Extracting a Single Cross Section

To draw a cross section at an intermediate station, as necessary or requested by others:

1. In the d######des file: "Create Key Station" to insert a key station at the desired location. This step is not necessary, but insures that the cross section will be accurate and will tie to the existing ground.

2. In the d######xs file: "Create Cross Sections" tool. Select alignment.

3. Select VDOT XS 5 or 10 under Preferences. Choose "Single Station" and enter value.

4. Change model name to something unique (include station perhaps).

5. Annotate the created cross section sheet.

Construction Limits

Option 1: Explode cross section pavement shapes in stack file. Run geopak construction limits.

Option 2: Make a copy of the file with the Corridor Model in it. Explode the Corridor Model outline into line strings. Manually change the line styles of the former corridor outline into cuts and fills.

VDOT is working on setting up a feature option so that this will be drawn the construction limits in plan view correctly based off of the catch points in the template, at the same time a VBA is being written to place the cut and fill symbol correctly on the plans.

Tips

- Keep in mind: It is difficult to copy alignments and profiles between files, and even more difficult (perhaps impossible) to preserve handles (design intent/adjustability).

Troubleshooting and Tips
Templates not behaving as expected

- If modifying the template library, **did you synchronize the template drop?**

- Are linear features added as External References?

- When using template points, make sure the Range for the Horizontal feature constraint (Edit Point) is far enough out to be detected.

- Seam line not working right? Make sure every component in the template has a parent.