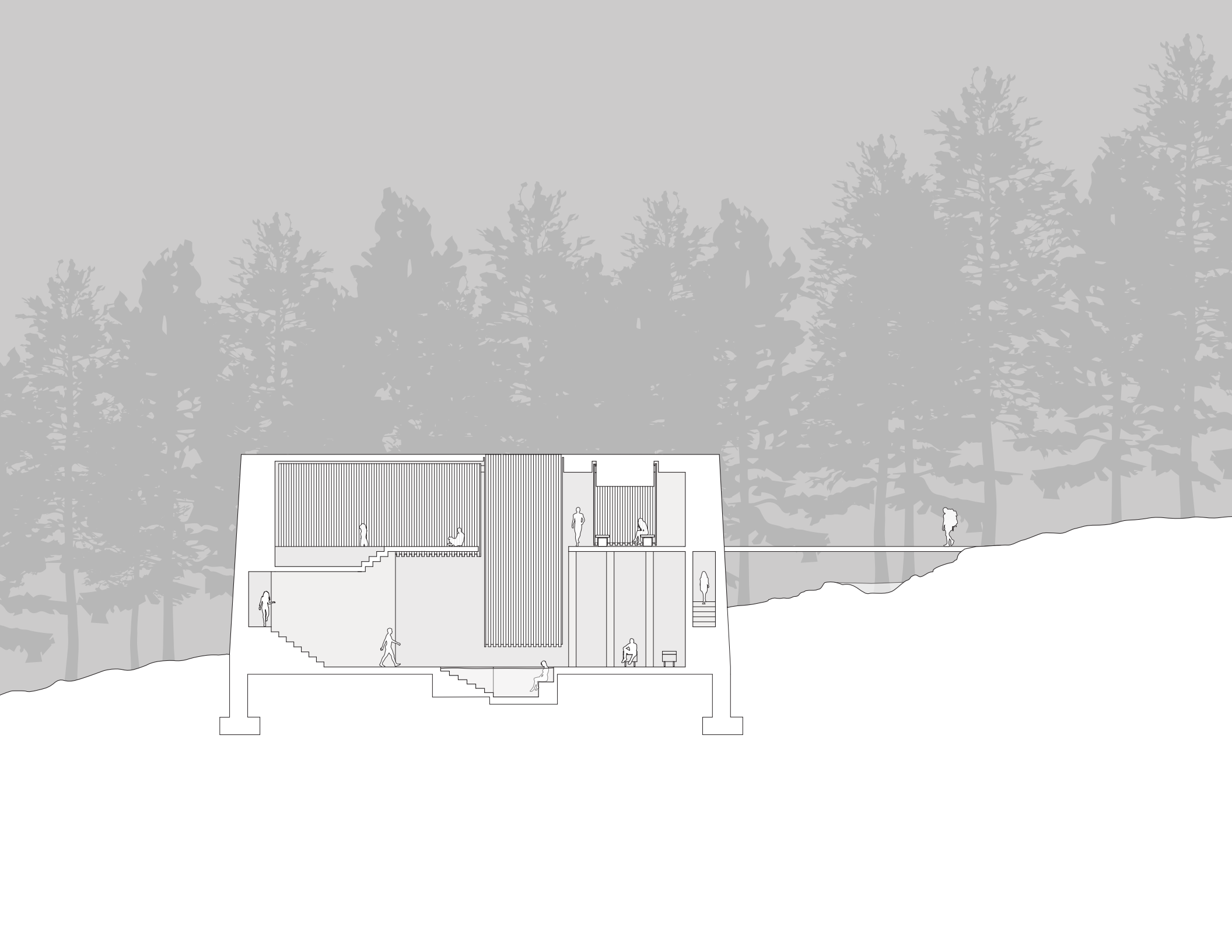




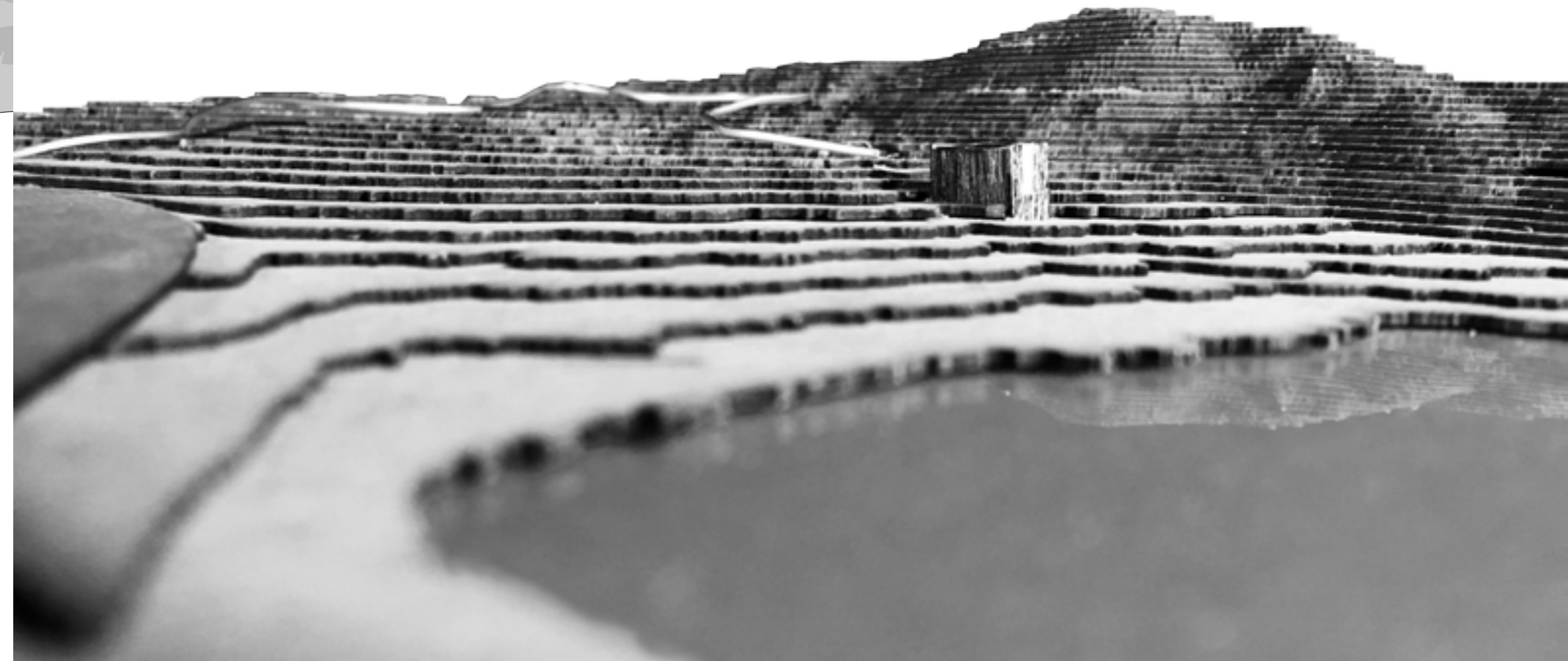
RYU KONDRUP
P O R T F O L I O
Carnegie Mellon University B.Arch Candidate

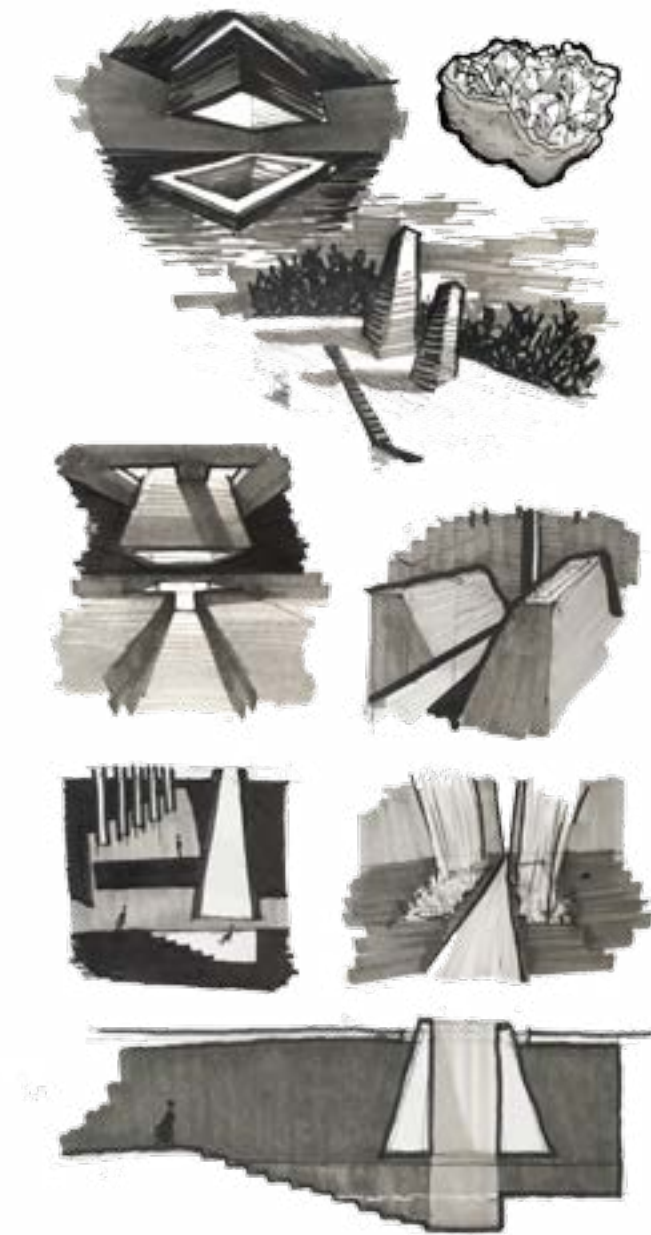


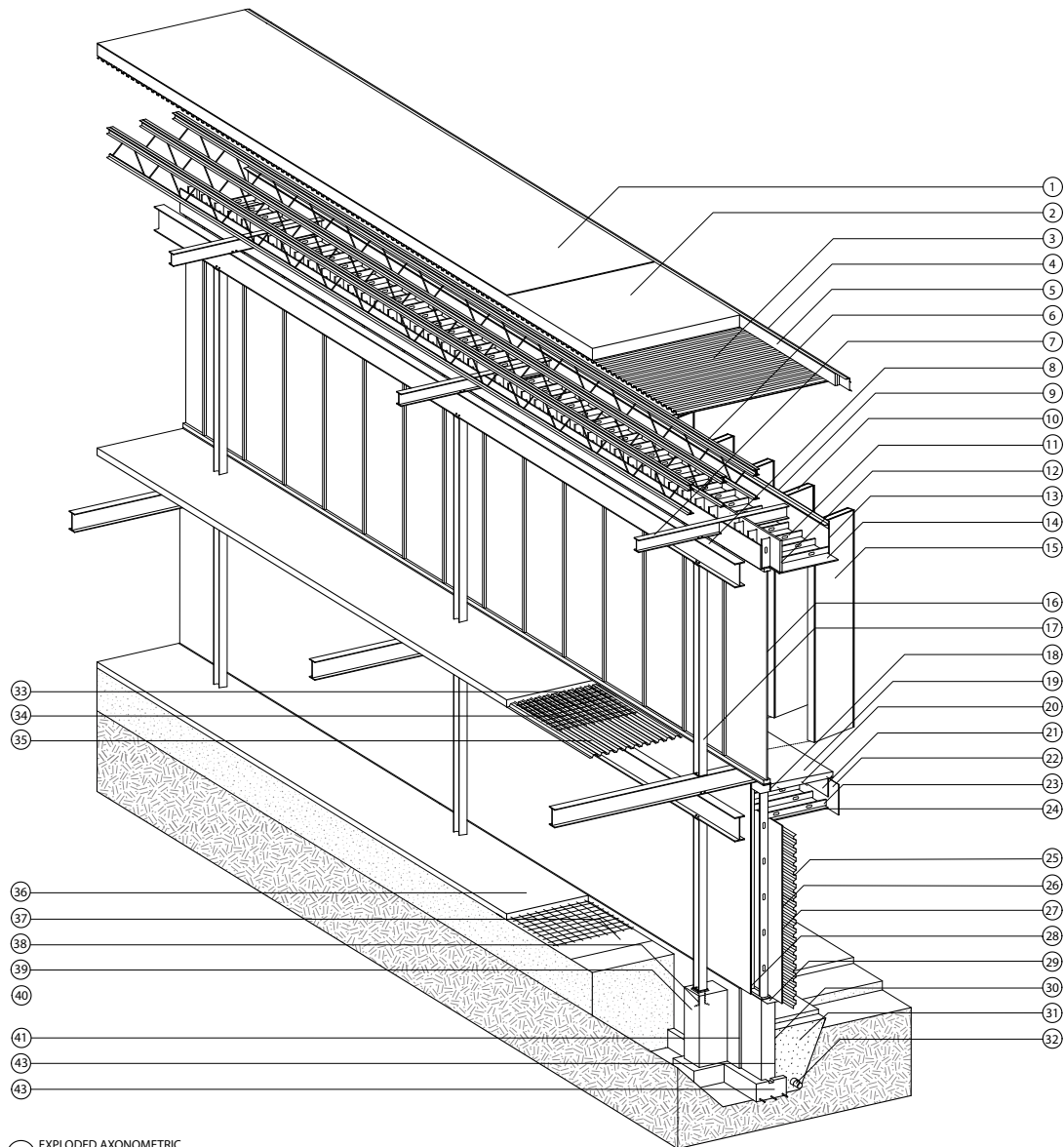
SACO LAKE BATH HOUSE

Studio Elaboration II | Spring 2018

Nestled on the southward-facing hillside of New Hampshire's Crawford Notch sits a monument carved by meteorological and geological phenomena. Guided by a nearby brook meandering down the hillside, at a turn the hiker stumbles upon a clearing to reveal a mass seemingly grown from the granite bedrock below it. Hollowed by the seasonal cascade of flowing water, the formation reveals itself as a cavernous winding of narrow paths and sudden releases, leading one to descend further into the geothermally active deep in search of a more primal, ethereal bathing experience.







2 EXPLODED AXONOMETRIC
SCALE: 1/4" = 1'

CONSTRUCTION MATERIAL KEY:

1. EPDM ROOFING
2. HIGH LOAD RIGID INSULATION
3. STEEL DECKING
4. STAINLESS FLASHING
5. TREATED WOOD BLOCKING
6. STEEL BAR JOIST
7. STEEL SECONDARY BEAM W8X21 @ 24'-0" CENTERS
8. STEEL PRIMARY BEAM W16X45
9. 3/8" TK. STEEL PLATE (WELDED TO STEEL BEAM)
10. COLD ROLLED METAL FRAMING (BRISE SOLEIL SUB STRUCTURE)
11. COLD ROLLED METAL FRAMING @ 16" O.C. SPACING (SOFFIT)
12. RIGID INSULATION
13. 3/8" TK. STEEL PLATE (WELDED TO STEEL BEAM) FASCIA
14. 1/2" TK. FIBER CEMENT PANEL
15. 1/2" TK. FIBER CEMENT PANEL
16. KAWNEER WINDOW 451T SPACED 4'-0" O.C. (VERTICALLY)
17. STEEL COLUMN W8X24 @ 24'-0" O.C.
18. 1" RIGID INSULATION (THERMAL ISOLATION)
19. SLOPED SITE CAST SILL
20. #6 REINFORCING BAR 16" O.C. EACH WAY
21. 3/8" STEEL PLATE WELDED TO FLANGE AND WEB.
22. 3/8" TK. STEEL PLATE (WELDED TO STEEL BEAM) FASCIA
23. COLD ROLLED METAL FRAMING @ 16" O.C. SPACING
24. 1/2" TK. FIBER CEMENT PANEL
25. CORRUGATED METAL SIDING
26. VAPOR BARRIER
27. RIGID INSULATION
28. 5/8" TYPE X GYPSUM BOARD
29. SILL SEAL
30. 10" TK. CAST IN PLACE CONCRETE FOUNDATION WALL
31. GRAVEL BACKFILL
32. FOUNDATION DRAIN W/ GEO TEXTILE FABRIC
33. POLISHED CONCRETE SLAB
34. WELDED WIRE MESH
35. STEEL DECKING
36. CONCRETE SLAB W/ WELDED WIRE MESH
37. VAPOR BARRIER
38. 1/2" DIA. ANCHOR BOLTS WITH NON SHRINK GROUT BED
39. 18" WIDE CONCRETE PIER
40. COMPACTED GRAVEL FILL
41. RIGID INSULATION
42. WATERPROOFING
43. REINFORCED CONCRETE FOOTING (W/ (3) #6 REINFORCING BAR

ASSEMBLY SEQUENCE

ASSIGNMENT 1

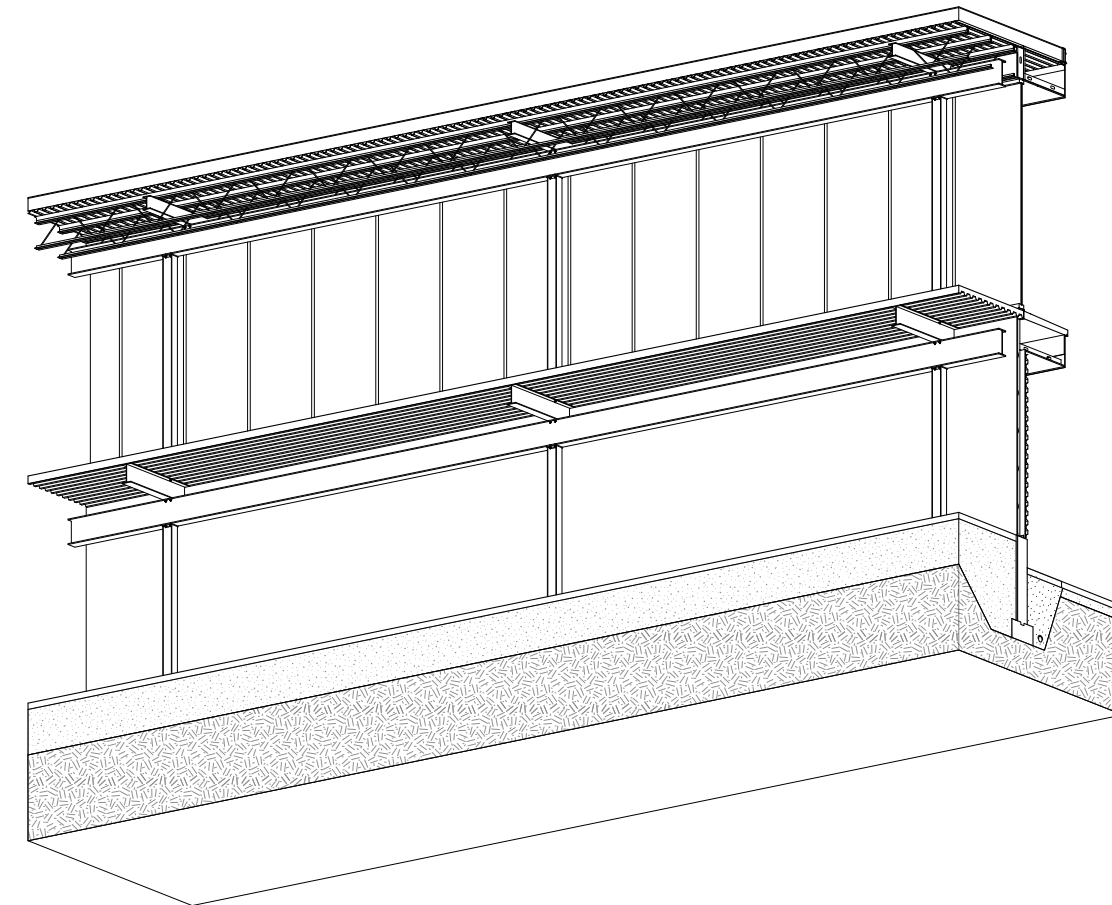
48-215 MATERIALS & ASSEMBLY
SPRING 2018
INSTRUCTOR: DAMIANI

RYU KONDRUP

AXONOMETRIC WALL CONSTRUCTION

Materials and Assembly | Spring 2018

Using a single wall section drawing, a detailed sectional 3D model was created to develop a strong understanding of the logic of building construction. From this 3D model, two axonometric drawings were then produced - one assembled and the other exploded as a valuable exercise in representation of complex building assemblies.





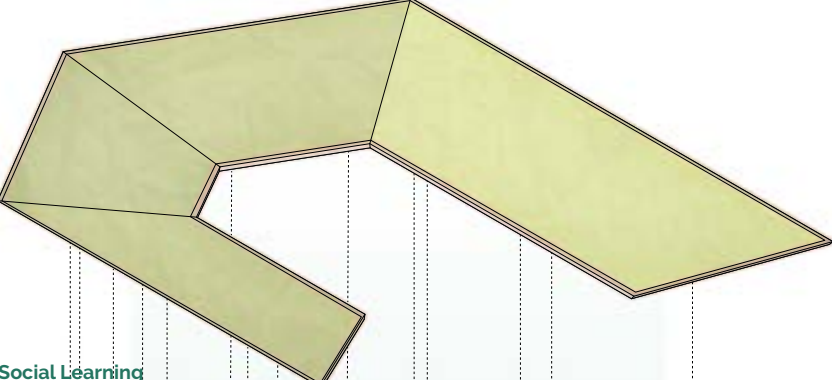
CENTER FOR URBAN AGRICULTURE

Grow Collective Studio | Fall 2017

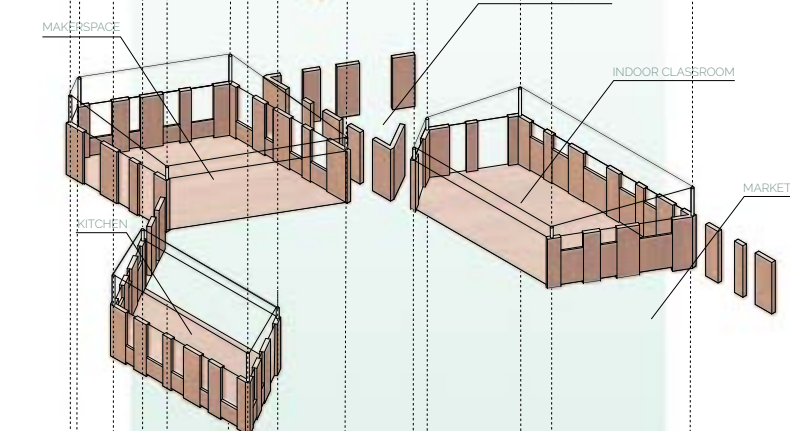
Situated on a plot at the entrance to the neighborhood of Homewood in Pittsburgh, PA, the Center for Urban Agriculture is a community space designed for the people of Homewood to interact and learn through the medium of sustainable urban growing. The building's organization about a central growing core provides direct contact with the community garden from any space at the complex, while high visual and spatial permeability promotes transparency and social interaction throughout the urban center.



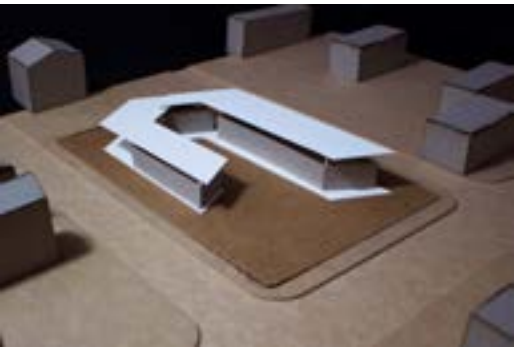
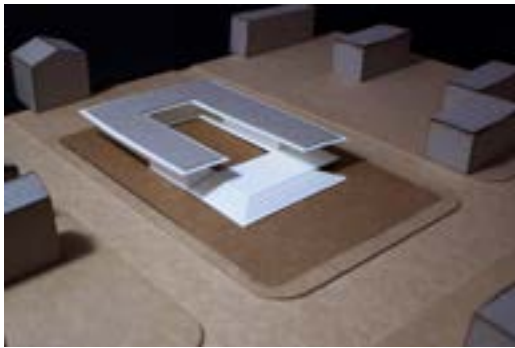
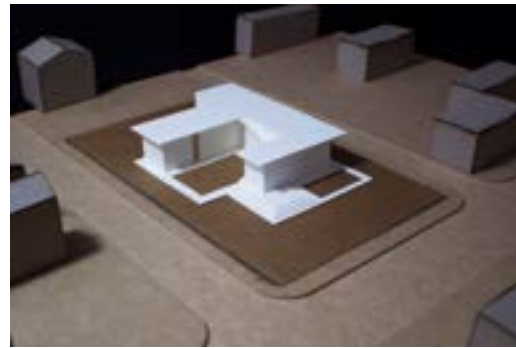
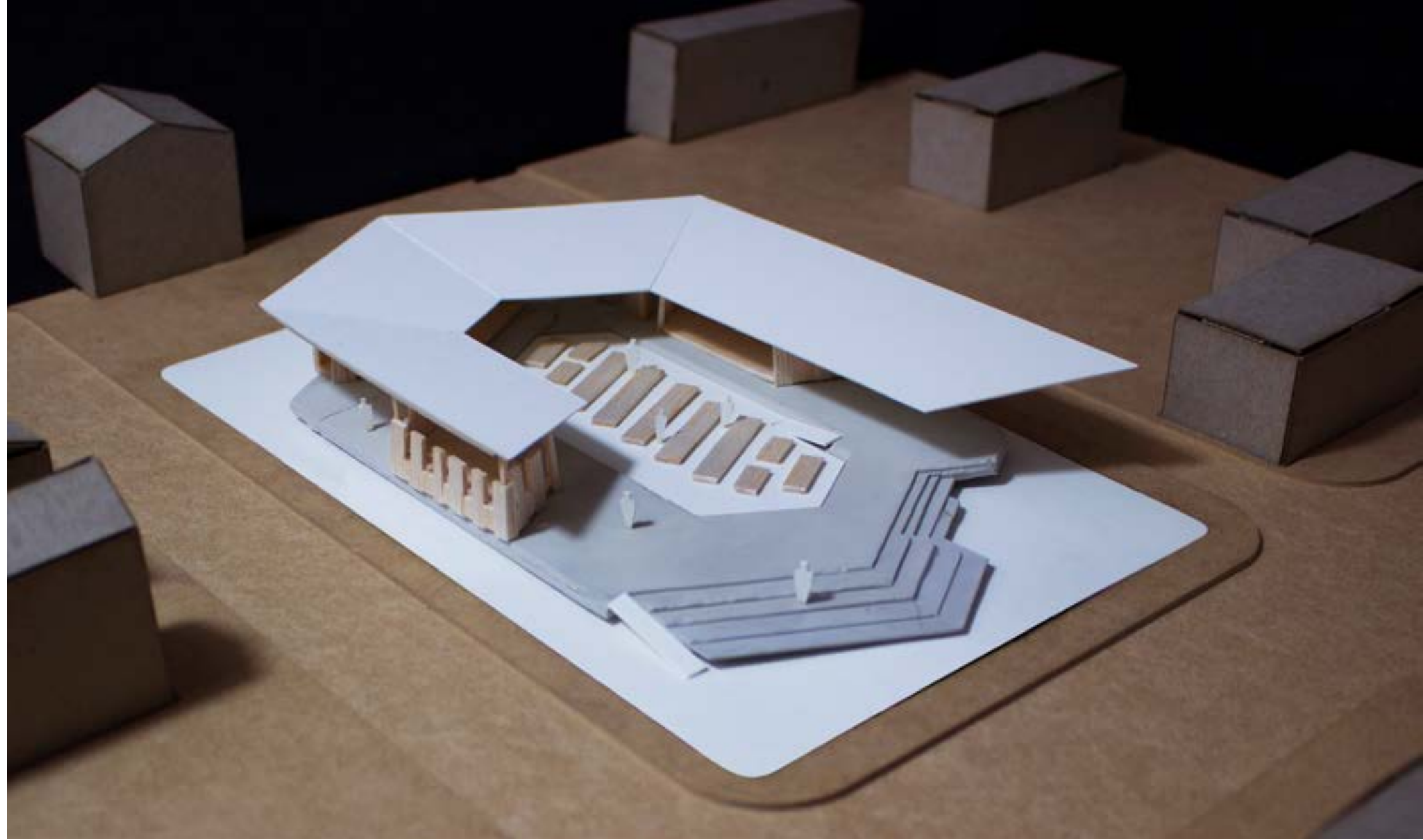
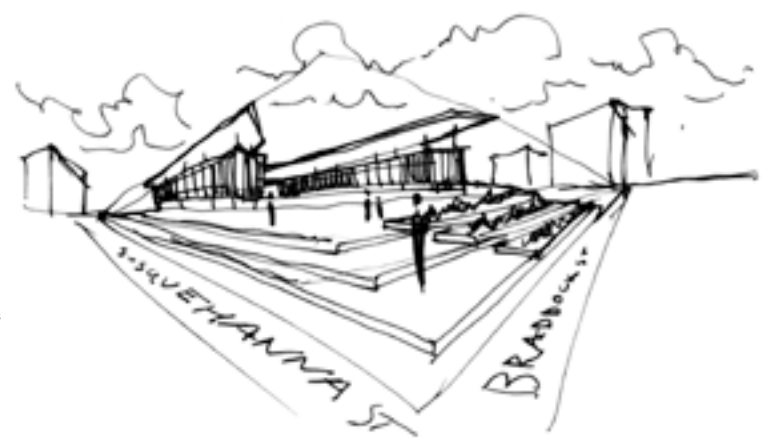
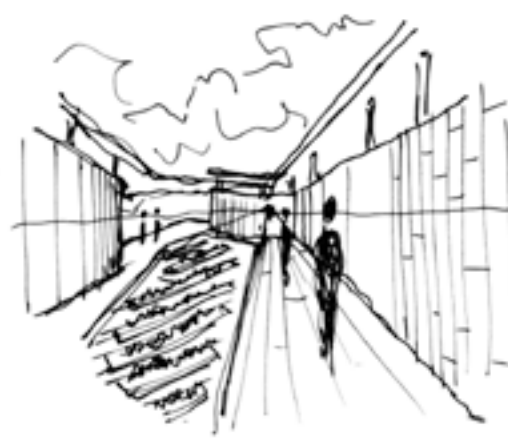
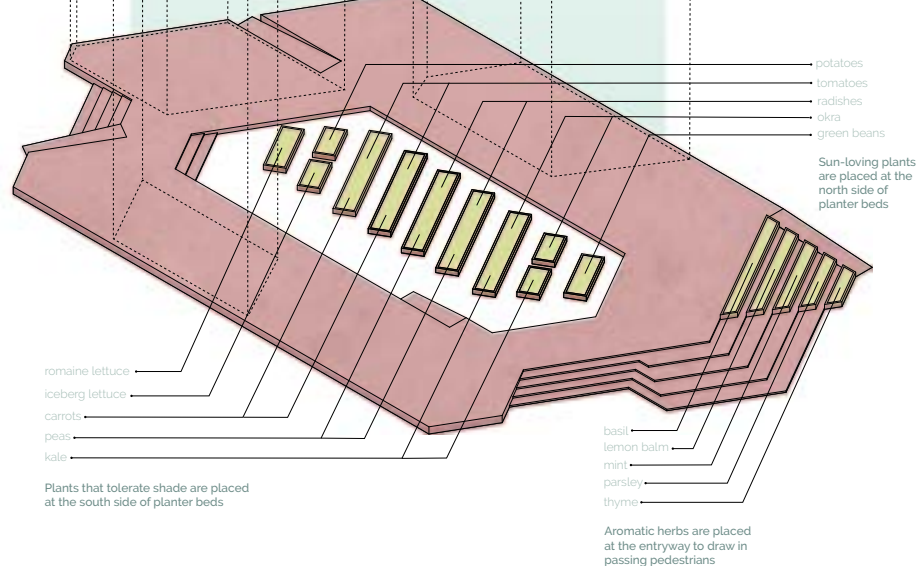
Environmental Learning



Social Learning



Historical Learning

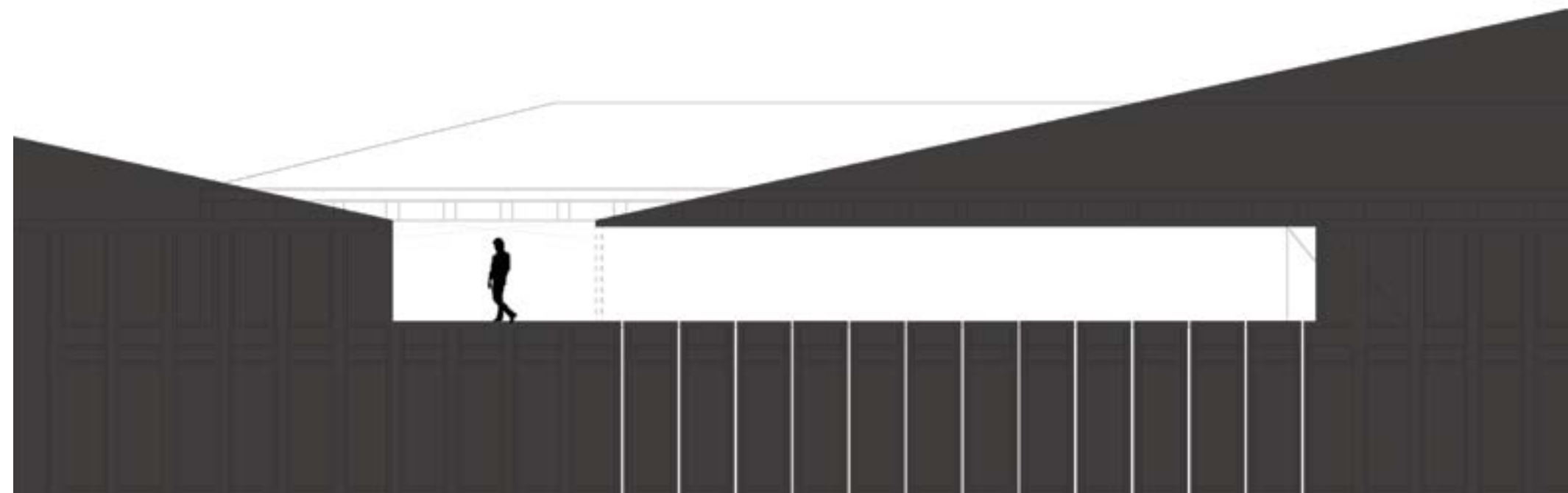


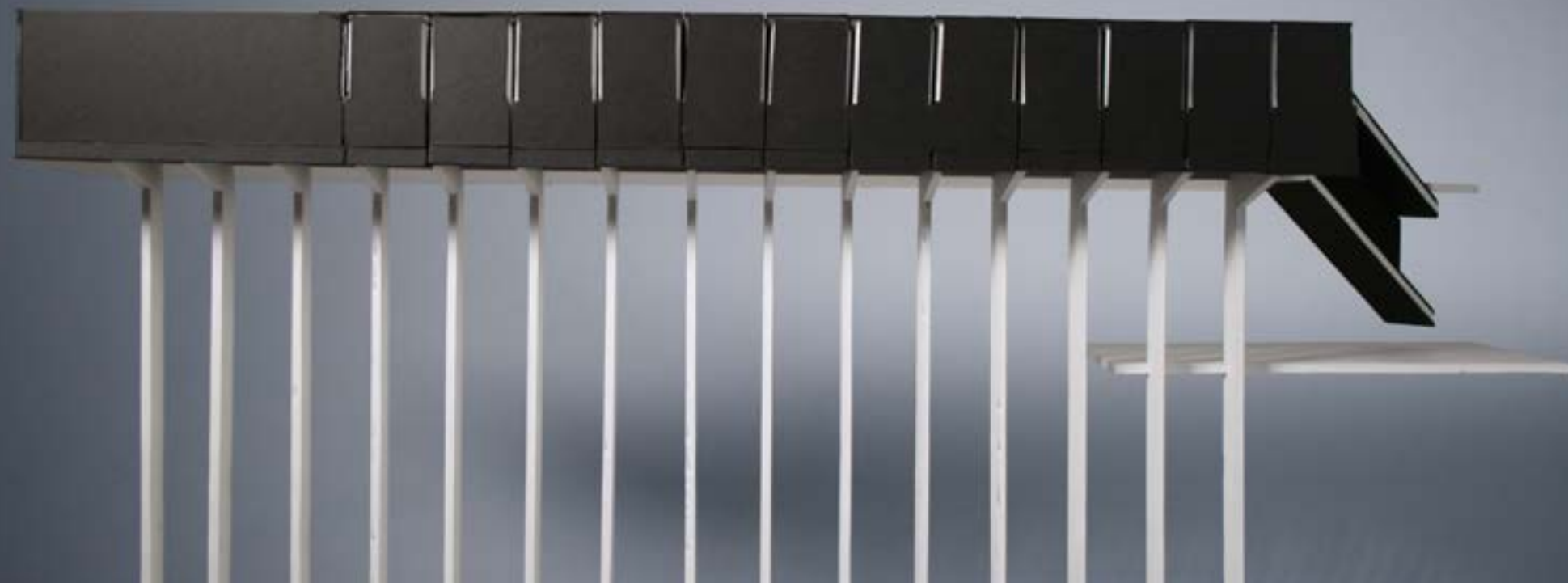
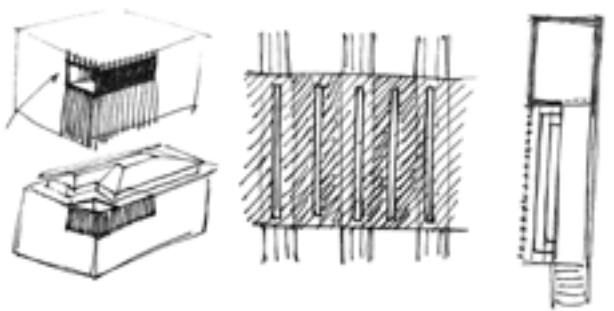
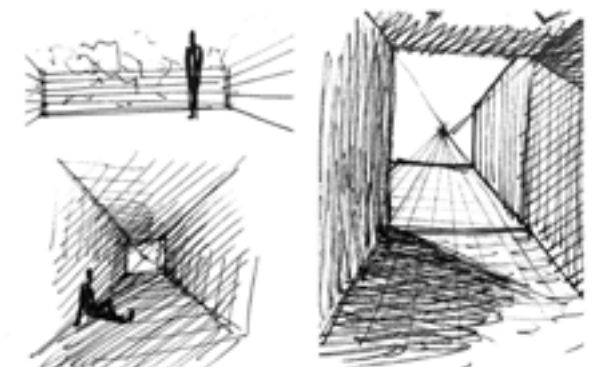
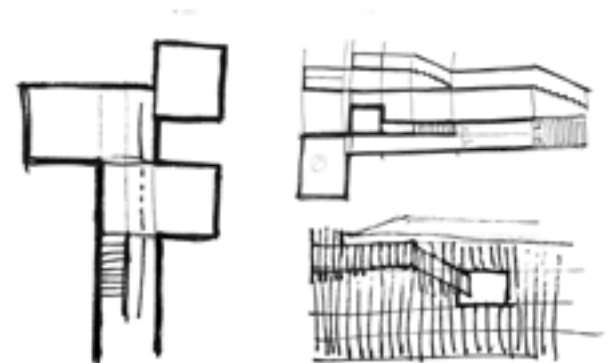


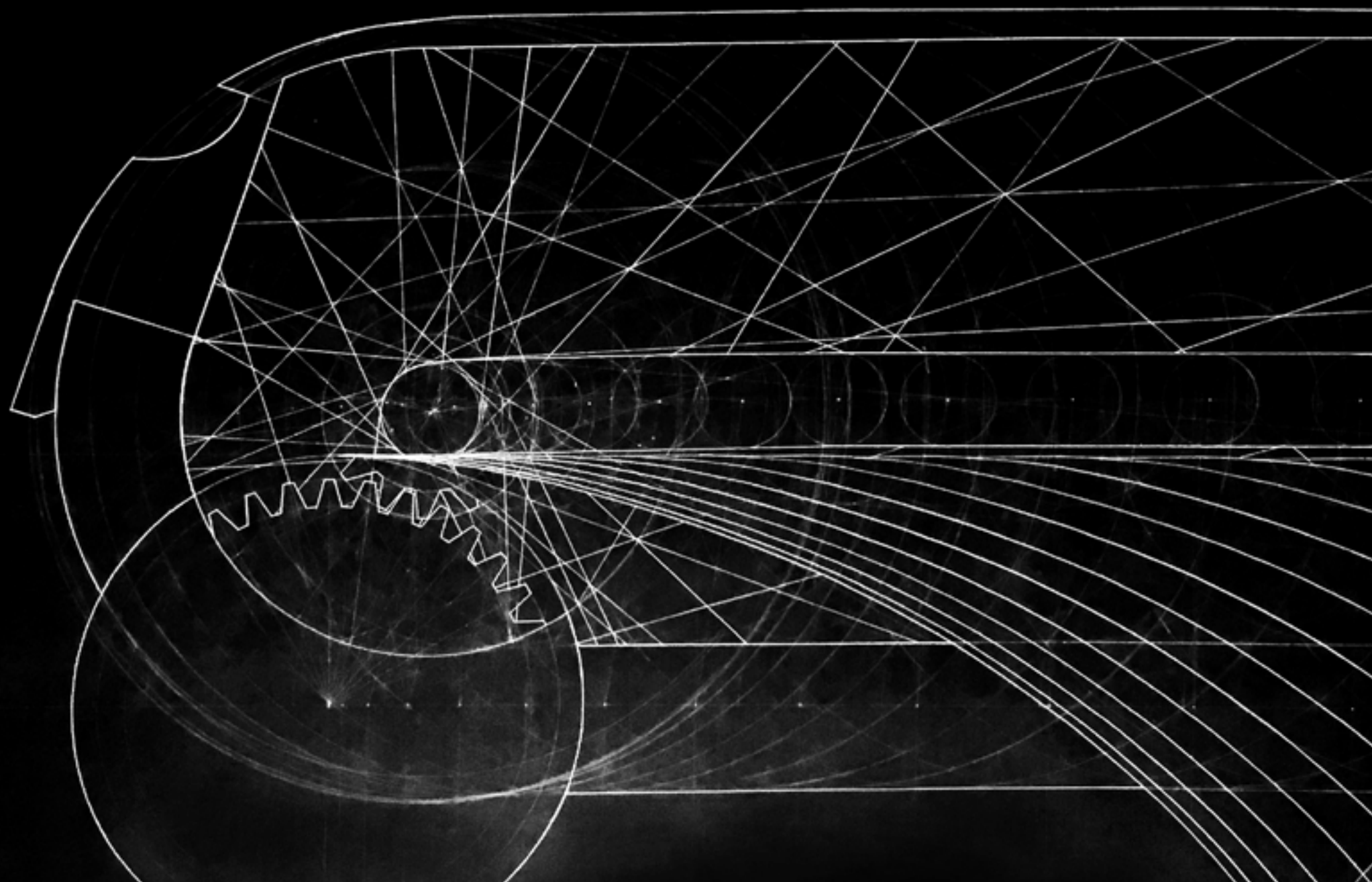
HUNT LIBRARY PARASITE

Studio Foundation II | Spring 2017

In an age of light-speed digital processing and data wells extending to infinity, there exist few places from which to seek shelter from this constant informatic overload. Injected into Carnegie Mellon University's Hunt Library, the Parasite attracts those in search of knowledge and distills one's experience to only the essential truths of nature - light and shadow, raw material and raw space.







TOOL MOTION STUDY

Studio Foundation II | Spring 2017

Progressing from physical object to drawing and back to physical object, the tool motion study began with drawings describing the dynamic properties of an ordinary kitchen garlic dicing tool. These drawings were iterated then translated to built form, producing a wood construction dynamically expressive of the churning, slicing linear nature of the original tool.



