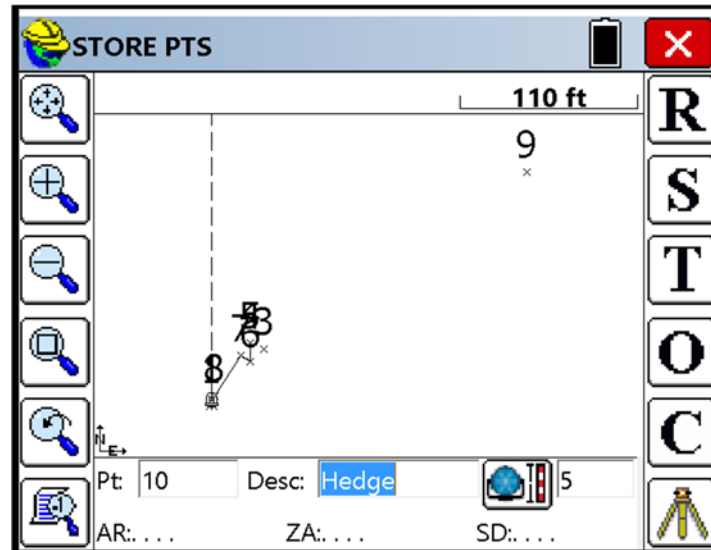


## How To Fix A Busted Rod Height in SurvCE

If a user had forgotten to change the height of their rod before storing a shot, they may remedy this by adjusting the data in the raw file.

In this example, the user has stored point #9 with his foresight height set to 5 feet. The rodman had raised the rod 3 feet so the instrument could read the location of the point, over a hedge.

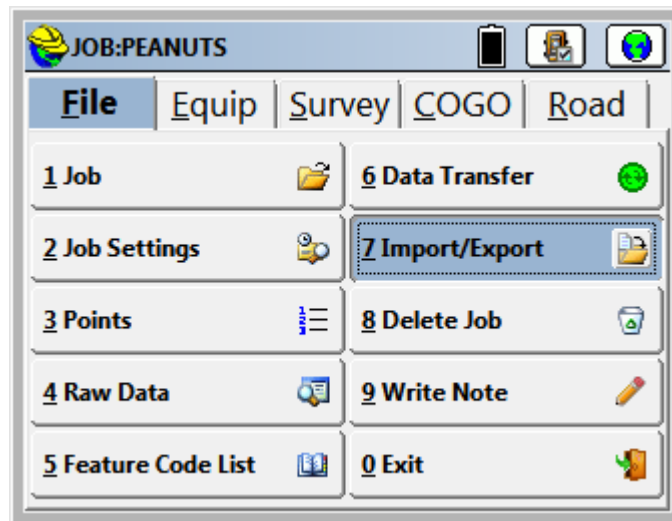


In order to change the recorded height to the correct value, the user must make the adjustment to the Raw data (RW5). However, before beginning that process, it is recommended that the user, *first*, back up their Coordinate data.

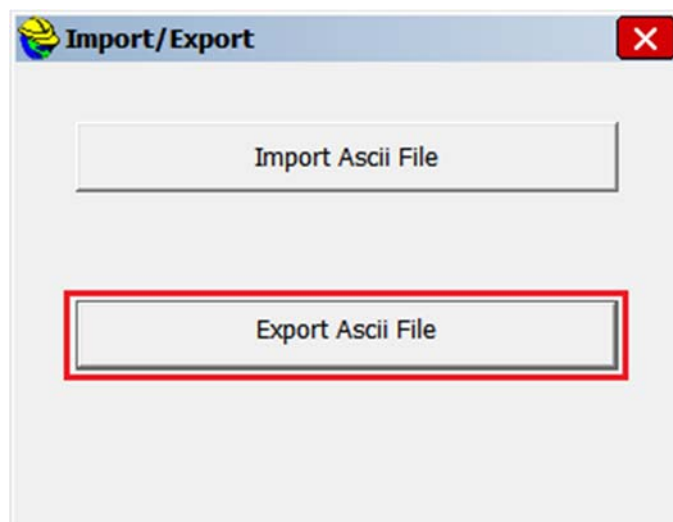
## BACKING UP YOUR DATA

### PT 1: CREATING A COPY OF YOUR COORDINATE DATA

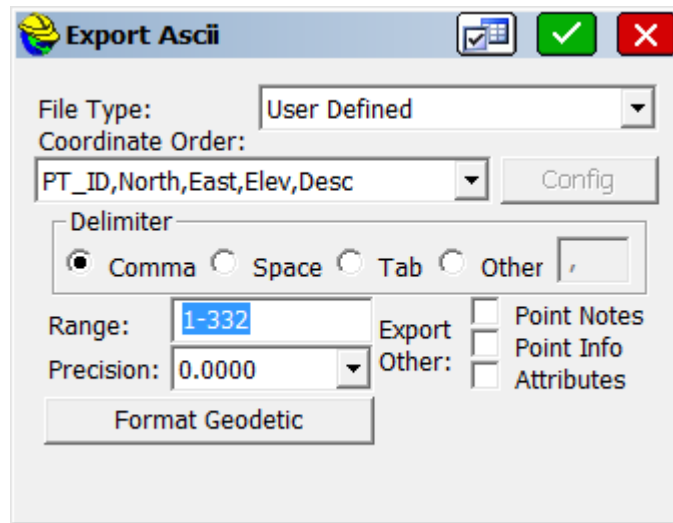
Go to the **File** menu, select option 7- **Import/Export**.



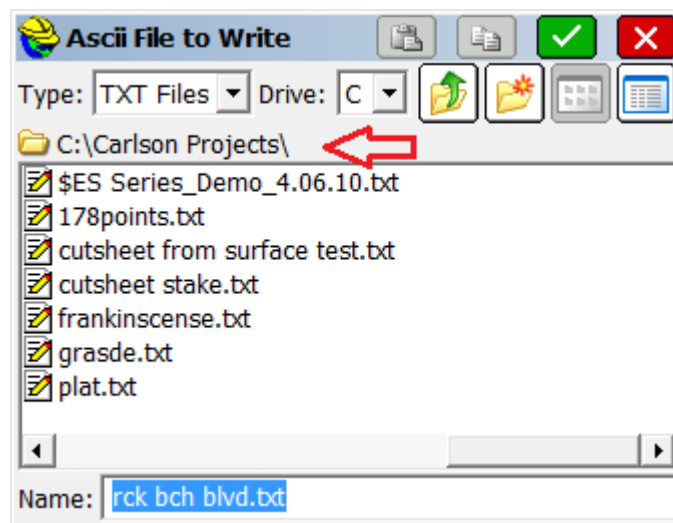
Select **Export ASCII File**. This command converts point data from the SurvCE format into an ASCII text file.



The Export ASCII window shows the format in which the text file will be created. Leave the File Type set to User Defined. Make sure that the “Range” of points contains all of the points that you wish to include in your text file. Then, tap on the Green Check.

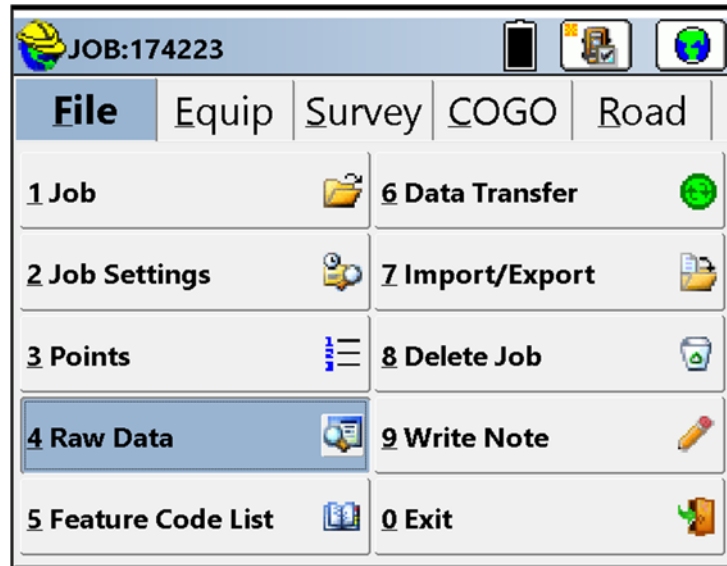


The ASCII File to Write window shows us where the text file will be saved on the data collector. The text file name will default to the name of your job. Click the Green Check to create your txt file.

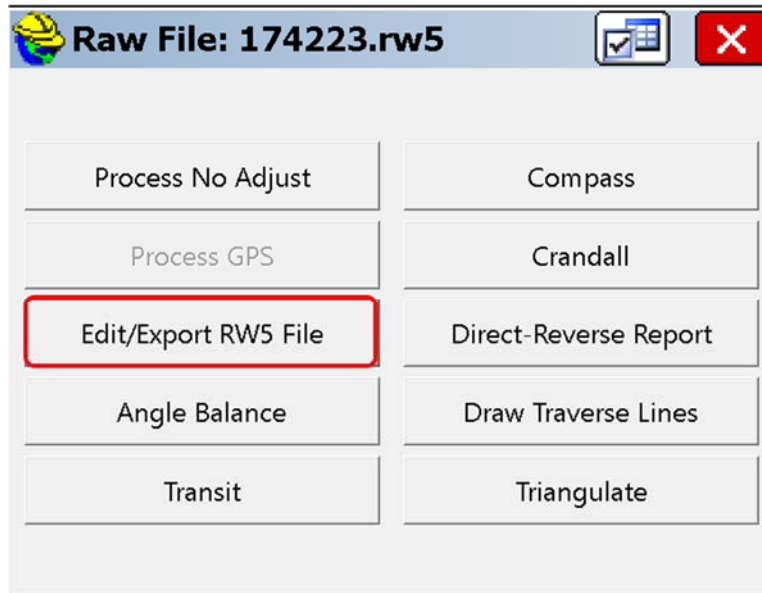


## PT 2: CREATING A COPY OF YOUR RAW DATA

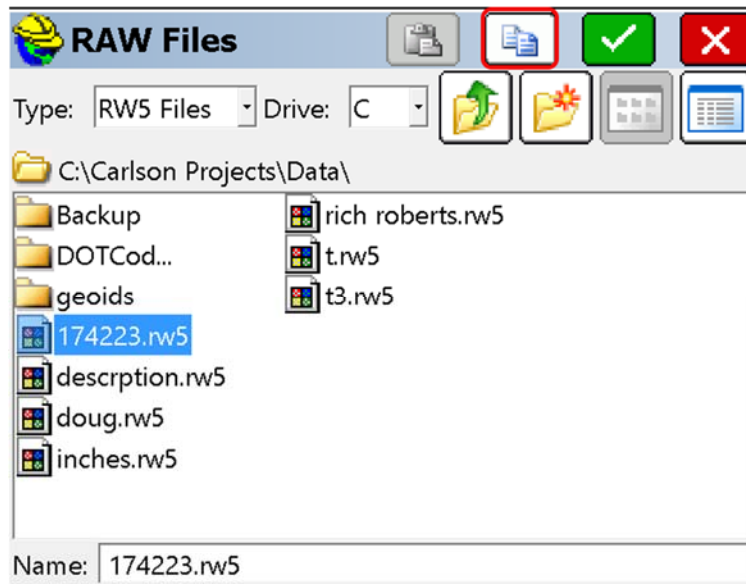
Go to the **File** menu, select option **4- Raw Data**, and then choose the raw file they wish to work with. The program will default to the current job's raw file. So, simply, tap the green checkmark.



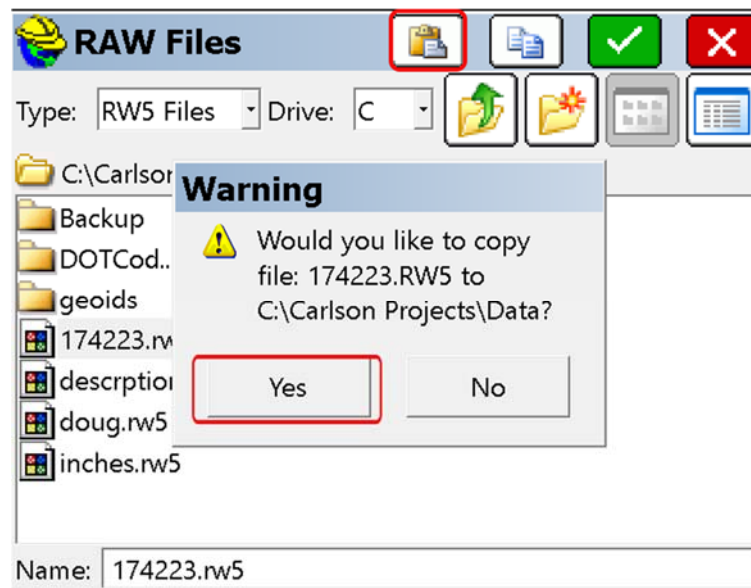
Once inside the Raw Data options, they should select **Edit/Export RW5 File**. This will enable them to see the entire raw file.



Tap on the **Copy** icon. When the Copy icon has been used, the **Clipboard** icon becomes active.



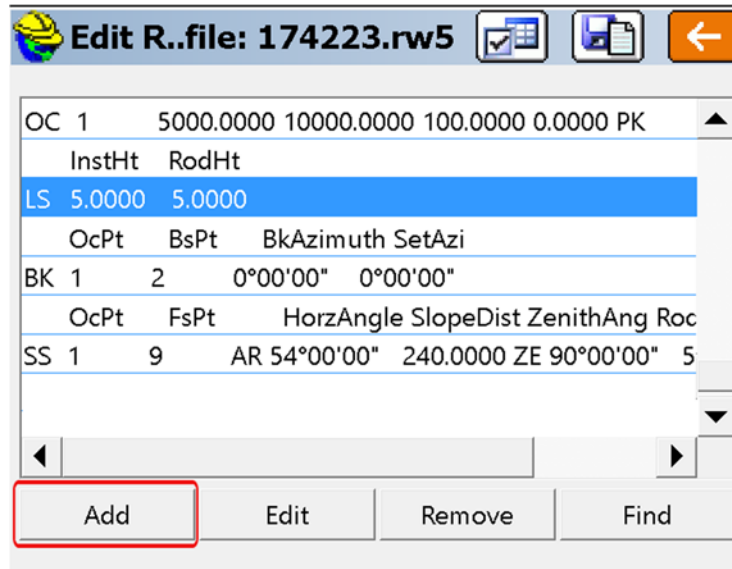
Tap on the **Clipboard** icon to create a Copy of your Raw file. The copy of your data will have the same name, but the name will begin with the word COPY.



Once the COPY of your data has been made, tap the Red X, to exit the routine. This will bring you back to the Raw editor.

## PT 2: EDITING YOUR RAW DATA

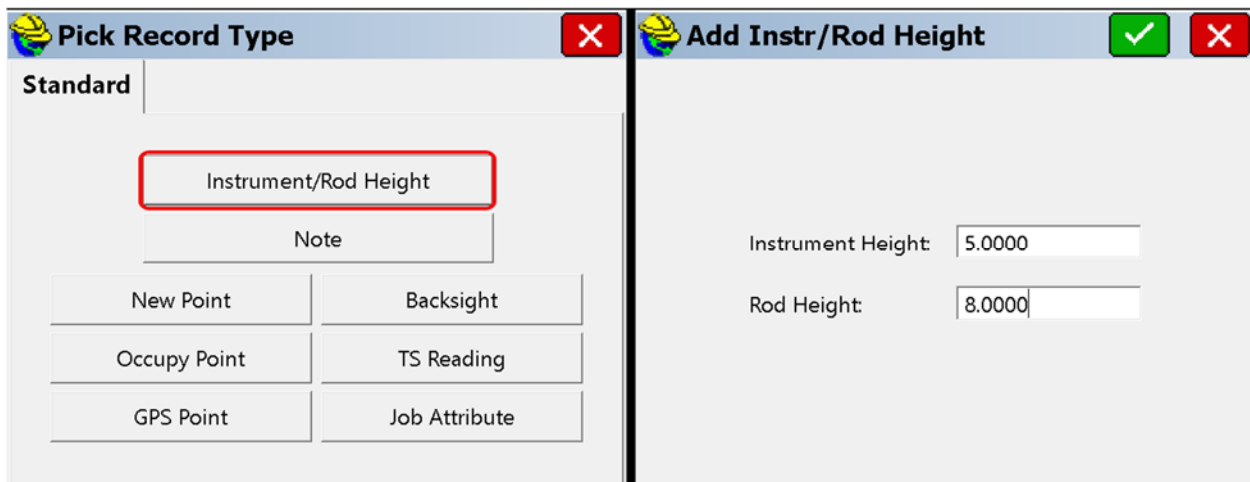
The last records in the raw file are the last records created from the day's field work. The user must scroll through the raw file to find the original record of the rod height. Then, by highlighting the last point stored at the correct rod height, click **ADD**.



OC	1	5000.0000	10000.0000	100.0000	0.0000	PK
		InstHt	RodHt			
LS		5.0000	5.0000			
		OcPt	BsPt	BkAzimuth	SetAzi	
BK	1	2	0°00'00"	0°00'00"		
		OcPt	FsPt	HorzAngle	SlopeDist	ZenithAng
SS	1	9	AR 54°00'00"	240.0000	ZE 90°00'00"	5

Buttons: Add, Edit, Remove, Find

Select **Instrument/Rod Height**. Then, enter the correct value of the rod, as well as the height of the instrument, and then click the green checkmark to store the change.



**Pick Record Type**

Standard

Instrument/Rod Height

Note

New Point Backsight

Occupy Point TS Reading

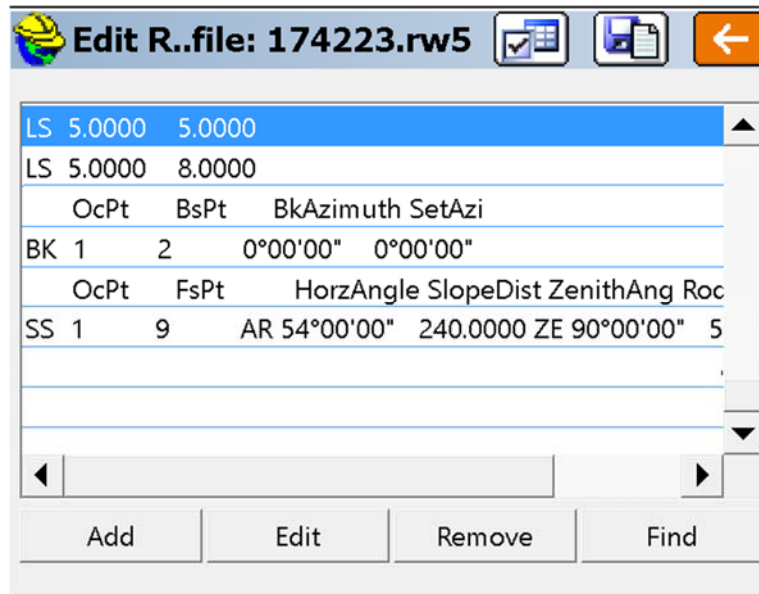
GPS Point Job Attribute

**Add Instr/Rod Height**

Instrument Height: 5.0000

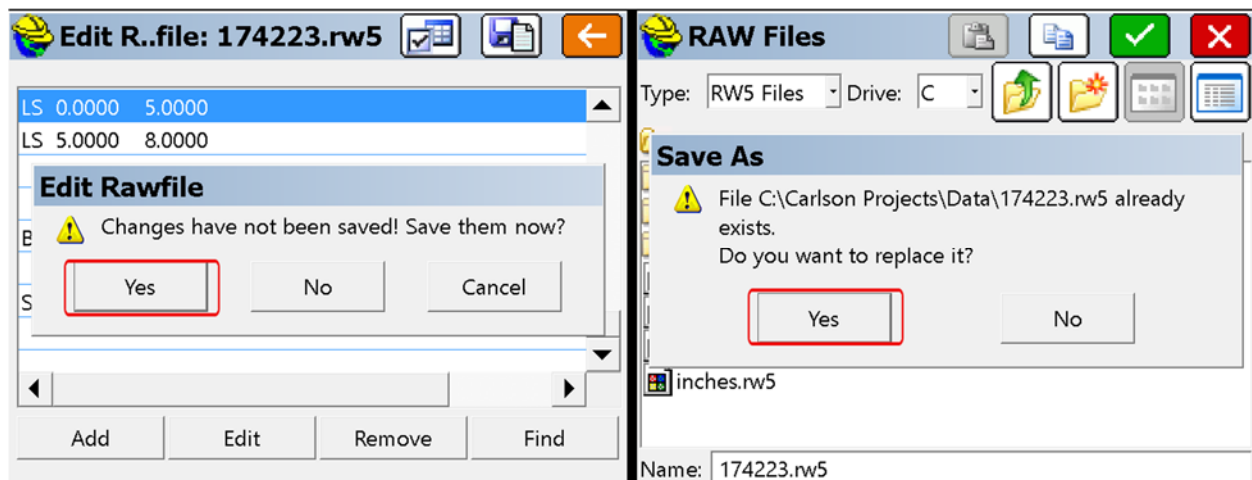
Rod Height: 8.0000

The raw file should now display a record of the changed rod height. Tap the orange, “back” arrow to exit the editor.



LS		5.0000		5.0000		
LS		5.0000		8.0000		
	OcPt	BsPt	BkAzimuth	SetAzi		
BK	1	2	0°00'00"	0°00'00"		
	OcPt	FsPt	HorzAngle	SlopeDist	ZenithAng	Roc
SS	1	9	AR 54°00'00"	240.0000	ZE 90°00'00"	5

You will be prompted to save the changes to your Raw file. You may overwrite the raw file, as we have already created a backup.



**Edit Rawfile**

⚠ Changes have not been saved! Save them now?

**RAW Files**

Type: RW5 Files Drive: C

**Save As**

⚠ File C:\Carlson Projects\Data\174223.rw5 already exists.  
Do you want to replace it?

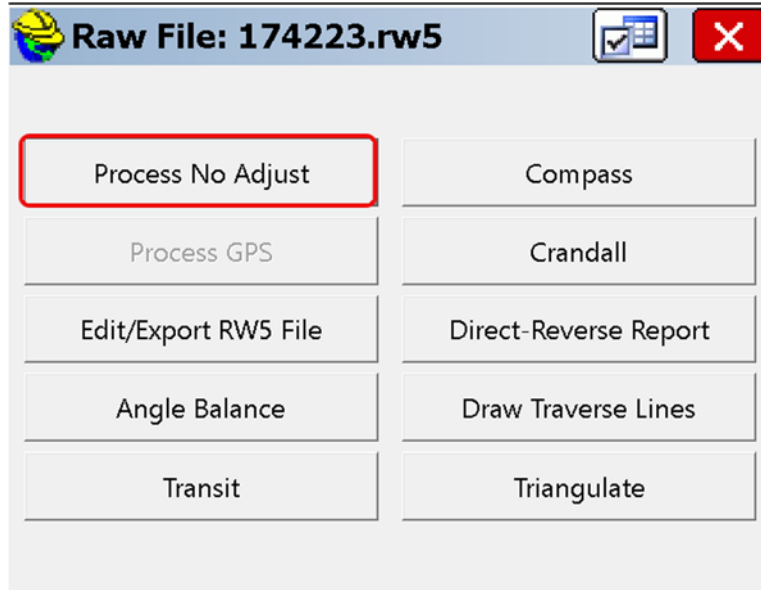
inches.rw5

Name: 174223.rw5

As a final step, you will want to process the Raw file to apply the changes, which you had made.

## **PT 3: PROCESSING YOUR RAW DATA**

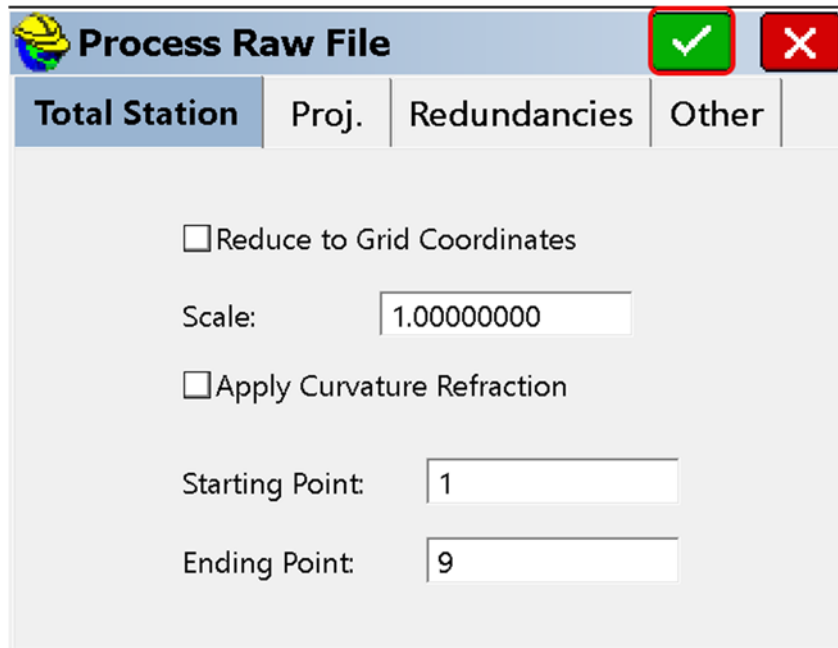
Select Process No Adjust. This option will apply the proper changes, without adjusting any angles or distances.



Raw File: 174223.rw5

Process No Adjust	Compass
Process GPS	Crandall
Edit/Export RW5 File	Direct-Reverse Report
Angle Balance	Draw Traverse Lines
Transit	Triangulate

Clear all option boxes in the *first* dialogue box. Then, tap the green check to continue.

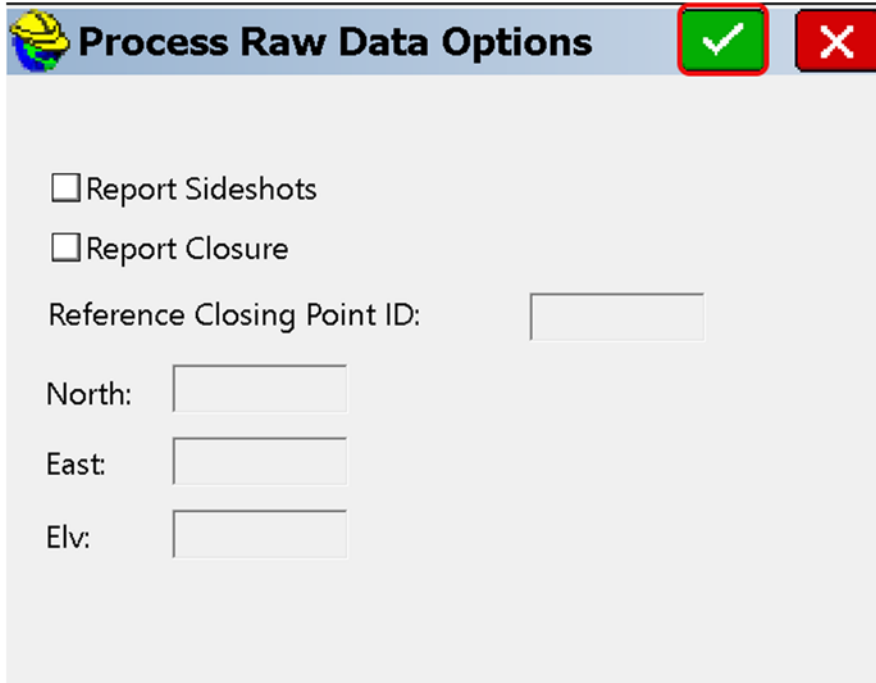


Process Raw File

Total Station	Proj.	Redundancies	Other
<input type="checkbox"/> Reduce to Grid Coordinates			
Scale: 1.00000000			
<input type="checkbox"/> Apply Curvature Refraction			
Starting Point: 1			
Ending Point: 9			



Clear all option boxes in the *second* dialogue box. Then, tap the green check to continue.



**Process Raw Data Options**

☐ Report Sideshots

☐ Report Closure

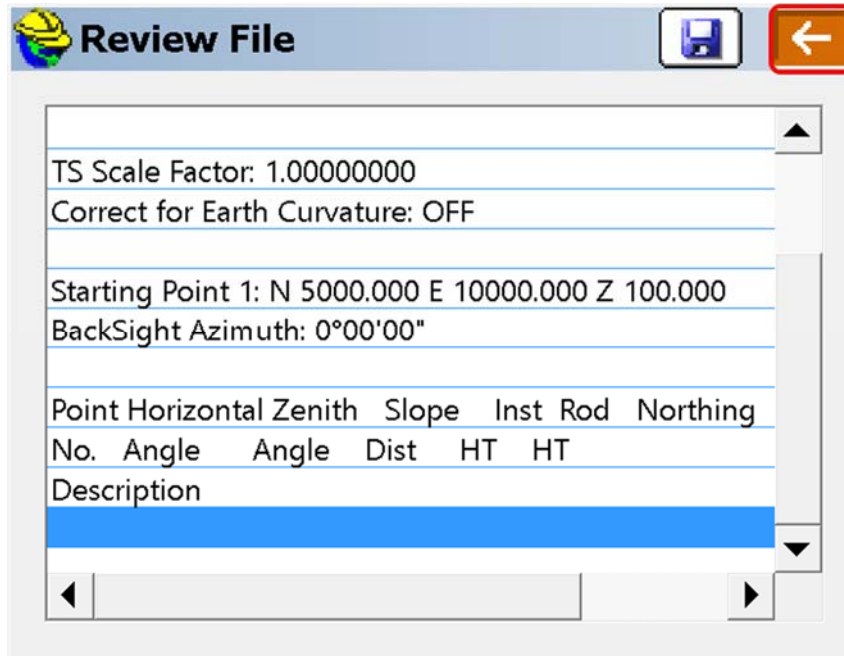
Reference Closing Point ID:

North:

East:

Elv:

Tap on the orange, “back” arrow to exit the Review File screen.



**Review File**

TS Scale Factor: 1.00000000

Correct for Earth Curvature: OFF

Starting Point 1: N 5000.000 E 10000.000 Z 100.000

BackSight Azimuth: 0°00'00"

Point	Horizontal	Zenith	Slope	Inst	Rod	Northing
No.	Angle	Angle	Dist	HT	HT	
Description						

Tap on the red X to exit the Raw File options. Then, save the changes to your CRD file.

