More than the Model: A360 Teams for Architectural Project Management

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Class summary

- Gone are the days of uploading models for consultants and sending PDF's back and forth for markups. With A360 Team (soon to be BIM 360 Team) project team members can now host their live Revit models in one place making collaboration incredibly easy. In addition to centralized model hosting, A360 Team allows team members to share 2D and 3D data, view multiple file formats directly in your browser, review and markup documents in real time with your team, and search across all files in the project to find information quickly. In addition to hosting live project information, A360 Teams supports versioning so team members can quickly compare changes between documents and models.

- This class will demonstrate effective workflows for using the various features of A360 Team for coordination and collaboration on projects. We will explore the differences when using the platform for internal coordination within a single firm versus external coordination with many firms in the same A360 Team space. We will show how to utilize the commenting tools to effectively coordinate, reducing printing needs or the need to employ additional software platforms.

- Additionally, we will demonstrate workflows utilizing the Wiki feature of A360 Team to capture critical project information, such as design guidelines and best practices, and document ongoing updates thus enabling greater team understanding of the project and reducing conflicts. This session features A360 Team and Collaboration for Revit.

Key learning objectives

At the end of this class, you will be able to:

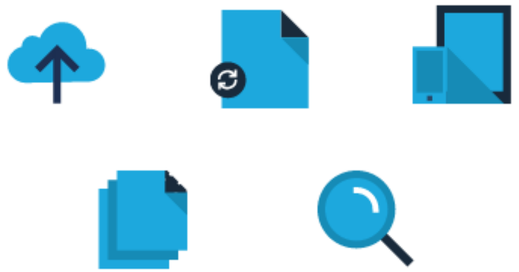
- Collaborate effectively on projects using A360 Teams
- Understand the benefits of using A360 Teams for internal versus external collaboration
- Utilize the Wiki feature to track design decisions in the cloud
- Reduce printing by utilizing digital markups

Why A360 Teams?

Immediate access to project data

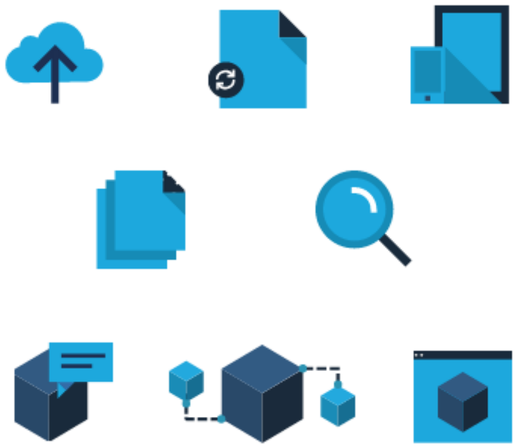
- Cloud hosted files are accessible from any location for all team members*
- Upload any file to A360 and share a link instantly
- Mobile access to projects and files

Find the right information at the right time



- Versioning ensures that all team members are working from the most current information
- Quickly find project information across multiple models and files and project activity feeds*

Communicate intelligently



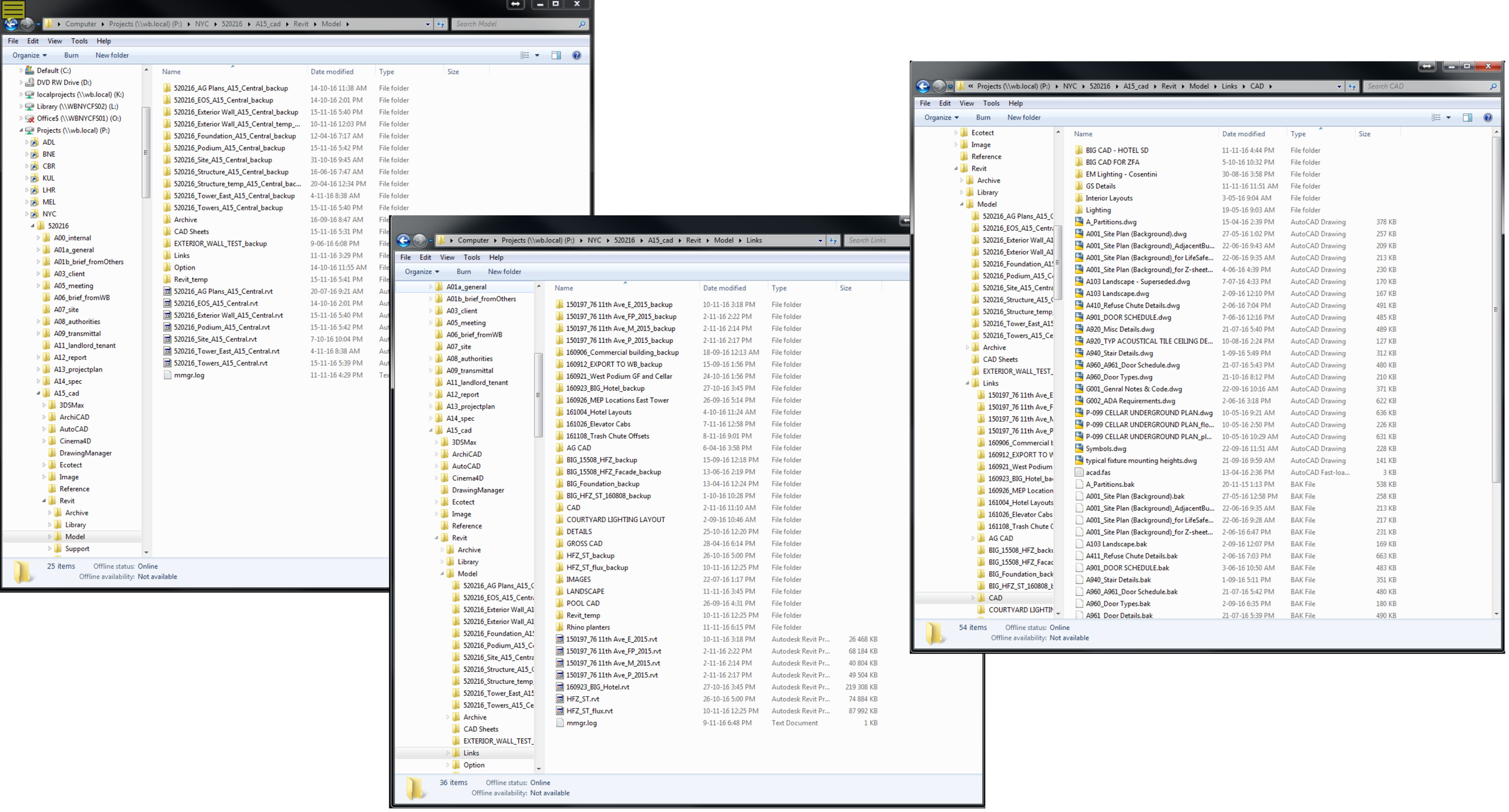
- Live markups connected to data*
- Web-based viewing of 2D & 3D files
- Relational metadata allows users to understand component relationships including drawings & views

(*and what to know before you start…)

- **Client & consultant relationships are extremely important! Success requires trust, an open mind, and a willingness to change.**
- Contracts may need to be adjusted
- Office “Standards” may need to be adjusted
  - Model organization strategy, view types, naming conventions, etc.
- Still need local file storage and may need additional platforms
- Understand the limitations of A360
  - Limits on file size and number of users, publishing and markup behavior, etc.
- Understand your team limitations
  - What happens if you have team members who can’t / won’t use A360?
  - What skills & expertise do you need on your team?

Case study

Shared models / files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Links_Images		Jerico Prater	Folder		Nov 12, 2016
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All files in the same place, yay!

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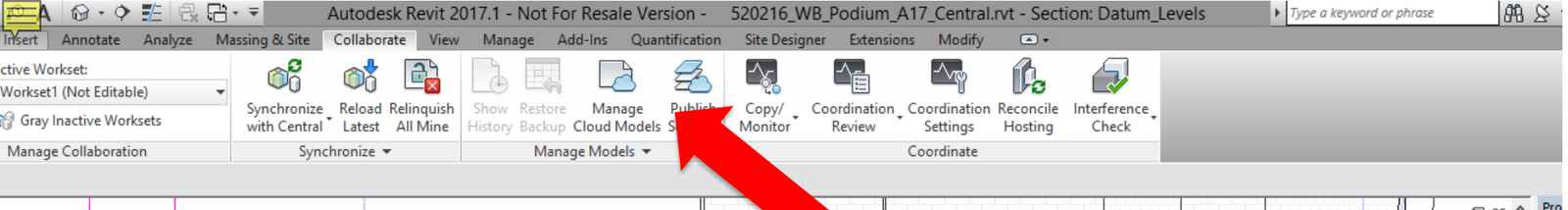
Consistent naming conventions, yay!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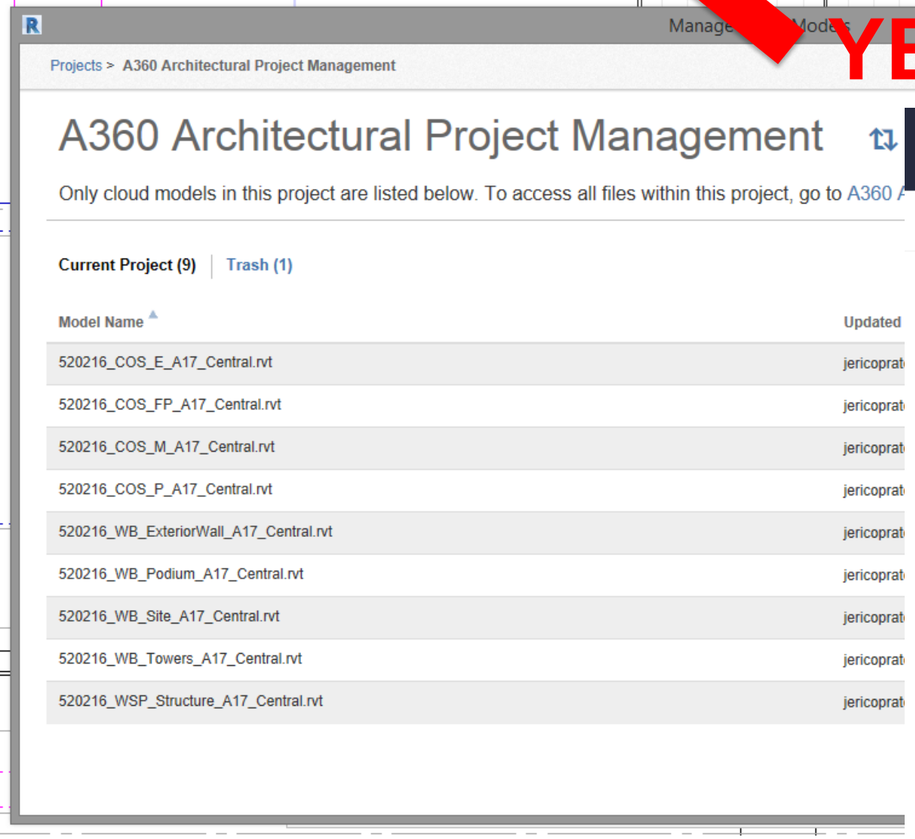
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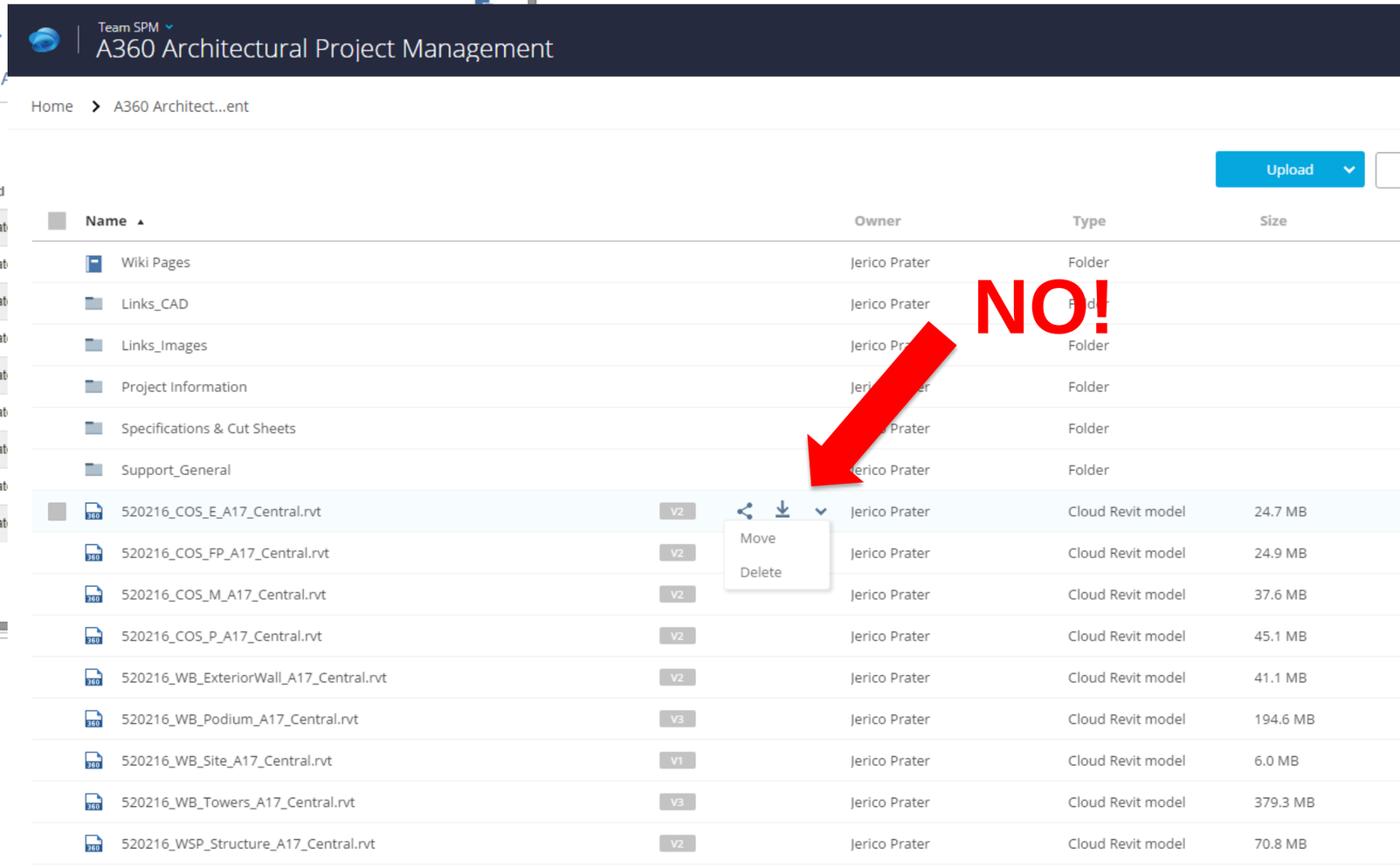
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Move
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Linked files

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Links_CAD_Working	Jerico Prater	Folder		Nov 12, 2016

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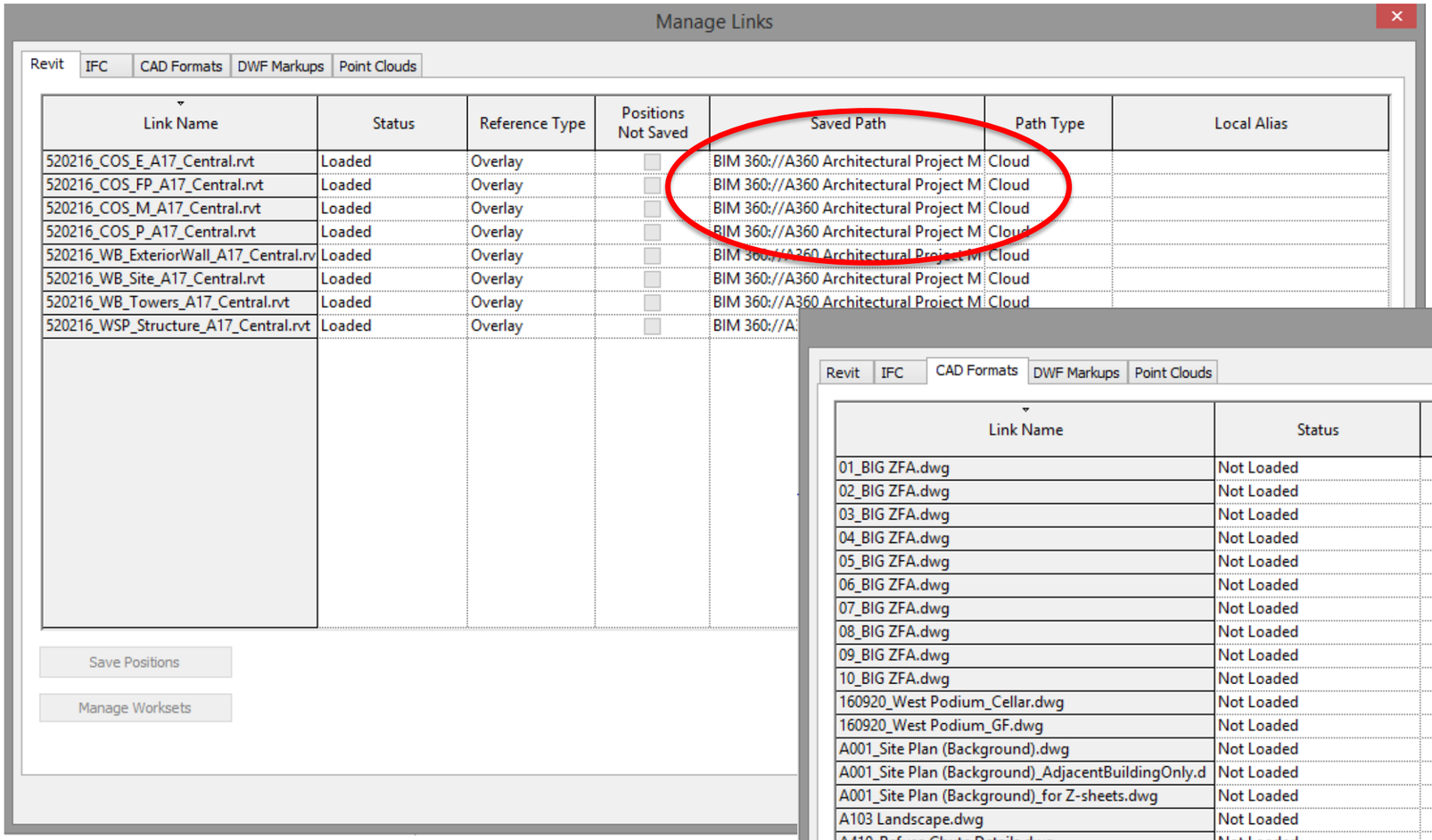
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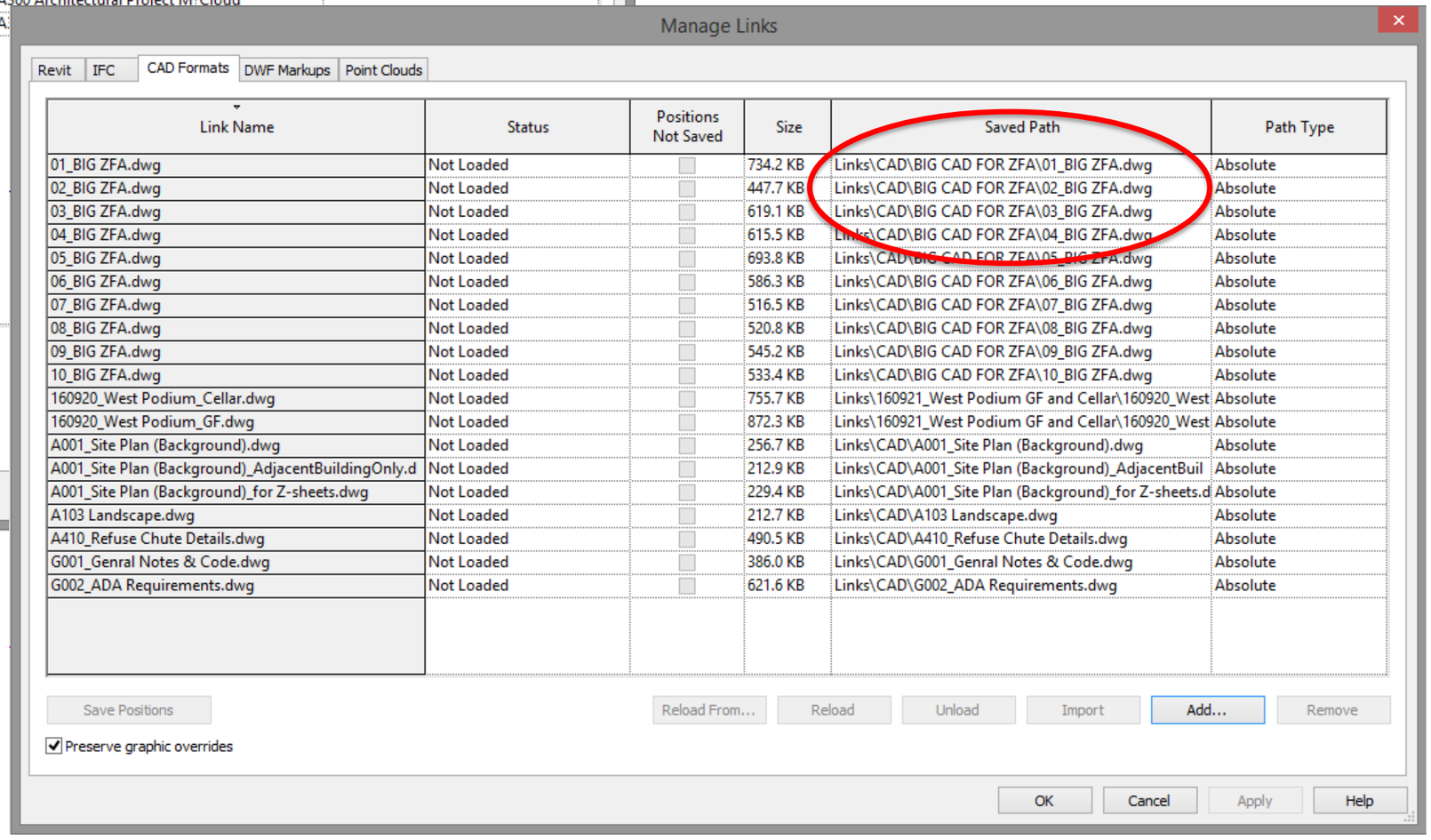
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02_BIG ZFA.dwg
03_BIG ZFA.dwg
04_BIG ZFA.dwg
05_BIG ZFA.dwg
06_BIG ZFA.dwg
07_BIG ZFA.dwg
08_BIG ZFA.dwg
09_BIG ZFA.dwg
10_BIG ZFA.dwg
160920_West Podium_Cellar.dwg
160920_West Podium_GF.dwg
A001_Site Plan (Background).dwg
A001_Site Plan (Background)_AdjacentBuildingOnly.d
A001_Site Plan (Background)_for Z-sheets.dwg
A103 Landscape.dwg
A410_Refuse Chute Details.dwg
G001_Genral Notes & Code.dwg
G002_ADA Requirements.dwg
Not Loaded
734.2 KB
447.7 KB
619.1 KB
615.5 KB
693.8 KB
586.3 KB
516.5 KB
520.8 KB
545.2 KB
533.4 KB
755.7 KB
872.3 KB
256.7 KB
212.9 KB
229.4 KB
212.7 KB
490.5 KB
386.0 KB
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Links\CAD\BIG CAD FOR ZFA\01_BIG ZFA.dwg
Links\CAD\BIG CAD FOR ZFA\02_BIG ZFA.dwg
Links\CAD\BIG CAD FOR ZFA\03_BIG ZFA.dwg
Links\CAD\BIG CAD FOR ZFA\04_BIG ZFA.dwg
Links\CAD\BIG CAD FOR ZFA\05_BIG ZFA.dwg
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Links\CAD\BIG CAD FOR ZFA\07_BIG ZFA.dwg
Links\CAD\BIG CAD FOR ZFA\08_BIG ZFA.dwg
Links\CAD\BIG CAD FOR ZFA\09_BIG ZFA.dwg
Links\CAD\BIG CAD FOR ZFA\10_BIG ZFA.dwg
Links\160921_West Podium GF and Cellar\160920_West
Links\160921_West Podium GF and Cellar\160920_West
Links\CAD\A001_Site Plan (Background).dwg
Links\CAD\A001_Site Plan (Background)_AdjacentBuil
Links\CAD\A001_Site Plan (Background)_for Z-sheets.d
Links\CAD\A103 Landscape.dwg
Links\CAD\A410_Refuse Chute Details.dwg
Links\CAD\G001_Genral Notes & Code.dwg
Links\CAD\G002_ADA Requirements.dwg
Absolute
Save Positions
Reload From...
Reload
Unload
Import
Add...
Remove
Preserve graphic overrides
OK
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Apply
Help

Versioning

Team SPM

A360 Architectural Project Management

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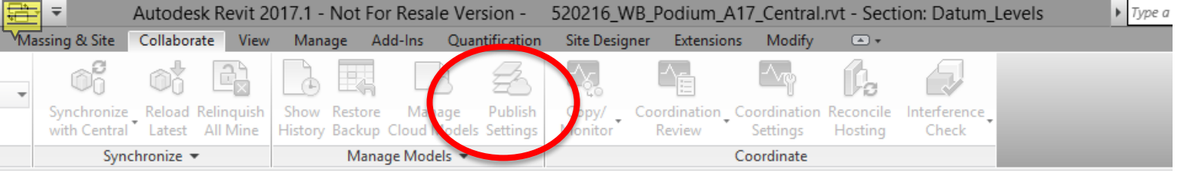
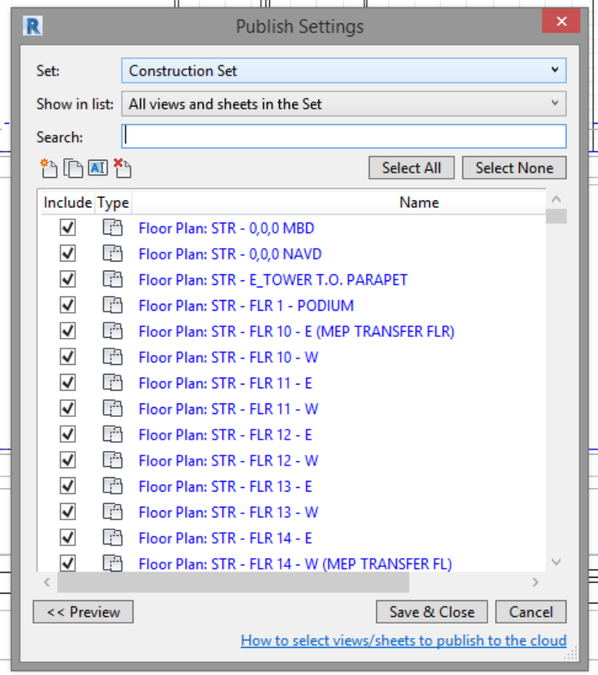
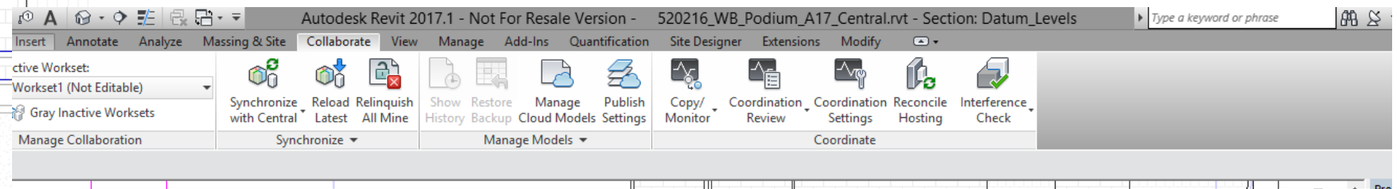
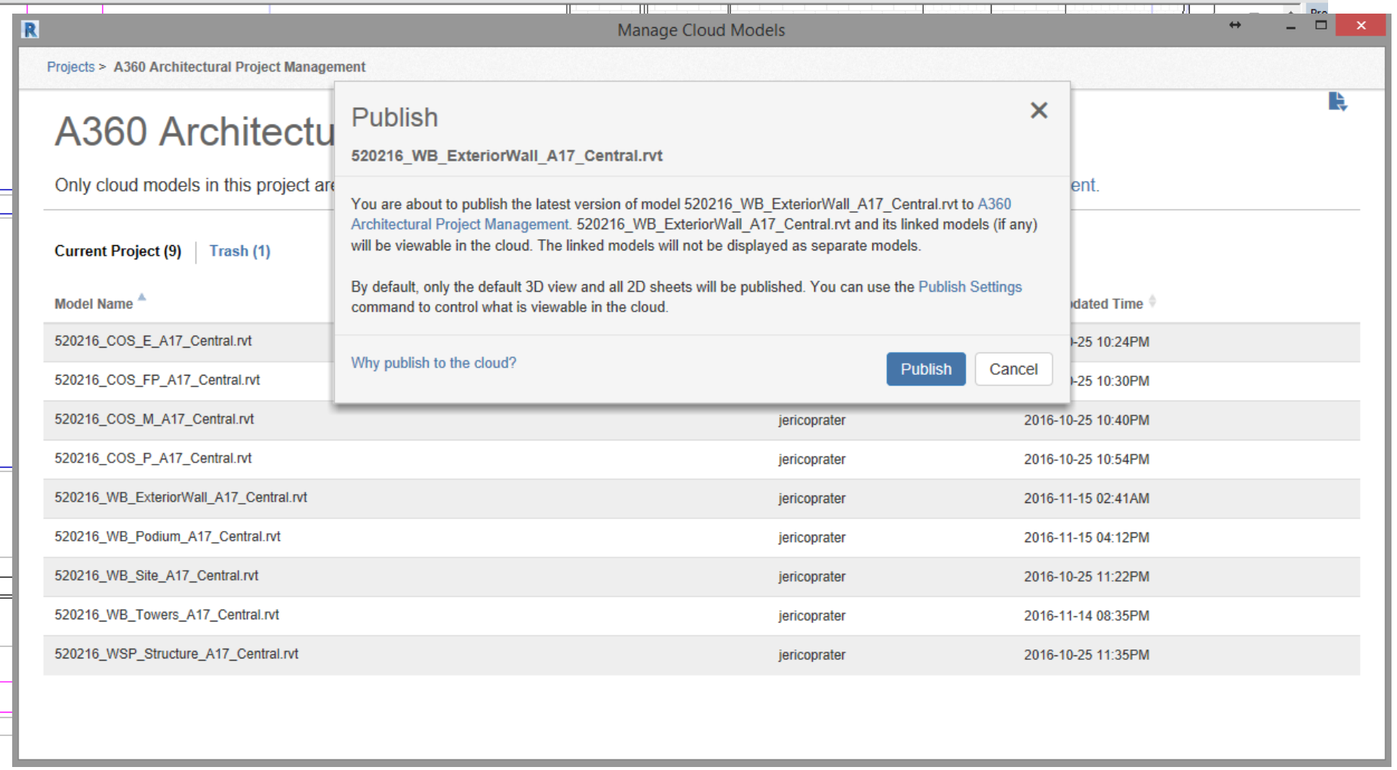
Name		Owner	Type	Size	Last updated
Wiki Pages		Jerico Prater	Folder		Nov 13, 2016
Links_CAD		Jerico Prater	Folder		Oct 25, 2016
Links_Images		Jerico Prater	Folder		Nov 12, 2016
Project Information		Jerico Prater	Folder		Nov 12, 2016
Specifications & Cut Sheets		Jerico Prater	Folder		Nov 12, 2016
Support_General		Jerico Prater	Folder		Nov 12, 2016
520216_COS_E_A17_Central.rvt	V2	Jerico Prater	Cloud Revit model	24.7 MB	Just recently
520216_COS_FP_A17_Central.rvt	V2	Jerico Prater	Cloud Revit model	24.9 MB	Just recently
520216_COS_M_A17_Central.rvt	V2	Jerico Prater	Cloud Revit model	37.6 MB	Just recently
520216_COS_P_A17_Central.rvt	V2	Jerico Prater	Cloud Revit model	45.1 MB	Just recently
520216_WB_ExteriorWall_A17_Central.rvt	V2	Jerico Prater	Cloud Revit model	41.1 MB	1 minute ago
520216_WB_Podium_A17_Central.rvt	V3	Jerico Prater	Cloud Revit model	194.6 MB	1 minute ago
520216_WB_Site_A17_Central.rvt	V1	Jerico Prater	Cloud Revit model	6.0 MB	Oct 25, 2016
520216_WB_Towers_A17_Central.rvt	V3	Jerico Prater	Cloud Revit model	379.3 MB	13 hours ago
520216_WSP_Structure_A17_Central.rvt	V2	Jerico Prater	Cloud Revit model	70.8 MB	Just recently

Publishing


Autodesk Revit 2017.1 - Not For Resale Version - 520216_WB_Podium_A17_Central.rvt - Section: Datum_Levels
Massing & Site
Collaborate
View
Manage
Add-Ins
Quantification
Site Designer
Extensions
Modify
Synchronize with Central
Reload Latest
Relinquish All Mine
Show History
Restore Backup
Manage Cloud Models
Publish Settings
Copy/ Monitor
Coordination Review
Coordination Settings
Reconcile Hosting
Interference Check
Synchronize
Manage Models
Coordinate


Publish Settings
Set:
Construction Set
Show in list:
All views and sheets in the Set
Search:
Select All
Select None
Include
Type
Name
Floor Plan: STR - 0,0,0 MBD
Floor Plan: STR - 0,0,0 NAVD
Floor Plan: STR - E_TOWER T.O. PARAPET
Floor Plan: STR - FLR 1 - PODIUM
Floor Plan: STR - FLR 10 - E (MEP TRANSFER FLR)
Floor Plan: STR - FLR 10 - W
Floor Plan: STR - FLR 11 - E
Floor Plan: STR - FLR 11 - W
Floor Plan: STR - FLR 12 - E
Floor Plan: STR - FLR 12 - W
Floor Plan: STR - FLR 13 - E
Floor Plan: STR - FLR 13 - W
Floor Plan: STR - FLR 14 - E
Floor Plan: STR - FLR 14 - W (MEP TRANSFER FL)
<< Preview
Save & Close
Cancel
How to select views/sheets to publish to the cloud


Autodesk Revit 2017.1 - Not For Resale Version - 520216_WB_Podium_A17_Central.rvt - Section: Datum_Levels
Insert
Annotate
Analyze
Massing & Site
Collaborate
View
Manage
Add-Ins
Quantification
Site Designer
Extensions
Modify
Workset1 (Not Editable)
Gray Inactive Worksets
Synchronize with Central
Reload Latest
Relinquish All Mine
Show History
Restore Backup
Manage Cloud Models
Publish Settings
Copy/ Monitor
Coordination Review
Coordination Settings
Reconcile Hosting
Interference Check
Manage Collaboration
Synchronize
Manage Models
Coordinate


Manage Cloud Models
Projects > A360 Architectural Project Management
A360 Architectu
Only cloud models in this project are
Current Project (9)
Trash (1)
Model Name
Updated Time
520216_COS_E_A17_Central.rvt
520216_COS_FP_A17_Central.rvt
520216_COS_M_A17_Central.rvt
jericoprater
2016-10-25 10:40PM
520216_COS_P_A17_Central.rvt
jericoprater
2016-10-25 10:54PM
520216_WB_ExteriorWall_A17_Central.rvt
jericoprater
2016-11-15 02:41AM
520216_WB_Podium_A17_Central.rvt
jericoprater
2016-11-15 04:12PM
520216_WB_Site_A17_Central.rvt
jericoprater
2016-10-25 11:22PM
520216_WB_Towers_A17_Central.rvt
jericoprater
2016-11-14 08:35PM
520216_WSP_Structure_A17_Central.rvt
jericoprater
2016-10-25 11:35PM
Publish
520216_WB_ExteriorWall_A17_Central.rvt
You are about to publish the latest version of model 520216_WB_ExteriorWall_A17_Central.rvt to A360 Architectural Project Management. 520216_WB_ExteriorWall_A17_Central.rvt and its linked models (if any) will be viewable in the cloud. The linked models will not be displayed as separate models.
By default, only the default 3D view and all 2D sheets will be published. You can use the Publish Settings command to control what is viewable in the cloud.
Why publish to the cloud?
Publish
Cancel

Internal vs external collaboration

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View

520216_WB_Podium_A17_Central.rvt V. 3

Cloud Revit model | 194.6 MB | Shared Link On

JP Last Updated on 58 minutes ago
By Jerico Prater

COMMENTS

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Related Data

SHEETS (254)

A-001 - SITE PLAN

A-010 - LIFE SAFETY PLA...

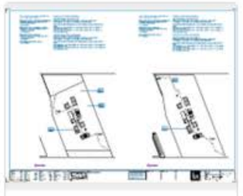
A-011 - LIFE SAFETY PLA...

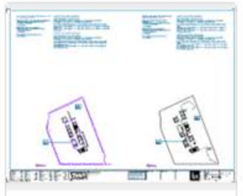
A-012 - LIFE SAFETY PLA...

A-013 - LIFE SAFETY PLA...

A-014 - LIFE SAFETY PLA...

A-015 - LIFE SAFETY PLA...

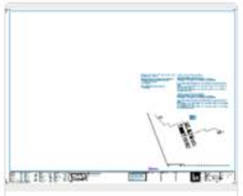

A-016 - LIFE SAFETY PLA...


A-017 - LIFE SAFETY PLA...

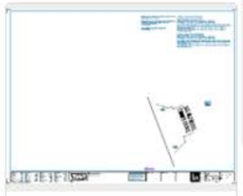
A-019 - LIFE SAFETY PLA...

A-020 - LIFE SAFETY PLA...

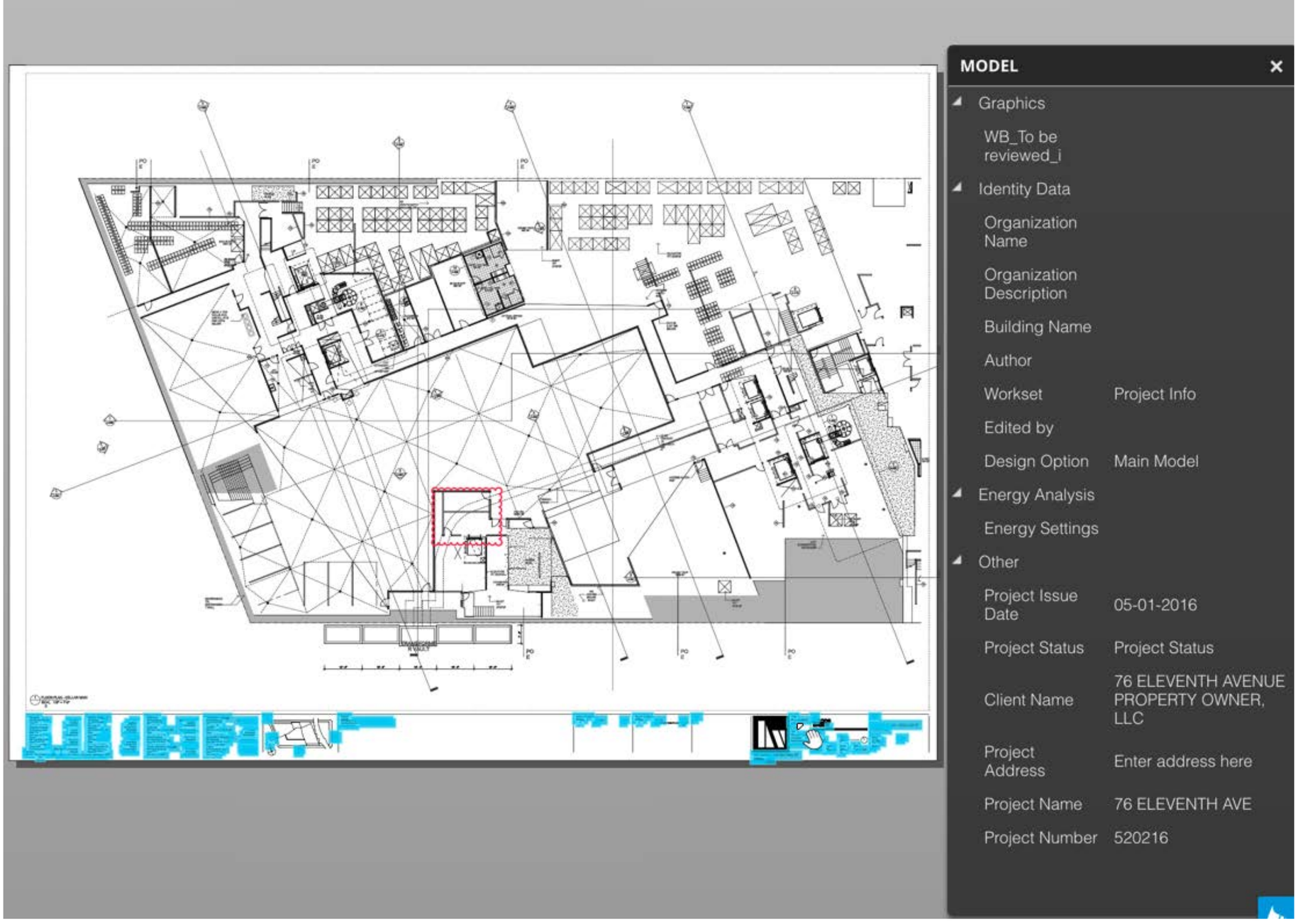
A-021 - LIFE SAFETY PLA...

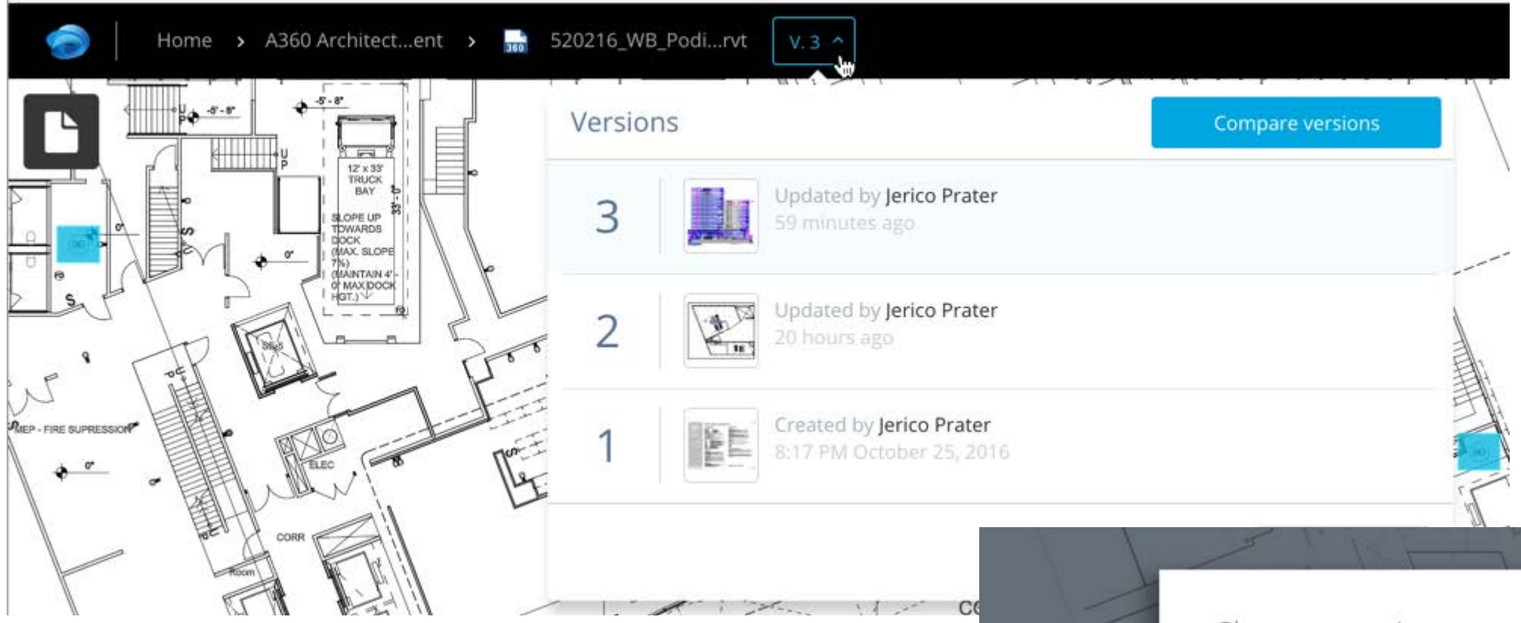

A-022 - LIFE SAFETY PLA...

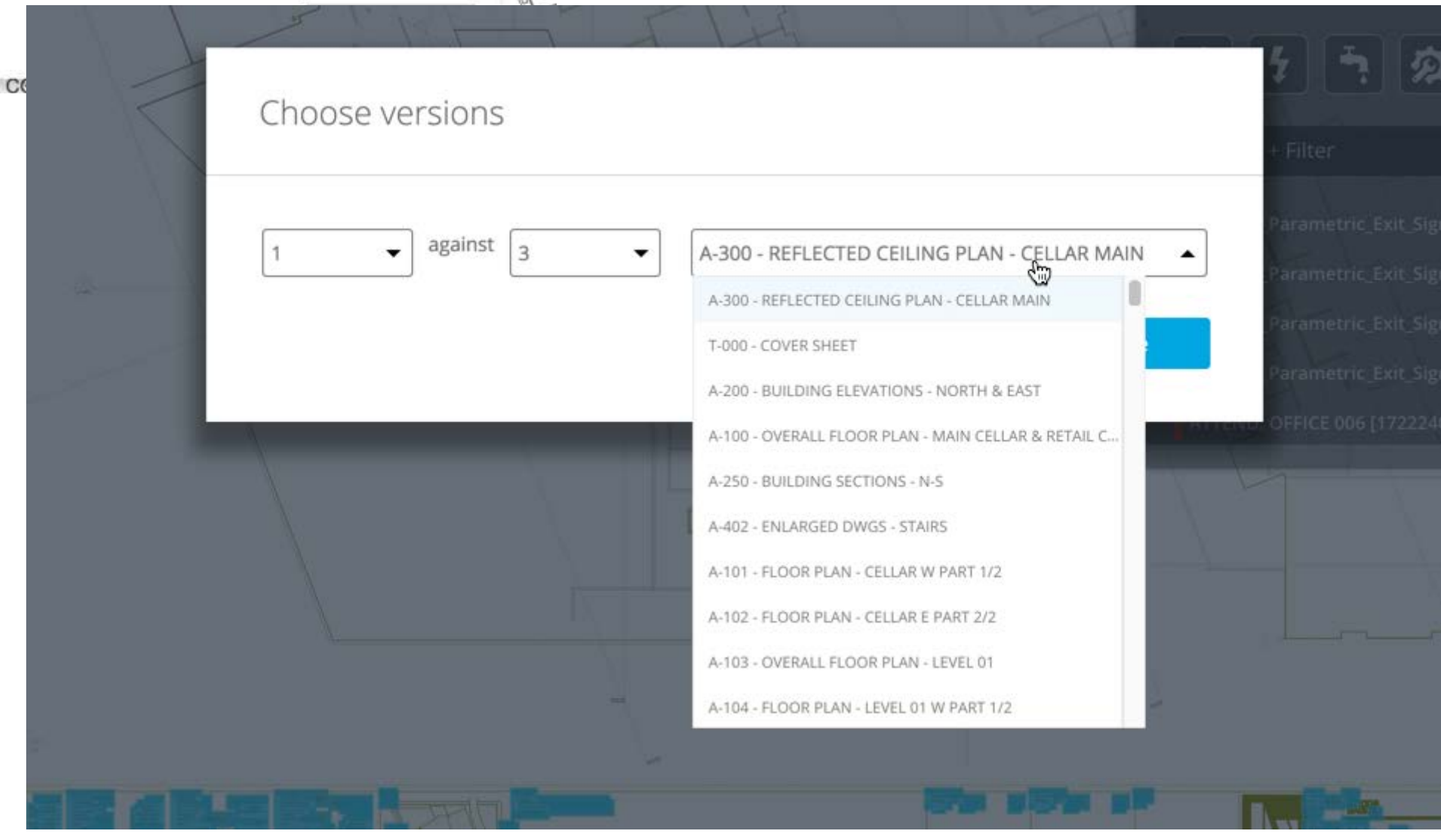
A-023 - LIFE SAFETY PLA...

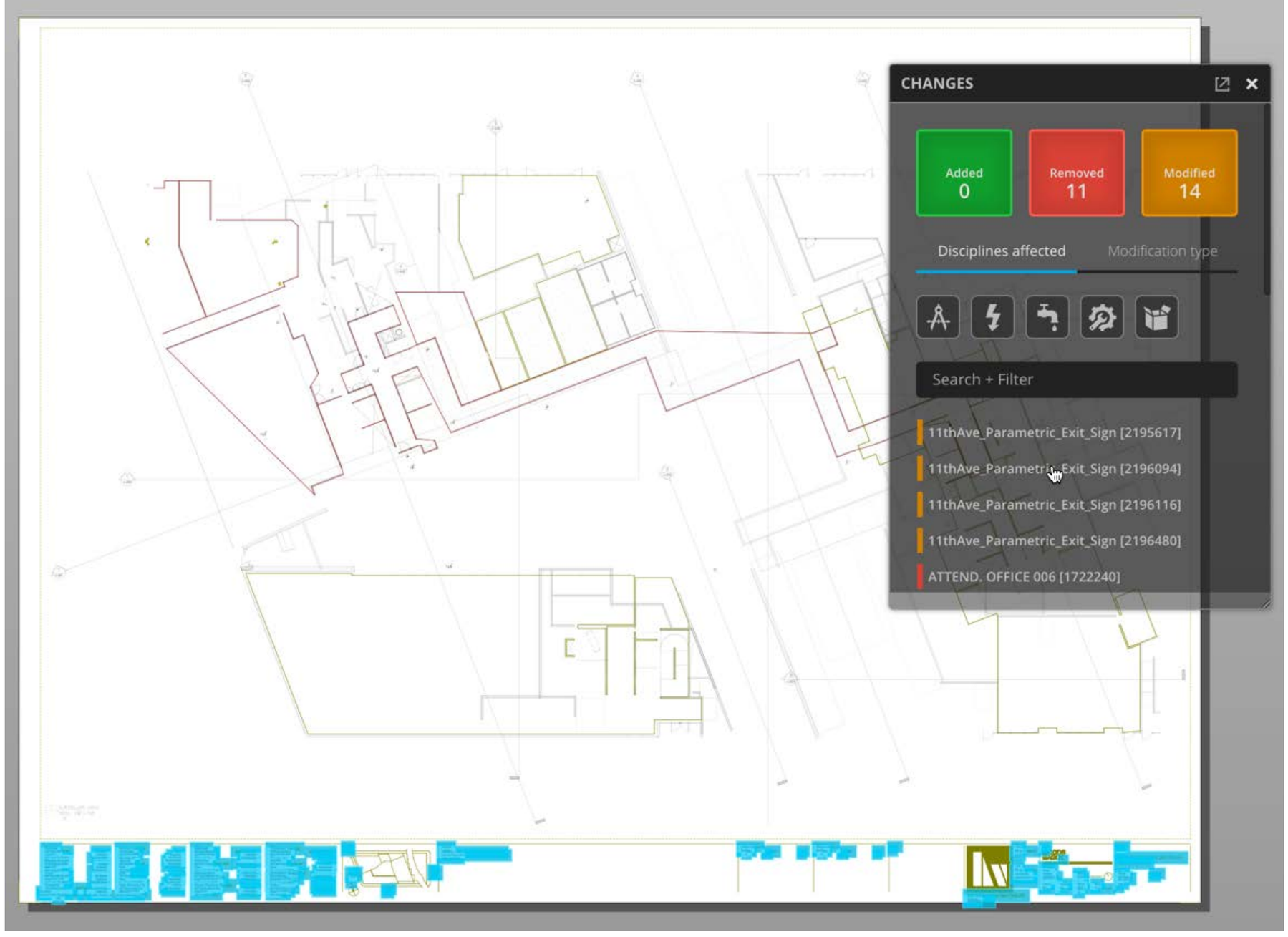

A-024 - LIFE SAFETY PLA...

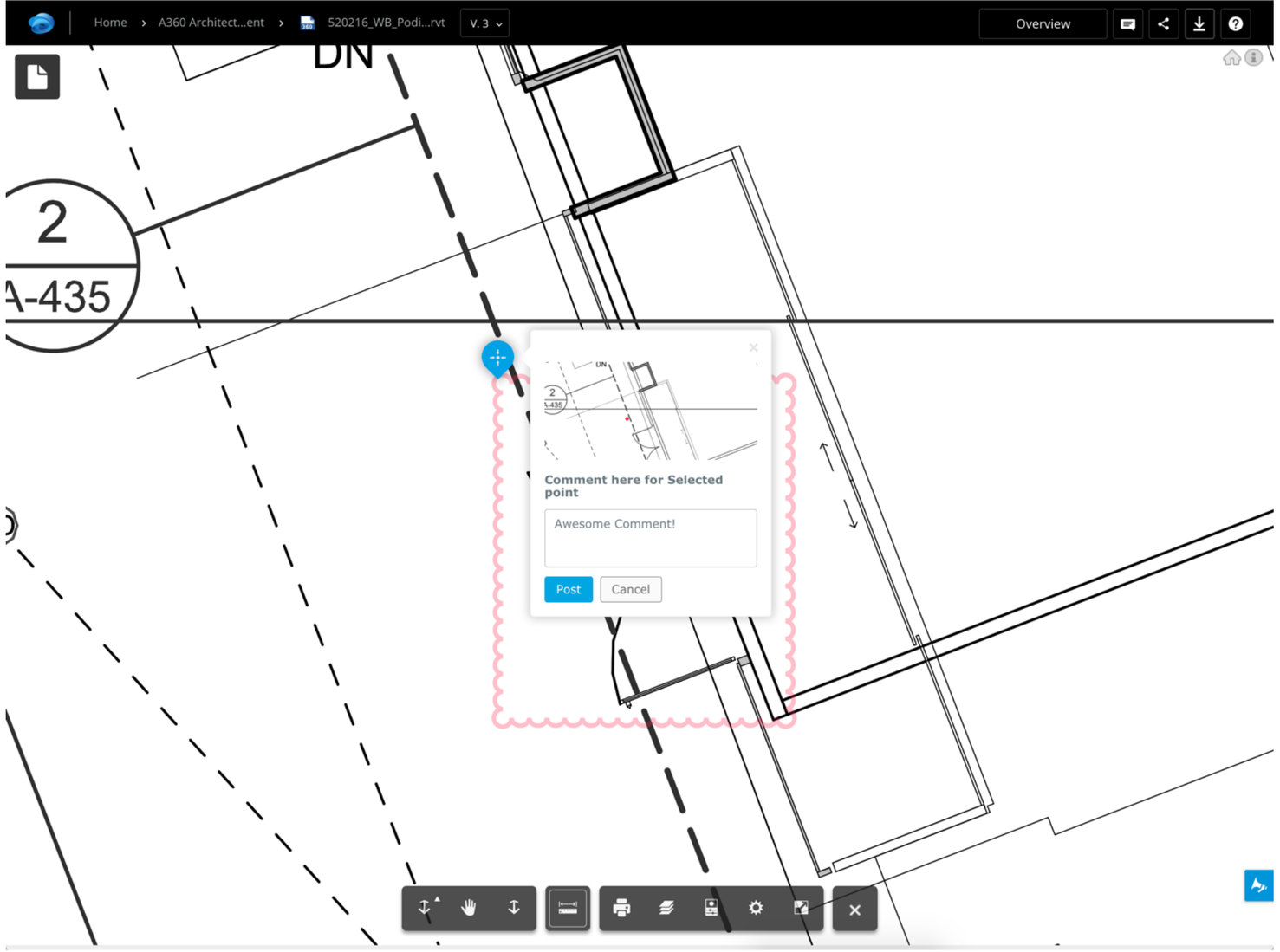
Home
A360 Architect...ent
520216_WB_Podi...rvt
V. 3
Overview
SHEETS (254)
A-016 - LIFE SAFETY PLAN - LEVEL 06 E & 07 E
A-017 - LIFE SAFETY PLAN - LEVEL 08 E & 11 E
A-019 - LIFE SAFETY PLAN - LEVEL 16 E
A-020 - LIFE SAFETY PLAN - LEVE 21 E
A-021 - LIFE SAFETY PLAN - LEVEL 24 E, 24 E, 26 ROOF E
A-022 - LIFE SAFETY PLAN - LEVEL 06 W
A-023 - LIFE SAFETY PLAN - LEVEL 10 W
A-024 - LIFE SAFETY PLAN - LEVEL 15 W
A-025 - LIFE SAFETY PLAN - LEVEL 20 W
A-026 - LIFE SAFETY PLAN - LEVEL 25 W
A-028 - LIFE SAFETY PLAN - LEVEL 30 W
A-029 - LIFE SAFETY PLAN - LEVEL 34 W, 35 ROOF W, 36
A-100 - OVERALL FLOOR PLAN - MAIN CELLAR & RETAIL
A-101 - FLOOR PLAN - CELLAR W PART 1/2
A-102 - FLOOR PLAN - CELLAR E PART 2/2
A-103 - OVERALL FLOOR PLAN - LEVEL 01
Sheet: A-103 - OVERALL FLOOR PLAN - LEVEL 01
A-104 - FLOOR PLAN - LEVEL 01 W PART 1/2
A-105 - FLOOR PLAN - LEVEL 01 E PART 2/2
A-106 - OVERALL FLOOR PLAN - LEVEL 02
A-107 - FLOOR PLAN - LEVEL 02 W PART 1/2
A-108 - FLOOR PLAN - LEVEL 02 E PART 2/2
A-109 - OVERALL FLOOR PLAN - LEVEL 03
A-110 - FLOOR PLAN - LEVEL 03 W PART 1/2
A-111 - FLOOR PLAN - LEVEL 03 E PART 2/2
A-112 - OVERALL FLOOR PLAN - LEVEL 04
A-113 - FLOOR PLAN - LEVEL 04 W PART 1/2
A-114 - FLOOR PLAN - LEVEL 04 E PART 2/2
A-115 - OVERALL FLOOR PLAN - LEVEL 05 & BRIDGE ROOF
LEGEND
PROPERTY LINE
FLOOD-PROOF WALL
FLOOD-RATED GLASS STOREFRONT
REMOVABLE FLOOD BARRIER
AREA ABOVE FLOOD PLANE (PLUS 1FT FREEBOARD)
AREA BELOW FLOOD PLANE (DRY FLOOD-PROOFED)
AREA BELOW FLOOD PLANE (WET FLOOD-PROOFED)
FLOOD NOTES
FLOOD-RESISTANT MATERIALS AND FINISHES ONLY PER ASCE 24 TABLE 5-1 (G 304.1.1 ITEM 4).
G104.5 CERTIFICATIONS. THE PERMIT APPLICATION SHALL INCLUDE THE APPLICABLE CERTIFICATIONS IN ACCORDANCE WITH SECTIONS G104.5.1 THROUGH G104.5.3.
G104.5.1 A-ZONES. FOR CONSTRUCTION IN A-ZONES, THE PERMIT APPLICATION SHALL INCLUDE THE FOLLOWING CERTIFICATIONS, AS APPLICABLE:
1. WET FLOODPROOFING CERTIFICATION. THE DESIGN PROVIDES FOR THE AUTOMATIC ENTRY AND EXIT OF FLOODWATERS FOR EQUALIZATION OF HYDROSTATIC FLOOD FORCES IN ACCORDANCE WITH SECTION 2.6.2. ASCE 24.
2. DRY FLOODPROOFING CERTIFICATION FOR NONRESIDENTIAL BUILDINGS. DRY FLOODPROOFING IS DESIGNED IN ACCORDANCE WITH ASCE 24.
3. UTILITY CERTIFICATIONS. ALL HEATING, VENTILATION, AIR CONDITIONING, PLUMBING, ELECTRICAL AND OTHER SERVICES FACILITIES AND EQUIPMENT
18TH STREET
17TH STREET
COURTYARD (LANDSCAPE DESIGN - NIC)
PLAZ A (NIC)

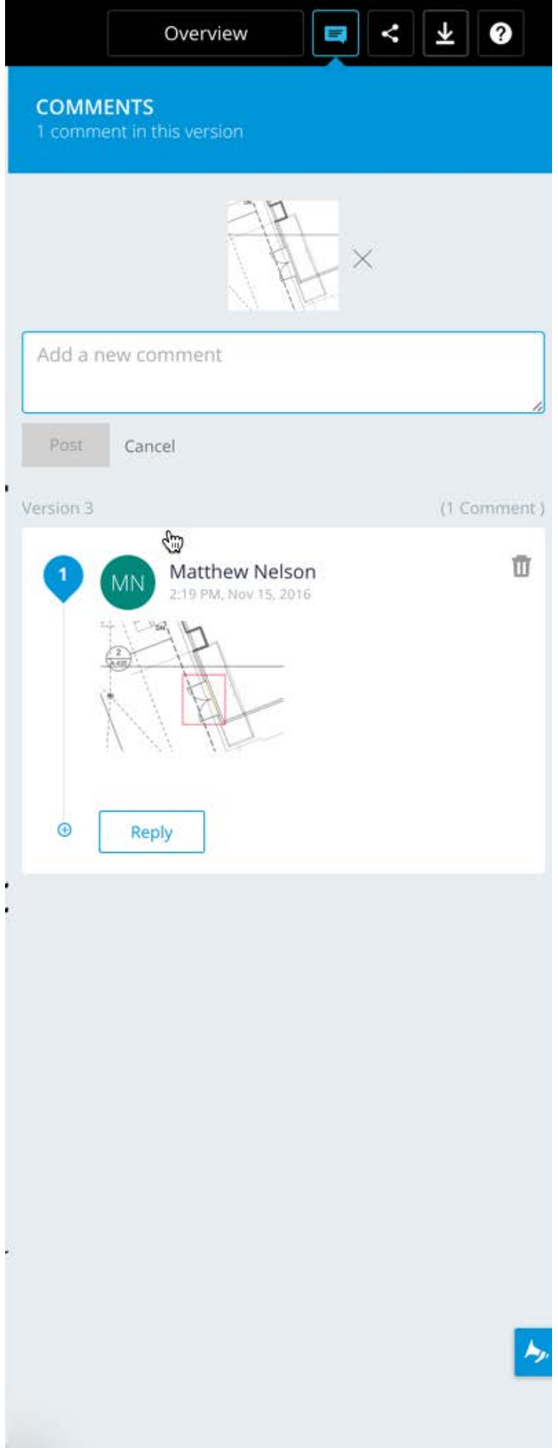

MODEL
Graphics
WB_To be reviewed_i
Identity Data
Organization Name
Organization Description
Building Name
Author
Workset
Project Info
Edited by
Design Option
Main Model
Energy Analysis
Energy Settings
Other
Project Issue Date
05-01-2016
Project Status
Project Status
Client Name
76 ELEVENTH AVENUE PROPERTY OWNER, LLC
Project Address
Enter address here
Project Name
76 ELEVENTH AVE
Project Number
520216

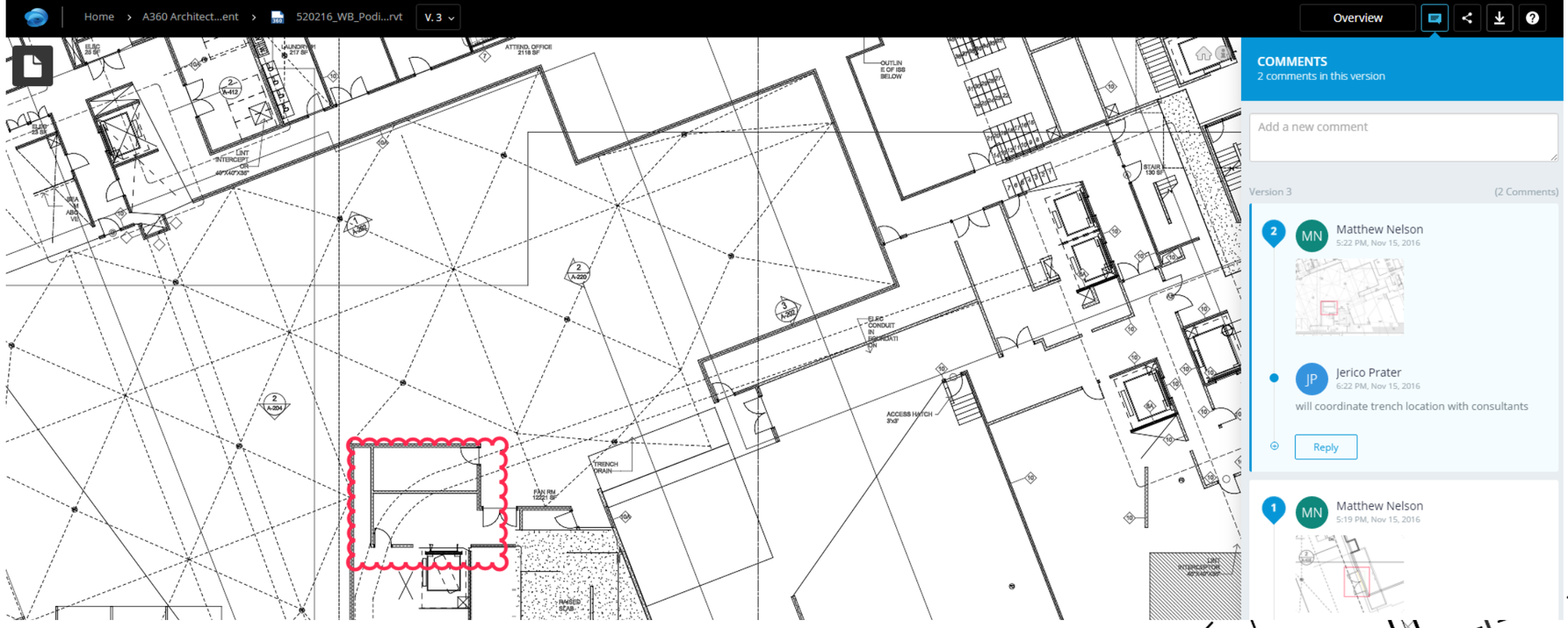

Home › A360 Architect...ent › 520216_WB_Podi...rvt
V. 3
Versions
Compare versions
3
Updated by Jerico Prater
59 minutes ago
2
Updated by Jerico Prater
20 hours ago
1
Created by Jerico Prater
8:17 PM October 25, 2016

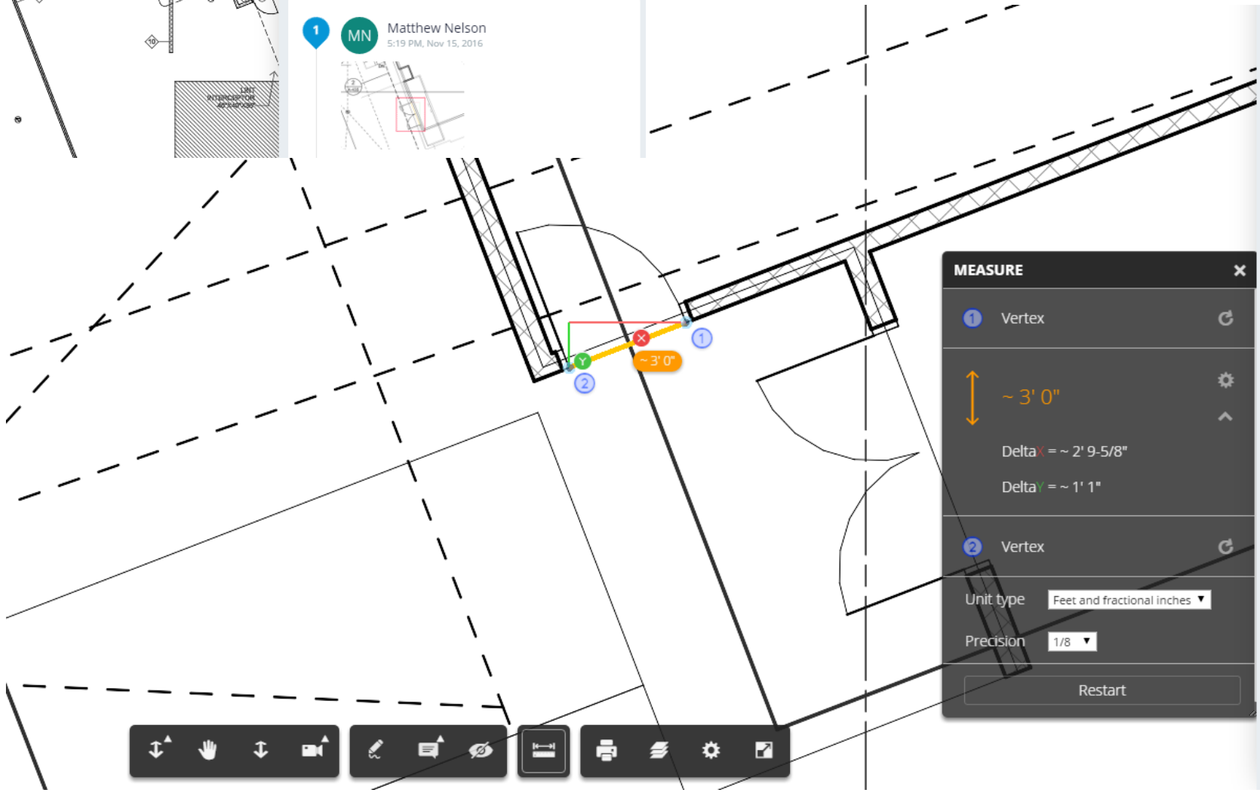

Choose versions
1
against
3
A-300 - REFLECTED CEILING PLAN - CELLAR MAIN
A-300 - REFLECTED CEILING PLAN - CELLAR MAIN
T-000 - COVER SHEET
A-200 - BUILDING ELEVATIONS - NORTH & EAST
A-100 - OVERALL FLOOR PLAN - MAIN CELLAR & RETAIL C...
A-250 - BUILDING SECTIONS - N-S
A-402 - ENLARGED DWGS - STAIRS
A-101 - FLOOR PLAN - CELLAR W PART 1/2
A-102 - FLOOR PLAN - CELLAR E PART 2/2
A-103 - OVERALL FLOOR PLAN - LEVEL 01
A-104 - FLOOR PLAN - LEVEL 01 W PART 1/2

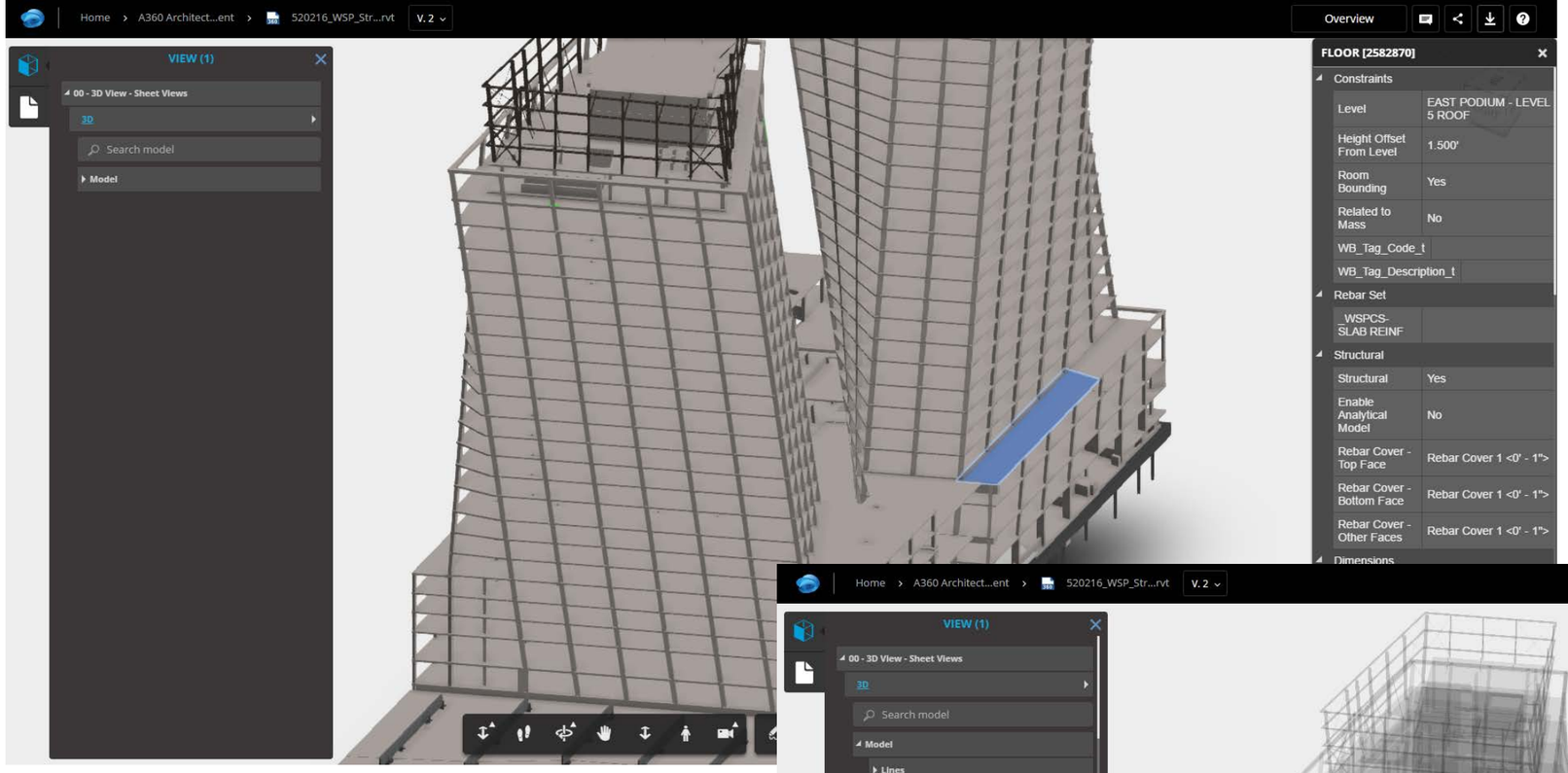

CHANGES
Added
0
Removed
11
Modified
14
Disciplines affected
Modification type
Search + Filter
11thAve_Parametric_Exit_Sign [2195617]
11thAve_Parametric_Exit_Sign [2196094]
11thAve_Parametric_Exit_Sign [2196116]
11thAve_Parametric_Exit_Sign [2196480]
ATTEND. OFFICE 006 [1722240]

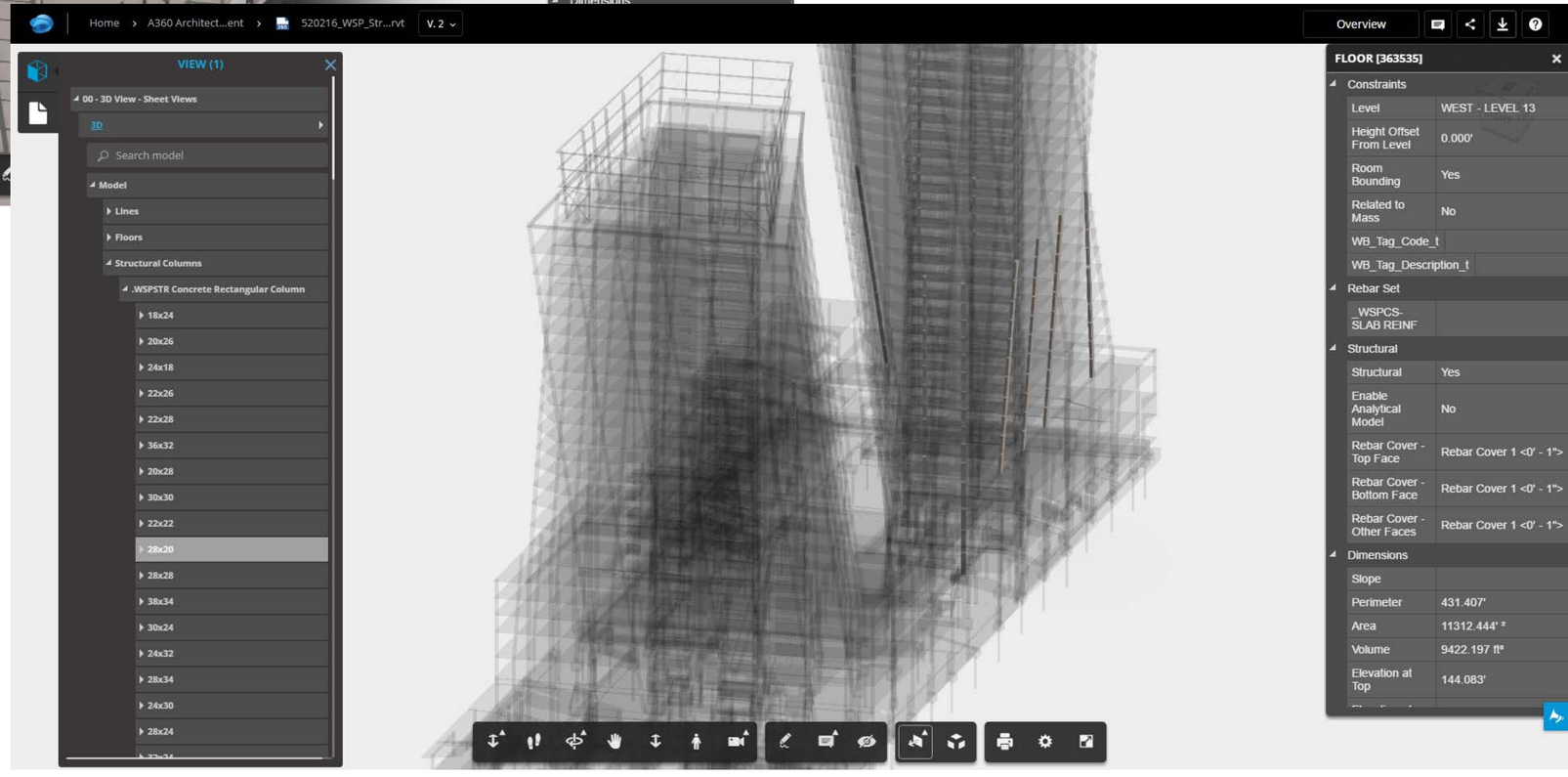

Home
A360 Architect...ent
520216_WB_Podi...rvt
V. 3
Overview
2
A-435
Comment here for Selected point
Awesome Comment!
Post
Cancel


Overview
COMMENTS
1 comment in this version
Add a new comment
Post
Cancel
Version 3
(1 Comment)
1
MN
Matthew Nelson
2:19 PM, Nov 15, 2016
Reply


Home › A360 Architect...ent › 520216_WB_Podi...rvt
V. 3
Overview
COMMENTS
2 comments in this version
Add a new comment
Version 3
(2 Comments)
Matthew Nelson
5:22 PM, Nov 15, 2016
Jerico Prater
6:22 PM, Nov 15, 2016
will coordinate trench location with consultants
Reply
Matthew Nelson
5:19 PM, Nov 15, 2016


MEASURE
Vertex
~ 3' 0"
DeltaX = ~ 2' 9-5/8"
DeltaY = ~ 1' 1"
Vertex
Unit type
Feet and fractional inches
Precision
1/8
Restart


Home › A360 Architect...ent › 520216_WSP_Str...rvt
V. 2
Overview
VIEW (1)
00 - 3D View - Sheet Views
3D
Search model
Model
FLOOR [2582870]
Constraints
Level
EAST PODIUM - LEVEL 5 ROOF
Height Offset From Level
1.500'
Room Bounding
Yes
Related to Mass
No
WB_Tag_Code_t
WB_Tag_Description_t
Rebar Set
_WSPCS-SLAB REINF
Structural
Structural
Yes
Enable Analytical Model
No
Rebar Cover - Top Face
Rebar Cover 1 <0' - 1">
Rebar Cover - Bottom Face
Rebar Cover 1 <0' - 1">
Rebar Cover - Other Faces
Rebar Cover 1 <0' - 1">
Dimensions


Home › A360 Architect...ent › 520216_WSP_Str...rvt
V. 2
Overview
VIEW (1)
00 - 3D View - Sheet Views
3D
Search model
Model
Lines
Floors
Structural Columns
.WSPSTR Concrete Rectangular Column
18x24
20x26
24x18
22x26
22x28
36x32
20x28
30x30
22x22
28x20
28x28
38x34
30x24
24x32
28x34
24x30
28x24
FLOOR [363535]
Constraints
Level
WEST - LEVEL 13
Height Offset From Level
0.000'
Room Bounding
Yes
Related to Mass
No
WB_Tag_Code_t
WB_Tag_Description_t
Rebar Set
_WSPCS-SLAB REINF
Structural
Structural
Yes
Enable Analytical Model
No
Rebar Cover - Top Face
Rebar Cover 1 <0' - 1">
Rebar Cover - Bottom Face
Rebar Cover 1 <0' - 1">
Rebar Cover - Other Faces
Rebar Cover 1 <0' - 1">
Dimensions
Slope
Perimeter
431.407'
Area
11312.444' ²
Volume
9422.197 ft³
Elevation at Top
144.083'

Wiki

New Wiki Page

Title	Created By	Updated By	Last updated
Sheet Naming & Numbering Conventions	Jerico Prater	Jerico Prater	Nov 12, 2016
Publish Log	Jerico Prater	Jerico Prater	Nov 13, 2016
Nested Revit Families	Jerico Prater	Jerico Prater	Nov 13, 2016
Automation Processes	Jerico Prater	Jerico Prater	Nov 13, 2016

Publish

Automation Processes

Created at 9:36, November 12, 2016 | Last updated by Jerico Prater | Nov 13, 2016

Format | Font | Size

There are several automation processes being used on this project. Each process is outlined below with links to the necessary support files.

Apartment numbers and areas:

Apartments are tagged in the Towers model via Revit rooms. There are shared parameters in the rooms for the apartment unit number and apartment area. The apartment area plans are maintained in the Towers model and once the areas are updated (boundaries and name/unit number), we use a Dynamo definition to push that information into the corresponding rooms. The script can be found here:

Area boundary lines:

Gross building areas are calculated at the exterior face of the enclosure (massing) at a height of 8" above the TOFF level. We use a Dynamo definition to create the area boundary lines, the script can be found here:

Gypsum board column furring:

The gypsum board column furring throughout the building along the perimeter is generated via Grasshopper and Dynamo. This allows us to coordinate with the structural model, maintain consistency in the column wrapping, and maintain minimum clearances. This is part of the Exterior Wall workflow, supporting files can be found here:

Edge of Slab (EOS) coordinates:

COMMENTS

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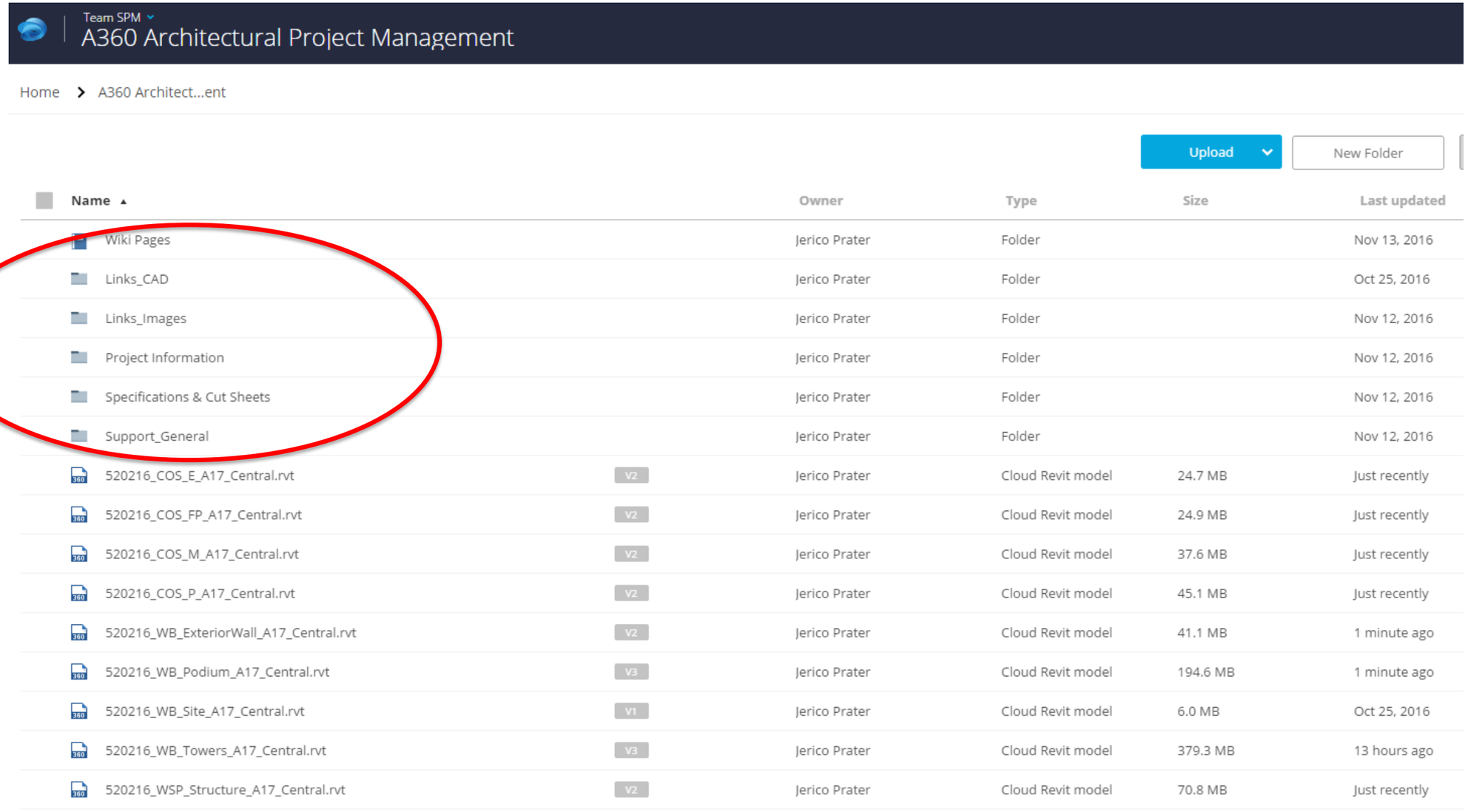
(4 Comments)

JP Jerico Prater
12:45 AM, Nov 13, 2016
Updated.

JP Jerico Prater
9:46 PM, Nov 12, 2016
Updated.

JP Jerico Prater
9:45 PM, Nov 12, 2016
Updated.

Supporting project data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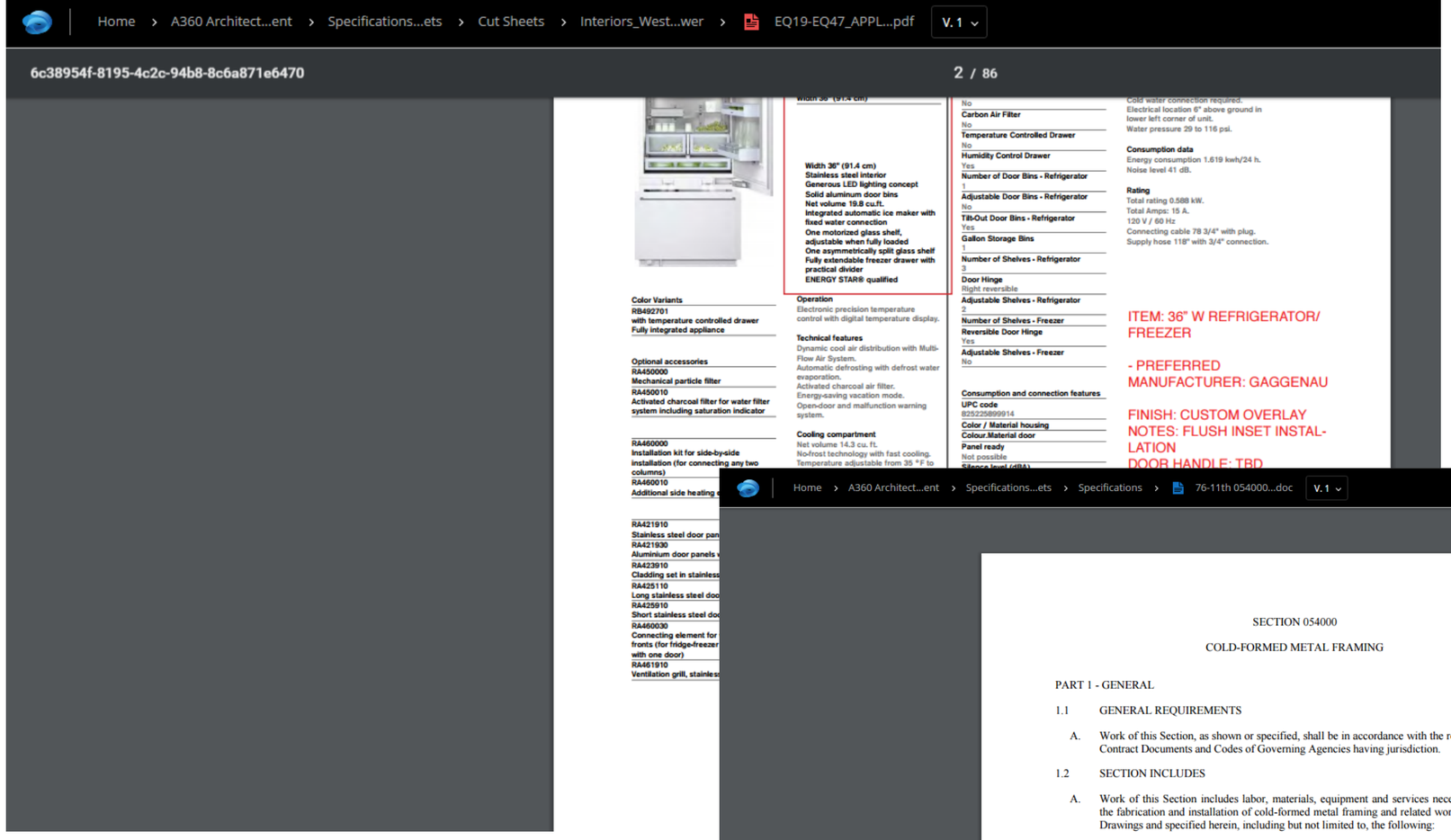
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V. 1
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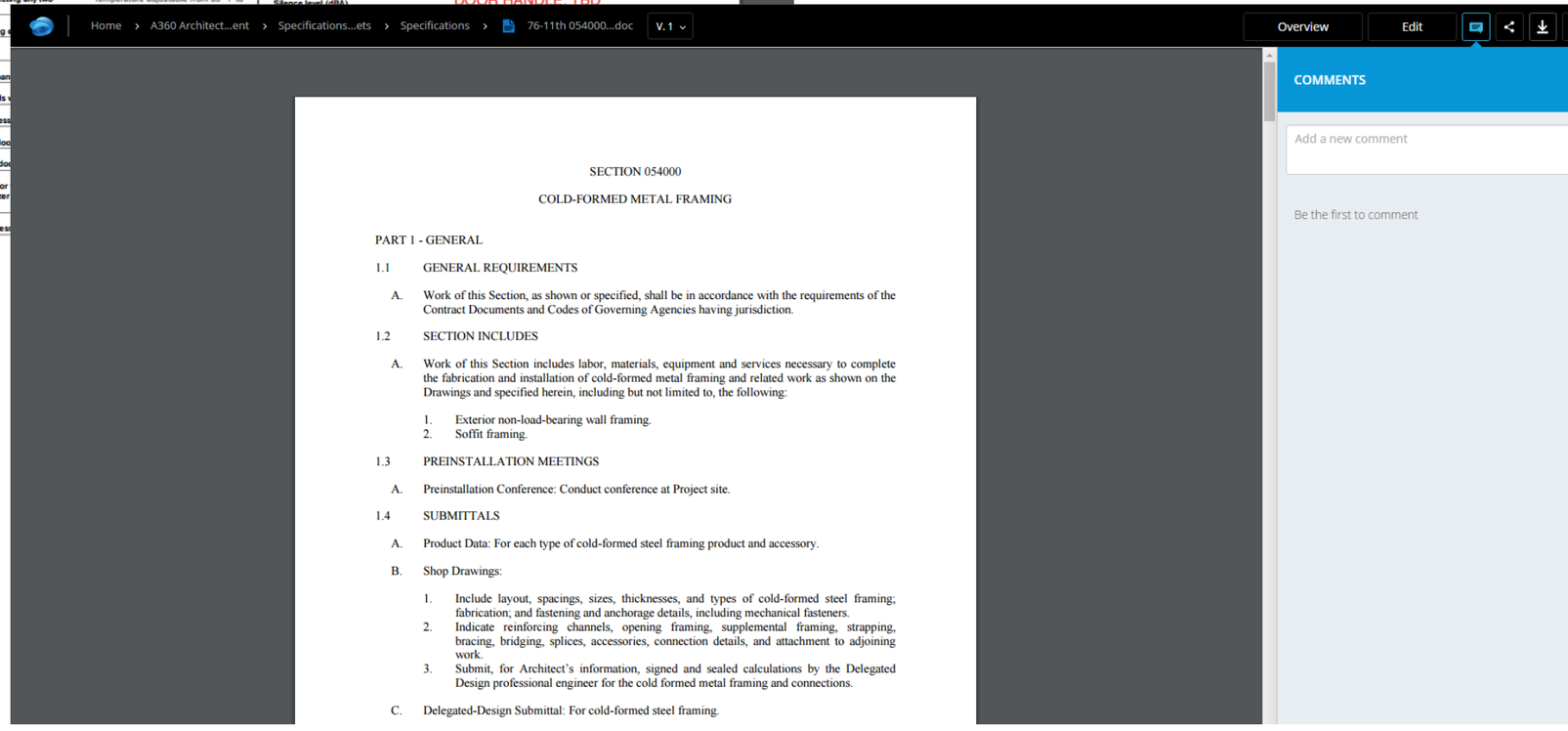
2 / 86
Width 36" (91.4 cm)
Stainless steel interior
Generous LED lighting concept
Solid aluminum door bins
Net volume 19.8 cu.ft.
Integrated automatic ice maker with fixed water connection
One motorized glass shelf, adjustable when fully loaded
One asymmetrically split glass shelf
Fully extendable freezer drawer with practical divider
ENERGY STAR® qualified
Color Variants
RB492701
with temperature controlled drawer
Fully integrated appliance
Optional accessories
RA450000
Mechanical particle filter
RA450010
Activated charcoal filter for water filter system including saturation indicator
RA460000
Installation kit for side-by-side installation (for connecting any two columns)
RA460010
RA421910
Stainless steel door pan
RA421930
RA423910
Cladding set in stainless
RA425110
Long stainless steel doo
RA425910
Short stainless steel doo
RA460030
Connecting element for fronts (for fridge-freezer with one door)
RA461910
Ventilation grill, stainles
Operation
Electronic precision temperature control with digital temperature display.
Technical features
Dynamic cool air distribution with Multi-Flow Air System.
Automatic defrosting with defrost water evaporation.
Activated charcoal air filter.
Energy-saving vacation mode.
Open-door and malfunction warning system.
Cooling compartment
Net volume 14.3 cu. ft.
No-frost technology with fast cooling.
Temperature adjustable from 35 °F to
No
Carbon Air Filter
No
Temperature Controlled Drawer
No
Humidity Control Drawer
Yes
Number of Door Bins - Refrigerator
1
Adjustable Door Bins - Refrigerator
No
Tilt-Out Door Bins - Refrigerator
Yes
Gallon Storage Bins
1
Number of Shelves - Refrigerator
3
Door Hinge
Right reversible
Adjustable Shelves - Refrigerator
2
Number of Shelves - Freezer
Reversible Door Hinge
Yes
Adjustable Shelves - Freezer
No
Consumption and connection features
UPC code
Color / Material housing
Colour Material door
Panel ready
Not possible
Cold water connection required.
Electrical location 6" above ground in lower left corner of unit.
Water pressure 29 to 116 psi.
Consumption data
Energy consumption 1.619 kwh/24 h.
Noise level 41 dB.
Rating
Total rating 0.588 kW.
Total Amps: 15 A.
120 V / 60 Hz
Connecting cable 78 3/4" with plug.
Supply hose 118" with 3/4" connection.
ITEM: 36" W REFRIGERATOR/ FREEZER
- PREFERRED MANUFACTURER: GAGGENAU
FINISH: CUSTOM OVERLAY
NOTES: FLUSH INSET INSTAL-LATION
DOOR HANDLE: TBD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V. 1
Overview
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SECTION 054000
COLD-FORMED METAL FRAMING
PART 1 - GENERAL
1.1 GENERAL REQUIREMENTS
A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents and Codes of Governing Agencies having jurisdiction.
1.2 SECTION INCLUDES
A. Work of this Section includes labor, materials, equipment and services necessary to complete the fabrication and installation of cold-formed metal framing and related work as shown on the Drawings and specified herein, including but not limited to, the following:
1. Exterior non-load-bearing wall framing.
2. Soffit framing.
1.3 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at Project site.
1.4 SUBMITTALS
A. Product Data: For each type of cold-formed steel framing product and accessory.
B. Shop Drawings:
1. Include layout, spacings, sizes, thicknesses, and types of cold-formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners.
2. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
3. Submit, for Architect's information, signed and sealed calculations by the Delegated Design professional engineer for the cold formed metal framing and connections.
C. Delegated-Design Submittal: For cold-formed steel framing.

Summary / pros & cons

- Linked file workflow is painful
- Wiki is limited
  - Formatting options, mentions, hierarchy, images, versioning
- Markups are not robust
  - Would like action items, issue tracking, push forward options
- Communicator has limitations
- Publishing settings are lacking
  - Would like to be able to publish multiple sets (QC, Construction, etc)
- Some features are unclear or not useful yet
  - Layer manager, calendar, live review session

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