

Revit Template

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find me at W7k.pl License: CC BY-SA

About me



My webpage:
<https://w7k.pl/>



More about my tools:
<https://apps.autodesk.com/en/Publisher/PublisherHomepage?ID=8UP2BABQLV9LA6YG>

Why templates? First Choices

What kind of projects?

What is the current project stage?

How much time do you have?

How much experience do you have in your current job?

Write the answer down! Go to the project leaders for clarifications!

Repetition vs Uniqueness

Flexibility vs Control

Newbies vs Experts

CODE:

A - Architecture

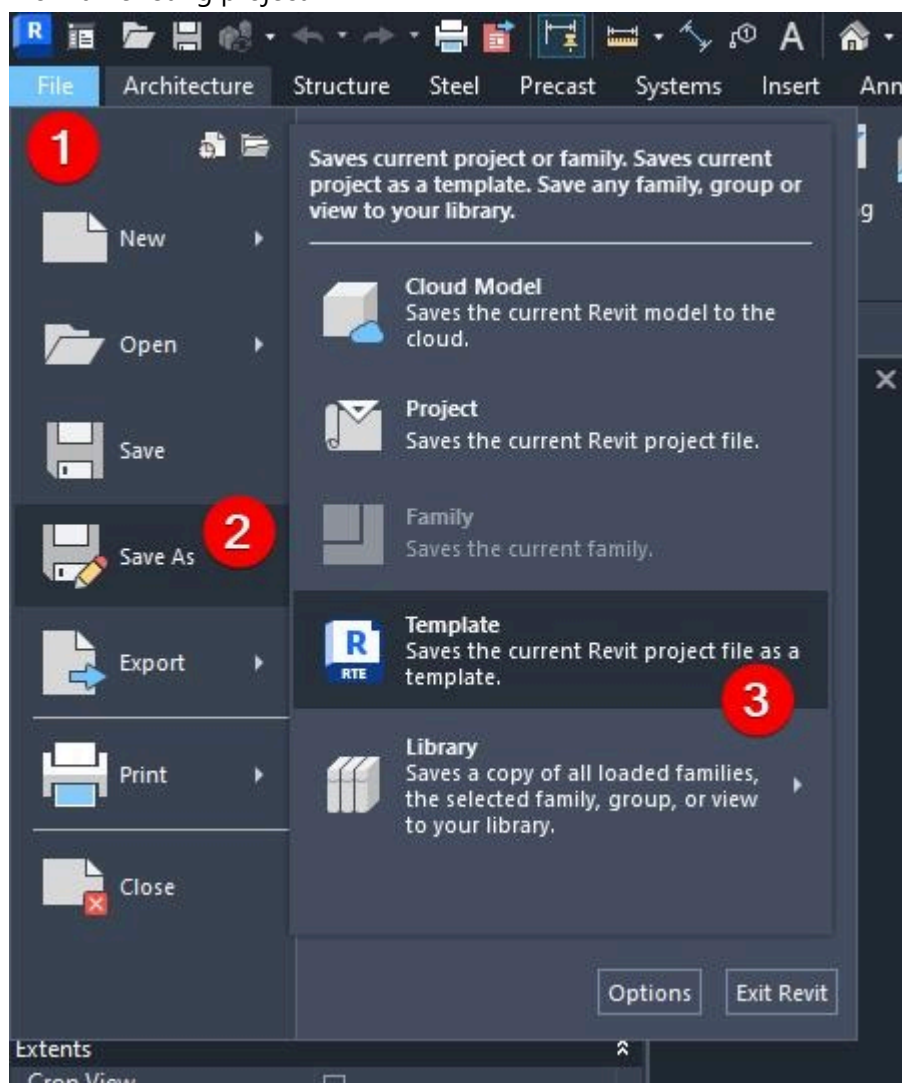
MEP - Mechanical, electrical and plumbing

S - Structure

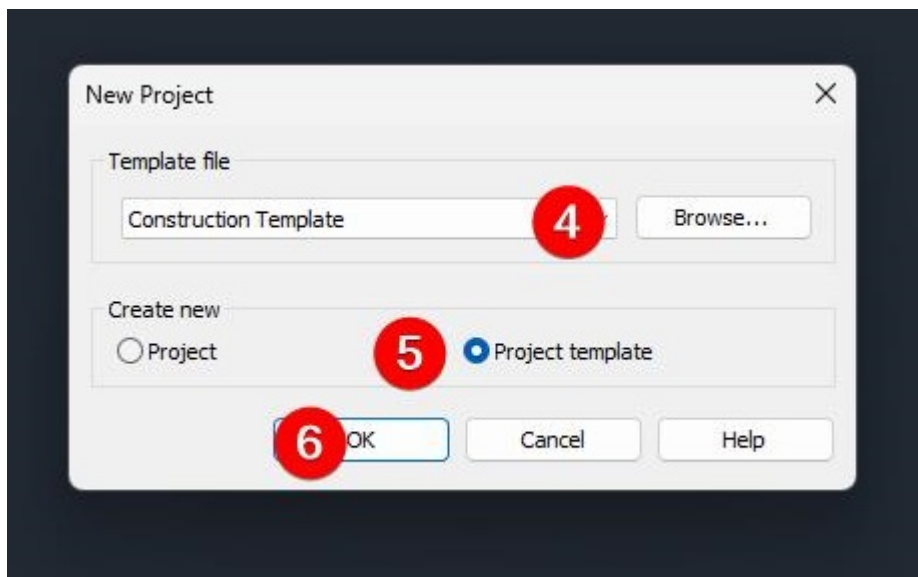
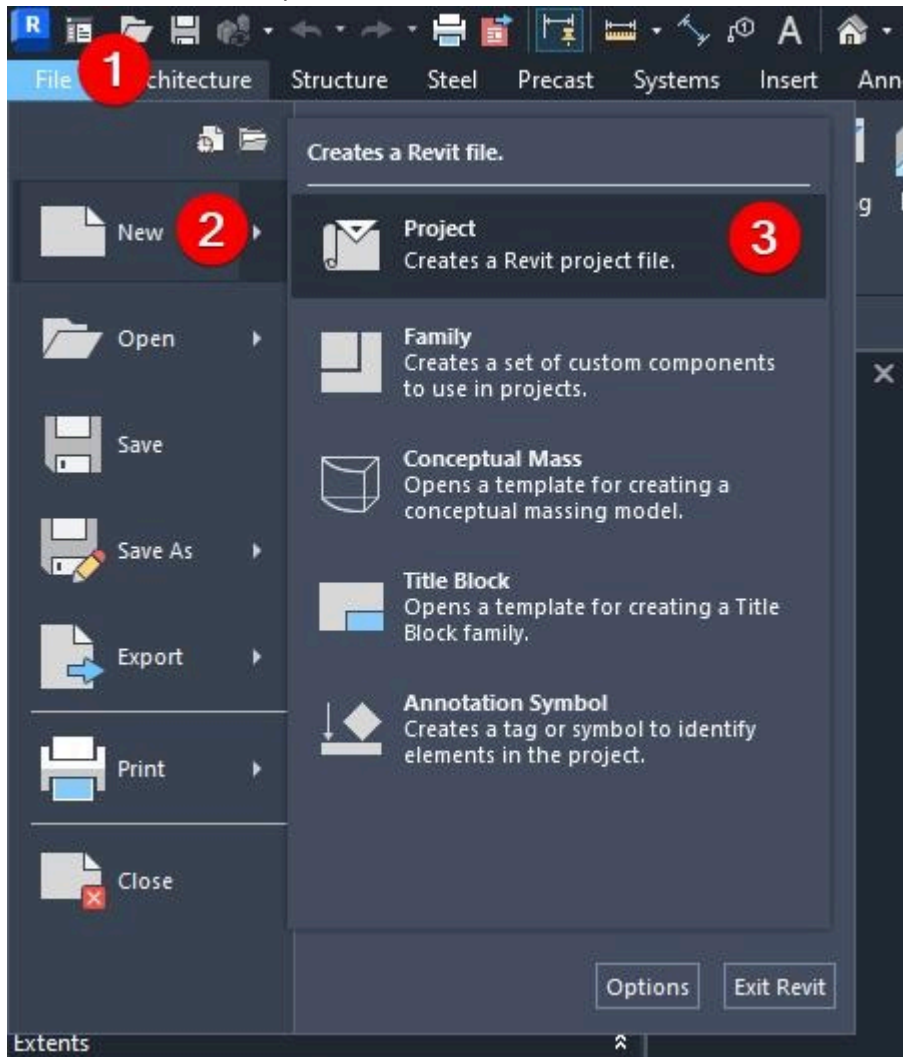
L - Landscape

Creating a new template

1. Buy it!
2. From an existing project



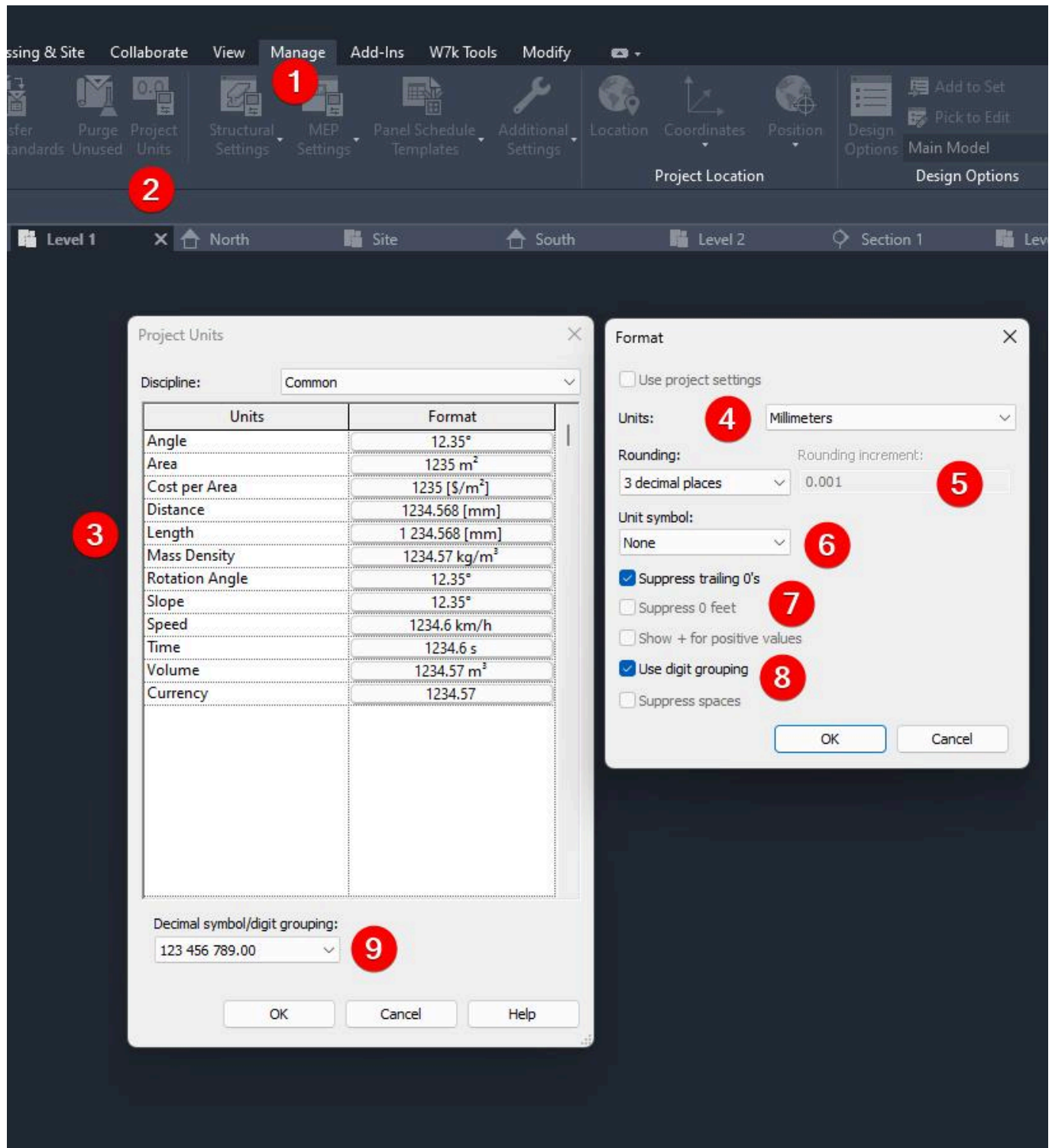
3. From default revit template



4. Transfer Project standards from other projects

Units

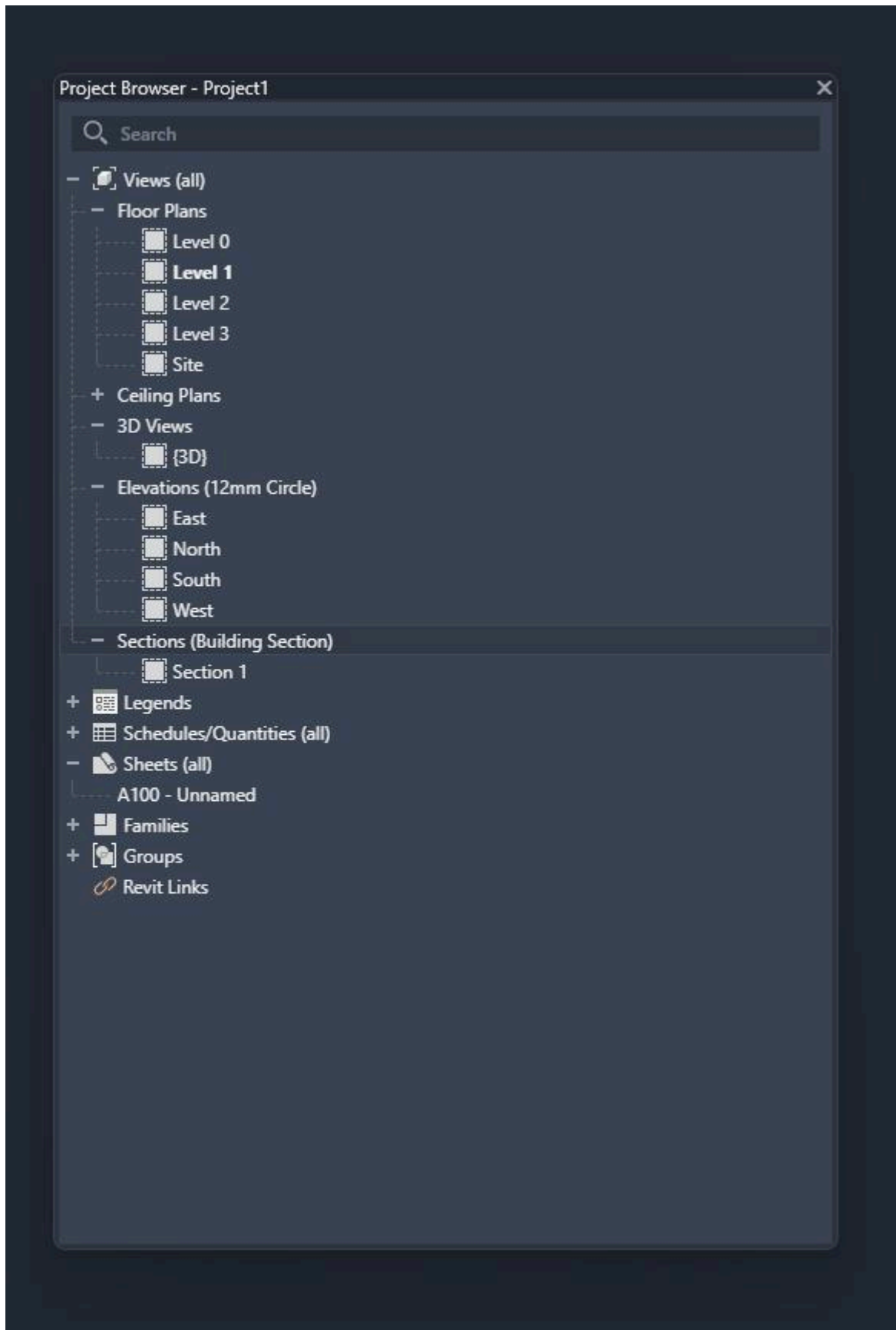
Example of recommended unit setup for Length in metric system:



Setting units:

- Specific to the your country!
- Always rounding set to 3 decimal places. It forces people to be more precise while modelling.
- Set units. Personal choice. Feel free to show them.
- Hides trailing zeros. Works very well with point 5. Always on.
- Something worth using. Which one do you prefer? 1000000 vs 1 000 000.
- Specific to your country so choose it based on the local custom.

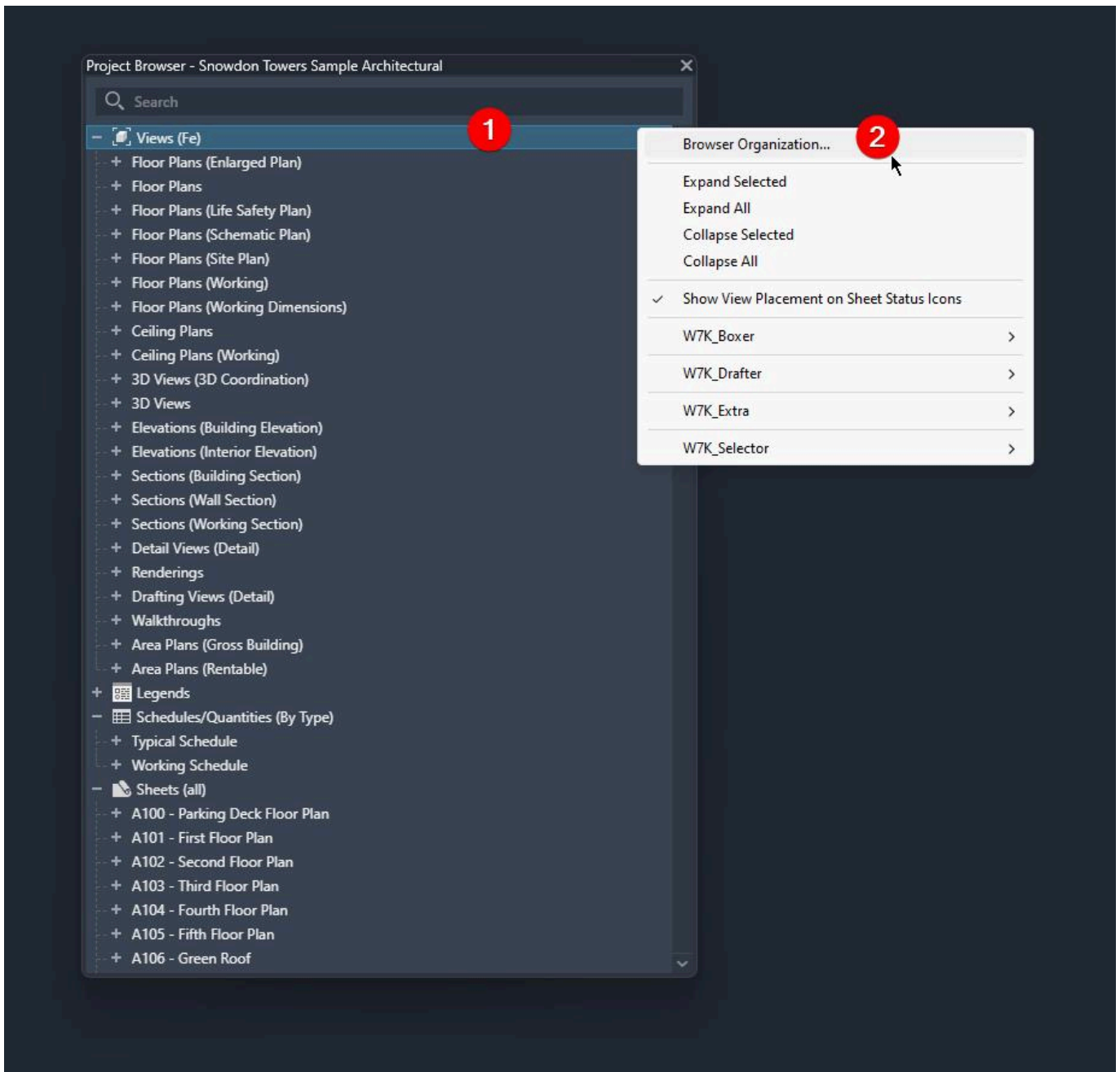
Project Browser



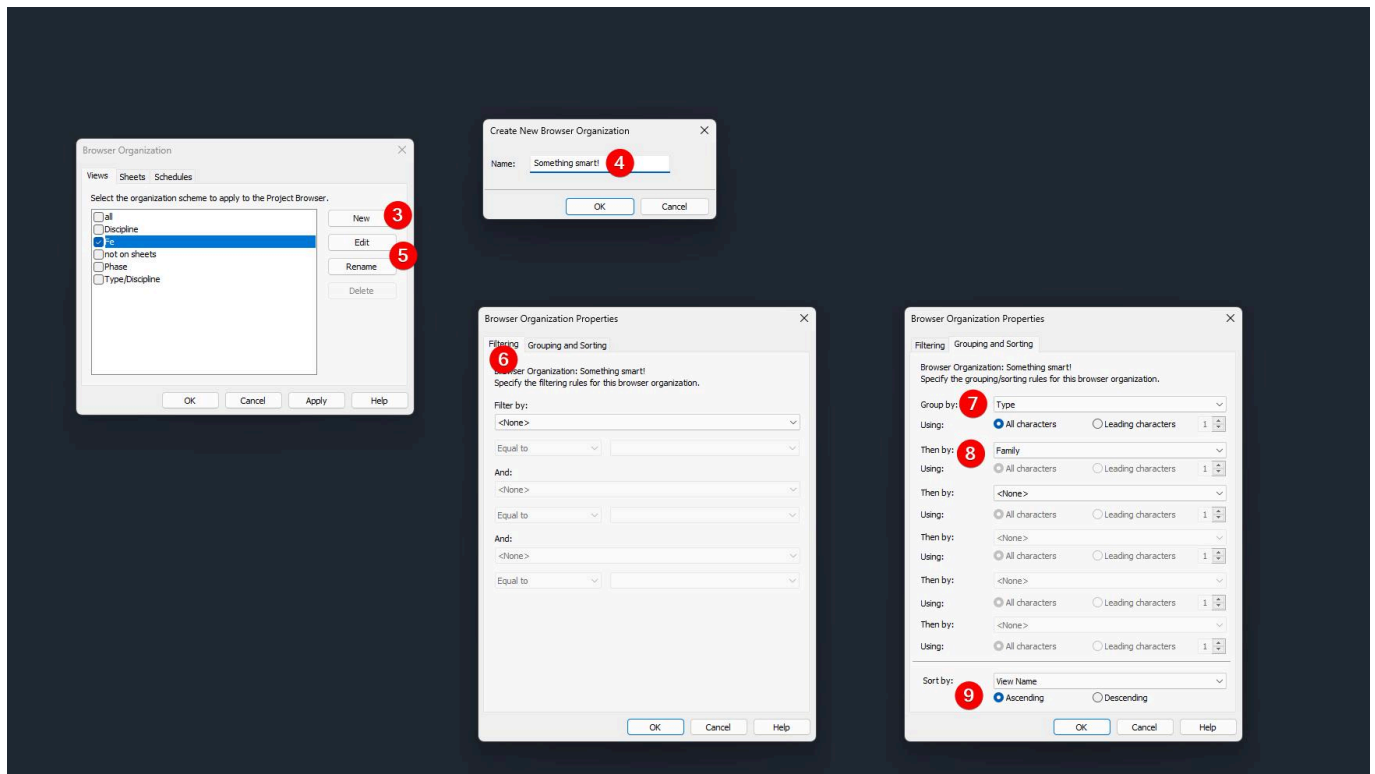
Views

Keep it simple and don't go for anything more than 2 levels deep.
BTW remember that changing it later changes it for everyone in the project!

How to change it?



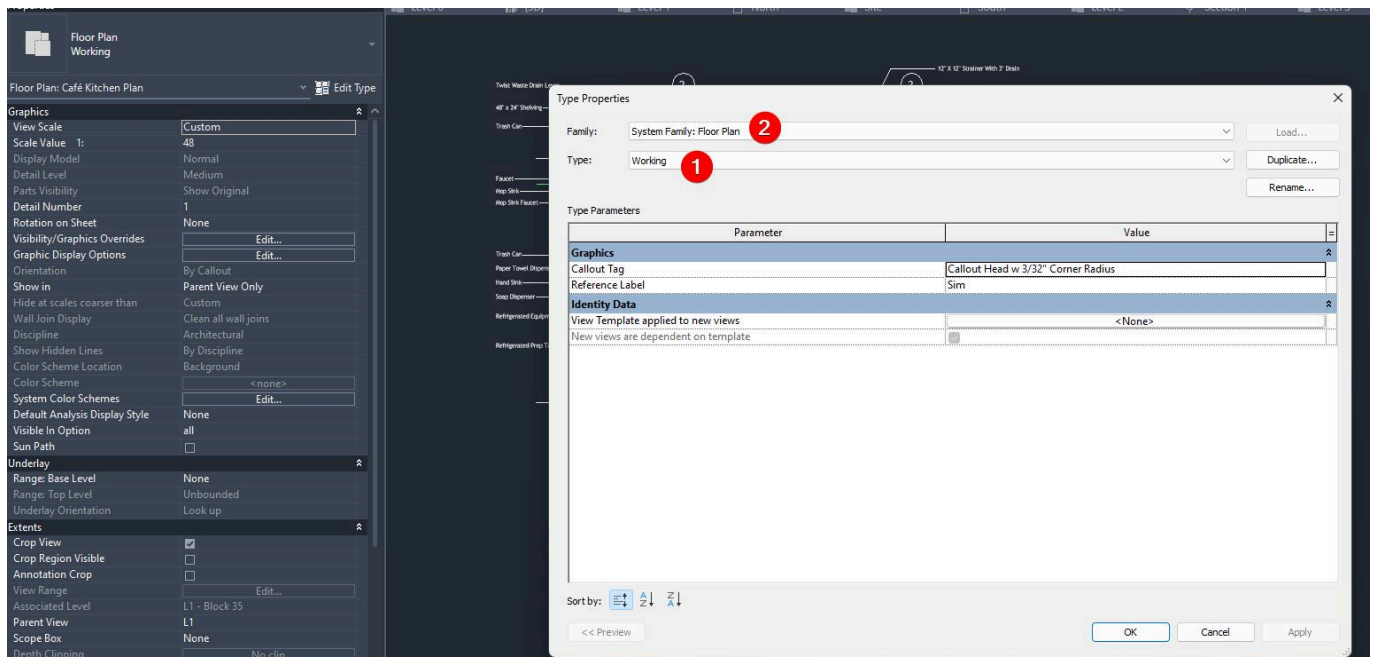
1. Right click.
2. Got To Browser Organization.



3. Create a new organization scheme.
4. Name it smartly!
5. Click Edit.
6. You can use this part to hide some views in your project browser. Objectively a waste of time - Why would you do this?
7. Here we are organizing our structure. Use group by: Type
8. Here you have more choices: Use group by: Family or by specific project parameter for views.
9. Sort by View Name. Ascending.

Some people use 3rd level: Group by Scale. Im not an enemy of it but not a fan either.

How does it works:

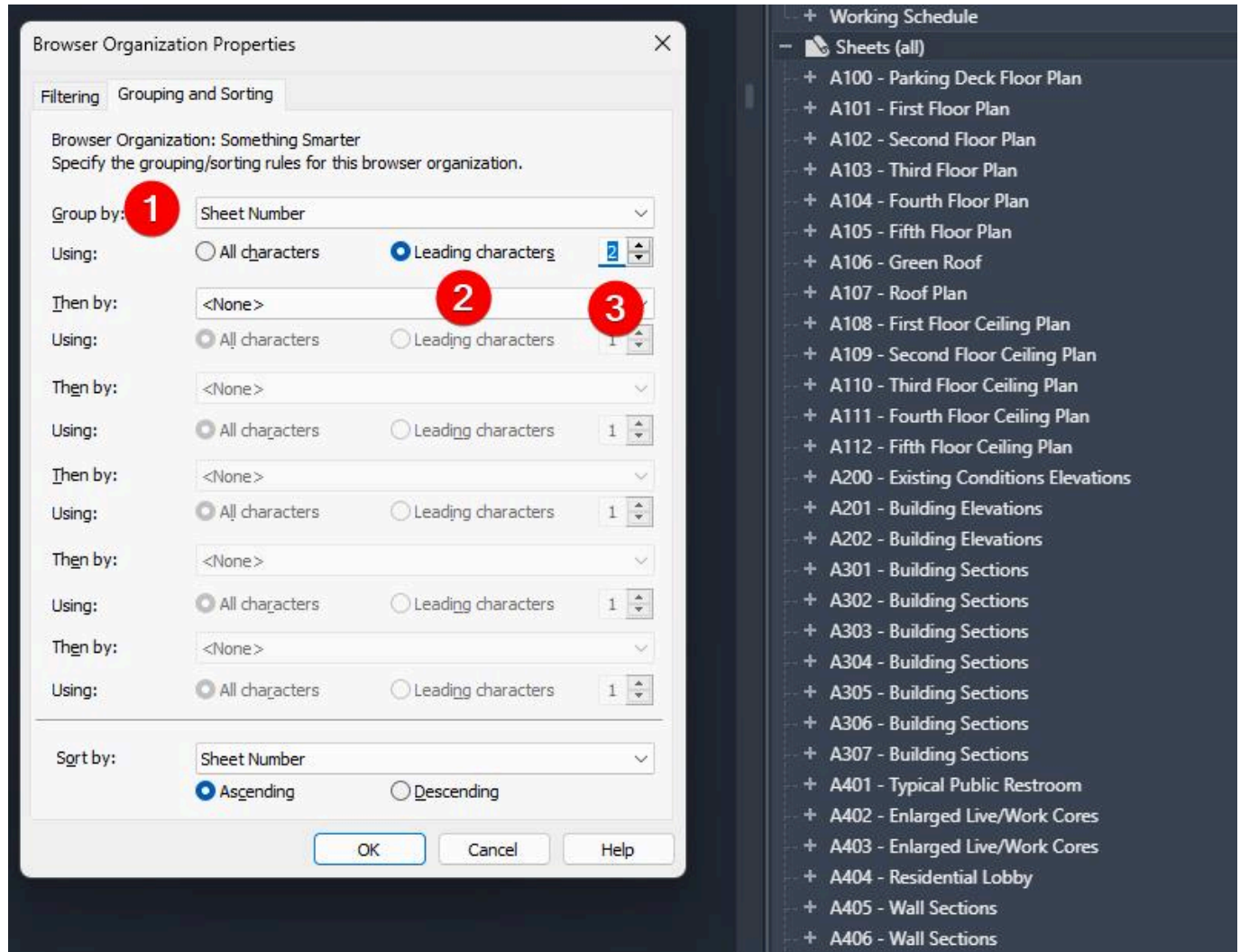


1. View Type. Make it generic like WIP, GA and avoid using things like WIP Plans. Remember to create the whole set (for plans, elevations and details) of these views in your template file!
2. Family : Floor Plan, Section, Elevation, RCP etc.

Sheets

How many sheets do you plan to have?

Sometimes not super obvious how to do it. Ideally you want to use you sheet number to divide your sheets into the series of drawings.



For example here:

1. Group by: Sheet Number
2. Choose leading characters..
3. Number of leading characters

Collections Revit 2025



I haven't seen anyone using it.

Some rules

Make sure to let your team know that BIM team during auditing/cleanup will delete:

1. Unnamed views so things like "Section 15" might disappear!
2. Unassigned views with "?" will suffer a similar fate.

Parameters

Project

Shared

Line Thicknesses

Default Line Thicknesses

Line Weights

Model Line Weights

Perspective Line Weights

Annotation Line Weights

Model line weights control line widths for objects like walls and windows in orthographic views. They depend on view scale.

There are 16 model line weights. Each can be given a size for each view scale. Click on a cell to change line width.

	1 : 10	1 : 20	1 : 50	1 : 100	1 : 200	1 : 500
1	0.1800 mm	0.1800 mm	0.1800 mm	0.1000 mm	0.1000 mm	0.1000 mm
2	0.2500 mm	0.2500 mm	0.2500 mm	0.1800 mm	0.1000 mm	0.1000 mm
3	0.3500 mm	0.3500 mm	0.3500 mm	0.2500 mm	0.1800 mm	0.1000 mm
4	0.7000 mm	0.5000 mm	0.5000 mm	0.3500 mm	0.2500 mm	0.1800 mm
5	1.0000 mm	0.7000 mm	0.7000 mm	0.5000 mm	0.3500 mm	0.2500 mm
6	1.4000 mm	1.0000 mm	1.0000 mm	0.7000 mm	0.5000 mm	0.3500 mm
7	2.0000 mm	1.4000 mm	1.4000 mm	1.0000 mm	0.7000 mm	0.5000 mm
8	2.8000 mm	2.0000 mm	2.0000 mm	1.4000 mm	1.0000 mm	0.7000 mm
9	4.0000 mm	2.8000 mm	2.8000 mm	2.0000 mm	1.4000 mm	1.0000 mm
10	5.0000 mm	4.0000 mm	4.0000 mm	2.8000 mm	2.0000 mm	1.4000 mm
11	6.0000 mm	5.0000 mm	5.0000 mm	4.0000 mm	2.8000 mm	2.0000 mm
12	7.0000 mm	6.0000 mm	6.0000 mm	5.0000 mm	4.0000 mm	2.8000 mm
13	8.0000 mm	7.0000 mm	7.0000 mm	6.0000 mm	5.0000 mm	4.0000 mm
14	9.0000 mm	8.0000 mm	8.0000 mm	7.0000 mm	6.0000 mm	5.0000 mm
15	9.0000 mm	9.0000 mm	9.0000 mm	8.0000 mm	7.0000 mm	6.0000 mm
16	9.0000 mm	9.0000 mm	9.0000 mm	9.0000 mm	8.0000 mm	7.0000 mm

Add...

Delete

OK

Cancel

Apply

Help

Line Weights

Model Line Weights

Perspective Line Weights

Annotation Line Weights

Perspective model line weights control line widths for objects like walls and windows in perspective views.

There are 16 model line weights. Click on a cell to change line width.

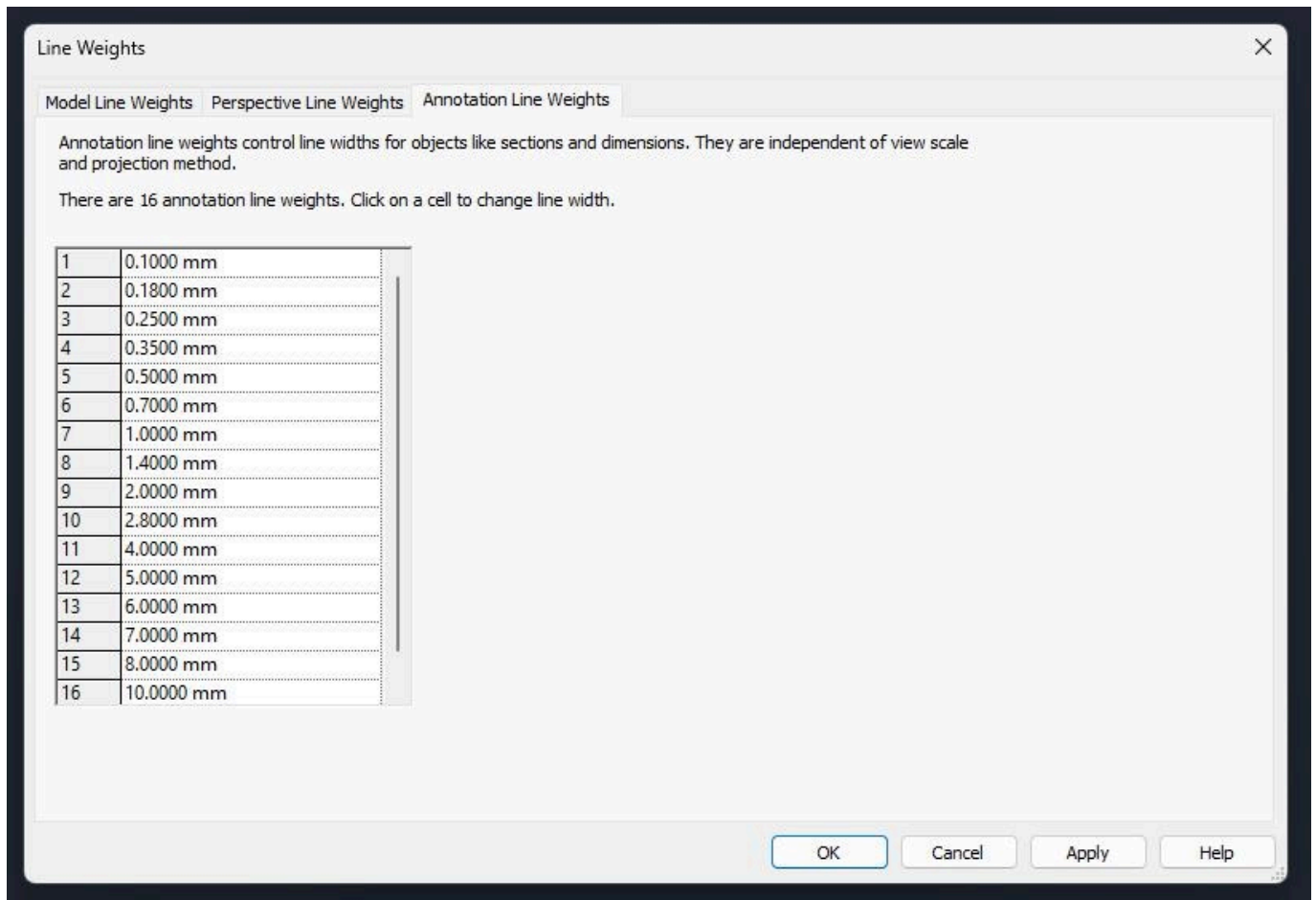
1	0.1000 mm
2	0.1800 mm
3	0.2500 mm
4	0.3500 mm
5	0.5000 mm
6	0.7000 mm
7	1.0000 mm
8	1.4000 mm
9	2.0000 mm
10	2.8000 mm
11	4.0000 mm
12	5.0000 mm
13	6.0000 mm
14	7.0000 mm
15	8.0000 mm
16	10.0000 mm

OK

Cancel

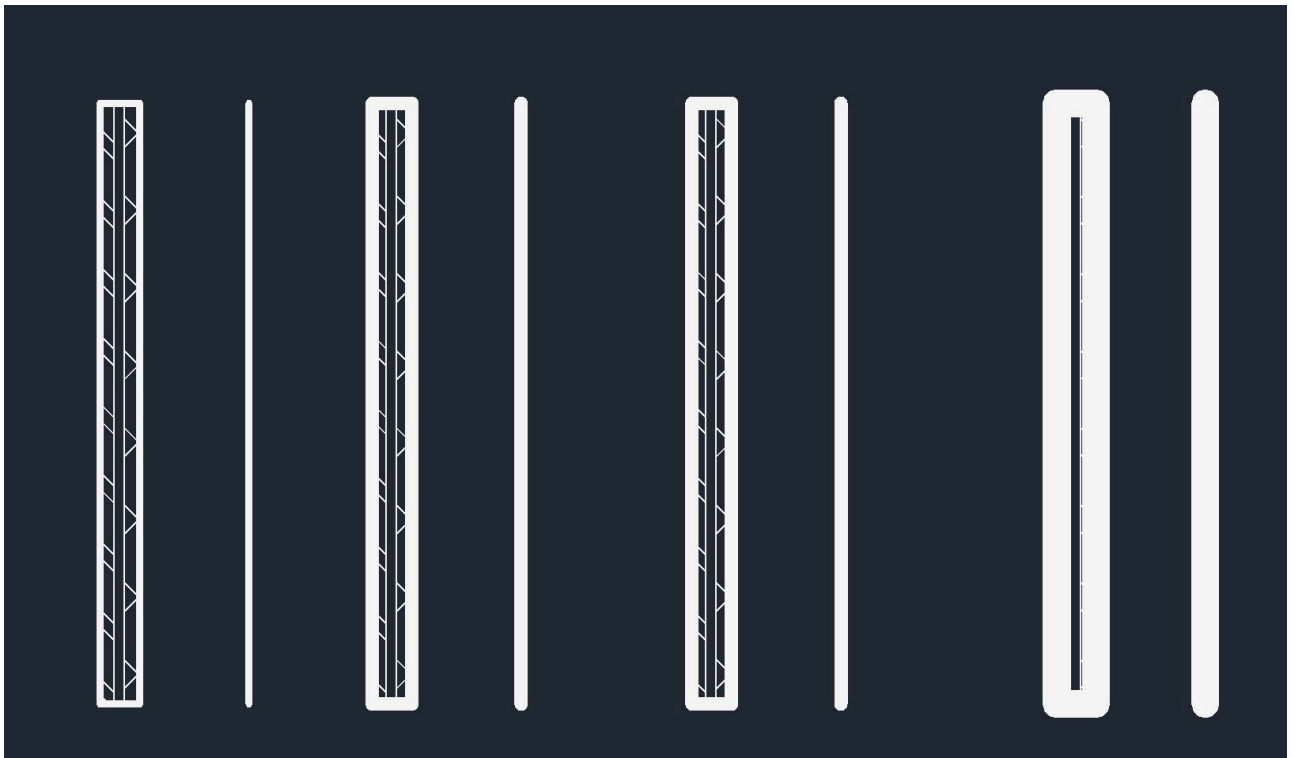
Apply

Help



Do you really want to change it? Problems and personal choice?

1. Different Setting in Linked Models (You will have to do it anyway as everyone is changing these!)



2. Keep it simple!

3. Changing Thicknesses in Scale is complicated so try to keep it simple! Default 1:100 everywhere is nice.

	1 : 100
1	0.1000 mm
2	0.1800 mm
3	0.2500 mm
4	0.3500 mm
5	0.5000 mm
6	0.7000 mm
7	1.0000 mm
8	1.4000 mm
9	2.0000 mm
10	2.8000 mm
11	4.0000 mm
12	5.0000 mm
13	6.0000 mm
14	7.0000 mm
15	8.0000 mm
16	9.0000 mm

4. Maybe 2 steps for drawings below 1:50 and above.

5. Make a printout for your team with your lines.

Object Styles

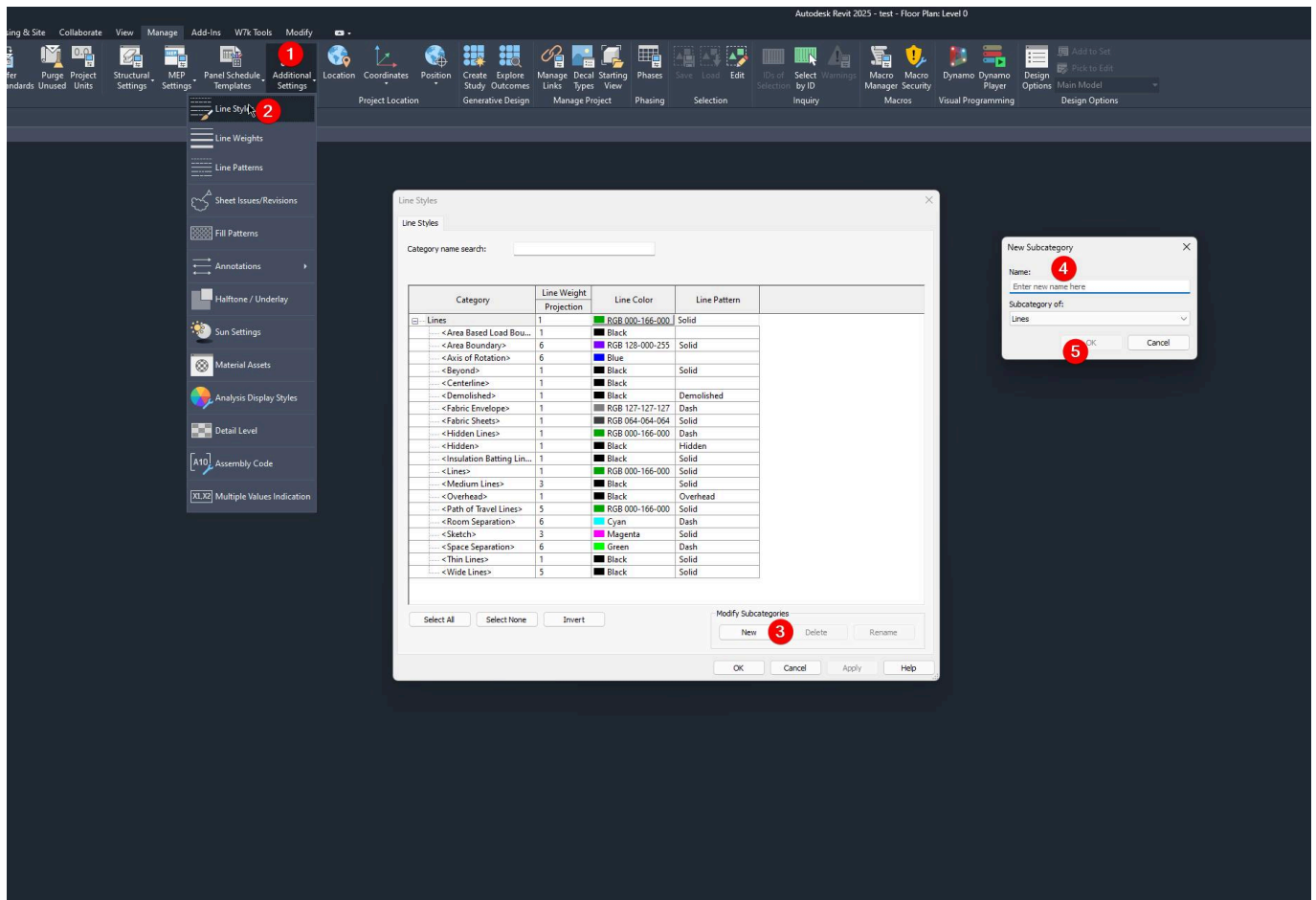
remember to change them especially after changing lines Thicknesses.

Understanding how it works

Line styles

Naming convention. Color vs Thicknesses vs Line Pattern!

Please stop creating line types with names which convey information!



How many lines? Depends on your settings.

Colours:

- Black
- Red
- Green
- Blue
- Grey
- Dark Grey
- Cyan
- Magenta

Line Patterns:

- Solid
- Dash 1.5 mm
- Dash 3.0 mm
- Dash Dot
- Dot

Good examples of names:

1_Black_Solid

4_Dash_Red

Solid_5_Black

Line patterns

Make it in Revit

Make sure the line is longer than 1/32" (about 0.78mm).

Importing from AutoCAD

Don't do it.

Do I need to change anything here?

AEC UK BIM protocol

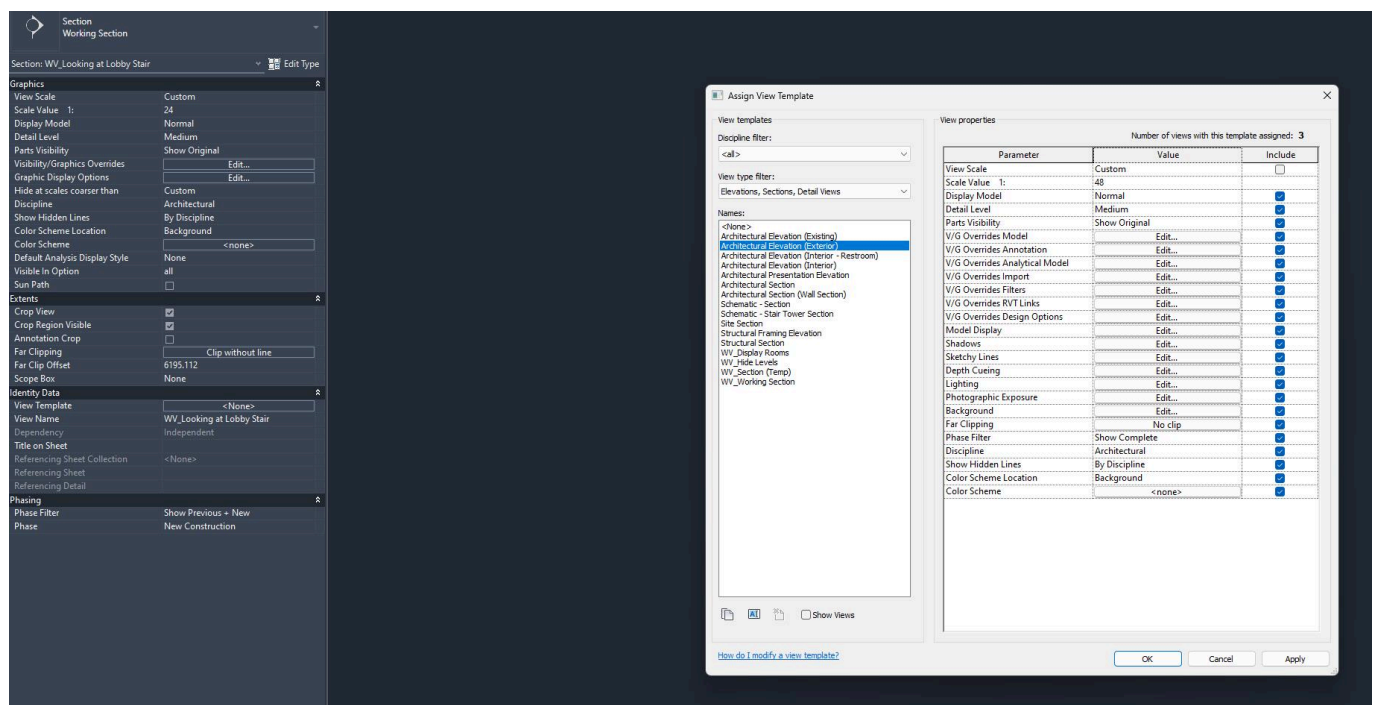
Worth checking: <https://aecuk.wordpress.com/documents/>

View Templates

What is a View template

View Template is a specific view saved in your file.

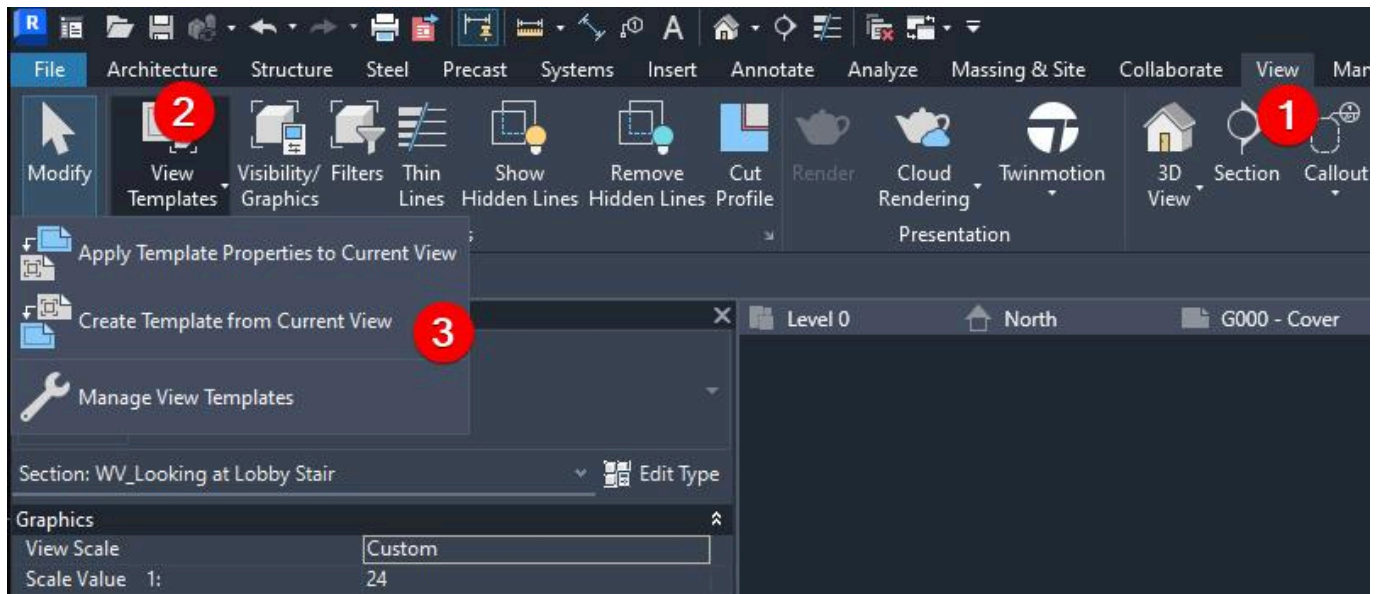
View Template has the same settings as View has!



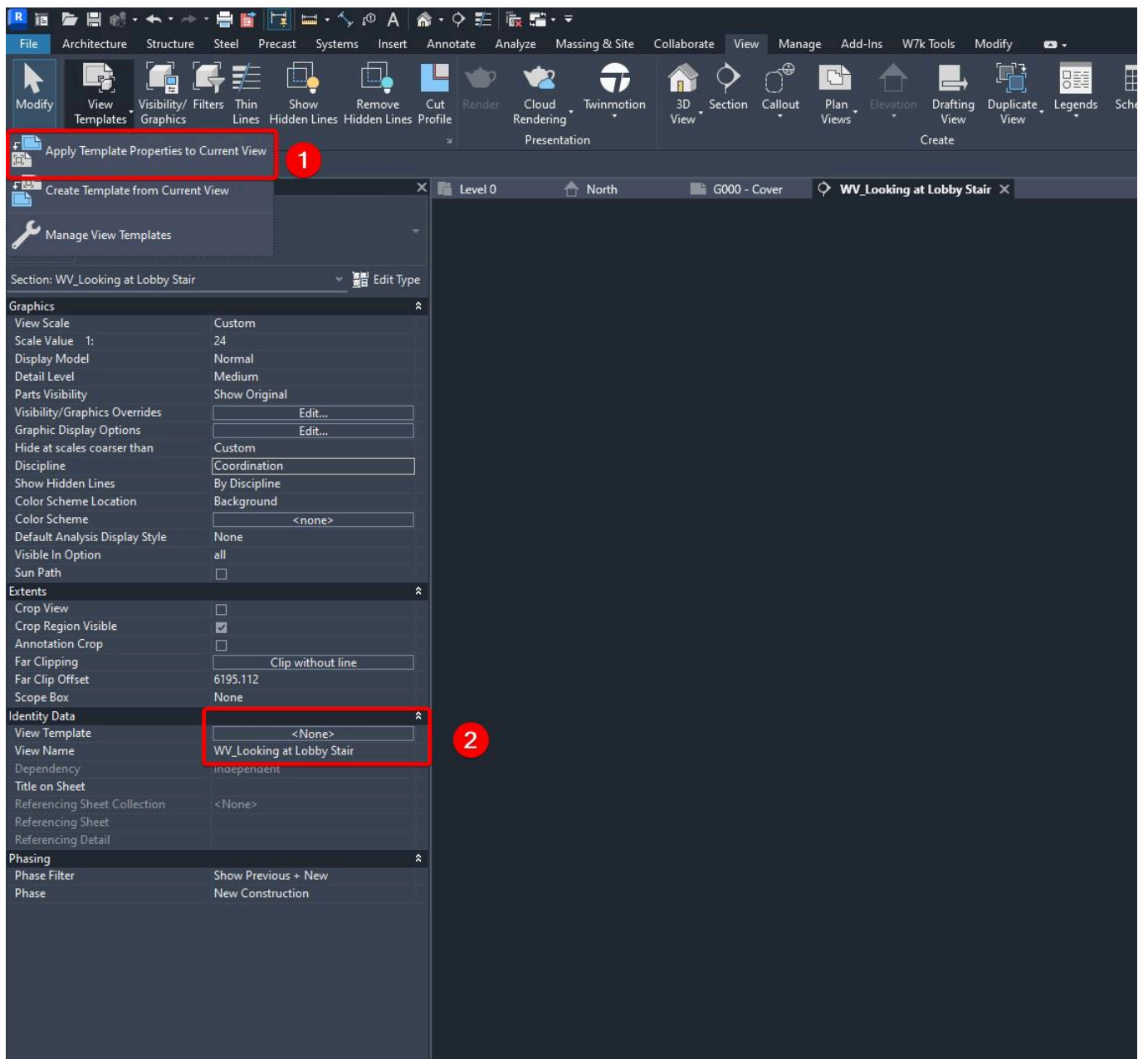
View Templates has type. It doesn't mean you can't use plan template for section.

Just make sure to later recreate a template as a new section template.

Creating view templates



Assigning view templates



1. I haven't seen anyone doing it this way 😊
2. Normal way of doing it.

Controlling view templates:

Template name convention - Figure something!

Good Examples:

- WIP Plans 1 200
- GA Sections 1 50 Detailed
- GA_Plans_100

To control disciplines you need to create a view with specific discipline.
Remember you can control these things globally with subcategories!

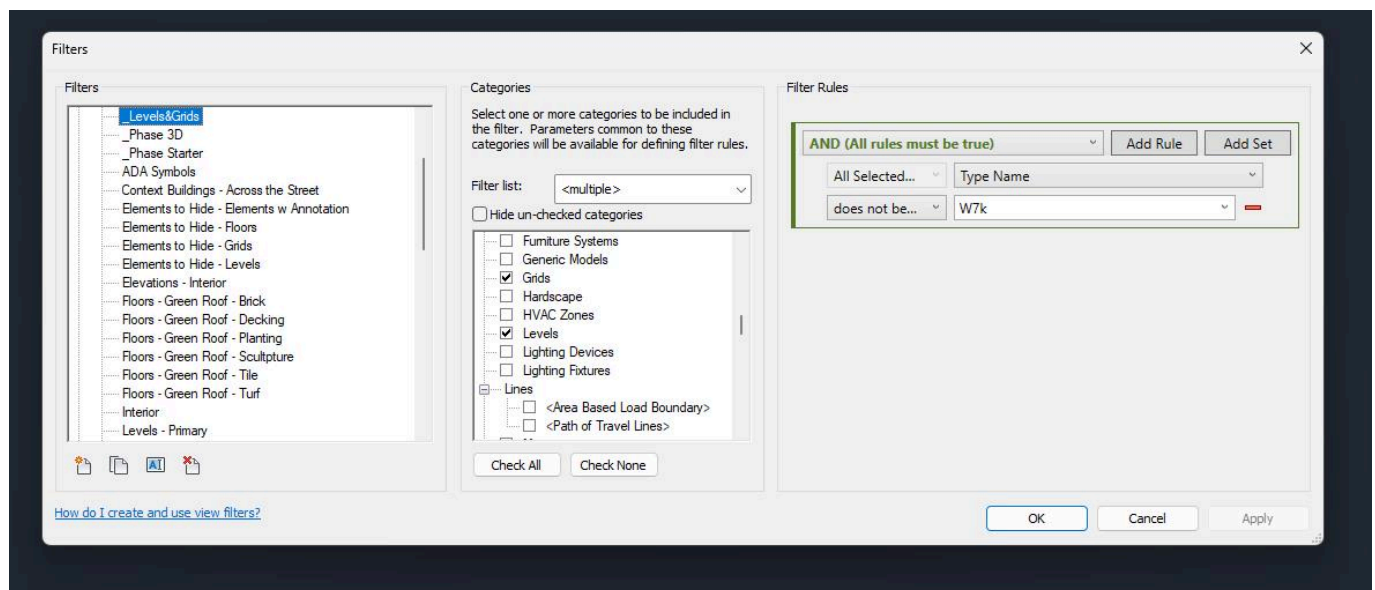
View Properties worth to unclick

Scale

View Range

Personal: Model Display

Filters



- Levels & Grids
- RC
- Hide views not of specific type
- Fire Rating (A)
- If you work with the same Architect, MEP or SE, create more filters!

Linked Revit Files

- File vs Instance

Better to use filters than to override too much.

Libraries

Families

Necessary:

- Title blocks
 - Sheets
 - Issue/Project Page

Nice to have:

- Materials
- Detail Components
- Components
- Doors (A)
- Windows (A)
- Curtain Walls (Mullions, Panels etc.)(A)

Depending on a workflow:

- Walls
- Floors
- Roofs
- Columns
- Stairs
- etc.

Typical details

System families

- Grids
- Levels
- Dimensions
- Spot Elevation
- Spot Coordinate
- Spot Slope
- Regions
- Text
- Tags
- Stair Path
- View Symbols (Elevations, Sections, callouts)

Dimensions

Tick Mark:

Units: Less precise

Regions

Import from CAD

* "acad.pat"

* Open new project import cad and copy it

Download from Internet

pyRevit

Code your pat files:

<https://help.autodesk.com/view/OARX/2025/ENU/?guid=GUID-A6F2E6FF-1717-44B6-A476-0CA817ADD77E>

Tags

Arrows:

Parameters:

View Symbols (Elevations, Sections, callouts)

Views

Preloading views

Schedules

Nice to have:

- Door Schedule (A)
- Window Schedule (A)

Sheets

Loaded sheets vs good sheet manual so people can create their own drawings

Preloaded sheets - How to do it?

Full set

MAKE A REVIT GUIDE!

MAKE A PROJECT GUIDE!