

GRID LINES

GRID LINES ARE USED BY THE BUILDER TO SET ORDER TO MAIN STRUCTURAL ELEMENTS. GRID LINES ARE TYPICALLY ALIGNED TO:

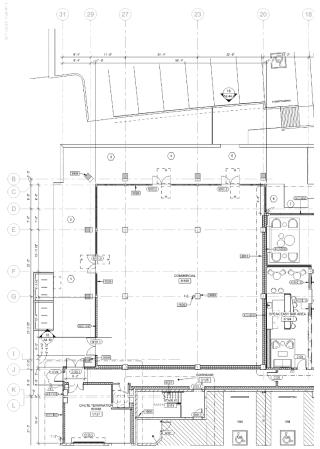
- EDGE OF BUILDING
- STRUCTURAL COLUMNS
- STRUCTURAL BEARING WALL
- EDGE OF SLAB

NOT ALL PLANS WILL HAVE GRIDLINES SHOWN

PLANS WITH GRID LINES: SLAB PLANS OVERALL FLOOR PLANS ENLARGED FLOOR PLANS (SERIES 3) REFLECTED CEILING PLANS ROOF PLANS ELEVATIONS SECTIONS

PLANS WITHOUT GRID LINES:

LIFE SAFETY UNIT PLANS ENLARGED AREA PLANS (SERIES 5)



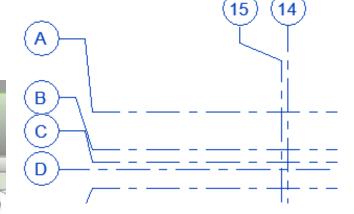


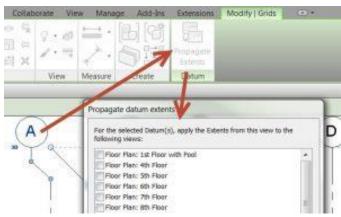
GRIDLINES IN REVIT

USE PROPAGATE EXTENTS TO SET UP YOUR GRID EXTENSIONS. THIS WILL COPY THE LAYOUT THROUGOUT VIEWS WITH THE SAME ORIENTATION.

- 1. SET YOUR GRID OFFSETS IN ONE VIEW AND DISTRIBUTE THEM THROUGOUT SIMILAR VIEWS.
- 2. THE VIEW YOU COPY FROM, CANNOT HAVE SCOPE BOXES OR CROP REGIONS
- 3. VIEWS NEED TO HAVE THE SAME ORIENTATION
- 4. THIS CAN BE APPLIED TO LEVELS IN ELEVATIONS AND SECTIONS AS WELL

rate View	w Manage	Add-Ins	CTC Productivity	CTC N	
↔ -	6	ro L ro	Save		
**-		Propagate Extents	Filter		
Measure	Create	Datum	Selection		
🖆 AF LEVEL 1 📑 LEVEL L1 🗙					







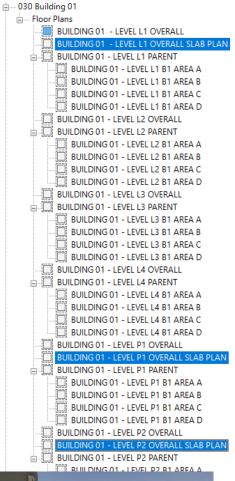
PLAN DIMENSIONS AT ORB **METHODOLOGY**:

EVERY PROJECT WILL HAVE SLAB PLANS AS PART OF THE A3 SERIES. SLAB PLANS ARE TO BE PROVIDED AT THE BEGINNG OF THE ARCHITECTURAL FLOOR PLANS.

SLAB PLANS WILL CONVEY THE BULK OF THE DIMENSIONAL INFORMATION. THINK OF THIS IN A CONSTRUCTION SEQUENCE MANNER.

- 1. THE CONCRETE SLAB WILL BE MEASURED BASED ON SLAB PLANS AND SET ON SITE.
- 2. EXTERIOR WALLS WILL BE SET AT THE EDGE OF SLAB WITHOUT HAVING TO TAKE MEASUREMENTS

BY PLACING DIMENSIONS ON THE SLAB PLANS, WE WON'T NEED AS MANY DIMENSIONS ON THE ARCHITECTURAL FLOOR PLANS.



THIS PROVIDES:

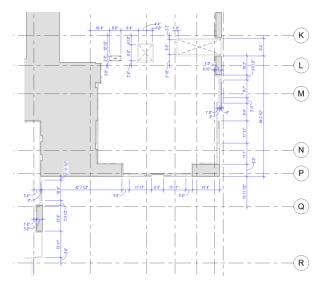
- LESS DIMENSIONING REQUIRED ON ARCHITECTURAL PLANS.
- LESS REPEATED INFORMATION BETWEEN SLAB
 PLANS AND ARCHITECTURAL PLANS
- ARCHITECTURAL PLANS ONLY DIMENSION WALLS NOT ASSOCIATED WITH A SLAB EDGE. WALLS CAN BE TIED BACK TO SLAB EDGE, COLUMN OR GRID LINE



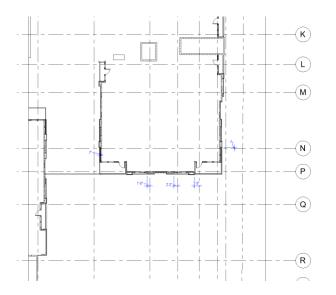


DIMENSIONING PROCESS

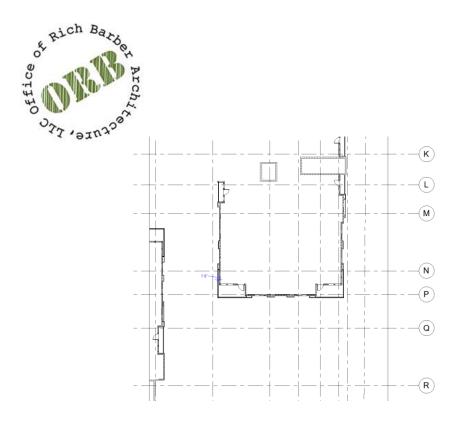
1. DIMENSION ALL SLAB EDGES



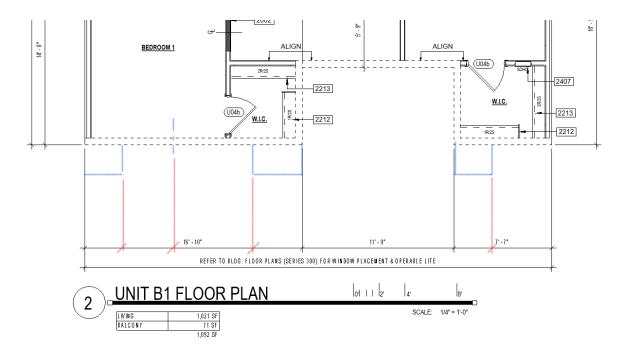
2. DIMENSION ELEMENTS NOT ASSOCIATED WITH SLAB EDGES (POP OUTS)



3. DIMENSION ELEMENTS THAT ARE DIFFERENT AT EACH LEVEL



4. UNIT WINDOWS AND DOORS ARE ONLY DIMENSIONED IF THEY ARE DIFFERENT FROM THE UNIT PLAN LAYOUT (A2 SERIES).





DIMENSIONING ELEMENTS

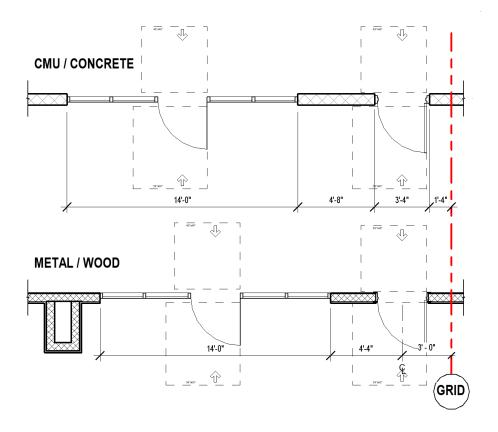
THE SAME ELEMENTS MAY NEED TO BE DIMENSIONED DIFFERENTLY DEPENDING ON WHERE THEY ARE LOCATED.

CONCRETE AND MASONRY WALL ELEMENTS ARE MEASURED DIFFERENTLY THAN WOOD & METAL STUDS WALL

STOREFRONT SYSTEMS ARE ALWAYS DIMENSIONED THE SAME WAY, REGARDLESS OF THE WALL THEY ARE EMBEDDED IN.

IN CONCRETE AND MASONRY WALLS, DOORS, WINDOWS, AND CLEAR OPENINGS ARE MEASURED TO THE EDGE OF THE OPENING.

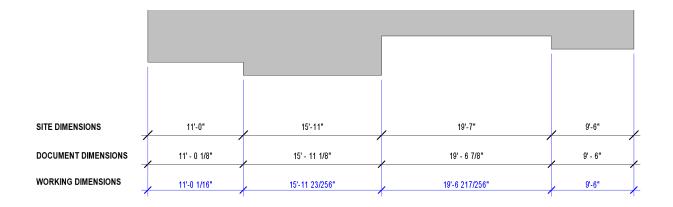
IN WOOD AND STUD WALLS, DOORS AND WINDOWS ARE MEASURED TO THE CENTER OF THE OPENING.





ORB DIMENSIONS

ACCURACY OF YOUR DIMENSIONS DEPENDS ON THE ACCURACY OF YOUR MODEL



ORB ANNOTATION DIMENSIONS (THOSE ULTIMATELY SHOWN ON PLANS) ARE SET TO AN ACCURACY OF 1/8".

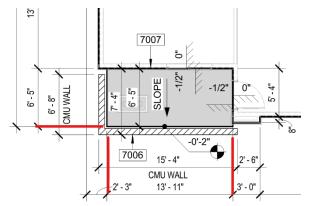
THIS DOES NOT MEAN THAT OUR MODELS SHOULD BE CREATED WITH LESS ACCURACY.

TRY TO AVOID 1/8" DIMENSIONS ON PLANS BY MODELING CORRECTLY, NOT BY HIDING THE IMPERFECTION WHENEVER POSSIBLE.

DON'T HIDE LAZY MODELING WITH DOCUMENT OR SITE DIMENSIONS

Format	×			
Use project settings				
Units:	Feet and fractional inches $\qquad \lor$			
Rounding:	Rounding increment:			
To the nearest 1/8"	~			
Unit symbol:				
	\sim			
Suppress trailing 0's				
Suppress 0 feet				
Show + for positive values				
Use digit grouping				
Suppress spaces				
	OK Cancel			





IT IS VERY EASY TO MISS DIMENSION ORDER WHEN WORKING ON A PROJECT. ALWAYS GO BACK AND CHECK YOUR WORK

OVERCROWDING OF DIMENSIONS CLUTTERS THE DRAWINGS AND MAKES IT HARD TO READ.

DON'T CROSS DIMENSION STRINGS. ADD MORE IF NEEDED OR SHIFT THEM TO THE INSIDE OF THE BUILDING.

SLAB PLANS

ON SLAB PLANS:

LAD FLANJ.	
1. EXTERIOR SLAB EDGES	2. TIE MAJOR ELEMENTS TO YOUR GRID LINES IF THEY ARE PART OF THE PROJECT
3. LOCATIONS WHERE SLABS HAVE A DIFFERENCE IN LEVEL	4. EXTERIOR COLUMN FOUNDATION SLABS
5. ELEVATOR PITS	6. PROVIDE SLOPES AND DIFFERENCES IN FINISH FLOOR ELEVATIONS SHOWN ON THIS PLAN
7. PATIO SLABS	

