CHAPTER 17 EXERCISES

1. Listing Sizes and Locations

Open the drawing entitled **PCB2** from the Chapter 9 exercises. This printed circuit board will be manufactured with a CAD/CAM machine. Use the ***List*** command to determine the coordinates of the center and diameter of each hole. Write down these values in a table.

2. Area of a Steel Section

Open the **W10X15** drawing from the Chapter 16 exercises. Use the ***Area*** command to calculate the cross-sectional area of the I-beam.

3. Volume of Concrete

You have been asked to determine the volume of concrete needed to construct a tilt-up wall in order to come up with a price estimate for a bid. ***Open*** the drawing **CE16EX1** of the concrete tilt-up wall. Calculate the ***Area*** of the face of the wall. You may use the ***Boundary*** command to facilitate this process. Assuming the wall is 8″ thick, what volume of concrete (in cubic feet) is needed to pour this wall?

4. Square Footage

Open the drawing named **CE9EX3** from the Chapter 9 exercises. If the house has two floors with the same area, what is the square footage of the home?