

V1

2025

MAVERICS



MORGAN

SELECTED WORK



Marcus Morgan

Welcome to my portfolio. My name is Marcus Morgan, and I am an aspiring architect. Enclosed within this book are select works that exemplify my recent endeavors. My fervent admiration for the natural world and the ongoing evolution of environmental design profoundly informs my architectural pursuits, characterized by a keen focus on landscape integration and overarching ecological considerations.

Central to my ethos is my unwavering dedication to creativity, innovation, progress, and the continual refinement of architectural practice. This commitment propels my endeavors, propelling me to produce work that not only meets but exceeds exemplary standards.

Furthermore, I am deeply intrigued by the historical narrative of art and architecture. The symbiotic relationship between cultures and their influence on architectural language serves as a captivating point of study for me. This fascination permeates my design methodology, as I endeavor to synthesize elements from various historical architectural epochs while concurrently exploring innovative and contemporary approaches to their reinterpretation.

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SHROUDS & THRESHOLDS



02

MULTI UNIT HOUSING



03

THE ECO - PAVILION



04

DIGITAL CONSTRUCTS



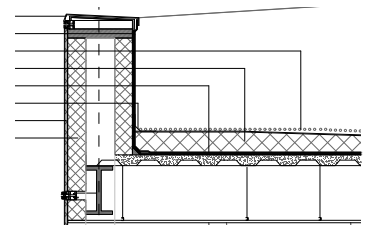
05

VIEW HOUSE



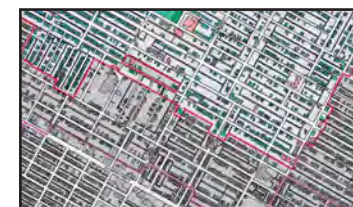
06

CONSTRUCTION SYSTEMS



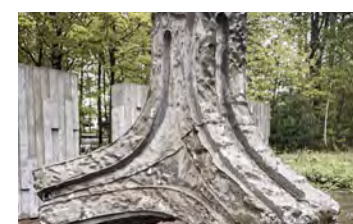
07

CASE STUDY



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Y - WAVE



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01

PROFESSOR: MATHEW LOPEZ
LOCATION: ROME, ITALY
PARTNER: SCOTT SIGMUND

SHROUDS AND THRESHOLDS

The Civic Center situated in Piazza del Parlamento, Rome, Italy, emerges as a deliberate response to the formidable challenges posed by the city's unwavering commitment to historical preservation in the context of a rapidly evolving contemporary world. This architectural endeavor critically engages with the site's historical legacy, offering a nuanced reflection on the physical history of Rome. In alignment with the broader narrative of major Western cities, Rome grapples with multifaceted 21st-century challenges.

The conceptualization and design of this Civic Center were strategically conceived to confront and navigate these contemporary issues while concurrently reclaiming urban space for the citizens of Rome. It is noteworthy that the prevailing landscape of Rome, both spatially and demographically, is heavily influenced by tourism. In response, the Civic Center serves as a pivotal embodiment of a communal space tailored to the needs of the Roman populace, acting as a sanctuary amidst the pervasive touristic influx. Through thoughtful design, this architectural intervention seeks to establish a harmonious balance between historical preservation, urban functionality, and the reclamation of public space for the residents of Rome.

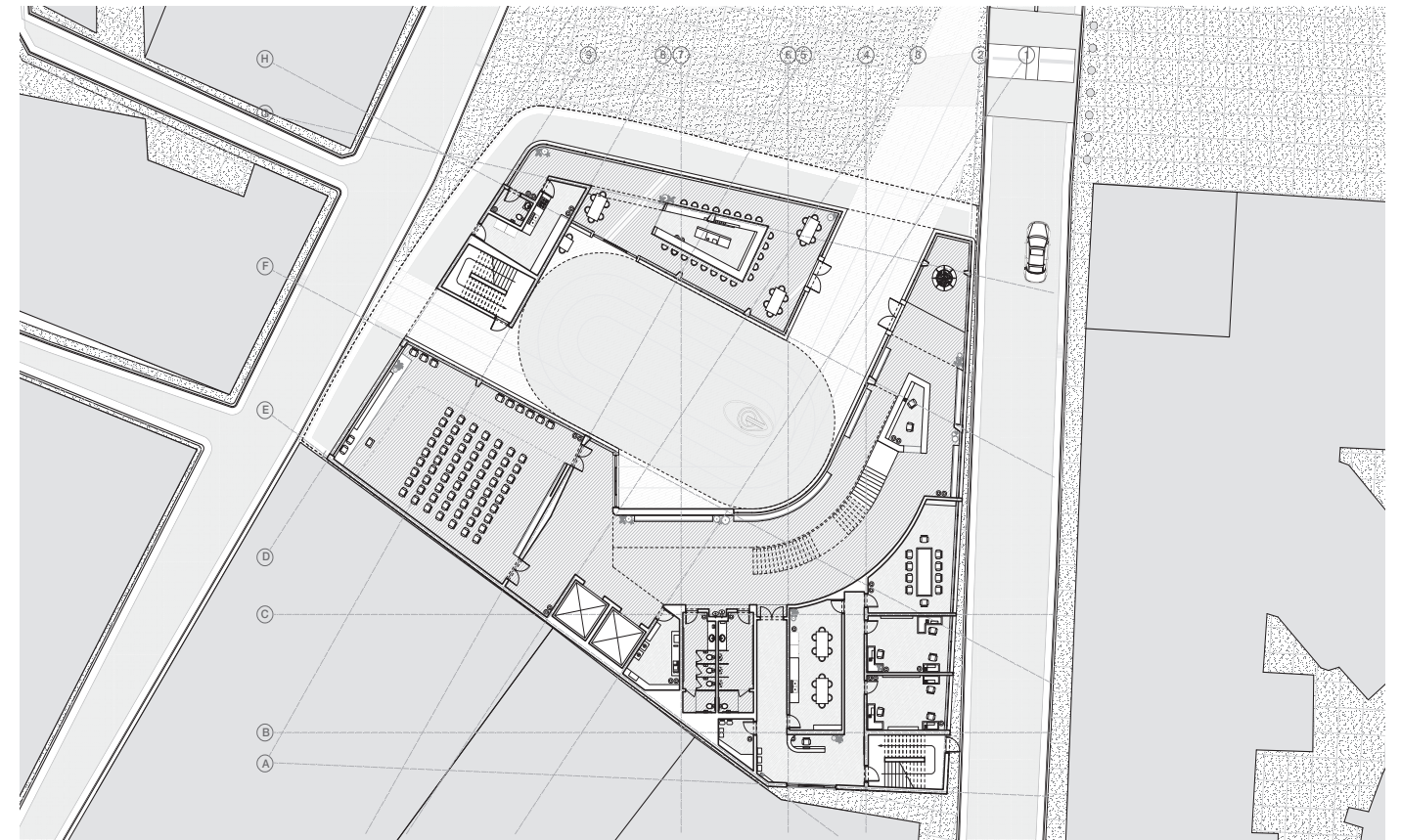
FALL 2023





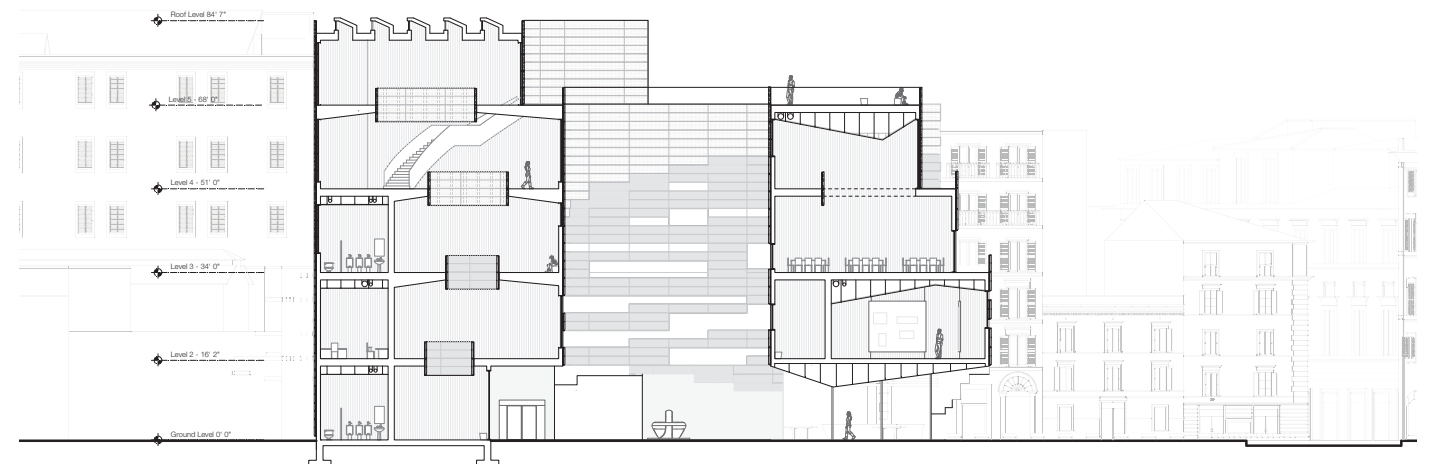
North Facade

Front and Side Entrance Street View



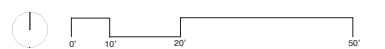
Ground Floor Plan

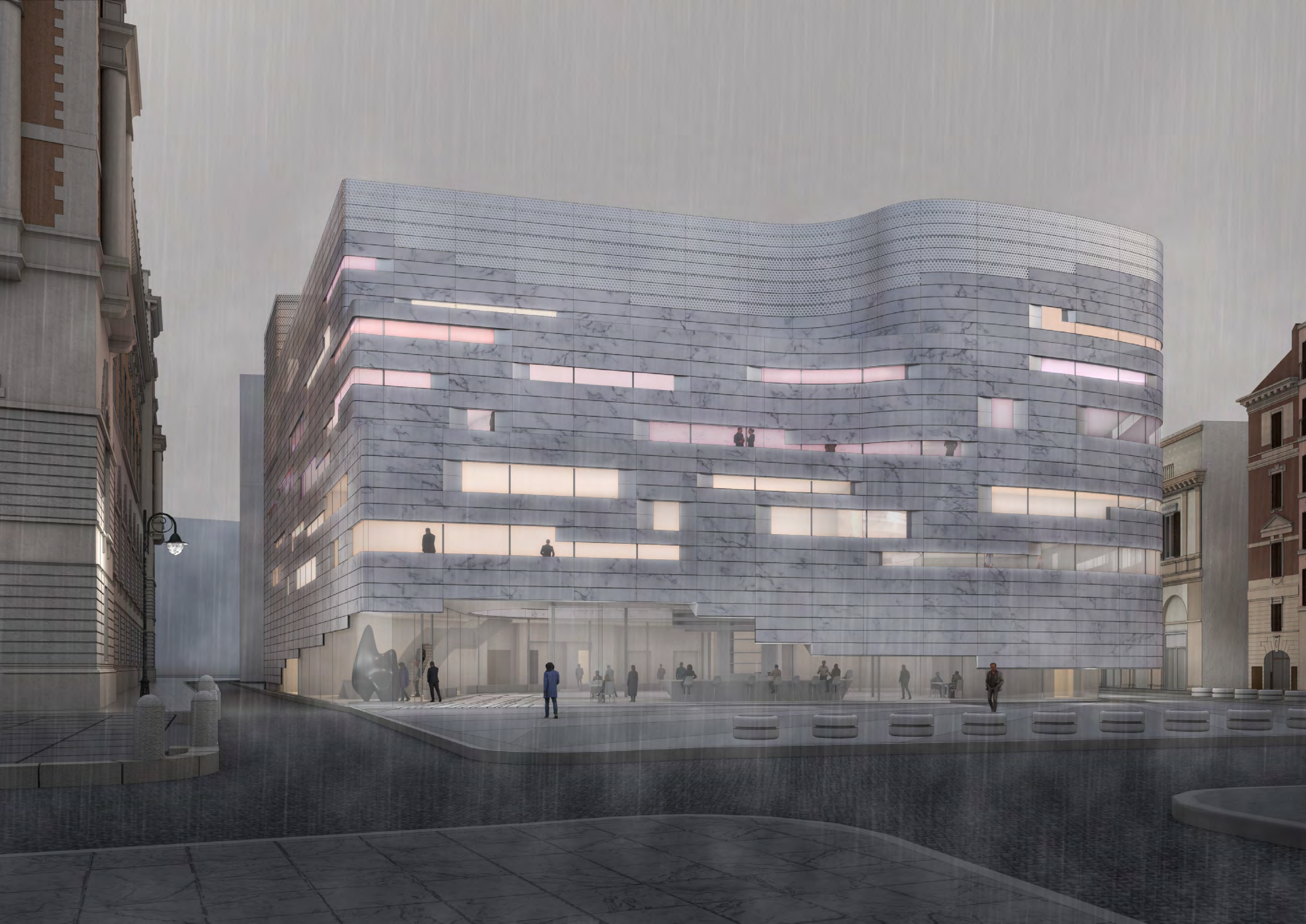
Illustrates the intricate and dynamic pattern of circulation that permeates throughout the interior of the courtyard, showcasing the fluid movement and connectivity within its confines.

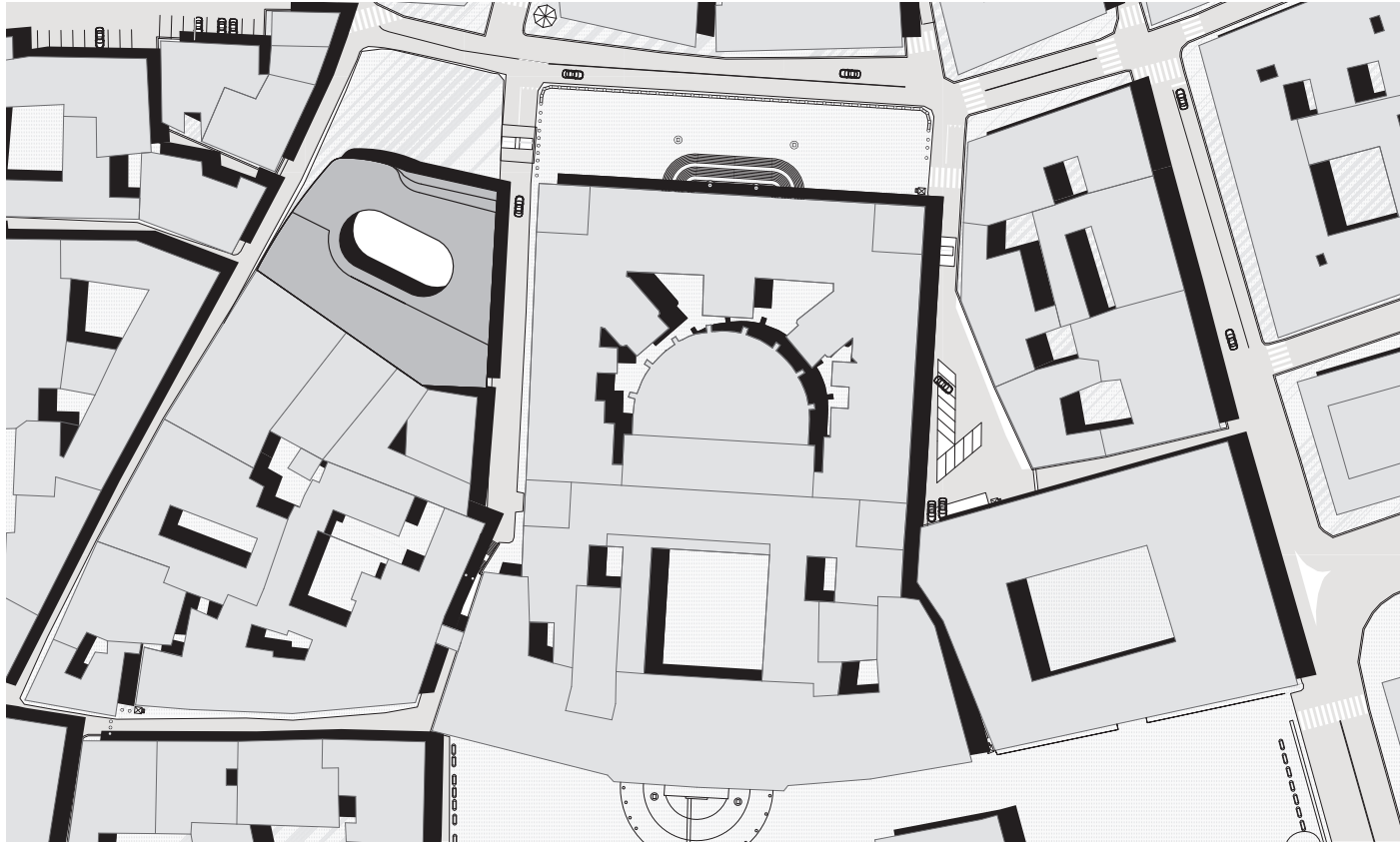


Section 2

Showing how levels and spaces connect, highlighting the courtyard's central role in the building.

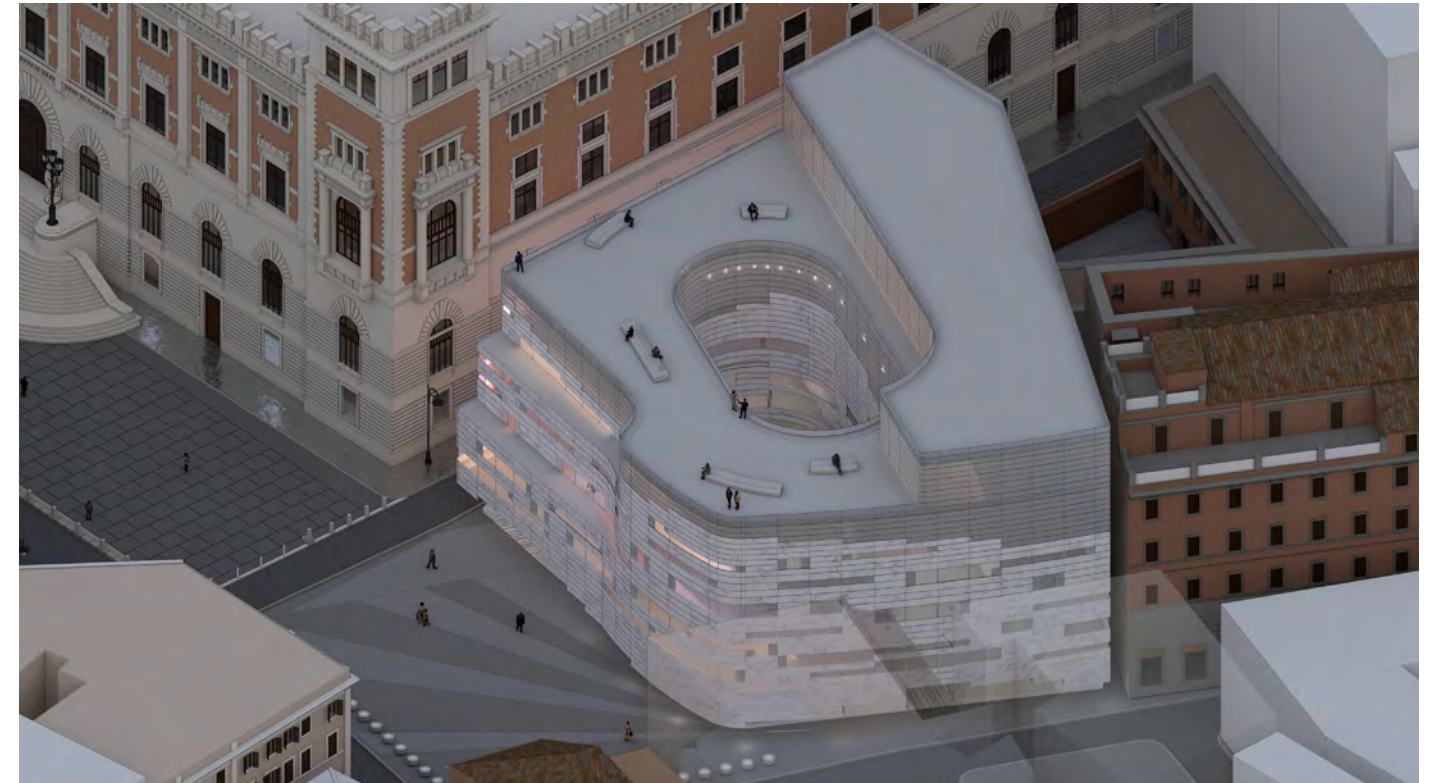






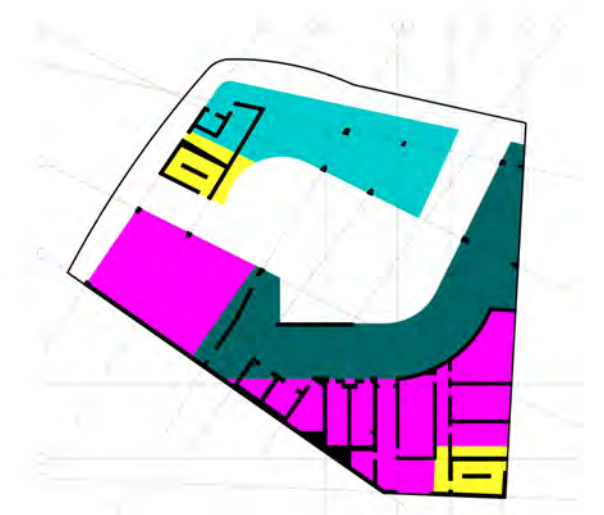
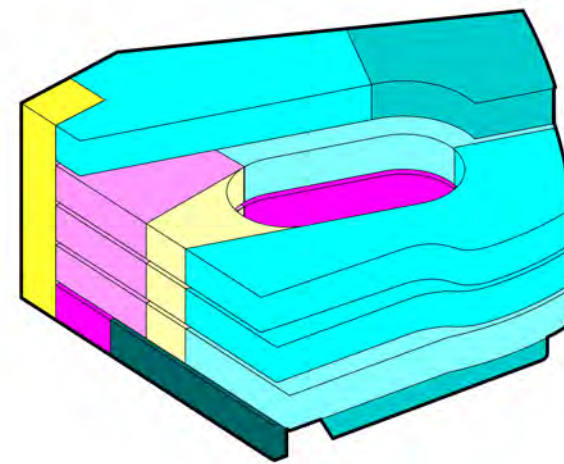
Site Plan

Governmental building on the right, public and retail on the left, forming an intriguing middle ground where private and government meet the public.



Aerial View

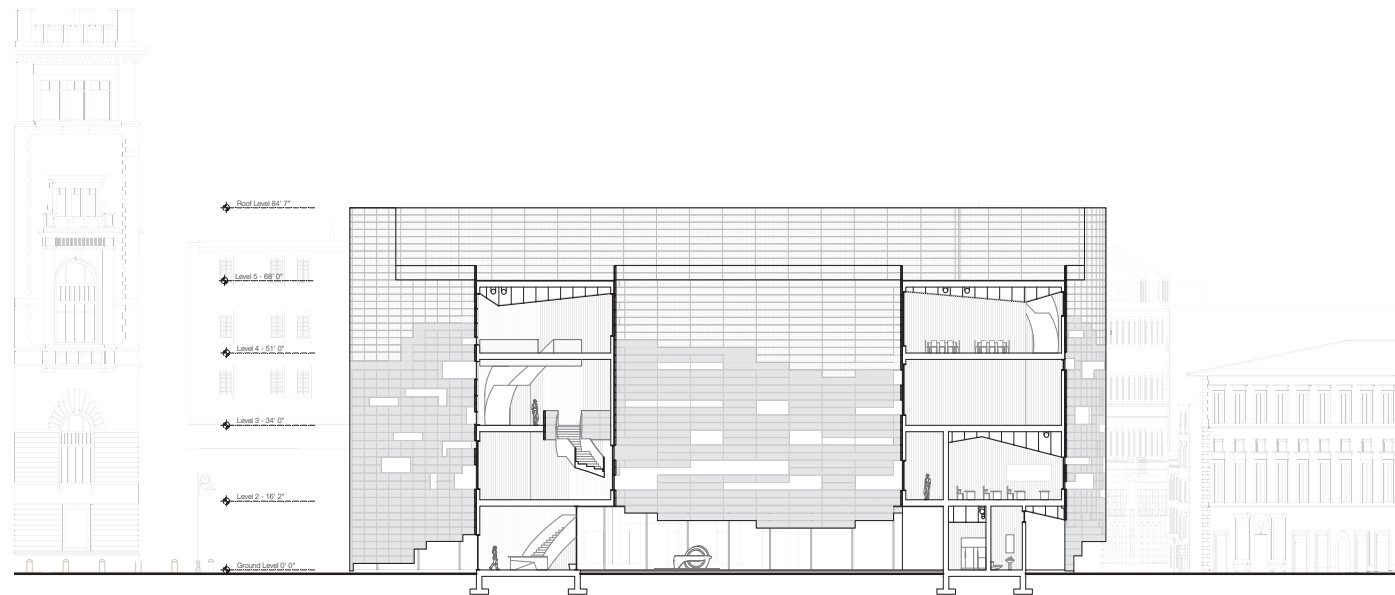
The roof is designed to be accessible to the public, offering a designated space for individuals to convene, socialize, and engage in various activities.



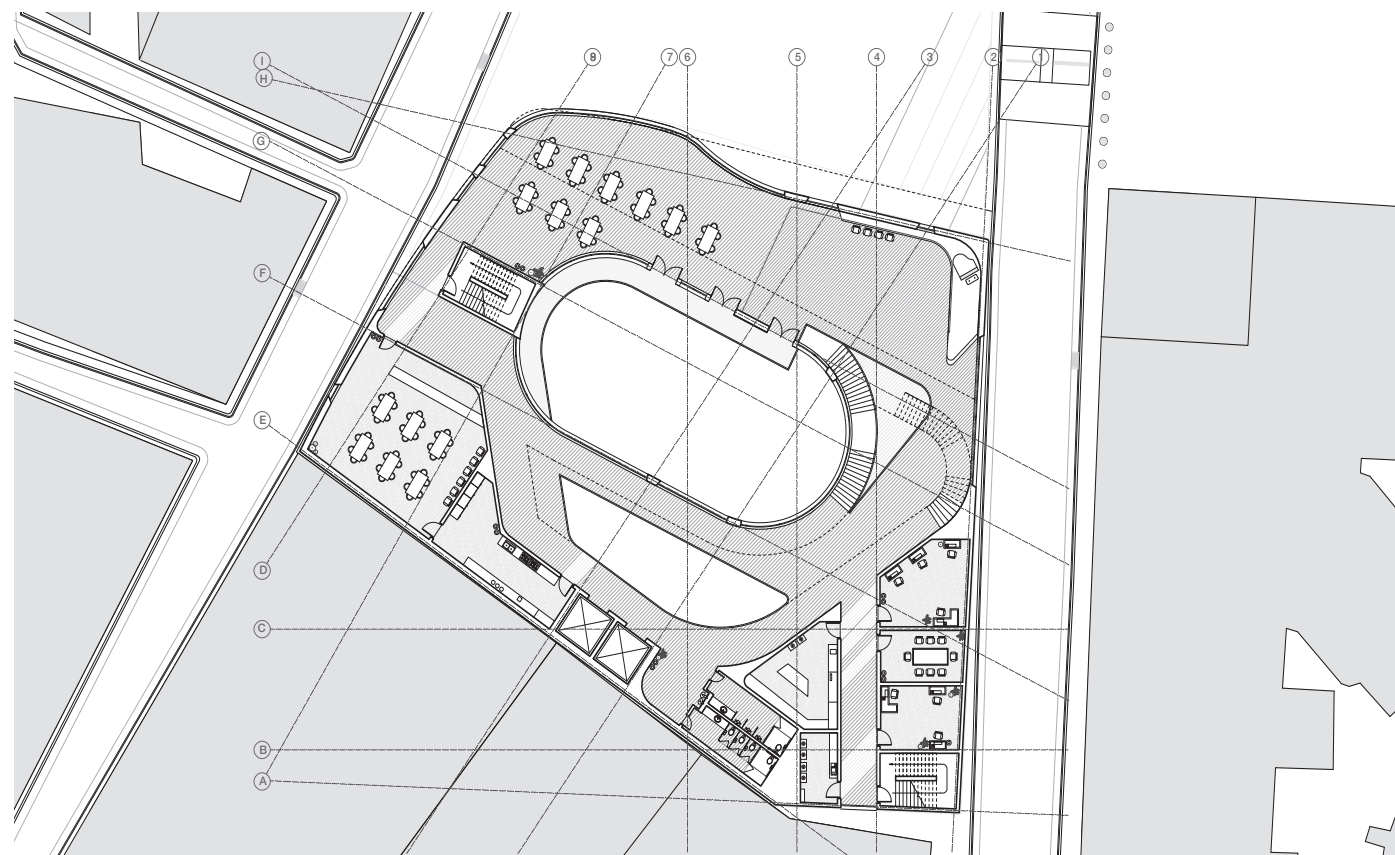
Parti

Color-coded zones—cyan for public spaces, pink for private areas, and yellow for circulation pathways

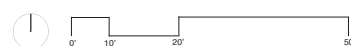




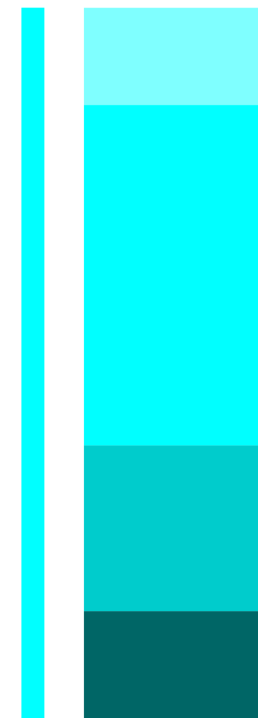
Section 1



Level 2 Plan



Public
35,701 Sqf

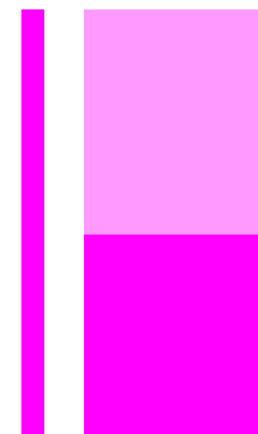


Event Space
13,934 Sqf

Cafe/Food
5,355 Sqf

Lobby
3,011 Sqf

Private
24,064 Sqf



Office/ Conferenc
12,052 Sqf

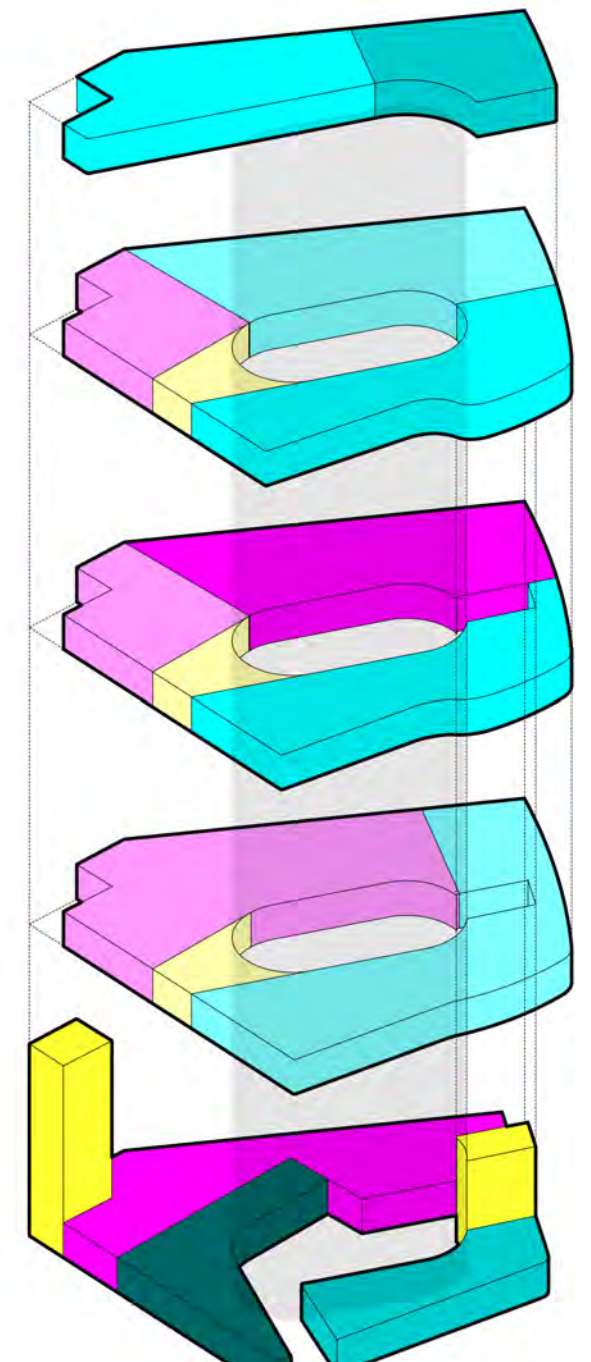
Government
12,012 Sqf

Circulation
6,287 Sqf



Vertical Circulatio
2,664 Sqf

Egress
3,623 Sqf



Program

Color-coded zones—cyan for public spaces, pink for private areas, and yellow for circulation pathways

O2

PROFESSOR: Yael Erel
LOCATION: Troy, New York
PARTNER: Scott Sigmund

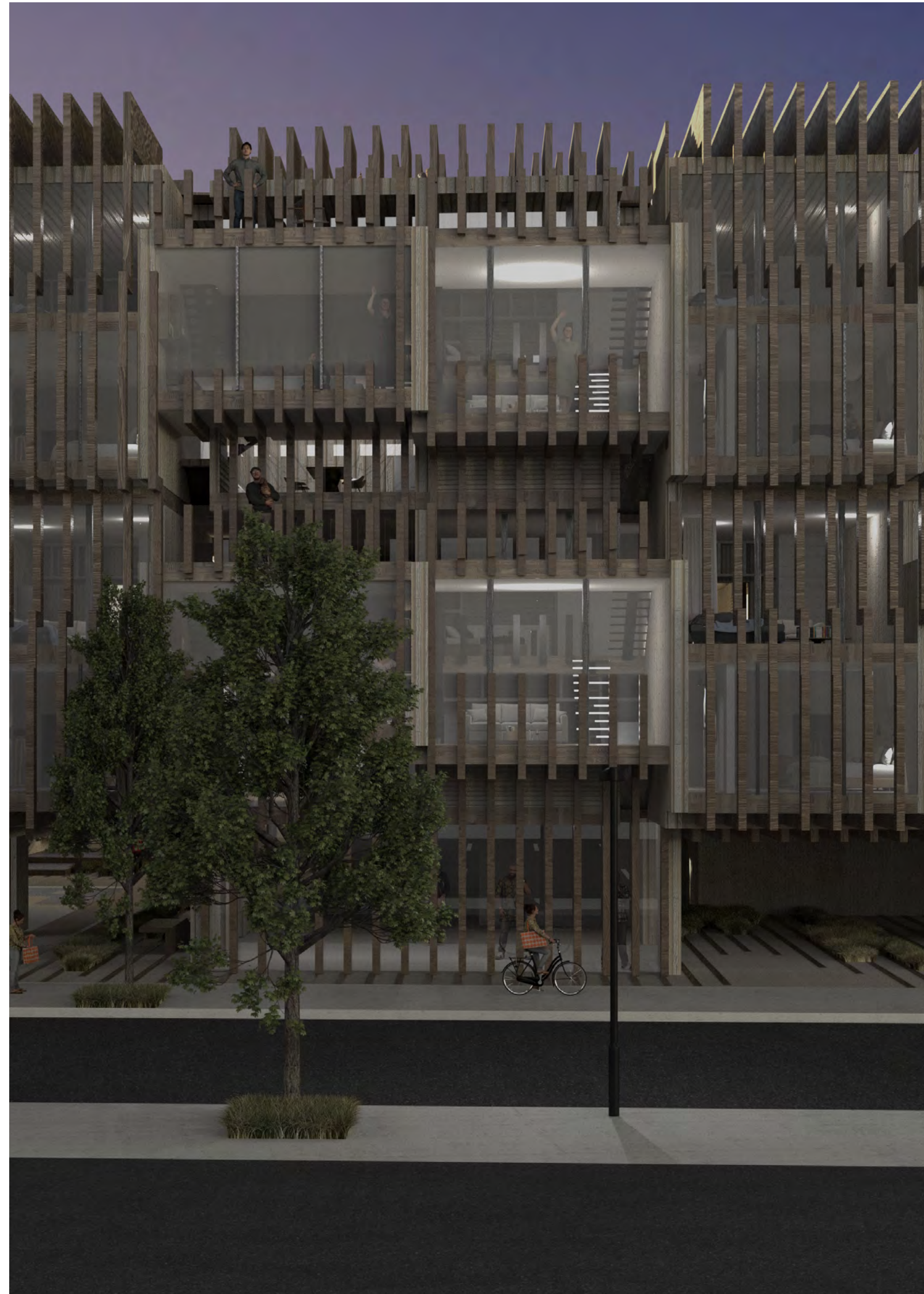
MULTI UNIT COLLECTIVE HOUSING

In response to the evolving challenges of urban living, this project reimagines housing in the heart of downtown Troy, focusing specifically on multi-unit collective housing. In a world where aspects of our lives are increasingly shared in collective spheres, our domestic spaces often remain rooted in the ethos of individual property and standalone structures. Traditionally manifested in post-World War II suburban developments, this approach is unsustainable in the face of rapid urbanization and escalating demands on the Earth's resources.

Embracing a global cultural necessity, this project envisions a mixed-use, multi-unit housing complex situated at the prominent intersection of Congress and Third Streets in downtown Troy, NY. Beyond mere architectural design, this undertaking is a conscious effort to materialize principles of exchange and communication within urban spaces. It seizes the opportunity to shape the city's form and materiality into meaningful daily experiences, recognizing that the act of designing housing is inherently socio-political.

By skillfully navigating the practical challenges of organizing an architectural program, the project achieves a harmonious balance between meeting users' needs and engaging in high levels of formal, material, and aesthetic experimentation. The result is a forward-thinking architectural solution that not only responds to its immediate context but also contributes to the broader discourse within the discipline.

SPRING 2023





Street View 1

The transparency and openness between the entryway leading to the courtyard from the street blur the distinction between public and private spaces. This battle between the realms of public and private is further emphasized by the expansive panes of glazing that break down the boundaries between privacy and public accessibility.



Model

Exploring the interior reveals a clever use of interlocking block geometry, maximizing space utilization. The visible facade incorporates environmental practices like daylighting and shading.

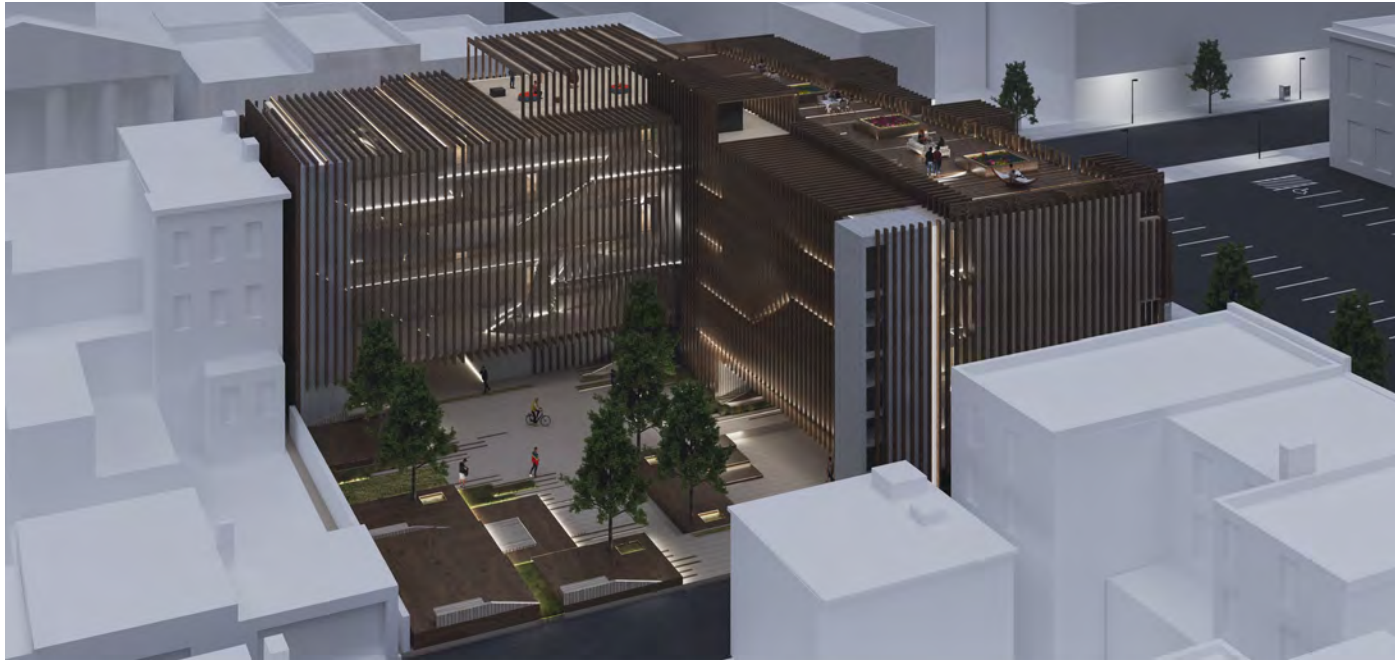


Ground Floor Plan



Level 2 and 4 plan





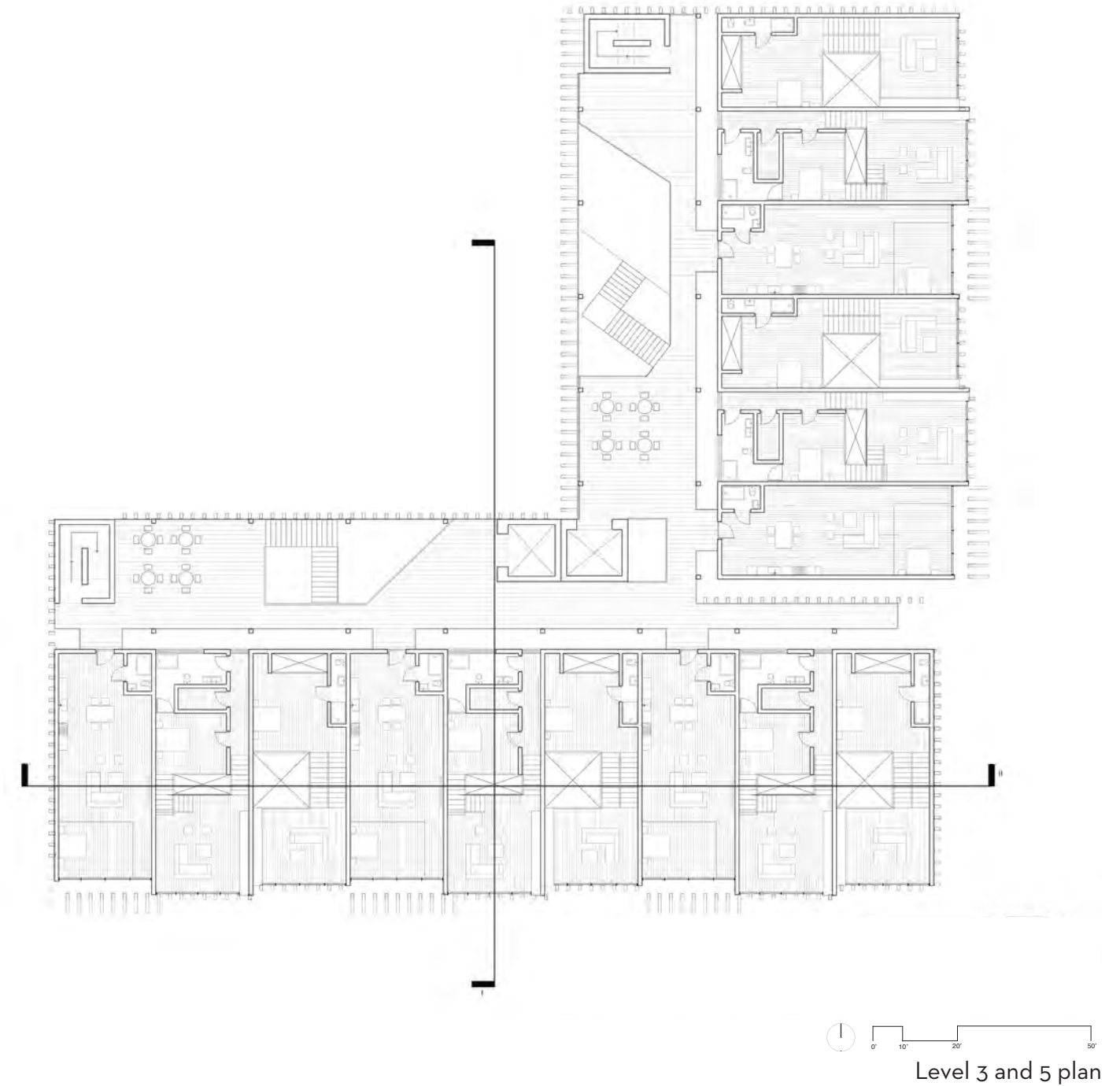
Courtyard Render

The courtyard stands as a key element, marking the division between private and public spaces. Situated within the architectural layout, it offers a visual and symbolic break, transitioning from enclosed privacy to shared openness. Serving as a tranquil retreat and a connecting hub, the courtyard embodies the balance between seclusion and sociability within the architectural framework.



Model Elevation

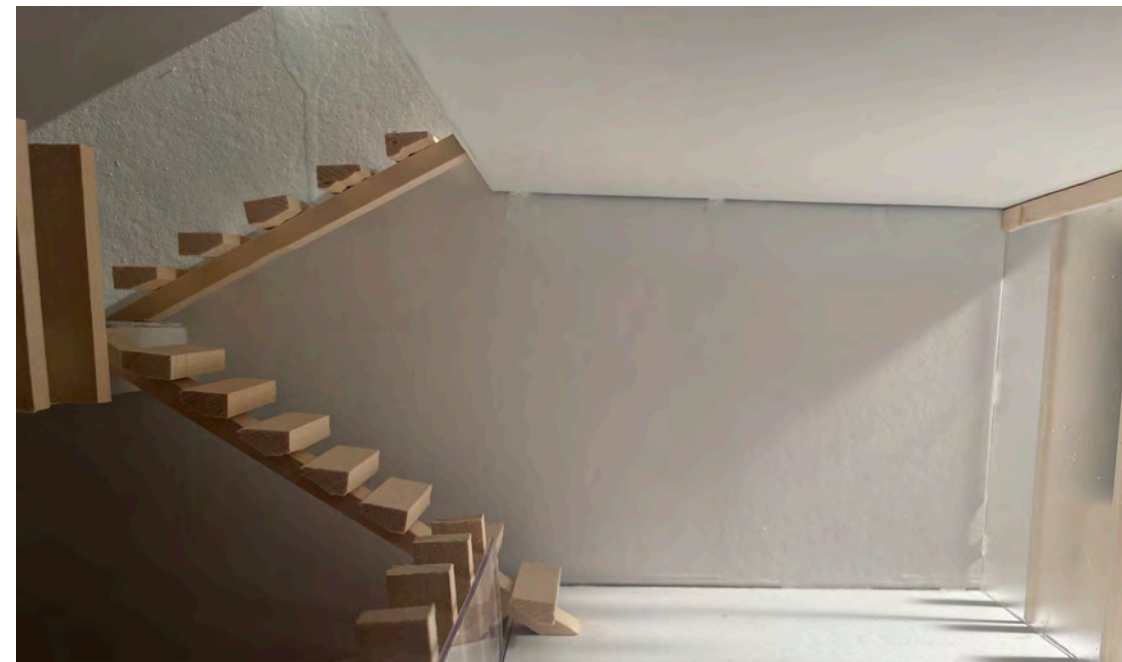
This is a direct look towards the facade and glazing of one of the single units.



Level 3 and 5 plan



Street View 2

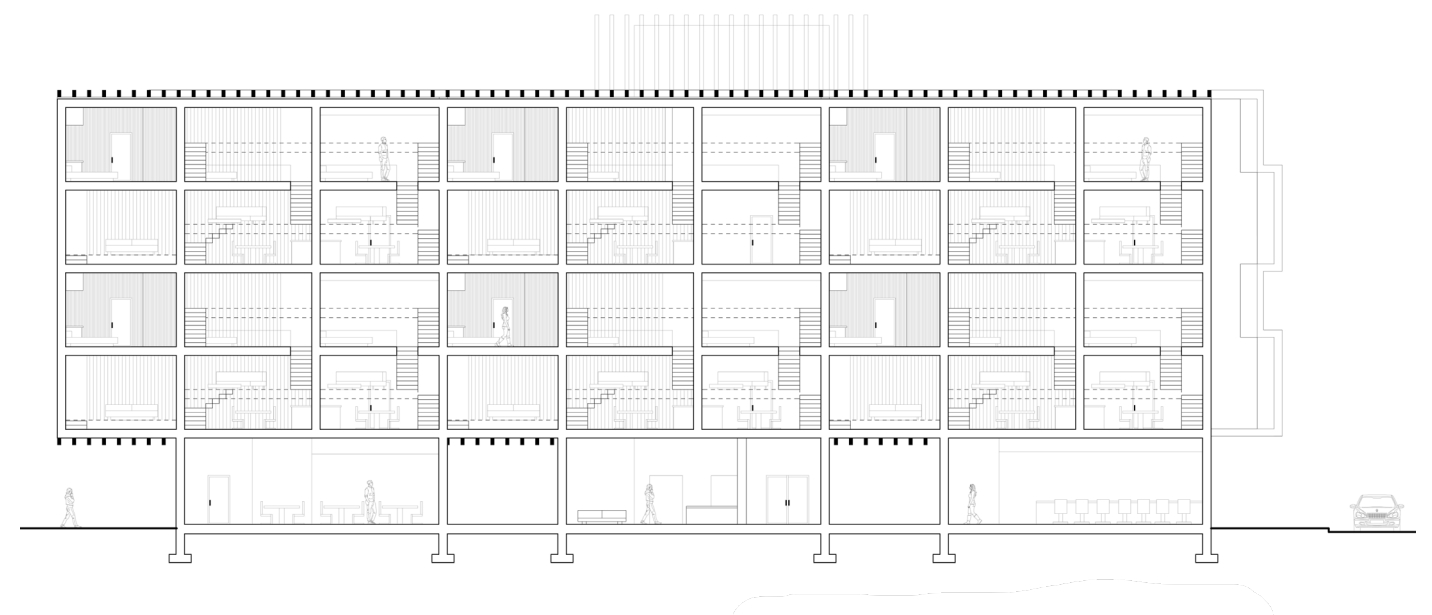
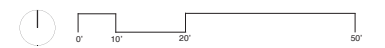


Model Interior

Interior look at elements at work.



Section 1



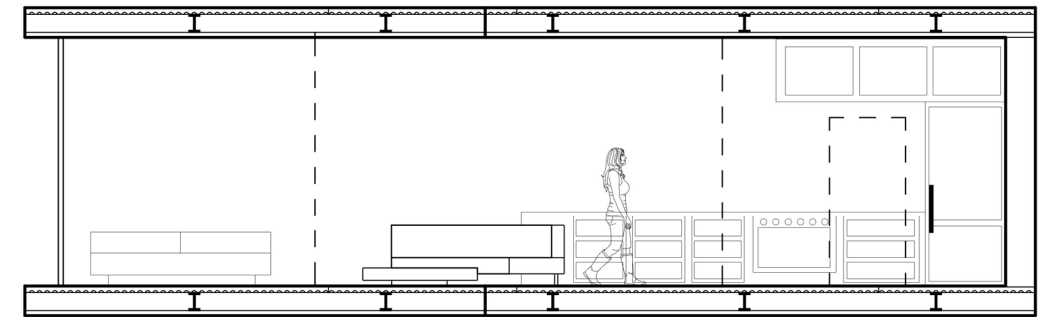
Section 2



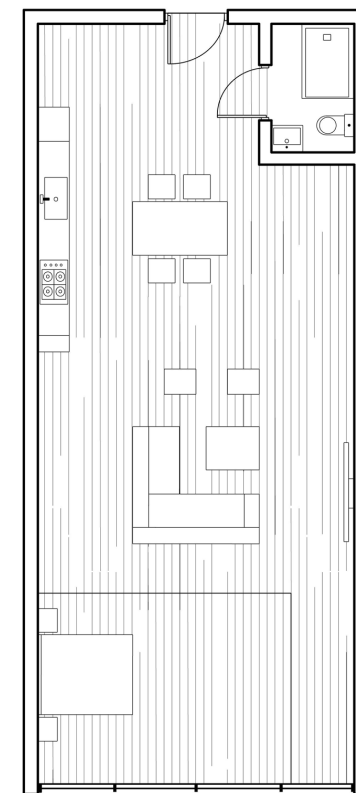


Studio

The design emphasizes natural ventilation throughout the space, leveraging strategic placement of glazing within the apartment to maximize airflow and enhance occupants' comfort. Through thoughtful integration of architectural elements, the space achieves an optimal balance of functionality and aesthetics, fostering a breathable and inviting environment.

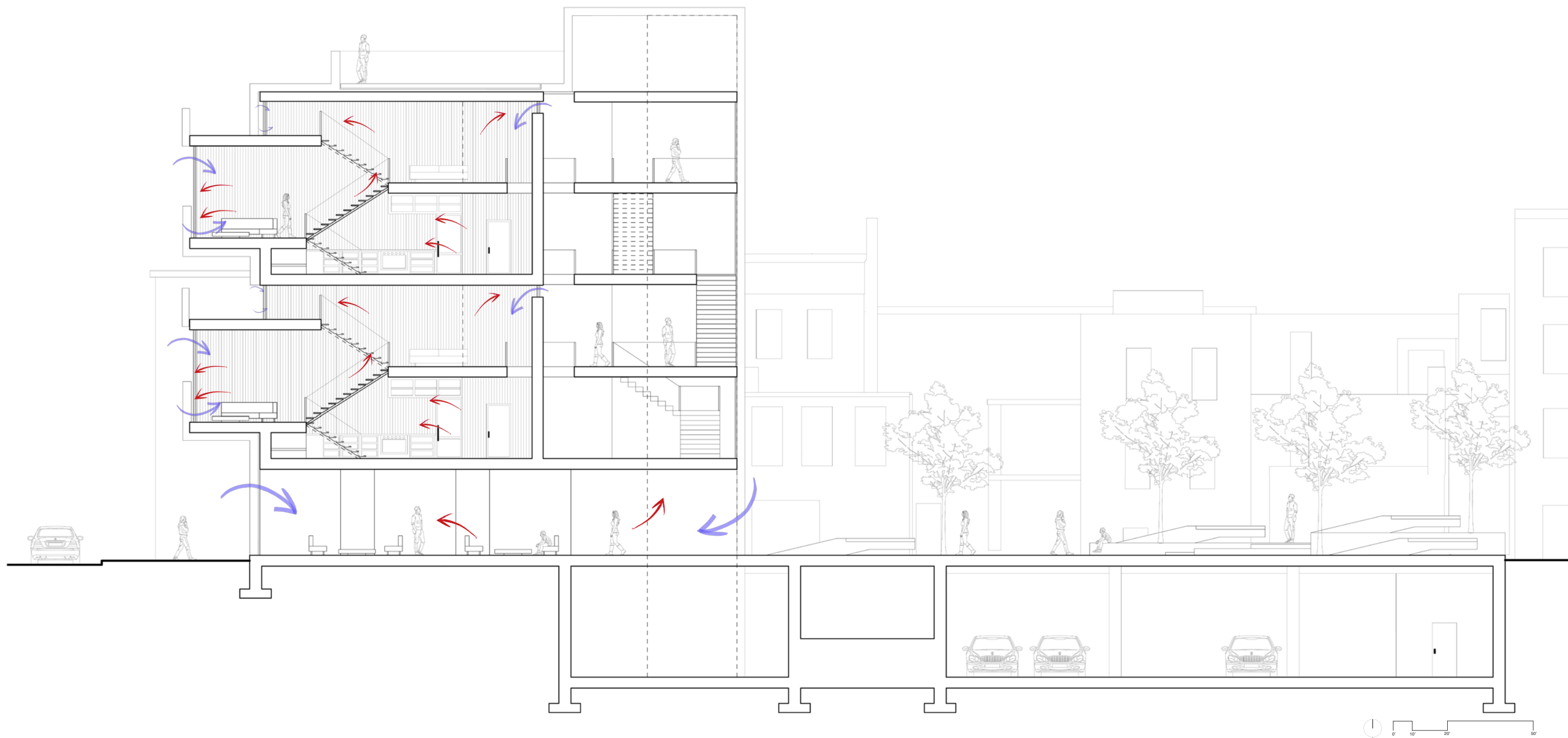


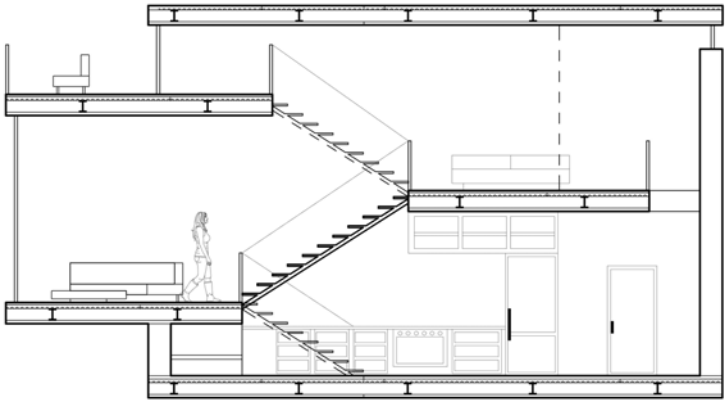
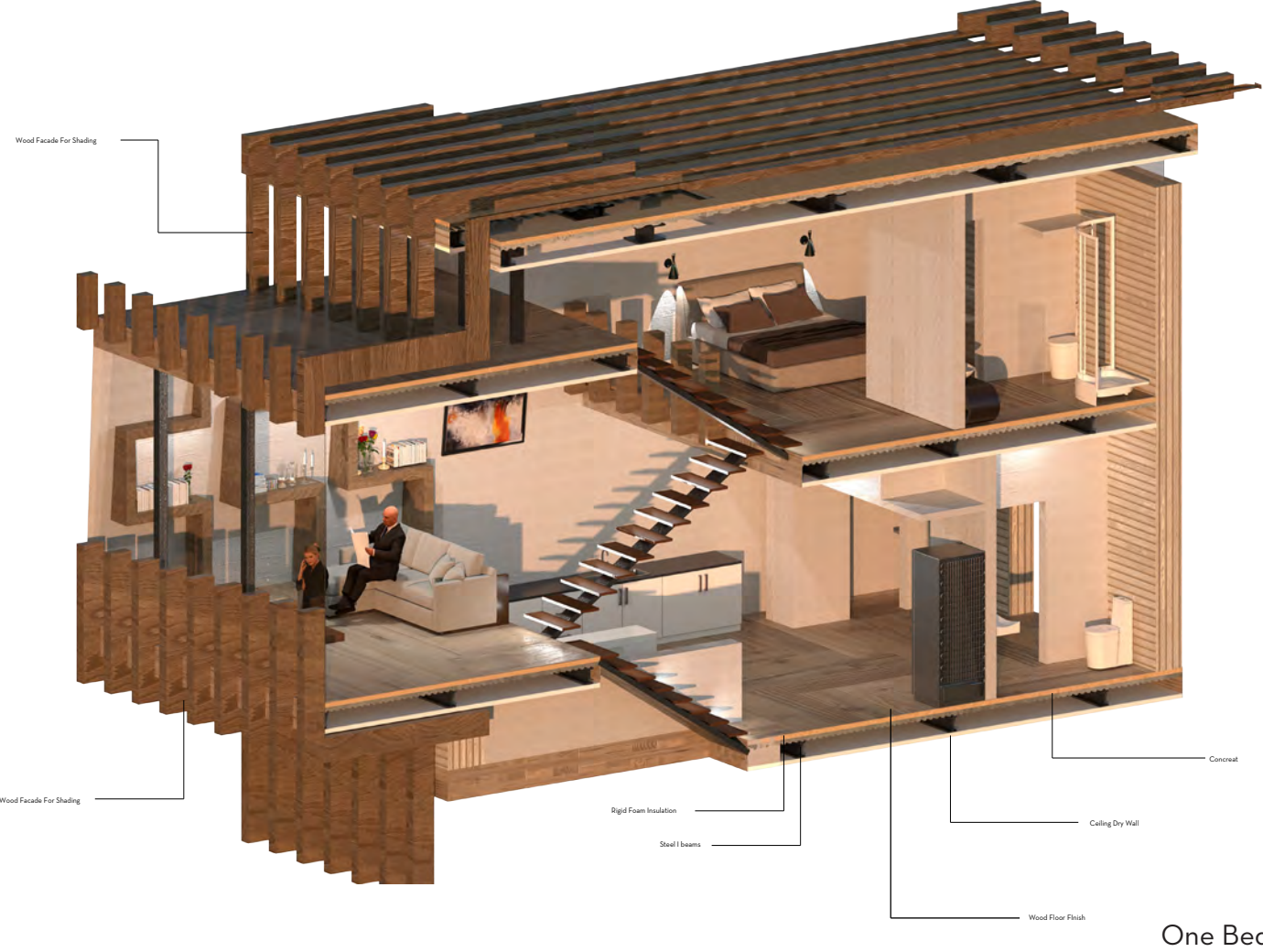
Section



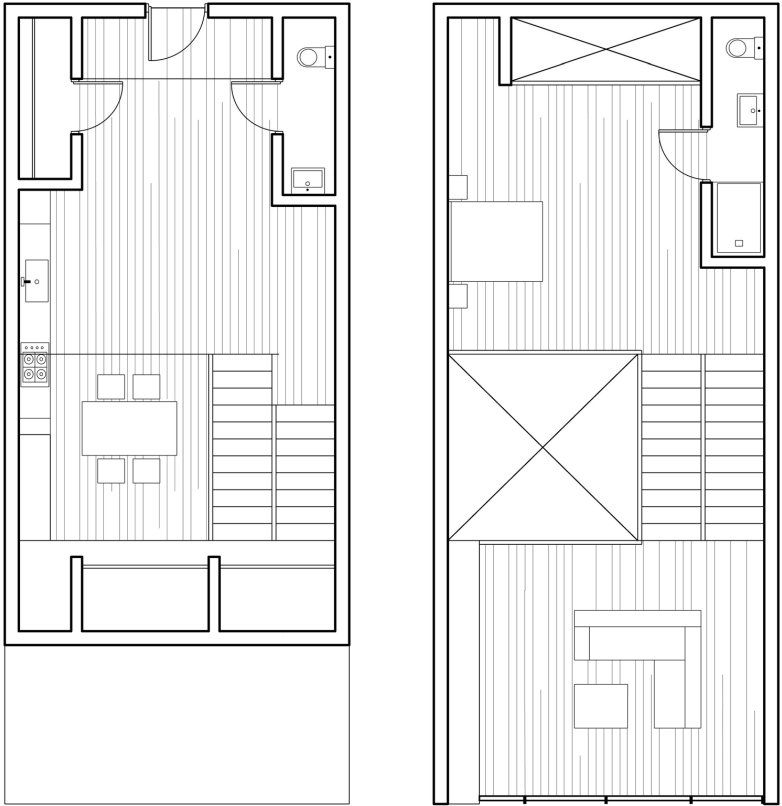
Plan



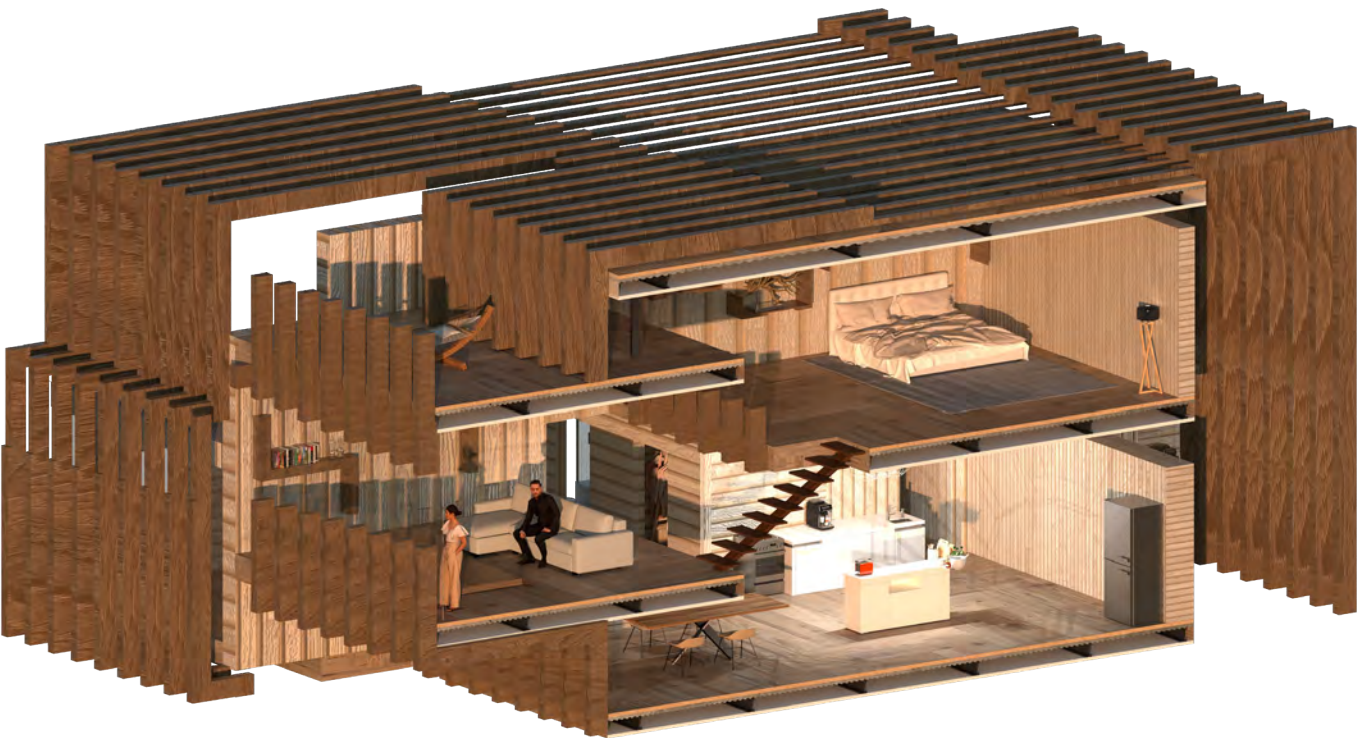




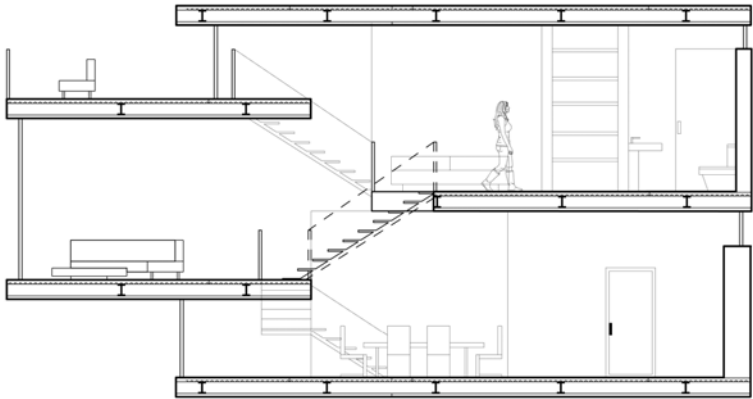
Section



Plan



Two Bed
The design showcases a deliberate incorporation of natural daylighting, utilizing precise placement of glazing within the apartment to harness sunlight and illuminate the space effectively.



0' 10' 20' 50'
Section



0' 10' 20' 50'
Plan



03

PROFESSOR: WALAID SEHWAIL
LOCATION: TROY, NEW YORK

THE ECO-PAVILION

Along the waterfront of the Hudson River in Troy New York, lies the eco pavilion that defies conventions and embodies the future of sustainable design. This hypothetical structure, deeply rooted in the language of voxels, offers a transformative interpretation of scale, clarity, and pixelization.

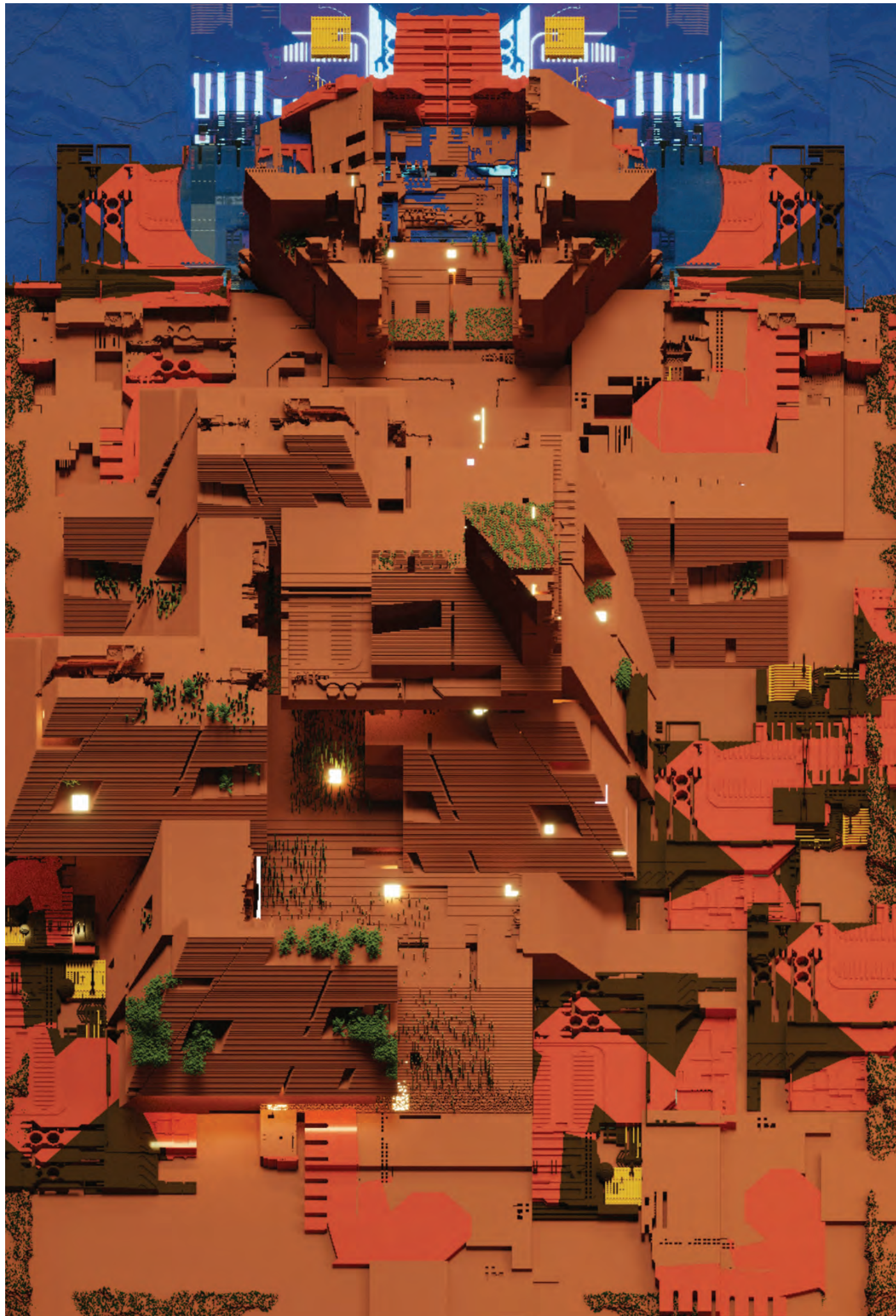
This deliberate integration of flora amplifies the pavilion's ecological attributes, creating a harmonious coexistence between architecture and nature. The pavilion's overwhelming presence becomes a testament to its commitment to ecological assistance and contribution.

The pavilion serves as a purifier, actively contributing to the health of marine life and providing a solution for the purification of water, ensuring the well-being of both the aquatic ecosystem and the local community.

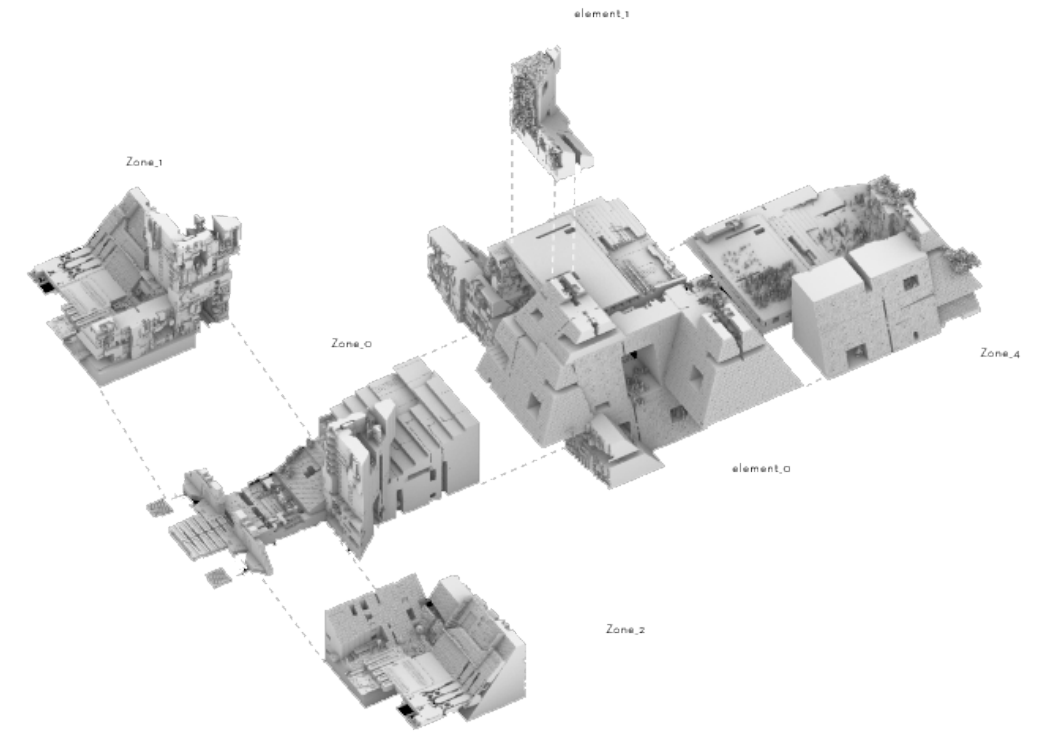
This visionary pavilion transcends its initial role, becoming a symbol of regenerative design that seamlessly integrates technology, architecture, and nature. It invites the people of Troy to witness the powerful union of human innovation and environmental sensitivity—a pavilion that not only opens its doors for leisure and protection but also actively participates in the rejuvenation and sustainability of the local ecosystem.

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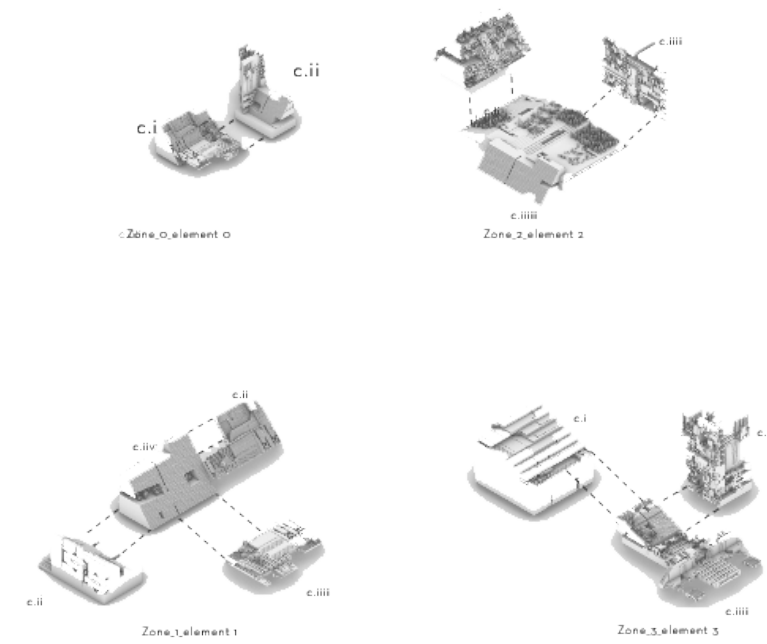




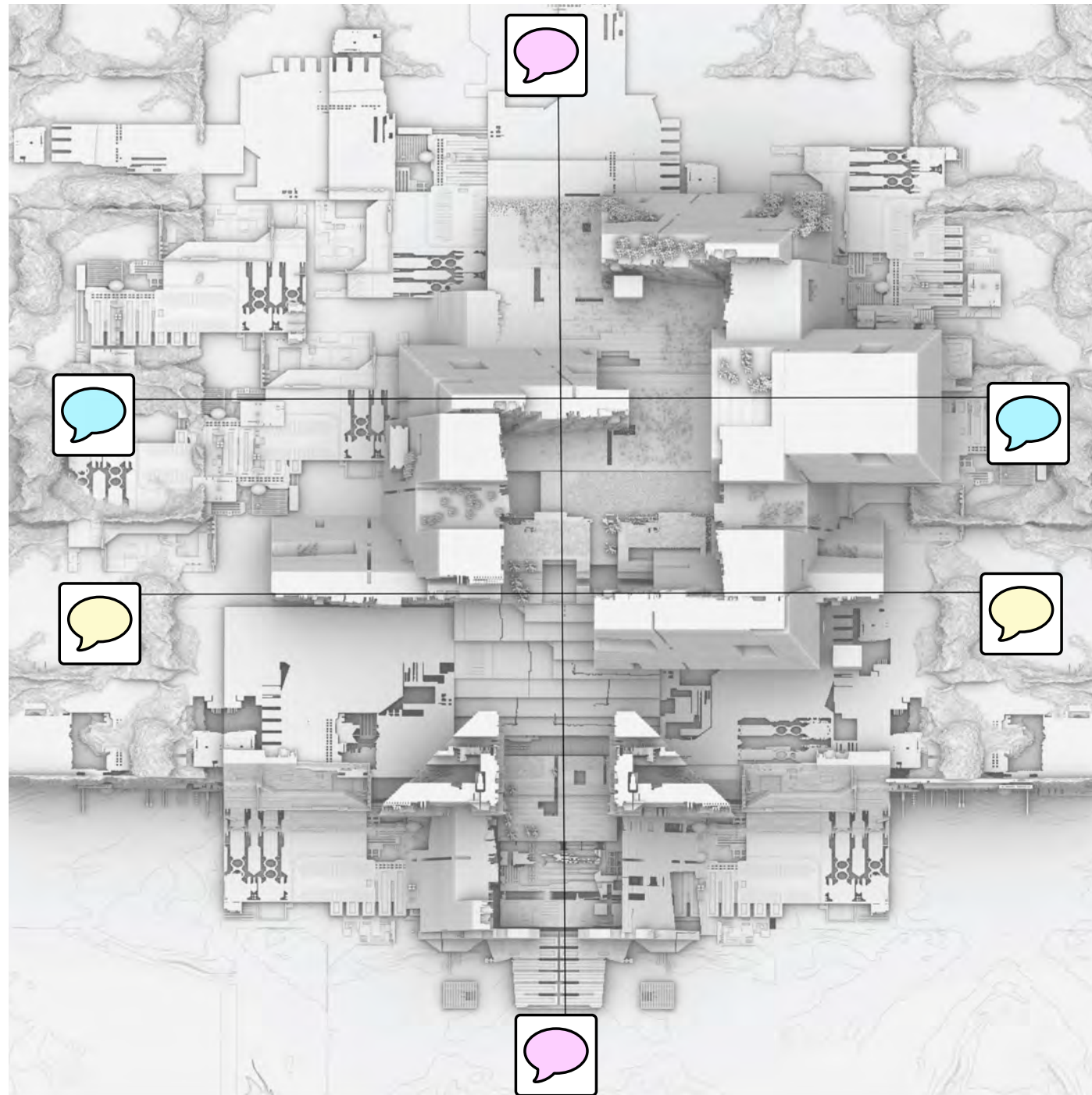
THE ECO-PAVILION



Exploded Diagram



Component Attachments



Plan



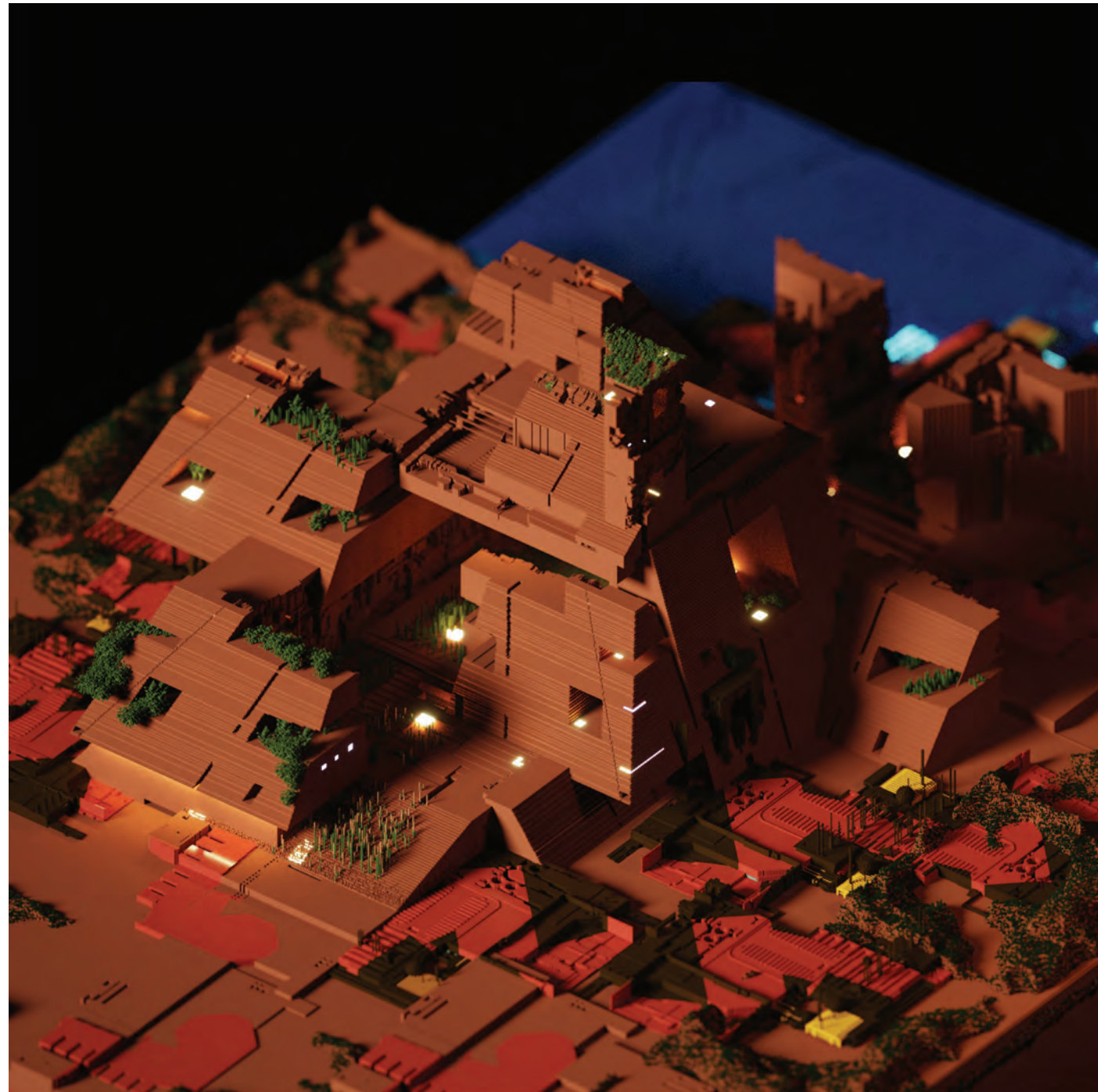
The plan highlights the flow through the pavilion, directing visitors towards the water through strategically positioned openings and subtracted crevices, creating numerous opportunities for exploration and discovery within the space. This design approach not only encourages engagement with the surrounding environment but also fosters a sense of intrigue and adventure, inviting individuals to uncover hidden gems throughout their journey.



Chunk Addition View 3

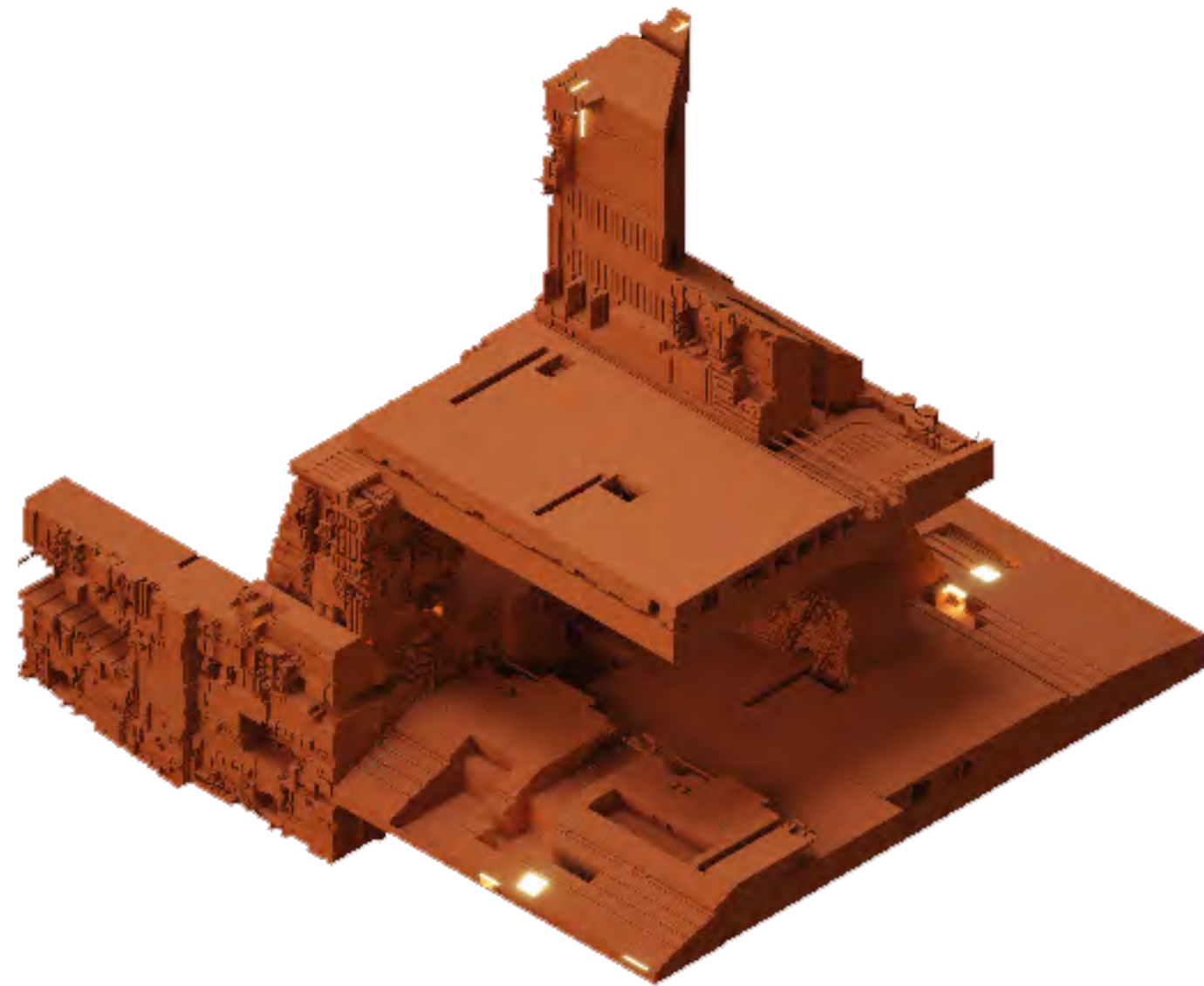
The project's emphasis on experimenting with scale and pixelization is evident in its modular design, allowing for interchangeable pieces that can be switched out periodically, potentially transforming the installation into an ever-evolving artwork. Through this approach, the project offers a dynamic perspective on the impact of altering certain elements, inviting viewers to envision alternative configurations and explore the possibilities of continuous change and adaptation within the space.





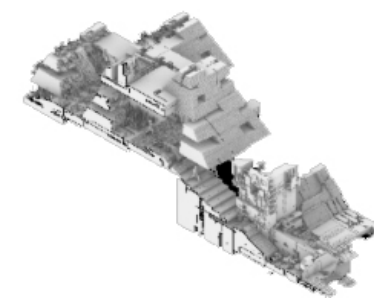
Aerial View



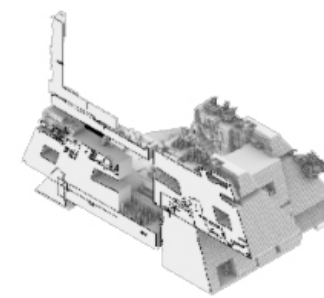


Chunk

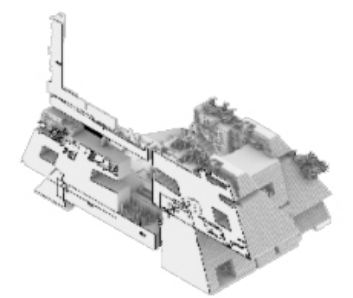
This modular piece illustrates the project's adaptability, showcasing how it can be broken down into smaller scales and interchanged accordingly. By offering flexibility in both arrangement and hierarchy, the design encourages experimentation with diverse configurations, enriching the spatial experience.



section A



section B



section C

O4

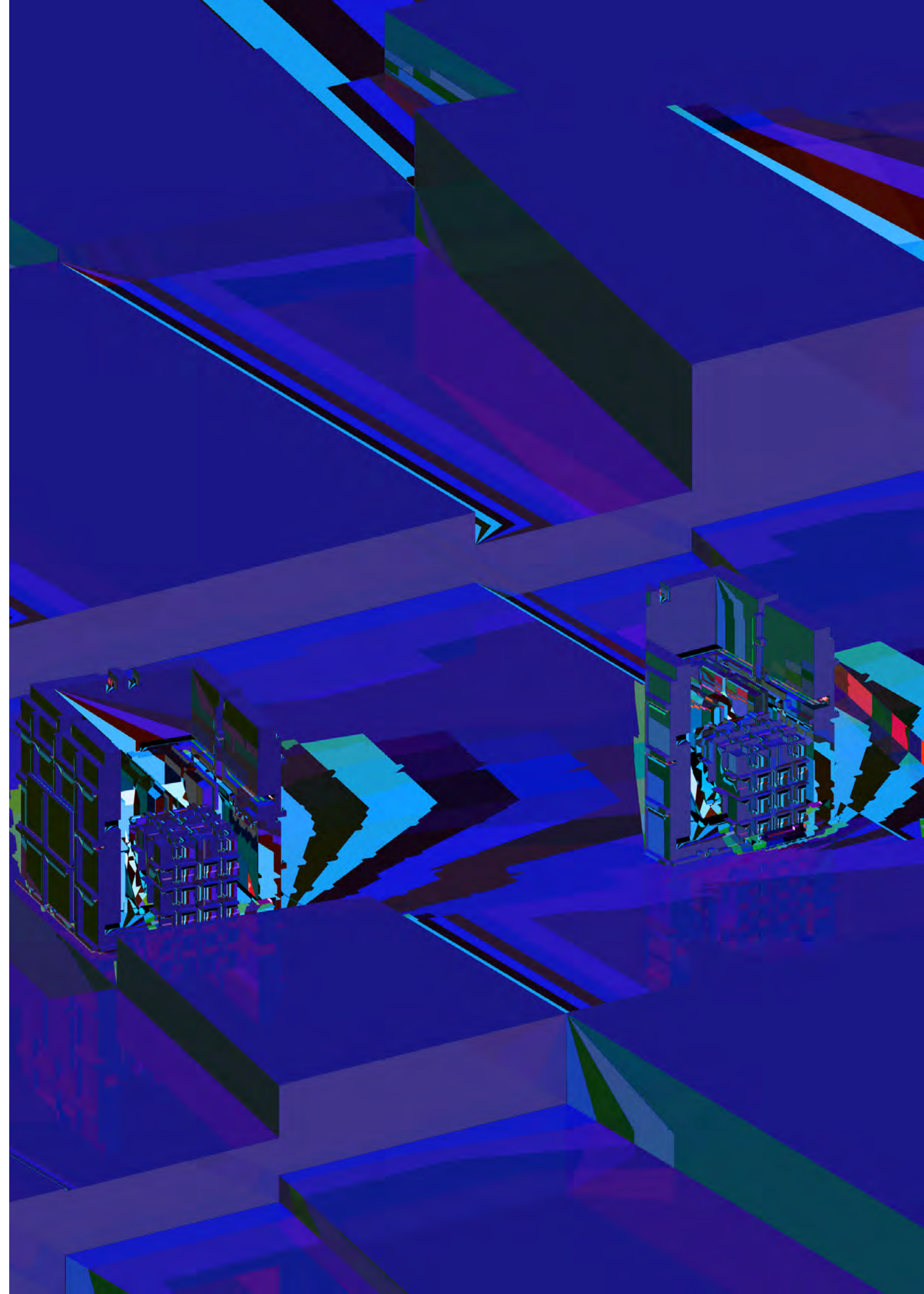
PROFESSORS: ADAM DAYEM, EDWIN LIU, MATHEW LOPEZ

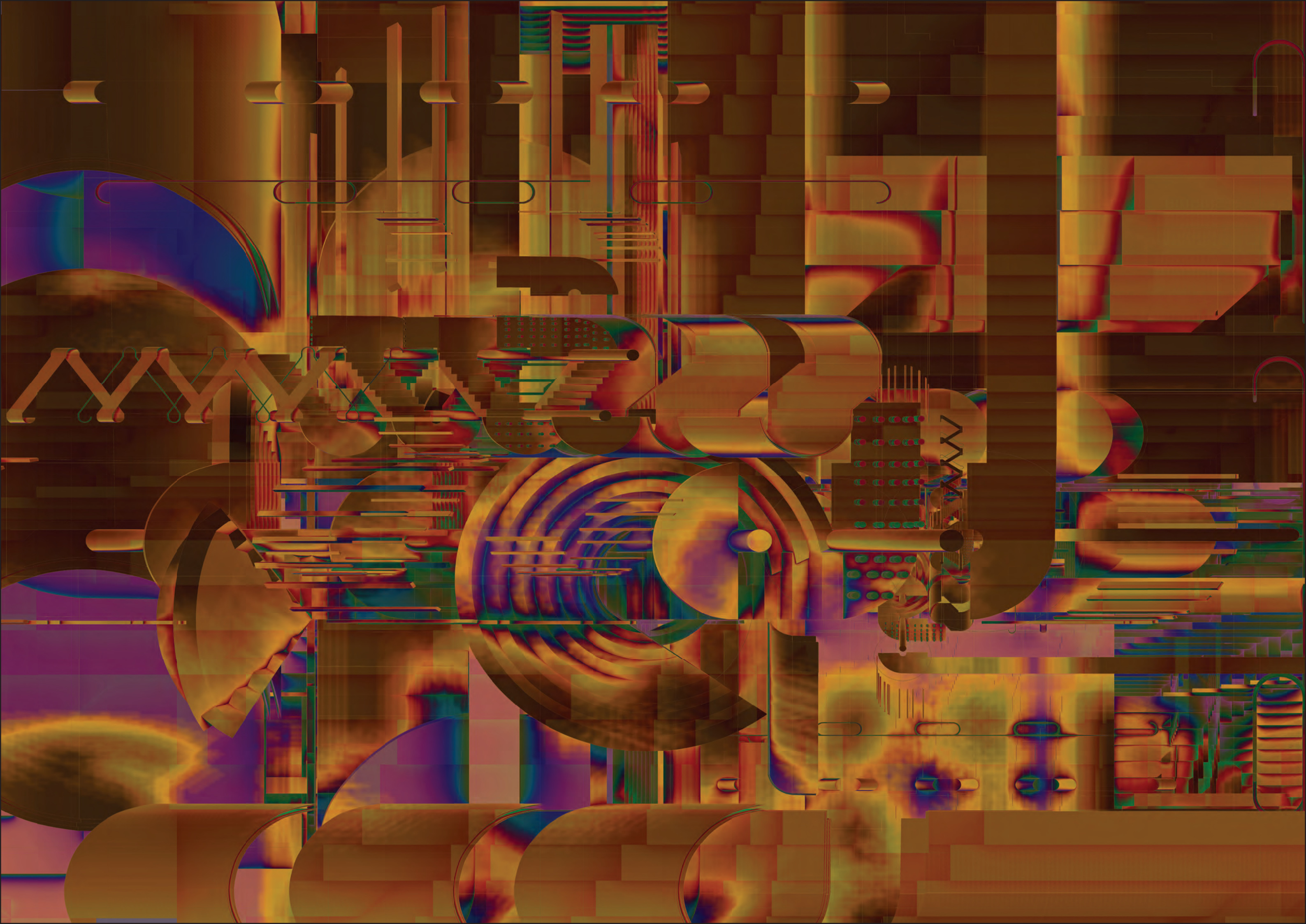
DIGITAL CONSTRUCTS

This section encapsulates the culmination of my endeavors undertaken during my engagement with Digital Construction courses. Over the course of four semesters, I immersed myself in a comprehensive exploration of various architectural software applications, including but not limited to Rhino, Grasshopper, Parakeet, V-Ray, and the Adobe Suite. Furthermore, I actively engaged with hands-on technological tools such as 3D printing and three-dimensional scanning, adeptly manipulating these technologies to augment my design processes.

Central to the ethos of these courses was a resolute commitment to experimental pedagogical approaches aimed at fostering innovative design thinking. Emphasizing a multifaceted approach, the curriculum encompassed rigorous training in drawing, rendering, model making, and comprehensive lectures elucidating the intricacies of diverse software platforms and their corresponding methodologies. This multifaceted educational framework not only honed my technical proficiency but also cultivated a nuanced understanding of the symbiotic relationship between design theory and practical application within the realm of contemporary architecture.

FALL 2021 - SPRING 2023





05

PROFESSOR: JILLIAN CRANDALL
LOCATION: CATSKILL NEW YORK

VIEW HOUSE

In this project, I was entrusted with the design of an extension for the Thomas Cole Museum in Catskill, New York. My endeavor involved crafting a view house meticulously engineered to offer visitors a superlative experience within an environment characterized by comfort and optimal circulation. The primary objective was to seamlessly integrate the exhibition of artworks and artifacts while strategically guiding visitors towards significant views afforded by the hilltop location of the Thomas Cole House.

The architectural intervention not only prioritized the curated display of artworks but also facilitated an immersive journey through the site's natural and cultural landscape. This was achieved through a meticulous orchestration of circulation pathways designed to seamlessly integrate with the surrounding vistas, enhancing the overall narrative of the museum experience.

Moreover, the project was complemented by the integration of technical construction systems drawings, providing comprehensive insights into the materiality, structural integrity, and overall construction methodology. These technical specifications not only elucidated the intricacies of the built environment but also underscored a commitment to architectural excellence and meticulous attention to detail.

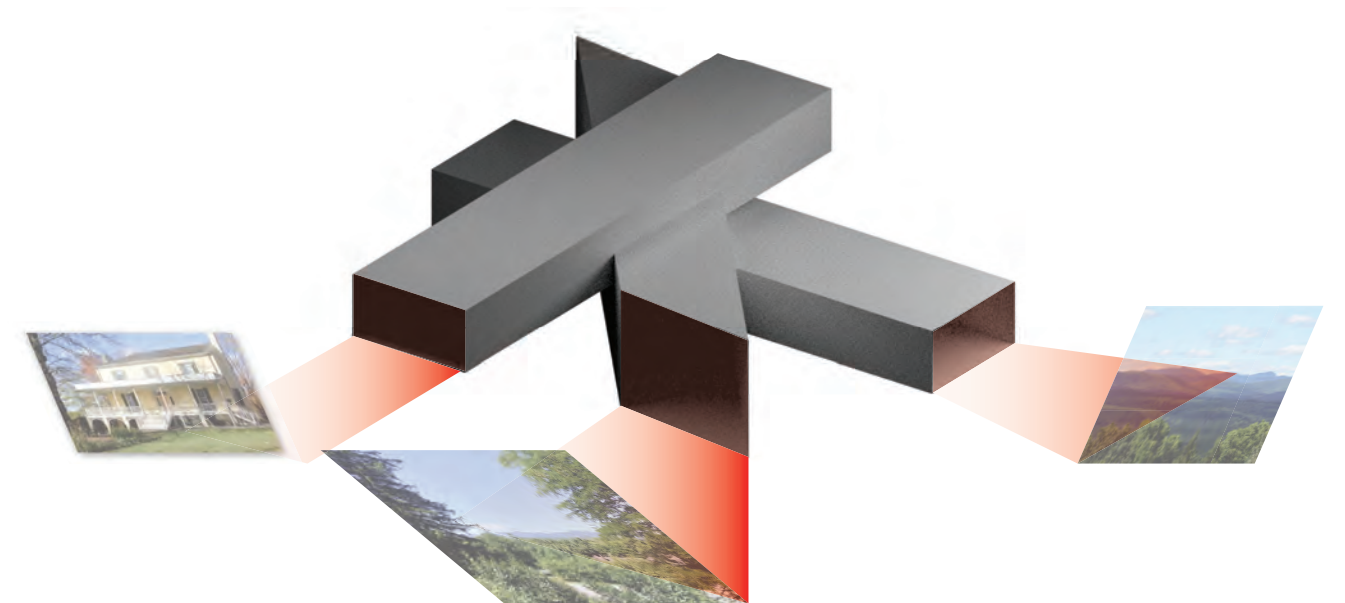
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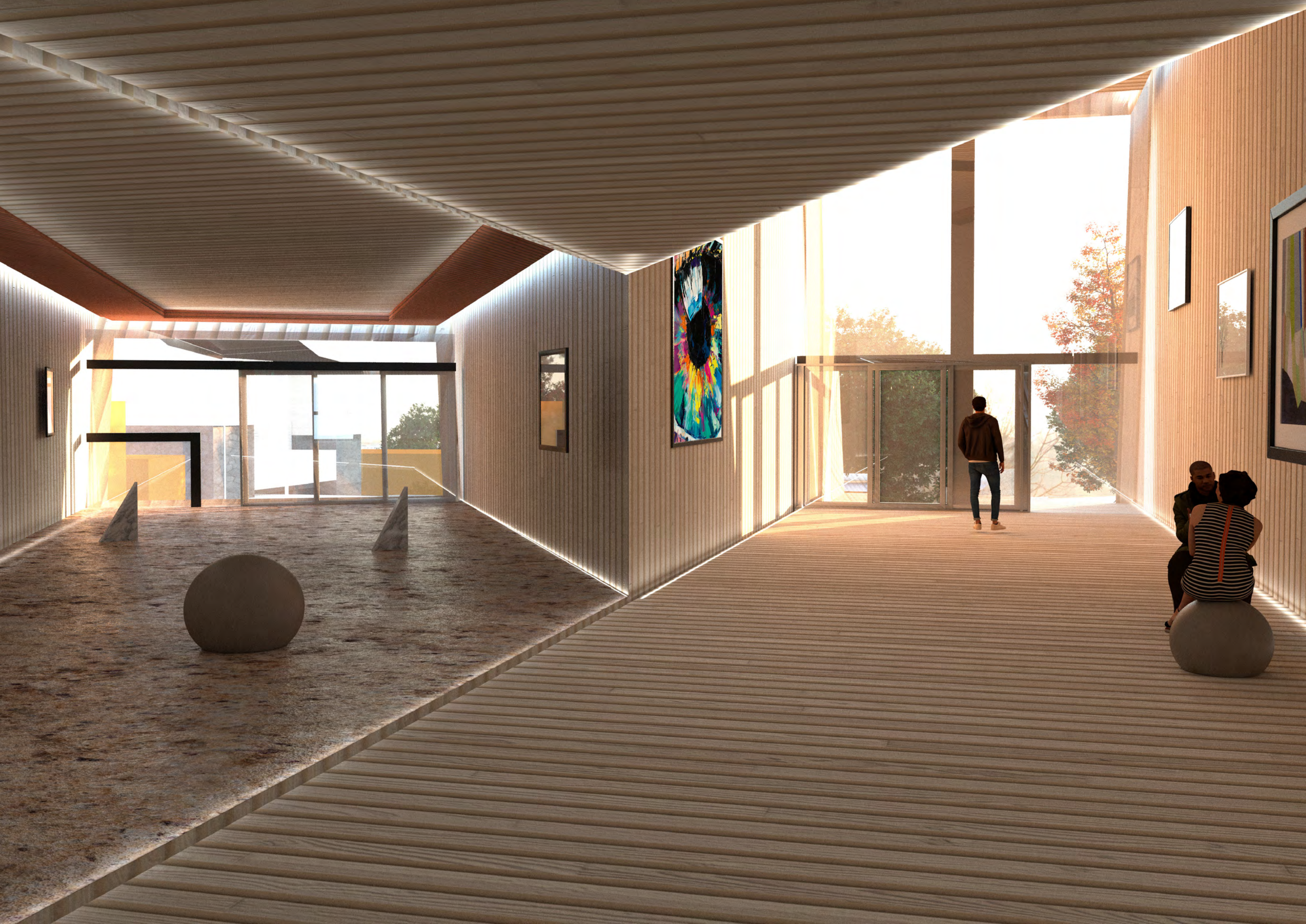
View House Ariel Render

The concept of a green roof at the apex of the space reflects an innovative approach to maximizing space utilization, ensuring no area goes to waste. This experimentation with vertical space not only enhances environmental sustainability but also fosters a harmonious integration of nature within the built environment, promoting a healthier and more efficient use of urban space.

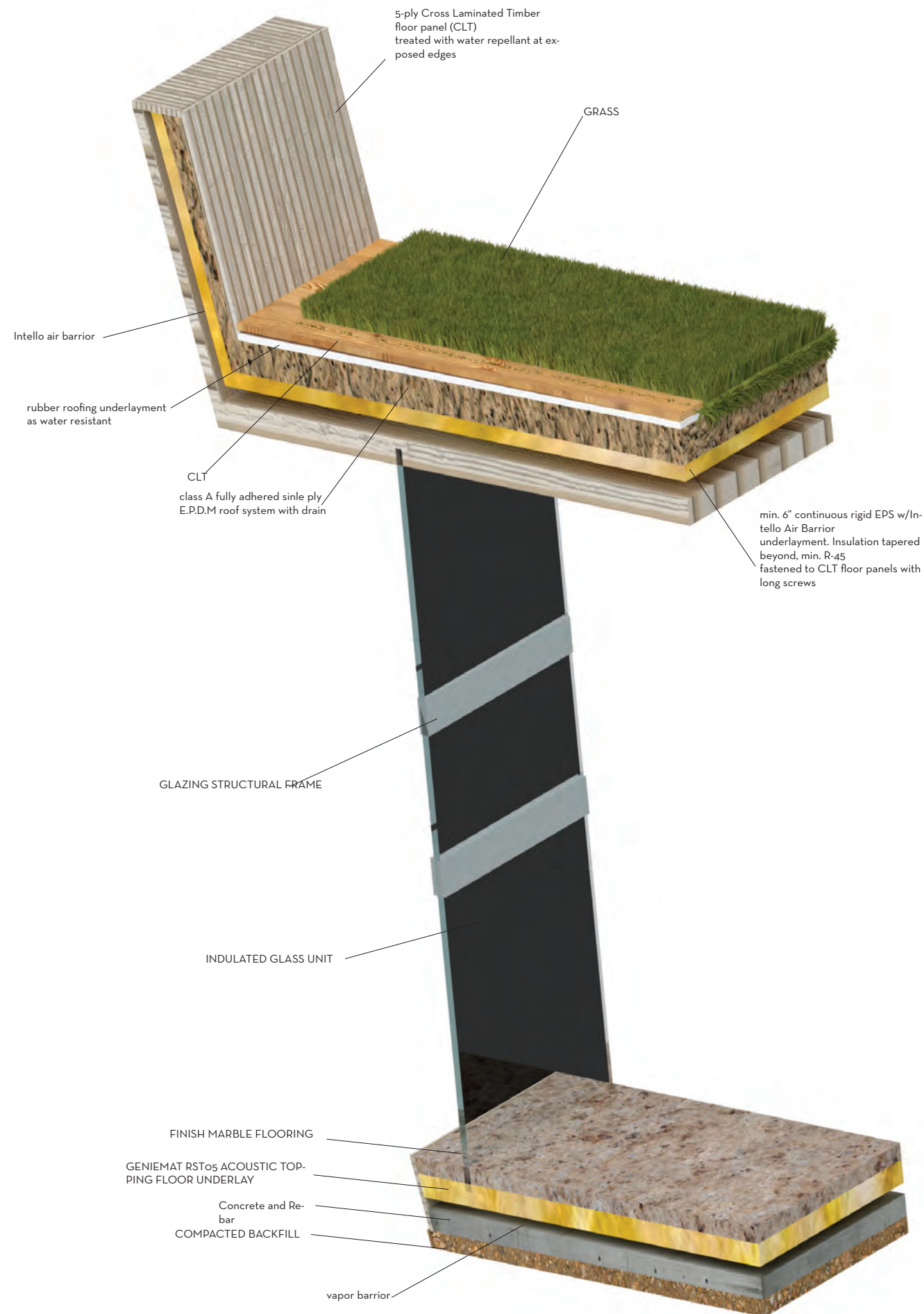


View Diagram

The design exemplifies a deliberate placement of each pillar to frame specific views, highlighting a thoughtful consideration of sightlines and perspectives throughout the space. By strategically positioning the pillars, the design enhances visual connections with the surrounding environment, creating dynamic focal points and enriching the spatial experience for occupants and visitors alike.

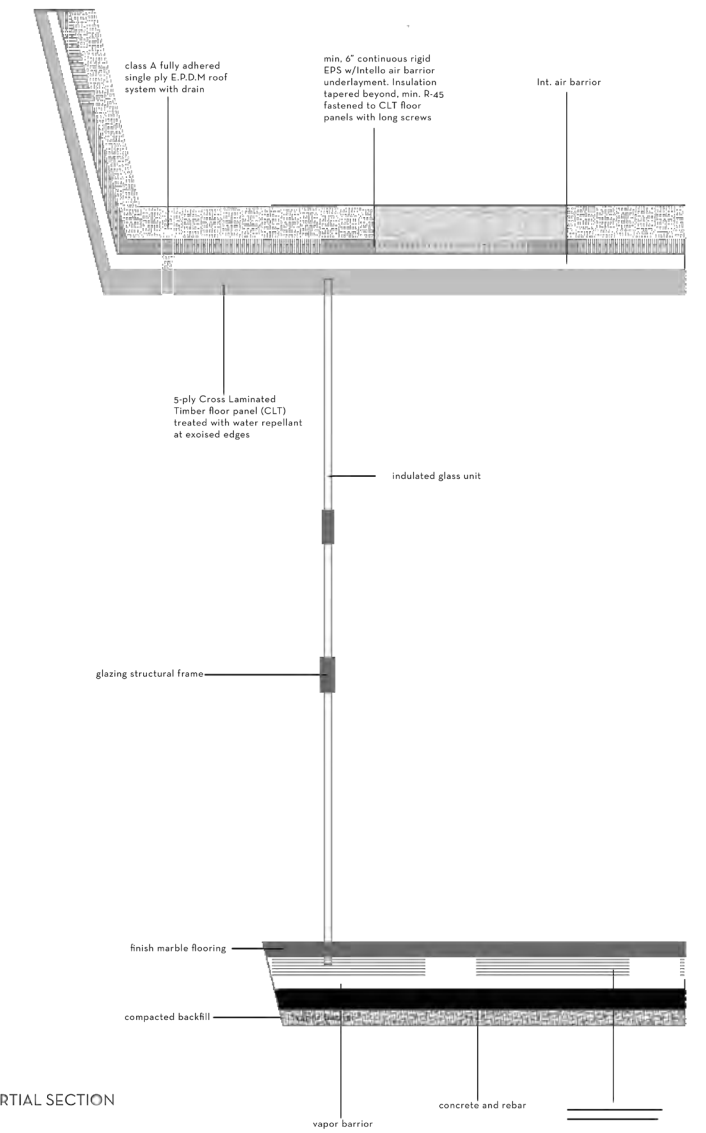


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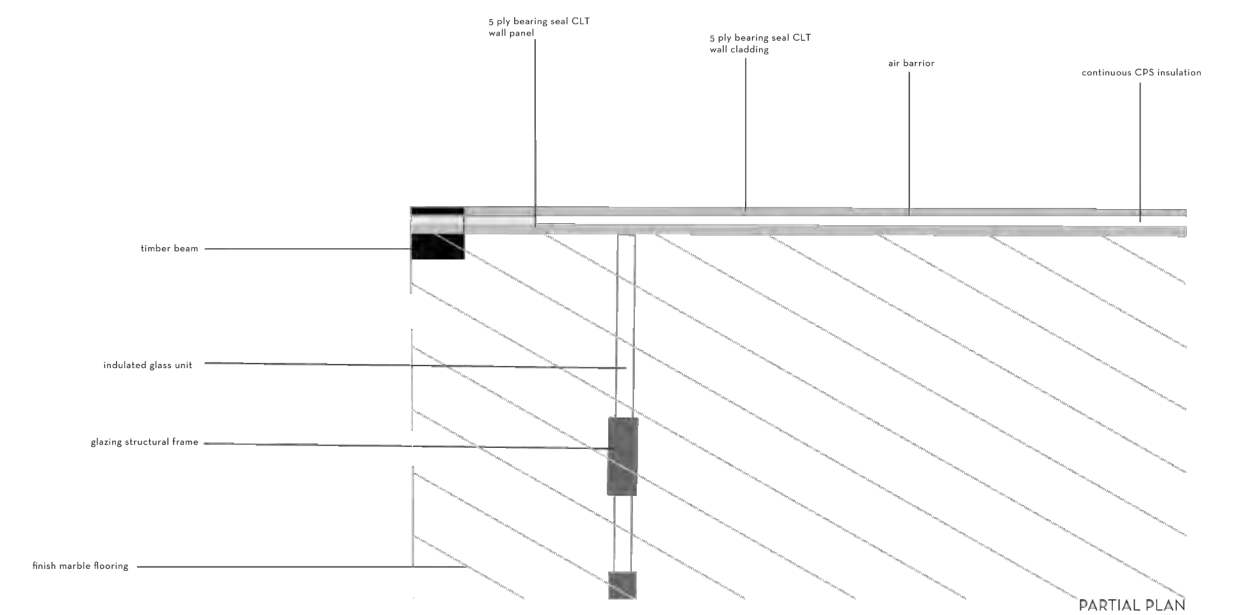


PARTIAL ELEVATION

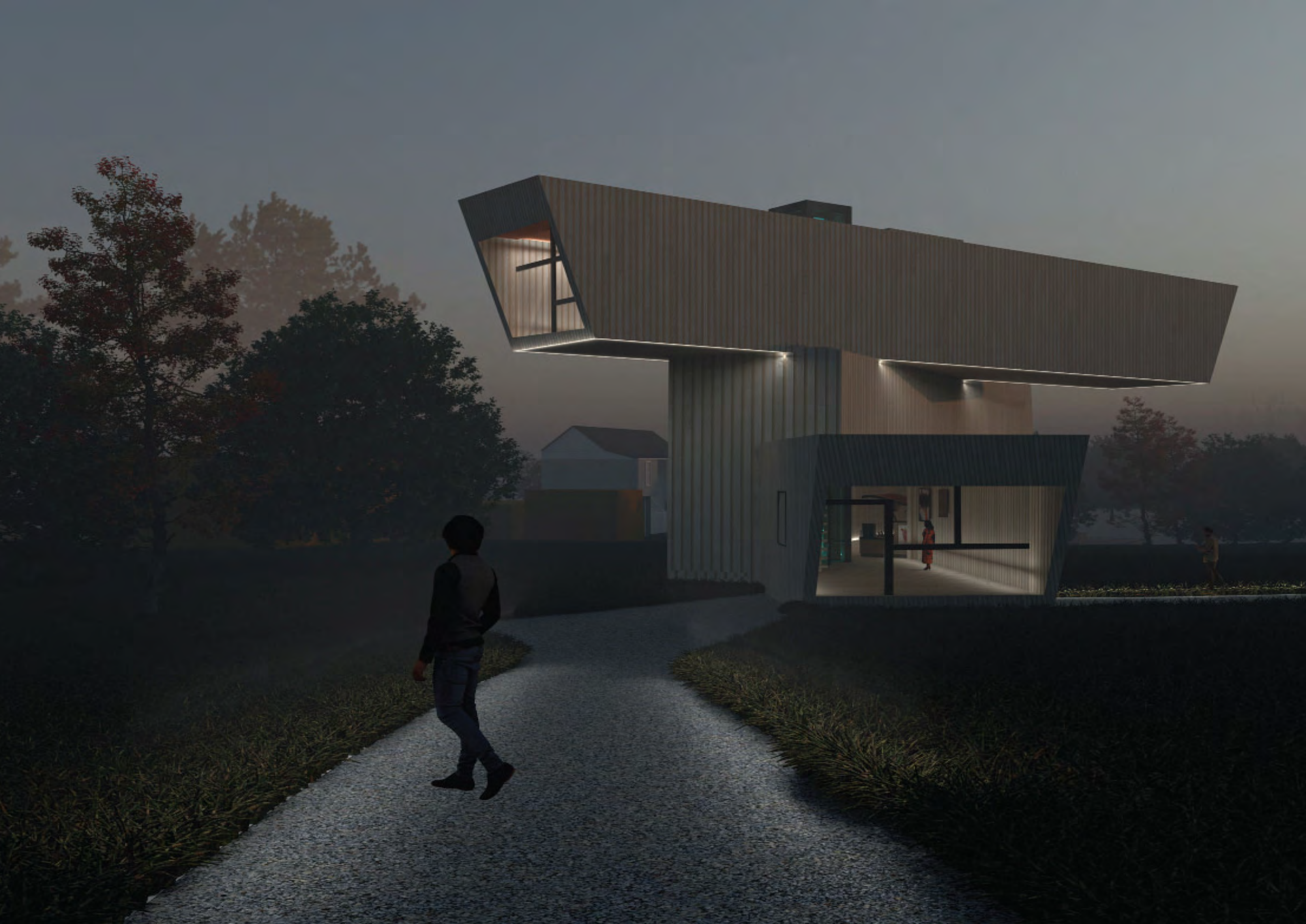
VIEW HOUSE



PARTIAL SECTION



PARTIAL PLAN



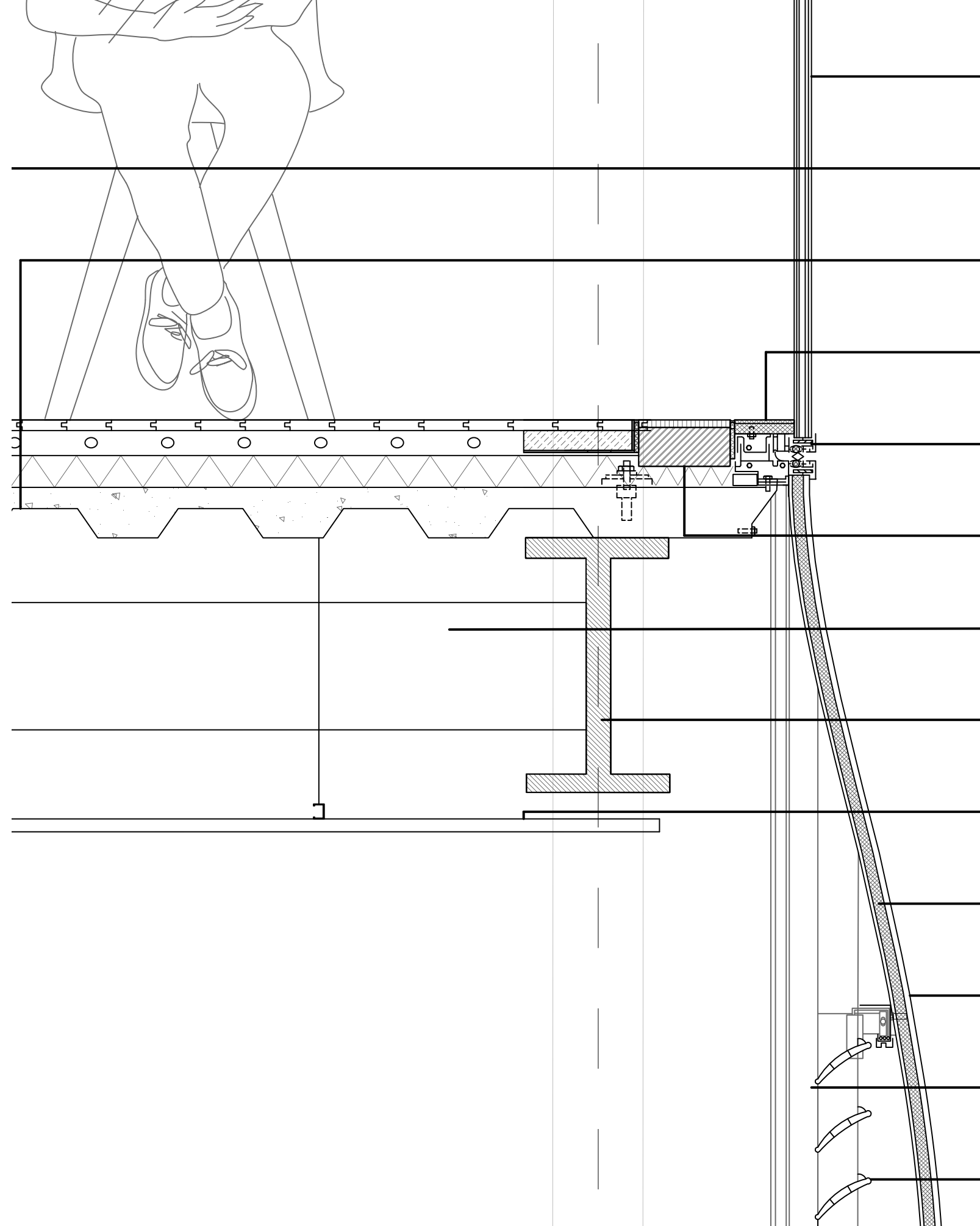
**PROFESSOR: MARCUS CARTER, LONN COMBS,
MICHAEL STRADLEY**

CONSTRUCTION SYSTEMS

The course provided a comprehensive exploration of reading and producing construction documents, offering insights into the intricacies of building elements beyond their mere geometric properties. Through hands-on learning, students delved into the inner workings of structures, gaining a deeper understanding of the significance of various architectural components. One such case study, the American Folk Museum, served as a focal point for applying theoretical knowledge to real-world scenarios. By dissecting the museum's design and construction documents, students grasped the complexities of architectural detailing, structural systems, and material specifications.

Engaging with the American Folk Museum as a case study enabled students to appreciate the nuanced interplay between architectural theory and practice. Analyzing the museum's documentation facilitated a holistic comprehension of the building's spatial organization, functional requirements, and aesthetic considerations. Furthermore, through this immersive learning experience, students honed their ability to interpret technical drawings, decipher construction terminology, and identify crucial elements crucial for successful project execution. Ultimately, the course not only equipped students with practical skills in construction documentation but also instilled in them a deeper appreciation for the multifaceted nature of architectural design and implementation.

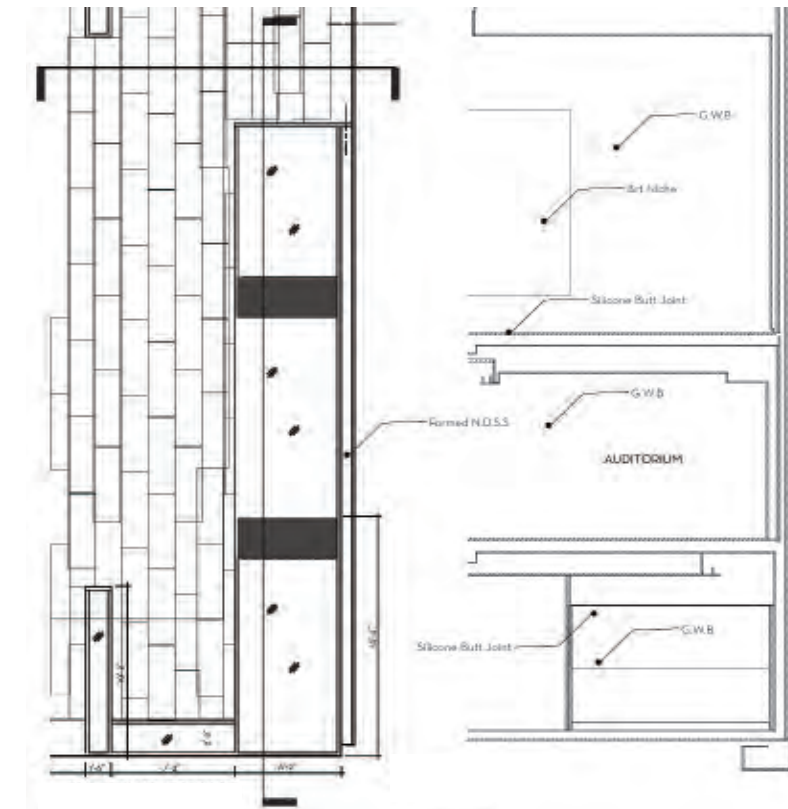
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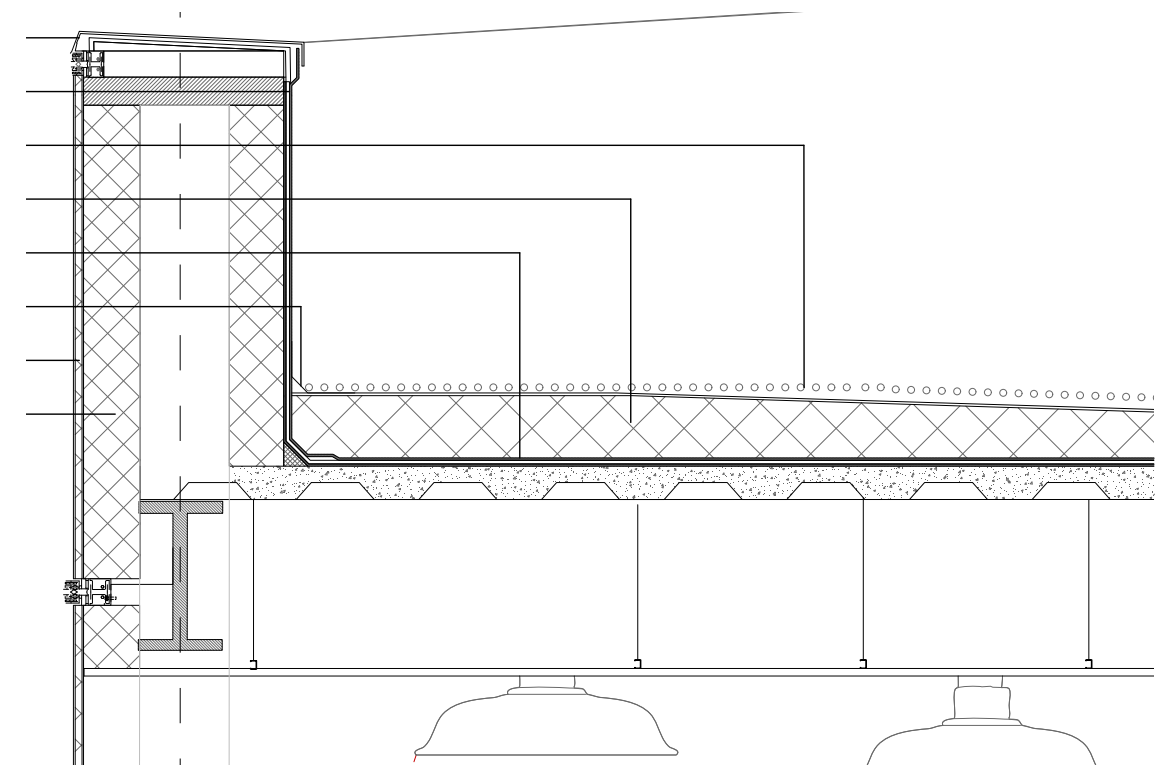


Detailed Section Render

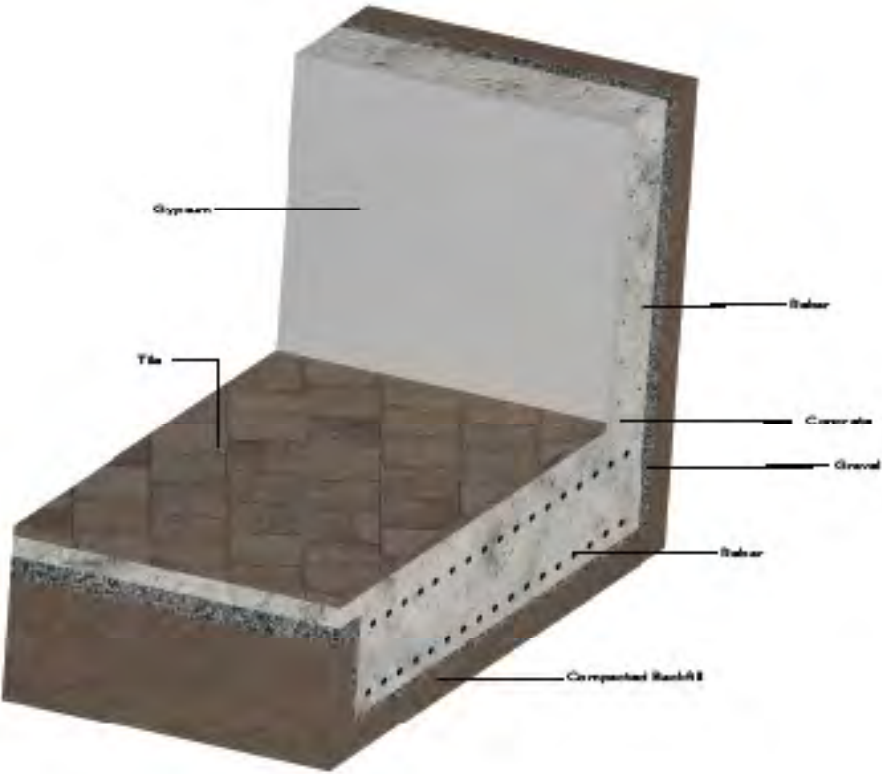
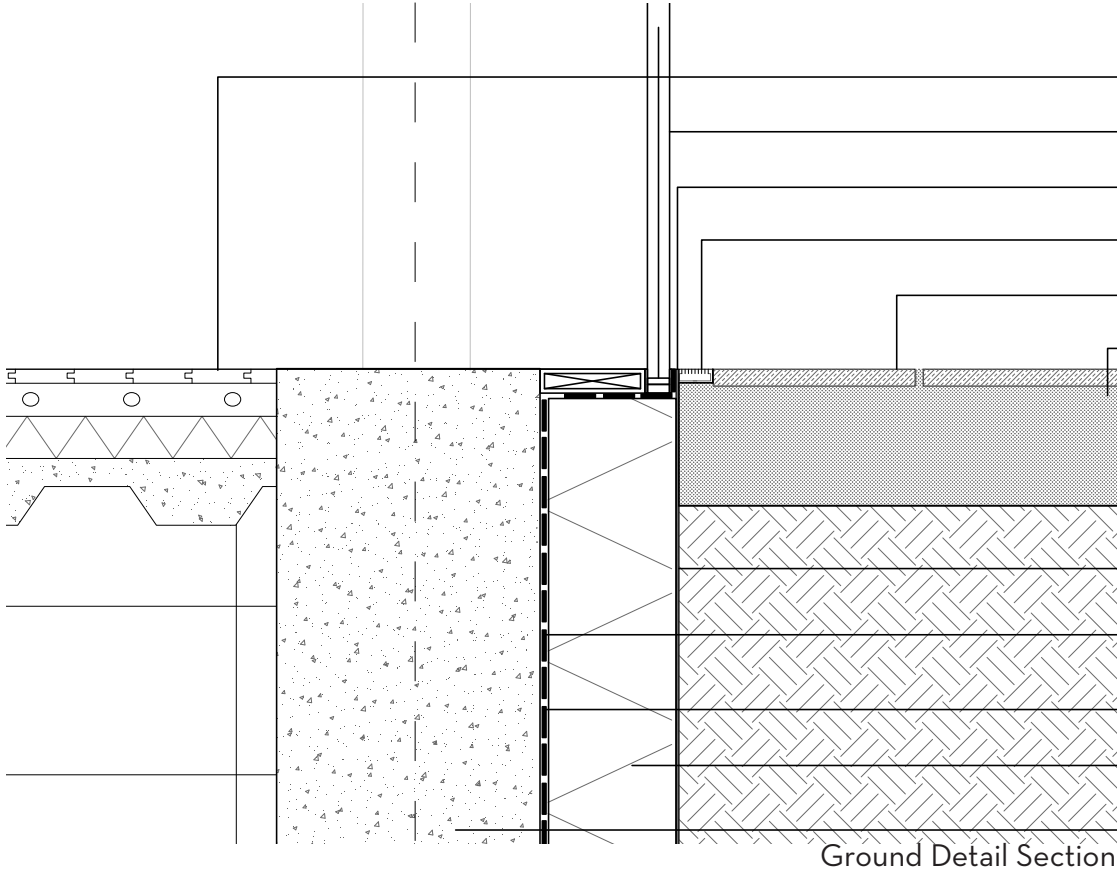
VIEW HOUSE



Detailed Elevation and sections



Detailed Roof Section



PROFESSOR: JILLIAN CRANDALL
PARTNER: AYUSH SINGH, SCOTT SIGMUND,
SHAWN PUTMAN, BRYN PETERSON

CITIES AND TERRITORIES CASE STUDY

Educational inequality remains a pressing concern in America, particularly evident in cities like St. Louis, Missouri. Despite the city's strong emphasis on education, highlighted by the commonplace question, "Where did you go to high school?" socioeconomic disparities persist, creating significant barriers to equal opportunity. Within St. Louis, neighborhoods like The Ville, once home to pioneering institutions like Sumner High School, now face the harsh realities of underfunded schools, vacant lots, and pervasive poverty. These challenges underscore the urgent need to address systemic inequities in education and foster inclusive environments where all students have access to quality learning opportunities.

The story of St. Louis and The Ville reflects a broader national narrative of entrenched educational disparities and their profound impact on communities. As policymakers and advocates continue to grapple with these complex issues, there is a growing recognition of the imperative to invest in educational equity initiatives that address root causes and uplift underserved populations. By prioritizing equitable access to resources, support services, and opportunities for all students, we can work towards building a more just and inclusive society where every individual has the chance to thrive academically and beyond.

FALL 2022



ST. LOUIS, MO | VILLE REVITALIZATION

Ville Revitalization

Marcus Morgan, Ayush Singh, Shawn Putman, Bryn Peterson, and Scott Sigmund

Location: St. Louis, Mo

STATEMENT

This project looks at taking an area of St. Louis none as the Ville and creating a new center of development to help the regeneration of a once vibrant community while preventing the problem of gentrification.

TPOLOGY

Material-Social Lifecycle Intervention - uniting material lifecycle/s with community practices and rituals

STATEMENT OF VALUES

By adding local businesses and affordable housing to the main street of the Ville, the money generated by this program can be reinvested into the community to help increase the quality of life of the residents as well as gradually desegregate the area as people of more races and cultures will begin to enter.

ABSTRACT

Since the end of the 19th century, the majority of people who have lived in the Ville are African Americans of St. Louis. This community has since been forgotten as many buildings and homes are abandoned. Specifically, there are 1,242 vacant buildings in the Ville. Consisting of various amounts of open land, the Ville is begging for new additions to be introduced. North Newstead Avenue is one of the main roads that transverse the Ville, as it is also close to a major apartment complex, the high school and a church. However, this main street lacks any sort of business or markets that could

potentially help increase the value of the area as well as bring more economy and money to the residents. If the Ville can begin to grow as a place of commerce and business, the community, including schools, will begin to desegregate as more people enter the Ville.

INTRODUCTION

The unfair problem of educational inequality in America has gone unaddressed for many years. The educational divide is a widespread epidemic that began as a microcosm in cities like St. Louis, Missouri. The city of St. Louis places a strong emphasis on education. The city even has a question of "Where did you go to high school?" at its foundation. This simple question may come off as a genuine jester of a person's curiosity about another. Still, no matter the answer, the recipient will be attached a label to generalize who they are. Unfortunately, the children in the city suffer the most from the educational gap affecting St. Louis. The Ville, a historic neighborhood within city boundaries, has



Fig 1. (Photo) The Ville

Marcus Morgan, Ayush Singh, Shawn Putman, Bryn Peterson, and Scott Sigmund- Ville Revitalization

been the location of Sumner high school, the first African American institution west of the Mississippi river. By being home to such an institution, the Ville was and still is a predominantly African American community. Unlike in the mid-1900s, today, the Ville neighborhood faces a high rate of vacancies, underfunded schools, and poverty.

ANALYSIS

The demographics within St. Louis in the neighborhood of The Ville are apparent that a progressive divide between race, wealth, and education continues to grow perpetually. The median household income is twenty-four thousand dollars a year, with over fifty percent of the populous having only a high school diploma or less. Additionally, the citizenry is comprised of such a dense populous of African Americans that it is fair to say the area is comprised of modern-day segregation within the promotion of racial barriers.

COMMUNITY RESPONSIBILITIES

The stakeholders are a variety of different companies and organizations that reside all around the St. Louis area. This includes MODOT or the Missouri Department of

a new bus route to help revitalize the Ville. Another major contributor would be the organization 4theVille which is an organization made to preserve the history of the Ville because it has a famous past of Black Culture. A Major developer in the project would be the St. Louis Department of Urban Planning as well as the construction company Rise which builds Available housing in the St. Louis area while making the community more equitable.

IMPLEMENTATION STRATEGY

For the plan we are replacing vacant structures with residential and local businesses for the Ville neighborhood, building affordable housing for marginalized people to buy and occupy and, creating spaces for local businesses to occupy. For Communal Engagement we are going to Join efforts with the local non-profit STLvacancy to better utilize spaces for the Ville community, and speak to residents of the Ville neighborhood to make sure the residents are at the center of the planning process. For the Administration Involvement we are going to bring the issues of the Ville neighborhood to the city level, voicing how the effects of new infrastructure would combat educational disparity. Create a line of communication for

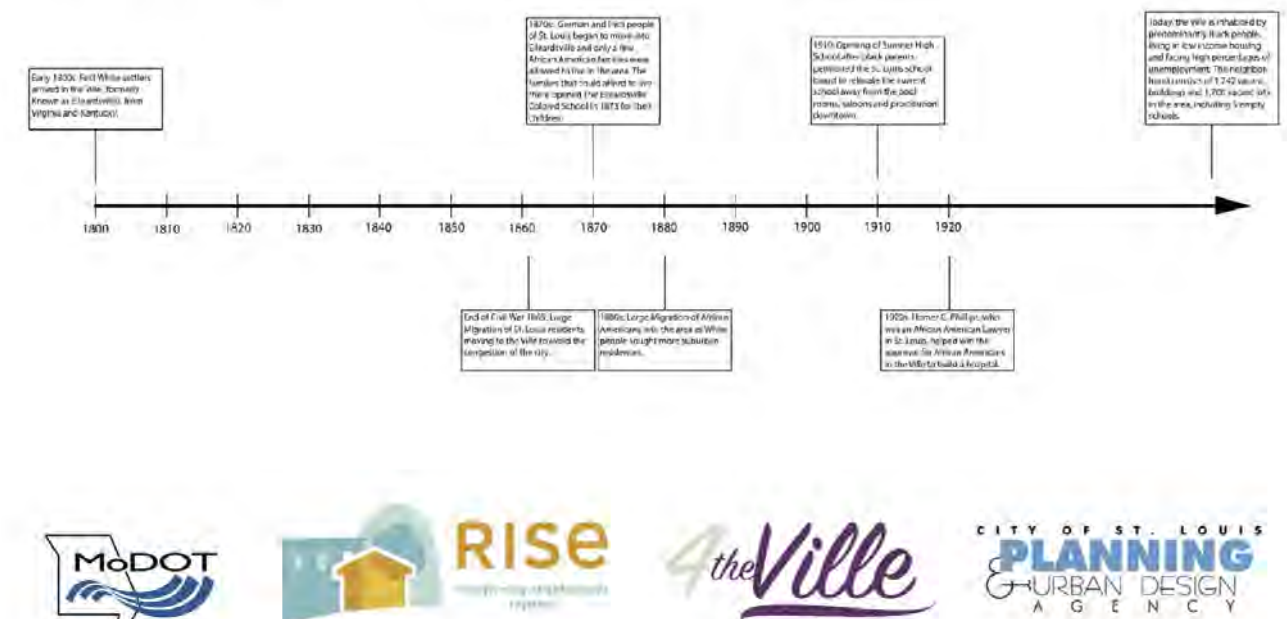


Fig 2. Historical Timeline and Stakeholders

RPI School of Architecture

administration, creating transparency for residents to express their concerns with the new plan. This plan would further create a healthy plan for the whole community with education at its center. Finally, to create a Program we are going to with the help of STL Vacancy, community engagement, and city officials, a program should be put in place to help the schooling in the Ville neighborhood. This program would enforce strategic codes for property owners to not sell to large corporations or investors. Having a code in place would create new jobs for people in the community while also resolving the food desert crisis in the area. This program would be put in place to prevent gentrification from occurring in the Ville neighborhood and help raise money for the schools in the neighborhood. The program would also provide educational workshops for the community residents to further their knowledge in job employment, communal wealth, financial literacy, and children's education.

CONCLUSION

The incorporation of new affordable housing as well as a new shopping area for local businesses will revitalize the area in the Ville. In doing so it will also improve the Sumner High School while it will reestablish the Ville's historical significance in the community of St. Louis.

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4theVille. (n.d.). Retrieved December 19, 2022, from <https://4theville.org/>

Msajaminor. "The Ville: Then, Now & Tomorrow." ourstlouishistory, December 1, 2017. <https://www.ourstlouishistory.com/single-post/2013/12/02/the-ville-stl>.

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Fig 3. Social Demographics



Fig 4. Zoning Diagram

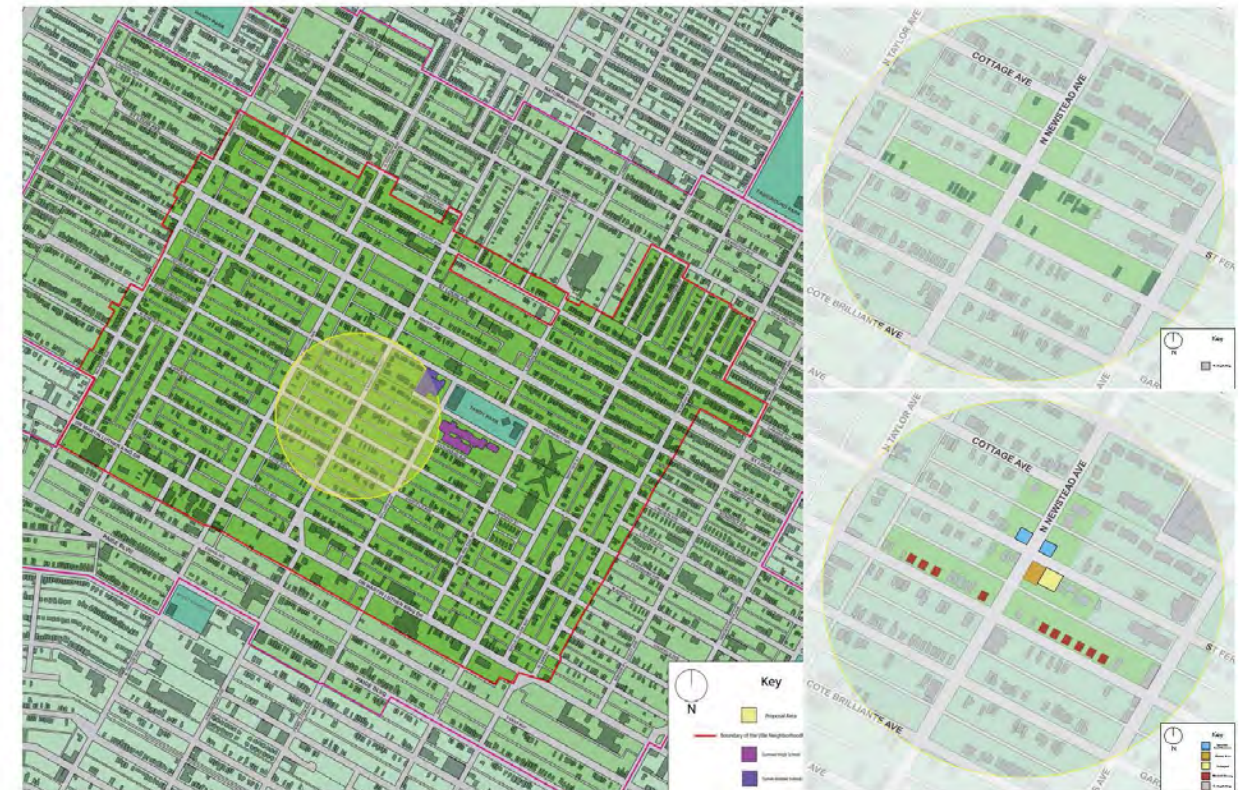


Fig 5. Existing Plan and Proposed Plan



Fig 6. Axonometric



Fig 7. Existing and Proposed Section

The Ville Revitalization project brings back the former rich history of Black culture when the neighborhood was a thriving community.

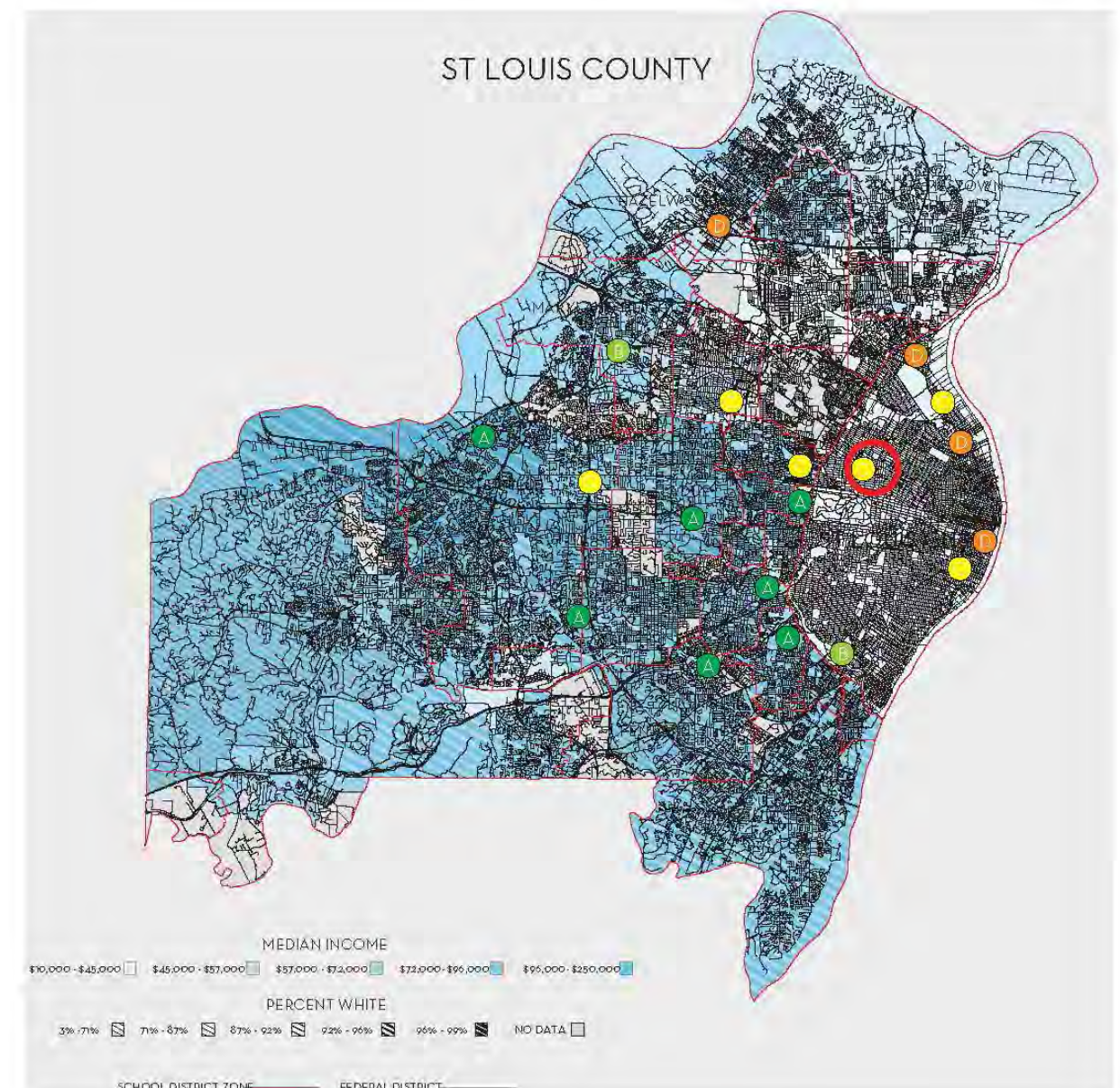


Fig 8. Midterm Critical Cartography

On this map the Ville is located in the red circle in the St. Louis District

08

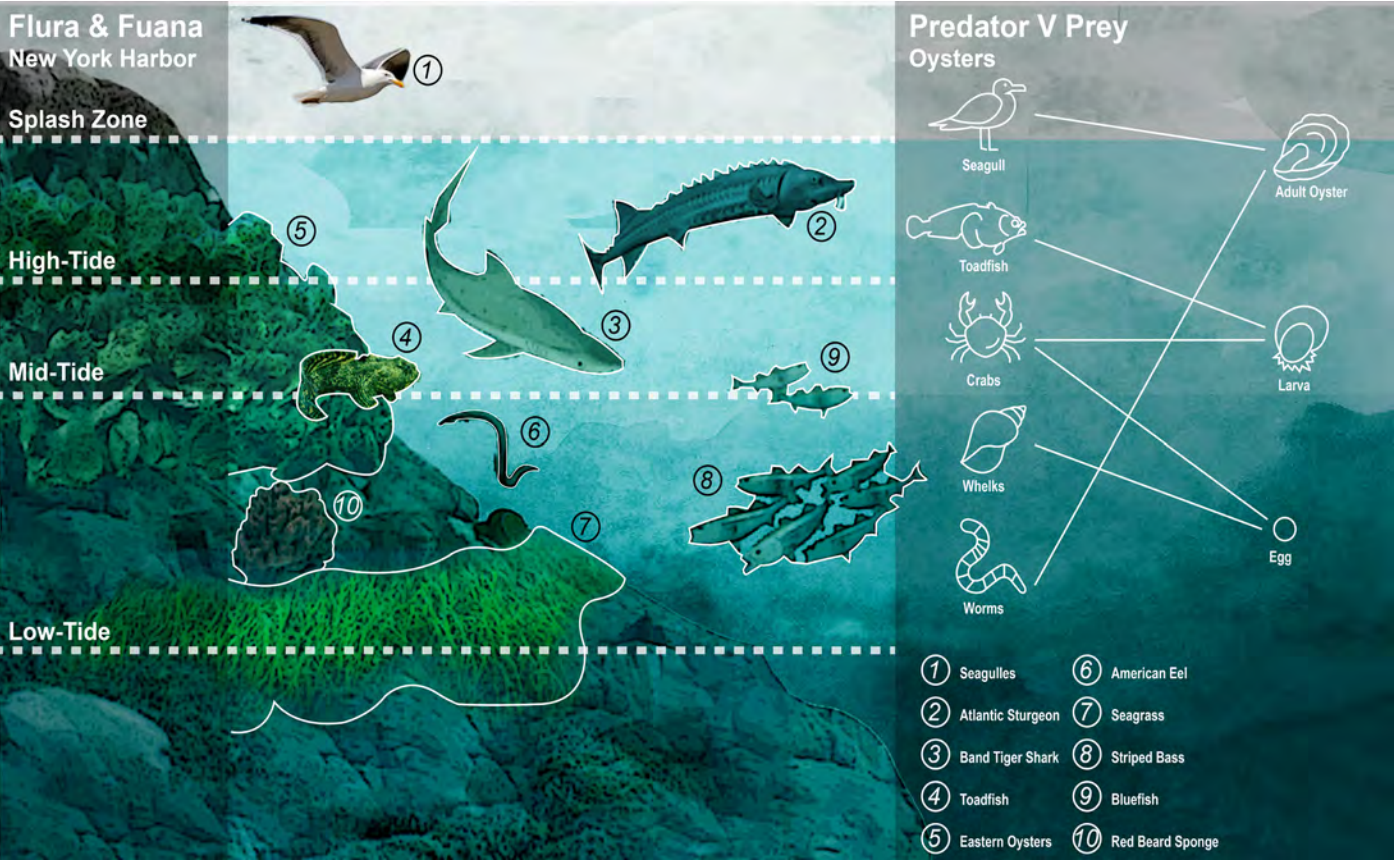
PROFESSOR: MARCUS CARTER
LOCATION: GOVERNORS ISLAND,
NEW YORK CITY
PARTNER: ETHAN ASPIRAS

Y - WAVE

I engaged in an intensive exploration of ecological coastal armoring and urban resilience, culminating in the design and fabrication of innovative sea wall panels and intertidal ecological units for Governors Island, NYC. This project required a multidisciplinary approach, integrating urban ecology, material science, and advanced fabrication techniques. Working closely with industry partner Fort Miller Group, I developed and refined prototypes through form-finding experiments, digital fabrication, and full-scale casting, ensuring that my designs not only performed structurally but also fostered biodiversity along New York's shoreline. Expanding beyond ecological restoration, I translated these forms into sculptural interventions for public space and further investigated their architectural potential at an urban scale, testing how these geometries could inform facade systems and spatial articulation. This studio challenged me to navigate the intersections of performance, aesthetics, and adaptability, pushing my ability to design across scales while engaging with real-world environmental imperatives.

SPRING 2024





Flura & Funa

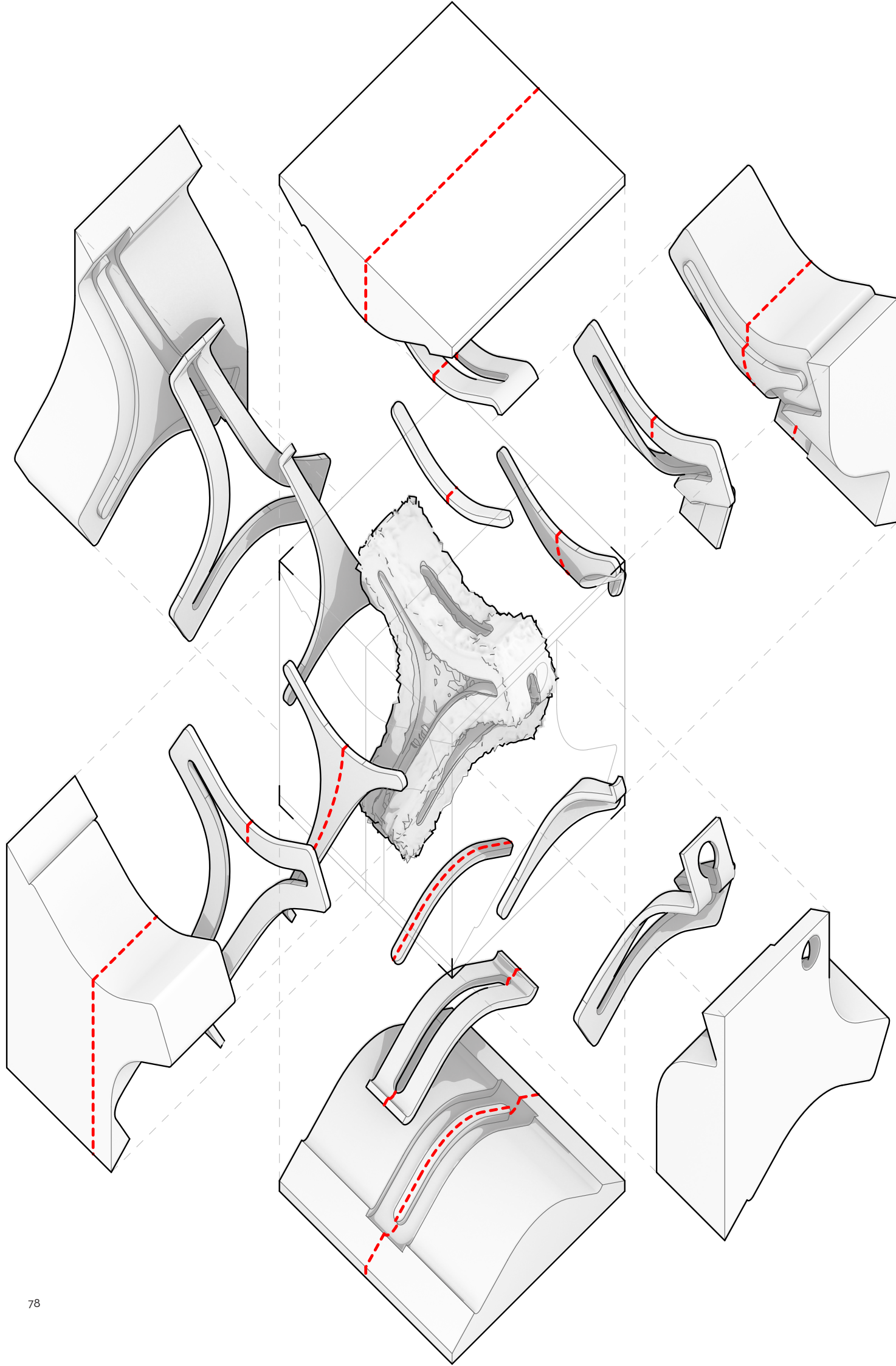
Highlighting the flora and fauna in Hudson river around governors island NYC



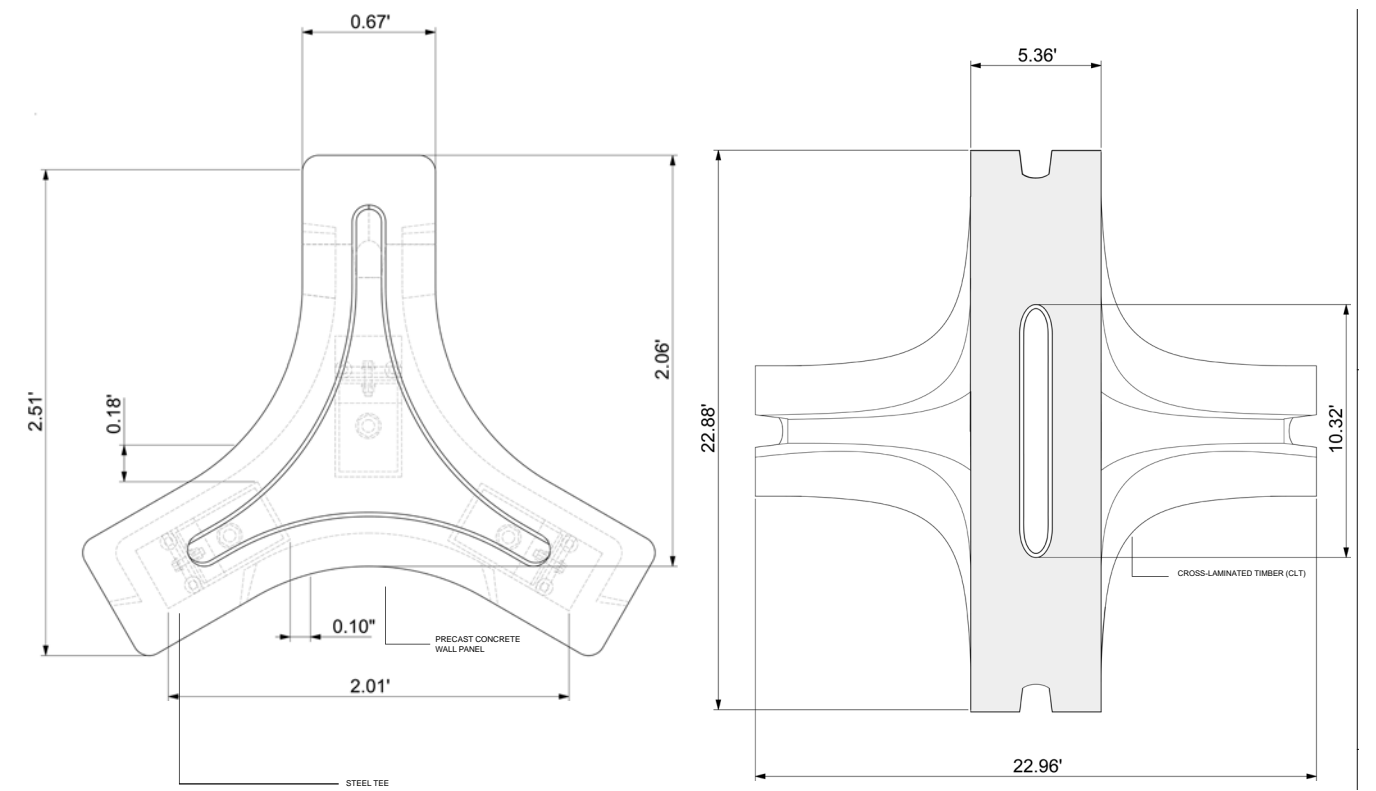
Site Plan



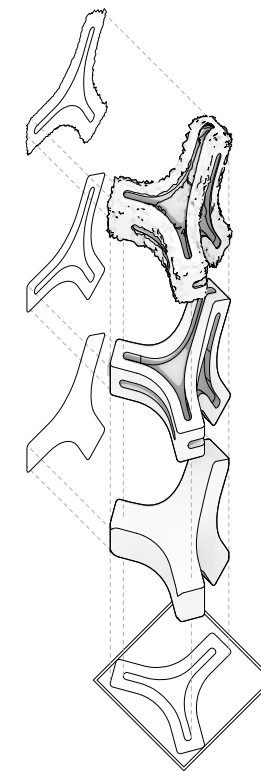
Aggregate Diagram



Y - WAVE

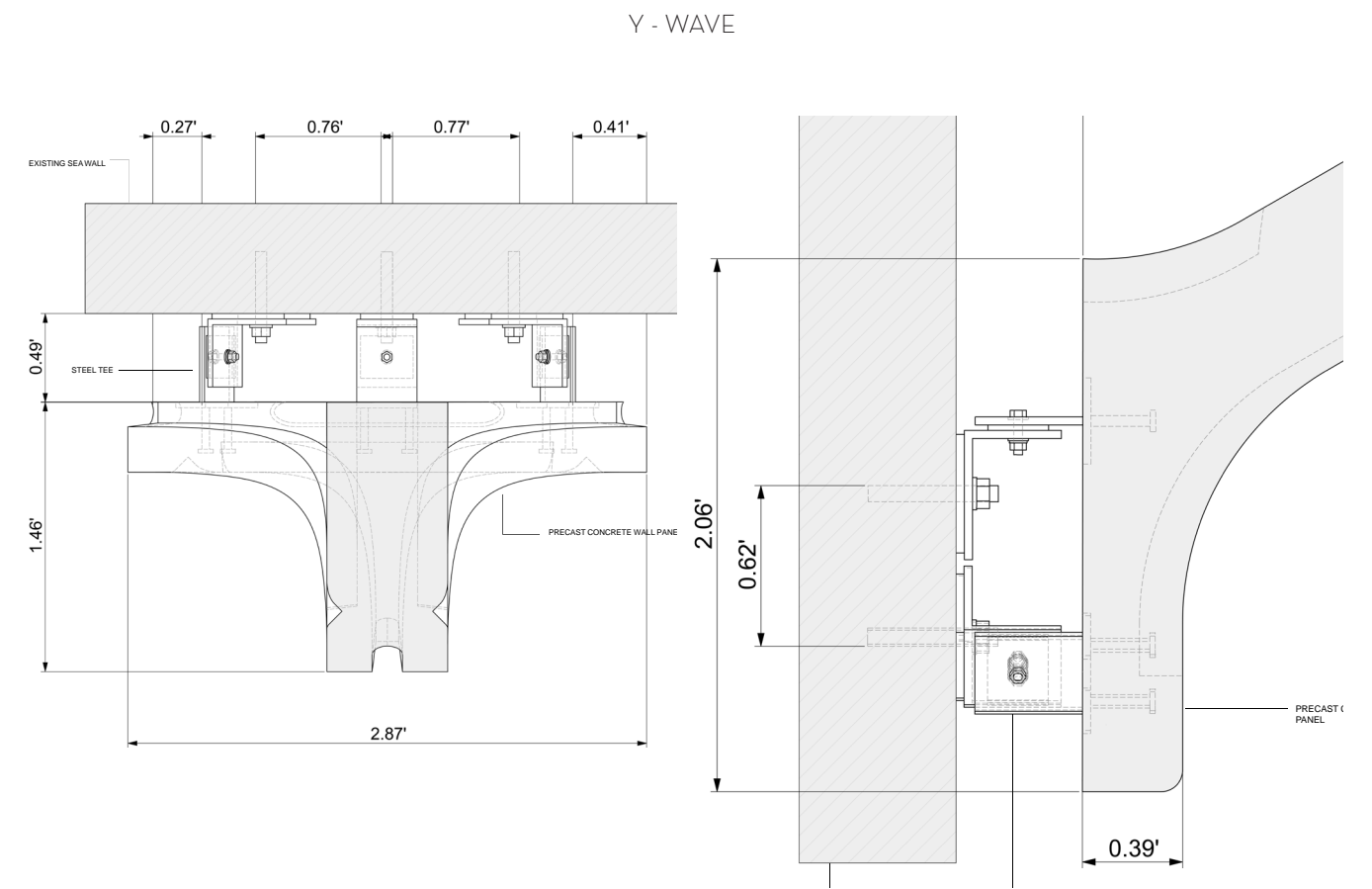
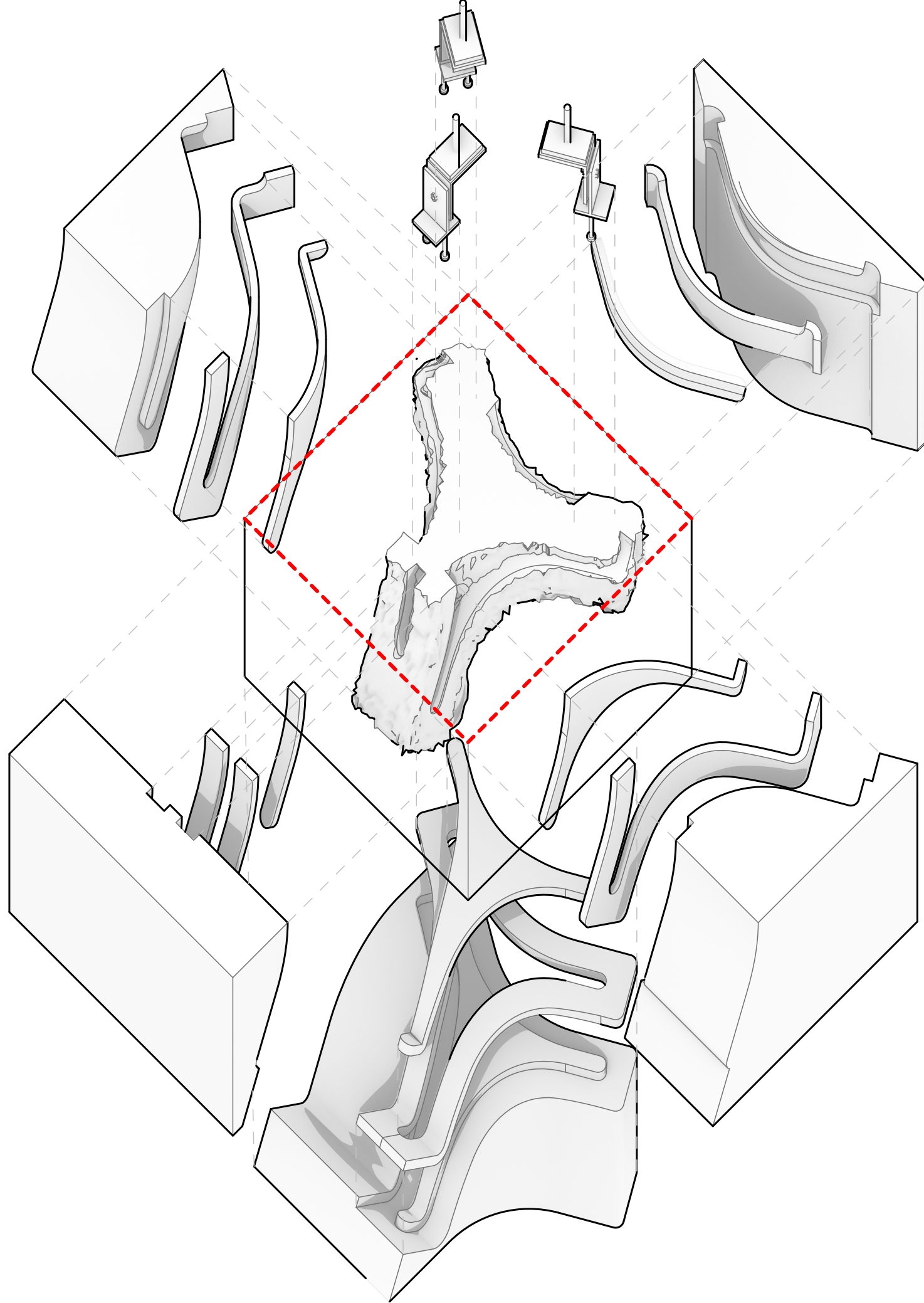


Armoring Unit Construction Elevation & Plan

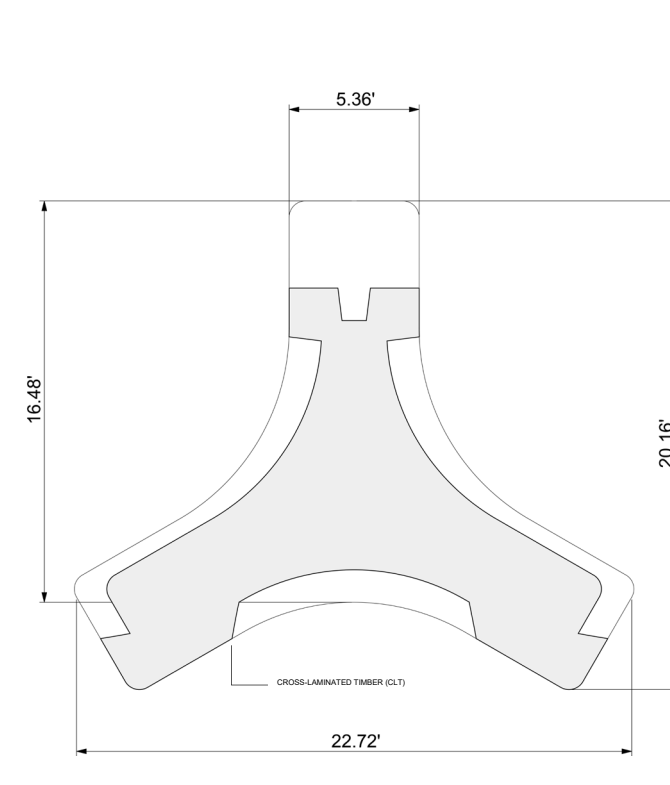


Armoring Unit Exploded Axon

Exploded parti drawing of the armoring units



Wall Panel Construction Plan & Elevation

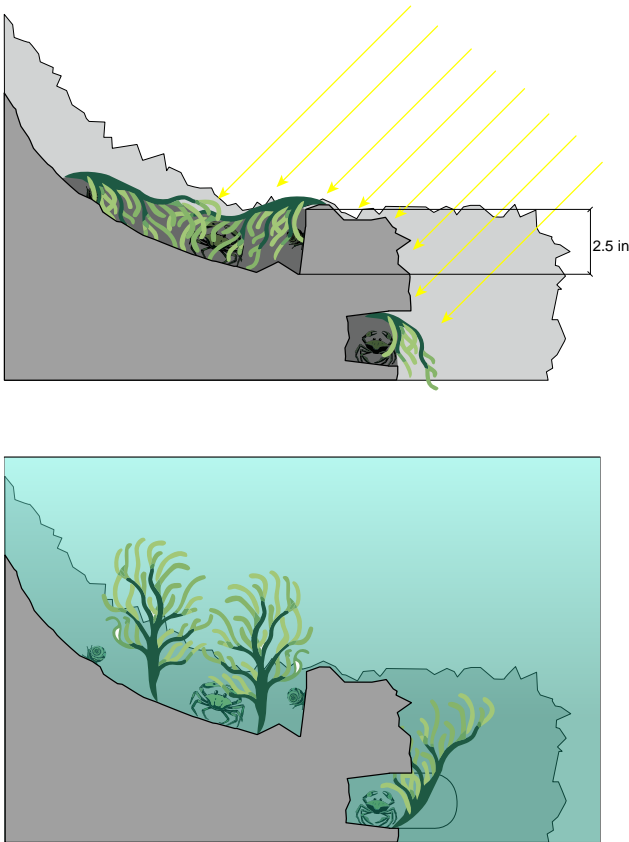


Wall Panel Section





Constrcution Photos



Enviromental Digram



Construction Photos



Render



Constrcution Photos



Render





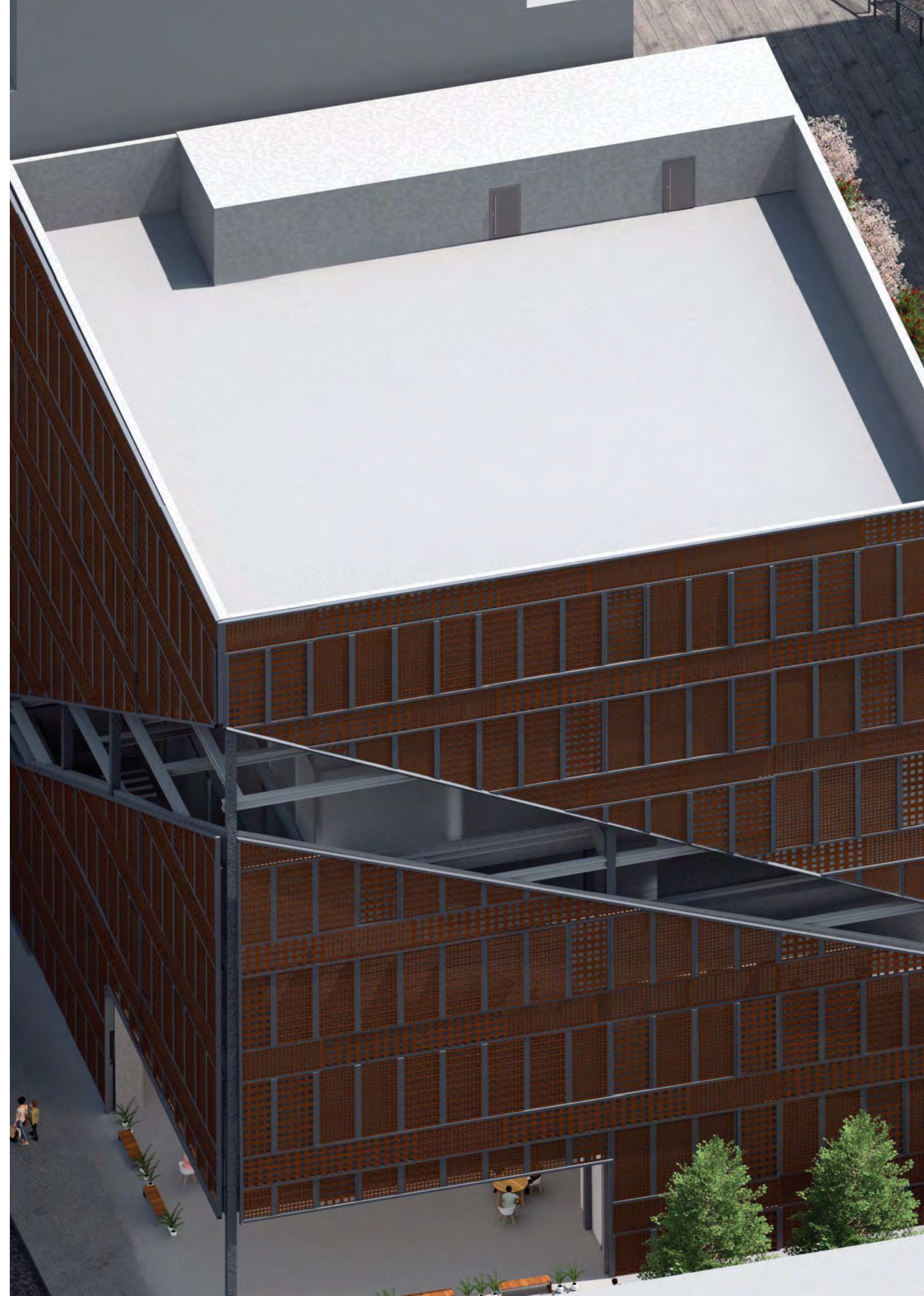
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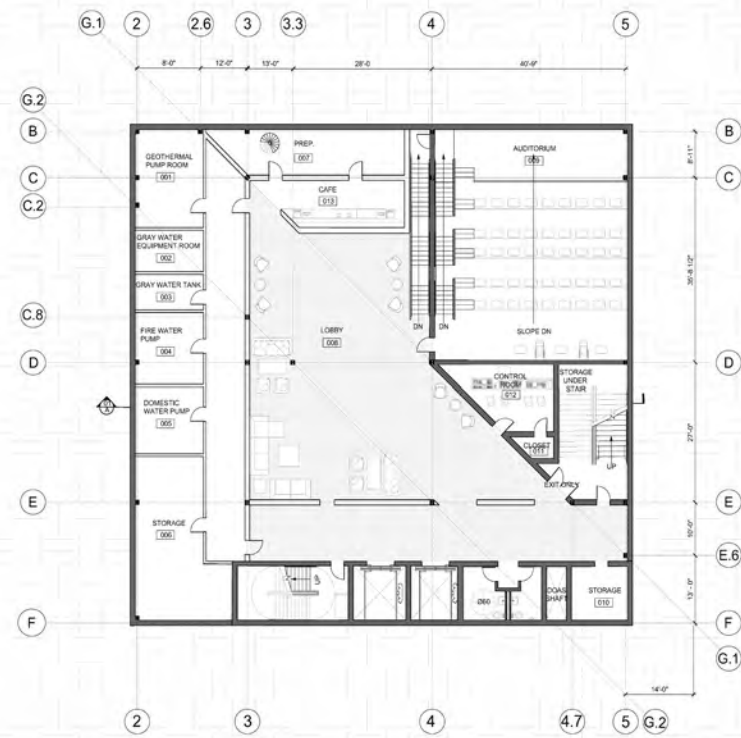
PROFESSOR: JEFFERSON ELLINGER
LOCATION: CHELSEA, NEW YORK CITY

CD - 1

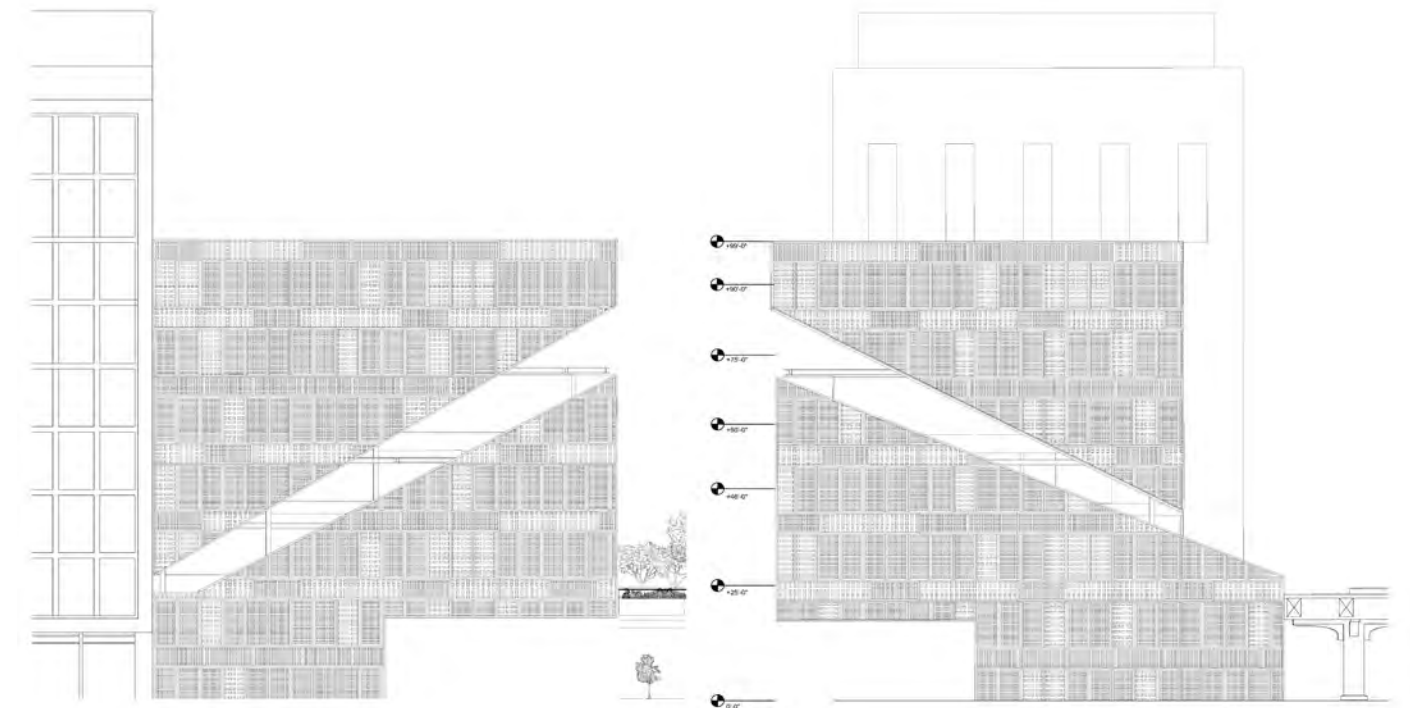
I developed a civic-scale architectural proposal for a contemporary branch library in Chelsea, New York City. This project required a synthesis of site-specific research, zoning and regulatory compliance, programmatic design, and environmental performance to create a meaningful public space that redefines the role of the library in the 21st century. Situated next to the High Line, my design responded to its unique urban context, balancing public accessibility with architectural innovation. Through iterative massing studies, facade articulation, and structural integration, I explored how digital and physical media influence spatial organization, circulation, and user engagement. My process included technical documentation, environmental analysis, and material detailing, ensuring a holistic approach to comprehensive architectural design. This studio challenged me to navigate the intersection of design vision, technical feasibility, and urban impact, reinforcing my ability to create integrated, contextually responsive architecture.

FALL 2024





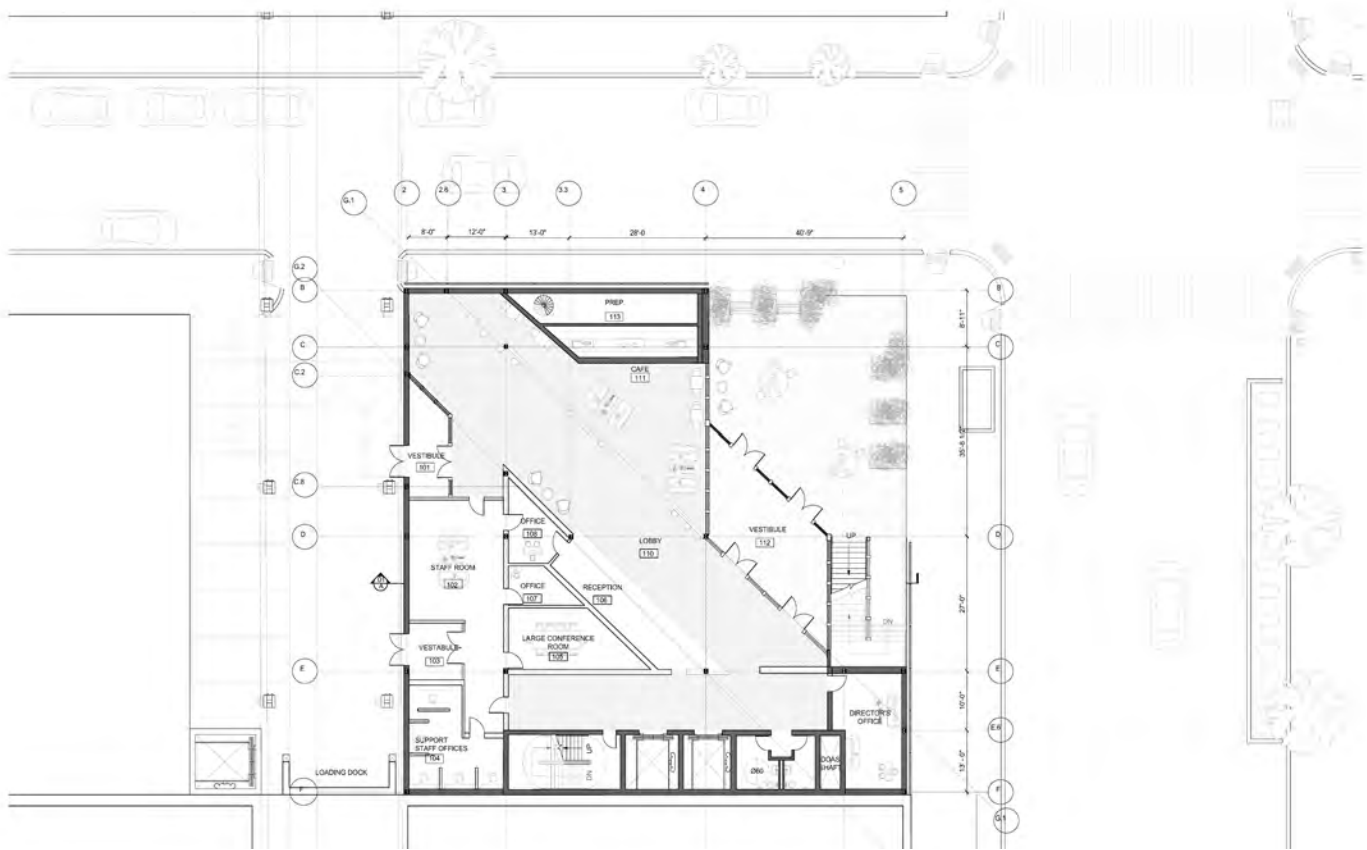
Basement Plan



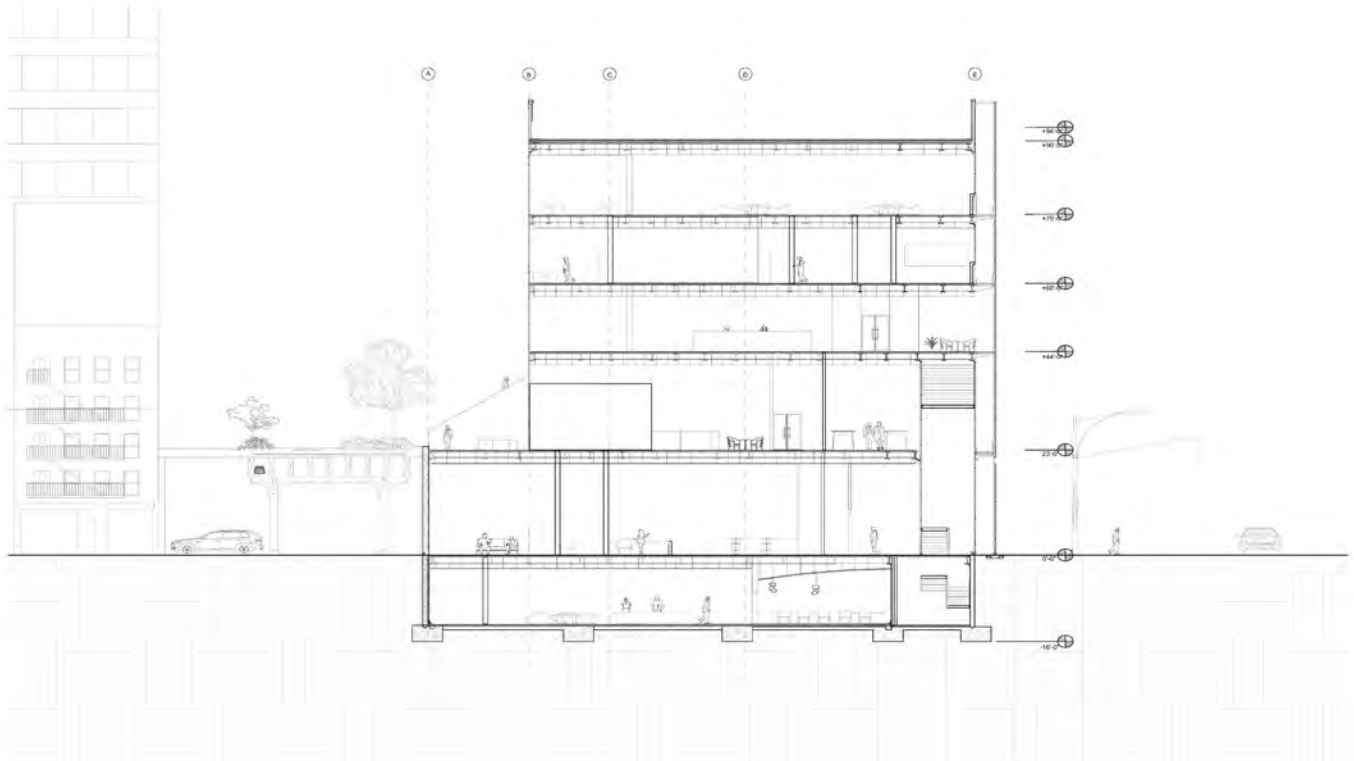
Elevation



Interior Render One



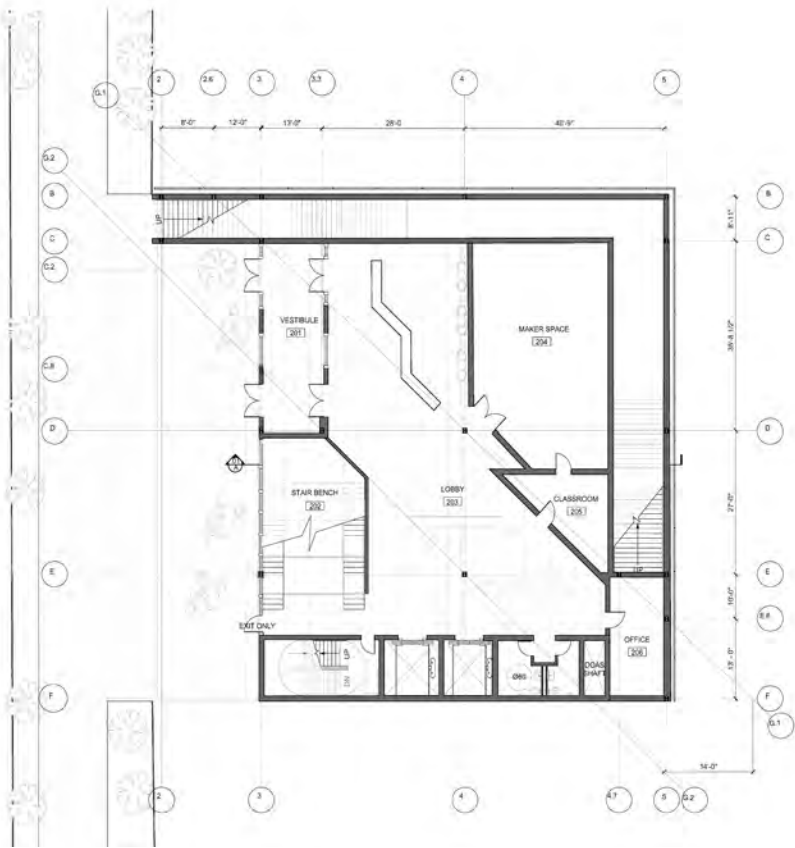
Ground Floor Plan



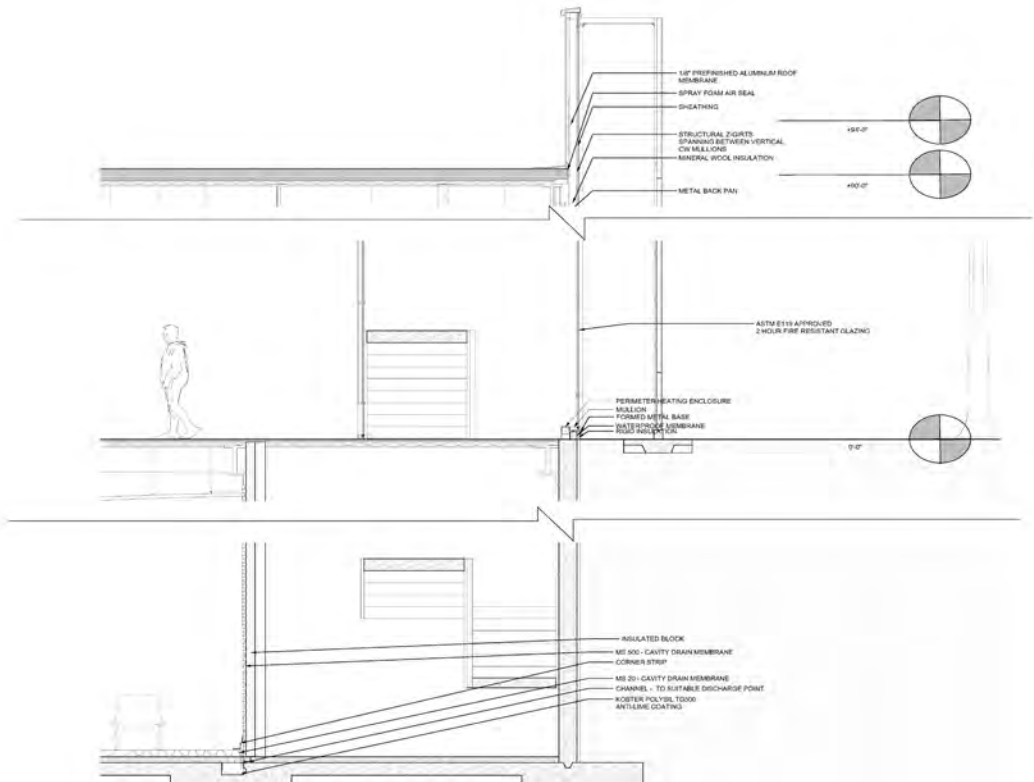
Section



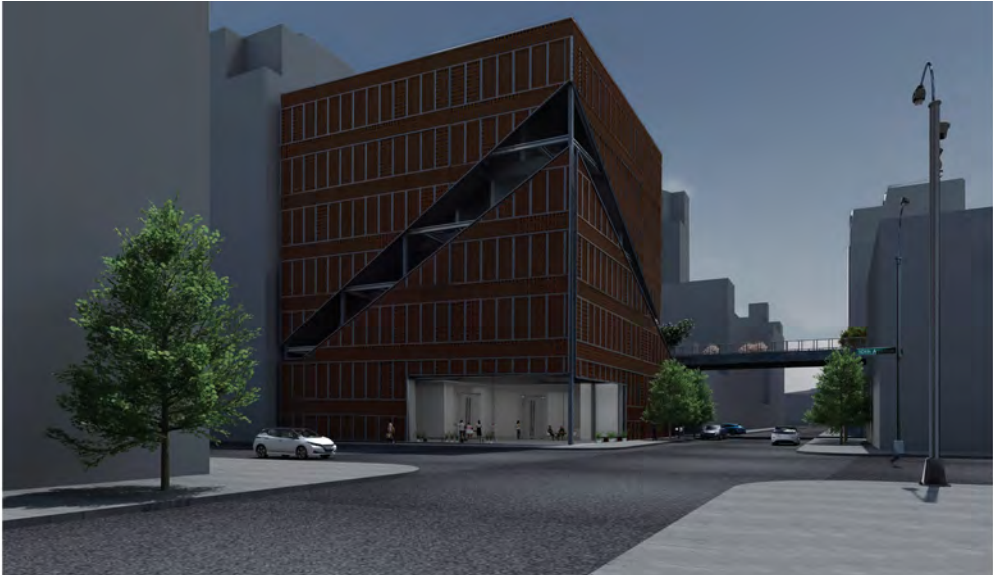
Interior Render Two



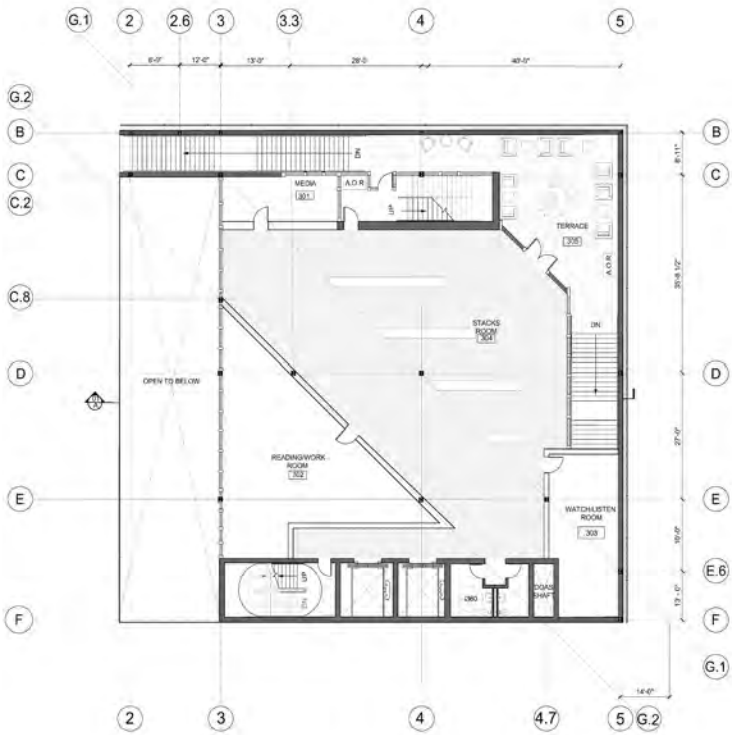
Second Floor Plan



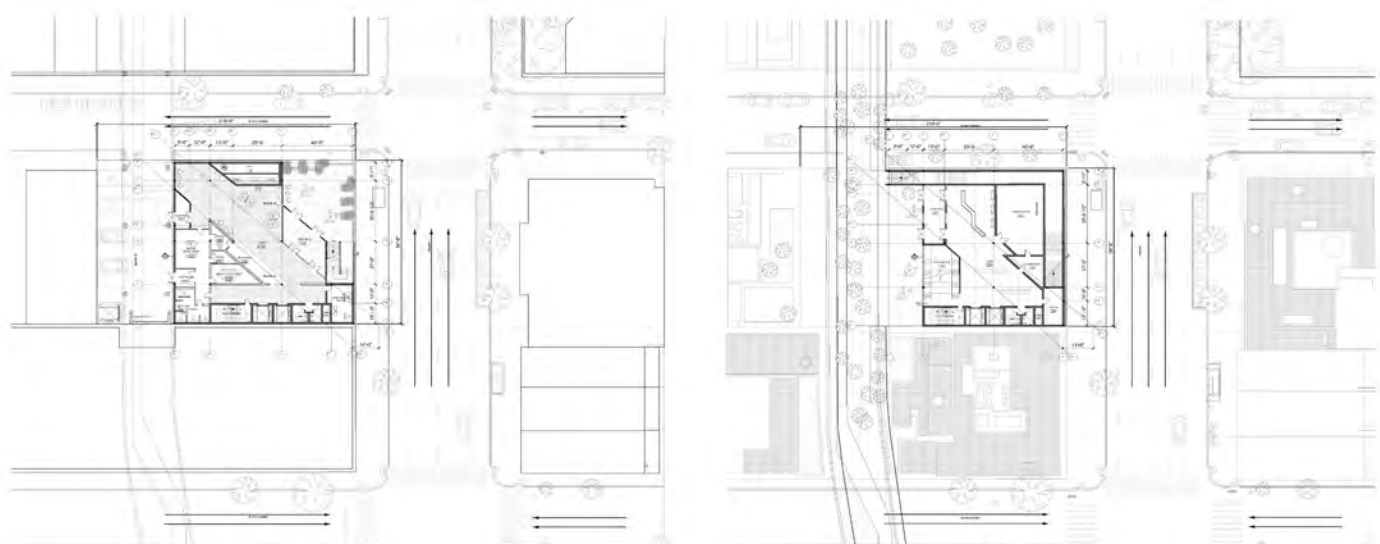
Wall Section



Street Render

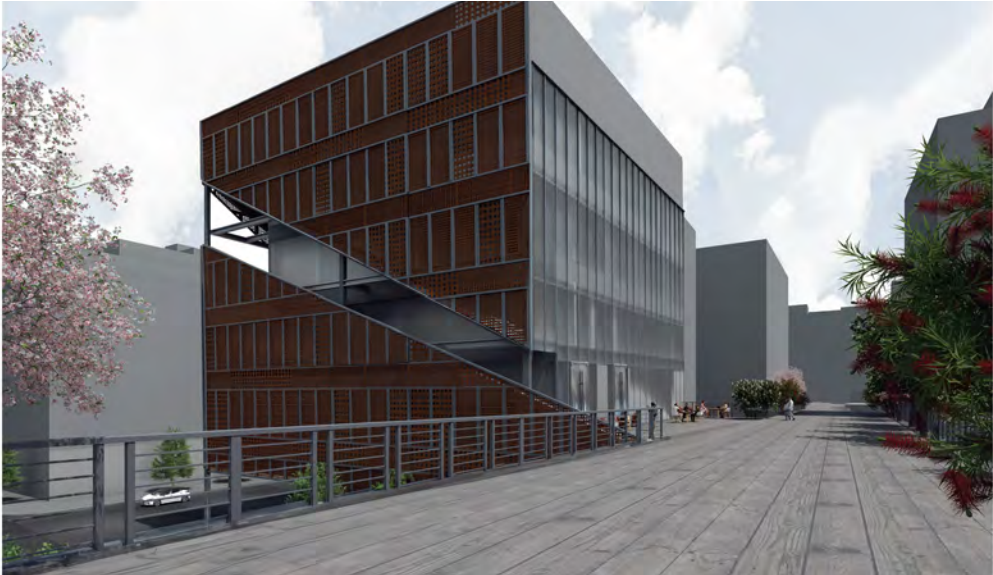


Third Floor Plan

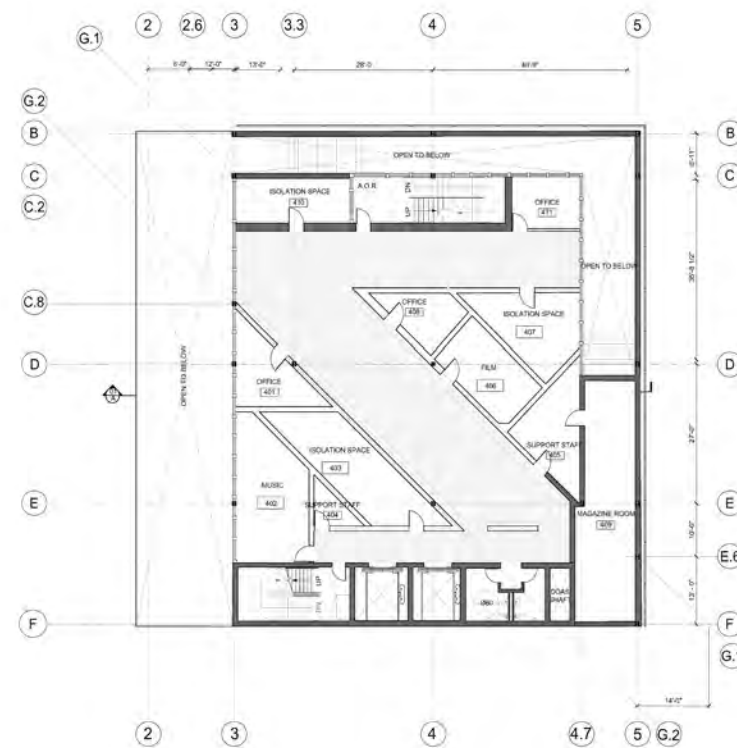


Ground Floor Site Plan

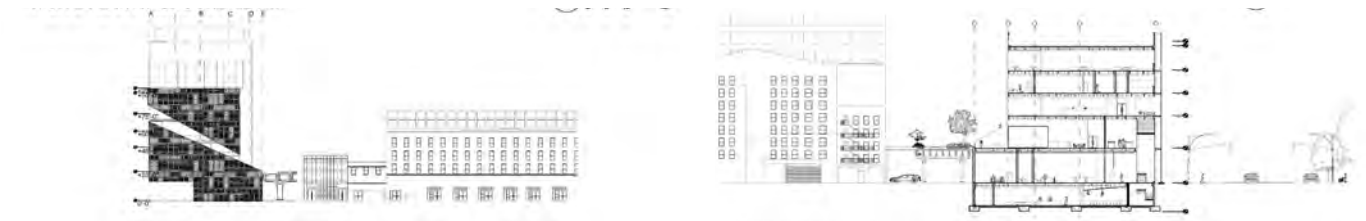
Highline Site Plan



Highline Render

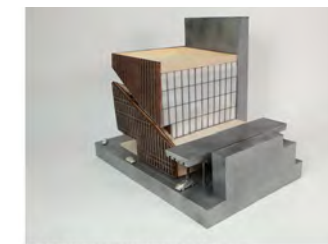
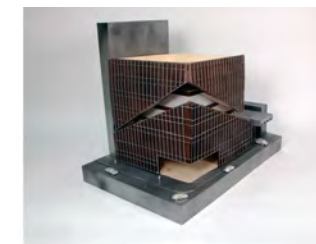


Fourth Floor Plan

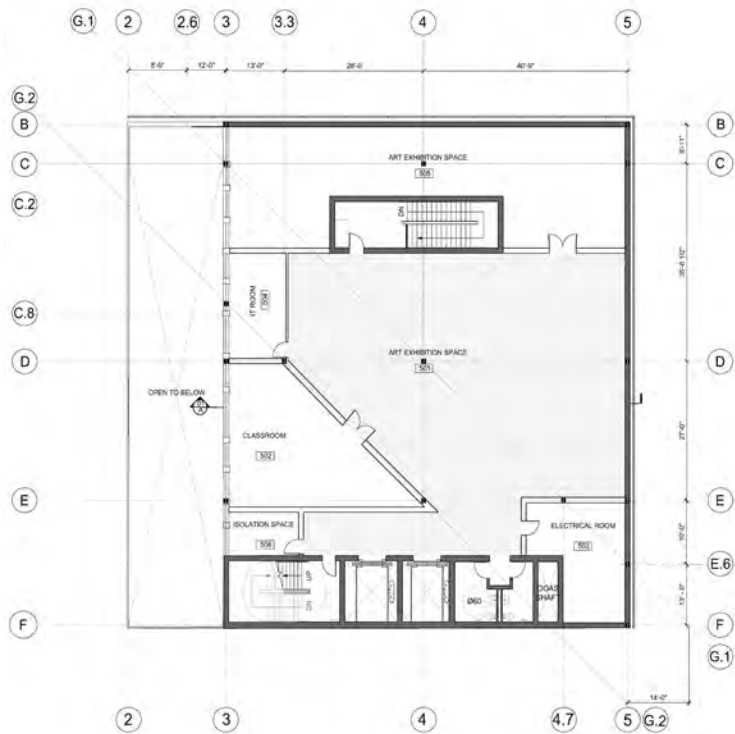


Site Elevation

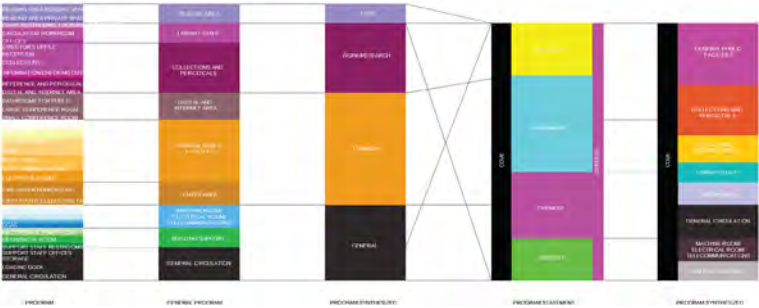
Site Section



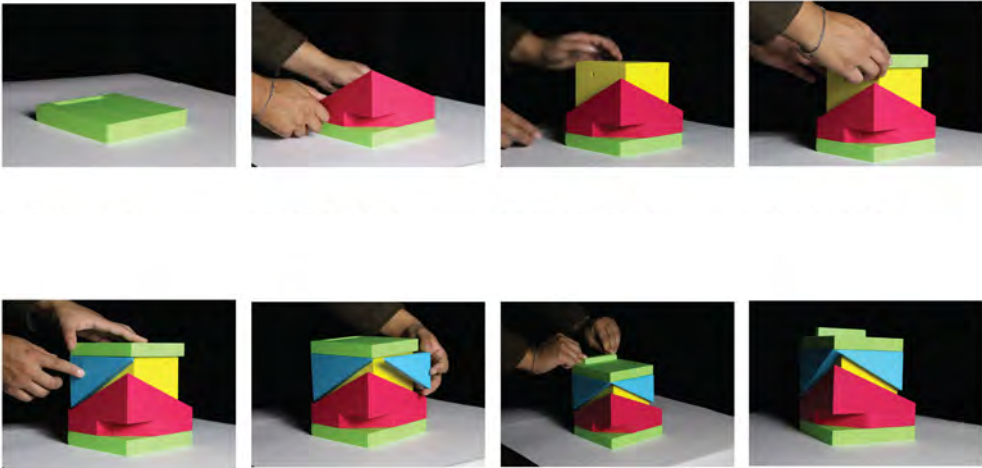
Modle Photo



Fifth Floor Plan



Program Bar



Program Modle