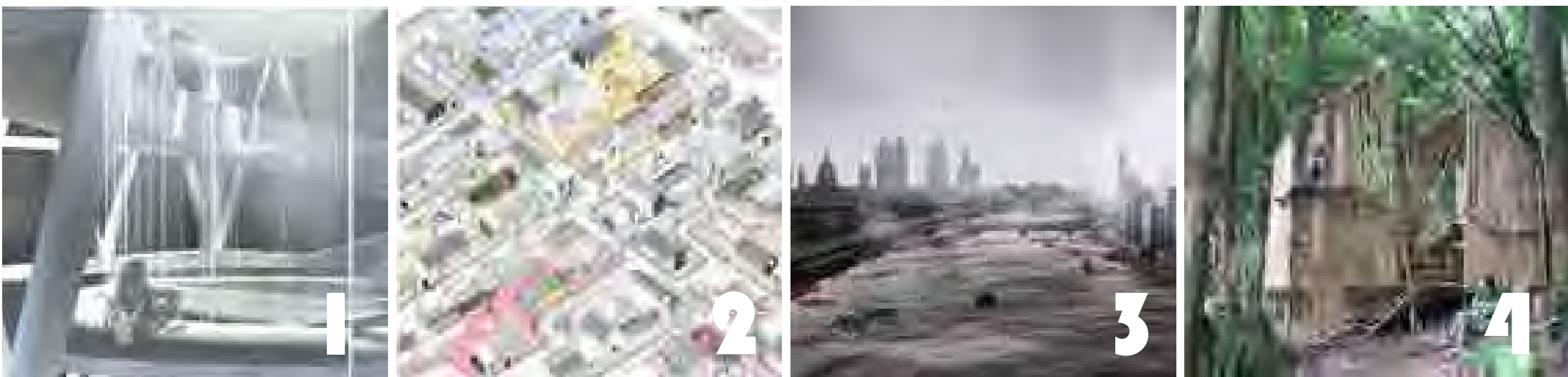
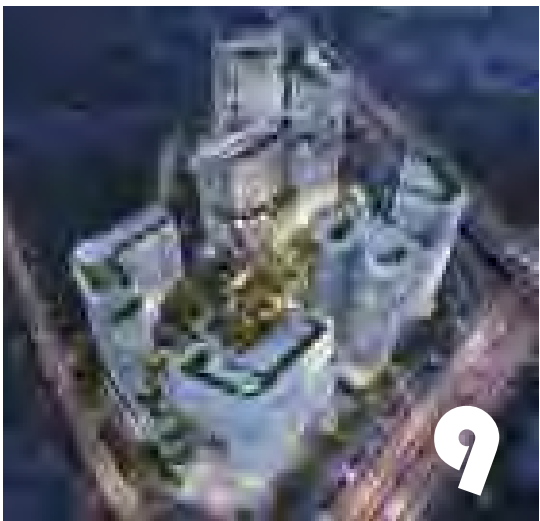




YANMING CHEN
PORTFOLIO



PROFESSIONAL PROJECTS

01. [RENOVATION OF SHANGHAI FIFTH HOSPITAL] - 01
- Lead designer and concept design
- Meeting with clients
02. [MATERNITY AND CHILDCARE HEALTH OF CHENGDU] - 03
- Lead designer and concept design
- Coordination with rendering company
03. [CANCER CENTER OF XI'AN HOSPITAL] - 05
- Designer in all phases
- Concept design and plan design
- Construction documents
- Coordination with other consultants (rendering company, construction and MEP department)
- Project management
04. [CANCER CENTER OF HEYOU HOSPITAL] - 08
- Lead designer in all phases
- Concept design and 3d design
- Elevation control, elevation and wall section drawings
- Coordination with other consultants (rendering company, cladding consultants, construction and MEP department)
05. [TEMPORARY CORONA - 19 HOSPITAL
CONVENTED FROM SNIEC CENTER] - 13
- Design
- Site visit
06. [LAB AND OFFICE BUILDING OF HIGH REPETITION
RATE X-RAY FEL AND EXTREME LIGHT FACILITY] - 15
- Concept design of the lab & office building
- Design all design development documents
- Meeting with clients and scientists
- Cooperation with construction, MEP apartment and cladding consultant
07. [ROBOTIC SURGICAL TRAINING CENTER] - 18
- Providing code supervision
- Construction documents
- Cooperation with construction, MEP apartment and cladding consultant
- Construction administration
08. [HAINAN HOSPITAL] - 21
- Construction documents
09. [SHENZHEN SECOND HOSPITAL] - 24
- Plan design

ACADEMIC PROJECTS

01. [ALIVE] - 27
02. [HERITAGE] - 31
03. [EMPHIBISCO] - 35
- Research and design
- Physical models and circuit board coding
- Animation display
04. [THE TRANQUILITY] - 39
- Design and build

SECTION A

PROFESSIONAL PROJECTS

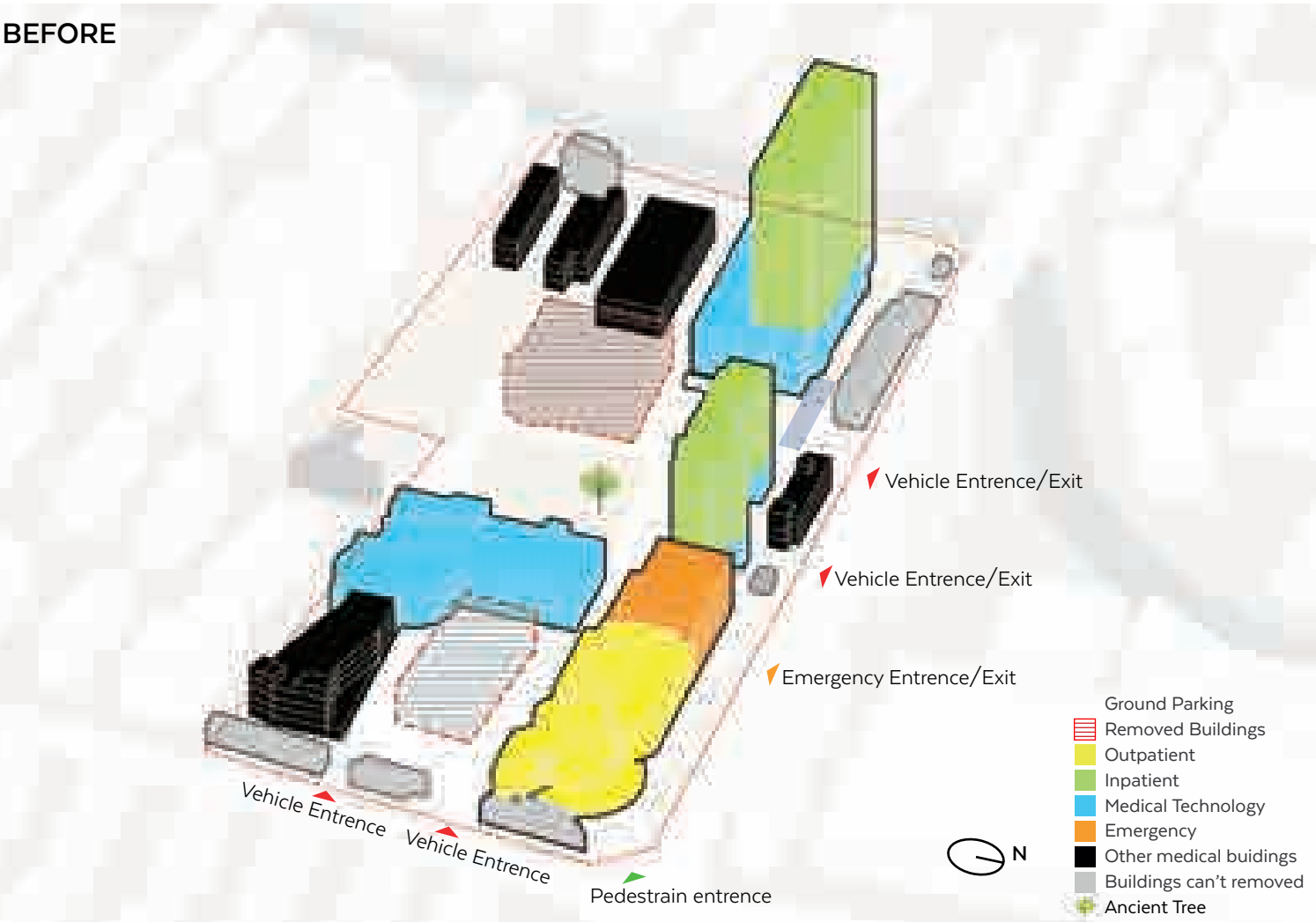
01. RENOVATION OF SHANGHAI HOSPITAL

FIFTH PEOPLE'S HOSPITAL OF SHANGHAI

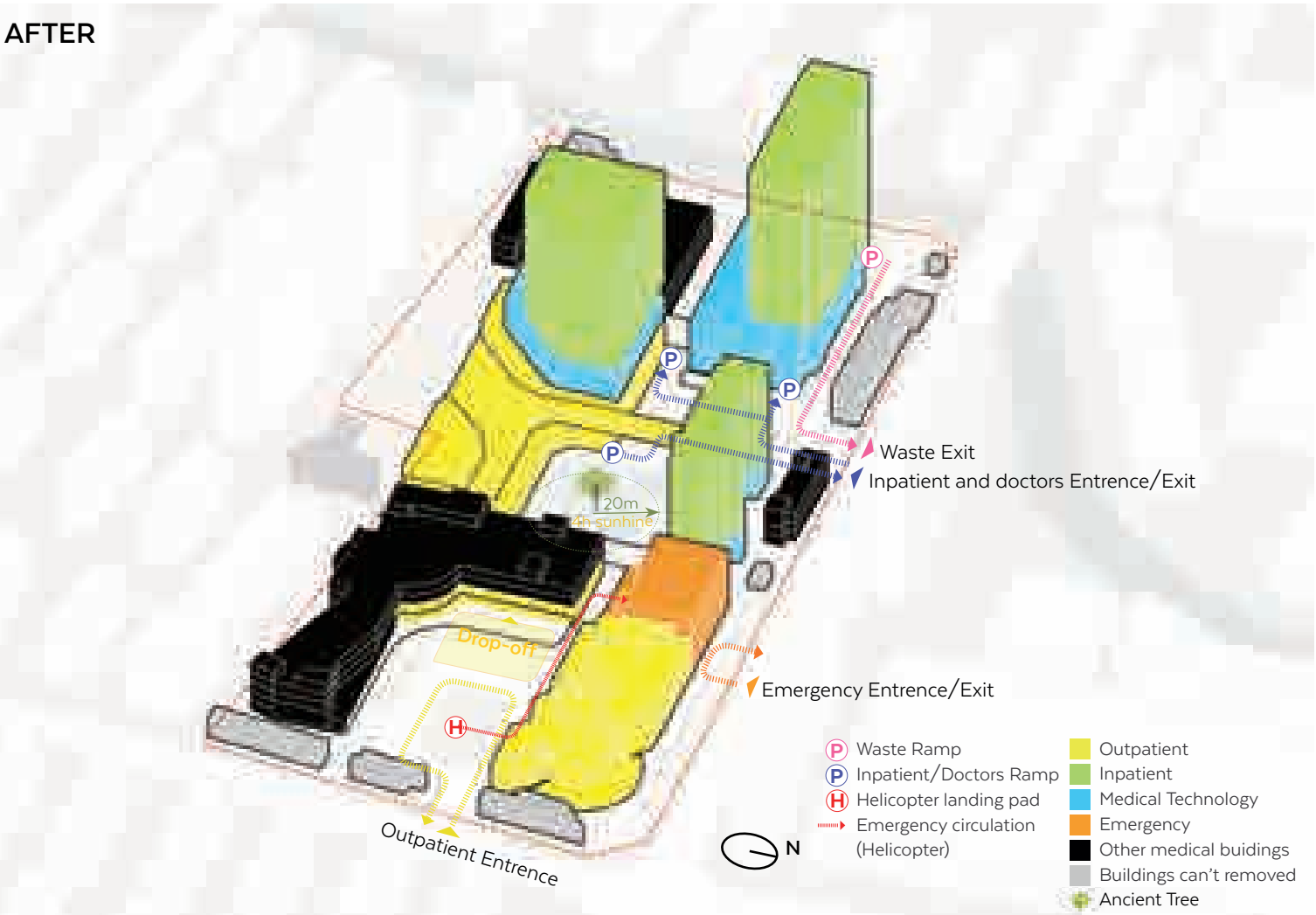
Type: Concept proposal
Location: Shanghai, China
Time: Oct. 2023
Construction Area: 168958 m²
New build construction Area: 60000 m²
Hospital beds number: 698
New hospital beds number: 302
Role: Lead designer and concept design
Meeting with clients



BEFORE



AFTER



BEFORE



AFTER

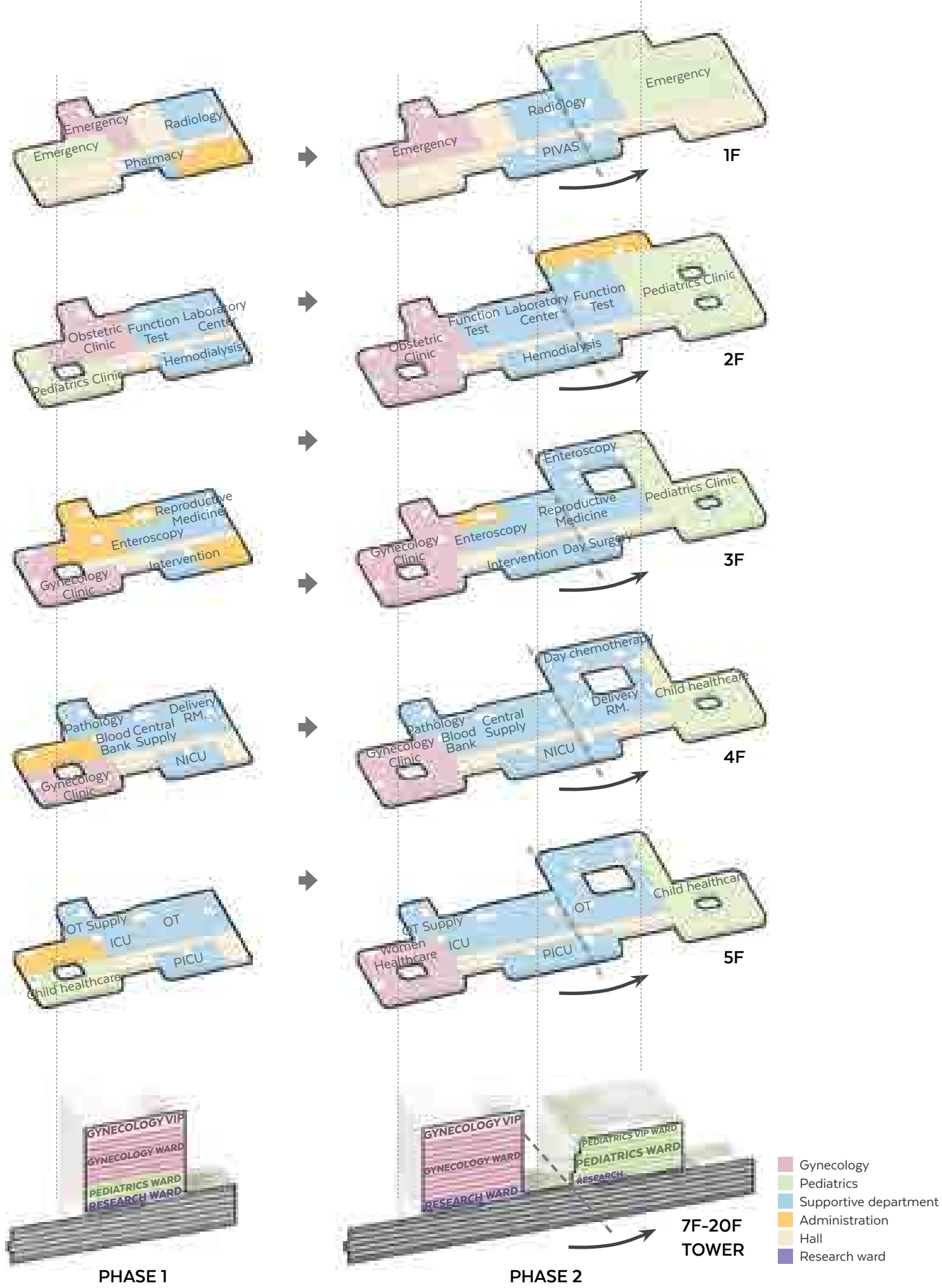


02. MATERNITY AND CHILDCARE HEALTH
OF CHENGDU

Location: Chengdu, China
Status: Competition, 1st place
Time: Aug. 2023
Site area: 78667 m²
Phase 1 construction area: 106594 m²
Total construction area: 259315 m²
Hospital beds number: 1200
Role: Lead designer and concept design
Coordination with rendering company



PHASING STRATEGY



PHASE 1



PHASE 2

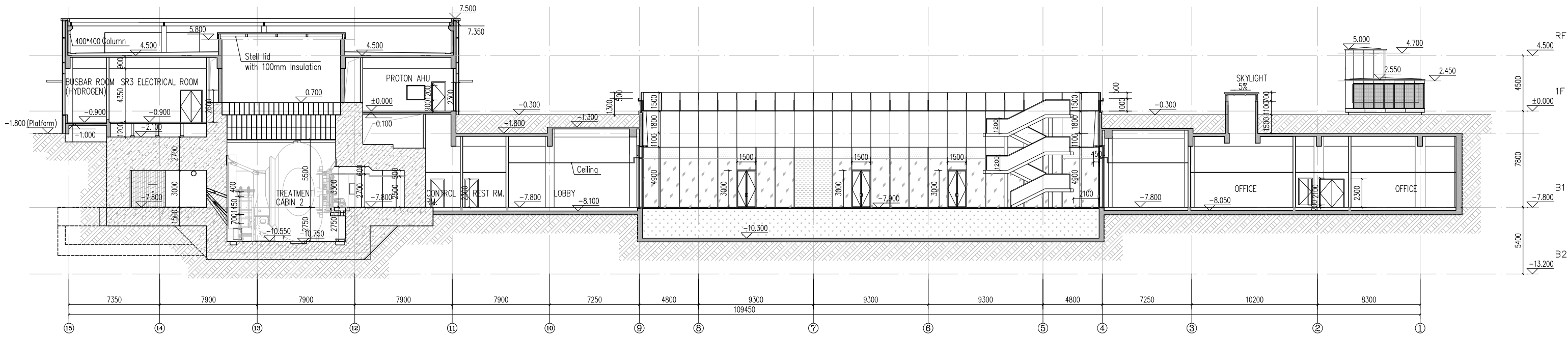


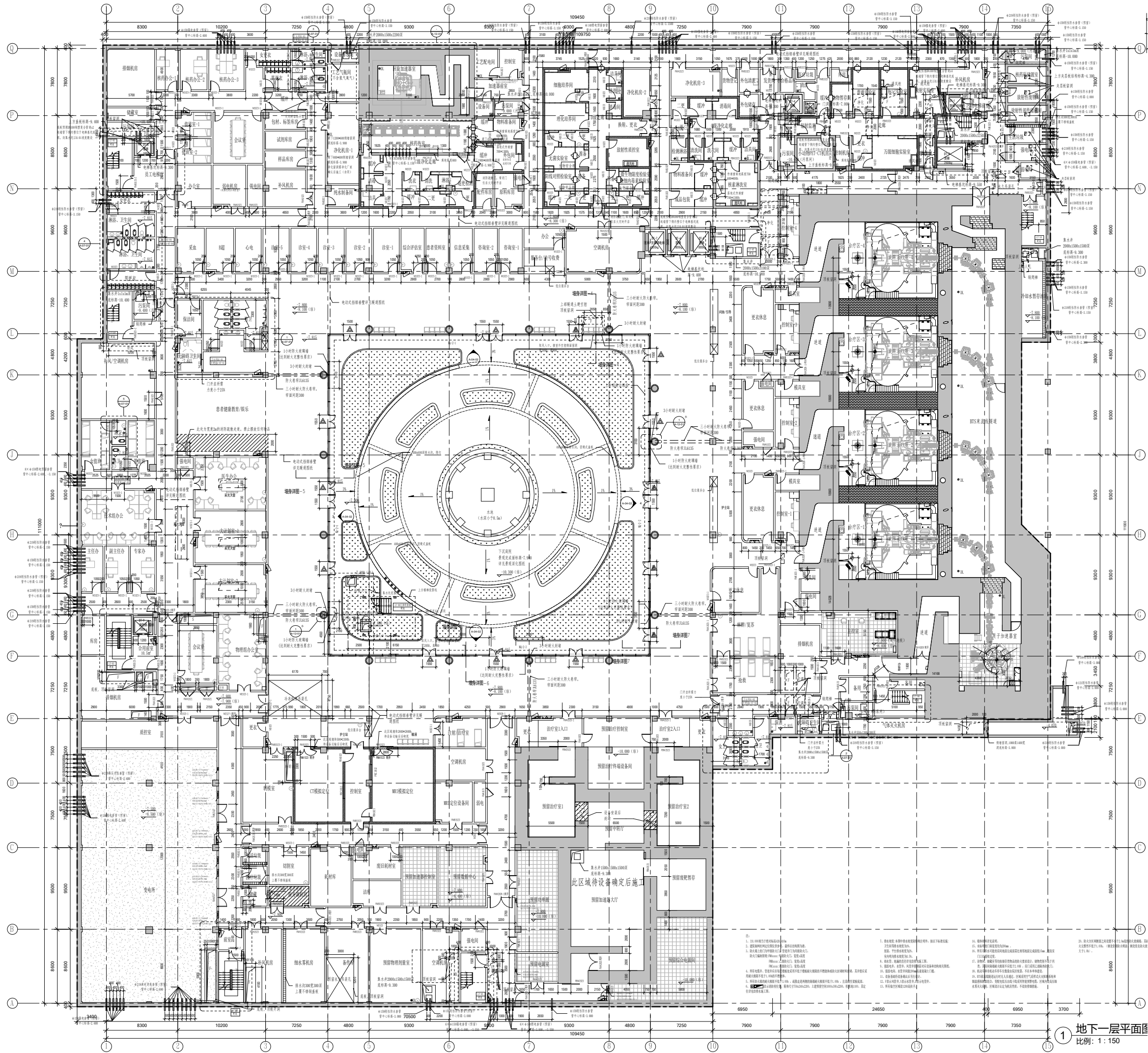
03. **CANCER CENTER**
OF XI'AN INTERNATIONAL MEDICAL CENTER

Location: Xi'an, China
Status: Main structures completed
Time: Oct. 2021 - now
Construction area: 14005.57 m²
Role: Designer in all phases
Concept design and plan design
Construction documents
Coordination with other consultants (rendering company, construction and MEP department)
Project management



DESIGN CONCEPT





04. CANCER CENTER OF HEYOU INTERNATIONAL HOSPITAL

Location: Foshan, China
Status: Structures completed
Time: Mar. 2021 - now
Construction area: 16924.1 m²
Role: Lead designer in all phases
Concept design and 3d design
Elevation control, elevation and wall section drawings
Coordination with other consultants (rendering company,
cladding consultants, construction and MEP department)



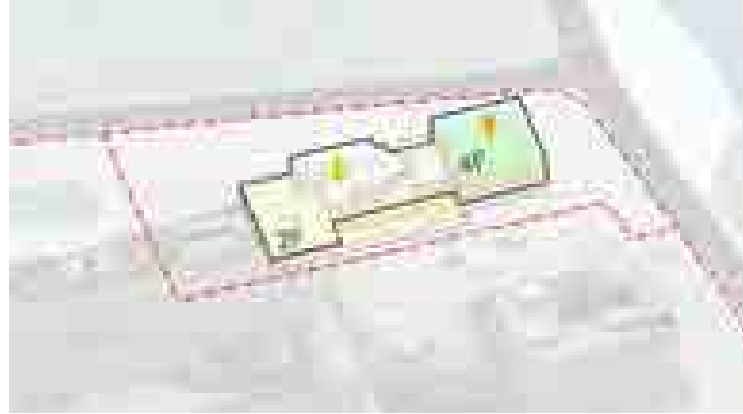
DESIGN CONCEPT



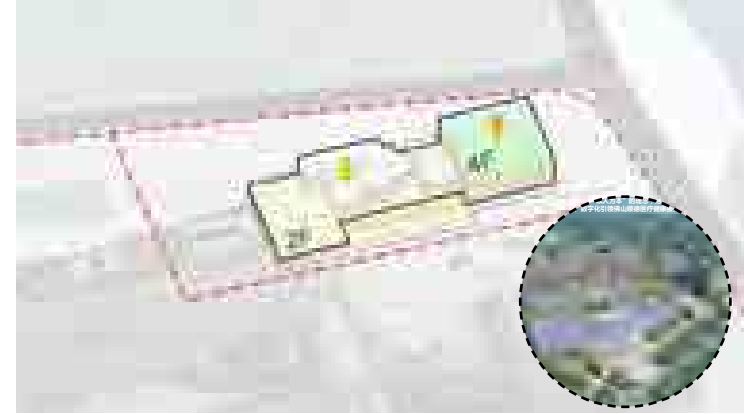
01. Site



02. Proton and office



03. Floors define



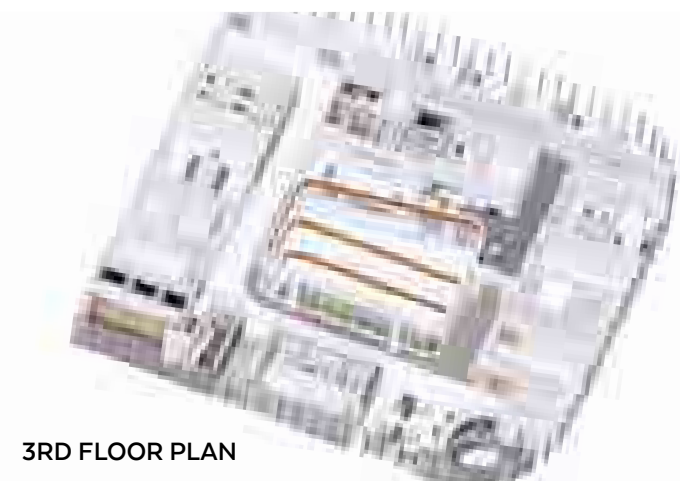
04. Facade design



1ST FLOOR PLAN



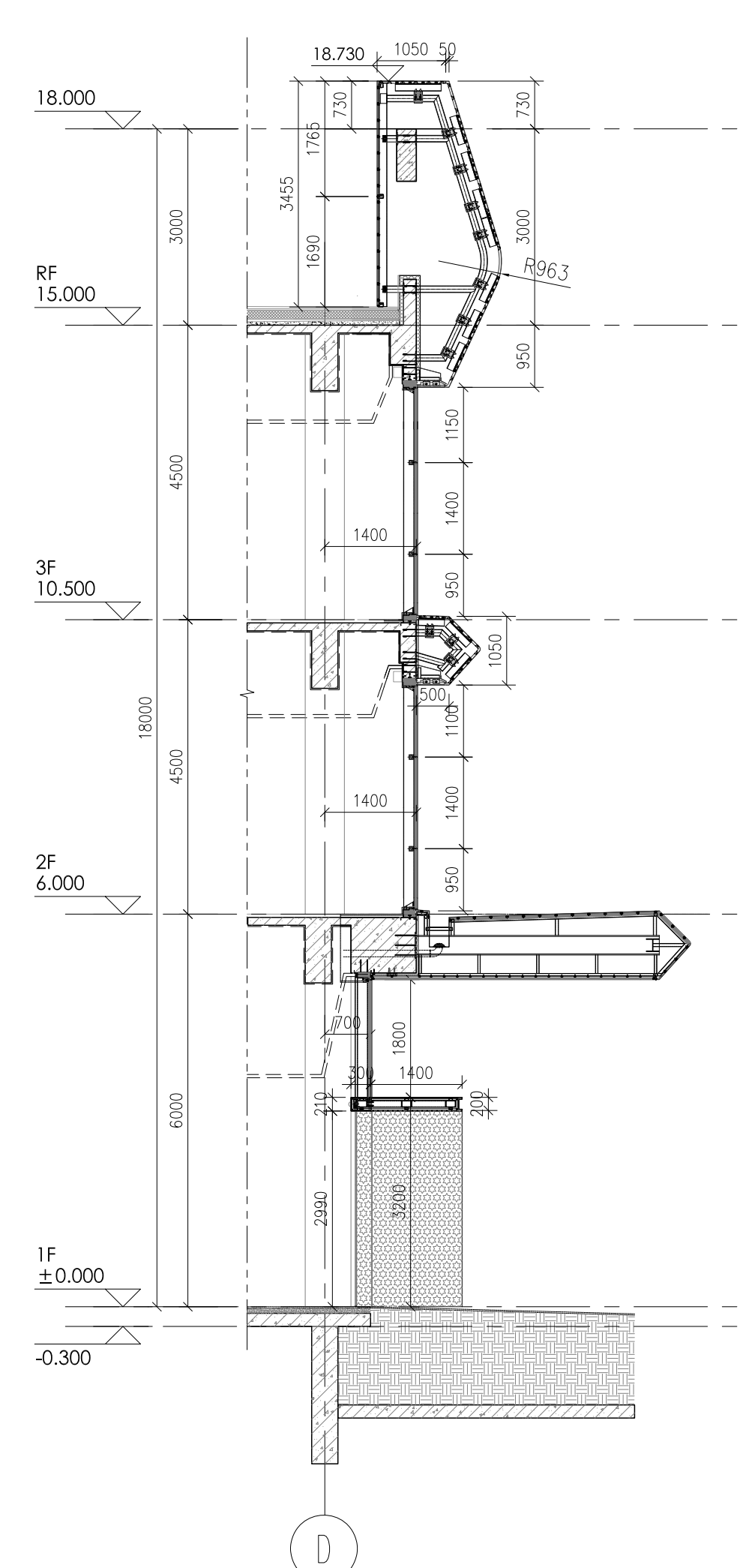
2ND FLOOR PLAN



3RD FLOOR PLAN



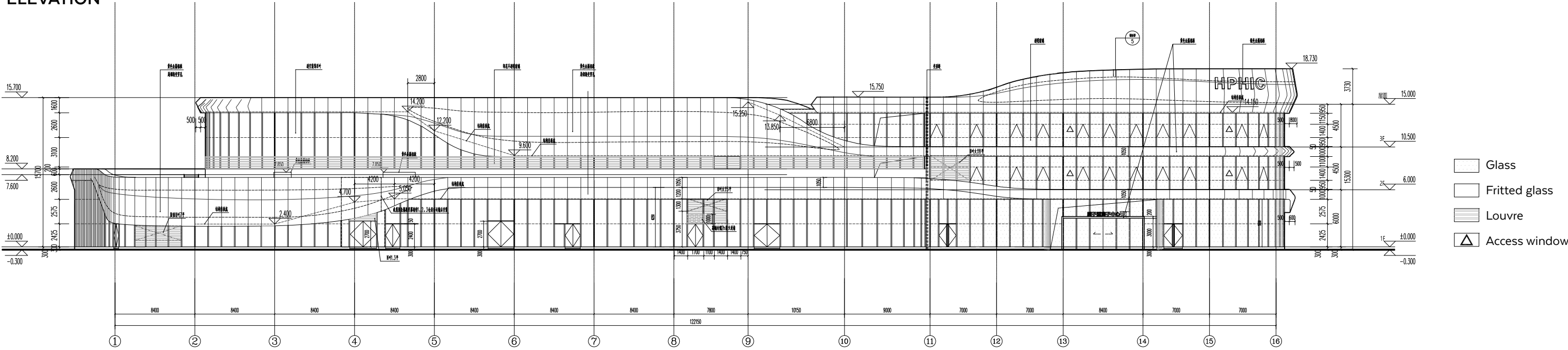
SECTION DETAILS



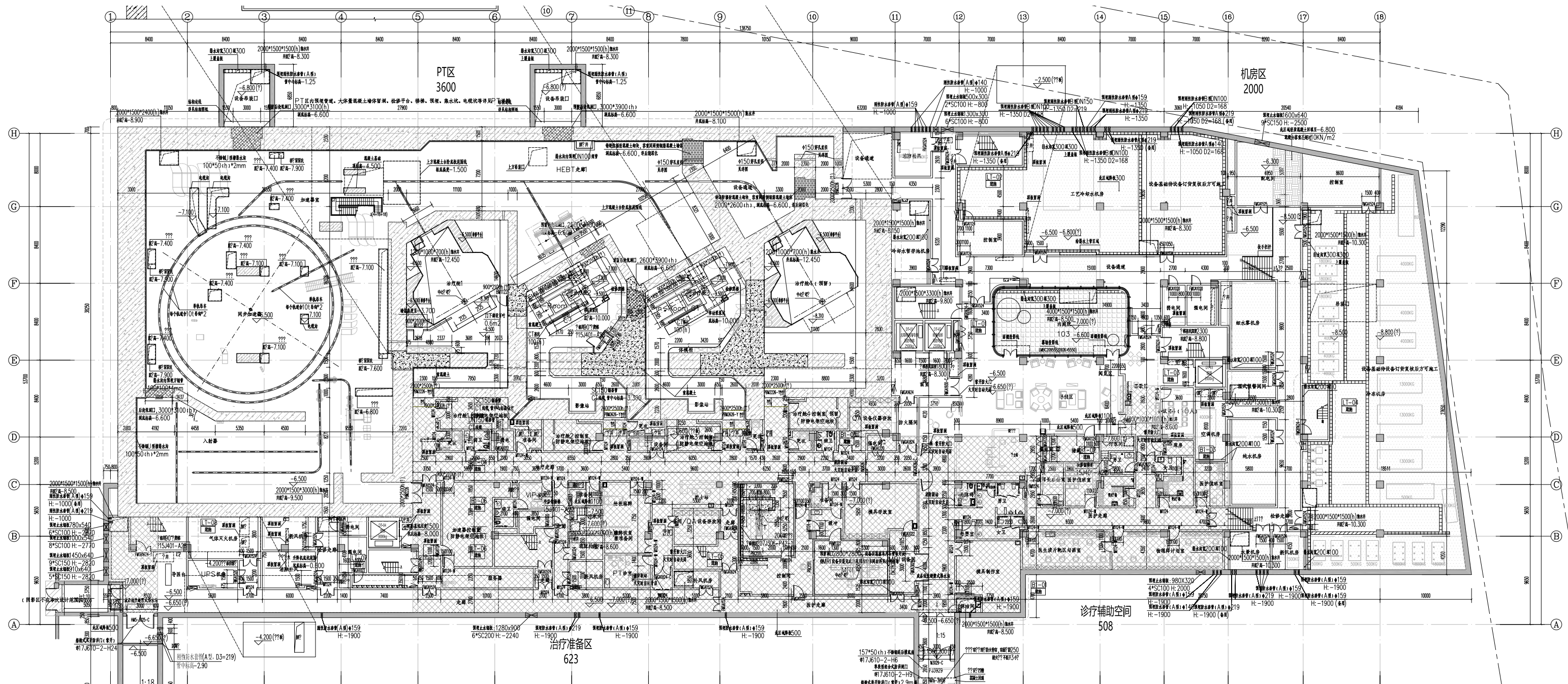
MATERIAL SAMPLES TESTING



ELEVATION

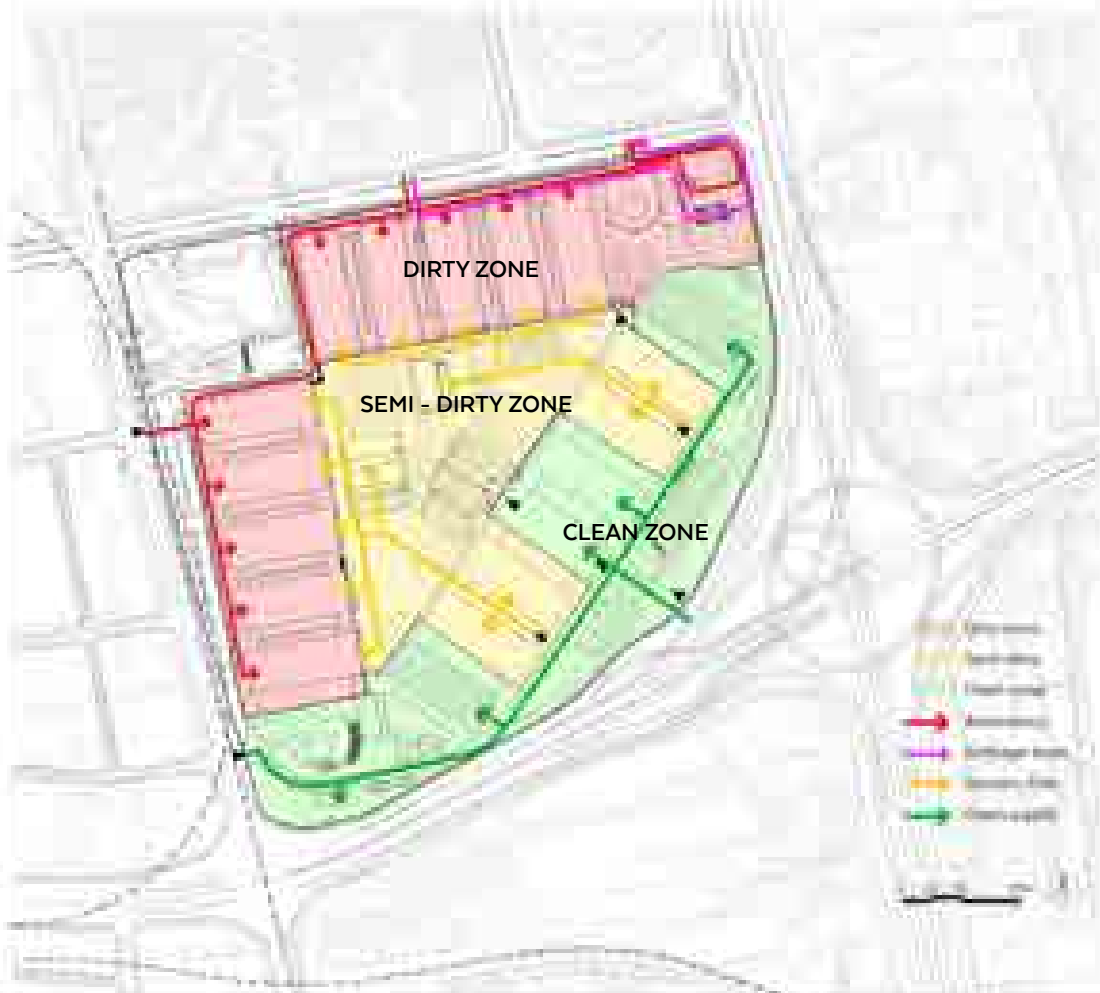


B1 FLOOR PLAN





ZONING



TEMPORARY PARTITION



A WARD UNIT



WARD WITH BATHROOM ZONE



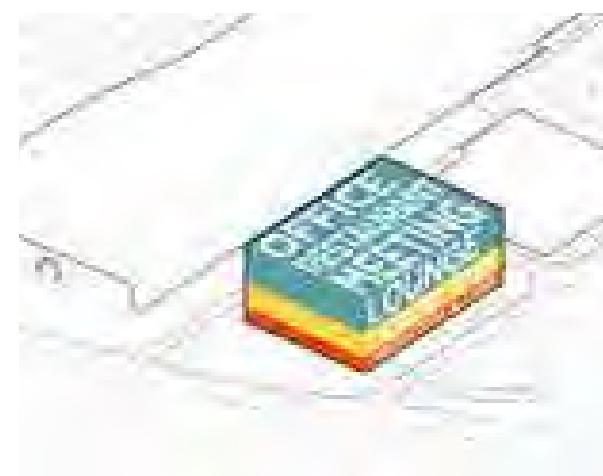
DON/DOFF PLAN



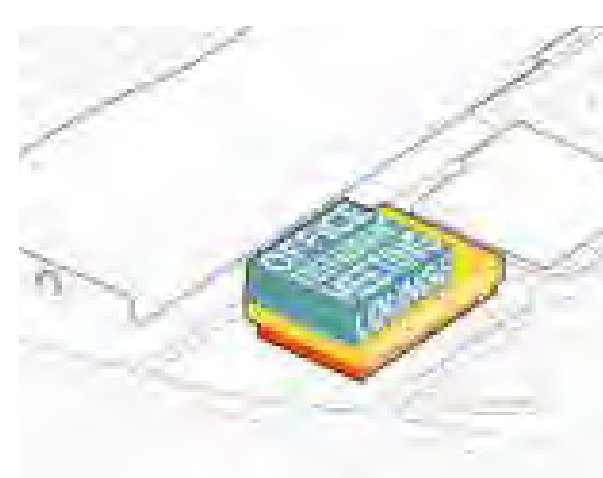
OFFICE & LAB BUILDING



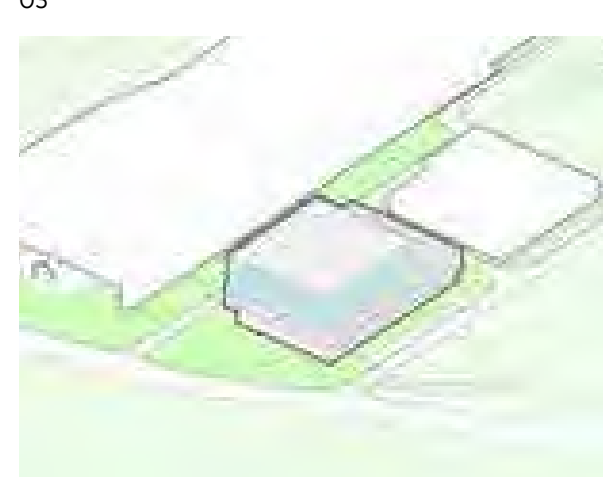
01



02



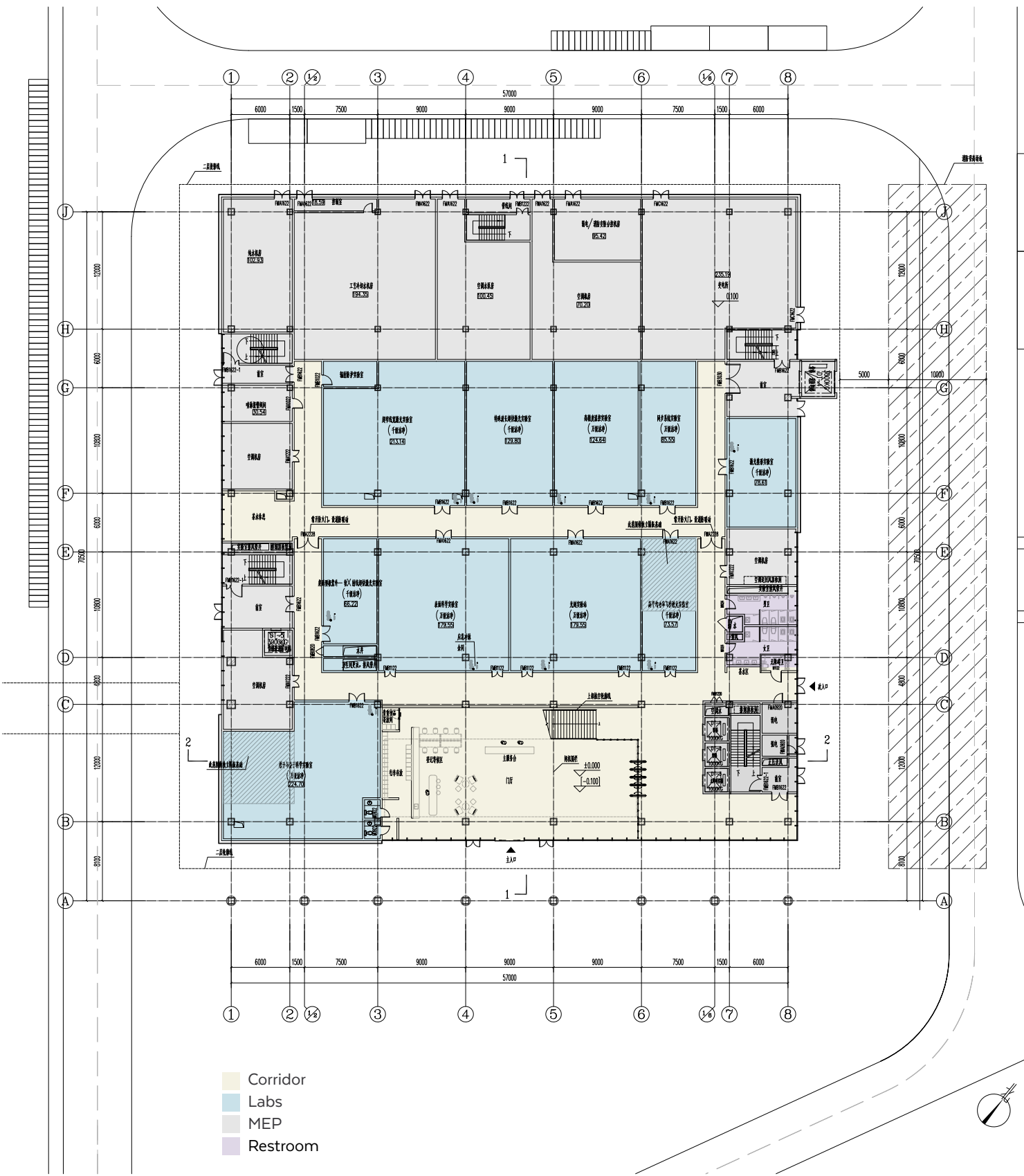
03



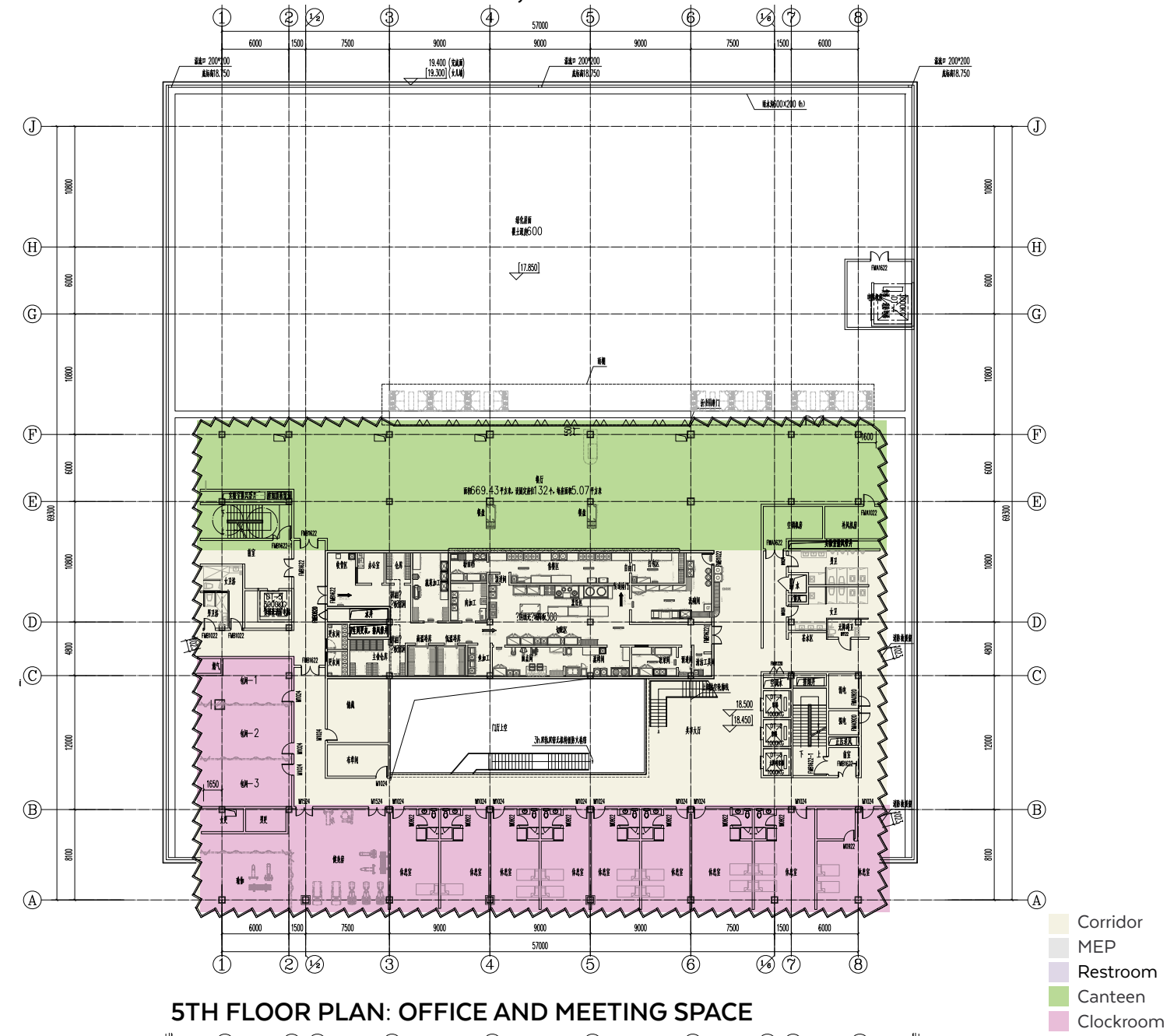
04



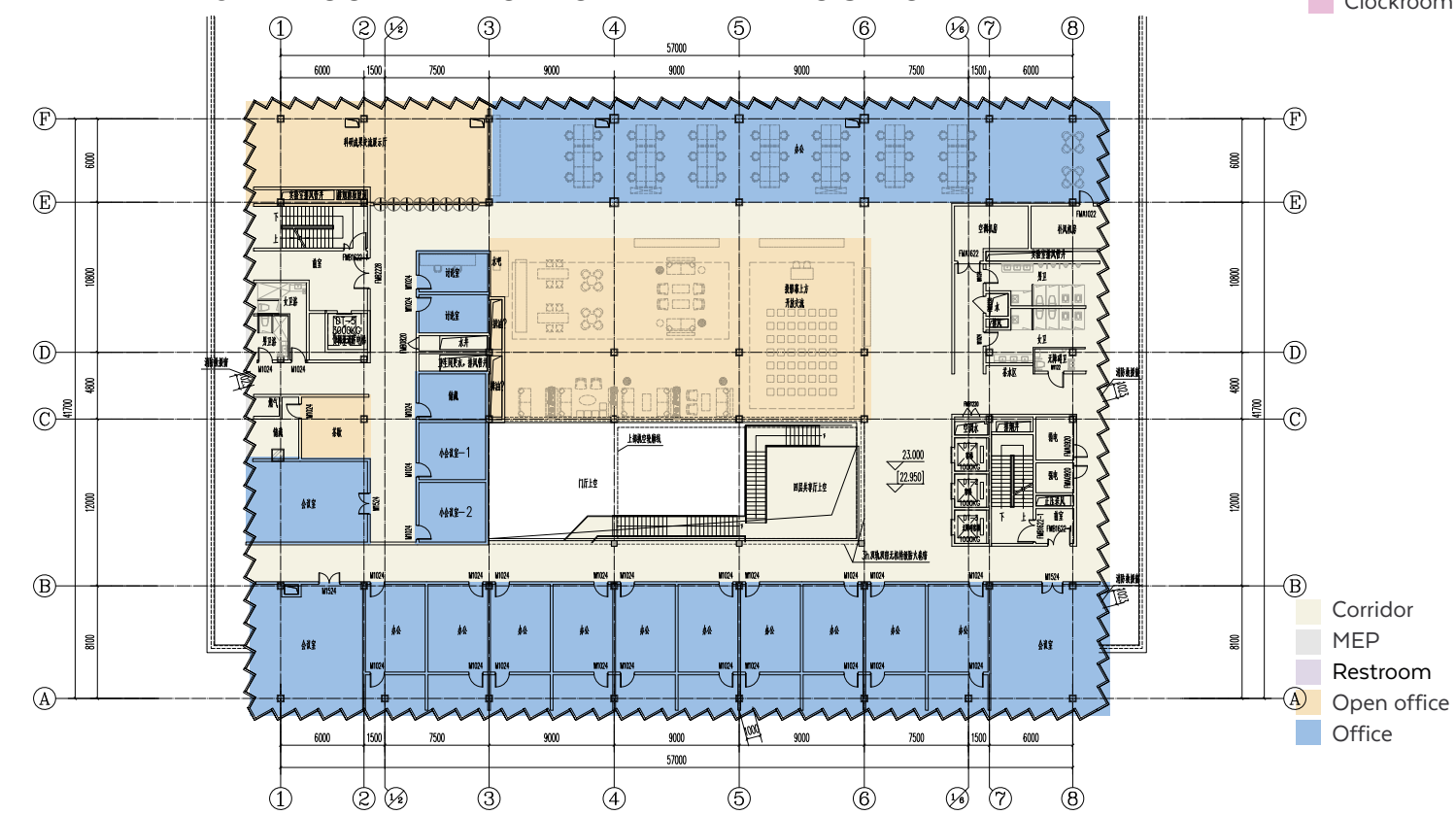
1ST FLOOR PLAN: LABS AND LOBBY



4TH FLOOR PLAN: CANTEN, GYM AND BREAK ROOM



5TH FLOOR PLAN: OFFICE AND MEETING SPACE



07. IRCAD CENTER

LAPAROSCOPIC AND ROBOTIC SURGICAL TRAINING CENTER OF WUXI SK HOSPITAL

Location: Wuxi, China
Status: Completed
Time: Oct. 2020 - Sep. 2023
Construction area: 28669.1 m²
Role: Providing code supervision
Construction documents
Cooperation with construction, MEP apartment and cladding consultant
Construction administration





01. FACADE DETAILS



02. ROOF GARDEN



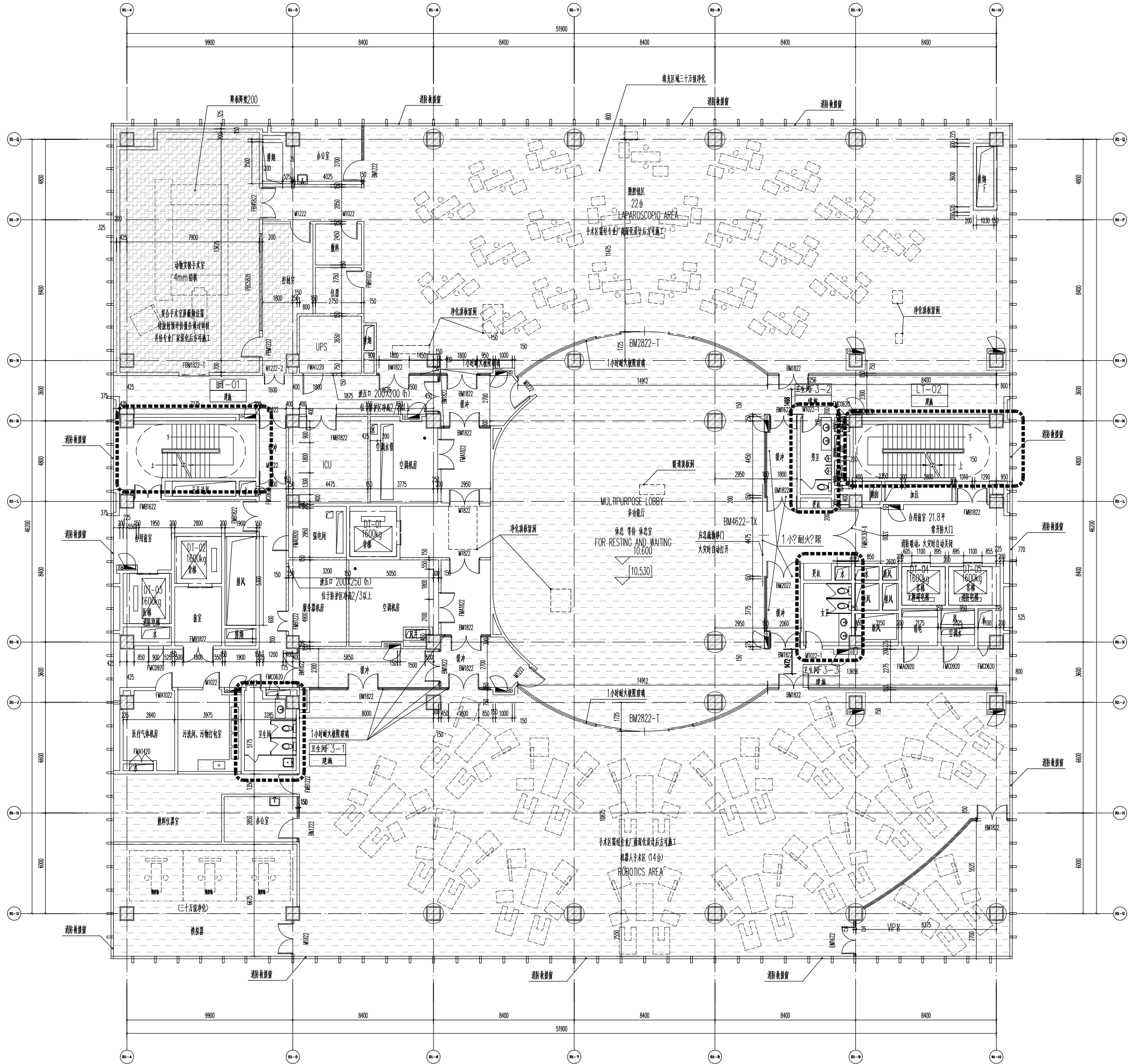
03. HALL OF ROBOTIC SURGERY



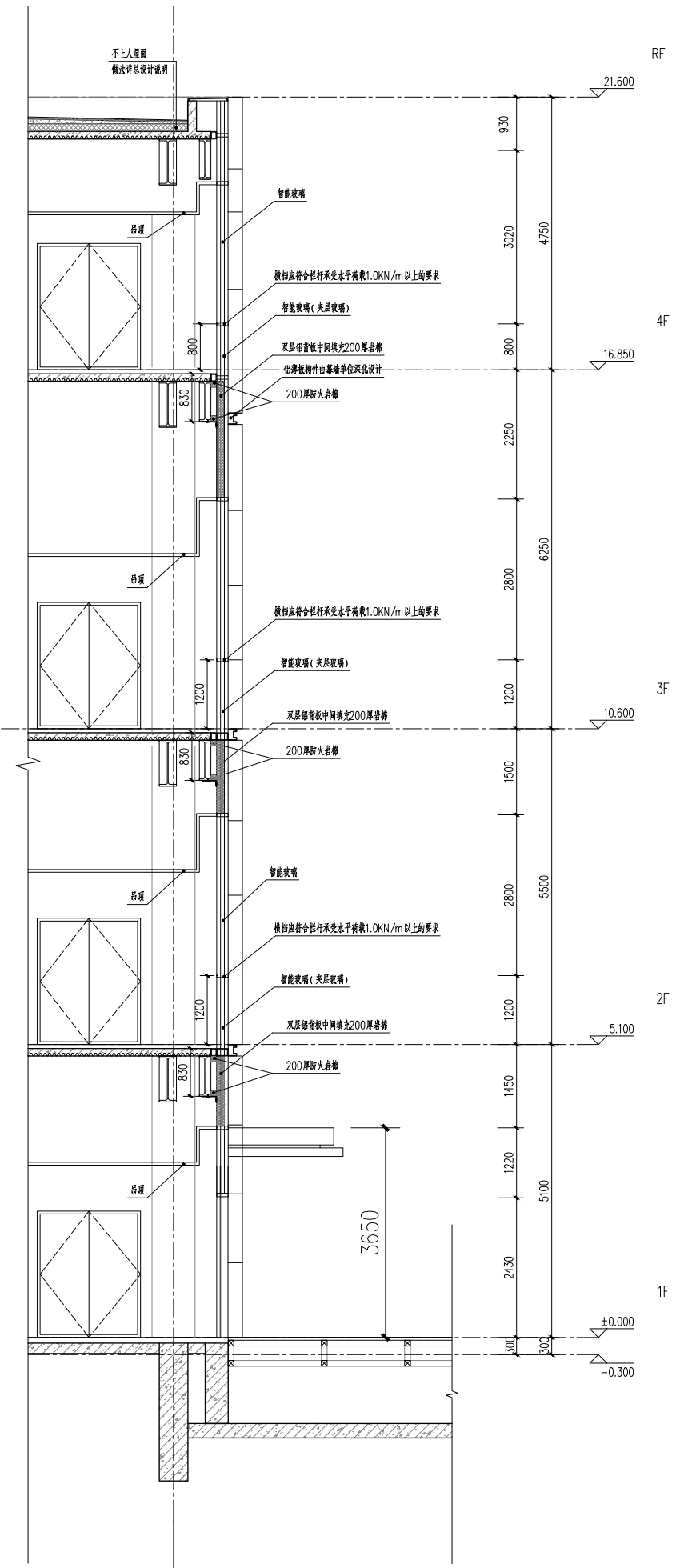
04. LECTURE HALL



3RD FLOOR PLAN



WALL SECTION

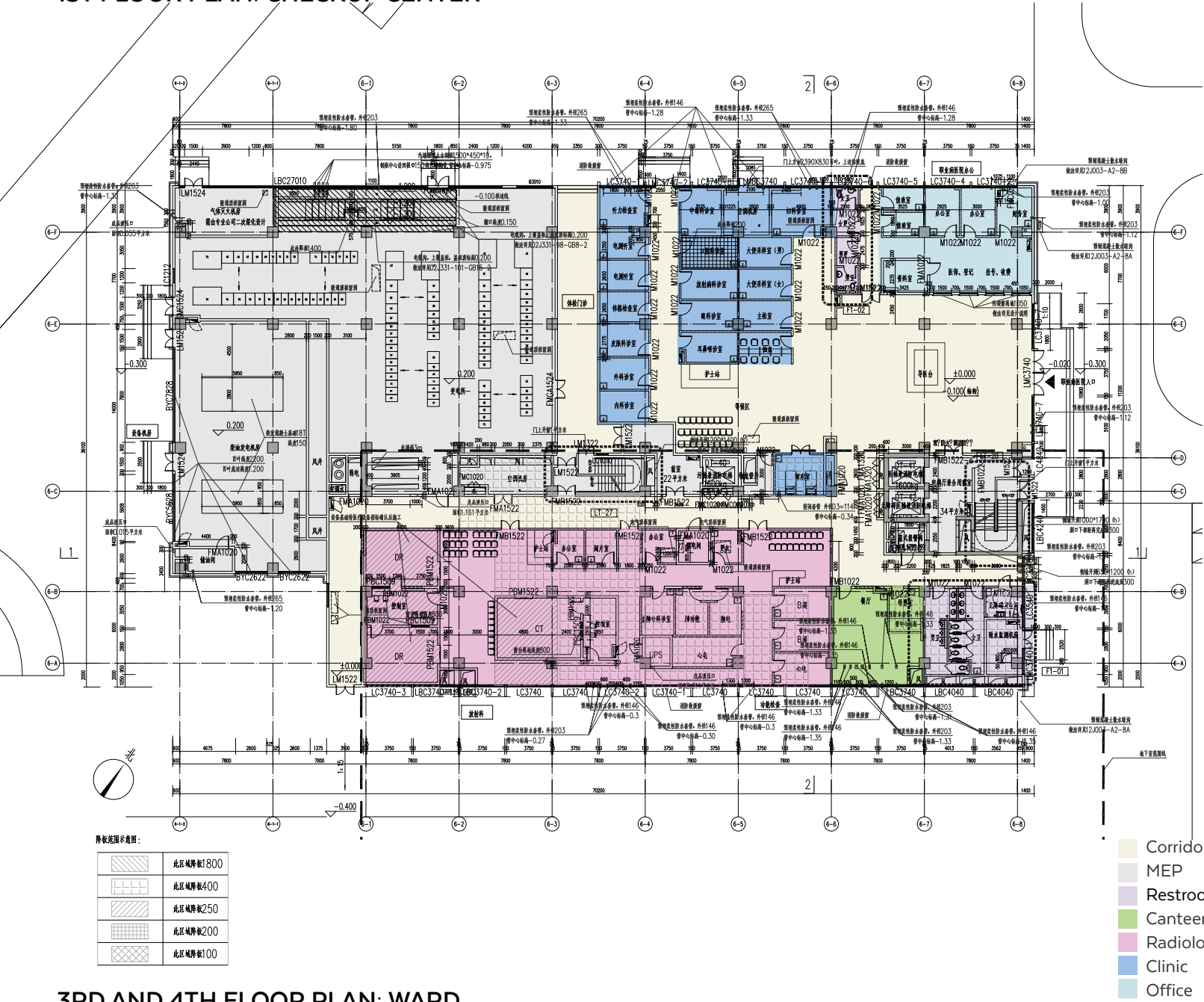


08. HAINAN HOSPITAL OF TRADITIONAL CHINESE MEDICINE

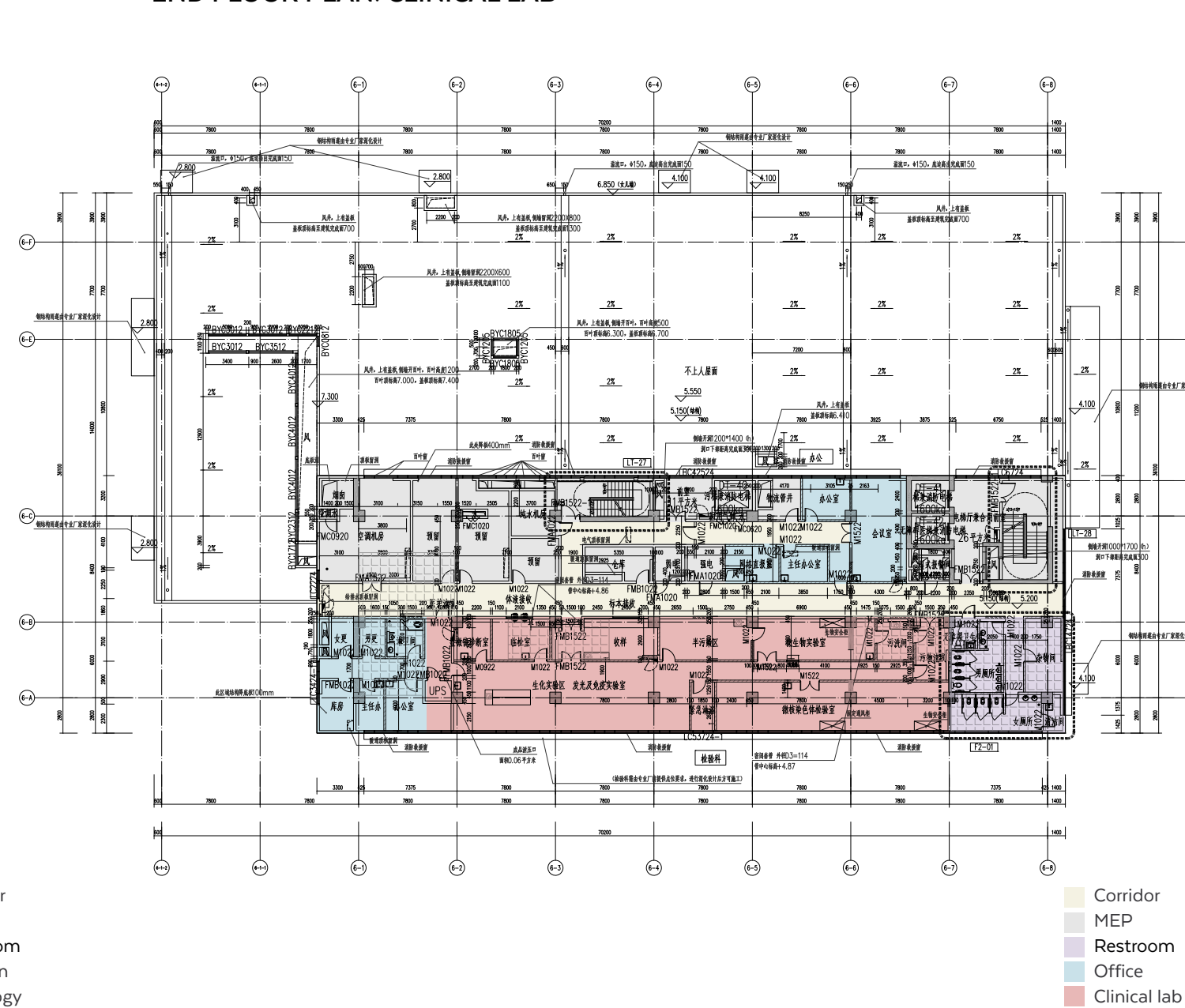
Location: Hainan, China
Status: Completed
Time: July, 2020 - Sep. 2022
Site area: 147540.29 m²
Hospital beds number: 1241
Construction area of Occupational Disease Faculty: 7931.7 m²
Total construction area: 199476.55 m²
Role: Construction documents of Occupational Disease Faculty



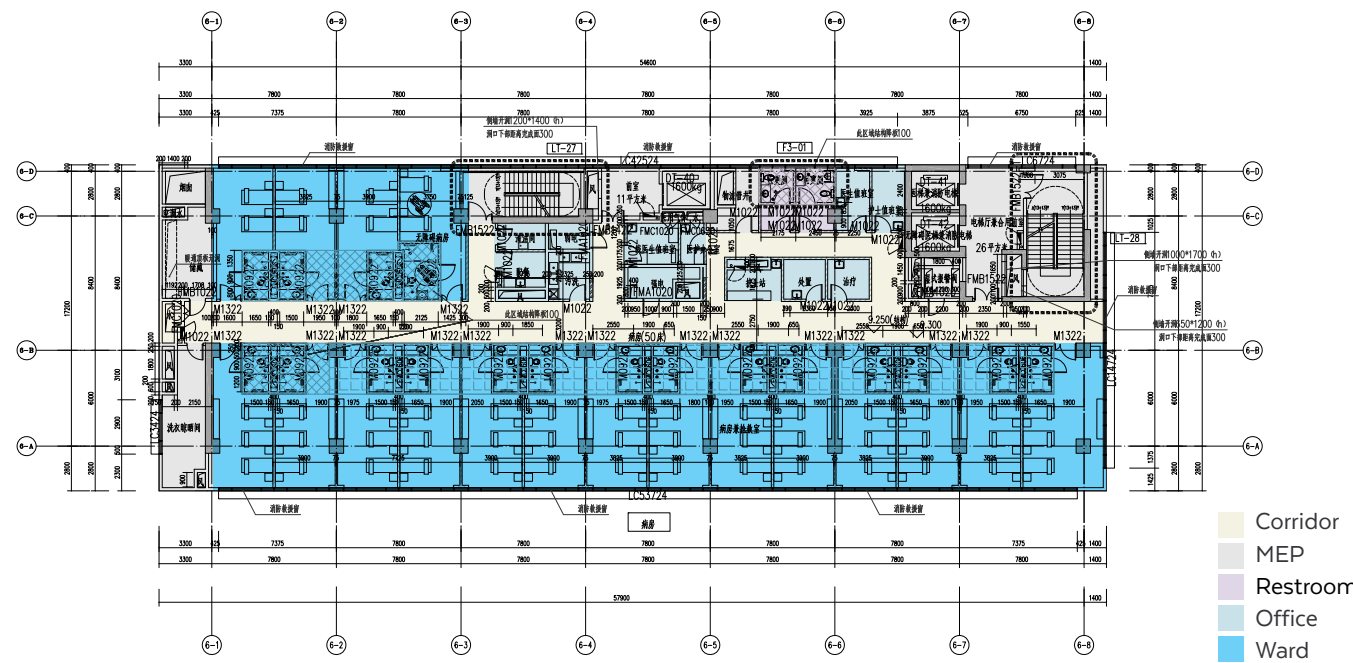
1ST FLOOR PLAN: CHECKUP CENTER



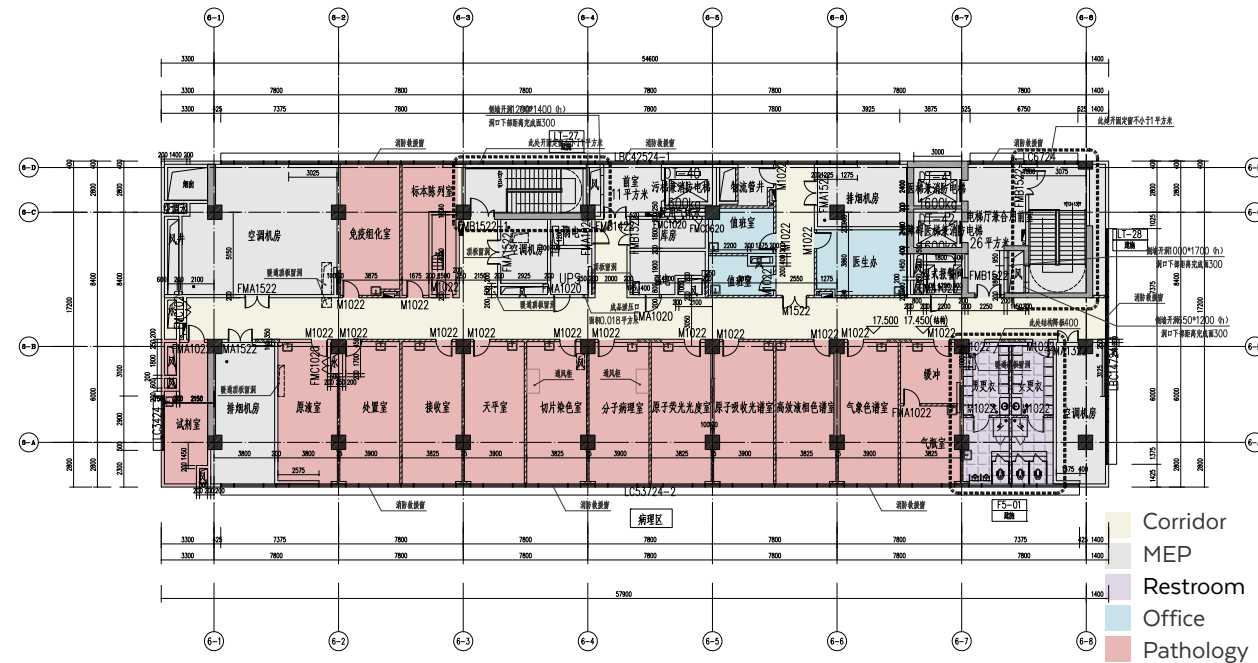
2ND FLOOR PLAN: CLINICAL LAB



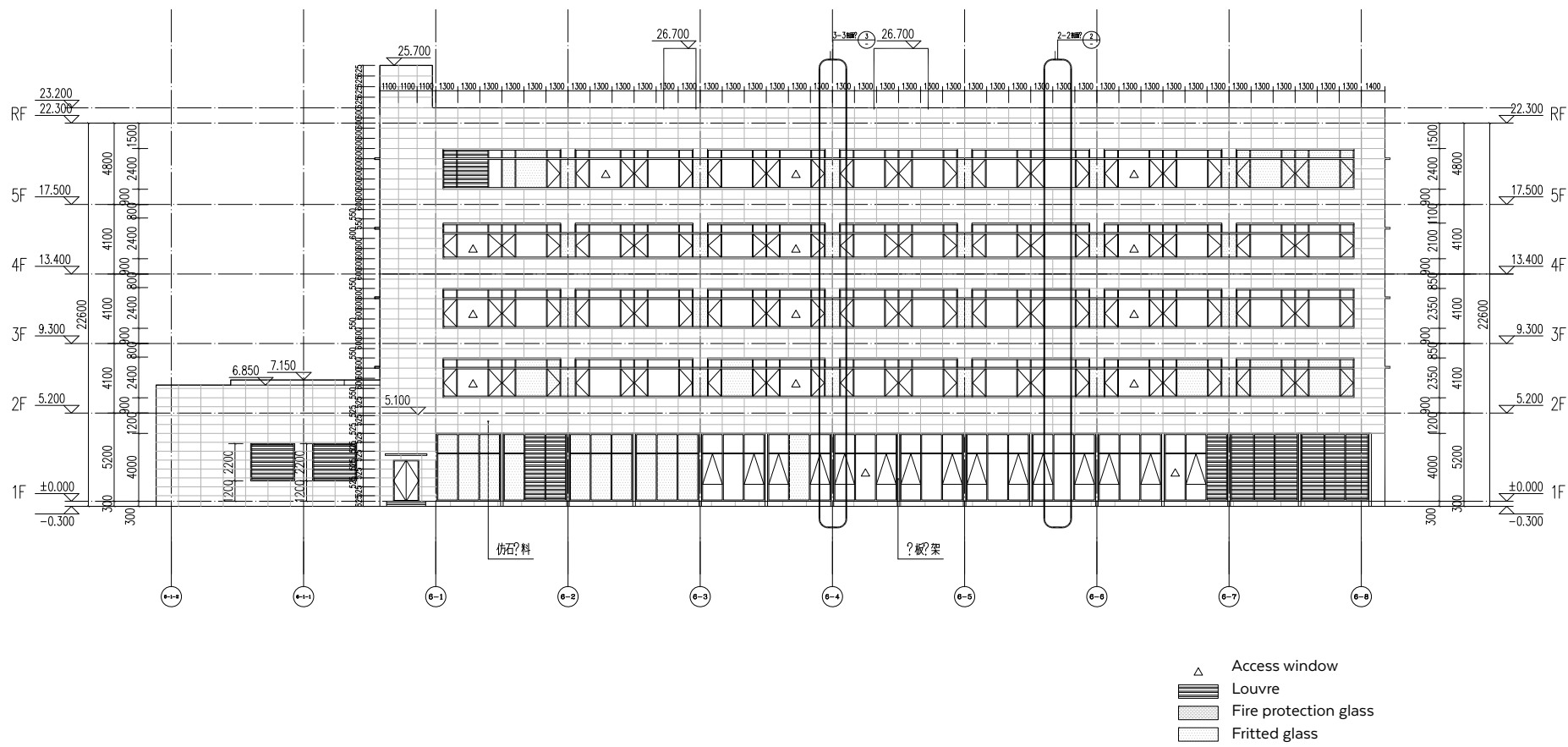
3RD AND 4TH FLOOR PLAN: WARD



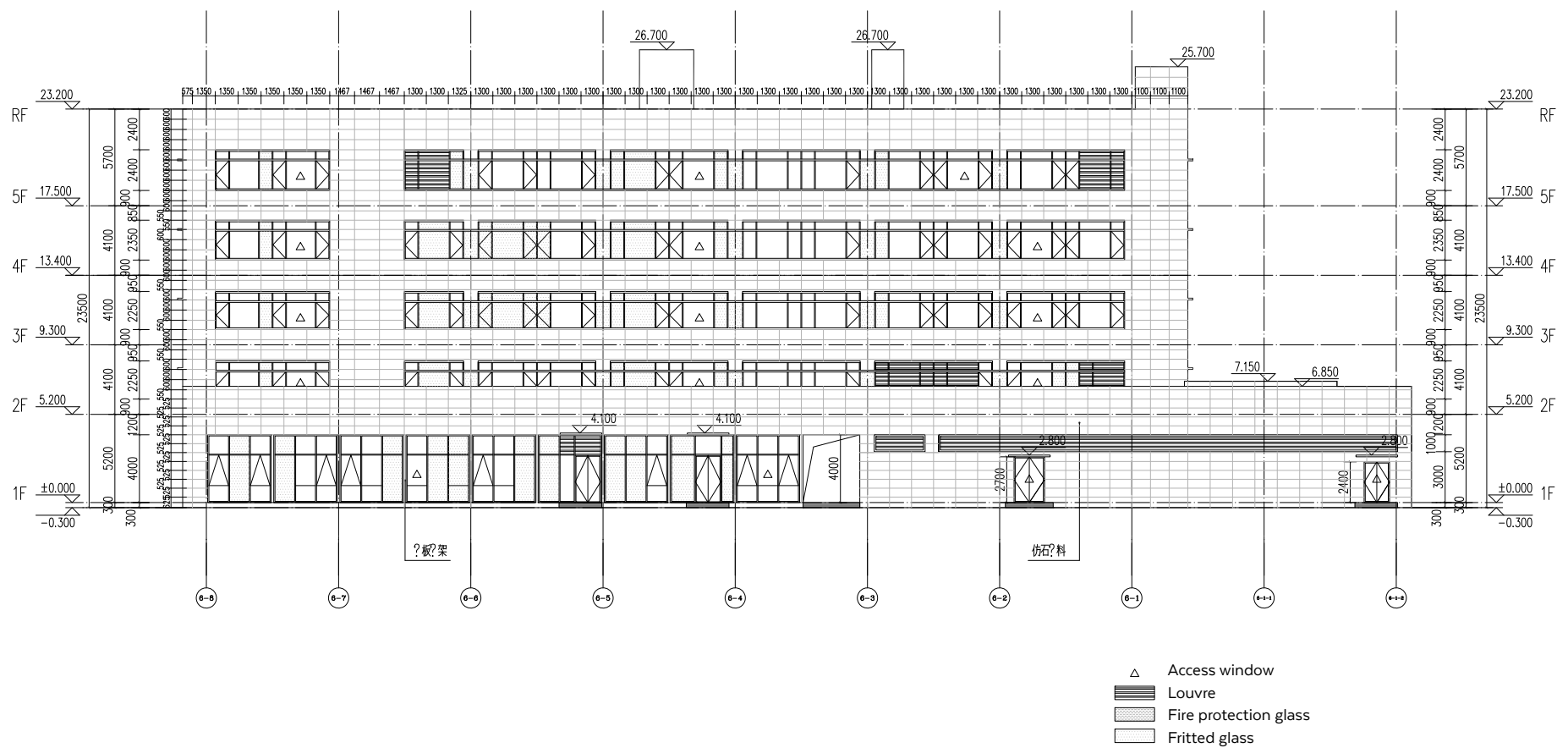
5TH FLOOR PLAN: CLINICAL PATHOLOGY



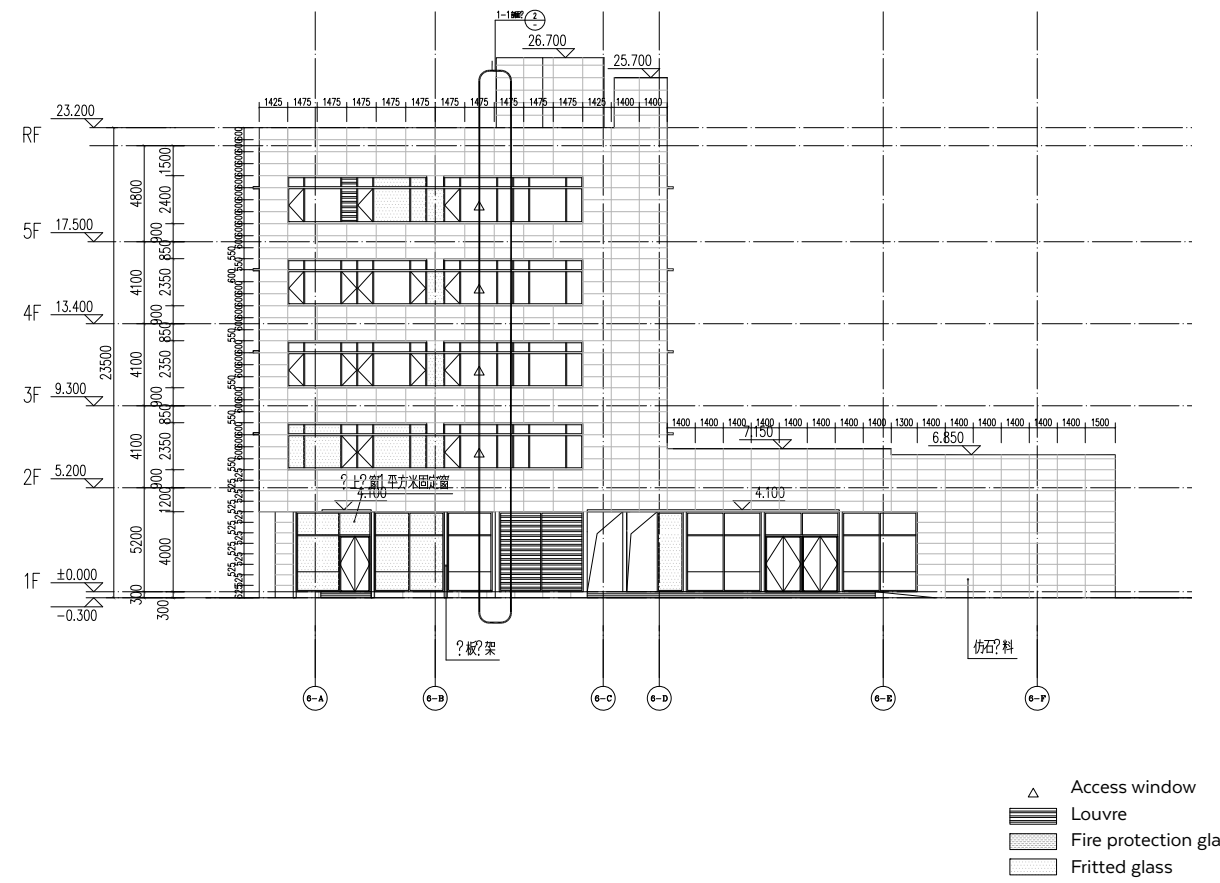
SOUTH ELEVATION



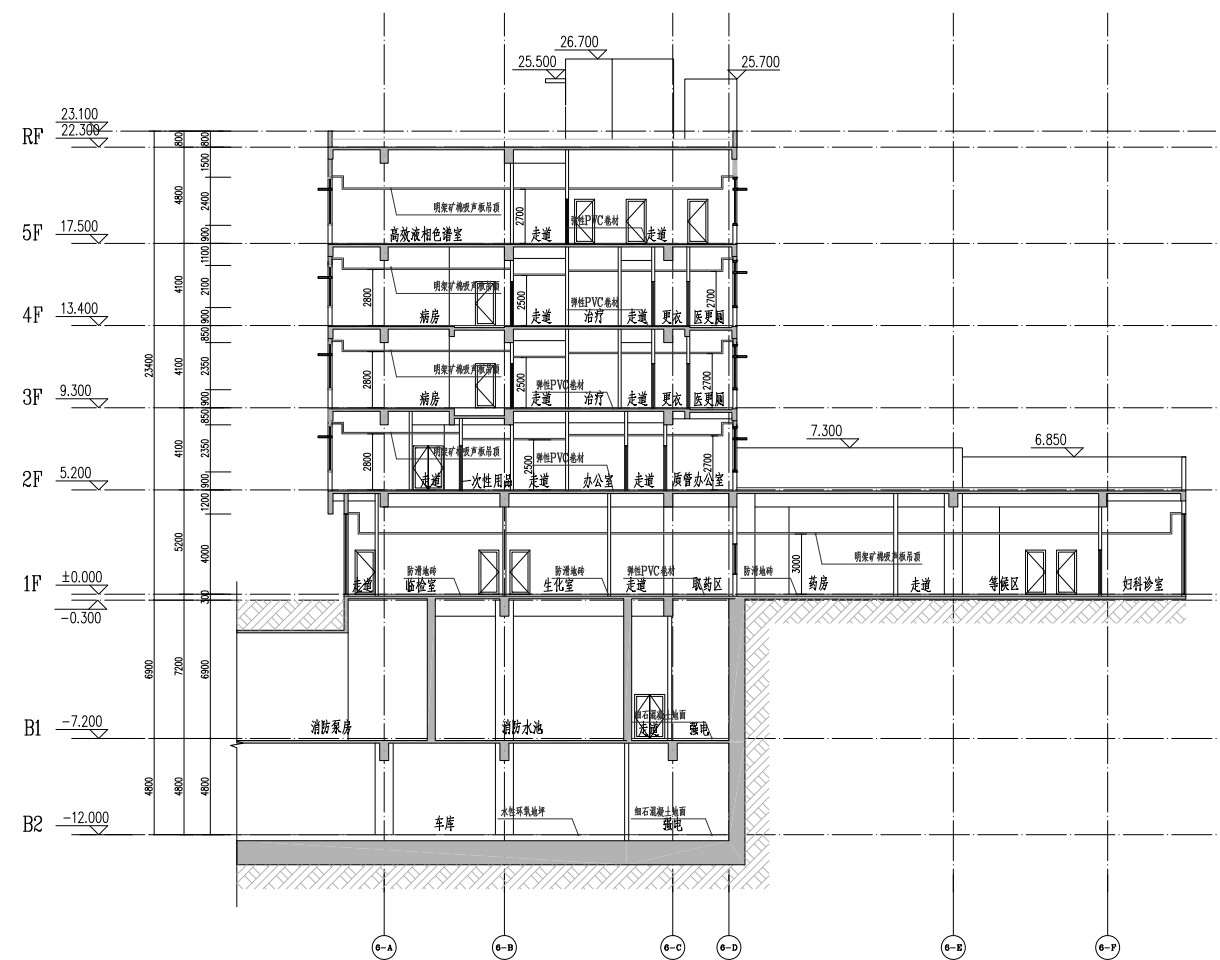
NORTH ELEVATION



WEST ELEVATION



SECTION



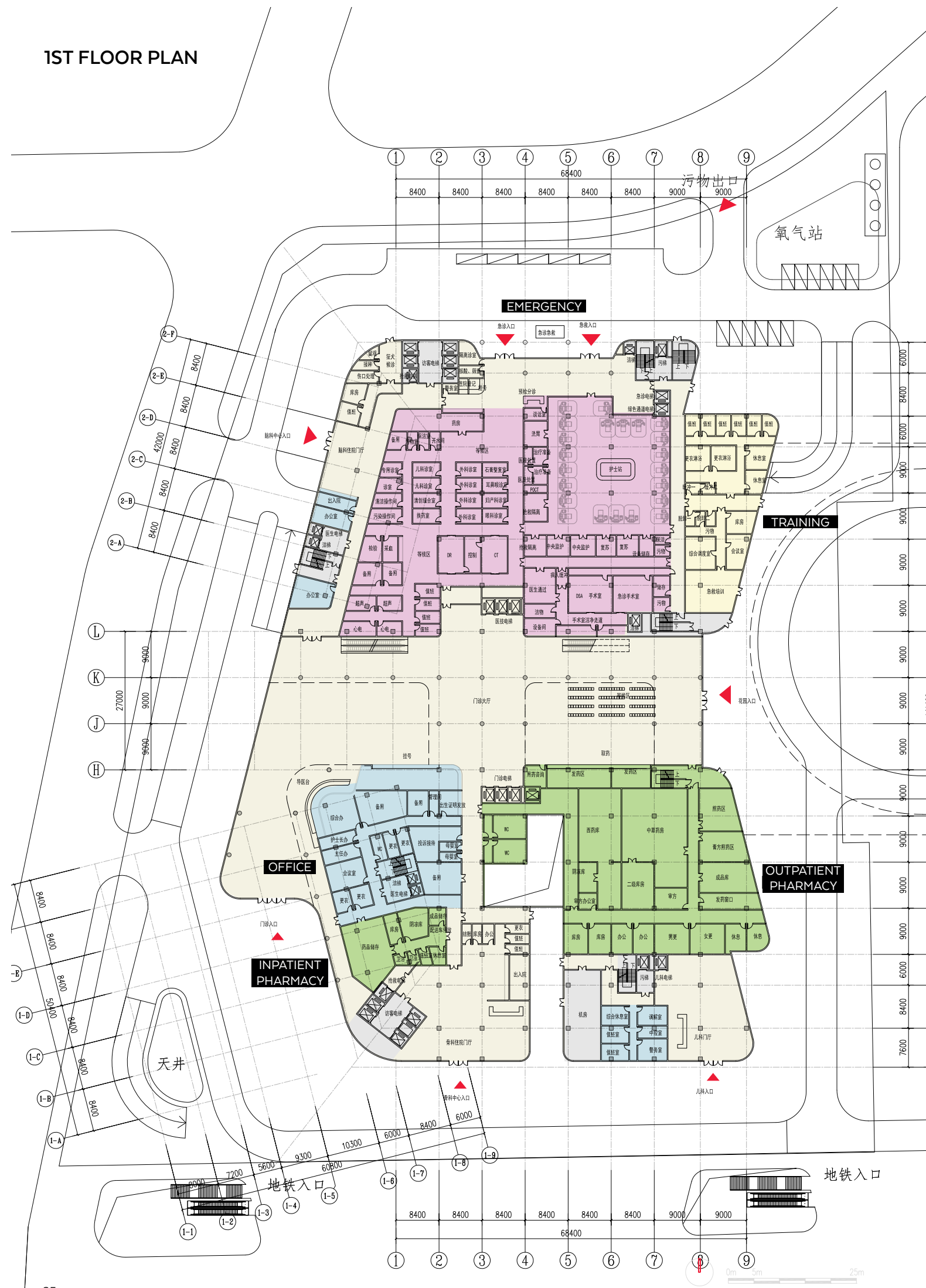
09.SHENZHEN HOSPITAL

SHENZHEN SECOND PEOPLE'S HOSPITAL

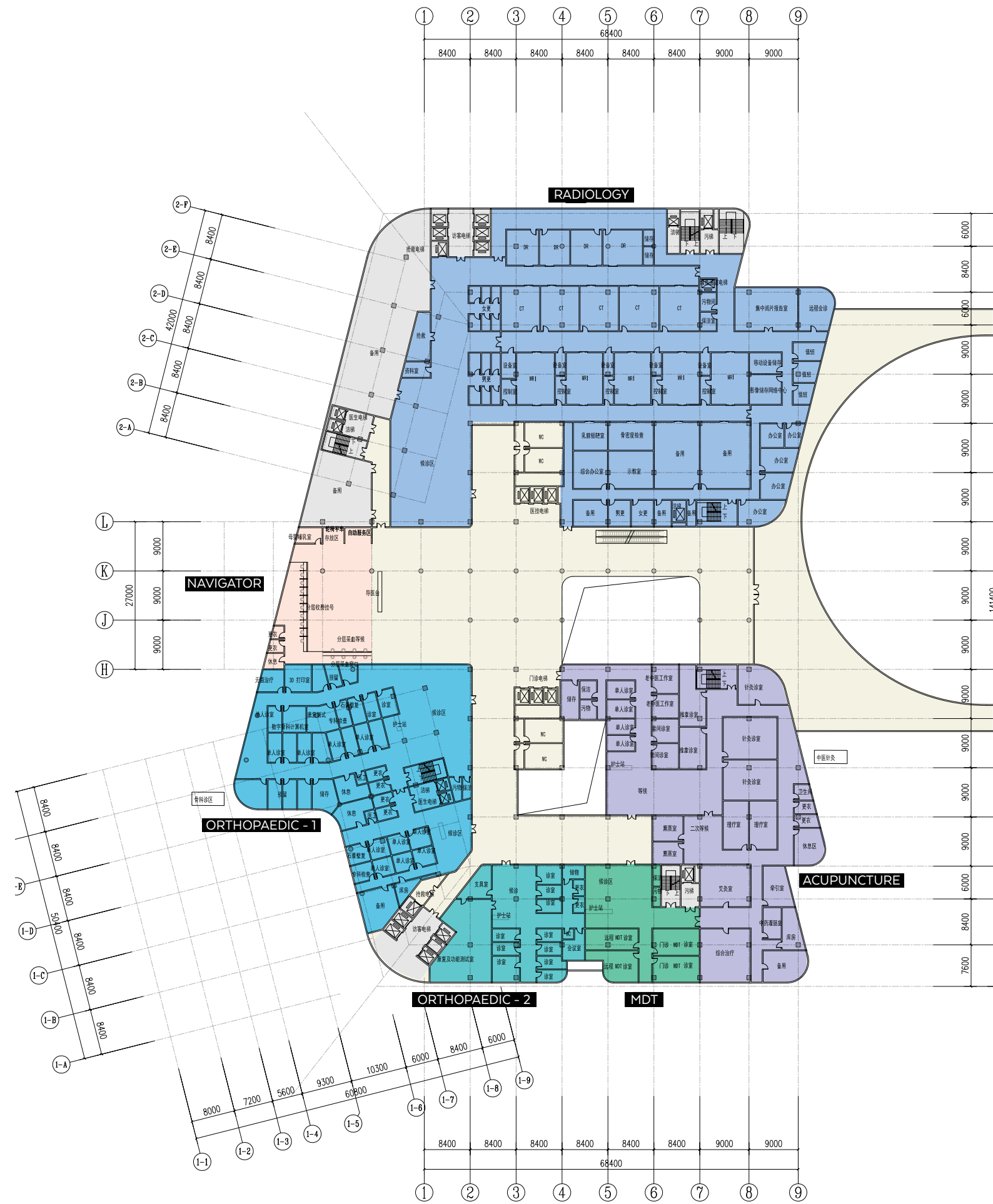
Location: Shenzhen, China
Type: Competition
Time: June, 2023
Site area: 4270 m²
New hospital beds number: 1500
New build construction area: 206221 m²
Role: Plan design



1ST FLOOR PLAN



4TH FLOOR PLAN



SECTION B

ACADEMIC PROJECTS



01. ALIVE

SPIRITUAL LIVING SPACE

LOCATION: HONG KONG
INDIVIDUAL ACADEMIC PROJECT

The project tries to create another way to sacrifice, aiming to solve the conflicts between modern high-density city and traditional sacrifice.

It is believed that souls persist in Chinese traditional culture. So the new architecture reproduces the living scenes of the decedent and , thus, allows the decedent "absently participate" in our life.

WHY A CEMETERY TOWER

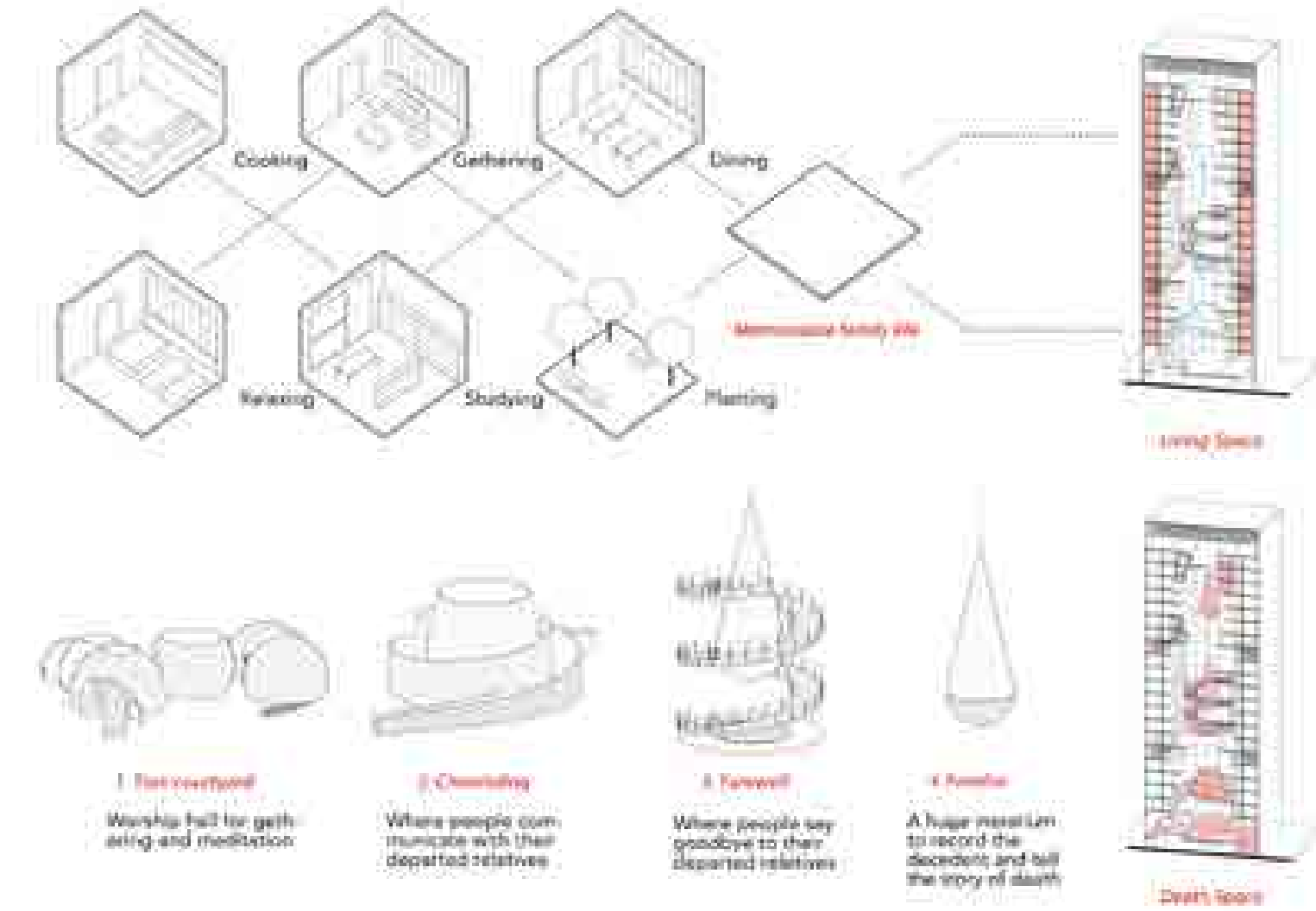
A CEMETERY		1st	2nd	3rd	4th	5th	APARTMENT
Asia	Hong Kong	\$20800 = 1.5m apartment					
	Beijing	\$13600 = 2.2m apartment					
	Shanghai	Cemetery \$15000 = 4.05m apartment					
	Hangzhou	Cemetery \$9500 = 3.2m apartment					
	Guangzhou	\$4000 = 1.1m apartment					
	Shenzhen	\$6000 = 0.9m apartment					
	Chongqing	\$2000 = 1.3m apartment					
	Chengdu	Cemetery \$6400 = 4m apartment					
Europe	Tokyo	Cemetery \$13000 = 5m land					
	London	\$11143 = 1.9m apartment					
	Paris	\$7622 = 1.5m apartment					
	Berlin	\$3400 = 1m apartment					
	Madrid	\$4700 = 1.6m apartment					
America	California	Cemetery \$10500 = 4.5m apartment					
	Washington D.C.	\$3200 = 2.13m apartment					

Price comparison

A Cemetery ≈ 3m Living Space

A Family Cemetery ≈ 20m Living Space

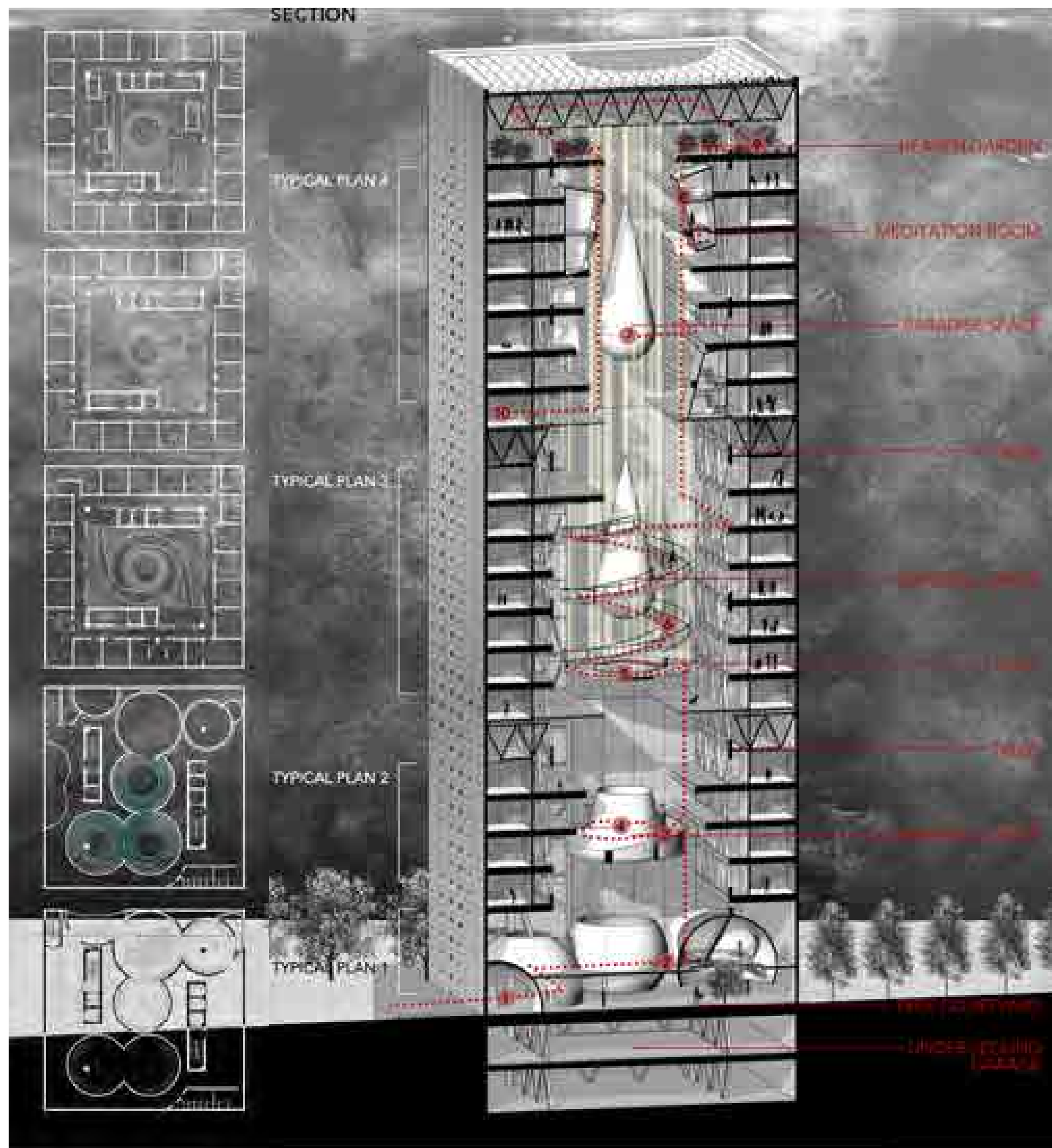
DEATH SPACE & LIVE SPACE



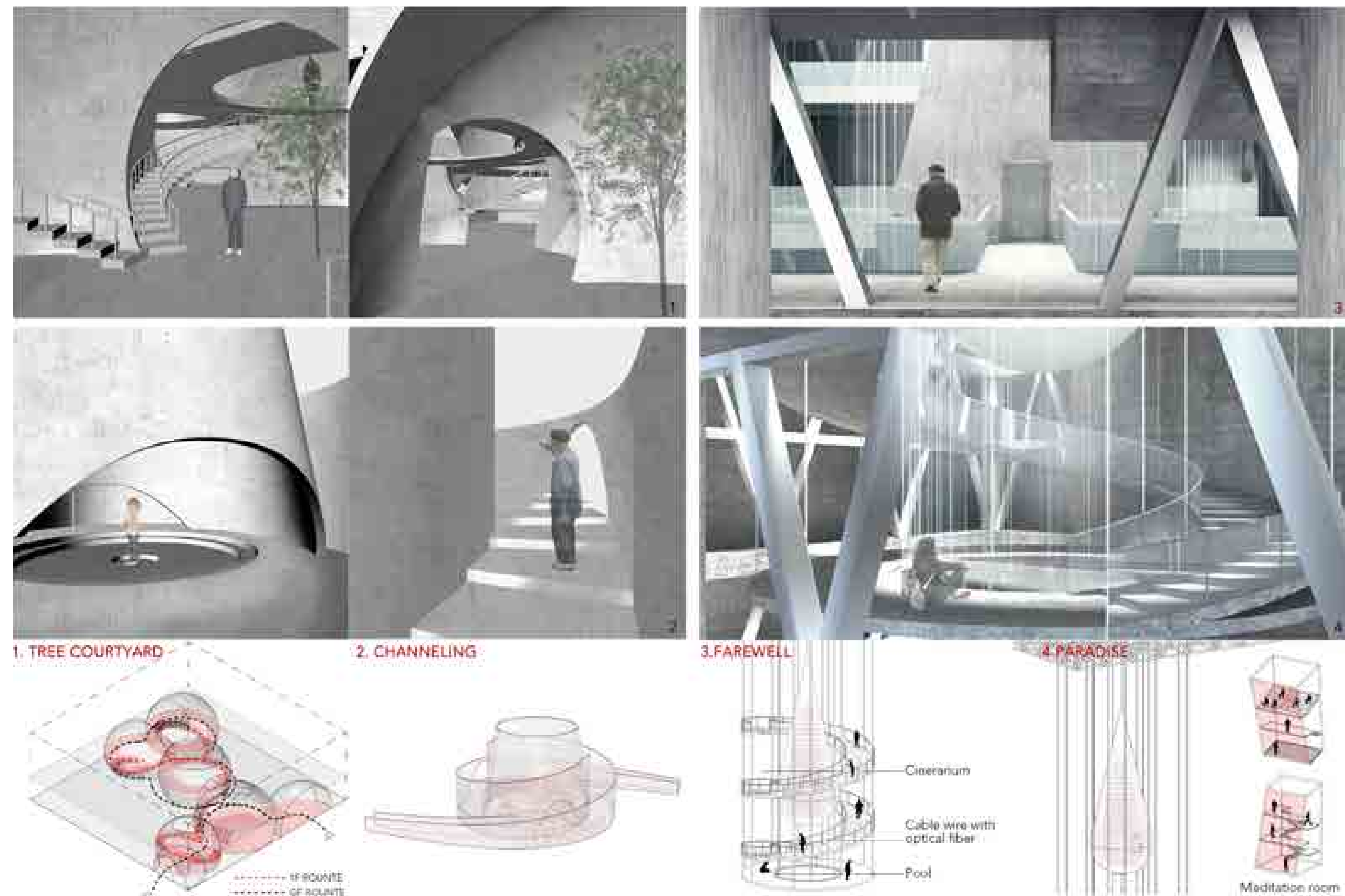
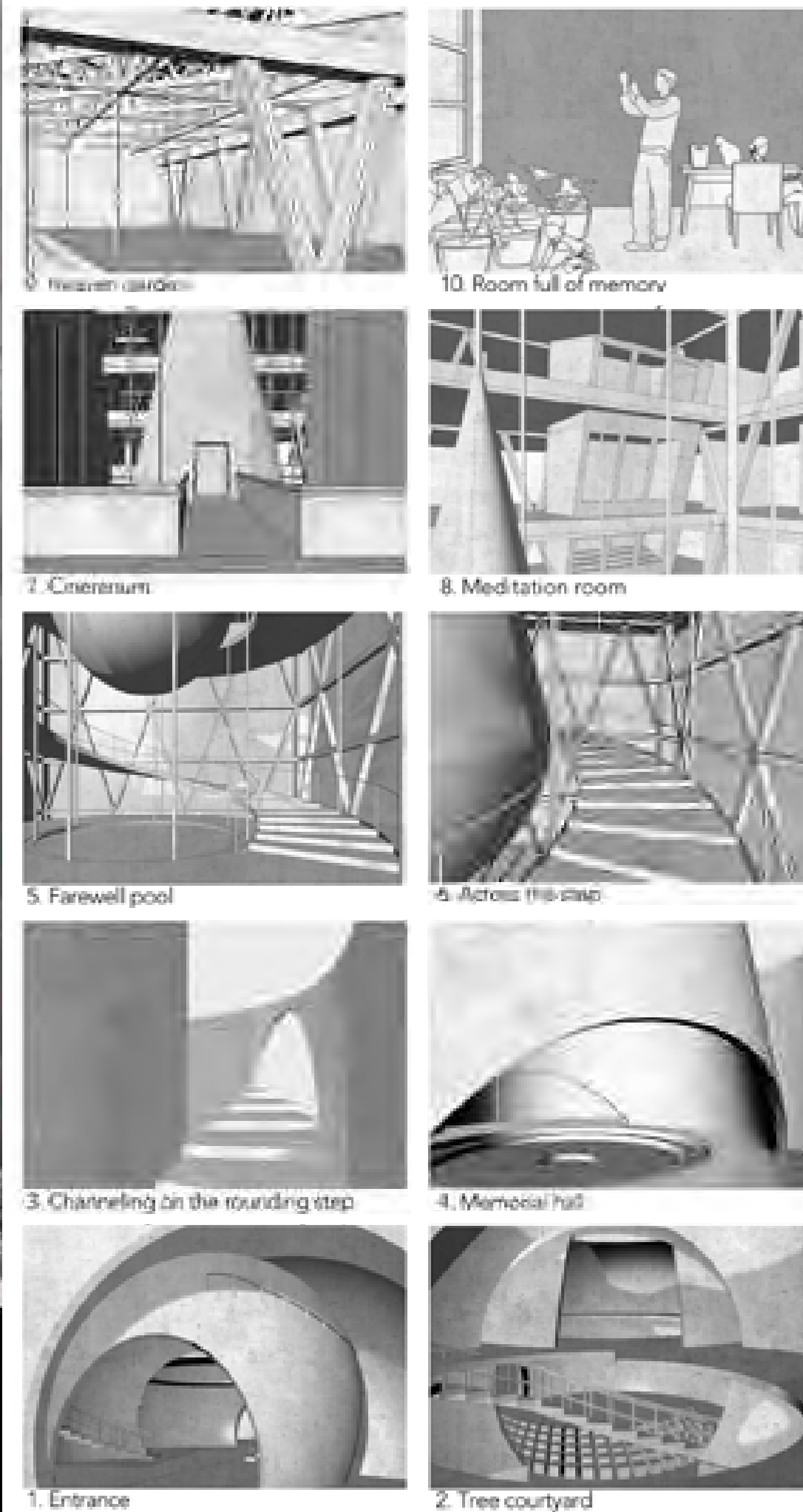
The outer part of the architecture links with the city and works as a memory storage space. Every detail of the past is reminding the living that their loved ones never leave and that they always live in their memories. The core of the architecture is a ritual space with strong spiritual implication.

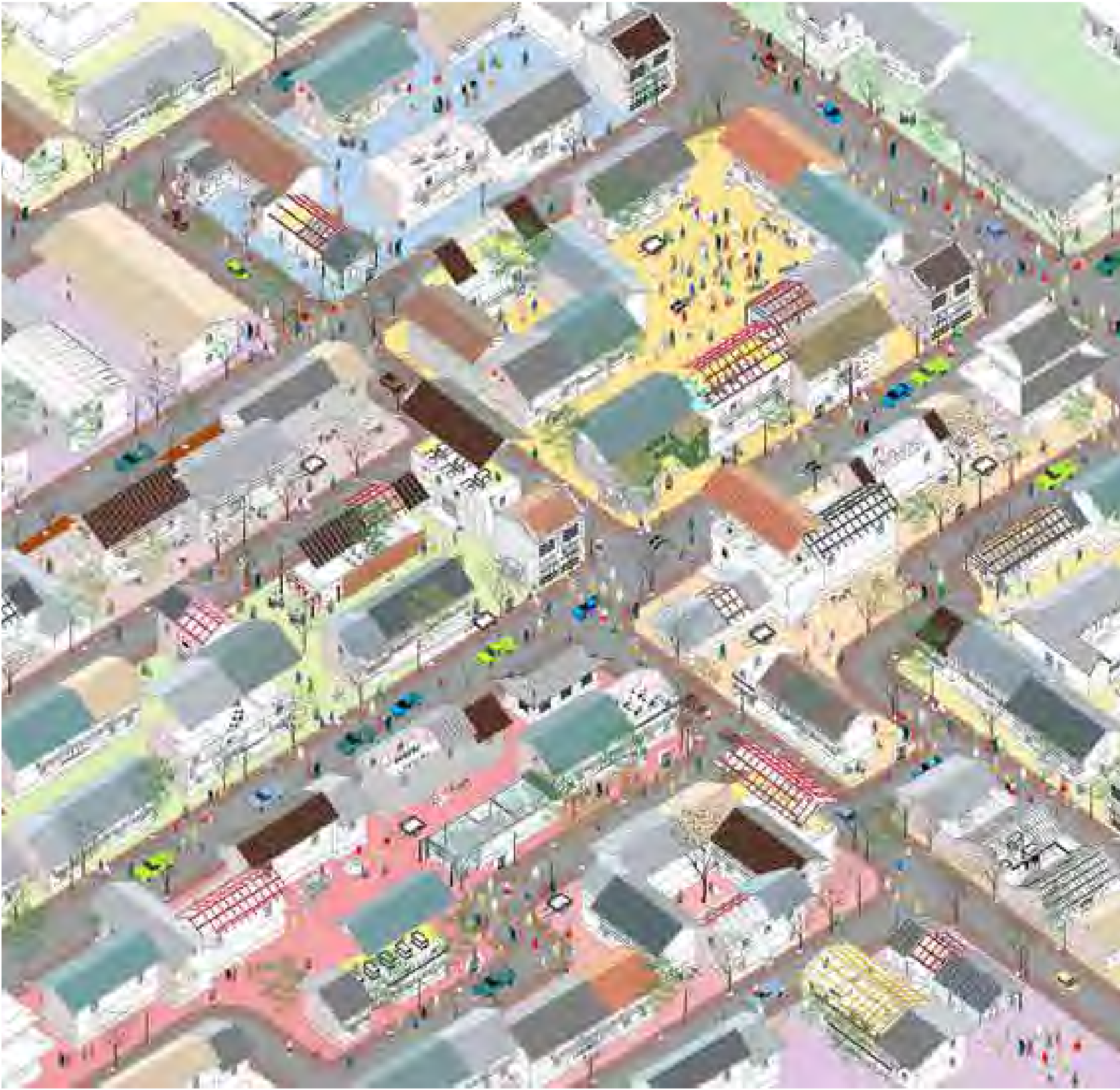
SITE PLAN





ROUTE





02. HERITAGE ART VILLAGE INNOVATION

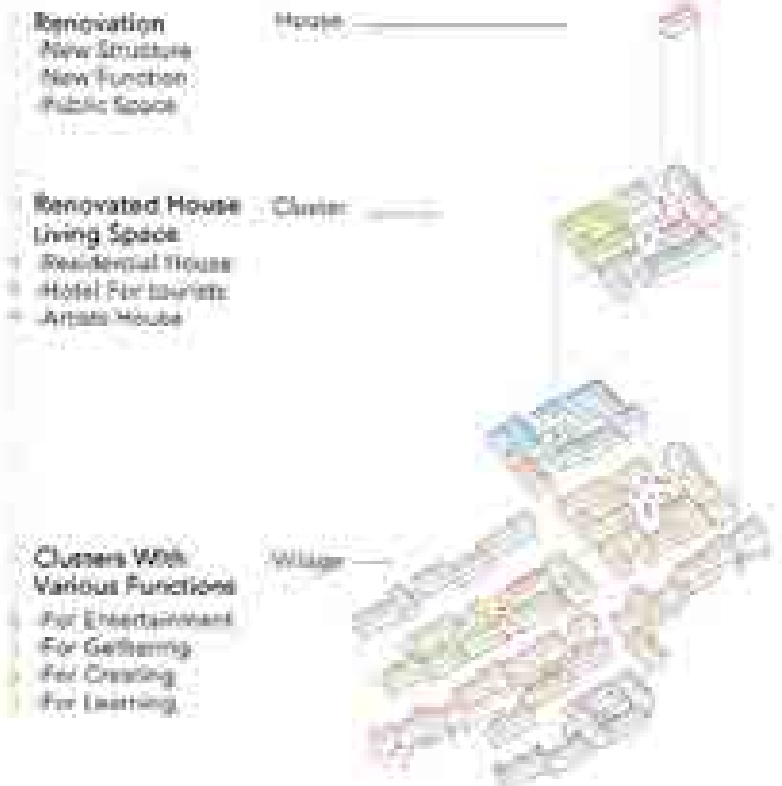
LOCATION: SHANXI, CHINA
INDIVIDUAL WORK

Lost craft, ruined houses and population outflow are threatening the old Peng village. The project defines a new industry and a new function for the village crafts revival. It proposes planning and architecture renewal strategies so that the village develops efficiently without spoiling its culture.

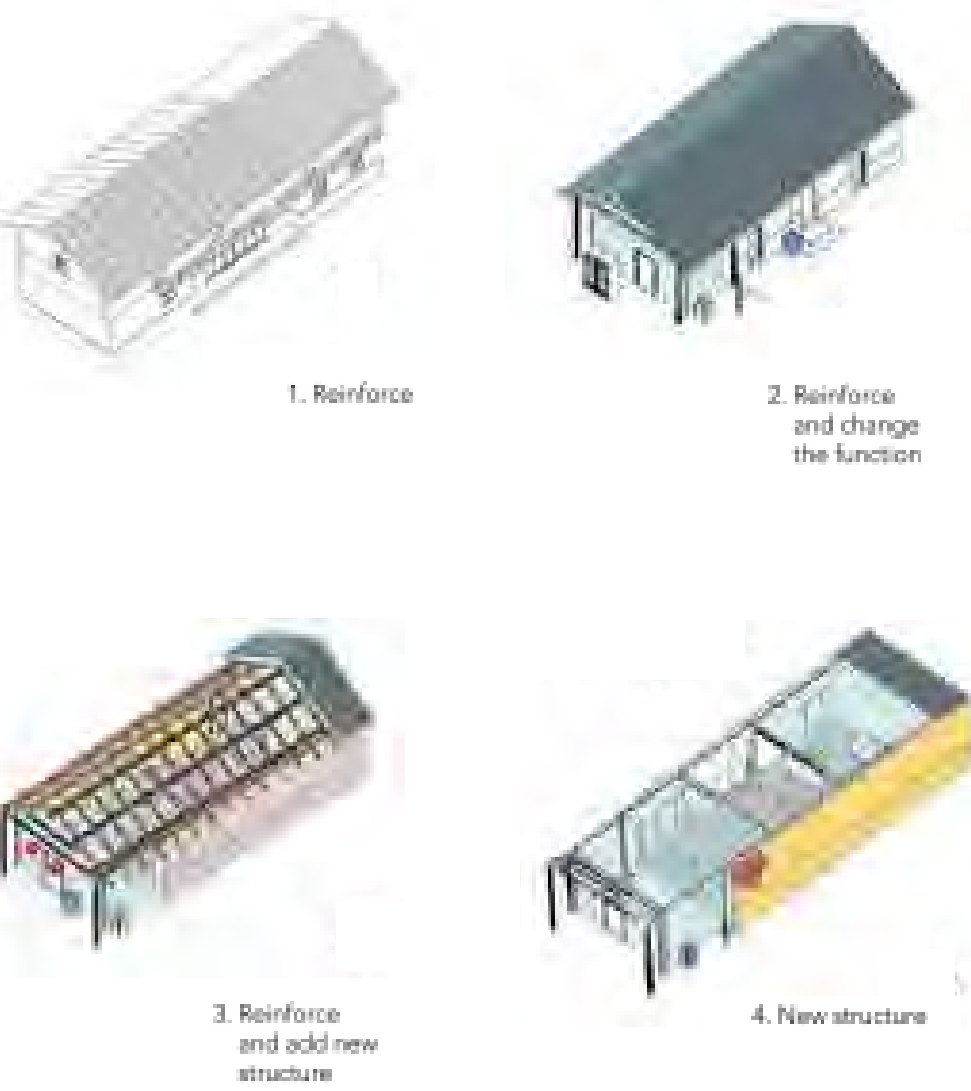
HOW TO ACTIVATE THE VILLAGE



HIERARCHICAL PLANNING STRUCTURE



BUILDING RENOVATION STRATEGY



RENOVATION STEP

1. Retaining the old trees

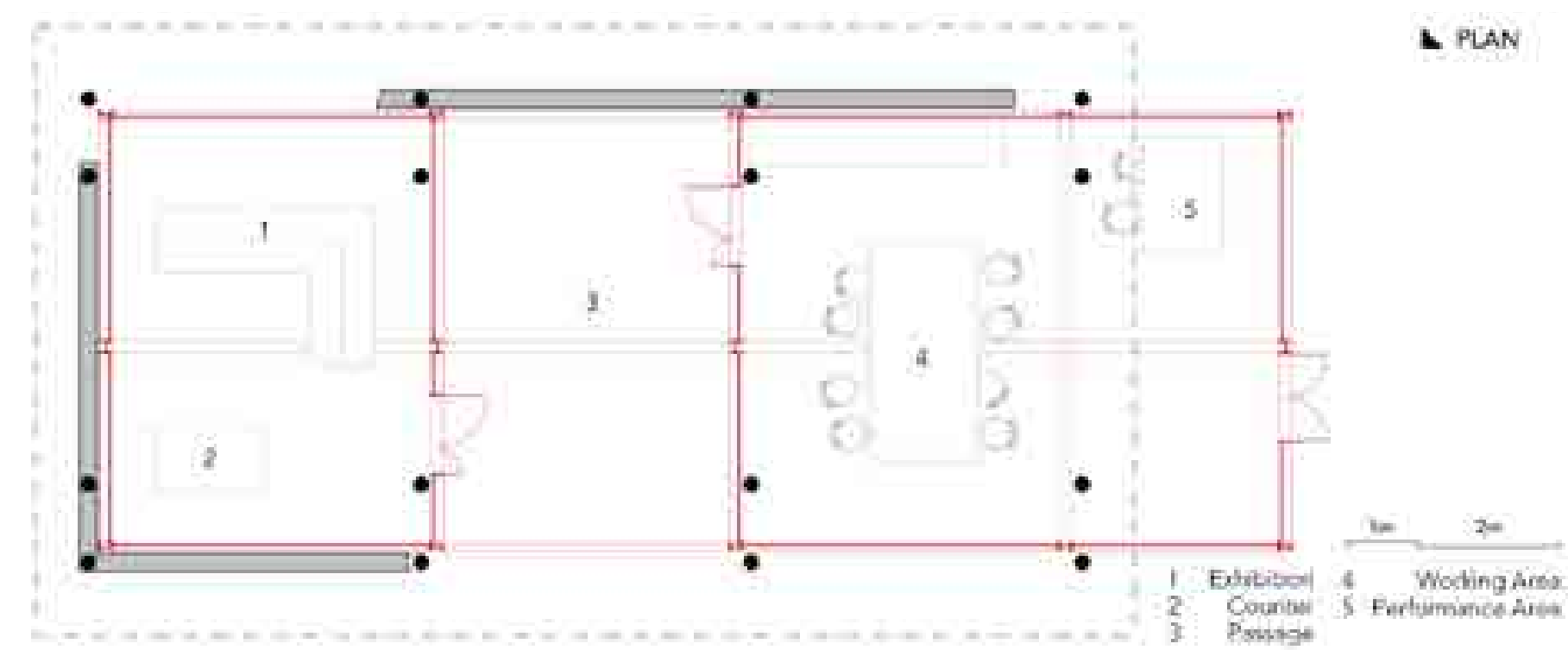
2. Buildings quality assessment

3. Original road

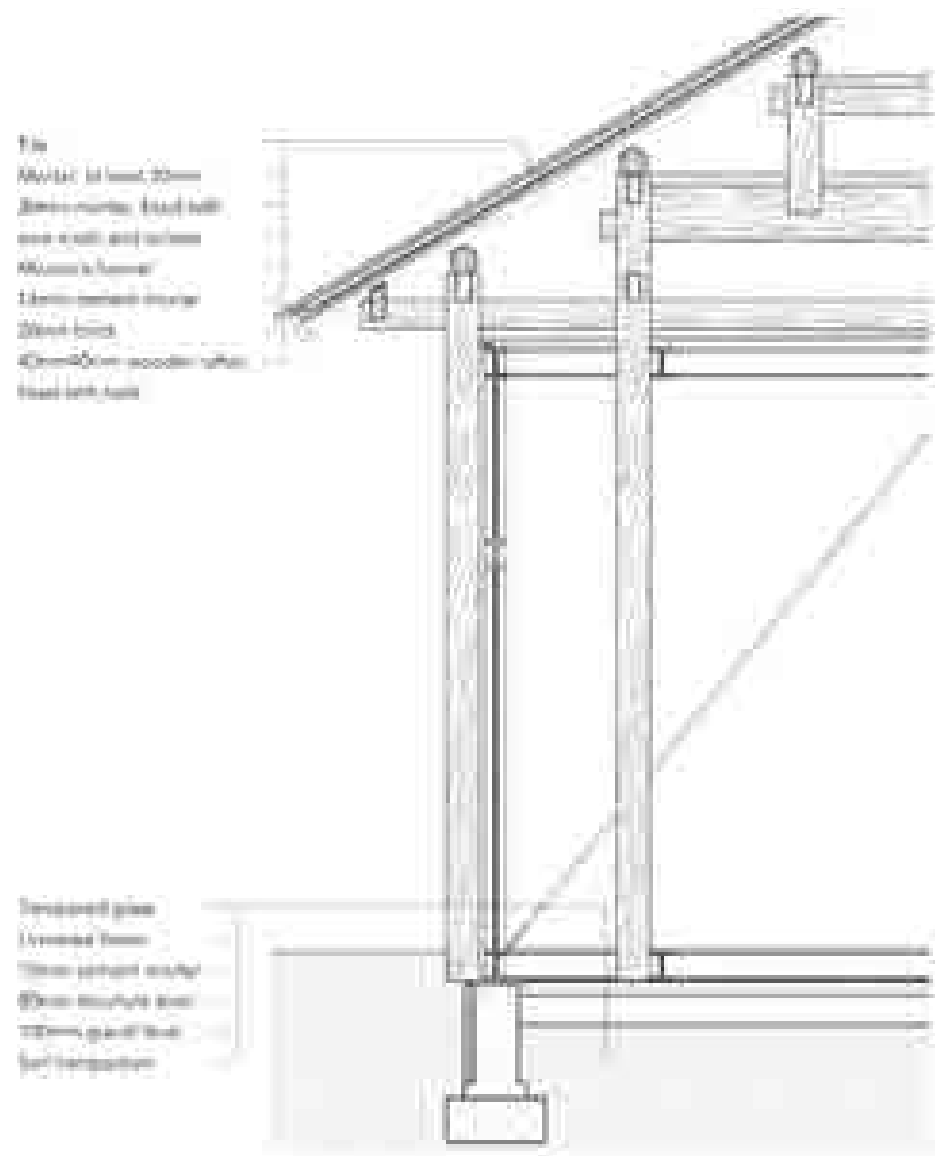
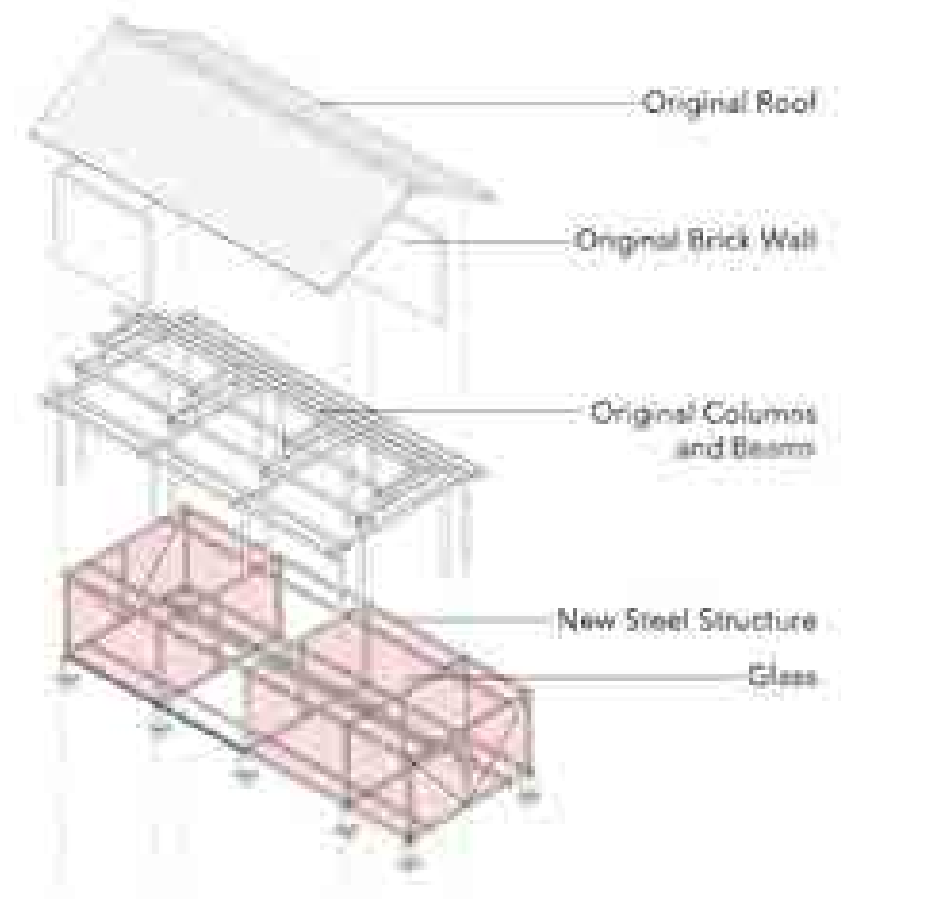


RENOVATION METHOD A

For the relatively badly damaged residential house, retain the original structure as much as possible and insert steel support structure. Take the forge workshop as example.

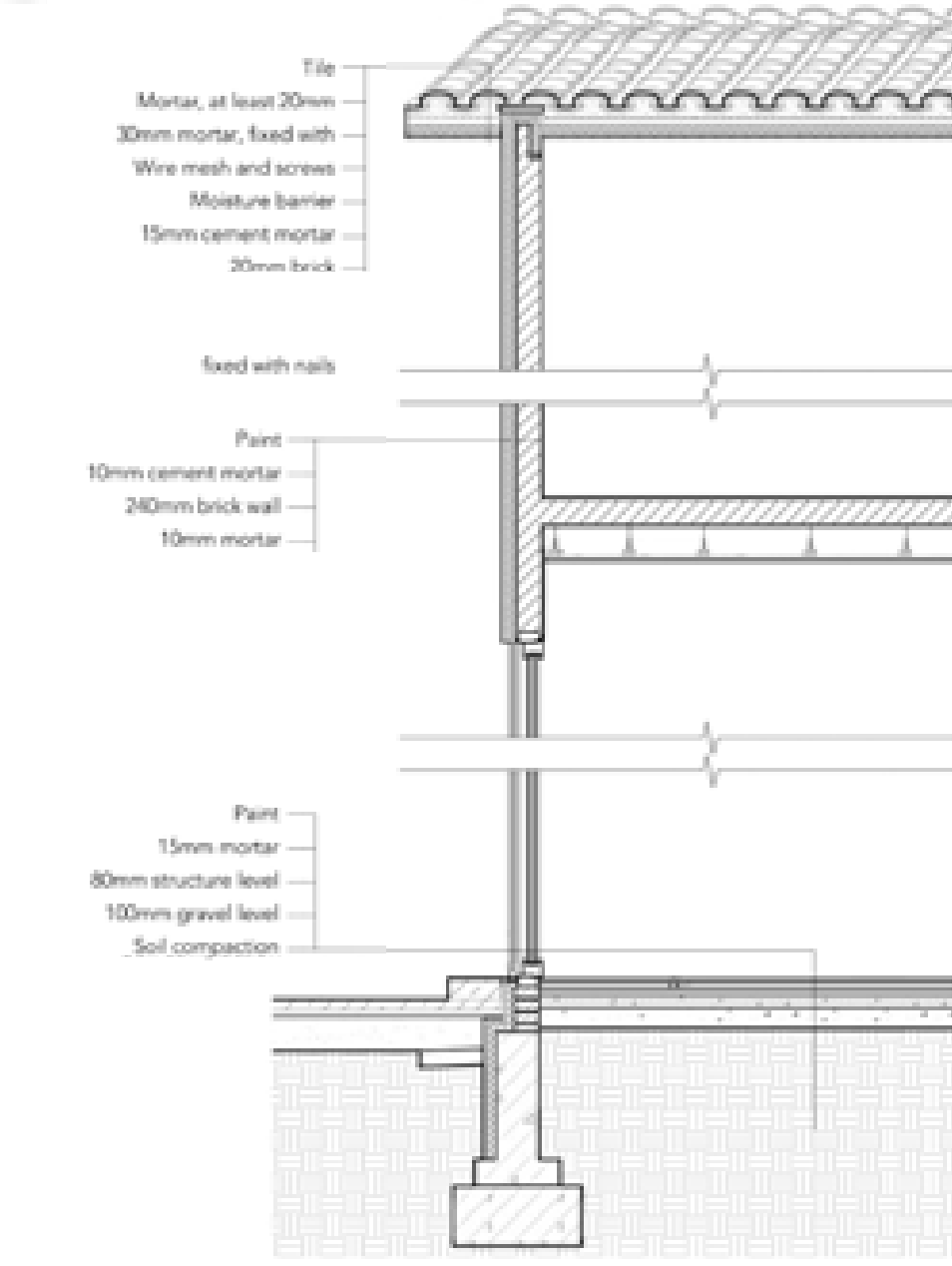


STRUCTURE



RENOVATION METHOD B

For the slightly damaged residential houses, repair the original structure and endow new functions to the architecture. Take the exhibition center and homestay as example.





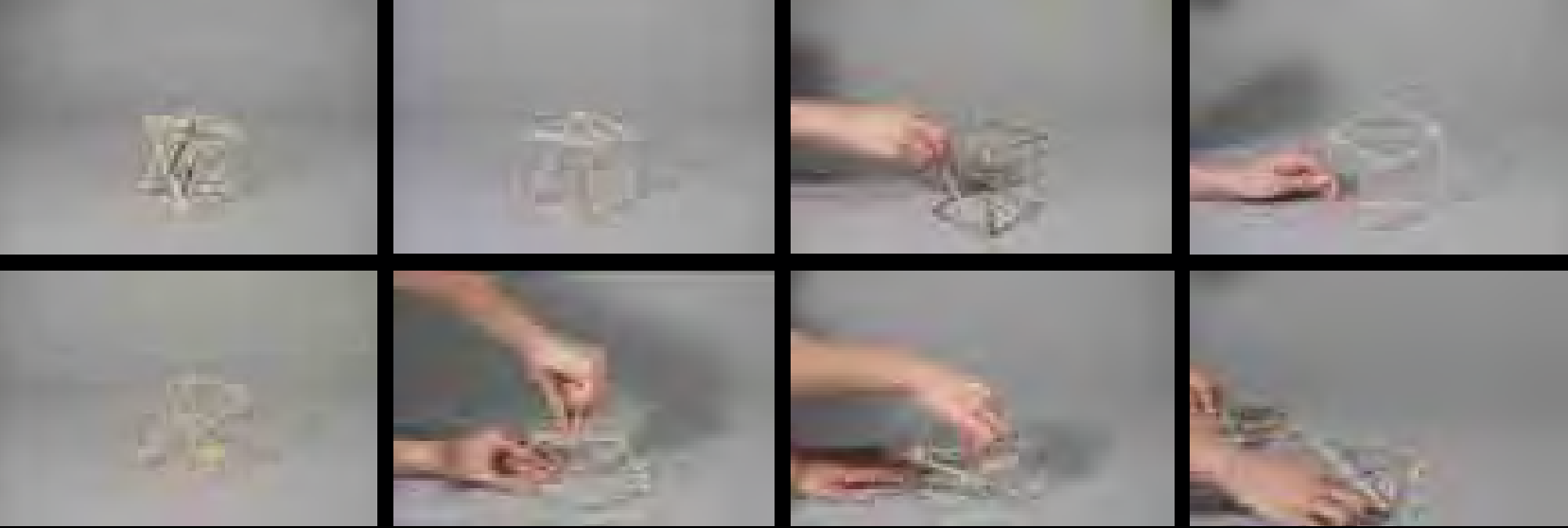
03. **AMPHIBISCO**
UABAN WATERWAY INFRATRUCTURE
AQUA-BORN TILED SYSTEM OF ADAPTIVE ROBOTS
THESIS PROJECT IN AA SCHOOL DRL
TEAMWORK

The project Amphibisco is aimed to bring back water as an active medium of transportation, and more importantly, bring this layer of urban fabric back to not only the city to city transportation but also to the city dwellers' day to day life. Water by itself is a particle system. And the only way to activate water is to do nothing static but as adaptable as possible. Hence Amphibisco decided to use a high population scheme, where we can deploy units from the arteries to the targeting points in the most efficient matter, with the least disturbance to the rest of the structure. Furthermore, by working with water, any non-transformable objects will become a solid barrier that gets hit around by the currents. Thus we design our units along with the fluid dynamics for it to be transformable and behaviorally-sound for floating, swimming, connecting, load-bearing and constructing.

With the relative events happening around the world recently, we strongly believe that it's necessary to design architecture that can adapt to changes, an aqua-born tiled system of adaptive robots, as our new urban infrastructure of the waterway.

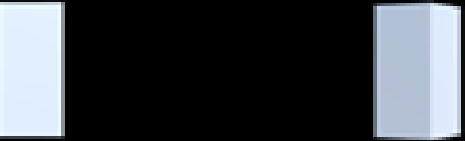
UNIT AND CONNECTION

Framing Test



Different frames give the geometry different deformation capability and different structure. By researching a series of frame method, one cube frame is hard to achieve both solid structure and flexibility. Hence two-cube-frame is taken into consideration.

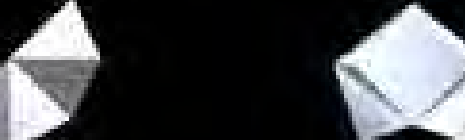
Unit State 1



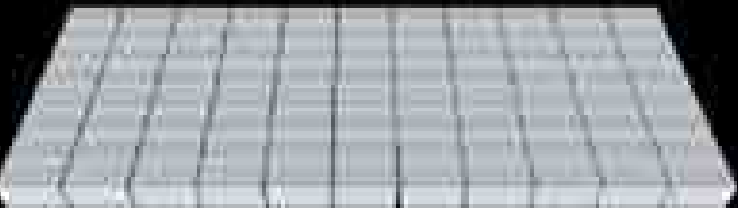
Unit State 2



Unit State 3

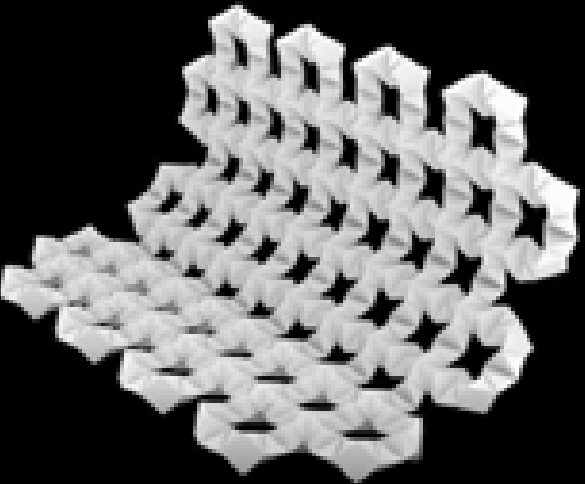


Unit States Flow Test



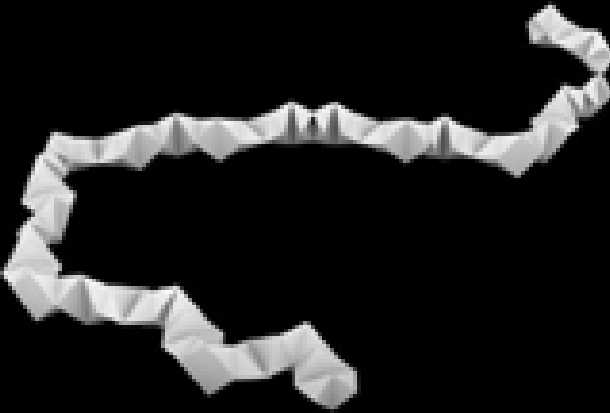
Grid1 Fully Packing Grid

Retangular state
Fully packed



Grid2 Orthogonal Grid

8 units components
2-dimensional flexibility
50% porosity



Grid3 Linear Grid

Linear connection
3-dimensional flexibility

ACTIVE RECONFIGURATION

With more people in the space and the occupy duration getting higher, more of the units folds their hinge to make the structure become more rigid and resist the real-time changes, as a result the surface become a long lasting 2.5D landscape.



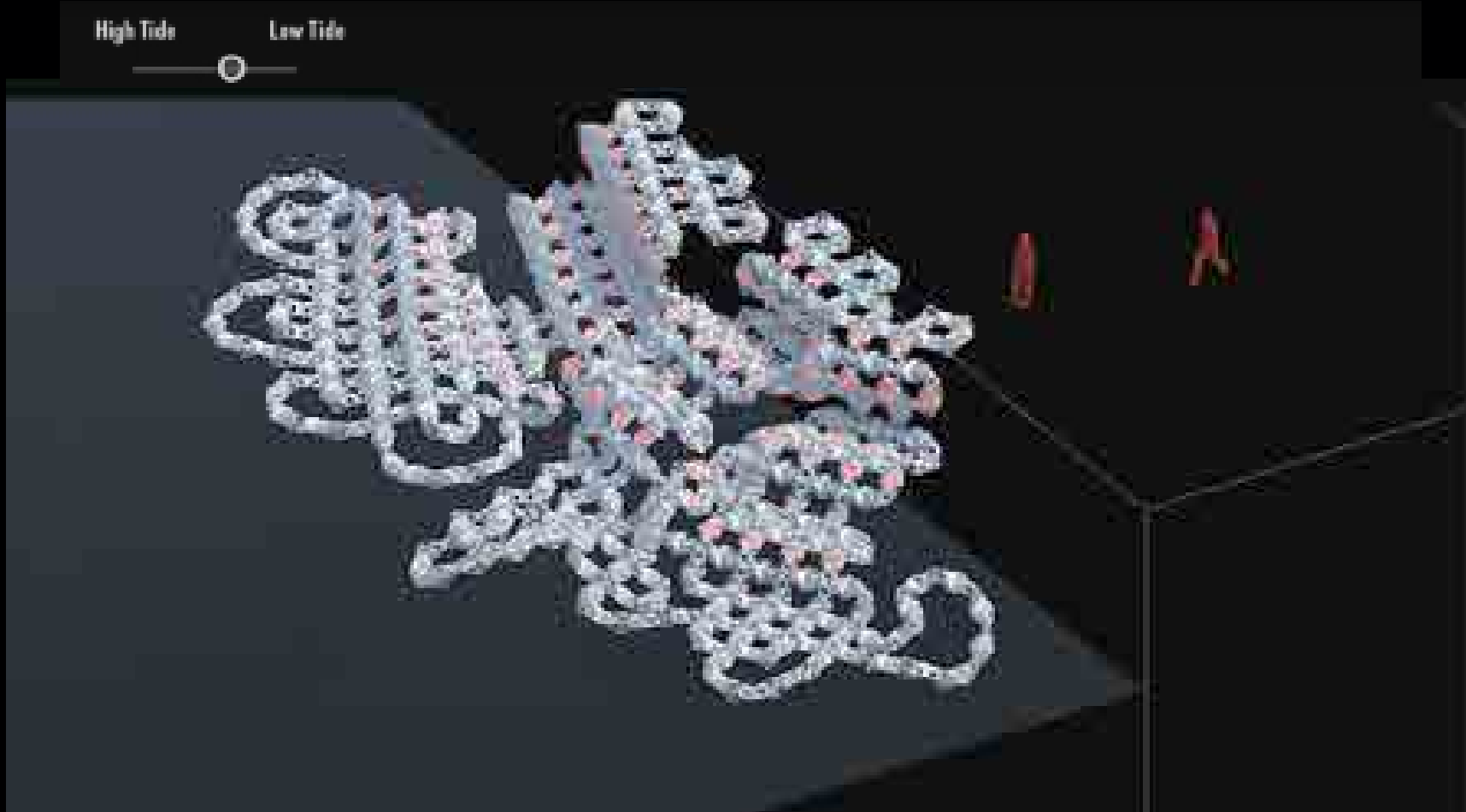
INHABITABLE RECONFIGURATION



By sensing the human weights and pass information in between, units pack to form an adaptive inhabitable space in a real time.

PASSIVE RECONFIGURATION

When time goes from high tide to low tide, the surface passively fold to build the bank section to make the pier accessible.



SCENARIO ON THE THAMES





04. THE TRANQUILITY CAMPING EQUIPMENT

LOCATION: GUIZHOU, CHINA
EXCELLENT AWARD
Louna International Academic Construction Competition
TEAMWORK

This project is a camping equipment built in a bamboo forest with bamboos. In this project, traditional dwellings elements in Guizhou Province and natural elements are mixed together. This camping equipment aims to provide visitors a tranquil shelter to live and meditate.

SECTION

