

Support Article:

Starting a Project using ARChetype

Revised: Nov 2022



This document is available to each Customer, as per the License Agreement with QARC Systems Pty Ltd. Errors and omissions excepted.

QARC Systems Pty Ltd makes every reasonable effort to ensure the accuracy and validity of the information provided in this document and does not make any representations, warranties or guarantees express or implied, as to the accuracy or completeness of the document. Neither OARC Systems Pty Ltd nor any of its directors, officers, employees or agents shall be liable in contract. tort or in any other manner whatsoever to any person for any loss, damage, injury, liability, cost or expense of any nature, including without limitation incidental, special, direct or consequential damages arising out of or in connection with the use of this document. The intent of this document is to share ideas and knowledge which QARC Systems Pty Ltd and others have come upon to assist you in using Revit. They are not intended to be instructions or

content related to the QARC system and any reference to other products is not intended to be an endorsement of that product

This document is proprietary to QARC Systems Pty Ltd. No part of the document shall be used, reproduced, translated, converted, adapted, stored in a retrieval system, communicated or transmitted by any means, for any commercial purpose, including without limitation, sale, resale, license, rental or lease, without the prior express written consent of QARC Systems Pty Ltd.



This is our suggested procedure for starting a new project using **QARC** and the **ARChetype** template.

Click on the **QARC** tab in your ribbon and select **New**:

R 🕞 🛛	- A ·	r) • 🖨		* 'K*, lO	A 🔂 • 🔅		<mark>}</mark> ;	7			Autodes	k Revit 2019	9 - M19 - 46	573 Ash &	Belinda Baldeı
File A	Architecture St	tructure	Steel	Systems	Insert Ann	otate	Analyze	Massing & S	ite C	Collaborate	View	Manage	Add-Ins	QARC	Modify
Ø	Салс	6	6		GAUX	6	q		6	6	6	6	(
Manage	Webpage Email	l Support	Store	Browser A	uxiliary Content	Log In	Platform I	Management	New	Companion	Checklis	ts Tutorials	Tips & Tri	cks	
Licensing	Sup	port		C	ontent		Administr	ation			Archet	type			

This initiates a process of bringing the ARChetype to your screen. Firstly though, the QARC plug-in needs to know a name for your project file and where to put it.

R Save As					×
\leftarrow \rightarrow \checkmark \uparrow \blacklozenge > This PC > Downloads		~	ې 5	Search Downloads	
Organize 🔻 New folder					- ?
Quick access Desktop Downloads	Date modified	Type your search.	Size		
File name: NAME YOUR PROJECT FILE Save as type: Revit Project Files (*.rvt)					~
∧ Hide Folders				Save C	ancel

Fill in the *File name:* as you need, and make sure the folder is where you want the project file.

When the ARChetype comes to screen, there is a Starting drafting view, which contains QUICK START instructions. Follow those quick start directions, which are expanded below:

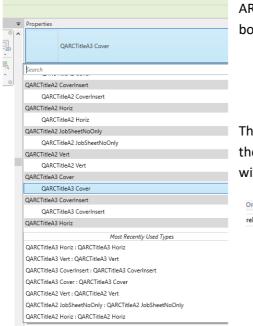
QUICK START

- a. As part of the "New" process you now have a fresh project file.
- Ensure your save name is correct.
- c. Suggested name JobNo-Client-ProjectStatus-Rev.rvt
- d. Insert Your Standards: Titleblocks, Text (if you have it) etc.
- e. Remove/Add levels, adjust AHD levels, in any Elevation or Section.
- f. Move Elevation/Section crop regions to suit levels.
- g. Ensure building is suiting Project North.
- h. Consider True North.
- i. Delete Dummy Building, Start Modelling.



Titleblocks

Drag and drop your Titleblocks into the project – they are named the same as the template Titleblocks so that Revit overwrites them. We provide your Titleblocks when you first join QARC.



ARChetype Project Titleblock names, as displayed in the Properties box.

These are example Titleblocks in a user's directory. Note again, they are identical which means they are overwritten in your project with your Titleblocks.

	Revit Masters > LD ARC Titleblo		
^ Name	Date modified	Туре	Size
QARCTitleA3 Cover	11/09/2018 10:49	Autodesk Revit Fa	284 KB
QARCTitleA3 CoverInsert	11/09/2018 10:57	Autodesk Revit Fa	316 KB
QARCTitleA3 Horiz	11/09/2018 10:57	Autodesk Revit Fa	940 KB
QARCTitleA3 JobSheetNo <mark>O</mark> nly	11/09/2018 10:58	Autodesk Revit Fa	252 KB
QARCTitleA3 Vert	11/09/2018 10:59	Autodesk Revit Fa	932 KB

The standard dialogue box for overwriting families appears. Titleblocks are families.

Family Already Exists	×
You are trying to load the family QARCTitleA3 which already exists in this project. What do y do?	
ightarrow Overwrite the existing version	
→ Overwrite the existing version and its par values	ameter
Do this for all loading families	Cancel
Click here to learn more	

Click Do this for all loading families.

Choose either of the Overwrite options, but we suggest using the second one so everything is covered.

Now your Titleblocks are loaded.

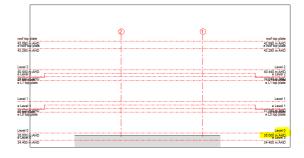




Move Site Vertically

Go to Elevations and choose an existing elevation. Highlight everything (including the grids and crop region) and move up to required AHD. The ARChetype is nominally at 10.0 AHD. So, if AHD is 35000 above sea level, move up 25000:

	2	1	
f top plate			roof top pla
SPR of ALLA			17.890 m Ak e root sop pl 17.290 m Ak
290 m AHD			17.290 m AF
el 2			Leve
HO AHD			15.440 m Ak
			14 641/0 00
Selected U	1	1	14,514,59,50 e L1 top piz
		1	
rel 1			Leve
evel)			e Leve
0 top plate			e LO top pla
vel 0			Leve
000 to AHD			10.000 mA
evel v 00 m/AHD			9.400 m Ab



Do this for all exist and new elevations and sections.

Cancel		
Repeat [New]		
Recent Commands	>	
Hide in View	>	
Override Graphics in View	>	
Create Similar		
Edit Family		
elect Previous		
elect All Instances	>	Visible in View
Delete		In Entire Project
Find Referring Views		
Zoom In Region		
Zoom Out (2x)		
Zoom To Fit		

HOT TIP

Use Revit's *Select All Instances* to do this. The beauty of this method is that the entire file is ready to go, in one step. After highlighting the items, right click on anything, choose *Select All Instances* and *In Entire Project*, and then move the levels, grids, crop regions.

Set Site Location

	Weather 5	ite				
Define L	ocation by:					
Interne	t Mapping Se	rvice		~		
60630	er Stations: 17 (0.00 kilon 19 (9.01 kilon		^	ldress or di	ag to m	Ve it.
	0 /10 71 1414	metres away)		b Binás	h. Mine	soft

It can help if you set your location. Manage > Location

Property Lines

Ŕ



We recommend doing your property lines, early on, using the distances and bearings table:

It can be a good idea to wait for survey files from your surveyor and use that. Have a look at our other Tips documents.





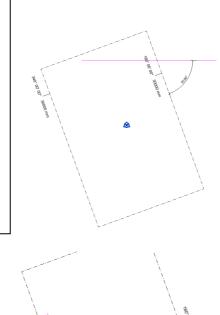
True North

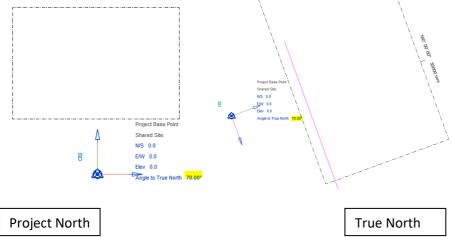
It is always sensible to adjust True North as soon as you begin a project. Things like shadow studies are immediately useful.

In Site True North, rotate your project so that True North location is retained but project sits as required on sheet.

Example

If your project's north sits at 70 deg to how you would like your project to be displayed, go to Site Project North and click on the Project Base Point (blue circle and triangle) and make the angle to true north 70. Your project north will now be parallel to page as required for documentation, but your True North will be shown as it should with true north up the page.





Ensure you now change all your North Points in the Titleblocks to reflect this change – Site has been rotated 70 deg so Northpoint is to be rotated 70 deg as well:

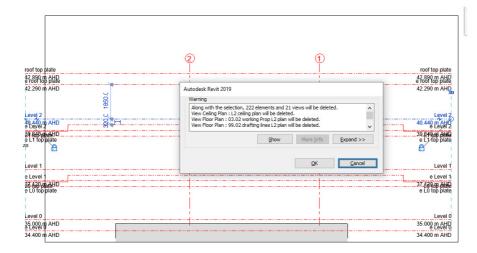


Starting a Project using ARChetype

	Cancel Repeat [Delete] Recent Commands	NCTICE - HE FOR THE		
	Flip Hand	Artibulen and tead in init with tead technic colors have		
4 • 9 + 1	Flip Facing Flip Work Plane Hide in View	Instance for Concess concess Concession Concession Instance for Concession Concession Instance for Concession Instance	QARCTitleA3 Horiz	
	Override Graphics in View	D prestant light ⊕ sparse collegalight and springs. ∰ settiment states and springs. ∰ before	Title Blocks (1)	✓ ☐ Edit Typ
	Create Similar	to be formed and a product of the second of	Graphics	*
= 9 0 1	Edit Family	Detr GRU-mater	NorthPointRotation	70.00*
	Select Previous	GND-single COO-page an (MARKer we)	MagneticFromTrueNorth	11.00*
LLO lighting L0 RCP	Select All Instances	Visible in View	NorthPoint MultiArrows	
LLD lighting LD RCP	Delete	In Entire Project	NorthPoint MultiLines	
1014		P1040	NorthPoint SingleArrow Light	
nalion	Find Referring Views	and the second s	NorthPoint SingleArrow Bold	
and the	Zoom In Region	al tens	NorthPoint Outline	
	Zoom Out (2x)	and the second second second	NorthPoint Classic	
• * * * * * * * * * * * * * * * * * * *	Zoom To Fit	inne inne ngayan - milay 📱 mian arydin	Scale	As indicated
		naptyw-bdfend 8 or orong nam	Identity Data	*
a∯ø ² 2 2 1	Pan Active View	ending loans	Sheet Name	Locality Plans
e	Previous Pan/Zoom	nim palén diamavé ekelyingai.	Sheet Number	002GS
(EL0) electrical L0	Next Pan/Zoom	ter - entratives as 1700 prover finalized floor and Bres and success as 2000 beneficiaries filter. Be placed server of score, with sufficient suggest Training.	Date/Time Stamp Sheet Issue Date	01.01.12
Contraction of the Contraction o	Browsers	OT FOR CONSTRUCTION	Drawn By	Dwn
in December 20	 Properties 		Checked By	Chk
			Designed By	Des
C MAnuschen und			Approved By	App
-	and Select A	II		
ight Click on Titleblock hstances	and Select A	II	Change rota	tion to 70deg
-	ne 1 2			tion to 70deg ying the Northpoint r

There are more Tips on this topic. Including using Rotate True North, either with data or graphically.

Remove extraneous Levels



Then delete levels depending on how many levels are required for building. Do not delete **Level 0** or **roof top plate** levels as these define various views such as roof lines. As you delete levels you will be prompted about what you are going to delete from project:

Go through the list and decide if you will need these views for your project. If you are concerned about deleting views, you can choose to simply hide the levels, but you will have to do this in each and every view in which they appear (a cumbersome and time-consuming practice).



Sheet Issue

The ARChetype uses a Sheet Issue field within the Titleblock to filter and issue sheet sets. For all sheets to be used at this stage of the project, ensure the Sheet Issue is a unique identifier. EG: If we are doing Sketch Design, make sure all the required sheets show SK01:

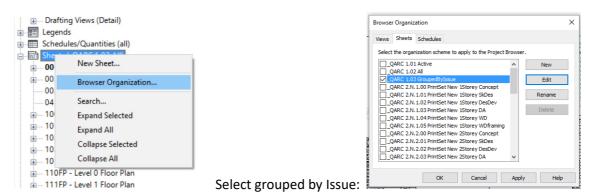
Approved By	Арр
Designed By	Des
Checked By	Chk
Drawn By	Dwn
Sheet Number	001GF
Sheet Name	Cover - Project
Sheet Issue Date	01.01.12
Sheet Issue	SK01
Sheet Name Extra	Cover
Appears In Sheet List	
Revisions on Sheet	Edit

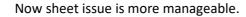
Another Tip

If you highlight the required sheets in the Project Browser, you can globally change Sheet Issue. This is also true for all other global fields in sheets, like Drawn By.

Group Sheets

Right click on Sheets Tab in Project Browser - Select Browser organisation:





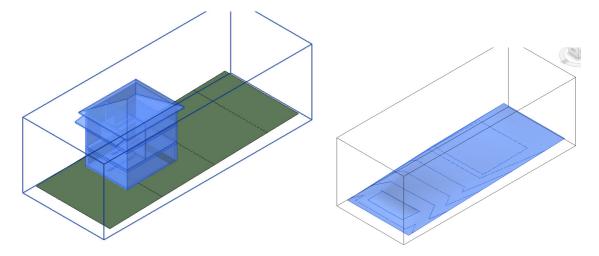
Egends
Schedules/Quantities (all)
Sheets (_QARC 1.03 GroupedBylssue)
····· ???
E-SK01
• 001GF - Cover - Project
102SP - Site Plan 1-200
110FP - Level 0 Floor Plan
111FP - Level 1 Floor Plan
I31RP - Roof Plan
172AP - Area Plans Overall
201EL - Elevations 1 of 2
202EL - Elevations 2 of 2
301ST - Sections Cross
321ST - Sections Longitudinal
322ST - Sections Longitudinal
411PD - Axonometric NE
412PD - Axonometric NW
413PD - Axonometric SE
414PD - Axonometric SW
431PD - External Perspectives
433PD - Internal Perspectives



Remove Dummy Building

Go to 3D views and delete dummy buildings: 3D Existing and 3D New+Exist.

Note: some users keep the dummy building to begin space planning. They push the walls about to get an idea initially of what might happen and show clients.



Delete new toposurface as well. Leave existing toposurface for reference if you want.

Start Modelling

At this point you are ready to begin modelling.