

Arc Interventions | Yujia Fang

Southern California Institute of Architecture
Master of Architecture 1
2019-2022



01 | Beyond Tabula Raza

Summer 2022
Graduate Thesis
Instructor : Marcelo Spina

An Additive and Subtractive Spatial approach to Urban Renewal for China existing dense Urban Villages.

Rather than merely continuing the mainstream tendency in China to completely erase the past in pursue of urban renewal, and at the same time, continue to advocate the need to progressively intervene in our cities while creating a new village typology for all. My thesis speculates on a radical albeit plausible middle-ground between Tabula Raza and pure preservation.

To achieve this, I have subjected my project to some of the predicaments of Jane Jacobs, not to abide by her anti-development approach but to suggest that these ideas can still be used nowadays while supporting innovative spatial frameworks for intense living and dense communities.



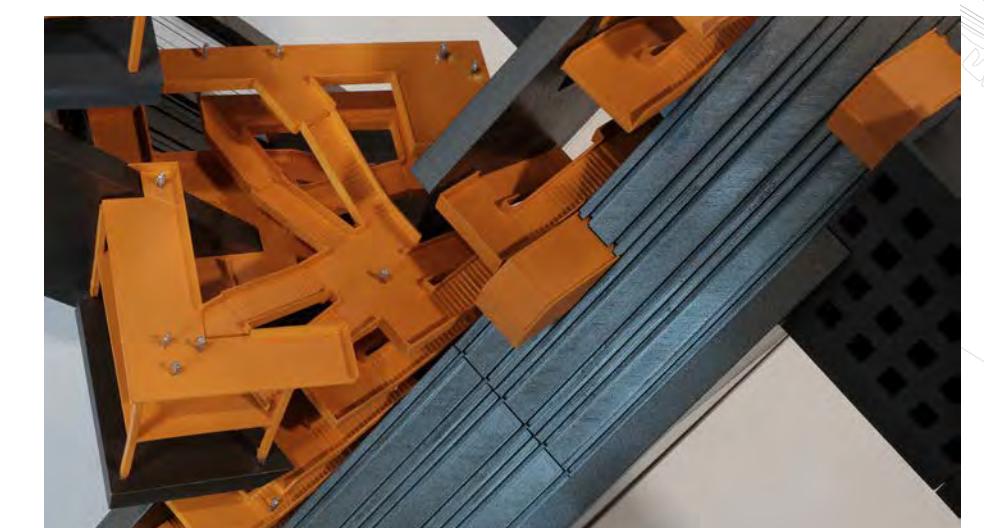
Axis Rotating Chunk



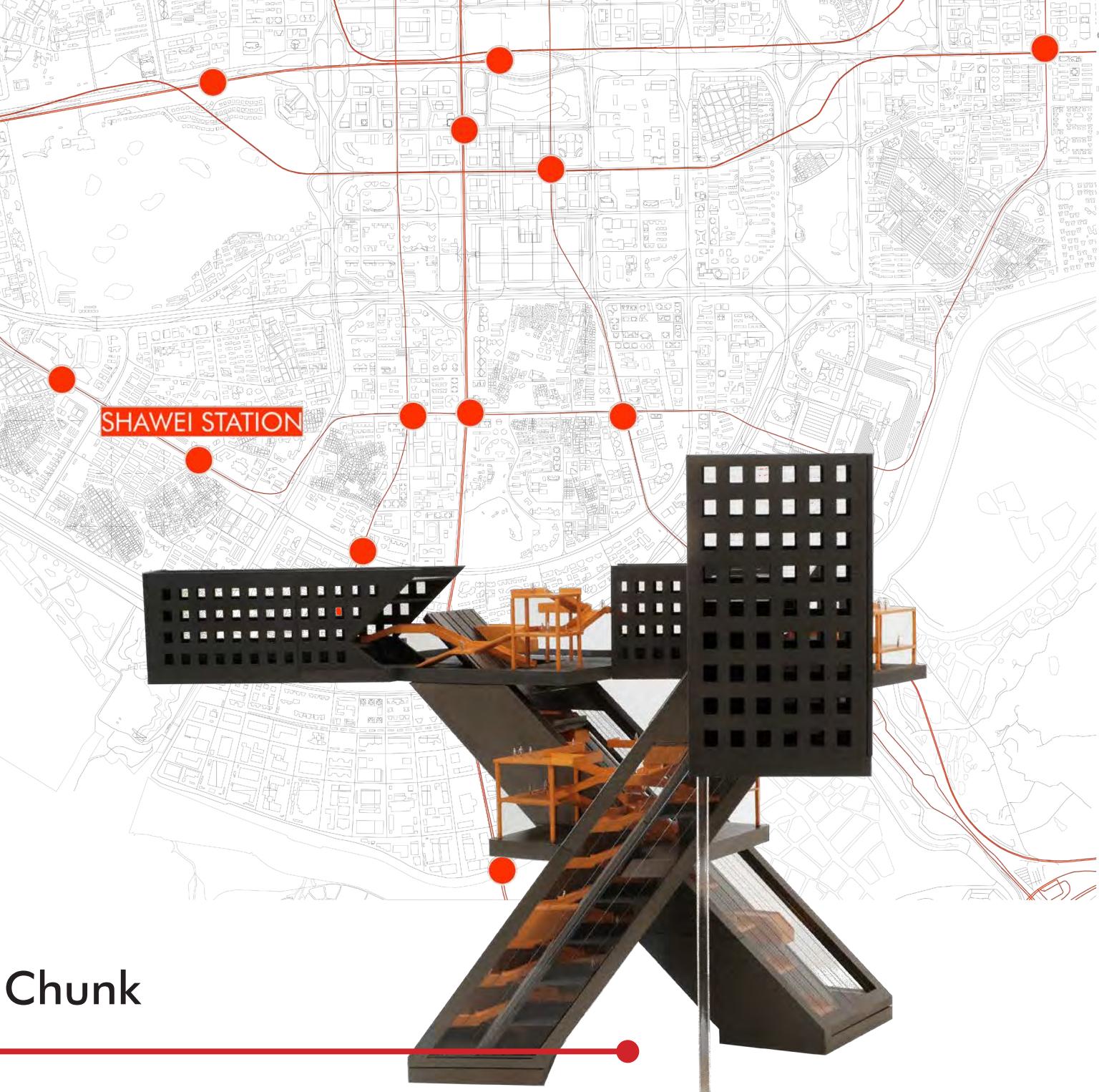
Three Transition Stops



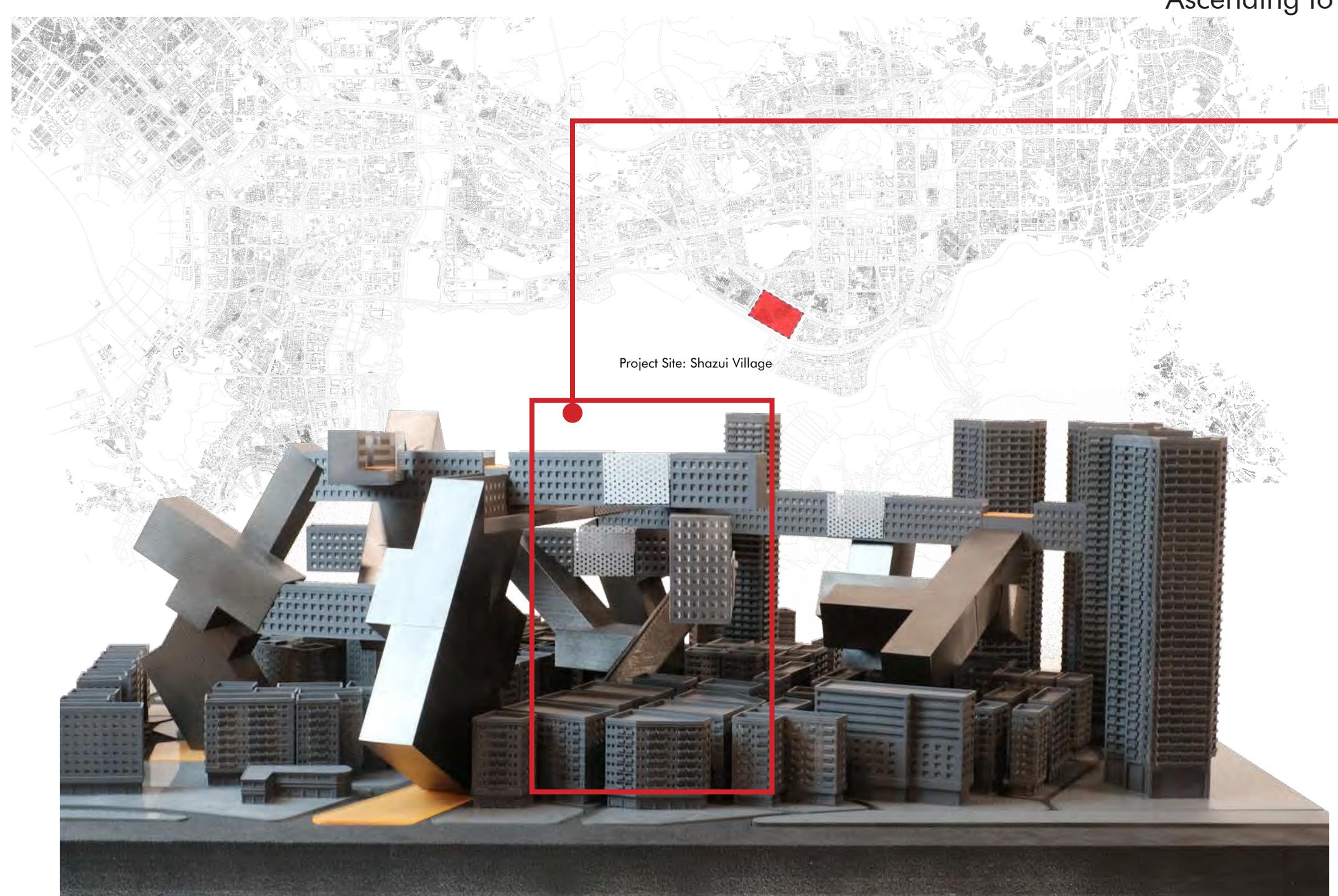
Ascending to Stop



Ascending to Stop (Bird)



Site Model to Selected Detail Chunk



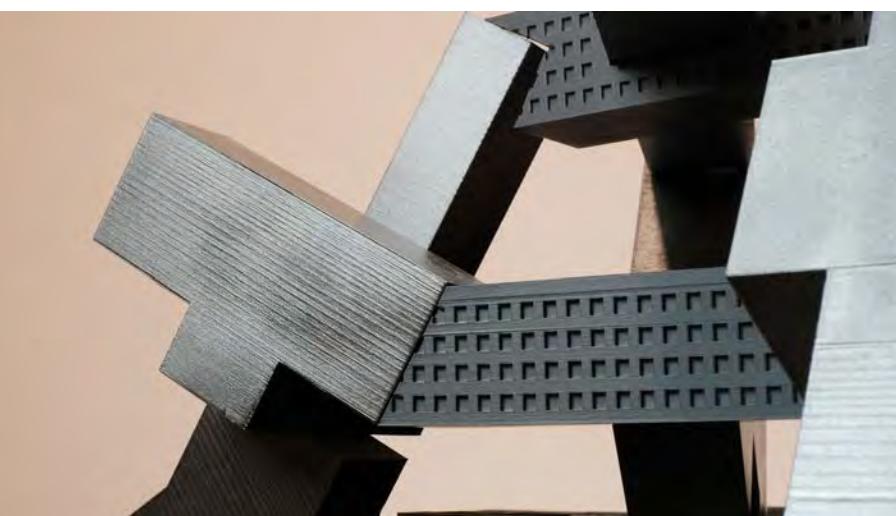
Site Model



South East Opening



Ascending Oblique



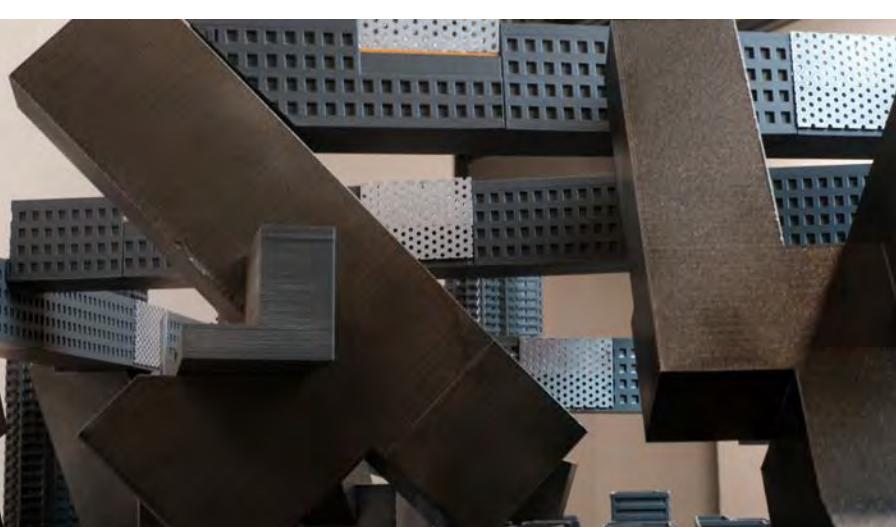
Declining Oblique



South West Envelope



Ascending Oblique (Right)



Declining Oblique 2

02 | Oblique Collision

Fall 2021

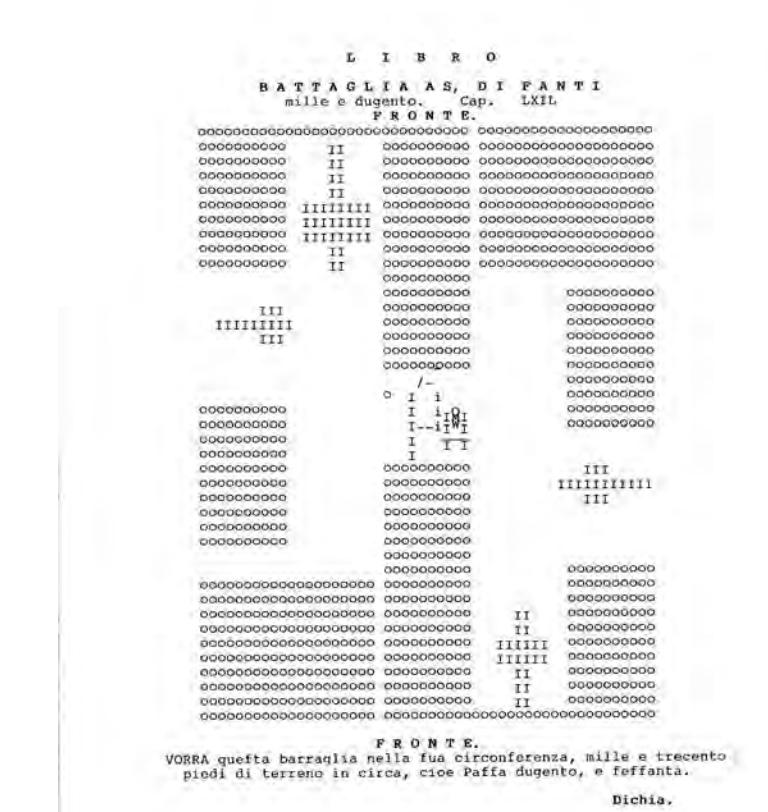
3GA Design Studio

Instructor : Andrew Zago

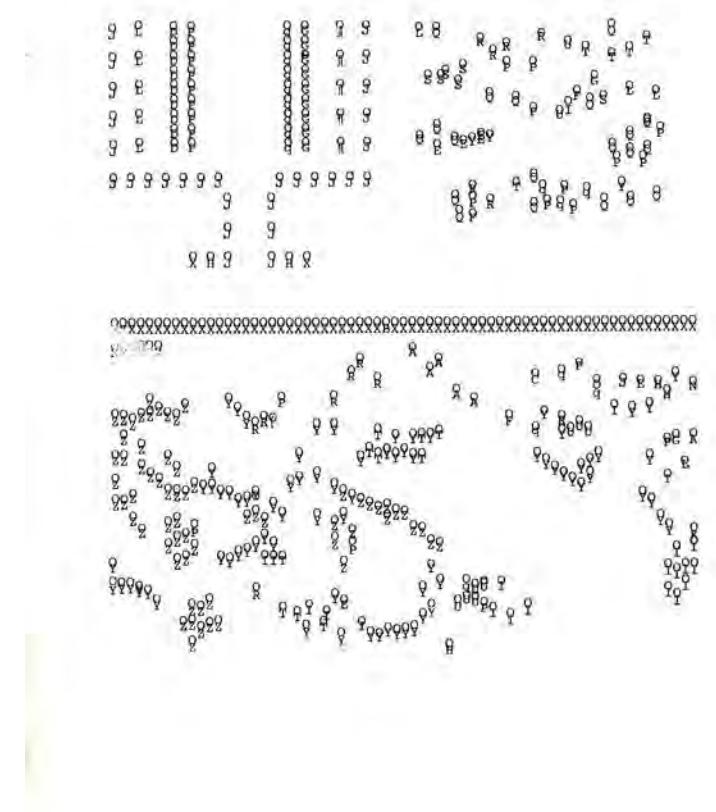
Choreographs: architecture in the expanded field

Researching images which use simple letters as representations of Military form from *Della arte della guerra* by Machiavelli Niccolò and various works of Palladio Andrea, Looking into the Choreographs of Ancient Korean Palace drawings, the chaos and collaboration of this two were translated by the typewriter drawings which only can type limit size letter in strictly arrange space.

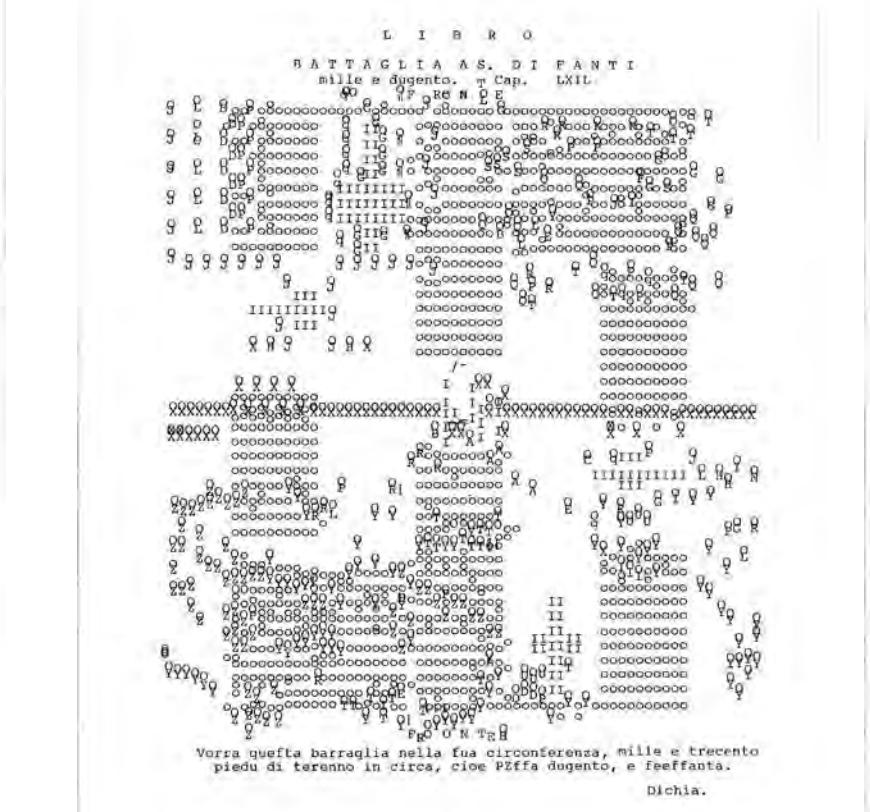
Continuted from the typewriter drawing which indicates how two different set of letter collide, the project presents three bars come from the ground and each of them has their own slope in both vertical and horizontal directions. The 1:20 slope provide wallking friendly surface both for exterior roof and interior space. The intersection block become the chaos to connect three different movements.



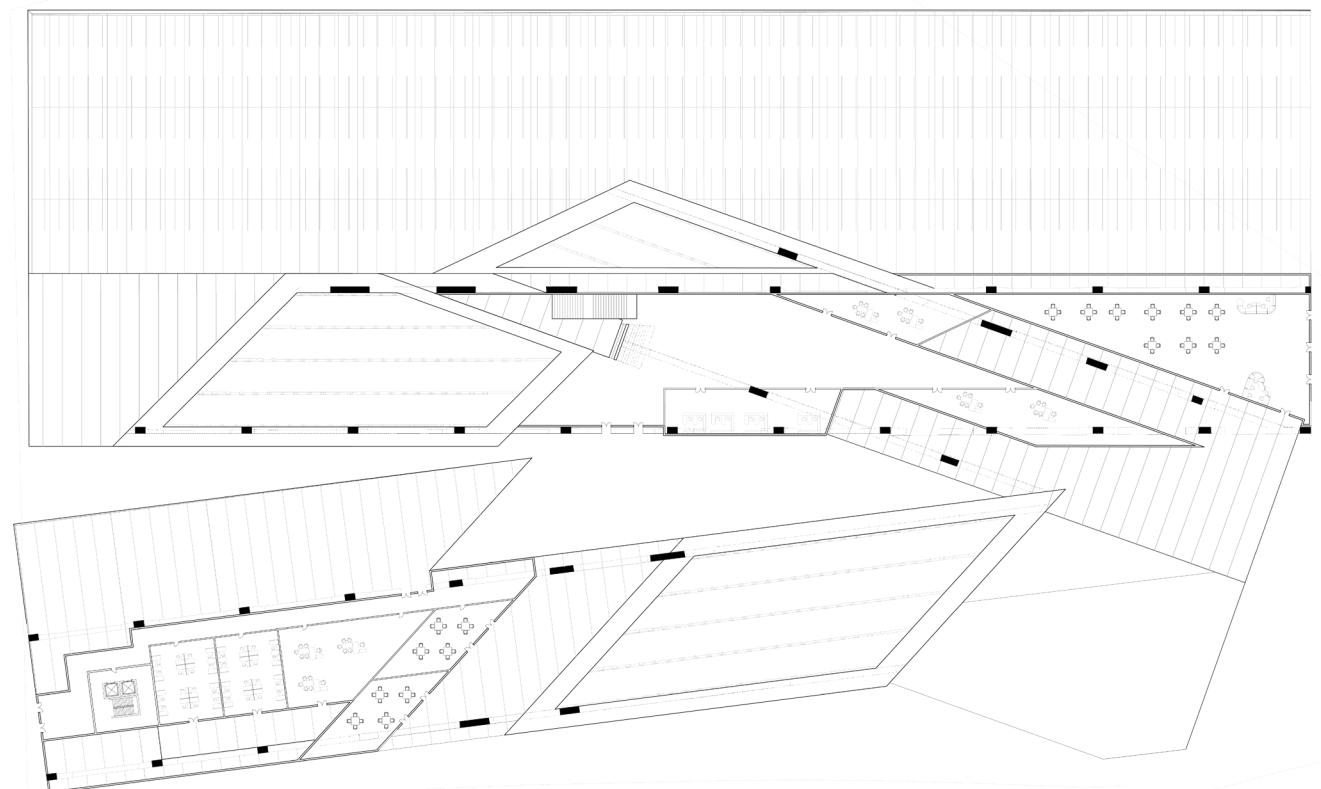
Translation From Millitary Array



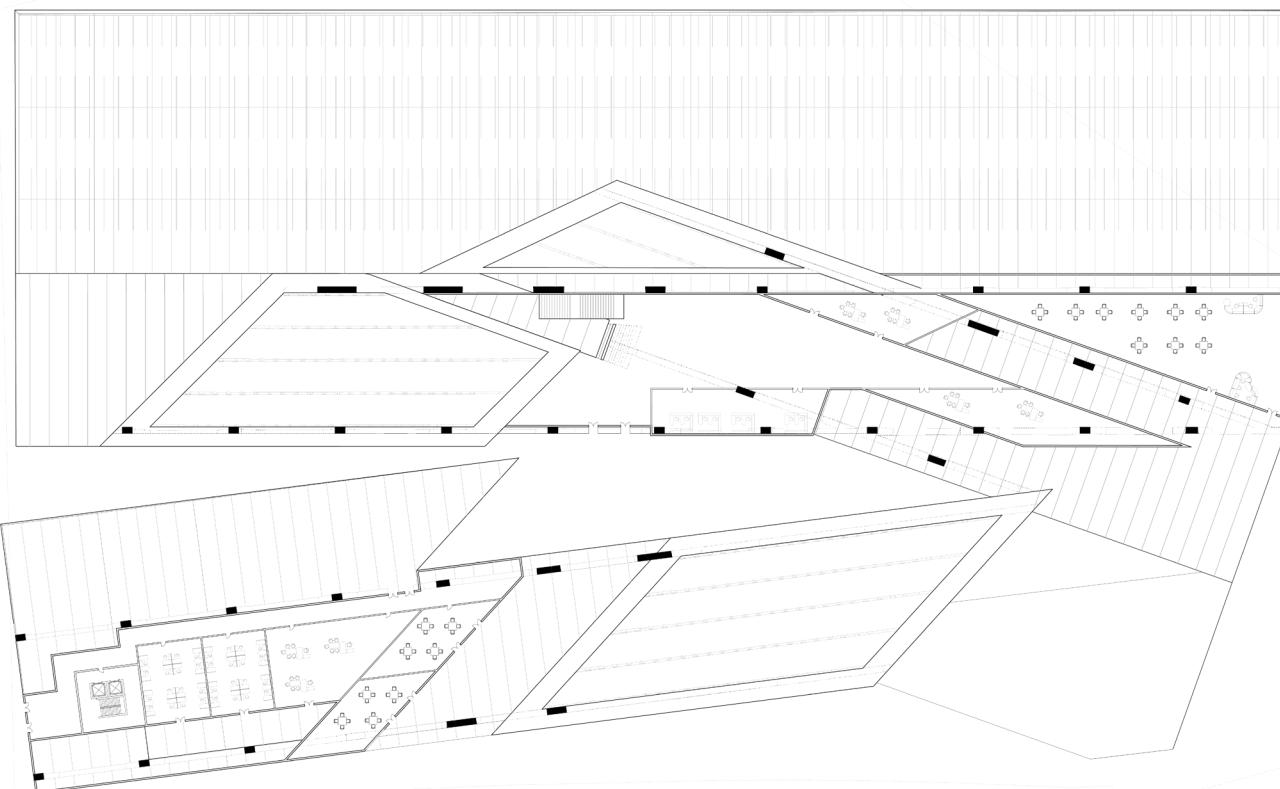
Translation from Painting of the Royal Procession to Hwaseong



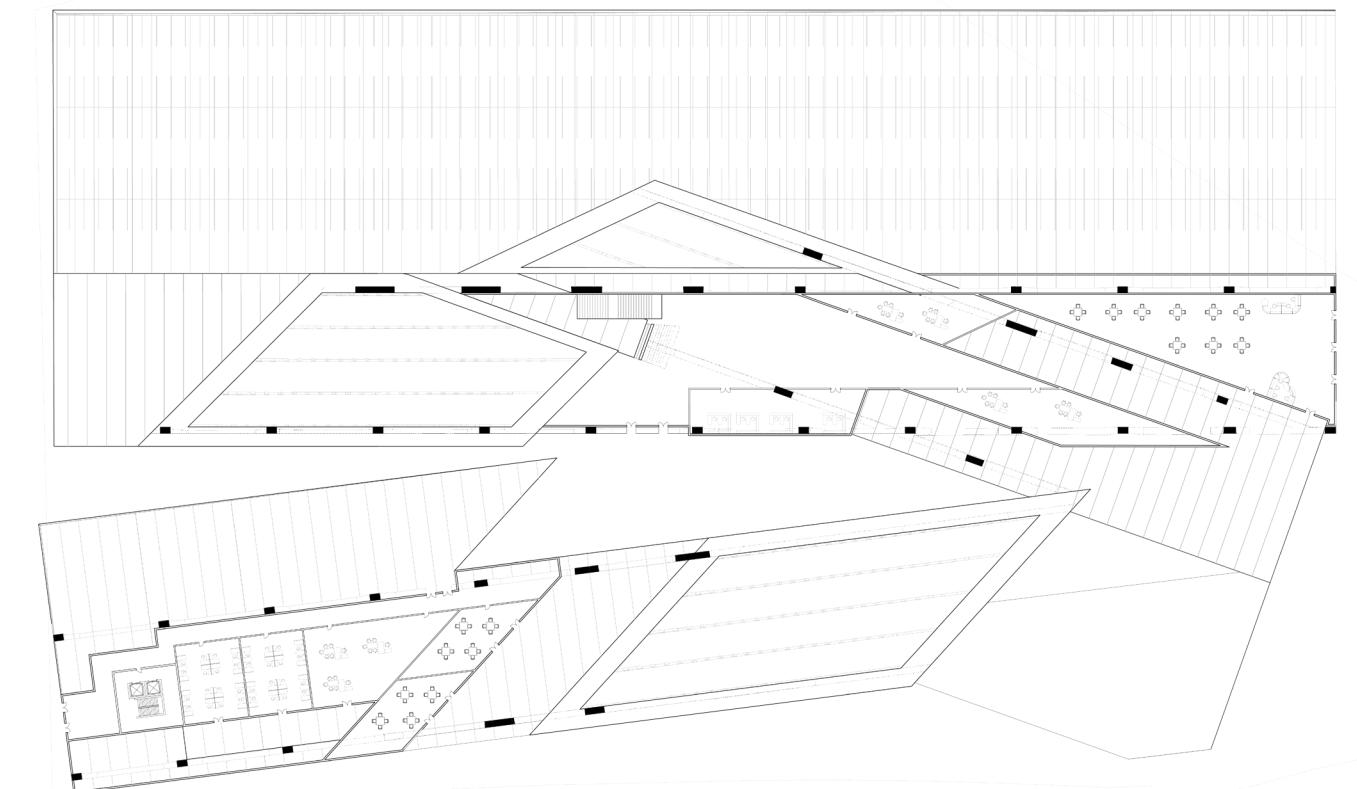
Choreographs Recreation



Ground Floor Plan 1:500



Second Floor Plan 1:500



Third Floor Plan 1:500



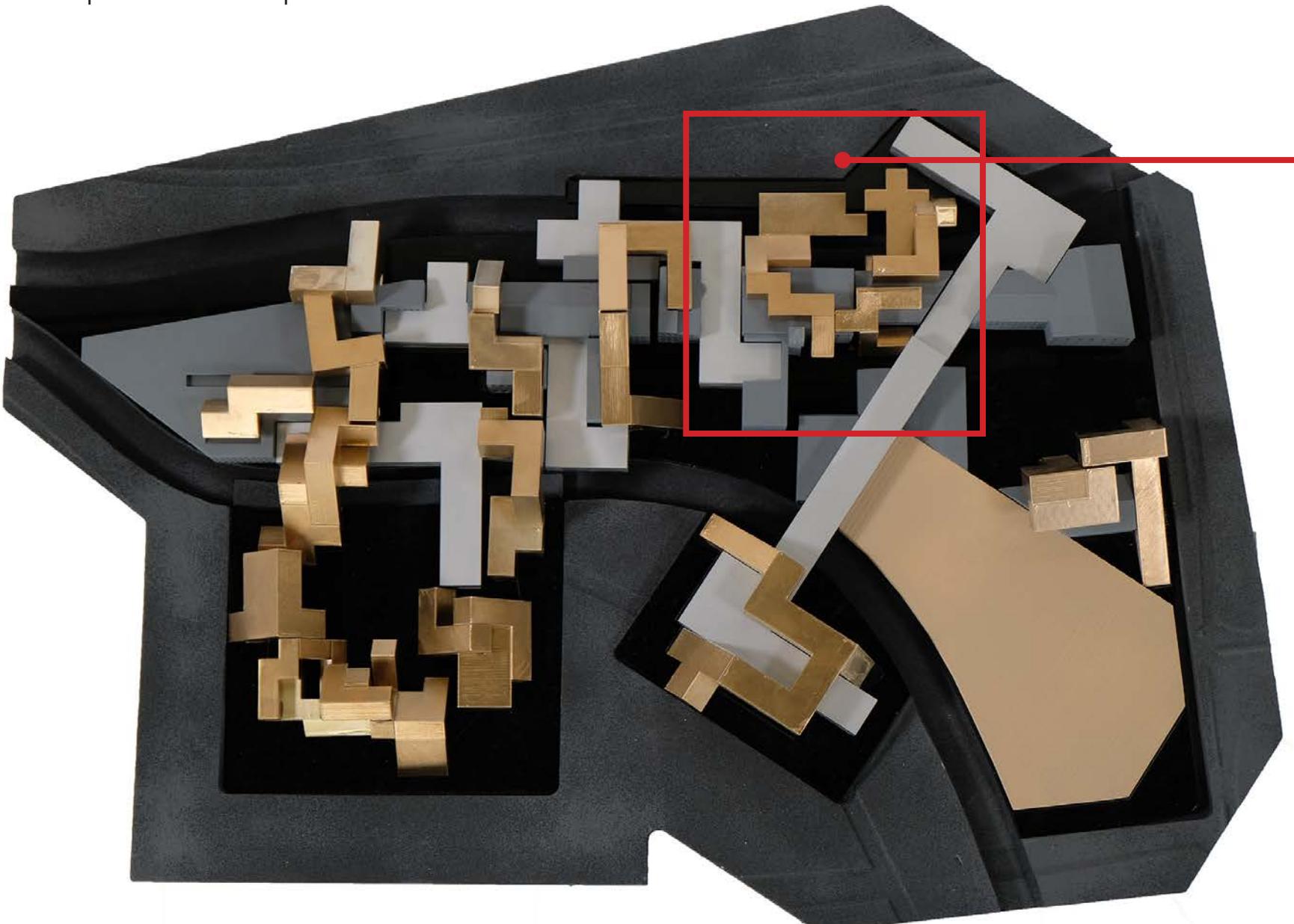
03 | Positive Intervention

Spring 2022
3GB Design Studio
Instructor : Marcelo Spina

Unstable Ground: Oblique Forms Reconsidered for Social, Political, Cultural & Environmental Engagement

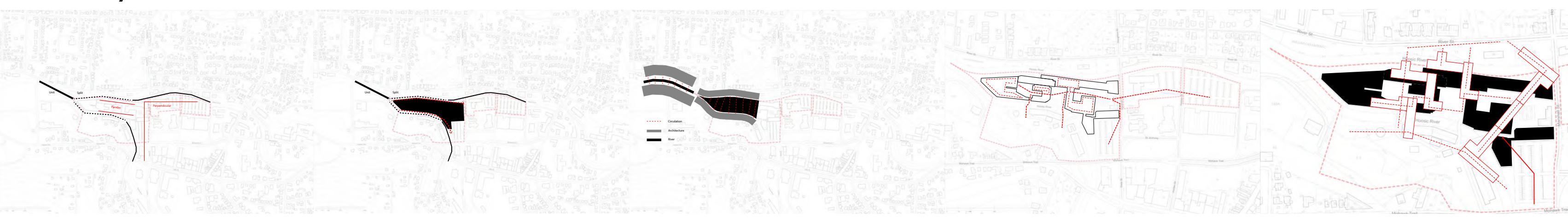
The studio explored new forms of engagement with the ground; literally, conceptually, socially, politically, culturally and environmentally; wherein the ground both retains and challenges the preeminence of pure horizontality. Whilst considering architecture's necessary commitment to planarity as a way of fostering social interaction, the studio will aim to expand this notion by incorporating an ensemble of oblique forms and volumes, therefore bestowing the architecture itself with a degree of instability.

By focusing on the [existing] ground, the studio aims to deal with both disciplinary and specialized aspects of our field, but also with critical environmental and social questions of our present-day world. The studio will engage the discipline of architecture by revisiting a problem, that of the oblique, which registered an important formal innovation in architectural theory in a period wherein architecture and culture began to intersect. Similarly, it will engage the profession, by recognizing a certain pragmatism and accessibility of horizontally organized structures. Lastly, the studio seeks to address environmental and social justice issues by emphasizing the importance of an architecture in close proximity with the ground, as the predominant collective and cultural milieu wherein human activity and interaction as well as public life takes place.

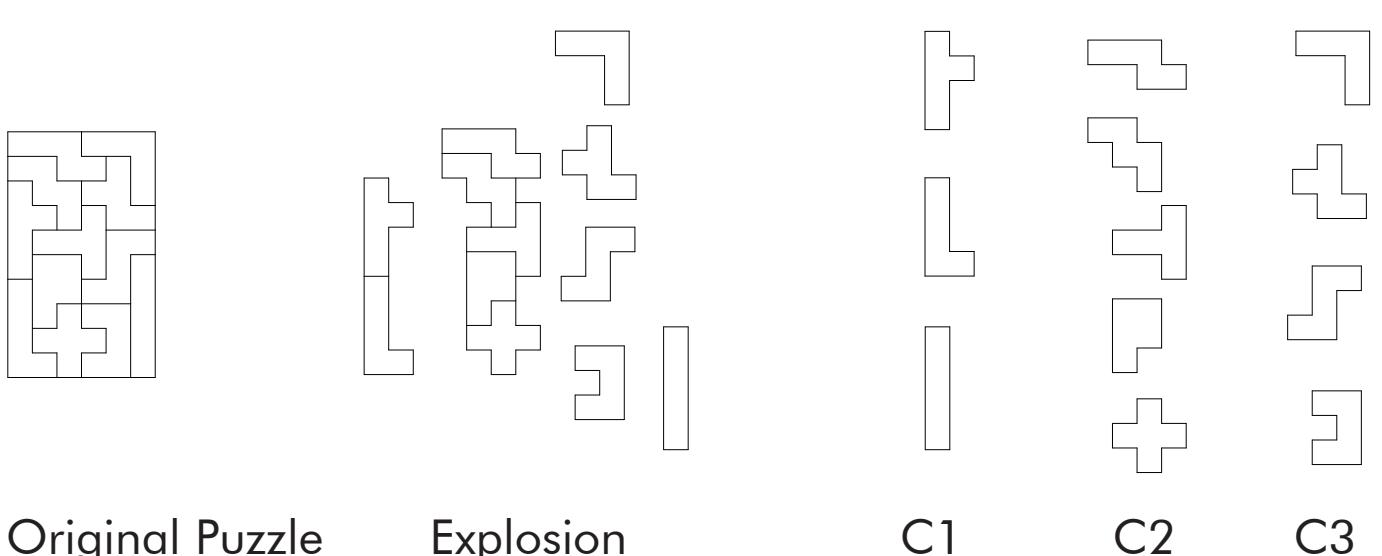


Masterplan Model

Site Analysis

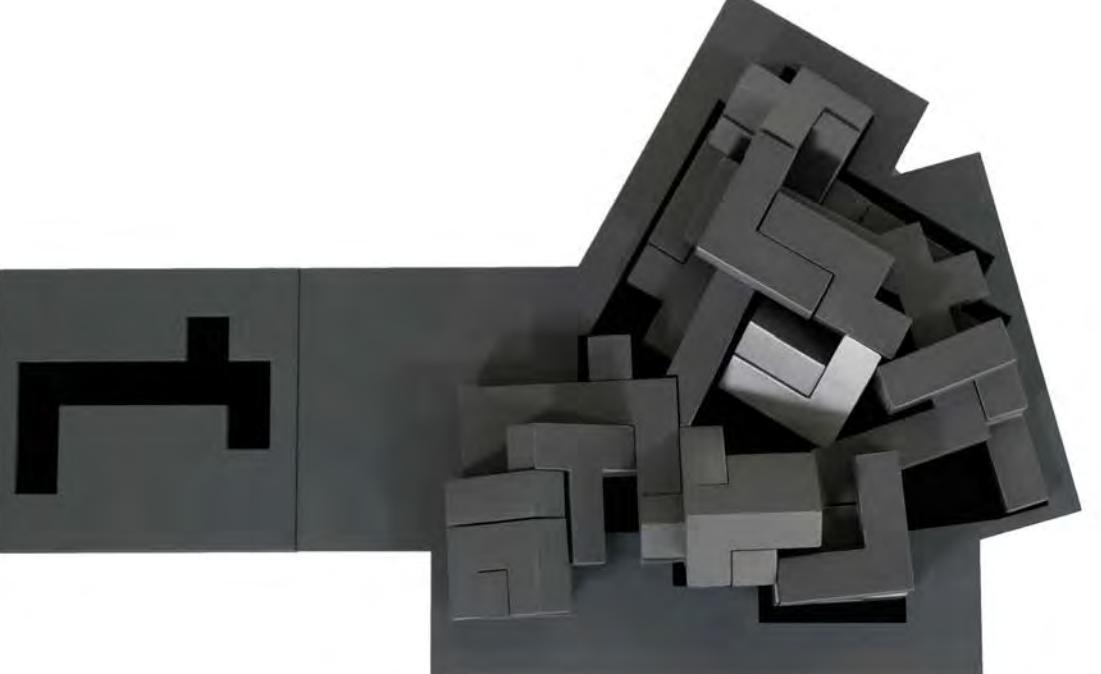


Massing Approach

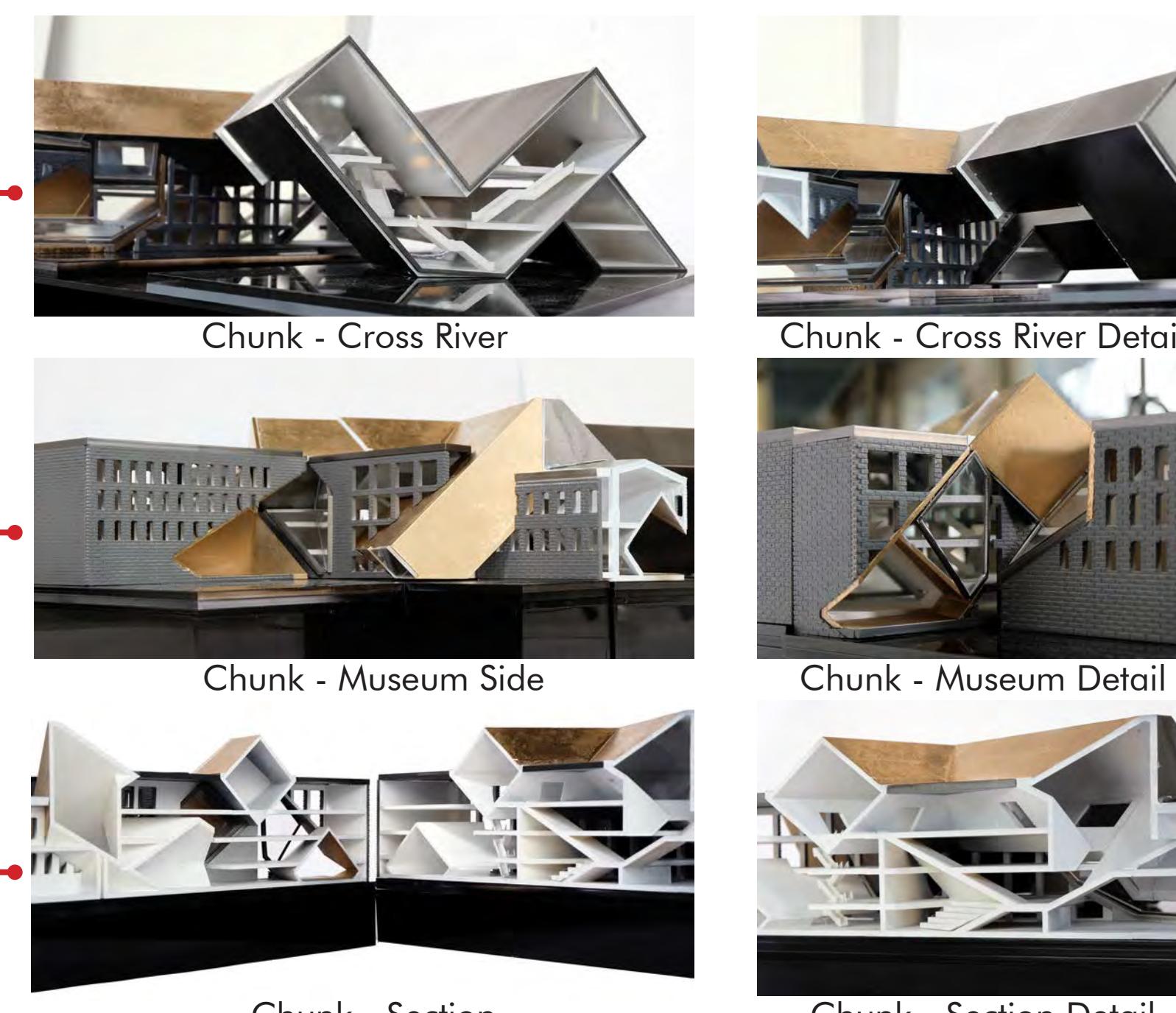
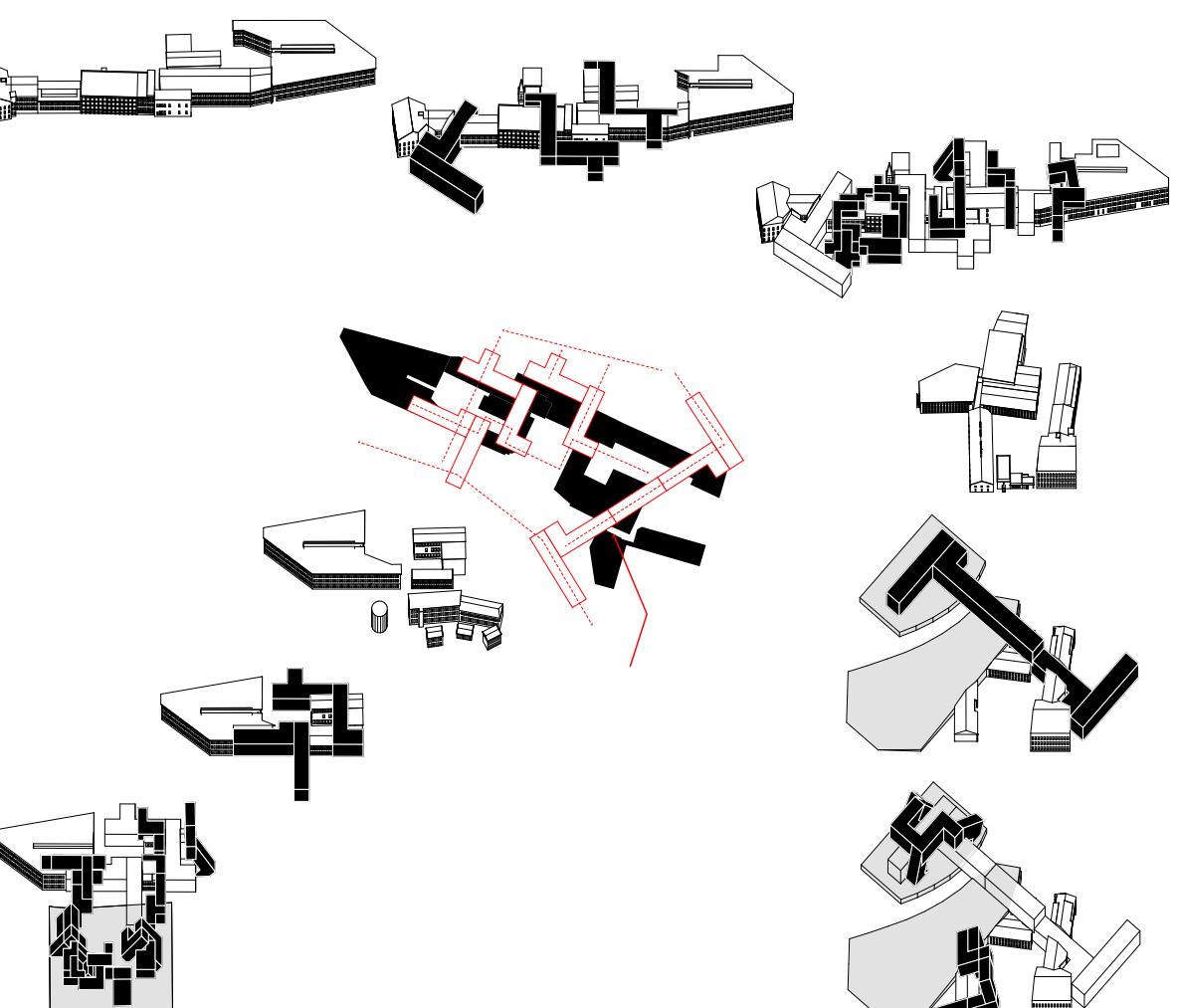


Puzzle Combo

The L shape puzzle piece is composed by the catalog 1 pieces from the whole puzzle. In my puzzle exercise, catalog 1 was used to form a spine representing circulation spaces. And the pieces from other catalogs will be attached to the spine.



Puzzle Renovation



Chunk - Section Detail

04 | Art College

Spring 2021
2GB Design Studio
Instructor : Zeina Koreitem

How should we design a art college today?

Located in the NYU zone of New York City, an art college with three grid systems and three different speed of circulations serve the programs and activities areas of two different programs of students- Undergrads & Grads.

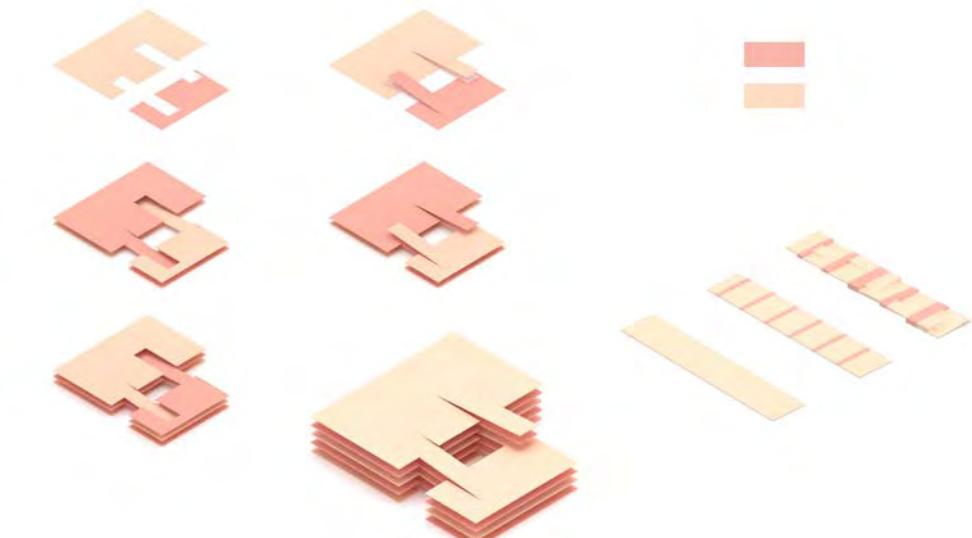
Silver Tower - Serve as student dormitories and connects to all the floors

Main Floors - Two parallel scissor ramps for two programs' students and they are also learning spaces

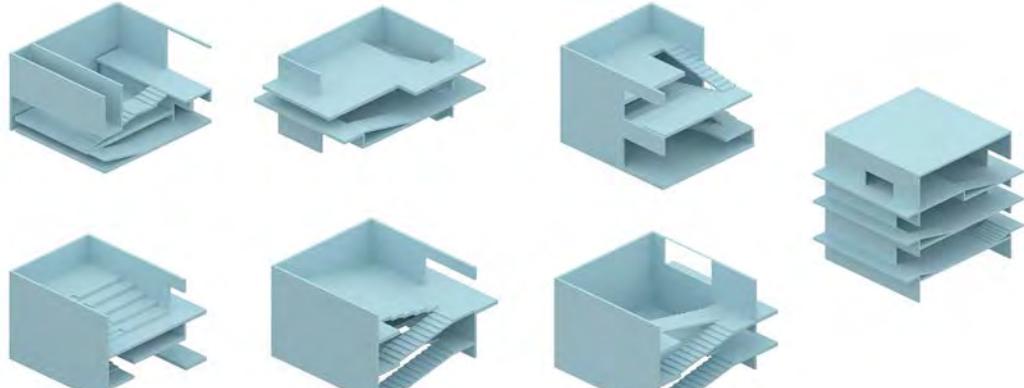
Rooms - Rooms on the facade have their own staircases connected the Undergrads floor and Grads floor. There are always public use room between two studio spaces and they share the circulations.



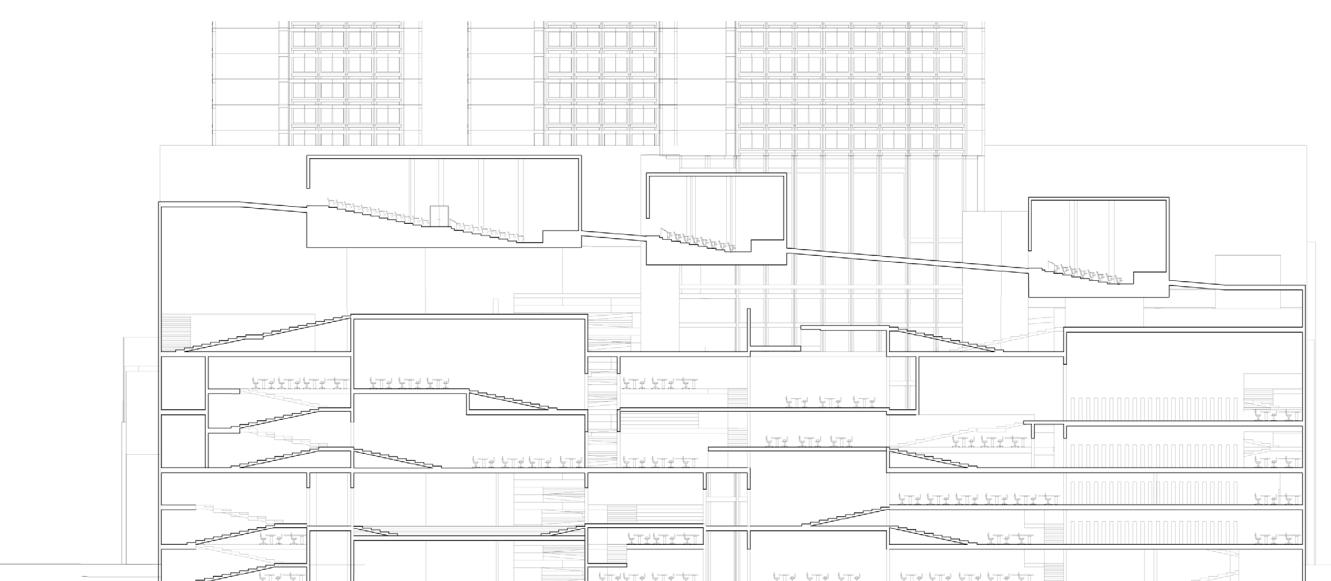
Silver Tower vs Plinth



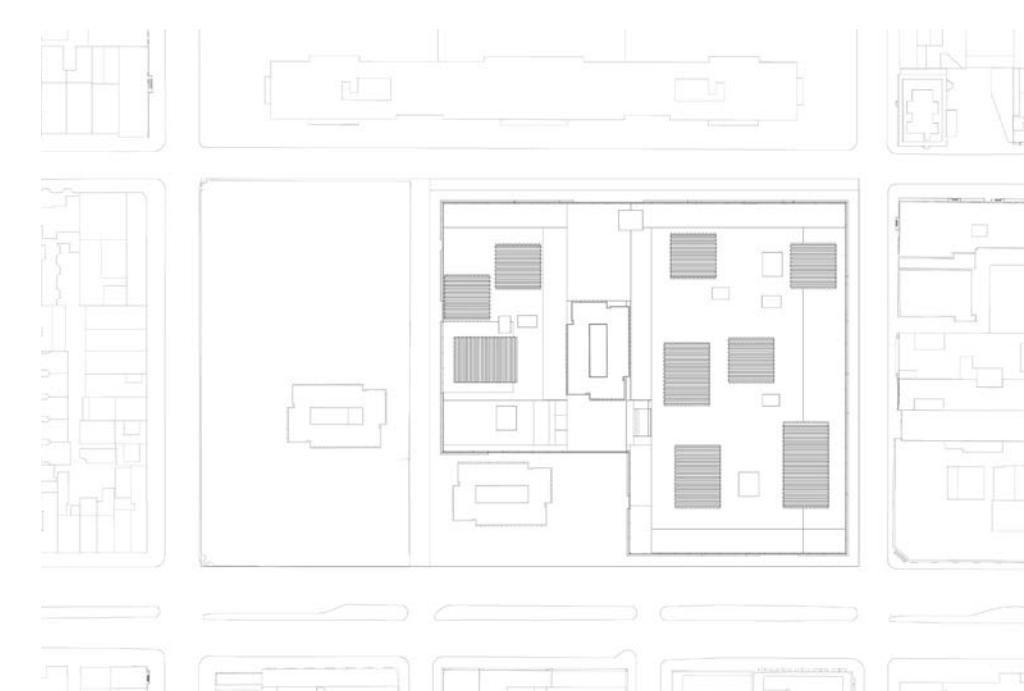
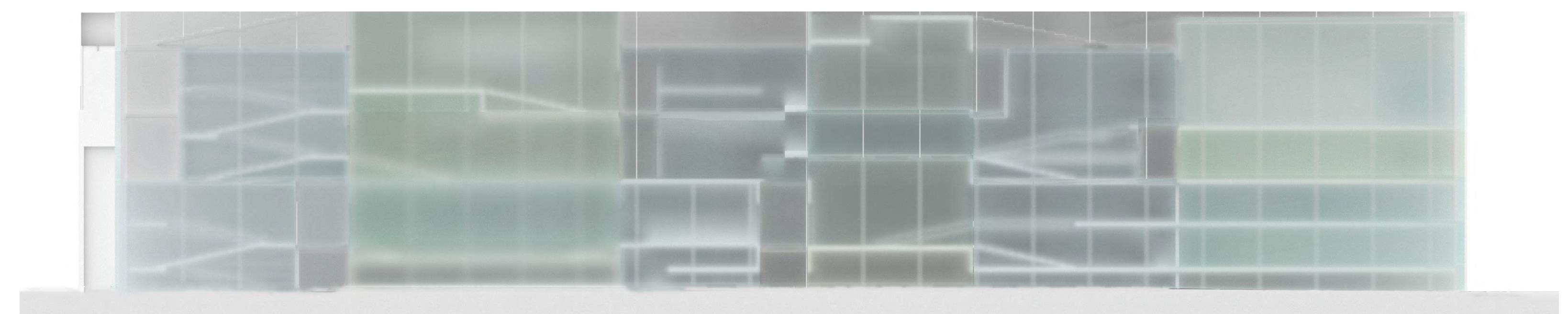
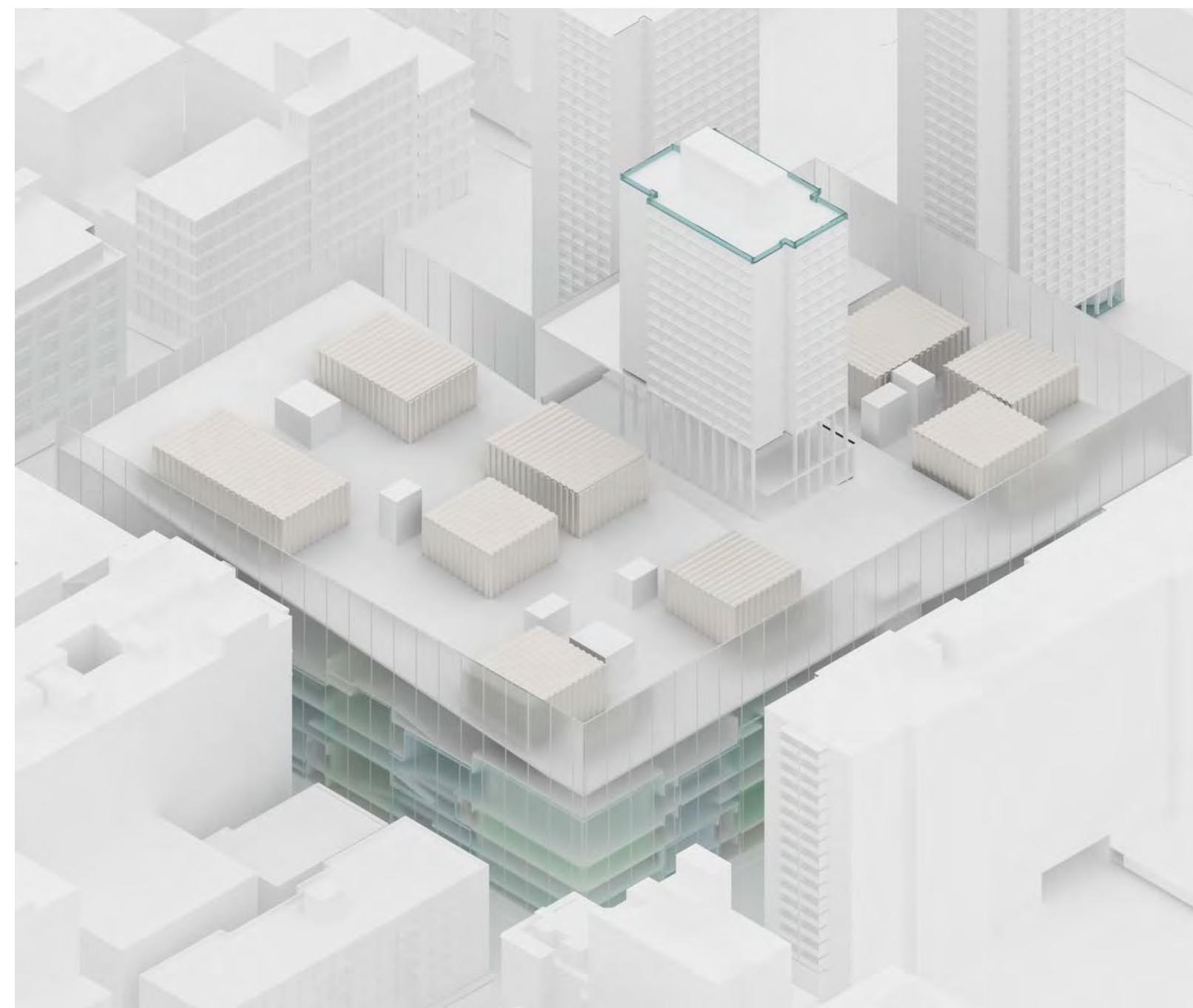
Scissor Staircases



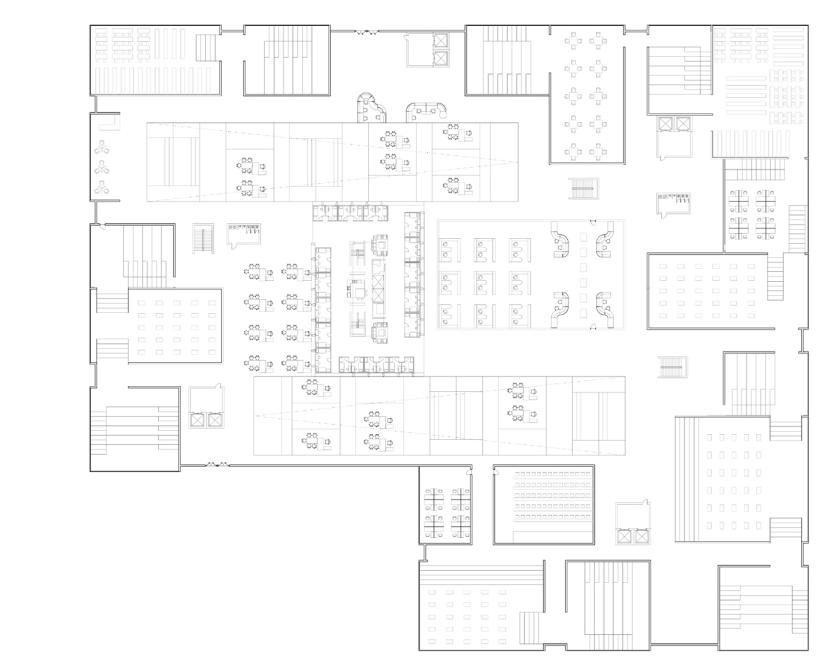
Rooms



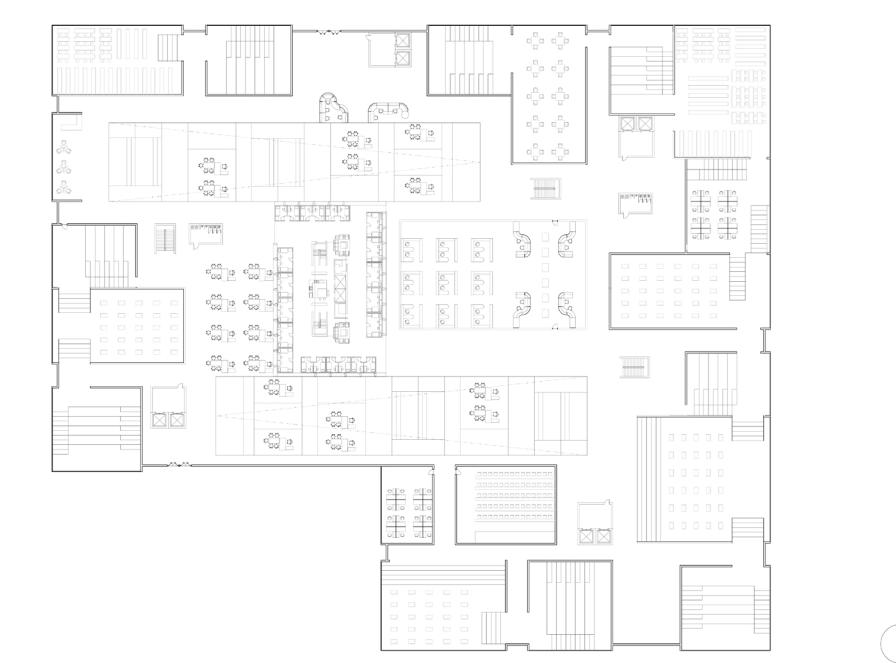
Section 1:500



Site Plan 1:1000



Atypical Plan 1:500



Typical Plan 1:500

05 | Forest Divisions

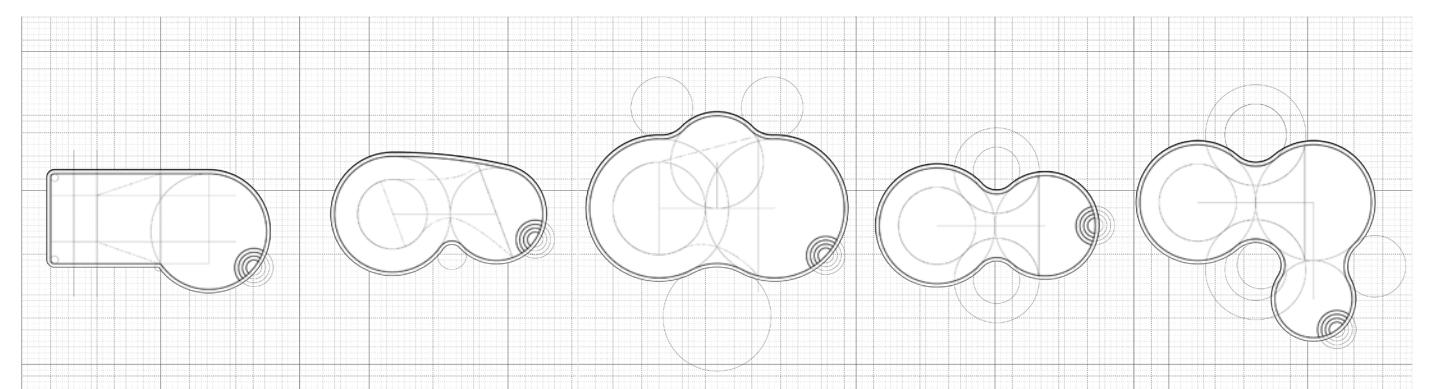
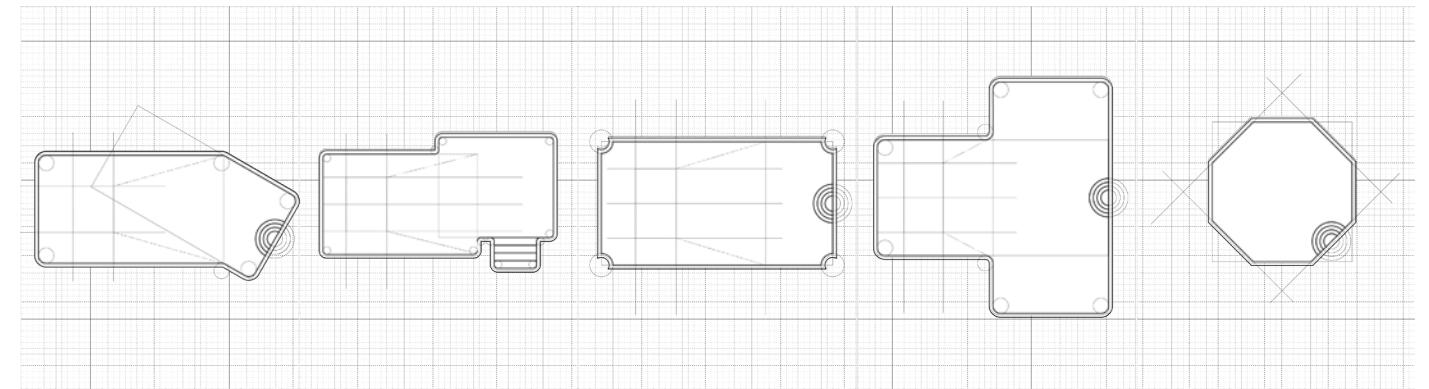
Fall 2019

1GB Design Studio

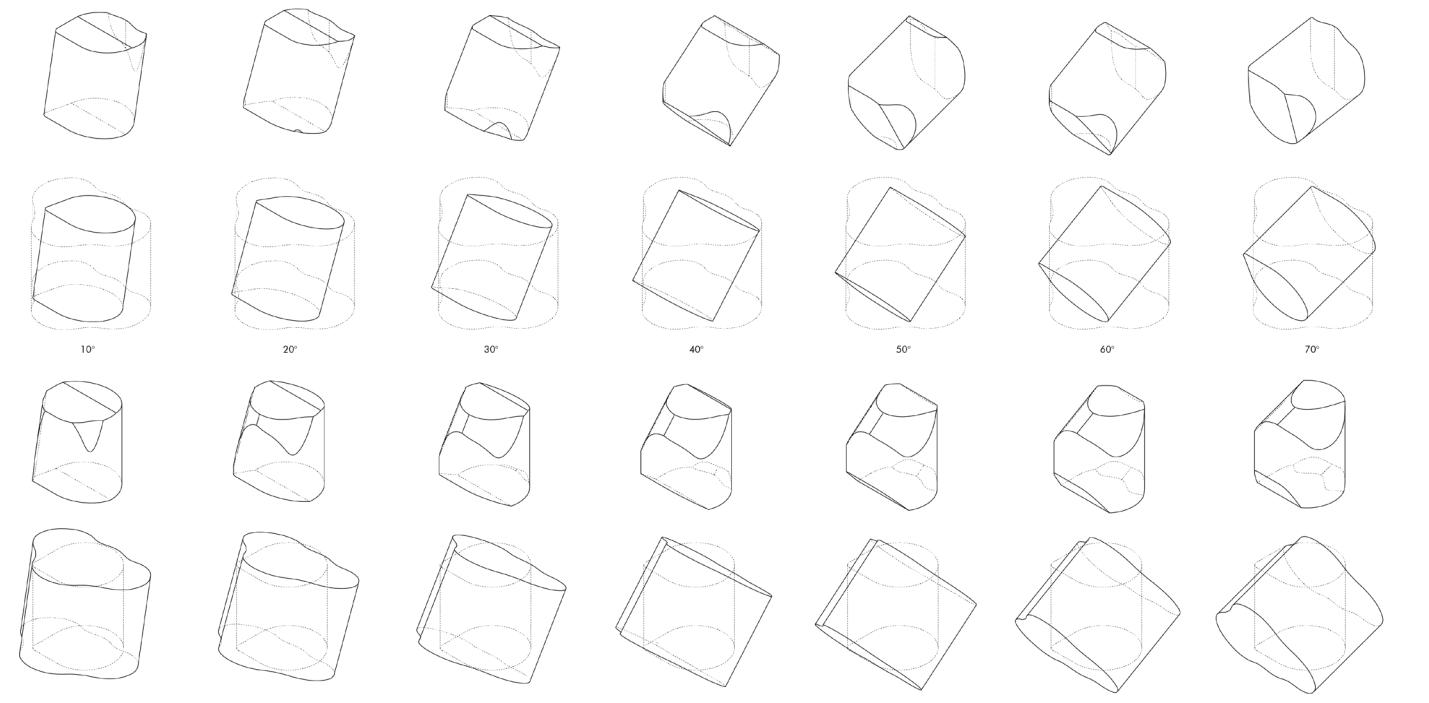
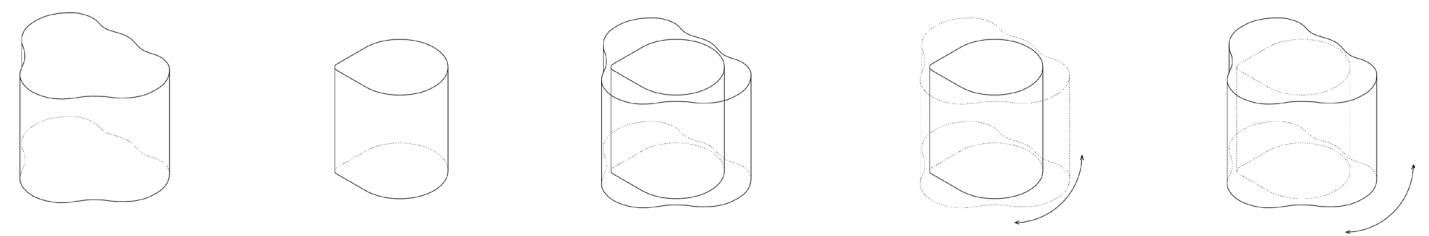
Instructor : Matthew Au

What would a Bathhouse look like now?

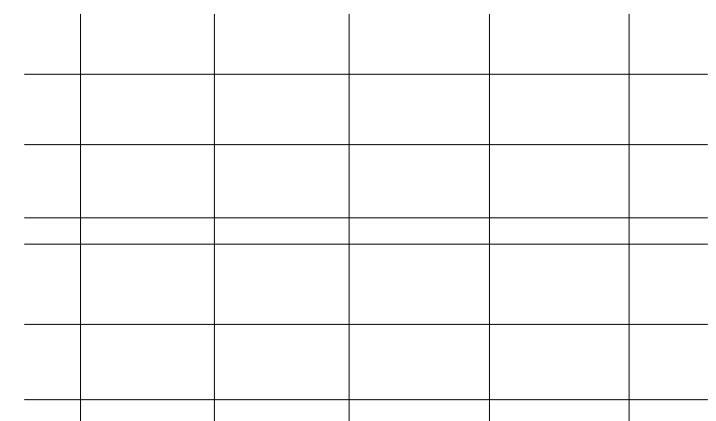
Based on the studies on swimming pool profiles, the extrusions of sectional experiences combined to create a special stone-like form. Based on the studies of precedent Fin garden Bathhouse in Iran, the water network and space arrangement are learned and redesign in vertical stacking.



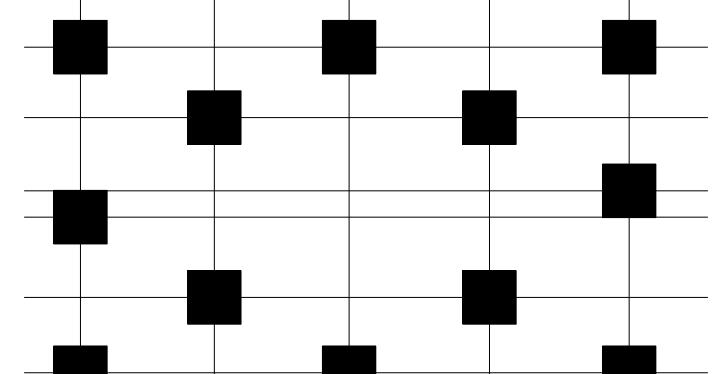
Swimming Pool Profile Study



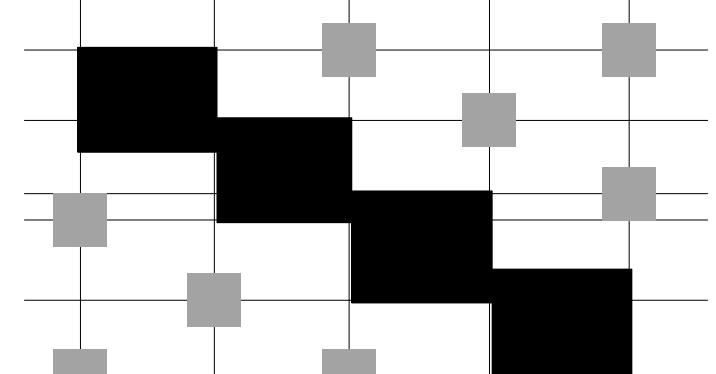
Hotel Rooms Generations



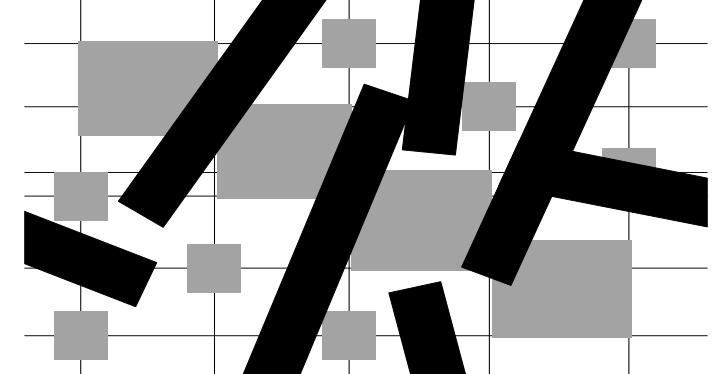
San Francisco Urban Grid



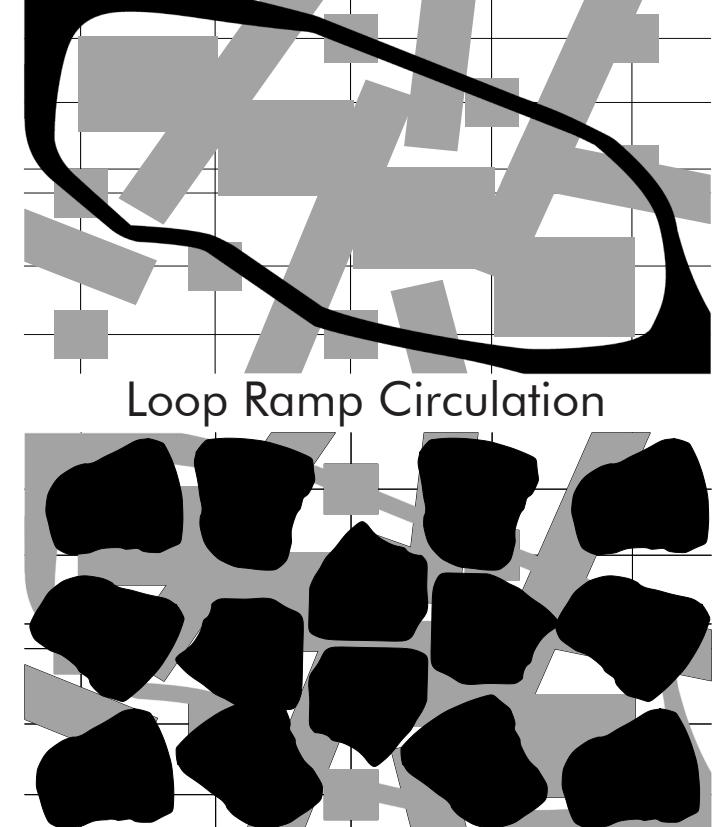
Small Pools (Intersection of Water Route)



Large Pools Along with the slope of the site

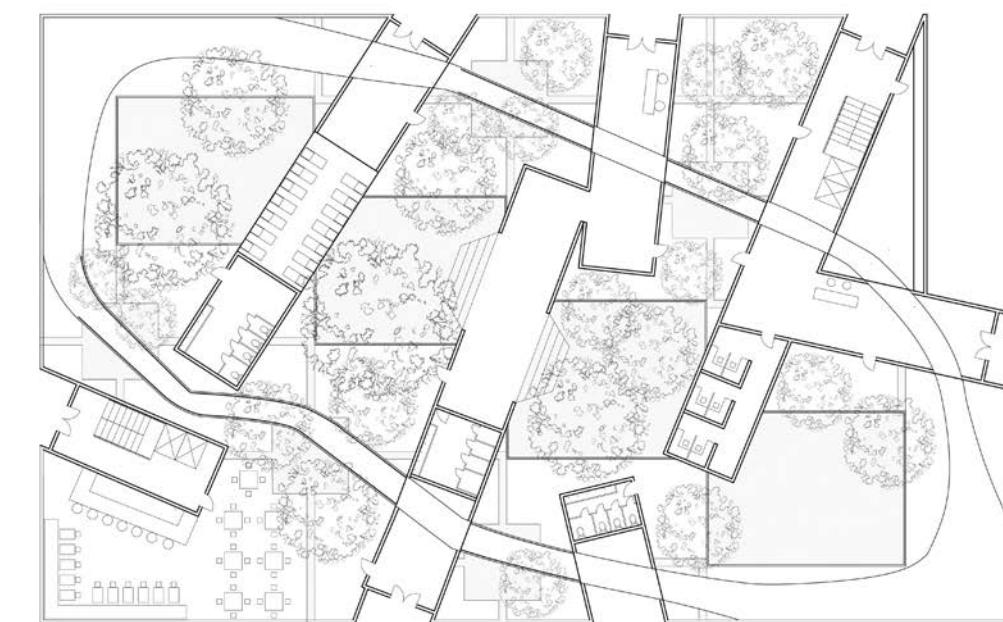


Puncture Walls (Support and Rooms)

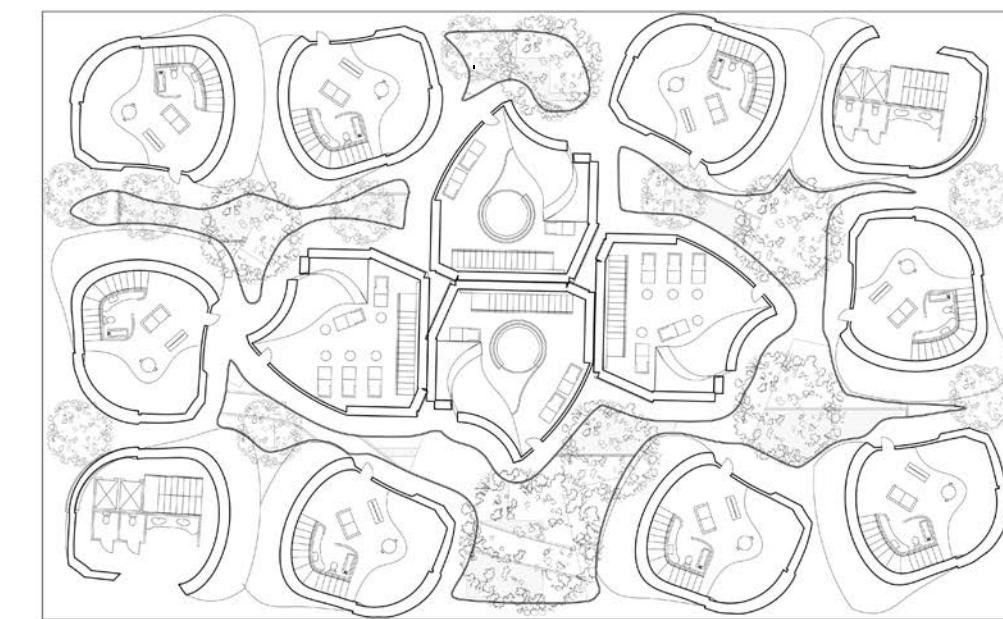


Loop Ramp Circulation

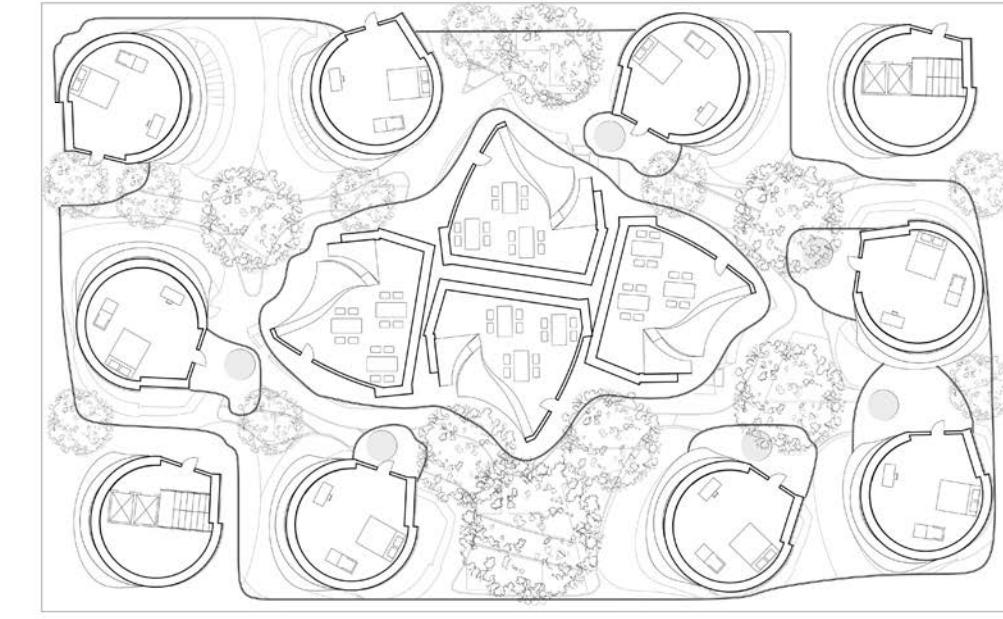
Hotel Rooms



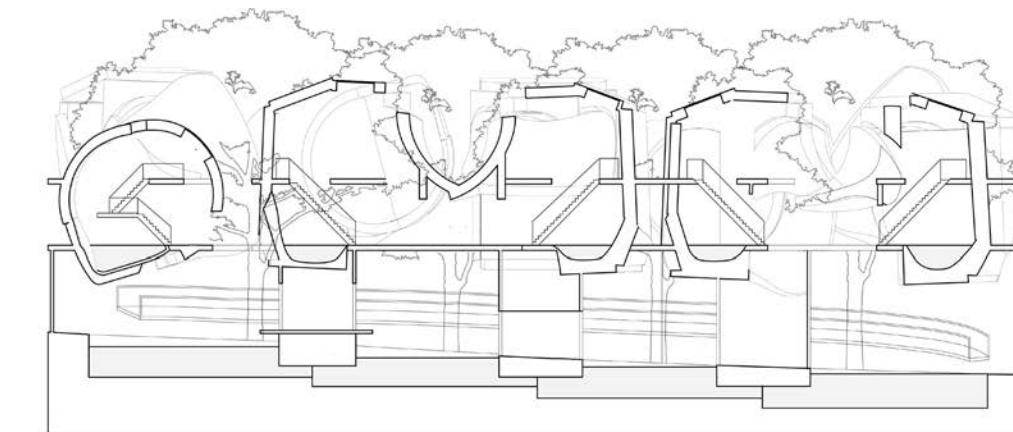
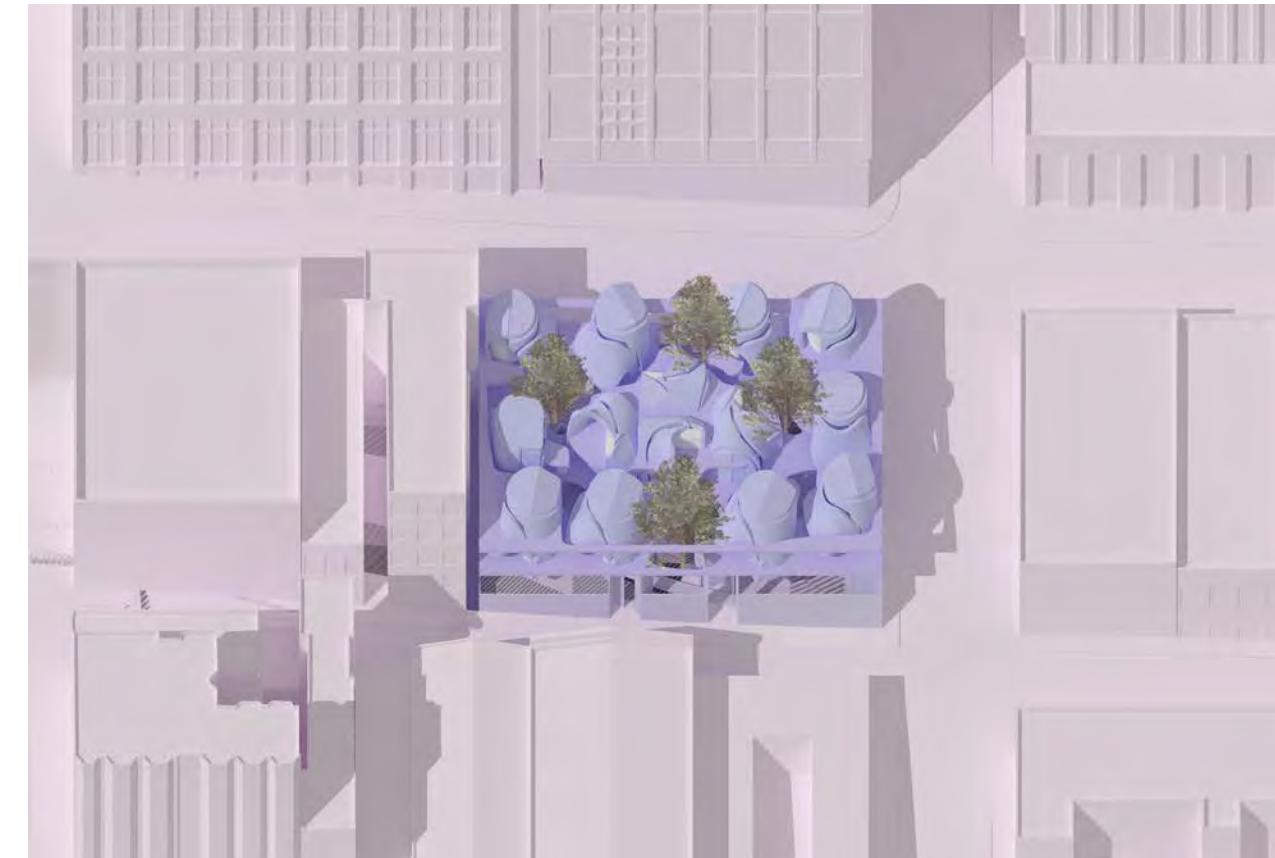
First Floor Plan



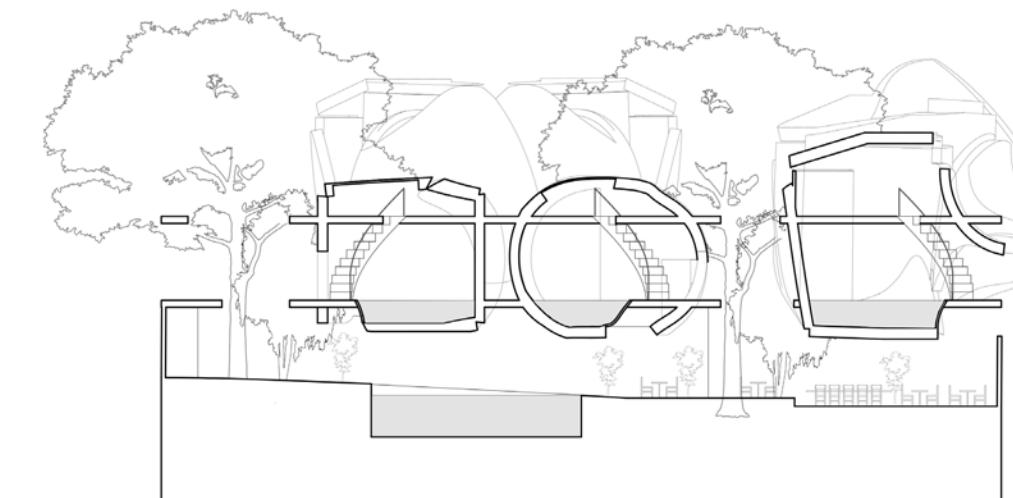
Second Floor Plan



Third Floor Plan



Long Section



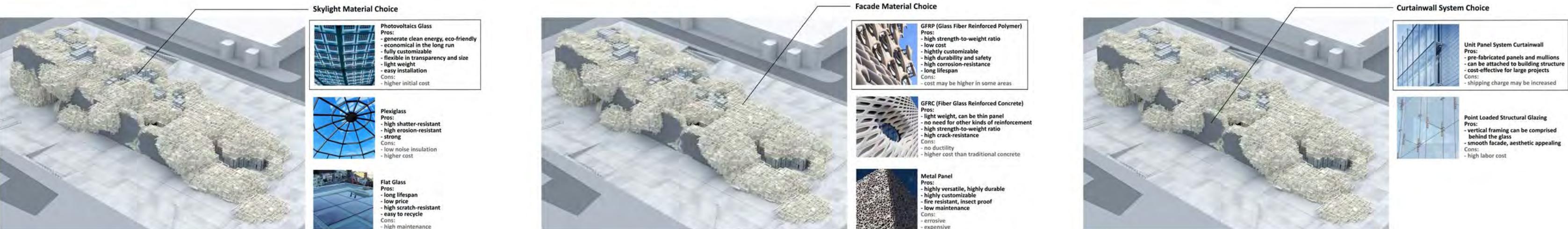
Short Section

06 | Vitra Campus

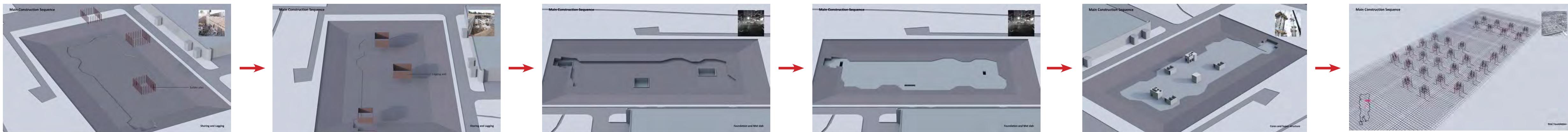
Spring 2021
Design Development

Instructor : Herwig Baumgartner, Scott Uriu
Group : Yujia Fang, Jingyi Pan, Shuang Feng, Tianze Wu, Christopher Pennino, Kazuaki Kojima, Jiyun Kim

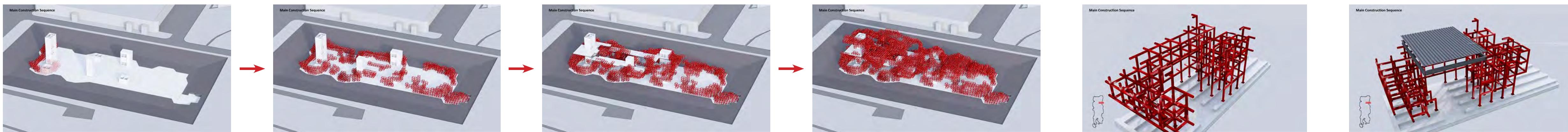
Material Selections



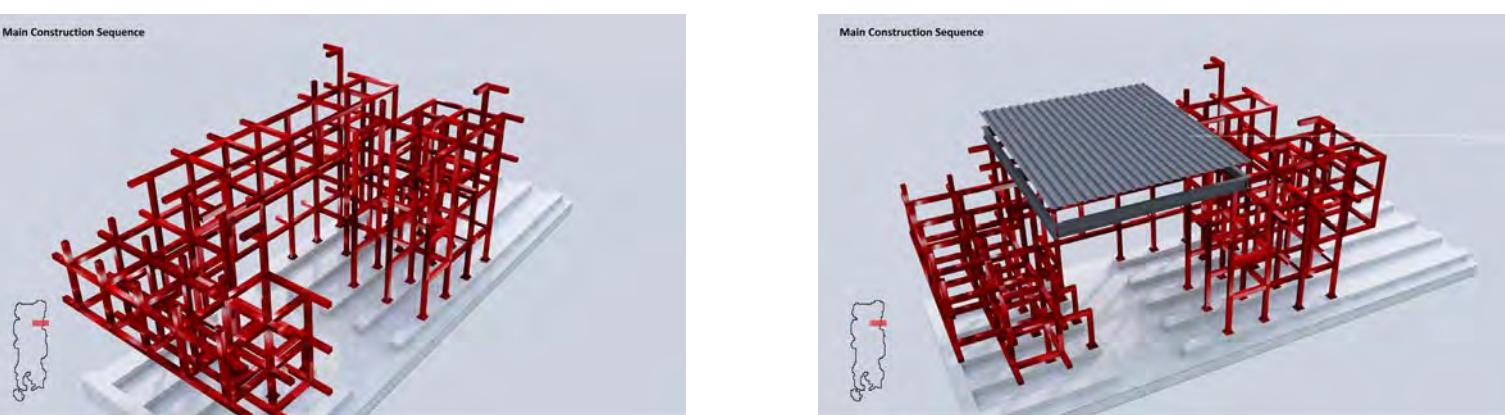
Foundation Sequence



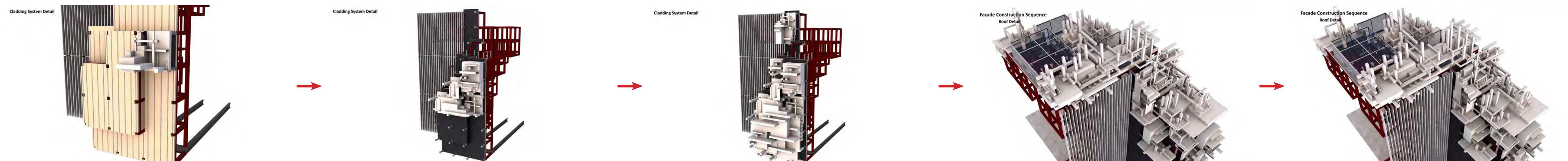
Structure Sequence



Structure Details



Pixel Facade Details



06 | Vitra Campus

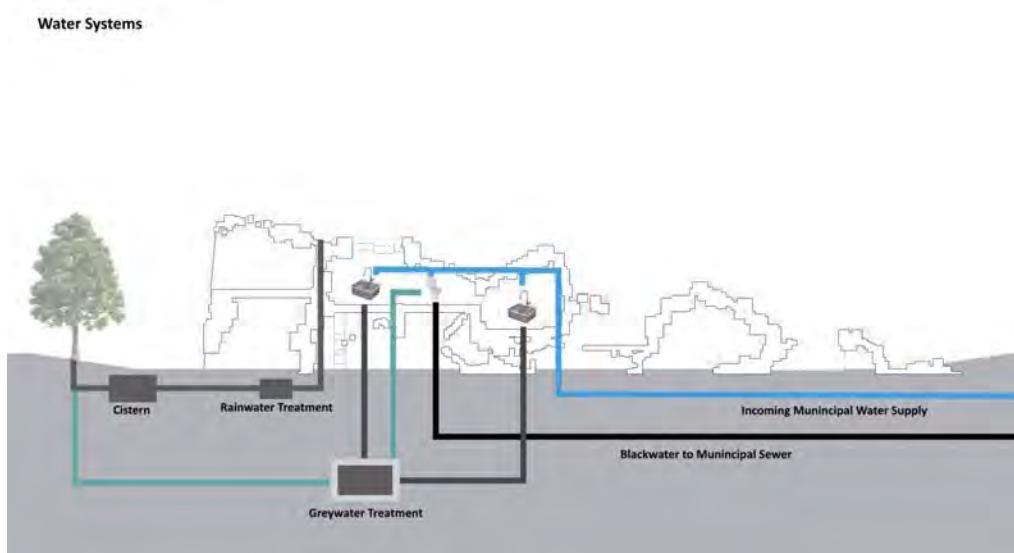
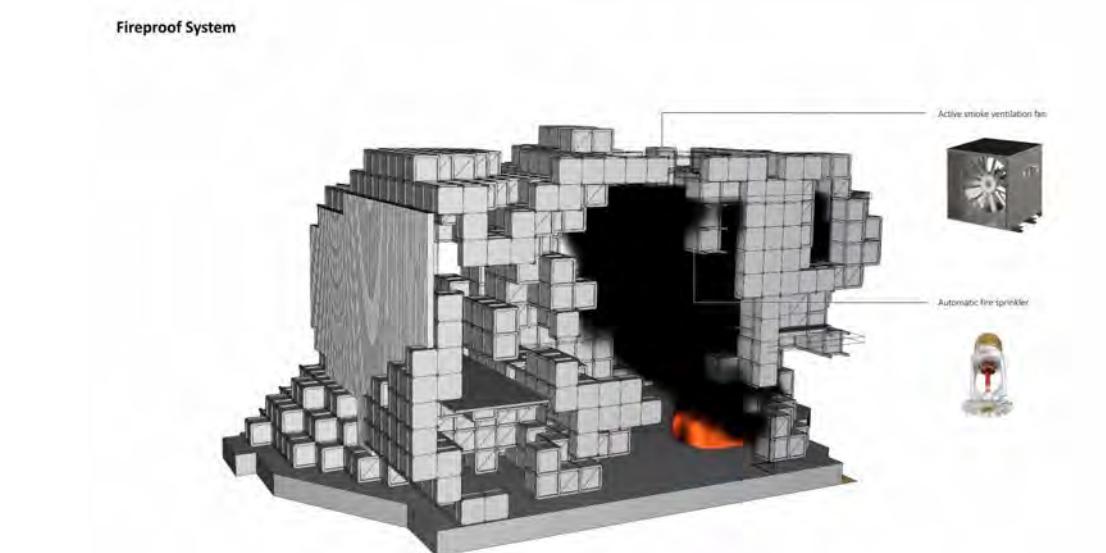
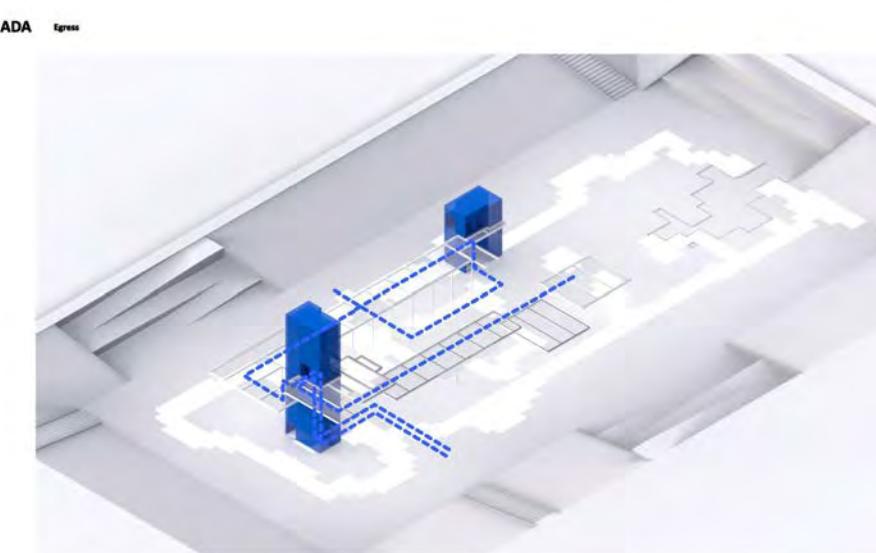
Spring 2021

Design Development

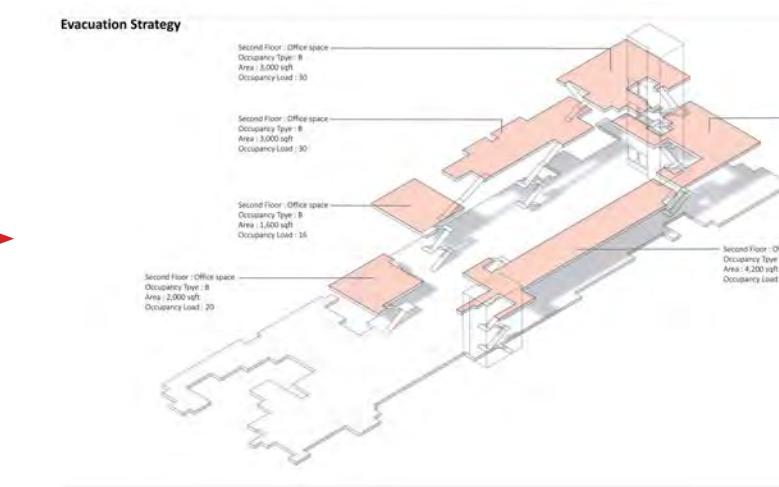
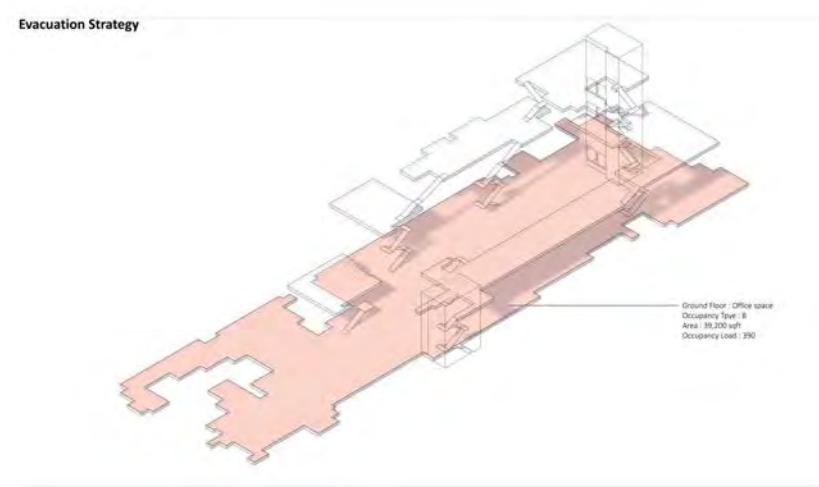
Instructor : Herwig Baumgartner, Scott Uriu

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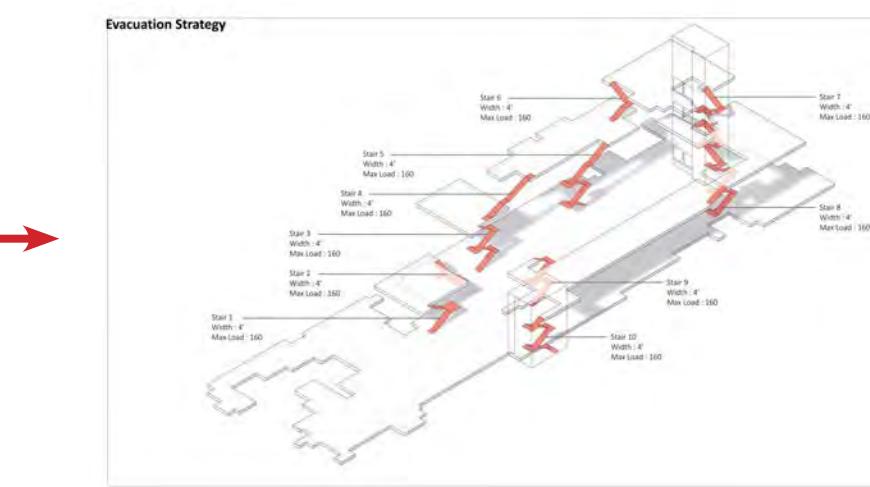
Pennino, Kazuaki Kojima, Jiyun Kim



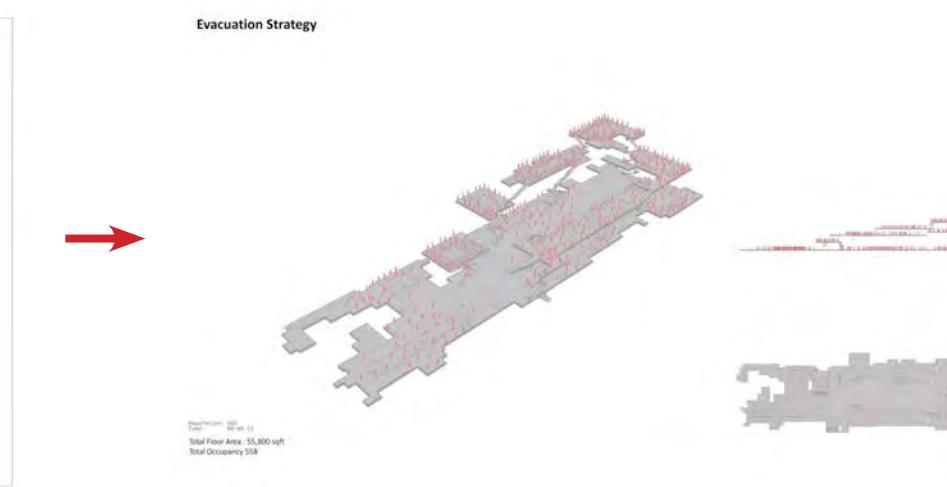
Evacuation Strategy



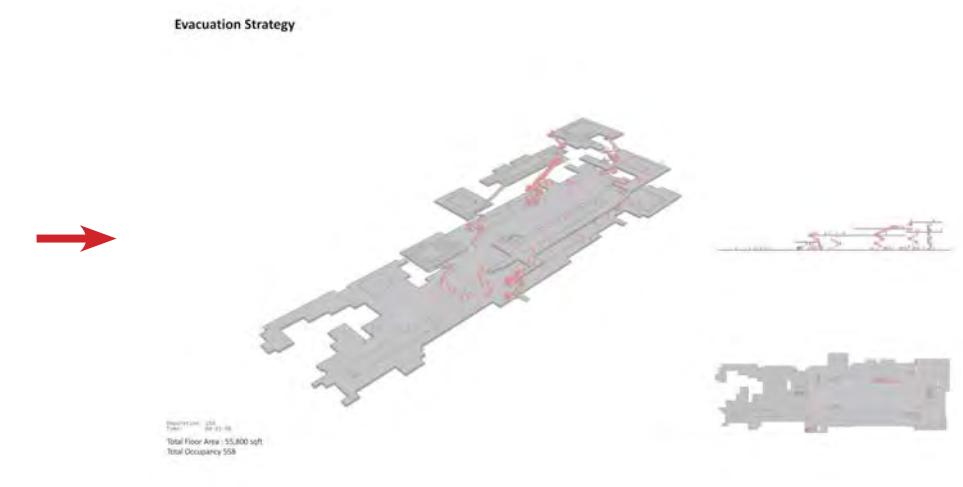
Egress



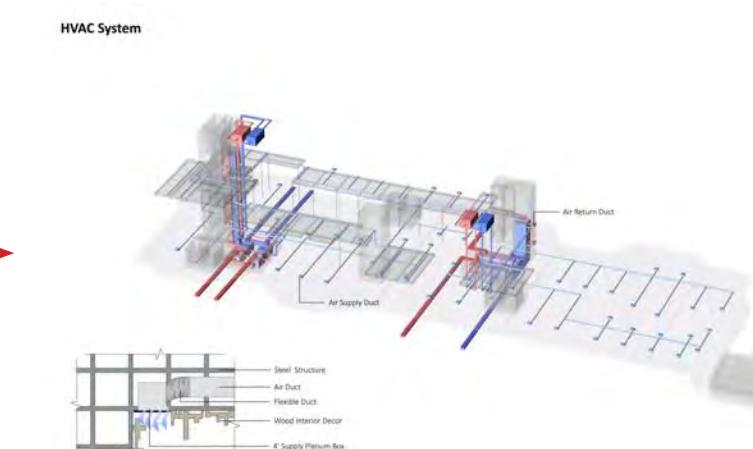
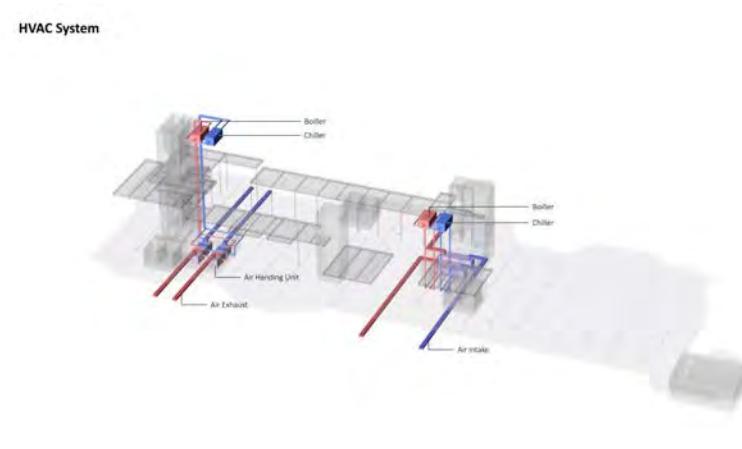
Fireproof System



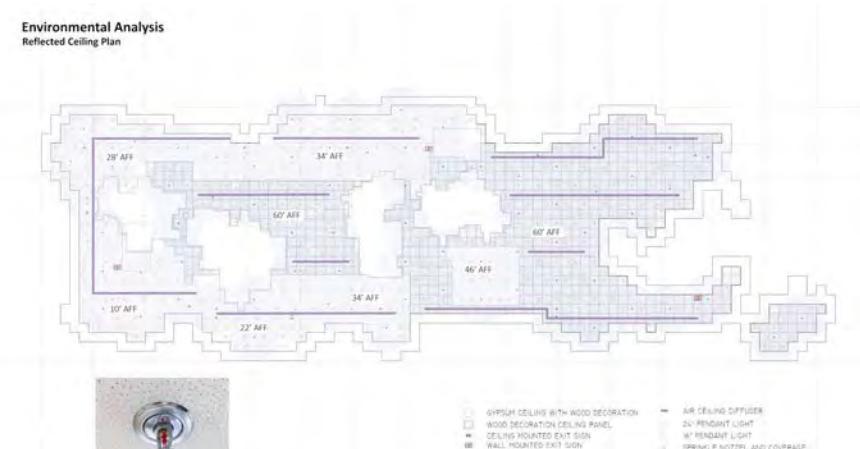
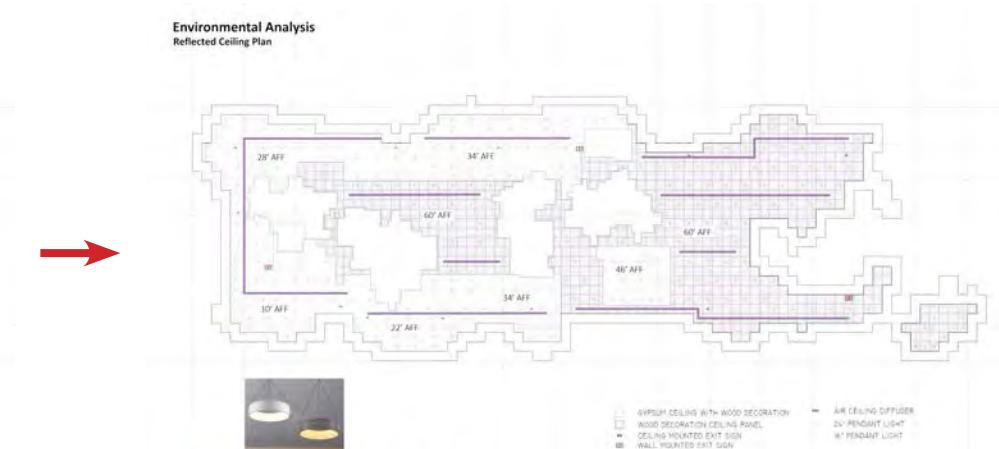
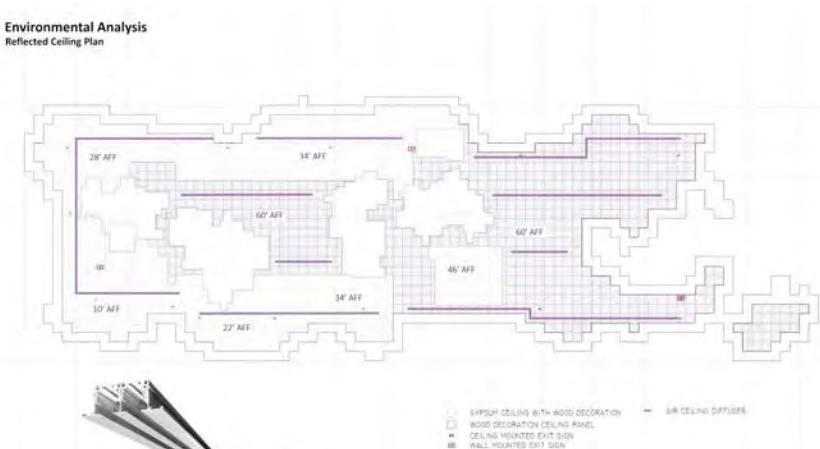
Water Systems



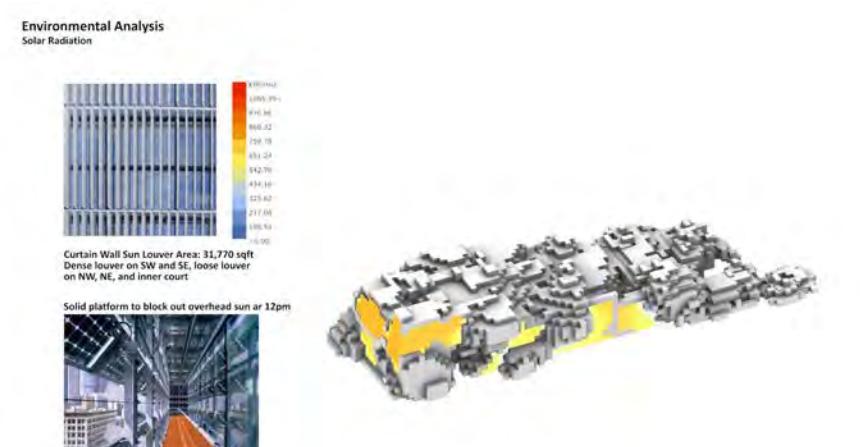
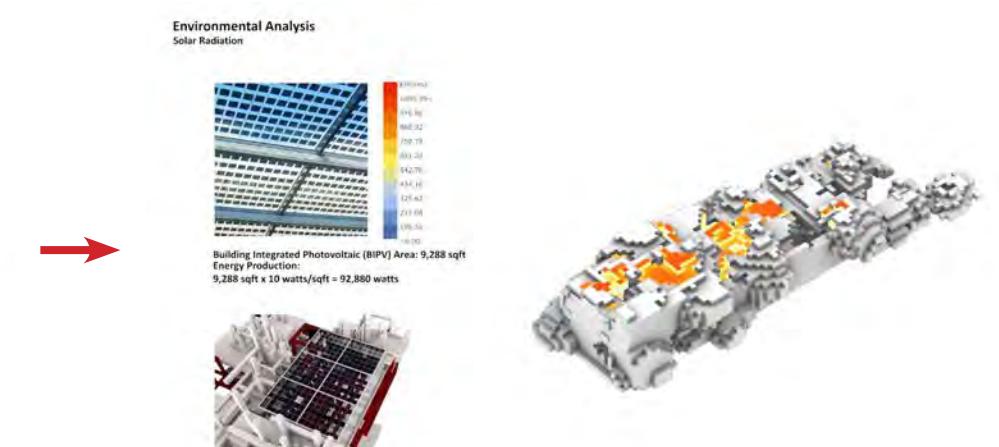
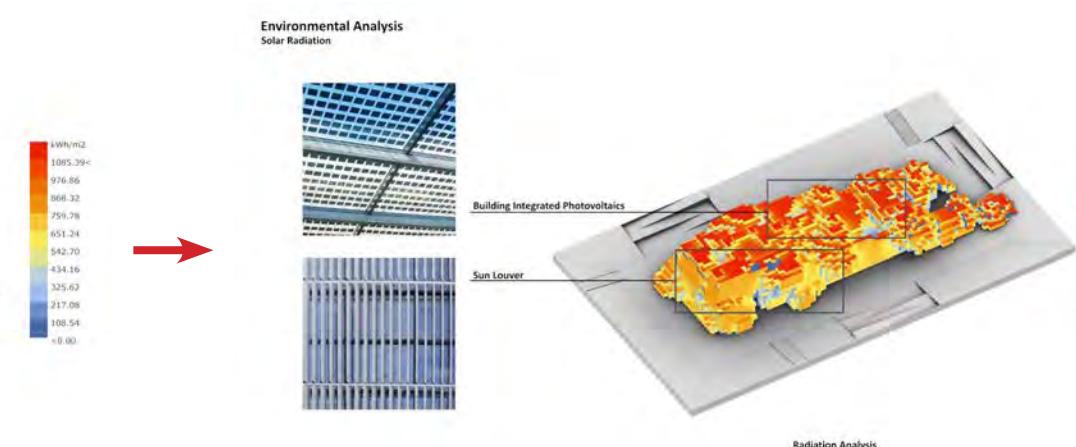
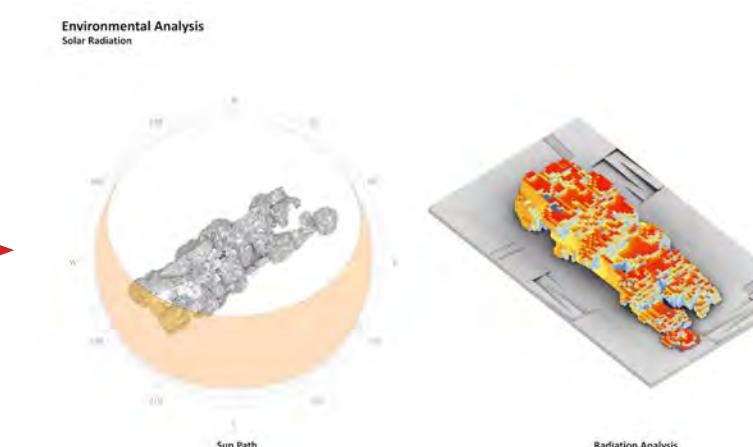
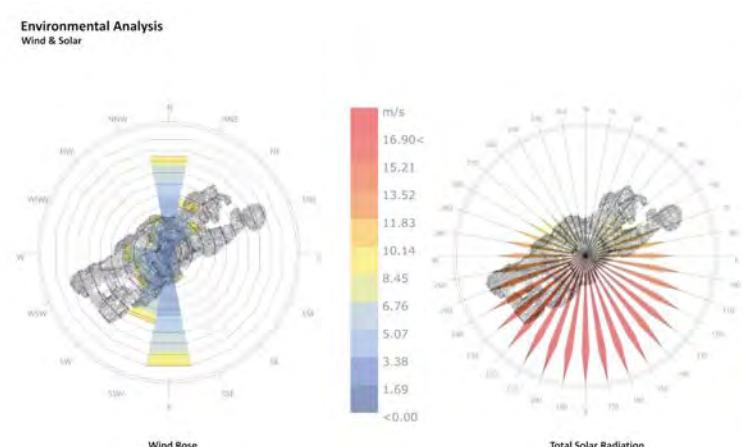
HVAC System



Reflected Ceiling Plan



Wind & Solar



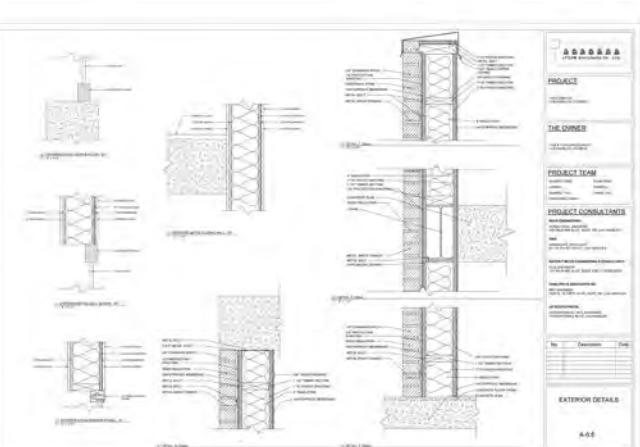
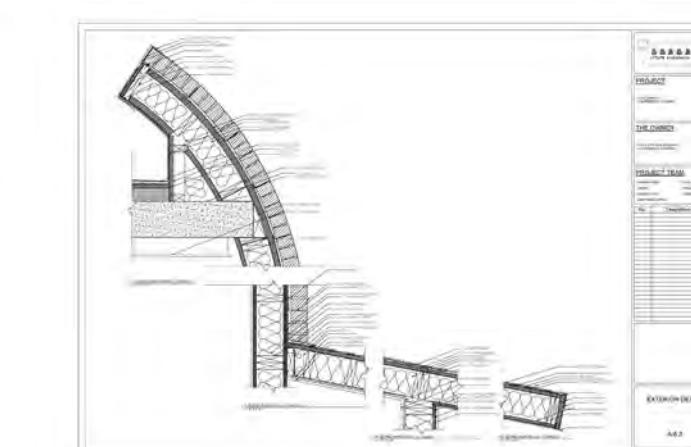
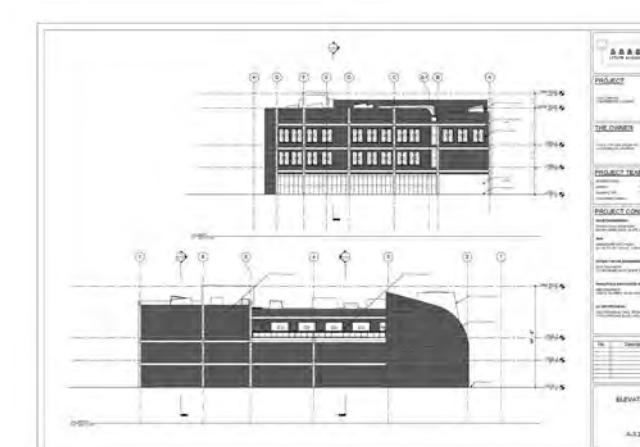
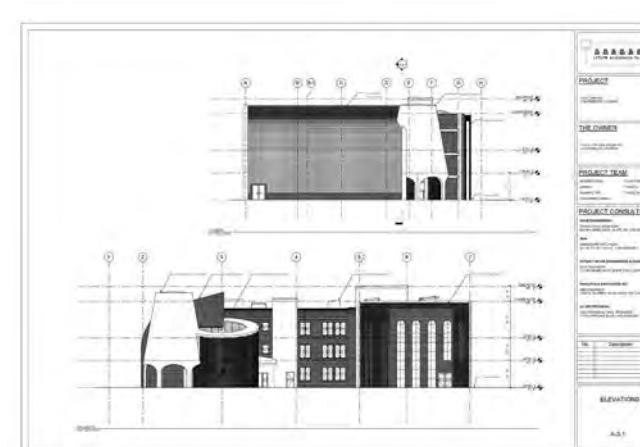
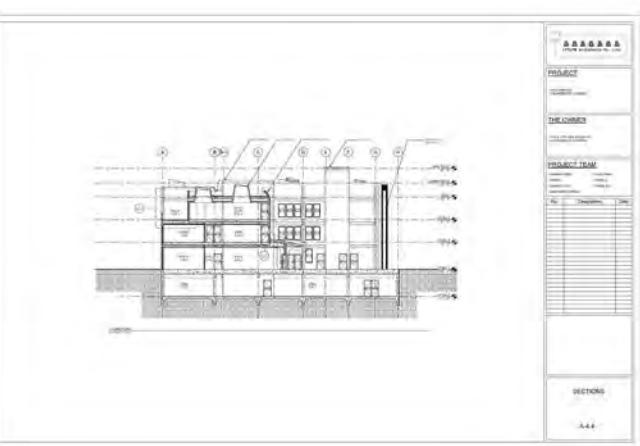
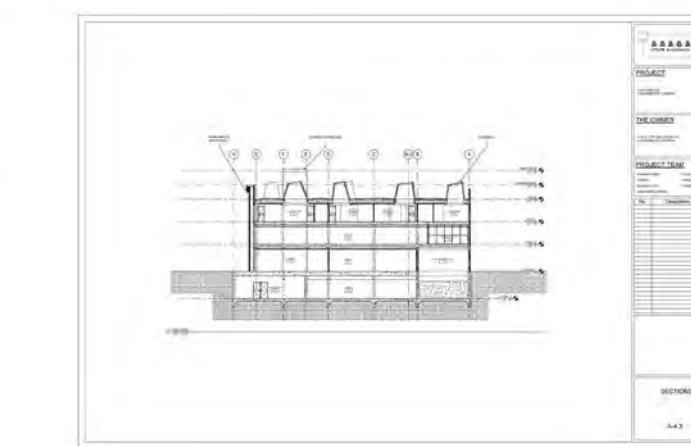
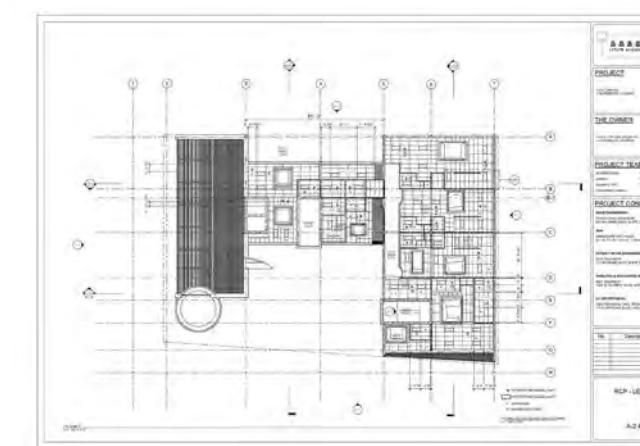
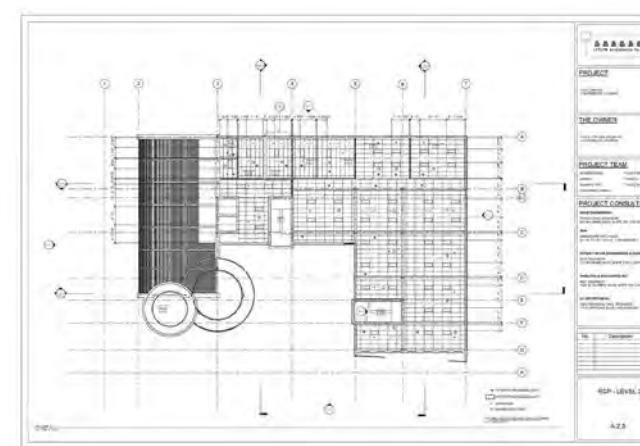
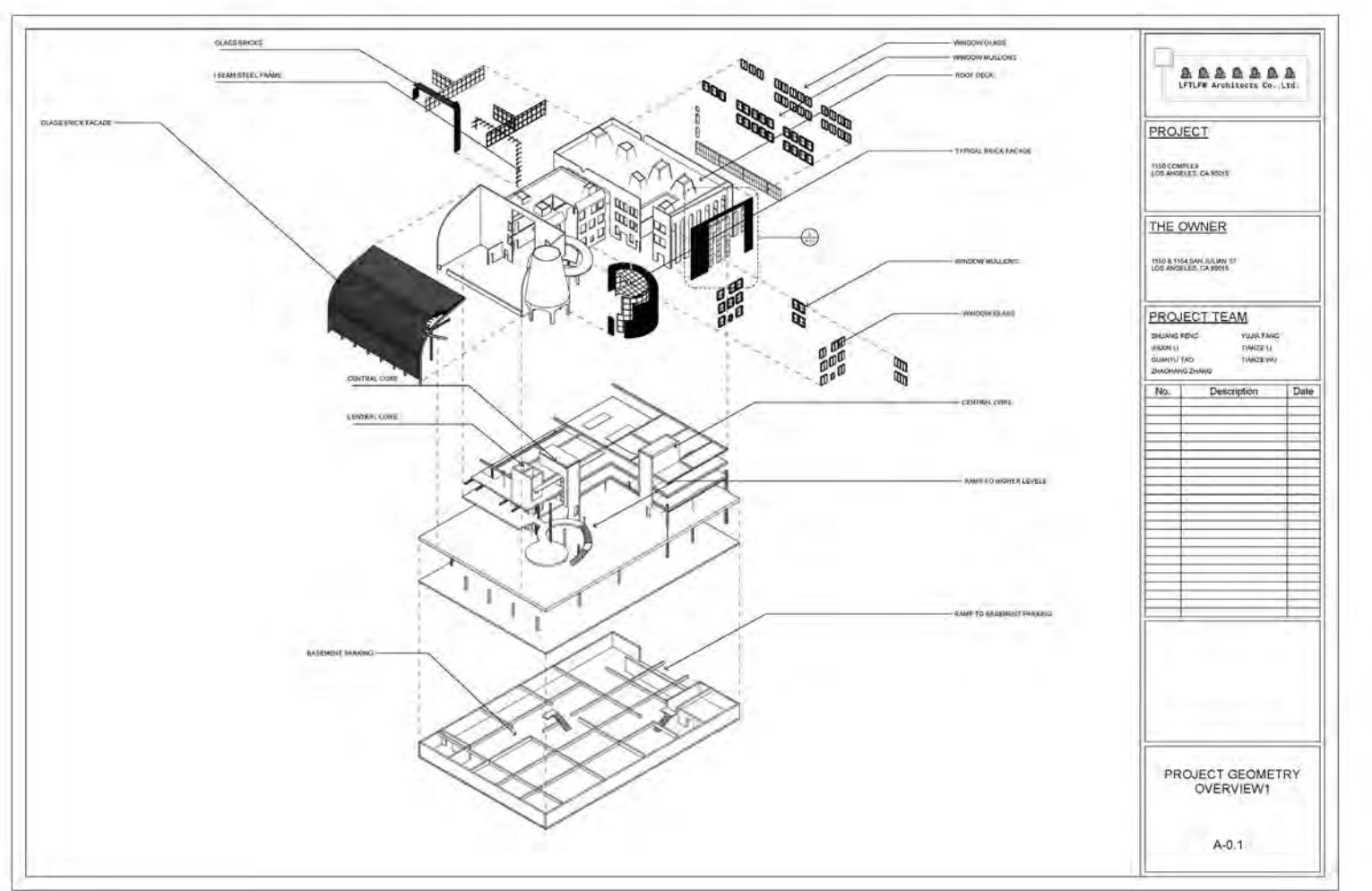
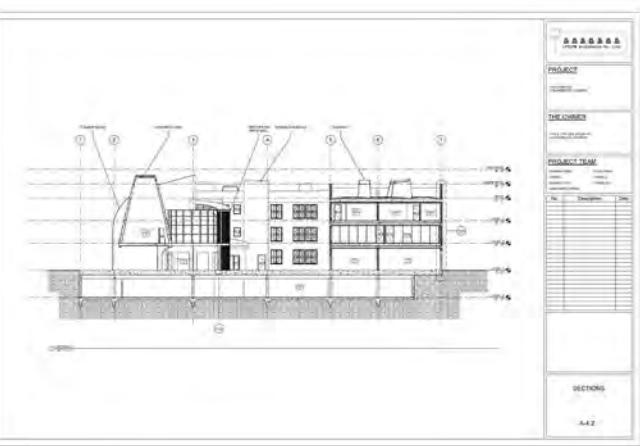
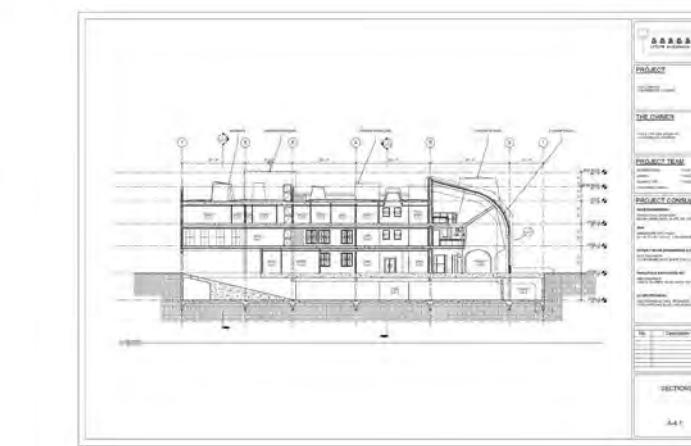
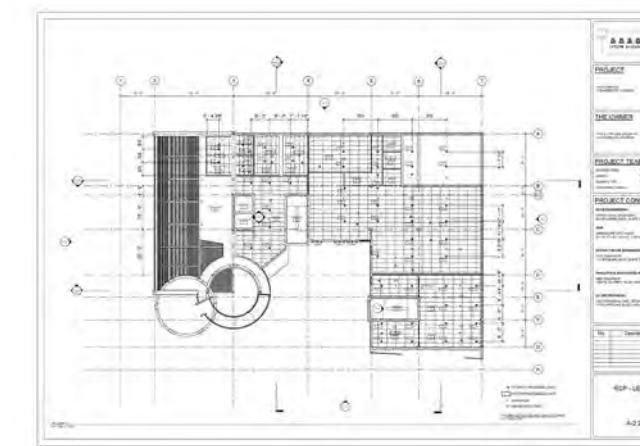
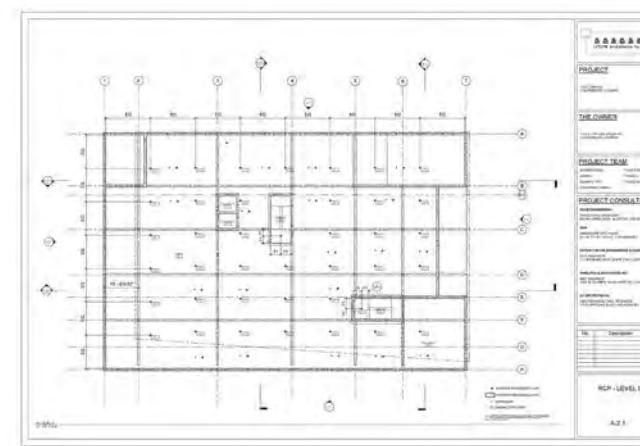
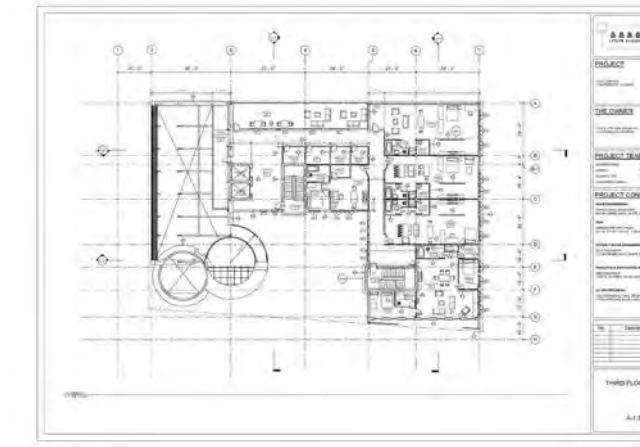
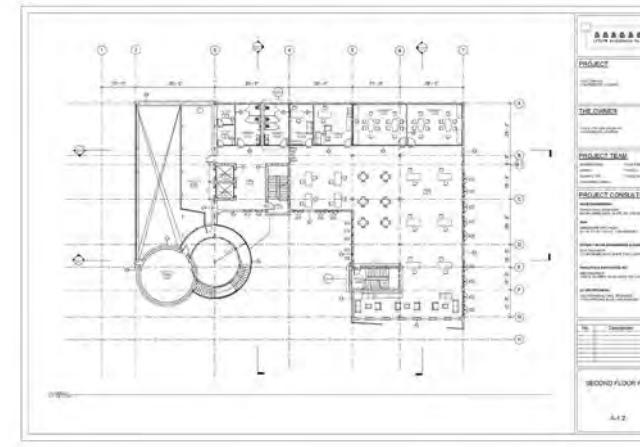
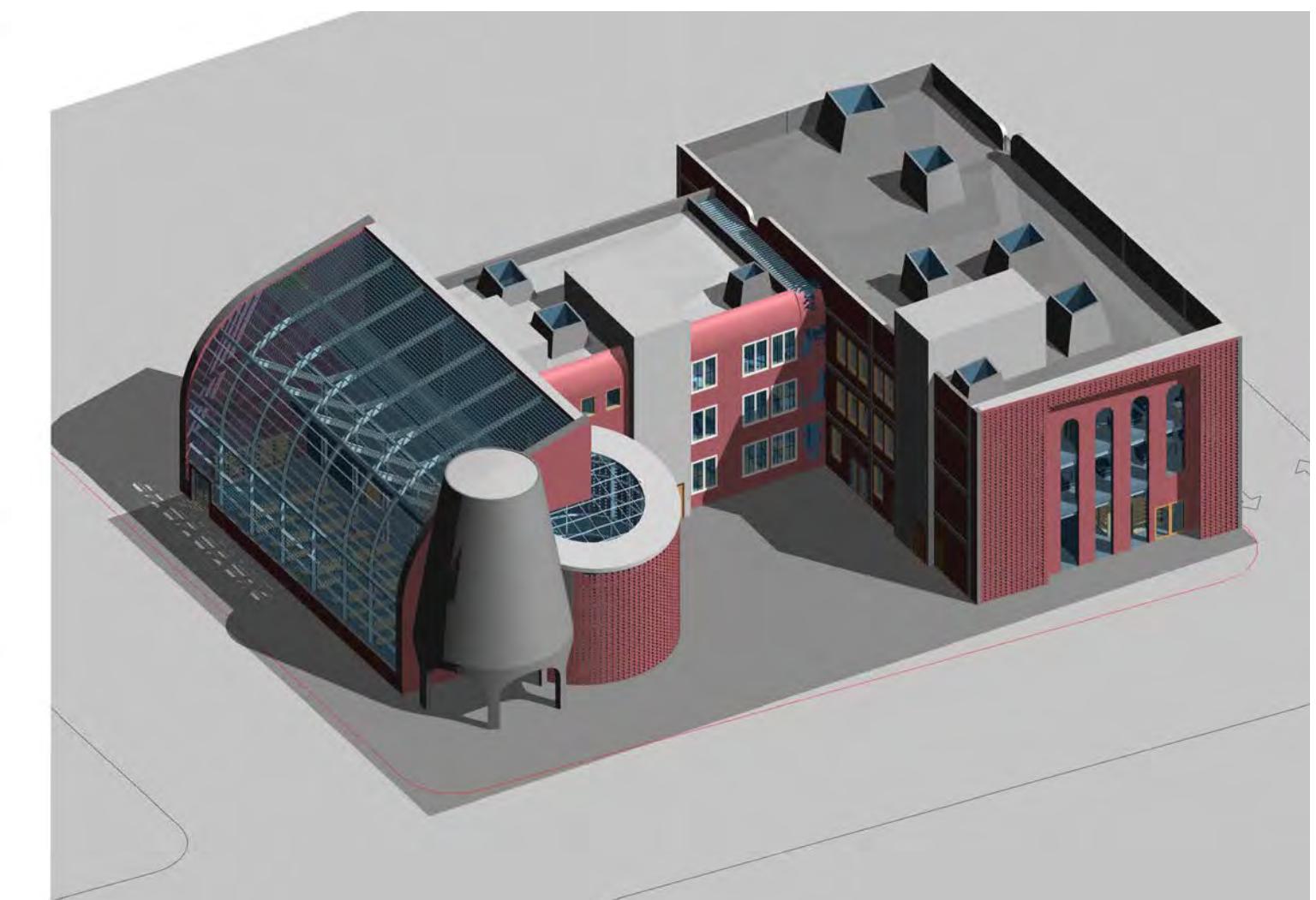
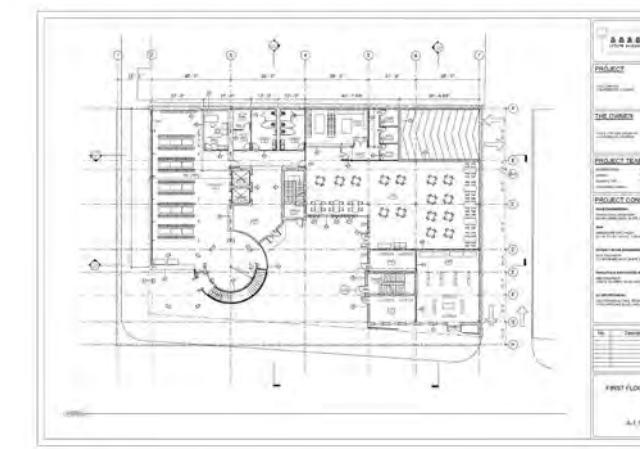
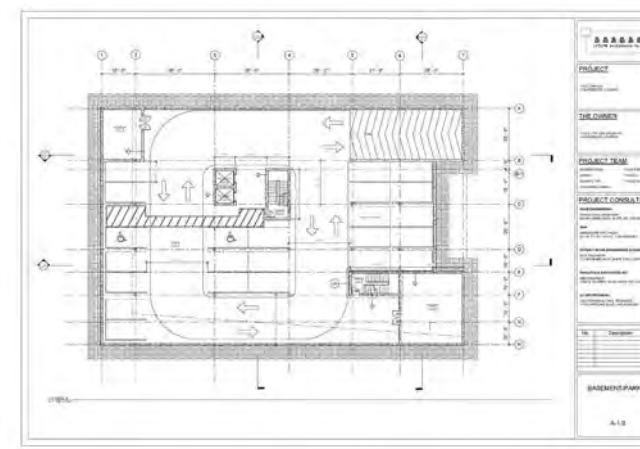
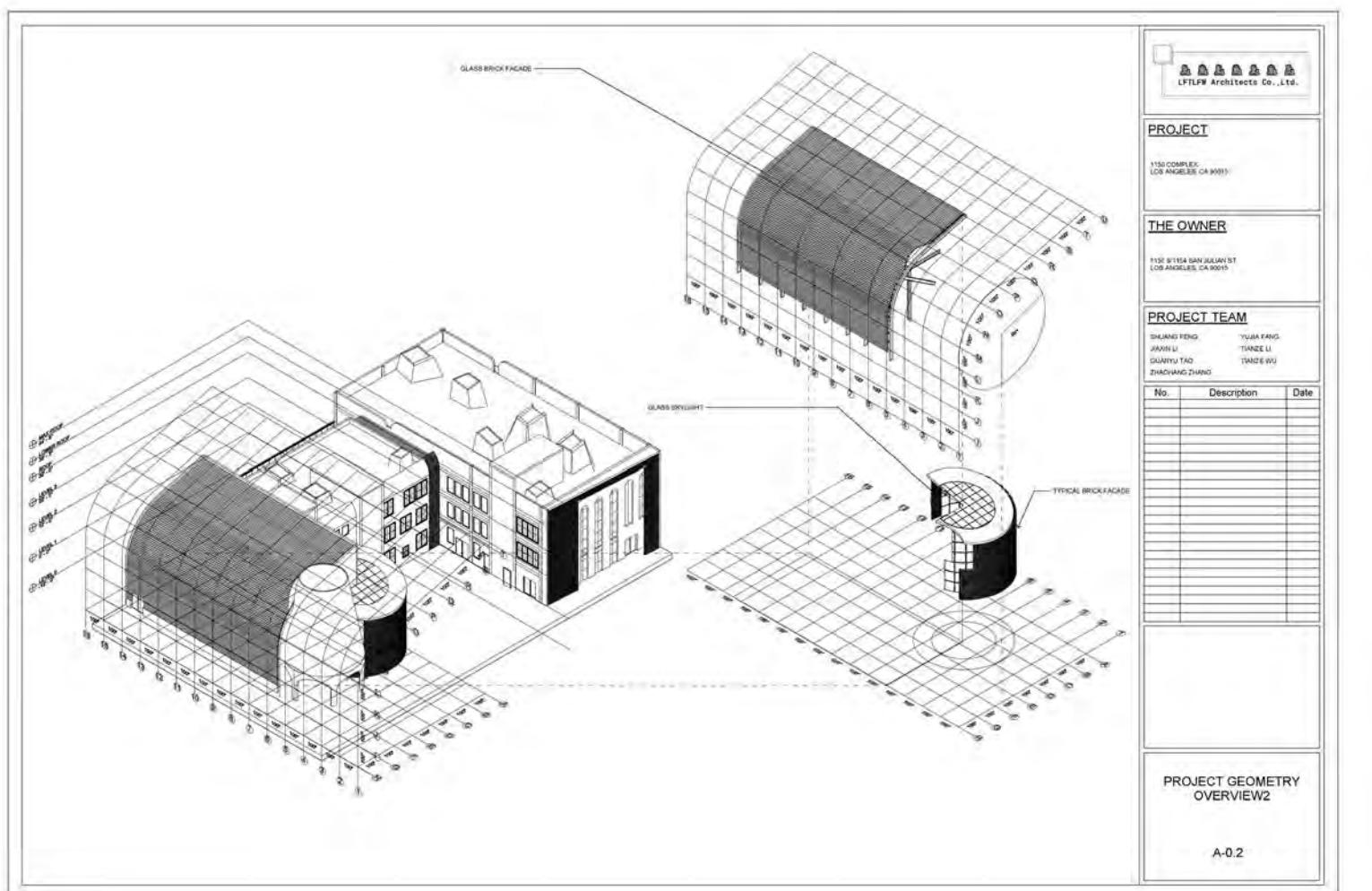
07 | Mini Commercial Complex

Fall 2022

Construction Documents

Instructor : Pavel Getov, Kerenza Harris

Group : Yujia Fang, Tianze Li, Shuang Feng, Tianze Wu, Guanyu Tao, Jixin Li, Zhaohang Zhang



Arc Interventions | Yujia Fang

Southern California Institute of Architecture
Master of Architecture 1
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