

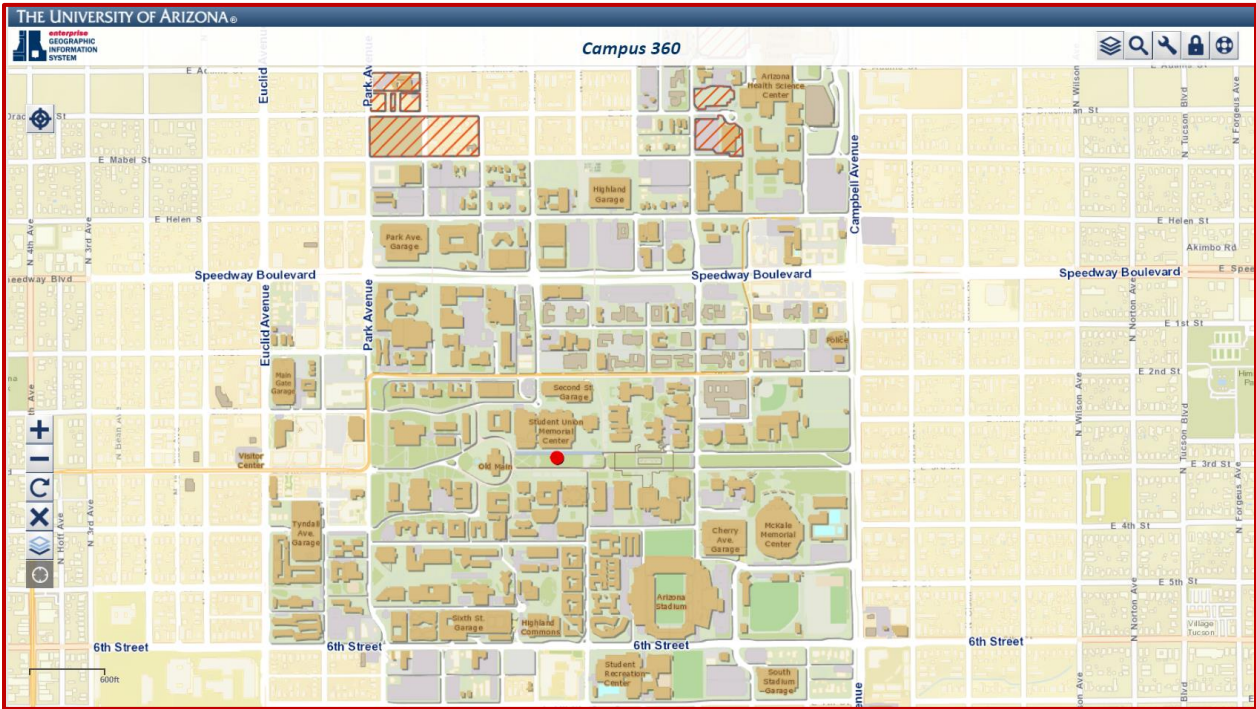
The University of Arizona

Campus 360 Web Map

Help Guide v 1.3.1

Revised Aprils 2018

<https://maps.arizona.edu/campus360/>



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INTRODUCTION


Welcome to the Campus 360 Web Map Help Guide! Let's get right to the information you came here for.

Before we begin, here are a few notes on this Help Guide:

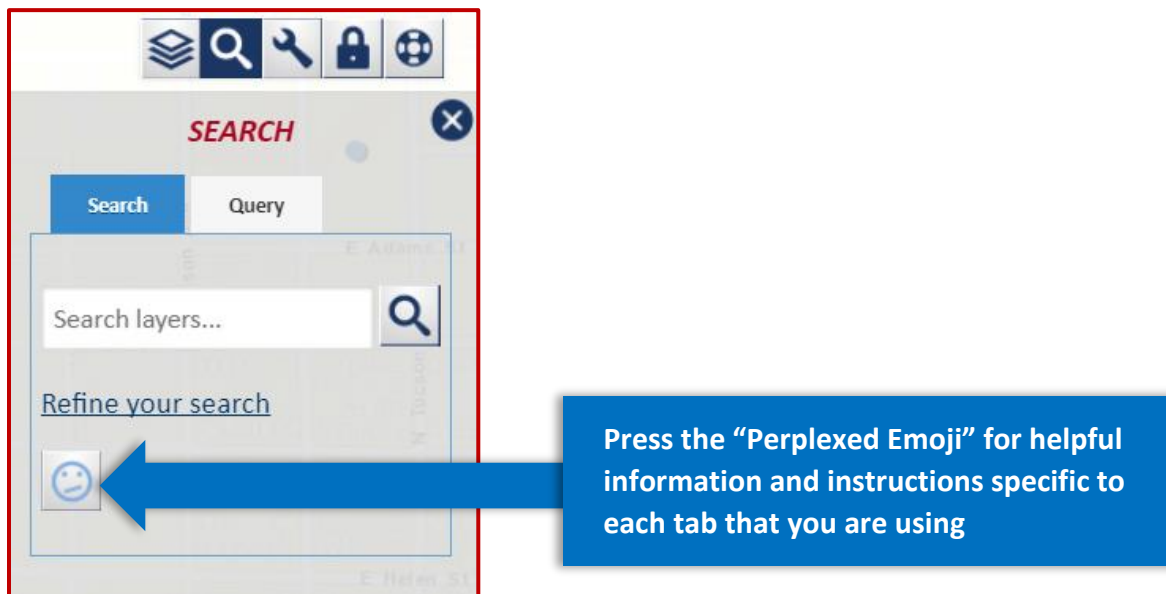
Technical jargon will initially be *italicized*.

Some of us "click" and some of us "tap," so we will refer to both actions as one and the same with the term "press."

We will use circles  and arrows  to draw your attention.

There are certain action sequences which can cause the site to glitch. We will alert you of them by using this symbol : 

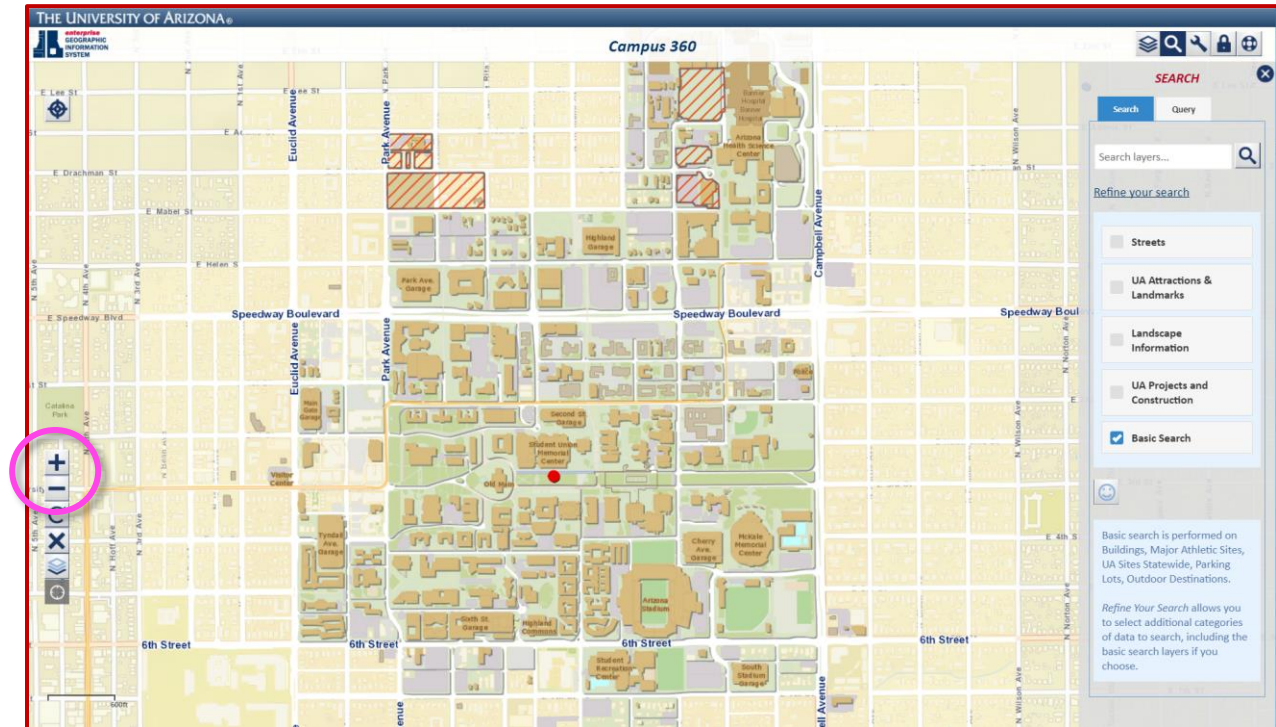
There is also help built into Campus 360:



Okay, let's get started!

MAP CONTROLS

Use the “plus and minus” buttons to zoom in and out of Campus 360:

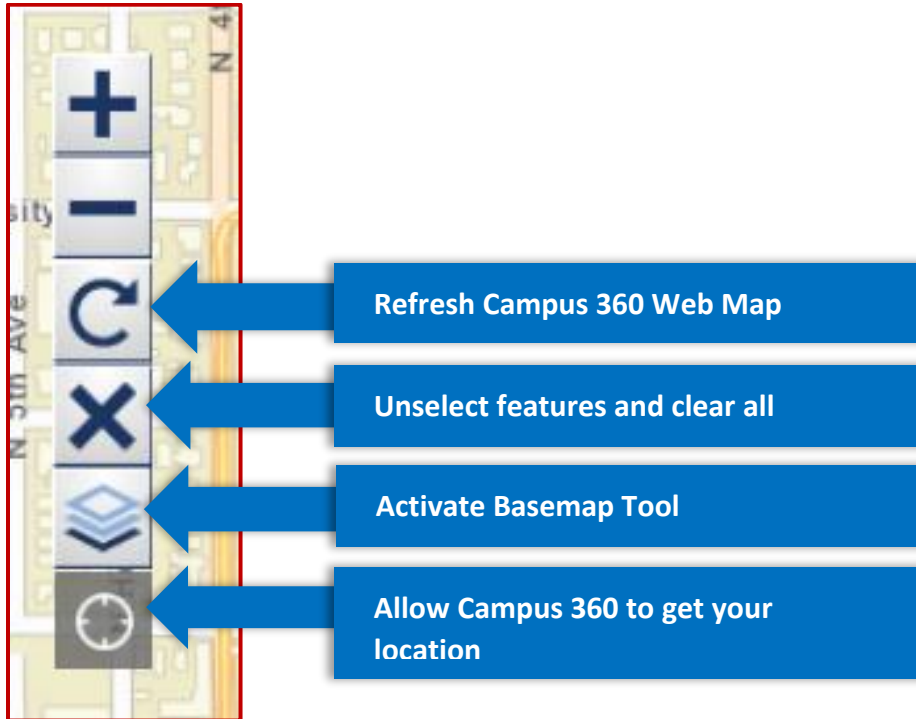


You can also use the scroll wheel on your mouse to zoom in and out.



Notice how more features of the map become visible as you zoom in. This is referred to as “scale dependent features.”

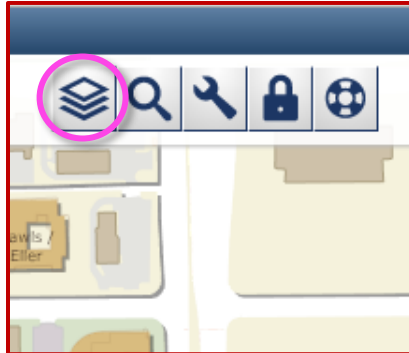
The “plus and minus” buttons share a column with four other Map Control buttons:



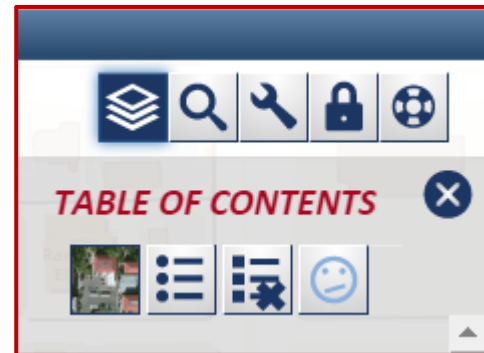
WEBMAP TABLE OF CONTENTS

The TABLE OF CONTENTS tab can be found at the top right corner of Campus 360. We call it the “T.O.C.” or *TOC*. Notice how the color of the button changes when it is pressed. This indicates that the tab has been selected.

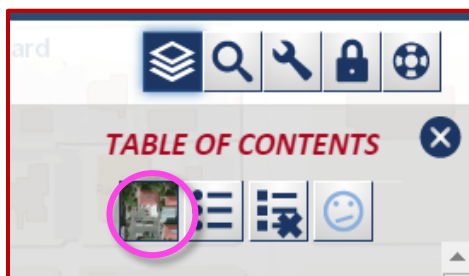
Unselected



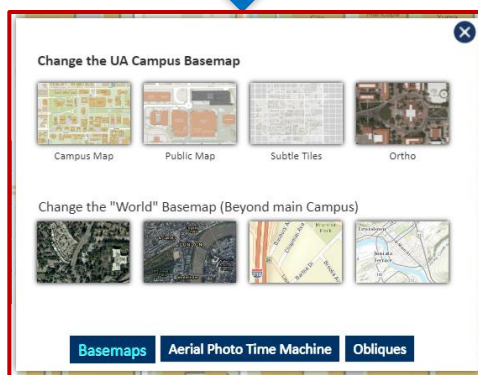
Selected



The first button in the TOC (the other TOC buttons will be addressed later in this guide) tab enables you to toggle your map view between our various base maps and *aerial photography*—mapping compiled from photographs taken from planes or satellites, looking straight down. You also have the option to switch between different “World” basemaps for the area surrounding the UA Campus(es),

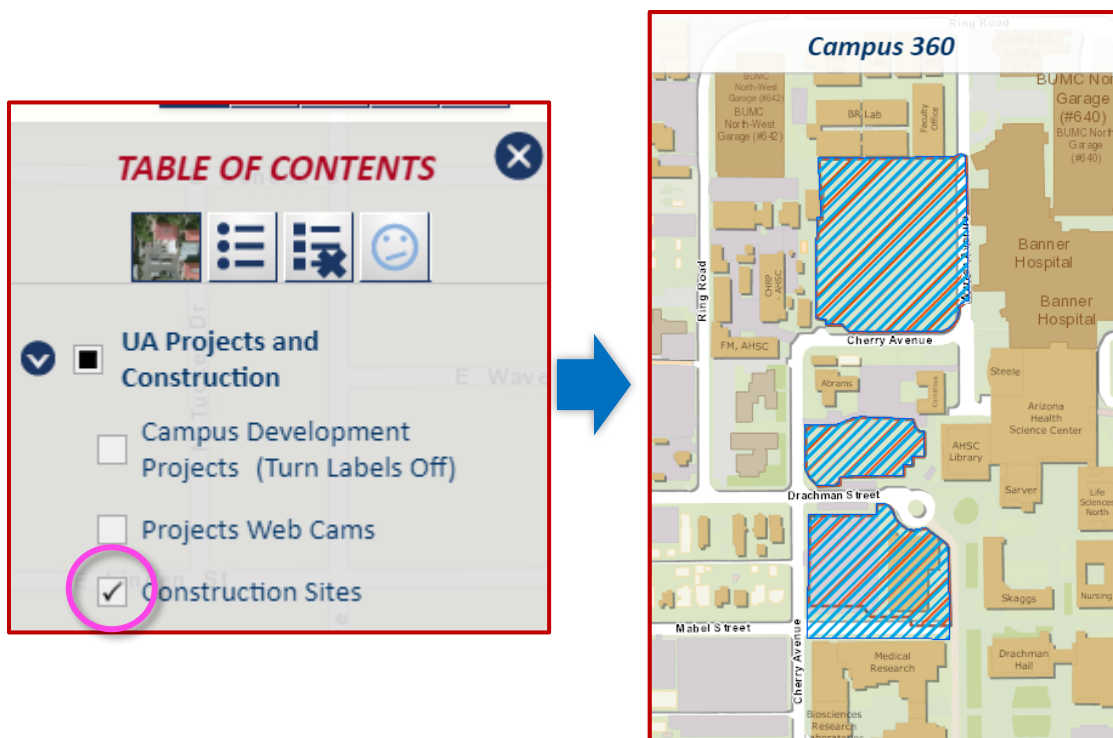


Basemap Tool




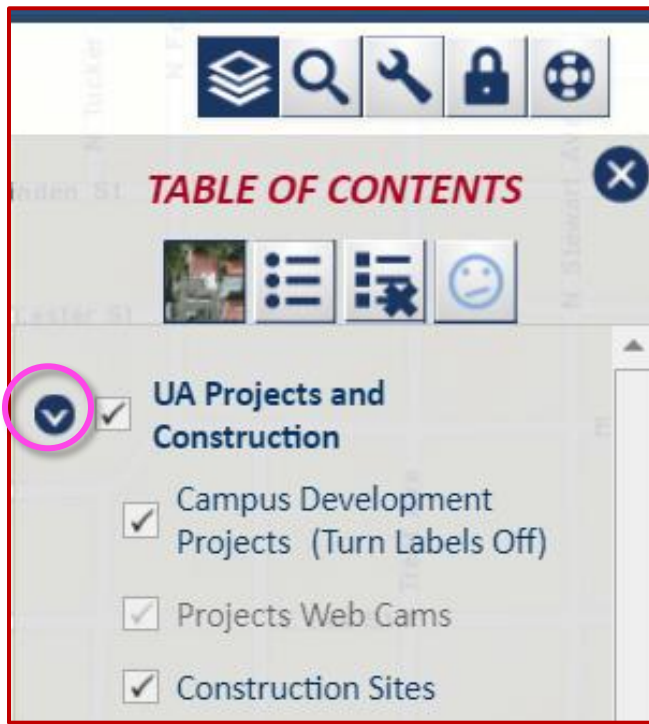
MAP LAYERS

Underneath the TOC buttons is the list of map *layer groups*. Layer groups are categories of Campus 360 features such as “UA Attractions” and “Landmarks.” Press the box next to a layer group in order to turn all layers in that group. This will color-in and symbolize features so as to distinguish the features from the rest of the map.



Notice how “Construction Sites” such as University Medical Center are colored in a hatched blues.

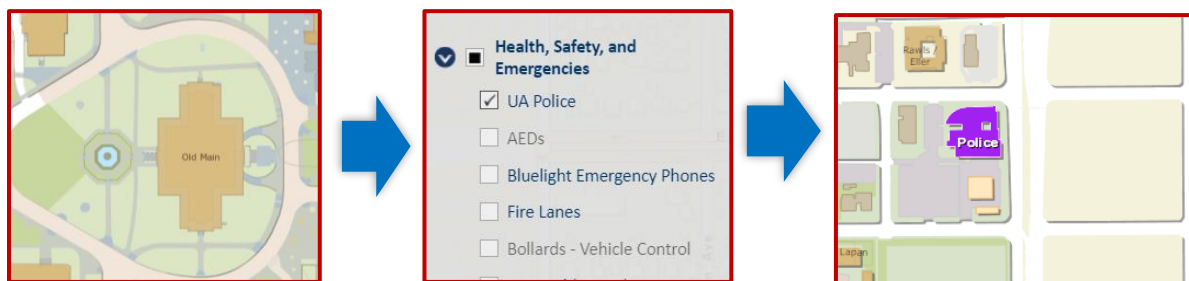
Layer groups may be expanded to show a list of specific campus layers. Press the  button to expand the list of layers. Check the box by each layer to turn it on and off.



Selectable layers combine or overlap each other as you turn them on and off. If something does not look right to you, check the list to see if a layer is turned on that is incompatible with your desired outcome

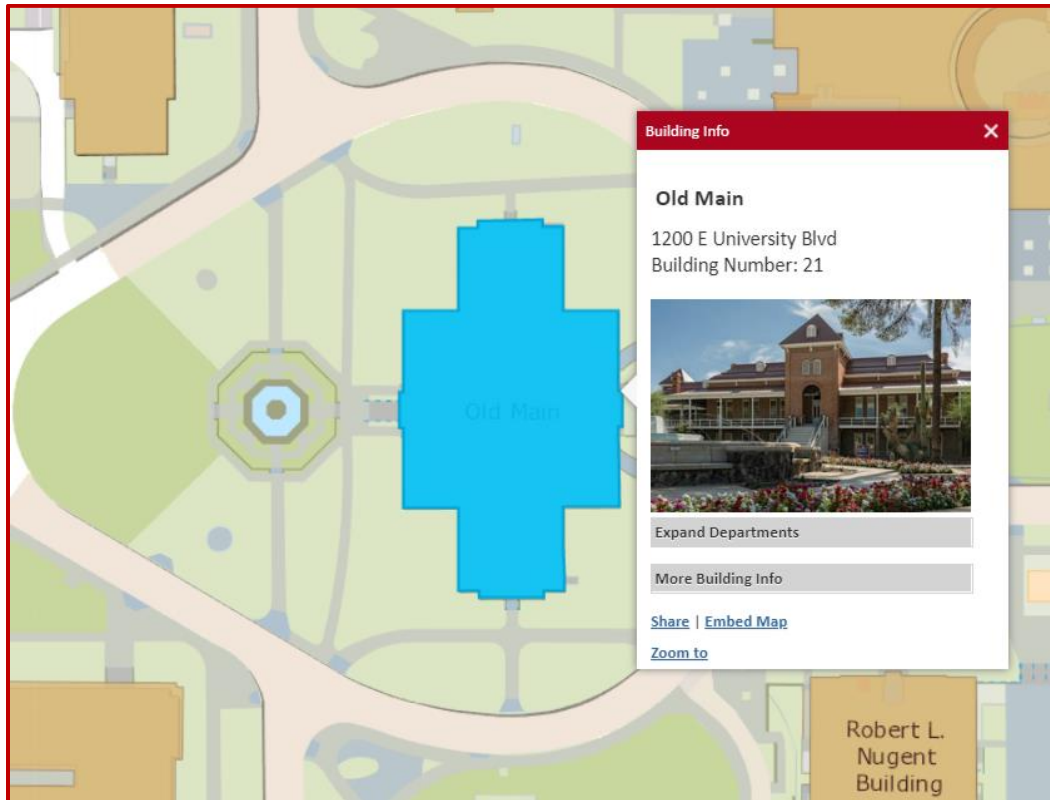
You will find that some of the layers are *grayed-out* at certain scales. This means they cannot be selected at the current zoom level. Try zooming in or out on the map to unlock these layers. For example, in the above image, “Projects Web Cams” is currently grayed-out.

Some layers are designed to refocus the map on features in that layer as soon as you turn it on.



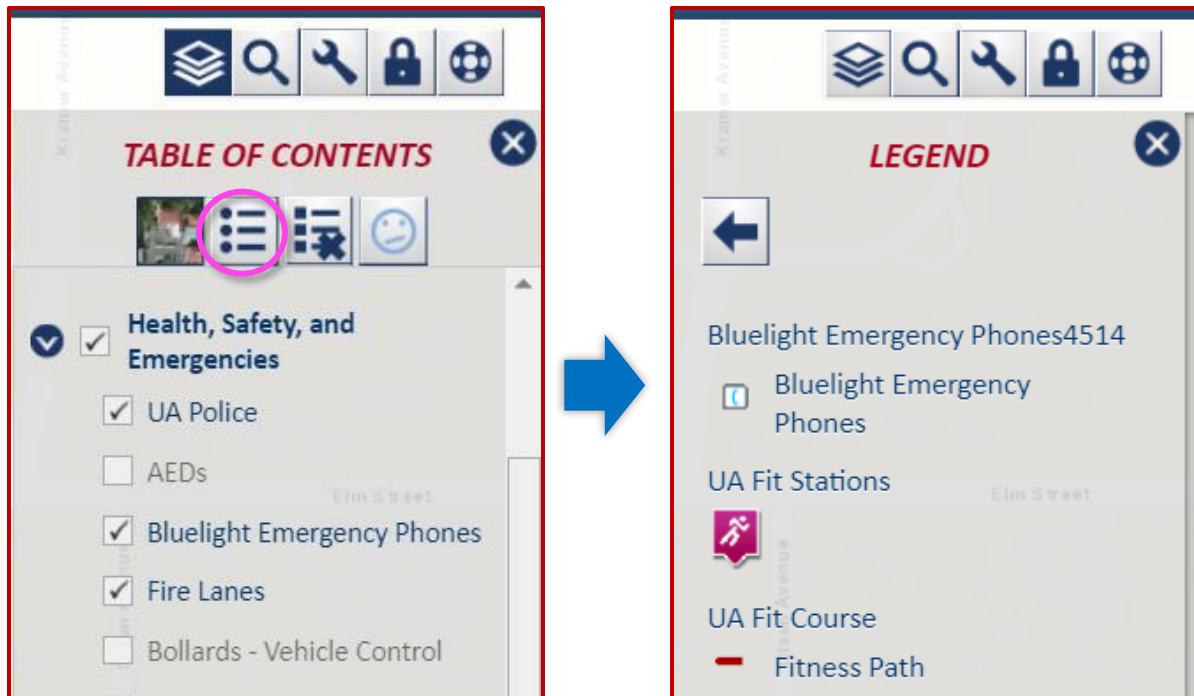
This is the case when the layer is comprised of only one or a few features that might not be visible in the current map window.

Informational *flyout* windows are provided when some mapped features are turned on.



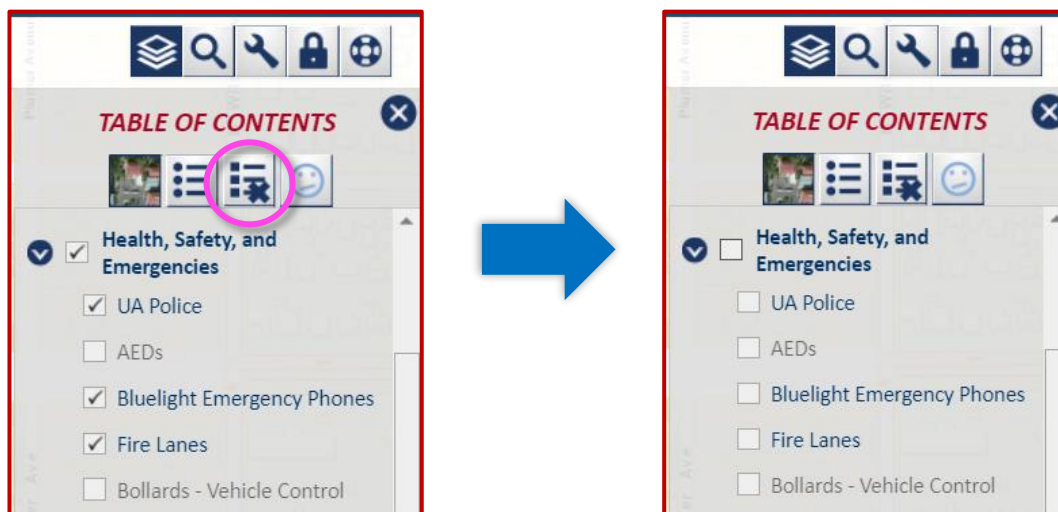
Buildings and Parking Lot flyouts are always available for this, while other flyout windows are only available when the appropriate TOC layer is turned on.

The **LEGEND** button helps you determine what the colors and symbols represent in each layer.



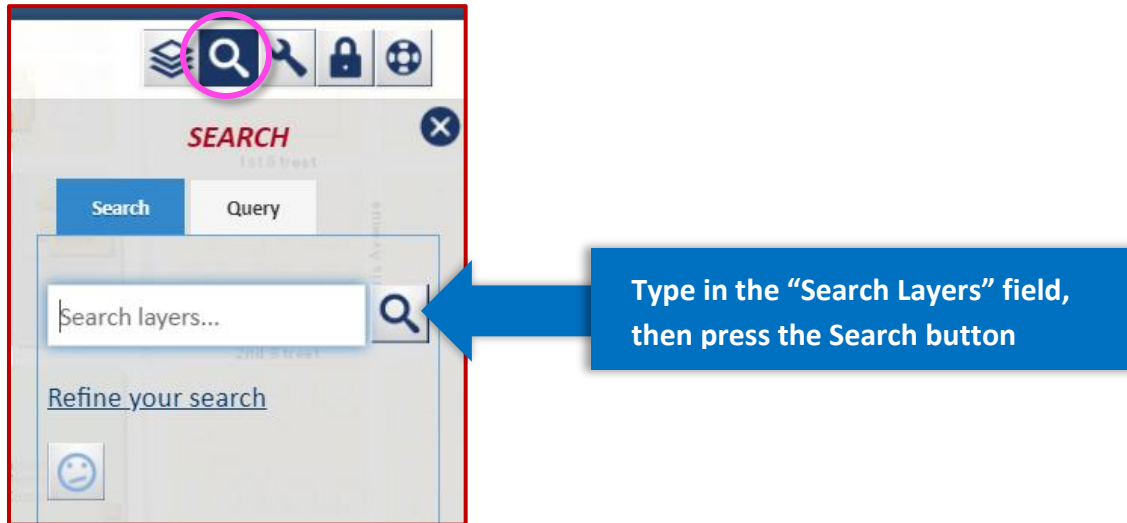
In this example, all of the layers turned on (left) will have these symbols or colors represented by the legend (right) as they are on the base map.

When you're ready, press the "Clear TOC" button to unselect all layers from the map. All colors/symbols will disappear.



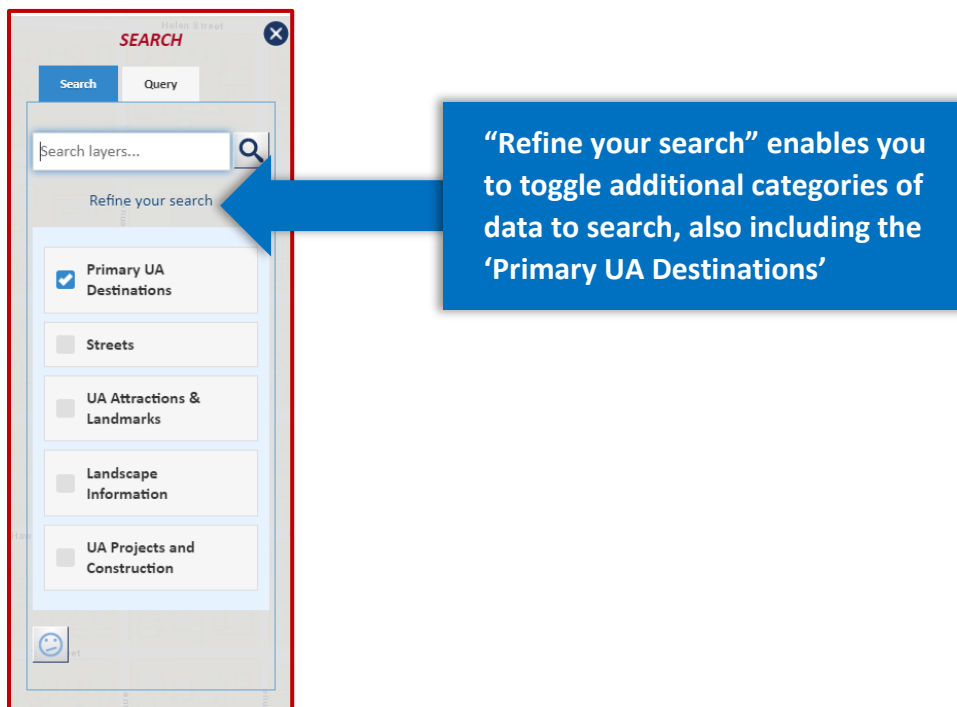
SEARCH

The SEARCH tab initially provides a basic search field.

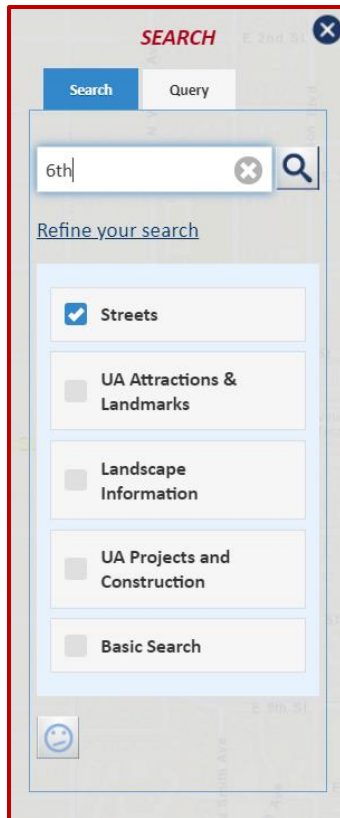


The basic search is performed on Buildings, Major Athletic Sites, UA Sites Statewide, Parking Lots, and Outdoor Destinations

The tab also enables you to refine your search:

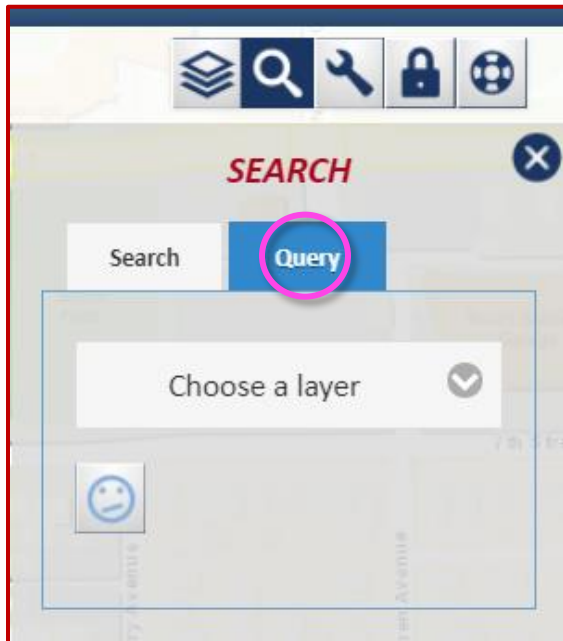


In this example, we only want to find streets associated with the word “6th.”



Notice how only Sixth (6th) Street is highlighted by the refined search.

The **QUERY** tab allows you to highlight certain map features based on various combinations of feature attributes.



When you press the QUERY tab it provides an option to choose a layer in the grey box. Press the box and choose a layer from the drop down list.

Once you have selected a layer, the layer name will be placed in the first grey box. Once the selected layer name is in the first grey box, three additional grey boxes appear for you to make selections from, as described below.

The screenshot shows a 'SEARCH' dialog box with a 'Query' tab. The dialog contains four main input fields, each with a dropdown arrow on the right. Blue callout boxes with arrows point to these fields:

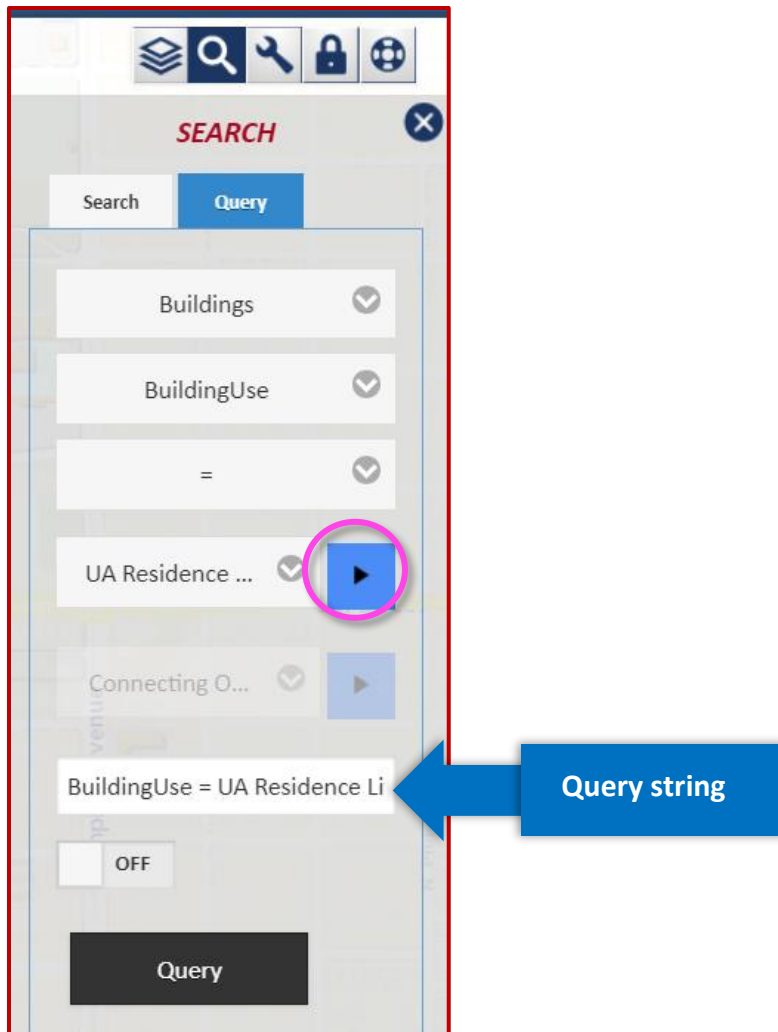
- Buildings**: The SELECT A FIELD box provides a list of data columns to choose from
- Select a Field**: The OPERATOR box provides a choice of operators that define how to filter the data, such as =, <, >
- Operator**: The VALUE box provides a list of data values that are included in the box you selected

A fifth field, 'Connecting O...', is partially visible at the bottom of the dialog.

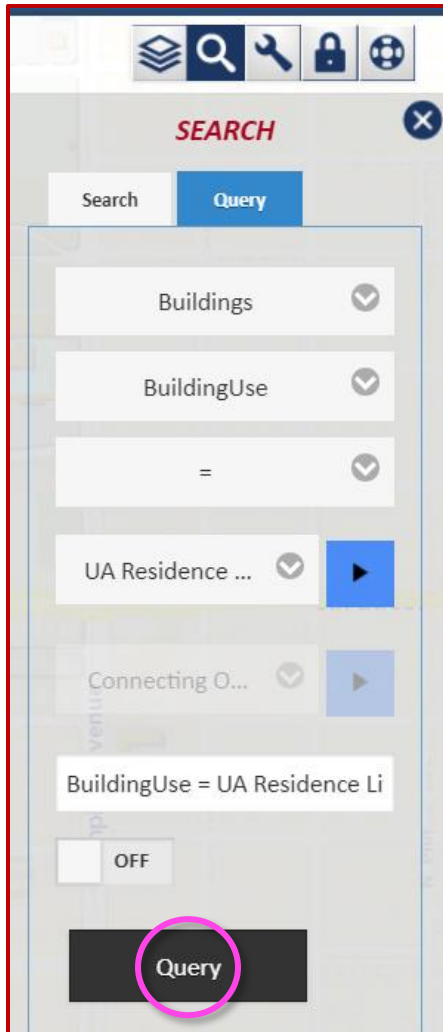
Once you have selected a Field, Operator, and Value, these selections are shown on the grey boxes.

In the example below, the Layer “Buildings” was selected, then the Field “BuildingUse,” the Operator (=), and the Value “UA Residence Life Housing.”

Once you have made the selections you wish, press the blue box with the arrow, and the *query string* will then appear in the white box below:



Once the query string has been added to the white box, press the black Query box:



The query will be executed and the results of the query will show in a new window at the bottom of the map.

In addition to a tabular listing of the QUERY RESULTS in the bottom window, the results are highlighted in green on the map:

Buildings.Name	Buildings.SpaceNum	Buildings.SpaceNumLetter	Buildings.Address	Buildings.AliasName	Buildings.SISAbbrev	Buildings.City	Buildings.GrossArea	Buildings.UASiteID	Buildings.BID	Buildings.Shape_A
Apache Nonresidential	50.02	50B	570 N Highland Ave			TUCSON	1442	10	285	147.80731499560758
Apache Residence Hall	50.01	50A	570 N Highland Ave			TUCSON	29434	10	284	1188.9157867402018
Arbol de la Vida Residence Hall	132	132	515 N Tyndall	ARBOL		TUCSON	234455.27	10	258	6704.399681037433
Arizona Residence Hall	84	84	910 E S St	Arizona-Sonora Hall		TUCSON	62367	10	293	821.5528300518753

If you press one of the rows in the QUERY RESULTS window, that row will be highlighted in darker green and the corresponding feature will be highlighted darker and zooms to the location on the map as well.

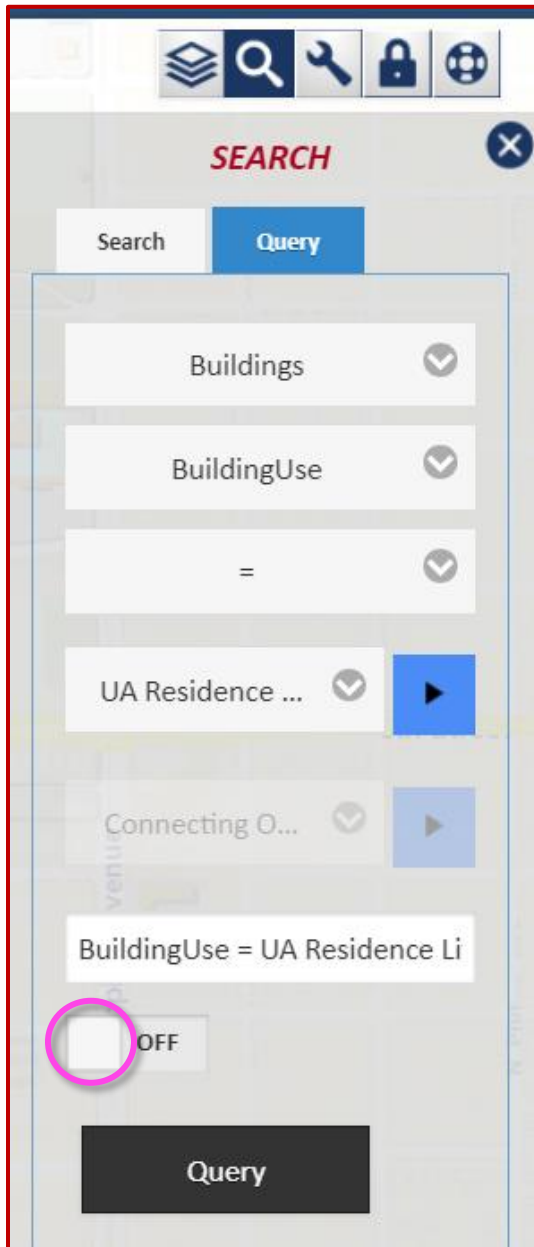
The QUERY RESULTS window also gives you the option of downloading the results as a spreadsheet:

Shape_A

147.80731499560758

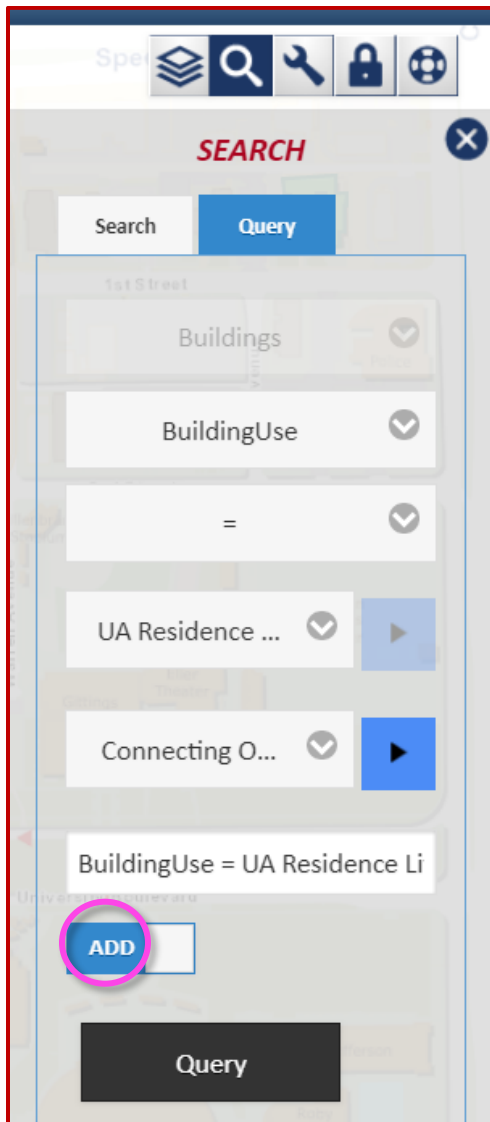
1188.9157867402018

Once you have created an initial query, you may then refine the same query with additional fields or values from the same layer. To start, press the OFF button.



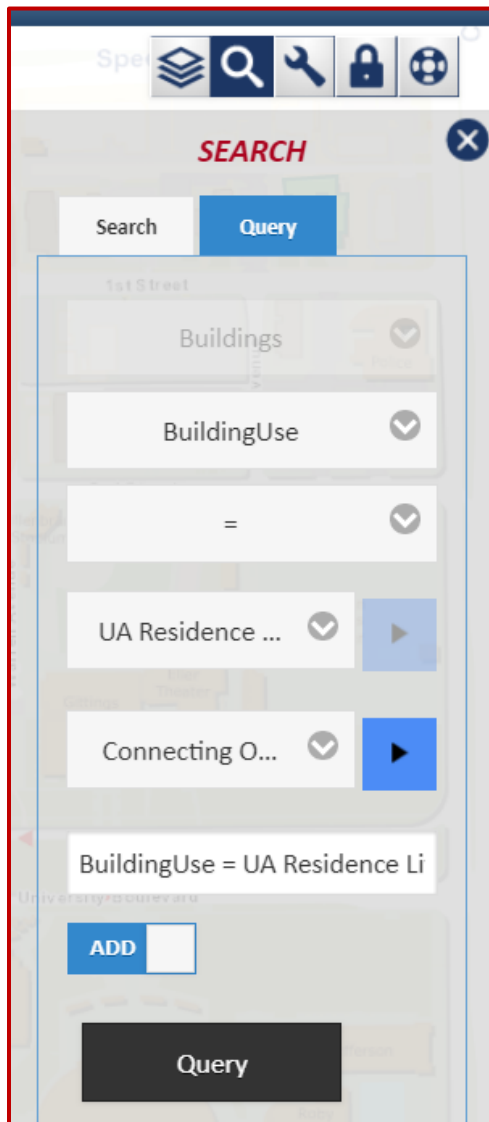
You can either press the word OFF or slide the white square to the right

After pressing the OFF button, it becomes blue and reads ADD.



Once the button reads ADD, you may select another Field, Operator, and Value.

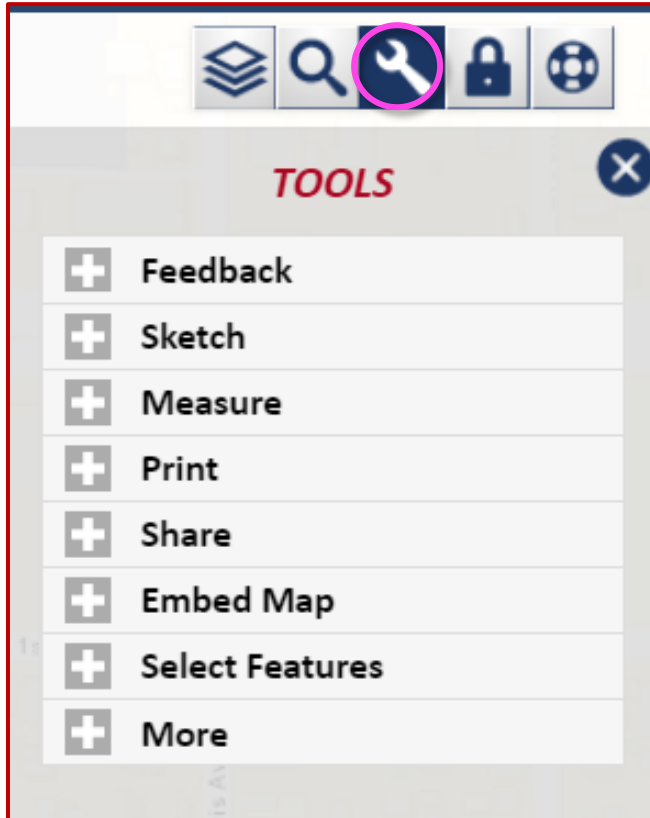
In addition to these parameters, you need to make a choice from the grey box labeled “Connecting.” This defines how the original query statements should be appended with the new query statements. Choose from “AND, OR, NOT,” then press the blue box with the arrow in order to put the refined query statement into the white box, and then press the black “Query” button:



You can refine queries on only a single map layer. In this example, a second data field and attributes are used to refine the Query

TOOLS

To get to the TOOLS tab, press the icon with a picture of a wrench.



Press on the respective  button to open a tool.

The **FEEDBACK** tool provides a way for the campus community to help keep our GIS data correct and up to date, as well as to provide general feedback about Campus 360.

The screenshot shows a web interface for a feedback tool. At the top, there is a navigation bar with icons for layers, search, tools, lock, and a globe. Below this is a header with the word "TOOLS" in red and a close button. The main content area is titled "Feedback" and contains four steps:

- STEP 1: Provide written description*** - A text input field.
- STEP 2: Attach a picture of the issue** - A file selection button labeled "Choose File" with the text "No fil...hosen" next to it.
- STEP 3: Sketch issue on the map** - A set of five icons: a location pin, a hand, a polygon, a rectangle, and a close button (X).
- STEP 4: Submit feedback** - A large blue "Submit" button.

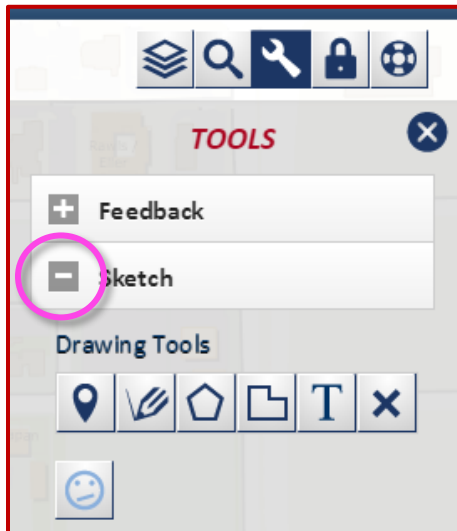
At the bottom left, there is a legend: ***Mandatory fields**.


You may provide a written description of something to be corrected, attach a photo of it, and then submit the feedback. If your feedback pertains to how the map functions, as opposed to the content of what is shown, please inform us of what type of device and browser you are using to view the map

We will explore the Sketch tools starting on the next page

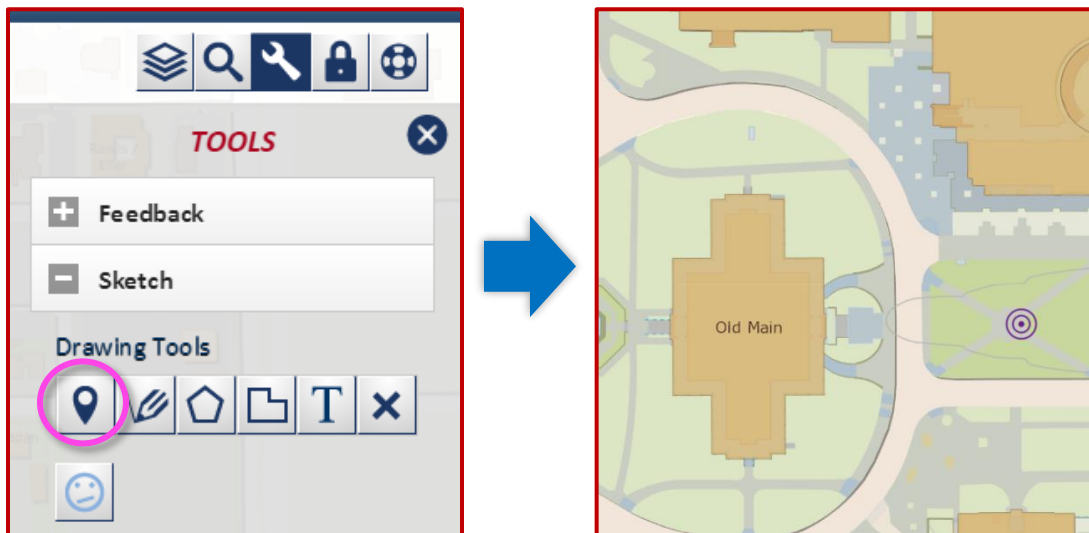
The GIS team will research and address issues reported. If you would like to be contacted about your feedback, please include contact information in your message.

The user-friendly **SKETCH** tool enables you to mark up the map that you are viewing.

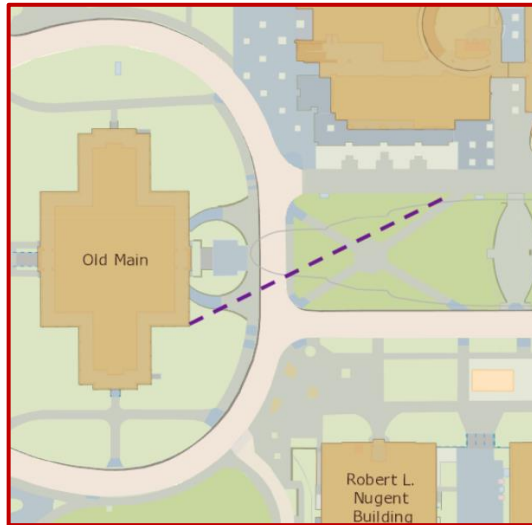
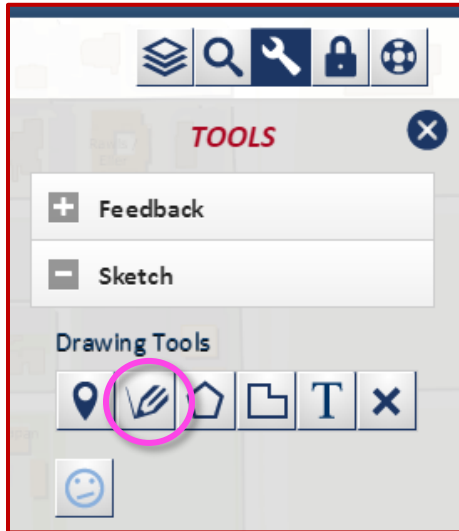


To clear all sketches from the Webmap at any time, press the  button. Okay, let's sketch!

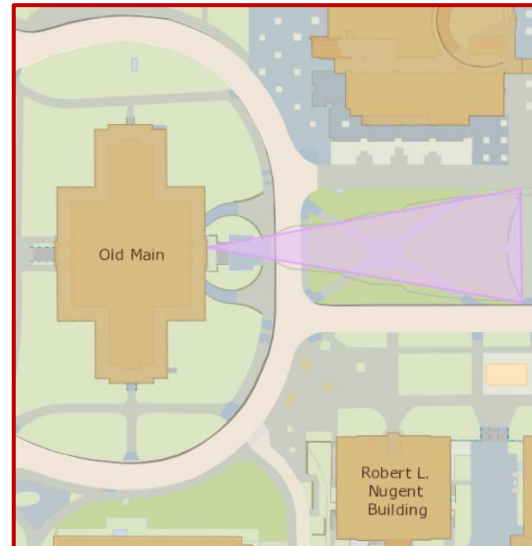
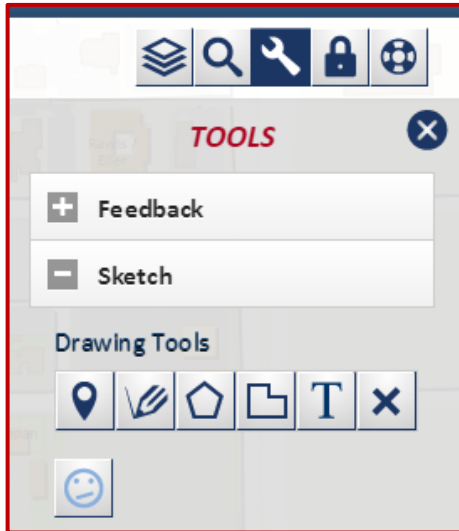
You can “drop” a point:



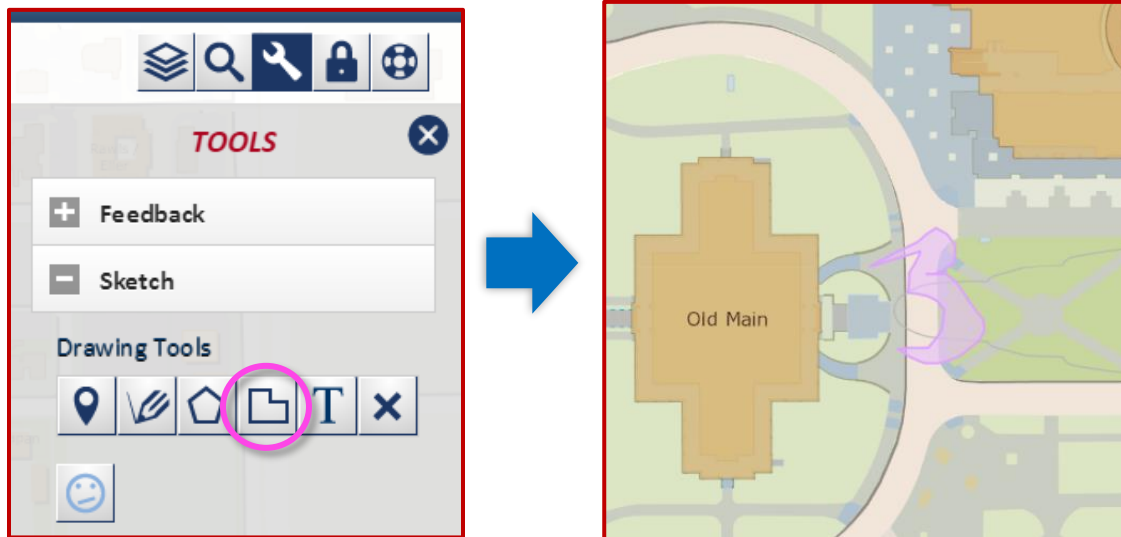
Draw a *polyline*:



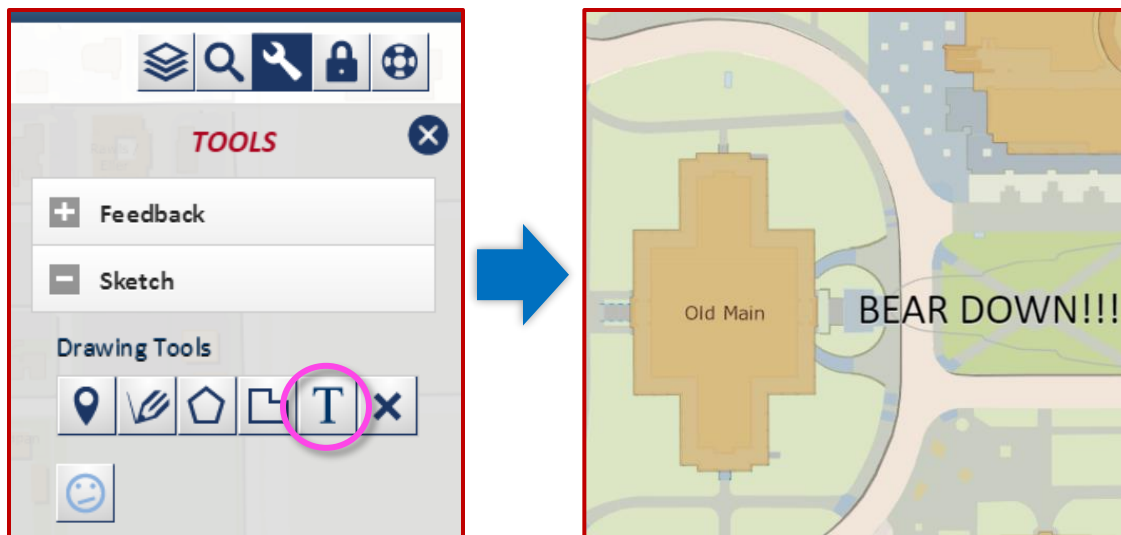
Draw a *polygon*:



Draw a *freehand polygon*:



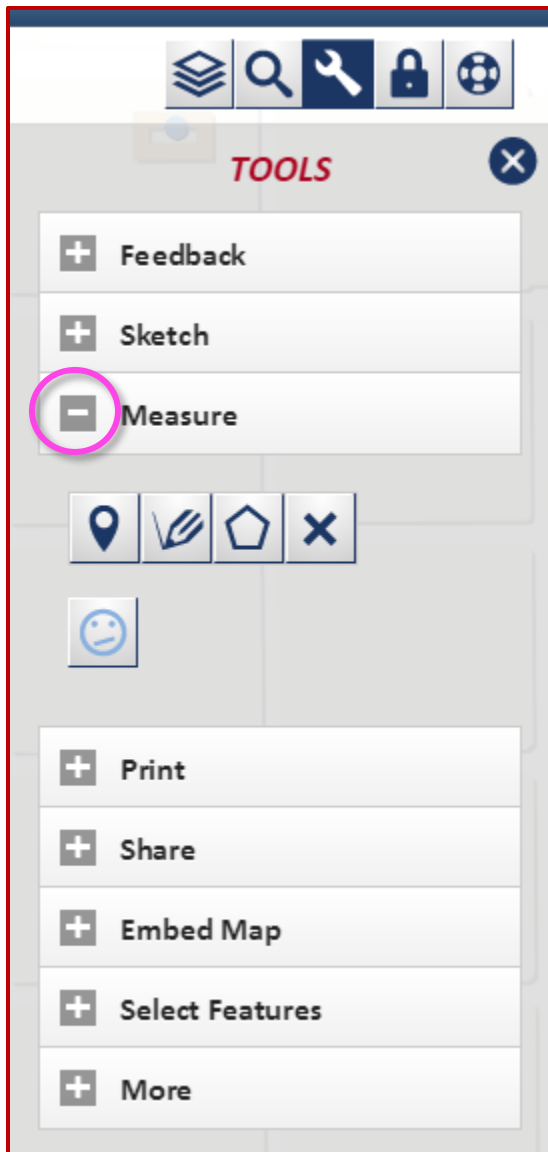
...and insert editable text:



▼ Before you move on to another Web Map function, make sure to finalize your sketch by pressing somewhere else on the map, or else the webmap may freeze up.

We find that the easiest way to share your Campus 360 sketches is with a *screen capture tool*. This will create a picture file of your image that you can save and upload.

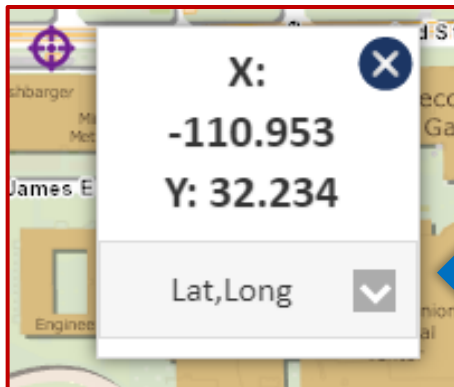
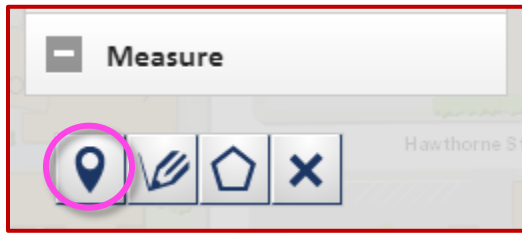
The **MEASURE** tool is very useful.




It allows you to determine geographic coordinates of a point, measure length, and measure area.

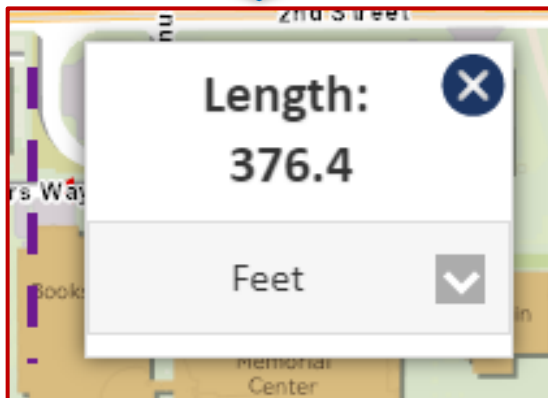
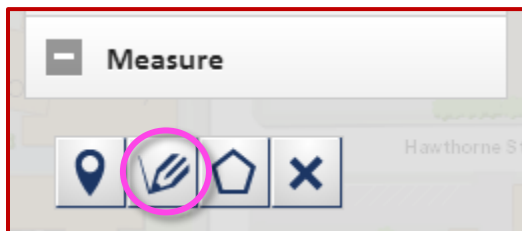
Let's try it!

Determine geographic coordinates of any point on the map:



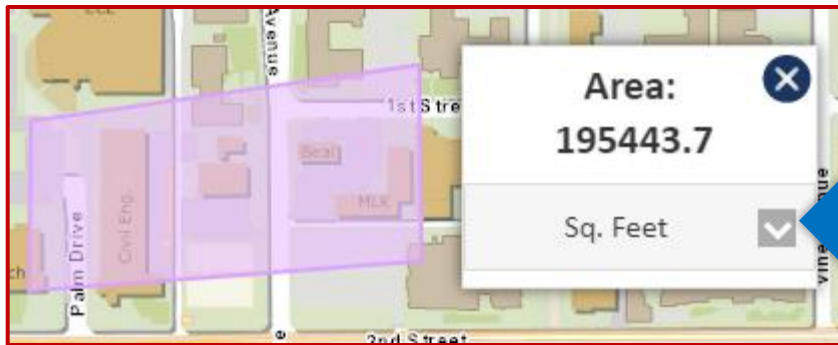
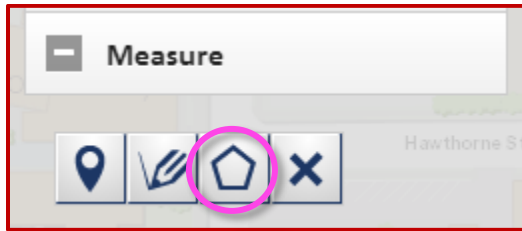
Press the  button to toggle Lat, Long or State

Measure length:



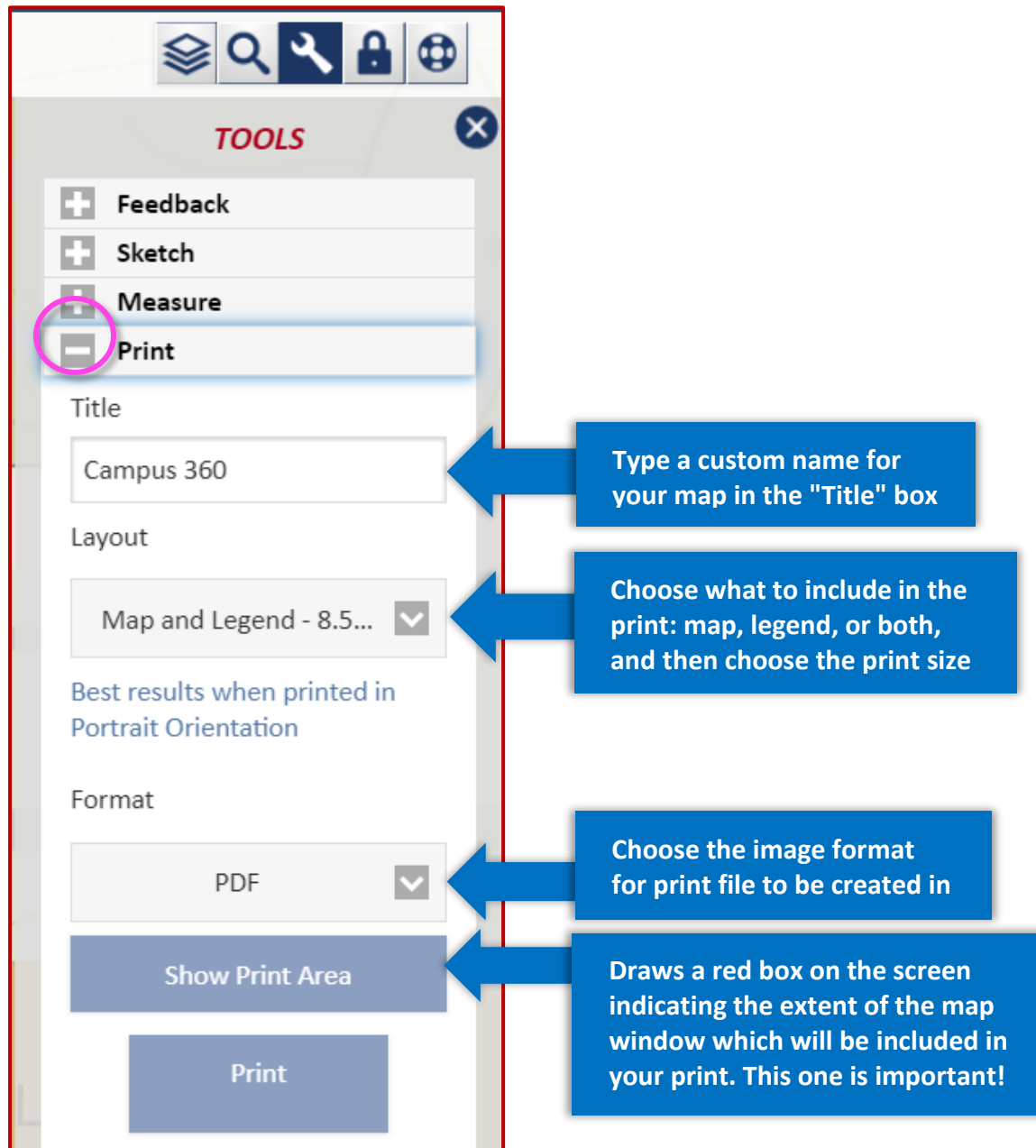
Toggle Miles, Feet, Km, Meter

Measure area:



Toggle Acres, Hectares, Sq. Feet, Sq. Km, Sq. Meters, Sq. Miles

The **PRINT** tool enables you to customize your prints.



The screenshot shows the 'TOOLS' panel in a GIS application. The 'Print' tool is selected and highlighted with a pink circle. The panel contains the following elements:

- Title:** A text input field containing 'Campus 360'. A blue callout box points to this field with the text: "Type a custom name for your map in the 'Title' box".
- Layout:** A dropdown menu showing 'Map and Legend - 8.5...'. A blue callout box points to this dropdown with the text: "Choose what to include in the print: map, legend, or both, and then choose the print size".
- Format:** A dropdown menu showing 'PDF'. A blue callout box points to this dropdown with the text: "Choose the image format for print file to be created in".
- Show Print Area:** A button that, when clicked, draws a red box on the screen indicating the extent of the map window which will be included in your print. A blue callout box points to this button with the text: "Draws a red box on the screen indicating the extent of the map window which will be included in your print. This one is important!".
- Print:** A button at the bottom of the panel.

The "Print" button will initialize the process of creating the map image file. A *.pdf* or *.jpg* will then open in a new window. When it is ready you may save the image file or send it to your printer.

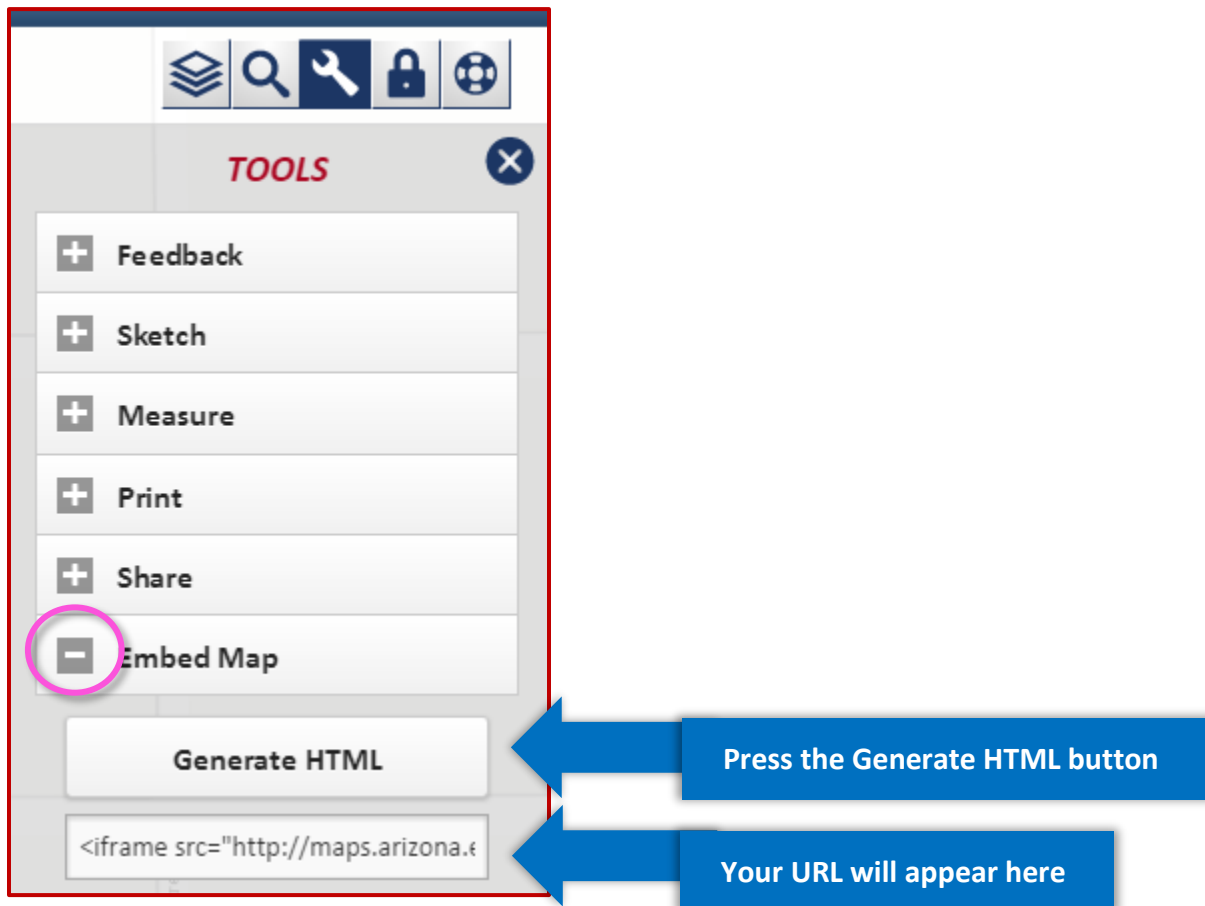
The **SHARE** tool creates a URL that captures the base map as well as the layers you have selected. You may send this link to others to paste into their web browsers.



Steps:

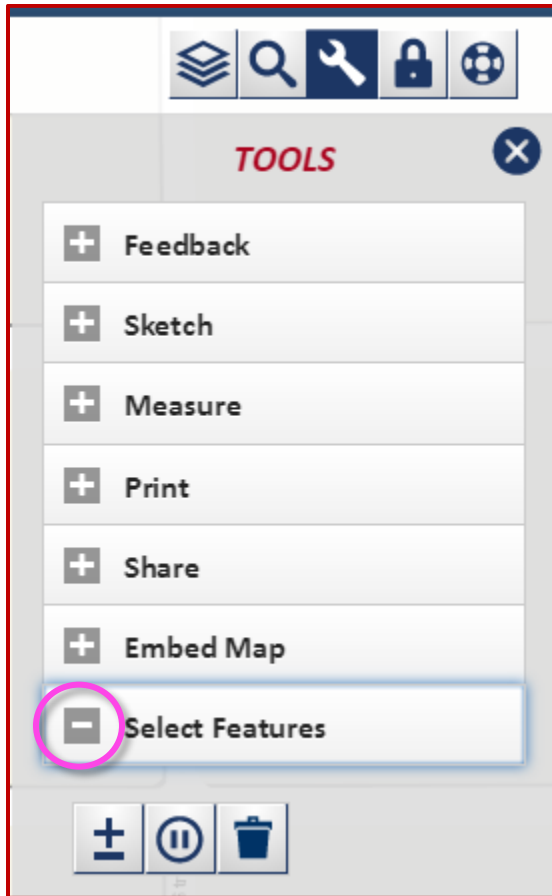
- Press "Create Share Link" button. A share link will be added to the white box.
- Copy the link and paste into email or other documents that you want to share.
- If you would like to share the link via social media tools, press the social media icons to open the desired application.

The **EMBED MAP** tool generates HTML code for your customized view of Campus 360 (it retains the basemap and layers that you have selected) that you can copy and paste into a website so that a version of Campus 360 will appear on the website.

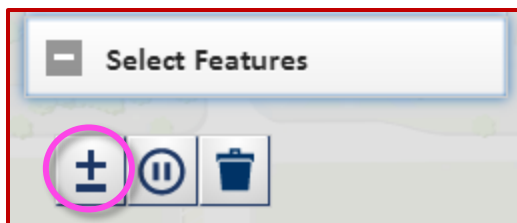


The image shows a screenshot of the 'TOOLS' panel in the Campus 360 interface. The panel is titled 'TOOLS' and contains several options: Feedback, Sketch, Measure, Print, Share, and Embed Map. The 'Embed Map' option is highlighted with a pink circle. Below the options is a 'Generate HTML' button. At the bottom of the panel, there is a text box containing the HTML code: `<iframe src="http://maps.arizona.€"`. Two blue arrows point to the 'Generate HTML' button and the text box, with labels: 'Press the Generate HTML button' and 'Your URL will appear here'.

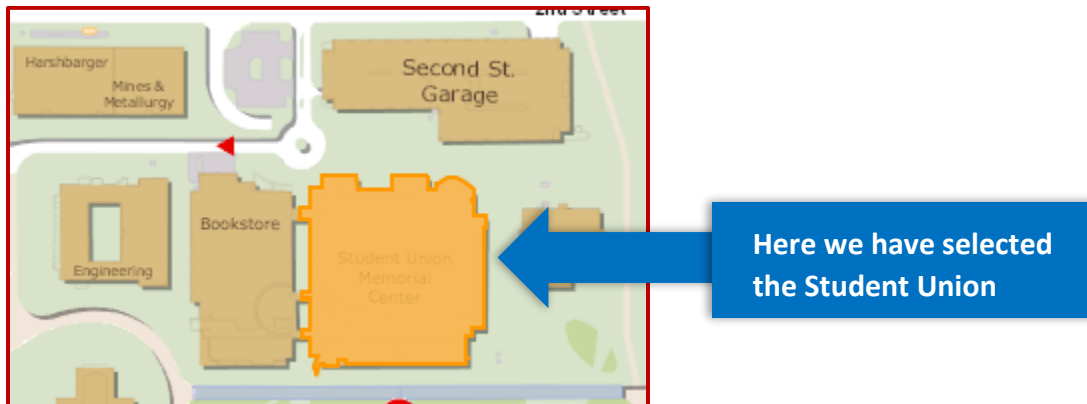
The **SELECT FEATURES** tool enables you to highlight certain features at will:



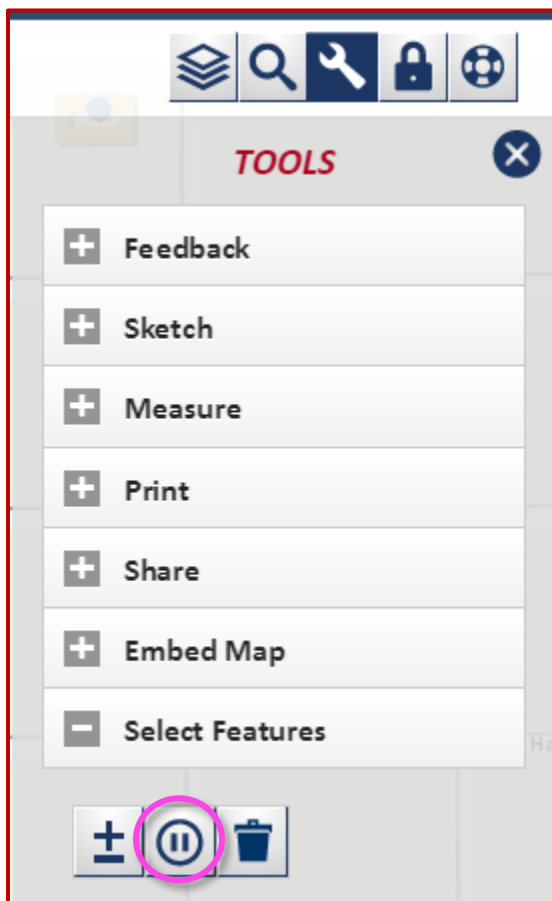
Press the  button:



Then click a feature on the map to distinguish it from the other features.



To stop selecting features, press the “Stop Modifying Selections” icon.



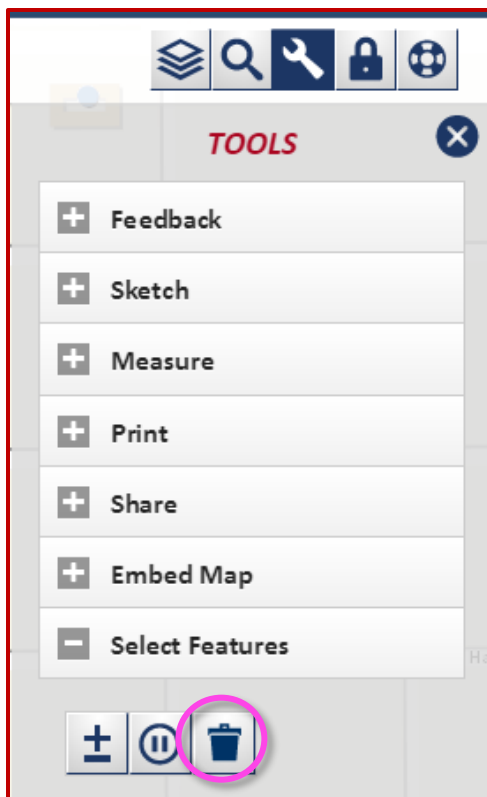
Selected features will remain selected even if you start other actions, but you will no longer be able to select or de-select features.

FYI:


Buildings, Parking Lots, and UA Site Points are selectable by default. Several other layers are selectable once they are turned on within the TOC. This Includes:

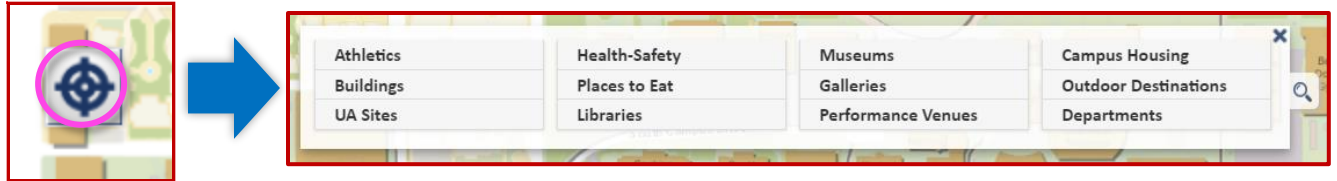
- Cat Tran Stops
- Campus Residential
- Galleries
- Outdoor Destinations / Campus Open Spaces
- Performace Venues
- Places to Eat
- Trees

To de-select all features, press the “Delete All Selections” icon. It looks like a trashcan.

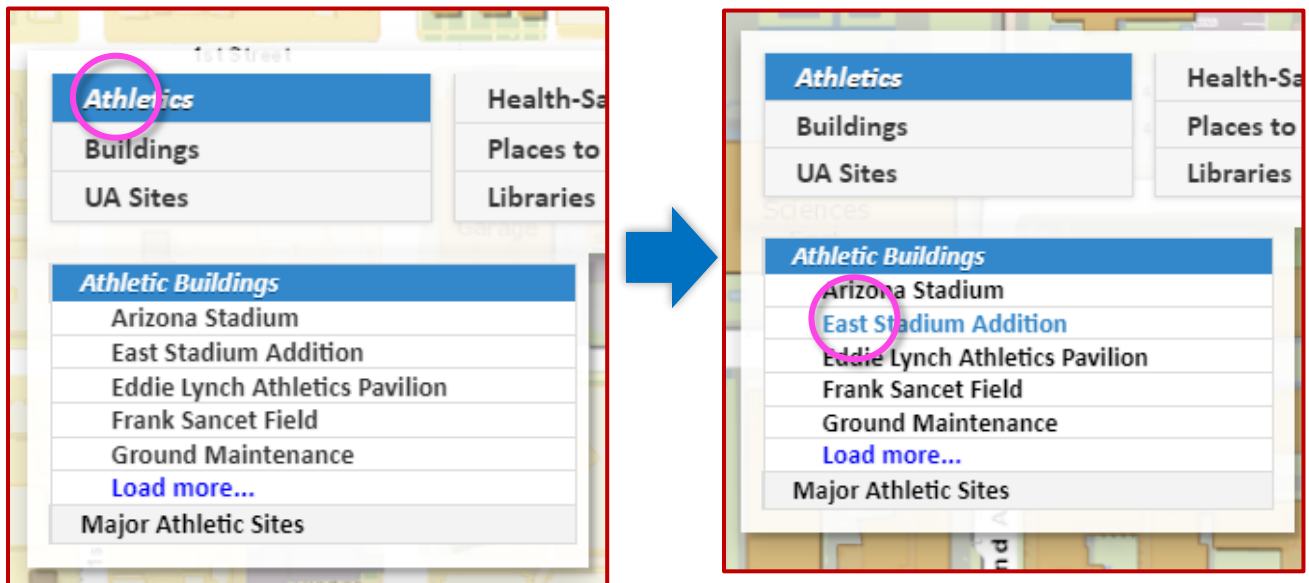


MENU

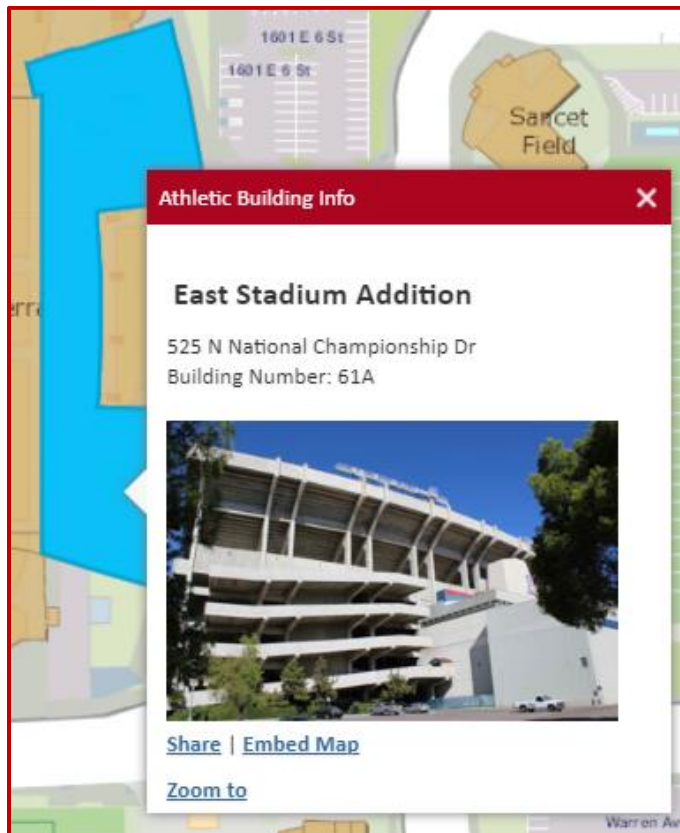
Press top left icon  on the map to open **Menu Options**.



You can select Athletics, Buildings, UA Sites, Health-Safety, Places to Eat, Libraries, Museums, Galleries, Performance Venues, Campus Housing, Outdoor Destinations and Departments from the menu options. Once you do this sub-categories are listed.



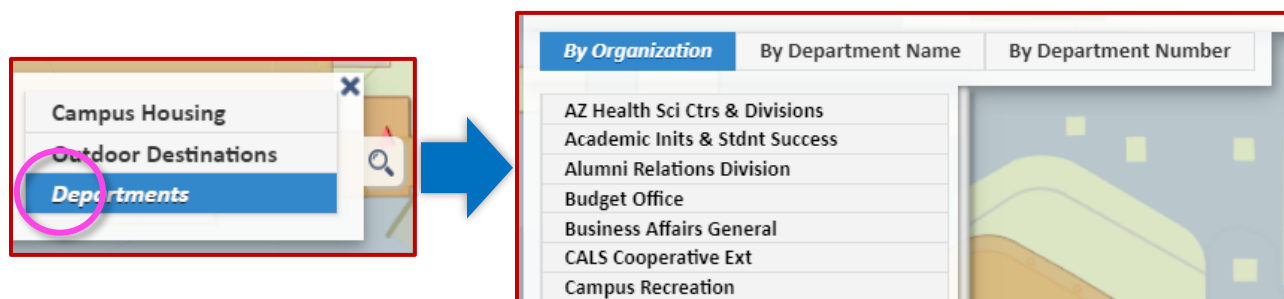
Once you select a sub category, the map will zoom to its location.



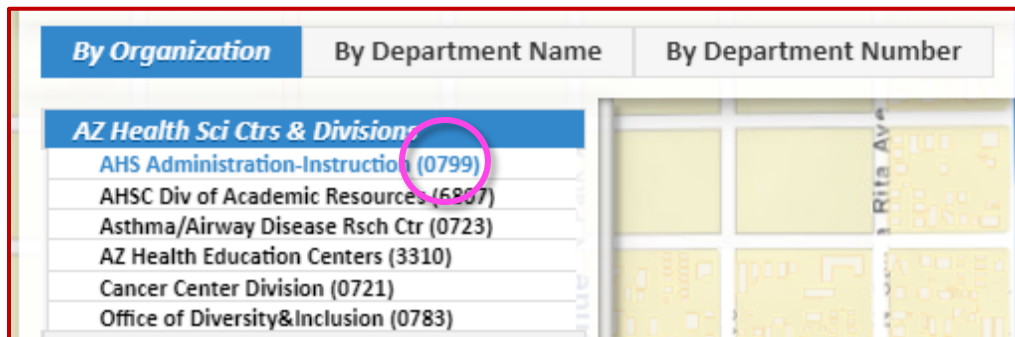
The East Stadium Addition was selected under the “Athletic Buildings” Category in the Athletics menu. The result is the selected building on the map, and a flyout window with that building’s information

Other menu options including Health-Safety, Museums, Campus Housing, Buildings, Places To Eat, Galleries, Outdoor Destinations, UA Sites, Libraries and Performance Venues work on the same pattern.

You can access **Departments** categories by clicking Departments in the Menu, this will open sub-categories under Departments in the menu. By default the 'By Organization' option will be expanded. You can change this option by clicking on either 'By Department Name' or on 'By Department Number'

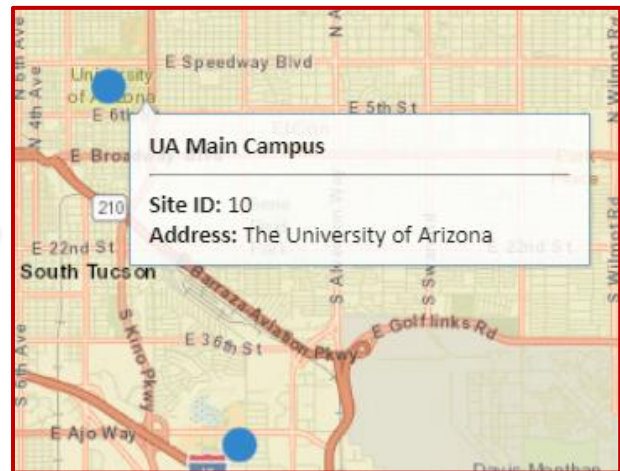


When a Department is selected, it will highlight all of the buildings on the map in blue. (As seen in the images below).



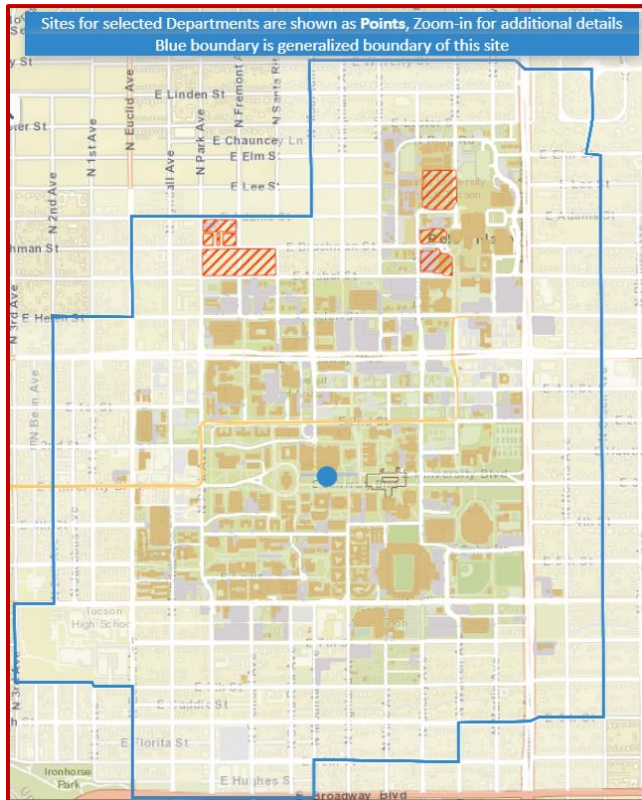
If a selected department exists in buildings that are spread out beyond the city zoom level, the map will be zoomed out and the site points for the locations where the buildings are located will be highlighted in blue. If you mouse over the site point, it will show a tip displaying information about that site.

AZ Health Sci Ctrs & Divisions
Academic Inits & Stdnt Success
Alumni Relations Division
Budget Office
Business Affairs General
CALS Cooperative Ext
Campus Recreation
College of Agric and Life Sci
Agric & Resource Econ-Ins (0118)
Agric Biosystems Engr-Ins (0122)
Agricultural Education-Ins (0108)
Animal&Biomedical Sciences-Res (2450)
Boyce Thompson Arboretum (0104)
CALS Administration (0152)
CALS Career & Acad Svcs (0101)
CALS Comm and Technologies (0153)
CALS Devel and Alumni Affairs (0151)
Campus Agriculture Center (2406)
DK Ranch (2427)
Entomology-Ins (0131)
Maricopa Agricultural Ctr-Res (2430)
Nutritional Science-Ins (0123)
Research Administration (2401)
Safford Agriculture Center (2415)
Sch of Family & Consum Sci-Ins (0107)
Sch of Nat Resource&Enviro-Res (2412)
School of Plant Sciences-Res (2425)
Soil Water and Enviro Sci-Ins (0121)
V-Bar-V Ranch-Res (2428)
Water Resources Rsch Ctr-Res (1202)
Yuma Agriculture Center-Res (2429)
College of Education
College of Engineering

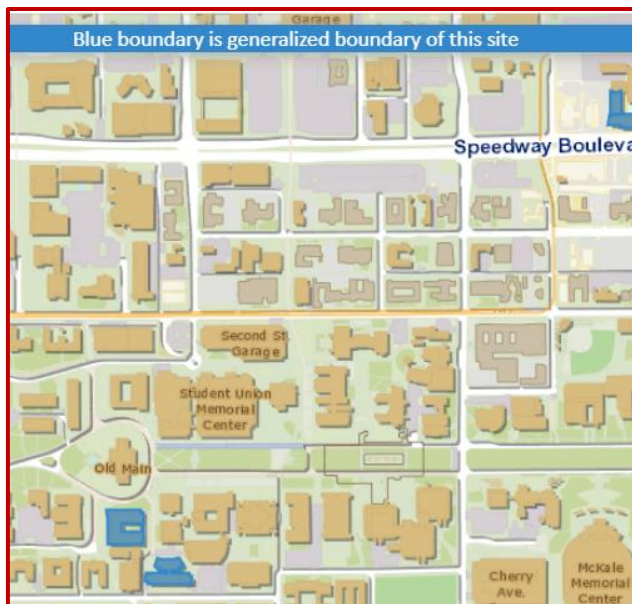


**‘Nutritional Sciences-Inc’
Department is selected from
the menu, it exists at two site
locations. Mouse over a site
point shows tooltip.**

By zooming in on a site point, site boundaries will be shown along with the site points. A message explaining the current map state will appear at the top.



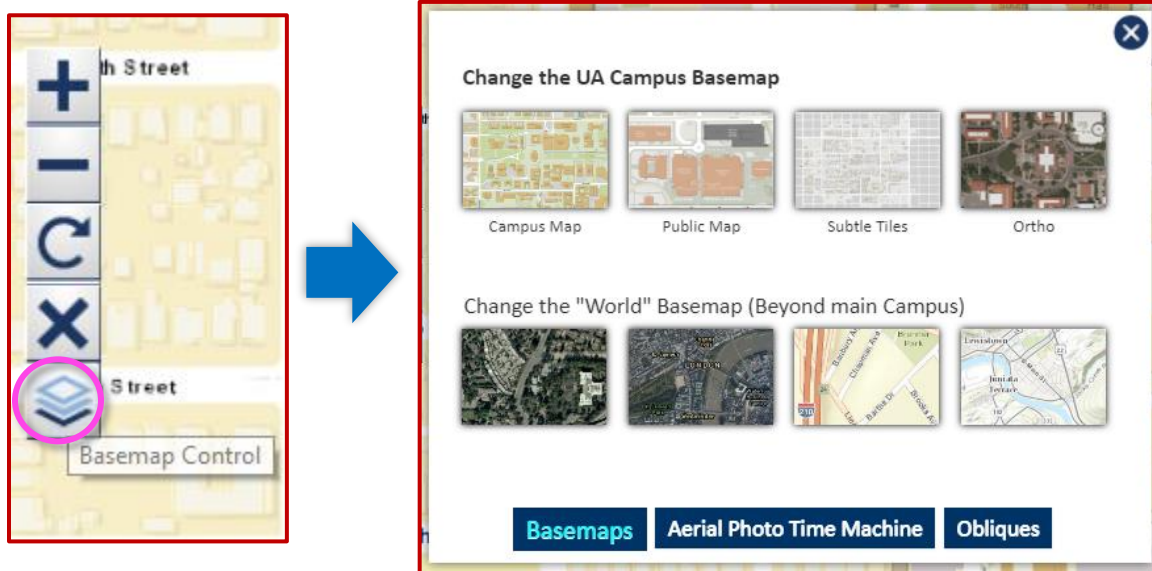
Further zooming in to the map will display the buildings that have selected department present in them.



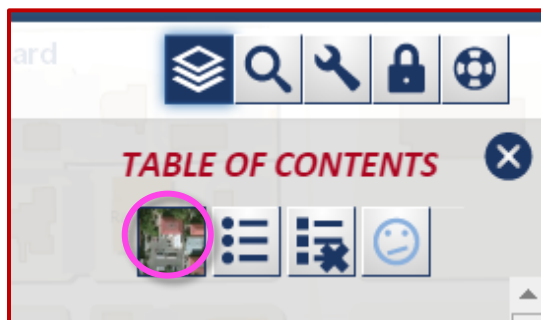
Buildings that have selected department exists shown when zoom-in to map

BASEMAP TOOL

Use the "Basemap Control" button to open Basemap tool of Campus 360.

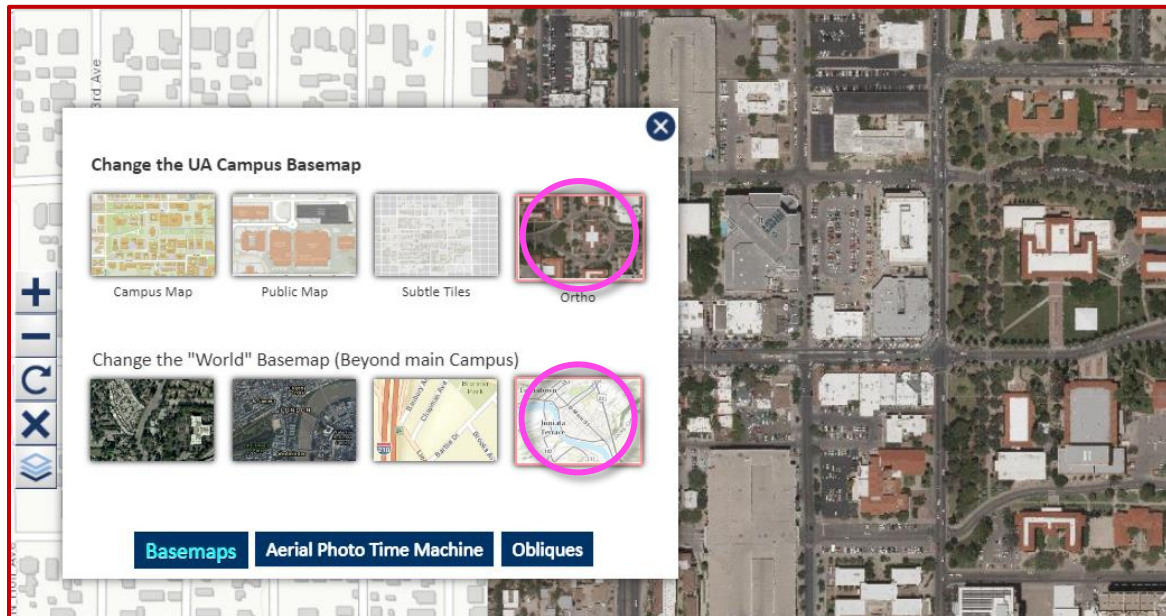


You can also open the Basemap tool by pressing the first button on the TOC as shown in the image below



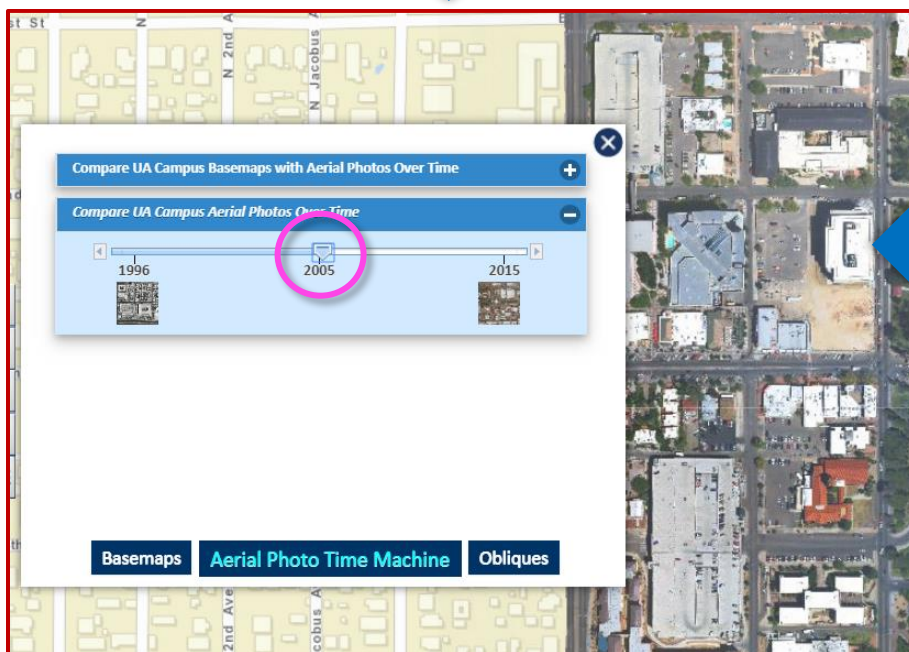
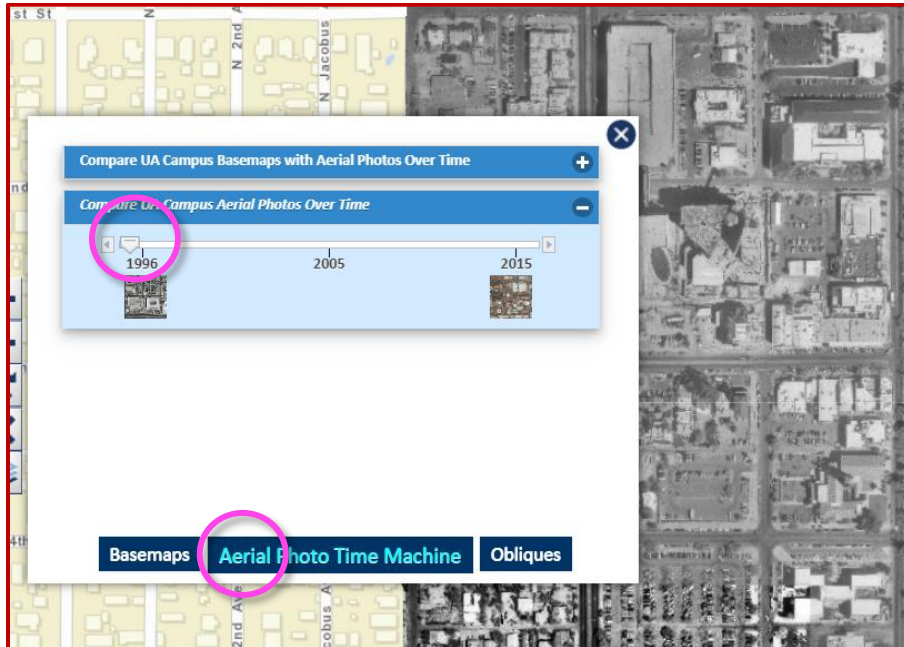
By default, the **Basemaps** tab is active in Basemap Control tool.

Clicking on any basemap option under the *“Change the UA Campus Basemap”* section will switch the basemap for the UA campus and choosing a basemap option from *“Change the World Basemap”* will switch the world basemap for the area surrounding campus.



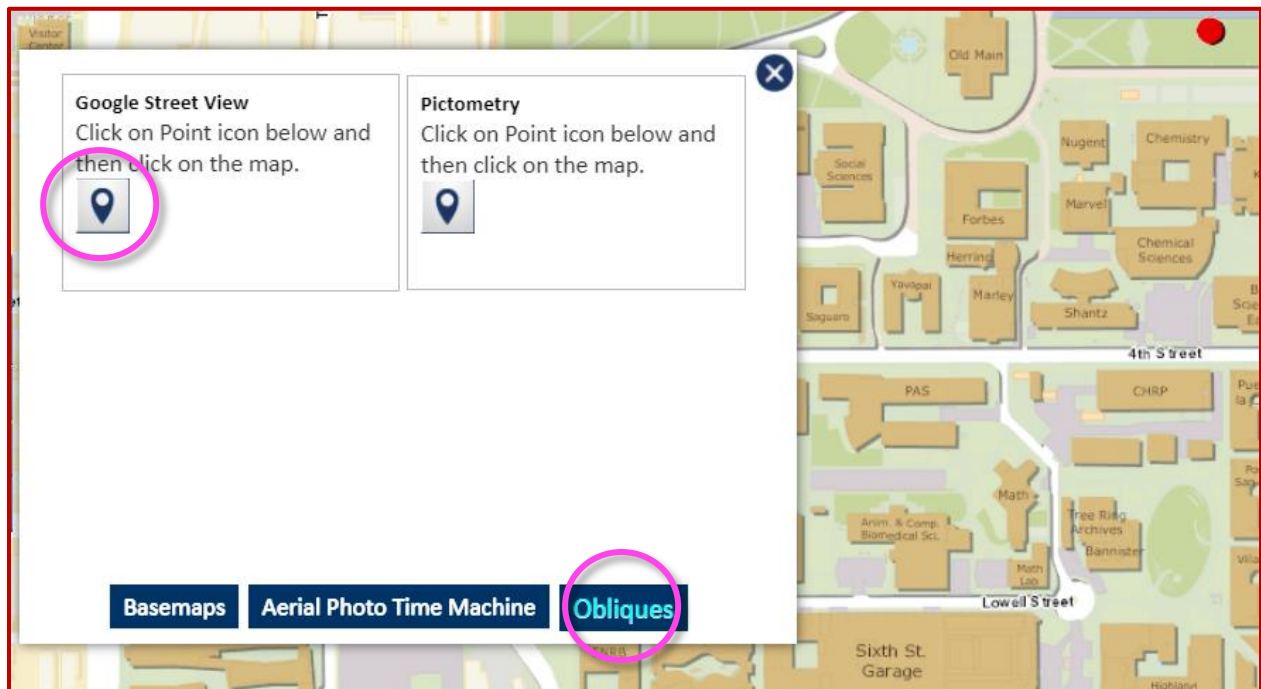
UA Ortho and World Topology basemaps are selected in image above and these selections are reflected from map


Selecting the **Aerial Photo Time Machine** tab in the Basemap Tool will let you to Compare UA Campus Basemaps with aerial photos over time, as well as comparing UA campus aerial photos over time without a basemap overlay

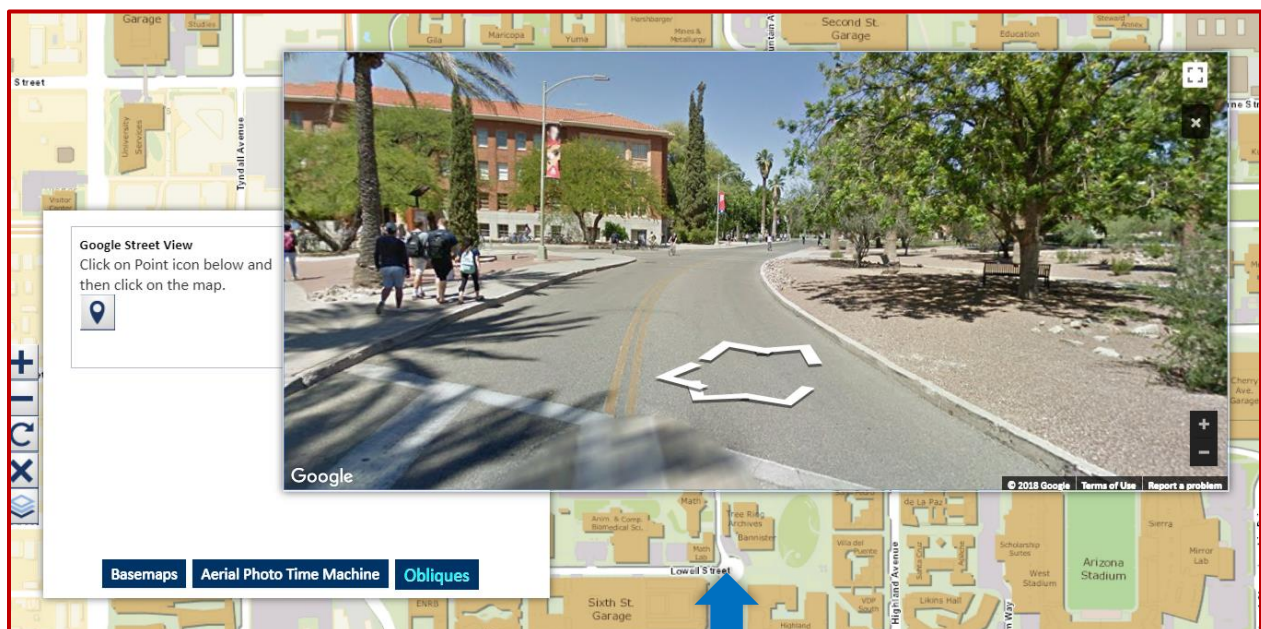


Changing slider position in Compare UA Aerial Photos will switch Aerial Imagery on the map.


Selecting the **Obliques** tab will switch to the panel of the basemap tool where you can enable Google Street View and Pima County Pictometry Images for a selected location of campus.



If you select the point icon  under *Google Street View* and then click anywhere on the map, Google Street View for the selected location will open.



Click anywhere outside Google street popup will dismiss Google Street view

Selecting the point icon  under the "Pictometry" section will open Pictometry oblique images of the selected point in a popup window.

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