Architecture Studio: 2nd Year Fall

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Off. Hr: W/F 12:00-1:00pm & by appt. in MM302

Fall 2012, CMU, Arch #48-200, M/W/F 1:30-4:20
Class Website: www.andrew.cmu.edu/course/48-200

(9/25/12)

PROJECT 2 – FEAST SHELTER

ASSIGNMENT 2E: (Due Mon. Oct. 1, 1:30)

Architecture is a social and public art. Collaboration, both within your group, AND with other groups, is a central goal of this project. Work with your neighbors and the entire studio to create an even stronger sense of a single, communal meal for 60, rather than 8 mini-meals. Avoid focusing inwards on yourself, or only your own group. Share, and work to unify.

Team Work: Large, complex projects require both collaboration, and specialization or division of labor. Appoint "specialists" in your group to take greater responsibility for the following:

- A table ambassador to coordinate table(s) & connections
- A site plan and event coordinator, to help plan the site and feast
- A budget & materials planner to keep track of, and control costs
- At least one sustainability expert to research reuse & recycling
- A publicity point-person to document process and maintain Flickr

Communal Table: Work together to change the feast tables into a single connecting datum, rather than 8 pieces of furniture in 8 little huts.
- Table ambassadors should join forces to create a single drawing that shows ONLY the tables (leave out all other elements) .

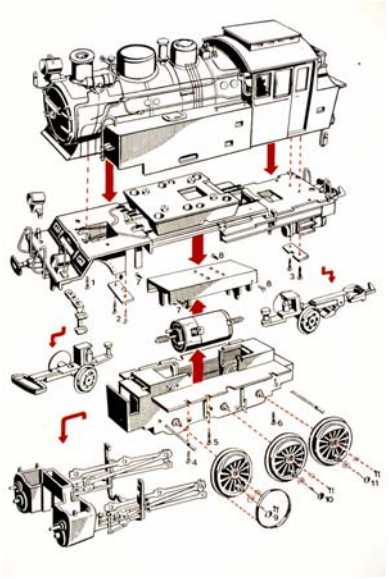
Site Plan & Event: Work together on a comprehensive site plan.
- Site planners should create a drawing to locate the shelters precisely with respect to each other & the walls, tennis courts, slope, sun, etc.
- Work on distinguishing the ends, allowing them to "frame" or "bookend"
- Start planning the feast, choreograph the communal event, not just yours
- Plan a festive entry procession to the combined shelters
- Invent a theme, a message from 48-200 to the campus.

Reduce / Reuse / Recycle: Each team must have 1-2 "sustainability experts," who should lead the group's research about the recycling of construction waste at CMU and in Pittsburgh.
- Reduce the scale and amount of materials used in your design
- Reduce the waste, both in the construction process (how many scraps will your design create?), and the life of the materials (what happens to the wood afterwards?)
- Reduce the time needed to construct, as well as "unbuild" the project

Flickr: Work together to organize and streamline the class Flickr site.
- Publicity experts should create a system to see both each individual student's work, and the entire team project.

3" Stick Model: Each team should create an accurate, beautifully crafted, 3"=1'-0" scale "stick model" of your group feast shelter
- Show EVERY piece of wood, and every piece of hardware, to scale
- Be sure the model is structurally stable; trace the static loads through connections, back to the ground. Avoid relying too much on hardware or other connectors to keep your structure up; instead use gravity and friction (as we explored with the 2x4 exercise)
- Add six scale figures to show seating for 6 at a communal meal
- Cut up 2x4s for materials; no balsa. Avoid hot glue an other "gobs" of glue that cannot be simulated on the construction site.

<u>Shop Drawings</u>: Each team should create a full set of “shop drawings,” technical drawings that reveal precisely the dimensions, orientation, and arrangement of all material pieces and spaces
- Make clear the joinery (how it is built), and the construction process (how it is assembled on the construction site).



<u>Materials List</u>: Create a precise materials list and cost estimate showing size and quantity of <u>ALL</u> materials in your shelter (do research if. nec.).

- 8ft 2x4s ($3.30 each),
- 4ftx8ft sheets of 19/32" plywood ($29.00 each),
- 4ftx8ft sheets of 11/32" plywood ($23.00 each)
- 1-5/8" screws (for attaching plywood to 2x4s; approx. 5¢ each)
- 2-1/2" screws (for joining 2x4s to each other; approx. 8.5¢ each)

- Each team should nominate a “budget & materials” planner to keep an overview of materials used, and work with other groups to create a comprehensive cost spreadsheet.
- Coordinator will purchase only plywood, 2x4s and wod screws. All other materials, hardware, or tools are your group’s responsibility