IMS EvidenceRecorder

Evidence Recorder Quick Start Guide:

This Workflow Guide outlines the recommended procedure when returning to a scene continuing to measure with either a total station or a network GPS.

**Important Preparation Steps:**

Before you begin, you must have:

1. A total station or a GPS set that allows you to continue working.
2. Understanding the basics such as project setup, instrument connection and point measurement.
3. Minimum of three existing control points that has be establish previously and have been stored in the EVR project.

| **If You are using a total station:** | |
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| Locate the three control points on the ground. |  |

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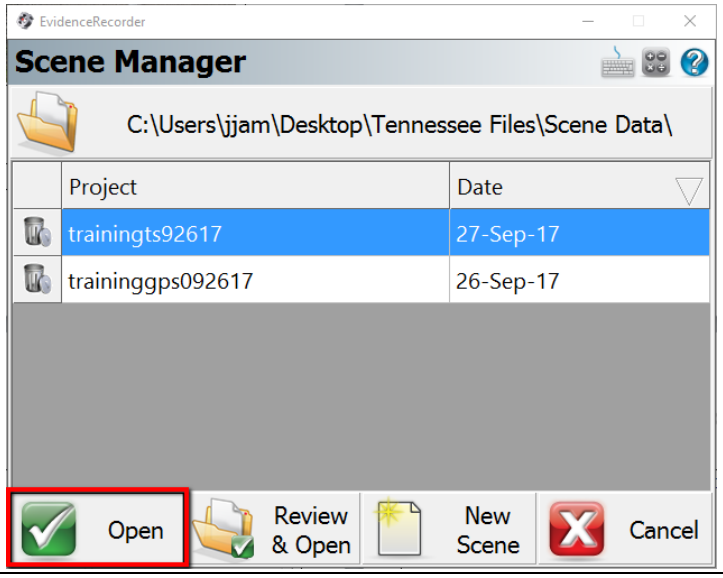
| Set up the instrument at the location where you can see all two control points as well as the entire scene you're about to measure. |  |
| Create a new scene or open the existing scene.<br><br>If you're creating a new scene, enter the three coordinates under Mapping Tools\|Store Points. |  |

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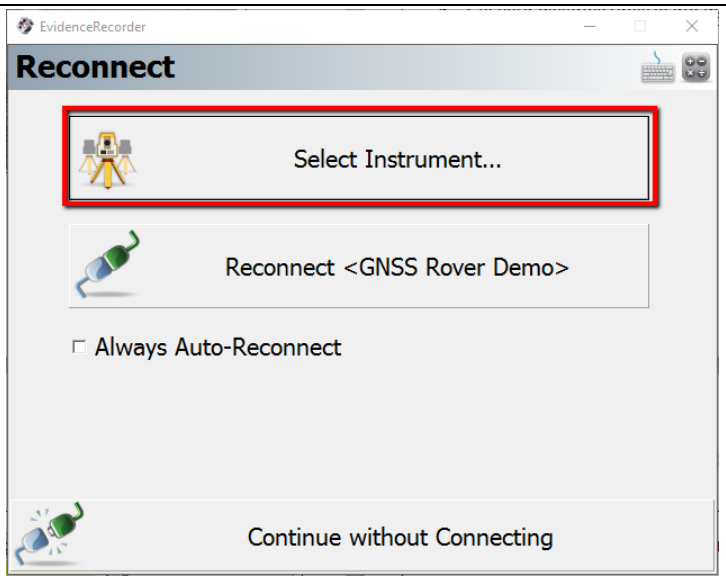
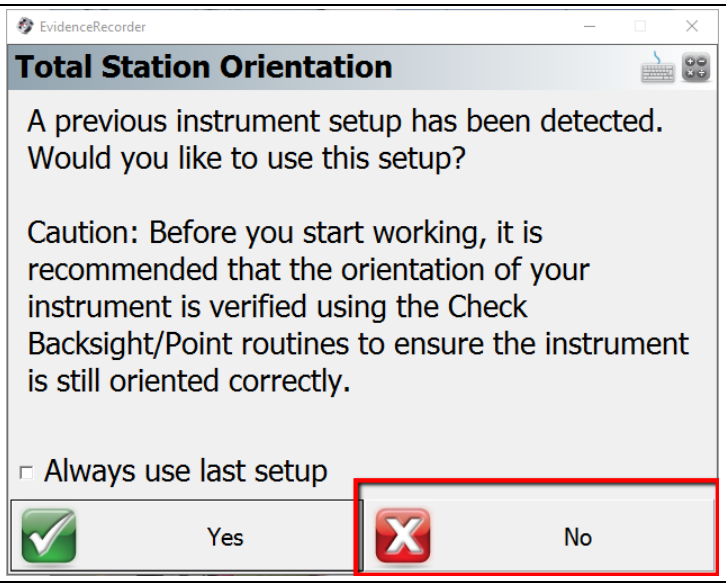
| Complete instrument connection. |  |
| If you see this prompt, select “No” |  |

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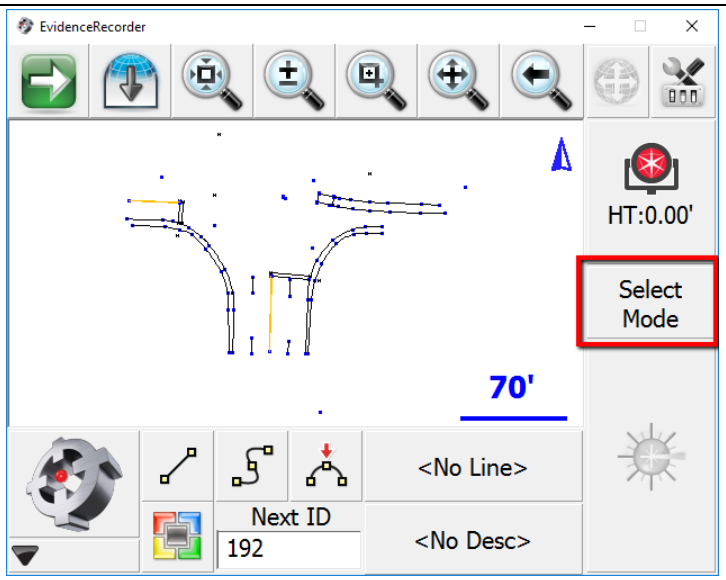
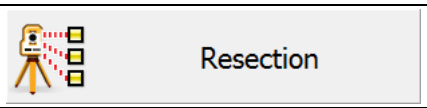
| Pick ‘Select Mode’, Resection. |  |
| Pick ‘Resection’. |  |
| Measure the Instrument Height. |  |
| Measure the Prism Height. |  |

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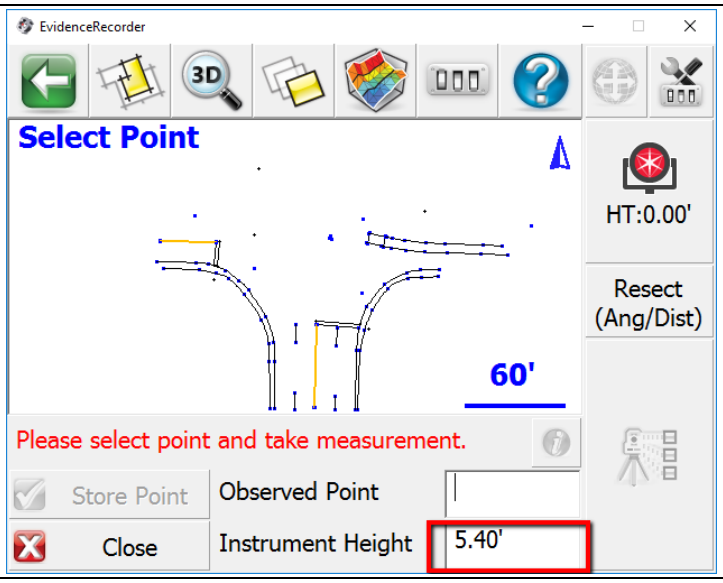
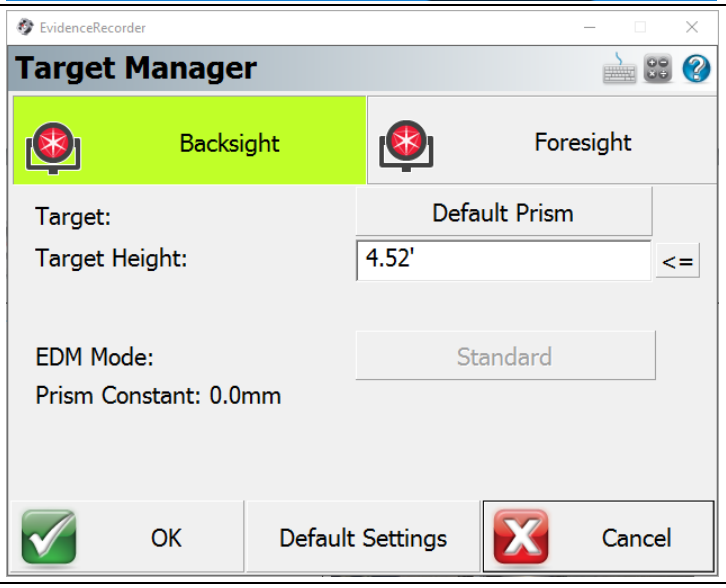
| Enter the Instrument Height. |  |
| Pick on the target manager and enter the Prism Height for both foresight and backsight. |  |

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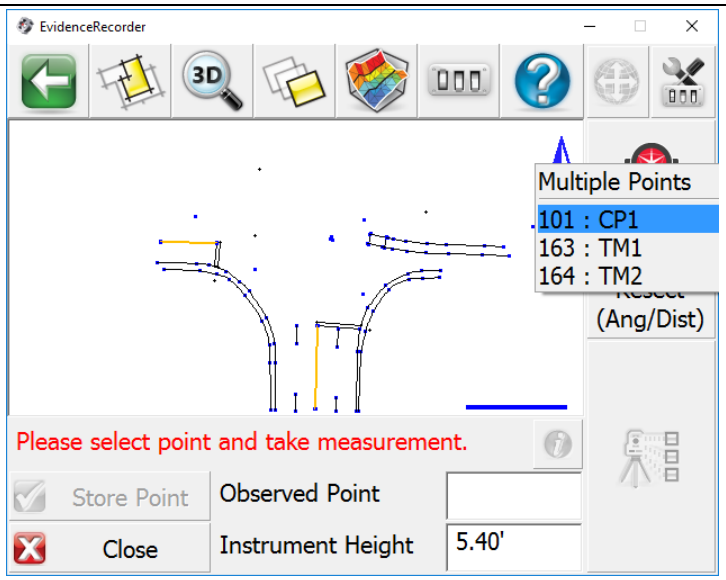
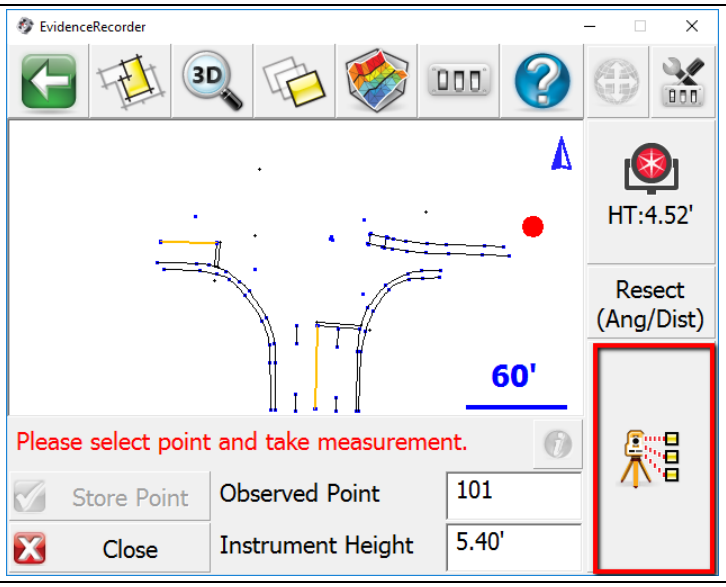
| Select the first of the three control points by pick-select from the map or typing the ID in the point ID column. |  |
| Aim the instrument to the control point then press measure. |  |

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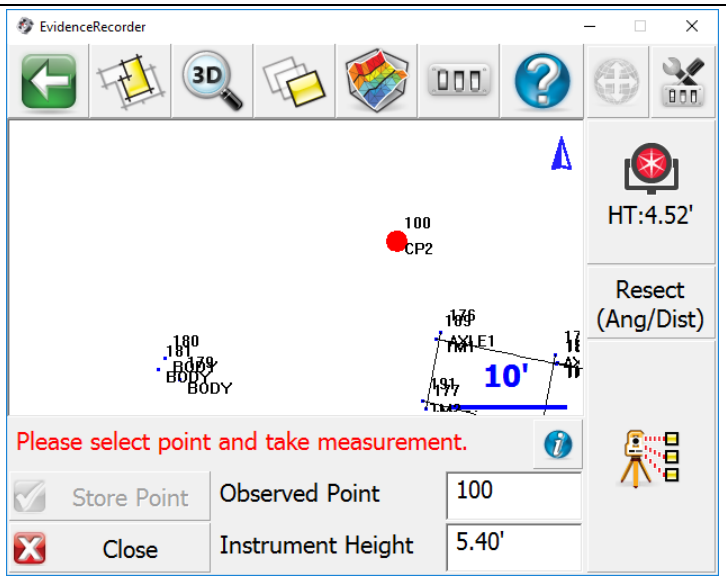
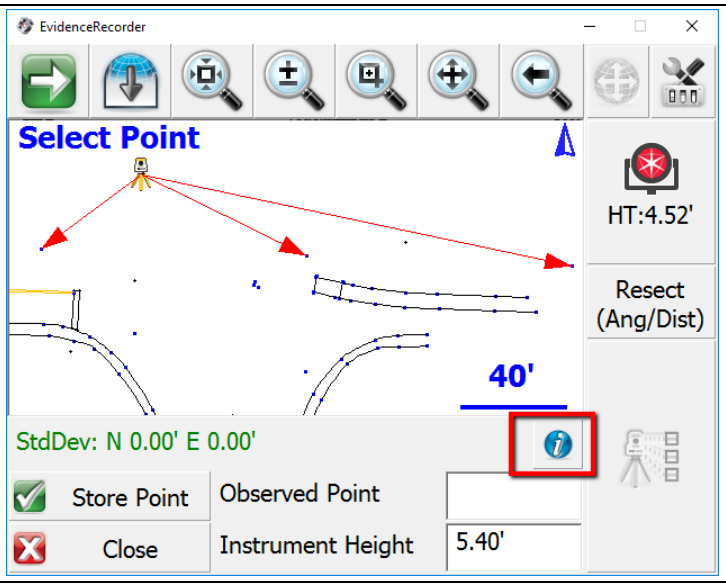
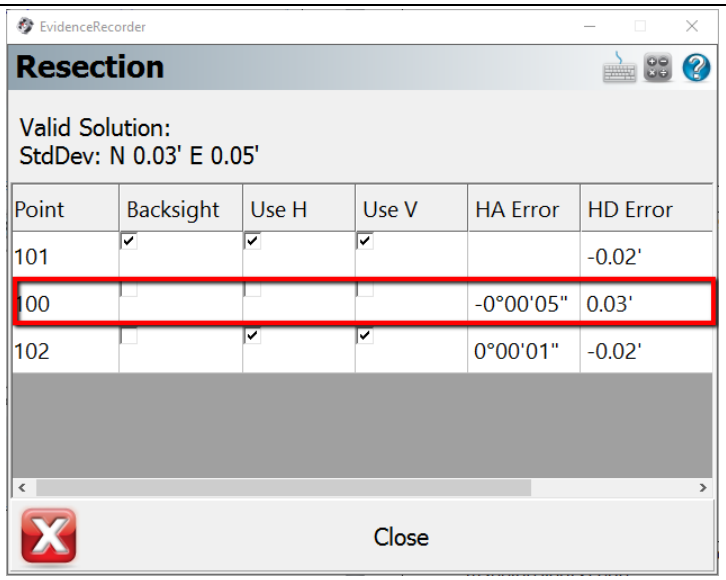
| Repeat the steps to measure the other control point.<br><br>(Note: You are not limited to three control points. You may measure additional points if you wish.) |  |
| Once finished, select the 'information' button to see the resection result. |  |

If you have more than two measurements, you can uncheck the boxes to rule out the 'bad' measurement.

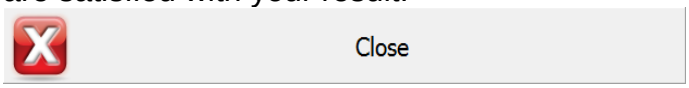
*In this case, the difference between the actual and computed coordinates at point 100 is .03 if we uncheck its "Use H" and "Use V" options. An HD error of .1 foot or greater would indicate you should re-measure or check your control points to ensure you are identifying them correctly.*

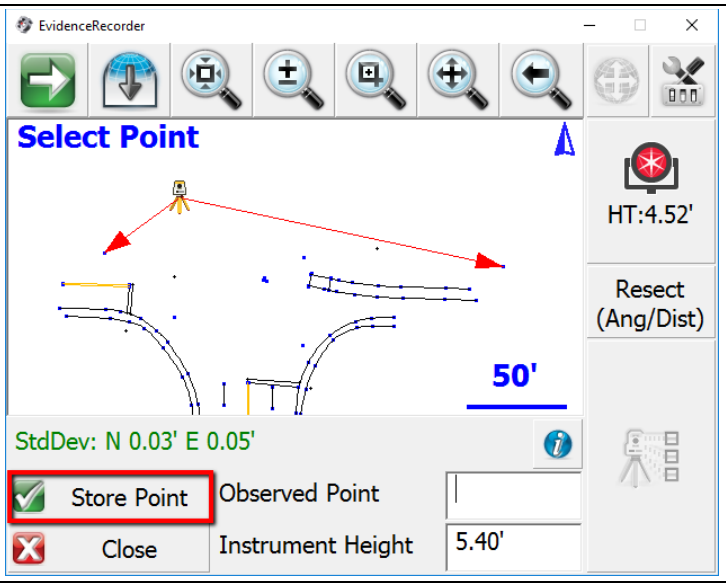
*Close this dialog and then the resection dialog if you wish to re-measure.*

NOTE: The checkmark in the "Backsight" column defines the point that you will turn to when you perform a "Check Backsight."




Close this dialogue and pick 'store point' if you are satisfied with your result.



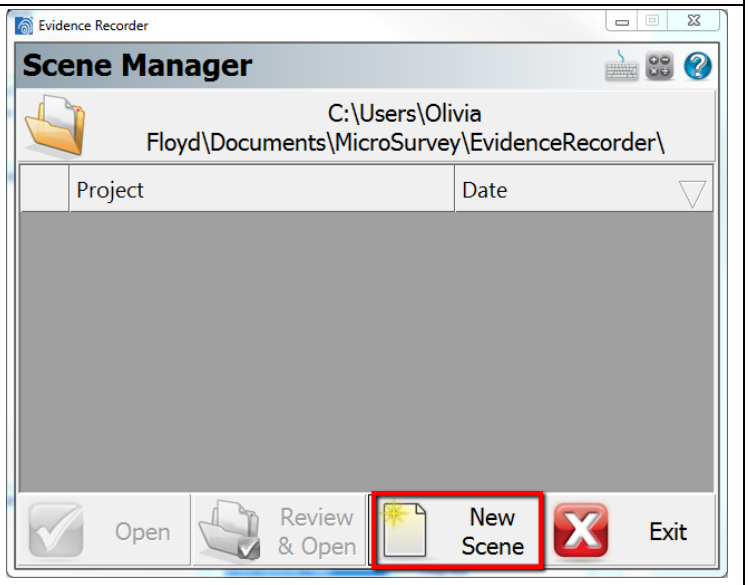



Now you can take sideshots and continue to map the scene.

**If you're using a GPS**

Create a new scene or open the existing scene.

If you're creating a new scene, enter the two coordinates in Mapping Tools|Store Points.




Setup GPS connection.

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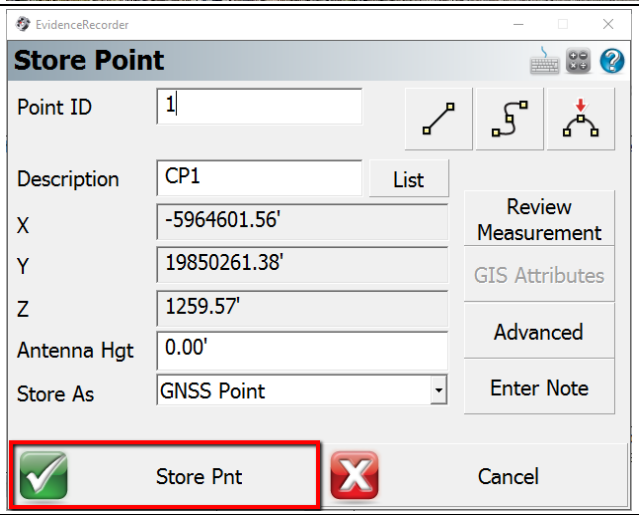
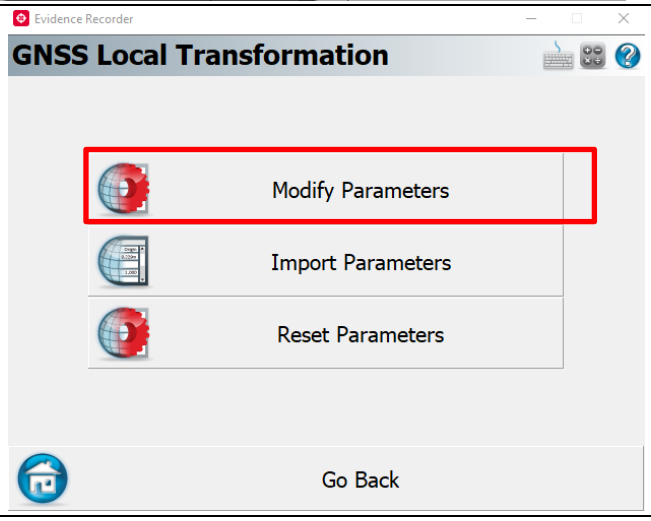
| Locate the three control points on the ground. |  |
| Measure and store the three control points with GPS using different point numbers other than what you've stored. |  |
| Go to Mapping Tools\|GNSS Local Transformation\|Modify Parameters<br><br>(If you don't see these options, go to Settings\|Options\|GNSS\|check Allow Advanced Settings) |  |

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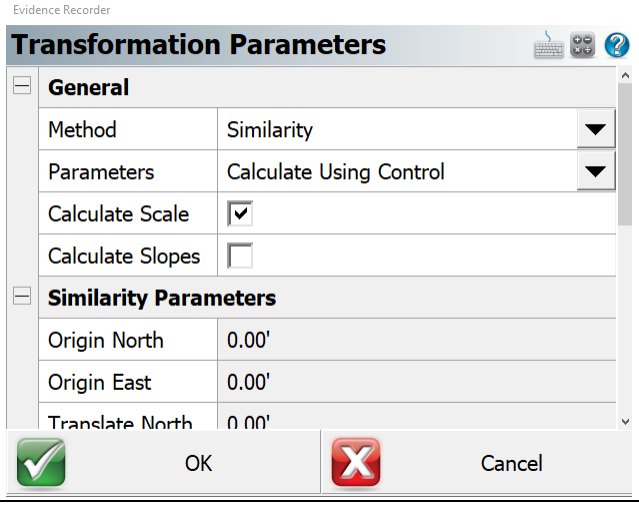
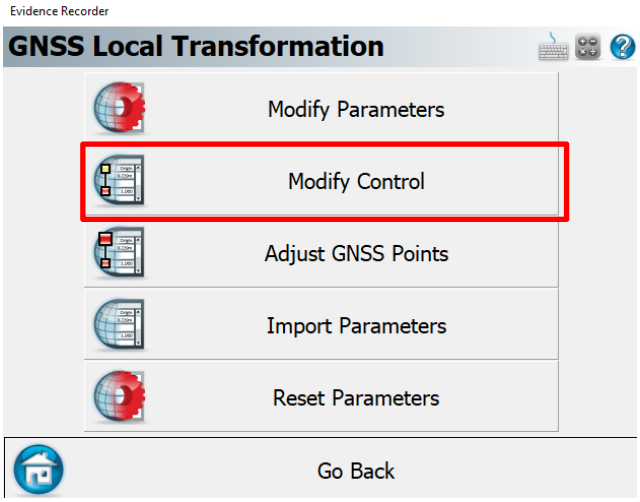
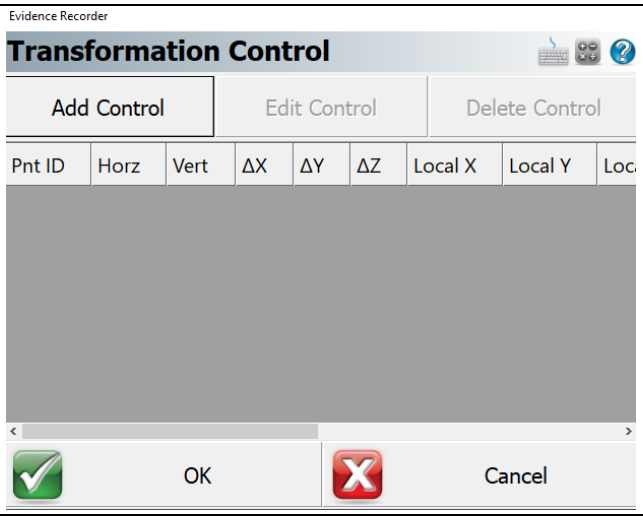
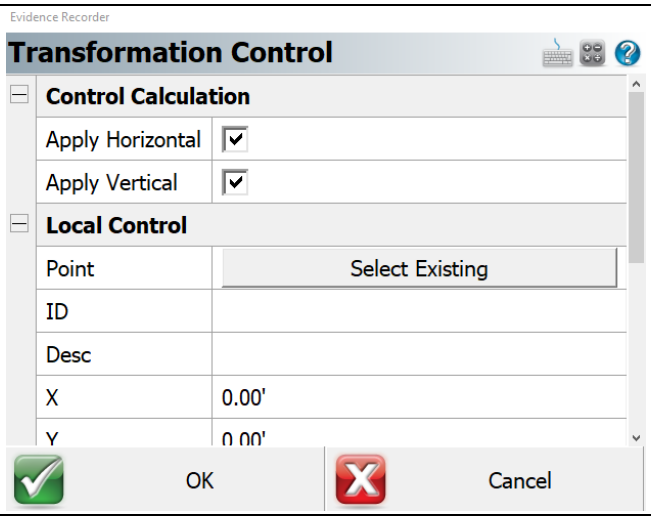
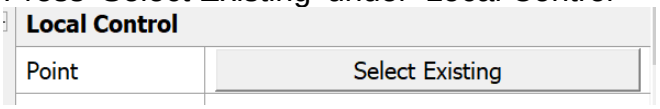
| -Method: SimiarityA<br>- Parameters: Calculate using Control<br>- Calculate scale (yes)<br>- Calculate Slopes(no)<br><br>Press OK |  |
| Select 'Modify Control' |  |
| Select 'Add Control' |  |

- Apply Horizontal (yes)
- Apply Vertical (yes)

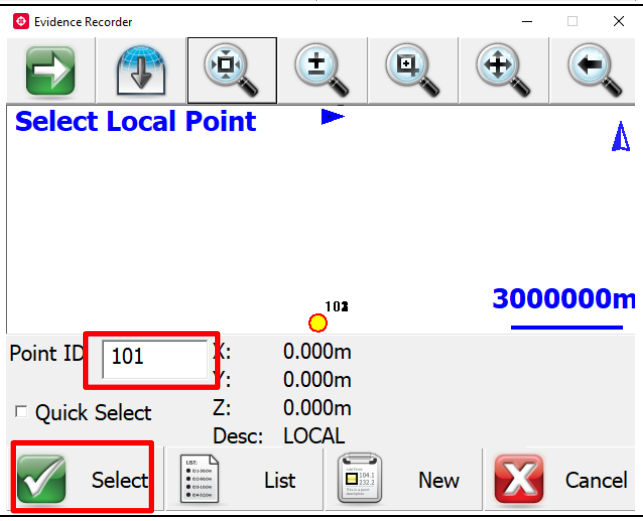



Press 'Select Existing' under 'Local Control'

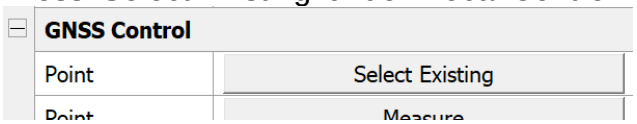



Select or key in one control point ID that you've entered.

Press Select.

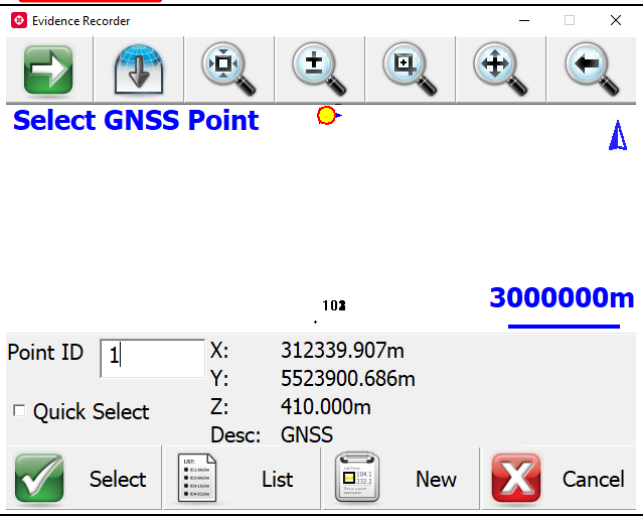



Press 'Select Existing' under 'Local Control'




select or key in the control points ID that you've measured with the GPS.

Press OK.



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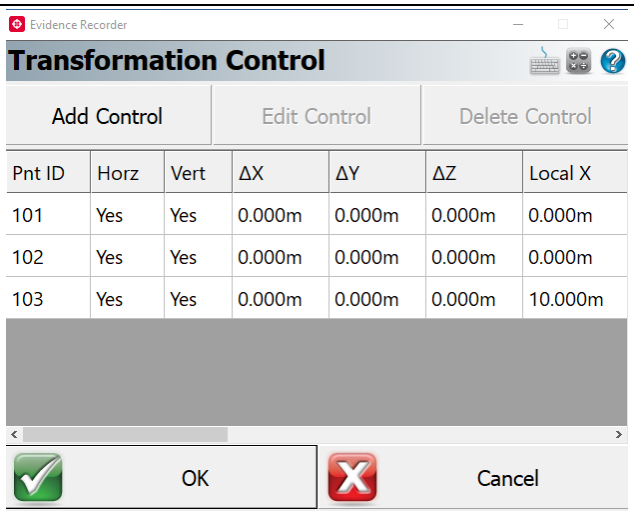
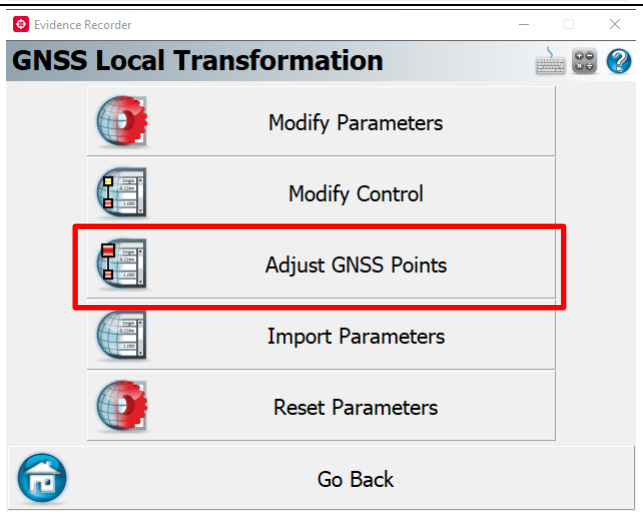
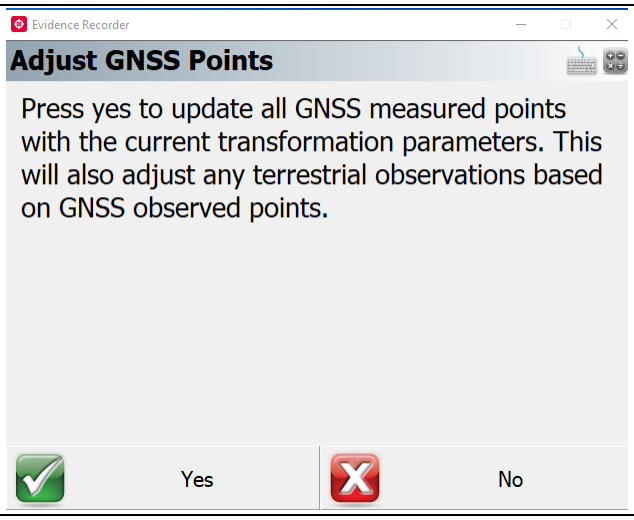
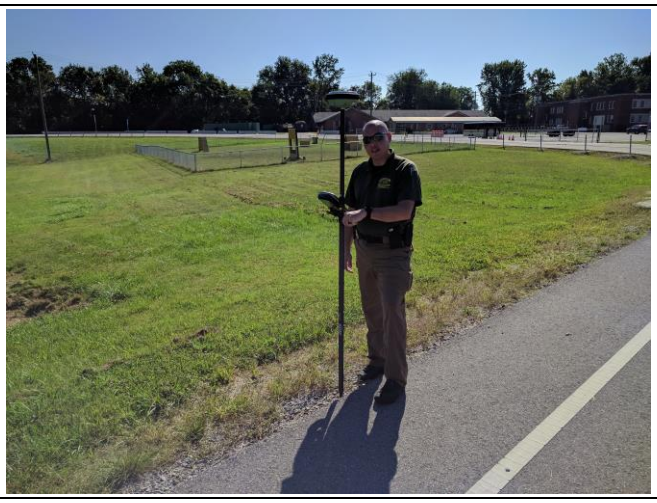
| Keep adding Controls by repeating the above Steps.<br><br>(Note: You are not limited to three control points. You may measure additional points if you wish.)<br><br>Press OK. |  |
| Press ‘Adjust GNSS Points’. |  |
| Press Yes on this screen.<br><br>This will adjust all the GNSS measurements in the project to the same coordinate system you’ve entered as controls.<br><br>All new measurements in this project will also be adjusted to the same coordinate system. |  |

| | |
|---|---|
| Now you can take GPS measurements to continue mapping the scene. |  |