CHAPTER 19 EXERCISES

1. Open Traverse

Open the drawing entitled CE18EX1 from the Chapter 18 exercises. Select the Layout tab to switch to paper space. Draw a Rectangle 22” x 17” to represent the border for a C-size sheet. Use Vports to create a viewport to model space and set the ZoomXP factor for 1”=20’ by using a scale factor of 1/240XP. Add a title and scale note to the drawing in paper space as shown in Figure CE19-1. SaveAs CE19EX1.

2. Septic Tank

Begin a New drawing and use the Drawing Template File for Architectural, English units. Switch to model space by selecting the Model tab. Complete the drawing of the septic tank shown in Figure CE19-2. Include text but omit dimensions. Text height should be set to 3”.

Figure CE19-1

Figure CE19-2
3. Multiple Viewports

Open the drawing CE16EX2 from the Chapter 16 exercises. In the Layout, draw a border for a D-size sheet and include the titleblock shown in Figure CE19-4 in the lower right corner.

Create two viewports and set up a plan view and a detail as shown in Figure CE19-5. The plan view should be at a scale of 1/8"=1'-0" and the detail view should be at 1"=1'-0. Label each view with the title and scale. Be sure your viewports are on a separate layer and set this layer to Not Plot with the Layer Properties Manager. Plot the drawing and check the scale of each view. SaveAs CE19EX3.

4. Plan and Profile

Open a template drawing with the Architectural, English units. Set Units to Engineer’s. Draw the plan view of the pond in model space (Fig. CE19-6). The bottom of the pond is 40’ long by 10’ wide with a 3’ radius on the corners. Each contour is 3’ apart to create a 3:1 slope for the sides. Switch back to Layout view and set the ZoomXP factor in the viewport (viewport scale) to ¼”=1'-0".
Draw the profile of the pond as a cross-section through the center; this should be done in the Layout. Note that the vertical scale of the profile will be twice that of the horizontal scale. Use Osnap s to create construction lines from the plan view. Label each view. SaveAs CE19EX4. Plot the drawing to check for accuracy in the scales.