TIN Manager & Surface TINs

Tim Cashman, PE
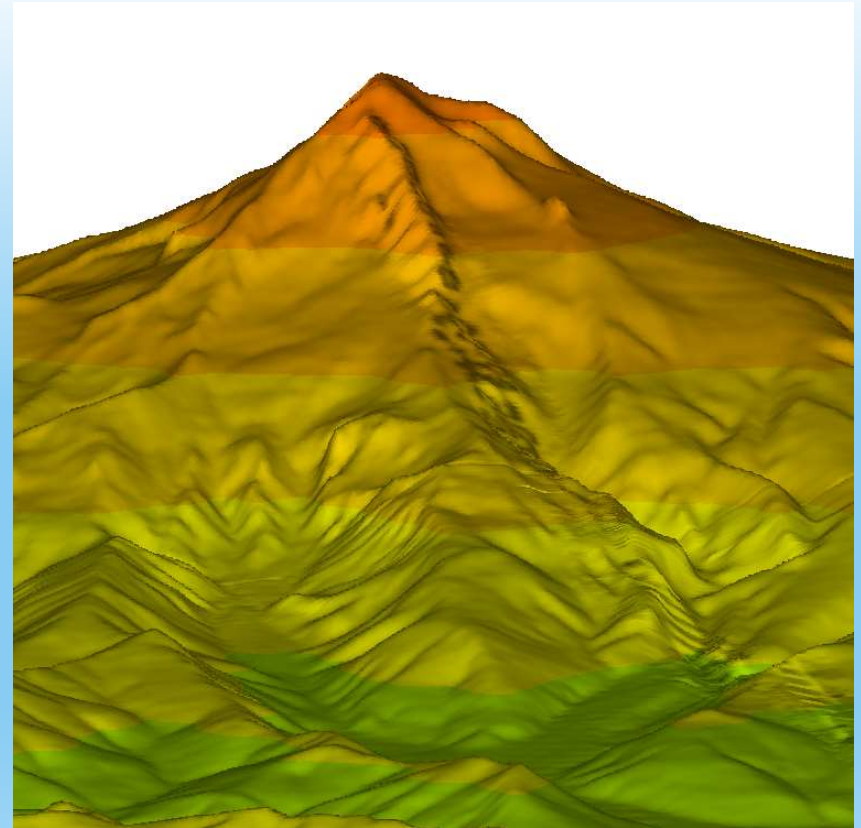
POWER LINE SYSTEMS
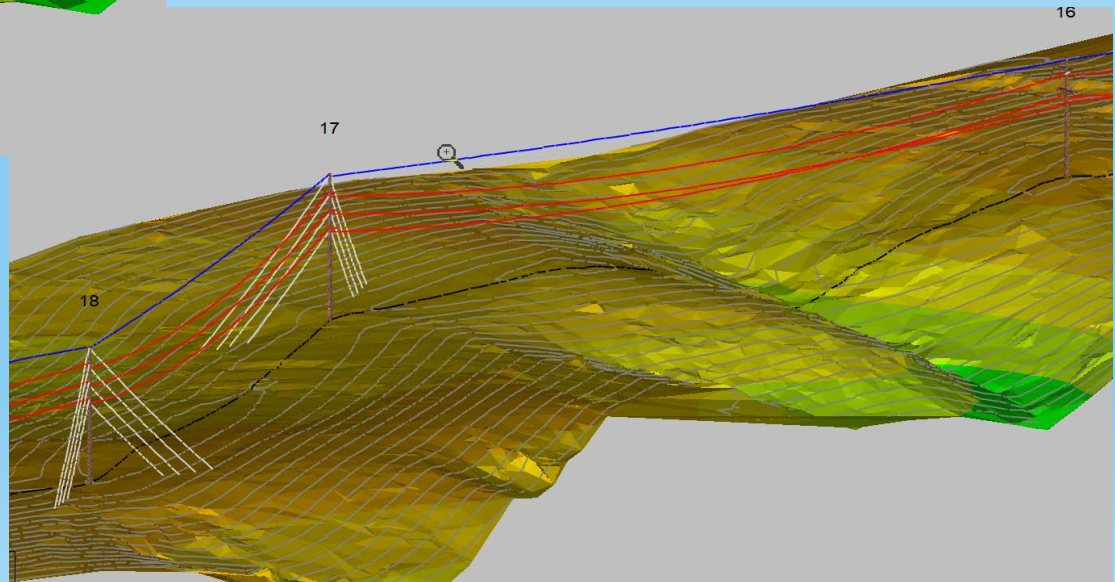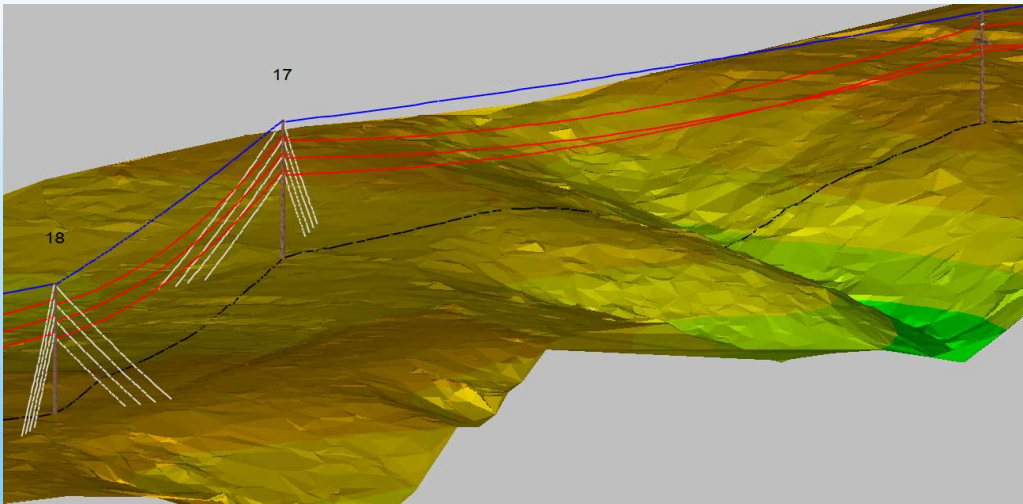Part of Bentley Systems

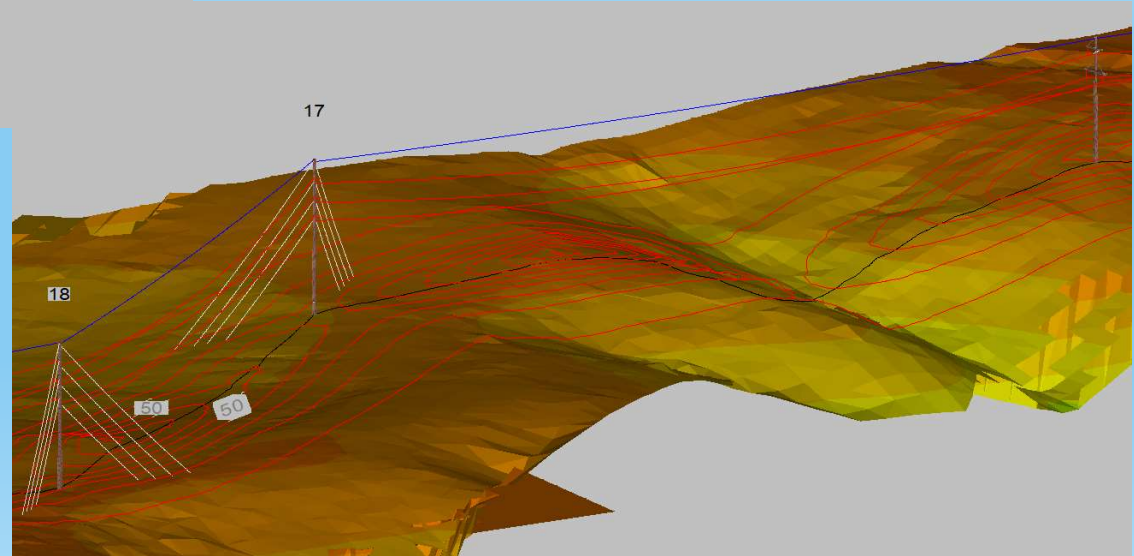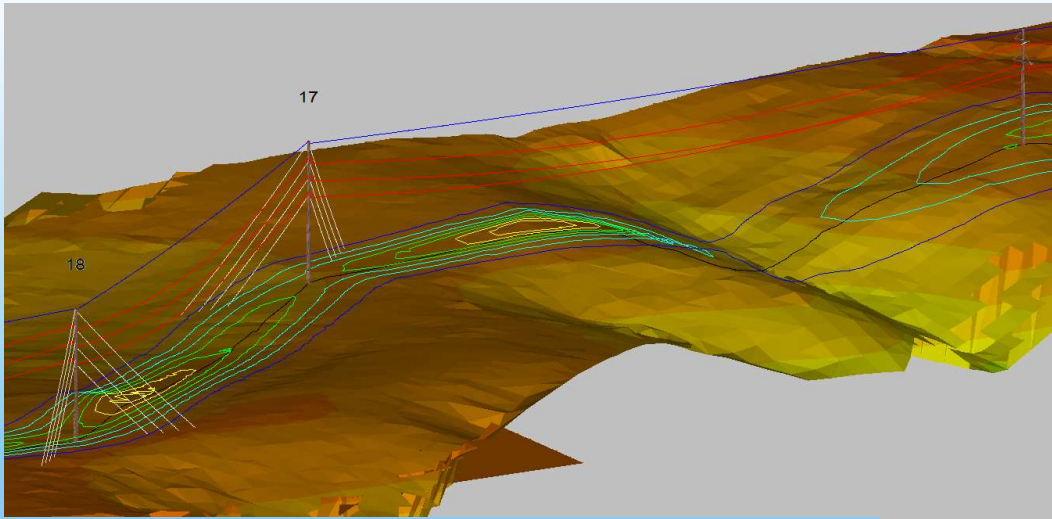Bentley®

TINs in PLS-CADD

- There are nine (9) different types or variations of TIN models in PLS-CADD

- Each has its own purpose and they are created from different commands

- Not all TINs were saved with the PLS-CADD model and some had to be recreated in each new PLS-CADD session
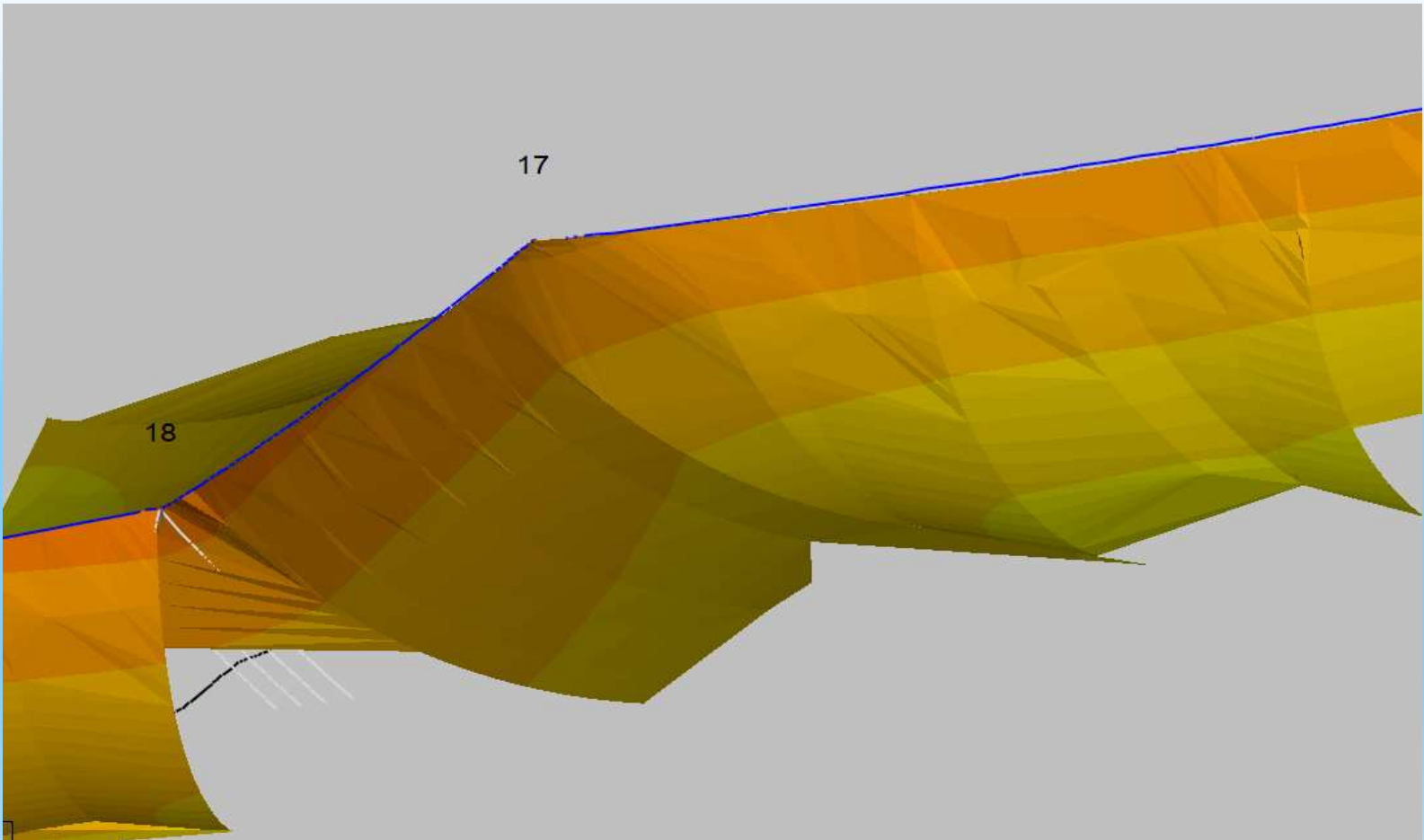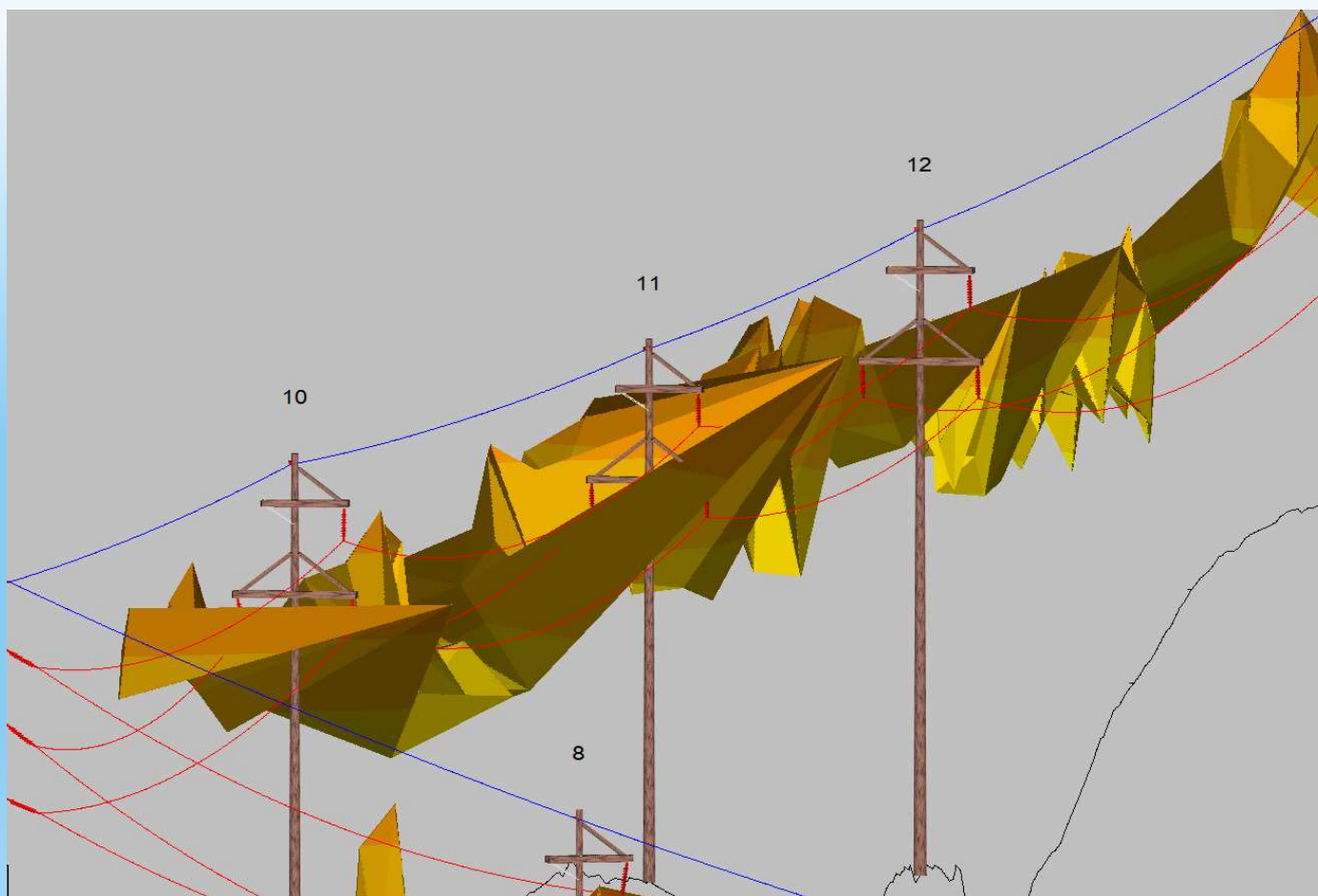
- There must be a better way

Ground TIN and ISOTIN
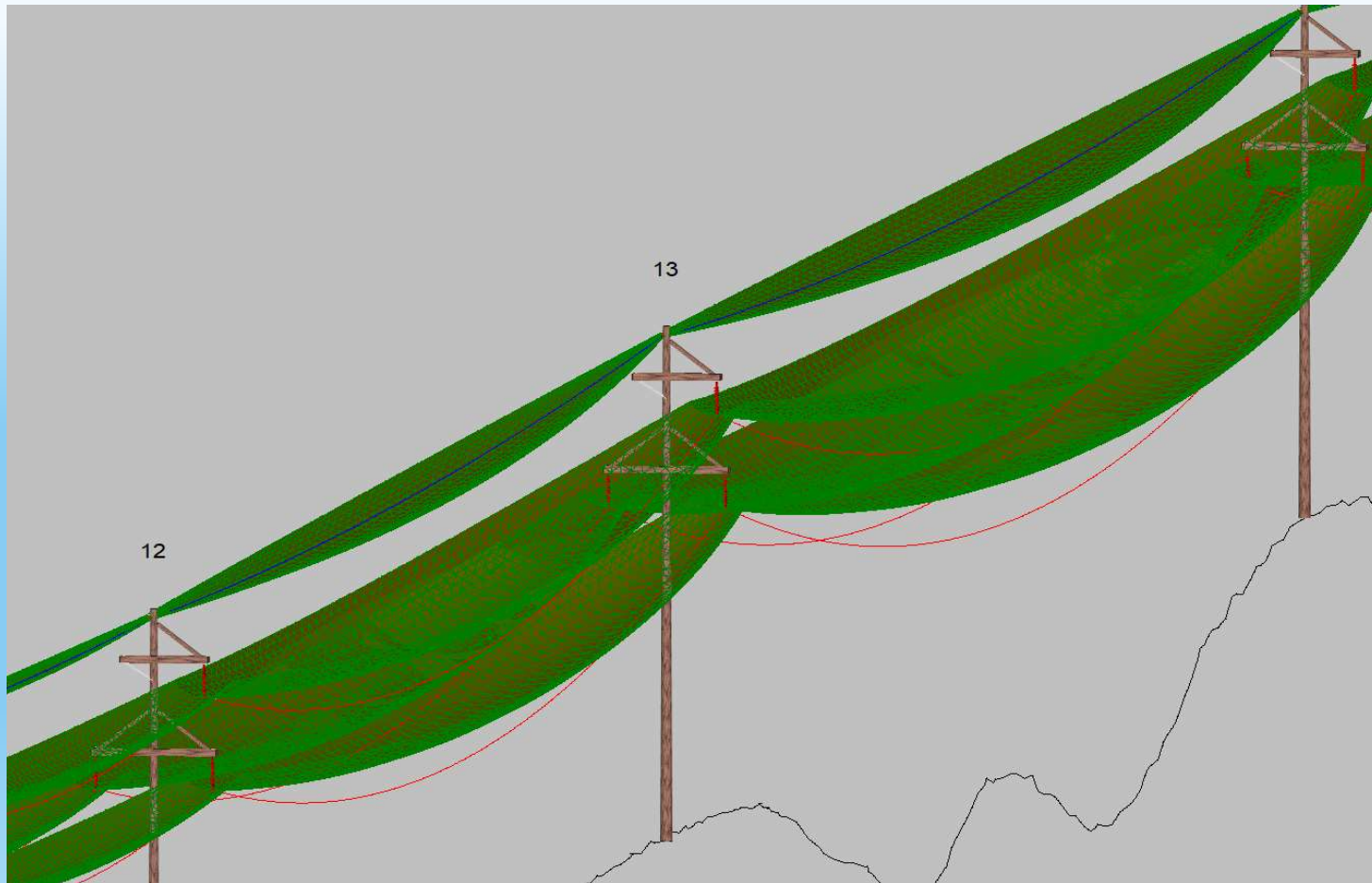
3D Electric and Magnetic Field TINs
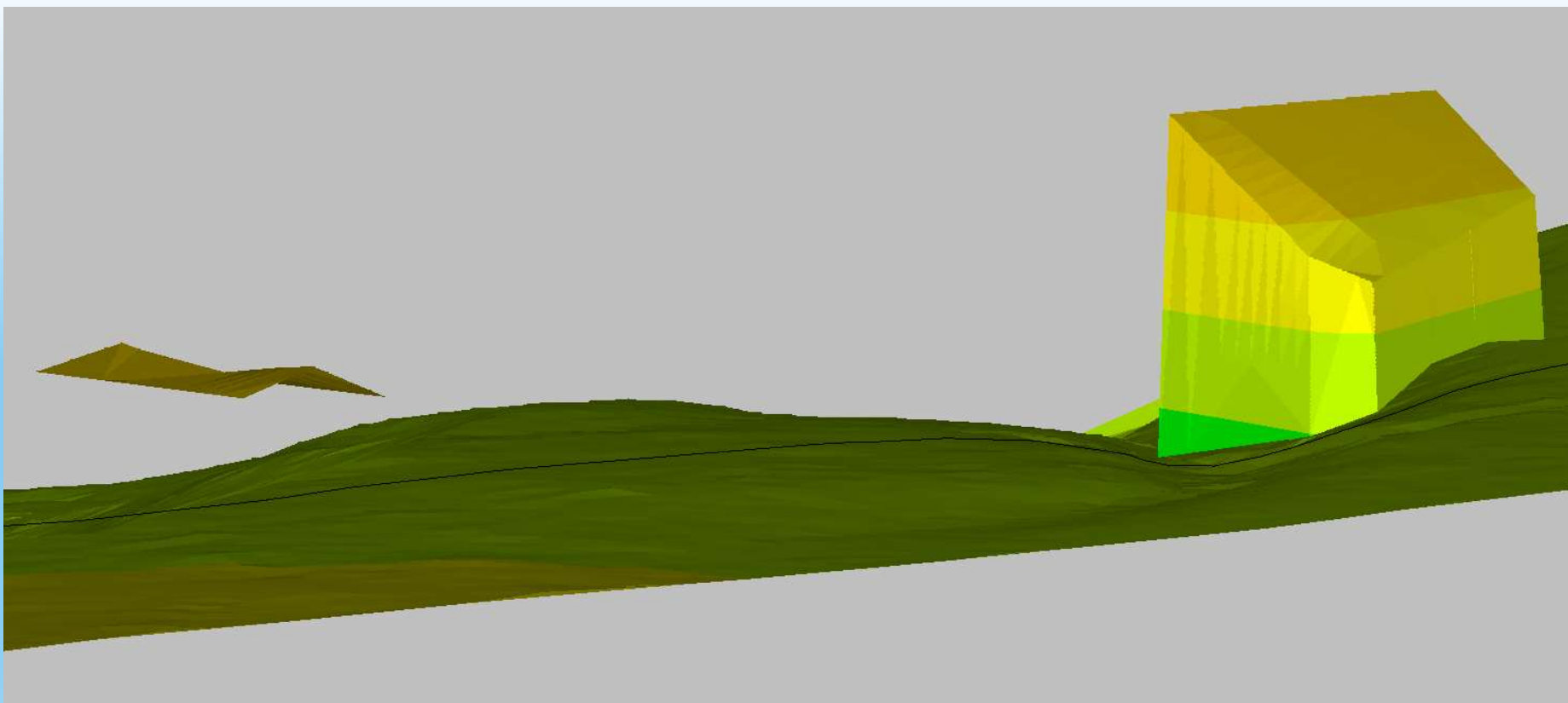
Lightning Protection TIN

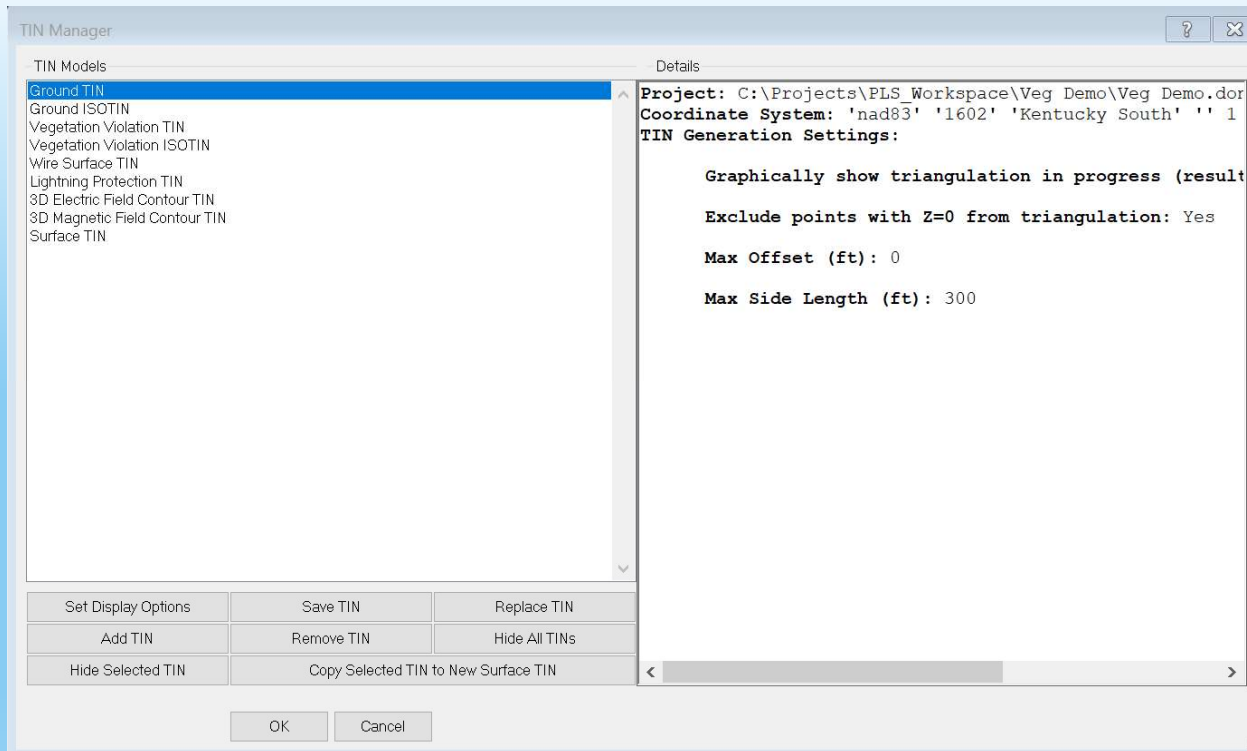# Vegetation TIN and ISOTIN

Wire Surface TIN

Surface TIN (New)

TIN Manager Dialog

- Introduced in v18.00 (May 2023)

- Provides a single dialog to manage all types of TIN models generated by PLS-CADD

- Built with capability to manage multiple TINs of the same type

Surface TINs in PLS-CADD

- Currently in Insider Release version and will be available in v20.00

- Allows for creation of a three-dimensional TIN based on ground or non-ground survey points

- Surface TIN can be alongside, under or above the structures and wires

- Surface area options include Canopy TIN or Full TIN

- Display options same as for other TINs

- Can define minimum clearance to surface TIN

- Break lines are currently ignored for Surface TINs

Clearances to Surface TINs

- Use Survey Point Clearance report to check clearances to Surface TIN

- Supports all existing SPC clearance functionality, including:

  - Rectangular and radial clearances

  - Single or bundled conductor options

  - Jumpers and separator cables

  - Structures and circuits

  - Reports and markers

Demonstration