Practical Digital Workflows for SME Architecture & Design Firms

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Datech Solutions

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- Designer, Architectural Technologist & BIM Manager
- Technical Consultant – Autodesk Distribution
- 16 Years in Architecture Industry
- BIM Implementation for SME Firms
- TUD Masters in BIM Management. 2017
- BSc. Architectural Technology 2009
- Co-Founder of www.archly.ie

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Formit - D:/_cloud/autodesk/Formit - Documents/Datasets/IDG/025 3000 welton/20190816 3000 welton.axm*
File Edit View Create Design Tools Settings Energy Analysis Collaboration Window Info
Scenes
Scene
Scene 0
Scene 1
Scene 2
Scene 3
Scene 4
FABRICATION LABS

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Agenda

- **Revit 2022 Updates**
- **FormIt Pro Introduction & Overview**
- **FormIt Pro to Revit Workflow**
- **Infraworks – Model Builder Workflow**
- **Infraworks to FormIt Pro Workflow & Revit**

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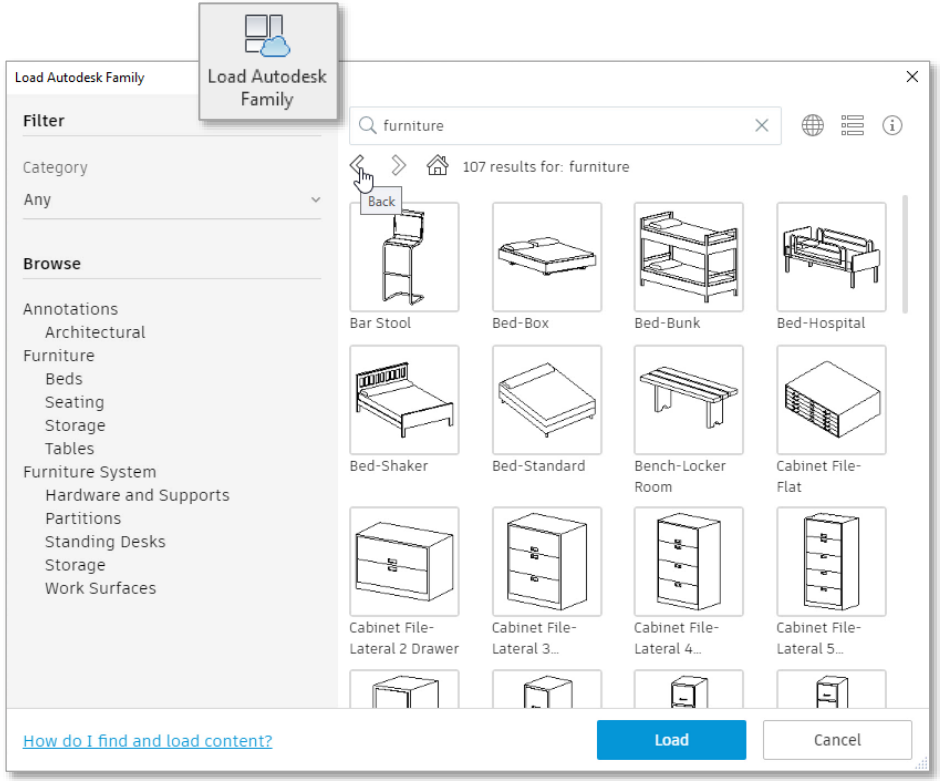
Design Productivity

Autodesk Revit 2022

Load Autodesk Family

- No longer a technology preview
- Sequential search facets display each criterion added to the search
- New buttons navigate the sequence



Find the right family content more quickly

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Interoperability

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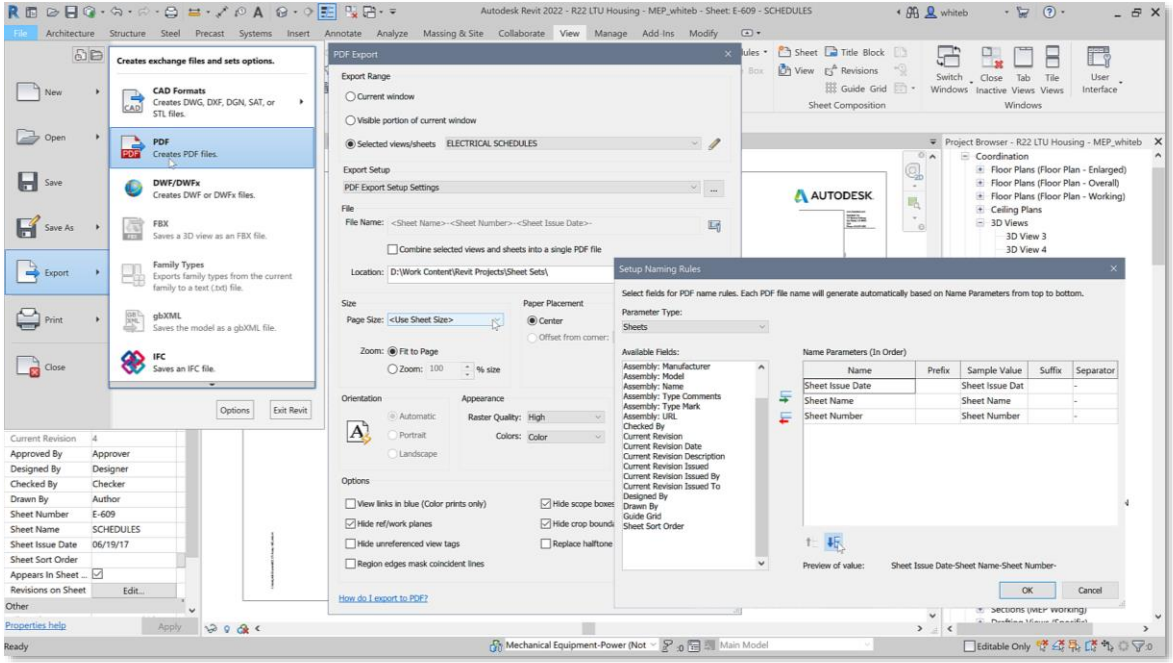
Native 2D PDF Export

- Configurable 2D PDF export
- Set up PDF naming rules within the Export Setup
- Generate PDF file names automatically from project or shared parameters
- Detect output size and orientation automatically



Native Revit PDF exporter improves documentation efficiency

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Interoperability

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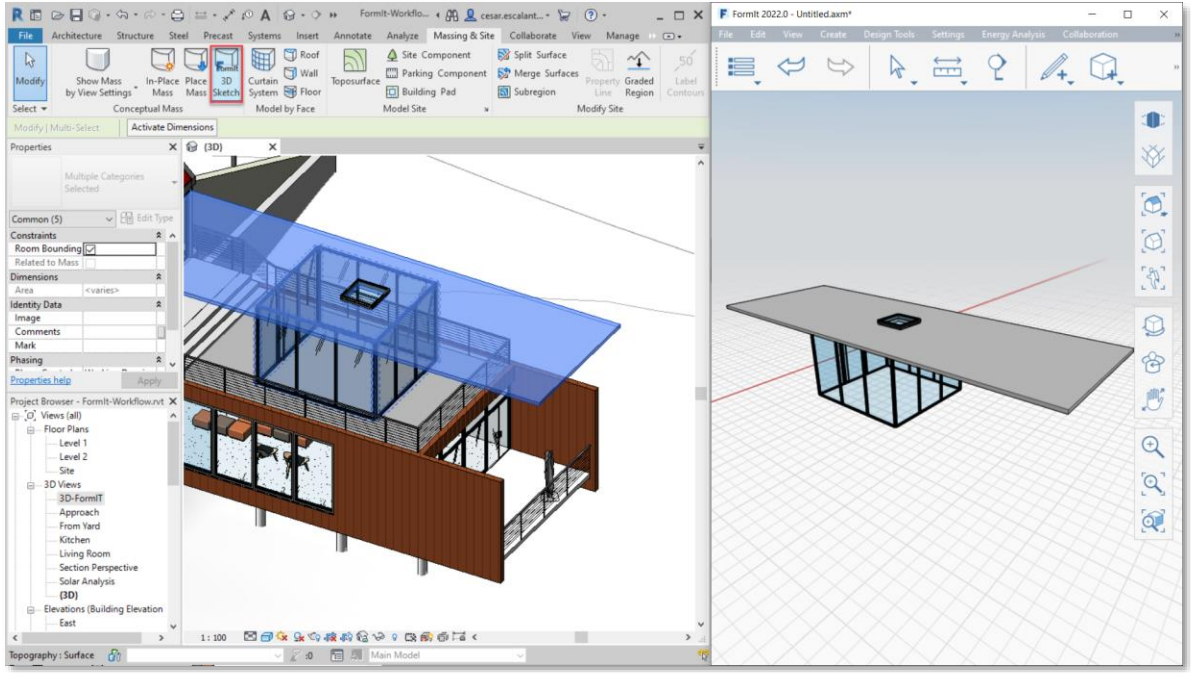
3D Sketch and Send to Revit with FormIt Pro

- Translate Revit geometry into FormIt using the new 3D Sketch tool
- Send FormIt geometry into Revit, preserving materials and layers
- Control FormIt layers via Visibility/Graphics



Improve conceptual design workflows with seamless FormIt Pro integration

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Interoperability

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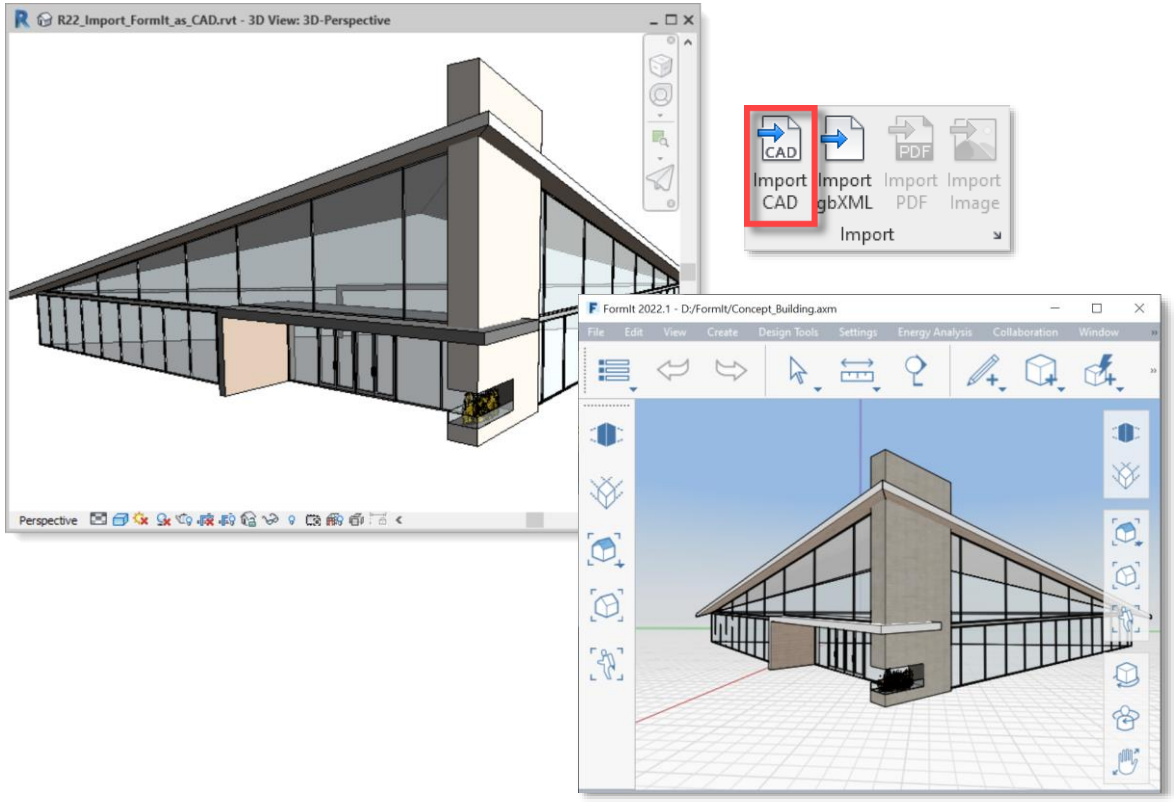
Import FormIt as a CAD Format

- Import AXM files with preserved materials, layers and group definitions
- Control the display of layers via Visibility/Graphics
- Faster performance



Improve conceptual design workflows with FormIt (AXM) import

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Interoperability

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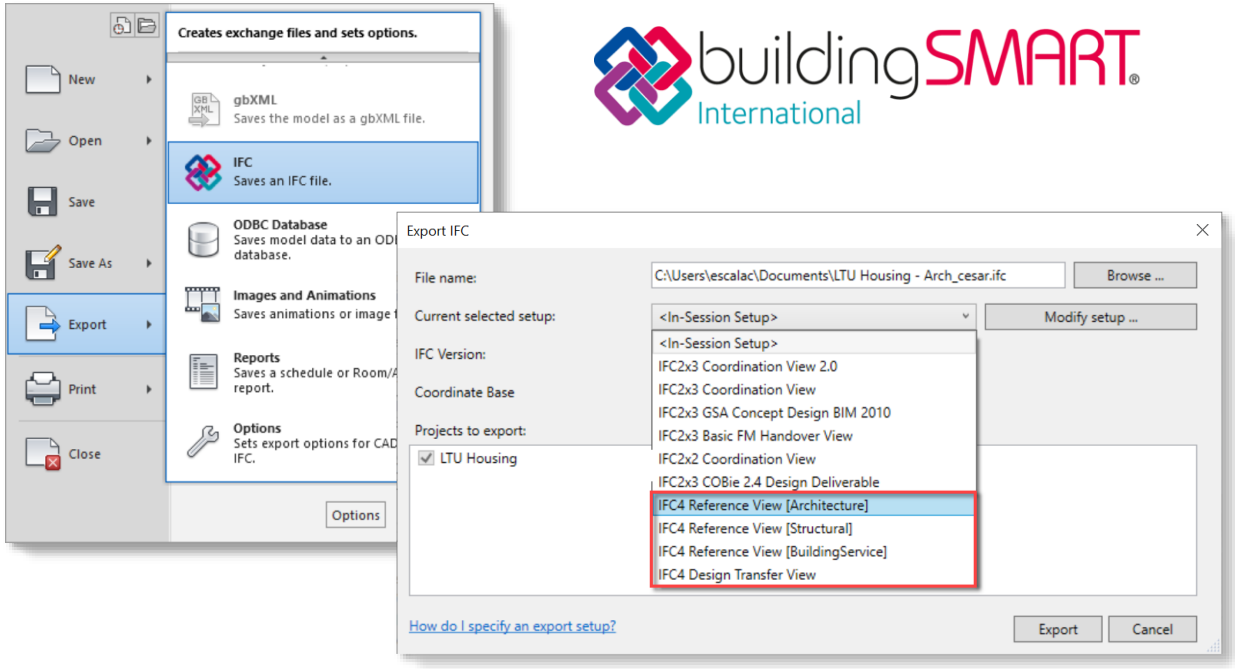
IFC4 Certifications

- Achieved IFC4 export certifications for Architecture and Structural Reference Views
- Improved the IFC4 export UI to provide better support for the IFC4 Geographic Coordinate Reference Information



buildingSMART International

Improved interoperability workflows with updated IFC4 certifications

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Interoperability

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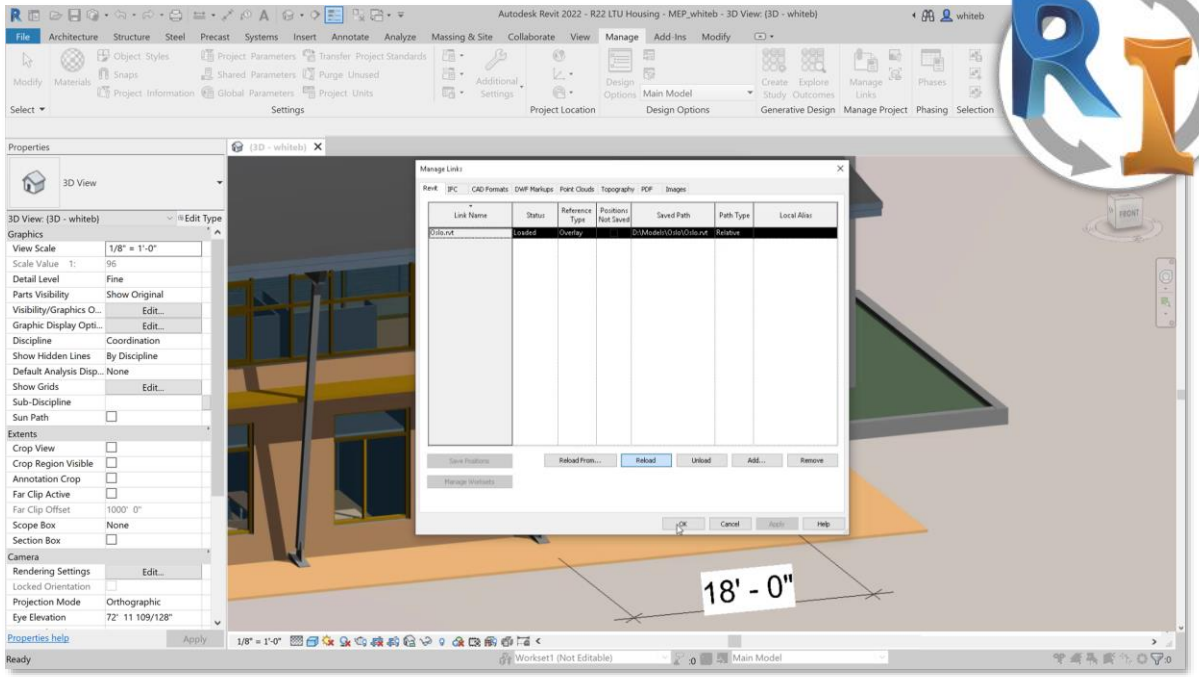
Inventor to Revit Models

- Link Inventor Assemblies as Revit Models
- Nameable Reference Geometry
- Persistent Tags for DirectShapes



Improved interoperability between Revit and Inventor

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Documentation Efficiency

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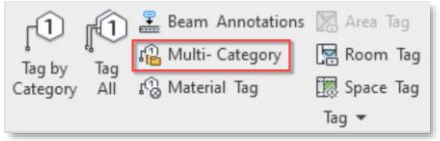
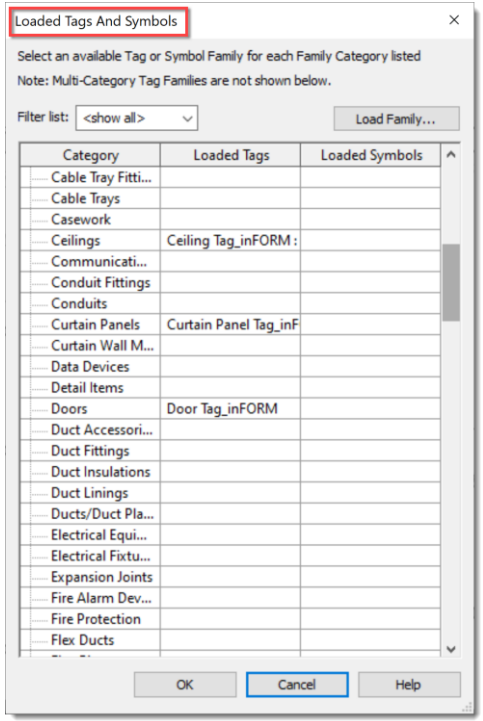
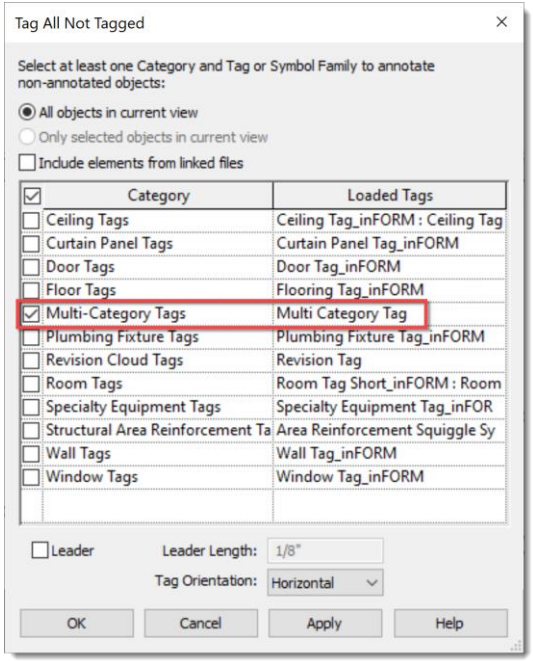
Multi-category Tag for All Taggable Categories

- Apply a multi-category annotation to all taggable elements
- Use shared parameters in multi-category tags
- Additional categories include stair subcategories, structural connections, structural internal loads, and more







Improve efficiency when tagging elements across multiple categories

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Documentation Efficiency

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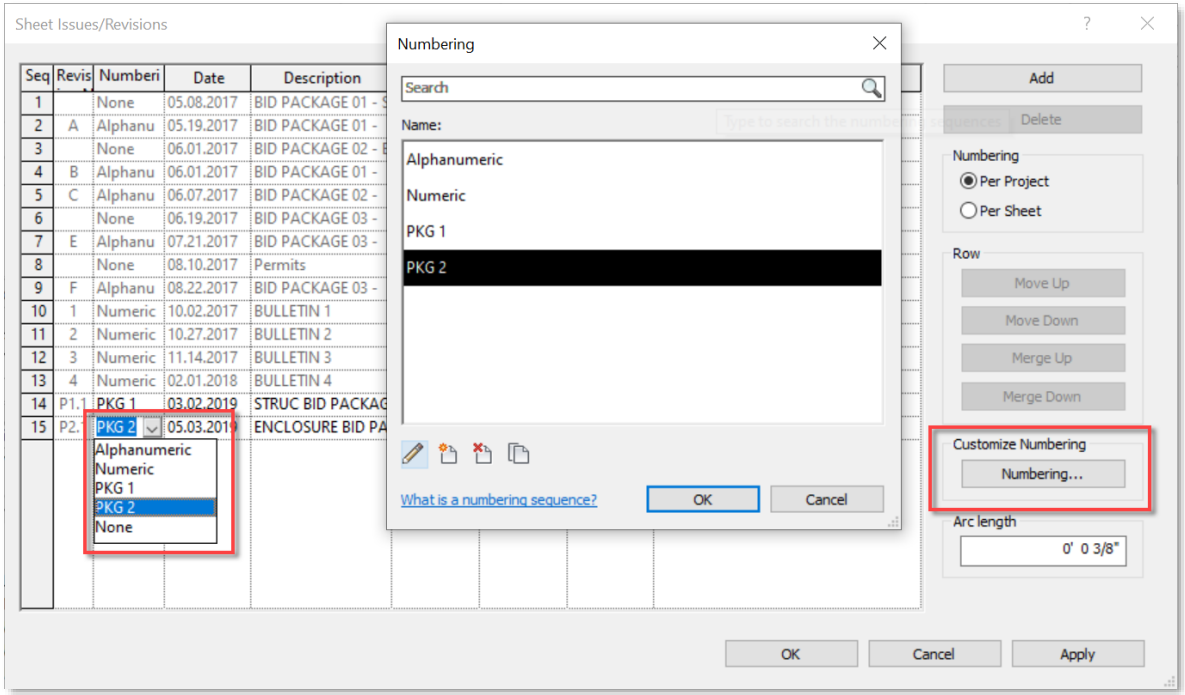
Revision Numbering Flexibility Enhancements

- Create custom revision numbering sequences
- Meet ISO 19650 and/or local standard requirements
- Add a prefix or suffix to denote a project stage
- Share using the Transfer Project Standards tools



Improve documentation with flexible revision numbering sequences

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Documentation Efficiency

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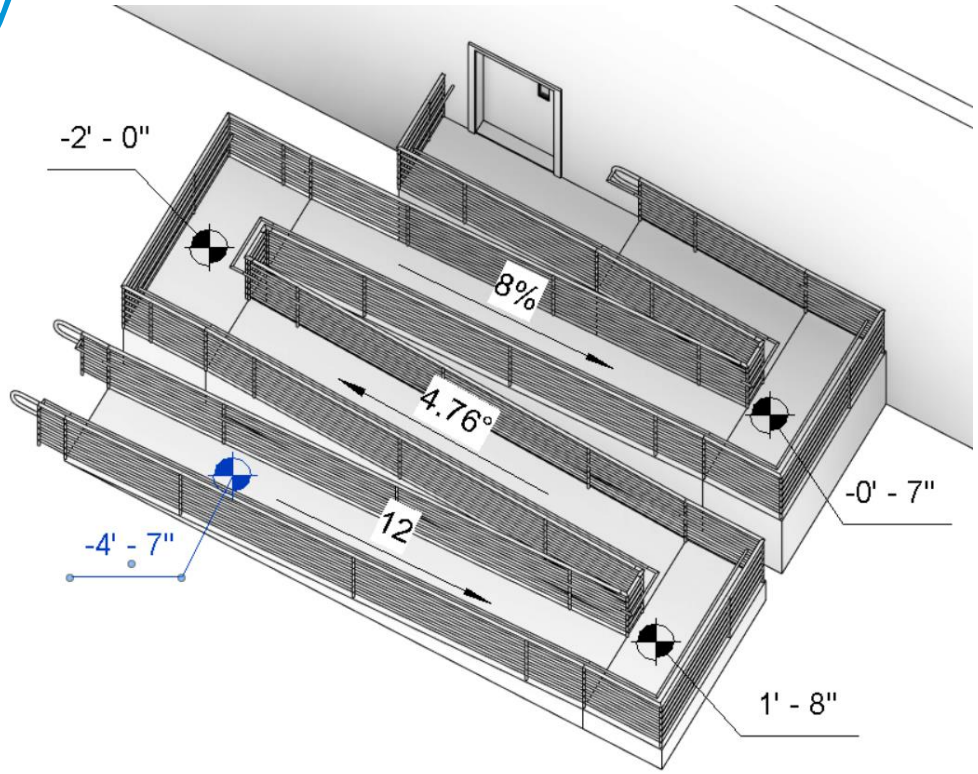
Spot Slopes and Elevations on Ramps

- Add spot slope spot elevation annotations on a ramp run in plans, elevations, sections, and 3D views
- Customize the annotation type parameters to meet documentation standards



Achieve better documentation with spot slopes and elevation on ramps

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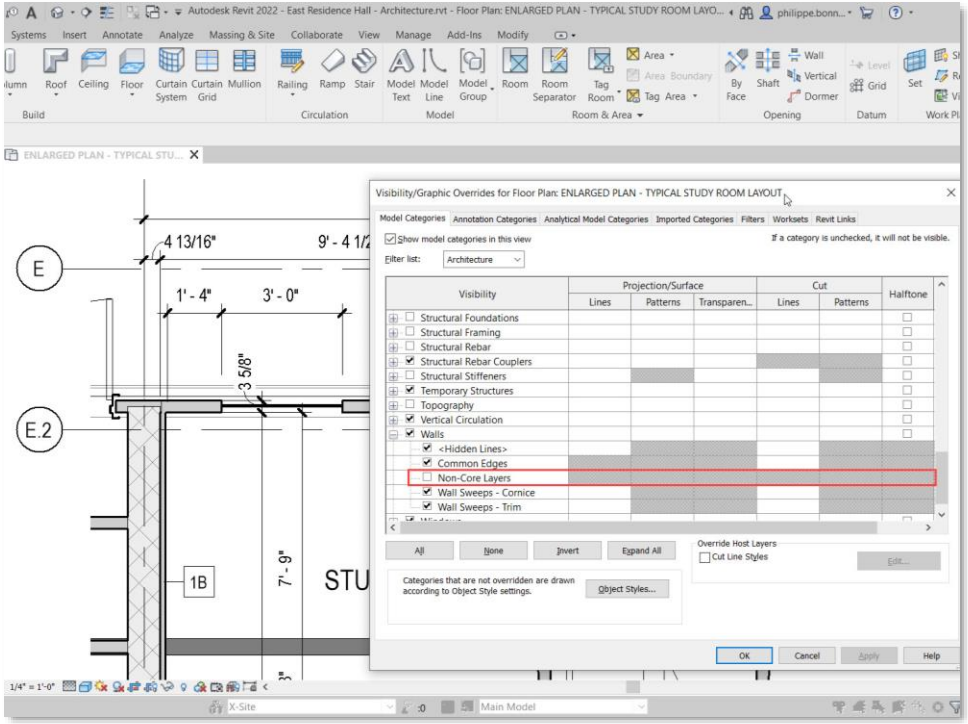
Show Wall Core Only in Plan Views

- Display a simplified representation of walls in your 2D plan views
- New “Non-Core Layers” option available under Walls in the Visibility/Graphics dialog box
- Wall layers located between core boundaries remain visible



Quickly refine plan views to display wall core layers only

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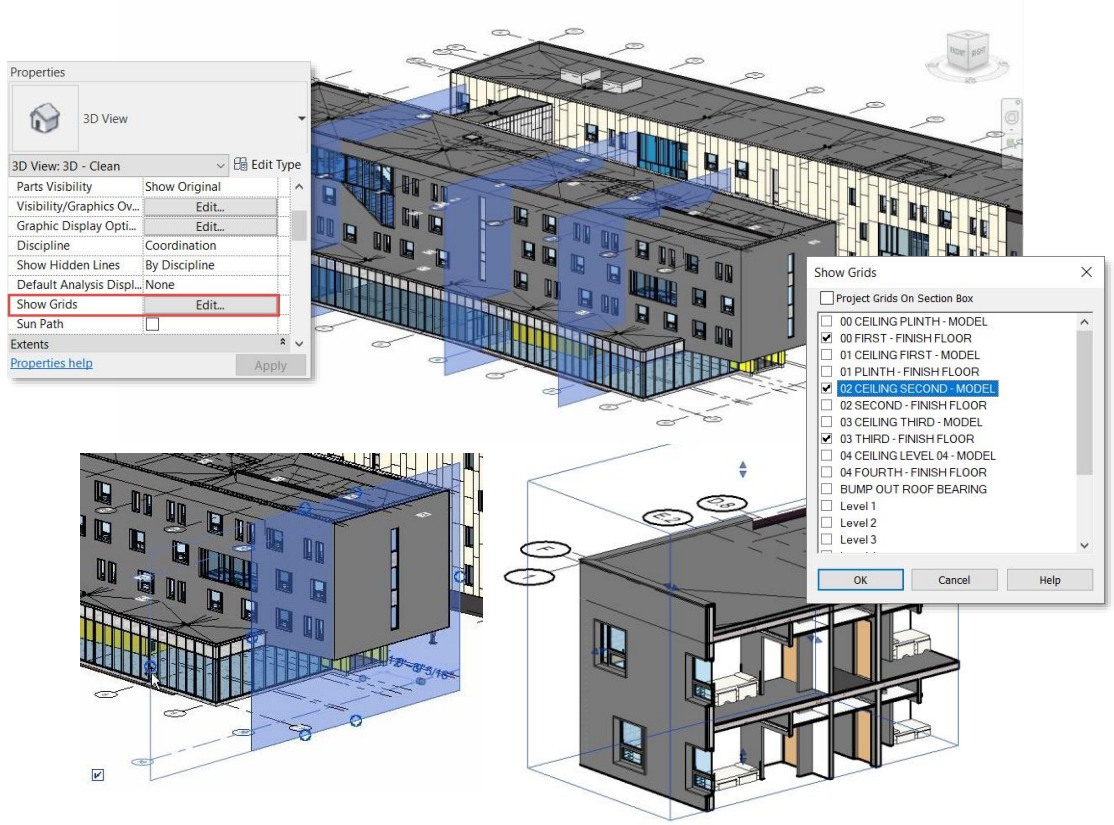
Grids in 3D Views

- Display grid lines in your 3D views
- *Show Grids* parameter in the Properties palette
- Only grids that intersect selected levels appear in the view
- Grid planes are available on hover or selection



Work with grids in 3D views

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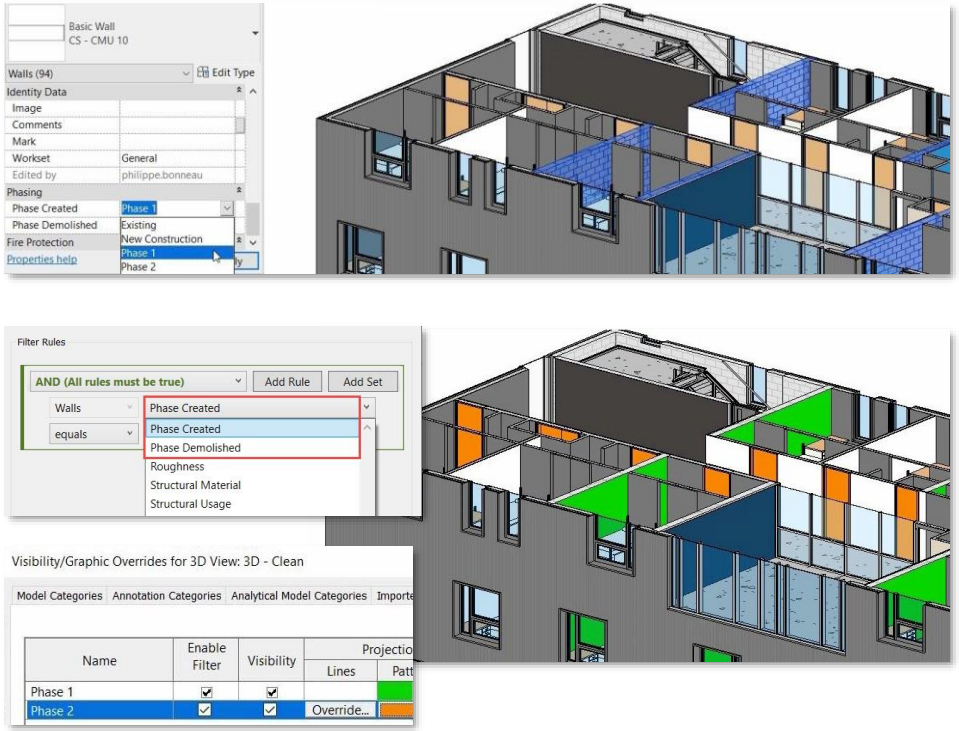
Phase Parameters in View Filters

- Support phases in view filters
- Easily locate elements and understand their phases in your model
- Two new filter rules:
  - Phase Created
  - Phase Demolished



Take advantage of phase parameters in view filters

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Documentation Efficiency

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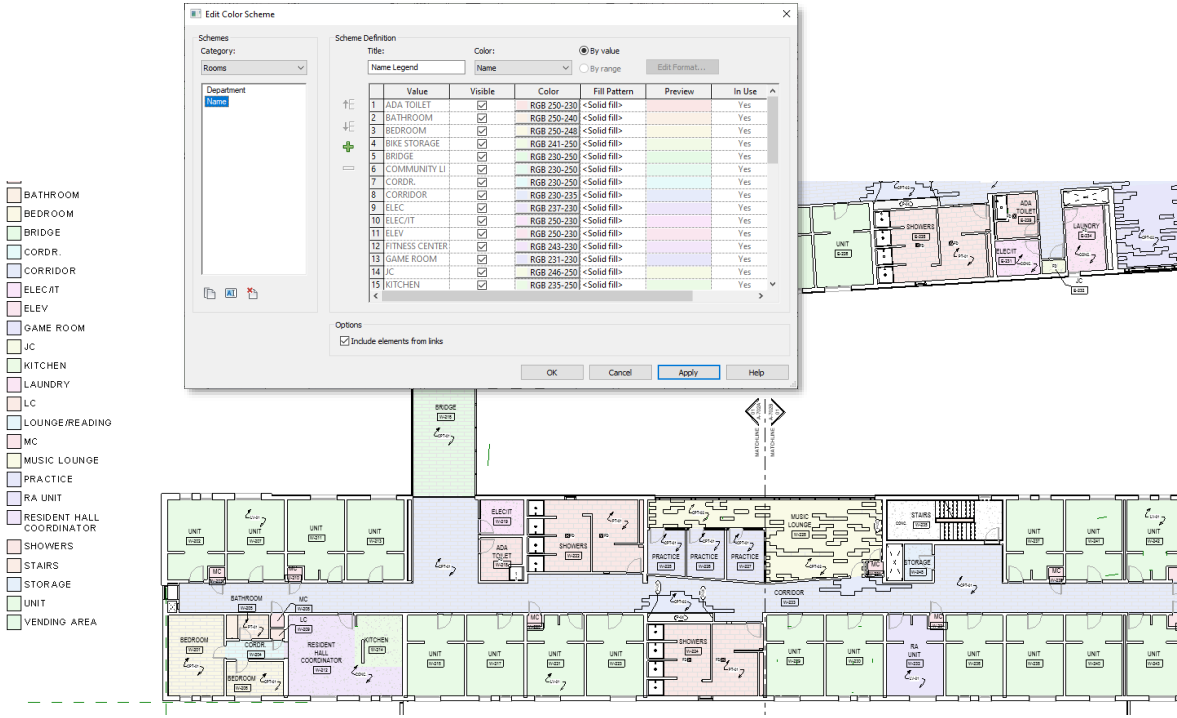
Improved Default Color Fill Scheme

- New default color scheme
- Lighter pastel colors
- No need for manual color adjustments



Better color fill schemes with new default lighter pastel colors

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Capture ideas when they strike

- Connect design concepts to BIM without remodeling.
- Sketch in 3D, collaborate, analyze, and revise early-stage design concepts
- Design on an iPad or Android tablet with clients, on site, or while traveling

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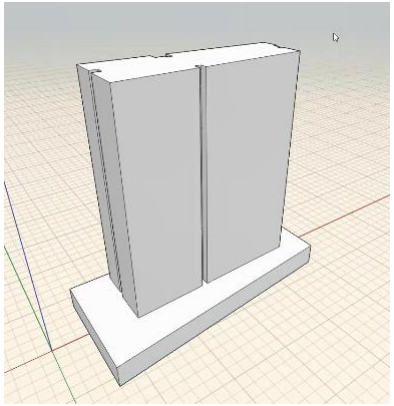

Concepts
Massing
Energy Studies
Design Review

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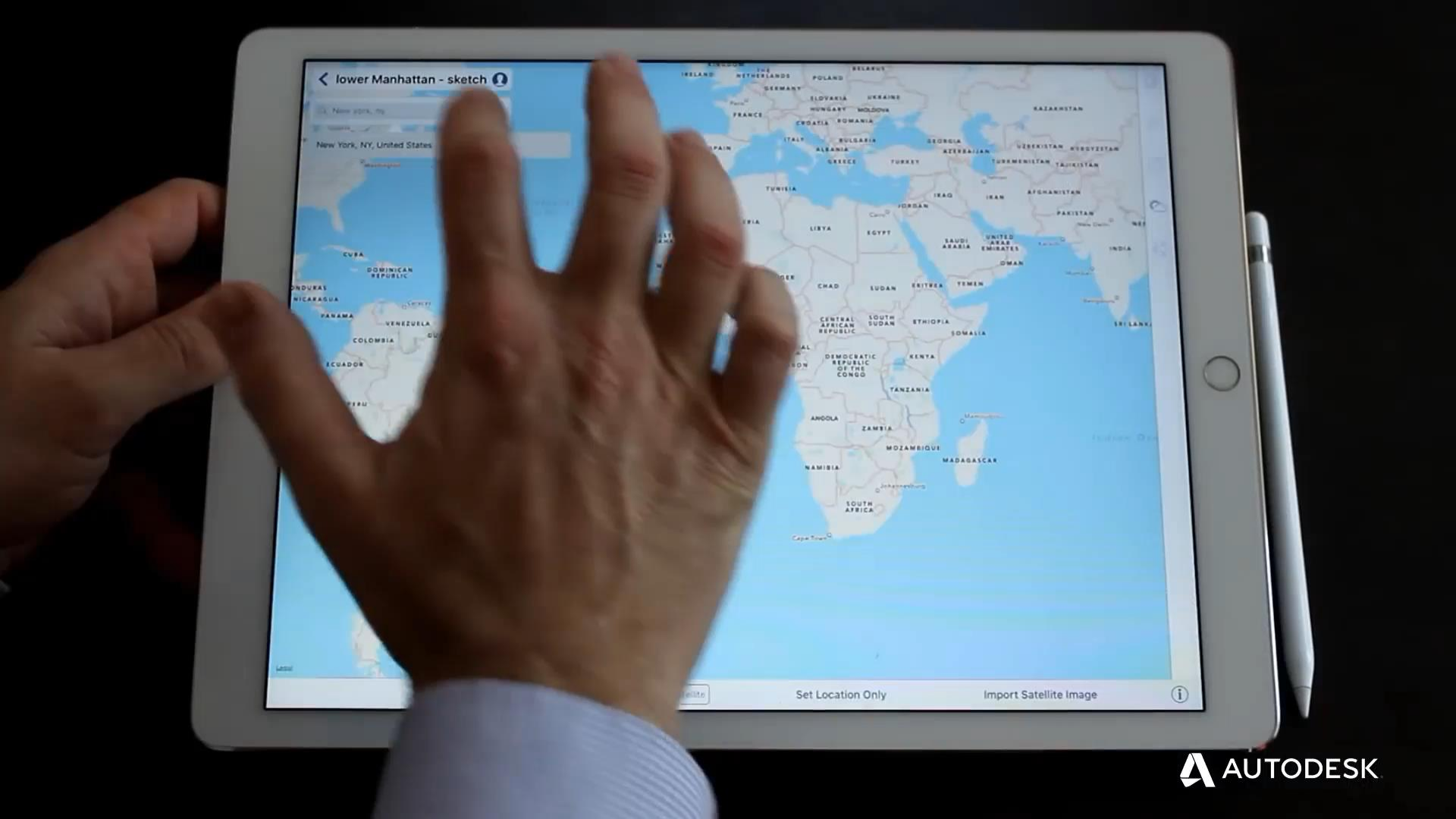
Design Development
Detailed Analysis
Visualization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