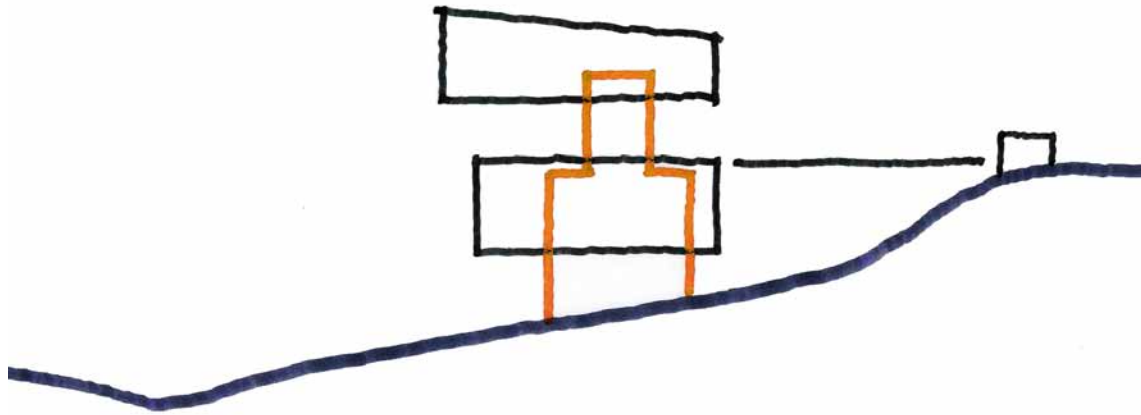




The design concept of this private home literally springs upward from the pristine wooded site. Unbuildable as a spec home property, the unique form of the building is a literal response to the significant site challenges. Wedged between zoning setbacks, a stream buffer and a steep slope, the program massing was squeezed vertically into a three story scheme elevated above the uninterrupted ground plane flowing beneath. Each floor level is expressed as a discrete rectangular volume clad in a different material and spun radially from a 40 foot tall, 18 inch thick solid concrete shear wall. This articulation of the volumes creates a wide variety of habitable outdoor spaces. The lowest level ultimately spills onto a large teak deck beneath the house, which then engages the forest via a stepped concrete pyramid. Fully cantilevered stair treads project from the concrete shear wall and shift from aluminum to maple to ipe, constantly varying the sound and feel of each staircase while allowing light and views to pass through. Vertical circulation always maintains a close connection to the diagrammatic and structural centroid of the building.

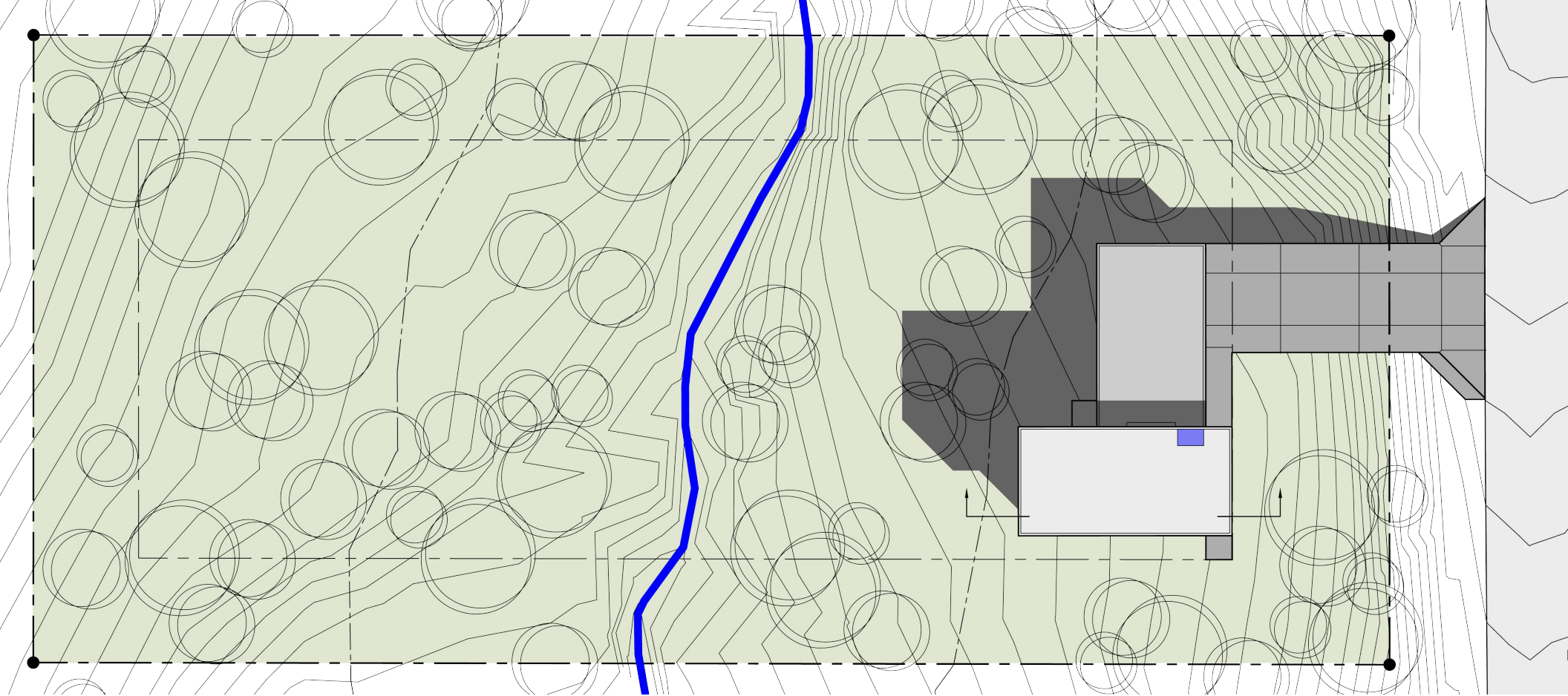
As one approaches the home, an elevated driveway reaches out from the main central volume to the street. This roadside public face has little fenestration in contrast to the all-glass private side, which takes advantage of views facing the forest, the stream and diffuse northern light. All major specimen trees, primarily pine and sweetgum, were saved due to the compact vertical building footprint and lack of site re-grading. The height of the mostly transparent upper volume set within the forest canopy evokes the feeling of a treehouse, as the swaying treetops literally brush the structure. Exposed white metal deck ceilings allow both the environmental sounds of rainfall and natural daylight to permeate the house.

The materials used in construction were steel, concrete, glass, aluminum, zinc, ipe, maple and bamboo. The architect also served as the general contractor and completed the project in 11 months.



1804 pictou road

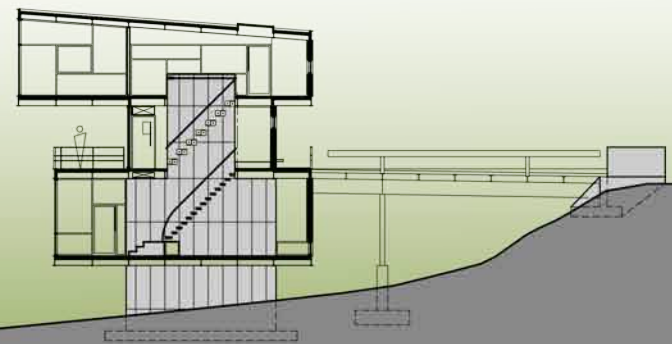




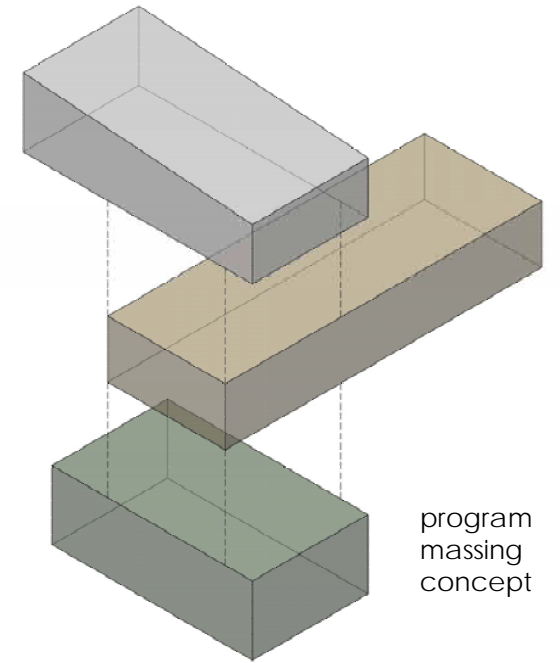
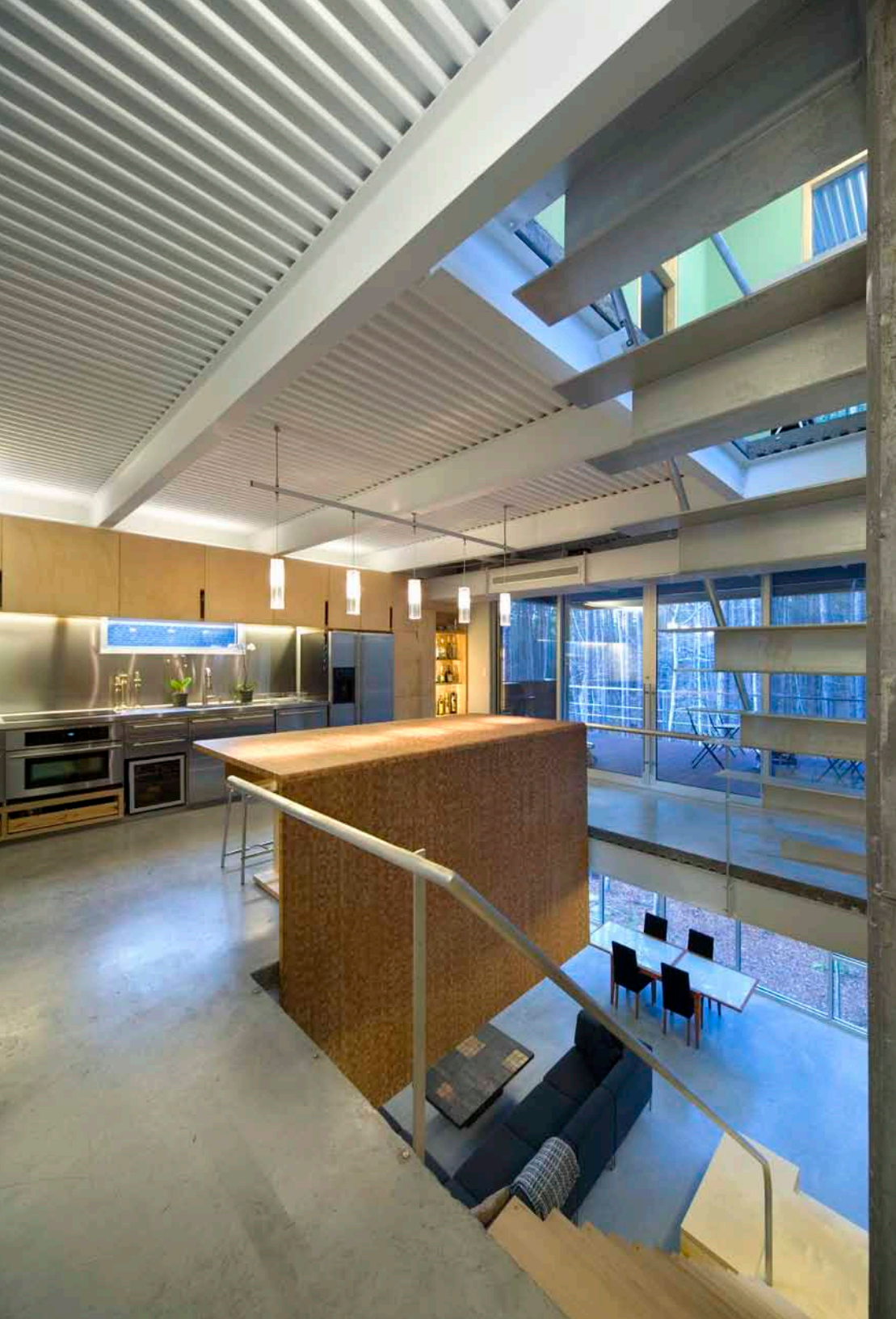
north



site plan

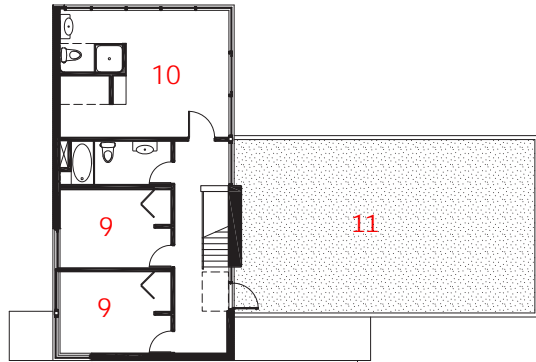


section






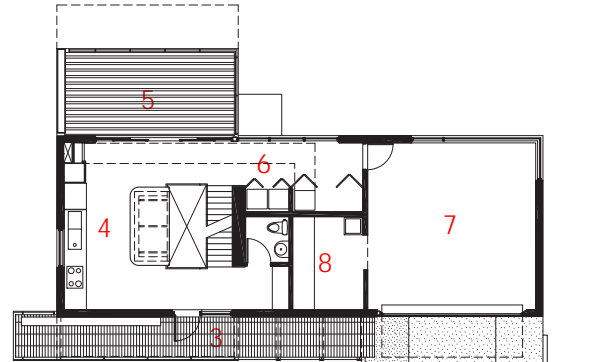
- 1 living room
- 2 outdoor deck
- 3 entry porch
- 4 kitchen/dining
- 5 dining balcony
- 6 utility
- 7 garage
- 8 workshop
- 9 bedroom
- 10 master bedroom
- 11 green roof terrace



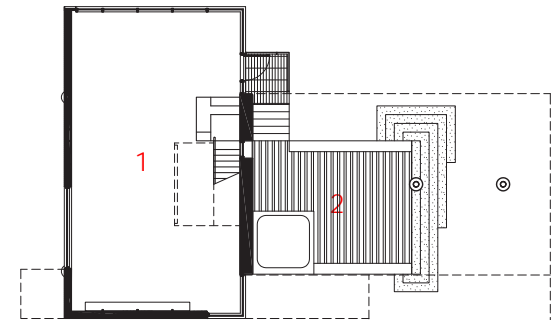
upper level

15 5 0

north 

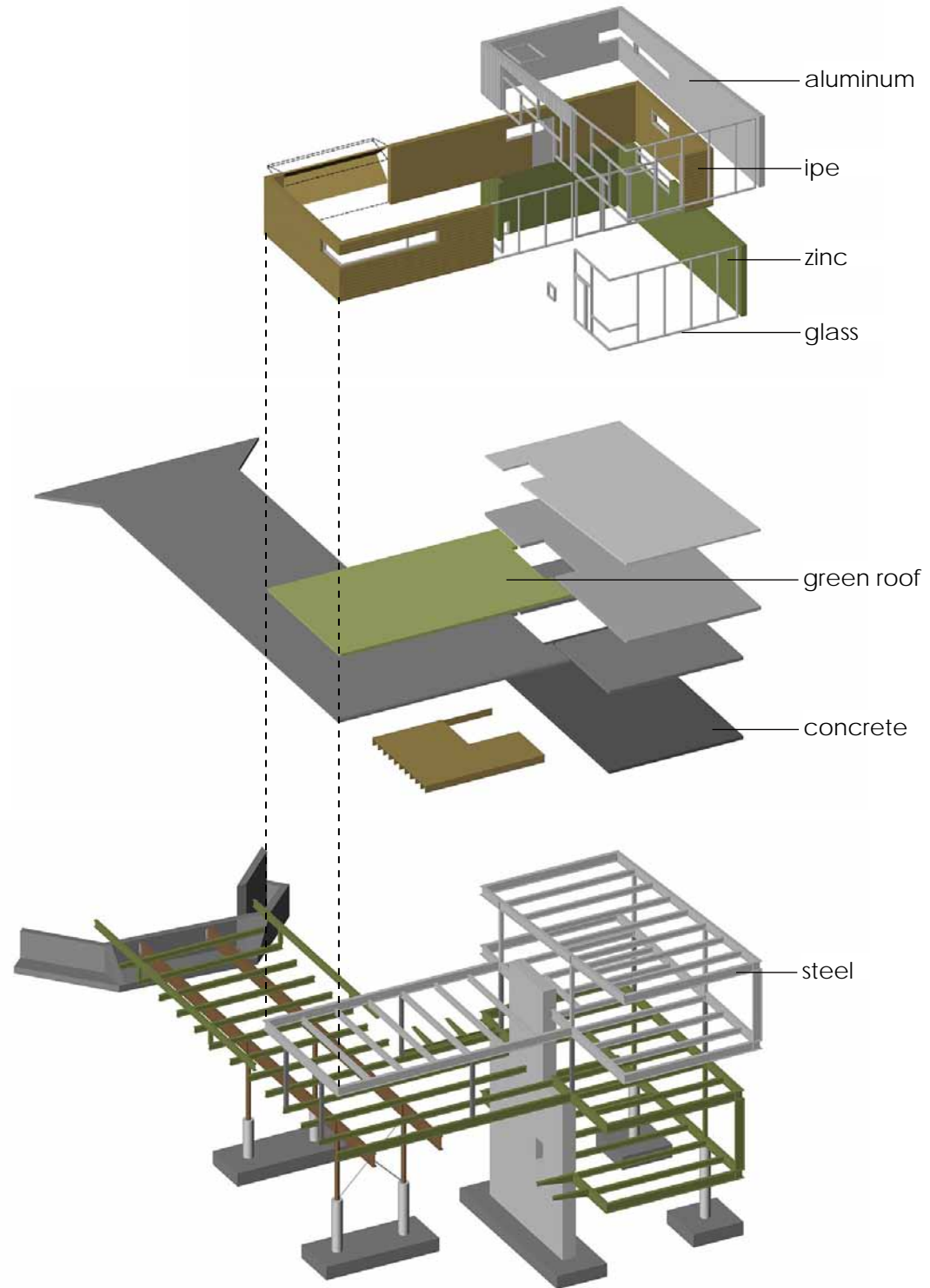


street level

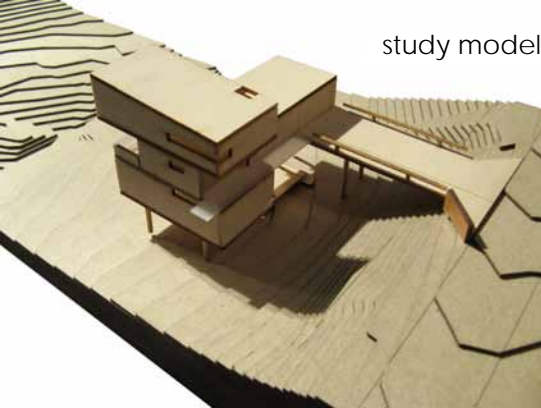
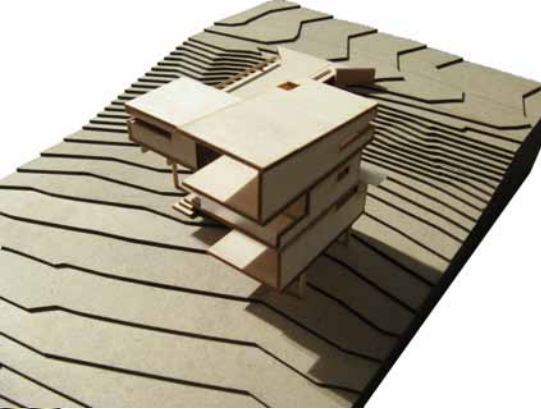
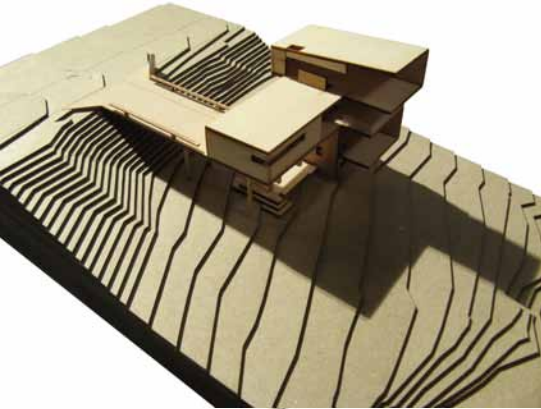
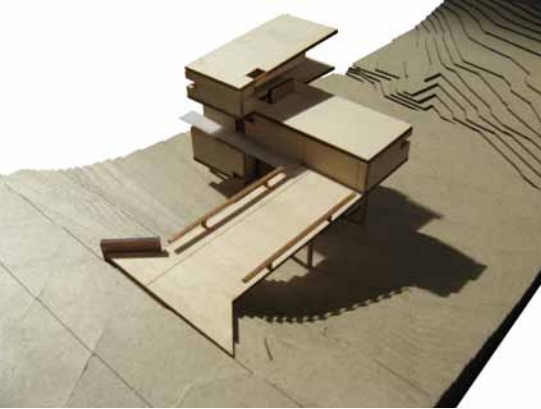


lower level





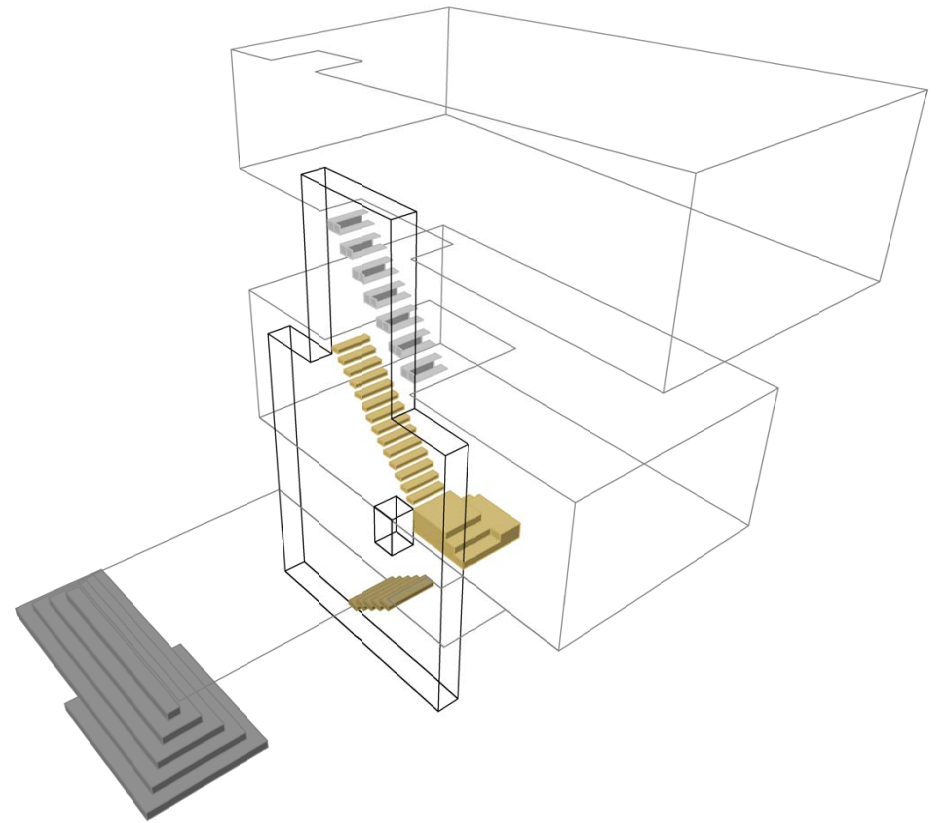




study model



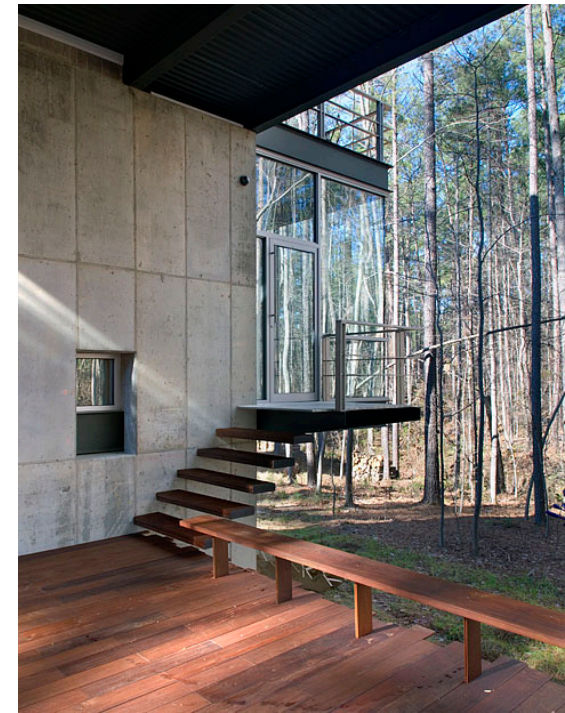




Vertical circulation concept:

Stair materials lighten as they ascend shear wall

- aluminum
- maple
- ipe
- concrete





Sustainable design principles:

- Recycled construction waste
- Site orientation
- Reduced site disturbance
- Water efficient landscaping
- Daylight harvesting
- High R-value rigid insulation
- High albedo roofing
- Vegetated roof
- High efficiency heat pump
- Tankless hot water heaters
- Renewable materials (bamboo)
- Recycled materials (concrete, steel, aluminum, zinc, glass)

