**Multiple point Resection with TDS Survey-Pro**

**Note:** TS = Total Station; DC = Data Collector;

Sometimes it’s necessary to return to a site and set up over a point not previously surveyed, and tie it into your survey. You may need to do this to take some additional shots or stake out a practice. This is the procedure.

Setup TS and hookup to DC.  
In TS: Turn instrument on, and level.

In DC: Double-tap the “Survey-Pro” logo. You get a “Welcome to Survey-Pro” screen. You have the option to open an existing job or start a new one.  
Highlight the job you want to open. Tap **Open**

Tap “Survey”

Tap the “down” arrow on the right-hand side of the screen until you get to **Resection**.
Tap it.

In the “Resection” screen:

- **Store Pt:** = Accept the point number of your new setup or type in your own.
- **Instrument Height:** = HI
- **Total Resect Points to shoot:** = any number between 2 and 7. You will have to take a shot on every point, so you better be able to locate them.
- **Shots per Resect Point:** = 1
- **Sequence:** = Direct Only

Tap **Solve**.

You get a screen named “Resect Point 1”:

- **Resect Point:** Type in the point number of the first existing point you want to shoot
- **Option:** = Distance and Angle
- **HR:** = rod height

Tap **Take Shot**. You get another screen indicating Set 1 of 1 (?), Tap **Take Shot** again.

The DC will repeat this process on as many resection points as you indicated back on the resection screen.
When done, the DC will automatically go into a “Save Point” screen. Type in the description of your new setup point (i.e. STA B).

When you are done with the resection:

Repeat the “Remote Elevation” process to set up your new EI.

Repeat the “Backsight Setup” process to re-orient your azimuth.

This time use “Backsight Point” rather than “Backsight Direction” to 0-set on.

To 0-set on one of your known points:

Sight on desired point. On your DC, “Backsight Circle” should read 0d00’00”.

Tap Circle.

Tap Send to Instrument.

TS will 0-set itself on the point you indicated.

You are now ready to continue taking sideshots.