FINAL PROJECT – UNIVERSAL DESIGN RESIDENCE

DUE: Wednesday, May 10th

PROGRAMMING:

1. Design a residence for a disabled person (or couple) of any age, who will be living in close proximity to a caretaker. The physical disability should be currently in existence, and require the current, or future, use of a wheelchair.
2. The client can be selected from among family or friends, and must be available to be interviewed. You may also contact the Disability and Education Support Program on campus. Their number is (408) 741-2010. There are many disabled students and faculty on campus who enjoy participating in this project each semester...
3. The new residence is to be located on the site of an existing residence occupied by the caretaker. (See site plan).
4. Physical properties of the structure:
   a. 2500 sq. feet/one story. Level changes can occur if properly negotiated in terms of accessibility.
   b. Detached from the main residence.
   c. Functionally independent from the main residence, including:
      a. Entertainment/Living/Family room
      b. Food prep./Kitchen
      c. Eating/Dining
      d. Sleeping/Bedroom(s)
      e. Laundry facilities
      f. Utilities: HVAC, water heater
      g. Storage
      h. Accommodate any additional client needs

PROGRAMMING DOCUMENTATION:

1. Establish a Client Profile. Interview the client to determine needs, likes, dislikes, lifestyle.
2. Develop a Project Program.
3. Establish a Design Concept and Design Concept statement.
4. Develop a Design Intent statement indicating how the concept will be executed in this residence.

DESIGN CONSIDERATIONS:

1. Universal design, barrier-free accessibility.
2. Orientation, in relationship to sun, wind, existing buildings, views, landscape.
3. Lines of sight.
4. Spatial organization: how spaces are organized as a whole.
5. Spatial relationships: relationship of each room or space to others.
8. Special need(s) of the client in terms of safety, accessibility, stimulation, activities.
9. Appropriate storage capabilities.
10. Ambience and creativity. Implementation of design elements and principles.
11. Interior/exterior relationships and transitions between each.
12. Interior/exterior lighting (natural/artificial).
13. Design content development.
DESIGN STUDIES:

1. Site Study:
   • Originally drawn at 1/16” scale, your copy has been reduced by 50%. The plan reads scale: 1/16” = 1” – 0”. …it is actually 1/32” scale. View the plan accordingly.
   • Study building orientation and how it fits the site.
   • Indicate new and existing structures, direction of slope, views, driveway and parking areas, landscape, contour lines, setback, street dimensions, north arrow.
   • Show exterior finishes: gravel, concrete, rock, wood, etc.

2. 3-Dimensional Study (Study Model):
   • Construct at 1/4” = 1’ – 0” scale.
   • Study openings, changes in planes, roof overhangs, built-in fixtures and furniture.
   • Use foam core (3/16” thick), illustration board, balsa wood, Bristol board, etc.

DESIGN DOCUMENTS: (To be drafted, printed and bound into a drawing set)

1. Floorplan:
   • Drawn at 1/4” = 1’ – 0” scale.
   • Dimension important and overall measurements.
   • Indicate major building and structural elements such as walls, columns, fireplace(s), plumbing fixtures, cabinetry, etc.
   • Include legend and notes.

2. Electrical, Lighting, Ceiling Plans (can be separate or combined):
   • Drawn at 1/4” = 1’ – 0” scale.
   • Indicate outlets: electrical, television, telephone, intercom, etc. (and related switches and switching lines).
   • Indicate ceiling heights and level changes.
   • Include legend and notes.

3. Furniture Plan:
   • Drawn at 1/4” = 1’ – 0” scale.
   • Draft all furniture, coding to specification binder.
   • Include legend and notes.

4. Finish Plan:
   • Drawn at 1/4” = 1’ – 0” scale.
   • Indicate all finishes, coding to specification binder.
   • Include legend and notes.

4. Elevations: (1 elevation for each room)*
   • Living area
   • Kitchen
   • Accessible bathroom

PRESENTATION DOCUMENTS:*

1. Floorplan.
   • Rendered, as needed, to indicate articulation of materials and furnishings.

2. Axonometric Drawing(s) OR interior elevations:*
   • Axonometric drawn at 1/4” = 1’ – 0”. For presentation purposes only.
   • Interior elevations drawn at 1/2” = 1’ – 0” scale. If chosen, these would be mounted on your presentation boards, and ALSO be included with your design documents.
   • Show living area, kitchen, accessible bathroom.
   • Render, showing color, texture, shading, shadowing.
3. Finishes and Furnishings Boards:
   • Include samples of interior and architectural finishes and furnishings. The purpose is to convey an overall flavor of how the concept was executed. Every finish and piece of furniture need not be represented!
   • Group appropriate samples and/or photographs together.

**NOTE:** All presentation documents are to be mounted on foam core. Use mounting foam for heavier objects.

**SPECIFICATION BINDER:** (Contains all project information)

1. Design Concept.
2. Design Intent Summary.
3. Project Program (scope of services to be provided).
4. Client Profile.
5. Site Study schematics. **Also to include a breakdown of the sq. footage allocations per area/room, indicating how the overall sq. footage was calculated.**
6. Photograph of the Study Model (if available).
7. Specification sheets for finishes and furnishings, cross-referenced to drawings.
8. Manufacturer's product information/brochures.
9. Any samples and/or product photographs not presented on boards.

**ORAL PRESENTATION:**

1. Oral presentation conveying your Design Concept and design solutions.
2. Employ a design vocabulary and present a professional demeanor and appearance.
3. Sell your ideas with enthusiasm.

**REMEMBER THAT A MAJOR PROJECT LIKE THIS ONE IS A SIGNIFICANT ADDITION TO YOUR DESIGN PORTFOLIO.**

**BARRIER FREE DESIGN DOESN'T HAVE TO MEAN BORING DESIGN.**

**BE CREATIVE AND HAVE FUN!!**