

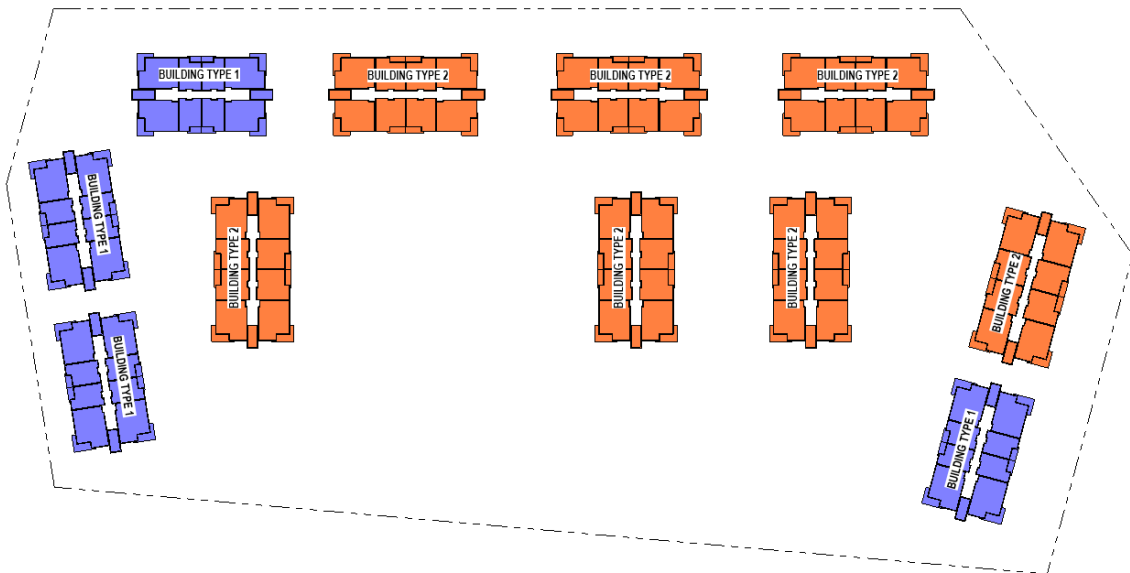


ORB REVIT GARDEN STYLE PROJECT SET-UP

GARDEN STYLE PROJECTS

Garden style projects consist of two to three story independent buildings. Typically these buildings are of type VA construction, will not require an elevator and each building can be present multiple times on the same site. [Refer to ORB University for Chapters 5 & 6.](#) Multiple buildings provide easy repetition and design consistency throughout the site while avoiding one-off conditions.

This workflow will be used whenever you have more than one building on site.





ORB REVIT GARDEN STYLE PROJECT SET-UP

Initial Project Set up

Site layout will be dependent on the Revit Survey file. Once this file is linked, located and pinned down in the documentation file we can proceed with each building type allocation. Typical ORB projects will use our **temporary structures families** to provide the preliminary site layout and unit information that will be provided to clients and allow us to modify and refine the site plan up to its final stage.

Garden style projects will have a different linking methodology due to the separation of units and buildings. Typical single building projects will have units linked in directly. Worksets and templates are already set up for this in the project template files.

Whether Garden style, Podium, Wrap or any other type of project, **each and every single file in the project must be referenced to the same Keynote File assigned to the project.** The Keynote File is always located in the “BIM Files” folder under the _Keynotes folder.

Keynote files begin from the **ORB Master Keynote List** in Excel and transferred to a notepad file. Based on the client, you will need to adjust the keynote text column for specific items.

A	B	C	D	E	F	G
KEYNOTE NUMBER	KEYNOTE TEXT	KEYNOTE PAREN	ALLIANCE	TRINSIC	TITAN	MILL CREEK
ORB	ORB KEYNOTES					
	100 SITE NOTES	ORB				
	1000 PARKING		100			
	1001 TYPICAL PARKING STALL, 8.5' x 11'		1000			
	1002 ACCESSIBLE PARKING STALL, MIN. 11' x 18'		1000			
	VAN ACCESSIBLE PARKING STALL, MIN 11' x 18'. PROVIDE MIN. 8'-2" VERTICAL					
	1003 CLEARANCE		1000			
	1004 ACCESSIBLE AISLE		1000			
	1005 ACCESSIBLE CURB RAMP		1000			
	1006 ACCESSIBLE PATH OF TRAVEL - 2% MAX CROSS SLOPE		1000			
	1007 ACCESSIBLE SIGNAGE PER MUNICIPALITY		1000			

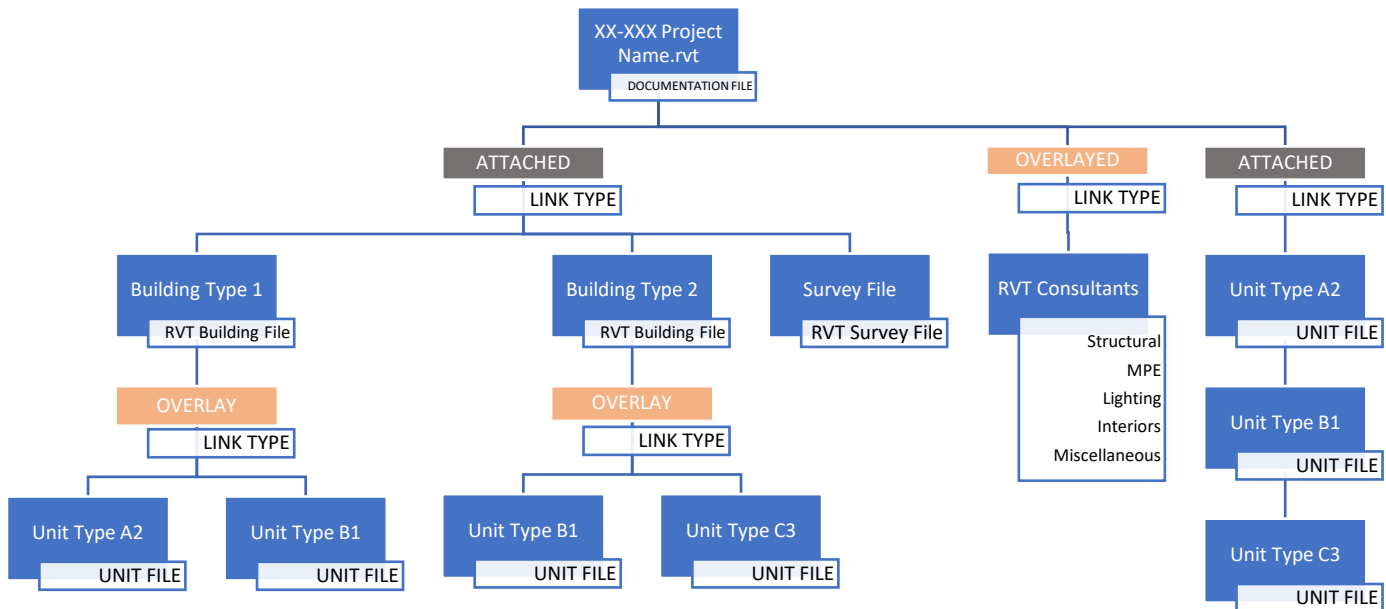


ORB REVIT GARDEN STYLE PROJECT SET-UP

The Documentation File

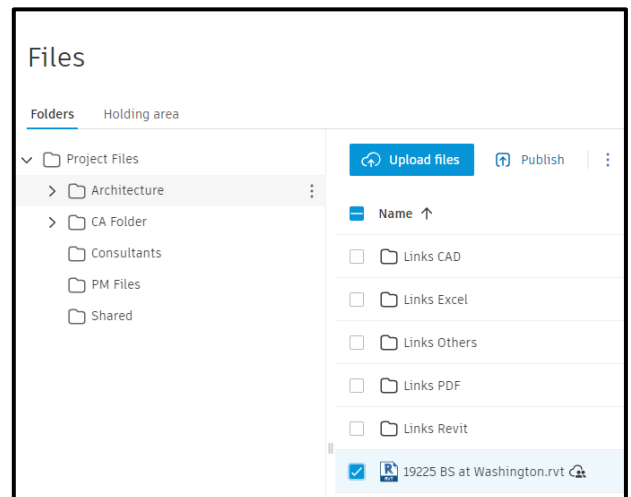
The Documentation file is the repository of all the project information. All of the project files will be linked into the Documentation File.

LINKING SCHEMA



The documentation file is placed in the Architecture folder in the BUILD platform. This is where the construction documents reside for the project.

The documentation file is where all the information for the project is referenced and memorialized. The bulk of the project information will be extracted here from the elements directly placed in the file, as well as the linked elements. Sheets will be printed from here.





ORB REVIT GARDEN STYLE PROJECT SET-UP

The typical documentation file will have the following:

1. All project files linked as attachments.
 - a. RVT Survey File
 - b. Building Type Files
 - c. Unit Type Files
 - d. CAD backgrounds
 - e. RVT Consultant files
2. **Architectural Site Plan consisting of all building types in the “Site Work” workset and the Survey RVT file.**
3. **Building and Unit Farm in the “Garden Building Farm” workset**
4. All construction document sheets, floor plans, RCPs, Roof plans, Sections, Details, Assembly sheets, etc.
5. Life safety plans (Overall & Enlarged) for each building and for the site, noting the building separation distance between each building shown on the life safety site plan.
6. Final annotation elements:
 - a. Keynotes
 - b. Enlarged plan callouts*
 - c. Building Section callouts*
 - d. Wall Section callouts*
 - e. Detail callouts
 - f. RVT Unit Tags, Unit wall tags & Unit Door tags

* Callouts match those in the building type files.

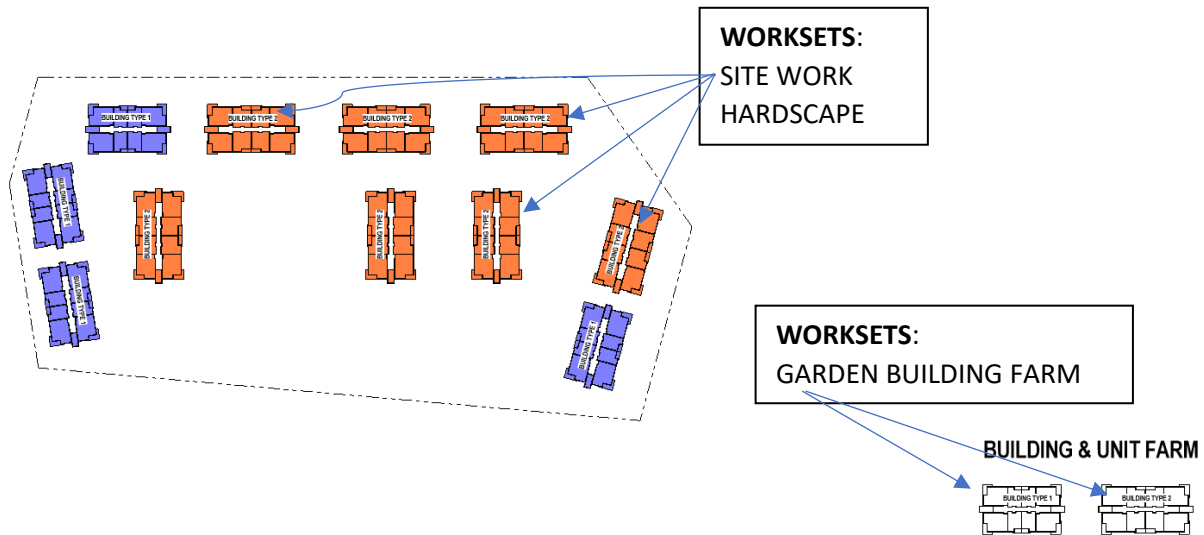


ORB REVIT GARDEN STYLE PROJECT SET-UP

Building / Unit Farm

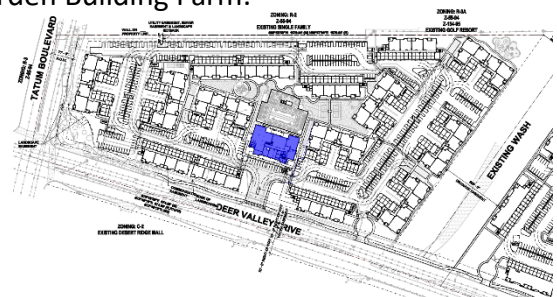
The building and unit farm takes place outside of the project where it will not show up in any site plan views.

Every building type must be presented in the unit farm with the corresponding units for that building.



Each building type must comply with the following:

1. Use the **“Garden Building Farm” Workset** for the building and unit farm.
2. All relevant units need to be placed inside the building shell and **grouped (per the building type name)**.
3. Provide a scope-box with the name of the building. The scope box must enclose the entire building and be labeled “BUILDING TYPE-XX”
4. **Provide a scope-box with the name of the typical unit “UNIT-XX”**
5. **Link instance name shall be named: Enlarged Building Type #**
6. All construction document floor plans, rcps, roof plans, sections, enlarged plans, etc. will be brought to the documentation file via linked views.
7. The link instance name for the units in the Garden Building Farm shall be: **Enlarged Unit XX**
8. Even if a building only appears once as it would be the case for the clubhouse, it still needs to have an instance copy in the Garden Building Farm.

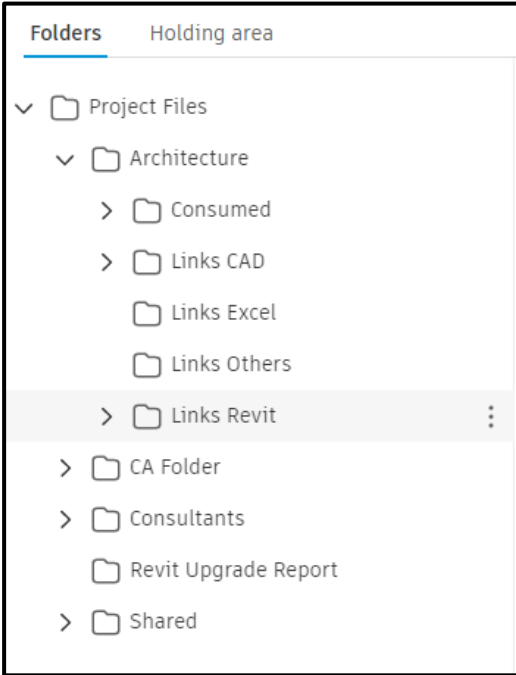




ORB REVIT GARDEN STYLE PROJECT SET-UP

Building Type Files

All building files will be in the Links Revit Folder



This is the same folder where the survey file is located for all projects.

Building type files need to follow the same naming convention as before:

x##### BLDG Type #.rvt

x(Project Number) BLDG Type (Type Number).rvt

Building type files will contain the shell of the building. While designing this shell, **unit types will be linked in only in the overlay option.**

Manage Links				
Revit IFC CAD Formats DWF Markups Point Clouds Topography PDF Images				
Link Name	Status	Reference Type	Positions Not Saved	Saved Path
22-217 Survey File.rvt	Loaded	Overlay	<input type="checkbox"/>	T:\Orb\ORB Job Files\22-217_KR_Camelback
19220_Unit A1_cqkRN4EV.rvt	Not Loaded	Overlay	<input type="checkbox"/>	C:\Users\cqk\Documents\19220_Unit A1_cqk

Linked units inside the Building Type file will remain overlaid throughout the length of the project, but **they are to serve only as reference** and to maintain coordination between the shell and the units themselves.



ORB REVIT GARDEN STYLE PROJECT SET-UP

Building Type Documentation:

1. Each building type file will be developed up to 95% CD level throughout the project.
2. Views shall be created inside the building file that will then be linked to the documentation file.

These files will have at minimum the following linked views:

a. Floor Plan Views (Overall & Enlarged)

- i. Gridlines (if applicable)
- ii. Dimensions
- iii. Assembly tags
- iv. Detail lines (center line style) for center line of demising wall between units
- v. Labeled reference planes that will coincide with Building Sections. Rename the reference plane to match the specific building section.
- vi. Reference lines to show where wall sections for the building will take place.
- vii. Rooms (where applicable), provide room tags
- viii. Door tags
- ix. Enlarged plan callouts
 1. Enlarged stair plans & sections
 2. Enlarged elevator plans & sections
 3. Enlarged storage areas

b. Reflected Ceiling Plan Views (Overall & Enlarged)

- i. Dimensions
- ii. Ceiling assembly tags
- iii. Height callouts for drop ceilings

c. Roof Plans (Overall & Enlarged)

- i. Dimensions
- ii. Parapet heights
- iii. Slope arrows

d. Exterior Elevations

- i. Dimensions (where applicable)
- ii. Material Tags

e. Building sections

- i. Dimensions
- ii. Assembly tags
- iii. Detail components if applicable

f. Wall Sections

- i. Dimensions
- ii. Assembly tags
- iii. Detail components

g. Enlarged Plans (Stairs, Elevators, Storage, etc)

- i. Dimensions,

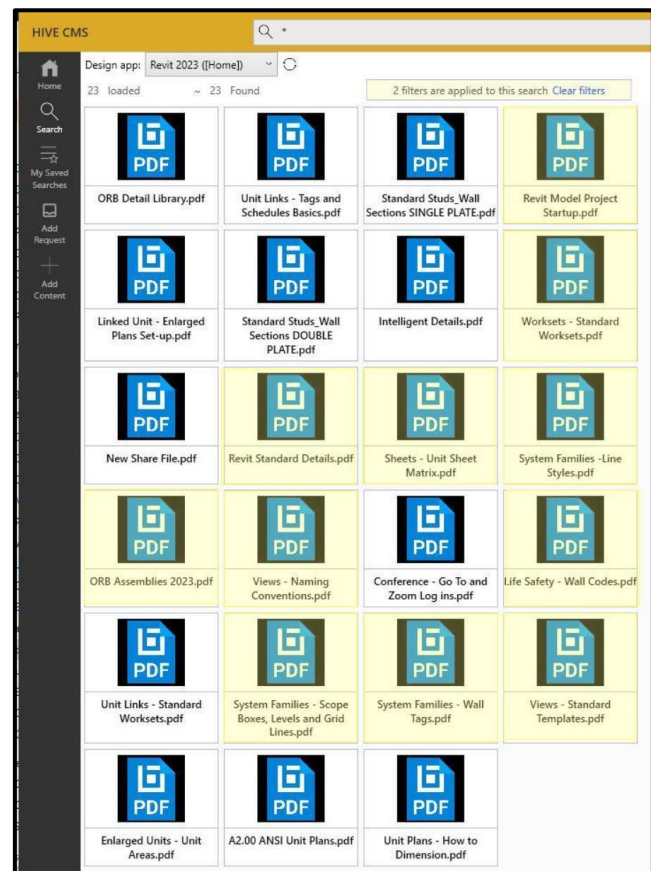


ORB REVIT GARDEN STYLE PROJECT SET-UP

- ii. Assembly tags
- iii. Clear floor spaces (where required)
- iv. Room/door tags
- h. Life Safety Plans (Overall & Enlarged)**
 - i. Paths of travel with tags (distances)
 - ii. Relevant code comments
 - iii. Accessible entrances / exits
 - iv. Assembly tags
 - v. Door Tags
 - vi. View Filters assigned by templates
 - vii. Area tags
 - viii. Emergency Lighting (coordinated with electrical & fire protection)
- i. All plans created in the building type file must be properly named. This will be essential when linking these views in the documentation file.
- j. There shall be NO KEYNOTES PLACED IN THE BUILDING FILE**
Do not tag any UNIT elements in this file – they will not transfer to the Documentation File.

Use the ORB Dynamo scripts to create all the different floor plans required for the specific building file.

For further information on the requirements for each view, see the ORB manuals already established in HIVE under the “ORB Standards and Manuals” library.

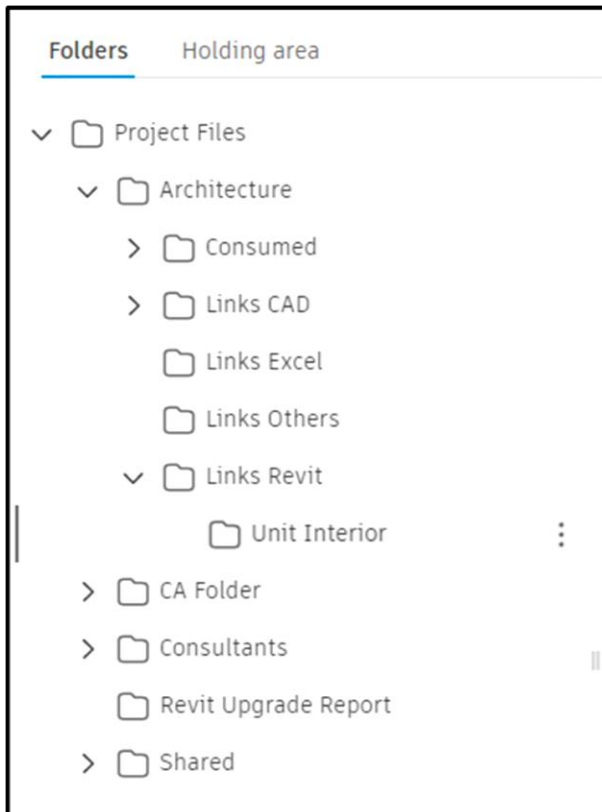




ORB REVIT GARDEN STYLE PROJECT SET-UP

Unit Type Files

Unit type files are located inside the Unit Interior folder.



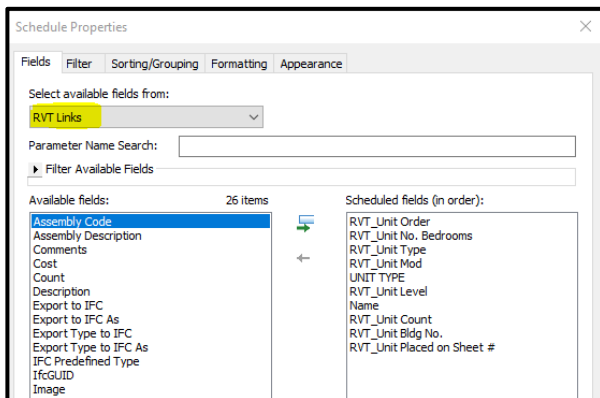
Unit type files need to follow the same naming convention as before:

Unit %%.rvt

(Project Number) Unit (Type & Number).rvt

Unit Type files will always be independent. No files are to be linked inside of a unit type file.

The relevant units will be linked to their designated building type as overlays and all units will also be **linked as attachments to the documentation file to create the unit farm**. It is important to follow these guidelines so that pre-set schedules, view templates and worksets in the documentation file function correctly.



All current Revit schedules can be filtered and sorted out per building type by using the RVT Links parameters. Confirm with your project manager to see which parameters need to be shown on your tables.



ORB REVIT GARDEN STYLE PROJECT SET-UP

Unit Type Documentation:

1. Each unit type file will be developed up to 95% CD level throughout the project.
2. Views shall be created inside the unit file that will then be linked to the documentation file.
These files will have the following linked views:
 - a. **FLOOR PLAN – LINKED**
 - b. **FLOOR PLAN ANSI – LINKED**
 - c. **FLOOR PLAN DD – LINKED**
 - d. **INTERIOR ELEVATIONS (as needed)**
3. **NO keynotes placed in any of the previous views**
4. **Link to the project Keynote File located in the project folder.**

For further information on the requirements for each view, see the ORB manuals already established in HIVE.

The screenshot displays the HIVE CMS interface. The top navigation bar includes the 'HIVE CMS' logo, a search bar with the text 'unit', and a 'Design app: Revit 2023 ([Home])' dropdown. Below the navigation bar, a sidebar on the left contains icons for Home, Search, My Saved Searches, Add Request, and Add Content. The main content area shows a list of 7 PDF documents, each with a blue PDF icon and a star rating. The documents listed are:

- A2.00 ANSI Unit Plans.pdf (5 stars, Libraries: ORB Standards and Manuals, Tags: TUTORIAL, UNIT, Reviews: 0, Loads: 23, Downloads: 0)
- Enlarged Units - Unit Areas.pdf (5 stars, Libraries: ORB Standards and Manuals, Tags: --, Reviews: 0, Loads: 4, Downloads: 0)
- Unit Links - Standard Worksets.pdf (5 stars, Libraries: ORB Standards and Manuals, Tags: --, Reviews: 0, Loads: 9, Downloads: 0)
- Sheets - Unit Sheet Matrix.pdf (5 stars, Libraries: ORB Standards and Manuals, Tags: --, Reviews: 0, Loads: 21, Downloads: 0)
- Unit Plans - How to Dimension.pdf (5 stars, Libraries: ORB Standards and Manuals, Tags: TUTORIAL, Reviews: 0, Loads: 9, Downloads: 0)
- Unit Links - Tags and Schedules Basics.pdf (5 stars, Libraries: ORB Standards and Manuals, Tags: --, Reviews: 0, Loads: 39, Downloads: 0)
- Linked Unit - Enlarged Plans Set-up.pdf (5 stars, Libraries: ORB Standards and Manuals, Tags: --, Reviews: 0, Loads: 18, Downloads: 0)



ORB REVIT GARDEN STYLE PROJECT SET-UP

Best Practices:

1. Use the ORB Dynamo scripts to create the required floor plans for each building as well as the .
2. Provide scope boxes for each building type with the correct nomenclature.
3. Provide scope boxes for at least one of each unit type.
4. Confer with your project manager and the project BIM manager to work out any particular characteristics or deviations in your project before the next document stage.