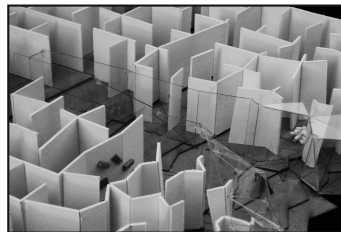
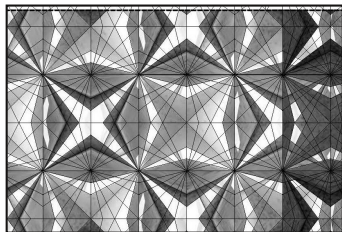
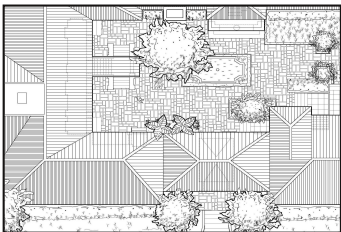
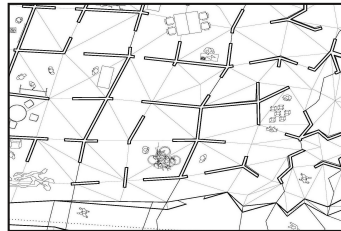
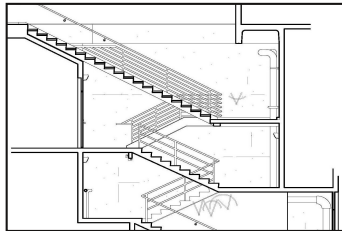
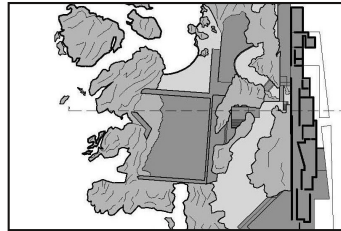


**ARCH 202a**



FALL 2010

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# **01: THE ROSEWOOD**



PRECEDENT FROM FILM



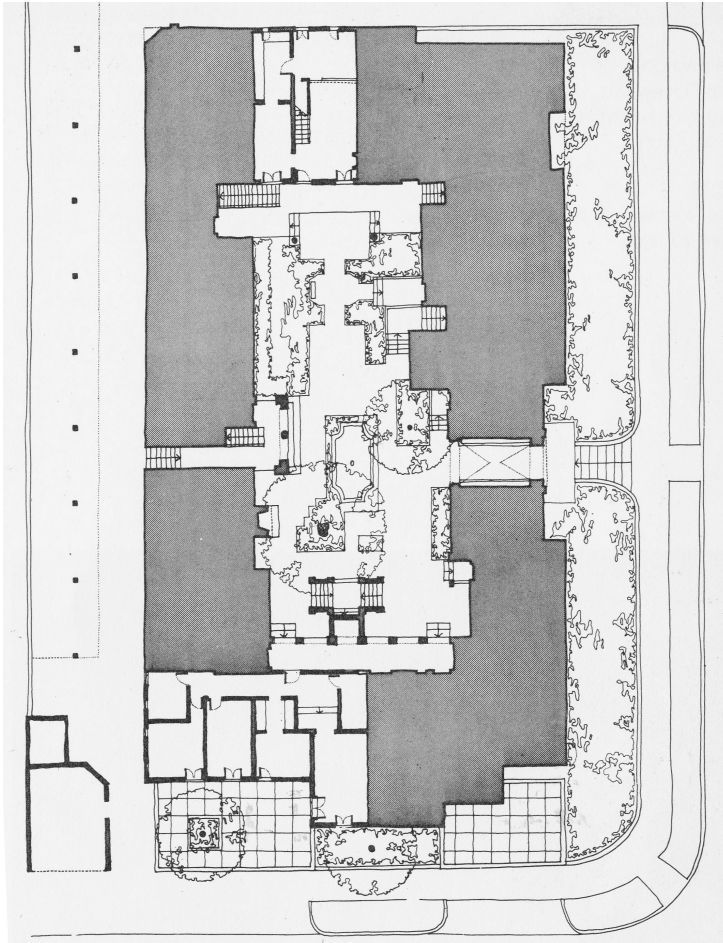
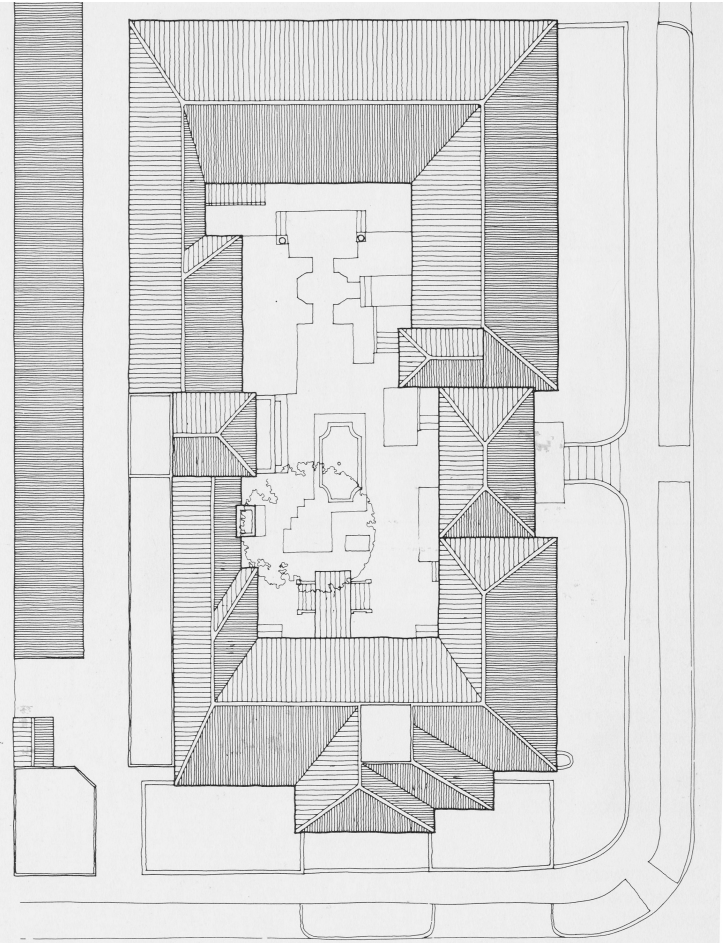
This first project focused on analysis and graphic representation of the Rosewood, a Spanish revival style courtyard apartment building featured in the film *Mulholland Drive*. Study of the building began with a visit to the site, where the exterior and interior courtyard were documented with photographs and sketches, and compared to relevant frames from the film. Most significantly, it was found that the building possessed a strong connection to the gardens in and around it, and that the plants and vegetation seemed as much part of the structure as did the stucco and Spanish tile. It was important to communicate this atmosphere in the set of drawings that were created. A comprehensive site plan, section, and series of diagrams were created to represent the building and its points of emphasis. After several rounds of revision, and refining an original style of representation for vegetation and textures in line weight and type, the drawings became very illustrative, possessing a depth and richness that emphasizes the Rosewood's harmony between structure and vegetation, as well as its centrality and organization around the courtyard.

Left: Photo documentation of Watt fire stair.



Above: 360 degree panorama within courtyard.

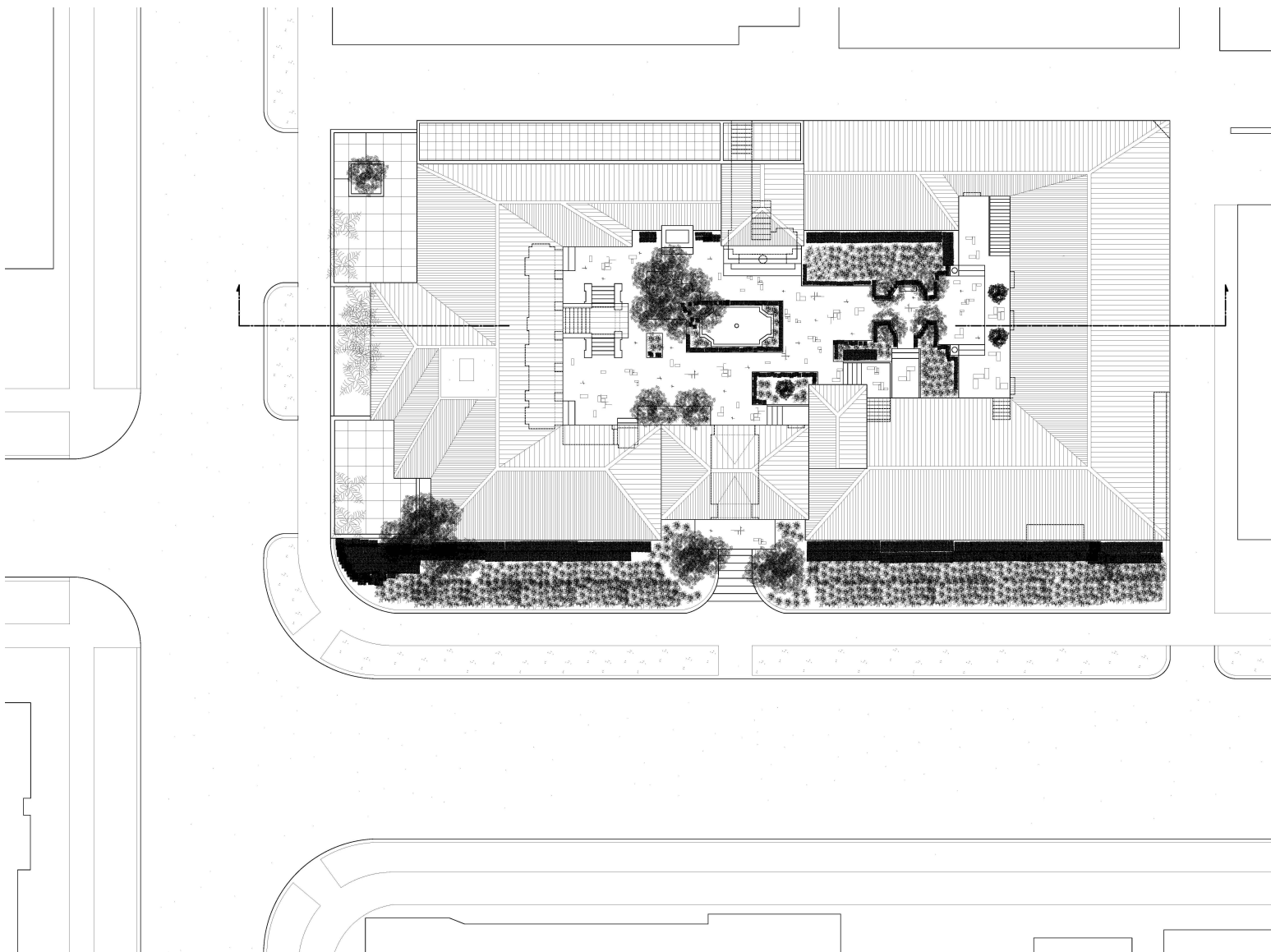




Left: Plans from reference text.

Right page: Selected frames from film.

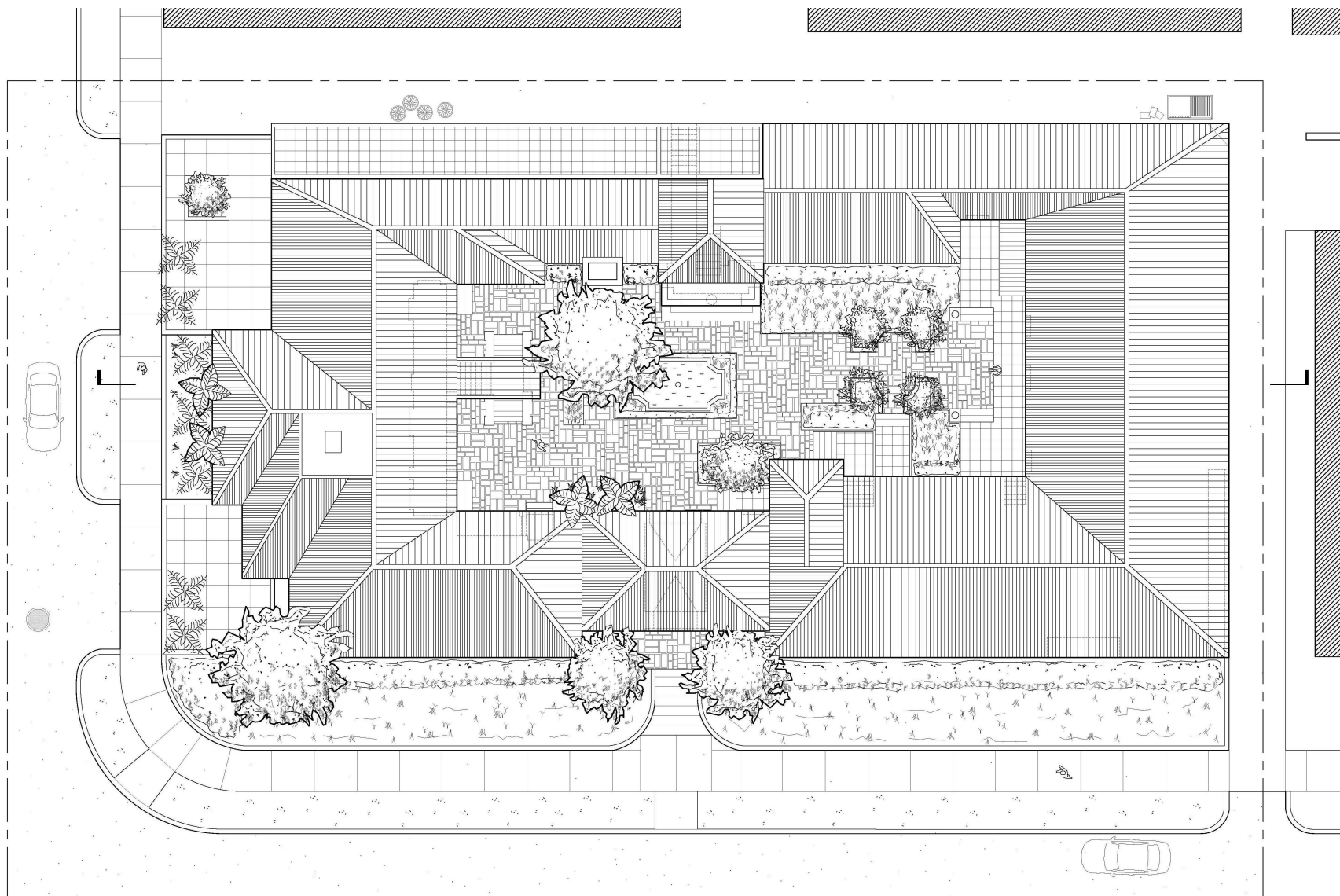




Left: Preliminary roof plan.

Right page: Preliminary site section.

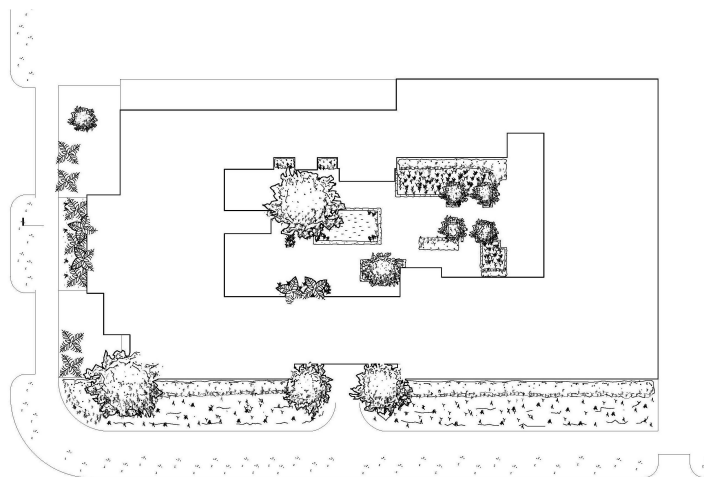
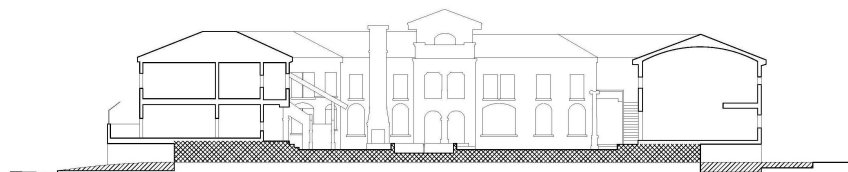
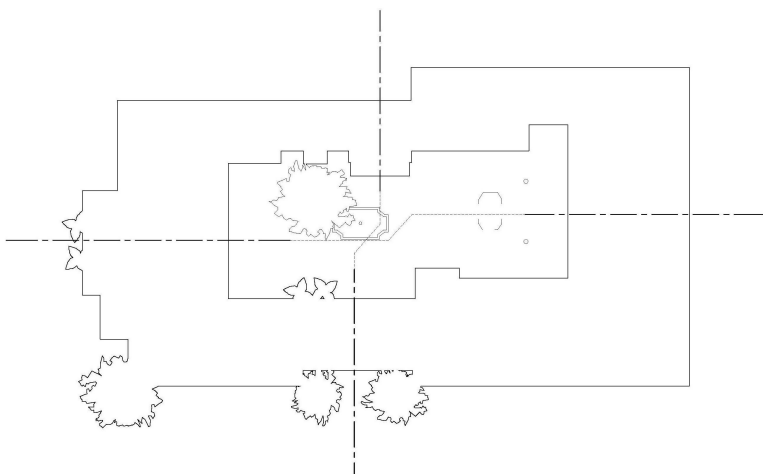
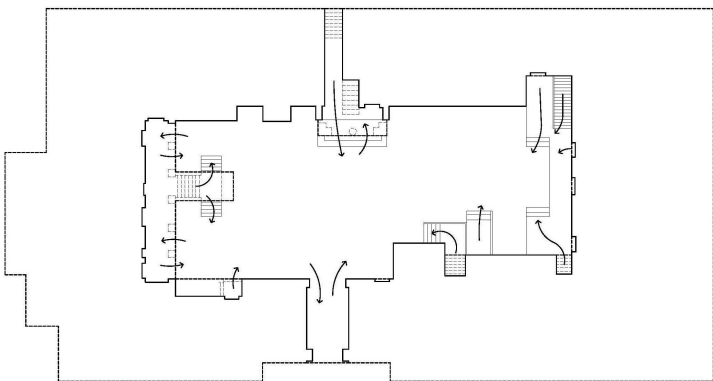




Left: Final roof plan.

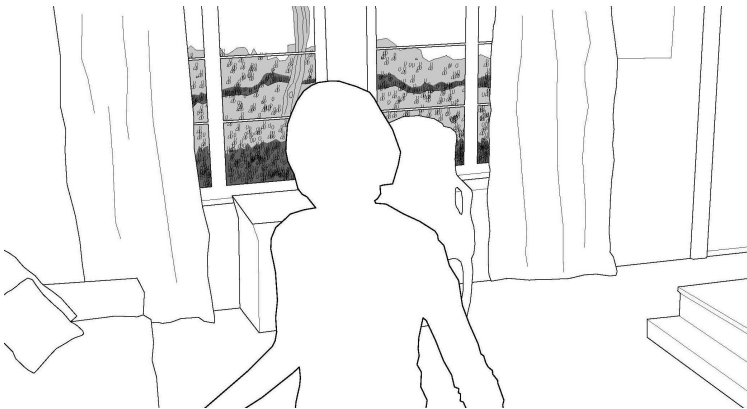
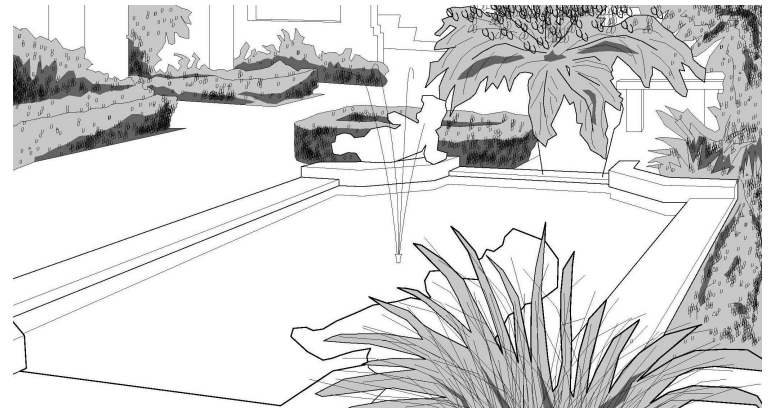
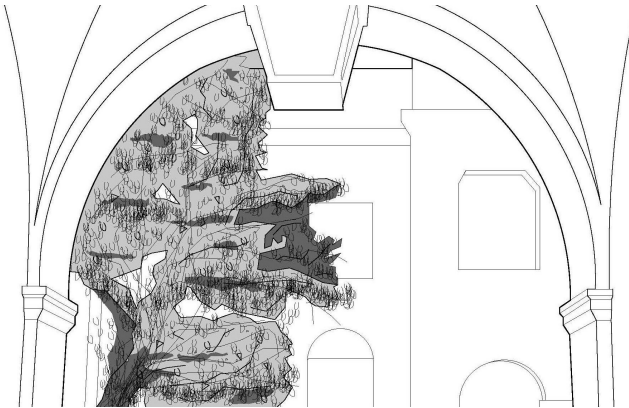
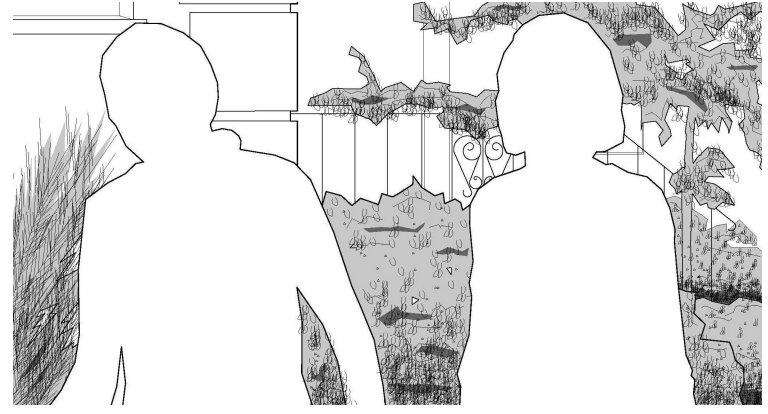
Right page: Final site section.



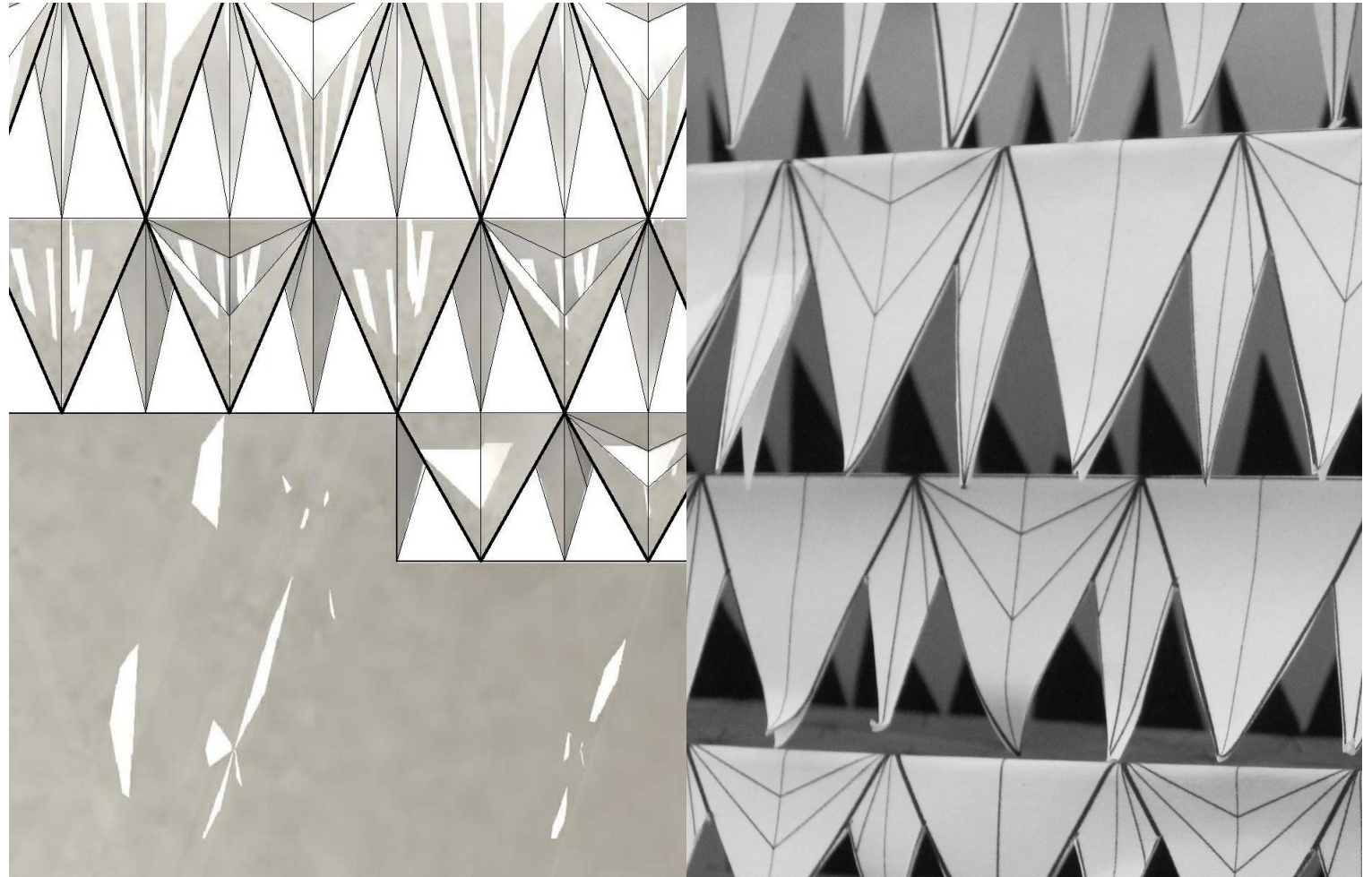


Clockwise from top left: Diagrams showing circulation, cut and fill, vegetation, and axes.

Right page: Drawings of film stills.



## **02: PHOTON GRADIENT SKYLIGHT**

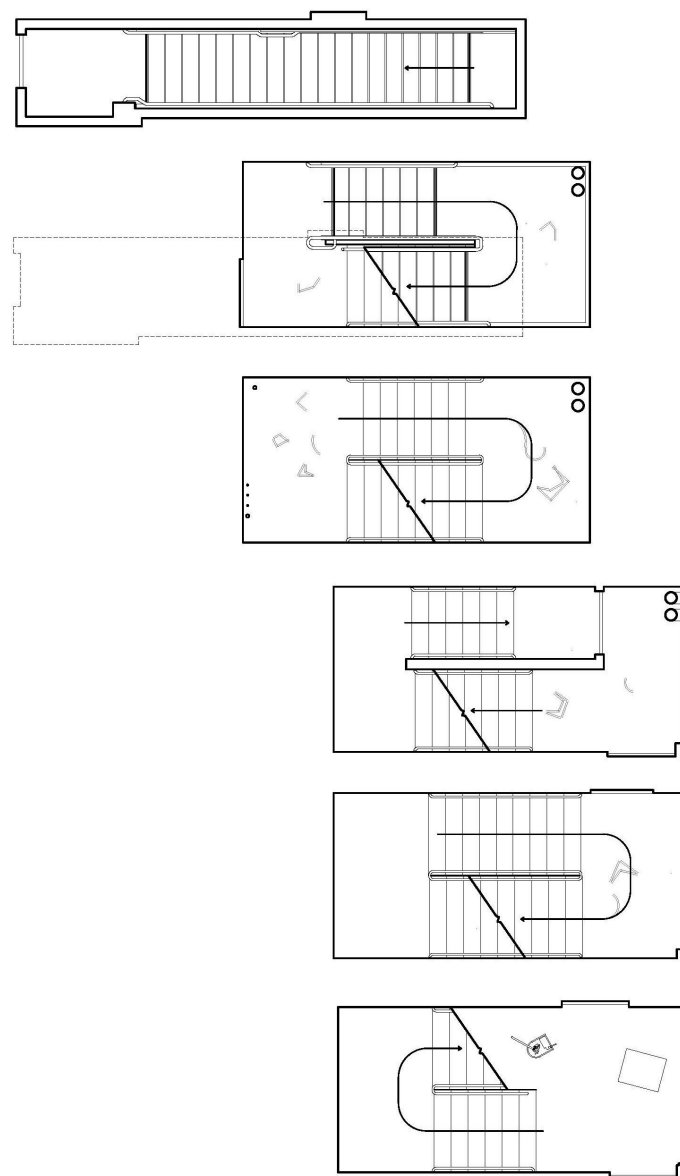
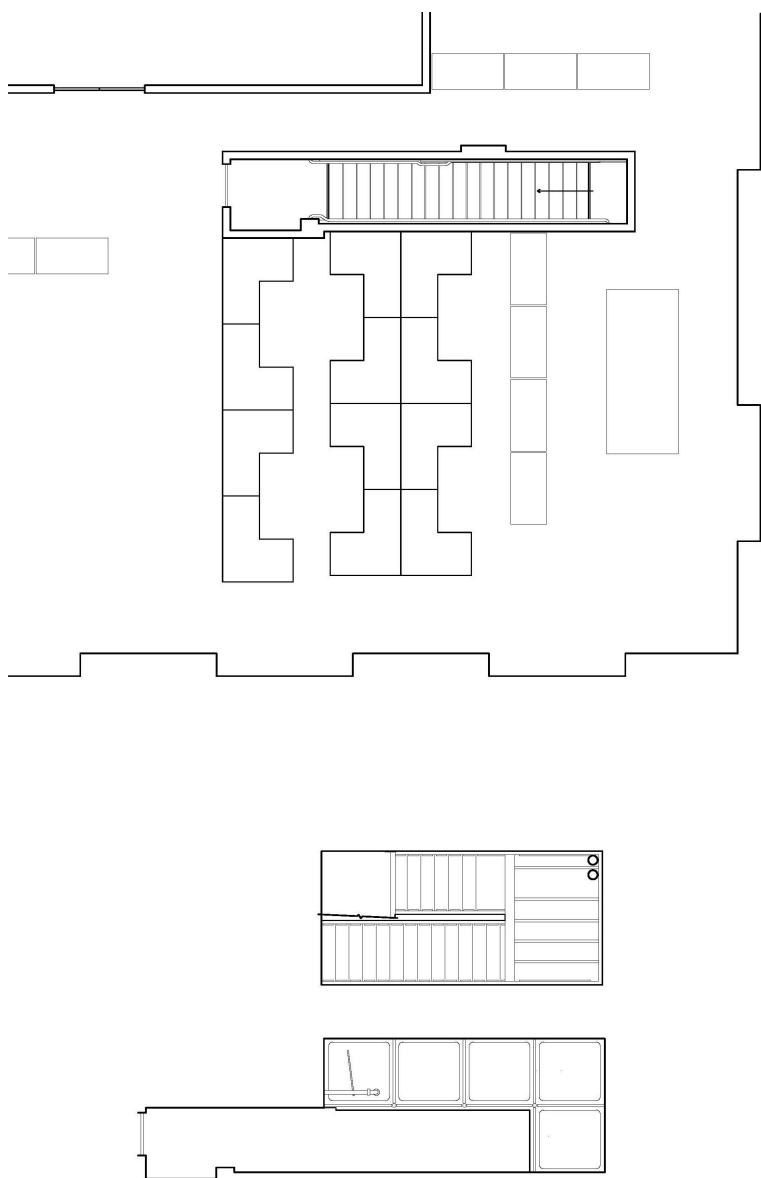


FROM 3D TO 2D AND BACK AGAIN



The second project involved the study of the existing West fire stair in Watt Hall in order to design a skylight for the space that was thoughtful of its context. After photo documenting and measuring the stairwell, a complete set of as-built drawings and diagrams were produced to represent a comprehensive understanding of the existing conditions. Next, an operative method for formation of the skylight was created by experimentation with various surface folding techniques and Origami patterning. The new three dimensional form was aggregated into a tessellated system to create a skylight that did not change, but amplified the existing conditions of the stairwell by creating a gradient of light that intensifies the higher one climbs, and darkens the more one descends in the stairwell. The final design acts as a regulating sieve, improving the experiential quality of the entire site area by filtering natural light into the stairwell during the day, and refracting artificial light from the stairwell into the surrounding studios during the night.

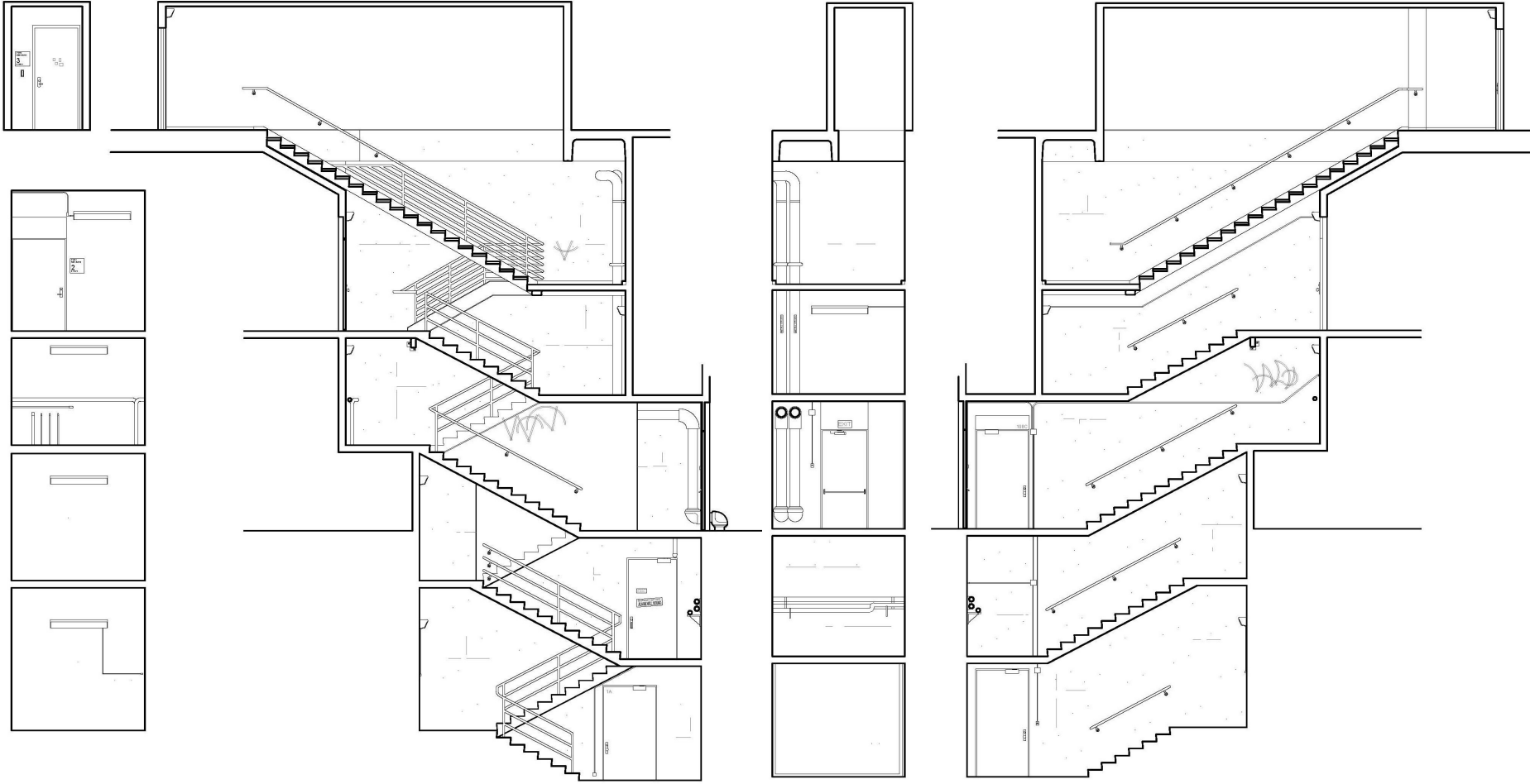
Left: Photo documentation of Watt fire stair.

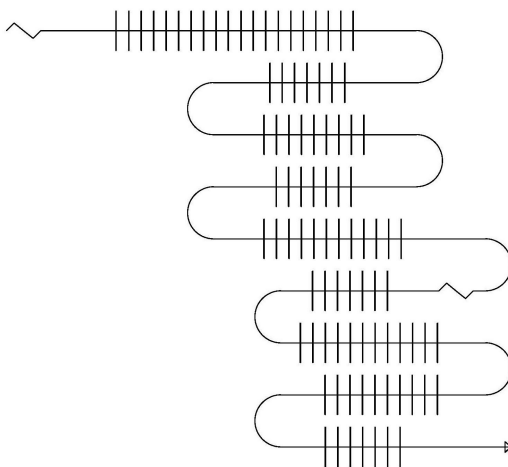
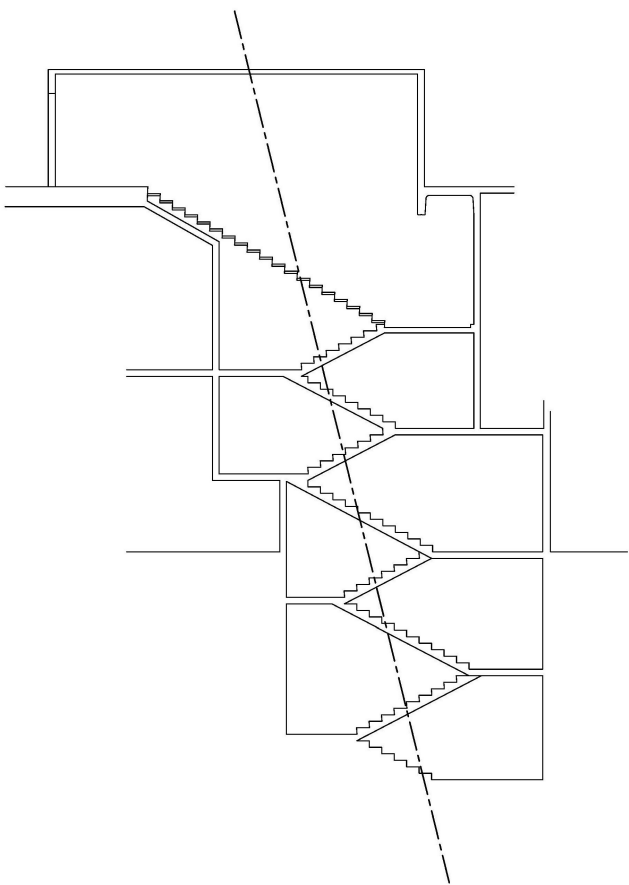
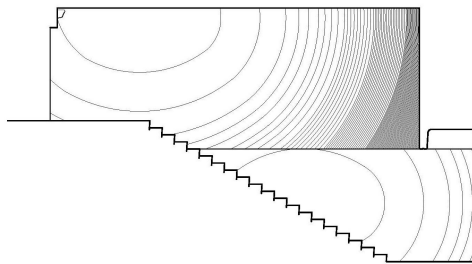
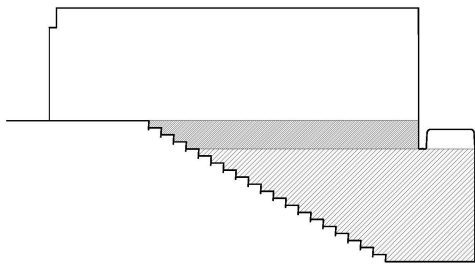


Top left: As-built site plan; Bottom left: As-built reflected ceiling plans.

Above: As-built floor plans for each level/landing.

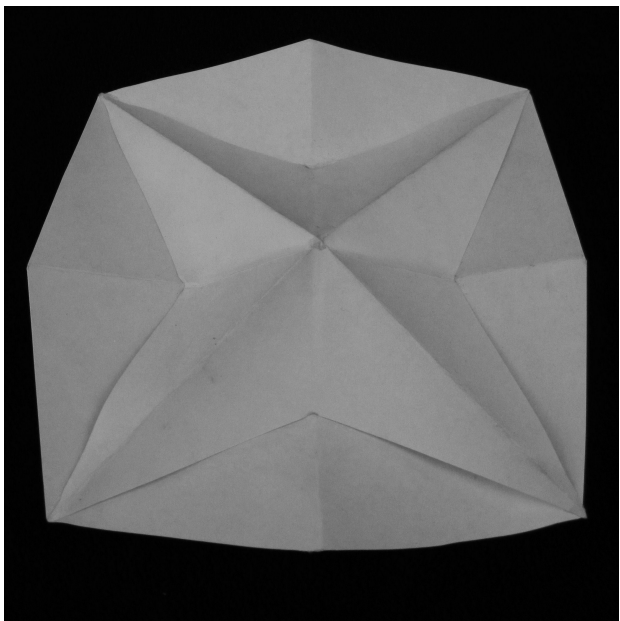
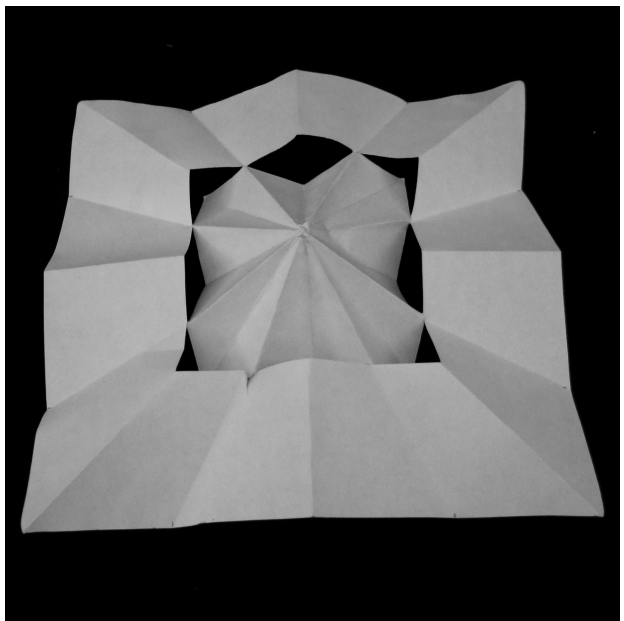
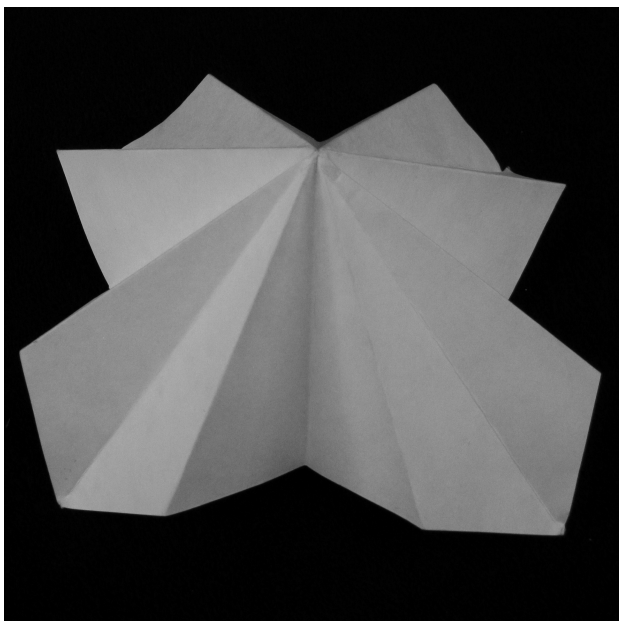
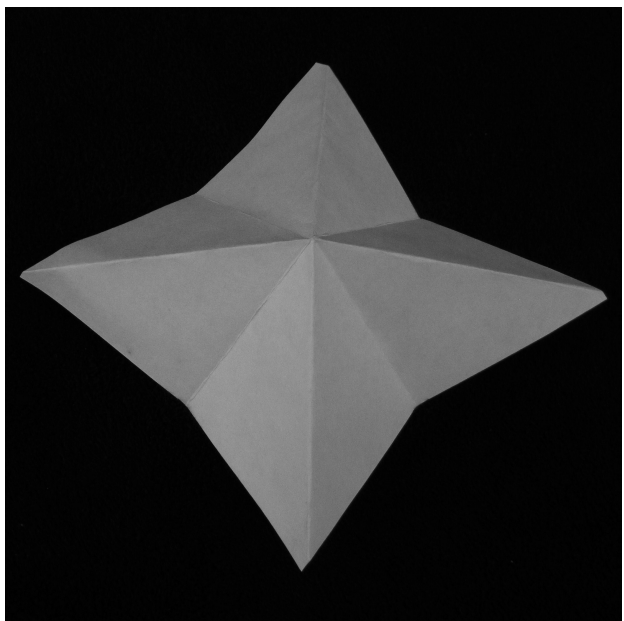
Right page: As-built elevations and sections.

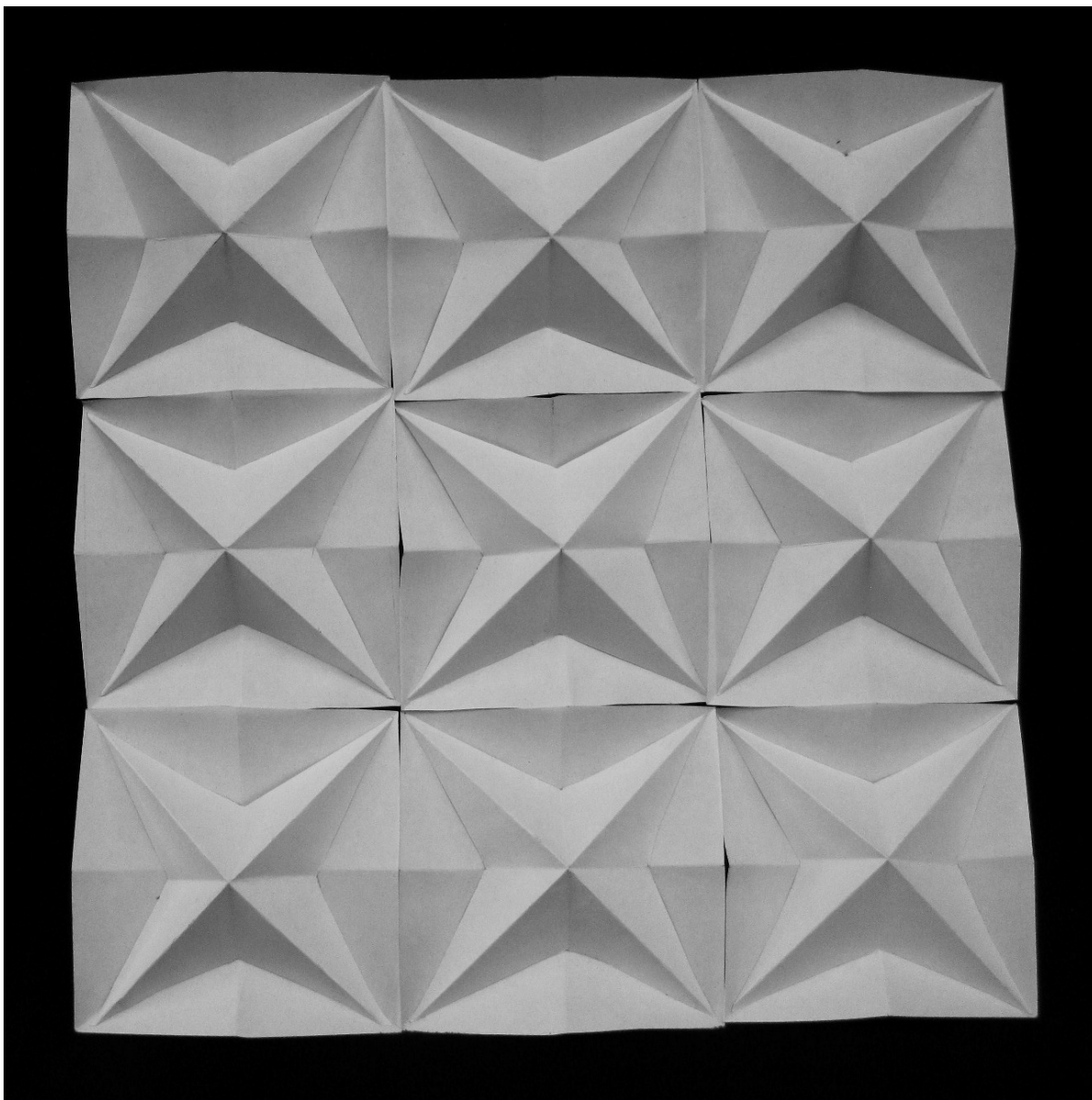




Clockwise from upper left: Diagrams representing materiality, light density, rhythm, and axis.

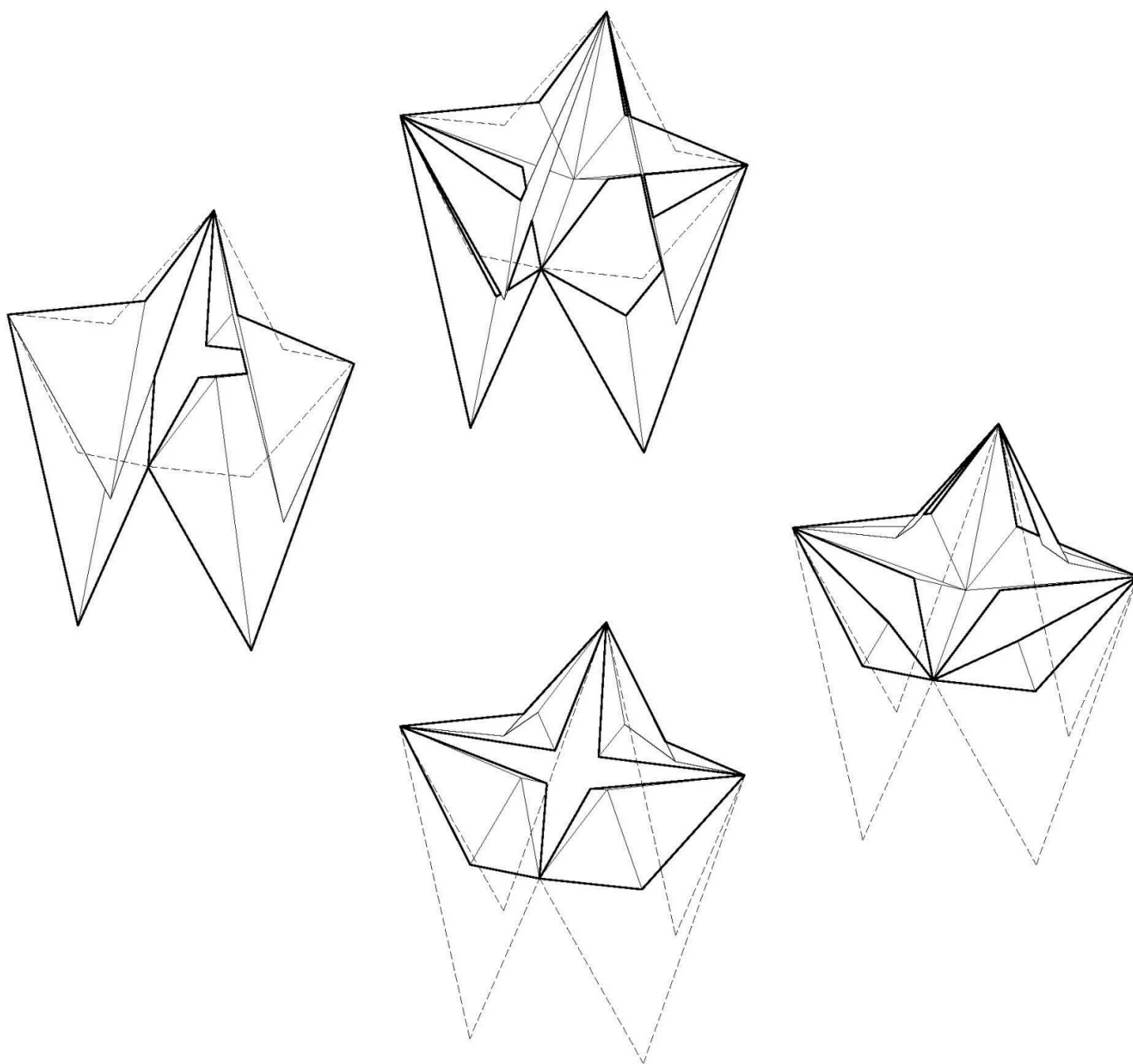
Right page: Various experimental origami units.

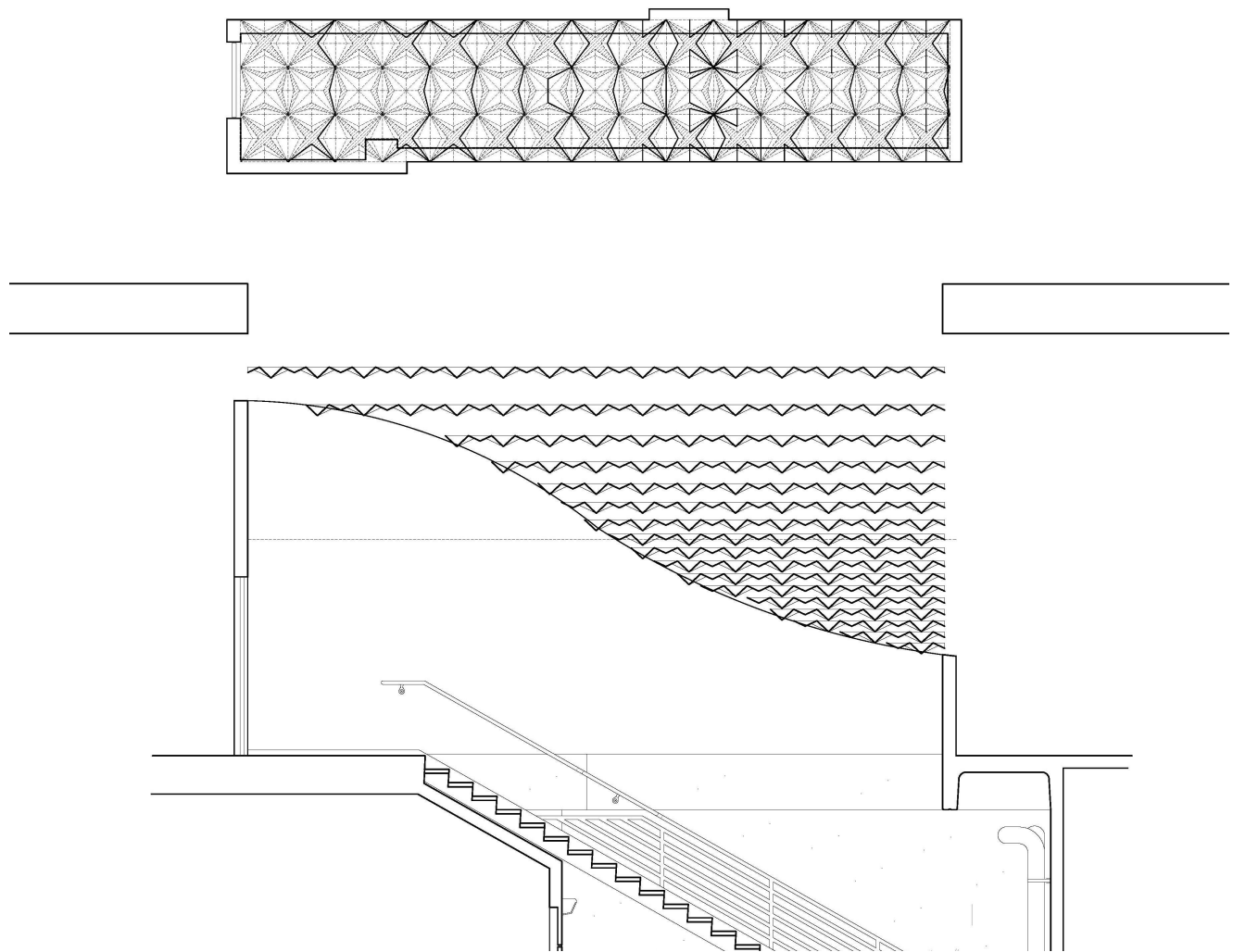




Left: Aggregation of final tessellation unit.

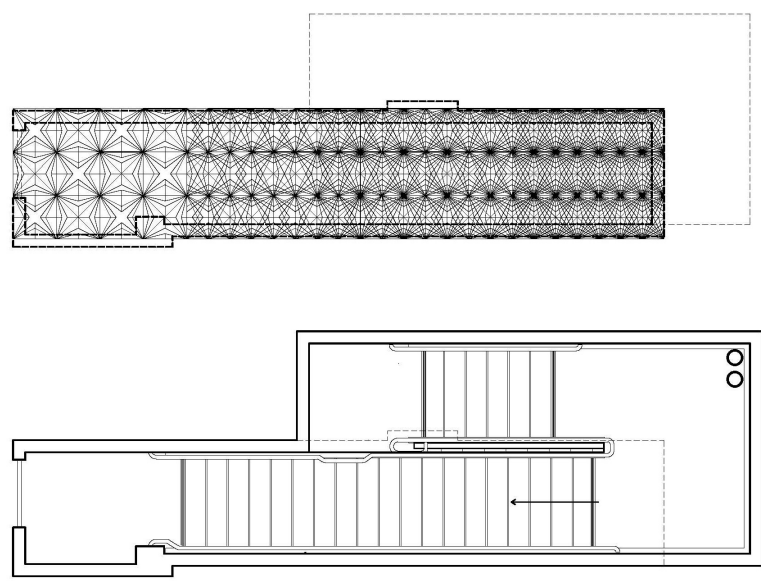
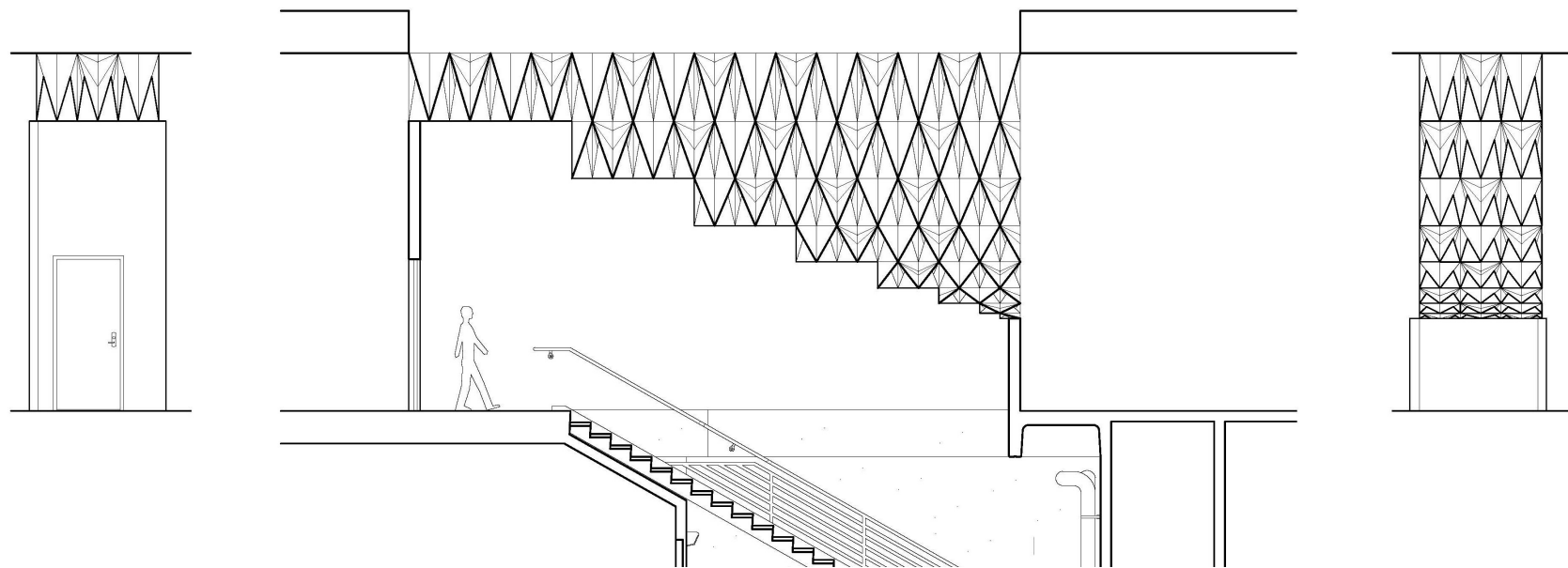
Right page: Diagram showing alternate geometry and scaling of final unit.

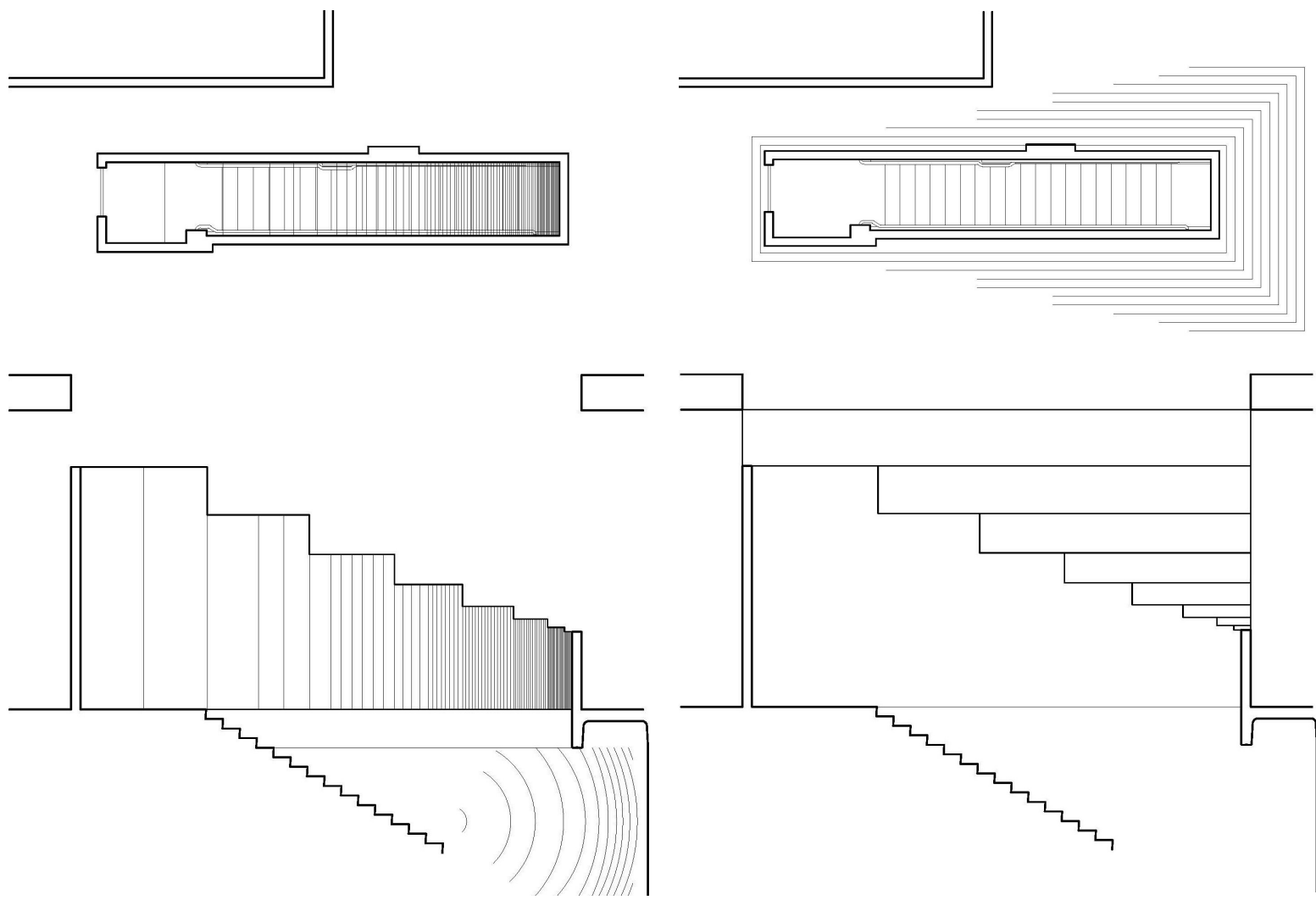




Left: Preliminary parti of skylight in stairwell, ceiling plan and section.

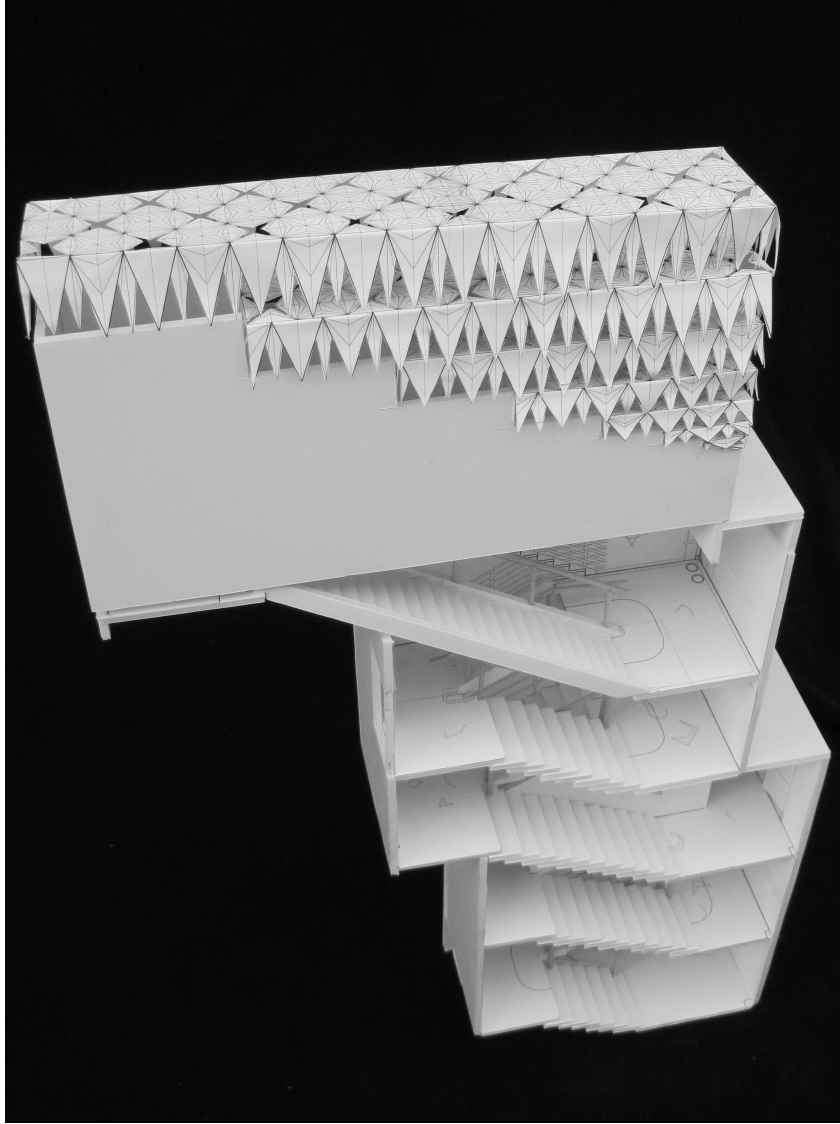
Right page: Final section, plan, and ceiling plan.

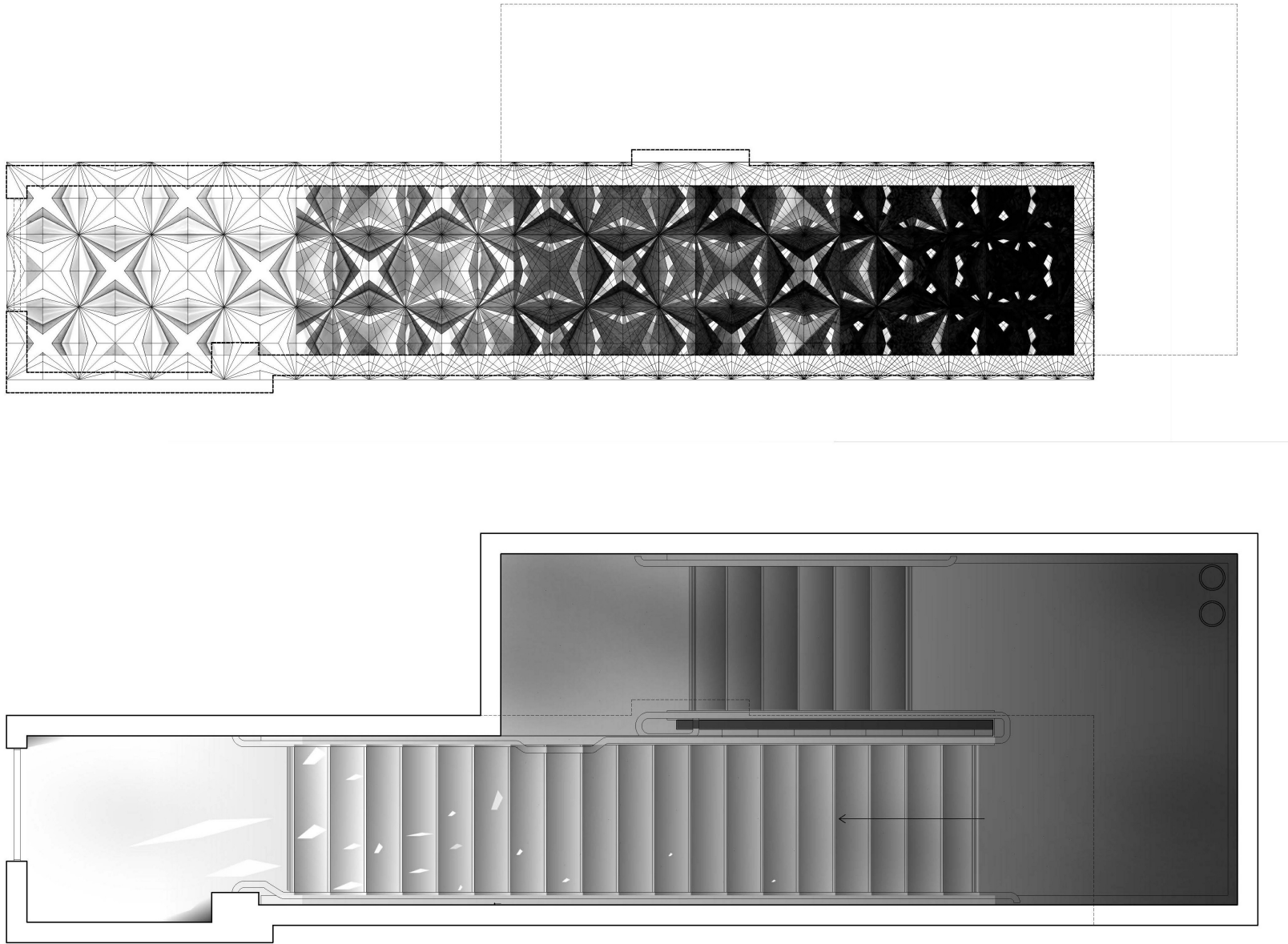




Far left: Diagrams representing light density.  
Near left: Top plan - Artificial light radiation, Bottom section - Scale shift.

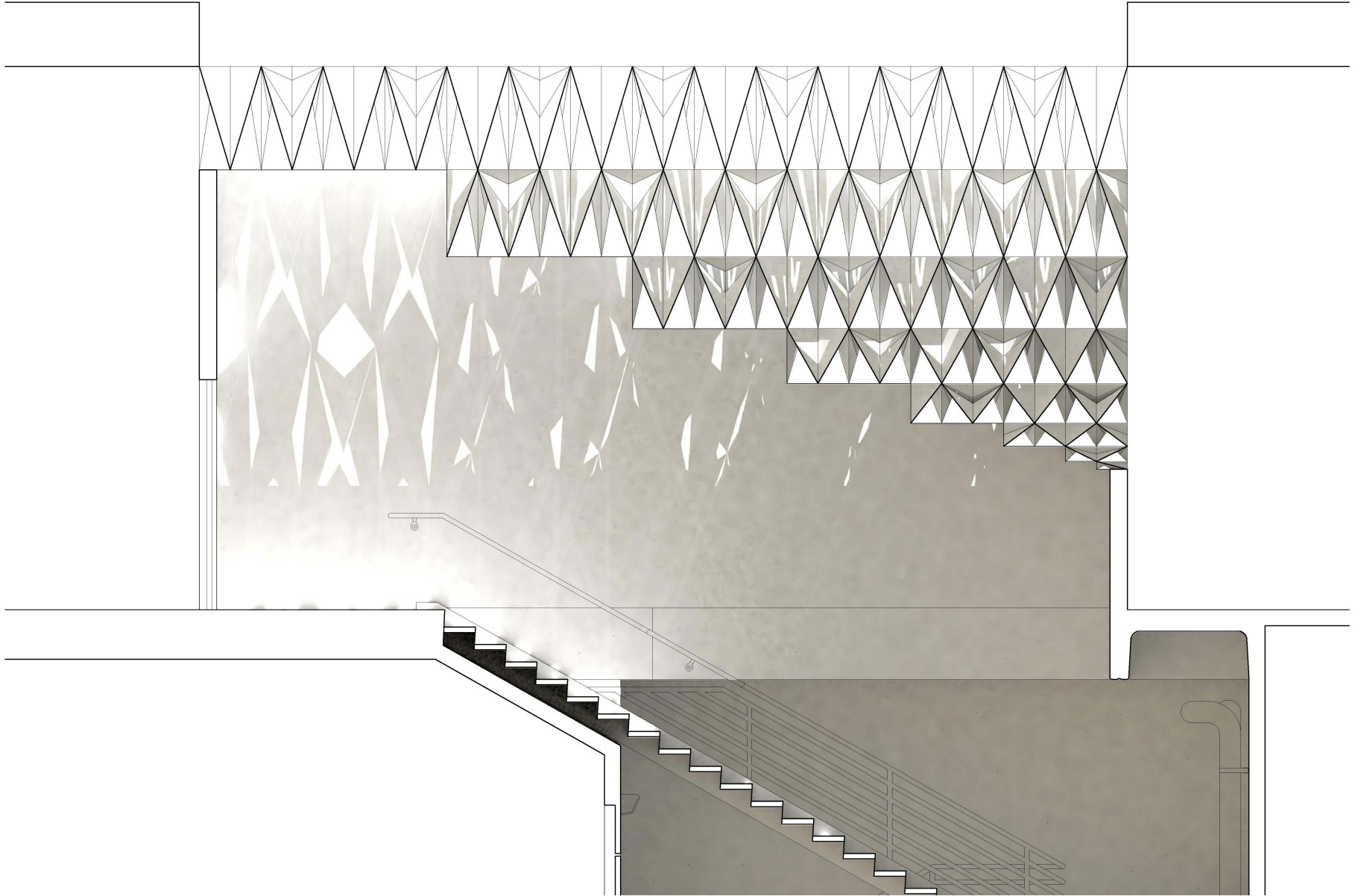
Right page: Final model.



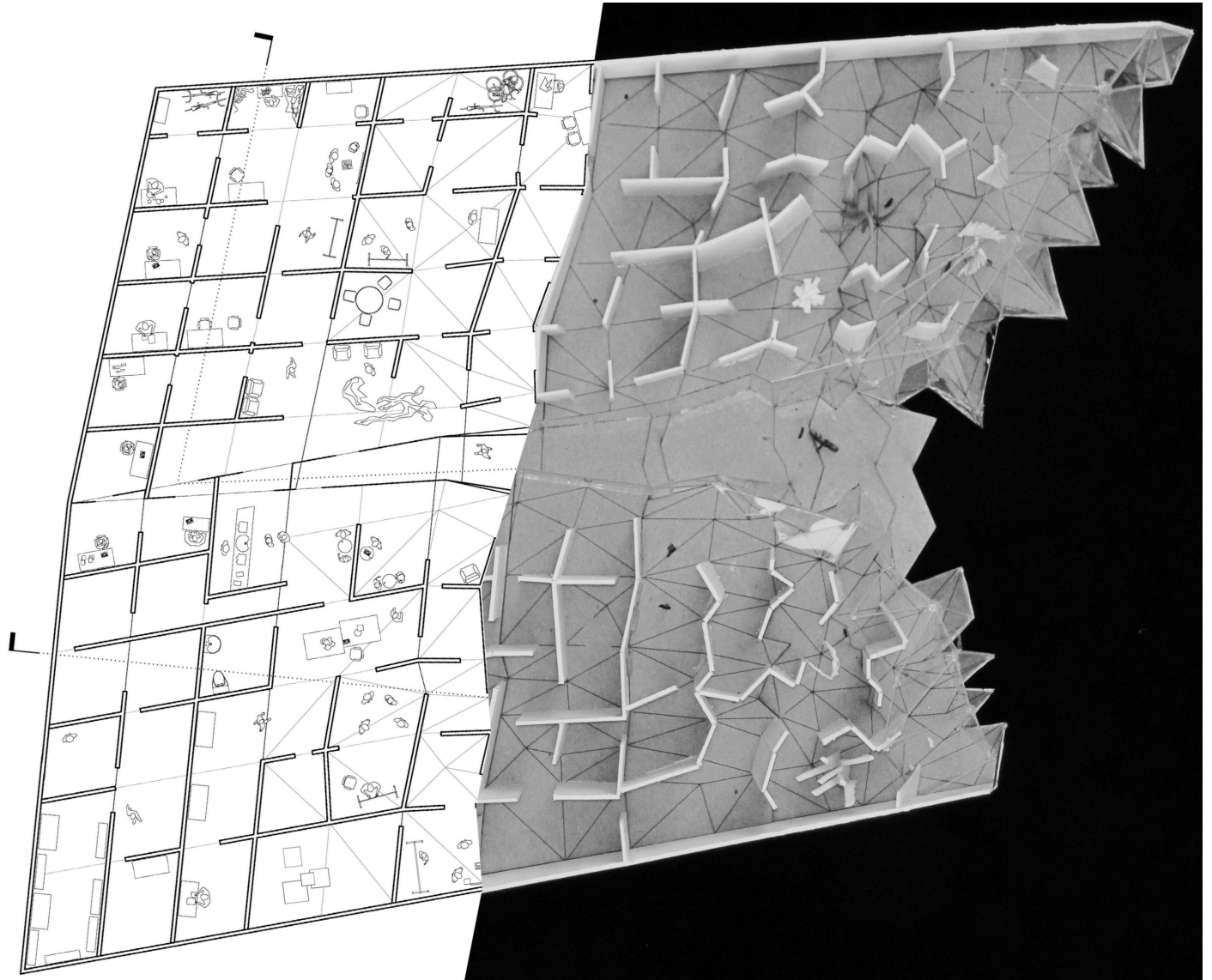


Above: Final rendered plan and reflected ceiling plan.

Right page: Final rendered section.



## **03: SLANGUAGE STUDIO**



SILVERLAKE ART CENTER



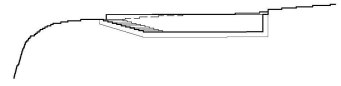
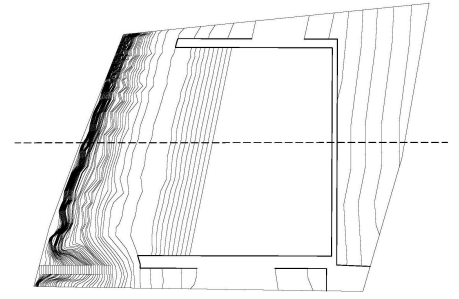
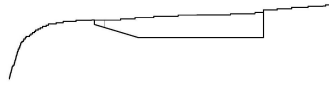
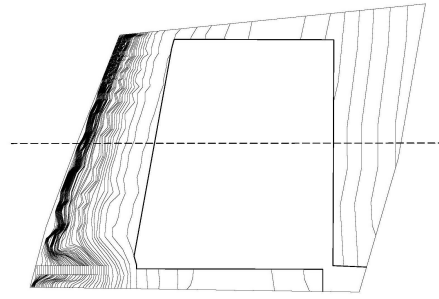
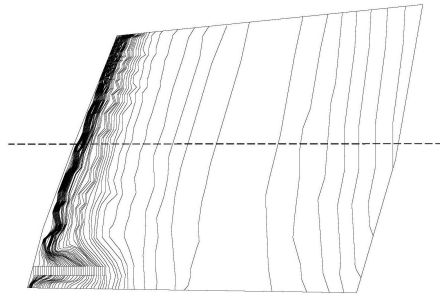
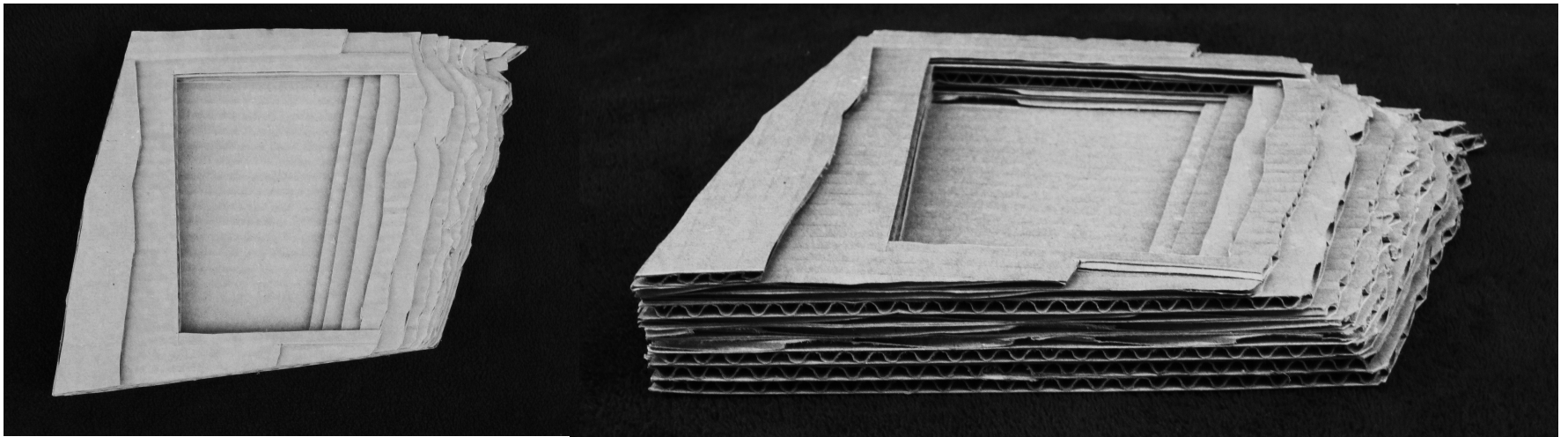
The final project involved considering many aspects of site, program, client requirements, and environment to create a coherent statement in both form and function. After visiting the site on Sunset Boulevard, a detailed topographical site model was constructed using public works data, photos, and measurements. A precedent, the Leca Tidal Pools by Alvaro Siza, was assigned, and a set of drawings outlining its construction process and use of terracing were produced. Using this operation, design of the art center began. As the design process continued, the method of formal operation evolved in many directions, from minimal intrusion into the existing landscape, to completely replacing it. The final evolution of the design process resulted in the total unification of form and function. Spatial divisions are generated by a morphing grid system that decreases in regularity and increases in intensity of its permutation as it nears the streetfront. The more organized divisions in the rear of the building allow for desks, offices, and studios to be arranged neatly, while the jagged, irregular spaces up front encourage exhibition, exploration, and exemplify the avant-garde nature of Slanguage's work, demonstrating a direct connection between spatial form and programmatic function, and stating strongly the symbiotic relationship in art between order and chaos.

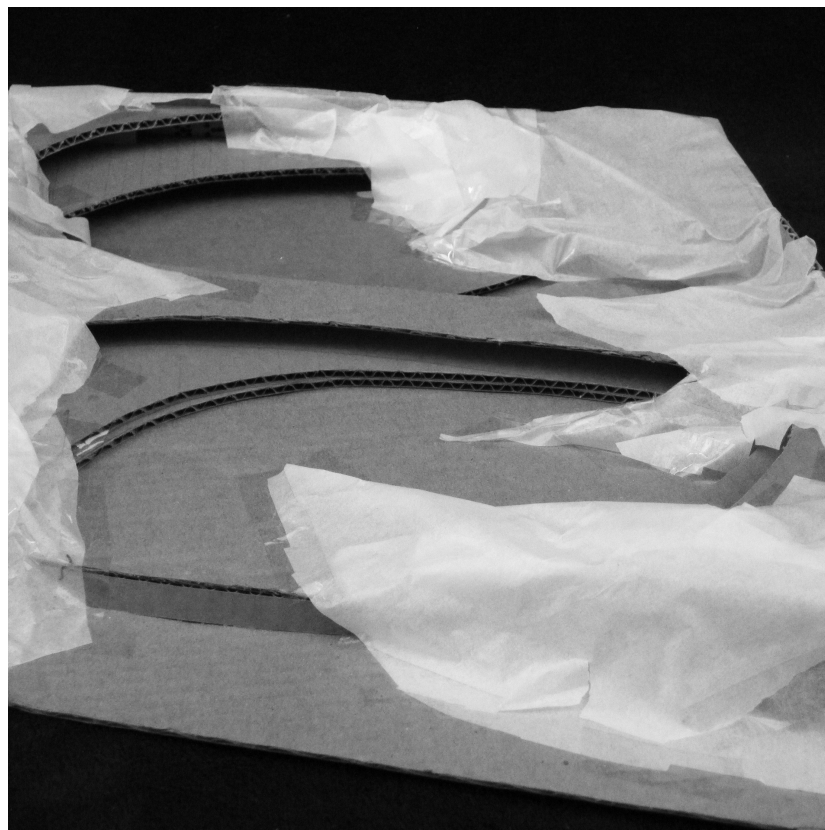
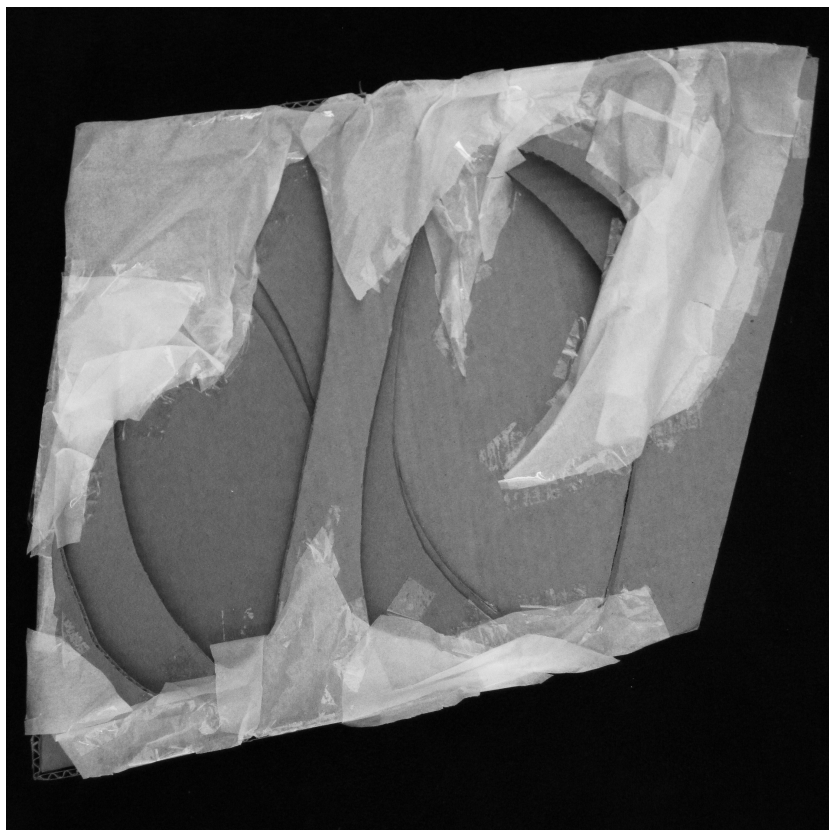
Left: Photo documentation of existing site in Silverlake.



Above: Leca Tidal Pool precedent diagrams showing site, excavation, and construction.

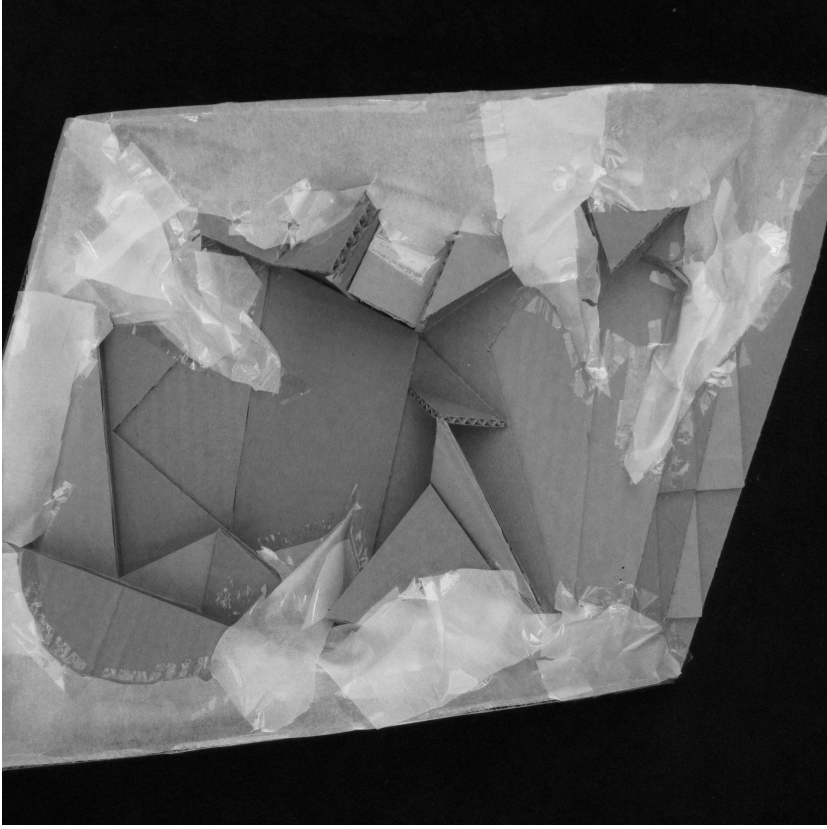
Upper right: Precedent superimposed onto site in Silverlake.  
Lower right: Model of precedent excavated into site in Silverlake.





Above: Preliminary parti model for Slanguage with curvilinear terracing.

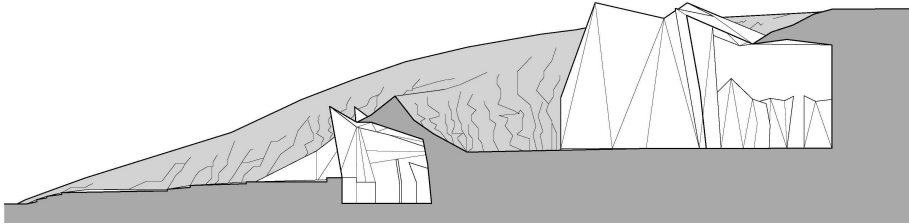
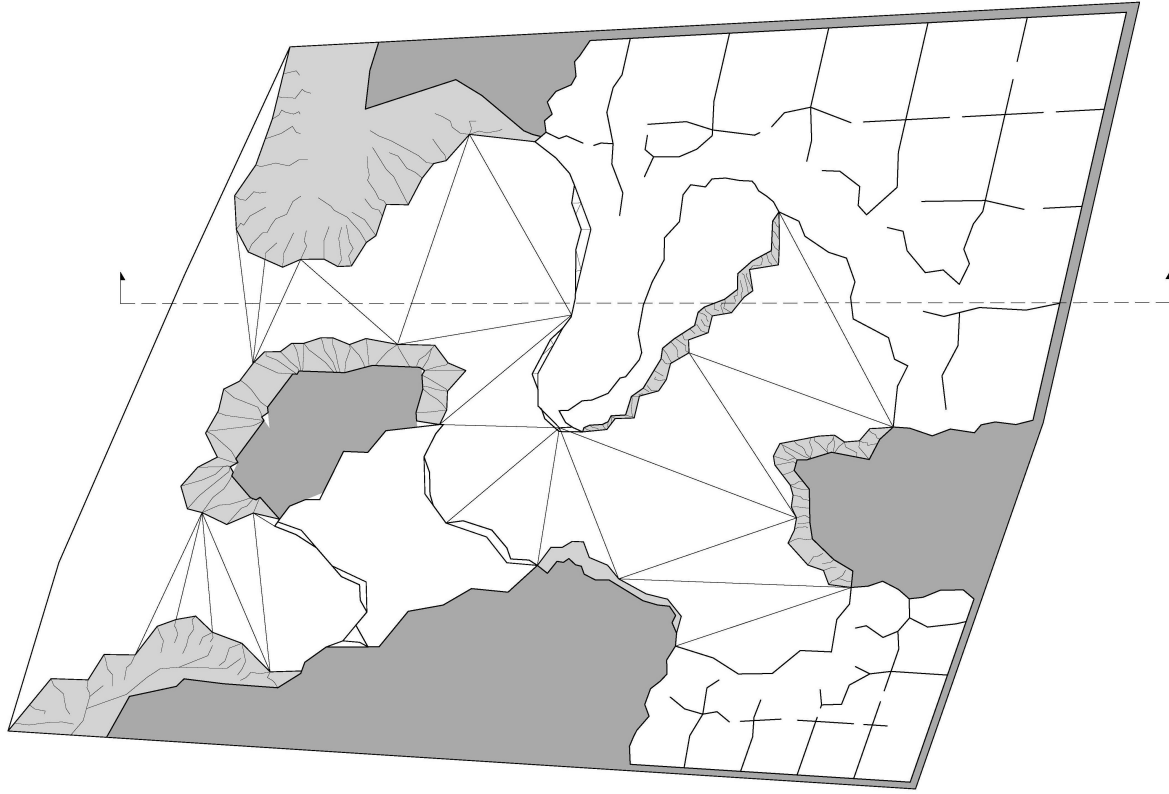
Right page: Revised parti with angular terracing and jagged forms.

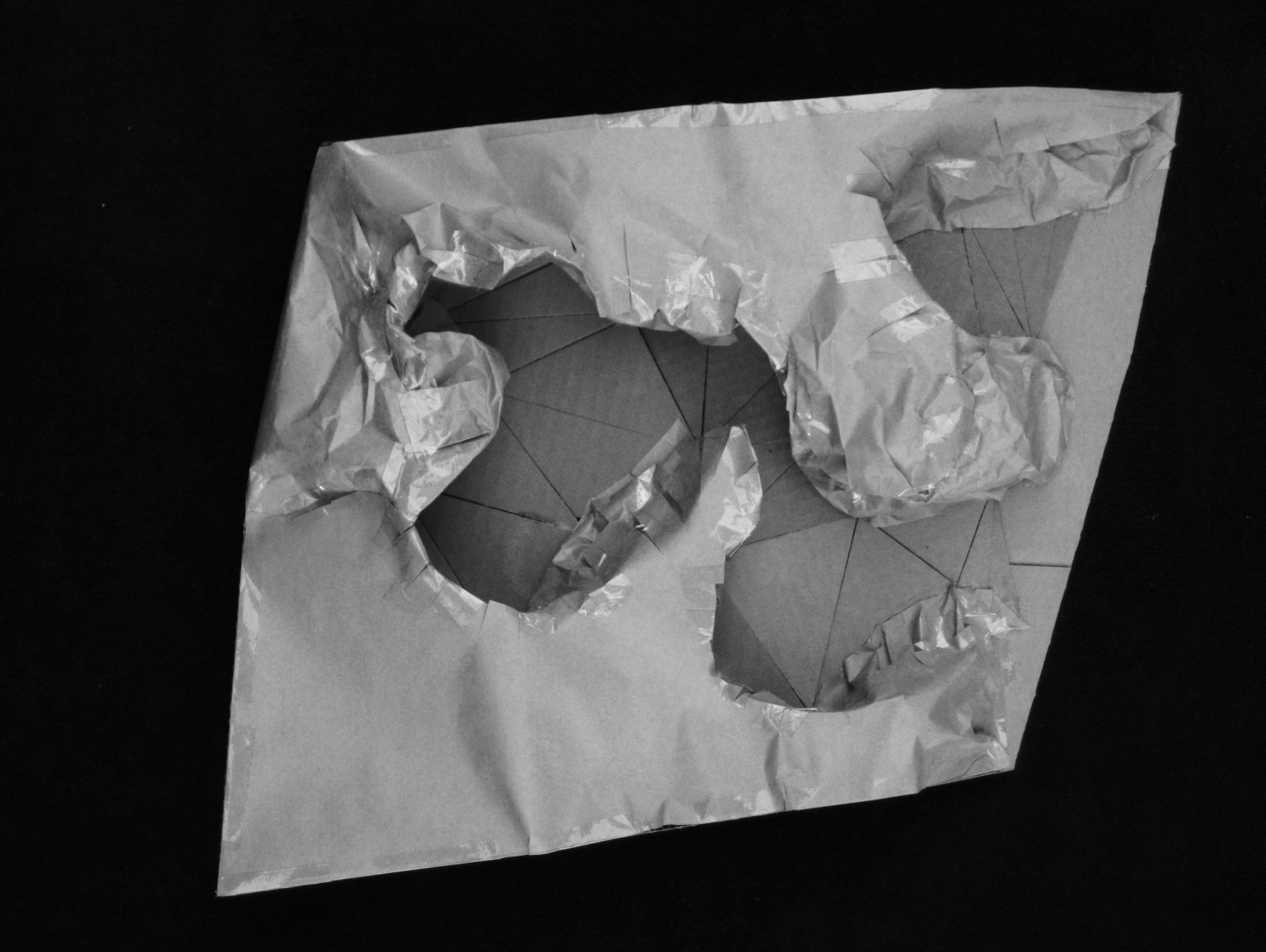




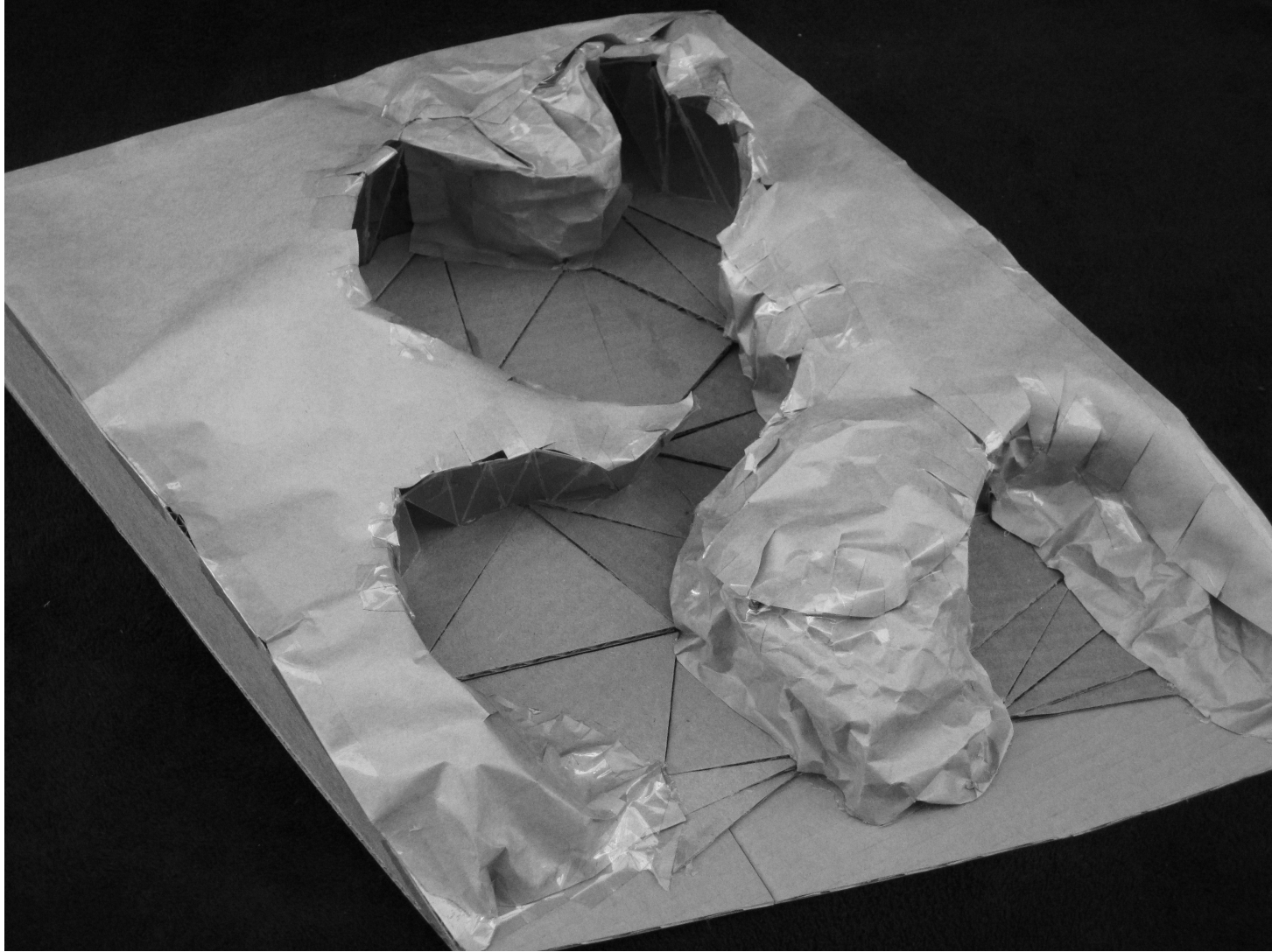
Above: Site plan for newer parti  
experimenting with merging building and landscape.

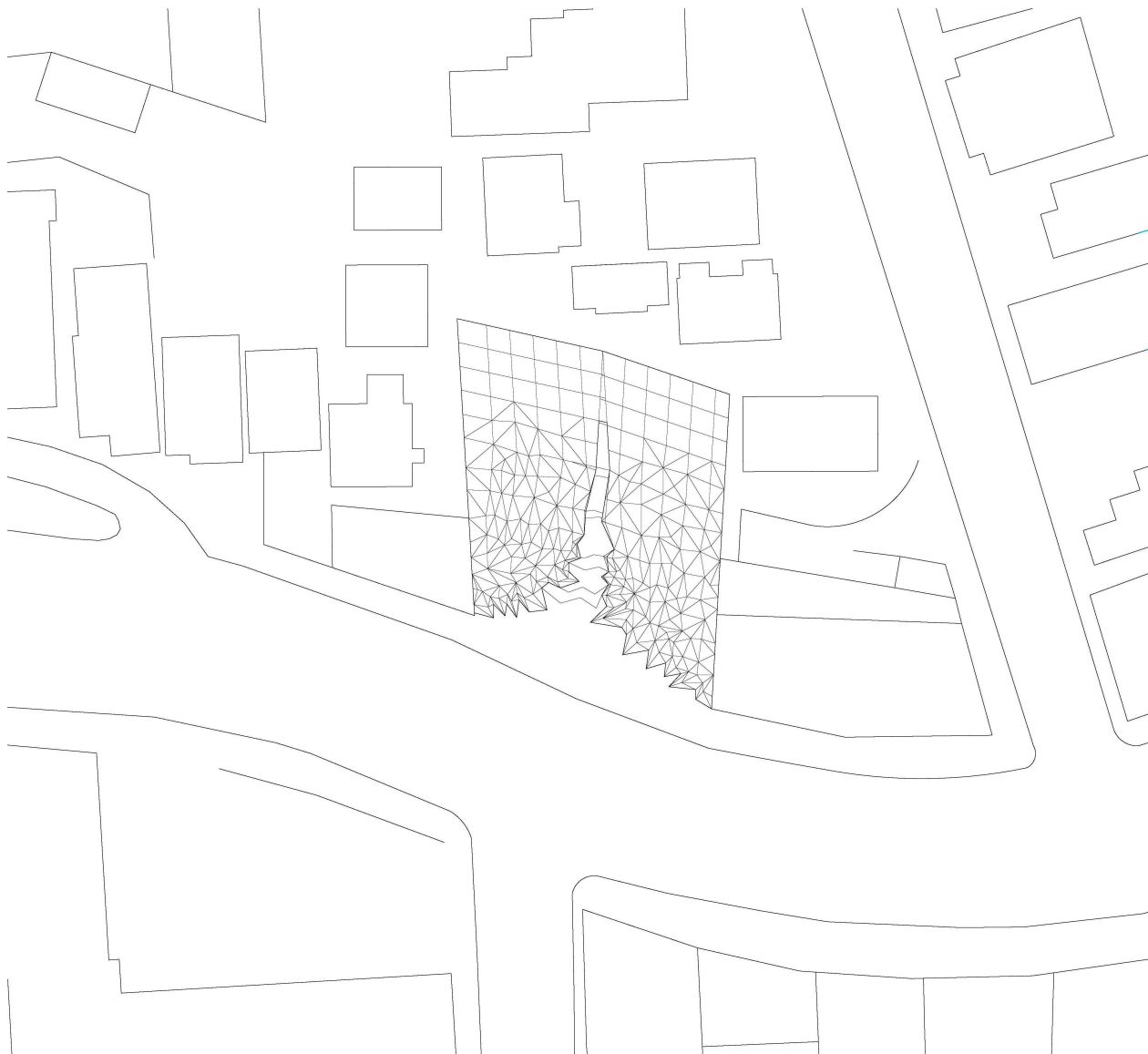
Right page: Cut plan and section for new parti.





Model for "burrowing" parti.

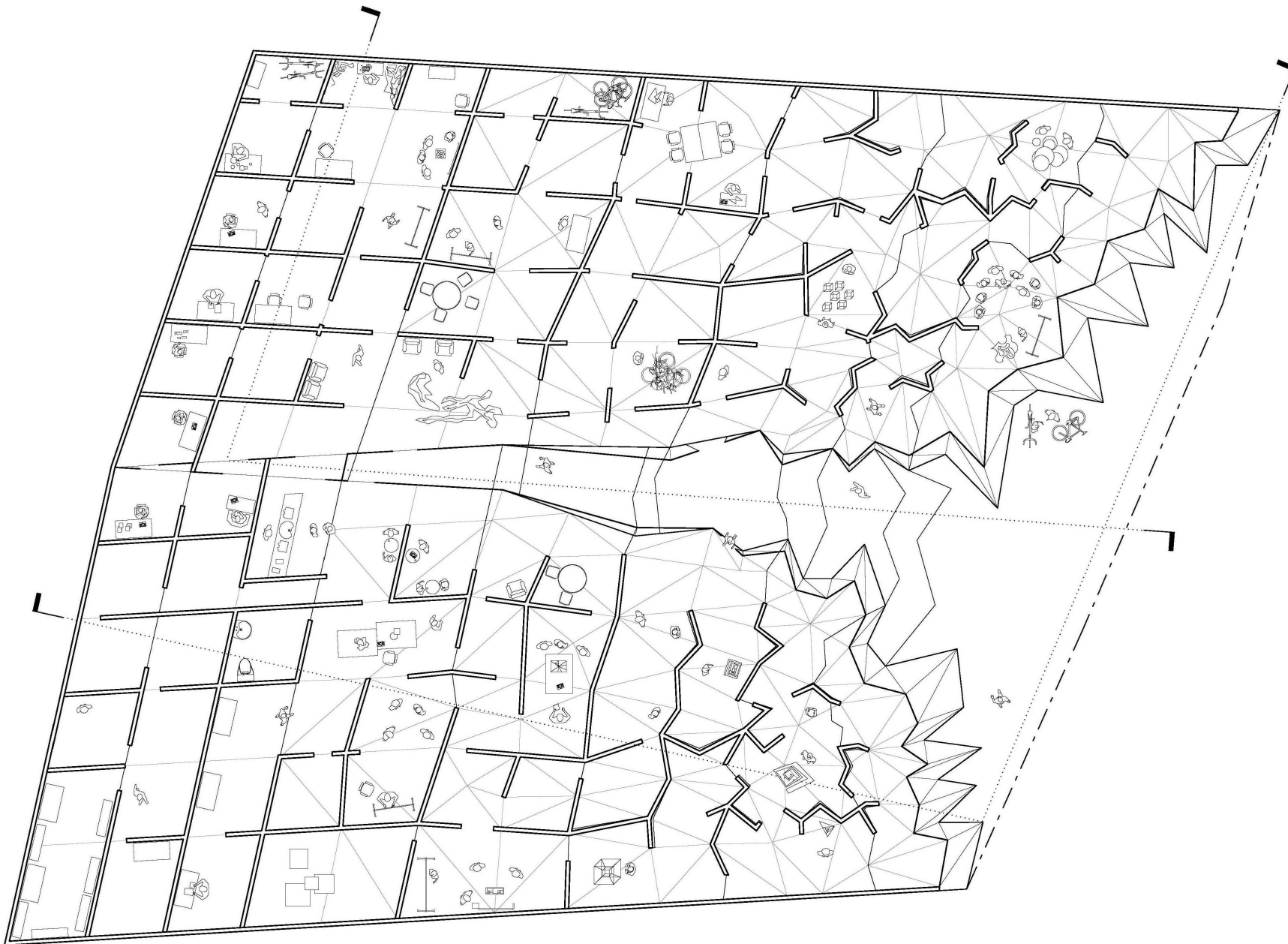




Left: Site plan for final design, facing North.

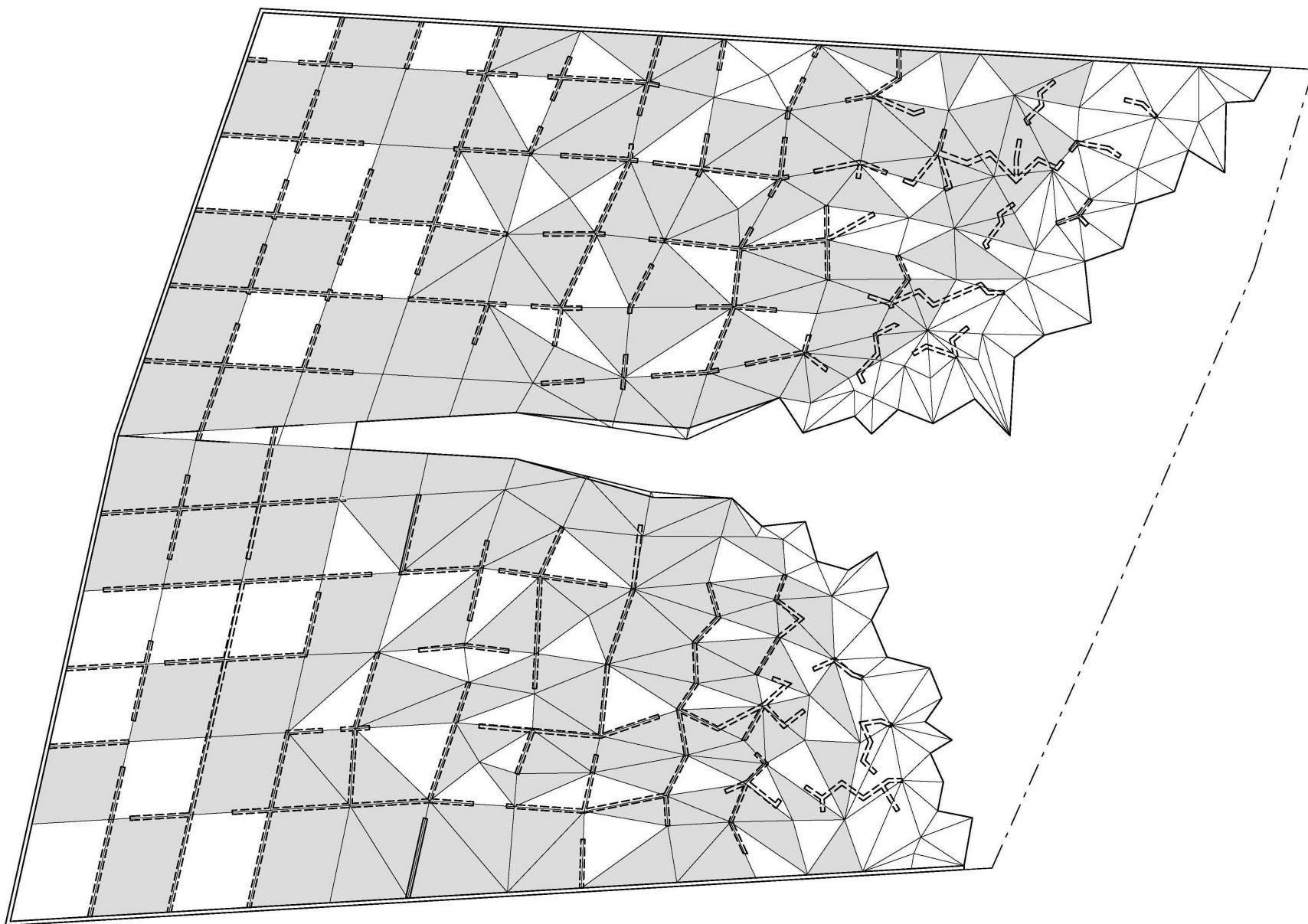
Right page: Roof plan for final design.

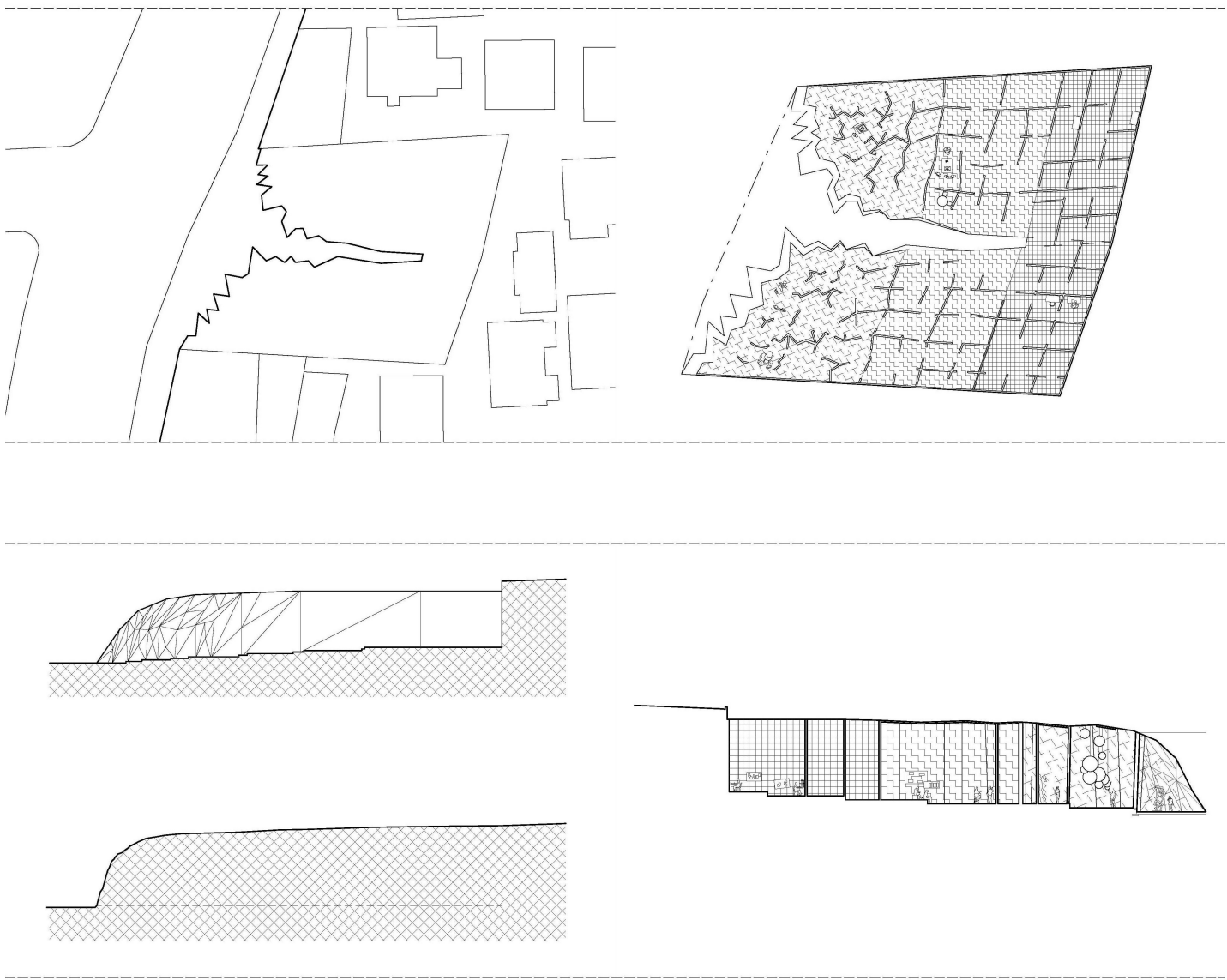




Above: Final cut plan for Slanguage.

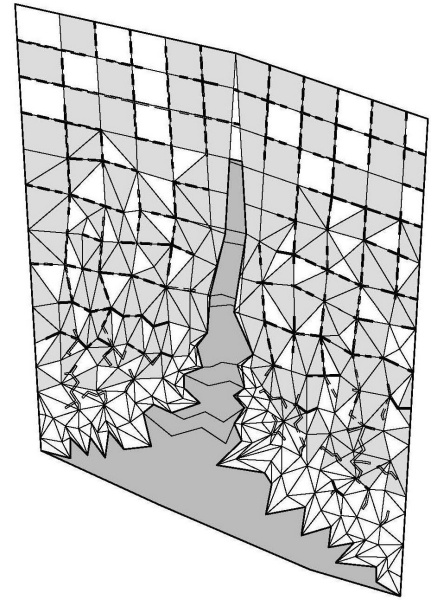
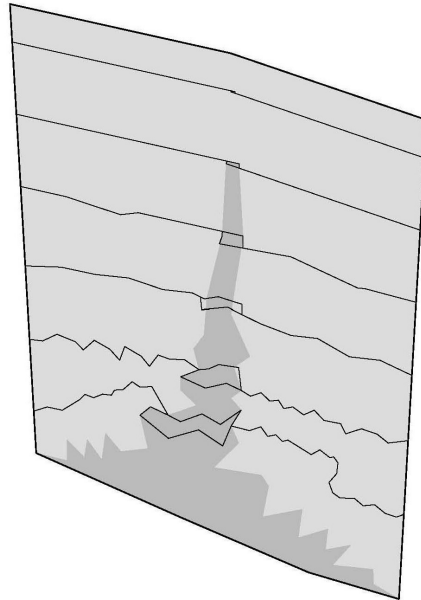
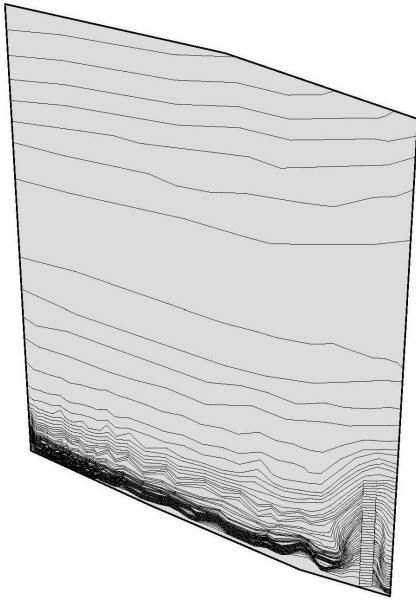
Right page: Final reflected ceiling plan.

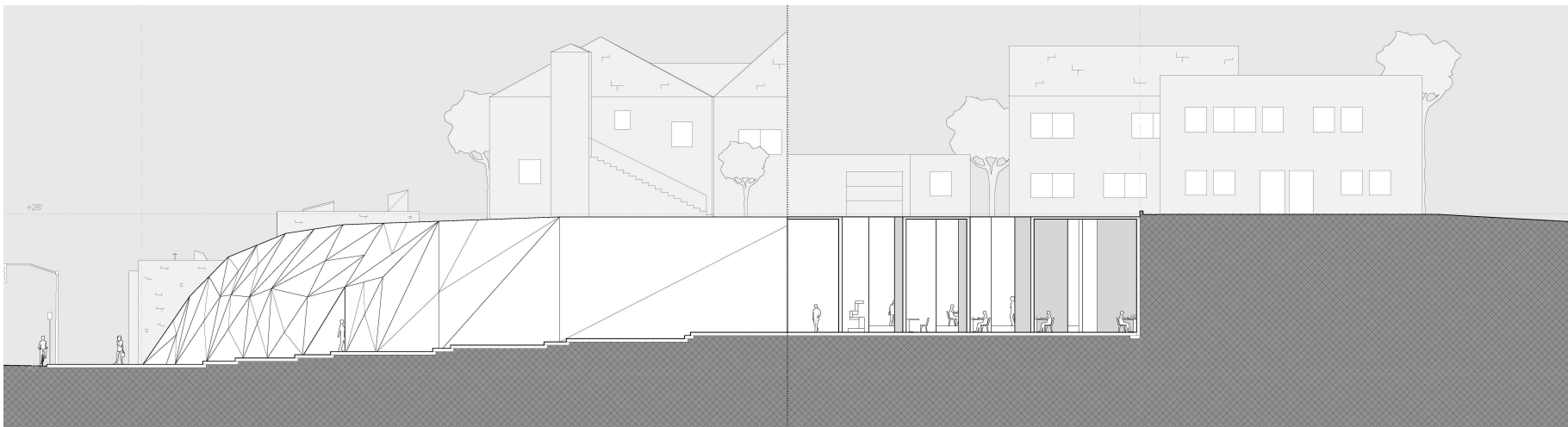




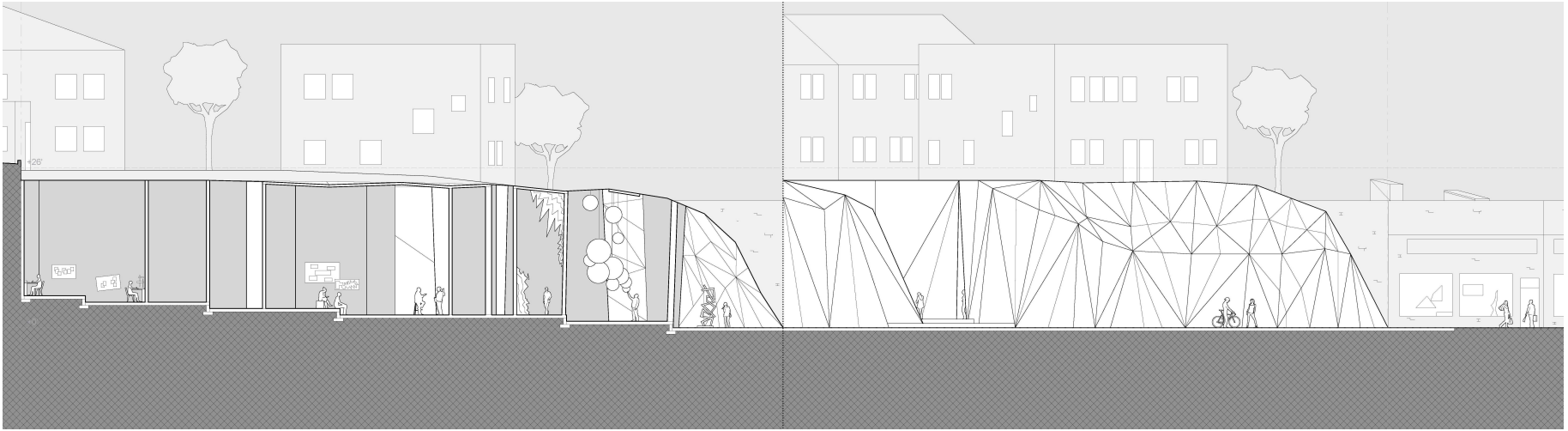
Clockwise from top left: Diagrams showing relationship to context, program, atmosphere, and landscape.

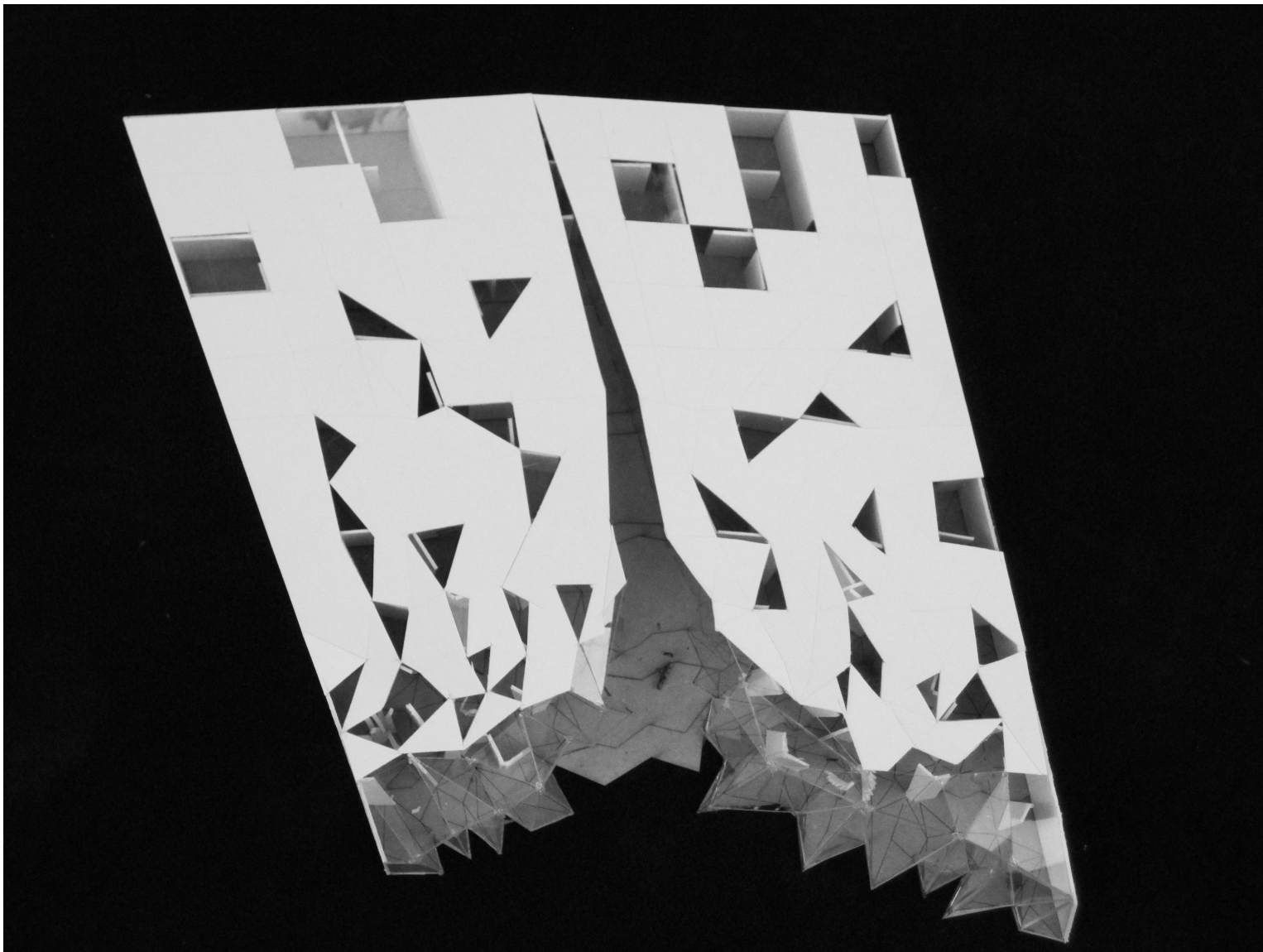
Right page: Diagrams showing construction sequence.



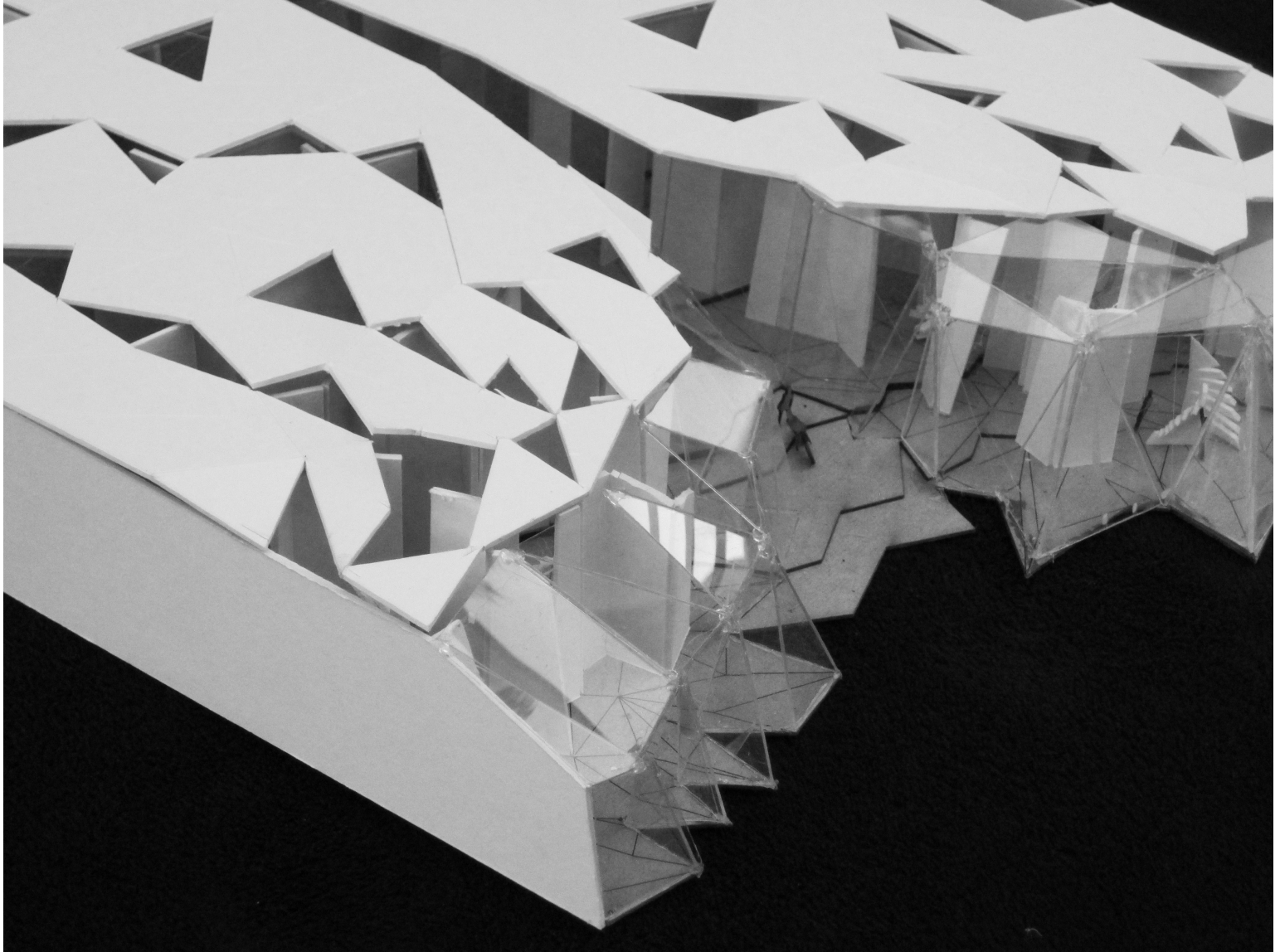


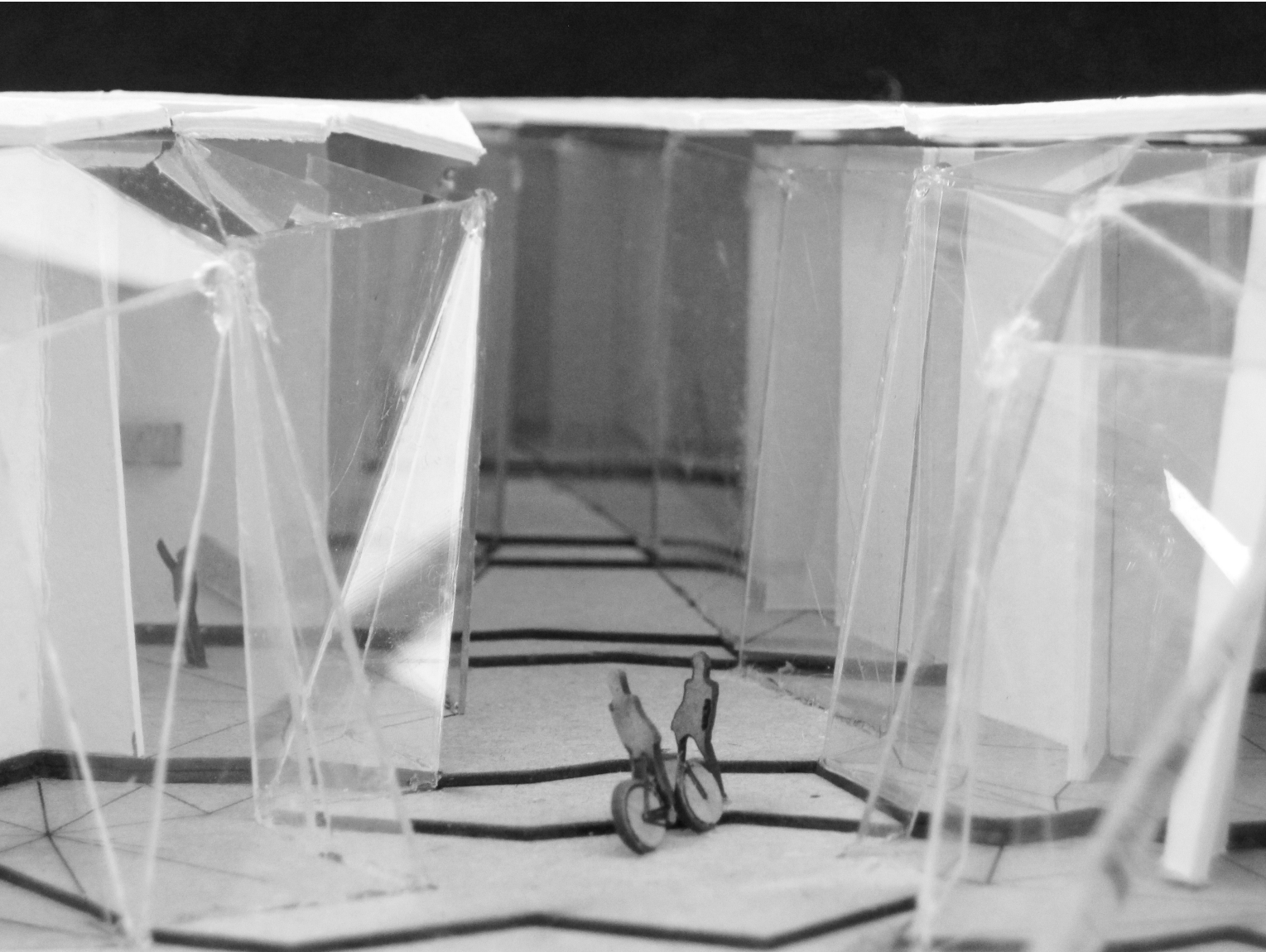
Panoramic sections.

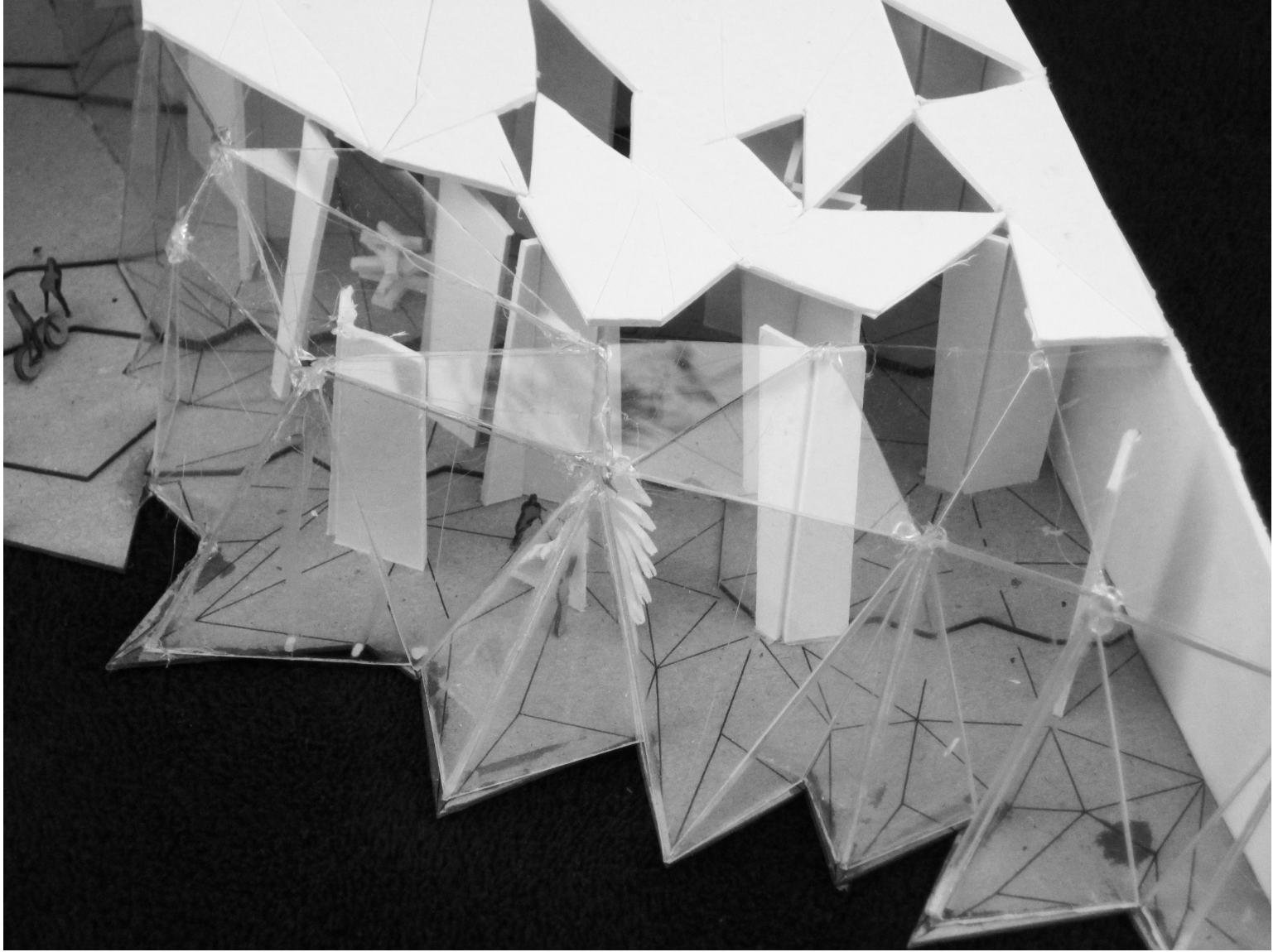


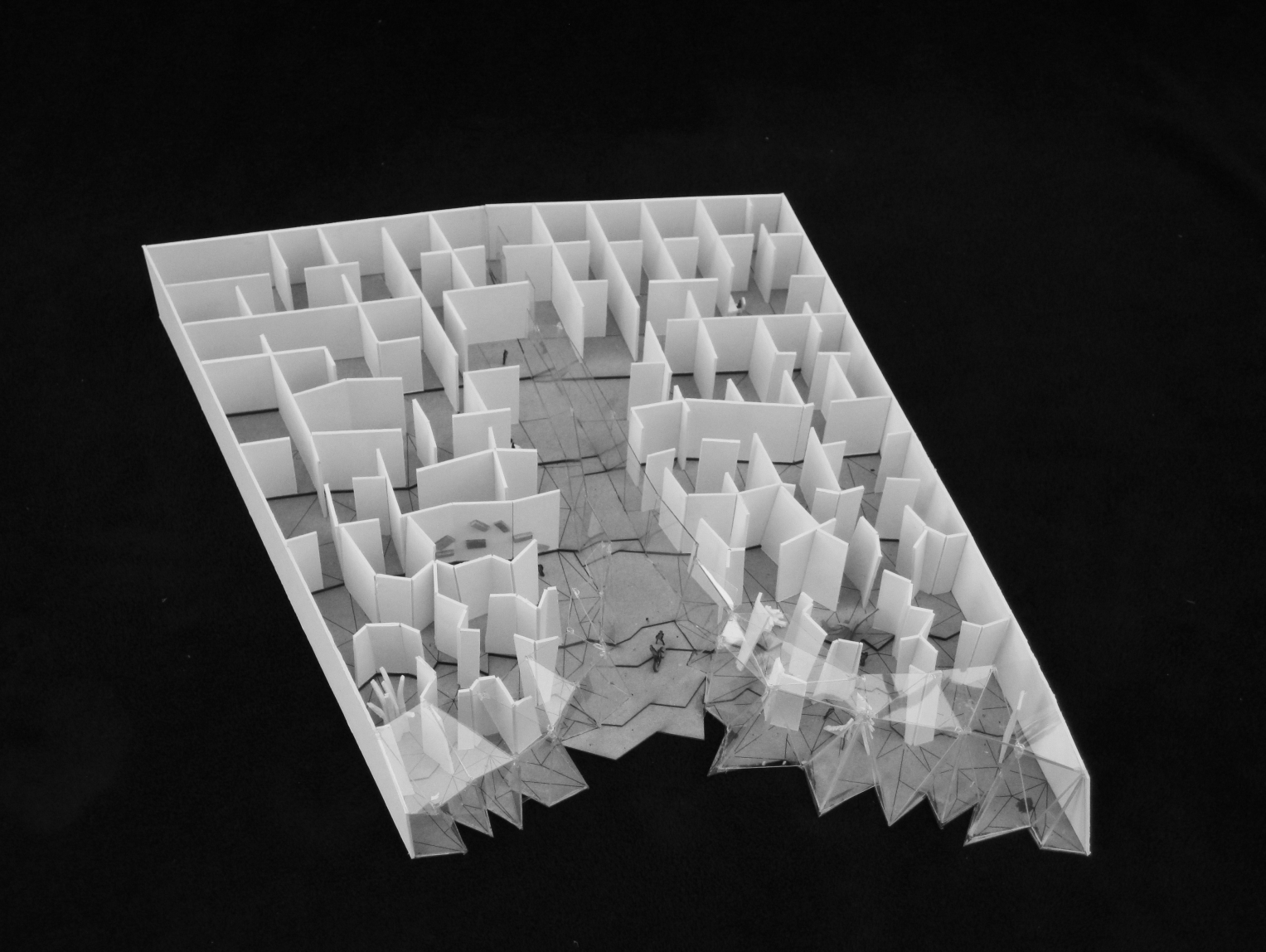


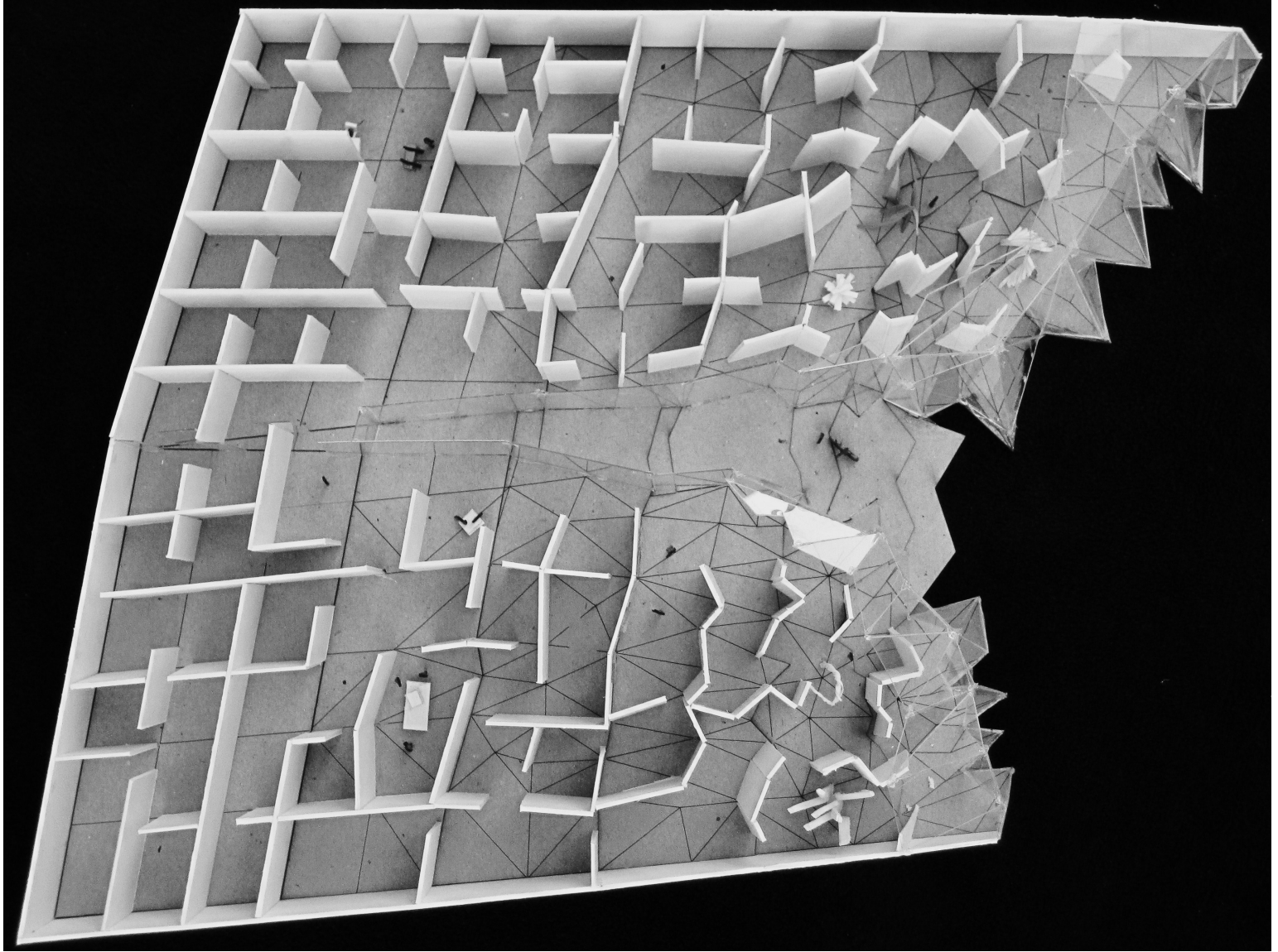
Final model.

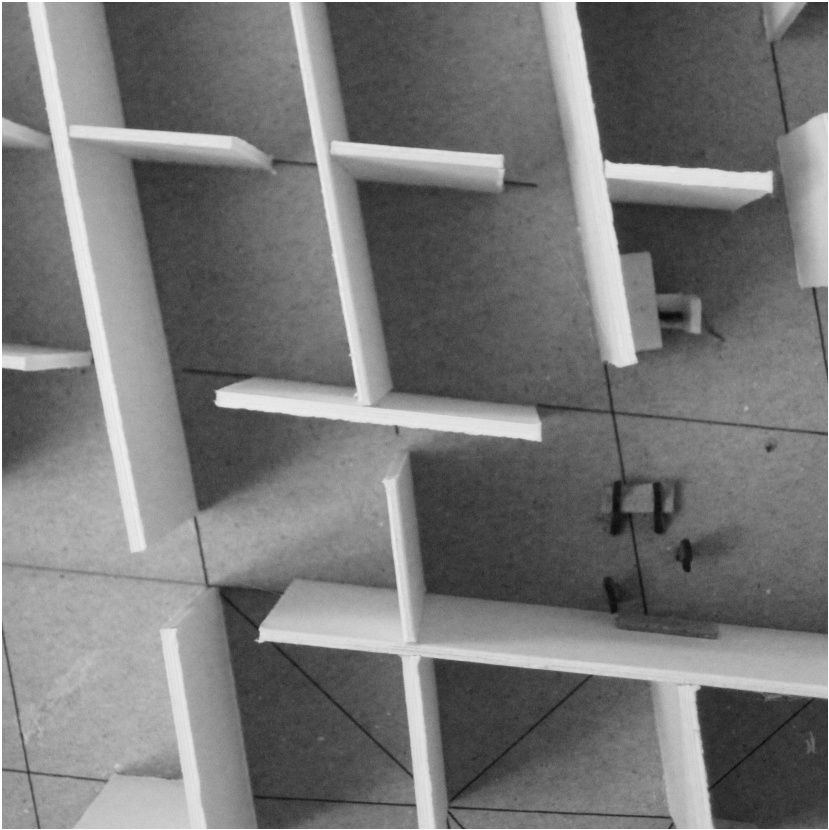
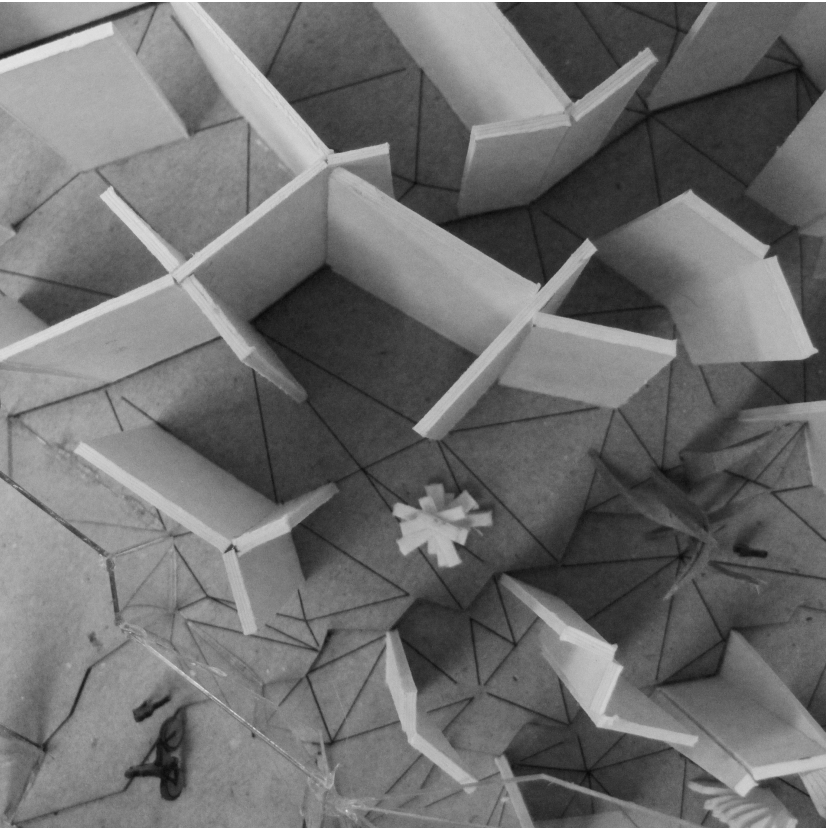


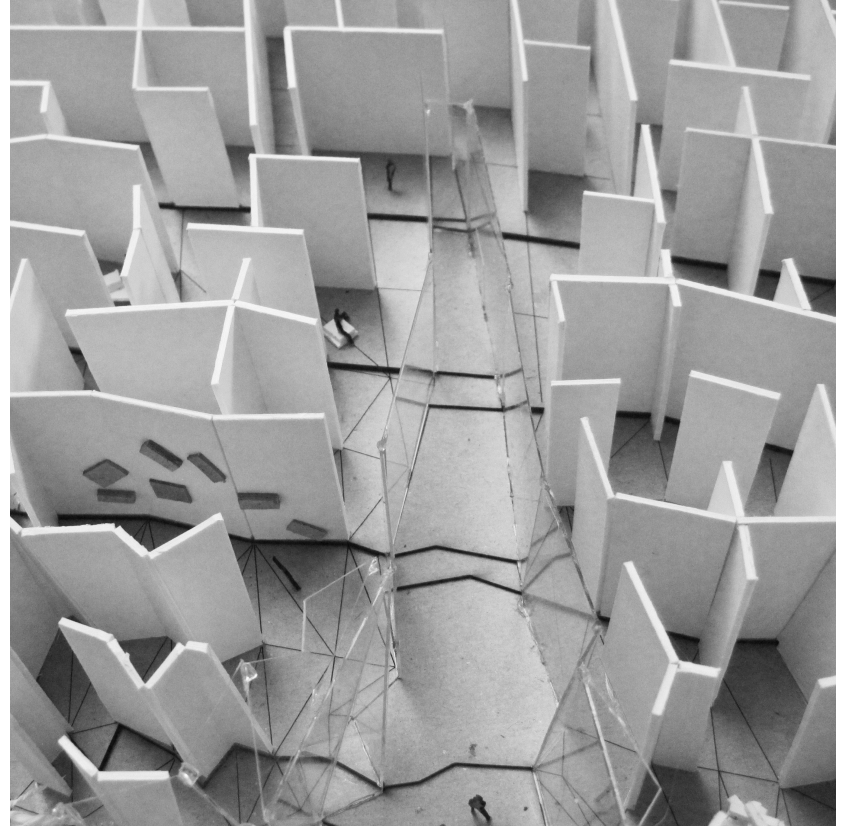
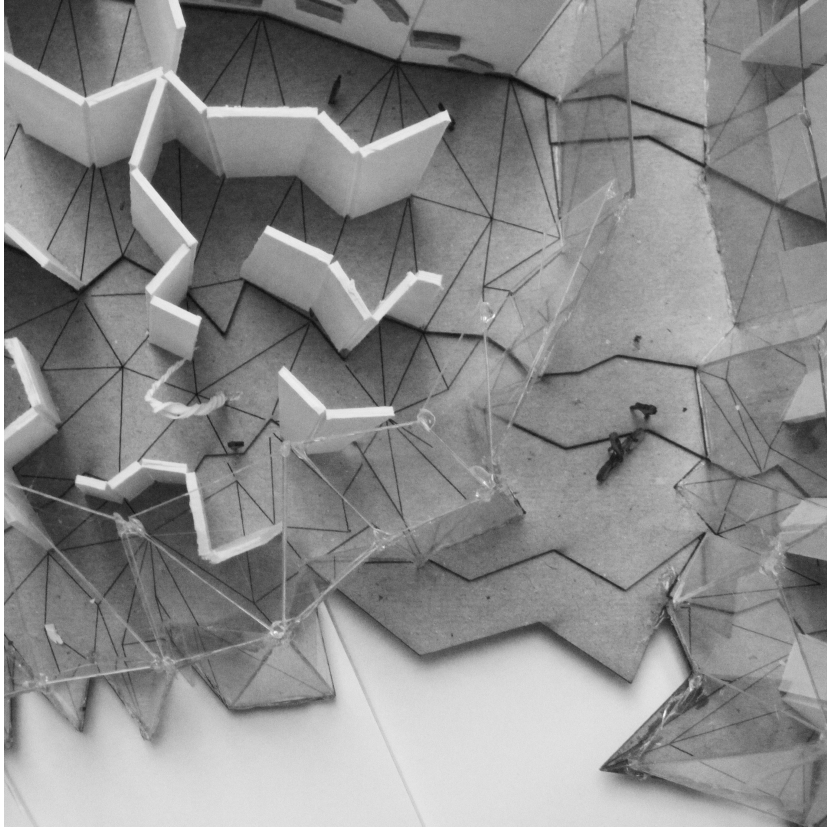














Final model in site.



SPECIAL THANKS TO:

Anne & Alan Mick  
Brendan Muha  
Claudia Otten  
Enoch Chow  
Mina Chow