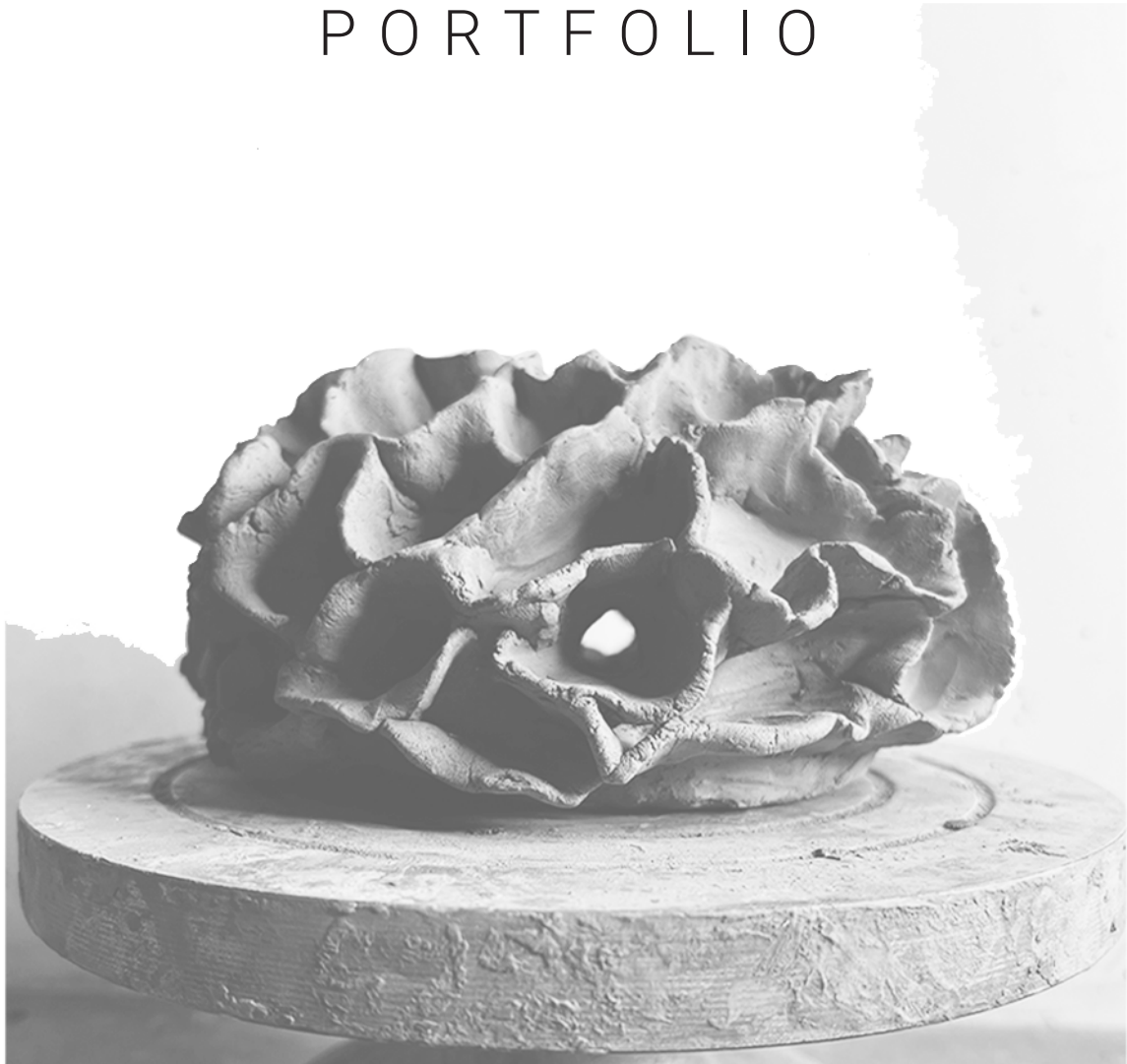


PORTFOLIO



PRARTHANA JATHAR

Selected Works from 2017-2024

Master of Science, Advanced Architectural Design - Cornell University

PRARTHANA JATHAR

ARCHITECTURAL DESIGNER | LEED GREEN ASSOCIATE

Los Angeles, CA (willing to relocate) | 929 922 0216 | pj258@cornell.edu



CLICK FOR PORTFOLIO

PROFILE

An architectural designer with 2 years of professional experience across healthcare, commercial, hospitality, residential, sports and government projects. Proficient in all phases of architectural design—from concept development to construction documentation—with expertise in a wide range of design and visualization software. Skilled at understanding building codes, coordinating multidisciplinary teams, solving complex design challenges, and delivering high-quality, detail-oriented solutions. Currently seeking to deepen my industry experience, with the goal of achieving architectural licensure and LEED AP certification.

AFFILIATION

American Institute of Architecture Member
Indian Institute of Architecture Member
Registered Architect with Council Of Architecture, India
LEED Green Associate, USGBC & GBCI

SKILLS

Technical Drawing + Modelling

Revit | Rhino | AutoCAD | SketchUp | Grasshopper | ArchiCAD | QGIS

Visualization

Adobe Suite (Photoshop, Illustrator, InDesign) | Twinmotion | Enscape | V-Ray | A.I.

Technical

Digital Fabrication (3D Printing, CNC, Laser Cutting) | M.S. Office | Graphic Design | Photography | Sketching | Origami | Ceramic

RECOGNITION

First place – Housing Redevelopment for Bank of India Employees

First place – Visitor's Centre hosted by the Indian Institute of Architects

Participated – Urban Design Competition "Z-Axis" by Charles Correa Foundation

Team Member – Exhibition promoted by Brazilian non-profit FICA, station+(ETH Zurich) and Desis Lab by Prof. Anna Dietzsch

Certified – Japanese Architecture and Structural Design at Tokyo Institute of Technology (Online)

Presented - Documentation of Varanasi at Asian Contest of Architectural Rookie Award

EDUCATION

Cornell University | Ithaca, NY

Master of Science in Advanced Architecture Design

Engineering Architecture for Climates Uncertainties
Artificial Intelligence, Spatial Dynamics and Computation

2023-2024

GPA: 3.85/ 4.0

Pune University | India

Bachelor of Architecture

Architecture Design Thesis and Research Development
Advanced Building Technology and Materials

2017-2022

GPA: 3.70/ 4.0

EXPERIENCE

Architectural Designer and Job Captain

Present

Harry Designs, LLC. | Los Angeles, CA

- Assisted principal architect to design and draft construction drawing sets for three residential and multiple commercial projects concurrently using Revit and AutoCAD
- Oversaw the city approval process across three municipalities, ensuring compliance with building codes and addressing corrections promptly
- Prepared high-quality interior and exterior renderings and assembled presentation packages for weekly client and coordination meetings
- Documented project progress by drafting meeting minutes, managing budgets, logging issues, and overseeing fieldwork orders and follow-ups

Student Research Lab Assistant

2023-2024

Cornell University Environmental Systems

- Utilized QGIS to classify 8,000+ buildings and Urbano for analysis
- Documented housing stock in Revit, achieving 50% energy and cost efficiency
- Co-authored a research paper with Prof. Timur Dogan and Hung Ming Tseng

Junior Architect and Intern

2022-2023

Design Consortium | India

- Actively participated in local healthcare and sports projects during SD phase, making substantial contribution to the plans of exam room/research center/surgery and analysis of patient circulation to meet specific code requirements
- Independently produced exterior and interior design renderings of 2 healthcare, 2 commercial projects and 3 residential projects along with 2 government projects using Enscape, Vray, Rhino, Adobe Illustrator and Photoshop
- Led the design and presentation of a winning visitor center, securing 1st place
- Assisted with construction administration tasks such as reviewed submittals, updated specifications and logged RFIs
- Drafted All-In Rate and BOQ documents for project and site management

Architecture Intern

2021

Parallax Design Studio | India

- Assisted senior architects with developing layouts for local high end residential and hospitality projects ensuring compliance with FAR and applicable codes
- Drafted Construction Documentation for high-rise commercial projects, delivering comprehensive plans, sections, and construction details using Revit and AutoCAD
- Coordinated with various consultants to document construction management by creating and managing RFI, change order request and pre-installation specification requirement logs

PROJECTS

01. DREAMLANDS



Sensory Engagement
Dissertation & Architecture
Artificial Intelligence

02. BY THE BAY



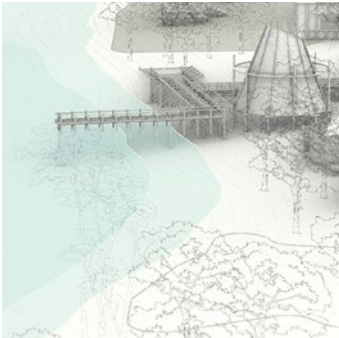
Waterfront Development
Design Thesis
Community Resilience

03. SCHOOL



Educational
Academic
Design and Technology

04. LIVING WITH WATER



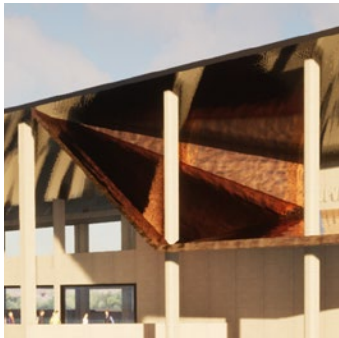
Climate Engineering
Academic
Research and Design

05. UPVAN GYMKHANA [UNDER CONSTRUCTION]

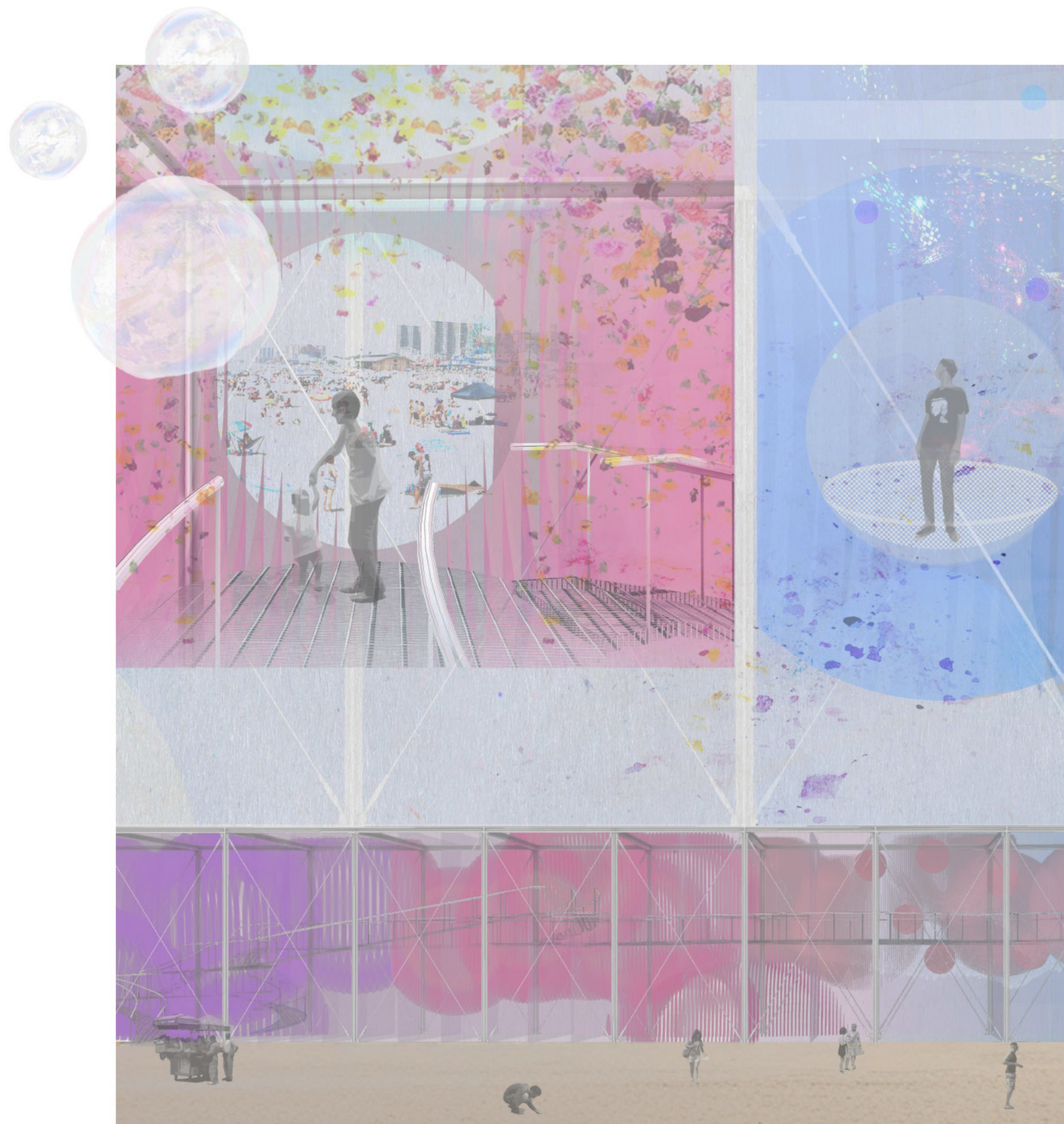


Government Building
Professional Practice
Built Architecture

06. UPVAN GYMKHANA [UNDER CONSTRUCTION]



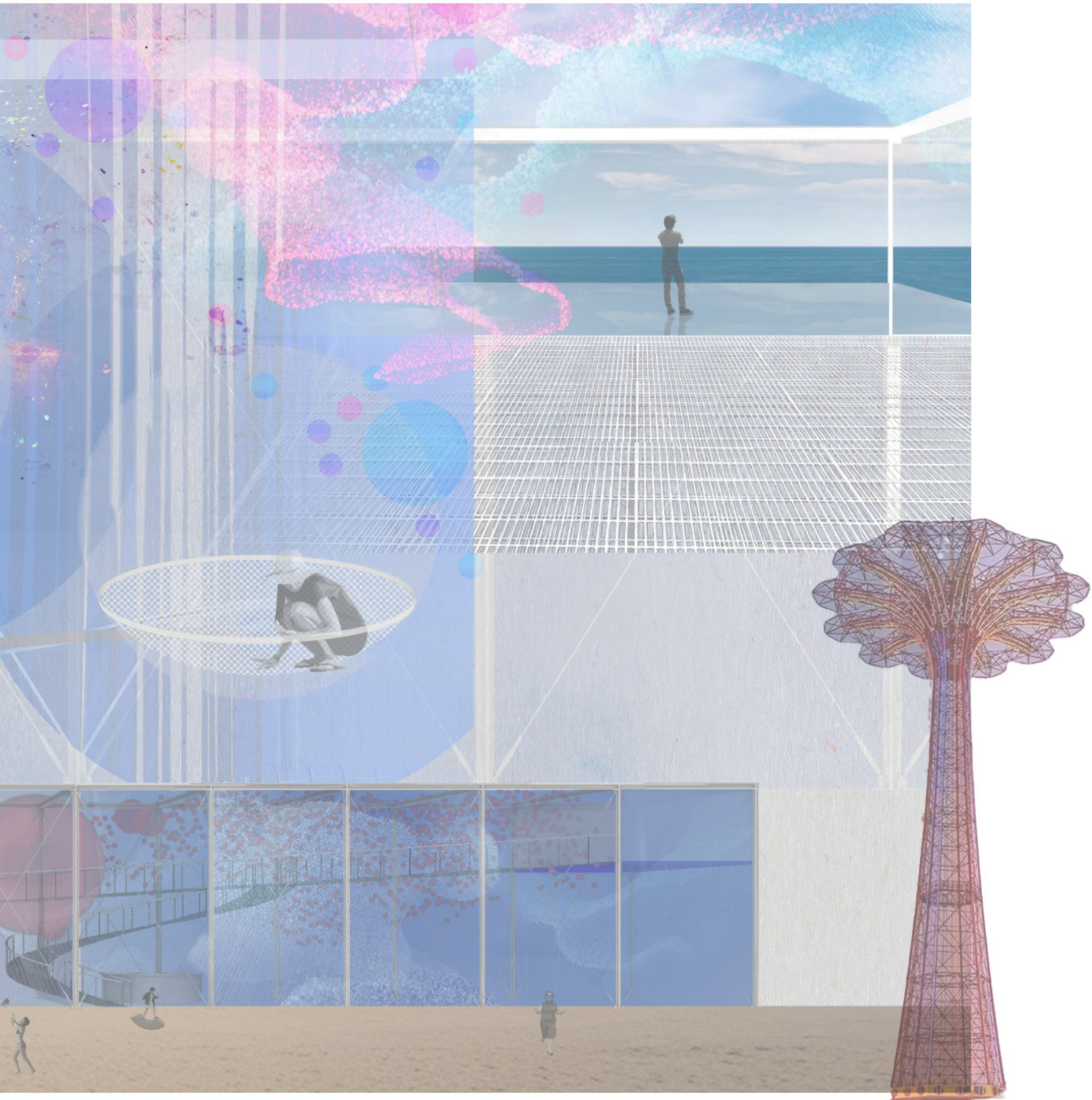
Sports & Hospitality Facility
Professional Practice
Built Architecture



01 DREAMLANDS

Architectural | Academic | Group Design and Research | Spring Semester | 2024

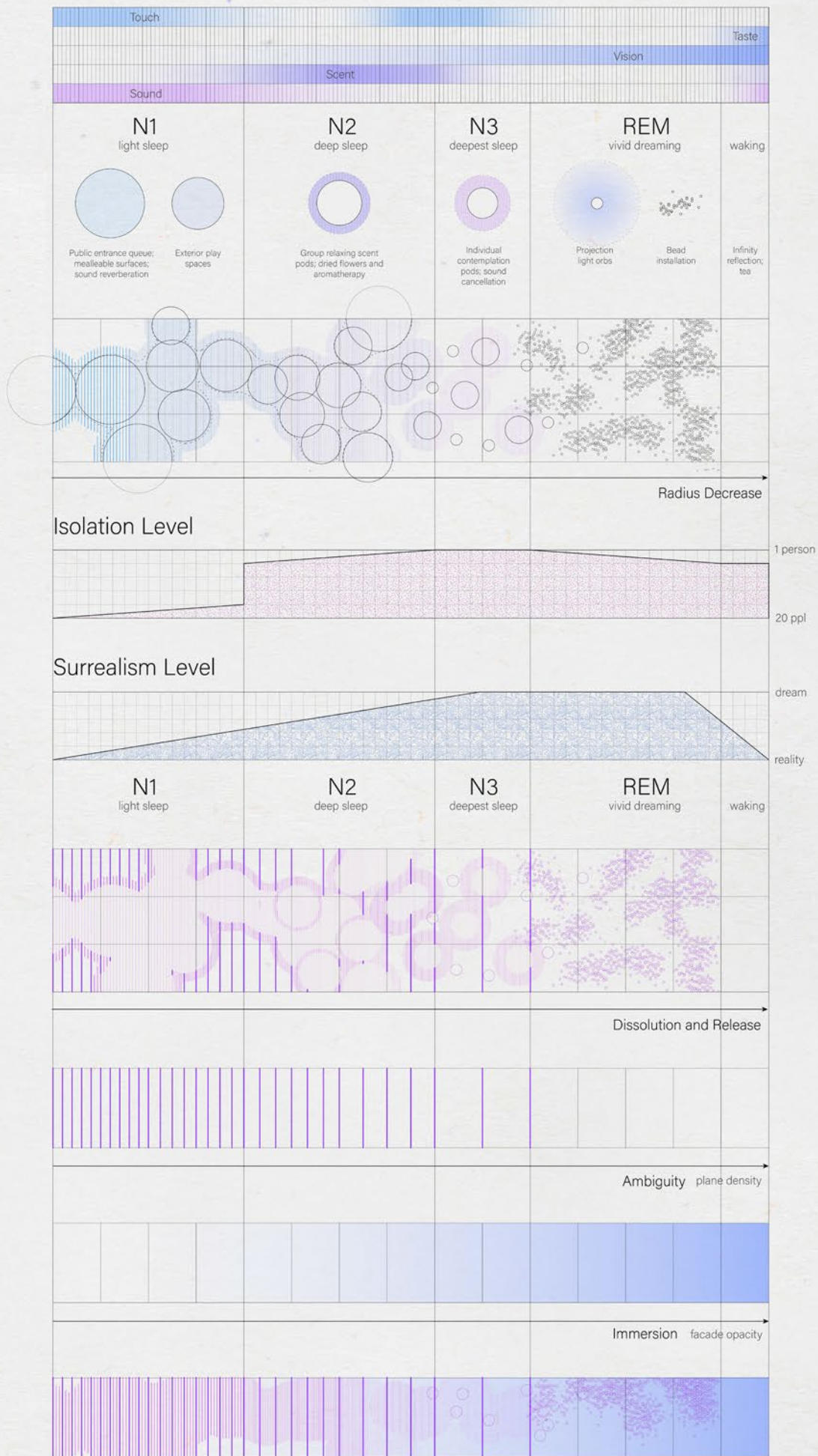
The project started with a detailed exploration of the history of Coney Island, particularly focusing on its three famous amusements: the casino, the amusement park, and the oldest bathhouse. The design process began with experiments in artificial intelligence using Midjourney and Stable Diffusion, which generated numerous images that were then blended and refined. These experiments and research served as starting points for imagining a pavilion that would serve as a space for the casino. The project aimed to create a space where visitors could escape the constant change while evoking various emotions and experiences. The final four weeks of the project were dedicated to envisioning a casino space that would capture the nostalgia of the amusement park, casino, and the oldest bathhouse. The goal of capturing the nostalgia of the amusement park, casino, and the oldest bathhouse.



My Role

Artificial Intelligence
Sensory Engagement Mapping
Program and User Mapping
Design Development
Building Technology

amusement parks. The design
uses images using prompting,
it could serve as a model
of various levels of familiarity and
specific to Coney Island, with



Sensory Engagement Mapping



Immersion



Ambiguity



Dissolution

Spatial Exploration Images generated using AI

N1

light sleep

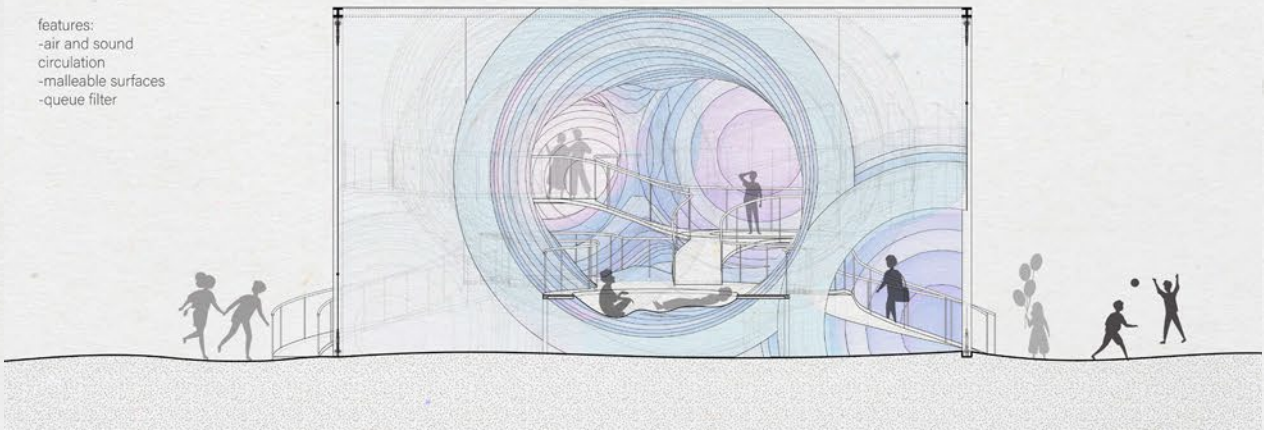
public entrance
touch and play space

features:

- air and sound circulation
- malleable surfaces
- queue filter

10% facade opacity

20% program plane density



N2

deep sleep

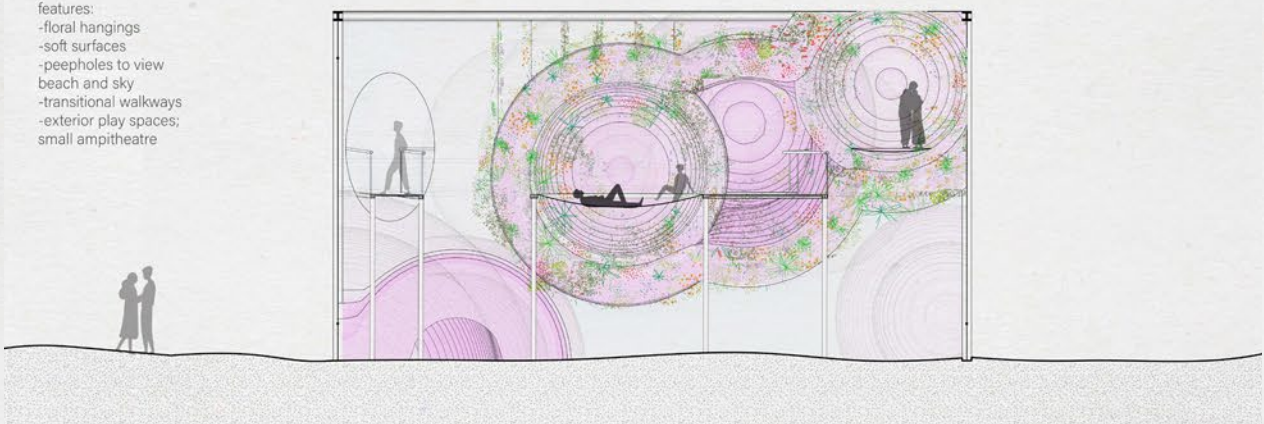
group scent pods
for aromatherapy

features:

- floral hangings
- soft surfaces
- peepholes to view beach and sky
- transitional walkways
- exterior play spaces;
- small amphitheatre

30% facade opacity

50% program plane density



REM

vivid dreaming

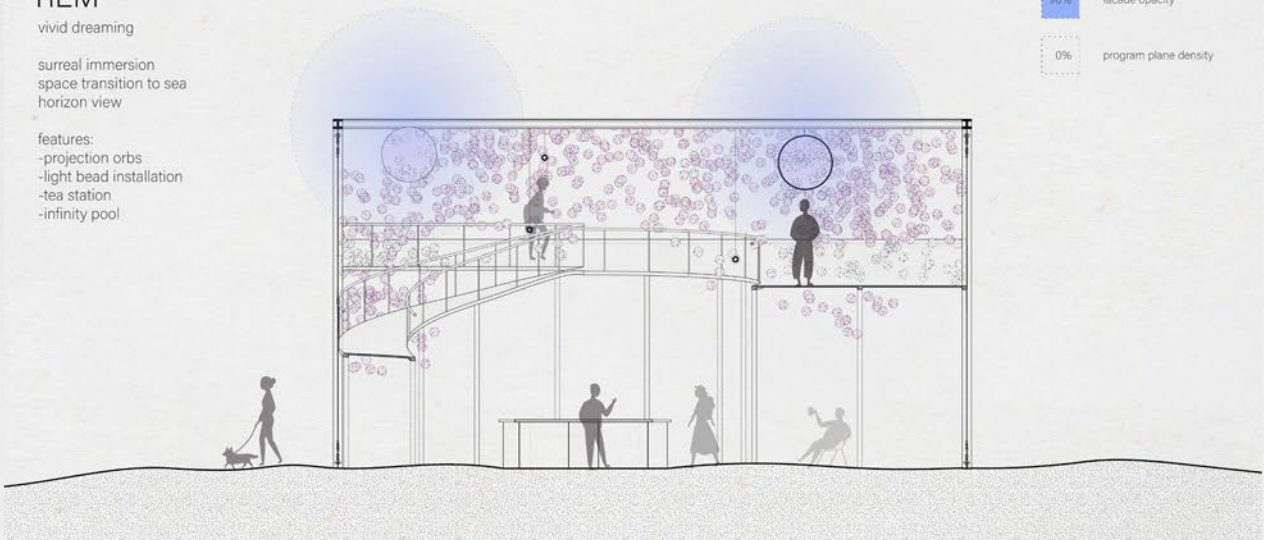
surreal immersion
space transition to sea
horizon view

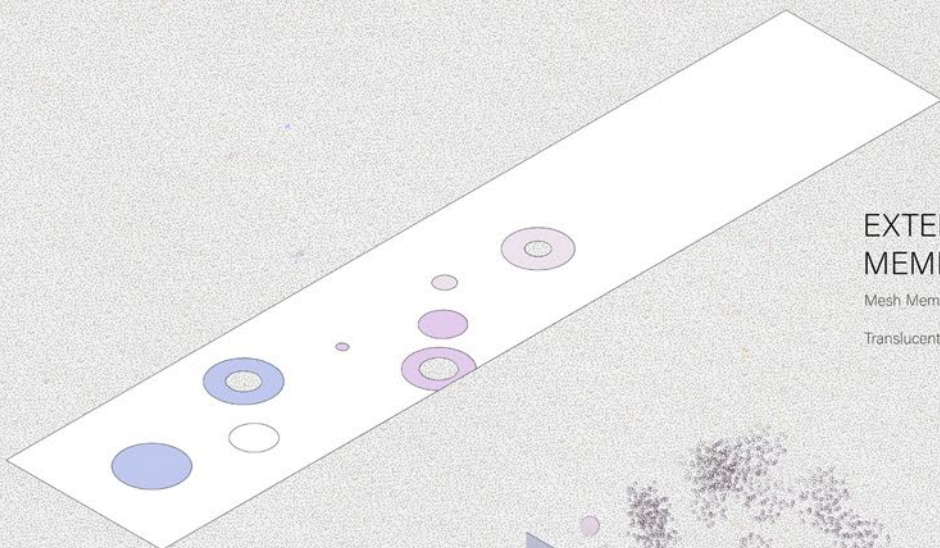
features:

- projection orbs
- light bead installation
- tea station
- infinity pool

90% facade opacity

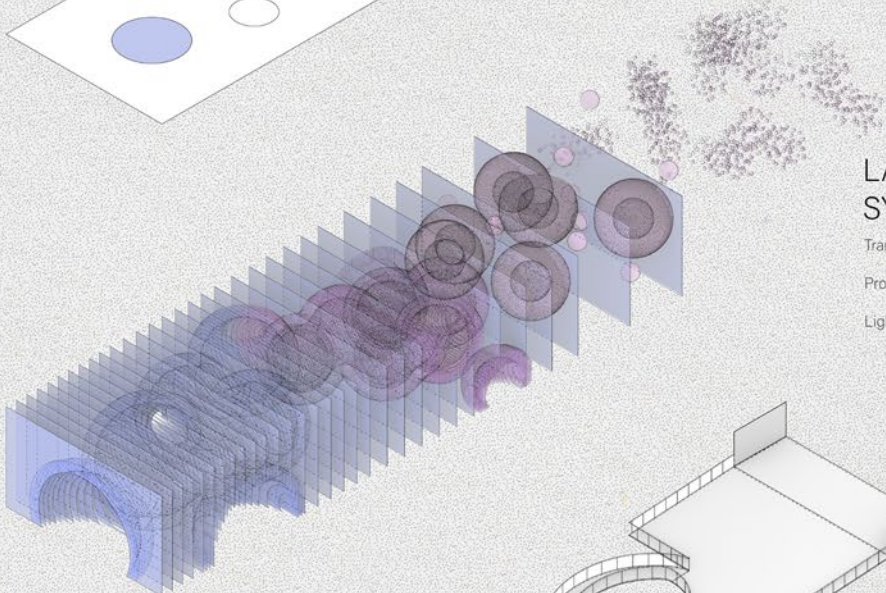
0% program plane density





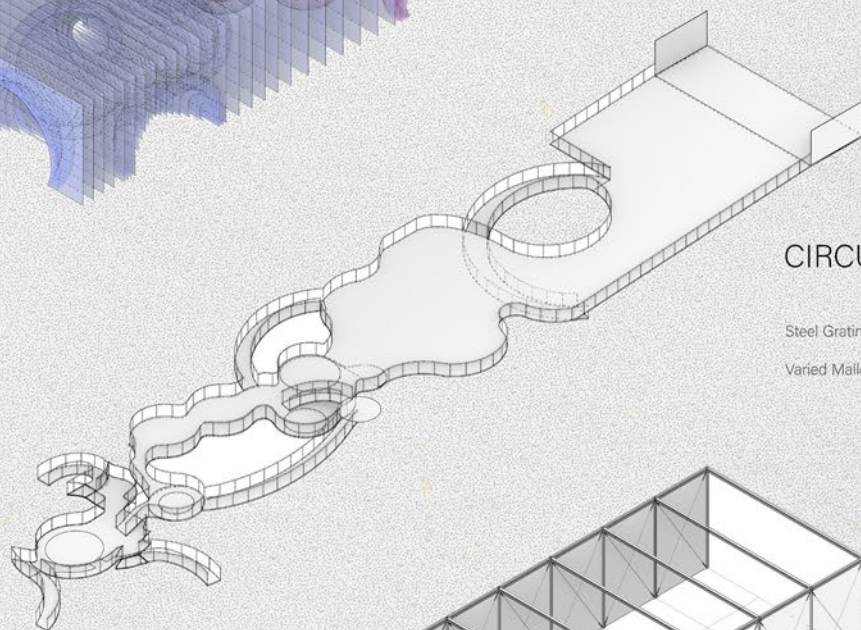
EXTERNAL MEMBRANE

Mesh Membrane
Translucent Openings



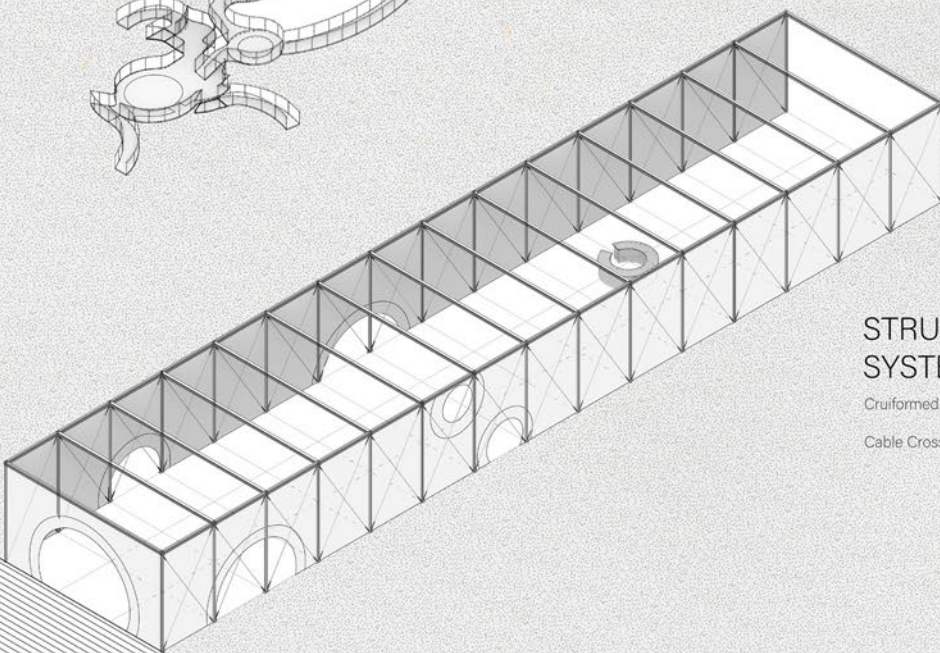
LAYERING SYSTEM

Translucent Fabric
Projection Orbs
Light Bead Installation



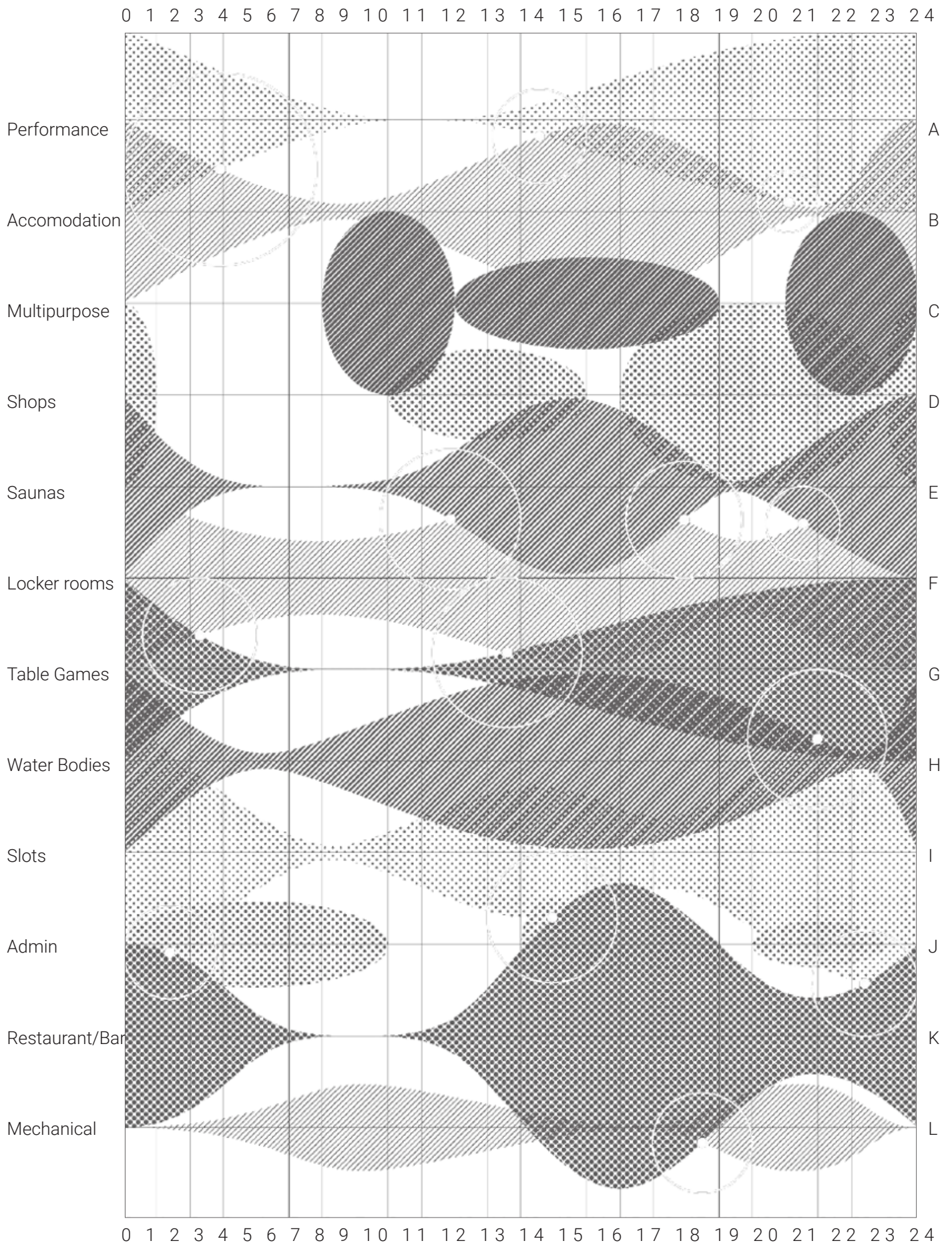
CIRCULATION

Steel Grating Walkways
Varied Malleable Surfaces

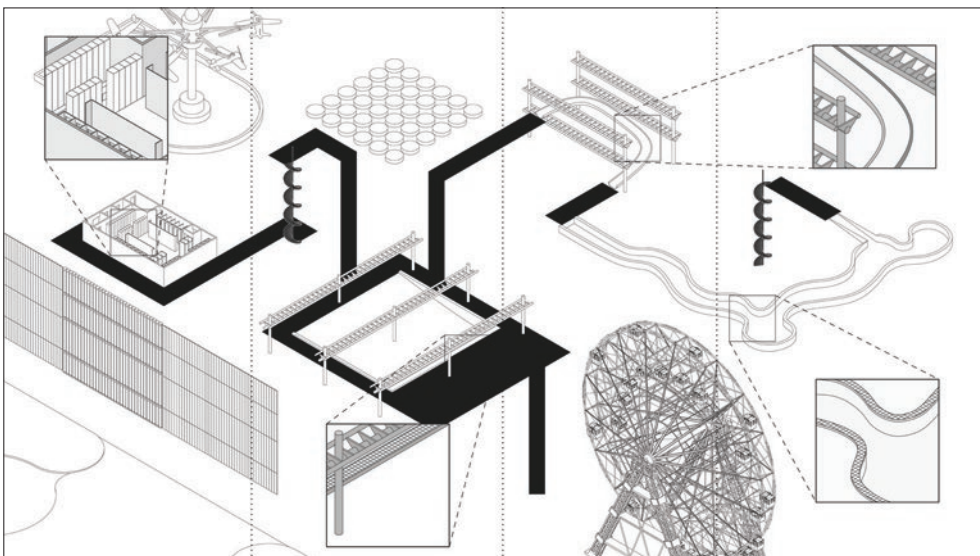
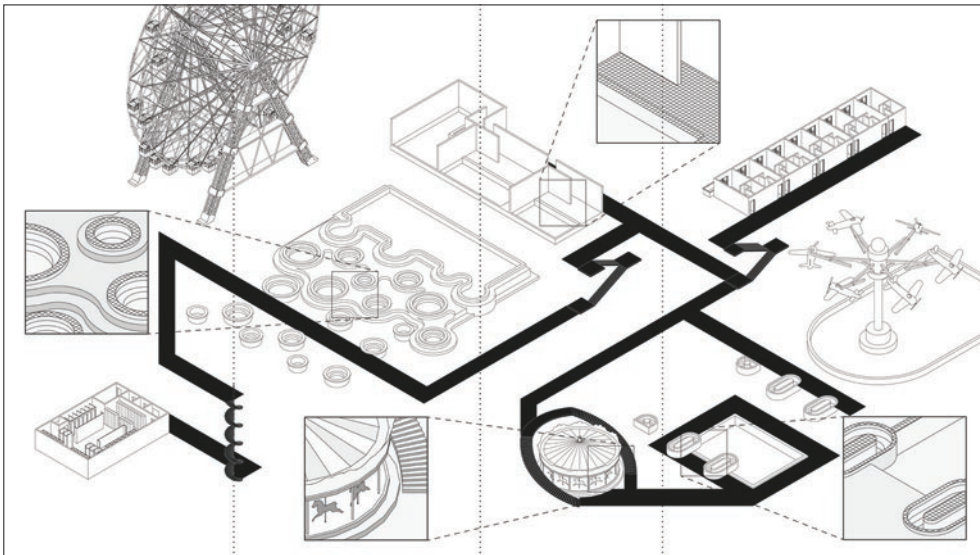
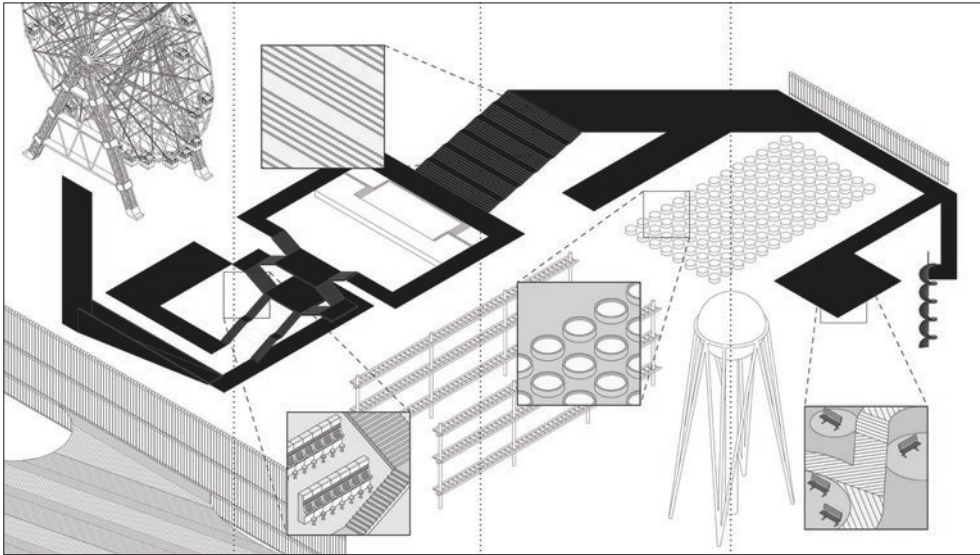


STRUCTURAL SYSTEM

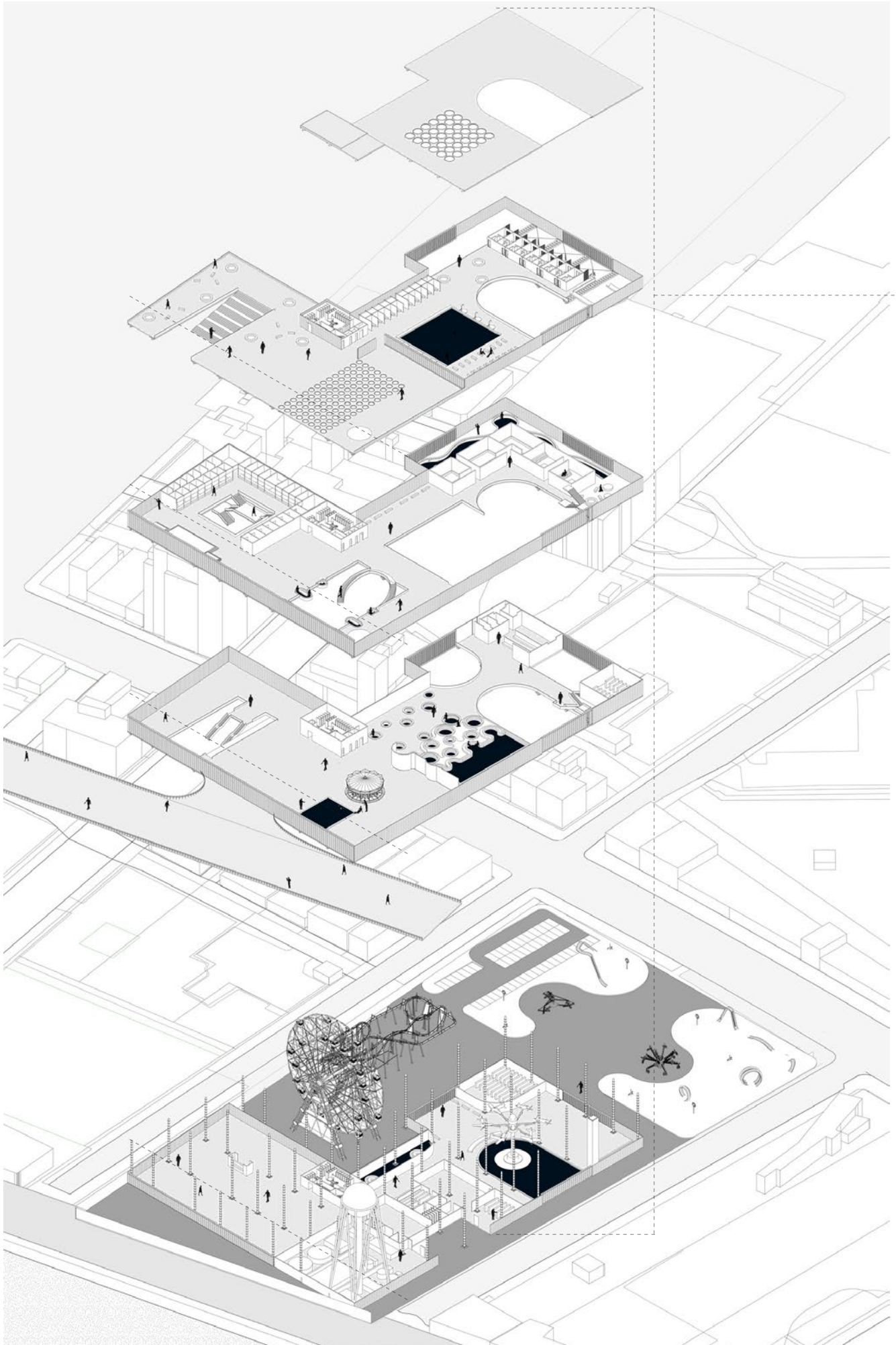
Cruiformed Steel Column
Cable Cross Bracing



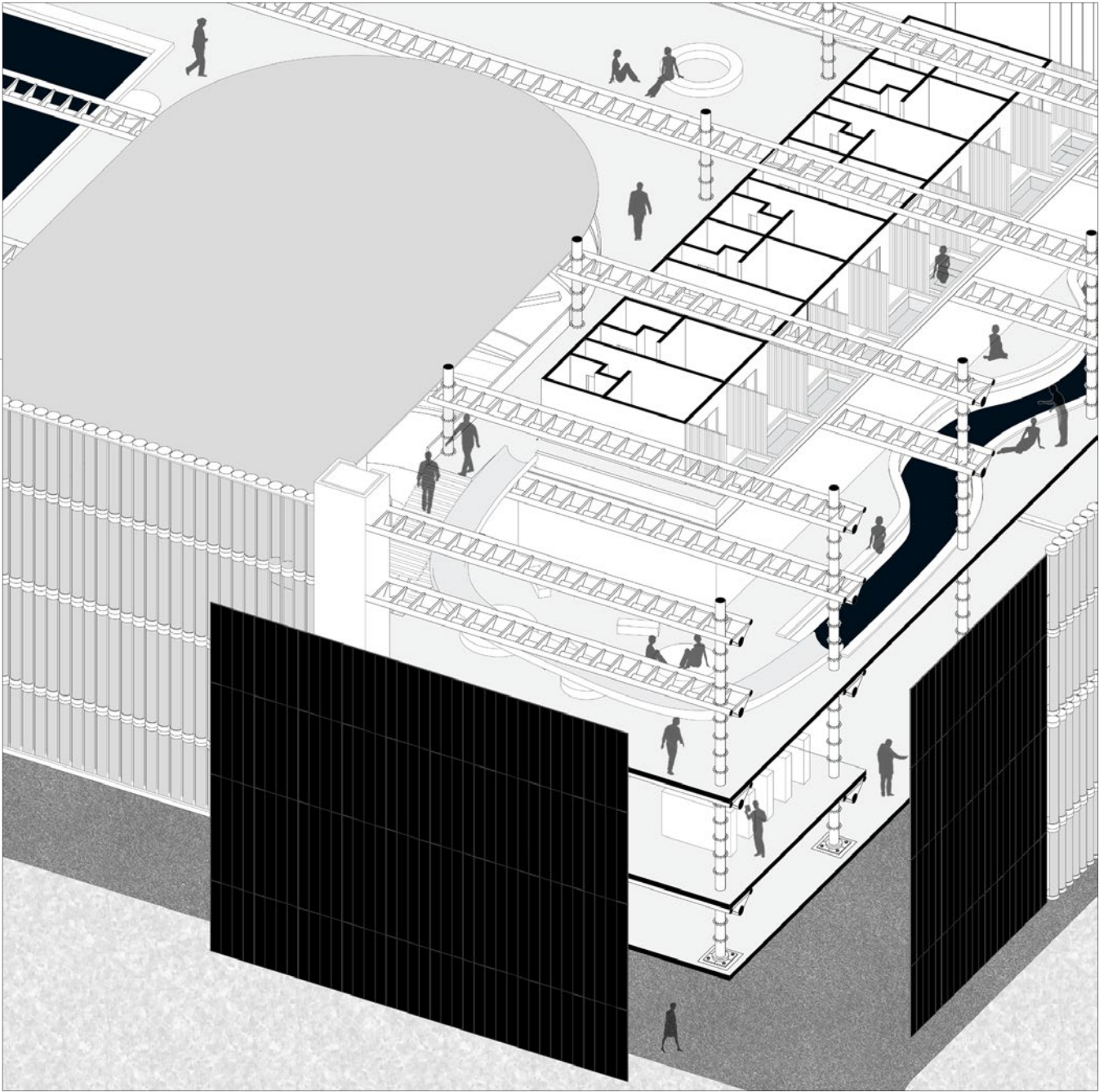
Program Mapping



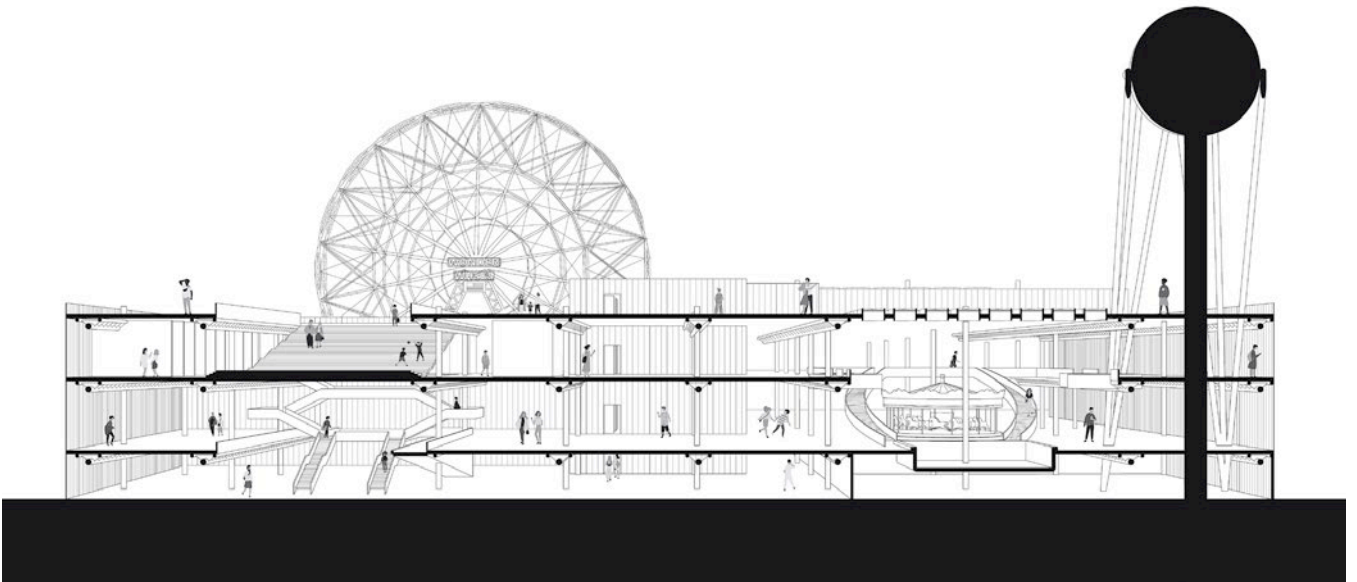
User Mapping



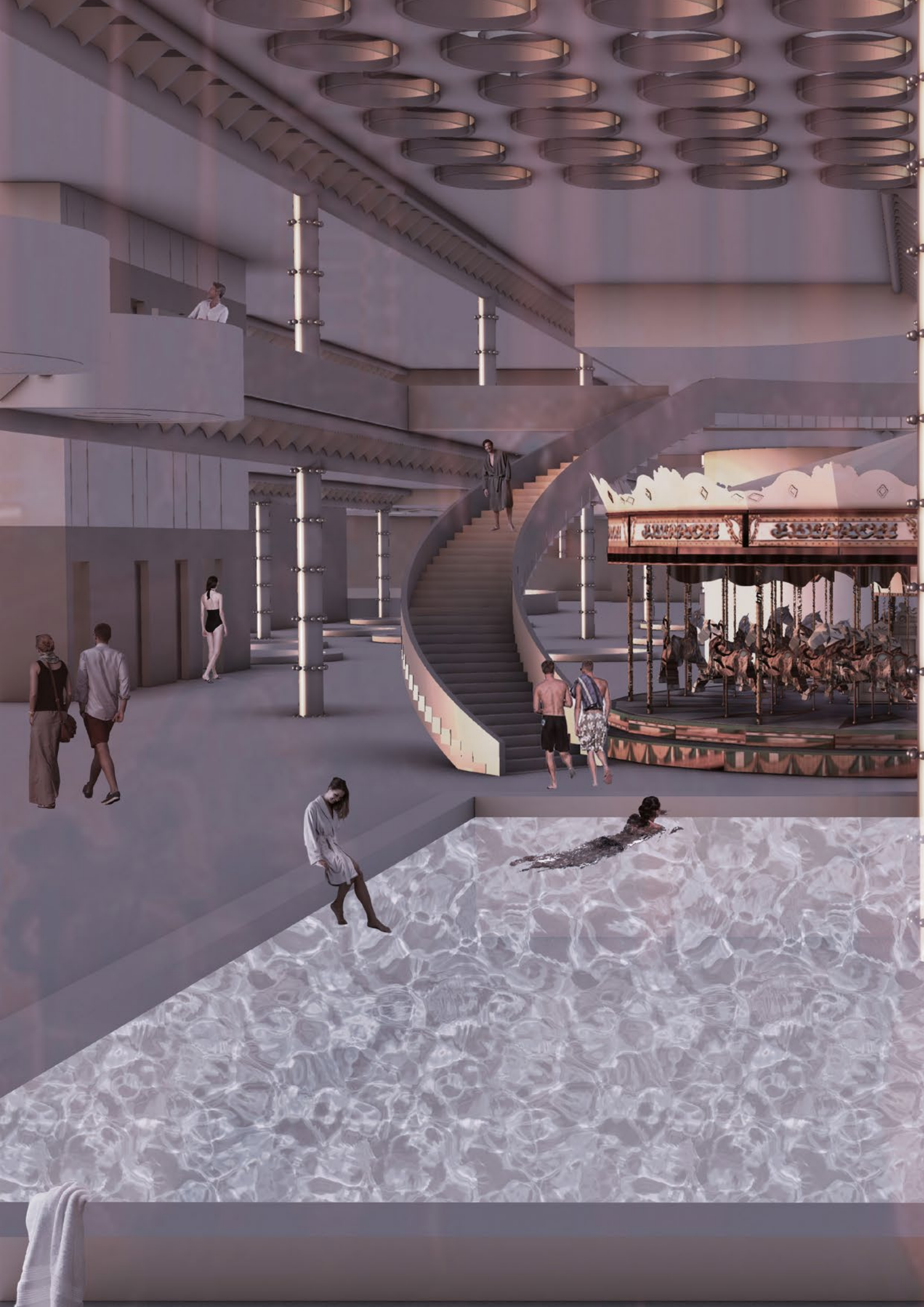
Exploded Axonometric View



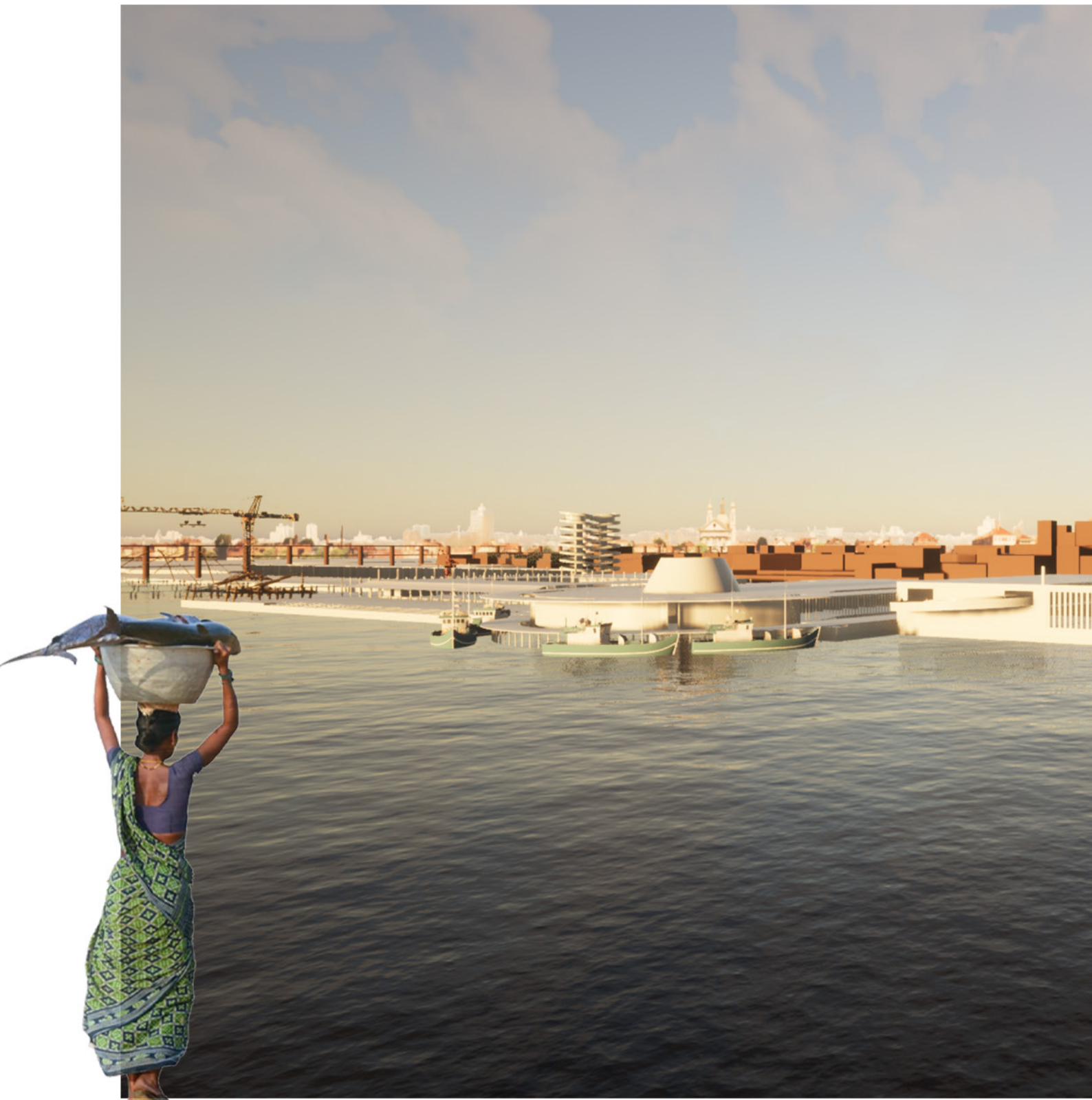
Exploded Structural Skin View



Section through the Atriums







02 BY THE BAY UPLIFTING THE FISHING VILLAGE OF VERSOVA

Design Thesis | Academic | Individual | 2022

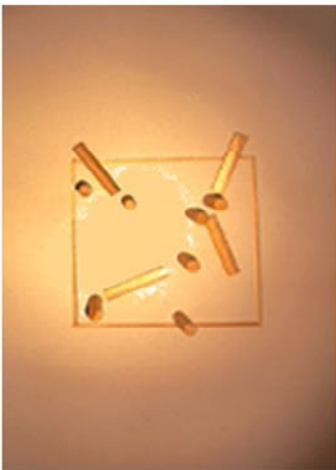
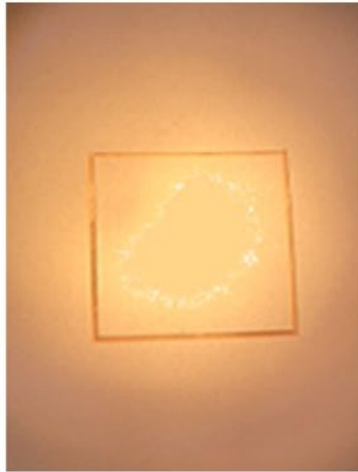
The coastline of Mumbai, which creates a succession of unique and scenic waterfronts, is one of the city's finest assets. These waterfronts have become the city's back yard and have devolved into its largest dumping area. The waterfronts are the most important and scenic assets of Mumbai. The design approach was to operate within the existing reality to solve critical concerns, as well as selective relocations, for the revitalization of these waterfronts. Most importantly, these waterfronts must continue to be the city's and people's pride, as well as lively aspects of the environmental and social fabric. The individuals who live near these waterfronts, as well as their sense of pride and belonging.



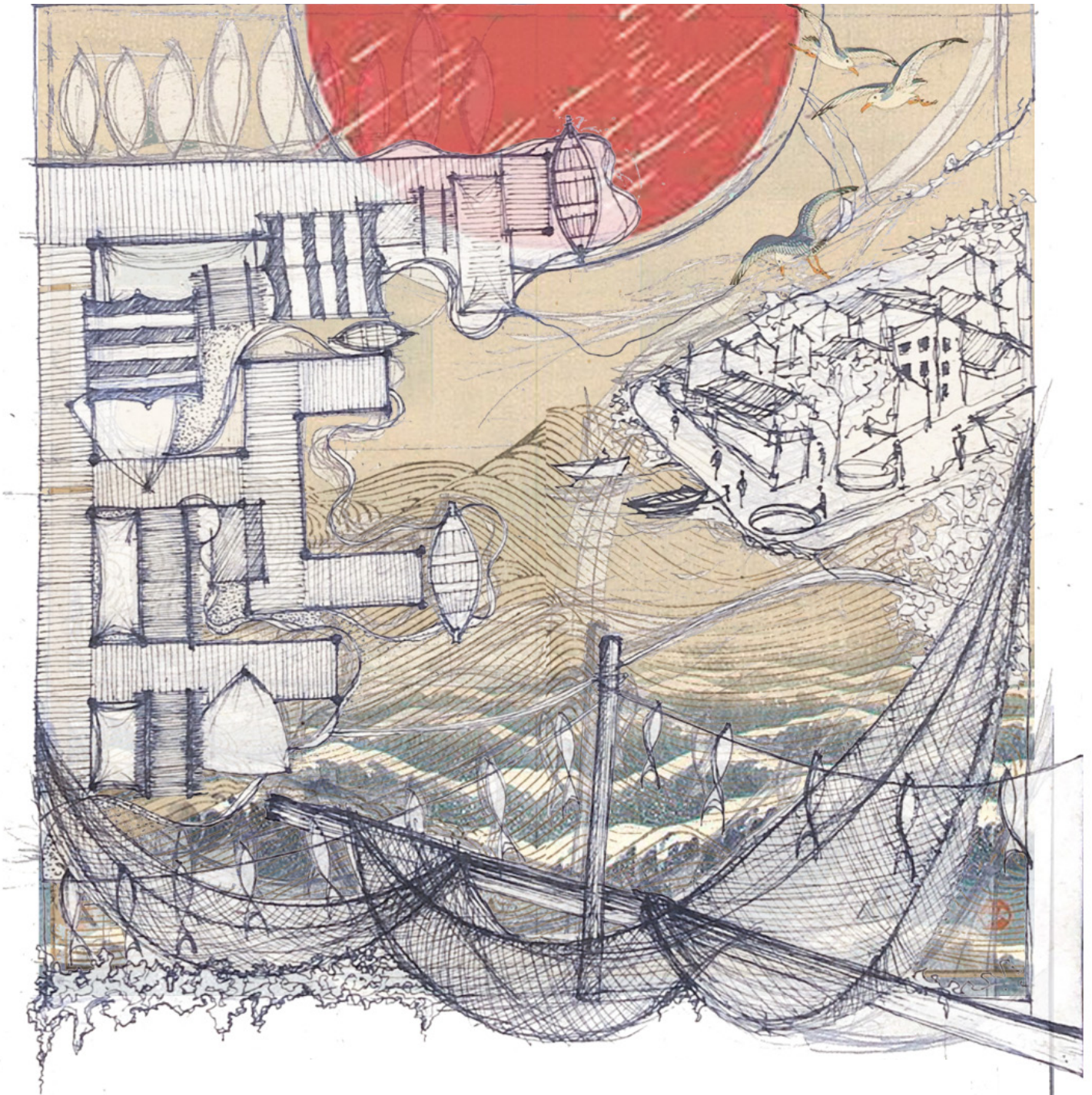
Regrettably, these have
d popular public spaces in
cation of spaces and activ-
ople' communal assets, as
nose who visit them, exude a

My Role

- Sociology
- Research and Site Analysis
- Waterfront Development
- Community Resilience
- Marine Construction

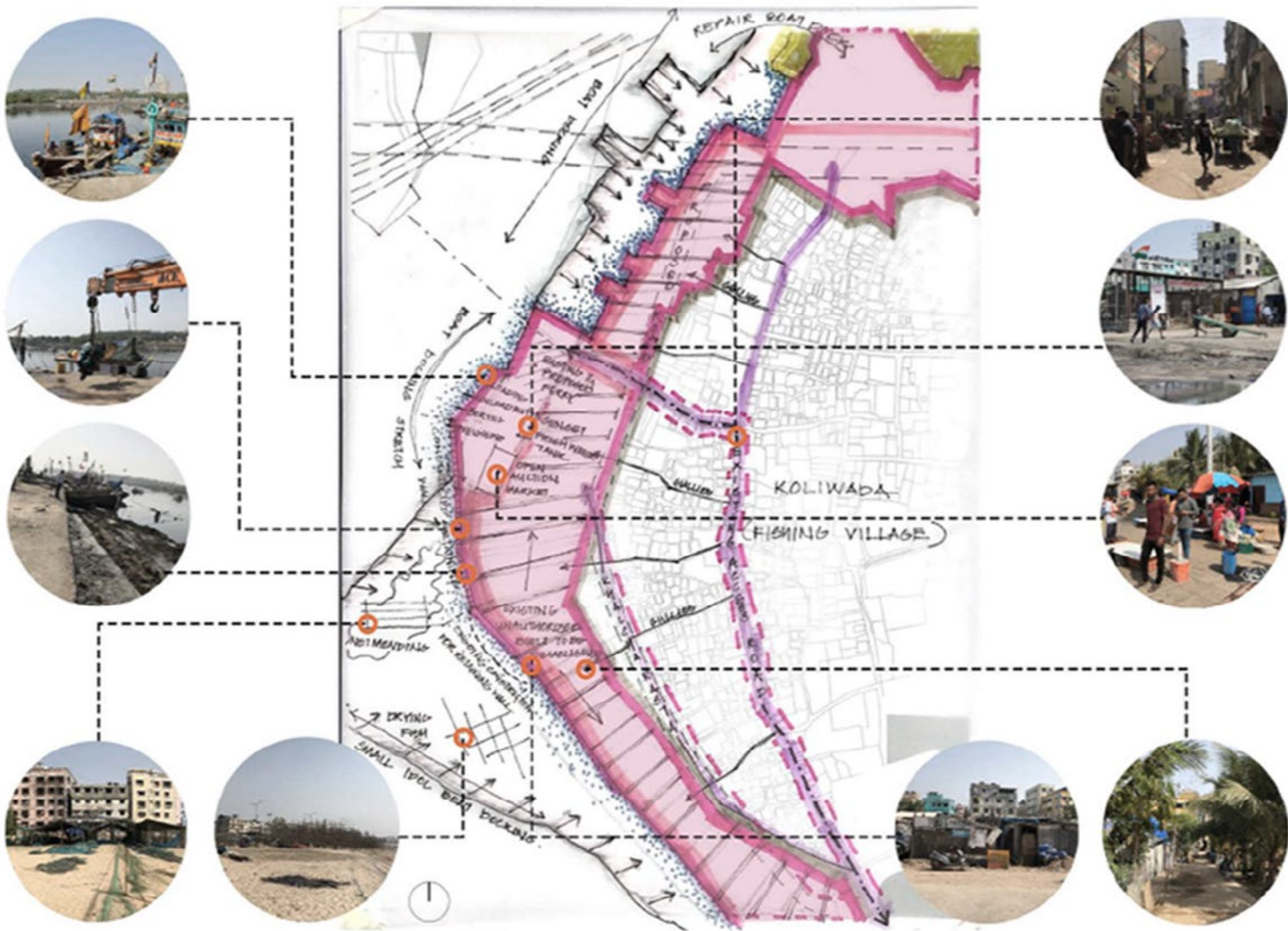


Attempt to understand the complex nature of the fishing village activities

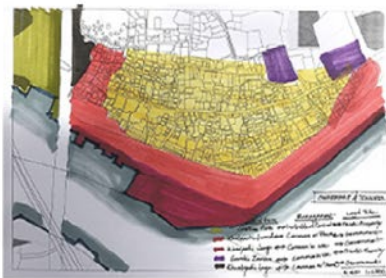


An attempt to embody the spirit of the fishing villages of India

As set up before that settlements' beginning stages are water bodies, we can reason that individuals living close by have some relationship towards them and feel firm about this particular relation. Each city has built up its rendition of waterfront improvement and key components are separating it from one another. Similarly, India, having this never-ending coastline is yet to tap its full potential in terms of not only trade but ecology, tourism and uplifting their indigenous communities. One of the first of its kind, a fishing village in Mumbai from where the city emerged has been neglected and has directly affected the fishermen as their primary source of income has been compromised. A step towards the revival of one such community can initiate a bigger movement throughout the coastline.



Tangible Site Analysis - Existing Conditions



Ownership Mapping

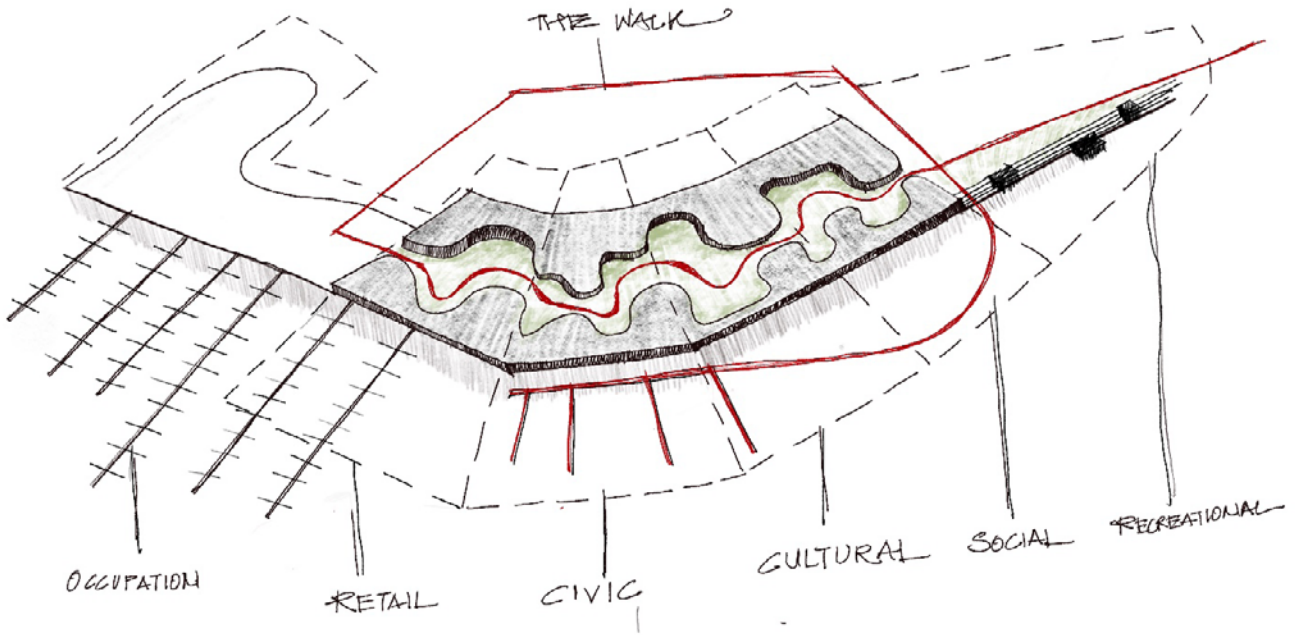


Footfall Mapping

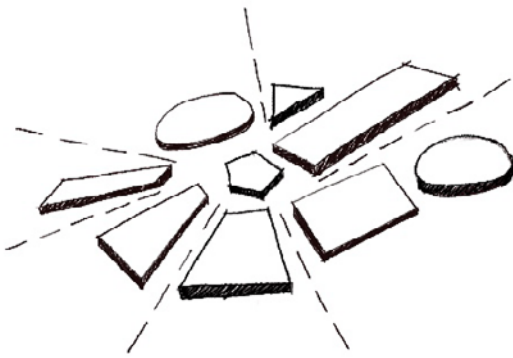


Sensory Mapping

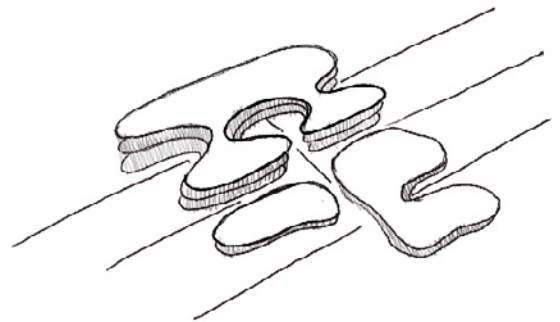
Intangible Site Analysis - Activity Cycle



Zoning responding to site analysis



Diversity of Spaces



Integration of Spaces



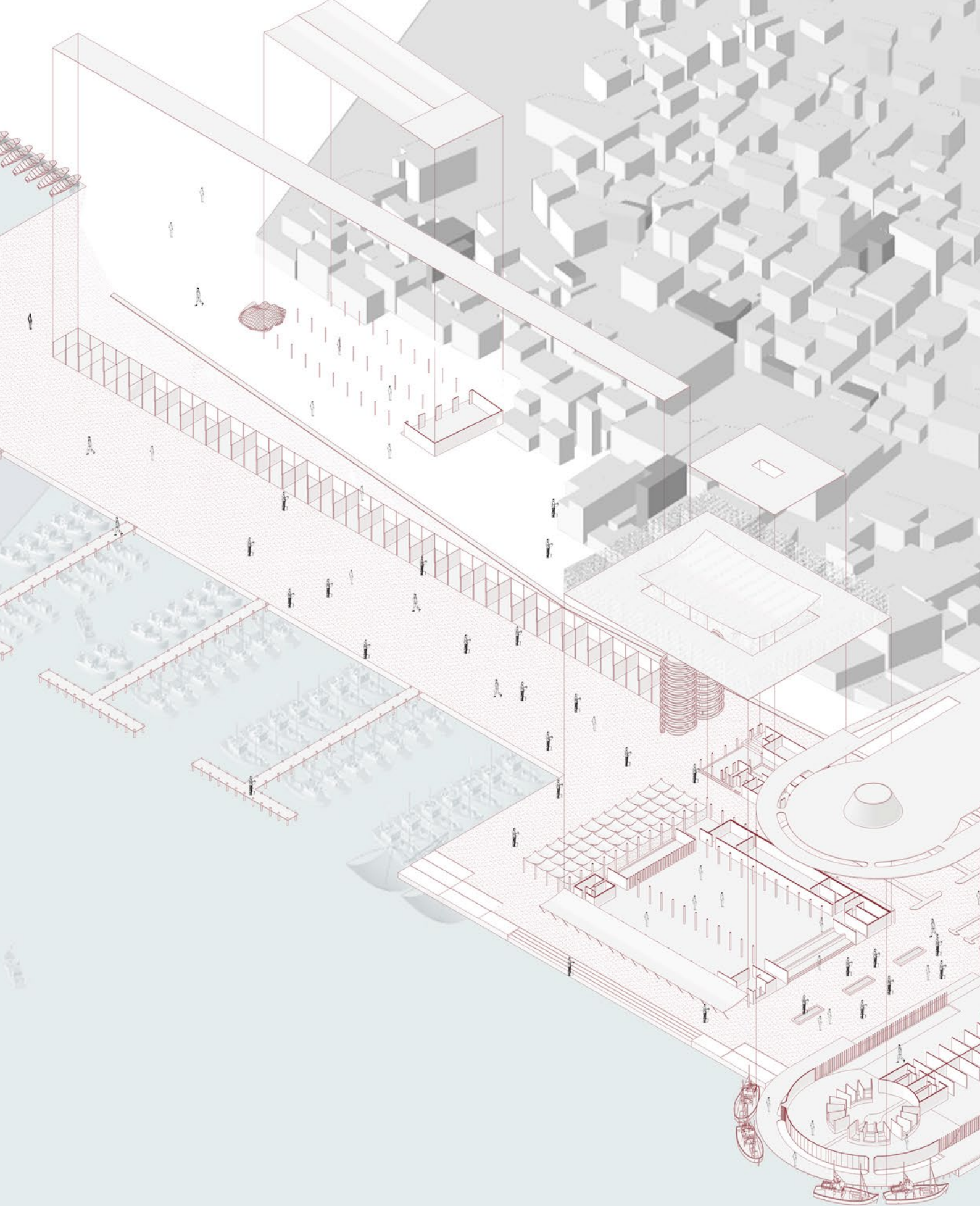
Climate Mapping



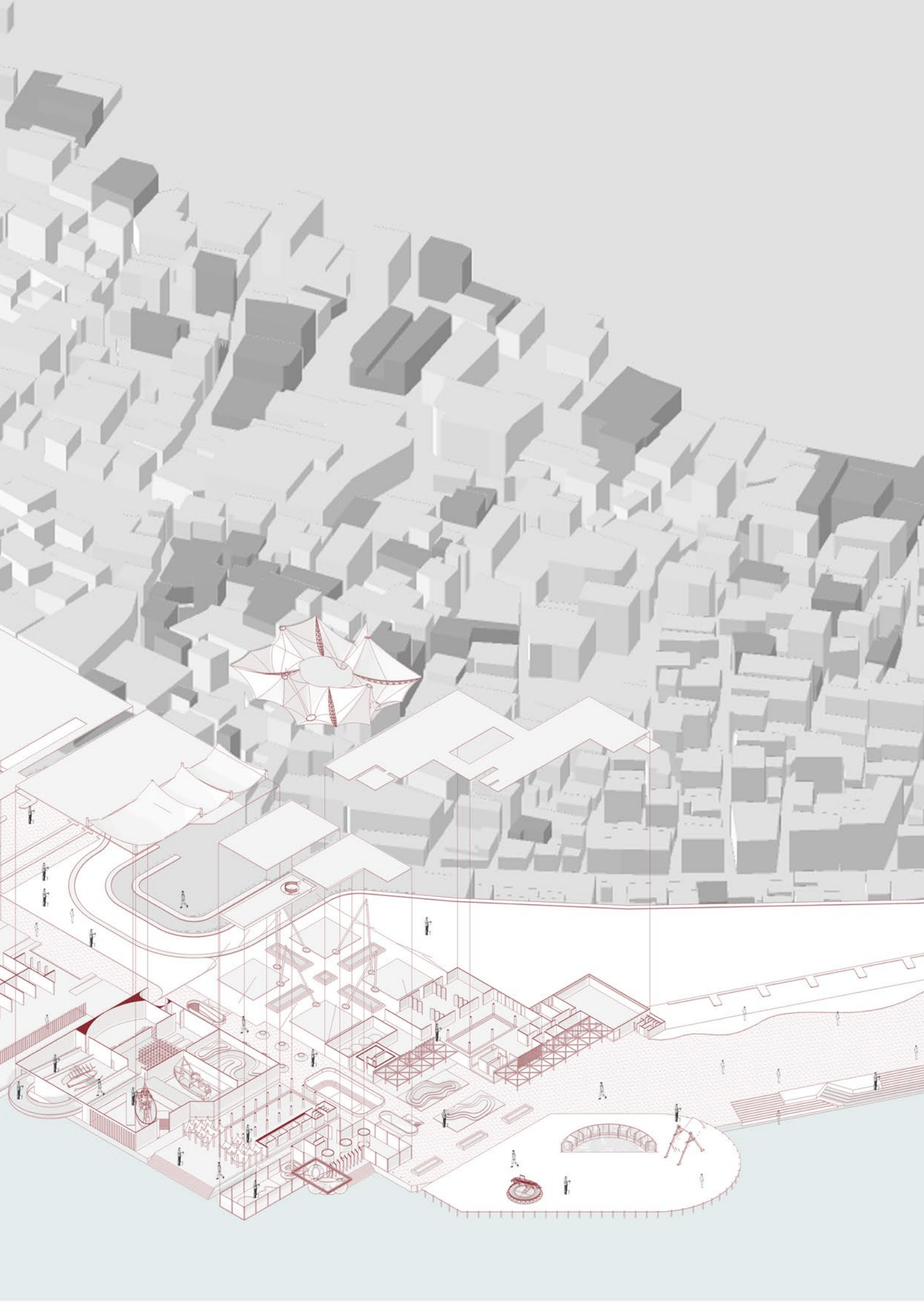
Un-used Space Mapping



Infrastructure Mapping



Self Sustaining Fishing Village System Design









03 AN INTERDEPENDANT NEIGHBOURHOOD

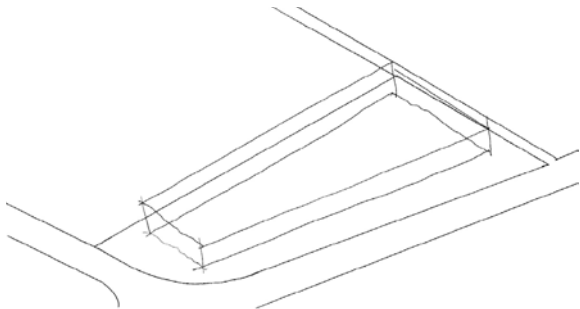
Architectural | Academic | Individual Design | 2021

This project intended to develop an interdependent system of amenities for the neighbourhood to develop a sense of identity of itself in the urban context. As the site is located in the greenfield town planning scheme, it allowed having a unique approach towards building a school and community centre that challenges the existing typologies and notions. A lot of focus has been given to the sensory aspects of the structures that will mould the future generation of the neighbourhood and provide them with a new perspective.

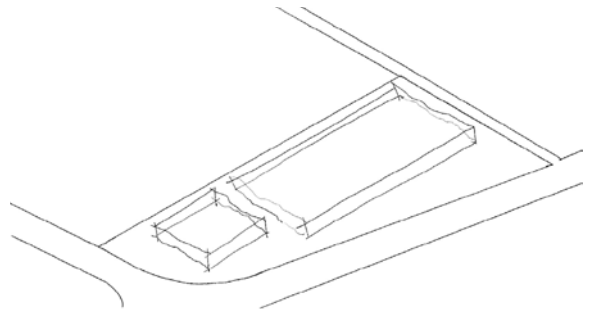


My Role

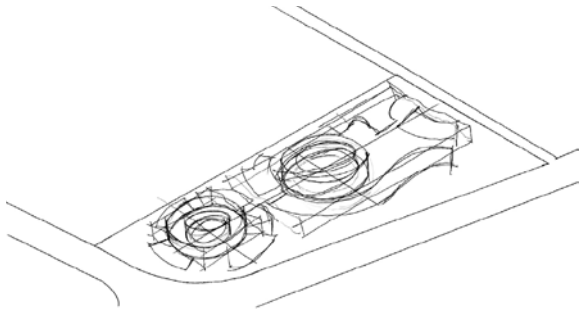
Urban Theories and Design
Education Building Design
Ergonomics and Sensory Design
Building Technology



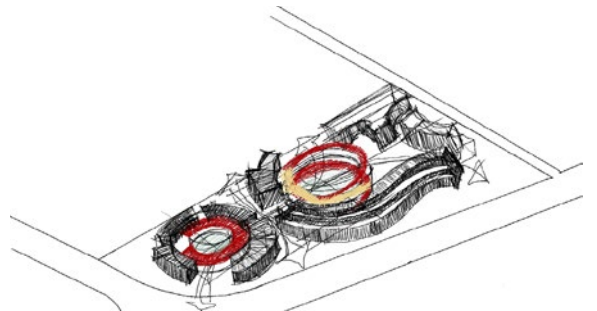
Site and Road Network



Building Zoning as per Users

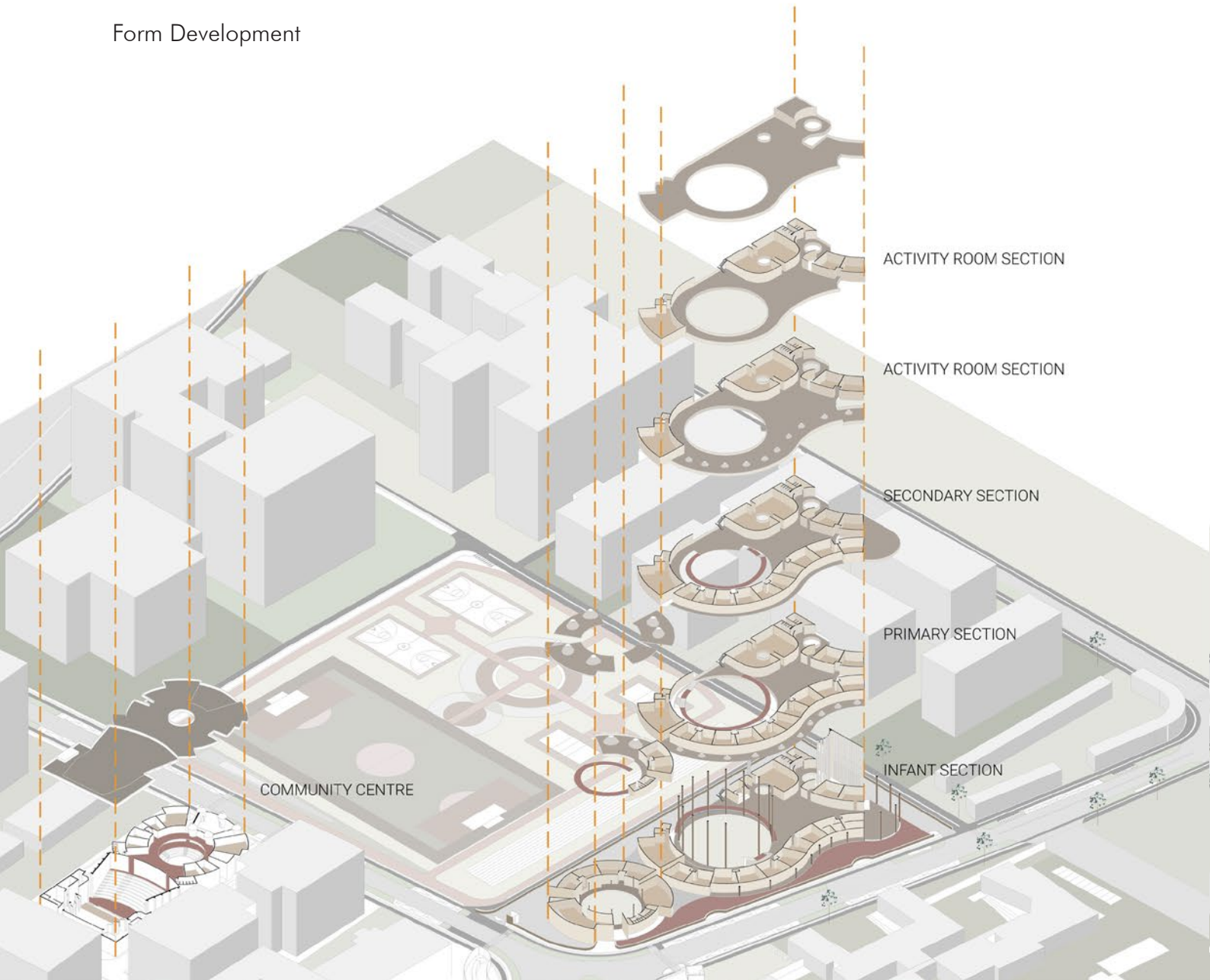


Carving out Courtyards



Integrating Circulation and Classrooms

Form Development



ACTIVITY ROOM SECTION

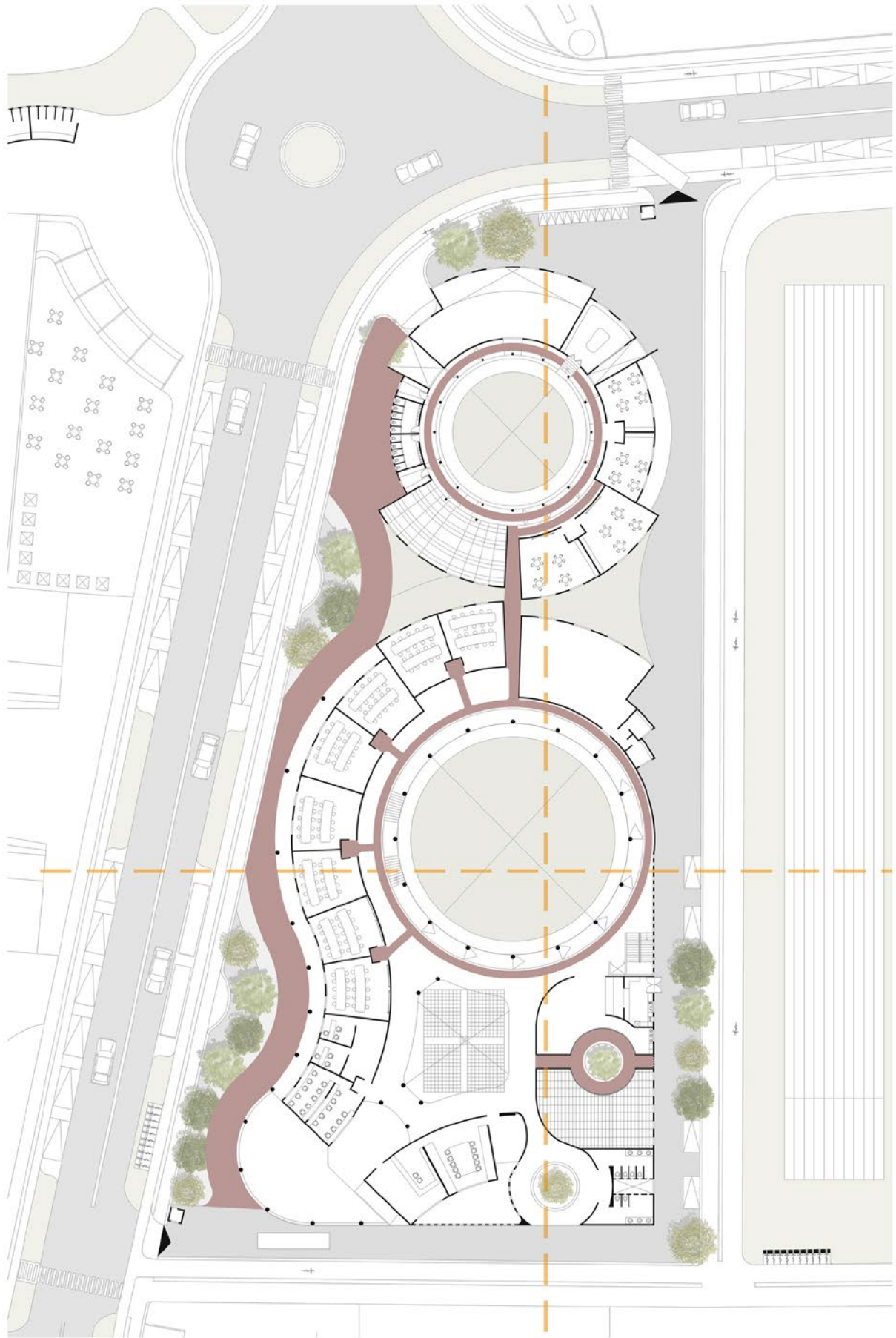
ACTIVITY ROOM SECTION

SECONDARY SECTION

PRIMARY SECTION

INFANT SECTION

COMMUNITY CENTRE



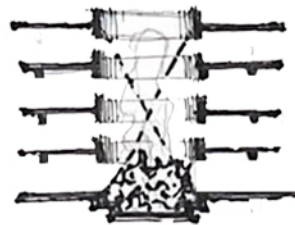
SITE PLAN A
Breaking the stereotypical idea of a classroom by introducing courtyards for better light and ventilation



Smaller courtyard for kindergarten students



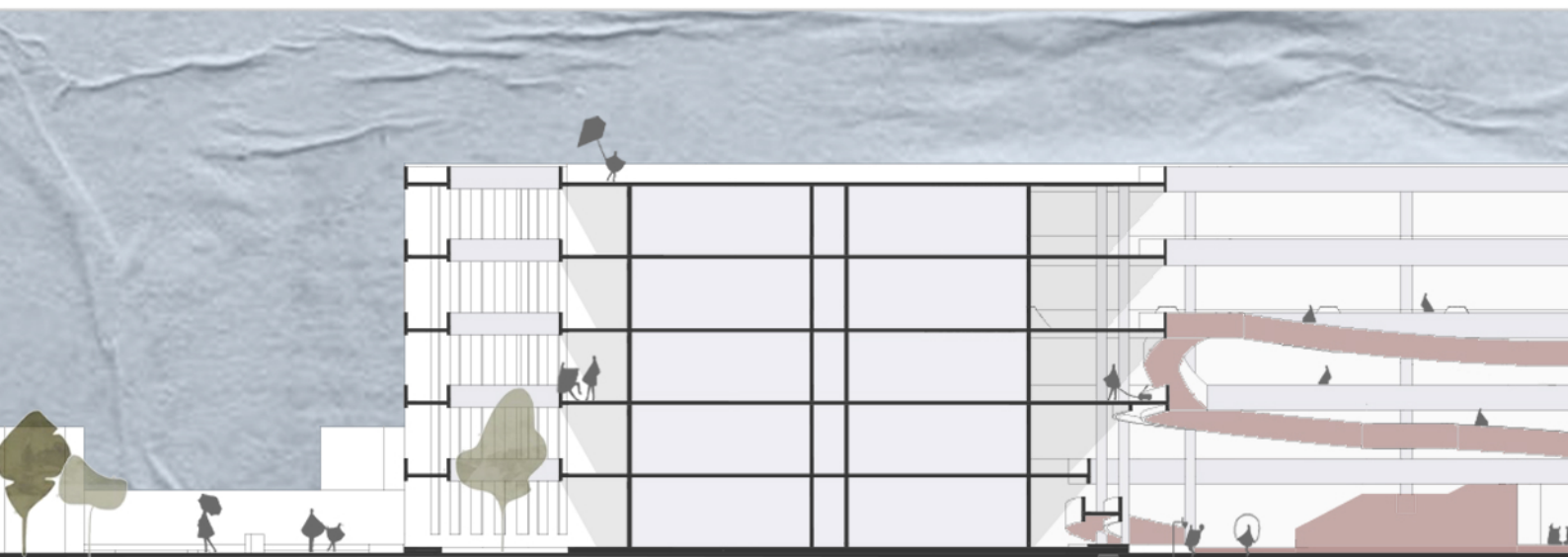
Ramps for circulation for free movement and motor skills development



Multiple courtyards for better light and ventilation throughout the built



Interdependent multi-sensory ex





Playground turned courtyard with overlooking circulation to promote visual connect



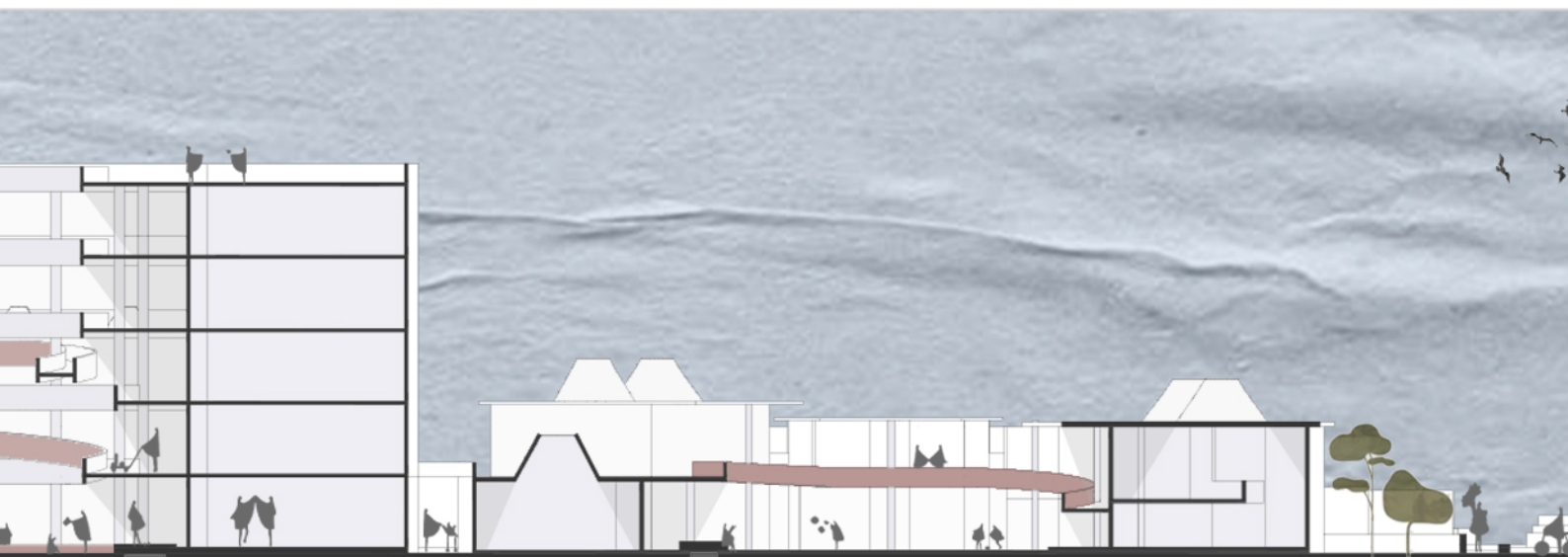
Spaces to initiate a experience



Forming Funnels to Optimize Air Flow and Ventilation



Radiating classrooms for a more inclusive and interactive space

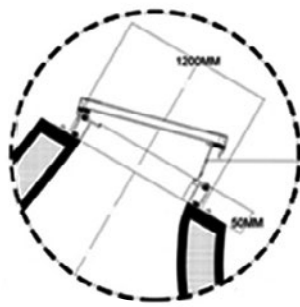








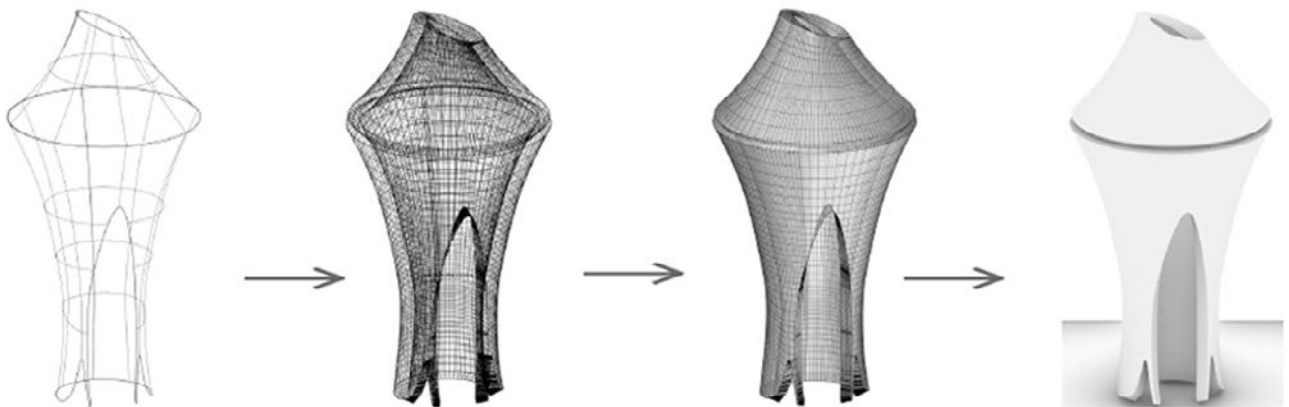
Mezzanine and Column Junction



Operable Photovoltaic Skylight



Footing and Column Junction



Ferro Cement Construction Process



04 LIVING WITH WATER Climate Adaptation and Retribution in Bangladesh

Dissertation & Architecture | Academic | Group Design and Research | 2023

The interdisciplinary course, "Climate Uncertainties," jointly offered by AAP and CALS under Climate X, explored various challenges and how they challenged the traditional view of uncertainty, considering it a catalyst for innovative interventions. State-of-the-art tools like GIS and AI programming were used to address climate challenges. The course, enriched by a speaker series and site visits, aimed to impact the built environment and society. The objective was not only to develop climate-aware professionals but also proactive designers and engineers who could shape collective futures. Key learning objectives included analyzing climate challenges, designing hydrologic solutions, fostering interdisciplinary collaboration, interoperability across tools, and embracing uncertainty for envisioning just climate futures.

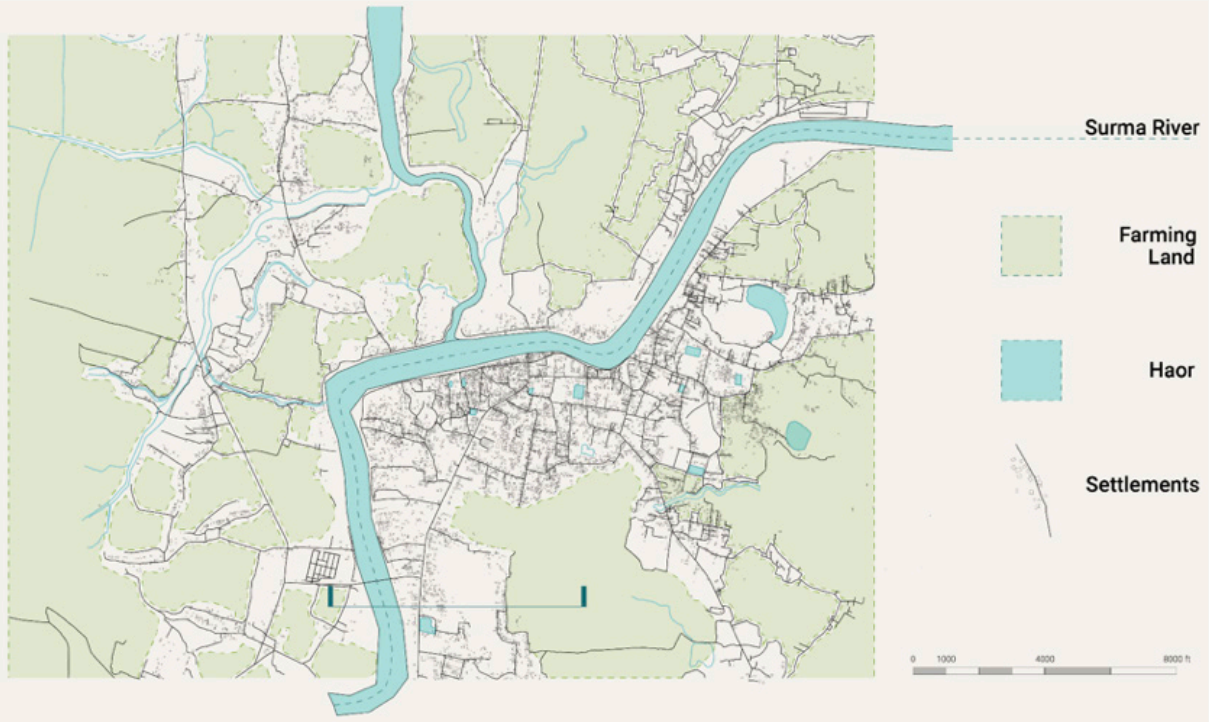


h

climate-related themes. It
like uncertainty modeling
aimed to bridge academia
ers capable of impacting
g collaboration, enhancing

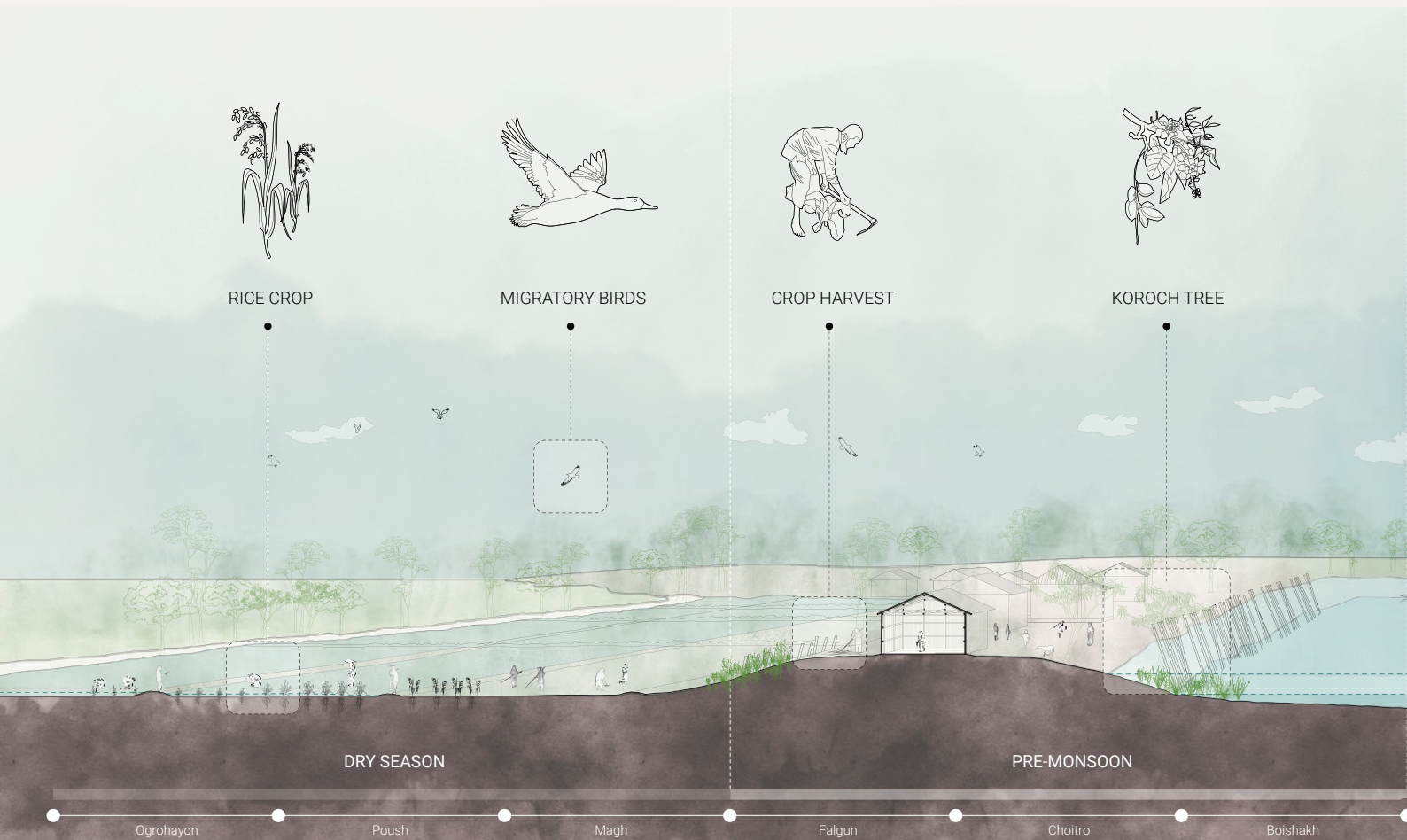
Learnings

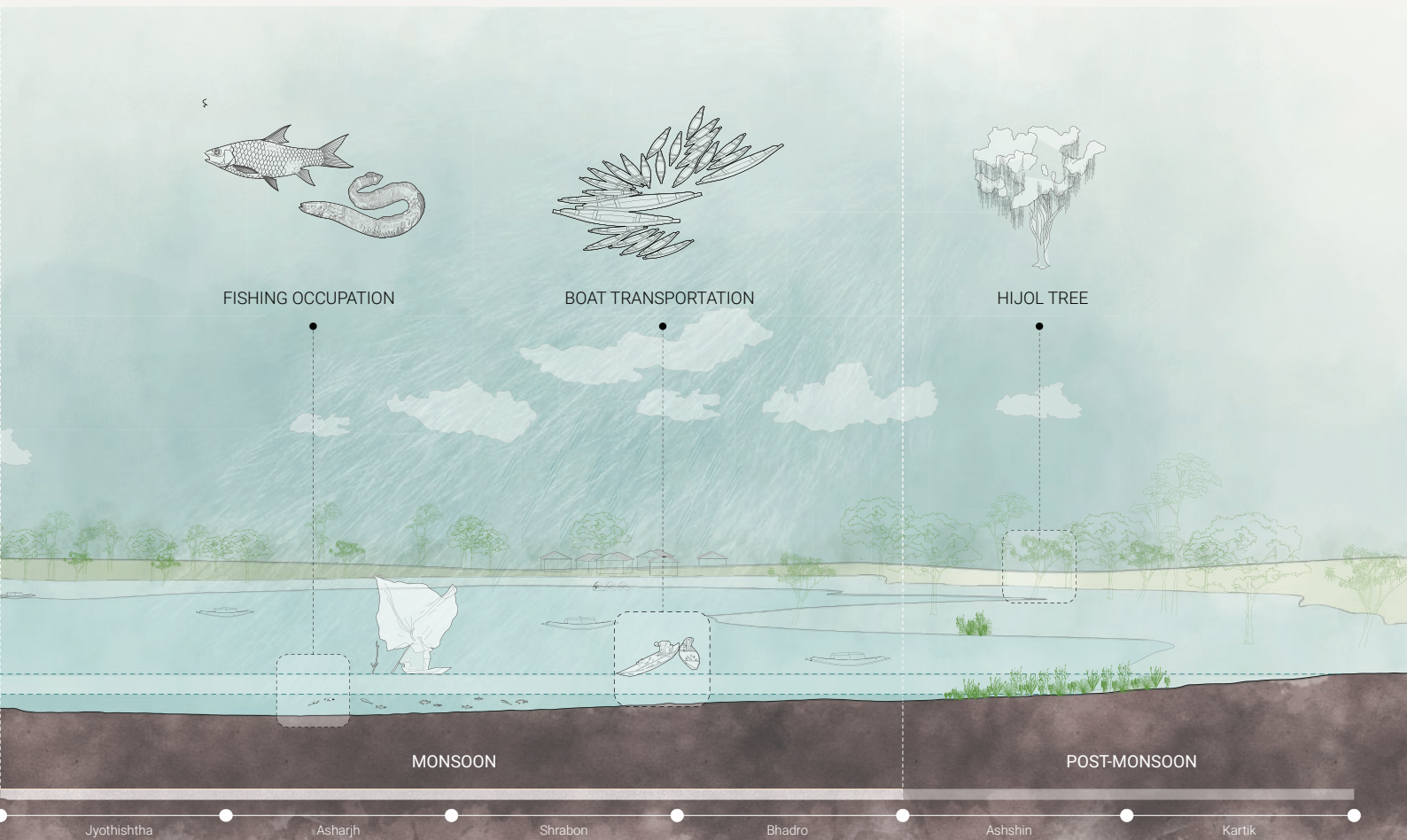
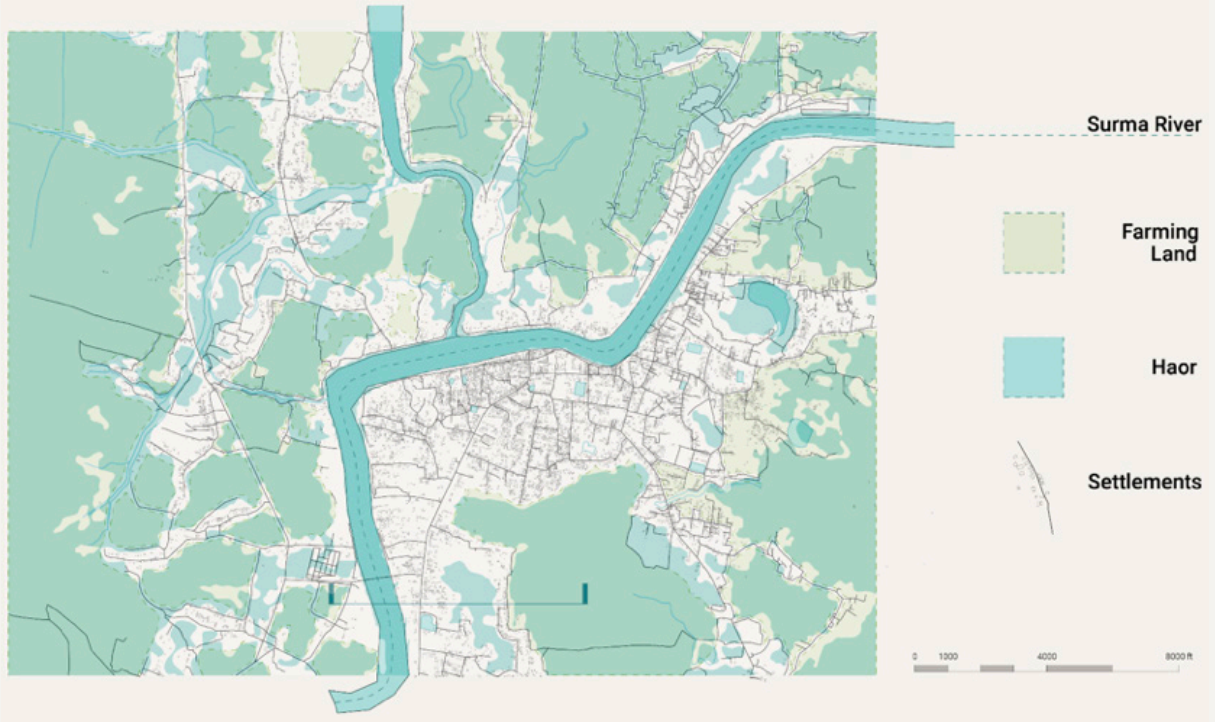
Climate Engineering
GIS Mapping and Analysis
Strategy Design
Bamboo Construction
Representation



Site: Sunamganj Water Inundation

Data Source: 'Master Plan of Haor Area' Report
 Extensive use of GIS Mapping for Climate analysis





1.5 M

LEVEL 1: PREPARATION



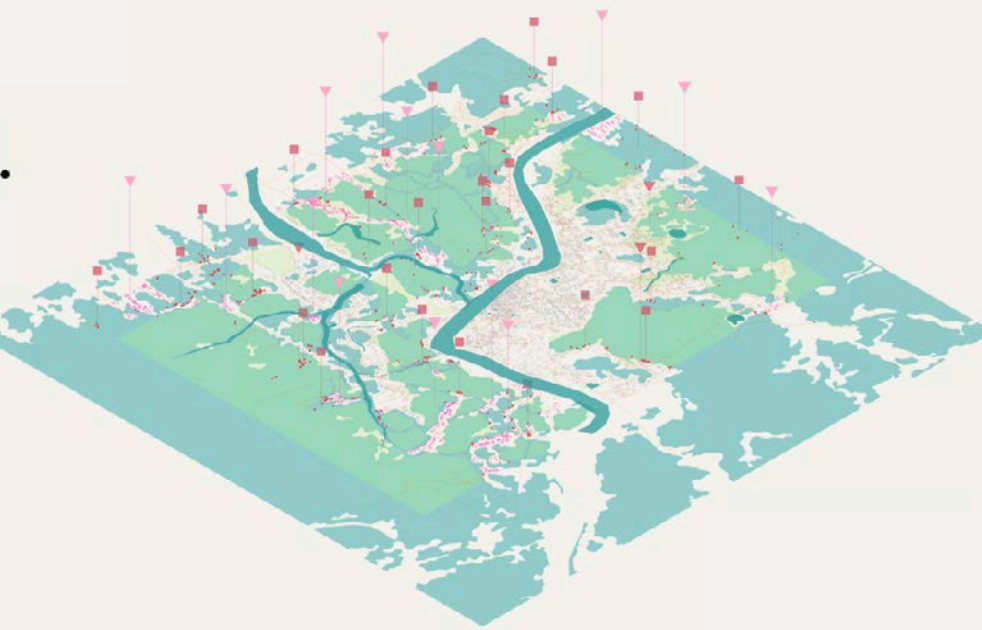
3.0 M

LEVEL 2: EVACUATION



3.5 M

LEVEL 3: DANGER

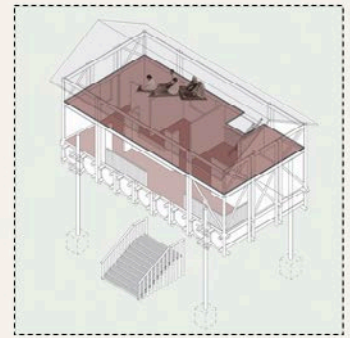
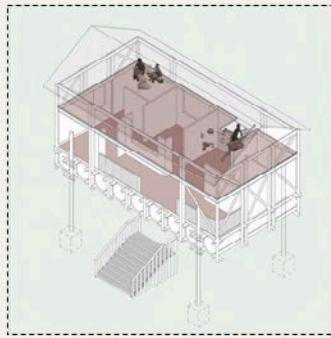


Dry Season

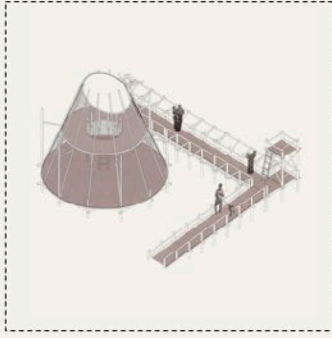
Pre Monsoon

Monsoon

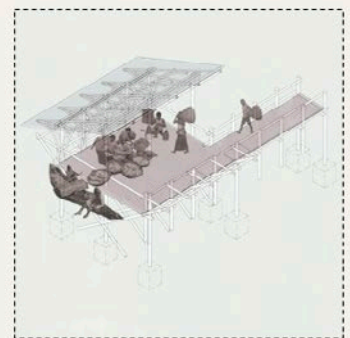
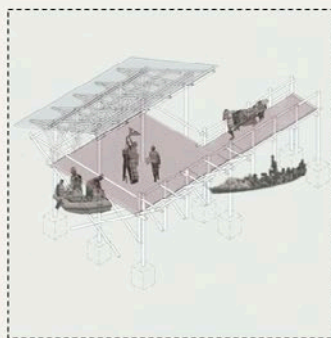
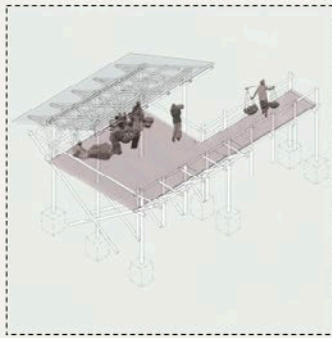
Amphibian Home



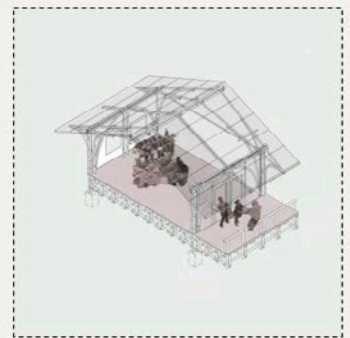
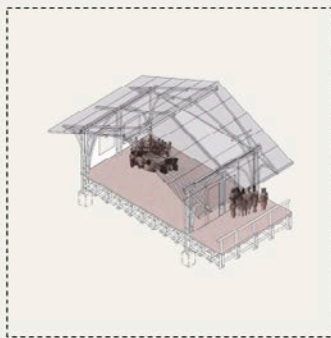
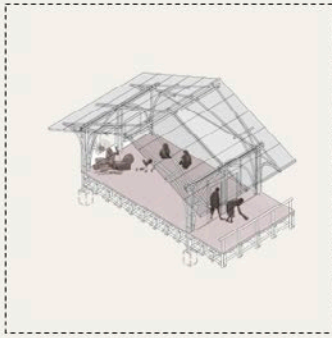
Grainary



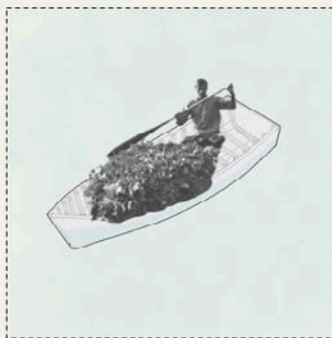
Market Pier



Resource Center



Boat Infrastructure

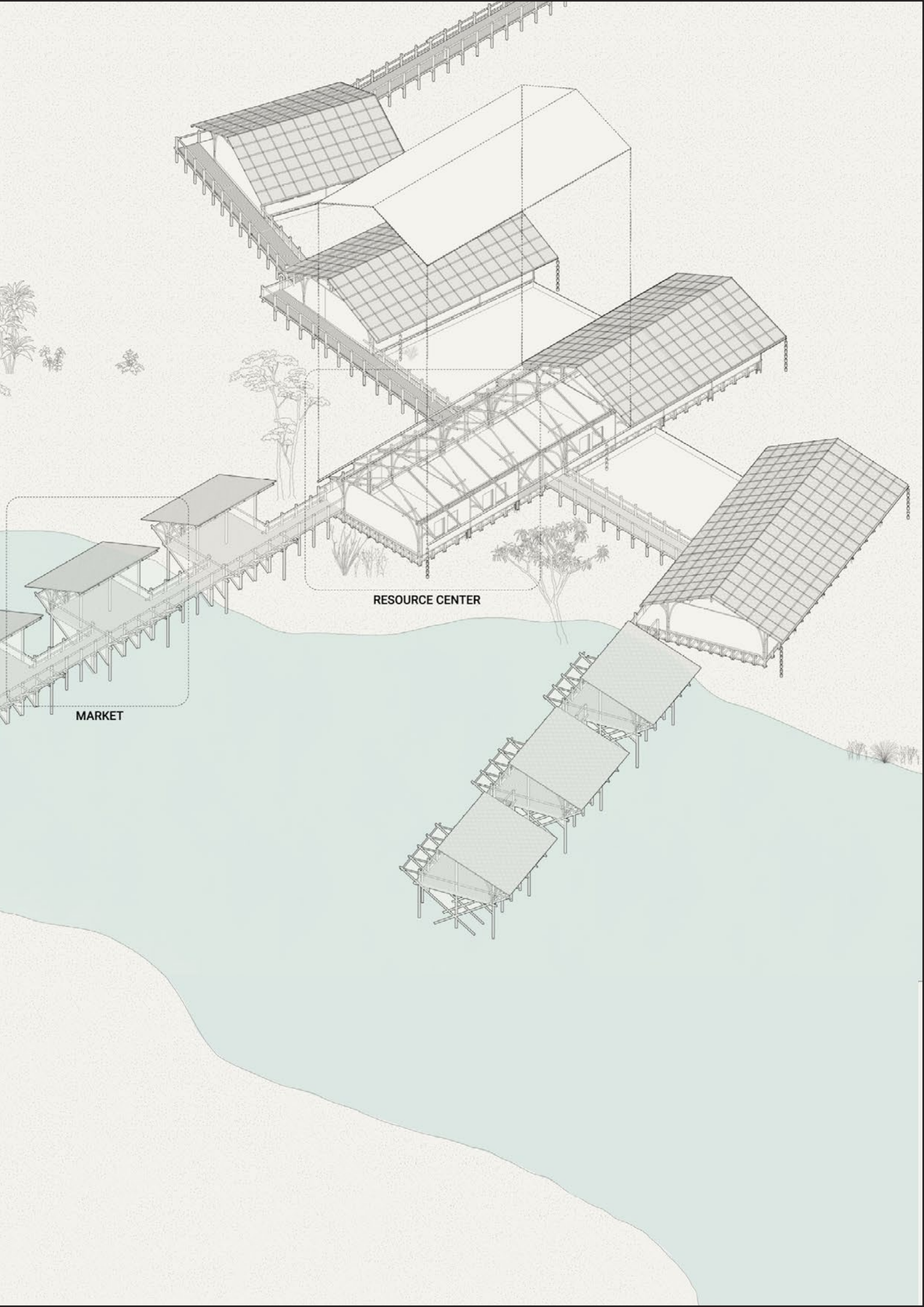


Seasonal Uses of Interventions



KEY PLAN

INTERVENTIONS NETWORK



RESOURCE CENTER

MARKET



05 MAHAD NAGARPARISHAD Government Building

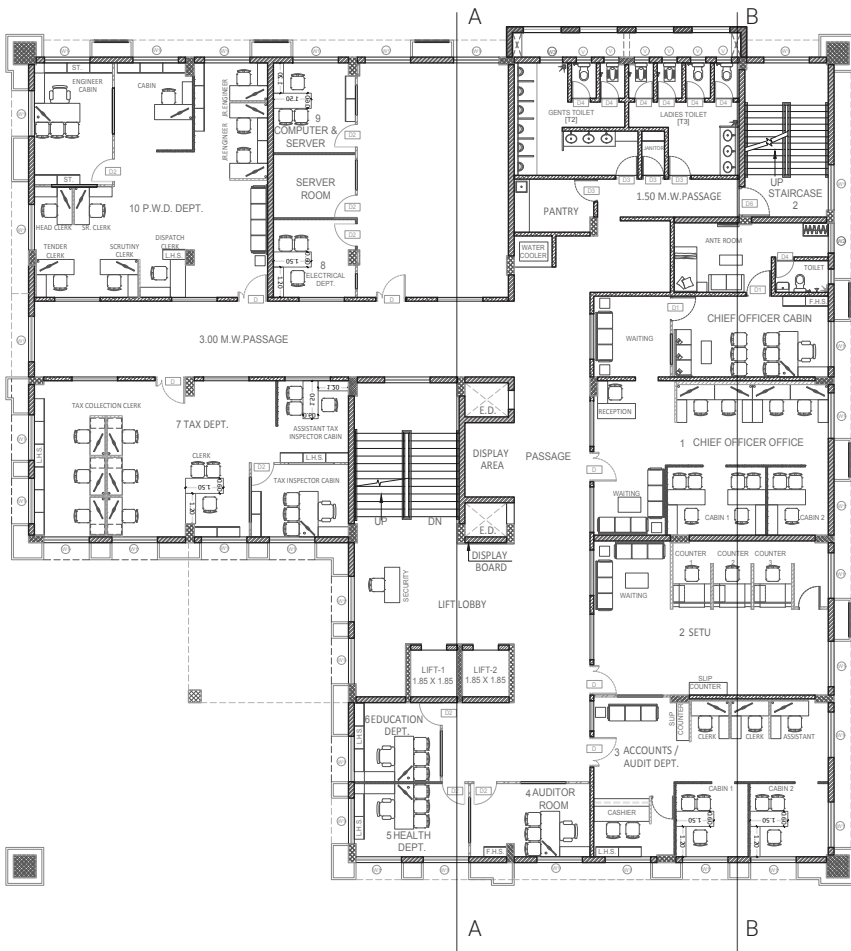
Built Architecture | Professional | Group Design and Research | 2021

Designed to serve as the central hub for civic administration in Mahad, this building brings together all key town development departments under one roof. Serving a population of approximately 180,000 residents (as per the latest census), the structure is envisioned as a functional and accessible space that fosters efficient governance and public engagement. The design prioritizes clarity of circulation and departmental organization while responding to the local climate and context. With a focus on transparency and public service, the building stands as a symbol of institutional integrity and progress, reflecting the aspirations of Mahad's growing urban fabric.

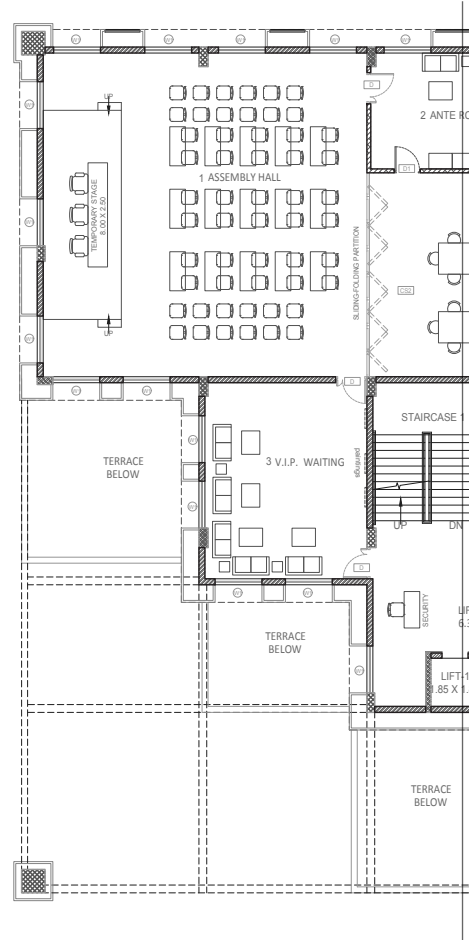


My Role

Drawing Set Revision
Building Codes and International Standards
Workspace Design
Interior Design
Consultant Co-ordination



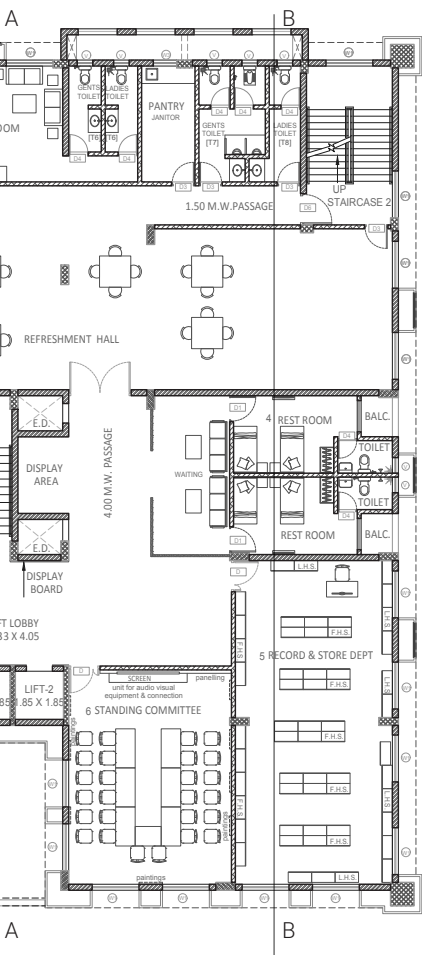
Second Floor Plan



Third Floor Plan



Section A-A'



Fourth Floor Plan



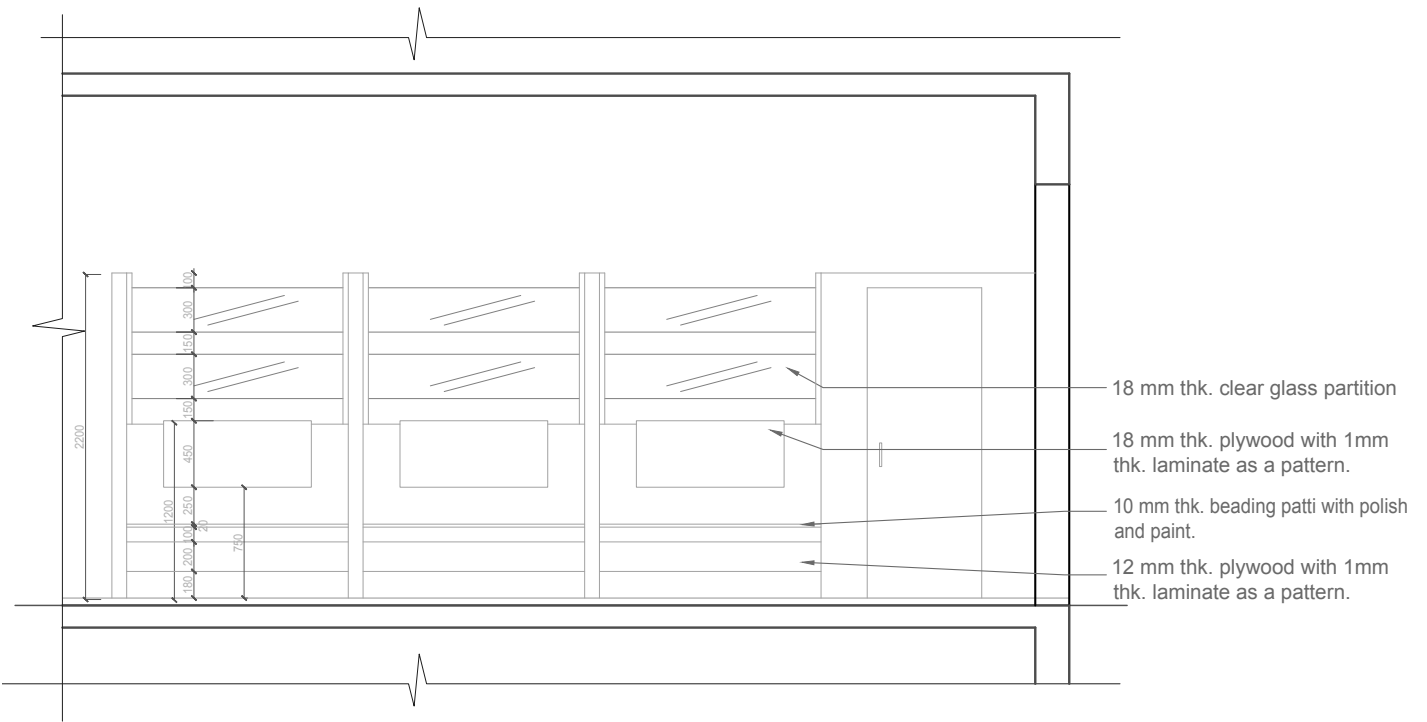
Section B-B'



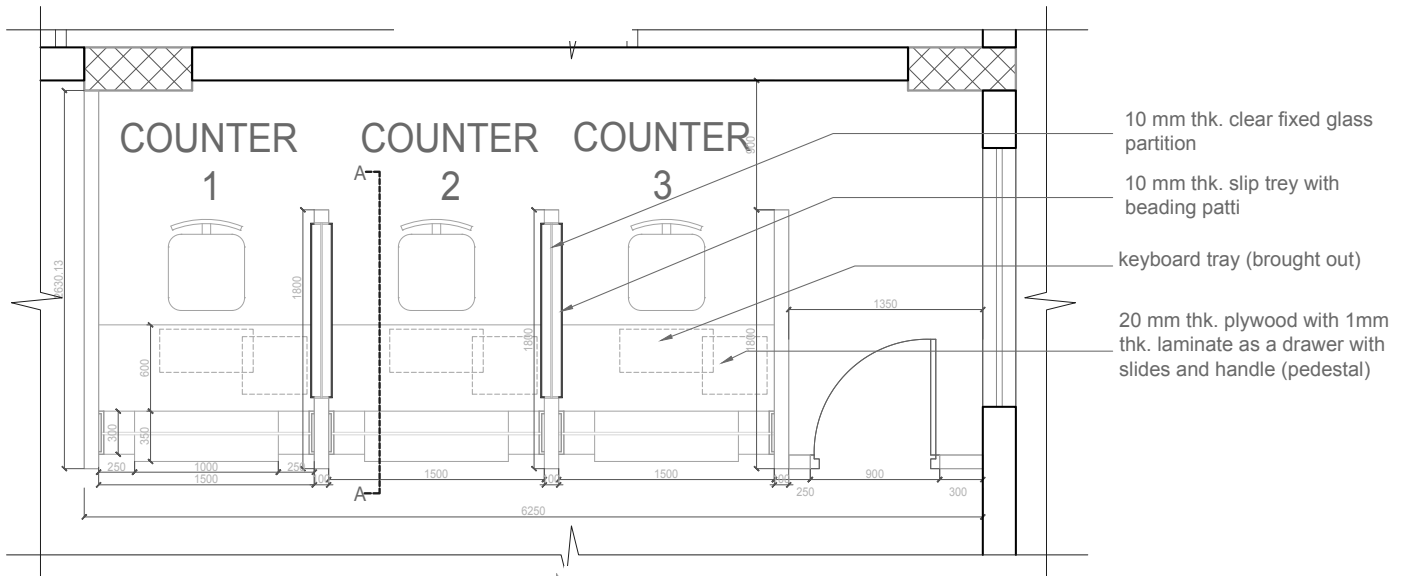
Construction View



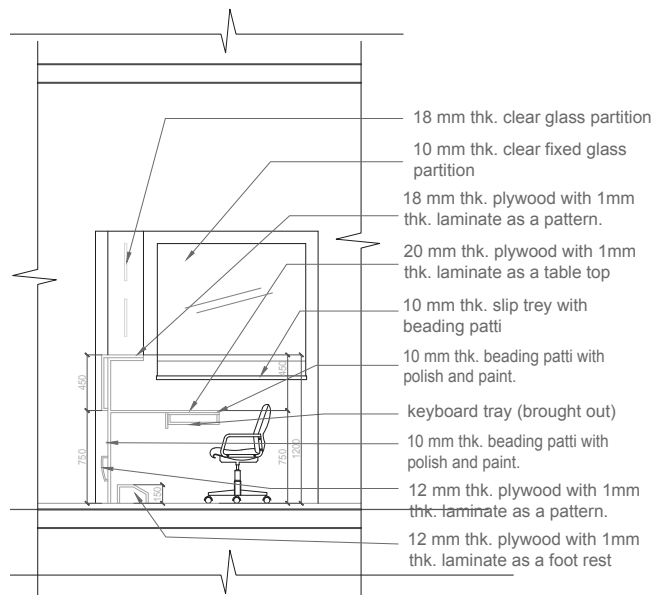
Post Completion View



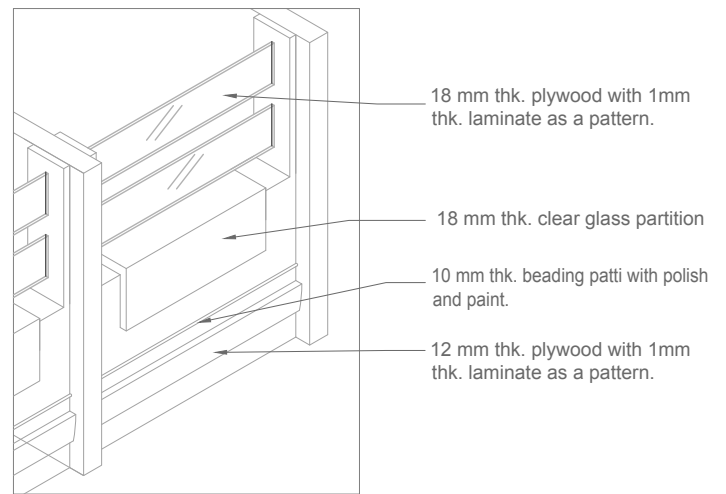
- 18 mm thk. clear glass partition
- 18 mm thk. plywood with 1mm thk. laminate as a pattern.
- 10 mm thk. beading patti with polish and paint.
- 12 mm thk. plywood with 1mm thk. laminate as a pattern.



- 10 mm thk. clear fixed glass partition
- 10 mm thk. slip tray with beading patti
- keyboard tray (brought out)
- 20 mm thk. plywood with 1mm thk. laminate as a drawer with slides and handle (pedestal)



- 18 mm thk. clear glass partition
- 10 mm thk. clear fixed glass partition
- 18 mm thk. plywood with 1mm thk. laminate as a pattern.
- 20 mm thk. plywood with 1mm thk. laminate as a table top
- 10 mm thk. slip tray with beading patti
- 10 mm thk. beading patti with polish and paint.
- keyboard tray (brought out)
- 10 mm thk. beading patti with polish and paint.
- 12 mm thk. plywood with 1mm thk. laminate as a pattern.
- 12 mm thk. plywood with 1mm thk. laminate as a foot rest



- 18 mm thk. plywood with 1mm thk. laminate as a pattern.
- 18 mm thk. clear glass partition
- 10 mm thk. beading patti with polish and paint.
- 12 mm thk. plywood with 1mm thk. laminate as a pattern.

Interior Drawings for Workspace



Assembly Area View



Typical Cabin View



06 UPVAN GYMKHANA

Waterfront Facility|Professional Practice|Group|2022

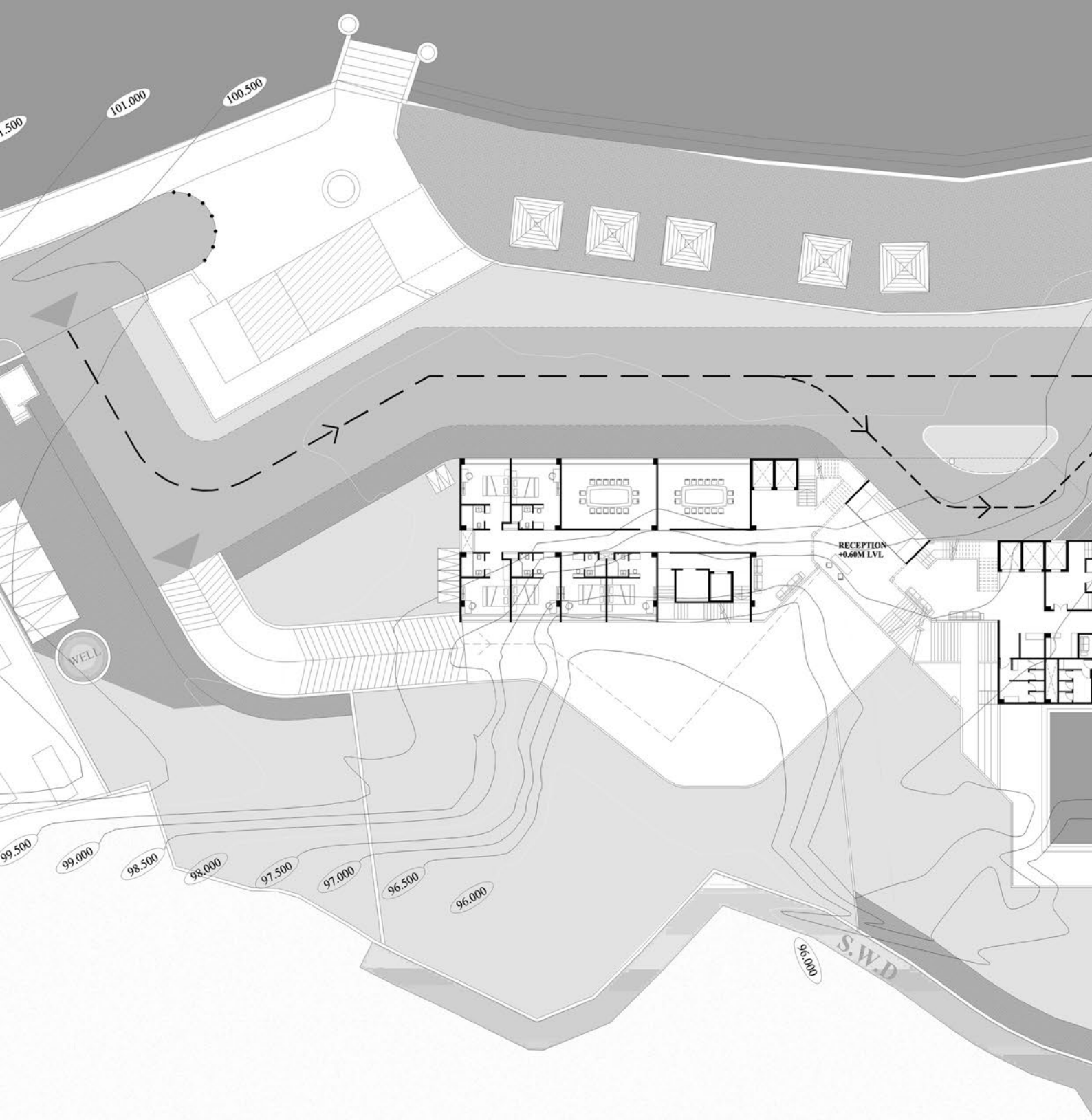
A waterfront sports club is a vision developed by the Thane Municipal Corporation. We had the opportunity to translate the vision of a bold future for sports in our country. As the site is placed on a contoured site facing the lake the design approach was to create open spaces facing the lake. We wanted to capture the dynamic nature of sports yet keeping it as calm as the lake therefore we opted for a structure minimal and focus on the roof as more than half of the built lies below the road level. While creating levels we had to be careful of cutting and filling of the contours. After studying the sunpath and thermal mapping the roof has taken a strong angle towards south where the solar panels are placed for maximum solar energy gain.

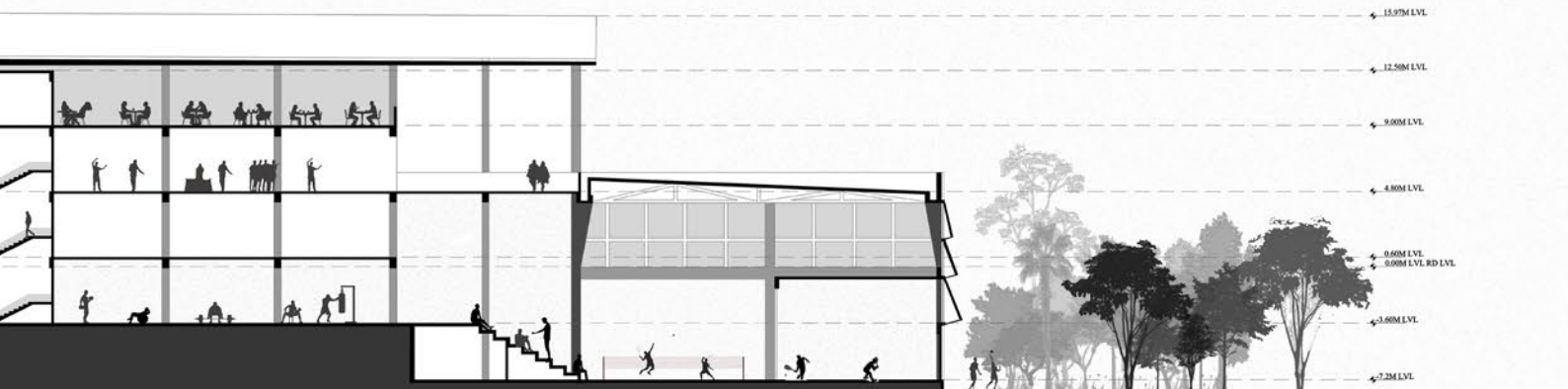
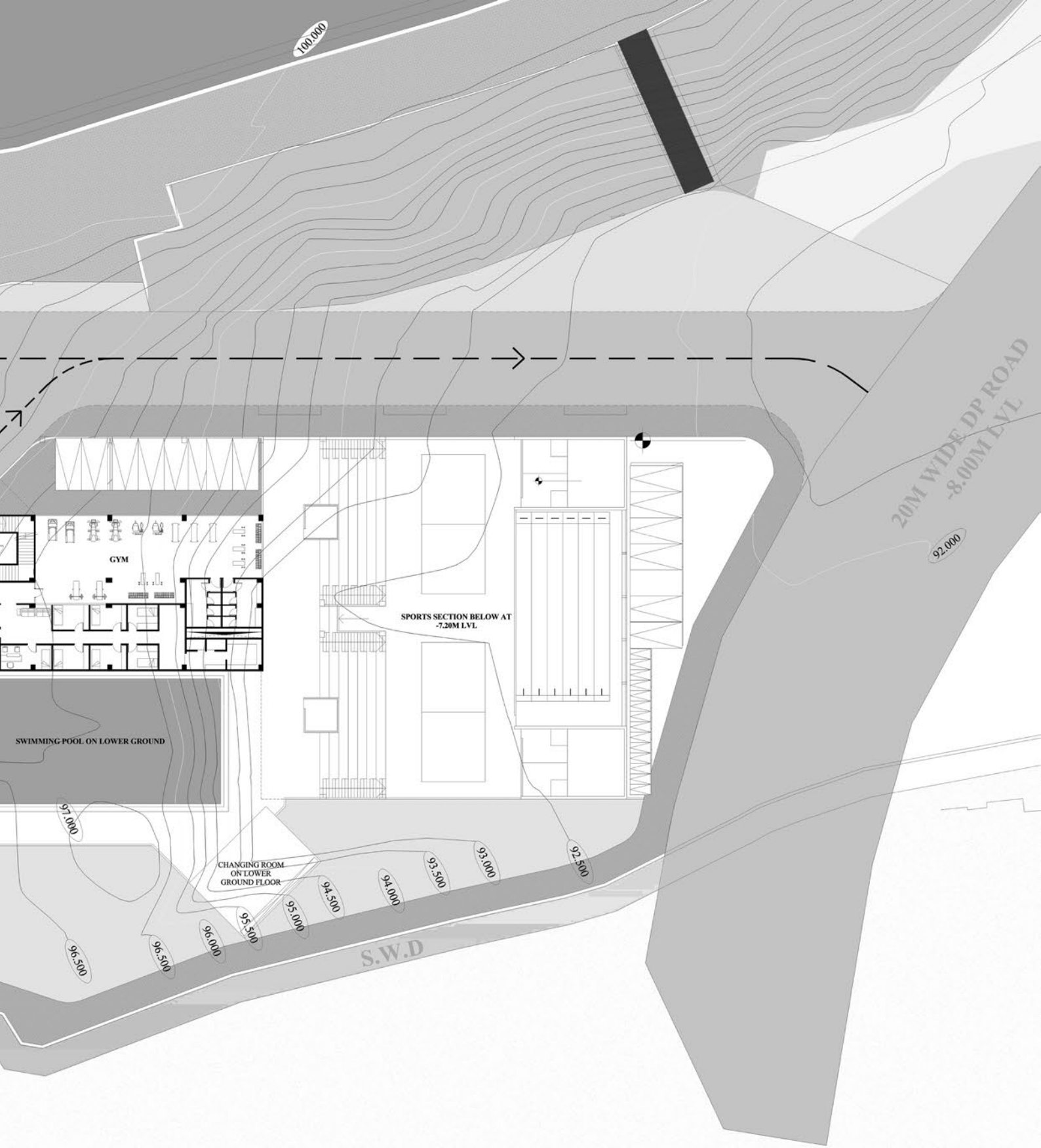


The local governing body's vision was to provide majority of the we have managed to keep the have struck an equal balance regular form with maximum face

My Role

Concept Design & Client Presentation
Sports Facility Design
Hospitality Design
Architectural Detail Resolution
Construction Documentation
Site Management



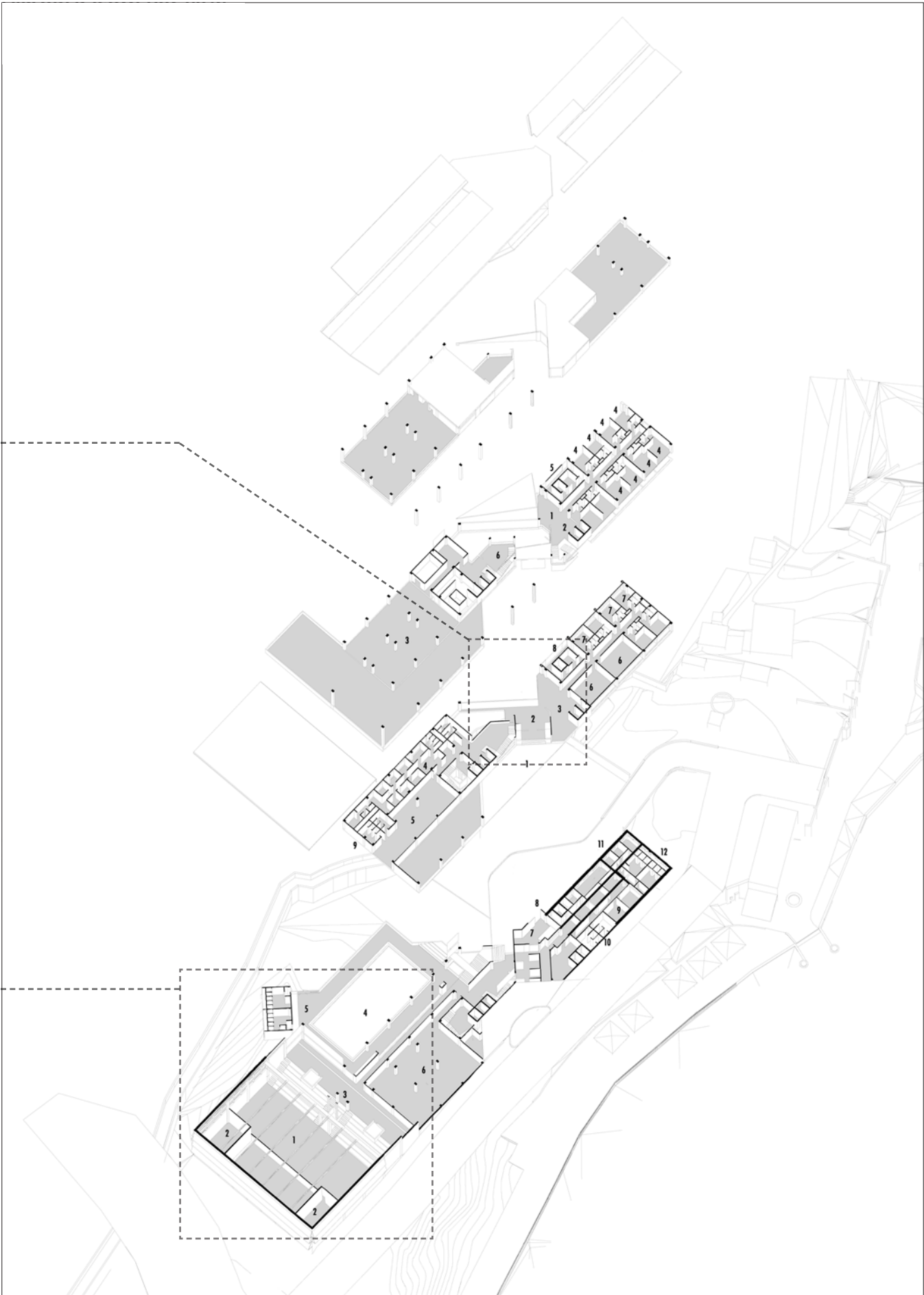




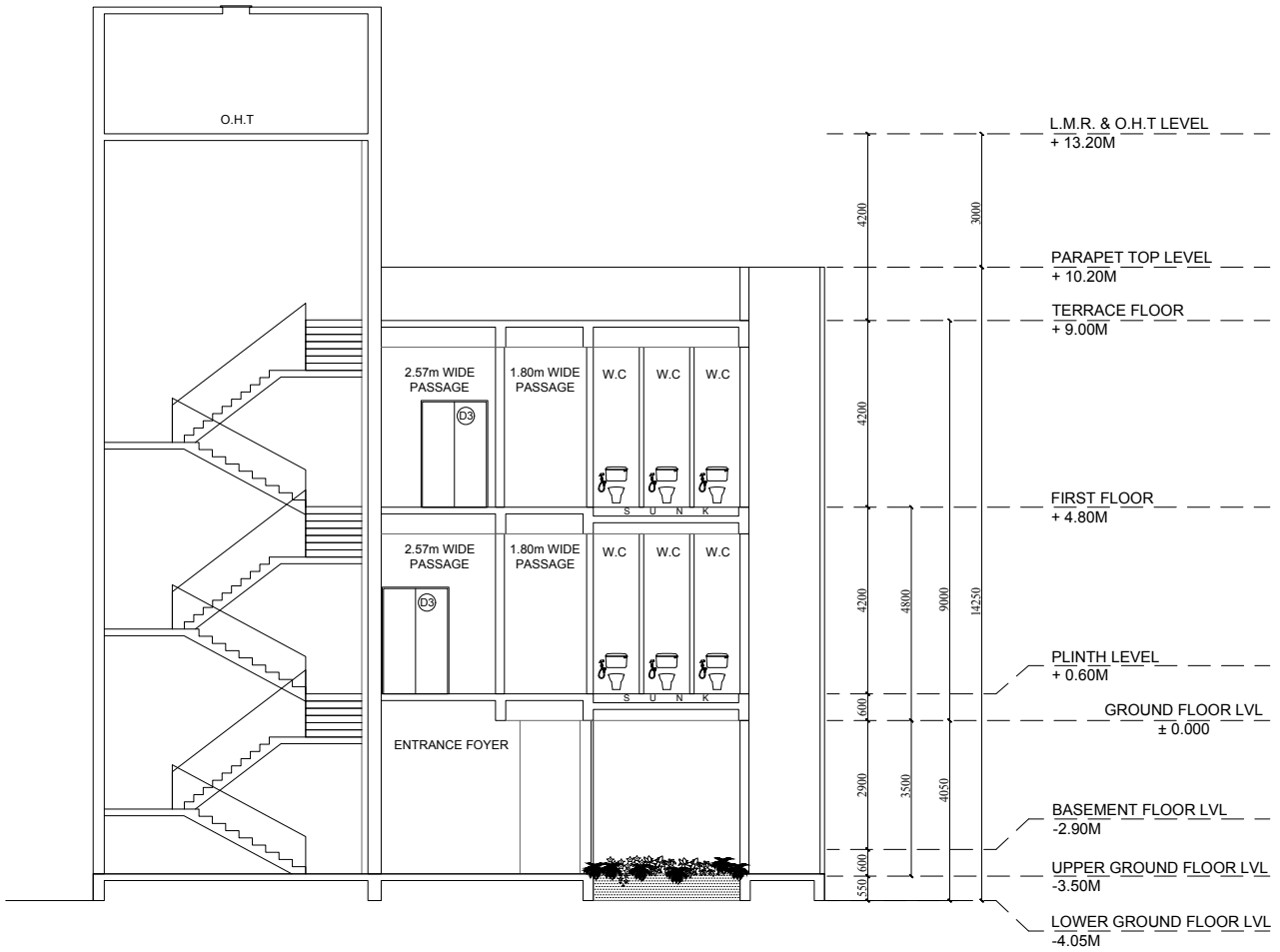
Fragmenting buildings to create interconnected courts



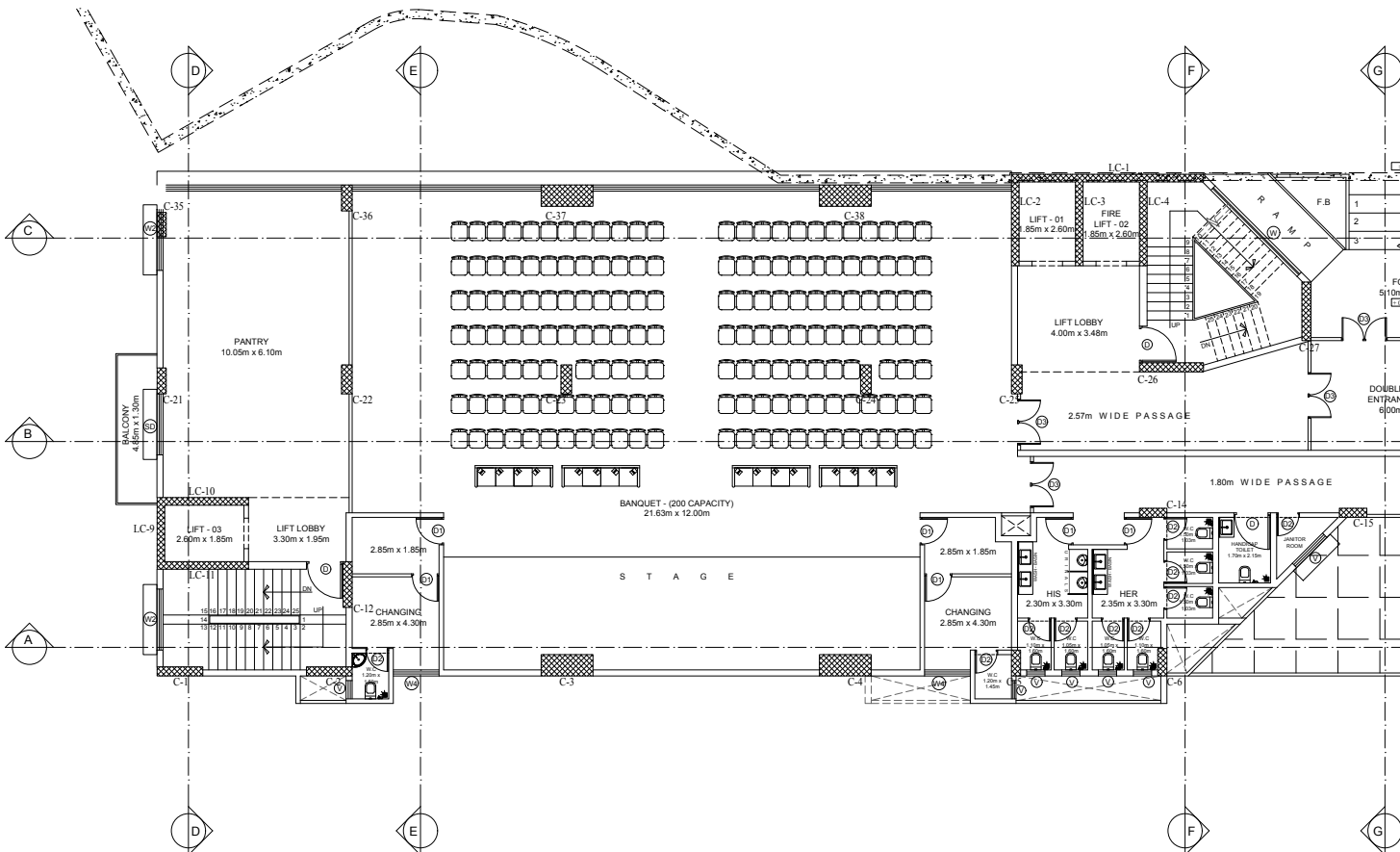
Using existing contours to create required spatial volumes



Levels worked out for minimal cut and fill to preserve site conditions



Section F-F through Building 1 & 2



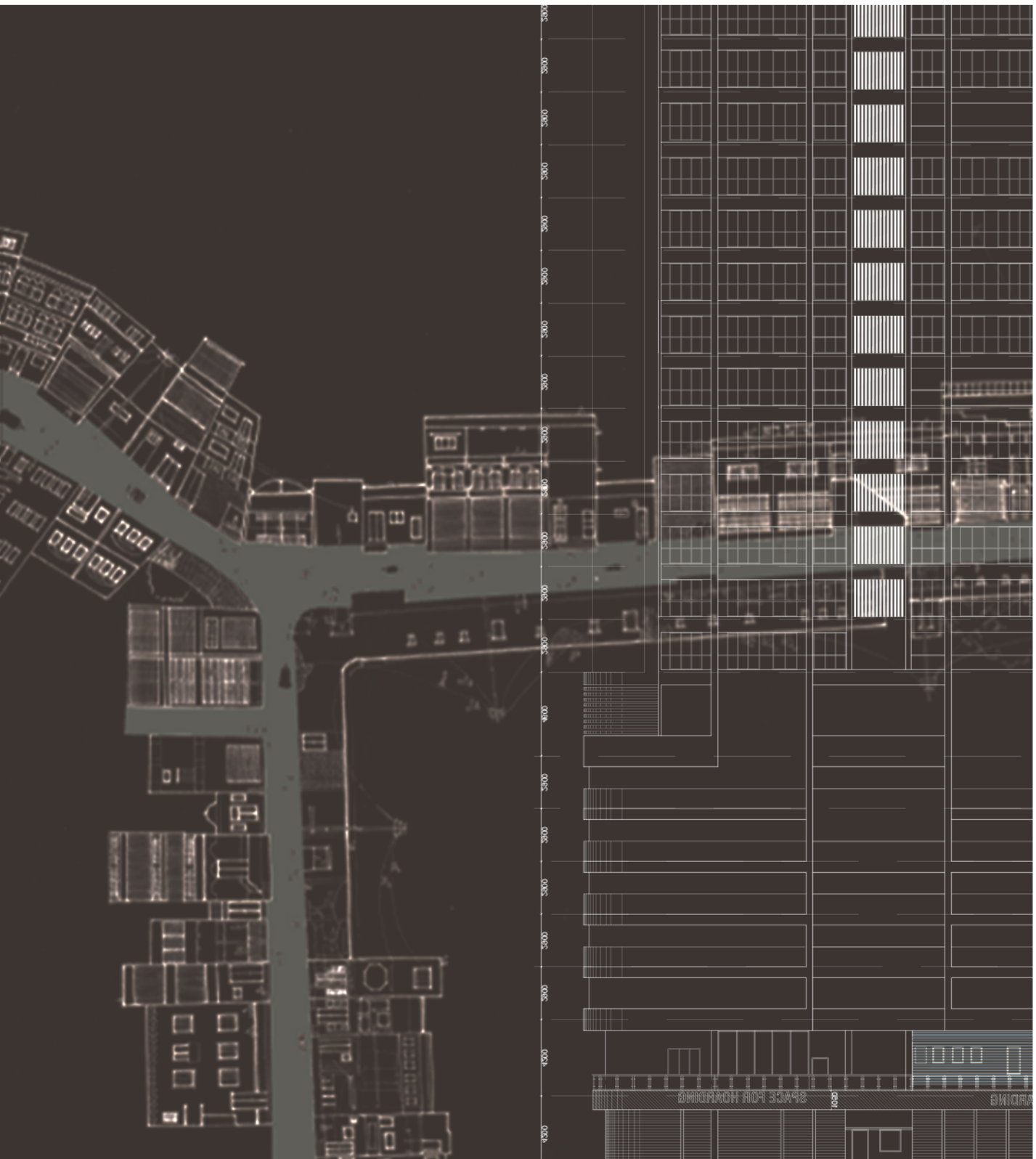
Final Co-ordination Plan for Construction



07 Representation Documentation and Construction Drawings

Commercial & Residential | Academic & Professional Practice | 2021

A selection of hand drawn documentation drawings during study tours conducted to learn vernacular construction types and conditions. It gave an insight on how cultures and traditions are translated through architecture. The second section shows samples of construction drawings which were approved for execution on site through coordination with all the consultants.



ologies in various geographic showcases professional work ts.

Softwares

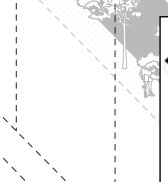
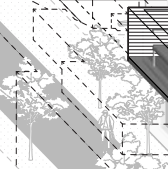
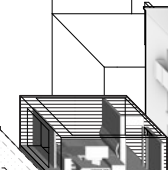
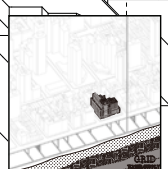
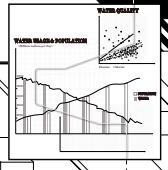
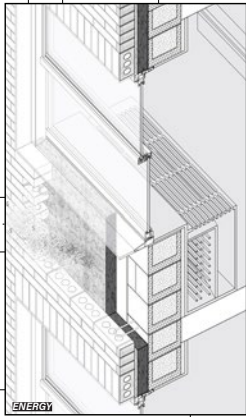
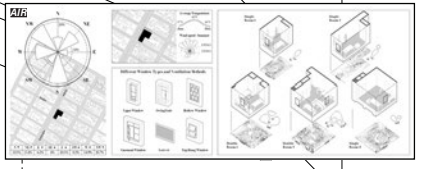
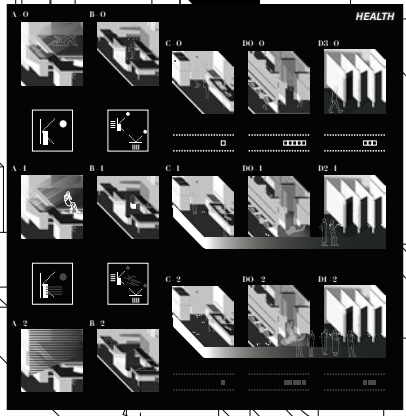
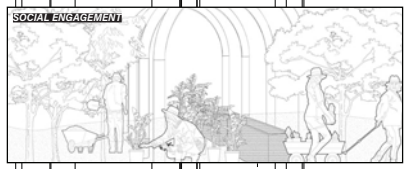
Revit | Rhino | Grasshopper
Photoshop | Illustrator | Indesign
Twinmotion | Enscape | V-Ray

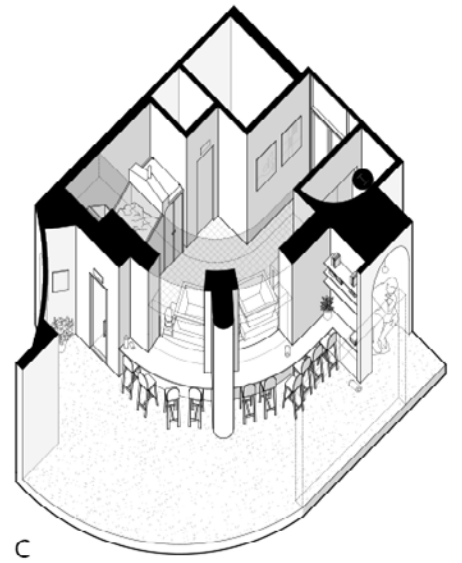
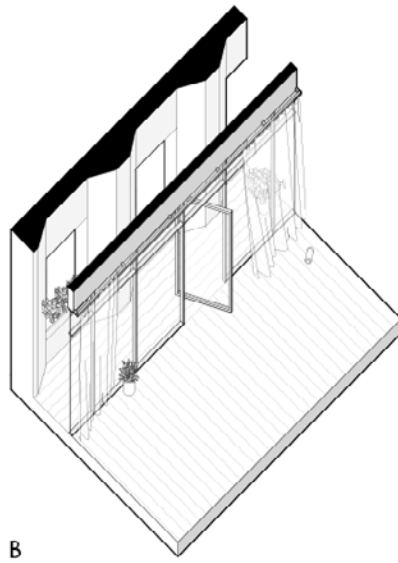
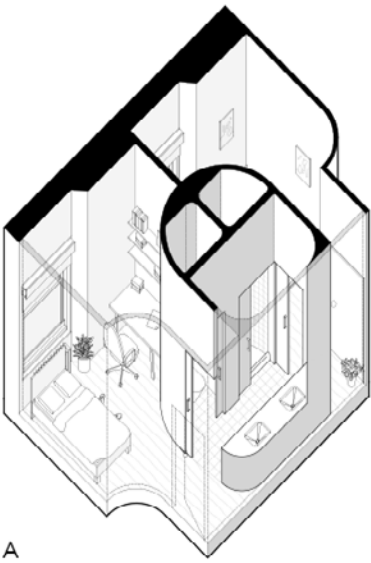
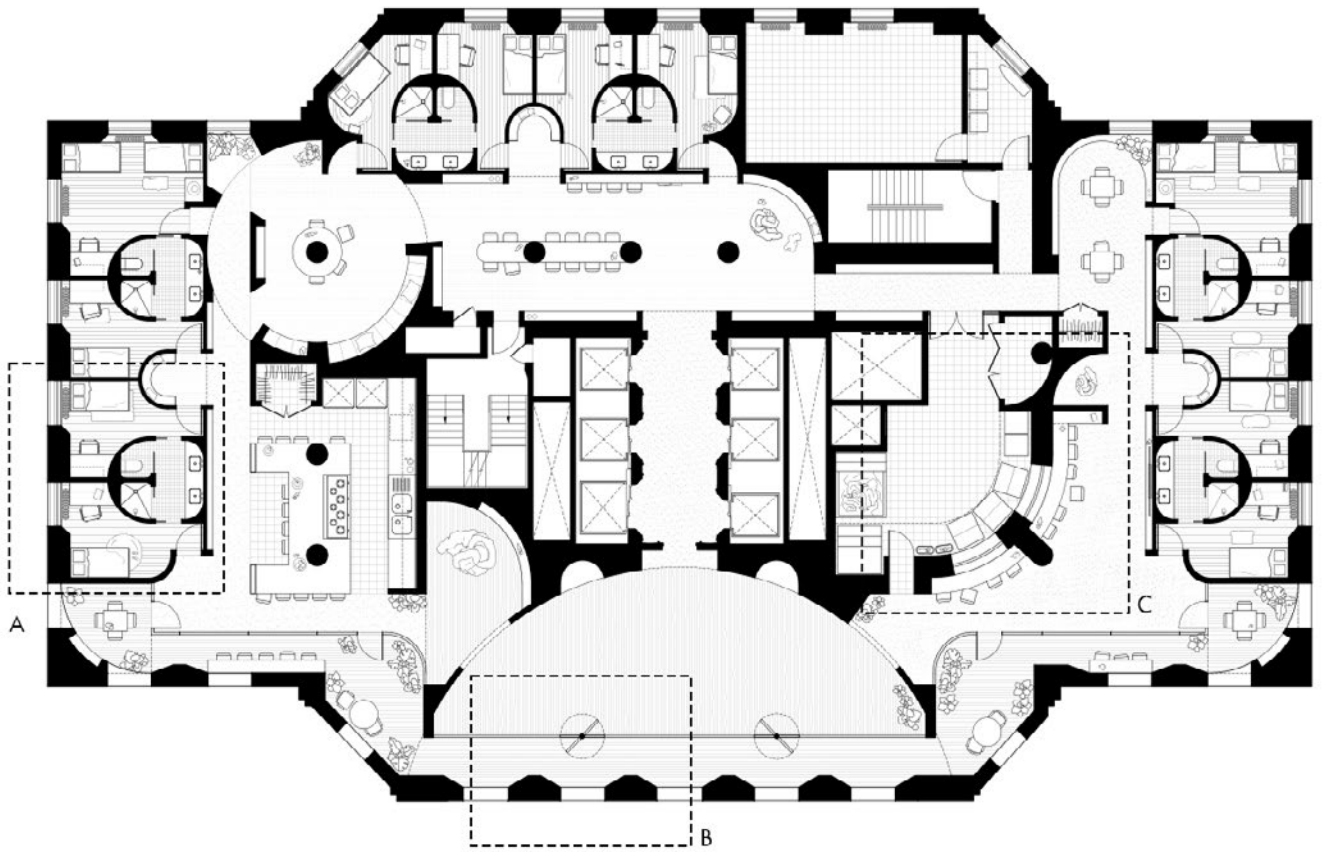
ME, A&D Summer Semester
 A&D 7111 Design 4
 Architecture + Urbanism + Criticism + Representation
 Instructor: David Aron
 Students: Cuiqing Wang, Haruhiko Juhara, Cheng-Yi Lu, Sarah-Grace Sankin, Matthew Wilson, Ronshika Sady-Nasir

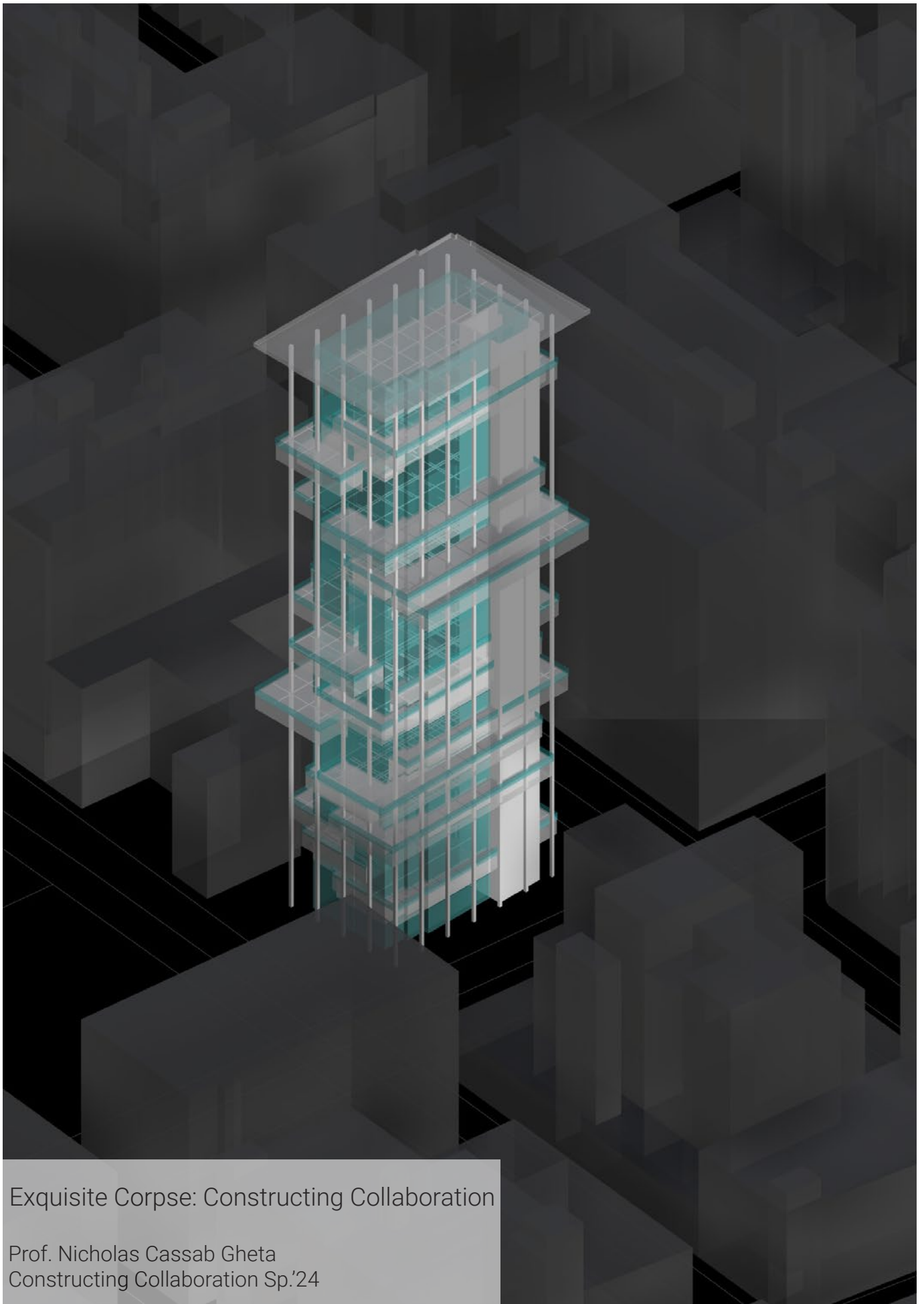
92nd Street Y - Narrative

The 92nd Street Y, initially established to serve the American Jewish community in their social and spiritual needs, has undergone various relocations in New York City - from its first official home in 1895, to its 2nd location in 1899, and to the current address of 92nd Street and Lexington in 1900. Over the years, they have become a hub for promoting individual and family development through diverse social programming and providing access to a wide range of information through their extensive catalog of speakers, however, our assessment revealed significant issues with waste management, particularly concerning common collection points located at 92nd Street. These issues present unique challenges. We also thoroughly examined the water supply network, ensuring its safety and reliability from mountain areas to 92Y. Energy efficiency emerged as a concern, primarily due to an aging insulation system and the building envelope, leading to inefficient heating and cooling. Additionally, we observed a notable gender discrepancy in the utilization of common areas, with a majority of spaces being used by men, while women's participation remained comparatively low. By identifying these underlying issues, we can foster inclusivity, partnership, and mutual respect, empowering women and men to thrive in a more equitable community. This analysis highlights the urgent need for improvements in waste management, water supply, energy efficiency, and gender inclusivity to create a hygienic, sustainable, and inclusive environment that promotes personal and community development at the 92nd Street Y residence.

A series of flexible common use different spaces of the 92NY helps to foster connections between its conventional and collaborative spaces where its members participate and collective action lies on the future. Opportunities for well-defined features of its community performance fosters a sense of shared and inclusive belonging among the members who meet and connect like the building in terms of social interaction.

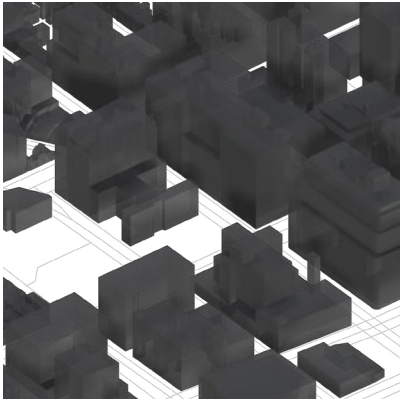




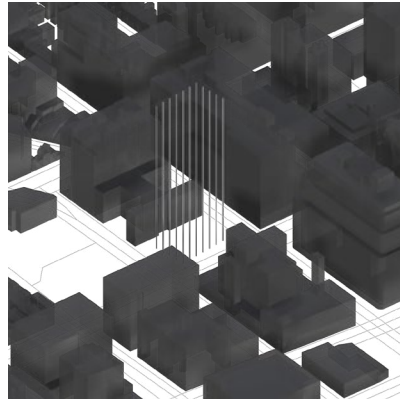


Exquisite Corpse: Constructing Collaboration

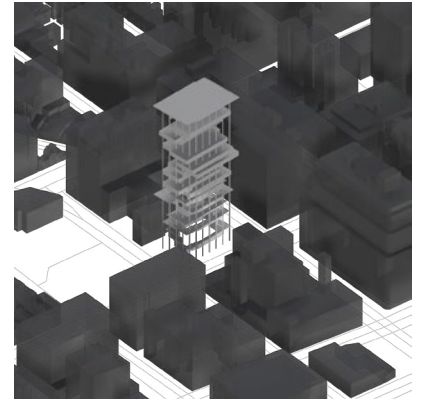
Prof. Nicholas Cassab Gheta
Constructing Collaboration Sp.'24



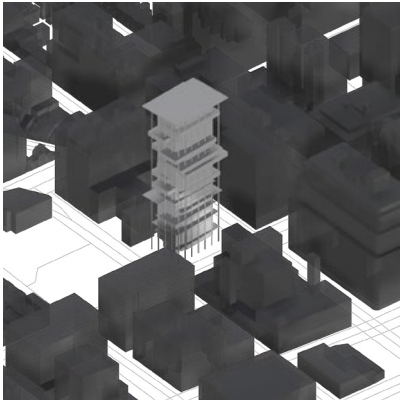
Site Massing



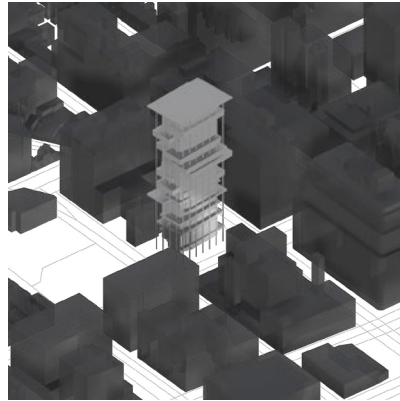
Columns



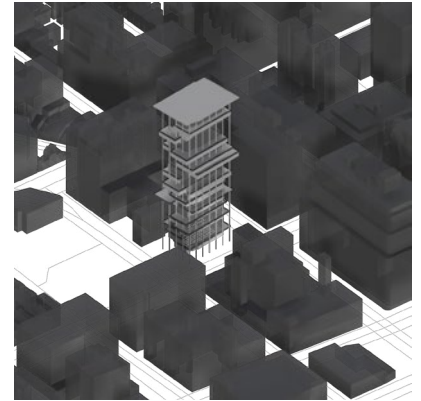
Slab and Beam Bracing



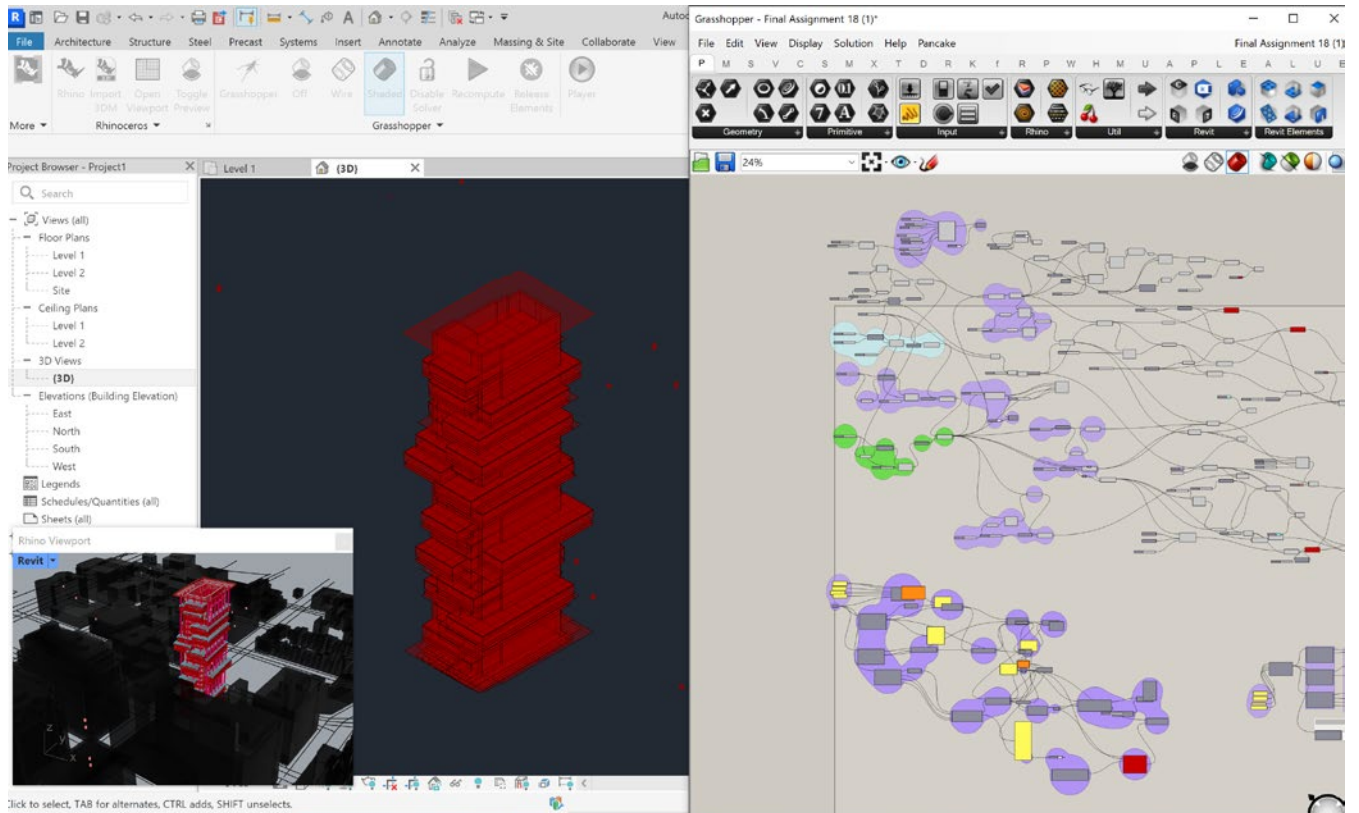
Facade



Balcony and Parapets



Exquisite Cornice

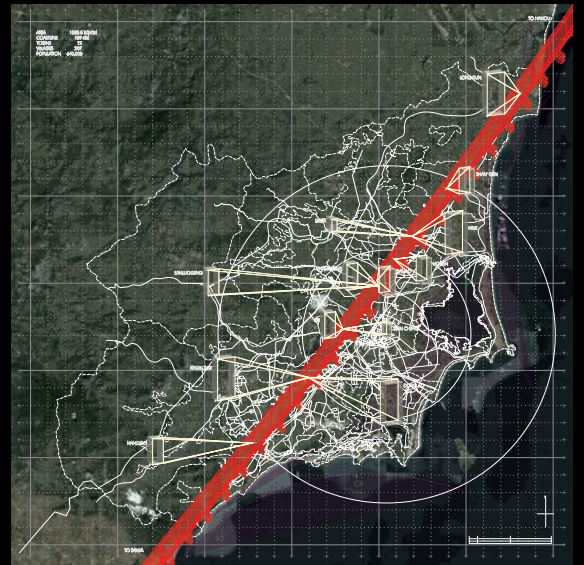


Rhino.Inside Revit using grasshopper to create parametric elements

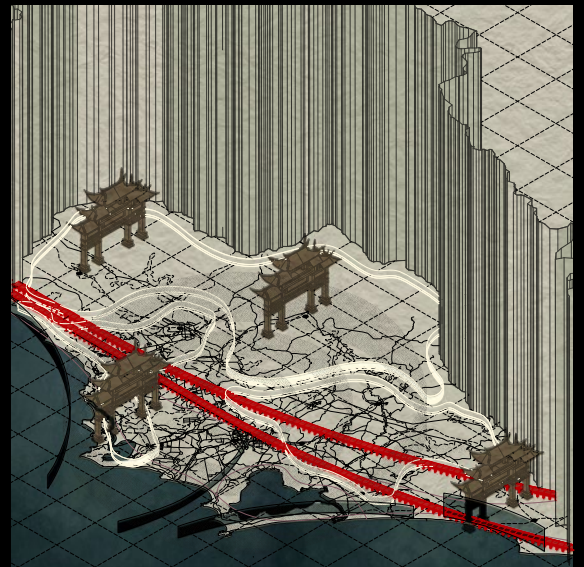
Simplicity in Motion:

A Manifesto for Wanning's Sustainable Cultural Renaissance

Nestled in the serene landscapes of Hainan Island, Wanning village has long been a haven of simplicity, deeply rooted in agricultural and aquaculture tradition. Through generations, community thrived in sync with the natural beauty surrounding it. However, the currents of prompting a significant shift from a life deeply connected to the land to the stark realities of high-rise living.



Wanning's charm lies in its simplicity. We reject the invasive influence of media projections that seek to transform our city into a spectacle. Let us preserve the essence of the island. Maintaining the Essence of the respecting its natural beauty and traditional way of life.



The spectacle leads to a profound sense of alienation and estrangement among individuals. People become passive spectators of their own lives, disconnected from genuine human experiences and emotions. The media plays a crucial role in creating and perpetuating the spectacle.





A revolutionary transformation of society that would break free from the grip of the spectacle. He advocates for the reclamation of authentic human experiences, creativity, and self-determination.

PRARTHANA JATHAR

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