New Features and Enhancements

Autodesk Revit 2020

Connect



- ✓ PDF Into Revit
- ✓ Publish Cloud Model on Revit Home
- ✓ Cloud Models for Revit Update
- ✓ Support for Sketchup 2018 Import and Link
- ✓ Revit Extension for Fabrication Exports

Create



✓ Elliptical Walls

✓	Improved Rebar Copy & Move Logic
✓	Multi Rebar Annotation to Concrete Faces
✓	Multi Rebar Annotation for Free Form Rebar
✓	Rebar in Model-in-place Stairs
✓	Steel Connections Propagation
✓	Steel Connections Grouping
✓	Tags & Dimensions of Steel Elements
✓	Electrical Homerun Wiring Improvements

Optimize

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- ✓ Path of Travel
 - Improved OR in View Filters
 - Material Appearance Improvement
 - Material User Interface Improvements
 - Image and PDF improvements
- ✓ Tag, Schedule and View Filter for Elevation
- ✓ Track and Edit Scope Box Parameter in View List
- ✓ Copy and Paste Legends Across Sheets
- ✓ Create Parts from Imported Geometry
 - InfoCenter Reduction
- ✓ Dynamo 2.1 Ships with 2020
- ✓ Steel Connections for Dynamo
 - Enhanced Performance for Detailed Steel Models
- Additional Parameters for Steel Components
 - Electrical panel feed through lugs connection
- ✓ Change Service Improvements



PDF Into Revit

- Use PDFs directly
- Full BIM 360 or Connected Desktop Support
- Able to snap to geometry in the view

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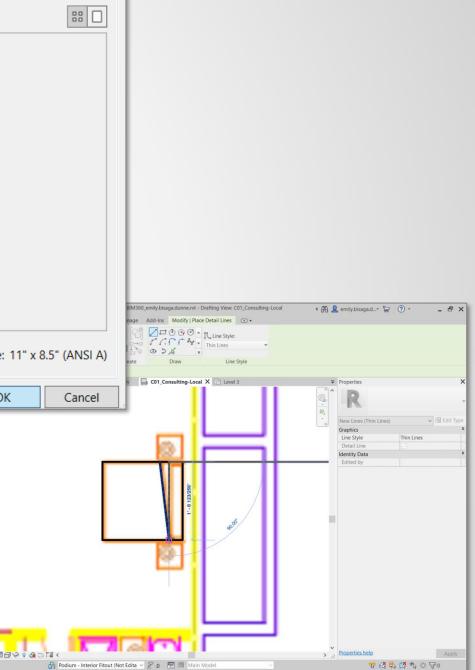
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Better support construction workflows and work with legacy documents

Insert

PDF





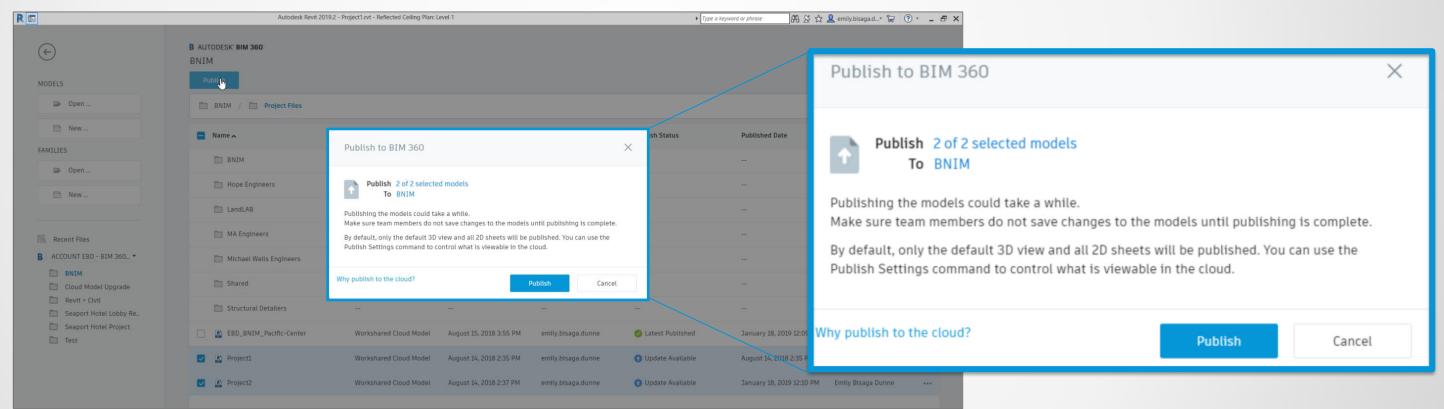
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Level-Three Plan.pdf



Publish Cloud Models on Revit Home

Publish model for view and reference in BIM 360



Easier access and a tighter integration with the BIM 360 platform



Cloud Models for Revit Update

- Store and access workshared and non-workshared models in the cloud
- Utilize BIM 360 for cloud storage
- Provides individual contributors and larger internal teams a connection to BIM 360 platform

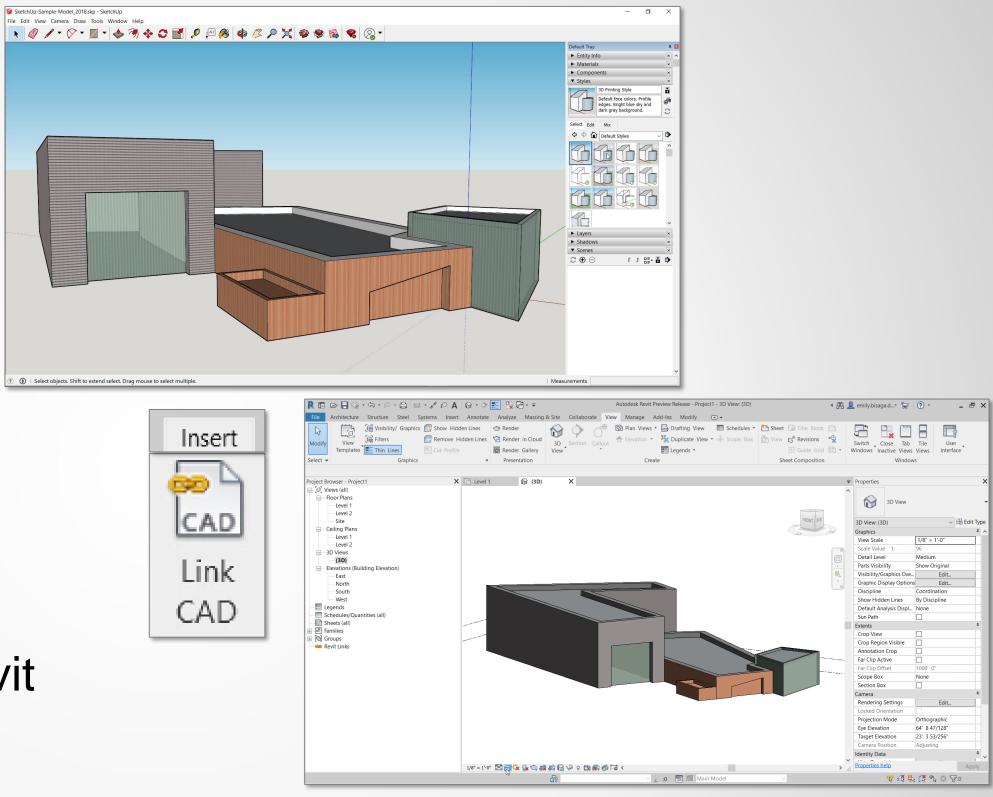
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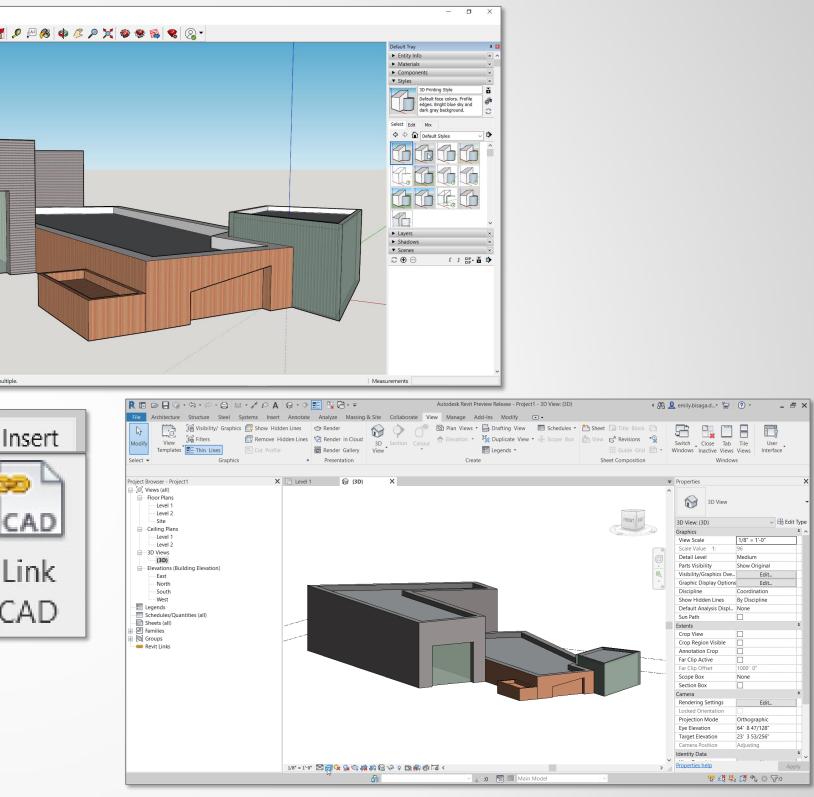
Easier access and a tighter integration with the BIM 360 platform



Support for Sketchup 2018 Import and Link

- Supports up to 2018 Version of SketchUp into Revit
- Colors from Sketchup model imported in Revit



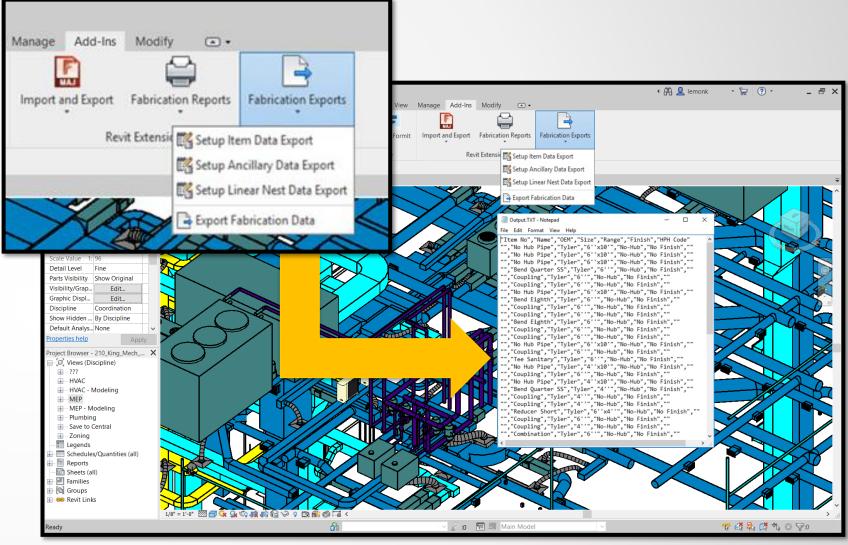


Makes it easier to transfer data from sketch model to design model



Revit Extension for Fabrication Exports

- Setup data exports
- Reuse formats in fabrication databases
- Extend data to fabrication and procurement



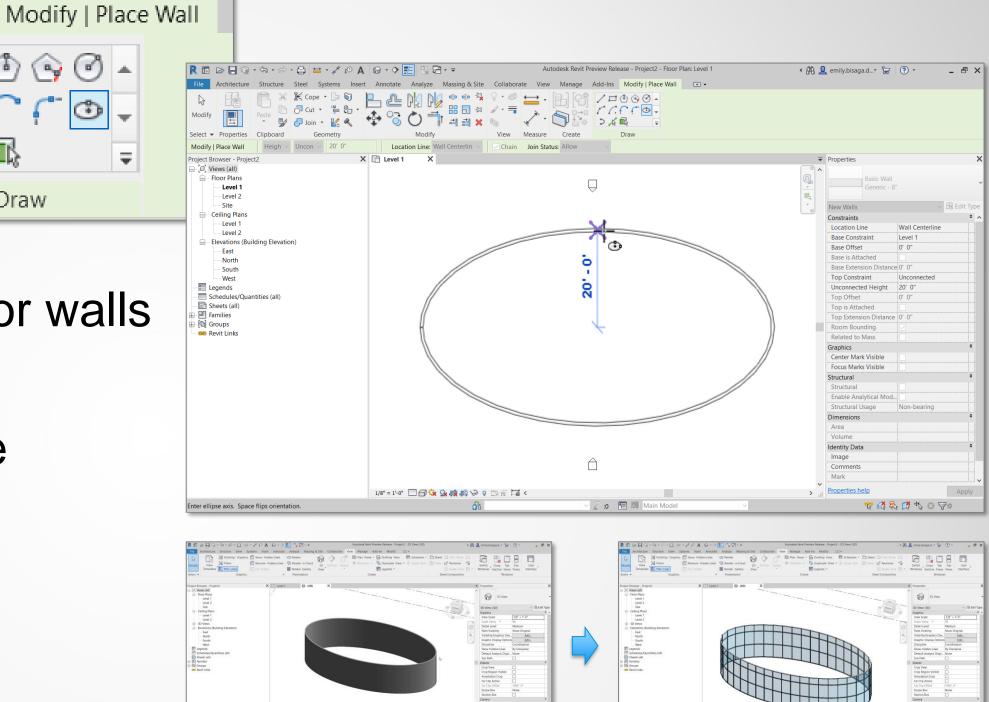
Extend user-definable data to spreadsheets for data driven workflows.

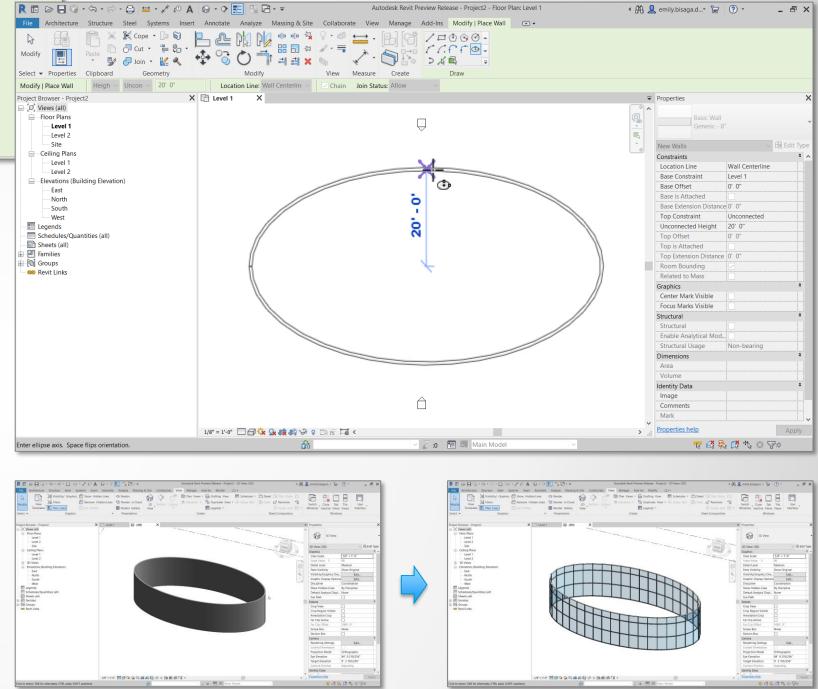


Create Autodesk Revit 2020

Elliptical Walls

- Ellipse in draw panel for walls
- Ability to change type
- Centerline location line
- Switch types easily





Improves ability to create advanced wall geometry in Revit

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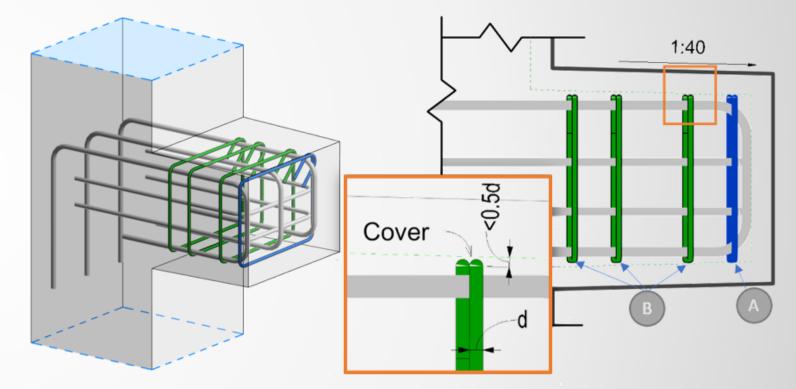


Create Autodesk Revit 2020

Improved Rebar Copy & Move Logic

- Improved rebar snapping to the cover
- Preserve bar dimensions during interaction with concrete cover
- Get consistent rebar fabrication data when copying bars

Increased precision for Fabrication for copied and edited rebar



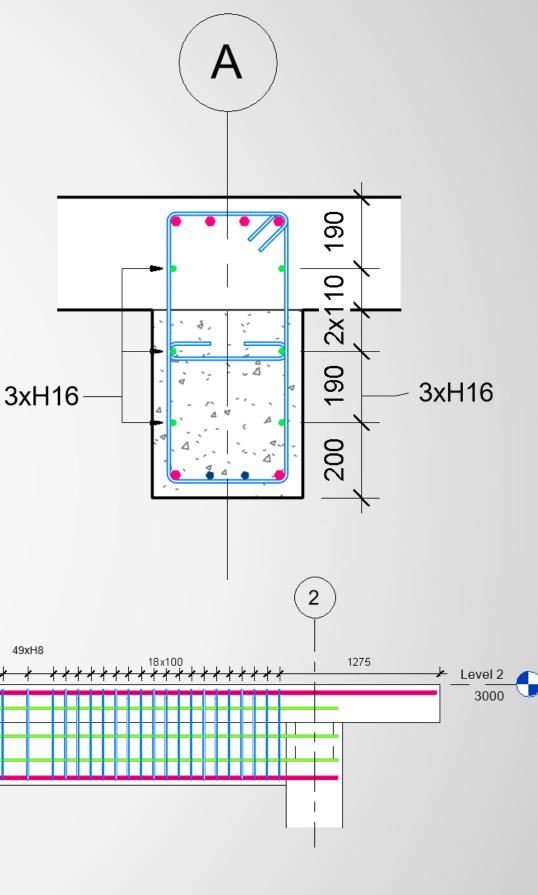




Multi Rebar Annotation to Concrete Faces

- Dimension the position of rebar sets with respect to the concrete host faces
- Accurate documentation for reinforced concrete projects

Enhanced instructions for construction

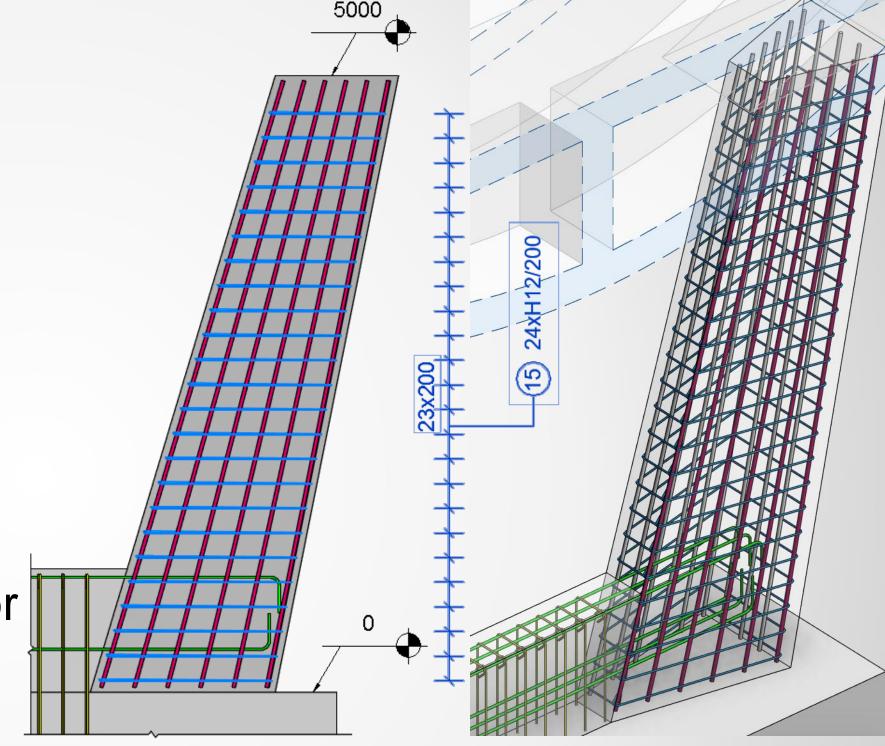




Create Autodesk Revit 2020

Multi Rebar Annotation for Free Form Rebar

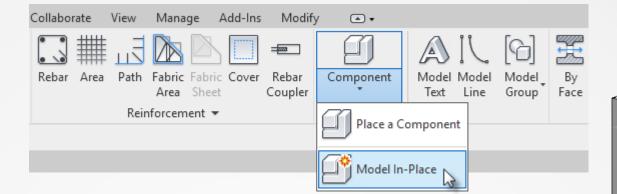
- Dimension free form rebar sets with planar and parallel bars
- Enhanced documentation for reinforced concrete projects



Enhanced productivity and accuracy when documenting rebars in complex geometries



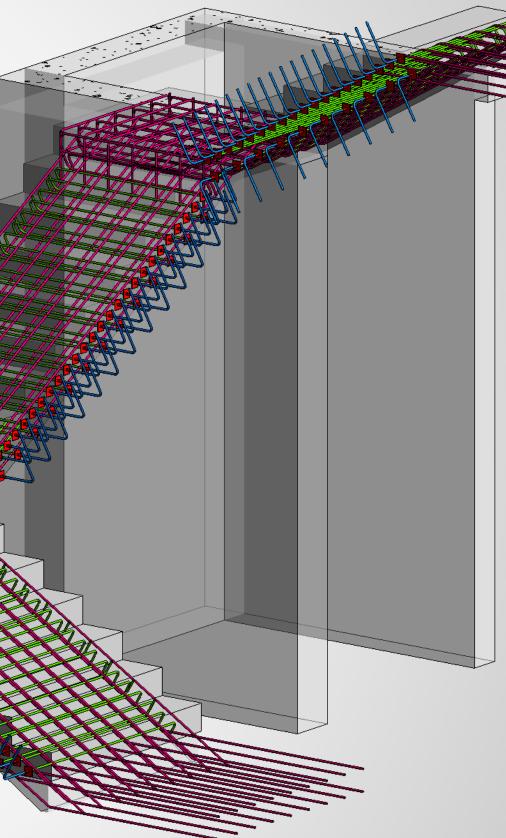




Rebar in Model-in-place Stairs

- Shape driven or free form rebars can be hosted in model-in-place stairs
- Deliver a fully detailed model of a concrete stairs

Increase 3D rebar modeling versatility







Steel Connections Propagation

- New option in the contextual menu
- Available for any steel connections available out-of-the-box
- Same framing conditions required
- Relevant to visible steel members



Quickly place the same steel connections in your project

Cancel	
Repeat [Hide Elements] Recent Commands	>
Select Connected Elements	
Propagate Connection	
Hide in View Override Graphics in View	> >
Create Similar Edit Family Select Previous Select All Instances Delete	>
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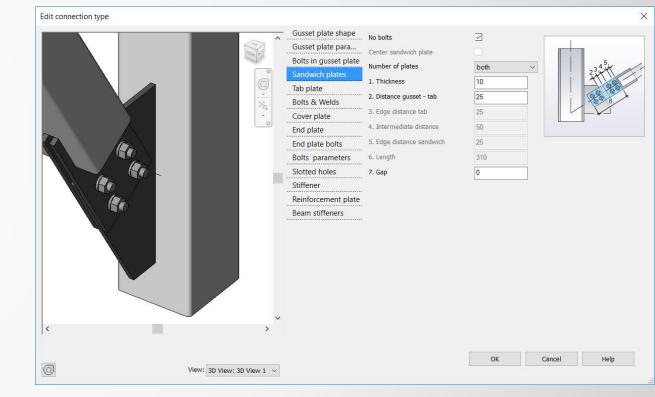


Create Autodesk Revit 2020

Steel Connections Grouping

- New type editor with preview
- Easily configure different types of connections
- Update all instances of the same type from one place
- Reuse them in same or other project

Manage repetitive connection design more easily and efficiently





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	Type C - 4 bolts	

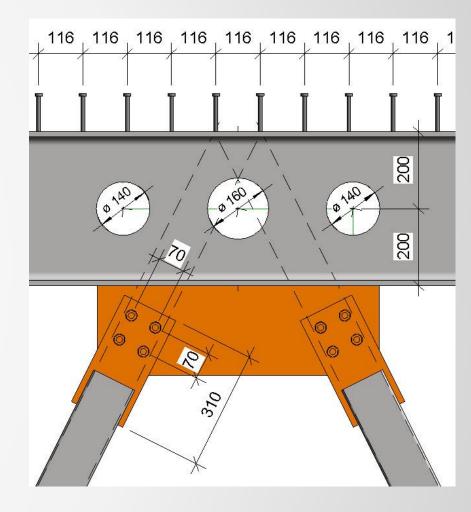




New Features for Tags and Dimensions of Steel Elements

- Radial & diameter dimensions of circular openings
- Dimension for holes and shear studs
- Now allow weld tags in any view

Create more accurate documentation for detailed steel elements

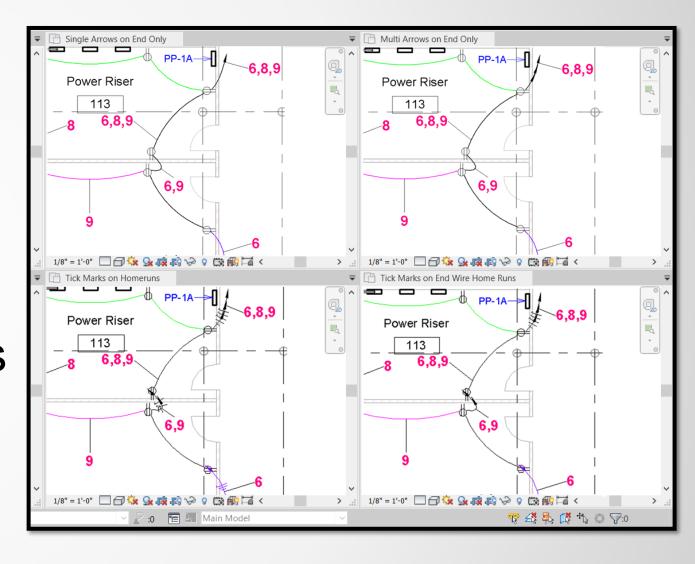




Create Autodesk Revit 2020

Electrical Homerun Wiring Improvements

- User definable homerun arrow style
- Multi-circuit homerun arrow control
- Additional option for wiring tick-marks



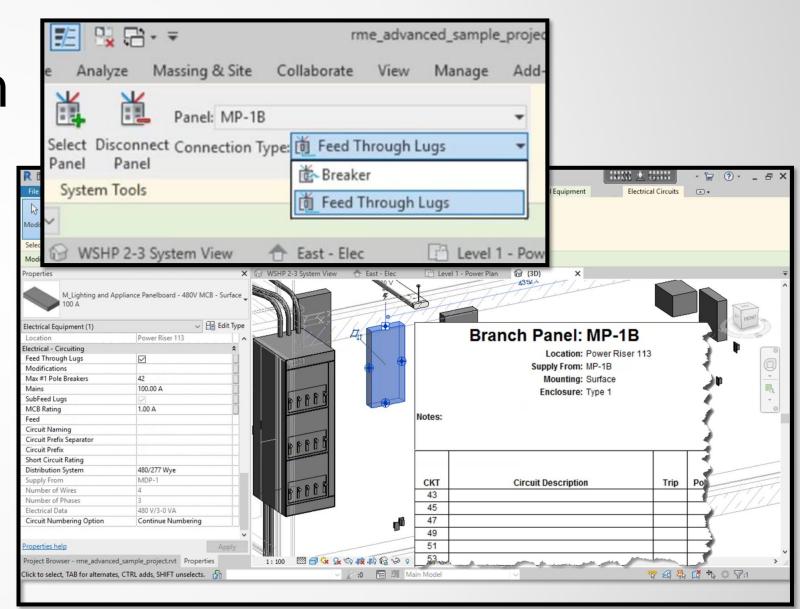
Greater control over homerun wiring displays and tick mark visibility



Create Autodesk Revit 2020

Electrical Panel Feeds Through Lug Connection

- Verify load calculation results
- Test a panel's circuit numbering with both Breaker and Feed Through Lugs.
- Modify existing panel schedule templates

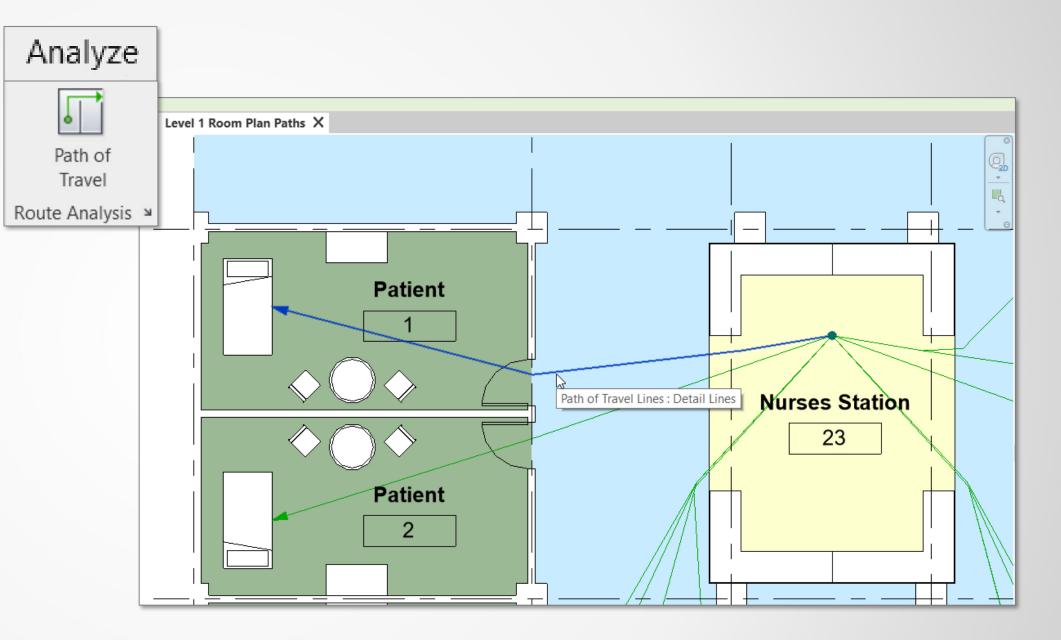


Connect equipment to lugs for new load reporting abilities on panel schedules



Path of Travel

- Automates path between two points
- Creates a Revit path element
- Understands obstacles
- Schedule and tag



Design check tool to help understand navigation of occupants



Improved OR in View Filters

- Available for OR filters only
- Shows inclusive list of parameters for just that category
- Extends parameters available for use

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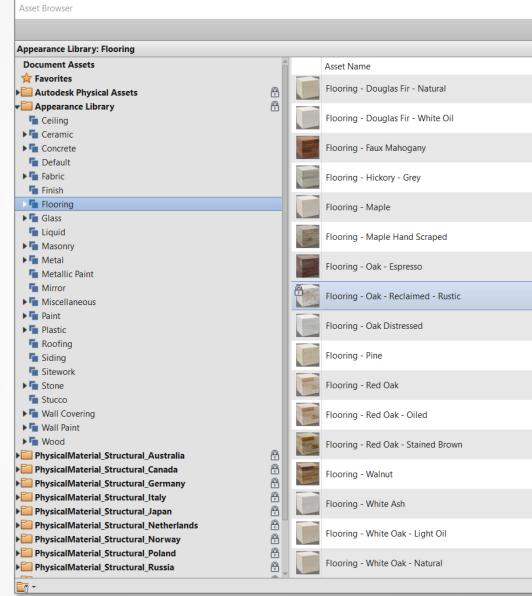
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3D - WORKSET			1/8" = 1'-0" 🔚 🥣 🄅

Allows for the creation of advanced filter sets



Material Appearance Improvement

- High quality
- Optimized
- Realistic



Extend your material appearance capabilities

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Material User Interface Improvements

- Easier access to libraries
- New filter by class
- New larger thumbnail

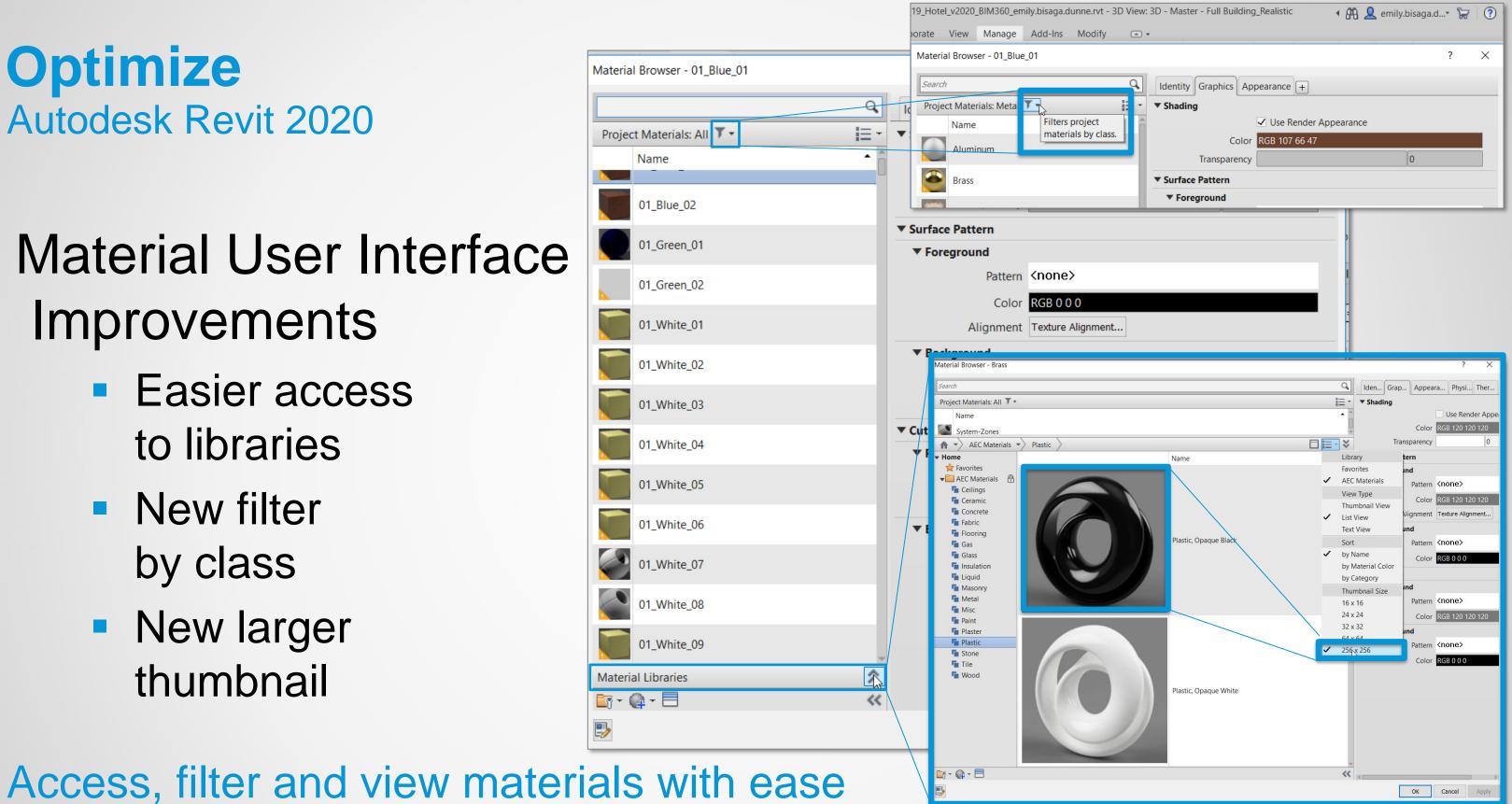
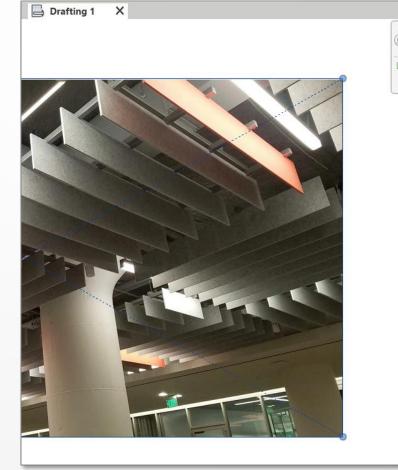




Image and PDF Improvements

- Better image info reporting
- BIM 360 paths enabled
- Modify scale parameters

Advanced image support



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Tag, Schedule and View Filter for Elevation

- Tag elevations of elements
- Use elevations in view filters
- Schedule elevation values

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 Visibility/Graphic Overrides for Floor Plan: Level 1

 Model Categories
 Annotation Categories

 Analytical Model
 Categories

 Image: Name
 Visibility

 Visibility
 Projection/Surface

 Electrical Filter
 Image: Name

level

3' - 0"

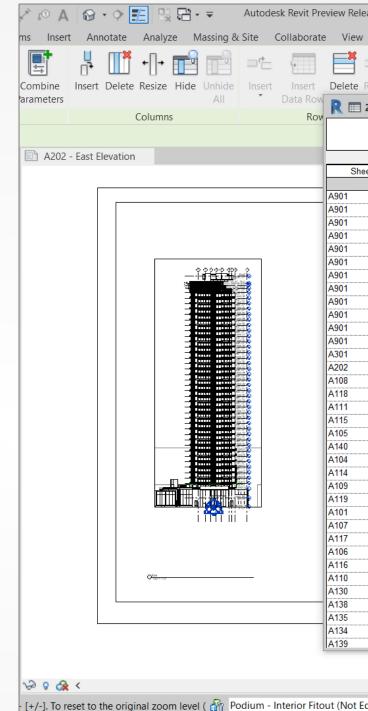
Smart coordination

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Track and Edit Scope Box Parameter in View List

- Easy to apply scope box to view from the view list
- Coordinates crop regions across views



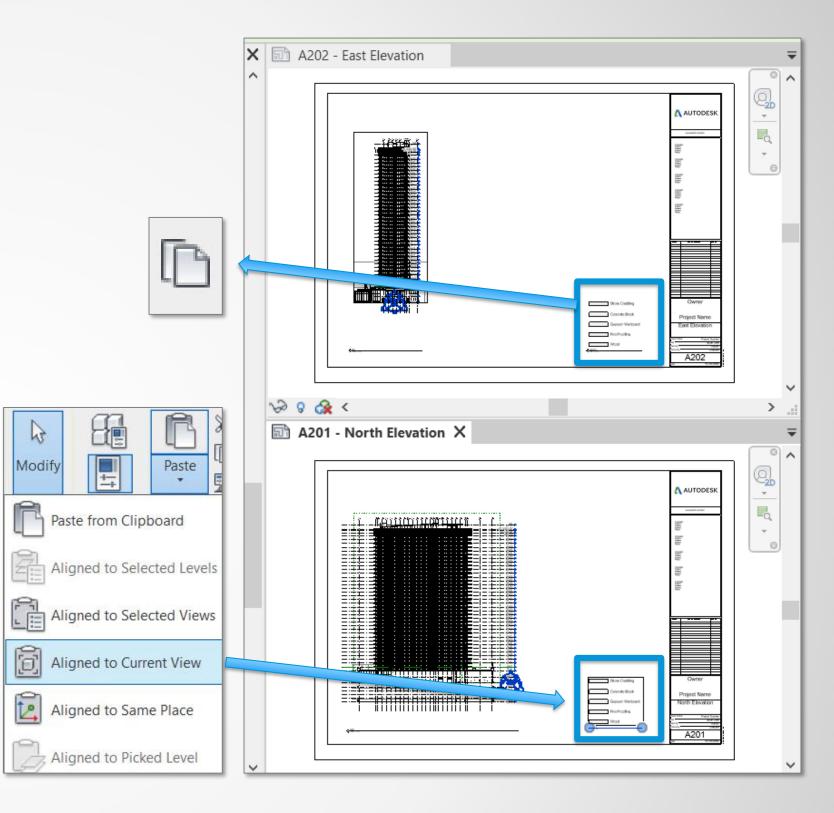
Create consistency between views in your project

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3D Views	3D View 5	None
3D Views	3D View 6	None
3D Views	3D View 7	None
3D Views	3D View 8	None
3D Views	3D View 9	None
3D Views	3D View 10	None
3D Views	3D View 11	None
3D Views	3D View 12	None
Building Section	Building Section 1	None
East Elevation	East	Full Building
Level Eight Floor Plan	Level 8 Level 18	None Full Building
Level Eighteen Floor Plan Level Eleven Floor Plan	Level 11	Lobby
Level Fifteen Floor Plan	Level 15	Rear Retail
Level Five Floor Plan	Level 5	None
Level Forty Floor Plan	Level 40 - Pool	None
Level Four Floor Plan	Level 4	None
Level Fourteen Floor Plan	Level 14	None
Level Nine Floor Plan	Level 9	None
Level Nineteen Floor Plan	Level 19	None
Level One Floor Plan	Level 1	None
Level Seven Floor Plan	Level 7	None
Level Seventeen Floor Plan	Level 17	None
Level Six Floor Plan	Level 6	None
Level Sixteen Floor Plan	Level 16	None
Level Ten Floor Plan Level Thirty Floor Plan	Level 10 Level 30	None
Level Thirty-Eight Floor Plan		None
Lever minty-Light Fide		None
	Level 35	inone
Level Thirty-Five Floor Plan Level Thirty-Four Floor Plan	Level 35 Level 34	None



Copy and Paste Legends Across Sheets

- Now copy and paste legends
- Dialogue is resizable
- Place on multiple sheets
- Place aligned to same place



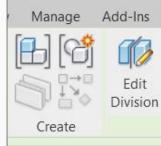
Create consistency between views in your project

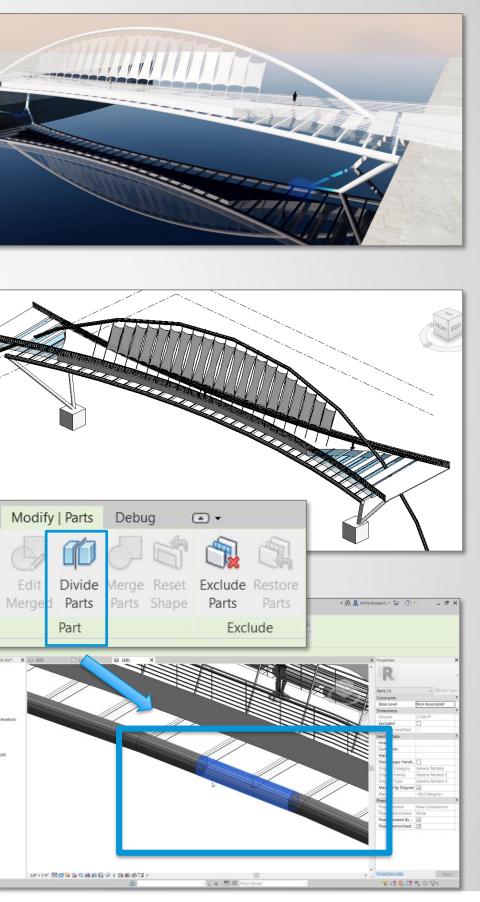


Create Parts from Imported Geometry

- Parts for imports from Infraworks or any DirectShape (IFC)
- Split and cut parts for construction
- Great for bridge workflow
- Revit> Link IFC> creates
 .rvt file with imported geometry for parts

Quickly parse data for construction workflows



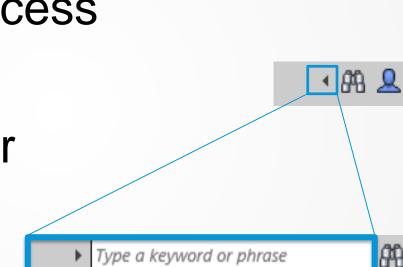






InfoCenter Reduction

- Removed WSCmmcntr process
- Collapsed the search bar
- Increased space on title bar



Type a keyword or phrase

Process project info more clearly at a glance

 2019.2 InfoCenter

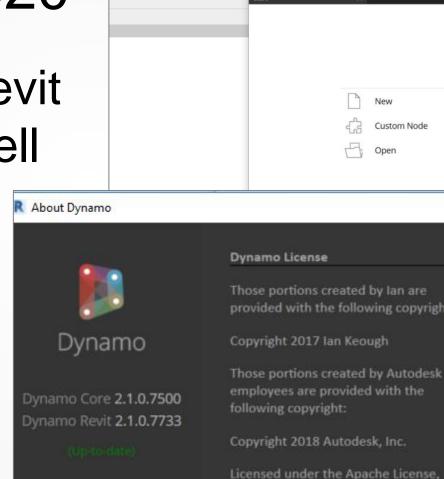
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Expanded 2020 InfoCenter



Dynamo 2.1 Ships with 2020

- Every time you update Revit Dynamo will update as well
- Does not impact other **Dynamo** installations



Site Collaborate View Manage R Dynam

DY DA

Dynamo Website

Autodesk Revit Preview Release - Project

Version 2.0 (the "License"); you may not

Streamline Dynamo installation coordination for your team

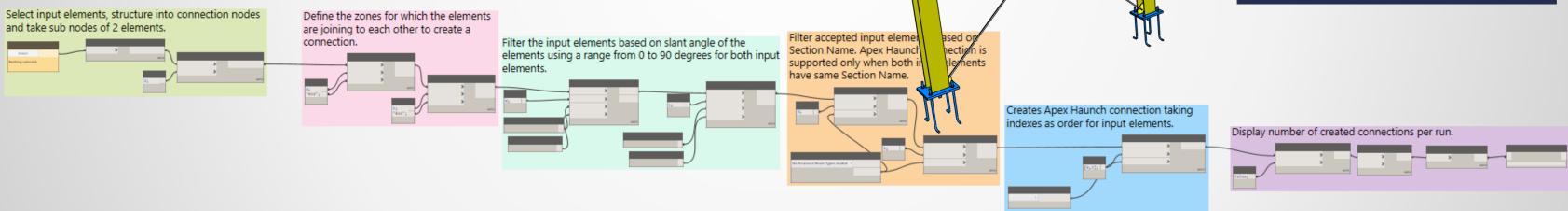
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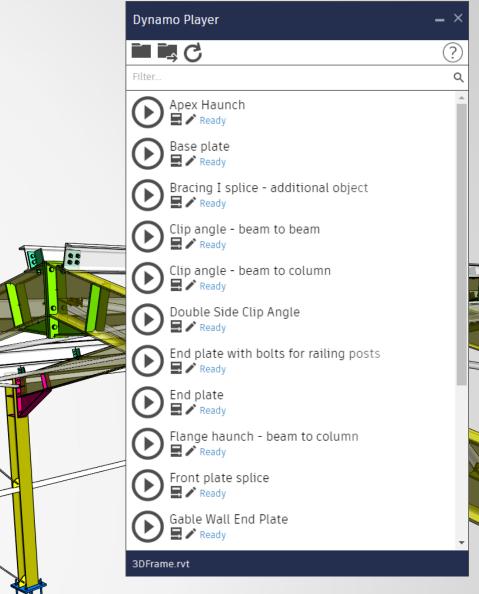


Steel Connections for Dynamo

- New Dynamo nodes to model steel connections
- Out-of-the box scripts ready to be run in Dynamo Player



Enhanced productivity by automating modeling of steel connections





Enhanced Performance for Detailed Steel Models

- **Background process for steel connections**
- Faster response time
- Allow to perform other actions at the same time
- Involved elements highlighted in color
- Status visible in background processes window

Get a faster response time for performance intensive steel engineering tasks



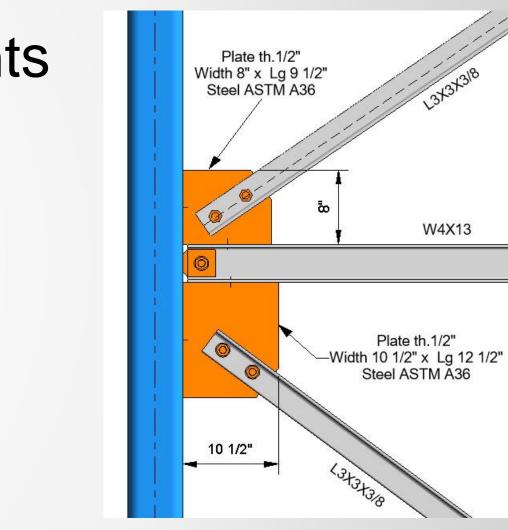




Additional Parameters for Steel Components

- More parameters at hand
 - e.g. plate width & length
- Capture more information from the BIM model
- Enhanced collaboration with fabricators
 - More detailed tags
 - Schedules with more information

Create more accurate documentation for components of steel connections





Change Service Improvement

- Maintain or retain duct shapes
- Maintain size restrictions of pipework when swapping multiple pipe types
- Group filters include couplings, adapters, and equipment

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Easily change or retain duct shapes with the Change Service functionality.



