Terrain Model (Existing Terrain)

Creating a Terrain Model from a .TIN

Some Projects have a terrain model already in the SDT file that could be used in OpenRoads. The CADD section is working with the Survey Section to get the terrain model incorporated into their deliverables. On most projects you will need to create a terrain model in its own file since one does not already exist. All you need is the TIN file.

- Create an empty file using a new seed3D call ***d######tin***
- In the Terrain Model toolbar, click "Create From File"
- Find the correct TIN file
- Set Source File Units to Feet or US Survey Feet (check project)
- Set Feature Definition to Terrain Display>Existing_Contours-1-5
- Set Import Options to "Import Terrain Only"
- Click Import
- Save file and reference to design file

Check if the contours match the TIN file. Sometimes it will not. In this case, use Load DTM Features in Geopak to draw triangles and the TIN hull, and then create a terrain model from elements using the mesh as soft break lines and hull as a boundary.

Corridor Re-associate

There is now an option in OpenRoads that will allow users to change or re-associate horizontal and vertical alignments. At the MicroStation Key-in, key-in "Corridor Reattach" and follow the prompts:

- Locate Corridor
- Locate Corridor Baseline (your new alignment)
- Locate Profile Element You will then see your corridor modified in your plan view.

There is a YouTube video available on this issue.

http://communities.bentley.com/products/road___site_design/w/road_and_site_design__wiki/29671.re-associate-horizontal-and-vertical-alignment-in-an-existing-openroads-corridor