

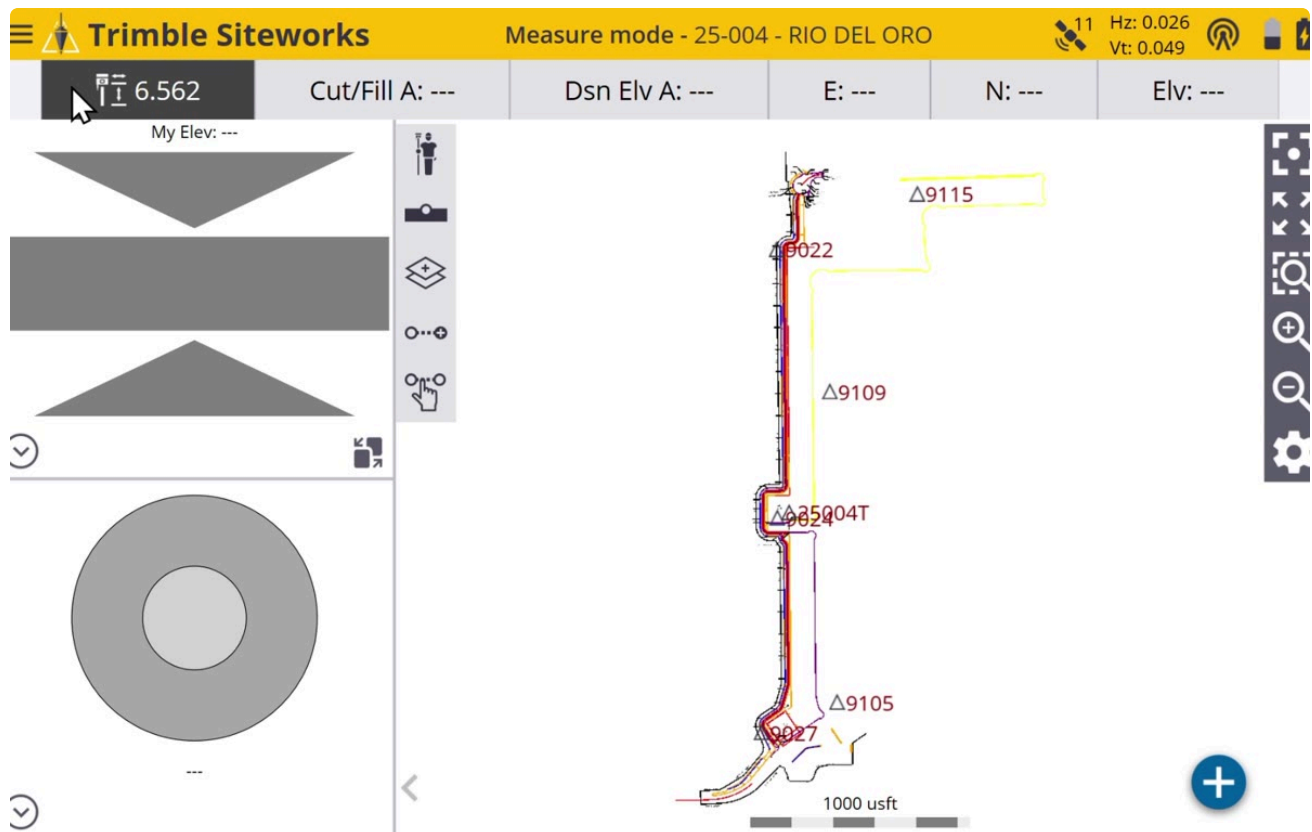
How To: Load a Trimble Site Calibration File

Oct 20, 2026 • @Johan

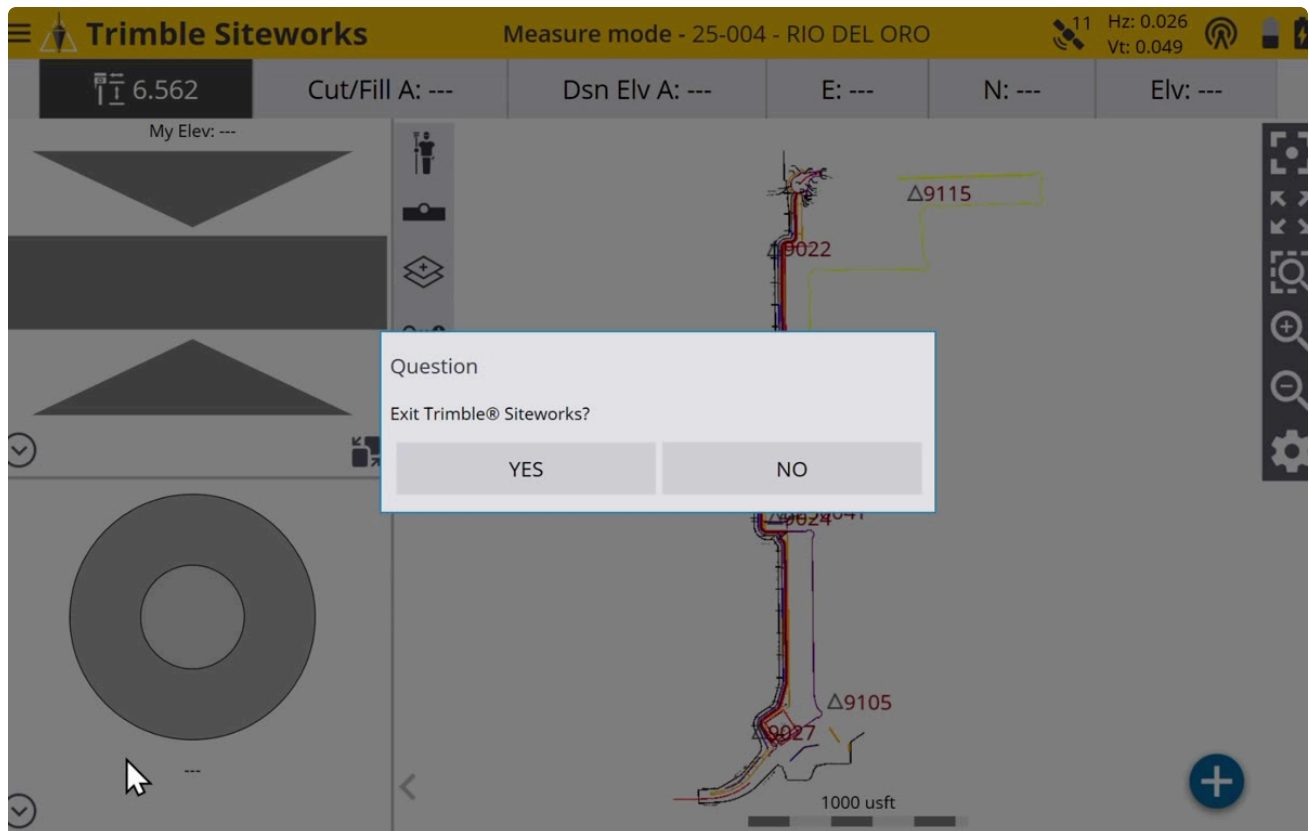
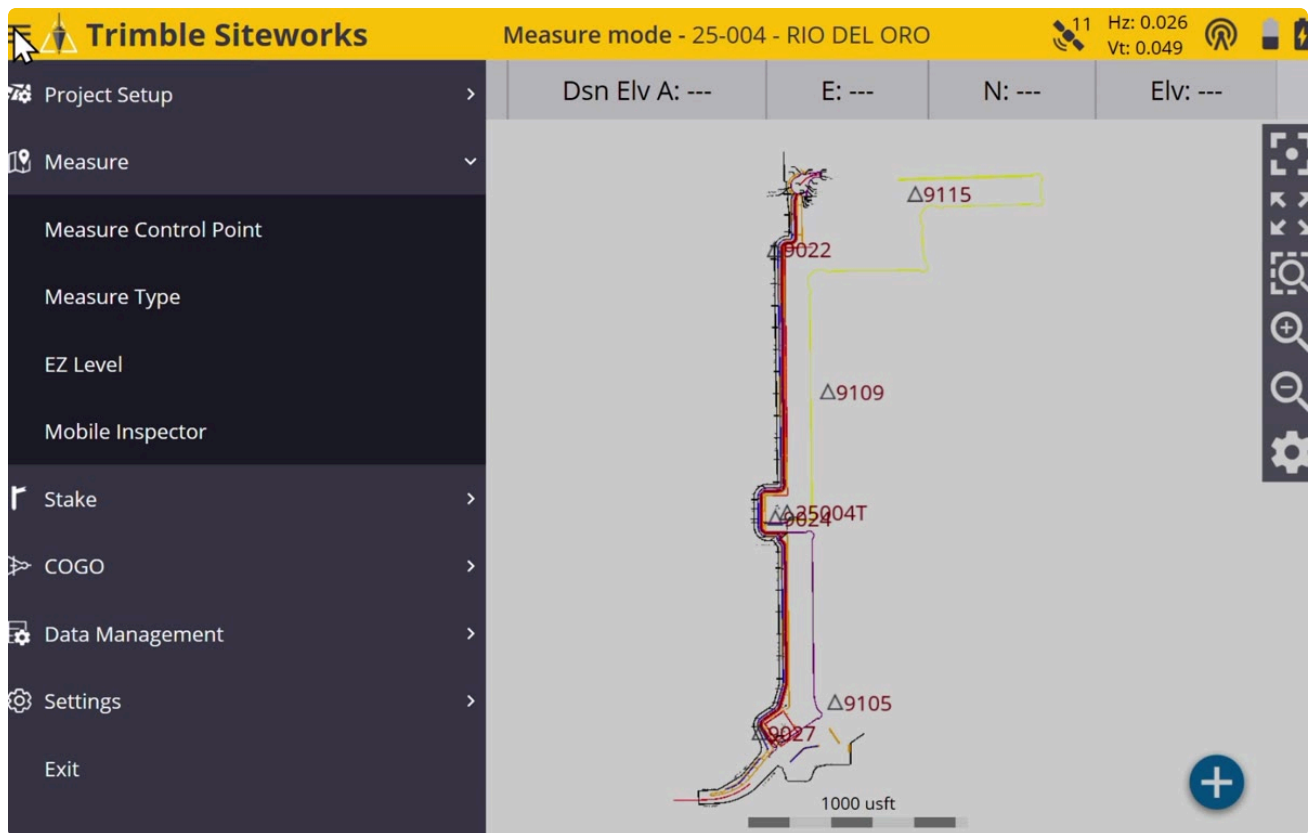
A Trimble site calibration (.cal) file holds a site's localization. SiteMetrix Grade and GradeMetrix can load it directly, so a job uses the same calibration the Trimble crew measured. This guide follows the 4.5-minute training video "How to use a Trimble site calibration file", using the project 25-004 - RIO DEL ORO.

Part 1: Get the .cal file from the Trimble controller

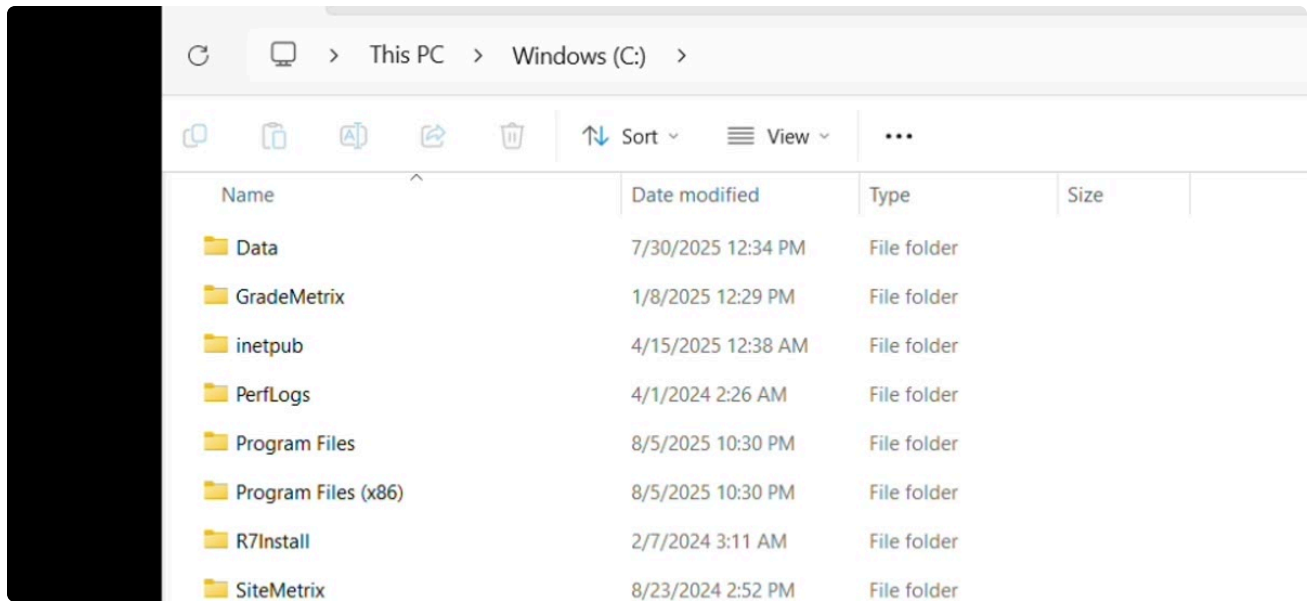
1. On the Trimble controller, Trimble Siteworks has the project open.



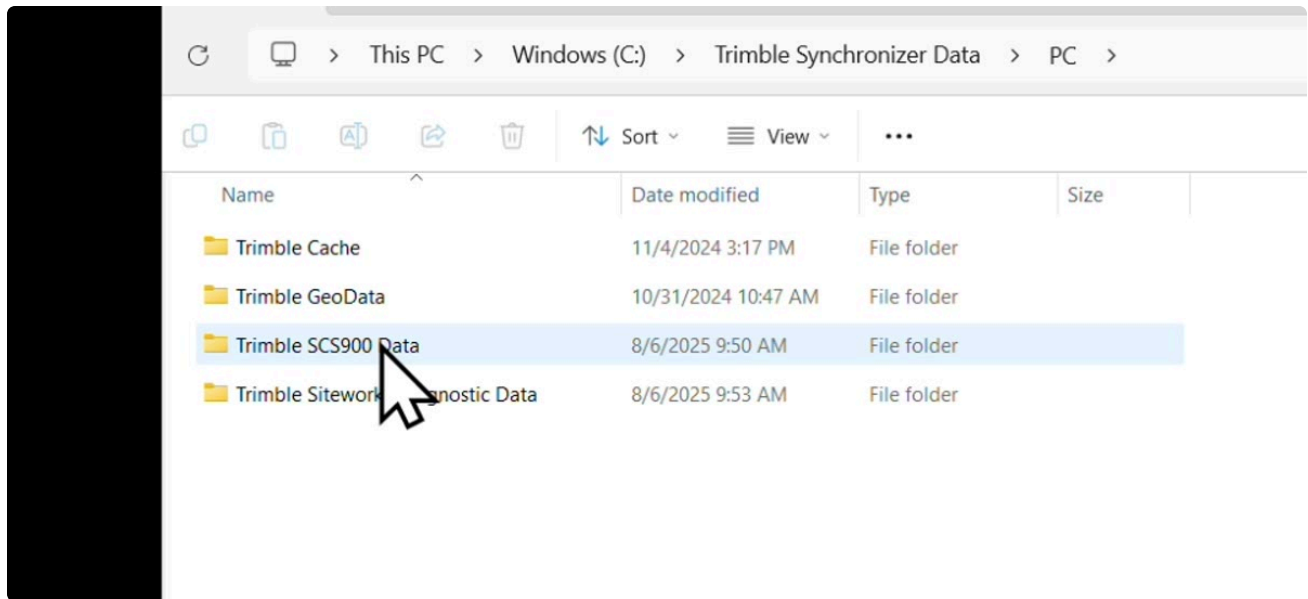
2. Open the menu and tap **Exit**, then **YES** to close Siteworks.



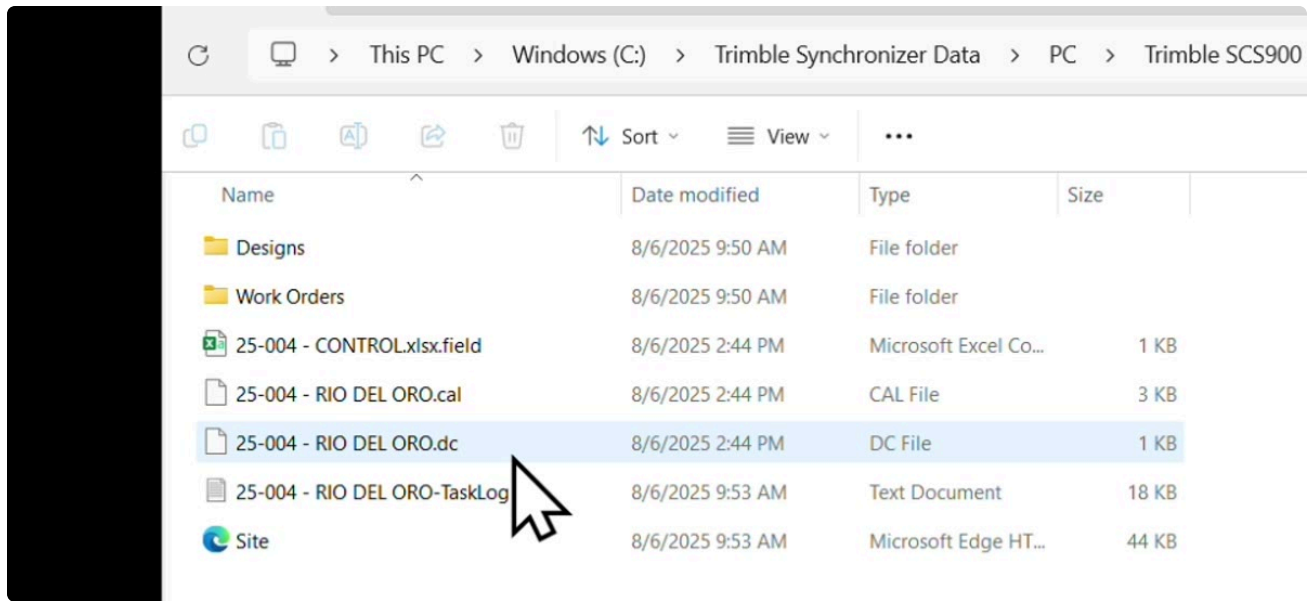
3. In File Explorer, go to **Windows (C:) > Trimble Synchronizer Data**.



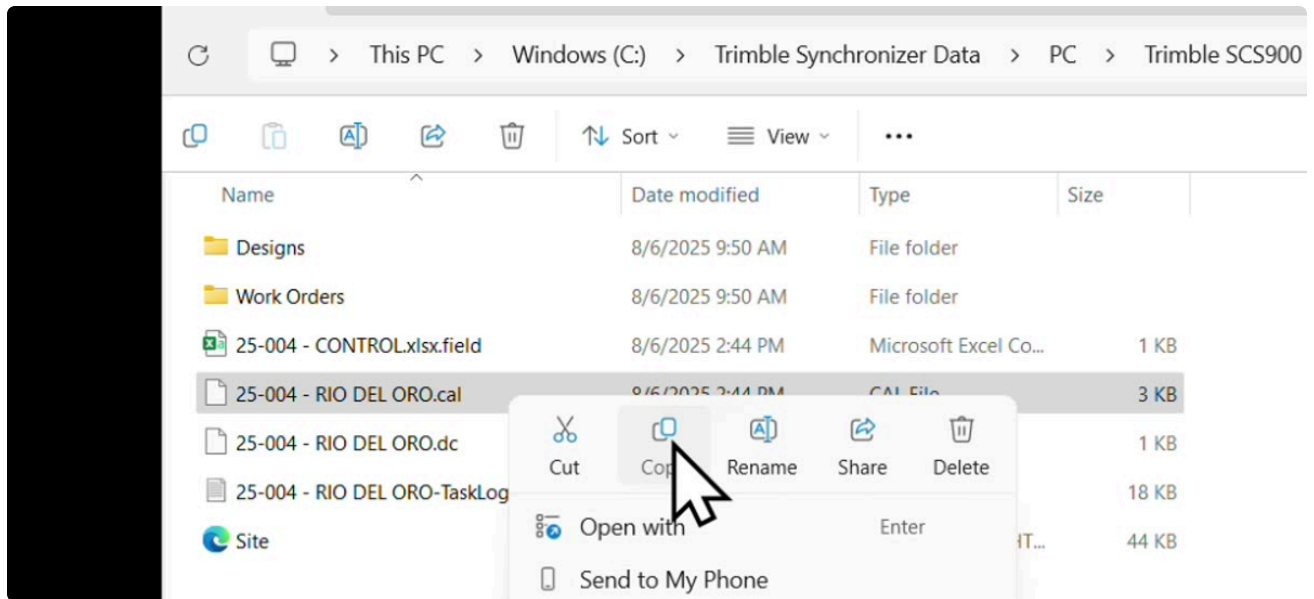
4. Open **PC**, then **Trimble SCS900 Data**, then the project folder.



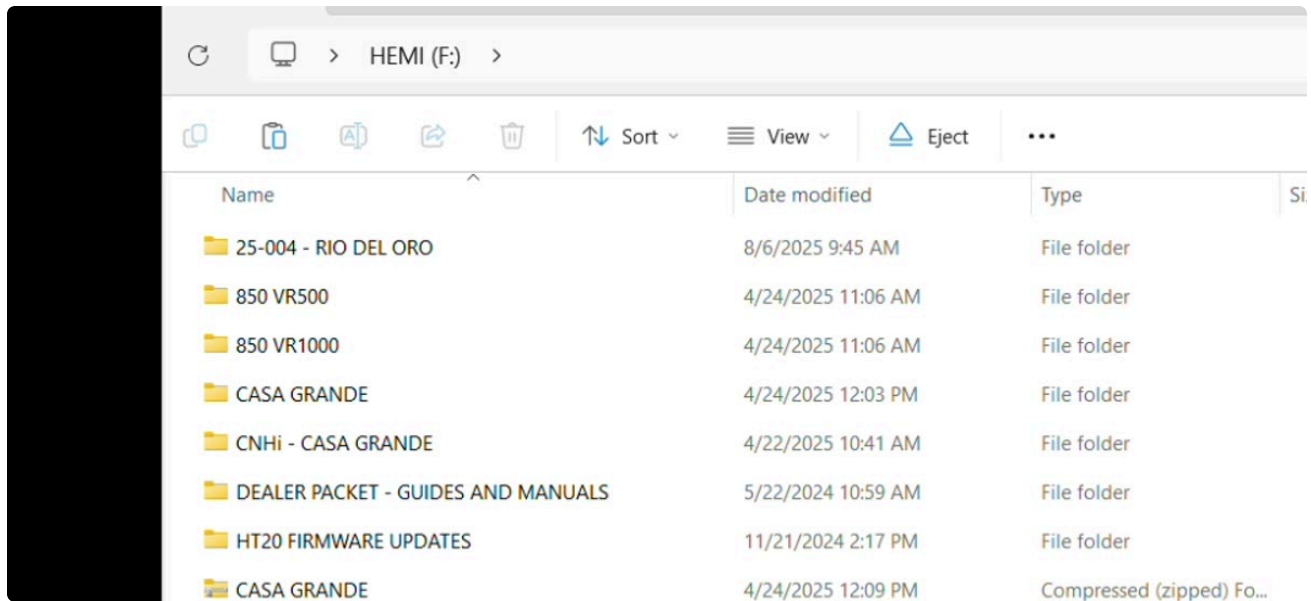
5. Find the project's **.cal** file (25-004 - RIO DEL ORO.cal, type CAL File).



6. Copy it.

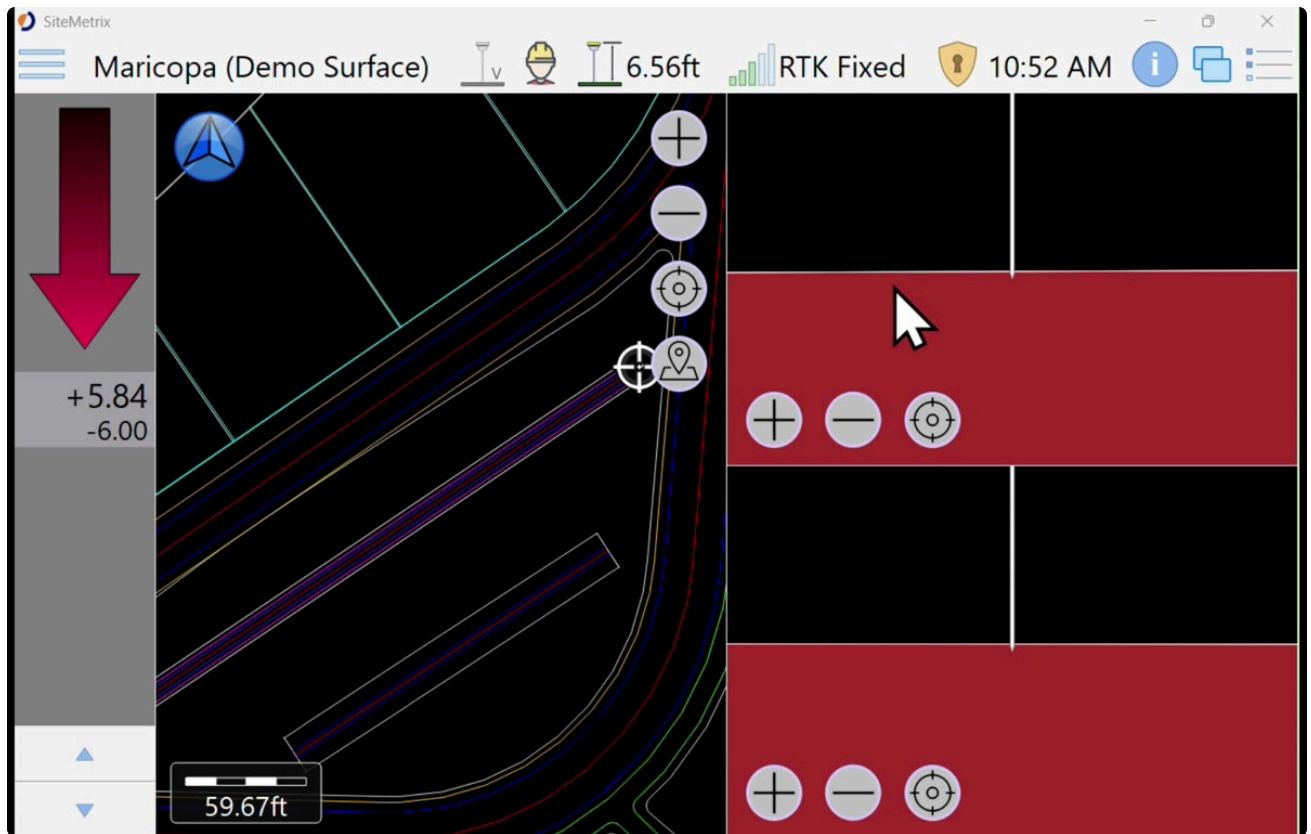


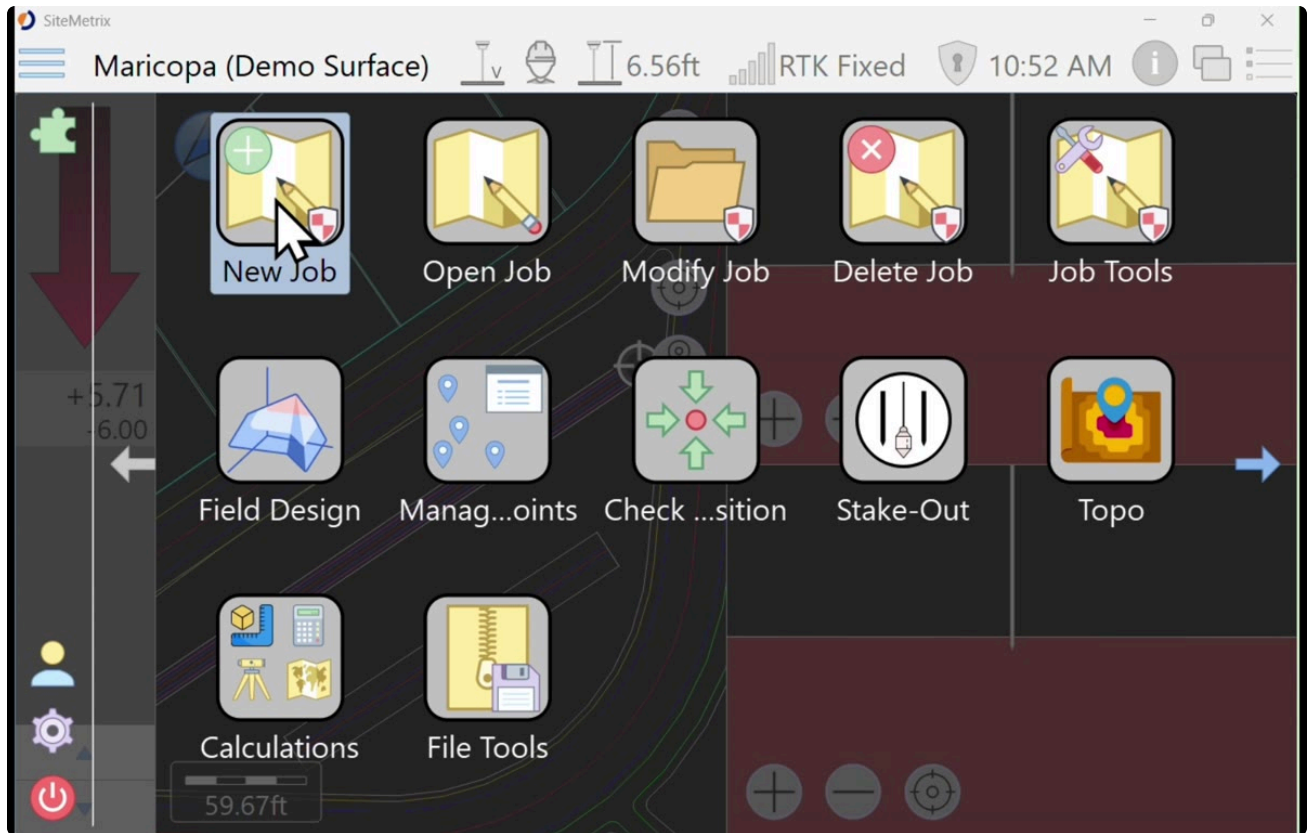
7. Paste it onto the USB drive (HEMI (F:) in the video), alongside the project's design files.



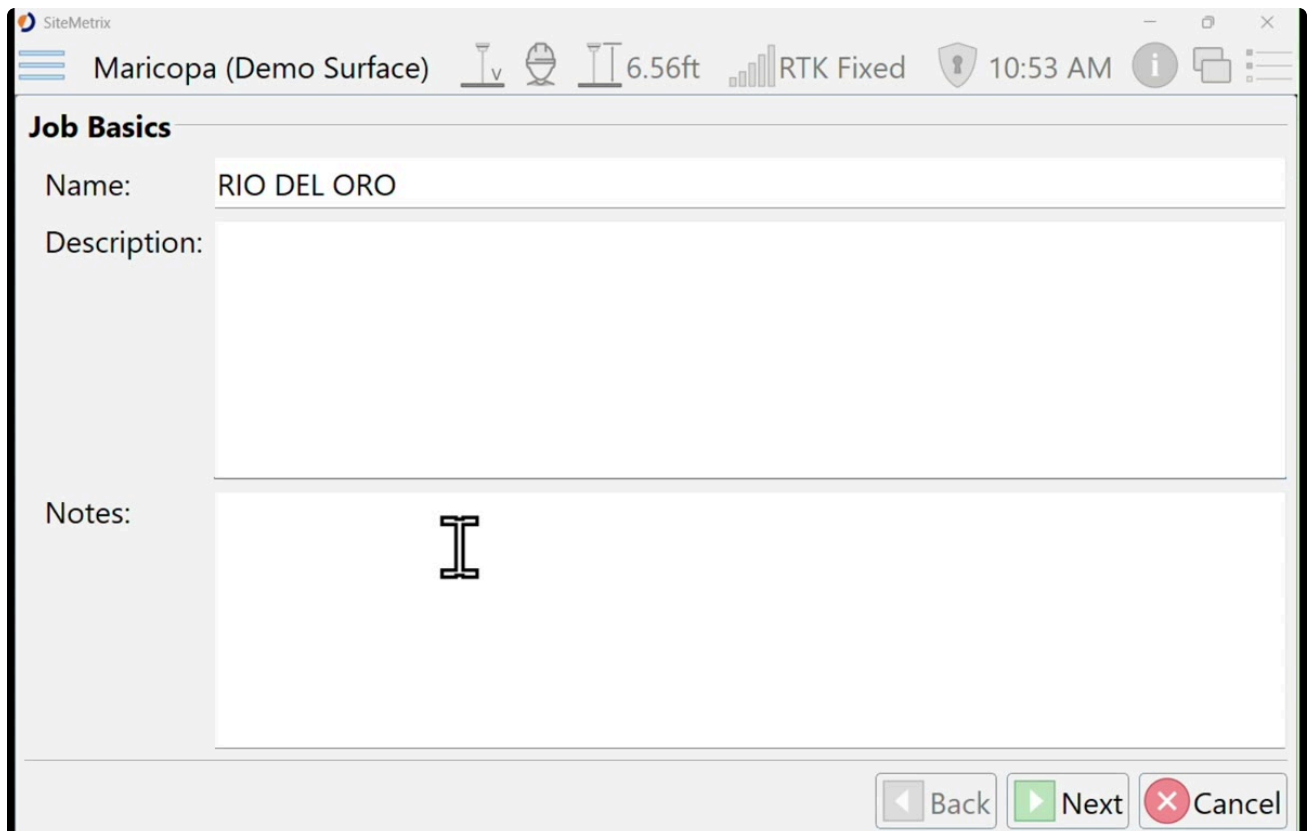
Part 2: Create the job in GradeMetrix or SiteMetrix Grade

1. Plug the USB drive into the terminal. Open the Main Menu and tap **New Job**.

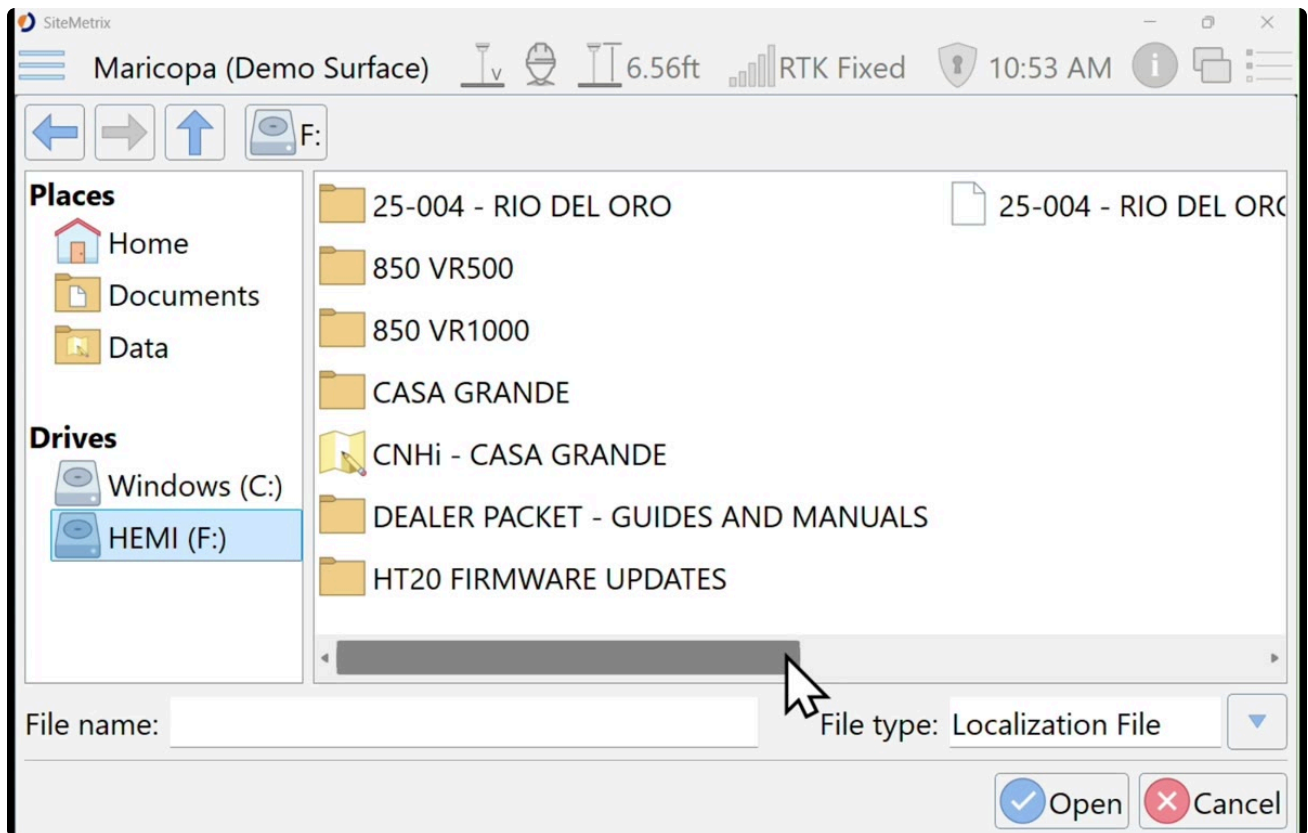




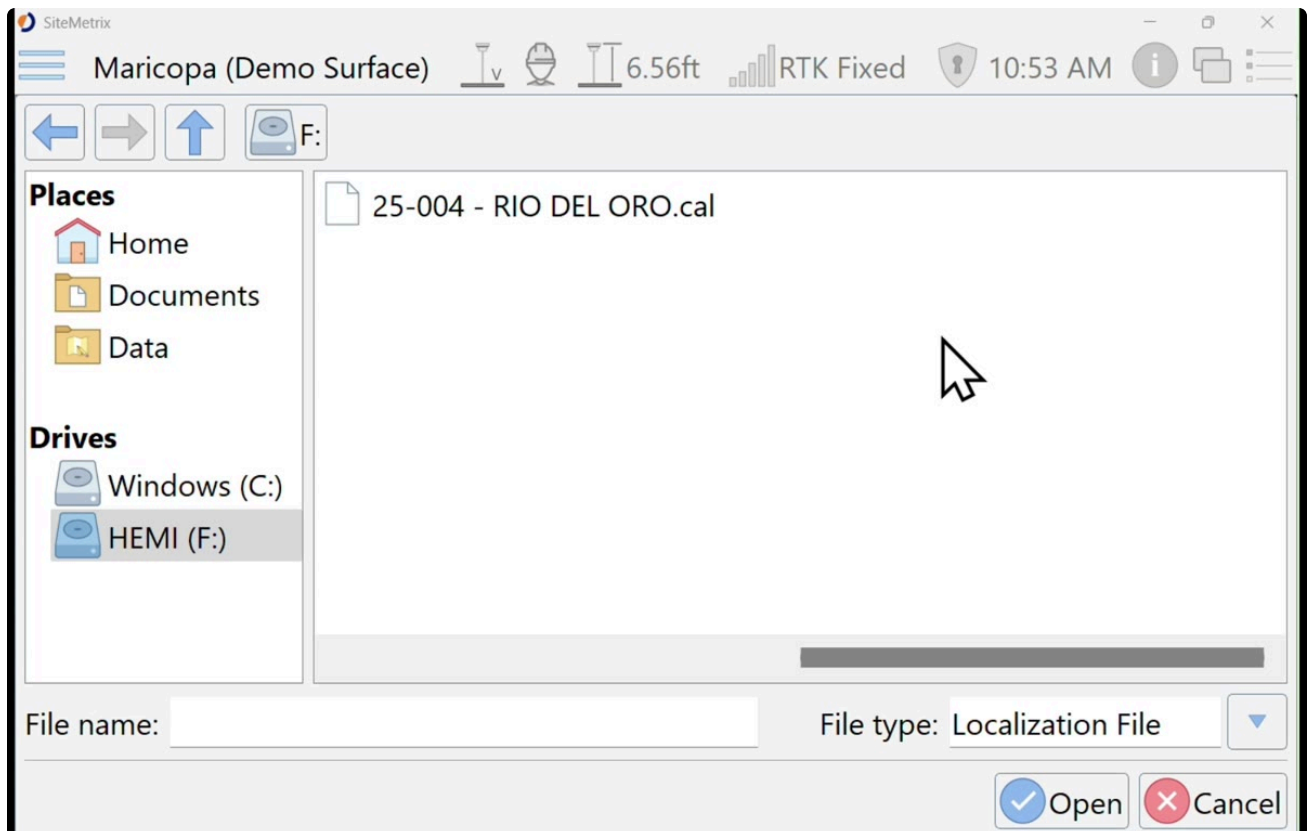
2. On **Job Basics**, enter a **Name** (RIO DEL ORO) and tap **Next**.

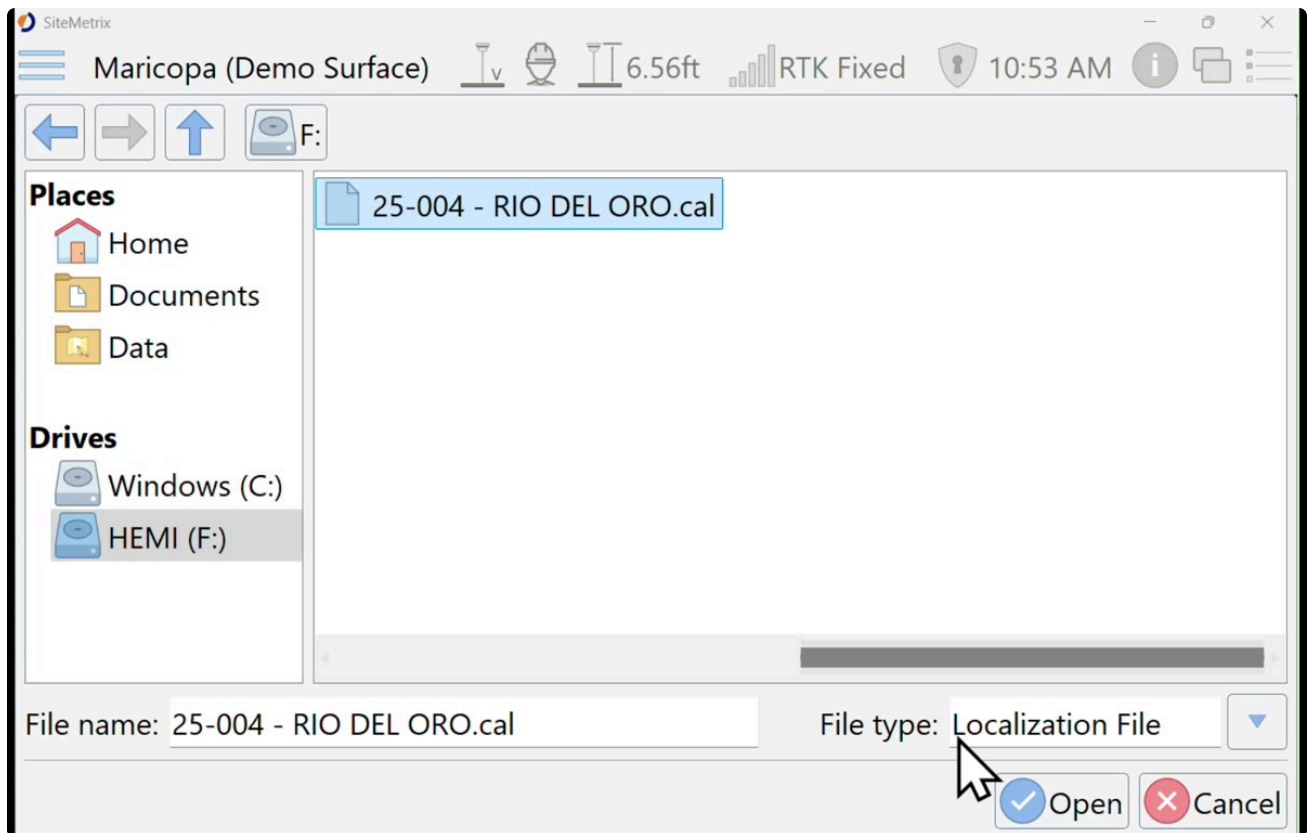


3. On **Job Files**, tap the document icon on the **Localization** row and pick the USB drive.

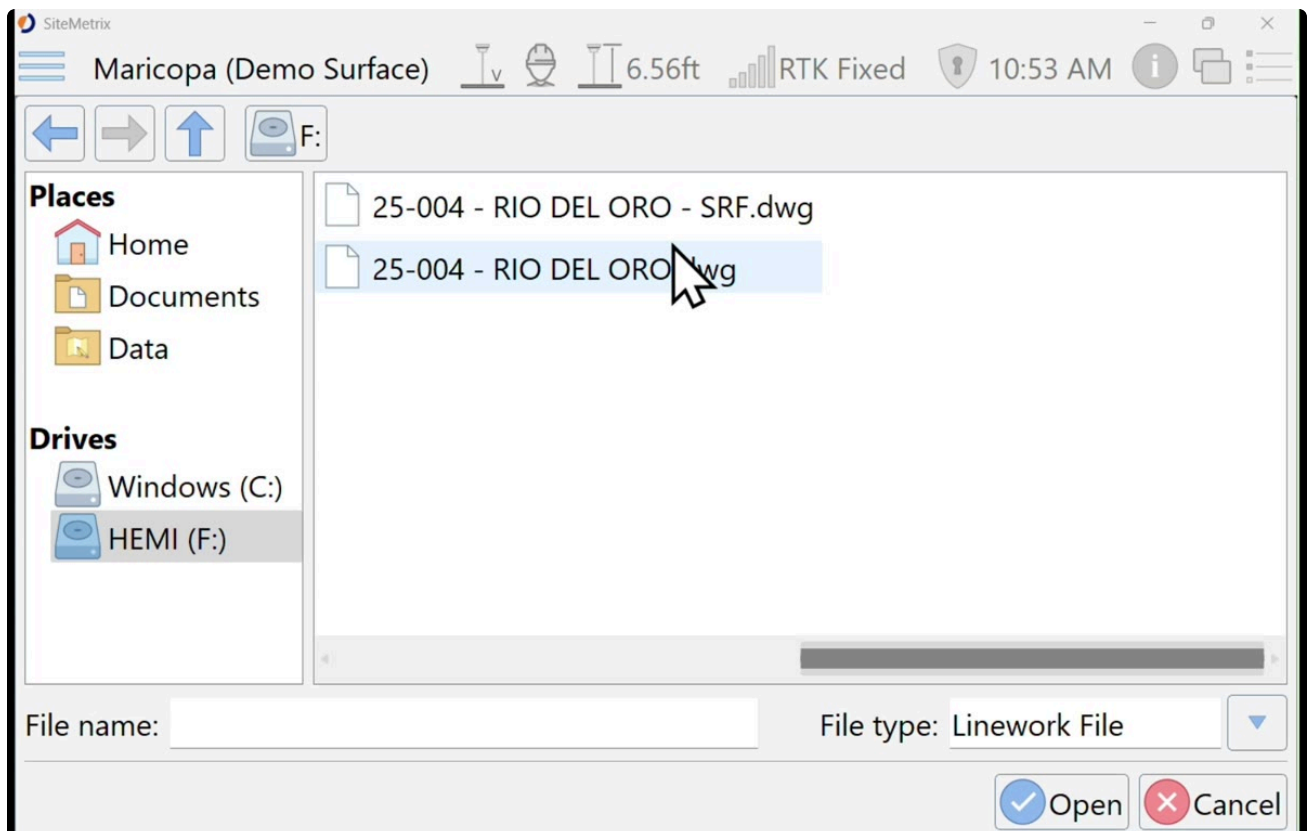


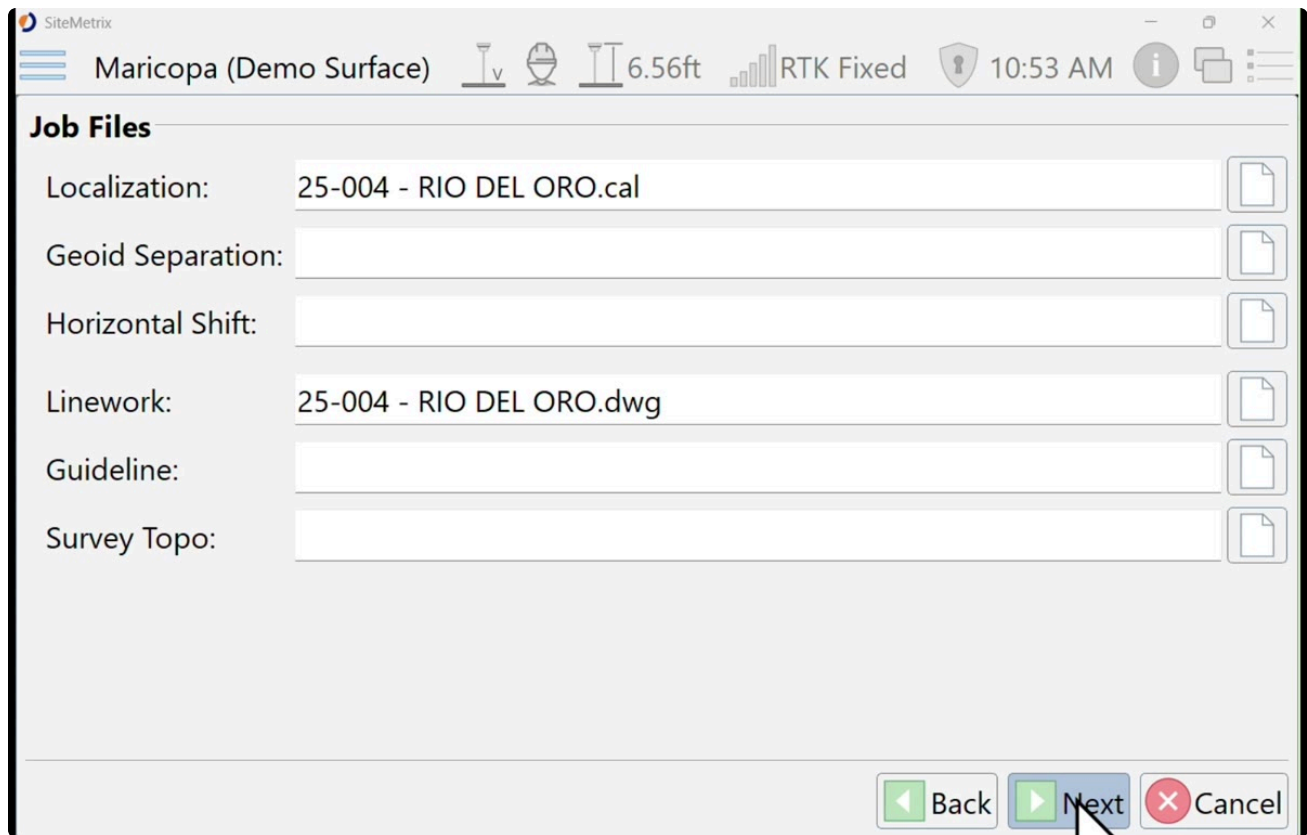
4. Select the **.cal** file and tap **Open**. It appears under the Localization File type.





5. On the **Linework** row, open the project's linework file (25-004 - RIO DEL ORO.dwg). Tap **Next**.





SiteMetrix

Maricopa (Demo Surface) 6.56ft RTK Fixed 10:53 AM

Job Files

Localization:	25-004 - RIO DEL ORO.cal	
Geoid Separation:		
Horizontal Shift:		
Linework:	25-004 - RIO DEL ORO.dwg	
Guideline:		
Survey Topo:		

Back Next Cancel

6. On **Surface Options**, tap **Add** and open the surface file (25-004 - RIO DEL ORO - SRF.dwg). Tap **Next** through Job Mapping.

Image — Selecting the surface file

7. On **Job Localization**, the control points from the .cal file are listed with their residuals. In the video all HRES and VRES values are under 0.1 ft. Tap **Finish**.

Image — Job Localization loaded from the .cal file

The job opens with the linework and design in the right place.

Image — Grade screen with the new job