

ANN  
YUTING LONG

P O R  
T F O  
L I O

COLUMBIA UNIVERSITY, NEW YORK

GSAPP M.S. ADVANCED ARCHITECTURAL DESIGN

Throughout my works, I've focused on creating designs that prioritize equity and sustainability.

In my portfolio, my three design studio projects challenge traditional hierarchies and promote inclusivity and accessibility while prioritizing sustainability and environmental consciousness.

The first project NEW YORK CITY HALL STATION emphasizes the importance of interconnectedness and community. I wanted to bridge the gaps between public, transit, and political networks, creating a space that fosters inclusivity and accessibility.

The second project RE-ASSEMBLED BRUTALIST repurposes existing materials and provides much-needed affordable housing options. I'm advocating for a more socially responsible and environmentally conscious approach to architecture.

The third project THE 'CURSED' EDEN GARDEN centers around the Spear Thistle, a plant that's often considered unwanted. I wanted to challenge traditional notions of beauty and value and develop ecological systems that prioritize environmental health. This project advocates for a more equitable and sustainable approach to design that centers on nature and its inherent value.

You'll also see a range of photographs that explore the beauty of different places and the visual narratives that emerge from the interplay of architectural elements. Each photo is a unique expression of my fascination with how architecture shapes our experiences and creates meaning.

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# NEW YORK CITY HALL STATION

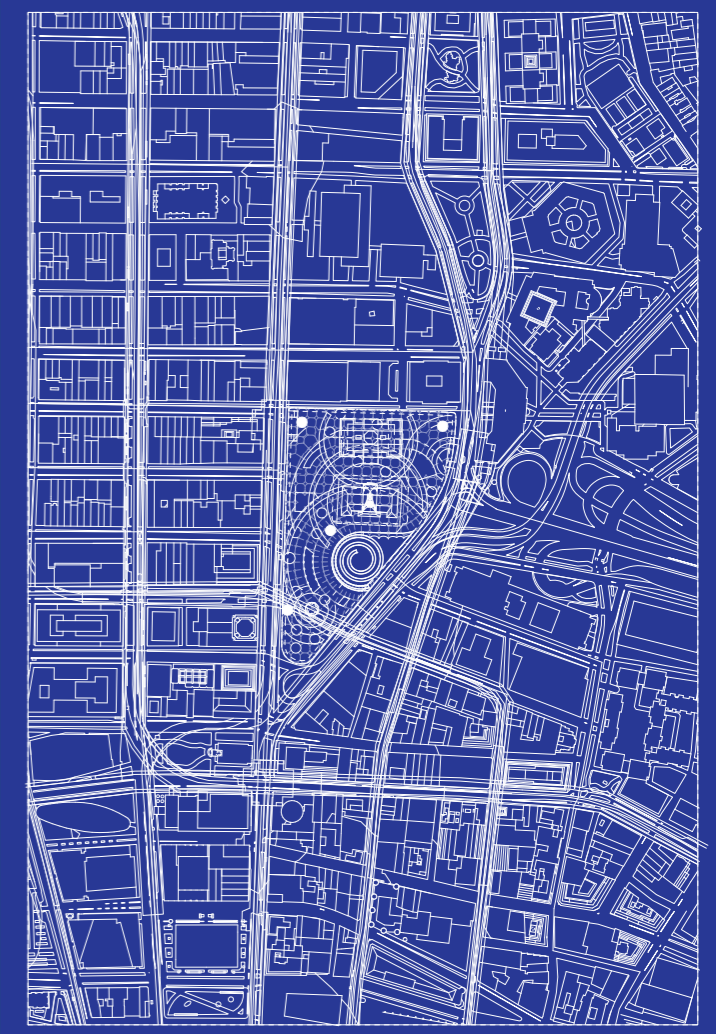
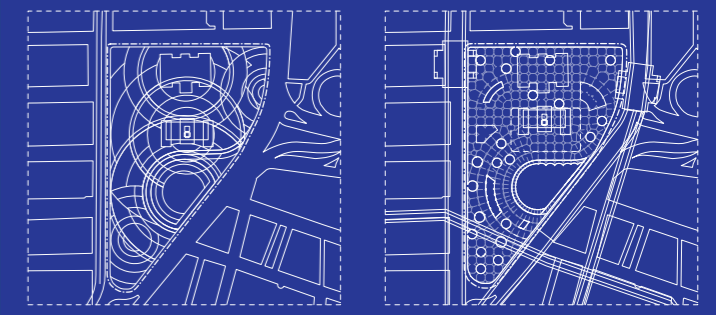
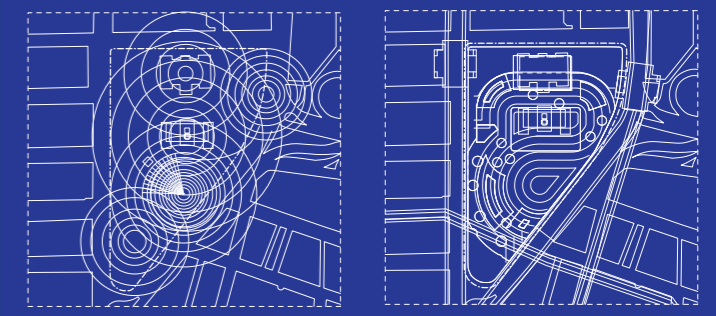
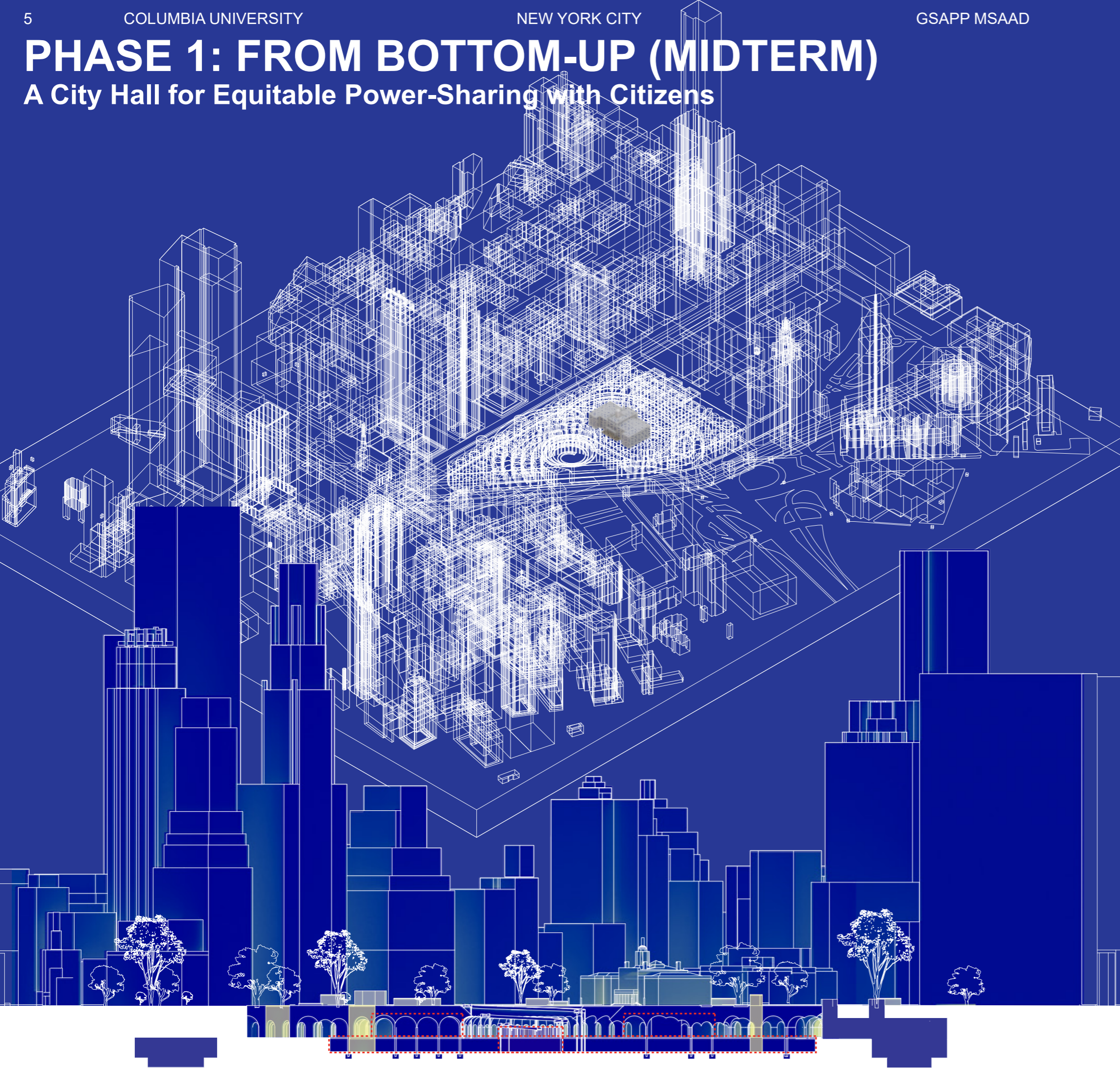
## RE-IMAGINING NEW YORK CITY HALL AS A TRANSPORTATION HUB BRIDGING SUBWAY NETWORK AND POLITICAL NETWORK

COLUMBIA UNIVERSITY | NEW YORK  
 GSAPP | M.S. AAD  
 STUDIO ERIC BUNGE | SPRING 2023  
 ANN LONG

The new york city hall station project aims to transform the historical landmark into a transportation hub that connects the political center of the city to the extensive subway system. This project is inspired by the idea of reversing the hierarchy of roles and territory between government and citizens, by expanding the government into a transit network. The New York City Hall, built in 1812, is one of the oldest city halls that still serves the governmental function, with about 500 staff working in the building. However, the building is not easily accessible to citizens due to layers of fences and security checkpoints. One of the most noticeable elements of the New York City Hall is the glass skylight openings on the plaza, which reveal the existence of the historical City Hall Loop. This loop, built in 1904 as part of the earliest IRT lines, is one of the finest civic spaces and the center of the New York subway system. However, it has been long forgotten by the city since it was abandoned in 1945. Ann's design proposes transforming the New York City Hall into a station that engages the public at different levels, including the City Hall park, transit center, and governmental facilities.

# PHASE 1: FROM BOTTOM-UP (MIDTERM)

## A City Hall for Equitable Power-Sharing with Citizens





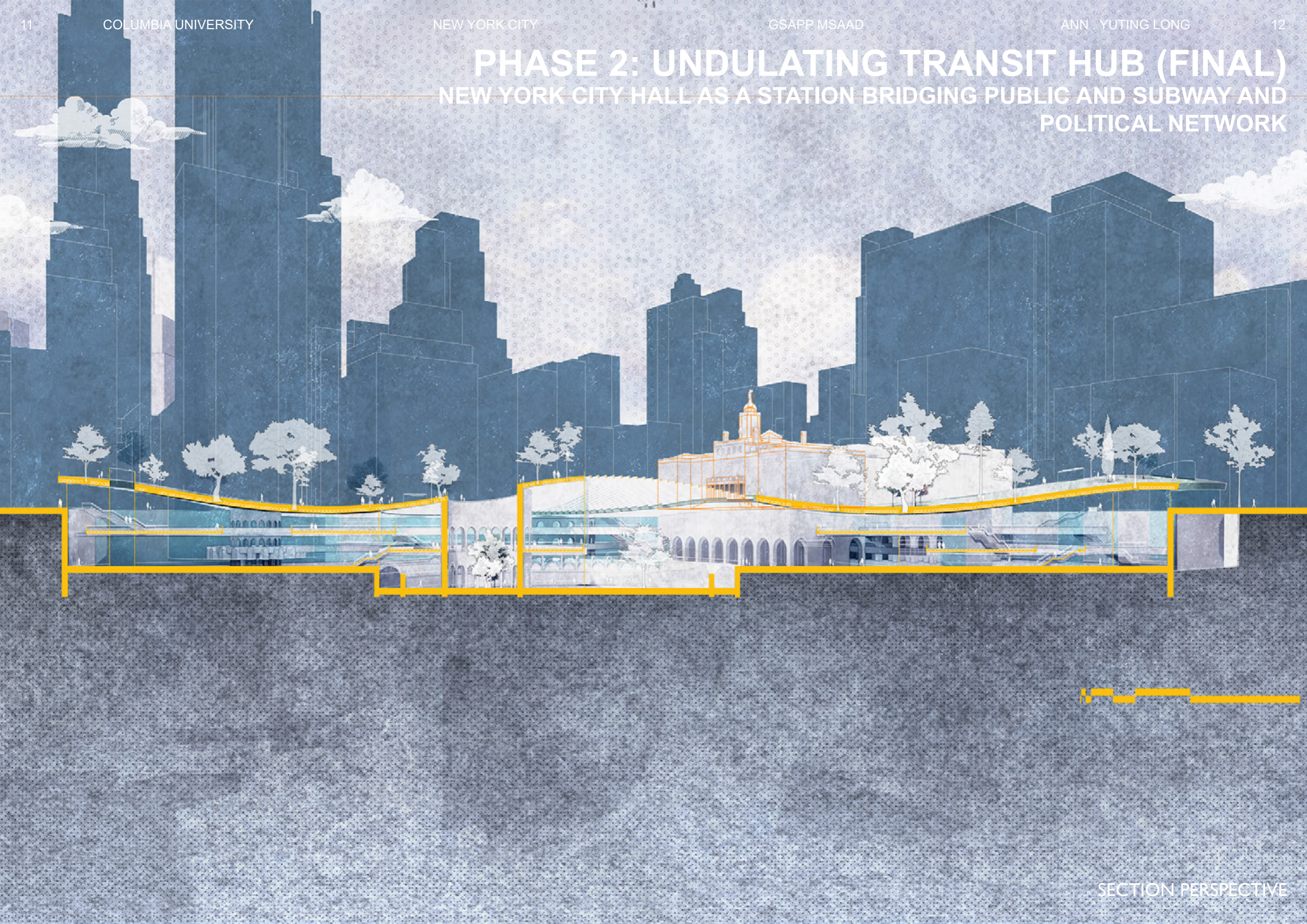
SUNKEN PLAZA TRANSIT CENTER VIEW, SHOWING RAMP CONNECTING TO CITY HALL



TRANSIT CENTER UNDER THE VAULTS, ACCROSS MIRROR IS THE COURTHOUSE

# PHASE 2: UNDULATING TRANSIT HUB (FINAL)

## NEW YORK CITY HALL AS A STATION BRIDGING PUBLIC AND SUBWAY AND POLITICAL NETWORK

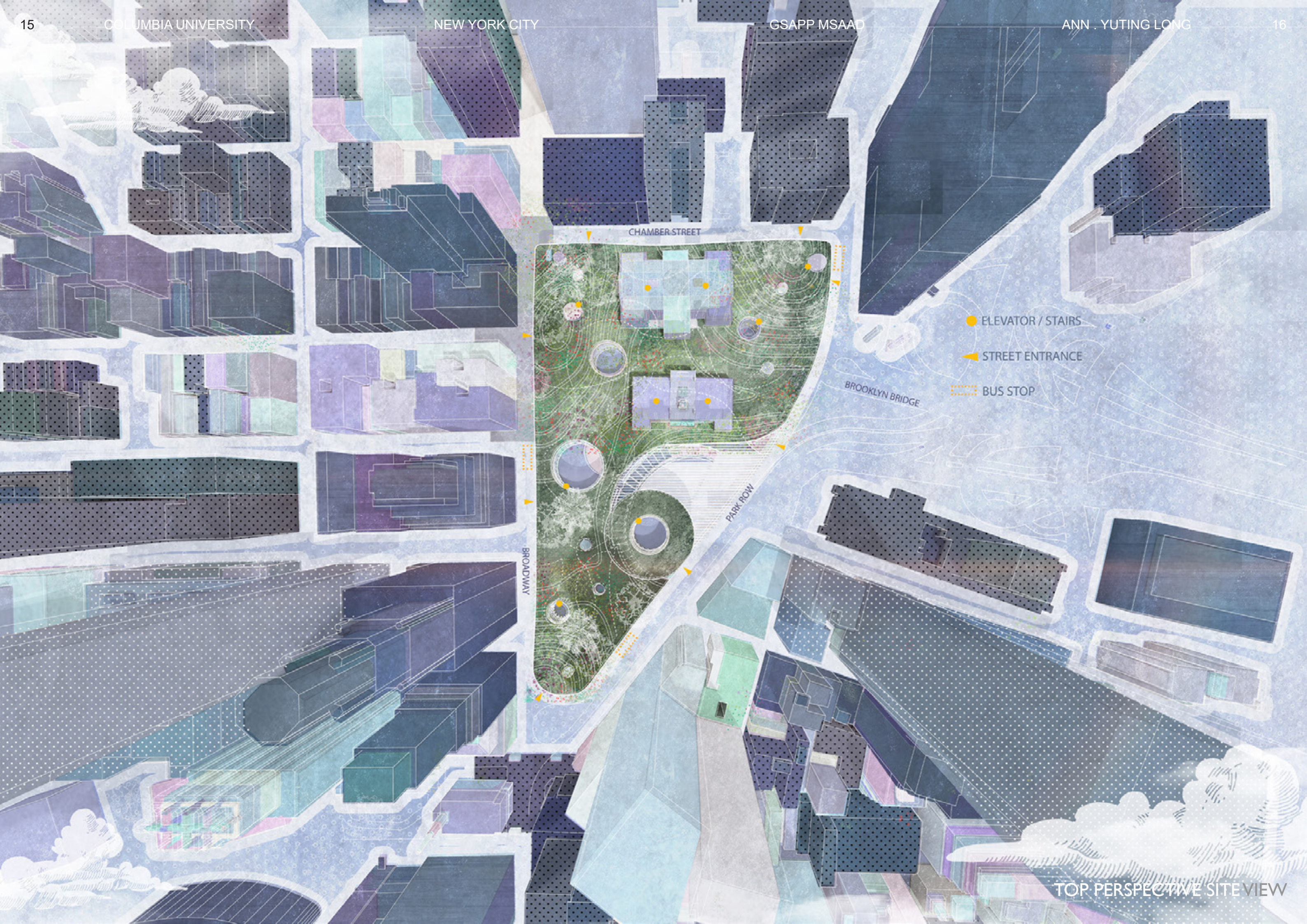


SECTION PERSPECTIVE



- ★ NYC CITY HALL
- TWEED COURTHOUSE
- ⓘ CITY HALL STATION | R, W
- Ⓜ BROOKLYN BRIDGE STATION | 4,5,6, J, Z
- Ⓜ FULTON ST. STATION | 4,5





CHAMBER STREET

BROOKLYN BRIDGE

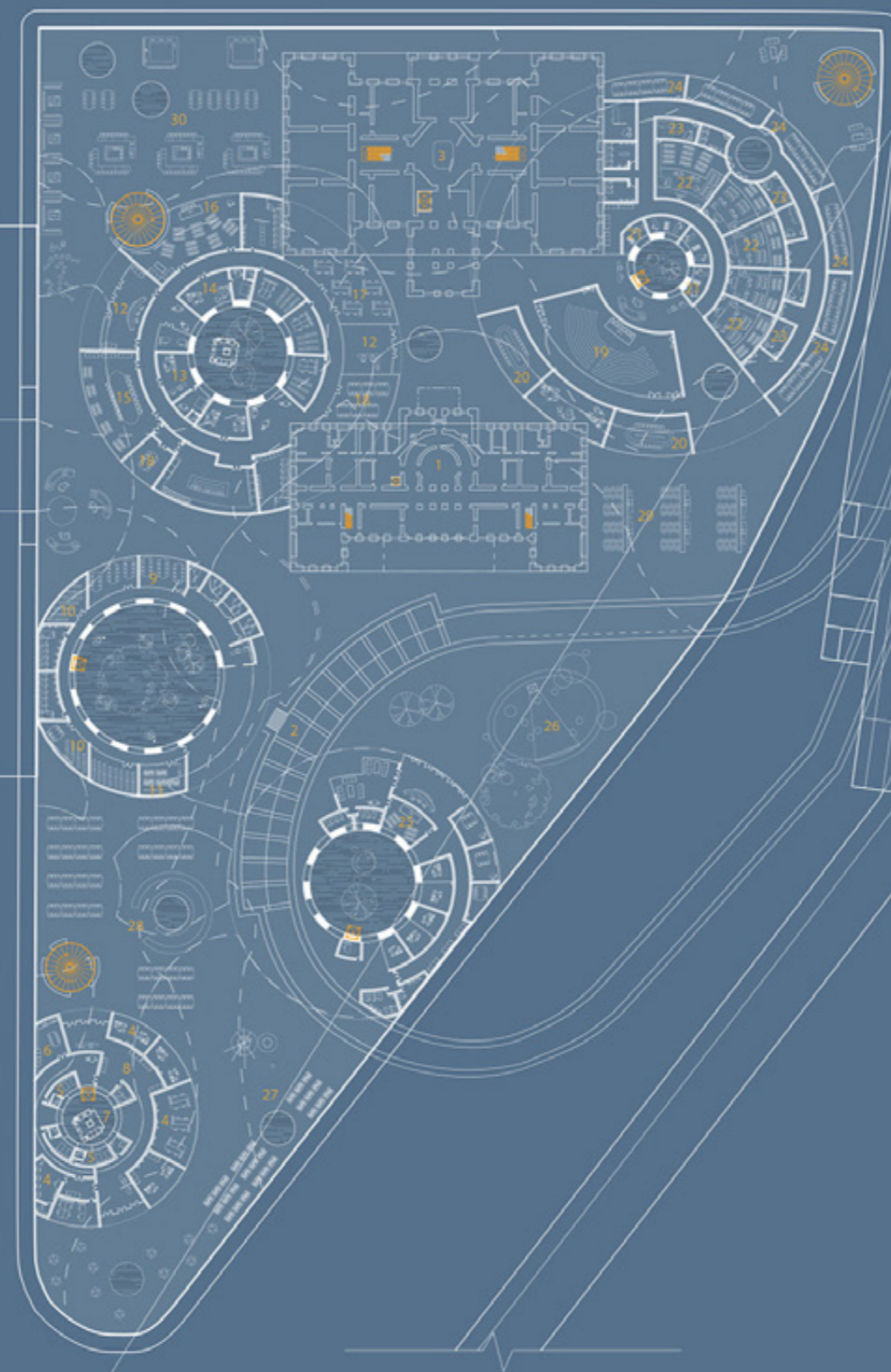
PARK ROW

BROADWAY

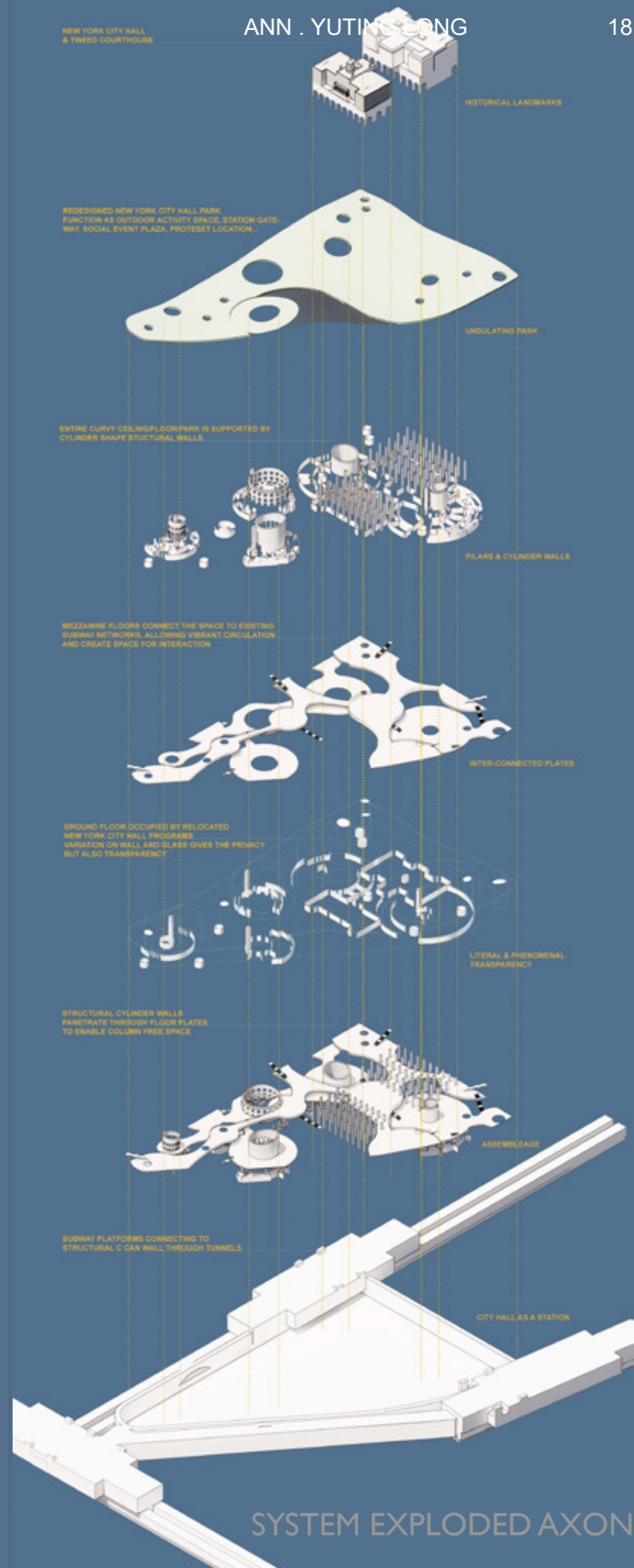
- ELEVATOR / STAIRS
- ▲ STREET ENTRANCE
- ⋯ BUS STOP

TOP PERSPECTIVE SITE VIEW

BASEMENT 3 FLOOR PLAN

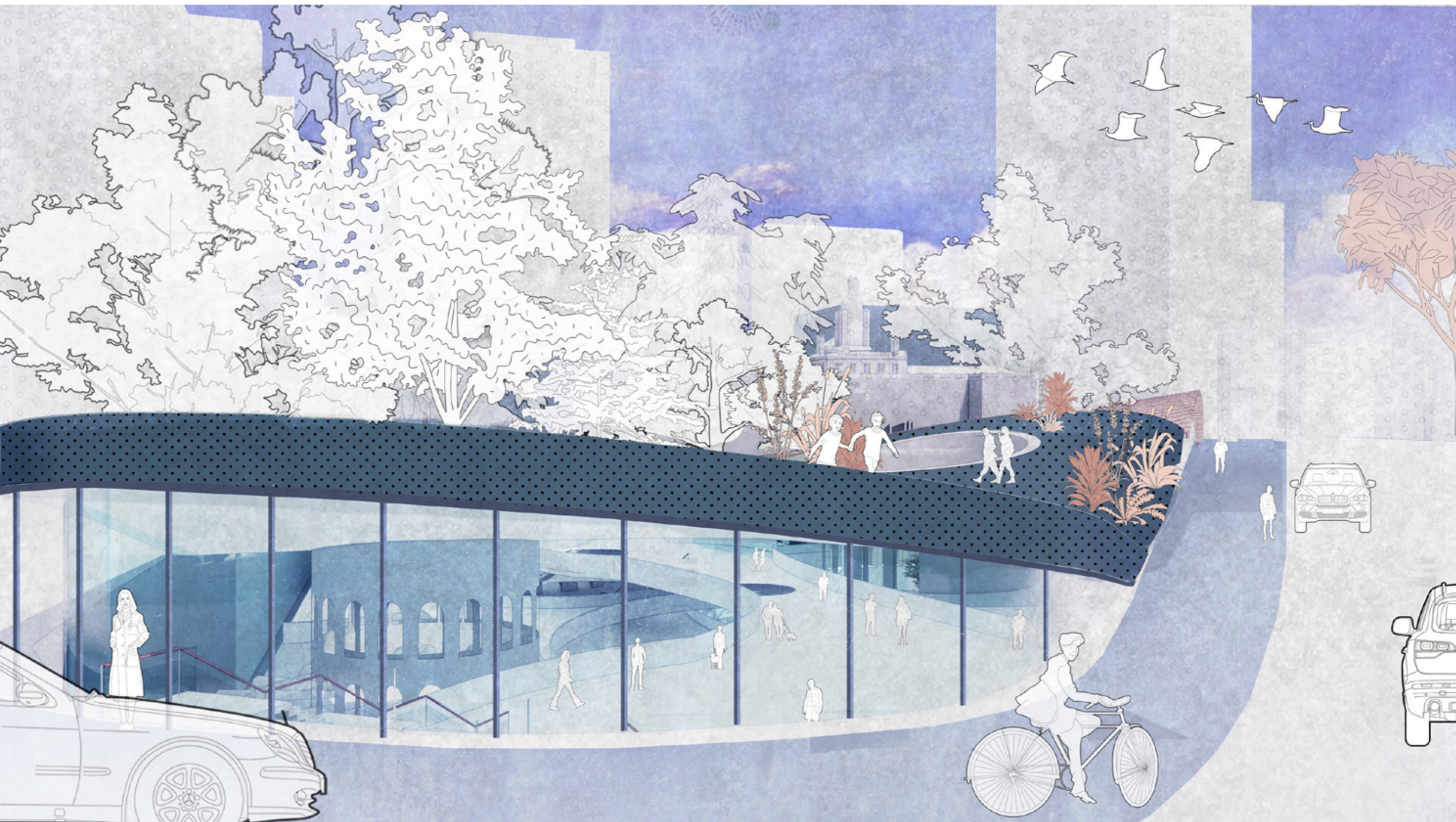


- 1. new york city hall museum
- 2. new york city hall loop
- 3. tweed courthouse
- 4. office
- 5. dorm
- 6. kitchen
- 7. courtyard
- 8. waiting area
- 9. workshop room
- 10. library / archive
- 11. store
- 12. reception lobby
- 13. mayor's office
- 14. governor's office
- 15. mayor's reception
- 16. news / report lounge
- 17. press room
- 18. dining
- 19. council chamber
- 20. board conference room
- 21. judge's office
- 22. courtroom
- 23. hold room
- 24. jury's meeting room
- 25. wedding registration
- 26. urban theater plaza
- 27. souvenir shop





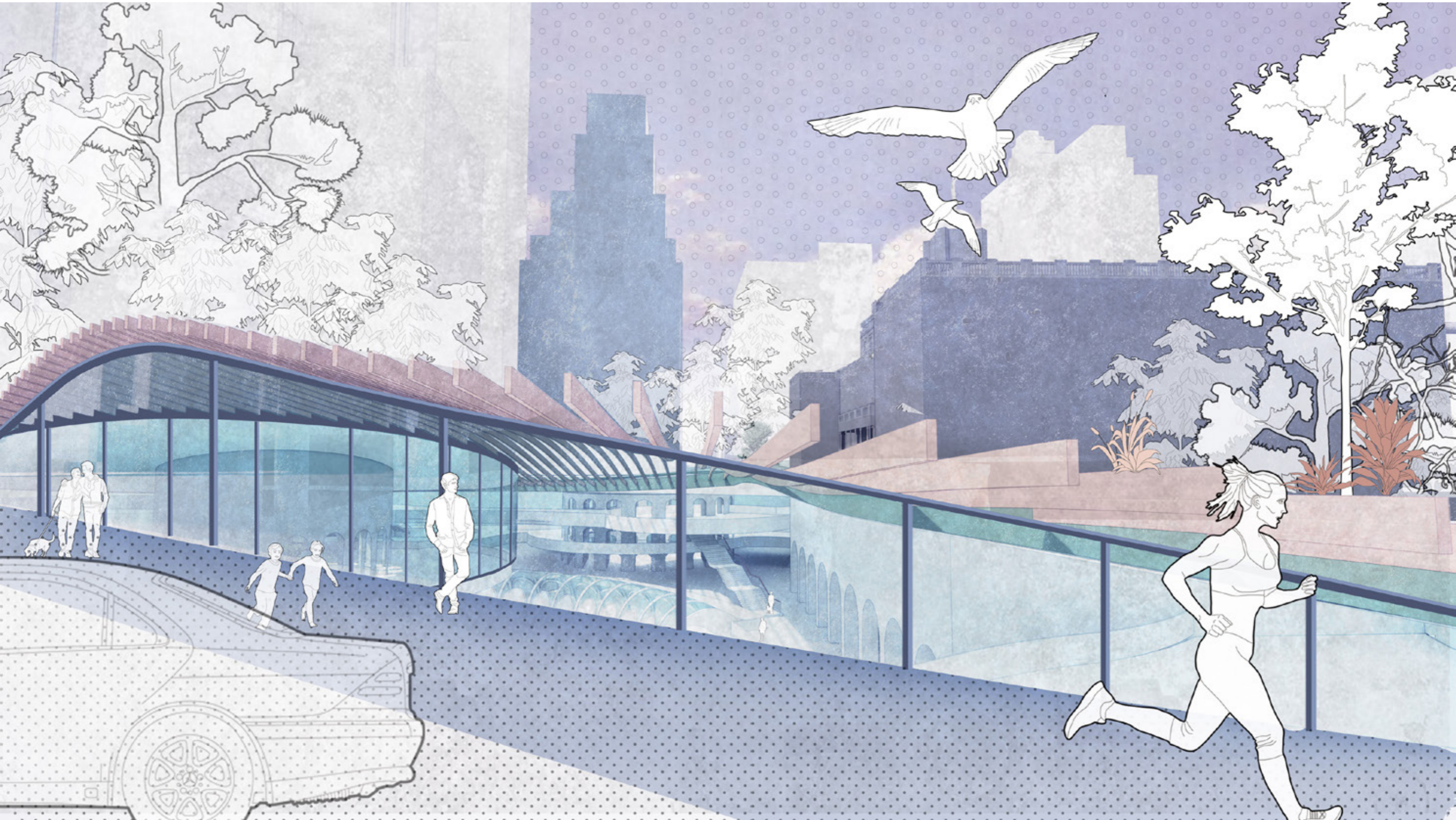
INTERIOR VIEW SHOWING CITYHALL EXIT TO UNDERGROUND TRANSIT CENTER



STREET VIEW SHOWING MAIN ENTRANCE AND NEW CITY HALL PARK ON TOP

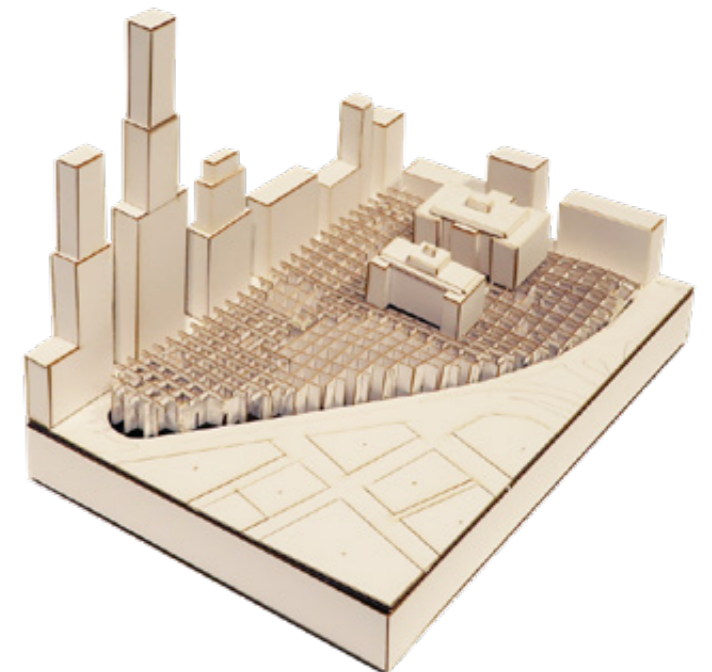
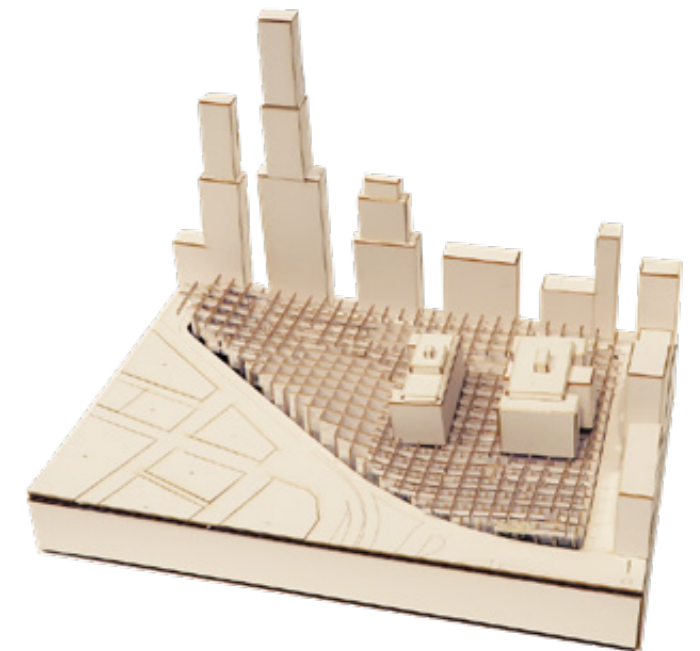
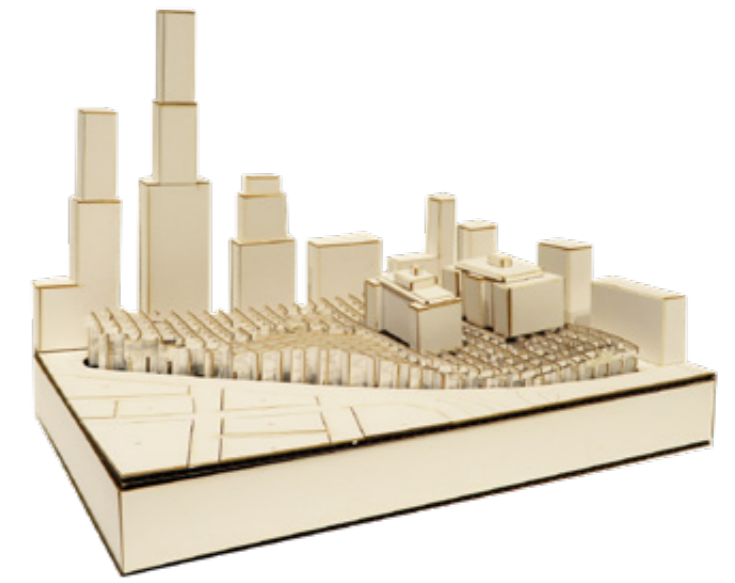
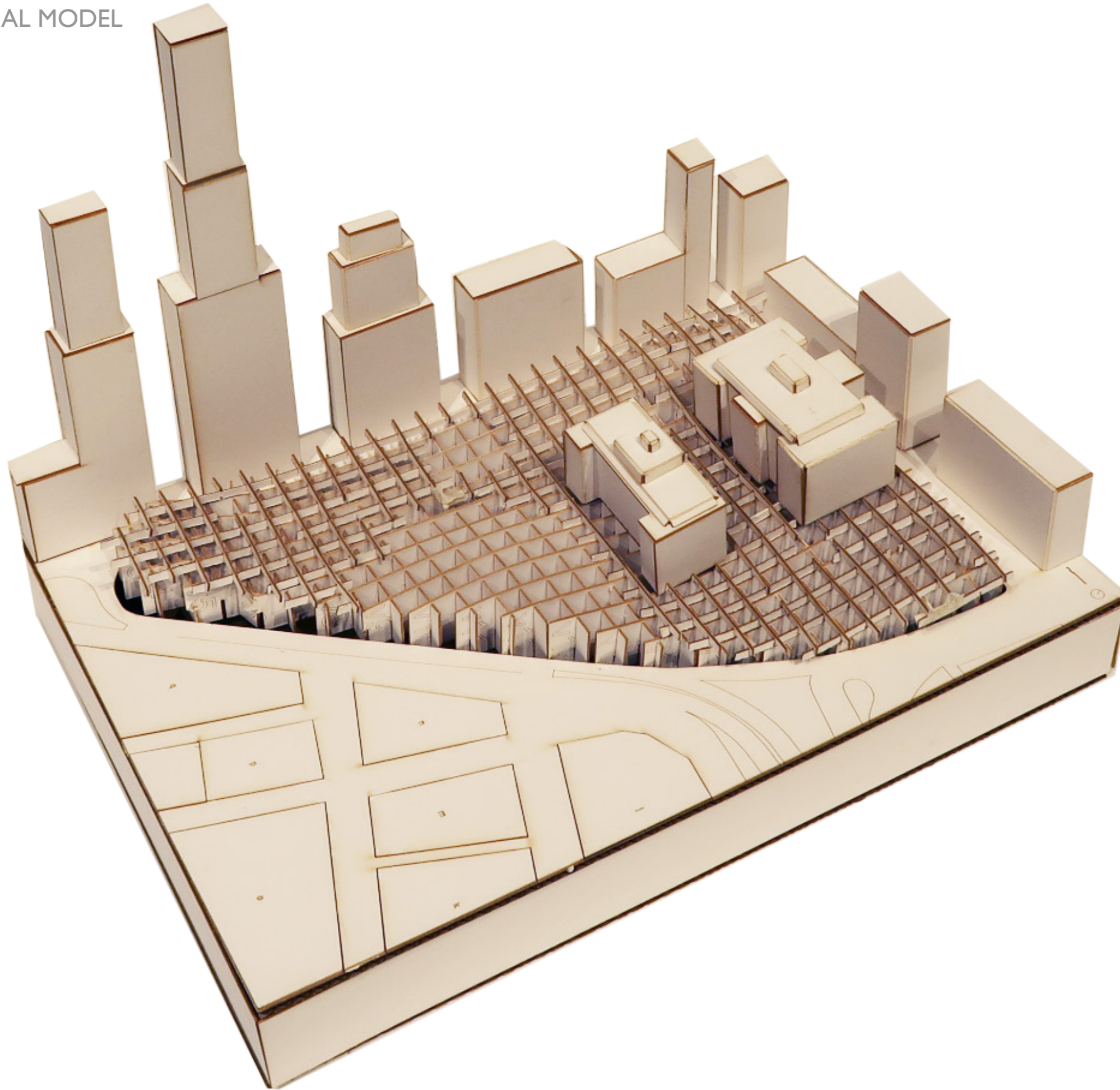


MEZZANINE VIEW SHOWING OPEN CIRCULATION HALL



STREET ENTRANCE FACING BROOKLYN BRIDGE & ORIGINAL CITY HALL AT BACK

PHYSICAL MODEL



# RE-ASSEMBLED BRUTALIST AT&T LONG LINES BUILDING

COLUMBIA UNIVERSITY | NEW YORK  
GSAPP | M.S. AAD  
STUDIO WONNE ICKX | FALL 2022  
TEAM | ANN LONG | SUE KIM

Based on the concept of re-assembling the existing condition of the AT&T long lines building located in Tribeca, lower Manhattan, this project managed to achieve the novel way of reusing historical sites adaptively.

Instead of discarding the existing material as non-degradable landfill, our strategy is to adopt the granite facade panels, concrete floor slabs, terracotta bricks, concrete blocks, and especially the abundant copper wire buried inside the walls. With all those adequate amounts of material, we would be able to design this renovation project with minimum input of new materials.

While these existing materials are being preserved, we re-assembled them into the new form of facade panels. In the unit of each bay, there are steel frames installed on existing superstructures to connect the variety of materials with different depth and thickness. By arranging them into several types of panel modules, we manage to adopt the granite, concrete, terracotta and copper into a myriad material facade. To contrast the thickness and heaviness of the panels over residential units, the public programs are covered with thin glass curtain walls to show off the lively activities brought by diverse public facilities.

The circulation of public and residential are separate spatially but connected visually. Both sectors spread vertically in the way of intertwining like DNA chains. The way they connect is through the special corridor leading residents to the public programs at every floor like the bond in between DNA chains.

What's more, with the existing 17' floor height, the residential units could be manipulated into apartments with sloped roofs that allow the natural light to come through the top into deep floor plates. Between the residential units and public programs are the co-living space accommodating the communal kitchen, multimedia living space, reading lounge and social laundry. All these sub-programs are designed to create living quality and encourage interaction.



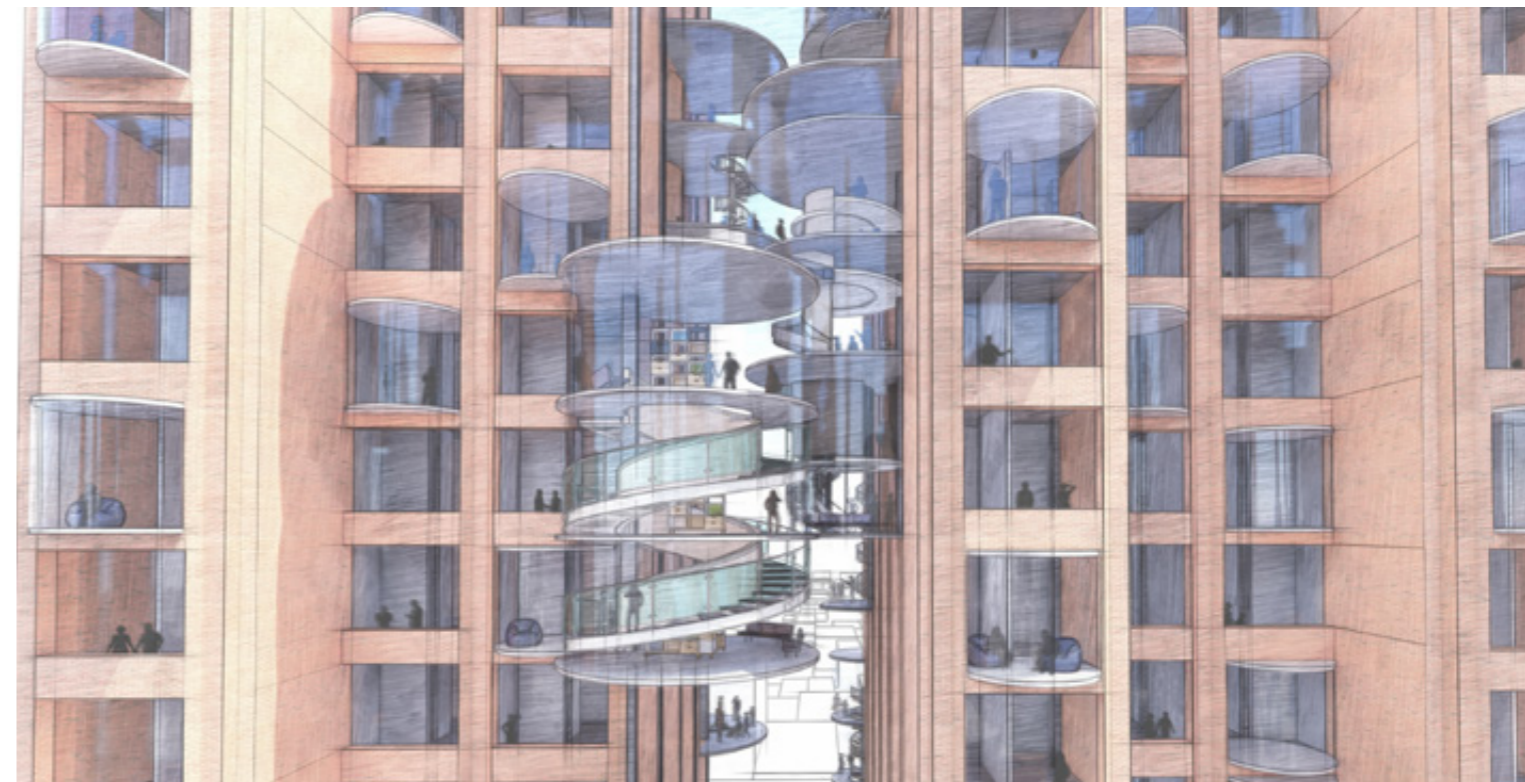
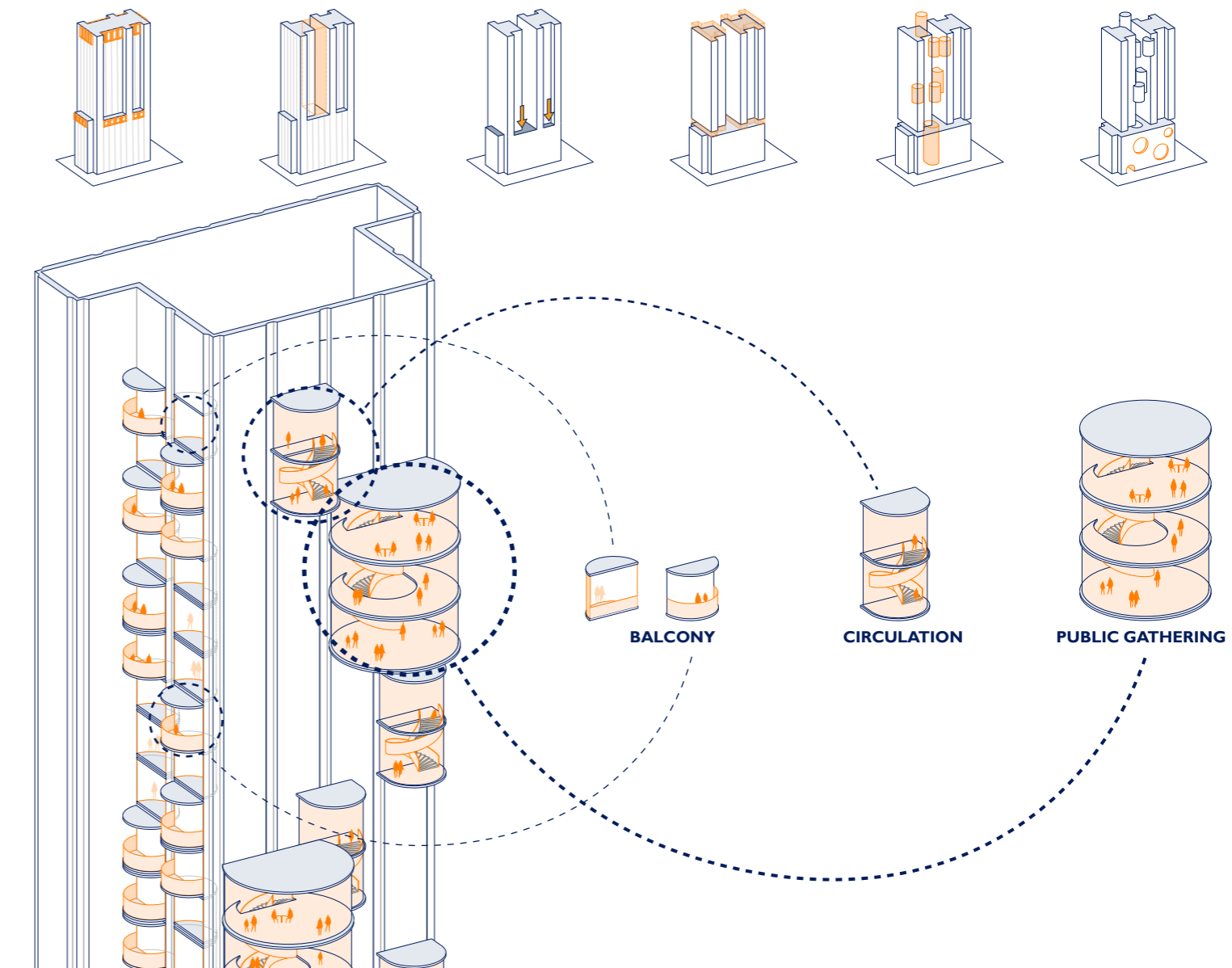


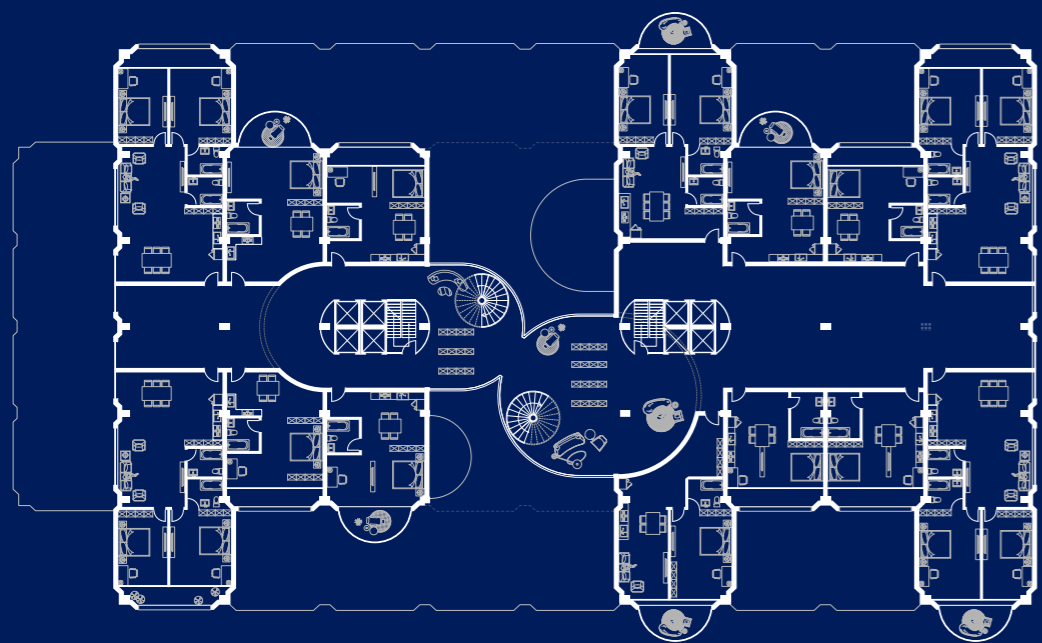
# HUMANS BUILDING FOR ~~MACHINES~~



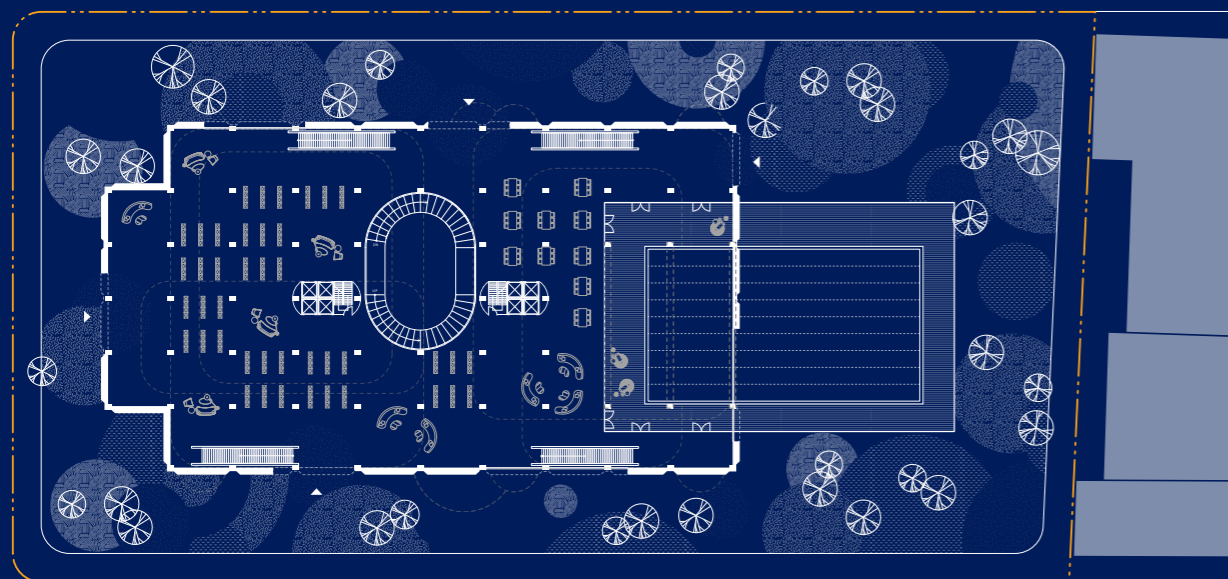
INTERIOR OF THE AT&T LONG LINES BUILDING

## PHASE I : RECLAIM SPACE (MIDTERM)





0 10 30 (FT)



0 10 30 (FT)

DAYCARE

CAFE

ART STUDIO

SPORTS CENTER

THEATER

HEALTH CARE

JOB CENTER

OFFICE

CAFE

GALLERY

LIBRARY

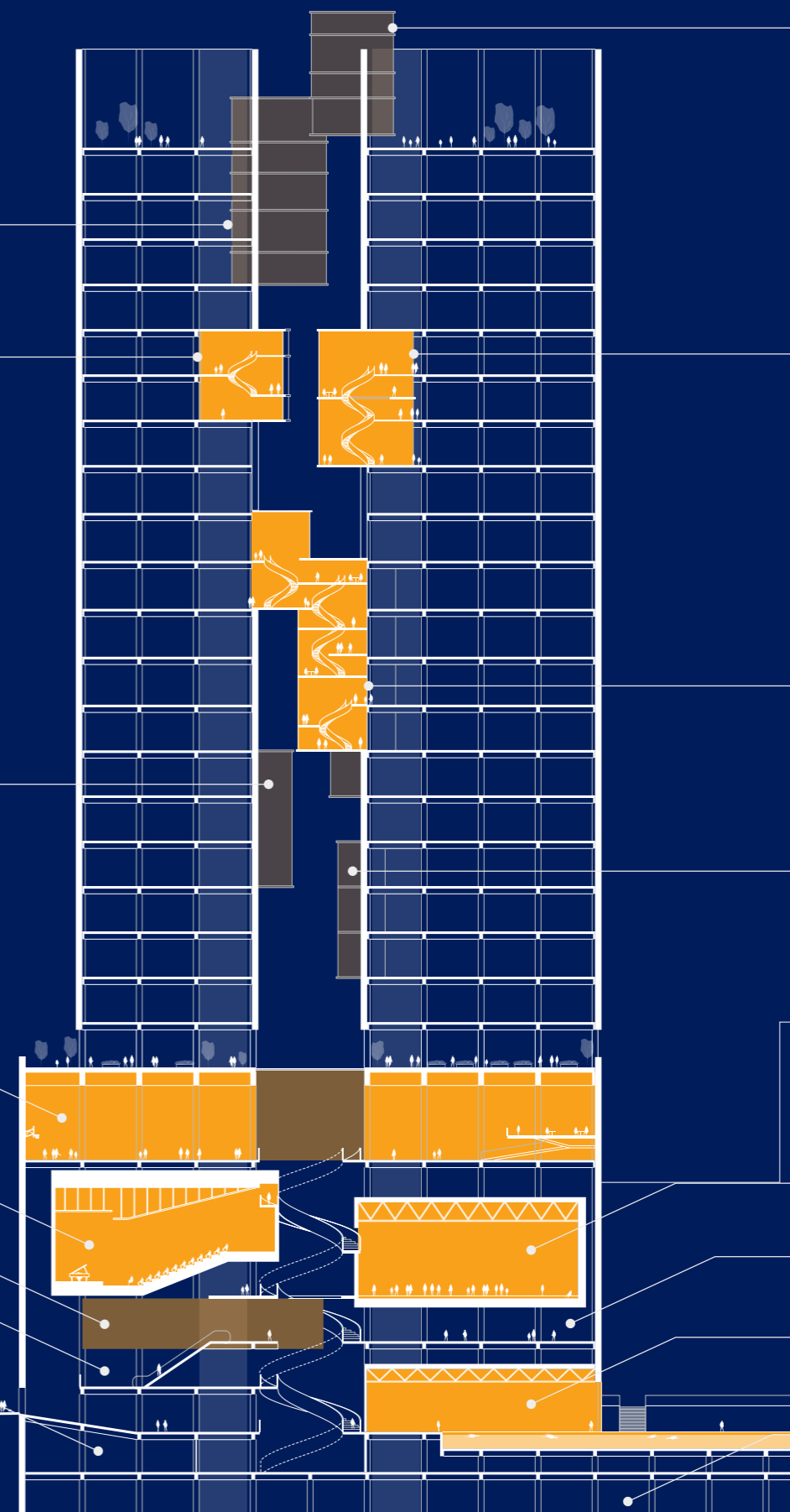
LOUNGE

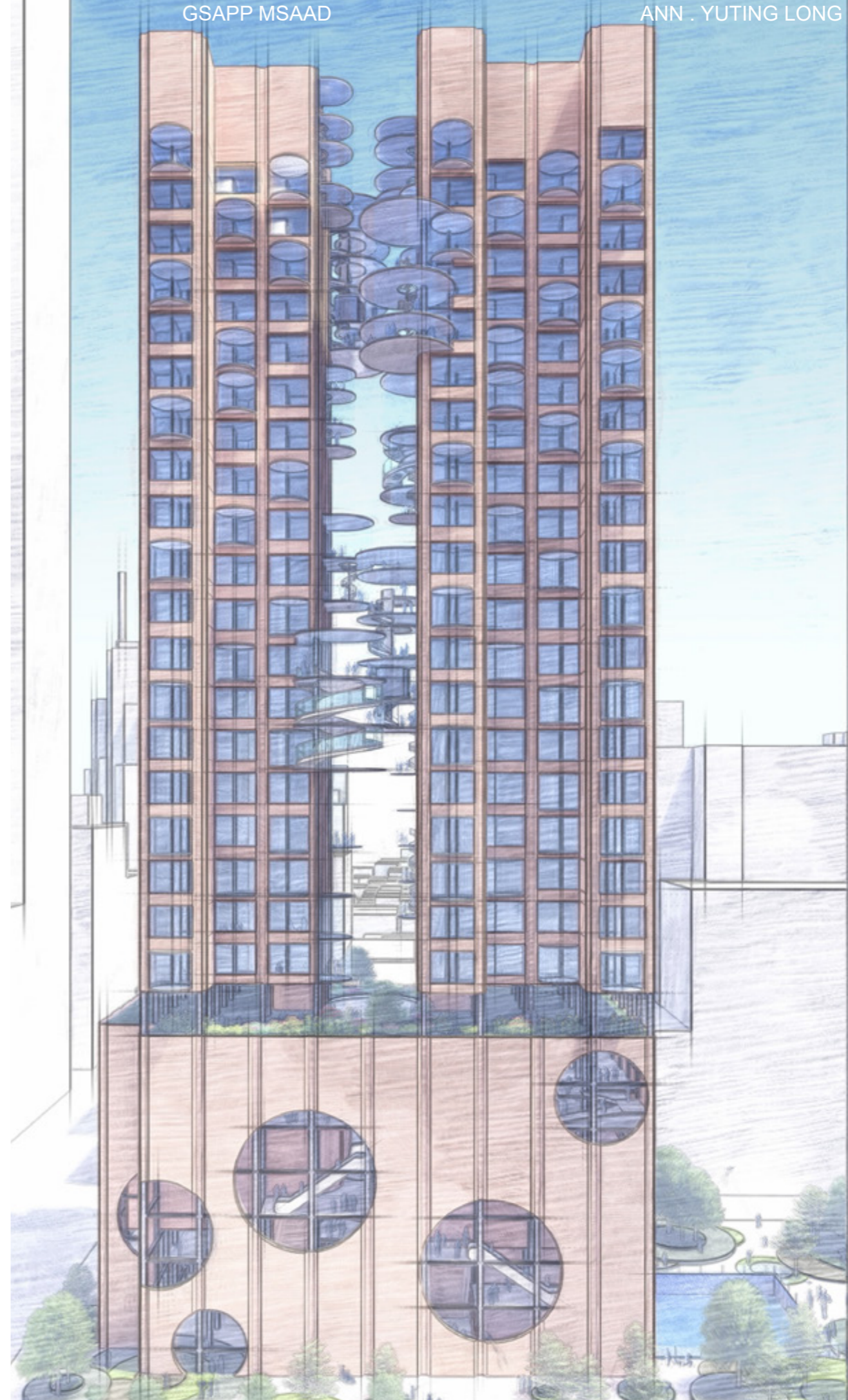
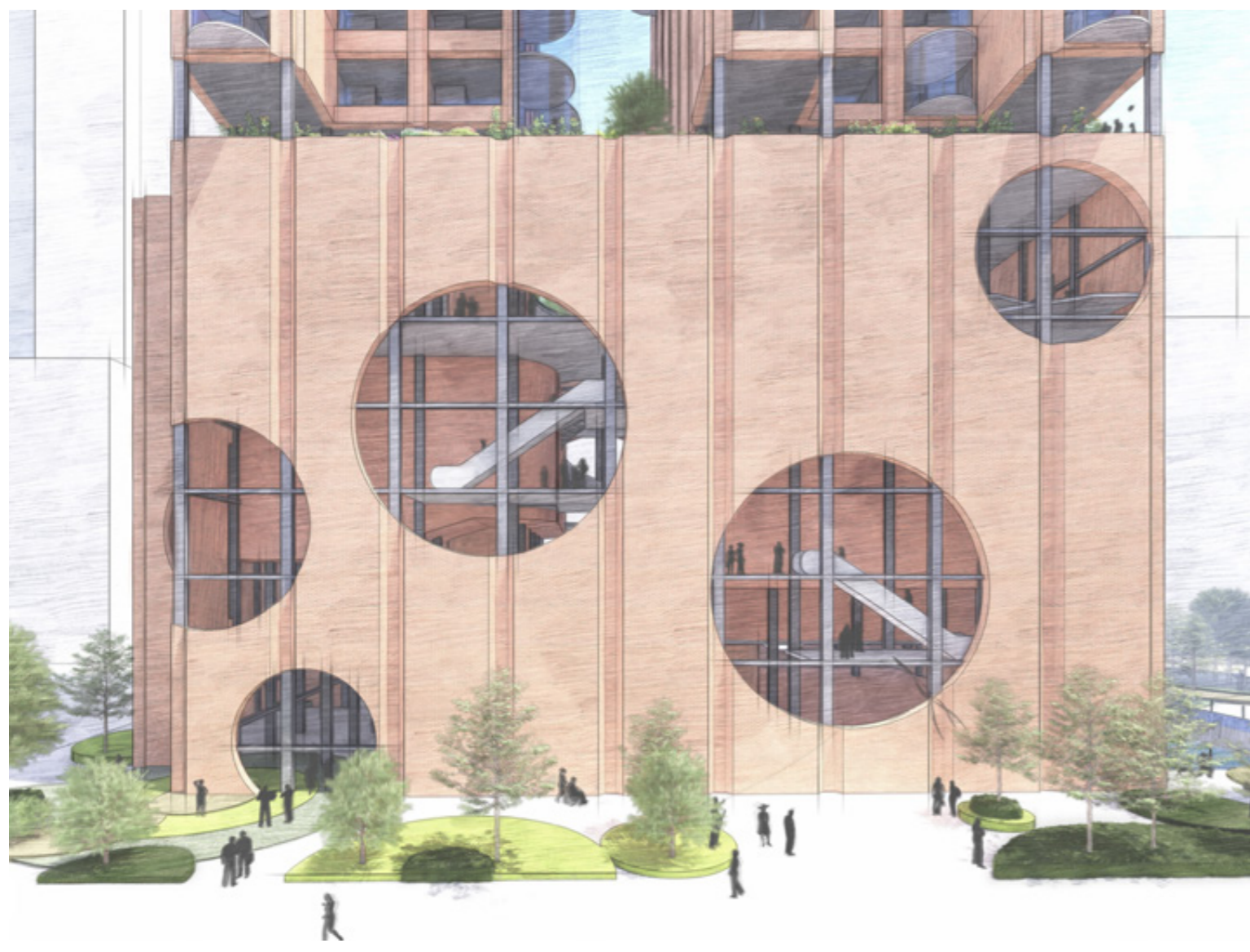
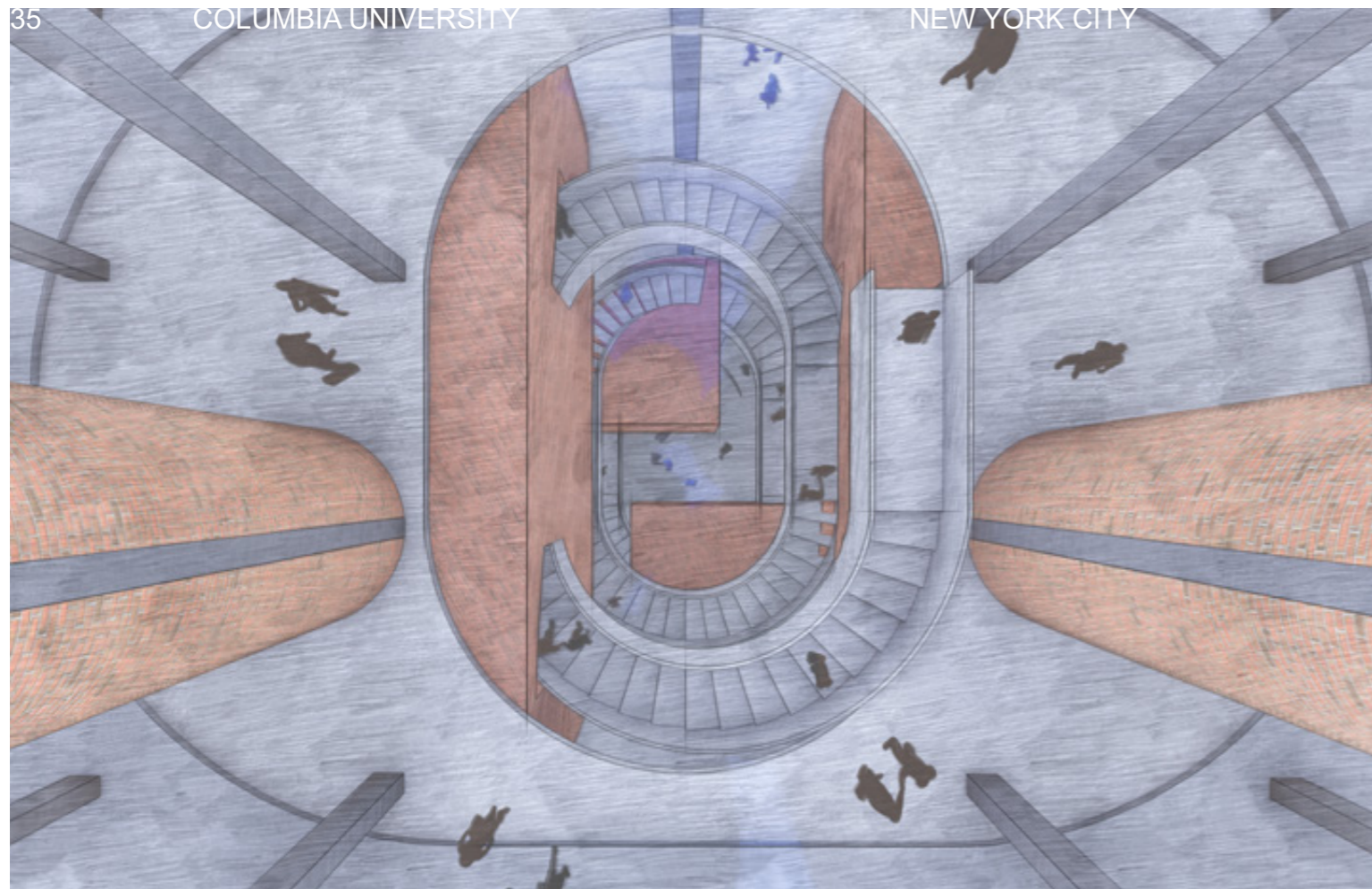
DANCING ROOM

GALLERY

SWIMMING POOL

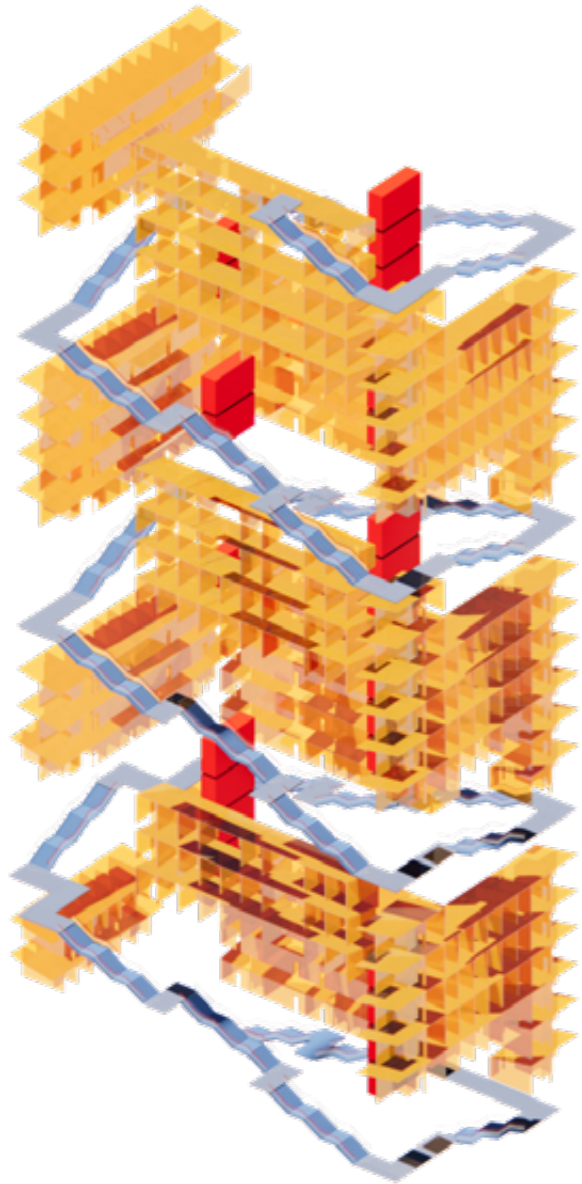
MECH



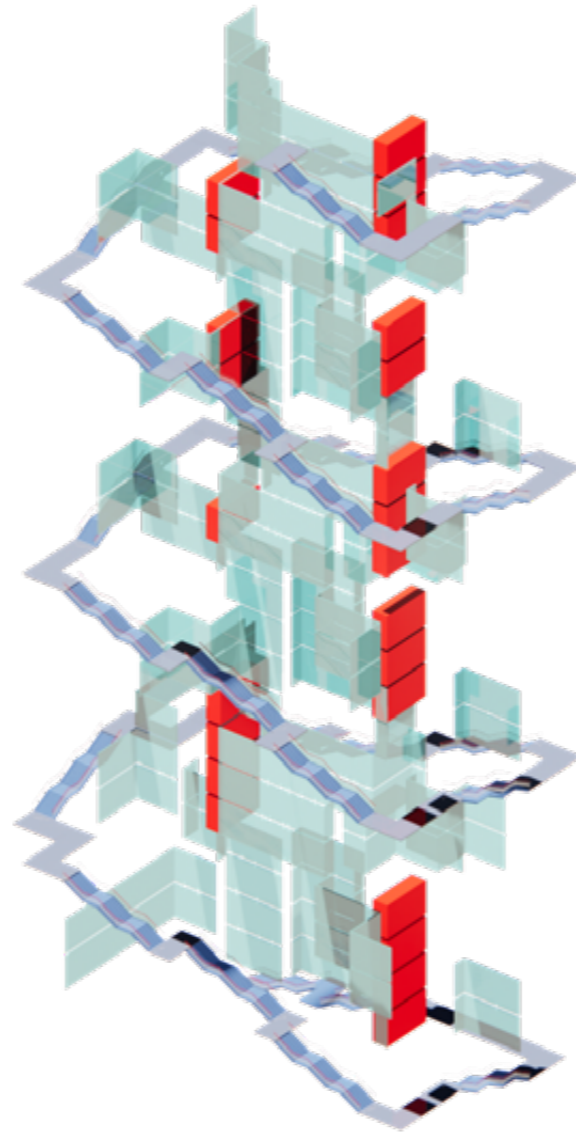


33 THOMAS ST.  
The future co-living hub

# PHASE 2 : RECLAIMING MATERIAL (FINAL)



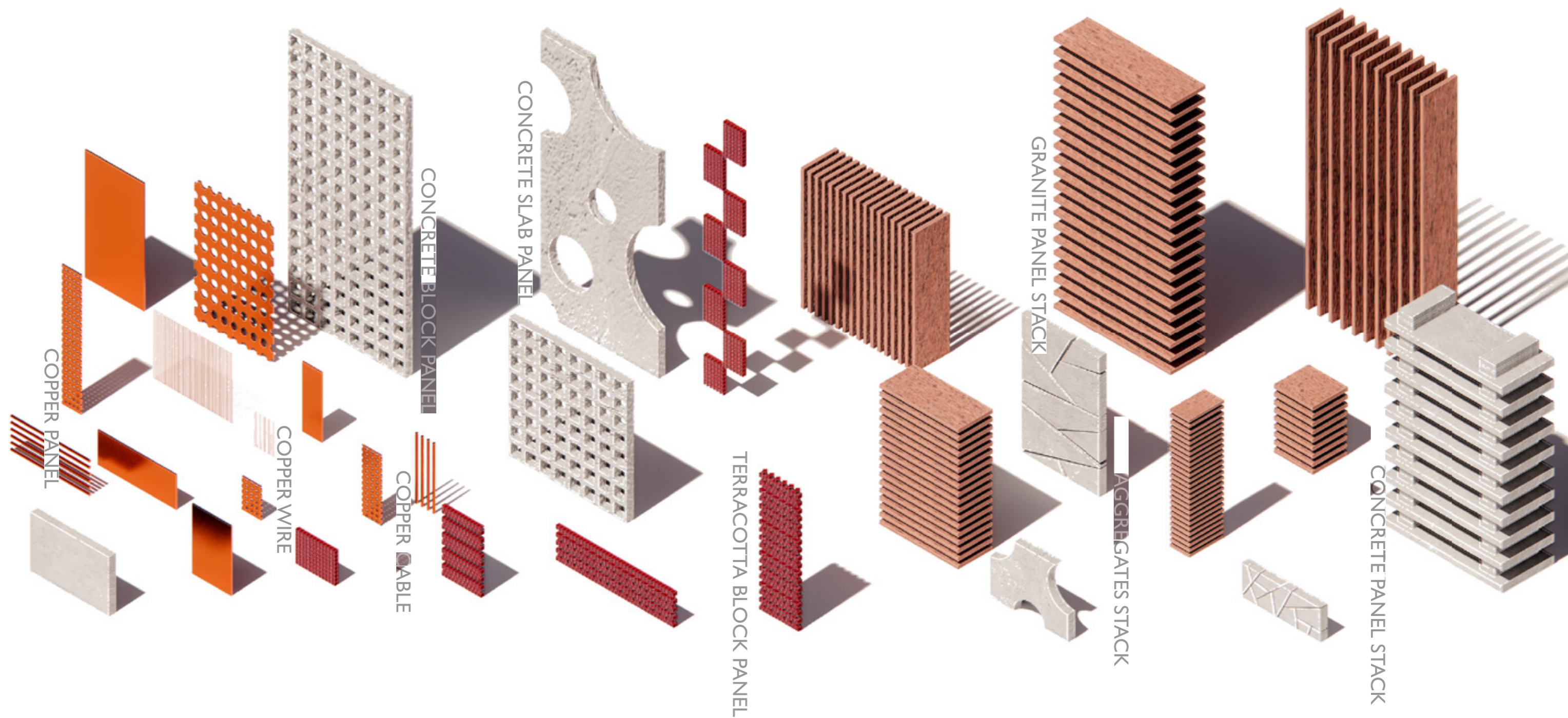
SLOPED ROOF APARTMENTS & CONNECTING CORRIDOR



PUBLIC CIRCULATION & DIVIDING PARTITION



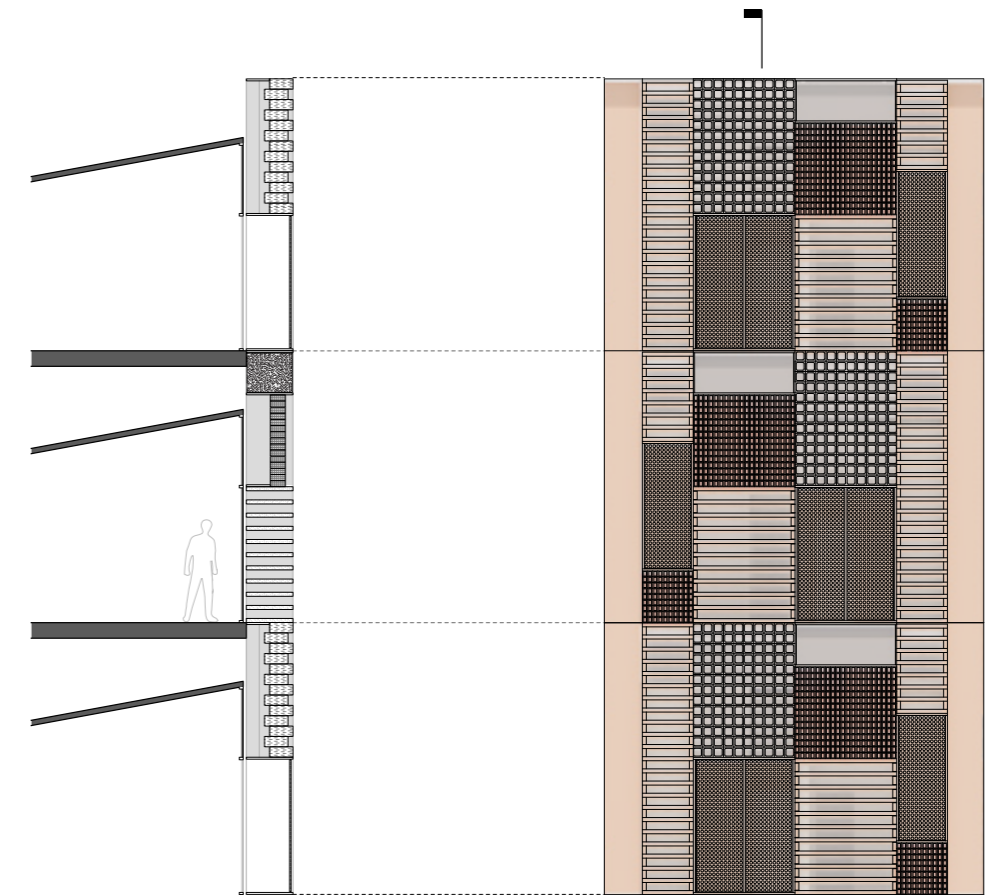
SOLID MATERIAL REUSING PANELS & GLASS CURTAIN WALL



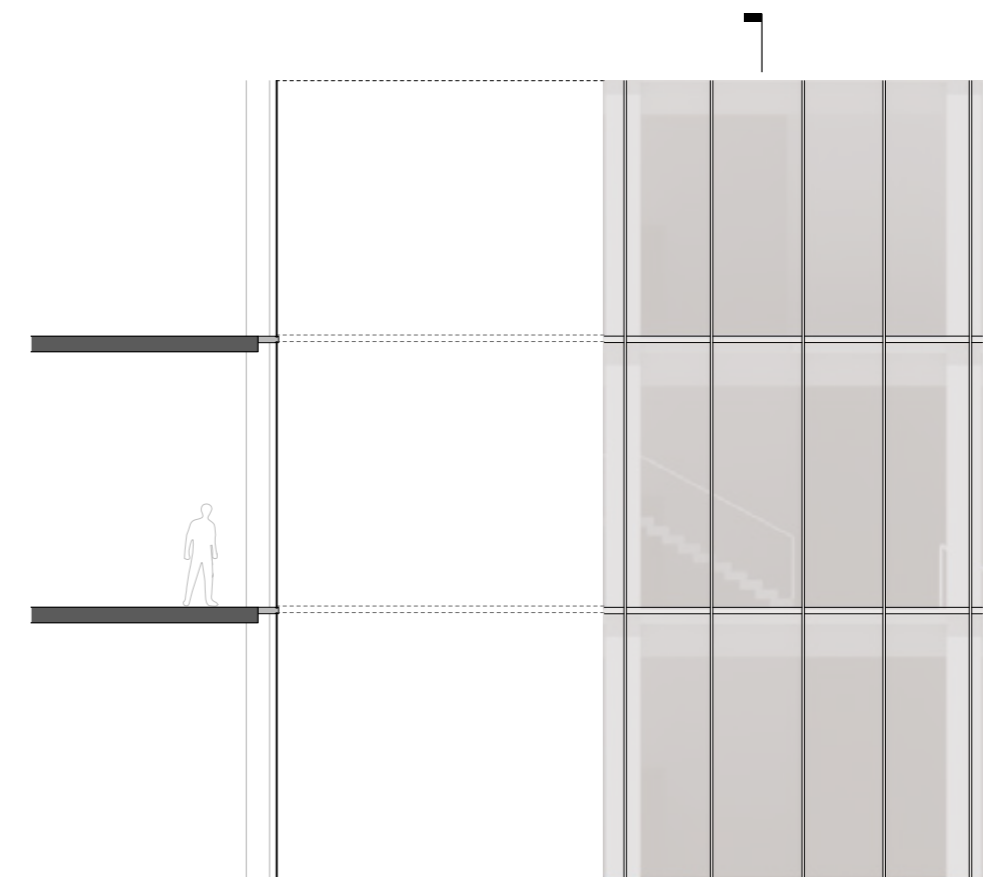
Hollow Terracotta Blocks : 768,984 square feet  
 Copper Cable : 1,278,060 linear feet  
 Concrete Masonry Unit (CMU) : 201,912 cubic feet  
 Reinforced Precast Concrete Panels : 413,490 square feet  
 Granite Slabs : 19,332 slabs



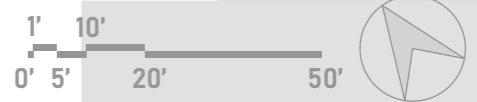
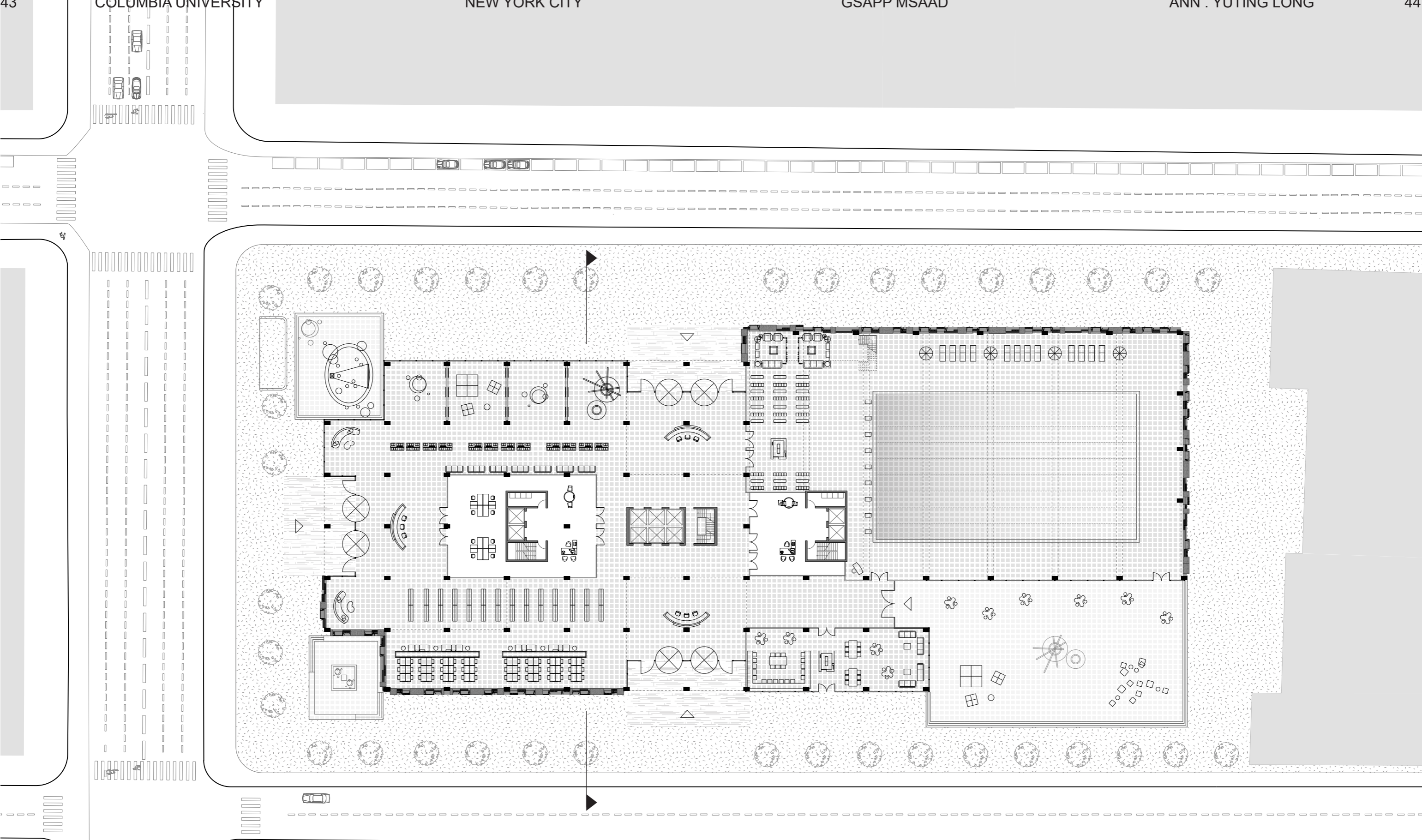
Total Solid Facade Area : 71,584.82 Square Feet  
 Total Solid Facade Volume : 178,962.05 Cubic Feet  
 Total Glazing Area : 45,210.45 Square Feet  
 Solid Facade Ratio: 61.3%  
 Glazing Facade Ratio: 38.7%



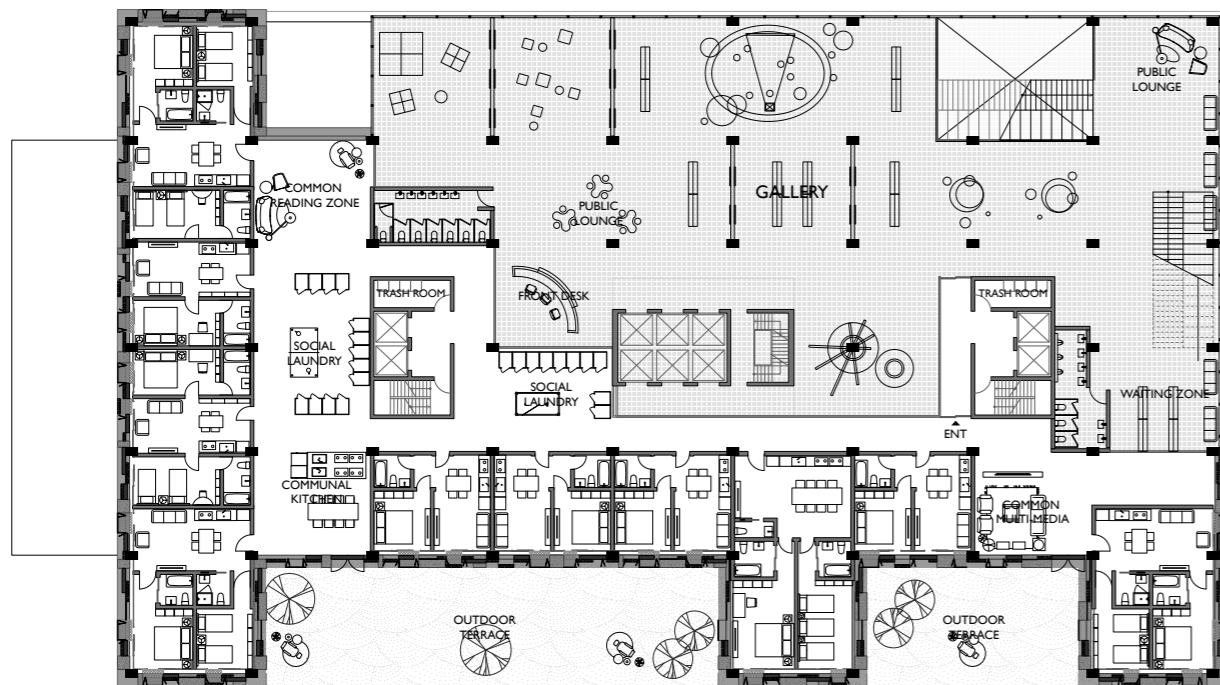
RESIDENTIAL PROGRAM



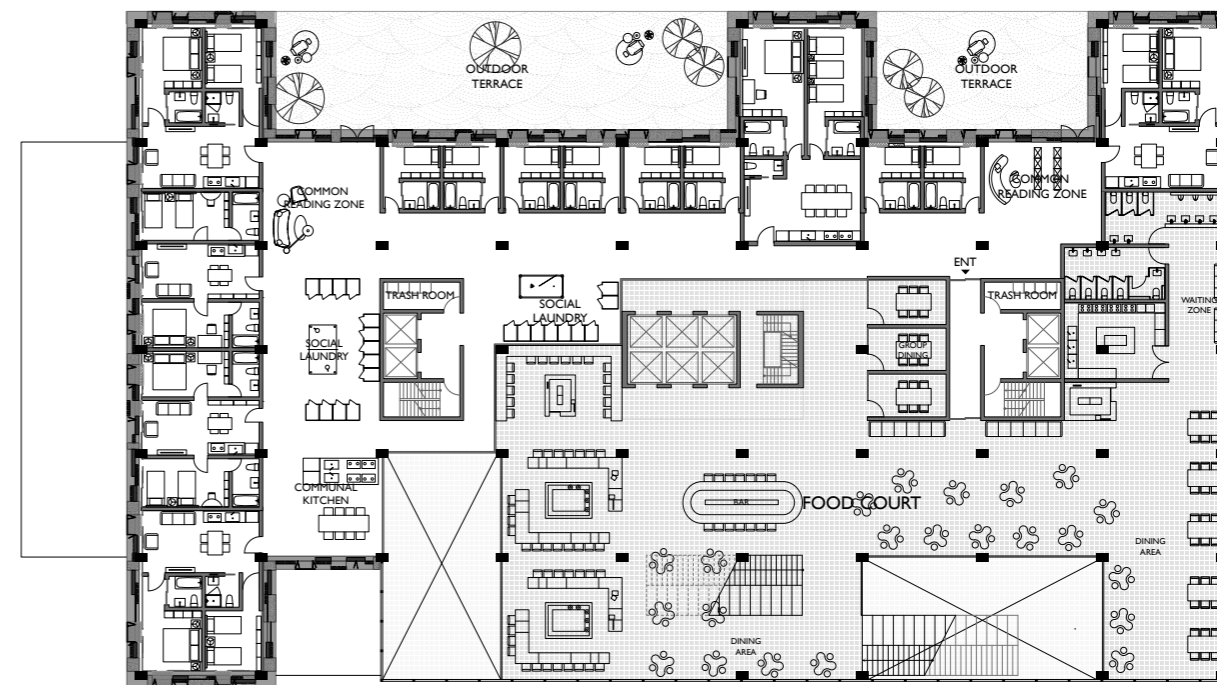
PUBLIC PROGRAM



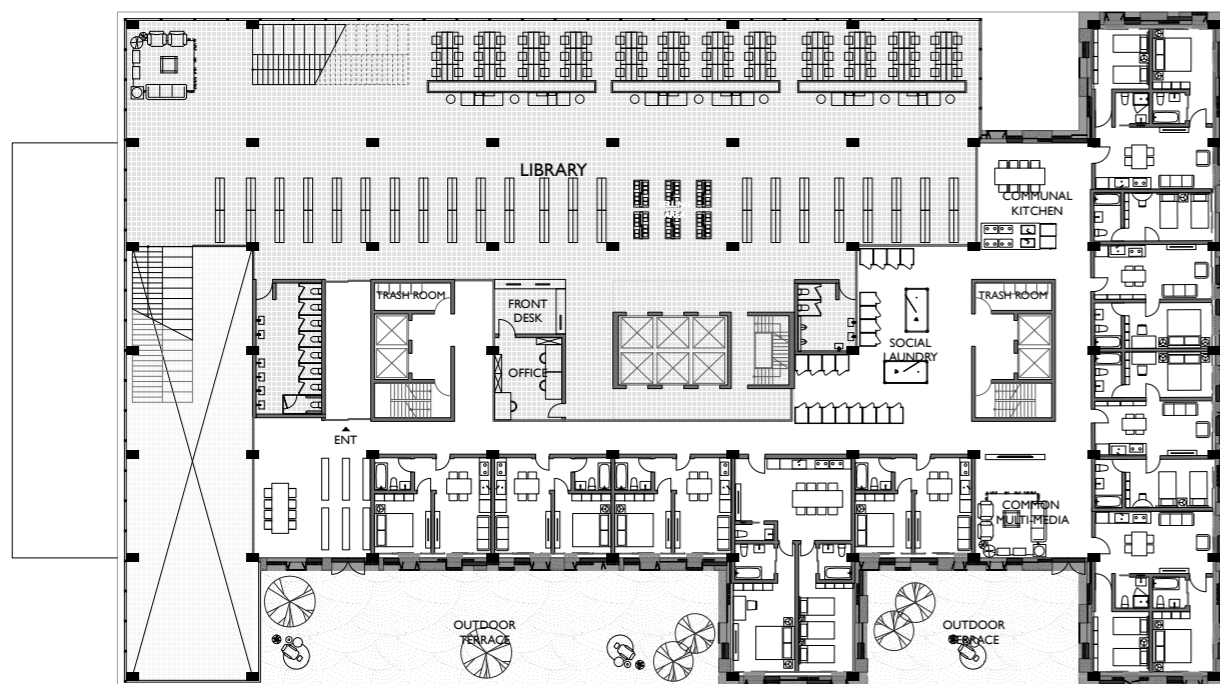
GROUND FLOOR PLAN



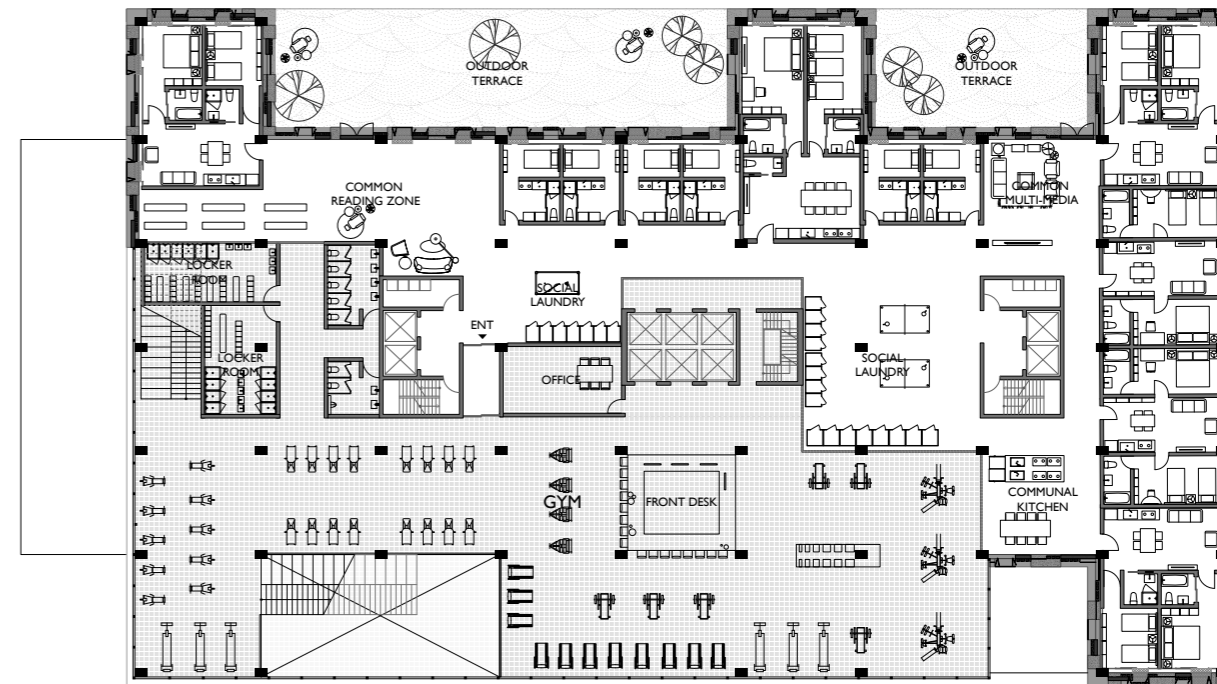
18TH FLOOR PLAN



20TH FLOOR PLAN



15TH FLOOR PLAN



21ST FLOOR PLAN







SECTION PERSPECTIVE



UNIT SECTION

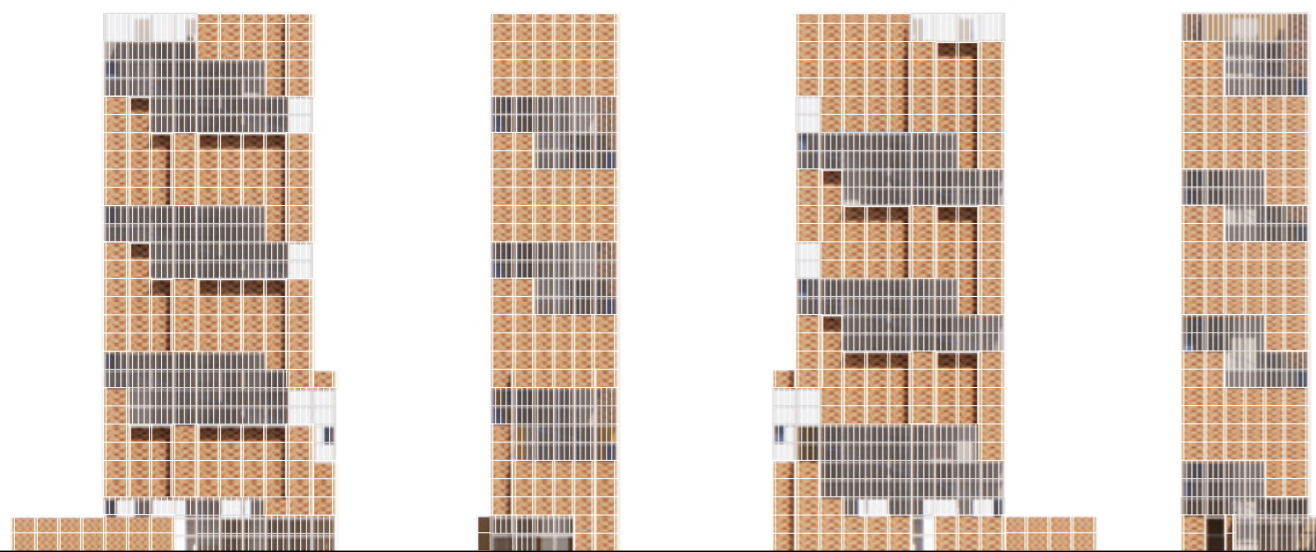


NORTH

WEST

SOUTH

EAST



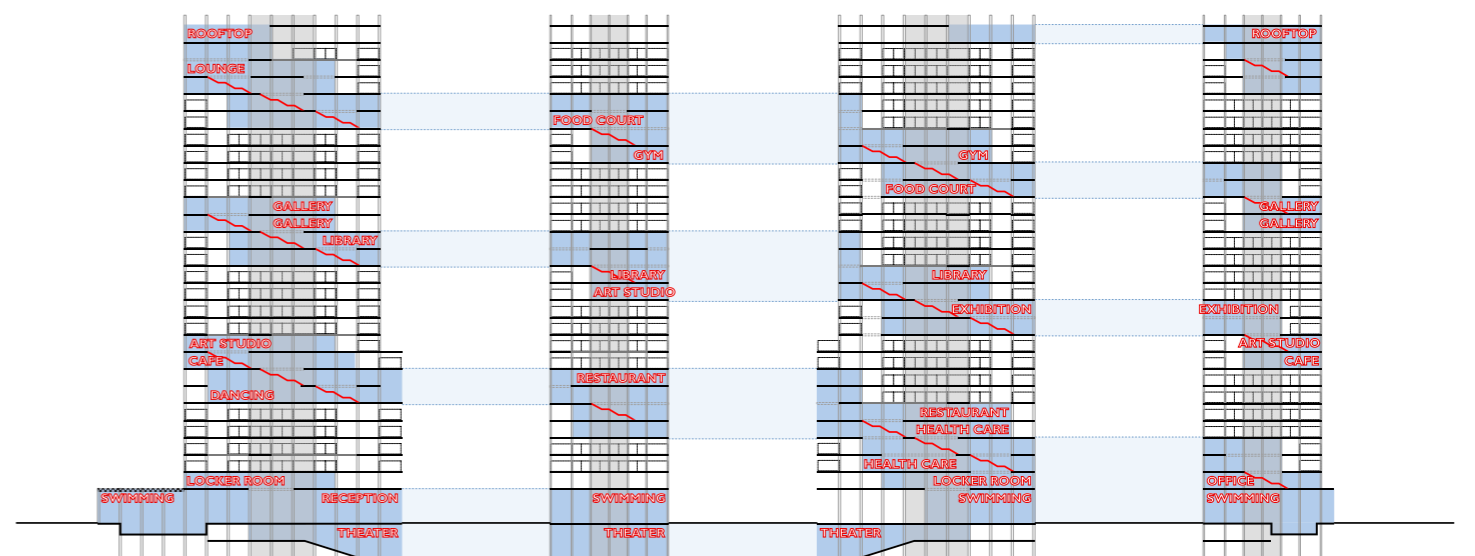
ELEVATION

NORTH

WEST

SOUTH

EAST



PROGRAMMING DIAGRAM



VIEW SHOWING TYPICAL APARTMENT WITH MATERIAL REUSING PANELS



VIEW SHOWING COMMUNAL KITCHEN LOOKING THROUGH PUBLIC GYM



CORRIDOR CONNECTING RESIDENTIAL AREA



SWIMMING POOL LOOKING OVER GROUND FLOOR PLAZA DURING WINTER



PUBLIC STAIRS CONNECTING PROGRAMS ON DIFFERENT FLOORS

PHYSICAL MODELS





# THE 'CURSED' EDEN GARDEN

## CIRSIUM VULGARE | SPARE THISTLE

COLUMBIA UNIVERSITY | NEW YORK  
 GSAPP | M.S. AAD  
 STUDIO NEREA CALVILO | SUMMER 2022  
 TEAM | ANN LONG | RUNXIN FU

This project was inspired by the Bible Genesis, which tells the story of God punishing Adam and Eva through the toil of eating food from the field and growing painful thistles. We rearticulate Genesis by illustrating a hypothetical phenomenon of future New York City as the Cursed Eden Garden. Spear thistle has been considered a noxious, non-native, invasive weed that has been banned by communities and even regulated by law. We apply different actors to trigger the four distinct forms of spear thistles to allow this weed to grow and reproduce, feed insect species, and help produce food in the community garden. However, human society tries to build "Eden Garden" upon the waste colonialism towards other regions worldwide. Spear Thistle practices her physical property as a litter collector, possibly mitigating the waste colonialism process and turning it into the curse originated by human actions. In this project, we examine the relationship between "bad" plants, the ecosystem, and human society by showing the consequence of extreme situations of so-called invasive plant spear thistle and environmental clean-up human actions.

**1500 BC**

**810** **Charlemagne**  
According to fable, the thistle plant cured the illness similar to plague afflicting Charlemagne's troops.

**1263** **Down Substitute**  
Thistle flower was prized during the Middle Ages for its herbal properties, and by the poor who used its fluffy "down" to stuff mattresses, because they can not afford the luxury down feather of goose or duck designated for royal families.

**1300s** **Black Death Remedy**  
The thistle has been used in traditional medicine to cure or alleviate a medley of illnesses for centuries. Once considered a cure-all, the thistle was even recommended as a remedy for the plague.

**1346**

**1470** **Thistle Coin**  
First thistle coin was issue in 1470 by James VI with the motto "No body touches me with impunity". Thistle continued to appear in thistle until 2008

**1502** **Noble Marriage**  
The poem "The thristill and the Rois" penned by Scottish poet William Dunbar, was influenced by marriage of Princess Margaret Tudor and England King James IV of Scotland

**1680s** **Colonial Transportation**  
Most European colonies were settled after 1600. The spear thistle was transported to North America happen when it was deliberate introduction as an ornamental plant.

**1687** **Order of Thistle**  
Scotland's premier Order of Chivalry was established. The members of the order wear a collar chain with thistle.

**1837**

**1890s**

**1926**

**1959**

**1990s** **Art Inspiration**  
Thistle plant is often appeared in contemporary art works.

**2000s**

**2016** **Reputation Remedy**  
Nowadays, people found the root of spear thistle can be boiled and made into veggie soup. They are also used as a remedy to treat fatty liver

**2020**

**1500 BC**

**Bible Genesis**  
Cursed is the ground because of you; through painful toil you will eat food from it all the days of your life. It will produce thorns and thistles for you, and you will eat the plants of the field. By the sweat of your brow, you will eat your food until you return to the ground.

**1263** **Battle of Largs**  
In 1263, the invasion band of Viking lead by King Haakon of Norway tried to attach Scottish Clansmen at night, removing their footwear. One shrieked out when stepping on ground covered in thistle and Clansmen were alerted. Then spear thistle was chosen by James II for Scotland's emblem as symbol of defence.

**1300s**

**1346**

**1470**

**1500s**

**1502** **Tarot | Threat**  
Thistle was used as metaphor for trouble. When Thistle appears on a tarot card, it usually represents and unseen threat.

**1680s** **Spread Worldwide**  
There was a permanent risk of invasion by thistle due to accidental transport of contaminated agricultural products such as seeds or fodder. The they invade through out continent.

**1687**

**1837**

**1890s** **Plant of Intrusion**  
In Victorian times, the thistle was known as the flower of intrusion or used as a warning against unwanted meddling.

**1926** **Dow Agro Sciences**  
The chemical company suggest that over 200,000 hectares of grassland in Ireland are infested with thistle.

**1959** **Hugh Macdiarmid**  
A Drunk Man looks at the Thistle, penned by Hugh Macdiarmid is A poem of extremes, it examines a wide range of cultural, sexual, political, scientific, existential and the condition of Scotland.

**1959** **Week Act 1959**  
Spear thistle was categorized as one of the five weeds labelled "injurious" under the act. If an occupier failed to prevent the growing of act, they shall be guilty of an offence.

**1990s** **Thief & Witch**  
Scaremongering of thistle lead to the fare towards the plant. Neighborhood ban it, and it is related to witchcraft in arts

**2000s** **International problem**  
a major overview of 400 scientific papers in 1 year are about different methods of controlling spear thistle.

**2016**

**2020**



Birds look for Teasel in winter  
porch legs after plants have died

4.7 in  
5.1 in

SEDUCTIVE | PROTECTIVE



Goldenfinches

- granivores (mainly eat seeds)
- Thistle seeds are goldfinch favorite
- other food source (plants/vegetation/tree sap, fruits, berries)
- small amount of insect in summer (breeding)
- attracted to plants with small, fine seeds

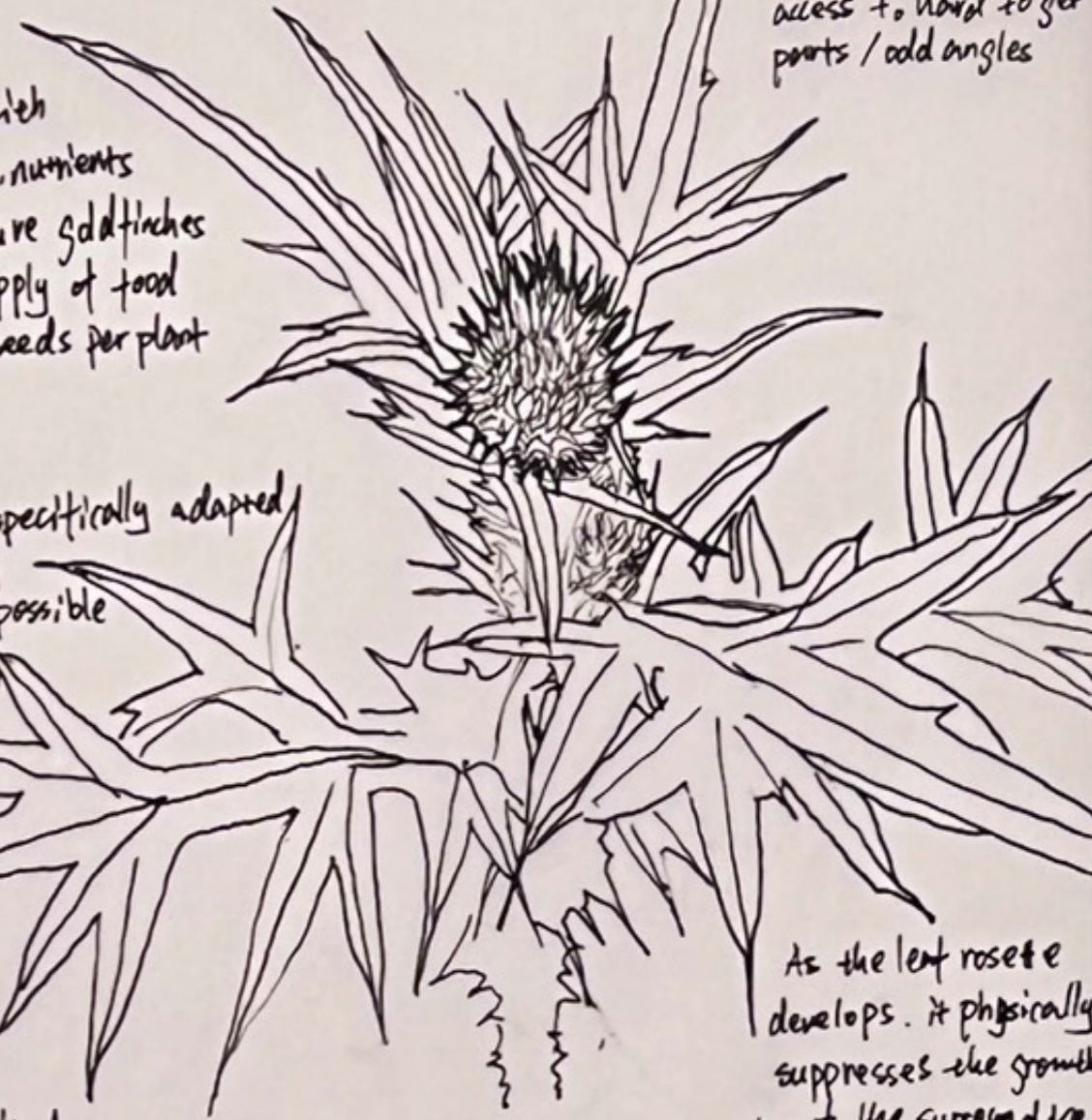
Acrobatic Eating Habit  
- being able to cling to sides or even feed while upside down  
- helps goldfinch gain access to hard to get parts / odd angles

Spear Thistle Seeds

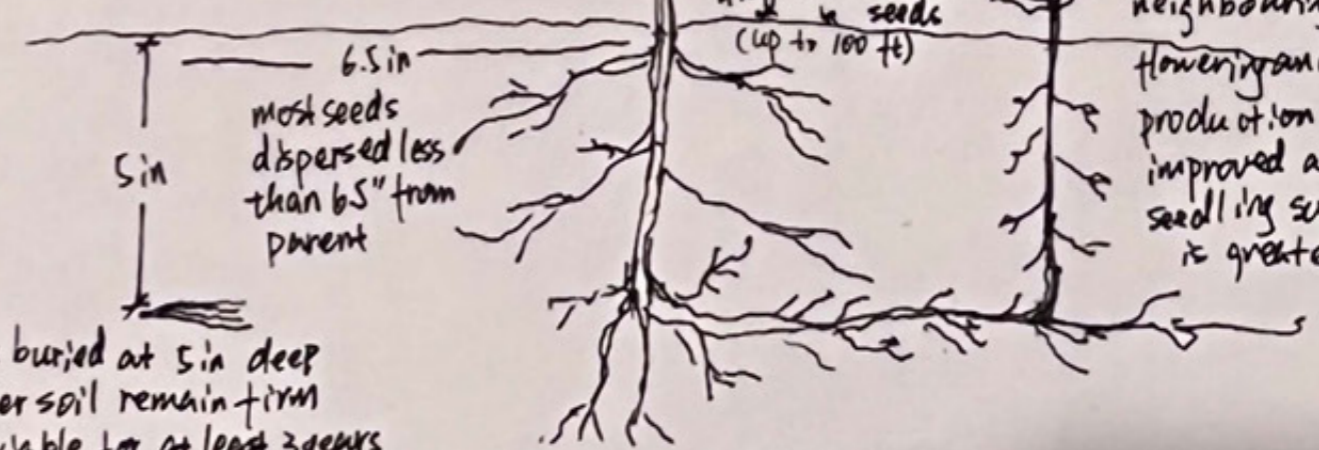
- provide gold finch with carbohydrates, fats, nutrients
- grow quickly & ensure goldfinches have abundant supply of food with up to 8400 seeds per plant

Advantage

- Goldfinch's beak specifically adapted to extract as many of these seeds as possible
- beak act as tweezers to pull out small delicate seeds.



Robust Biennial or Short-lived monocarpic perennial



Seeds buried at 5 in deep heavier soil remain firm and viable for at least 3 years

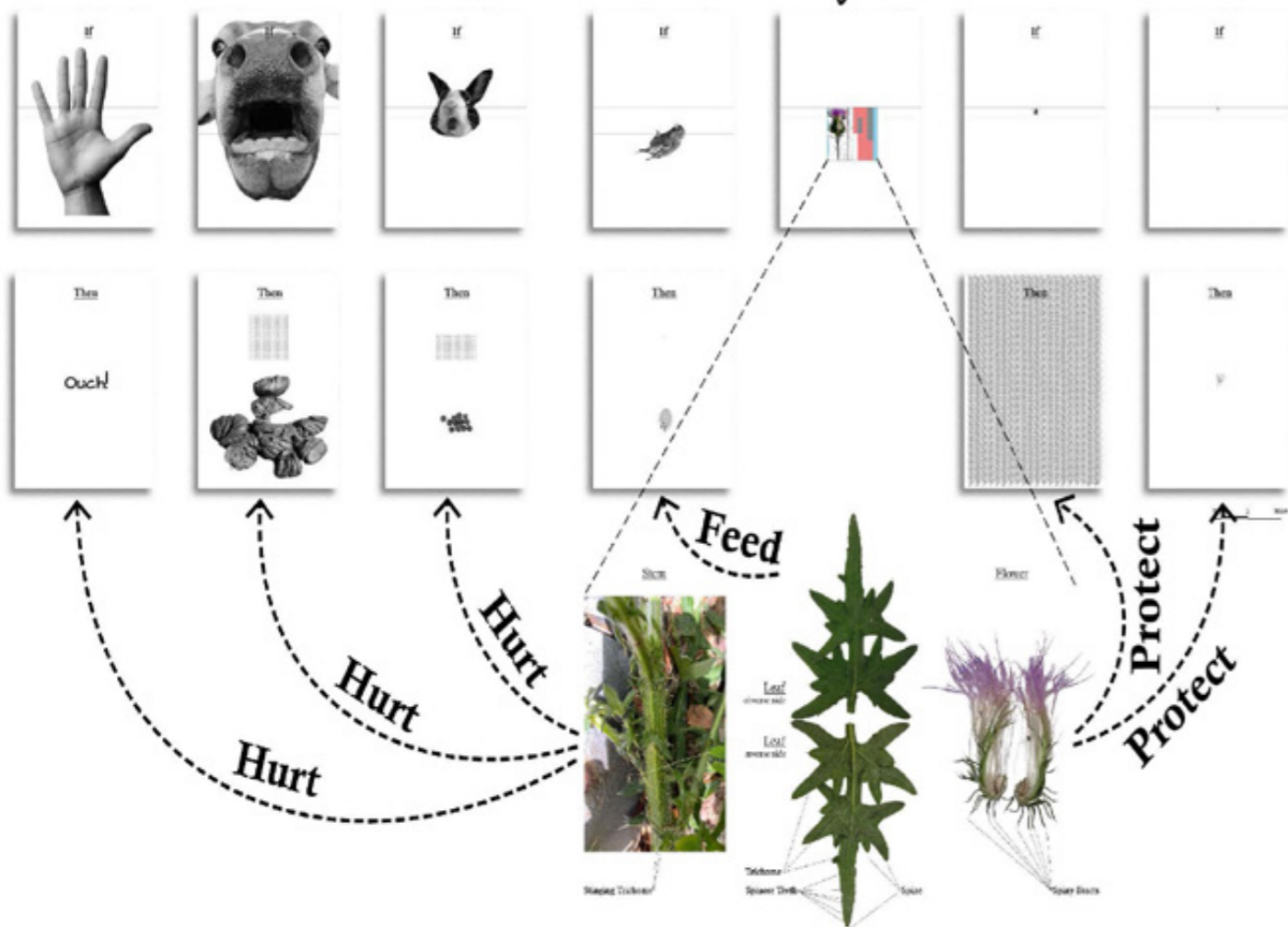
# LOCATION & CONDITION | DVITA

AMSTERDAM AVE & 119TH





- other unwelcomed plants
- dead leaves & branches in crack
- food waste & tissue
- citi bike docks since fall 2017
- masks since 2020
- limited sunlight per day
- ants bugs flies
- spider web


## SCALE SYSTEM "Good or bad" is a Scale System!

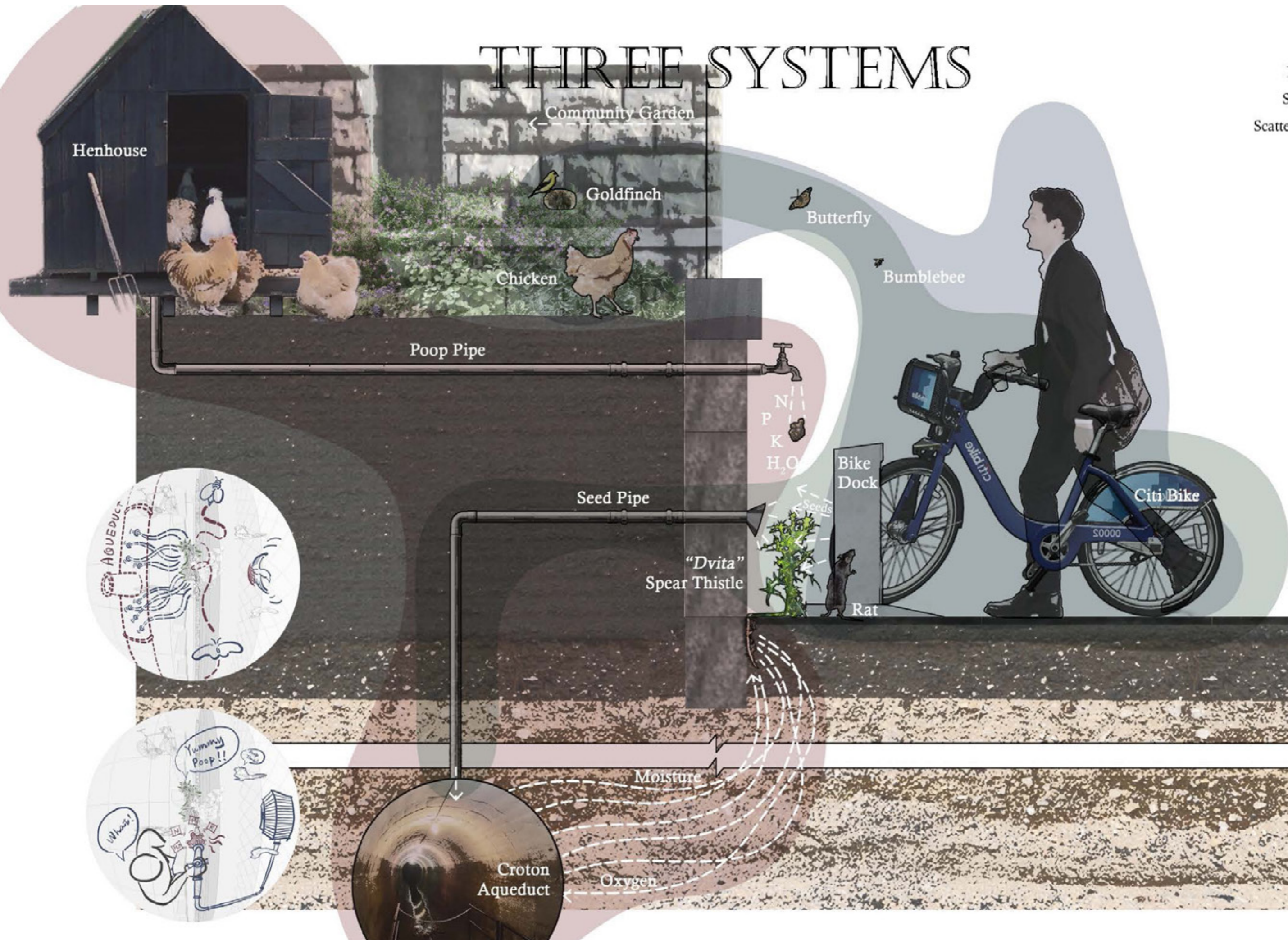


# THREE SYSTEMS

Pipe System 

Scale System 

Scattering System 



1.800

1.600

0.800

0.250

±0.000

-0.120

-120.000

# LITTER COLLECTOR



litter caught on thistle spikes

heavier litter on ground

degradable (food) waste

non-degradable (bottle,can) waste

chicken manure compound

fabric waste (cloth, sheets)

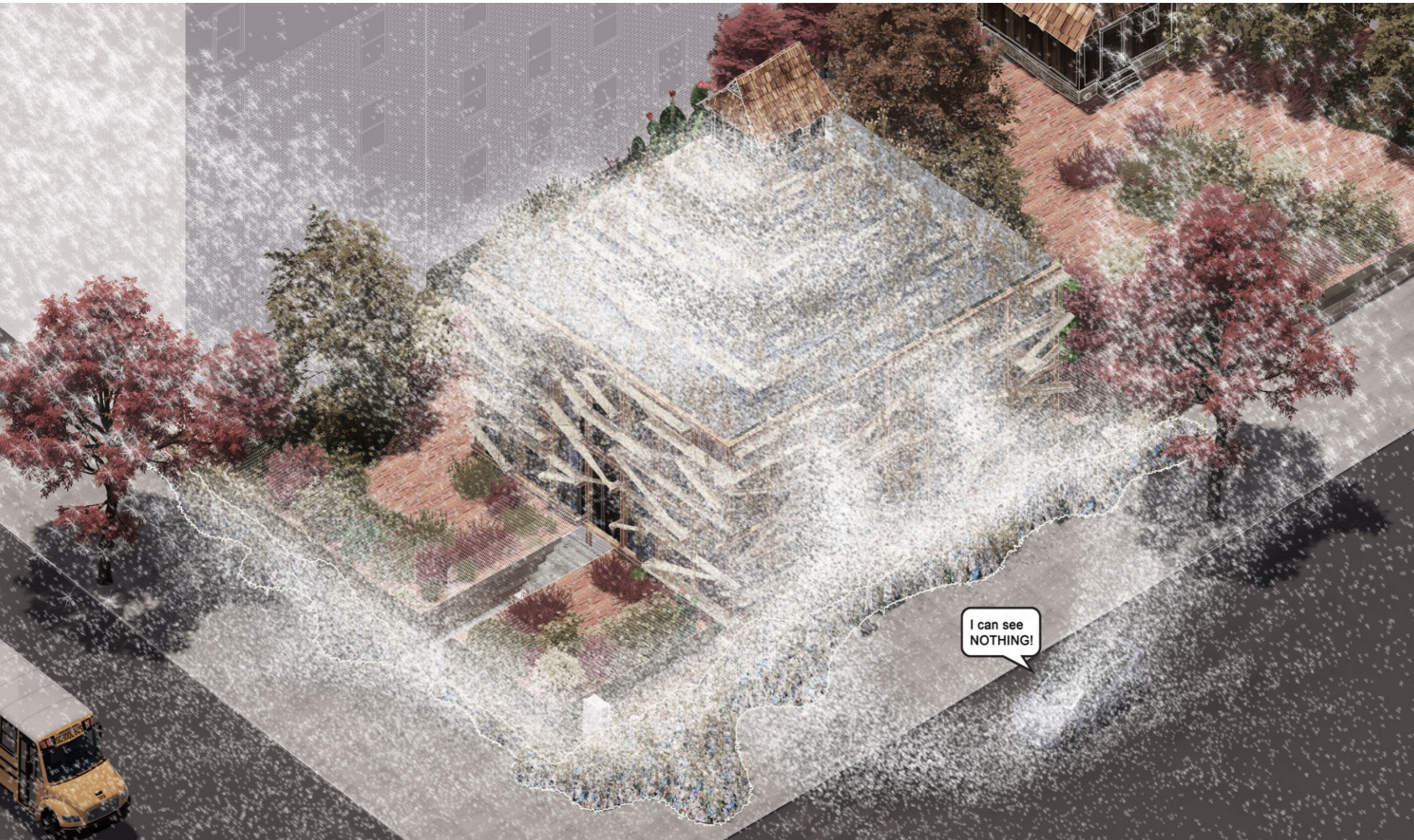


2024 SPRING, 119TH ST & AMSTERDAM AVE



2028 SUMMER, 119TH ST & AMSTERDAM AVE





2030 FALL, 119TH ST & AMSTERDAM AVE



2030 WINTER, 119TH ST & AMSTERDAM AVE



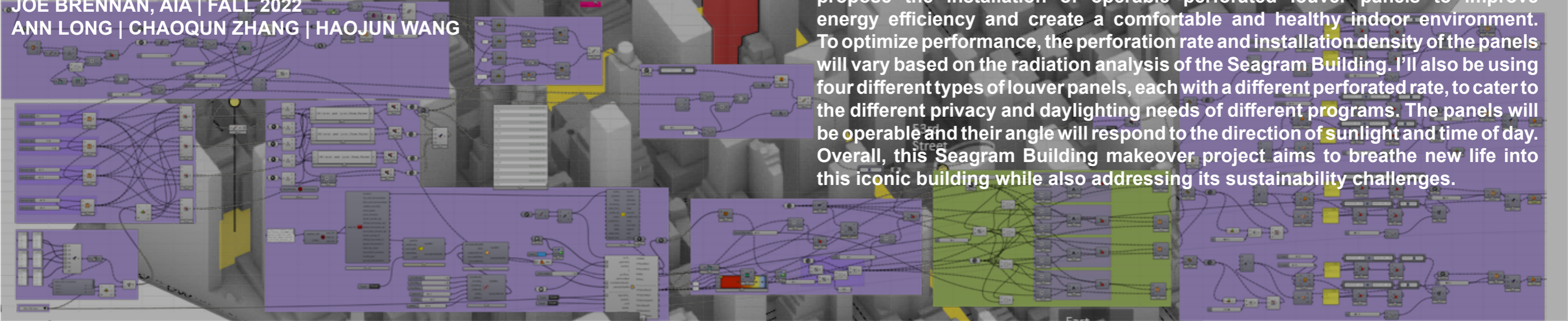


2050 WINTER, STATUE OF LIBERTY

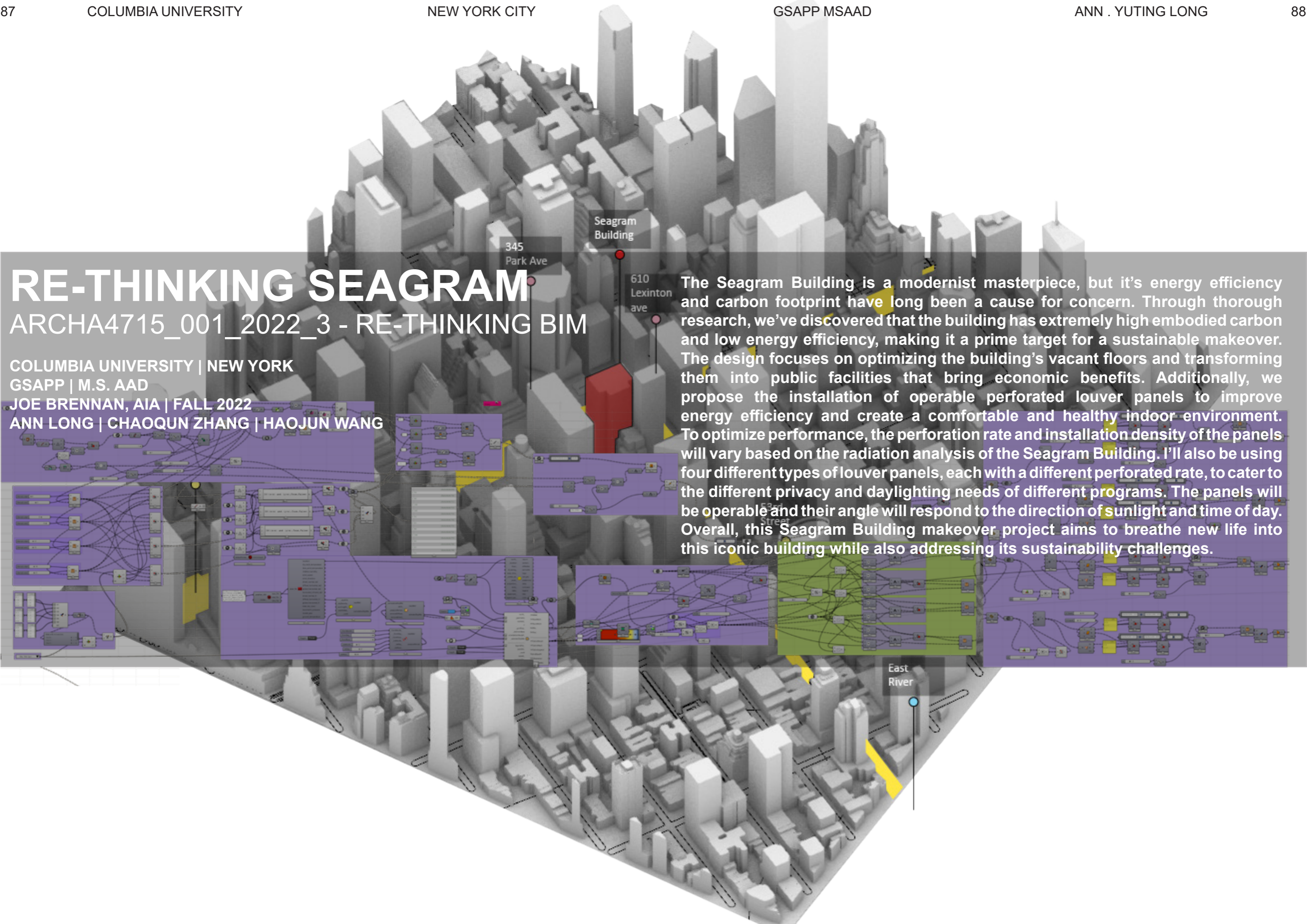
# RE-THINKING SEAGRAM

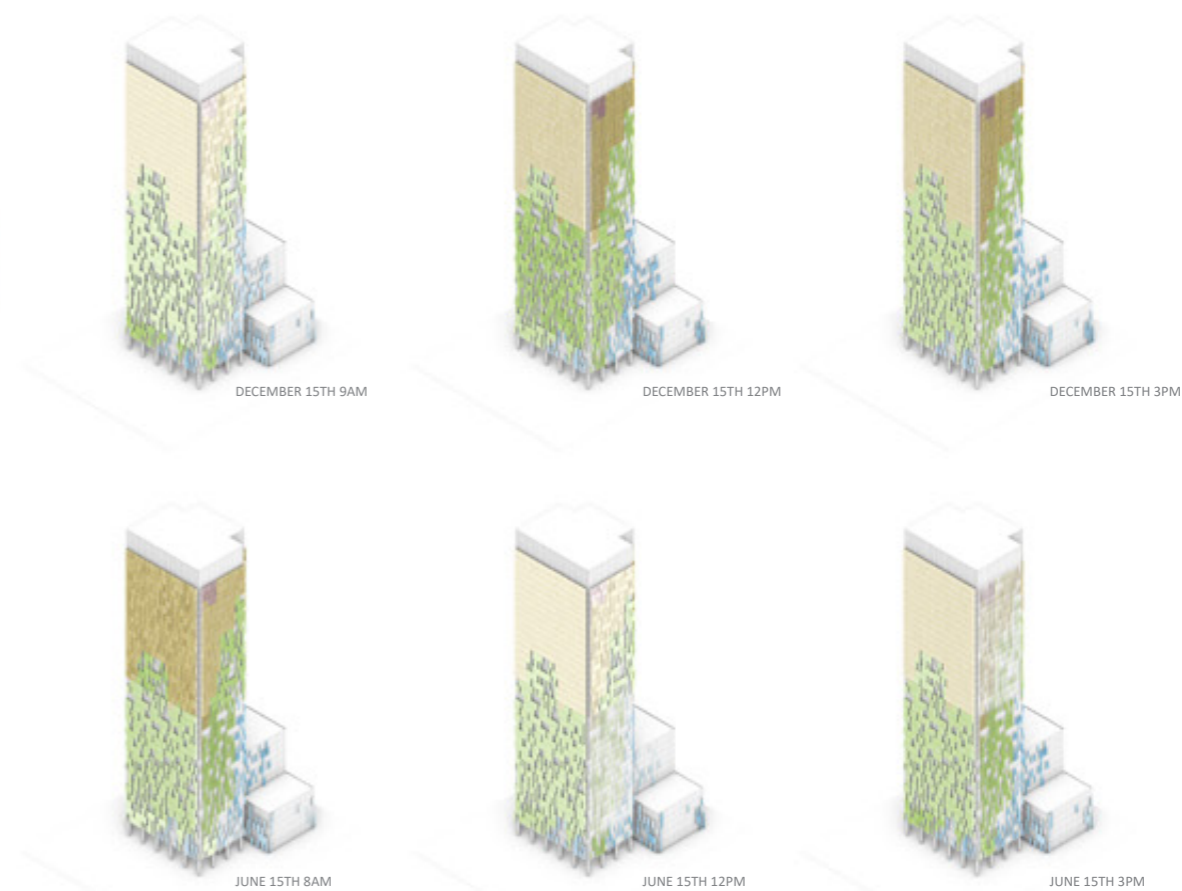
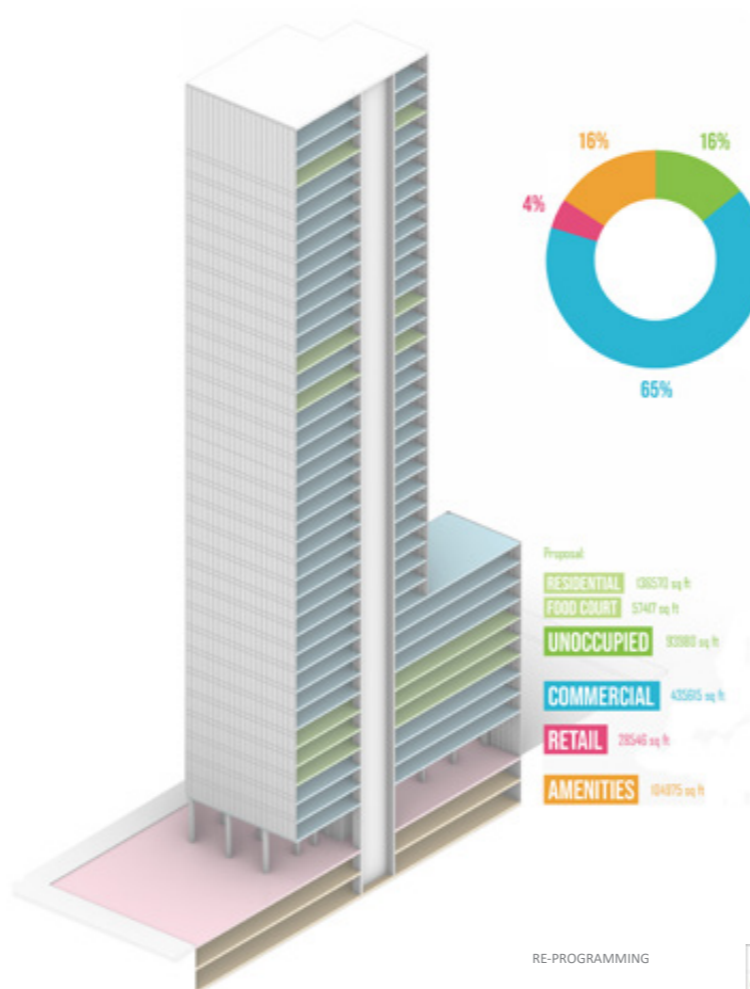
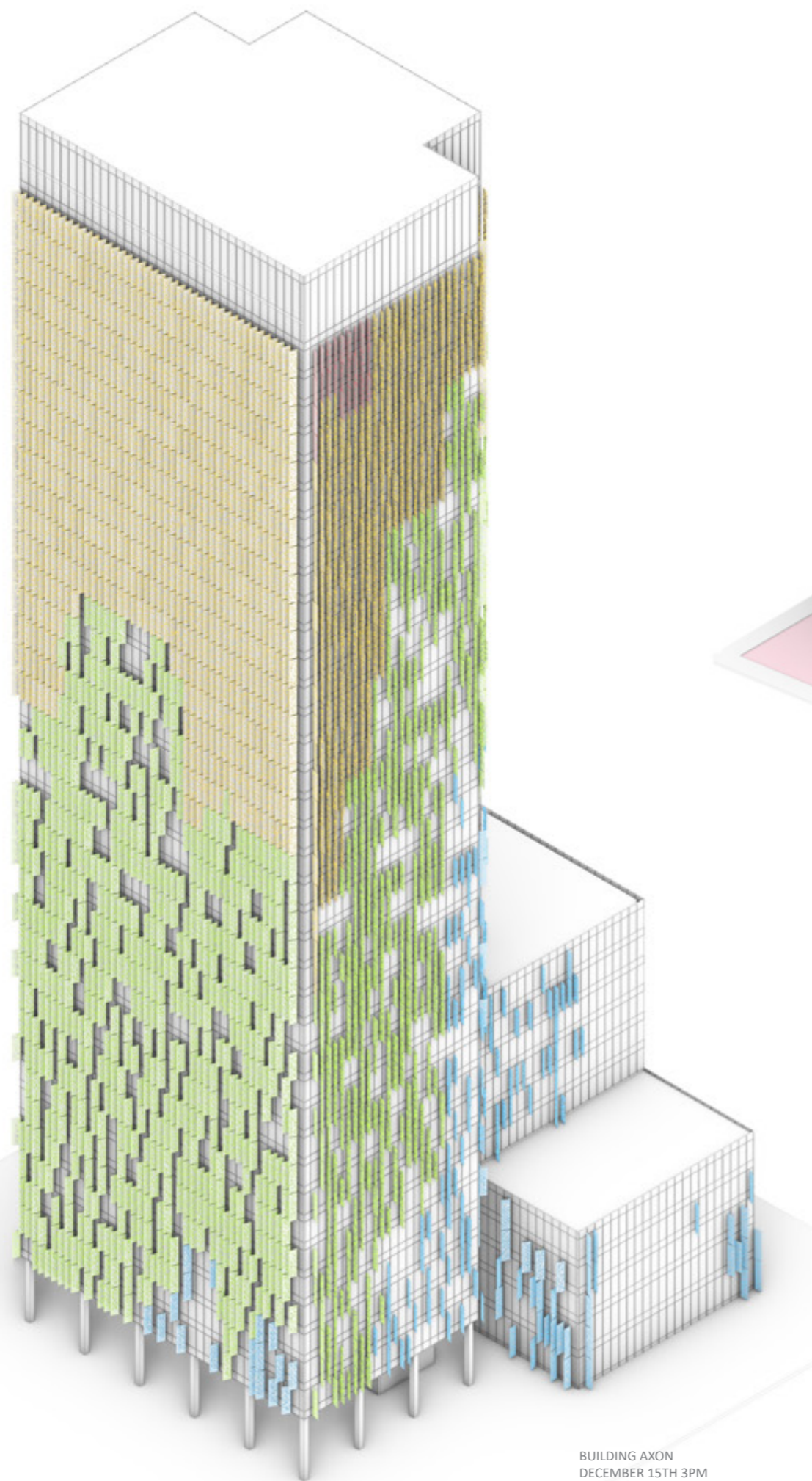
## ARCHA4715\_001\_2022\_3 - RE-THINKING BIM

COLUMBIA UNIVERSITY | NEW YORK  
 GSAPP | M.S. AAD  
 JOE BRENNAN, AIA | FALL 2022  
 ANN LONG | CHAOQUN ZHANG | HAOJUN WANG



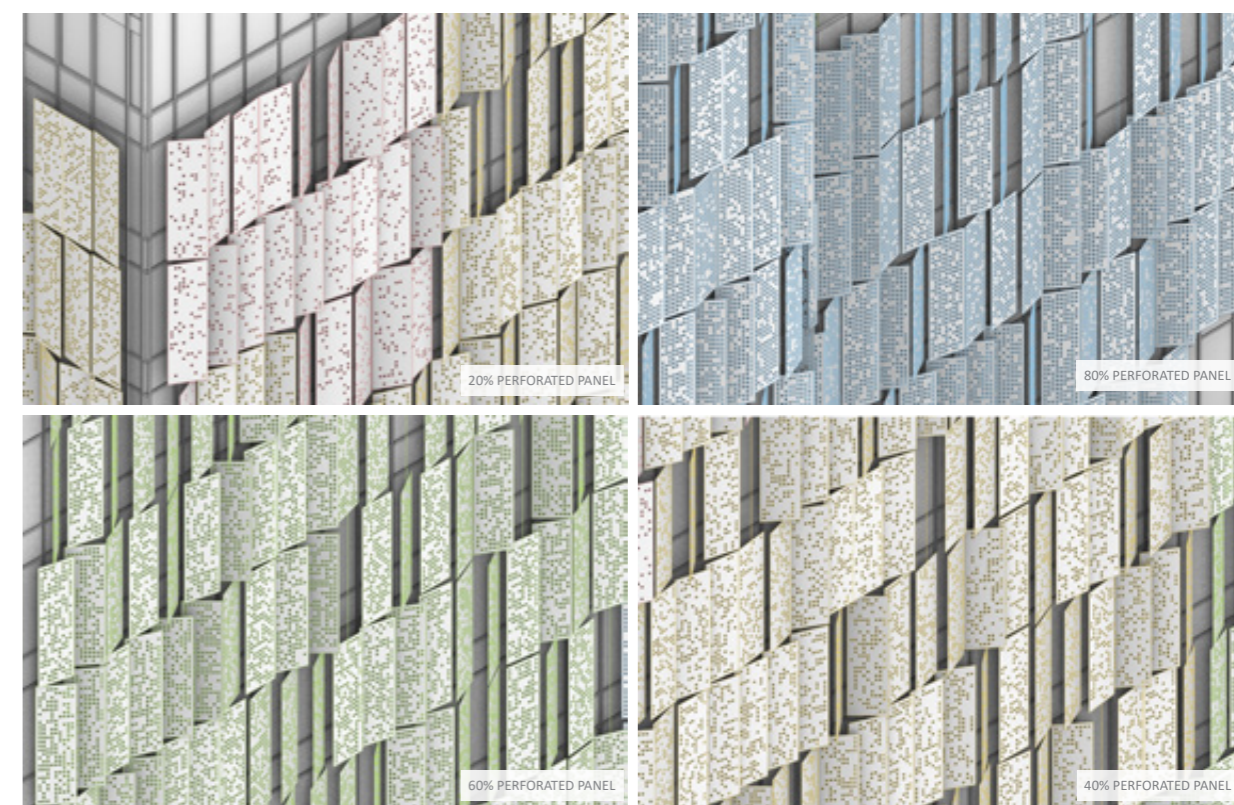
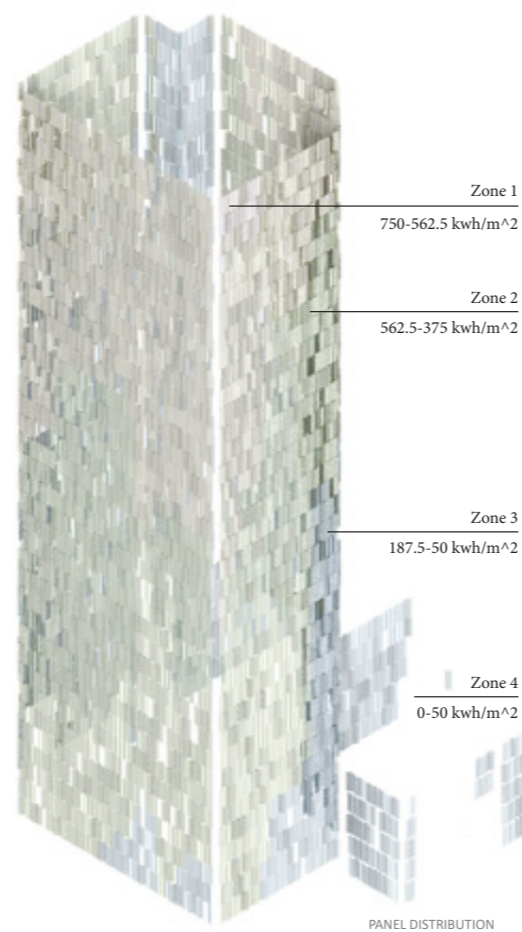
The Seagram Building is a modernist masterpiece, but its energy efficiency and carbon footprint have long been a cause for concern. Through thorough research, we've discovered that the building has extremely high embodied carbon and low energy efficiency, making it a prime target for a sustainable makeover. The design focuses on optimizing the building's vacant floors and transforming them into public facilities that bring economic benefits. Additionally, we propose the installation of operable perforated louver panels to improve energy efficiency and create a comfortable and healthy indoor environment. To optimize performance, the perforation rate and installation density of the panels will vary based on the radiation analysis of the Seagram Building. I'll also be using four different types of louver panels, each with a different perforated rate, to cater to the different privacy and daylighting needs of different programs. The panels will be operable and their angle will respond to the direction of sunlight and time of day. Overall, this Seagram Building makeover project aims to breathe new life into this iconic building while also addressing its sustainability challenges.

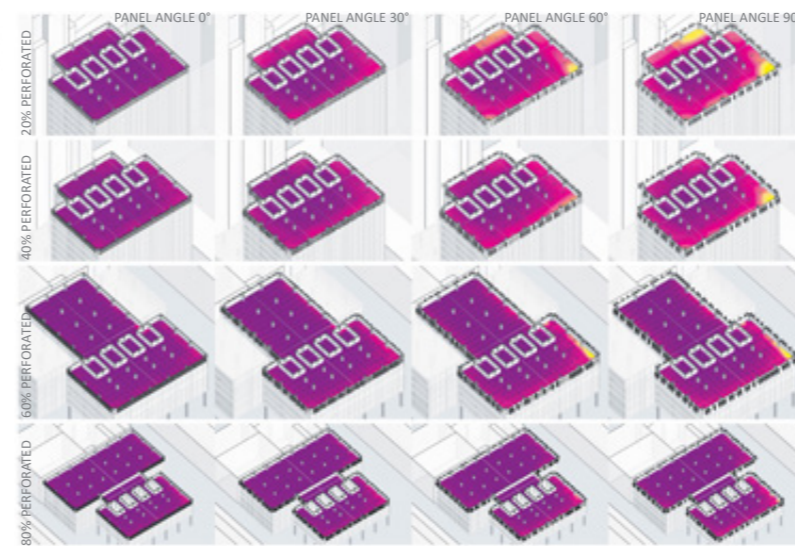
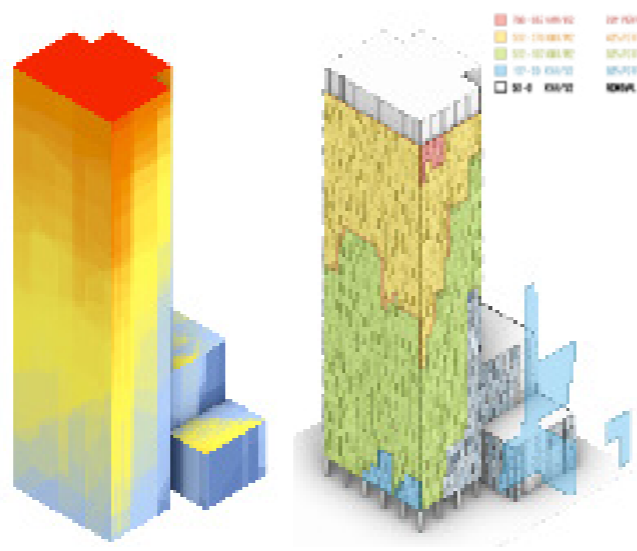
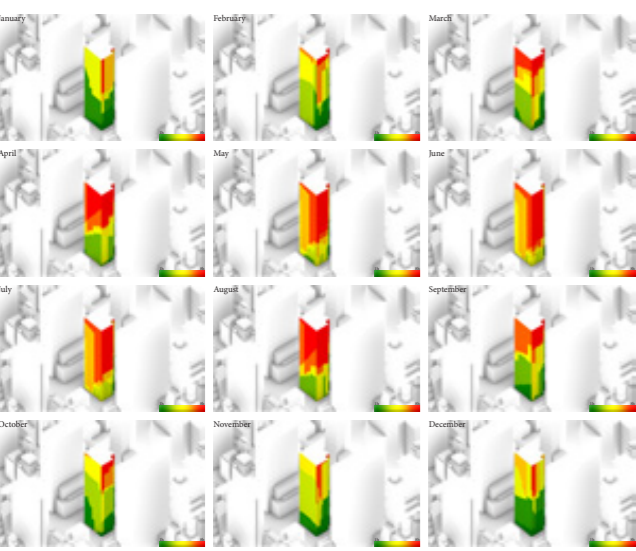
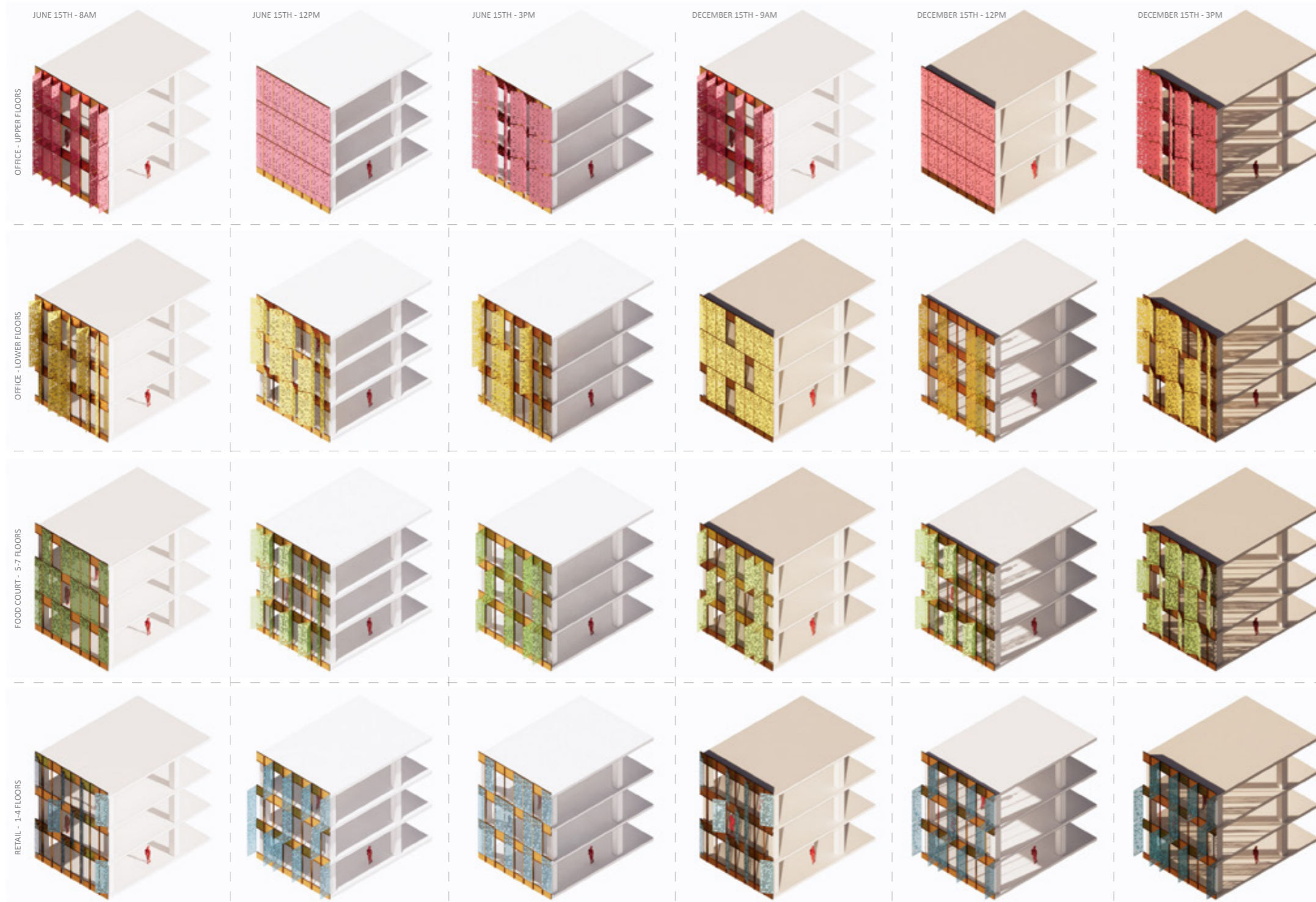




RE-PROGRAMMING

		JUNE 15th 8am	JUNE 15th 12pm	JUNE 15th 3pm	DEC 15th 9am	DEC 15th 12pm	DEC 15th 3pm
Office 24 - 38 floor	20% perforation	90	0	30	0	60	30
Office 6 - 23 floor	40% perforation	60	30	60	0	90	30
Food Court 5-7 floor	60% perforation	0	60	90	90	60	30
Retail 1-4 floor	80% perforation	30	90	0	30	90	90
Azimuth (degree)		82.32	156.19	247.25	140.07	187.61	224.02
Altitude (degree)		28.02	71.29	57.78	14.82	25.61	12.19
Distance (km)		151.956.628	151.959.106	151.960.656	147.242.202	147.240.191	147.238.583
Shadow Length (m)		1.88	0.34	0.63	3.78	2.09	4.63





# ANN LONG'S PHOTOGRAPHY COLLECTION

## ARCHA4987\_001\_2023\_1 - ARCHITECTURAL PHOTOGRAPHY

COLUMBIA UNIVERSITY | NEW YORK  
GSAPP | M.S. AAD  
MICHAEL VAHRENWALD | SPRING 2023  
ANN LONG

Welcome to my personal photography collection, which features an array of captivating images that I have captured during my travels to different places. This collection is a testament to my passion for photography and my desire to explore and document the beauty of different architectural structures. The photos in this collection showcase some of the most iconic landmarks and structures from various locations, including the Whitney Museum, China Town, Brooklyn Bridge, Columbia Morningside Campus, and Kanagawa Institute of Technology in Japan. Each location has its unique charm, and my camera lens has captured the essence of each location in a distinct and captivating way. In the second part of my photography class, I delved into various ways of photographing architectural models. This involved exploring standard depictions where the images closely resemble a full-scale construction and alternative approaches that play with what the architectural model can communicate. As you peruse through this collection, I hope that you will experience the beauty and majesty of each location captured through my lens. Each photograph tells a unique story, and I hope that my work will inspire and evoke a sense of awe and wonder in you.



**WHITNEY MUSEUM OF AMERICAN ART**  
 LEONARD A. LAUDER BUILDING



Important  
 216

NO STANDING  
 EXCEPT  
 IN THIS  
 ZONE

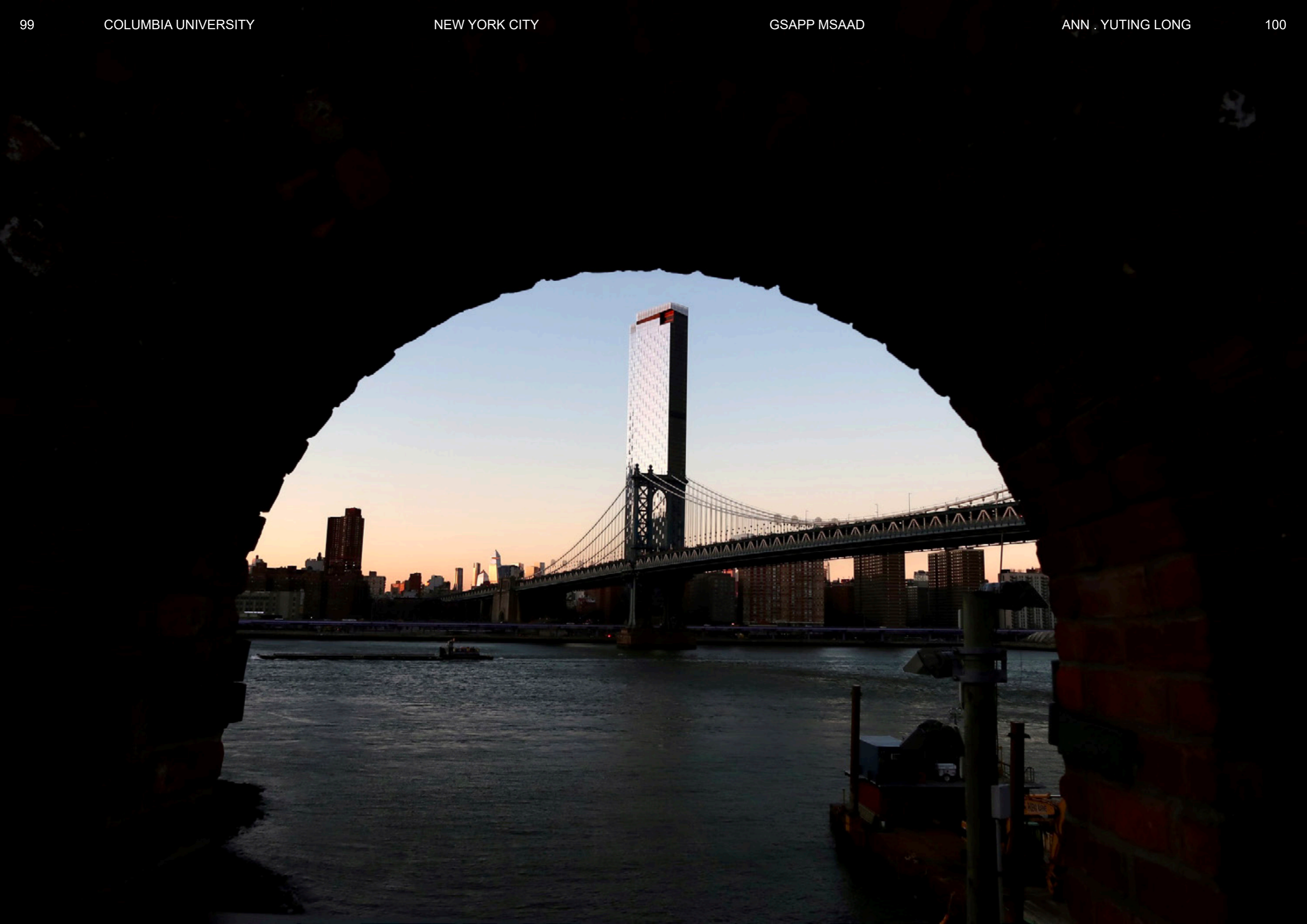
FIND, RENT AND  
 BUY IN NYC  
 @citymap

NYC

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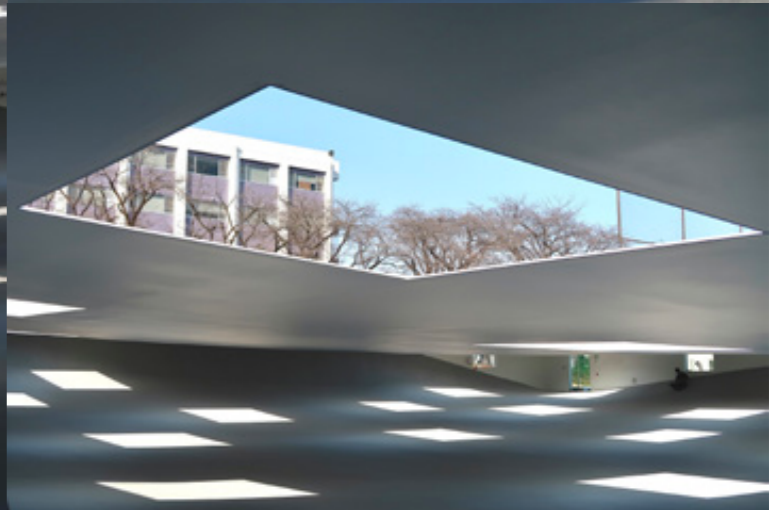
6H92



















# ANN YUTING LONG

COLUMBIA UNIVERSITY, NEW YORK

GSAPP M.S. ADVANCED ARCHITECTURAL DESIGN