Phase 2

XS CASE STUDY
Getting Familiar with Tiny Living // Precedents

We will study the XS house in order to familiarize yourself with the scale and functions of operating and living in minimal habitations. To understand the concepts behind each home, we will research the user and their needs in relationship to the spatial provisions and modes of efficiency. We will use drawings and models to clearly represent these ideas.

2A // Objective

• To understand design concepts and functional needs of dwelling
• Clearly explain ideas visually through orthographic and axonometric drawing;
  • consideration of lineweights, detail and accuracy
• To gain an understanding of singular scale
• To uncover efficiencies in space use
• To understand the material and structural composition of the building
• Create well-crafted models that explain spatial and material relationships
2B // Deliverable
Each student will choose one precedent (repeating only twice).

1. Casa Mar Azul / BAK Arquitectos - Mar Azul, Argentina
2. Lucky Drops / Atelier Tekuto - Tokyo, Japan
3. Boxhome / Rintala, Eggertson, Holte and Fors - Oslo, Norway
4. Walden / Nils Holger Moormann - Location varies
5. Trend Machiya / Atelier Bow-Wow - Tokyo
6. Tree House / Mount Fuji - Tokyo
7. KCH / KOCHI Architect's Studio - Tokyo
8. HOUSE H / Sou Fujimoto - Tokyo
9. House of Trough / Jun Igarashi - Hokkaido
10. House in Black / Chiba Manabu Architects - Tokyo, Japan
11. Loftcube / Studio Aisslinger - Berlin, Germany
12. Weekend house / Nishizawa - USUI-GUN, GUNNA, JAPAN
13. Craven Road House / Shim-Sutcliffe Architects - Toronto
14. Rolling Huts / Olson Sundberg Kundig Allen - Mazama, WA
15. Summer house with Studio / Henning Larsens Tegnestue - Vejby Strand, Denmark
16. House in Imazato / Katsuyasu Kishigami - Imazato, Japan
17. 50 Argo Street / O'Connor + Houle Architecture - South Yarra, Australia
18. Think Tank / Gumuchdjian Architects - Skibbereen, Ireland
19. House in Kromeriz / Archteam - Kromeriz, Czech Republic
20. Cliff House / Mackay Lyons Sweetapple - Nova Scotia
Analysis and Representation

Plan drawing unfolded to a series of Elevation drawings

- Dissect the dwelling to understand organization and planning of space
- Drawn on 24” x 36” sheets (see layout examples)
- Plan for all floors
- Approximately (4) Exterior Elevations and (4) Interior Elevations, unfolded either from elevations or from plan
- 1/4” = 1′-0” scale
- Black and White

*** Composition will depend on project type and your desired mode of representation that best expresses intent of project
Wall Section and Axonometric

- Detailed Wall Section
  - Analyze and draw the material and structural composition of a strategic area of the building
  - Both drawn on (1) 24” x 36” sheets (see layout examples) – can be two sheets if necessary
  - 1” = 1’-0” scale
  - Black and White

- Exploded Axonometric
  - Explains and uncover composition with construction, parts to whole, function and form
  - Elements of investigation: Massing, Program, Skin, and/or Structure
  - Scale per drawing size
  - Black and White

*** All drawing sheets to chose one consistent orientation: all portrait or all landscape
despiece
1. concrete foundation/basement
2. wide-flange frame
3. SIPs floor panels
4. SIPs wall panels
5. SIPs roof panels
6. panelized exterior walls
7. SIPs window wall
8. front window wall
9. interior walls
10. main entry/boathouse
a. SIPs roof panels
b. containerized shower deck
c. SIPs wall panels
d. wide-flange steel frame
e. main deck
f. panelized interior floors
g. SIPs floor panels
h. SIPs window boxes
i. SIPs main entry
Component model

- Well-crafted component model that uncovers/exposes one of the main design concepts for the project or a critical moment of the project
  - concepts should be uncovered from research;
  - does not have to be the main concept of building or architect
- Consider the following:
  - Materials – envelope and framing,
  - Program – functions, use of space,
  - Interior organization – compartmentalization of elements,
  - Environment – lighting, ventilation and openings
  - Scale – inequalities, uniformity
- 1” = 1’-0” scale
- No more than two materials

*** Inside needs to be exposed: section model, no exterior skin, framing only, partial uncovering, roof or skin lifts off
DUE: Monday, Sept. 17 at 2pm
Review in Upper Crown
Workshop 1:
DIGITAL DRAWING
Drawing // In Studio Workshop and Assignment

Friday, August 31 in studio

Drawing refresher… to get reacquainted with drawing digitally. Using Autocad (preferred) or Rhino, we will individually draw the as-built shelter which your group worked on.

Be prepared to print.

Draw Previous Shelter Project

1) Each draw (1) plan, (1) section, (1) elevation – 1 hour of drawing time
   o $\frac{1}{4}'' = 1'\text{-}0''$ scale
   o Printed on 11x17, landscape
   o Label each drawing: First Floor Plan, East Elevation, Longitudinal Section
   o Black and White
2) Approach the drawing as an iteration; include edits or upgrades to the design in the drawing
3) Pin-up for critique
4) Revise for submission and collection by Studio Prof. on Wed. Sept. 5 at 2pm
Start Drawing!