

2009 ROADS AND BRIDGES CONFERENCE

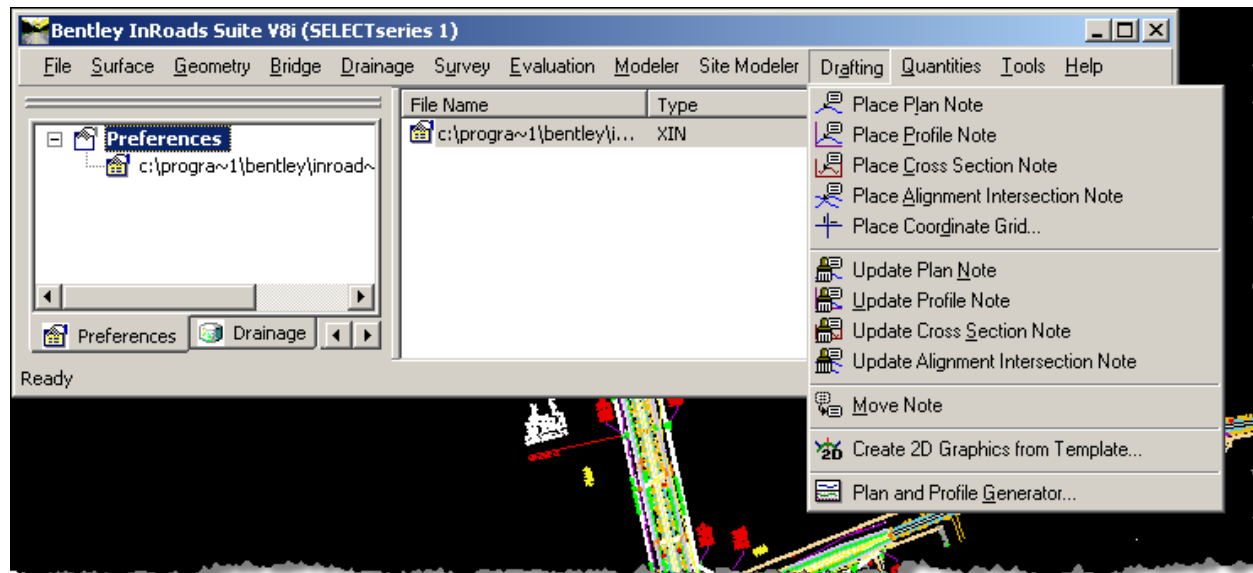


Drawing Preparation and Production Tools for InRoads V8i

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Production Tools

- Where and what are the Production Tools?



- The Drafting commands are used to enhance the production of final drawings.
- Place intelligent annotation notes on features and geometry in plan, profile, and cross section views as well as at the intersection of two alignments, create 2D graphics (for drafting) from templates, and generate plan and profile sheets.

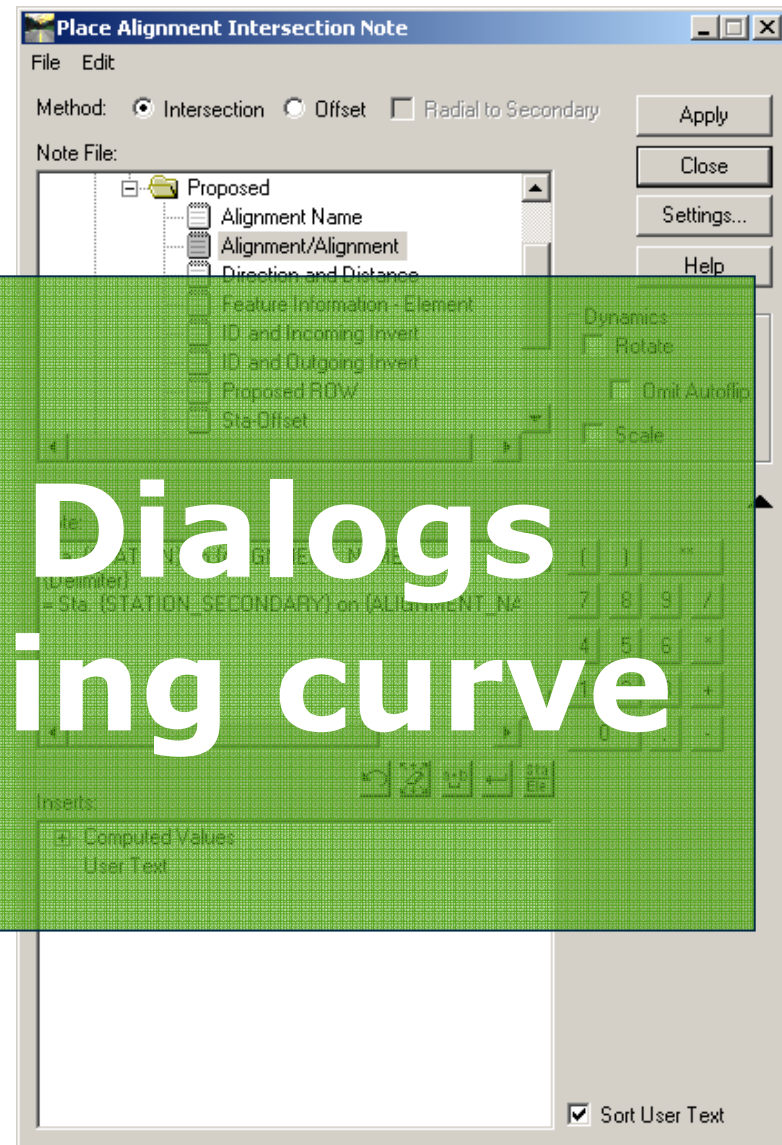
Production Tools

- Place Plan Note
 - Display annotation notes in plan view.

- Compose notes by directly keying text; by keywords for computed values; by selecting use or reference to existing alignment or feature information.
- Combination of these methods.

**Consistent Dialogs
reduce learning curve**

- Place Cross Section Note
- Place Alignment Intersection Note



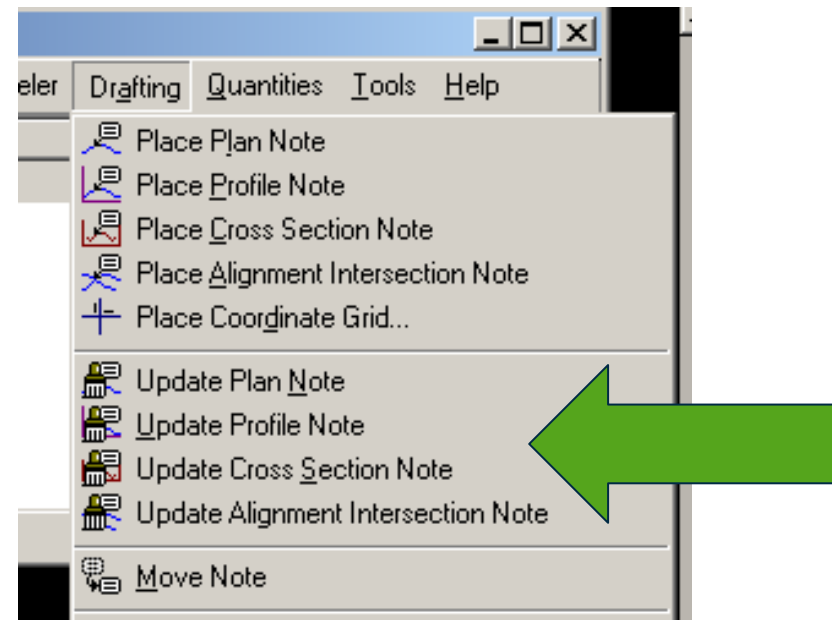
Production Tools

- Place Coordinate Grid
 - Displays a coordinate grid based on user defined parameters

	Object	Interval	Prefix	Suffix	Precision	Name	
<input type="checkbox"/>	Grid Line						...
<input checked="" type="checkbox"/>	Point						...
<input checked="" type="checkbox"/>	Northing	500.00			0		...
<input checked="" type="checkbox"/>	Easting	500.00			0		...

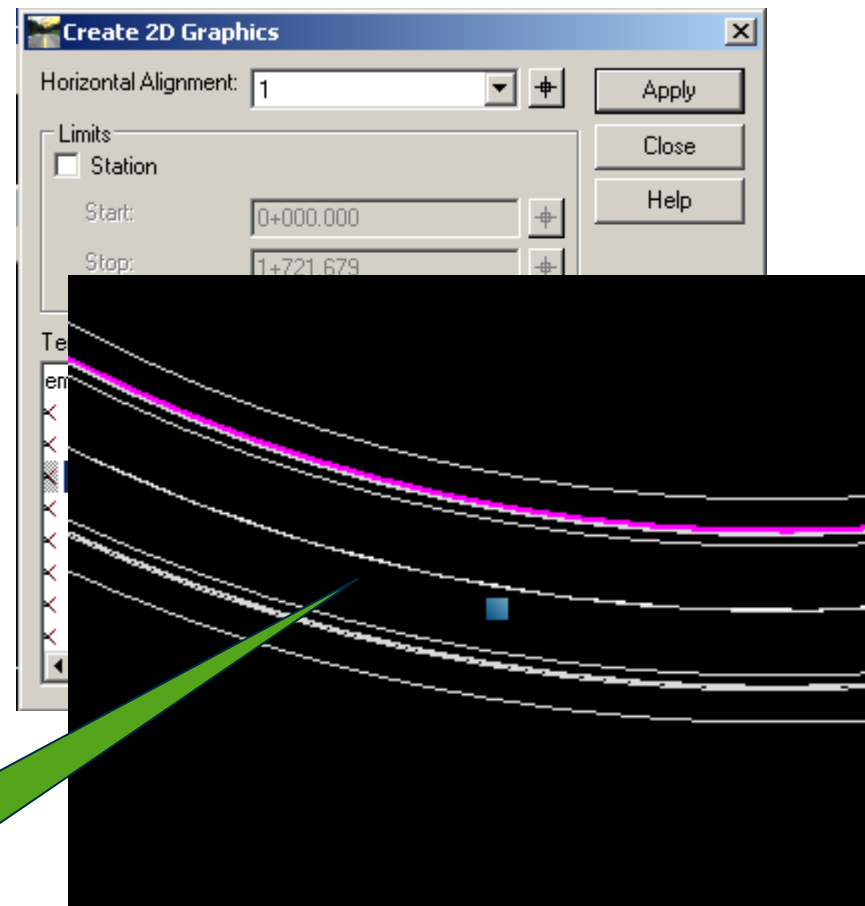
Production Tools

- Update/Move Notes
 - Modifies notes placed using Drafting Tools



Production Tools

- Create 2D Graphics
 - Process user specified template along alignment
 - Useful in Drafting



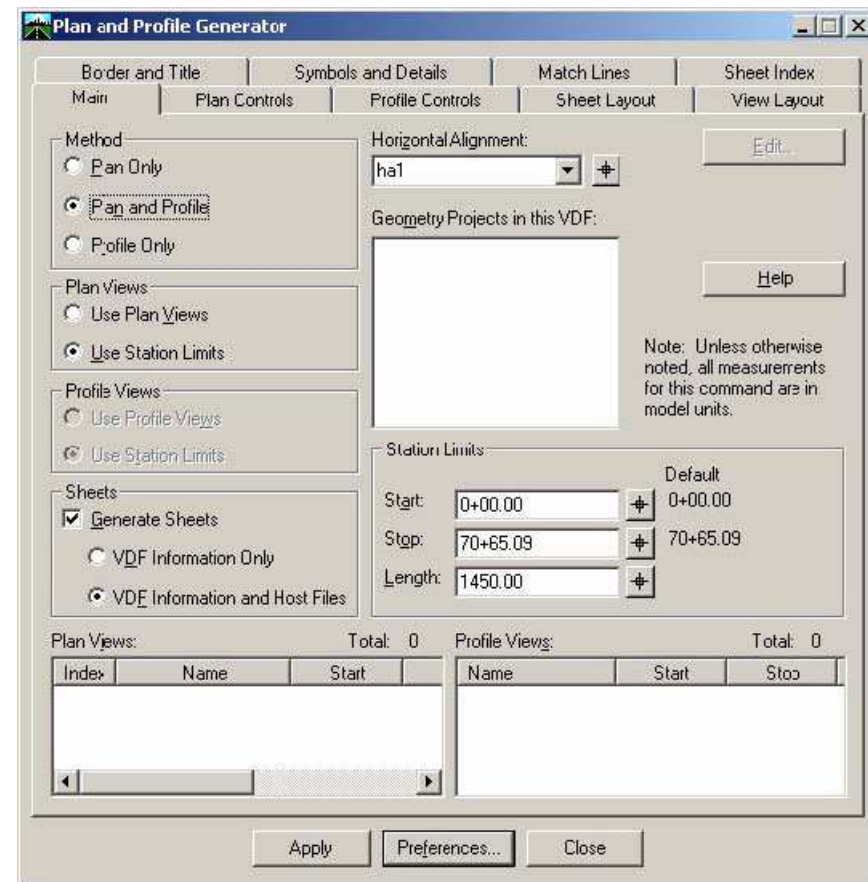
True Curves, not
chords

Plan and Profile Generator

- Automatically create plan views and profile views
- Assemble the alignment-based sheets
- Store the definitions in an ASCII file called the View Definition File (VDF).
- Re-use VDF when computing quantities
 - Isolate quantities by sheet

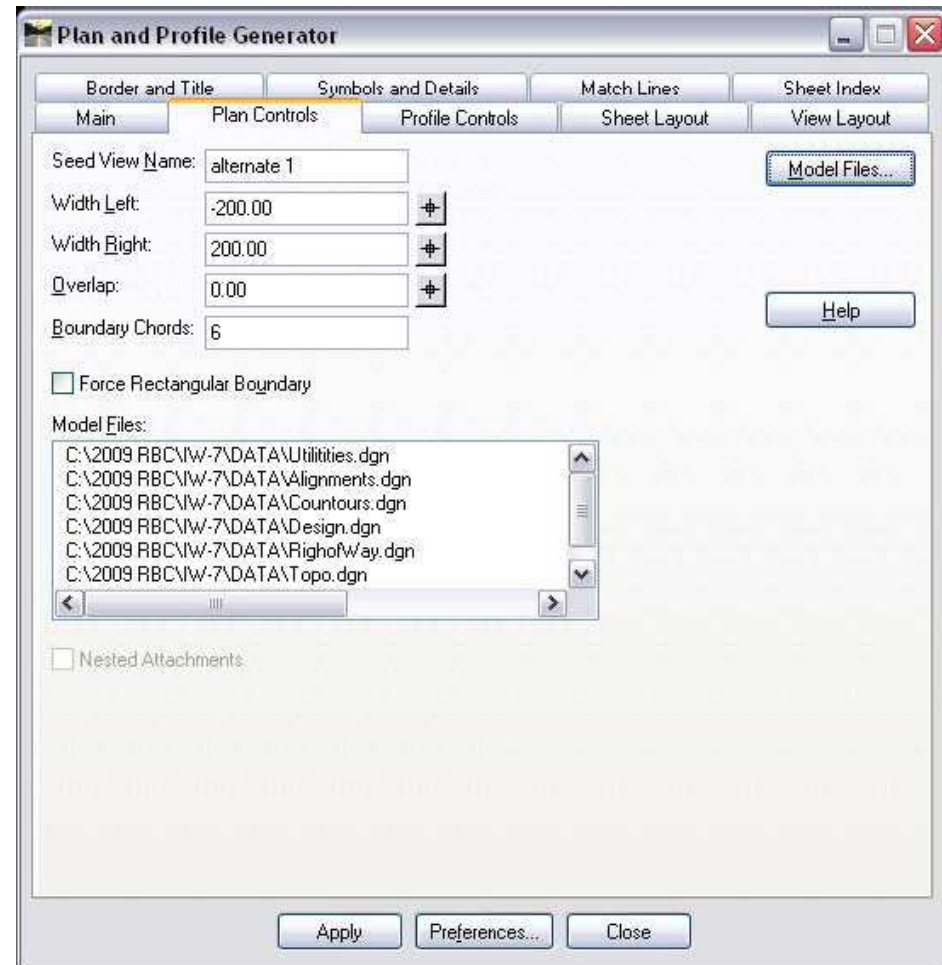
Plan and Profile Generator

- Main Tab
 - Specify Horizontal Alignment
 - Plan only?
 - Profile only?
 - Both?
 - Method
 - Sheets + VDF?
 - VDF only?
 - Station Limits
 - Total length
 - Length on each sheet



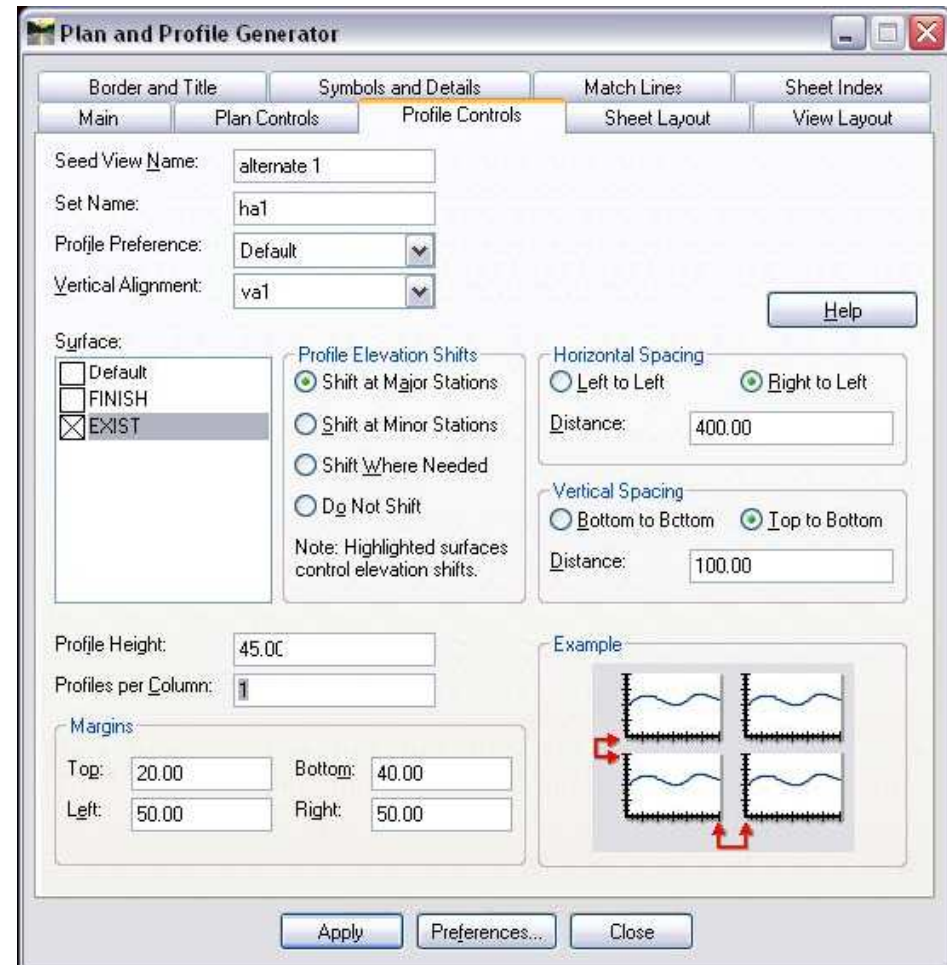
Plan and Profile Generator

- Plan Controls
 - Specify size of plan views
 - Smoothing (chords)
 - List files to be used (reference)



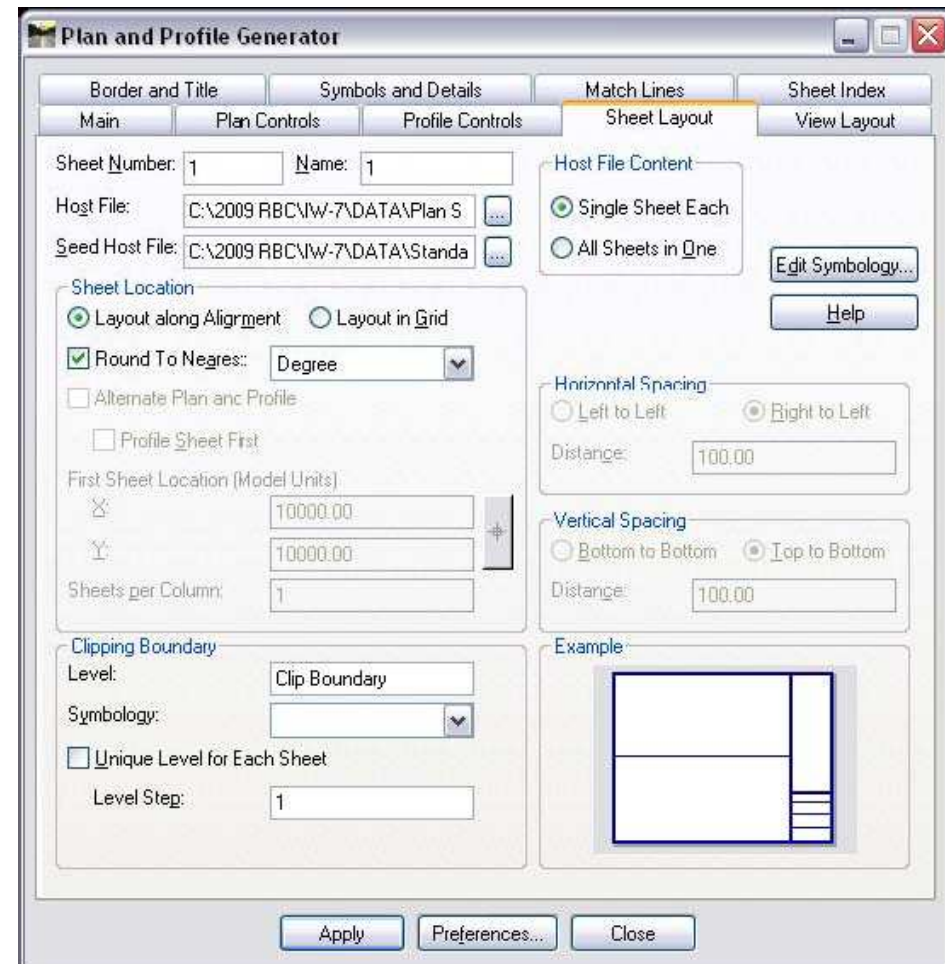
Plan and Profile Generator

- Profile Controls
 - Size, display, and spacing of Profile views



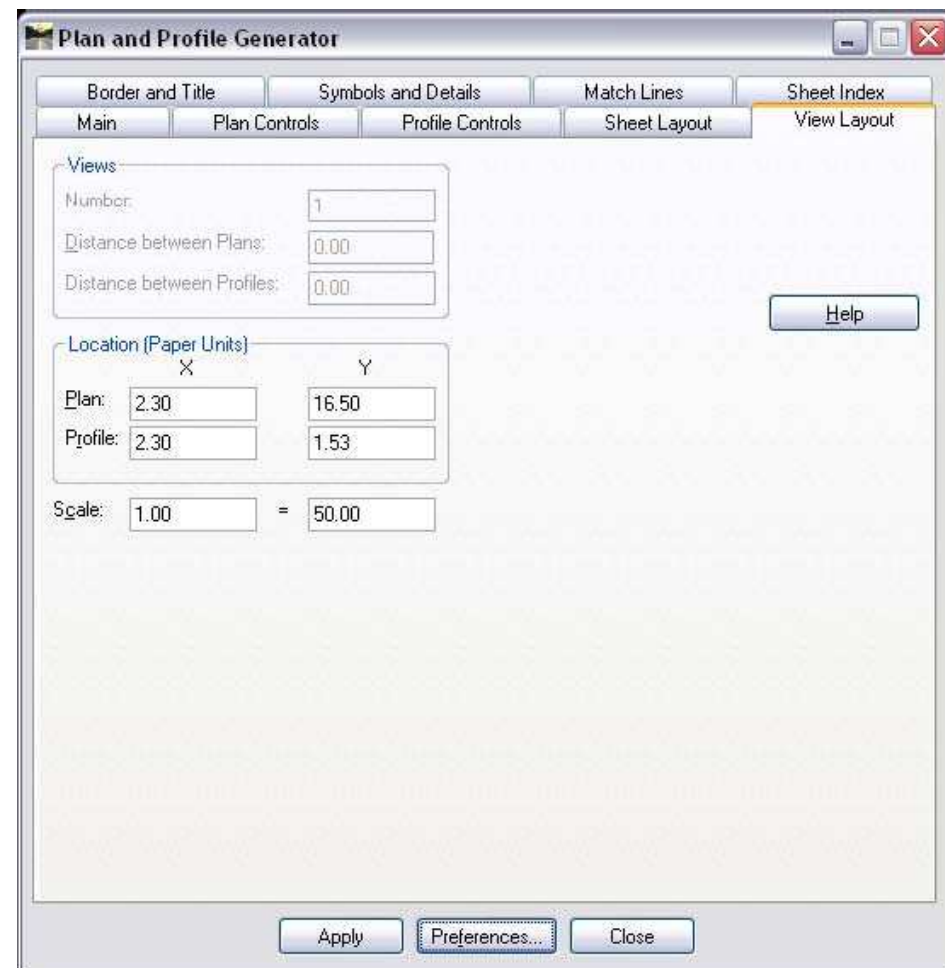
Plan and Profile Generator

- Sheet Layout
 - Along Alignment or Grid
 - Symbology for clipping boundary
 - Spacing



Plan and Profile Generator

- View Layout
 - Location of views on “paper”

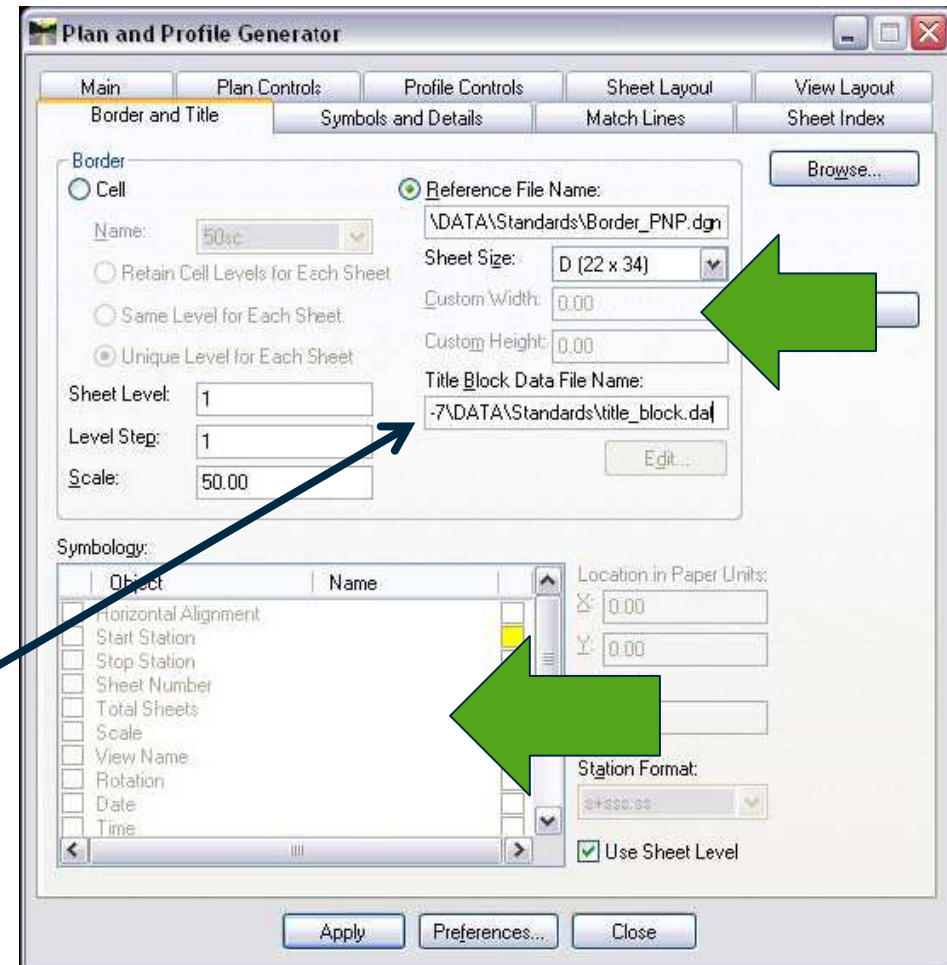


Plan and Profile Generator

- Border and Title
 - Cell or Reference
 - Symbology
 - Title Block data from file

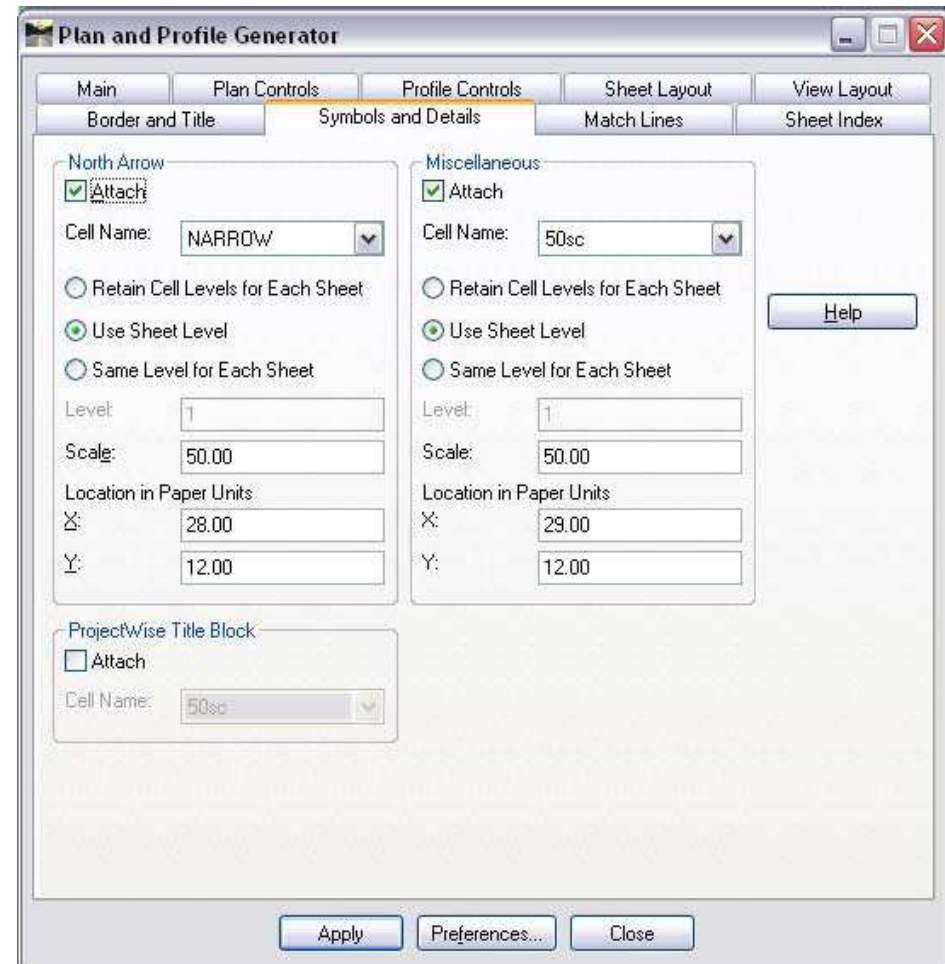
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title_block.dat - Notepad
File Edit Format Help
Male=CIV_DATE
scale=1'=50'
sheet number=CIV_SHEETNUMBER
computed=Ron
chk=DAN
dsgn=RAM
drn=RAM
federal project number=99-0455-05
state project number=700-00-12345
title=JOHNSON ROAD IMPROVEMENT PROJECT
county=JOHNSON
  
```



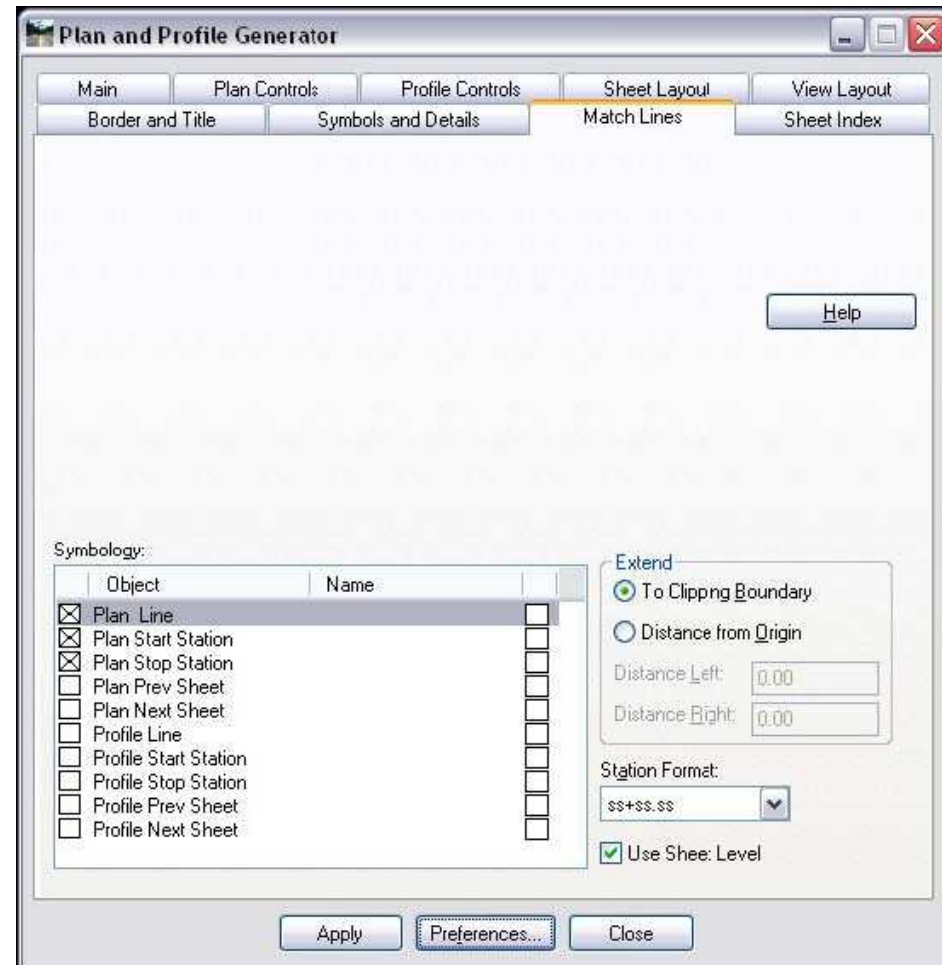
Plan and Profile Generator

- Symbols and Details
 - North Arrow
 - Graphic Scales, etc.
 - ProjectWise Titleblock Cell



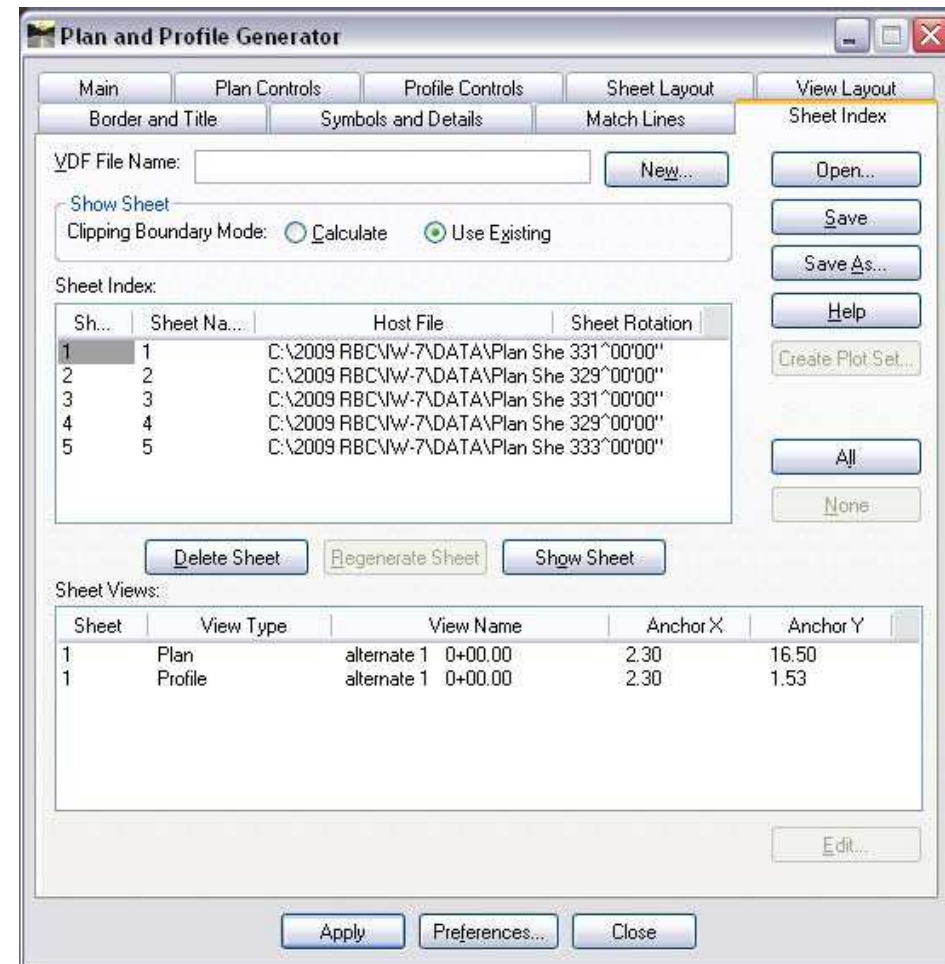
Plan and Profile Generator

- Match Lines
 - Symbology
 - Layout (Extend)
 - Station Format



Plan and Profile Generator

- Sheet Index
 - Populated after “Apply”
 - Navigate between sheets
 - Review

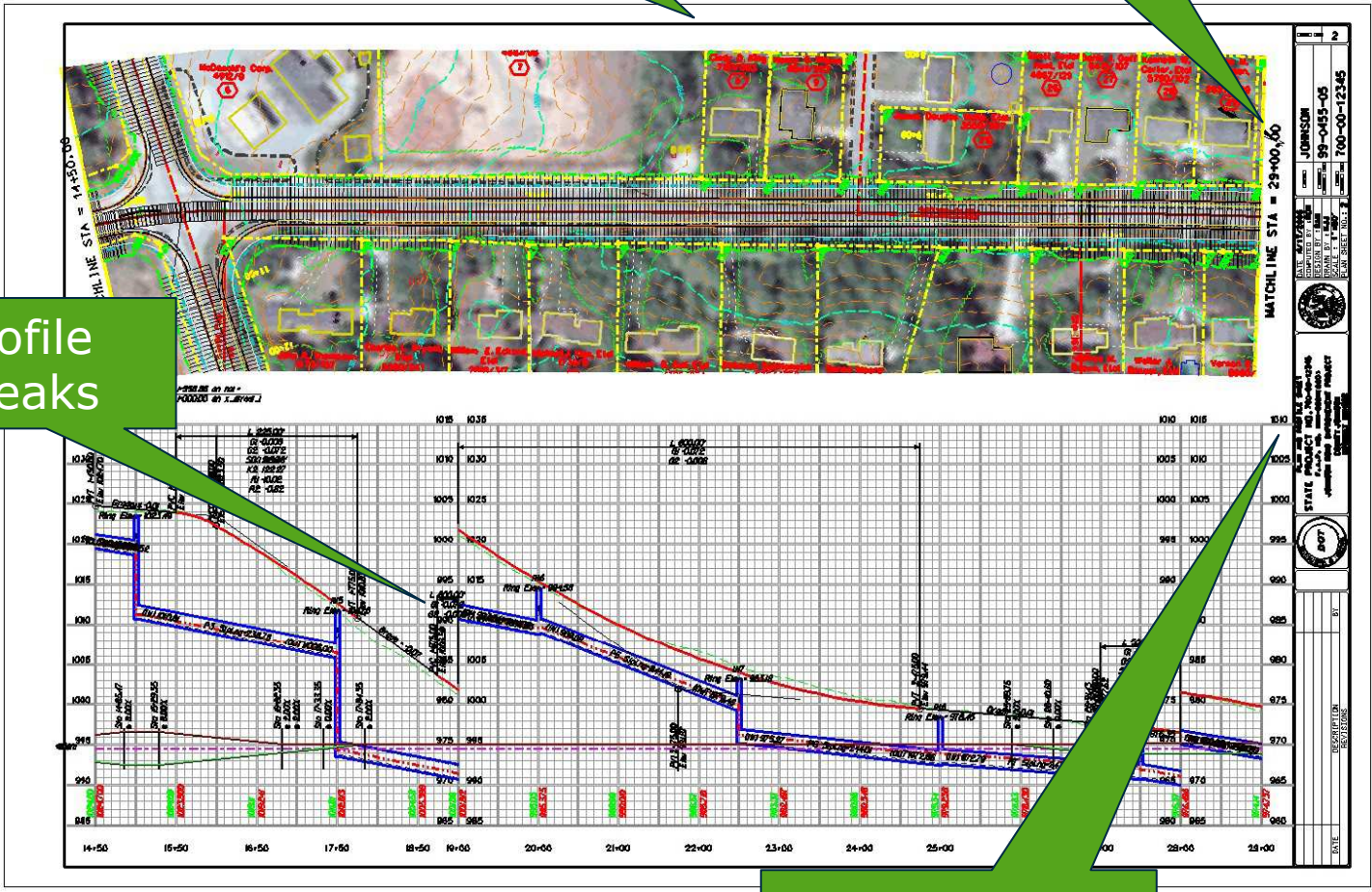


Results

Sheet Border

Match Lines

Profile Breaks



Titleblock

Demonstration

Questions?