CHAPTER 13 EXERCISES

1. Metric Drawing Setup

Create a template drawing for use in metric drawings to be plotted at a scale of 1 to 1. Begin a *New* drawing and *Start from Scratch*; use the *Metric* default settings. Next, follow the steps listed below.

- A. Set *Units* to *Engineering* and *Precision* to **0**.
- B. Set *Limits* for a B-size sheet (11x17). To convert from inches to millimeters multiply by 25.4 to achieve *Limits* of **431.8,279.4**, then *Zoom All*.
- C. Set Grid and Grid Snap to 10.
- D. Load the Center2, Hidden2, and Phantom2 Linetypes.
- E. Create the following *Layers* and change their *Color*, *Linetype*, and *Lineweight* as indicated.

OBJECT	continuous	red	0.40mm
CENTER	center	yellow	Default
PHANTOM	phantom	blue	Default
HIDDEN	hidden	magenta	Default

F. *Save* the drawing as **METRIC-B**.

2. Mechanical Engineering Drawing Setup Using the Quick SetupWizard

Create a template for a drawing to be plotted on C-size paper at a scale of 3/4" = 1". Use the *Quick Setup Wizard* to assist with the following setup. (Make sure the new drawing is based on the template ACAD.DWT.)

- A. In the *Units* section select *Decimal*.
- B. In the *Area* section specify **29.3** and **22.7**, then select the *Finish* button.
- C. Zoom All.
- D. Set Grid Snap to .25.
- E. Set *Ltscale* to **1.33**.
- F. Load the Center2, Hidden2, and Phantom2 Linetypes.
- G. Create the following *Layers* and assign the *Color*, *Linetype*, and *Lineweight* as indicated.

continuous	red	0.016''
center	yellow	Default
phantom	blue	Default
hidden	magenta	Default
	phantom	center yellow phantom blue

H. Save the drawing as MECH3-4 -C.

3. Architectural Drawing Setup

Create a template for an architectural drawing to be plotted on B-size paper at a scale of 1/4" = 1". Use *Start from Scratch*, with the *English* default settings. Continue using the following setup.

- A. Set the *Units* to *Architectural*.
- B. Set the *Limits* to 72′,48′, then *Zoom All*.
- C. Set *Grid* to 12 and *Grid Snap* to 12.
- D. Set *Ltscale* to 48.
- E. Load the Center2, Hidden2, and Phantom2 Linetypes.
- F. Create the following *Layers* and assign the *Color*, *Linetype*, and *Lineweight* as indicated.

OBJECT	continuous	red	$0.016^{\prime\prime}$
CENTER	center	yellow	Default
PHANTOM	phantom	blue	Default
HIDDEN	hidden	magenta	Default

G. *Save* the drawing as **ARCH1-4-B**.

4. Civil Engineering Drawing Setup Using the Advanced Drawing Setup Wizard

Create a template drawing using the *Advanced Drawing Setup Wizard*. The template is for a 1″=20′ drawing using feet and decimal feet on an engineering D-size sheet.

- A. In the *Units* section select *Architectural*.
- B. Accept all the defaults for angular settings by selecting the *Finish* button.
- C. In the Area section specify units of 680' and 440', then select Finish.
- D. Zoom All.
- E. Set *Grid* to 20' and *Grid Snap* to 1'.
- F. Load the Center2, Hidden2, and Phantom2 Linetypes.
- G. Set Ltscale to 240.
- H. Create the following *Layers* and change their *Color*, *Linetype*, and *Lineweight* as indicated.

OBJECT	continuous	red	0.016''
CENTER	center	yellow	Default
PHANTOM	phantom	blue	Default
HIDDEN	hidden	magenta	Default

I. *Save* the drawing as CIVIL20-D.