# **Draw a Room to Scale**

**Program:** Electrician Technician

**Course:** EL110 Basic Safety

**Objectives:** In this lab students will learn how to properly draw a room to scale. After completing this lab, you will be able to:

- Draw a room to scale.
- Add in the proper symbols.
- Make a legend.

Lab Equipment: N/A

# **Required Tools:**

Architects Scale

#### **Materials:**

- Paper
- Pencil

Safety: N/A

Resources: N/A

Required Time: 2 lab days.

# **Shop Maintenance:**

- All work will cease 20 minutes prior to the end of class.
- All work areas must be cleaned.
- Tools and equipment must be cleaned and returned to the designated areas (cage, tool room, cabinets etc.)
- Any broken or missing tools must be reported immediately.
- · Tools and equipment are students' responsibility.

# **Procedure:**

• Have students draw to  $\frac{1}{4}$  scale of a single bedroom (14' x 12') with an attached bathroom (4  $\frac{1}{4}$ ' x 8') floor plan including:

# **\*\***

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- o Receptacles
- o Light outlets o Switches
- o Cable outlet
- o Smoke/Carbon detector
- o Doors
- o Bathroom exhaust fan
- o Window
- o GFCI
- Identify the scale on the drawing.
- Create a legend.
- Draw the proper symbols.
- Include cabinet and bath fixtures.
- Students must use an architect scale and make dimension lines, where applicable.
- The instructor will check at least two of the scaled walls for accuracy.