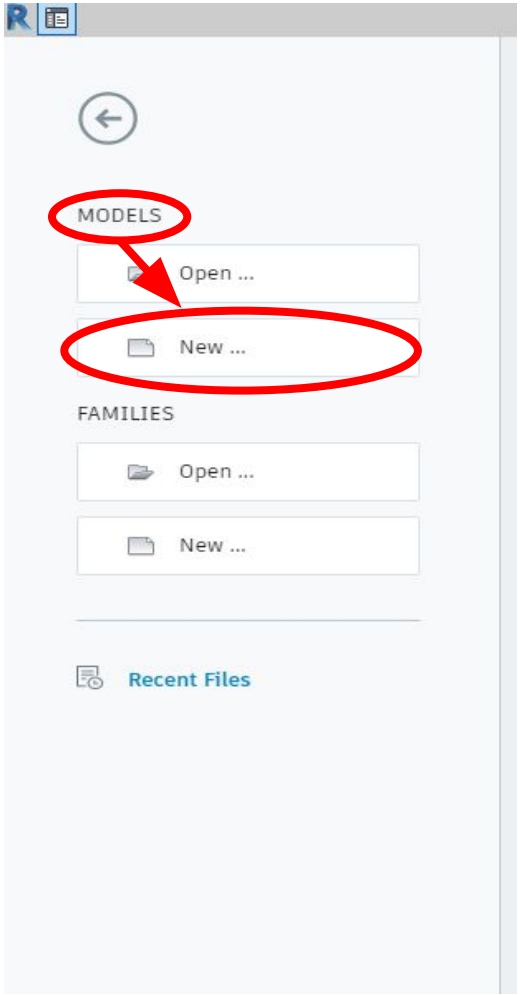
Revit Workshop

ARCH@UCSD

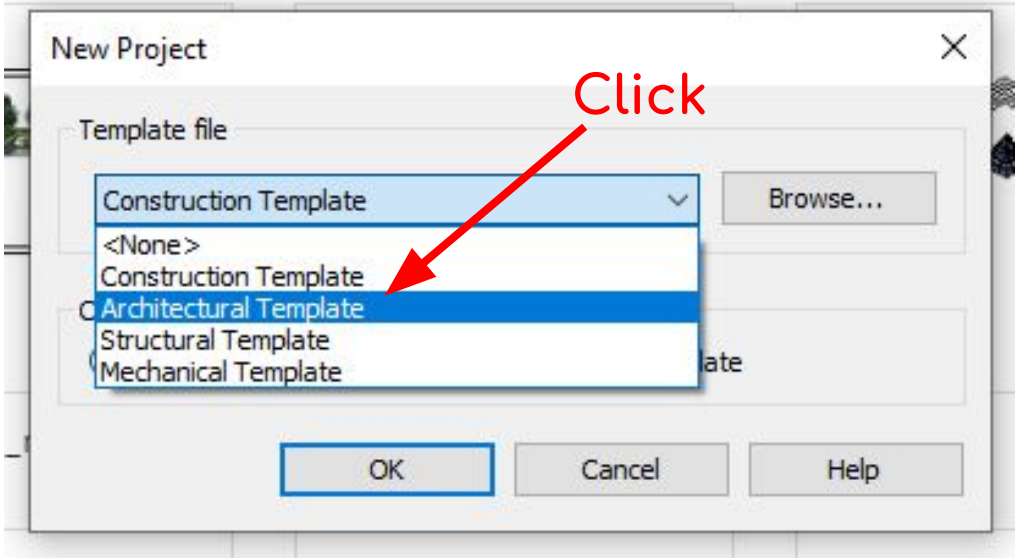
Revit Basics

Create New Project

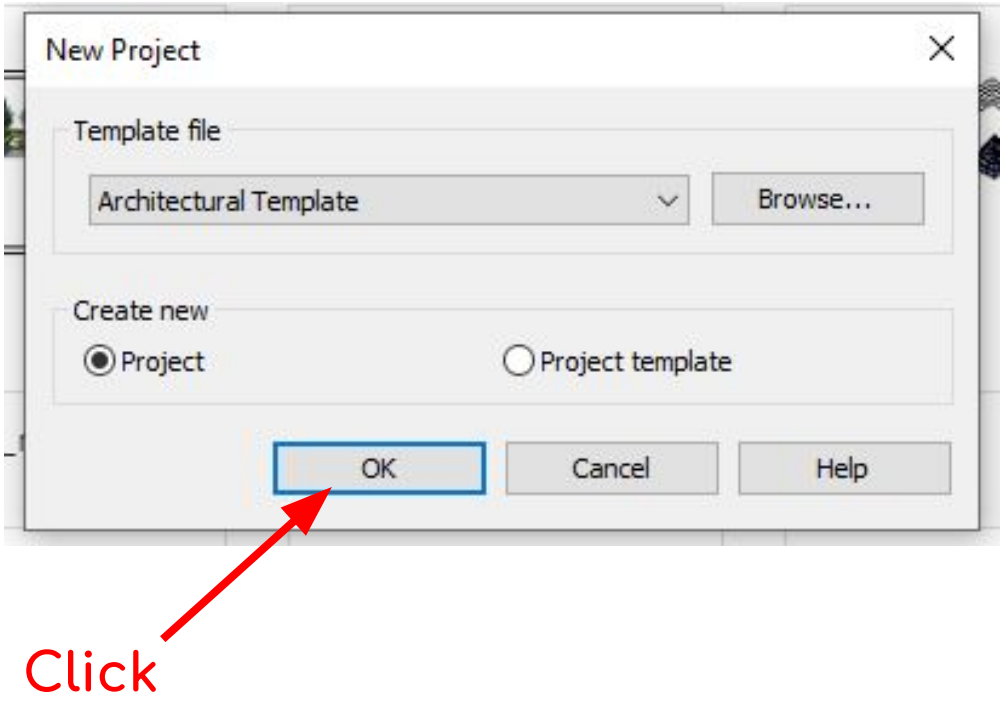
Open a *New Template* Under *"Models"*



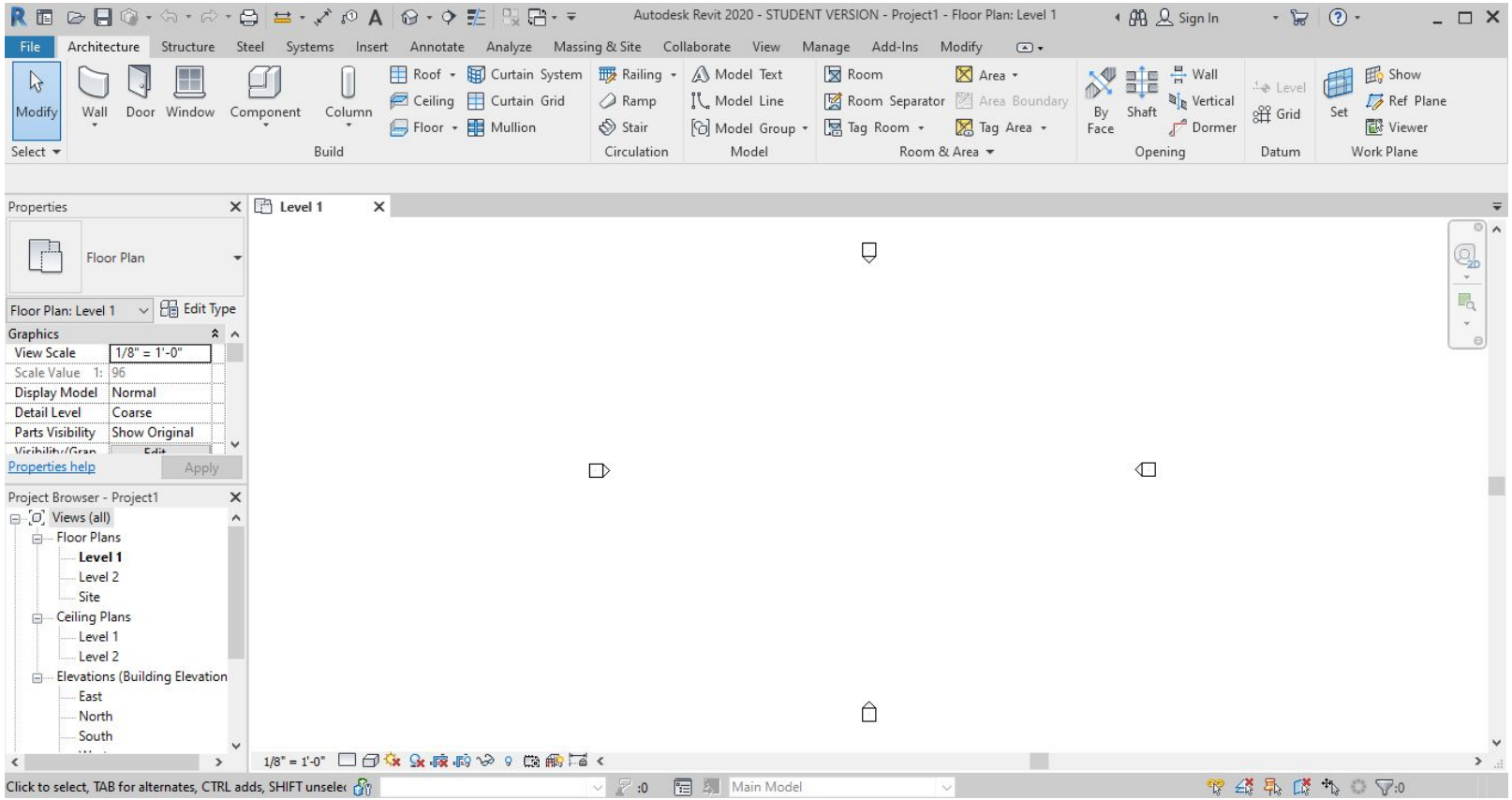
Choose
"Architectural"
Template



Leave the *default* options and click *"ok"*

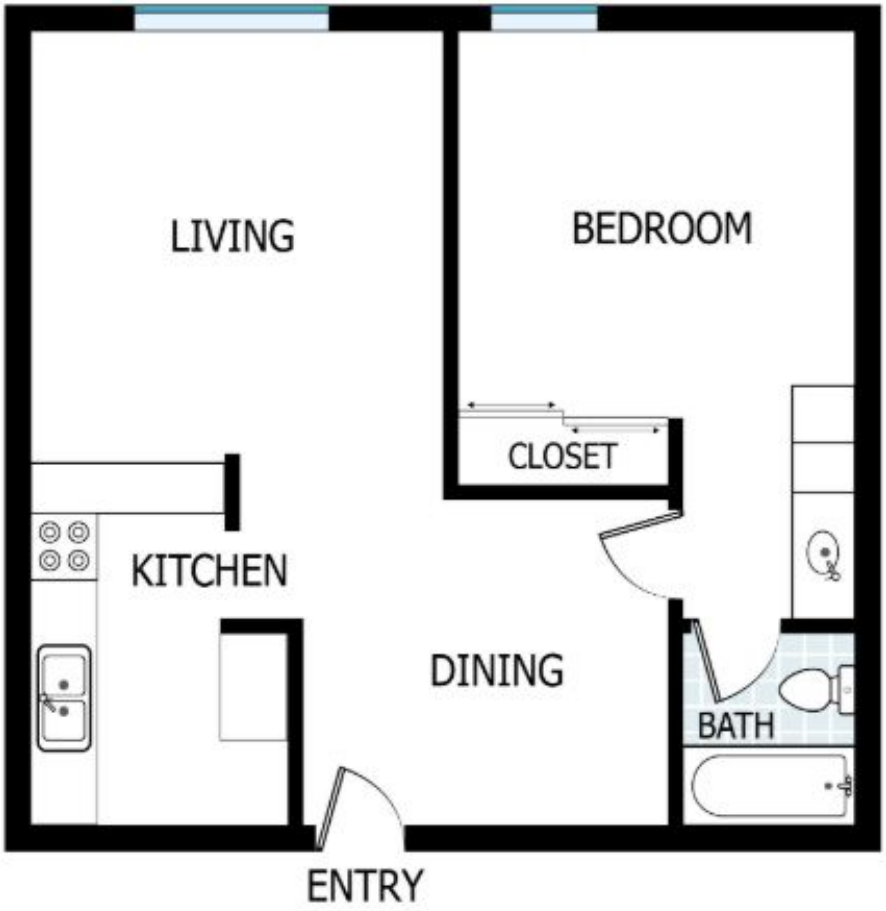


New *Blank* Project

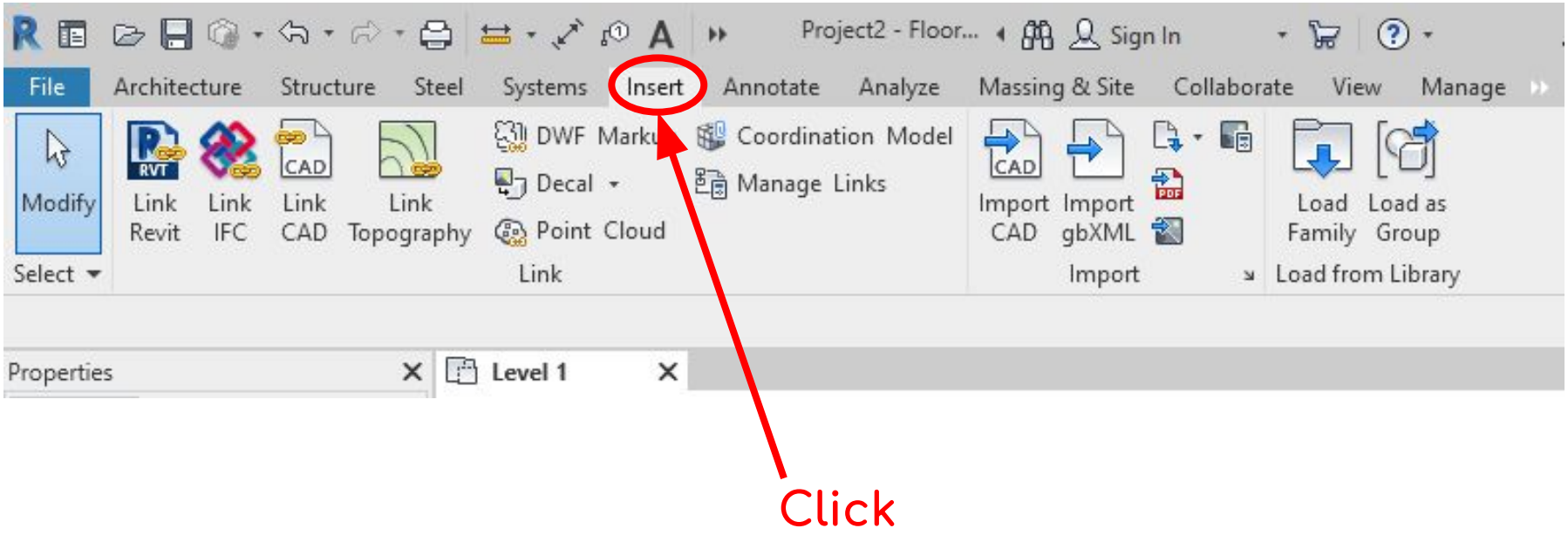


Insert Floor Plan Image

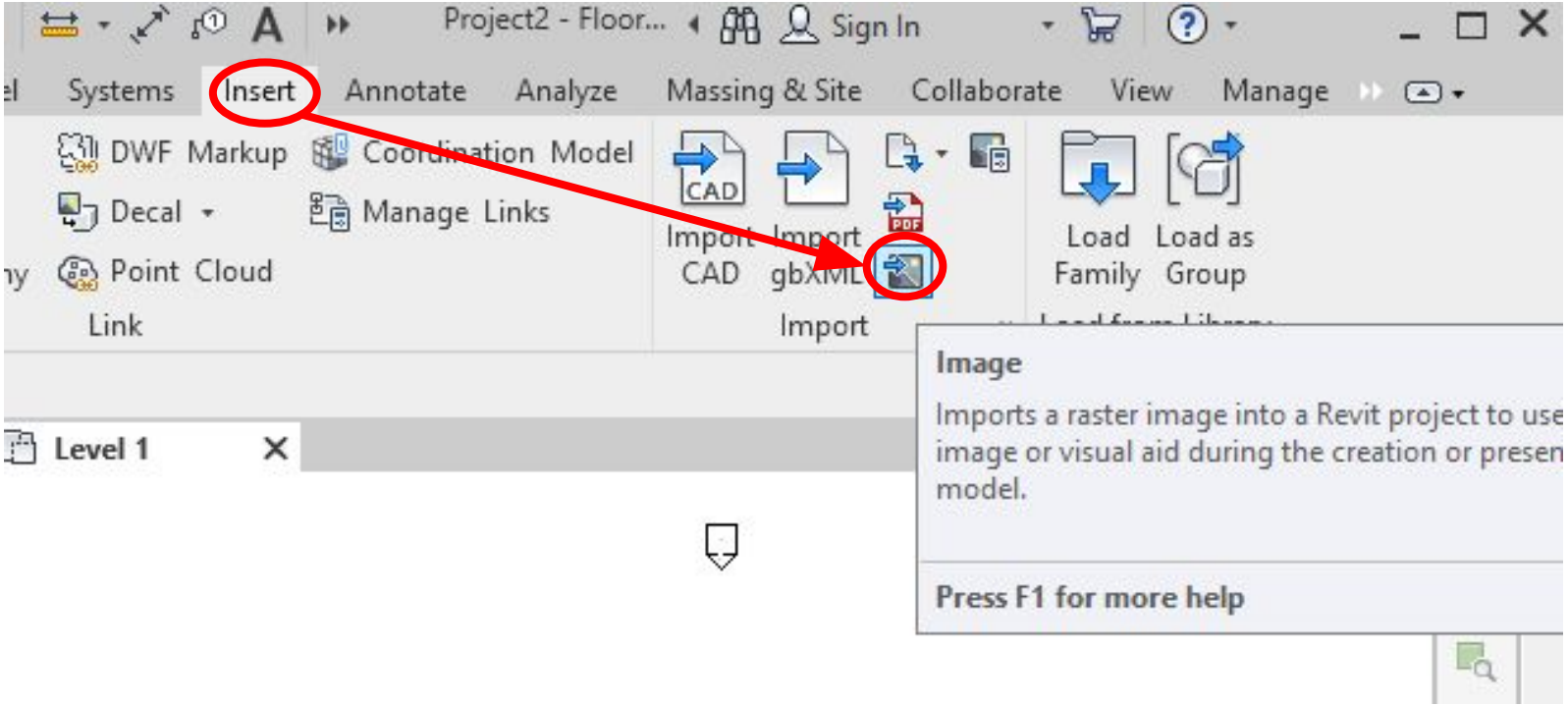
Screenshot
the Floor Plan



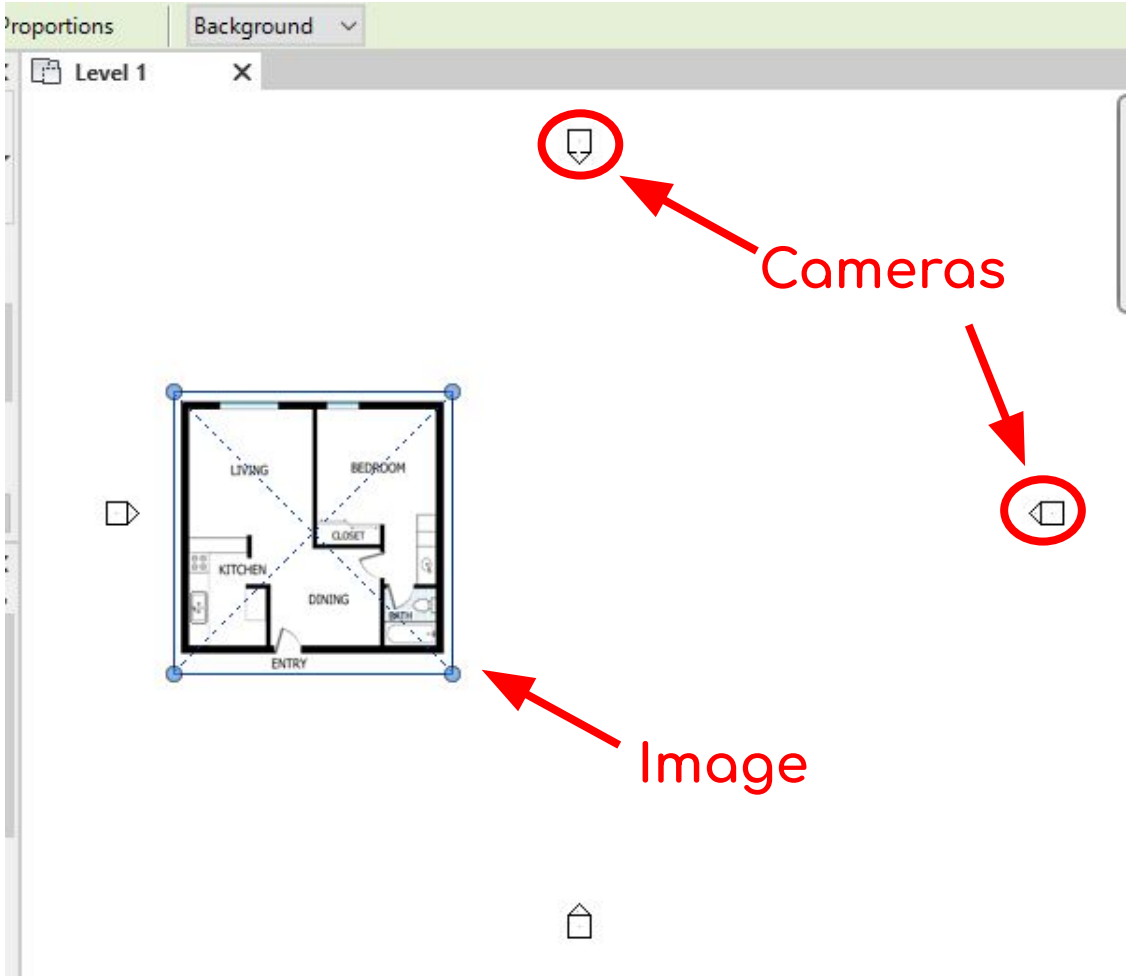
Go To *"Insert"* Tab



Insert *Image*



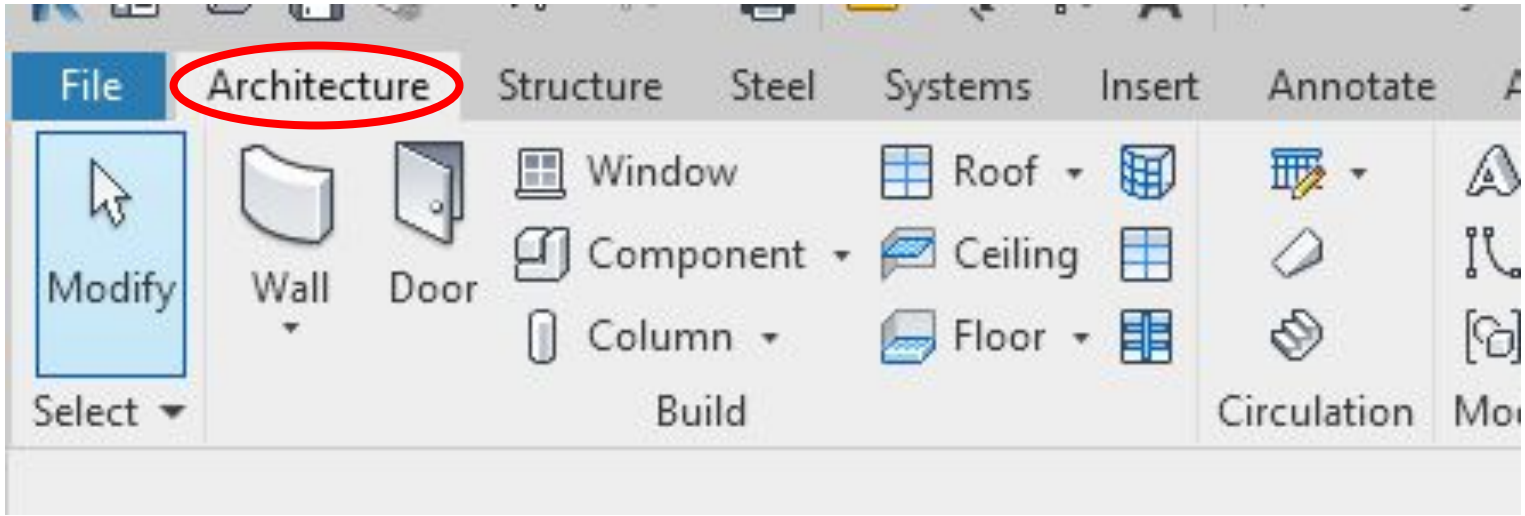
Place *Image* to one side of the cameras (off-center)

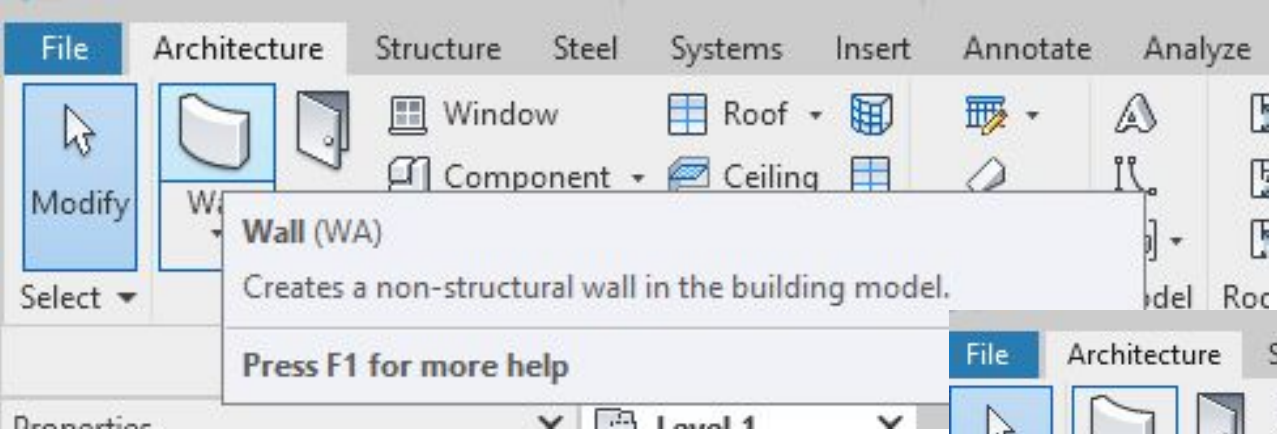


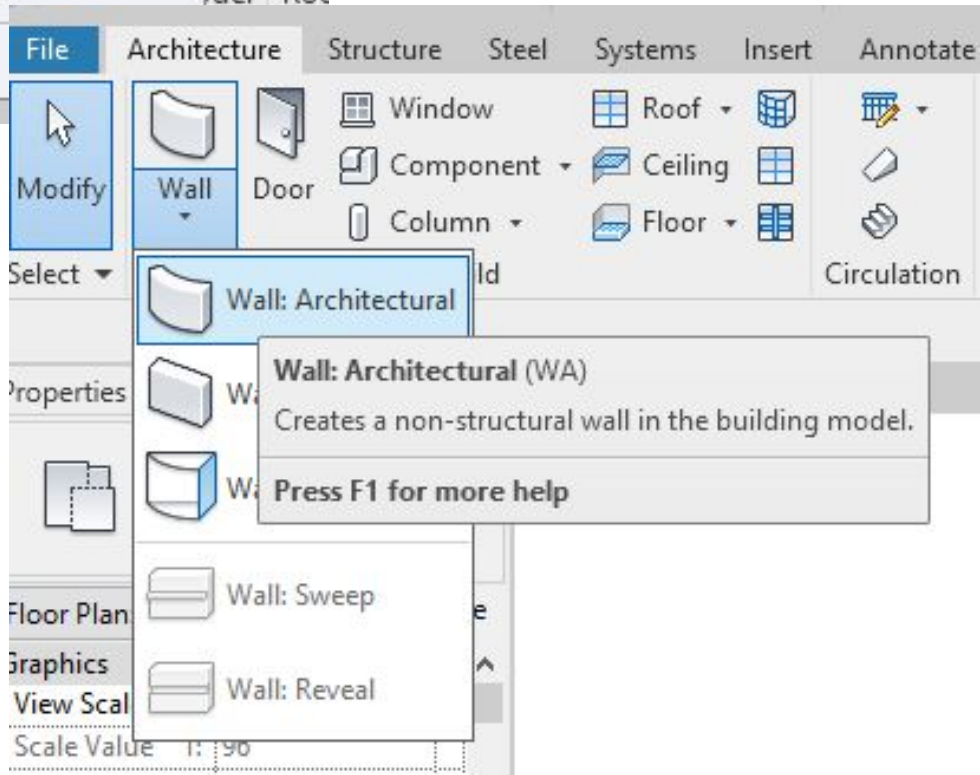
Draw Exterior & Interior Walls

(Doesn’t Need to Be Exact)

Go to *"Architecture"* Tab

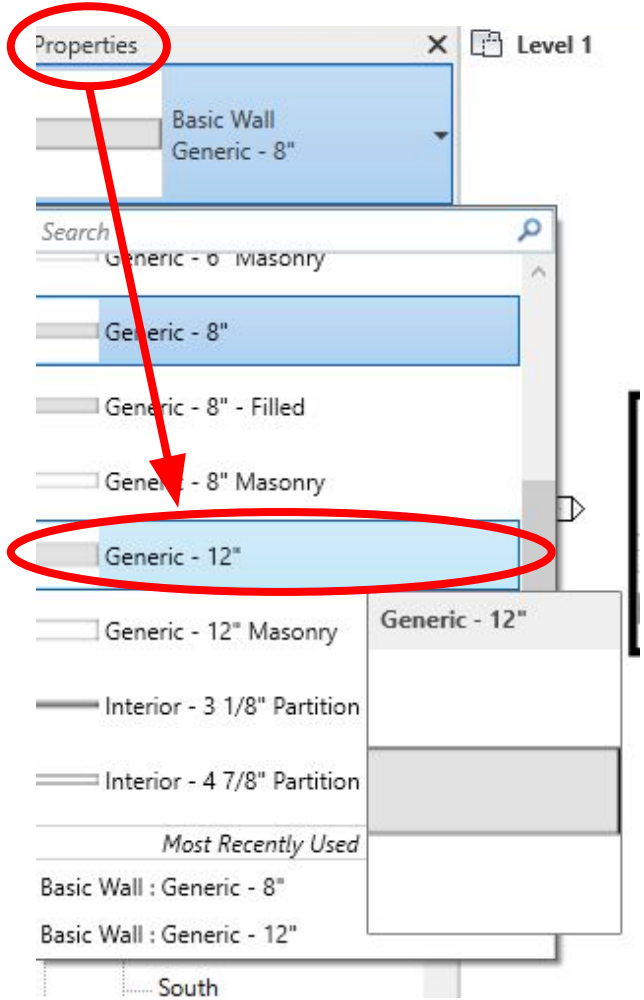






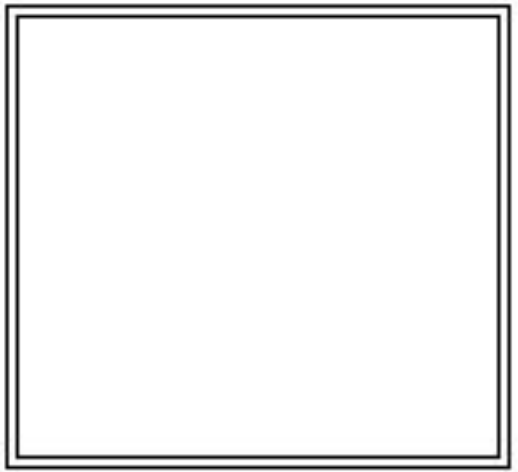
Choose *"Wall"* or Drop-Down Menu *"Wall: Architectural"* which is default & what you should choose

Go to *"Properties"* & Change Wall Type to *Generic - 12"* for *exterior wall*

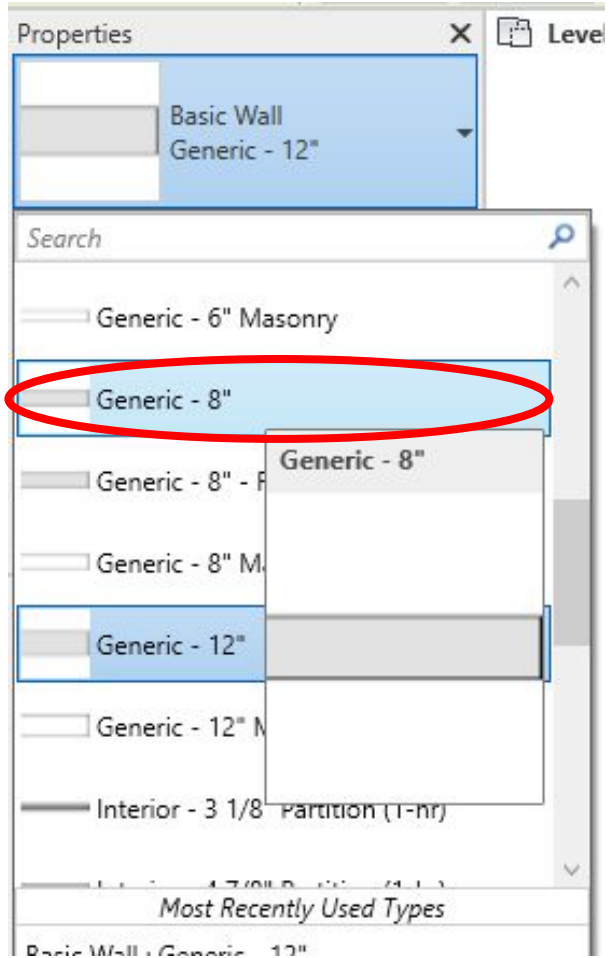


Under *Architecture* tab, Go to *"Draw"* & choose *"Rectangle"*

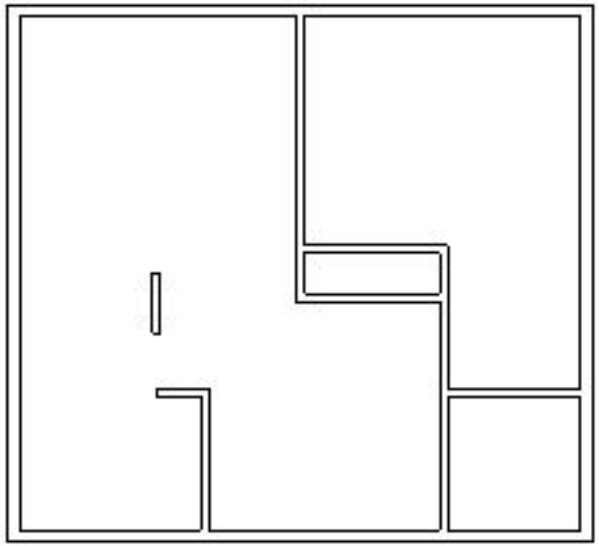
Draw a *rectangle* about the size of the image *(exterior)*



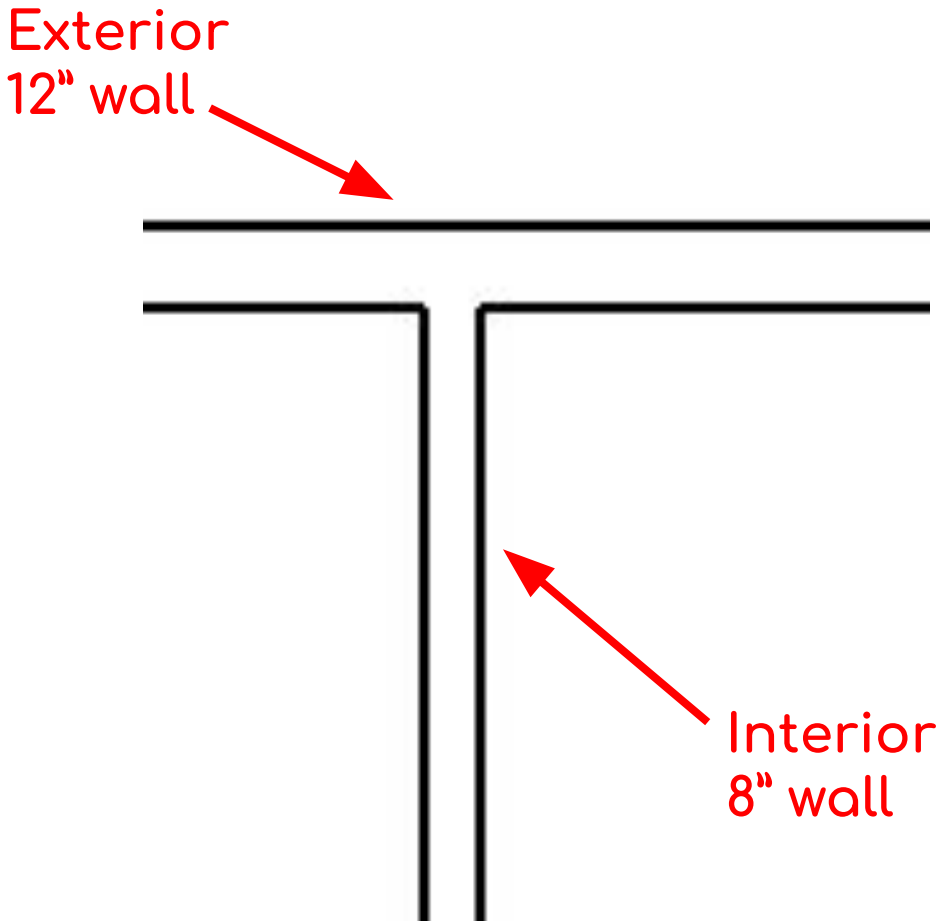
Go to *"Properties"* again & change to *Generic - 8"* for *interior walls*



Use *Generic - 8"* Walls to draw *Interior Walls* using default *"line"* under *"Draw"* drop-down menu

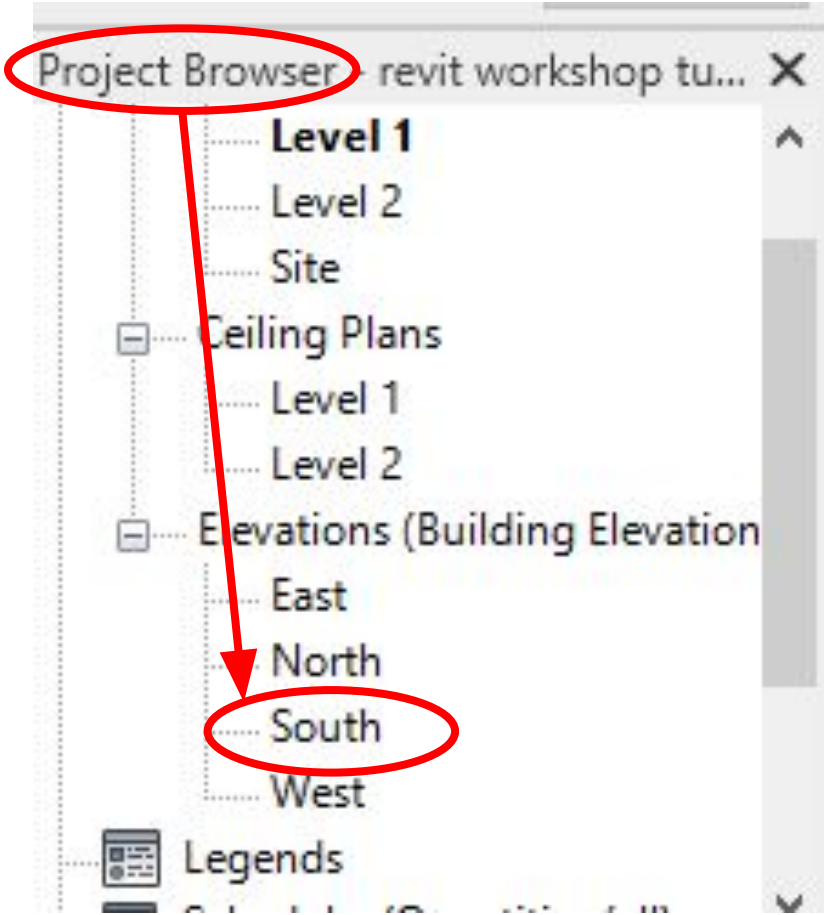


Difference
Between *12" wall*
and *8" wall*

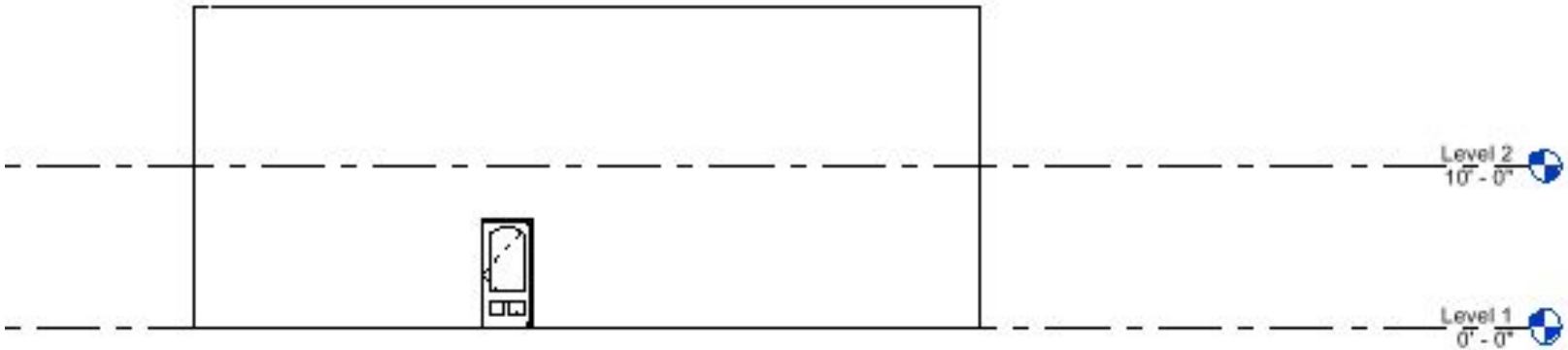


Adjust Wall Height

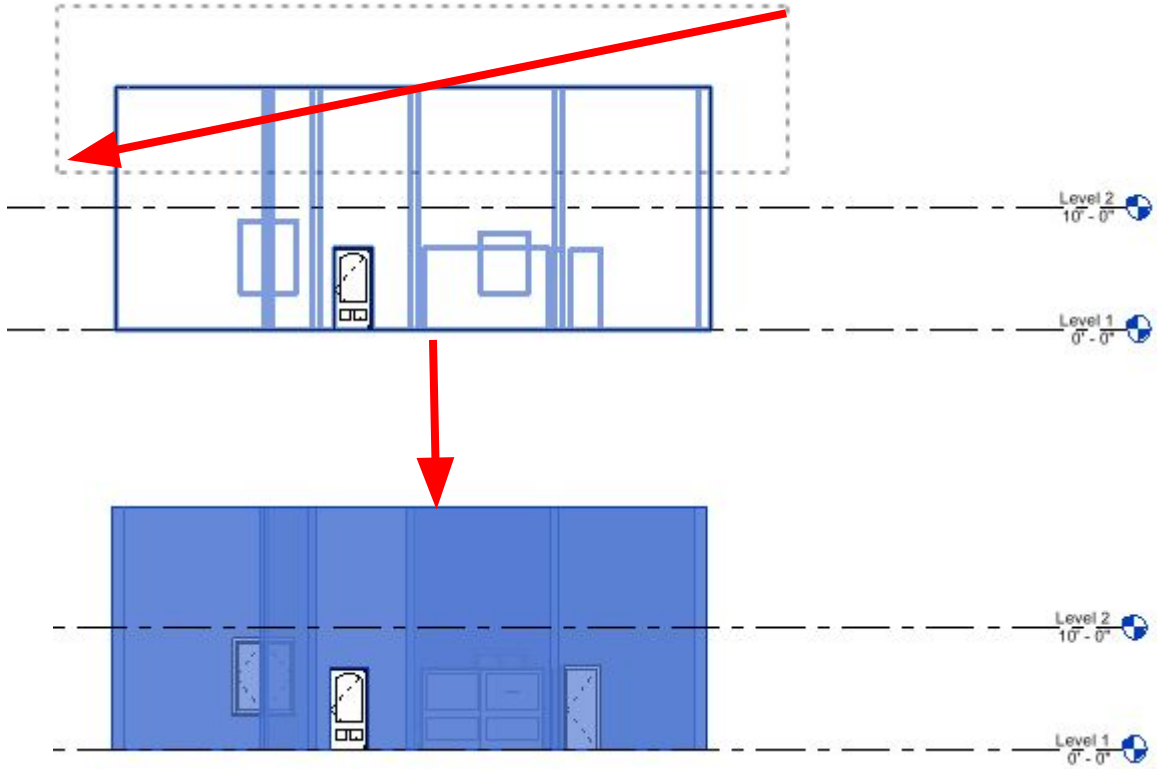
Go to *"Project Browser"* & Click (under elevations) *"South"*



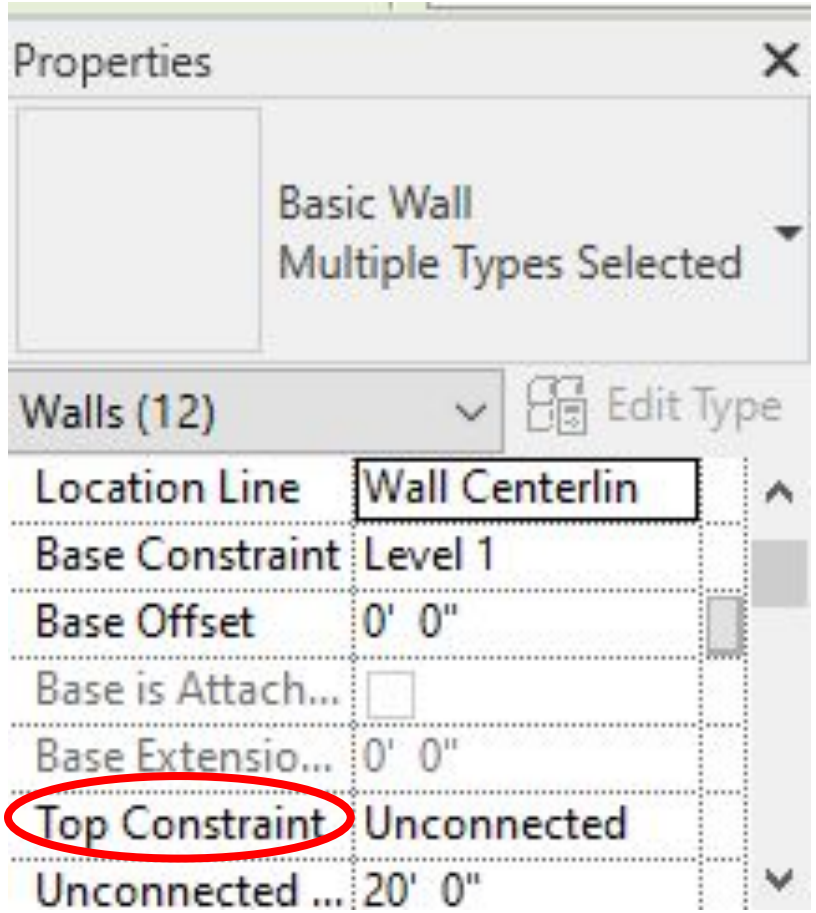
South Elevation View



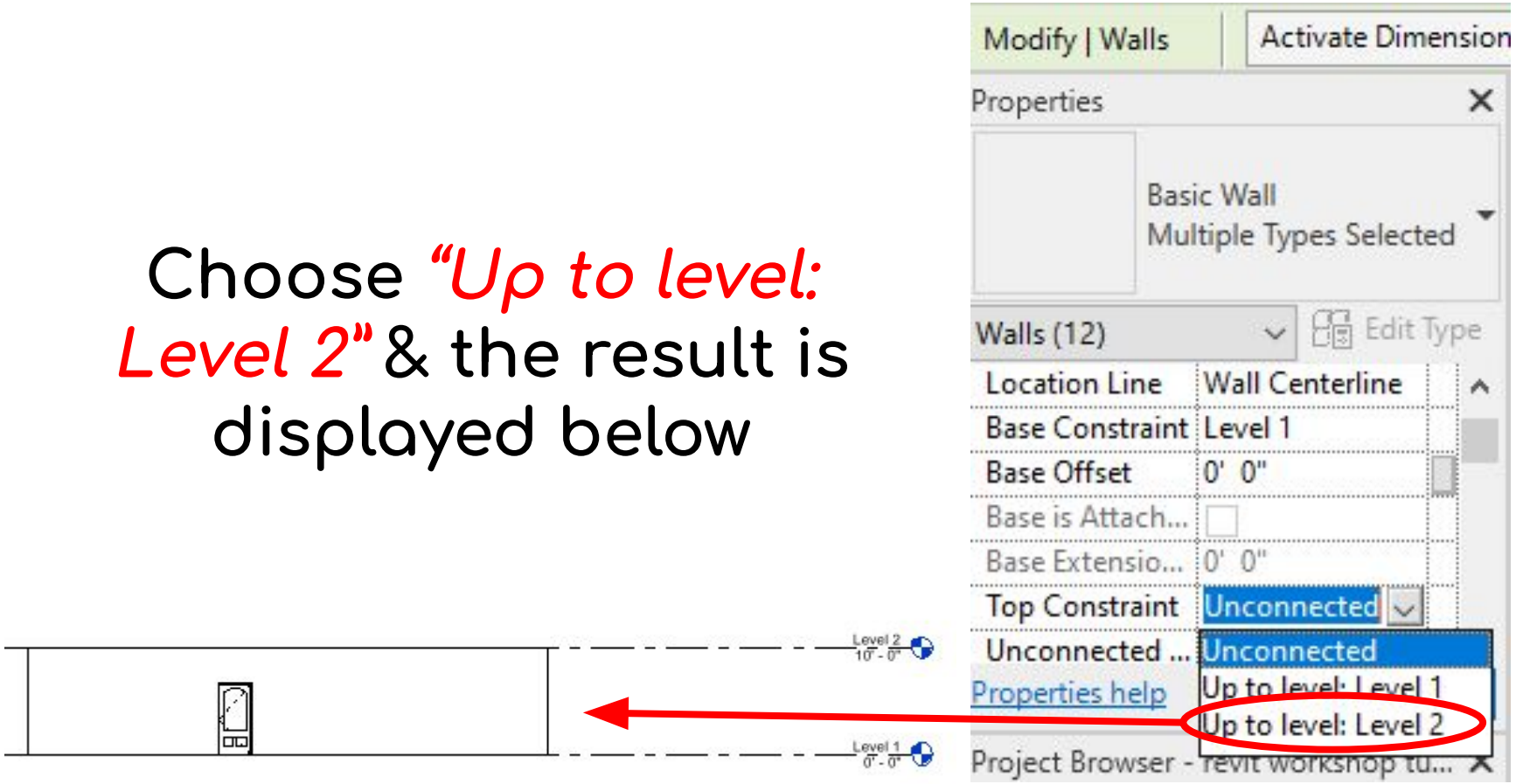
Select *all walls* by cross selecting



Under *"Properties"*, find *"Top Constraint"*



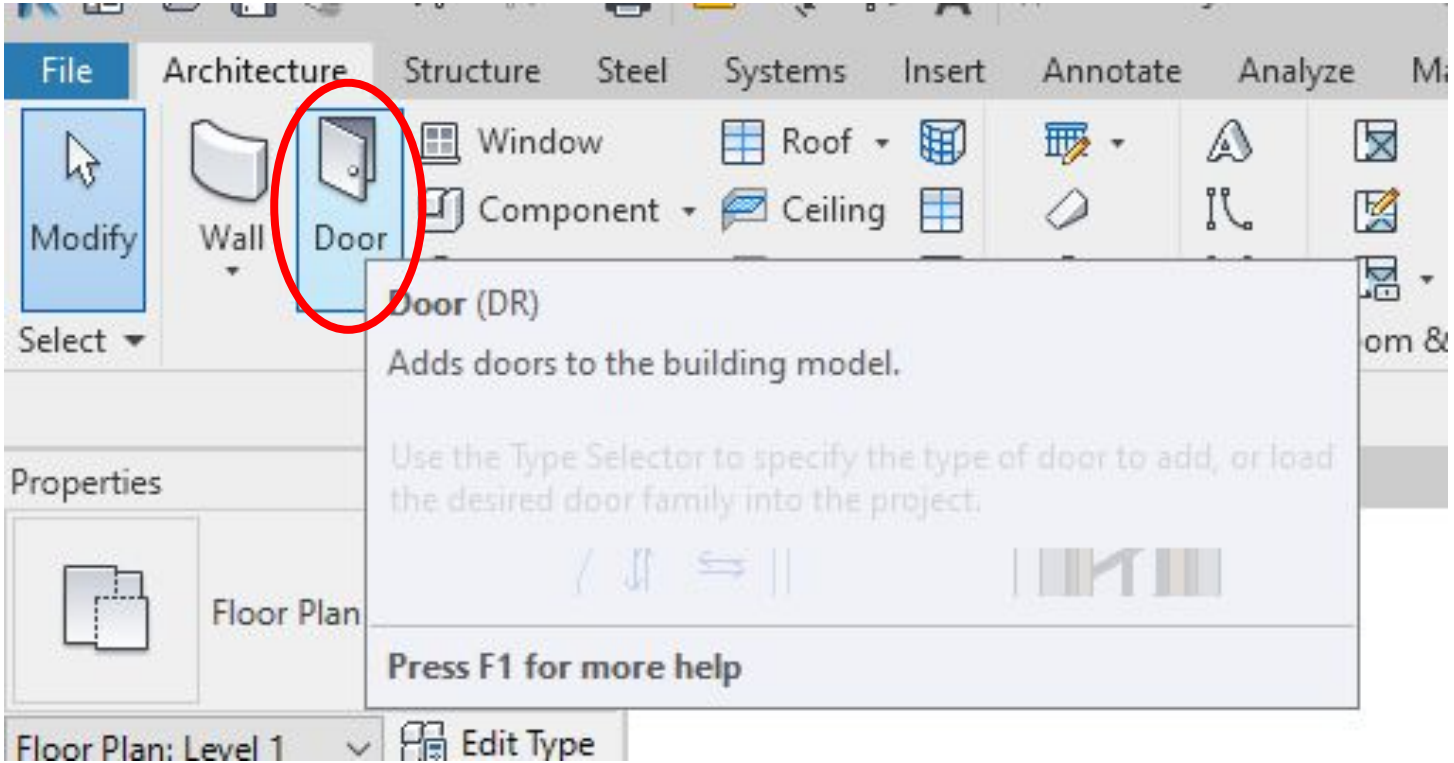
Choose *"Up to level: Level 2"* & the result is displayed below



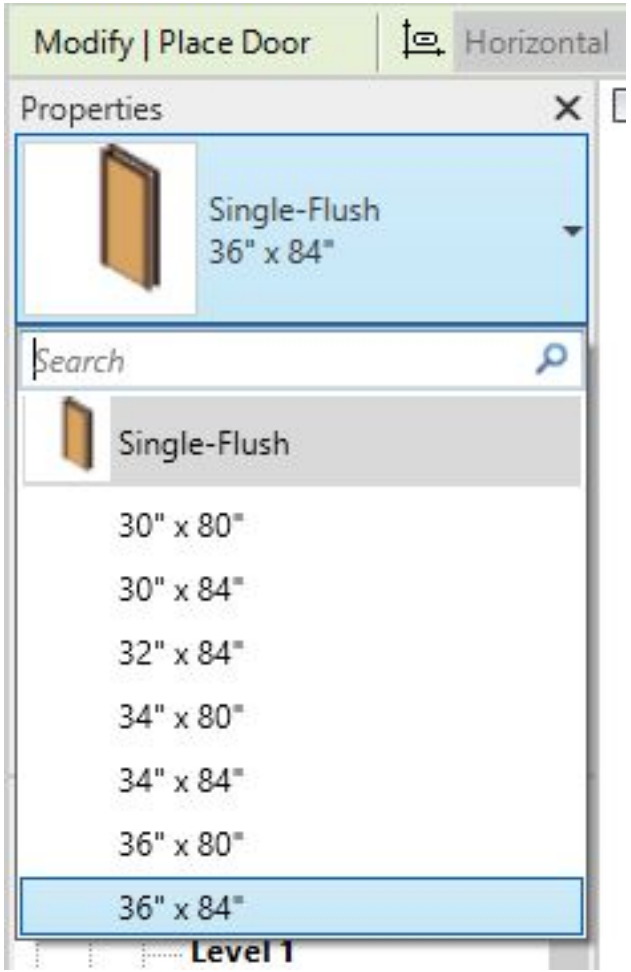
Add Exterior & Interior Doors

(You don’t have to choose the same door style)

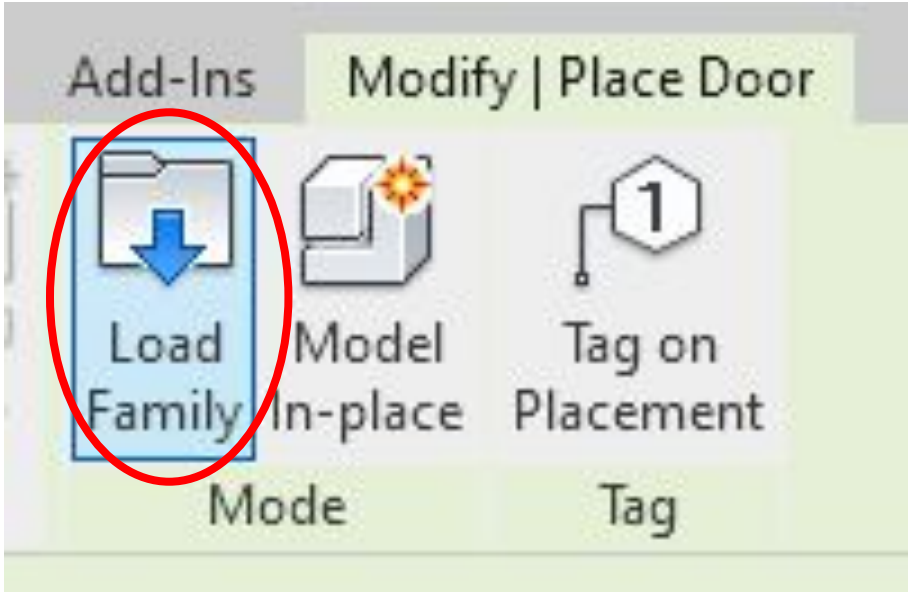
Under *"Architecture"* tab, choose *"Door"*



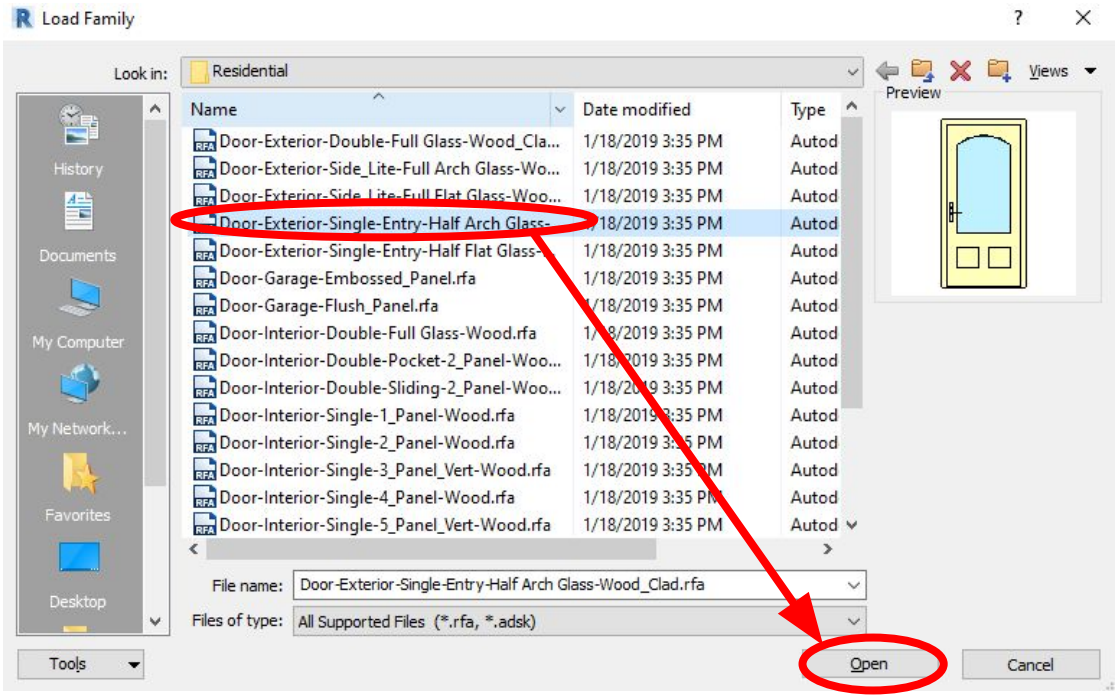
In *“Properties”*, there is no *“Exterior Door”* style door



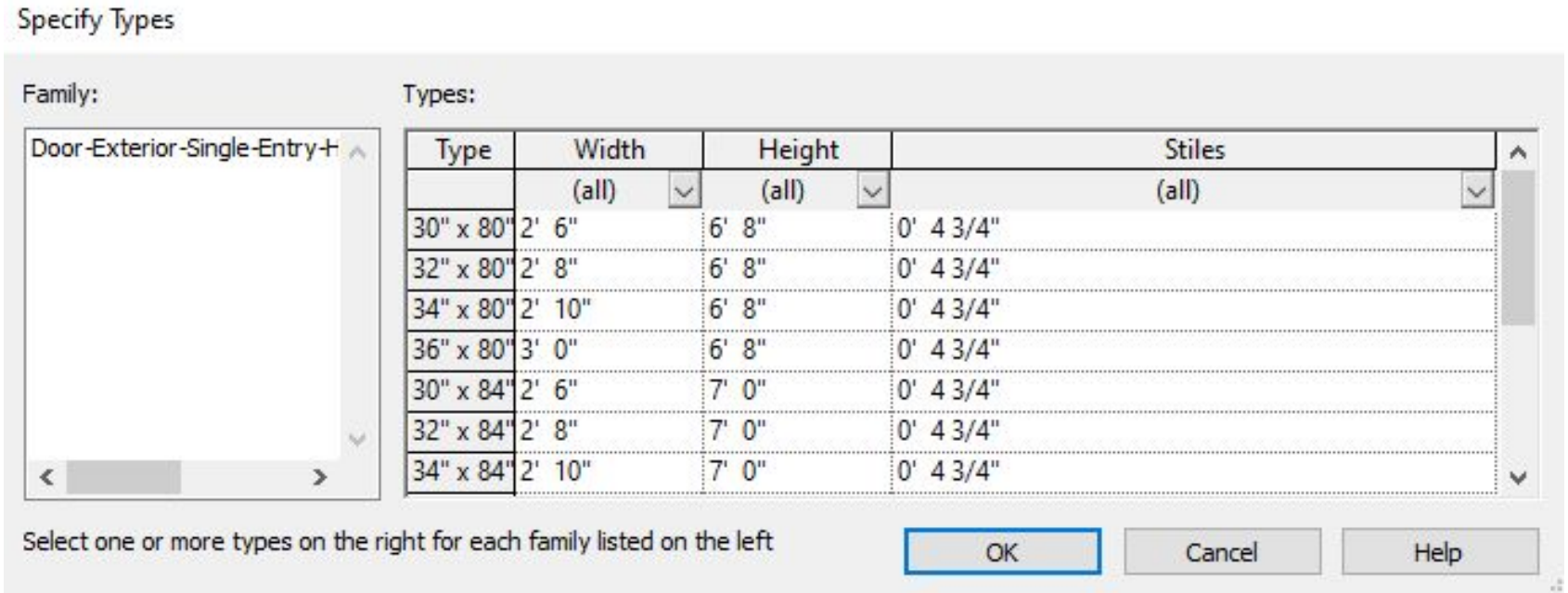
Click on *"Load Family"* to load in more door styles



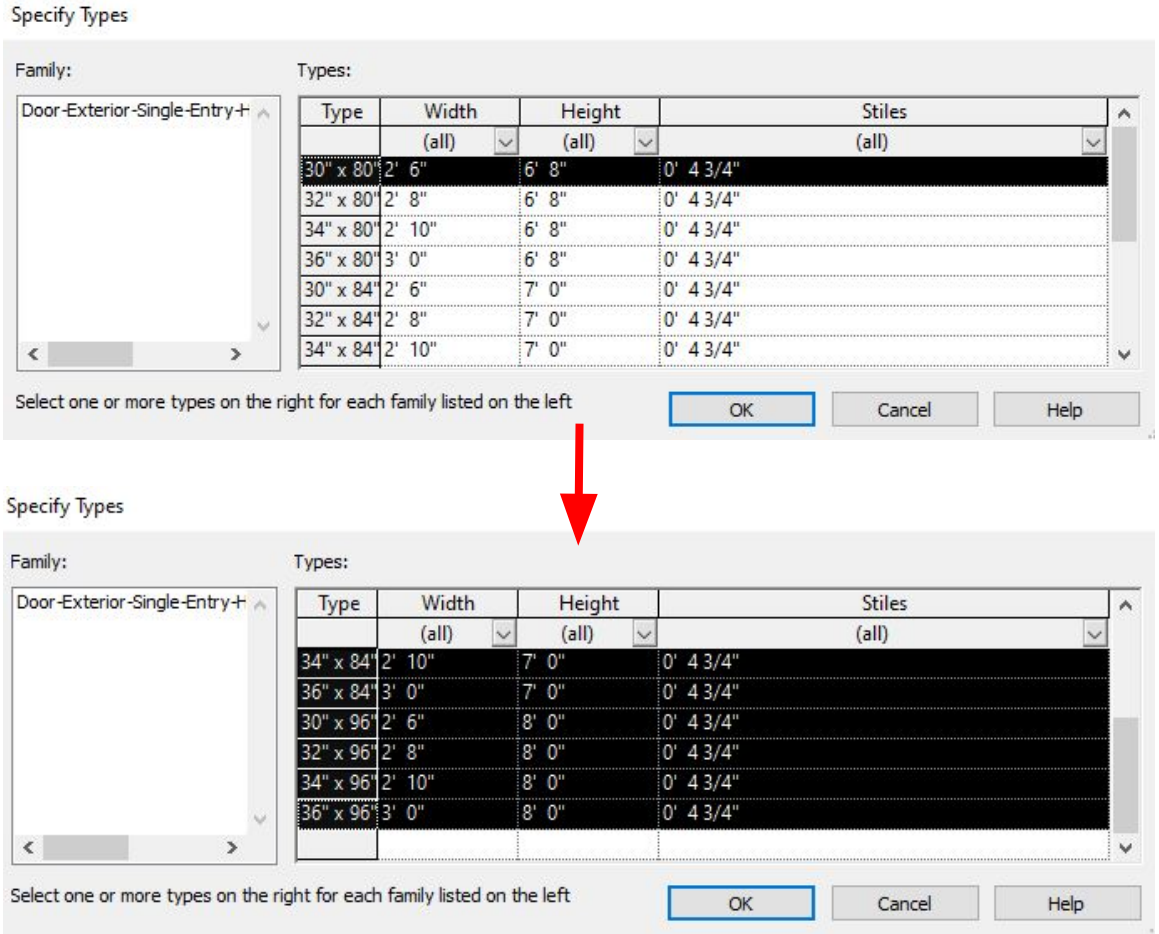
Choose *"Exterior Single Entry Half-Arch..."* & Click *"Open"* or *"Double-Click"*



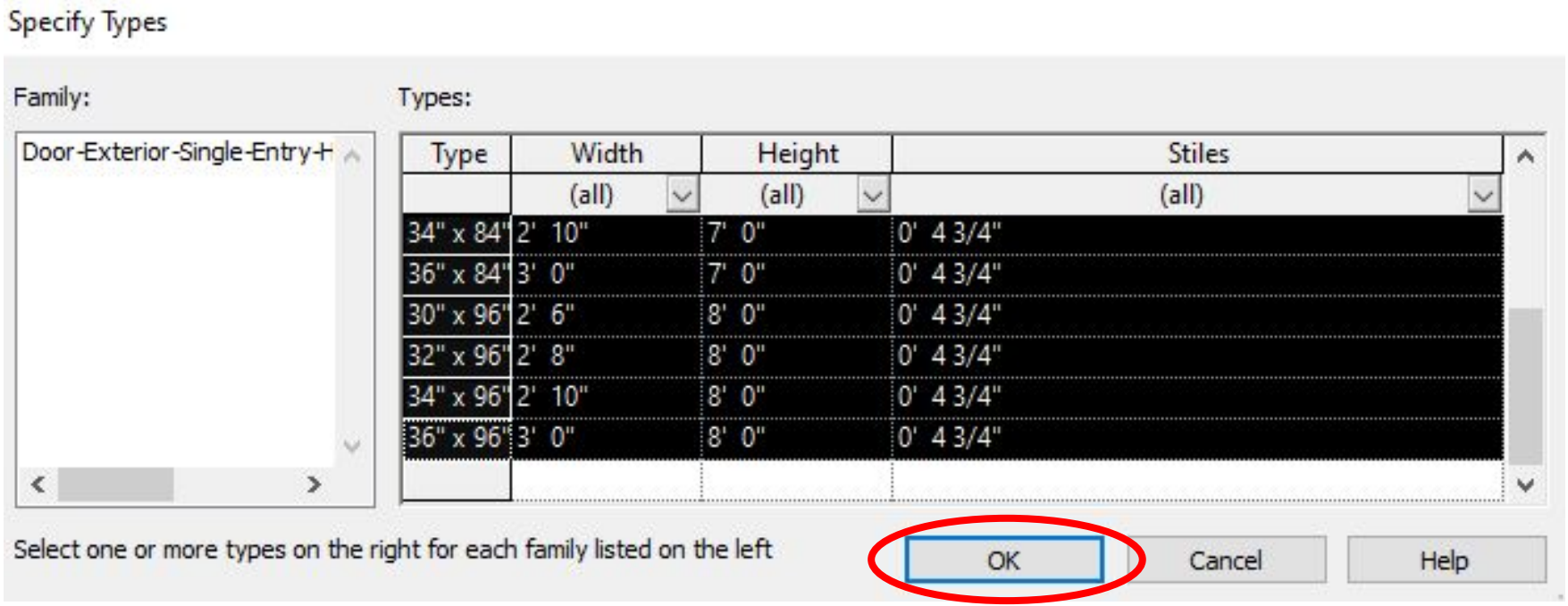
Specify *"Exterior Door"* Type(s) Window



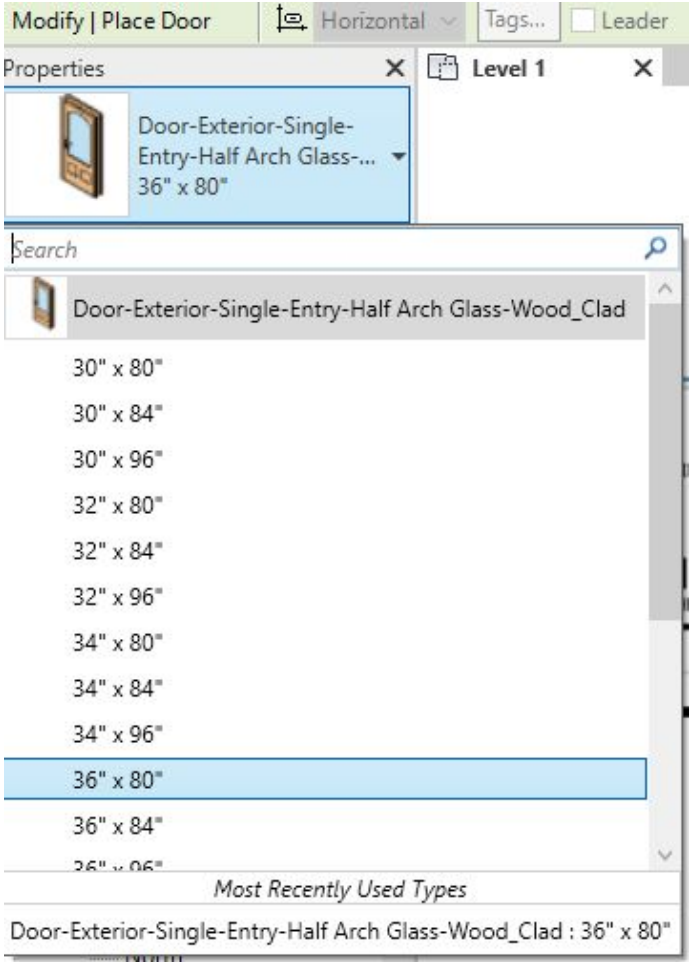
To Select All Types: Click on first one, then scroll to last one & *hold "shift"* & left-click the last type



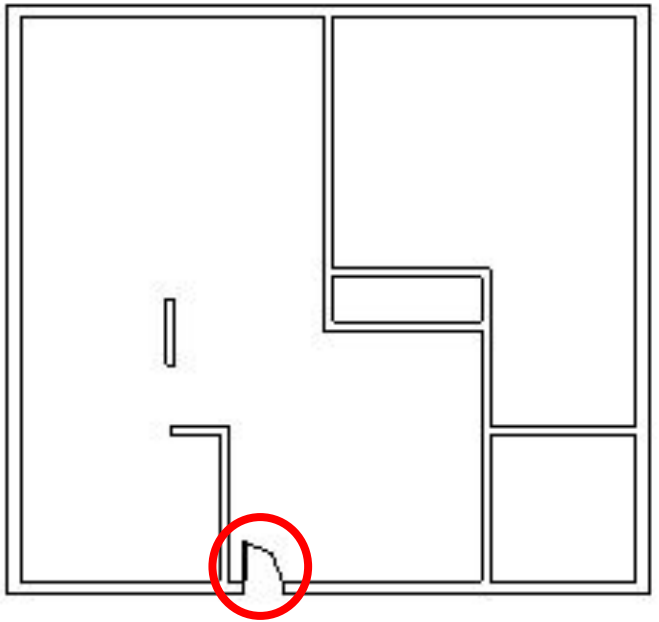
Click *"Ok"* to Confirm Your Selections



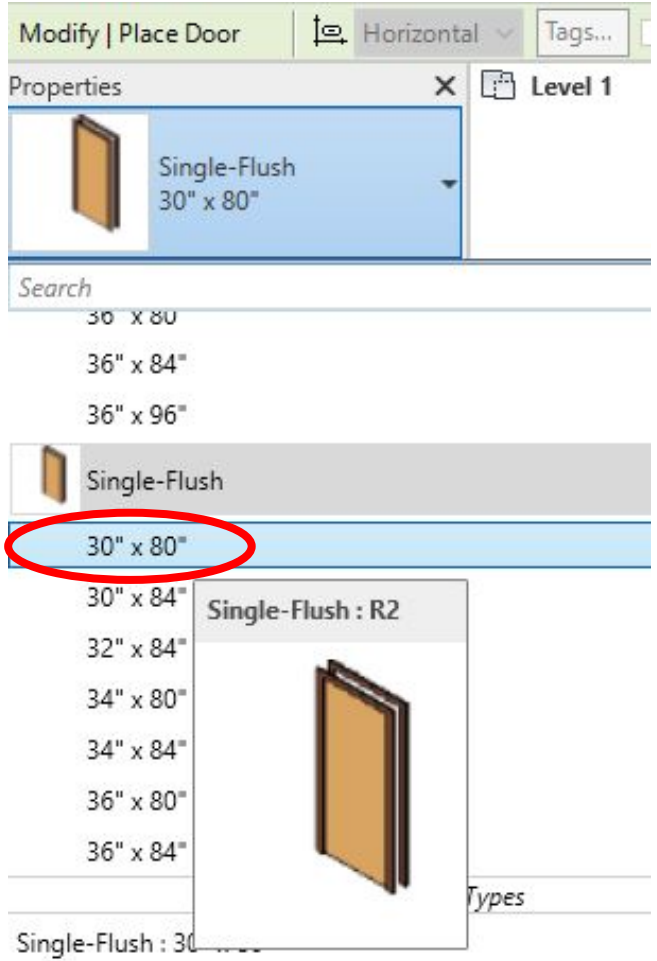
This is what your *properties* should look like after the selections were loaded in



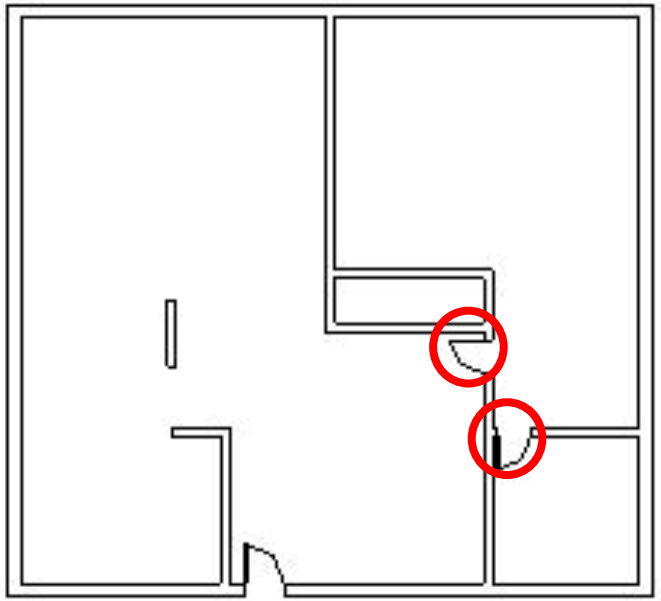
Place the *36" x 80" Exterior Door*



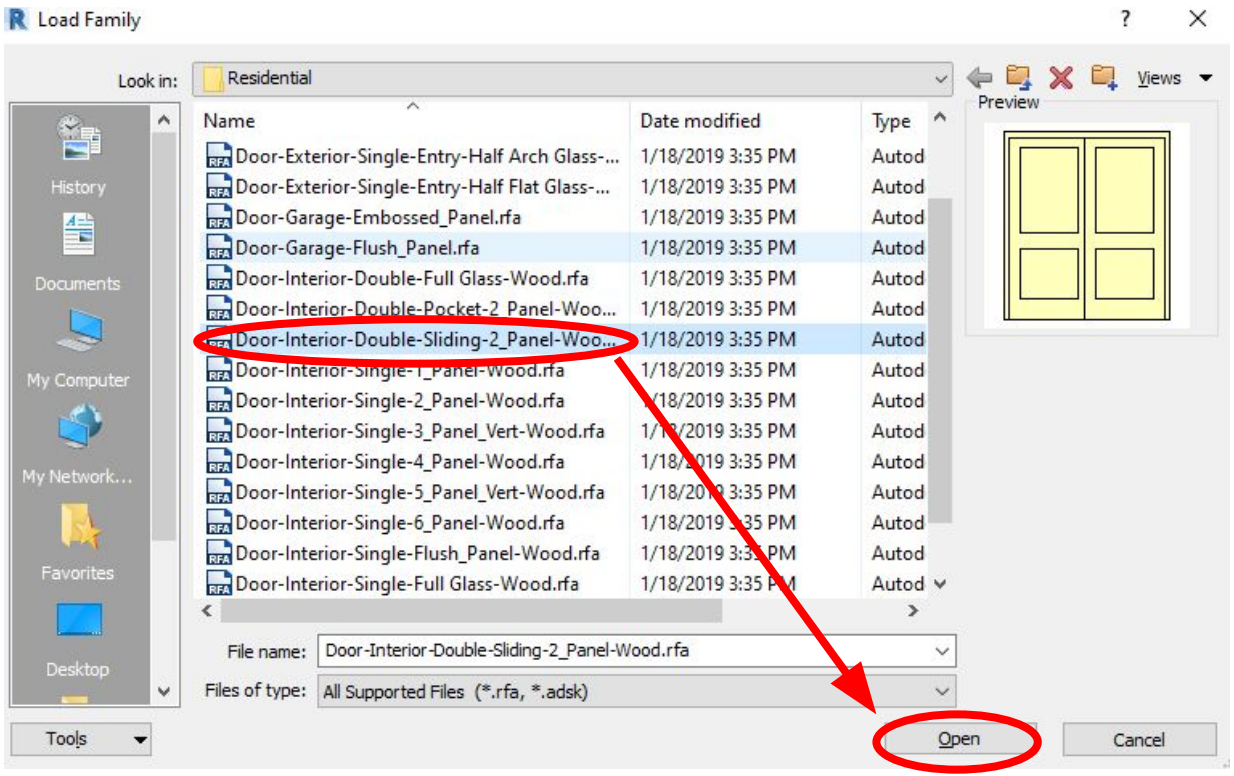
Go to “Door” again, and place *30” x 80” Single-Flush Door* (Go According to the Floor Plan)



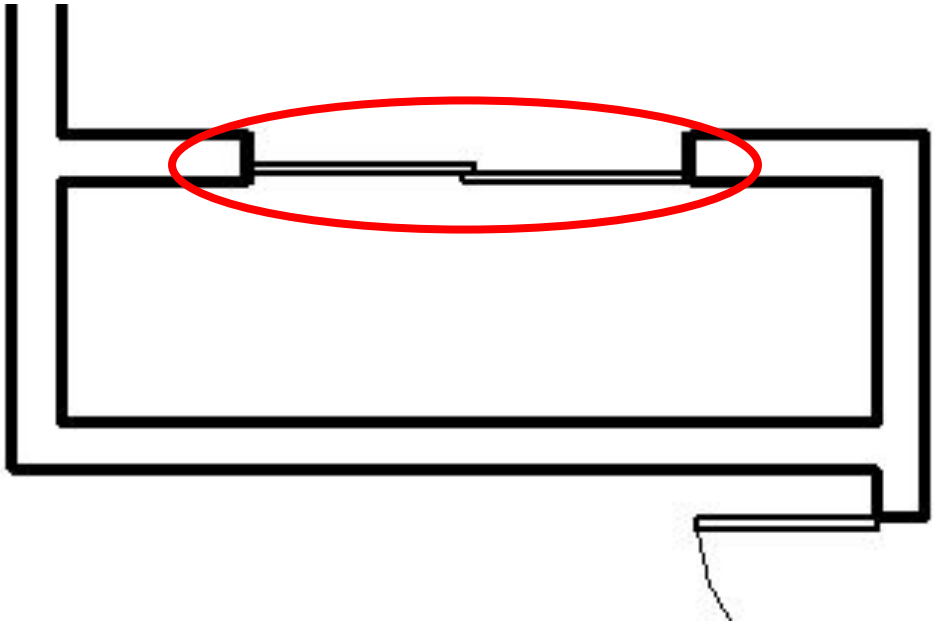
Place *Single-Flush Doors*



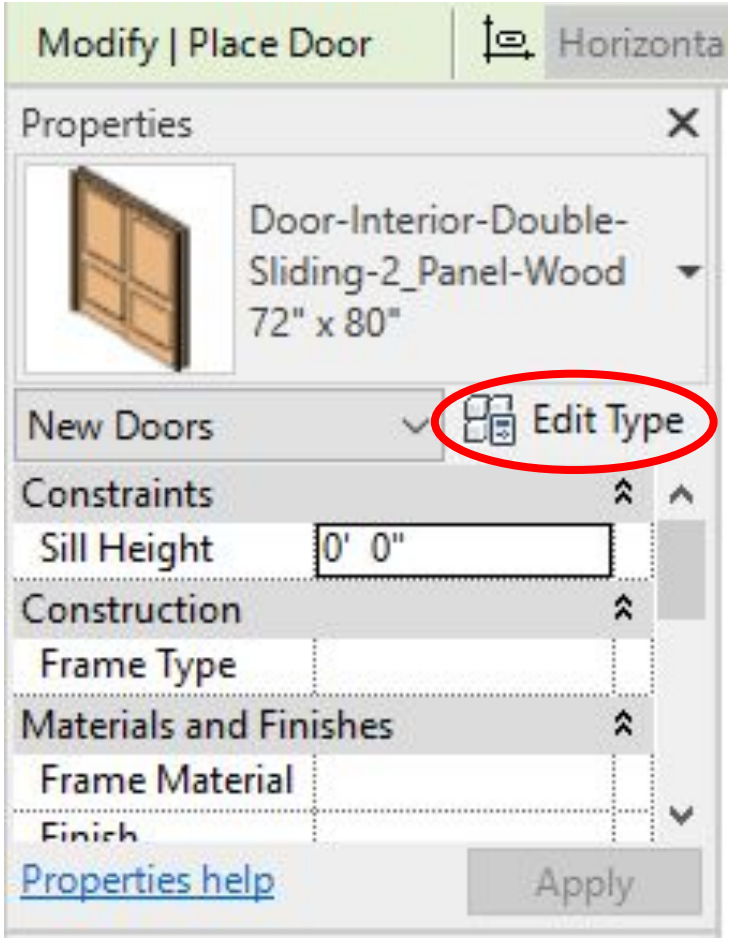
Load *"Interior Double-Sliding 2 Panel..."*



Place *72" x 80" Double-Sliding Door* (Too Narrow)

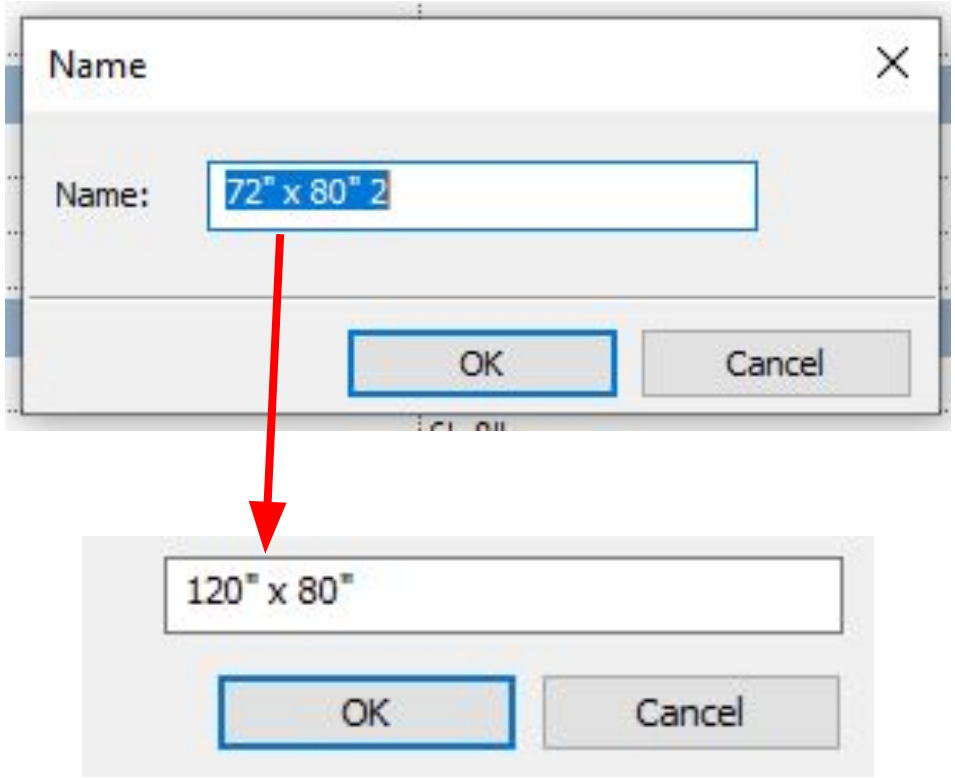


Click *"Edit Type"* to Create a Custom Width for this Door Style

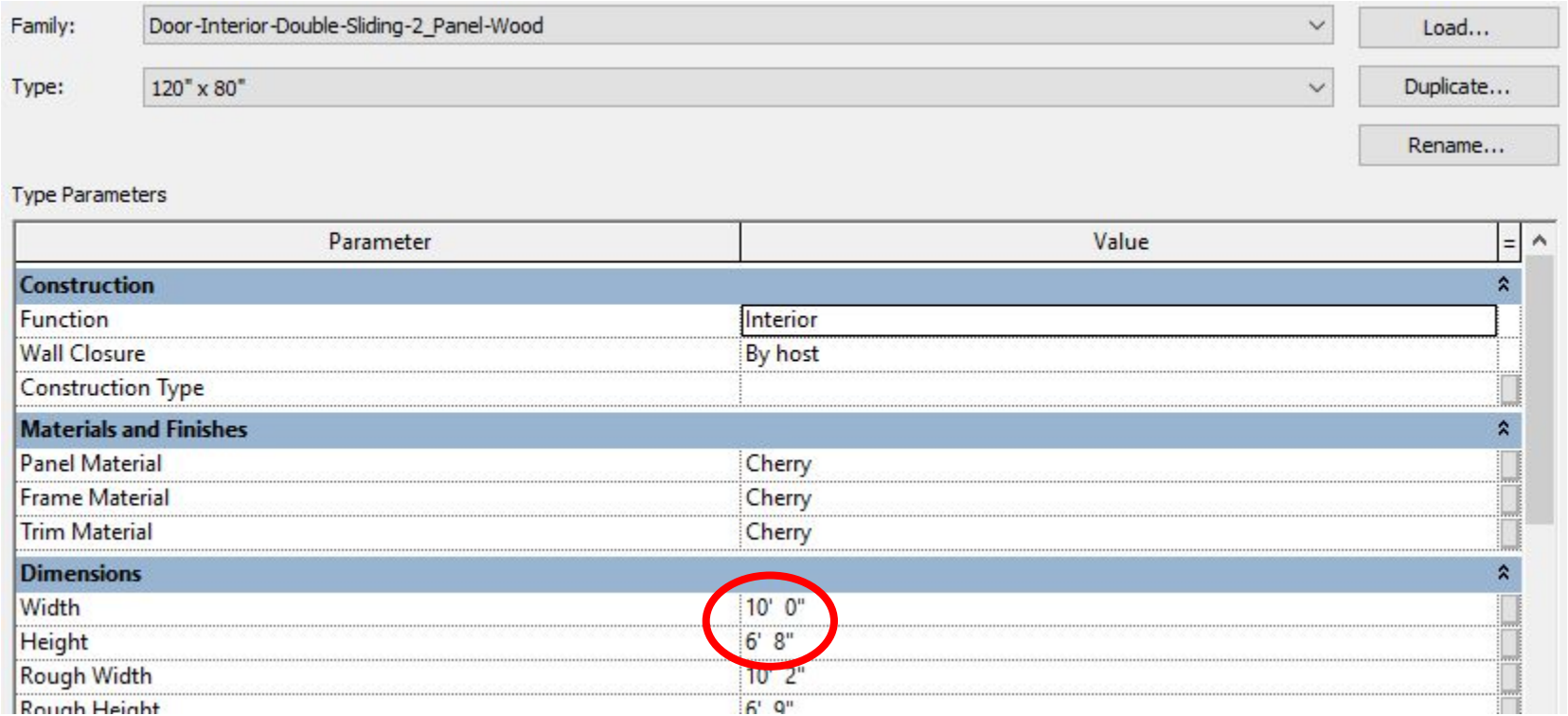


Click *"Duplicate"* to make a copy of the door

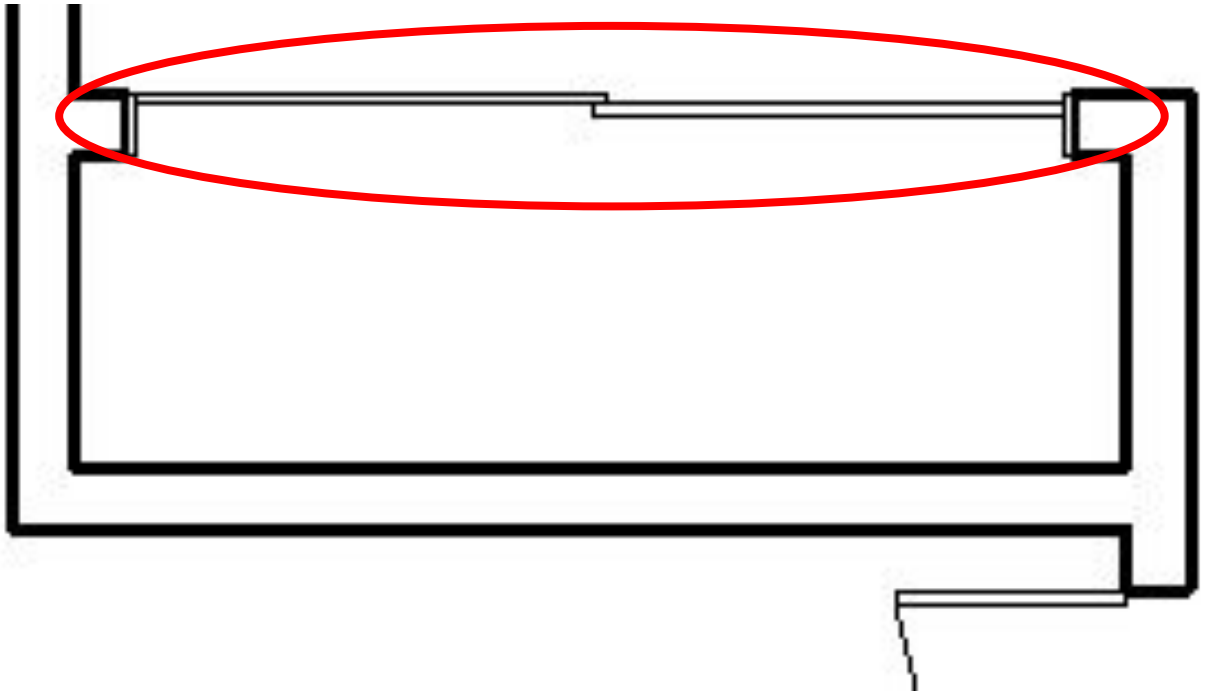
Rename the Newly Duplicated Door



Modify the *"Width"* & *"Height"* to Match New Name

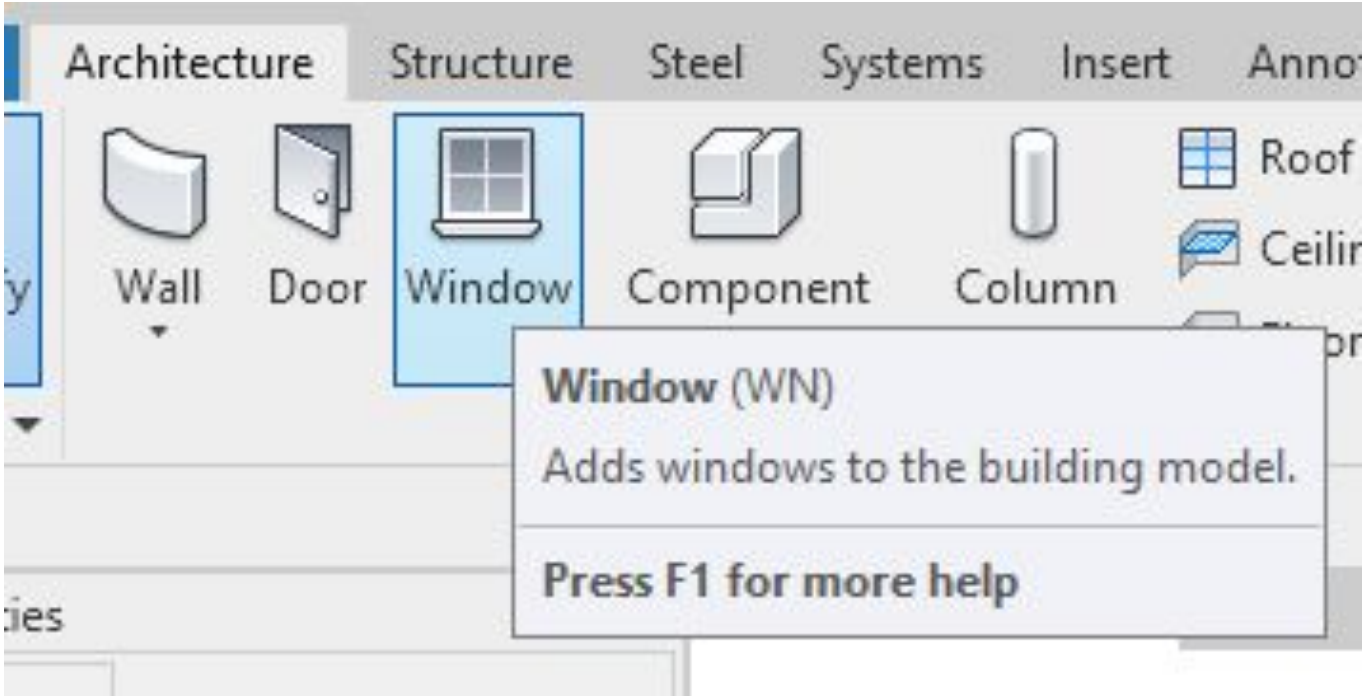


Place *Newly Modified Door*

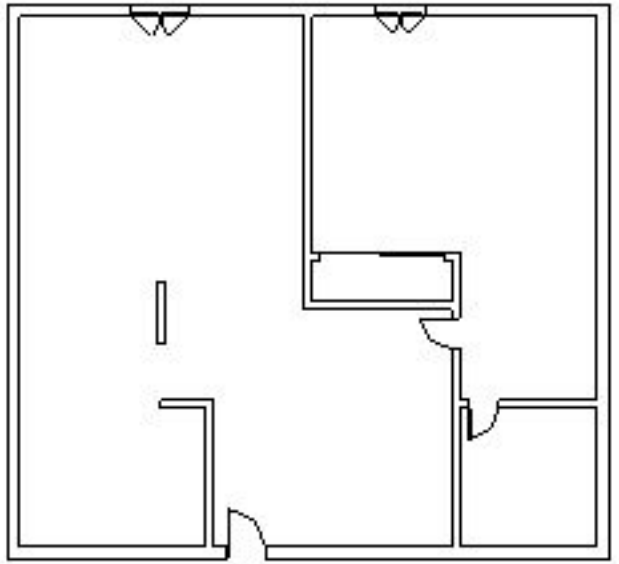


Place Windows

Select *"Window"* under *"Architecture"* tab



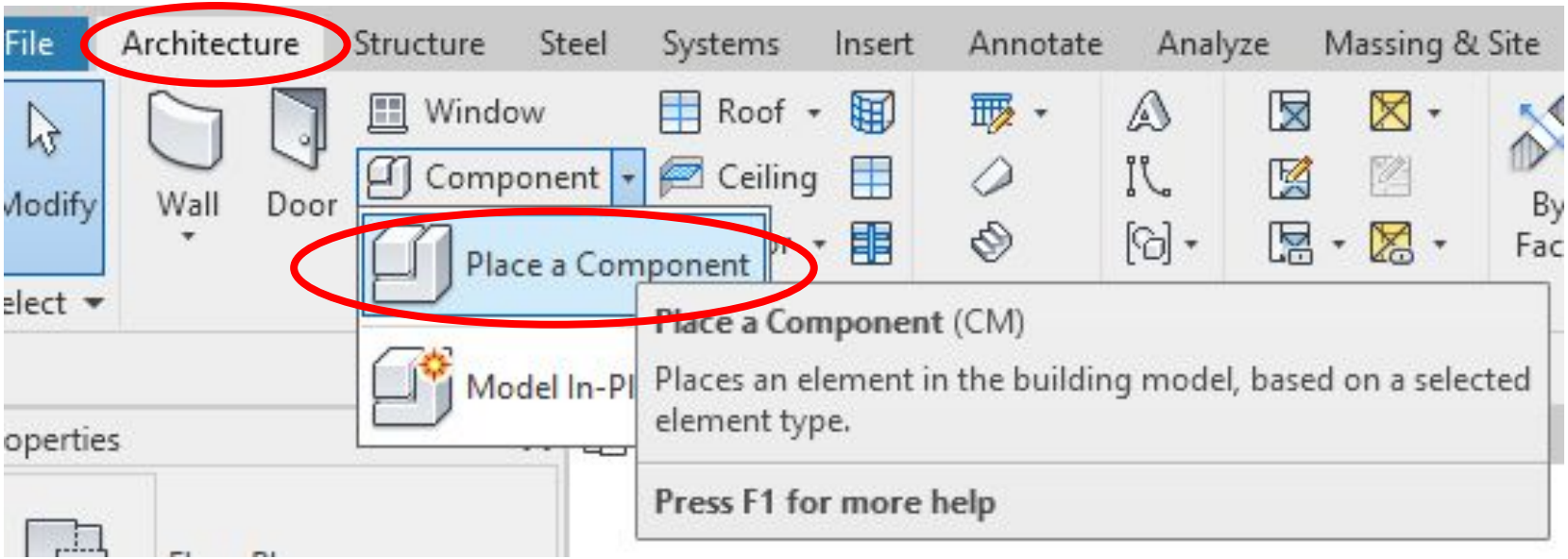
Place any *window* of your choice from the *properties* panel



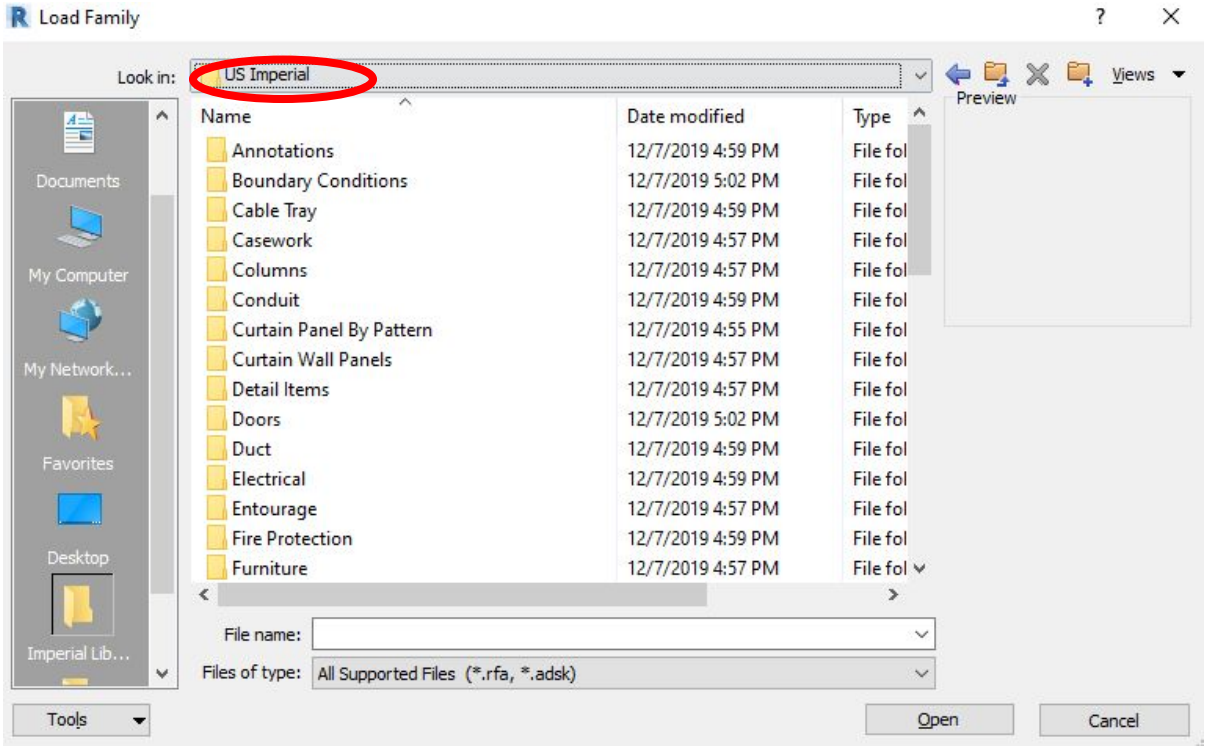
Placing Furniture

(I am only going to show one example)

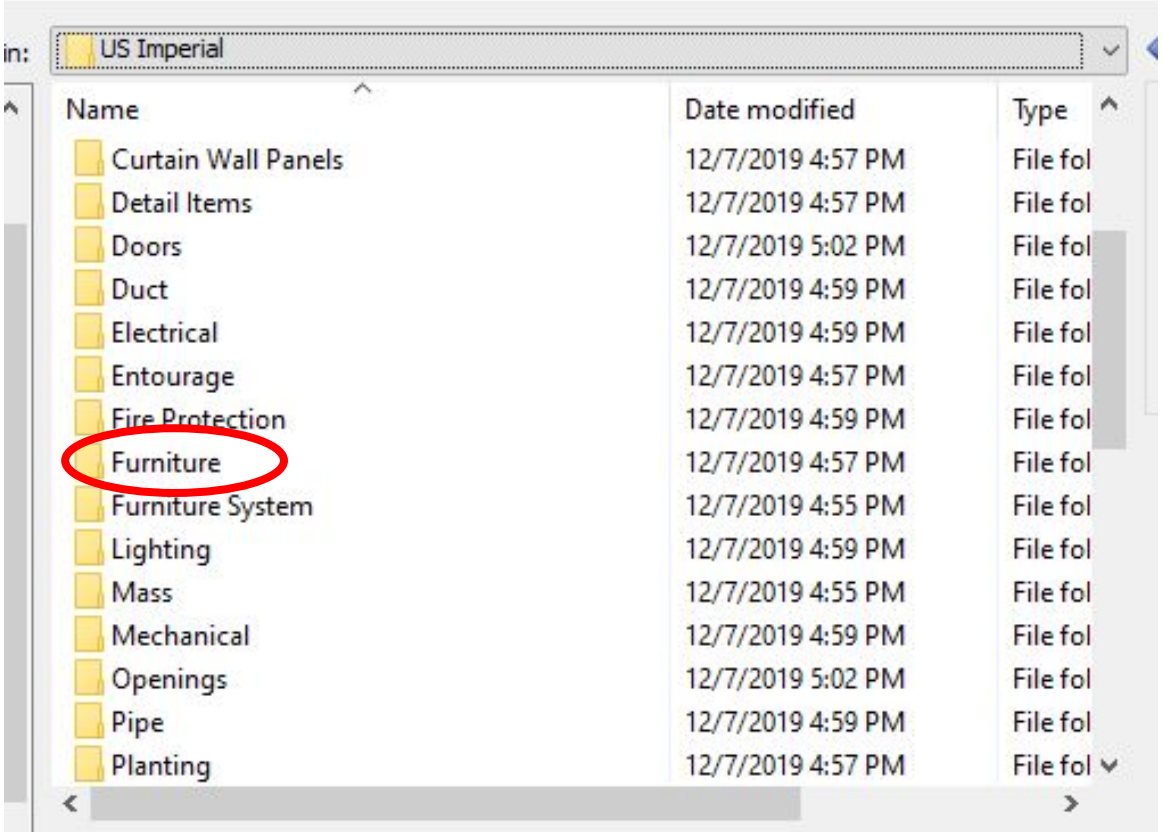
Click *"Component"* & *"Place a Component"*



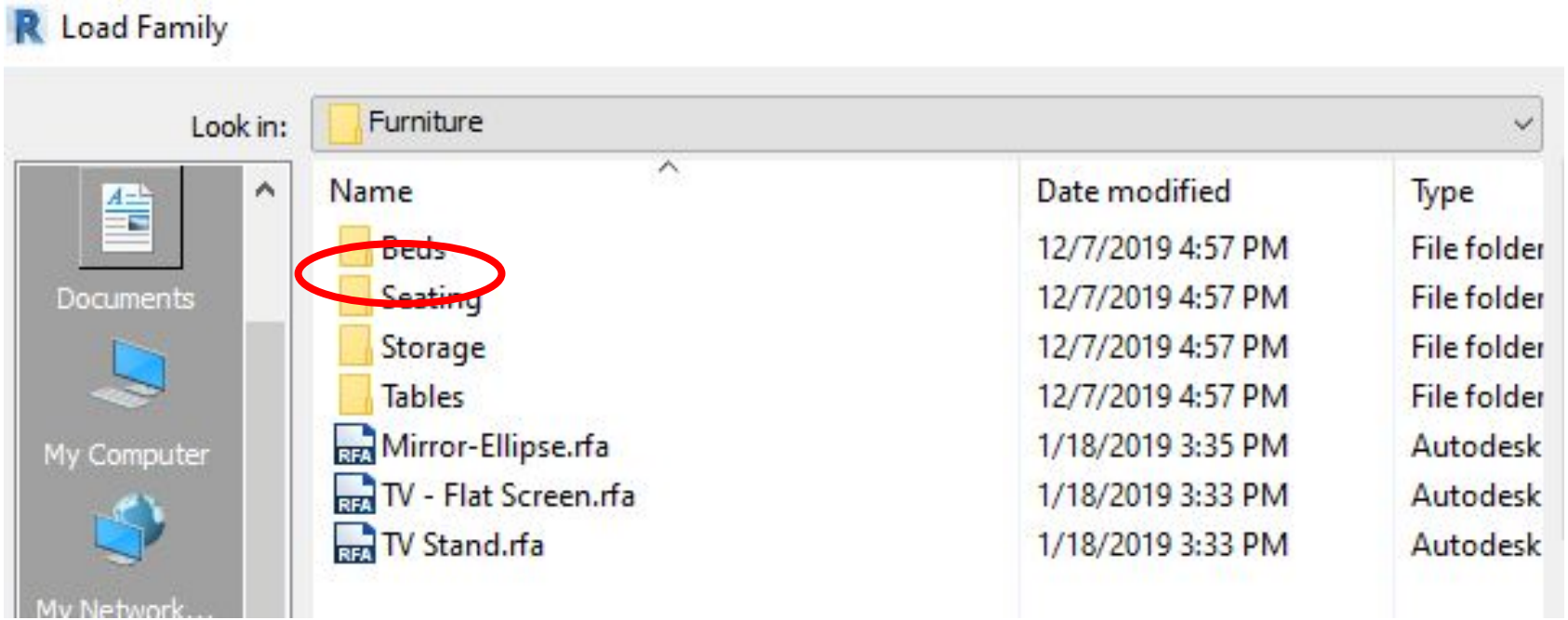
No *"Beds"* in Component so *Load Family* & go to *"US Imperial" folder*



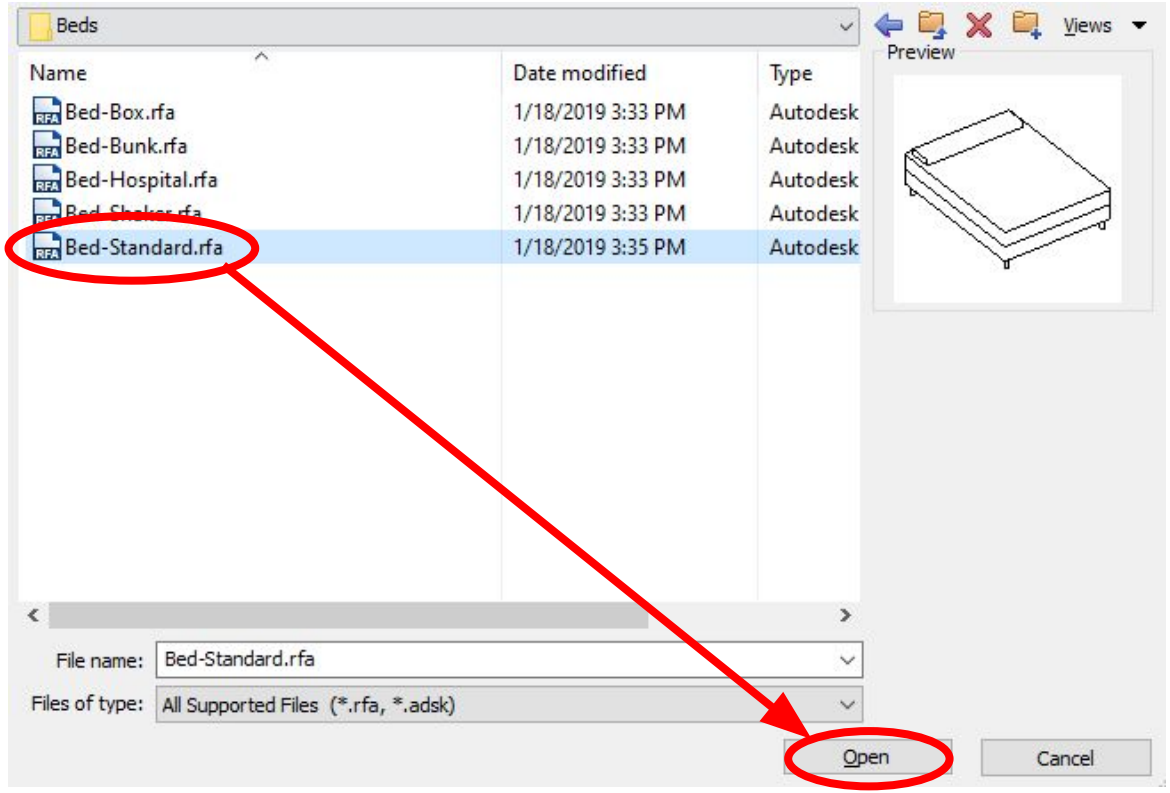
Navigate to
"Furniture"
Folder



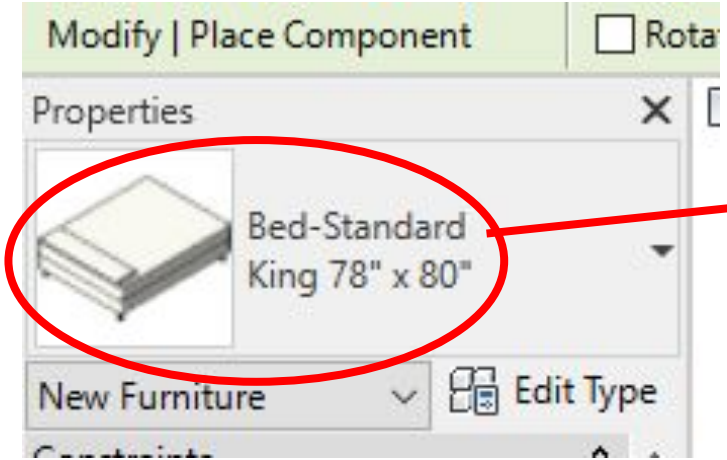
Navigate to *"Beds" Folder*

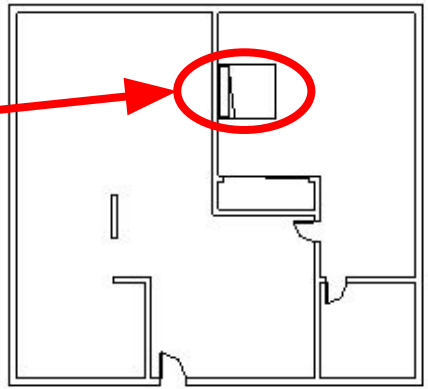


Choose *"Bed-Standard.rfa"* & Click *"Open"*



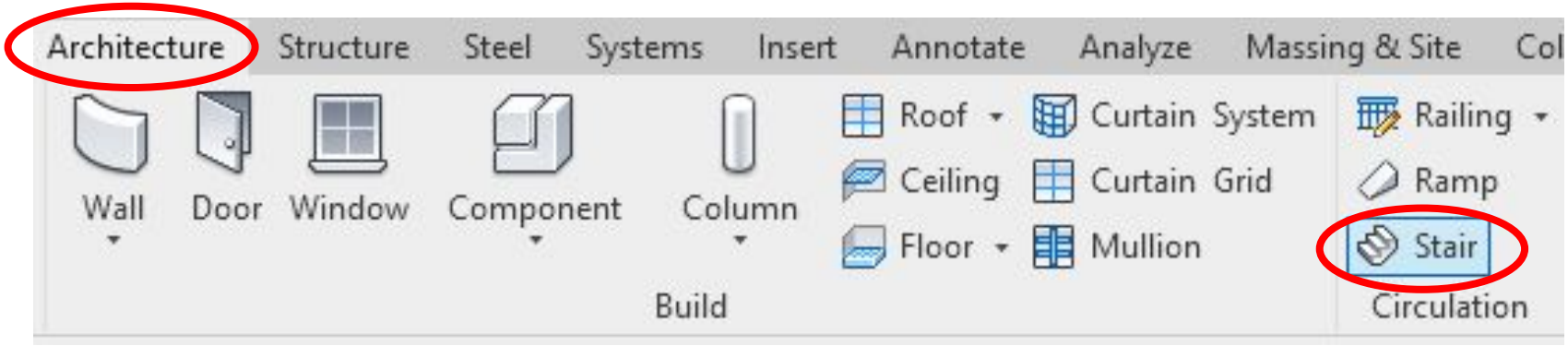
Choose King Bed and *Place* onto Floor Plan



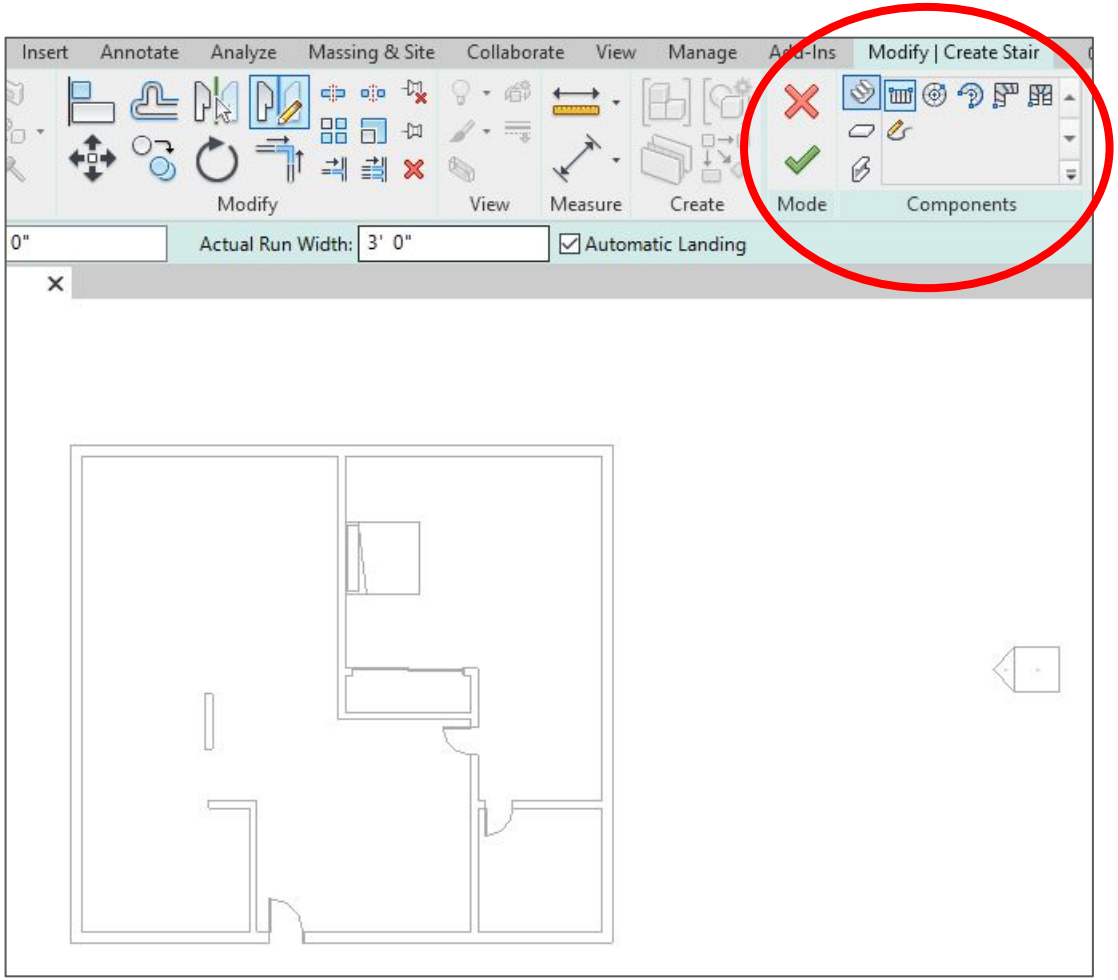


Create Stairs

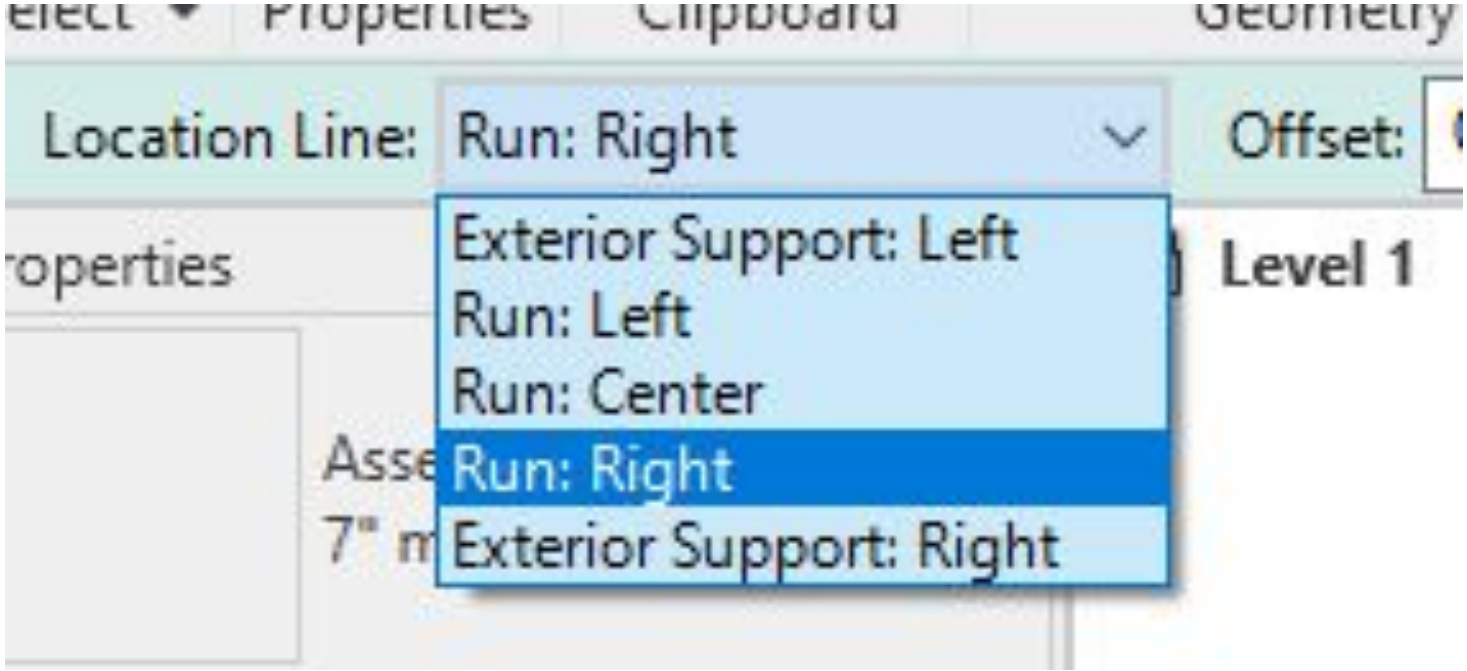
Choose the *"Stair"* Option Under *Circulation*



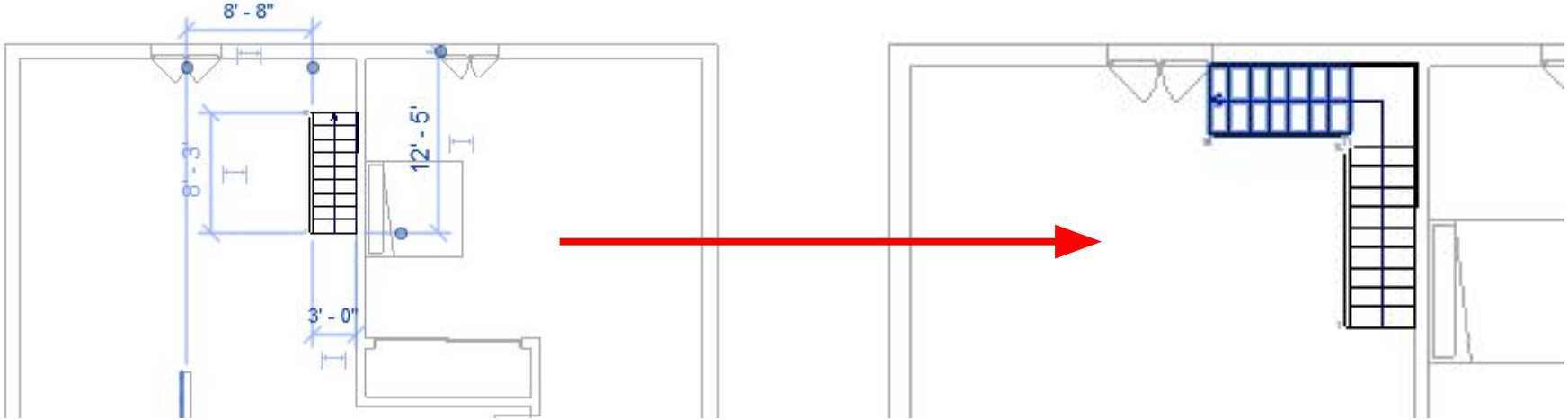
To Create L-Shape Stair:
"Modify | Create Stair"
Mode & Leave the default
"Straight Stair"



Change *"Location Line"* to *"Run Right"*
(for this specific case)



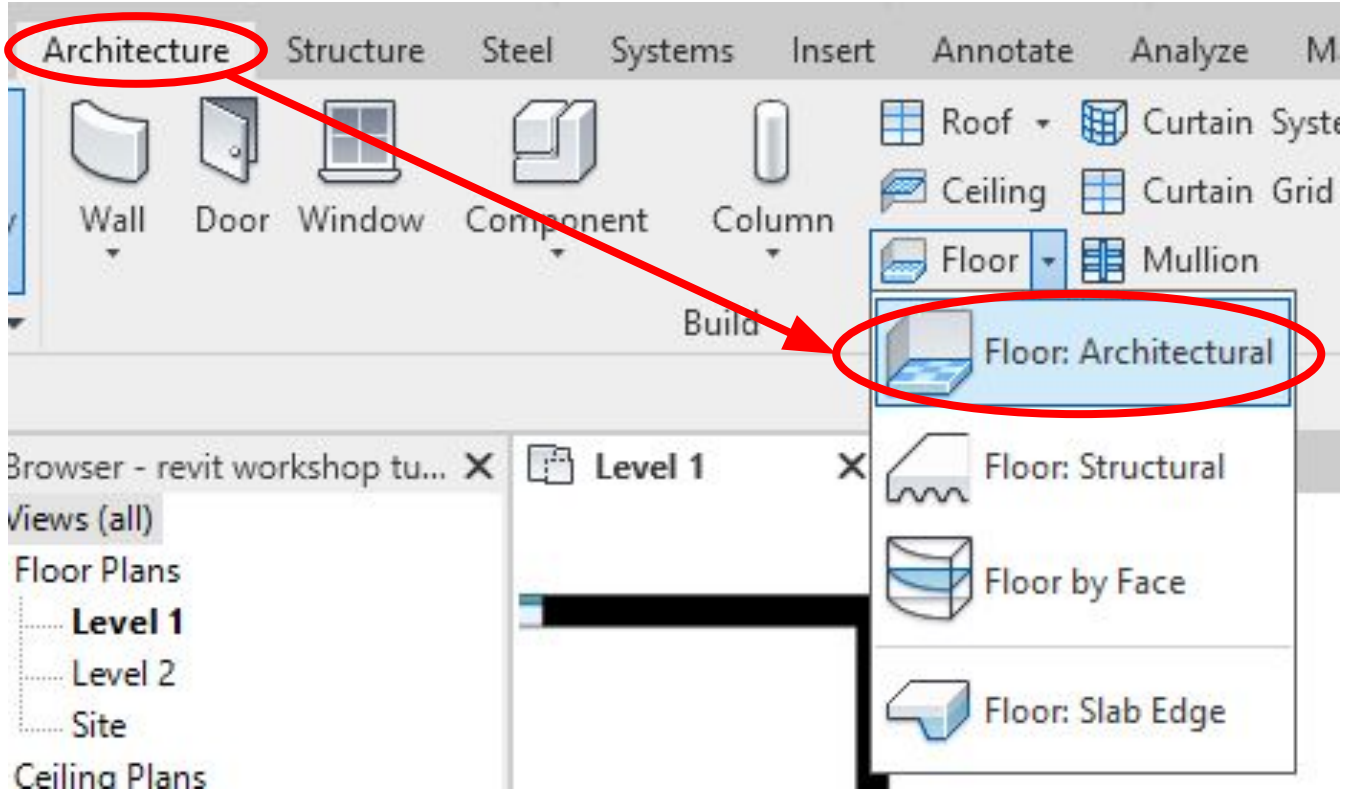
Draw *two vertical stairs* (both times starting from the walls) to form the L-Shape Stairs



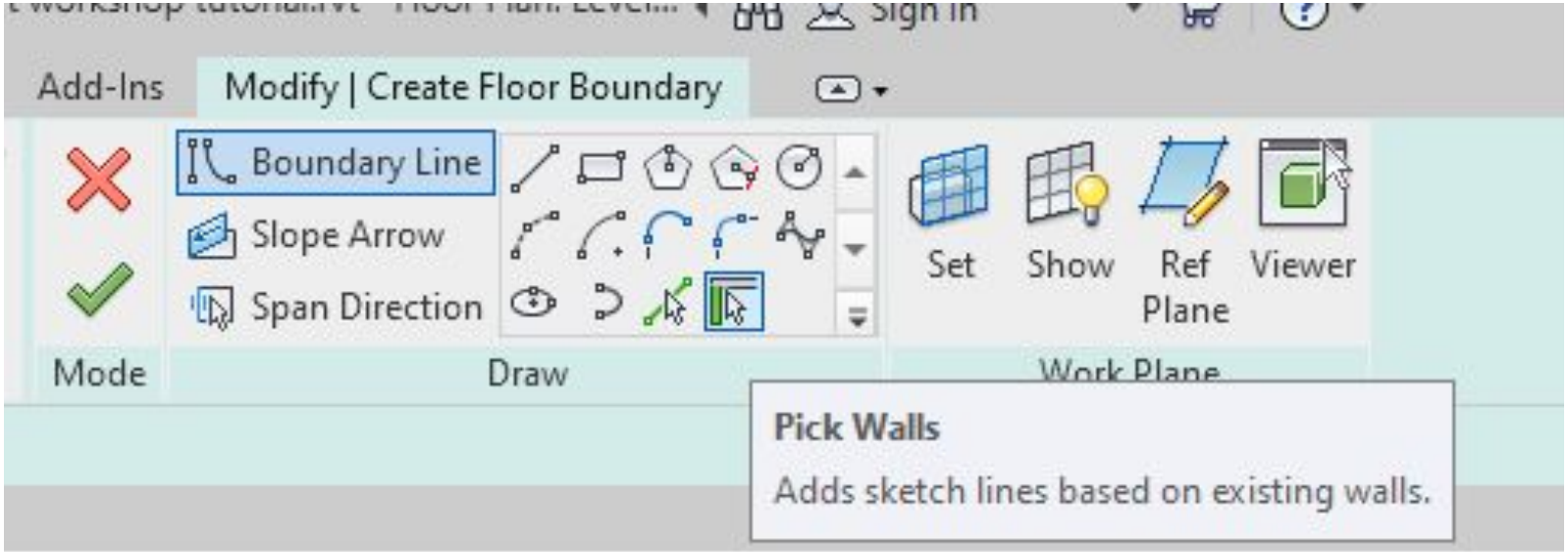
Click the *"checkmark"* to confirm your creation

Create Floors

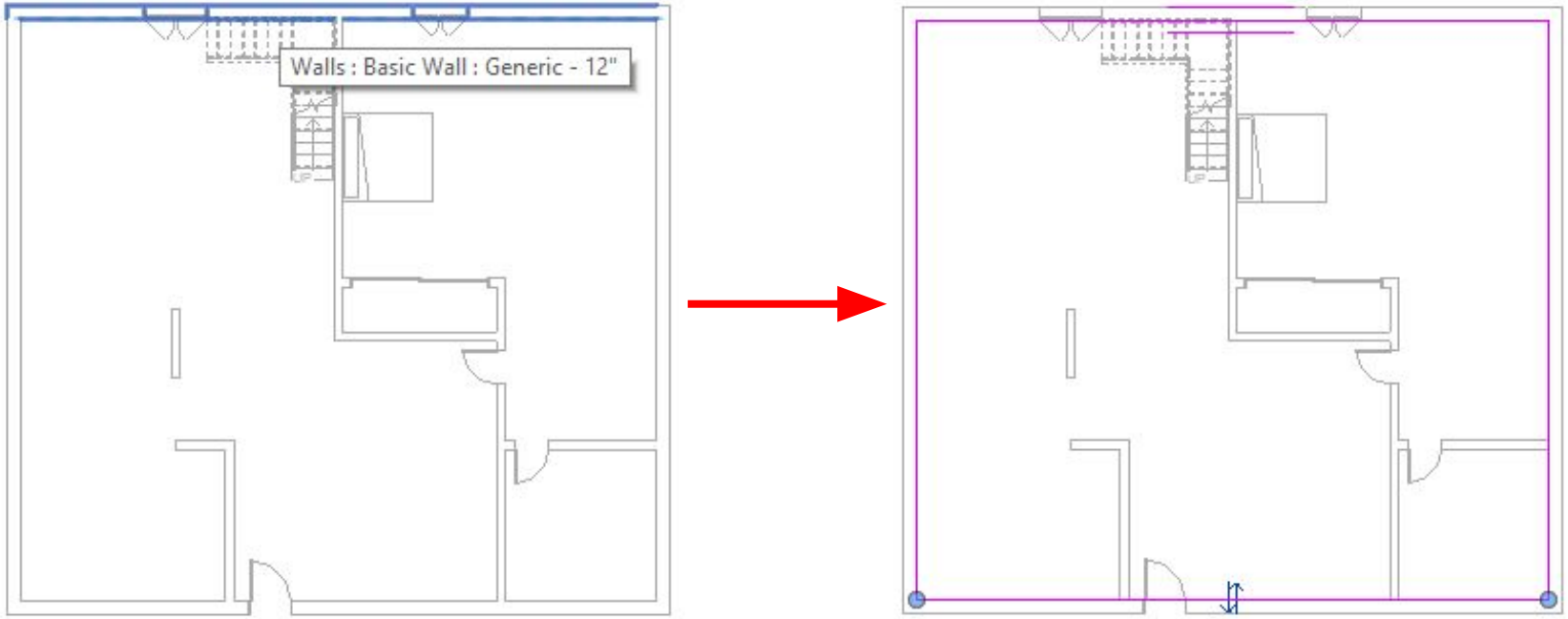
Choose *"Floor Architectural"*



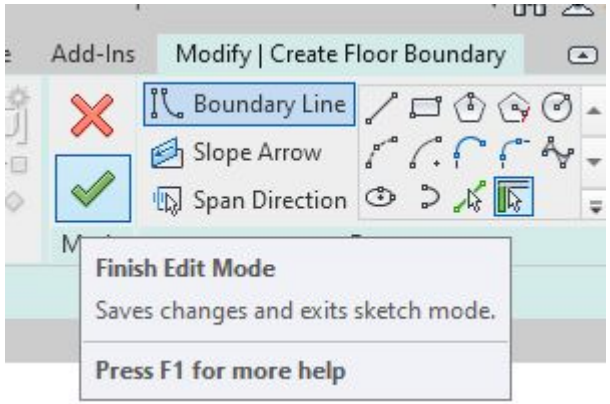
Choose the *"Pick Walls"* option to draw your floor

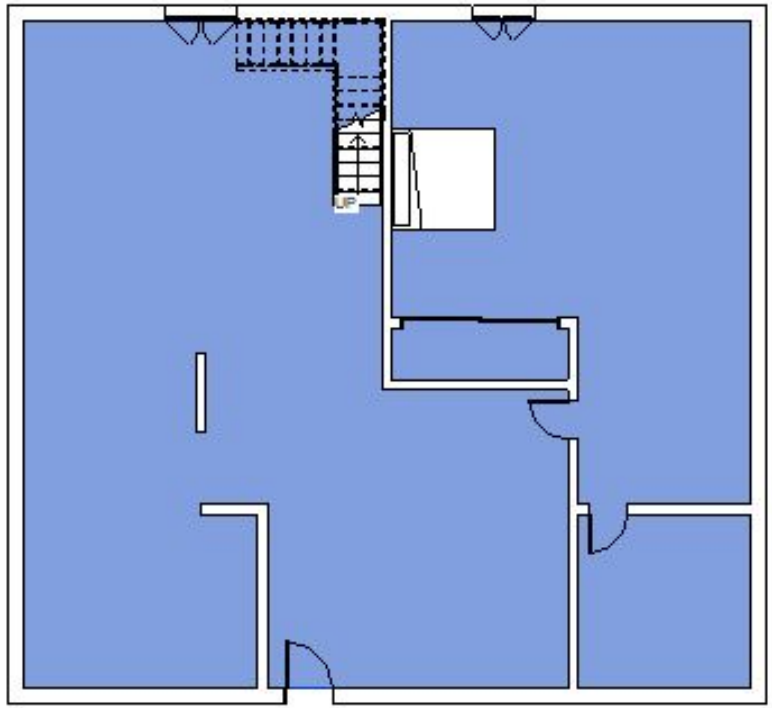


Hover over wall to select it & when selected it should be *pink*



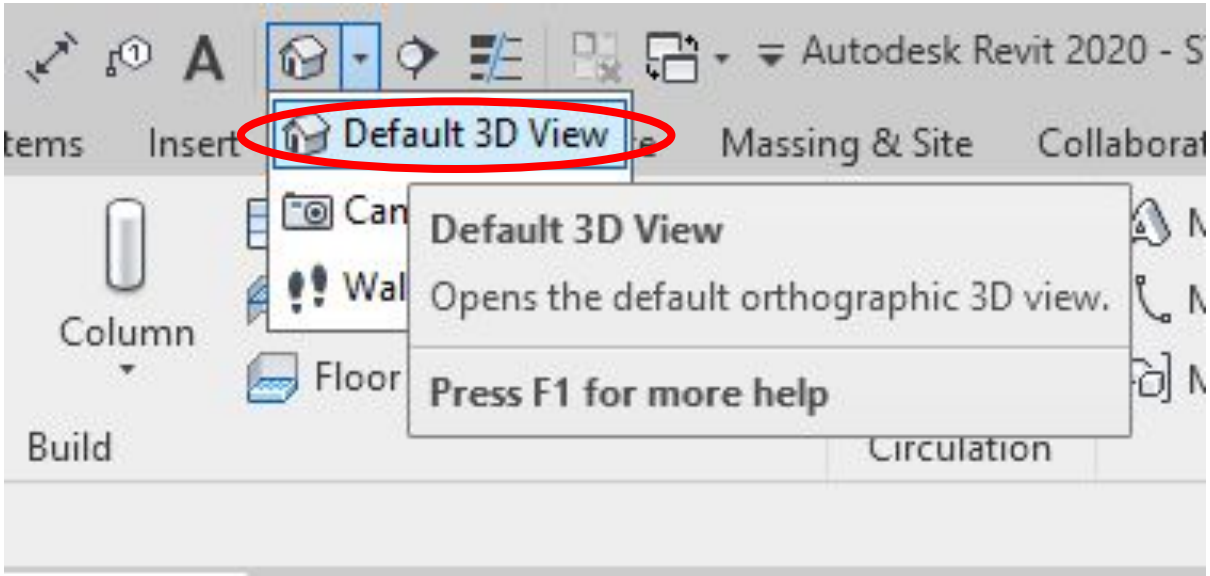
Confirm your creation & see the successful *result*!



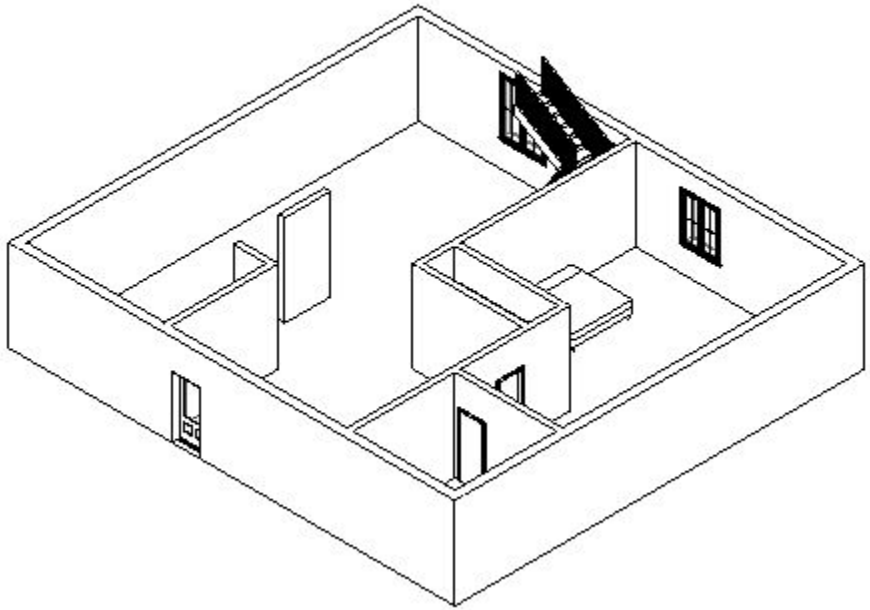


3D-Result!

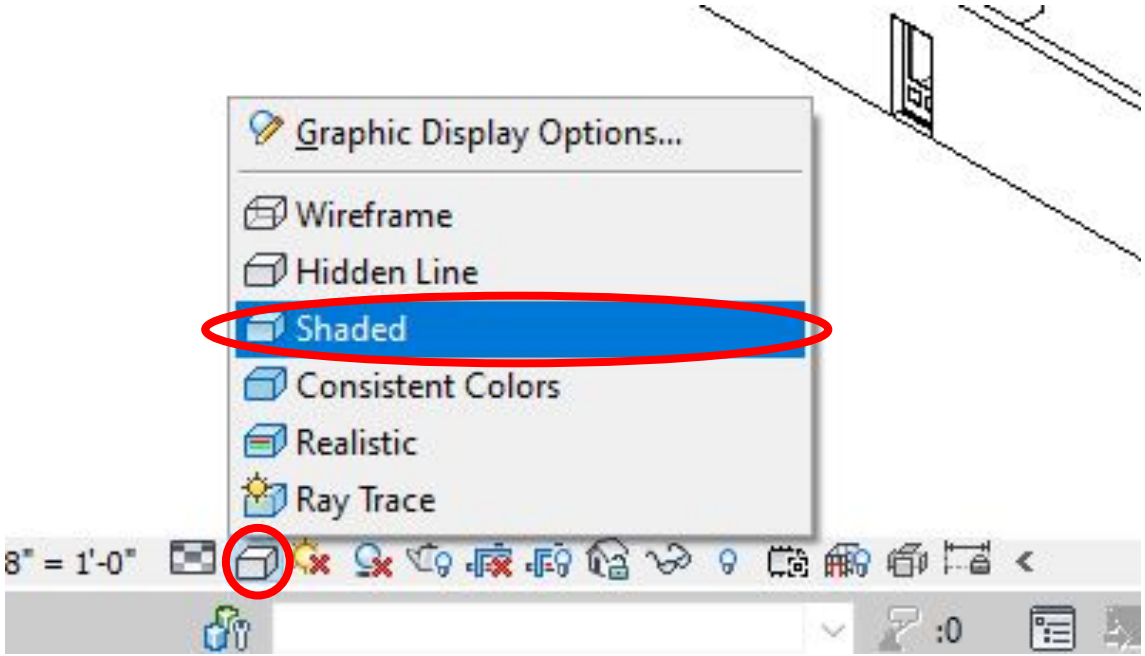
Go to *3D View*


Autodesk Revit 2020 - S
tems
Insert
Default 3D View
Massing & Site
Collaborat
Can
Wal
Floor
Column
Build
Default 3D View
Opens the default orthographic 3D view.
Press F1 for more help
Circulation

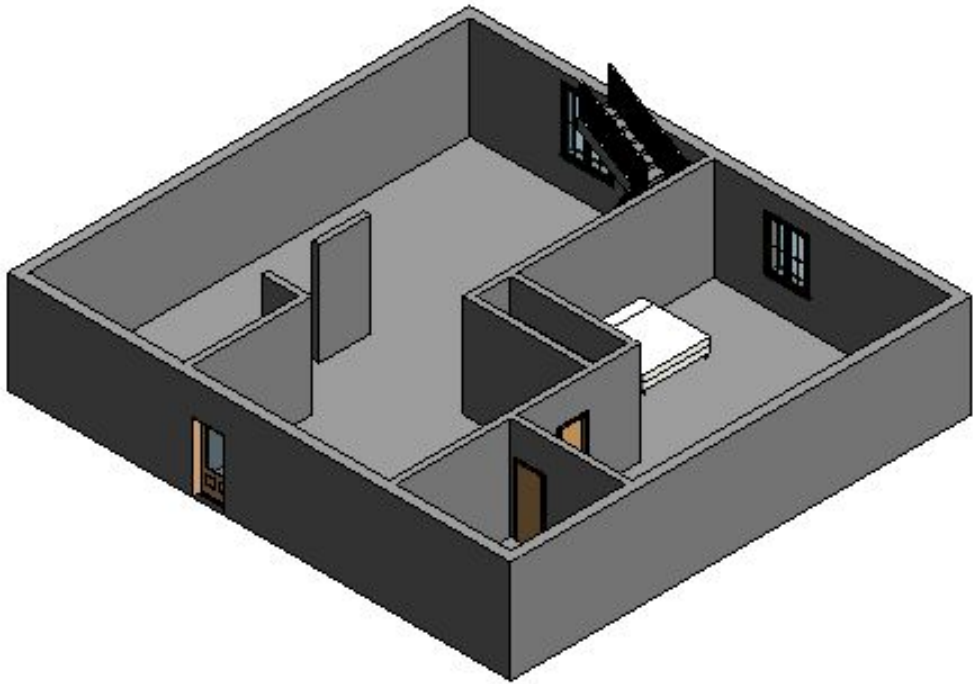
Default 3D View (*hidden lines*)



If you like to see more detail: change the *visual style*!



New Visual Style: *Shaded*



More Resources

- https://www.revitcity.com/index.php **(download cool furniture here!)**
- Go to **YouTube** to learn more about Revit!