

DUE DATE _____

NAME _____

ENGR/DRAFT 105 Assignment #18
AutoCAD: Object Properties and Organization (Architectural) – Chapter 4

Note that you will have to create new title blocks for this assignment. Do not follow the “Setup Wizard” steps in the book – instead, follow the procedure shown below for setting up a B-size Architectural drawing with a $\frac{1}{4}''=1'$ scale. Note that you will not be including dimensions at this time.

- Hard copy of Lesson 4 Tutorial. (my file would be named NA_L4_F04.dwg)
- Hard copy of drawing 4_1 (Note: Create and use a new Multiline style. Hint: Use otrack with 45 degrees (not ortho) relative to last point. My file would be named NA_E4_1_F04.dwg)

Extra Credit (5 Points Max – The other drawings are worth 10 points):

Hard copy of drawing 4_3 (Note: The stairs and windows do not have to drawn exactly as shown in the book. My file would be named NA_E4_3_F04.dwg).

Note: Scale the drawings to fit on either an A or B size sheet. For example:

- Type MVSETUP
Enable paper space: NO
Enter units type: Architectural
Enter the scale factor: 48 (for $\frac{1}{4}''=1'$)
Enter the paper width: 17
Enter the paper height: 11
- Offset the page outline inward 0.5 inches (2') to create a border. Create the Title Block. Note: use the “text” command to create a “Style1” using “Romans” font.
- Type in, or select, the PLOT (sometimes called the PRINT) command:
Plot Device tab:
Name: (Look at one of the plotters that use the rolls of paper, versus the Dell Printer that uses single 8.5x11 A size sheets)
Plot style table (pen assignments):
Monochrome.ctb
Assign this plot style table to all layouts – yes

Plot Settings tab:
Paper size: ANSI B Landscape (Large) or ANSI C (22.00 x 17.00 Inches)
Plot area: Extents
Plot scale: for $\frac{1}{4}''=1'0''$
Plot offset: Center the plot
Full Preview: (If everything looks OK... Select OK)
- Cut the sheet to size using the trimmer.

Be sure to include the following (in the title block section) on each AutoCAD drawing:

DRAWING TITLE (e.g., FLOOR PLAN WITH STAIRS)
NAME (YOUR NAME)
FILENAME.dwg (e.g., NA_E4_3_F04.dwg)
Date (e.g., 10/23/04)
Scale (e.g., $\frac{1}{4}''=1'$)

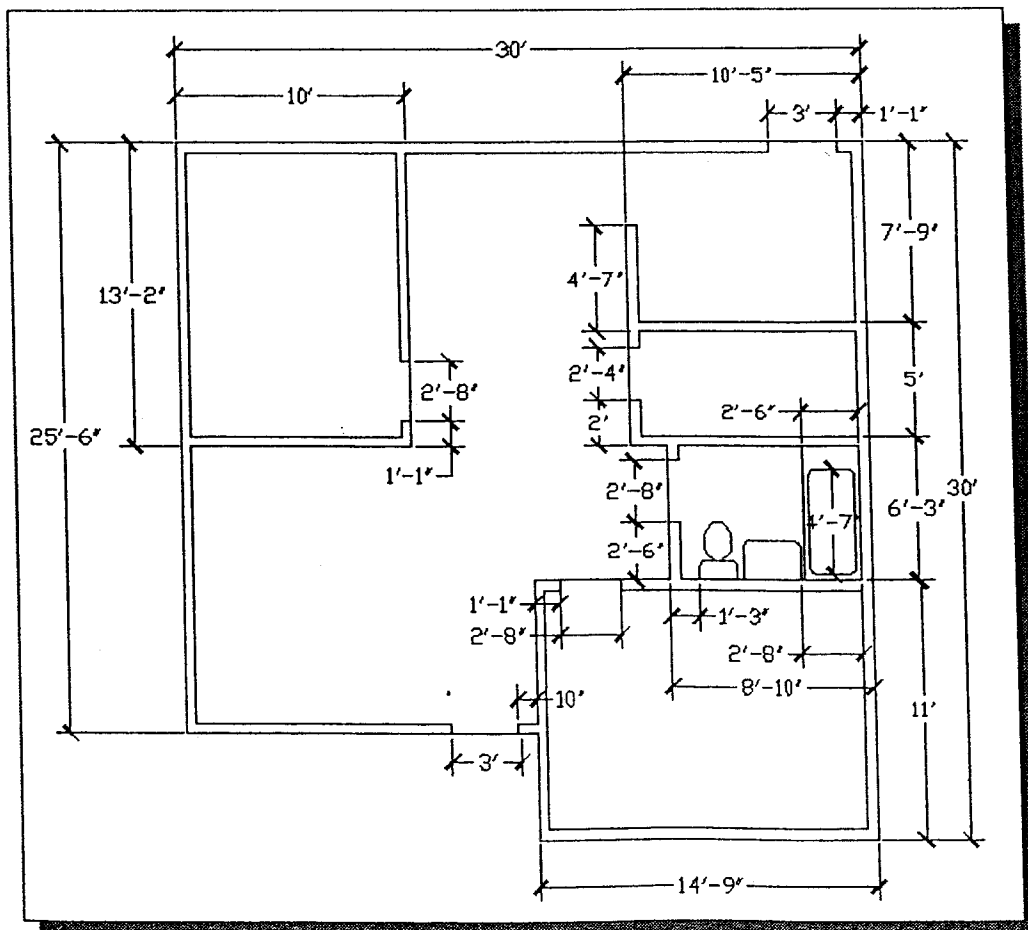
Staple this sheet to the front of your drawings in the correct order. Write your name at the top of the page. Please staple any 17” x 11” landscape sheets face up, and then fold back the right side to make the packet 8.5” x 11”.

Introduction

The CAD database of a design may contain information regarding the hundreds of CAD entities that are used to create the CAD model. One of the advantages of using a CAD system is its ability to organize and manage the database so that the designer can access the information quickly and easily. Typically, CAD entities that are created to describe one feature, function, or process of a design are perceived as related information and therefore are organized into the same group. In AutoCAD, the **Layer** command is used extensively for this purpose. For example, an architectural drawing typically will show walls, doors, windows, and dimensions. Using layers, we can choose to display or hide sub-systems for clarity; we can also change object properties, such as colors and linetypes, quickly and easily.

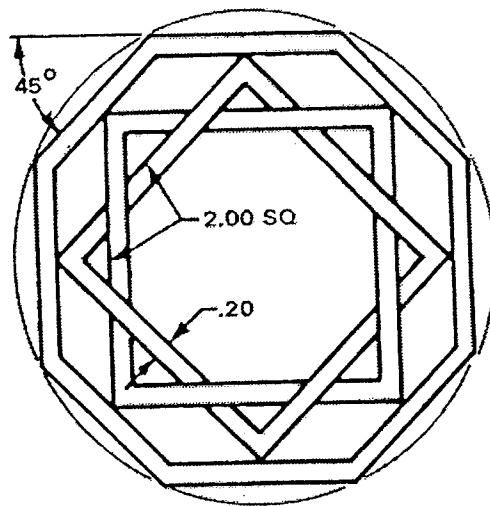
In this lesson, we will continue to explore the different construction and editing tools that are available in **AutoCAD® 2002**. We will demonstrate the use of the **Limits**, **Mline**, **Medit**, and **Layer** commands. As you become proficient with the CAD tools and understand the underlying CAD modeling concepts, you are encouraged to experiment with new ideas in using the CAD tools and develop your own style of using the system.

The Floor Plan Design



Exercises:

4_1. Dimensions are in inches.



3. Wall thickness: 5 inch

