

Stake-Out in SiteMetrix v1.9: Training Guide

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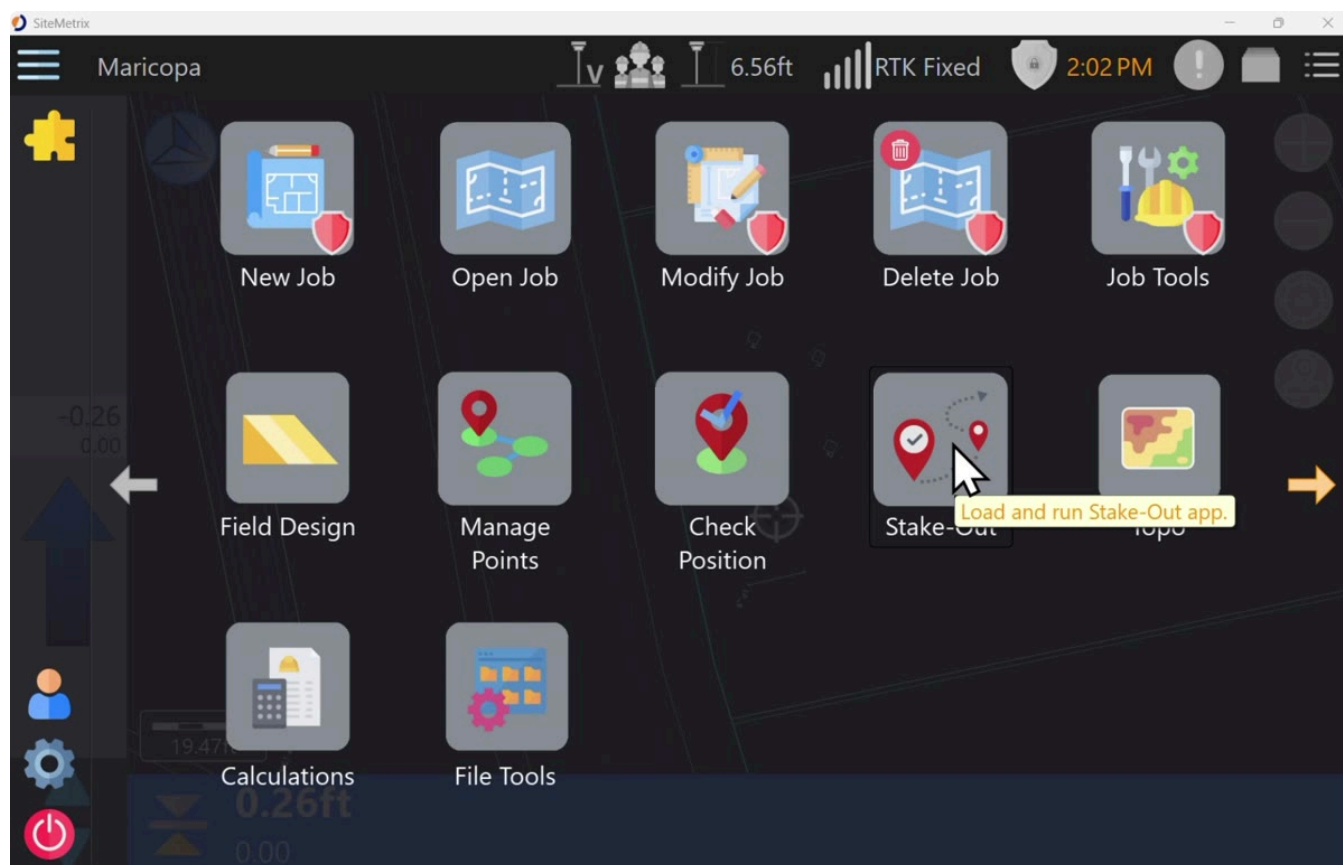
Stake-Out guides you to a point or along a line in the job, showing direction, distance and cut/fill as you move. This guide follows the 10-minute training video "Stakeout in SiteMetrix Grade v1.9". It covers staking points and lines with the Stake-Out app, then following a line as a guideline from the grade screen.

Before you start

- Open a job that has the points or lines you want to stake. The video uses a topo file with four points and a line named LP_6.
- Check the top bar reads **RTK Fixed**.

Step 1: Open Stake-Out

Tap the menu icon (top left), then tap **Stake-Out**.



The **Enter/Select Position** screen opens. The three tabs are three ways to choose what to stake.

Step 2: Choose what to stake

From Topo: pick a point from the list

The tab lists the points in the job's topo file with their layer, northing, easting and elevation. Tap a point. Tap the document icon to switch to a different topo file.

Enter/Select Position

Name: _____
Layer: _____
Northing: _____
Easting: _____
Elevation: _____
Code: _____

From Topo **From Line** **From Screen**

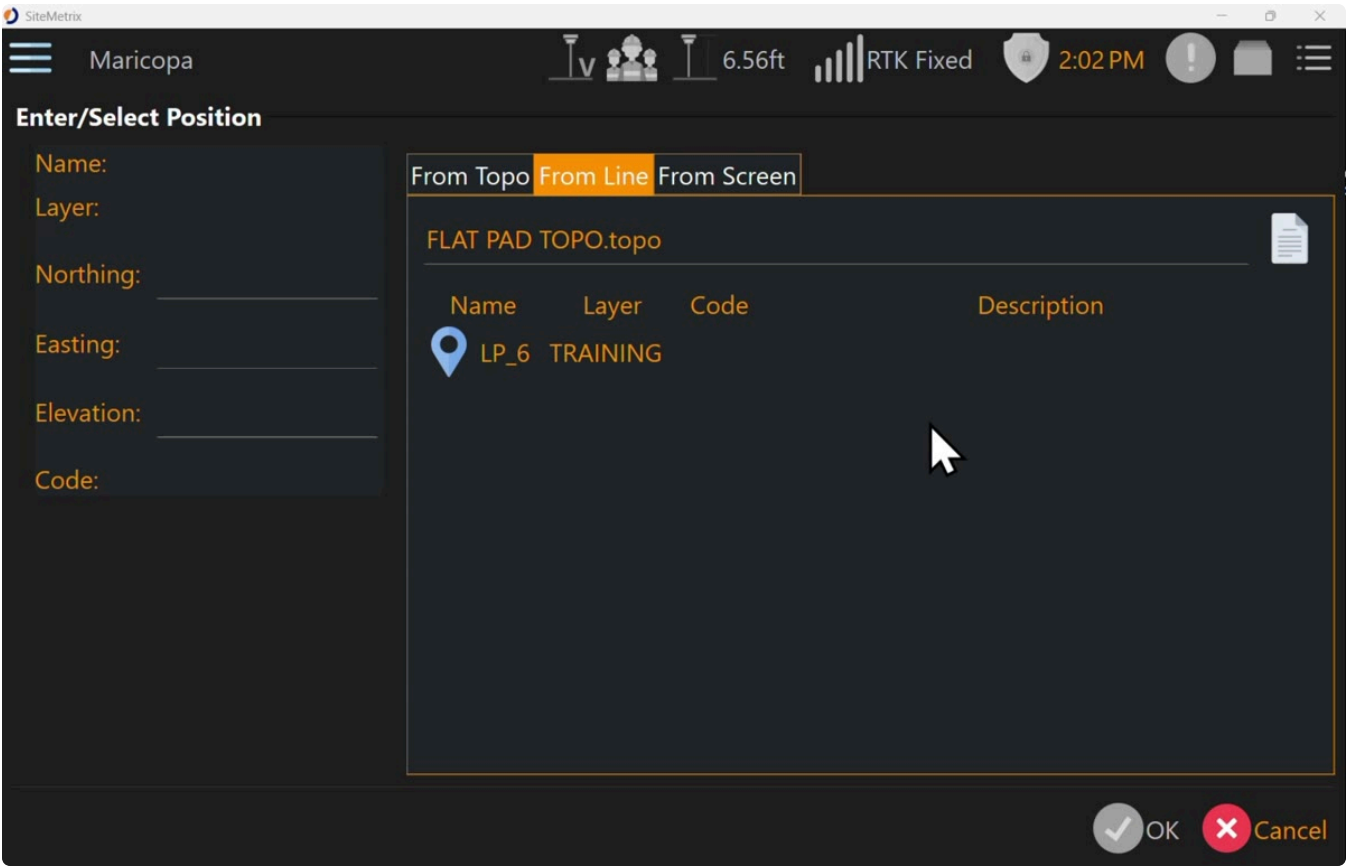
FLAT PAD TOPO.topo

Name	Layer	Northing	Easting	Elevation	Code
1	Default_Topo	50341.00ft	60777.80ft	500.00ft	
2	Default_Topo	50350.11ft	60792.72ft	500.00ft	
3	Default_Topo	50340.93ft	60799.41ft	500.00ft	
4	Default_Topo	50328.07ft	60779.57ft	500.00ft	

OK Cancel

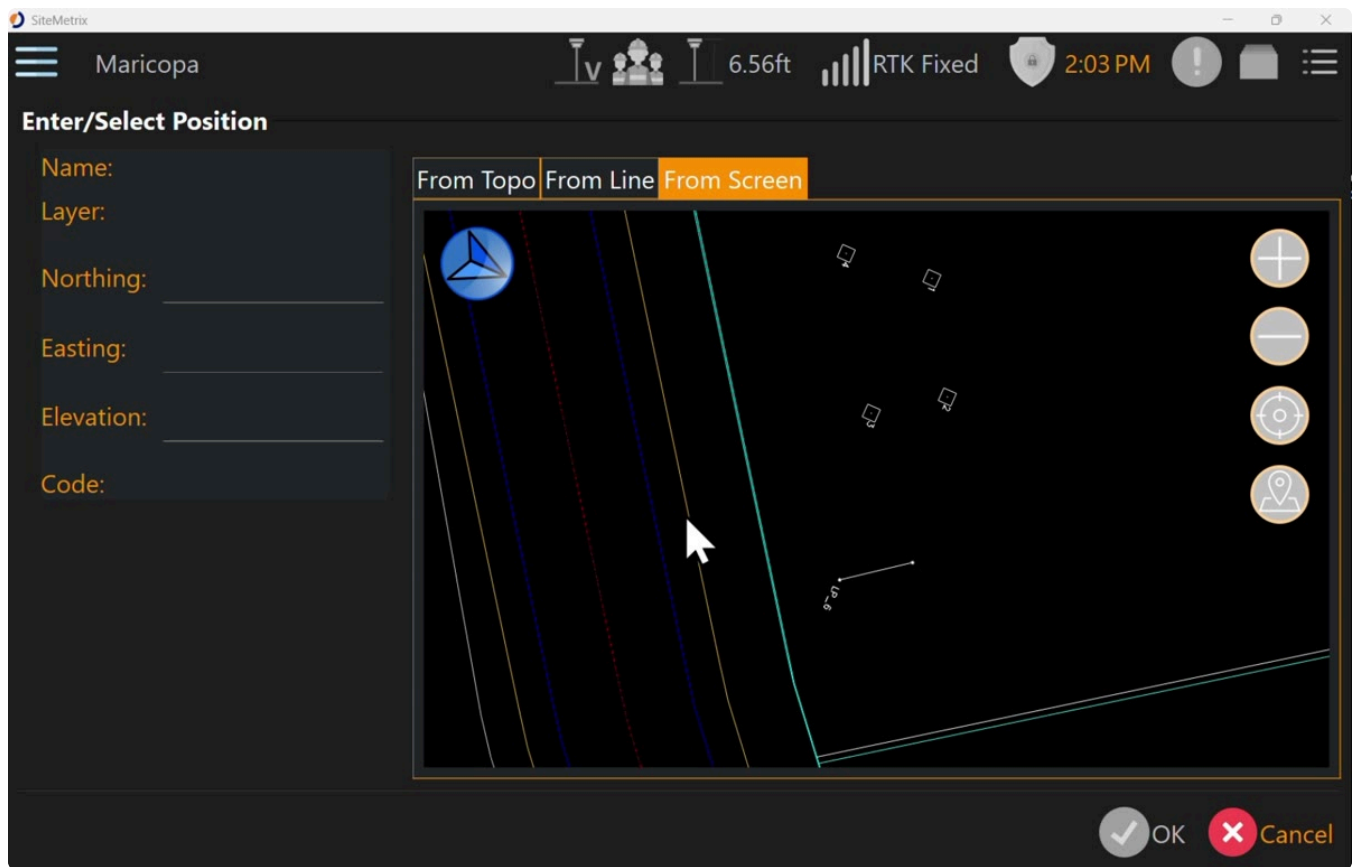
From Line: pick a line from the list

The tab lists the lines in the file. Tap a line to select it.



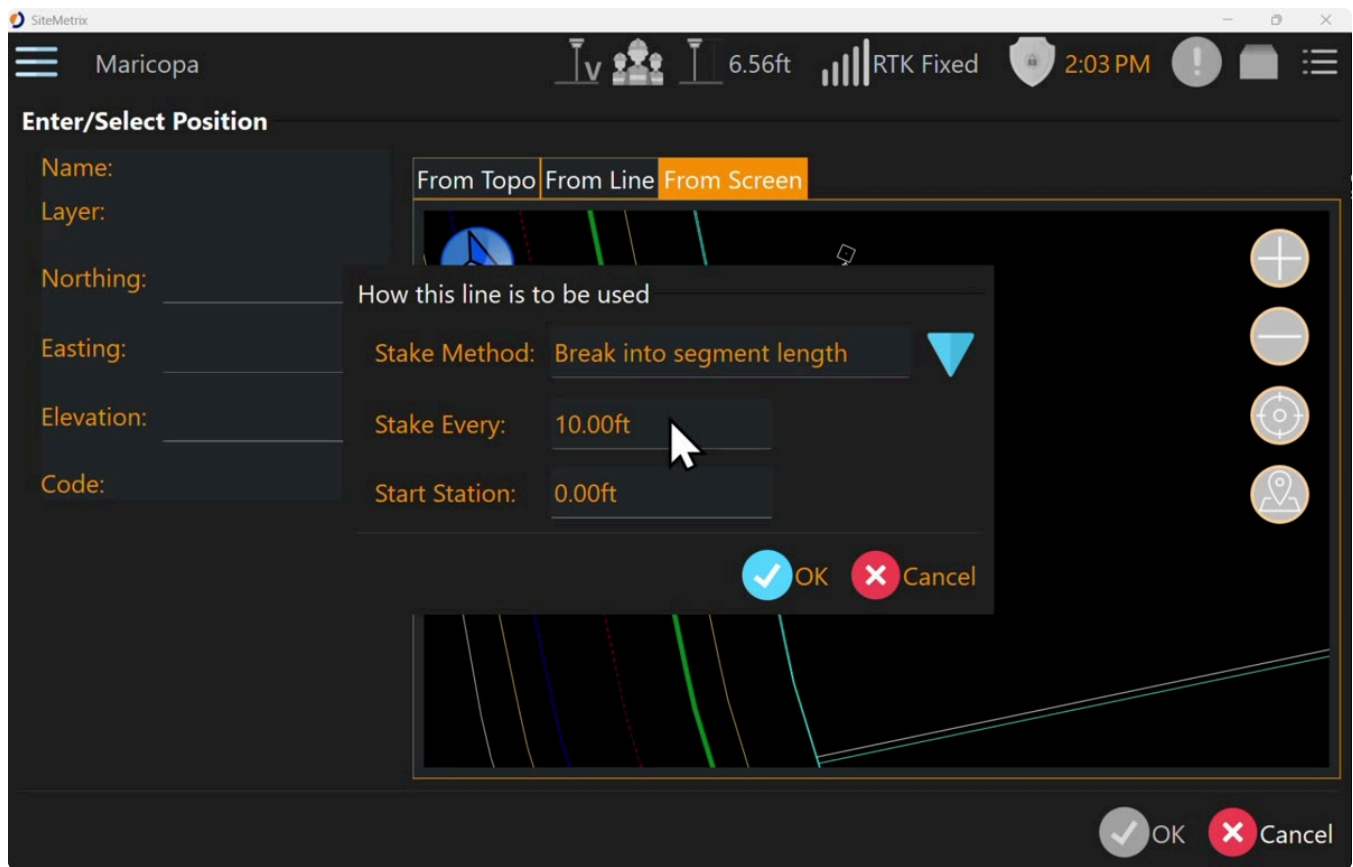
From Screen: tap it on the map

The tab shows the job map. Zoom and pan with the buttons on the right, then tap the point or line you want.



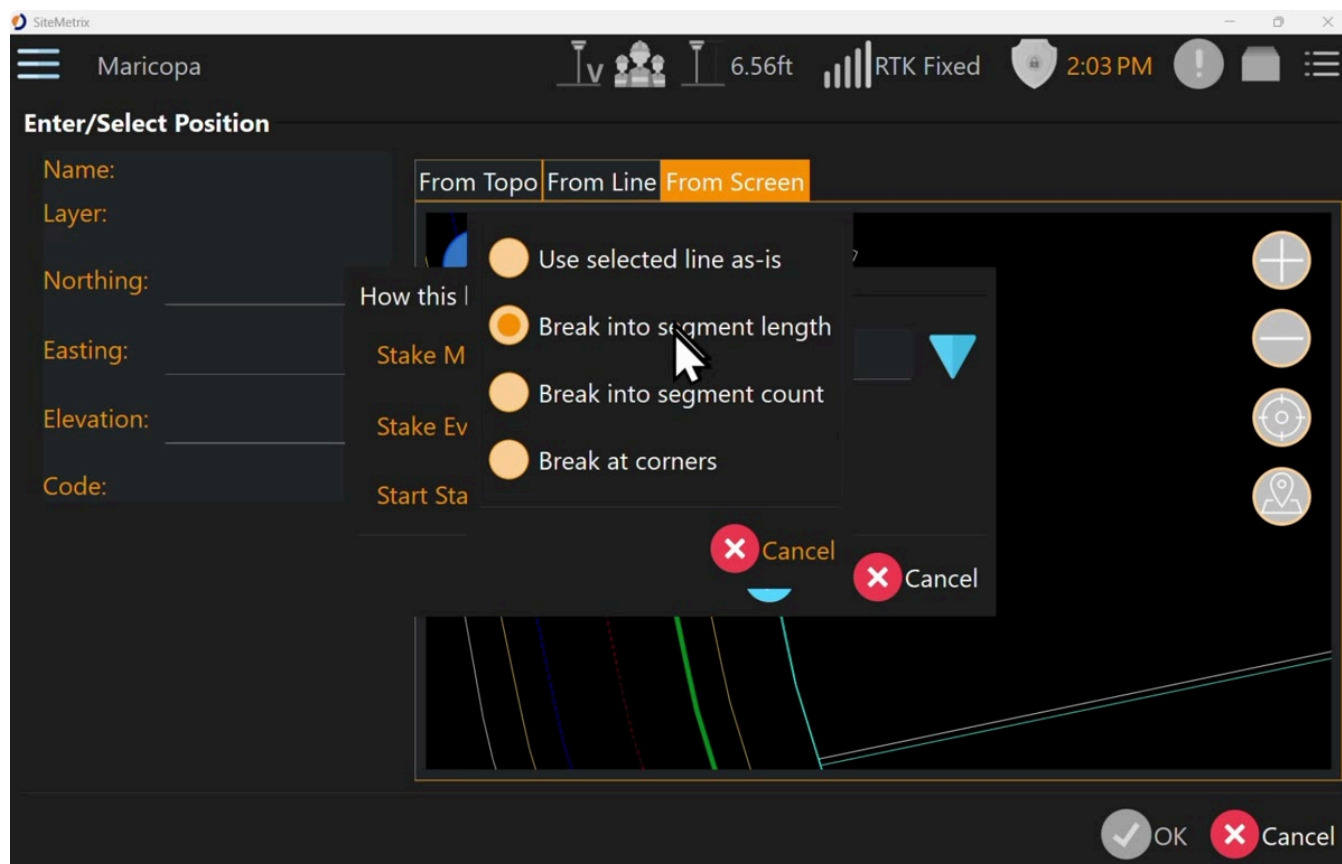
Step 3: Set how a line is staked

When you tap a line on the From Screen tab, a box asks how the line is to be used.



1. Tap **Stake Method** and choose one:

Stake Method	Stake points created
Use selected line as-is	The line's own points
Break into segment length	One every set distance; enter it in Stake Every (10 ft in the video)
Break into segment count	A set number of equal segments
Break at corners	One at each corner of the line



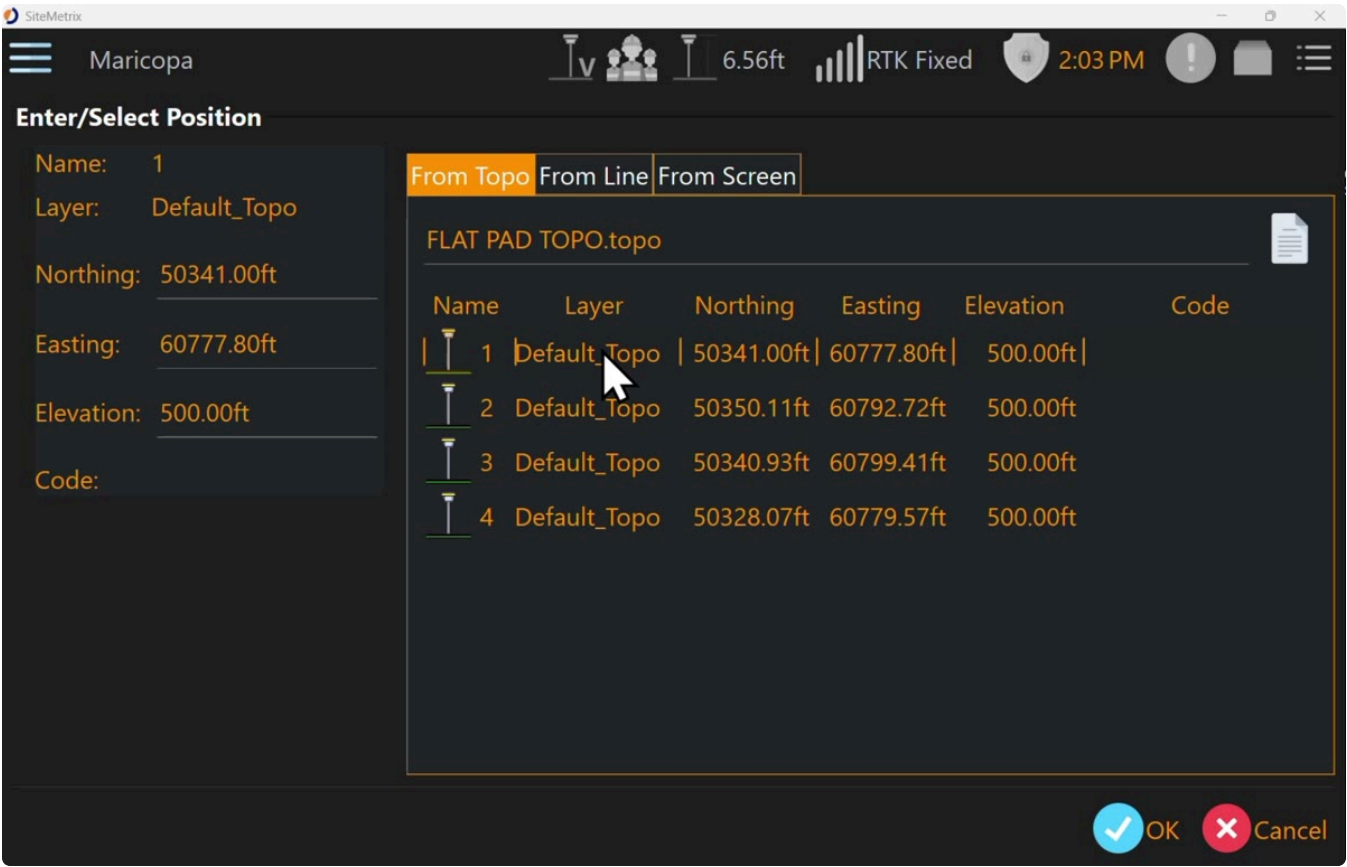
2. Enter the **Start Station** if the line should not start at 0.

3. Tap **OK**.

The stake points are named after the line and numbered in order: LP_6:1, LP_6:2 and so on.

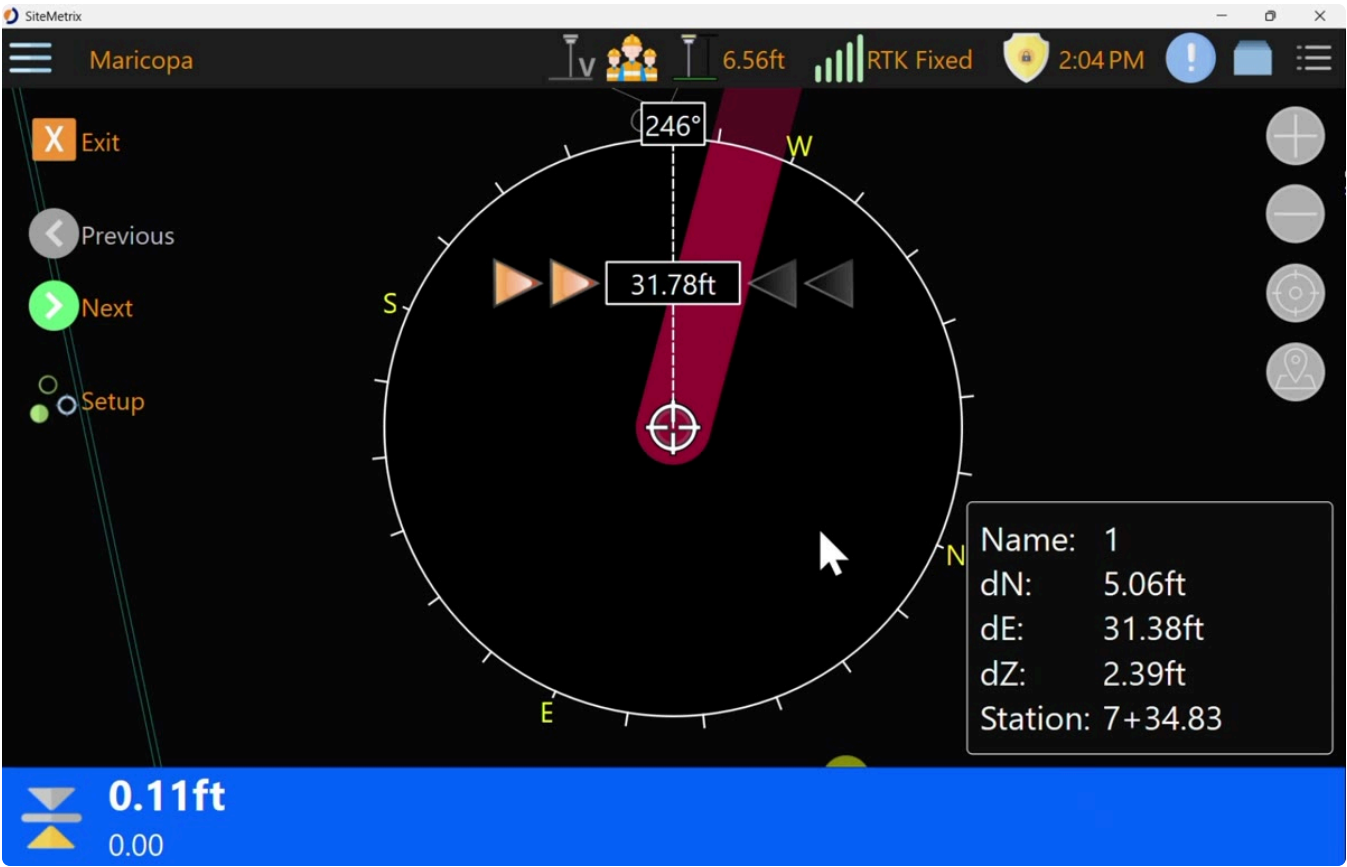
Step 4: Confirm the position

The left side fills in with the Name, Layer, Northing, Easting and Elevation of your selection. Check them and tap **OK**.



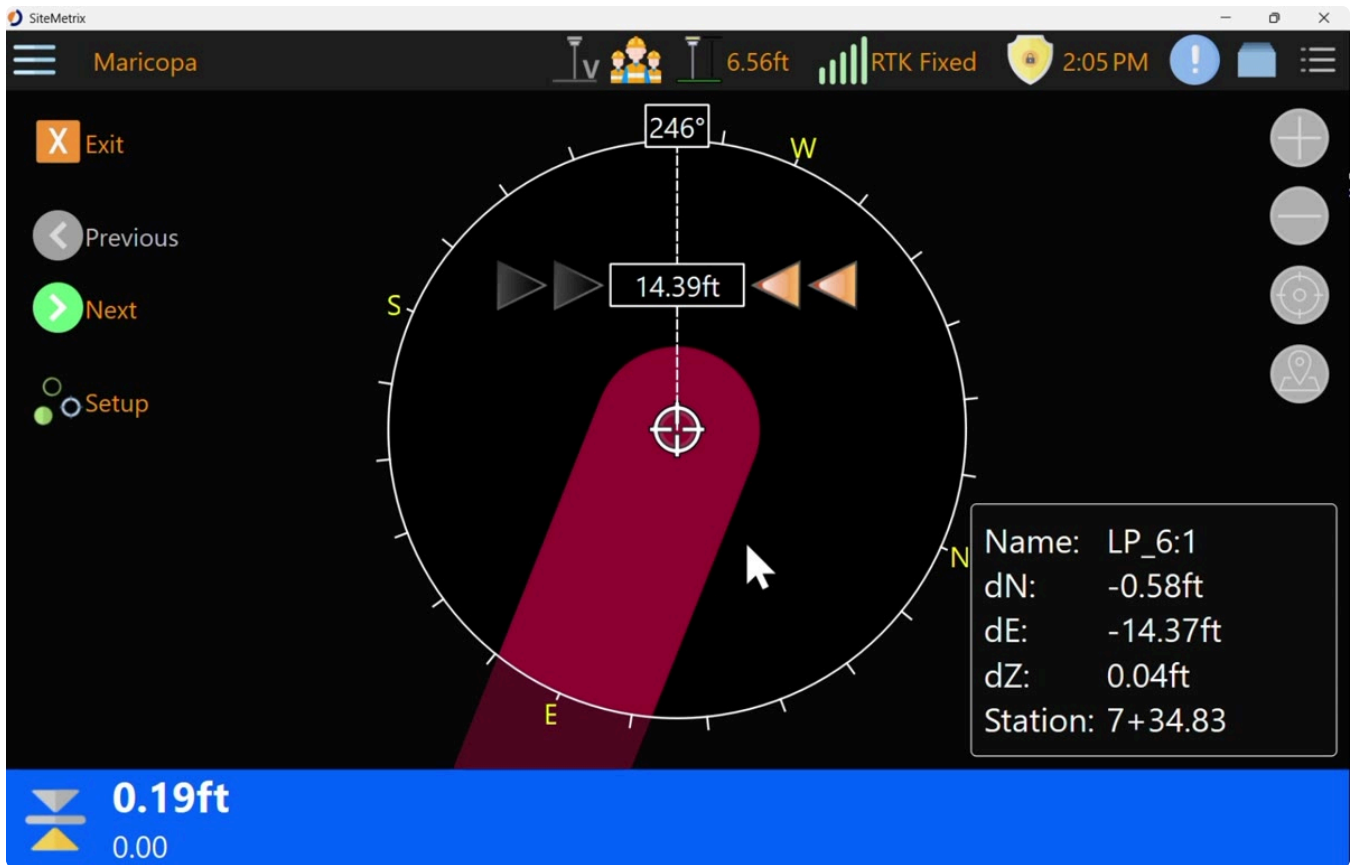
Step 5: Navigate to the point

The navigation screen opens.

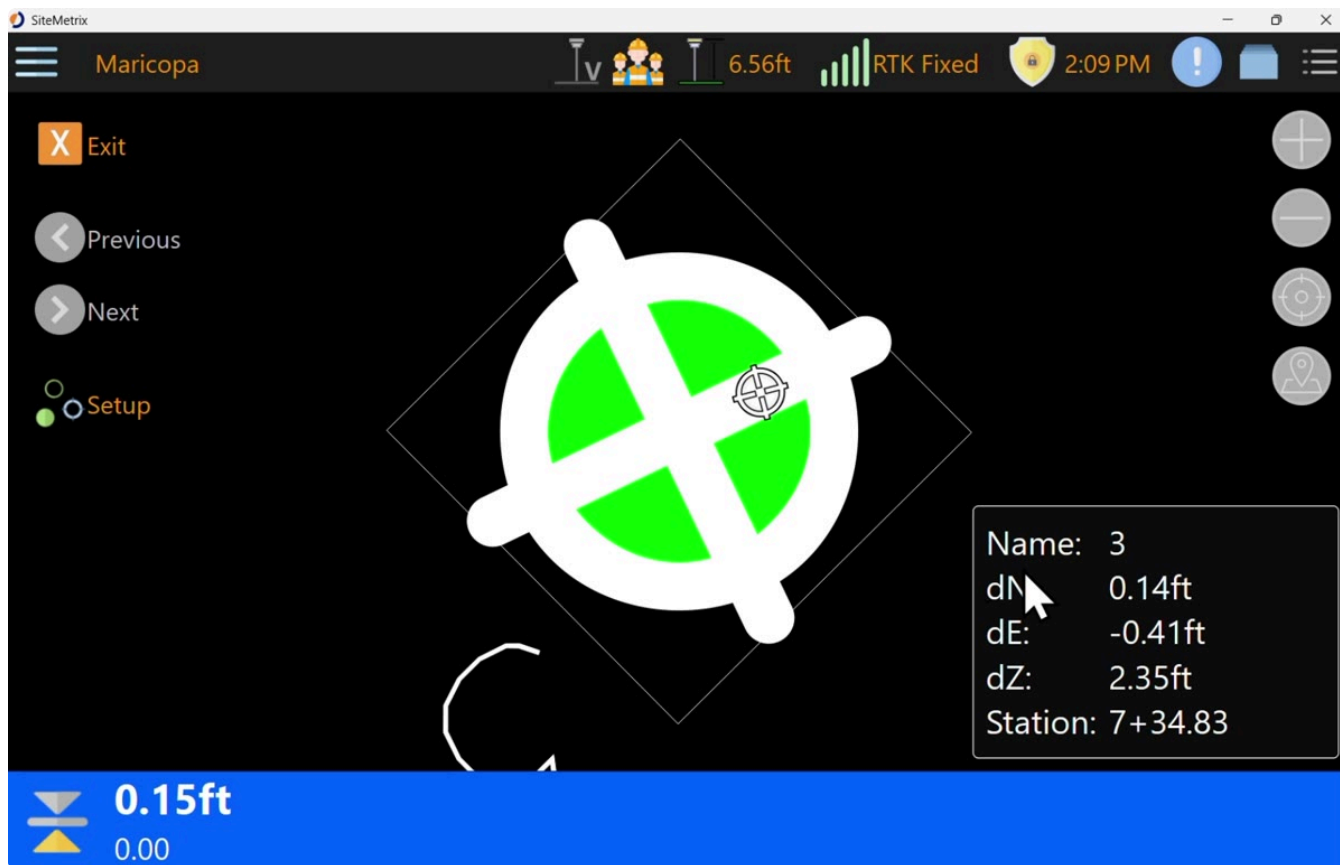


On screen	What it shows
Compass ring and number at the top	Your current heading
Red band	Direction to the stake point
Box with arrows	Distance to the point; the lit arrows show which way to steer
Info box	Point name, dN, dE and dZ to the point, and station
Bottom bar	Cut/fill at your current position

Move toward the point until the distance counts down. For a line, the info box shows which stake point you are on.



When you are nearly on the point, the compass is replaced by a large green target. Use dN and dE to close the last few tenths.



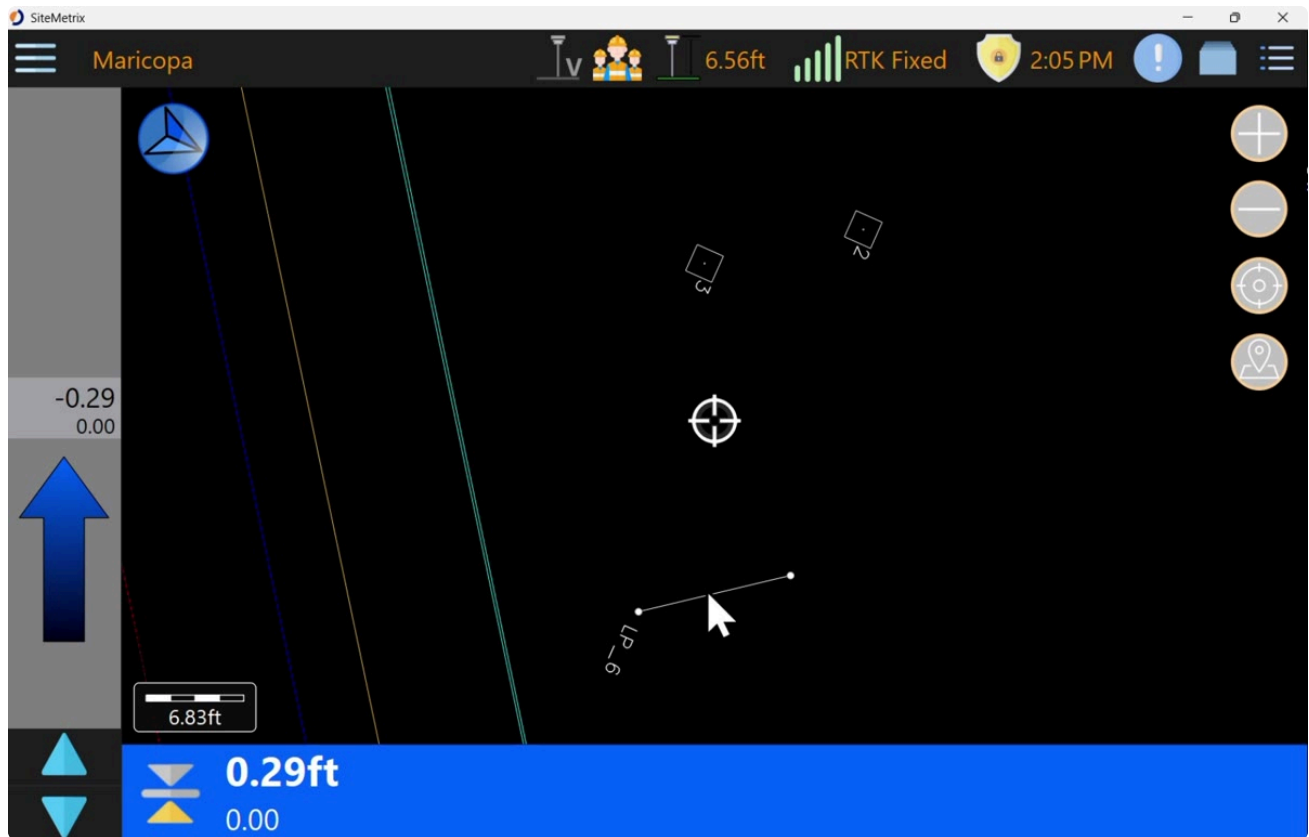
The buttons on the left:

- **Next** and **Previous** step through the stake points in order.
- **Setup** returns to Enter/Select Position to stake a different point or line.
- **Exit** returns to grading.

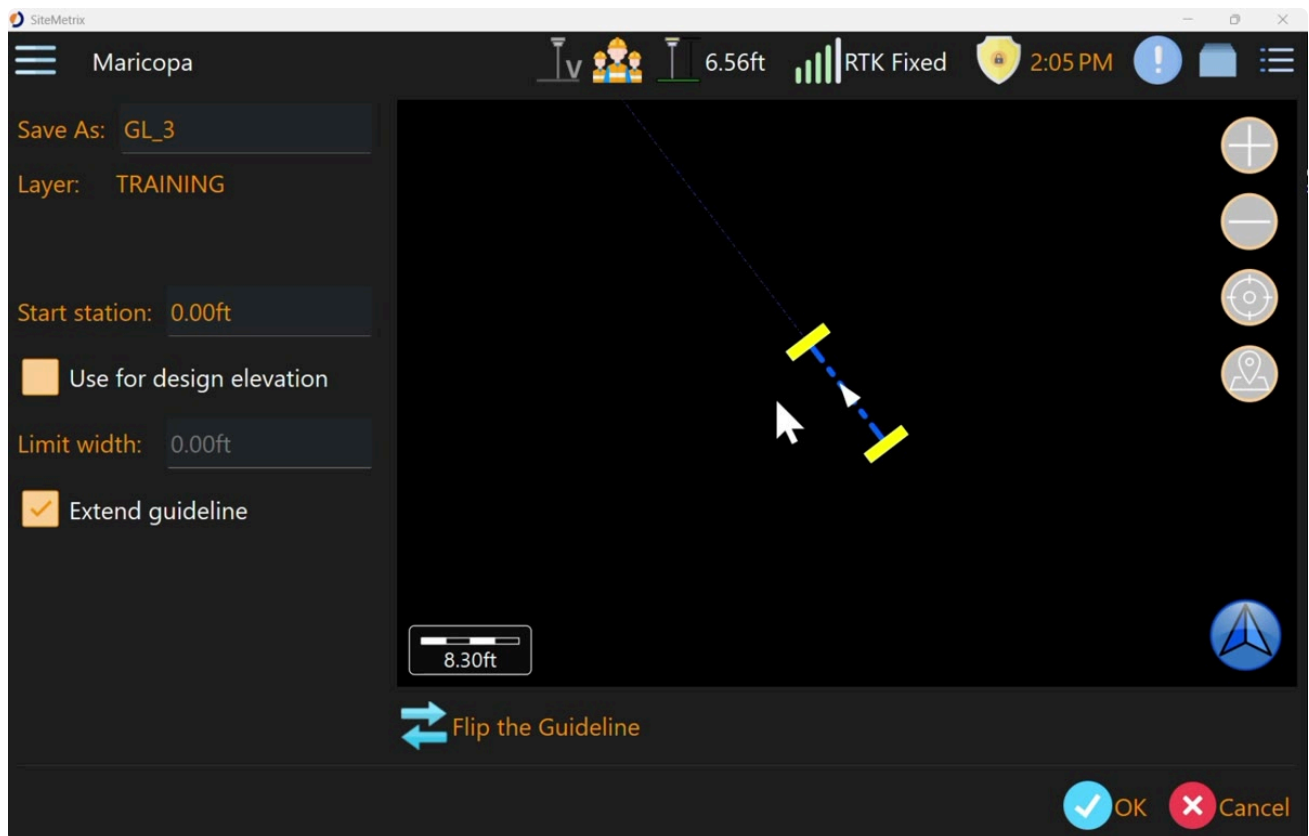
Follow a line as a guideline

You can also be guided along a line from the grade screen, without opening Stake-Out.

1. On the grade screen, tap the line.

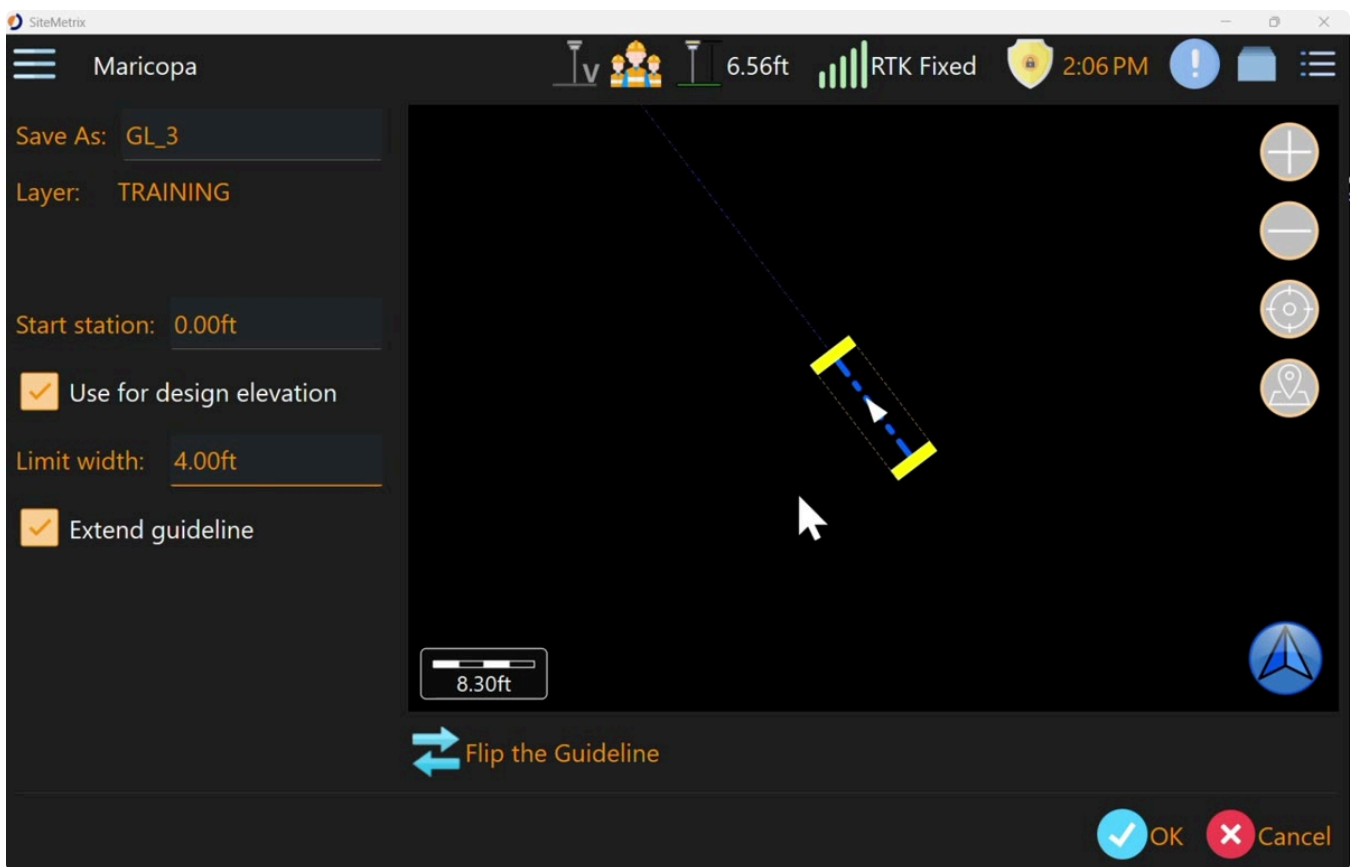


2. The guideline box opens with a suggested name (GL_3 in the video) and the line's layer.



3. Set the options:

Option	What it does
Start station	Station value at the start of the line
Use for design elevation	Grade to the line's elevation; turns on Limit width
Limit width	How far either side of the line the design applies (4 ft in the video)
Extend guideline	Continue the line past its ends
Flip the Guideline	Reverse the line's direction

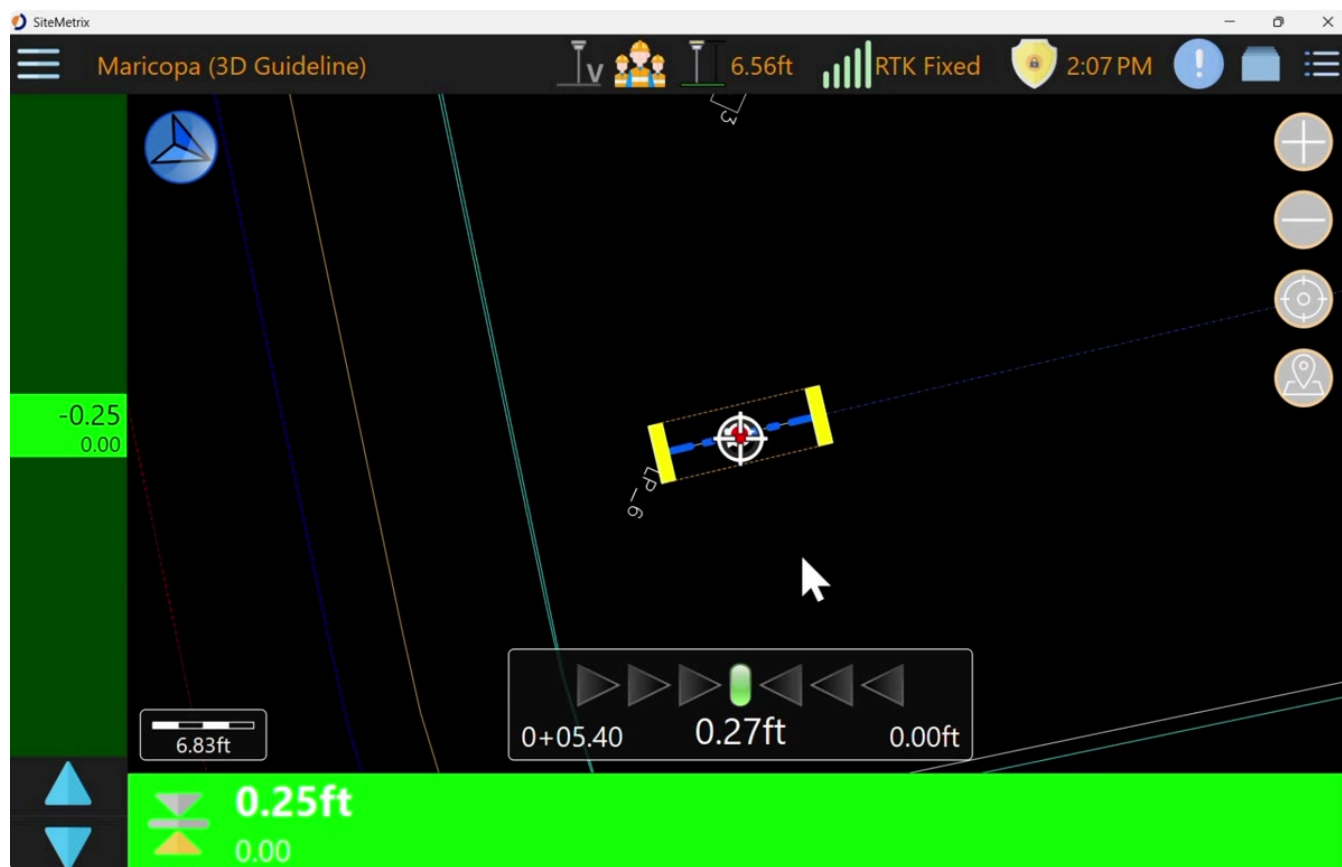


4. Tap **OK**.

The job name in the top bar now ends in **(3D Guideline)**. A steering bar shows your station and your offset from the line. Away from the line, the cut/fill bar reads **Off Design**.



Once you are within the limit width, cut/fill returns and the center of the steering bar turns green.



Change or turn off the guideline

Tap the guideline again. Adjust the settings and tap **OK**, or tap **Turn off Guidance** to remove it and return to normal grading.

