



# WORKSAMPLES

**GONGMING LIU**

2009-2026 ACADEMIC + PROFESSIONAL

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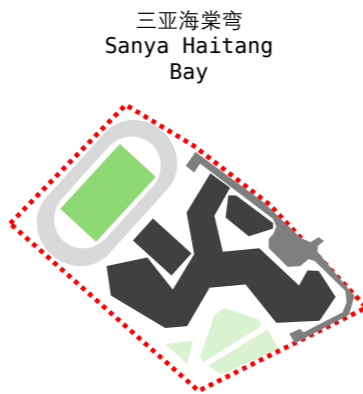
Senior Design Manager  
Project Architect  
Architectural Designer

01. Ardingly School, Zhongshan | Architecture & Interior | 120,000 sqm  
2022 - 2023 | Completed
02. Nanjing Wycombe Abbey School, Nanjing | Architecture & Interior | 115,000 sqm  
2019 - 2021 | Completed
03. E-mobile Group HQ, Shanghai | Architecture | 135,500 sqm  
2023 - 2025 | Completed
04. Culture Park Tourist Center, Jinan | Architecture & Interior | 1100 sqm  
2021 - 2023 | Completed
05. YCIS Block C Renovation, Shanghai | Architecture & Interior | 1510 sqm  
2020 - 2022 | Completed
06. Artist Hostel on Island, Zhoushan | Architecture | 250 sqm  
2020 - 2022 | Completed
07. San jiang Ferry Terminal, Zhoushan | Architecture & Masterplan | 11,000 sqm  
2018 | Schematic Design
08. SEVEN - Al Hamra Theme Park, Saudi Arabia | BIM & Construction | 168,000 sqm  
2025 - Present | Under Construction
09. Meadow House, Limerick, Ireland | Architecture & Interior | 450 sqm  
2017 - 2019 | Completed
10. Academic Research, Chicago, Illinois | Architecture  
2012 | Graduation Projects



# Research

During my five years with the firm, we won and delivered numerous school projects. I led the team in developing a systematic research framework for educational design, covering student-area ratios, operational efficiency, investment return, spatial standards, and teaching facility benchmarks. This helped standardize the design process, improve efficiency, support better client decision-making, and increase overall project quality and client satisfaction.



三亚海棠湾  
Sanya Haitang Bay

用地面积: 58355 m<sup>2</sup>  
建筑面积: 66455 m<sup>2</sup>  
容积率: 0.95



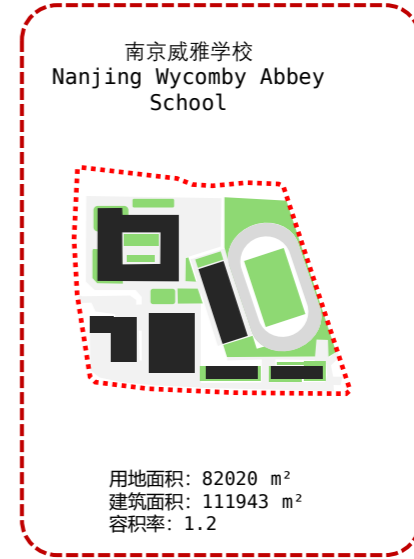
广州蓝谷学校  
Guangzhou Bluevalley

用地面积: 45584 m<sup>2</sup>  
建筑面积: 102564 m<sup>2</sup>  
容积率: 1.5



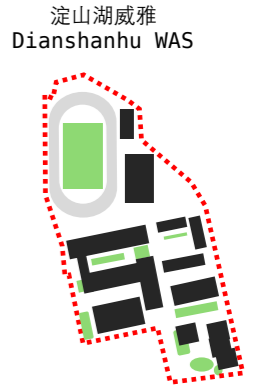
双鱼岛国际学校  
Shuangyu Island School

用地面积: 19990m<sup>2</sup>  
建筑面积: 28300 m<sup>2</sup>  
容积率: 1.28



南京威雅学校  
Nanjing Wycomby Abbey School

用地面积: 82020 m<sup>2</sup>  
建筑面积: 111943 m<sup>2</sup>  
容积率: 1.2



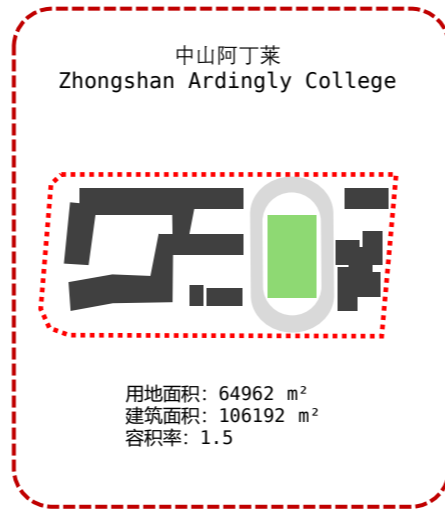
淀山湖威雅  
Dianshanhu WAS

用地面积: 65184 m<sup>2</sup>  
建筑面积: 76707 m<sup>2</sup>  
容积率: 1.05



重庆十方界中学  
Chongqing Shifangjie Campus

用地面积: 46100 m<sup>2</sup>  
建筑面积: 62234 m<sup>2</sup>  
容积率: 0.93



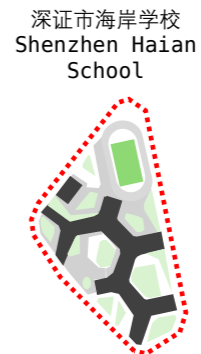
中山阿丁莱  
Zhongshan Ardingly College

用地面积: 64962 m<sup>2</sup>  
建筑面积: 106192 m<sup>2</sup>  
容积率: 1.5



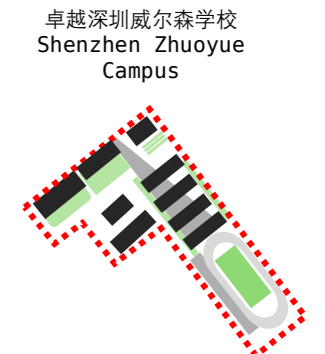
金华江南中学  
Jinhua Jiangnan School

用地面积: 78025 m<sup>2</sup>  
建筑面积: 62309 m<sup>2</sup>  
容积率: 0.8



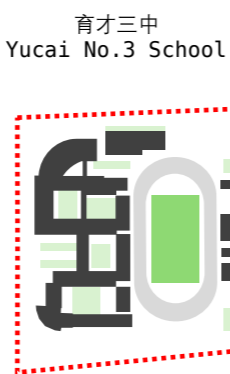
深证市海岸学校  
Shenzhen Hai'an School

用地面积: 26493 m<sup>2</sup>  
建筑面积: 52767 m<sup>2</sup>  
容积率: 1.21



卓越深圳威尔森学校  
Shenzhen Zhuoyue Campus

用地面积: 36500 m<sup>2</sup>  
建筑面积: 41355 m<sup>2</sup>  
容积率: 0.9



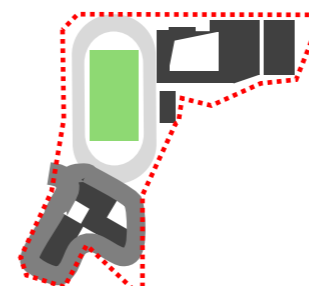
育才三中  
Yucai No.3 School

用地面积: 22345 m<sup>2</sup>  
建筑面积: 50697 m<sup>2</sup>  
容积率: 1.53



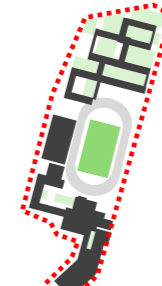
北外广州校区  
Beijing Foreign Language School GZ

用地面积: 106349 m<sup>2</sup>  
建筑面积: 137920 m<sup>2</sup>  
容积率: 1.08



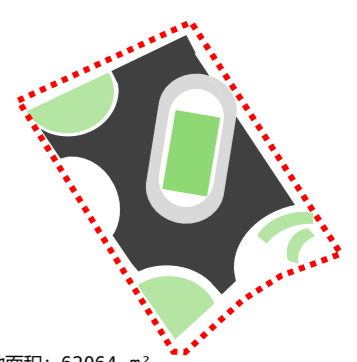
深圳三十二高级中学  
Shenzhen No.32 High School

用地面积: 42057 m<sup>2</sup>  
建筑面积: 90000 m<sup>2</sup>  
容积率: 1.89



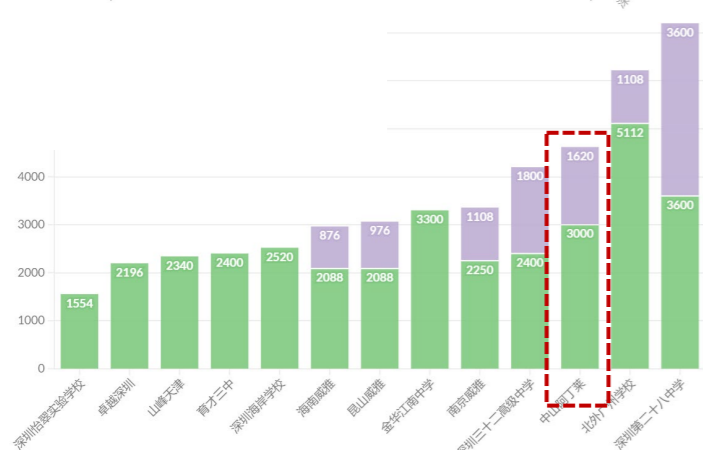
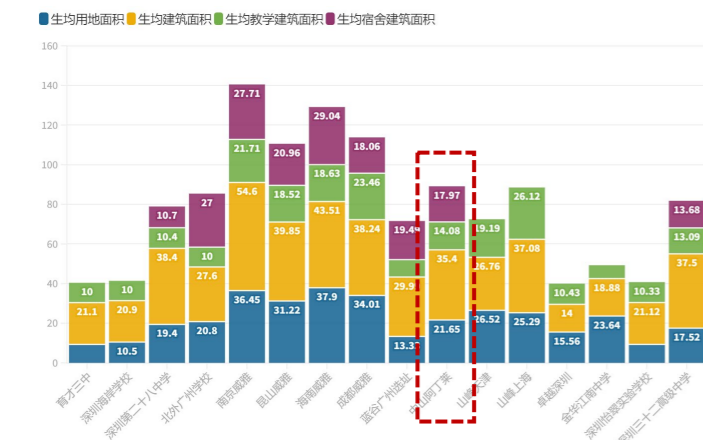
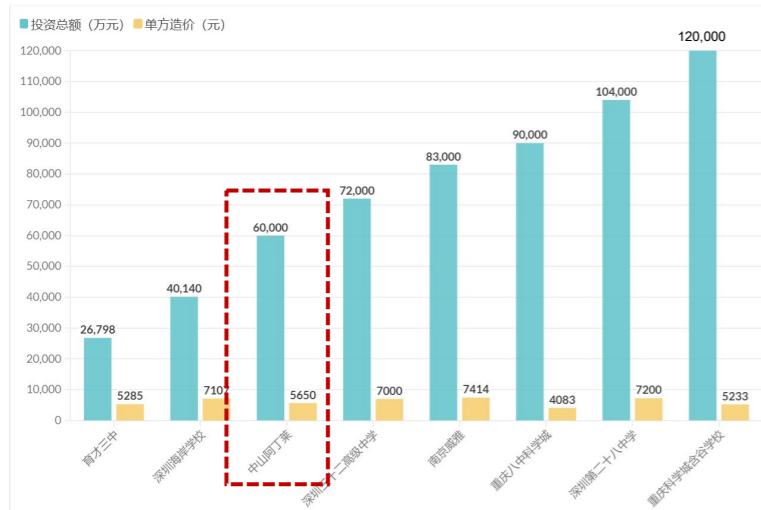
深圳第二十八中学  
Shenzhen No.28 Middle School

用地面积: 70031 m<sup>2</sup>  
建筑面积: 138100 m<sup>2</sup>  
容积率: 1.8



天津山峰  
Jinhua Jiangnan School

用地面积: 62064 m<sup>2</sup>  
建筑面积: 62614 m<sup>2</sup>  
容积率: 1.01



2.1 校舍规模及学位影响

# ARDINGLY INTERNATIONAL SCHOOL - KINDERGARTEN

**Typology:** K-12 Educational

**Location:** Zhongshan, China

**Year & Area:** 2021 / 7,500 sqm in 120,000 sqm Campus

**Scope:** Architecture & Interior

**Status:** Planning SD DD CD CA / Complete

**Role:** Project Architect

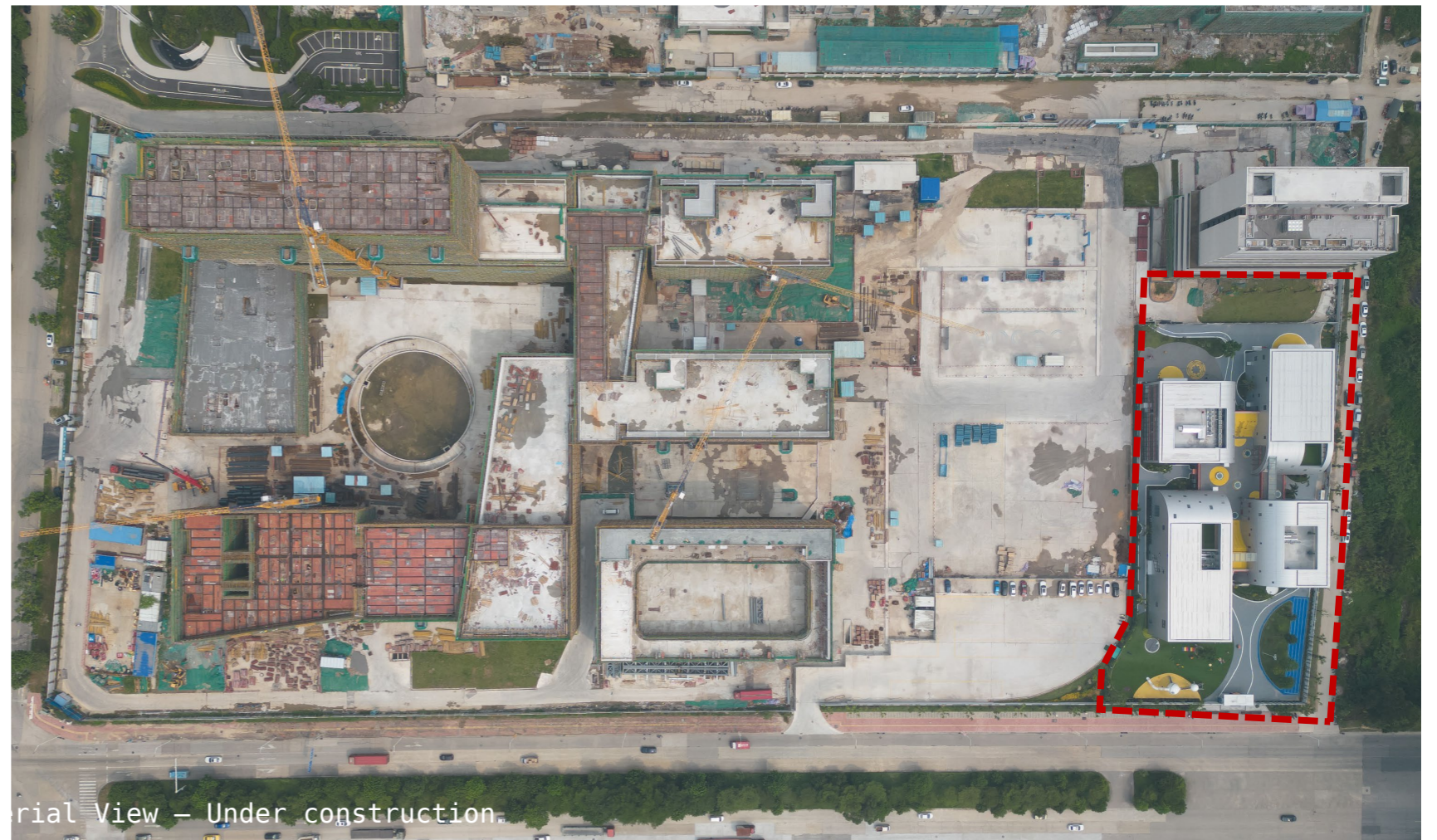
**Software:** Revit / AutoCAD / Enscape Render

# 01



# Nest

As part of a high-density K-12 campus, the kindergarten was designed as an independent and protected "nest" for young children. It has its own entrance and underground drop-off lobby, while sharing the main parking system with the primary and secondary schools through separated circulation. After completing the overall campus planning with the team, I independently led the architectural and interior design of the kindergarten. The key challenge was to create a safe, efficient, and playful children's environment within a compact campus framework.



Aerial View - Under construction.

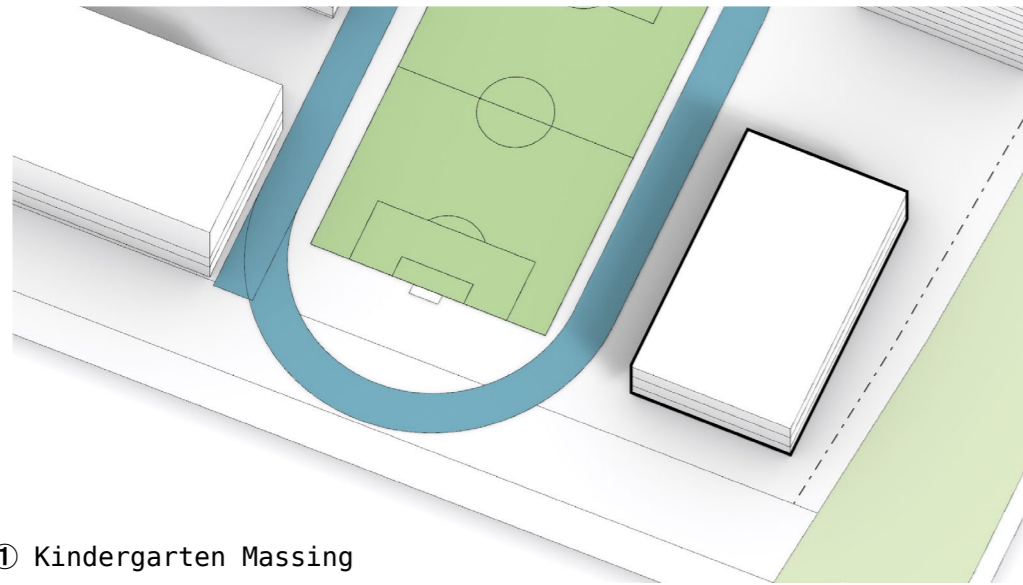


Site Area: 64962 m<sup>2</sup>  
GFA: 120,000 m<sup>2</sup>  
FAR: 1.5

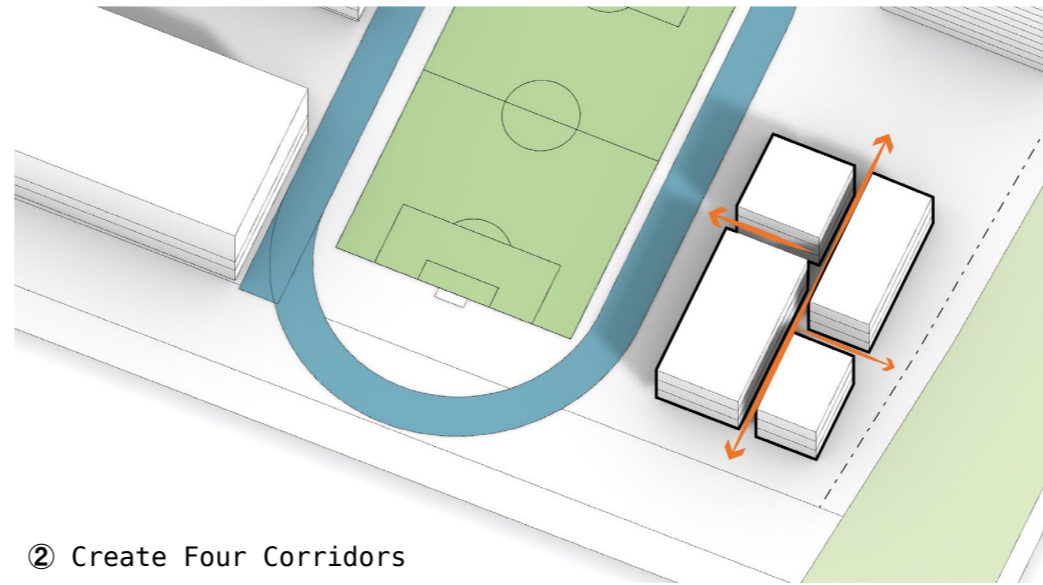
Zhongshan Ardingly College

Kindergarten  
Building Area: 7,500 m<sup>2</sup>

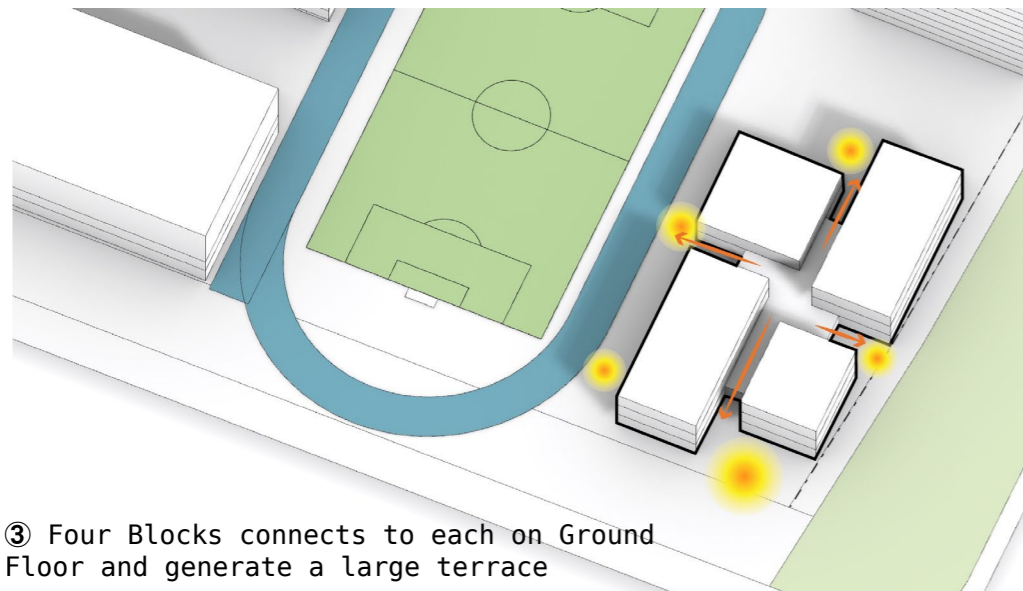




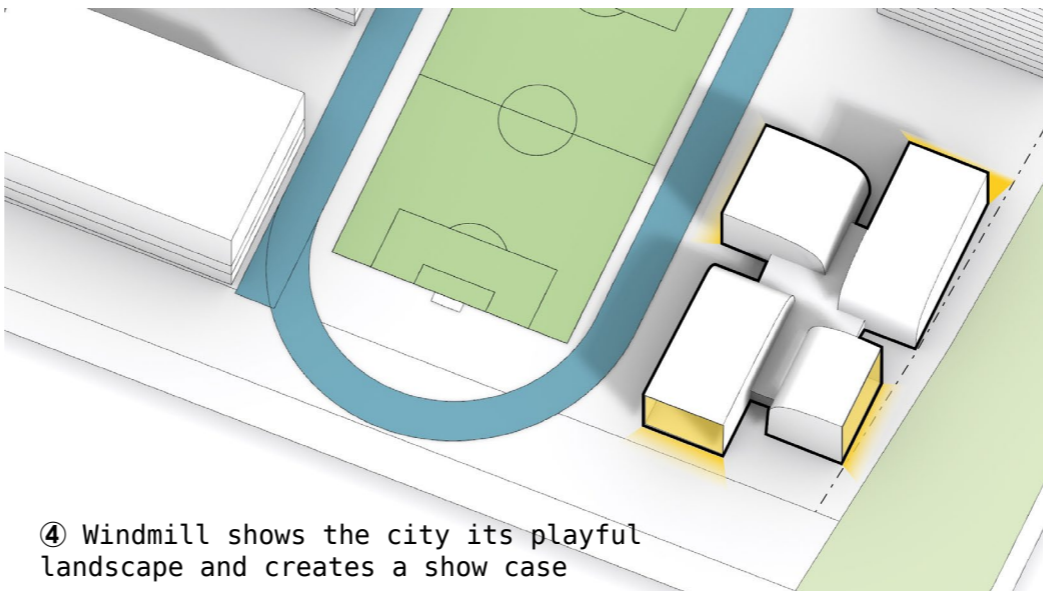
① Kindergarten Massing



② Create Four Corridors



③ Four Blocks connects to each on Ground Floor and generate a large terrace

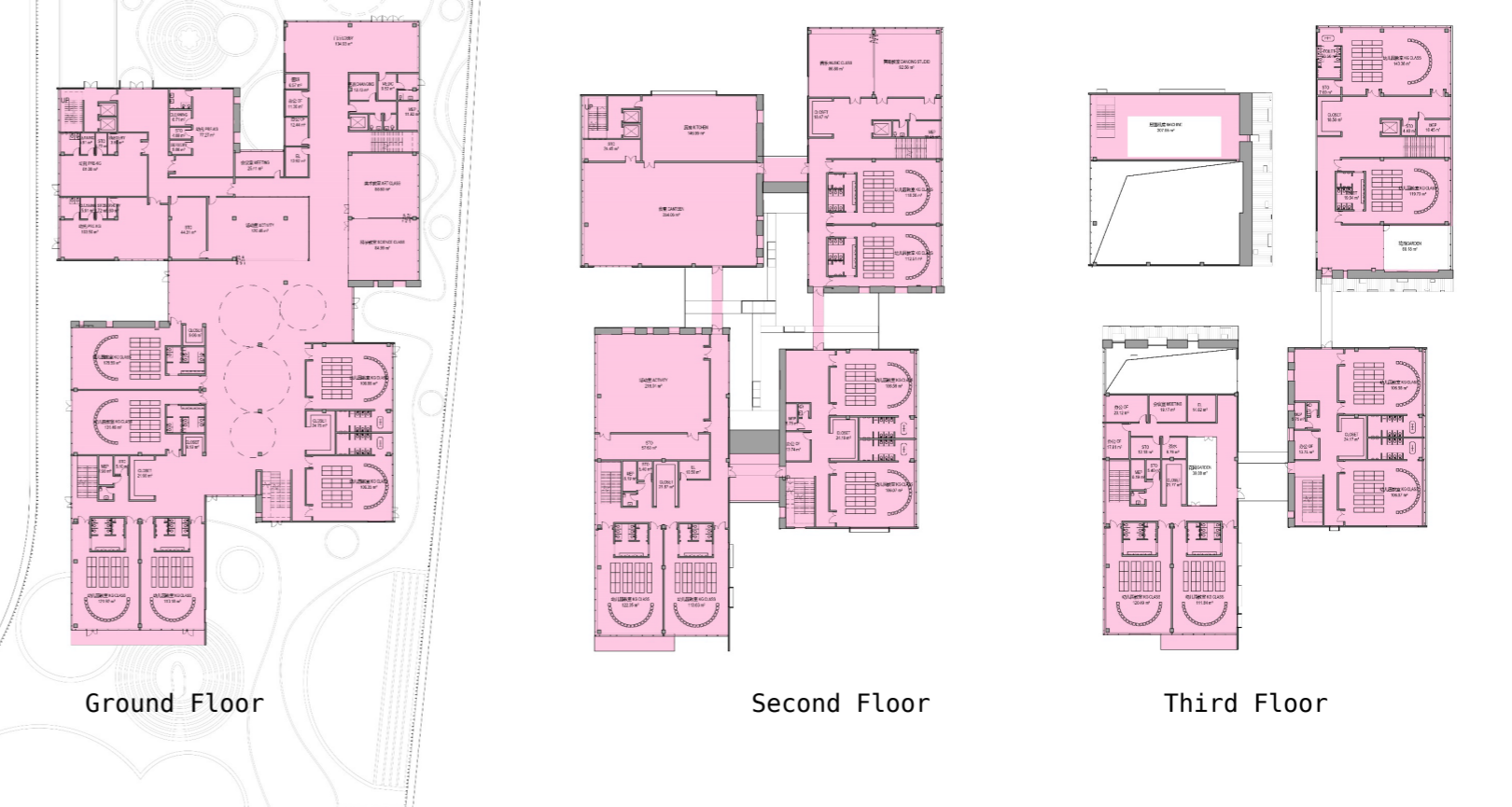


④ Windmill shows the city its playful landscape and creates a show case

# Windmill

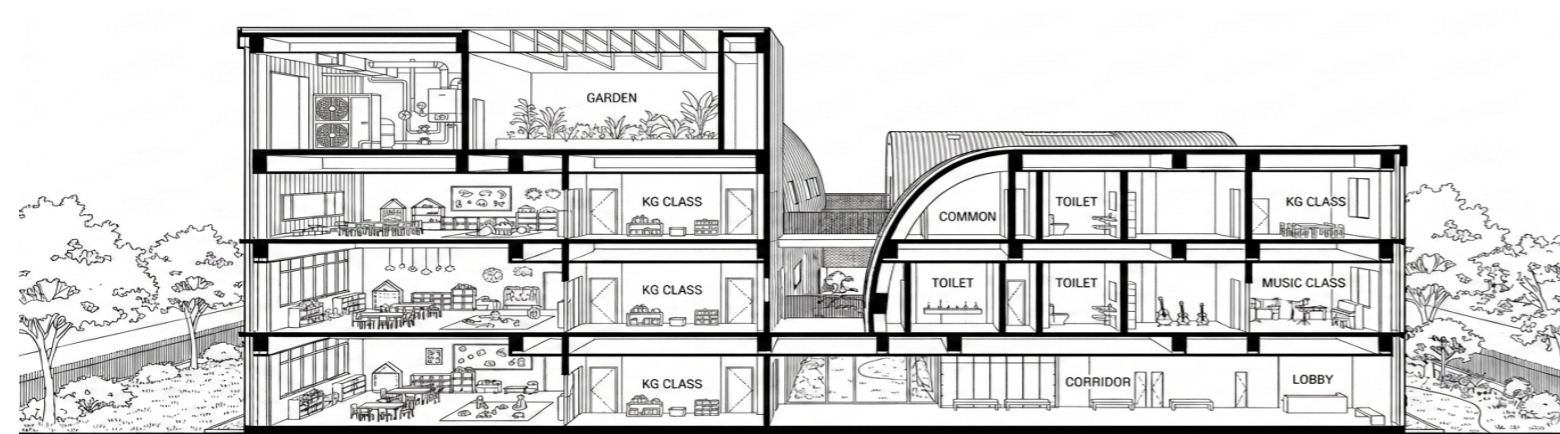
The kindergarten design introduces the concept of a windmill as both an architectural form and a spatial narrative. The four-part massing, landscape layout, and interior organization are developed around this playful geometry, creating a clear identity for the children's campus. Within a dense urban school environment, the design aims to give preschool children a stronger sense of freedom, movement, and connection to nature. Architecture, landscape, and interior spaces work together to transform daily learning into a joyful and exploratory experience.





The kindergarten becomes an exploratory playground where architecture, landscape, and play are closely integrated. Outdoor activity areas extend to the second-floor level, with climbing structures and slides encouraging movement, curiosity, and creativity. Light wells connect the indoor and outdoor spaces, softening the building boundary and creating a more open and playful learning environment.

Wonder



The outdoor landscape is designed as an everyday learning garden, providing each kindergarten class with generous space for play, movement, and discovery. The boundary between classrooms and outdoor areas is intentionally softened, allowing children to move naturally between inside and outside throughout the day. This creates a richer daily rhythm, with more outdoor time and direct contact with nature than most conventional schools and kindergartens in China.

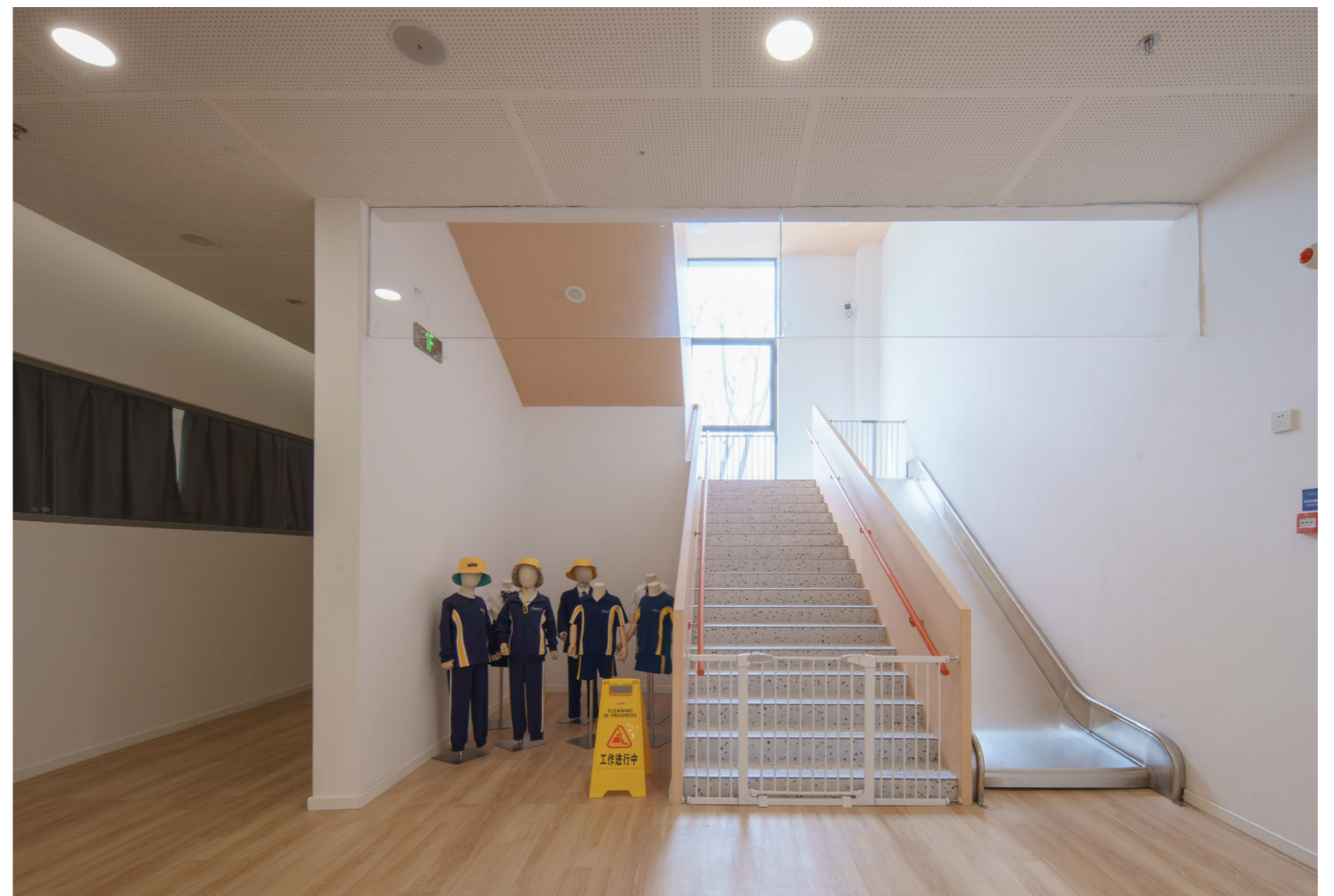
## Garden





# Imagination

Color research was applied to the interior design to create a positive and socially engaging environment for children. Through balanced colors, playful forms, and child-scaled spatial elements, the kindergarten encourages interaction, curiosity, and imagination in everyday learning.



# WYCOMBE ABBEY SCHOOL - PRIVATE INTERNATIONAL SCHOOL

# 02

**Typology:** K-12 Educational

**Location:** Nanjing, China

**Year & Area:** 2019 - 2021 / 115,000 sqm

**Scope:** Architecture & Interior

**Status:** Concept DD CD CA / Complete

**Role:** Senior Architect

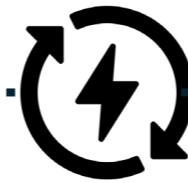
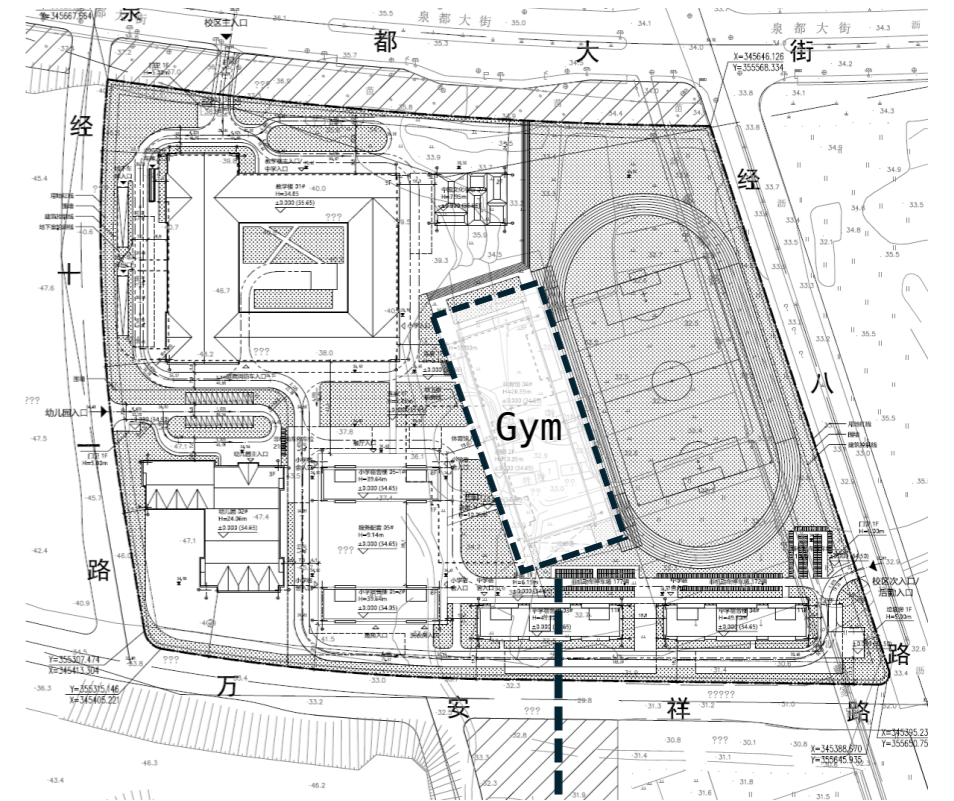
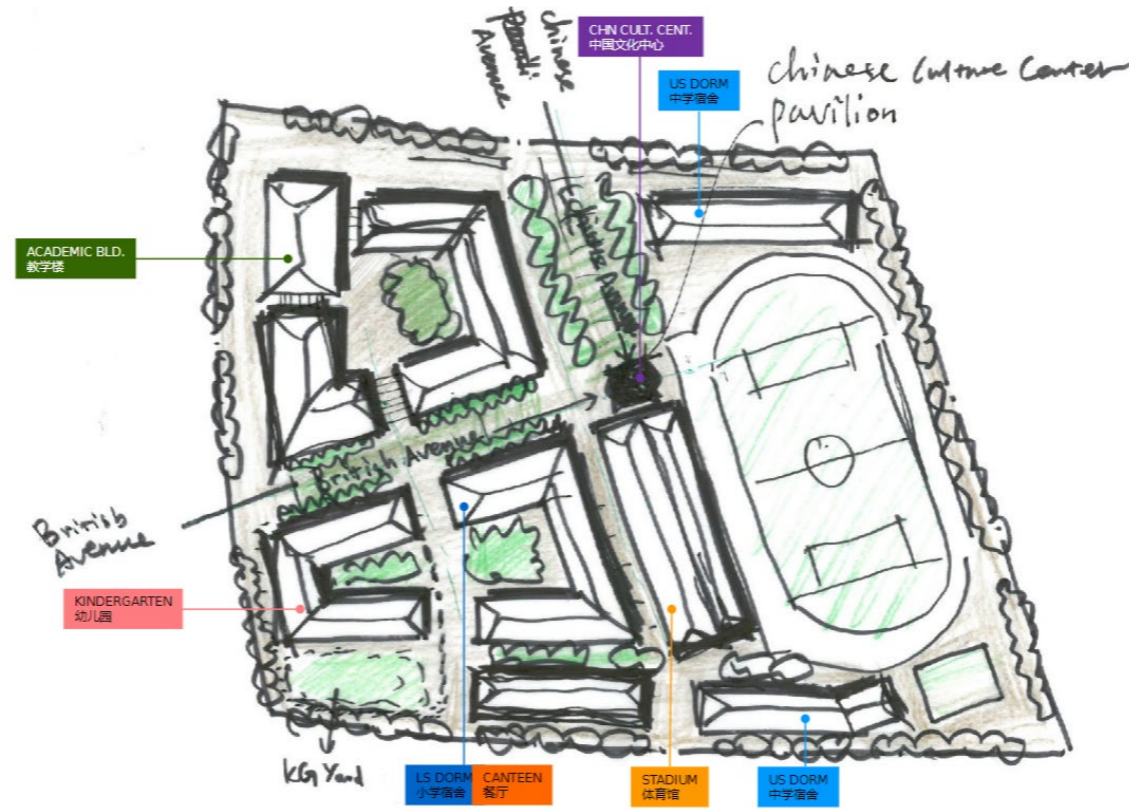
**Software:** Revit / AutoCAD / Lumion / Enscape

Wycombe Abbey School Nanjing was a milestone project for our team, covering site planning, architectural design, landscape, interior design, construction documentation, and project coordination through to the completion of interior works. The project also helped train and develop a group of young designers within the office. As a senior designer on the team, I was deeply involved across multiple stages, contributing to planning studies, architectural and interior design development, technical coordination, and project delivery.



# Programming

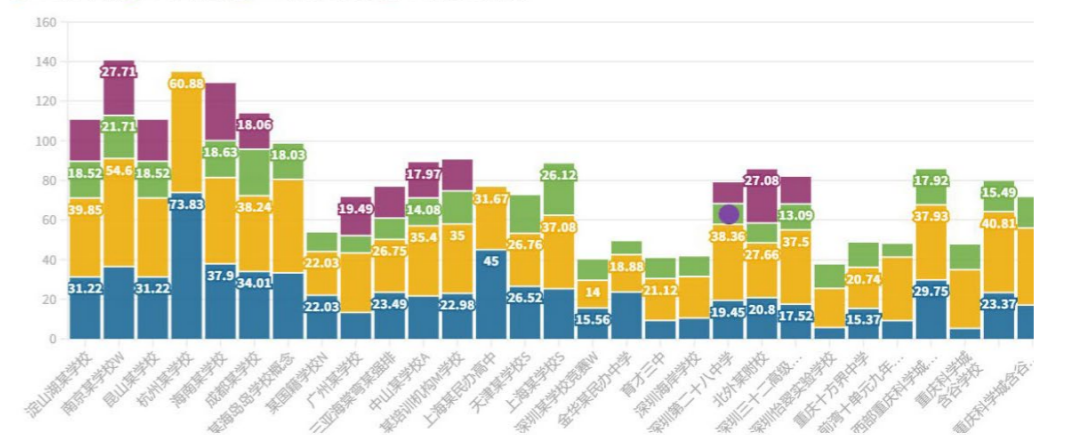
As project architect, I led the campus planning and functional programming, organizing academic, residential, sports, and public spaces around an efficient campus structure. Based on the requirements from the MEP consultants and client, the central energy plant was placed within the gymnasium mezzanine at the heart of the campus, improving mechanical distribution efficiency. The overall planning strategy was developed around energy-saving principles, compact circulation, and long-term operational performance.



## Keyword K12 EDU

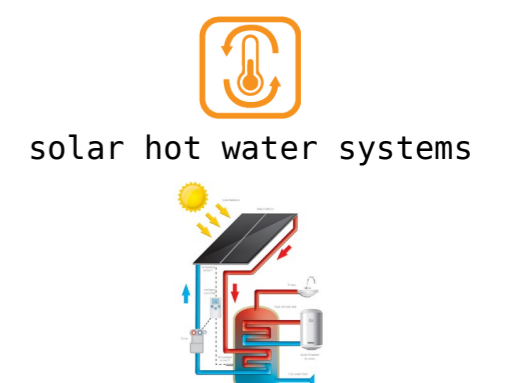
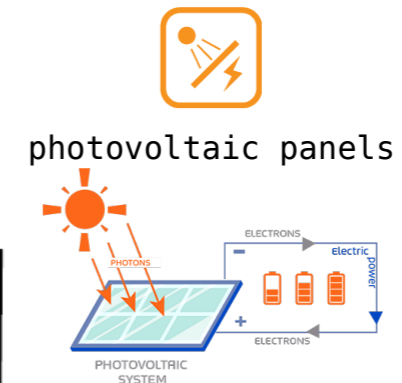
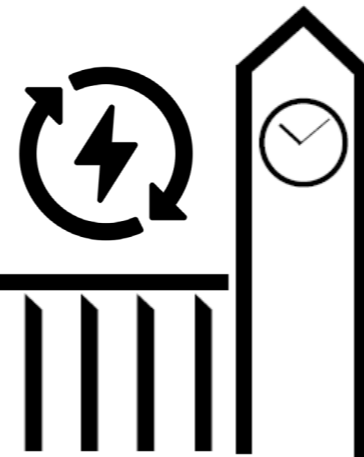
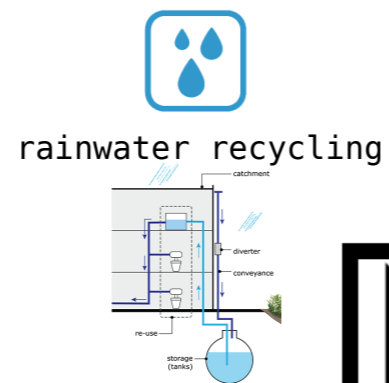
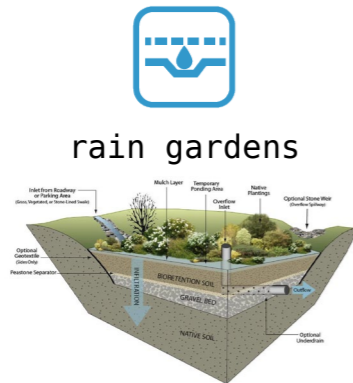
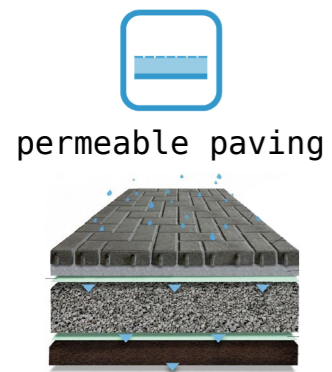
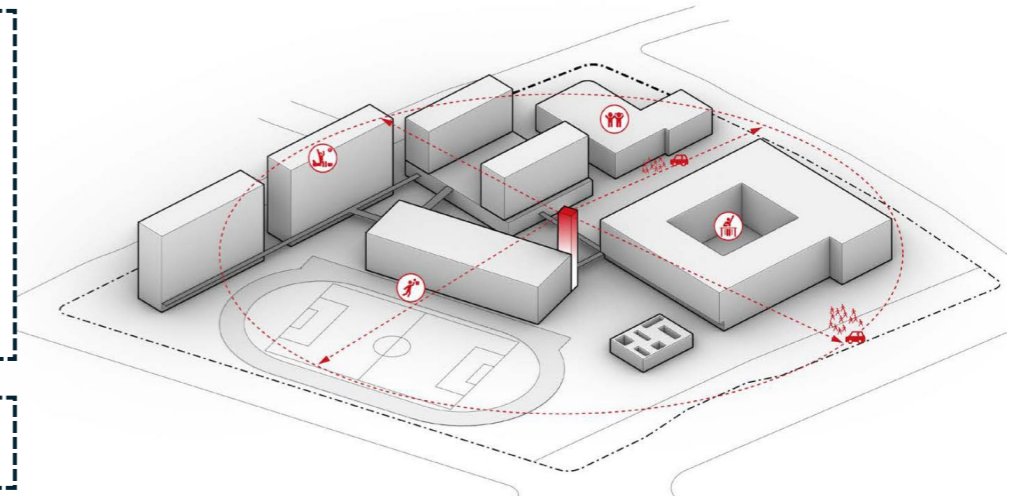
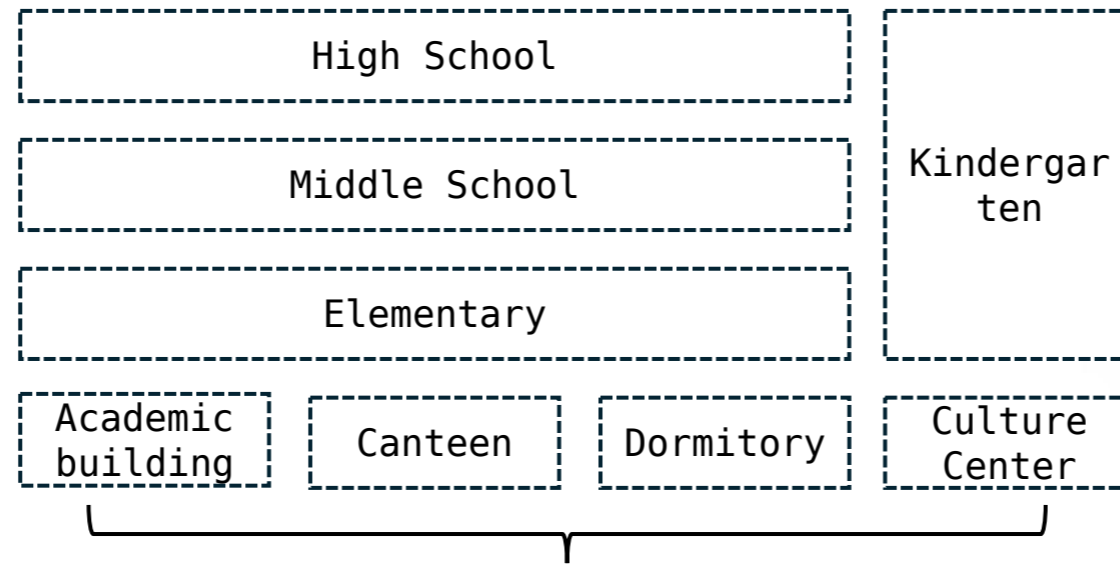


■ 生均用地面积 ■ 生均建筑面积 ■ 生均教学建筑面积 ■ 生均宿舍建筑面积



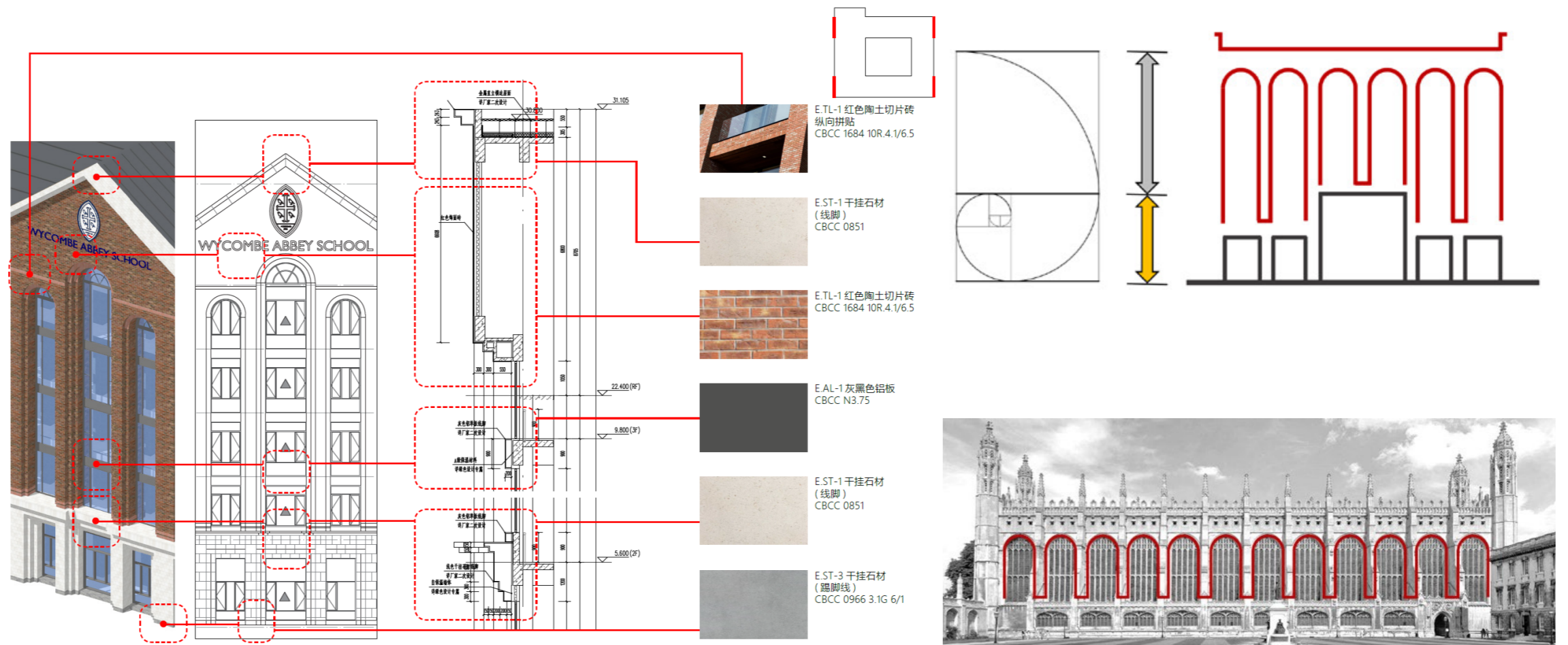
# Spiritual Fortress

The central clock tower was designed as the spiritual landmark of the campus, strengthening the school's international brand identity. A covered corridor system, integrated with MEP service routes, connects the main buildings and supports efficient daily circulation. Sustainable strategies such as permeable paving, sponge-city rain gardens, photovoltaic panels, solar hot water systems, and rainwater recycling were incorporated to improve environmental performance and long-term campus operation.





For the architectural and facade design, I led the team in developing a campus language inspired by the proportions, rhythm, and colonnades of traditional British academic architecture. We prepared a detailed construction guidance manual to ensure design consistency during implementation. Revit as BIM tool was adopted in design process for more accuracy calculation. During construction, the contractor was required to follow the wall-section details closely, reproduce the design intent at full scale, and prepare facade mock-up walls in advance for review. Based on the mock-up process, we further optimized construction methods, material application, and cost control while maintaining the intended architectural quality.



# Façade





# Performance Art

The designing of Performance Arts Center plays a central role within the campus, standing alongside the sports facilities as one of the key amenities of an international school. During the architectural design phase, our team worked closely with Theatreplan, the UK-based theatre design consultant, to coordinate the auditorium layout, stage planning, backstage functions, and audience experience. In the interior design and technical coordination stages, we also collaborated with professional acoustic consultants to guide material selection and define performance criteria for wall systems, doors, windows, and interior finishes. This multidisciplinary coordination helped ensure that the space met both educational and professional performance requirements while maintaining the overall architectural quality of the campus.

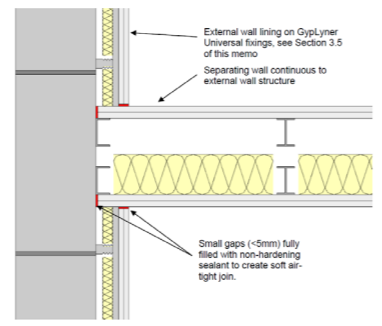


Figure 5 - PLAN: Typical junction between separating walls and external walls

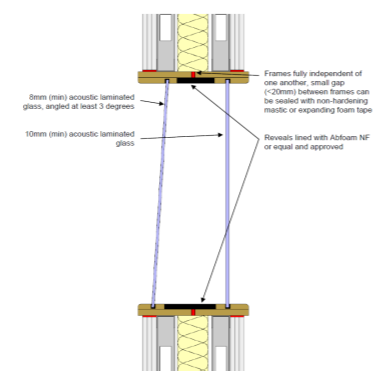


Figure 3 - SECTION: Example control room window

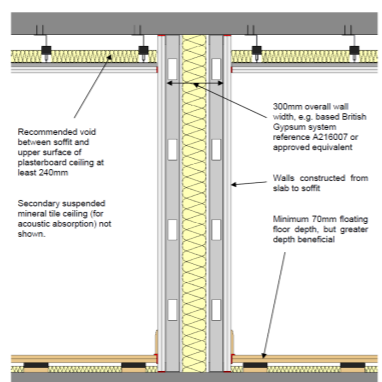
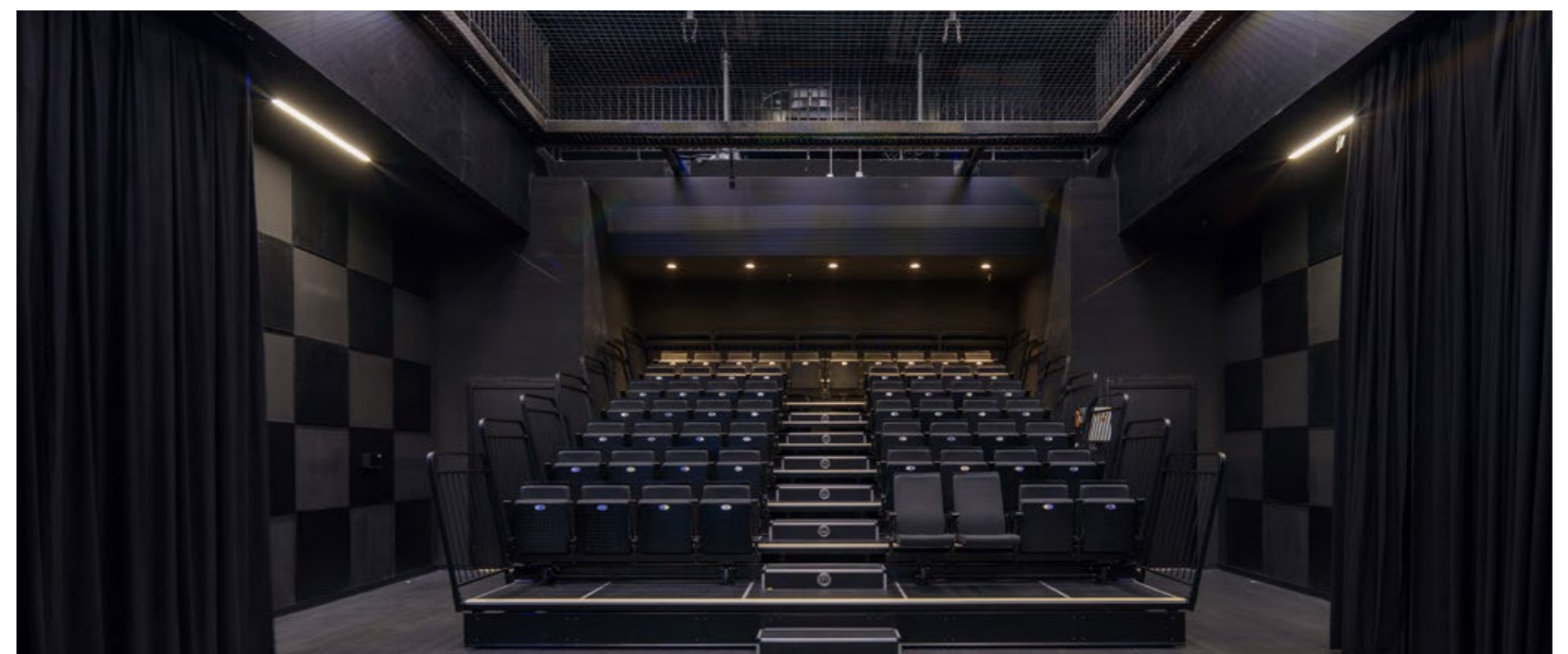


Figure 2 - Example twin stud semi-floating construction





# Library and STEM Lab

After the architectural design phase was completed, the interior design team joined the project. My role was to transfer the client's requirements, educational brief, and our previous research to the interior team, ensuring continuity between the architectural concept and interior strategy. I also coordinated the interface between interior design and specialist consultants, including acoustic and MEP consultants, to align spatial quality, technical performance, material selection, and construction feasibility throughout the design development process.



# Research

We conducted long-term research into the relationship between education and spatial experience, focusing on how color, behavior, spatial organization, materials, and environmental quality influence learning outcomes. These research findings were translated into practical interior design strategies and documented in a spatial design manual for the client. The manual served as both a design deliverable and an operational reference, guiding the development of learning environments that are functional, engaging, and aligned with the school's educational philosophy.



明亮 → 活跃 → 热情



自然 → 清爽



# Color



**SPACE TYPE**

**A.1 ELEMENTARY SCHOOL CLASSROOM / 24 PPL**  
普通小学教室 / 24人

A Regular Classroom from 75-80sqm.

**Row / Line / Grouped**

**DESIGN INTENT**  
24 students classroom. Focus on safety, comfort, and learning experience. The design should provide natural light, appropriate acoustics, and age-appropriate furniture. The space should be designed to facilitate interactive and collaborative learning.

**FURNITURE & ACCESSORIES**  
- table chair suite (Steelcase / Haworth)  
- magnetic white board or writable wall paint

**TECHNOLOGY**  
- Power feed from wall  
- Wireless connectivity  
- conference telephone  
- wall mounted display w/ video conferencing

**MATERIALS & FINISHES**  
Floor - carpet 500x500mm (blue)  
Walls - plaster wall  
- fireproof panel (blue)  
- inorganic coating (light gray)  
- fireproof panel on wood case (white)  
- Writable, magnetic painted wall Or  
- magnetic, glass marker board.  
- PVC base (white)  
ceiling - acoustical ceiling tiles and grid, 1200x600, CH=3.00m

**LIGHTING**  
Fixture - LED ceiling mounted panel, 4000k, same size as ceiling unit  
- dimmable

**ACOUSTICS**  
Wall - Rw40/Rw50 adjacent room  
Doors - Rw30 acoustical door  
Floor - Rw55  
Ceiling - mineral tile ceiling as secondary ceiling beneath concrete slab  
Room - Max ambient noise level 35 dB, 0.8 Tmf

**NOTES**  
- Fabric do not extend to wash basin

**Legend:**  
A Student task chair Steelcase / haworth  
B Multi-media Digital White Board Maxhub / sewo, etc.  
C Instructor desk power adapter  
D Storage Table w/ washing basin 550mm in height  
E High Window 1600mm in height Dupon™ SentryGlas® white  
F Door with observation window  
G Group of Switch  
H Fabric Wrap wall blue

**SPACE TYPE**

**A.1 ELEMENTARY/UPPER SCHOOL SCIENCE LAB / 24 PPL**  
小学中学科学教室 / 24人

A Regular Science Lab 70-75 sqm.

**Group Arranged**

**DESIGN INTENT**  
24 students science lab. prioritize safety, functionality, and aesthetic appeal. The lab should be equipped with the latest technology and equipment to support scientific research and experimentation. The lab should also encourage collaboration and accessibility for all students.

**FURNITURE & ACCESSORIES**  
- table with cable management (powered)  
- task stall  
- magnetic white board or writable wall paint

**TECHNOLOGY**  
- tabletop power for laptop connectivity  
- Power feed from wall  
- Wireless connectivity  
- conference telephone  
- wall mounted display w/ video conferencing

**MATERIALS & FINISHES**  
Floor - epoxy floor (gray)  
Walls - plaster wall  
- fireproof panel (blue)  
- inorganic coating (light gray)  
- fireproof panel on wood case (white)  
- Writable, magnetic painted wall Or  
- magnetic, glass marker board.  
- PVC base (white)  
ceiling - acoustical ceiling tiles and grid, 1200x600, CH=3.00m

**LIGHTING**  
Fixture - LED ceiling mounted panel, 4000k, same size as ceiling unit  
- dimmable

**ACOUSTICS**  
Wall - Rw40/Rw50 adjacent room  
Doors - Rw30 acoustical door  
Floor - Rw55  
Ceiling - mineral tile ceiling as secondary ceiling beneath concrete slab  
Room - Max ambient noise level 40 dB, 0.8 Tmf

**NOTES**

**Legend:**  
A Lab desk Local provider  
B Washing Table  
C Eye Washing Facility provider  
D Lab dedicated lighting 60x60mm 4000k  
E Epoxy Floor Gray color, Local Brand  
F Poster Panel Stainless steel  
G All in one Lab Device Gas Electricity embedded Brand: Freesky  
H Instructor desk Wash sink & gas  
I Multi-media Digital White Board Maxhub / sewo, etc.  
J Storage for lab equipment 750mm in height

# E-MOBILE PARK HQ

**Typology:** Office

**Location:** Shanghai, China

**Year & Area:** 2023 / 135,500 sqm

**Scope:** Architecture, Interior & Landscape

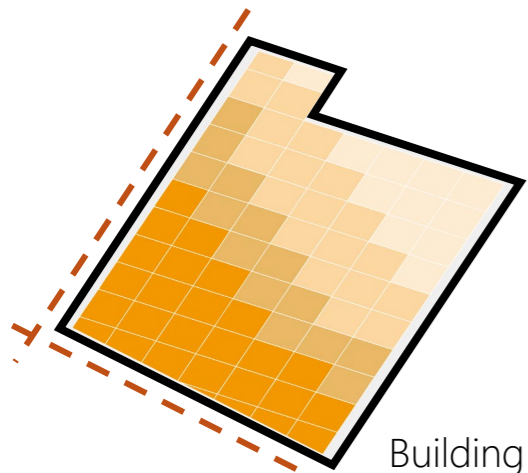
**Status:** SD DD CD CA / Complete

**Role:** Project Architect

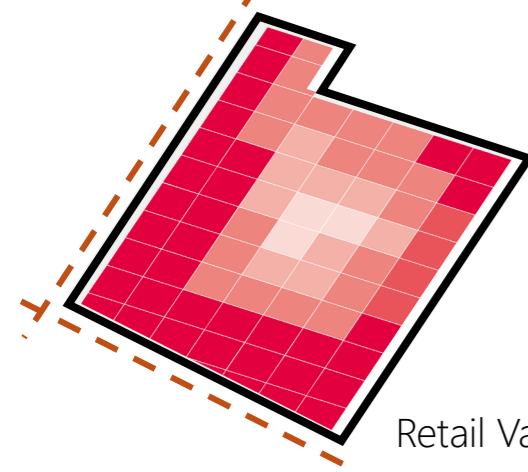
**Software:** Rhino / V-ray / Enscape Render

# 03

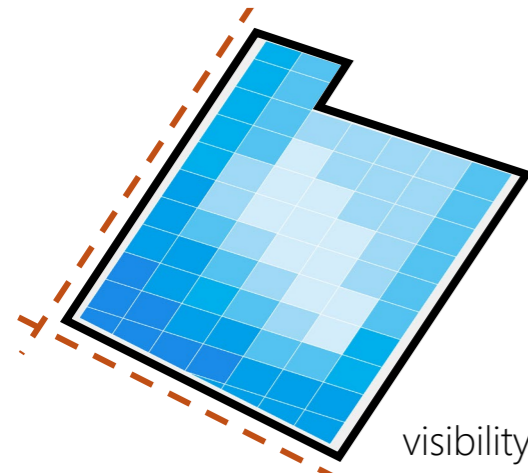




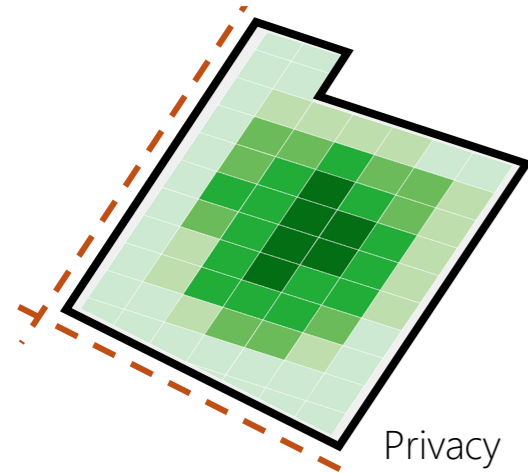
Building height control



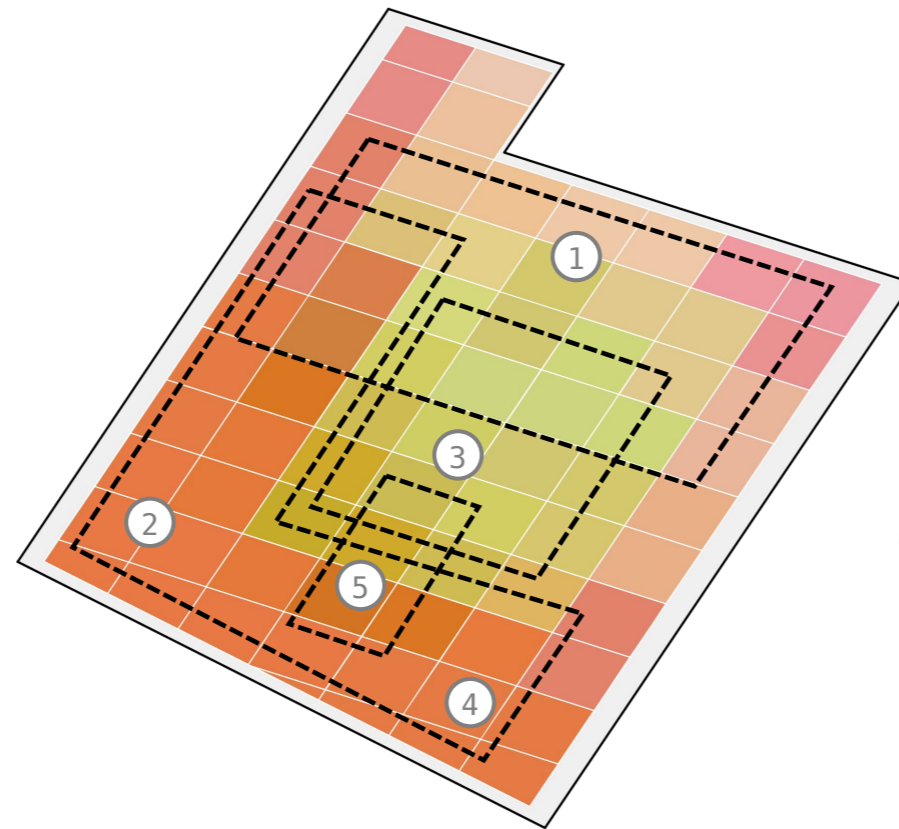
Retail Value



visibility



Privacy



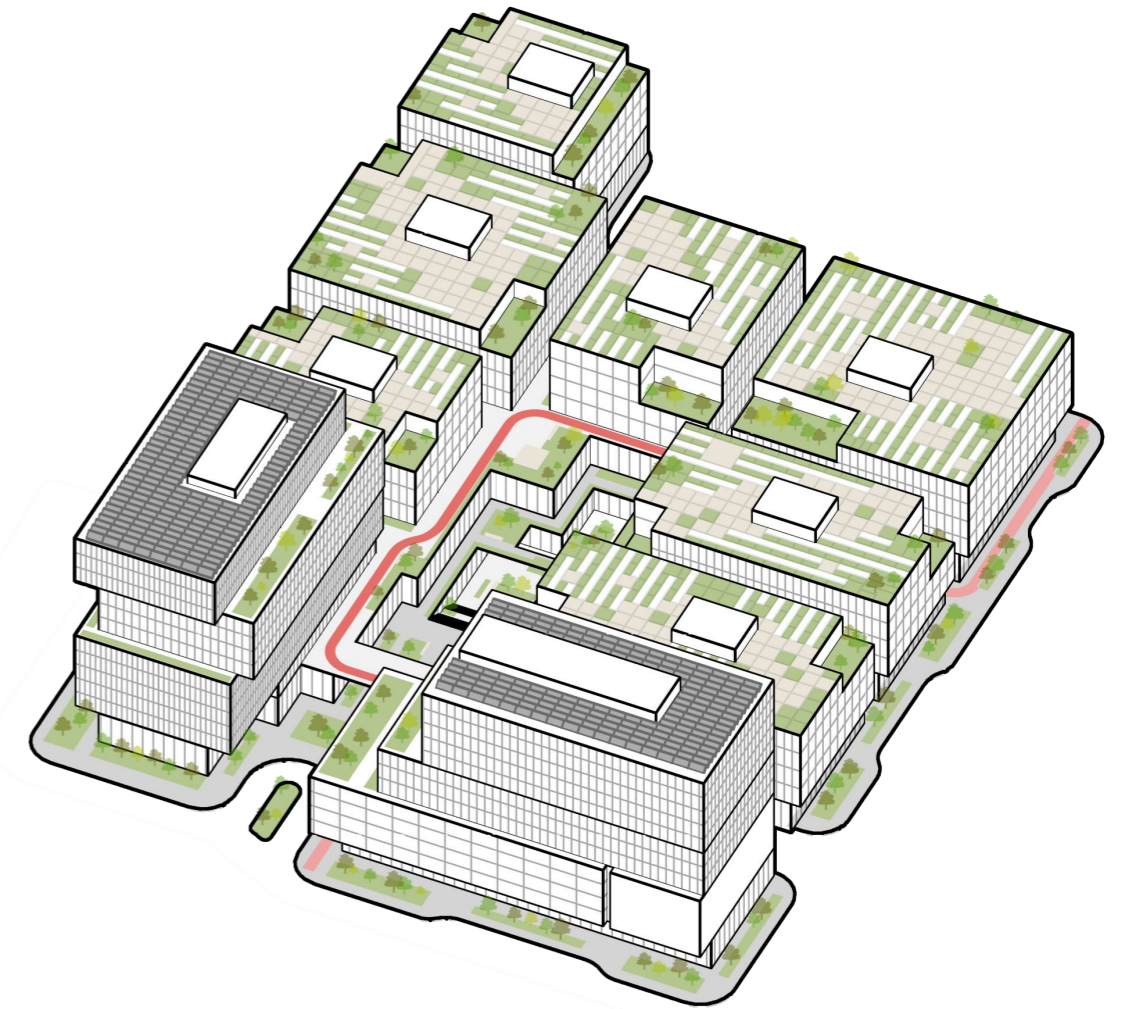
1. The property for sale is arranged on the north side, adjacent to the landscape lake area

2. The height of buildings is increasing from north to the south. Therefore to enhance the best view of branding display

3. The service compound should be placed at the center, making it easier to service adjacent office blocks.

4. The 50m high-rise is placed in the south west part of site, where it can access better convenient traffic and from landscape. It provides a better urban façade as well

5. The park exhibition center and party building exhibition hall are arranged in the south entrance area.



## Context

From the public tender stage, I led the team in analyzing the site's commercial value, urban visibility, accessibility, privacy, and surrounding high-density context.

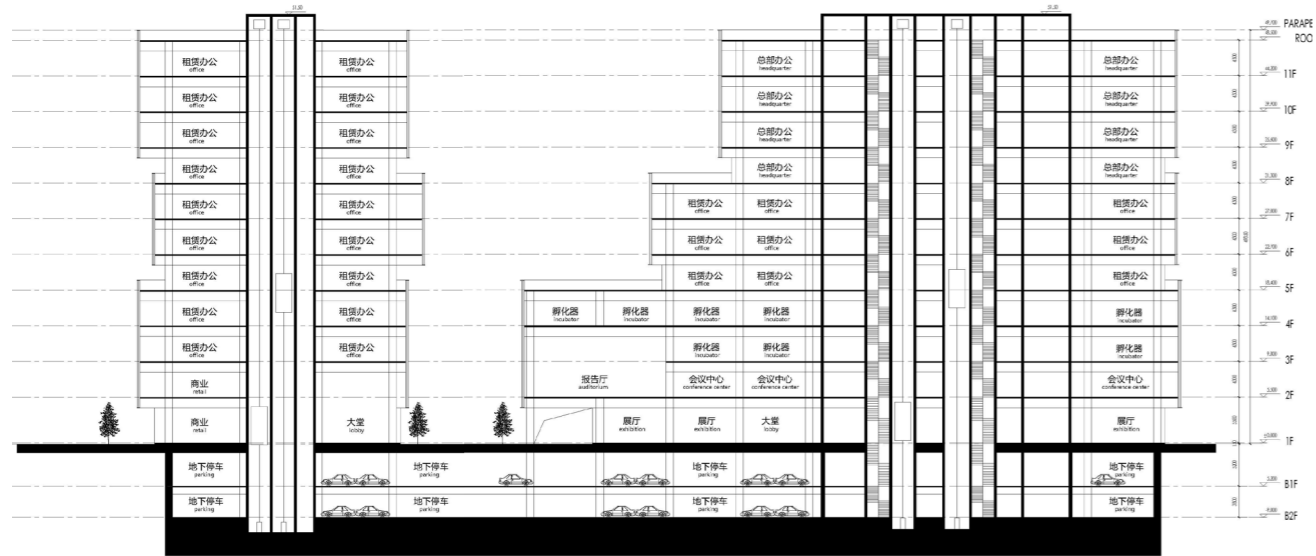
We also researched high-rise headquarters and premium office products to understand floorplate efficiency, core planning, leasing flexibility, and corporate image.

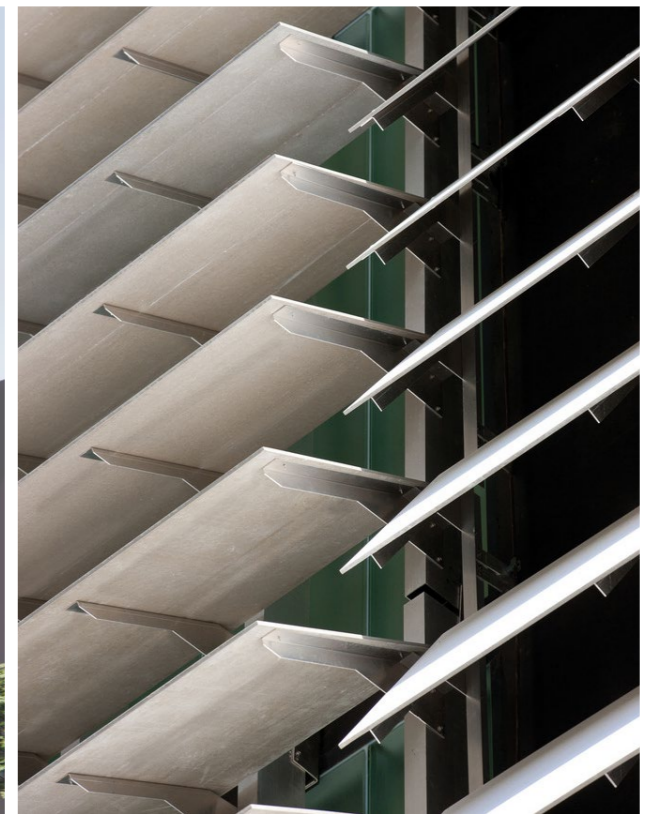
Using Rhino and Grasshopper, we translated site conditions and planning data into visual analytical diagrams, providing a clear, data-driven foundation for the design strategy.

# Canyon

“Smart Canyon” was the core design concept developed during the tender stage, responding to the challenges of high site coverage and high floor area ratio. By carving a sunken plaza into the dense site and increasing the building’s folded surface, the design introduced more daylight, outdoor terraces, and spatial depth into the project.

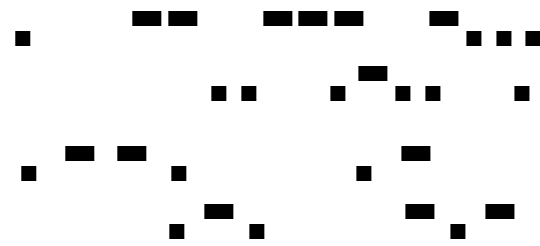
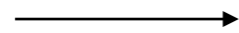
This canyon-like strategy transformed the constraint of density into an opportunity to improve spatial quality, environmental performance, and the overall workplace experience.



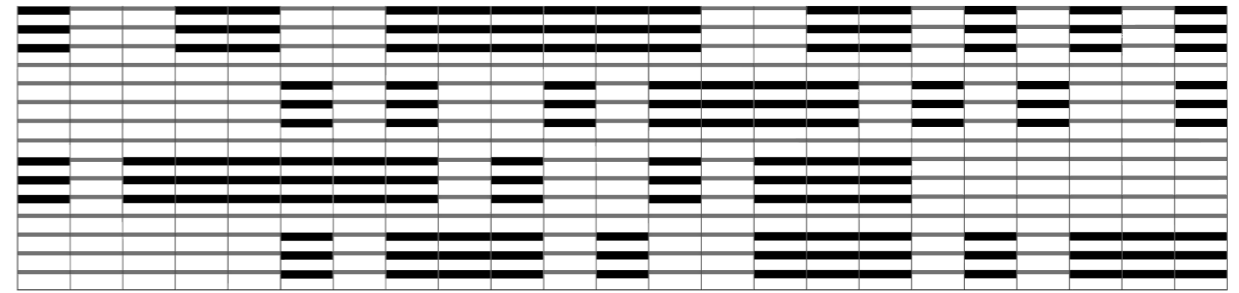
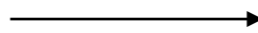


# E-MOBILE PARK

Text



Morse Code



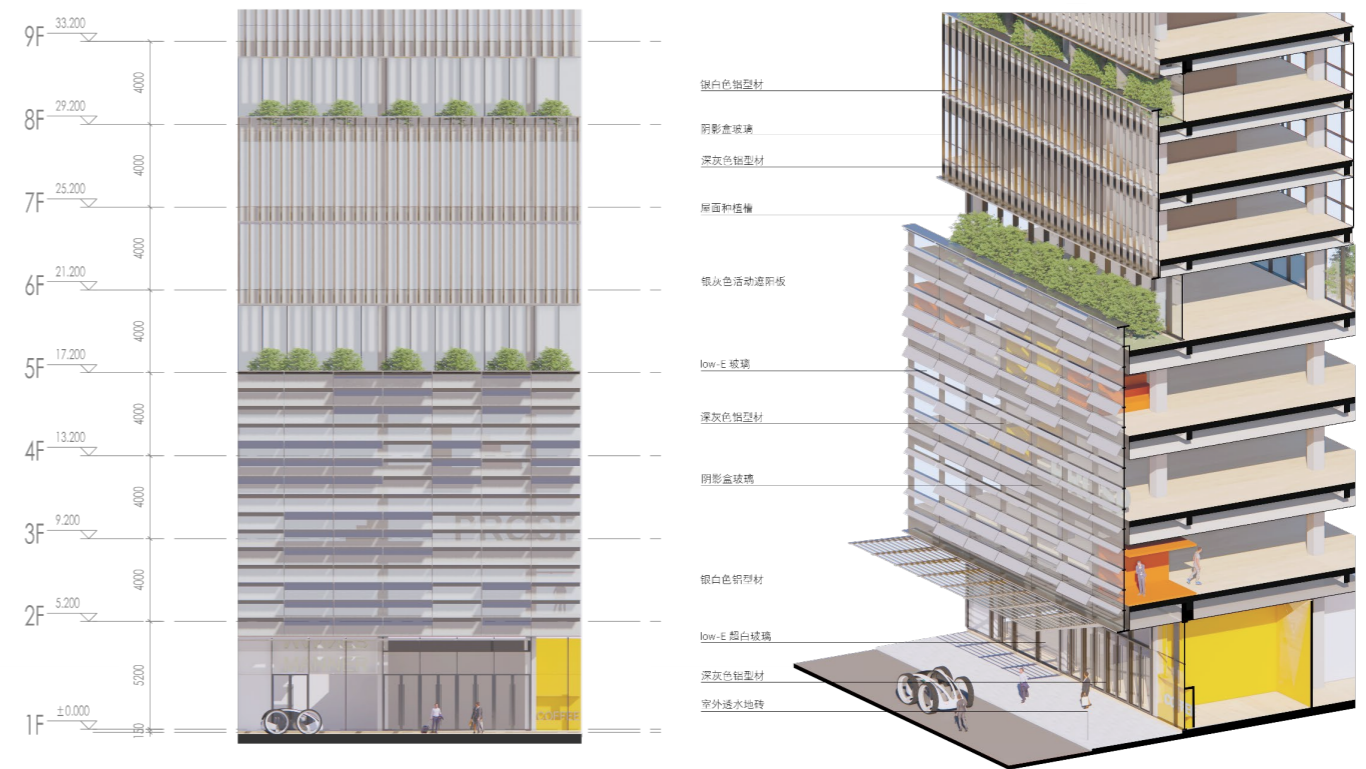
Facade

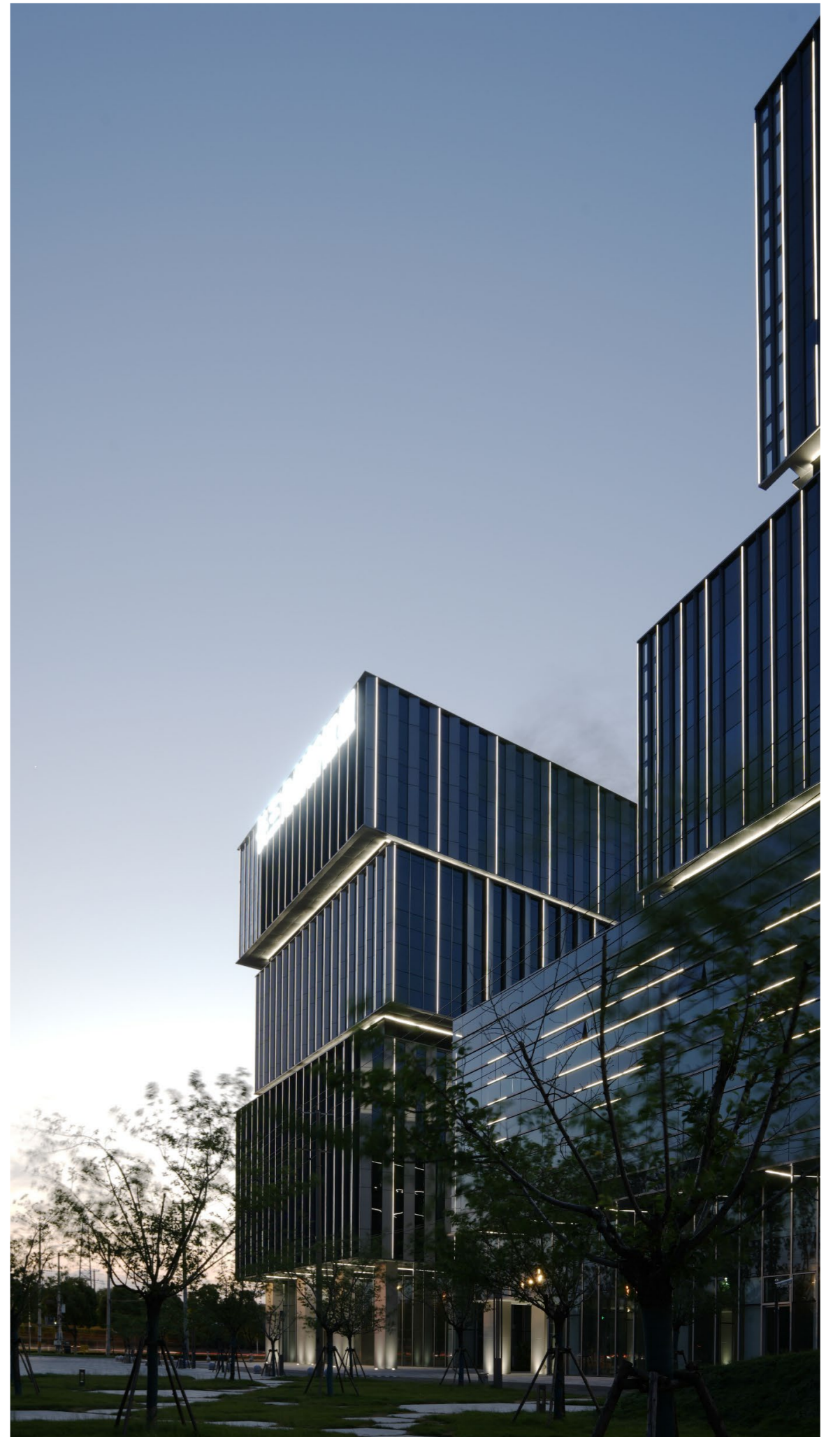
## Signal

Responding to the client's background in the telecommunications industry, we developed the façade concept from Morse code, transforming communication signals into an architectural language.

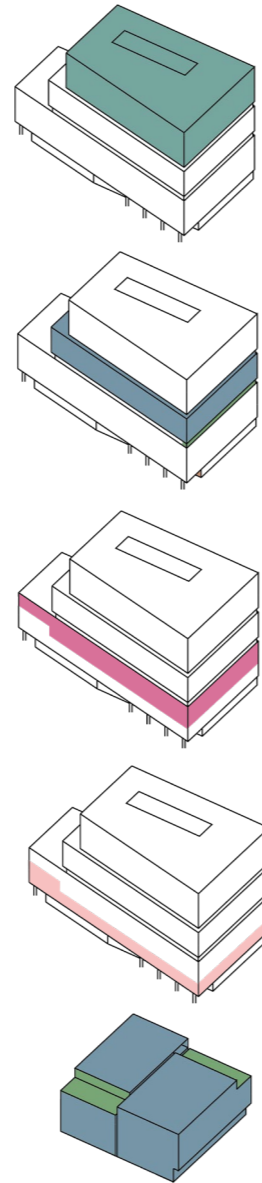
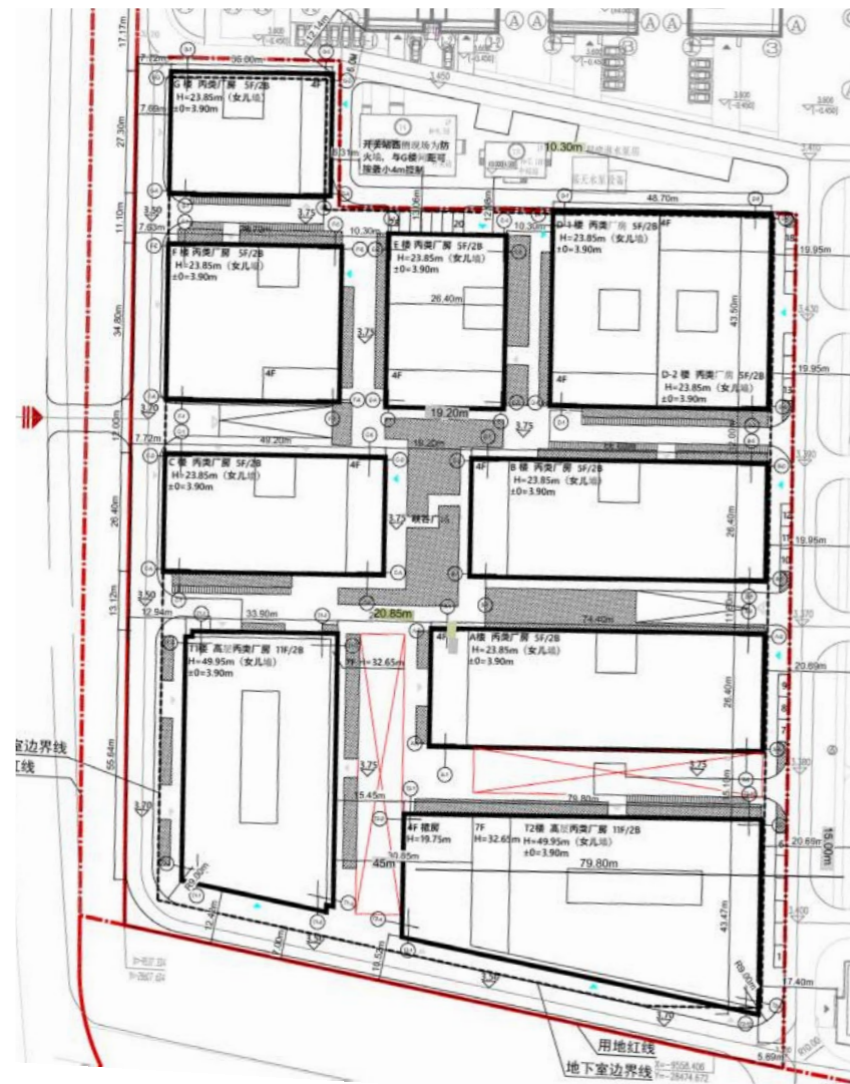
The shading louver system creates a rhythmic variation across the tower envelope, while also responding to the internal program of the enterprise incubator.

Behind the façade, the changing density and orientation of the louvers bring different qualities of light, privacy, and spatial atmosphere to the interior workspace.









**E-Mobile HQ**  
 Typical Floor Area: 2000 m<sup>2</sup>  
 No. Floors : 8-11

**Rental Office**  
 Typical Floor Area : 2290 m<sup>2</sup>  
 No. Floors : 5-7

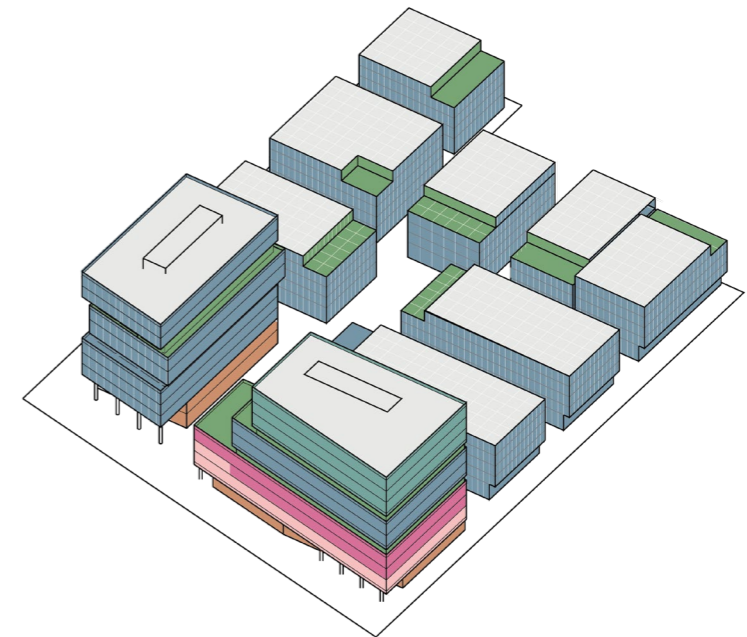
**Incubator**  
 Typical Floor Area: 2240m<sup>2</sup>  
 No. Floors 3-4

**conference center**  
 Typical Floor Area: 1800-1900 m<sup>2</sup>  
 No. Floors 2

**Office Villa for Sale**  
 Typical Floor Area: 950-2000 m<sup>2</sup>  
 No. Floors : 1-5

# Product Upgrade

During the schematic design stage, we worked closely with the client to refine the project's office product strategy and commercial planning. Within Tower T2, the program combined corporate headquarters, leasable office space, and an industrial technology incubator, allowing the building to support both self-use and market-oriented operation. The standalone buildings on the site were planned as headquarters products for small and medium-sized companies, creating a diversified office portfolio and helping maximize the client's long-term development value.



Lobby Design of T1 & T2 – Enscape Rendering



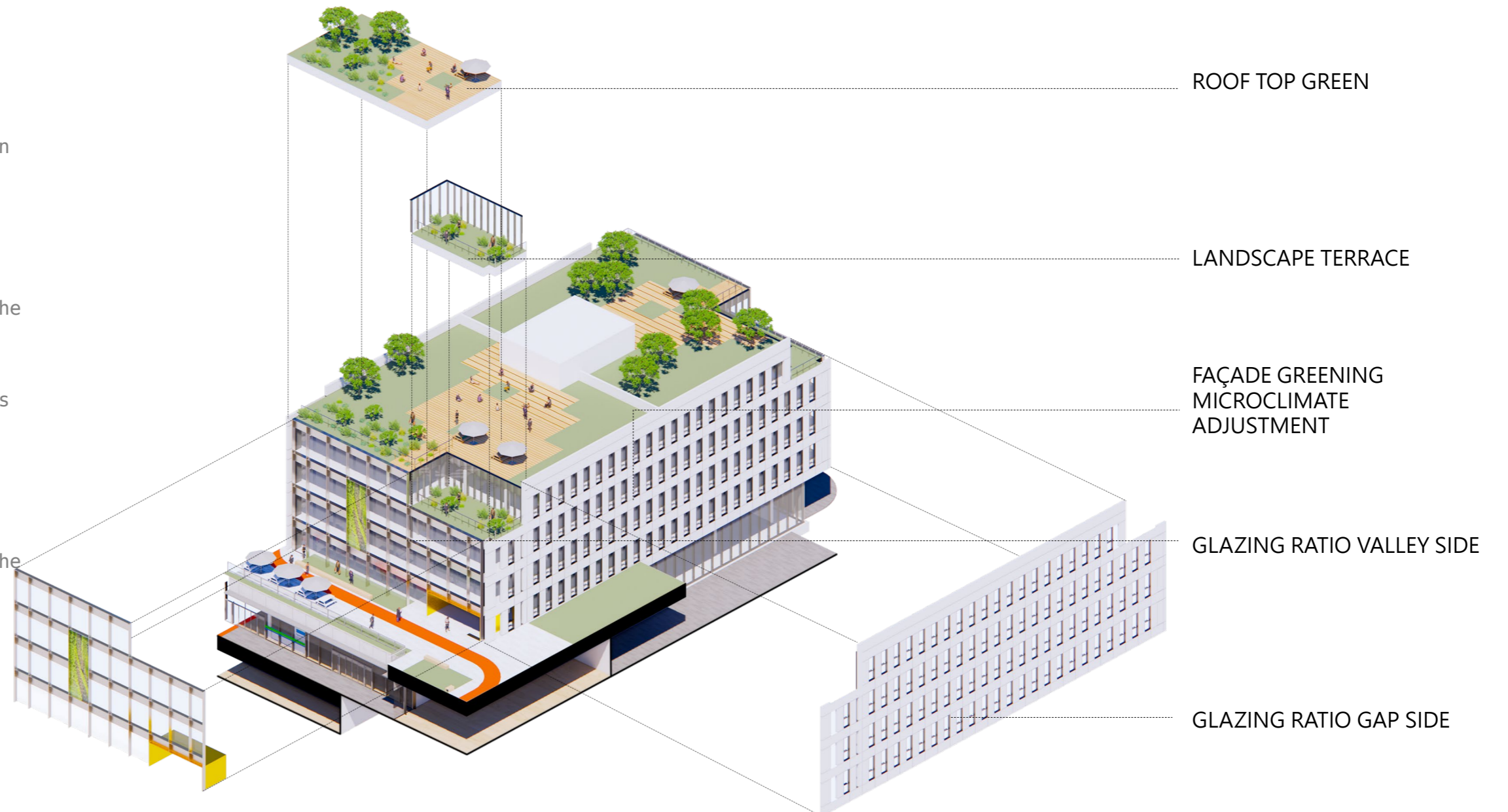
# Cost Optimization

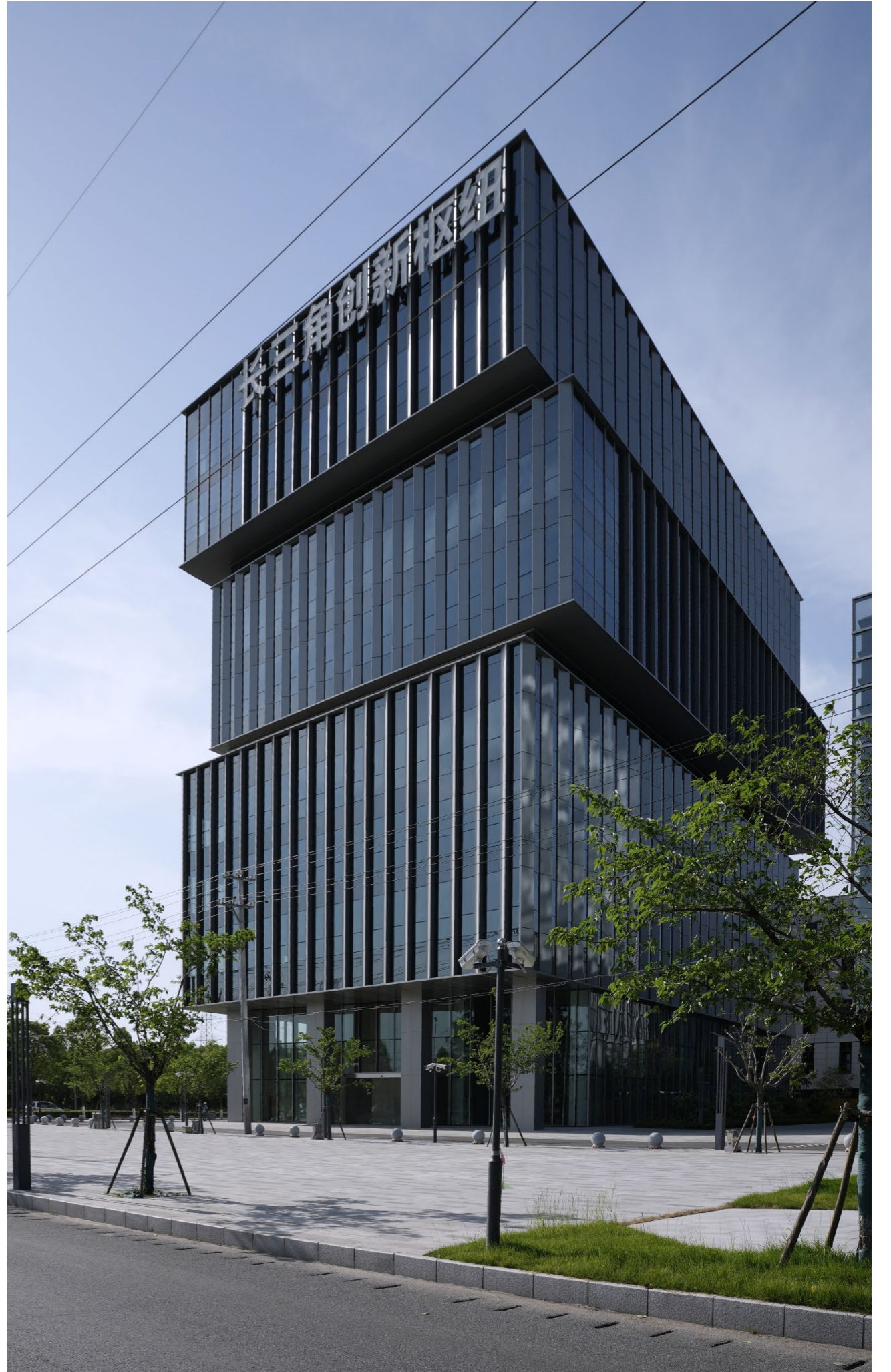
After winning the tender, we further optimized the façade design to balance architectural quality with construction cost.

The primary commercial elevations were reinforced to maintain the project's urban presence and brand visibility, while the secondary façades were simplified through coordination with the façade consultant.

During design development, the stepped roof terraces were preserved as much as possible to retain the spatial quality of the original concept.

At ground level, the façade was made more transparent, creating an open and visible showroom environment for the technology company and strengthening the building's public interface.





# JINAN CULTURE MEMORIAL PARK – VISITOR CENTER

**Typology:** Cultural

**Location:** Jinan, China

**Year & Area:** 2022 / 1,200 sqm

**Scope:** Architecture, Interior & Landscape

**Status:** SD DD CD CA / Complete

**Role:** Project Architect

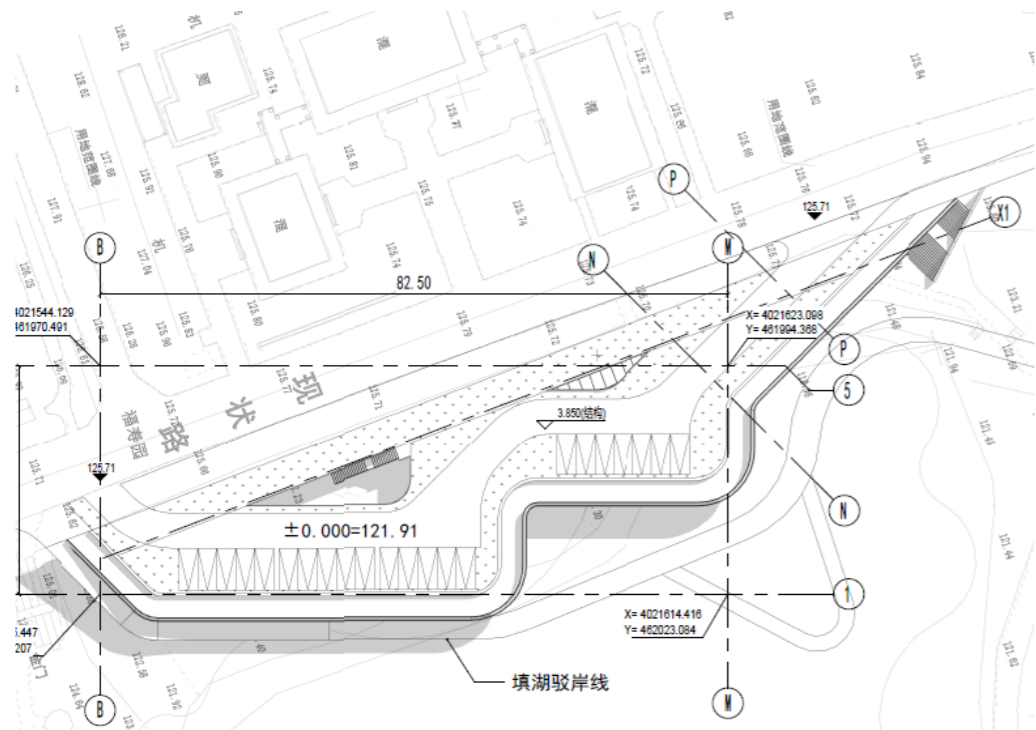
**Software:** Rhino / V-ray / Lumion / Enscape Render

# 04



# Site Conditions

- The project is located along an artificial lake, with the existing reception building approximately 4.5 meters above the lower site level.
- The client requested a new parking deck to serve the reception center, while using the space beneath it as a visitor service and exhibition center with VIP reception areas.
- We used the level difference to connect the building with the lakeside landscape, opening a clear visual corridor toward the water and creating a layered relationship between architecture, landscape, and arrival experience.



BEFORE

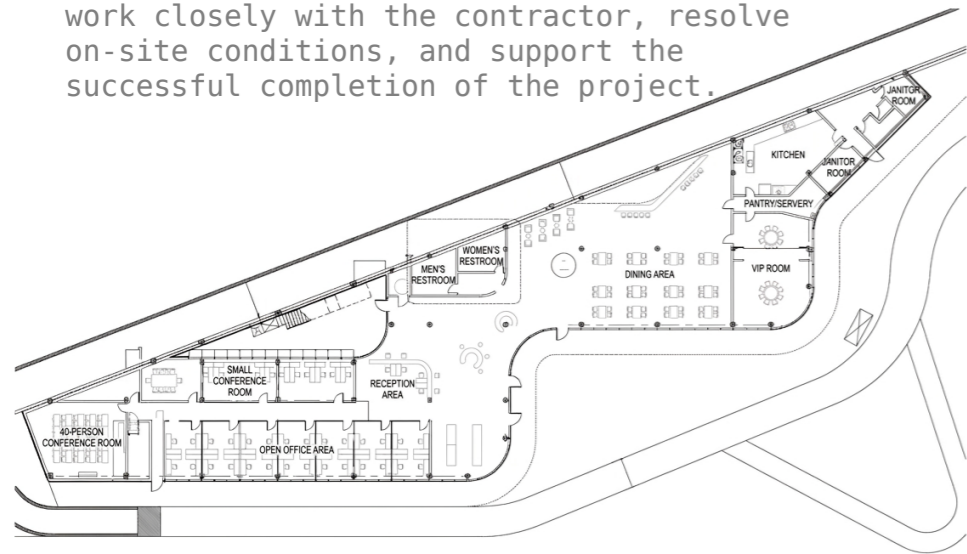


AFTER



# Construction

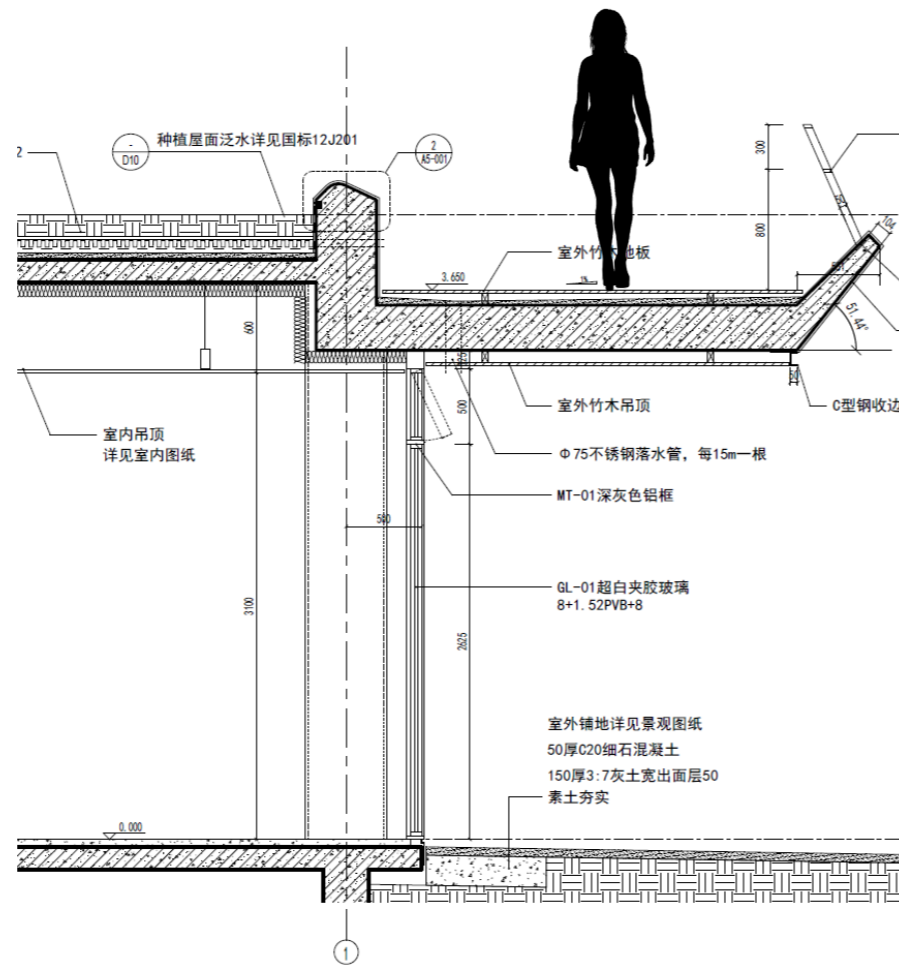
- Our scope covered the full design process, from concept design and design development to construction documentation, integrating architecture, interior design, and landscape disciplines.
- As the project lead, I was involved throughout the entire process, coordinating design decisions, technical documentation, and site implementation.
- The most challenging work involved rebuilding the site slope, reinforcing retaining walls, and reconstructing the lakeside landscape after the artificial lake was temporarily drained.
- We visited the site more than ten times to work closely with the contractor, resolve on-site conditions, and support the successful completion of the project.

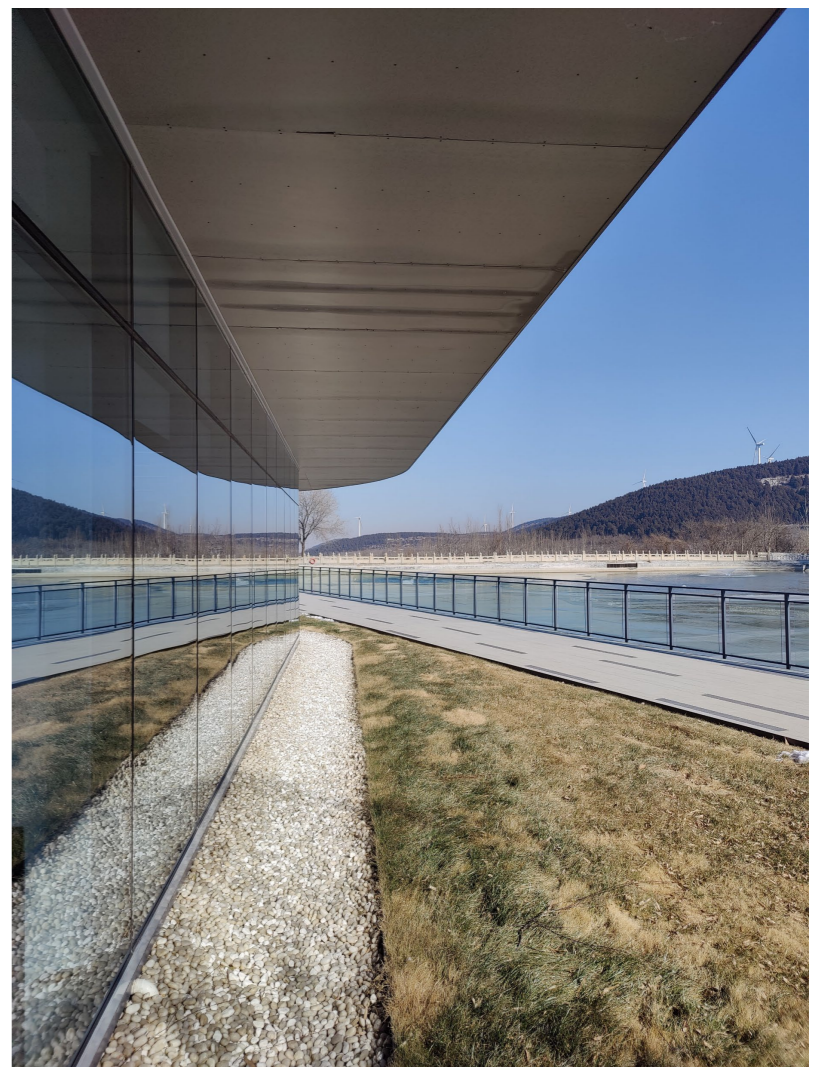
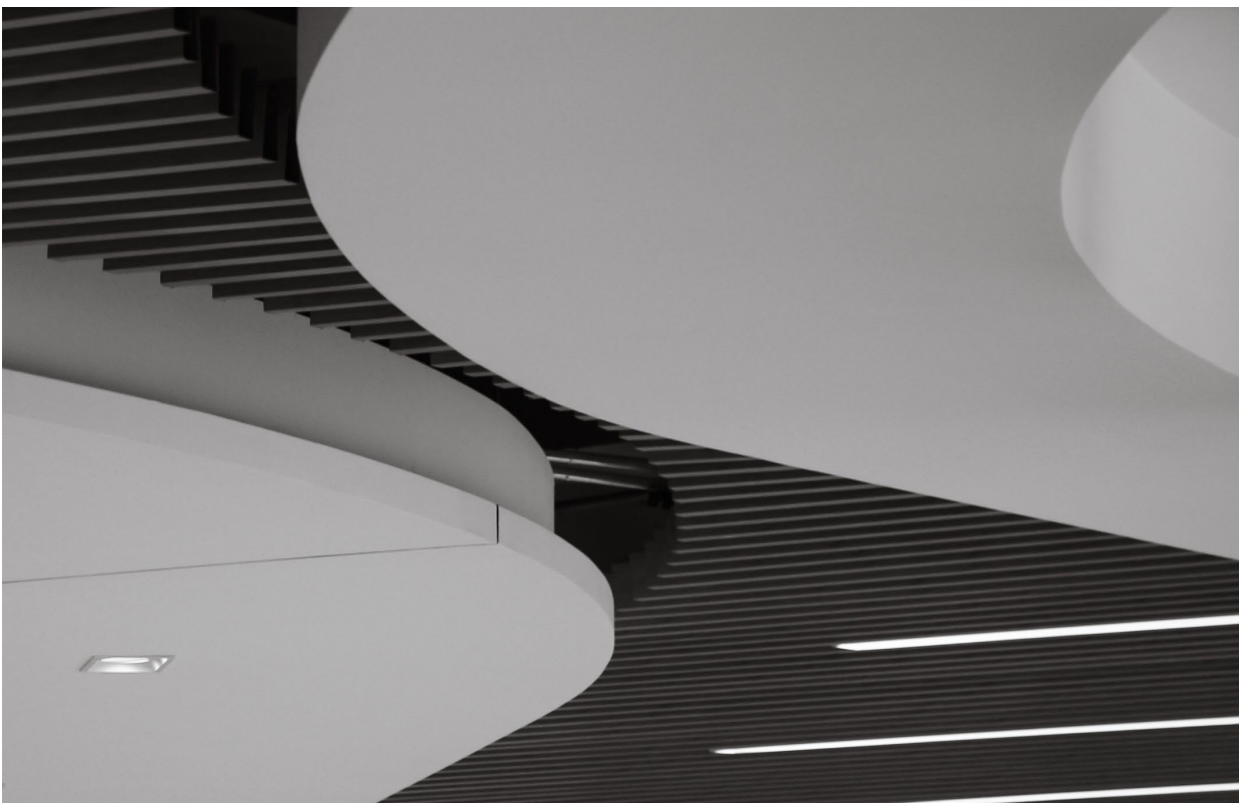




# Challenges

- The building envelope was carefully detailed to support the roof level as both a parking access route and a viewing platform overlooking the artificial lake.
- The roof walkway required a complete drainage strategy. Rainwater was collected through an internal drainage system, guided down through integrated columns, and discharged at the lower building level before flowing back toward the lake.
- Interior ceiling design was coordinated with the exterior soffit to create a continuous visual language from inside to outside, strengthening the spatial connection between the visitor center and the lakeside landscape.
- At the same time, the extended roof edge functions as an architectural canopy, providing solar shading and improving comfort for the interior and semi-outdoor spaces.





# YEW CHUNG INTERNATIONAL SCHOOL - RENOVATION

**Typology:** K-12 Educational

**Location:** Shanghai, China

**Year & Area:** 2022 / 1510 sqm

**Scope:** Architecture & Interior Renovation

**Status:** SD DD CD CA / Complete

**Role:** Project Architect

**Software:** Revit / Enscape Render

# 05



# Renovation

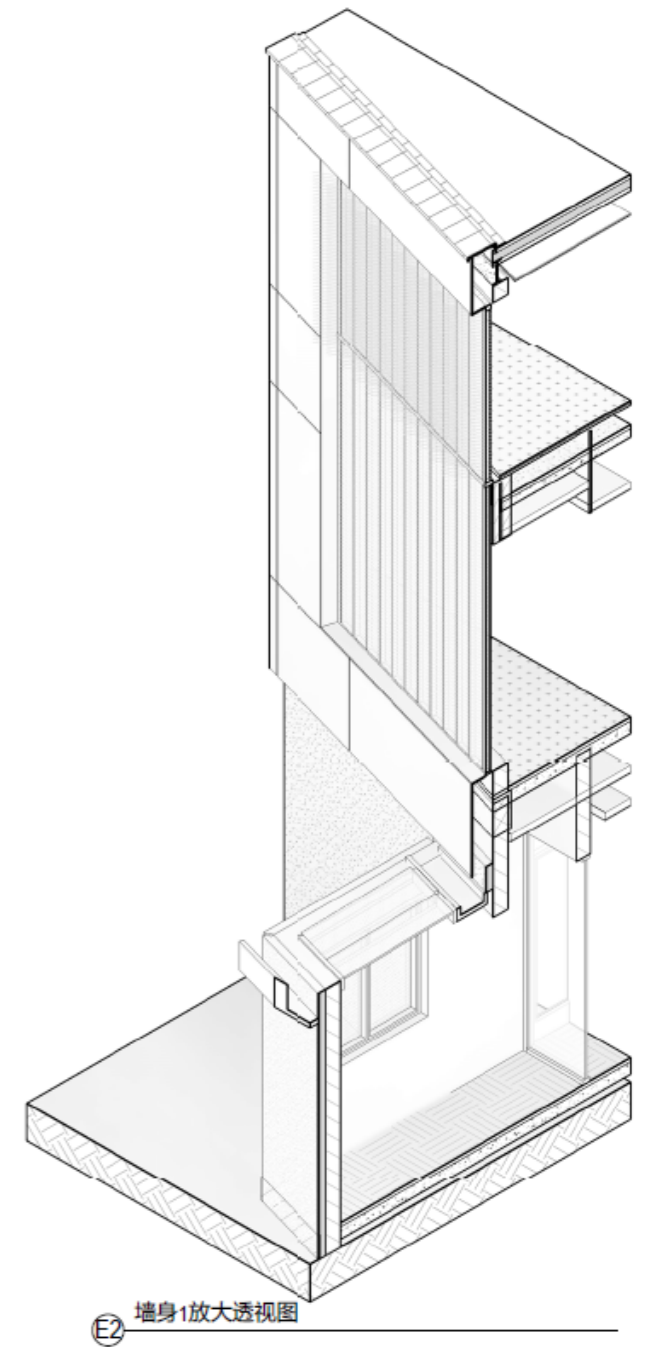
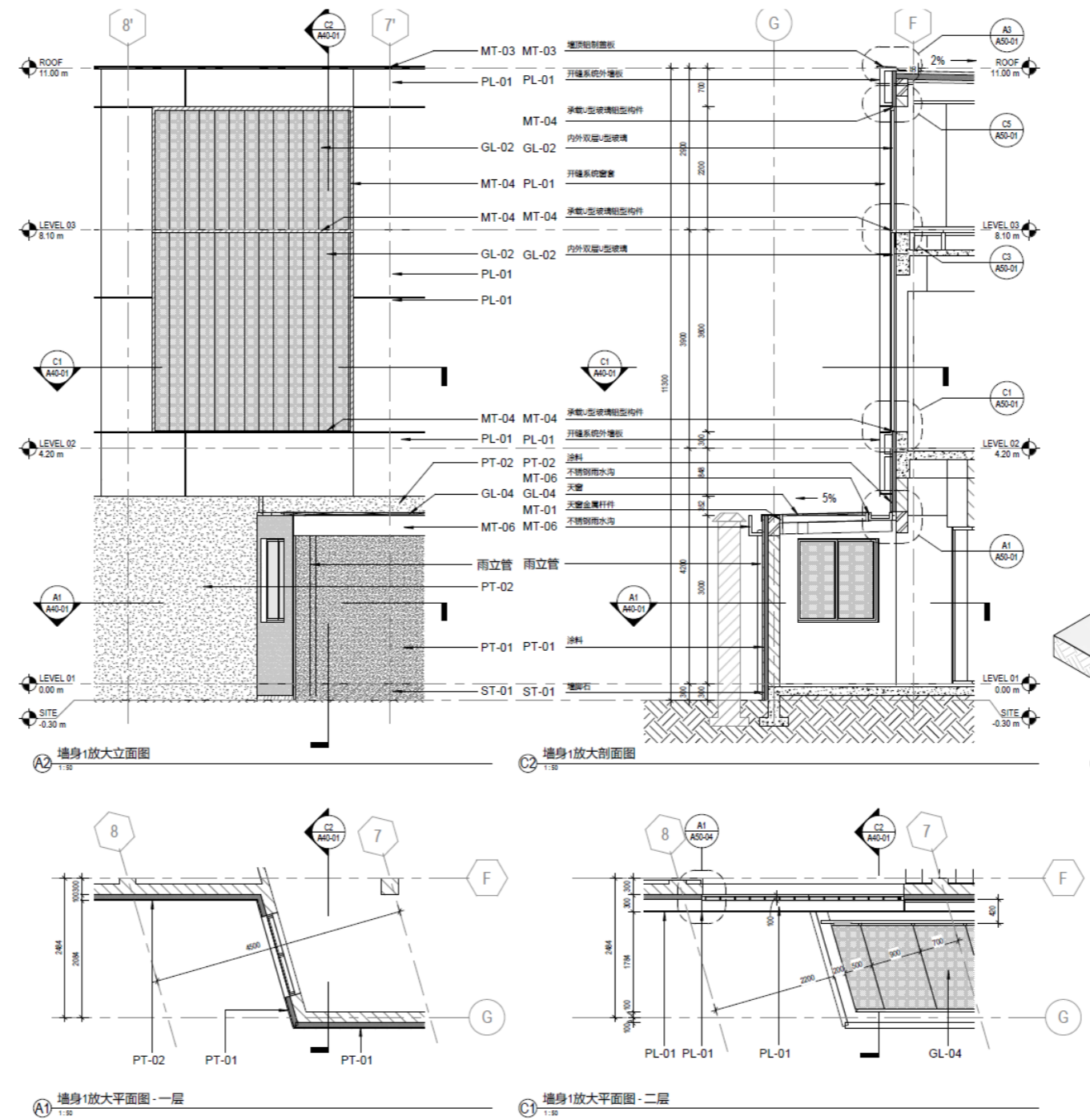
The original building was an international school academic building located within a residential neighborhood.

The client requested an additional floor above the existing structure, requiring a careful review of structural capacity, façade condition, and construction feasibility.

Following site investigation, we proposed structural reinforcement to support the vertical extension and improve long-term building performance.

Throughout the process, we used Revit-based BIM modeling to document the existing building, coordinate demolition and renovation works, and support design decisions from concept to construction documentation.

The renovation also required careful coordination with surrounding residents to manage construction impact and balance the school's operational needs with the neighborhood context.

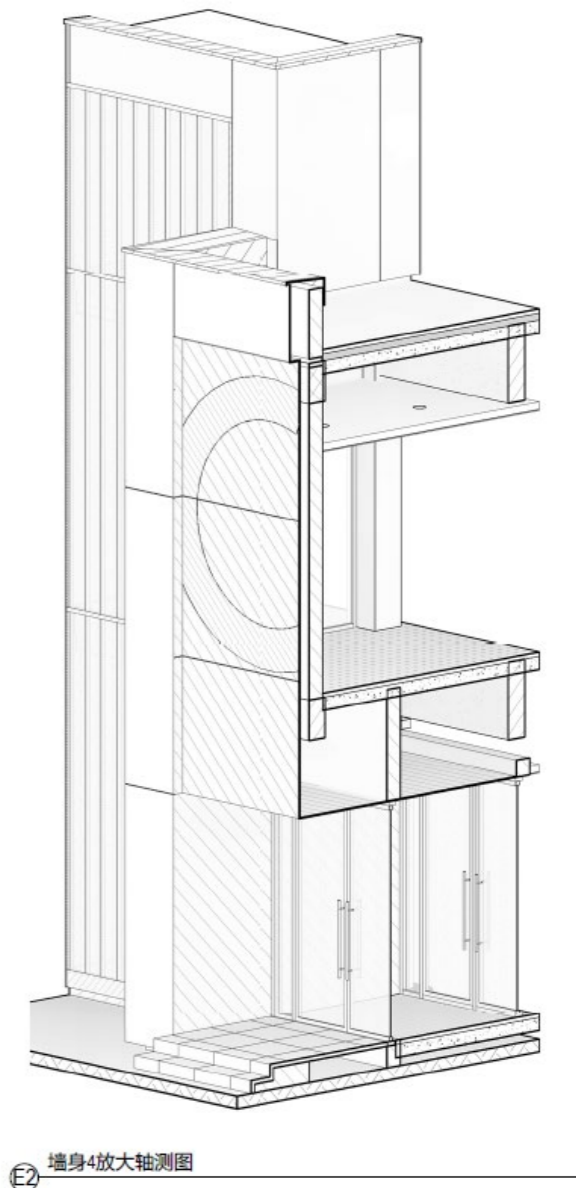
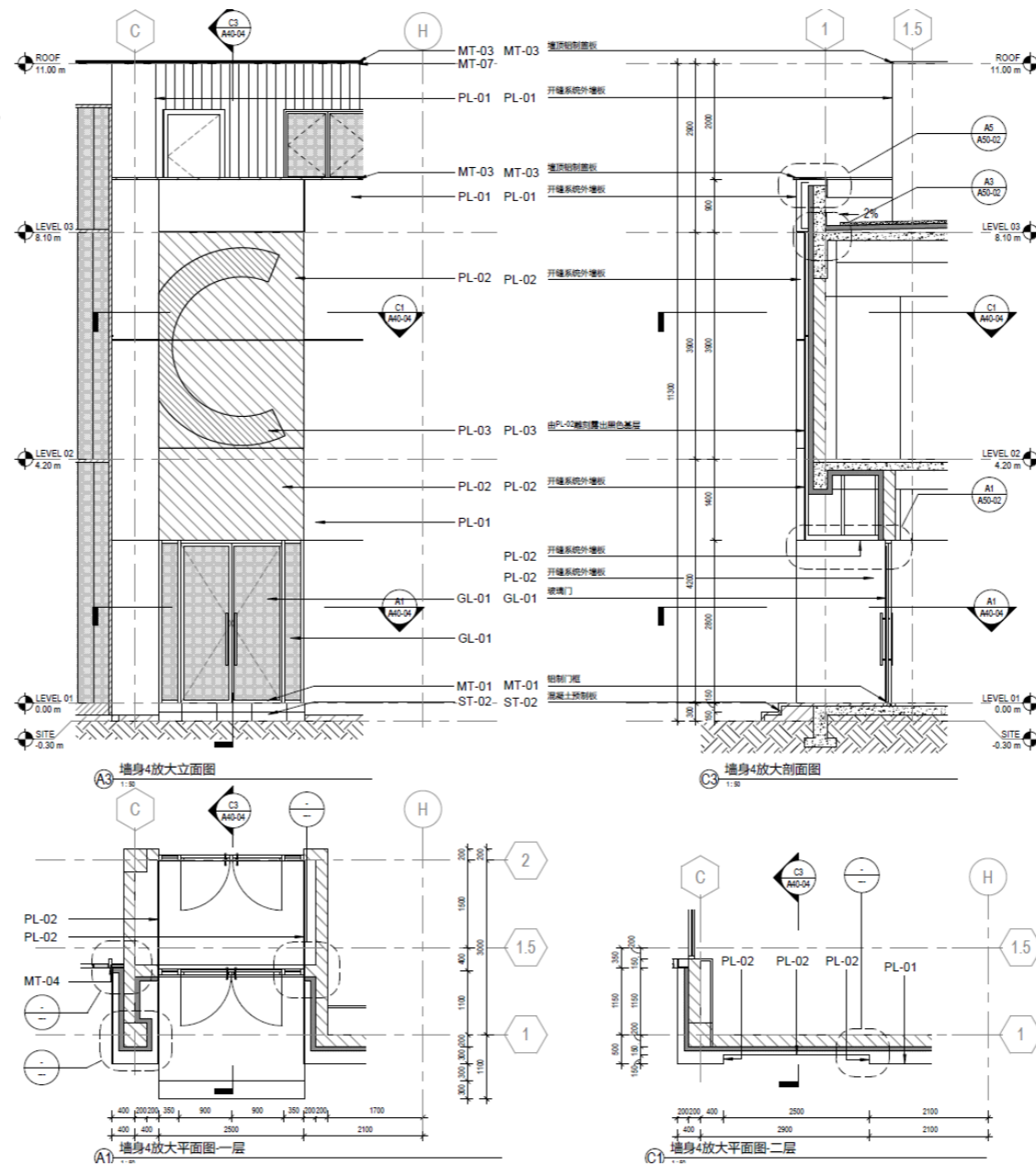
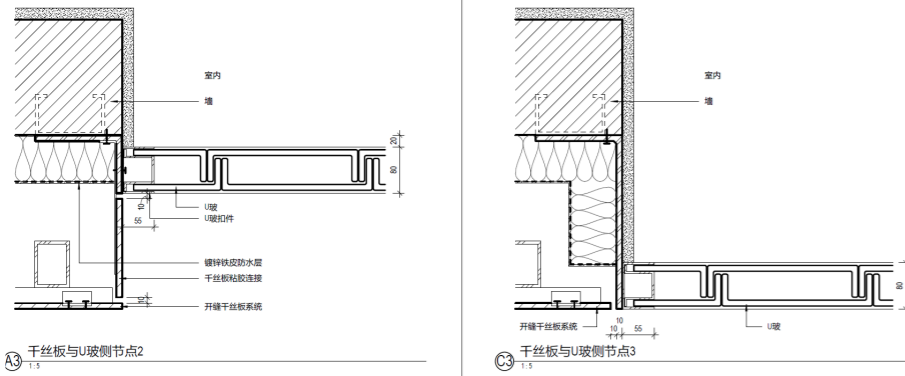


# Facade

We tested multiple U-glass products from different manufacturers, comparing variations in color tone, translucency, surface texture, and light diffusion.

After several rounds of material review, frosted U-glass was selected to achieve the desired architectural effect. The material allows abundant diffused daylight to enter the classrooms while maintaining a necessary level of privacy within the residential neighborhood.

This strategy helps create a calm and focused learning environment, reducing external visual distractions and allowing students to remain engaged throughout the school day.



# Interior Space

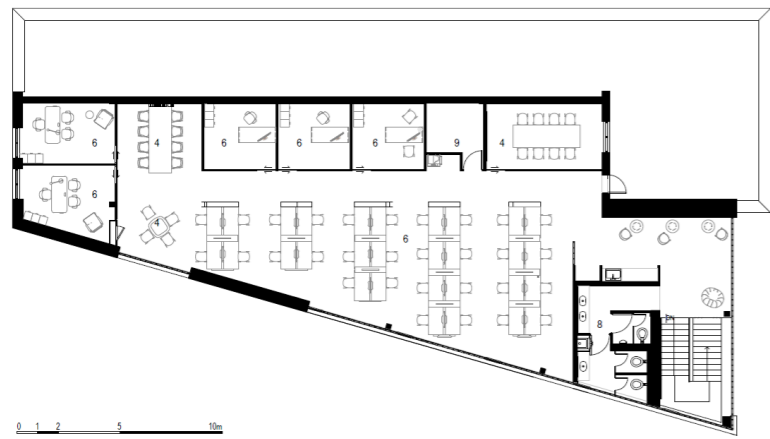
Through interior demolition and renovation, the previously narrow and enclosed teaching areas were opened into a series of continuous and flexible learning spaces.

By removing solid corridor walls, natural daylight from the exterior façade was able to penetrate deeper into the building, creating a brighter and more active educational environment.

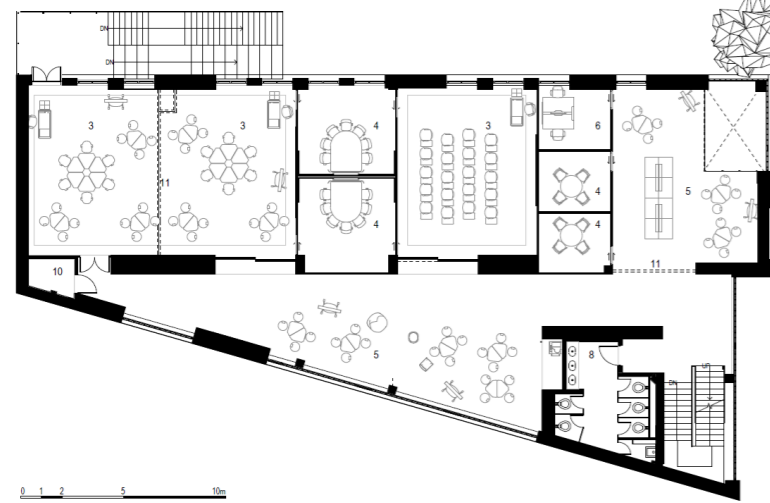
The redesigned interior also introduced shared public spaces for student interaction, allowing informal communication and social activities to happen between classes.

This transformation turned the building from a conventional classroom layout into a more open, adaptable, and engaging learning environment.

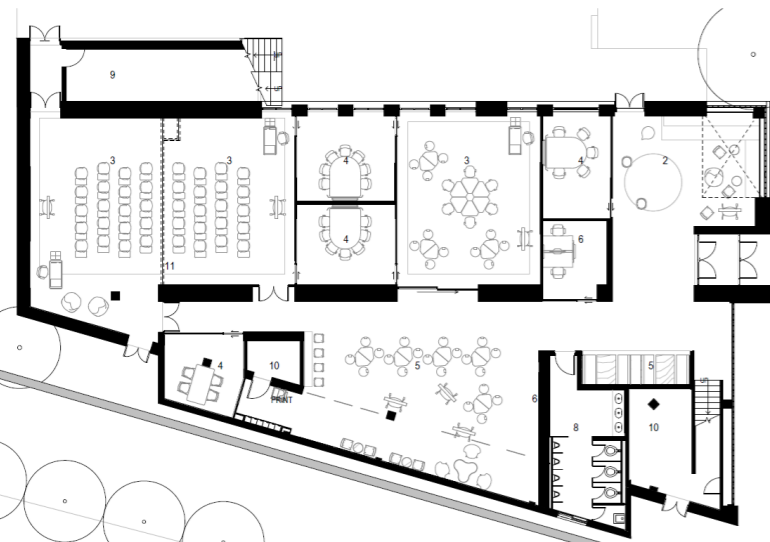




3<sup>RD</sup> FLOOR



2<sup>ND</sup> FLOOR



Ground FLOOR

- 1 主入口
- 2 门厅
- 3 教学空间
- 4 讨论室
- 5 休闲学习空间
- 6 教师办公室
- 7 水池
- 8 卫生间
- 9 楼梯间
- 10 设备用房
- 11 运动隔断

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- 9 楼梯间
- 10 设备用房
- 11 运动隔断



BEFORE



AFTER



BEFORE



AFTER

2022 上海耀中国际C楼改造项目

# ARTIST HOSTEL - HUANIAO ISLAND

**Typology:** Hospitality

**Location:** Zhoushan, China

**Year & Area:** 2020 / 250 sqm

**Scope:** Architecture Interior & Landscape

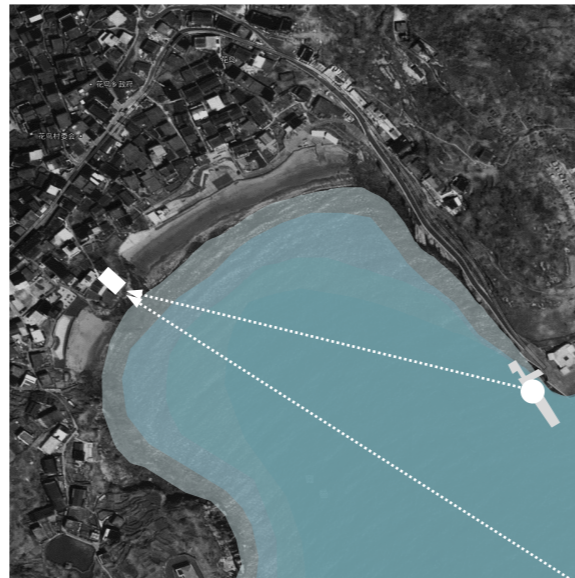
**Status:** Concept SD CD CA / Complete

**Role:** Project Architect

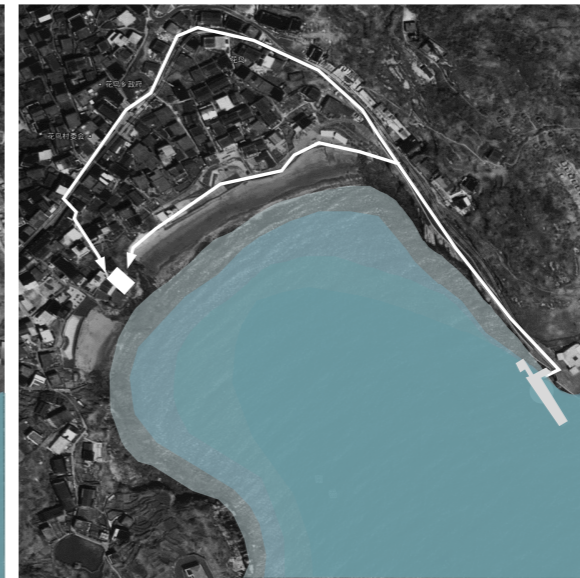
**Software:** Revit / Lumion / Enscape Render

# 06

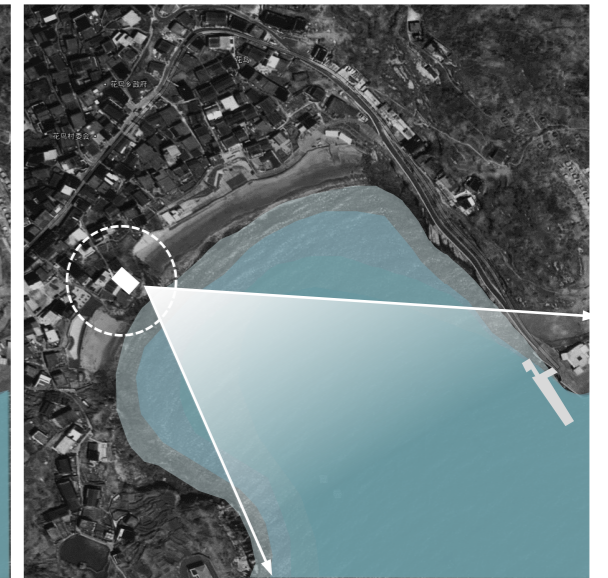




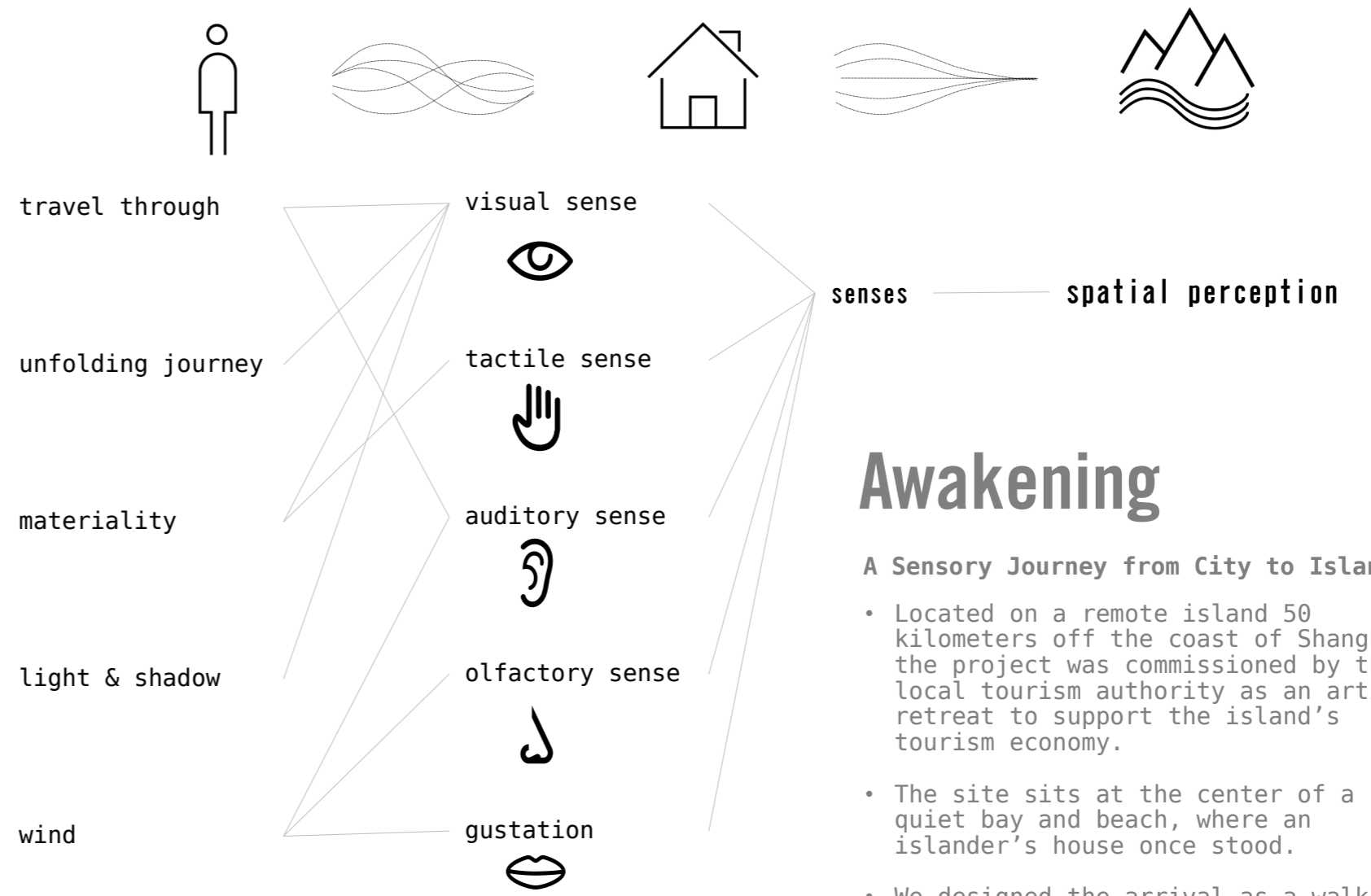
1. arriving to dock



2. explore the island



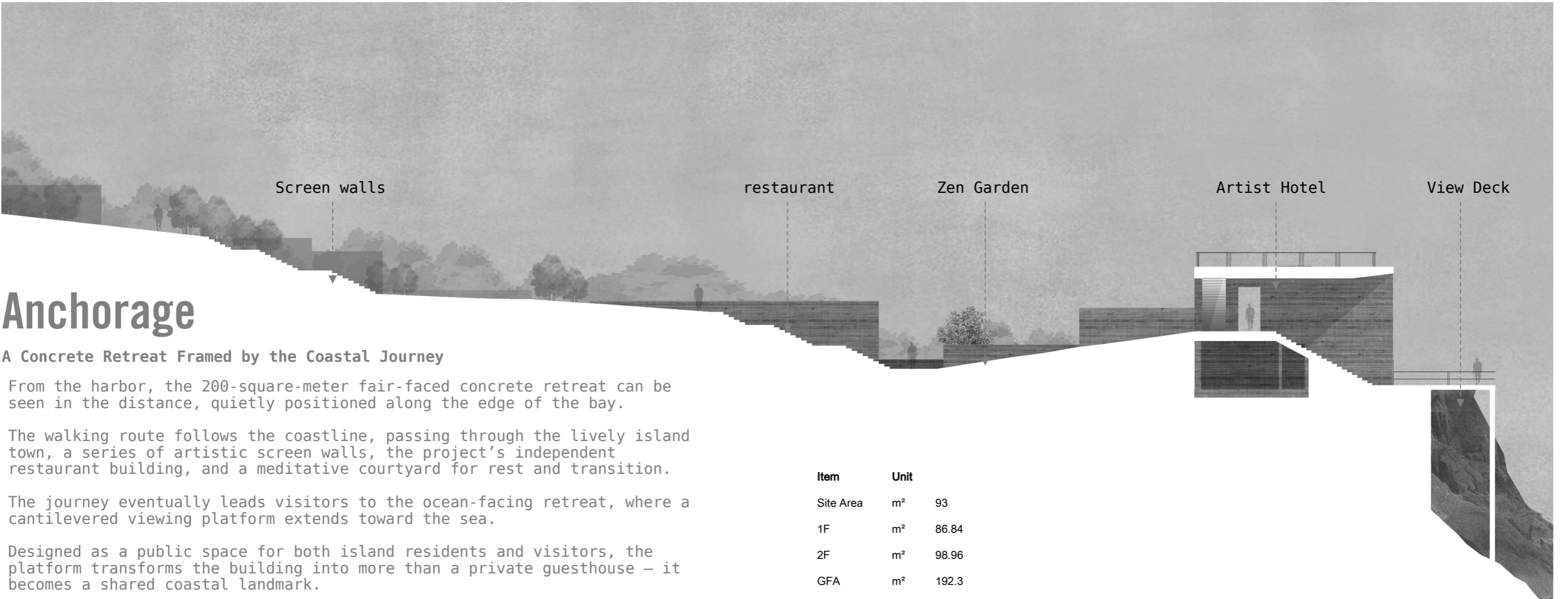
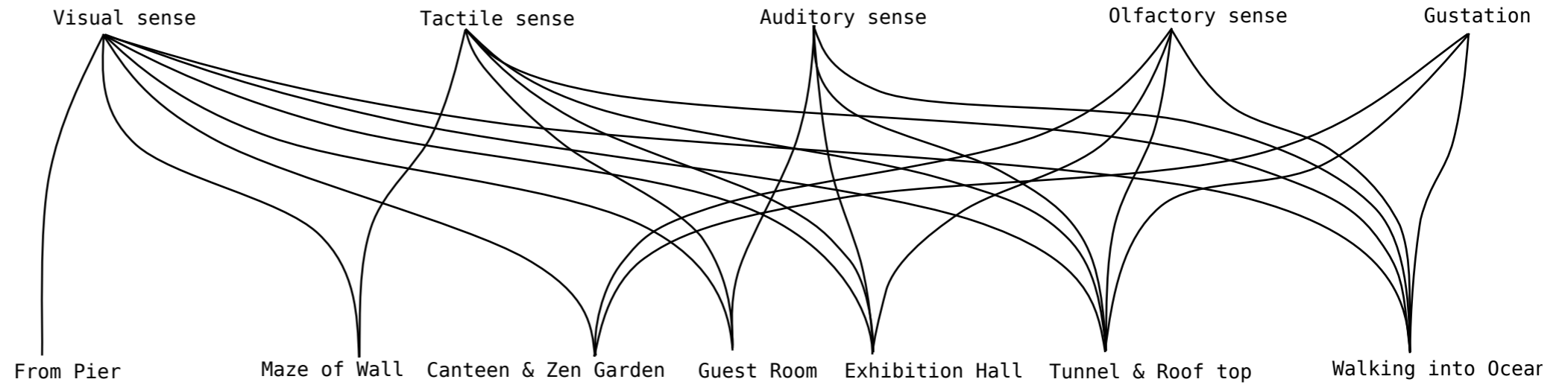
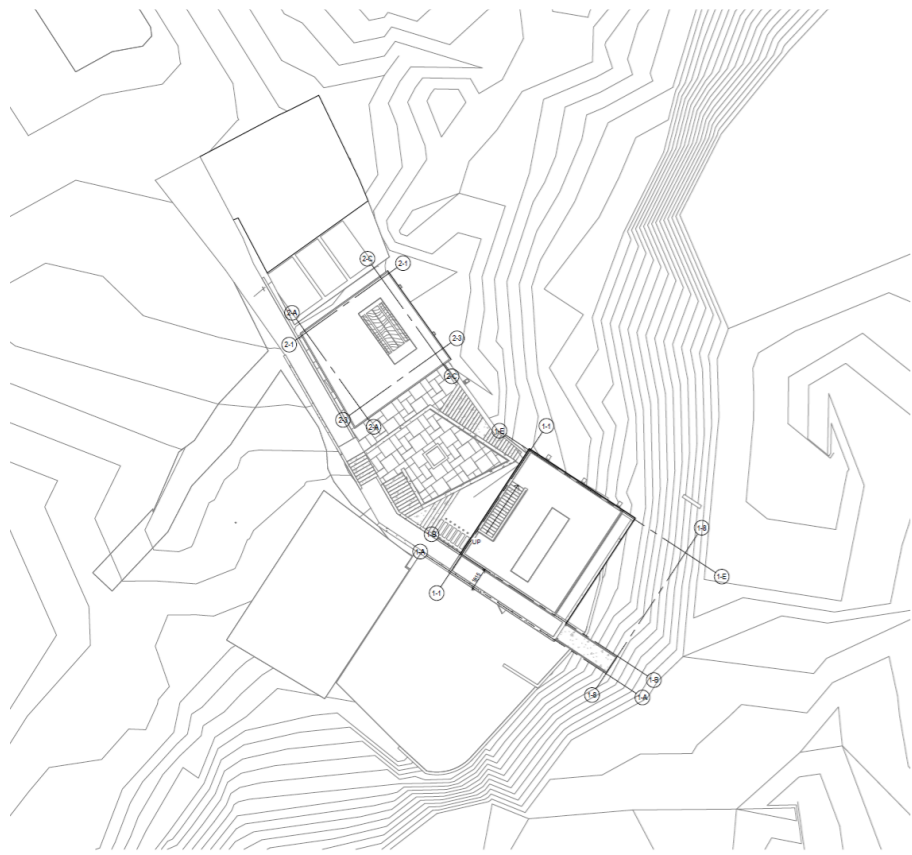
3. discover the house



# Awakening

## A Sensory Journey from City to Island

- Located on a remote island 50 kilometers off the coast of Shanghai the project was commissioned by the local tourism authority as an artist retreat to support the island's tourism economy.
- The site sits at the center of a quiet bay and beach, where an islander's house once stood.
- We designed the arrival as a walking journey from the harbor to the retreat, allowing visitors to gradually leave behind the rhythm of Shanghai and enter the sensory world of the island – through views, sea breeze, sound, texture, and local flavors.



# Anchorage

## A Concrete Retreat Framed by the Coastal Journey

From the harbor, the 200-square-meter fair-faced concrete retreat can be seen in the distance, quietly positioned along the edge of the bay.

The walking route follows the coastline, passing through the lively island town, a series of artistic screen walls, the project's independent restaurant building, and a meditative courtyard for rest and transition.

The journey eventually leads visitors to the ocean-facing retreat, where a cantilevered viewing platform extends toward the sea.

Designed as a public space for both island residents and visitors, the platform transforms the building into more than a private guesthouse – it becomes a shared coastal landmark.

Item	Unit	
Site Area	m <sup>2</sup>	93
1F	m <sup>2</sup>	86.84
2F	m <sup>2</sup>	98.96
GFA	m <sup>2</sup>	192.3
.....	.....	.....



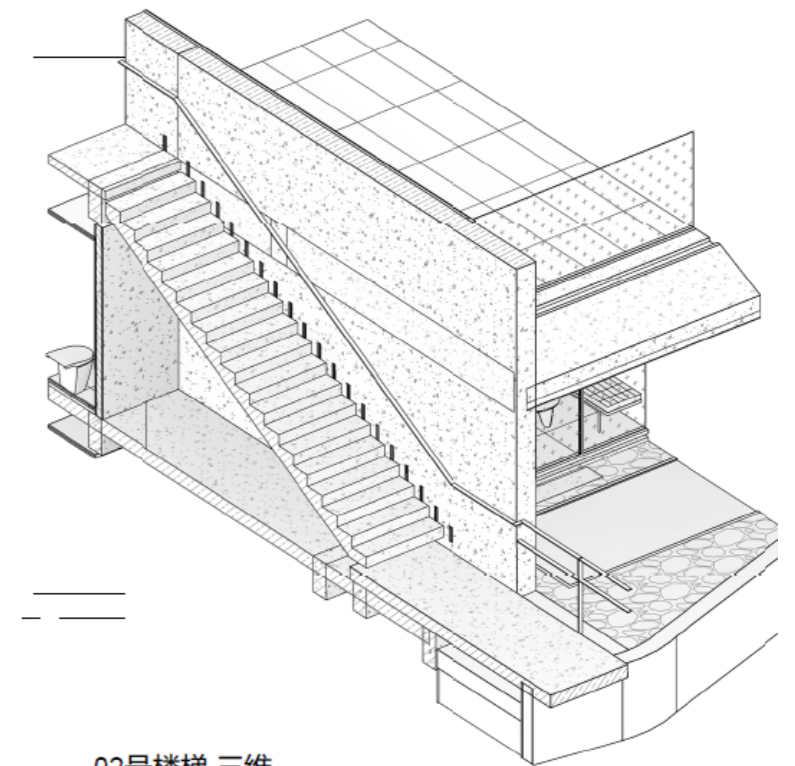
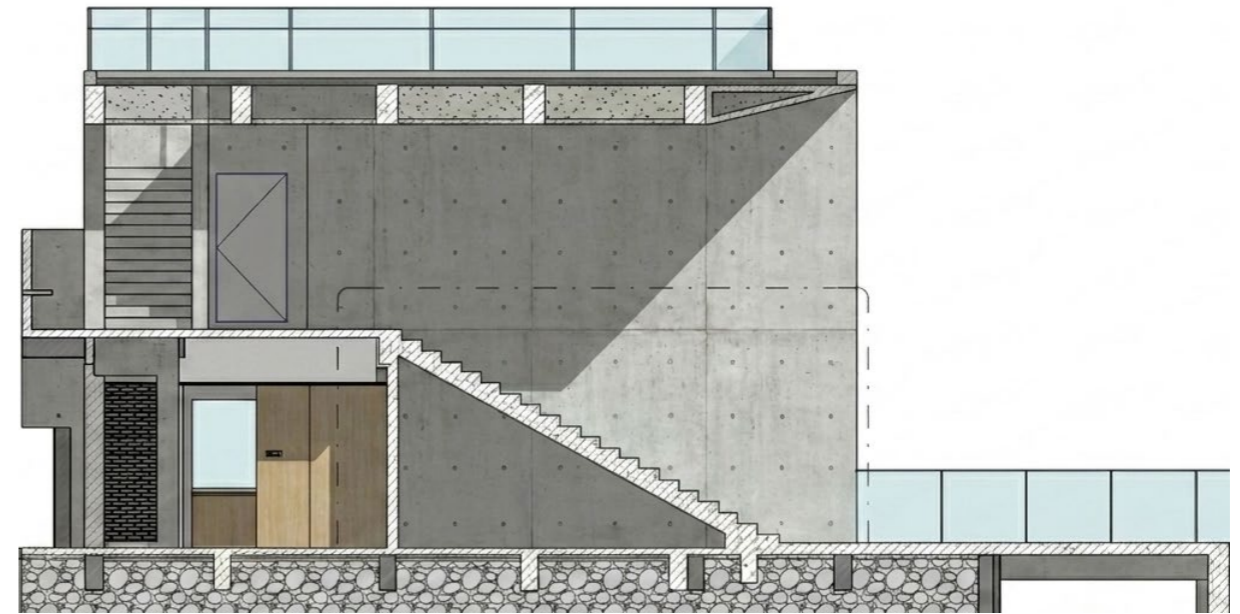
# Horizon

## A Shared Platform for Sunrise and Sunset

The cantilevered viewing platform was designed for both hotel guests and island residents, creating a public place to watch the sunrise and sunset.

Through an independent circulation strategy, the platform connects directly with the outdoor route and becomes part of the island's tourism experience.

This gesture turned the retreat into a recognizable coastal destination and one of the island's most photographed hotels, with a reported room rate of around USD 300 per night and an annual occupancy rate of approximately 80%.



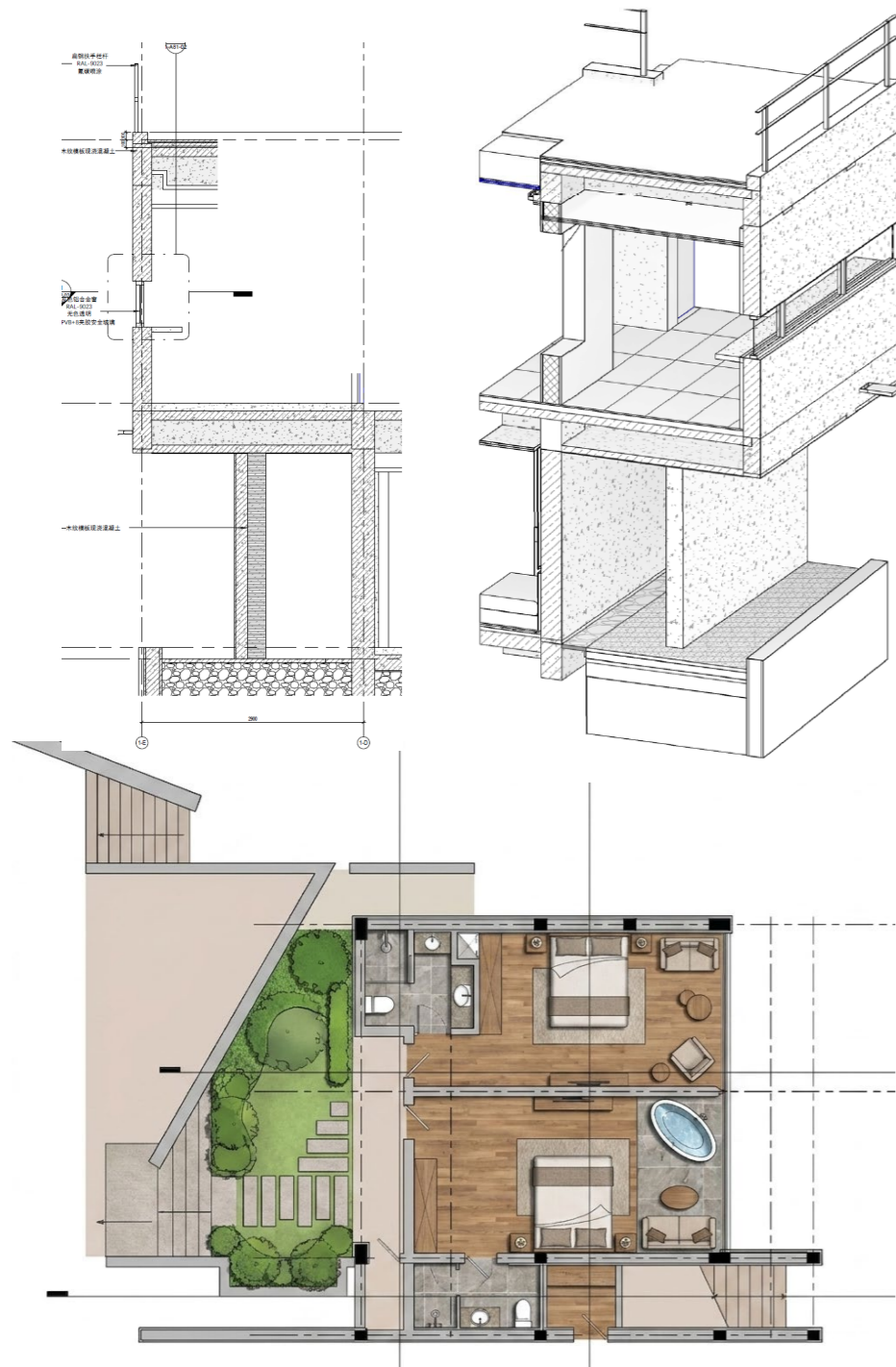
E3 02号楼梯 三维

# Mirage

## Pool, Roof Deck, and the Illusion of Floating above the Sea

The outdoor pool and rooftop water deck create an uninterrupted visual connection between the hotel, the sky, and the ocean.

By extending the guest experience toward the water, the design gives the retreat a dramatic sense of openness and creates one of its most memorable spatial moments. This unique setting turned the hotel into a popular photo destination and helped establish it as one of the most recognizable landmarks on Huaniao Island.



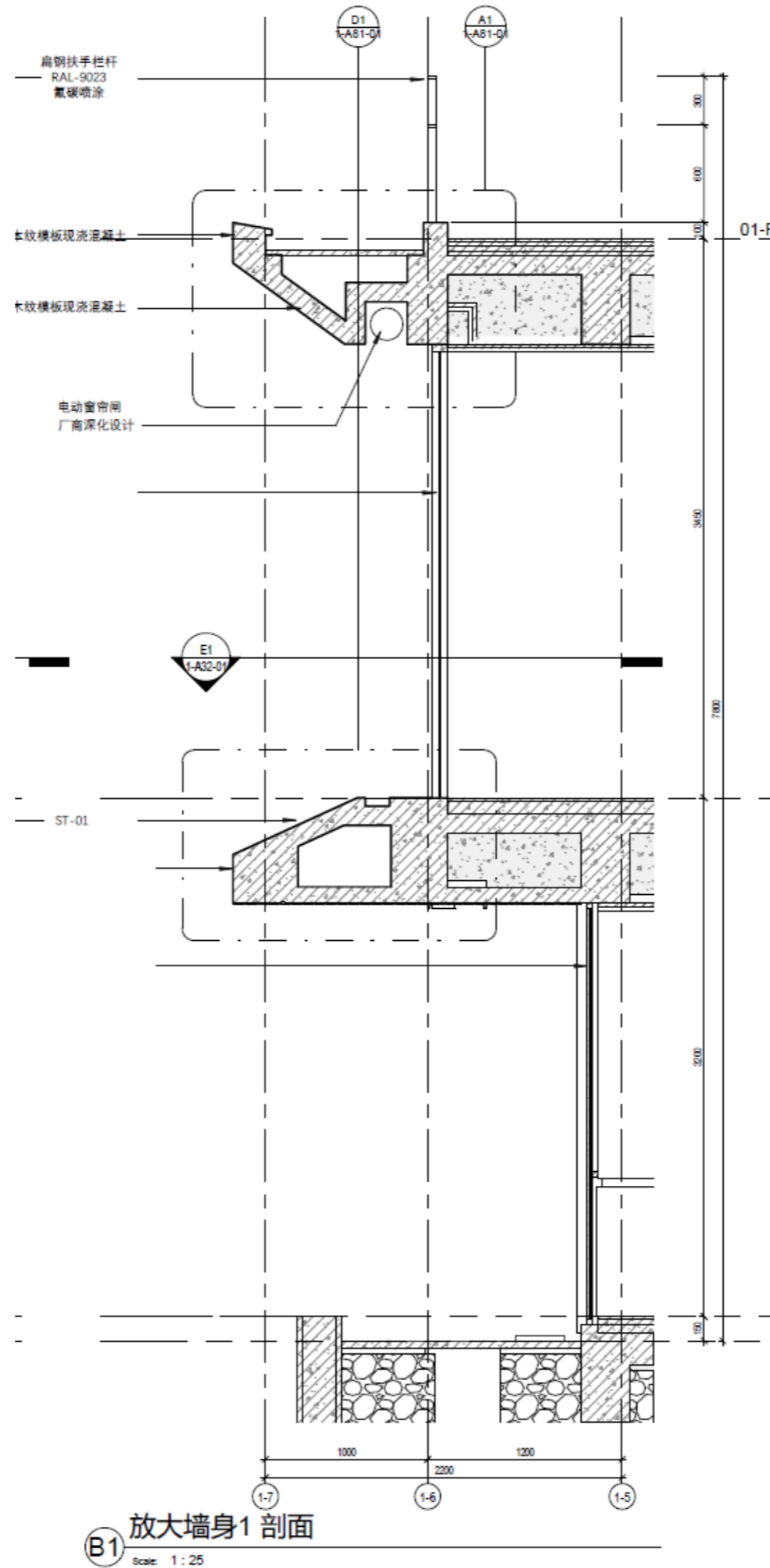
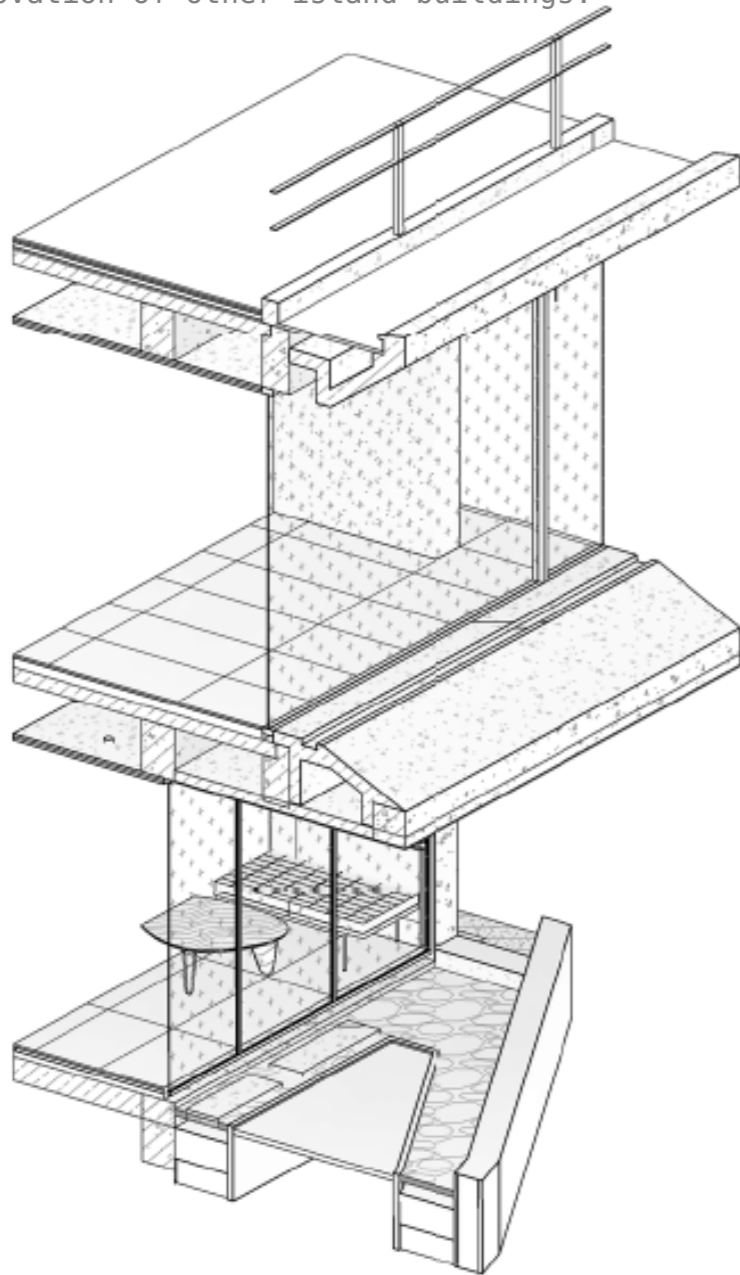
# Shelter

## Framing the Sea, Protecting against the Storm

The façade was designed not only to maximize the ocean view, but also to protect the building during the island's summer typhoon season.

Large openings frame the sea and bring the landscape directly into the guestroom experience, while concealed wind-resistant rolling shutters can be lowered when needed to provide additional protection.

Built with cast-in-place fair-faced concrete, the retreat forms a durable coastal structure and offers a prototype for the future renovation of other island buildings.



# SANJIANG FERRY TERMINAL

**Typology:** Hospitality  
**Location:** Zhoushan, China  
**Year & Area:** 2018 / 11,000 sqm  
**Scope:** Architecture & Masterplan  
**Status:** Planning SD / Unbuilt  
**Role:** Project Architect  
**Software:** Rhino / V-ray

# 07



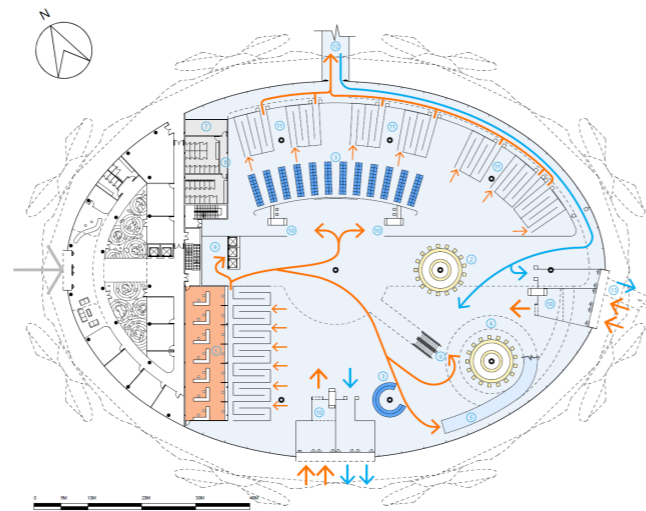
Inhouse render with V-ray / improved by AI

# Design Translation

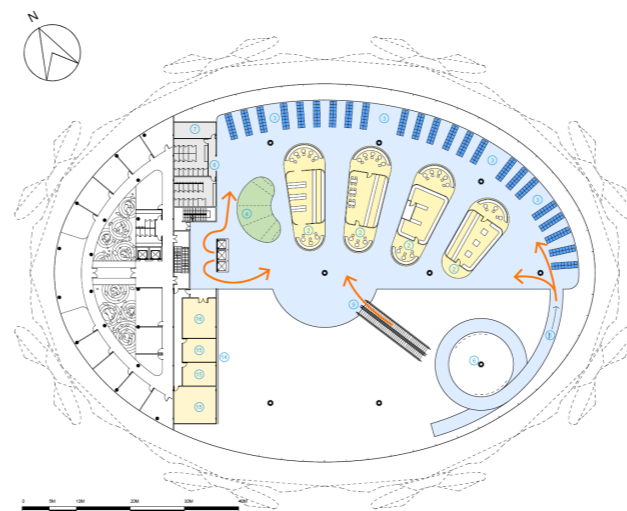
As the senior designer, I was responsible for translating the Design Director's "Lotus Ferry Terminal" concept into a buildable architectural proposal.

My work focused on developing the master plan, organizing the overall site layout, and producing the key architectural renderings that communicated the spatial vision of the project.

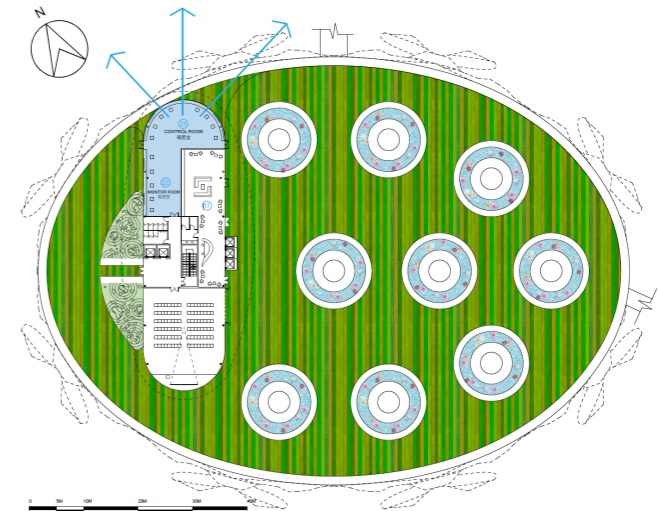
I also integrated the design drawings, visual materials, and narrative strategy into a coherent presentation package, supporting the final client presentation and helping clarify the project's architectural direction.



Terminal Ground Floor



2nd Floor



Roof Top

- PASSENGER HALL  
旅客大厅
- 1 TICKET BOOKING - 1 售票
- 2 CONCESSIONS - 2 商店
- 3 RESTROOMS - 3 卫生间
- 4 FAST FOOD - 4 快餐
- 5 WAITING AREA - 5 候车区
- 6 SECURITY CHECKPOINT - 6 安检
- 7 BOARDING GATE - 7 登船口
- 8 PUBLIC W.C. - 8 公共厕所
- 9 STAFF OFFICE - 9 员工办公室
- 10 SECURITY INSPECTION AREA - 10 安检区
- 11 SECURITY CHECKPOINT - 11 安检
- 12 BOARDING GATE - 12 登船口
- 13 PASSENGER CONCOURSE - 13 旅客候船区
- 14 INFORMATION DISPLAY - 14 信息显示屏
- 15 STAFF OFFICE - 15 员工办公室
- 16 SECURITY INSPECTION AREA - 16 安检区
- 17 ROOF TOP - 17 屋顶



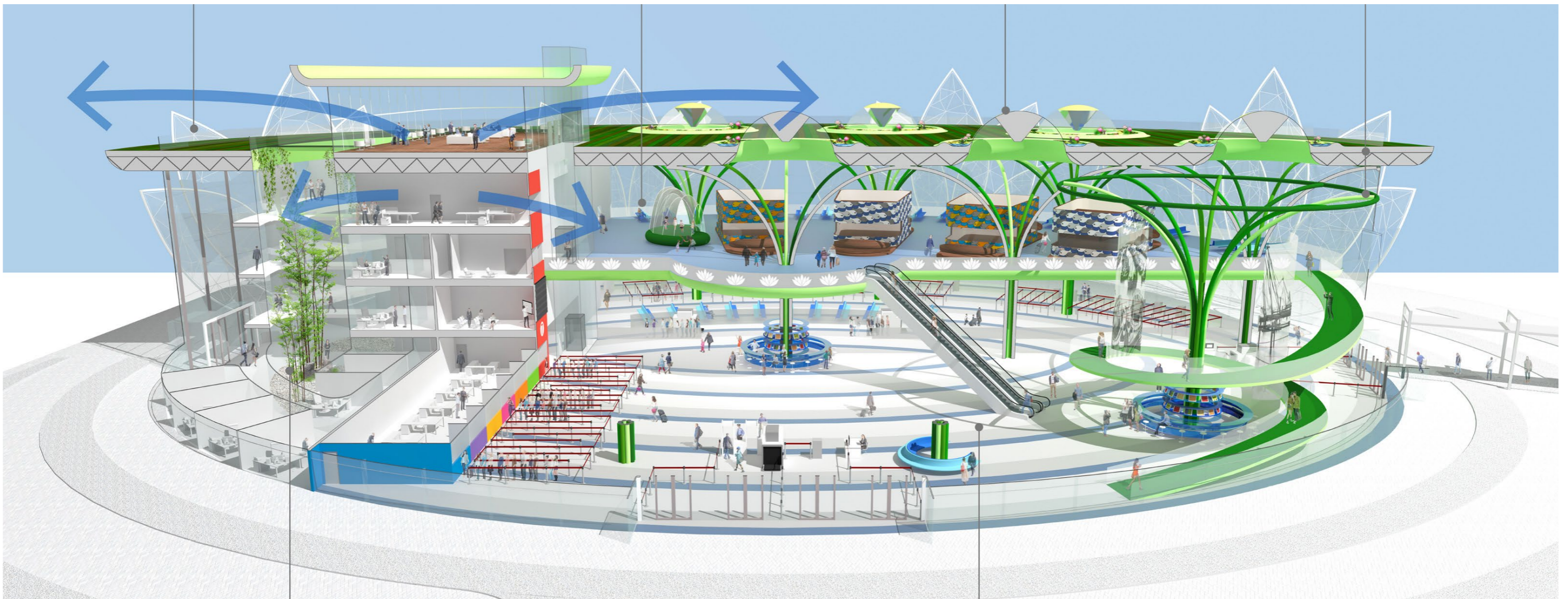
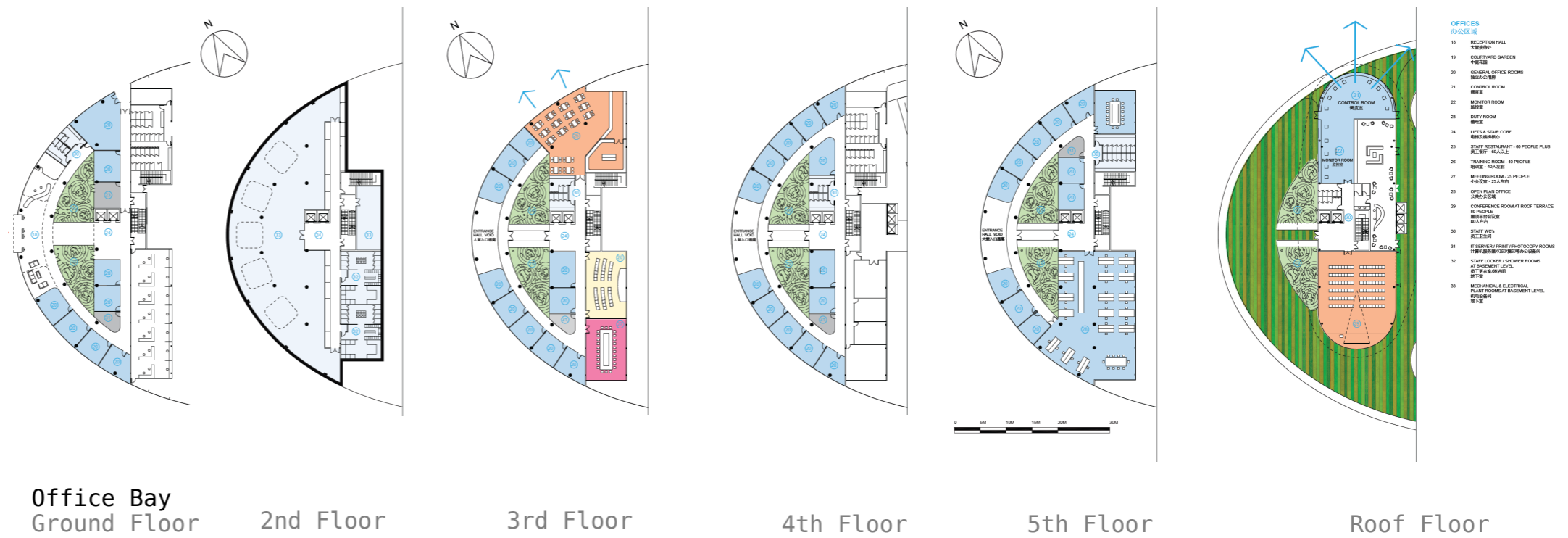
Inhouse render with V-ray / improved by AI

# Parametric Façade

During the design process, I built a complete Rhino model of the main reception hall and used Grasshopper to develop the parametric metal mesh façade, translating the lotus pattern into a contemporary architectural envelope.

The terminal was organized with the ground floor serving as the primary transportation and passenger circulation level, while the second floor provided commercial functions and elevated public space.

The office component was organized across five levels, with a dispatch control center located on the top floor to provide a commanding view over the surrounding sea.



# Terminal Flow

The master plan had to accommodate both pedestrian ferry passengers and vehicle ferry circulation. In the car waiting area, we proposed solar charging devices to improve user comfort and support sustainable mobility.

At roof level, the "lotus seed" elements were designed to reflect sunlight into the interior, enhancing the quality of the reception hall with natural light and reinforcing the symbolic identity of the terminal.

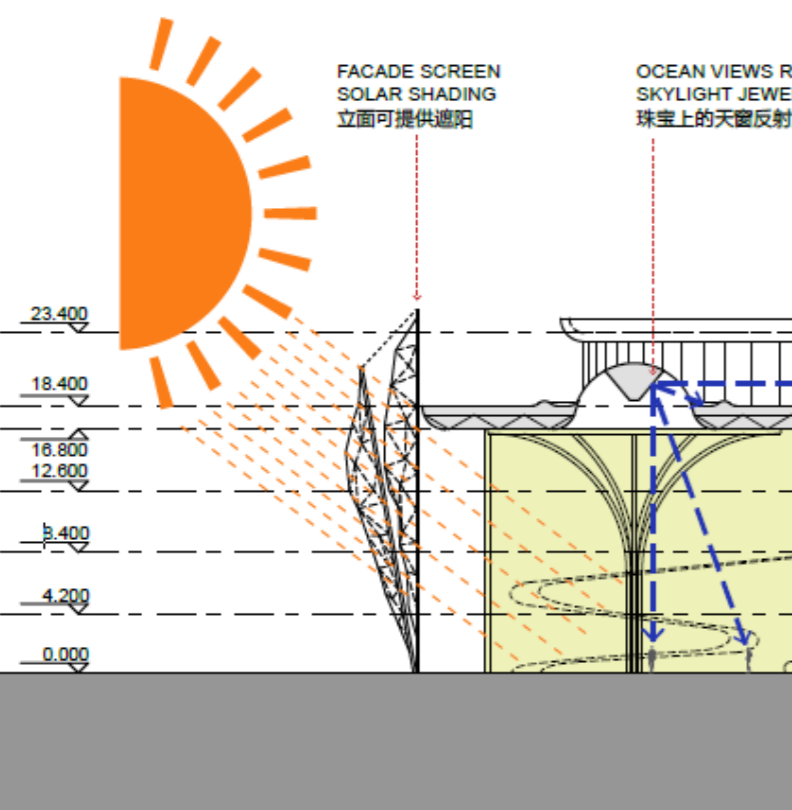
MASTER PLAN FUNCTIONS TABLE 总平面功能表	
1	SAN JIANG LOTUS - FERRY TERMINAL BUILDING 三江莲花 - 客运中心办公候船综合楼
2	VEHICLE WAITING AREA 待渡车辆等候区
3	PUBLIC TRANSPORT SYSTEM - BUSES & TAXIS 公共交通系统 - 公交车、出租车、长途客车
4	24 HOUR PASSENGER PARKING 24小时社会车辆停车区
5	ENTRANCE PLAZA 站前广场
6	PRIVATE OFFICE PARKING 办公停车场
7	BOATS RECEIVING VEHICLES & PASSENGERS ON FOOT 船只接收旅客与车辆
8	BOATS RECEIVING PASSENGERS ON FOOT ONLY 船只供旅客专用
9	OFFICE 办公区域
10	TICKET KIOSK & CONTROL POINTS 车辆入口及收费闸机
11	GREEN FOREST BOUNDARY SEPARATION WITH EXISTING RESIDENTIAL COMMUNITY 分隔现有居住区的绿地
	VEHICLE WAITING AREA 待渡车辆等候区 10,000 平方米
	24HR PASSENGER AND PRIVATE OFFICE PARKING 24小时社会车辆及办公用停车场 20,000 平方米
	PUBLIC TRANSPORTATION: BUS & TAXI AREA 公共交通: 公交车、出租车、长途客车 12,000 平方米
	SITE AREA 基地面积 87,223 平方米
	GREEN RATIO 绿化率 20%



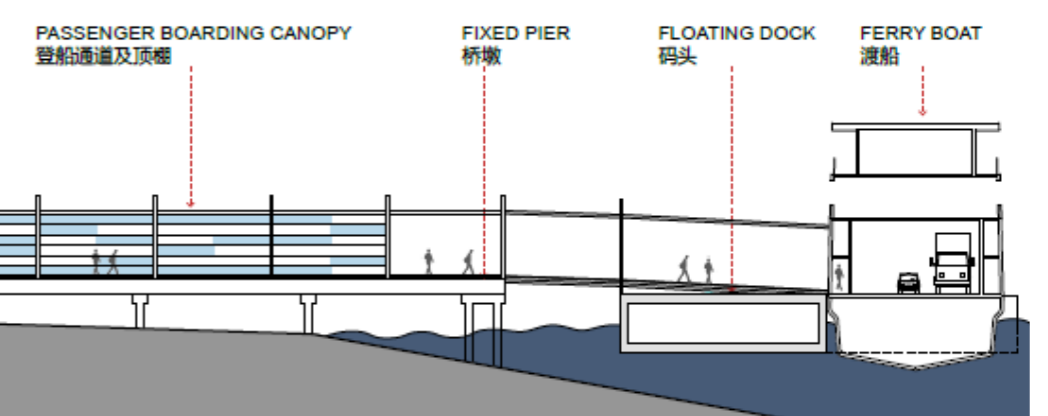
ADVANTAGES:  
优势:  
MEETS CLIENT REQUIREMENTS  
可满足业主要求

DISADVANTAGES:  
劣势:  
PARKING COMES CLOSER TO BUILDING  
停车场距离客运大楼较近

REFER TO RENDERERS PROPOSING PEDESTRIAN FRIENDLY LANDSCAPE  
采用对行人更为友好的景观设计, 参考效果图透视图



Master Plan - Option 1 - Optimized Traffic System 总平面图 - 选项1 - 交通系统优化



# SEVEN Al Hamra Theme Park - Interior

# 08

**Typology:** Theme Park

**Location:** Riyadh, Saudi Arabia

**Year & Area:** 2025 – Present & 168,000 sqm

**Scope:** Interior & Theme Contractor

**Status:** Concept SD CD CA / Complete

**Role:** Senior Design Manager & BIM Manager

**Software:** Revit / Autodesk Construction Cloud



Rendering provided by main contractor

# My Role

Our team was subcontracted to deliver design development and construction documentation for more than 5,000 square meters of indoor entertainment areas.

As Senior Design Manager and Site Coordination Manager, I acted as the key interface between the Beijing design team, the local project team, and the construction site.

My responsibility was to ensure that the drawings and BIM models met the required level of detail under local project requirements, including EU and US-based documentation standards.

At the same time, I coordinated closely with the site team to verify that construction works were aligned with the approved drawings, design intent, and buildability requirements.



Rendering provided by main contractor

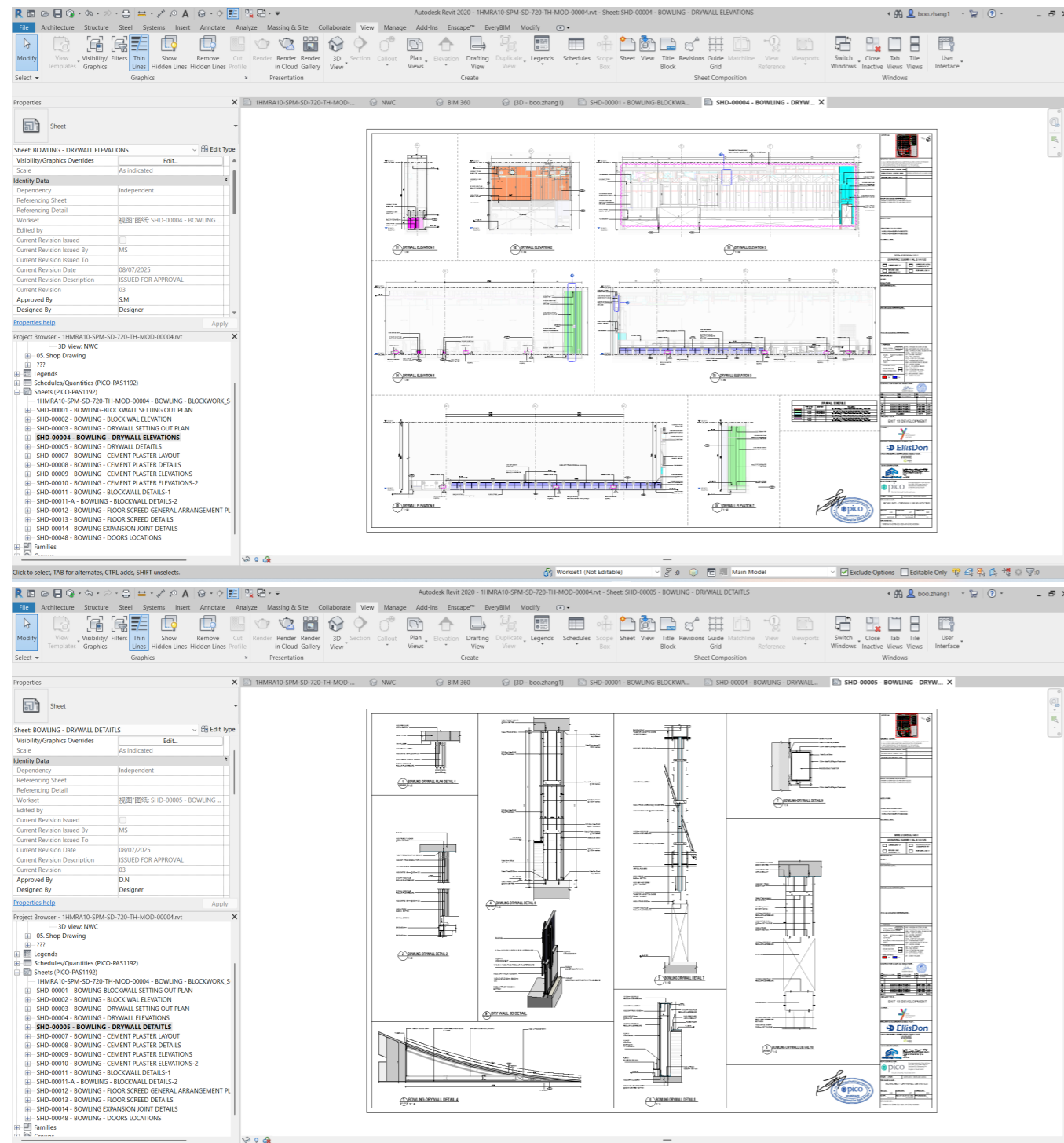
# Documentation Delivery

Our Beijing team was responsible for developing the original design package from LOD 300 into LOD 400 construction-ready documentation.

During this process, I coordinated vendor information, material data, and technical inputs from the local market, then translated them into clear instructions for the China-based design team.

I also explained local construction methods, detailing requirements, and project-specific standards to ensure that the drawings were not only well documented, but also buildable on site.

In parallel, I coordinated design interfaces with MEP subcontractors and FF&E teams, reviewed required revisions, and managed drawing updates to maintain consistency between design intent, technical requirements, and site execution.



# BIM Workflow

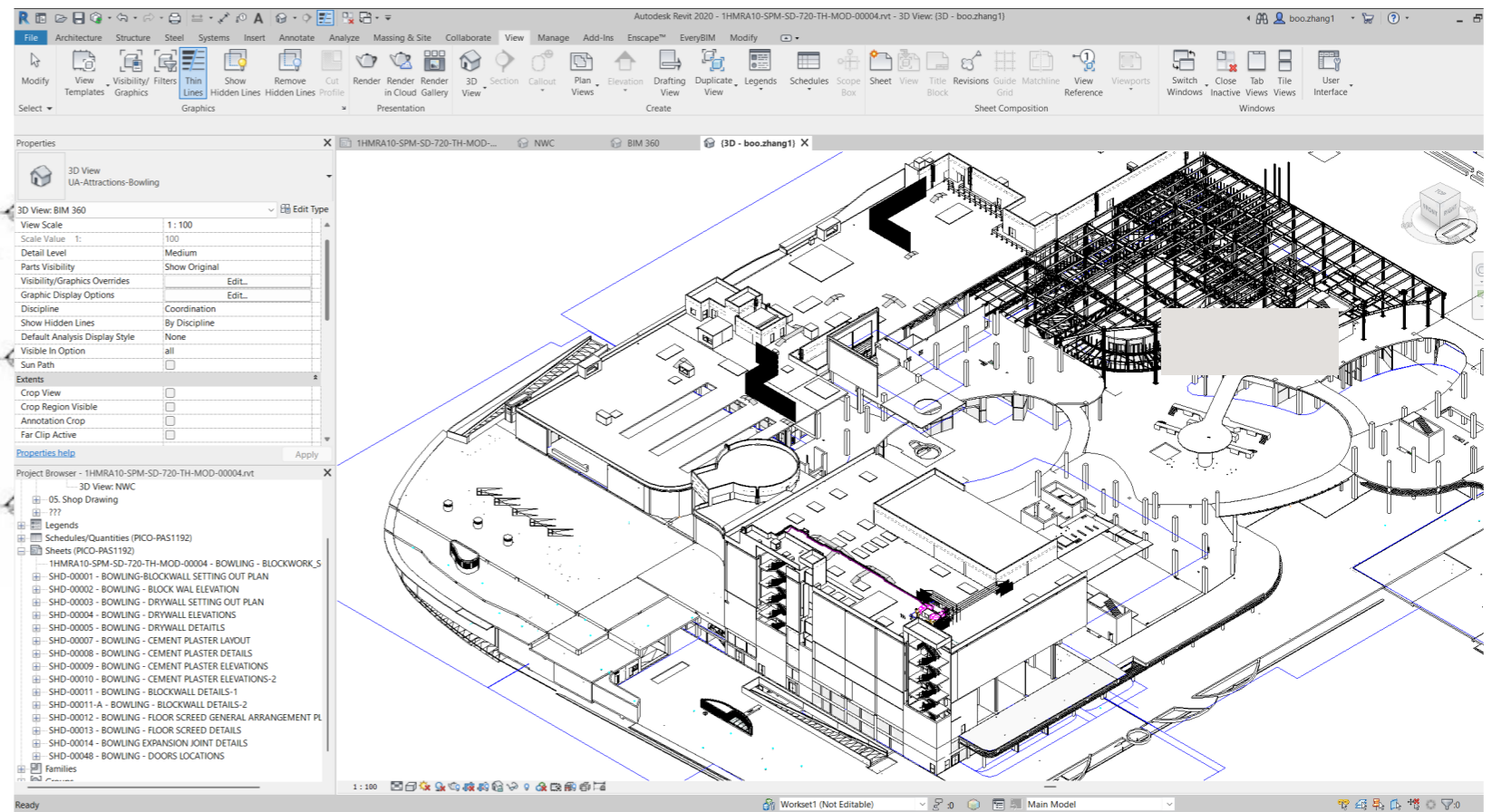
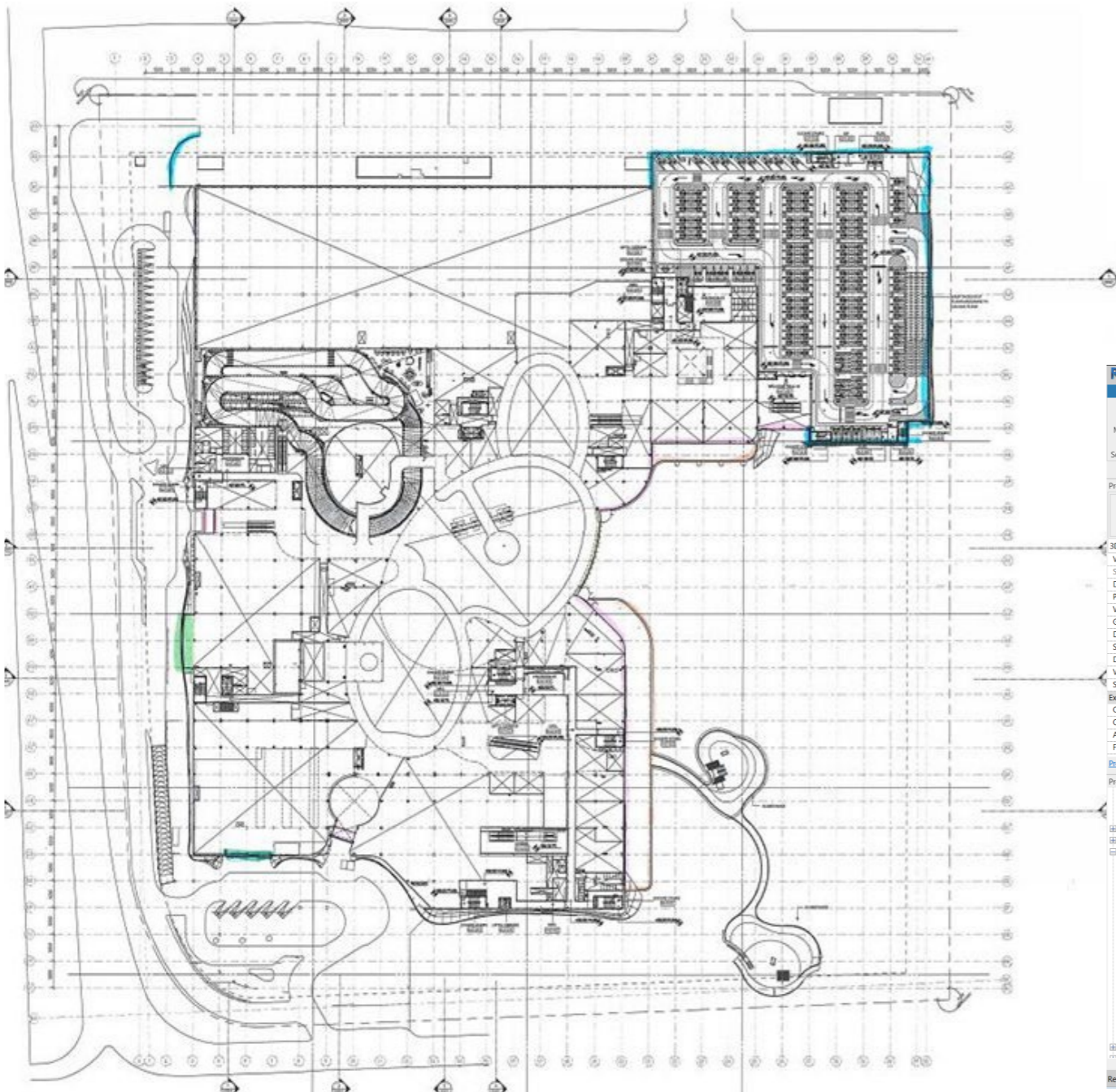
Each design package was fully developed in Revit, with all discipline models managed through Autodesk Construction Cloud as the common data environment.

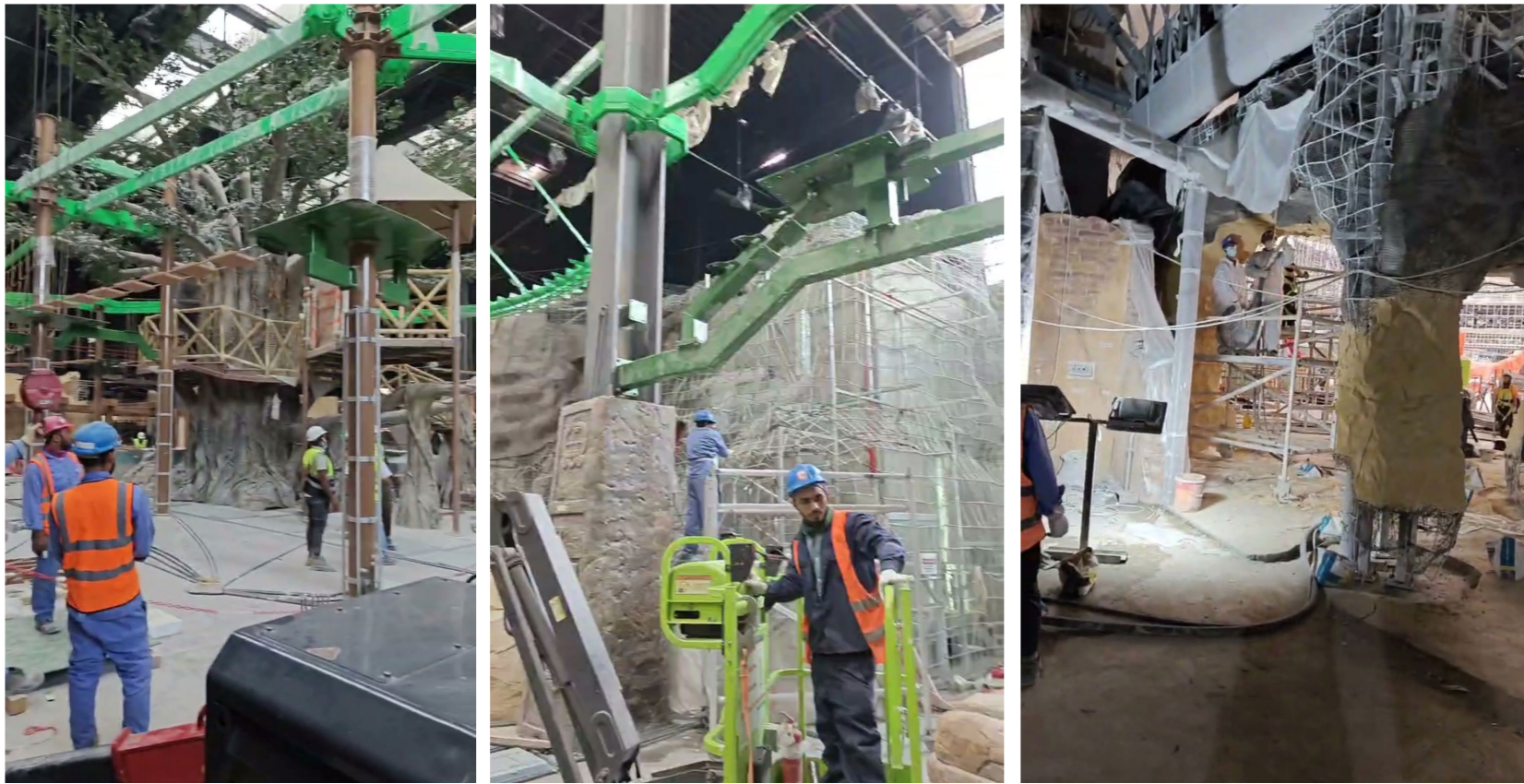
After each round of design development, the coordinated Revit models were exported and processed into Navisworks files for review by the main contractor and engineering team.

Drawing packages exported from the model were submitted through Aconex for formal version control, document tracking, and approval workflow.

During the coordination process, technical issues were raised through RFIs, allowing the main contractor to provide clarification and enabling the design team to revise, update, and resubmit the drawings accordingly.

## Aconex Construction Management by Oracle





## Site Resolution

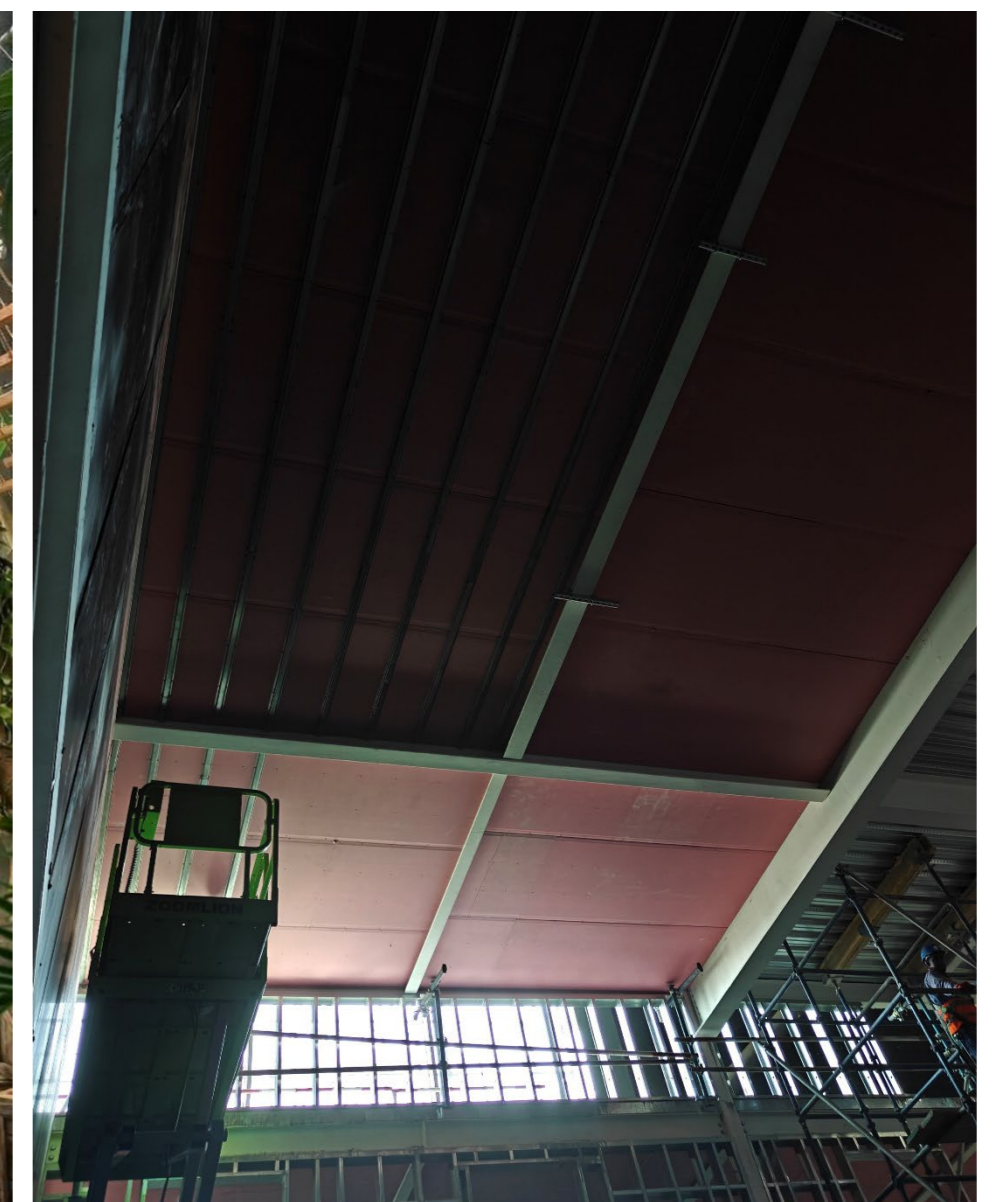
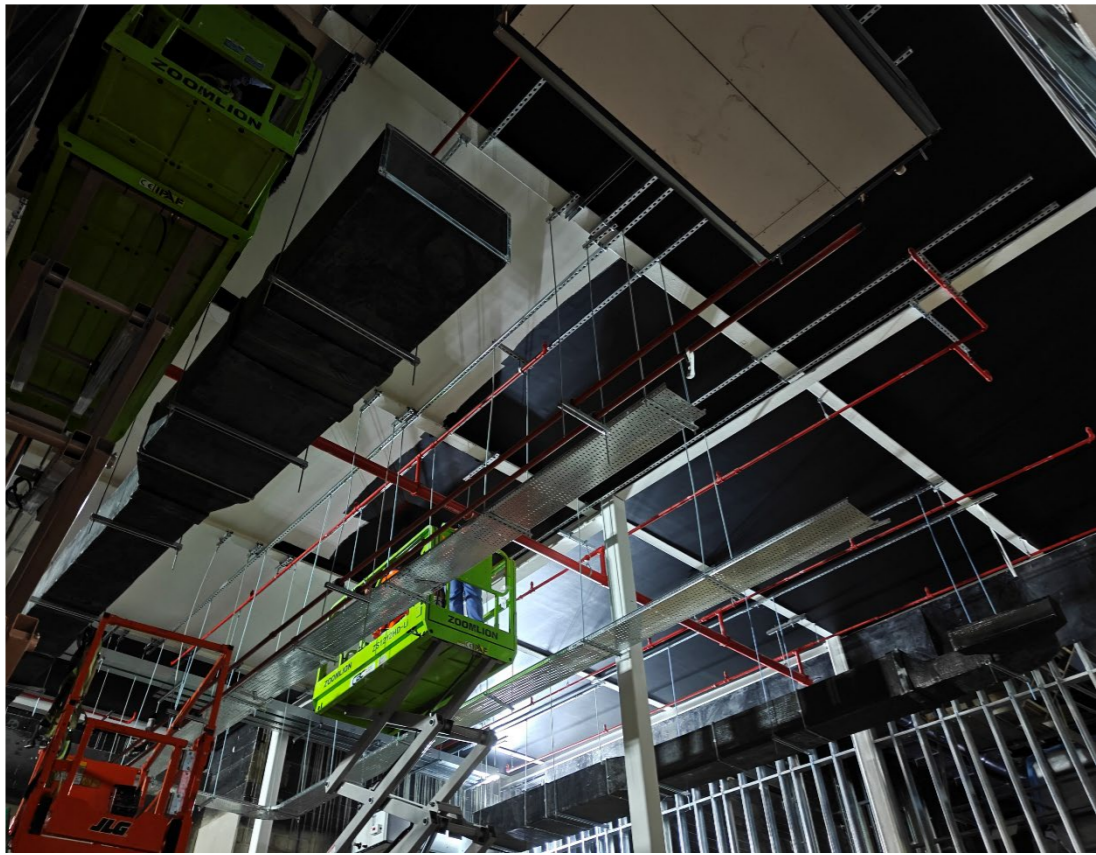
On-site work required coordination of construction workers, subcontractor workfronts, and installation responsibilities to maintain efficient progress.

Approved drawings and design intent were explained directly to the workers, ensuring that key details, installation logic, and quality expectations were properly understood.

B0Q quotation, vendor coordination, procurement comparison, and cost control were also supported during the construction process.

Daily site coordination helped manage construction sequence, workmanship quality, schedule progress, and alignment between approved drawings and actual site execution.





# MEADOW HOUSE - LIMMERICK IRELAND

**Typology:** Residential

**Location:** Limerick, Ireland

**Year & Area:** 2017 – 2019 / 450 sqm

**Scope:** Architecture & Interior

**Status:** CD CA / Complete

**Role:** Project Designer

**Software:** Revit / Sketchup / AutoCAD / Lumion

# 09



# My Role

Meadow House is a 450 sqm single-family residence located in Limerick, Ireland.

I joined the team after the concept design phase and supported the project through design development, construction documentation, and completion.

As a Senior Architect, my role focused on translating the approved design concept into buildable architectural information, including façade details, SIP wall and roof coordination, material interfaces, and interior fit-out details.

I also supported the team with daylight analysis and helped evaluate how the house responded to the local climate and site conditions.

During my two-year involvement, I contributed to technical coordination, project delivery, and multimedia presentation materials, including an animation published on YouTube and ArchDaily.

**Project Video:** YouTube

[https://www.youtube.com/watch?v=k05\\_8Hjf2s8](https://www.youtube.com/watch?v=k05_8Hjf2s8)

**Project Page On Archdaily:**

<https://www.archdaily.com/925538/meadow-dance-john-curran-architects>



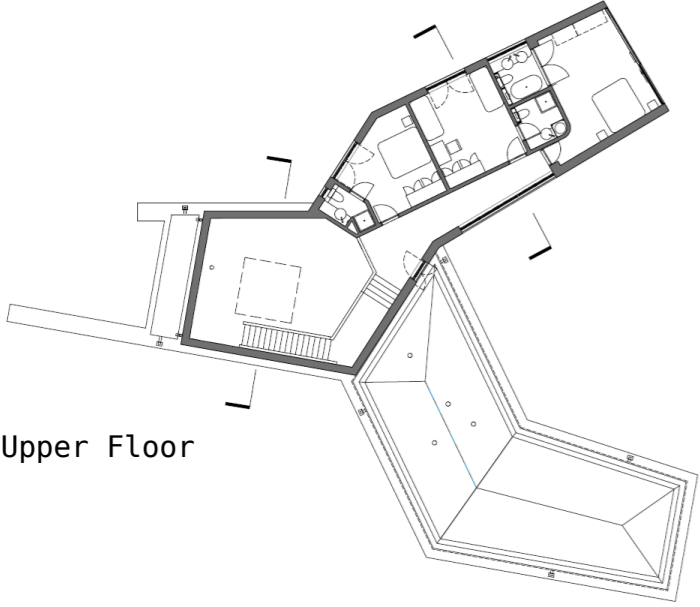
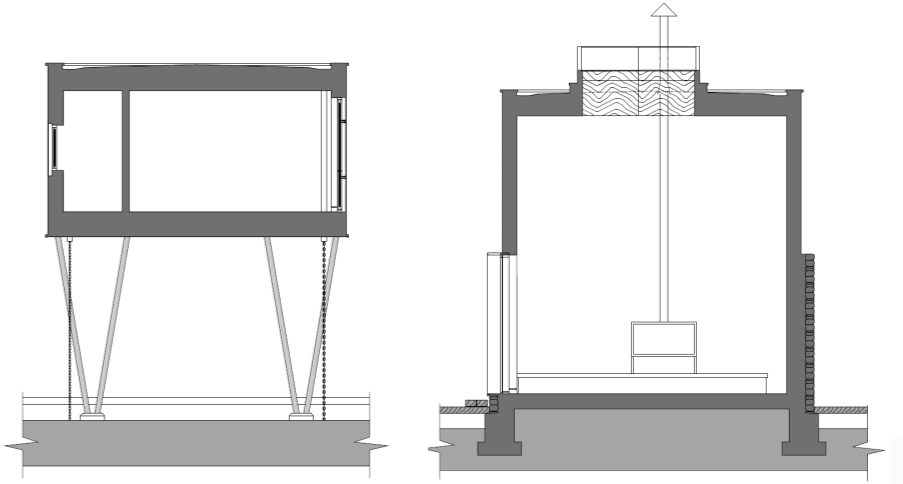
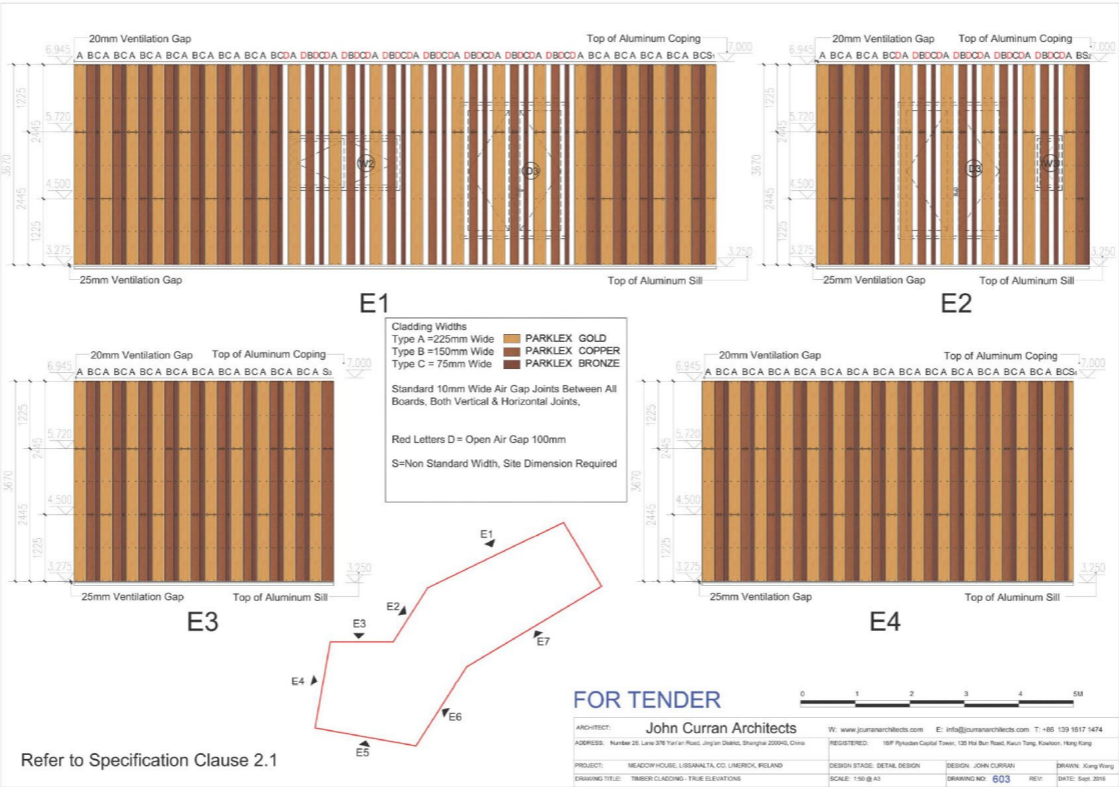
# Façade Cladding

The architectural concept and façade design were developed to reflect the regional character of the Irish countryside.

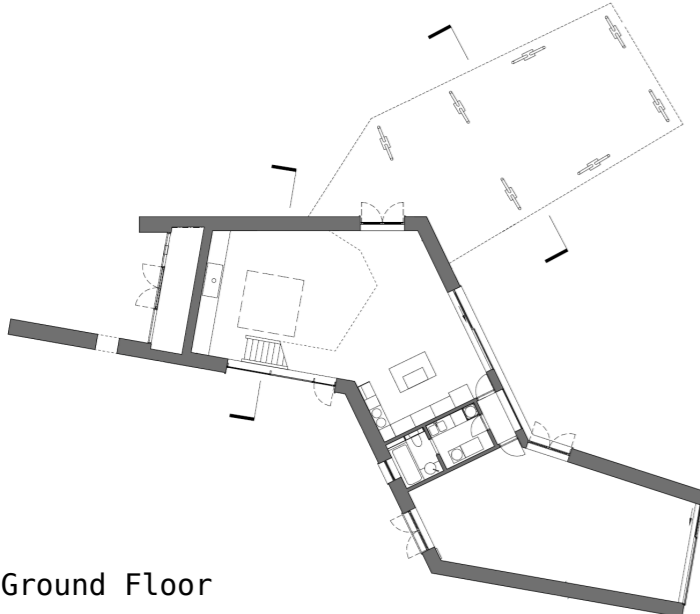
Two interwoven materials – stone at the ground level and Parklex timber cladding on the upper level – were selected to express both the local context and the client’s personal preference.

For the timber façade, we carefully studied the color variation, panel rhythm, and installation pattern to create a more refined and dynamic elevation.

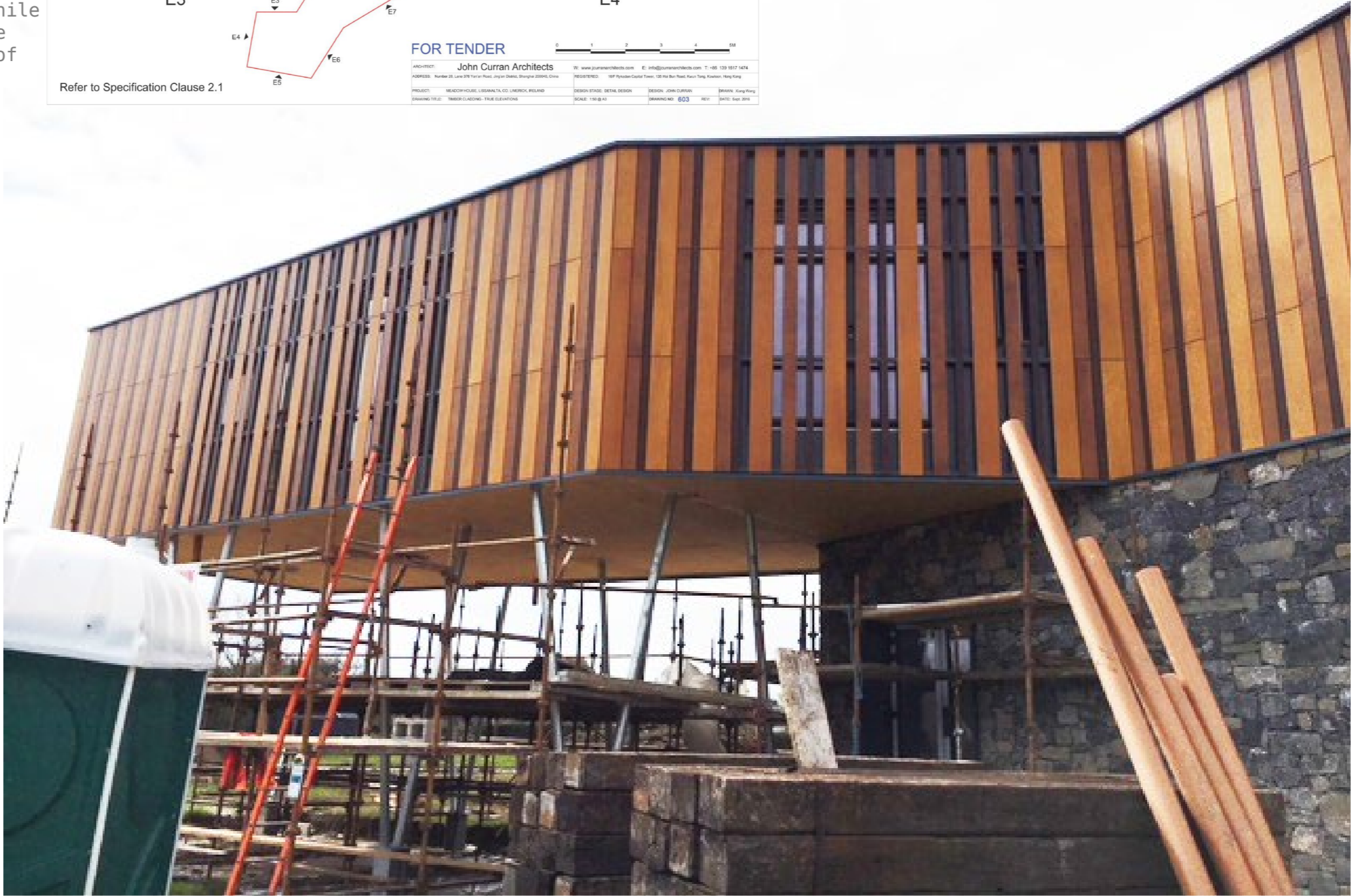
The stone base anchors the house to the site, while the lighter timber volume appears to float above the meadow, forming the core concept of “Dance of the Meadow.”



Upper Floor



Ground Floor





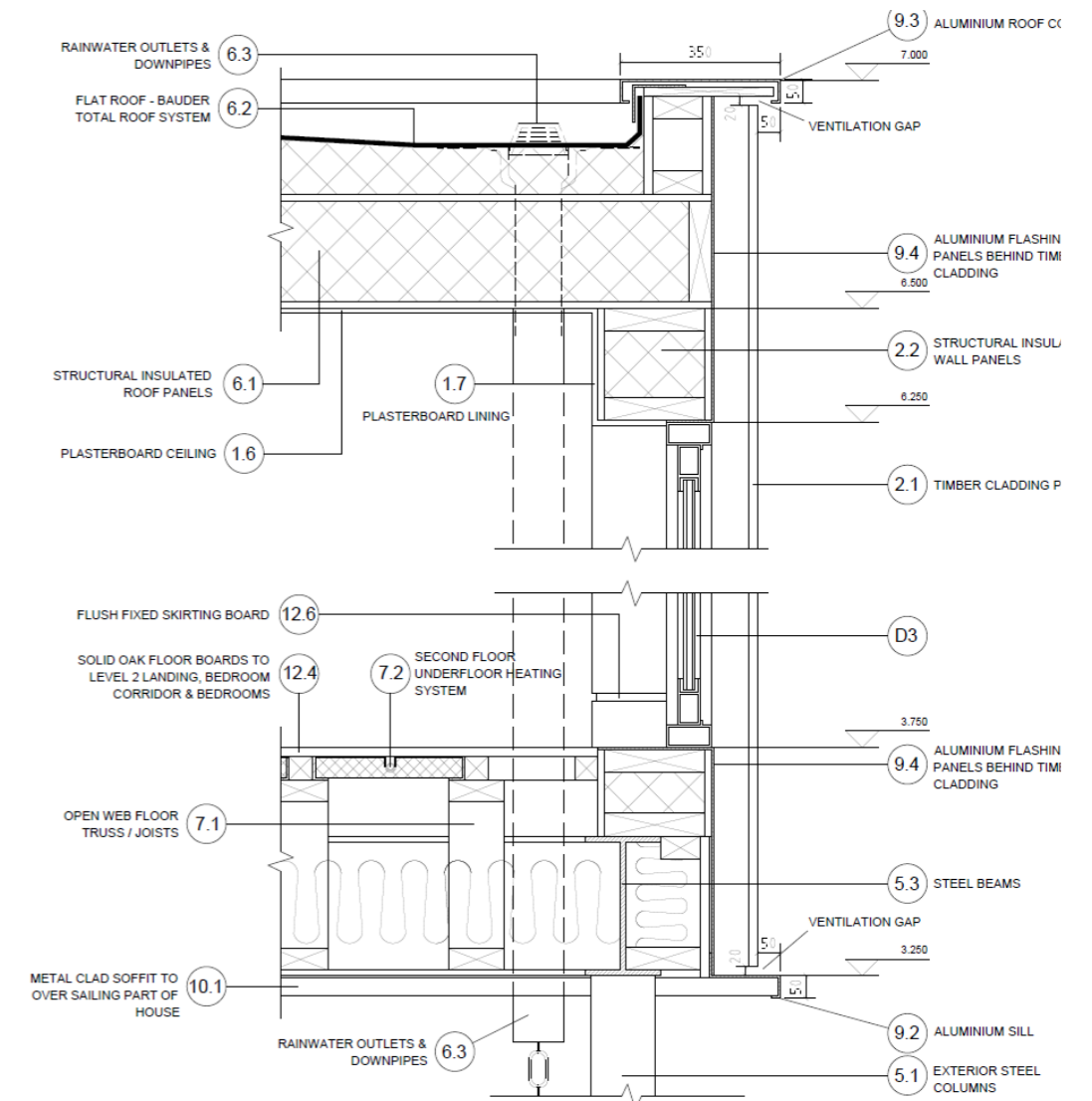
# SIP Wall & Roof System

To help the client move into their dream modern home as early as possible, we adopted a SIP wall and roof system for the main building envelope.

This prefabricated system significantly accelerated the construction process while providing excellent thermal insulation performance.

Based on the supplier's technical requirements, I developed detailed wall sections, roof build-ups, and key construction junctions.

I also coordinated design revisions according to the structural engineer's drawings and on-site construction feedback, ensuring that the system remained accurate, buildable, and aligned with the original design intent.



D3 DOUBLE DOORS - DETAILS AT HEAD + SILL

# Local Materials

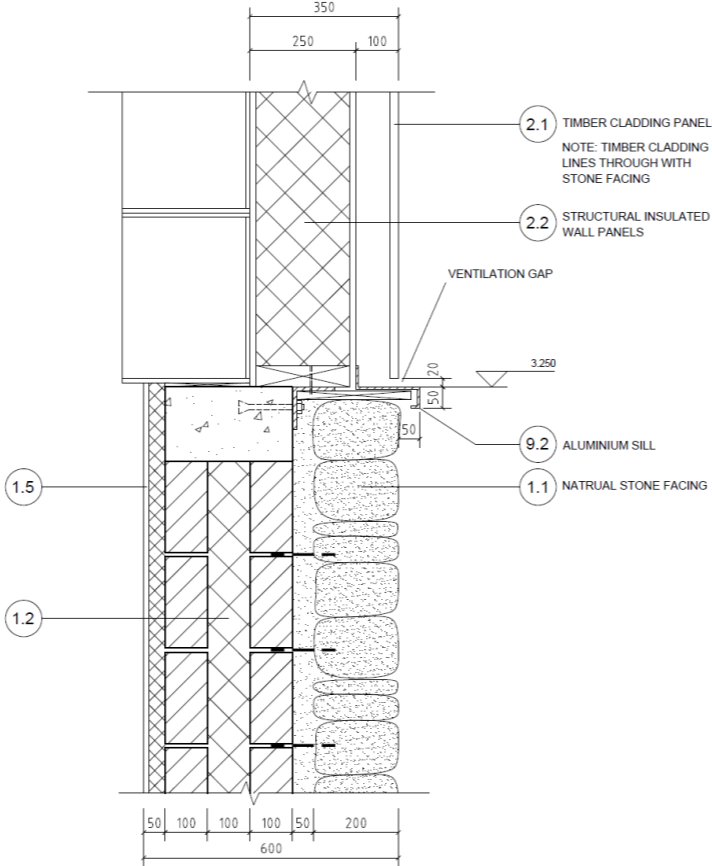
The material strategy of Meadow House was closely connected to the regional character of Ireland and the daily life of the client's family.

The outdoor timber deck was designed as a relaxed summer living space, where the family could gather, drink, barbecue, and enjoy the surrounding meadow.

The timber used for the deck was reclaimed from abandoned railway sleepers, giving the platform a strong sense of memory, texture, and reuse.

The stone used on the walls was sourced from a local quarry in Limerick, Ireland, with a distinctive color and texture that differs from stone commonly found in other parts of Europe.

Together, the reclaimed timber and local stone created a raw, grounded, and regionally specific material expression for the house.







# Energy & Ventilation

Ireland's cool and damp climate creates challenges such as condensation, moisture build-up, and potential mold risk inside residential buildings.

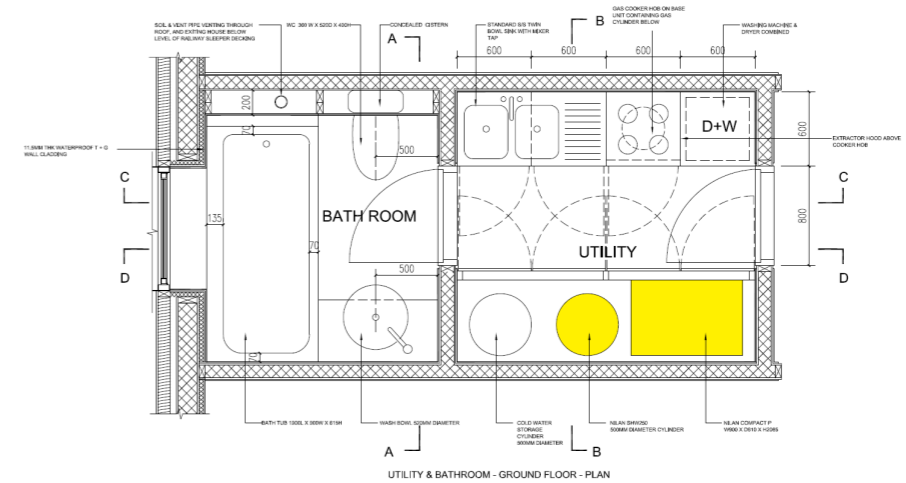
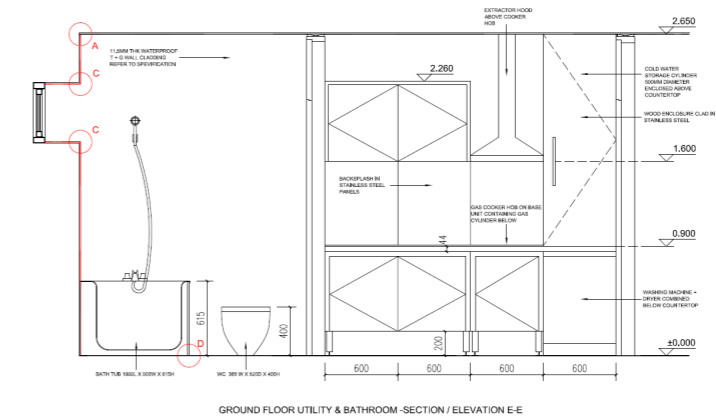
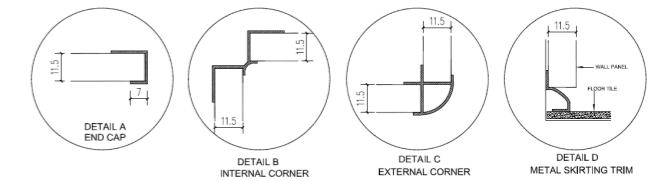
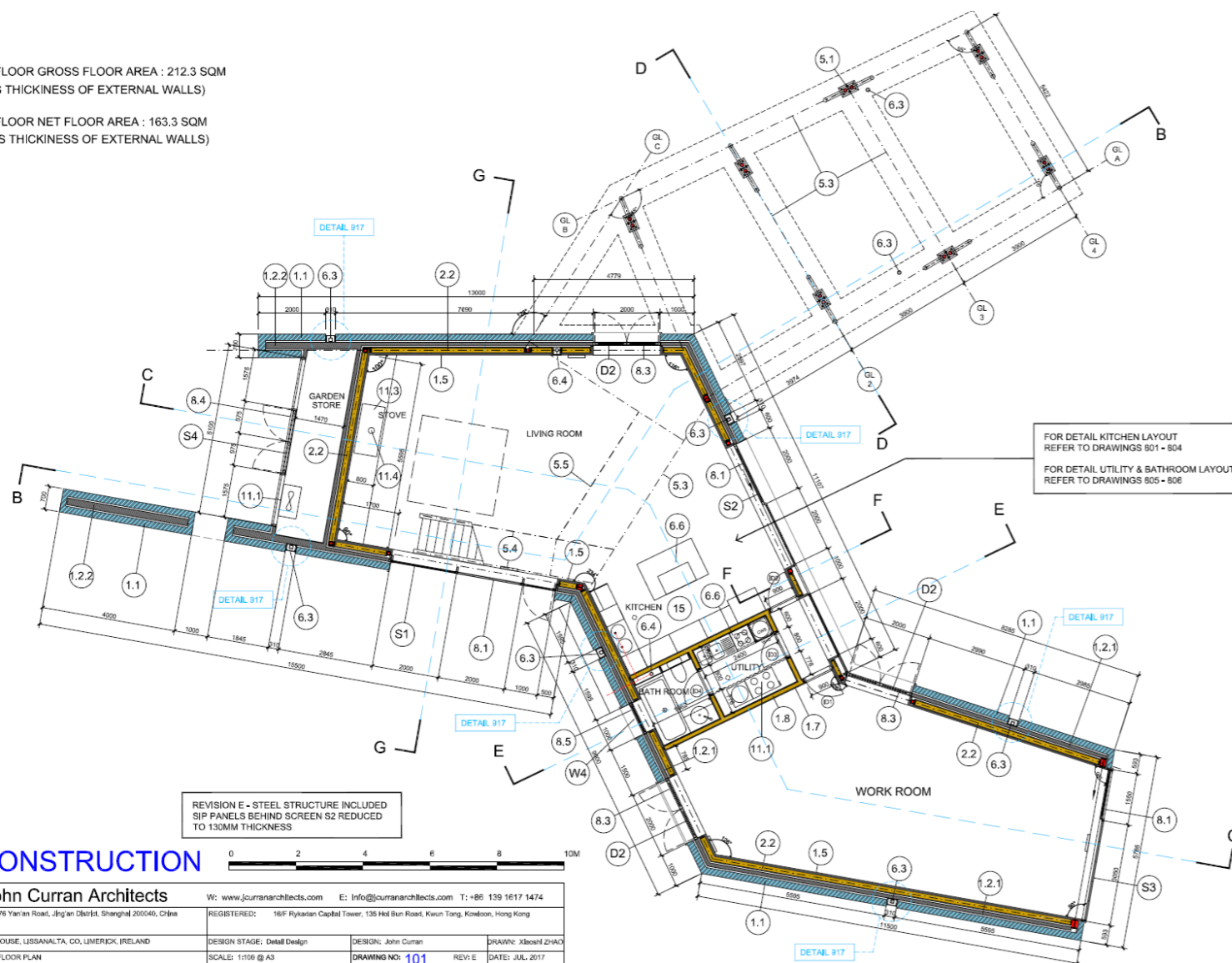
To improve indoor air quality and thermal comfort, Meadow House adopted a Nilan Compact P system, integrating MVHR (Mechanical Ventilation with Heat Recovery), heat pump, and domestic hot water production into one compact unit.

The system continuously extracts humid air from kitchens, bathrooms, and laundry areas, while recovering heat from the exhaust air to reduce energy loss.

Combined with the SIP envelope, high insulation, and airtight window-wall system, this strategy supports a low-energy residential approach with stable indoor comfort throughout the year.

GROUND FLOOR GROSS FLOOR AREA : 212.3 SQM  
(INCLUDES THICKNESS OF EXTERNAL WALLS)

GROUND FLOOR NET FLOOR AREA : 163.3 SQM  
(EXCLUDES THICKNESS OF EXTERNAL WALLS)



**FOR CONSTRUCTION**

ARCHITECT: <b>John Curran Architects</b>	W: <a href="http://www.jcurranarchitects.com">www.jcurranarchitects.com</a>	E: <a href="mailto:Info@jcurranarchitects.com">Info@jcurranarchitects.com</a>	T: +86 139 1617 1474
ADDRESS: Number 26, Lane 376 Yan'an Road, Jing'an District, Shanghai 200040, China	REGISTERED: 161F Ruyuan Capital Tower, 135 Hui Bin Road, Kowloon, Hong Kong	DESIGN: John Curran	DRAWN: Xiaohui Zhao
PROJECT: MEADOW HOUSE, LISBANNALTA, CO. LIMERICK, IRELAND	DESIGN STAGE: Detail Design	DATE: JUL 2017	
DRAWING TITLE: GROUND FLOOR PLAN	SCALE: 1:100 @ A3	DRAWING NO: <b>101</b>	REVISION: REV E

# SUSTAINABLE STUDIO 1 - UNIVERSAL SPACE

A Grasshopper-Based System for Large-Span Structural Generation

Prof. Peter Land

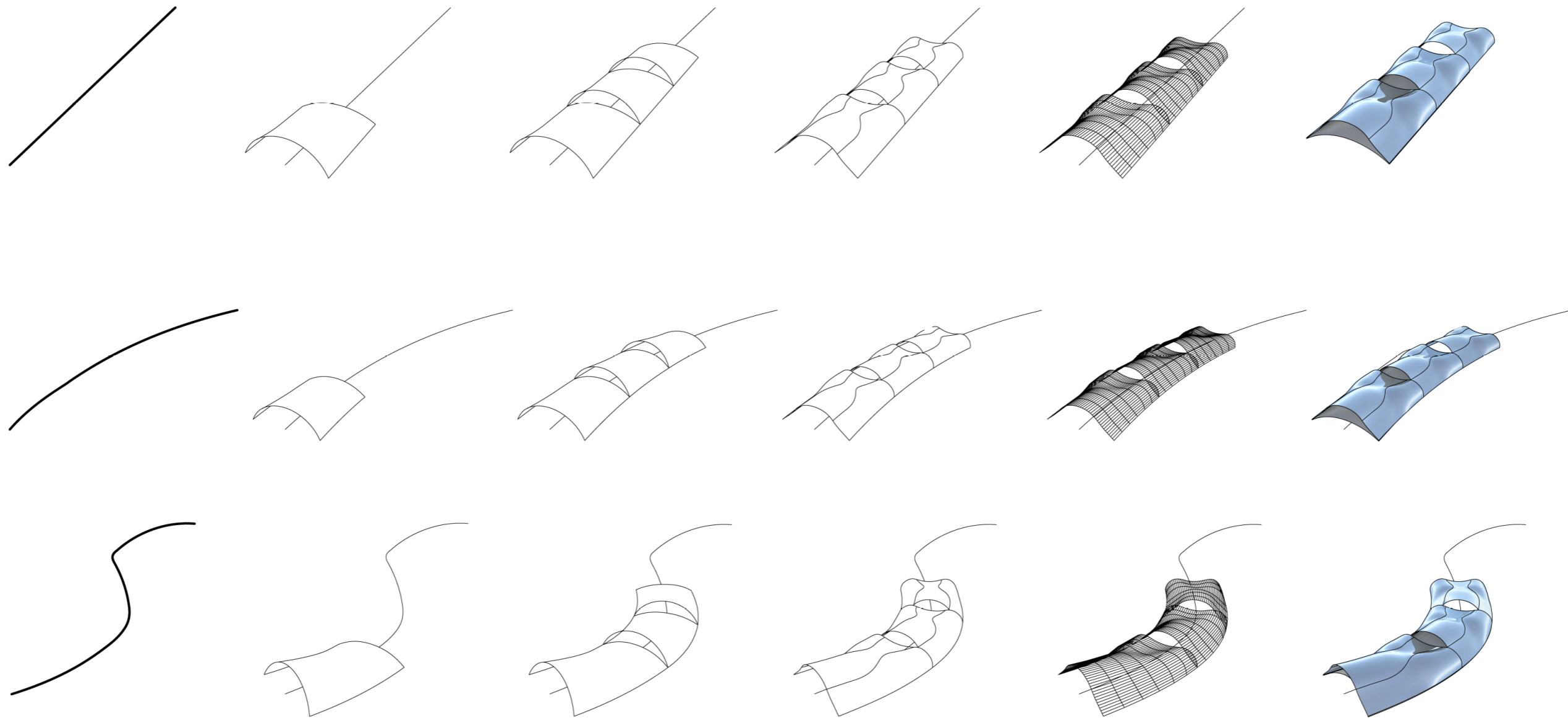
Horizontal Space - Spring of 2012

[Click for Video](#)

Using Grasshopper, I developed an adaptive structural module that can generate a large-span horizontal structure from any input planar curve.

The system is designed for flexible applications such as factories, railway stations, exhibition halls, and other public buildings requiring open-span space.

BIPV panels and wind turbines were integrated into the roof system, allowing the structure to function as both an architectural enclosure and a renewable energy platform.

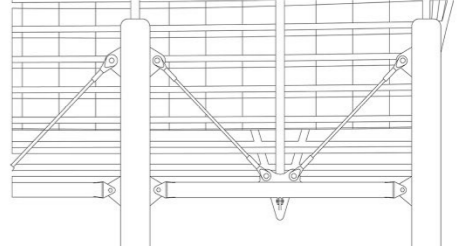
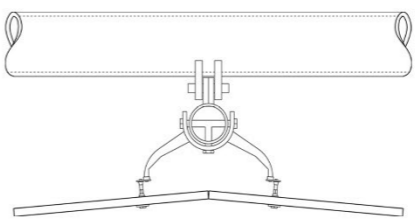
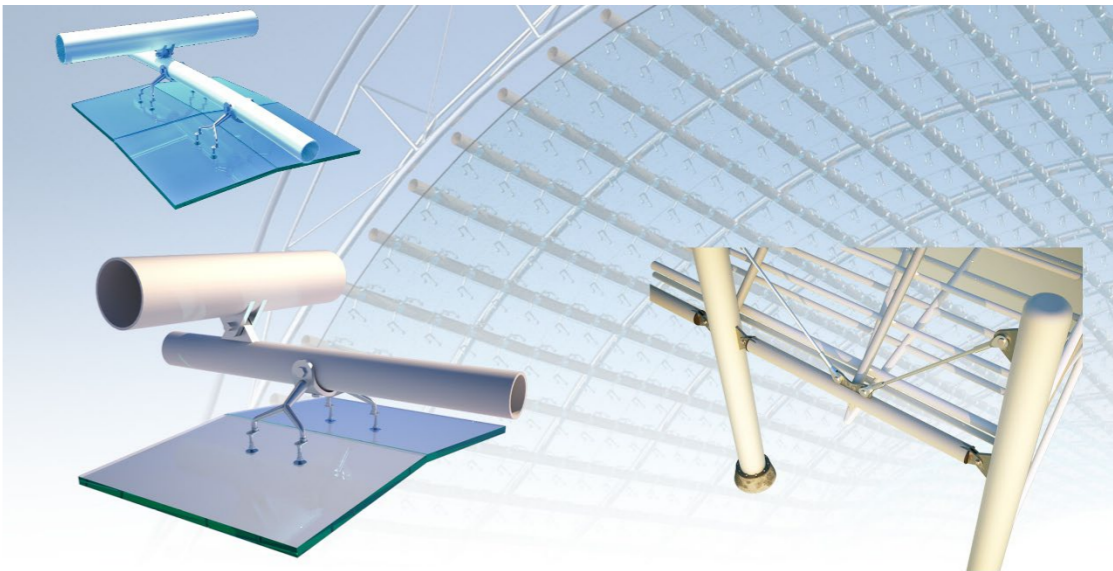
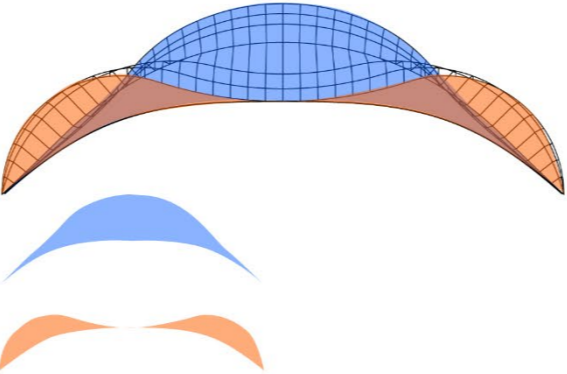
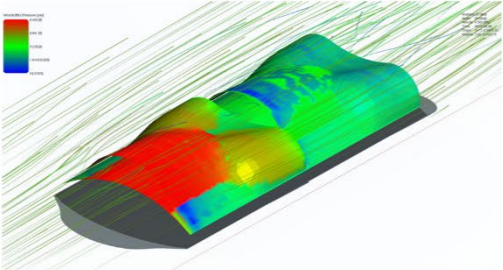
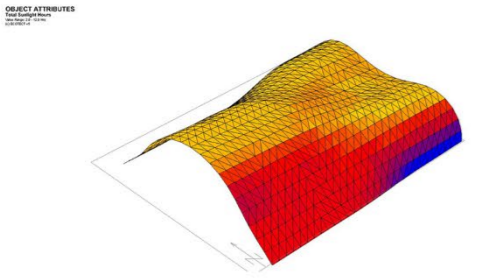
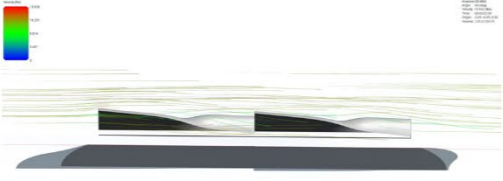
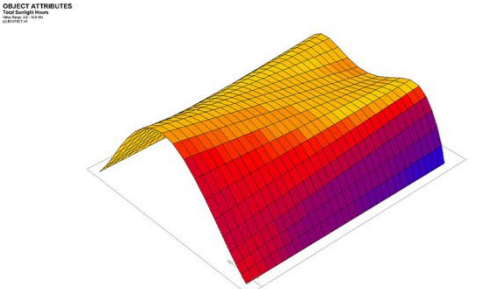
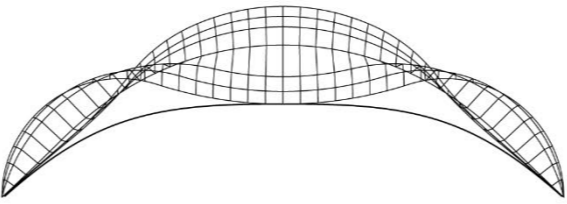
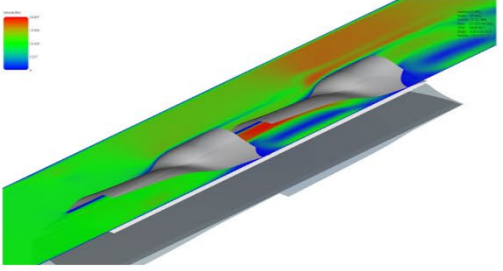
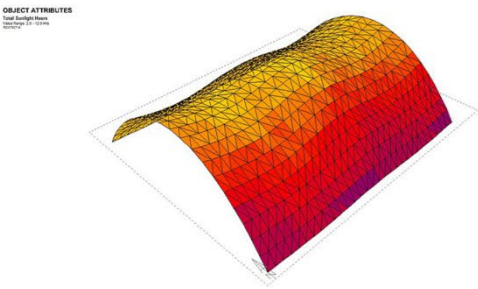
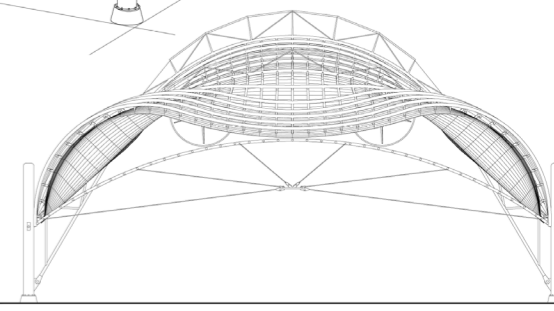
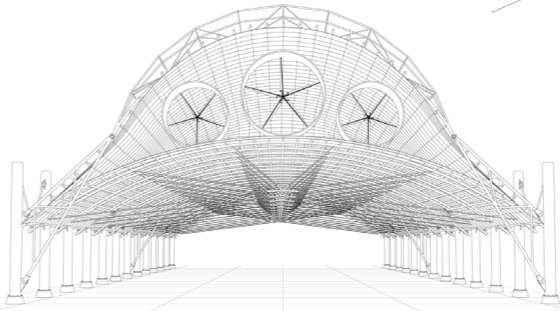
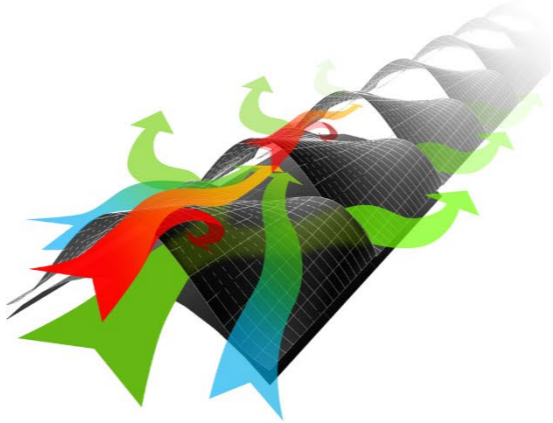
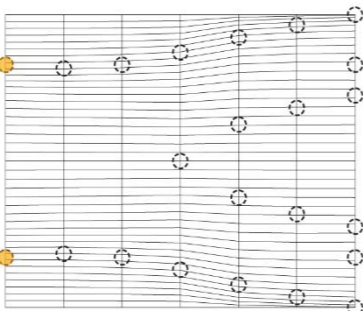
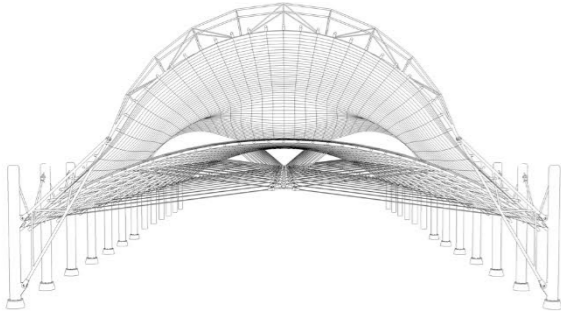
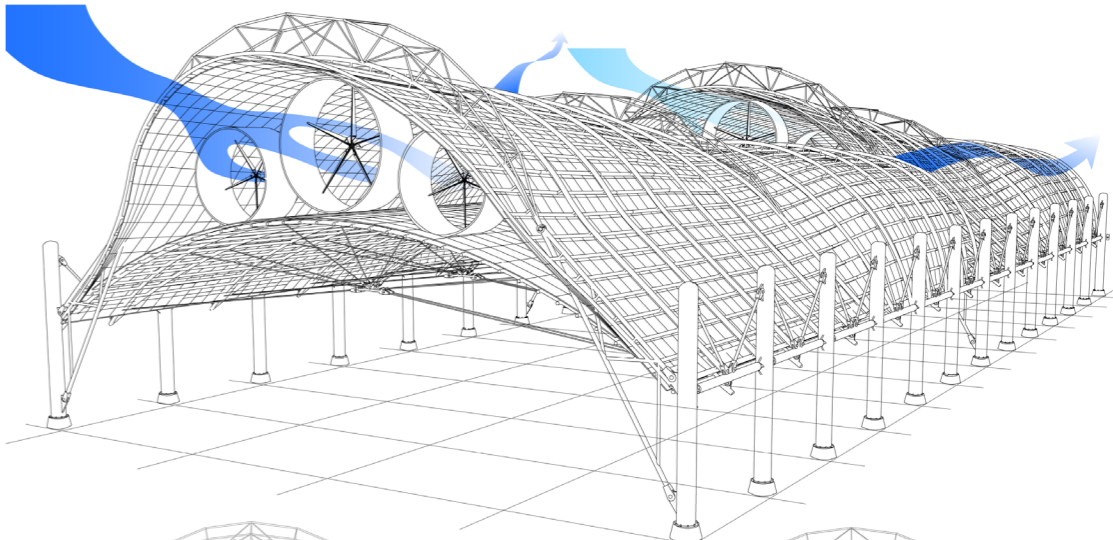
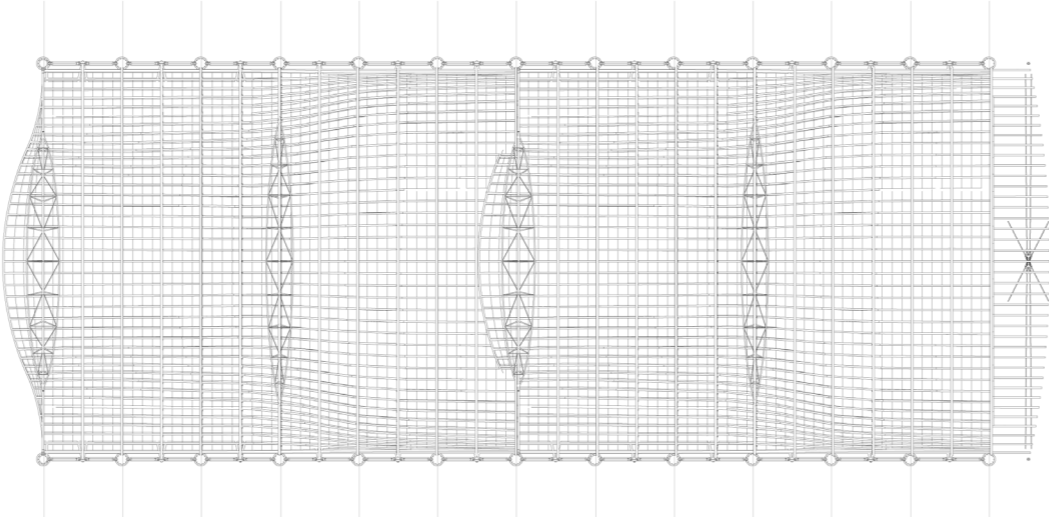


# Simulation

Ecotect, Vasari, and CFD simulations were used to test how different roof forms could improve solar exposure and accelerate wind flow across the structure.

Based on the simulation results, the system was further developed with adaptive connection details and structural nodes.

Using Grasshopper, each component could automatically adjust its angle, geometry, and connection type according to its position within the overall structural system.



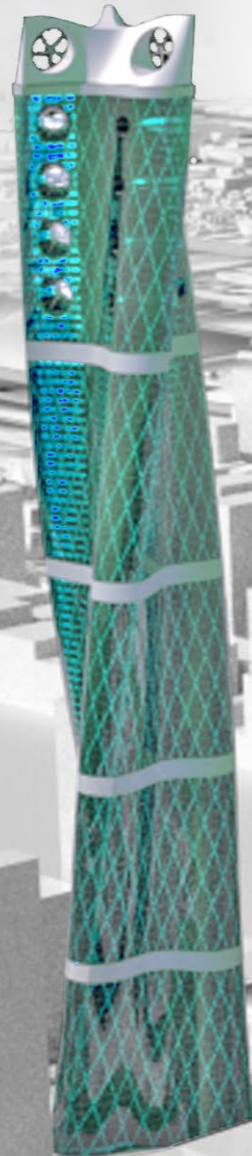
# SUSTAINABLE STUDIO 2 - UNIVERSAL SPACE

Prof. Peter Land

Vertical Space - Fall of 2011

This studio explored the urban morphology of high-rise development in downtown Chicago and selected a specific site for sustainable tall building research.

Using Grasshopper, I developed a parametric supertall tower with a spiral geometry that responds to the vertical condition of the city and the environmental forces around the site.

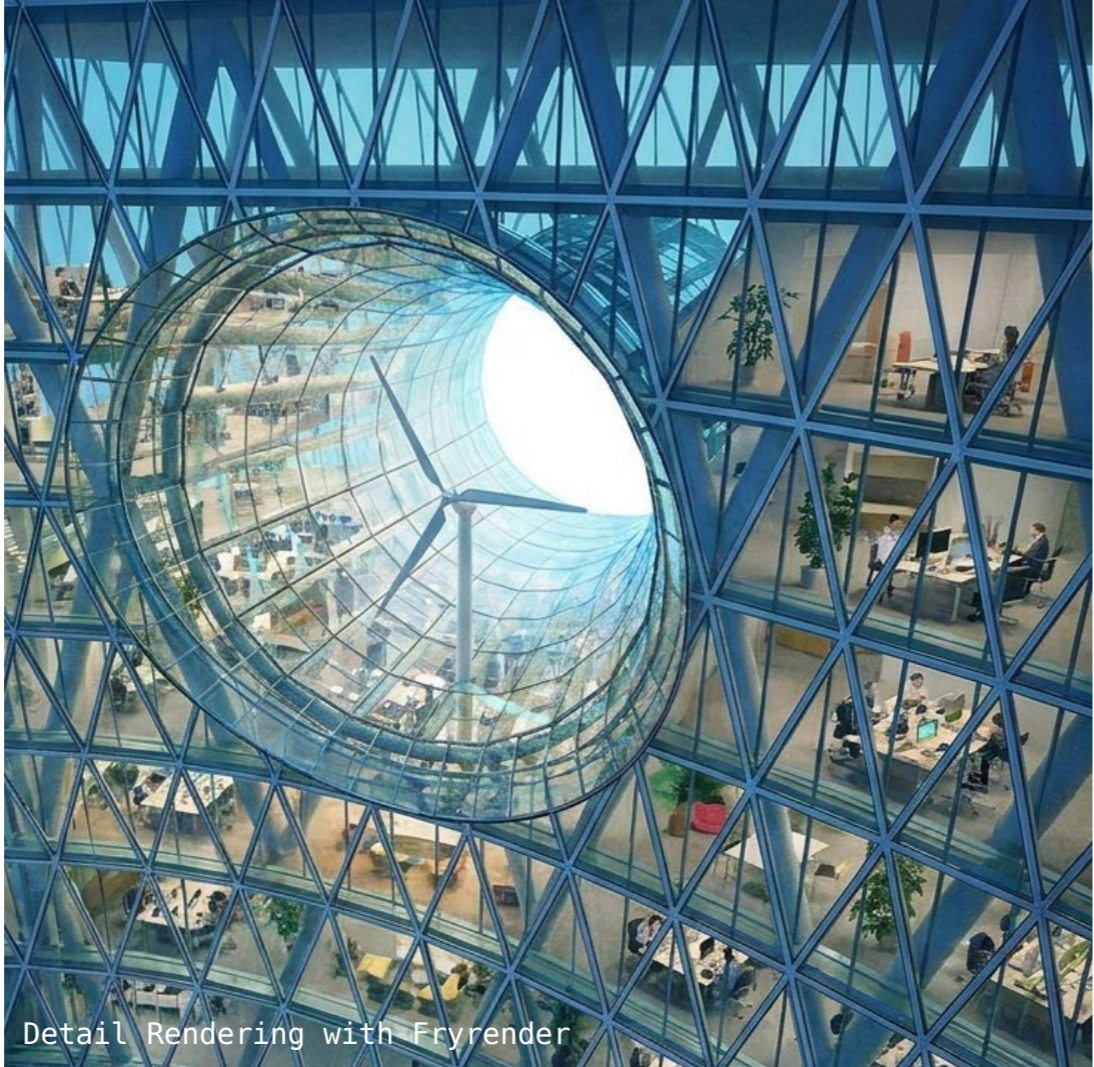
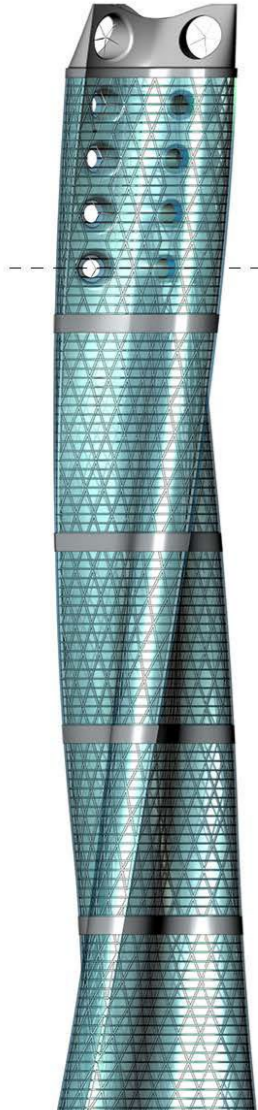
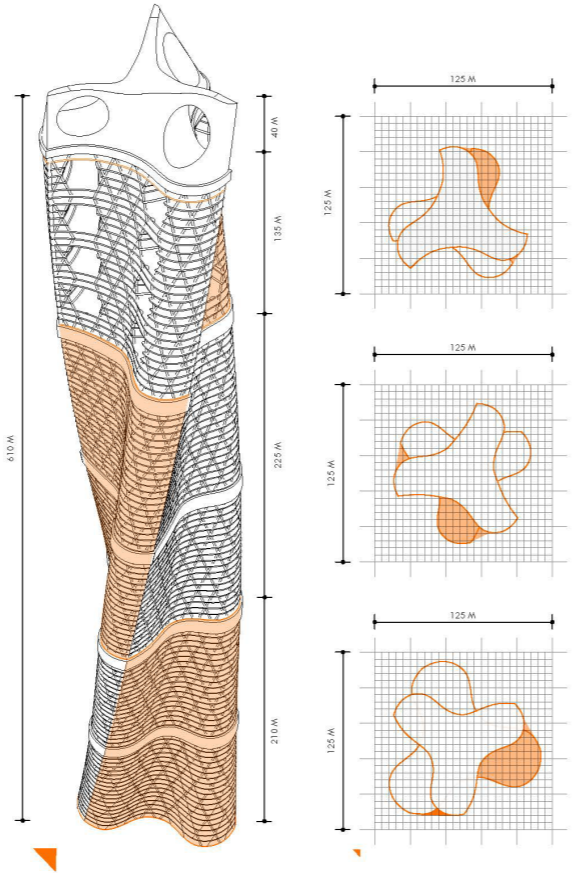


# Shaping

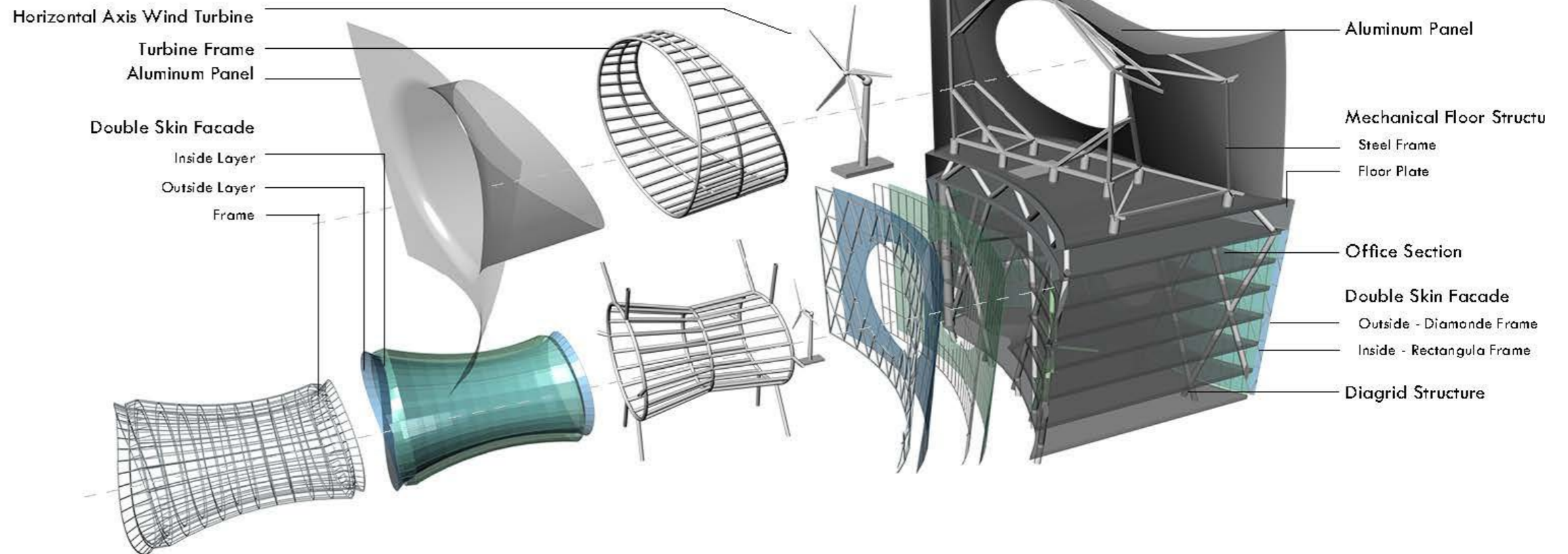
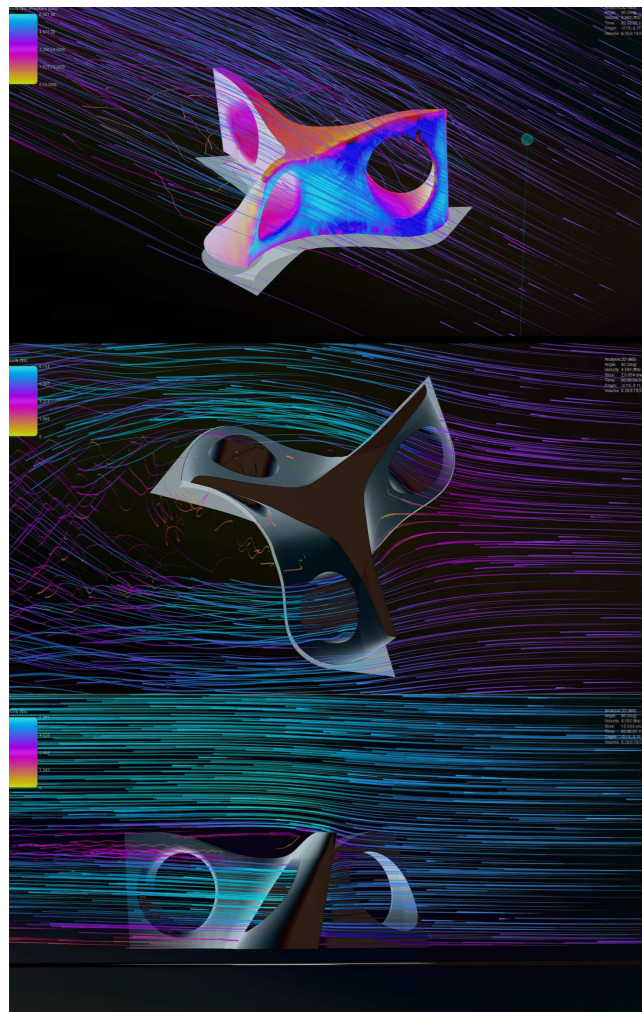
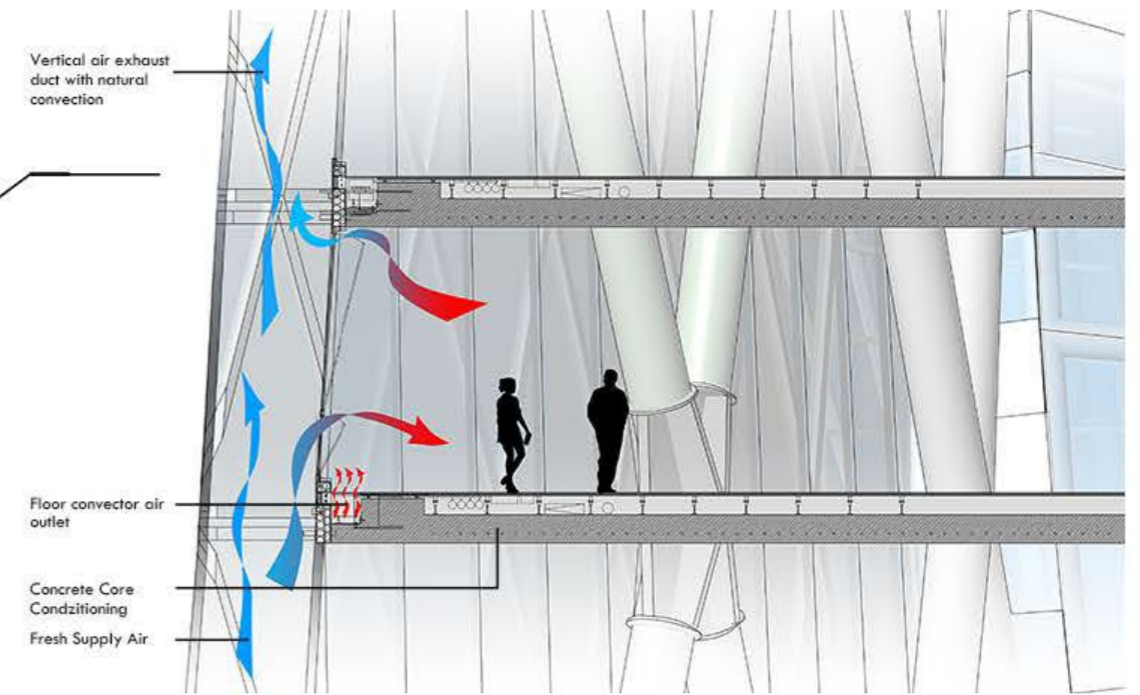
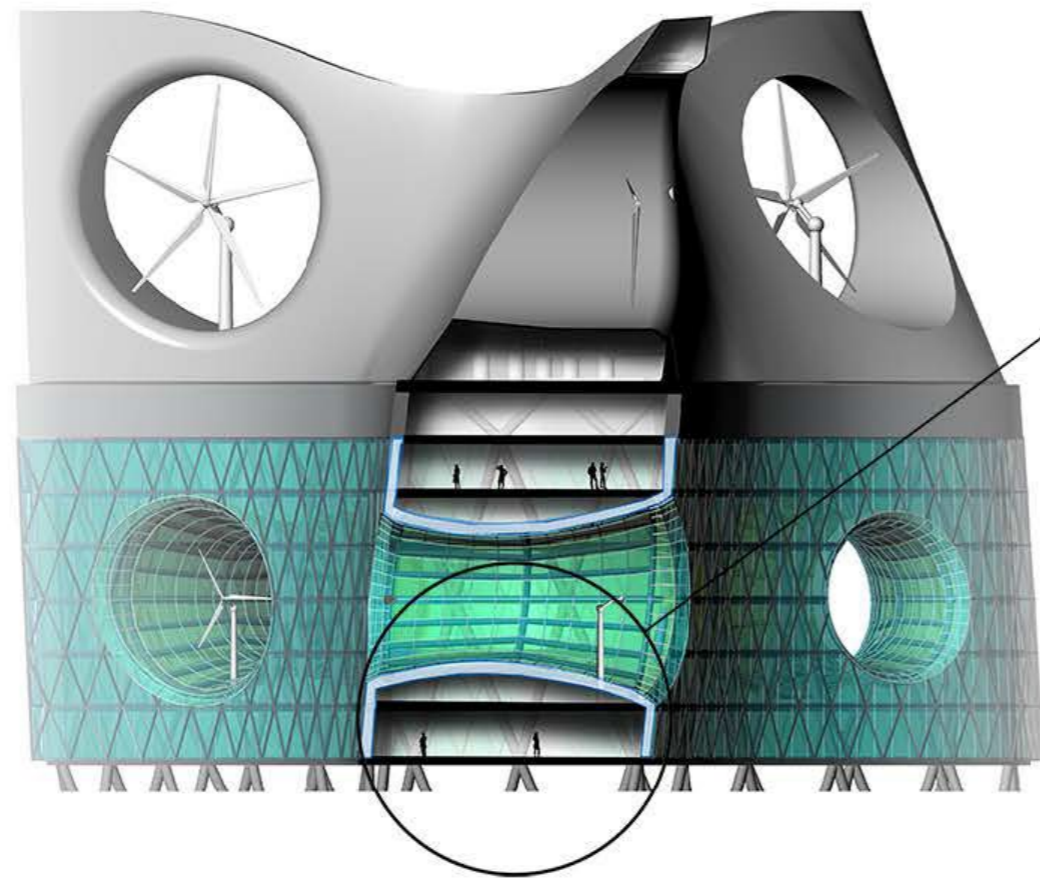
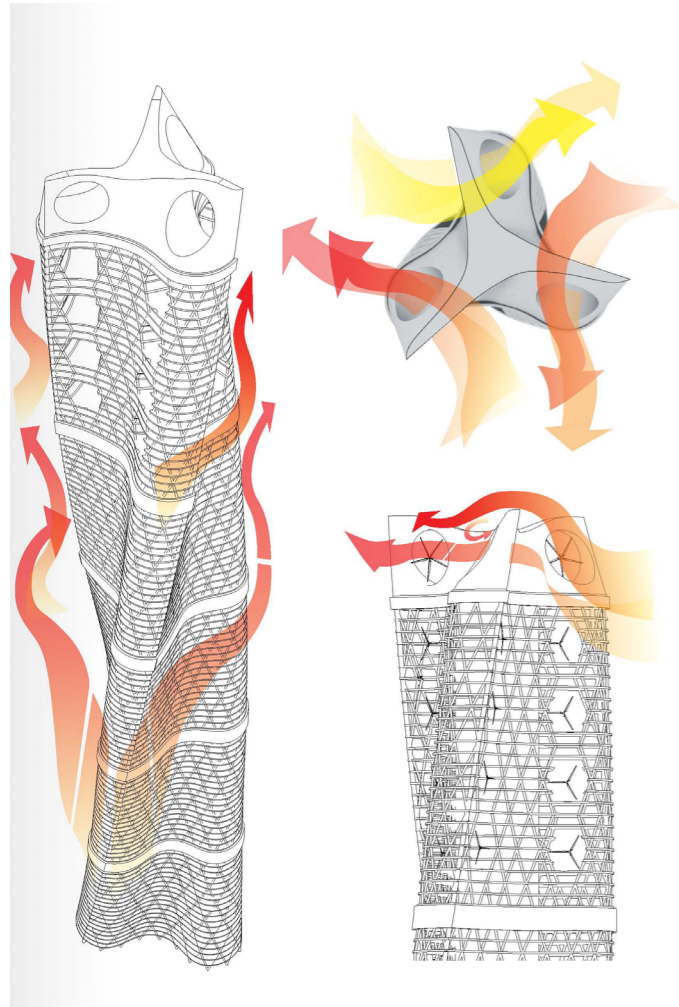
The tower form was designed to improve wind energy performance by guiding and accelerating airflow along the building surface, allowing the architecture to function as both an urban landmark and an environmental infrastructure.

Through parametric modeling, the project tested the relationship between tower massing, structural logic, façade variation, and renewable energy potential within a dense downtown context.

Tower Geometry Diagram



Detail Rendering with Fryrender



# Zhoushan Shengsi Islands Archipelago



2022 - The proposal was recognized with the AIA Shanghai Beijing Unbuilt Project Citation Award, highlighting its experimental approach to parametric tall building design and sustainable urban research.

# 亚洲学校建设大会

Asia School Construction Conference

北京站 12/10-12/11



BEED Asia 必达亚洲  
建设更好的学校



2024 - I was invited as a guest speaker and workshop leader at an international school construction conference, presenting our research and built-project experience in campus renovation, educational space design, and the future development of international school environments.

BEED Asia 必达亚洲  
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特别鸣谢：  
**NOVALIS**  
INNOVATIVE FLOORING  
采威利创意地板



2023 - Joined Asia School Expo as a workshop speaker in collaboration with a furniture brand, sharing integrated design strategies for campus architecture, landscape, and learning spaces.

**GONGMING LIU**

lgmtzz@gmail.com

[www.gongmingliu.com](http://www.gongmingliu.com)