



#### **Dynamic Modeling with InRoads**

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# What we are going to cover

- Geometry Design & Annotation
  - Horizontal & Vertical
- Update Design Add-In
  - Where is it?
  - What is it?
- Update Design Settings
  - What are the settings?
- Update Design
  - What does it do?



#### **InRoads Geometry**

- Design Standards
- Automatic Dynamic Annotation







### **InRoads Geometry Design Standards**

- Have been there for a while as an post check. (Still there.)
- Now we can apply at design time for automatic curve placement.
  - Geometry > Horizontal Curve Set> Design Criteria
  - Geometry > Vertical Curve Set > Design Criteria

<ul> <li>Uses same Design</li> <li>Design Criteria</li> </ul>	Criteria	File as before Design Criteria	×
Use Design Criteria "Horizontal Design Checks" File Name: C:\Demo_Data\InRoads_Demo\Horizontal Design Checks.txt	Apply Close	<ul> <li>✓ Use Design Criteria</li> <li>"Vertical Design Checks" File Name:</li> <li>C:\Demo_Data\InRoads_Demo\Vertical Design Checks.txt</li> </ul>	Apply Close
Speed: Maximum e: Minimum Radius: 960.0000	Browse Preferences Help	<u>S</u> peed: <u>50</u> ▼ Limits: Lower ▼	Browse Preferences <u>H</u> elp



#### **Demonstration**





### **Automatic Dynamic Annotation**

- Annotates Geometry as it is created, edited, moved, etc...
- Uses Alignment Style
- Works for Both Horizontal and Vertical Geometry







#### **Demonstration**





### **Dynamic Horizontal Annotation**

#### View Horizontal Annotation





Be Together WIREDGE 18

## **Dynamic Vertical Annotation**

#### View Vertical Annotation



Alignment Style = Preference Name



Be Together Together

# **Dynamic Modeling**

- Update Design Add-In
  - Where is it?
  - What is it?
- Update Design Settings
  - What are the settings?
- Update Design
  - What does it do?
- Dynamic Update of Design Graphics
  - In Variable Manager



# **Update Design**

• Application Add-In









# **Update Design Settings**

• What is to be updated

Design Surface Graphics:	ОК
Triangles	Cancel
Contours	Preferences.
Features	
Components	
Cross Sections	
Profiles	





# What we are going to cover

- Variable Manager
  - Application Add-In
  - Dynamic Update of Design Graphics

Variable Manager	
Geometry - Display Alignments as 2D Pc Geometry - Display Micro Station native Survey - Rotate Graphics on Dual-Code Evaluation - Annotate Radius in Cross S Rail - Disable Point Display in Switch an Dynamic Update of Design Graphics Command Behavior: File - Persist Project Default Paths Ele Omit Project Optiones Full Path Description Enables automatic redisplay of design graphics in pla and cross section on alignment or roadway design of The Update Design addin must also be activated for variable to have any effect.	Apply Close <u>H</u> elp





### What we are going to cover

- Variable Manager
  - Set a Hot Key
  - Must be used with the funckey.mnu file

Inroadstools setvariable DynamicUpdate; inroadstools getvariable DynamicUpdate inroadstools setvariable DynamicUpdate (Sets the variable on or off) inroadstools getvariable DynamicUpdate (Returns the state <null> value when off)

- Hit function key to turn on or off





#### **Demonstration**





