Tips & Tricks to Make Your Autodesk Revit® Drawings and Presentations Look Great

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Architect
Object Styles

Project Wide – Model Objects

Door Panel – Original Line Weight (When Cut in View)

Door Panel – Thicker Line Weight (When Cut in View)

Select Object & Modify Line
Object Styles
Project Wide – Annotations

Detail Callout
Original Line Weight

Select Annotation & Modify Line

Detail Callout
Modified Bold Line Weight
Object Styles

Project Wide – Create New Lines

Original “Default” Property Lines

Replace with New Line Pattern

Create or Modify Line Pattern

New Modified Property Lines
Object Styles
Material Settings - Project Wide

Original “Default” Hidden Line Elevation
Duplicate Most Similar Material
Select Surface Pattern & Color
Presentation Hidden Line Elevation
Printed Hidden Line Elevation
Object Styles

Material Settings – View Specific Overrides

Original “Default” Hidden Line Elevation

Select Surface Pattern & Color

Printed Hidden Line Elevation
Object Styles

Materials

Original “Default” Hidden View

Modified View with Surface Pattern Overrides
Object Styles

Line Styles (Silhouette)

Select Line Type for all “Edges”
Object Styles

Half Tone (To Communicate New vs Existing)

Use ‘Half Tone’ setting to Override Surface Patterns for Existing Floor Tile

Select Half Tone
Object Styles

Half Tone (To Indicate Depth and Materials)

Use ‘Half Tone’ setting to Override Surface Patterns for 3D Layering to Create Depth
Object Styles

Half Tone & Transparency (To Vary Intensity and Visibility)

Use Half Tone and Transparency settings to downplay background clutter and call attention to important items on a drawing.
Project View Callouts
Sheet Layout & Numbering Method

Use a Call Out Detail Number (View 1) vs a North Arrow for Referenced Plan View and Then Number Each Associated Detail or Elevation Callout as Extents 1.1, 1.2, 1.3 etc.
Project Cover Sheets
Add Images & Artwork to Create Interest

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SUNRISE BANK OF ARIZONA BUSINESS CENTER

AKDHC - ST. MARY'S OFFICE
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ST. MARY’S MEDICAL PLAZA

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FURTHER ADDITION

CONQUISADOR EXECUTIVE OFFICES
Section 2

Advanced Graphic Tools & Techniques
Explore and Take Advantage of Revit’s ‘out-of-the-box’ Possibilities
Graphic Display Options

Visual Styles – Project Wide (Hidden Line with Surface Patterns)

Select Surface Pattern & Color

Hidden Line (Default)

Hidden Line with Accent Surfaces
Graphic Display Options

Visual Styles – View Specific (Hidden Line with Surface Overrides)

Select Color Fill Surface Pattern Overrides

Hidden Line with Accent Surfaces

Hidden Line (Default)
Graphic Display Options

Model – Silhouettes (Profile Edges)

Select Line Style
Graphic Display Options

Model – Sketchy Lines (Jitter & Line Extension Crossing)

Turn on and Adjust Jitter & Extension
Graphic Display Options

Model – Anti-Aliasing (Smoothing Angled Lines)

Hidden Line (Default)

Hidden Line with Anti-Aliasing

Select Smooth Lines with Anti-Aliasing
Graphic Display Options

Model - Transparency

Adjust Transparency % Amount
Graphic Display Options

Visual Styles – Ambient Shadows

Hidden Line (Default)

Hidden Line w/ Ambient Shadows
Graphic Display Options
Visual Styles - Realistic with Edges
Graphic Display Options

Visual Styles - Realistic with RPC Content Visible
Graphic Display Options
Visual Styles – Photo & Sky Backgrounds

Sky Background

Select “Sky”

Select “Photo” and then Customize Image

Adjust Photo Image for Best Fit

Photo Background
Graphic Display Options
Visual Styles – Backgrounds (Gradient)

Select “Gradient” and Then Colors
Graphic Display Options

Visual Styles – Backgrounds (All views)

- Photo
- None
- Gradient
- Sky
Graphic Display Options
Shadow & Lighting (Sun Settings)

Bold, Dynamic & Good Depth

Weak, Dull & Flat
Design Options
Preliminary Design & Construction
Documents

Primary
(Primary Bid)

Option
(Alternate Bid)
Phase Settings
Combine Different Phases to Create Coordination Views

Create New Phase Filter

Modify How Model Elements Appear in Newly Created Phase Filter
Section 3

Basic & Advanced Presentation Techniques
Explore Revit’s ‘out-of-the-box’ Possibilities
Graphic Display Options
Presentation Based on Level of Design

Conceptual Design

Design Development

Final Design
Graphic Display Options
Presentation Based on Level of Design

Conceptual Design

Design Development
Graphic Techniques
Create Visually Dynamic Views

Create Unique & Strong Images by Using Various Eye Levels and Target Elevations, Forcing the Perspective to Create Visual Interest

Modify Eye & Target Elevations
Graphic Techniques
Put Yourself “in” the View

Place Yourself Inside the Project in Order to Add Human Scale to Personalize Your Design
Graphic Techniques
Multiple Elevations with Gradient Background
Graphic Techniques
Multiple Overlaid Views with Varied Transparency
Graphic Techniques
Multiple Overlaid Views with Phases and Varied Transparency
Graphic Techniques
Multiple Overlaid Views with Imported DWG Files

Revit Trees & Plants
Imported dwg Drawing File
(Partially Exploded to Remove Original Plant Callouts)
View Callout From Revit Site Plan
Graphic Techniques

Multiple Plan Views with Different Cut Planes

Multiple Aligned Views with only One View Title Visible (Place Annotations on One View, Dragging Levels, Section Cuts & Dimensions Across Both Plans)
Plants & Trees

Rendered & Non-Rendered Views

Plan for Rendered Views with Detail Level Set to “Course”

Rendered and Non-Rendered Views Using Duplicate Plants & Trees
(Control Plant Visibility by Detail Level)

Plan for Non-Rendered Views with Detail Level Set to “Fine”
Plants & Trees

Rendered Views

Set Up View for Rendering Using RPC Plants & Trees
(“Course” or “Medium” Detail Level Setting)
Plants & Trees

Non-Rendered Views

Non-Rendered Views Using Alternate Plants & Trees which are not RPC Content (“Fine” Detail Level Setting)
Plants & Trees
Non-Rendered Views (Mixed Types of Plants)

Non-Rendered Views Using Both Alternate Plants & Trees with Some RPC Content  (Adjusting Visibility Settings & Hiding View Based Visibility)

Edit Family to Select Visibility Settings
Plants & Trees
Non-Rendered Views (Mixed Types of Plants)
In the family editor for “Dwayn”, import a DWG file (block) of a person who closely resembles the RPC image’s overall posture and gender. Carefully align the RPC and DWG images so that they are oriented in the same direction and match the same level. Then, go to an isometric or elevation view and create a new generic wall or other similar mass element, with only a 1/8” thickness. Trace the DWG images profile. Align the new mass element with the DWG block and RPC place holder with reference to orientation and level.

As an addition feature, once this family is placed in a view, you can control and adjust the thin mass transparency and tone darkness depending on the presentation.
People

Rendered & Realistic Views

Once complete, add the 3 instance parameters (yes/no) to control each of the images visibility.

This way, all 3 may be visible, or just one, without worrying about the type of view or the course/medium/detail settings as we did with Trees & Plants.
People
Non-Rendered Views

Non-Rendered Views Using Mass and/or Line work while hiding RPC place holder (Select Visibility with On/Off Parameters)
Rendered Views Using RPC images or Mass and/or Line Work
(Select Visibility with On/Off Parameters)
Section 4

Rendering Techniques
Explore Revit’s ‘out-of-the-box’ Possibilities
Rendering Techniques
Exterior Views
Rendering Techniques

Interior Views
Rendering Techniques

Sun Settings
Rendering Techniques

Sun, Lighting and Post Rendering Exposer Settings
Rendering Techniques
Sun, Lighting and Post Rendering Exposer Settings
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Sun, Lighting and Post Rendering Exposer Settings
Rendering Techniques

Photo Image Underlays
Rendering Techniques
Photo Image Underlays
Rendering Techniques

Photo Image Underlays (Adding Real Context)

Real Photo Background

Exported Revit Rendering (.tiff or .png)

Final Composite Overlaid Image
Rendering Techniques

Photo Image Underlay Process

Open a New Drafting View and Place “Alpha” Channel Rendering on top of a background photo.

Exported “Alpha” Channel Image, saved as .png File

Select Background

Slide Under Rendering

Adjust & Trim Final Image
Rendering Techniques

Rendered Elevations – Day & Night Views
Rendering Techniques

Rendered Plan Views
Rendering Techniques

Rendered Elevations – Reversed Background

Set Background to Color - Solid Black
Practice Makes Perfect!

My First Revit® Presentation in 2003
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