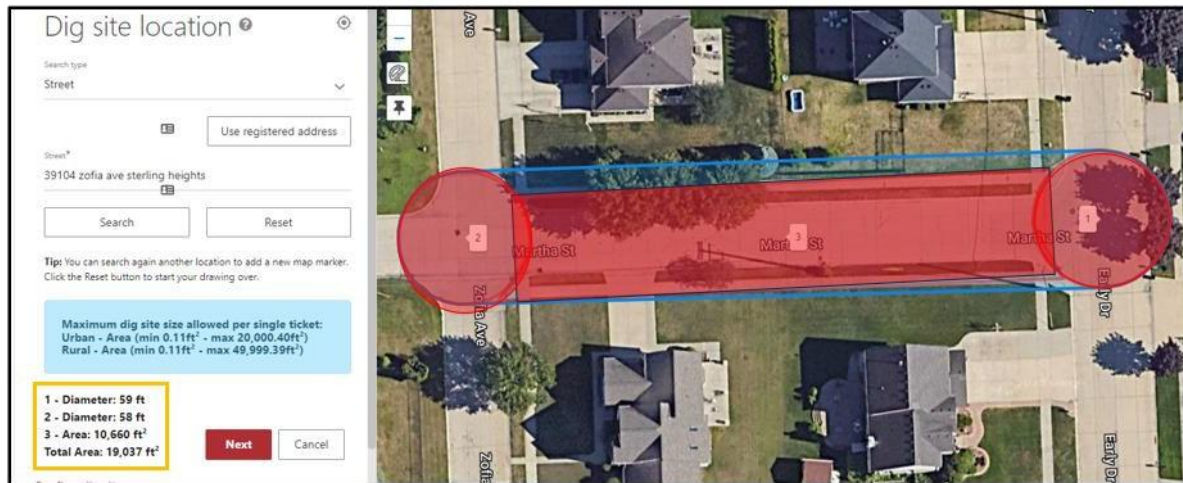
**MISELEC** is a facility owner whose Area of Interest (AOI) is displayed with the green polygon below. Their AOI intersects with the blue polygon but not with either of the red dig site shapes. They will not be notified about this job as it does not interfere with their facilities.



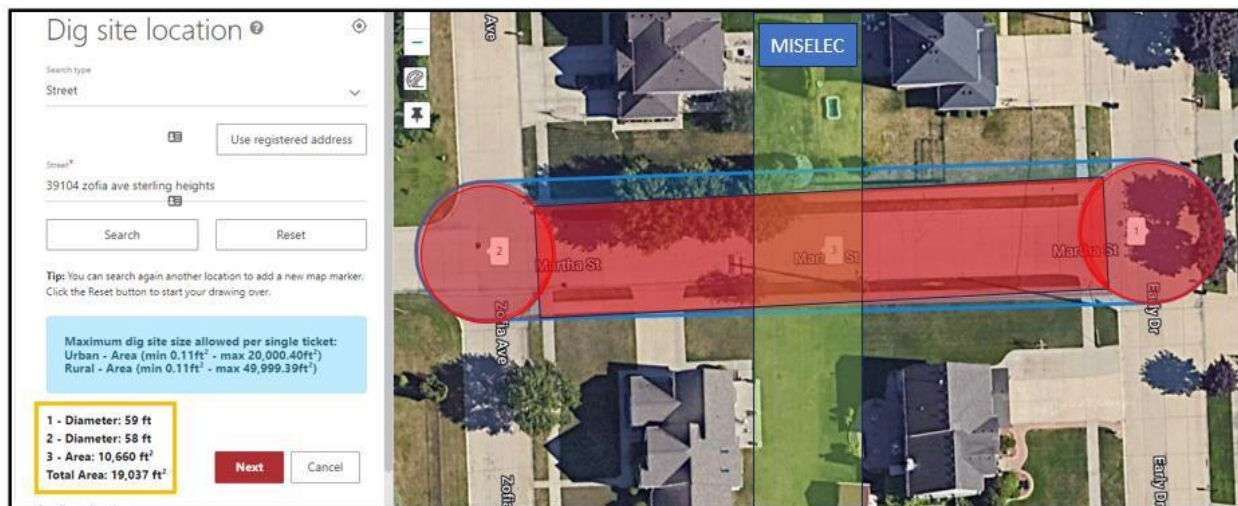


## Example 2

Road Reconstruction Including Intersections.



**MISELEC's** green Area of Interest below intersects with the dig site shape along Martha St. They will be notified about this job as it may interfere with their facilities.



# Multi-Polygon Dig Sites For Excavators

## Example 3

Installing multiple mailboxes. Be sure to read the measurement of the circle. If it is measuring in diameter, the total diameter must be doubled to equal the radius of the object.

Search type  
Street

Use registered address

Street\*  
Sandhurst Dr Grand Blanc 48439

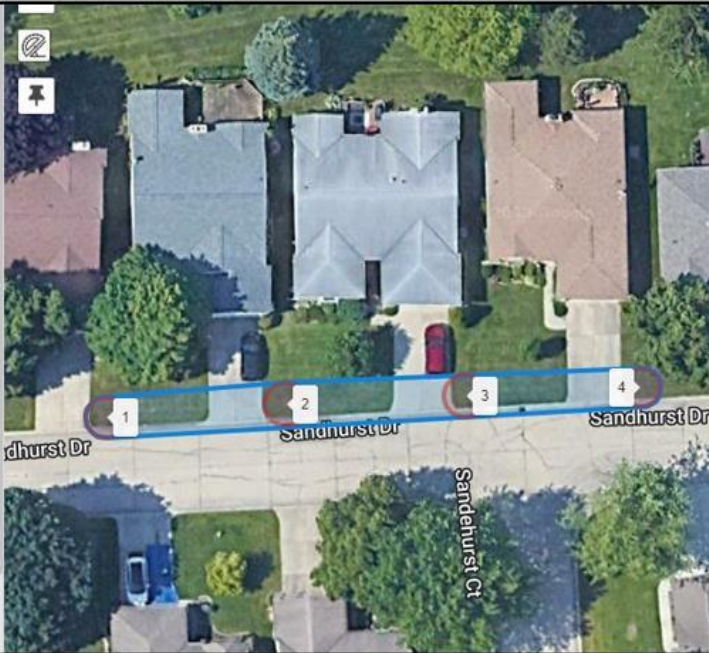
Search Reset

Tip: You can search again another location to add a new map marker. Click the Reset button to start your drawing over.

Maximum dig site size allowed per single ticket:  
 Urban - Area (min 0.11ft<sup>2</sup> - max 20,000.40ft<sup>2</sup>)  
 Rural - Area (min 0.11ft<sup>2</sup> - max 49,999.39ft<sup>2</sup>)

1 - Diameter: 12 ft  
 2 - Diameter: 13 ft  
 3 - Diameter: 13 ft  
 4 - Diameter: 12 ft  
 Total Area: 2,165 ft<sup>2</sup>

Next Cancel



## Example 4

The front yard at two addresses.



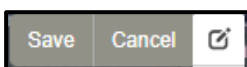


## Editing and Deleting a Polygon/Circle

To edit a polygon, click the Edit icon located just above the trash can icon on the upper right side of the map.



White edit points will appear around the polygons on the map. Click on a point and drag to the desired location to adjust the size and shape. After resizing is complete, click *Save* to keep the changes. Click *Cancel* to stop editing without saving any changes.



To delete polygon(s) on the map, click on the Trash Bin icon and select the desired polygon(s) to be removed by clicking on it. Click *Save* next to the Trash Bin icon to save the changes made.



If a polygon was removed by mistake, click *Cancel* to restore the polygon and the map to its former state.

To delete all polygons/circles, click *Clear All* to remove all the polygons/circles and clear the map.

### Relocating Circles

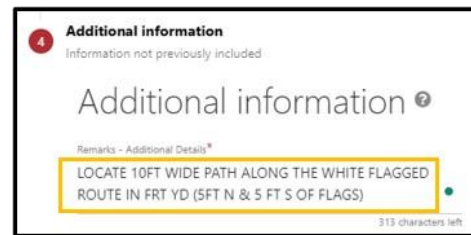
Circles may be moved from one location to another. Hover over the circle until the directional arrow icon appears then drag to the desired location. Click *Save* when finished.



# Multi-Polygon Dig Sites For Excavators

## REMARKS-ADDITIONAL DETAILS

If the polygon(s) cover areas outside/beyond of the proposed dig site, a description of the precise dig site must be written in the Additional Information-Remarks field at the bottom of the ticket.



**Additional information**  
Information not previously included

Additional information ?

Remarks - Additional Details\*

LOCATE 10FT WIDE PATH ALONG THE WHITE FLAGGED ROUTE IN FRT YD (5FT N & 5 FT S OF FLAGS)

313 characters left

If the polygons accurately reflect the dig site(s), *SEE POLYGON(S)* may be entered in the Additional Information-Remarks field instead of a written description of the dig site(s).



**Additional information**  
Information not previously included

Additional information ?

Remarks - Additional Details\*

SEE POLYGONS

388 characters left

## Important Points to Remember

- Up to 15 polygons/circles may be created per ticket.
- Each polygon/circle created by the excavator is labeled with a number. This number is not transmitted with the ticket. Facility owners do not see the polygon numbers. These numbers should NOT be referenced in written instructions.
- The **red** work location polygons/circles represent the dig site.
- Member facility owners are notified if their Area of Interest intersects with the excavator's drawn **red** polygons/circles.
- The **blue** polygon (bounding geometry/convex hull) is system-generated. It connects the multiple dig sites to determine the total area of the job. A ticket won't be submitted if it doesn't meet the maximum/minimum area requirements for the ticket type selected and the work zone (urban/rural). **It is up to the excavator to ensure their job meets the linear footage requirements by using the measurement tool.** (1320ft in urban areas and 2640ft in rural areas)
- **Red** polygons/circles may be edited by activating the edit tool located on the right side of the screen, above the trash can.
- **Red** polygons/circles may be removed by clicking the trash can icon on the right side of the page and then clicking on the associated polygon/circle.
- If the polygon(s) cover areas outside/beyond the proposed dig site, a description of the precise dig site must be written in the Additional Information-Remarks field at the bottom of the ticket.
- If the polygons accurately reflect the dig site(s), **SEE POLYGON(S)** may be entered in the Additional Information-Remarks field instead of a written description of the dig site(s).
- Be sure to read the measurement of the circle. If it is measuring in diameter, the total diameter must be doubled to equal the radius of the object.
- Members will post a response to the entire ticket, not each individual polygon.



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# Multi-Polygon Dig Sites For Excavators

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## Benefits of Multi-Polygon Dig Sites

- Reduce 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.