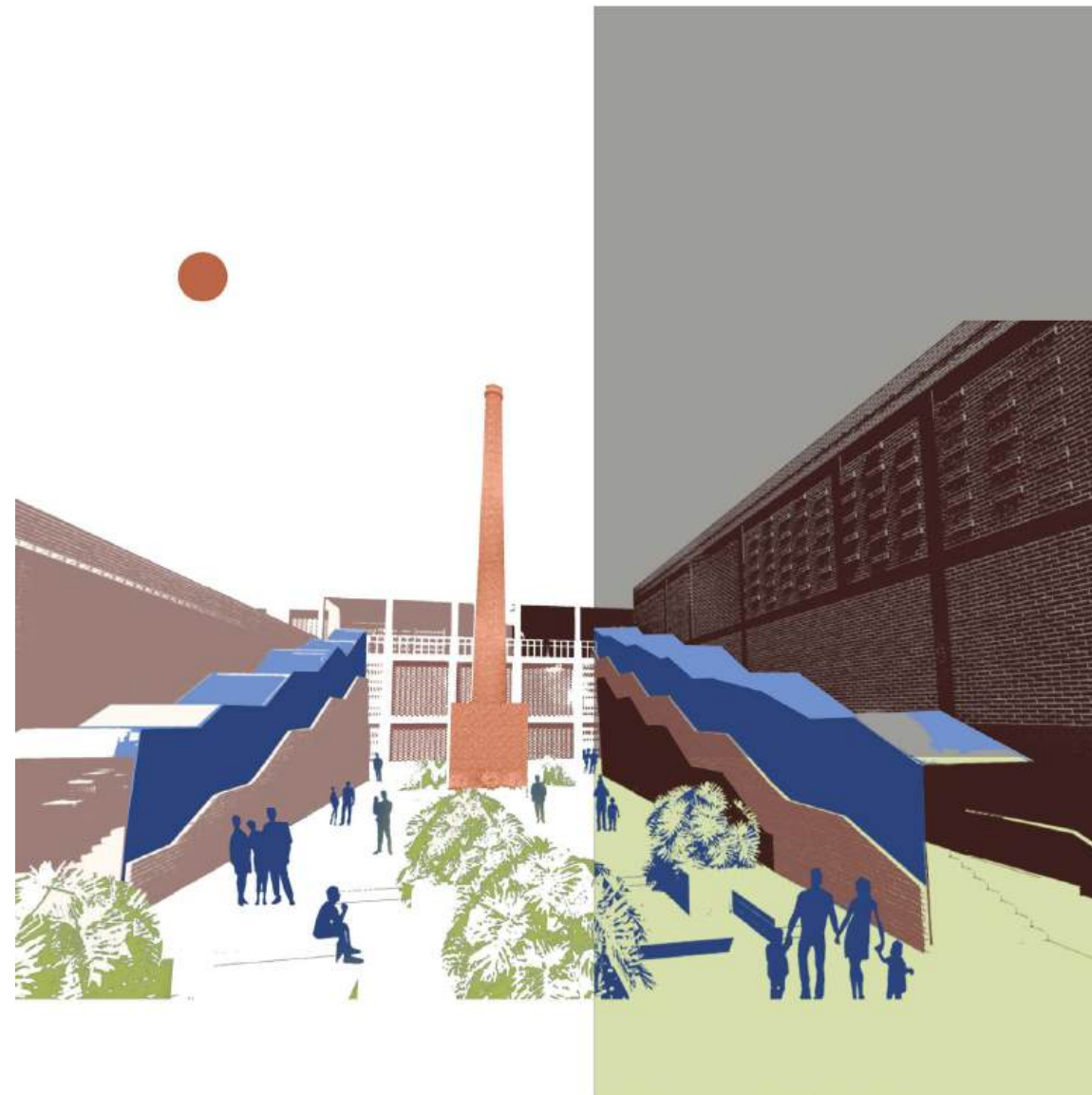




Architectural Portfolio
Rutuja Sandav



Extremely motivated to constantly develop my skills and grow professionally. I am confident in my ability to come up with interesting and efficient way of resolving a given task. I'm a great teamworker and communicator also very adaptable and flexible with given situations.

Academic Background

Master's of Architecture- Illinois Institute of Technology (2022-2024)

Bachelor's of Architecture- Dr. Baliram Hiray College of Architecture (2015-2020)

Higher Education in Science- Jai Hind College (2013-2015)

Secondart Education- Holy Cross High School (2002-2013)

Work Background

Intern Architect - Mandviwala Qutub and Associates, Mumbai (2018-2019)

Junior Architect- Mandviwala Qutub and Associates, Mumbai (2020-2022)

Architectural Intern- Weiss Architects LLC, Chicago (2023-2024)

Architectural Associate- Morris Architects Palnners, Chicago (2024-current)

Job Roles

- Collaborated with an Associate Architect on diverse residential and commercial projects.
- Managed project coordination and conducted site inspections to ensure alignment with design intent.
- Assisted in material selection and coordination, contributing to project aesthetic and functionality.
- Developed design concepts and processes under the guidance of senior team members, enhancing creative output.
- Played a key role in the design and planning of residential projects, including overall design processes.
- Contributed to the creation of detailed plans for commercial complexes, ensuring compliance with international standards.
- Conducted research and engaged with project briefs, effectively coordinating with 3D rendering teams.
- Oversaw coordination and assisted in model making for luxury high-rise developments.
- Enhanced elevation designs for residential projects, integrating innovative solutions.
- Supported presentations by producing AutoCAD drawings and SketchUp models for various projects.
- Contributed to the design details for physical models.
- Expanded knowledge of building codes and regulations, fostering compliance in project execution.
- Engaged in a variety of projects, including single-family residences, a dog grooming center, and sports field design.
- Developed a robust skill set in architectural design across multiple building types and requirements.

Software Skills

AutoCAD



Revit



Vectorworks



Rhinoceros



Grasshopper



Sketchup



Twinmotion



VRAY



Enscape



Lumion



Procreate



Photoshop



Illustrator



InDesign



Content



1. Weave House, Chicago, USA



2. Marketecture, Mumbai, India



3. Empowered Senior Housing, Chicago, USA



4. Excellencea, Mumbai, India



5. PHRC, Pune, India



7. AI to Abstract Architecture

WEAVE HOUSE, CHICAGO

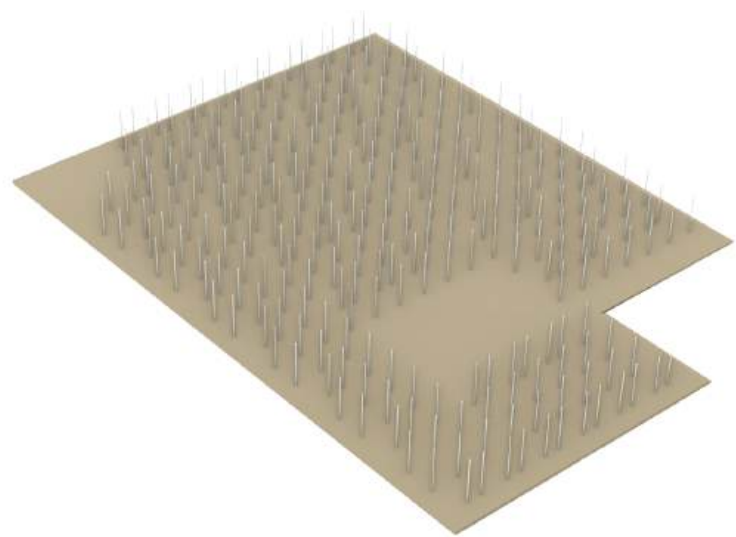
LOST AND FOUND PUBLIC FACILITY



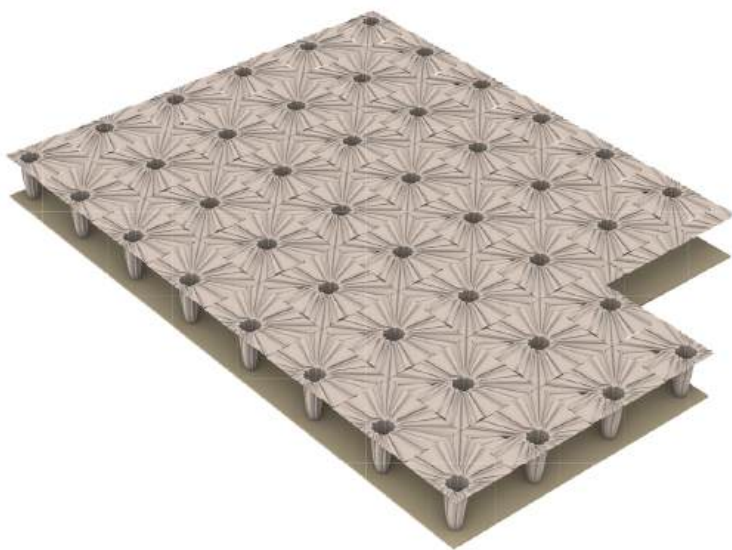
Under the mentorship of Professor John Ronan, this studio project reimagined the design process by emphasizing material selection as the starting point for architectural exploration. Set in the heart of Chicago, the project aimed to design a public storage facility functioning as a “lost and found” center, offering a practical yet imaginative solution to the concept of urban storage. Working in collaboration with my studio partner, Tassmai, we selected fabric as our primary material, intrigued by its versatility and lightweight properties.

Our design process revolved around the innovative use of fabric to create foldable, movable storage shelves—an essential feature of the facility. These shelves were not only easy to install but also provided flexibility for reconfiguration, making the space highly adaptable to varying storage needs. The choice of fabric brought a tactile and approachable quality to the structure, contrasting with the often rigid nature of traditional storage facilities.

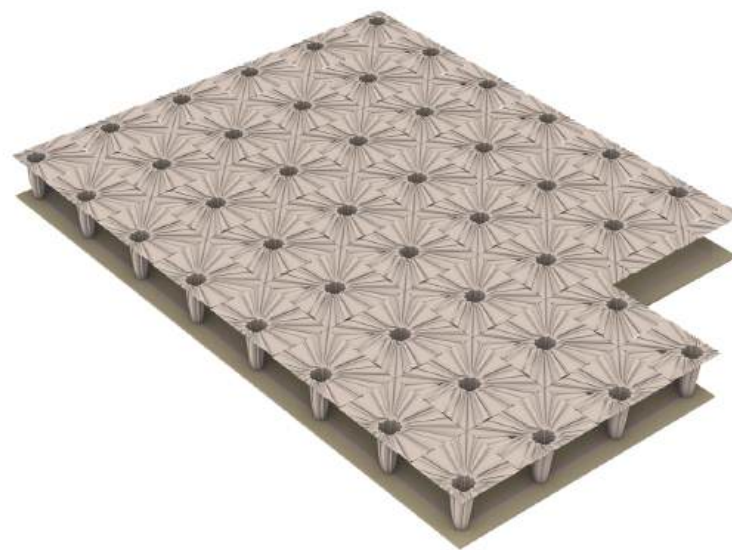
This project was an exciting departure from conventional methodologies, as the material-first approach challenged us to think creatively about form and function simultaneously. By allowing the material to inform the structure, we were able to design a building that was both functional and uniquely expressive, aligning with the needs of its users while pushing the boundaries of architectural design. The experience highlighted the importance of innovation, collaboration, and a hands-on approach to problem-solving, resulting in a project that was both practical and thought-provoking.



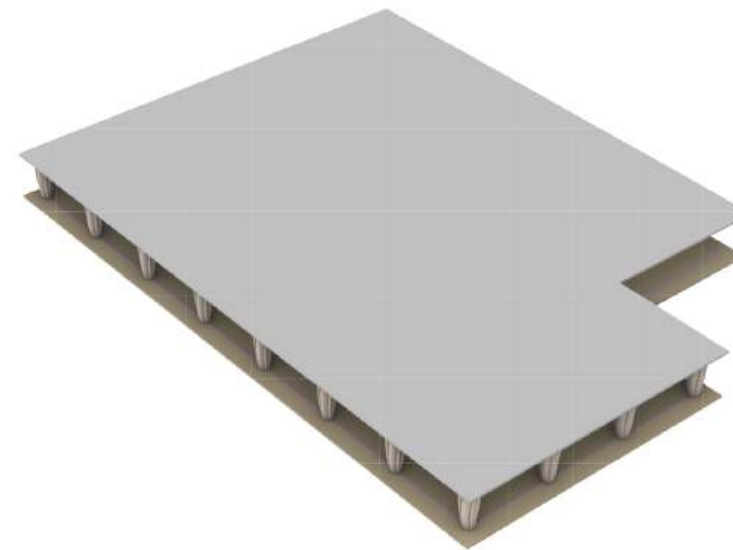
1. SHORING TO SUPPORT FORMWORK



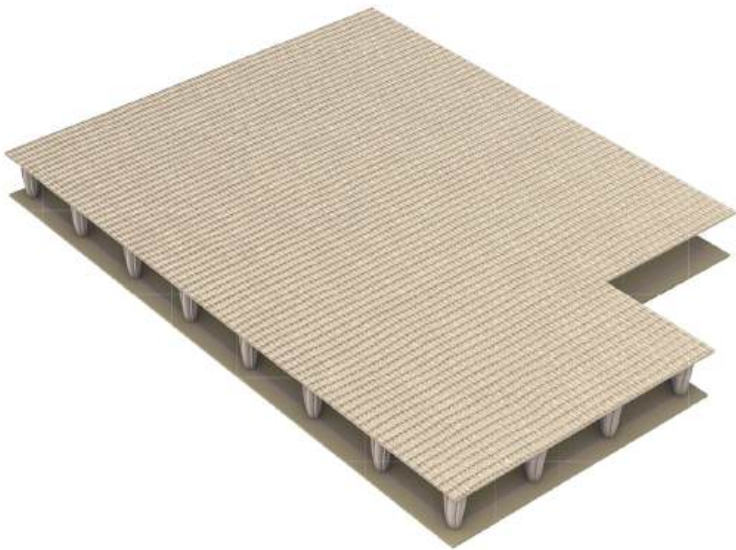
2. FABRIC FORMWORK



3. GLASS AND WALL FIXTURES



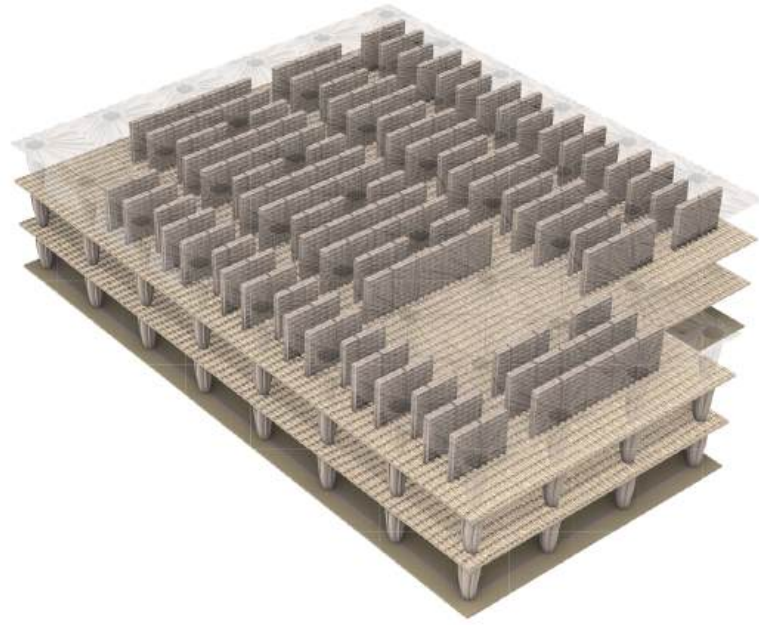
4. POUR CONCRETE TO FORM COLUMNS AND SLAB



1.SLAB COVERED WITH FABRIC



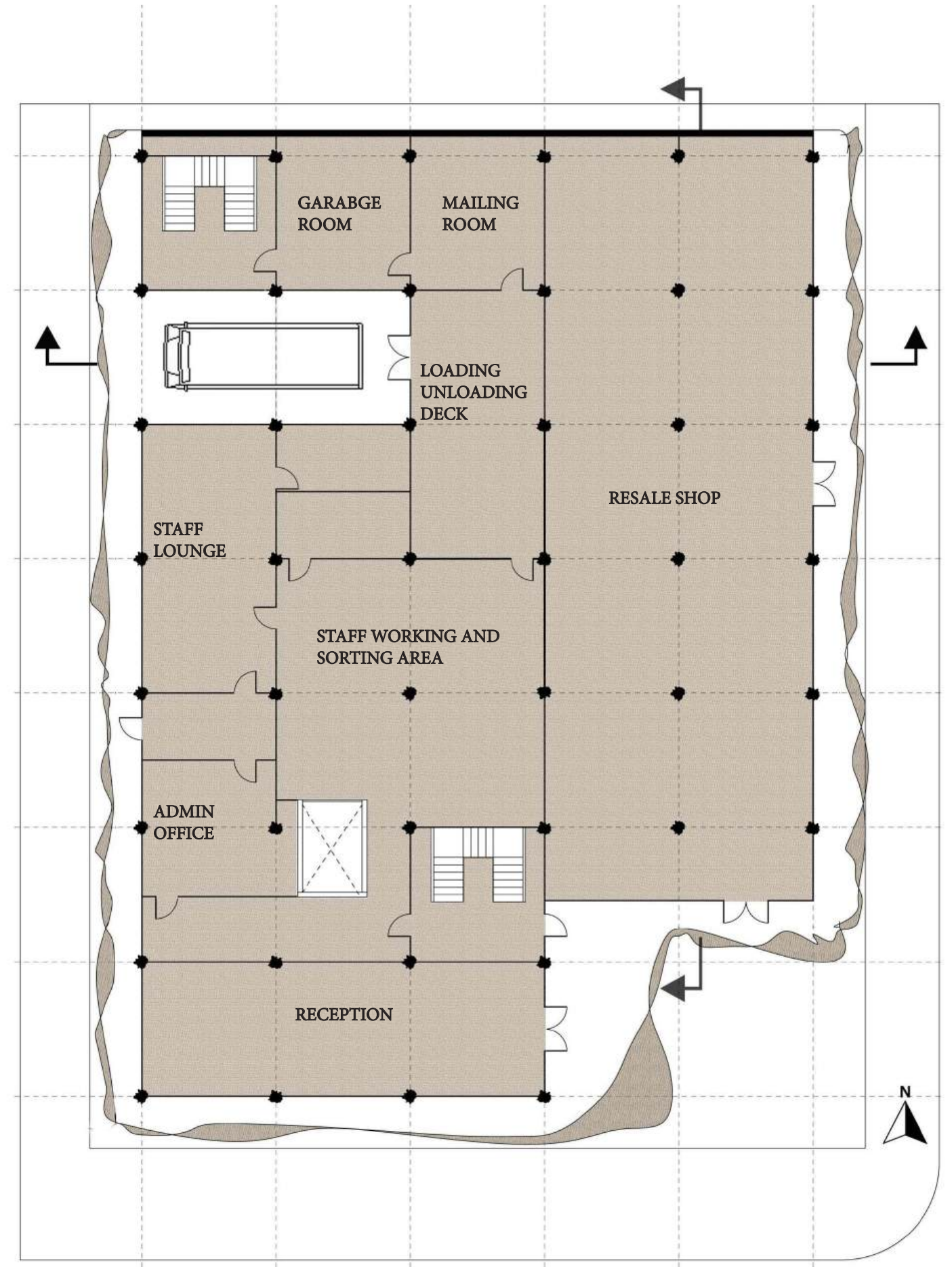
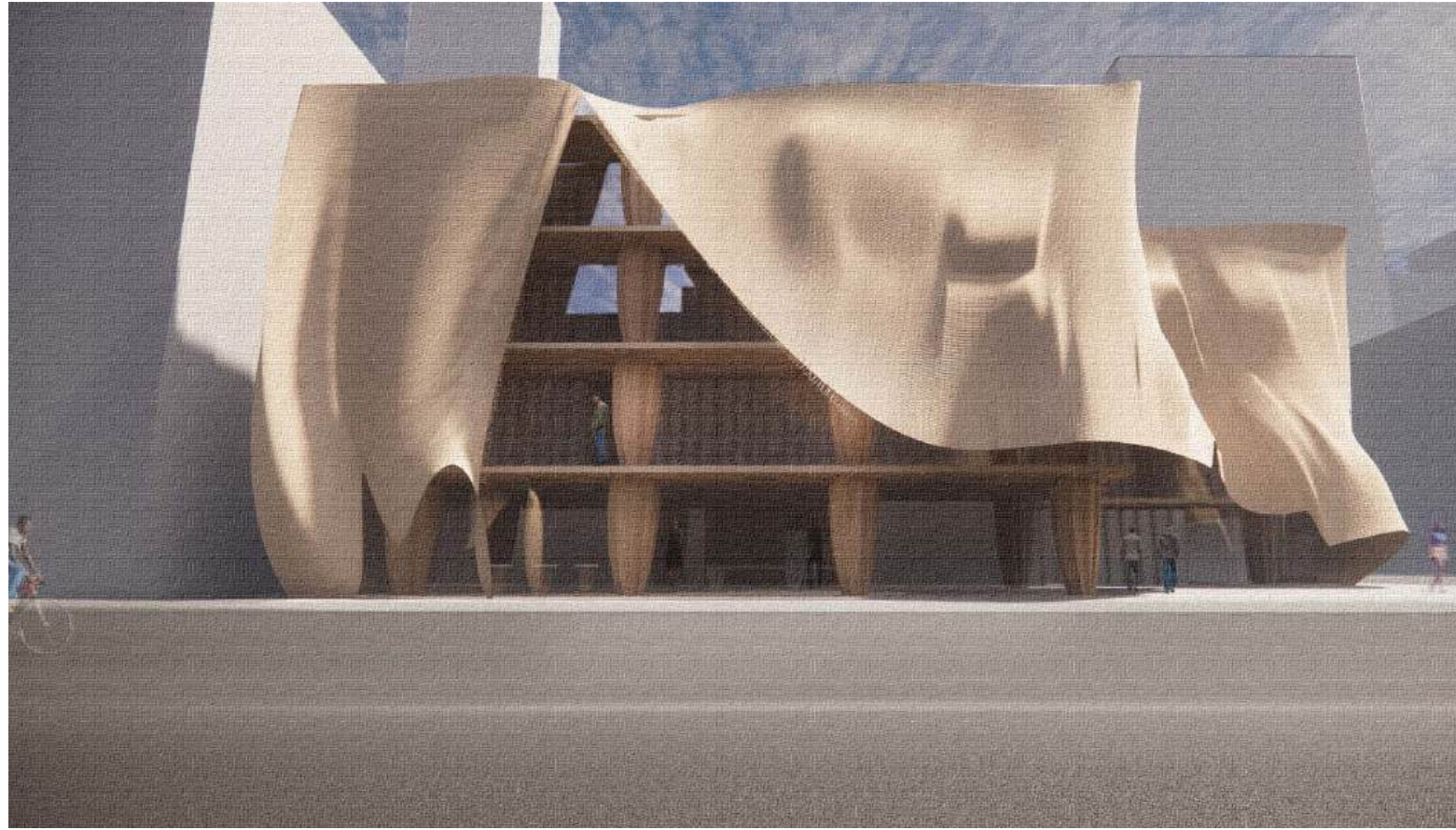
6. FOLDED FABRIC SHELVES COME TO THE SITE



7. INSTALLING FABRIC SHELVES WITH SHORING



8. FABRIC FACADE ENVELOPE

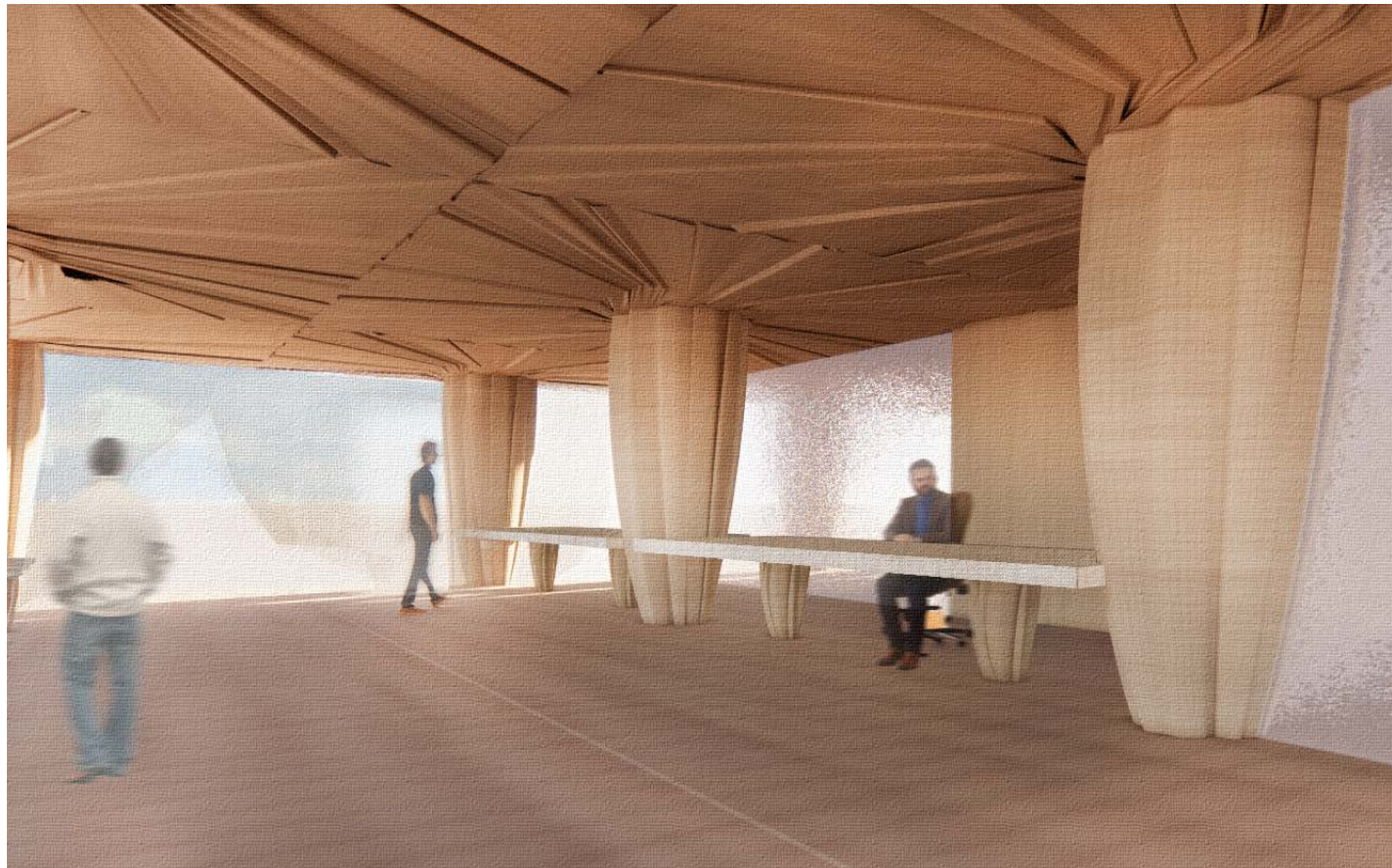




RESALE SHOP



STORAGE AREA



RECEPTION AND INQUIRY DESK



STORAGE AREA

MARKETECTURE, MUMBAI

COMMUNITY MARKET AND CULINARY SCHOOL

Marketcture stands as a vibrant tribute to cultural richness, revitalizing urban spaces with a blend of tradition and modernity. It's more than just a building; it's a symbol of shared values. Situated in the heart of the city, Marketcture reclaims its role as a focal point for communal life. Rooted in local culture, it offers a bustling marketplace where visitors can explore regional flavors and artisanal crafts, immersing themselves in the essence of the area. The design of Marketcture is deeply influenced by its historical context. The towering chimneys, once symbols of power house, seamlessly integrated into the architecture to signify adaptation and renewal.

Built with exposed brick and concrete, Marketcture pays homage to local architecture while prioritizing sustainability and adaptive reuse. As Marketcture becomes part of the urban landscape, it signals a new era of community engagement and cultural appreciation. Here, locals and visitors come together to celebrate the diverse tapestry of traditions and stories that define the city's identity. Marketcture isn't just a marketplace; it's a symbol of resilience and belonging, where the spirit of community thrives.





MANDIR/TEMPLE



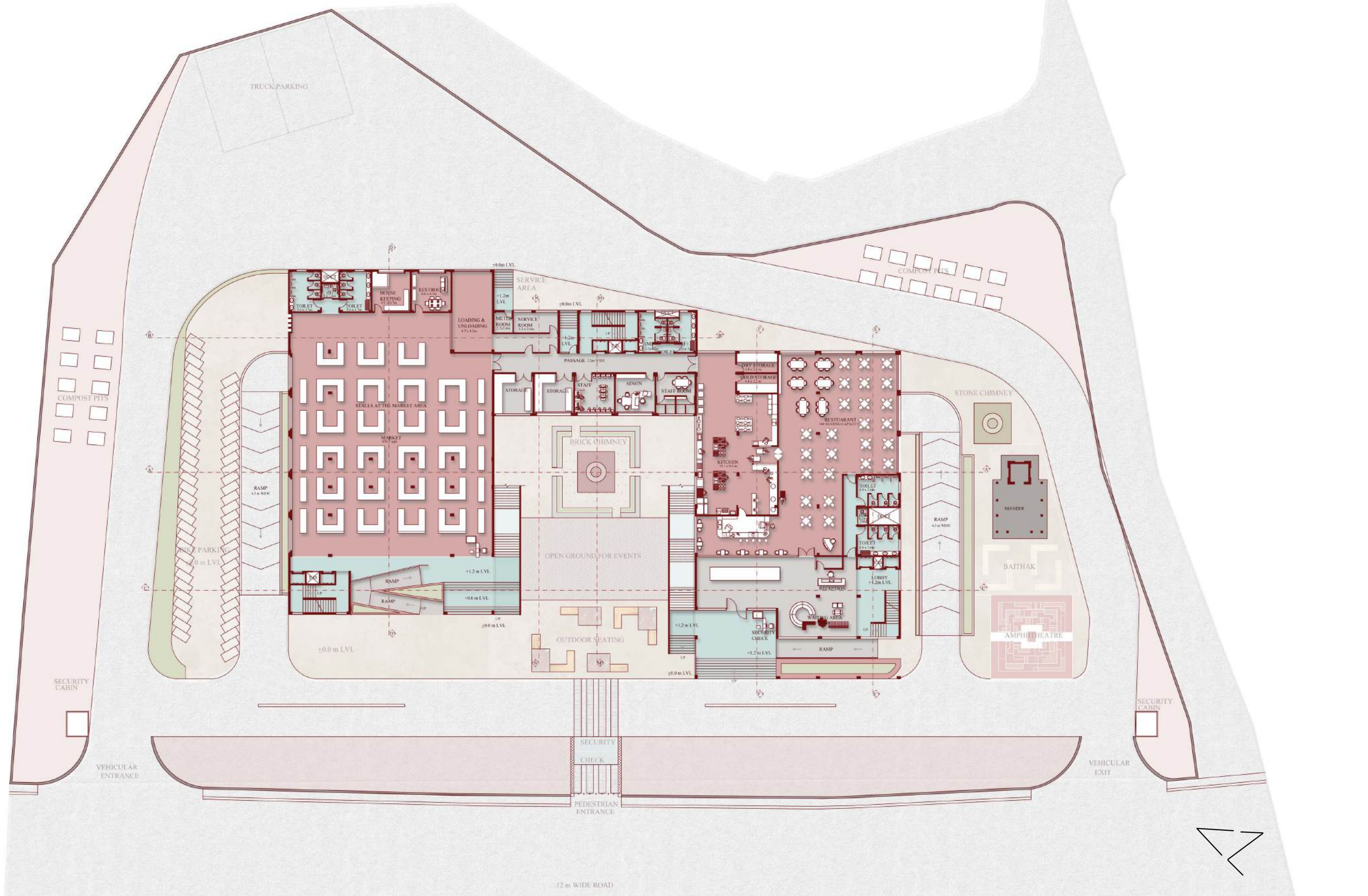
AERIAL VIEW

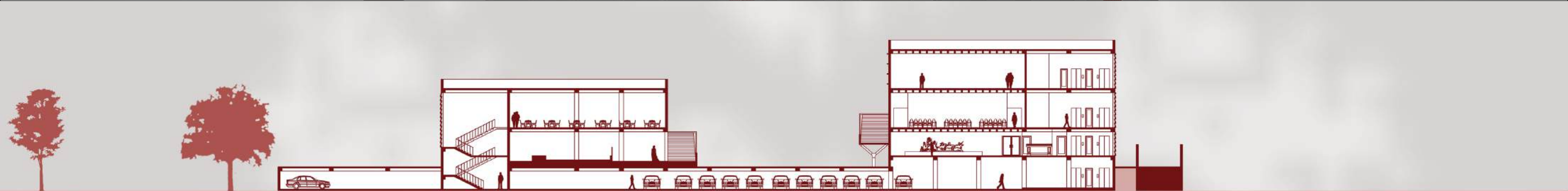
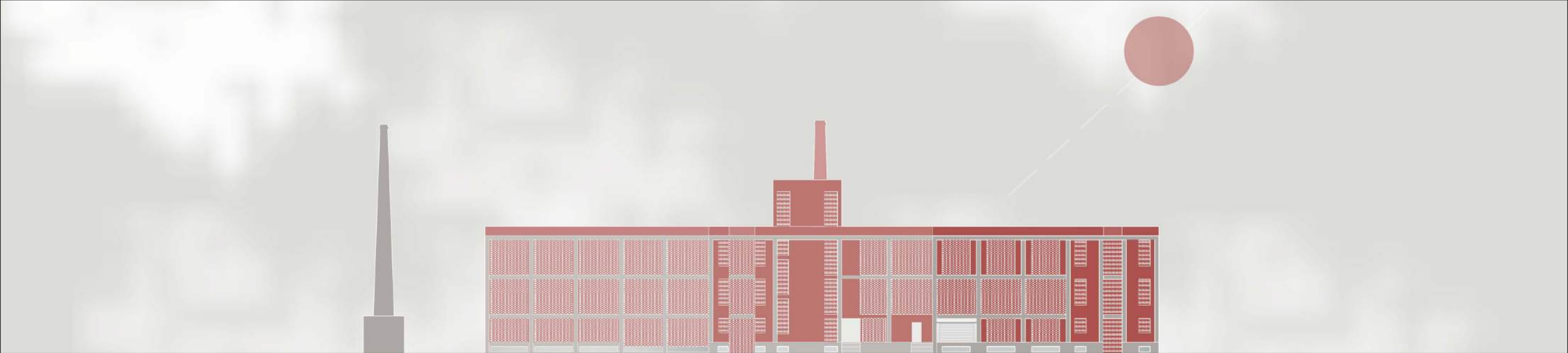
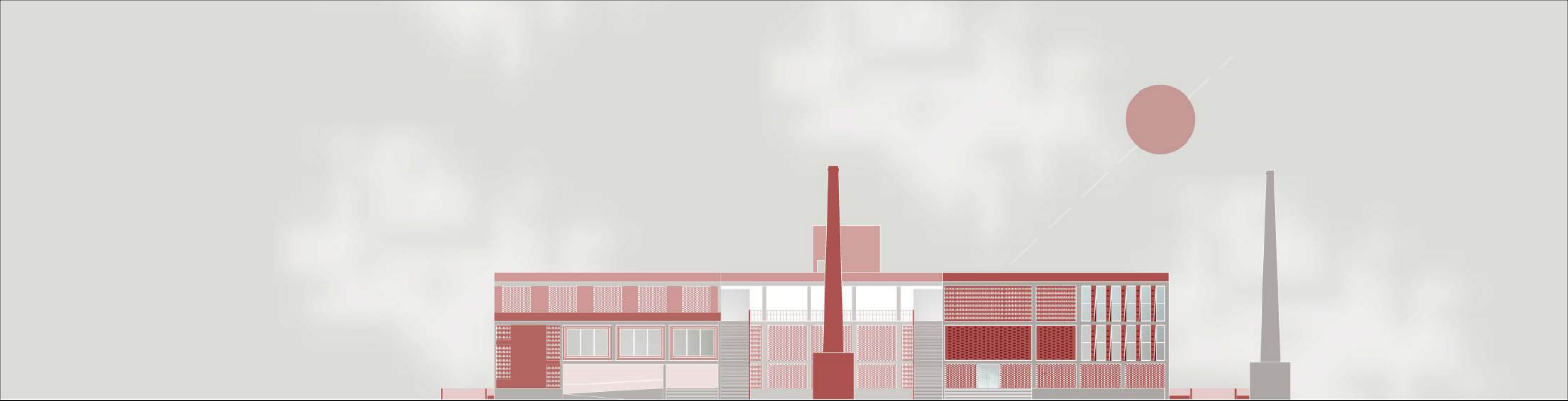


RESTUARANT



CULINARY LEARNING AREA





EMPOWERED, CHICAGO

MIXED USED BUILDING- SENIOR HOUSING AND COMMERCIAL SHOPS

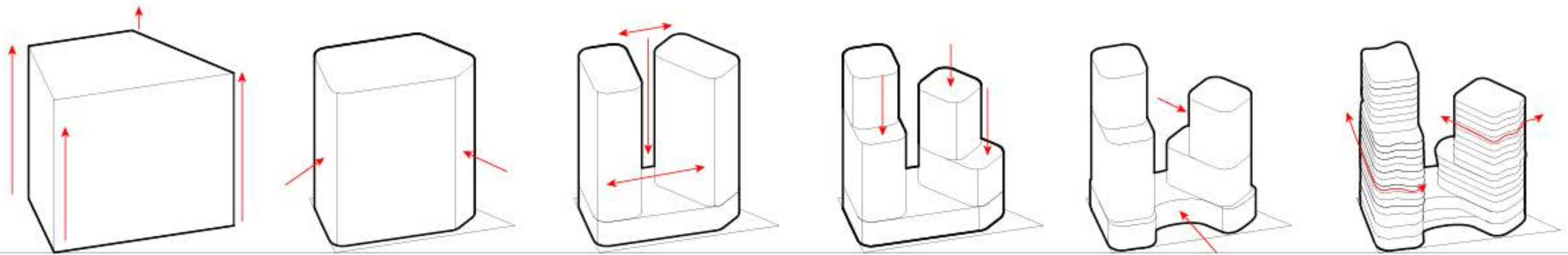
The project, situated in Jefferson Park, Chicago, encompasses a total of 330,438 square feet, featuring a three-story public community center and additional residential components. The residential portion is divided into two distinct volumes, comprising eighteen stories of senior housing and market housing respectively.

The community floors offer a range of amenities, including a coffee shop, grocery store, library, gym, dog park, and recreation area, all accessible to the public. Residents enjoy exclusive access to private activity spaces located on the 8th and 14th floors of their respective towers, in addition to the shared amenities on the lower floors.

The design prioritizes efficiency to enhance the quality of life for all inhabitants.

This project was a collaborative effort with team members Xuru Lang, JinChen Cheng, and German Magos.

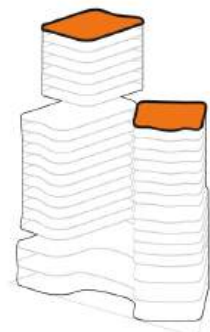




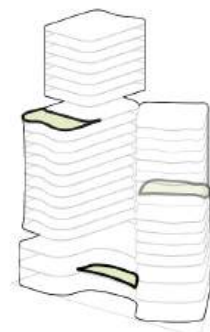
CLOSED LOUVER SHADES



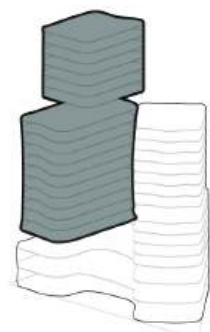
OPEN LOUVER SHADES



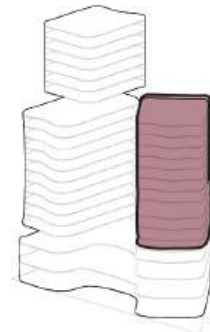
SOLAR PANEL



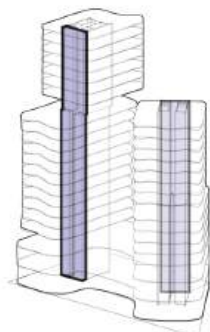
WALKOUT GREEN PUBLIC SPACE



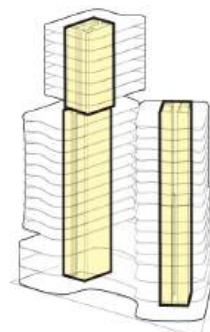
SENIOR HOUSING



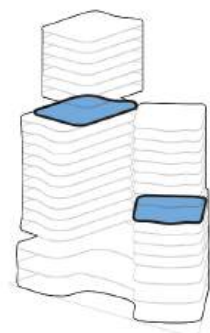
MARKET HOUSING



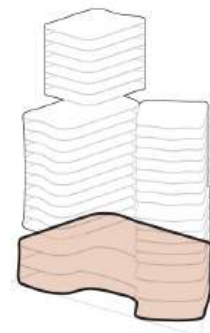
MECHANICAL ROOM



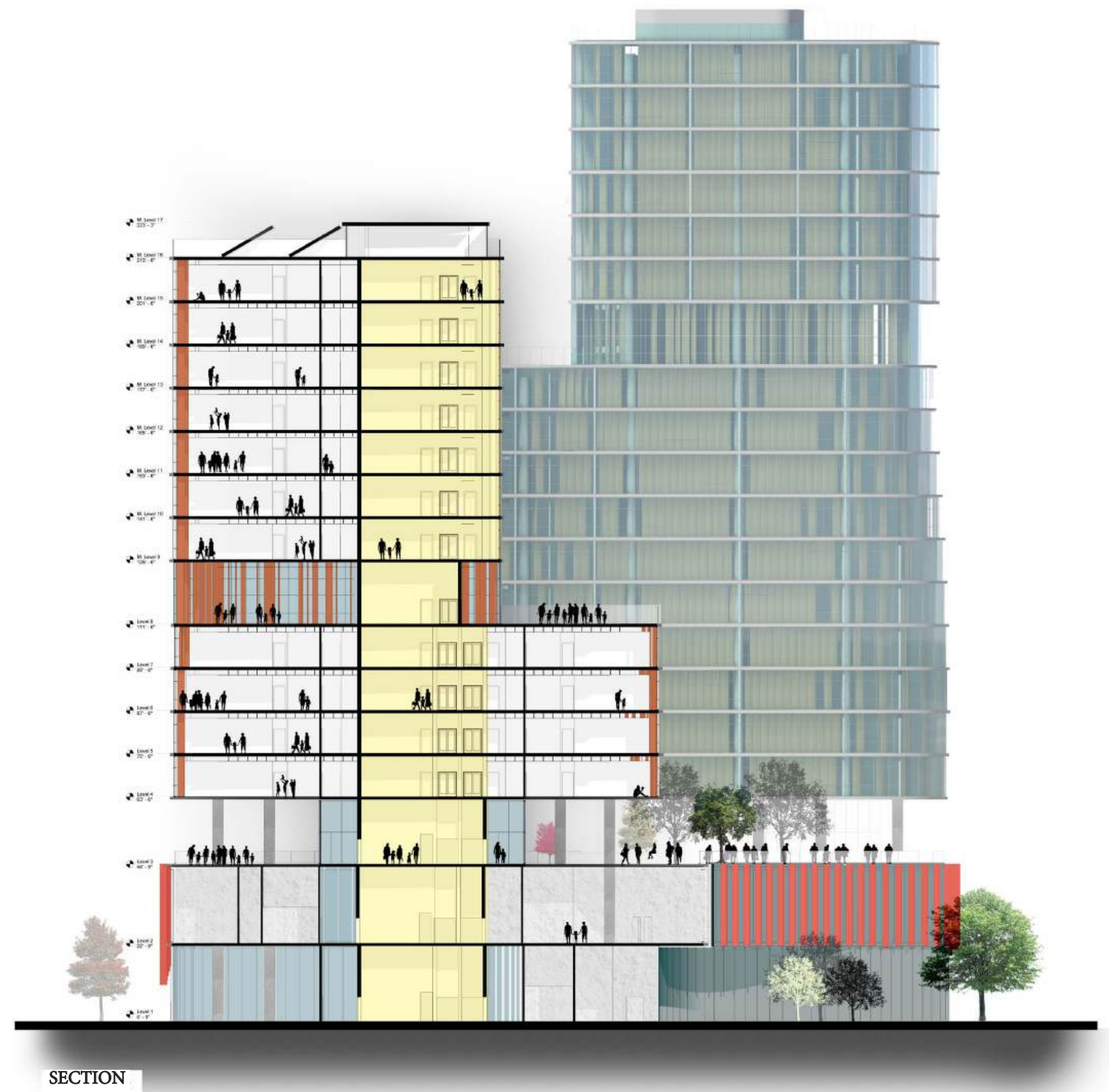
ELEVATOR



LAUNDRY



COMMUNITY CENTER





LIVING ROOM



BEDROOM



LOBBY



COMMUNITY AREA



EXCELLENSEA, MUMBAI

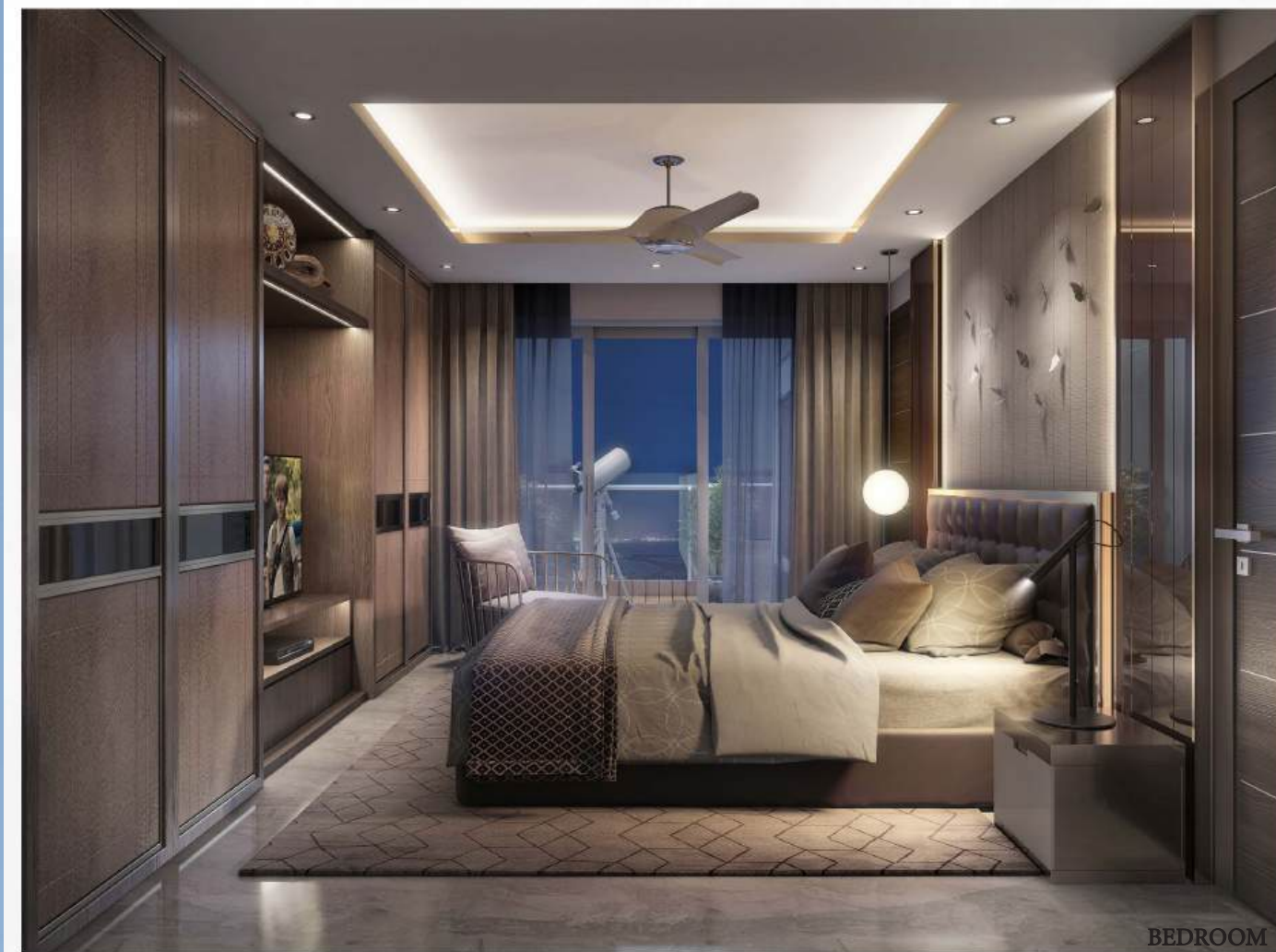
MIXED USED HIGH RISE

A mixed-use commercial and residential building, situated on Charni Road adjacent to the coastline, offers affordable living in Mumbai's prime location. Throughout my internship and subsequent role as a Junior Architect, I played a pivotal role in this project. Initially, I assisted in coordinating with the model maker and creating sales plans under the guidance of my senior colleague.

As I progressed, I assumed greater responsibility, overseeing the project independently. This involved liaising with clients, reviewing detailed drawings, conducting site visits, and ensuring seamless coordination with all consultants involved.

Notably, each floor boasts a unique layout, with the crowning feature being an Infinity pool on the top floor, offering unparalleled views of the sea. Collaborating closely with my team, including Mihir Kulkarni (Associate) and Pawan Kumar (3D Renderer), we delivered exceptional results for our client, Sanghvi Parmssva. This project has been a tremendous learning experience for me, enriching my skills and knowledge in architecture and project management.





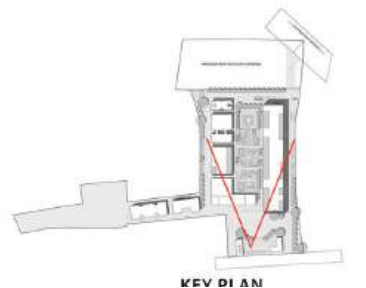
PHRC, PUNE

HOSPITAL BUILDING

The Poona Hospital and Research Centre is a project of international stature, a 600-bed hospital designed by MQA. Initially, my role involved researching and studying the requirements a hospital, understanding the brief, and analyzing case studies from hospitals worldwide. Upon finalizing the brief, I transitioned to planning, providing room sizes based on my research and related areas. Concurrently, I contributed to conceptualizing and designing the project, collaborating closely with the planning team. Subsequently, I focused on refining the interiors' aesthetics and ambiance, followed by ensuring the overall look and feel of the structure harmonized seamlessly.

The project progressed swiftly due to its competitive nature. As a team, we dedicated ourselves tirelessly to meet the tight deadlines.

Our team comprised Qutub Mondviwala (Principal Architect), Nandita Agnihotri (Associate), Feroz Khan (3D Renderer), and Architectural designers Karsh Shah, Basil Parihar, Praneet Pandya, and Dwiti Boga.





AERIAL VIEW



LIBRARY



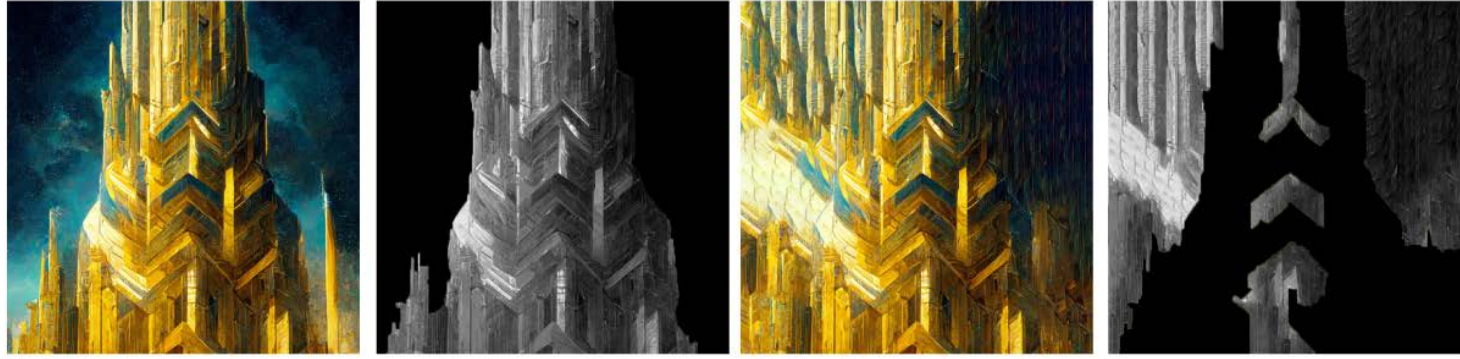
GENERAL WARD ROOM



OUTPATIENT CHECK UP

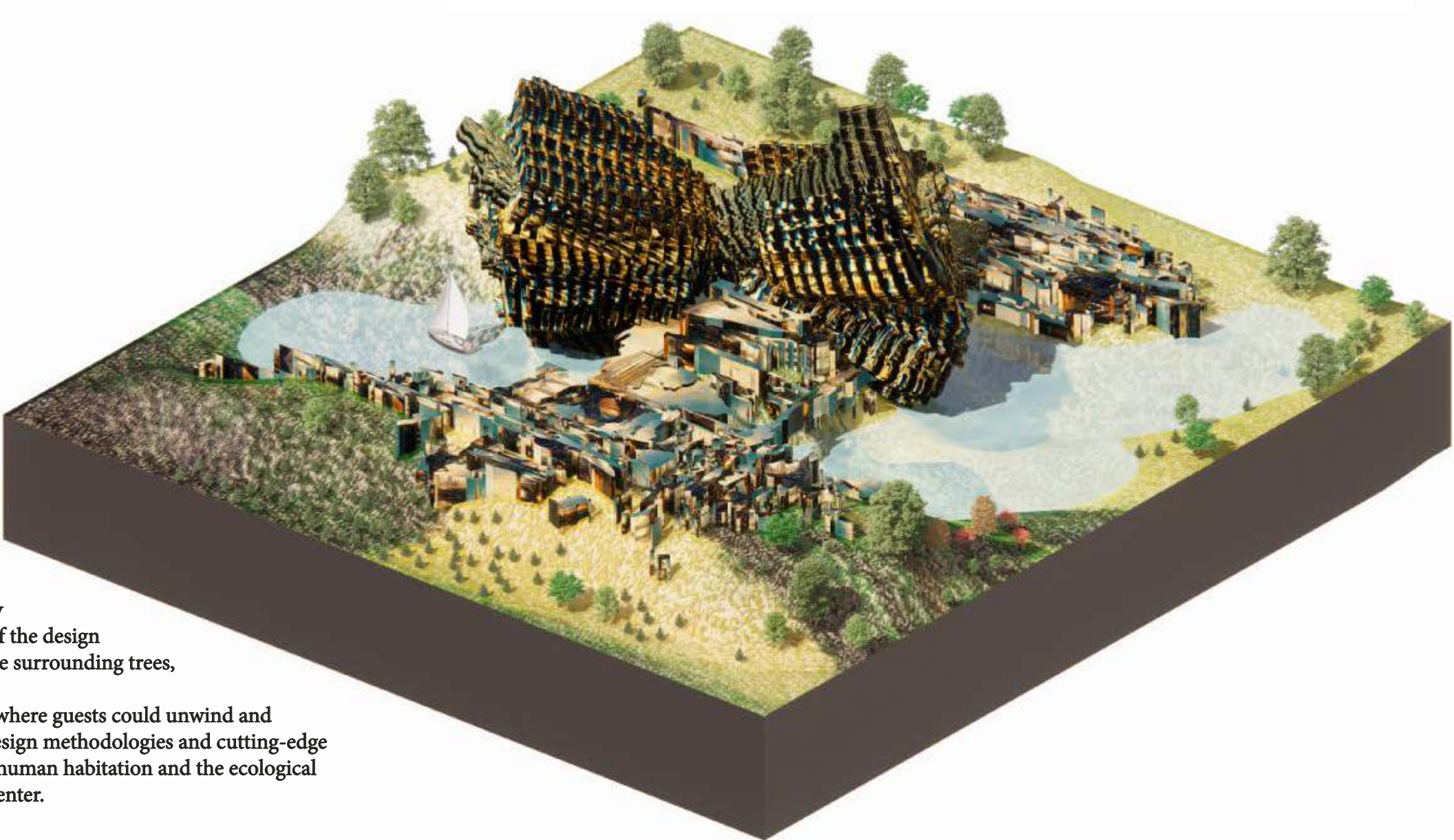


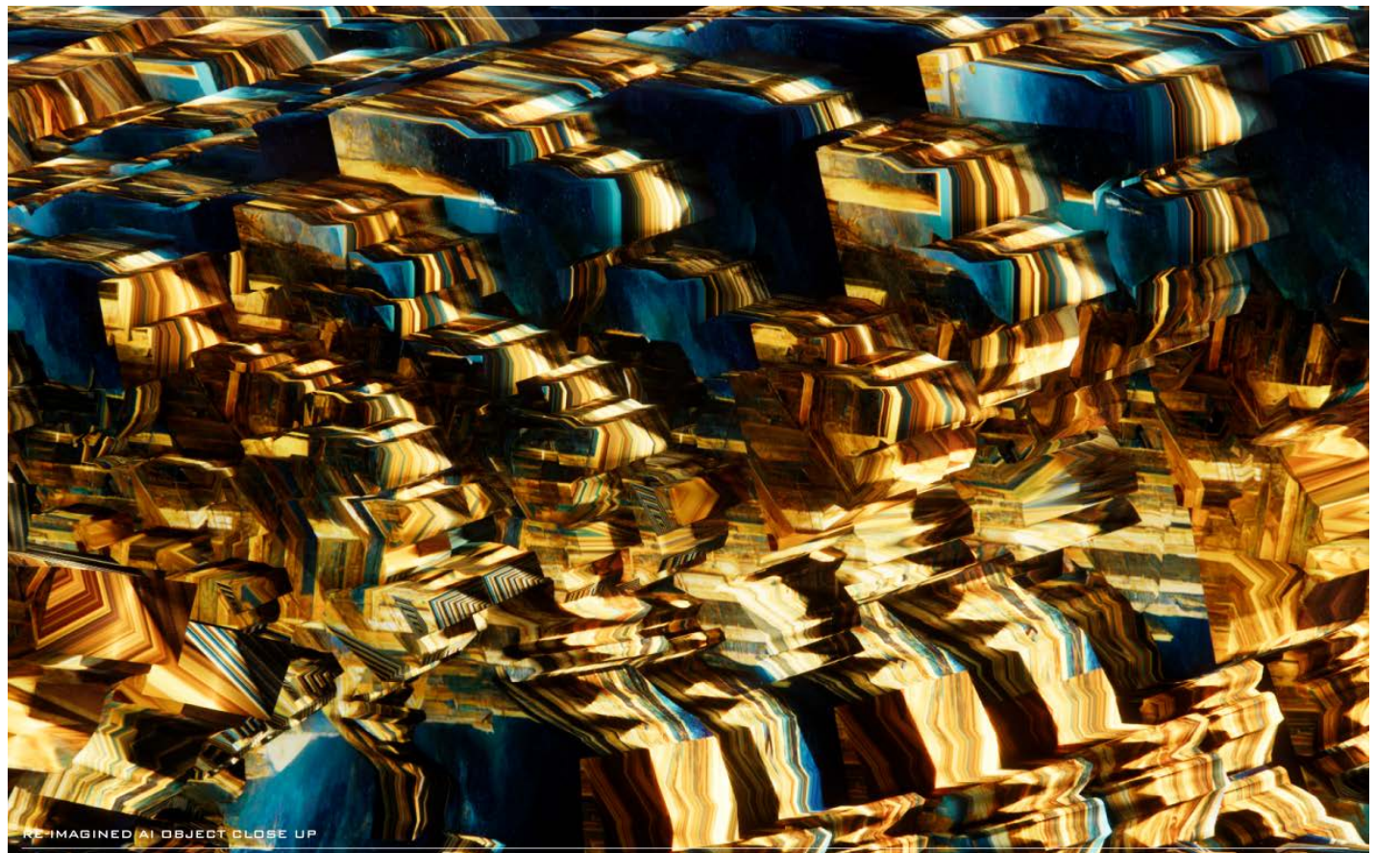
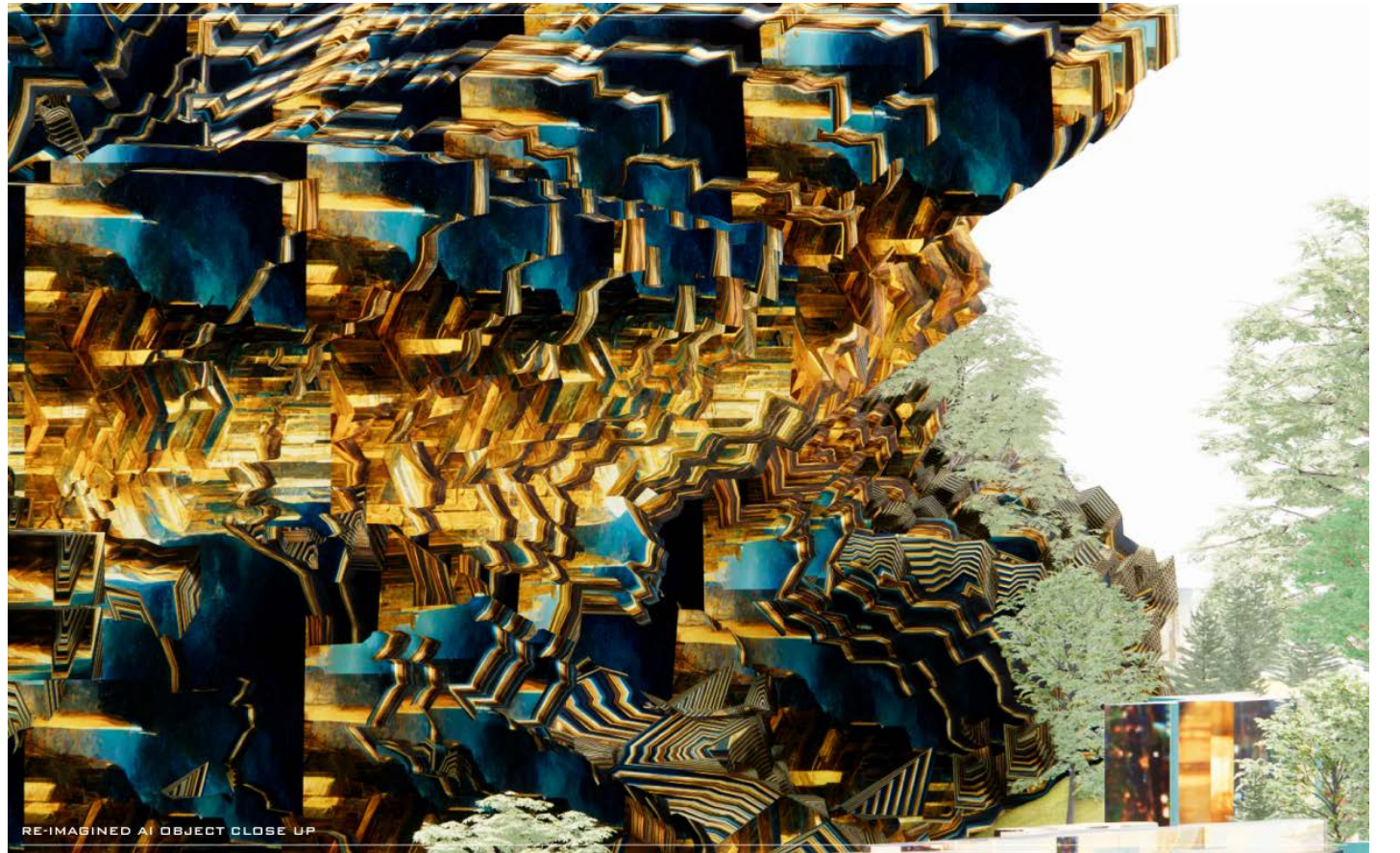
OPERATION THEATER



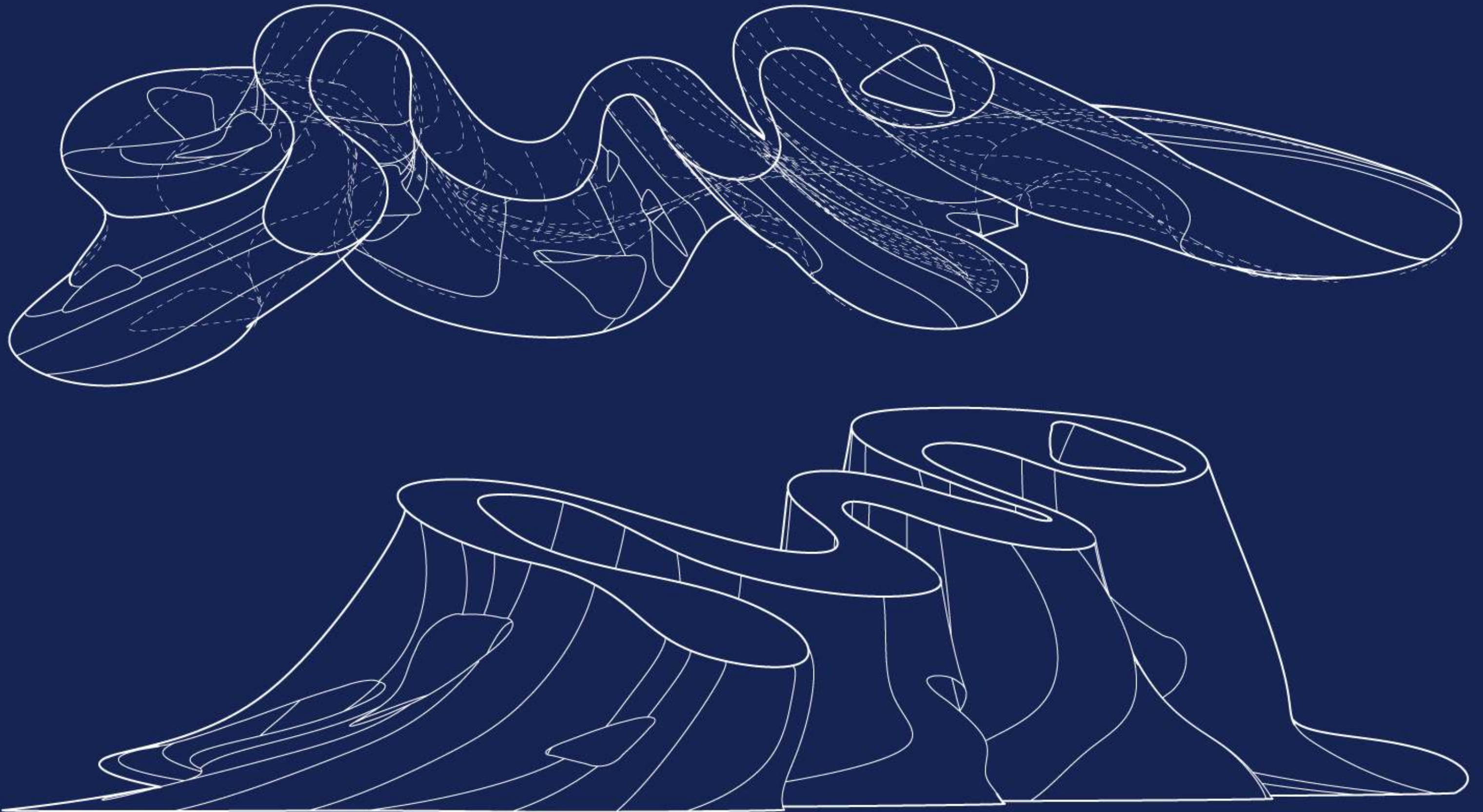
AI TO ARCHITECTURE

During my initial semester at IIT, I embarked on a project that served as an introduction to Rhino, Grasshopper, and the integration of AI-generated images from Midjourney. This endeavor revolved around conceptualizing a retreat center nestled within a verdant landscape, providing a sanctuary for individuals seeking respite amidst nature's embrace. The focal point of the design was a distinctive, towering structure intended to seamlessly meld with the surrounding trees, fostering a sense of unity with the environment. The overarching aim of the project was to cultivate a serene atmosphere where guests could unwind and reconnect with the natural world. Through the utilization of advanced design methodologies and cutting-edge technology, the endeavor sought to forge a profound symbiosis between human habitation and the ecological milieu, thereby enhancing the overall experiential quality of the retreat center.



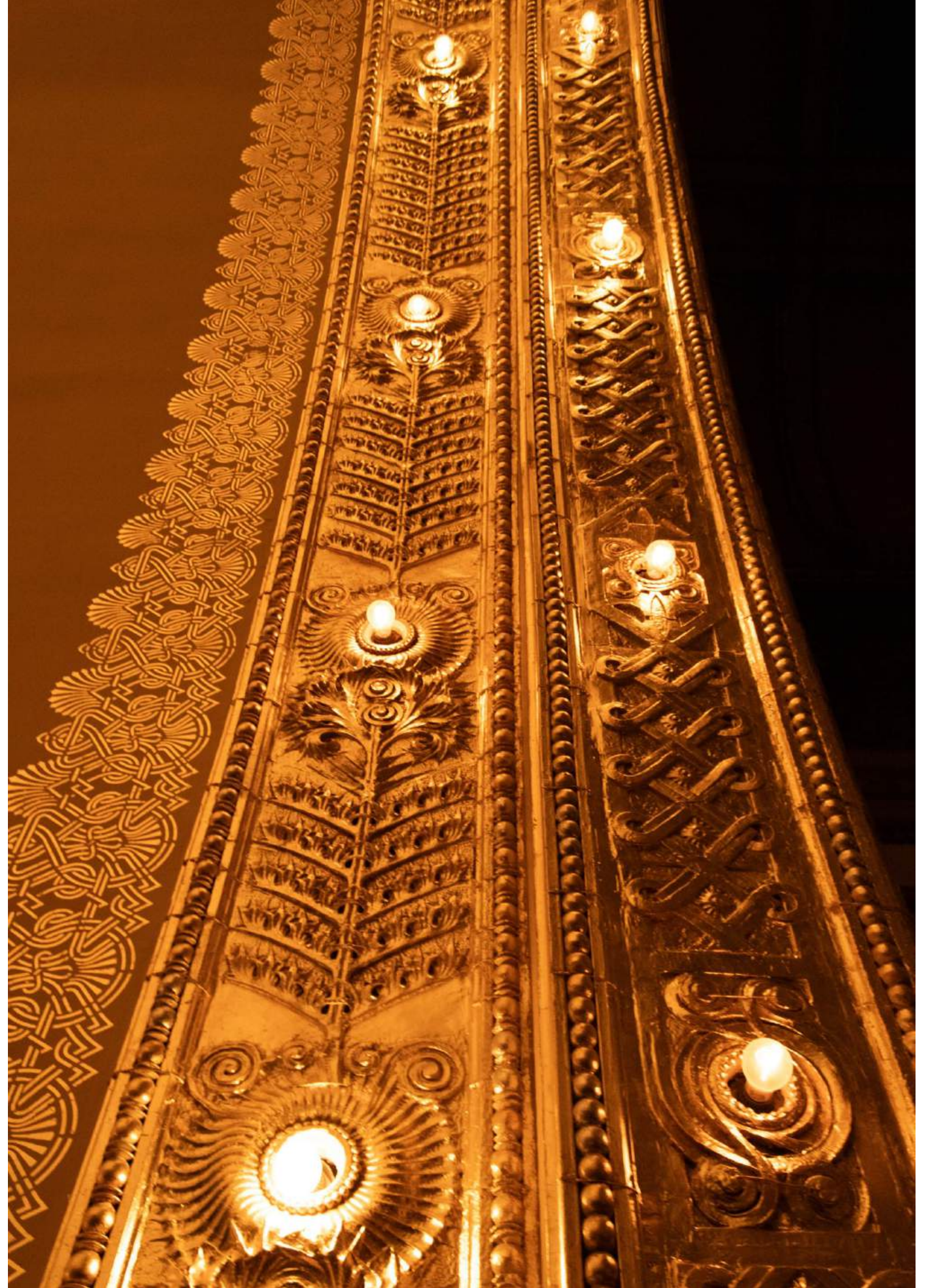


In a visionary leap blending ancient heritage and contemporary design, architects drew inspiration from nature's magnificence, reimagining iconic structures like Sanaa's Grace Farms and Norman Foster's Commerzbank Tower in the shape of a cave, a tribute to the ancestral homes of Homo sapiens. Grace Farms, renowned for its fluidity and organic aesthetics, metamorphosed into a cavernous retreat. Its sinuous curves mimicked the natural contours of a mountain cave, seamlessly integrating with the landscape while offering modern comforts within. Conversely, the Commerzbank Tower, known for its towering presence, underwent a transformative redesign. Its sleek façade now bore the rugged textures of a rocky cliff, symbolizing humanity's ascent from primal dwellings to architectural eminence. Amidst this evolution, a narrative unfurled—a tale of a community seeking harmony with nature. Here, Homo sapiens embraced their ancestral roots, forging a dwelling that honored tradition yet embraced innovation. Using advanced software like Rhino, architects sculpted a living space that blurred boundaries between indoors and outdoors, merging technology with primal instincts.











Thank you