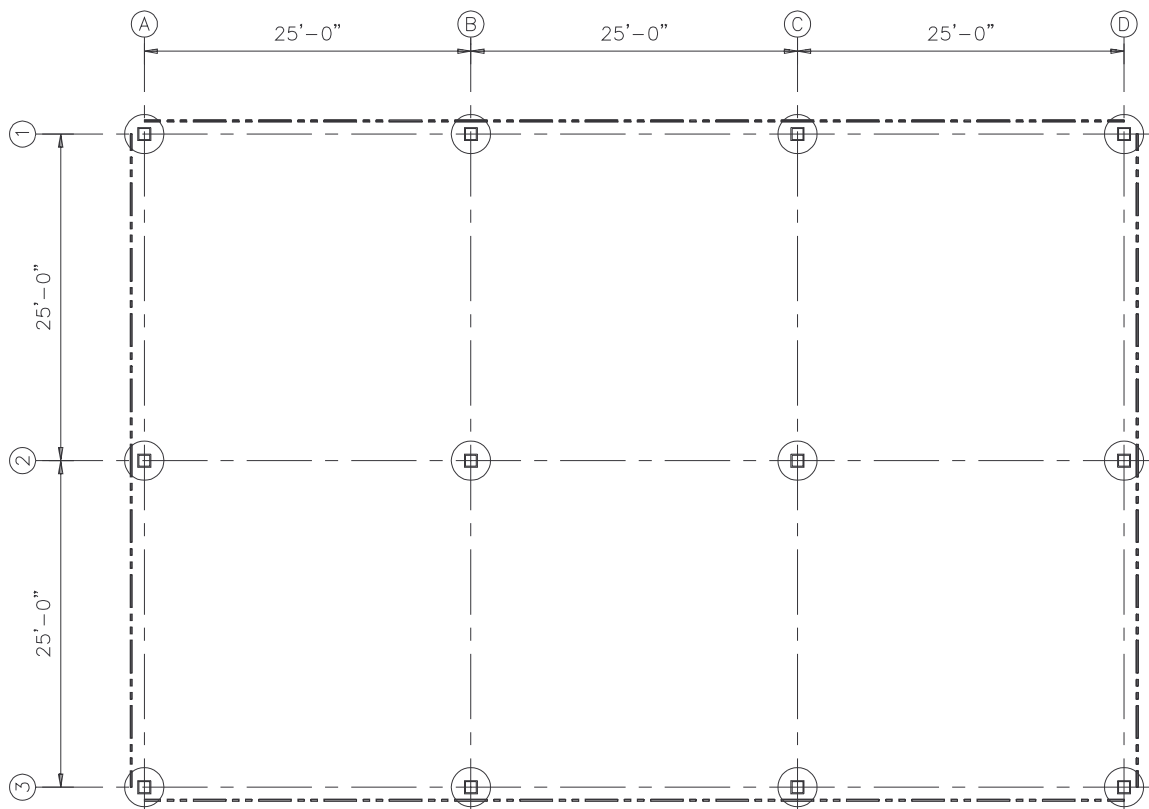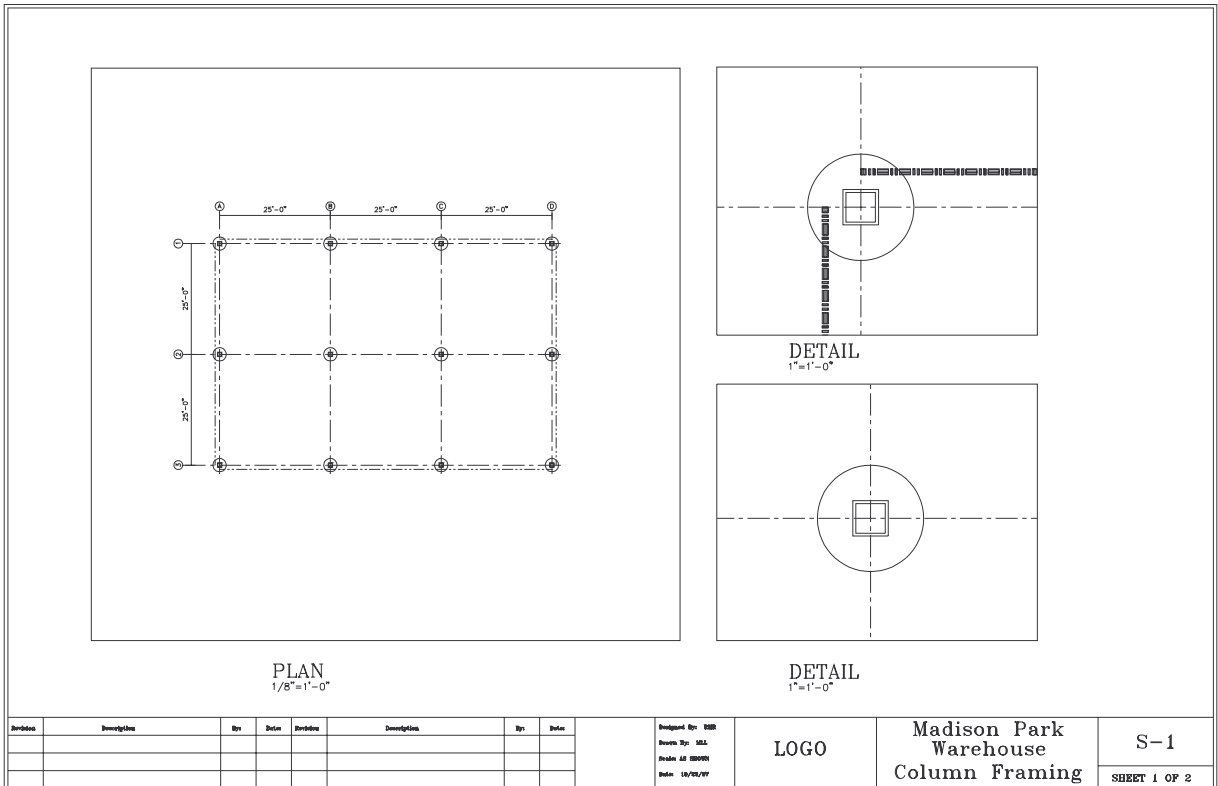# CHAPTER 33 EXERCISES

**1. Column Framing Plan**

*Open* the **CE16EX2** drawing from the Chapter 16 Exercises.  Modify the columns to be TS10x10x1/2 and the foundation piers to be 36″ diameter as shown in Figure CE33-1.  Add column lines and dimensions as shown (*DIMSCALE* should be set to **96**).  Activate a *Layout* and *Insert* **TBLK_D** into paper space.  Modify the titleblock as necessary for the correct drawing title.

**Figure CE33-1**

Create three viewports as shown in Figure CE33-2 (one for the plan and two for enlarged detail views of the plan). The plan view should be scaled to plot at 1/8″=1′-0″ (**Zoom 1/96XP**) and the detail views should be set to plot at 1″=1′-0″. Add labels and scale notes to each view of the drawing. In order to display linetypes correctly, set **PSLTSCALE** to **1** and set the **LTSCALE** to **.5**. *SaveAs* **FRAMEPLN**.
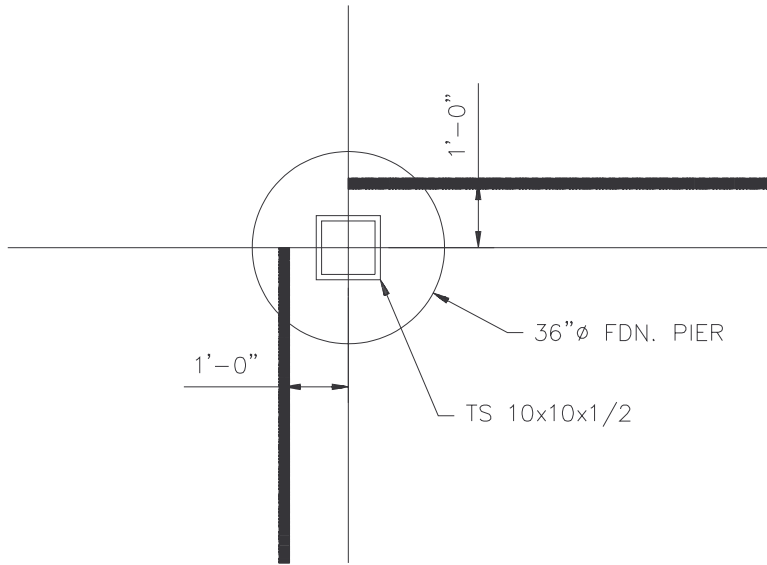
**Figure CE33-2**
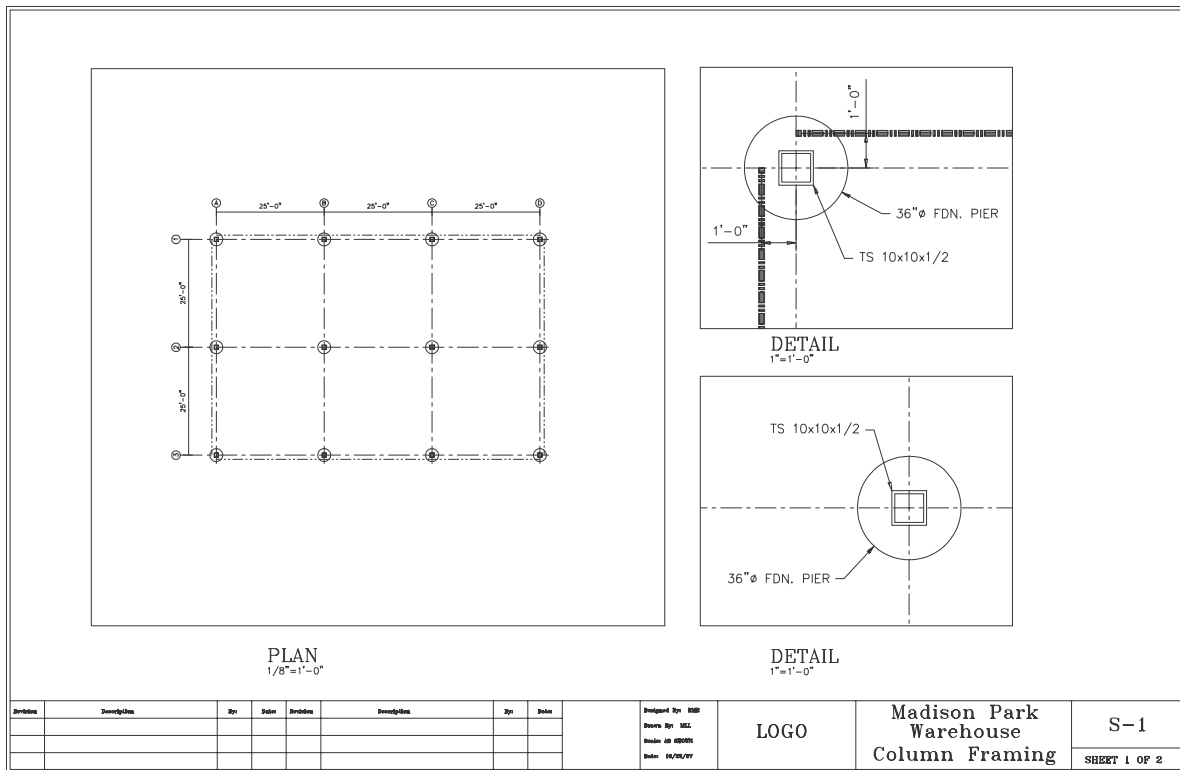
**2.  Detail Plans**

**Figure CE33-3**

Continue working on the drawing from the previous exercise.  Create an additional *Layer* for the dimensions to be added to the detail views (e.g., **DIM2**).  In model space, dimension the exterior column detail as shown in Figure CE33-3, using a *DIM-SCALE* of **12**.  For the interior column detail, simply add *Leaders* to indicate the size of the column and the founda-tion pier.  You will notice that these dimensions will appear in the overall plan view also.



In model space, select the overall plan viewport, and through the *Layer Control* drop-down list *Freeze* the **DIM2** layer in that viewport only (Fig. CE33-4).  In paper space, *Freeze* the layer for the viewports.  *Save* your work.
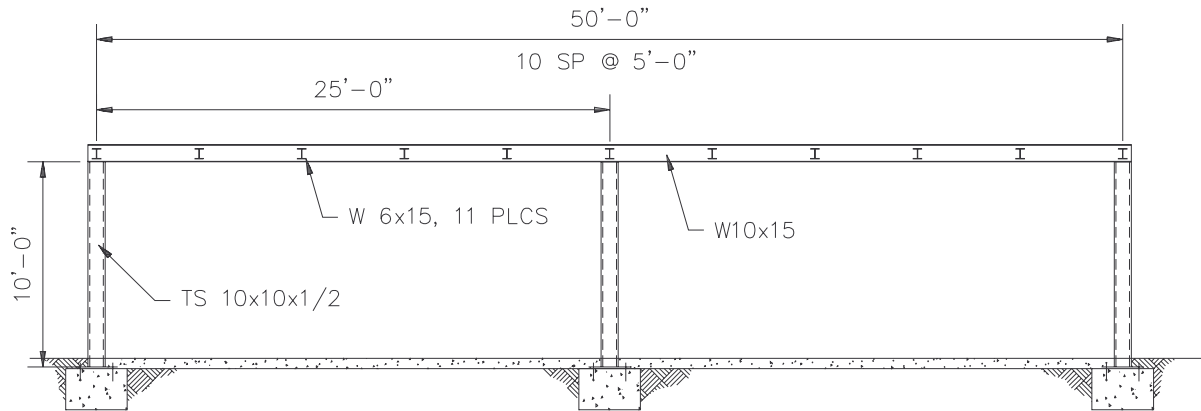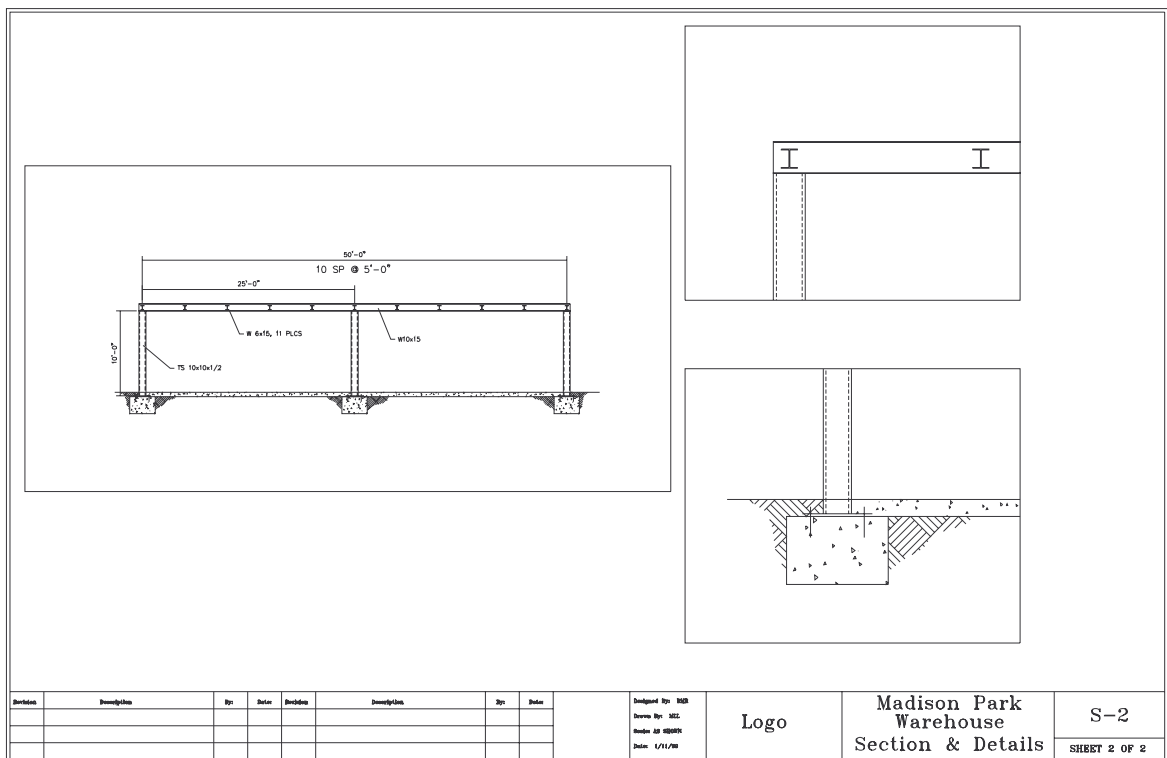
**Figure CE33-4**

**3. Framing Section**

*Open* the **FRAMING** drawing from the Chapter 26 Exercises. In model space, add dimensions as shown in Figure CE33-5. Set the *DIMSCALE* so that the view will plot at ¼"=1'-0".

**Figure CE33-5**



In the *Layout*, add two more viewports as shown in Figure CE33-6. Scale these detail views to 1"=1'-0". Use the *Layer Properties Manager* so that the dimensions from the full section do not display in the detail views. Remember to change the necessary settings to have the linetypes plot correctly. *Save* your changes.

**Figure CE33-6**

#### 4.  Connection Details

Continue working on the **FRAMING** drawing from the previous exercise. In paper space, dimension the detail views as shown in Figure CE33-7 and CE33-8.  In order to dimension correctly in paper space, set the *DIMSCALE* to **1** and the *DIMLFAC* to **12** (since the drawing is 1/12 scale).  To complete the drawing, add labels and scale notes to each view and *Freeze* the viewports layer.
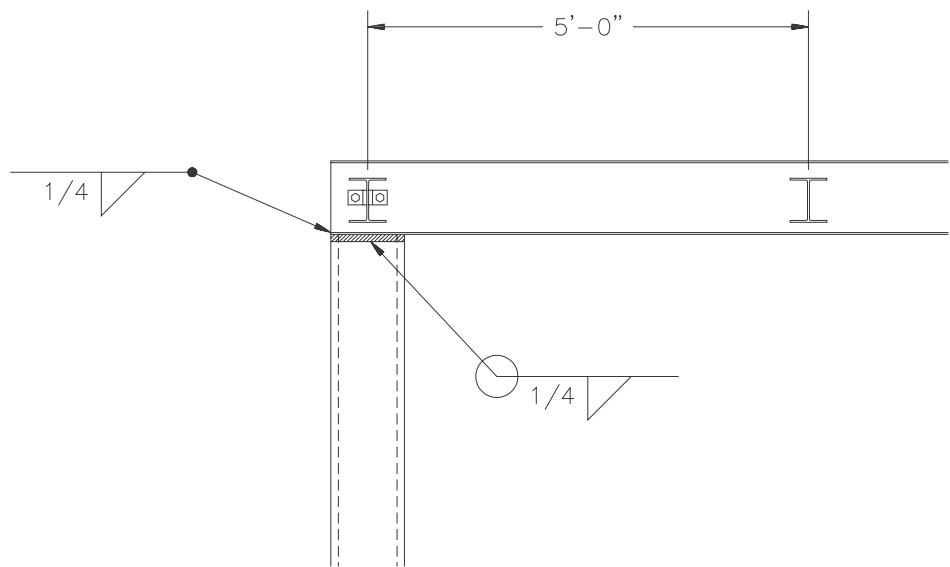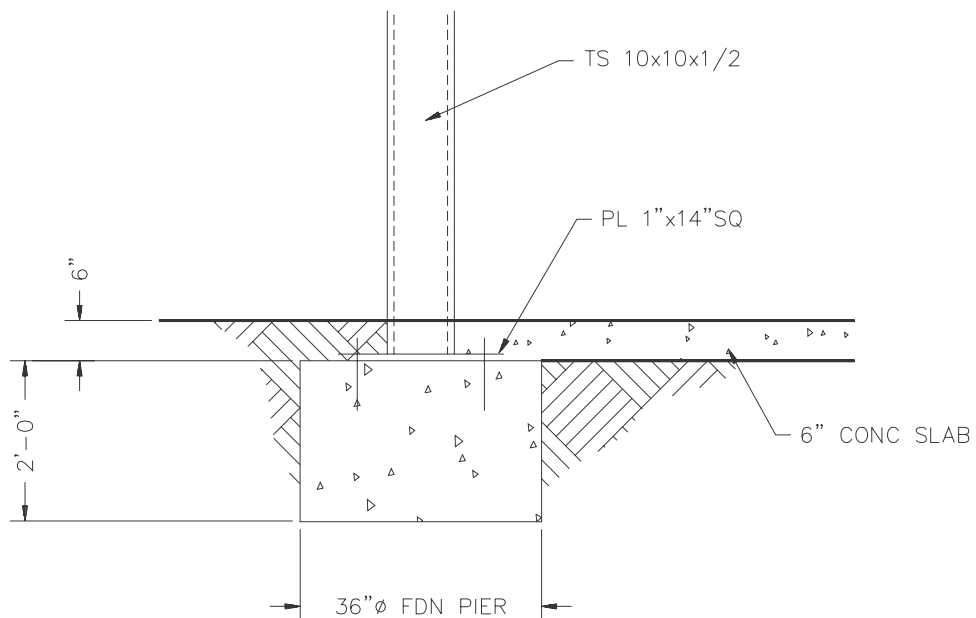
**Figure CE33-7**



**Figure CE33-8**

The completed drawing should look like Figure CE33-9.  Use the *Page Setup* dialogue box from the *Layout* tab to edit a plot style so that the object and border lines are thick, the text and dimensions are medium, and the hatch pattern is thin.  Make a *Plot* of the drawing at 1:1 on D-size paper.  *Save* your drawing.

**Figure CE33-9**