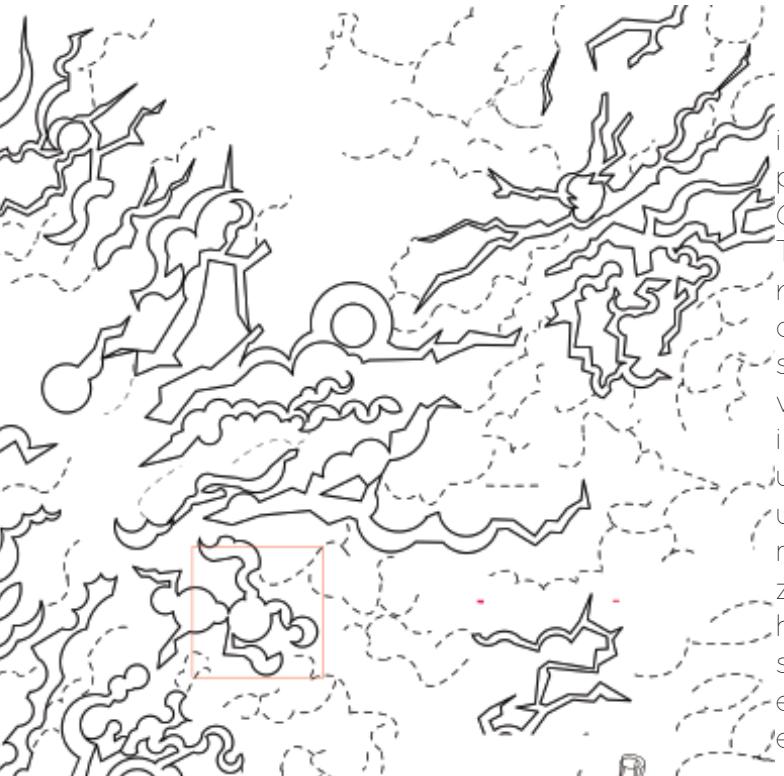
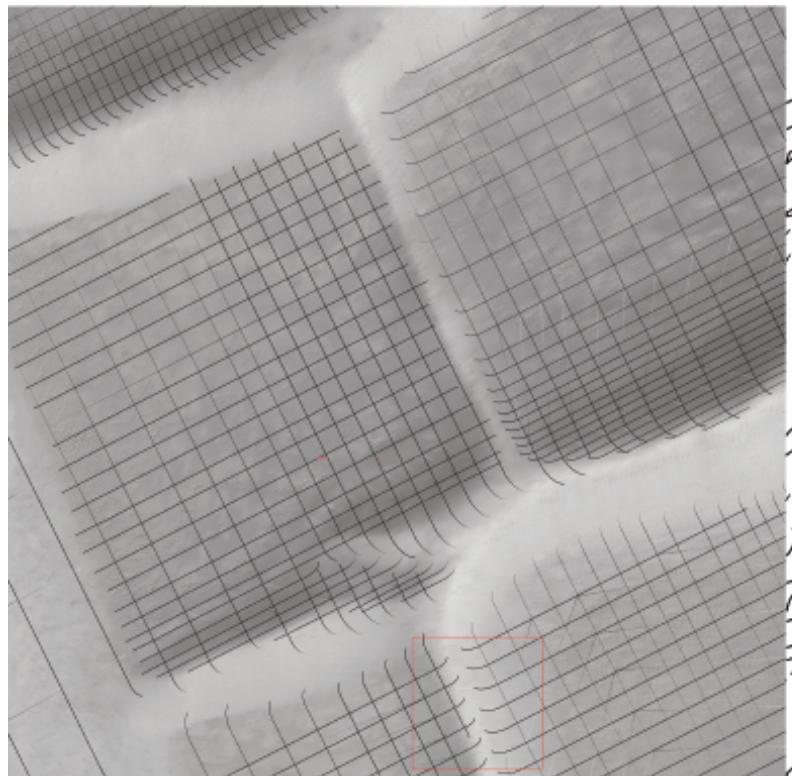
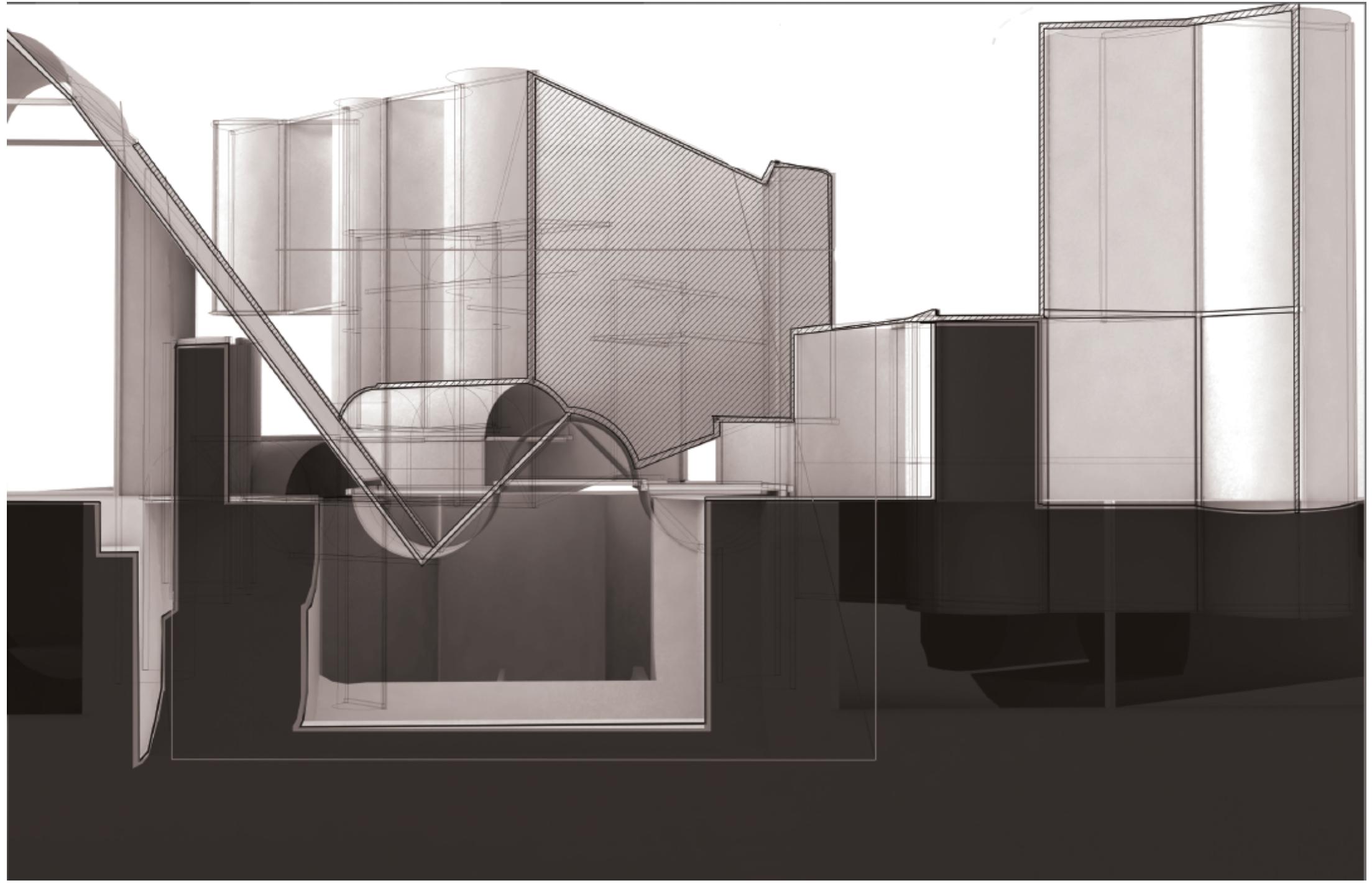


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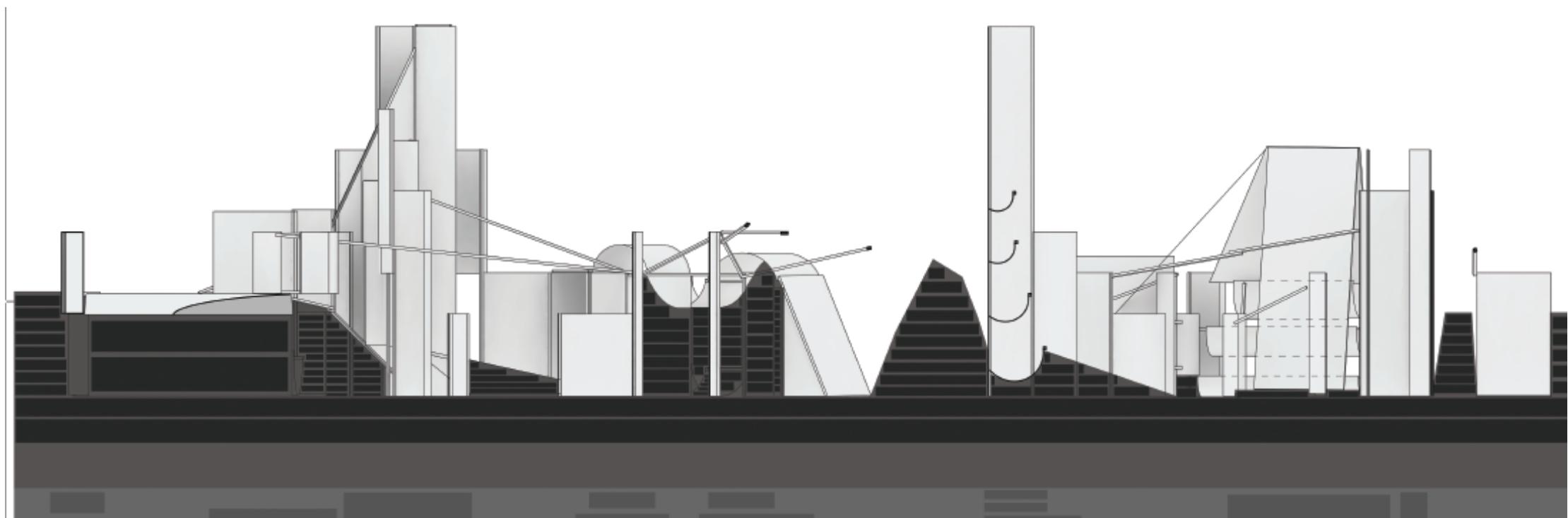
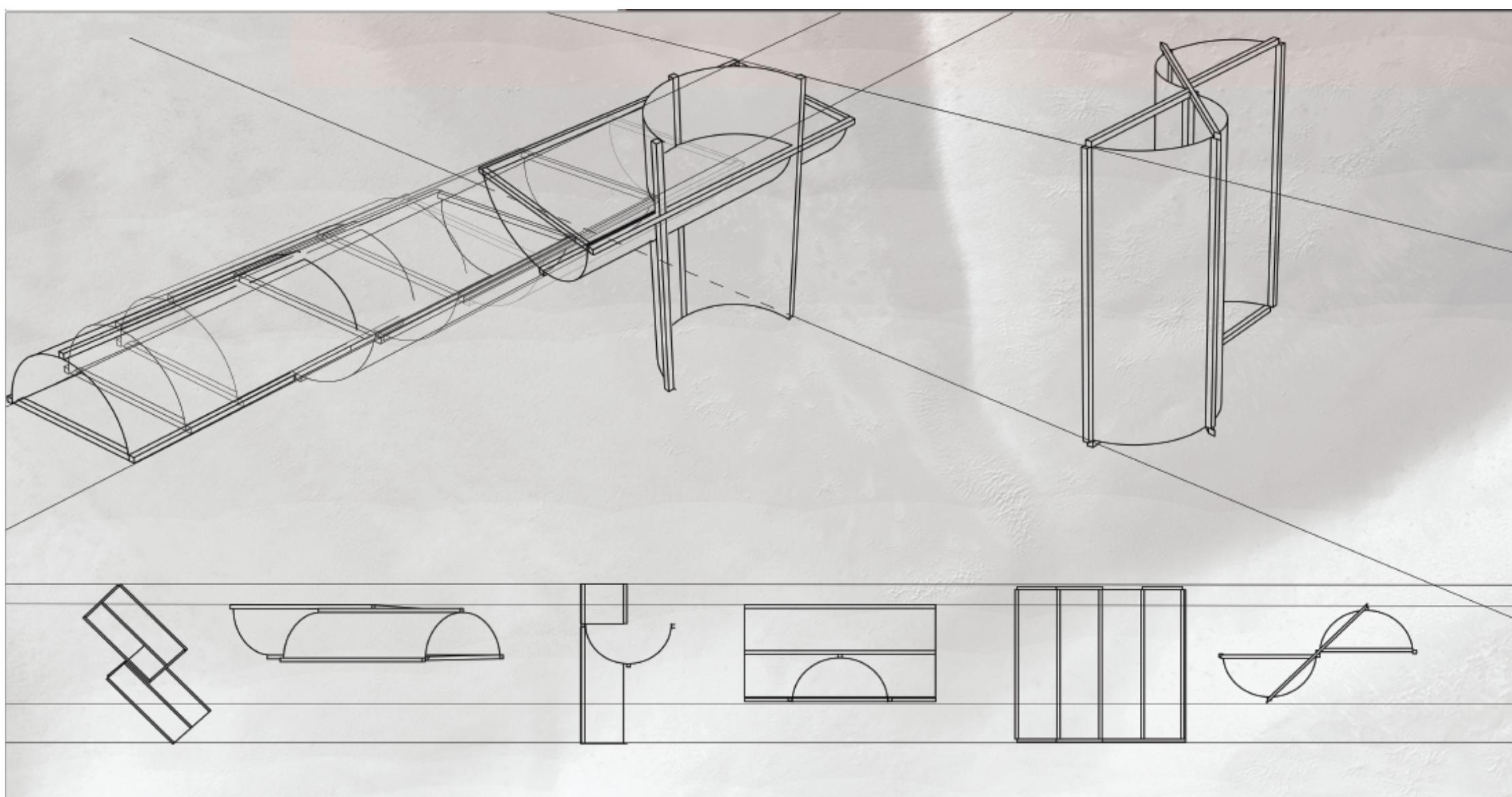
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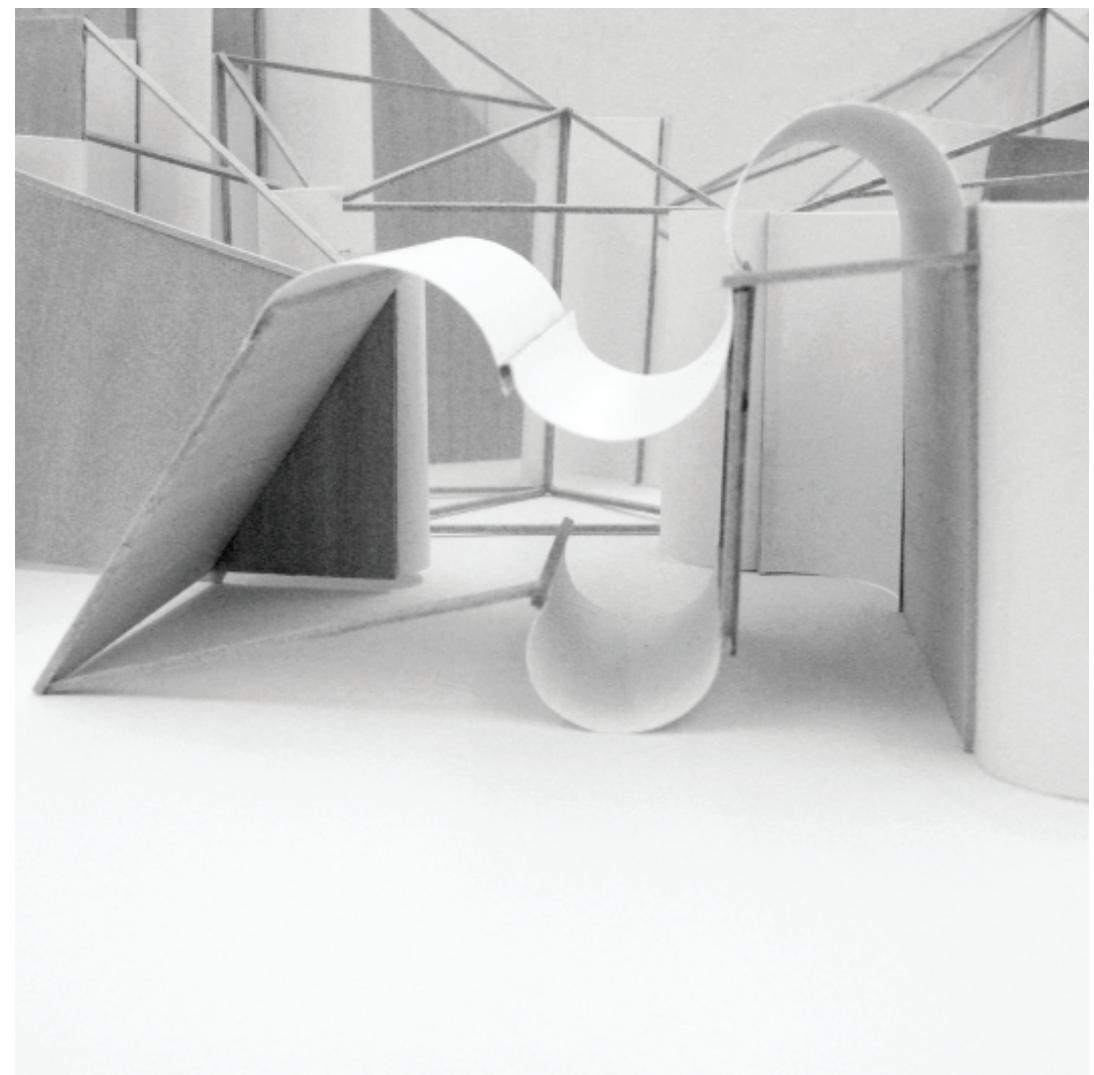
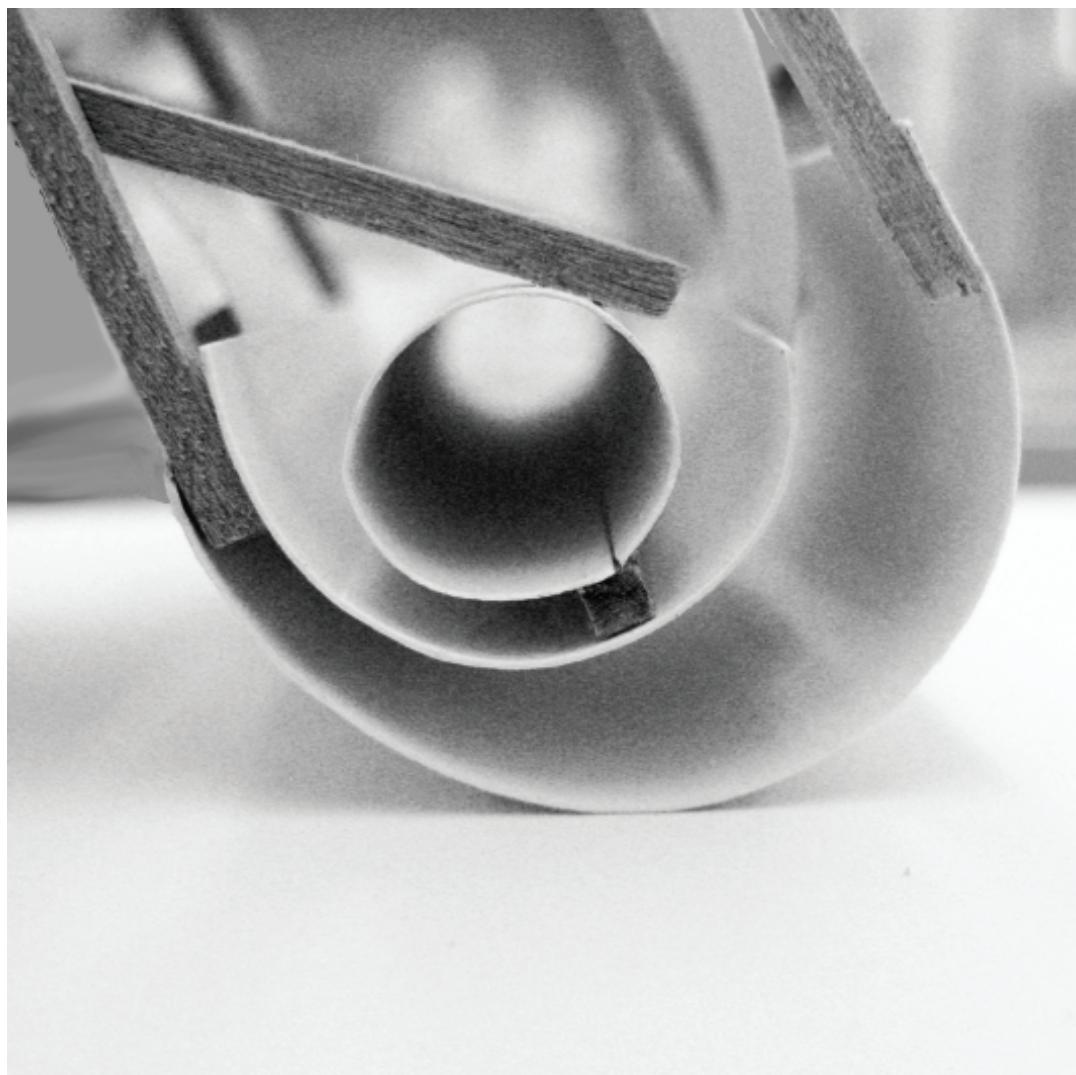
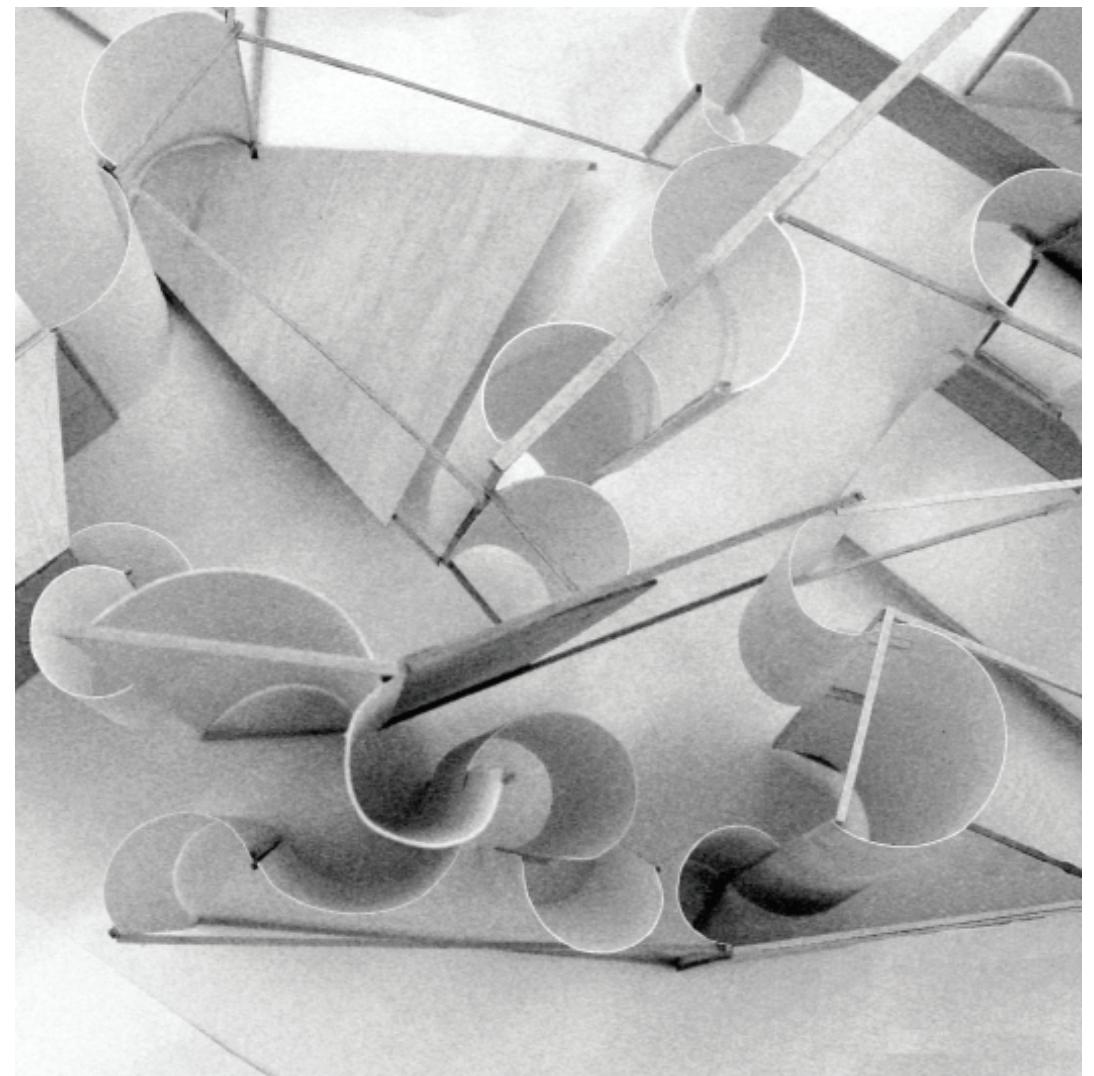
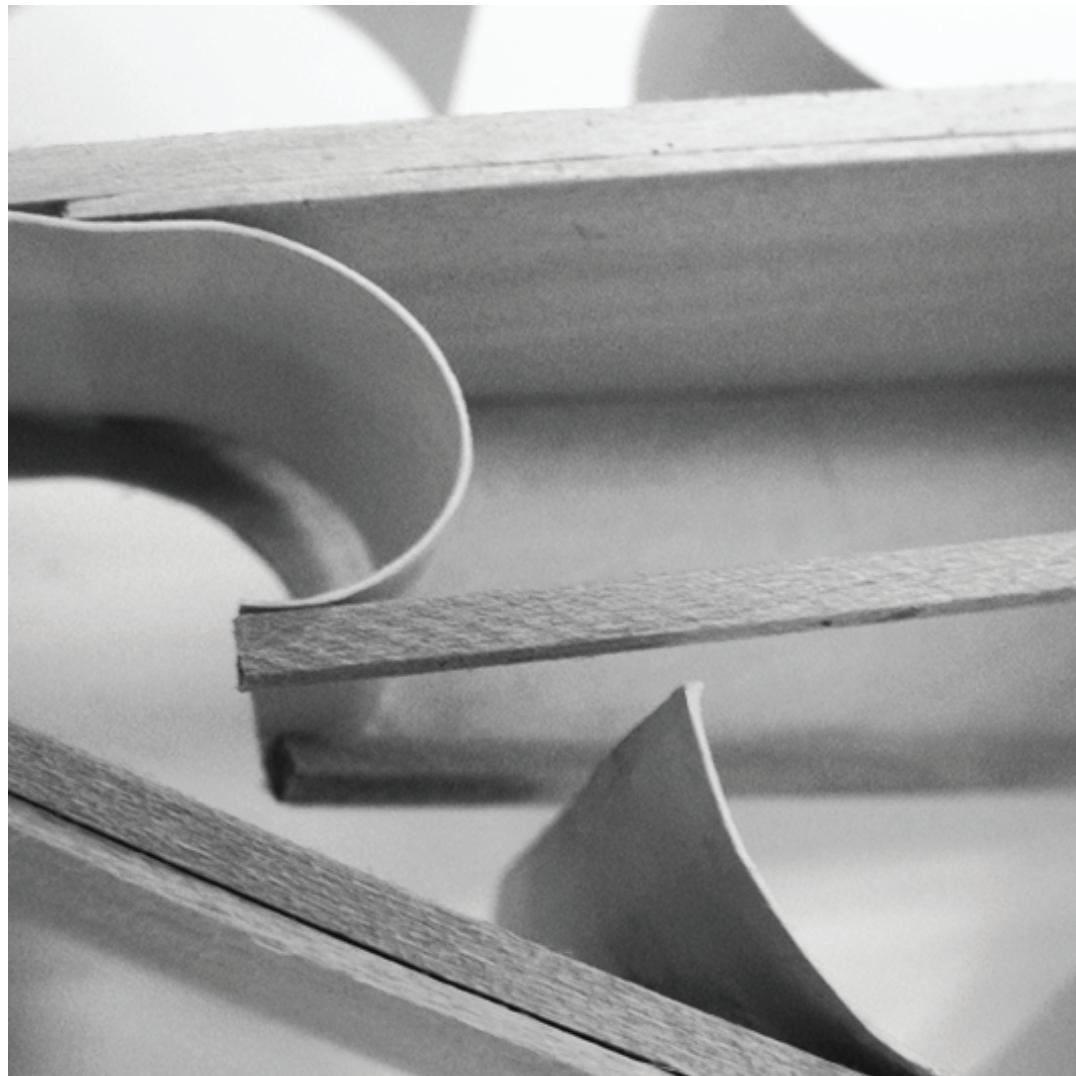
First Semester emergence in a mars landscape	1-3
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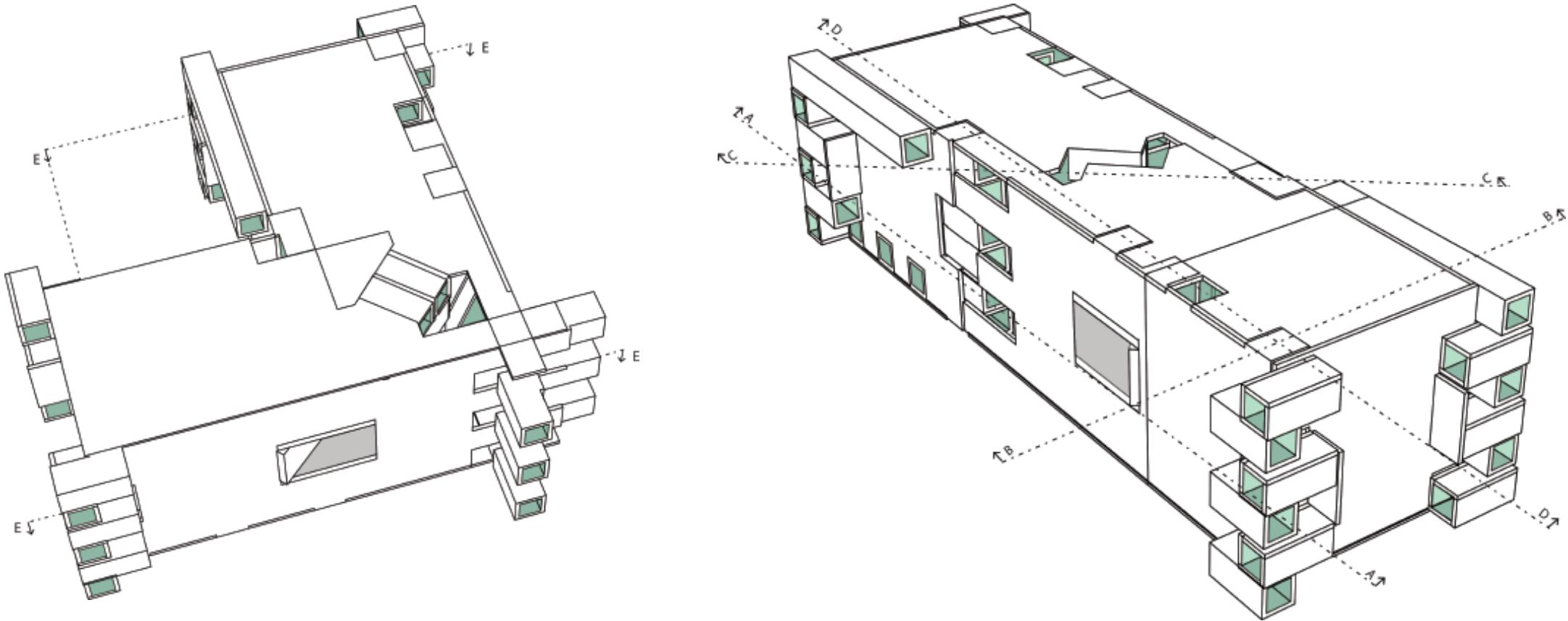


Emergence In a Mars Landscape

Emergence is a natural phenomenon in which a pattern arises out of a complex system. Emergence occurs in *Inca City*, the area on Mars studied here. This landscape displays a randomness represented by hills and an emerging order represented by peaks. The landscape model uses the height and the width of each roll to represent emerging peaks in the short and generally unravelled field. The final hill model uses a system (illustrated left) which is more structural and explores the horizontal-to-vertical relationships between hills and peaks to open up occupiable spaces. This system suggests how the emerging landscape can form normal elements of enclosure.

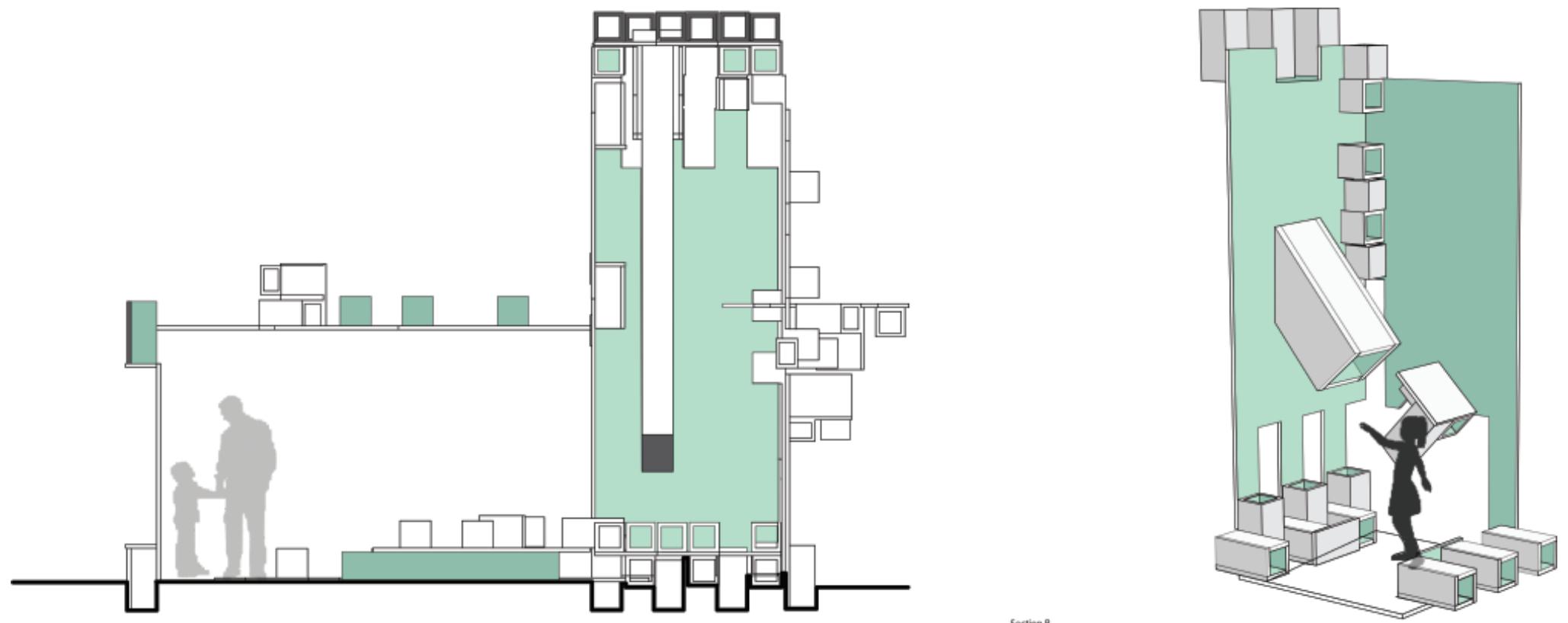




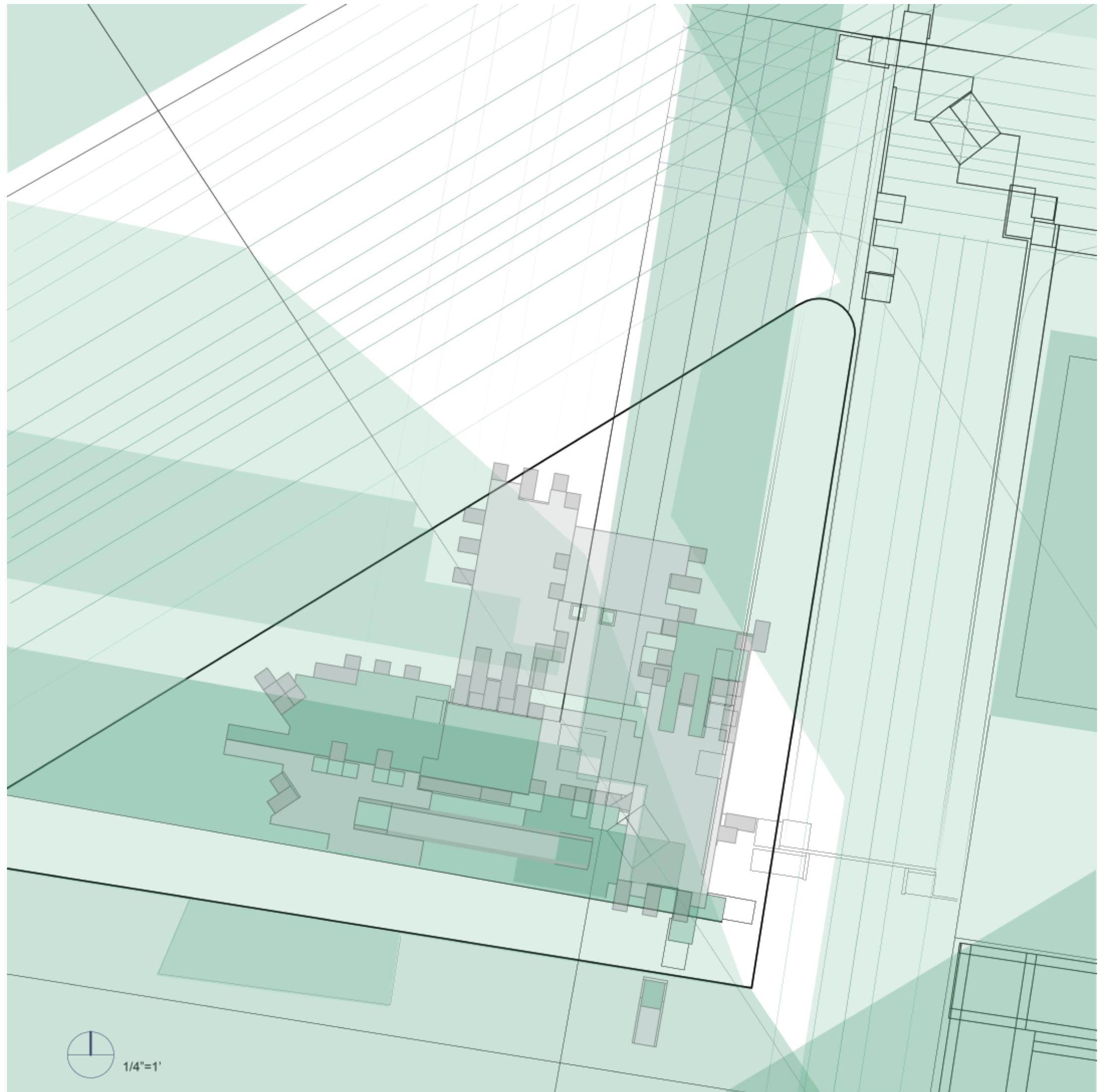


Reconfiguration Pavilion

This pavilion is based on the deployment of a box. This box can be configured with its halves forming a corner or a rectangular box. The pieces that make up this box can be reconfigured using rectangular tubes which lock the panels together. From these pieces I derived my pavilion. The lowest covered sections are entrances to the main space. The middle height is a general gathering area with varied panels on the roof to allow diffused light into the space. The highest covered space in the back corner marks where performances can take place. The main entrance is the corner of the building where the walls hang down to half the height of the pavilion. To the right of this there is a striated façade, and to the left there is a passage towards an entrance next to the performance area. The covering uses the rectangular tubes to separate panels vertically and layer the space. They also connect the corners (as they did in the joint) and the wall to the ceiling. The striations in the elongated blocks, in the longest of the modular pieces, in the walls and ceiling create a screen which allows light to pass through. These also allow people on the outside to see what is going on and invites them in. The entire pavilion is situated on the site at an angle to invite pedestrians from both sides into the site. It also faces a small area across the street which people stand in to look at the river, and the adjacent monument. The pavilion is a plaza-like area with little interior divisions, to attract people from the inside and outside towards an events that occur there.

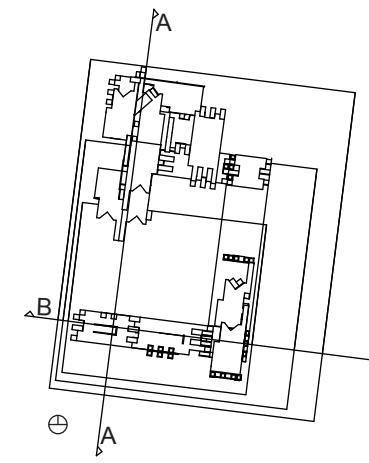
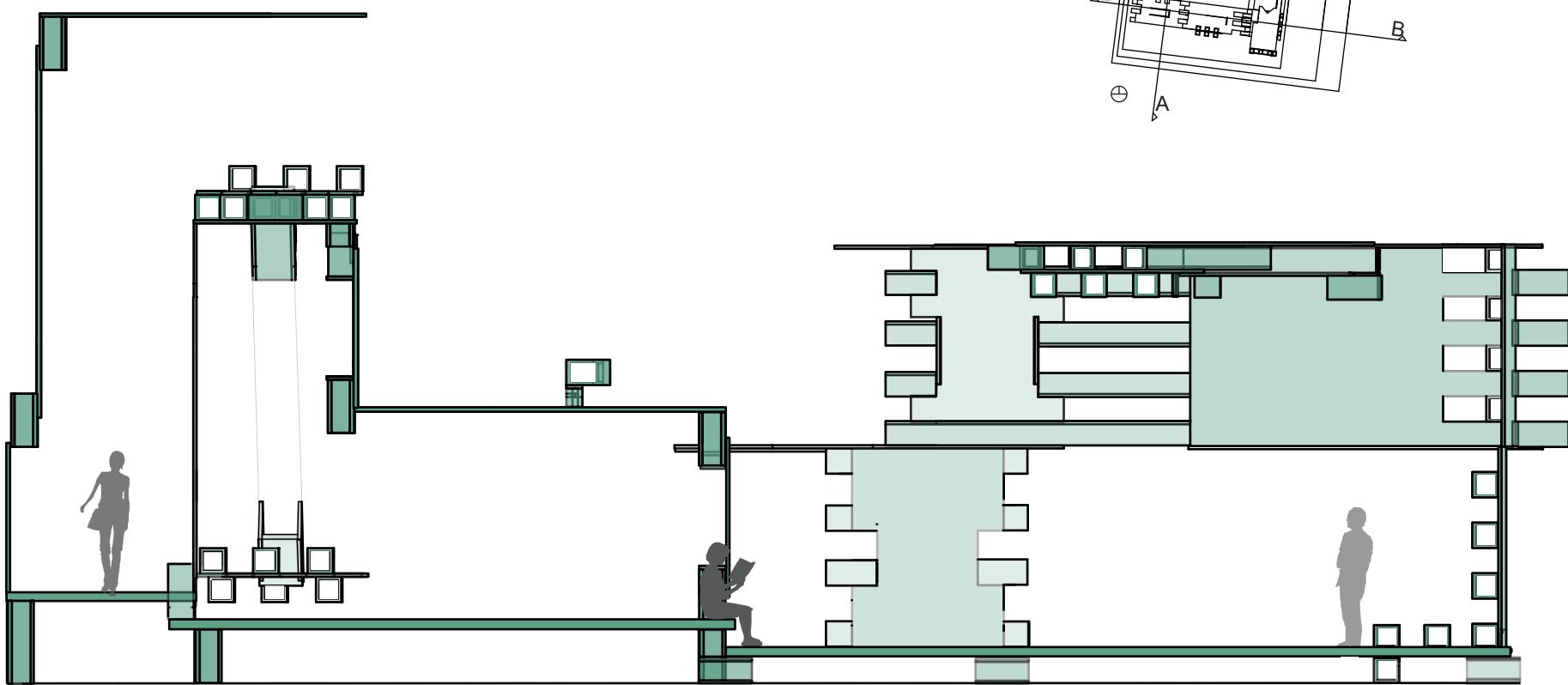


Section B

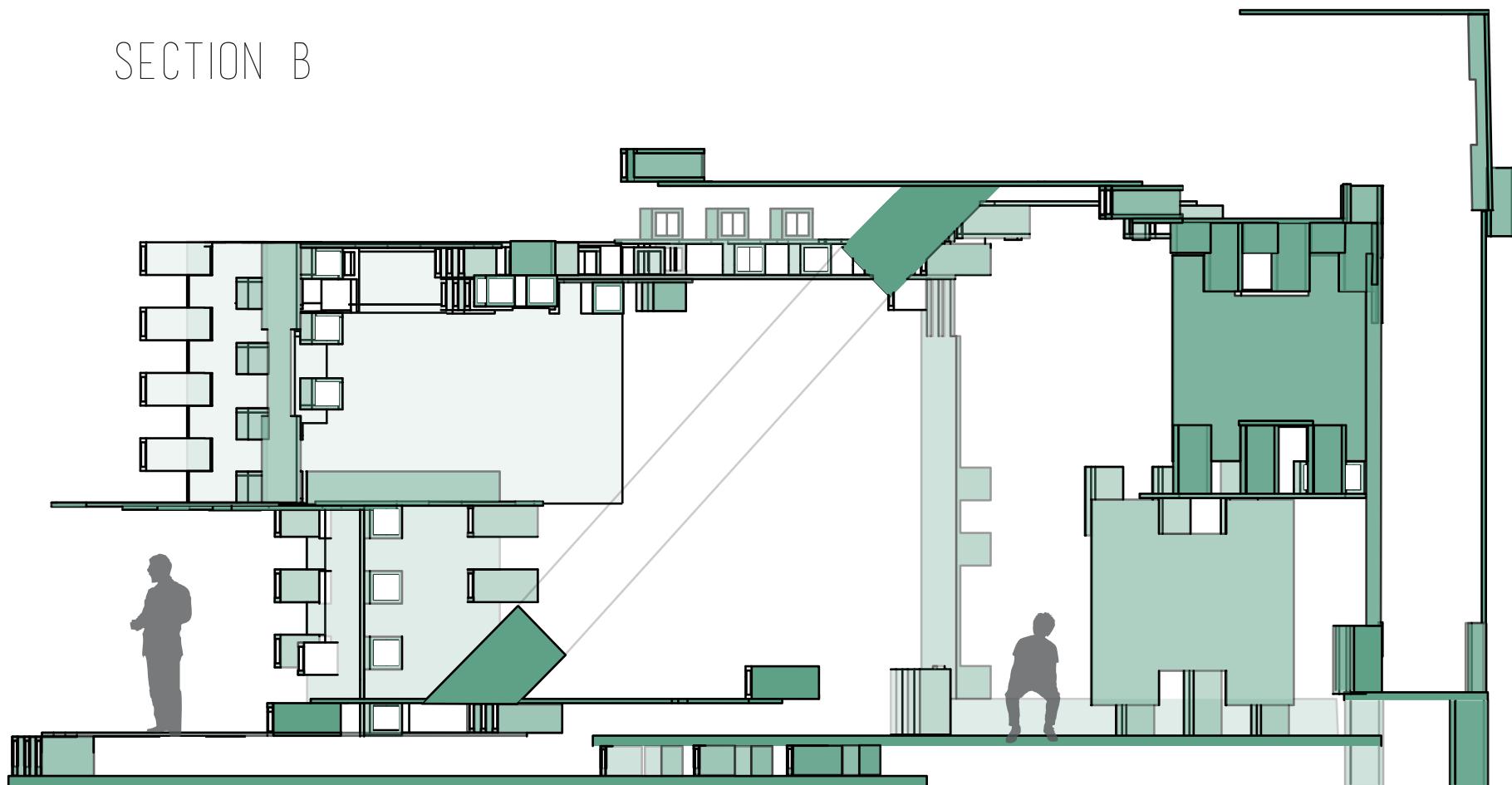


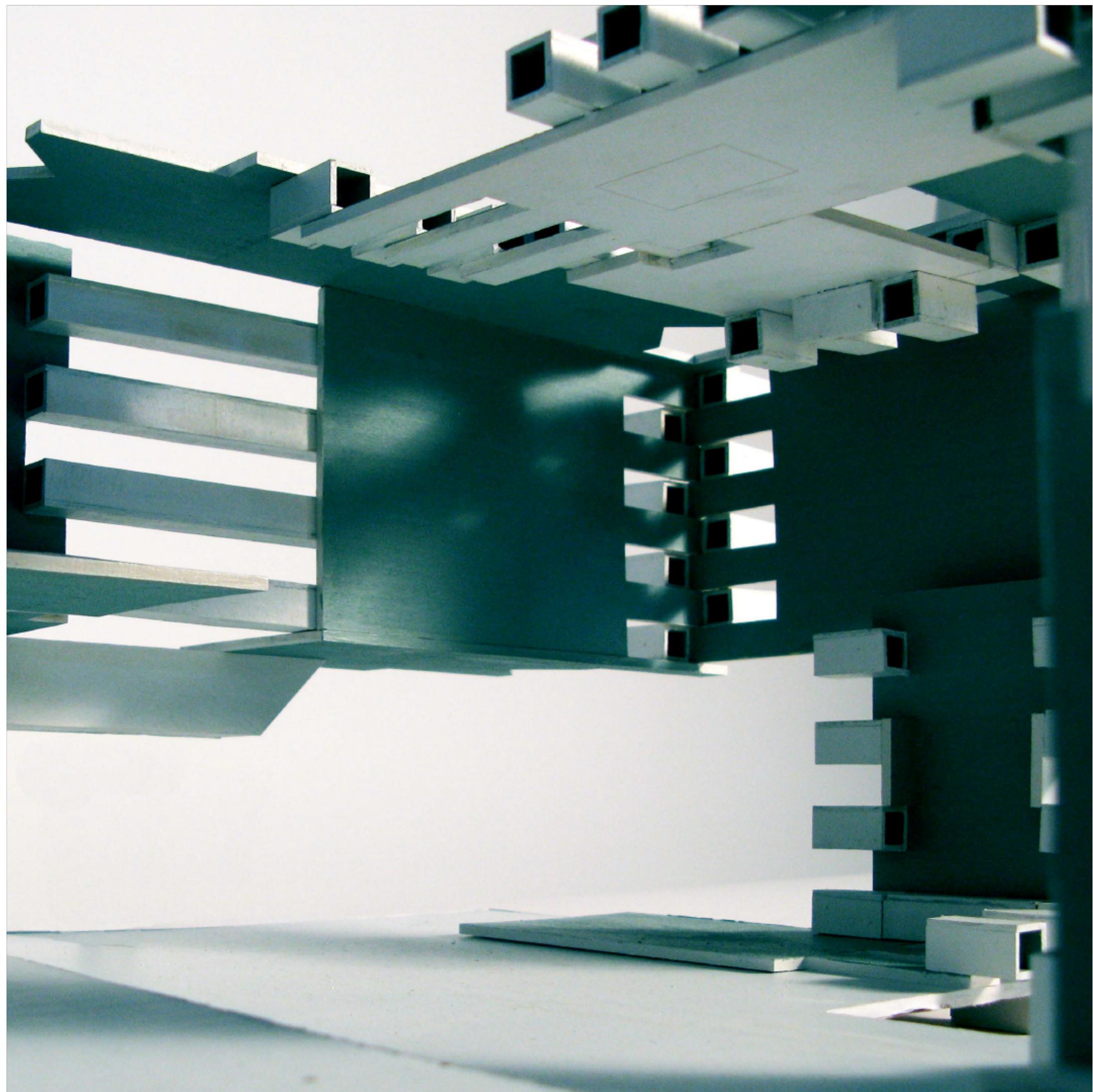
1/4"=1'

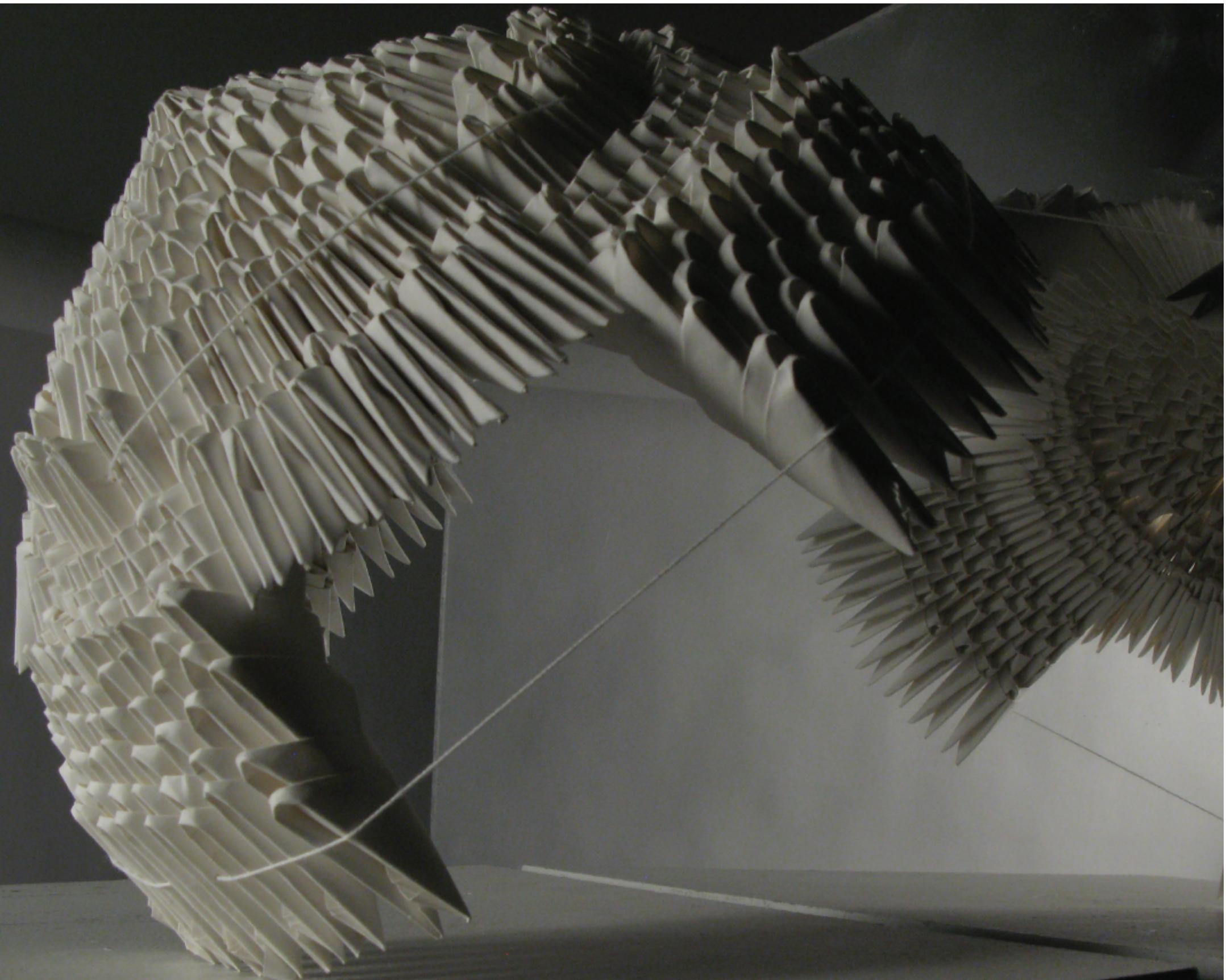
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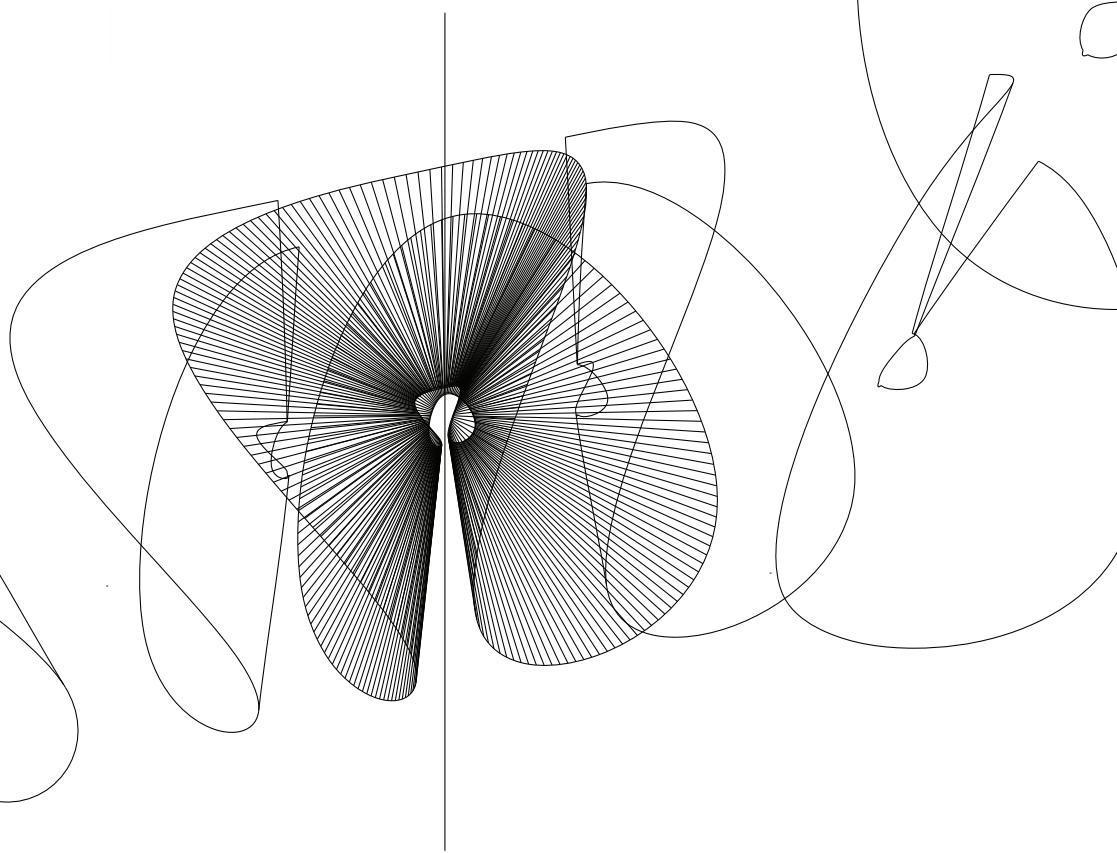
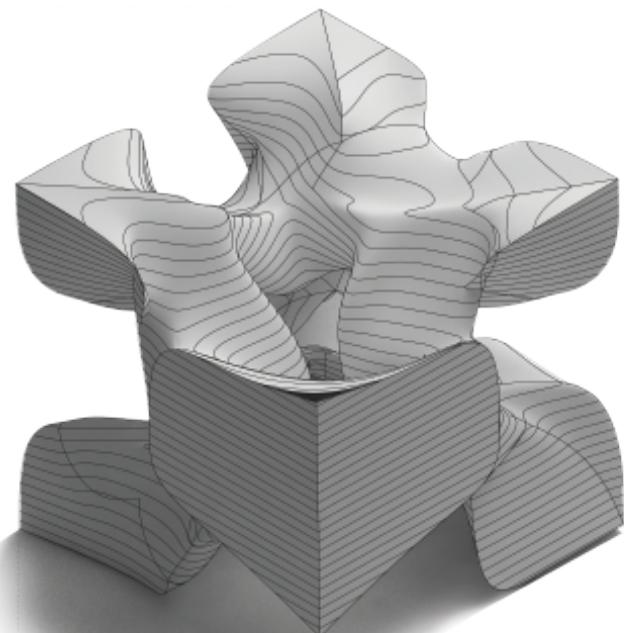


SECTION B





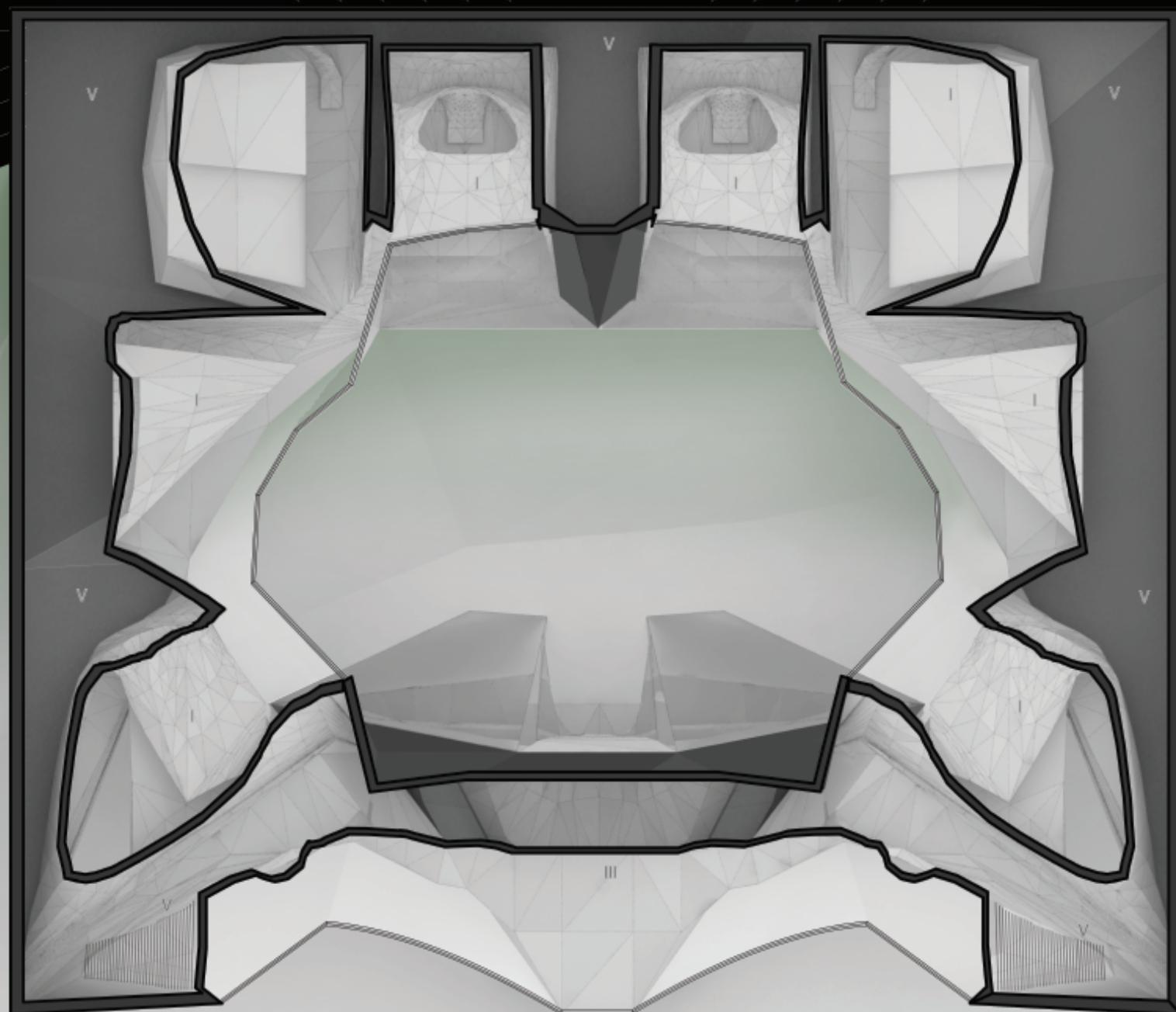




Ennepular Artist Residency Storm King Arts Center

My cubic analysis, created with subdivisional modelling is based on Spheric Theme a sculpture by the constructivist sculptor Naum Gabo. From this, a surface that turns itself inside out is drawn and applied to a normative rectangular prism situated on Storm King's hilly landscape. The residency is glazed along the curving surface and allows for interior views for the residents to focus on their work in each lofted live/work space, and exterior views in the public dining and gallery spaces. The living space interiors are pulled out of the walls along the curve to create individually designed rooms meant to draw attention into the center courtyard of the residency.





Plan I

- I Studio Loft
- II Living Space
- III Gallery
- IV Dining and Administration
- VCirculation



Plan II

- I Studio Loft
- II Living Space
- III Gallery
- IV Dining and Administration
- V Circulation

Multi-unit Housing

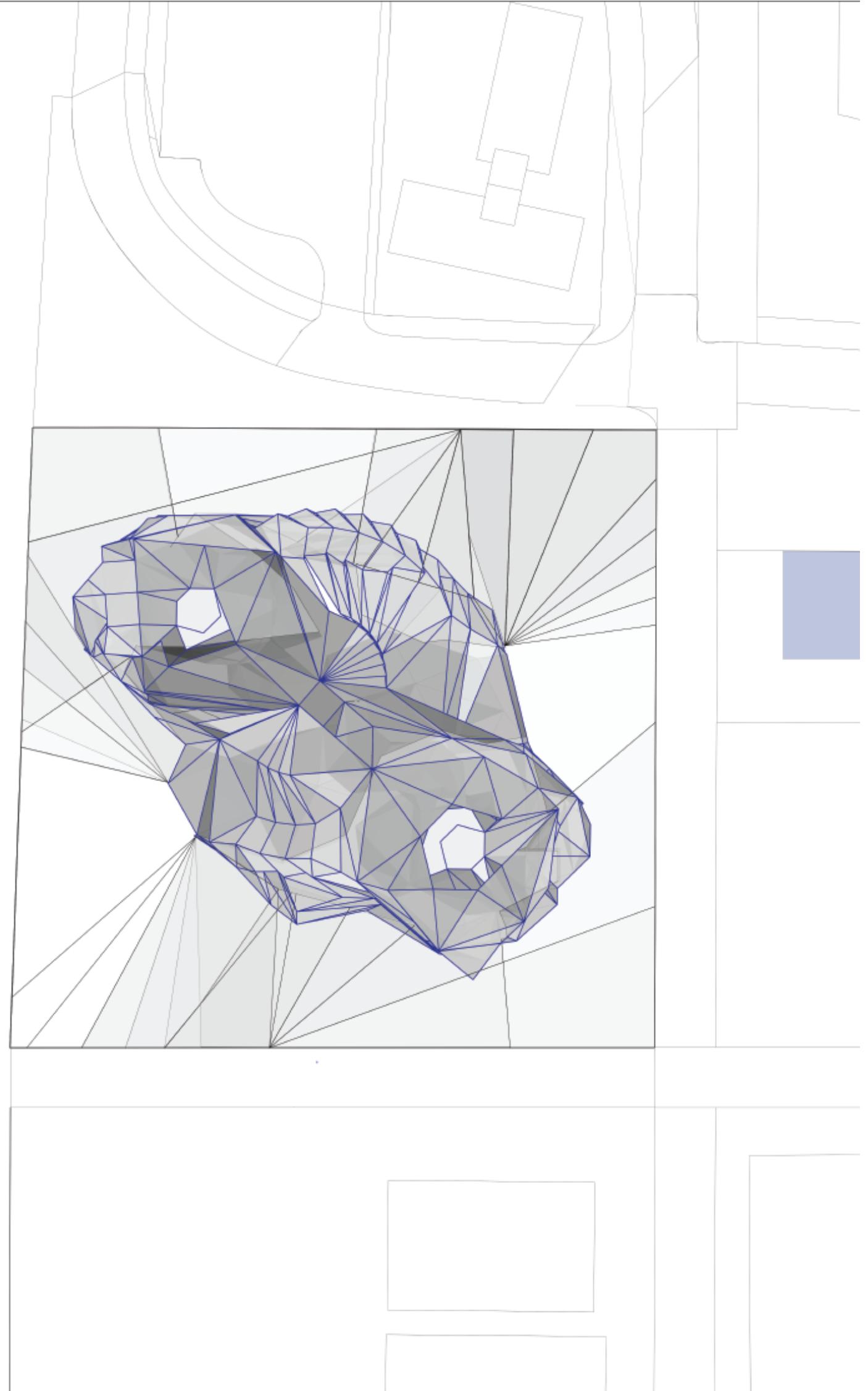
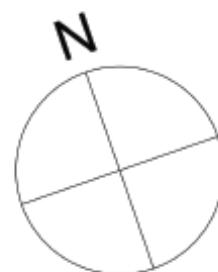
Partner Kelly Liu

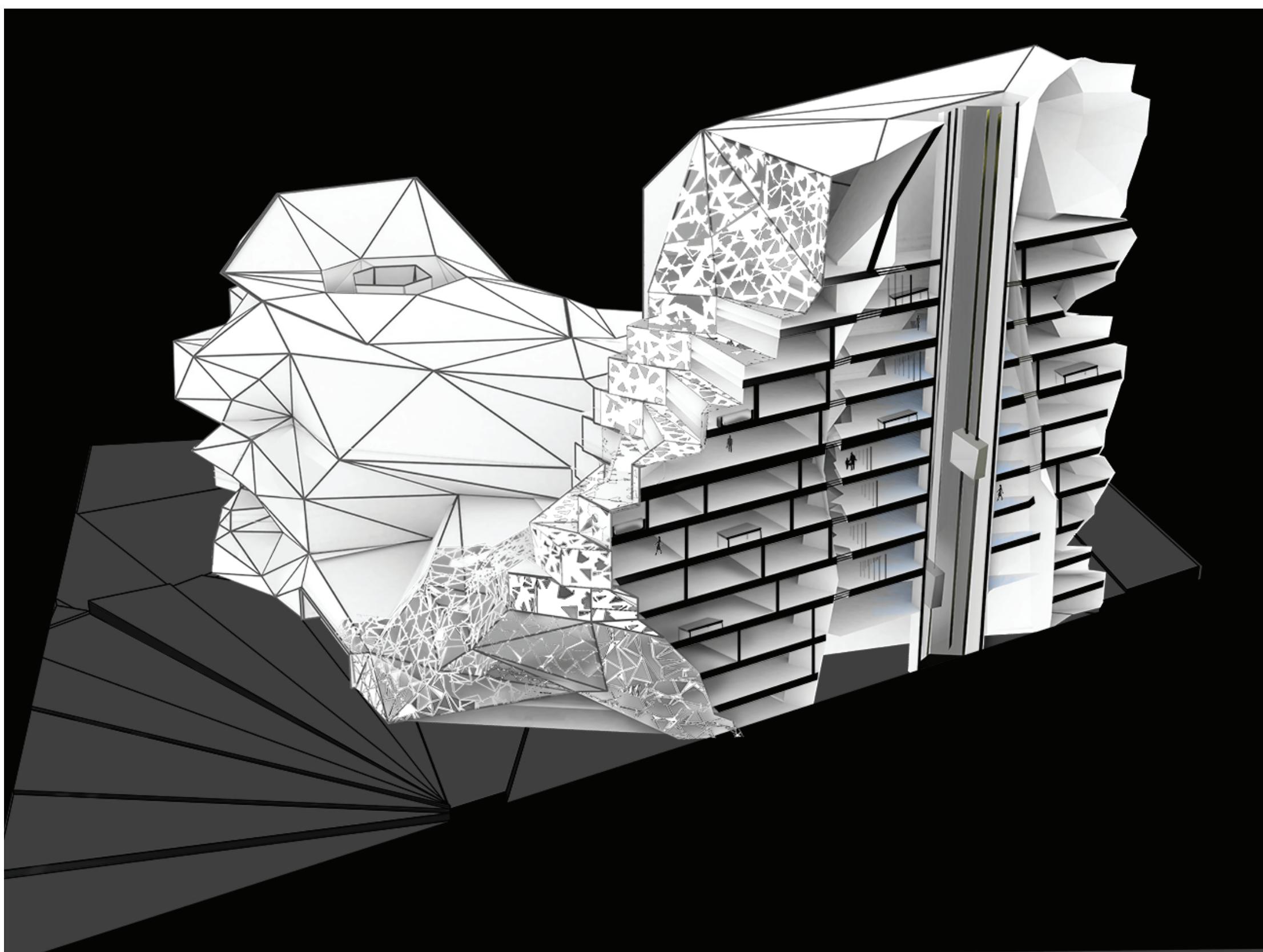
This is a proposal for a sustainable community style living space for the orthodox jewish residents of Troy, New York.

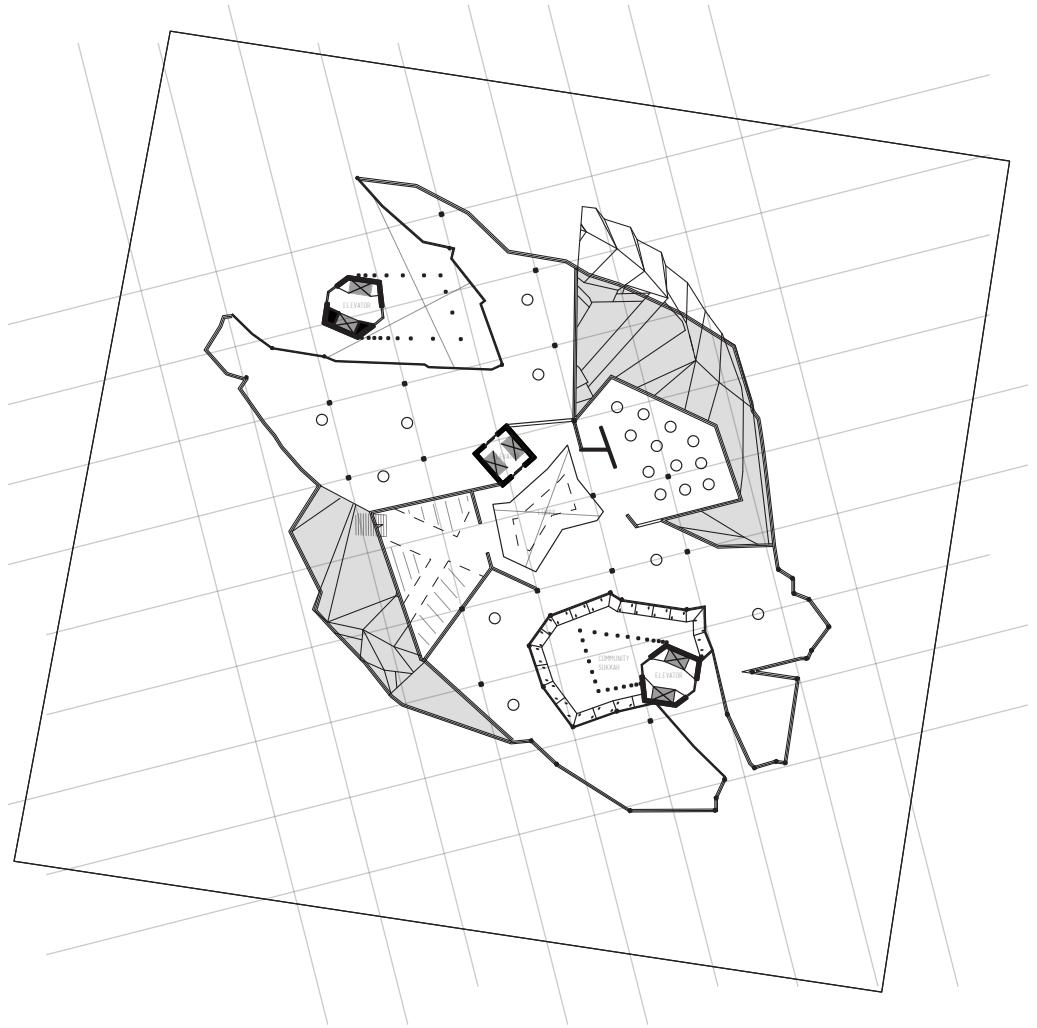
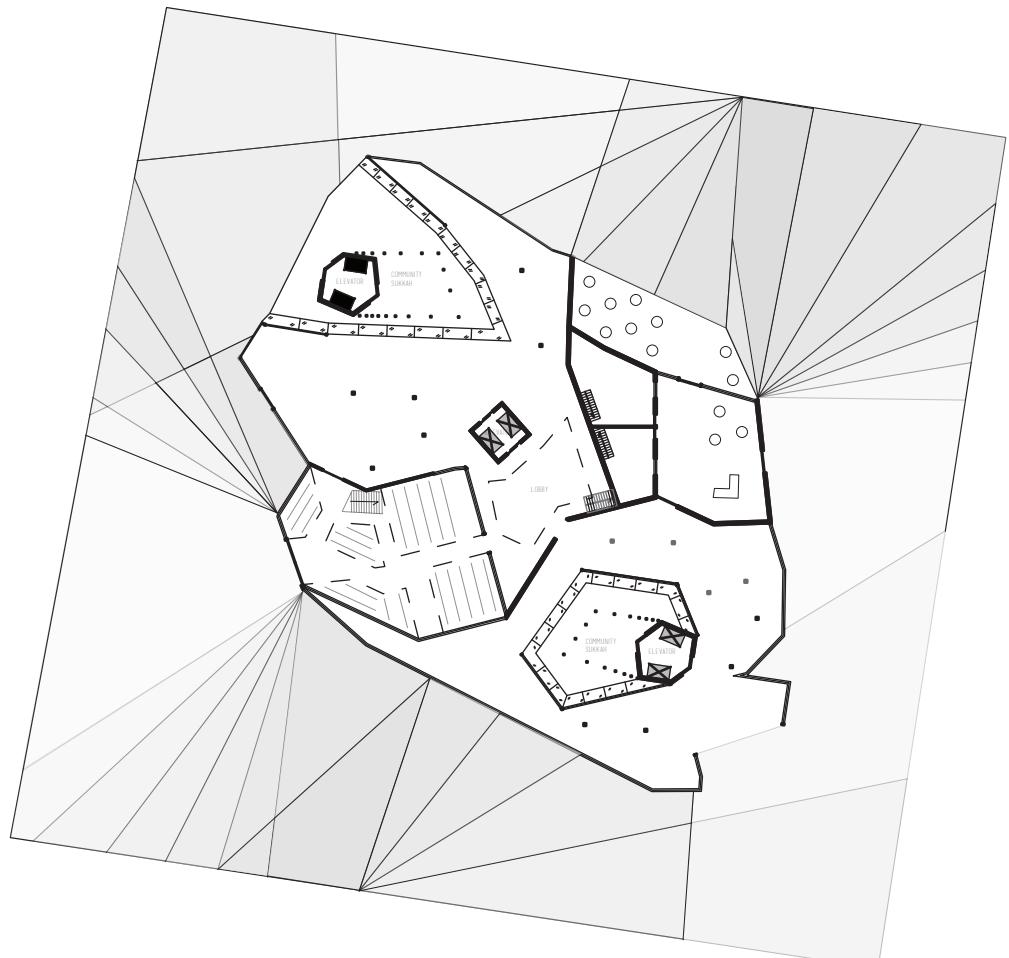
A community greenhouse brings the spirit of Troy's community gardens and farmers market to our site. With the greenhouse we are also addressing the growing time for a farmer in Troy. Due to harsh winters, the adequate farming time is limited to about 30% of the year. With this green house each seasonal crop can be grown for a longer span.

On the other side with its entrance facing beth tephilah synagogue, there is a kosher restaurant for the residents and local orthodox jews.

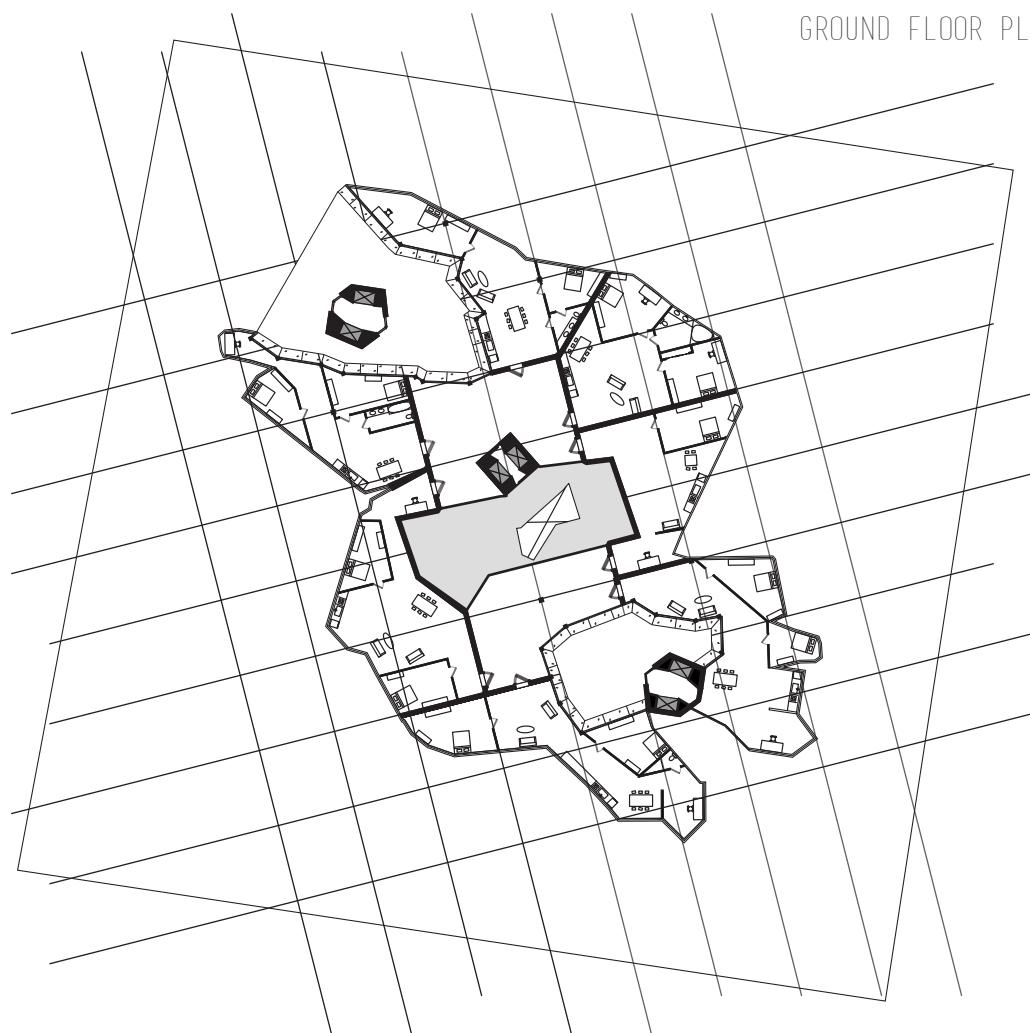
Finally there are gathering spaces designed based on the jewish holiday Sukkot. Sukkot is celebrated in mid-October and is a festival of the harvest. Each floor features a sukkah style gathering space on the floating floorplates surrounding the elevator cores. These combine the ideas of Judaism and Community Gardening into a semi-public space for neighboring families to come together.



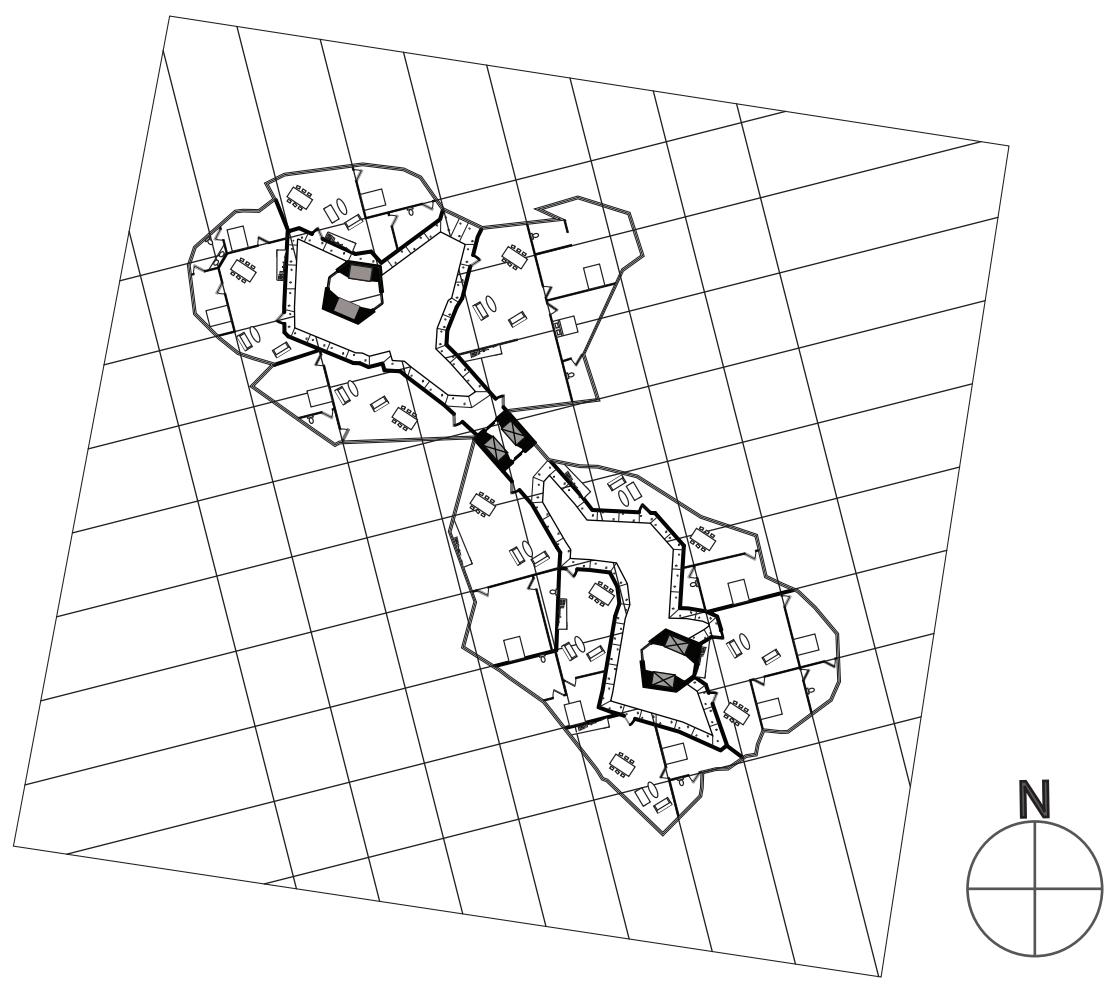




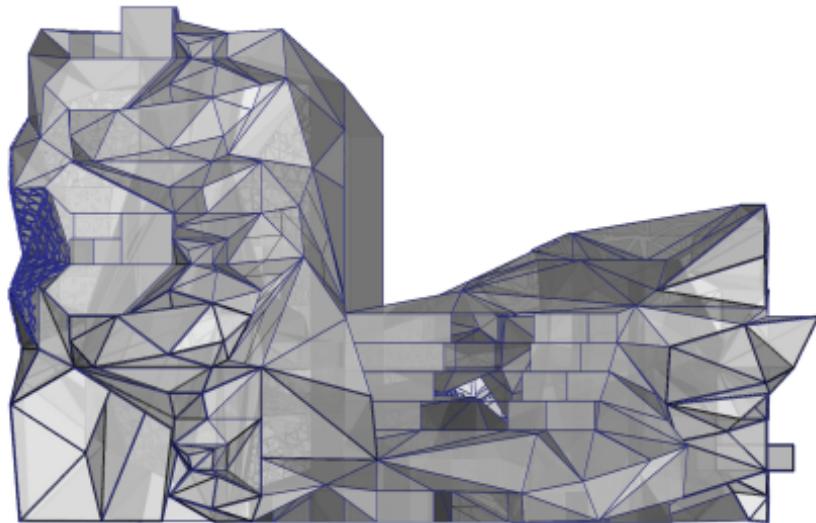
GROUND FLOOR PLAN



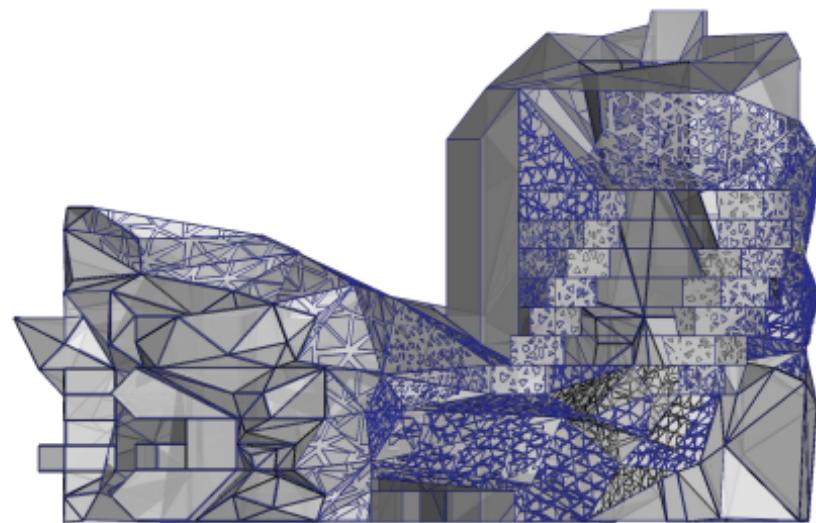
3RD FLOOR PLAN



7TH FLOOR PLAN

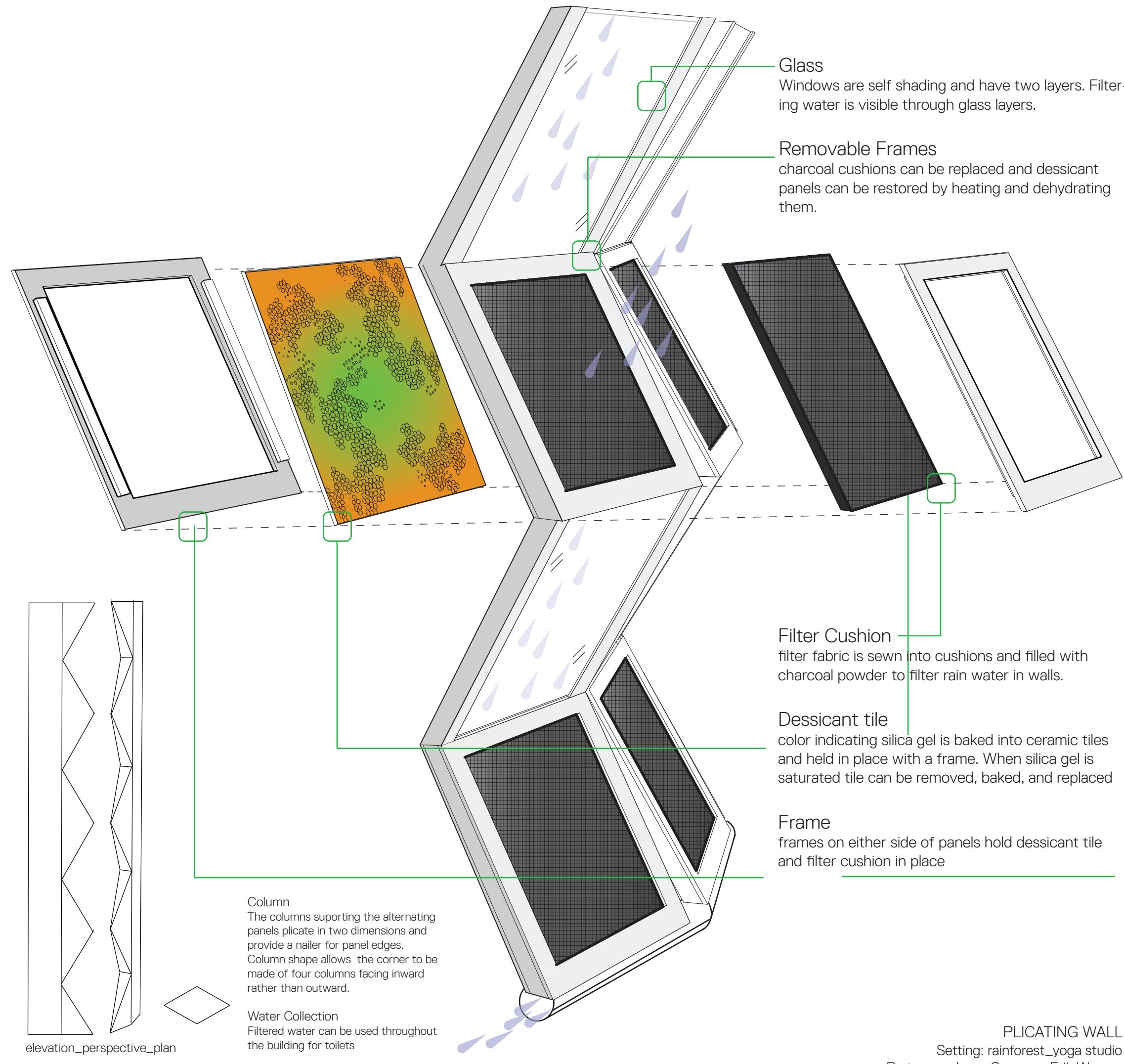


WEST ELEVATION



EAST ELEVATION

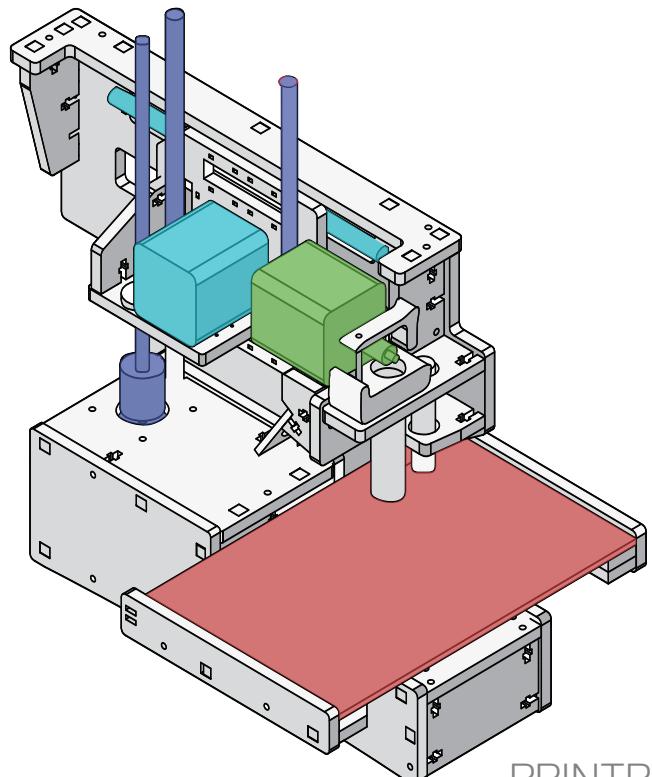




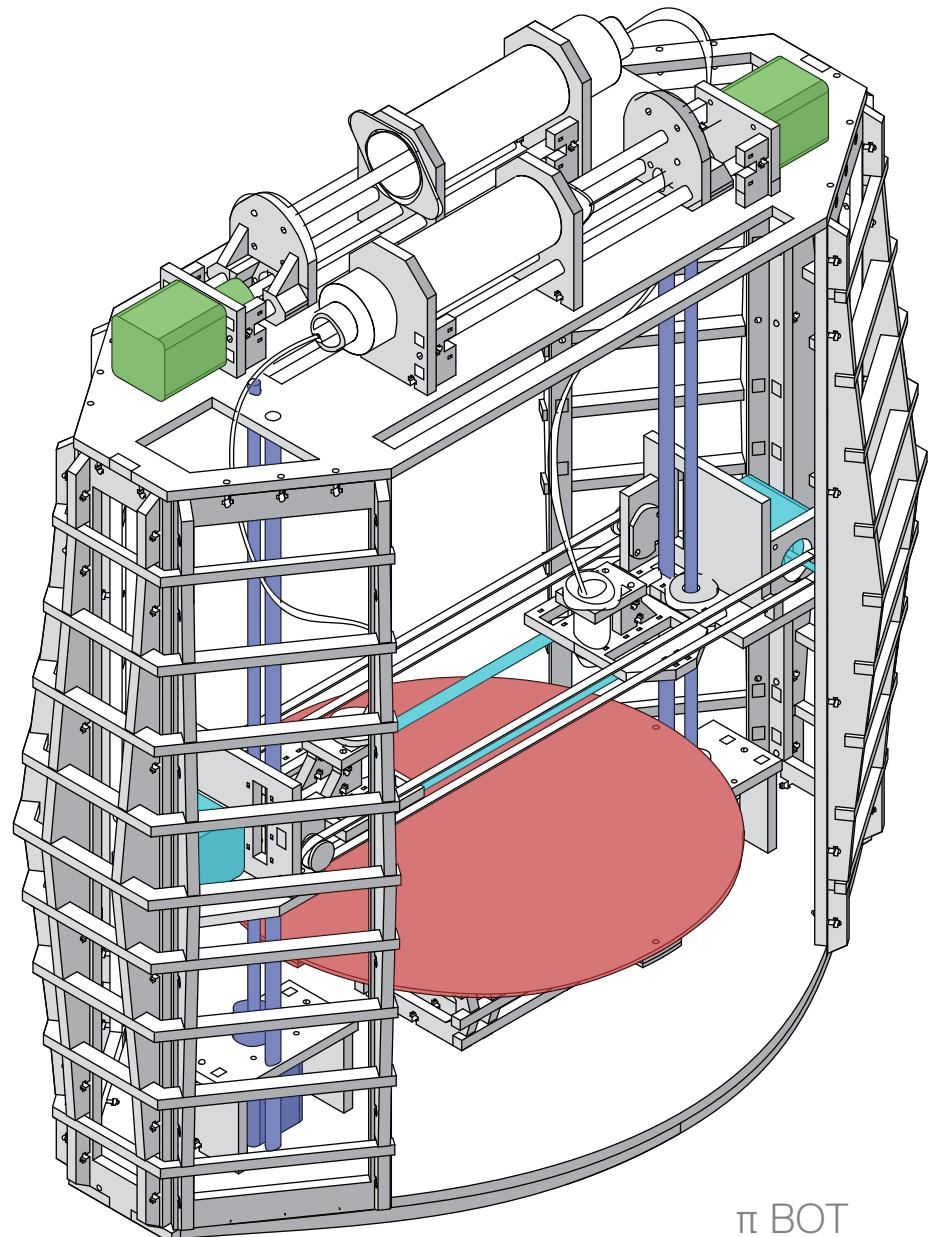
π BOT

Partners: Nick Nord, Hiroki Sawai

The Pi Bot is a paste extruding 3D printer that works on a spinning x-axis with polar coordinates. We analyzed production processes for Toyota Motors, and Toyota prefabricated housing, and comparing them to Local Motors 3D printed car **Strati**, and finally projected what the effect of 3D printing affordable housing might have on production compared to existing processes. We used the piBOT to print columns as a suggestion that 3d printing could be used to make housing elements.

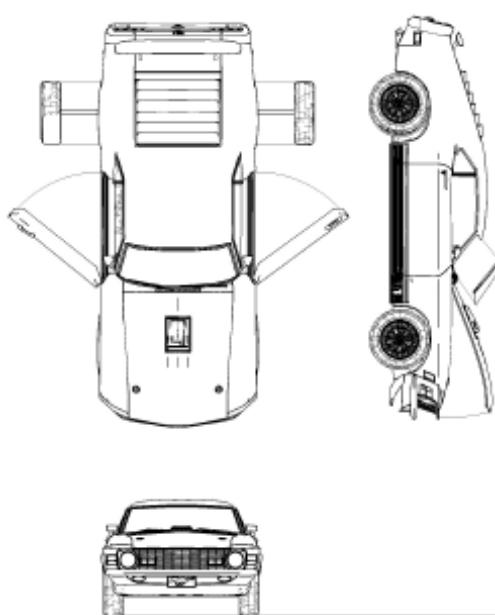


PRINTRBOT

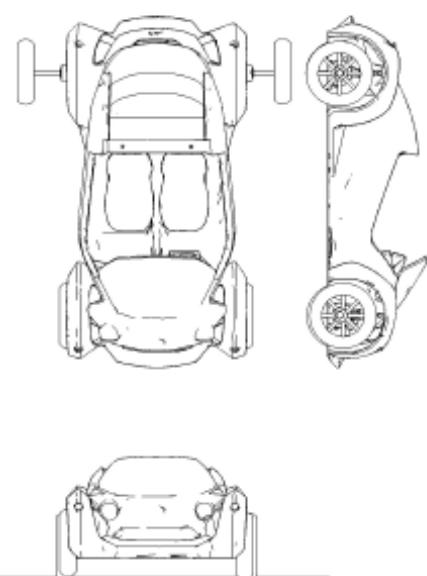


π BOT

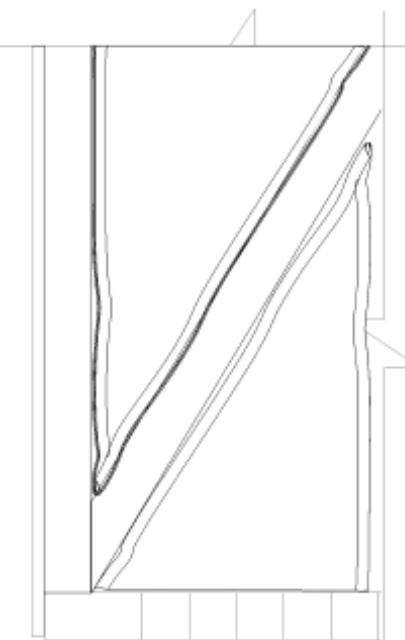
Ford Mustang Car



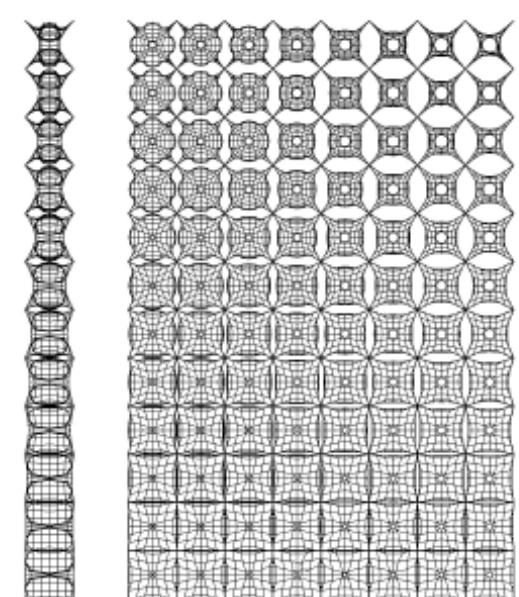
Strati 3D Printed Car



Toyota Prefabricated Wall



3D Printed Wall

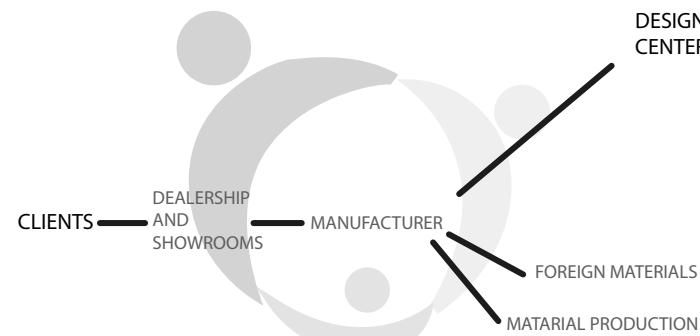


2000+ Parts in Body
iron, aluminum, plastic steel, glass, rubber, petroleum products, copper, steel

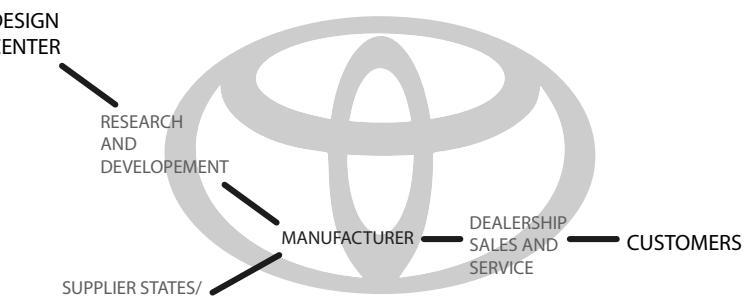
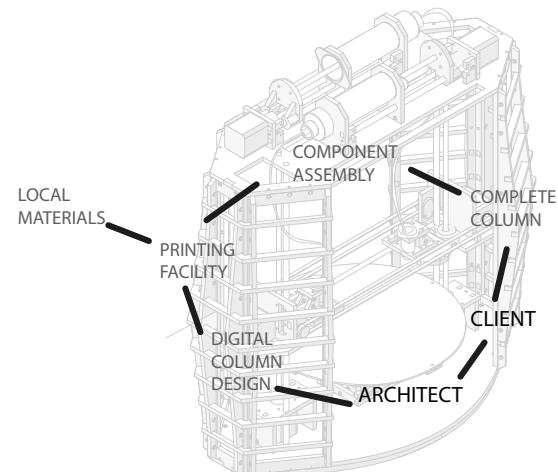
40 Parts in Body
carbon fiber reinforced ABS plastic

Traditional Prefab
welded steel frame, welded steel floor joists, rust coating, spray foam insulation exterior sheathing, interior finish

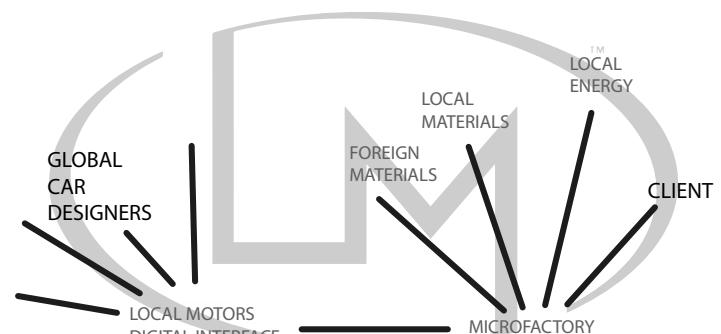
Printed Prefab
extruded concrete



TOYOTA HOME



TOYOTA



LOCAL MOTORS™

