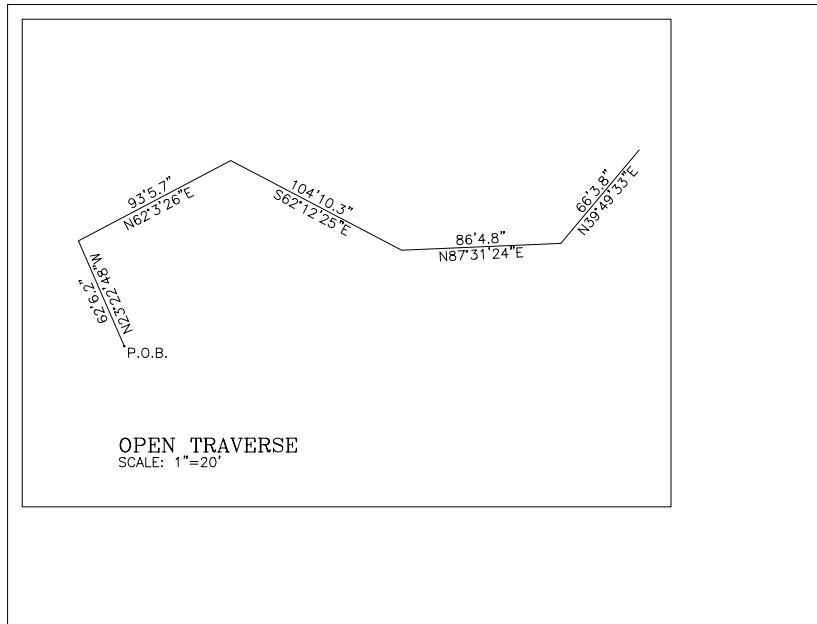


CHAPTER 19 EXERCISES

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**.

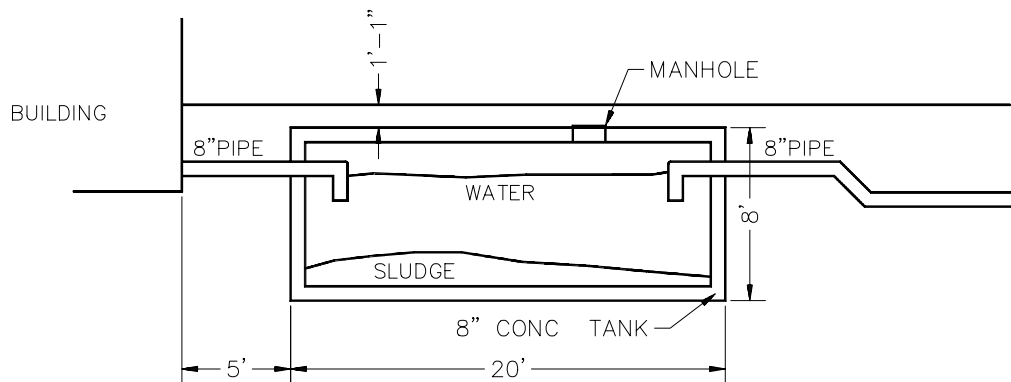
Figure CE19-1



2. Septic Tank

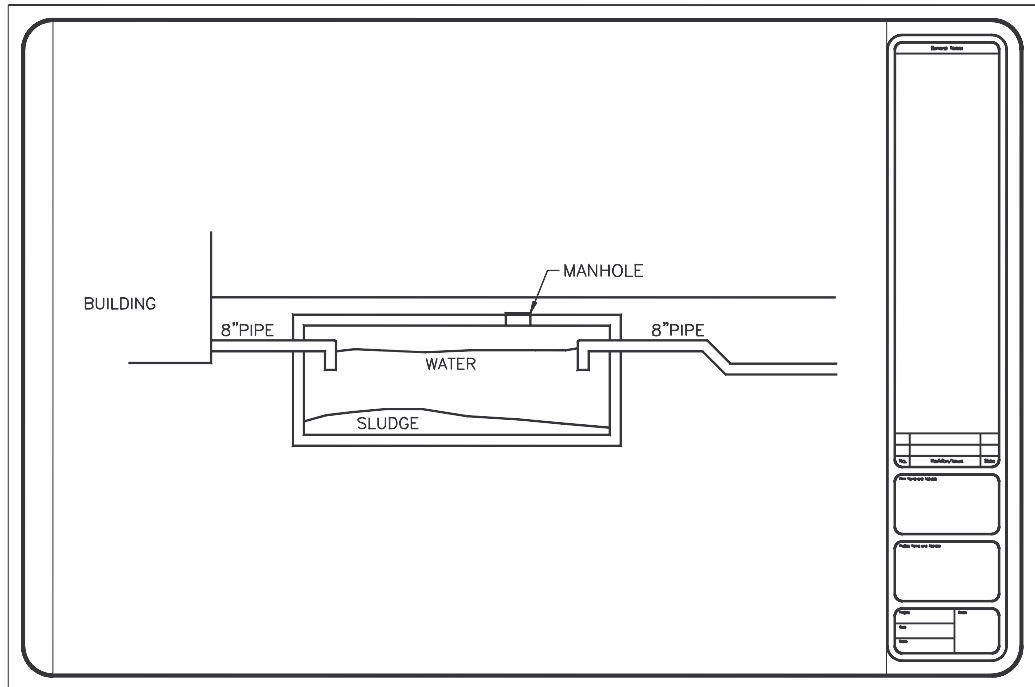
Begin a *New* drawing and use the **Drawing Template File for Architectural, English units**. Switch to model space by selecting the **Model** tab. Complete the drawing of the septic tank shown in Figure CE19-2. Include text but omit dimensions. **Text height** should be set to 3".

Figure CE19-2



Select the *Layout* tab to view the border and drawing. In the viewport, set the *ZoomXP* factor or viewport scale so that the drawing scale will be $\frac{1}{2}''=1'-0''$ as shown in Figure CE19-3. *Plot* the *Layout* at a scale of 1:1 on D-size paper. *SaveAs* CE19EX2.

Figure CE19-3



3. Multiple Viewports

Figure CE19-4

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 $\frac{1}{8}''=1'-0''$ 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*.

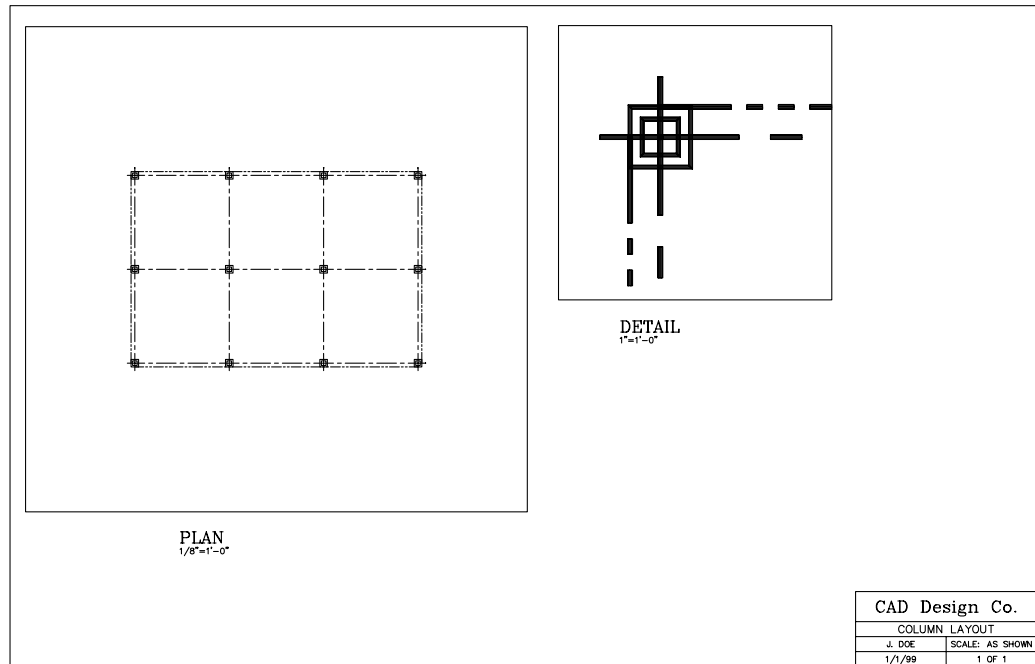
Plot the drawing and check the scale of each view. *SaveAs* CE19EX3.

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COLUMN LAYOUT	
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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 $\frac{1}{4}''=1'-0''$.

Figure CE19-5



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 *Osnaps* to create construction lines from the plan view. Label each view. *SaveAs CE19EX4*. *Plot* the drawing to check for accuracy in the scales.

Figure CE19-6

