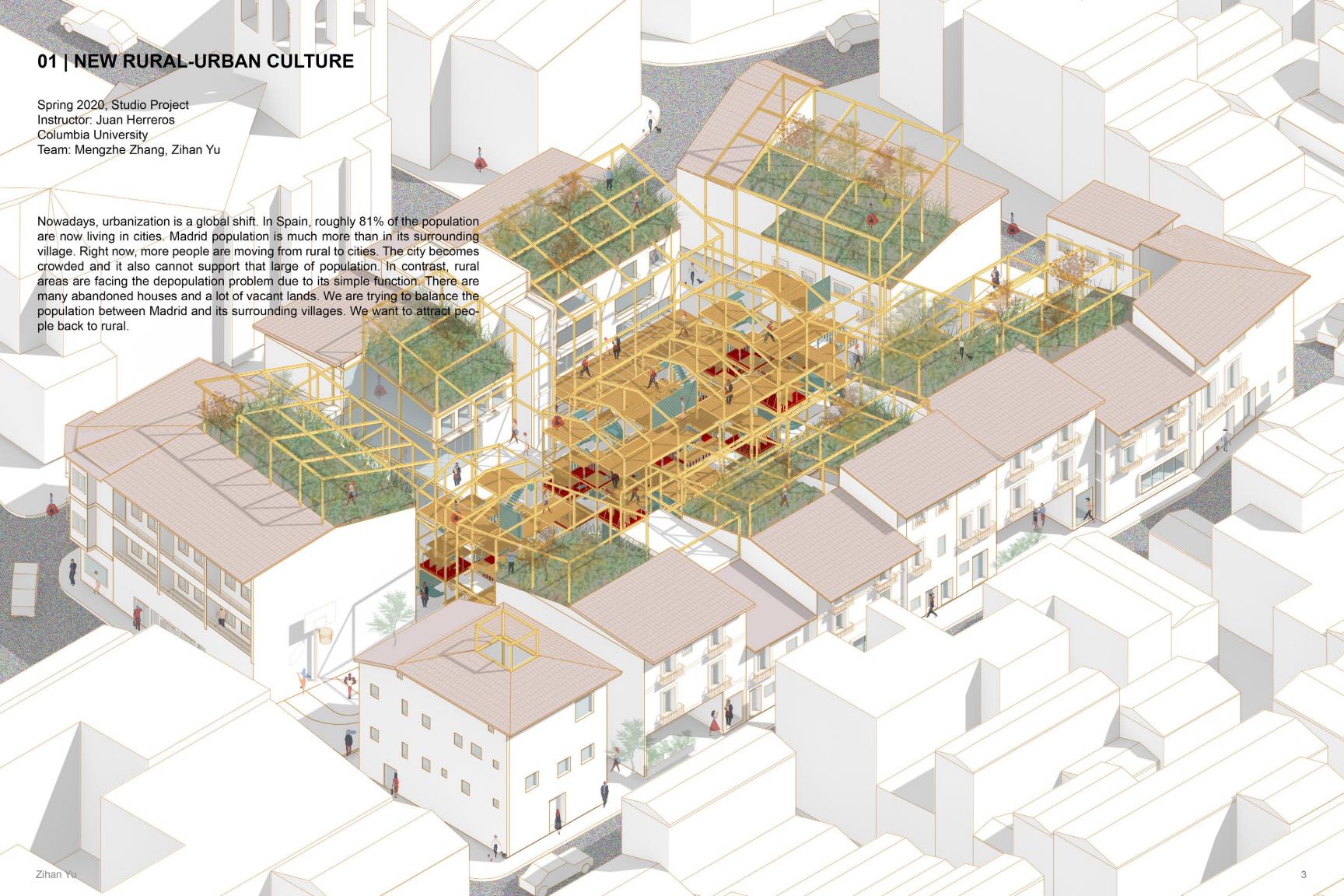
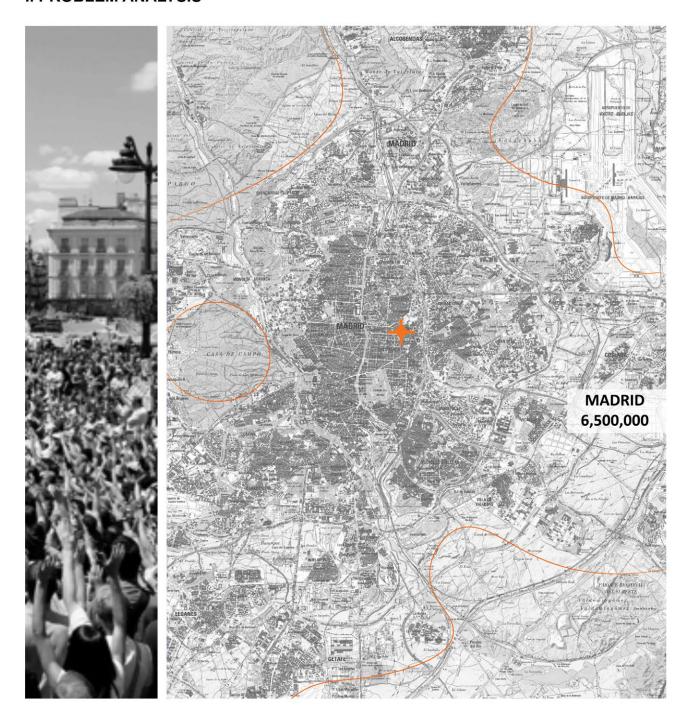
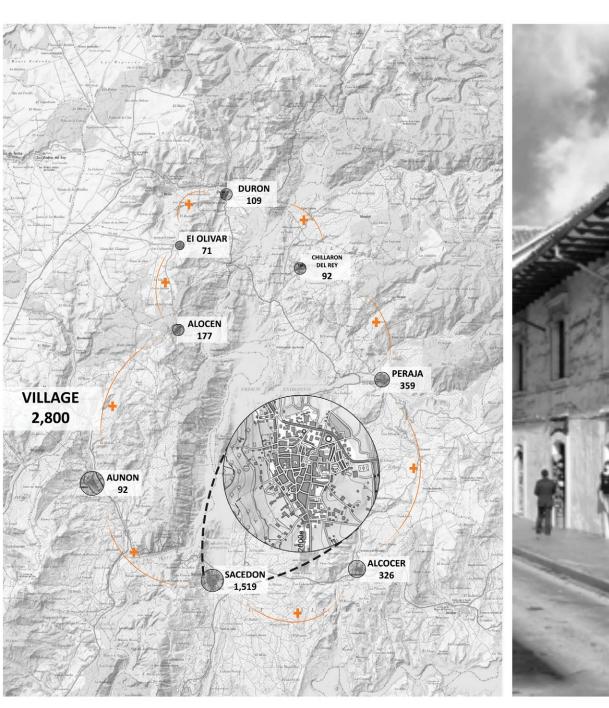
Portfolio of Zihan Yu

M.S. Advanced Architecture Design Columbia University



I. PROBLEM ANALYSIS



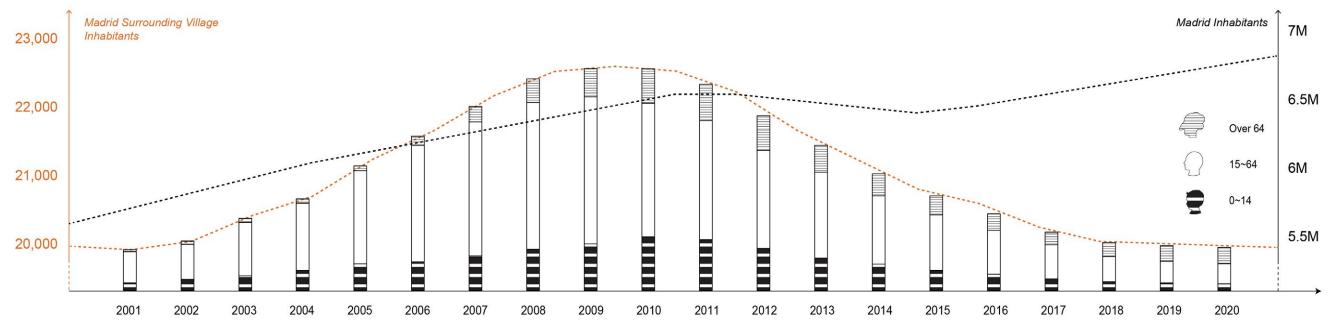


Unemployment in the Contry

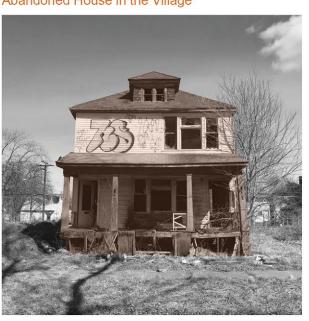


Crowded City





Abandoned House in the Village



II. SITE ANALYSIS



We chose Sacedon as our site since among most of the villages near the Tagus River, it has a typical Spanish village layout and the population size is proper to work with. It is a place full of residential buildings and a few public buildings. Inside the village, we chose the area which is highlighted in color for further development.

The block as a traditional village block, has residential houses at sides and a vacand space in the center.

There are one small restaurant nearby the selected block.

tel in the village. for the inhabitants. There is one public plaza which is the community space for the village inhabitants.

It is the only ho- The only City Hall provide services

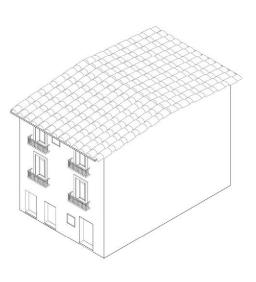
The Church is next to the public plaza and provide social connections for inhabitants.

Same as many rural villages, Sacedon also has a abandoned Bullring

III. CONCEPTUAL DRAWING

IV. DEVELOPMENT STRATERGY



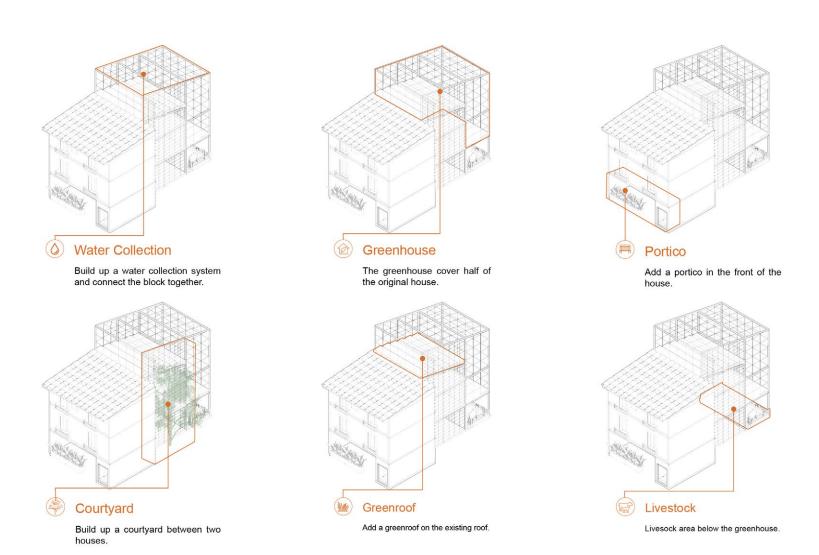


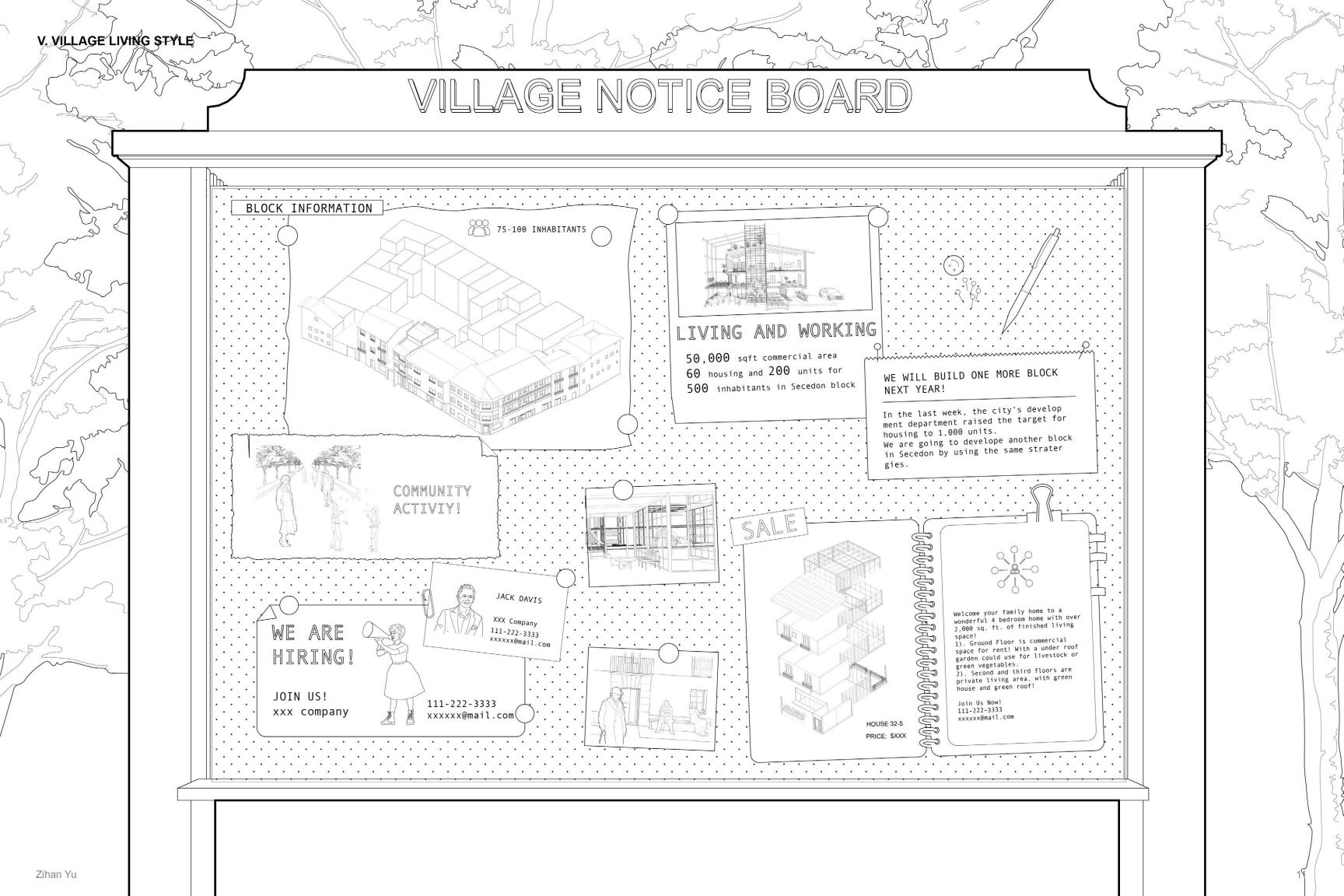


ORIGINAL LOCAL HOUSE

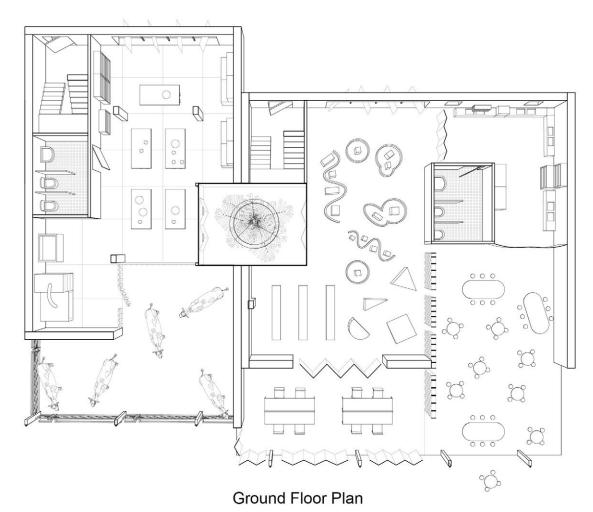
RECONSTRUCTED HOUSE

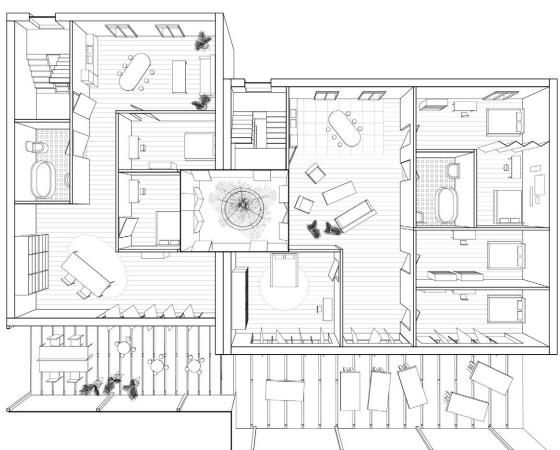
The existing house has a current neighborhood connection and beautiful traditional facade that we like to keep, but the building just has a single function. So, our developing strategies are adding a courtyard, roof garden, greenhouse, livestock area, and water collection.





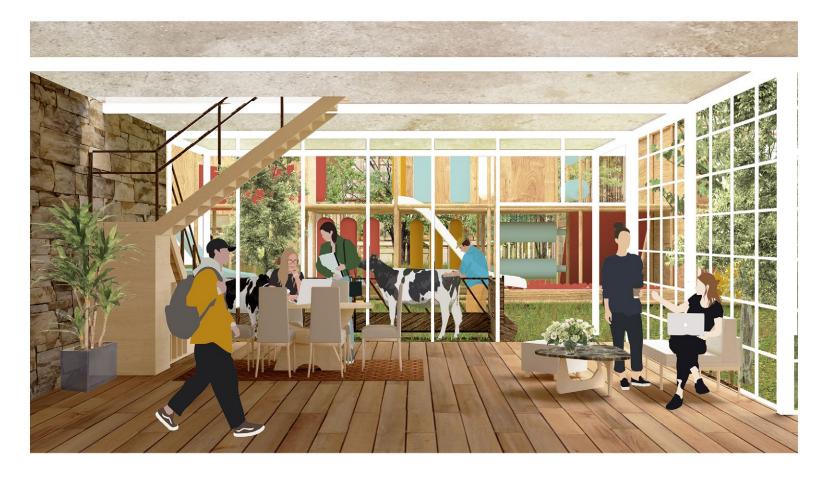
VI. HOUSE'S FLOOR PLAN





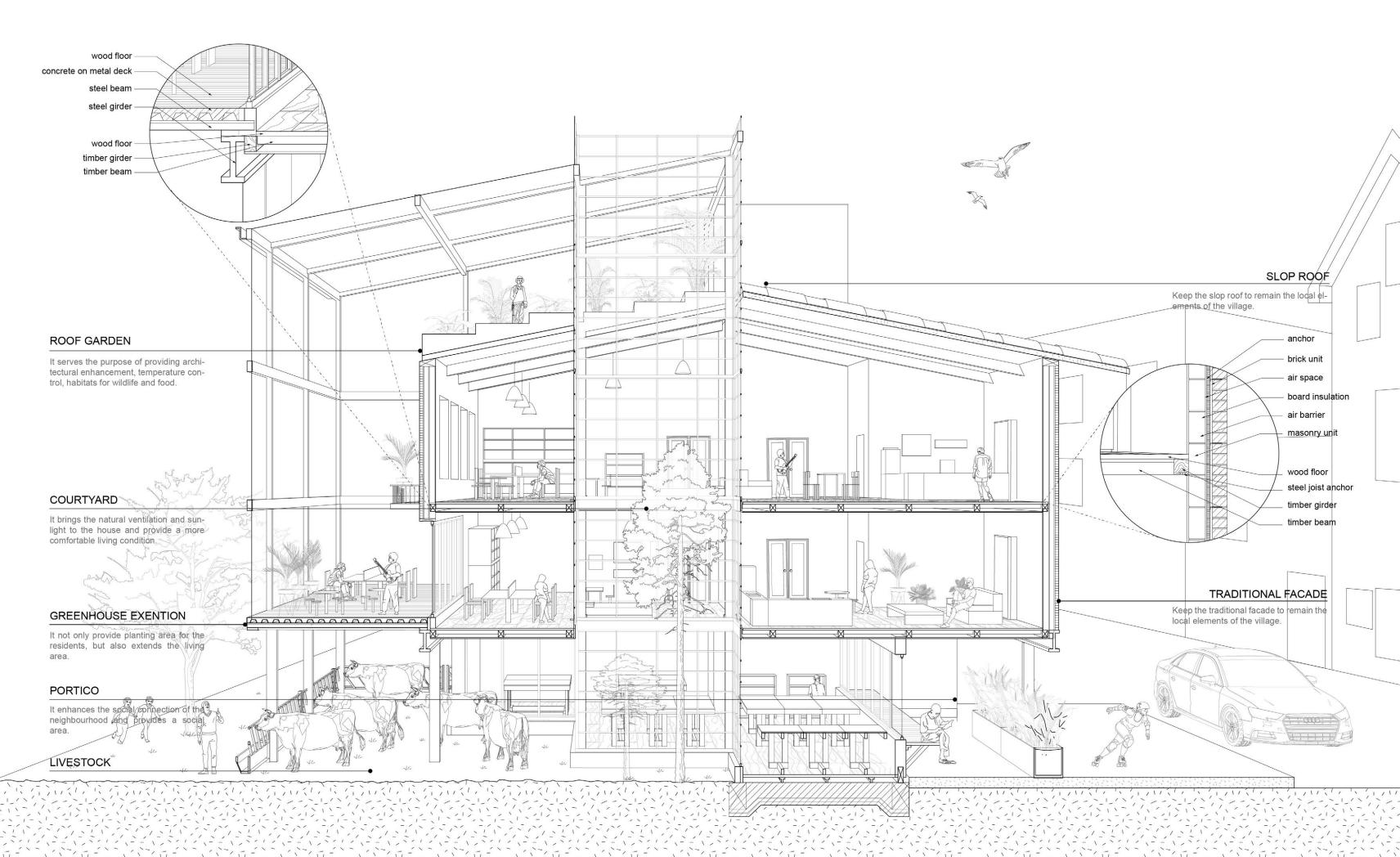
Second Floor Plan

VII. HOUSE RENDERINGS



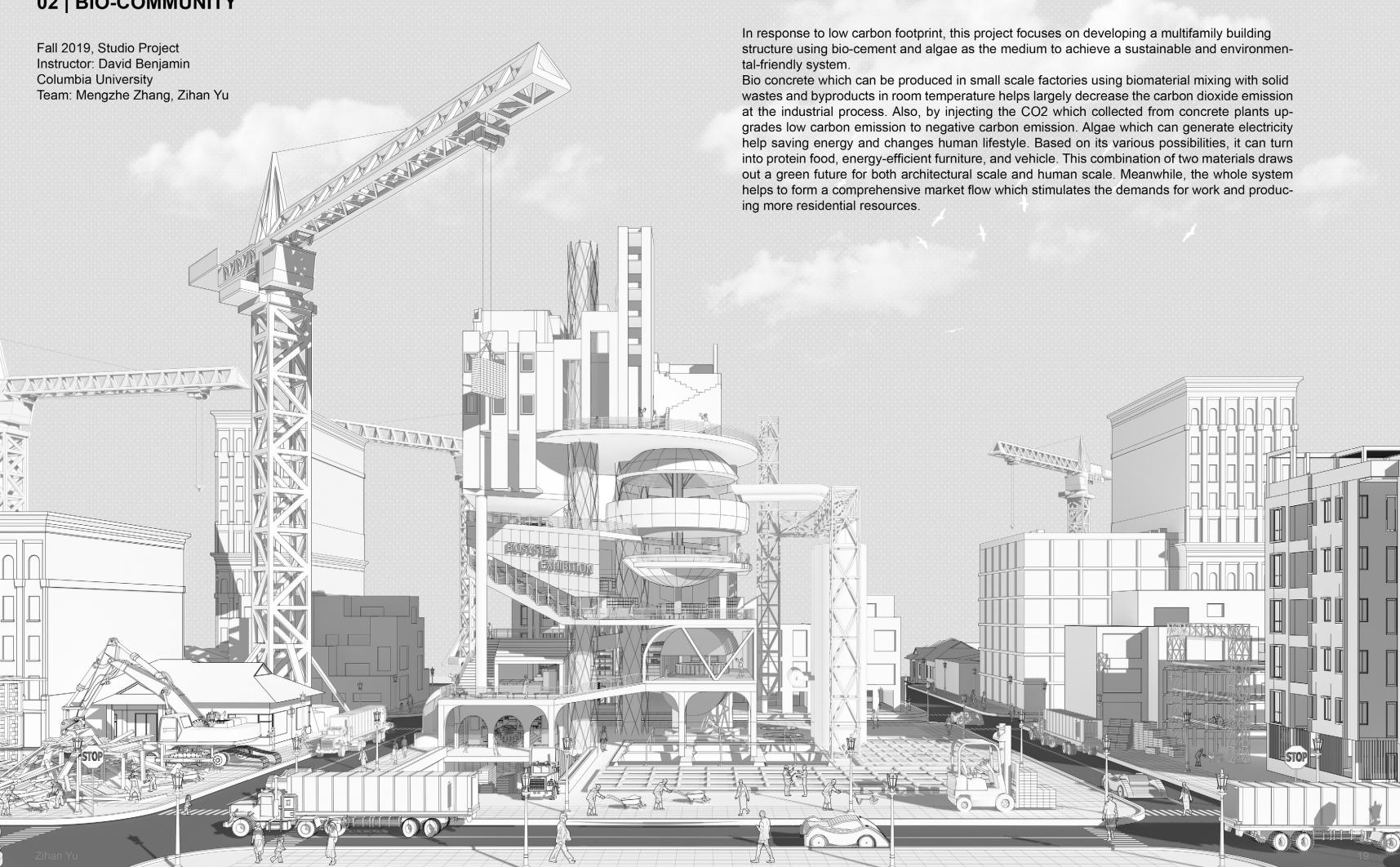


VIII. HOUSE SECTION

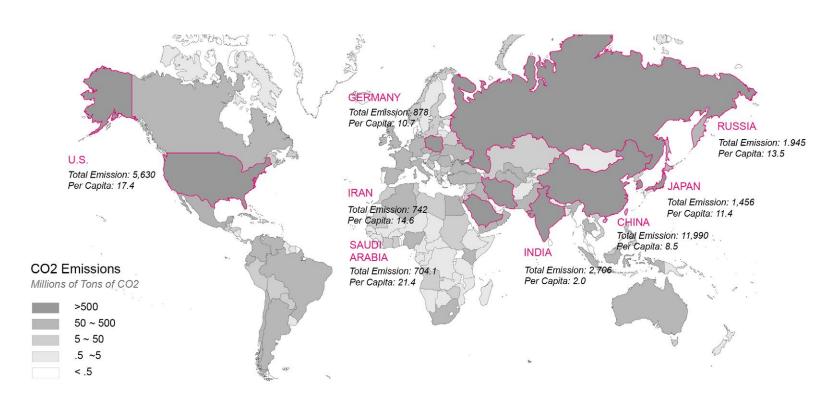




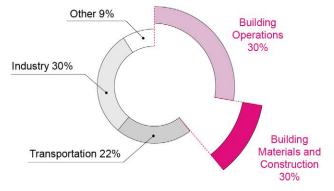
02 | BIO-COMMUNITY



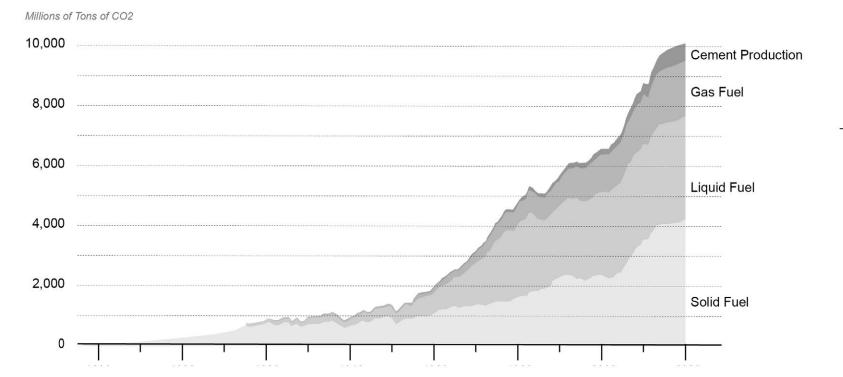
II. BUILDING CARBON EMISSIONS

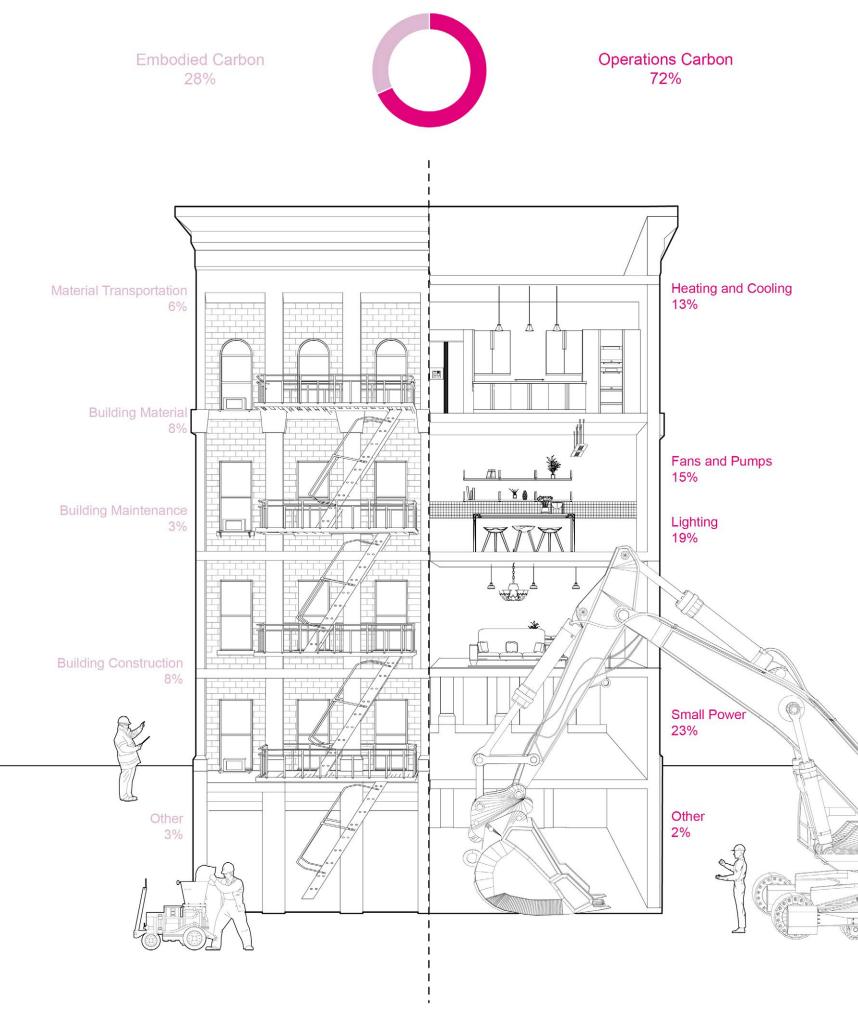


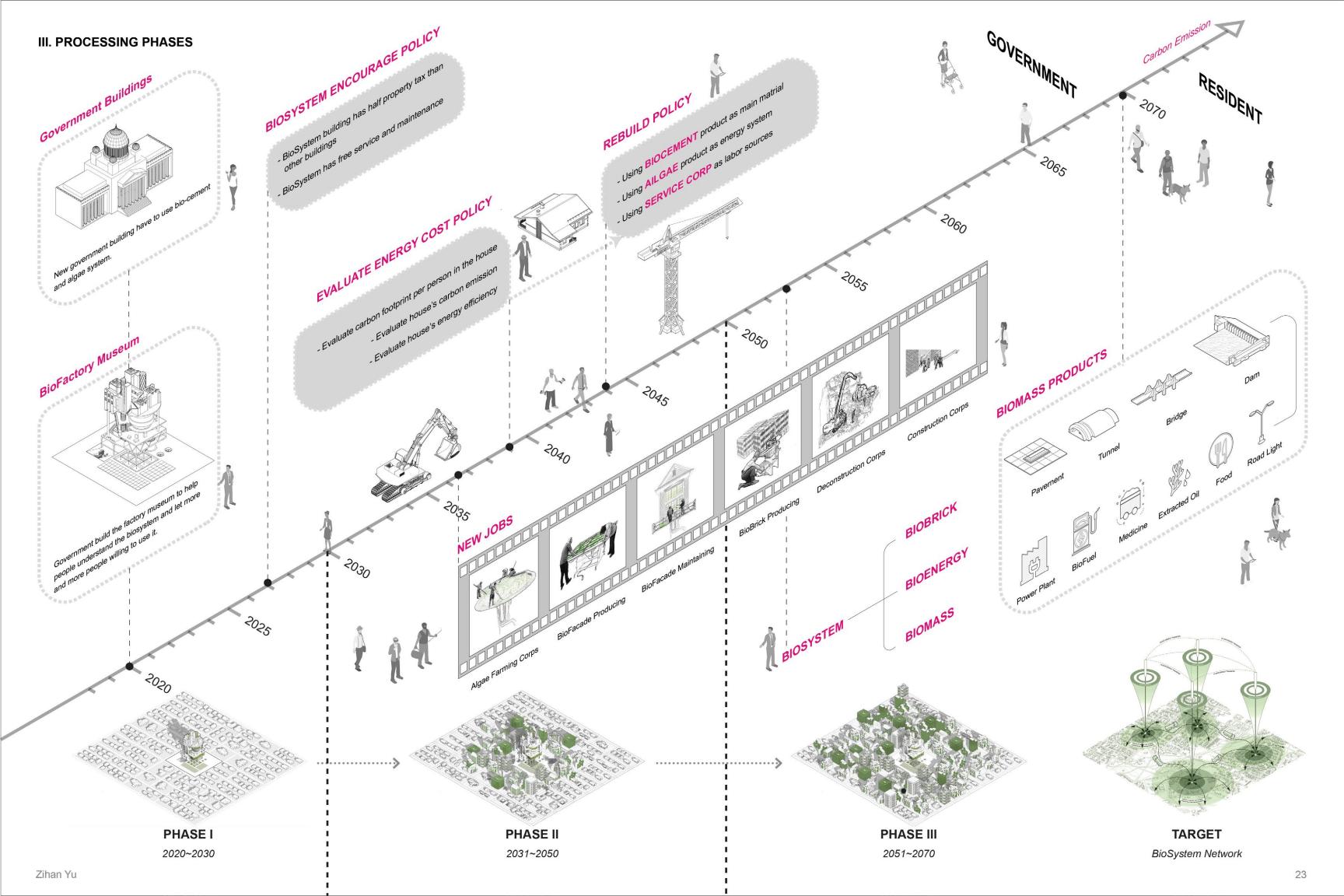
Greenhouse gases have far-ranging environmental and health effects. They cause climate change by trapping heat, and they also contribute to respiratory disease from smog and air pollution. Extreme weather, food supply disruptions, and increased wildfires are other effects of climate change caused by greenhouse gases.



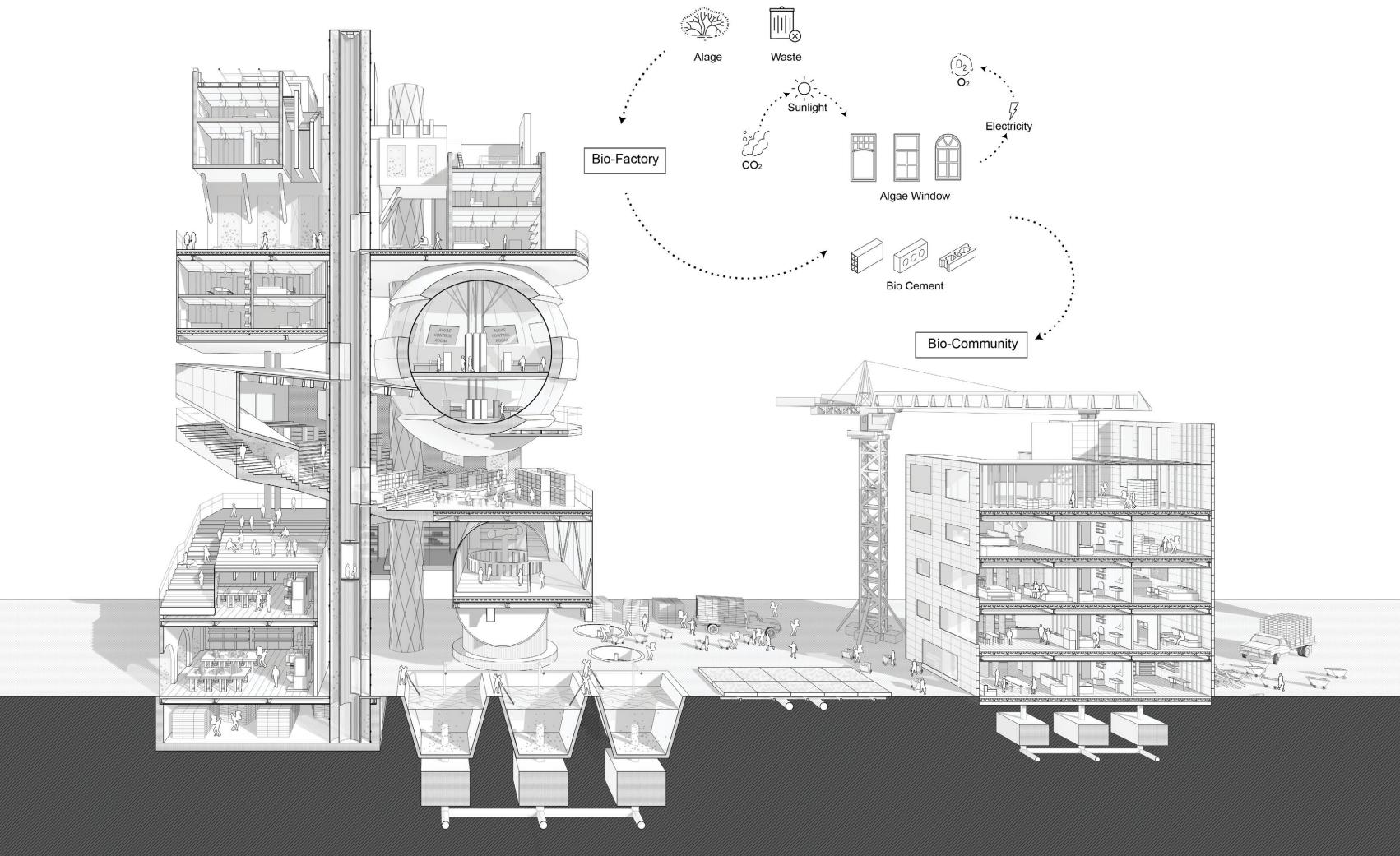
Global CO2 Emissions by Sector



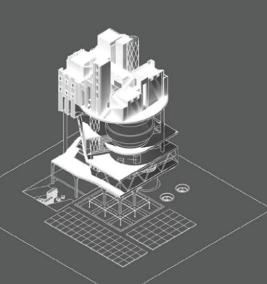




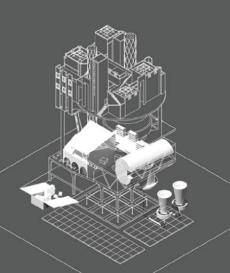
IV. BIO-COMMUNITY SECTION



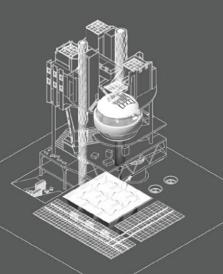
V. FACTORY FUNCTION ANALYSIS



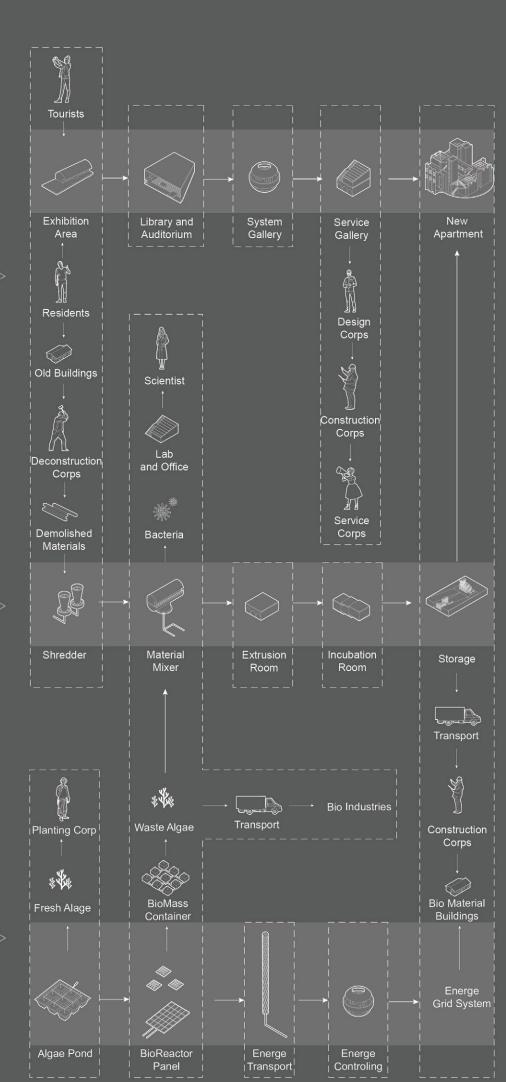
Residents Line

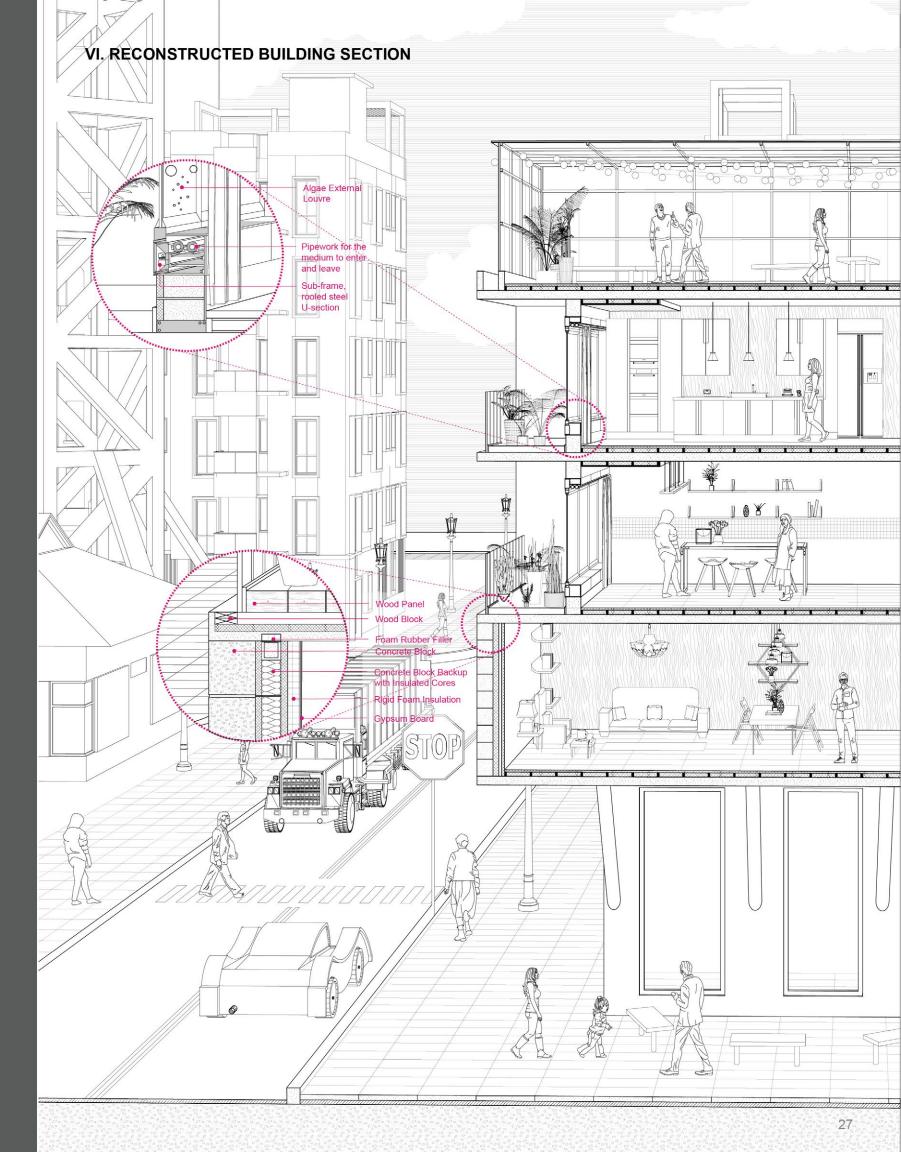


BioCement Line



Alage Energy Line





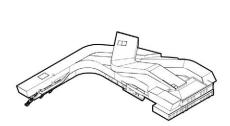


03 GALLERY IN MOTION

Gallery creates an isolated white-box-space for the artwork to be viewed and judged. Conversely, in the back of house space, artworks are much more vibrant when they are transported, decorated, repaired and so on. However, all those forms of movement are not accessible to visitors, which in some degree makes the artwork incomplete. 'Moving' as the most important design strategy in our design process. The project focuses on the movement of people and artwork. To achieve the speical spatial experience in the space, we create different moving scale and frequency for both people and artwork. Through the movement of art boxes in varying frequency, different types or styles of art are able to create unprecedented dialogues and artwork can be reinterpreted in different contexts.



I. MUSEUM ANALYSIS



Maxxi Museum

2010

Area: 290,000 sqft

Circulation

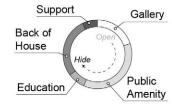
Changed

Gallery

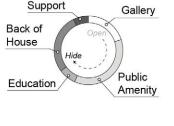
Others

Others

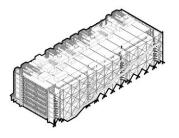
Others



MAXXI is a national museum of contemporary art and architecture in the Flaminio neighborhood of Rome, Italy. The museum is managed by a foundation created by the Italian ministry of cultural heritage. The building was designed by Zaha Hadid, and won the Stirling Prize of the Royal Institute of British Archi-Fixed tects in 2010.





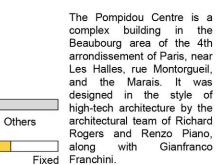


Centre Pompidou

Area: 1,111,200 sqft

Circulation

Changed



Support

Back of

House

Support

Back of

House

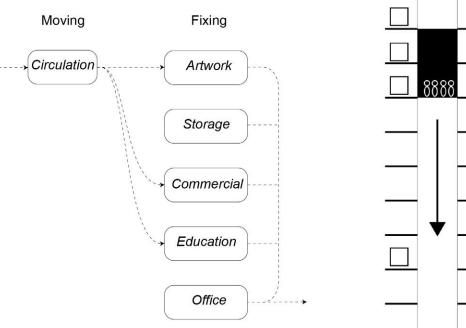
Education

Gallery

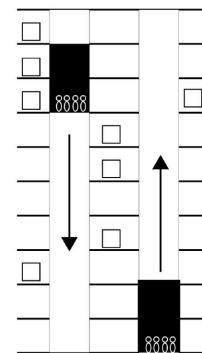
Amenity

Gallery

Amenity

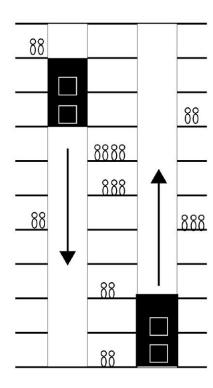


The gallery creates an isolated-white-box space for the artwork to be viewed and judged. Conversely, in the back of house space, artworks are much more vibrant when they are transported, decorated, repaired and so on. The relationship of visitors usually have movement and the artworks are stable.

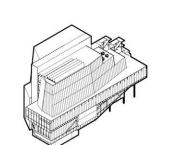


Stable Arts with Moving Visitors





Moving Arts with Moving Visitors



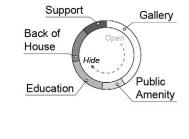
Whitney Museum

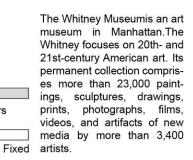
2015

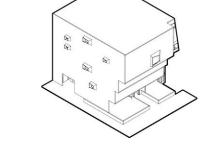
Area: 2,000,000 sqft

Circulation

Changed

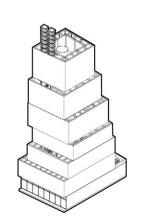






	2016 Area: 782,910 sqt	ft .
Gallery	Circulation	Others
	Changed	F

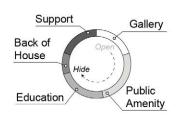
The Met Breuer is a museum of modern and contemporary art at 945 Madison Avenue and East 75th Street in the Upper East Side of Manhattan, New York City. It is part of the Metropolitan Museum of Art, also called the Met.



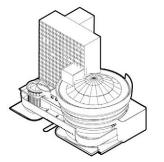
New Museum

2007

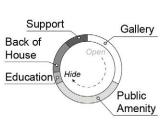
Area: 58,700 sqft



MAXXI is a national museum of contemporary art and architecture in the Flaminio neighborhood of Rome, Italy. The museum is managed by a foundation created by the Italian ministry of cultural heritage. The building was designed by Zaha Hadid, and won the Stirling Prize of the Royal Institute of British Archi-Fixed tects in 2010.



Solomon R. Guggenheim Museum Area: 44,170,000 sqft Gallery Circulation Changed



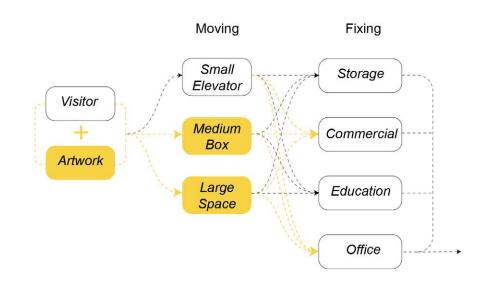
The Solomon R. Guggenheim Museum is an art museum located at 1071 Fifth Avenue on the corner of East 89th Street in the Upper East Side neighborhood of Manhattan, New York City. It is the permanent home of a continuously expanding collection of Impressionist, Post-Impressionist, early Modern, and contemporary art and also features special exhibitions Fixed throughout the year.

2. Design Achievement

II. IDEATION

Visitor

1. Current Museum Situation



In our design, we would like to give the movement of artworks too. There are three different sizes of moving components, which could carry the artwork and combine with different programs to create various experiences. When those components move from one place to another, they not only reorganize the circulation but also change the special experience (even reverse the interior and exterior space).

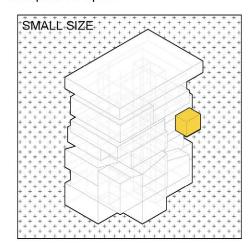
Gallery Circulation

Changed



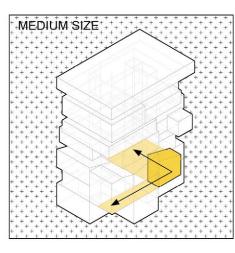
IV. DESIGN COMPONENTS

1. Impact on Space



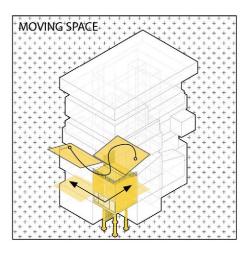
Circulation

Artworks



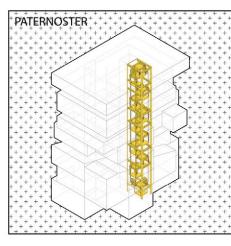
Circulation & Program

Artworks and Functions



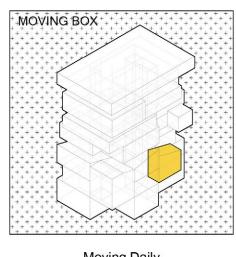
Circulation & Program & Envelope
Artworks, Functions and Facades

2. Frequency of Movement

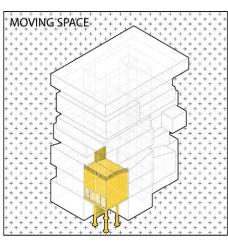


Constantly Moving

Vertical Corridor



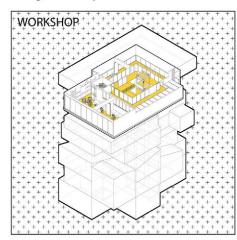
Moving Daily
Single Visit Experience



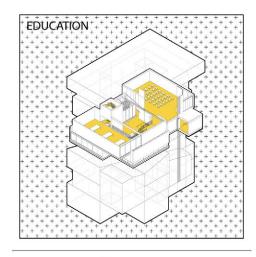
Moving Seasonlly

Multiple Visits Experience

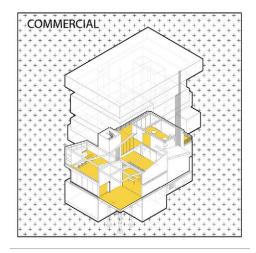
3. Program of Space



Workshop
Fifth Floor and Sixth Floor

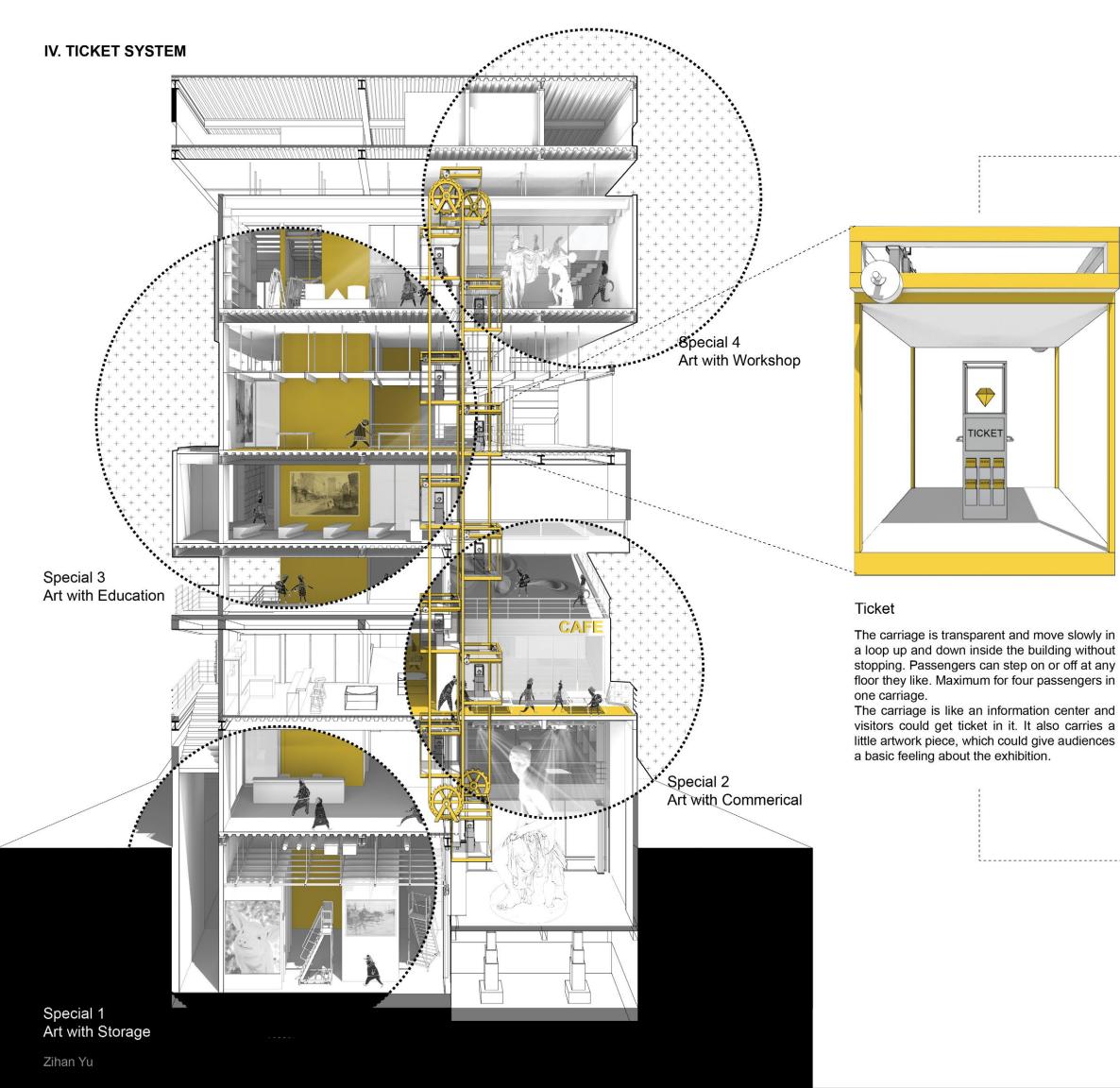


Classroom
Third Floor and Forth Floor



MOVING SEASONALLY

Ground Floor and Second Floor





General Admission \$10

TICKET

Having a chance to get alone with an art piece! A quick way to see the museum. But does not include special exhibitions. (Cannot get off the elevator during the visit.)



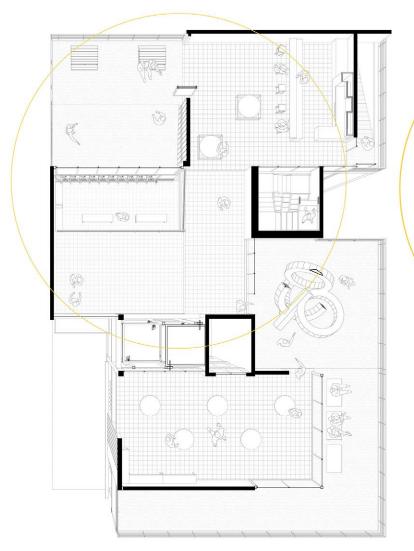
General Admission Plus One \$15

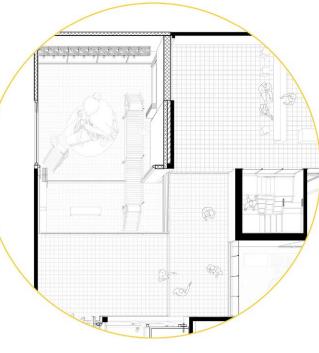
Includes General Admission plus one speical exibition. Choosing one of the four types of art you want carefully look. (Only could get off during the same type art platform)



General Admission Plus All \$20

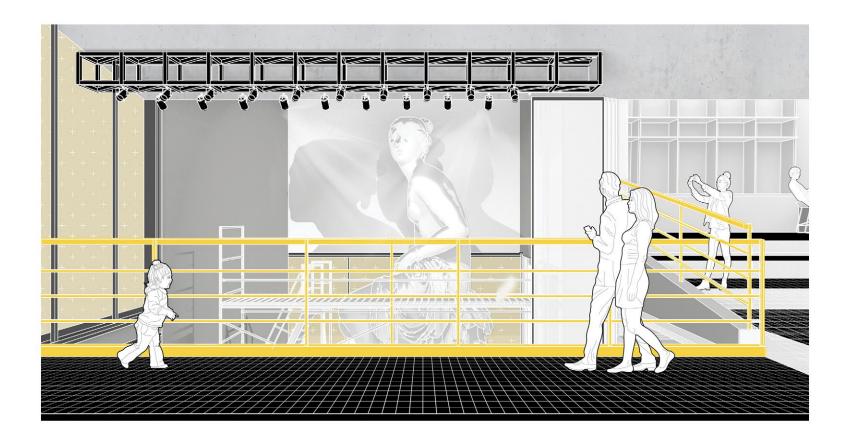
Includes General Admission plus all speical exhibitions. Experiencing the whole museum. Get to any type of art!

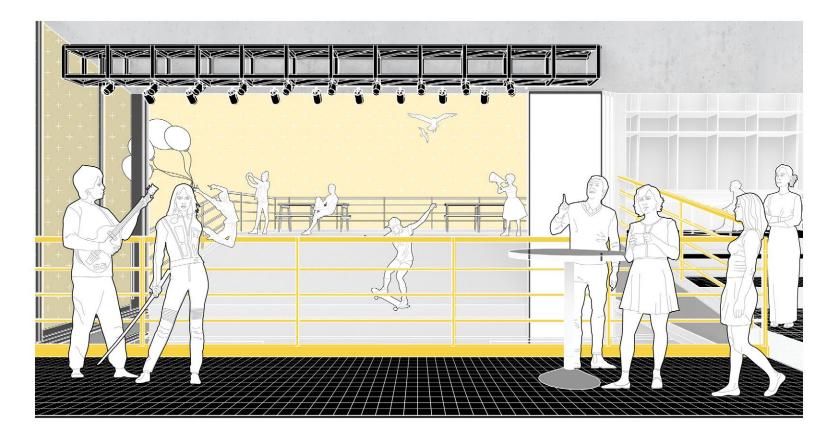


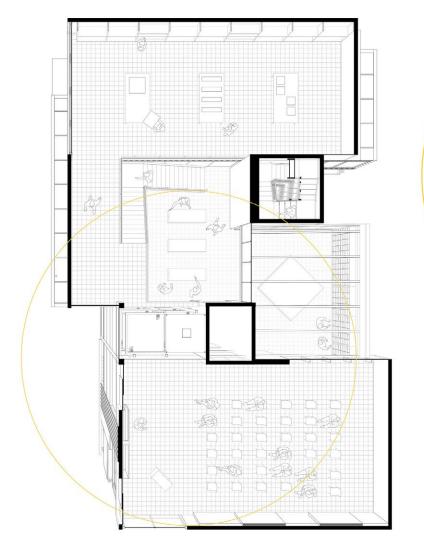


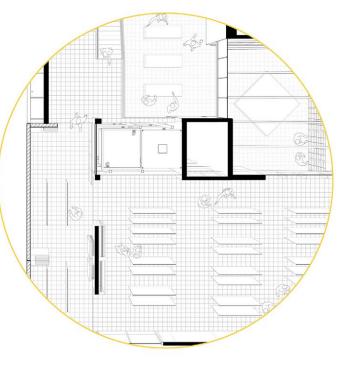
SECOND FLOOR: ART IN COMMERCIAL

MOVING SCALE: SMALL/MEDIUM/LARGE
MOVING FREQUENCY: SEASONALLY
PROGRAM: CAFE/MULTIFUNCTION HALL/TERRACE/RESTAURANT





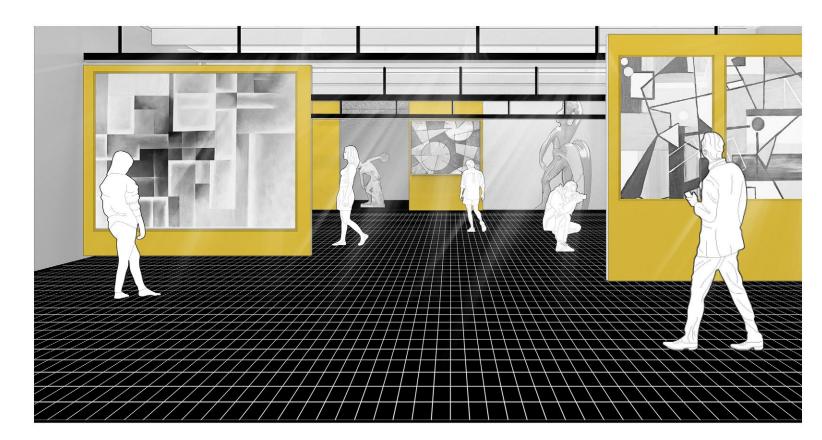




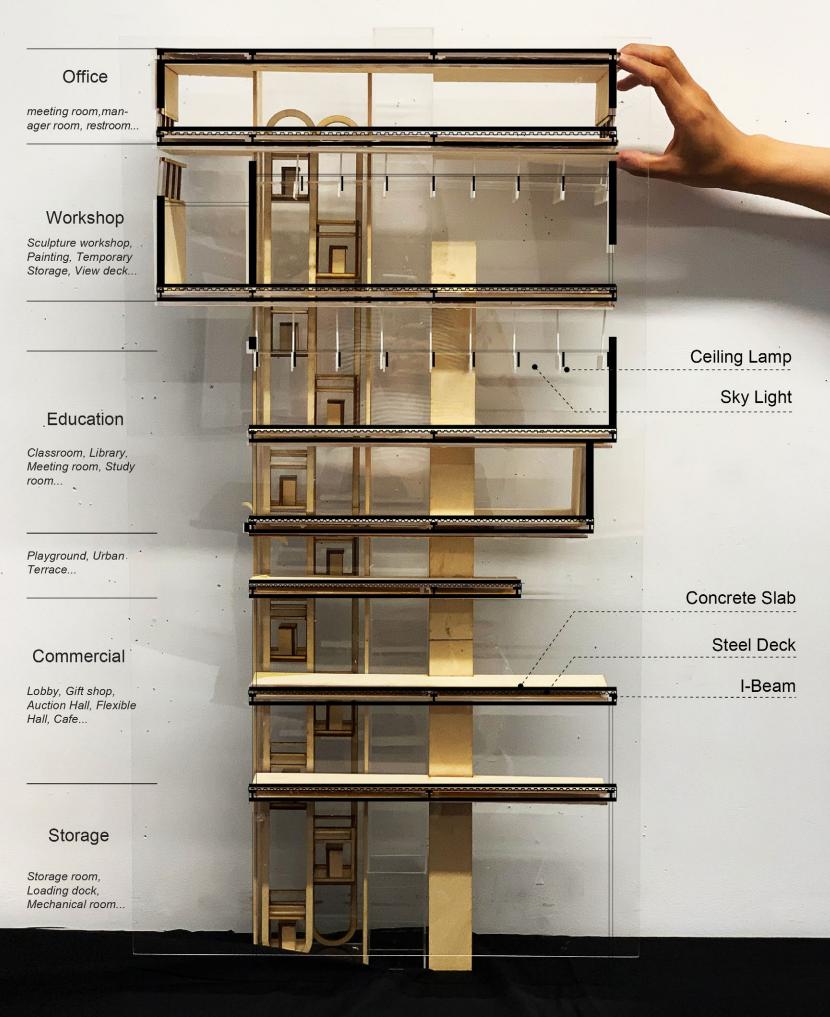
FORTH FLOOR: ART IN EDUCATION

MOVING SCALE: SMALL/MEDIUM
MOVING FREQUENCY: DAILY
PROGRAM: CLASSROOM/PANEL ROOM/LIBRARY/RESEARCH CENTER





VII. PHYSICAL MODEL





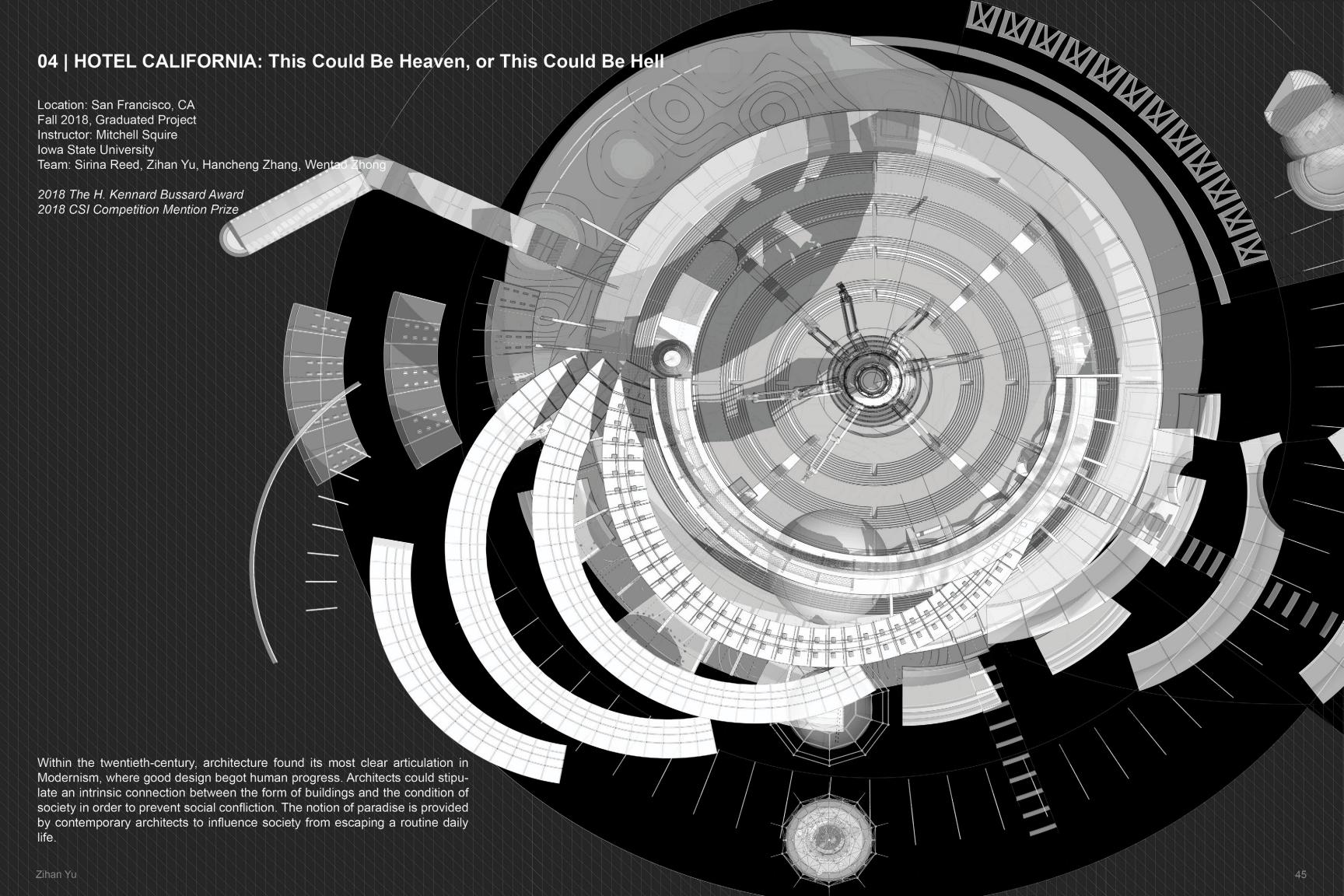




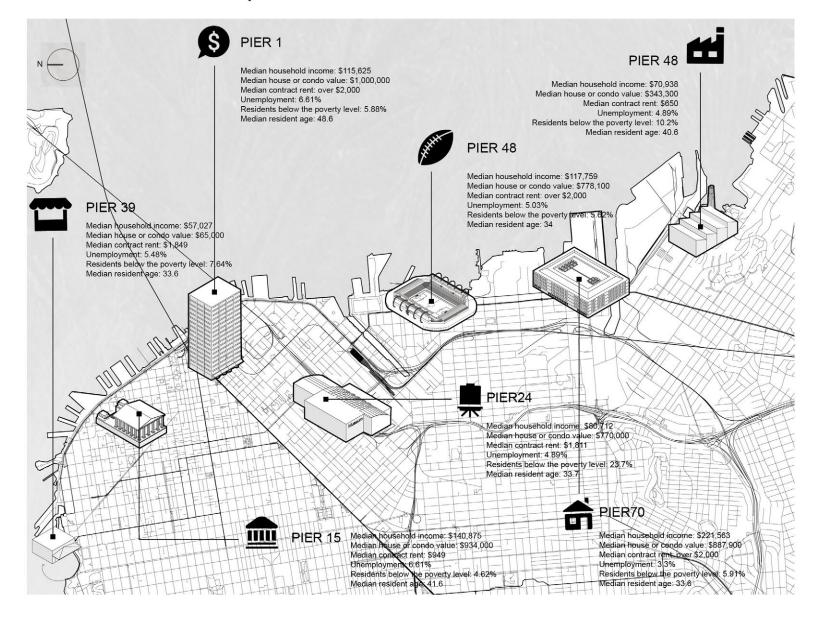




South East



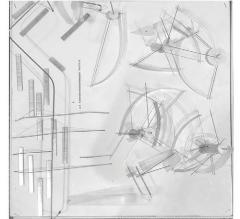
I. CITY ANALYSIS: Wealth Gap in San Francisco



II. IDEATION

In San Francisco, there is an extensive wealth gap that affects the social culture of the city. Our initial observations were about the vast diversity in demographics there is throughout the city. The separation of people and cultures are very distinct and split into different areas because of the influence of wealth in the city. We recognized that this issue resembles the idea of how the wealth of the city can prevail over the rest of society in respect to its architecture and urban planning.



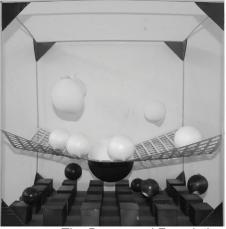




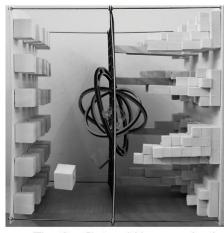
The 1%

The Speed of Time

The Reality: Potential Risk







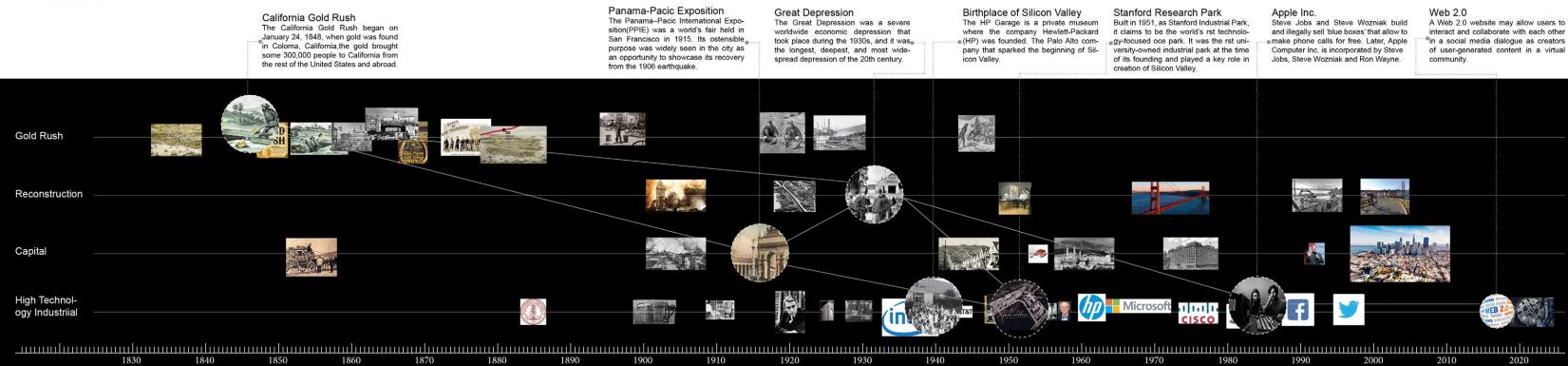
The Dream and Foundation

The Life

The Conflict and Homogenization

47

III. TIMELINE



ARCHITECTURE DISH MENU









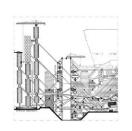




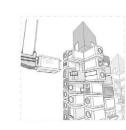








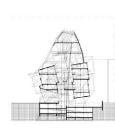




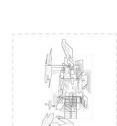












Architects invent what is not physically there yet must always begin with an idea of something located somewhere. This paradoxical situation suggests that future projects start with a past set of circumstances, just as the present and previous projects do. Our collected imagination has been more of a process than it has been epiphanic. Our project provides a guideline for the assumed future of San Francisco. It is a speculation of the concentration of social capital and start of the nature without new architectural fictions.

IV. CONCEPT DEVELOPMENT

par·a·dise / perə dīs/

noun

noun: paradise; plural noun: paradises

- 1. (In some religions) Heaven as the ultimate abode of the just.
- 2. An ideal or idyllic place or state.
- 3. An urban lifestyle imagined by contemporary architects.







The notion of paradise is provided by contemporary architects to influence society from escaping a routine daily life. To understand what paradise is, we studied Hieronymus Bosch's Garden of Earthly Delights (1503-1515). This painting shows us what lies beyond the ideas of how we live on earth and refers to a heaven, earth and hell in one setting.



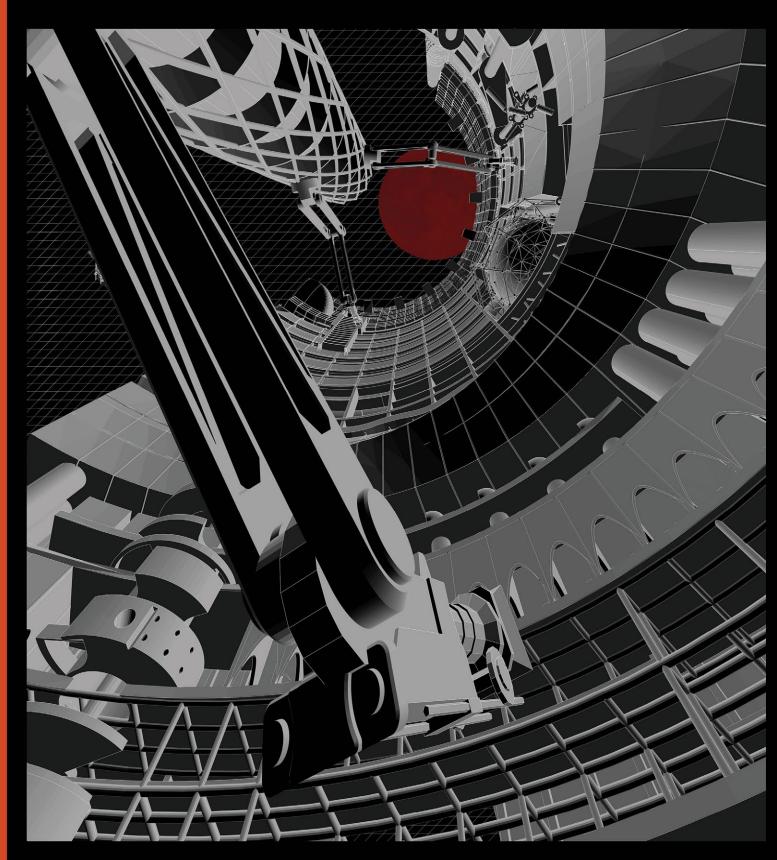




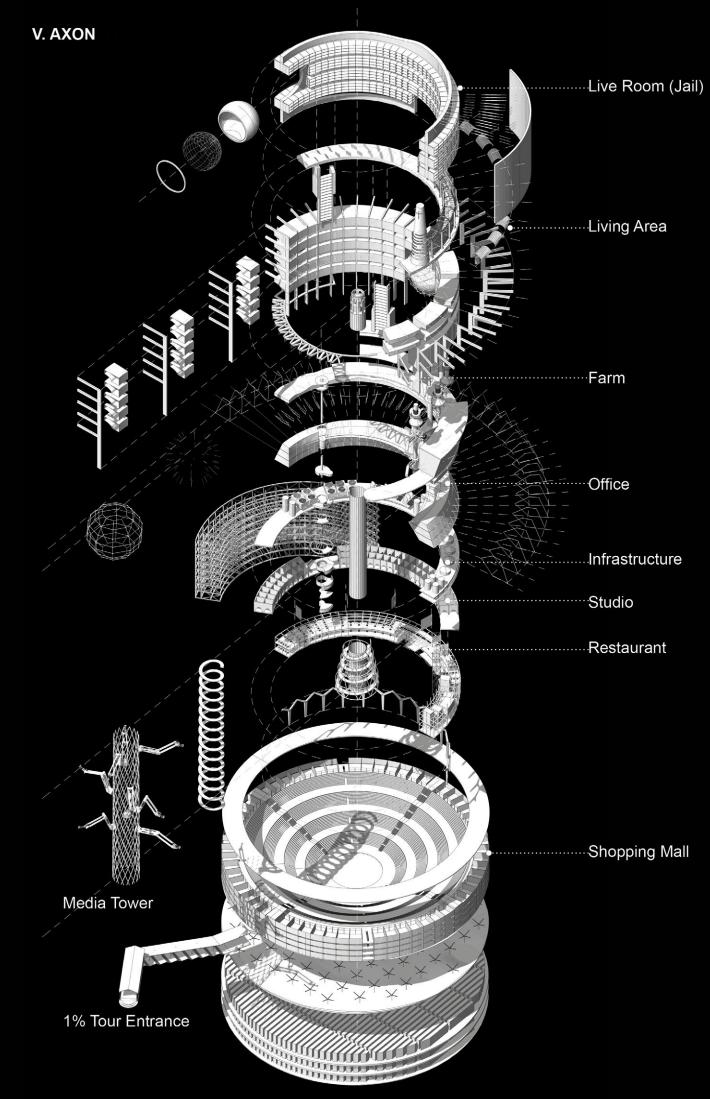
This allows us to understand that a paradise is created by both positive and negative elements and that one person's paradise may be another person's hell. Today, architectural fictions, or paradises, are created without the presence of negative impacts. This means, our society will only see positive aspects in the progression of the built environment.

CONCEPT MODEL



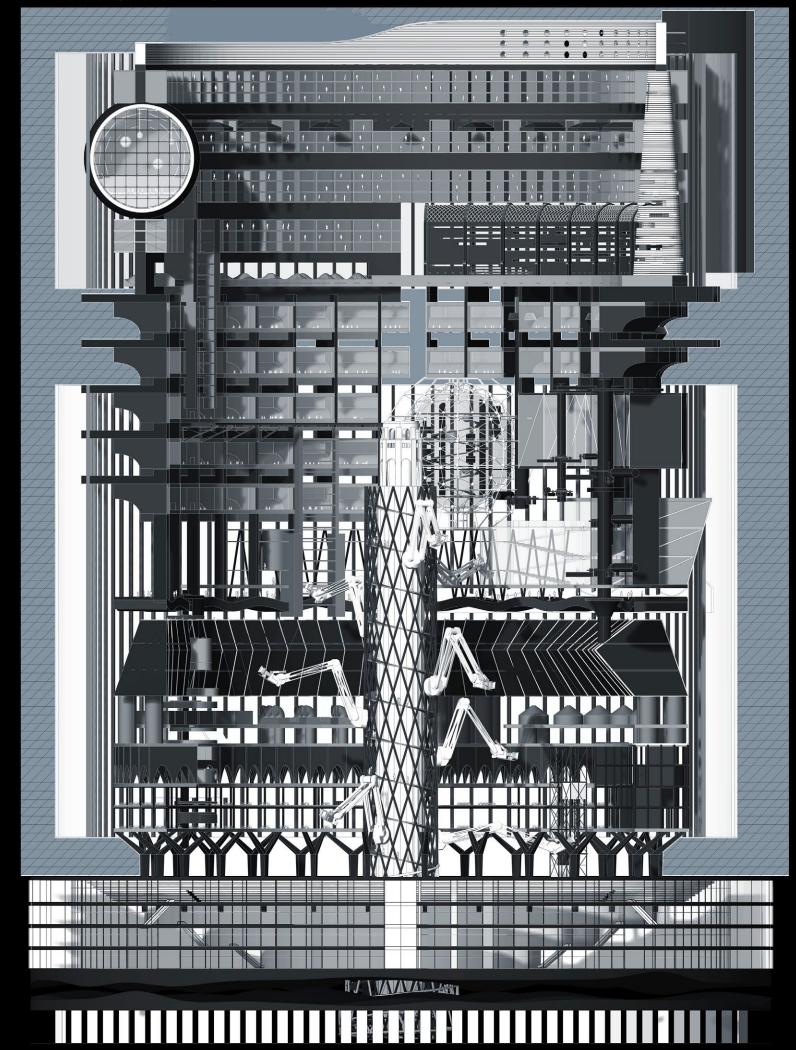


In the near future of San Francisco, the idea of self will be manipulated by the built environment. This built environment is proposed and designed by the wealthiest 1% of the population of San Francisco in order to regulate the 99% of the population. At this point in time, the 1% has full control over the city's capital. The 1% will use visionary architects and architecture as a toll to control the 99%. They will claim the improvement of society and the environment to make sure these architects are on board with their ideas for development. The 1% will advertise this architecture by providing separate spaces and experiences for free thinkers, the homeless, artists, consumers, environmentalists, etc. They are influencing the way people live and circulate without making it seem as though the threat to total control is not relevant. The 1% sees to prevent the eruption of social conflict by implementing this architecture within the city to place restrictions on the rest as the society because they believe that if the rest of society has full control over their actions there will be chaos.

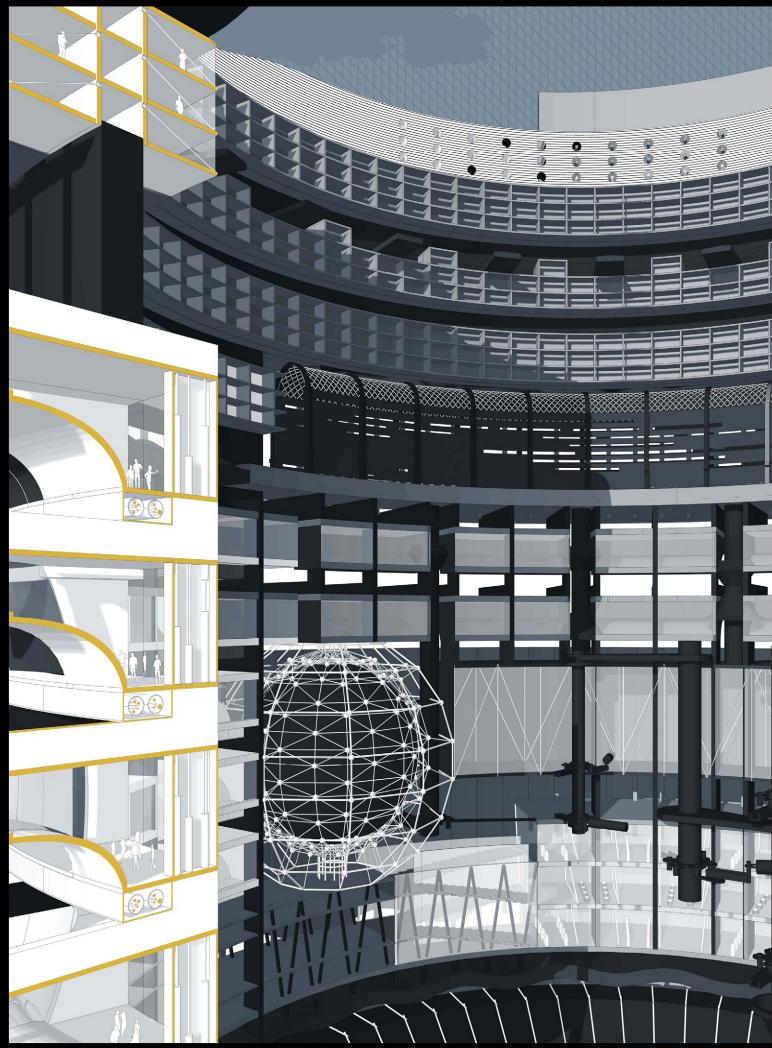


han Yu 51

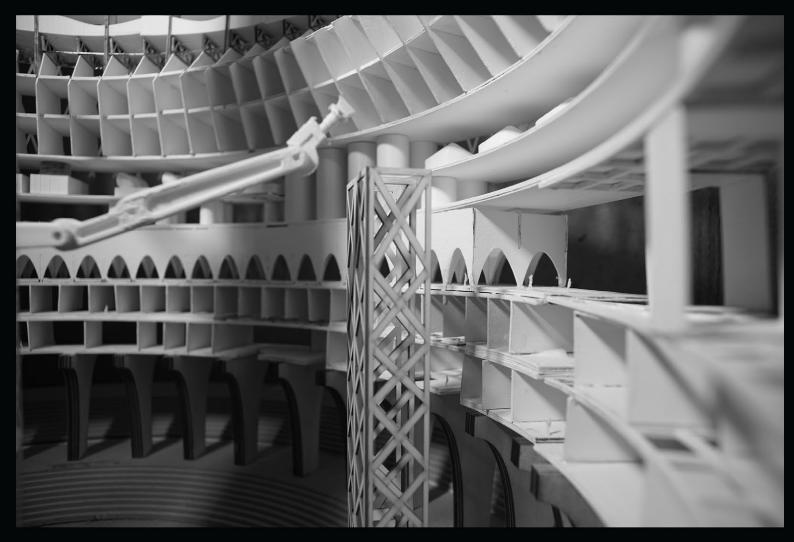


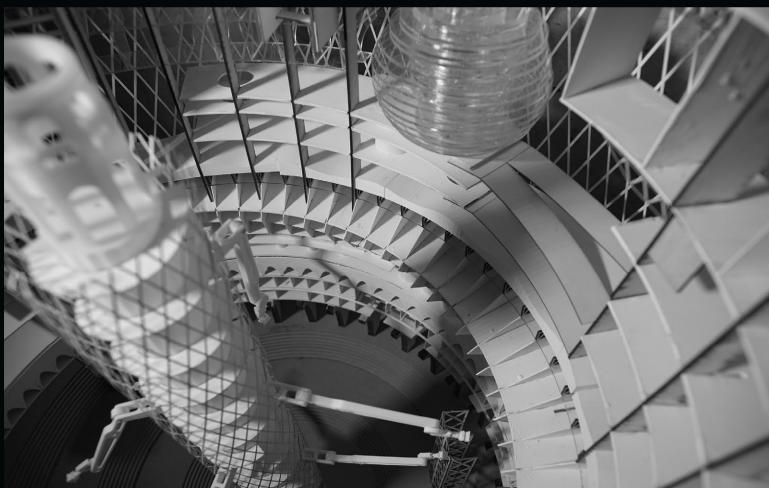


VIII. SECTION DRAWING



IX. PHYSICAL MODEL

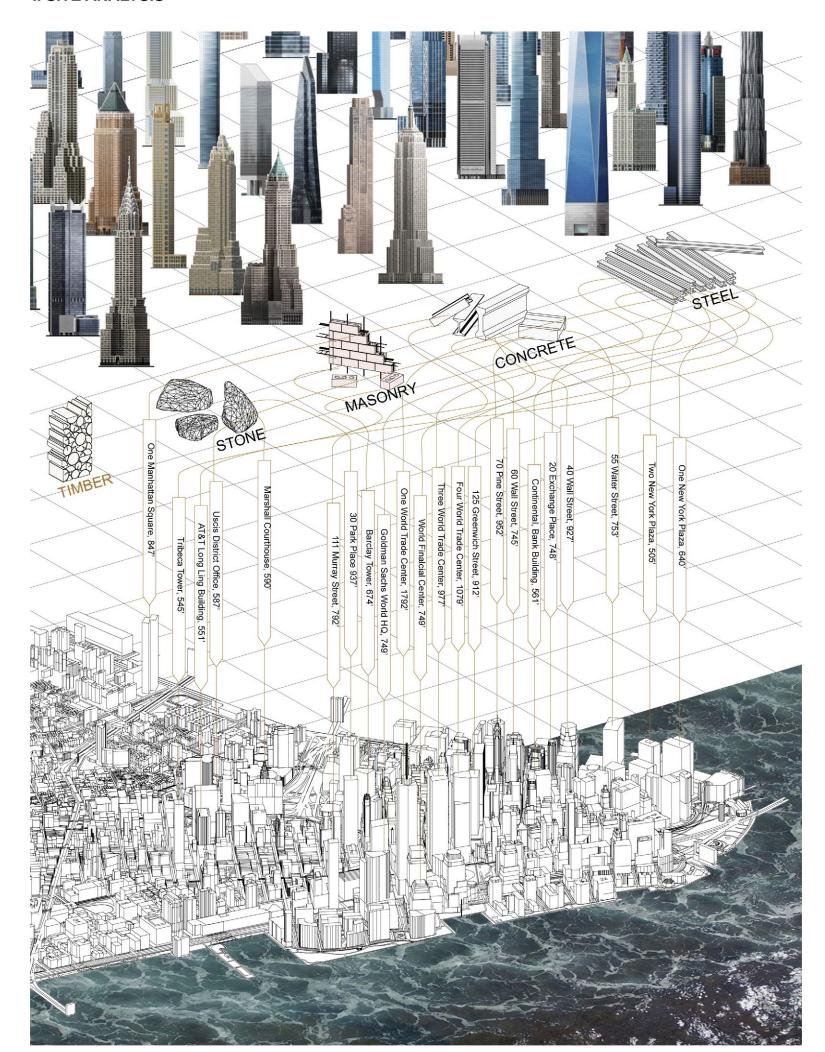




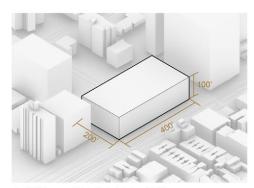




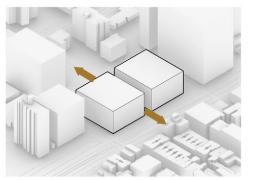
I. SITE ANALYSIS



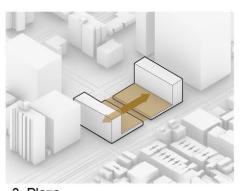
II. CONCEPT DEVELOPMENT



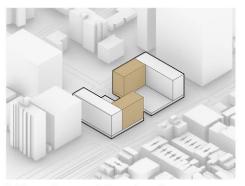
Site and Height Limitation
 The maximum size of the project is same as two blocks.



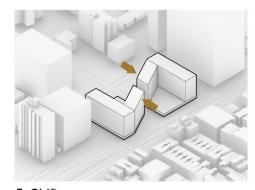
2. Norfolk St The street divided the project to two parts.



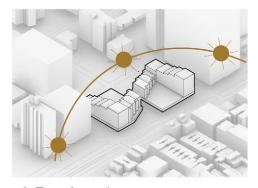
3. Plaza
Creat a public area for residencial and commercial part between the two volumns.



4. Boundary and Courtyard
The enclosing shape create a more private plaza space for residents.



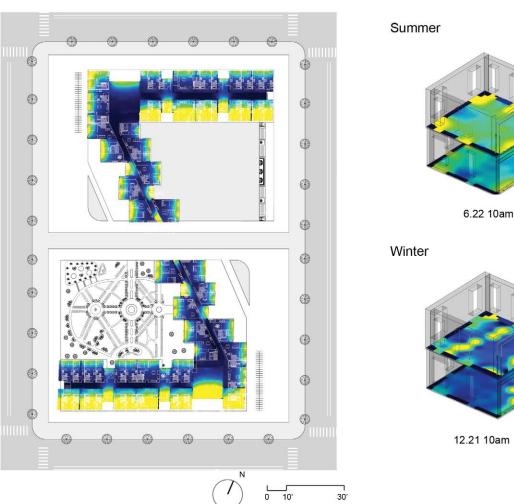
5. Shift
The connection part is shifted by surrounding and create two private plaza for each part.

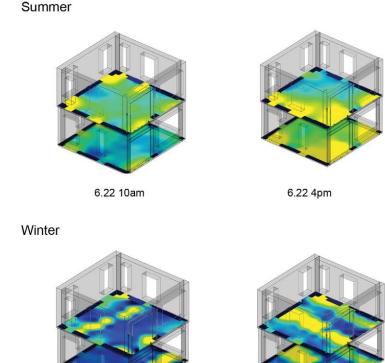


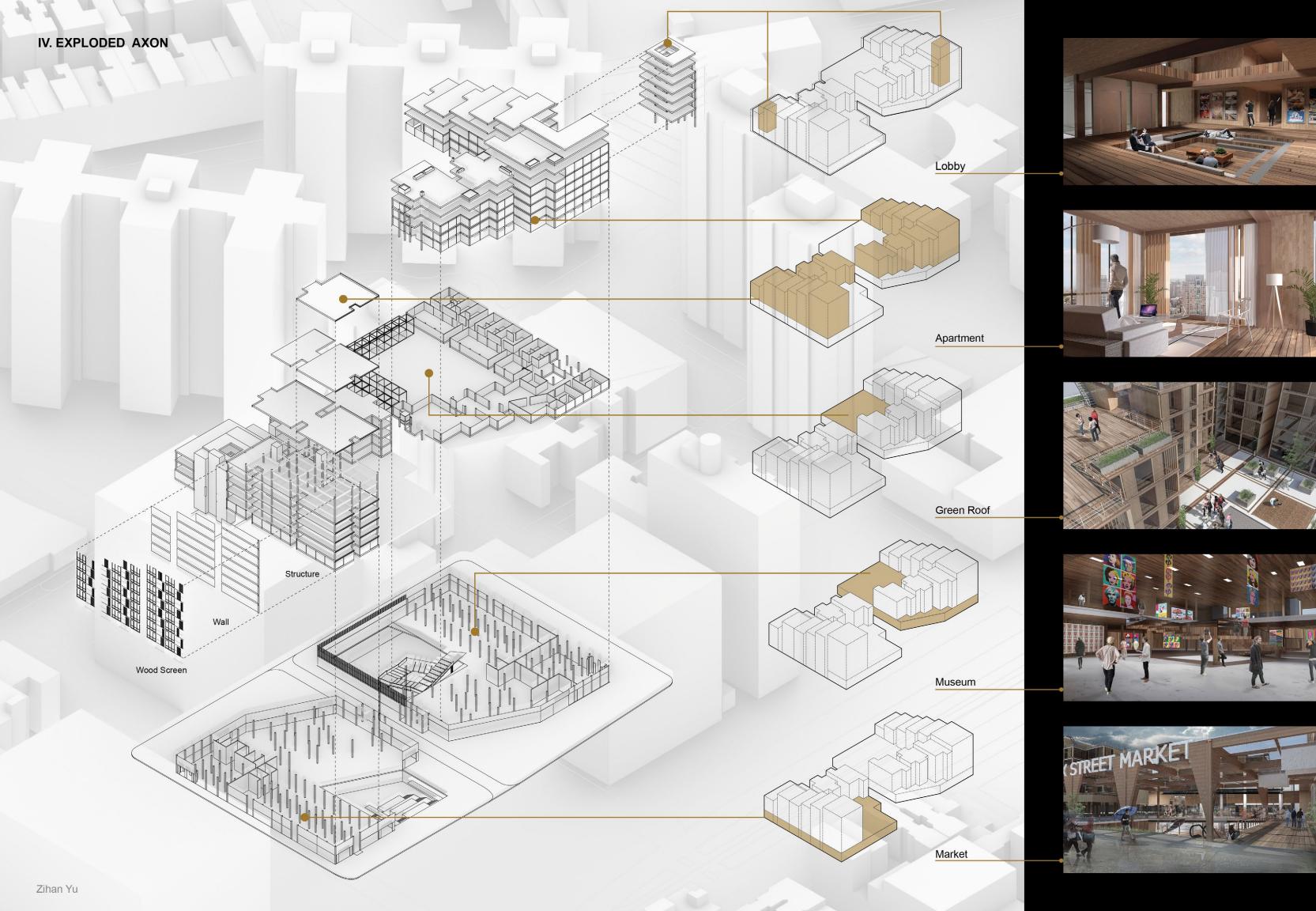
6. Transformation
The building transform up and down allow more sunlight into the building.

12.21 4pm

III. SIMULATIONS







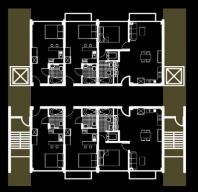


VI. UNIT FLOORPLAN

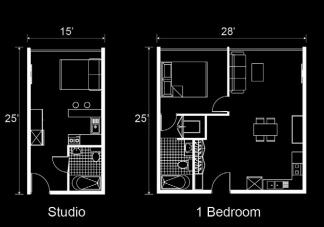
BREAK UP LONG CORRIDOR

The long corridors are common in apartment buildings. But the closed and narrow space usually could make residents uncomfortable. It is also frustrating to decorate because there is a limited amount of space to work with.

- The first idea is using 6 units as one group, which share a staircase and elevators. The staircase breaks up the long corridors and it also brings sunlights into the closed hallway.
- For the multiple bedroom units, the zigzag shape makes sure every room could have natural light and also breaks up the corridors with green space.

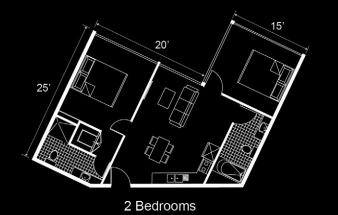


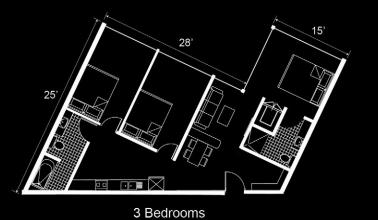
6 UNITS GROUP



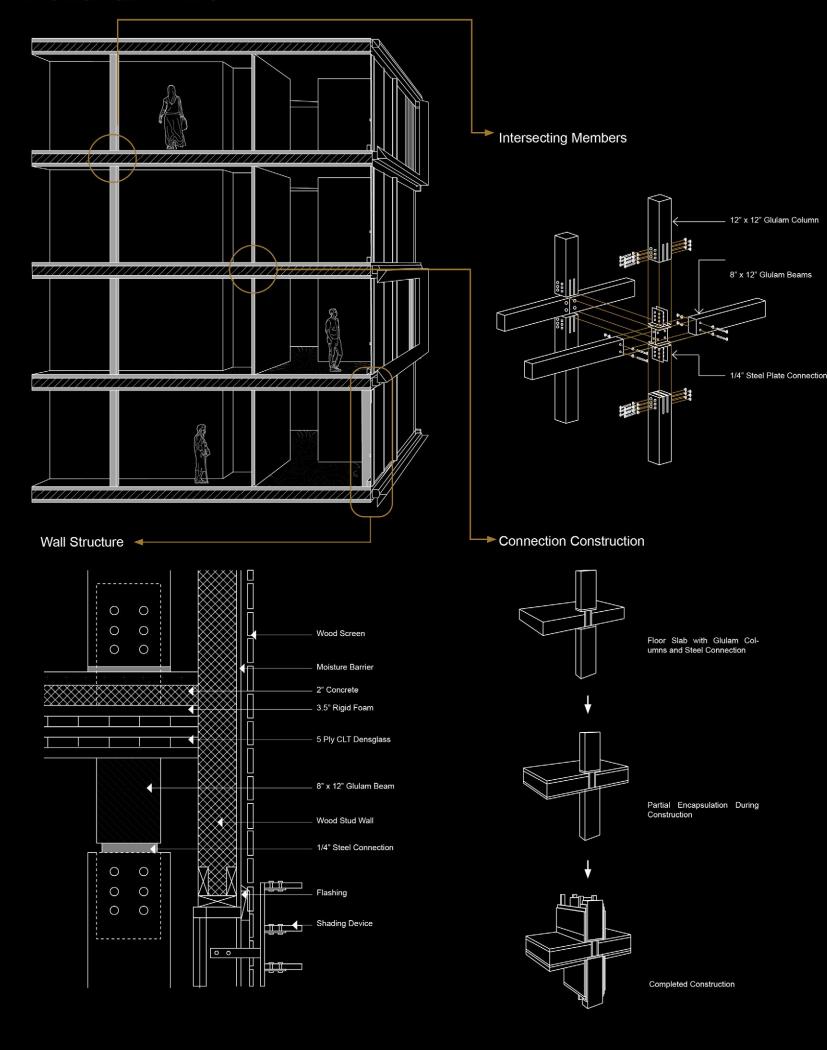


openness





VII. STRUCTURE DETAILS



VIII. RENDERINGS





