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Learning Objectives

- 1. Use Autocad to prepare a simple floor plan.
- 2. Learn how to use coordinates in Autocad
- 3. Learn how to dimension drawing features
- 4. Lean how to make and insert blocks.

Assignment 5

- Use AutoCAD title block template file (.dwt file) to create a title block. An example of a title block is found below. Use the information shown below to populate the boxes of your title block. This title block will be used for the two drawings that you submit and other drawings this semester. Once you have finished the title block and contents, save it as a *.dwt file for future
 - use. (20 points)

Design Engineer	
Steven F. Bartlett	
UAC	
119 Songo Moonwha-Ro	Civil Engineering
Yeonsu-Gu Incheon	114 CME Bldg
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IGC Gymnasium Floor Plan	Residential Home
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Incheon Global Campus	Your name and address
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Phone 032-715-7795	
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Drawn By: Your Name (full name)	
Checked By: Steven F. Bartlett, P.E.	
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Title:	
Gymnasium, Floor Plan	House Floor Plan
Sheet:	
G-01	
Sheet 1 of 1	
© Steven F. Bartlett, 2023	

Assignment (continued)

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- Watch the three YouTube videos about making floor plans included in this lecture.
- a. Draw a floor plan and elevation view from the sketch given. The elevation view should be drawn thru the A A' section line. Make sure that all components of the home are labeled and dimensioned. Your dimensions should be in decimal feet. Be sure to make one dwg file for the plan view (50 points) and one dwg file for the cross-sectional view (30 points). Assume that all exterior walls are 1-ft (12-in) thick and interior walls are 0.5-ft (6-in) thick. Make sure that all walls are shown as double lines and windows are located.
- b. Use the title block developed in problem 1 for the drawings made in problem 2. SUBMIT THE TWO DRAWINGS AS PDF FILES to Canvas using the format HW5_lastname_firstname.pdf

Example Floor Plan - House Sketch - For Homework

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https://www.dreamstime.com/stock-illustration-floor-plan-house-sketch-technical-constructionarchitectural-flat-vector-illustration-image52483697



House Plan





L5 - Floor Plans Page 5

Floor Plans Videos

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Resources:

- 1. Work Books 1 and 2 Basics of AutoCAD
- 2. Videos

Making a simple floor plan in AutoCAD: Part 1 of 3 SourceCAD



Floor Plans Videos (continued)

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Making a simple floor plan in AutoCAD: Part 3 of 3

SourceCAD



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Block Basics: How to Create a Block in AutoCAD and Other Block Tips



A block is a combination of AutoCAD object types that make up a real-world object. For example, it could be a chair, manhole, door, utility pole, you name it.

Looking to learn how to create a block in AutoCAD? There are a few ways to do it. Here, we'll discuss different ways to make a block as well as some tips to get blocks to do what you want.

Understanding Blocks

Let's say we want to make a symbol for a telephone manhole from a bunch of CAD objects. And, on top of that, the manhole may be used to show that it is existing or that it is proposed, and they each need to look like the following image on the right.



https://www.autodesk.com/blogs/autocad/how-to-create-a-block-in-autocad/? redirected=1

Understanding Blocks (cont.)

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You could make two blocks each with their own layer properties—or you can leverage a really cool functionality in AutoCAD.

First, everything in AutoCAD goes on a layer and has object properties (e.g., color, linetype, lineweight, etc.), and this includes blocks. That said, the objects "inside" the block can also go on their own layers. If you make a block of objects on their own unique layers, AutoCAD "locks in" what layer those objects are on. No matter what layer the block is on, none of the AutoCAD objects will look like the properties of the block.

And this is where layer O comes in. You can leverage this cool feature in AutoCAD where any objects that are on layer O (and set to ByLayer) and are in the block will take on the blocks layer properties. Now, understanding this functionality, let's make one block called Telephone Manhole.

How to Create a Block in AutoCAD

To use the layer O functionality in your block, let's first set all the objects to layer O and set the properties to ByLayer.

Type "B" in the command line to open the Block Definition dialog box. Starting from left to right, give the block a name.

Now, you need to tell AutoCAD what the insertion point should be. In other words, when you place the block, the point about which the block appears at your cursor.





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Understanding Blocks (cont.)

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Click the Pick point button and choose the center of the circle.

Click the Select Objects button and select the objects you want to be stored in the block.

Be aware of the Block unit setting. AutoCAD has no idea what units in which you created the object; here is where to say what it is. Setting this will allow you to insert the block into other drawings with different units and to scale automatically.

If you have multiple block instances in the drawing, the objects inside the block will take on the block's layer properties for whatever layer each block is on. Here, the block on the left is on the layer ManholeTel_ep (existing) and the block on the right is on layer ManholeTel (proposed). Notice the grip at the center of the block. This is the insertion point that is defined.









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ByBlock...What the Heck is This Property?

Now, let's talk about the ByBlock property. I always get the question, "What the heck is this property for?" It's actually not that difficult to understand. The ByBlock property allows you to change the individual object properties in the block to use the block's property (e.g., color, linetype, lineweight, etc.)

Take a look at this example below. If I change the property of the outside circle to ByBlock for the color, linetype, and lineweight, it allows me to change the blocks property's and the circle will be affected by me doing so.



Understanding Blocks (cont.)

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A Quick Way to Create a Block in AutoCAD

The last thing I want to discuss is how to create a block in AutoCAD quickly and easily. First, press CTRL+SHIFT+C on the keyboard, and then snap to the "insertion" point where you want the block to be defined. Then, select the objects from which you want to make a block and press ENTER.

Now, all you do is press CTRL+SHIFT+V (Paste as Block), and you have an unnamed block.



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Adding Blocks from External Files

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Downloading Blocks

https://www.autodesk.com/support/technical/article/caas/tsarticles/ts/6XGQklp 3ZcBFqljLPjrnQ9.html

- Architectural Annotation, Scaling and Multileaders (dwg 185Kb)
- Architectural Example (Imperial) (dwg 145Kb)
- Blocks and Tables (dwf 99Kb)
- Blocks and Tables (Imperial) (dwg 222Kb)
- Blocks and Tables (Metric) (dwg 253Kb)
- Civil Example (Imperial) (dwg 166Kb)
- Color Wheel (dwg 1745Kb)
- Line Weights (dwg 57Kb)
- Mechanical Example (Imperial) (dwg 139Kb)
- Plot Screening and Fill Patterns (dwg 84Kb)
- <u>Tablet</u> (dwg 428Kb)
- Title Block (ansi) (dwg 123Kb)
- Title Block (arch) (dwg 124Kb)
- Title Block (iso) (dwg 125Kb)
- TrueType (dwg 69Kb)
- Visualization Aerial (dwg 716Kb)
- Visualization Condominium with skylight (dwg 1383Kb)
- <u>Visualization Conference Room</u> (dwg 951Kb)
- <u>Visualization Sun and Sky Demo</u> (dwg 540Kb)

From this list download the blocks and table file.

https://download.autodesk.com/us/samplefiles/acad/blocks and tables - imper ial.dwg

Save file this in a folder of your choice. The file is shown on the next page.





Methods of Drawing Lines - Dynamic Mode

- 3. From the Home Menu Select LINE
- 4. Click in the drawing to specify the first point of the line
- 5. In the blue box shown below, type in the desired distance of the line. Use the @ symbol for relative referencing and the # symbol for absolute referencing. For example @50' will make the line 50 units long RELATIVE FROM THE PREVIOUS POINT. Whereas #50' will make the line go the 50 coordinate position reference by the User Coordinate System. (Make sure that you use the ' symbol for feet followed by a hypen - followed by the "symbol for inches;



6. Toogle to the Angle box by using the TAB key and type in the desired angle. Note that a vertical angle is 90d (degrees) and a horizontal angle is 0d.





Methods of Drawing Lines - Drawing On a Grid

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