

ARC171

Two-dimensional Shapes rendered in Three-dimensional plans with shadows

1. Make a print of your plan with grey tones.
2. Using a mechanical drafting pencil with H lead, draw a small square grid over the drawing which nearly fits your shape locations, making all squares the same size.
3. Transfer this drawing to a larger sheet of 11" x 17" paper by hand drafting, increasing the overall grid size to fit an 8" x 8" square.
4. Change the shapes of the rectangles to fall on a grid line.
5. Set the heights of each shape so that the darkest shapes are the tallest, and the lightest shapes are the shortest. You should have four or five different heights.
6. Draw shadow lines in pencil from the corners of each shape at a 45 degree angle up to the right. The length of each shadow line is the height of the shape, measured in feet at $\frac{1}{4}" = 1'-0"$ scale.
7. If a shadow falls on another shape, it is shorter by a distance equal to the height of the shape it falls on.
8. Draw the edges of the shapes in "Pentel Sign Pen" (hard line).
9. Draw the grid in "Razor Point" pen (hard line).
10. Glue the drawing to a 10" square piece of white foam core board.
11. Cut out a piece of black construction paper (purchase it at any Jewel store) along the shadow lines and glue with rubber cement to the drawing.
12. Glue your typed and printed name on the front of the drawing, $\frac{1}{2}"$ high lettering centered near the bottom.