



Working Smarter, Together

Project Explorer

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Product Manager MicroStation, PowerDraft and View

John Frampton – *Product Manager*

- Located in western Pennsylvania
- Bentley employee for over 12 years
- Over **twenty years** of design/CADD experience using and supporting **Bentley, Intergraph, and Autodesk products.**
- **CADD manager** for a very large engineering firm in Pennsylvania
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Agenda

- Project Explorer Intro
- Project Explorer Scope
 - File
 - Links
- Project Explorer MicroStation V8i SELECTseries 3 enhancements
- Closing

Question

- How many are using Project Explorer?

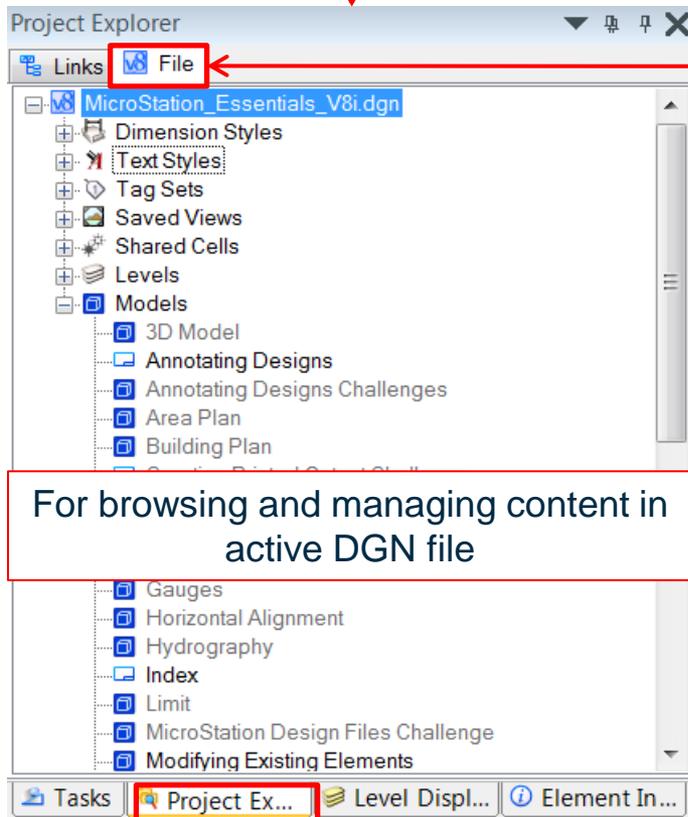
Managing Project Data

- Project Data Primarily refers to:
 - Design files and models
 - Drawing and Sheet models
 - Saved Views, References, Drawing Titles
 - Supporting documentation
 - Word documents
 - Spreadsheets
 - PDF documents
 - Raster images, etc.

Project Explorer Dialog

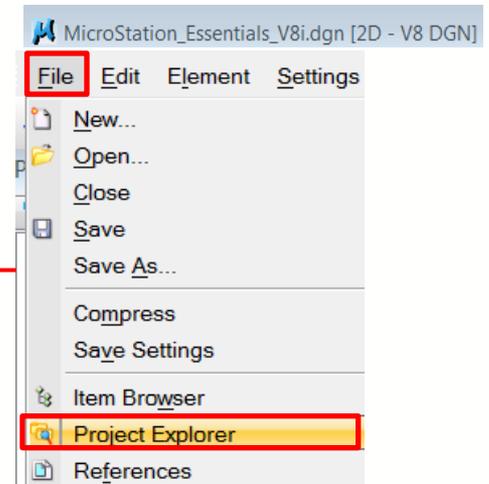


1 access



File Tab – Active DGN file data

2 access

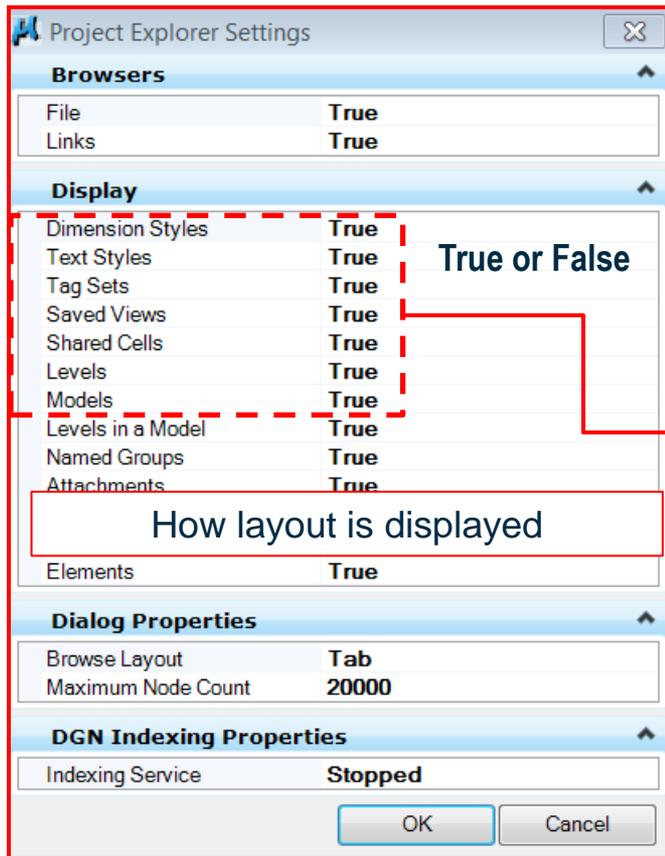


For browsing and managing content in active DGN file

Project Explorer Settings

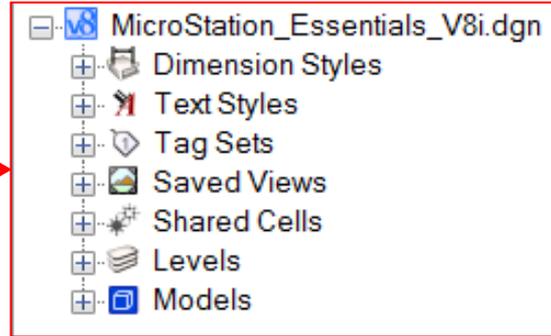
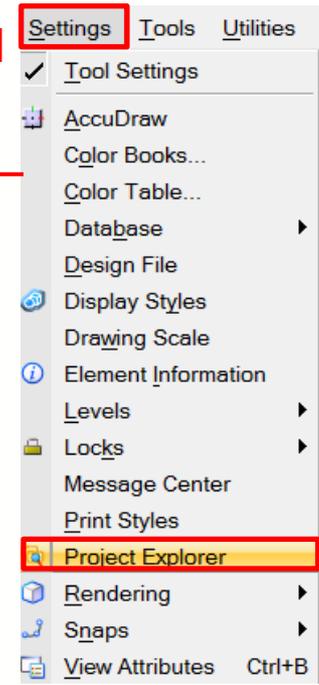
Lists the type of file content that appears in Project Explorer dialog. Show or hide by selecting true or false. **Settings > Project Explorer**

Project Explorer Settings Dialog

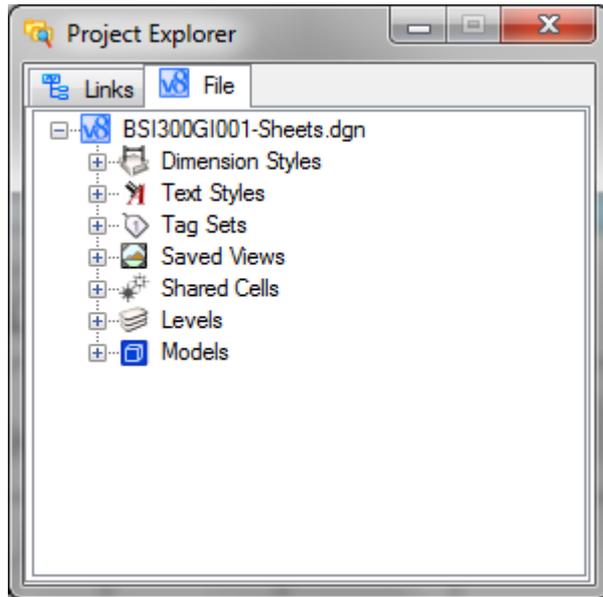


2

1



Project Explorer Scope

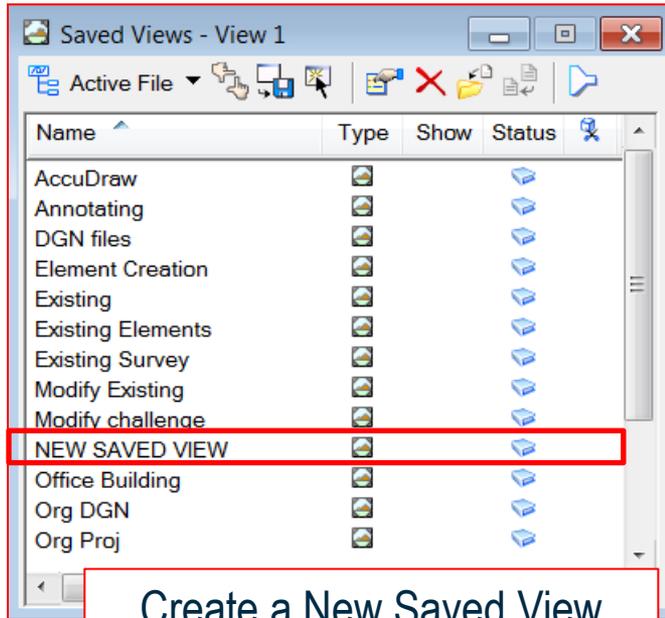


Links can be thought of a Project Data

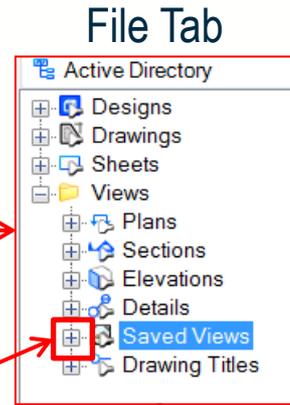
File is content of the active file

File Scope

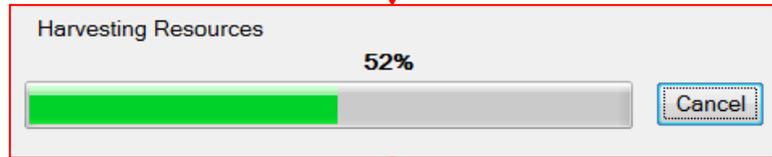
Adding a Saved View and Harvesting



Create a New Saved View



Click on +



Files are Harvested



3

Right Clicking Categories

Dimension Styles

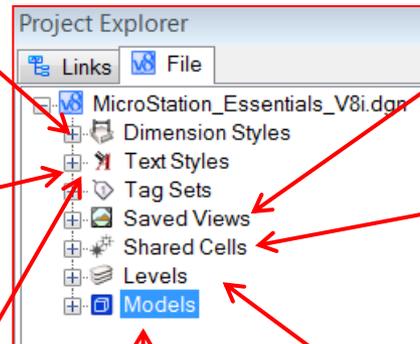
- Manage
- New
- Import
- Update from Library

Text Styles

- Manage
- New
- Import
- Update from Library

Dimension Styles

- Manage
- Attach Tags
- Edit Tags
- Review Tags
- Change Tags
- Generate Report
- Generate Template



Saved Views

- Manage

Shared Cells

- Manage
- Attach Cell Library
- Delete Unused
- Clear Point Cell
- Clear Pattern Cell
- Clear Terminator Cell

Models

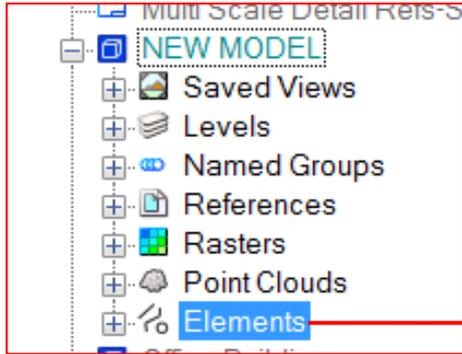
- Manage
- New
- Import

Dimension Styles

- Manage
- Manage Display
- New
- Attach
- Detach
- Import
- Export
- Update from Library

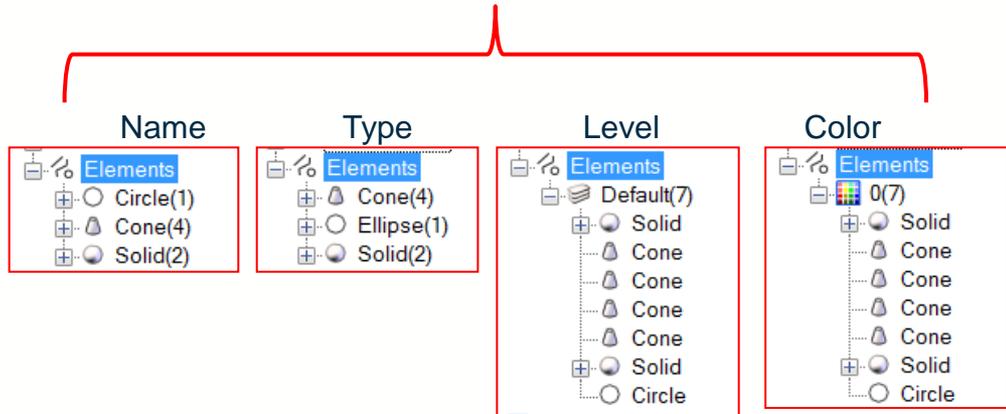
More Right Clicking

Right – clicking the Elements category – You can organize by Name, etc.



Organize By

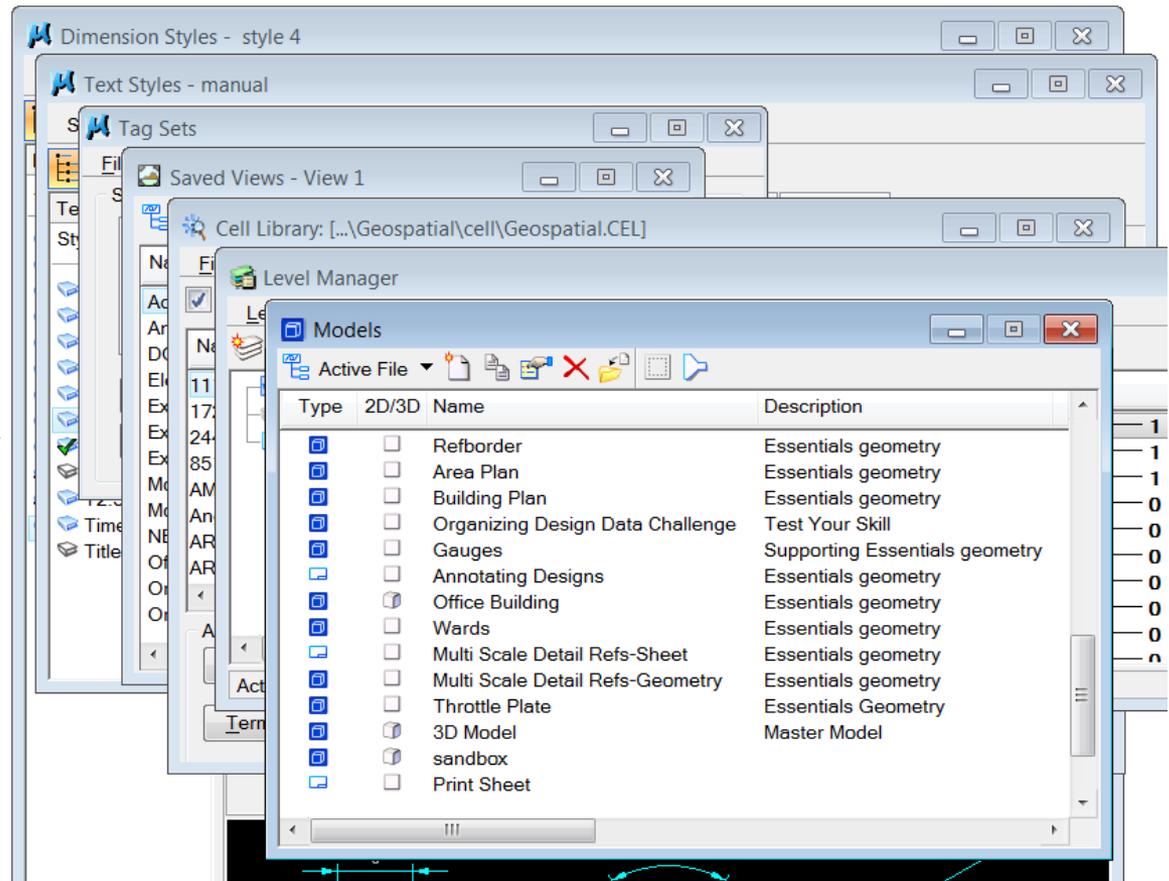
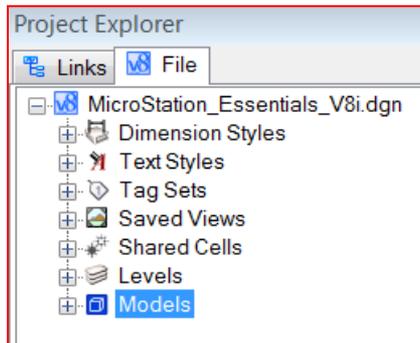
- Name
- Type
- Level
- Color
- Style
- Weight



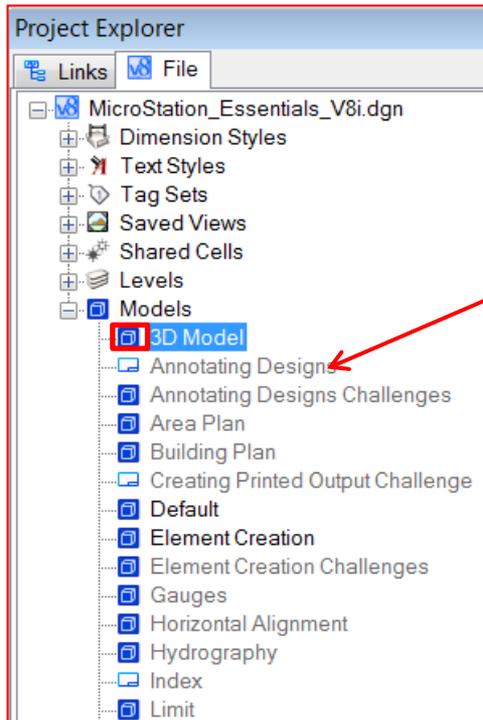
Double Clicking A Category

Associated Dialogs Open

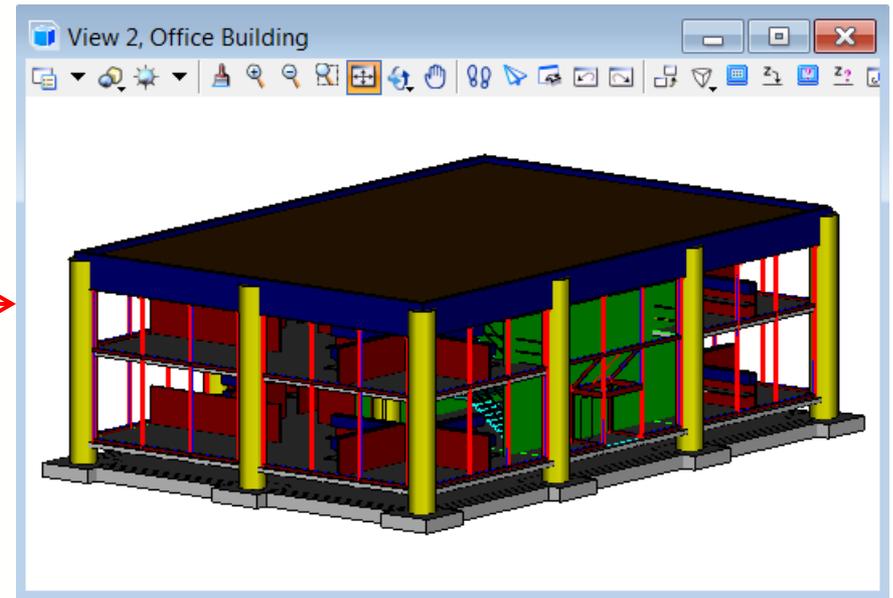
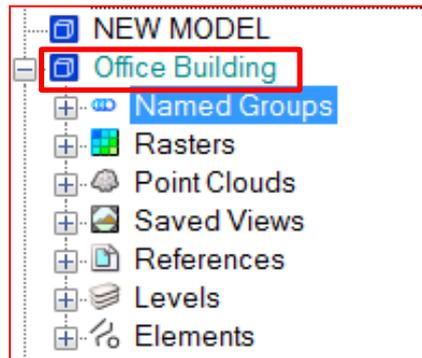
Category opens associated dialog



Right Clicking Within A Category



Double Clicking A Model



Drag & Drop As A Reference Attachment

1. Provides an easy method to create a Design or Sheet composition.
2. Can be used for models, links, saved views and references
3. Models and Saved views have visibility outside the active model

The screenshot illustrates the process of attaching a source file to a model. On the left, a tree view shows a project structure with 'NEW MODEL' highlighted. A red arrow labeled '1' points from this tree view to a central window titled 'View 2, Office Building'. This window displays a 3D architectural model of an office building. A red arrow labeled 'Drag & Drop' points from the 'NEW MODEL' item in the tree view to the 3D model. Below the 3D model, a dialog box titled 'Attach Source Files' is open. The dialog contains the text: 'You have 1 references to attach. Please select attachment method'. Below this text, there is a dropdown menu for 'Attachment Method' with 'Interactive' selected. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Drag & Drop As A Reference Attachment

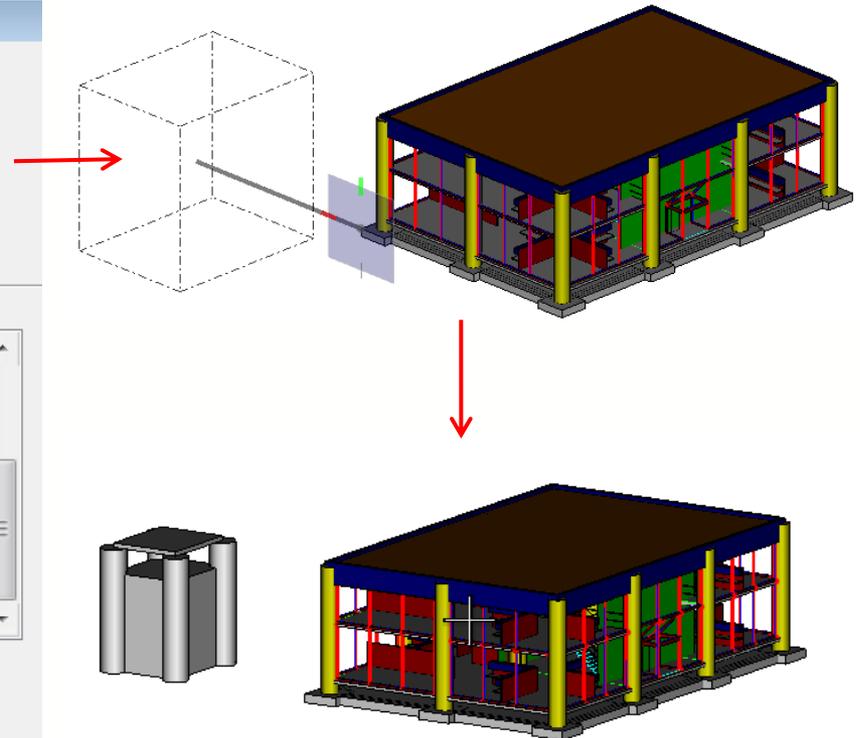
Reference Attachment Settings for MicroStation_Essentials_V8i.dgn

File Name: MicroStation_Essentials_V8i.dgn
Full Path: ...\Examples\General\dgn\MicroStation_Essentials_V8i.dgn
Model: NEW MODEL
Logical Name: Condensing Unit
Description: Standard Right Isometric

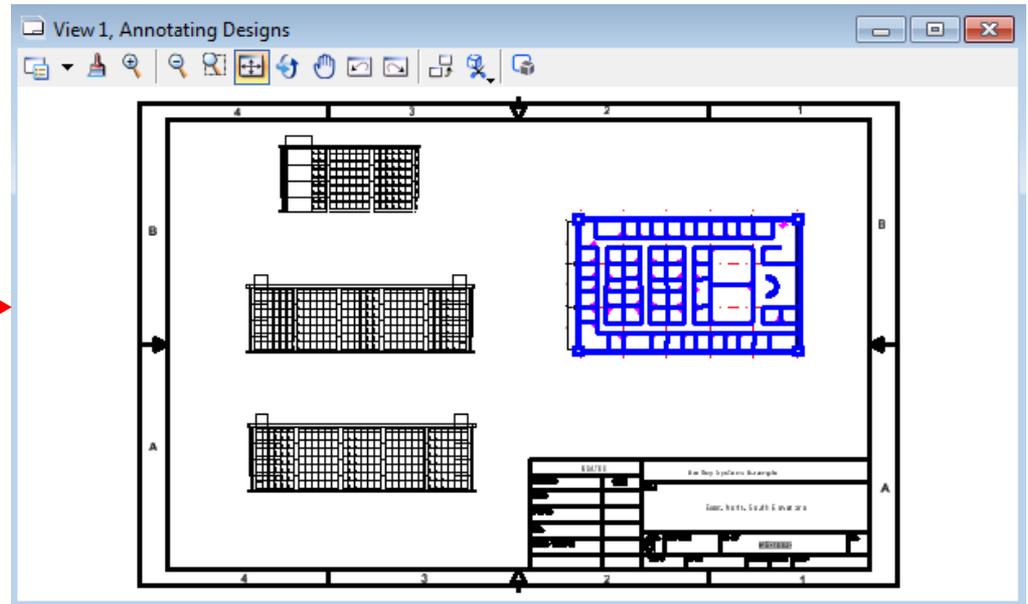
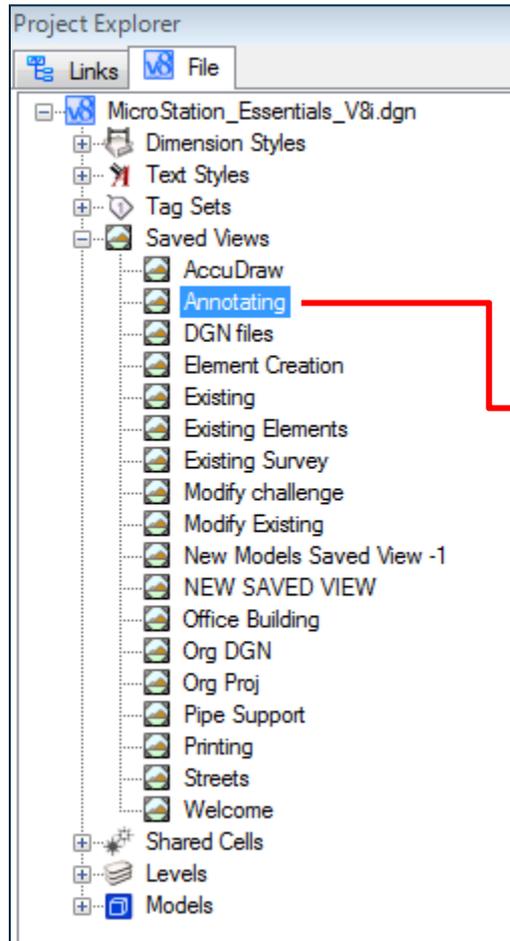
Orientation:

View	Description
Right	
Isometric	
Bottom	
Back	
Left	
Right Isometric	
⊕ Saved Views	
Named Fences (none)	

Detail Scale: Full Size 1=1
Scale (Master:Ref): 1.000000 : 1.000000

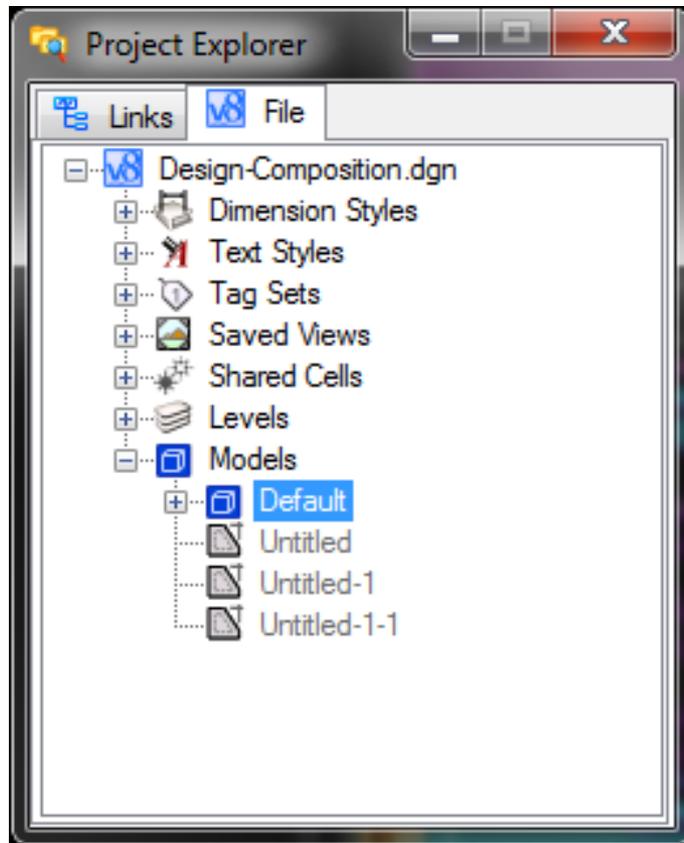


To Apply a Saved View



Double Click and Click in View to apply a Saved View

Element Information



Element Information

- Selection
 - Default

General

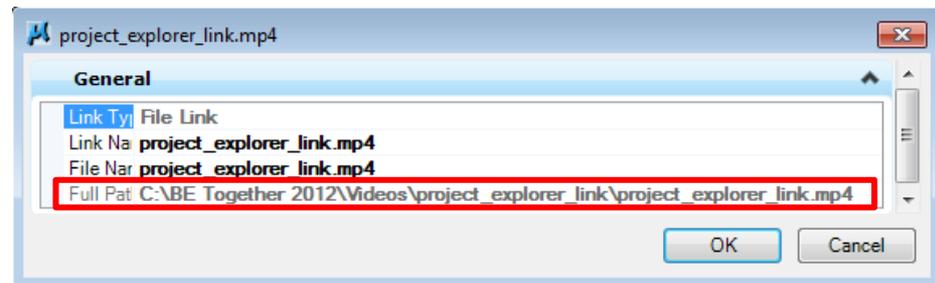
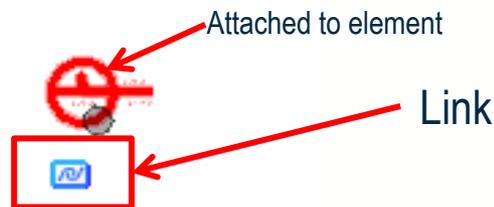
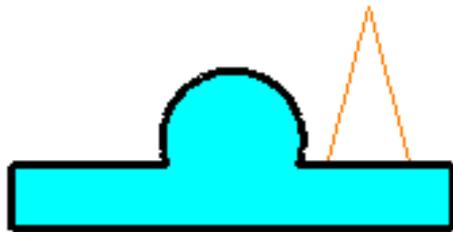
Name	Default
Type	Design
Is Active	False
Is 3D	False
Treat As 3D	False
Cell Type	Graphic
Description	Master Model
Annotation Scale	Full Size 1=1
Propagate Annotation Scale	On
Ref Logical	

Links Scope

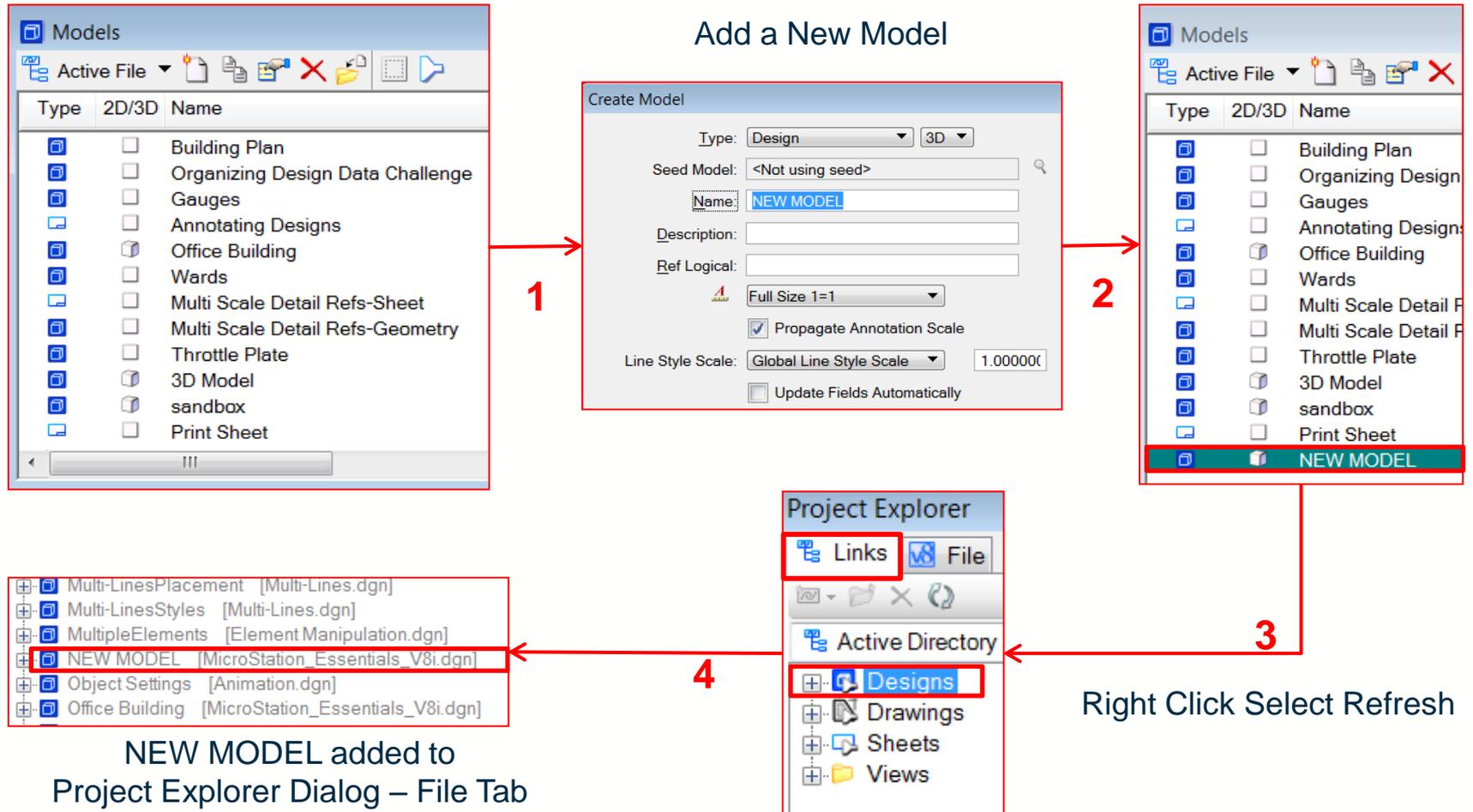
Definition: Links and Link Sets

- What is a link?
 - A pointer to project data
- What is a link set?
 - A group or set of links

Section in a Sheet model

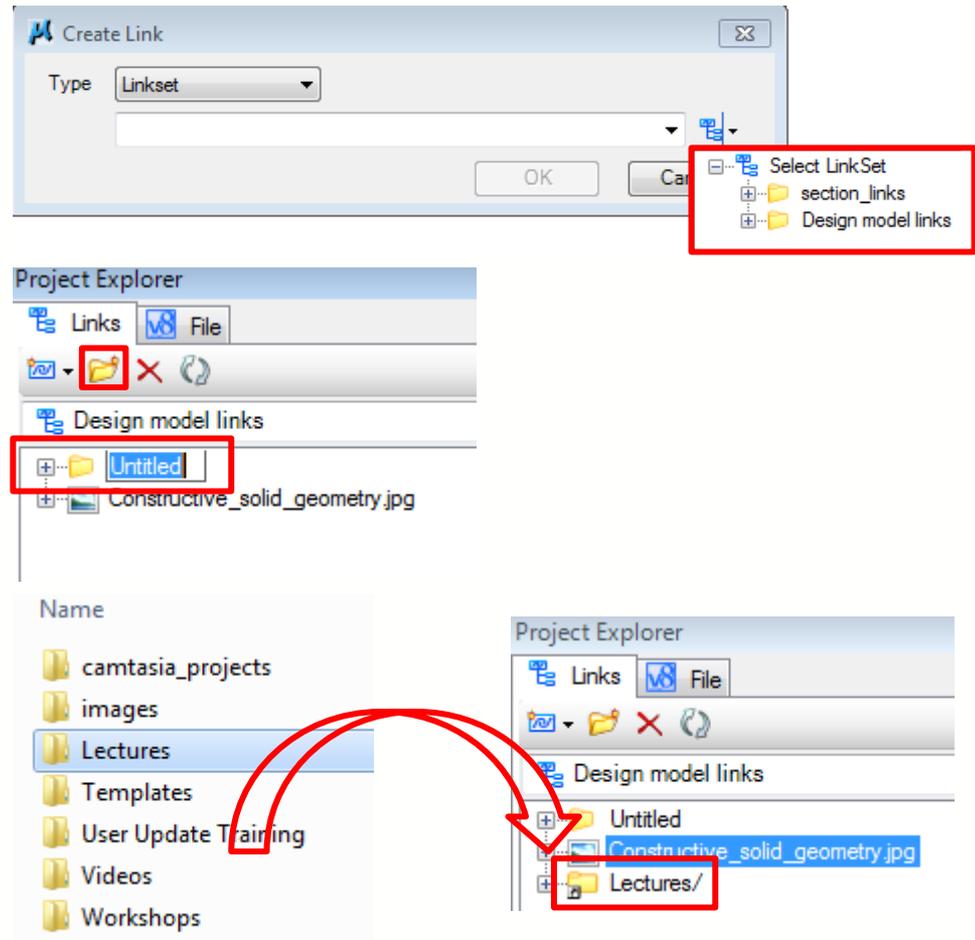


Adding Data to Active DGN File



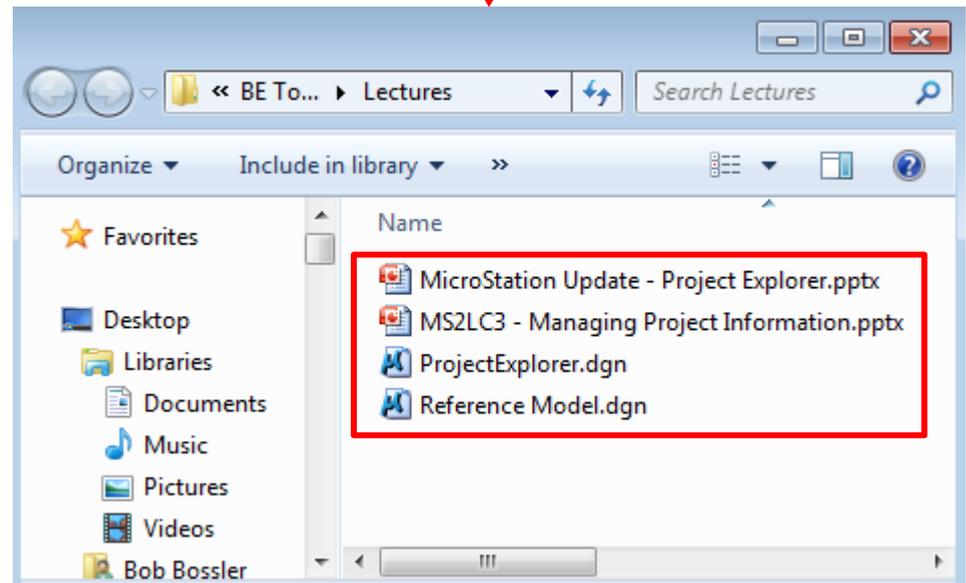
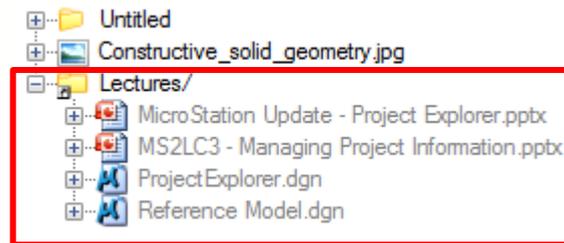
Project Explorer Creating LinksSets

- Additional Link Types
 - Link to another Link Set
 - Link to External Folder
 - Create Link Folder or Drag and Drop from Windows Explorer.



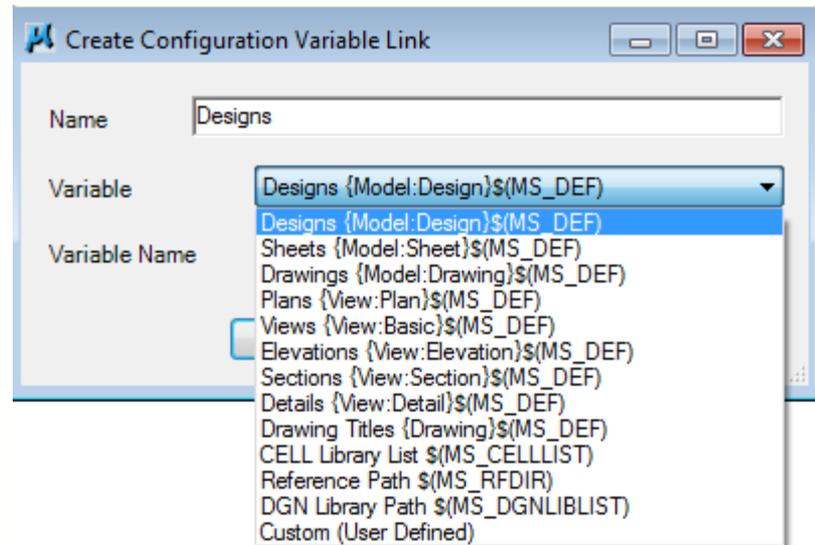
Project Explorer LinkSets

- Link to External Folder (cont.)



Project Explorer LinksSets

- Link to a Configuration Variable





Project Explorer Enhancements for SELECTseries 3

- Bentley DGN Index Service
 - Shared indexing service if enabled replaces harvesting (faster)
- File Tab Added
 - Used for browsing contents of active file, models, levels, saved views, references, detailing symbols, etc.
- File and Model Tabs removed from Element Information
 - Properties of DGN file and model available in Project Explorer File Tab
- Properties Available in Element Information Dialog
 - Right-click item in File Tab and select properties, same for Links

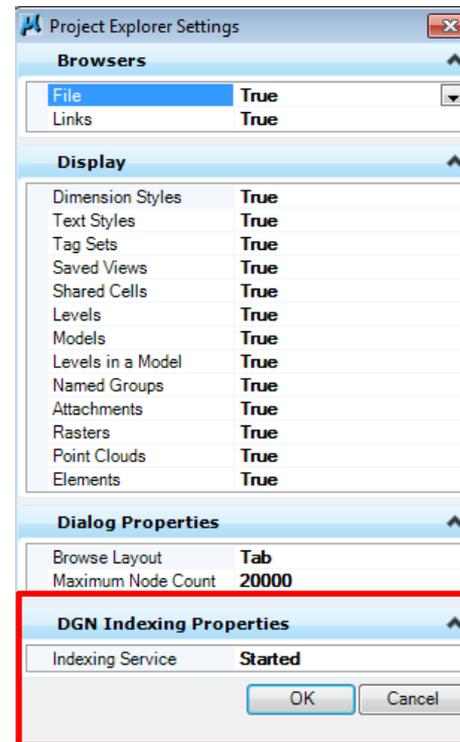
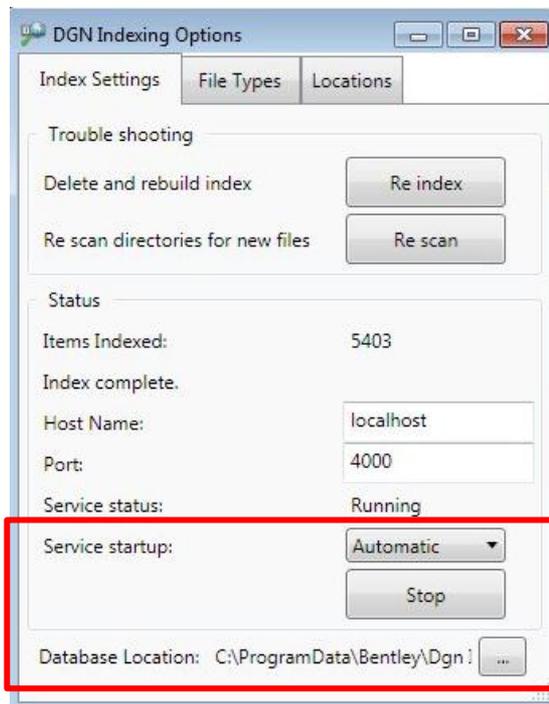
Project Explorer Enhancements for SELECTseries 3

- Harvesting from Multiple Configuration Variables
 - Separate configuration variables with a semicolon
- Harvesting from Variable and a Folder
 - Harvest configuration variables expression followed by folder name
- Harvesting of Drawing Models
 - you can harvest drawing models by adding the resource filter of the drawing model

DGN Index Service

Prior to SELECTseries 3 new data was added to Project Explorer by the Harvesting technique which updates the list for any recently added models, saved views, etc. The DGN Indexer is a shared indexing service that retrieves data from DGN files. When enabled faster results are achieved.

To index files on a remote server the DGN indexer must be installed on remote server.





Mark Penn

Profile

Blogs

MARK PENN'S POSTS

Sort by: Most Recent | **Most Views** | Most Comments

MICROSTATION V8I BLOG
(New in SS3) Discipline and Purpose Properties for Saved Views ★★★★★ 5

Mar 26, 2012 by **Mark Penn**
MicroStation V8 i (SELECTseries 3) introduces two new properties to classify Dynamic Views and Drawings - Discipline and Purpose. For a large, multi-discipline infrastructure project, it is conceivable for you to have 100's if not 1000's of Dynamic Views and Drawings. In this scenario, Discipline and Purpose properties allow that additional layer of granularity to help you filter the Dynamic Views and Drawings so they are manageable and...

MICROSTATION V8I BLOG
(New in SS3) Hypermodeling - Annotations in 3D ★★★★★ 4

Mar 20, 2012 by **Mark Penn**
Gone are the days when in a design model you could just view a model geometry and had to traverse to the sheet and drawing models each time you want to view the dimensions, annotations and other details. Now with hypermodels, you can place callouts in 3D design model and also view sheet graphics in a 3D design model, in place, automatically. This makes drawings easier to understand and interpret. The general workflow to use callouts in a project is...

MICROSTATION V8I BLOG
(New in SS3) Drawing Seeds in DGN Libraries ★★★★★ 3

Mar 20, 2012 by **Mark Penn**
The process of creating drawings and sheets is a complex operation since it involves several subsystems. The outcome is effectively a chain of objects as follows: Clip Volume > Saved View > Drawing Model > Reference Attachment in Drawing Model > Sheet Model > Reference Attachment in Sheet Model > Drawing Title. The following poster describes these objects and their relationships. In order to comply with your company's CAD standards...

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Working Smarter, Together

Project Explorer

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Product Manager MicroStation, PowerDraft and View