New York City College of Technology
Division of Continuing Education

Building Information Modeling with Revit 2014
Module 01
Take a Tour & Scavenger Hunt & Orient to View

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http://professorpaulking.wordpress.com/
http://openlab.citytech.cuny.edu/bim101-sp14/

http://students.autodesk.com/

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Day 01

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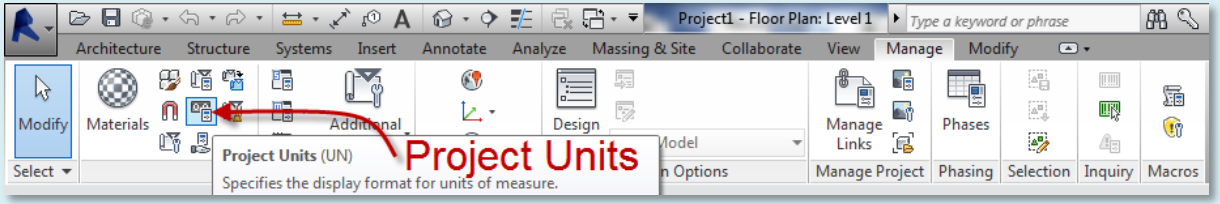
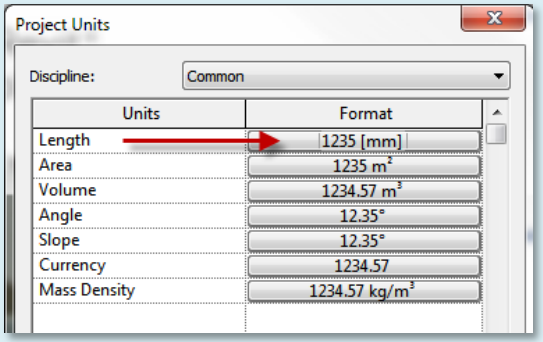
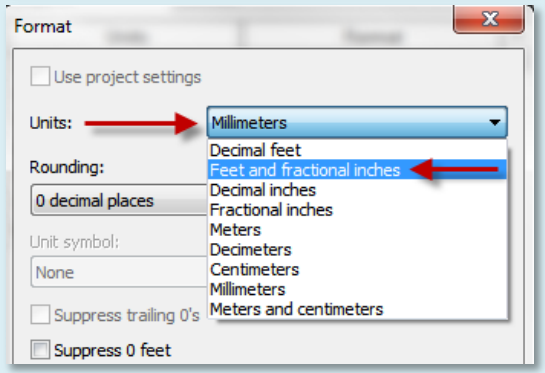
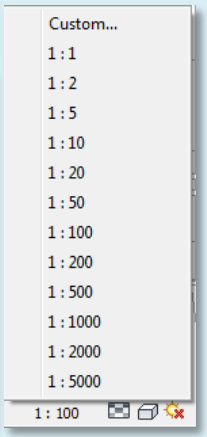
Manage - Project Units

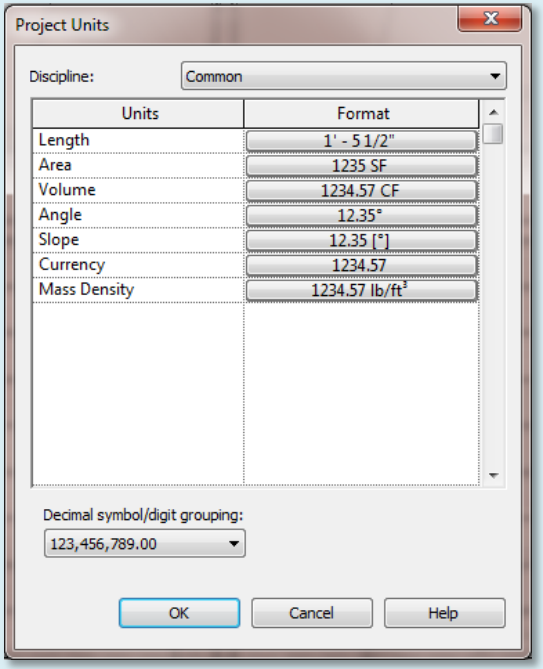


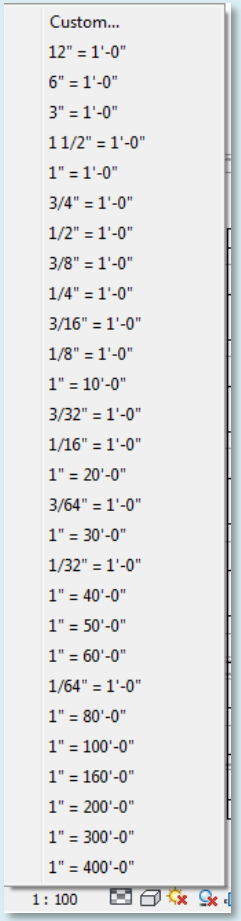
Changing project units from Metric to English











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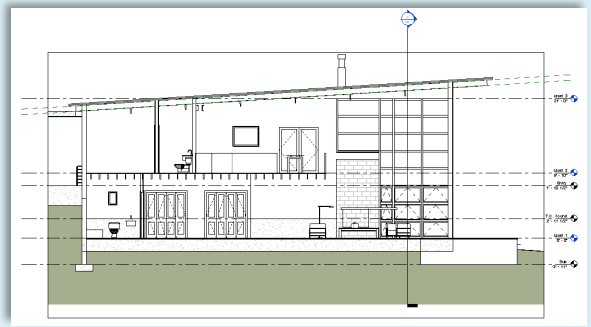
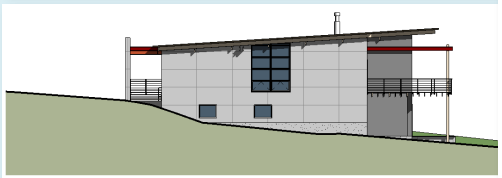
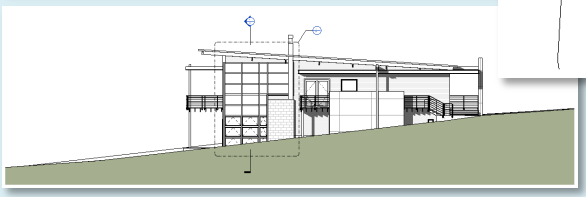
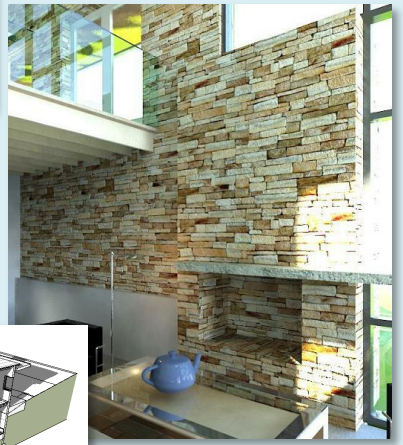
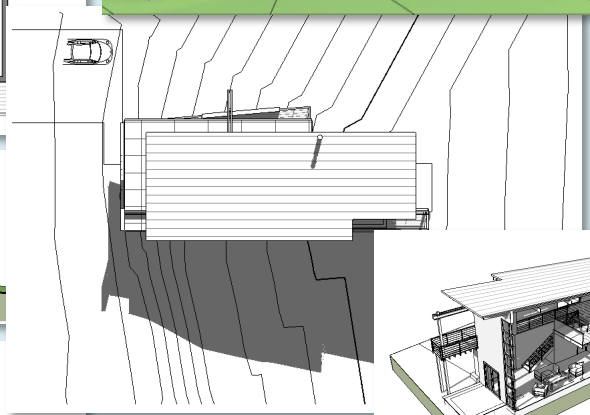
Lets take a project tour

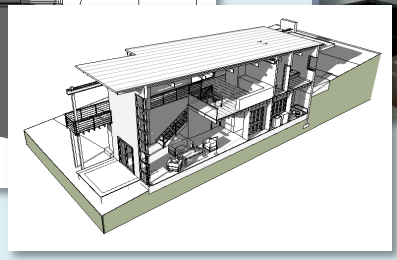












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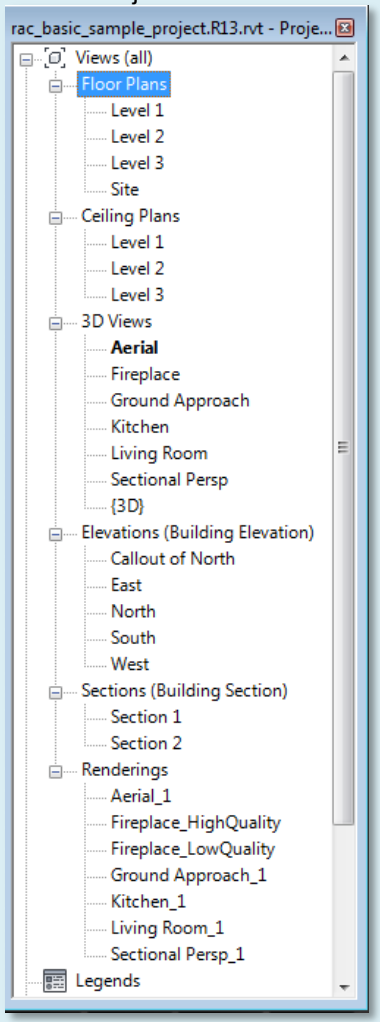
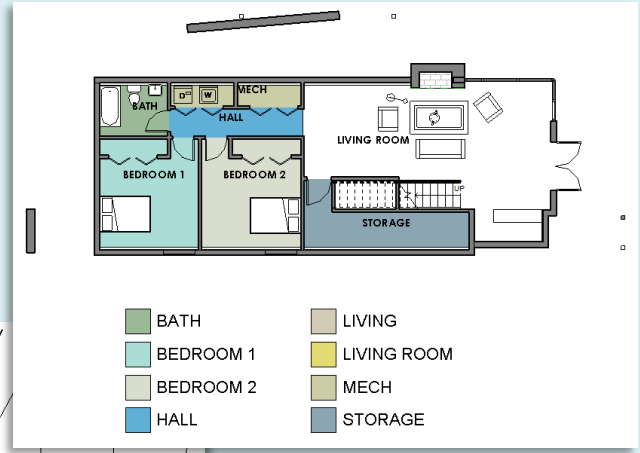
Project Browser – Floor Plans

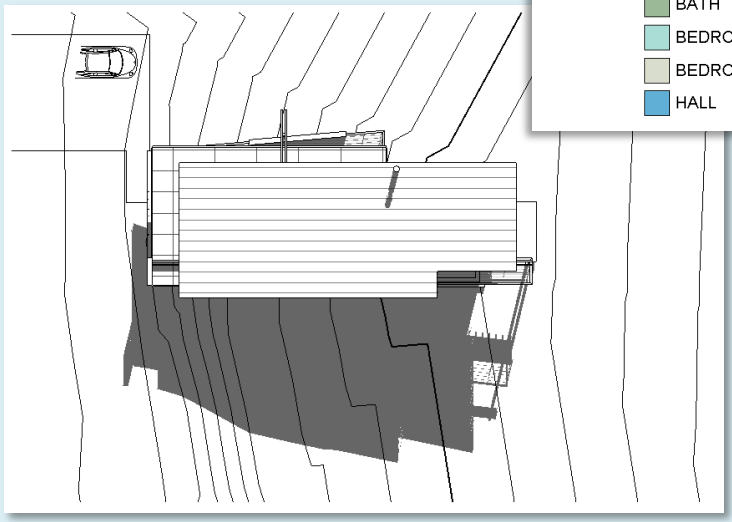
Project Browser



- **Level 1 & Siteplan**
- **Scales 1/8 = 1’-0**
- **Area Plan with Key**

- **Visual Styles**
  - **Hidden Line**





- **Site Plan with Shadows**

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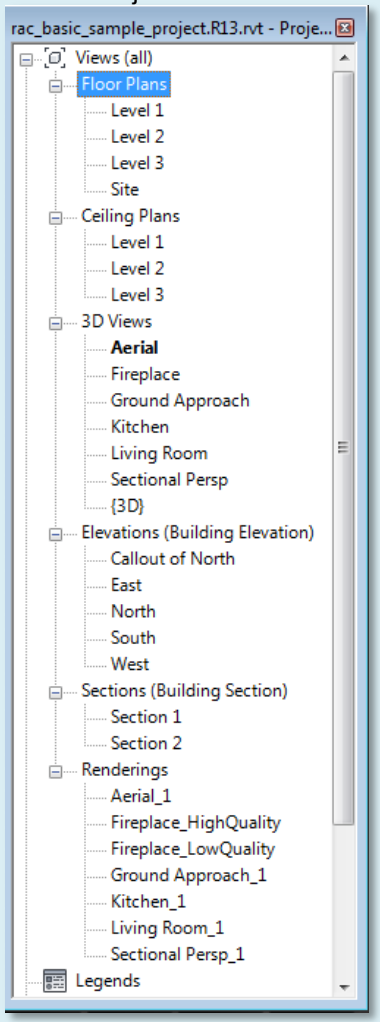
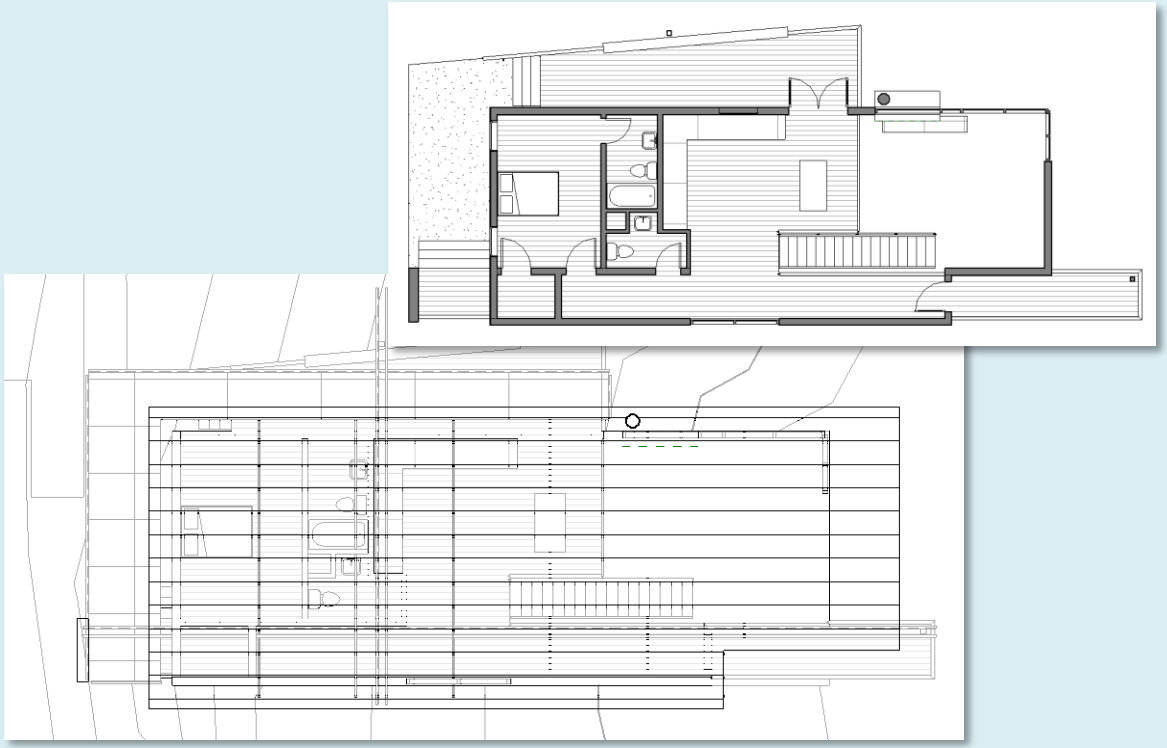
Project Browser – Floor Plans

Project Browser



- **Level 2 & 3 (roof)**
- **Scales 1/8 = 1’-0**
- **Visual Styles**
  - **Hidden Line**



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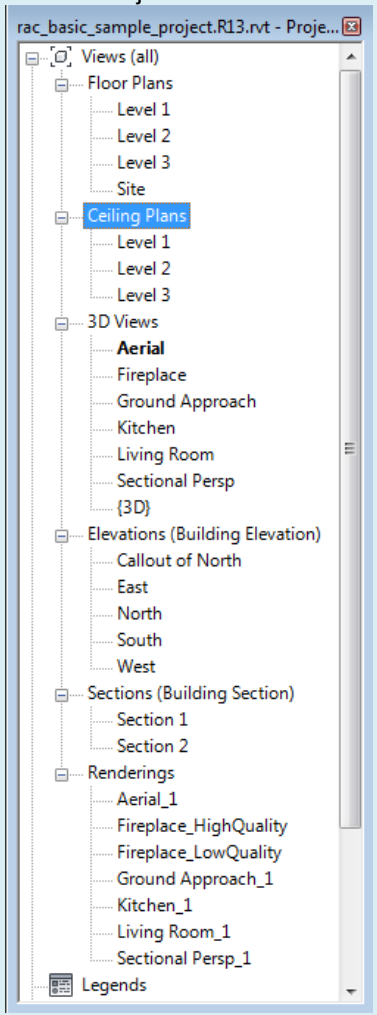
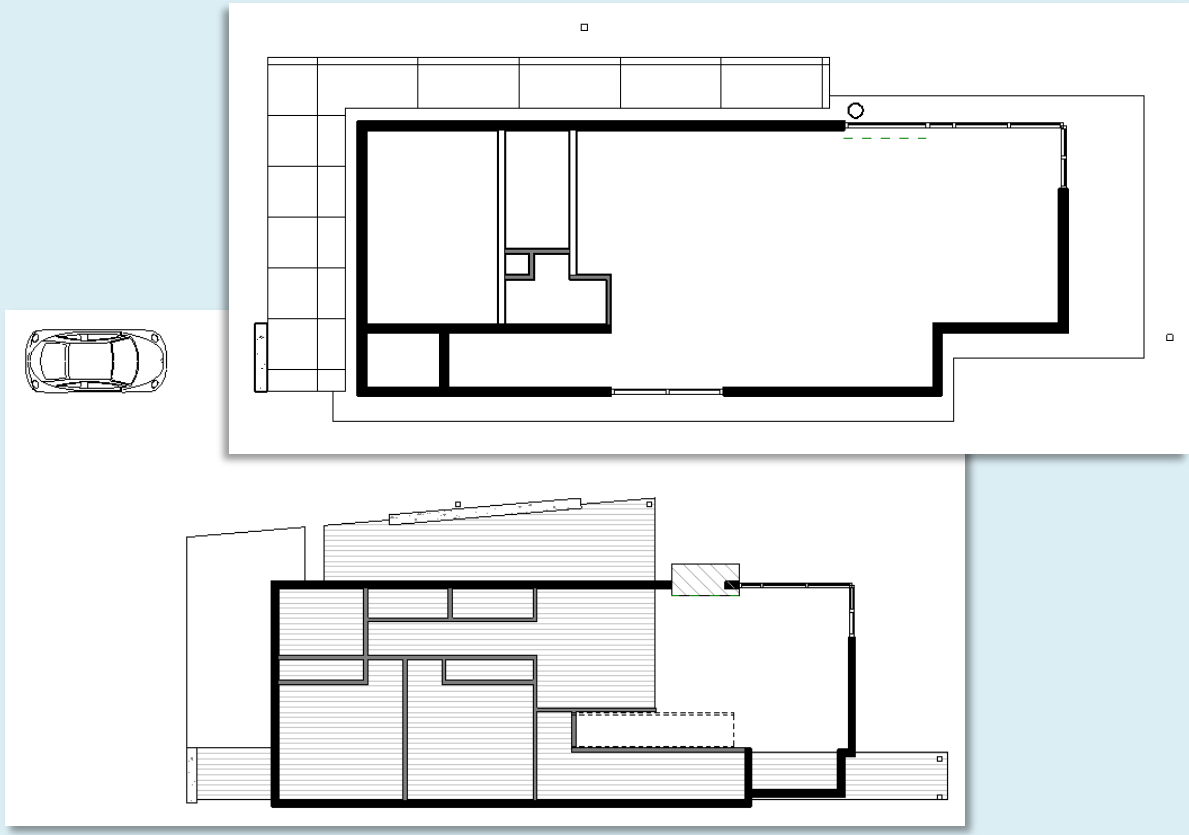
Project Browser – Ceiling Plans

Project Browser



- **Level 1 & 2**
- **Scales 1/8 = 1’-0**
- **Visual Styles**
  - **Hidden Line**



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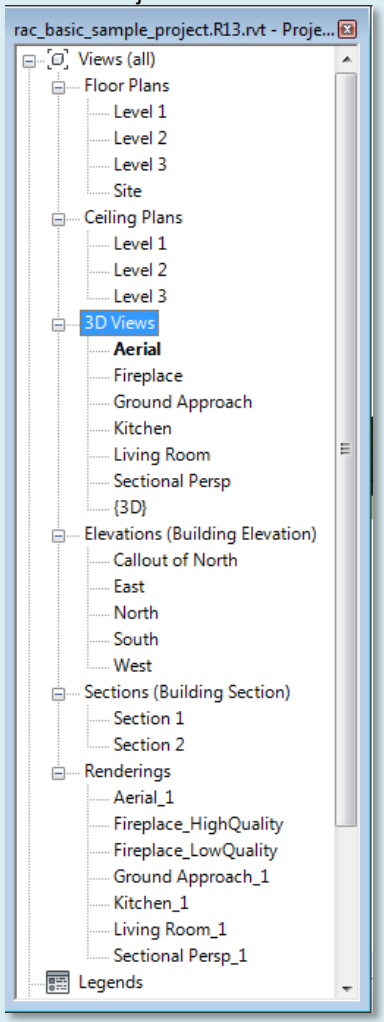
Project Browser – 3D Views (perspective)

Project Browser



- **Aerial & Ground Approach Perspective Views**
- **Visual Styles**
  - **Realistic & Shaded with Edges**

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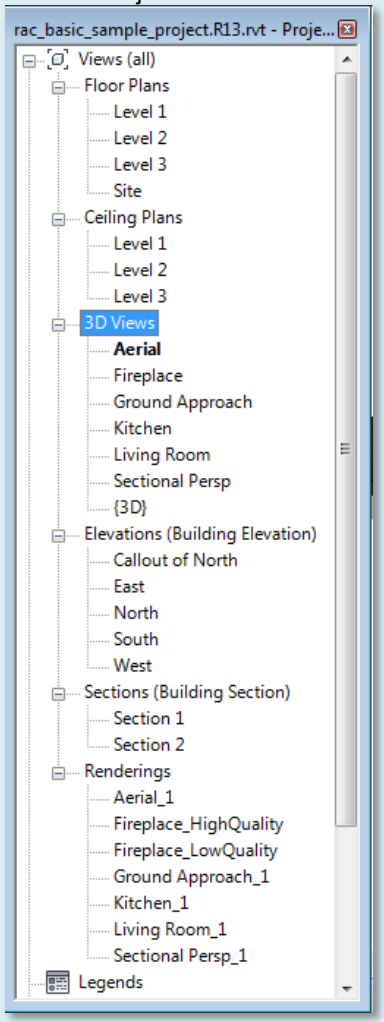
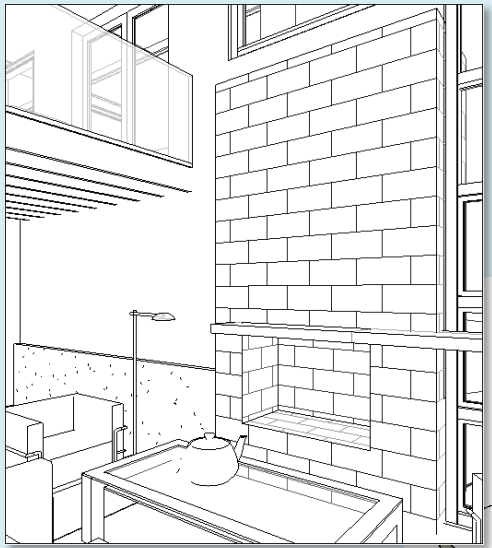
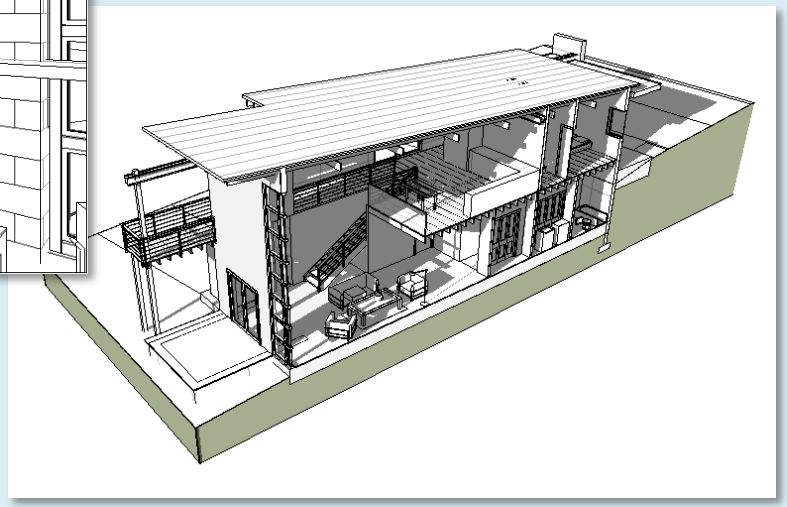
Project Browser – 3D Views (perspective)

Project Browser



- **Fireplace and Section Perspective Views**
- **Visual Styles**
  - **Hidden Line & Hidden Line with Shadows**





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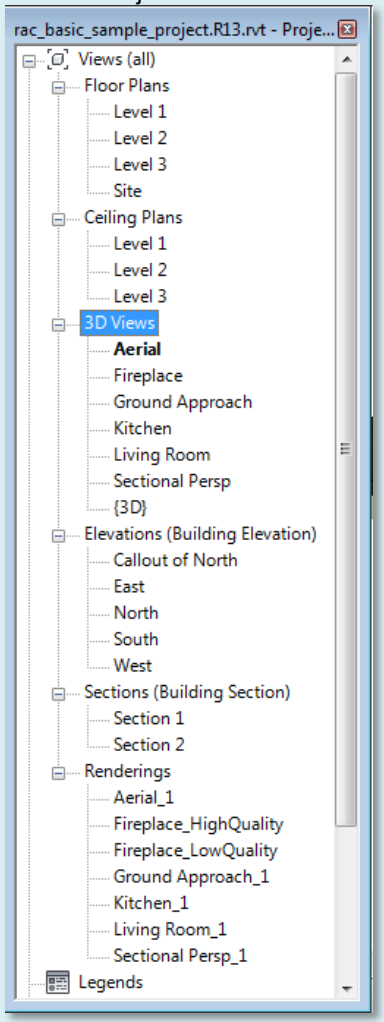
Project Browser – 3D Views (perspective)

Project Browser



- **Fireplace and Kitchen Perspective Views**
- **Visual Styles**
  - **Realistic & Shaded with Edges**

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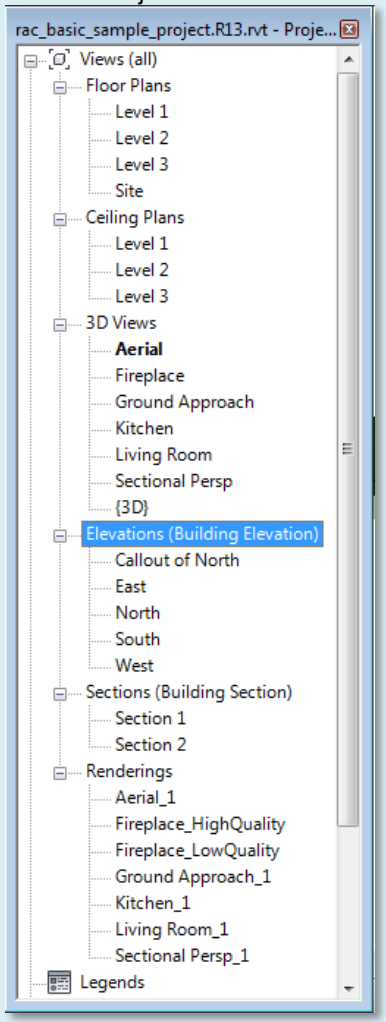
Project Browser - Elevations (Building Elevations)

Project Browser



- **South & North Elevations & Callout of North**
- **Scales 1/8 = 1’-0”, ¼” = 1’-0” & ½” = 1’-0”**
- **Visual Styles**
  - **Shaded with Edges & Hidden Line with Shadows**

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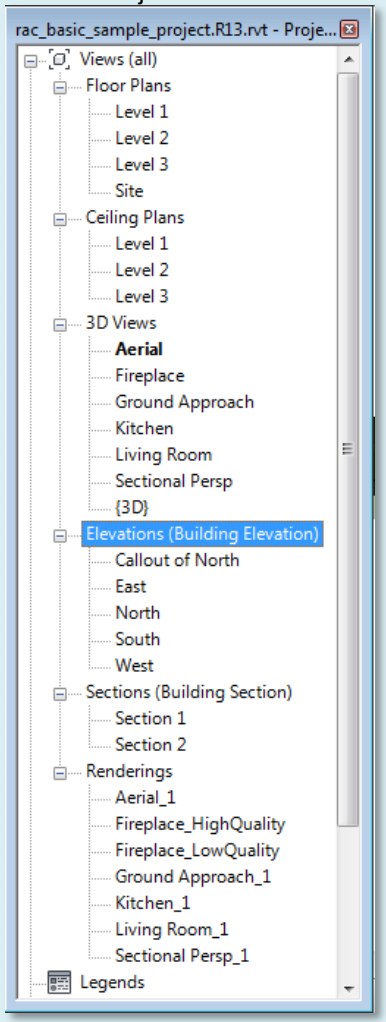
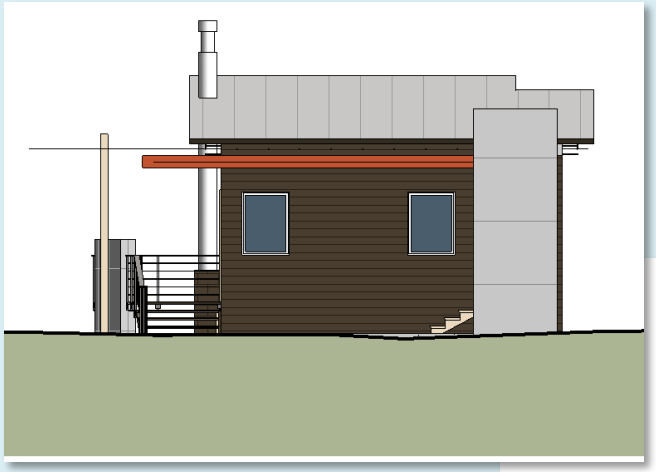
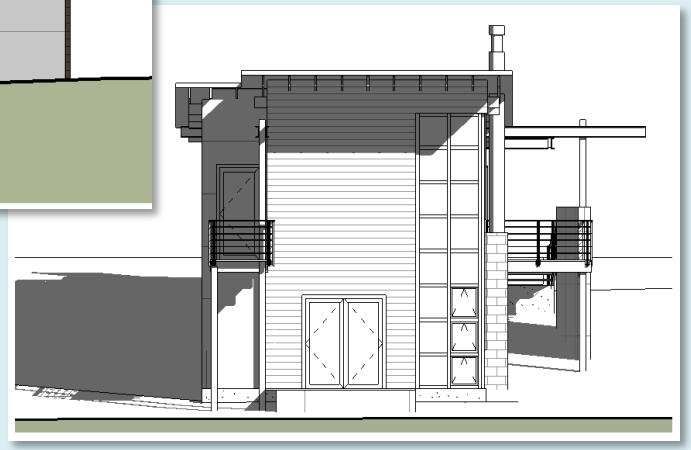
Project Browser – Elevations (Building Elevations)

Project Browser



- **East & West Elevations**
- **Scale 1/8 = 1’-0”**
- **Visual Styles**
  - **Shaded with Edges & Hidden Line with Shadows**





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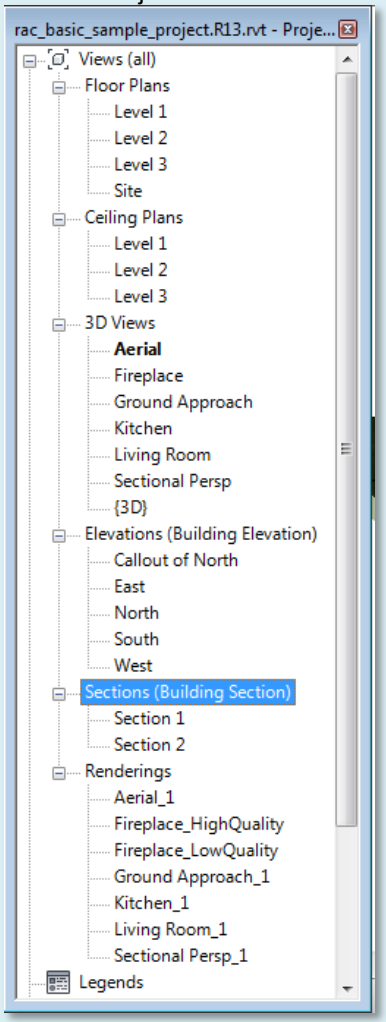
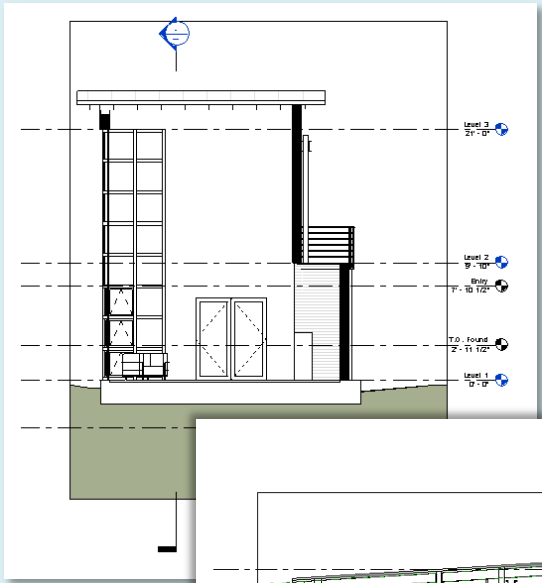
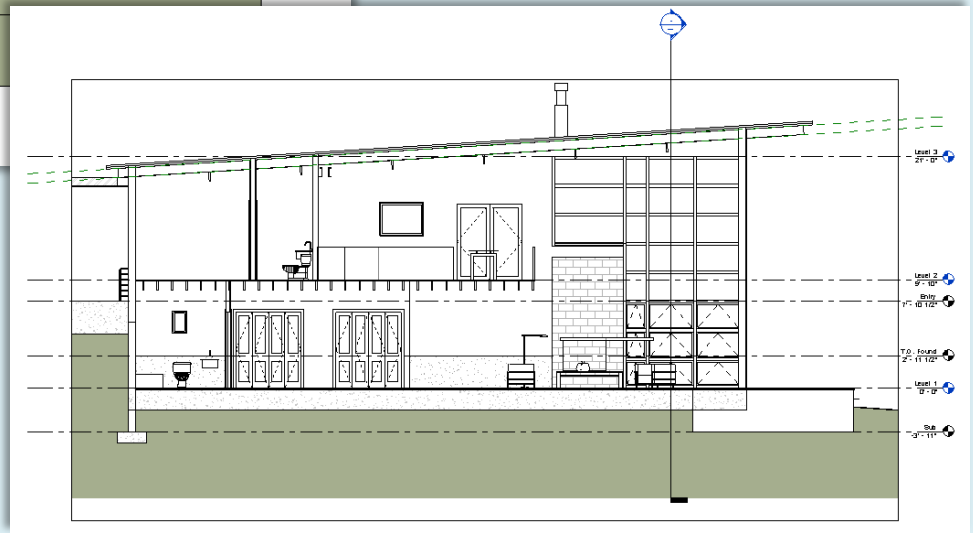
Project Browser – Sections (Building Sections)

Project Browser







- **Levels**
- **Section Markers**
- **Scale ¼” = 1’-0”**
- **Visual Style**
  - **Hidden Lines**

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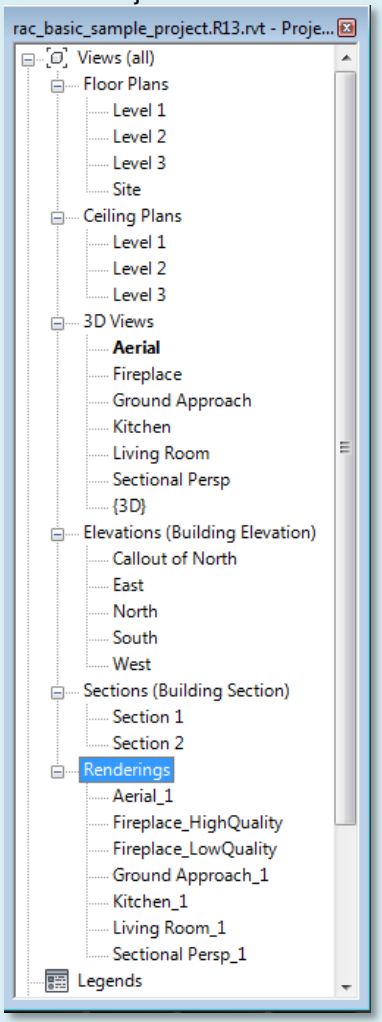
Project Browser – Renderings (raster images)

Project Browser



- **Section Perspective**
- **Ground Approach**

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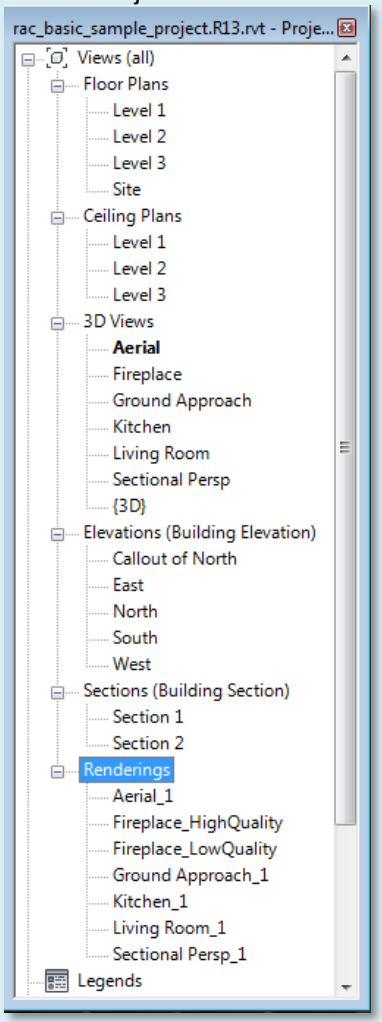
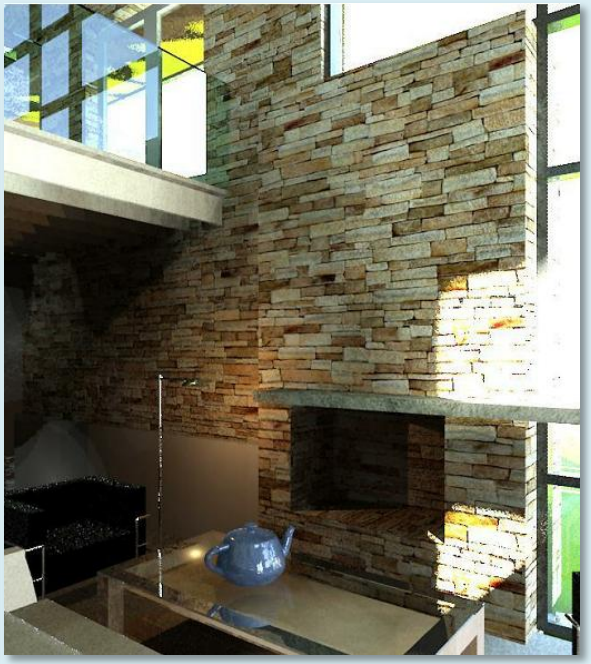
Project Browser – Renderings (raster images)

Project Browser



- **Realistic Renderings of the Fireplace**
  - **High Quality (brighter image)**
  - **Low Quality**



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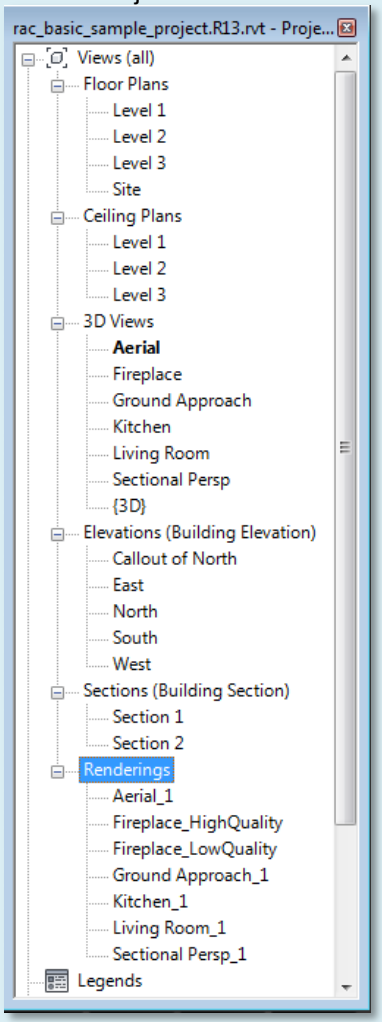
Project Browser – Renderings (raster images)

Project Browser



- **Kitchen on upper level**
- **Living Room below**

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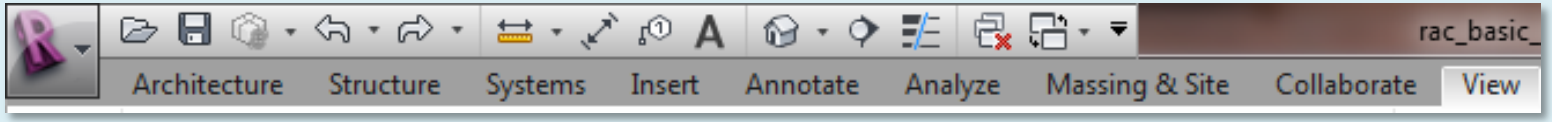
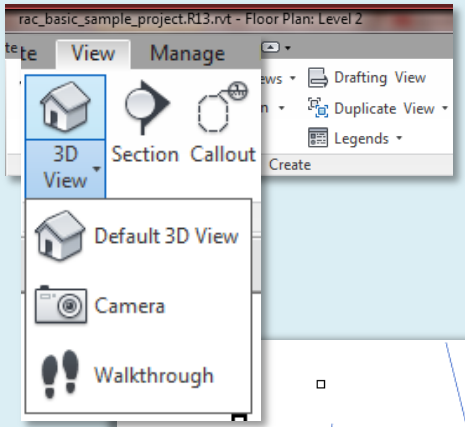
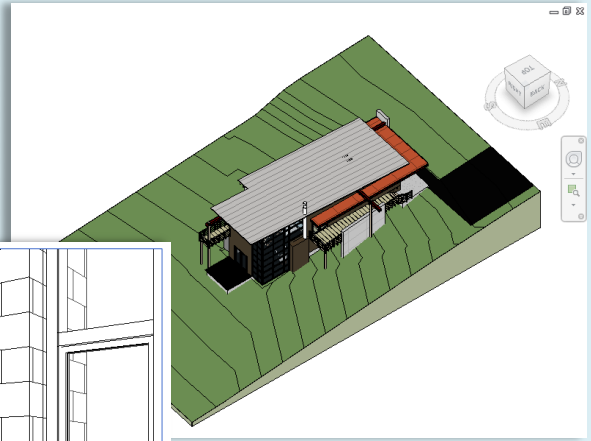
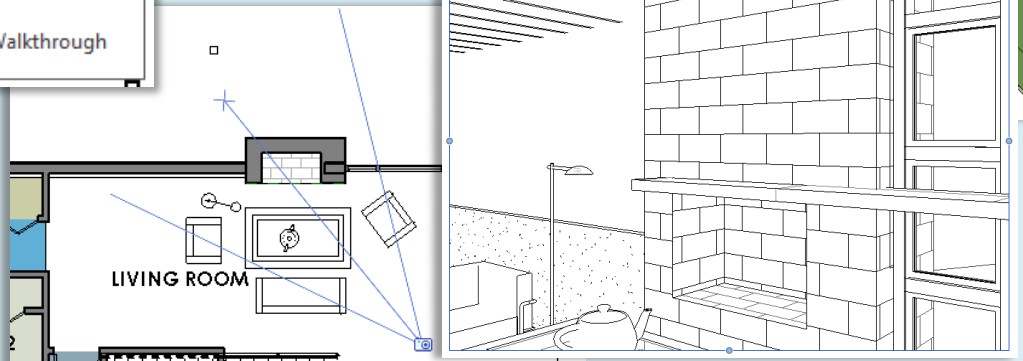




- **Isometric**
- **Perspectives**
- Walkthroughs





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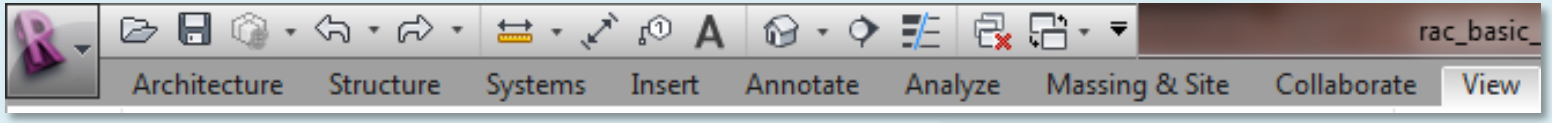
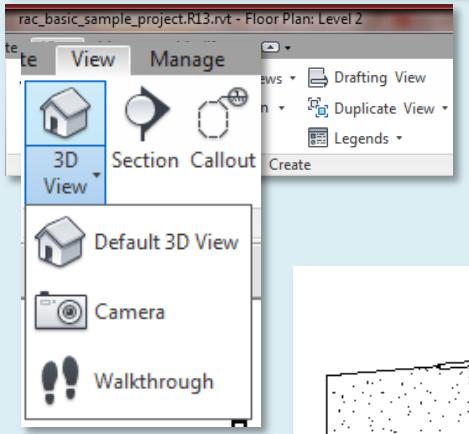
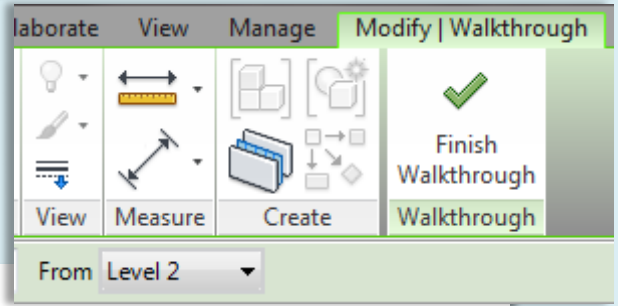
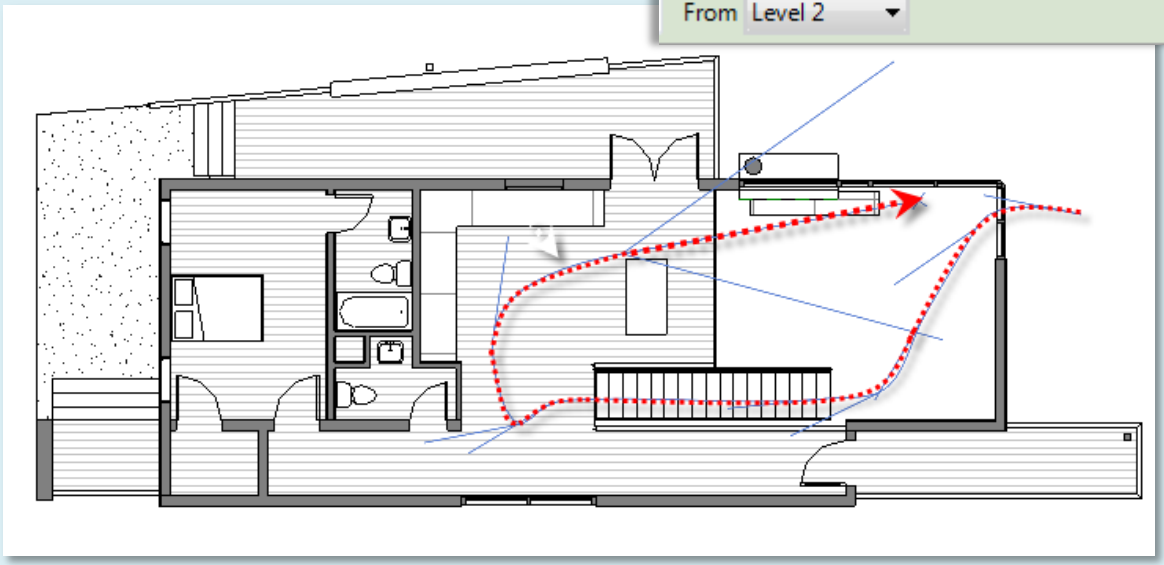




- Isometric
- Perspectives
- **Walkthroughs**





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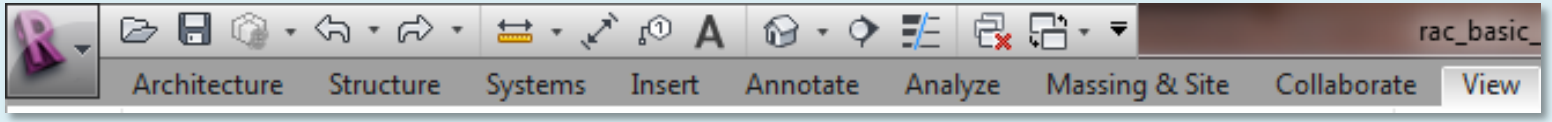
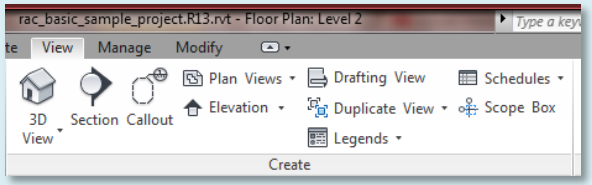
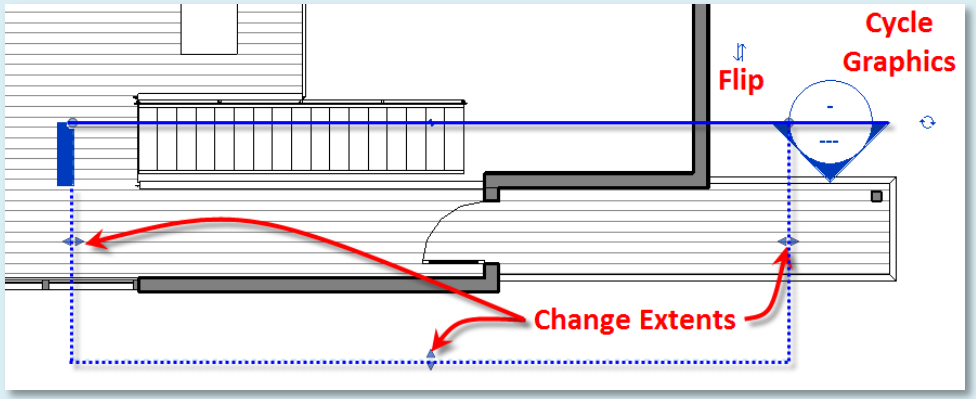
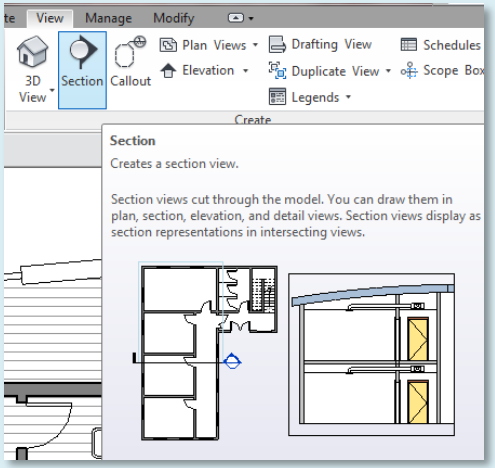
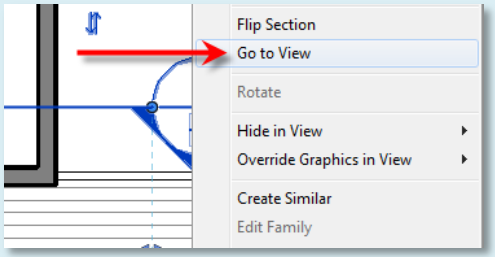


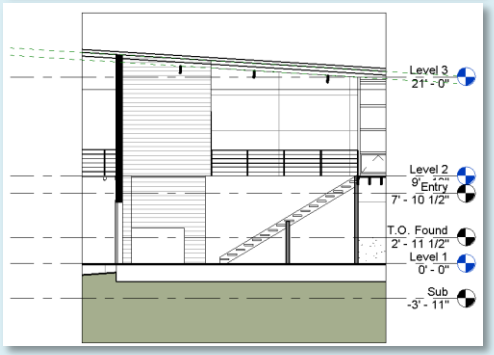






- **Section scale will match plan scale**





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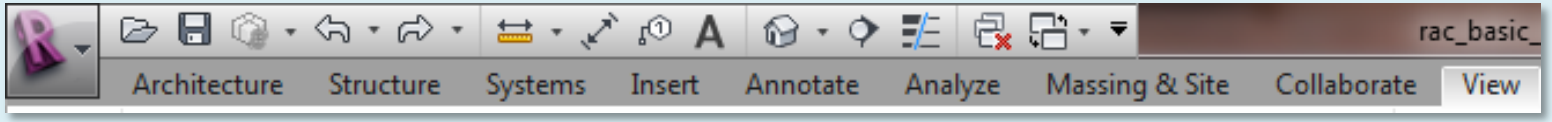
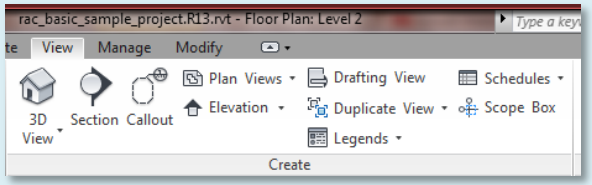
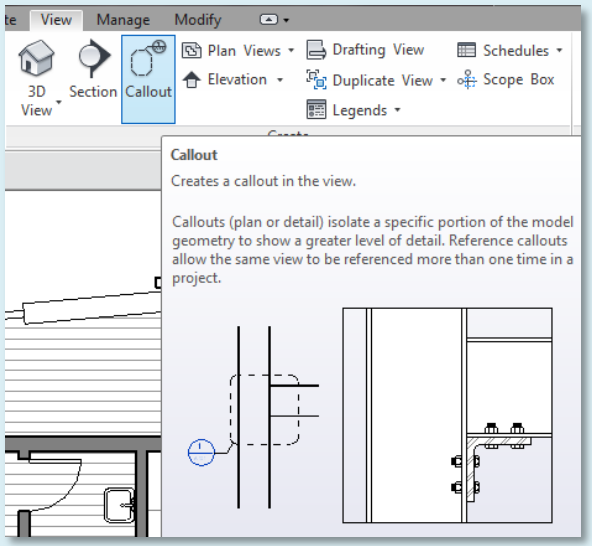
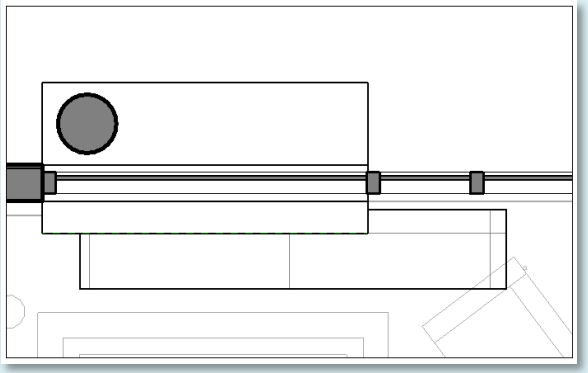
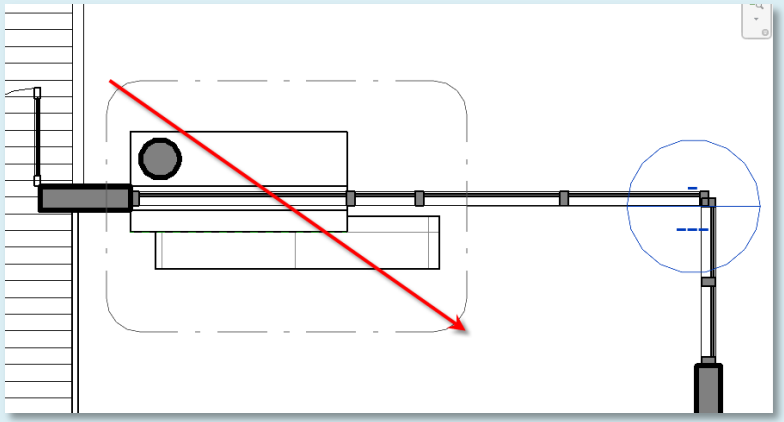






- **Scale of callout doubles**
- **1/8 plan creates a ¼ callout**





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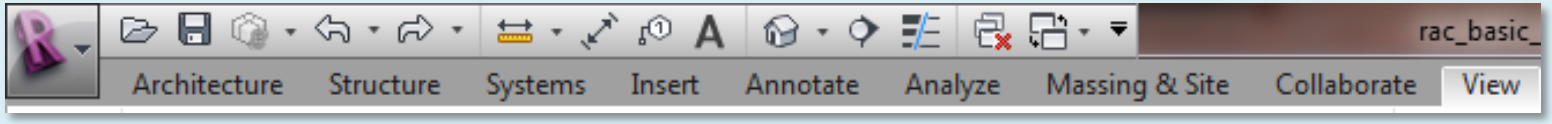
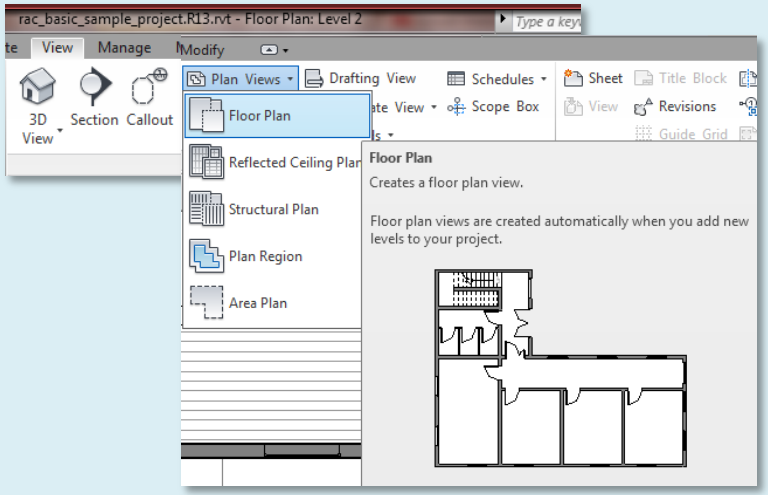
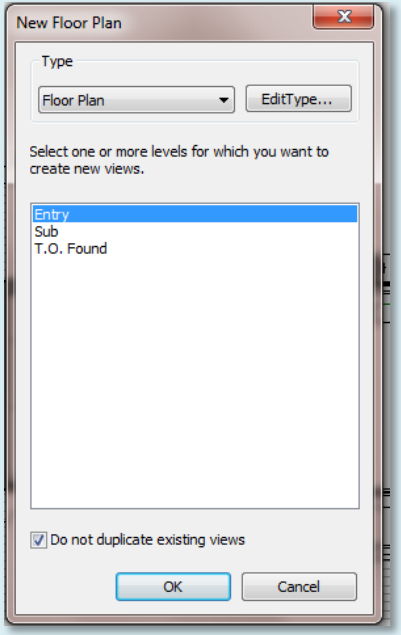
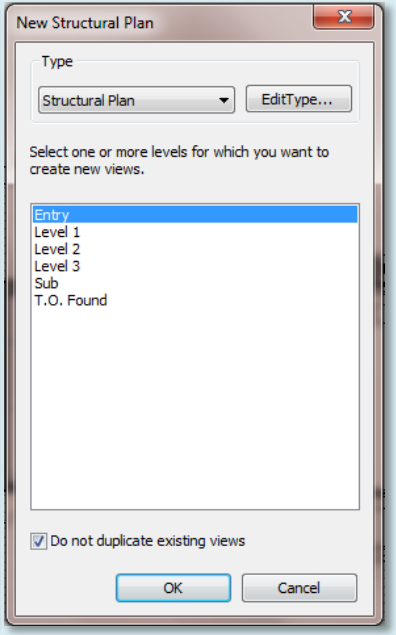




- **Floor plans**
- **Reflected ceiling plans**
- **Structural plans**
- **Region plans**
- **Area plans**

- **You can only create a plan for any level that does not yet have an associated plan view**





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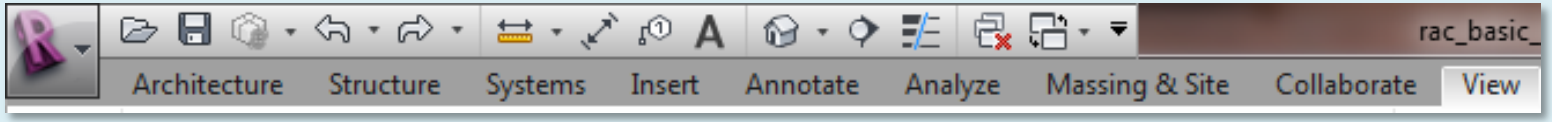
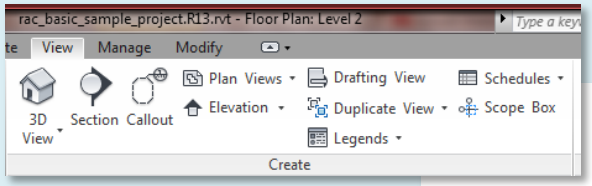
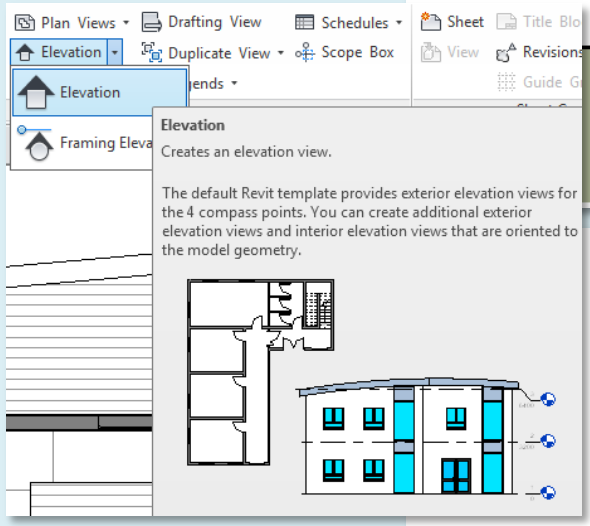
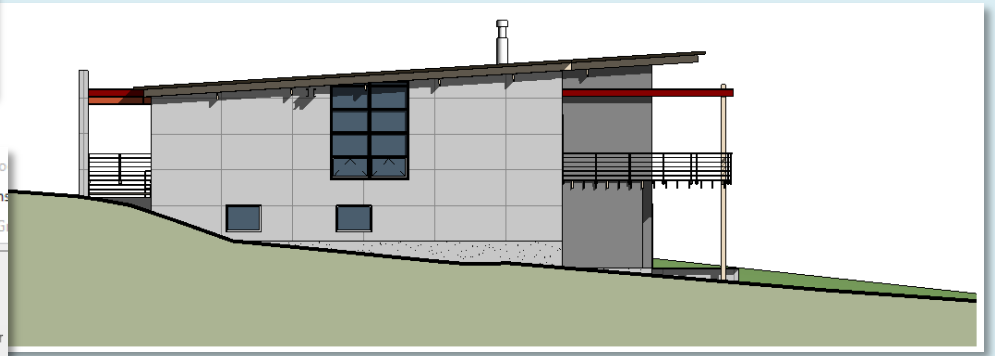
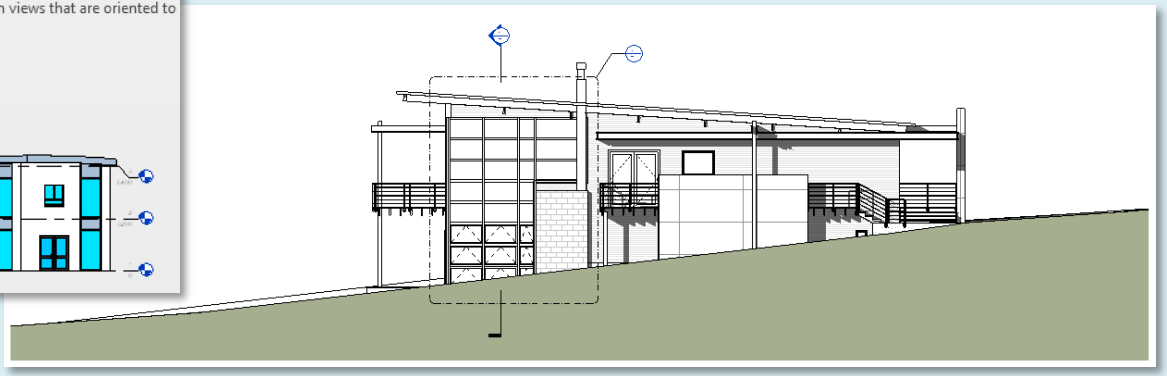






- **Scale typically matches floor plans**





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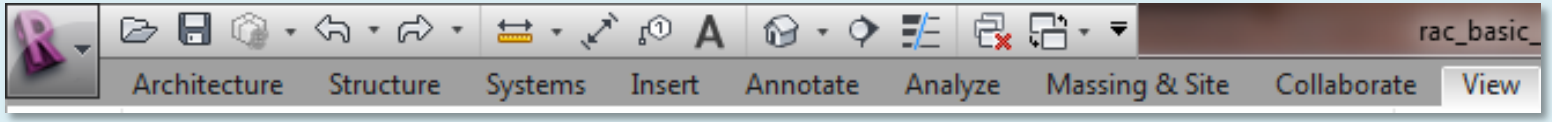
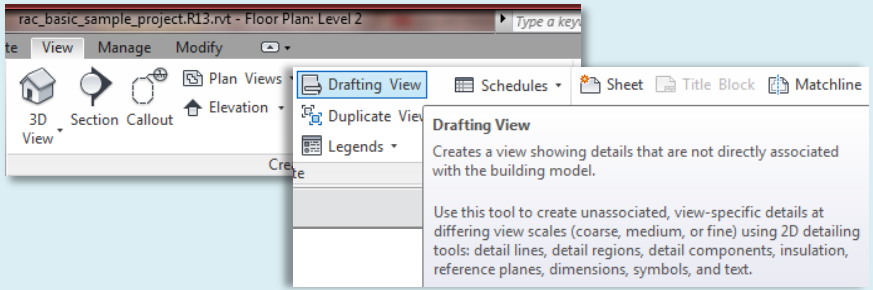
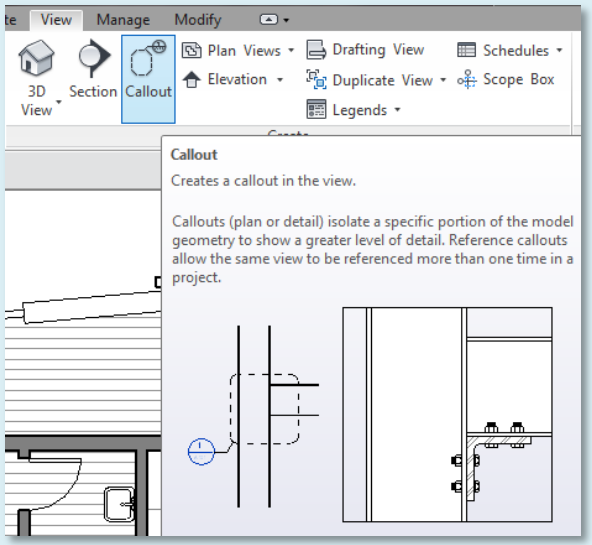
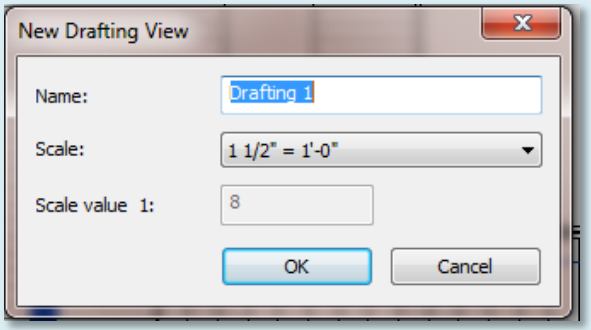






- **A non-associated view for creating details**



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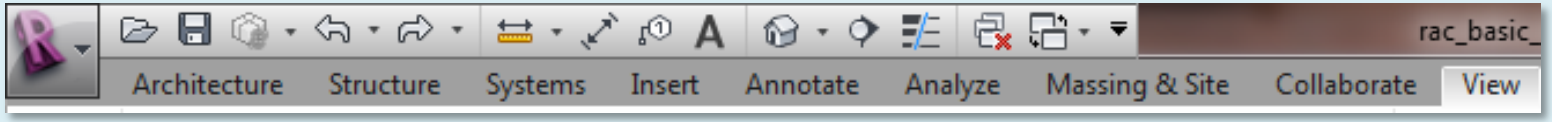
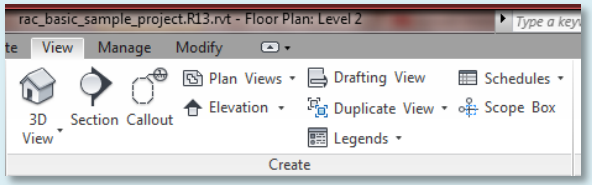
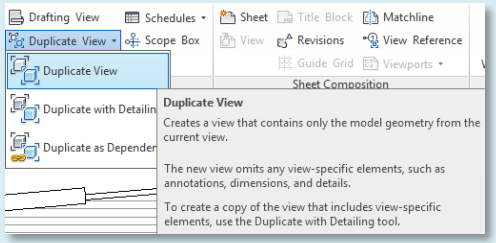
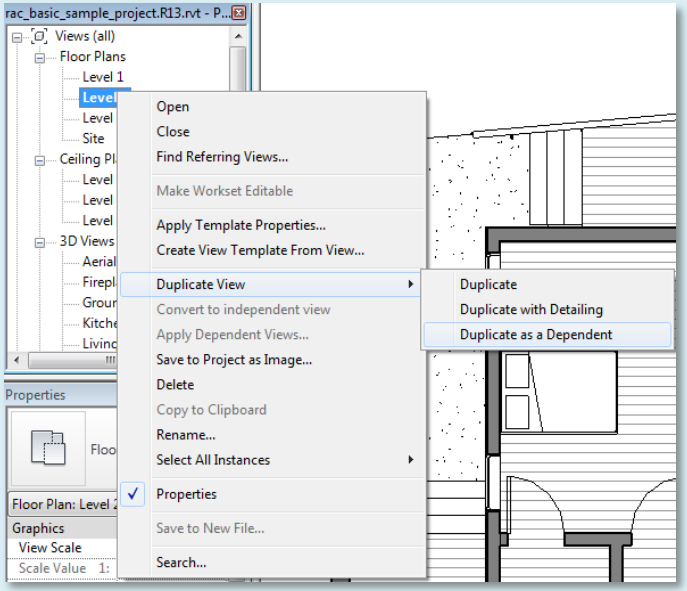
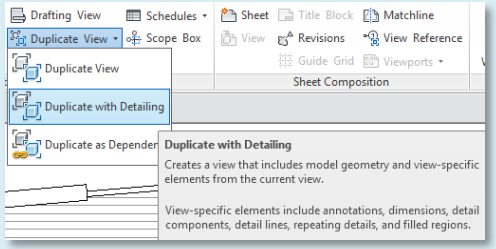


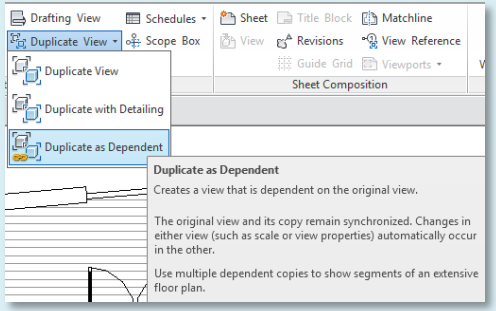


- **Duplicate**
- **Duplicate with detailing**
- **Duplicate as Dependant**









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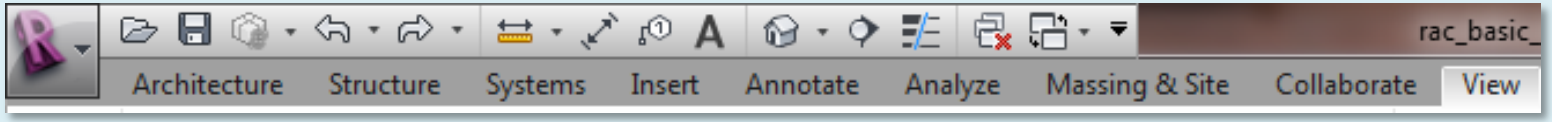

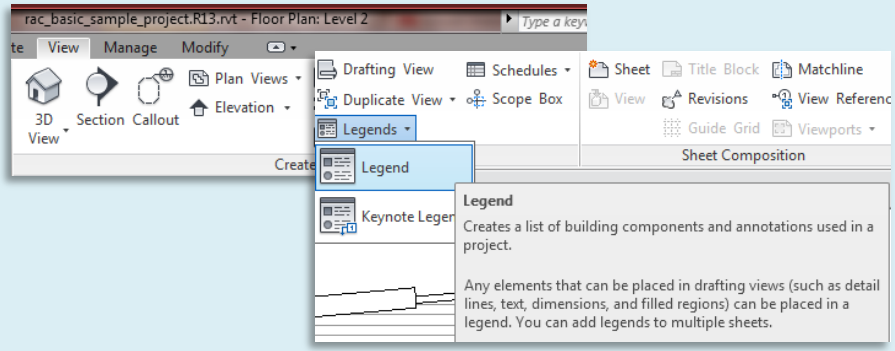

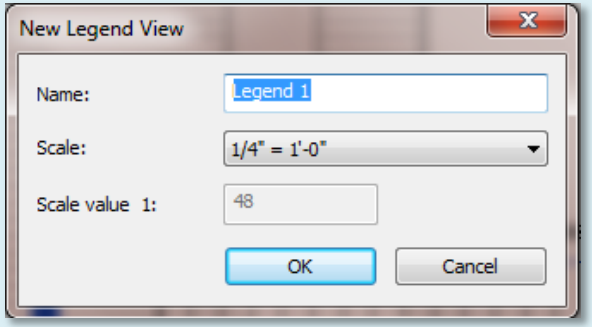

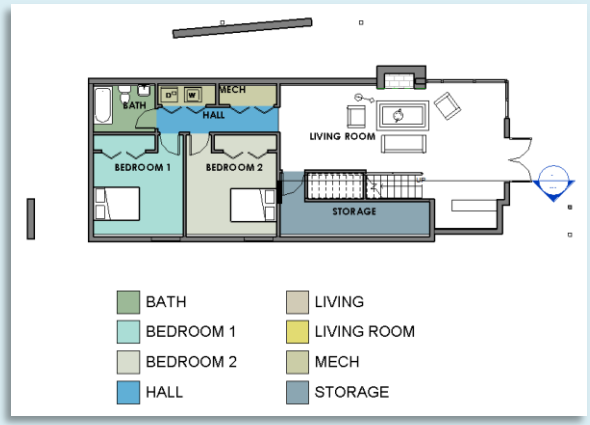

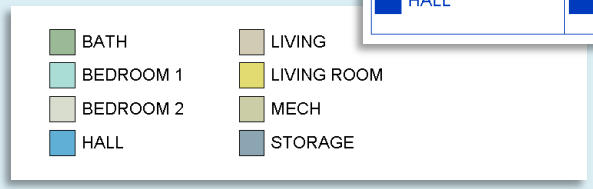

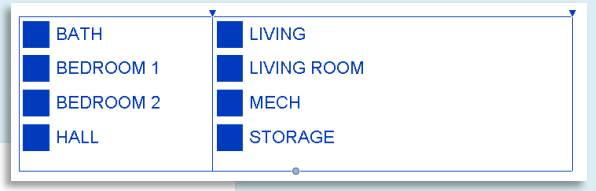

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Project Tour
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Project Browser
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Sheet Layout

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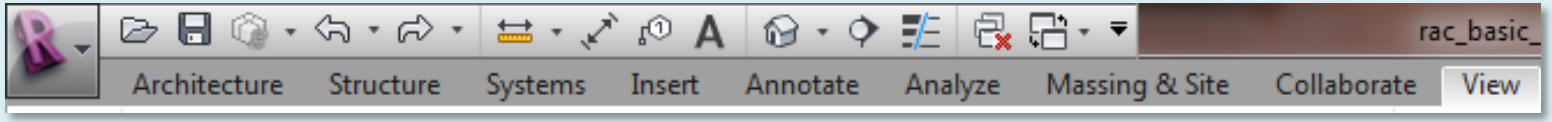
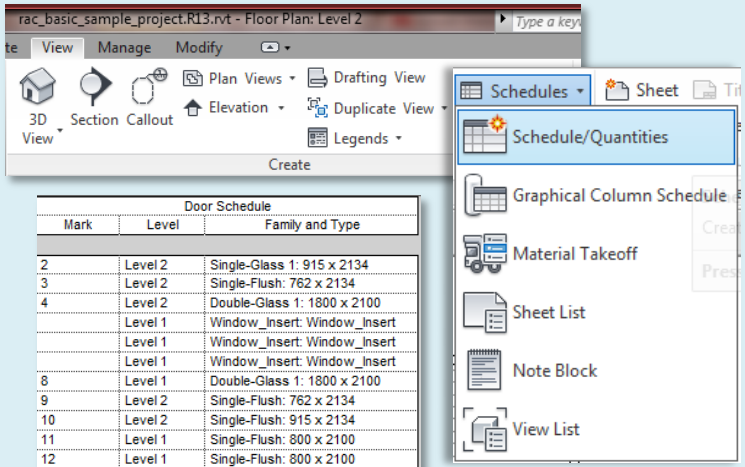
Creating New Views - Schedules

Quick Access Toolbar

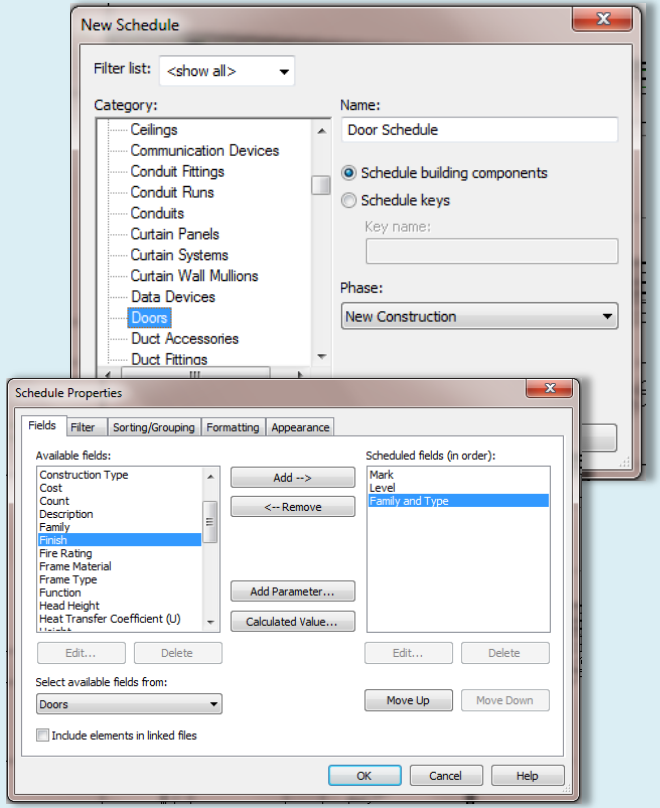




Door Schedule

Mark	Level	Family and Type
2	Level 2	Single-Glass 1: 915 x 2134
3	Level 2	Single-Flush: 762 x 2134
4	Level 2	Double-Glass 1: 1800 x 2100
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
8	Level 1	Double-Glass 1: 1800 x 2100
9	Level 2	Single-Flush: 762 x 2134
10	Level 2	Single-Flush: 915 x 2134
11	Level 1	Single-Flush: 800 x 2100
12	Level 1	Single-Flush: 800 x 2100
13	Level 1	Single-Flush: 800 x 2100
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 1	Window_Insert: Window_Insert
	Level 2	Window_Insert: Window_Insert
	Level 2	Window_Insert: Window_Insert
14	Level 1	Single-Flush: 915 x 2134
15	Level 2	Single-Flush: 915 x 2134
16	Level 1	Bifold-4 Panel: 1800 x 2100
17	Level 1	Bifold-4 Panel: 1800 x 2100
18	Level 1	Bifold-4 Panel: 1800 x 2100
19	Level 1	Bifold-4 Panel: 1800 x 2100

- **Associated with parametric objects in the project**



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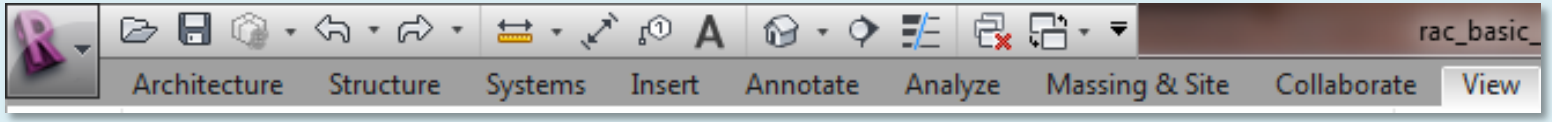
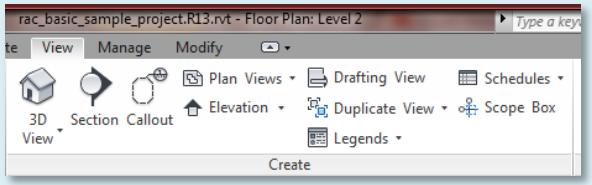
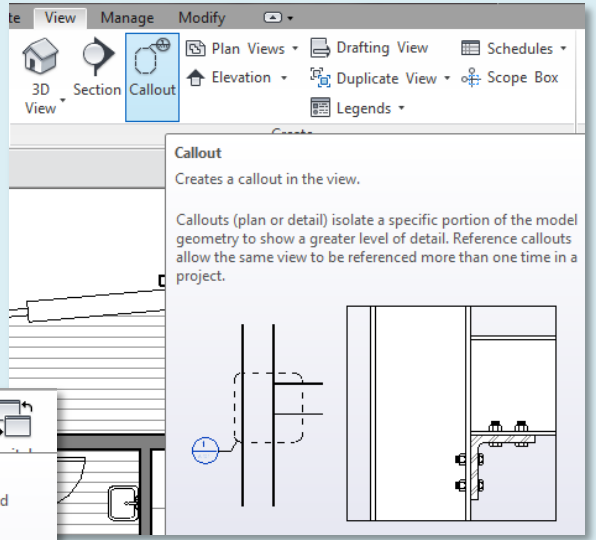
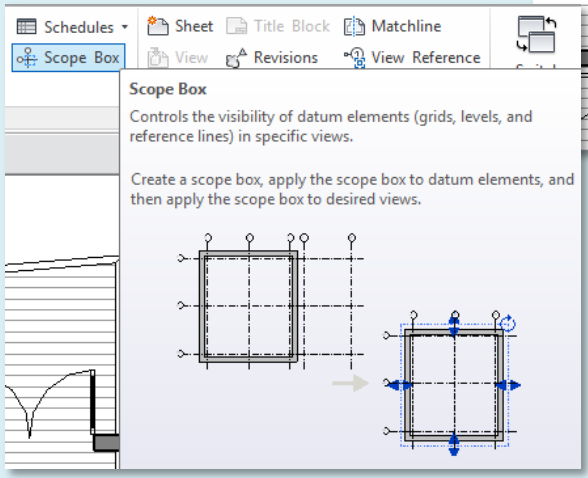
Quick Access Toolbar







- **Controls the visibility of datum elements (grids, levels and reference lines) in specific views**



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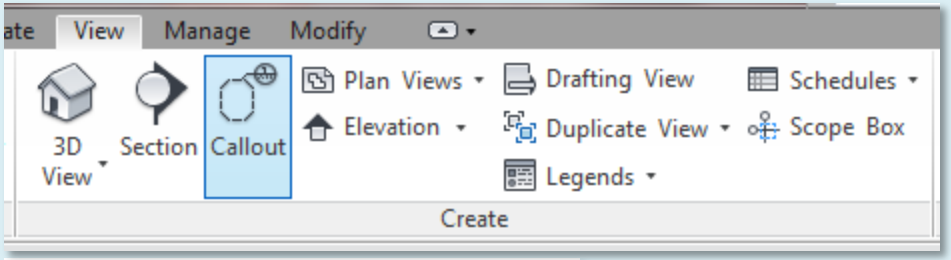
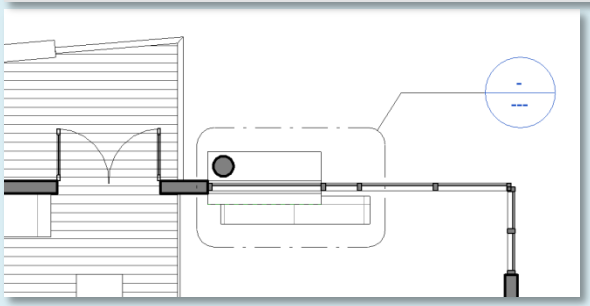
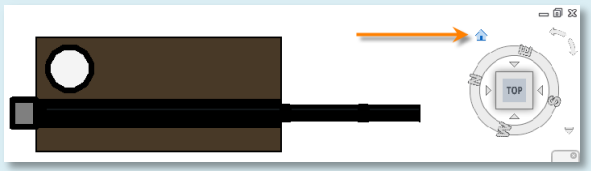
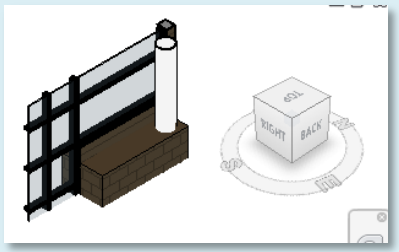
Quick Access Toolbar

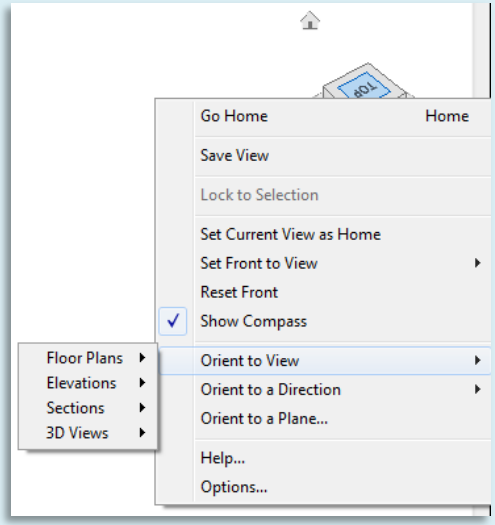


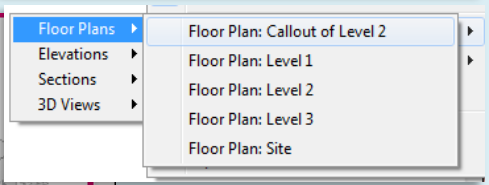


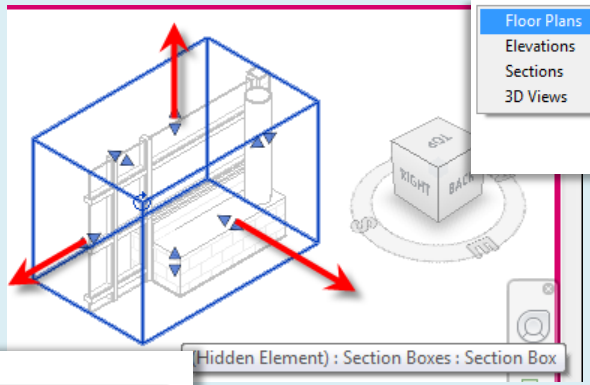


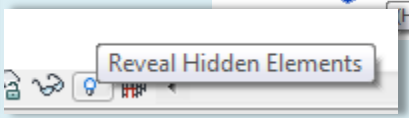


- **Create Callout**
- **Orient to View**
- **Home View**
- **Reveal Hidden**









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Day 01

Project Tour
- Change Units
- Take a Tour

Project Browser
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Creating Views
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Scavenger Hunt

Sheet Layout

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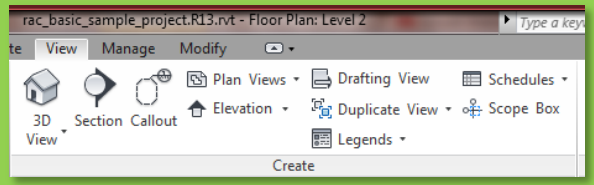
Scavenger Hunt

RAC_Basic_Sample_Project.rvt



To describe the sample model identify and create as many unique views as you can find. (the scavenger hunt)

Group related views and place them on a sheet at the appropriate scale. A unique view is one that adds to the story and is not redundant.

Student Learning Objectives:

Upon successful completion of this assignment, the student will:

- Correctly Name a Revit File according to class standards
- "Tell a Story" through drawings by selecting appropriate views of a Revit Model.
- Logically group together related views and format these on a sheet in Revit.
- Understand the appropriate scale for various drawing types.

Assessment:

To evaluate the student's achievement of the learning objectives, the professor will do the following:

- Evaluate the file for proper naming convention.
- Evaluate the number of stories told by the student.
- Evaluate the quality and completeness of the story told by the student.
- Evaluate the quality and formatting of view laid out on sheets in Revit.
- Evaluate the appropriate use of scale.
- Assess assignment for deadline submission / lateness
- Commend the student for initiative beyond the given the assignment.

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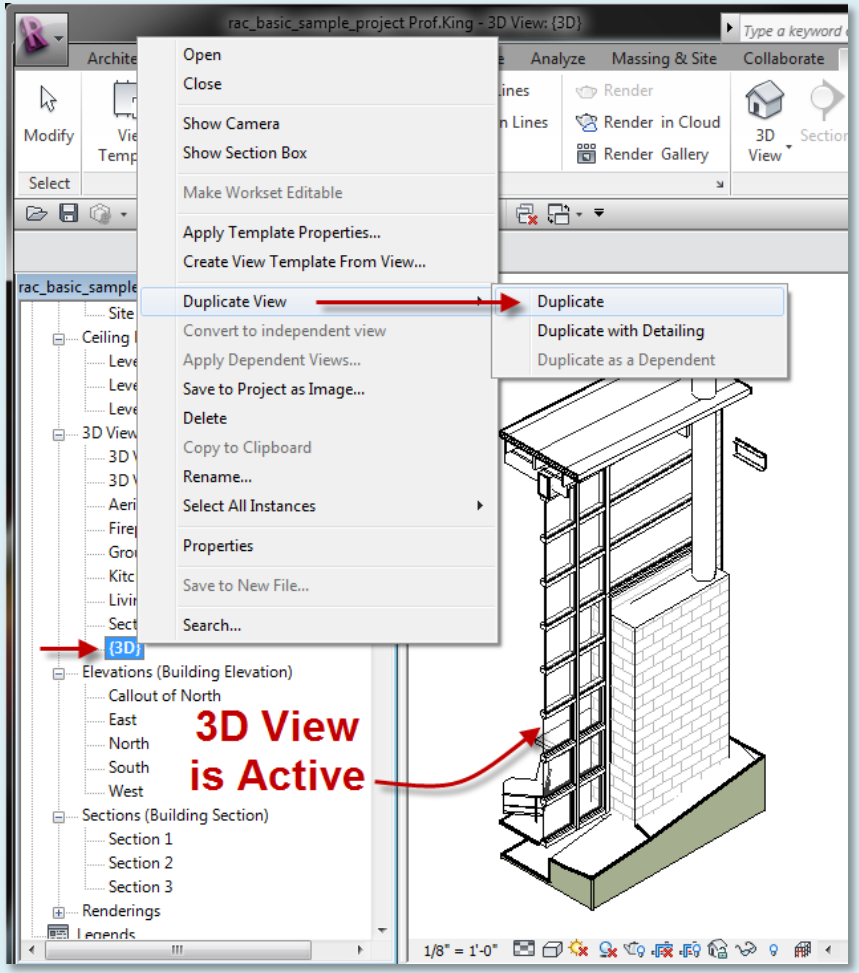
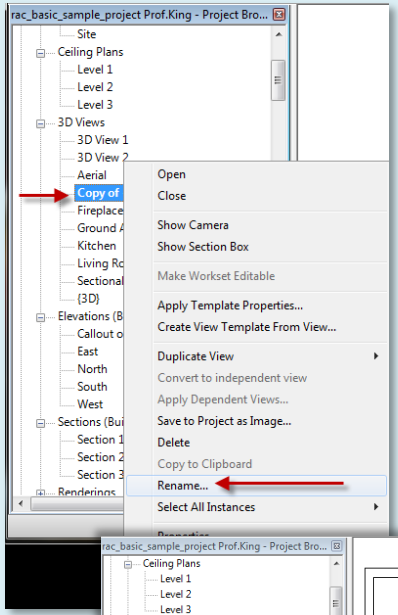
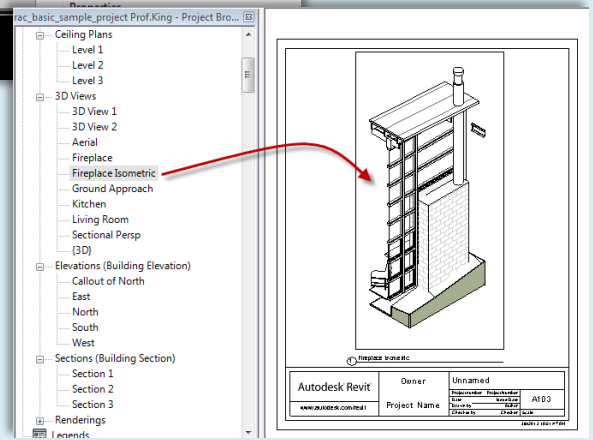
Orient to View : Duplicate 3D view







- **Default 3D View**
- **Orient to View**
- **Duplicate View**
- **Set Bounding Box**
- **Set Scale**
- **Place on Sheet**

RAC_Basic_Sample_Project.rvt

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Orient to View

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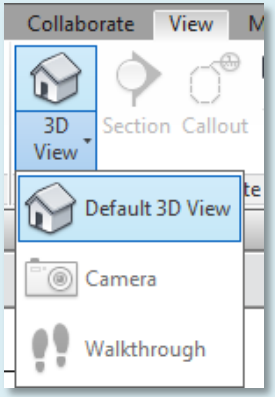
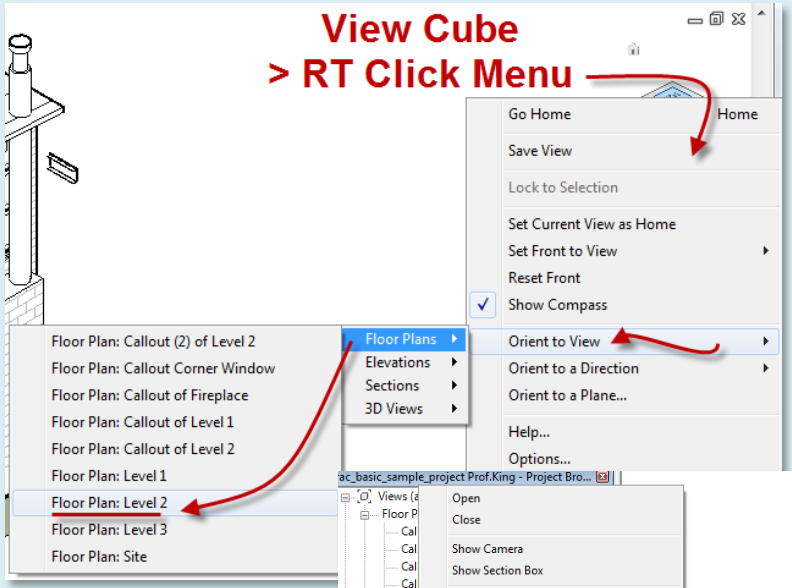
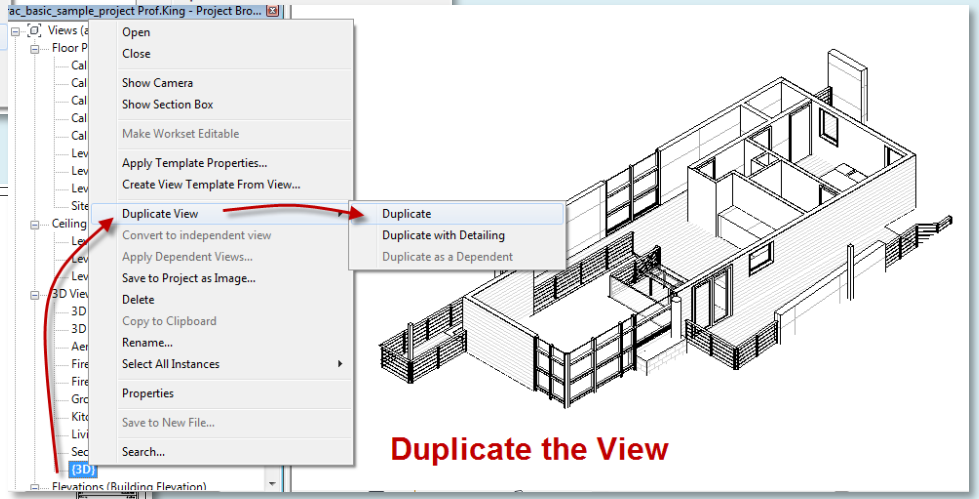
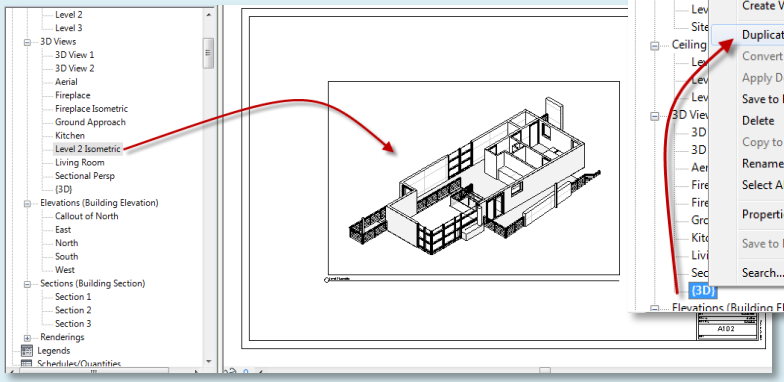
Orient to View : Duplicate 3D view









RAC_Basic_Sample_Project.rvt

- Default 3D View
- Orient to View
- Duplicate View
- Set Bounding Box
- Set Scale
- Place on Sheet

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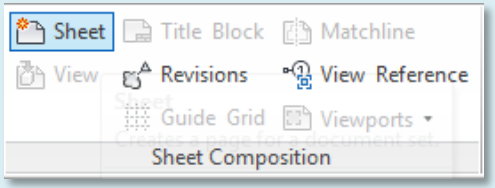

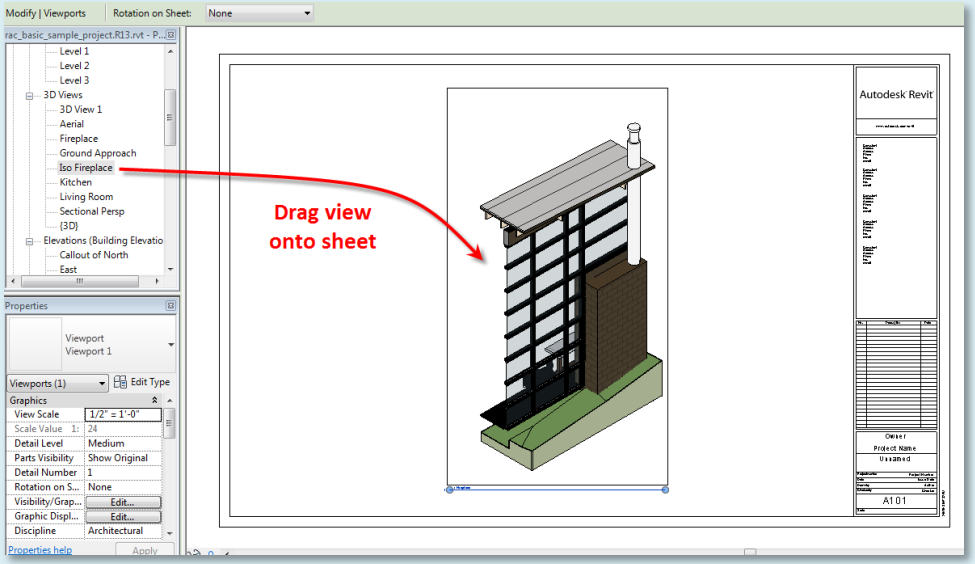

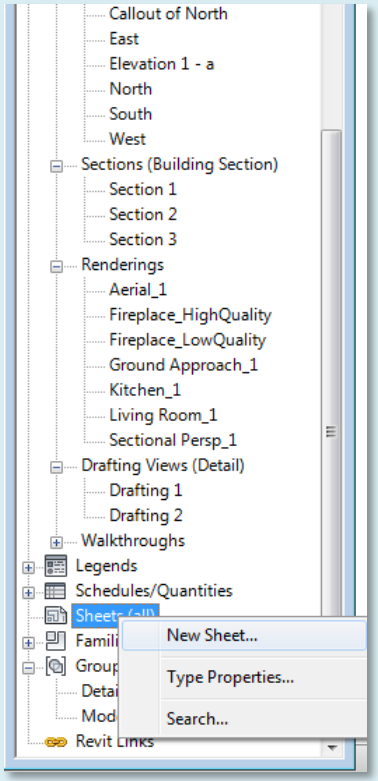

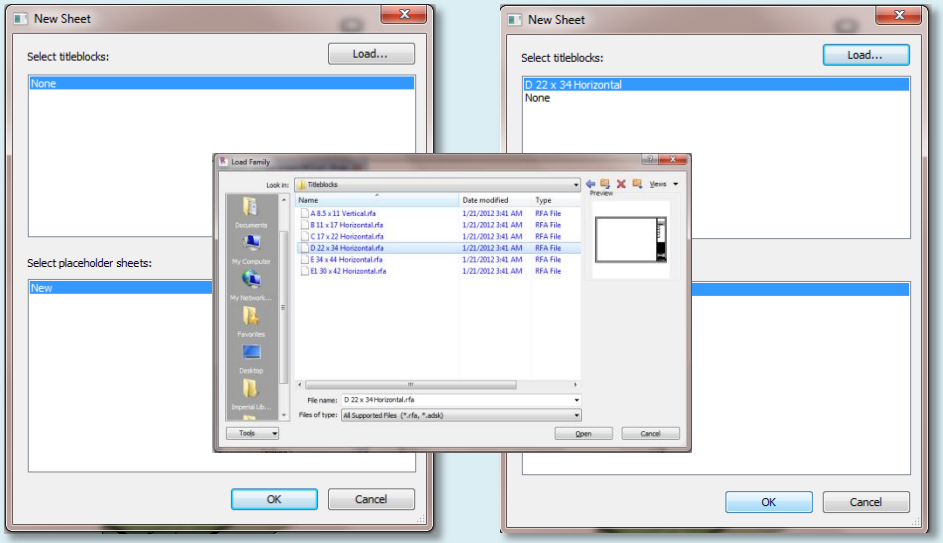

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Building Information Modeling (BIM) & Parametrics

Quick Access Toolbar

Door Schedule		
Mark	Level	Family and Type
	Level 2	Window_Insert: Window_Insert
	Level 2	Window_Insert: Window_Insert
2	Level 2	Single-Glass 1: 915 x 2134
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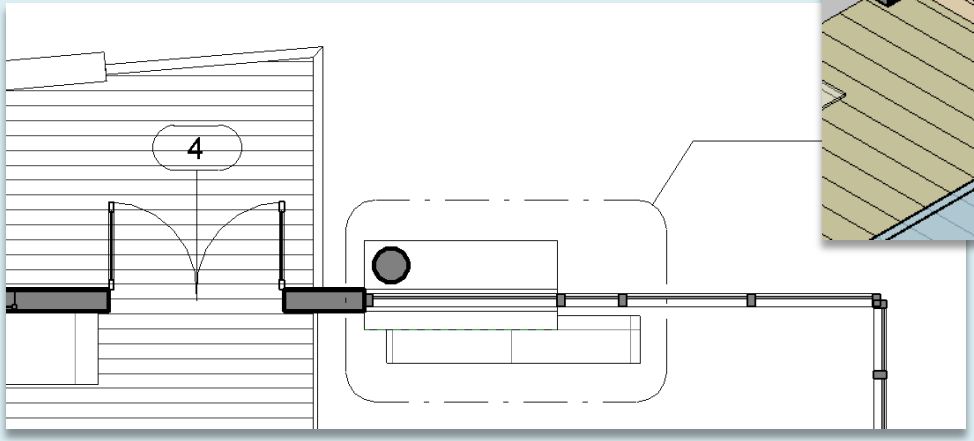
10	Level 2	Single-Flush: 915 x 2134
15	Level 2	Single-Flush: 915 x 2134

3d view, plan view and schedule view of the same door



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Day 1 – Wrap up

- **Units 1 = 1 foot**
- **Project Browser**
- **Object Properties**
- **Views**
- **Sheets**
- **Families**
- **Groups**
- **ZE = zoom extents**
- **Visual Styles**
- **Vocabulary terms**
  - **Parametric**
  - **Building Information Modeling**
- **Homework**
  - **Submit 1 completed scavenger hunt sheet to be emailed as a pdf by Friday at 6pm.**
  - ***Prof.Paul.King@Gmail.com***
  - **File must include course name, assignment description and your full name *R1.Scavenger.First.Last.pdf***