

# PORTFOLIO

**HUANG ZHIYUN, WENDY**  
2008~2019

*D Y Architects*  
MS(AAD) COLUMBIA UNIVERSITY  
*Leigh & Orange Architects*  
MArch HKU  
*Rural Urban Framework (RUF)*  
BA(ArchStud) HKU



2007.09~2008.07  
Tsing Hua University  
Preparatory Year

2008.09~2011.06  
The University of Hong Kong  
BA(Arch Stud)

2010.06~2010.08  
SAKO Architects  
Internship

2011.08~2012.08  
Rural Urban Framework  
RA / Designer

2012.09~2014.06  
The University of Hong Kong  
Master of Architecture

2014.08~2015.11  
Leigh & Orange Architects Ltd.  
Assistant Architecture Designer

2016.05~2017.06  
Columbia University  
MS Advanced Architecture Design

2016.09~2017.07  
DY Architects LLC.  
Architecture Designer

2018.08~Present  
Leigh & Orange Architects Ltd.  
Assistant Architecture Designer

2007

2008

2010

2011

2012

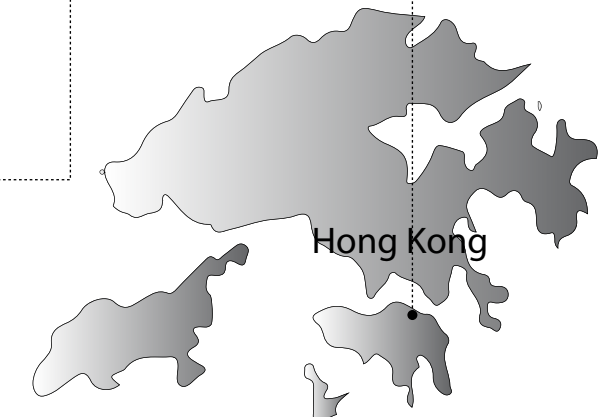
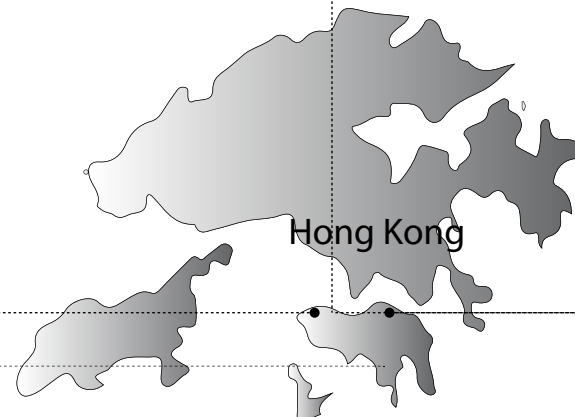
2014

2016

2017

2018

2019



# Zhiyun Wendy HUANG 黄稚芸

## INFO

✉ z.huang@columbia.edu  
📞 +86 15546938925  
📍 China  
📍 Flat 5F, 5/F, Coronet Court,  
321-333 King's Rd, North Point, HK  
🔗 <https://wzyhuang.wixsite.com/website>

I am a creative, hard working and self-motivated architectural designer, with totally seven years of professional architectural design training, and four years of working experience. I hope to improve people's living condition and urban issues through creative design and the combination of technology.

## SKILLS

- Rhino
- Grasshopper
- Auto CAD
- Sketch up
- V-Ray
  
- Photoshop
- Illustrator
- Indesign
- After Effect
- Premiere
  
- Revit
- 3ds Max
- Ecotect
- Maxwell
- MS Office

## LANGUAGES

- Mandarin
- English
- Cantonese

## EDUCATION

- Columbia University** **New York**  
Master of Science in Advanced Architectural Design  
05/2016~05/2017
- The University of Hong Kong** **Hong Kong**  
Master of Architecture  
09/2012~06/2014
- The University of Hong Kong** **Hong Kong**  
Bachelor of Arts in Architecture Studies  
09/2008~06/2011
- Tsinghua University** **Beijing**  
Preparatory Major in Architecture  
09/2007~07/2008

## EXPERIENCE

- Leigh & Orange Architects Ltd** **Hong Kong**  
Assistant Project Designer  
08/2018~Present
- Worked on Beijing & Shanghai K11 concept and schematic design projects and several design competitions
  - Worked on competition and schematic design presentation package, as well as 3d modeling and CAD drawings.
- D Y Architects, LLC** **New York**  
Architectural Designer  
09/2017~07/2018
- Worked on several private residential projects. Including new construction, conservation, addition & alteration for single family residences.
  - Involved in most design stages, including schematic design, design development, construction drawing and construction management.
- Leigh & Orange Architects Ltd** **Hong Kong**  
Assistant Project Designer  
08/2014~10/2015
- Worked on Shenzhen Qianhai Time Square Commercial Complex Project
  - Involved in schematic design and design development phases. Worked on schematic design presentation package including 3d modeling, diagram making, communication with local consultants.
- Rural Urban Framework (RUF)** **Hong Kong**  
Research Assistant/ Designer  
08/2011~07/2012  
06/2009~08/2009
- Involved in "House for All Seasons" Shijia Village House Prototype Project, Jintai Village Post- Earthquake Reconstruction, Angdong Charitable Town Hospital, Ankang Village Bridge Project
  - As core design team member, got involved in conceptual and schematic design phases. Generating design options, preparing presentation package, 3d modeling and physical model making.
  - 2012 Winner, "House for All seasons" AR House Award, *Architecture Review*, UK
  - 2012 2nd Place, "House for All seasons" Project of the Year, European Union and Architecture of Israel
  - 2016 Shortlisted, "Angdong Hospital" RIBA International Prize, UK
- SAKO Keiichiro Architects** **Beijing**  
Summer Intern  
06/2010~08/2010
- Involved in Phoenix TV Studio Interior Design Project
  - Worked on 3D modeling, rendering and physical model making

## ACADEMIC

MS(AAD) COLUMBIA UNIVERSITY  
05.2016~06.2017

MArch HKU  
09.2012~06.2014

BA(ArchStud) HKU  
09.2008~06.2011

# 01

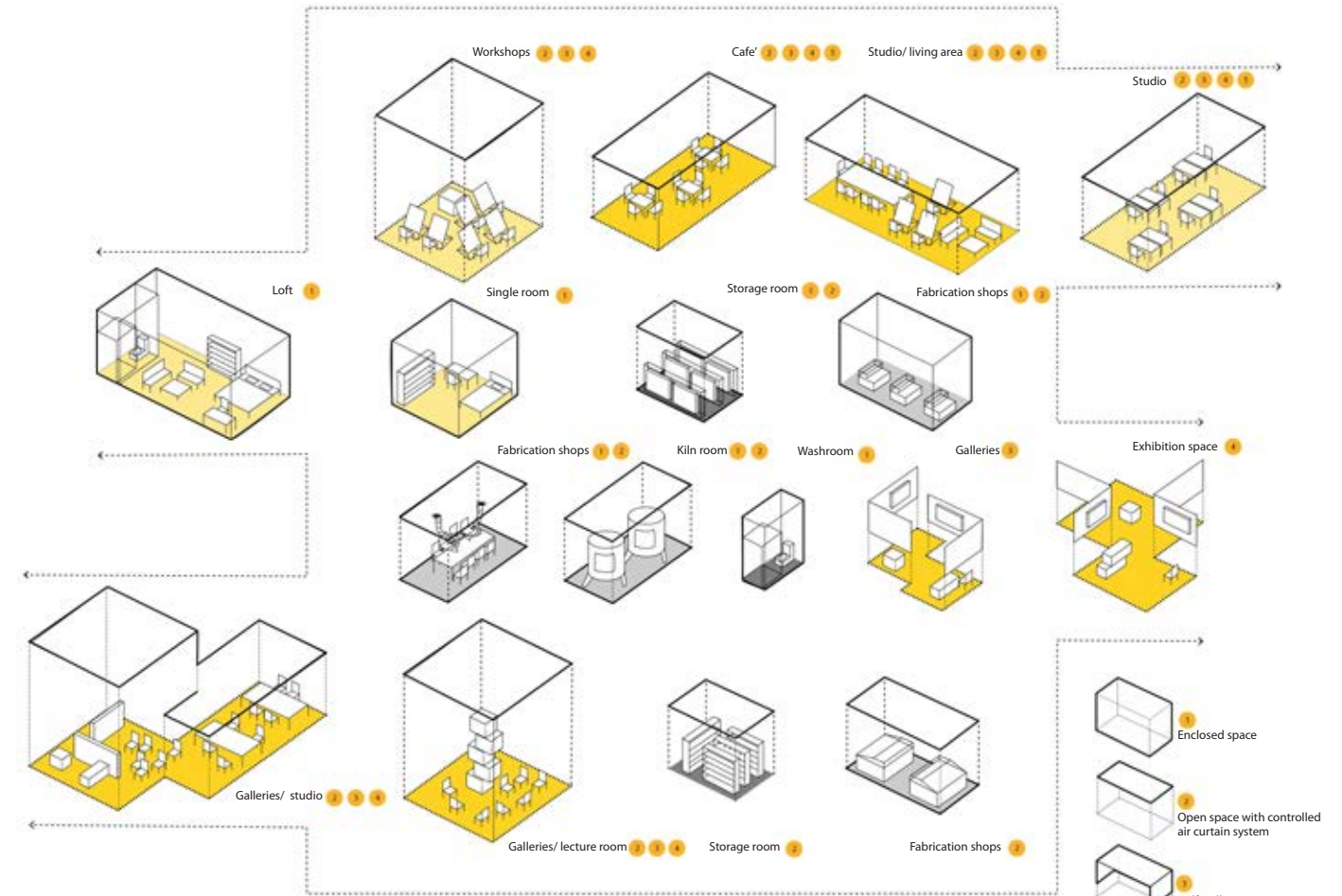
## Making the organized chaos of city life inside building

Re-thinking working space in NYC

Studio work  
Supervisor: Phu Hoang  
2016 Summer

As there are more and more participation in the art production process, for instance in Sainsbury, art market become global, the environmental requirements are more specific according to different art pieces, they open up the storage as exhibition space, allow public to participate in the workshop, introduce students/ educational institution to the art gallery space, the hybrid function of the space is increasing in today.

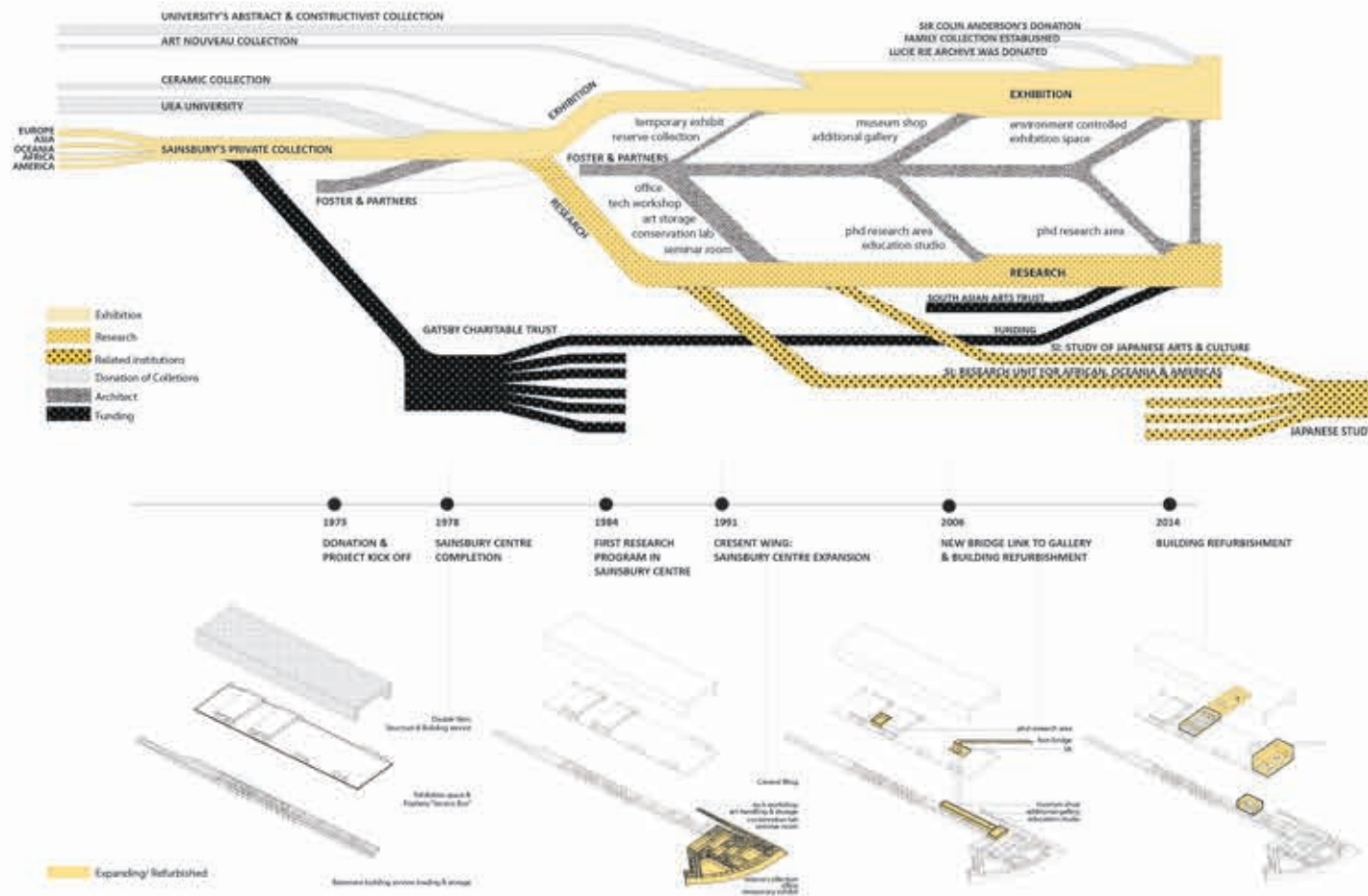
By question the definition of future workplace in art-related market, we start to redefine the function of art gallery space, the workplace in our design highlight the process of the production of the art instead of put more emphasis on production. In so doing, we encourage more interaction between artist and buyers/public. The future workplace is not an isolation factory to produce the art pieces, but a living exhibition cube for public to see and experience in different perspectives in art production process.



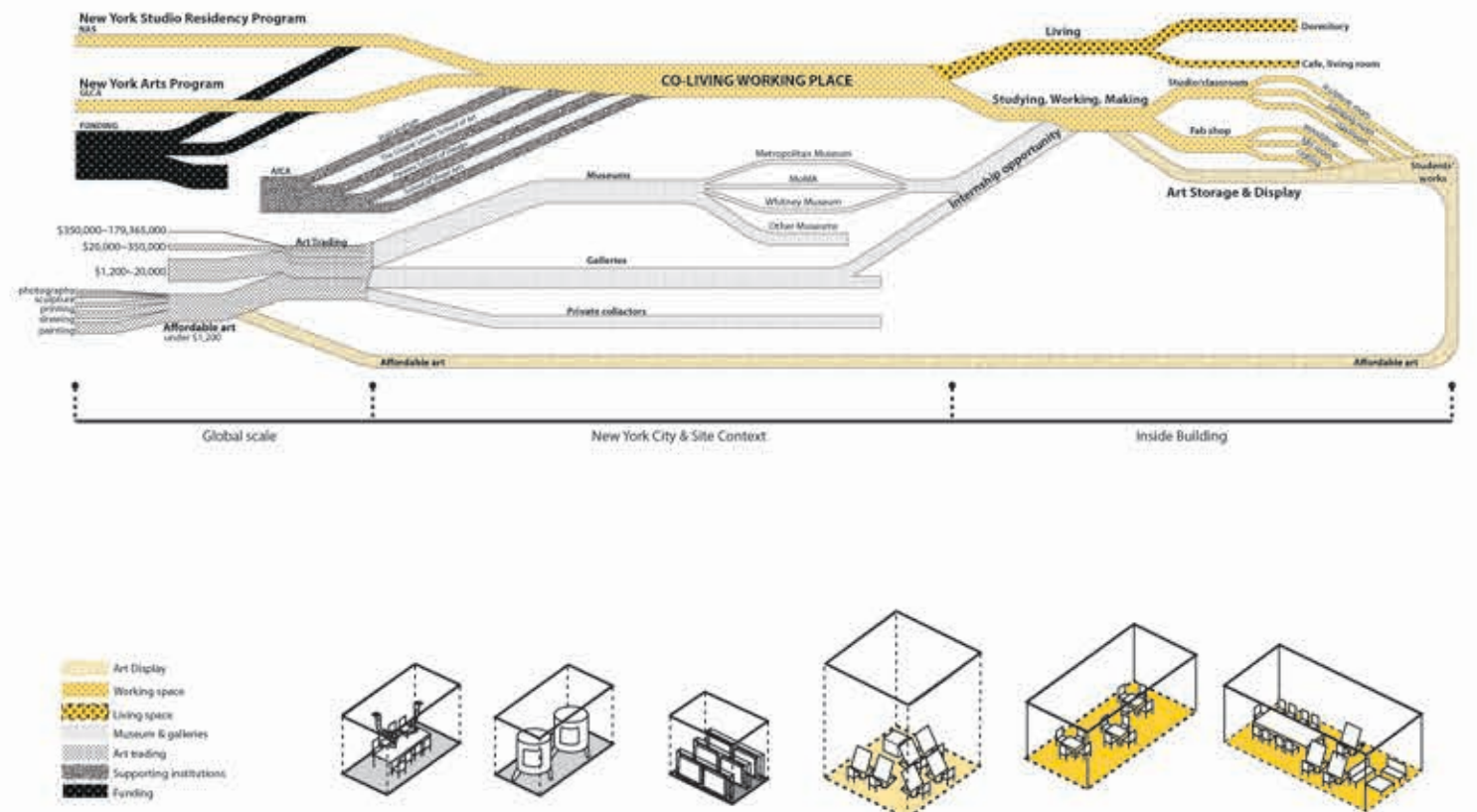
- Public / Exhibition space
- Semi-public
- Semi-private space/ workplace
- Private space/ room

### Timeline and Program Diagram of Sainsbury Visual Arts Centre

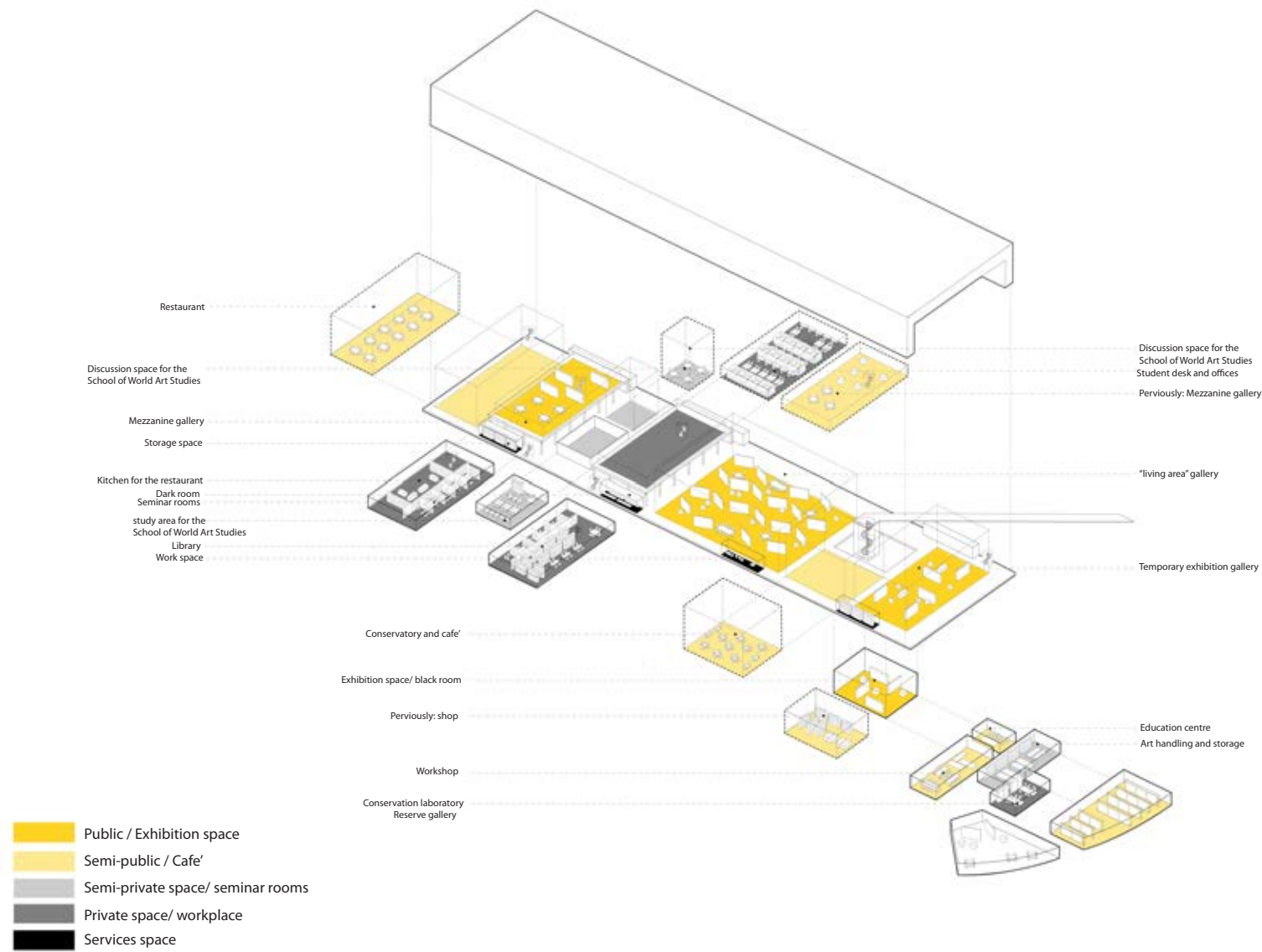
#### A BRIEF TIMELINE OF SAINSBURY CENTRE



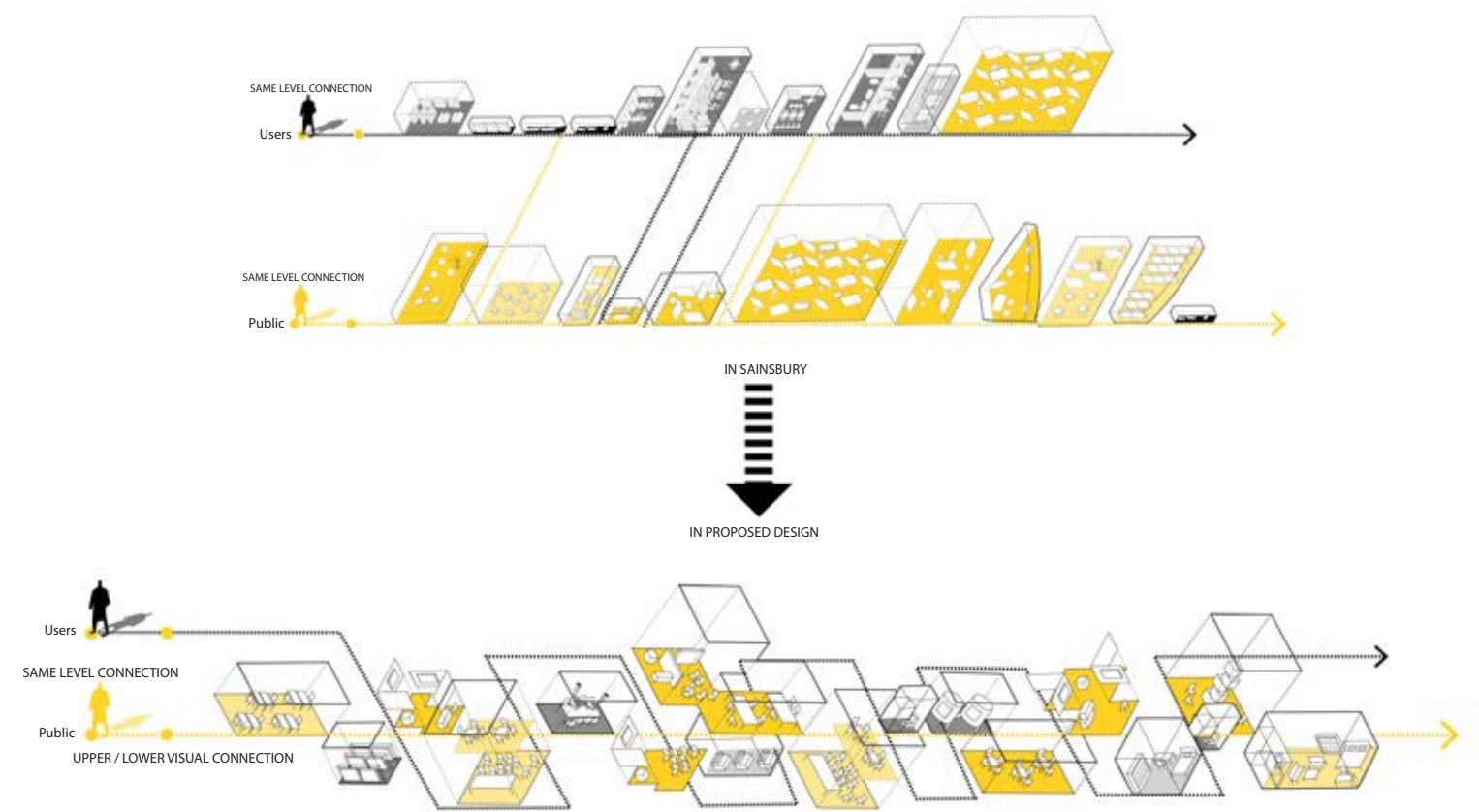
### Program Arrangement for the New Intervention



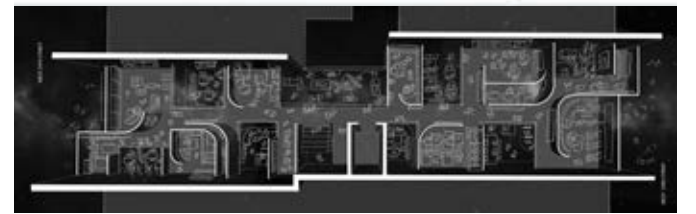
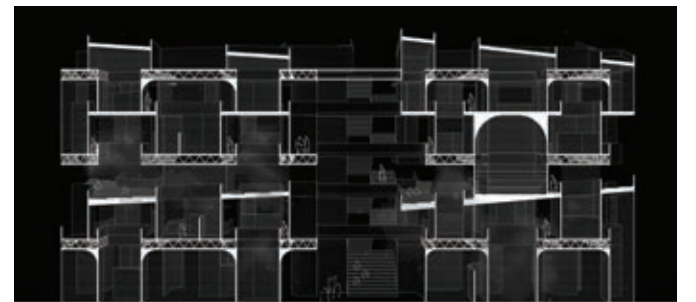
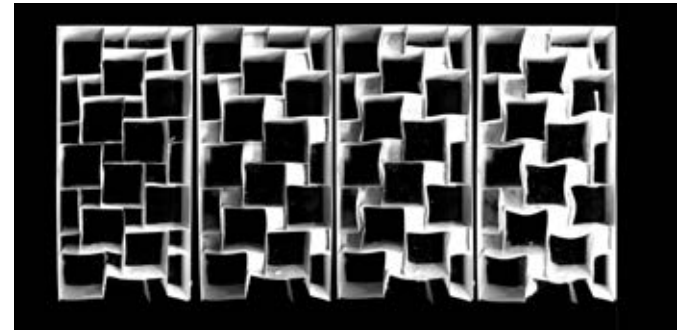
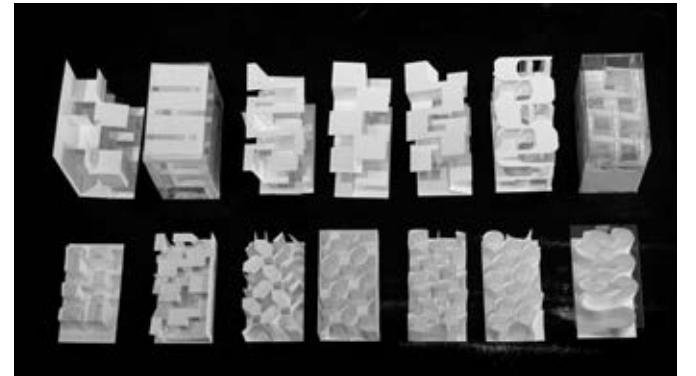
### Program Analysis of Sainsbury Institution

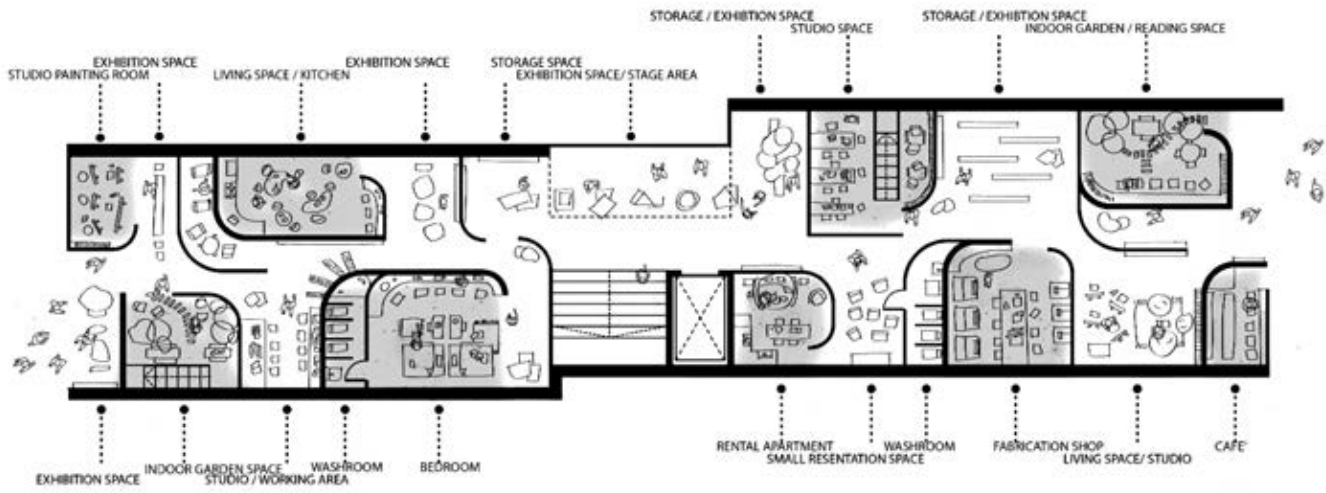


### Re-thinking the experience of art produce and exhibition space

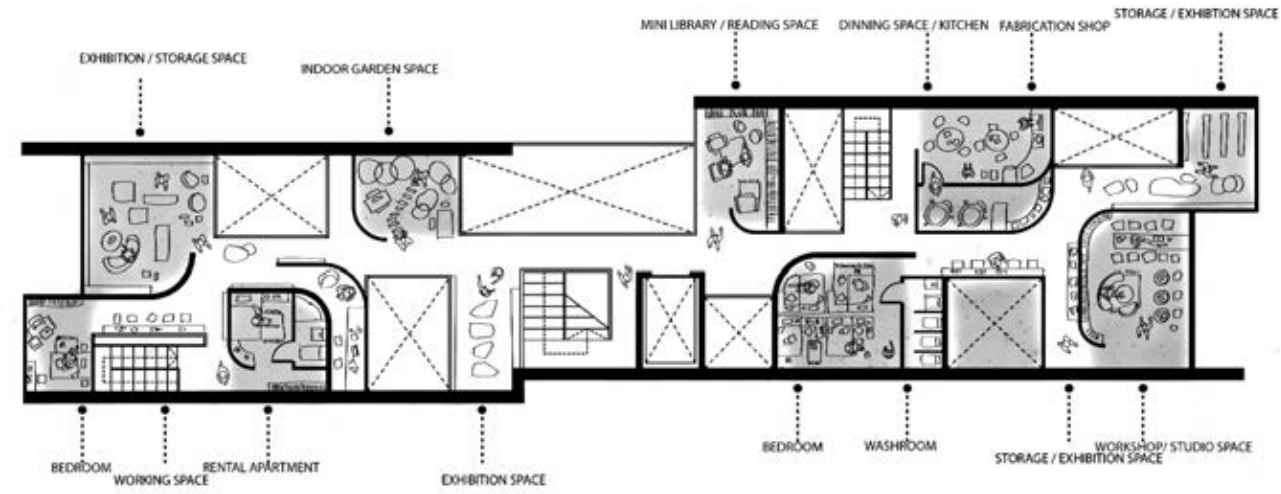


Sectional Model of the Architecture

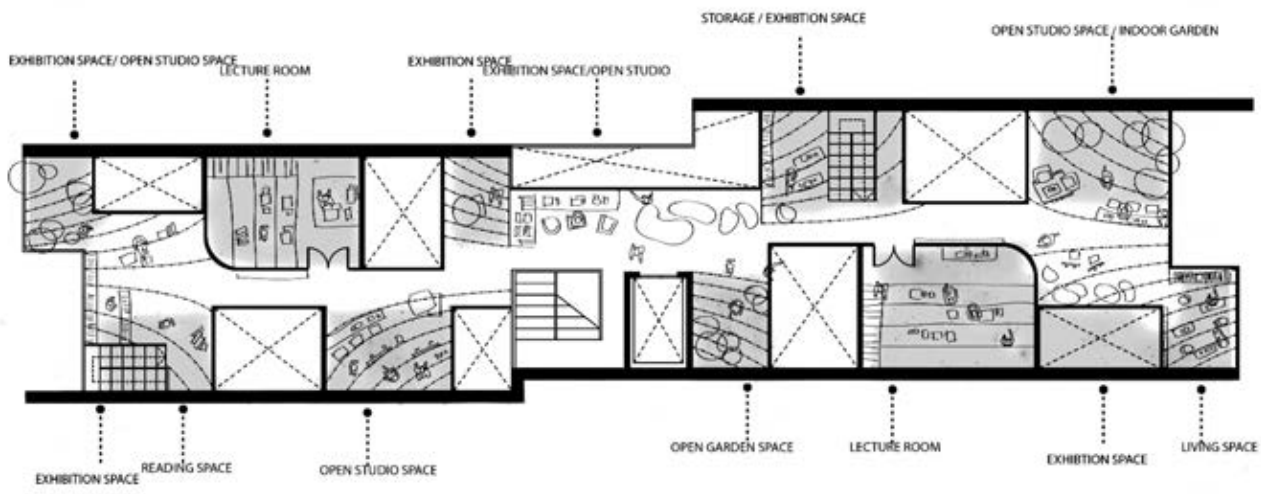




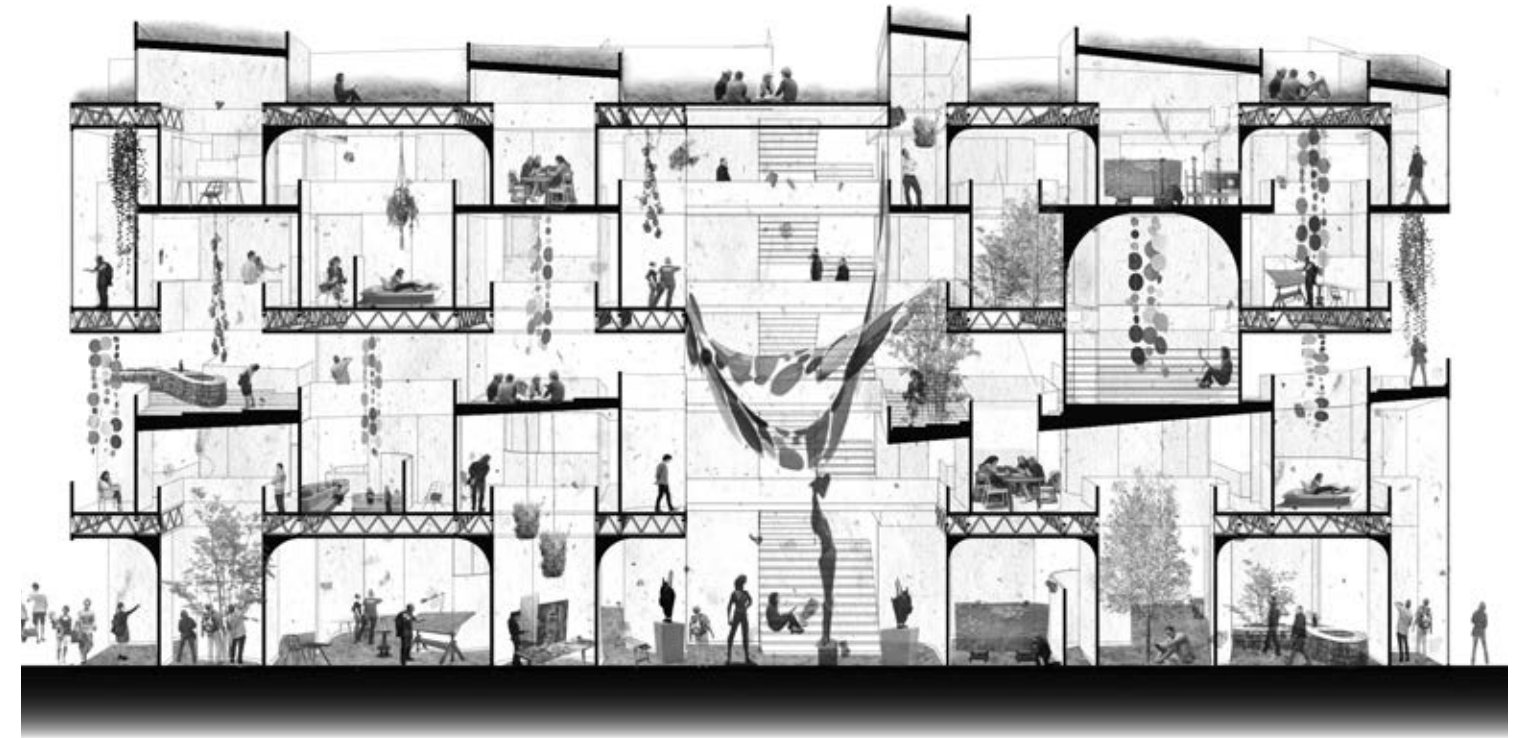
First Floor Plan



Second Floor Plan



Third Floor Plan



Section showing the alternate floor space



# 02

## Inventor Lab by the Sea

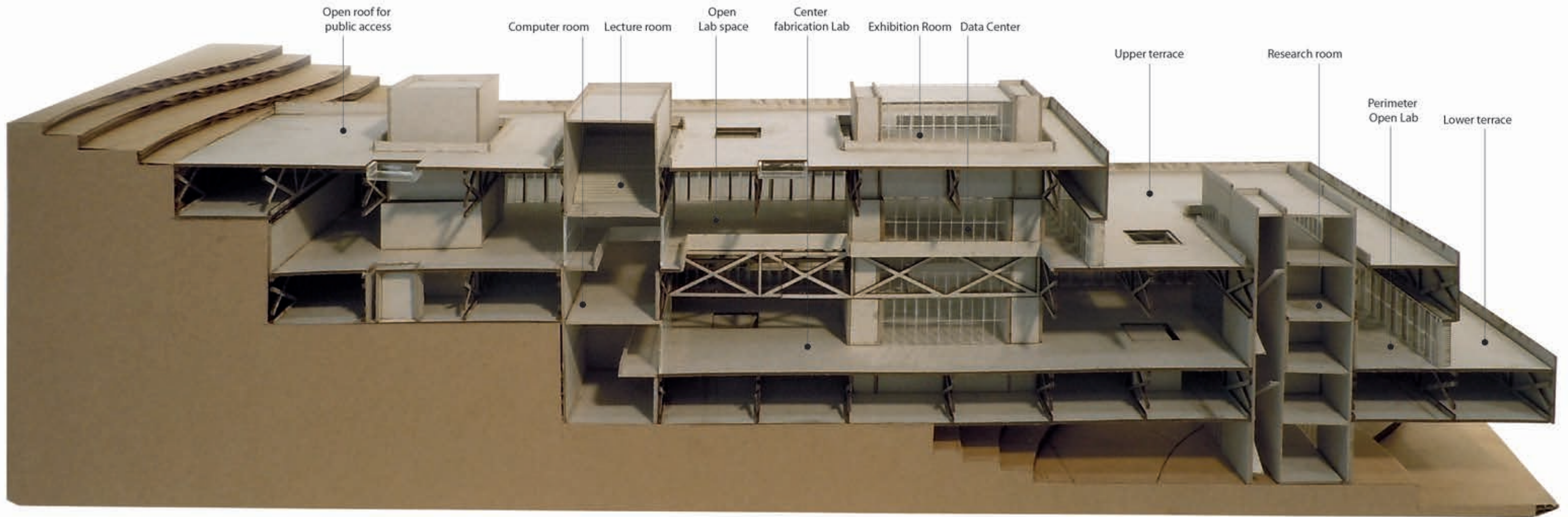
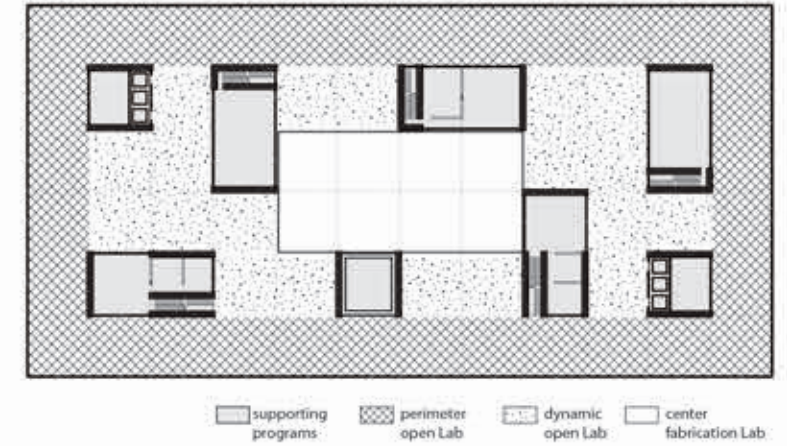
Studio work  
Supervisor: Peter de Bretteville  
2013 Fall  
The University of Hong Kong

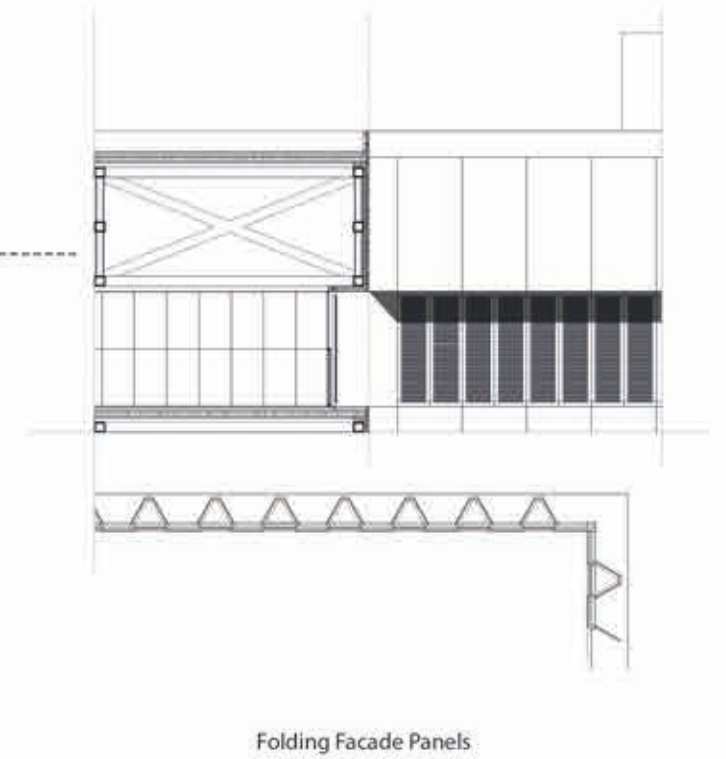
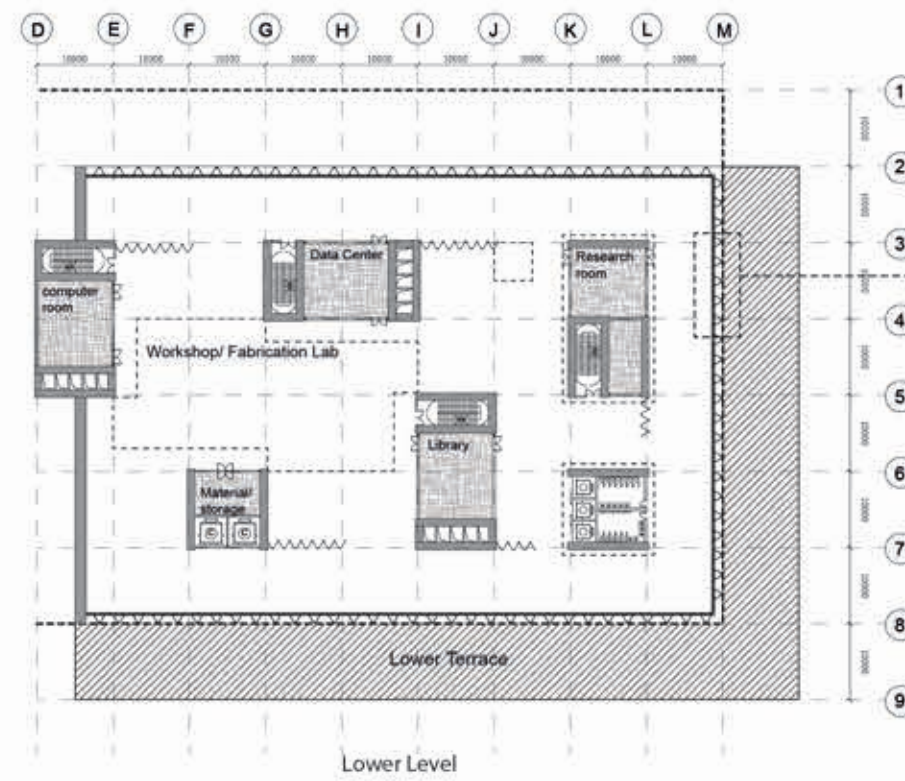
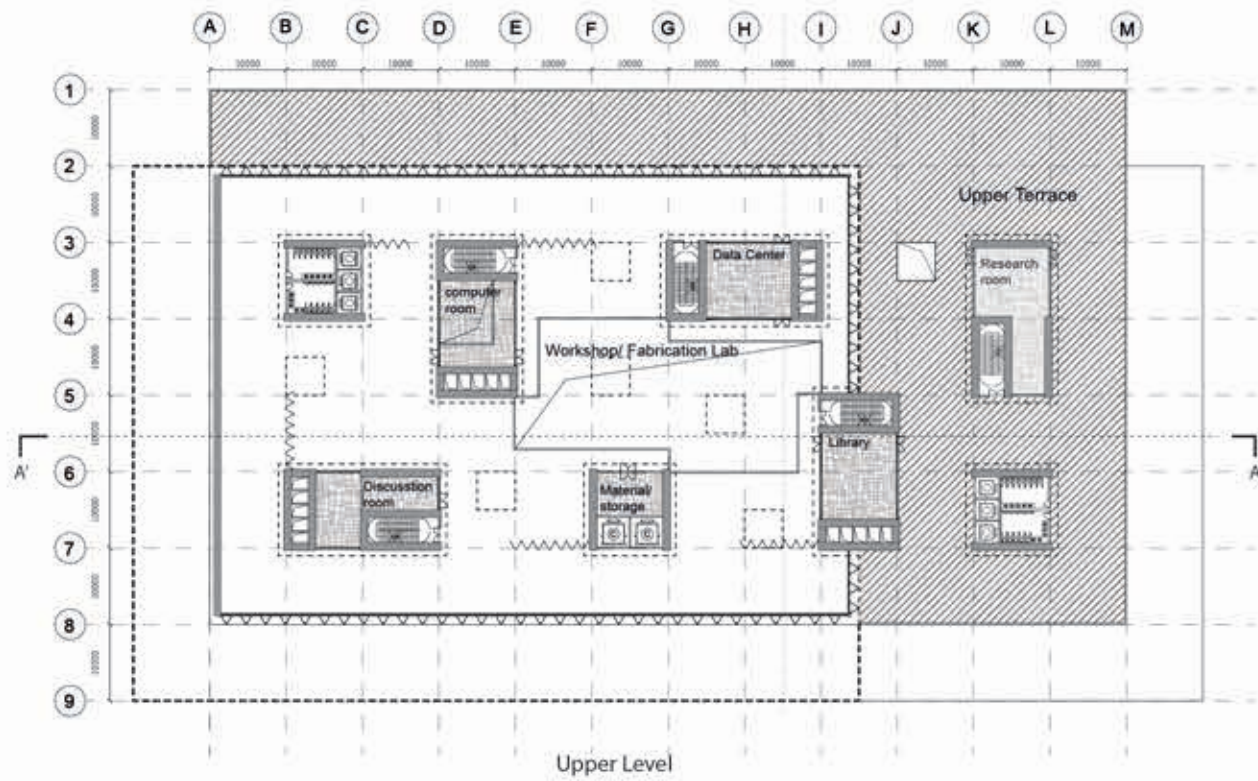
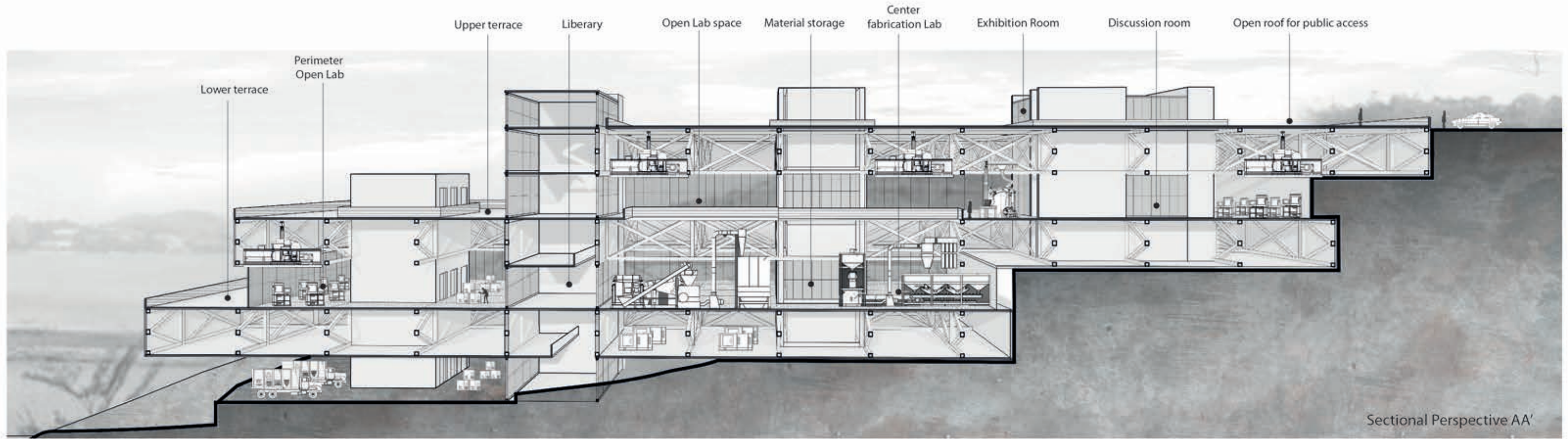
Inventor Lab is a prototype that will be tested by accommodating the program for an environmental research facility addressing the relationship and potential overlap of land and water in Hong Kong. What are the architectural implications of this program and new tools and will a new language emerge? One of the necessary conditions for the arrangement of laboratory is to develop a strategy which reponds to the need for non prescriptive spaces that facilitate reconfiguration. The inventor lab project is intended to encourage such collaborations. It is both a general model but by way of illustration of its capacity, it is also to be a specific research facility for environmental studies, global warming and its impact especially around Hong Kong.

----- Peter de Bretteville

The lab complex is located in the Shek O' quarry site, in-between a loop of the only vehicle road, so people can access from both the upper level and bottom level. Public and visitors can access the building from the roof platform, all the public programs like presentation room and exhibition rooms are at the top. The inventors would loop down the hill, park their cars on the open space under the elevated building and entry the building from the bottom level.

Three different types of lab space defined by "Penetrating cores"





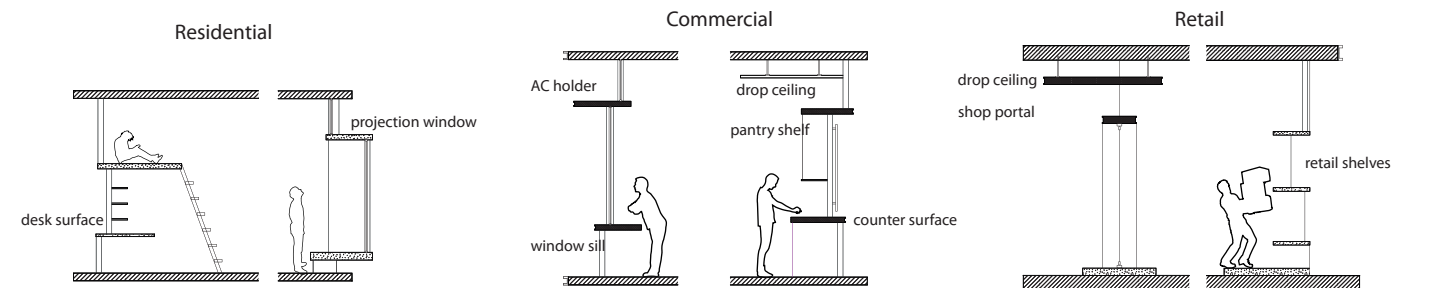
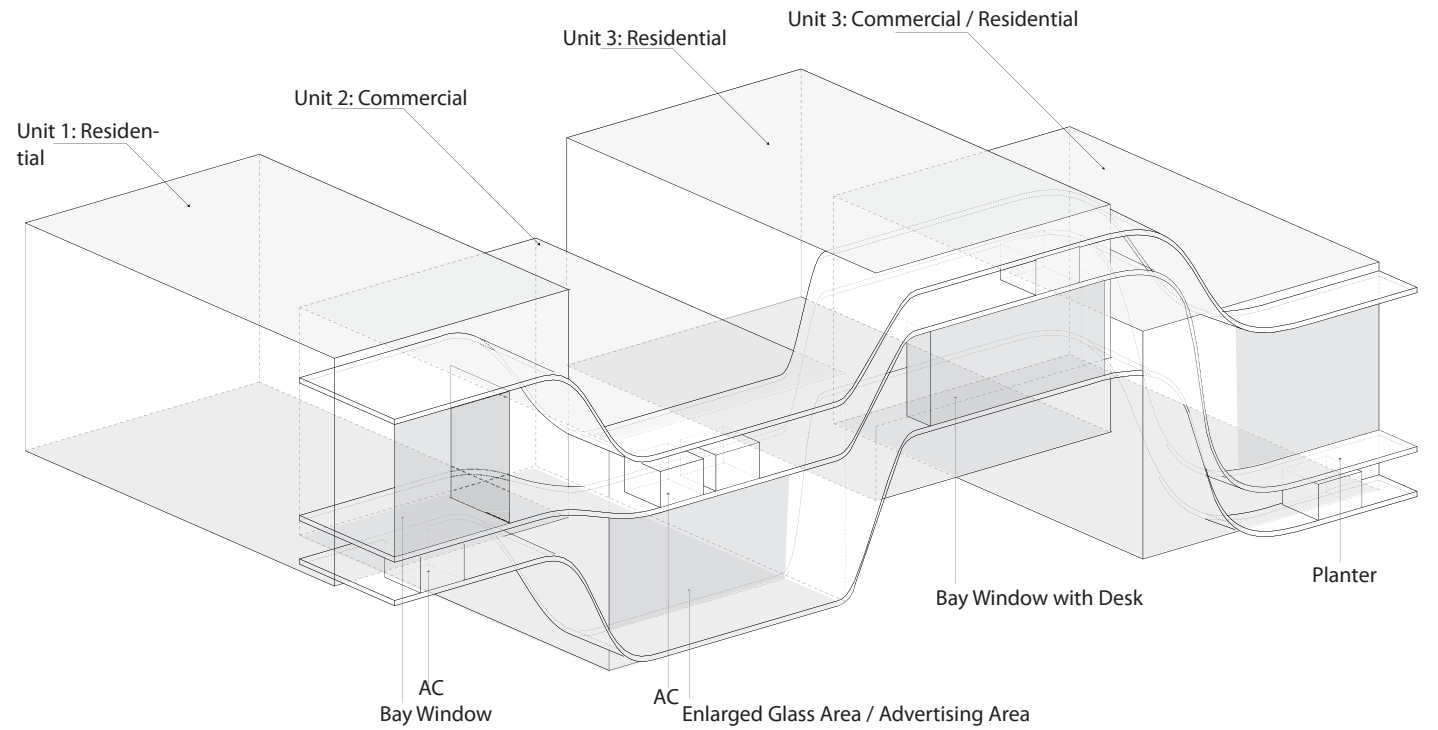
# 03

## Tower Shell Game: Undulating Performances Re-thinking 1970s Hong Kong high-rise facade system

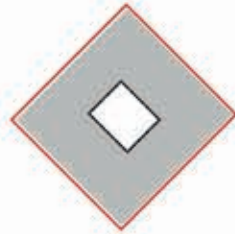
Studio work  
Supervisor: Jason Carlow  
2012 Fall  
The University of Hong Kong

People live in high density cities can always develop wisdom of making fully use of the space. The increasing of the population, development of real estate market result in the rapid number growth of high rise towers in 1970s and 80s. The high cost of land push the fully using of interior space, even façade was being programmed. By analysis the residential and commercial high rises built in 1970s Sheung Wan, I generate some performative sections that human activities can be engaged in, so a façade zone with programs is created. Façade elements that pushed out can be used as balconies, bay windows, pulled in can act as furniture, dropped ceilings ect..

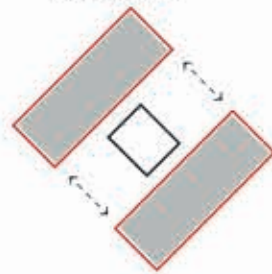
Different from the highly standardized 1970s façade elements, I am trying to develop an undulating performative façade system which creates smooth connections between dierent performative sections. Not like many newly built curtain wall high rises that façades are push forward to separated from the inner program space, the architecture intervention allows dierect human activities happened continuously along the undulating façade elements.



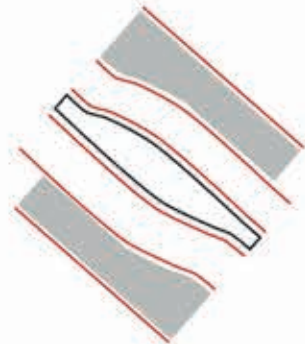
Typical plan of commercial



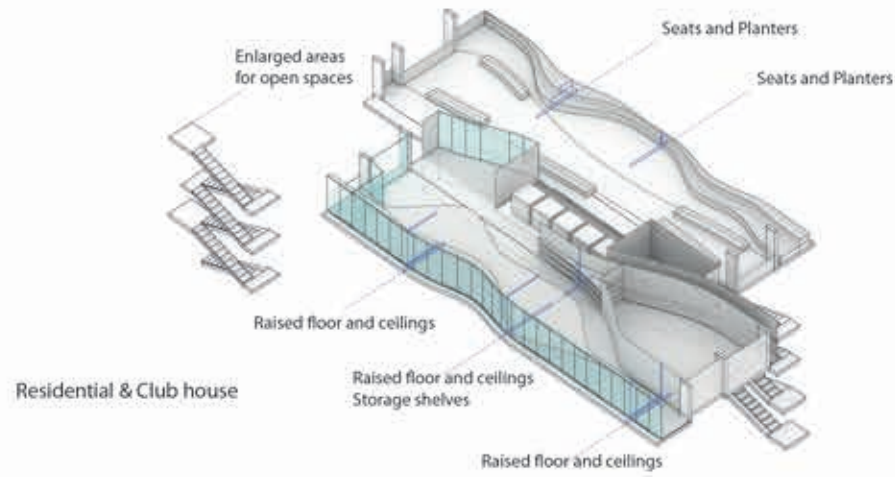
Floor plan broken into two sides



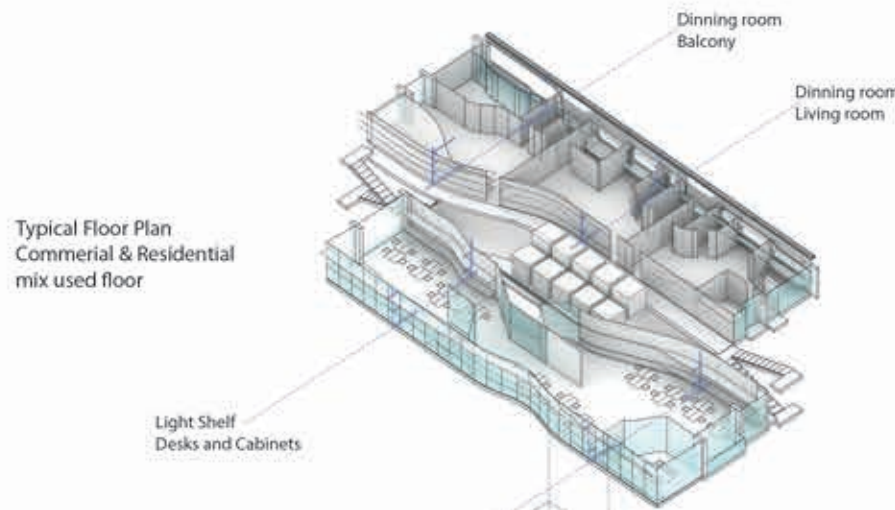
Facade Rearrangement



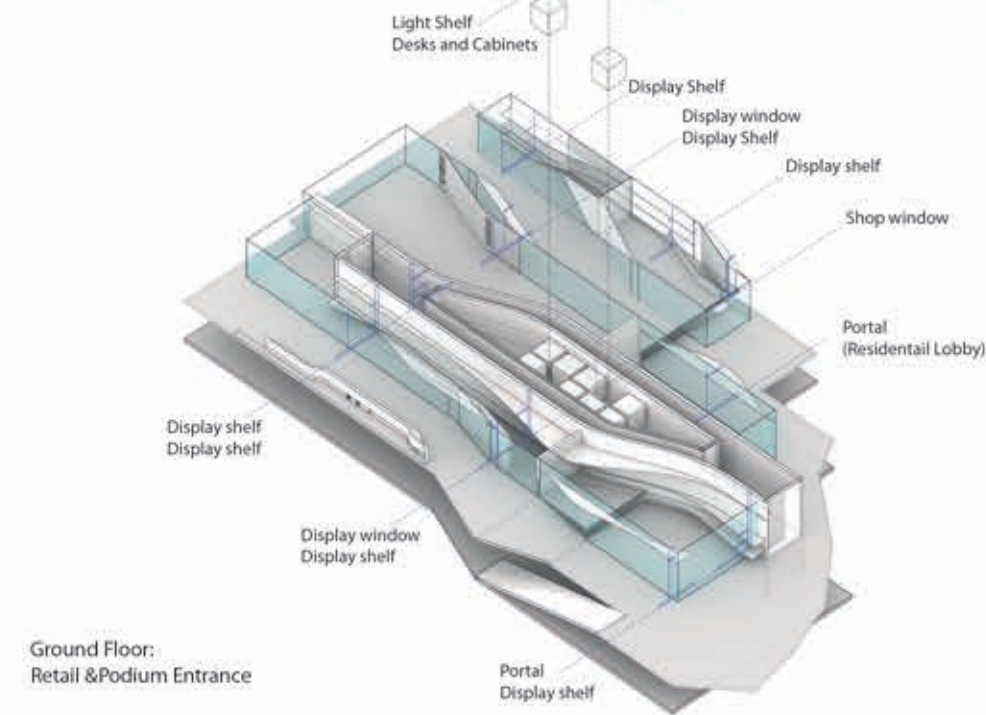
Final plan



Residential & Club house



Typical Floor Plan Commercial & Residential mix used floor

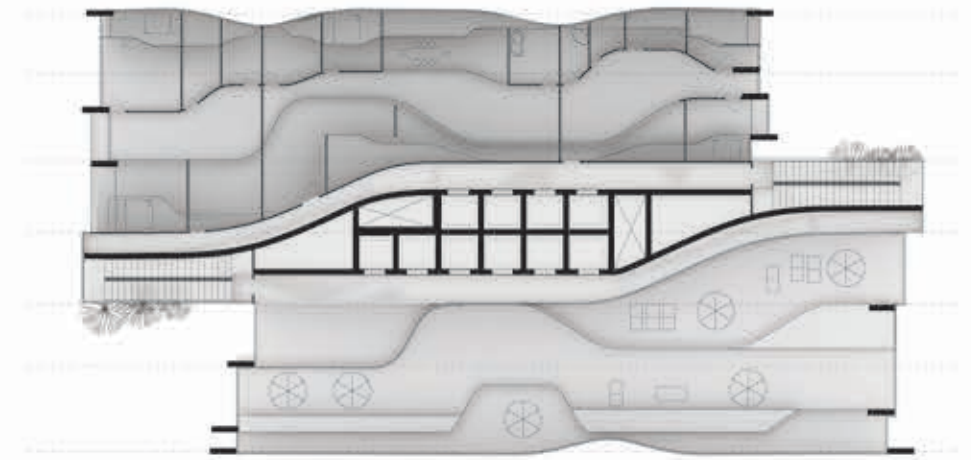


Ground Floor: Retail & Podium Entrance

Residential Wing 23F: 3 Residential Units

Residential & Club house

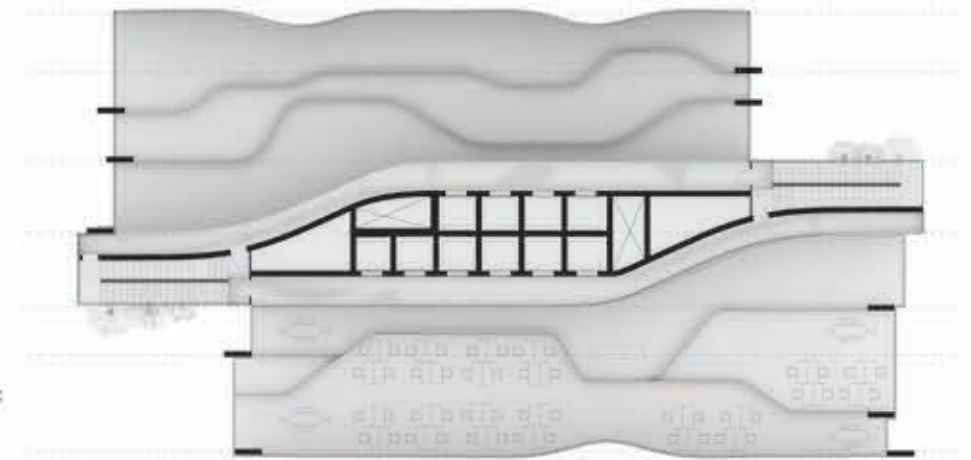
Commercial Wing 21F: Shared Club



Residential Wing 18F: Refuge Floor

Refuge Floor & Commercial/Office

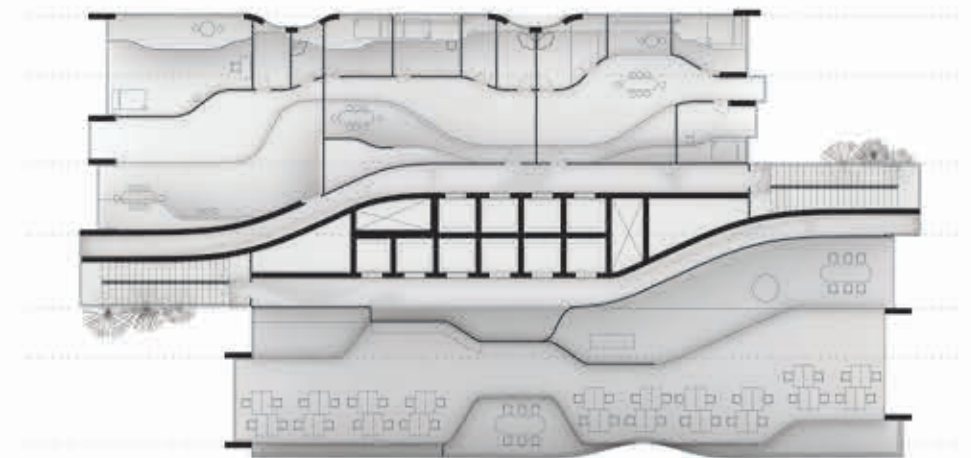
Commercial Wing 16F: Commercial/Office

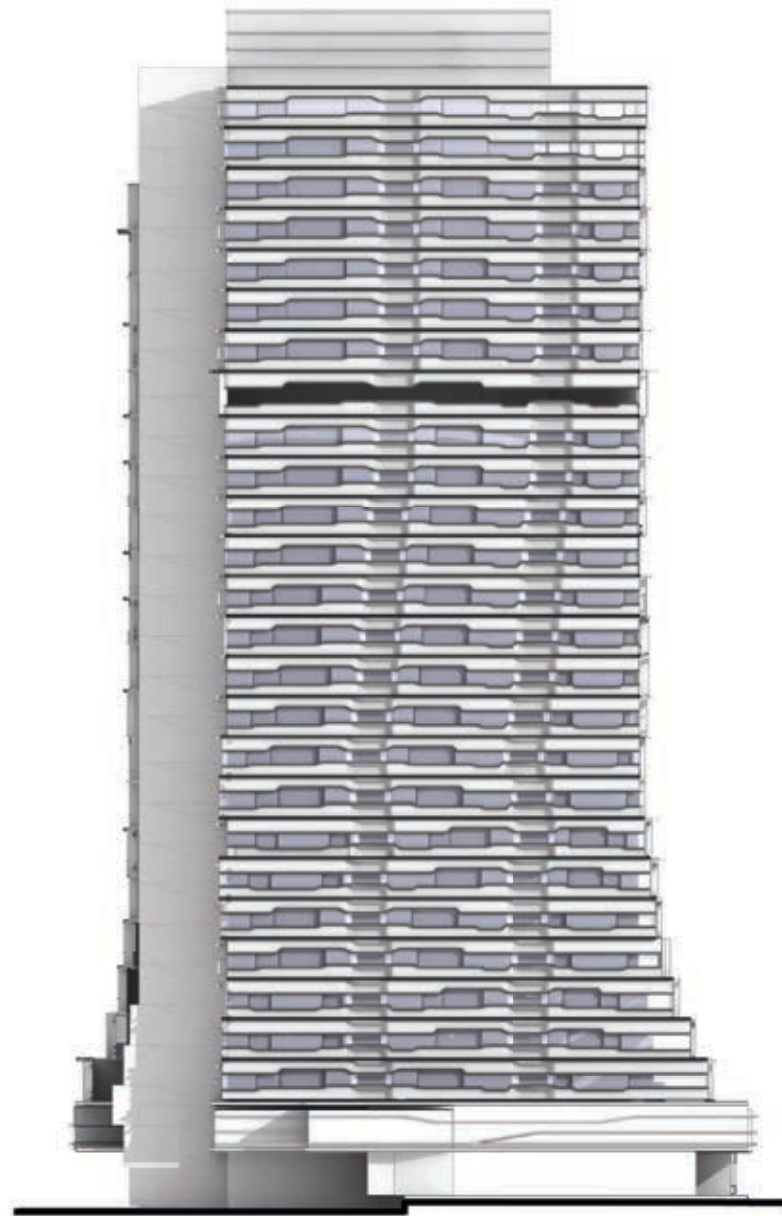


Residential Wing 5F: 3 Residential Units

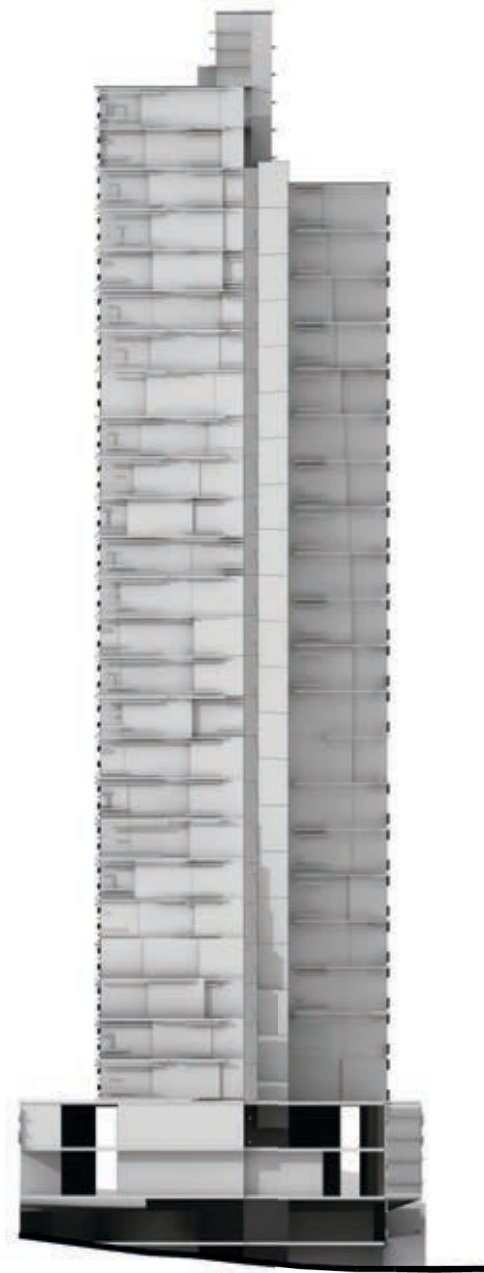
Typical Residential & Commercial/Office

Commercial Wing 4F: Commercial/Office

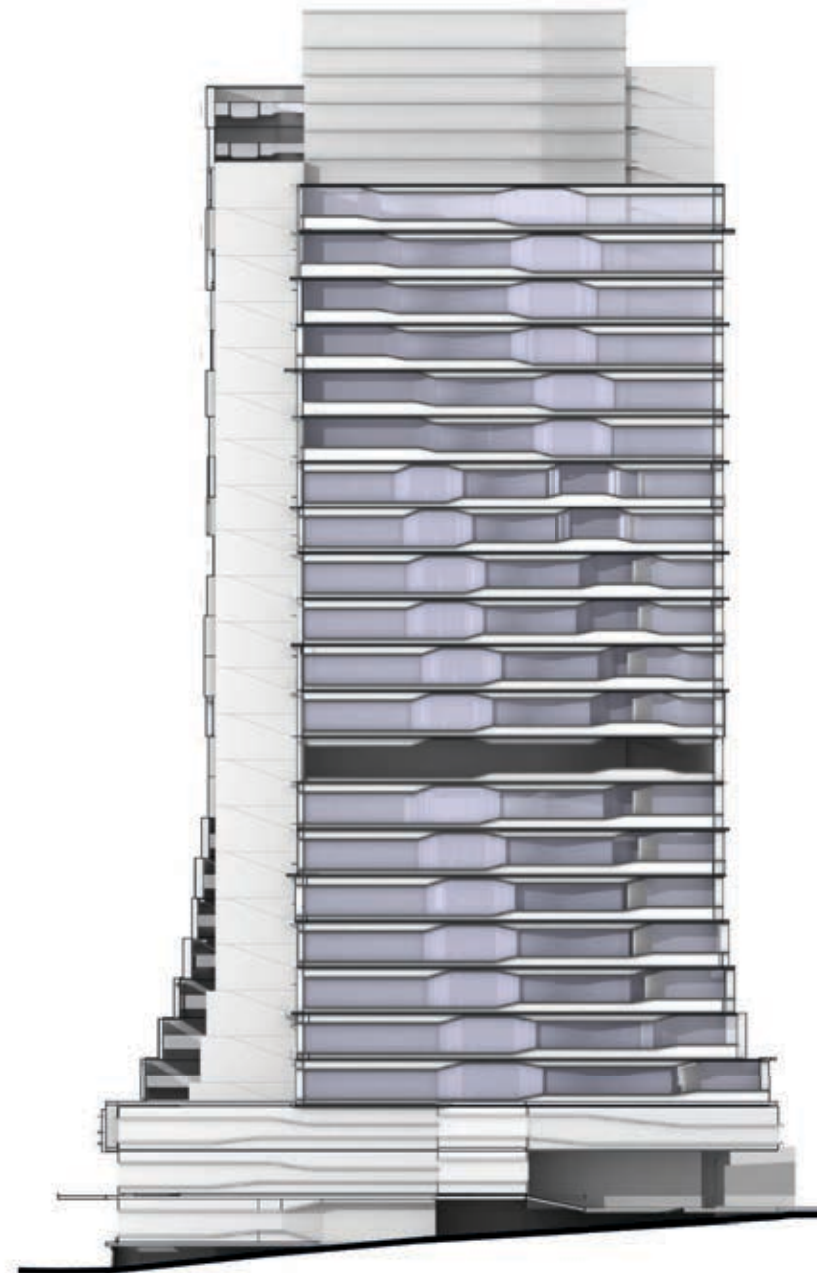




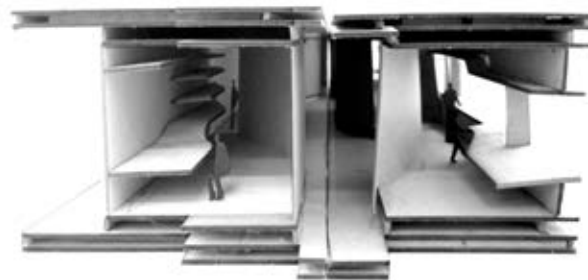
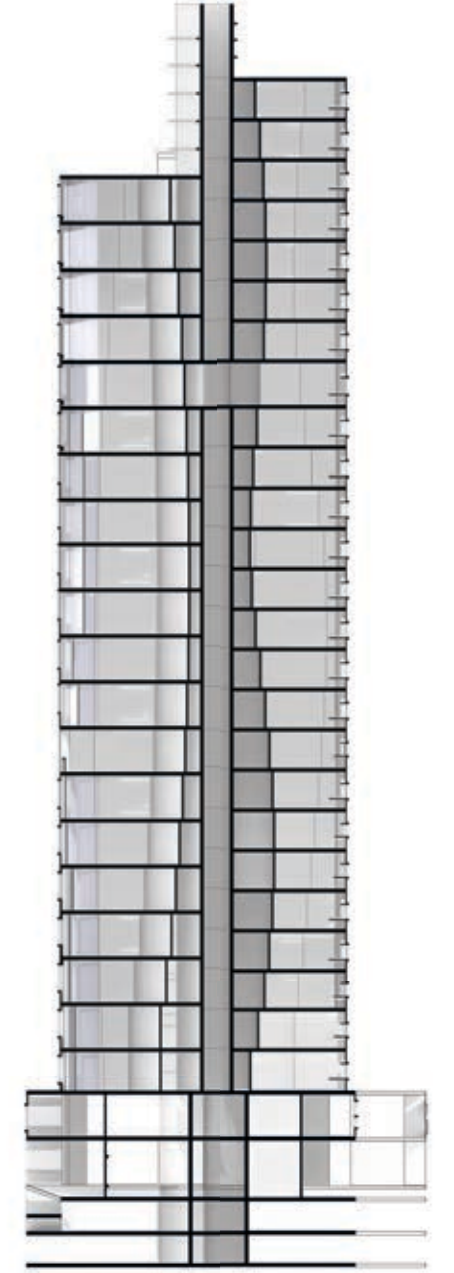
East Facade/ Residential Wing:  
with smaller window/opennings, lower floor height



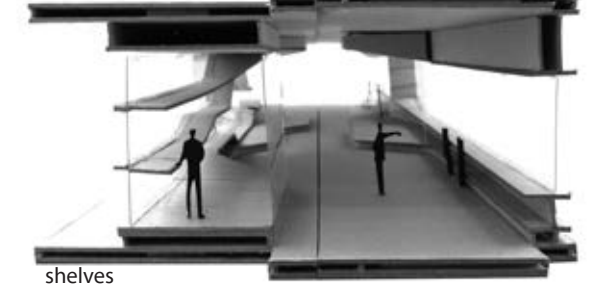
North Facade



Western Facade/Commercial side:  
Larger Glazing, higher floor height



Balcony table surface



shelves

# 04

## Civil Circus

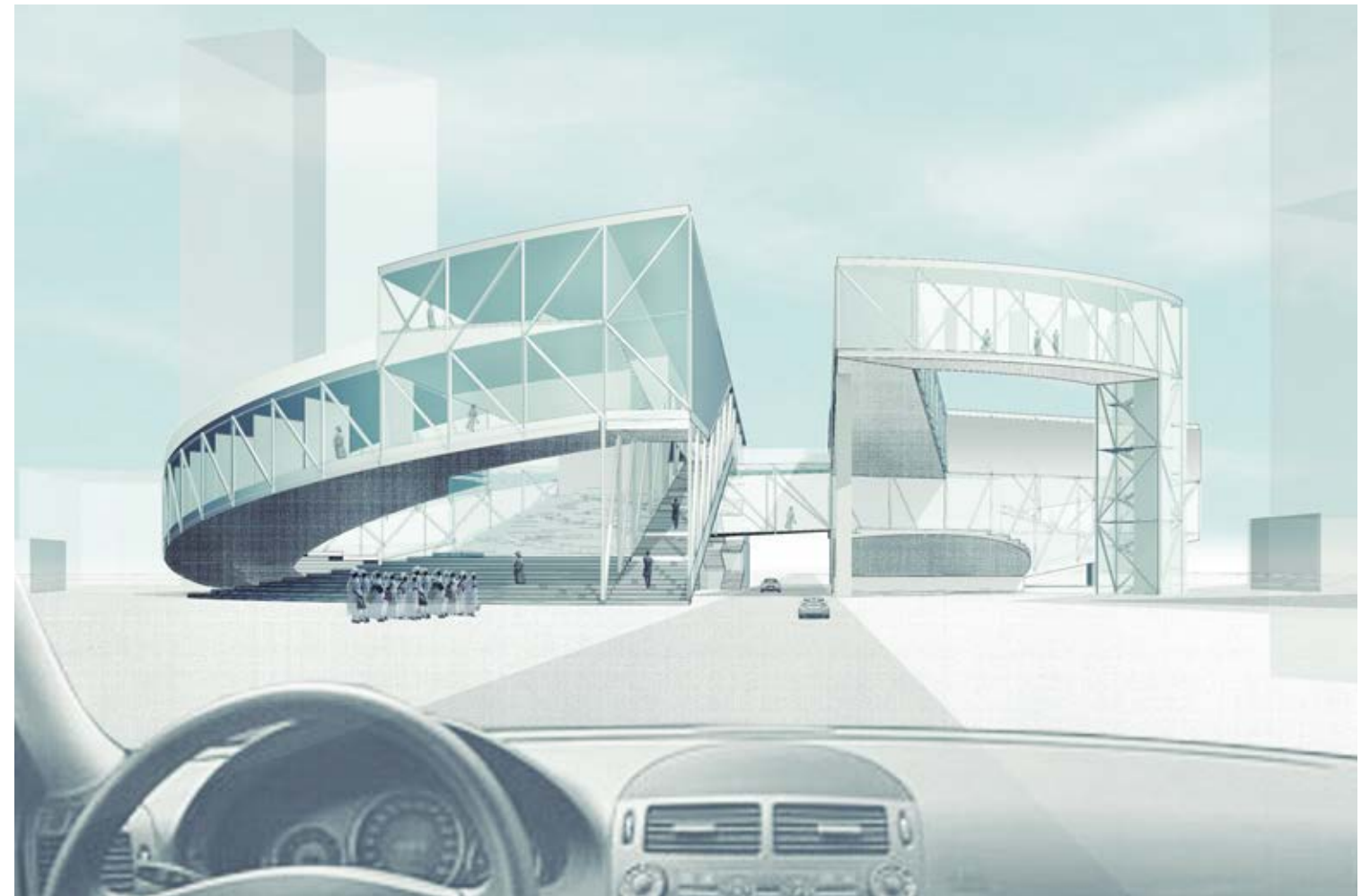
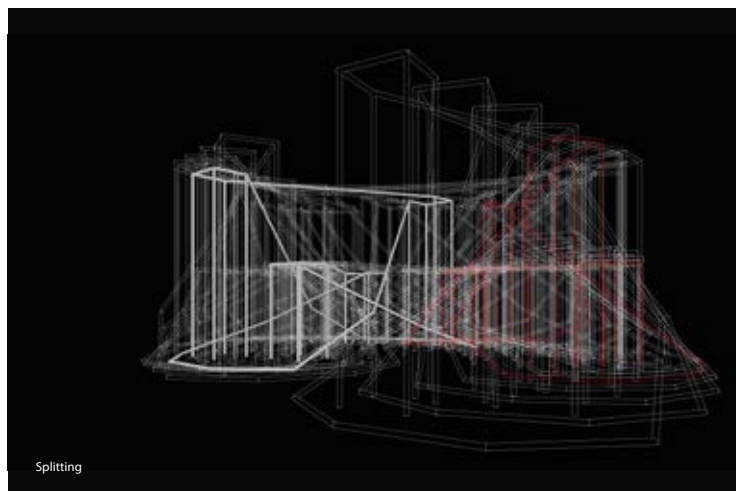
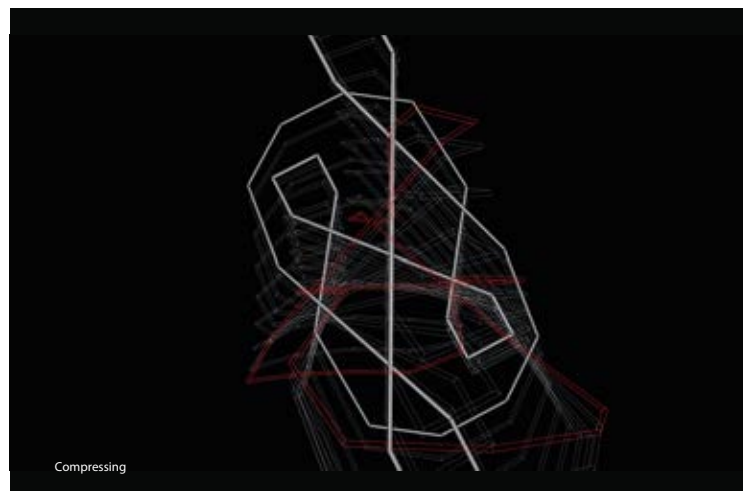
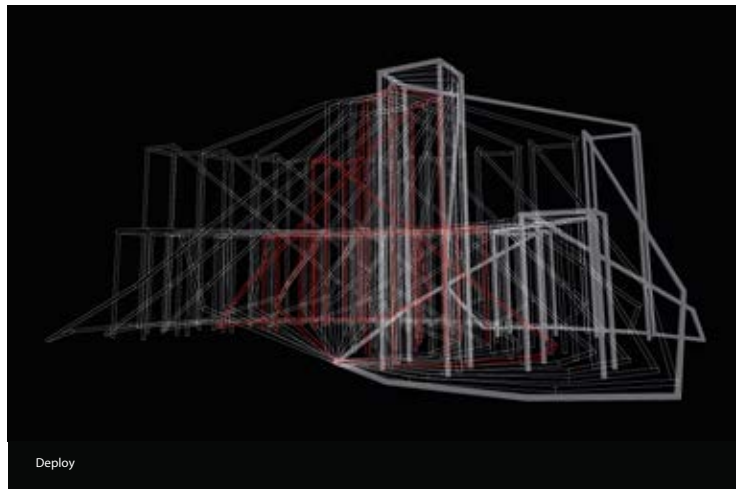
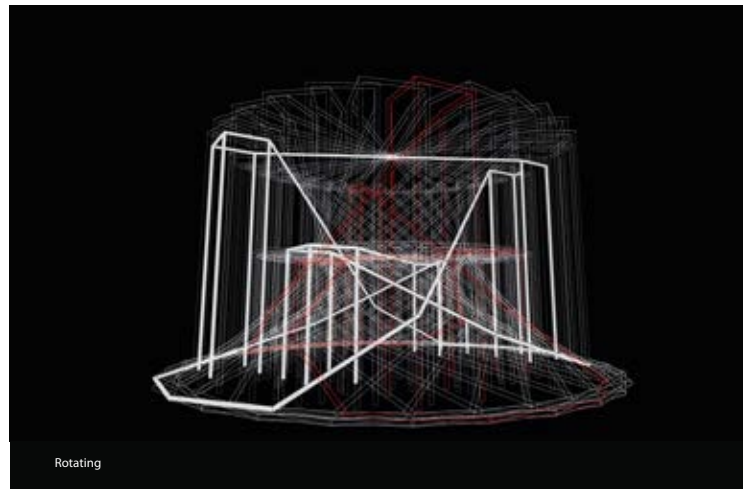
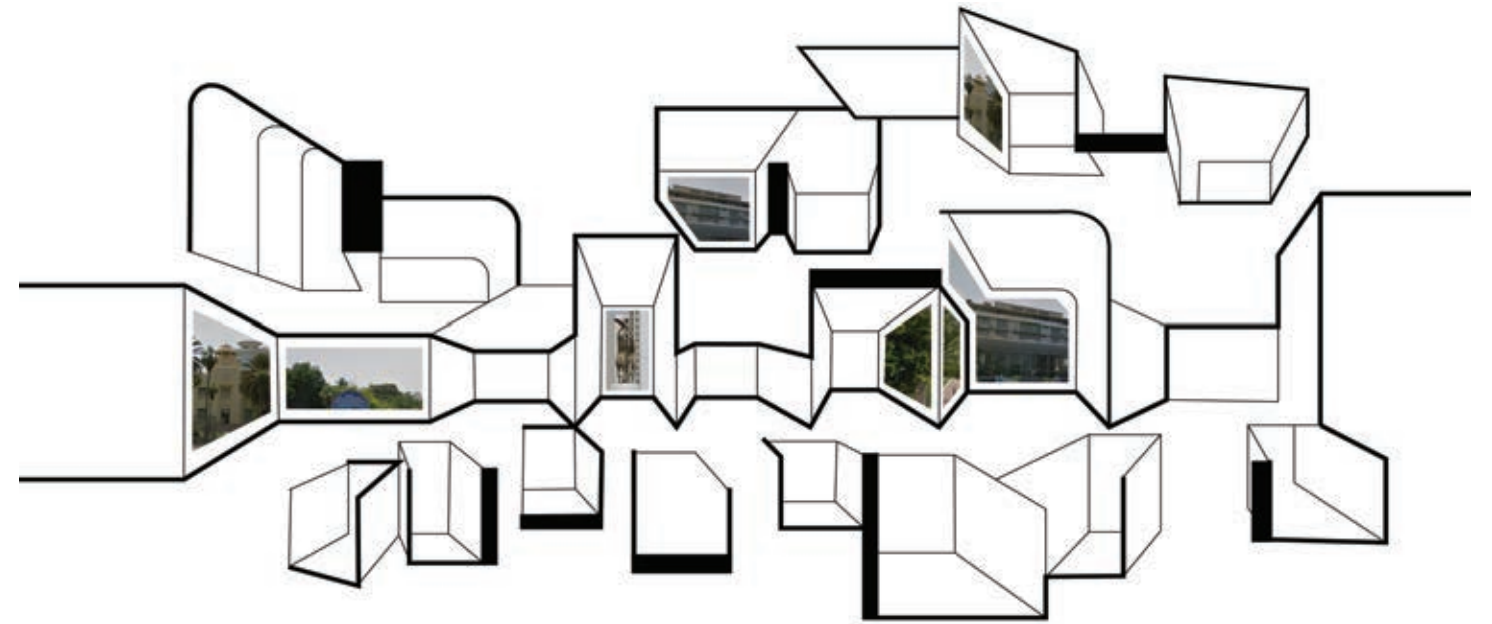
Image Cities Circus--- Urban Circus in Dakar, Senegal

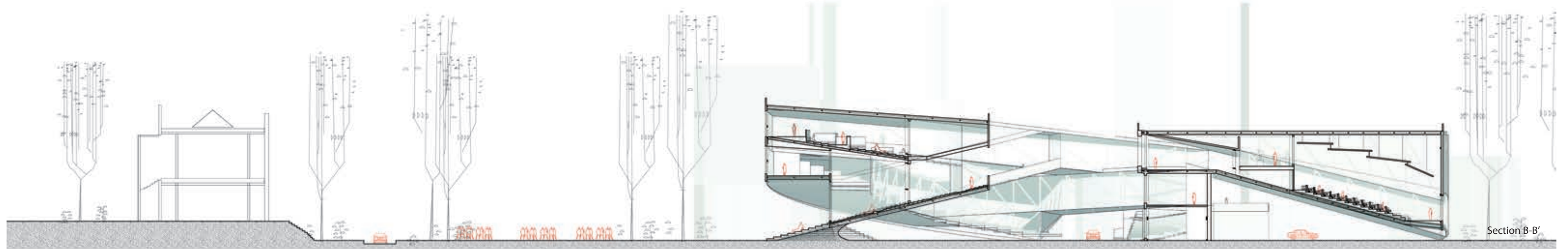
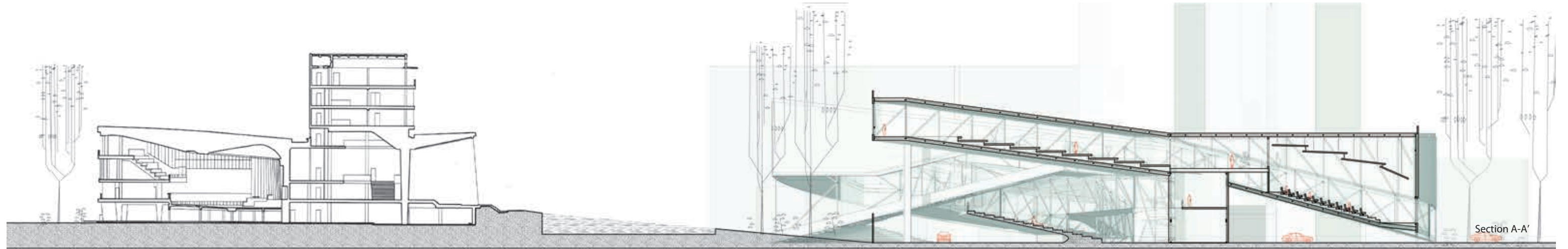
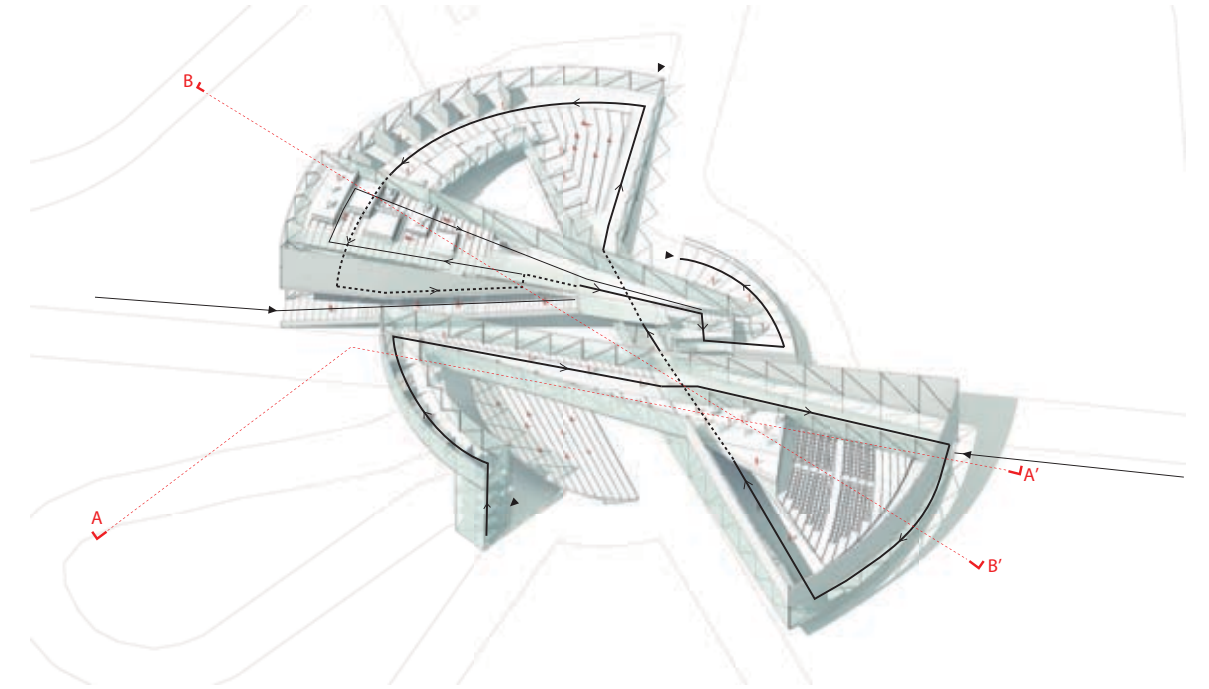
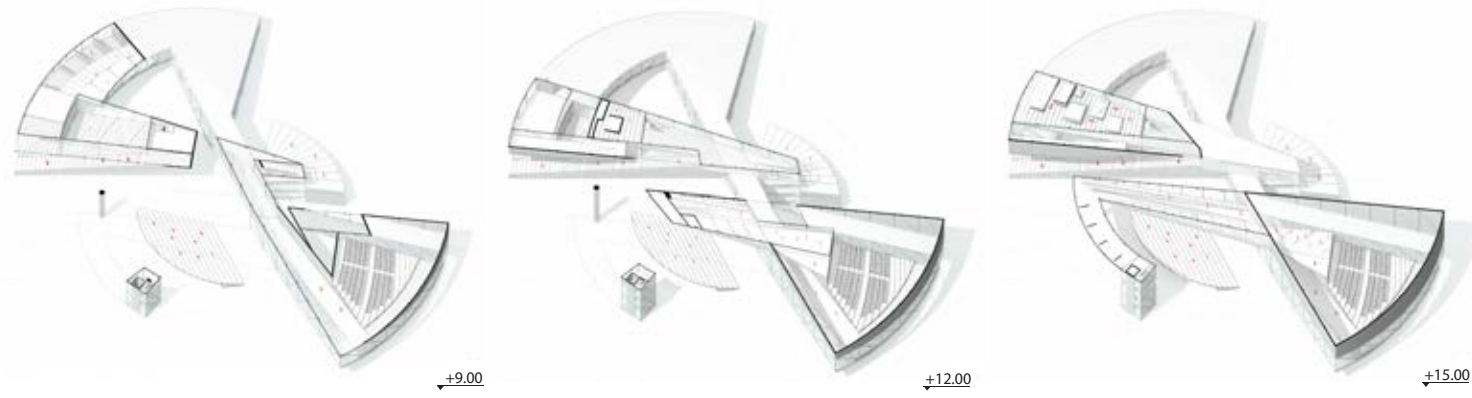
Studio work  
Supervisor: Mario Gooden  
2017 Spring

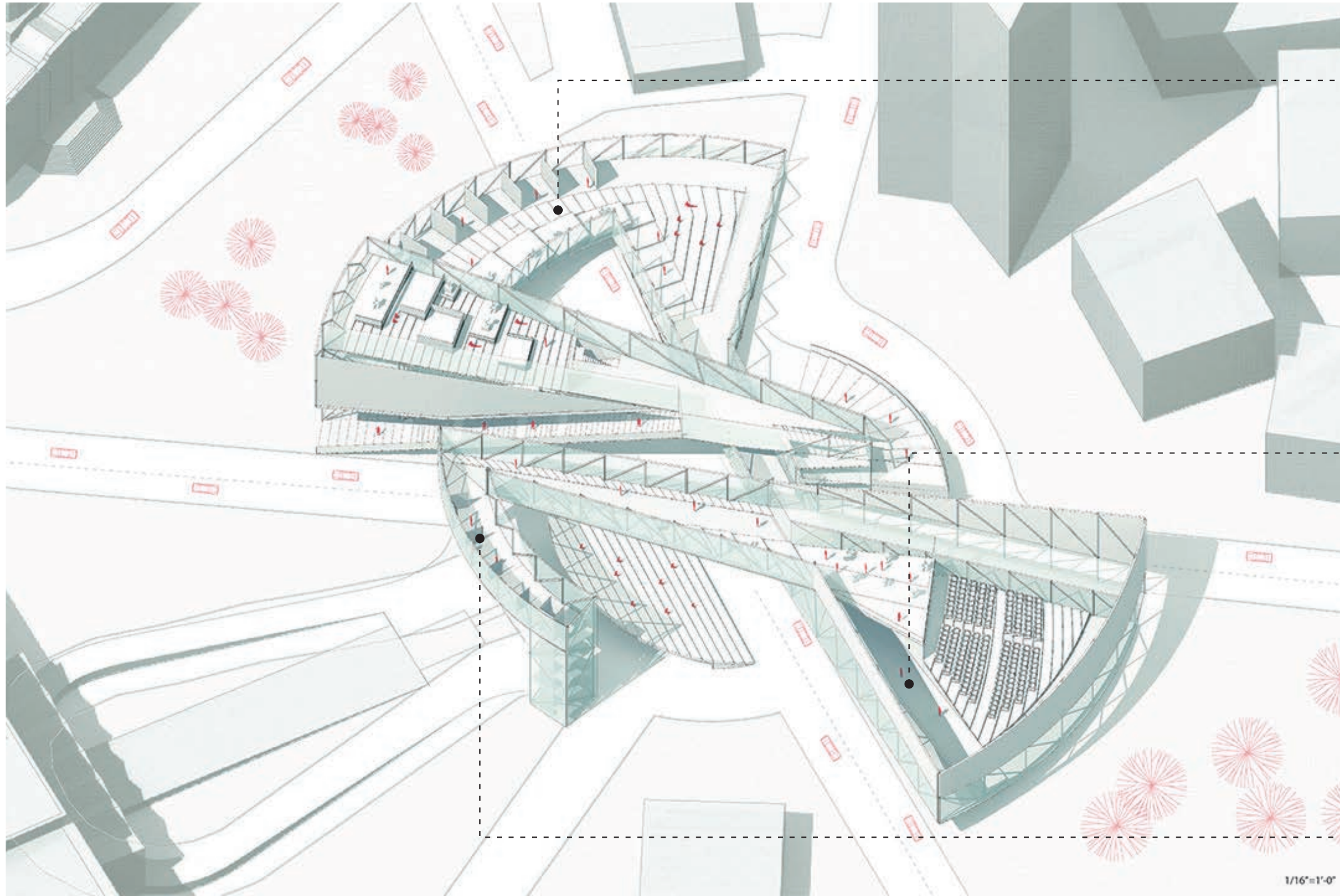
I am creating a public assembly and craft arts exhibition space by the side of national assembly and IFAN museum. Through my intervention I am trying to disrupt the symble of colonial power—the circle and bring the city, the surrounding environment into my building.

By creating several transparent public assembly space, I am celebrating the local villagers' "fenc" system that in villagers' gathering, they are all equal to express their idea to tribe chief. Also by moving through the space, occupying the space, citizens declare their power as well. This public assembly and the National Assembly can create an interesting and ambiguous dialogue.

It is a public building that belongs to the citizen and the city. In my circus, instead of one single performance dominating the show, multiple attractions and surrounding environment invade in are the ways to Against the dominate power. The experience of interior and experience of city views of surrounding landmark buildings are alternate.



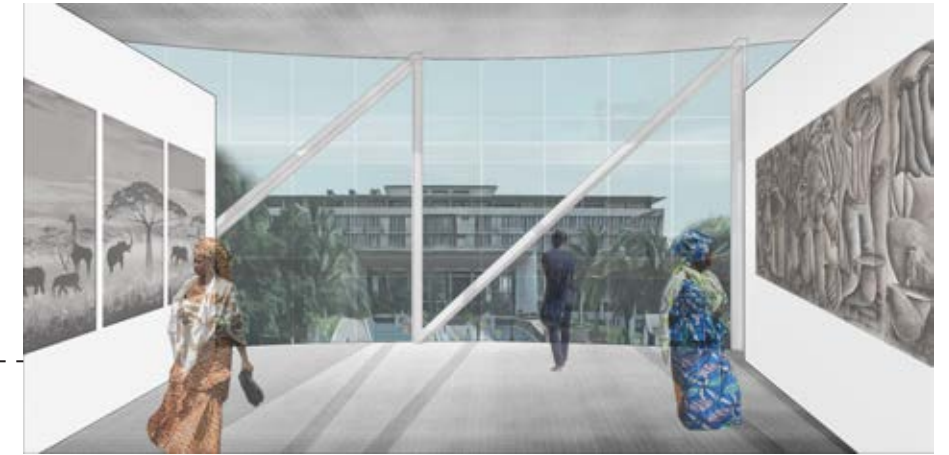




Experience of interior art exhibition and view of Museum are alternate



Circulation, exhibition gallery and public assembly are merging together



Experience of interior art exhibition and view of national assembly are alternate



# 05

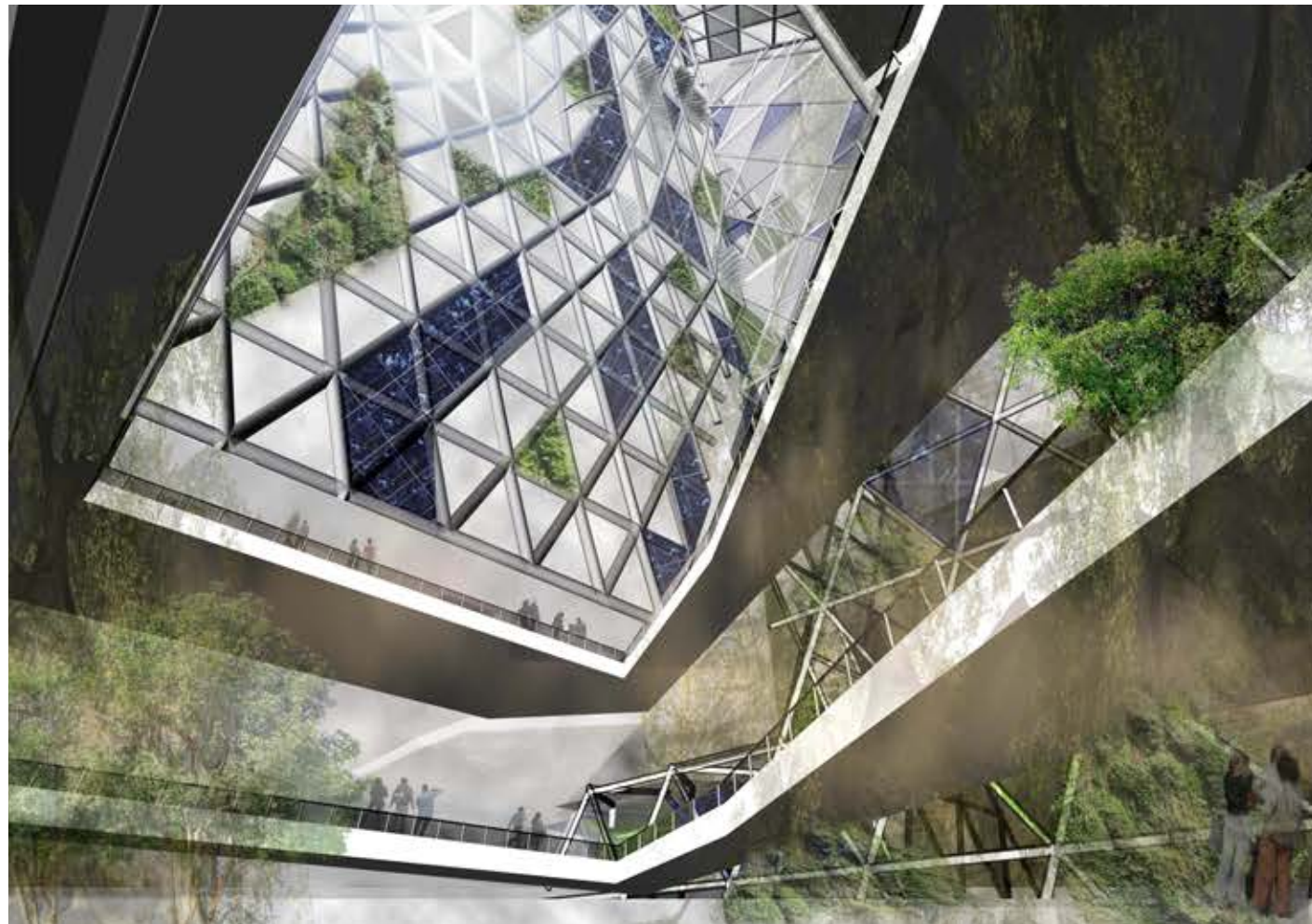
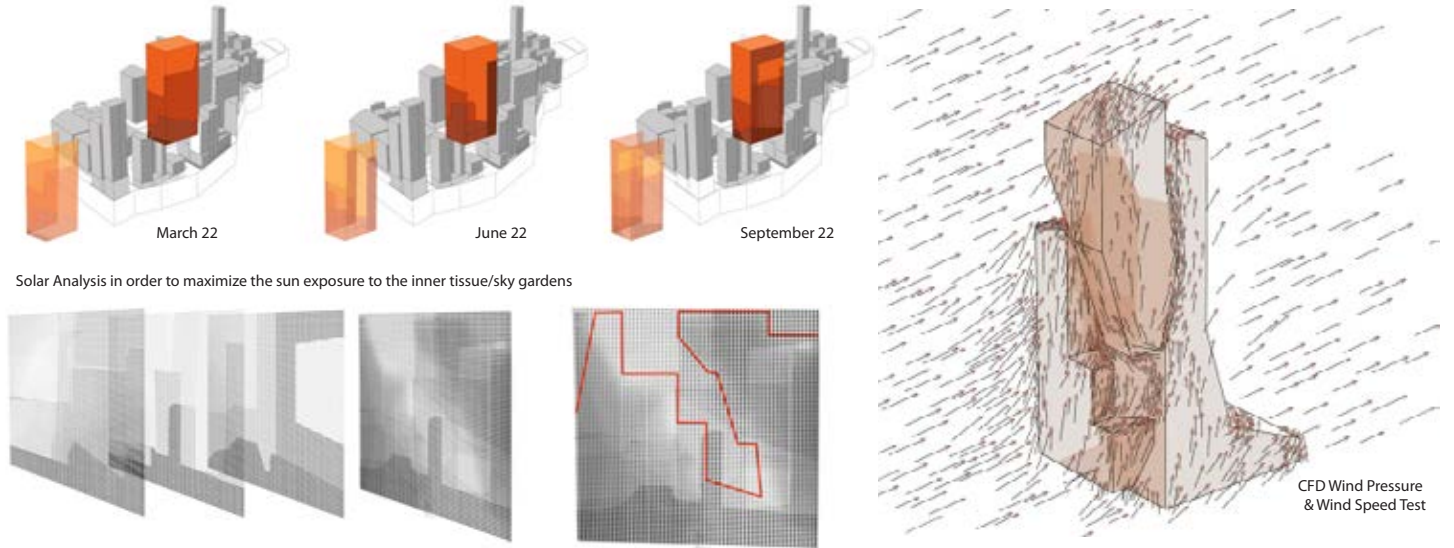
## Healing Tower

A Bio-philic Lung in downtown Hong Kong

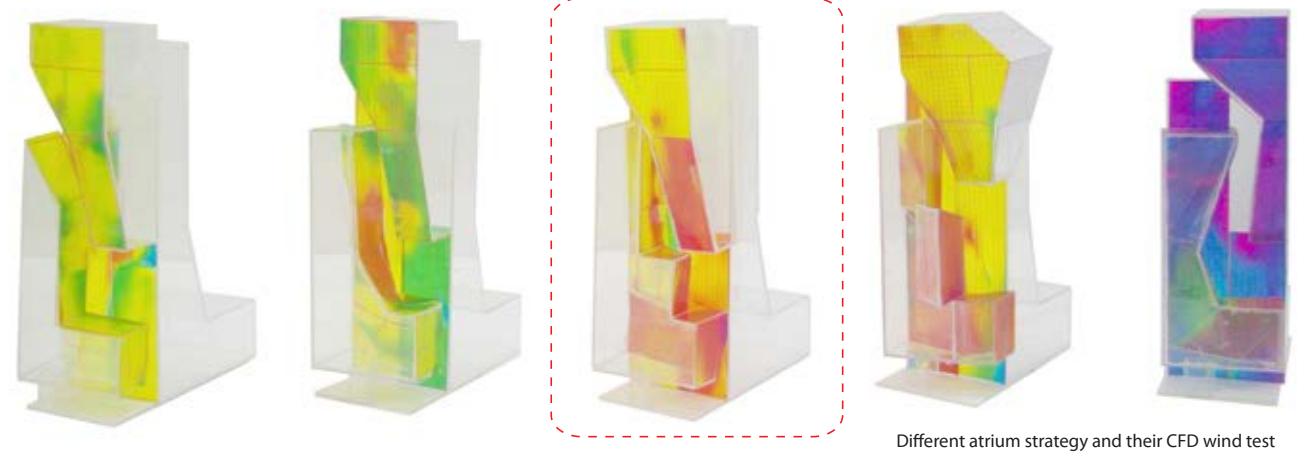
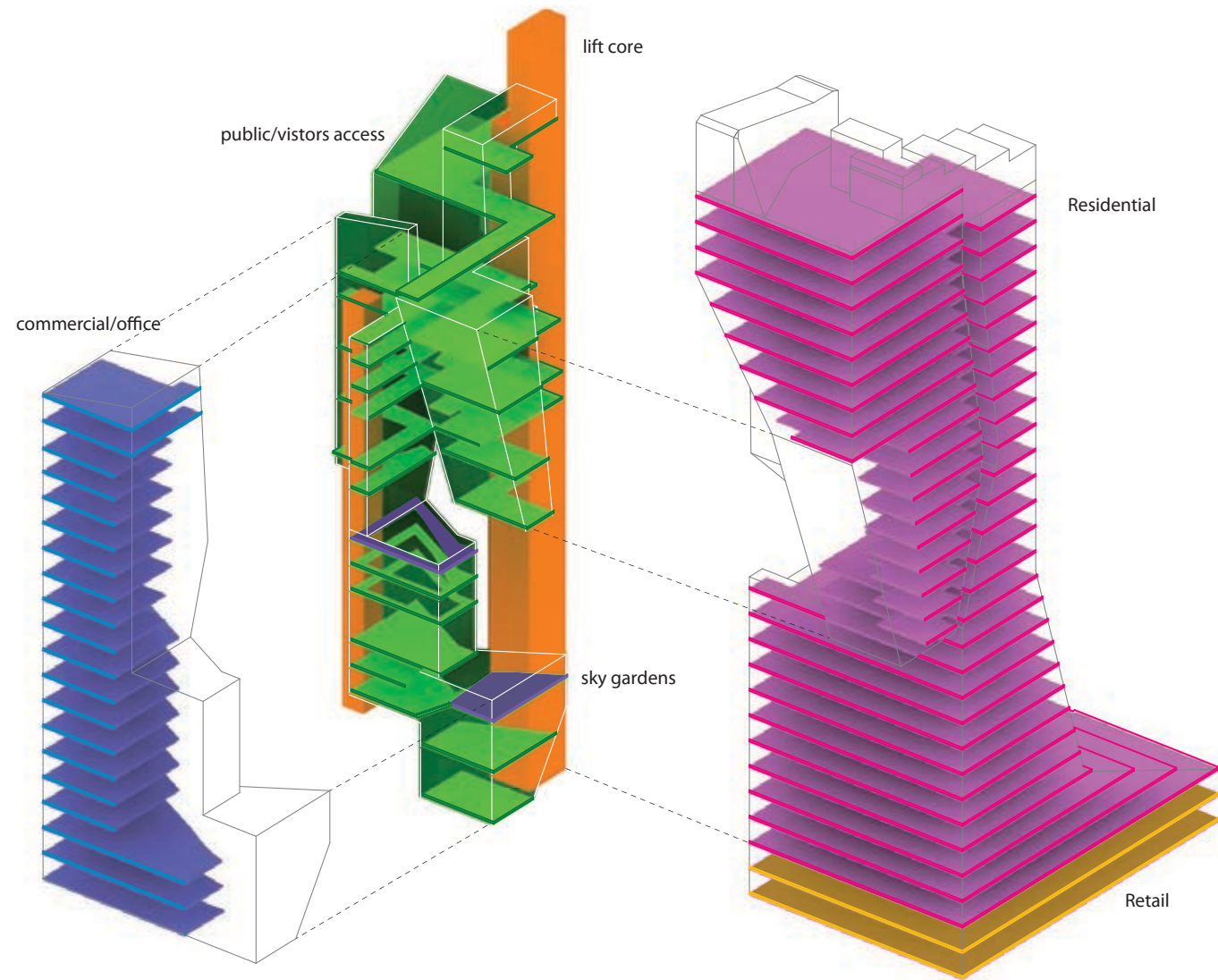
Studio work  
Supervisor: Steven Lau  
2013 Spring  
Collaborator: Kristie Huang  
The University of Hong Kong

The site is situated in an old part of Hung Hom. It is surrounded by a large numbers of funeral services such as flower and coffin shops. There is a deficiency of amenities and public services within the neighborhood and residences in the area consist mainly of low-income tenement housing.

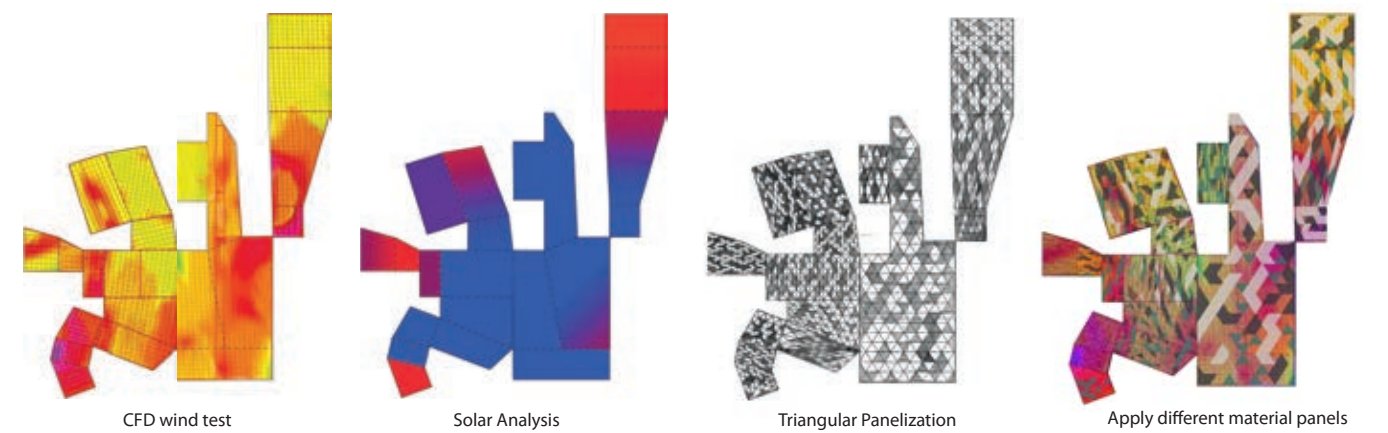
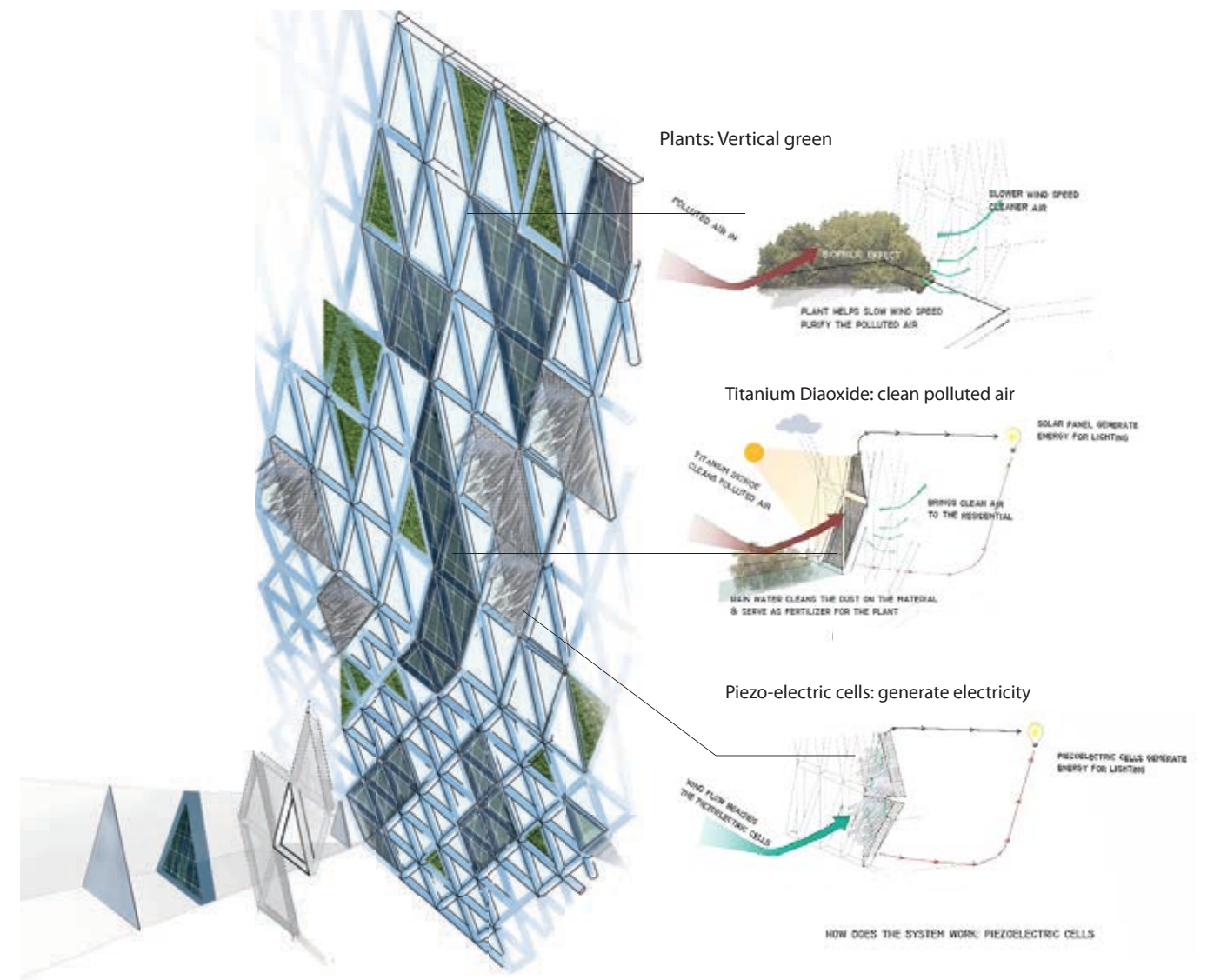
As the site atmosphere is depressed and sorrow, we are proposing a building that can "heal" people's bad mood. I think "healing" contains two aspects: social healing & environmental healing. Adding community spaces, skygardens can achieve social healing, while smart materials that can clean polluted air, funeral dust can be a method of environmental healing. Begin with a simple rectangle form from a "spiraling garden" is caved from the volume of the rectangle creating a contious spatial sequence with a series of open terraces taht serve as skygardens. Smart material will be applied onto the inner facade of the atrium to act as a "tissue" which can clean the polluted air, generate electricity.



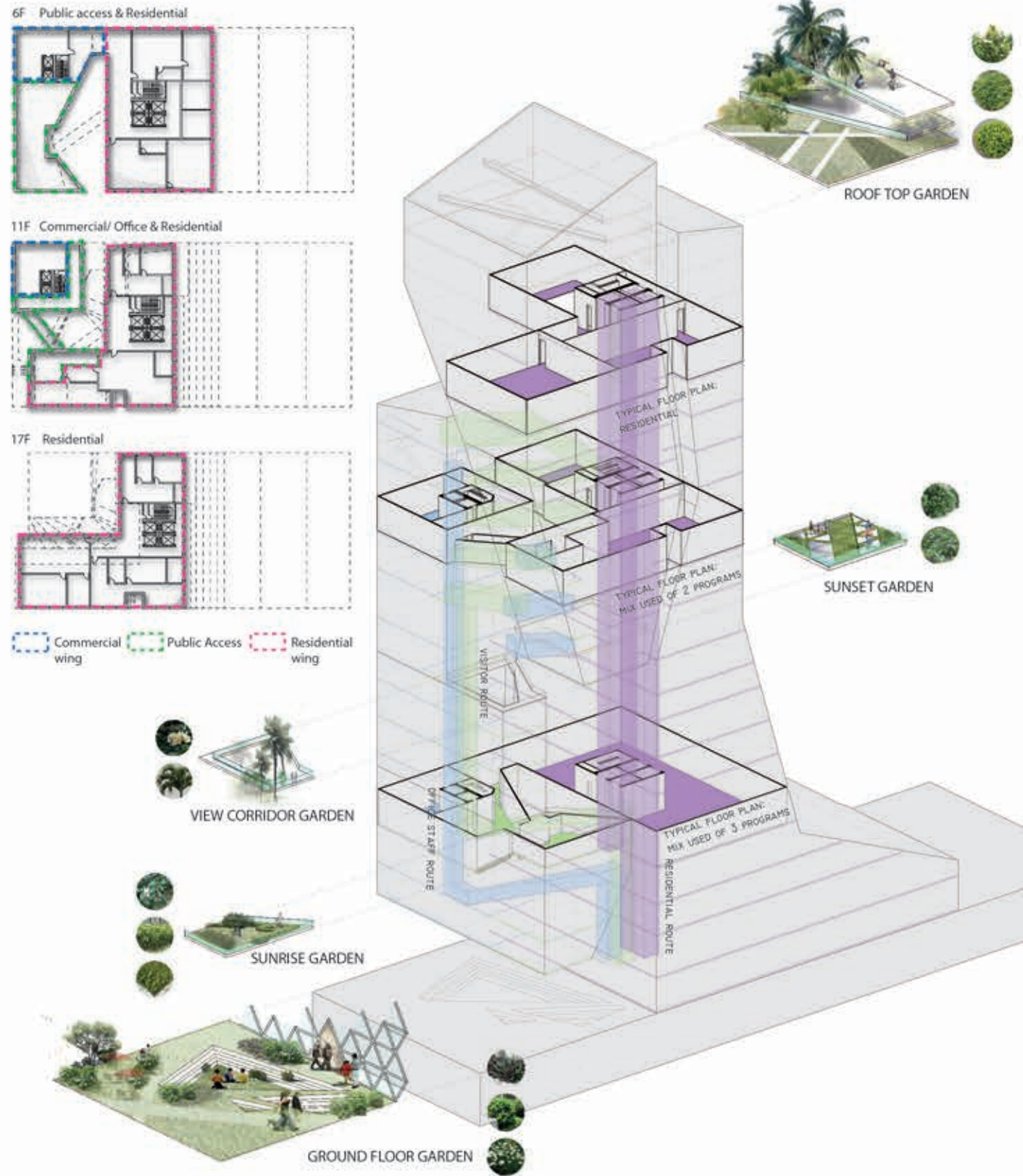
### The arrangement of programs



### Smart Material Applied onto the Inner Tissue



### Mixed-Use Program Arrangement



### 5 Different Sky Gardens



# 06

## City in Transformation

Re-build Mina Pilgrimage Tent City

Studio work  
 Supervisor: Tom Verebes  
 2014 Spring  
 The University of Hong Kong

I am trying to criticize the existing static and homogeneous condition of the existing hajj city and trying to develop a responsive and more diversified system.

My design is about building a set of permanent transformable architectural system in Mina Pilgrimage "tent city" which can transform responsively to achieve multi-use for both residential and greenhouse farming.

The city is over crowded in the hajj time, and totally empty in off-season time. The pilgrims used to come with their own temporary installations and doing their worship and then remove those installations at the end of Hajj season. Later on, KSA government provide tents unitively, install them before hajj season and remove them after Hajj. Recent ten years, new type of tents are invented, they have better performance in many aspects and are remaining "permanent" in Mina valley.

### Urban Scale: Off-season time

Used as green houses, the size of opening depend on the sun/weather conditions, and can chage responsively.

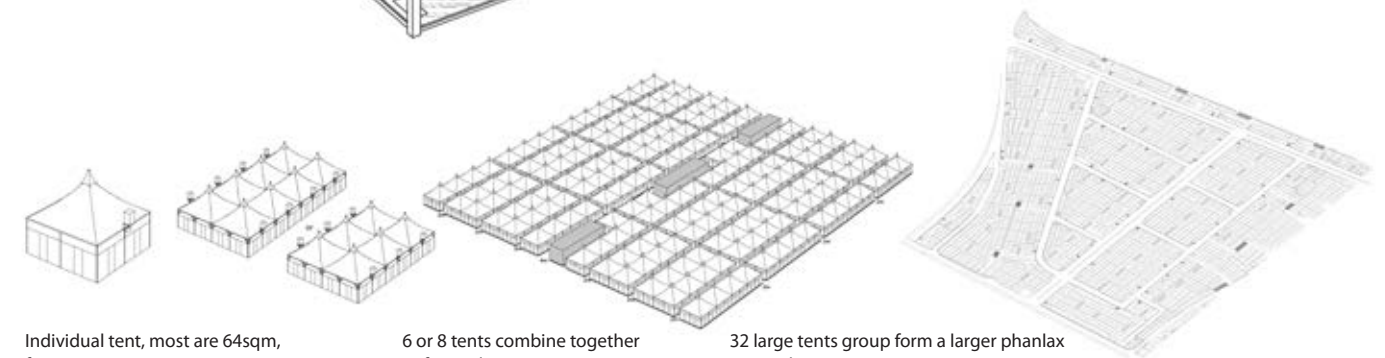
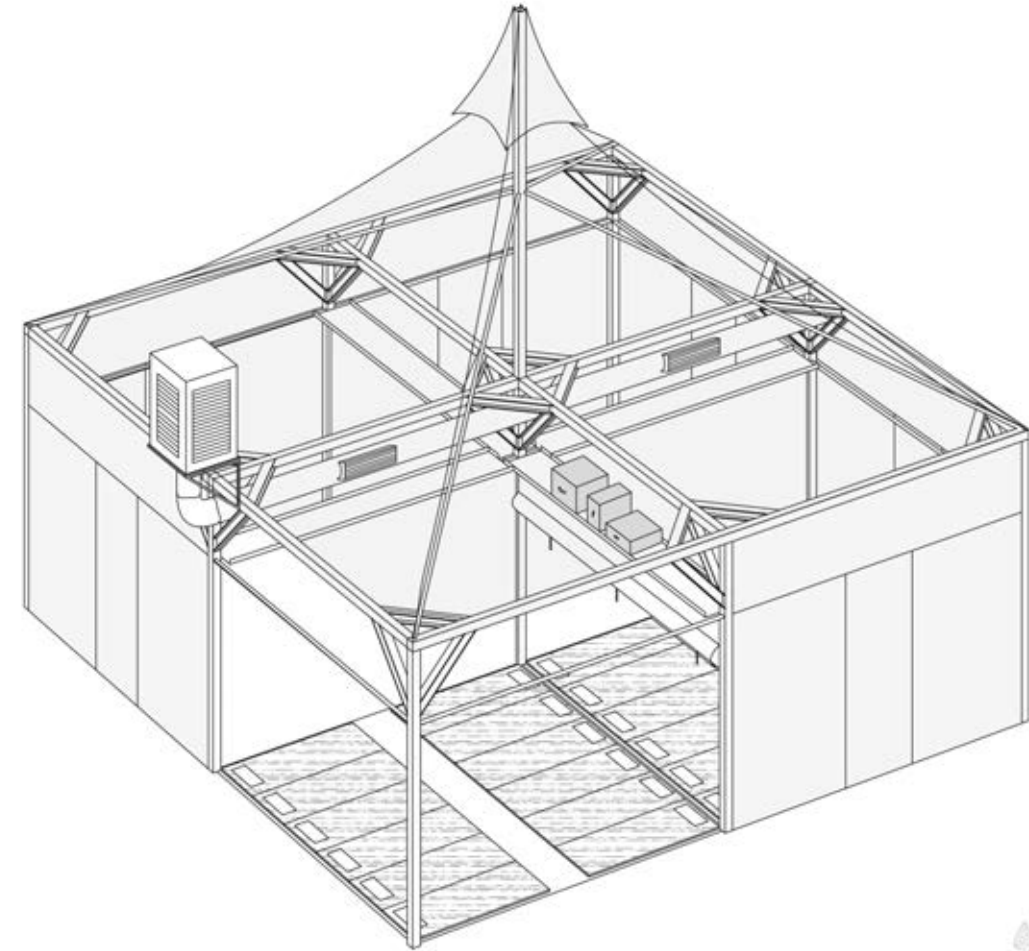


### Urban Scale: Hajj time

Used as tents for living, the canopies are opened for shading



### Existing Tent Condition inside Mina Tent City



Individual tent, most are 64sqm, few are 48sqm or 96sqm

6 or 8 tents combine together to form a larger tent group

32 large tents group form a larger phanlax size is about 120m x120m with 3 washrooms/public water supply

#### Success:

- Easy to install and remove
- Fire proof tents
- Air-conditioning is provided

- An efficient way to hold 3million people for 5 days
- Much better control compared to the autonomous condition before

#### Limitation:

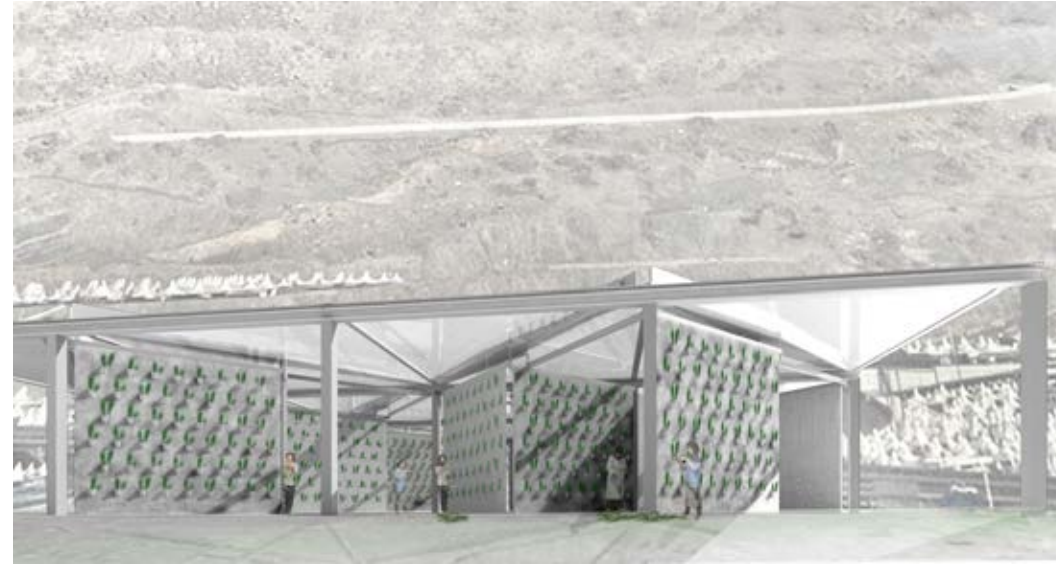
- Super dense, 1.3sqm per person
- All the tents keep their existing manner but completely no use in the off-season time

- With no elastic to further growth, so KSA government is building new towers
- All identical, no diversity
- No privacy, No public/empty

An Architecture System that Can Transform to Achieve 5 Days Tent City for Pilgrims & 355 Days Green House



Type A Off-season Time: Green house



Type B Off-season Time: Green house

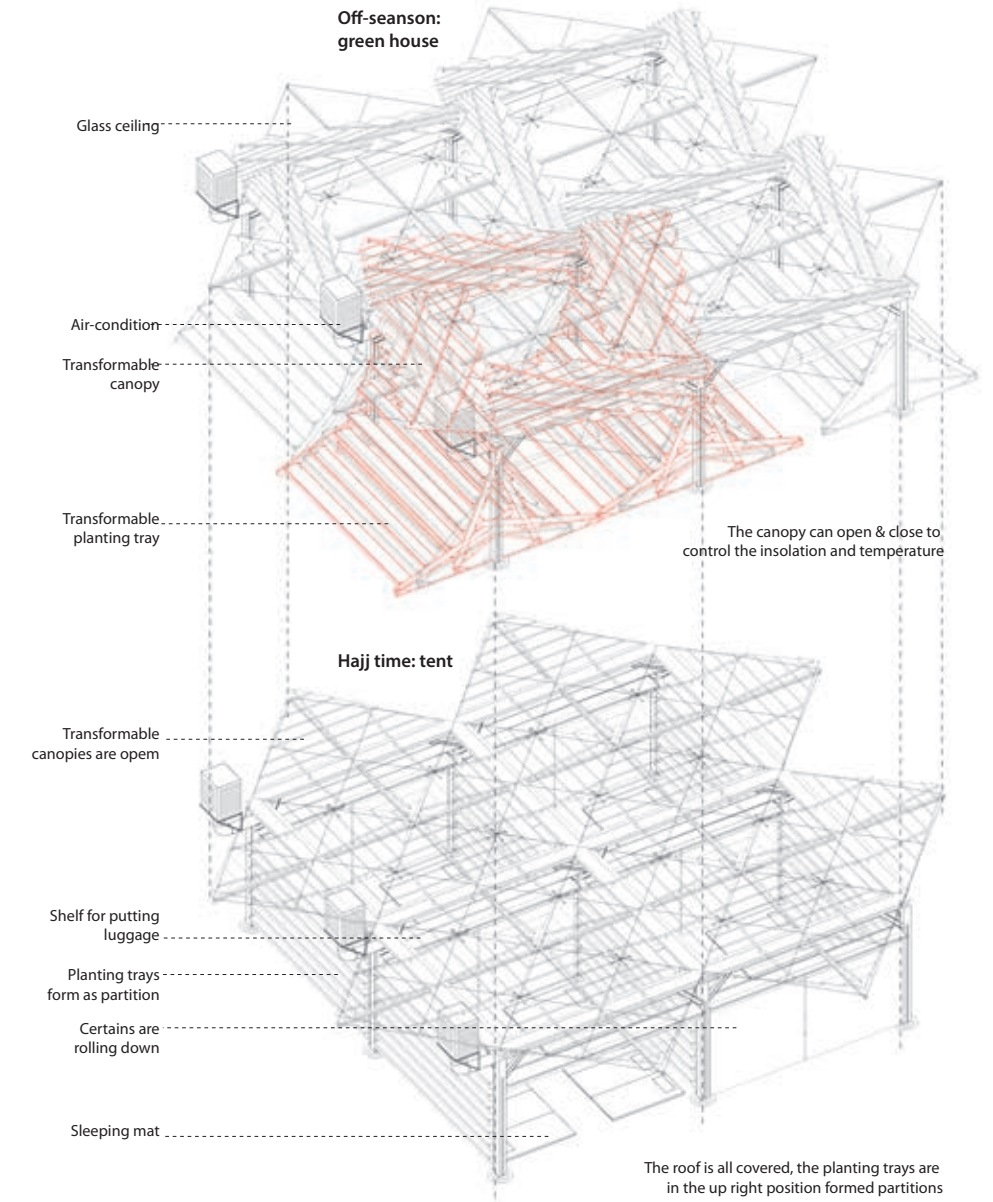


Type A Hajj Time: Tents for pilgrims



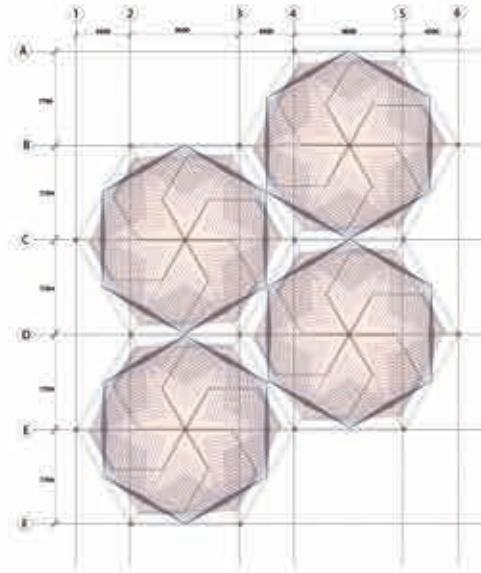
Type B Hajj Time: Tents for pilgrims

My Proposal: New Transformable Tent Type A

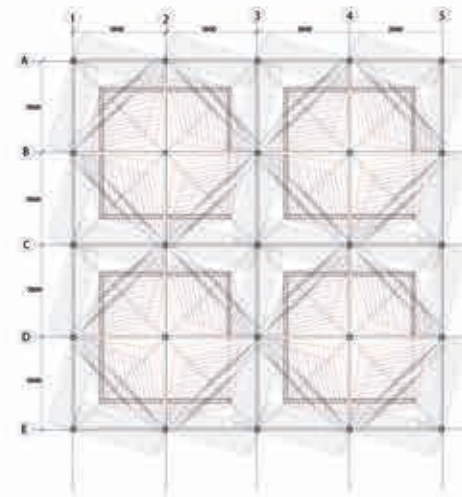


**Towards diversification of the tent city: 5 different units types**  
 Upon the basic two type A & B, more sub types can be further developed

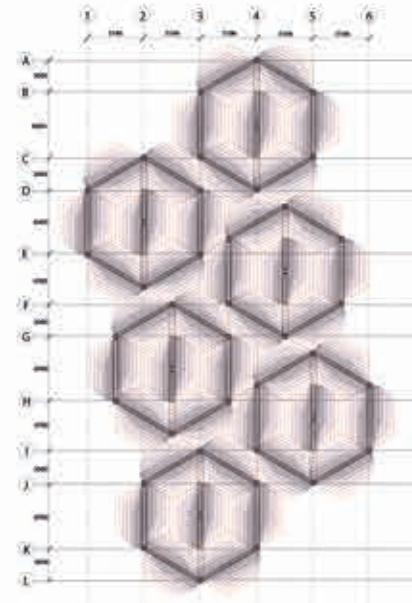
Large unit for package groups



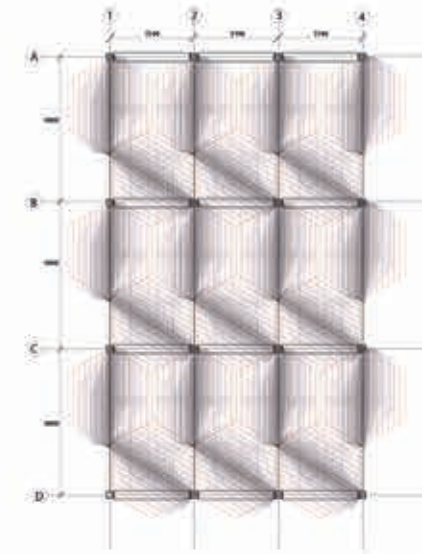
Two types of small units for family



Two types of small units for family



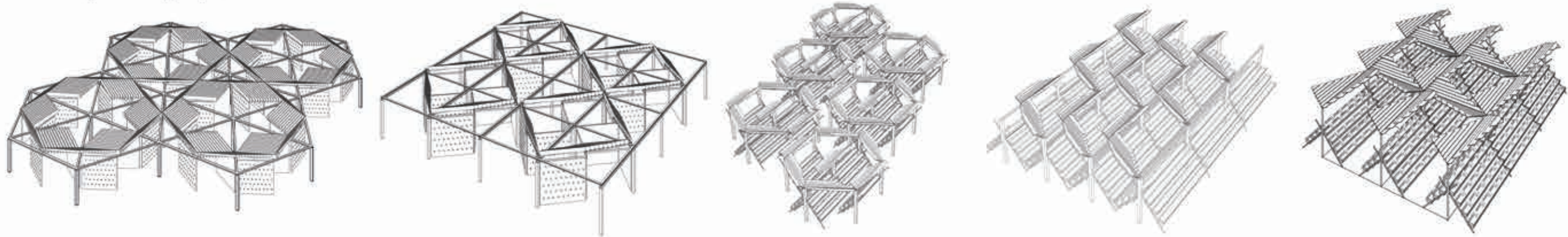
Two sizes of grid dorm space



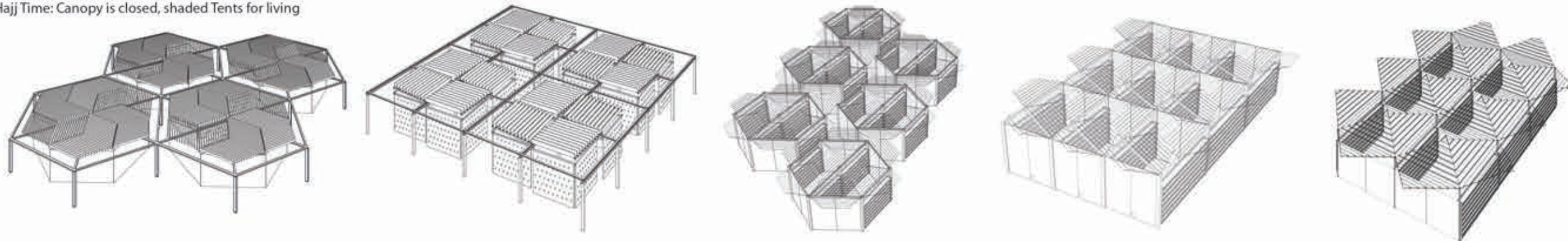
Two sizes of grid dorm space



Outside Hajj Time: Canopy is open, used as Green House



Hajj Time: Canopy is closed, shaded Tents for living



## **PRACTICE**

Leigh & Orange Architects  
08.2018~Present

D Y Architects  
09.2017~07.2018

Leigh & Orange Architects  
08.2014~10.2015

Rural Urban Framework  
08.2011~07.2012

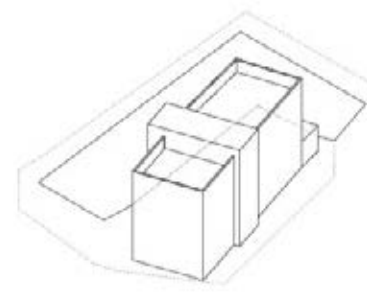
# 01

## Works in Rural Urban Framework Angdong Town Charitable Hospital

Professional work  
Supervisor: John Lin, Joshua Bolchover  
2011 Aug~2013 July  
Rural Urban Framework

2016 Shortlisted, RIBA International Prize

The project addresses the design and management of hospitals in a rural context. Working closely with the charity and government, the program of a hospital is re-configured. The design begins with a simple strategy to provide a continuous ramp access to all floors. This also creates a large central courtyard space for public use. The materials are recycled bricks and custom-designed concrete screen blocks.



The old hospital building had no lift. Patients had to be carried up the stairs on their relatives' back.



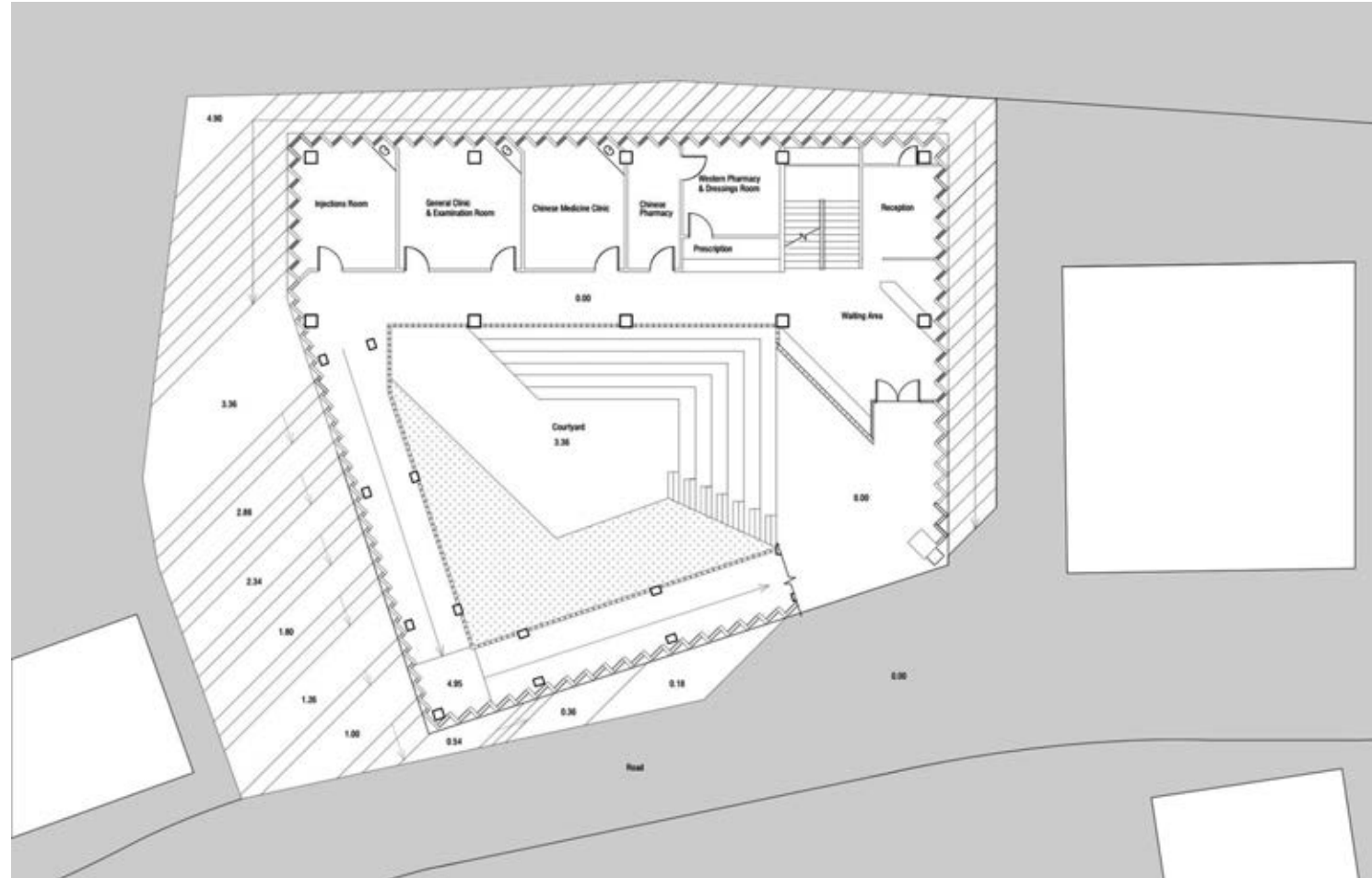
The new hospital was built around the old building. The old building continued to function during construction.



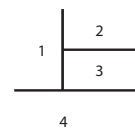
The old building was demolished and replaced by a public courtyard and ramp, allowing patients on wheelchairs to access the upper floors.





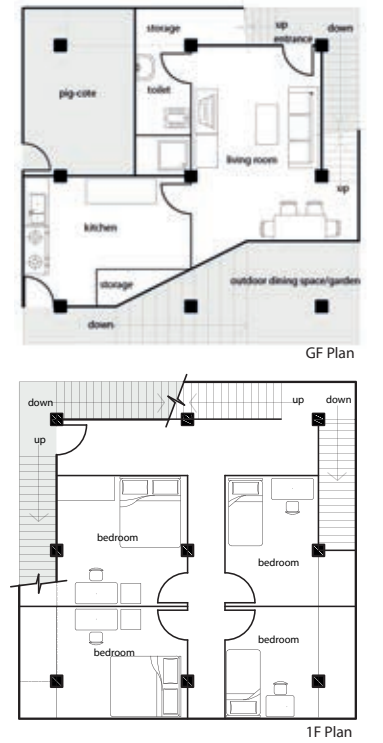
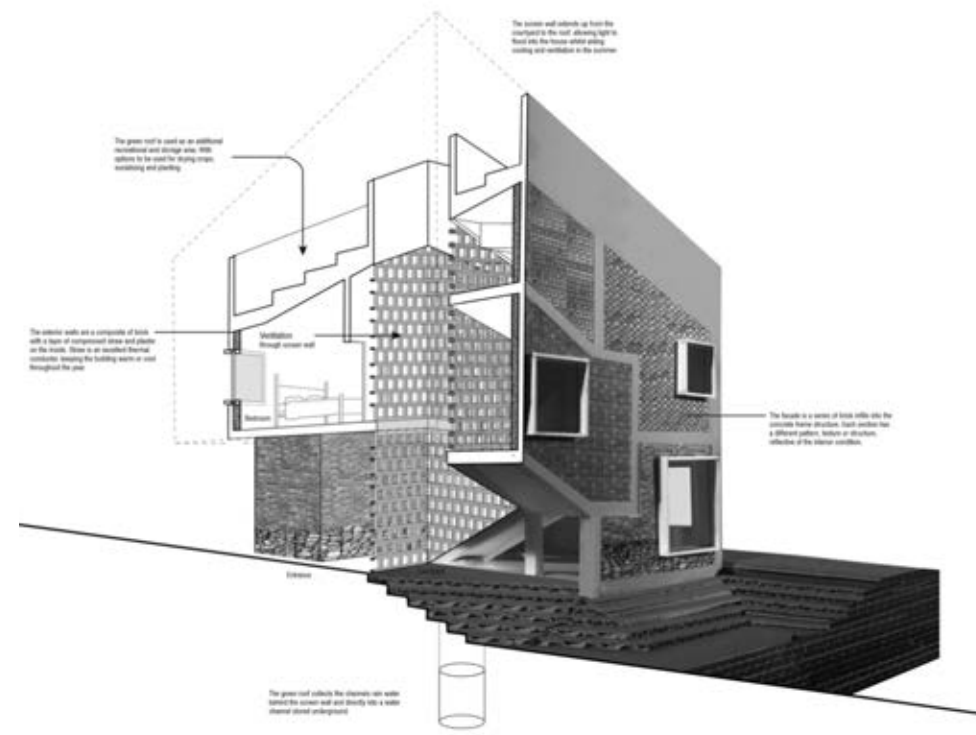
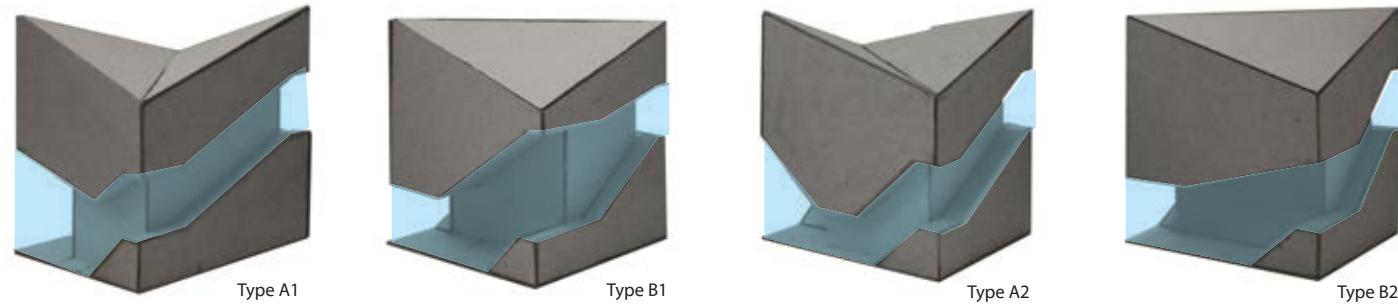


- 1. Concrete modula facade facing courtyard
- 2. Facade shadow effect in corridor space
- 3. Exterior brick facade
- 4. Interior view of wards

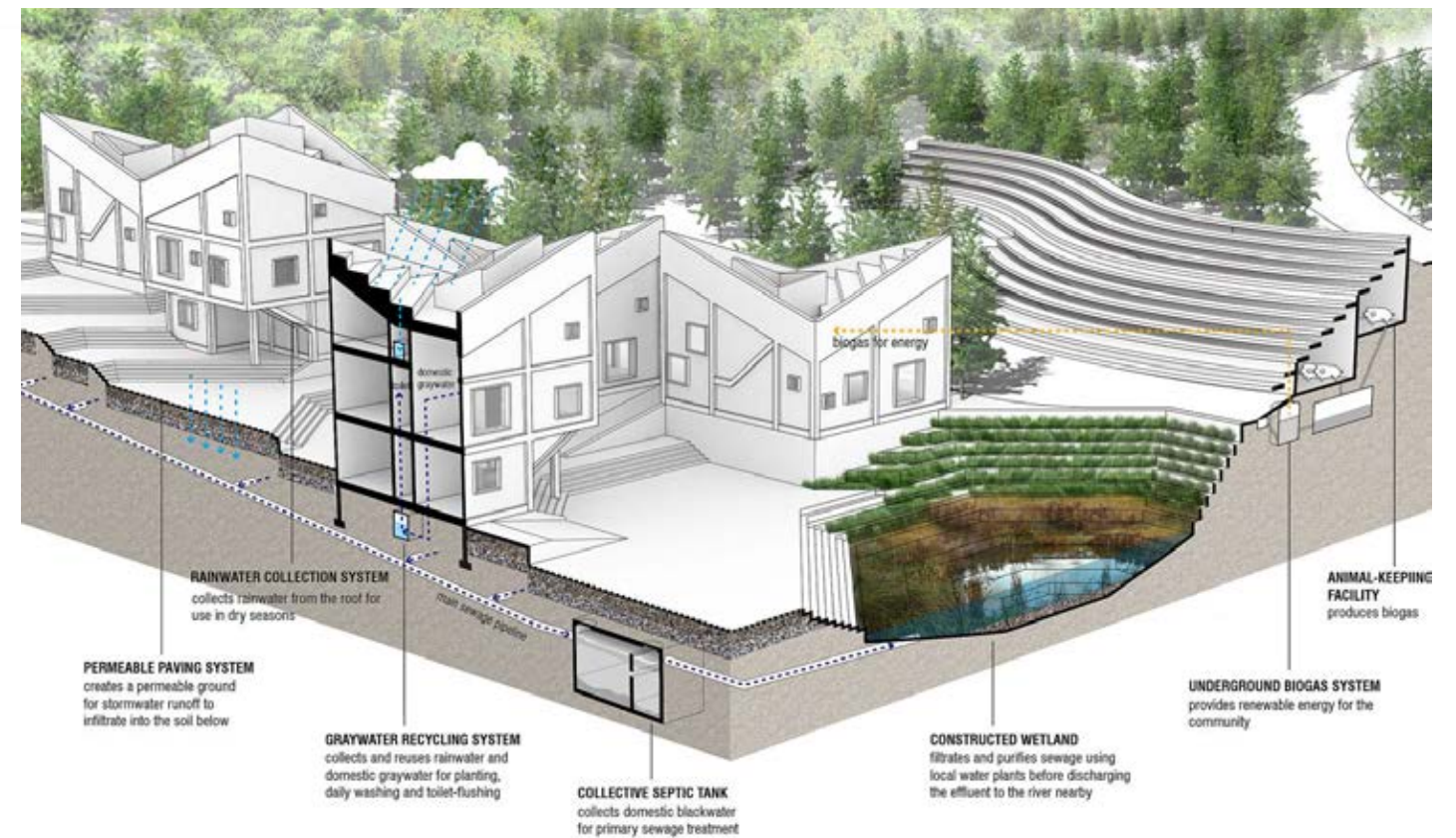


### Jintai Village Post Earthquake Re-construction

Professional work  
Supervisor: John Lin, Joshua Bolchover  
2011 Aug~2013 July  
Rural Urban Framework



Stepped roof merged with the mountainous landscape



# 02

## House for All Seasons

Shijia Village Research & House Prototype

Rural Urban Framework (RUF)

Research Assistant (Core design team member)

Year out experience: 2011.08~2012.07

Supervisor: John Lin, Crystal Kwan(Project manager)

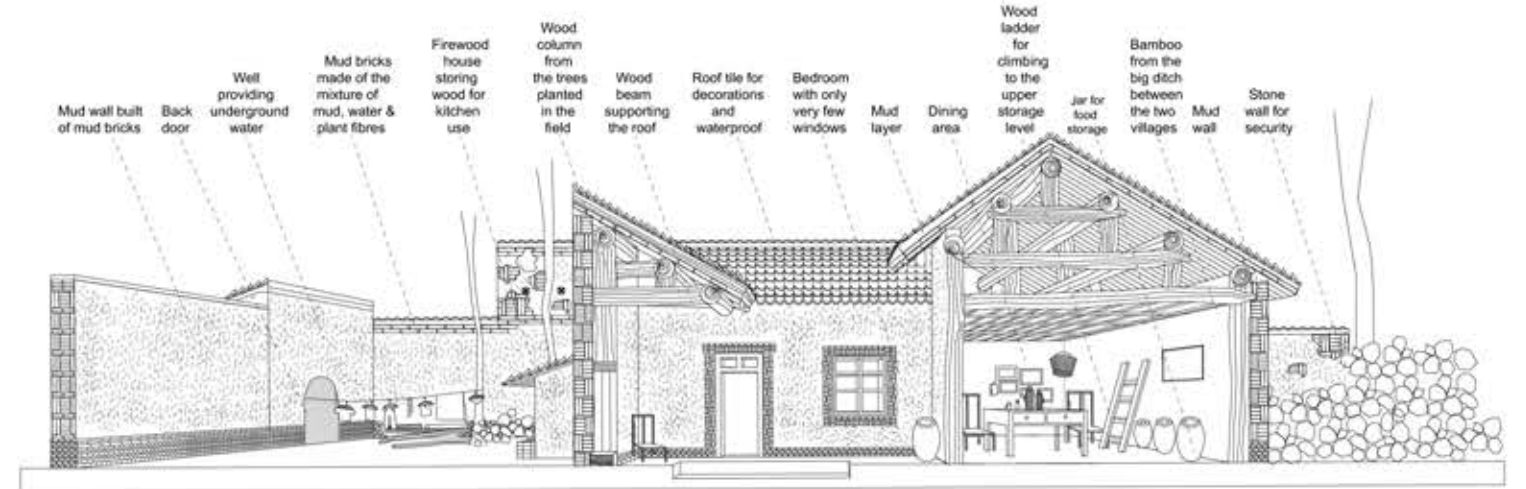
Winner, AR House Award, *Architecture Review* 2012

2nd Place, Project of the Year, European Union and Architecture of Israel

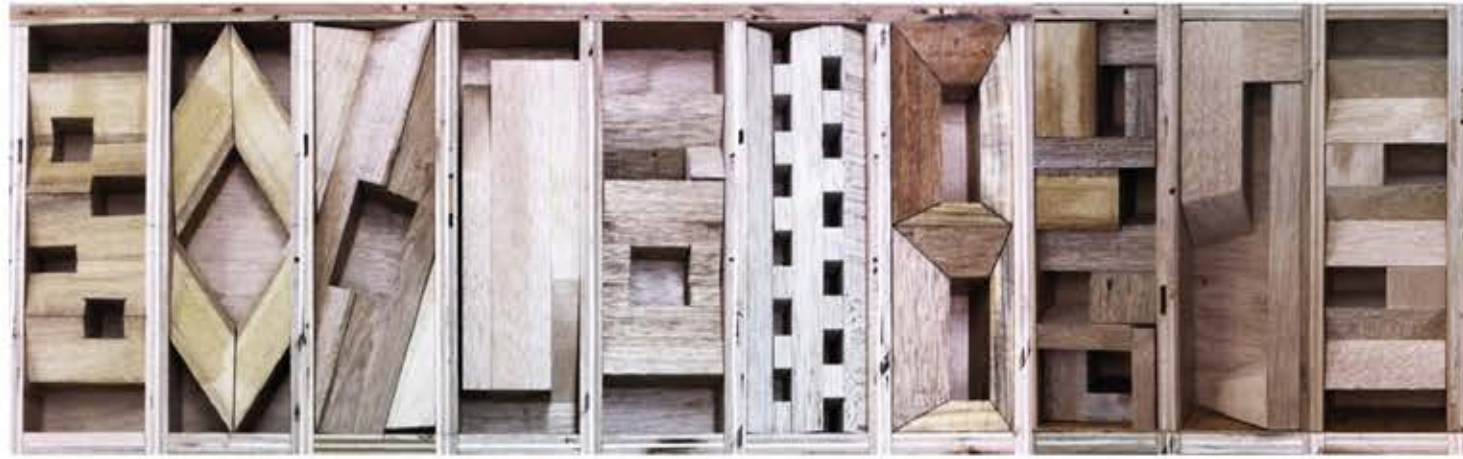
Certificate of Excellence, Perspective Awards, *Perspective Magazine*

Shijia Village is located in the northwestern province of Shaanxi, in a mountainous area near the city of Xian. The project examines the idea of the vernacular village house and proposes an alternative, contemporary prototype. The project promotes a more sustainable alternative with rammed earth, biogas, rainwater storage and reed bed cleansing systems.

All the houses in Shijia Village are originally of mud brick construction and occupy a plot of the same configuration: 10 m x 30 m. Villagers gradually renovate and build upon the courtyard typology, traditional elements fused with new brick and concrete buildings. Apart from the identically defined boundary, no two houses are alike. Each of us (ten students) took one family to carry on a interview and document their houses. Collectively compile a portrait of the modern Chinese village house: a portrait not only of building types but of a lifestyle in transition.



House prototype design: Study models

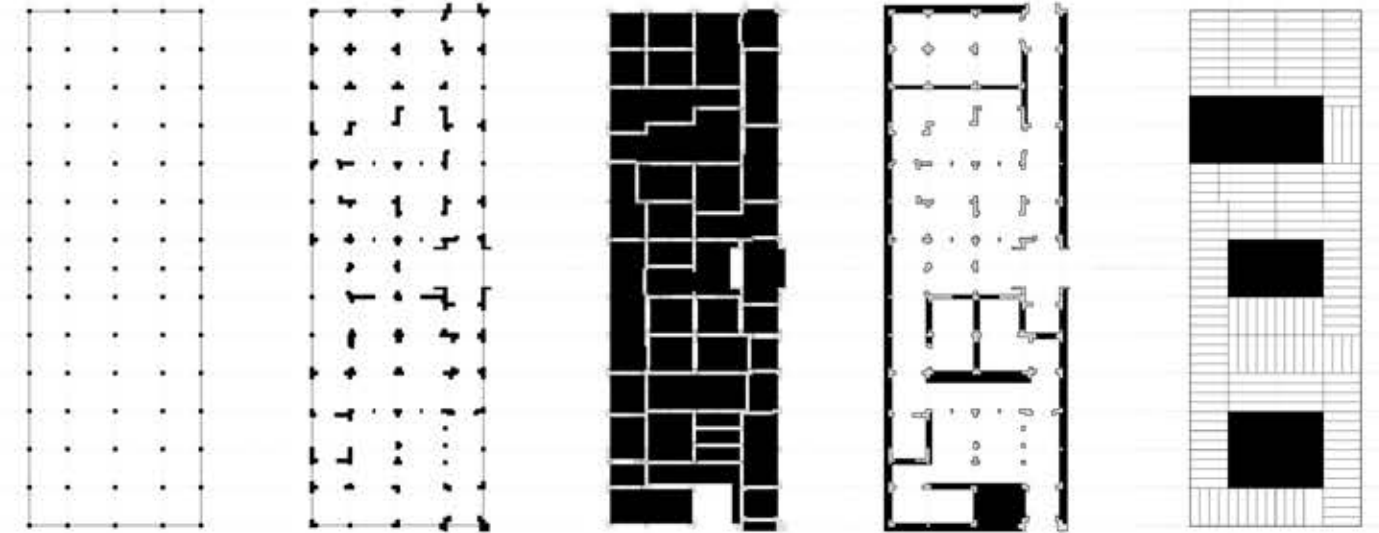


Courtyard Typology Study



Different architecture system

House prototype design: Tectonic study



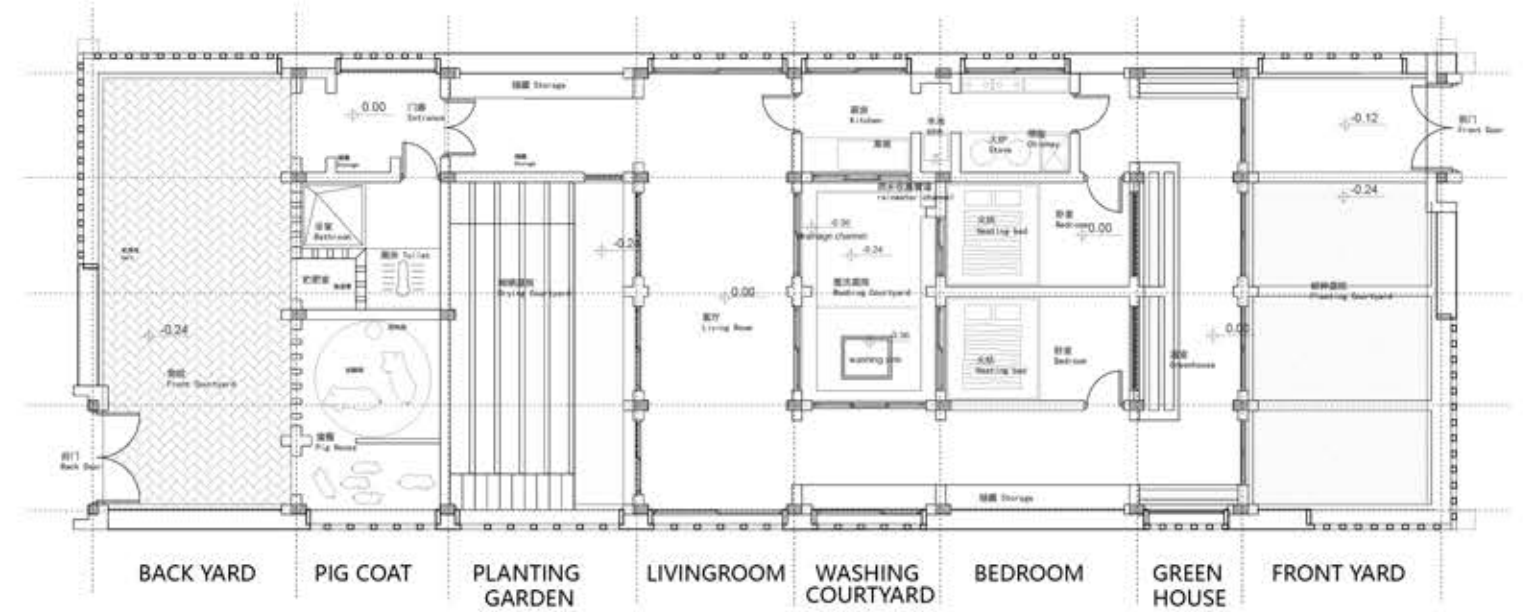
Column Grid

The Column

Ground Paving & Column

Trombe Wall & Column

Roof & Courtyard



BACK YARD

PIG COAT

PLANTING GARDEN

LIVINGROOM

WASHING COURTYARD

BEDROOM

GREEN HOUSE

FRONT YARD

### Eco-system Construction Photos



Construction of the Bio-gas tank in the backyard

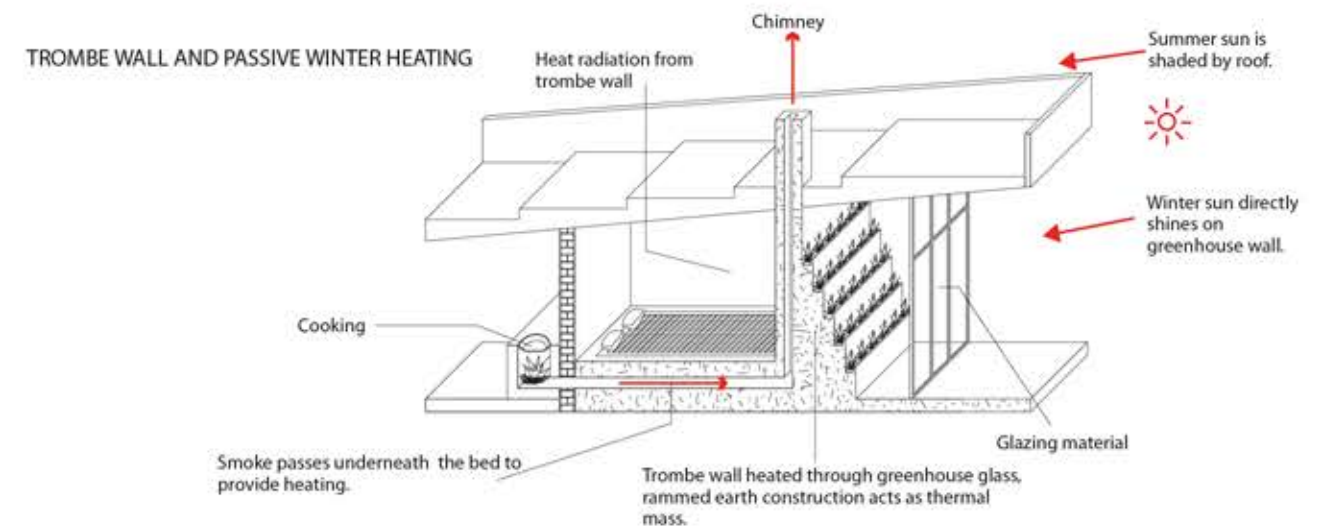
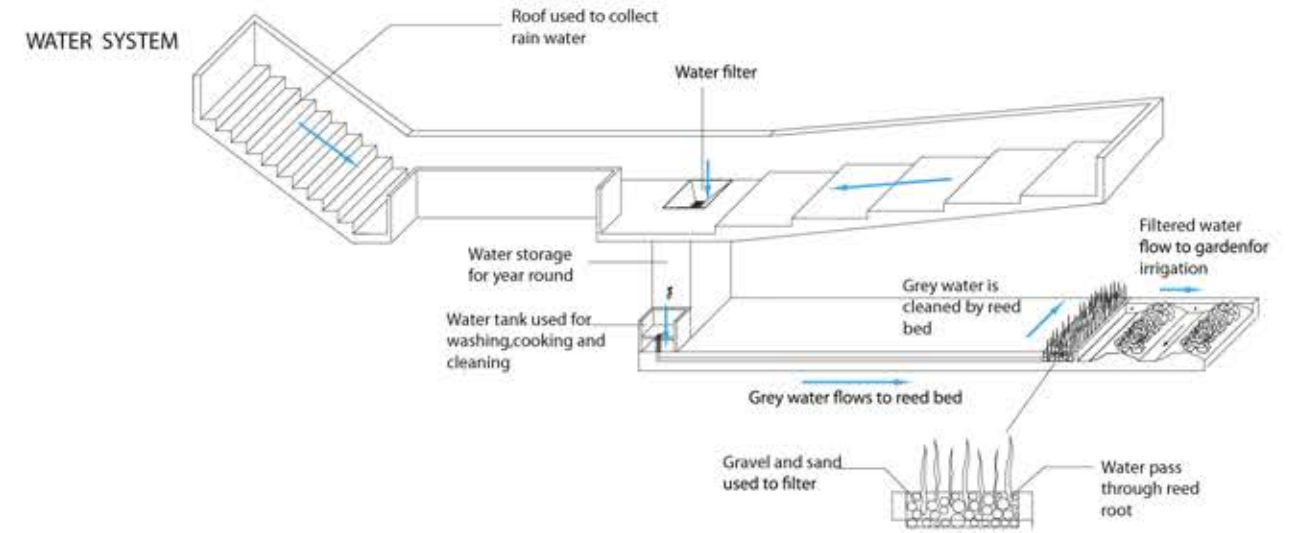
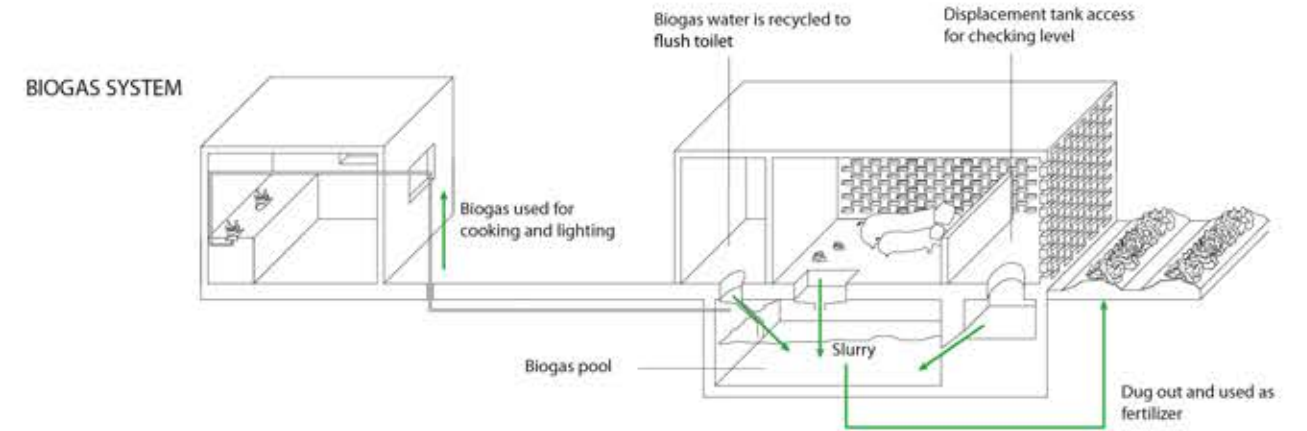


Stepped Roof of the House for Rainwater Collection



Planting Courtyard

### Eco-system inside House



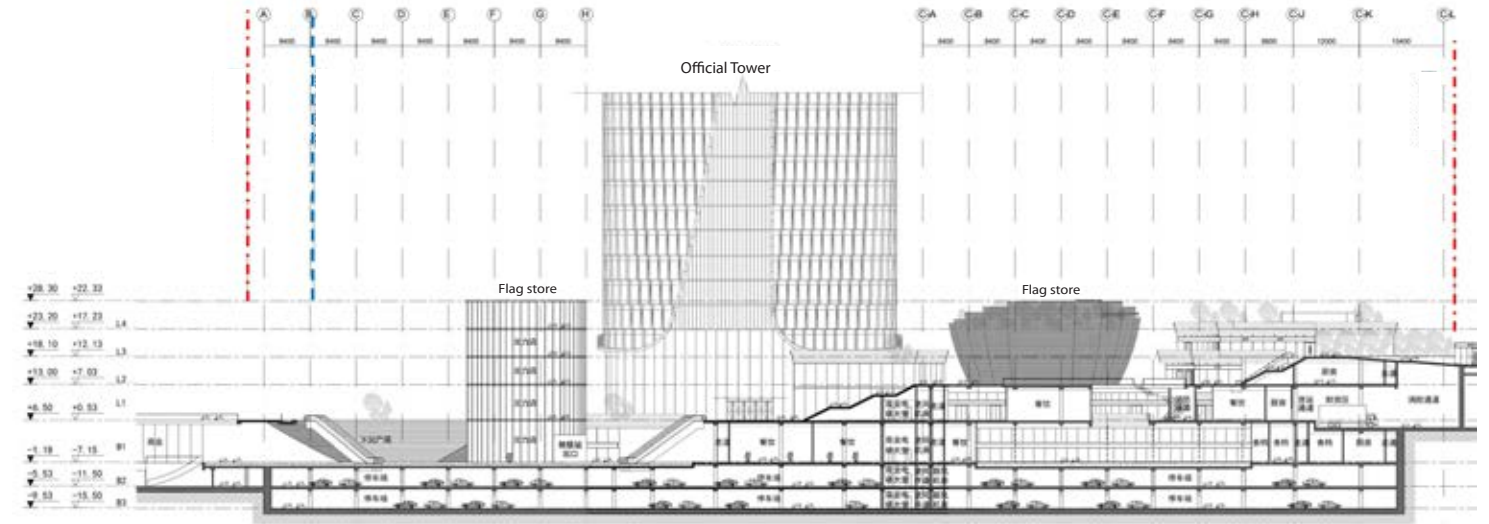
# 03

## Select Works at Leigh & Orange Architects

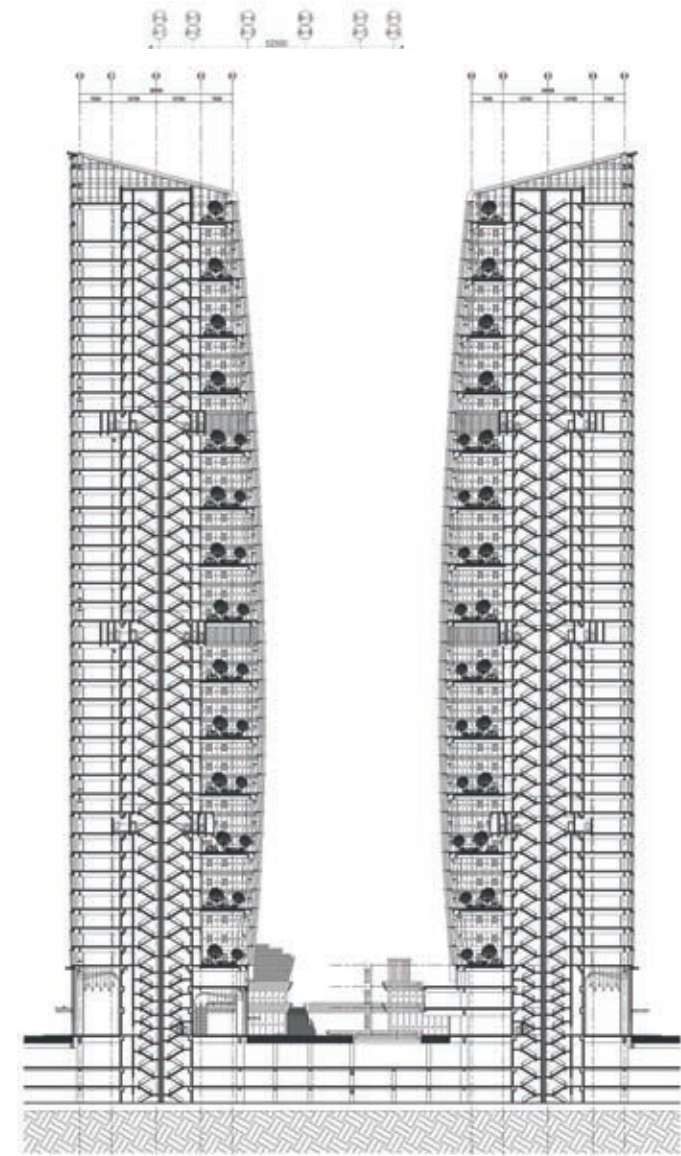
### Shenzhen Qianhai Metro Depot TOD Planning & Design

Professional work  
Under Construction

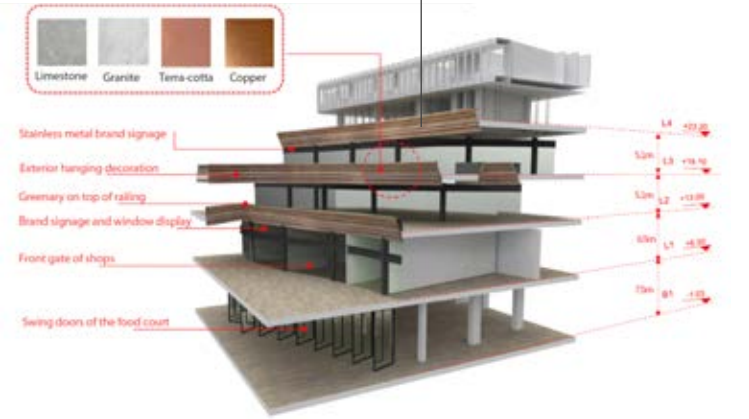
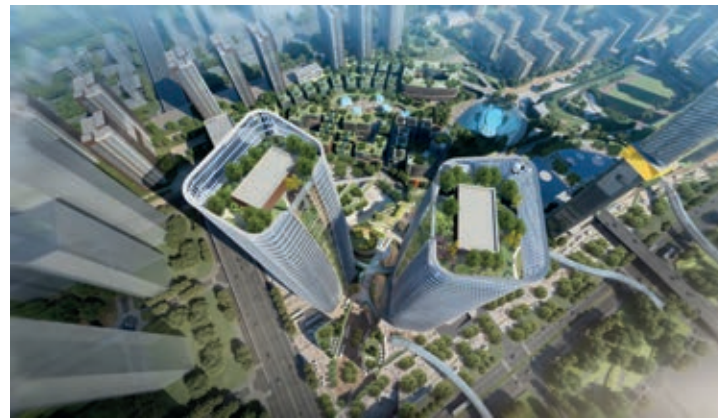
Supervisor: Kelvin Lee, Iris Wong, Summer Zhong  
2018.08~Present  
2014.08~2015.10



Plot 4 Cross section



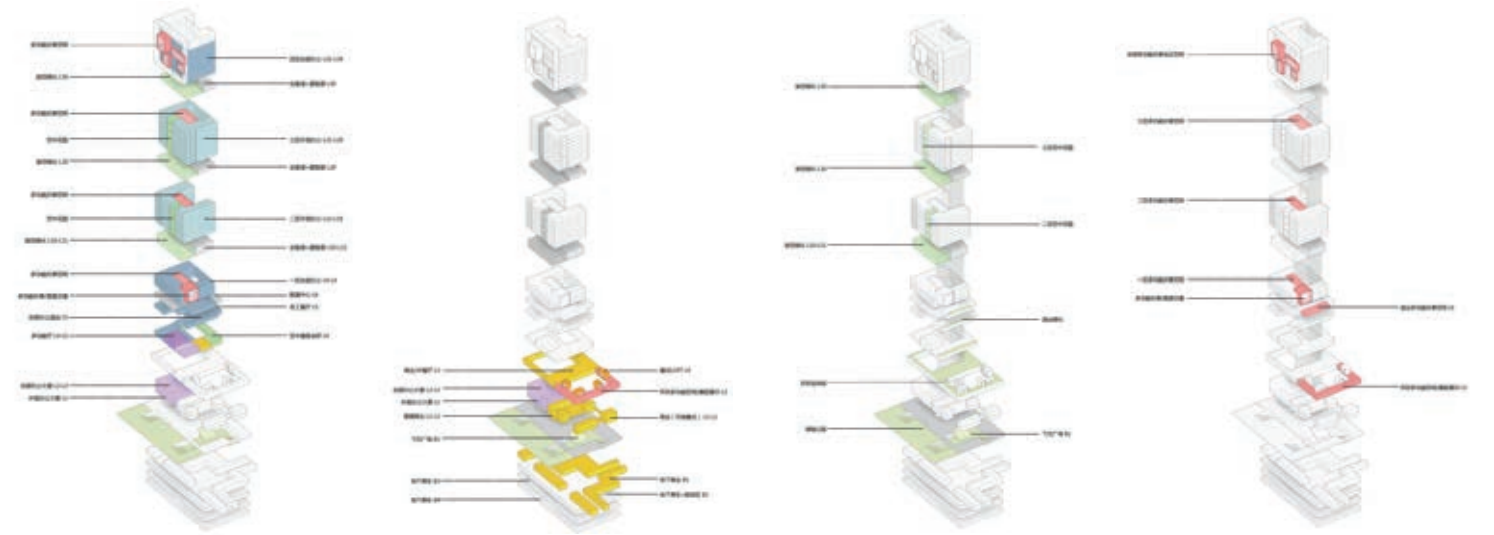
Plot 4 Twin Office Towers



# MUCFC OFFICE TOWER AT SHENZHEN

Professional work  
Competition

Supervisor: Kelvin Li  
2018.11~2019.01

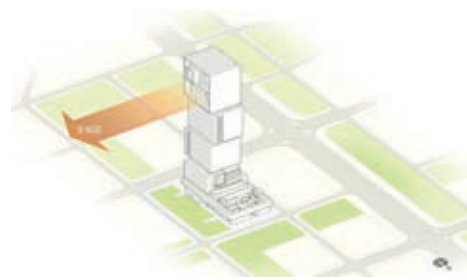


Axonometric Program Diagram



Level 10: Refuge Floor & Sky garden

Level 9: Typical Plan for headquarter use



East side city view



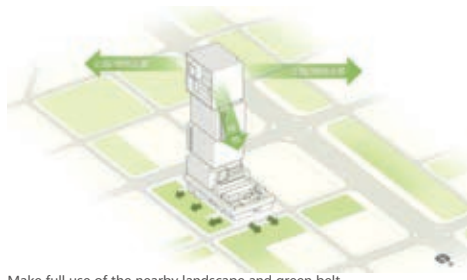
Sea view visual corridor



Retail: Ground Level



The tower is set back from the green belt



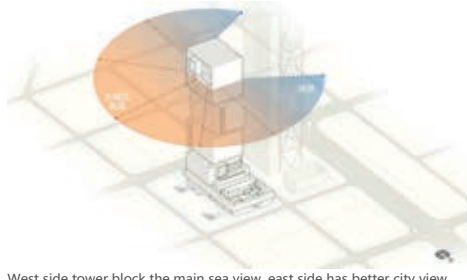
Make full use of the nearby landscape and green belt



Retail: Level 2



Place the core towards the nearby tower side



West side tower block the main sea view, east side has better city view



Retail: Level 3



Connecting the neighbourhood plots with underground tunnel



Connecting the subway with underground commercial



Retail: Level 4



# NCI OFFICE TOWER AT SHENZHEN

Professional work  
Competition

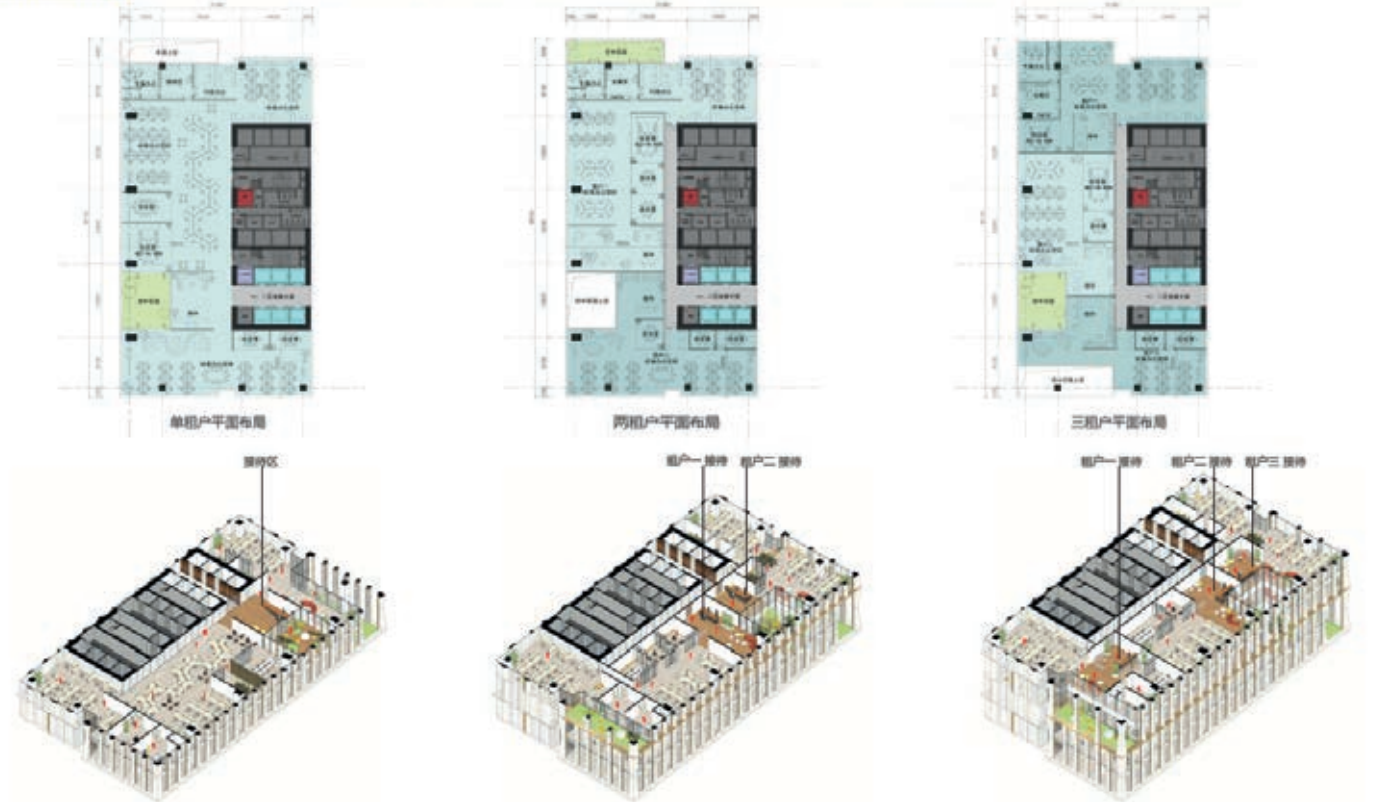
Supervisor: Kelvin Li, Summer Zhong  
2019.01~2019.02



## Podium & The Arrival Experience



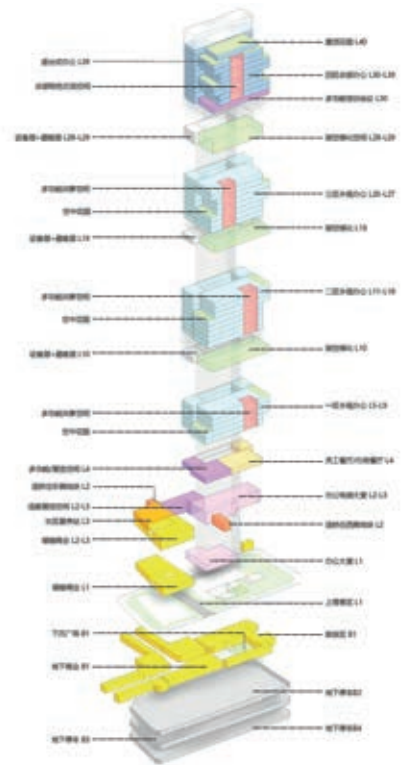
The tower core are located by the east side facing the nearby high tower, allowing big open and flexible plan layout.



## Tenants & Flexible Layout



## Axonometric Program Diagram

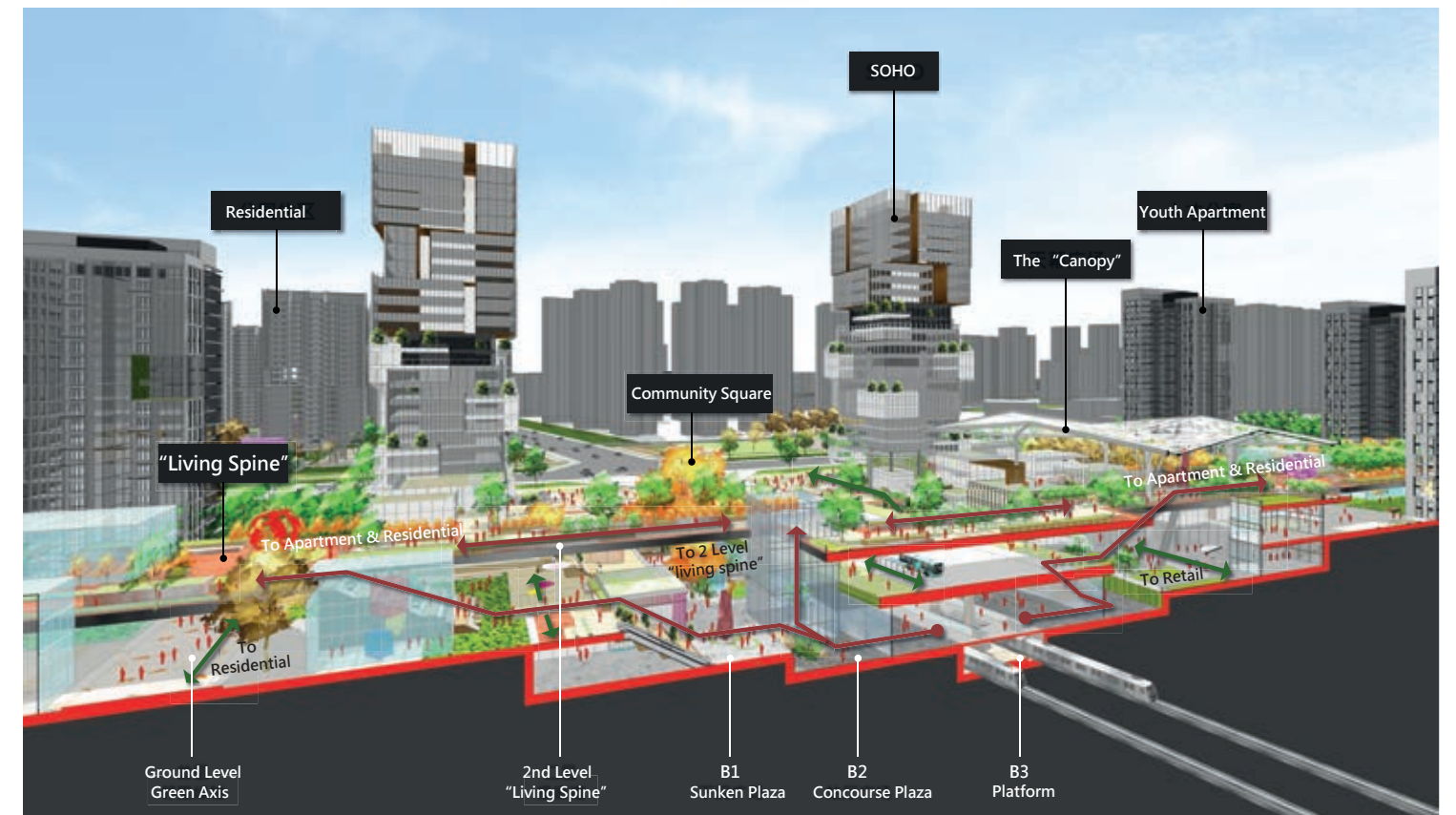
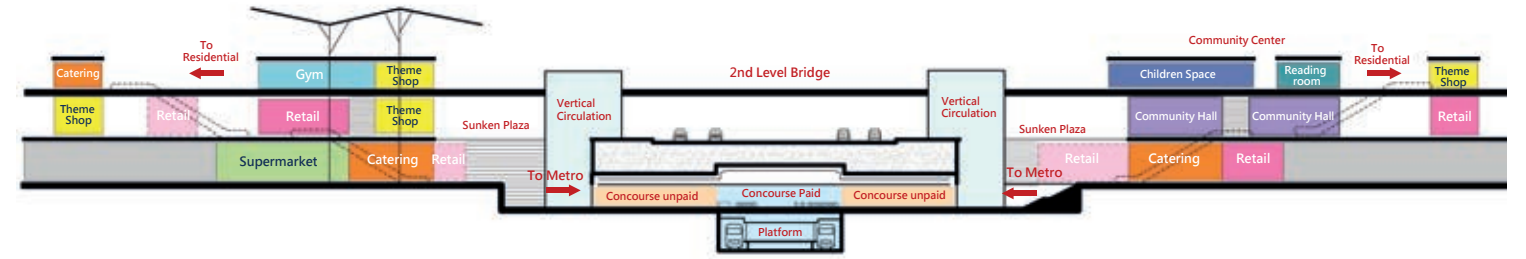
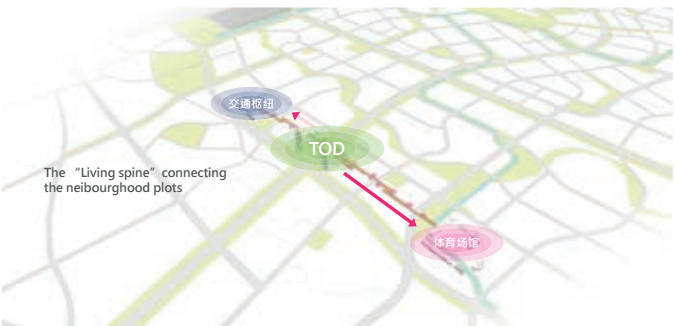
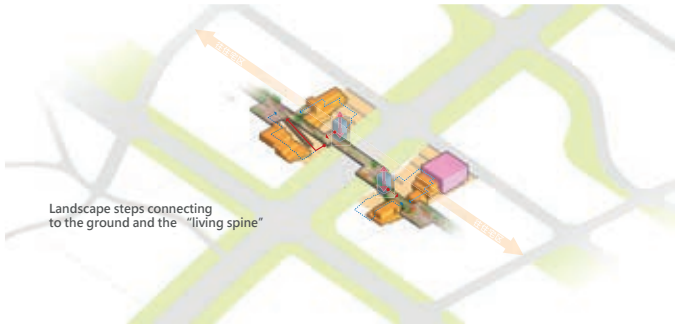
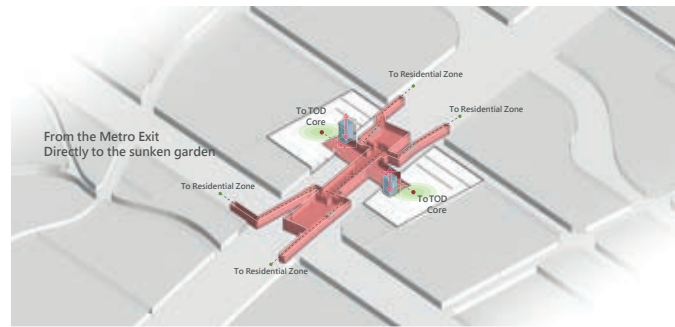




# Wanan TOD Planning

Professional work  
Competition

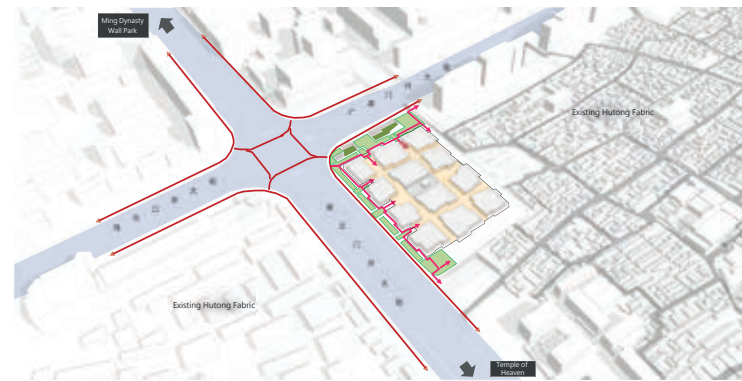
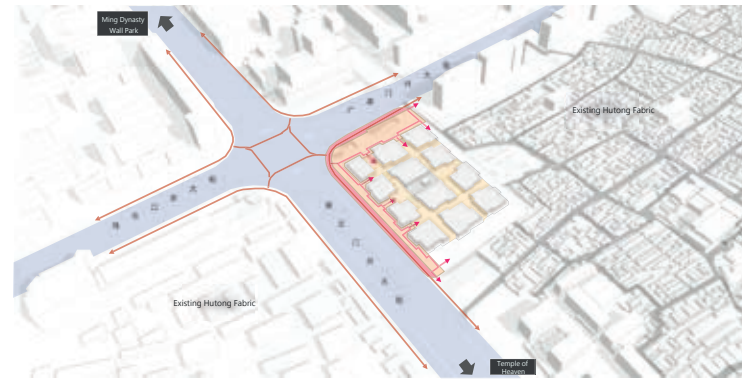
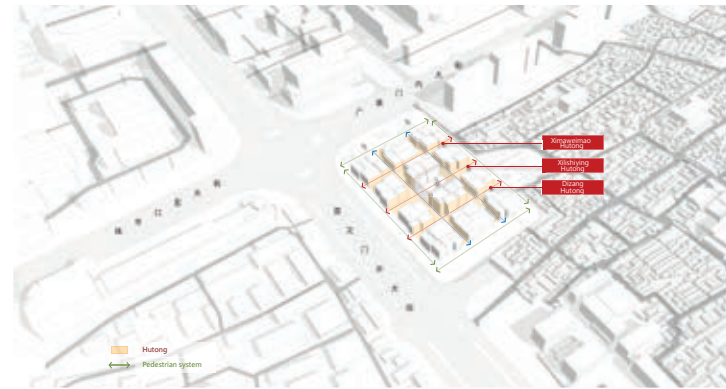
Supervisor: Kelvin Li, Summer Zhong  
2019.06~2019.07



# Beijing K11 Art Mall

Professional work  
In permit process

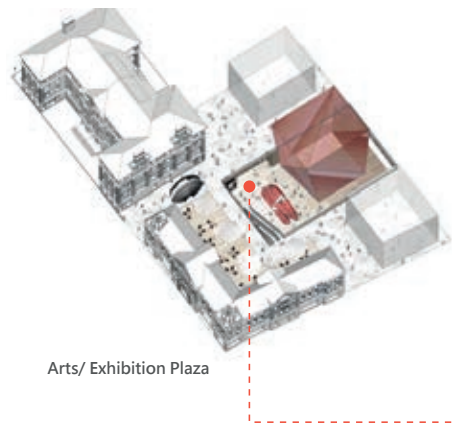
Supervisor: Kelvin Li, Summer Zhong  
2018.10~2019.07



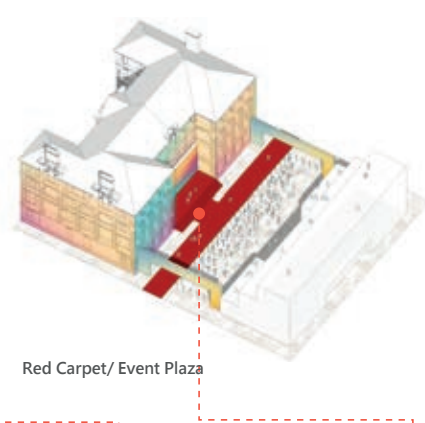
# Shanghai K11 Art Mall

Professional work  
In Permit Process

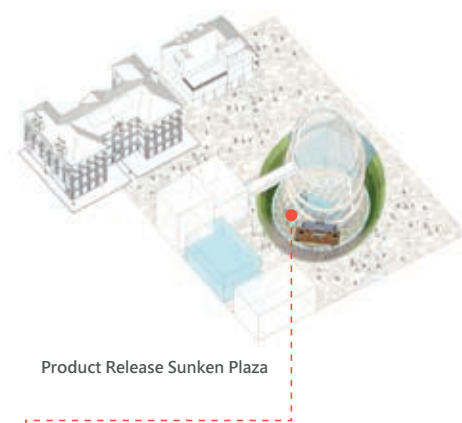
Supervisor: Kelvin Li, Summer Zhong  
2019.04~2019.06



Arts/ Exhibition Plaza



Red Carpet/ Event Plaza



Product Release Sunken Plaza

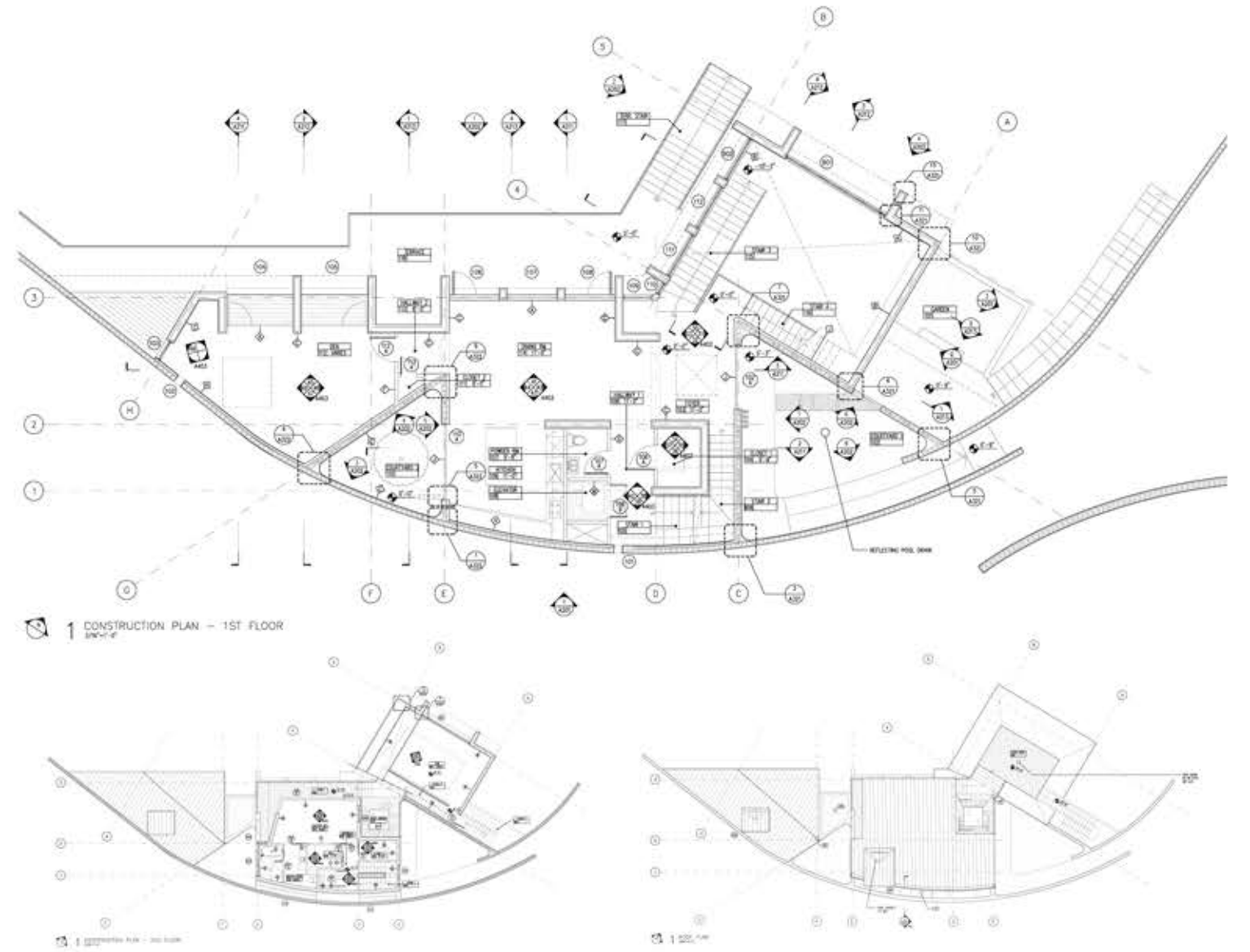
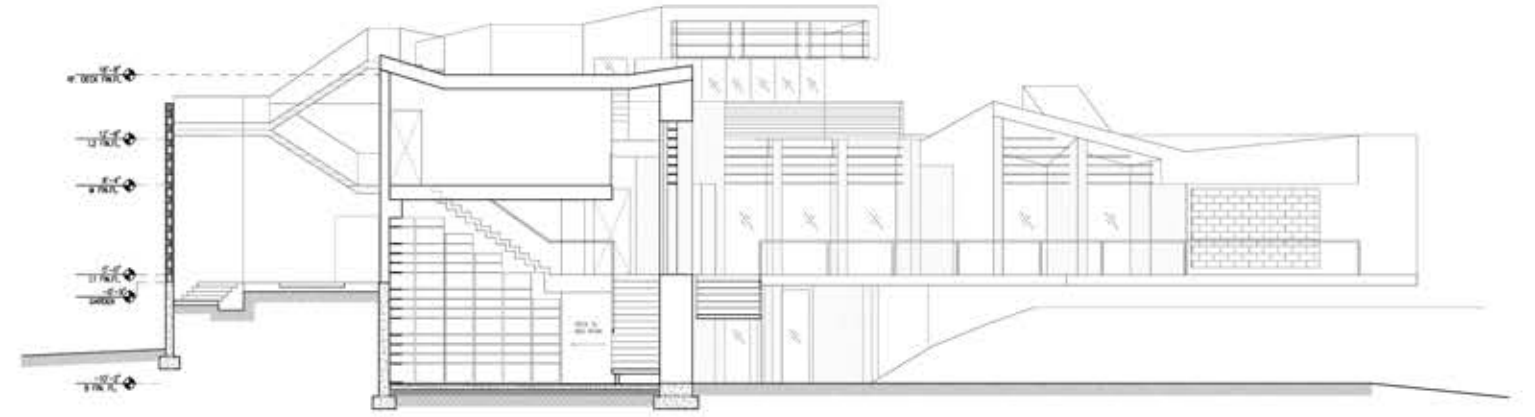
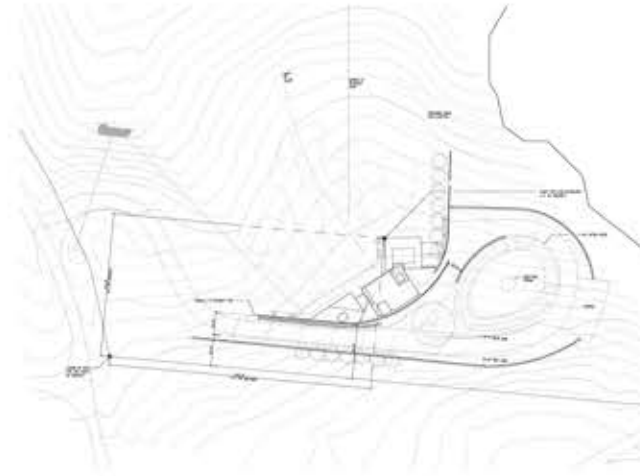


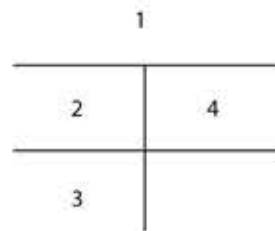
# 04

## Works in D Y Architects

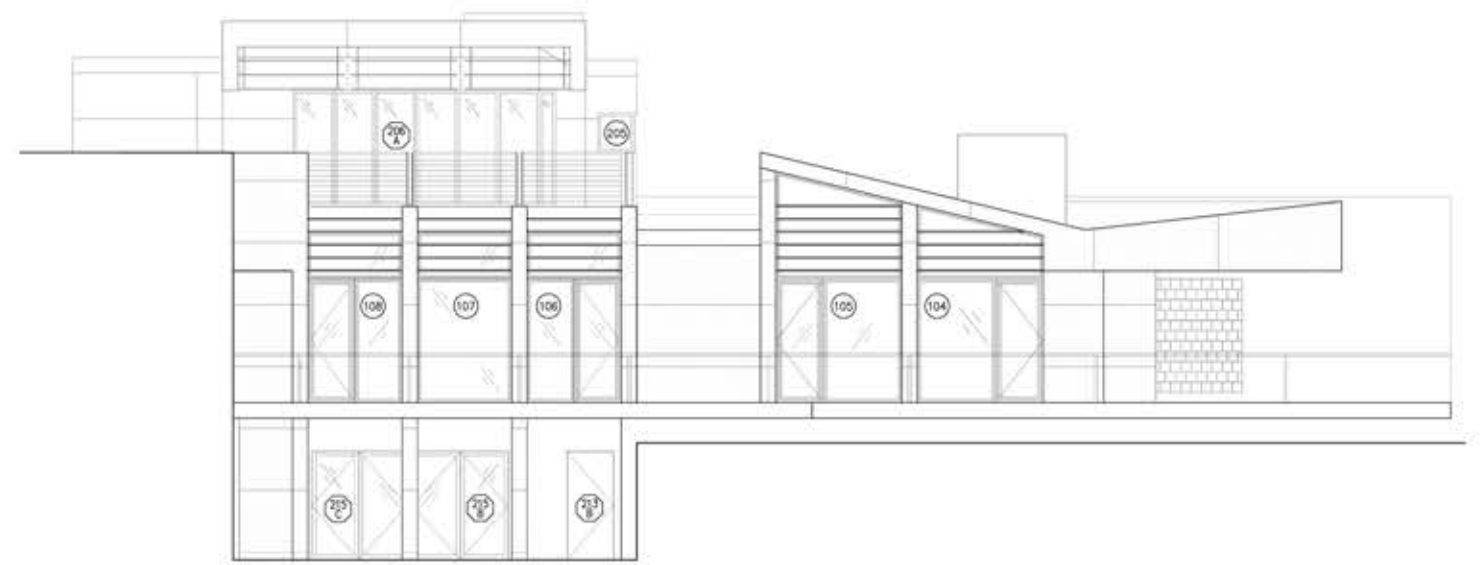
Lazar Residence — Musician's House

Professional work  
Supervisor: David Yum  
2017 Sep~2018 Jul

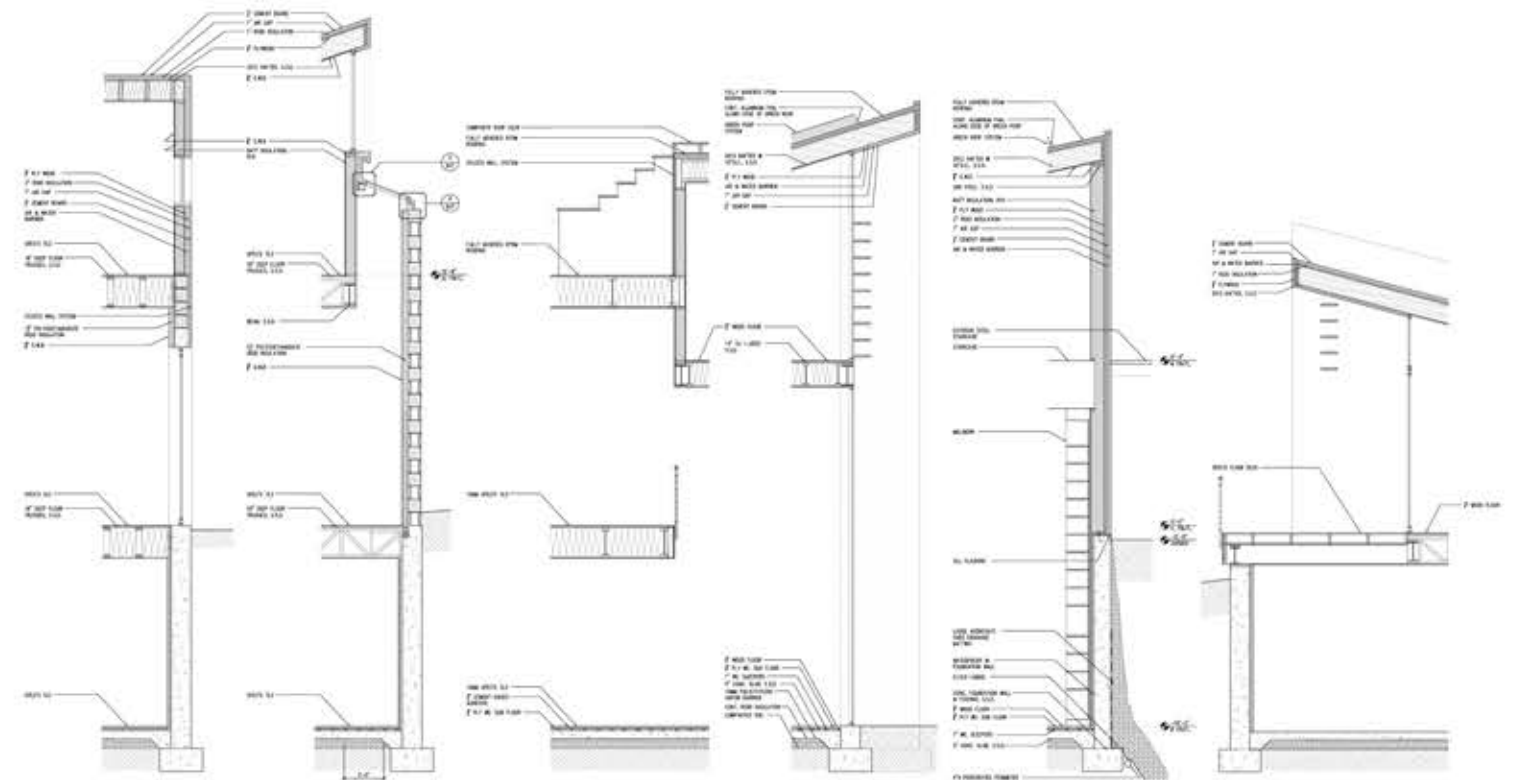




- 1, Music Room & library
- 2, Bird view of whole house
- 3, Side view of Front facade
- 4, Skylight & vestibule



Exterior Elevation--- North-East Facade



Critical Wall Sections

### Works in D Y Architects

Hosack Residence — Historical House Alteration & Addition

Professional work  
Supervisor: David Yum  
2017 Sep~2018 Jul

