

T3RRA



Adjust surface (used to adjust a design surface)

March 2025

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‘Surface Adjustment’ allows you to make additional changes to the designs that were made in the layer creation.

The screenshot shows the 'Surface Adjustment' dialog box with the following settings and information:

- Apply adjustment to:** Boundary (selected), All region parts, Individual region part
- Fixed vertical offset:** -0.030 m
- Rotation axis [deg]:** 151.7
- Offset at tip point:** 0.020 m
- Tip grade:** 0.01 %
- Design Surface / Adjusted Part:**
 - Earth works details:**
 - Total area: 34.0 ha
 - Total cut area: 26.8 ha
 - Total fill area: 7.2 ha
 - Max cut: 0.13 m
 - Max fill: 0.09 m
 - Total cut volume: 11699 m³ (344.0 m³/ha)
 - Total fill volume: 1881 m³ (55.3 m³/ha)
 - Actual cut/fill ratio: 6.22
 - Surface compare:**
 - Elevation surface mean = 149.5 m
 - New surface mean = 149.47 m
 - New surface % area higher than original = 21.22
 - New surface % vol. diff. higher than original = 13.85
 - Plane setup:**
 - Maximum slope = -0.055%
 - Direction of maximum slope = 239.13deg. (Southwest by west)
- Buttons:** Show cut/fill surface, Apply adjustment, Reset adjustment, Close, Cancel

- ‘Vertical offset’ which can be adjusted with up and down buttons at 0.01 increments or by typing in a set value to shift the design vertically up or down.
- ‘Rotation axis’ This can be adjusted by typing in a value, using the up and down buttons or by using the yellow dot that appears in the working area.
- ‘Offset at tip point’ works in conjunction with the ‘Rotation axis’ setting to make the changes along the set point.
- The bottom portion of the window displays information about the whole design surface and the adjusted part, including a comparison to the original elevation surface.

As you make changes, the cut/fill map will automatically adjust accordingly. Once you are done changing it, you need to accept or reject it by pressing either the ‘Apply adjustment’ or the ‘Reset adjustment’ button at the bottom.