

Architecture

PORTFOLIO

ABOUT.



JAFRIN SURETHA SURESH

ARCHITECT

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📍 London, United Kingdom

Jafrin Suretha Suresh AKA **Jaff** is an Architectural designer and BIM technician with a passion for Architecture, Construction, and Technology (ACT). She brings a fresh, innovative approach to design and visualization, turning creative ideas into impactful spaces.

EDUCATION

Master of Science in Advanced Construction Technology and BIM.

University of Strathclyde, Glasgow, United Kingdom.

Bachelor of Architecture with Distinction.

Sathyabama Institute of Science and Technology, TamilNadu, India.

WORK EXPERIENCE

Freelance Architect, Chennai, India.

- Led architectural projects from concept to completion, delivering client-focused designs.

Junior Intern Architect, Ruby Builders, Chennai, India.

- Assisted in conceptual designs, client presentations, and construction documentation using Revit and AutoCAD.

PROFICIENCY

| | |
|----------------------|---|
| Design Tools | AutoCAD Autodesk Revit SketchUp Rhinoceros. |
| Visualization | Lumion TwinMotion Enscape V-ray. |
| Presentation | Adobe Photoshop Adobe Indesign Adobe Illustrator. |
| MS Office | Word Excel Powerpoint |

COMPETITIONS

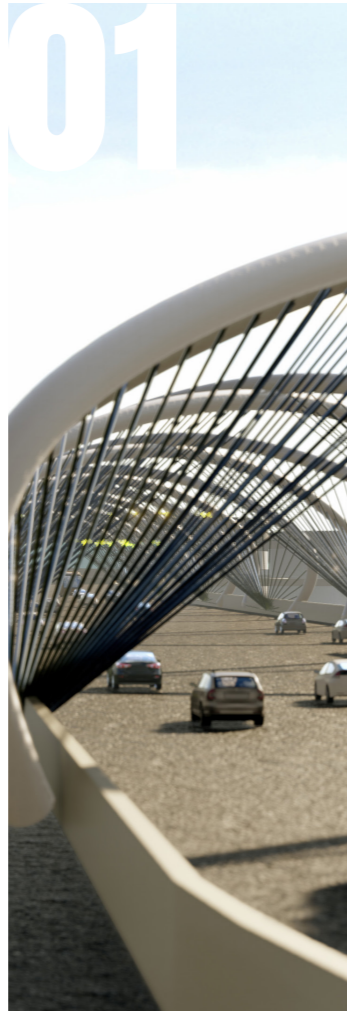
Architectural Thesis Competition.

Submitted my thesis project to prominent architectural design competitions, focusing on sustainable and community-driven spaces.

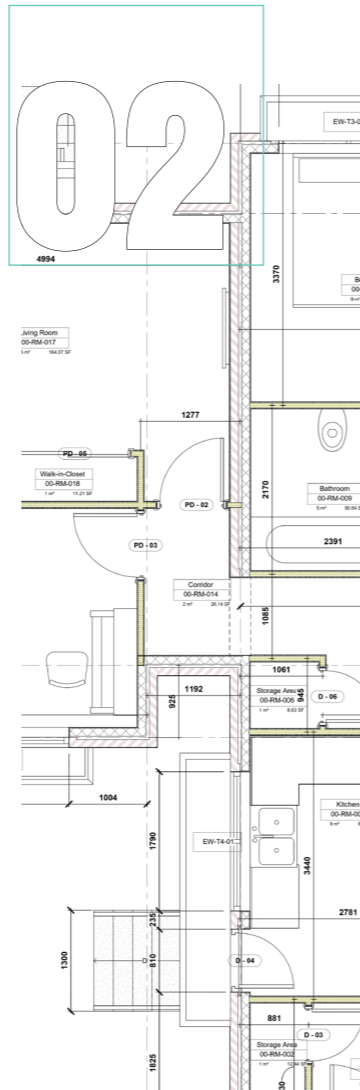
Zonal NASA Convention (ZNC).

Actively engaged in the Zonal NASA events, showcasing creative installations and designs that celebrated cultural and architectural heritage.

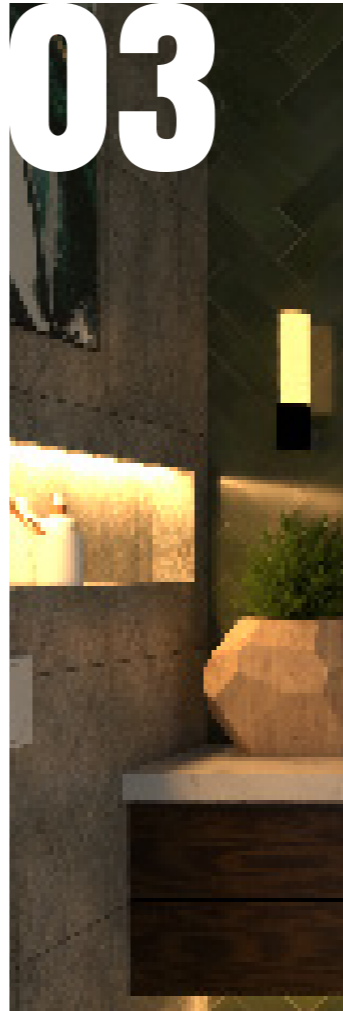
CONTENTS.



AEROVIA NEXUS
An Airport Thesis



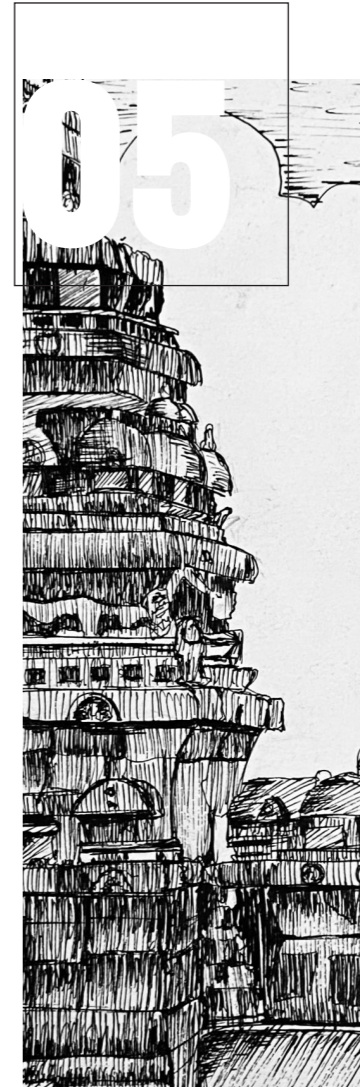
**BIM TECHNICAL
DETAILS**



HANDS ON WORK



ATRIUM NOVA
An University Campus



MIXED MEDIA



Tools Used :
Rhino, Lumion 8

01

AEROVIA NEXUS

Year : 2022

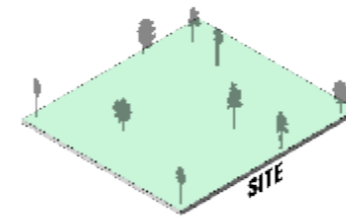
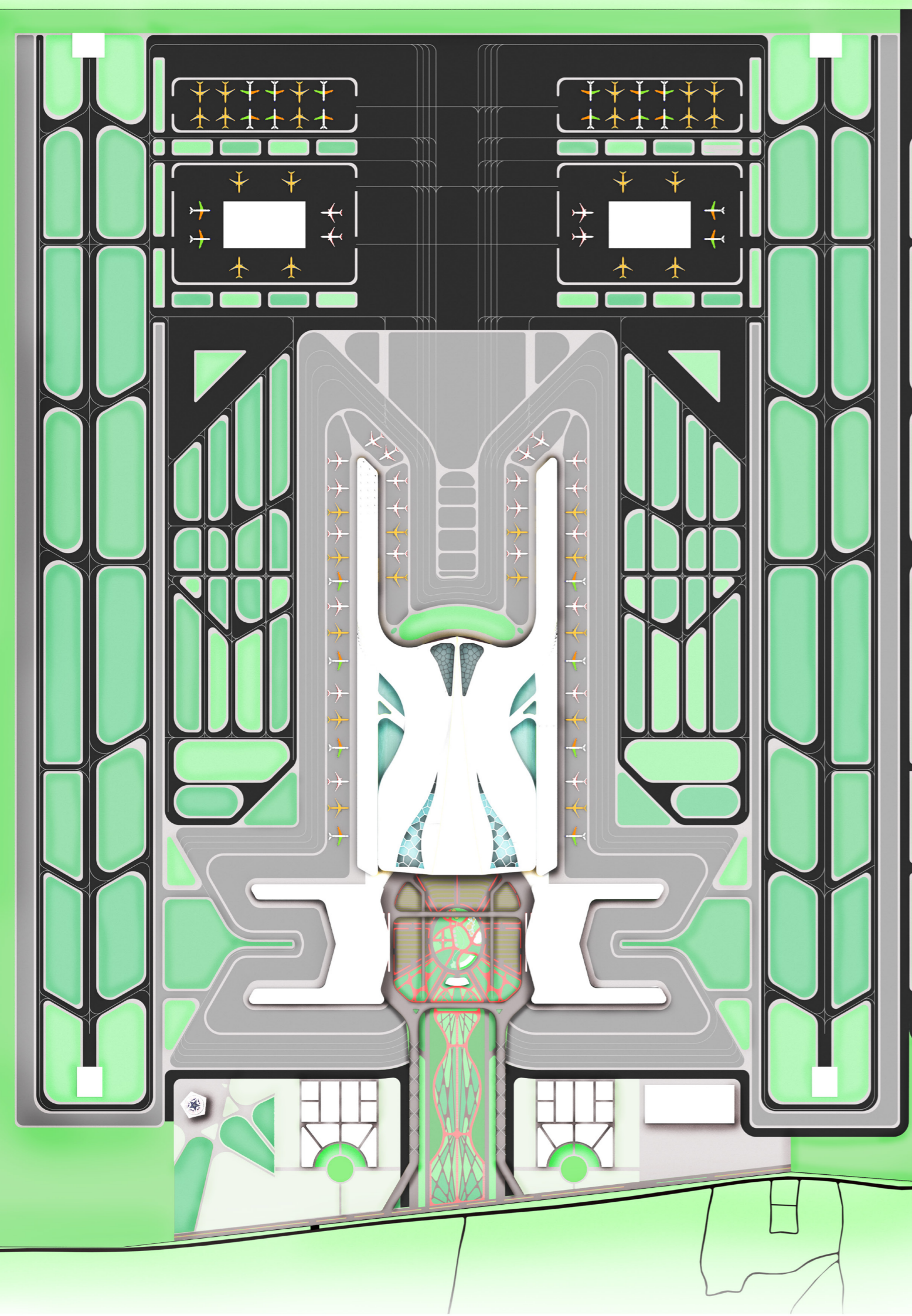
Semester : 9

Typology : Transportation and Infrastructure

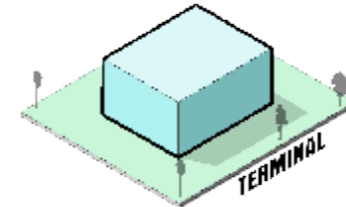
Location : Chennai, India.

The Greenfield Airport in Pannur is proposed to address Chennai's rising air traffic demands, as the existing airport has reached capacity and cannot expand further due to urban constraints. Pannur offers ample space, better connectivity, and opportunities for sustainable infrastructure.

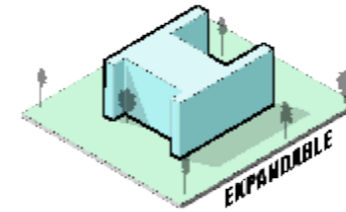
This project aims to decongest Chennai, boost regional connectivity, and support economic growth, ensuring the city's long-term aviation and development needs are met.



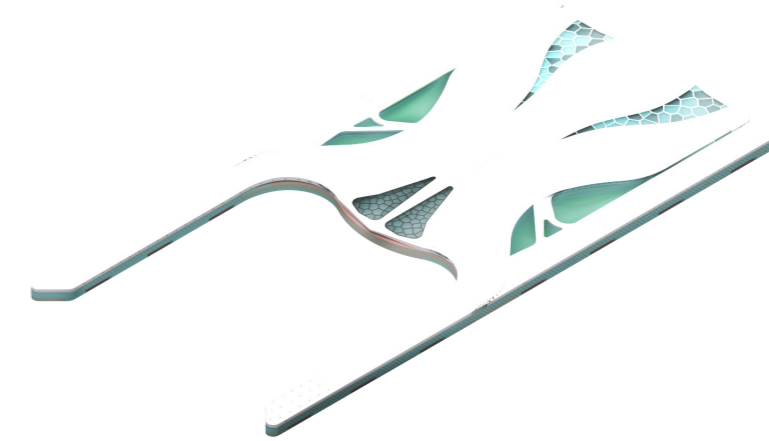
The site establishes the foundation, responding to natural context, orientation, and topography, laying the groundwork for an integrated architectural response.



A pure volumetric form is introduced, reflecting a functional program and maximizing efficiency while aligning with the site's geometry.

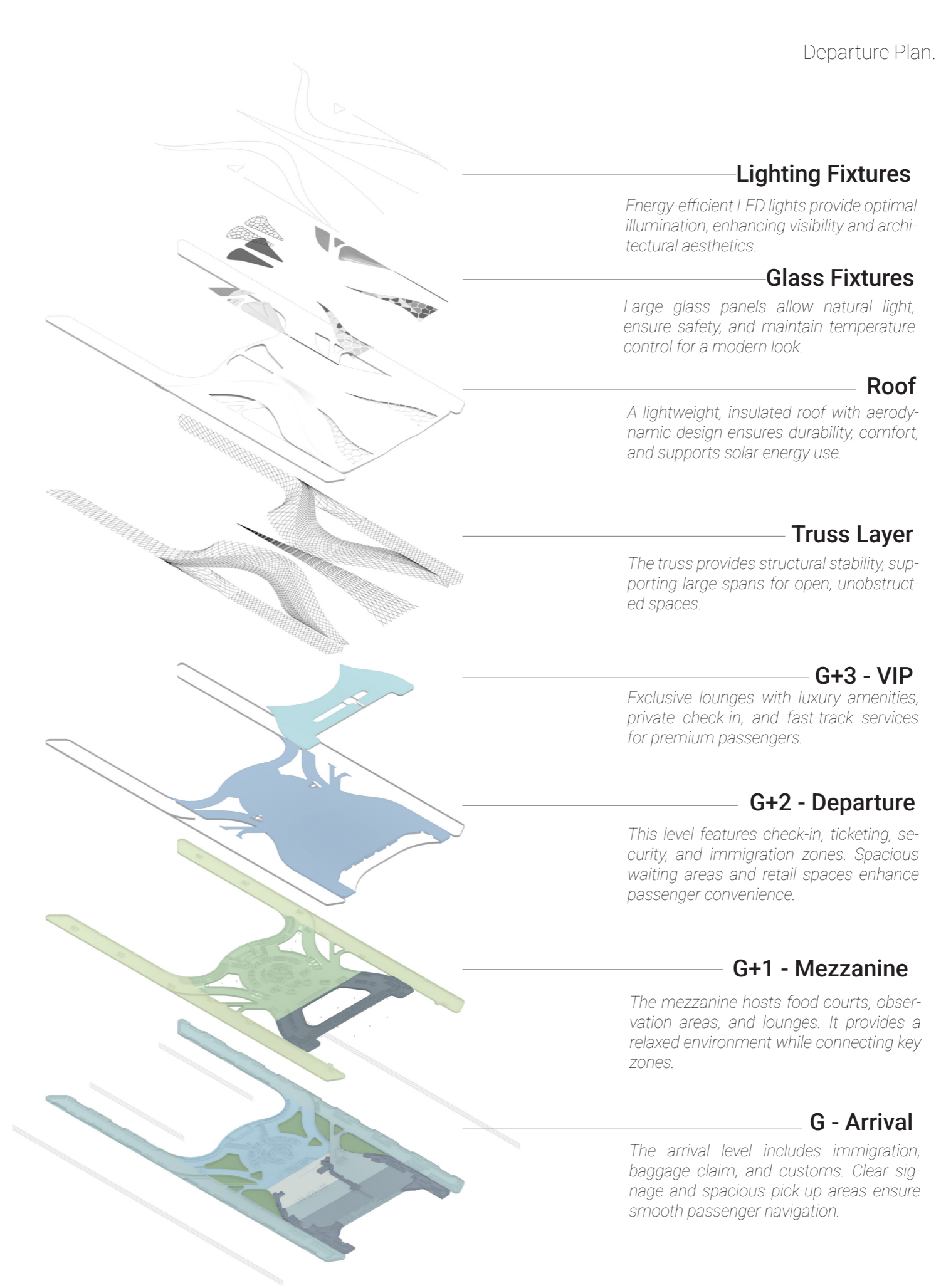
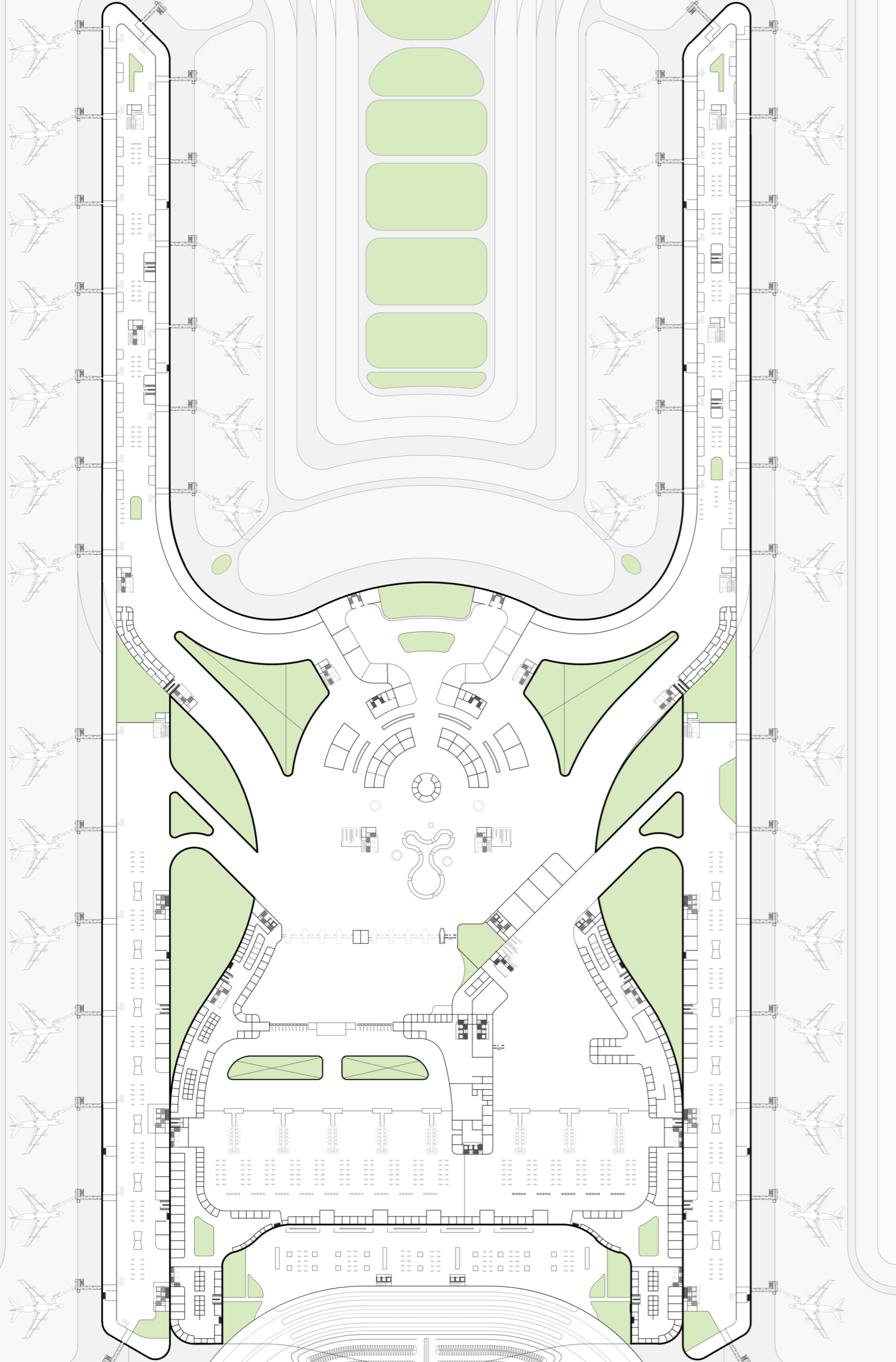


The form is sculpted to introduce circulation flows, optimize natural light penetration, and create a dynamic interface between interior and exterior spaces.



The airport design is inspired by a balance of functionality and aesthetics, with a form derived from fluid, aerodynamic shapes symbolizing movement and connectivity.

The structure incorporates a steel framework for durability and flexibility, complemented by large-span roofs and glass facades to allow natural light and create a sense of openness.



Lighting Fixtures

Energy-efficient LED lights provide optimal illumination, enhancing visibility and architectural aesthetics.

Glass Fixtures

Large glass panels allow natural light, ensure safety, and maintain temperature control for a modern look.

Roof

A lightweight, insulated roof with aerodynamic design ensures durability, comfort, and supports solar energy use.

Truss Layer

The truss provides structural stability, supporting large spans for open, unobstructed spaces.

G+3 - VIP

Exclusive lounges with luxury amenities, private check-in, and fast-track services for premium passengers.

G+2 - Departure

This level features check-in, ticketing, security, and immigration zones. Spacious waiting areas and retail spaces enhance passenger convenience.

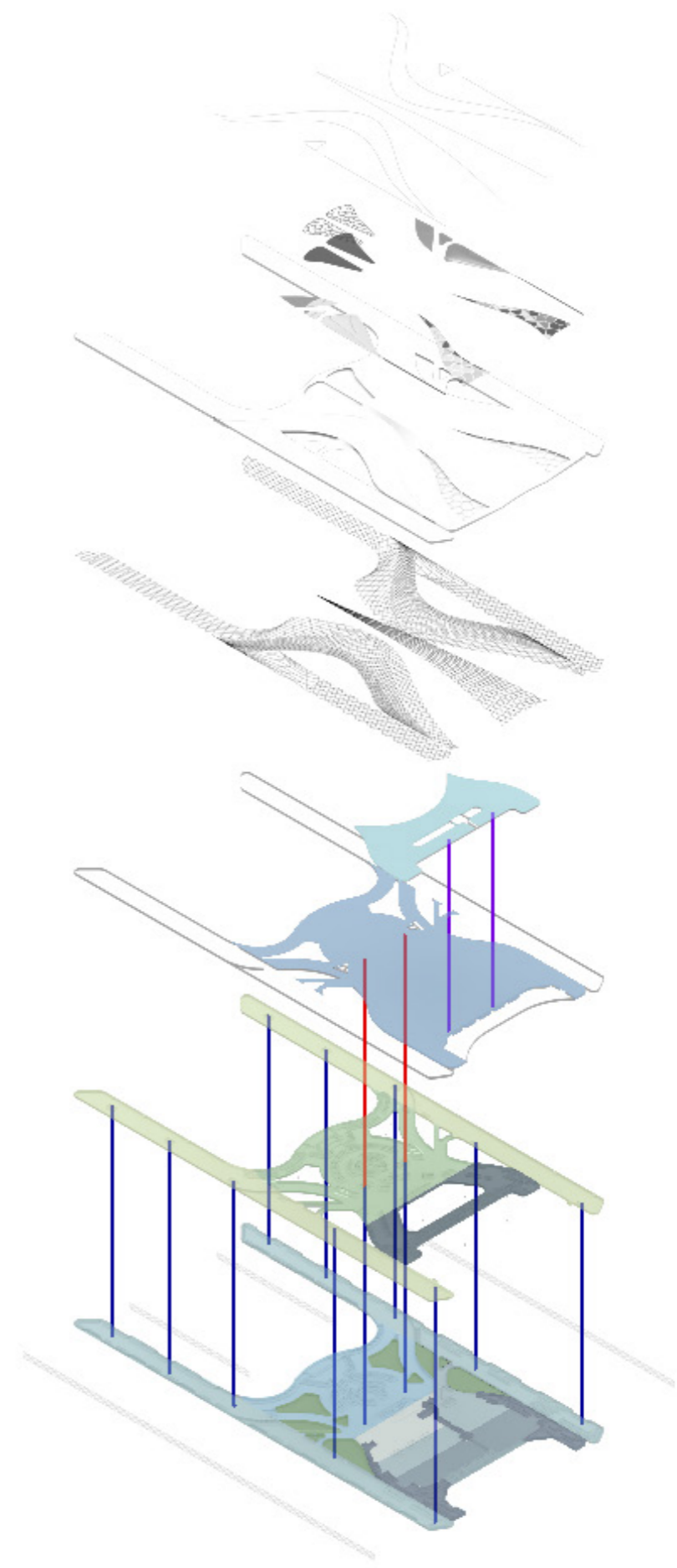
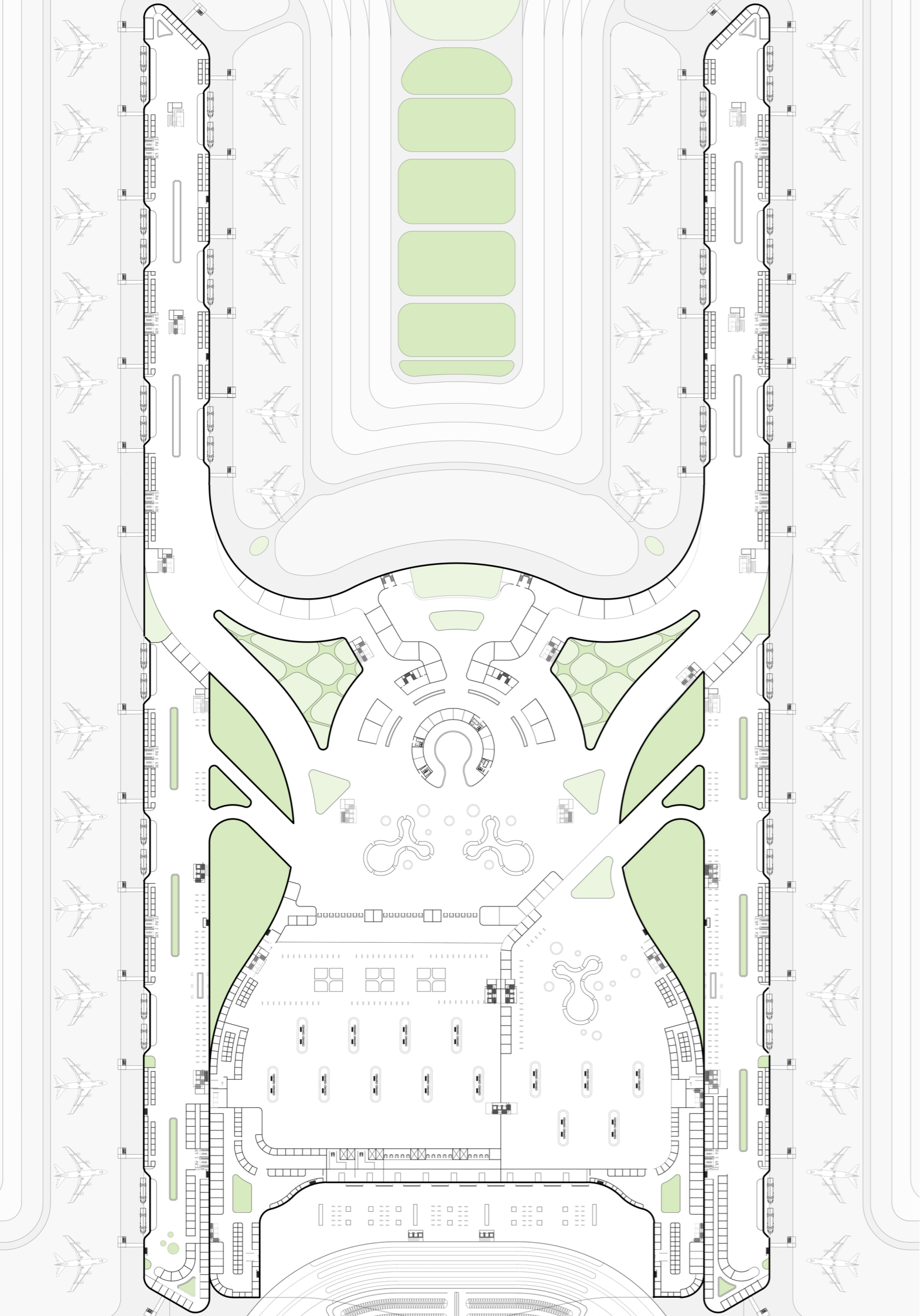
G+1 - Mezzanine

The mezzanine hosts food courts, observation areas, and lounges. It provides a relaxed environment while connecting key zones.

G - Arrival

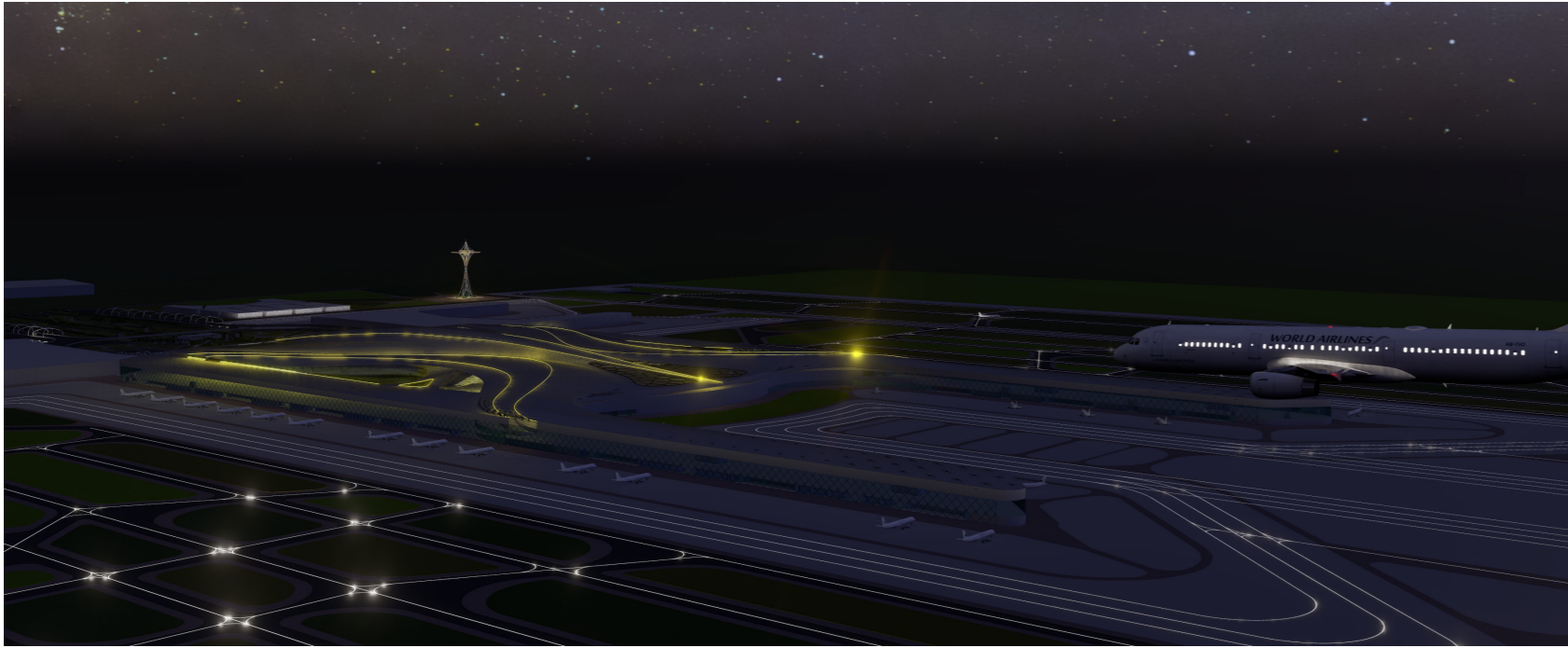
The arrival level includes immigration, baggage claim, and customs. Clear signage and spacious pick-up areas ensure smooth passenger navigation.

Exploded View of International Terminal.



- Air Access
- Main Building Access
- Air Bus Access

Circulation Plan.



A MODERN GATEWAY: DESIGNED FOR EFFICIENCY AND SUSTAINABILITY

The airport is designed to handle a capacity of *30 million passengers annually*, with the ability to accommodate *12,000 passengers during peak hours*. It supports *500 daily flight* operations, with multiple gates and runways ensuring seamless connectivity for domestic and international flights. The terminal houses *70 offices* for airline operations, airport management, and other support services, alongside *100 retail outlets and 30 dining spaces*, offering a well-rounded experience for travelers.

Sustainable features such as solar panels, green roofs, and rainwater harvesting systems are integrated to minimize environmental impact. Additionally, the airport provides parking for *10,000 vehicles* and boasts efficient cargo handling facilities capable of processing *600,000 tons of cargo annually*, making it a hub for both passenger and logistics services.



Tools Used :
Rhino; Lumion 8



Tools Used :
Rhino, Lumion 8



02 BIM TECHNICAL DETAILS

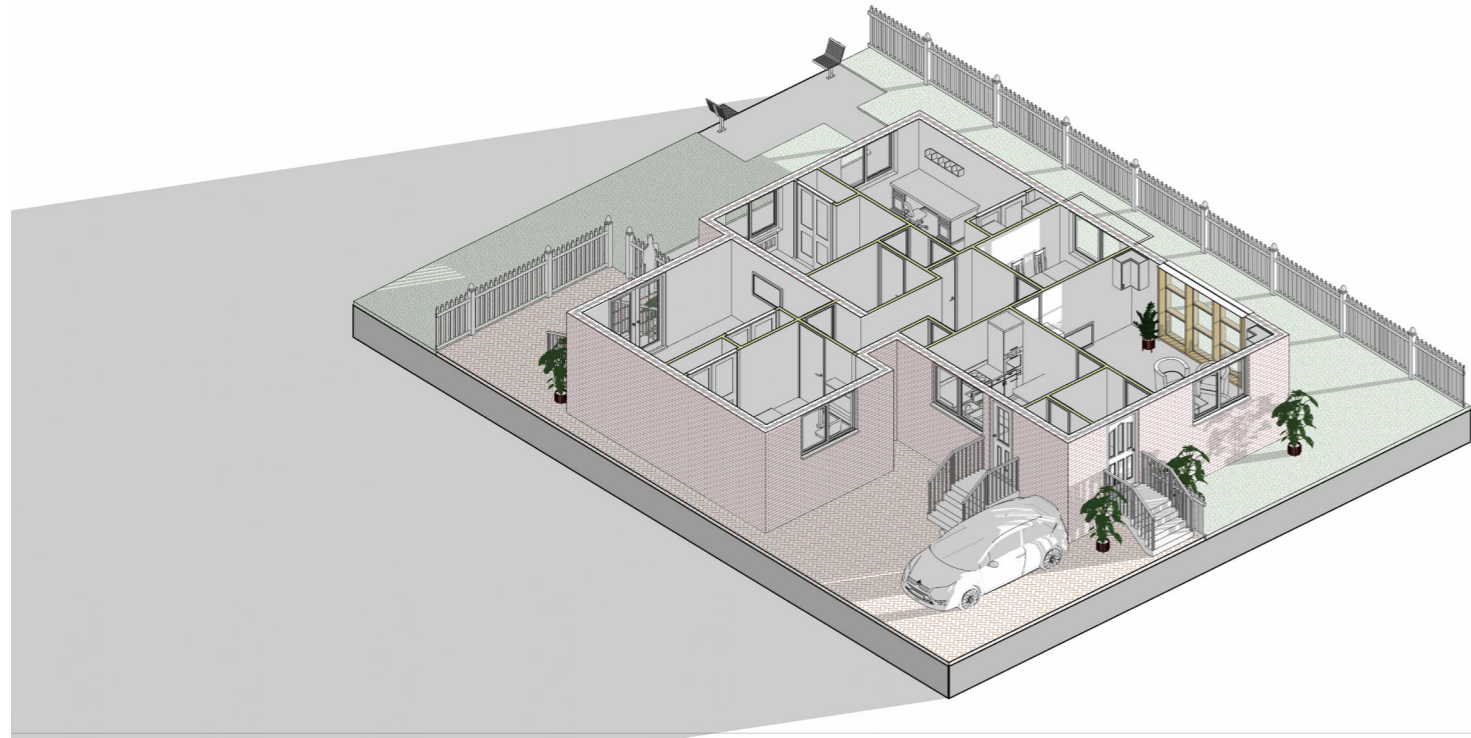
Year : 2024
Semester : 1
Typology : Extension Proposal.
Location : Glasgow, Scotland.

As part of my master's program, I developed this extension proposal to showcase my expertise in architectural design and Building Information Modeling (BIM) techniques. This project features a comprehensive 2D floor plan, 3D visualizations, and sectional drawings, highlighting efficient space planning, structural integration, and thoughtful material selection.

The design process emphasized functionality and aesthetic cohesion, while leveraging BIM tools to streamline workflows and ensure precision. This project not only demonstrates my technical skills but also reflects my ability to represent architectural concepts effectively and adapt them to practical applications.

EXTENSION PROPOSAL

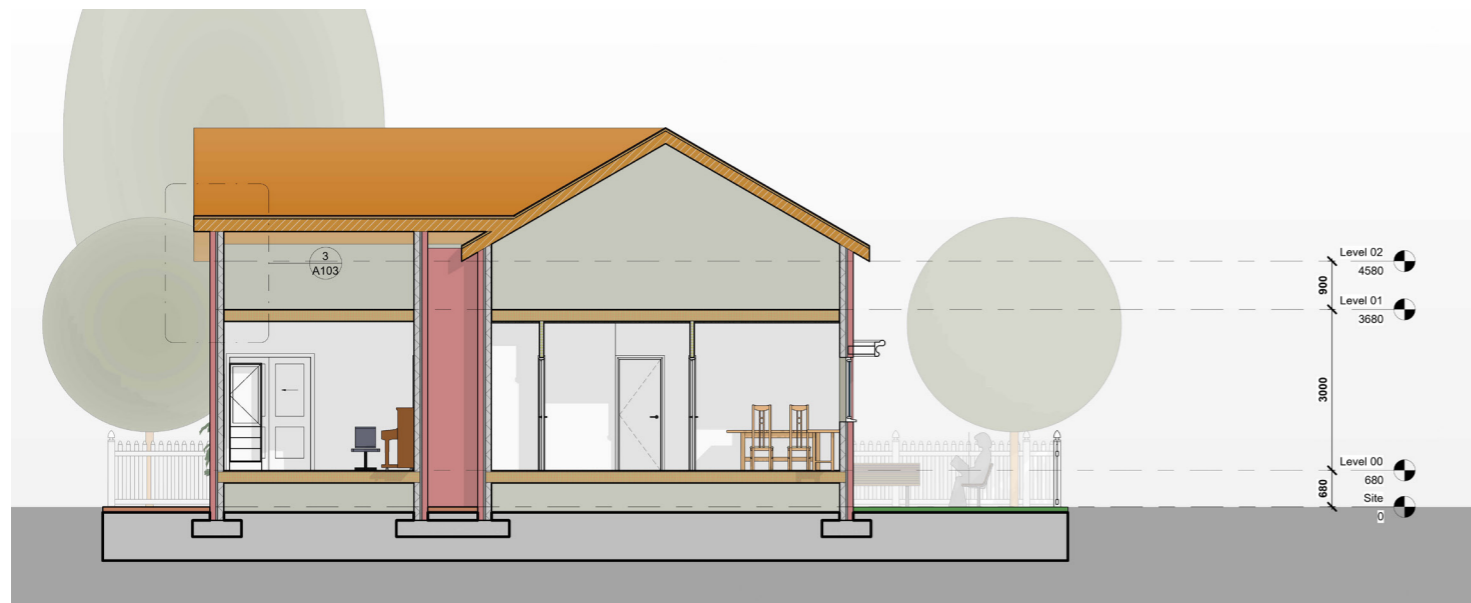
As part of my master's program, I created this extension proposal to demonstrate my skills in architectural design and BIM techniques. The project includes a detailed 2D floor plan, 3D visualization, and sectional drawings, showcasing efficient space planning, structural integration, and material considerations. This work allowed me to apply BIM tools to design a functional and visually cohesive extension while gaining practical experience in architectural representation.



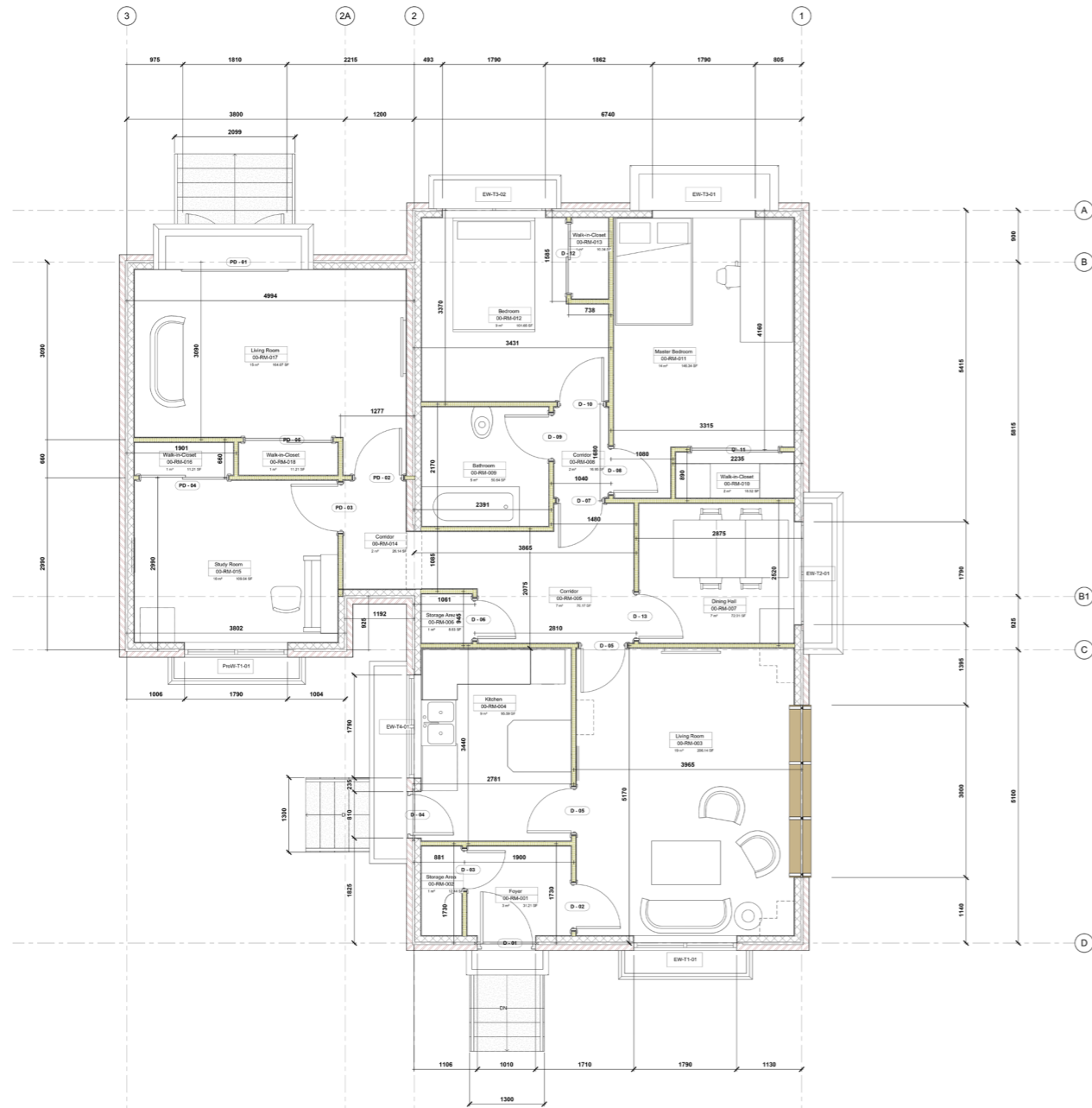
Isometric Cut Section.



Colour Coded Plan.



Sections.



Floor Plan with Dimensions.

| Type Mark | Family and Type | Height | Width | Level | Cost | Count | Head Height | Manufacturer |
|-----------|--|--------|-------|----------|--------|-------|-------------|--------------|
| 49 | Doors_IntSgl: UoS_Door_IntSgl_900x2110mm | 2110 | 900 | Level 00 | 220.00 | 2 | 2110 | SCDoors |
| 59 | Door-Opening: Opening 1000mm | 0 | 0 | Level 00 | | 1 | 0 | |
| 93 | M_Door-Interior-Double-Sliding-2_Panel-Wood: UoS_Door_IntDbiSlid_1500x2100mm | 2110 | 1500 | Level 00 | 250.00 | 3 | 2110 | BandQ |
| 94 | M_Door-Interior-Double-Sliding-2_Panel-Wood: UoS_Door_IntDbiSlid_1200x2110mm | 2110 | 1200 | Level 00 | 230.00 | 1 | 2110 | BandQ |
| 98 | Doors_ExtSgl_6: UoS_ExtSgle_Main_910mmx2110mm | 2110 | 1010 | Level 00 | | 1 | 2110 | |
| 99 | Doors_ExtSgl_w-Glazing_Bars_2: UoS_ExtSgl_Kitchen_810x2110mm | 2110 | 810 | Level 00 | | 1 | 2110 | |
| 100 | Doors_ExtDbI_w-Glazing_Bars_1: UoS_Door_ExtDbI_1810x2110mm | 2110 | 1810 | Level 00 | | 1 | 2110 | |
| 101 | Doors_IntSgl: UoS_Door_IntSgl_850x2110mm | 2110 | 850 | Level 00 | | 8 | 2110 | SCDoors |
| 102 | Doors_IntSgl: UoS_Door_IntSgl_750x2110mm | 2110 | 750 | Level 00 | | 2 | 2110 | SCDoors |

Grand total: 20

| Room Schedule | | | | | |
|---------------|----------------|----------|-------|-----------|-------------------|
| Number | Name | Level | Count | Perimeter | Area |
| 00-RM-001 | Foyer | Level 00 | 1 | 7000 | 3 m ² |
| 00-RM-002 | Storage Area | Level 00 | 1 | 4553 | 1 m ² |
| 00-RM-003 | Living Room | Level 00 | 1 | 18830 | 19 m ² |
| 00-RM-004 | Kitchen | Level 00 | 1 | 12183 | 9 m ² |
| 00-RM-005 | Corridor | Level 00 | 1 | 12523 | 7 m ² |
| 00-RM-006 | Storage Area | Level 00 | 1 | 3753 | 1 m ² |
| 00-RM-007 | Dining Hall | Level 00 | 1 | 10530 | 7 m ² |
| 00-RM-008 | Corridor | Level 00 | 1 | 5180 | 2 m ² |
| 00-RM-009 | Bathroom | Level 00 | 1 | 8913 | 5 m ² |
| 00-RM-011 | Master Bedroom | Level 00 | 1 | 16270 | 14 m ² |

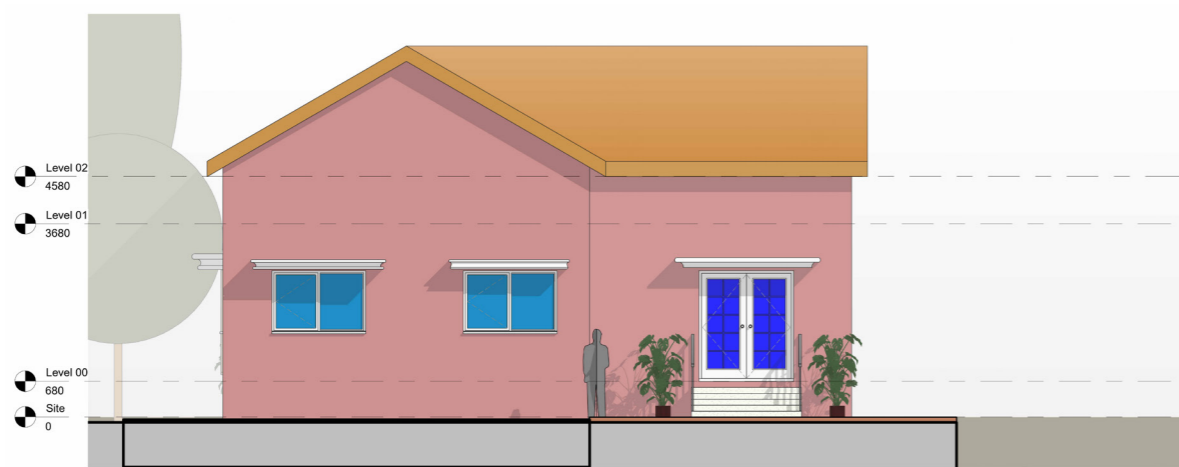
| Room Schedule | | | | | |
|---------------|----------------|----------|-------|-----------|-------------------|
| Number | Name | Level | Count | Perimeter | Area |
| 00-RM-010 | Walk-in-Closet | Level 00 | 1 | 5990 | 2 m ² |
| 00-RM-012 | Bedroom | Level 00 | 1 | 13343 | 9 m ² |
| 00-RM-013 | Walk-in-Closet | Level 00 | 1 | 4379 | 1 m ² |
| 00-RM-014 | Corridor | Level 00 | 1 | 6423 | 2 m ² |
| 00-RM-015 | Study Room | Level 00 | 1 | 12914 | 10 m ² |
| 00-RM-017 | Living Room | Level 00 | 1 | 17228 | 15 m ² |
| 00-RM-018 | Walk-in-Closet | Level 00 | 1 | 4692 | 1 m ² |
| 00-RM-016 | Walk-in-Closet | Level 00 | 1 | 4862 | 1 m ² |

| View List | | | | | |
|---------------|----------------|-------------|----|--------------|----------------------------|
| View Name | Title on Sheet | Scale Value | 1: | Sheet Number | Family and Type |
| North | | 50 | | A105 | Elevation: 12mm Circle |
| East | | 50 | | A105 | Elevation: 12mm Circle |
| South | | 50 | | A105 | Elevation: 12mm Circle |
| West | | 50 | | A105 | Elevation: 12mm Circle |
| Site | | 50 | | | Floor Plan: Floor Plan |
| (3D) | | 50 | | | 3D View: 3D View |
| Level 00 | | 25 | | | Floor Plan: Floor Plan |
| Level 00 | | 100 | | | Ceiling Plan: Ceiling Plan |
| Starting View | | 50 | | | 3D View: 3D View |
| Level 02 | | 50 | | | Floor Plan: Floor Plan |
| Level 02 | | 50 | | | Ceiling Plan: Ceiling Plan |

| View List | | | | | |
|--------------------|----------------|-------------|----|--------------|----------------------------------|
| View Name | Title on Sheet | Scale Value | 1: | Sheet Number | Family and Type |
| Level 02 | | 50 | | | Structural Plan: Structural Plan |
| Level 01 | | 50 | | | Floor Plan: Floor Plan |
| Level 01 | | 50 | | | Ceiling Plan: Ceiling Plan |
| Level 01 | | 50 | | | Structural Plan: Structural Plan |
| Section 1 | | 50 | | A103 | Section: Building Section |
| Section 2 | | 50 | | A103 | Section: Building Section |
| Room Legends | | 25 | | | Floor Plan: Floor Plan |
| Level 00 Plan Only | | 50 | | A101 | Floor Plan: Floor Plan |
| KeyPlan | | 250 | | A101 | Floor Plan: Floor Plan |

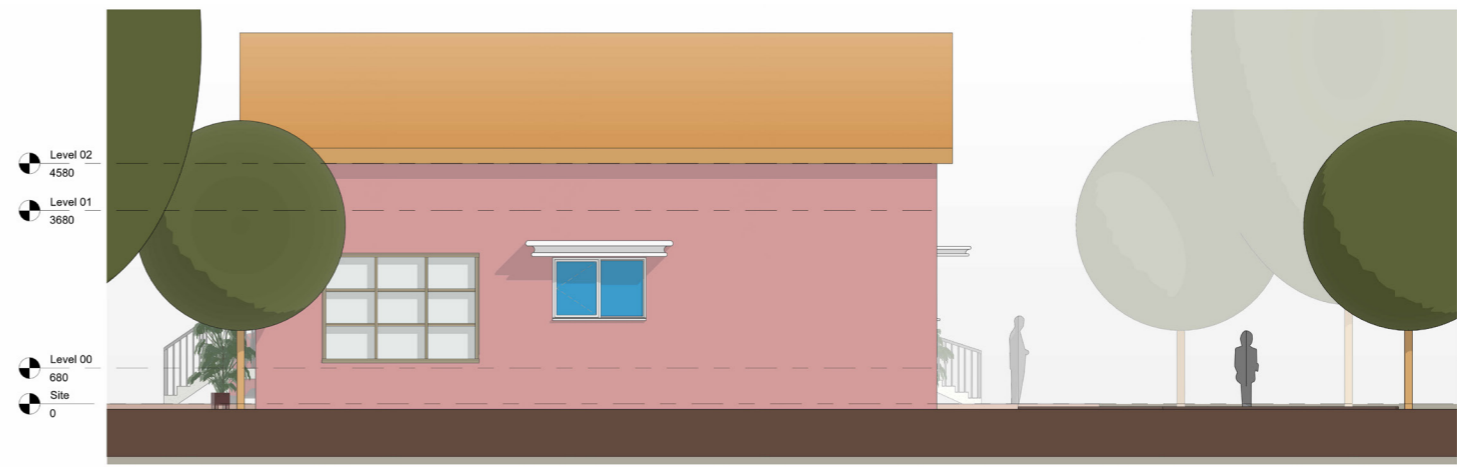
| Window Schedule | | | | | | | |
|---------------------------|--|--------|-------|----------|-------------|-------|--------|
| Family | Family and Type | Height | Width | Level | Sill Height | Count | Cost |
| Windows_Concept_Plain_DbI | Windows_Concept_Plain_DbI: UoS_Win_1790x1200mm | 1200 | 1790 | Level 00 | 910 | 1 | 600.00 |
| Windows_Concept_Plain_DbI | Windows_Concept_Plain_DbI: UoS_Win_1790x1200mm | 1200 | 1790 | Level 00 | 910 | 1 | 600.00 |
| Windows_Concept_Plain_DbI | Windows_Concept_Plain_DbI: UoS_Win_1790x1200mm | 1200 | 1790 | Level 00 | 910 | 1 | 600.00 |
| Windows_Concept_Plain_DbI | Windows_Concept_Plain_DbI: UoS_Win_1790x1200mm | 1200 | 1790 | Level 00 | 910 | 1 | 600.00 |
| Windows_Concept_Plain_DbI | Windows_Concept_Plain_DbI: UoS_Win_1790x1200mm | 1200 | 1790 | Level 00 | 910 | 1 | 600.00 |
| Windows_Concept_Plain_DbI | Windows_Concept_Plain_DbI: UoS_Win_1790x1200mm | 1200 | 1790 | Level 00 | 910 | 1 | 600.00 |

Windows, Rooms and Door Schedules.



1 North
1: 50

North Elevation.



2 East
1: 50

East Elevation.



Tools Used :
Sketchup, V-Ray.

03 HANDS-ON WORK

Year : 2023
Typology : Interiors
Location : Chennai, TamilNadu, India.

As part of my design journey, I worked on creating detailed interior renders, focusing on spaces like bathrooms and living halls. My goal was to design interiors that are not only functional but also visually appealing, with a strong emphasis on material selection, lighting, and spatial harmony.

I paid close attention to every detail, ensuring that each render captured the essence of comfort and style while maintaining a balance between practicality and aesthetics. By leveraging advanced rendering tools, I was able to bring these spaces to life with photo realistic quality, showcasing the interplay of textures, colors, and forms.



Tools Used :
Sketchup, V-Ray.

During my internship at Ruby Builders India, I worked on creating realistic interior renders for spaces like bathrooms and living rooms. My focus was on designing interiors that combined functionality and aesthetics, with a strong emphasis on material selection, lighting, and spatial harmony.

Using SketchUp for modeling and V-Ray for rendering, I produced photorealistic visuals that captured the essence of comfort, style, and practicality. This experience allowed me to refine my skills and gain hands-on knowledge in modern interior design.



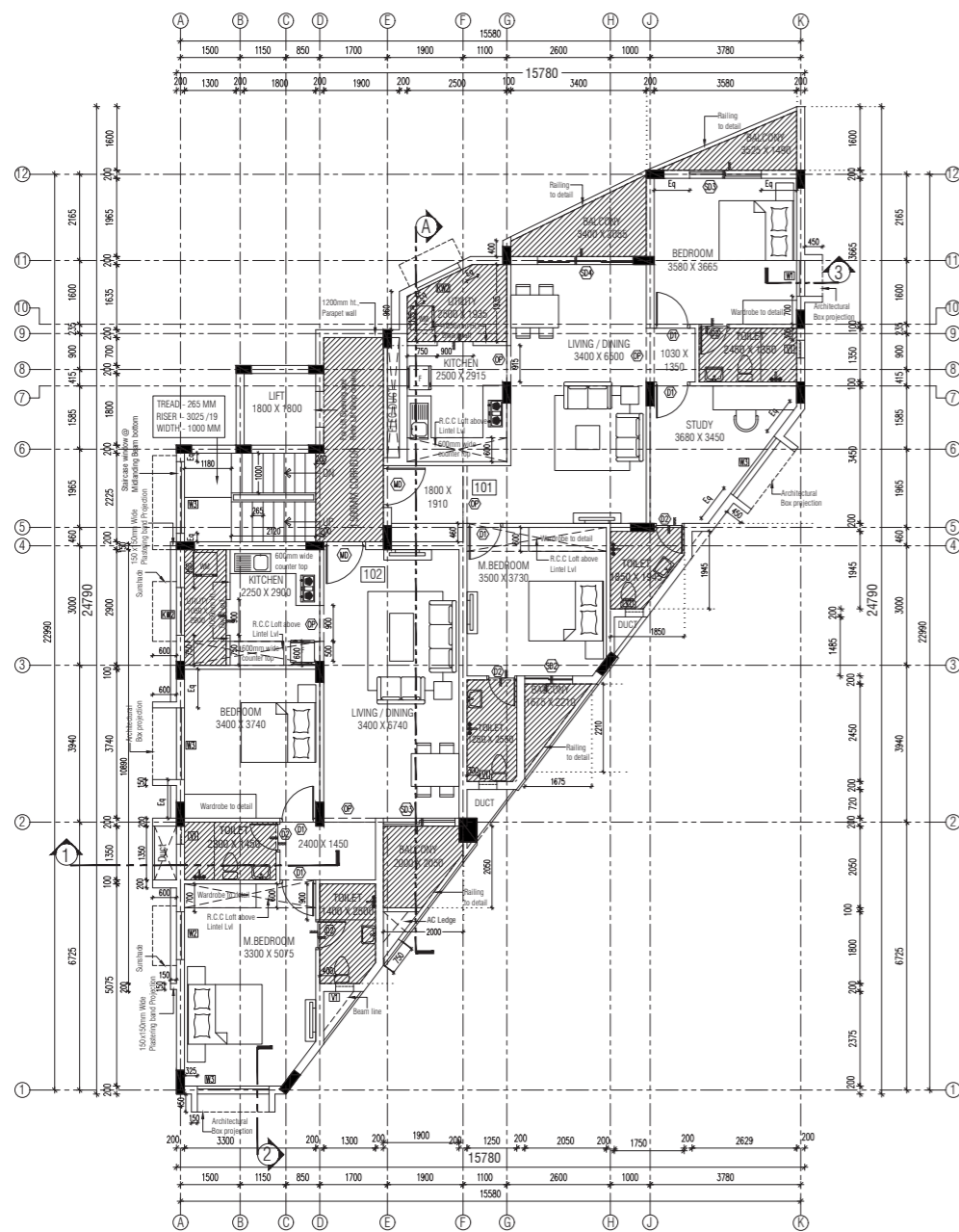
Living Room for a Client in India.

*Tools Used :
Sketchup, V-Ray.*

WORKING DRAWINGS

During my internship as an architectural intern, I was actively involved in creating detailed working drawings that included plans, elevations, sections, and staircase layouts. This hands-on experience significantly enhanced my understanding of structural systems, design detailing, and construction methodologies.

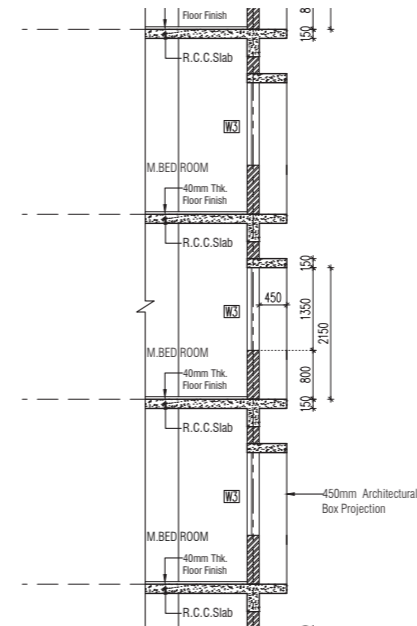
Collaborating on such technical drawings allowed me to refine my precision, improve spatial visualization, and gain practical insights into how architectural concepts transition into executable designs. This phase of my learning helped bridge the gap between academic theory and real-world application, making me more proficient in architectural drafting and design communication.



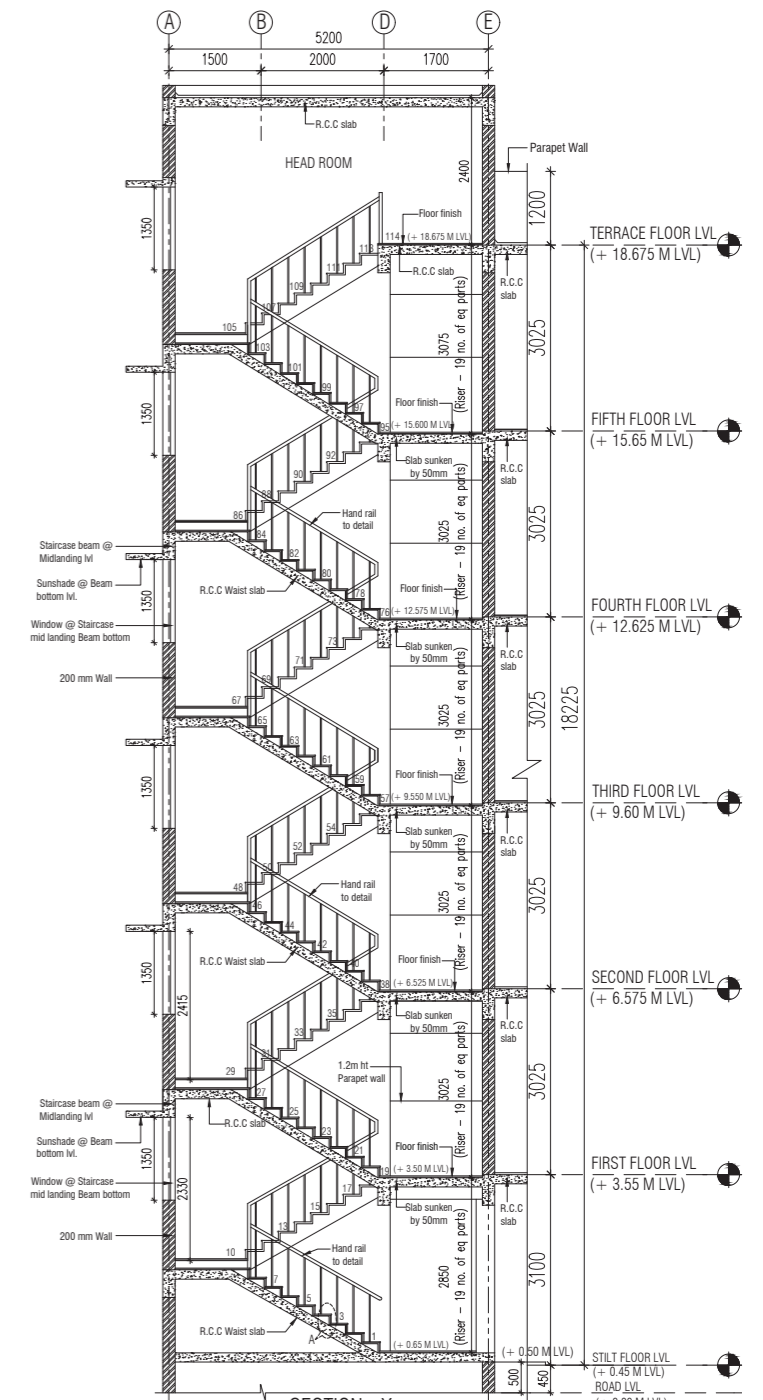
Plan.



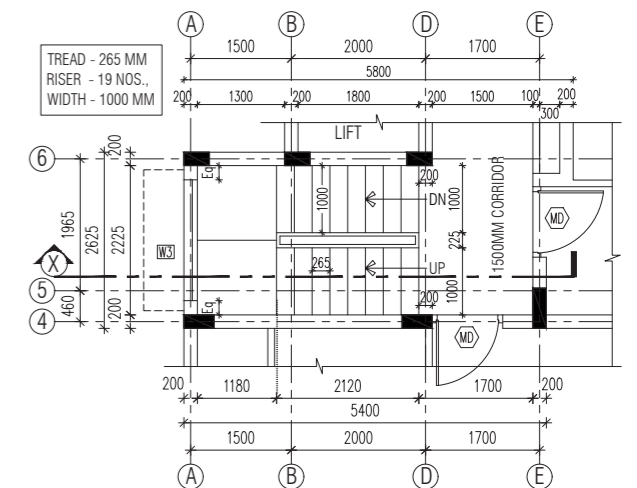
Front Elevation.



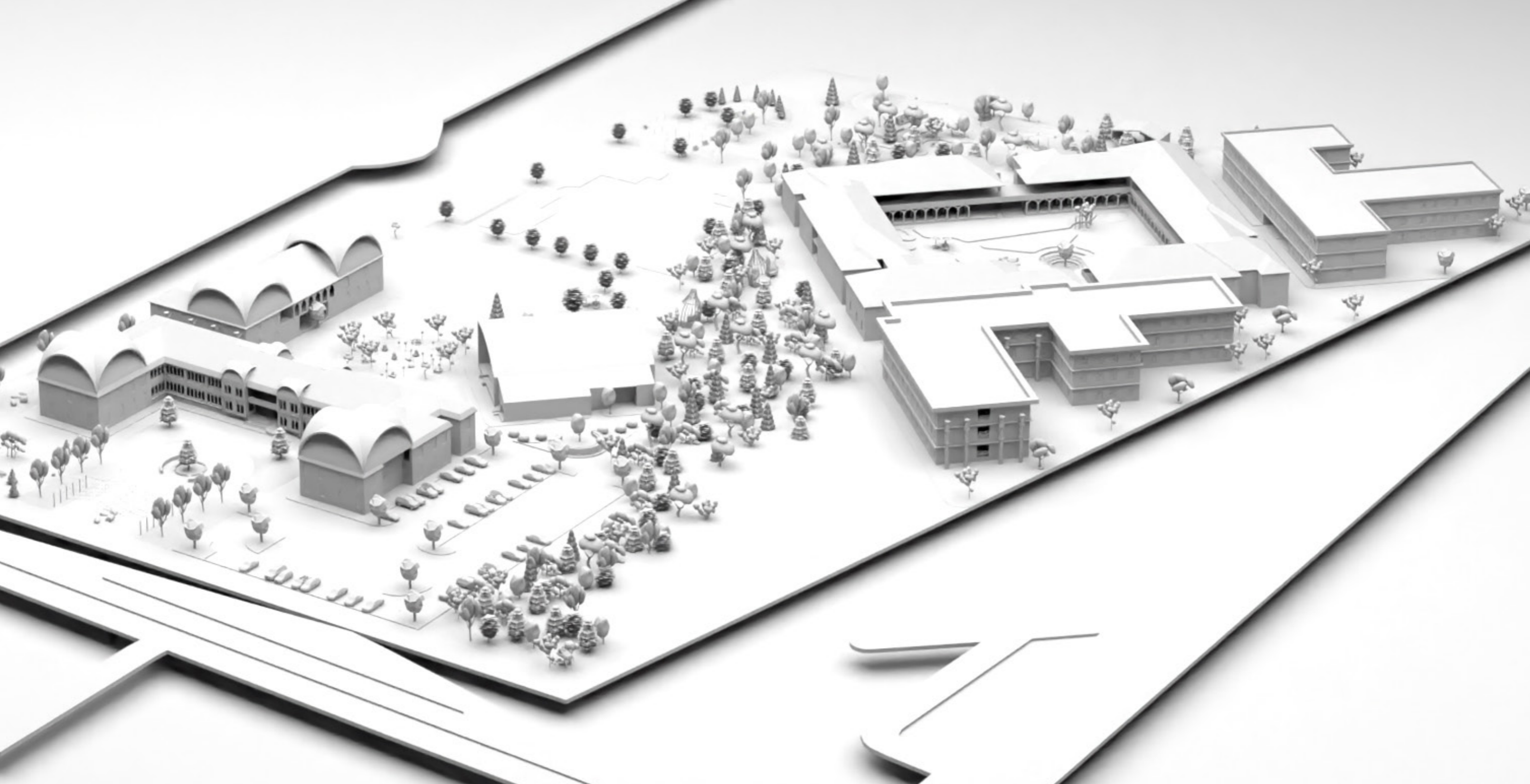
Part Section.



Staircase Elevation.



Staircase Plan.



04

ELYSIUM UNIVERSITY

Year : 2022
Semester : 8
Typology : University Campus
Location : Trichy, TamilNadu, India.

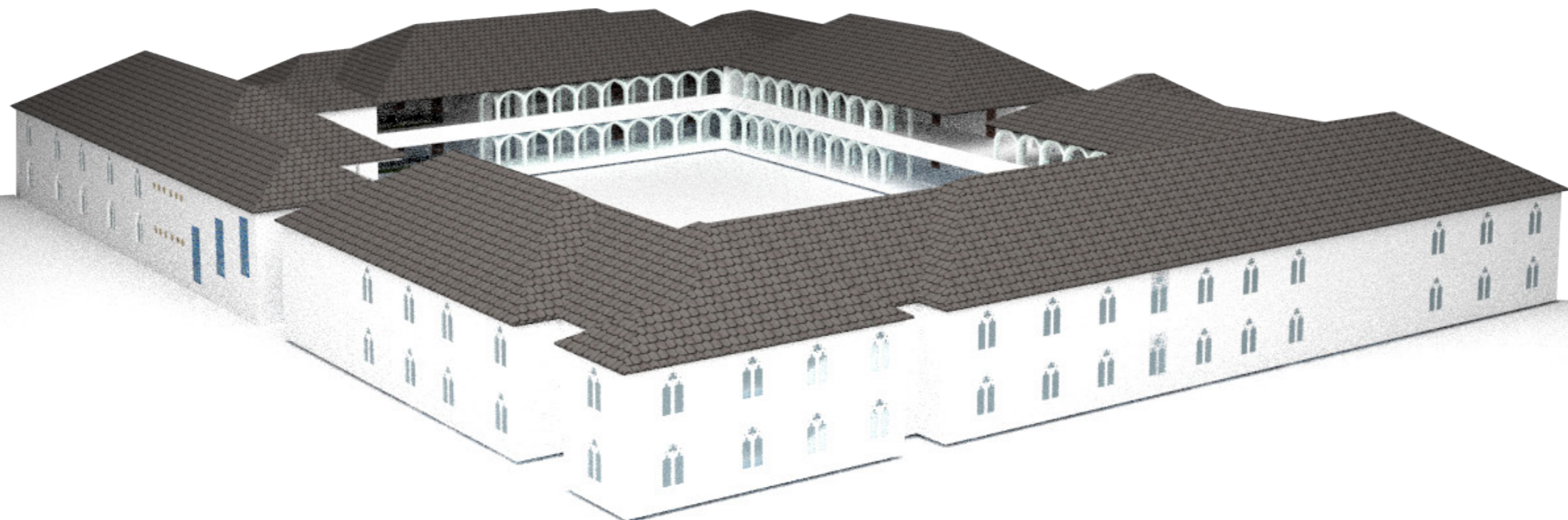
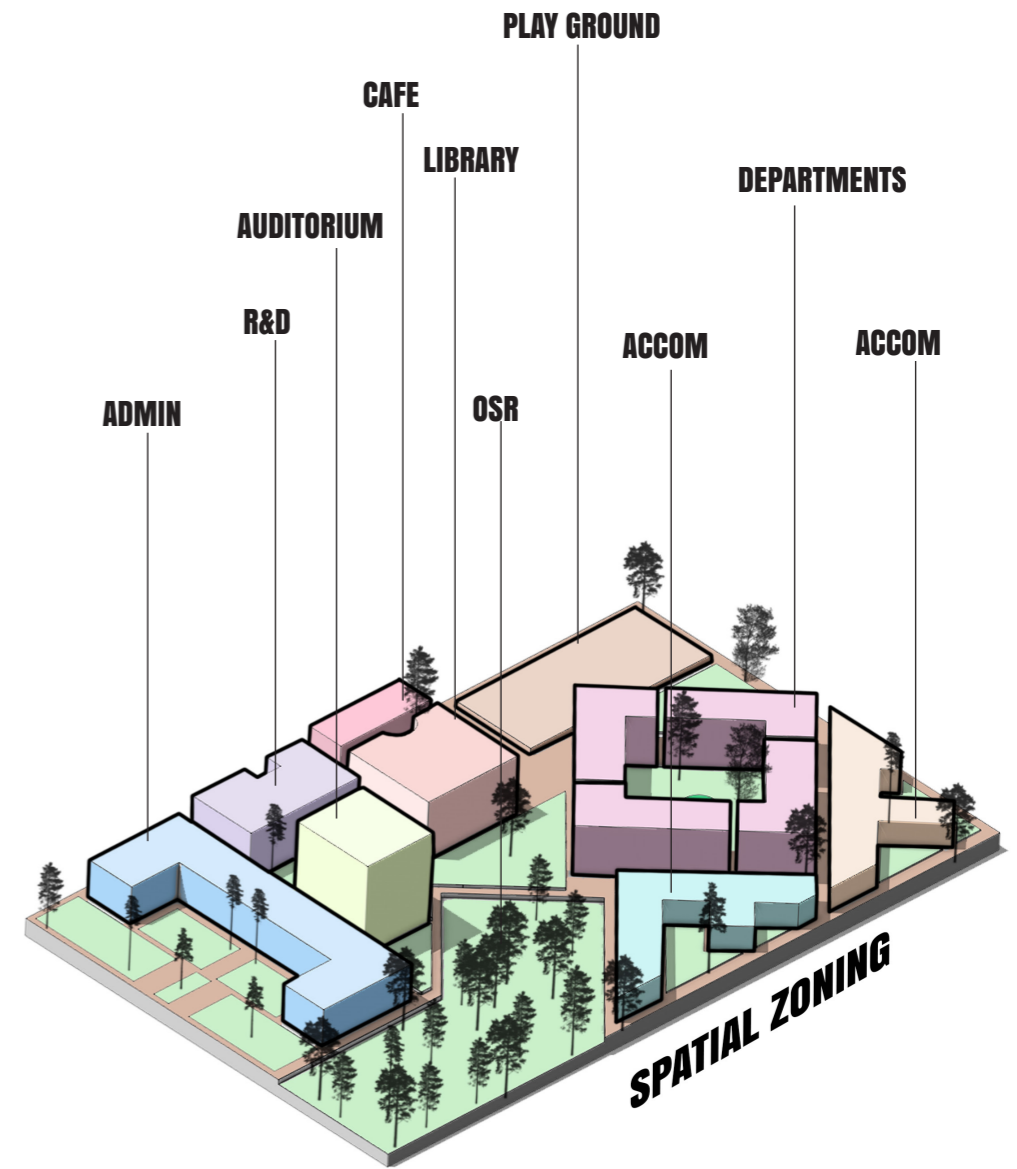
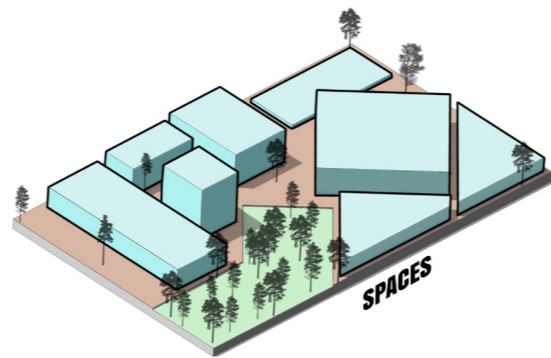
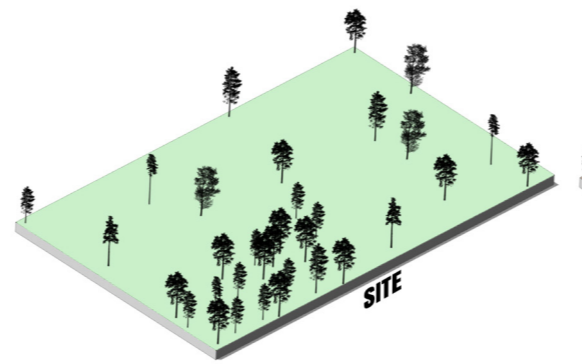
Nestled in the culturally rich city of Trichy, India, this design-focused university campus offers a perfect blend of creativity, innovation, and holistic development. Designed to inspire and foster talent, the campus serves as a hub for aspiring designers, architects, and creative thinkers.

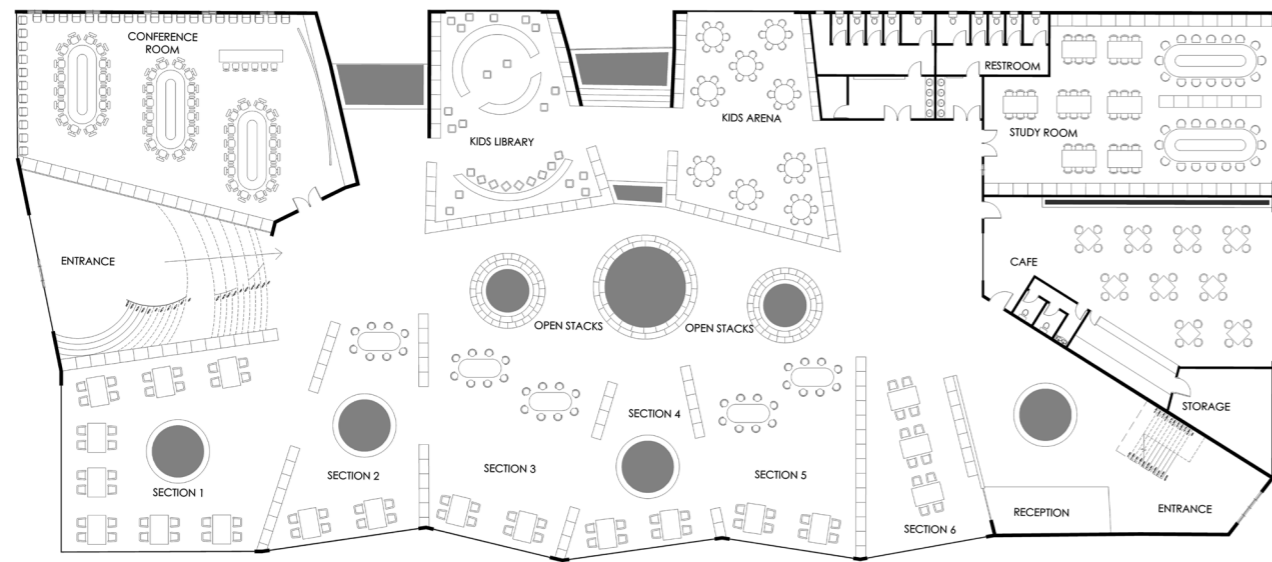
The campus boasts state-of-the-art design studios, well-equipped workshops, and collaborative spaces tailored to support hands-on learning and experimentation. Alongside academic facilities, it features thoughtfully designed student accommodation, providing a comfortable and vibrant living experience. The residences prioritize convenience and community, encouraging interactions among students while ensuring privacy and relaxation.

Set amidst lush greenery and contemporary architecture, the campus creates an environment that balances learning, creativity, and personal growth. Its strategic location in Trichy, a city known for its rich heritage and dynamic cultural fabric, further enhances the students' experience, offering inspiration both on and off campus.

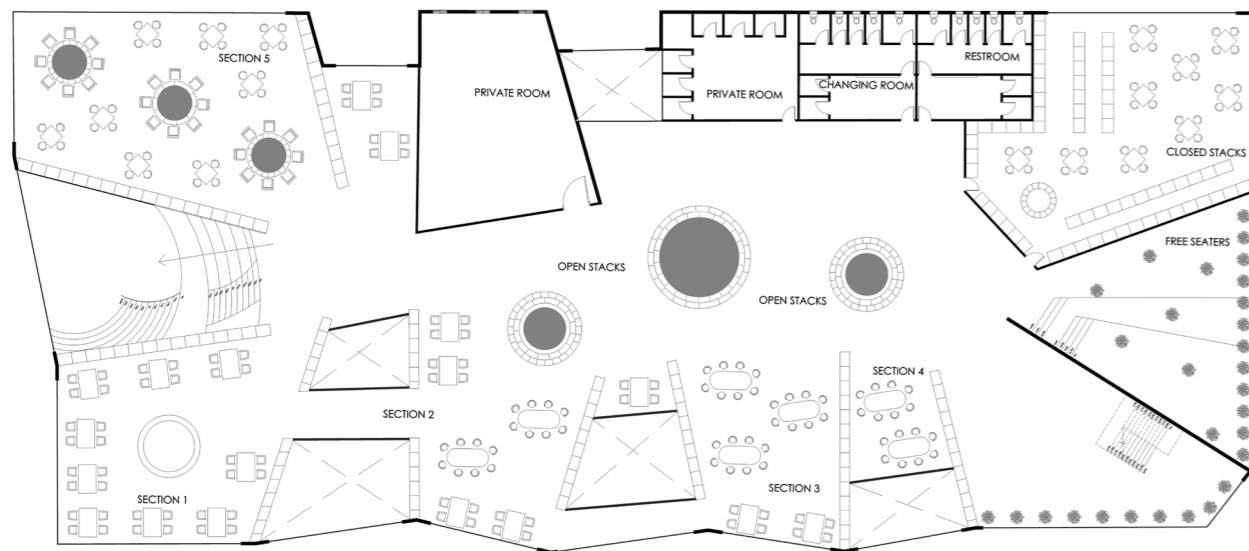
The site zoning in the Trichy layout is strategically designed to segregate functions while ensuring accessibility and efficiency. At the center of the site lies the playground, an open recreational space that is likely intended for communal activities and relaxation. Surrounding this area are key facilities such as the cafe, serving as a social hub, and the research and development (R&D) block, which supports innovation and intellectual work. The administration (Admin) building is placed in a central or easily accessible position to facilitate management and coordination.

Nearby, the auditorium is designated for large gatherings and events, reflecting its need for a prominent yet spacious location. The site also incorporates an Open Space Reservation (OSR), likely serving as a green buffer or reserved environmental area. Residential needs are addressed through multiple accommodation (Accom) zones, which are strategically placed to provide living spaces while maintaining separation from the work and activity areas. Lastly, the departments section is organized to house specific functional units, completing a well-thought-out zoning strategy that balances utility and comfort.

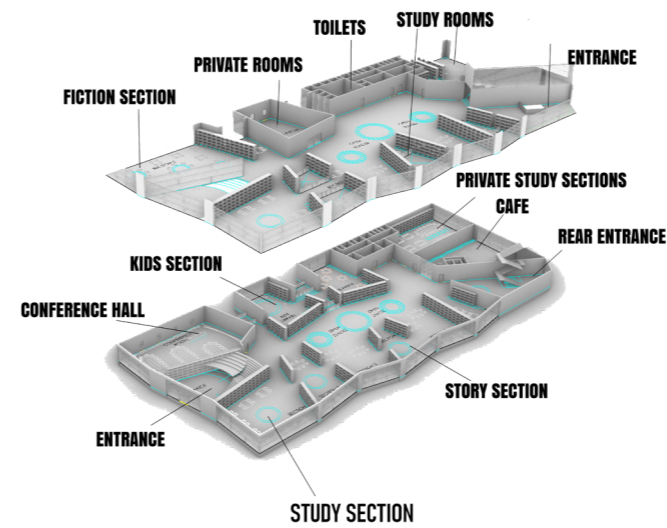




Ground Floor.



First Floor.

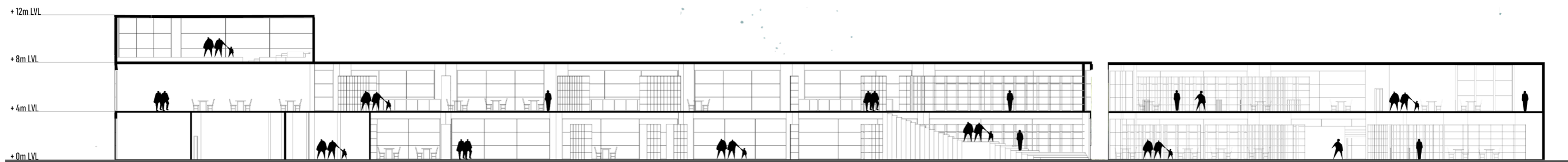


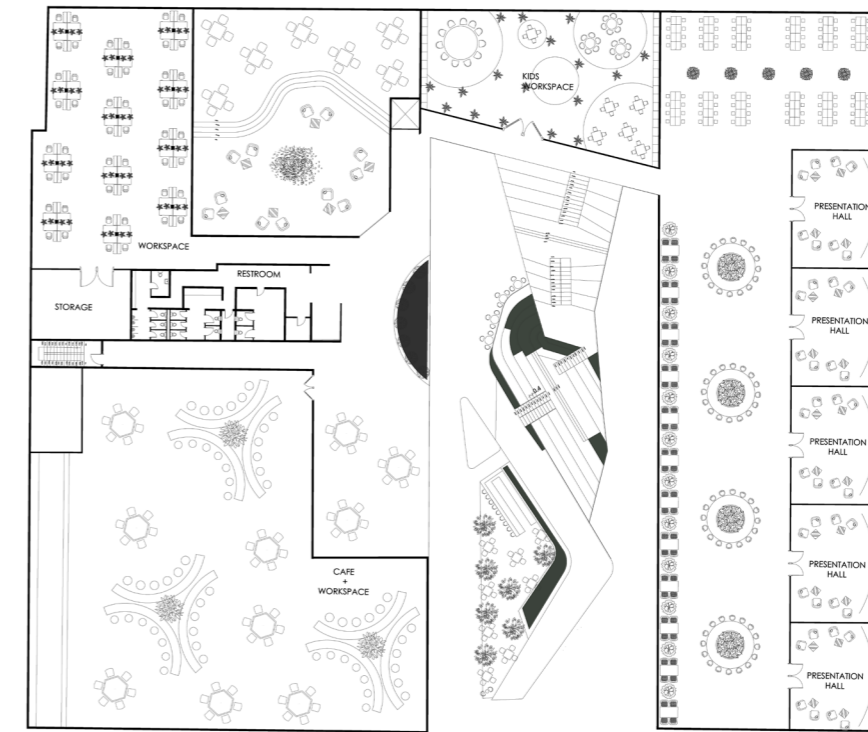
Spatial Zoning.

The university library is a vibrant hub for learning, research, and collaboration, blending traditional and modern features to meet diverse academic needs. It offers quiet reading areas, group study rooms, and collaborative workspaces alongside an extensive collection of books, journals, and digital resources. Equipped with high-speed internet and multimedia tools, it supports both focused study and interactive learning. Designed with sustainability in mind, the library features green roofs, energy-efficient systems, and natural lighting, creating a comfortable and inspiring atmosphere. Inclusive and accessible, it fosters innovation and academic excellence for all.

Tools Used :
Rhino, Twin-Motion

Library Section.

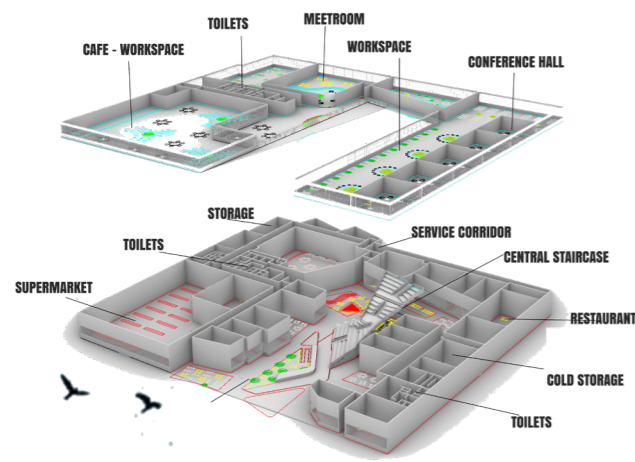




Ground Floor.



First Floor.

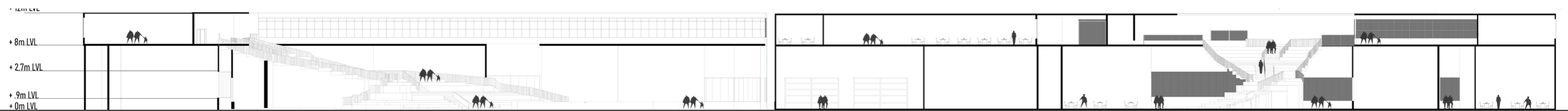


Spatial Zoning.

The Food Court cum Workspace at our university is a dynamic space that combines dining, productivity, and community. Featuring a vibrant food court with diverse cuisines, flexible seating, and landscaped outdoor areas, it caters to both individual and group needs. The workspace offers ergonomic furniture, high-speed internet, sound-proof pods, and collaborative lounges, fostering creativity and focus.

Sustainability is integral, with green roofing, rain-water harvesting, and waste segregation. Beyond functionality, this hub promotes connection through events like workshops and meetups, creating a balanced, eco-friendly environment for work and relaxation.

Section.





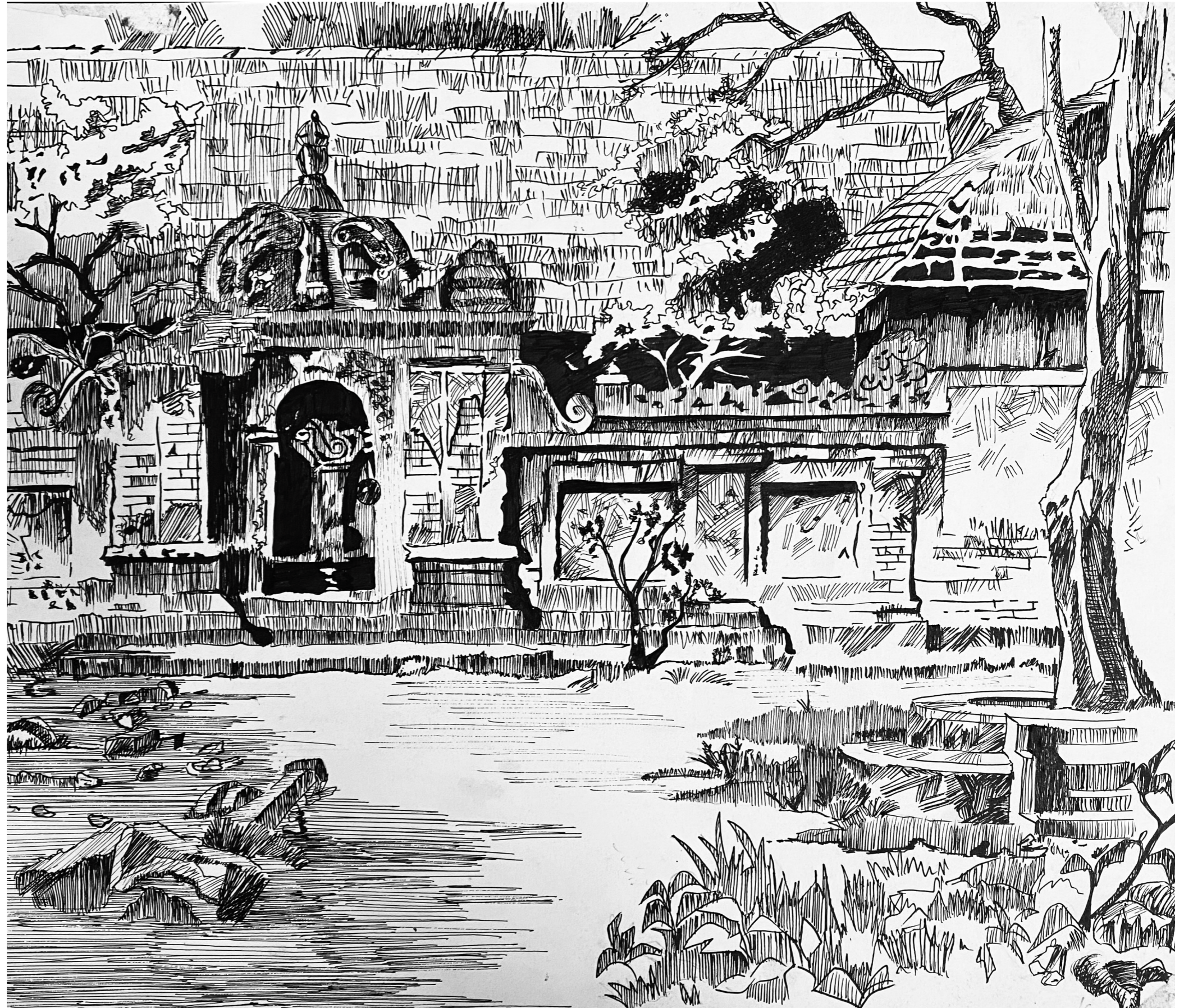
Tools Used :
Sketchup, V-Ray.

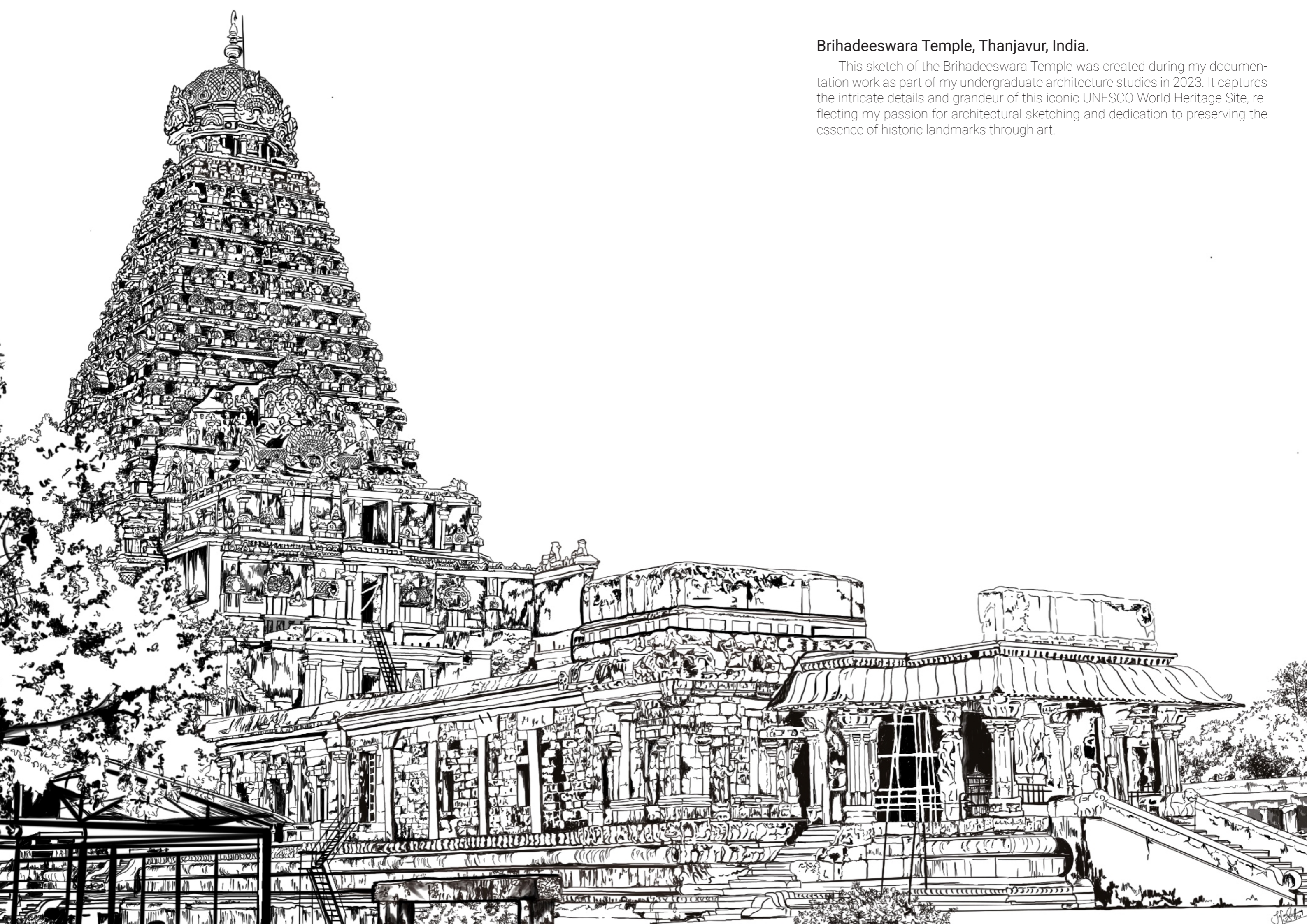
05 MIXED MEDIA

Year : 2018 - 2024
Semester : 6
Typology : Sketchings

This collection reflects my deep passion for sketching, bringing architectural landmarks to life through intricate hand-drawn art. Each sketch captures the essence and character of structures, focusing on fine details, light, and perspective. From historic monuments to contemporary designs, my work highlights the beauty of architecture through the lens of traditional sketching techniques.

This body of work showcases my dedication to storytelling and my love for observing and portraying the built environment with precision and artistic expression.





Brihadeeswara Temple, Thanjavur, India.

This sketch of the Brihadeeswara Temple was created during my documentation work as part of my undergraduate architecture studies in 2023. It captures the intricate details and grandeur of this iconic UNESCO World Heritage Site, reflecting my passion for architectural sketching and dedication to preserving the essence of historic landmarks through art.

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