

#### Design Intern for Project: University of Nebraska Lincoln Architecture Studio Addition. -Schematic Design drawing set; budget progress (partial), early design development (partial). -Digital 3D modeling on iterations based on changes of materials, lighting conditions, and budget. Pei Cobb Freed & Partners, New York, NY, July 2021-September 2021, December 2021-January 2022 Design Intern for Project: NEOM Competition: The Line Project Across Saudi Arabia -Schemetic design round drawing set, editting of RFPs. -Physical and digital 3D modeling and renderings. -Biennale Exhibition: Preparation of digital fabrication model package for clients. Cooper Union Summer Introduction to Architecture Program, New York, NY, June 2021- July 2021 -Guidance on technical skills 3D modeling software: Rhino, Ai, Blender. -Present lectures on architecture precedents and design concepts. -Provide portfolio guidance. Venice Biennale "Venice Masked", New York, NY, April 2021 -Website: https://www.venicemasked.org/catalogue -3D scanning and modeling Cooper Union Saturday Program, New York, NY, October 2020- 2022 Instructor - Introduce fundamentals of architecture to highschool students - Instruct methods of physical modeling and representations Cooper Union Teaching Assistant, New York, NY, 2020 Photography Teaching Assistant for Erieta Attali -Assist public lectures with associated courses -Course Preparation The Benjamin Menschel Fellowship Exhibition, Self Organized, New York, NY, 2023 **EXHIBITION** 2022 Tallinn Architecture Biennale, Group Organized, Estonian Museum of Architecture, Tallinn, Estonia, 2022 Diriyah Biennale: The Line Exhibition, Client Organized, Foundation for Contemporary Art, Diriyah's JAX district, 2022-2023 MoMA Exhibition: The Project of Independance: Architecture of Decolonization in South Asias, Client Organized, New York, NY, 2022 Architecture End of the Year, New York, Group Organized, NY, 2018-2023 Cooper Hewitt National Design Competition Finalist Exhibition, Group Organized, New York, NY, 2018 The Irma Giustino Weiss Prize for Exceptional Creative Potential in Architecture or Art, New York, NY, 2023 AWARDS & Arthur Thomson AR'64 Thesis Fellowship, New York, NY, 2022-2023 **SCHOLARSHIP** The Cooper Union Grant Program, New York, 2022 The Benjamin Menschel Fellowship for Creative Inquiry, New York, NY, 2022-2023 **IDCA Foundation Scholarship**, New Yor, NY, 2018-2020 The Cooper Union Innovator Scholarship, New York, NY, 2018-2020 Michael F Roberti Scholarship, New York, NY, 2019 **SKILLS** - Rhino, Auto Cad, Revit, Rendering Software (Blender, Enscape, Vray, 3D Studio Max) Photography, Adobe CS - 3D Scanning & Printing (Form lab, Makerbot) Laser Cutter, CNC (Rhinocam), Water Jet, Machine Learning **Physical** - Drafting, Drawing, Painting, Modeling, Sculpture (Resin, Clay, Plaster, Wood, Metal, Foam) Proficient in English and Chinese (Mandarin), Intermediate in Spanish. LANGUAGES

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The Cooper Union for the Advancement of Science and Art | New York, NY

The Irwin S. Chanin School of Architecture, Class of 2023

NADAAA, Boston, MA, June 6 2022- August 28 2022

929-318-6971

**EDUCATION** 

**EXPERIENCE** 

#### Studio Projects, P1 - P24

Thesis: Disobedient Objects: A Catalogue of The Uncanny.

Wood Venner: Architectonic: Materiality and Spacial Qualities.

Plaster as Surface: Form Finding and Structural Analysis.

Urban Archive: New York City in Section in Relation to Communication and Data Transfer.	9
Experimentative Housing Project Part 1: High Density Low Rise	15
Experimentative Housing Project Part 2: High Density Mid Rise	19
Material Experimentations & Analysis, P25 - P44	
Vinyl & Plastic: Blow-Up, An Inflatble, a Living Pod, an Adaptation.	25

### Representation & Drawings, P45 - P56

Structural and Detail Drawings.

Plaster: Solidified Movements.

Sheet Metal: Tangentail Bouncing Object.

Formal Analysis: Villa Muller, Adolf Loos.

Descriptive Geometry and Drafting.	49
Freehand drawings.	51
Photography.	55

# Thesis: Disobedient Objects A Catalogue of The Uncanny

Instructors: Nora Akawi, Michael Young, Hayley Eber, Lydia Kallipoliti, Maren Speyer

This thesis is interested in exploring the possibilities of materials and how they can provide various aesthetics and functions through digital fabrication that reveals the strangeness of the materials themselves and the spaces they form. It questions the norms of common materials and how they behave in a domestic environment. Through a series of manipulations and modifications, the materials strive to do a little beyond what they ought to do, estranging the intimate encounters within the domestic space. The friction between tactile and tectonic, and the boundaries between public and private comprise the center of this discussion.

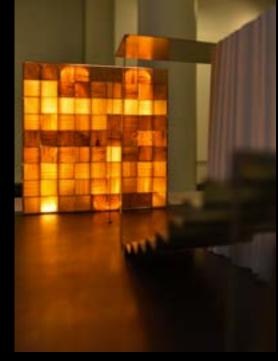




Plaster- Moon- Illumination



Plastic- Gradiant- Division



Wood-Panels-Illumination



Plywood- Drape- Division



Plaster- Water- Stair Division



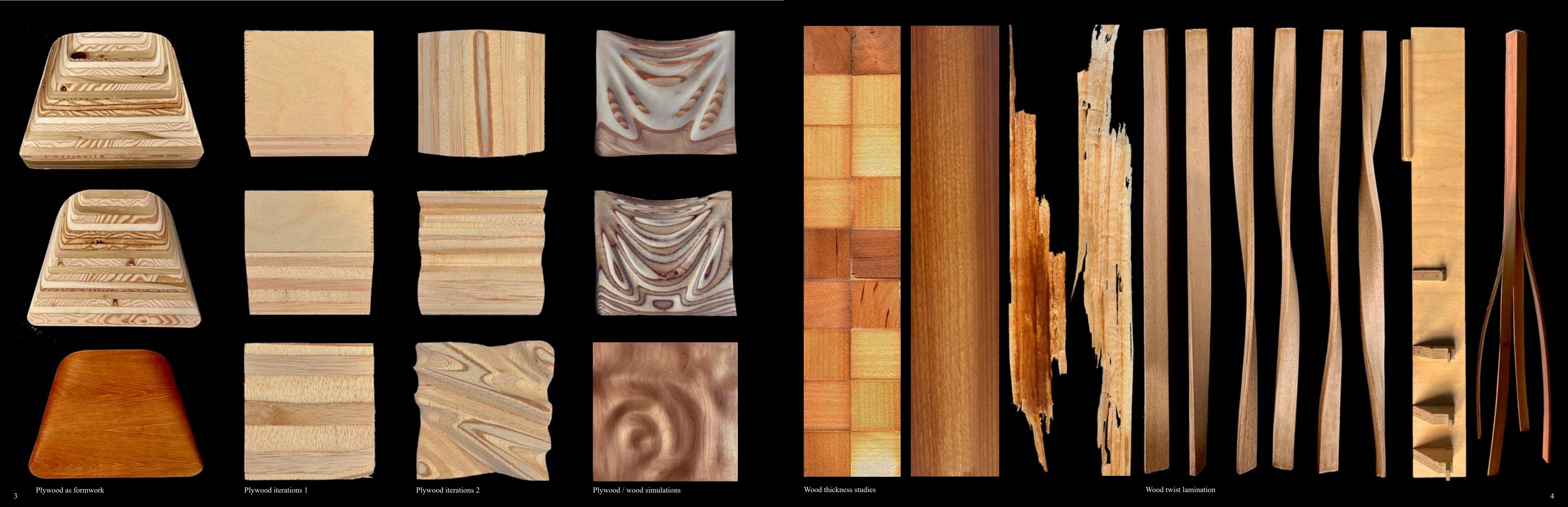
Triple Materials- Curtain- Stair Surroundings

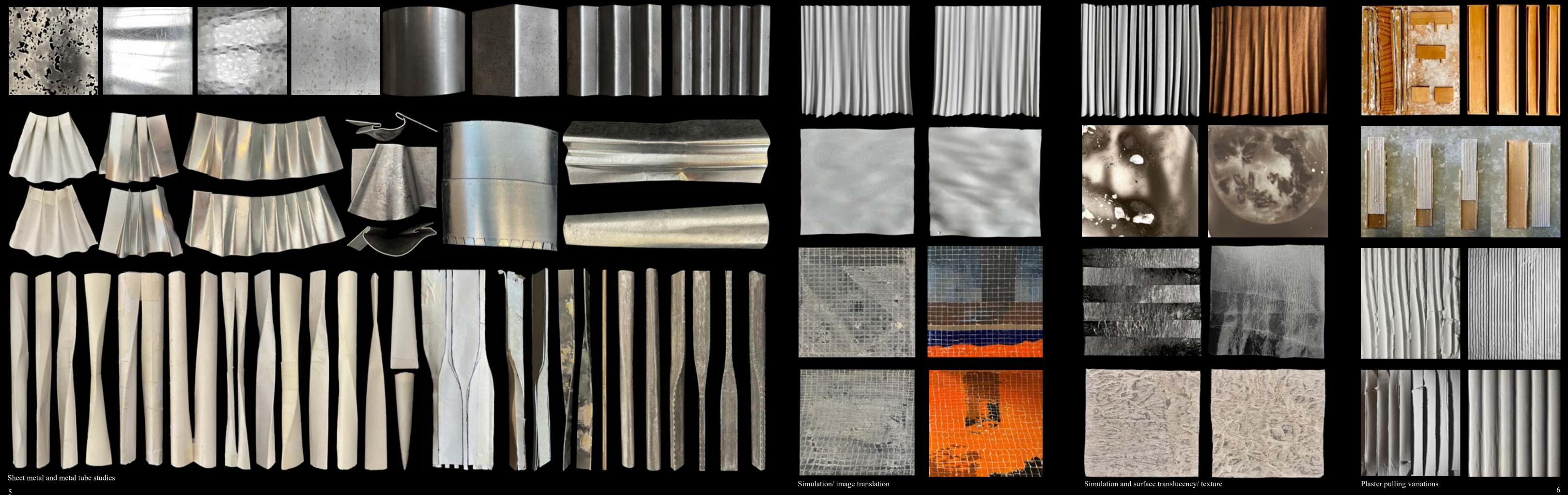


Wood- Water- Floor

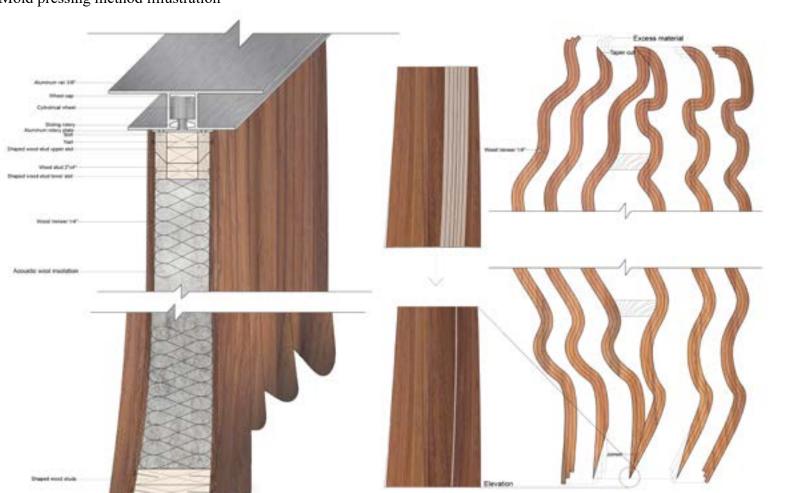


Metal- Aperture- Division

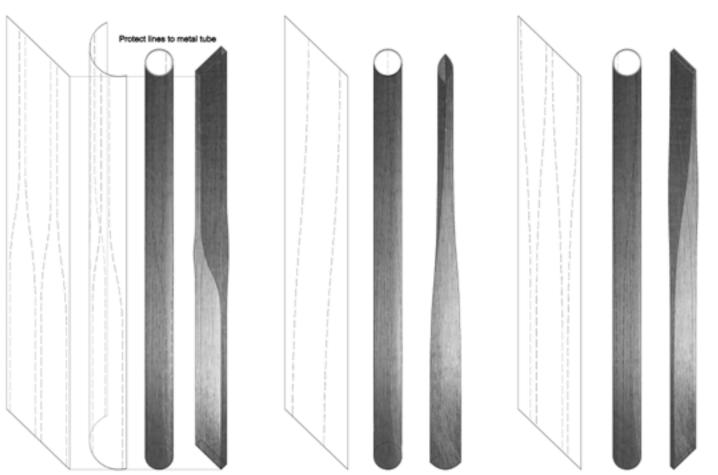




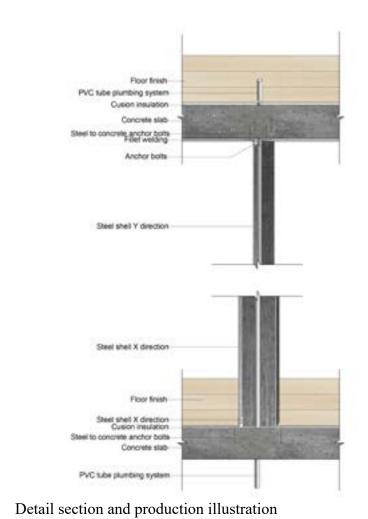


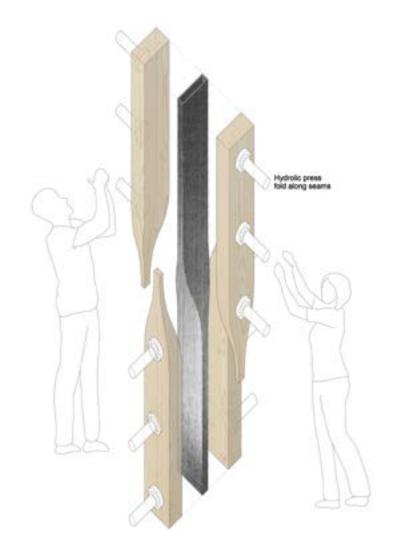


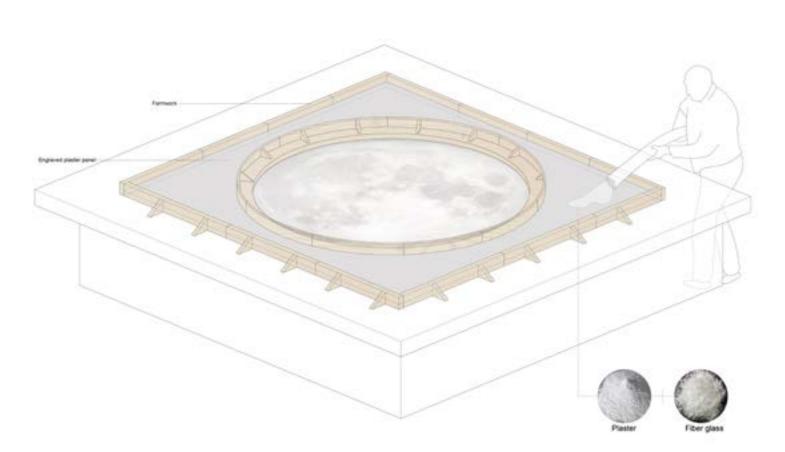
Detail section



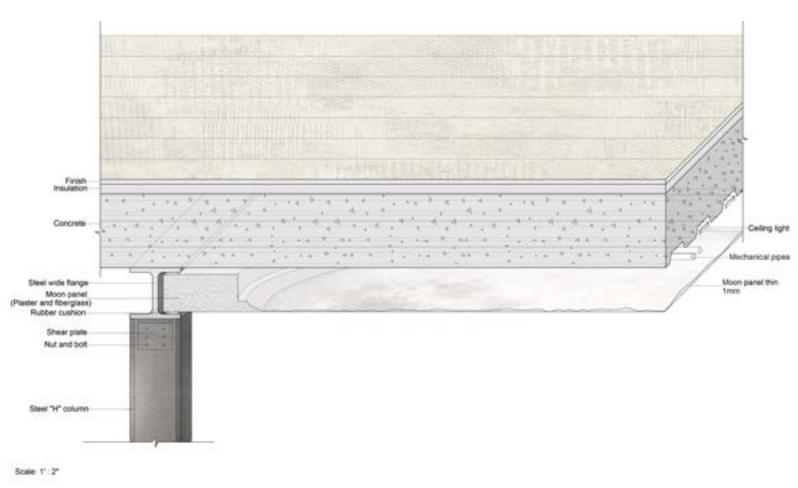
Metal tube transformation illustration



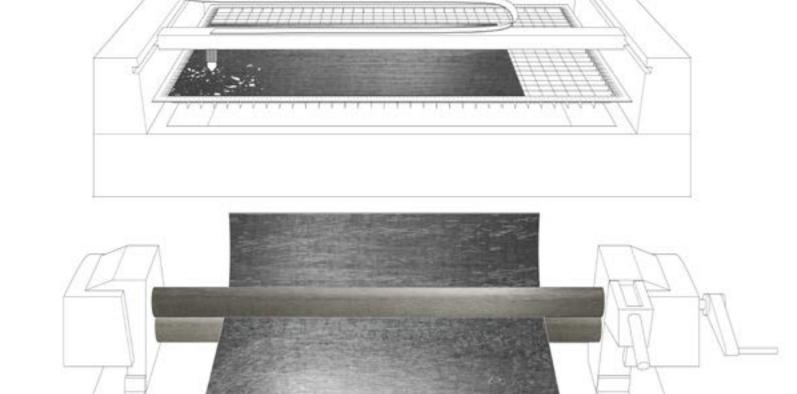




Moon ceiling production illustration





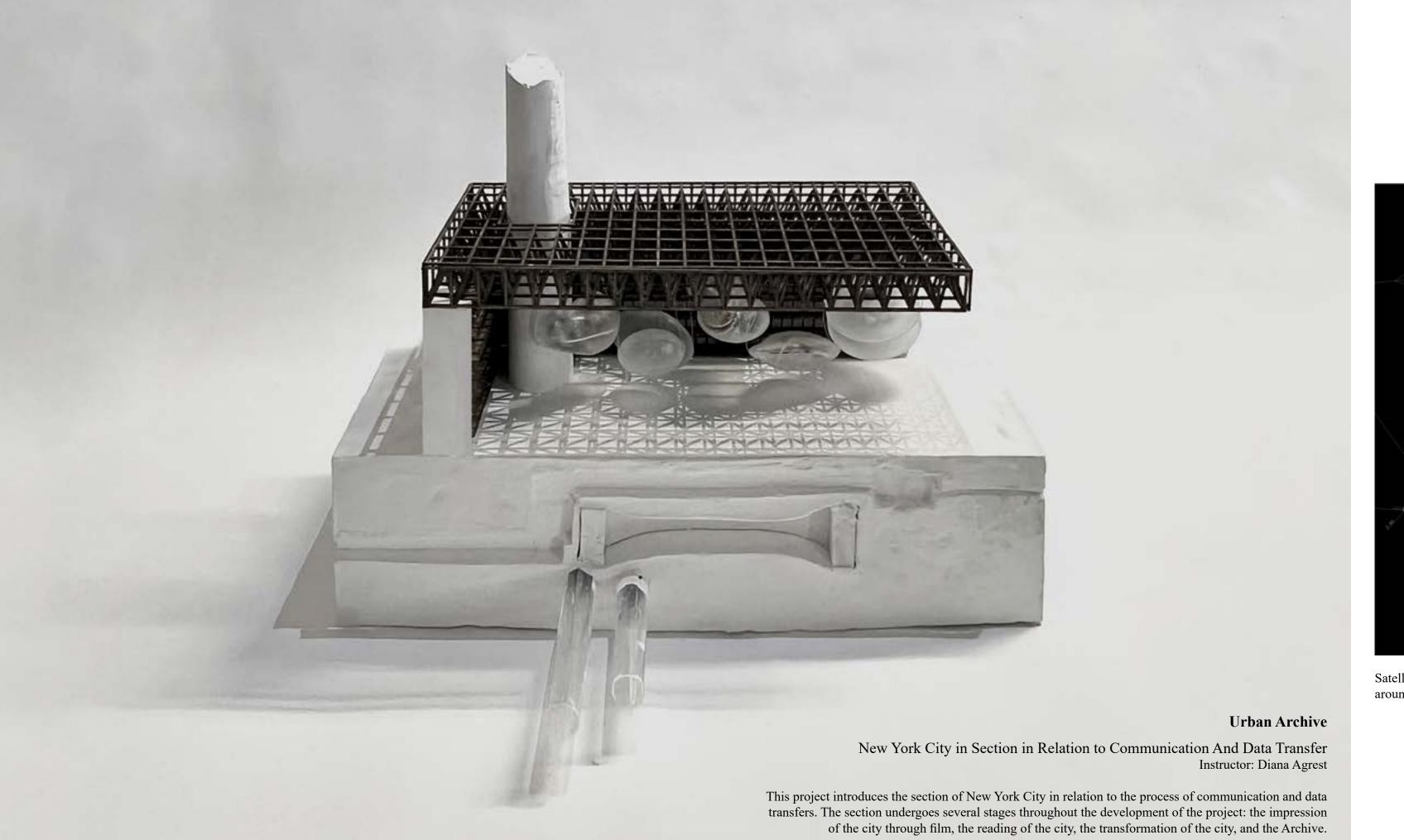


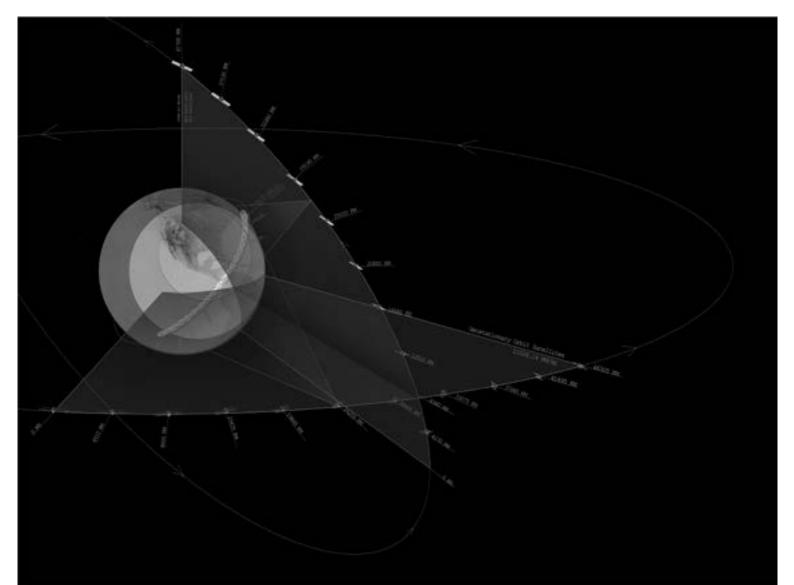
Metal aperture panels production illustration



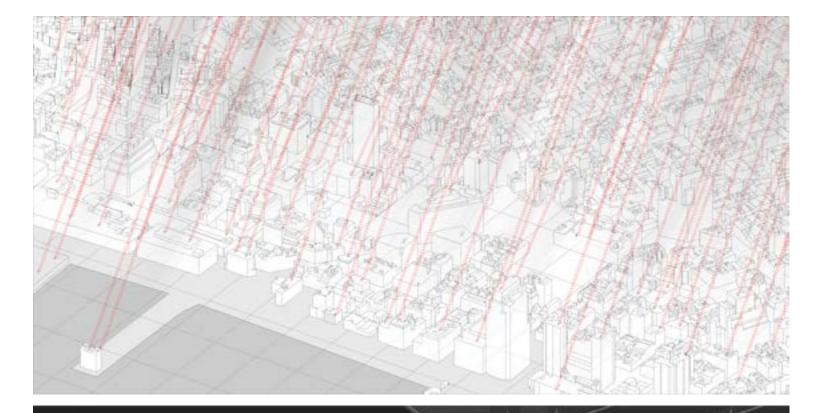
Aperture slideing penals application

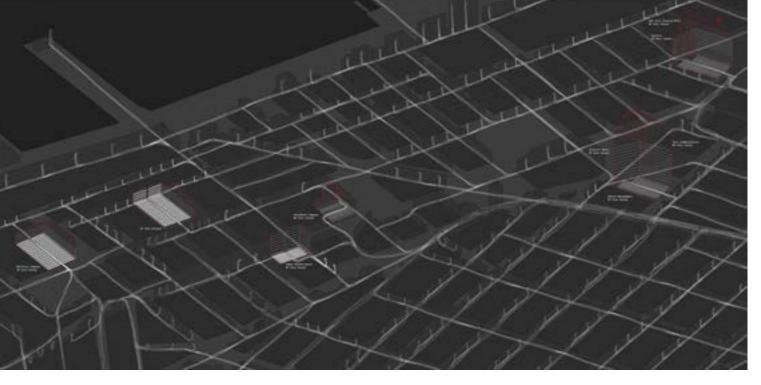
ture stideting penals application



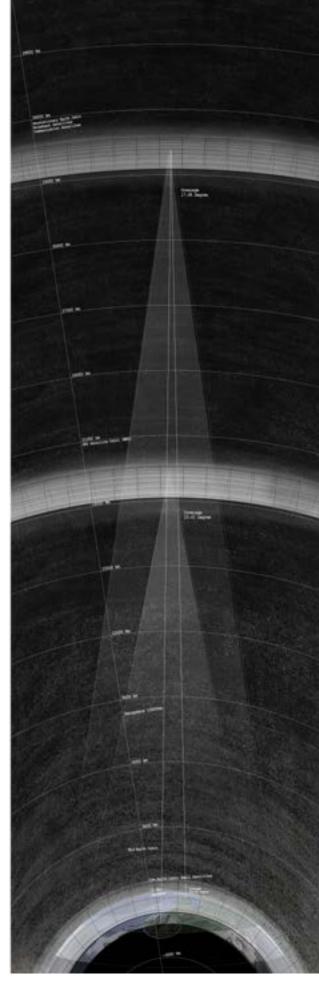


Satellites' movement in designated orbits around earth at increaments of time.

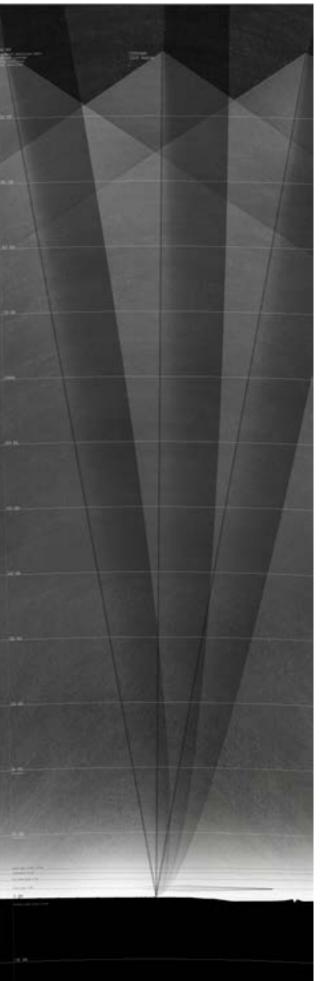




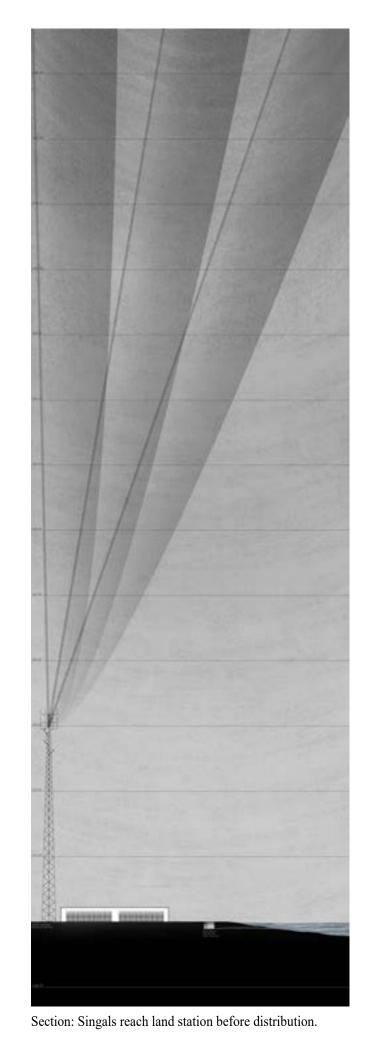
Dyptic showing above ground transmission through signals and underground transmission through cables.

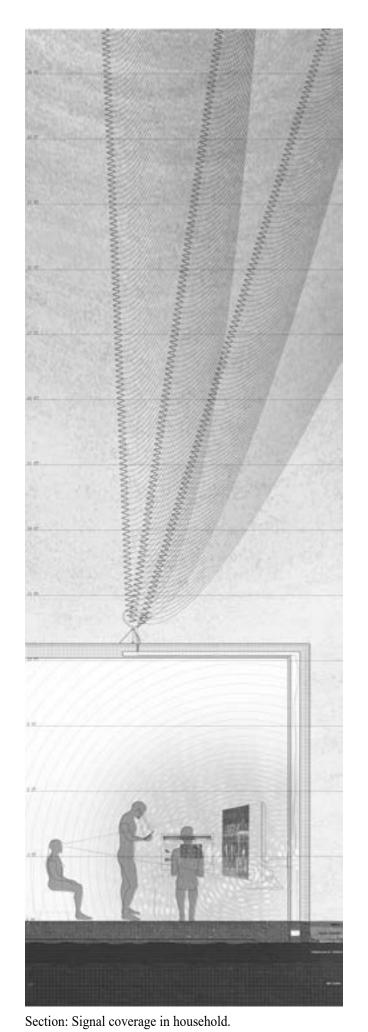


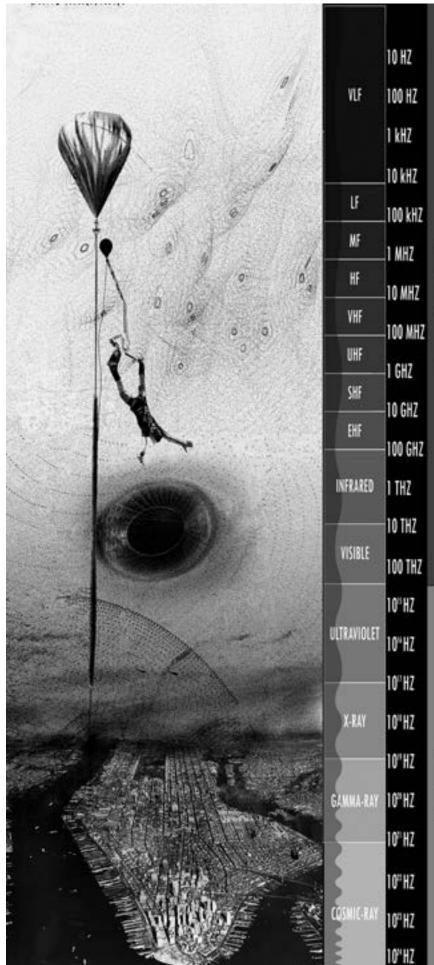
Section: Satellites' coverage on earth at varied earth orbits.



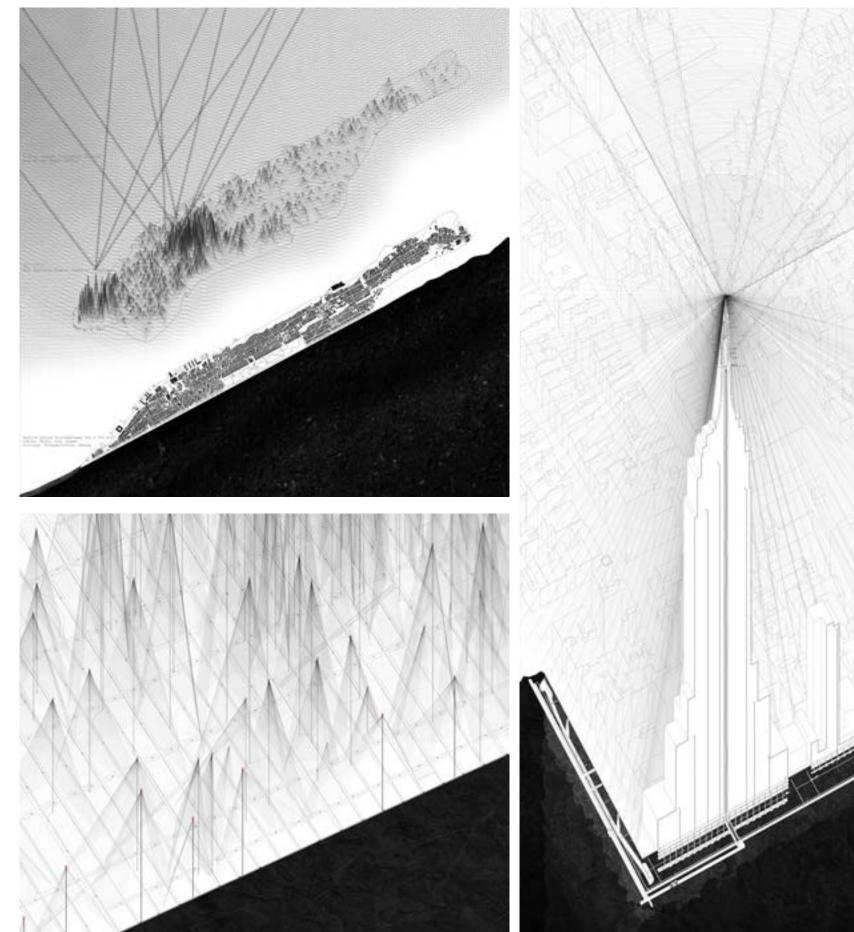
Section: Process of signals reaching earth surface.





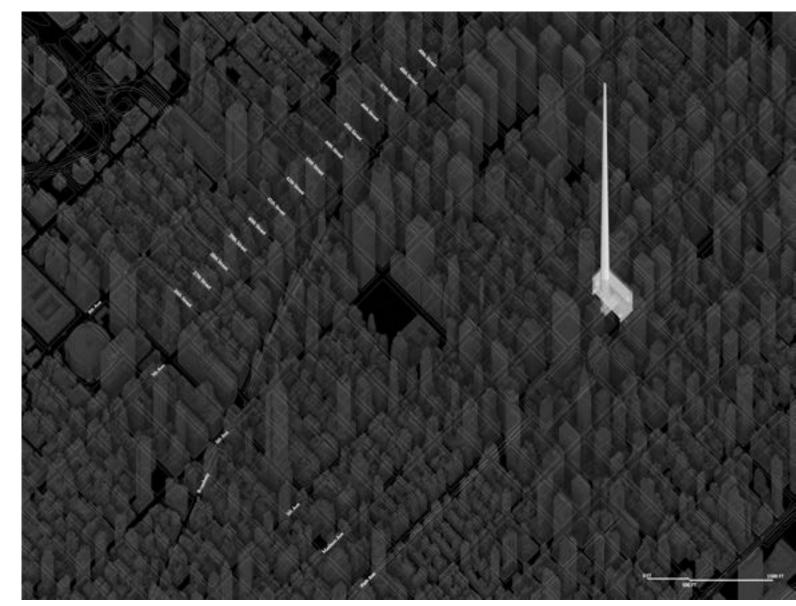




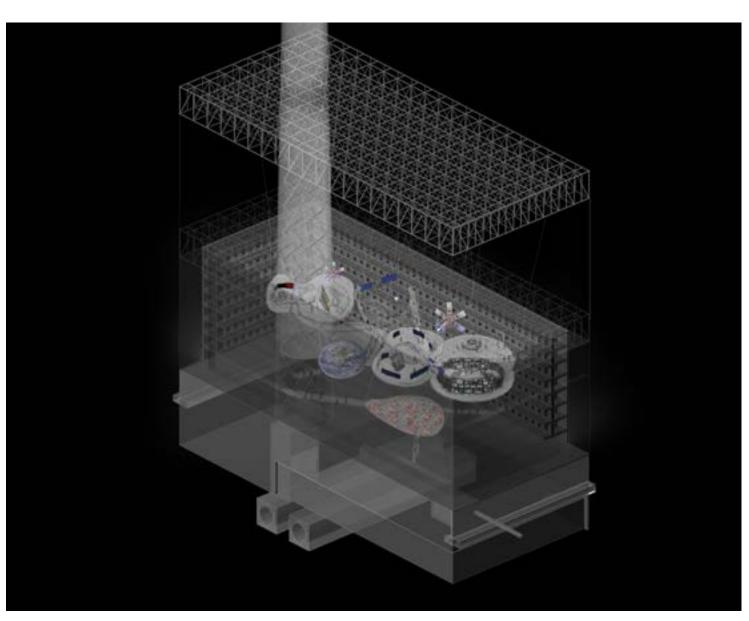


Conceptual Collage: Bungee jump into digital blackhole.

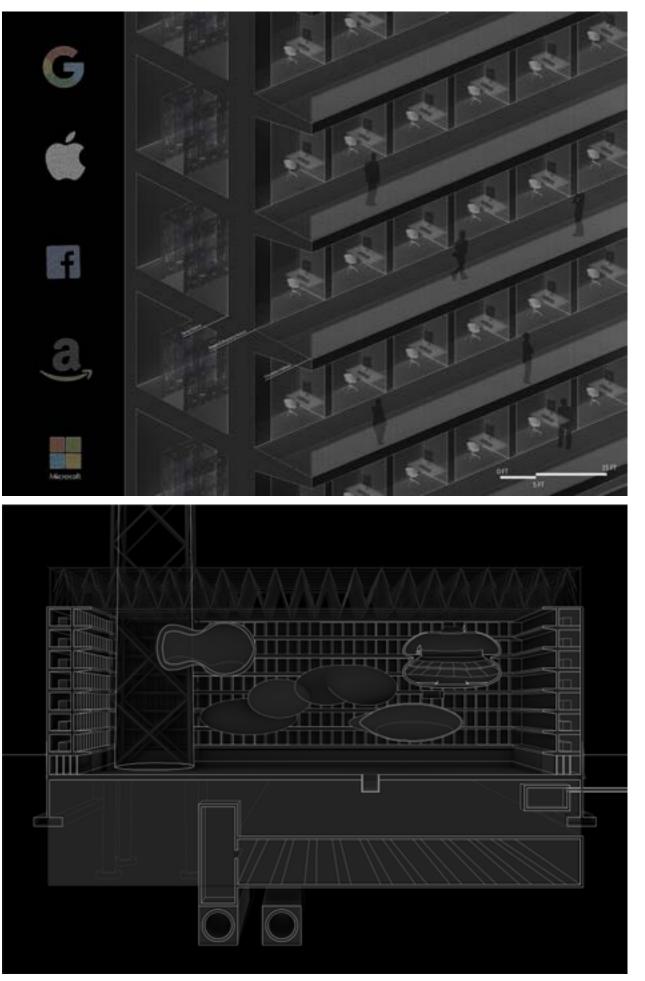
Axonometric Drawings: signals coverage and transmission in city at three scales.



Site drawing of the Archive.

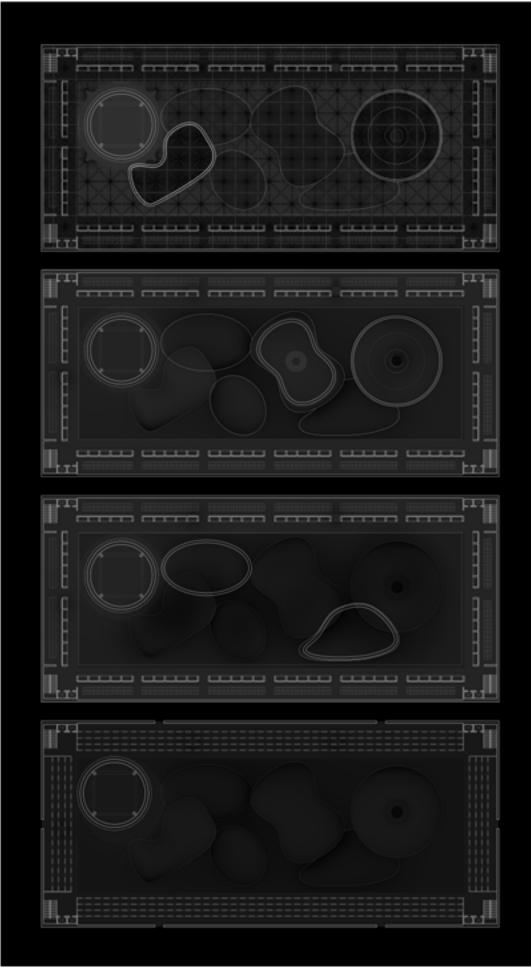


Axonometric drawing on the Archive and its



**Top:** Zoomed-in axonometric drawing showing research hubs, data services, and corridor.

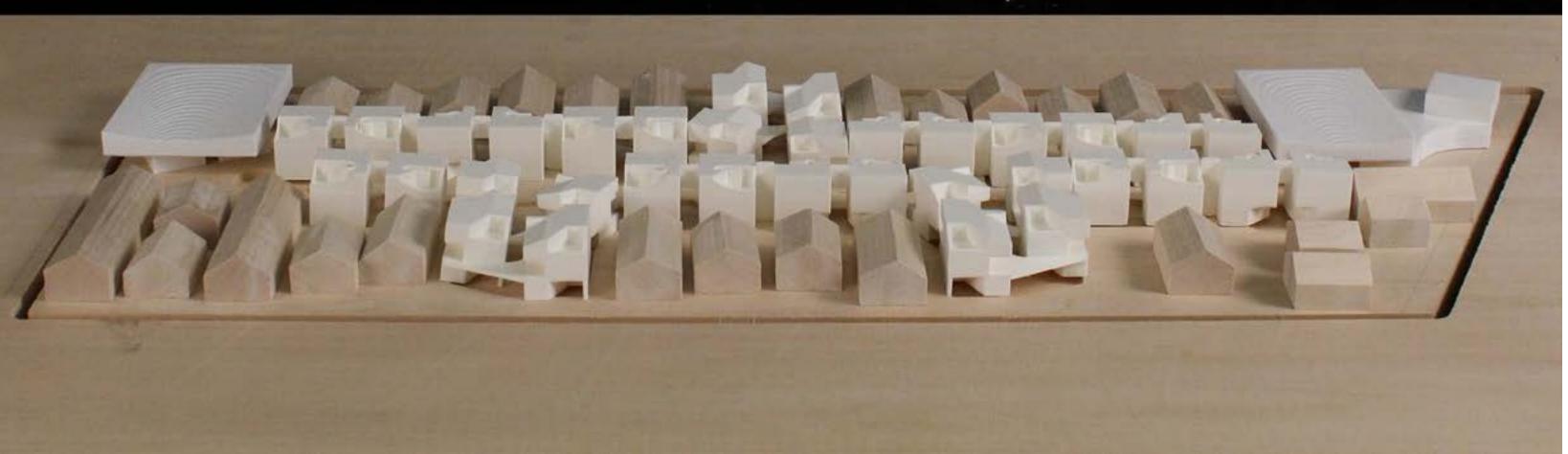
**Bottom:** Perspective section of the Archive, above and below ground.

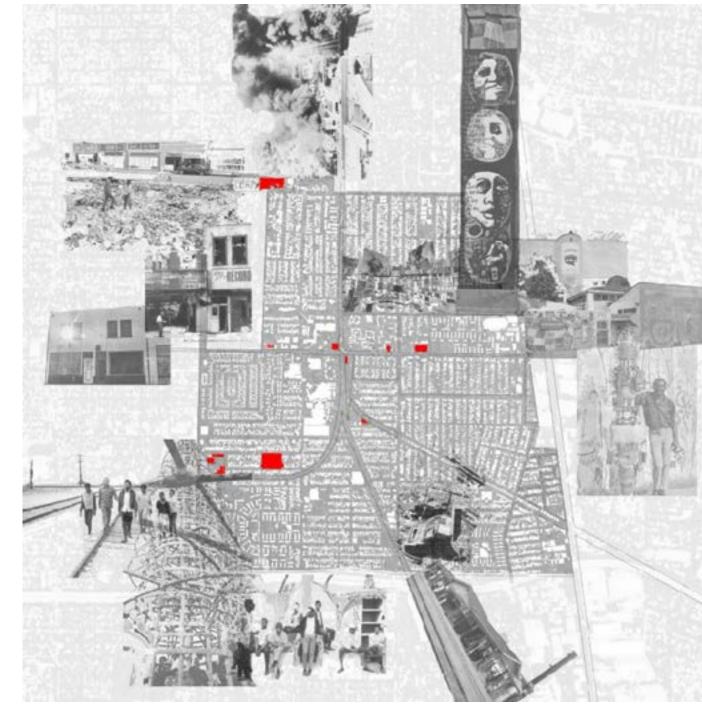


Plans of Archive.

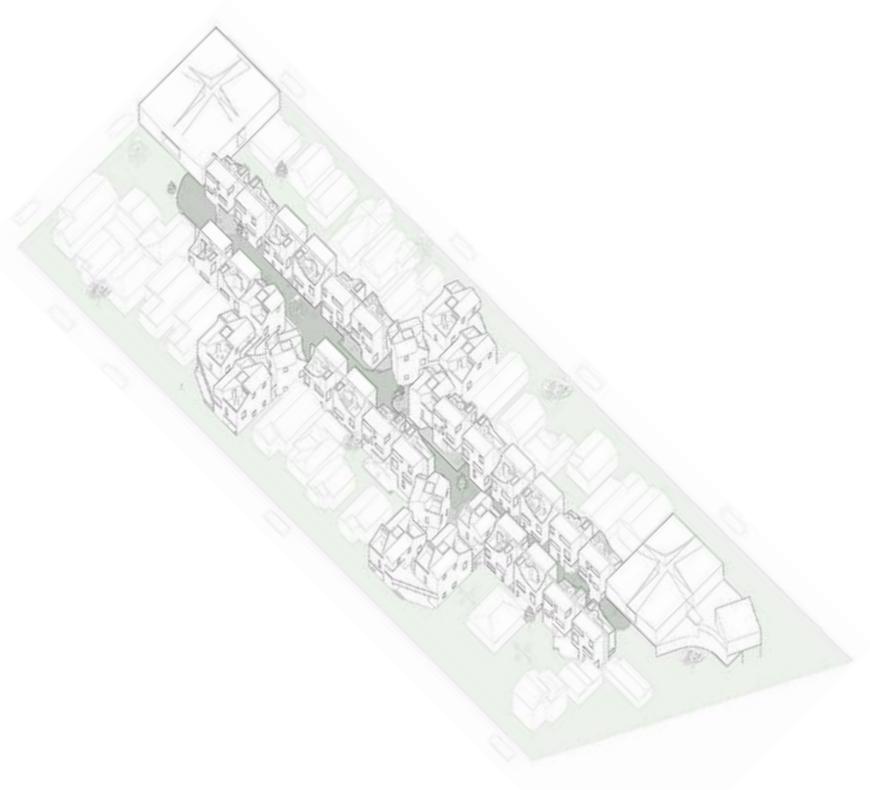
# Experimental Housing in Watts in Two Scales / Phase 1 High Density Low Rise Affordable Housing Instructors: Nima Javidi, Daisy Ames, Mersiha Veledar, Mokena Makeka

Phase1 of this experimental housing studio focuses on investigating high density, low rise affordable housing. The project aims to introduce new housing without demolishing the existing condition, inserting new housing into the surrounding neighborhood and introducing a central recreational street.





Site Collage: Composition of different activities, institutions, culture, and history in the Watts neighborhood.



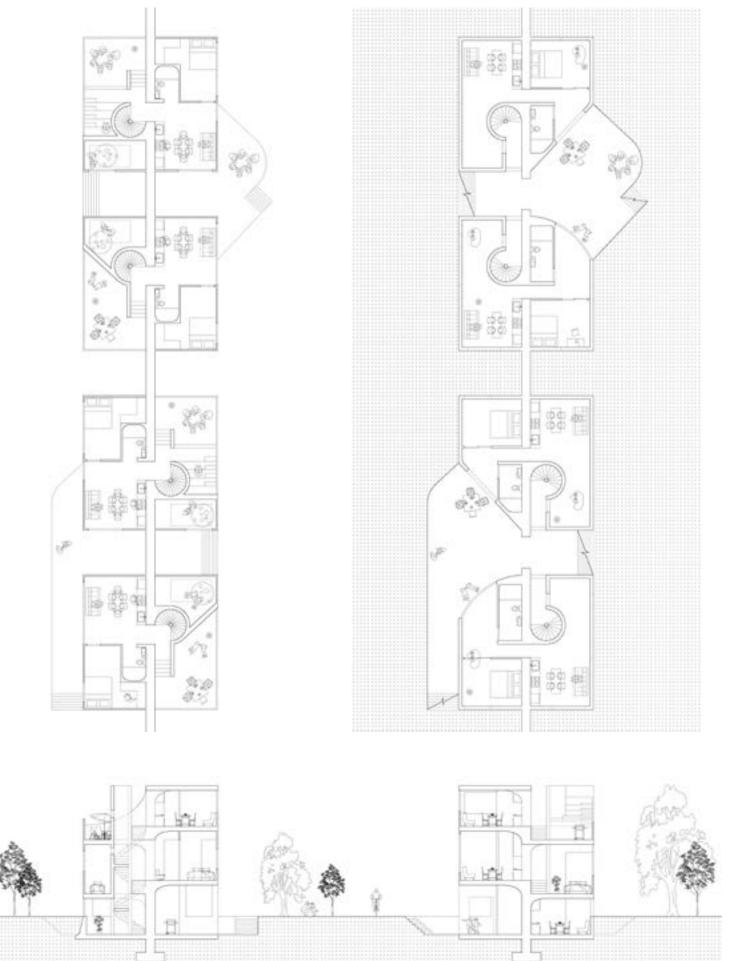
Axonometric: Housing project on site with different activities on suggested recreational padestrian street.



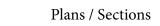
Model photograph on occupiable roof space and through threashold.

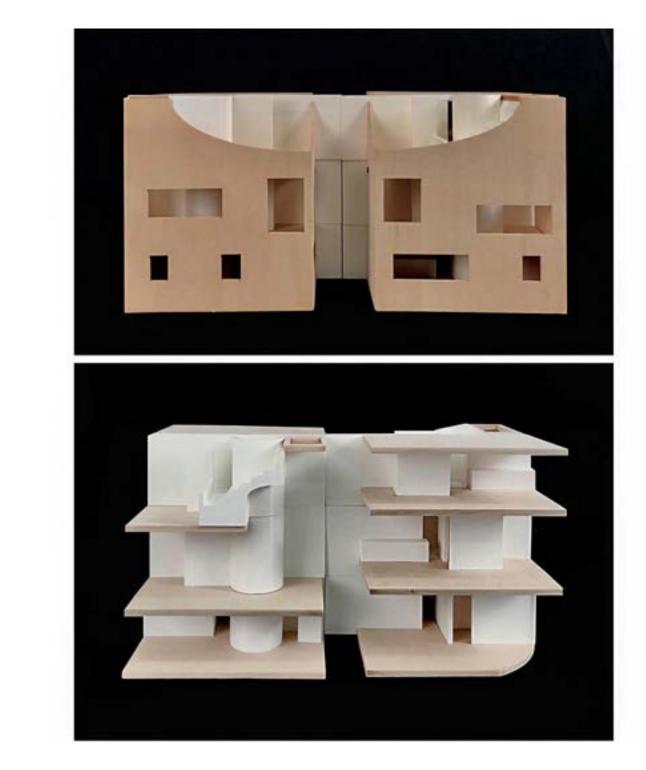


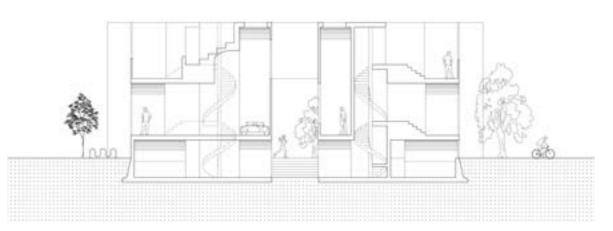
Photograph: Housing project on site (Duplex Housing)







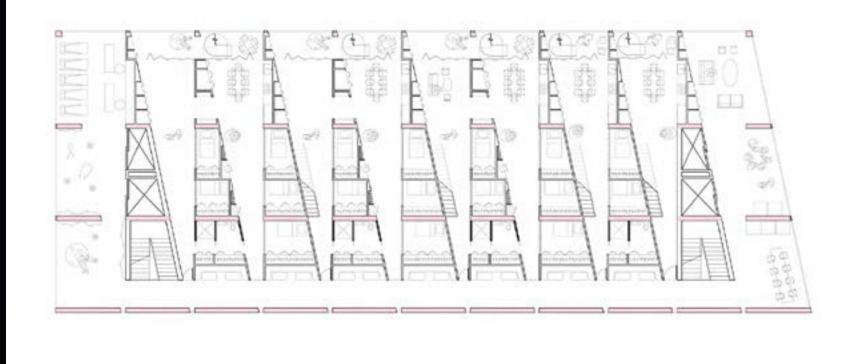


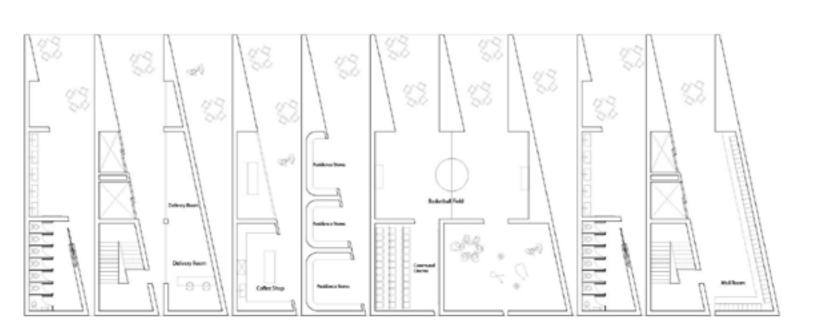


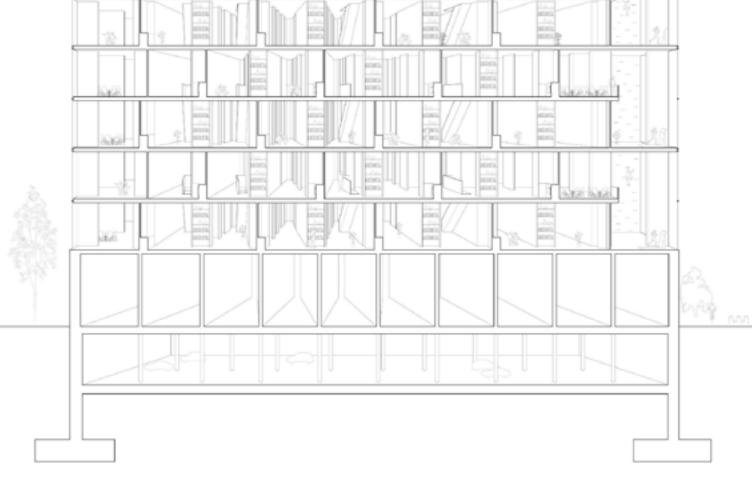
Model photographs in relation to section drawings.

# Experimental Housing in Watts in Two Scales / Phase 2 High Density Mid Rise Affordable Housing Instructors: Nima Javidi, Daisy Ames, Mersiha Veledar, Mokena Makeka

The second phase of this experimental housing project follows a structural parti for transforming load bearing walls to columns throughout the span of the building. The apartments units follow the preset rules of a structural system which allows the units to follow the rule of modularity through triangulation and stacking.

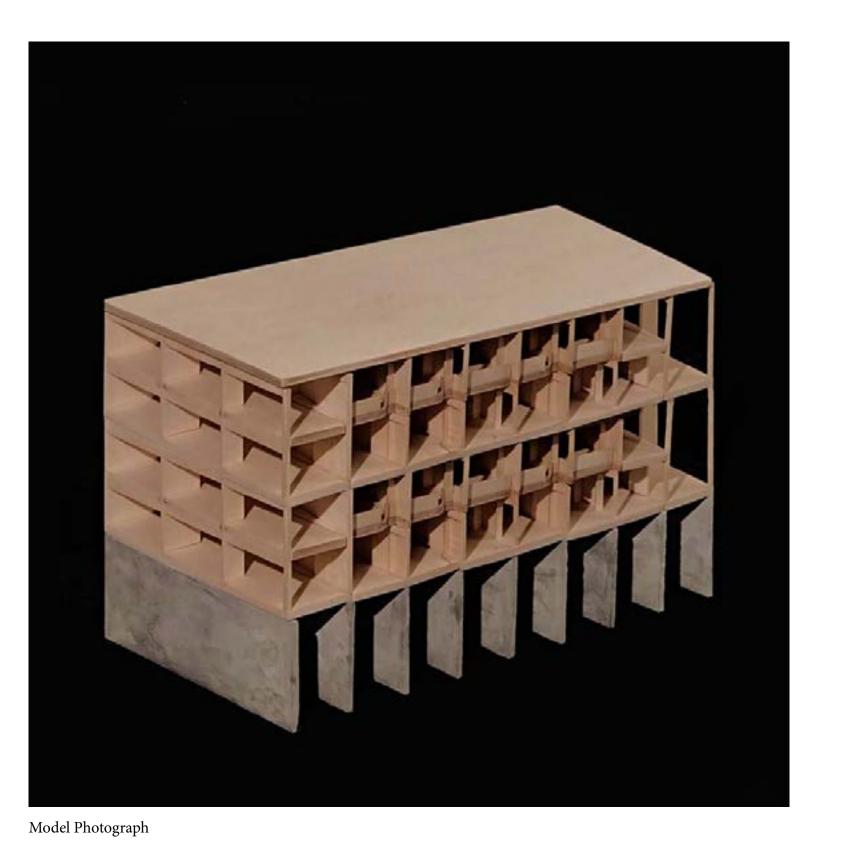


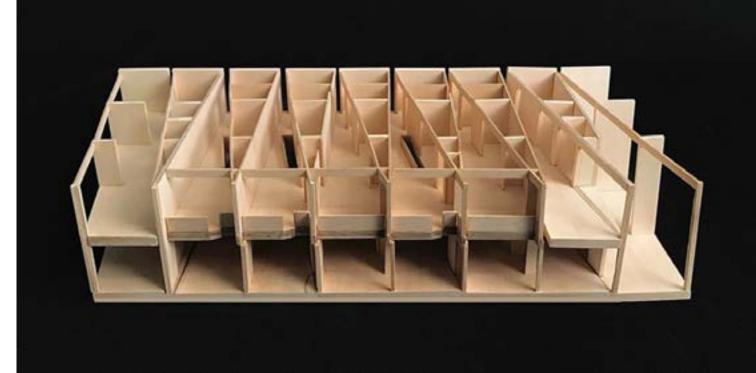


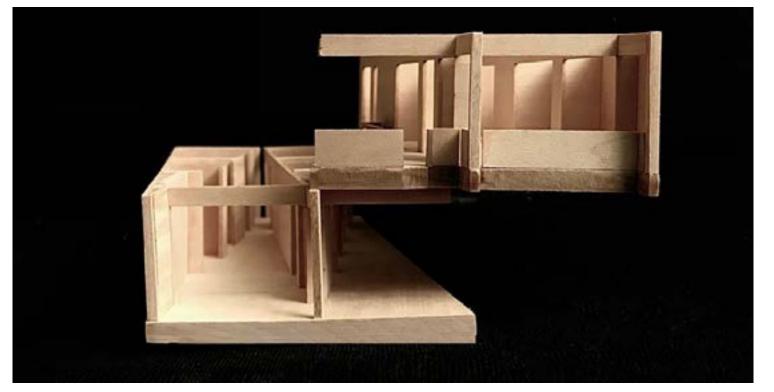


Section

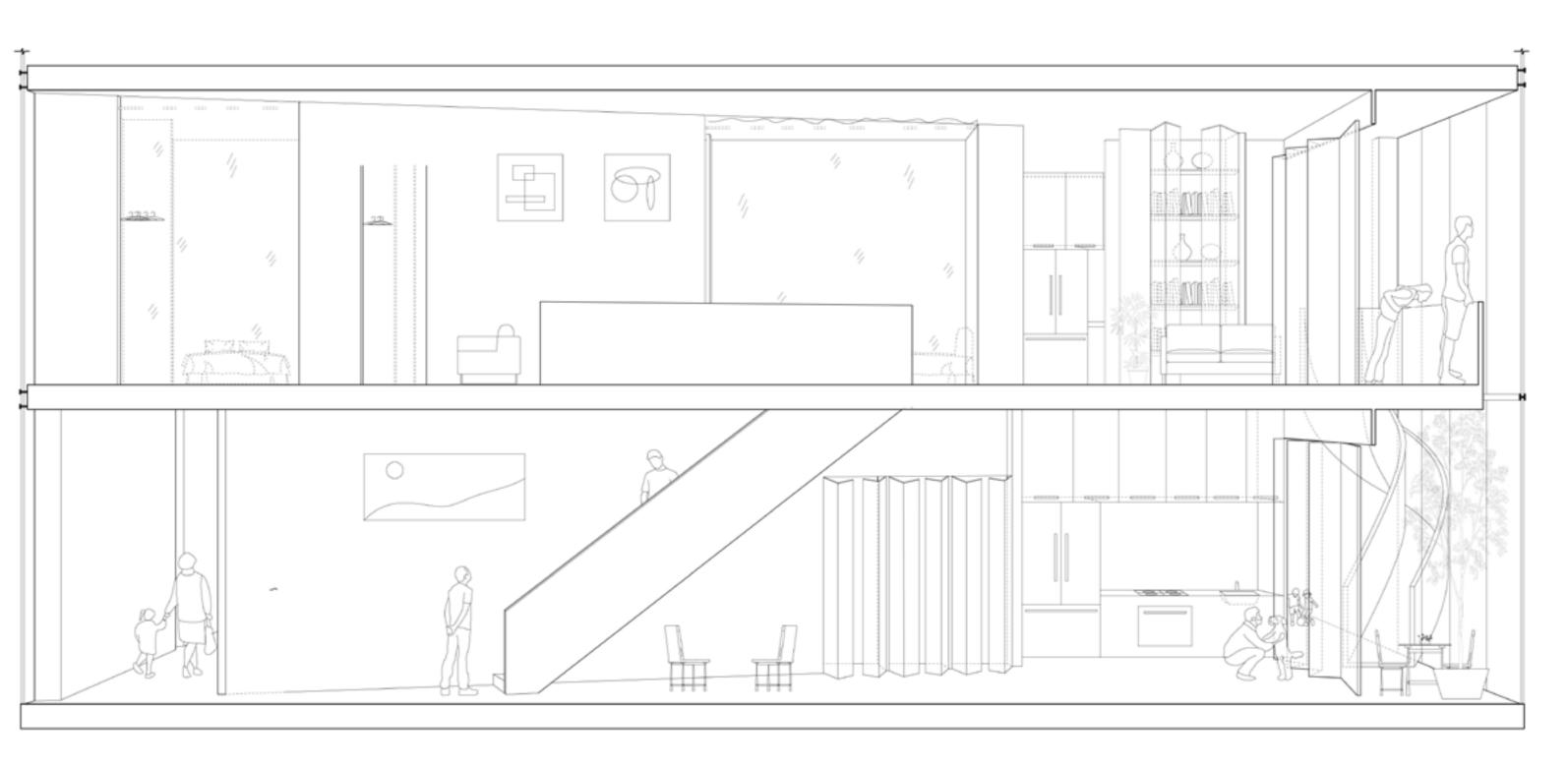
**Top**: Typical corridor level plan. **Bottom**: Podium communal space plan.











Perspective section on typical unit.



Rendering image on corridor.



Rendering image facing bedrooms.



Rendering image through threshold.

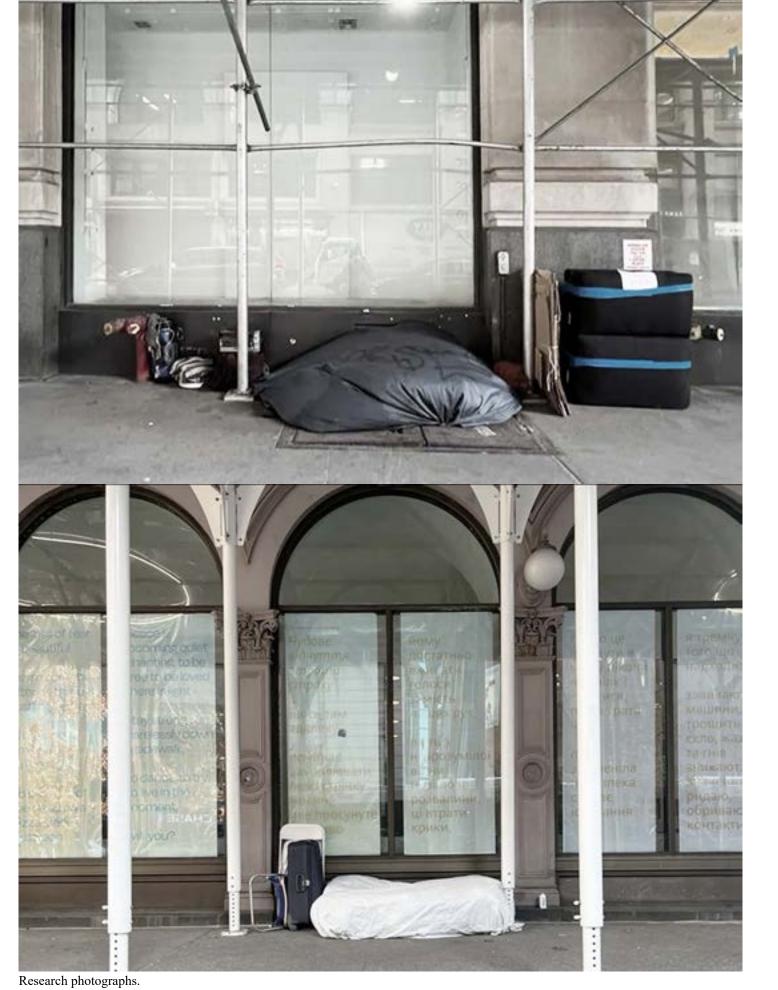


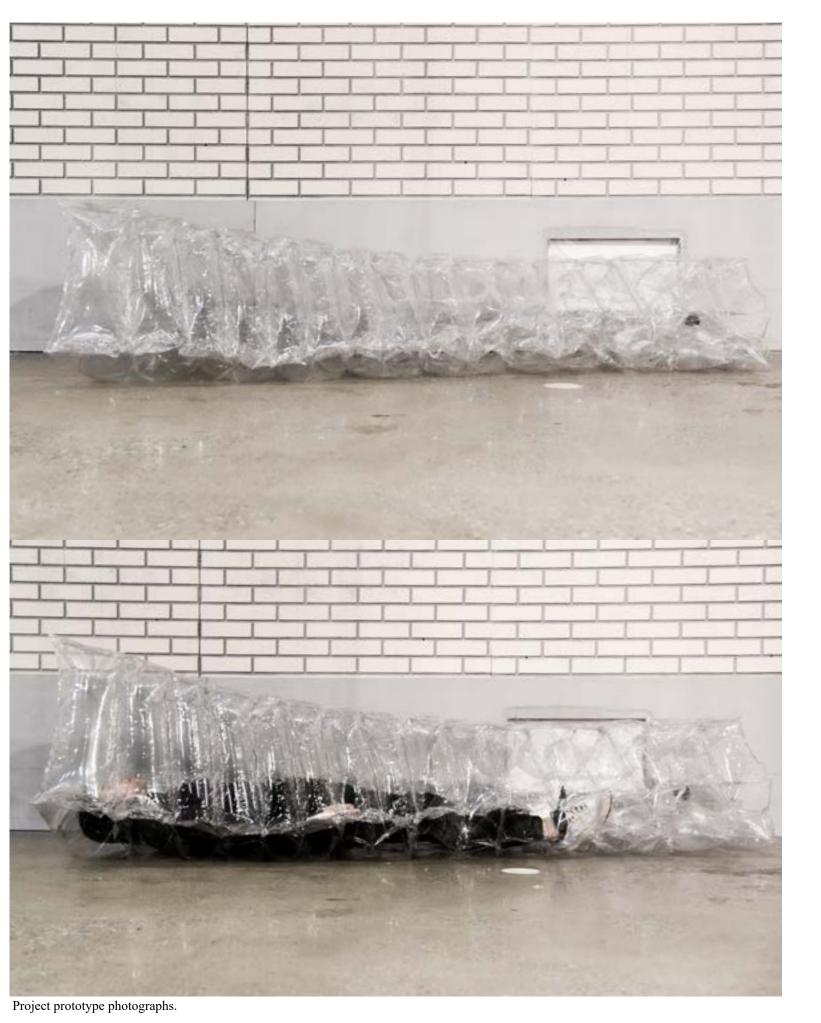
Rendering image on dining space.

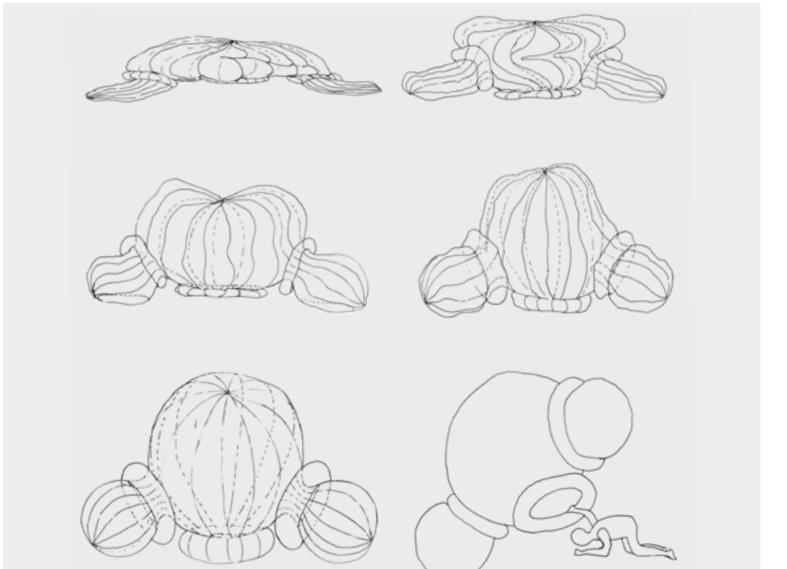


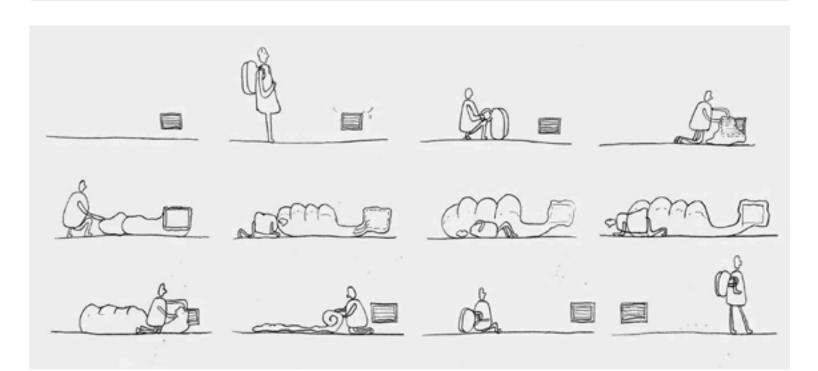


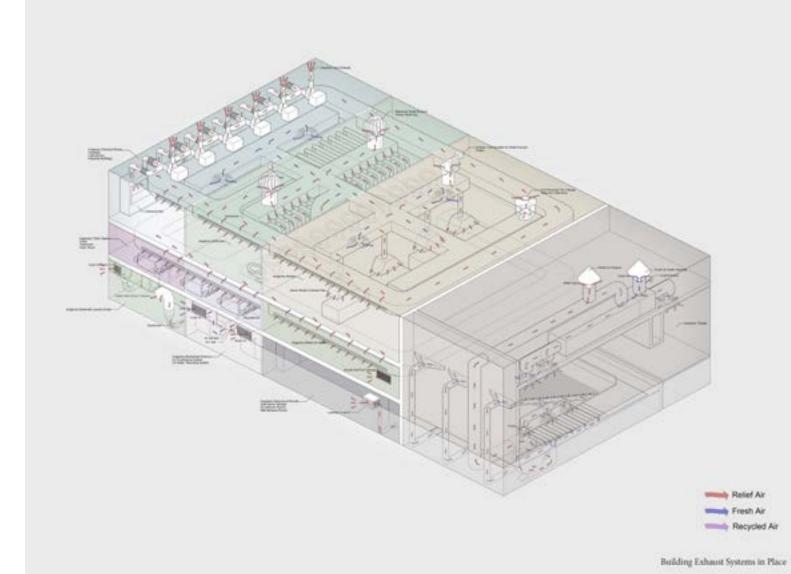
Project fabrication methods research studies.

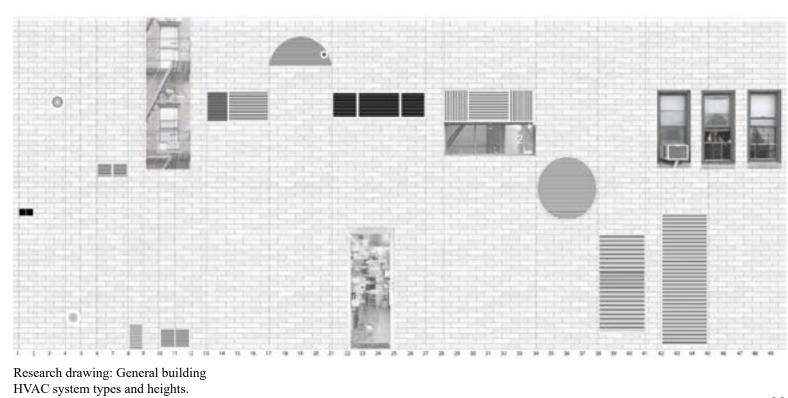




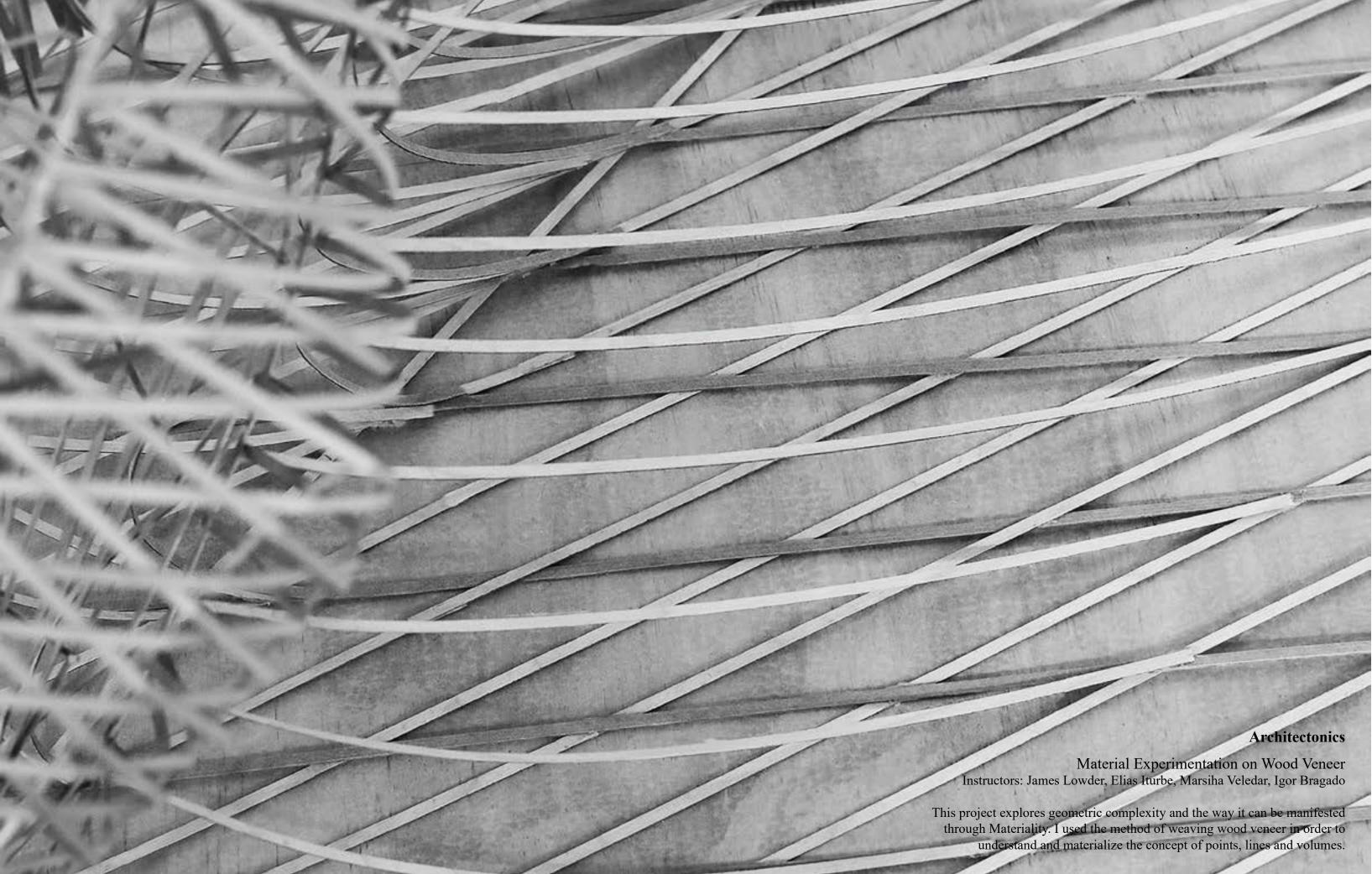


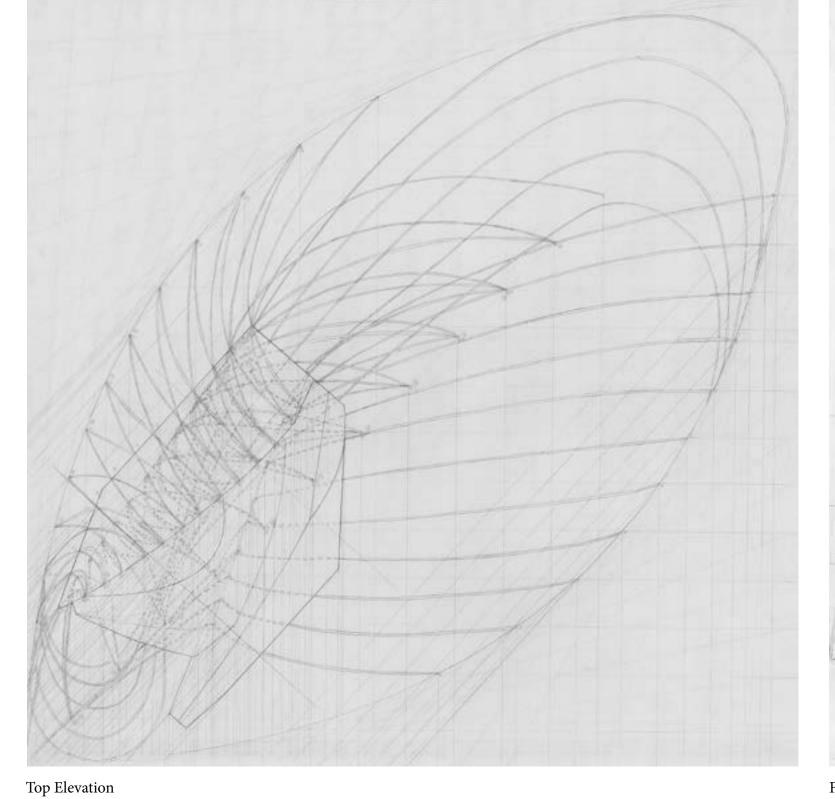


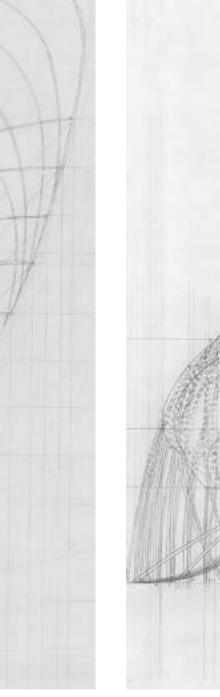




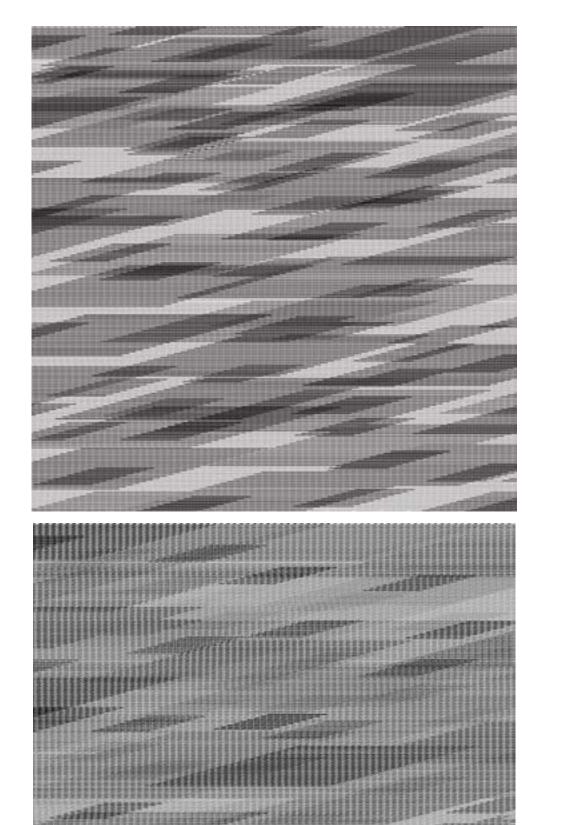
Comic drawing on project narrative.



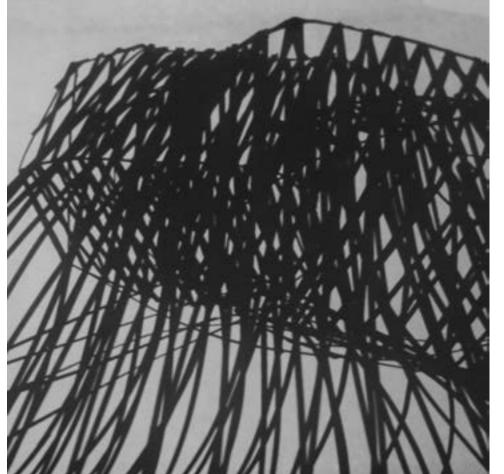




Front Elevation











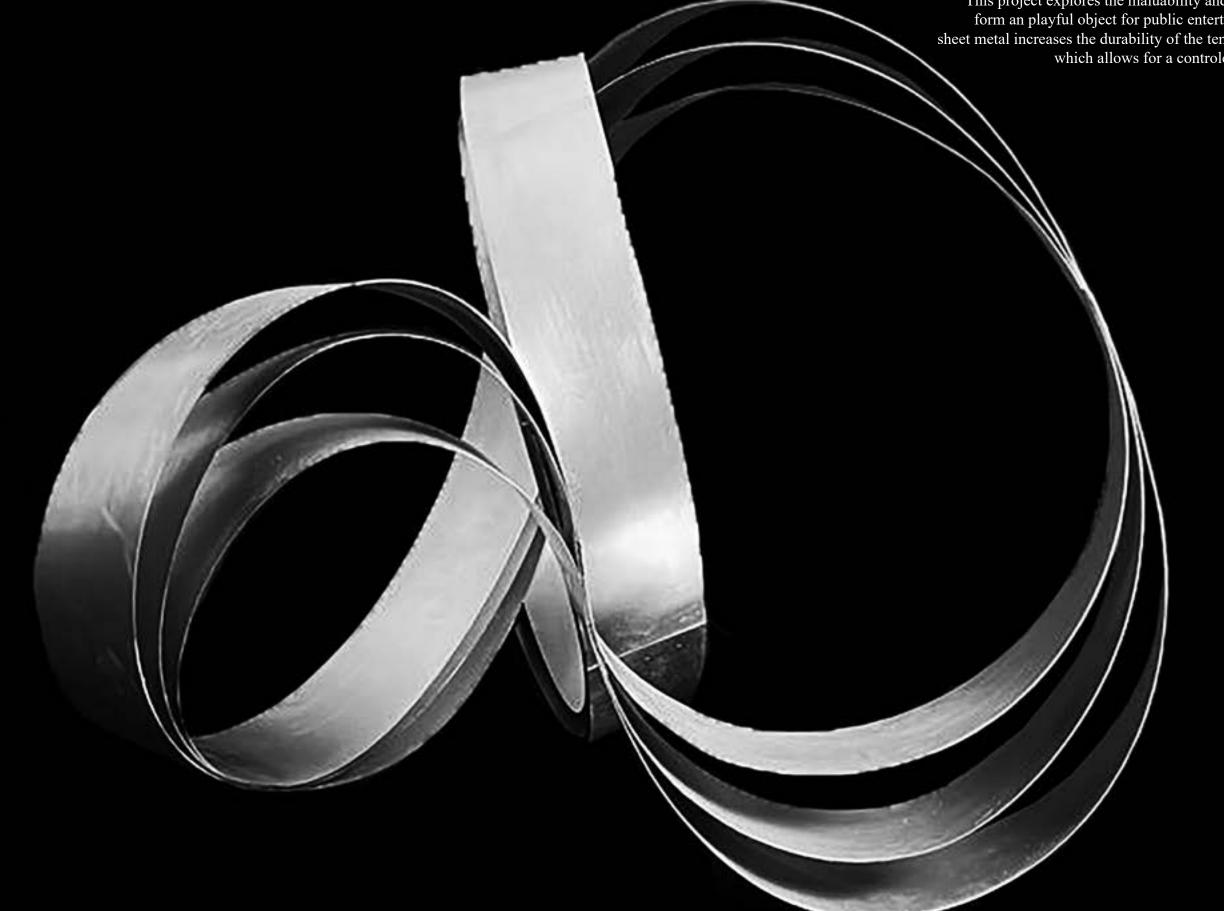


Photographs of physical model at two scales.

Tangential Bouncing Object
Material Experimentation on Sheet Metal

Instructor: Mersiha Veledar

This project explores the maluability and tensile qualities of metal to form an playful object for public entertainment. The layering of the sheet metal increases the durability of the tensile strength at that segment which allows for a controlled movement of bounciness.

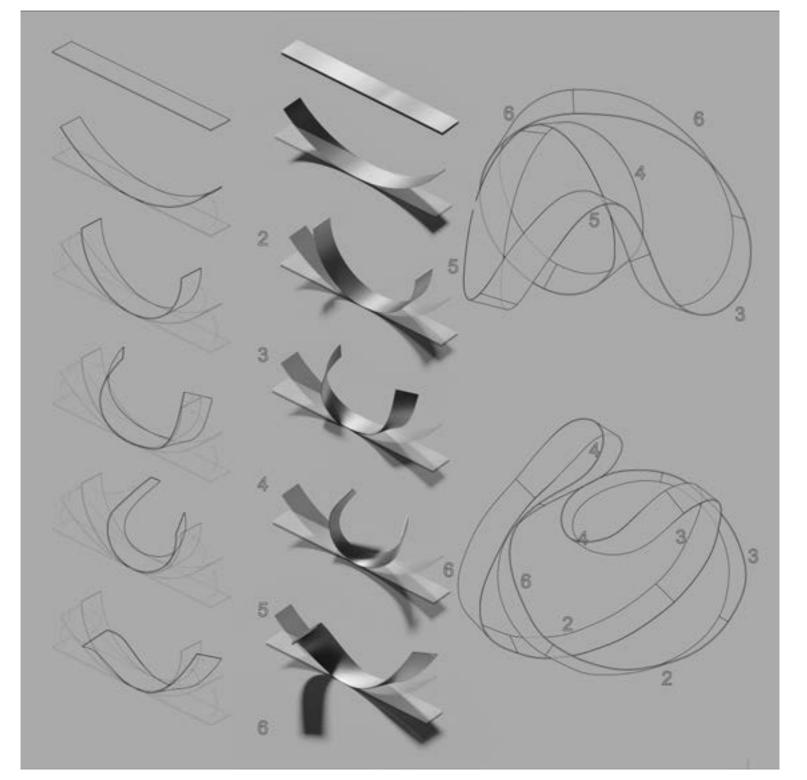


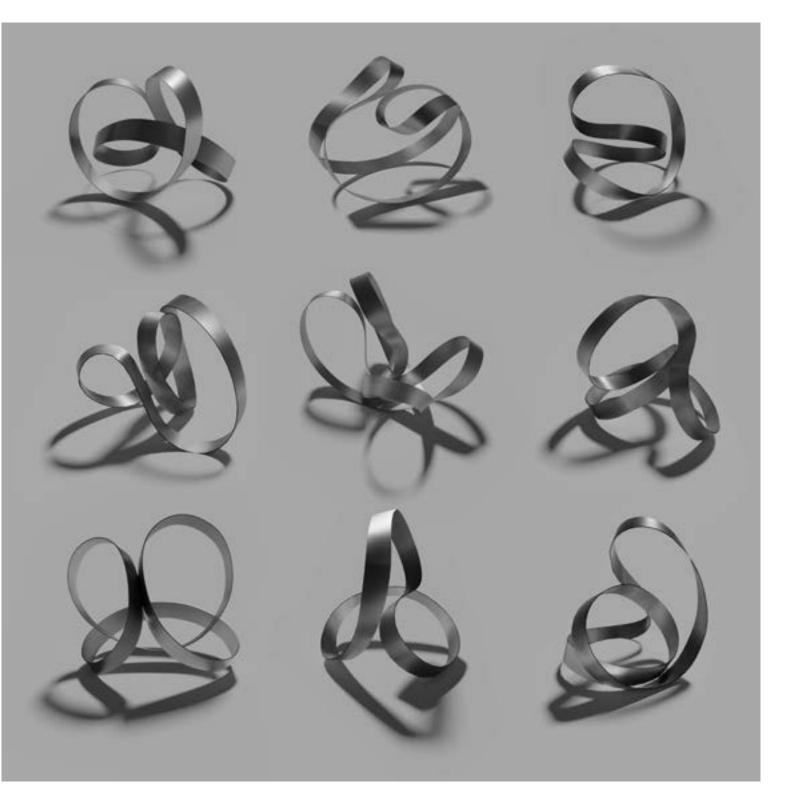


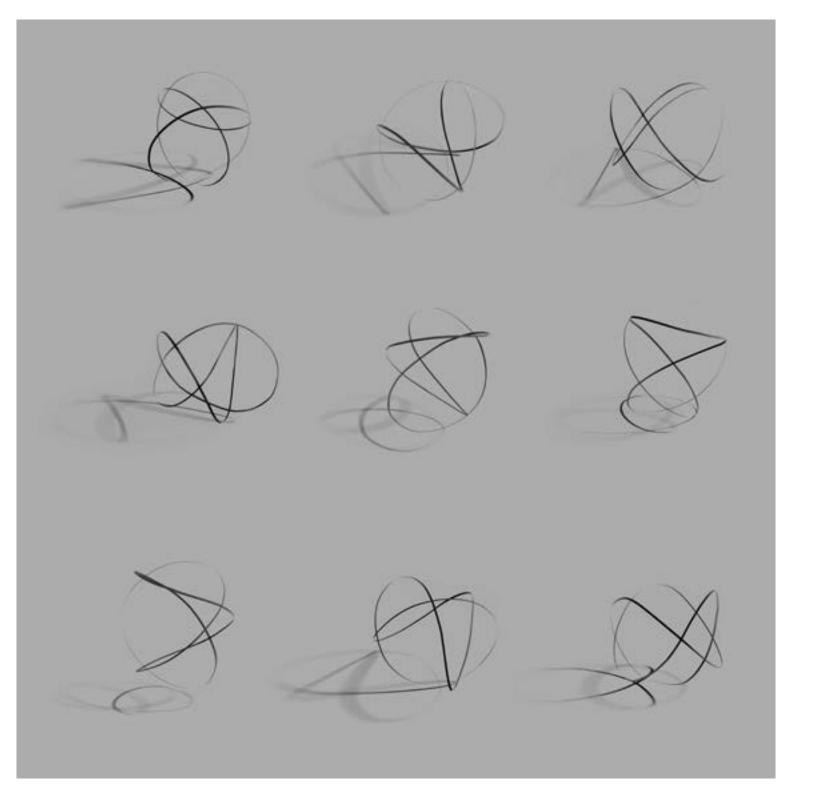
Model Photograph Zoomed In

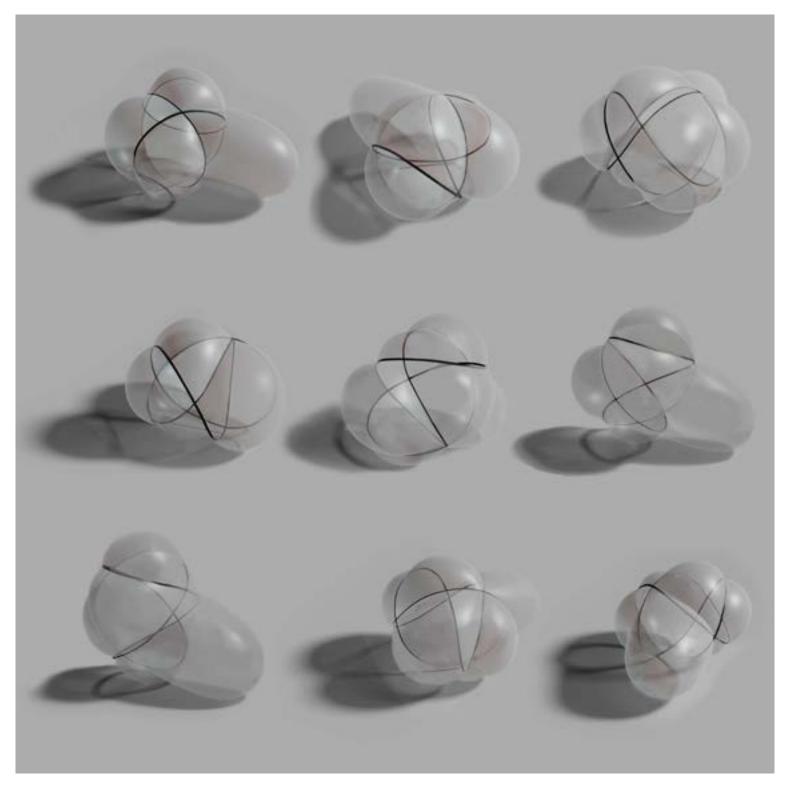












Sheet Metal Curvature Types

Rendering Image: Possible Combinations

Rendering Image: Possible Combinations Thin Metal

Rendering Image: Space Formation

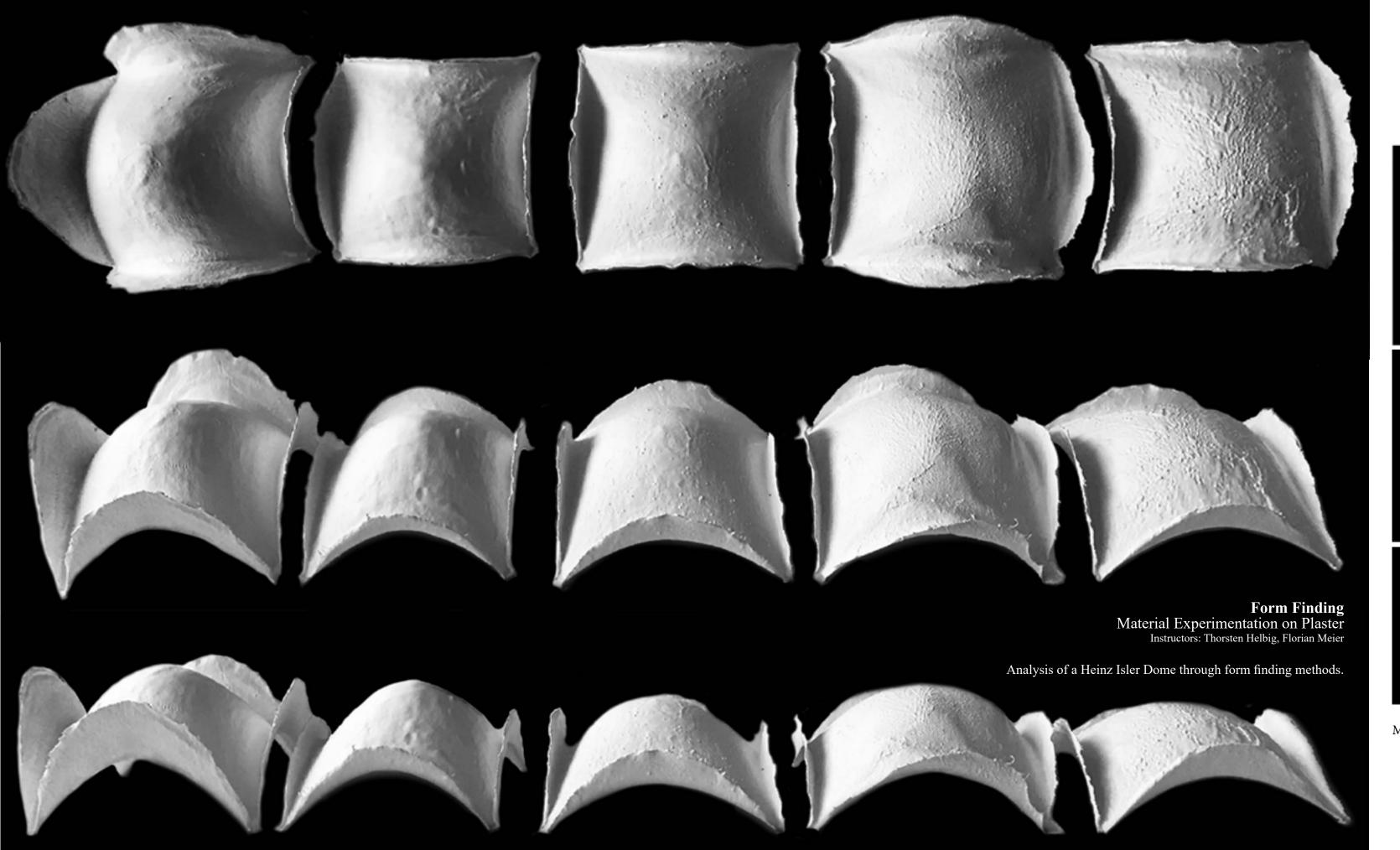


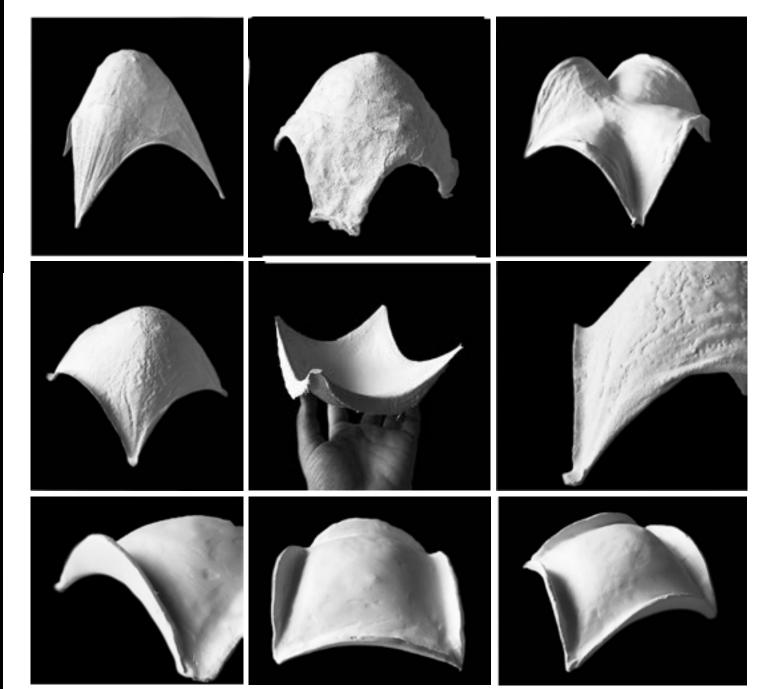


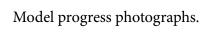








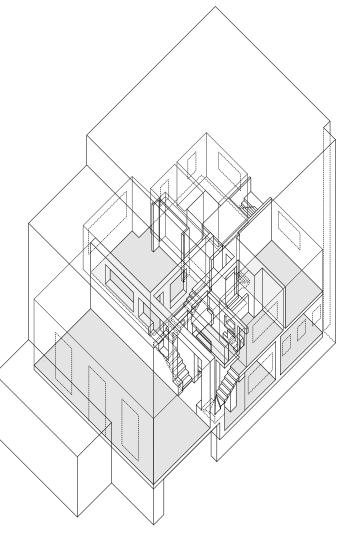


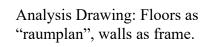


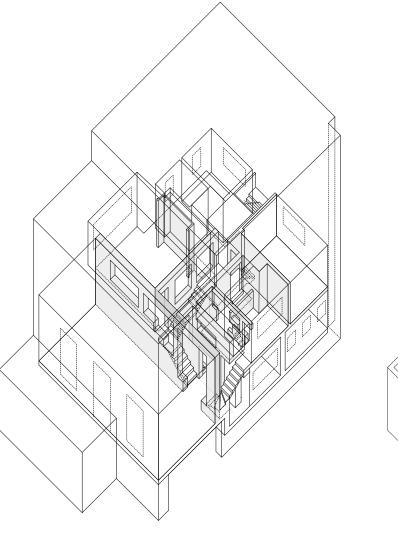


Model making process.

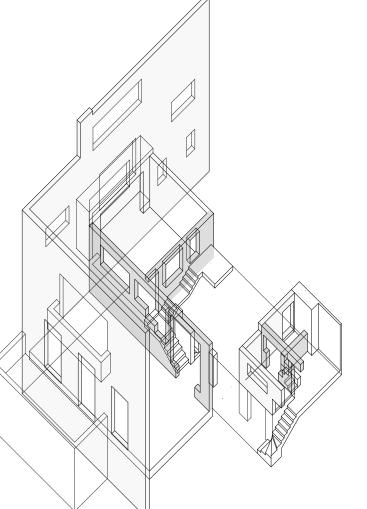


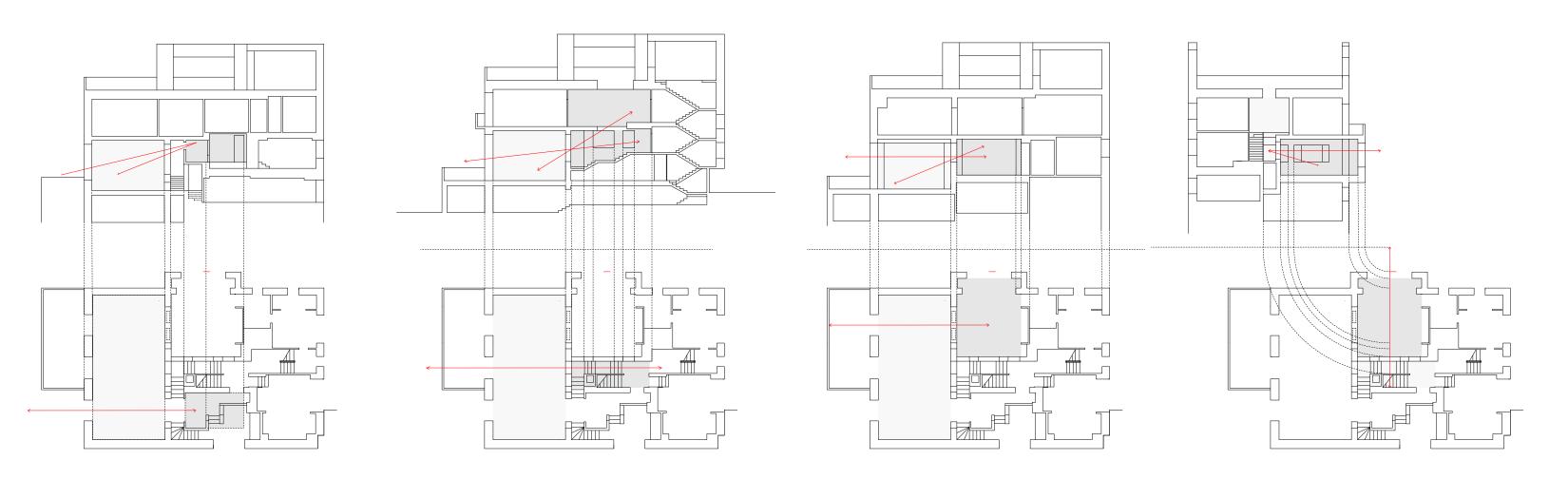


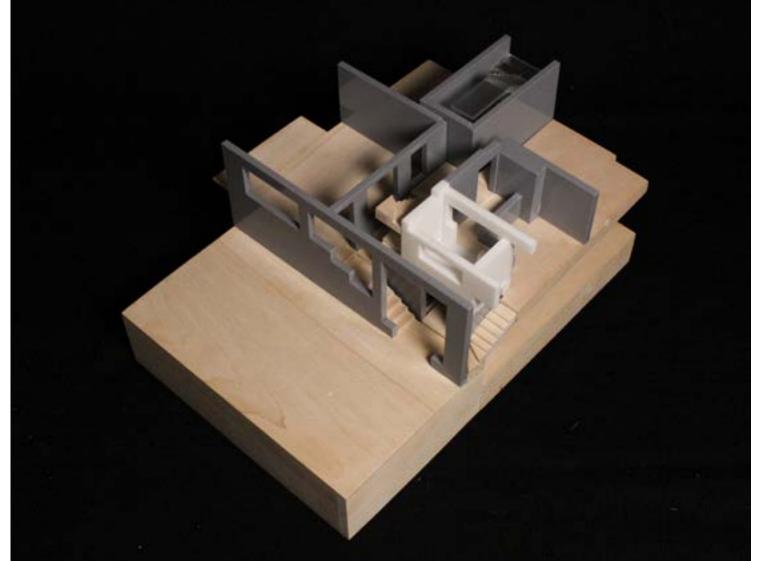


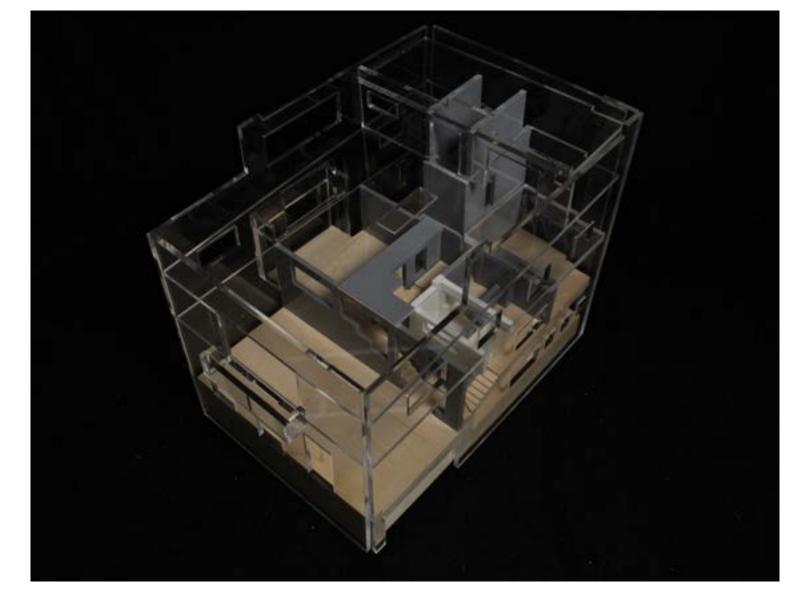


Analysis Drawing: Room within room, snail house, and rooms sandwich between walls





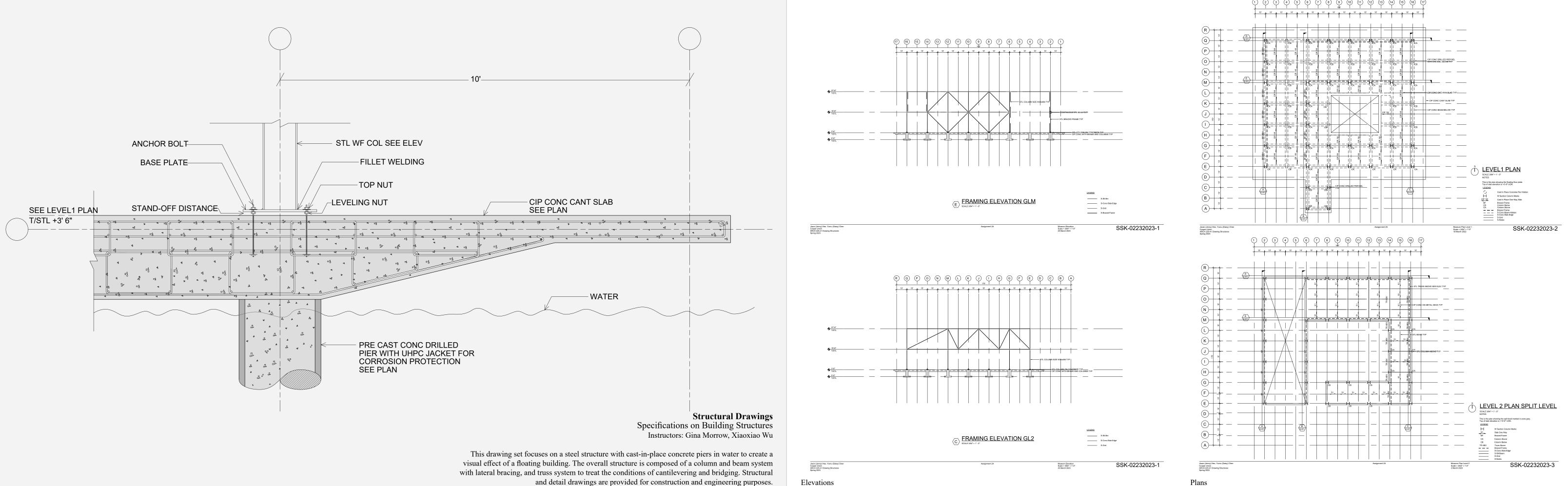


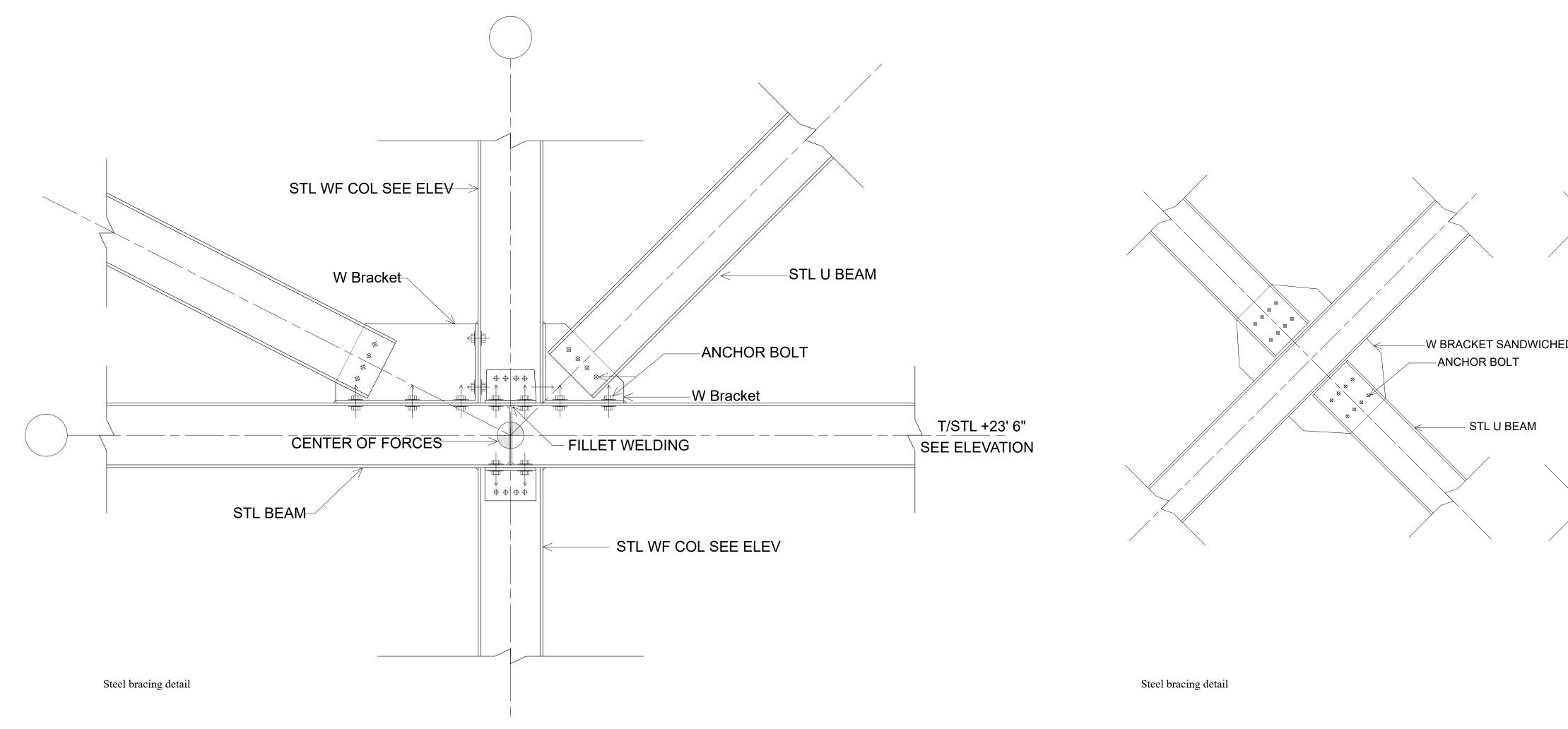


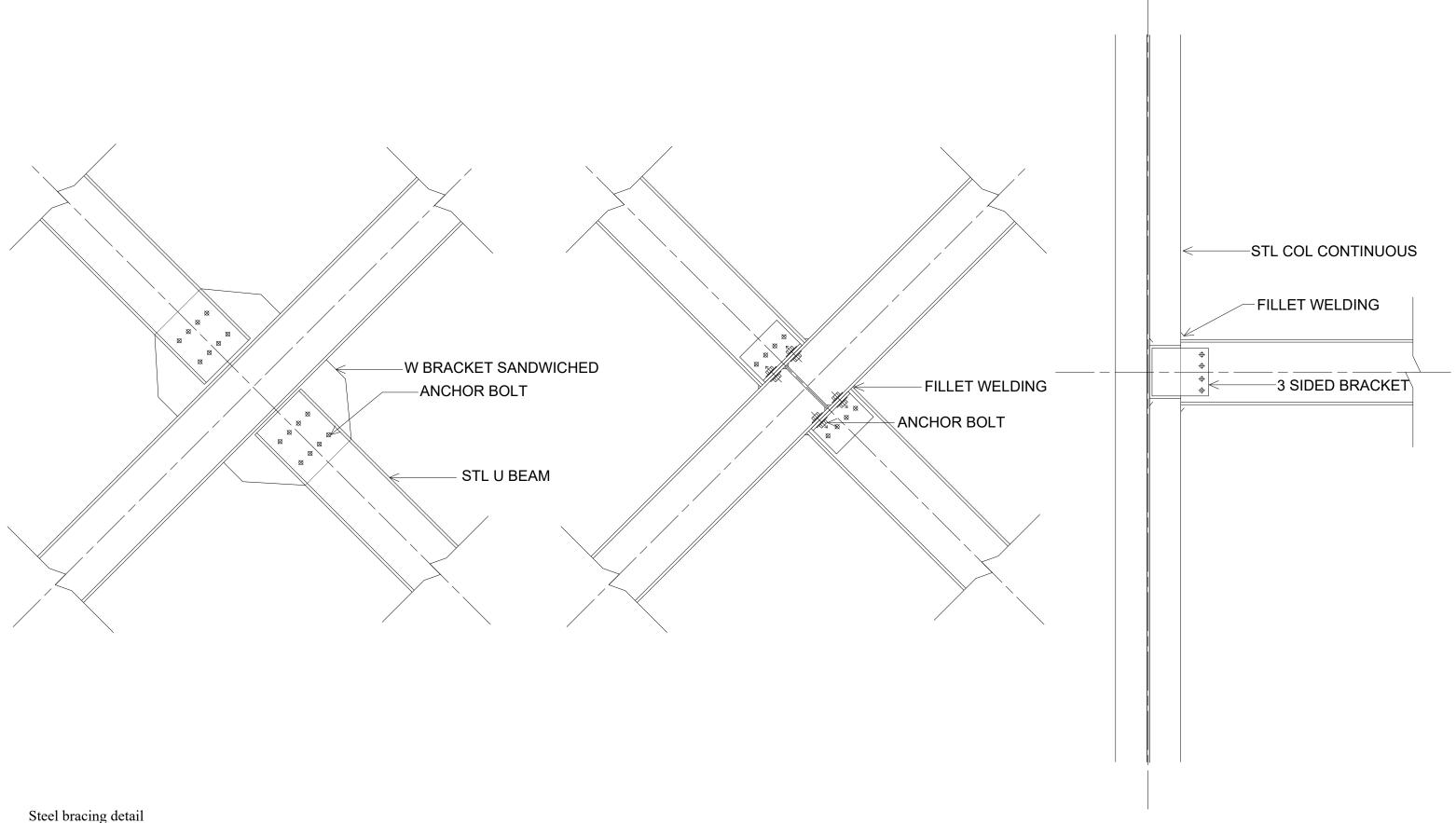
Analysis Drawing: Walls as framing device through spaces lays on axis.

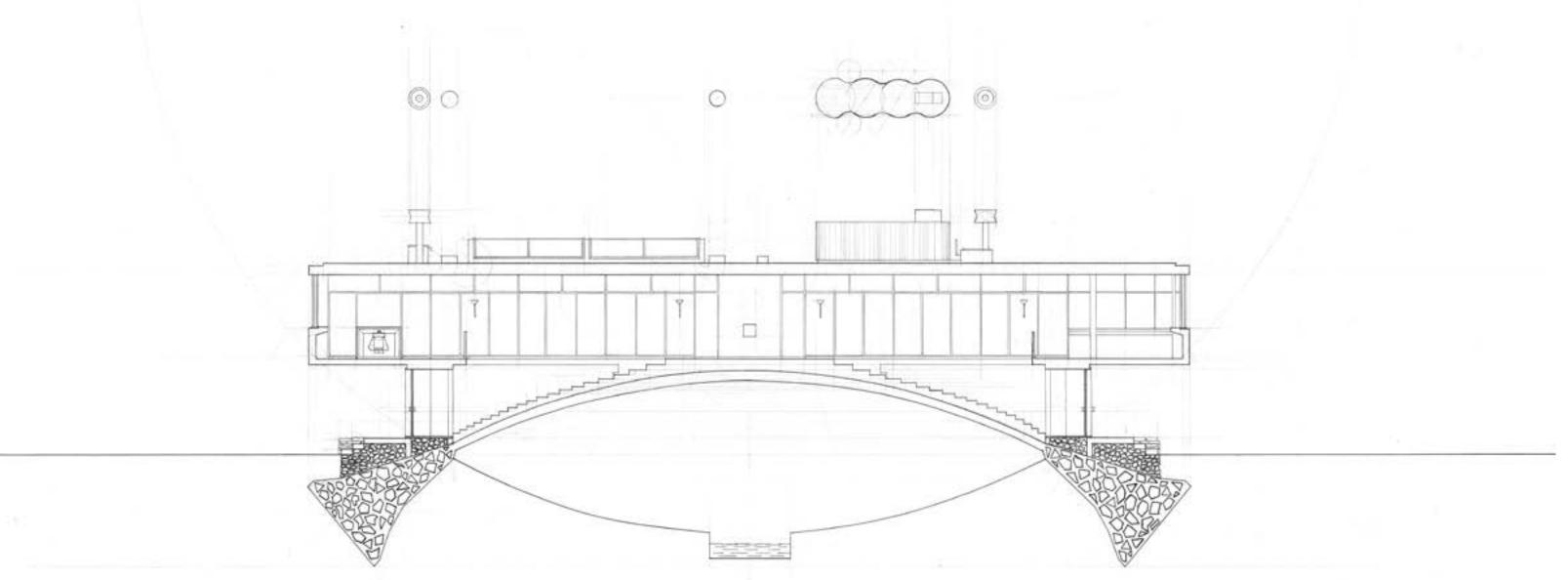
Model Photograph

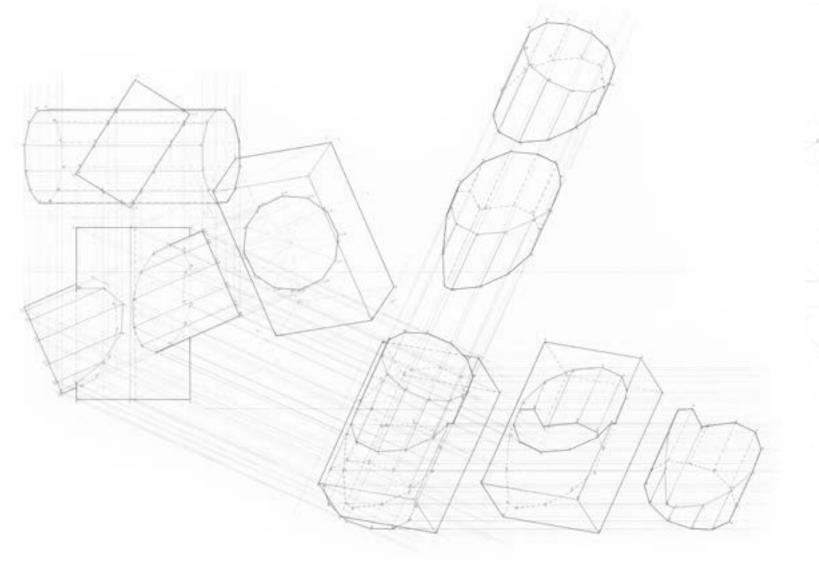
Model Photograph

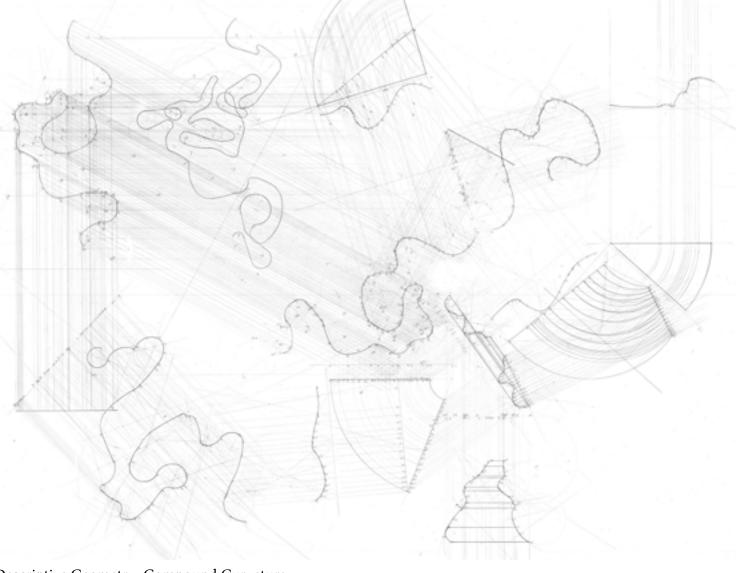












Descriptive Geometry: Intersection

Descriptive Geometry: Compound Curvature

Representation: Drafting, Freehand Drawings, Photography
Instructors: James Lowder, Sue Gussow, Erieta Attali, Michael Jefferson

These drawings are practices in understanding the fundamentals of architectural representations: spatial orientations, compositions, tones, light, and the perception of space.









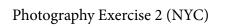
Figural Exercise 2

Figural Exercise 3 Figural Exercise 4











Photography Exercise 3 (NYC)



Photography Exercise 4 (NYC)

## ADDENDUM

## Collaborated Professional Works, A1-A12

MoMA Exhibition: The Project of Independence, Sada r Vallabhbhai Patel Municilal Stadium.	A1
Pei Cobb Freed & Partners: NEOM Competition, The Line Project in Saudi Arabia.	A3
NADAAA: University of Nebraska Lincoln Architecture Studio Addition.	A7

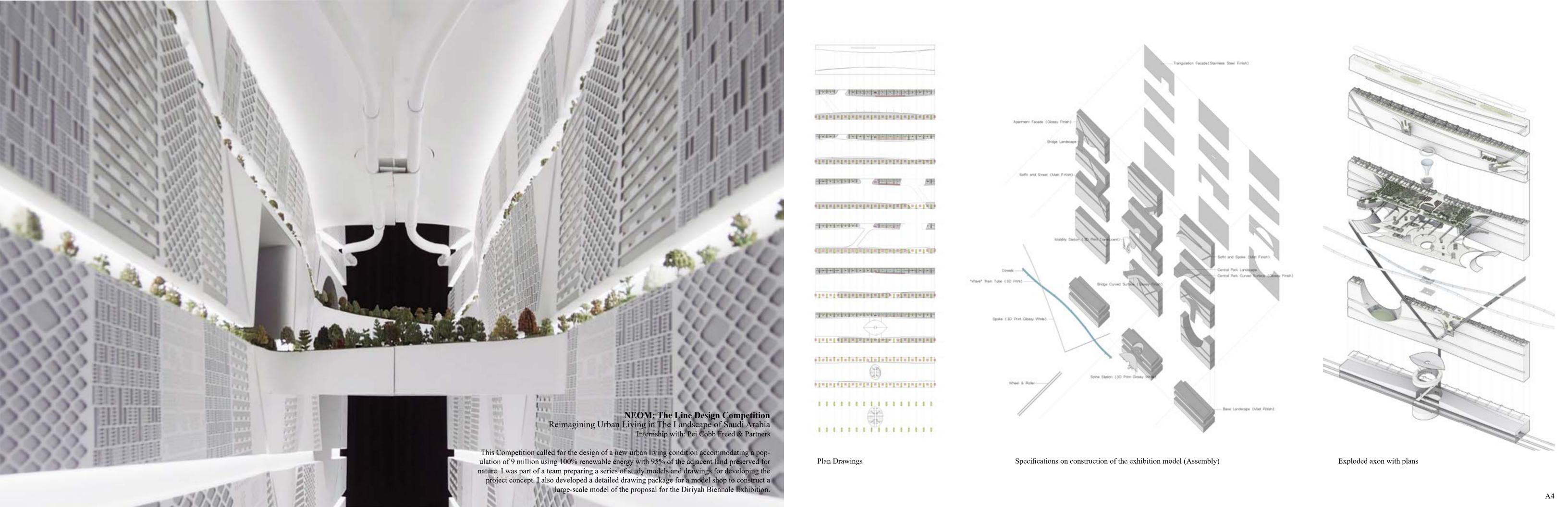


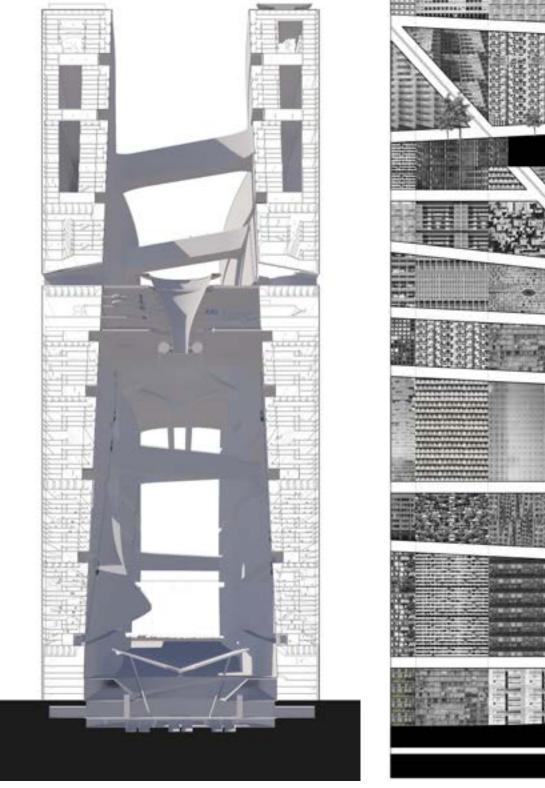




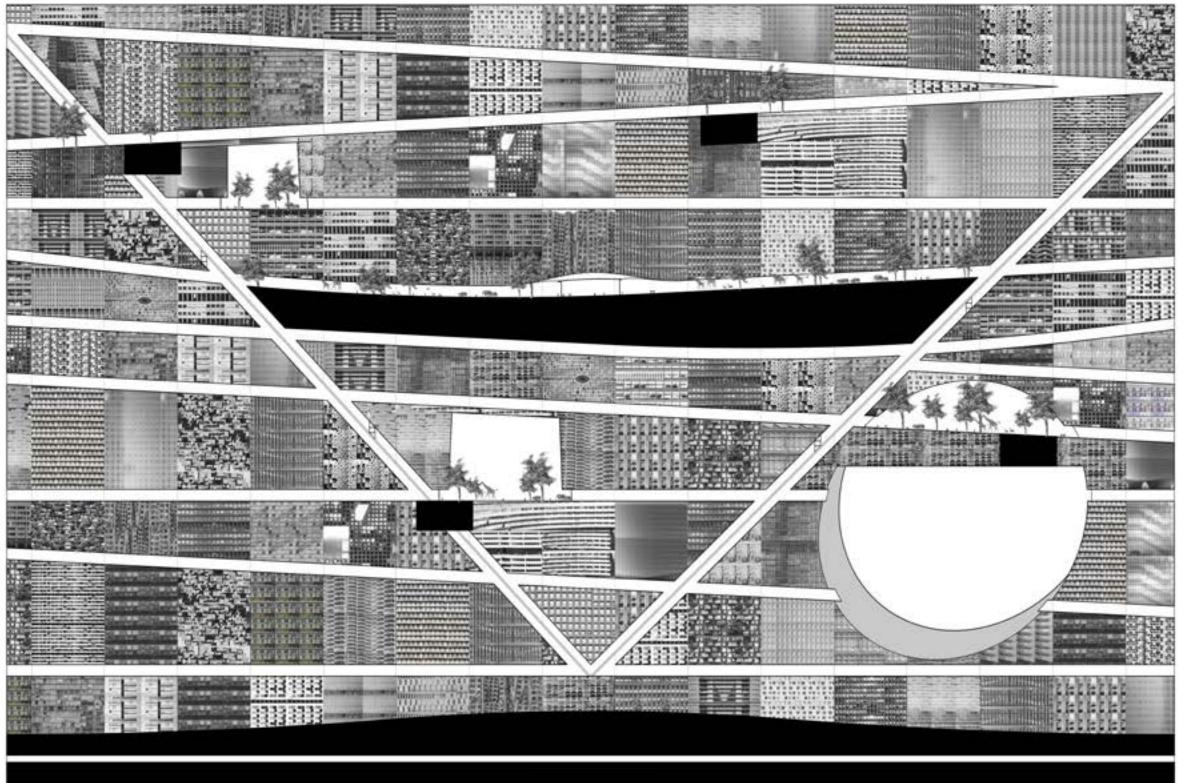








Typical Section Drawing.



Conceptual Facade Elevation



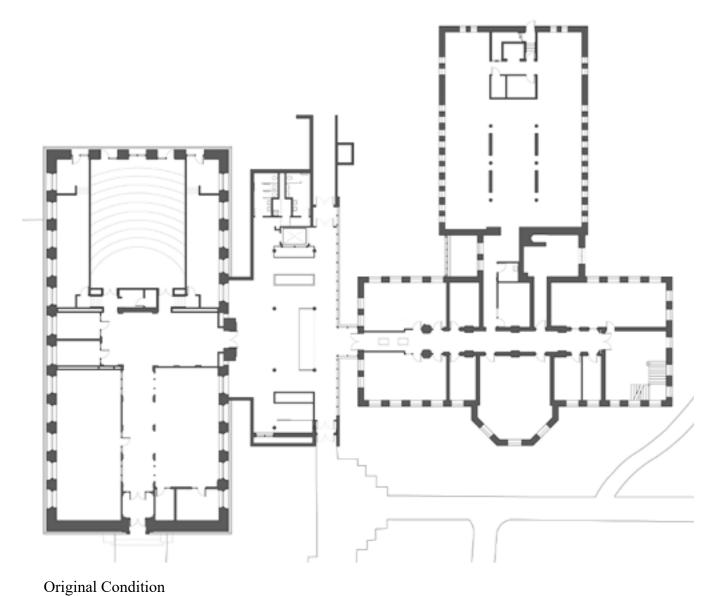
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Models at varied scales photographs

A5

# NADAAA: University of Nebraska-Lincon College of Architecture Mass Timber Structure Campus Building Addition Internship with: NADAAA

This was a fast-track mass timber project for the renovation and expansion of an architecture studio to accommodate the need for additional academic spaces: studios desks, pinup walls, a workshop, conference spaces, etc. The project connects three main programs at different levels. The use of a "hammerhead" typology offers an efficient circulation for the existing urban condition as well as the interior of the building. I prepared a series of façade studies to ensure the maximum amount of natural lighting in the studio spaces. As well as budget related adjustments.











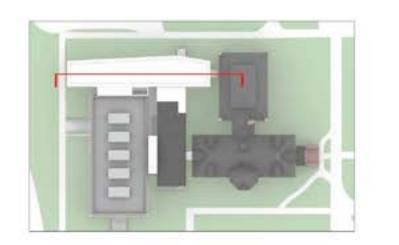


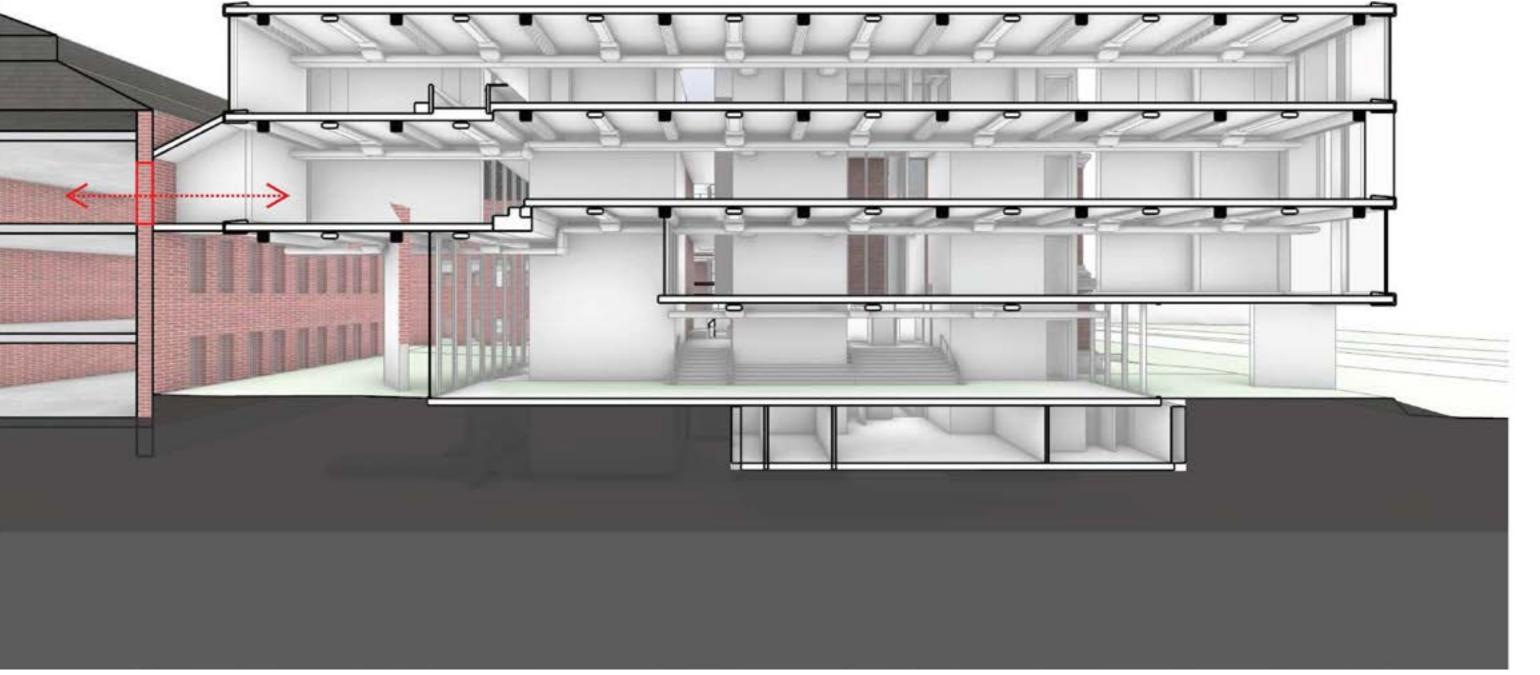






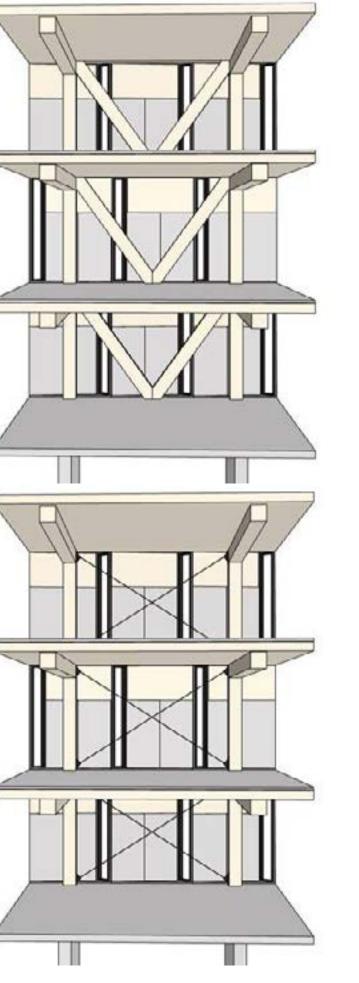
Facade Options





Selections From Schemetic Design Review Stage Drawing Set







Timber Construction structure Lateral Bracing System Options