

Step 26. When you have completed Exercise 7-1, save your work in at least two places.

Step 27. Use a Layout Wizard or Page Setup Manager to create a Layout tab named Floor Plan. Plot or print Exercise 7-1 to scale.



TIP: If you need to plot all layers black instead of the colors they have been assigned, CLICK: **monochrome.ctb** in the Plot style table (pen assignments) list in the Plot dialog box (or the Page Setup dialog box). CLICK: **Edit** to the right of the Plot Style to make sure that the color selected is Black and Grayscale: is OFF.

Exercise 7-2: Hotel Room Floor Plan

In Exercise 7-2, the AutoCAD Design Center is used to insert existing fixtures such as a tub, toilet, sink, and faucet into the floor plan. Lineweights are used to make the drawing more attractive, and a solid hatch pattern with a gray color is used to make the walls solid. When you have completed Exercise 7-2 your drawing will look similar to Figure 7-27 without dimensions.

Step 1. Use your workspace to make the following settings:

1. Use SaveAs... to save the drawing with the name CH7_EX2.
2. Set drawing Units: Architectural
3. Set Drawing Limits: 30',40'
4. Set GRIDDISPLAY: 0
5. Set Grid: 12"
6. Set Snap: 6"
7. Create the following Layers:

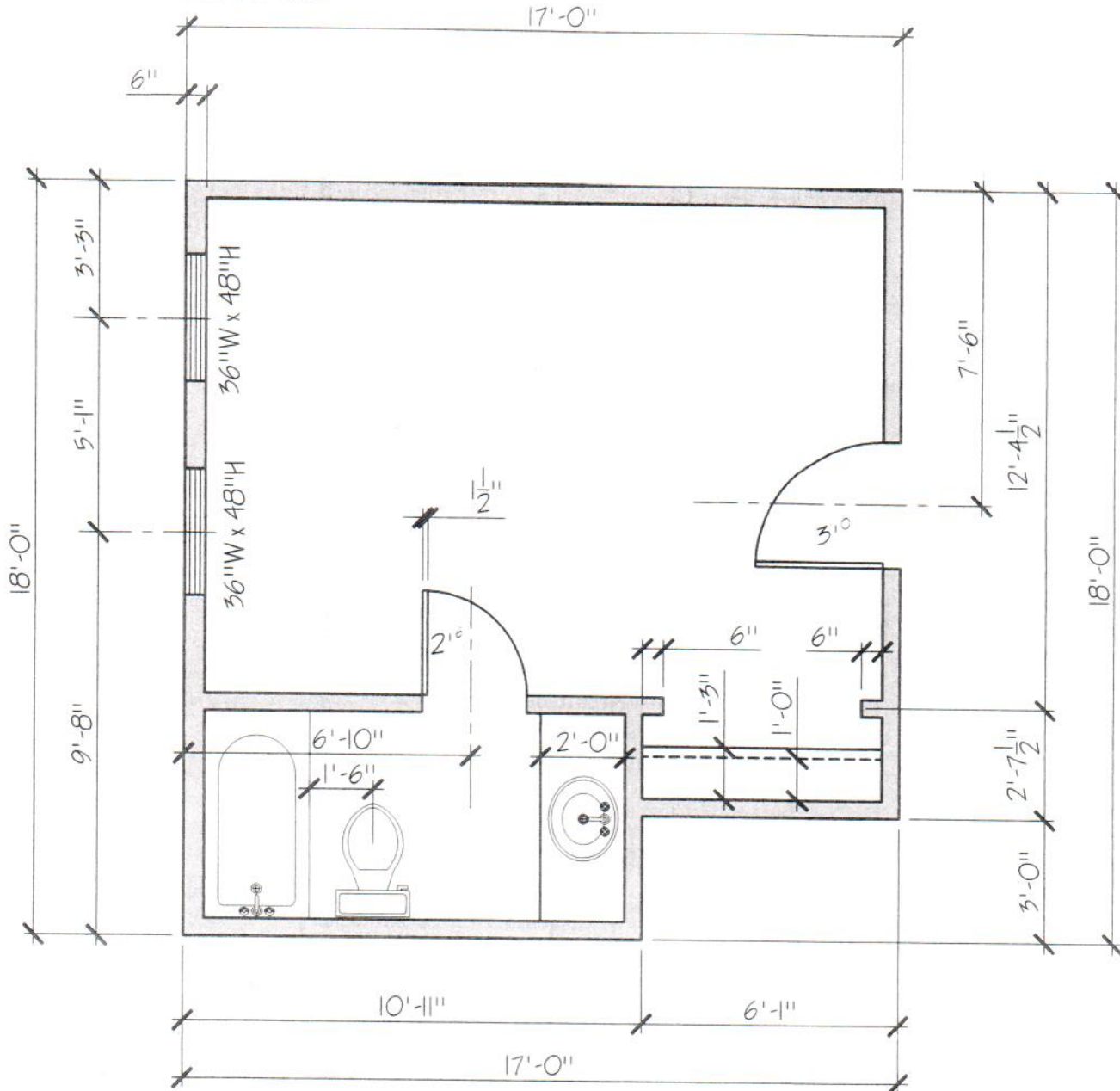
LAYER NAME	COLOR	LINETYPE	LINEWEIGHT
Bath	Magenta	Continuous	0.15mm
Center line	Cyan	CENTER	0.09mm
Dim	Cyan	Continuous	0.09mm
Door	White	Continuous	0.15mm
Faucet	Magenta	Continuous	0.05mm
Floor Plan Text	White	Continuous	Default
Furniture	Green	Continuous	0.15mm
Hatch	253	Continuous	default
Rod	White	HIDDEN	default
Walls	White	Continuous	0.30mm
Window	White	Continuous	0.15mm

8. Set Layer Walls current.

Step 2. Use Polyline to draw the outside walls:

Prompt	Response
Command:	Polyline (or TYPE: PL<enter>)
Specify start point:	TYPE: 24',24'<enter>

NOTE:
ALL WALLS ARE 5" WIDE EXCEPT FOR THE 6" OUTSIDE WINDOW WALL



HOTEL ROOM FLOOR PLAN

SCALE: 1/4" = 1'-0"

FIGURE 7-27

Dimensions for Exercise 7-2 Hotel Room Floor Plan (Scale: 1/4" = 1'-0")

Prompt	Response
Specify next point or [Arc/Halfwidth/Length/Undo/Width]:	Turn ORTHO ON, move your mouse straight up, and TYPE: 6' <enter>
Specify next point or [Arc/Close/Halfwidth/Length/Undo/Width]:	Move your mouse to the left, and TYPE: 17' <enter>

Prompt	Response
Specify next point or [Arc/Close/ Halfwidth/Length/Undo/Width]:	Move your mouse straight down, and TYPE: 18' <enter>
Specify next point or [Arc/Close/ Halfwidth/Length/Undo/Width]:	Move your mouse to the right, and TYPE: 10' 11 <enter>
Specify next point or [Arc/Close/ Halfwidth/Length/Undo/Width]:	Move your mouse straight up, and TYPE: 3' <enter>
Specify next point or [Arc/Close/ Halfwidth/Length/Undo/Width]:	Move your mouse to the right, and TYPE: 6' 1 <enter>
Specify next point or [Arc/Close/ Halfwidth/Length/Undo/Width]:	Move your mouse straight up, and TYPE: 6' <enter>
Specify next point or [Arc/Close/ Halfwidth/Length/Undo/Width]:	<enter>

Step 3. On your own (Figures 7–27 and Figure 7–28):

1. Offset the polyline just drawn 5" to the inside.
2. Explode the offset polyline and move the inside line on the left 1" to the right to make a 6" wall on the window side. Trim where necessary, or use 0 distance chamfer to make square corners.
3. Draw the following:
 - remaining walls
 - closet shelf and rod (hidden line)
 - door and window openings
 - doors

Do not draw the window. It will be inserted as a block later.

4. Change LTSCALE as needed to show the Hidden linetype of the rod.

Hatch

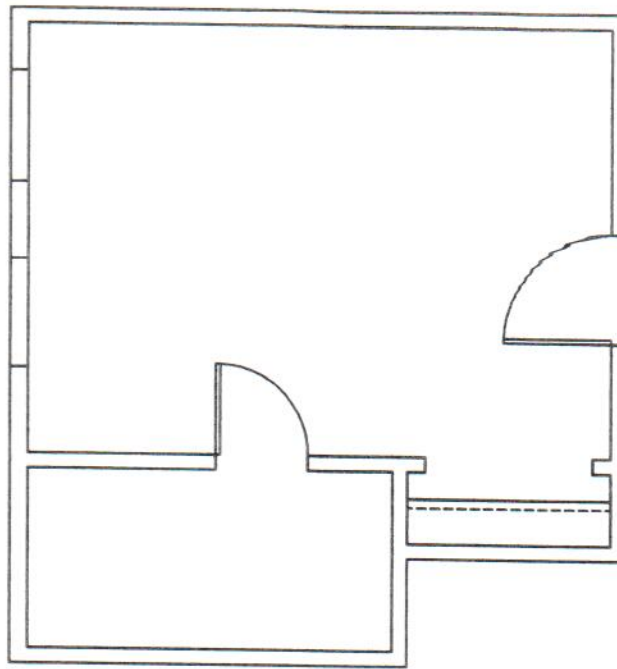
Next you will add a solid hatch pattern to shade the walls of the hotel room. The most important aspect of using the Hatch command is to create a clear boundary for the hatch pattern. If the boundary of the hatching area is not clearly defined, the Hatch command will not work, or will not appear, as you want it to. Any small gap at intersections will cause an error message with the Hatch command.

Step 4. Set Layer Hatch current.

Step 5. Use the Hatch command to add shading to the walls of the hotel room:

Prompt	Response
Command: The Hatch and Gradient dialog box appears:	Hatch (or TYPE: H <enter>) CLICK: Predefined in the pattern Type area CLICK: ... (to the right of the Pattern: list box) CLICK: the Other Predefined tab

FIGURE 7-28
Complete Outside and Inside
Walls and Closet Details



Prompt	Response
	CLICK: SOLID CLICK: OK CLICK: Add: Pick points
Pick internal point or [Select objects/remove Boundaries]:	CLICK: any point inside the lines defining the walls
Pick internal point or [Select objects/remove Boundaries]: The Hatch and Gradient dialog box appears:	<enter> CLICK: Preview or OK

The walls are now hatched. If you get an error message, check that there are no gaps in the lines that form the boundaries for the walls.

Step 6. Set Layer Bath current.

Step 7. Open the AutoCAD DesignCenter and locate the House Designer drawing (Figure 7-29):

Prompt	Response
Command: The DesignCenter appears;	TYPE: DC<enter> CLICK: the + to the left of House Designer .dwg (follow path shown in Figure 7-29) CLICK: Blocks
The available blocks appear in the area to the right:	DOUBLE-CLICK: Bath Tub = 26 × 60 in.

FIGURE 7-29
 Select the Bath Tub =
 26 × 60 in. Block from the
 DesignCenter and Insert It.

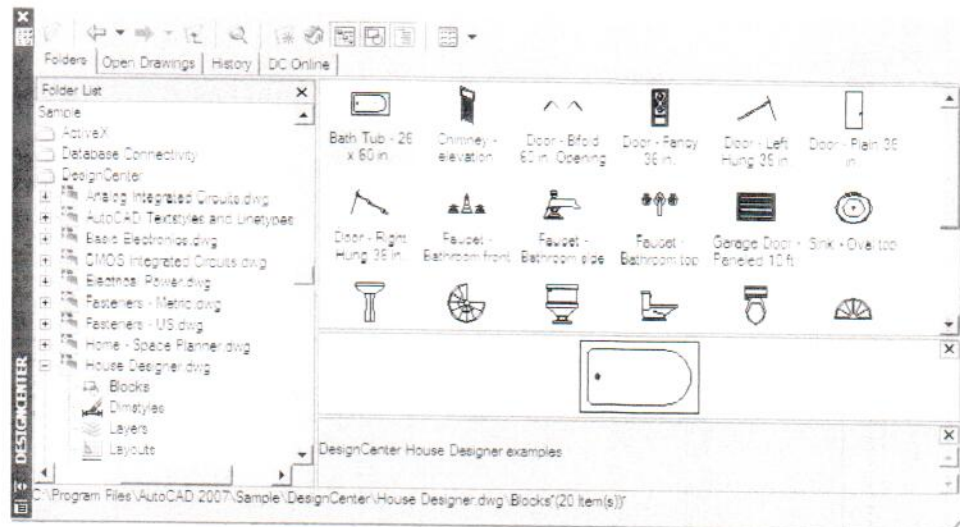
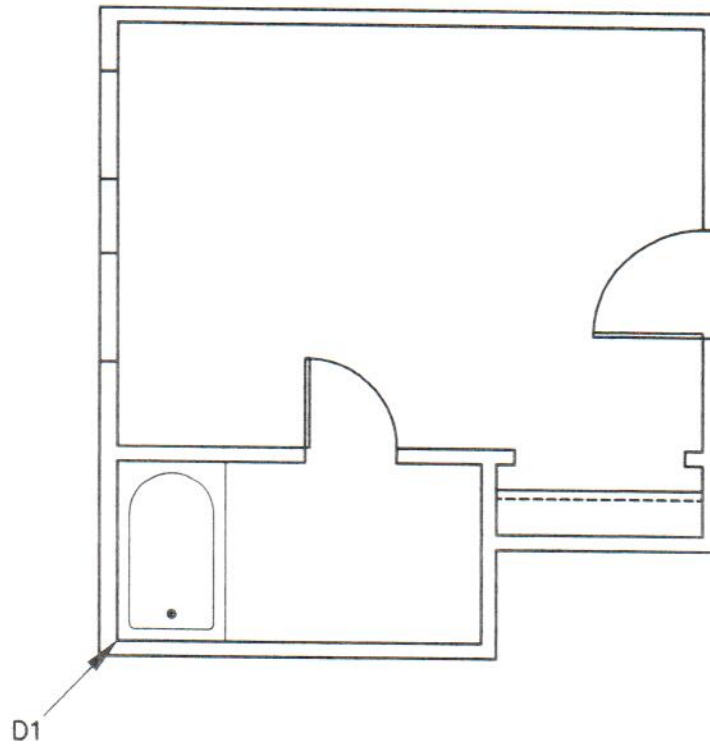


FIGURE 7-30
 Insert the Bath Tub

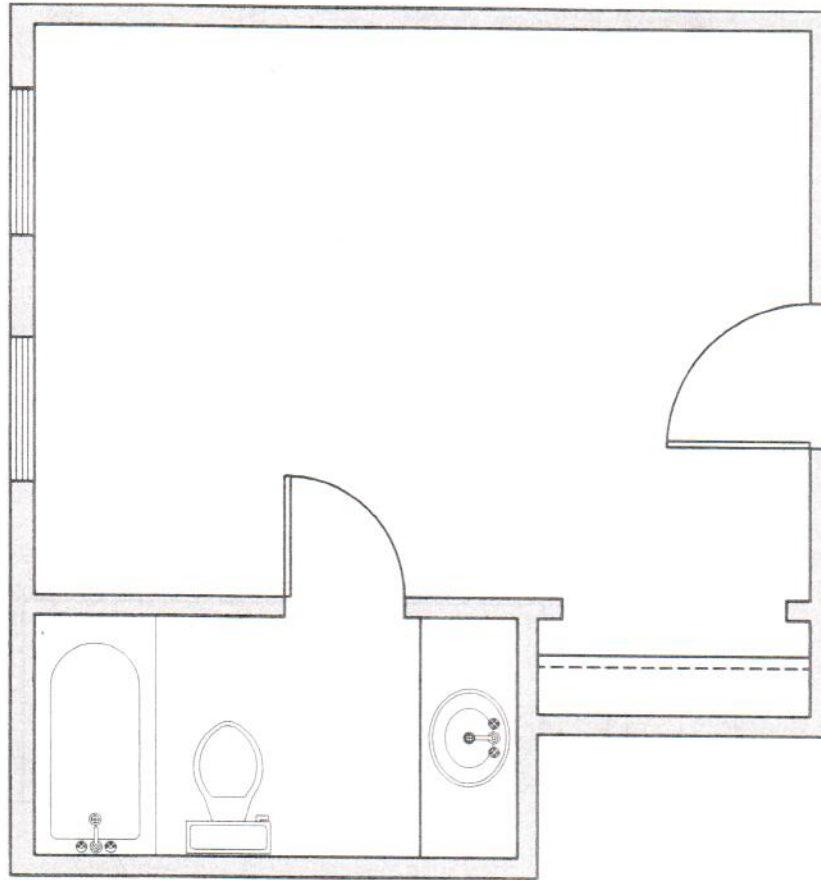


Prompt	Response
The Insert dialog box appears;	TYPE: 90 in the Rotation - Angle: box CLICK: OK
Specify insertion point or [Basepoint/Scale/X/Y/Z/Rotate]:	CLICK: D1 (Figure 7-30)

FIGURE 7-31

Exercise 7-2 Complete
(Scale: 1/4" = 1'-0")

YOUR NAME



HOTEL ROOM FLOOR PLAN

SCALE: 1/4" = 1'-0"

Step 8. On your own:

1. Insert the toilet and sink in the locations shown in Figure 7-31, and draw the 2'-0" line showing the countertop for the sink.
2. Set Layer Faucet current and insert the top view of the faucet in the locations shown in the bathtub and sink. You will have to insert it on the Faucet layer because the faucet is so detailed the lines will flow together unless they are very thin.
3. Insert the 36" wood frame windows in the location shown on the Window layer.
4. TYPE: the following in the City Blueprint font to complete the drawing:

HOTEL ROOM FLOOR PLAN underscored, centered, 8" high

The scale, centered, 5" high

Your name, 5" high

Step 9. Save your drawing in at least two places.

- Step 10.** Plot the drawing at a scale of 1/4" = 1'-0" centered vertically on an 8-1/2" x 11" sheet.
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