

## **Static Cross Sections (Cross Section Sheets)**

See [here](#) for changes to make in cross section preference options. To generate static cross sections:

### **Create Stack:**

1. Create a cross section file. (d#####xs or likewise)
2. Reference the d#####des file (or other file with corridor model). If the existing ground is not showing up, you may need to make it a direct attachment, or change the nesting depth in the Seed2D-3D model, and/or set it as the active terrain model. Same considerations for existing pavement if set up as a surface template.
3. Use the "Create Cross Section" tool under Corridor Modeling. Recommend generating the stack file, then Geopak to create XS Sheets referencing the stack. Then, changes and adjustments to the sheets will be independent of the cross sections themselves.
4. Select "Geopak Stack" under preferences. Make sure to check the interval (25' or 50'). Change the offsets to be as small as possible (75' or 150') for best results. 500' will cause large gaps between sections in the sheets.
5. If you don't want gridlines on your stack XS, go to Controls>Grid to uncheck.
6. Check the Model Name under General. If the model already exists, it will add \_1. (So you have to delete the model if you want to overwrite old cross sections).
7. Hit apply.

### **Annotate:**

8. Use the "Annotate Cross Section" tool under Corridor Modeling. Select 5\_Sc or 10\_Sc under preferences.
9. Make sure the correct surface is selected. Apply.

### **Draw Right of Way:**

10. Use the old Geopak-Proposed Cross Sections to draw ROW. Make sure the XS model is open in the XS file, and that the Pattern-By Station matches exactly the stack cells.

### **Create Sheets:**

11. Use Geopak to create sheets referencing the stack file. Be sure to set the Element Search Criteria to include relevant named levels. Again, make sure the right model is open in the stack file. If cross sections are being drawn too few on a sheet, "Maximum Vertical Size" may need to be modified.