Project 2.3.1 Affordable Housing Design (MOON MODIFIED)

Introduction

Across America, several organizations and communities provide programs that design and build affordable homes so that people can



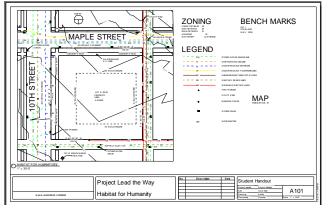
realize the dream of owning their own homes. Creating this opportunity often involves logistically ensuring that the financial burden on the homeowner is reasonable. Affordable homes should also be affordable to maintain and to support. The designer or architect must determine that balance when designing layout, functions, and material choices. The designer should also strive to create a product with universal design so that any occupant can utilize the home without adaptation in the present or future.

Constraints

- The design should follow Habitat for Humanity guidelines and adhere to residential codes.
- Universal design features must be incorporated into the design.
- Green and sustainable features must be incorporated into the design.

Revit Deliverables (PHASE 1)

- Title Page and Table of Contents (Include a rendering of your project.)
- Project Overview
 - Location
 - Client Survey Highlights
 - Site Description and Orientation
 - Project constraints / codes (with notes addressing approvals for any exceptions)
 - Benefits of your design
 - Architectural Style
 - Landscaping Plan
- Revit Sheets
 - Site Plan Sheet
 - Renderings / Camera View Sheet (elevation rendering, interior renderings, landscape renderings)
 - Floor Plan Sheet (fully dimensioned with labels and areas) must include traditional furniture / appliances to show flow (at least a washer, dryer, dishwasher, fridge, stove, beds, dressers, couch, toilets, sinks)
 - Elevation Sheet
 - Schedule Sheet (windows, doors, room schedule, gross area)
- Support Documents
 - Client Survey, Adjacency Matrix, Bubble Diagram, Rough Floor Plan (to scale), Final Floor Plan with Dimensions (to scale) with client signature



Other Deliverables (PHASE 2)

 Calculations: Water Supply Calculations, Storm Water Runoff calculations, Wastewater Calculations

HABITAT RUBRIC

Topics	0 - 10 points	
	-2 points per minor error (e.g. – door opened wrong direction), - 4 point per major error (e.g. – door missing)	
Floor Plan Sheet X 2	Dimensions correctly shown, All rooms and furniture / appliances represented, Design provides best flow, Doors and windows placed appropriately, Room labels with areas	
Codes and Regulations X 2	All codes and regulations, universal design recommendations, and Habitat for Humanity requirements are met	
Elevation Sheet	Elevation views appropriately aligned and labeled, Correct elevations shown on one view	
Rendering Sheet	At least three renderings / camera shots provided that best represent the house, A background is provided, Renderings are visually appealing	
Site Plan Sheet	The full site plan (as shown on sheet one) is provided, House and plantings are correctly represented on site	
Schedules Sheet	Schedules provided for the rooms, windows, and doors, Appropriate information represented in the tables, Tables formatted correctly, Total gross area shown	
Landscaping	Landscaping plan is well thought out and complete, Landscaping plan includes diverse plantings	
Sheet Format	Title Blocks appropriately filled out, All caps used on all text, Sheets appropriately sized and balanced	

^{*} If a grading topic is not attempted at all, no points will be accumulated for that topic.