Using the Mobile GIS App

Thank you for your interest in Davidson County, NC GIS.

We hope you find this training document to be easy to use in understanding how to use the Mobile GIS Application.

Notes about this Training Document

- This training document is intended to aid you in the use of the Davidson County GIS Mobile App on your mobile device.

  Photos in this document were taken using an iPad mini.

This training document was developed in January 2017.

This training document has been developed in an effort to assist you in the use of the Mobile GIS App. However, your screen/settings may appear slightly different than is shown in the training document.
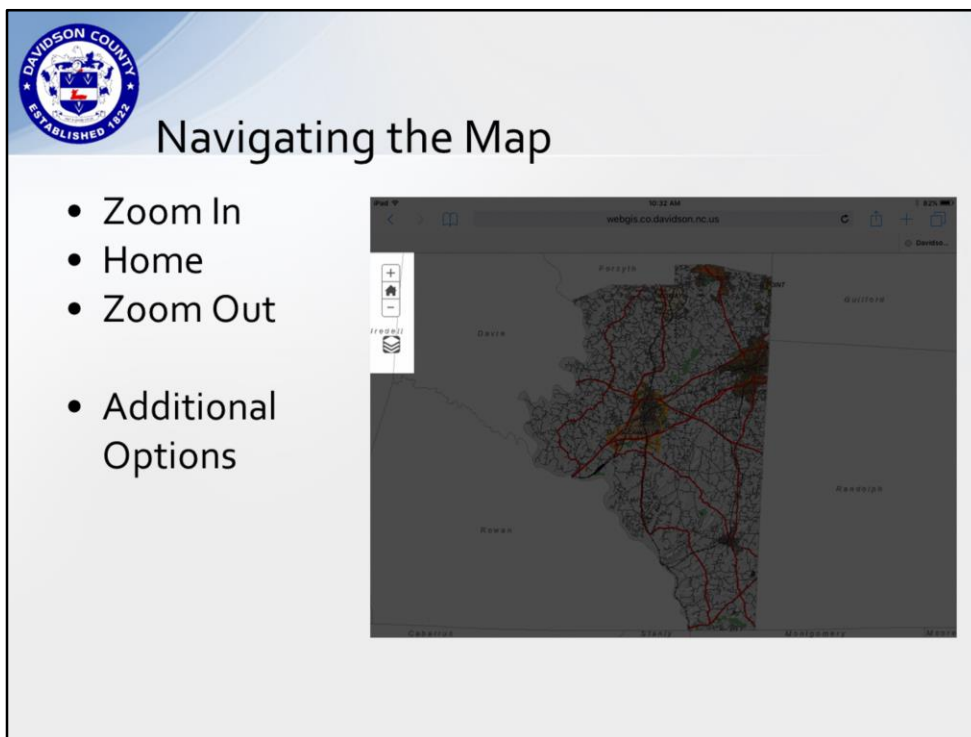
Navigating the map can be done in a number of ways, the first of which is to use one of the buttons on the left.

From top to bottom, they are:
- Zoom In: Zoom in a fixed amount on the map.
- Home: Zoom to the full extent of the map.
- Zoom out: Zoom out in a fixed amount on the map.
- Additional Options: Interact with the map in a number of different ways. This will be explained further in the documentation.

Also, as mobile devices are responsive, you can interact with the map by "pinching" on the screen to either zoom in or out.
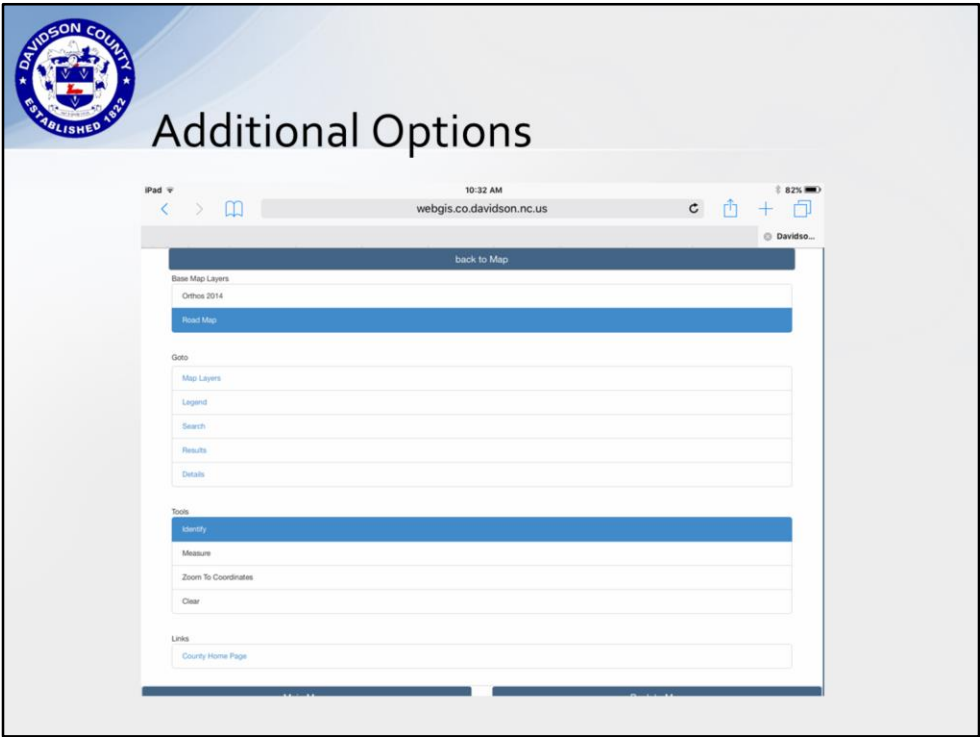
Clicking the Additional Options button on the main screen presents the user with a number of different options. Each will be explained in further detail on subsequent pages.
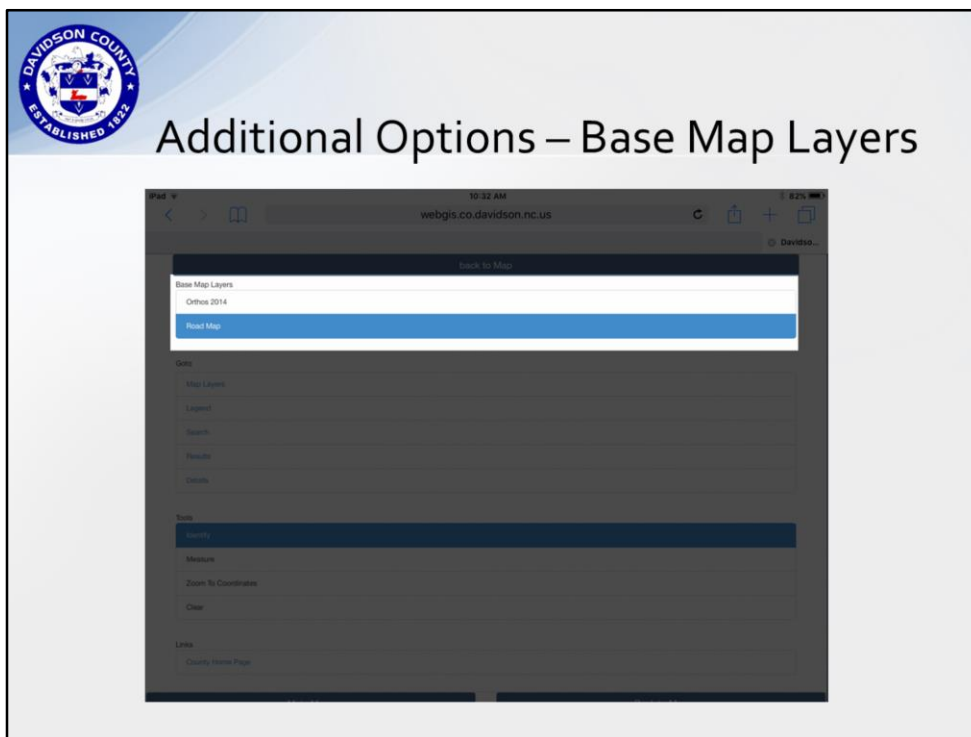
A base map layer is information that is shown underneath the other data like parcels. Two options for base map layers are available in the mobile application.

By default, the road network is shown as the background to the Davidson County map.

Another option is to turn on the aerial photos from March 2014. To turn them on, simply select Orthos 2014 from the options shown.

Then, choose Back to Map (button at the top of the screen) to return to the map.
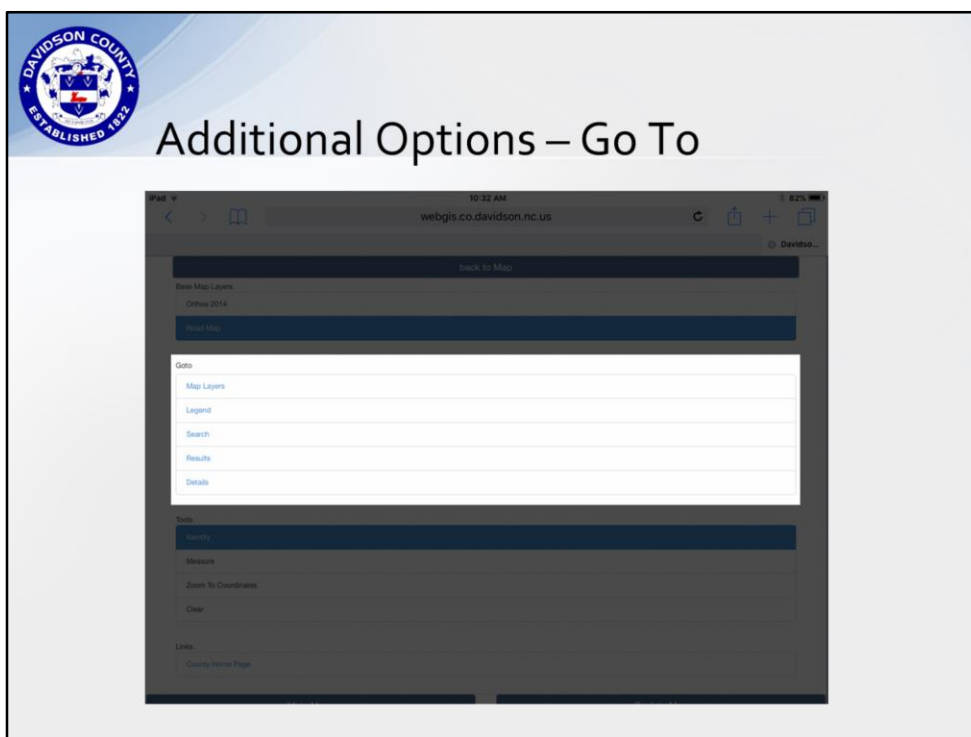
The next section of the Additional Options page has a variety of choices for interacting with the map.

Each of them is provided below, with a brief description.
 - Map Layers: Interact with the layers in the map to turn them on or off.
 - Legend: View the legend for the map to better understand the symbology, etc.
 - Search: Perform a search on a number of different layers.
 - Results: View the results of a search.
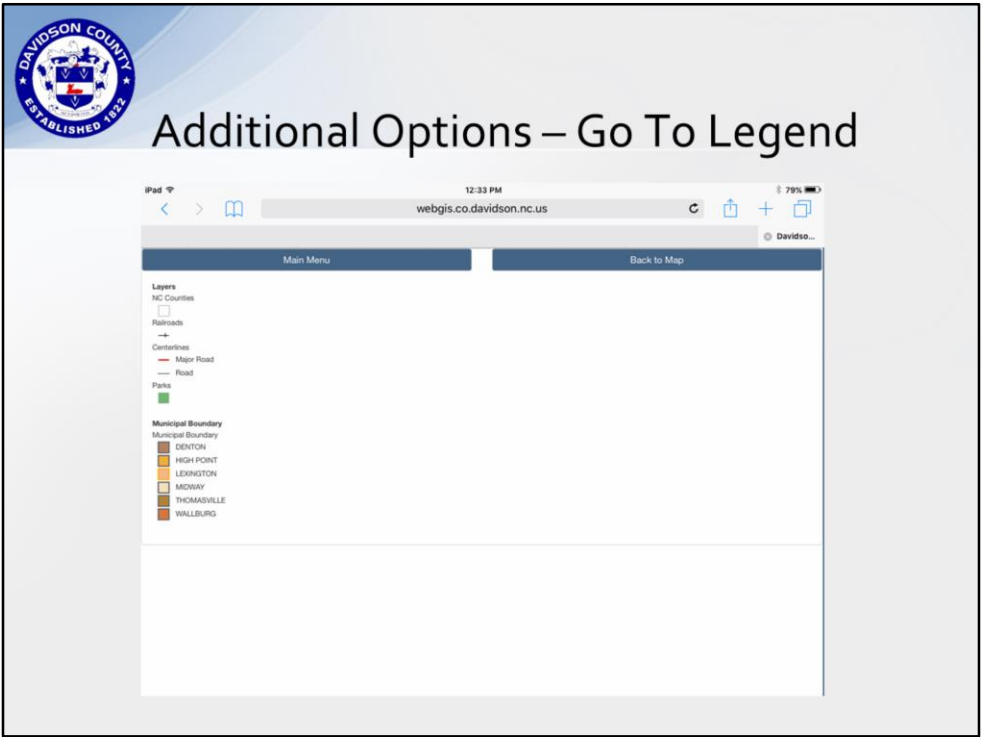 - Details: View the details of a particular record that you chose.

Each will be explained in further detail on subsequent pages.
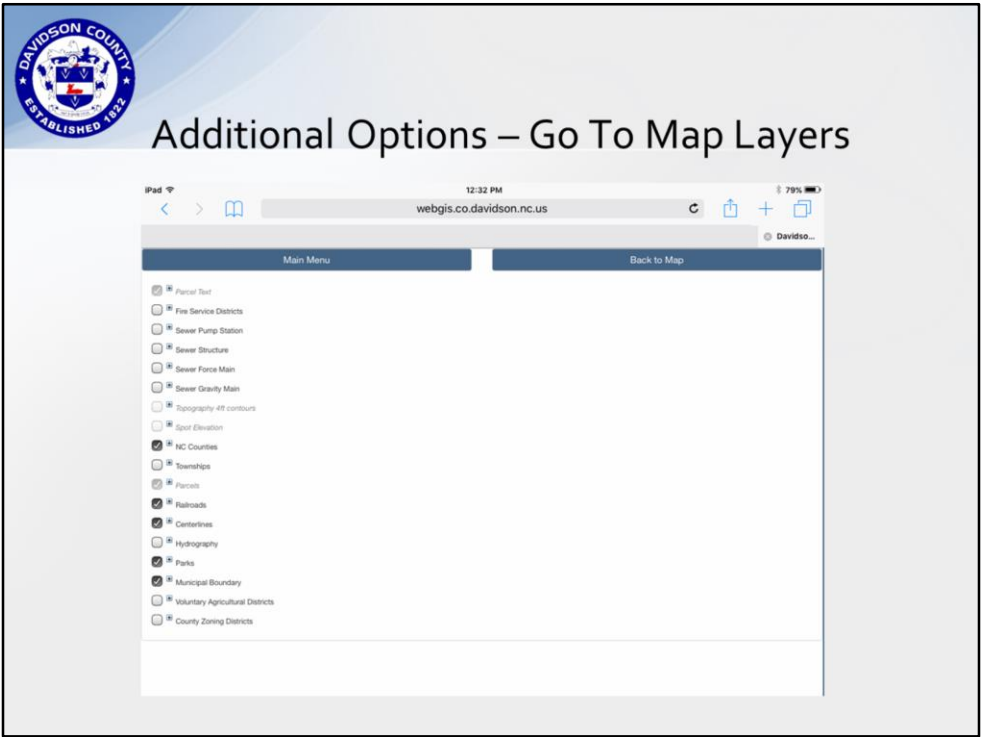
Go To Map Layers allows you to turn layers in the map on and off.

Those items that are checked are turned on; those that are unchecked are turned off.

Choose which layers you would like on or off, and then click Back to Map.

Go To Legend allows you to see more information about the symbology of the map.

Symbology refers to how features are represented – i.e., Parks are green, Major Roads are a thick red line, etc.
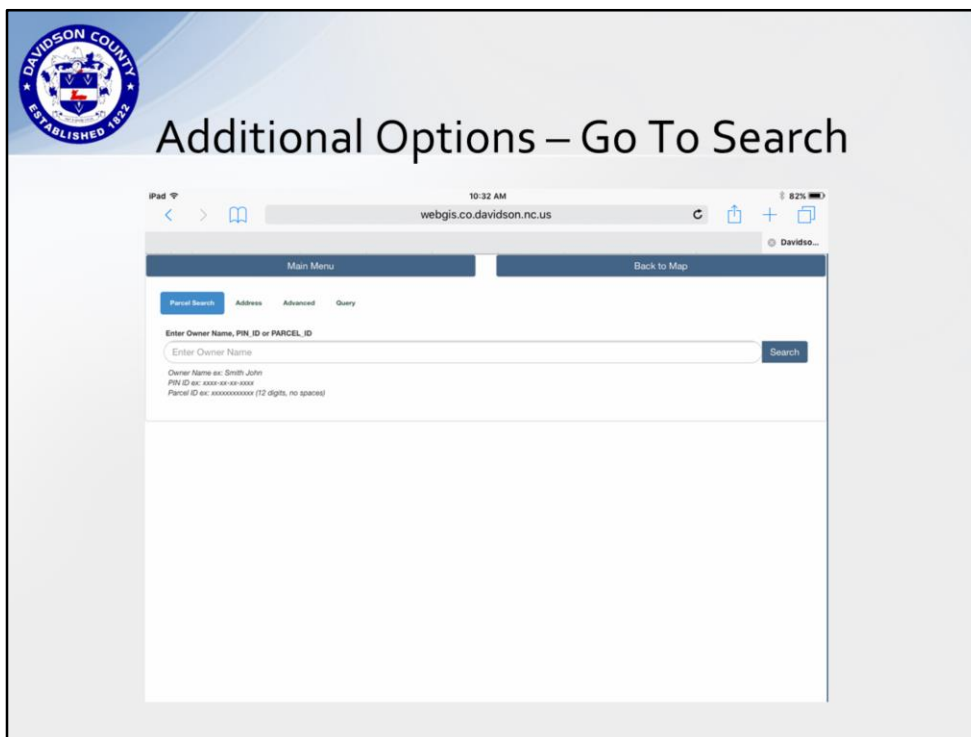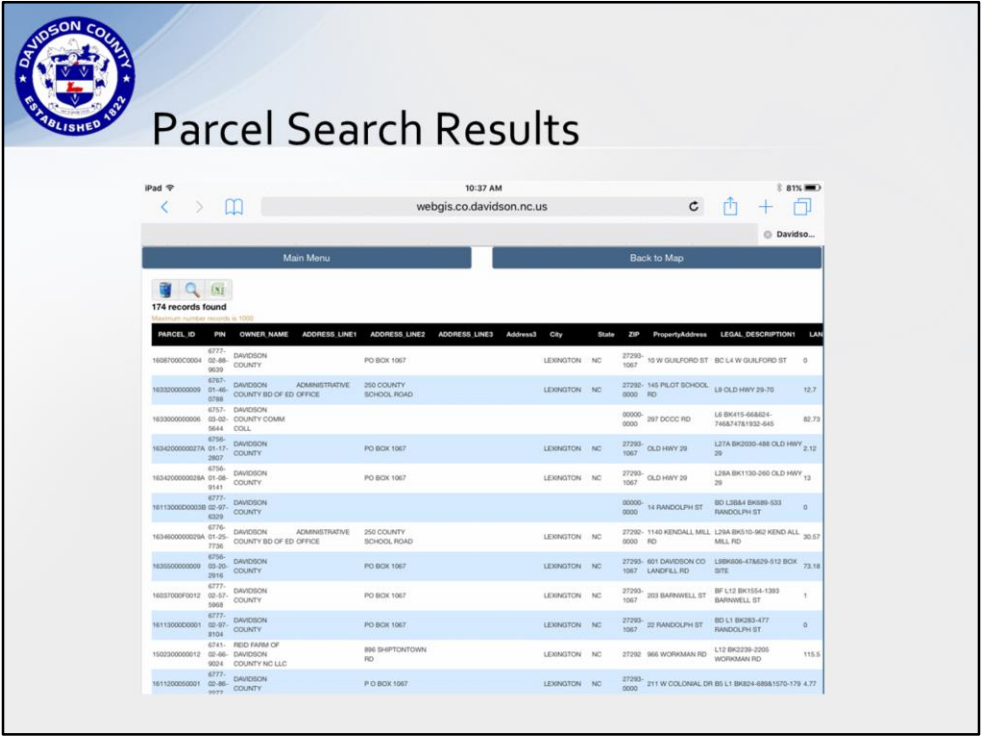
Go To Search allows you to search for information based on the data in the map. There are several different search options available.

The most common search performed on the Davidson County GIS site involves the parcel layer. Thus, this search is the one that is shown by default.

On the Parcel Search page, simply enter one of the following:
 - Owner Name: example Smith John (last name first)
 - Parcel ID: example ############ (12 digits, no spaces)
 - PIN ID: example ####-##-##-####

And then click the Search button.

The example above shows the results from a search for Davidson County as the Owner Name.

Note that the information returned will include records that have Davidson County, Davidson County Board of Education, etc.

If you wish to perform another search, simply choose the Main Menu button at the top of the screen. Otherwise, you can see the selected records by choosing the Back to Map button also at the top of the screen.

The example above shows the results from a search for Davidson County as the Owner Name.

Please take note of a few additional buttons on the Search Results page.

The first button, which looks like a small recycling bin, will clear your selection, and place you back in the map.

The second button, which looks like a magnifying glass, will take you to the map and highlight the records you have selected.

The third button, which looks like the icon for Excel, will export the selected records to a .CSV (comma separated values) file for you to download.
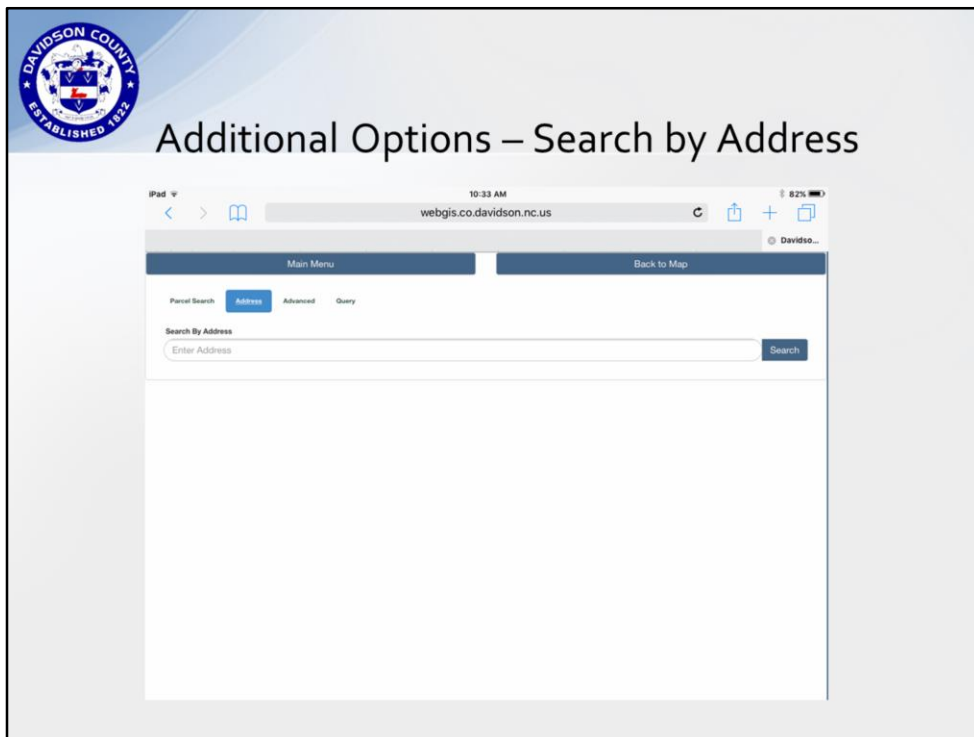
Go To Search allows you to search for information based on the data in the map. There are several different search options available.
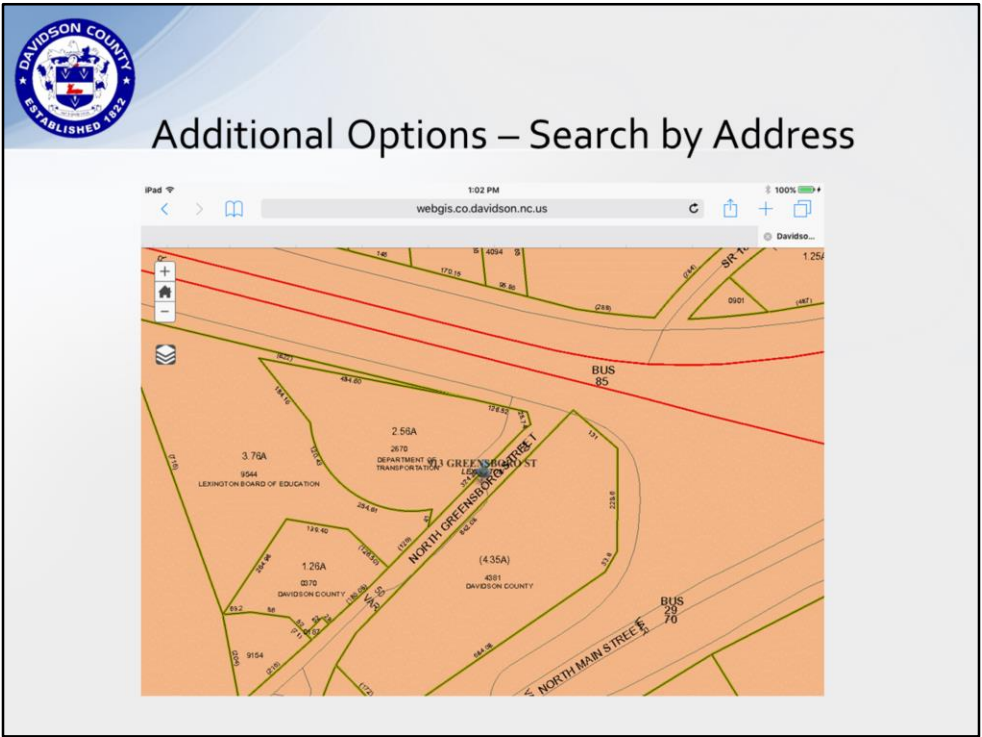
Another common search performed on the Davidson County GIS site involves looking up information by address.
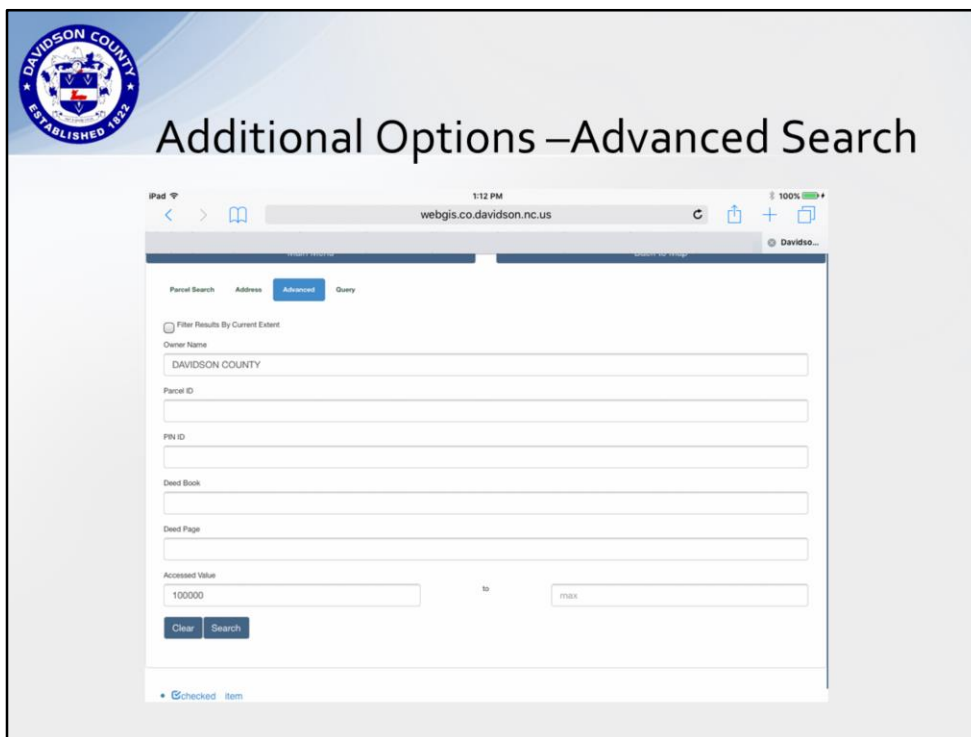
On the Search by Address page, simply enter:
 - An address: example 913 Greensboro St

[Note: As you type, you will be presented with a number of valid values filtered from the data.]

And then click the Search button.

The location you entered will be represented by a blue pushpin labeled with the address entered.

Go To Search allows you to search for information based on the data in the map. There are several different search options available.

In some cases, a search may be more complicated than just a parcel or PIN number, an owner name, or an address. The Advanced Search allows for this more detailed search.

On the Advanced Search page, simply enter:
 - Owner Name
 - Parcel ID
 - PIN ID
 - Deed Book and Deed Page
 - Assessed Value (minimum to maximum value)

[Note: As you type in the owner name field, you will be presented with a number of valid values filtered from the data.]

And then click the Search button.

In the example above, the search will be conducted on parcels with Davidson County in the Owner Name field, worth valued at $100,000 minimum.

The results from the Advanced Search will be presented to you as a listing in a table.

You can choose to click on any of the records in the table to see more information (see next slide).

Should you desire to return to these results, simply choose Go To > Results from the Main Menu page.
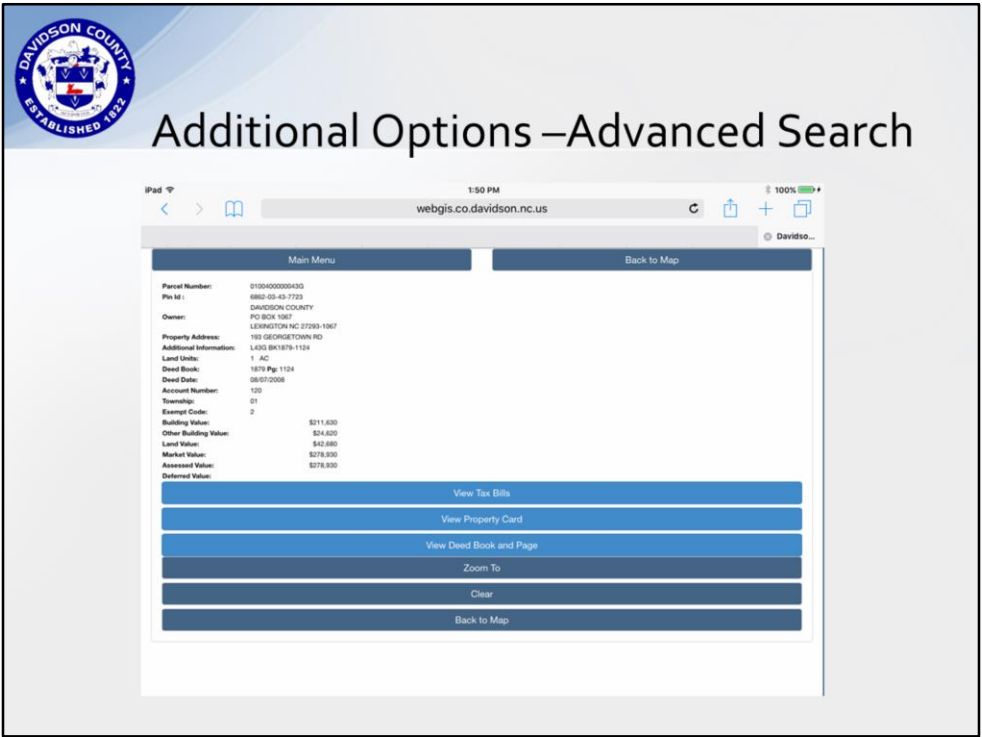
Detailed results for an individual parcel from the Advanced Search table listing are shown above.

If you like, you may view the tax bills, view the property card, view the deed information, or zoom to the map for more information about this particular parcel.

Should you desire to return to these results, simply choose the Main Menu button at the top, and then choose Go To > Results.
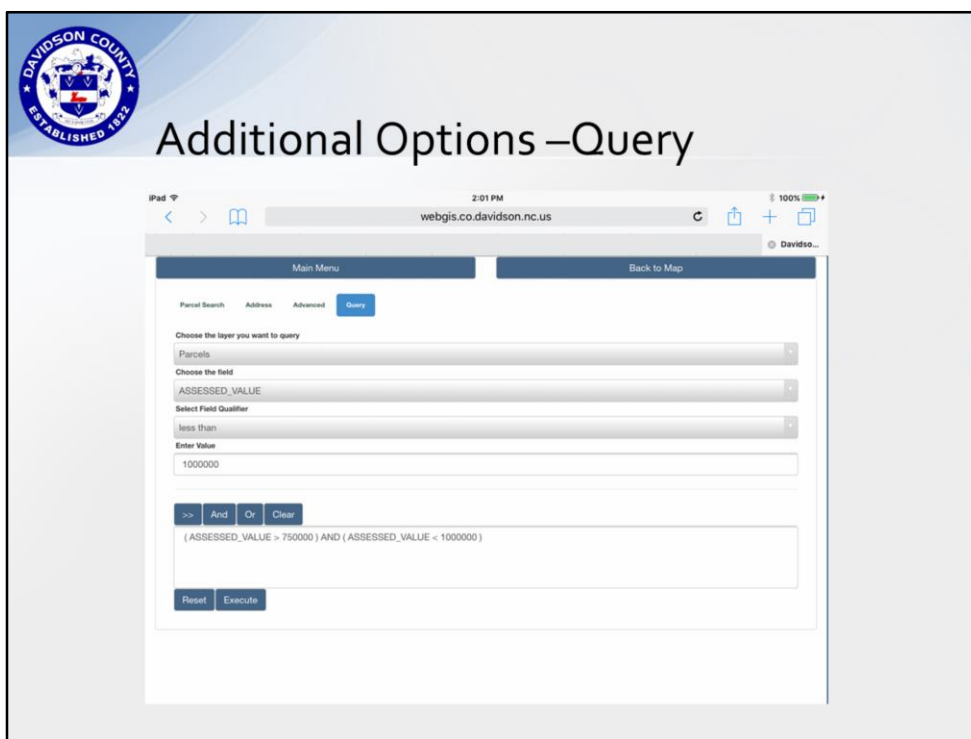
In some cases, a search may be more complicated than just a parcel or PIN number, an owner name, or an address. The Query is another way you can perform a more detailed search.

On the Query page, simply:
 - Choose a data layer from the drop-down list
 - Choose a field from the drop-down list
 - Choose a qualifier from the drop-down list and input a value

Then, click the Execute button. [Note: A maximum of 1,000 records will be returned. This is a limitation of the query.]

In this case, the field ASSESSED_VALUE was chosen from the Parcels layer. The query to be executed is for properties assessed greater than 750,000 and less than 1,000,000. In order to build this query, first choose the Parcels layer, the ASSESSED_VALUE field, and greater than as the qualifier with a value of 750000 and click on the >> (two arrows) to add that to the box. Then, choose "AND". Change the qualifier to less than with a value of 1000000, and click on the >> (two arrows) again. When your query box looks like that shown above, choose Execute.

The results will be displayed in tabular format as they were with the Advanced Search.
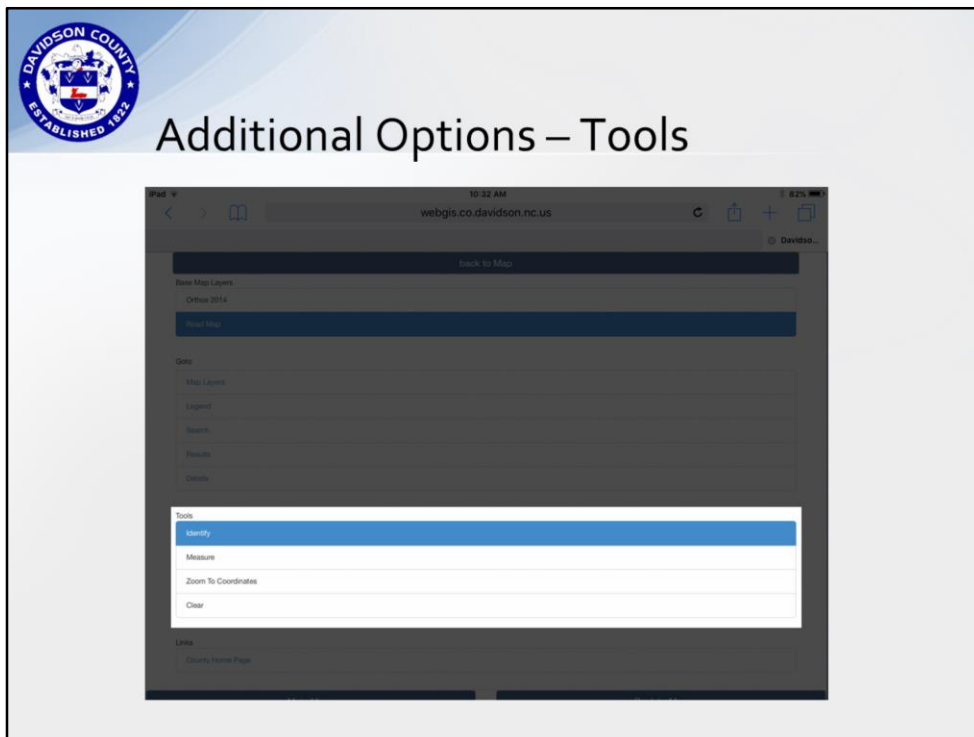
The next section of the Additional Options page has a variety of choices for interacting with the map.

Each of them is provided below, with a brief description.
 - Identify: Interact with the layers in the map to find out more about them. Click on a location in the map, and information will be returned about the parcel, street, agricultural district, etc. that occurs at that location.
 - Measure:
 - Zoom to Coordinate: Zoom to a location on the map according to the coordinates you specify.
 - Clear: Clear any selections that you have made.

Each will be explained in further detail on subsequent pages.
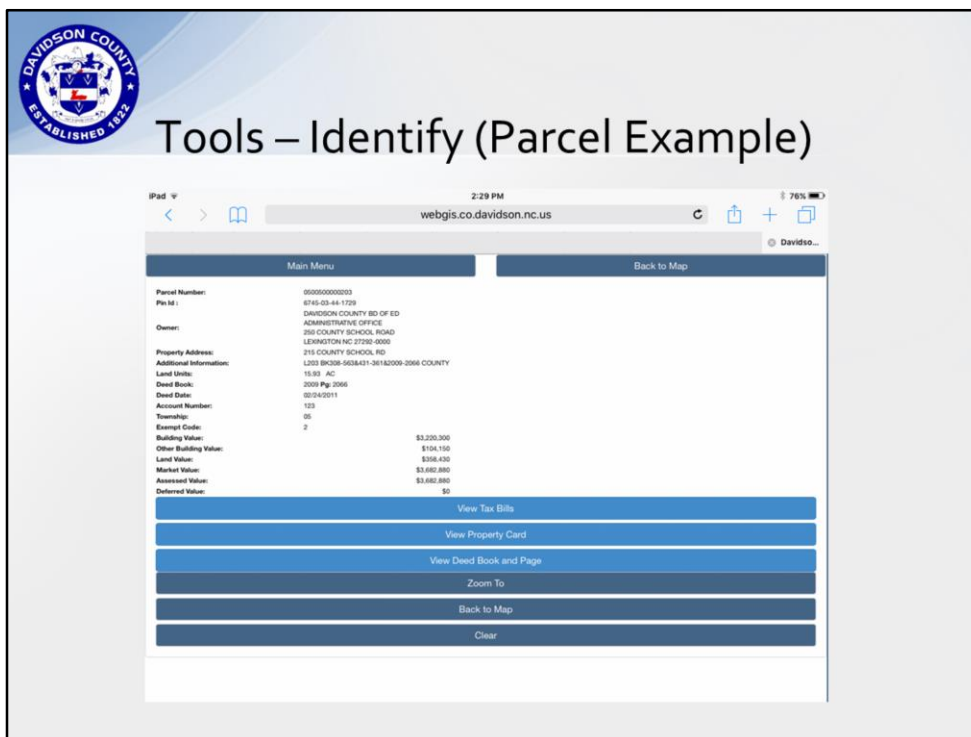
Identify allows a user of the Mobile GIS App the ability to interact with the layers in the map to find out more about them.
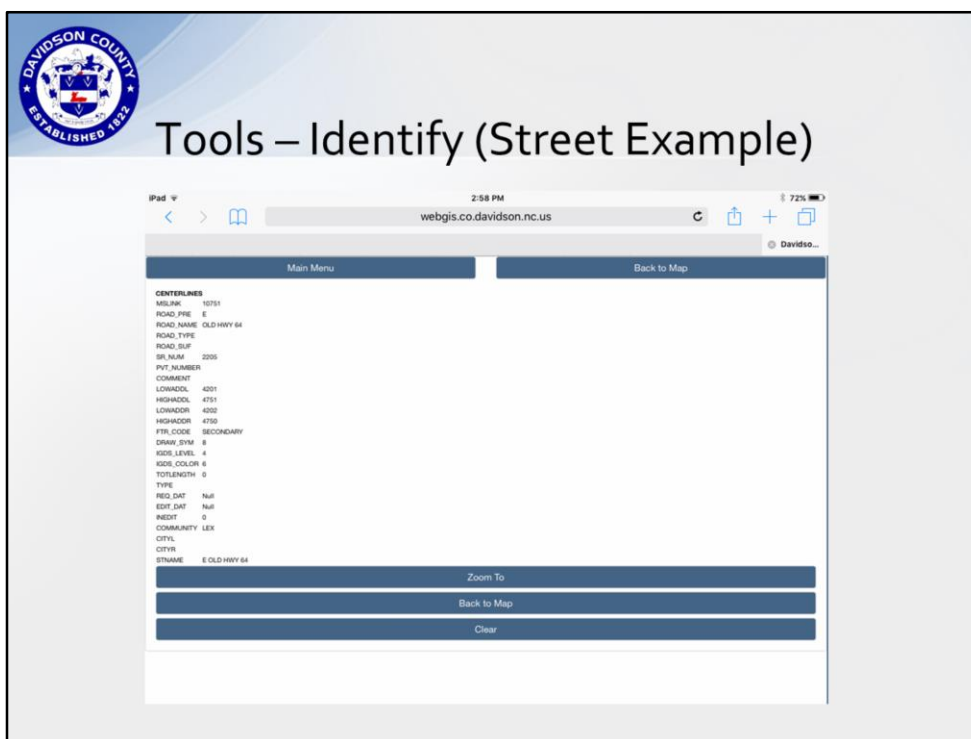
By default, Identify is enabled. So, all you have to do is click on a location in the map, and information will be returned about the parcel, street, agricultural district, etc. that occurs at that location.

In the example above, a parcel was clicked. Ownership, location, and value information is displayed. From this screen, additional options are available:

 - View Tax Bills: Open the Tax Office's webpage and return the listing of tax bills.
 - View Property Card: Open the Tax Assessor's webpage and return the property card, which includes more details about the property selected.
 - View Deed Book and Page: Open the Register of Deeds webpage and search for more information about the parcel based on the deed book and page.
[Note: The above options are only available if a parcel is clicked.]

 - Zoom To: Zoom to the currently selected feature.
 - Back to Map: Return to the map.
 - Clear: Clear the currently selected feature.

Identify allows a user of the Mobile GIS App the ability to interact with the layers in the map to find out more about them.

By default, Identify is enabled. So, all you have to do is click on a location in the map, and information will be returned about the parcel, street, agricultural district, etc. that occurs at that location.

In the example above, a street was clicked. Name, range, type of street, and jurisdiction information is displayed. From this screen, additional options are available:

 - Zoom To: Zoom to the currently selected feature.
 - Back to Map: Return to the map.
 - Clear: Clear the currently selected feature.
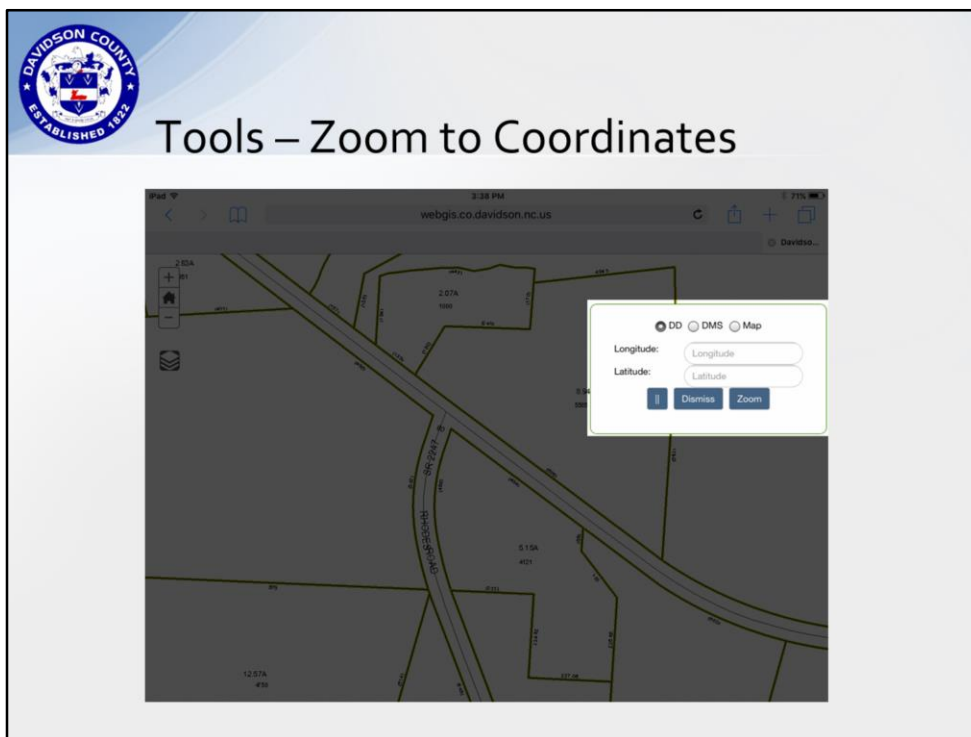
Upon selecting Zoom to Coordinates, you will be placed back into the map, and a small window will prompt for coordinates to be entered in either decimal degrees, degrees minutes and seconds, or map coordinates (x,y in North American Datum 1983 with units of US feet).

An example entry for the Davidson County Governmental Center at 913 Greensboro Street Lexington, NC 27292 is:

Decimal Degrees
Longitude: -80.2448822
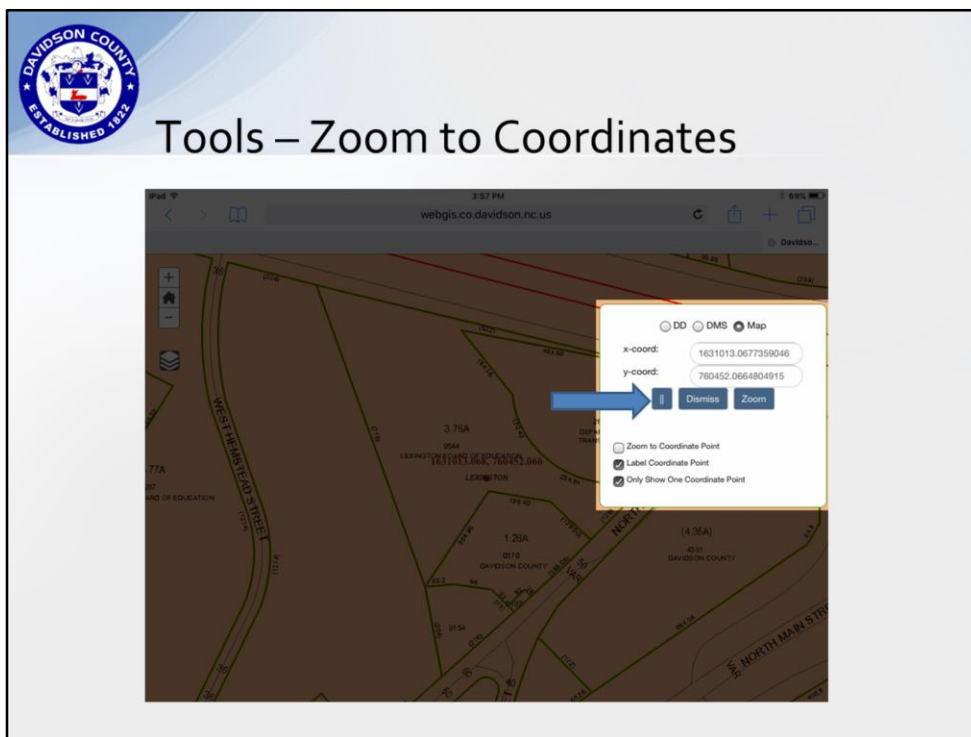Latitude: 35.8330893

Degrees Minutes Seconds
Longitude: 80° 14'41"
Latitude: 35° 49'59"

Map
Longitude: 1,631,013.0677359046
Latitude: 760,452.0664804915

Upon selecting Zoom to Coordinates, you will be placed back into the map, and a small window will prompt for coordinates to be entered in either decimal degrees, degrees minutes and seconds, or map coordinates (x,y in North American Datum 1983 with units of US feet).
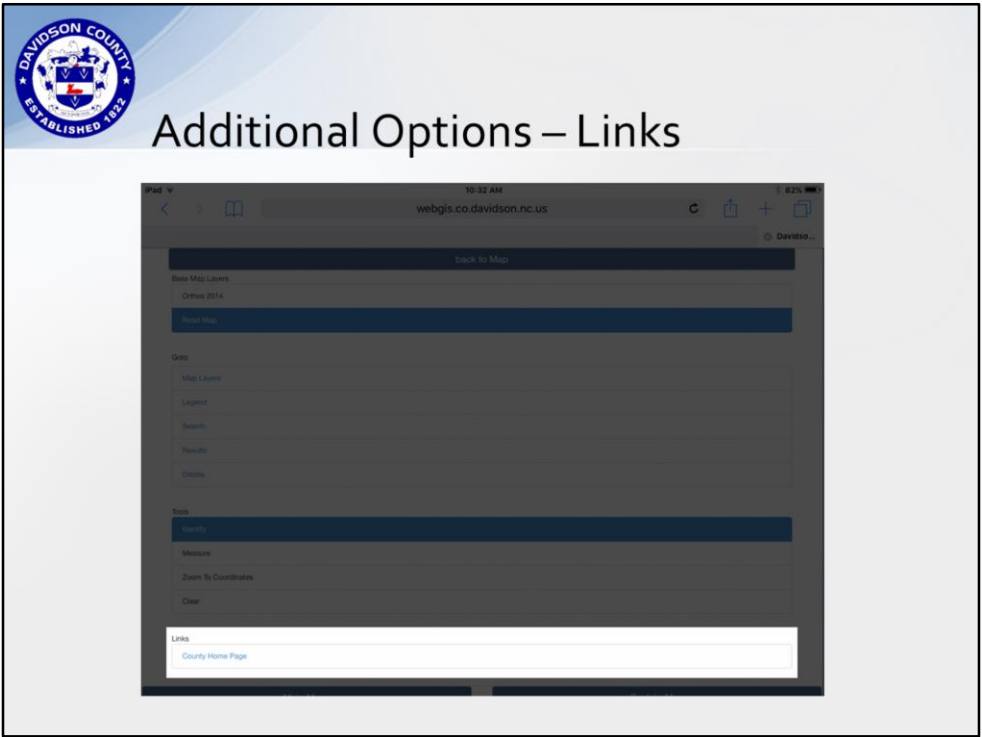
Additional options are available for this tool if you click the small button to the far left (see arrow above).

Zoom to Coordinate Point
Label Coordinate Point (on by default)
Only Show One Coordinate Point (on by default)

Note: Dismiss will dismiss the Zoom to Coordinates window.
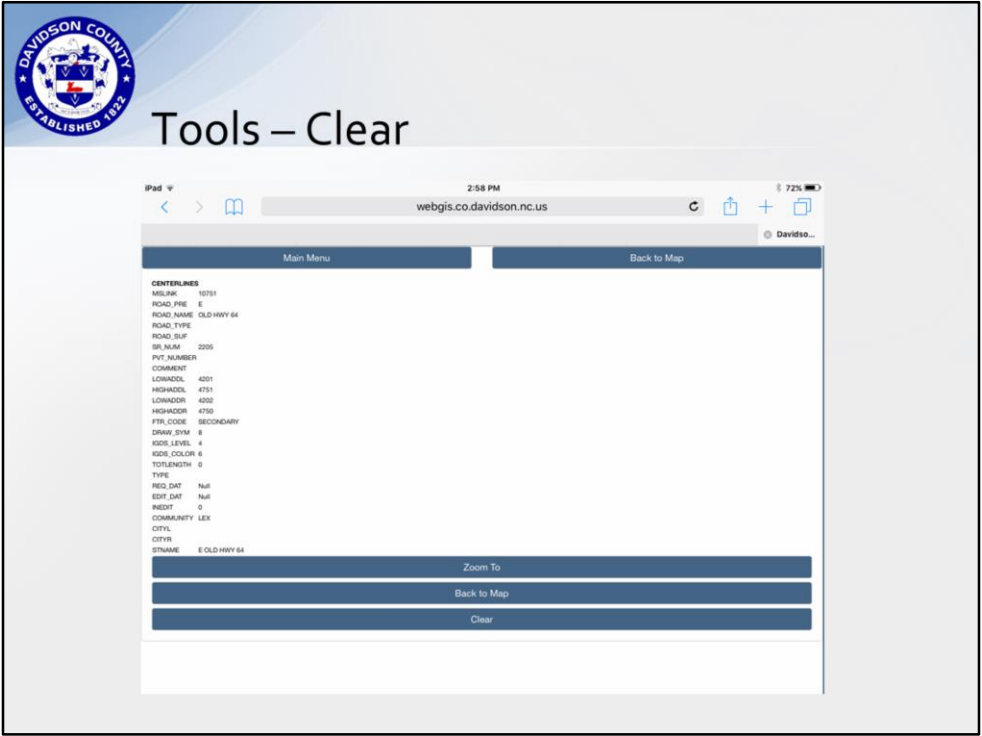
As you might imagine, the Clear button clears the selected records.

The last section of the Additional Options page includes links to other information.

At this time, there is only one link – to the Davidson County Home page.

Thank You

- Thank you for your interest in the Davidson County Mobile GIS App.

- If you have questions about this training document, please contact:
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