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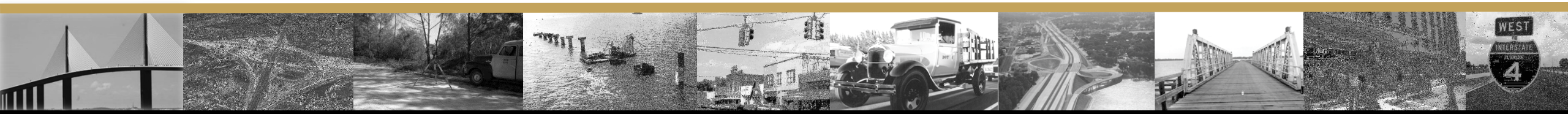
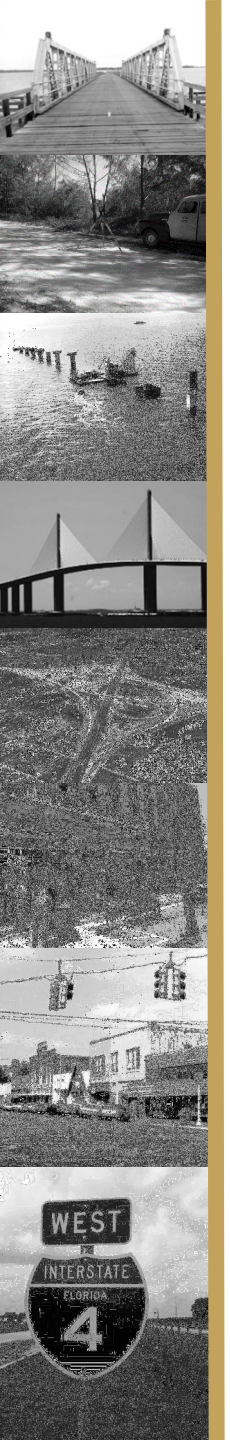
Plans Development Overview

Denise J Broom
Engineering CADD Systems Office



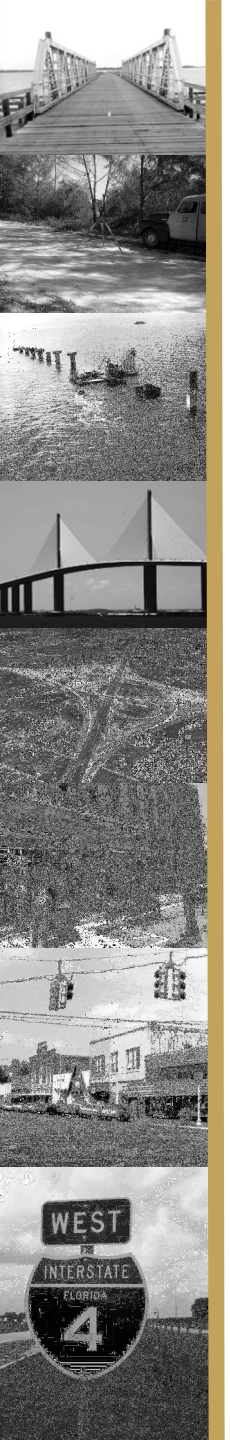
Centennial FDOT 1915 ★ 2015

Celebrating 100 Years of Innovation, Mobility and Economic Development



Objectives

- What's New? What's Not?
  - Key Sheets
  - Summary of Quantities Sheets
    - LDM Enhancements
  - Plan/Profiles
    - Alignment & Profile Import/Export
    - Live Nesting
  - Cross Section Workflow
    - New workflow for existing features
    - Delete Duplicate Tool
    - New workflow for creating cross sections



What's New & What's Not…

Not…

- Most of the Plan Production tools have not changed…
  - Sheet Clipping Tools
  - GEOPAK Labeler
  - Ancillary Features
  - Borehole Navigator
  - D&C Manager
  - Etc…
- Still need the GPK files

New…

- Alignments and profiles are stored in the DGN file.
  - No longer using COGO
- Profiles and Cross Sections now have their own special models
  - Now a few extra steps to getting the sheets…
- New tools for creating cross section cells

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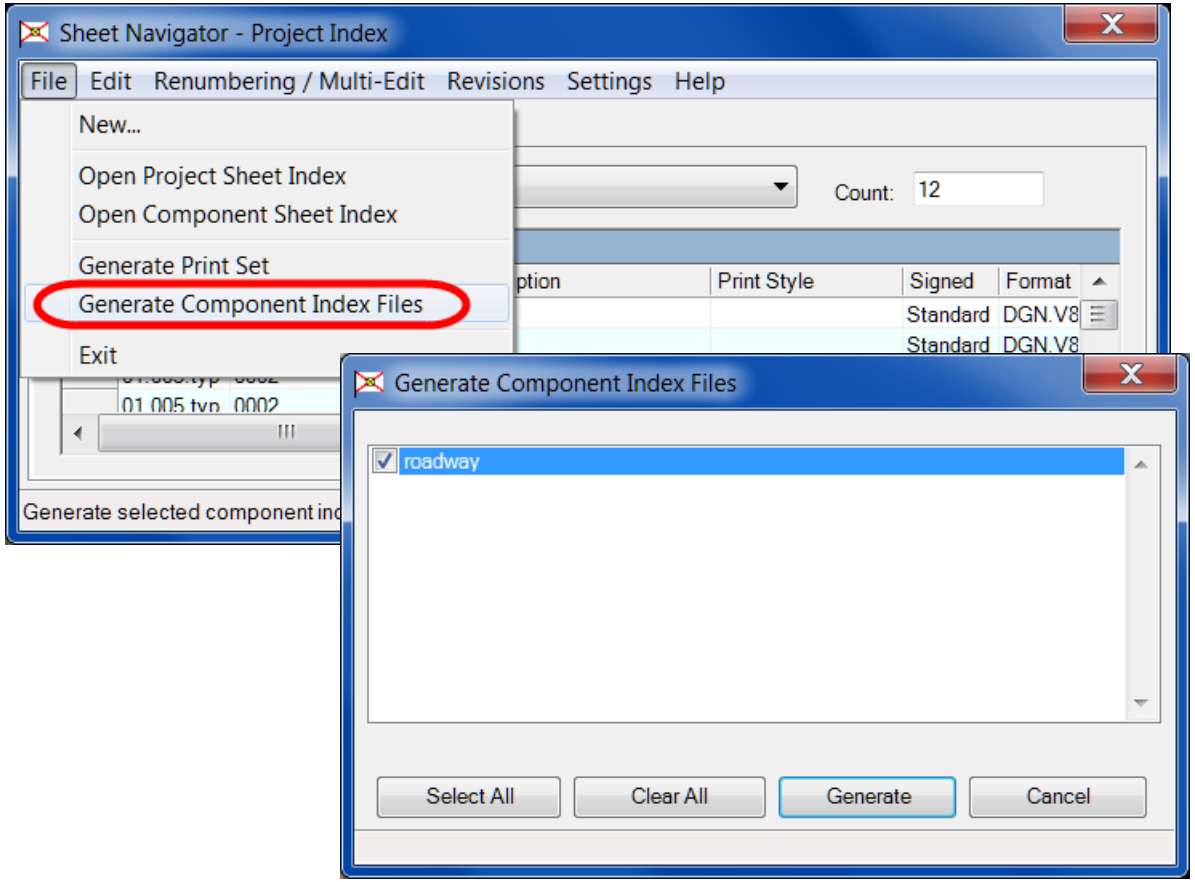
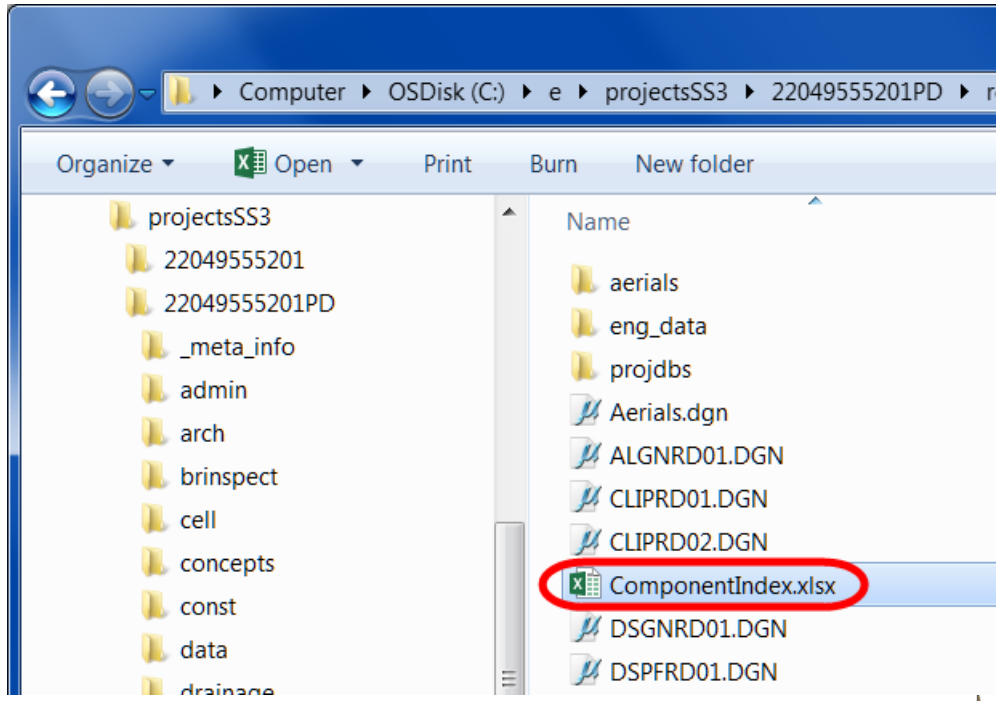
Key Sheets

Sheet Index

- Sheet Navigator
  - Creates an index in Excel which can be linked using LDM





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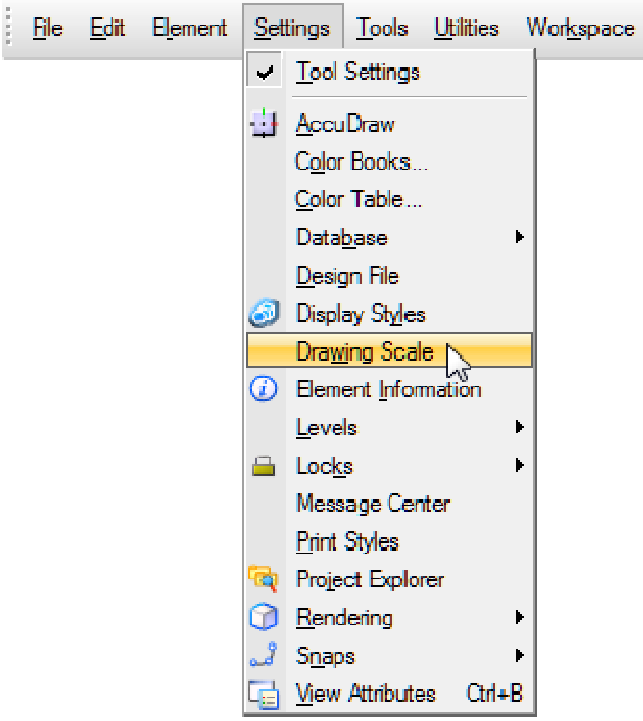
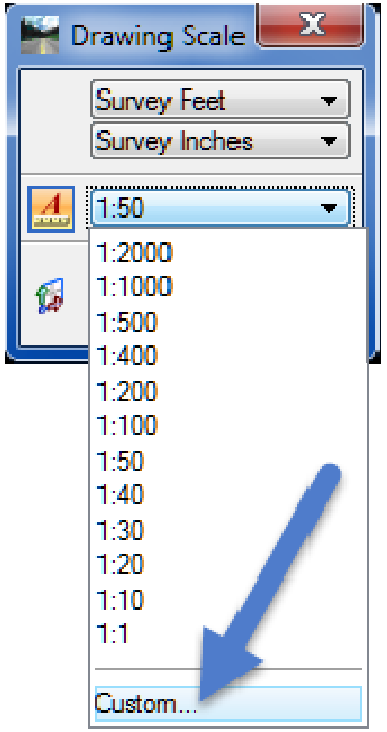
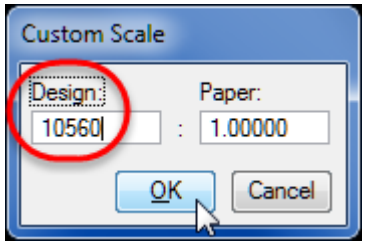
Key Sheets

Drawing Scale

- No longer using Plot Scale.
- Custom Drawing Scale needs to be created.







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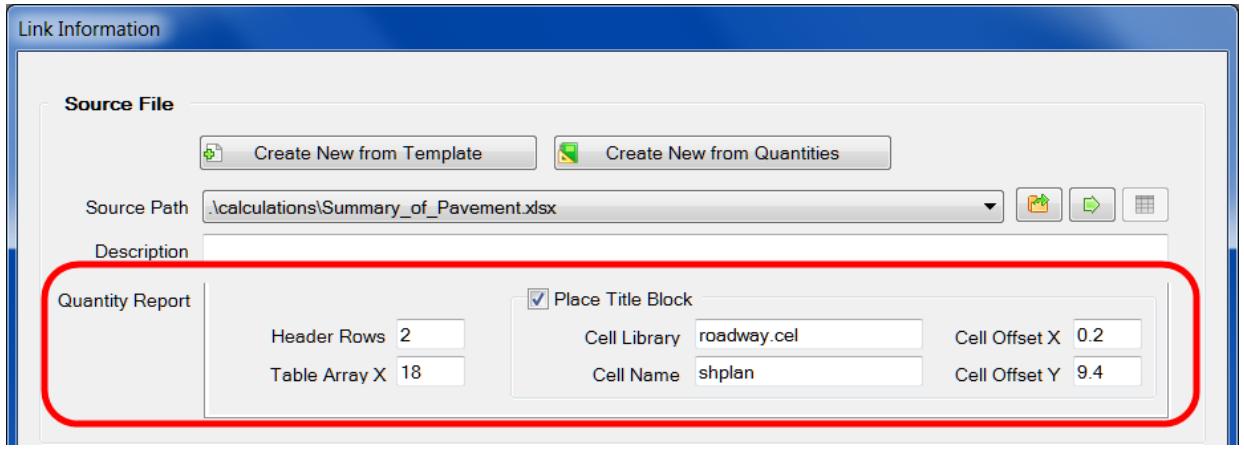
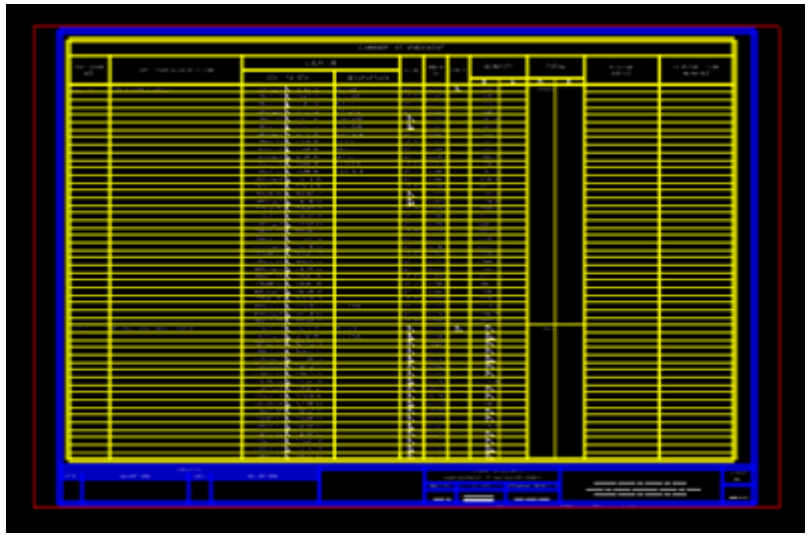
Summary of Quantities Sheets

LDM Enhancements

- Create New from Quantities
  - Places & creates links to all worksheets and has new option to place sheets with the summary boxes





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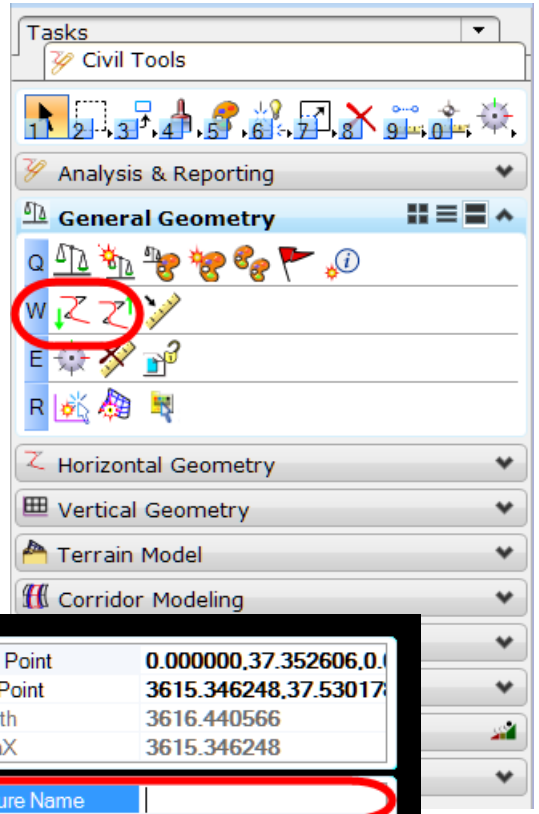
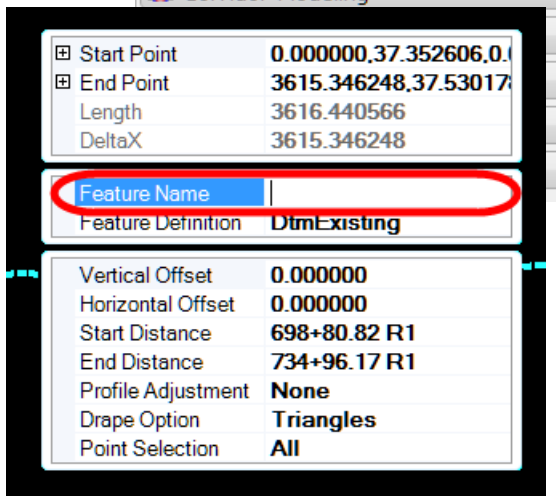
Plan/Profiles

Import/Export

- With the Design Tools in SS4, alignments and their profiles are stored in the DGN file.
- Alignments and Profiles must be exported to the GPK file in order to use the Plan Production tools.
  - Important – Profiles do NOT have names associated with them upon creation. Feature Names must be defined prior to exporting to the GPK.
  - When importing an alignment or profile from a GPK file created outside of SS4, feature definitions are not included and elements will be brought in on the Default level. Features will need to be set.





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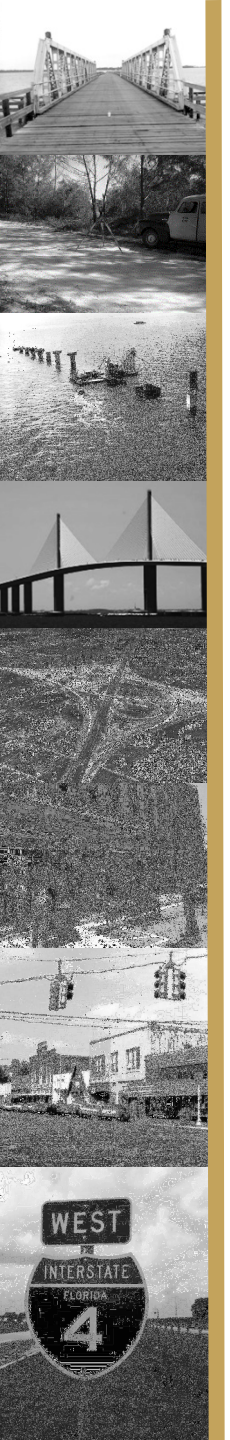

Plan/Profiles

Profiles Workflow

- Created in a "Profile" model inside the DSGNRD file.
- Define a Feature Name in the profile properties
- Export to the GPK
- Use Draw Profile tool in the DSPFRD file to plot for sheet clipping tools

Alignment Workflow

- Drawn and stored inside the DSGNRD file.
- Feature Name defines the chain name
- Export to the GPK
- Create/Edit tool creates the ALGNRD file with models
  - Only the station label and tick marks need to be drawn in appropriate scale model

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Plan/Profiles

Live Nesting

- Supported by the ECSO in SS3 and SS4.
  - No longer having issues with custom line styles showing incorrectly with nested files.
- Recommend Nesting Depth of 1.
- Must set Display Overrides to Never on Reference Attachment Settings.

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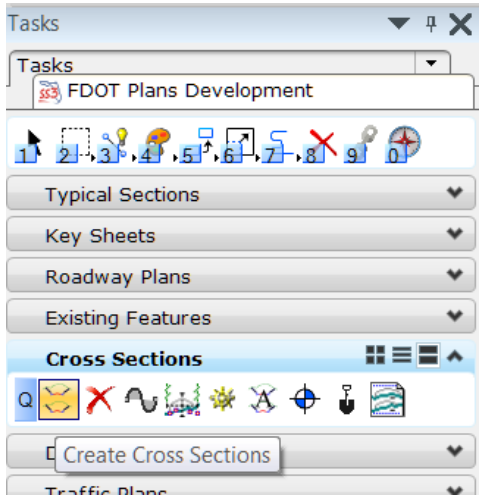
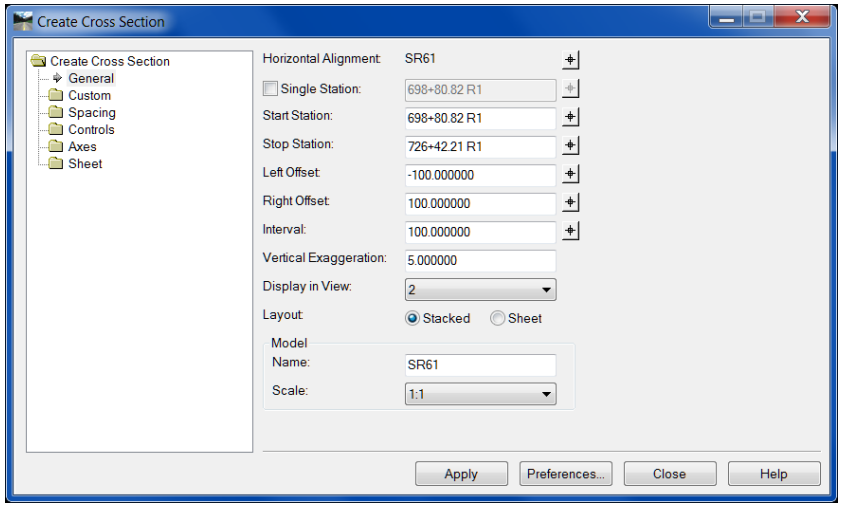
Cross Section Workflow

- New tool to create cross section cells
  - Cells are created in a new cross section model inside the active file. A new model is generated every time the tool is used.
  - Once cells are created, legacy cross section tools may be used (I.E. Ancillary Features, Borehole Navigator, Cross Section Labeler).
  - Creates a new model every time the tool is run.
    - Existing and Proposed sections will be in separate models.
    - The model with the existing features will be referenced to the proposed model. It is recommended to use the legacy tools in the model with the existing features so you only run them once.





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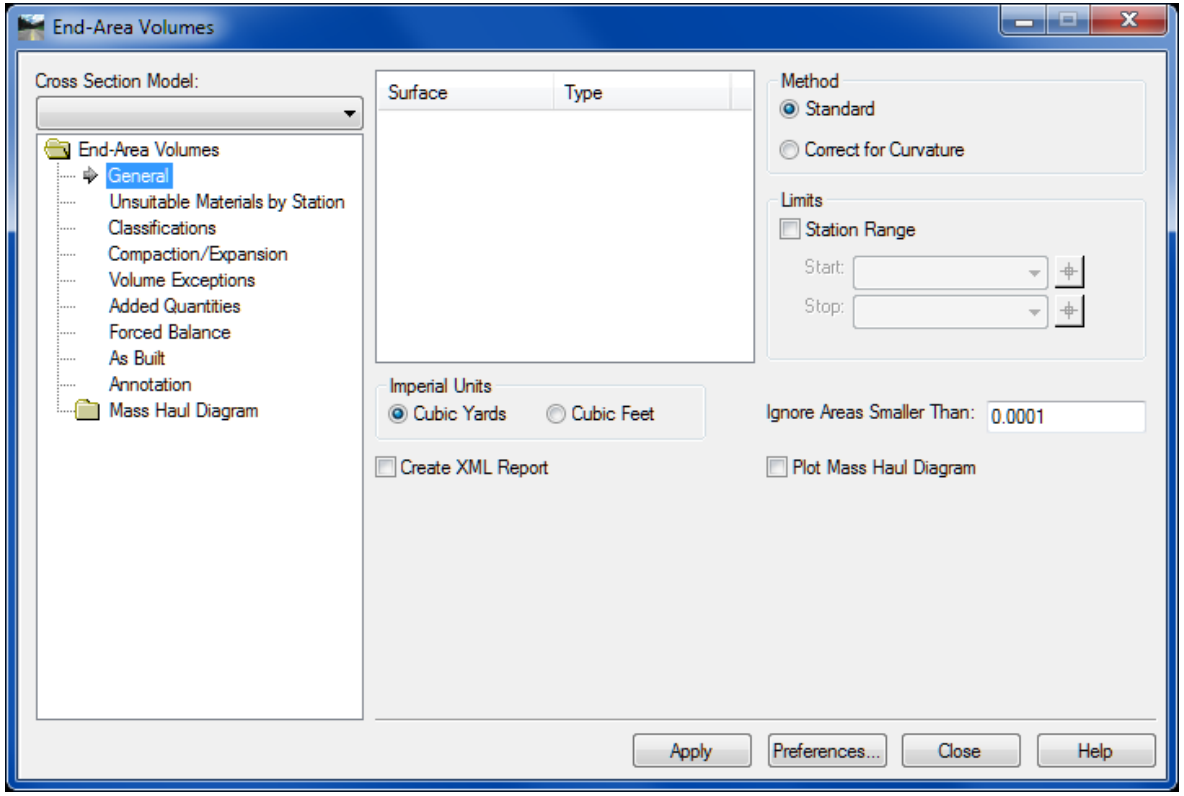
Cross Section Workflow

- New Earthwork tool



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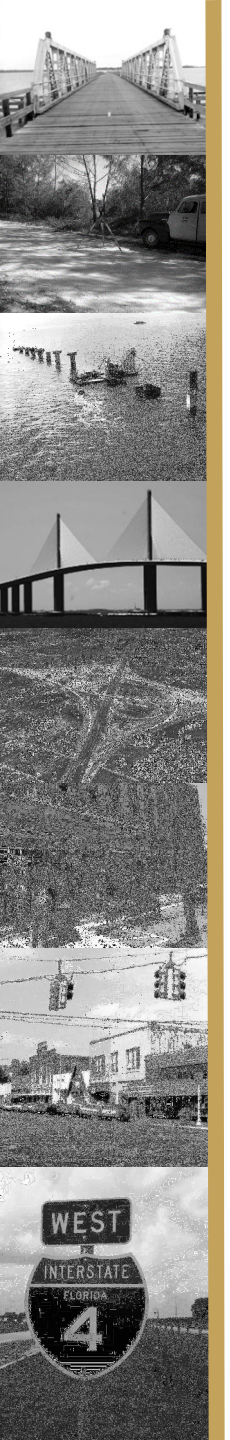
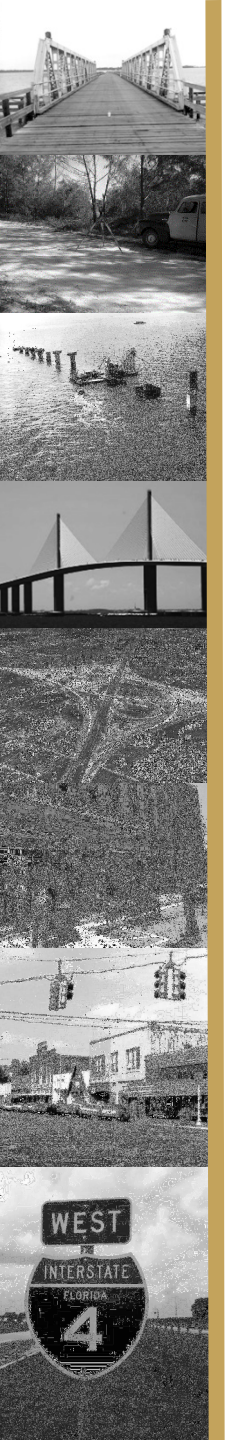


Notes

- Templates are available in Linked Data Manager for
  - NOTES
    - Major clean up of files available. Kept notes found in the Plans Preparation Manual.
    - TXT and DOCX formats
  - TABLES
    - Sheets
    - Summary Boxes
    - Tables
  - BLANK WORD TEMPLATES
    - Various sizes available depending on area to include on your sheets.



Questions???

Thank-you for joining today's session.

Need some HELP? Contact me…

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OR: ecso.support@dot.state.fl.us

http://www.dot.state.fl.us/ecso

FDOT CADD Support Forum On-line

http://communities.bentley.com/communities/user_communities/fdot_cadd_support/default.aspx

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