

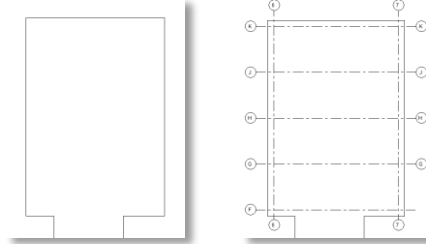
Starting a New Project : Creating Grids

05.02

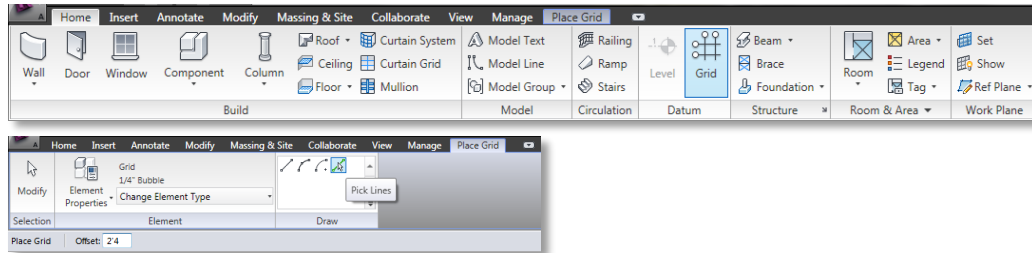
File : Open File *i_rac_essentials_grids.rvt*

Overview : The building envelope is **50' 8" x 72' 8"**
 We will be adding the column grids as follows:

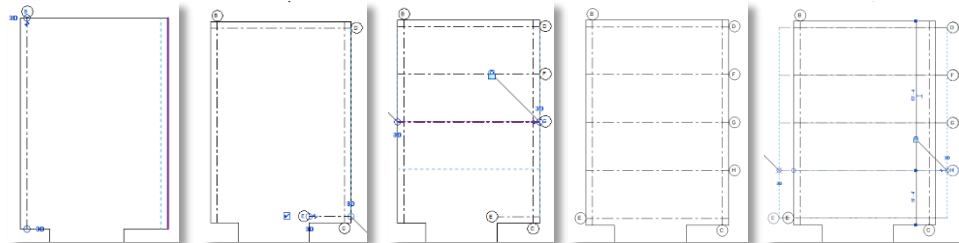
All first column grids are 2' 4" from the envelope
The horizontal grids are 4 bays @ 17' each
The middle vertical bay is a clear span of 48'



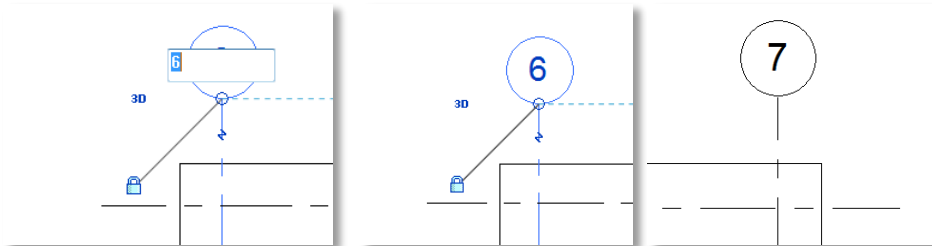
Place Grid : Select **Home > Grid**



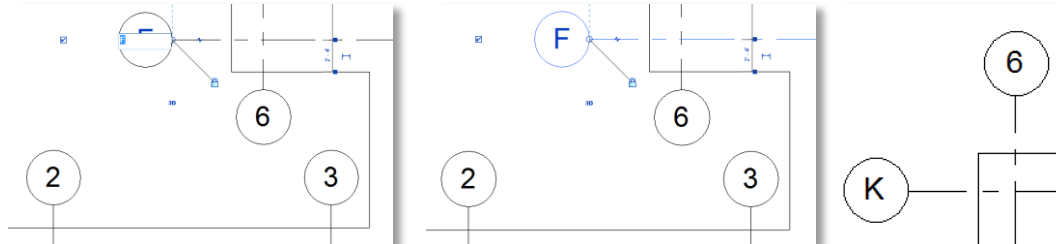
Place Grid : Select **Pick Lines** and set the **offset to 2'4"**. Select all 4 edges. Set **offset to 17'** and add horizontal grids



Rename : Rename the vertical lines to be the number **6 & 7**



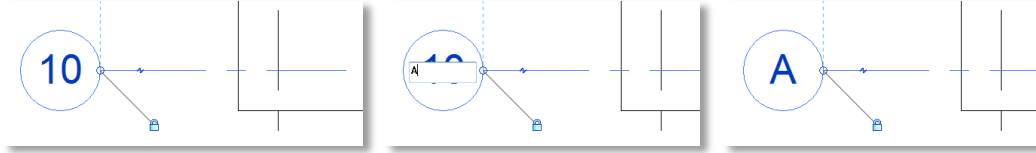
Rename : Rename the horizontal grid lines **F, G, H, J, K** starting from the bottom up. Skip the letter "I"



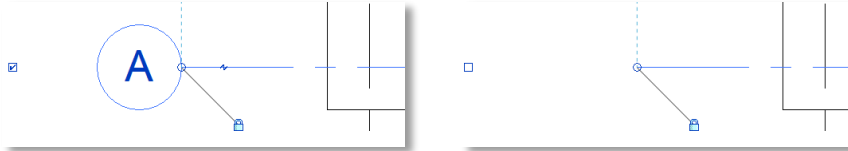
Starting a New Project : Editing Grids

05.03

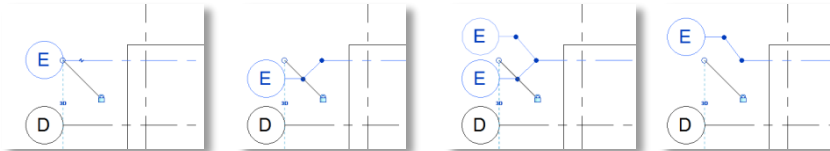
Edit Name: Select the Grid Label. Change the label from "10" to "A"



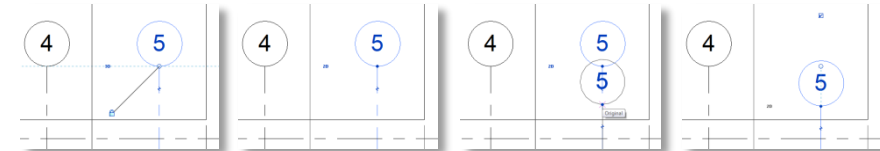
Display: You can toggle the bubble display by checking off or on the box.



Elbow Offset: As with Level Bubbles you can add an elbow to a column grid. Click on the small tilde ~ and add an elbow offset. Drag the grips to shift it over to be readable



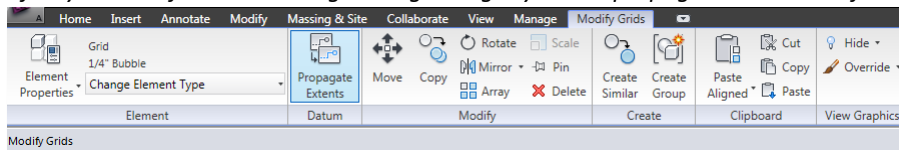
2d vs. 3d: 3d - all grids align. Toggle to 2d to set "View Specific Extents" to offset the alignment. Move bubble



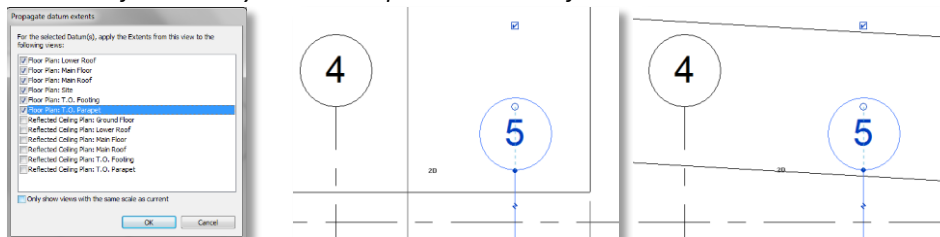
Bubble Gap: You can change the element style to "Bubble Gap" and the line will not display across the bldg



Propagate: After you have finished making editing changes you can propagate these modifications to other views



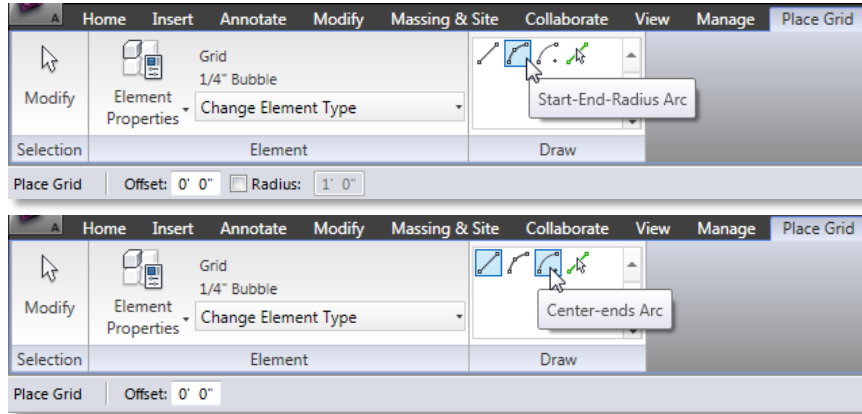
Select all of the views you wish to update. The modifications will now be visible in other views.



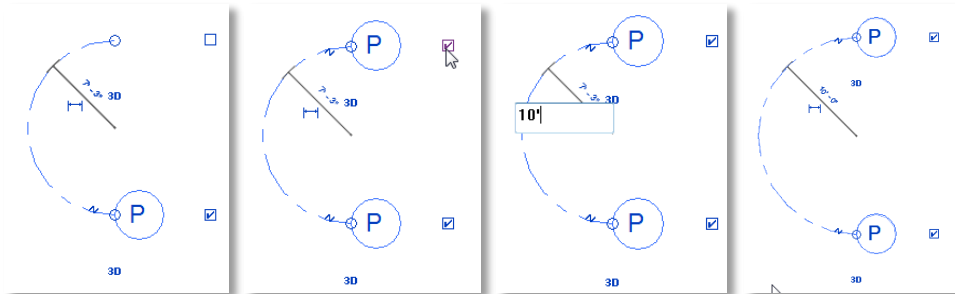
Additional Grid Types

05.04

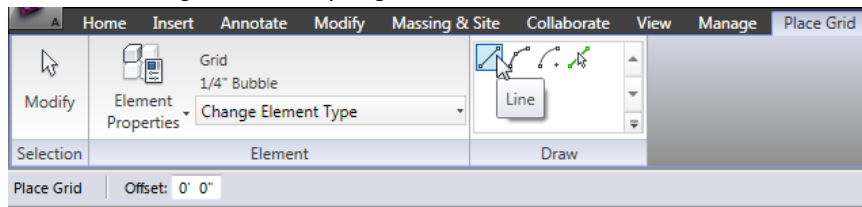
Arc Grids: Select **Home > Grid > Start-End-Radius Arc** or **Center-ends Arc**



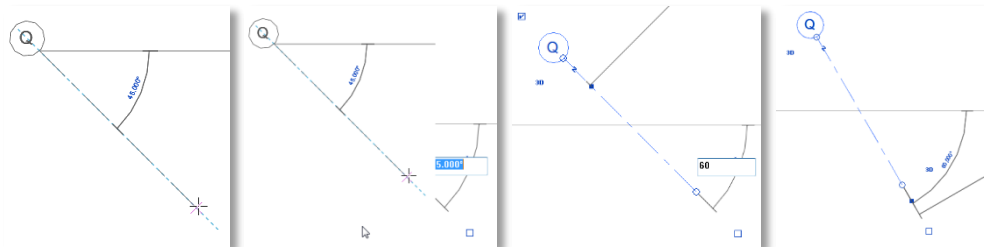
Editing Arcs: You can **toggle** the bubble display or **edit** the radius of the Arc



Line: You can draw a grid line at any angle



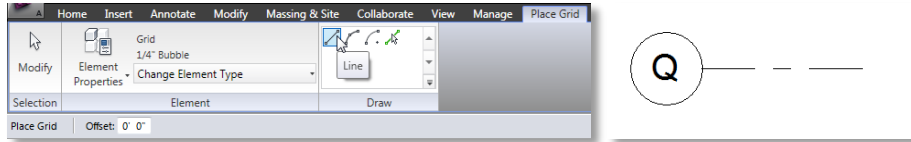
Editing Lines: You can **toggle** the bubble display or **edit** the angle of the Line



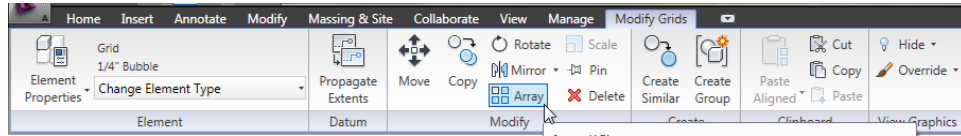
Creating a Column Grid Array

05.05

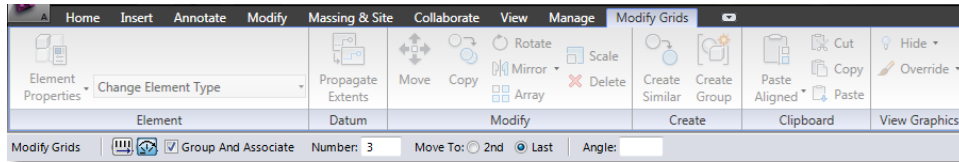
Line: Draw the first grid line using the **Line** option **Home > Grid > Line**



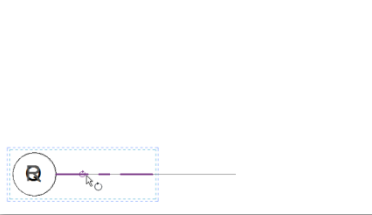
Array: Select the **Grid Line** then select the **Array** Command



Radial Array: Choose **Group and Associate**, leave the number at **3** and set move to **at Last**

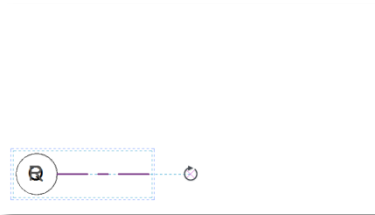


Array Steps: Select the grid line

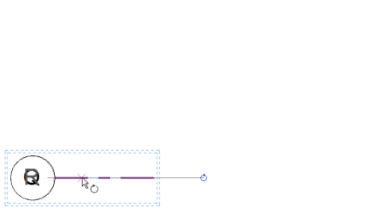


Select the array start point

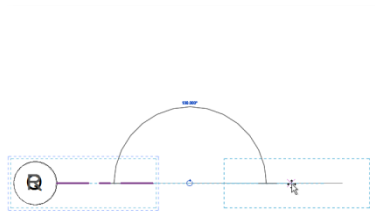
Drag and relocate the array center



Drag the array rotation to 180 degrees



Change the number of items from 3 to 7



The array automatically uses letters Q to R

