

About Doug

- Currently works as an independent consultant Doug Bowers Consulting, LLC
 - Provide training and implementation for AutoCAD, AutoCAD Architecture, and Revit products on a nationwide basis
- Over 30 years in the AEC industry, including over 20 years managing or consulting in design software, including CAD and BIM
- Worked for companies in both production and management roles
 - Started using CAD in 1978 and started using AutoCAD in 1988
 - Production roles of Drafter, Technician, Project Manager, Project Architect.
 - Director of CAD Technologies Managed, trained, and supported users for company with 16 offices around the country, including software customizations

Class Summary

The Design Development stage of a building design is an important time for refining the building design for meeting requirements, but also when good communication with the client is crucial in getting their approval. This class will demonstrate ways of using Revit to make sure that you are fulfilling the design criteria through verifying space usage per the program, addressing room occupancy, and visually coordinating fire rated walls and doors. We will also show how to communicate the design with the client through Room Data Sheets, 3D plans per floor, floor plan shadowing, color schemes, and other methods.

Learning Objectives

At the end of this class, you will be able to:

- Configure a view to show the room occupancy for each room
- Create a custom schedule to verify space usage relationship to the program
- Create 8-1/2" x 11" Room Data Sheets
- Create visually impacting floor plans

Program Vs Actual Room Area

Room Area Schedule											
Name	Number	Area	Program Area	Area Difference	Area Percentage						
RECEPTION	100	479 SF	500 SF	-21 SF	95.8%						
OPEN OFFICE	101	844 SF	850 SF	-6 SF	99.3%						
CORRIDOR	102	343 SF	350 SF	-7 SF	98.0%						
TRAINING ROOM	103	1028 SF	1000 SF	28 SF	102.8%						
CONFERENCE	104	402 SF	400 SF	2 SF	100.5%						
WORKROOM	105	428 SF	400 SF	28 SF	106.9%						
STORAGE	106	384 SF	400 SF	-16 SF	96.1%						
MEN	107	123 SF	120 SF	3 SF	102.7%						
WOMEN	108	134 SF	150 SF	-16 SF	89.1%						
OFFICE	109	133 SF	120 SF	13 SF	110.7%						
OFFICE	110	127 SF	120 SF	7 SF	106.1%						
OFFICE	111	127 SF	120 SF	7 SF	106.1%						
MECHANICAL	112	121 SF	120 SF	1 SF	100.5%						
4673 SF 4650 SF 23 SF				23 SF							

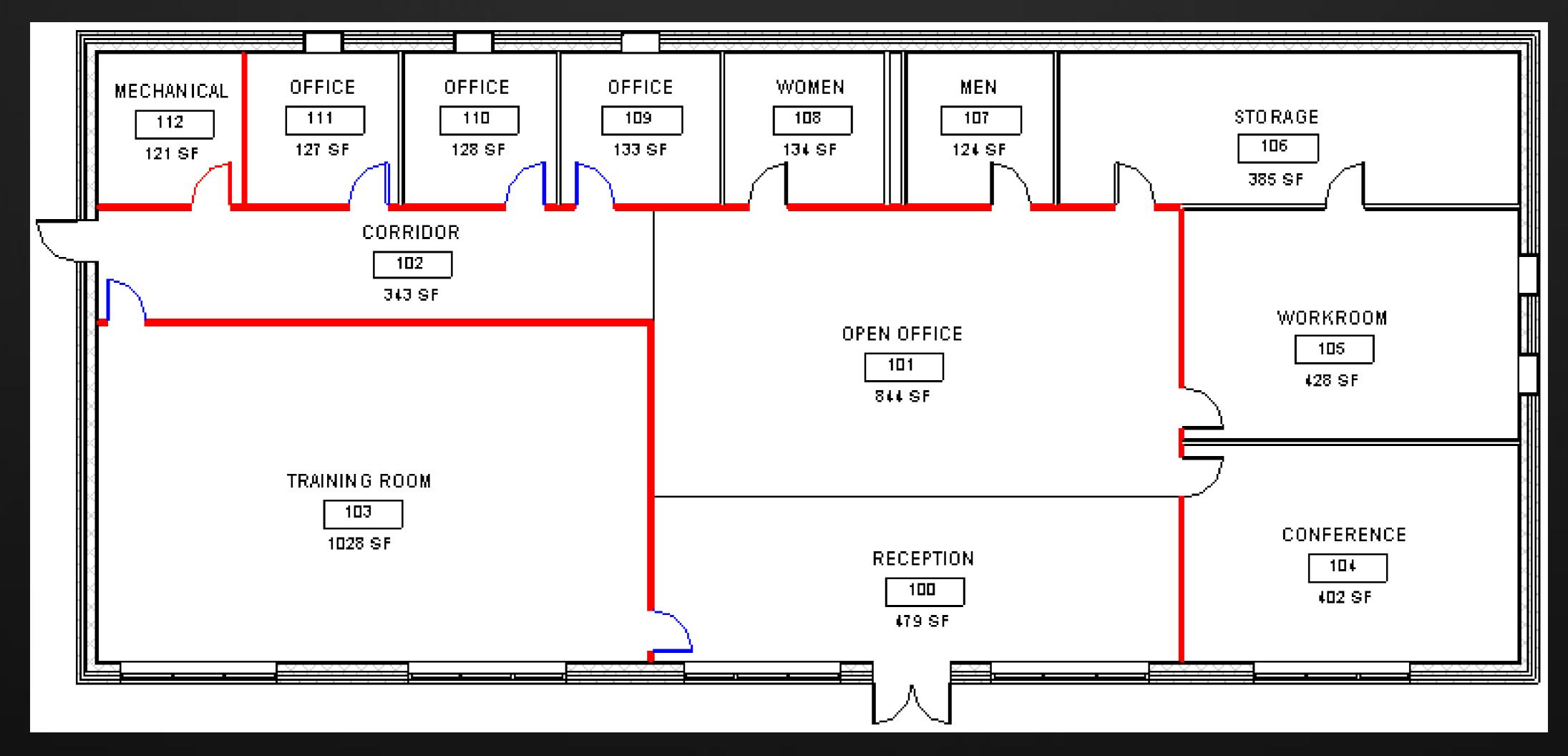
Room Occupancy & Usage

Occupancy Schedule											
Number	Name	Area	Non Calculate	Net Room Area	Area Per Occ	Occupancy Classification	Оссир	Occupa	Occupancy Load Equal Test		
100	RECEPTION	479 SF	0 SF	479 SF	15 SF	Assembly without fixed	32	32	Yes		
101	OPEN OFFICE	844 SF	0 SF	844 SF	100 SF	Business areas	9	9	Yes		
102	CORRIDOR	343 SF	0 SF	343 SF	0 SF	Unoccupied - Corridors,		0			
103	TRAINING ROOM	1028 SF	0 SF	1028 SF	7 SF	Assembly without fixed	147	147	Yes		
104	CONFERENCE	402 SF	0 SF	402 SF	15 SF	Assembly without fixed	27	27	Yes		
105	WORKROOM	428 SF	20 SF	408 SF	15 SF	Assembly without fixed	28	28	Yes		
106	STORAGE	384 SF	0 SF	384 SF	300 SF	Accessory storage area	2	3	No		
107	MEN	123 SF	0 SF	123 SF	0 SF	Unoccupied - Corridors,		0			
108	WOMEN	134 SF	0 SF	134 SF	0 SF	Unoccupied - Corridors,		0			
109	OFFICE	133 SF	0 SF	133 SF	100 SF	Business areas	2	2	Yes		
110	OFFICE	127 SF	0 SF	127 SF	100 SF	Business areas	2	2	Yes		
111	OFFICE	127 SF	0 SF	127 SF	100 SF	Business areas	2	2	Yes		
112	MECHANICAL	121 SF	0 SF	121 SF	300 SF	Accessory storage area	1	1	Yes		
Grand total							252	253			

Room Occupancy & Usage



Filters for Checking Design



Room Data Sheets

Optimizing Design Development

Projekt Namber: AB1851

Room Name:

Department:

Program Area:

Actual Area:

Comments:

WORKROOM

Program ID: Room Number:

WKRM

Support

Calling Bright: Hoor Holid:

<u>Finishes</u>: Celling Height:

VCT Wall Bolish: PAINT Bare Anich:

9-6

ACT

Architectural:

Door Handware:

Glazing:

Millwork:

428 SF

THIS IS A SAMPLE COMMENT

<u>Mechanical:</u>

Power:

120V ABOVE COUNTER, 187 ELSEWH ER E

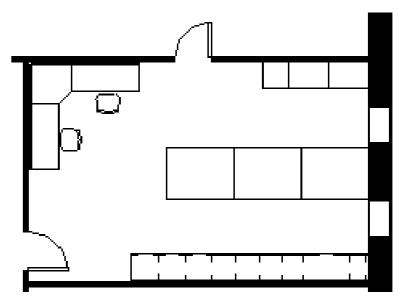
8 TALL CABINETS, 18 COUNTER WCABINETS ABOVE & BELOW,

EXTERIOR ON LY

LOCKSET

Lighting: FLOURESCENT Data/Telephone: 1 PHO NE, 3 DATA

Plumbling: NONE STANDARD

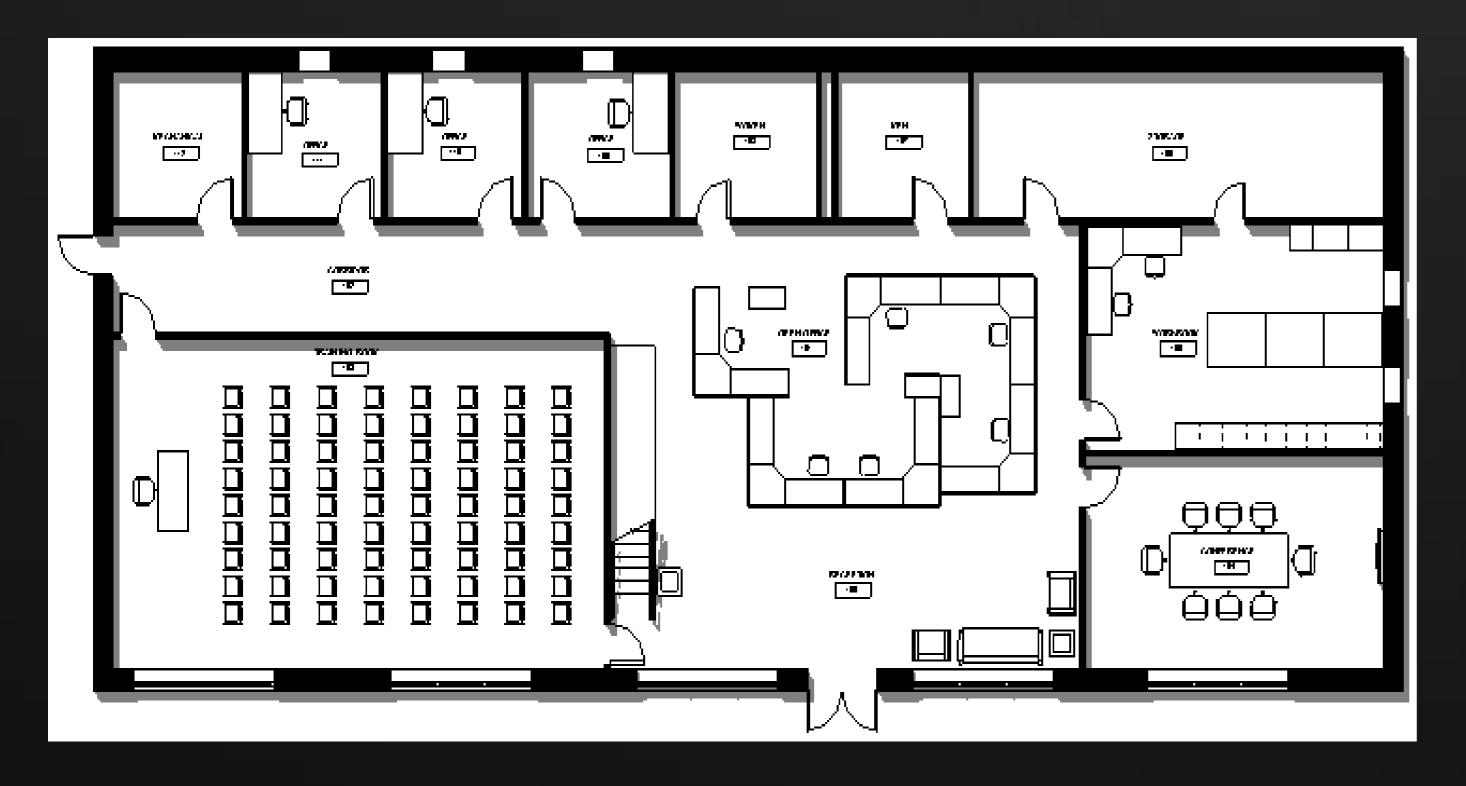


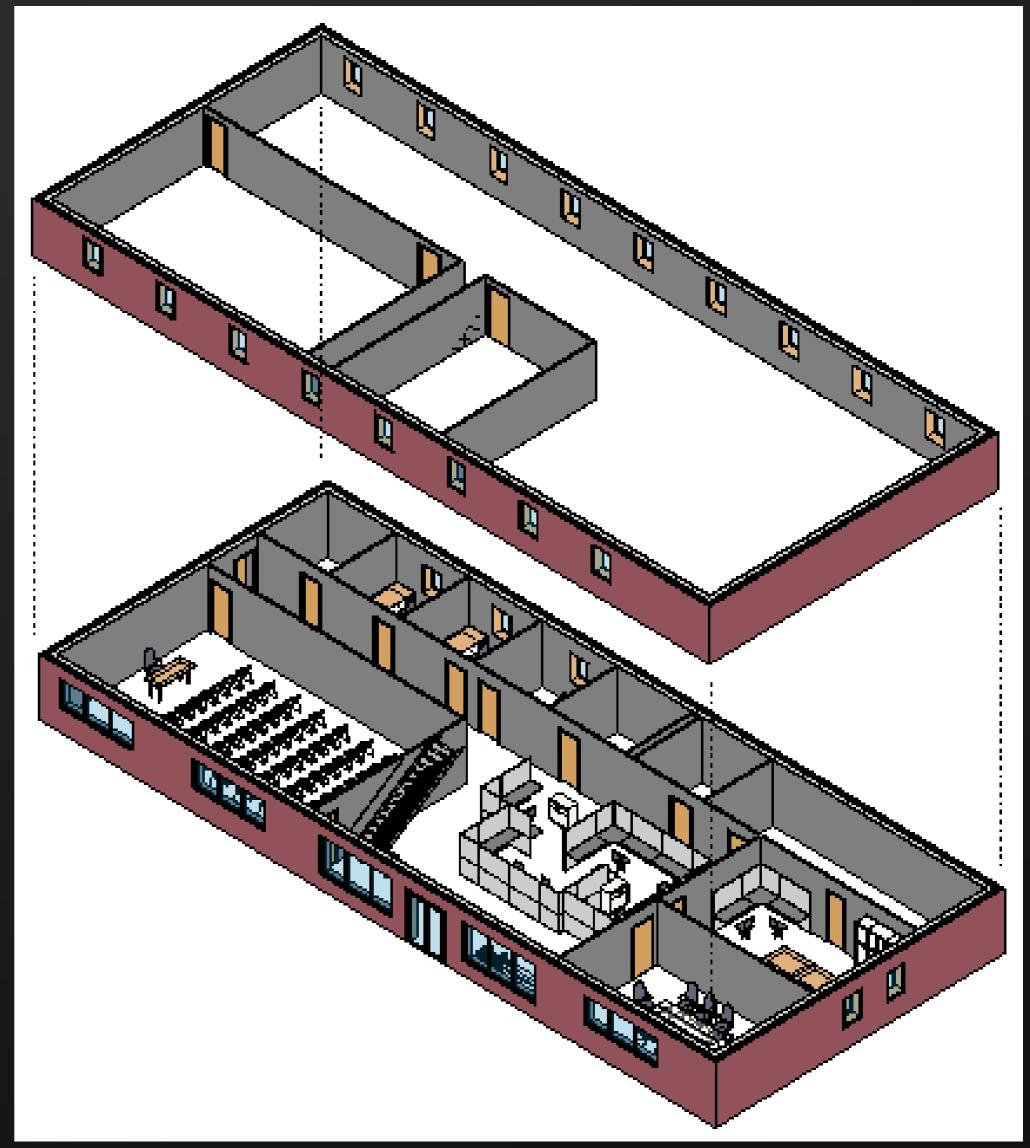
Reuleweifs Approual Signature:



Autodesk University 2012

Visual Floor Plans





Let's get into Revit...

Please hold questions until the end.

Thank you for choosing this class to attend!



Be sure and fill out your class evaluation.

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