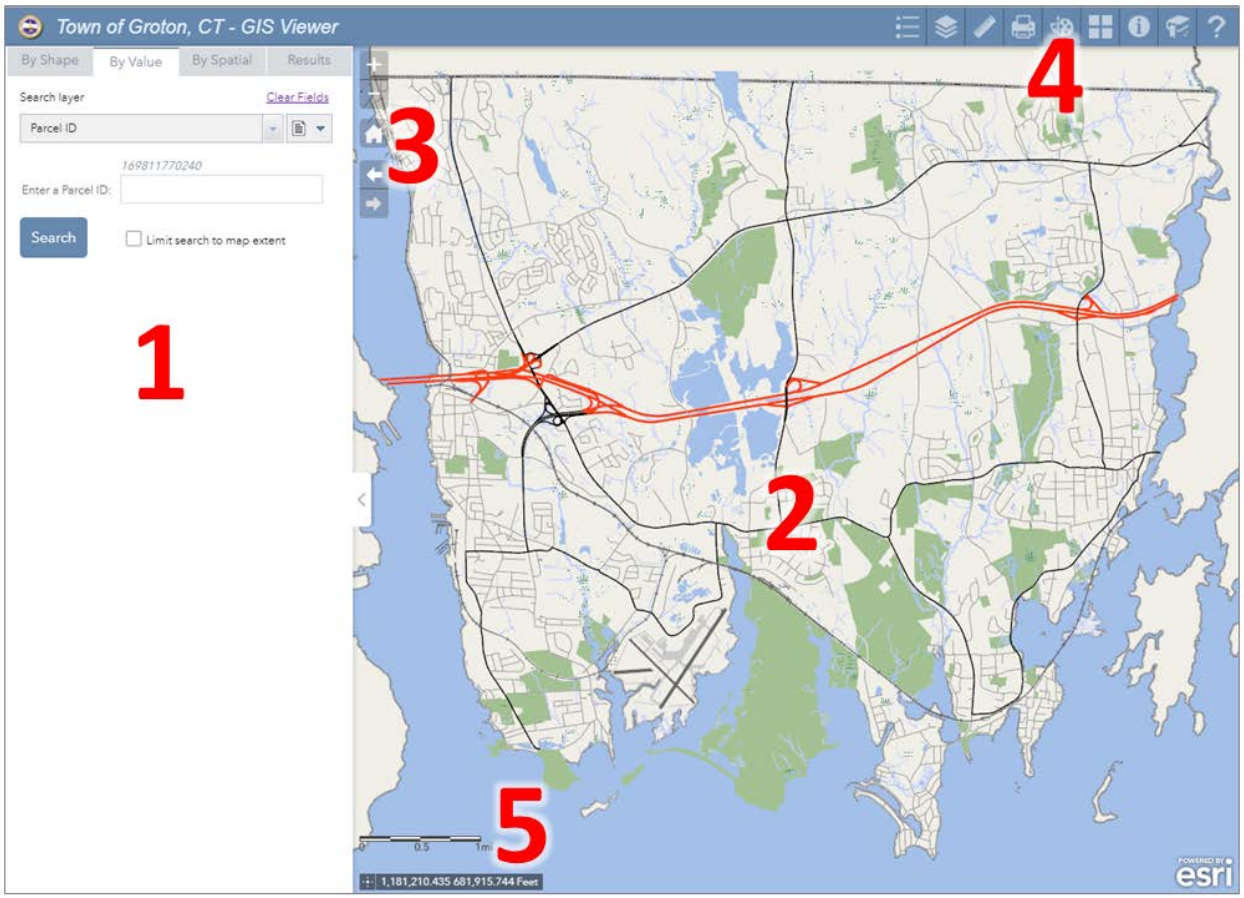
Town of Groton, CT - GIS Viewer Help Document

Site Interface



The bulleted list below provides a general description of the User Interface. More Detailed description will follow later in this document.

1) *Search Layers*: Search options Parcel ID, Address, Street or Owner. Searching can be done by Shape, Value or Spatial.
2) *Map*: The overall map view that the user interacts with.
3) *Map Extent*: Zoom In (+) or Zoom Out (-), Zoom to full map extent, and Previous or Next Extent.
4) *Map Widgets*: Different widgets that a user can use to interact with the Map.
5) *Map Scale*: Map scale bar and Northing/Easting Coordinates.

Mouse and Keyboard Navigation

- Click and drag to pan
- SHIFT + Click to recenter
- SHIFT + Drag to zoom in
- SHIFT + CTRL + Drag to zoom out
- Mouse Scroll Forward to zoom in
- Mouse Scroll Backward to zoom out
- Use Arrow keys to pan
- + key to zoom in a level
- - key to zoom out a level
- Double Click to Center and Zoom in

Touch Screen Navigation: (Only for Smartphones and Tablets)

- Touch and drag to pan
- Double tap or unpinch to zoom in
- Pinch to zoom out.

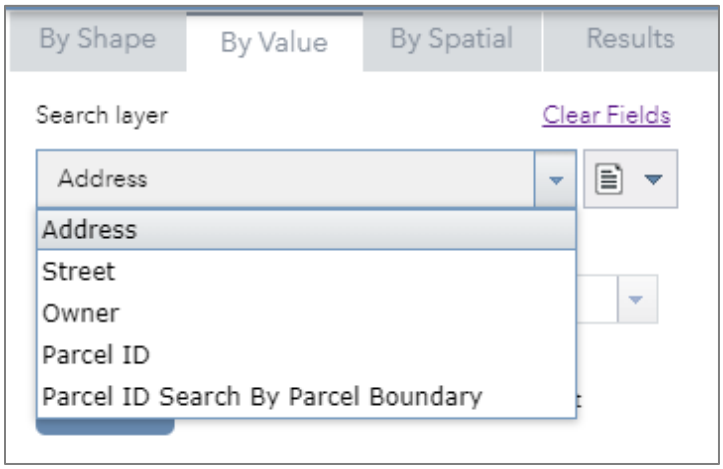
Click on the Town of Groton Seal (upper left corner) will bring you to the town's website.

Search Layers

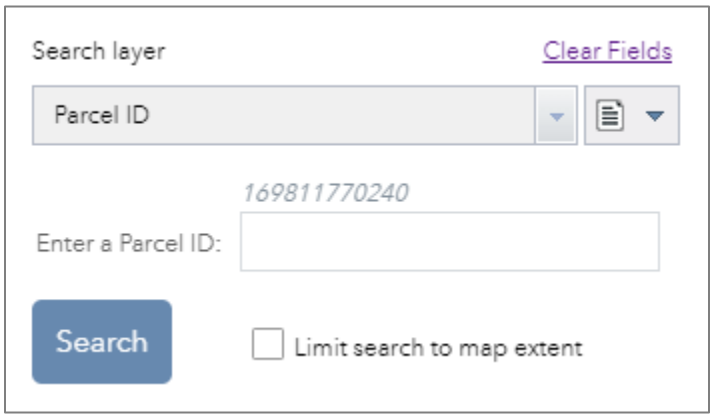
This widget can be searched **By Shape** or **By Value**.

By Value

The **By Value** view has a dropdown list of predefined search layers. Selecting a search layer updates the dropdown list of search aliases for that layer.



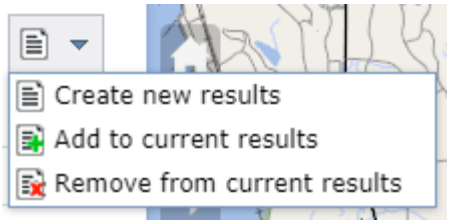
In the search bar type in the Parcel ID, Address, Street or Owner that you're looking for.
Click **Search** to get the results.



Tip for Searching by Parcel ID: Enter a Parcel ID number to search for a specific parcel. If you want to find all the parcels within a specific map, enter only the map number (i.e.169811). To find all the parcels within a map & block enter both map and block number (i.e.16981177).

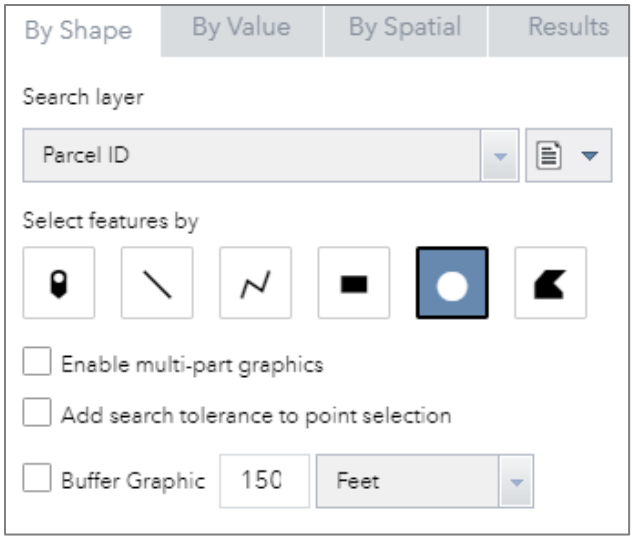
The Address, Street and Owner layers use a **Unique Value Search**. The dropdown list will be presented of all unique values for the configured field. A progress indicator will be presented to show that the widget is busy working with the unique values as seen in the picture below.
NOTE: You cannot search until the retrieving of values is complete.

By default all searches create a new result set. But to change the selection dropdown to **Add** or **Remove** the search results from the current result set.



By Shape

The **By Shape Search** view has a dropdown list of predefined search layers and draw tools for drawing on the map to search for features that intersect the drawn graphics.



If you check on the **enable multi-part graphics** then when you complete drawing on graphic you and can continue to draw the same geometry type and once you have drawn all the graphics you wish to search by then you can click Search to execute the search.

If you don't check on the **enable multi-part graphics** then when you complete drawing on graphic the search is automatically executed.

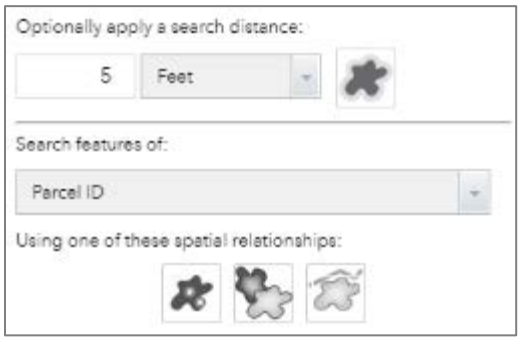
If you choose the point graphic draw tool and are attempting to search for line or point feature then you should use the **Add search tolerance to point selection**.

If you choose you can buffer the graphics after it is drawn but before the search occurs by checking the **Buffer Graphic** checkbox and adjusting the distance and units if desired.

If you choose to add or remove from the current search results using graphical searches as well as By Value searches.

By Spatial

The **By Spatial Search** view has buffering options, a dropdown list of predefined search layers and spatial operation buttons.



If have already completed an **By Shape** or **By Value** search then you can use the **Spatial Search** to search for other features that have a spatial relationship to your previous search results. If you click the **Apply Buffer** button than a buffer will be added around your existing search results. This buffer can be used as the geometry of your spatial search instead of the existing search results geometries.

Choose the layer that you will search for the spatial relationship with your existing search results or buffer. Finally select the spatial relationship button that you want to execute. (i.e. entirely contained in). A common workflow for using the **By Spatial** search would be to search for a parcel and determine the parcels that are within 1000 feet of the original parcel. To do this you would follow these steps:

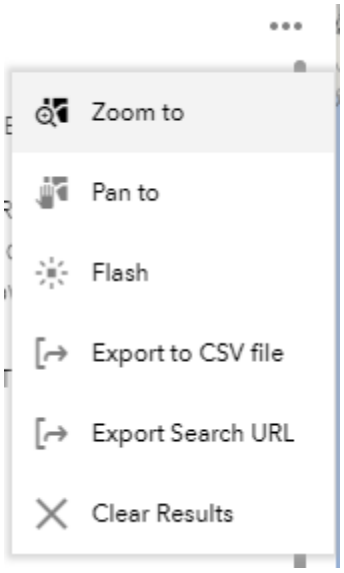
1. Search a parcel layer by owner name using the **By Value Search**.
2. Switch to the **By Spatial** view and buffer that result by 1000 feet.
3. Select the parcel layer from the drop down layer list and click the **intersected by** button.

Results

Click on an individual search result will zoom the map to that result and display the popup for that result. If the results layer has links configured than the link text or link image will appears in the results. If you want to remove one of the results click on the **X**.

The **ellipses button** (...) brings up a menu of result actions you can perform.

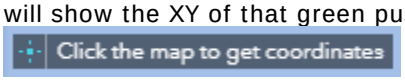
- The **Zoom to** command will zoom the map to the extent of all the returned results.
- The **Pan to** command will pan the map to the extent of all the returned results.
- The **Flash** command will flash all the returned results on the map.
- The **Export to CSV file** command will export the search results to a CSV Excel file.
- The **Export Search URL** command will take the search options used in an attribute search and export the URL for this search that can be shared with others.
- The **Clear Results** command will remove all the returned results from the map and the widget.



Coordinate

The **Coordinate Widget** shows Latitude (**X**) and Longitude (**Y**) coordinate values on the map. The coordinate values change dynamically when the mouse pointer moves to different locations on the map. You can view the map coordinates by hovering over the map. The coordinates for this map is Connecticut State Plane NAD83, Northing/Easting.

To get a XY location on the map click on the star in the lower left corner. Then click on the map where you want to know the **XY** coordinates. A green push pin will appear on your map and the lower left will show the XY of that green push pin. Continue clicking the map to get more coordinates.



Note: Coordinate information is for general location only and should not be considered survey accurate.

Home

The **Home Button Widget** will zoom the map to its default extent.

Zoom Previous Next

The **Zoom Previous Next Widget** allows you to zoom forward and backward through the map extents you have visited during the current session.

Zoom Slider

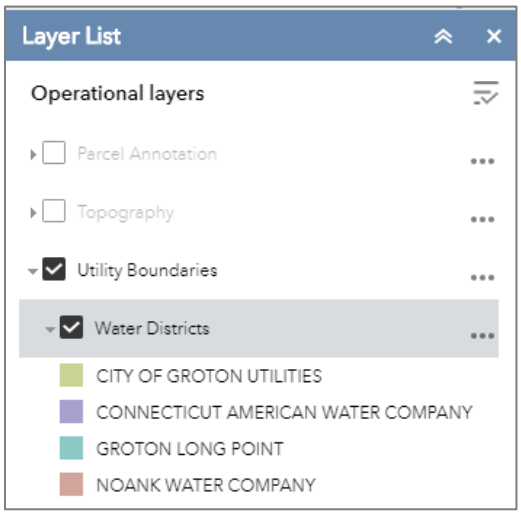
Click the **plus** or **minus** button to zoom in or out on the map.

Legend

The **Legend Widget** shows the symbology of the operational layers.

Layer List

 Clicking the **Layer List Widget** in your app displays the layer list of contents window. If the Show Legend option is checked, clicking an individual layer shows its symbols.

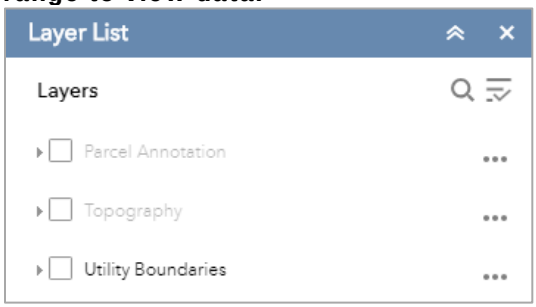


Clicking the three dotes (...) on the right side of a layer displays the layer menu, which includes the following functions:

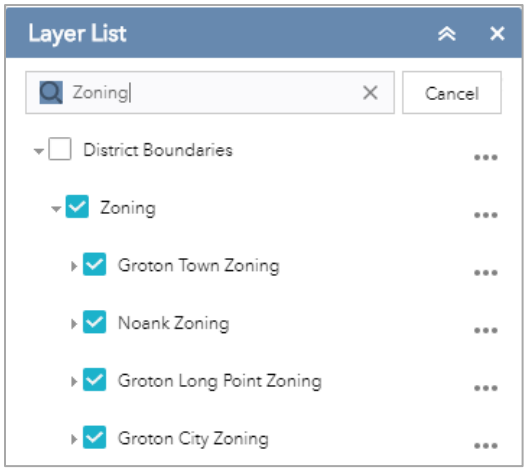
- **Enable Pop-up / Remove Pop-up** Enables or disables the pop-up for the feature layer. If a feature layer does not have a pop-up configured in the map, clicking Enable Pop-up shows all field values for the feature layer.
- **Description / Show Item Details** Opens the service description or the item details page for the service or the item associated with the layer, if available.

The **Control all layers** button  controls the behavior of all of the layers in the list. Click the icon to open the menu, which allows you turn on or off all the layers, or expand or collapse all the layers. Alternatively, you can use keyboard shortcuts to do so. Press Ctrl and click the check box of the layer to turn on or off the layers in the same level. Press Ctrl and click the arrow to expand or collapse layers in the same level.

> Layers with grayed out text means that there is a zoom extent set. Zoom in to visible range to view data.

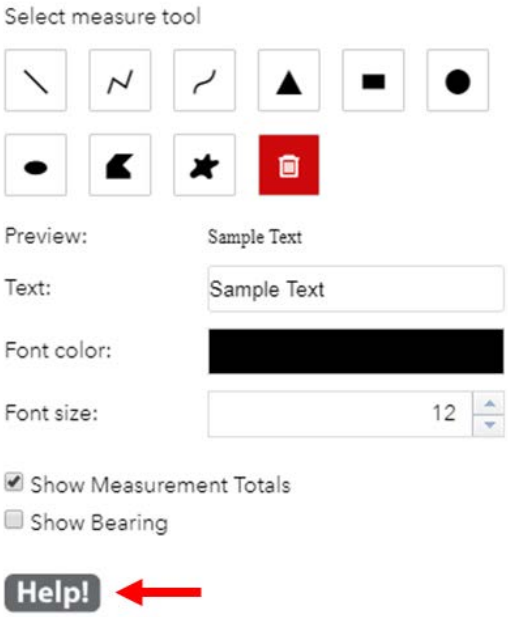


Click the search button search button  to find layers. See Example below.



Measurement

 The **Measure Widget** allows you to measure the area of a polygon, or length of a line.



Click on the **Help!** button on the tools screen for additional information

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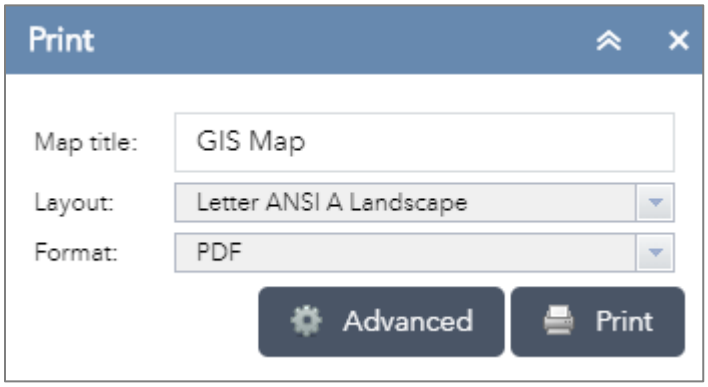
Print

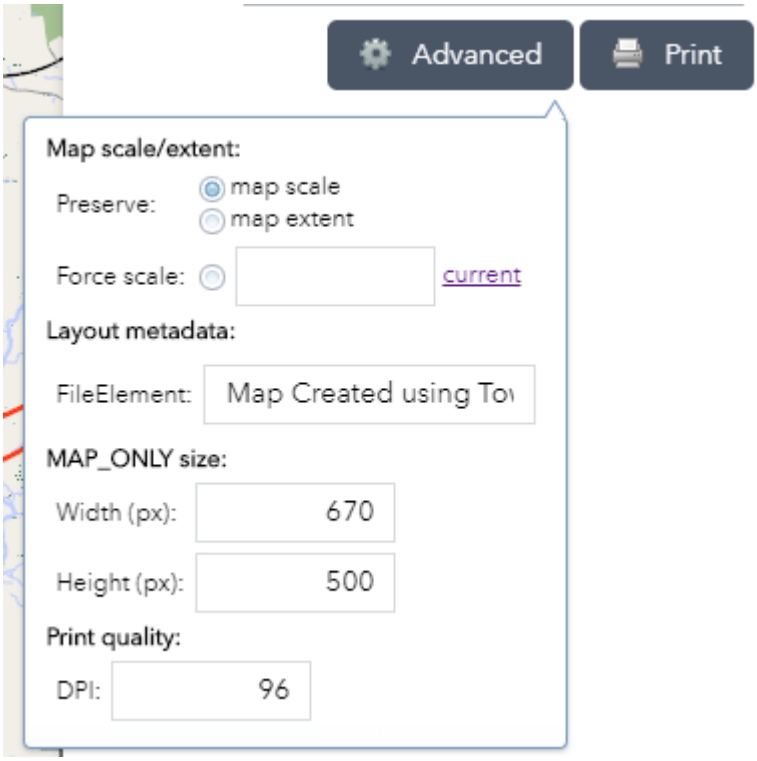
This widget print allows the user to create a printable map. Type a title for the map in the **Map Title** text box. Select the applicable **Layout** and **Format** for the exported map.



Format is a preselected list of options on the Print widget. You have the following options:

- PDF
- PNG32
- PNG8
- JPG
- GIF
- EPS
- SVG
- SVGZ

Click **Advanced** to open a menu with advanced print options.



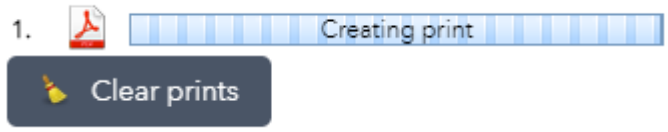
The **Map scale / extent** section defines the method that the print service will use to calculate the printed extent of the map. Preserving **map scale** causes the printed map to maintain its scale while recalculating the extent around the existing center point. Preserving **map extent** causes the scale to adjust to fit the current map extent onto the printed map. You can also force a specific scale by checking the **Force scale** option and providing a scale. Click **current** to populate the value with the present scale of the map.

The **Layout metadata** section allows you to override the default values set by the configuration. Enter values for the Author and Copyright properties to provide current information to the print service. Check the Include legend check box to display the legend on the printed map.

If the **MAP_ONLY** format is selected, you can provide dimensions for the Width and Height properties in pixels. Otherwise, these values are ignored. The **Print quality** section allows you to update the

resolution of the printed map. Provide an updated value for the DPI (dots per inch) in the text box.

After all options have been set with the applicable values, click **Print** to submit all information to the print service. A progress bar displays next to the executing task.



Upon completion of the print job, a link to the print output displays. Click the task to open the file in a new window.

Click **Clear Prints** to clear the print history.

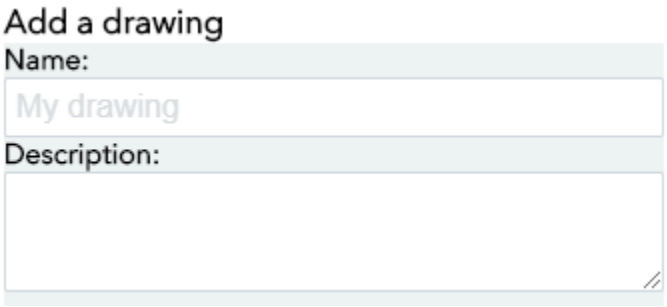
Draw

The **Draw Widget** lets you draw basic graphics and text onto the map. It provides basic sketching and redlining functionality for the web application. It also displays some measurements (if configured) for drawn features, such as lengths for lines, and areas and/or perimeters for polygons.

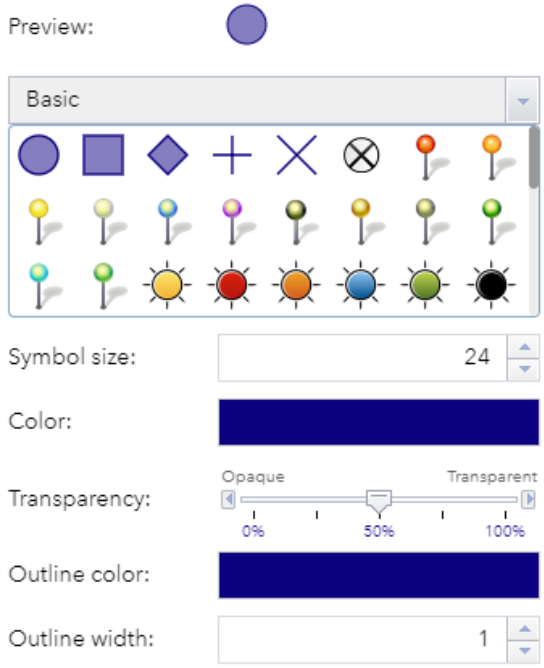
The different drawing tools are as follows:

- Point
- Line
- Polyline
- Freehand Line
- Triangle
- Rectangle
- Circle
- Ellipse
- Polygon
- Freehand Polygon
- Text

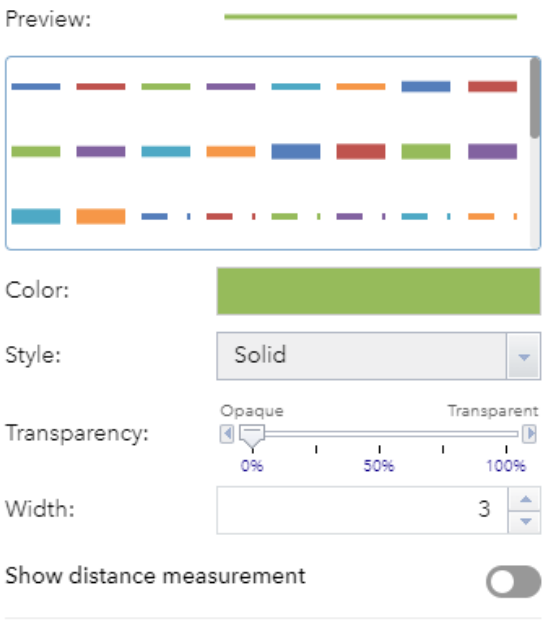
You can add a **Name** for your drawing and a **Description** of what your drawing is.
Example **Name:** Tree down **Description:** Tree across trail.



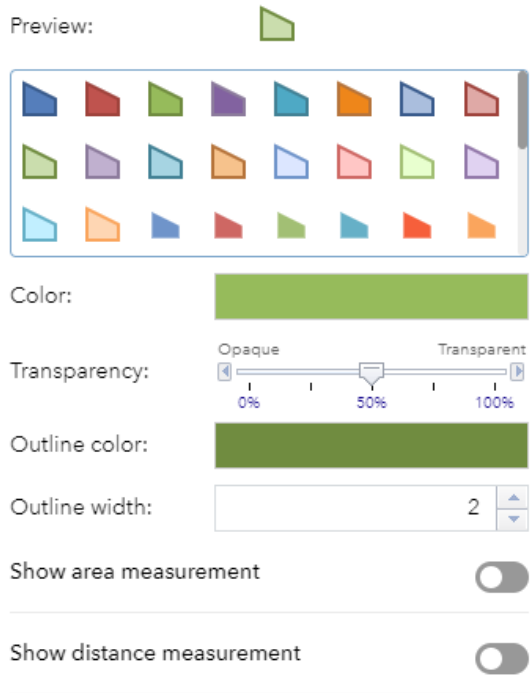
For **point symbols**, select the marker category (different symbols are available in each category), size, color, transparency, outline color, and outline width of the symbol. Only the size is available for the picture marker symbols.



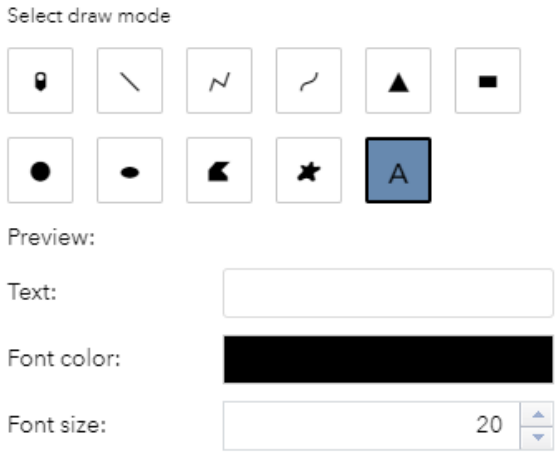
For **line symbols**, select a pre-defined symbol from the box. You may also customize the color, style, transparency, and width of the symbol. Click **Show Measurements** and select the **Distance Units** to display the measurement with the line.



For **polygon symbols**, select a pre-defined symbol from the box. You may also customize the fill color, transparency, outline color, and outline width of the symbol. Click **Show Measurements** and select the **Area Units** and **Distance Units** to display the measurement with the polygon.

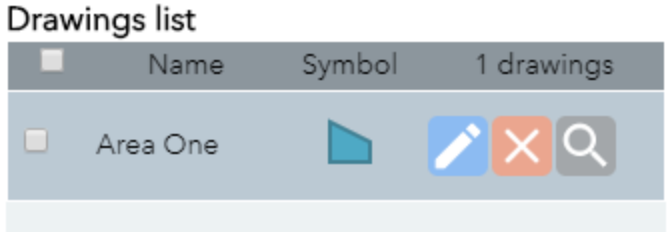


For **text symbols**, enter the **Text** to be drawn, and select a font color and size for the symbol.



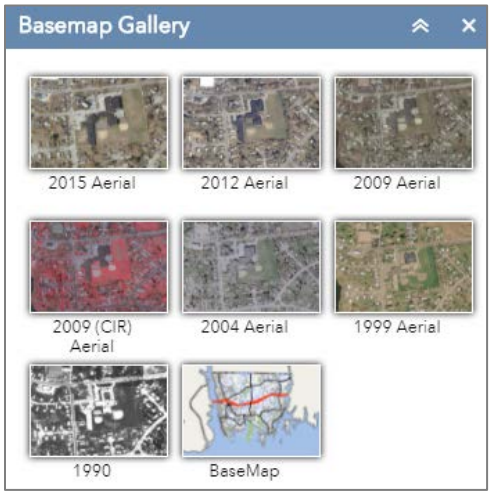
Click **Cancel** to get out of Add a Drawing screen.

Under the **Drawings List Tab** is where you will find your drawings. You can **Update your drawing** by click on the blue pencil, **Delete your drawing** by clicking on the orange X and you can **Zoom to your drawing** by click on the gray magnify glass. Every time you open the app your draw will be saved under the Draw tool. In order to view you existing drawing you have to click on the Draw tool and go under the Drawing List Tab. Your drawing will stay until you delete it.



Basemap Gallery

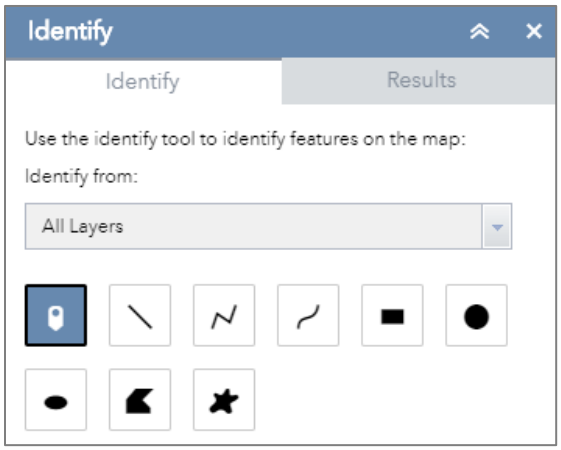
Clicking the **Basemap Gallery Widget** displays all the basemaps configured for this widget. Clicking a basemap thumbnail sets it as the active basemap for the app. Click the X in the upper-right corner of the Basemap Gallery window to close it.



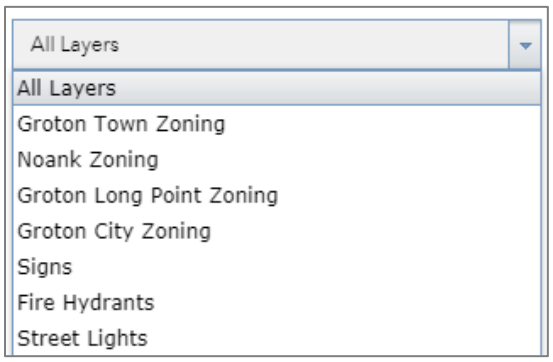
Identify

 Clicking the **Identify Widget** in your application displays the widget.

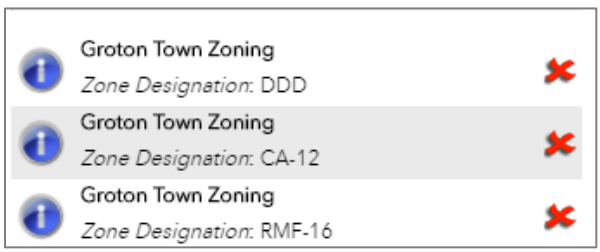
Use of the widget can begin immediately by drawing on the map and the identify operation will begin. Make sure the layer you want to identify is turned on under the Layer List.



If you configured **Keep Identify Active** then when you complete your identify operation the last selected draw tool will remain active for you to continue identifying features on the map. If you want to limit the results to one specific configured layer then you just need to change the **Identify From** drop down box in the widget to that specific layer.



The **Results** view lists all the identified features and their attributes that have been configured.



Each result will have a remove button to allow you to remove unwanted results from the result list. If you configured any links for the result layer then those links will appear in the results as an image at the bottom of that specific result or in the content of the result attribute if the link type was text.

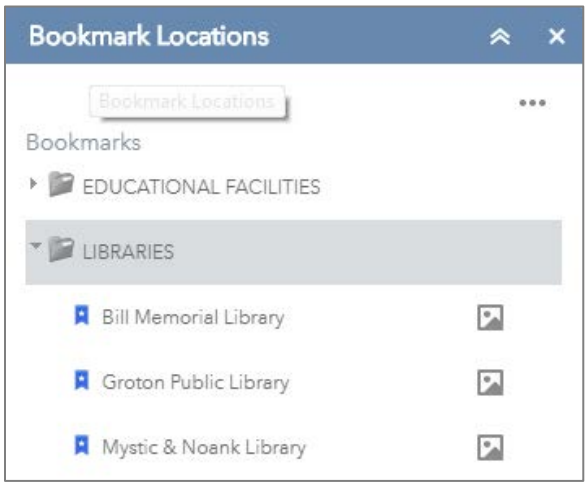
You can click on any of the individual results in the list to zoom to that results location.

The **Clear** link will remove all the returned results from the map and the widget.

Bookmark Locations

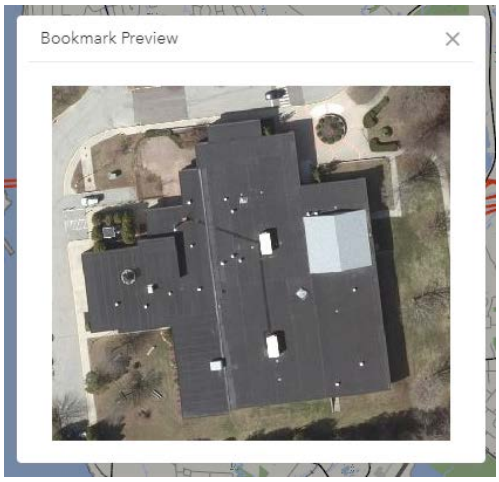
The **Bookmark Location Widget** has predetermined locations thought-out the Town of Groton.

To zoom to a bookmark location click on the bookmark in the list and the map will zoom to the bookmarks extent, the busy cursor on the right will be there while the map is zooming to that extent.

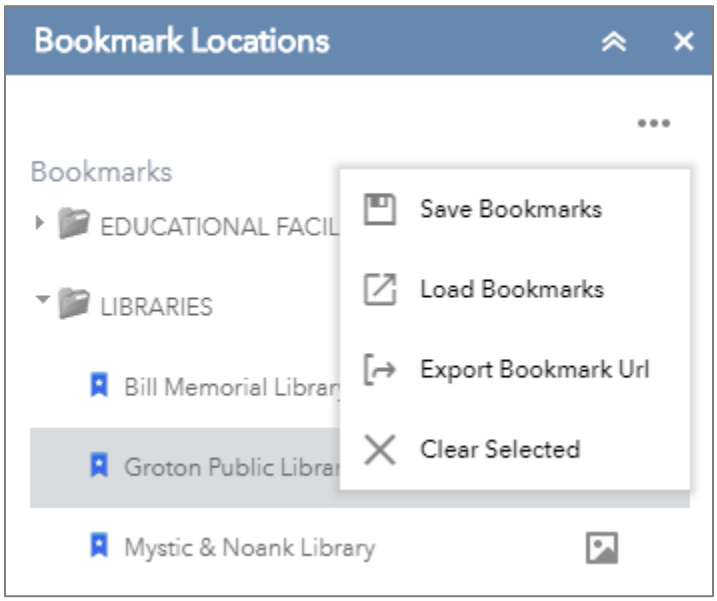


If your bookmark has a thumbnail then you will see the **Preview the bookmark thumbnail icon**. Clicking on this icon will display a thumbnail popup preview window.

Bookmark popup thumbnail example below.



For more options for this widget click on **...**



You can save your bookmarks to share with other computers **Save Bookmarks**. This will save all your bookmarks in a json format file that is downloaded to the client machine.

You can load your saved bookmarks, using the **Load Bookmarks**. This will load your bookmarks from a saved a json format file, that was downloaded to a client machine.

You can use the **Export Bookmark Url** to get a dialog that appears with the apps url with an extent parameter that is the extent of the selected bookmark. You can then copy this url and email this to

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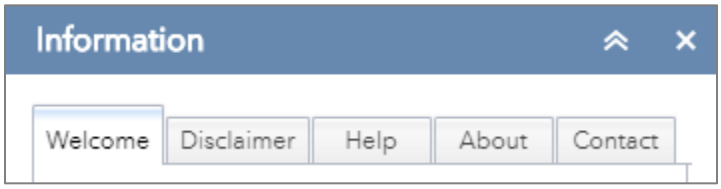
Information


The **Information Widget** has 5 different tabs with information under them. The tabs are Welcome, Disclaimer, Help, About and Contract.



Welcome Tab give you a welcome message to the site and what year Grand List is being used.

Disclaimer Tab is the Town of Groton legal description for the site.

The Planimetric and Topographic information depicted on this site was compiled by The Sanborn Mapping Company and is based on an aerial flight that was performed in April 2009. The Horizontal

Datum is based on North American Datum of 1983 (NAD 83 Feet) and the Vertical Datum is based on National Geodetic Vertical Datum of 1988 (NGVD 88). Property information has been derived from recorded deeds, plats, public records, and other data. The intent of this information is to provide the user with a graphical representation of real property, planimetric, topographic and other digital information for the Town of Groton. The user should not rely on the data provided herein for any reason. The map and database information is believed to be accurate but accuracy is not guaranteed, and the information contained in this website is NOT under any circumstance to be construed or used as a legal description. Any errors or omissions should be reported to the Town of Groton GIS Department, IT_HelpDesk@groton-ct.gov. In no event will the Town of Groton be liable for any damages, including loss of data, lost profits, business interruption, loss of business information or other pecuniary loss that might arise from the use of this mapping service or the information it contains.

Help Tab has the same information that is in this Help Document but in the site.

About Tab tells you about the site, "This map viewer application is based on the Esri ArcGIS Web AppBuilder Developer Edition Version 2.8. Map viewer also includes custom widgets by Robert Scheitlin & William Miller."

Contact Tab Any questions or comments about the GIS Viewer, please contact the Town of Groton GIS Coordinator at IT_HelpDesk@groton-ct.gov