

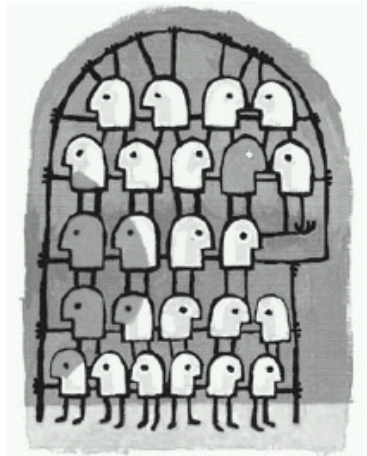
Unit Clusters & Common Spaces

Description

How can outdoor spaces and buildings foster a community spirit? Well-designed spaces for informal interaction and shared activities can give people the comfort level to reach out to neighbors. Our study will focus on spaces for interaction and climate response.

After confirming the site strategy, we will consider how sustainability measures can shape the complex. Then we will look at how multi-use space, stacking arrangements, shared facilities and flexible planning can increase livability.

Essential to the design is moving between scales. To complement the building scale design, we'll intermittently revisit the site model to understand consequences. As we learn more about details of the building technology, it will also inform the final units and common spaces.



Process

To develop your design, try to quickly negotiate consensus about general objectives and then divide the work up among team members and plan how to coordinate. Assign roles & tasks, schedule meeting times and deliverables.

A. Confirm / adjust site massing according to feedback

SOCIAL ISSUES:

- Connect to larger neighborhood
- Provide for community activities
- Script entry sequence to units

REALITY CHECK

- Program: % common space, parking allotment & unit mix realistic?
- Code: identify egress & life-safety requirements

B. Sustainability study

Identify major sustainability measures to incorporate (one per student) All should include passive solar & daylighting.

- Research relevant best practices, local materials and methods
- Speculate ways to incorporate the design ideas.

C. Form Development

- Land forms and landscaping common, semi-public & private areas
- Planning of unit clusters
- Planning of common spaces
- Elevation and massing

D. Construction

- Select structural system, enclosure materials
- Design modular elements

KEY REFERENCES

Blackboard Course Docs, i.e. EcoDesign > Peter Buchanan's Ten Shades of Green: pp.30 -38

Avi Friedman's The Adaptable House NA7125 .F84 2002, Homes within Reach HD7287 .F83 2005,

Sarah Susanka's Creating the Not So Big House NA7208 .S88 2000

DOE + Public Technology's Sustainable Building Technical Manual

<http://www.usgbc.org/DisplayPage.aspx?CMSPageID=212>

Requirements 10pm Thurs Nov. 8 upload, Fri Nov. 9 review

THE SCHEME: (update of site design material)

- STATEMENT of generative design ideas: issues, concerns and considerations.
- DIAGRAMS: parti sketches, program organization, geometry
- KEY IMAGES that have informed your design intentions. Include drawings or photographs of relevant precedent buildings.
- CONTEXT SITE PLAN ~1/20" w/ unit types identified. Include roads, paths, planters, walls, trees, vegetation, north arrow. List # units, areas of units & common space.
- SITE MODEL or clear 3D images of overall massing.

SUSTAINABLE DESIGN

- SITE ANALYSIS: sun, wind and water
- STRATEGY with diagrams in plan, section or axonometric. Include illustrative examples & materials.

BUILDING DESIGN

- MODELS of a typical Unit Cluster & Common Spaces with landscape context. Digital model + reference massing model or 1/8" model. *Emphasize spatial organization, public spaces and relationship to landscape.*
- 1/4" or 1/8" FLOOR PLANS of each floor within the outline of the overall building. Use dashed lines for major overhead structure, cross open to below. Label the spaces and include major furnishings and garden elements.
- 1/4" SECTIONS: Extend out to street/path and connected green spaces. Poche cut walls and floors. Use standard architectural drawing conventions.
- ELEVATIONS: show major façades at 1/4" and in context ~1/16" with neighbors
- PERSPECTIVES : At least 3 important views. Draw over a simple computer model, use Photoshop to collage people, water and greenery into a digital model photo. Consider a series showing the entry sequence. Include a key plan with vantage point, cone of vision.
- EARLIER PROCESS: bring inspiration sketches and earlier models to explain thinking. These may be displayed as part of the presentation or held aside for reference

Unit clusters / Common spaces

10/24 Share reflections & sections, develop design criteria from examples (Solar Decathlon and past cohousing projects)

10/25 Communes Live! talk 3:30 Gerlinger Hall

10/26 Schematic section & spatial model (Aaron Lafky 12:30-1:00pm visit)

Wk 6 10/29 1/8" Plans due, brainstorm on sustainable systems

10/31 Landscape plan due

11/2 DUE:

THE SCHEME summary (see below)

SUSTAINABILITY: strategy with diagrams

BUILDING DESIGN: Unit Cluster + Common Spaces: plans & 3D model or axons

Wk 7 10/5 Materials selected, Elevations first draft done

10/7 Desk crits

10/8 Revised models photographed, material uploaded to Wiki by 10pm

10/9 Review (location to be confirmed)
