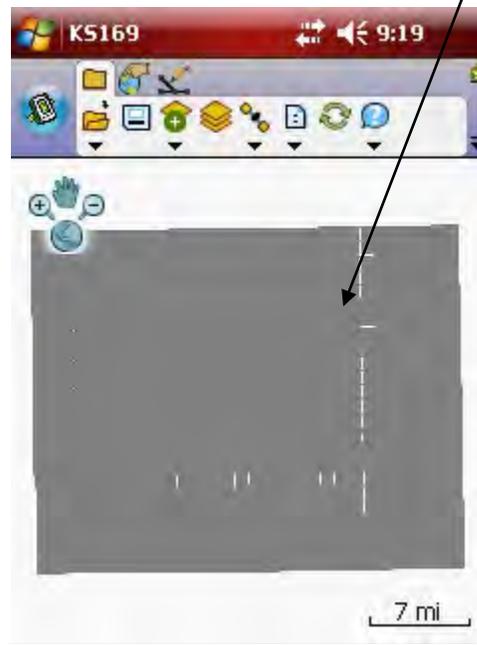


June 28, 2011

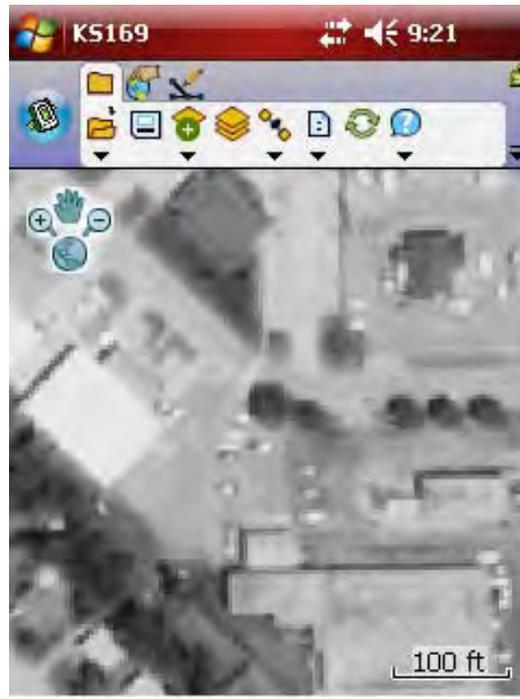
1. Start an ArcPad project such as KS169.apm (your screen should look like the example below).



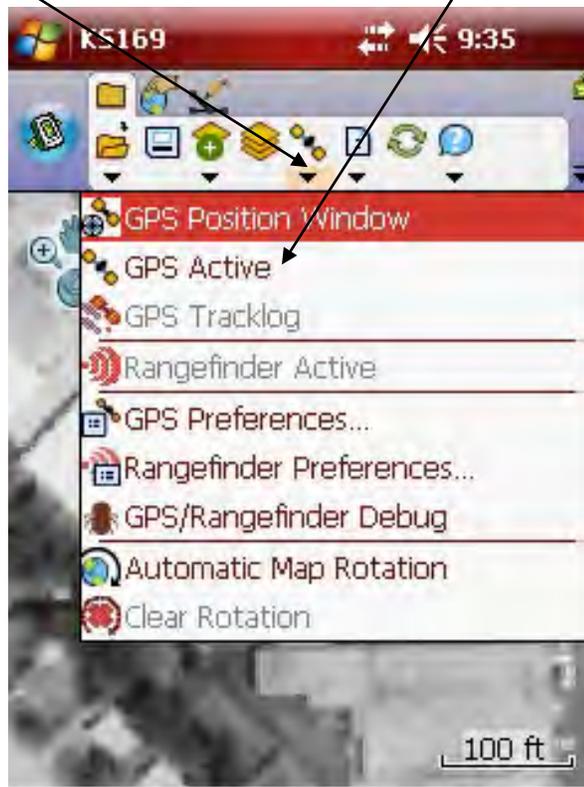
2. Use the **Zoom** tool to zoom into an area where you want to GPS a line.



3. Zoomed-in area example:



4. Click the drop-down arrow on the **Satellite** icon and click **GPS Active** to activate GPS receiver.

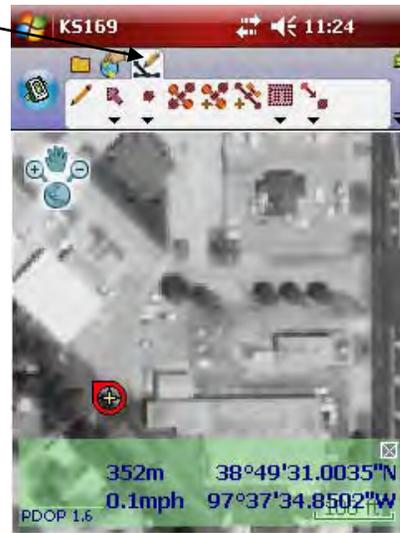


5. Your screen should now show a red circle with a yellow cross-hair inside it. This is the GPS locator and it represents your location (It might take a few minutes for the GPS unit to start receiving satellite signals).



The green box at the bottom of the screen is the GPS status bar and it will display your latitude, longitude, altitude in meters (multiply the meters by 3.2808 to get feet), speed over ground (if you are moving), and will alternate displaying the number of satellites it is using and the Positional Dilution of Precision (PDOP).

6. Click the **Edit** icon to switch to edit mode.



7. Click the **Pencil** icon and then **GPS_line** to set the receiver to GPS a line.

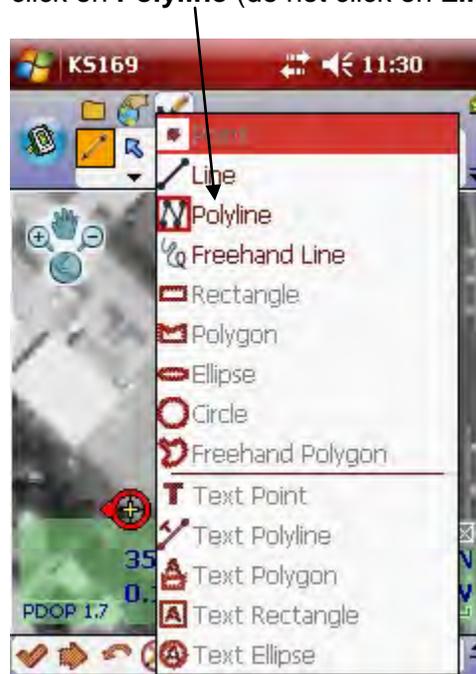


8. Click the drop-down arrow on the **Capture** icon.



Take note that the pencil icon is highlighted. This indicates the GPS is in edit mode and ready to capture GPS signals. If it is not highlighted you will not be able to GPS a line.

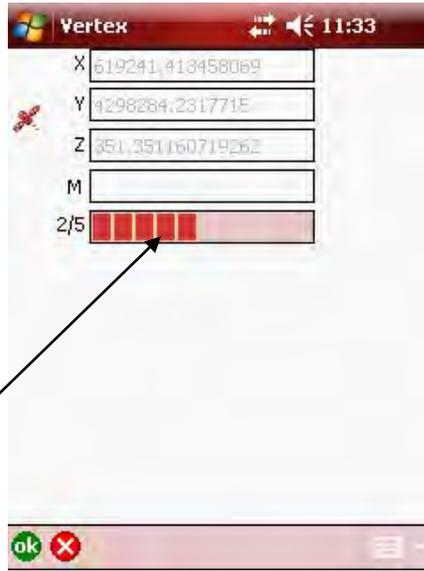
9. Since we want to GPS a line, click on **Polyline** (do not click on **Line**).



10. From this point, there are two ways to GPS a line. One is to capture points along the line one at a time. Click the **Add a Single Vertex** icon.

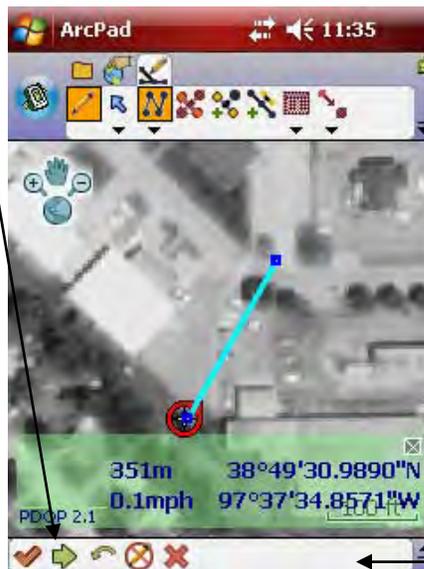


This will capture our beginning point of the line and bring up the following screen.



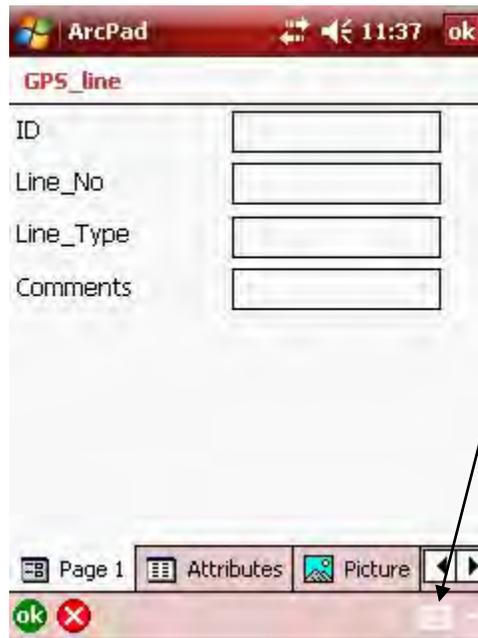
Take note of the bottom text box. This box is displaying the number of GPS signals the GPS unit is collecting and it must show "5/5" before you move to your next point. It will automatically close when it has captured five signals.

11. After collecting the beginning point, move to the second point along the line you want to capture and click on the **Add a Single Vertex** icon to capture your second point. Keep repeating this process until you come to your last point along the line. After you have captured your last point, click on the **Proceed** button on the **Command Toolbar** to save your line.

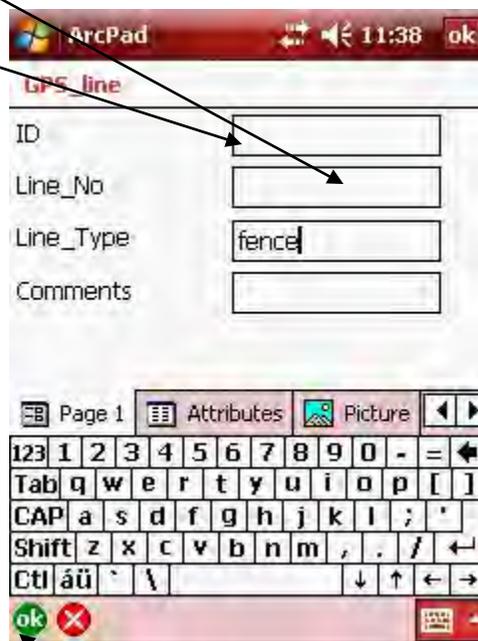


Command Toolbar

12. This will bring up the **Attribute** window. This is the window where you can put in descriptions of the line you just collected. In order to input comments, click on the **Keyboard** icon.

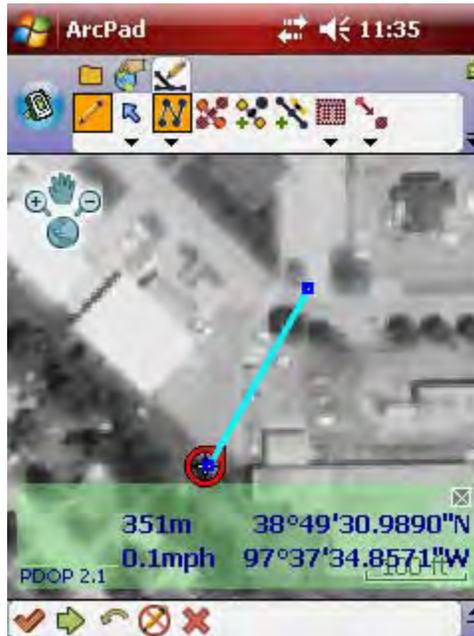


13. This will bring up a tiny keyboard that allows you to add comments within the text boxes. The **ID** field and the **Line_No** fields only accept numbers.



Once you are finished, click the **OK** button.

14. The line you have collected will now display on your screen and should be highlighted in blue. (This is an example of a simple straight line. Yours will probably be different.)

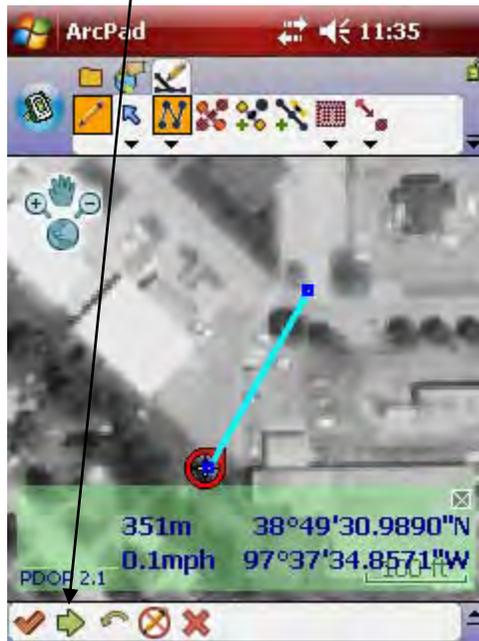


15. The other option in capturing a line is to click on the **Add Vertices Continuously** icon.

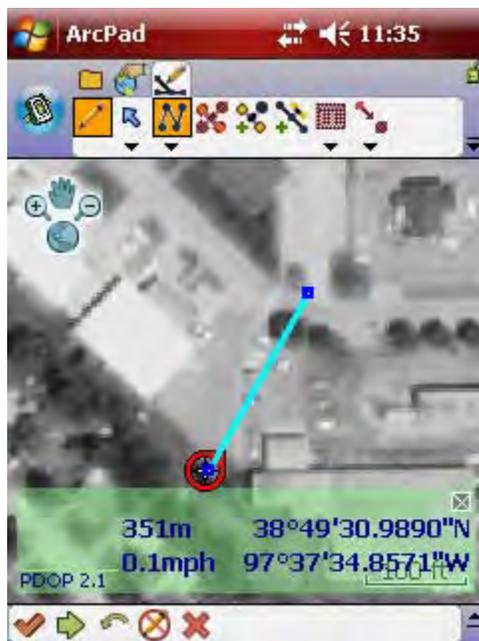


Once you have clicked on the icon, begin walking your line because your GPS unit will continuously collect a point every one meter.

Once you have finished, click on the **Proceed** button on the **Command Toolbar** to save your line.



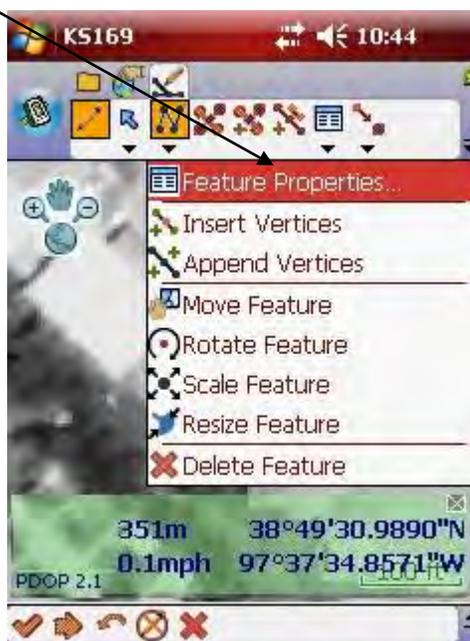
16. This will bring up the **Attribute** window just like it did in capturing one point at a time. Follow those same steps in saving your line. After you have saved your attributes, you should now have some type of GPS line on your screen as in the example below.



17. Now that we have captured a line, we can look at the length of that line. The line should still be selected. Click on the drop-down arrow of the **Show Feature Properties** icon.



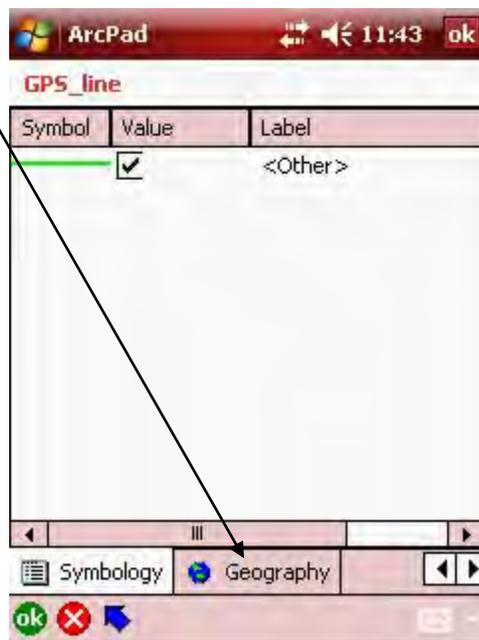
18. Next, click on **Feature Properties**.



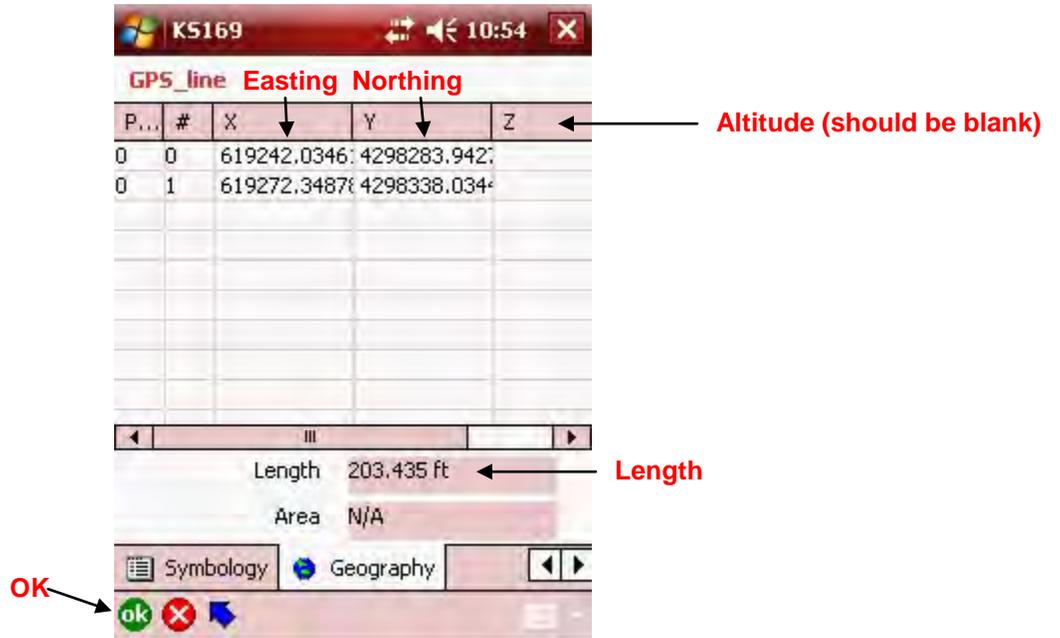
19. This will bring up the **Feature Properties** window. Click on the **right arrow** unit you get to the **Geography** tab.



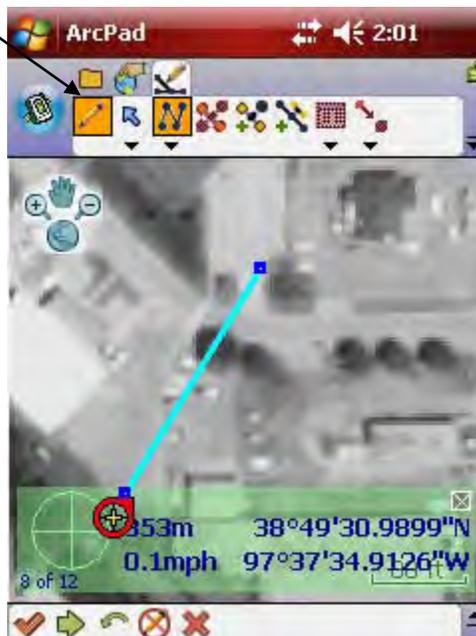
20. Click on the **Geography** tab.



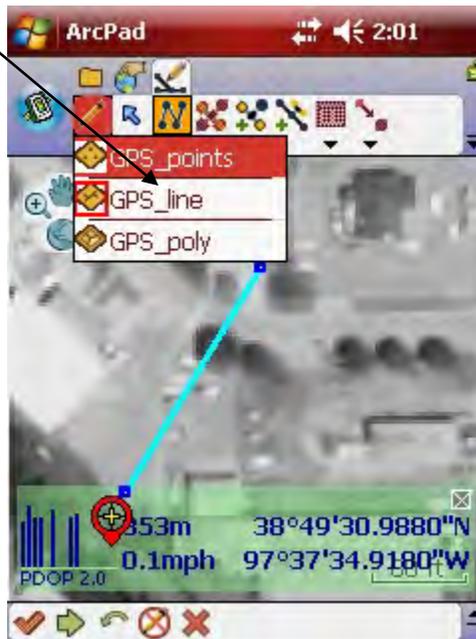
21. This will bring up a window that will display the feature properties of the GPS line. This window shows the northing and easting of each GPS point that you captured and also the total length of the line. Once you are finished looking at the properties, click on the **OK** button.



22. Now you can go on to GPS another line or you can exit out of Edit mode. To exit out of Edit mode, click on the **Pencil** icon.



23. Then click on **GPS_line** to exit out of line edit mode.



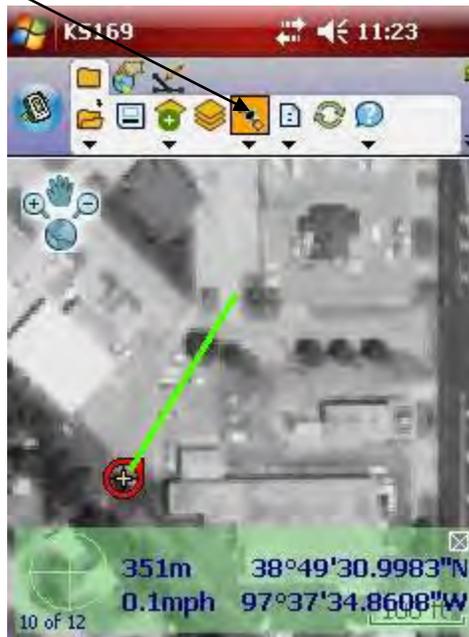
24. You should now be out of edit mode but the GPS receiver is active (as shown in the screen below). If you are finished GPSing lines, inactivate the receiver and exit out of ArcPad. To inactivate the receiver, click on the **Folders** icon.

Pencil icon

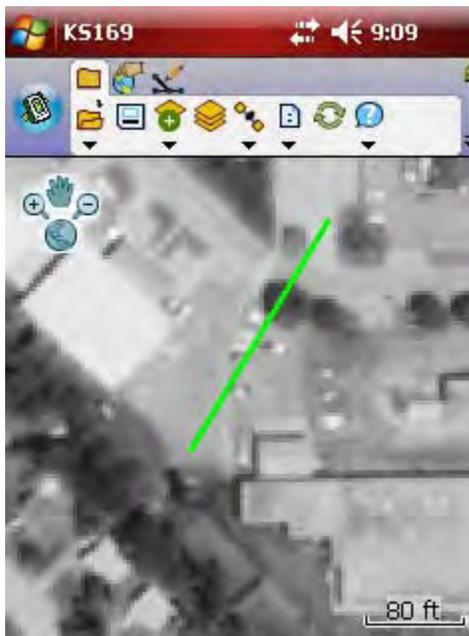


Take note of the **Pencil** icon. It is no longer highlighted so that means you are out of edit mode.

25. Then click on the **Satellite** icon.



26. The receiver is now inactive and the GPS locator and GPS status bar are no longer on the screen as shown in the example below.



27. You can now exit out of ArcPad.

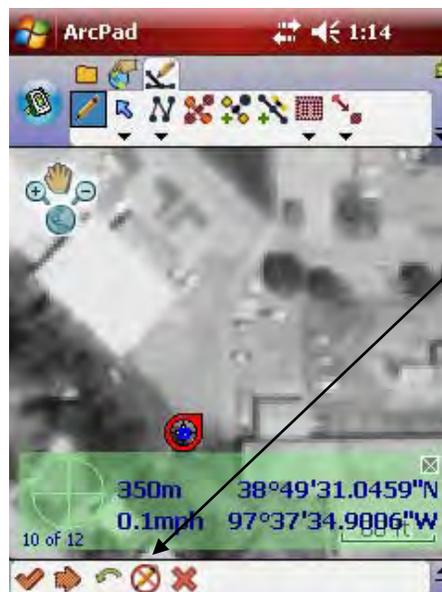
Comments Section

One thing to be aware of while GPSing a line is do not touch the screen with the stylus in the highlighted area below because it will add a point where you touched.



If you do touch the screen, click on the **Undo** button and it will remove the point or click on the **Cancel Feature Edits** button to completely get rid of the line.

One way to avoid adding points with the stylus is to inactivate it. To do this, click on the **Toggle Pen for Capture** button.



This will highlight the **Toggle Pen for Capture** button and the stylus will be inactive in the highlighted area described above.

