

Architectural Problem Statement 1

Name _____ Date _____ Class _____

Problem Statement

Habitat for Humanity has requested that working drawings for a single-family residence be completed by noon today. You will have _____ hours to complete this problem statement and plot the drawings. Additional time may be added if required.

Floor Plan

- 2450 sq. ft. single-family residence. (+ or - 5% of 2450 sq. ft.) with garage (500 sq. ft.).
- Gable roof with a 6/12 pitch.
- 2 × 4 with siding for all exterior walls.
- 2 × 4 interior walls.
- 2 × 8 plumbing (wet) walls.
- Laundry closet located near bedrooms.
- Two bedrooms with closets at least 2' deep and 6' wide.
- Master bedroom with full bath and 2' × 9' closet.
- Great room concept.
- Kitchen/dining area separated by a 4' pony wall.
- Formal dining room.
- Title and scale the drawing at 1/4" = 1'-0". Include North arrow.
- Dimension all interior walls to center of studs.
- Dimension all exterior windows and doors to their centers.
- Opening (door and window) schedule required. Each window and door will have a unique identifier.
- Electrical information is not required.
- Expect changes to the floor plan during the design phase.
- Presentation drawing with all walls shown solid. Add furniture, fixtures, etc., for client review.

Foundation Plan

- Dimension as appropriate. Title and scale the drawing at 1/4" = 1'-0". Include North arrow.

Exterior Elevations

- Two exterior elevations are required: front and right side.
- Provide all material callouts, finished grade, and roof pitch symbol. Dimension as required.
- Title and scale the drawing at $1/4" = 1'-0"$.

Building Section

- One (1) full building section (longitudinal) is required. Label and dimension the drawing as per generally accepted architectural practices.

Site Plan

- Per site description TBD utilizing the polar coordinate method at a scale of $1" = 20'$.

Submittal Drawing Requirements

- Combine all drawings onto one or two D-size, side border architectural sheets for plotting.