Florida Department of Transportation

605 Suwannee Street
Tallahassee, FL 32399-0450

FDOTConnect
Design Survey Workflow Orientation
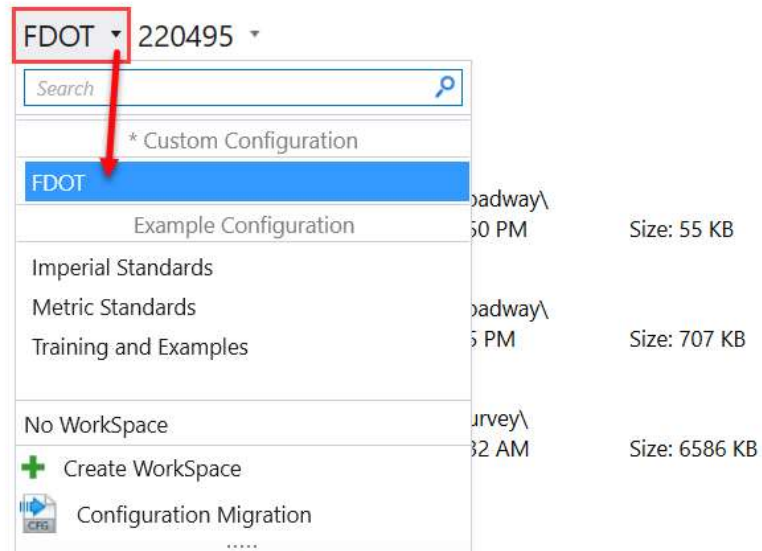
BENTLEY'S OPEN ROADS DESIGNER

SURVEY WORKFLOW FOR DESIGNERS
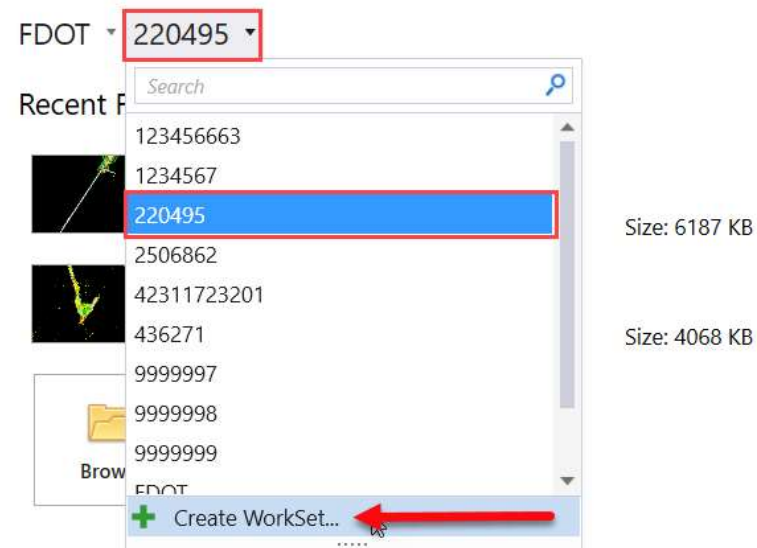
FDOTConnect MR1

ORD SURVRD

- Set the Workspace to "FDOT"

ORD SURVRD

- Create or Select Workset Project

ORD SURVRD

- Create or Select Workset Project

ORD SURVRD

- Select, Browse or Open New File
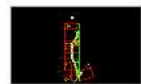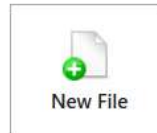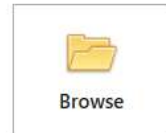
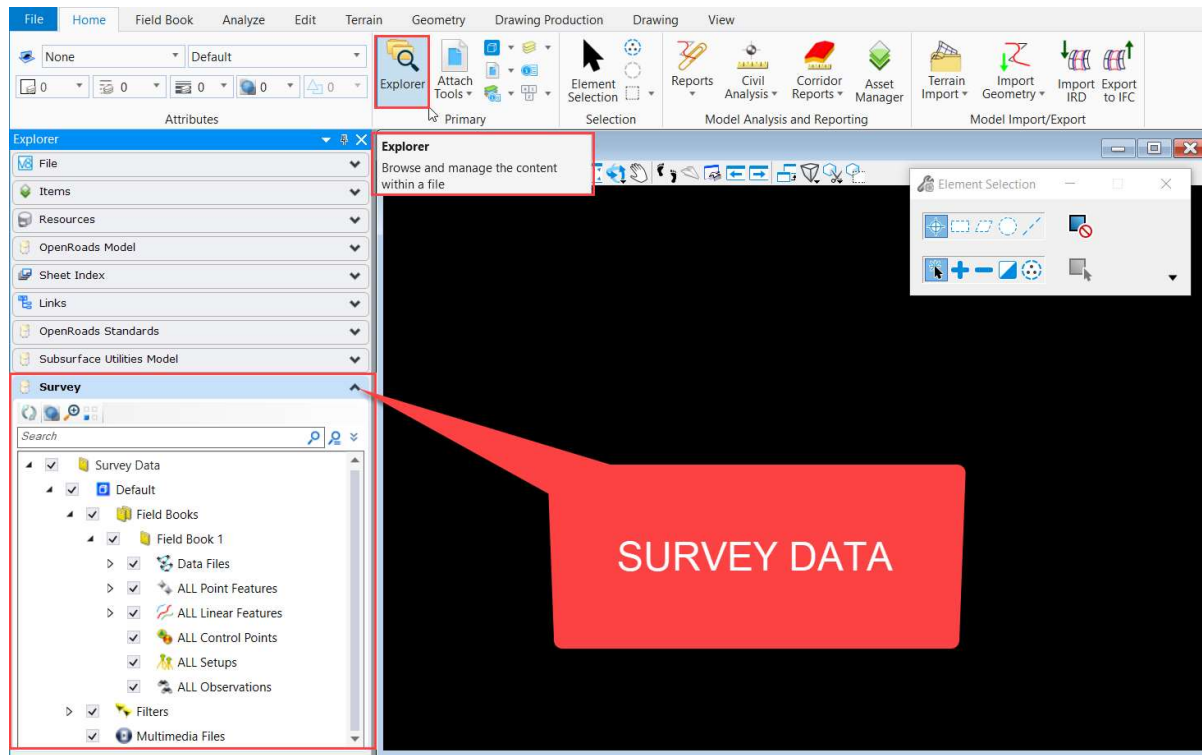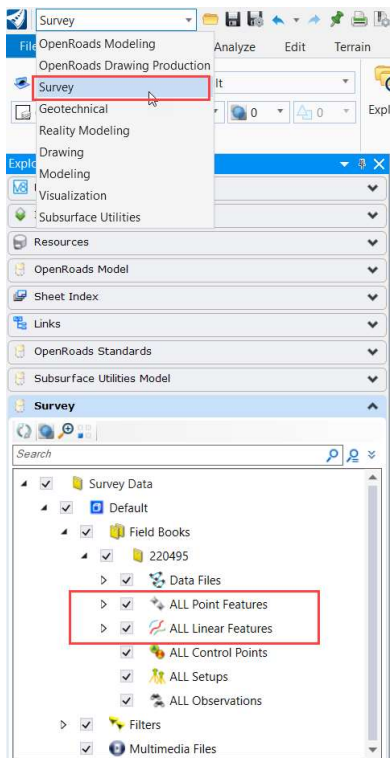# ORD SURVRD

- Set the **"Workflow"**
  - ➢ In ORD the Ribbon shown depends on which Workflow is chosen
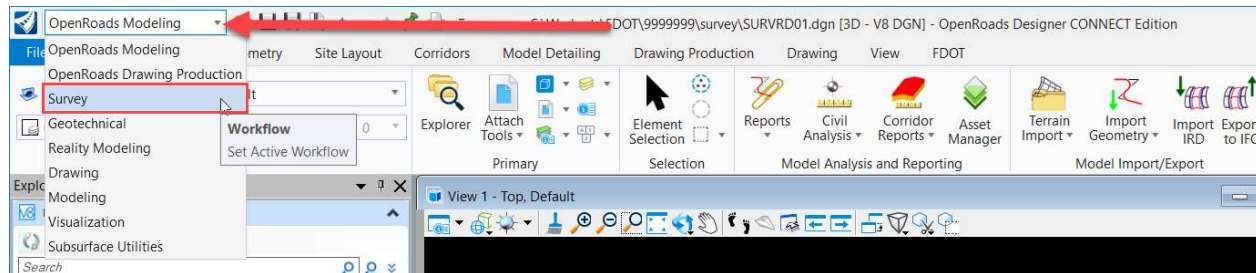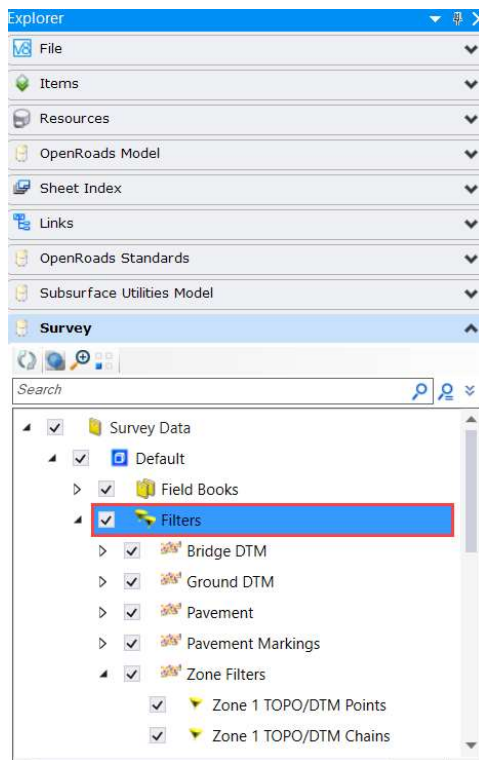
ORD SURVRD

ORD SURVRD
Survey Data

- Choose the survey Workflow for Survey tools

- Survey can be visualized with check boxes

- Expand Survey Data folder to segregate survey data

ORD SURVRD
Survey Data

- Survey Filters can be used to visualize the Survey Data by attributes
- Including but not limited to Field Code, DTM attribute, Zone or a combination of attributes
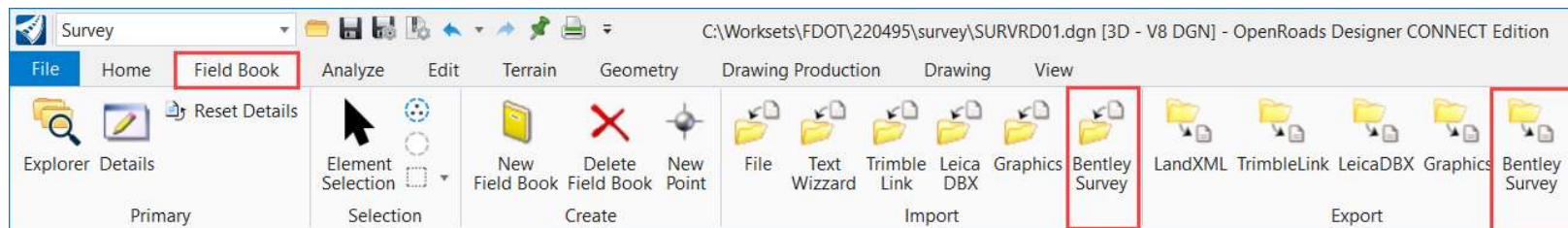
ORD SURVEY
Field Books

ORD SURVRD

- Note a new tool for Importing and Exporting a Bentley Survey Field Book to a **".sqlite"** file
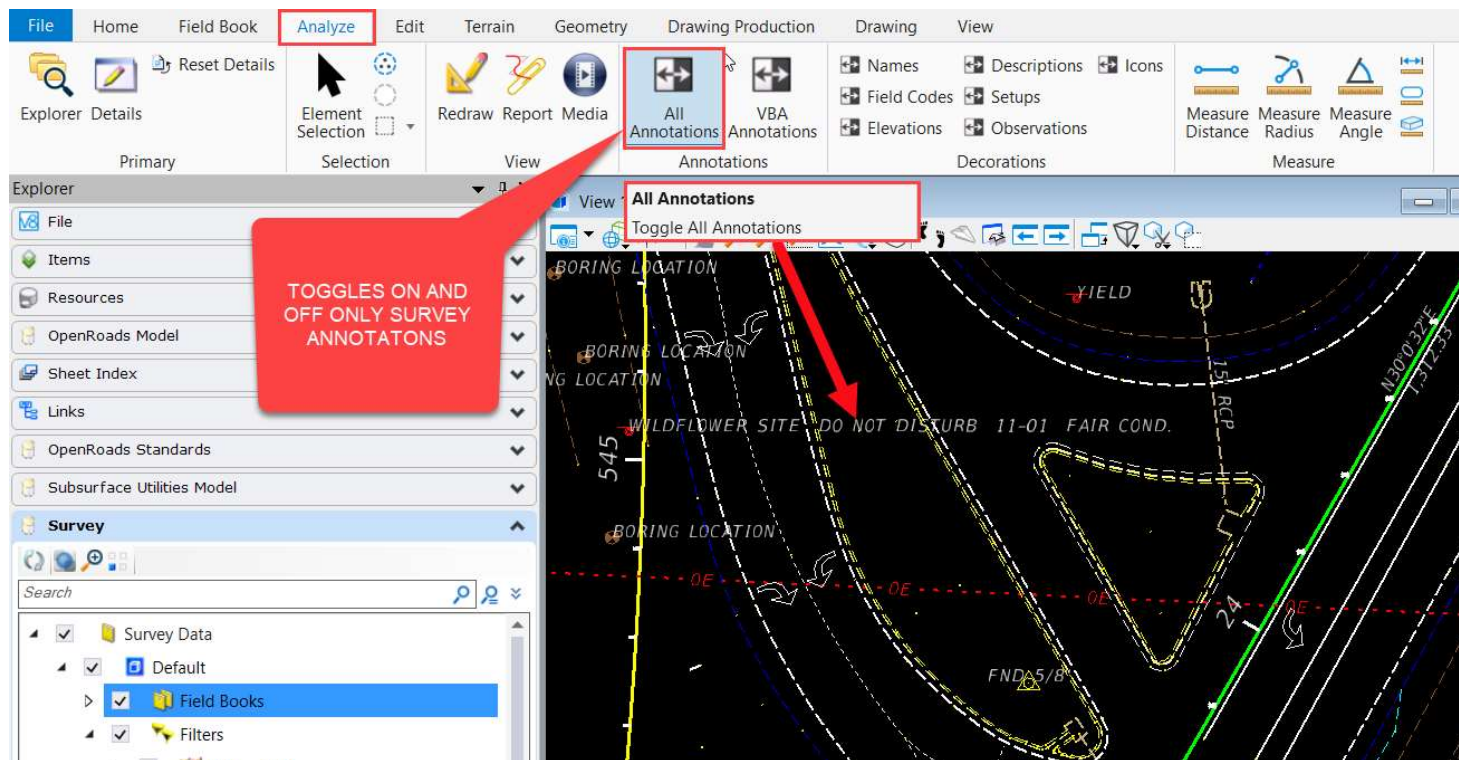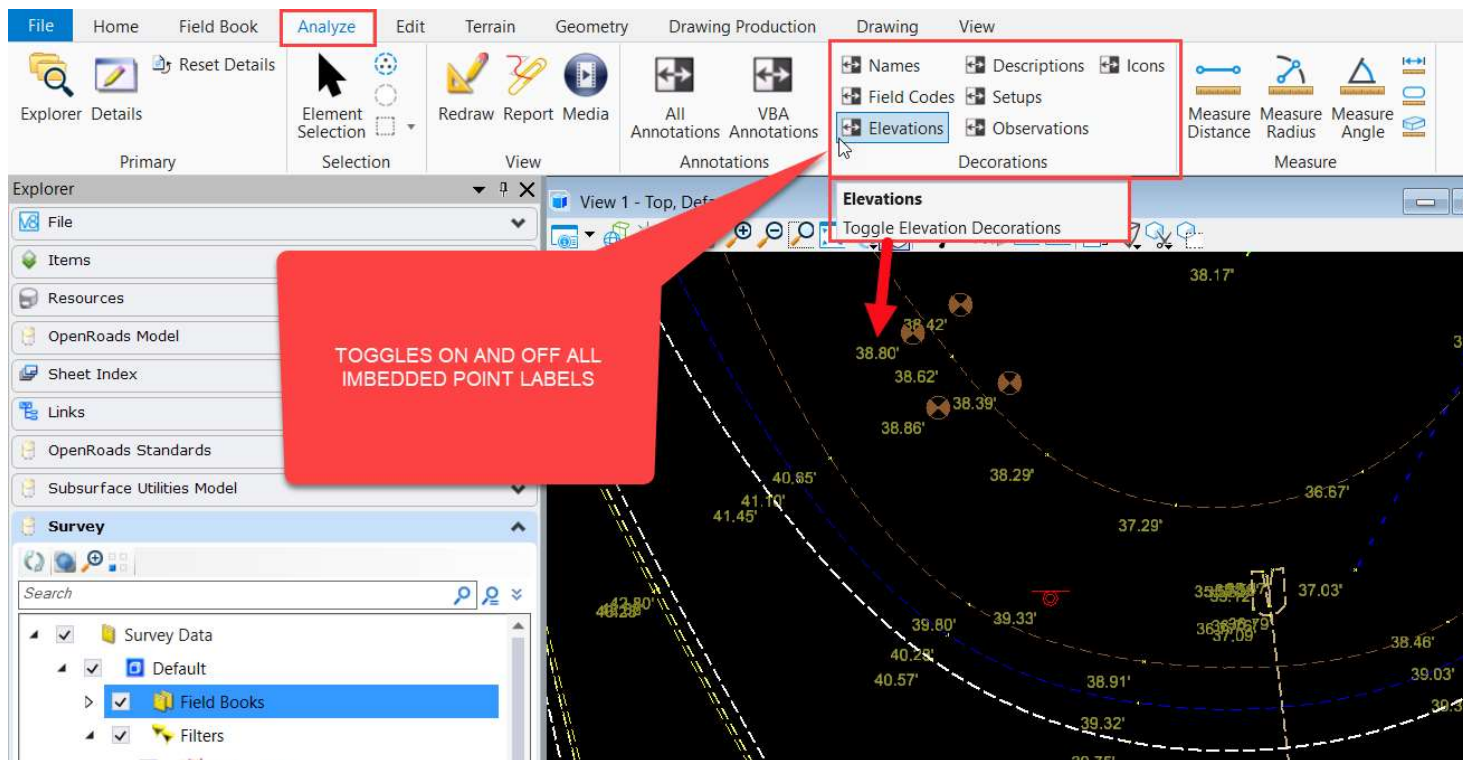
ORD SURVEY
Analyze

ORD SURVEY
Analyze

TOGGLES ON AND OFF ALL IMBEDDED POINT LABELS

ORD SURVEY
Analyze

ORD SURVEY EDIT

MUST DEACTIVATE SURVEY PROCESSING RULES TO EDIT MODEL

ORD SURVRD GEOMETRY TOOLS

- Note that the "Geometry" TAB has new COGO and edit tools for producing 2D geometry
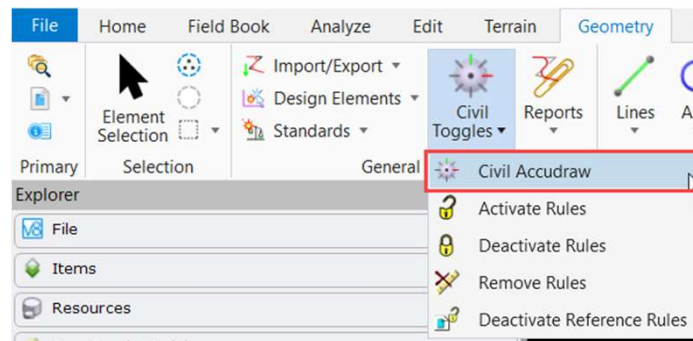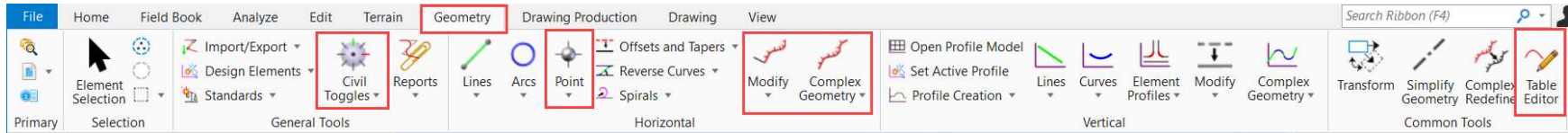
ORD SURVRD
GEOMETRY TOOLS
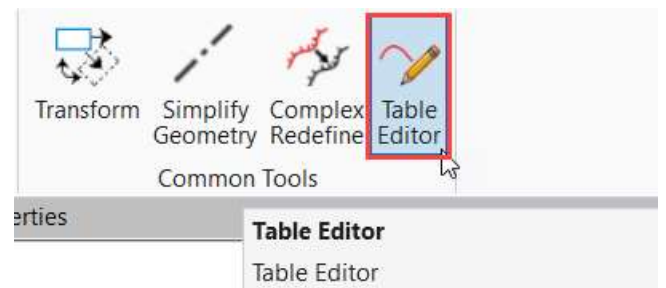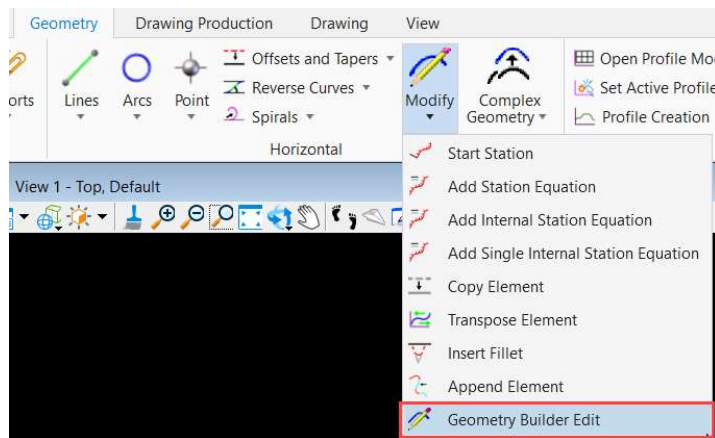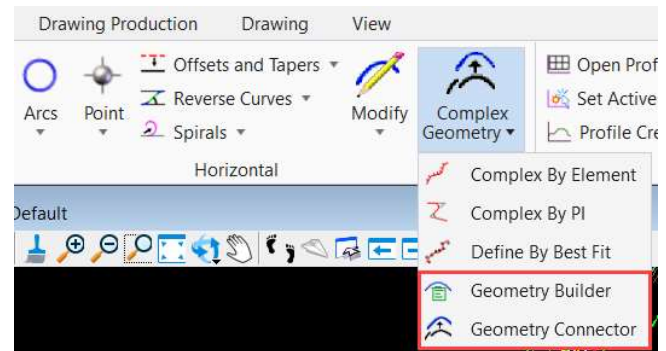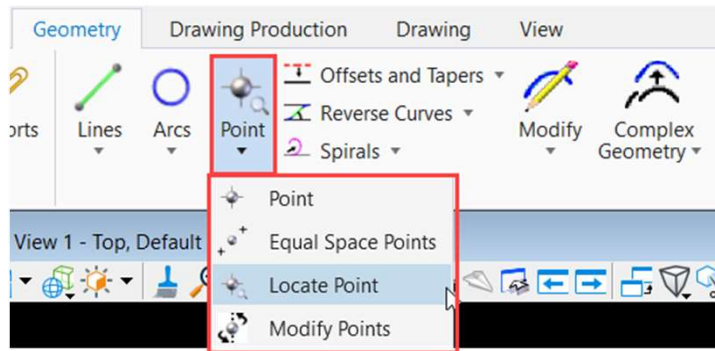
ORD FDOT MENU TAB

- Set the Workflow to "OpenRoads Modeling"
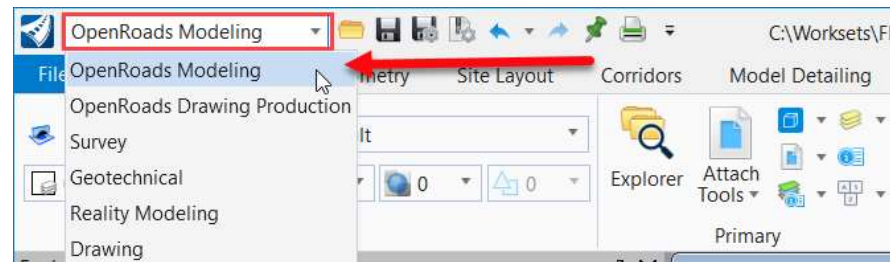
- NOTABLES - Create Files, LDM, Coordinate System, Workspace Doctor, Quality Control
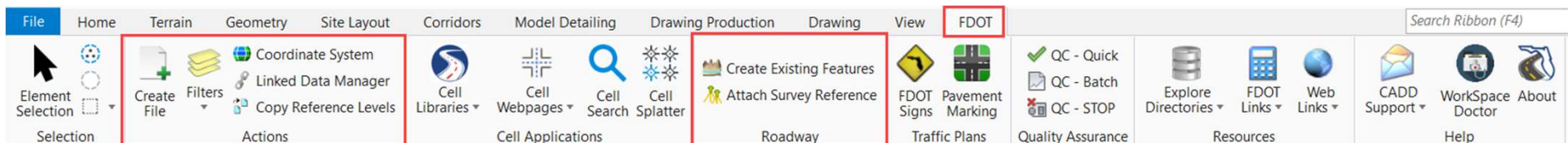
ORD SURVRD
LEVEL FILTERS
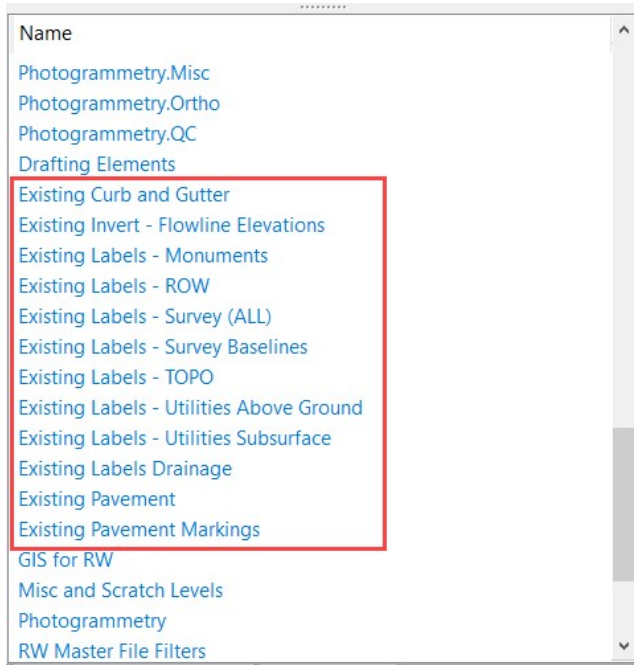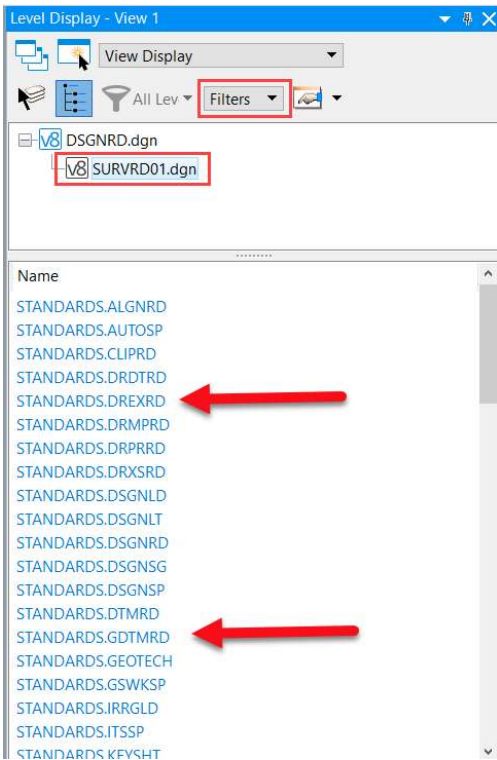
ORD SURVRD ANNOTATE FEATURES

- Select Element Annotation

- **BEWARE – Selecting Model Annotation will annotate the entire model... with possible undesired side effects such as empty text nodes (prior to version 10.07.01.32)**
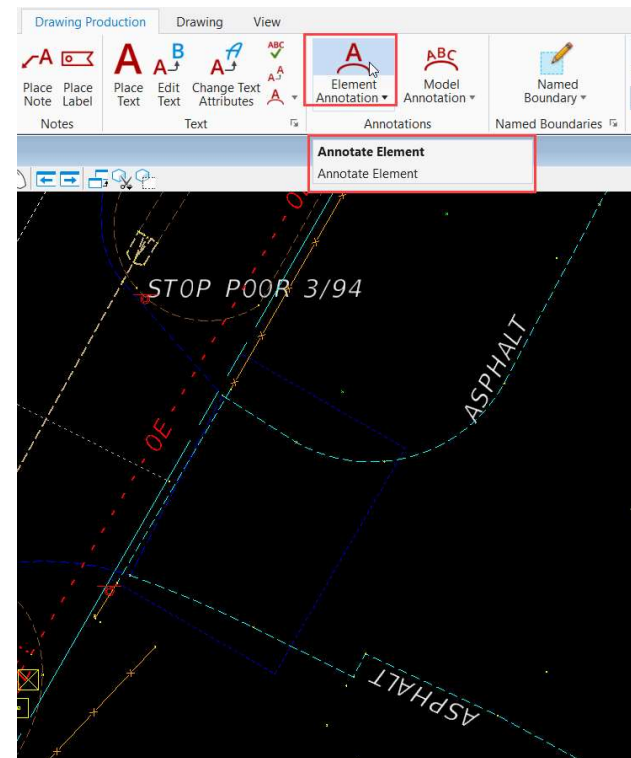
ORD SURVRD
EXISTING POINT FEATURES

- Dashed Cells were not legible to when plotted

- ORD Dashed Cells for existing features will have inherent dashes

- There is now only one cell library for survey symbology - *Survey.cel*
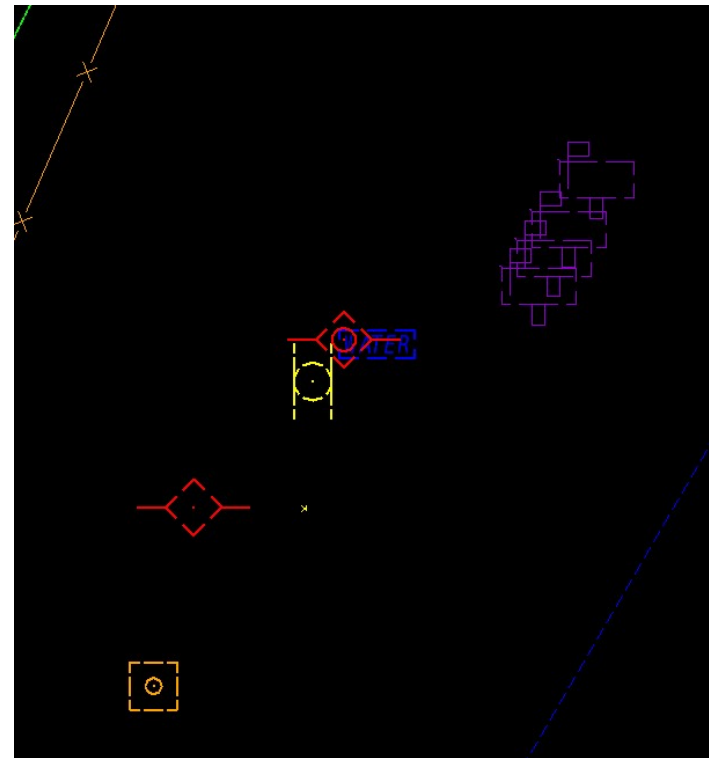
ORD SURVEY
TERRAIN MODELS

- Terrain Models built from the Field Book are tied to the Field Book

- Terrain Models can be exported to a LandXML or TIN and brought back into a DGN (GDTMRD)

- "Export Both", "Import Terrain Only"

FDOTSS4 SURVEY ←-----→ ORD SURVEY

- Export SS4 Terrain Models to "TIN" and delete

- Export SS4 Alignments to LandXML and delete

- Export all other SS4 data to pure graphics

- Import/merge all into new ORD Survey File

ORD SURVEY
TERRAIN MODELS
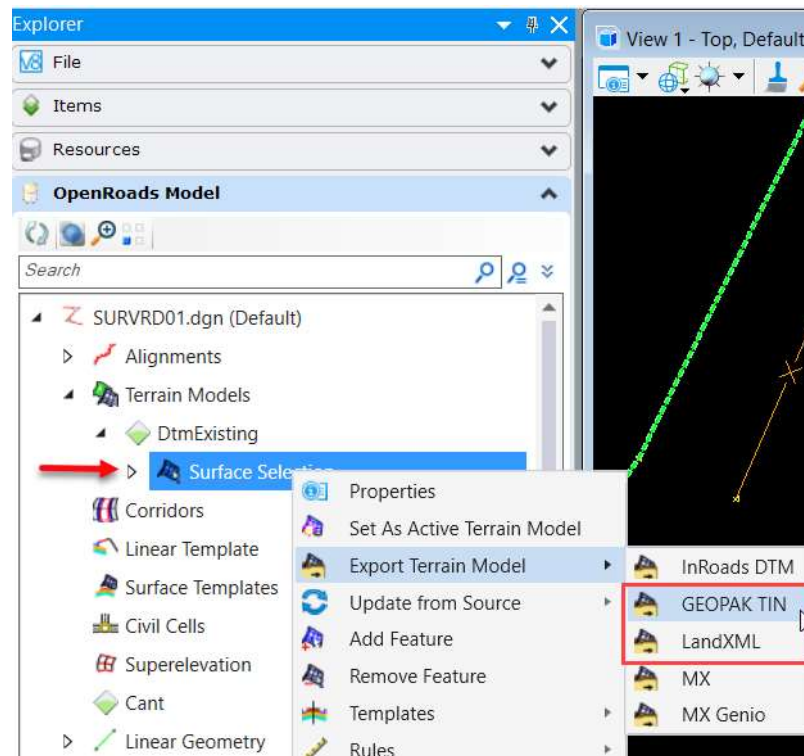
ORD SURVEY
TERRAIN MODELS

ORD SURVEY ALIGNMENTS

ORD SURVEY
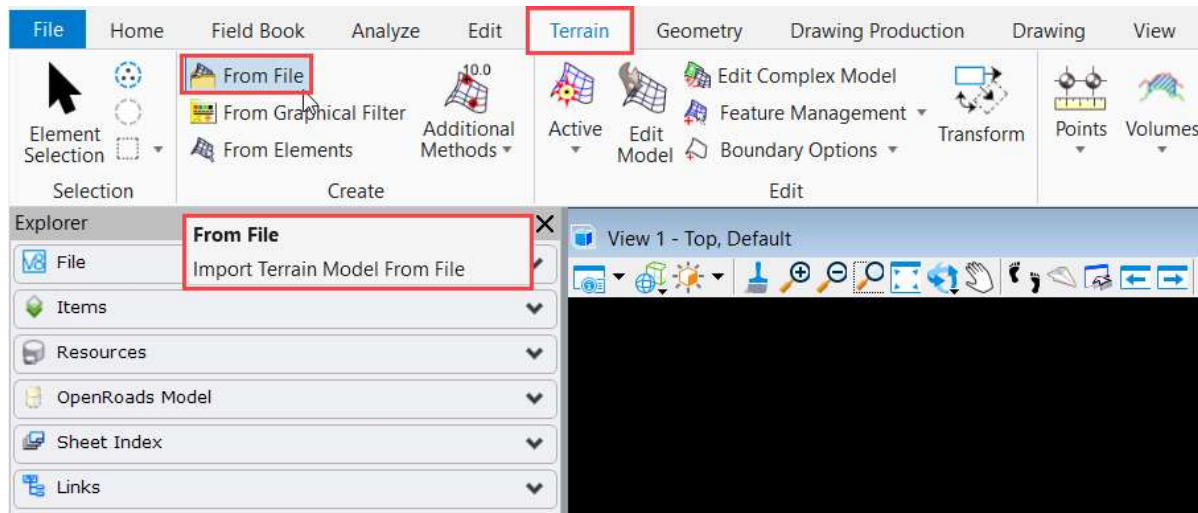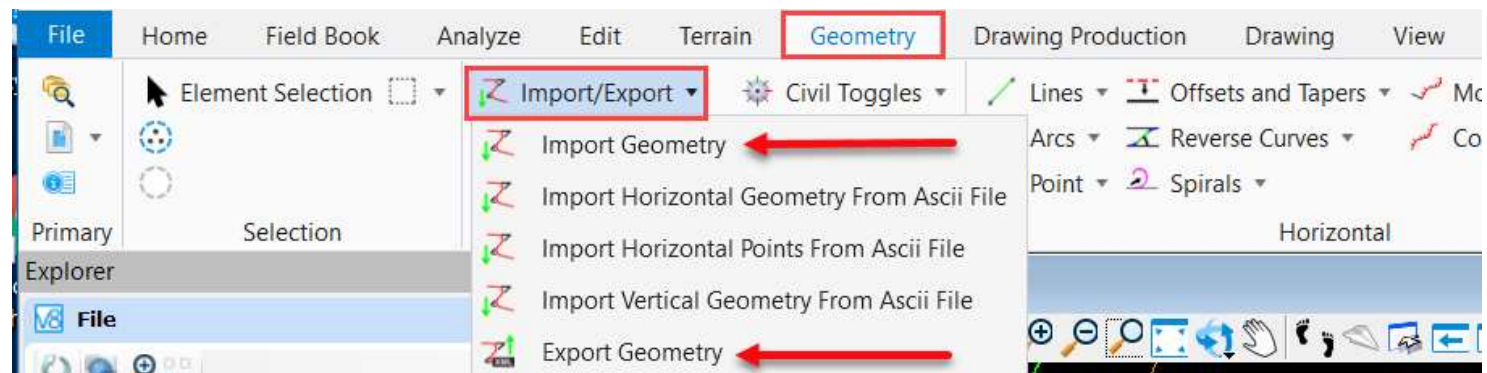# CREATE TERRAIN MODEL

BEWARE:

- **WHEN SELECTING ELEMENTS TURN OFF PROPERTIES (Element Information) DIALOGUE**

- **WHEN CREATING TERRAIN MODEL FROM SELECTION SET – Hold down CTL and then RIGHT CLICK on Field Books**

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DIRECT QUESTIONS TO:

CADD.Support@dot.state.fl.us