Chapter 8
Setting Up a Drawing
List Command 8.1

1. **Choose** Tools, Inquiry, List.
   
   or

2. **Click** the List icon from the Inquiry Toolbar.
   
   or

3. **Type** LIST at the command prompt.
   
   Command: **LIST** or **LI**

4. **Pick** The object or objects to list.
   
   Select objects: **(select)**

5. **Press** ENTER when you are finished choosing objects:

![AutoCAD Text Window - Drawing L.dwg](image)
Measuring Distances 8.2

1. **Choose** Tools, Inquiry, Distance.
   
   or

2. **Click** the Distance icon from the Inquiry Toolbar.
   
   or

3. **Type** DIST at the command prompt
   
   Command: DIST

4. **Pick** The first point to measure from
   
   First point: pick point

5. **Pick** The second point to measure to
   
   Second point: pick point

   Distance Between Circle Centers

_TIP:_ Be sure to use Object Snaps with the MEASURE command.
AutoCAD 2D Tutorial

Calculating Areas 8.3

1. **Choose** Tools, Inquiry, Area.
   
   or

2. **Click** the Area icon.
   
   or

3. **Type** AREA at the command prompt
   
   Command: **AREA**

4. **Pick** The first point for area calculation
   
   <First point>/Object/Add/Subtract: **pick**

5. **Pick** Next point: **pick**

6. **Pick** Next point: **pick**

7. **Press** ENTER when you are finished choosing points.

Area of Rectangle

Object Allows user to pick an object to calculate area (circle or polyline).

Add Adds separate areas for a total area calculation

Subtract Subtracts areas from each other.

**TIPS:**

Be sure to use Object Snaps with the MEASURE command

To subtract an area, you must first be in “add” mode to add the first area.
Quick Calc 8.4

Performs a full range of mathematical, scientific, and geometric calculations, creates and uses variables, and converts units of measurement.

1. **Choose** Tools, Quick Calc

   or

2. **Click** the quick calc icon from the standard toolbar.

   or

3. **Press** CTRL + 8.
ID Command 8.5

1. **Choose** Edit, Inquiry, Locate Point.
   or
2. **Click** the Locate Point Icon from the Inquiry Toolbar.
   or
3. **Type** ID at the command prompt.
   Command: ID
4. **Pick** A point to identity
   Point: *pick point*

**TIP:**
AutoCAD returns the X, Y, and Z coordinates as well as making this the last point entered in the drawing (to move relative from)
Be sure to use Object Snaps with the ID command.
**UNITS Command 8.6**

1. **Choose** Format, Units...
   
   or

2. **Type** DDUNITS at the command prompt.
   
   Command: **DDUNITS or UN**

3. **Choose** a units and angle setting.

4. **Choose** a precision setting.
Drawing Limits 8.7

The drawing limits are two-dimensional points in the World Coordinate System that represent a lower-left limit and an upper-right limit. The drawing limits also govern the portion of the drawing covered by the visible grid and determine the minimum area a ZOOM All displays.

1. **Choose** Format, Drawing Limits.
   
2. **Type** LIMITS at the command prompt
   Command: **LIMITS**

3. **Type** One of the following options
   On/Off/Lower left corner <.000,0.000>: **0,0**

4. **Type** One of the following options for the upper right limit:
   Upper right corner <5.0000,2.0000>: **36,24**

Drawing with lower left limit of 0,0 and upper right limit of 36,24

**TIPS:**
You can also pick points to define the limits.

The limcheck variable controls whether or not you can draw outside the limits that are set. A setting of 0 (off) indicates that you can draw outside the limits and a setting of 1 (on) indicates that you cannot.
Plot Scales and Paper Sizes 8.8

The following is an example of setting up an AutoCAD drawing for a D size sheet of paper (36 x 24) with a scale of 1/16 = 1’.

1. **Size**  
The object you’re drawing.

2. **Border Size**  
36 x 24 plotted, 576’ x 384’ drawn.
   
   For some plotters, deduct a 1/2 margin on top, bottom, and left, and a 1 margin on the right.

3. **Limits**  
Lower left limit 0,0.
   
   Upper right limit 576’, 384’.

4. **Text Height**  
for 1/8 notes, multiply by 192 which is the reciprocal of the plot scale.
   
   1/8 plotted, 24” drawn.

5. **Hatch Scale**  
for patterns other than architectural.
   
   Hatch Scale = 192

6. **Dimension Scale**  
Dimscale = 192

7. **Ltscale**  
Ltscale = 96

*Determine your object size*
Decide Border (Paper) Size

Decide the Scale Factor for Object which is at least 212’, 212’. To do this, multiply the scale factor x paper size. (i.e.: 1/16”=1’-0’ has scale factor 192)
Set Drawing Limits

Determine Dim Scale, Hatch Scale, Ltscale, and Text Height

DIMSCALE 192

HATCHSCALE 192

TEXT HEIGHT

LTSCALE 96 (1/2 scale)
8.9 Scalelistedit Command

Controls the list of scales available for layout viewports, page layouts, and plotting.

1. **Choose** scalelistedit from the Format menu.

   or

2. **Type** scalelistedit at the command prompt.