

Affinity for Revit facilitates the process of creating a schematic design from a program, then loading that directly into Revit for further development of that design.

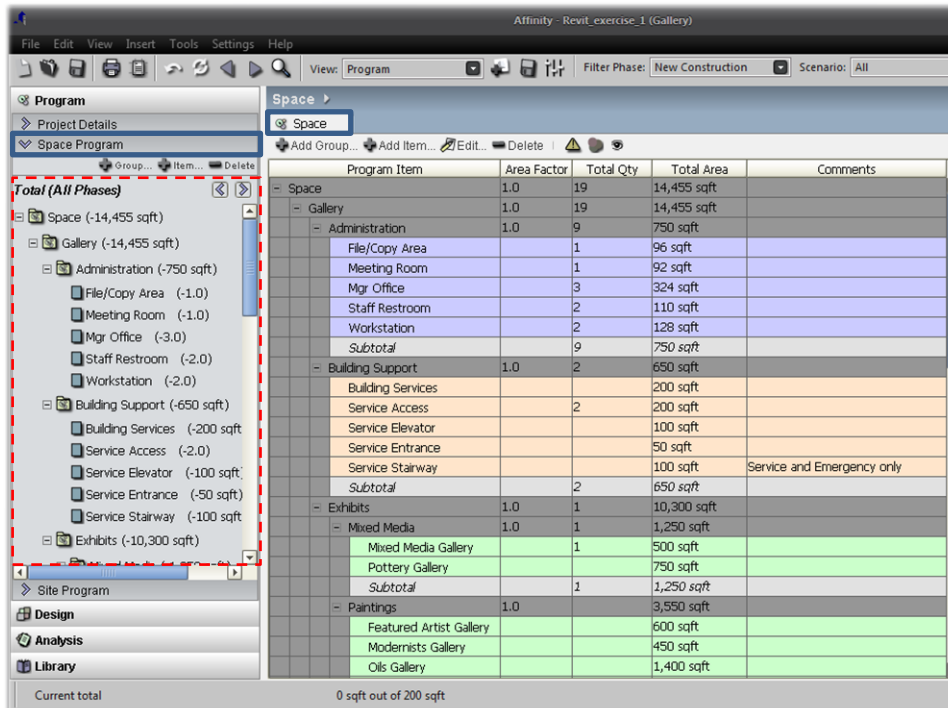
Typically, schematic design of projects is done in a program that is intended mainly for graphics. These programs do not allow that work to be transferred for use in a production program. It also does not maintain continuous checks against your required program. This Use Case describes the process of creating a schematic design in Affinity from a program then loading that design directly into Revit for development. This not only ensures that time and effort spent in the early phase of a project isn't discarded, but it also maintains a link between the program and the documentation as the project progresses.

1. Creating an Affinity Design

Affinity easily allows the user to create a schematic design by dragging program spaces directly into a floor plan. All the program space properties, components and requirements are associated with the spaces that are used when creating the design. There are multiple drawing tools and options that can be used to create the proper design.

A. OPEN & SETUP

Affinity Program

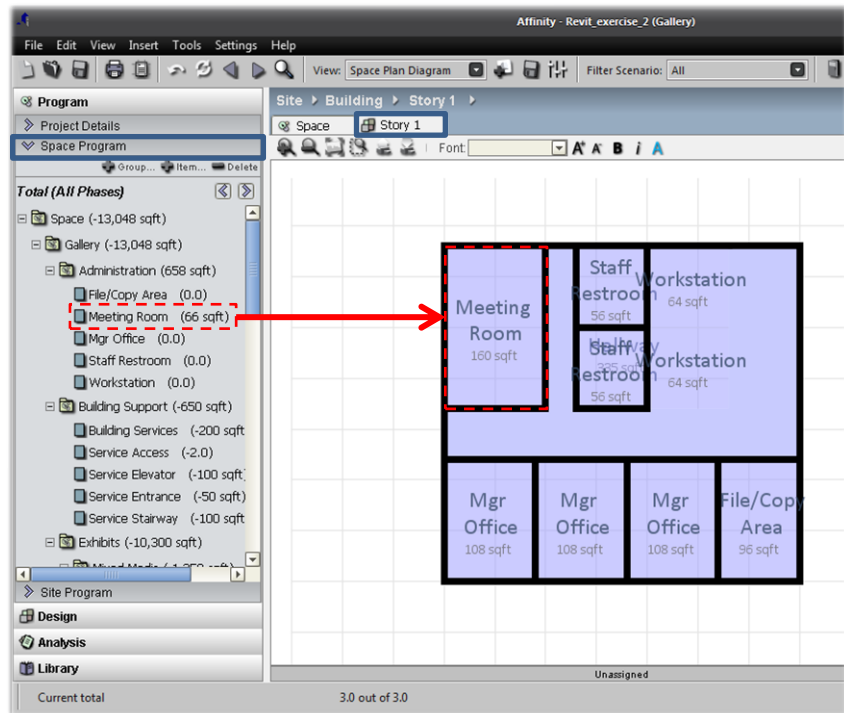


- Once a Program is created or imported, a list and count of all of your required Program spaces will show up in the Navigation bar under the **Space Program** tab.

B. DRAG & DROP

Affinity Design

- A Design can quickly be created by selecting spaces from your Program Space tree and dragging them onto a “Story” plan.
- Spaces can be easily aligned, resized, rotated, or modified to fulfill design needs.



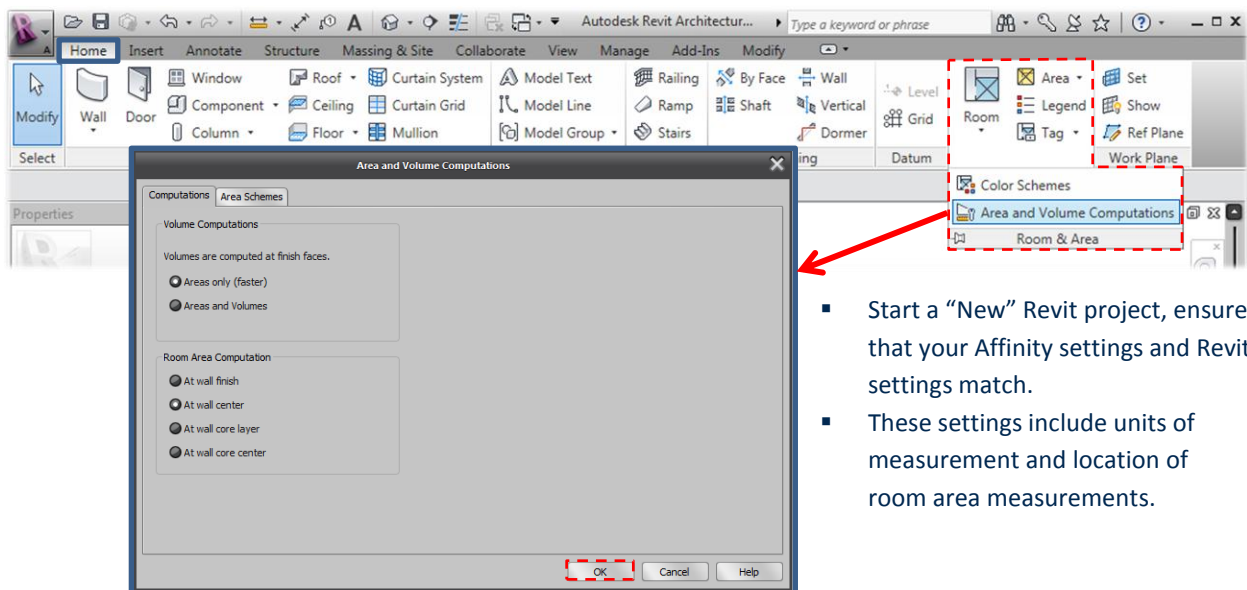
C. DESIGN OPTIONS

Spaces can also be customized with or without walls, grouped and/or merged with each other. There is also the option of creating multiple scenarios within the single file.

2. Loading Affinity Design into Revit

Affinity provides an easy-to-use plug-in for Revit. Through the loading process, a Design can simply be transferred directly into Revit for further design and development. Affinity allows all of the program information to be linked with the Revit model to ensure that this information and program requirements resides with the model and is not lost through the duration of the project.

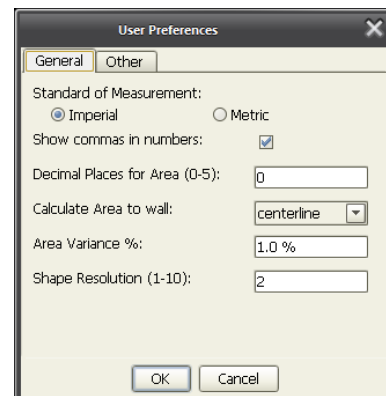
A. OPEN & SETUP



- Start a “New” Revit project, ensure that your Affinity settings and Revit settings match.
- These settings include units of measurement and location of room area measurements.

Revit Settings

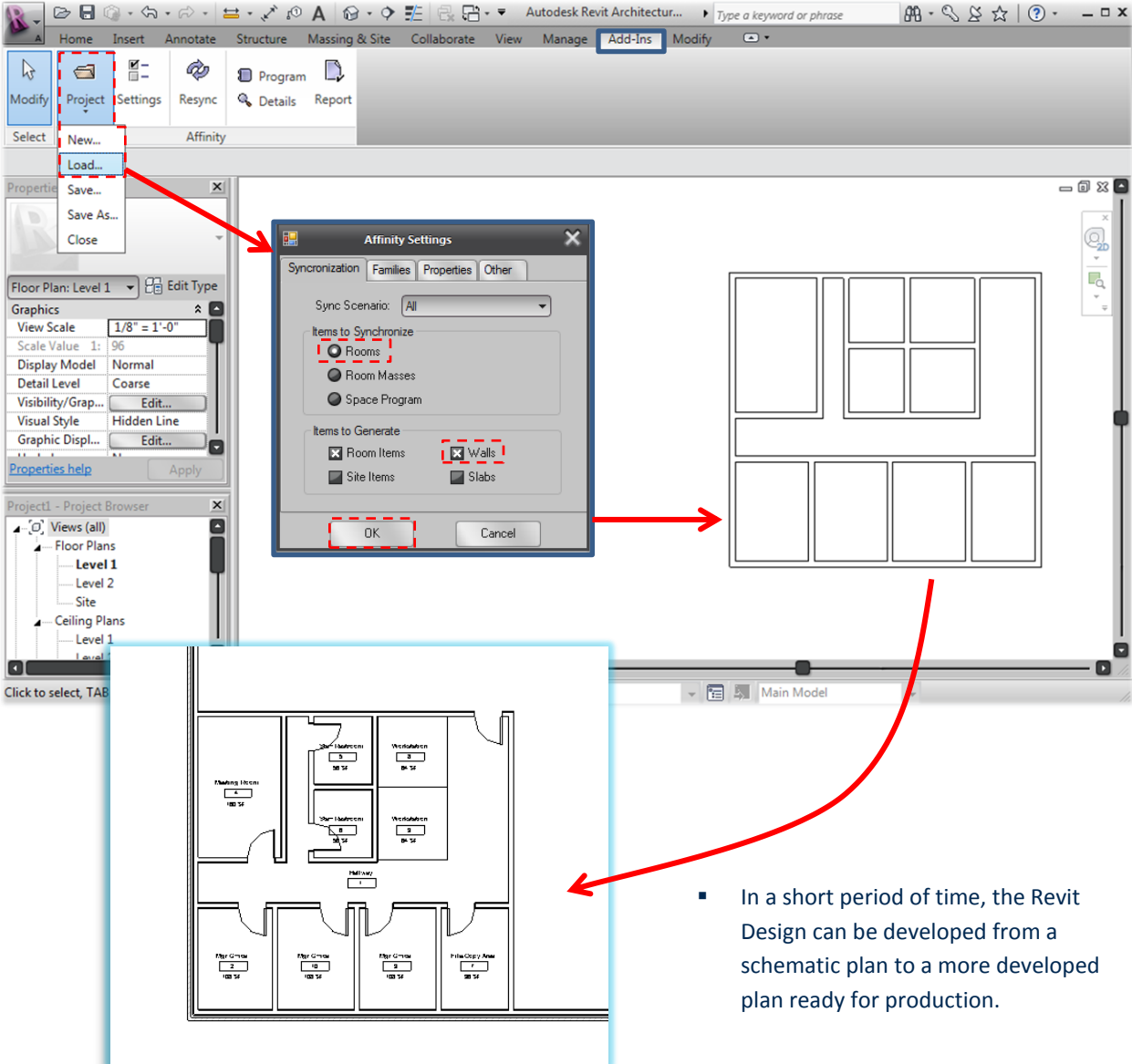
Affinity Settings



B. LOAD & DEVELOP

The Affinity Design is loaded into Revit with one simple step.

Revit Design

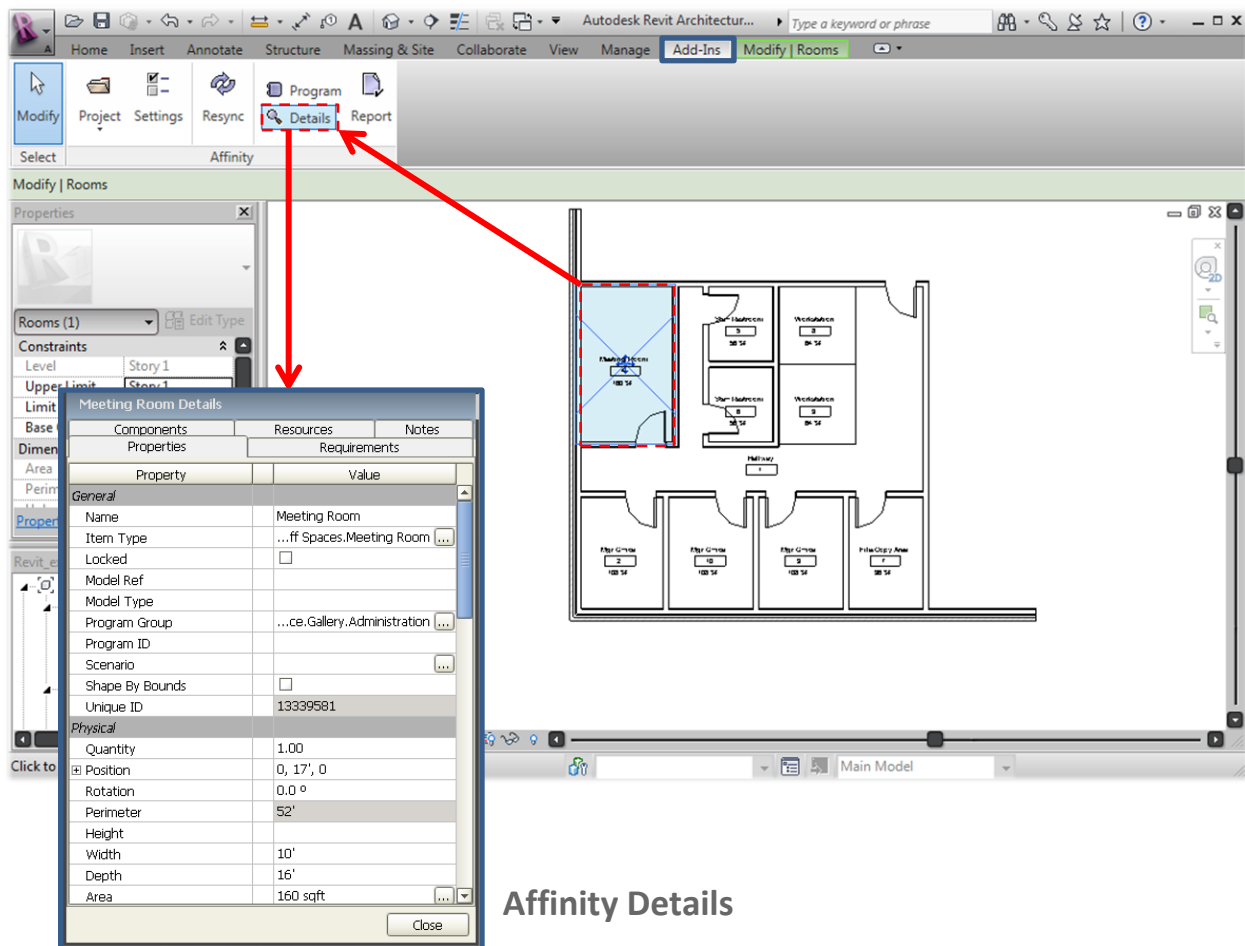


The screenshot illustrates the workflow for loading an Affinity Design into Revit. The 'Project' menu is open, and the 'Load...' option is highlighted. The 'Affinity Settings' dialog box is shown, with the 'Sync Scenario' set to 'All', 'Rooms' selected under 'Items to Synchronize', and 'Room Items' and 'Walls' selected under 'Items to Generate'. The 'OK' button is also highlighted. A red arrow points from the 'Load...' option to the dialog box, and another red arrow points from the dialog box to the main Revit window. The main window shows a 2D schematic plan of a building layout, which is being converted into a more detailed Revit model. A red arrow points from the schematic plan to the Revit model, indicating the transition from a simple schematic to a more developed plan ready for production.

- In a short period of time, the Revit Design can be developed from a schematic plan to a more developed plan ready for production.

C. VIEW DETAILS

The Program details in the Affinity project file are now linked to the Revit Model for the duration of the project. The room details, program and reports can all be accessed by the production team through Revit without the need to launch the Affinity application.



Affinity Details

3. SUMMARY

In summary, Affinity provides a series of easy-to-use tools to create an early conceptual or schematic design that can then be loaded into Revit. This Use Case walks through the process of starting with just an Affinity program, creating a design in Affinity based on the program, and loading that design (complete with rooms and walls) directly into Revit. The designer can then use this model to continue the development of the design.

The Revit model remains linked to the Affinity design model, allowing the design team to view the program requirements and run Affinity reports from within Revit, without having to launch the Affinity application. Through the bi-directional integration between Affinity and Revit, the design team is able to analyze design-to-program compliance in real time – helping to ensure that as the design progresses in Revit, it continues to meet the client’s requirements as specified in the program.

Note that once the Affinity design model is loaded into Revit, the Revit model becomes the ‘master’ design model. All development of spaces already laid out in the design should be made in the Revit file. Subsequent synchronizations of the models will update data properties/parameter data, and will add newly laid out spaces from Affinity, but will not affect the previously designed spaces in Revit.