

Level 1: Individual Floor Plan Design

Step 1: Choose a Floor Plan or sketch a floor plan outline that is no larger than 1250 sq. ft. and the Front Elevation of the house (NOTE: The Front Elevation sketch does not have to be the same as the finished one Front Elevation). NOTE: May modify exterior outline with approval

Step 2: a. Create the Ext. House Outline and Ext. Walls

Step 3: Sketch the Int. House Outline using Pencil, Triangles and Triangular Scale or on Computer
Do not Sketch the thickness of the walls. Roughly place doors and windows and label the rooms

The House should include the following

- a. 3 Bedrooms w/ Closets
- b. At least one Full Bathroom
- c. Utility Room or Closet big enough to place a Washer and Dryer (maybe stackable)(each is 2'0" square); Water Heater 2'-0" Dia. And Furnace (Default Sizes in Archicad)
- d. Linen Closet
- e. Eating area (This maybe a dining room or incorporated in the kitchen area)
- f. No Stairs
- g. 2 Exterior Doors
- h. Optional: addition of an attached 20'0" x 20'0" garage. NOTE Garage floor min of 16" below main floor.
- i. House built on crawl space. Footings 42" below grade and 16" above grade (Furnace may go in the crawl space)

Step 4: Once the Interior House Outline as been sketched, submit for approval

Step 5: Layout Interior Walls, Bathroom(s), Kitchen, Dimensions, Door/Window Labels etc.

Print Floor Plan once completed

Step 6: Window, Door, and Cabinet Schedules (Use Excel to design) (NOTE: Windows Check Textbook/Archicad for Sizes)

Step 7: See Mr. Jourden for help with Roof Design

Step 8: Exterior Elevations w/Dimensions

Step 9: Int. Elevations (attach floor plan view of Kitchen with Interior Elevations)

Step 10: Layout on Border and Title Block

Step 11: Rendered image of house

Step 12: If Time: Begin working on Foundation Plan

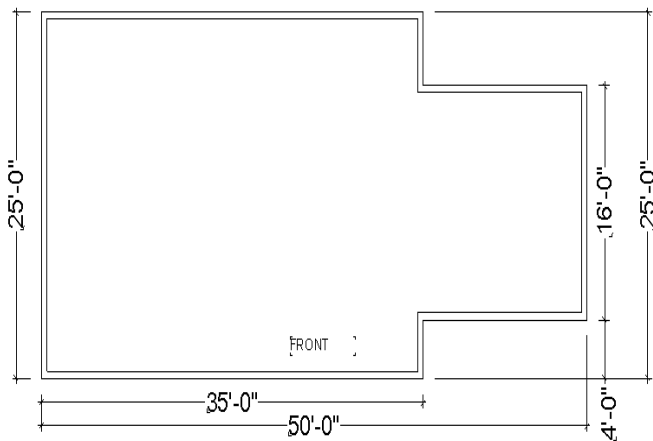
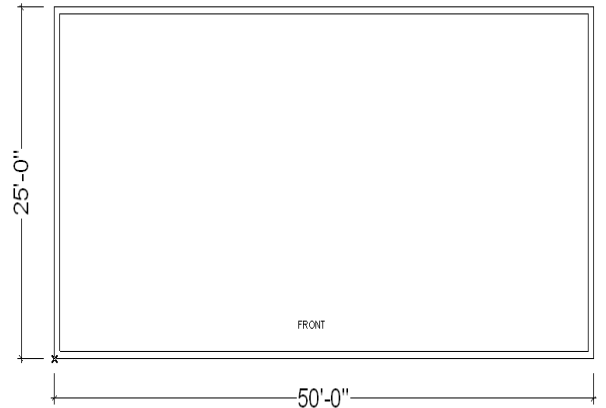
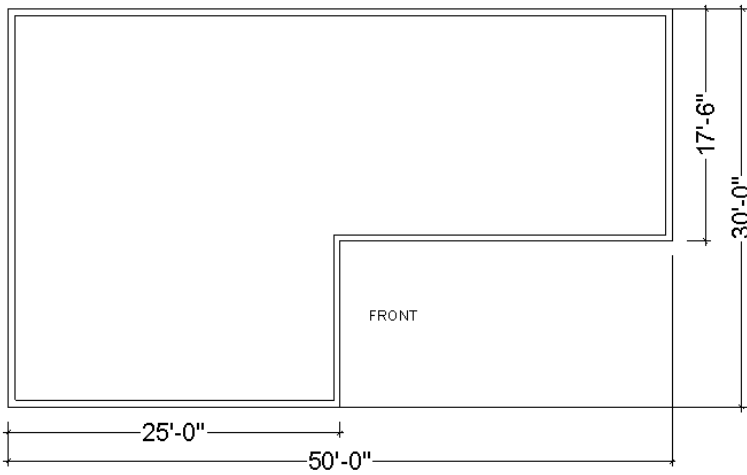
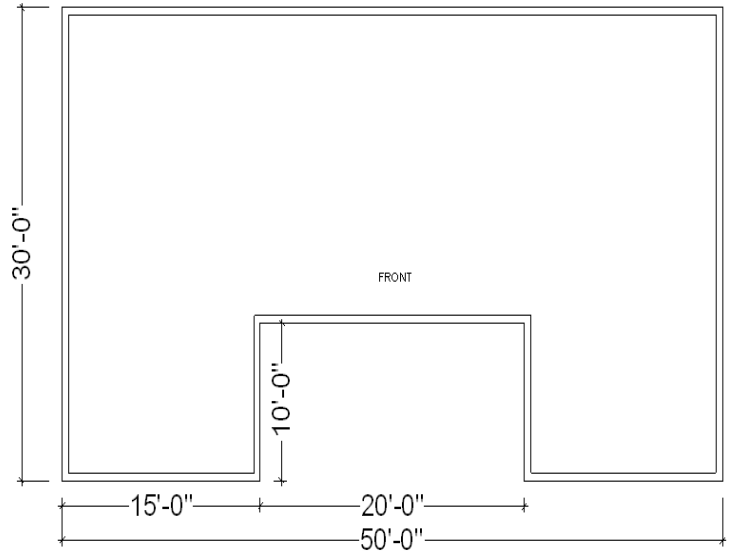
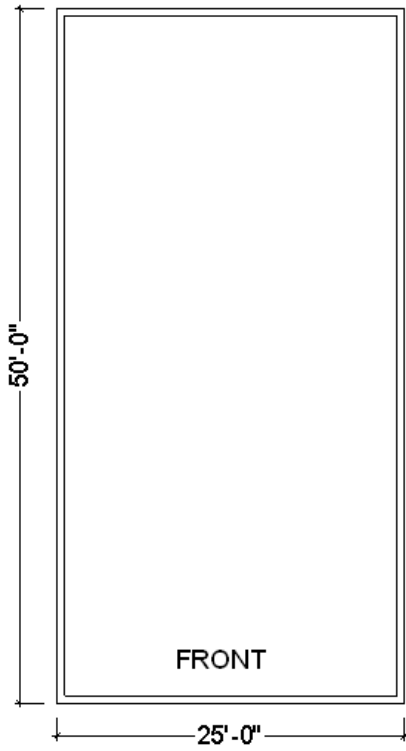
Be sure to place the furnace, vents, construction notes, and dimensions

See Textbook Page 191 for example

- a. Beam 4" x 6"
- b. Floor Joists 2" x 8"

Choose one of the following House Outlines

NOTE: any modification to overall dimensions need to be approved by the teacher



NOTE: Attached GARAGE not factored into Floor Plan Outlines Above

1. Overall Size-

- Wall Height 8'0"
- Exterior Wall Thickness: 6 "
- Interior Wall Thickness: 6"
- Hallways and Archways minimum walkway space 3'0"

2. Rooms

Sleeping Zone

a. Bedroom 1 Size- _____ x _____ _____ SqFt.

-Closet Size _____ x _____ _____ SqFt.

b. Bedroom 2 Size- _____ x _____ _____ SqFt.

-Closet Size _____ x _____ _____ SqFt.

c. Main Bathroom- _____ x _____ _____ SqFt.

- Toilet- Use Default Settings in the Program: Use WC LT
- Tub- Width 60" x Depth 30" X Height 15 ½"
- Vanity Cabinet
 - o Depth- 18" or 21"
 - o Height 30"
 - o Width- Reference Textbook for standard sizes

Service Zone

e. Kitchen Size- _____ x _____ _____ SqFt.

-Refrigerator Size- Width 36" x Depth 30" x Height 66"

-Stove Size Width 30" x Depth 26" x Height 36"

-Sink Size Standard Double Bowl Sink (Min. Sink Base 36")

- Cabinets: Reference Text Book for Base and Wall Cabinet Sizes

e. Dining/Eating Space Room _____ x _____ _____ SqFt.

Living Zone

f. Living Room _____ x _____ _____ SqFt.

g. Utility Room (Maybe placed in a closet) _____ x _____ _____ SqFt.

-Washing Machine Size- 2'0" x 2'0" x 3'11"

-Clothes Dryer Size- 2'0" x 2'0" x 3'11"

-Wash Basin- 2'0" x 2'0" x 3'11"

h. Coat Closet _____ x _____ _____ SqFt.

i. Other Closets (Optional)

- Closet 1 _____ x _____ _____ SqFt.
- Closet 2 _____ x _____ _____ SqFt.
- Closet 3 _____ x _____ _____ SqFt.

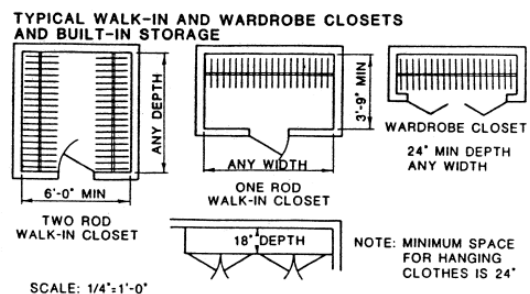
j. Door and Window Sizes

- Front Door- 3'0" Wide
- Rear Door- Minimum 3'0" Wide
- Side Door (Optional)- 3'0"
- Interior Hinge Doors- Standard 2'0", 2'6", 3'0" Wide
 - o Minimum spacing from walls- 3"
- Closets Bi-Folds or Sliders Reference Text Book
- Sliding Door Wall Reference Text Book
- House Must have at least 2 Exterior Doors
- Windows Reference text for standard window sizes and heights

k. Miscellaneous Rooms (Optional)

| | | |
|------------------------|--------------------|-------------|
| Name | Size | |
| <u>Garage Attached</u> | Min: 24' x Min:24' | _____ SqFt. |
| _____ | _____ x _____ | _____ SqFt. |
| _____ | _____ x _____ | _____ SqFt. |
| _____ | _____ x _____ | _____ SqFt. |
| _____ | _____ x _____ | _____ SqFt. |
| _____ | _____ x _____ | _____ SqFt. |

| TYPICAL ROOM SIZES (dim. in ft) | | | |
|---------------------------------|---------|---------|---------|
| ROOM AREAS | SMALL | AVERAGE | LARGE |
| LIVING ROOM | 12 x 18 | 16 x 20 | 22 x 28 |
| DINING ROOM | 10 x 12 | 12 x 15 | 15 x 18 |
| KITCHEN | 8 x 10 | 10 x 16 | 12 x 20 |
| UTILITY ROOM | 6 x 7 | 6 x 10 | 8 x 12 |
| BEDROOM | 10 x 10 | 12 x 12 | 14 x 16 |
| BATHROOM | 5 x 7 | 7 x 9 | 9 x 12 |
| HALLS (width) | 3'-0" | 3'-6" | 3'-9" |
| GARAGE | 10 x 20 | 20 x 20 | 22 x 25 |
| STORAGE WALL (depth) | 6" | 12" | 18" |
| DEN | 8 x 10 | 10 x 12 | 12 x 16 |
| FAMILY ROOM | 12 x 15 | 15 x 18 | 15 x 22 |
| WARDROBE CLOSET | 2 x 4 | 2 x 8 | 2 x 15 |
| ONE ROD WALK-IN CLOSET | 4 x 3 | 4 x 6 | 4 x 8 |
| TWO ROD WALK-IN CLOSET | 6 x 4 | 6 x 6 | 6 x 8 |
| PORCH/DECK | 6 x 8 | 8 x 12 | 12 x 20 |
| ENTRY | 6 x 6 | 8 x 10 | 8 x 15 |



Final Print

Sheet 1: Cover Page

- a. 3D Image of House
- b. Door and Window Schedule

Sheet 2: Floor Plan

- a. Labels
 - a. Dimensions
 - b. Room
 - c. Door
 - d. Window
 - e. Work Triangle
 - f. Interior Elevation Marker
 - g. Window and Door Schedules

Sheet 3: Exterior Elevations (Front and Back) (Shingles and Siding; Optional Porches, Driveway, Land, etc.)

Sheet 4: Exterior Elevations (Right and Left) (Shingles and Siding; Optional Porches, Driveway, Land, etc.)

Sheet 5: Interior Elevation

- a. Kitchen
 - a. Floor Plan View with
 - i. Cabinet Labels
 - ii. Work Triangle
 - b. Cabinet Schedule
 - c. Elevations
- b. Bath(s)
 - a. Floor Plan View
 - b. Elevation(s)

Sheet 6: 3D View of House with Roof

Optional: Landscaping w/Foundation Wall

Sheet 7: Foundation Plan with Sections

Sheet 8: Plot Plan

Sheet 9: Construction Plan

- a. Roof Plan
- b. Elevations and Top Views of Porches, Decks, Patios, Exterior Stairs, etc.