

# Topographic Surveys

Prior to performing a topo survey, an existing point file must be selected or a new one created.

## Select an Existing Point File

1. Press the **Power** button on the display, then select **Data > Layers**. The **Project Layers** screen appears (Figure 4-10).
2. Select an existing point file, and select **OK**. The main screen appears.
3. Follow the steps in “Perform the Topo Survey” on page 4-7.

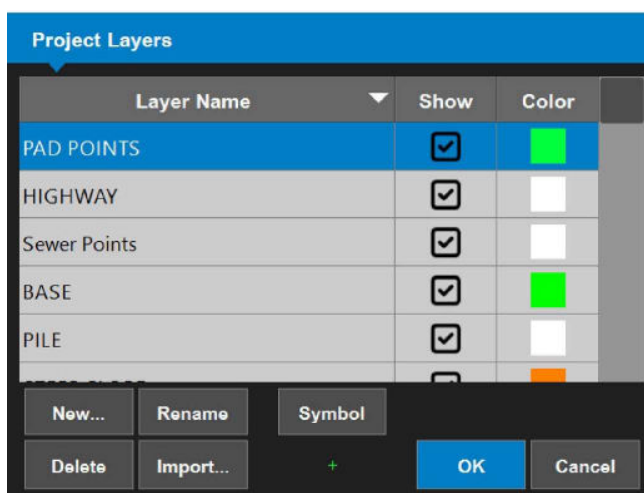


Figure 4-10: Project Layers Screen

## Perform the Topo Survey

### Show the Topo Shortcut Button

The topo shortcut button allows you to turn the topo survey on and off from the main screen of 3D-MC.

1. Press the **Power** button on the display, then select **View > Display options > Shortcuts**. The **Shortcuts Settings** screen appears (Figure 4-11).
2. Select the **Topo Survey Button** check box, and select **OK**. The shortcut button appears. If there is no machine set up in 3D-MC, the button icon will be disabled. Once a machine is set up, the icon will change to enabled (Figure 4-12).

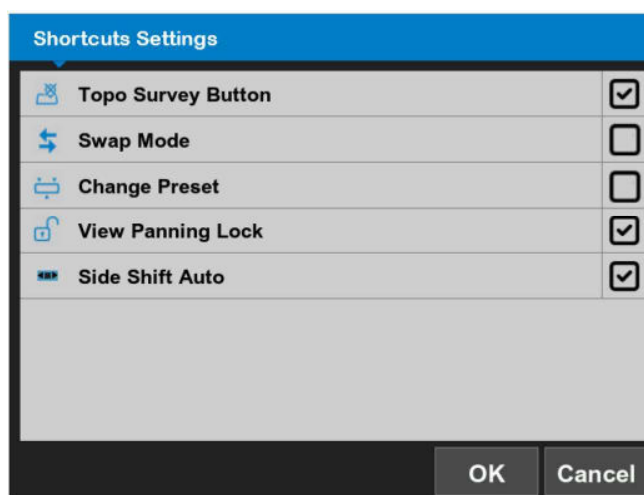


Figure 4-11: Activate Topo Shortcut Button



Figure 4-12: Topo Shortcut Button—Disabled/Enabled

## Set Topo Survey Parameters

1. Press the **Power** button on the display, then select **Tools > Topo survey**. The **Topo Survey** screen appears (Figure 4-13).



- 1 Green indicates that the auto topo is active.

**Figure 4-13: Topo Survey Screens 1, 2 and 3**

1. Enter or select the topo survey parameters for up to 3 unique surveys, and select **OK** to return to the main screen.



### NOTE

Entering values for **Lower elevations by** will add or reduce elevation from the measured points.

## Start Topo Survey

- If **Auto-Topo** is set to **Minimum horz. distance**, begin driving to the distance displayed. When the machine reaches that distance, 3D-MC will begin measuring and logging the data.
- If **Auto-Topo** is set to **Fixed time interval**, auto-topo will begin after the displayed interval.
- If **Topo button** is set to **Pause/resume auto-topo**, follow the steps below.
  - a. Select the **topo survey button** to start the topo survey. 3D-MC will indicate that it is resuming auto-topo (Figure 4-14).
  - b. To stop topo measurements, select the **topo survey button** again. 3D-MC will indicate that it is pausing auto-topo.

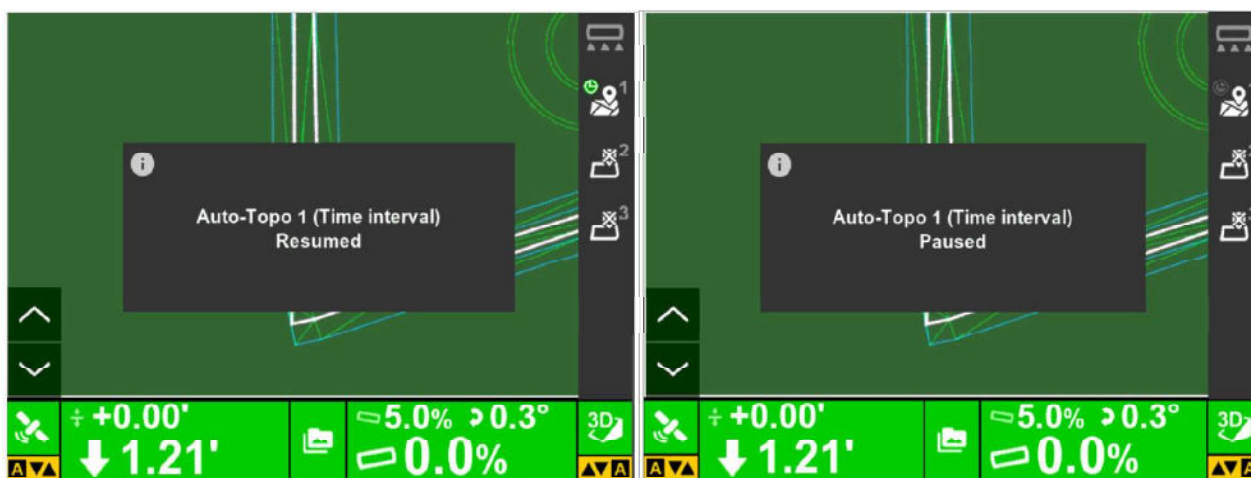


Figure 4-14: Resume/Pause Auto-Topo



### NOTICE

If auto-topo is not paused, 3D-MC continues logging measurements.