



Localization Best Practices Workflow

Published (known) coordinate values for a specific control monument must exist in the job on the data collector in order to commence with Job Localization.

The coordinates for this control monument may be entered manually into the data collector or transferred digitally from a CAD drawing. This can be done for as many control monuments as needed for the job. See Quick Reference Guide for “Grid to Ground Workflow”. It must be determined if these control monument coordinate values are ground or grid values. State plane coordinate values are, by definition, grid coordinate values.

Workflow Steps

1. Identify one of the control monuments (should be a primary monument as determined by the surveyor).
2. Find, occupy, and store this control monument (this measurement is a grid coordinate value). (see Quick Reference Guide - Storing Points using SurvPC)
3. At this step two stored points of this known monument should exist and be seen in the point list on the data collector.

Pt Count:2 Highest:101				
Point ID	Northing(ft)	Easting(ft)	Elevation(ft)	Description
 1	7261922.50	1589838.60	446.653	S1/4_SEC19
 101	7261925.52	1589835.50	448.637	BC S1/4 CHK

Point 1 displays the measured (occupied) coordinate values for the primary control monument. The icon on the left displays a satellite indicating the point to be a GPS measured point. Point 101 displays the published/known coordinate value for the same primary control monument. The icon on the left displays a calculator indicating a non-occupied or manually entered point. Note the difference in the coordinate values for the two points. This will be reprocessed with localization.

4. In SurvPC navigate to the Localization button under the Equip tab, then to the Points tab.

Pt ID	Northing	Easting	Elevation(ft)	H Res(ft)	V Res(ft)	H On	V On
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Buttons: Add, Delete, Edit, On/Off, Load, View, Monitor, Save

5. Tap the Add button and select the manually entered known control point (point 101).

Please enter local coordinate values. You may use a point ID from the current or control job.

Point From File: 101

Local Northing: 7261925.5152 ft

Local Easting: 1589835.5029 ft

Local Elevation: 448.6374 ft

Tap the green check in the upper right corner.

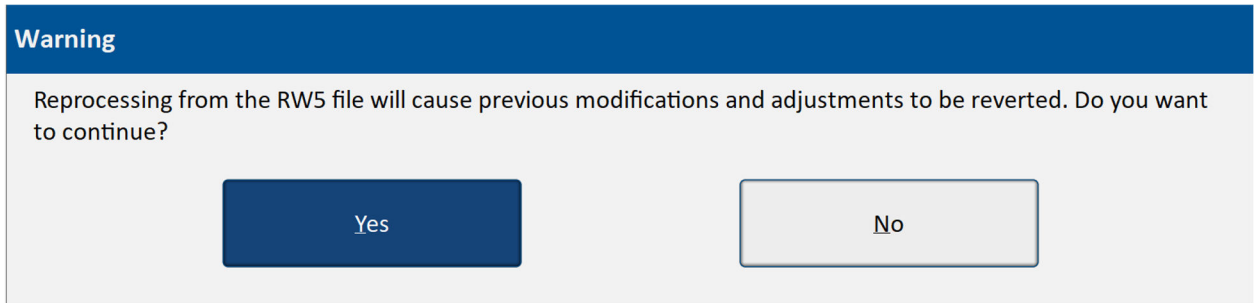
6. Select "Read From Raw File" and enter the occupied point (no 1)

Buttons: Read From GPS, Enter Latitude/Longitude, From Raw File

☐ Store Point in Current Job

7. Save the localization file where desired.

8. Click “yes” to Reprocess the Raw file and “yes” to the following warning dialog box.



Followed by the green check in the upper right corner. Review the file showing the reprocessed point 1 (the monument with the known coordinate values). Continue to tap the green check until the software returns to home screen.

9. To continue with best practices, stay in the Localization screen and select the GPS tab and then ensure the proper Grid to Ground settings are in place (check the “Use Grid to Ground” box and review the scale factor. See Grid to Ground Quick Reference Guide).