FDOT 3D Initiatives:
Making the Transition to OpenRoads Designer

Vern Danforth, PE - Andrew Poszich, EI
ORD Implementation
NexGen Plan Sheets
Bentley will not support SS4 starting in July
Use of legacy GEOPAK criteria files not allowed starting in Jan 2020
ORD required for projects starting in Jan 2021
OpenRoads Designer Workflow Changes

- Survey Deliverables – SURVRD
- Existing Feature Modeling – MODLRD01-EX FEATURES
- Design and 3D Modeling – ALGNRD, DSGNRD, MODLRD
- Plan Production - PLANRD, PLPRRD, RDXSRD
- Drainage - DRPRRD
- Traffic – DSGNSP, DSGNSG, DSGNLT
- Traffic Control - TCPLRD
- Quantity Estimates - QTDSRD
**OpenRoads Designer Training**

**NOW** - Training is available for ORD through the Bentley Learn Server.

**June** - FDOT Symposium sessions

**Oct** - User Group (FLUG) workshops

**Jan** - Recorded webinar, custom FDOT training on-line materials

**Jan thru June** – District Training workshops
Modeling Class Computers

- Processor – i7
- RAM – 32G
- Video Card – 8G

1. HEEP Survey of State DOTs
2. Survey of Beta Attendees
3. CADD Office testing

Frequency of crashes is directly related to the experience level of the operator.
ORD Implementation

Project Delivery

• VAULT - All active and archived CADD project data
  o TIMS and PEDDS migration

• PSEE -
  o Final Plans Module – PS&E Folder
  o Design Documentation Module
NexGen Plans

The modern roundabout as defined in NCHRP 672 is the only circular intersection configuration that will be allowed on the State Highway System (SHS).

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NexGen Plans

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FDOT Connect and ORD Beta Testing
I-95 Express
World without Geopak

- DGN houses all information
- Horizontal and Vertical geometry controlled in .dgn
- Cross sections linked to model
Model Driven Design

- 3D first design mentality

- Faster geometry validation

- Model review and QC
Conveying Information

Real-time design feedback

Data is just a reference away

Rapid generation of alternatives
Interdisciplinary Coordination

- Easily extract design information
- Real-time 3D collaboration
- Passive design QC
Where did my tools go?

- Using the Ribbon
- Hotkeys?!
- Learn the spacebar
- Search menu
- Customize menu options
Learning the new plans production workflow

- Workflows will change
- Sheet model spaces
- Sheet indexing
- Live updating
- Bentley Learn Server
Emphasis on features

- Different than SS4
- Feature symbology
- Annotation groups
- Item types
Workspaces/Worksets

- Switch between clients/projects
- Sets boarder sheet information
- Take the time to understand
Some Things New
ORD
Background Maps
Reality Meshes
LumenRT
Site Layout
Open Discussion

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