

Reveal 1.6 Readme Notes - Transform

1. Added AutoAlign to the Alignment page. AutoAlign requires text recognition to be run and can also benefit from the elevation of labeled contours. It does not work in all cases because it depends on finding unique geometry and elevations in the overlap. In cases where it cannot find enough or does it incorrectly, use undo and use the manual snap modes for alignment.
2. Improved Text recognition and Spot elevation recognition.
3. Exported Gradework files (.esx) now include the link back to the original PDF sheet when used in Gradework
4. Improved Merge and overlaps in Review
5. Improved dashed join. When using, pick more dashes as samples and then check connectivity. If it does not give the desired connectivity, undo first and then pick more or different dashes.
6. Improved, interactive forced Join. When force joining the visual feedback of what will join is more obvious and does not require a right-click or pressing the checkmark
7. Added Hide and Show All too many toolbars to make selection easier
8. Area select now select any data that falls within it if dragged from lower right to upper left. Upper left to lower right only selects data completely inside the rectangle
9. Added Selection modes as tools for easier sorting of layer data into the correct categories. The default will vary by mode. The selection modes are:
 - Select by layer - this selects everything in the layer and is often the default mode.
 - Lines - Selects just individual lines. Area select in this mode can select multiple lines.
 - Source Layers - This mode reverts back to the layers that were originally imported. The chief use is when you've accidentally combined layers the wrong way and it enables you to fix the mistake
 - Text - for selecting individual extracted or embedded text by text string rather than by entire Layers
 - Path - PDF files can break down vectors by path as well. This exposes selection by path as an option. Use of paths will vary from PDF to PDF
 - Segment - Segment allows selection of individual pieces of lines. The principal use is select of a line piece that might connect wrong and deleting that segment in either Join or Clean modes.
10. Improved the elevation filter on extracted text
11. Improved the extraction of embedded text from PDFs
12. Added the Clean Guide item because of the automatic contour elevation and interpolation. The tools in Clean are designed to make it easier to remove anything in the Contour layers that isn't a contour so an elevation doesn't get assigned. Clean only operates on a single page at a time. Clean tools include:

- Hide/Show all - Often the easiest way to remove objects that are not contours is use area select (points inside, lower right-upper left) to select the contours and hide them for easy elimination of non-contours. Breaklines can be moved to lines and errata like vegetation, etc can be moved to ignore
- Straight lines - This highlights with a length control slider, straight lines by length since quite often they're not contours. It's particularly useful for getting rid of hatching by the designer. Use the slider to control what's highlighted and then often assign it to another layer
- Polyline points also has a slider and is usefull for selecting contours enmasse to hide them and then area select and assign the non-contours
- -Square corners - select just that. Usually used for existing lot outlines, symbols like utility boxes, etc.
- Force Join - The same capability that we have in join. When cleaning up contours it can be handy to force gaps closed.
- Delete Segment - The same feature we have in Join but useful if connectivity isn't quite right. To use, change the selection mode to segments and then pick the segment you wish to delete

13. Added Assign Contour elevations button to the Align Sheets page. This reads the assigned contour text and elevates the contours to that elevation. This helps with Auto Alignment.

14. Next to Assign Contour elevations is the Show Elevation Status button. This automatically displays after Assign Contour elevations to show which contours were elevated.

15. Review adds a Validate and Assign Intermediate contours button. After merging sheets and joining, running this button looks at the assigned contour and then calculates what any unlabeled contours should be while also validating that the intervals appear correct..

16. The Review-Show Elevation Status button turns all non-elevated lines gray and when the cursor moves over elevated contours it shows the assigned elevation in the lower right corner.