

Hallie
Chuba
Design
Portfolio

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Hello, I'm Hallie.

I am more passionate about design than anything else. The design world is constantly evolving, and I am so thankful to have the opportunity to pursue this passion that I have.

cover art drawn by hand in 2019, taken into photoshop for color detail.

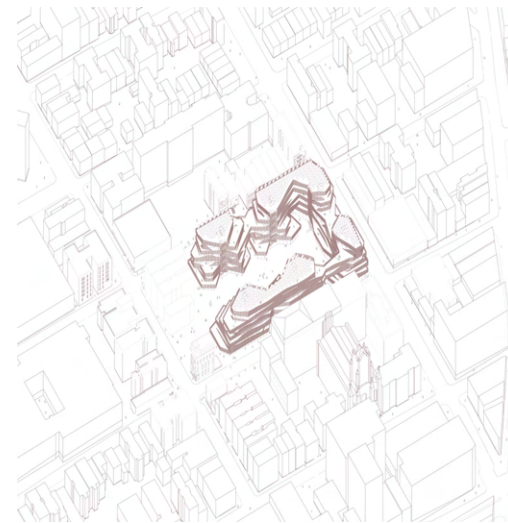
CoRe: Community Reiterated

Designer Hallie Chuba +Sky Zhang
Location New York City
Instructor Benjamin Cadena
School Columbia GSAPP
Year Fall 2021 (Core III)

This design proposes an affordable housing community in The Bronx, New York. It aims to provide a living environment where various levels of interior to exterior, public to private, large to small spaces are layered and paired to create a rich and inviting environment, situated in a setting of rich social, cultural and commercial life, and most importantly providing a sense of home to the residents.



Pictured: A rendering of the interior of the housing project.



Structural diagram

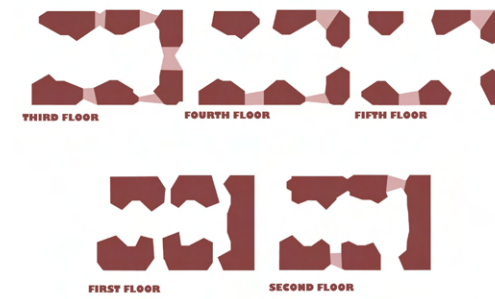
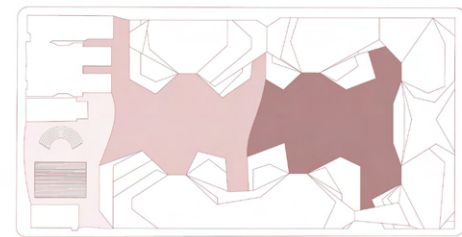


Diagram of each level



- RESTAURANT ZONE
- SHOPS
- INSTALLATION ZONE

Ground plane diagram



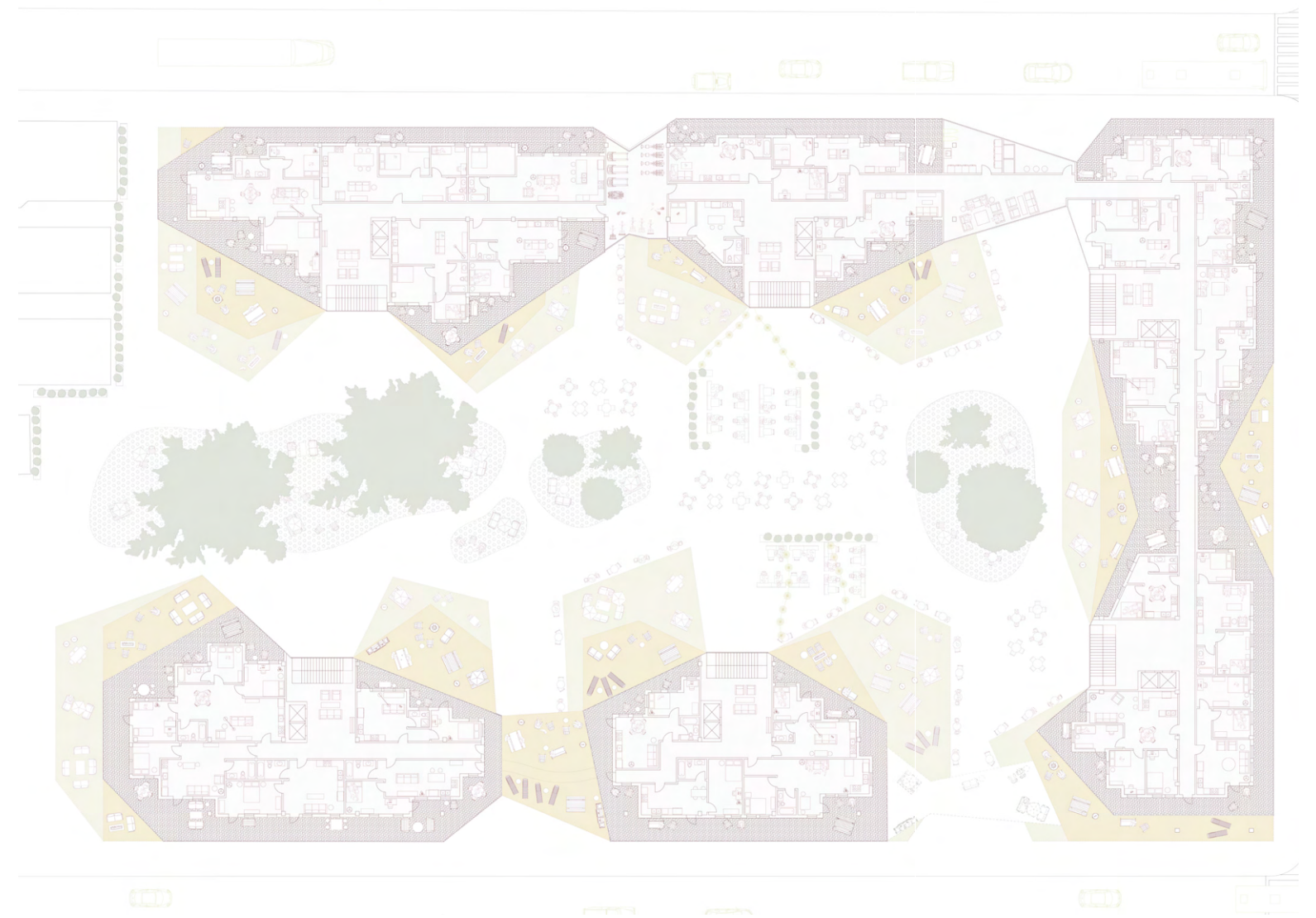
Types of spaces



Above is an plan of the ground floor, again demonstrating the commerical space on the ground plane. The center of the housing design includes shops and restaurants, along with lots of outdoor seating. There are breaks in the buildings to allow for access to the interior that challenges the typical linearity of a New York City block.



Section cut showing the division of spaces of the residential space. Restaurant/ public seating featured in the center.



Above is a plan cut at the residential level of the complex.
To the right is a zoomed in view of plan.



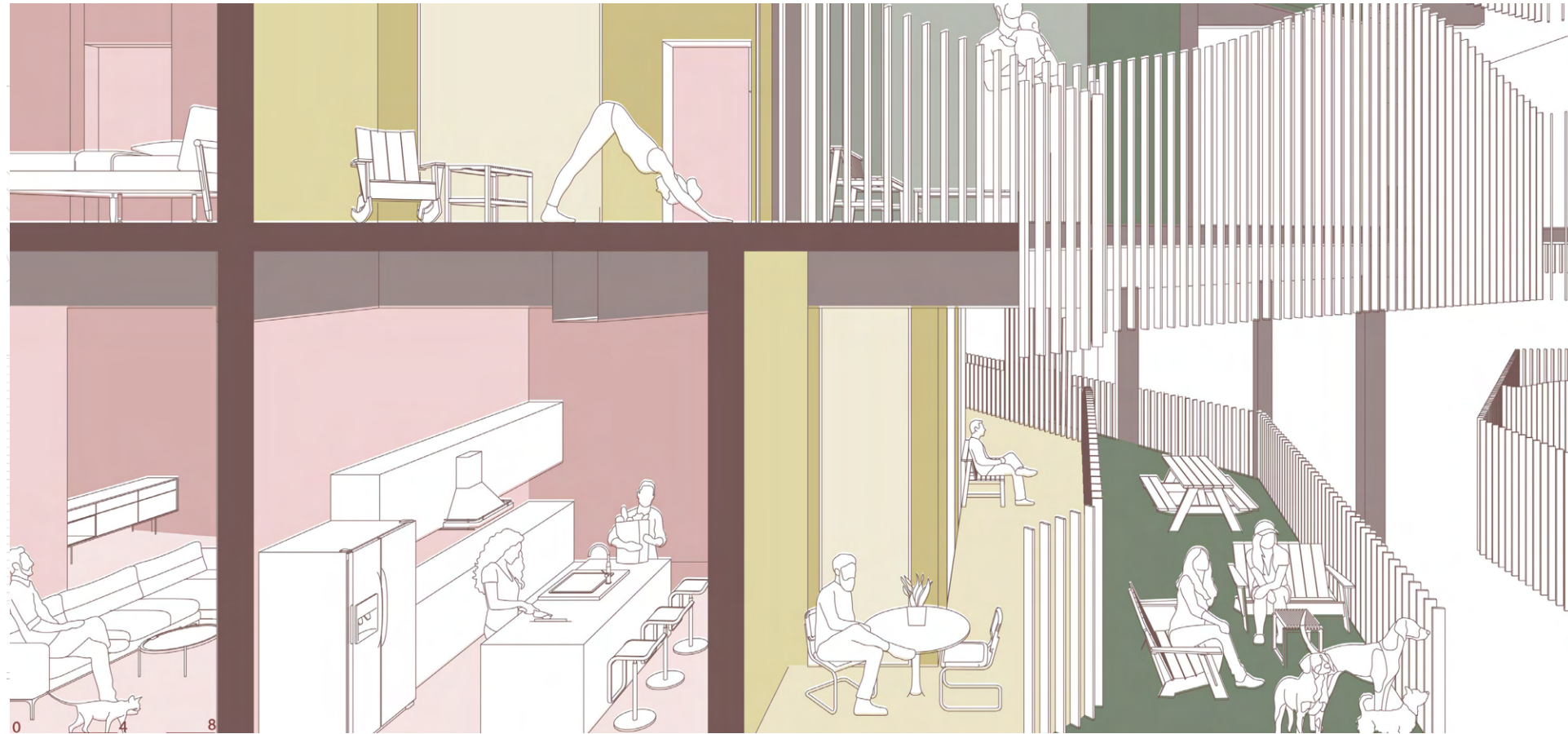
Above is a section cut north-south, showing the ever-changing form of the buildings, as well as the dining space in the center green space. On the far right is a fragmented section, along with a rendering of the indoor/outdoor terracespace that every apartment has.



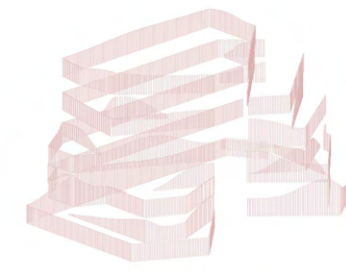
Pictured: The circulation around units.



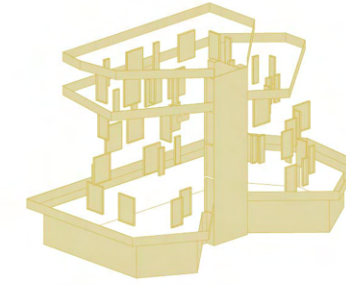
Pictured: The retail and restaurant space on the ground floor.



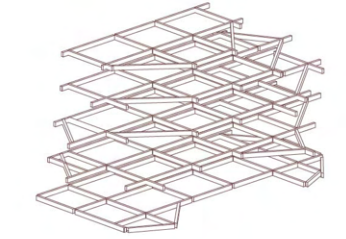
WOODEN LOUVERS



GLASS



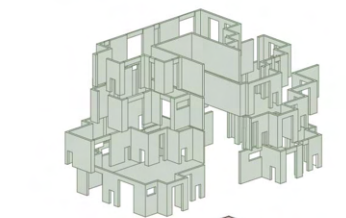
TIMBER BEAMS



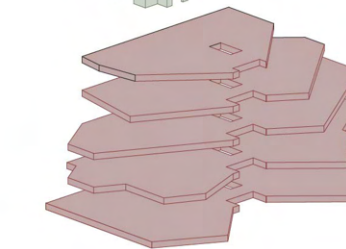
TIMBER COLUMNS



EXTERIOR WALLS

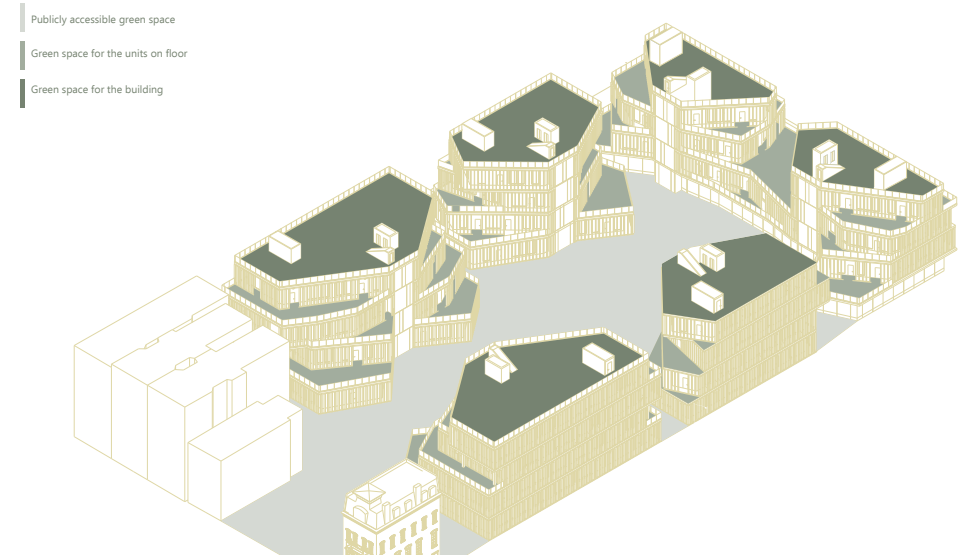
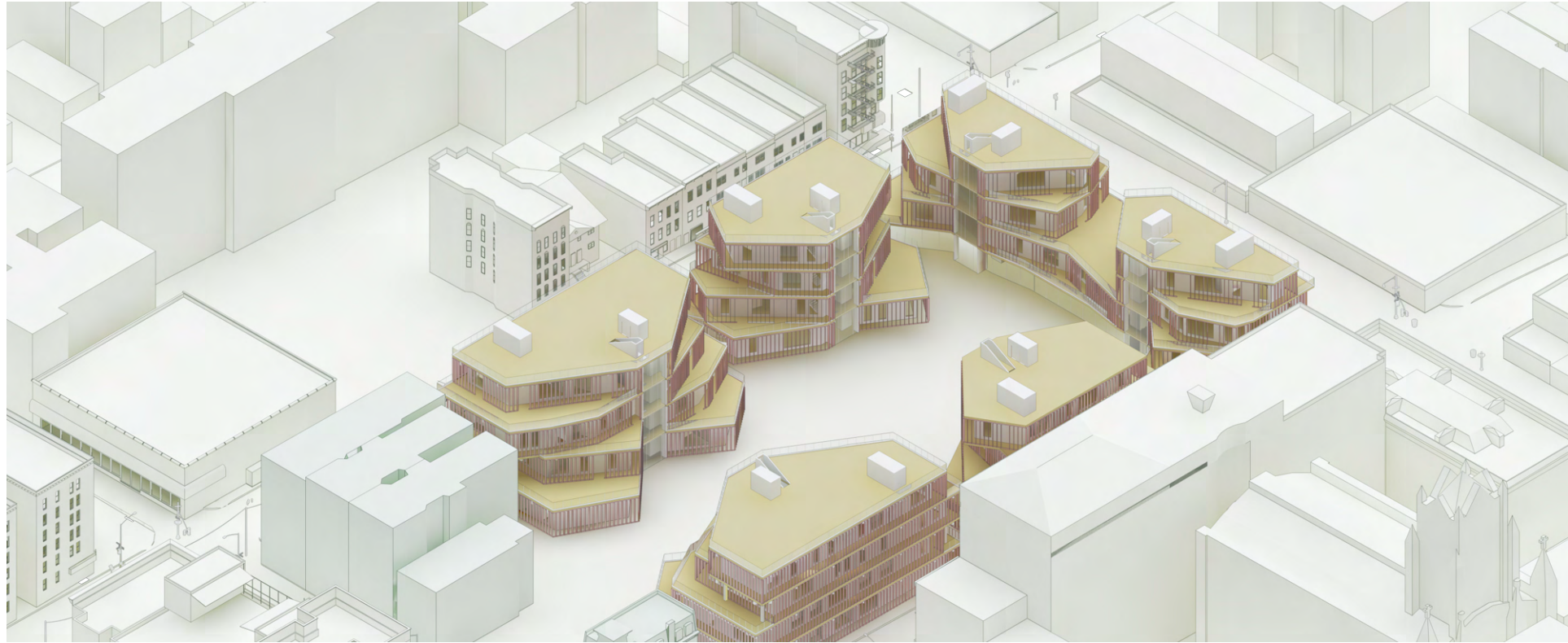


CLT FLOOR PANELS

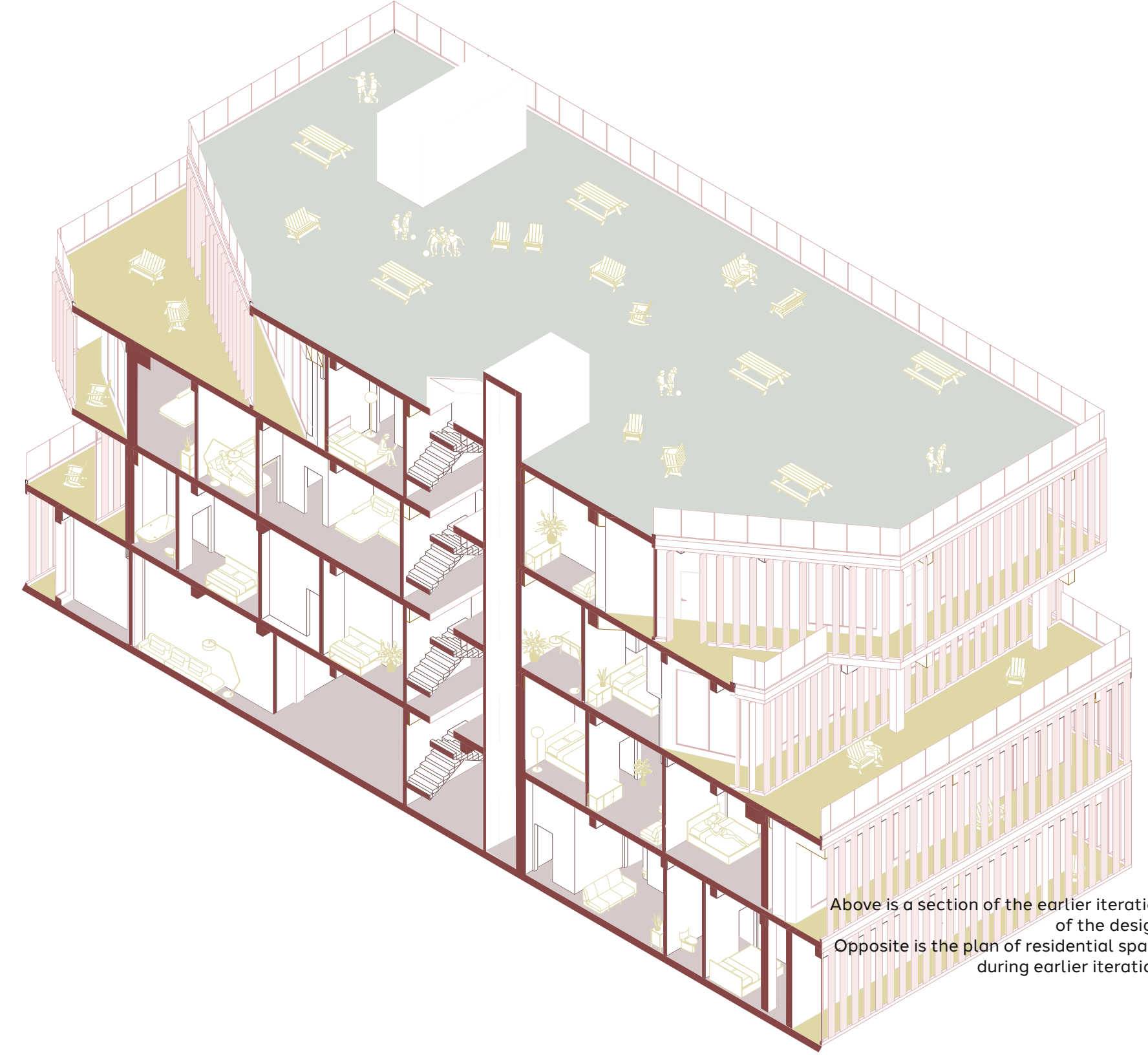


Above is a fragmented section, emphasizing the indoor/ outdoor terracespace that every apartment has.

Opposite page shows an exploded structural diagram, and photo of physical model.



Above is an axon showing the project development of an earlier iteration.
Opposite page shows a render and diagram of earlier iteration.



Above is a section of the earlier iteration of the design, Opposite is the plan of residential space during earlier iteration.



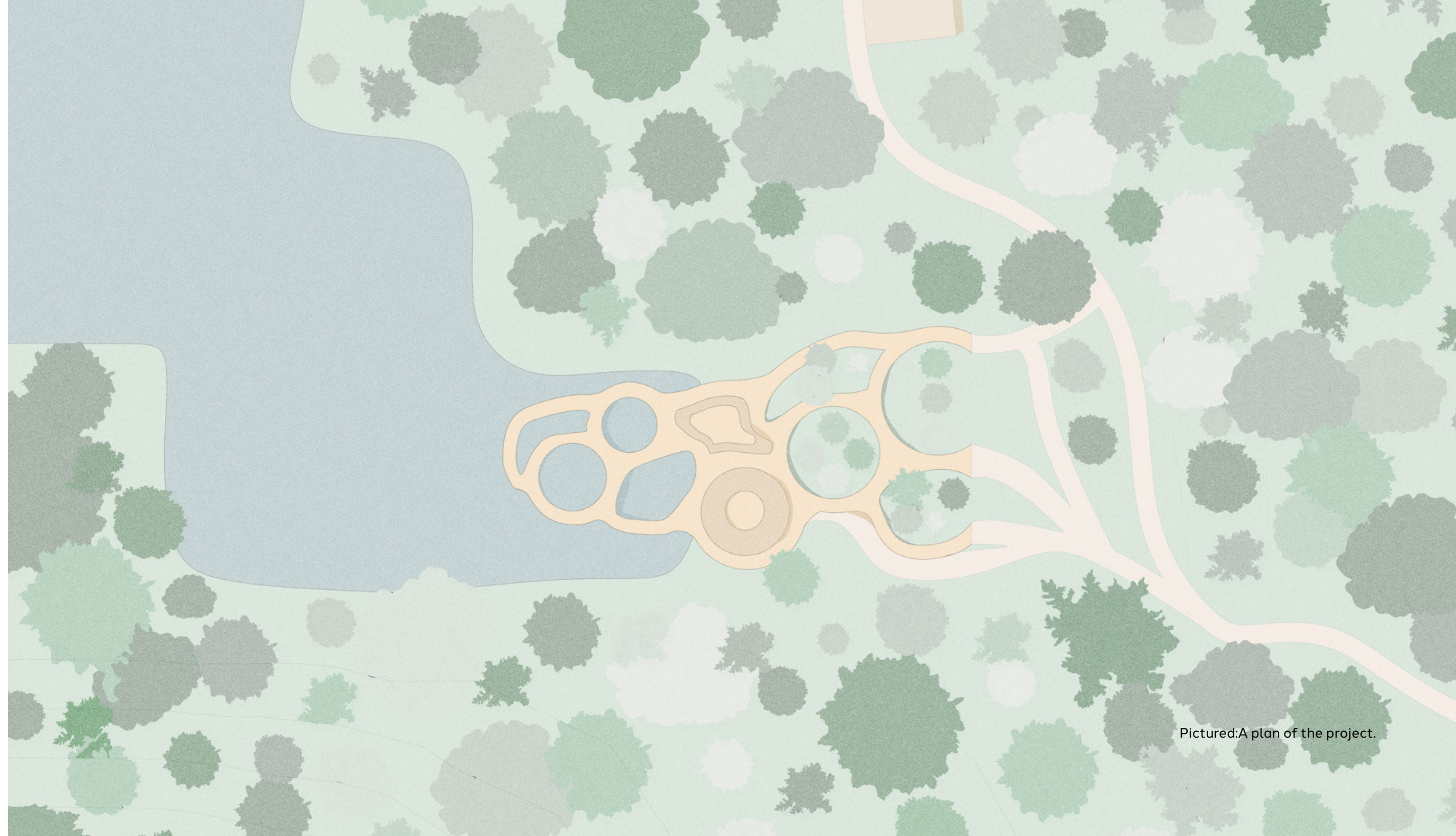
Photos of physical model made of one of the residential buildings during earlier iteration.

Hudson Nature Museum

Designer
Location
Instructor
School
Year

Hallie Chuba
Hudson Valley
Robert Marino
Columbia GSAPP
Spring 2022 (Avd IV)

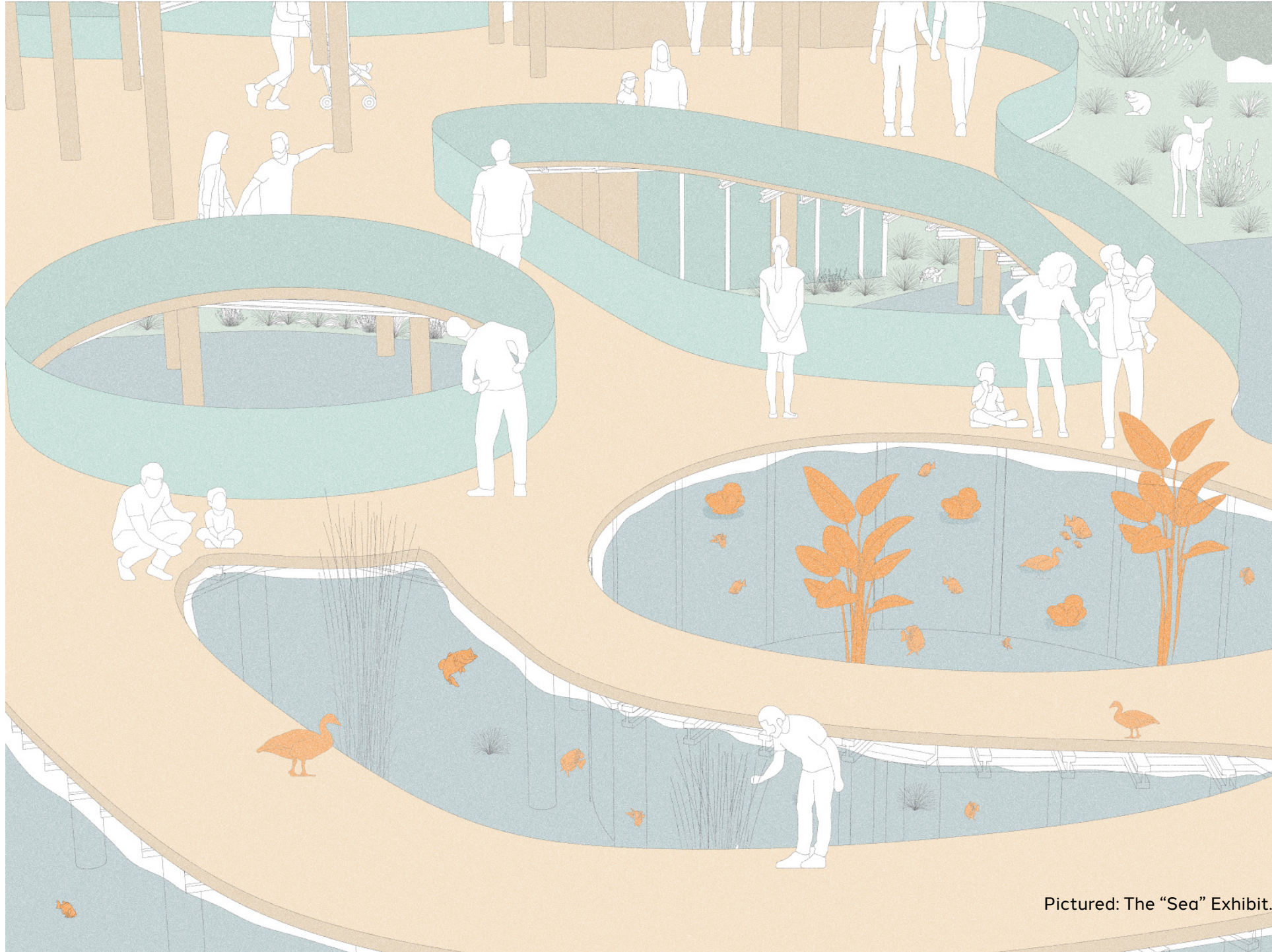
This design proposes an outdoor nature museum in the Hudson Valley, located just along the South Bay. The museum stemmed from the concept of exploring the duality of man in nature; that we are part of nature, or that we should simply observe it. This becomes tangible through a design that offers experiences for walking through nature experiences, or simply observing it from above. This is then combined with both curated and natural exhibitions. This is all contained in a raised walkway that extends from the land to over the water. This allows for the user to experience all of the three exhibit zones: land, air and sea.



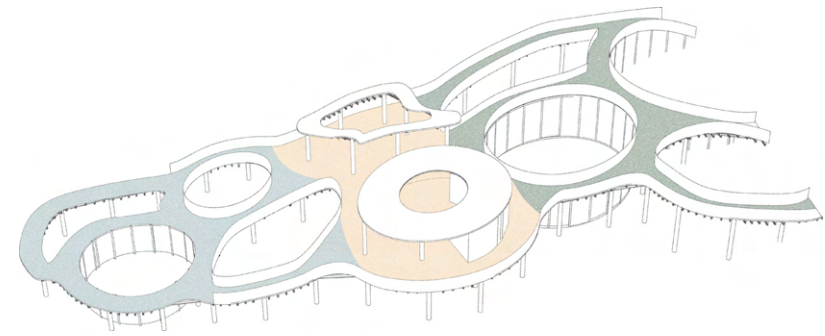
Pictured: A plan of the project.



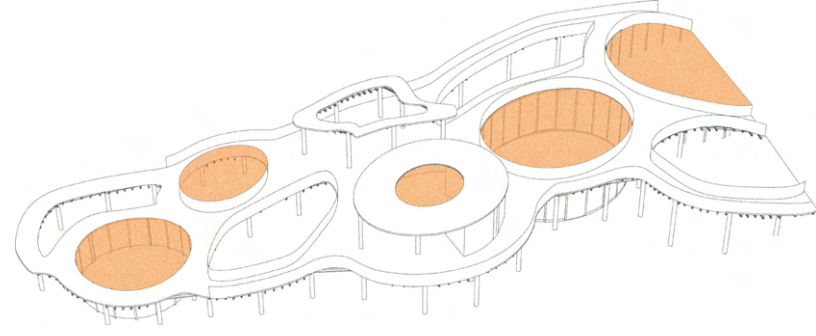
Pictured: The "Land" Exhibit.



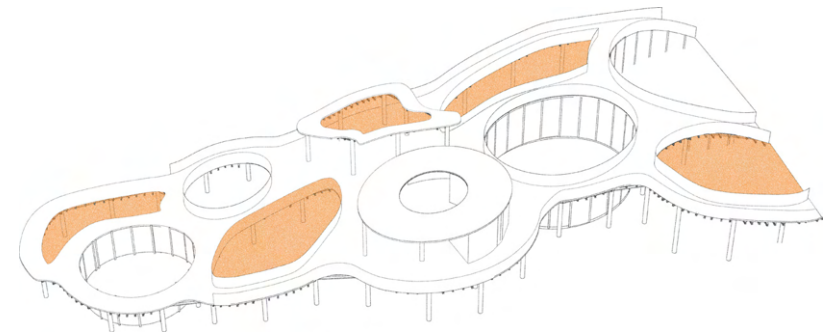
Pictured: The "Sea" Exhibit.



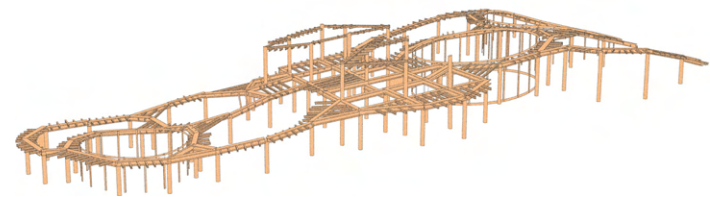
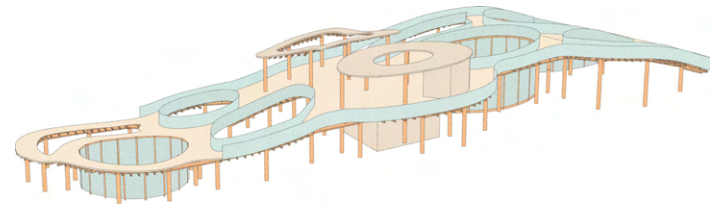
Land, air and sea zones.



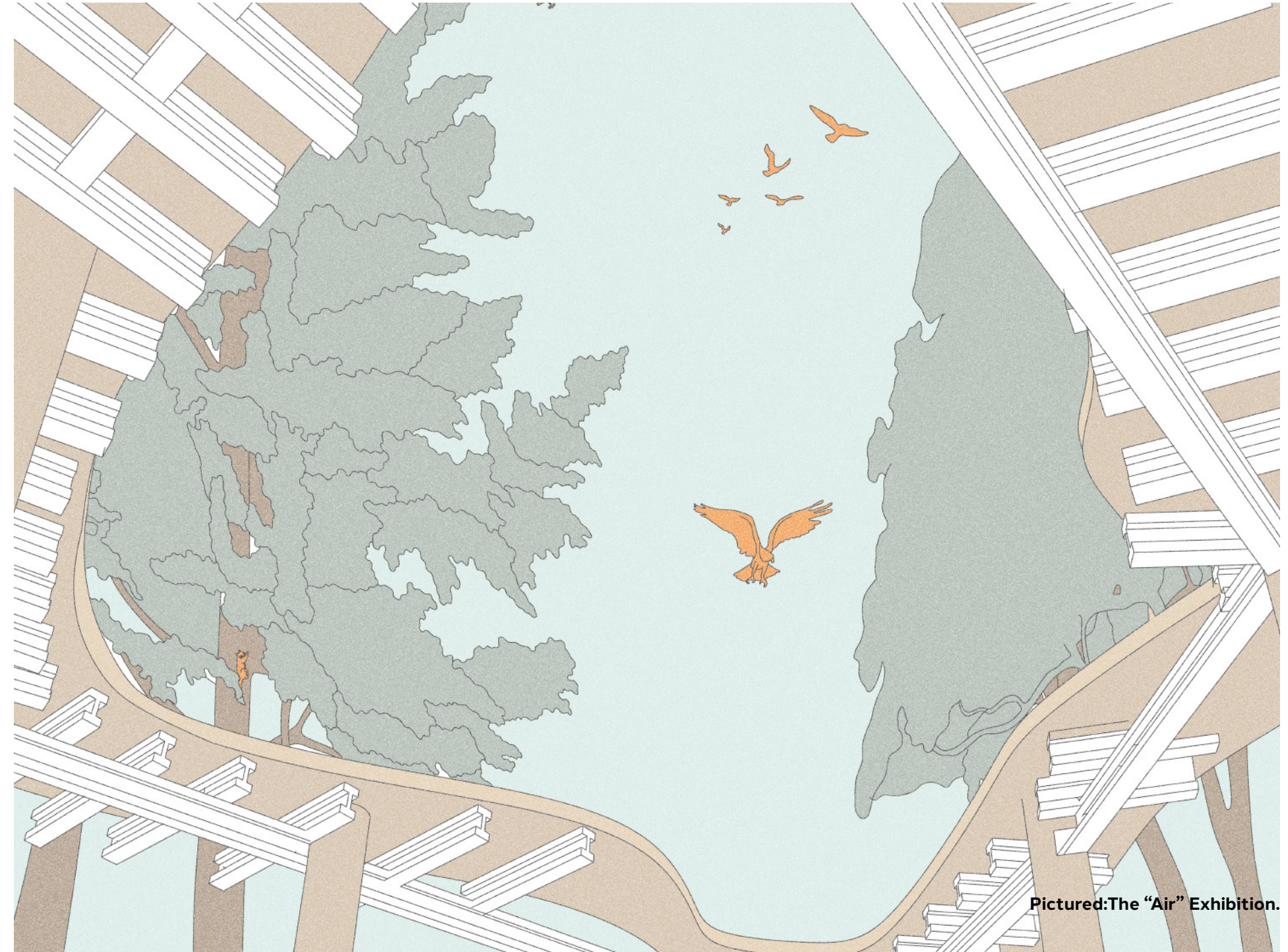
Curated zones.



Natural zones.



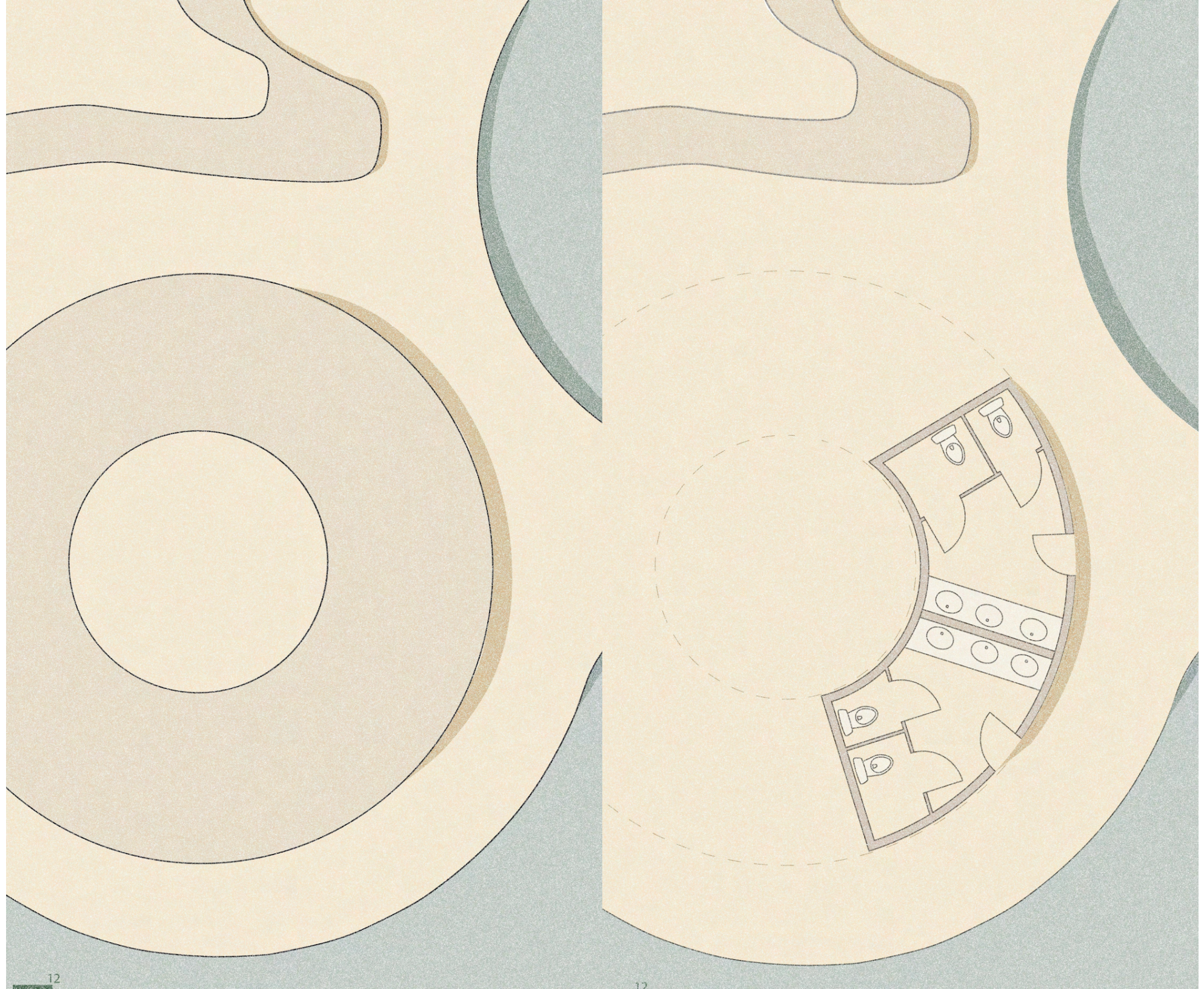
Structural diagram.



Pictured: The "Air" Exhibition.



Above is a section cut east-west, showing the variation in heights of the walkway, as it flows from land to sea. Underneath one of the air installations there are restrooms, and below the walkway itself is an information/ticketing center.



Far right: Plan of office space below the walkway.

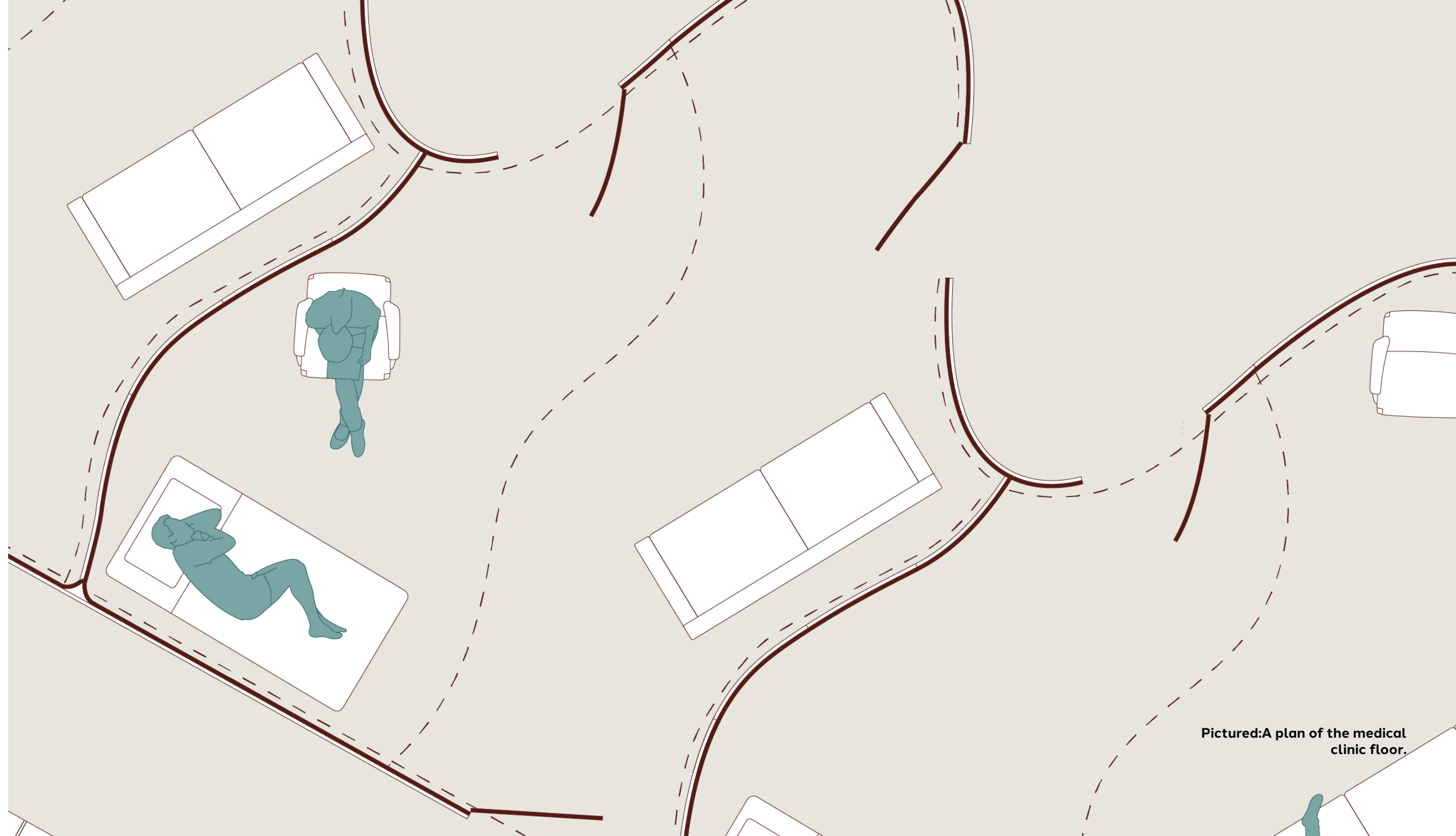
Right: Aerial and plan view of the restrooms beneath the air installation.

Post Office+ Clinic

Designer
Location
Instructor
School
Year

Hallie Chuba
New York City
Laurie Hawkinson
Columbia GSAPP
Fall 2023 (Avd V)

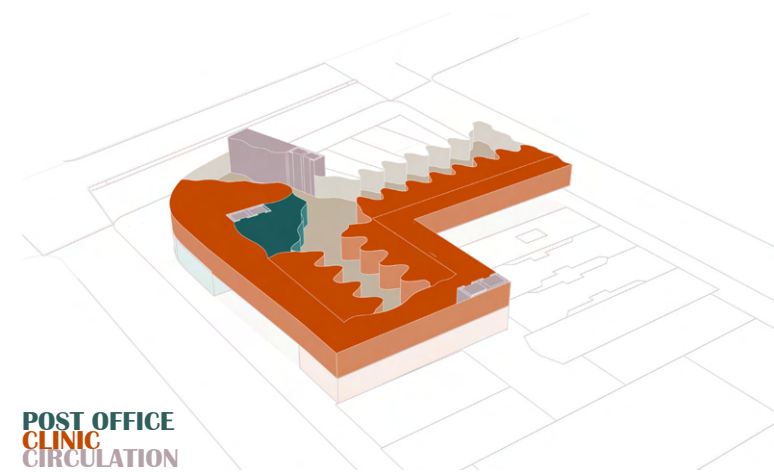
This semester aimed to reimagine the U.S. Postal Service programatically. This design combined the post office with a medical clinic. The post office, through instances like sending citizens covid test, sending birth control and emergency contraception, has become entwined in the business of modern medicine. This proposal looks to emphasize that connection by implementing a quick clinic on the ground floor in addition to the existing post office. The second floor will be clinic space for more extensive visits. The clinic will also serve as a hub for mobile medical vehicles that can serve the community without requiring patients to come to the site.



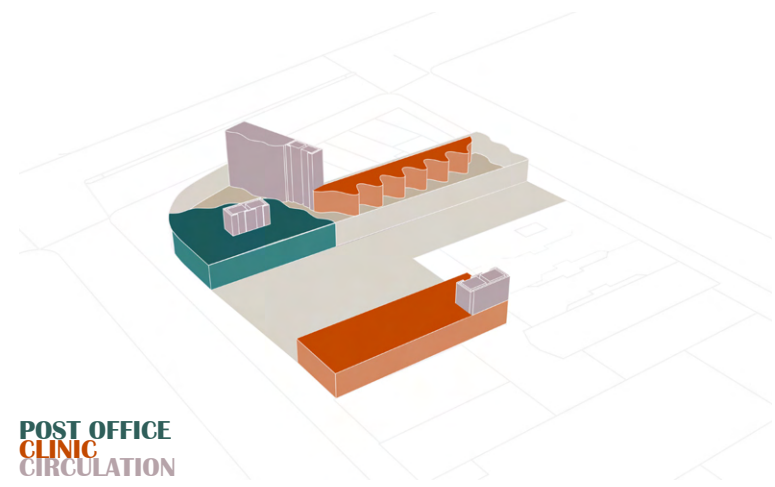
MOST PRIVATE



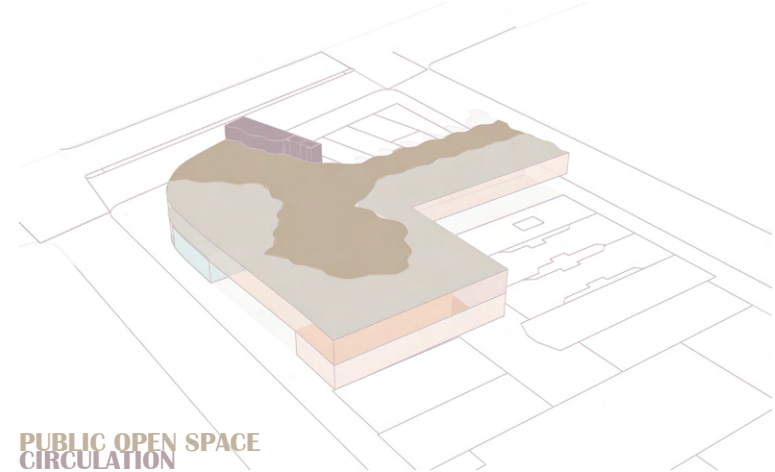
MOST PUBLIC



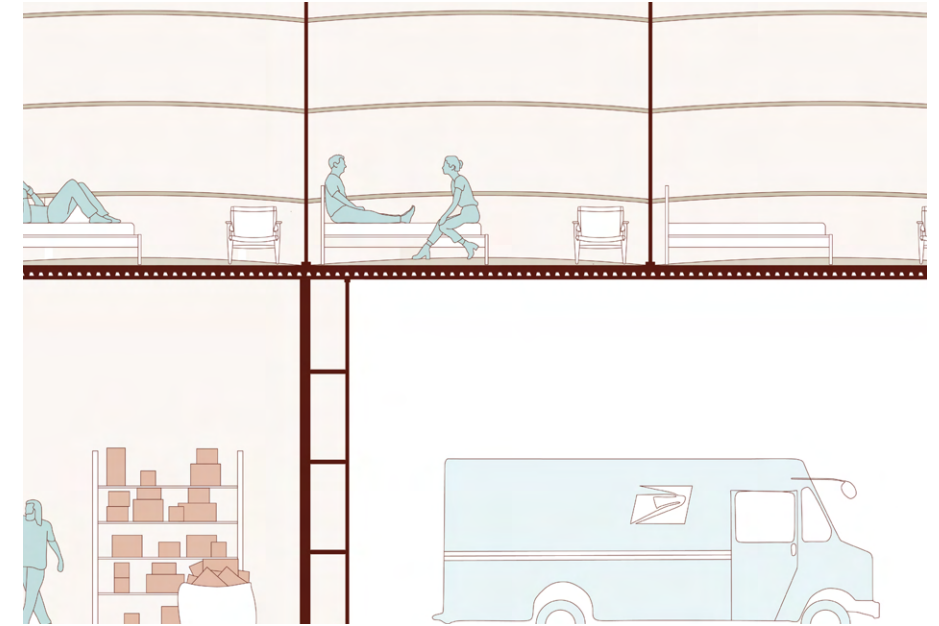
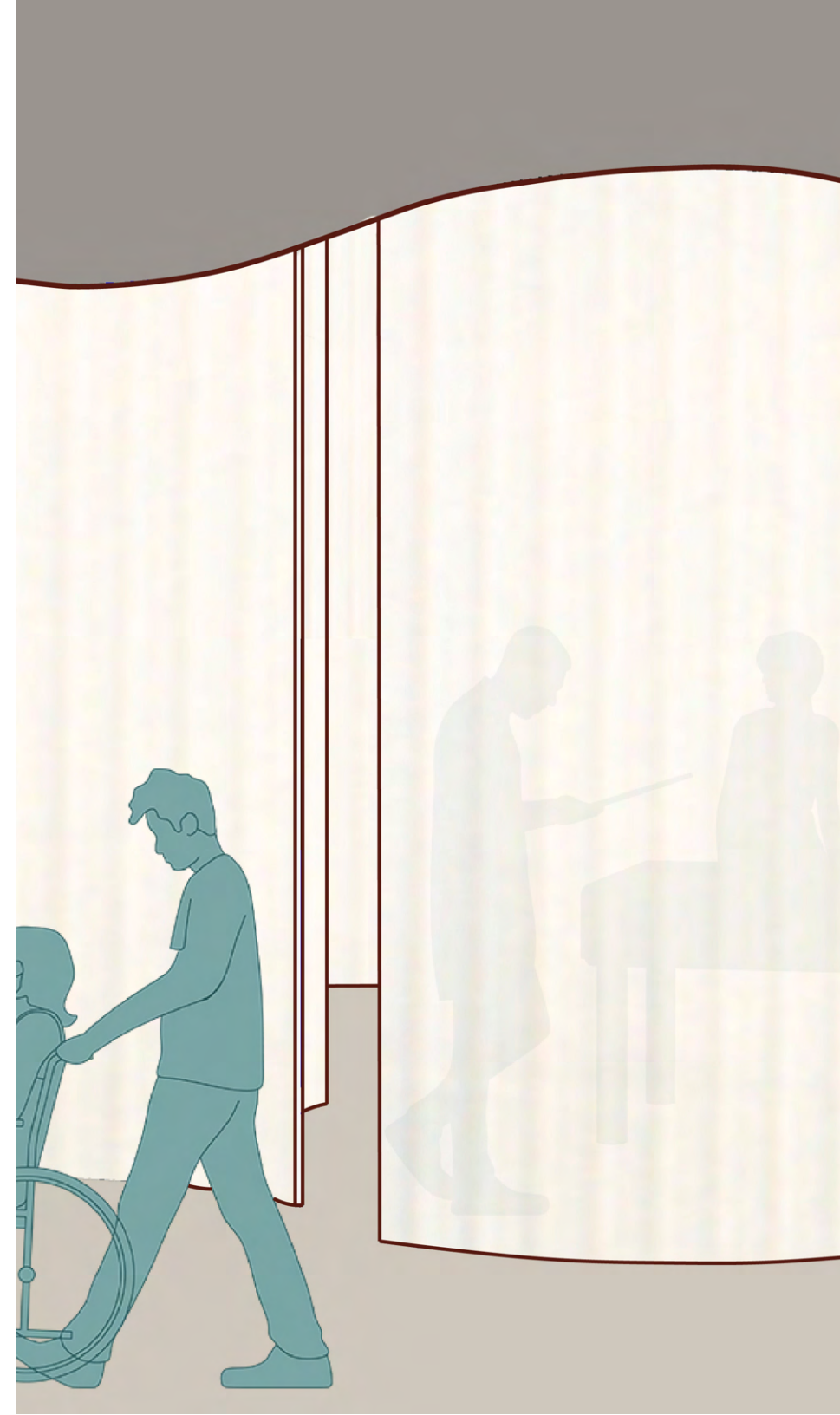
**POST OFFICE
CLINIC
CIRCULATION**



**POST OFFICE
CLINIC
CIRCULATION**



**PUBLIC OPEN SPACE
CIRCULATION**



Left: Render of polycarbonate curves between clinic rooms.
Above: Section showing post office space below clinics.



Plan of ground floor showing vehicle circulation, post office space and quick clinic access.



Plan of clinic floor.

The XR School

Designer Hallie Chuba
Location New York City
Instructor Gordon Kipping
School Columbia GSAPP
Year Spring 2021 (Core II)

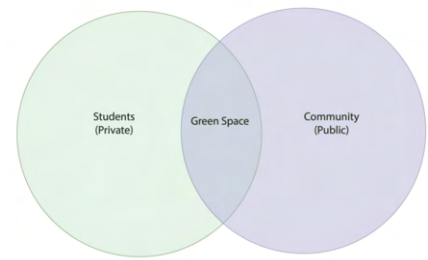
After analyzing the community surrounding the East Village location of the PS 64 school, it became clear that there was a need for community green space that was accessible all year round. The perfect opportunity for this arose for creating space that brought the community and the students together through greenspace. While the ramped open space is available to everyone, there are greenhouses underneath that are available only to the students.



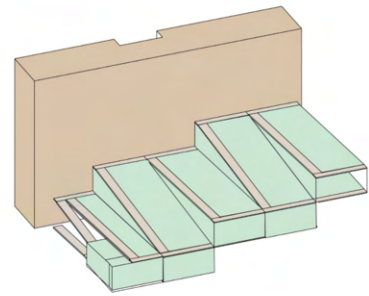
Pictured: A rendering of the greenspace and below greenhouses.

The concept of the design is to use greenspace to bring the community (public) and the students (private) together. However, there are parts of the site that remain accessible to only the students. The indoor program has been constrained to the north-western side of the site in order to give the greenspace maximum sunlight.

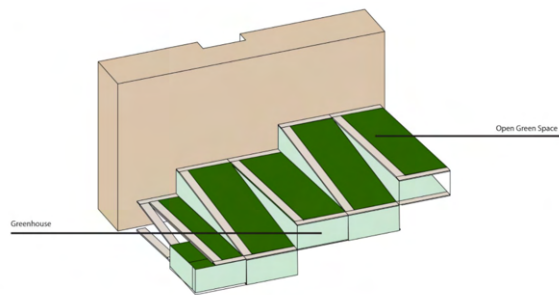
This section is cut from east-west, and shows the distinction between the indoor and outdoor programs. Classrooms and offices are located indoor, while the greenhouses and open greenspace are outside. Beneath the ramps are facilities for collecting and filtering water.



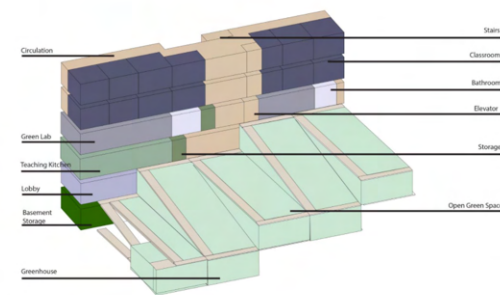
Program diagram



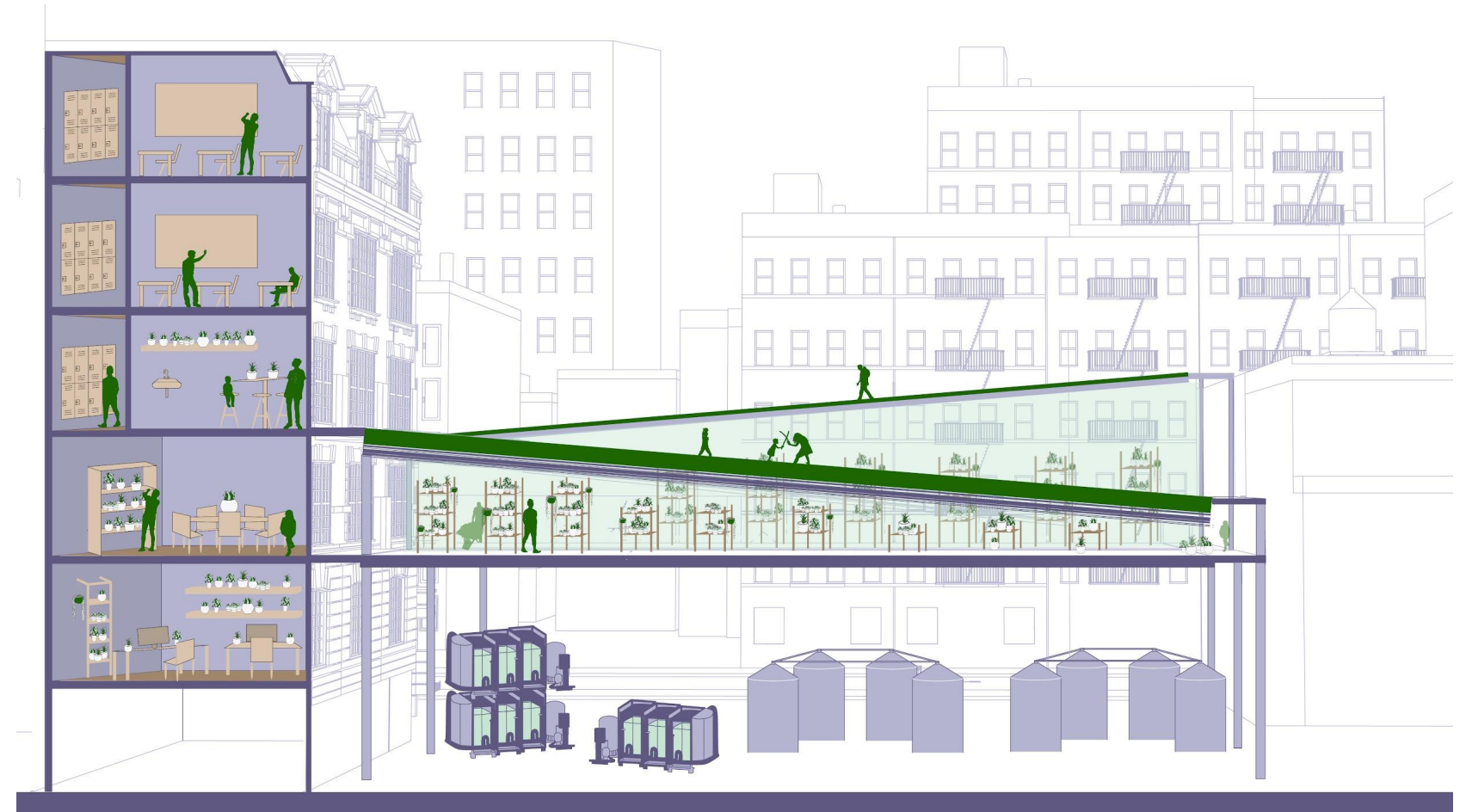
Form diagram

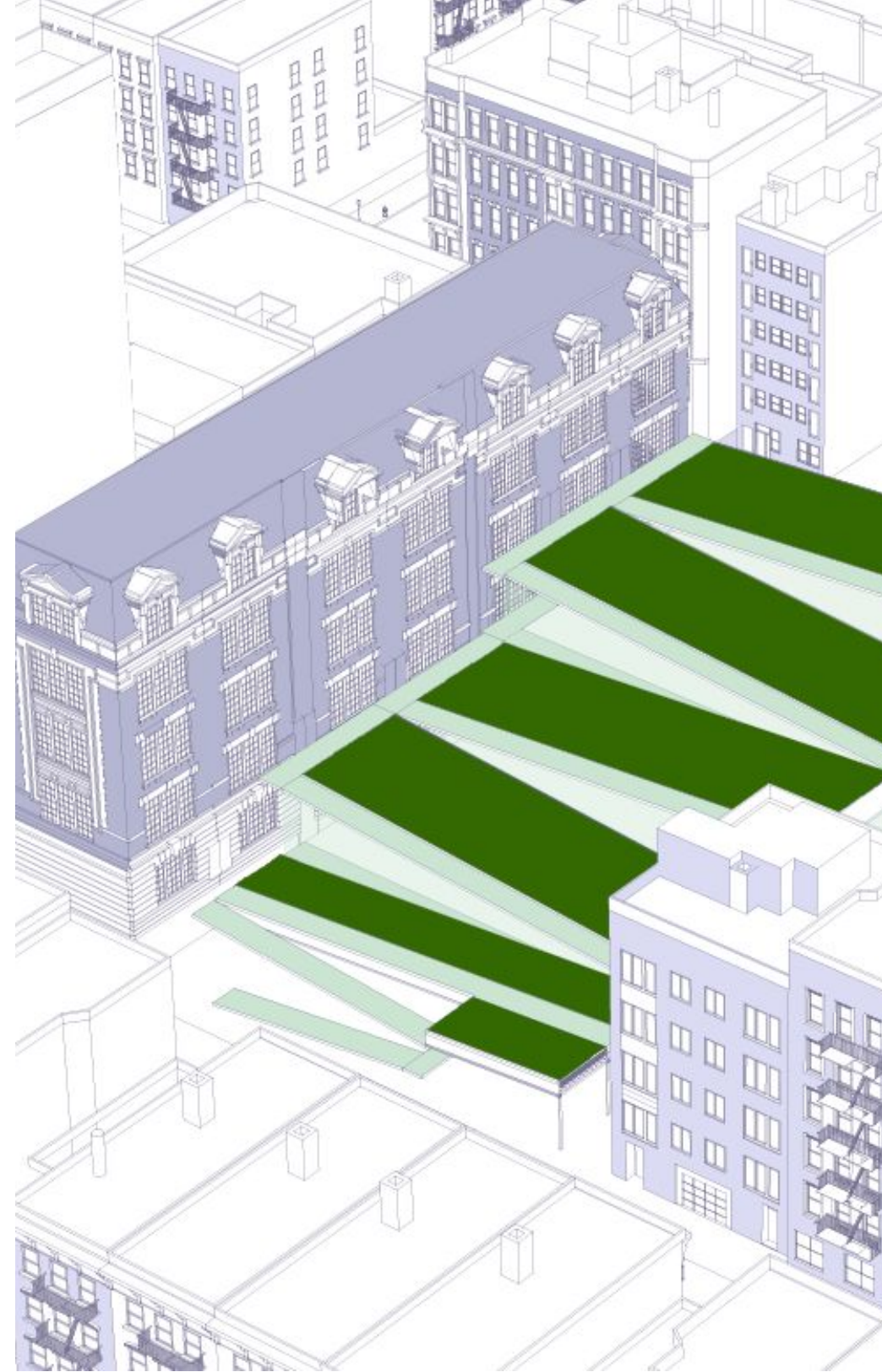


Green Variety



Program diagram





Above is a section cut north-south, showing the sloping ramps, and the thickness of the greenroofs. To the right is an image showing the design in context of the surrounding building, and a rendering of the greenhouses.

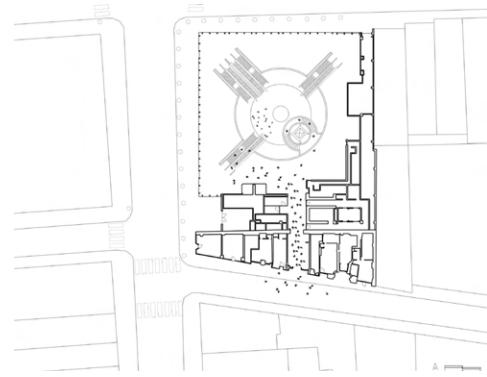
Broadway Commons

Designer Hallie Chuba
Location New York City
Instructor Lindsey Wikstrom
School Columbia GSAPP
Year Fall 2020 (Core I)

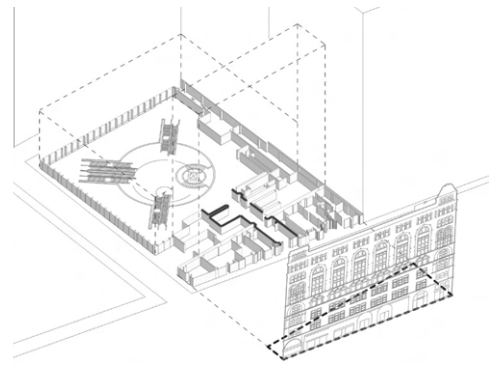
Brownstone is a material that has historically been unable to withstand the test of time when used as a building facade. The material can be more durable when formed into thicker panels, as opposed to when the stone is sheared. In this proposal, brownstone panels are used to create the steps and ramps of a newly designed public space placed within the Corbin Building. The ramps and steps wrap around a core of public restrooms, something that is desperately needed in Lower Manhattan. The steps create plaza-style seating, offering those working in the financial district a place to come and sit during lunch breaks; or perhaps, nearby Pace University students with a spot to sit outside while studying. The design as a whole acts as a new way to envision vertical public space, by providing restrooms that are available to everyone, in an area of Manhattan that is frequently unavailable to the public. The intervention removes a brownstone facade that prohibits the existing space from being public, in order to create a metropolitan commons.



Pictured: A rendering of the design.



Plan of intervention



Footprint of the Corbin building



Brownstone on site

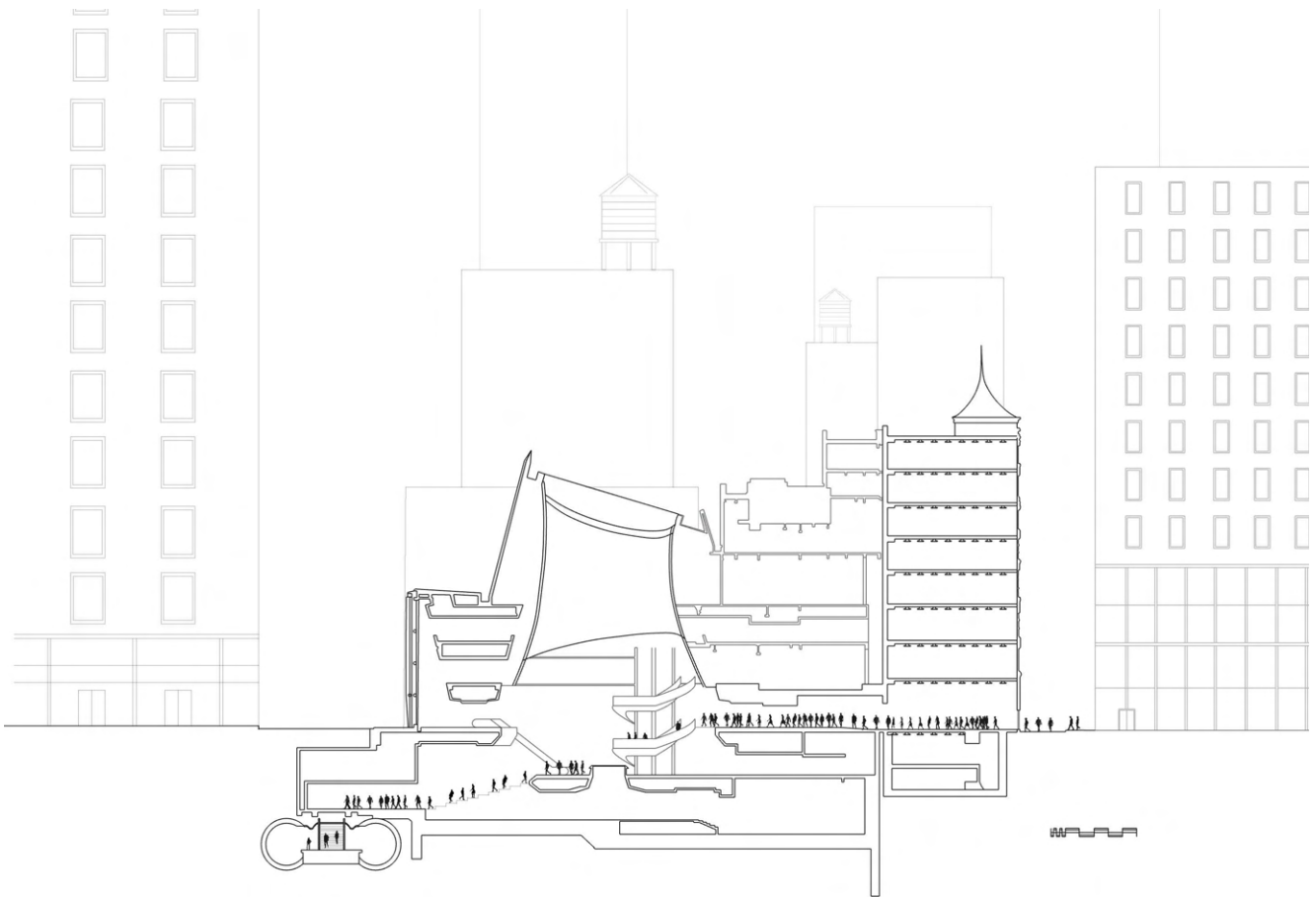


Brownstone in a quarry



Both images on the page are study models of earlier forms of the design.

Section cut north-south showing the existing flow of people through the space: what the intervention aims to change.



View of the design from Perry Street.

PS64 Building Systems + Envelope

Designer

Hallie Chuba, Carley
Pasquolotto, Zoona Aamir,
Jacqui Pothier

Location

New York City

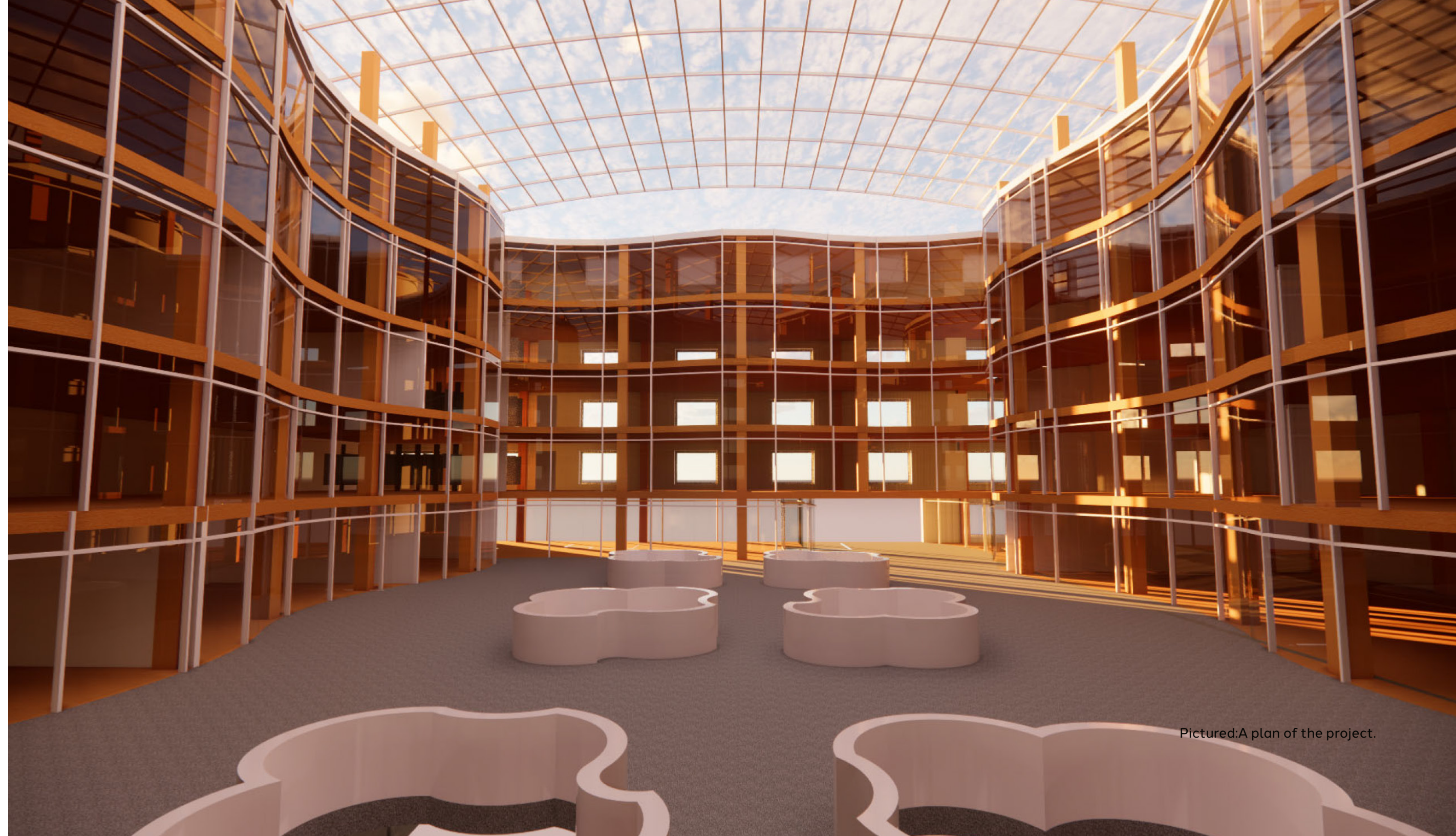
Instructor

Berardo Matalucci

School

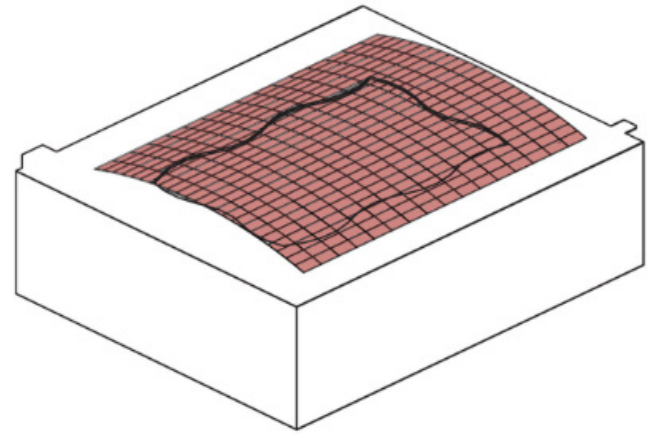
Columbia GSAPP

This project looks to analyze the building systems and envelope of a colleague's PS64 school design from a prior semester. The analysis looks at details and decisions made in regard to the structure, interior and exterior facades, sustainability practices, and mechanical functions.

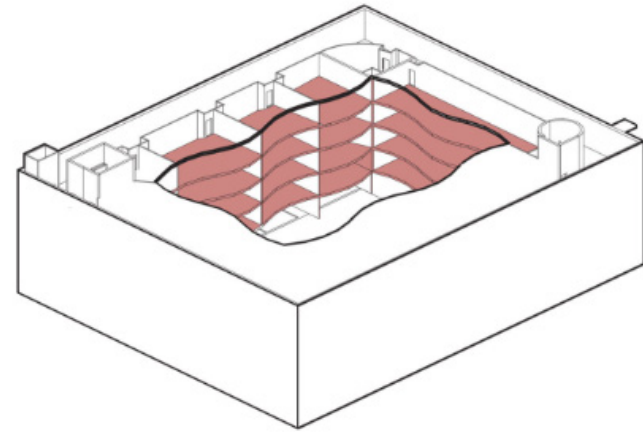


Pictured: A plan of the project.

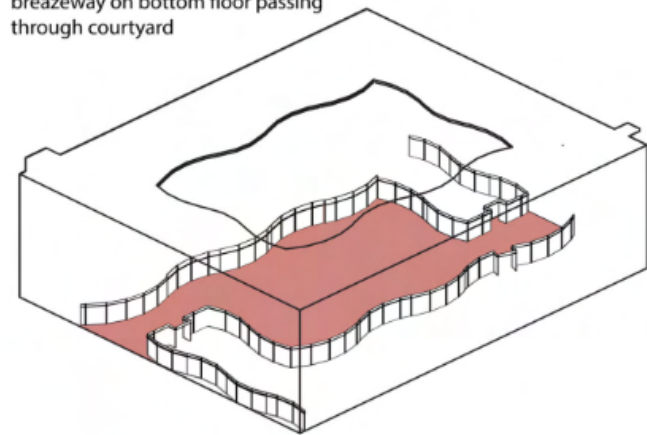
arched glass roof above courtyard



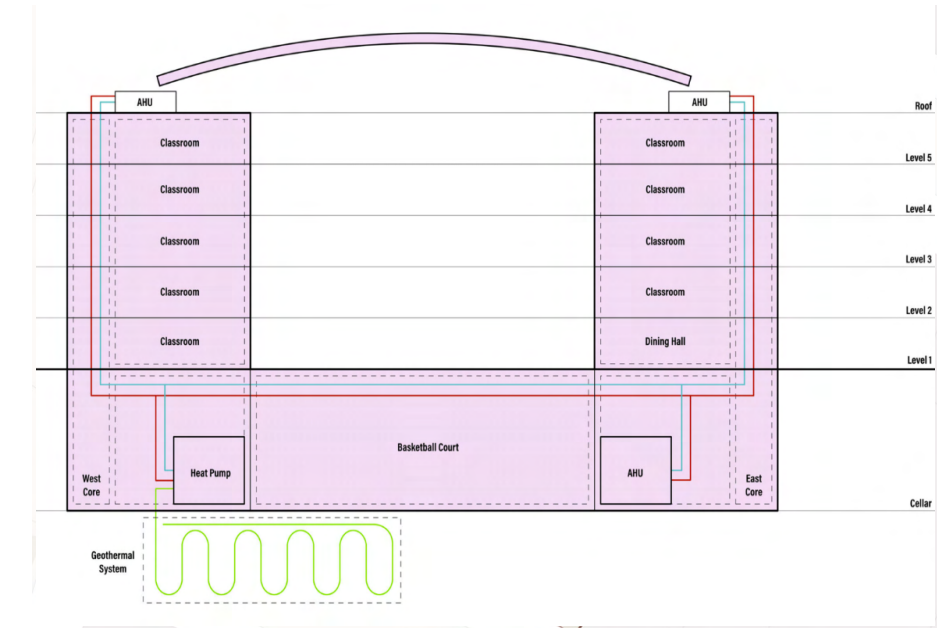
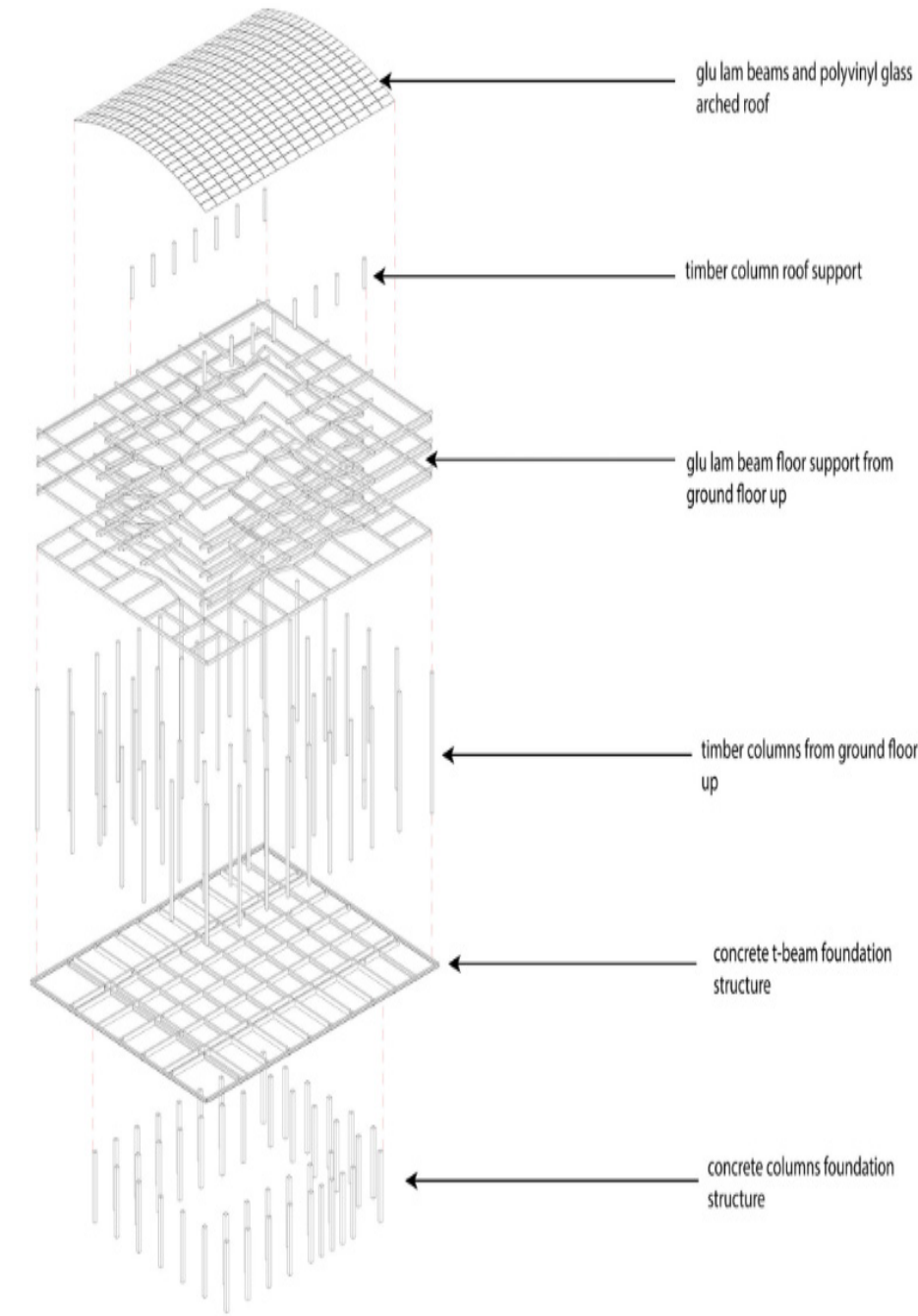
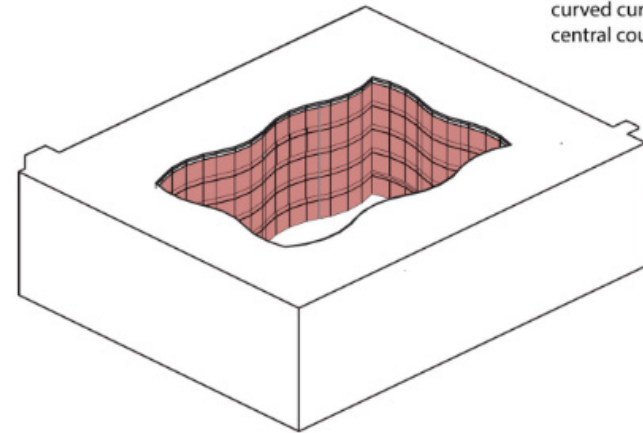
classrooms oriented around courtyard for maximum sunlight



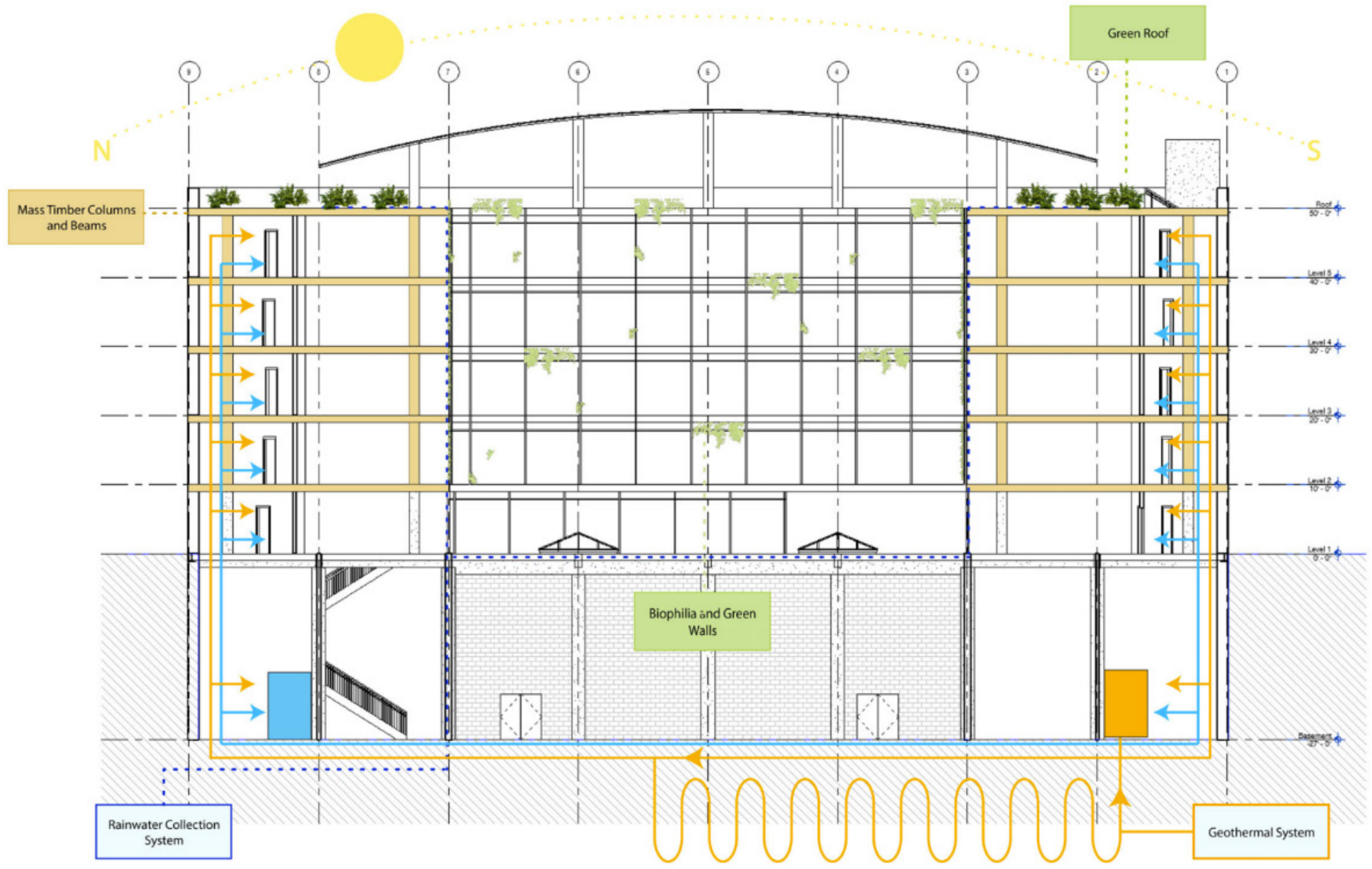
breazeway on bottom floor passing through courtyard



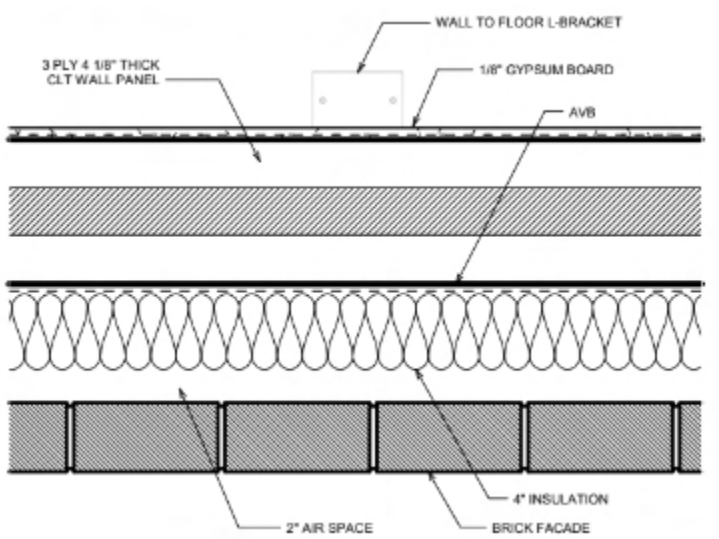
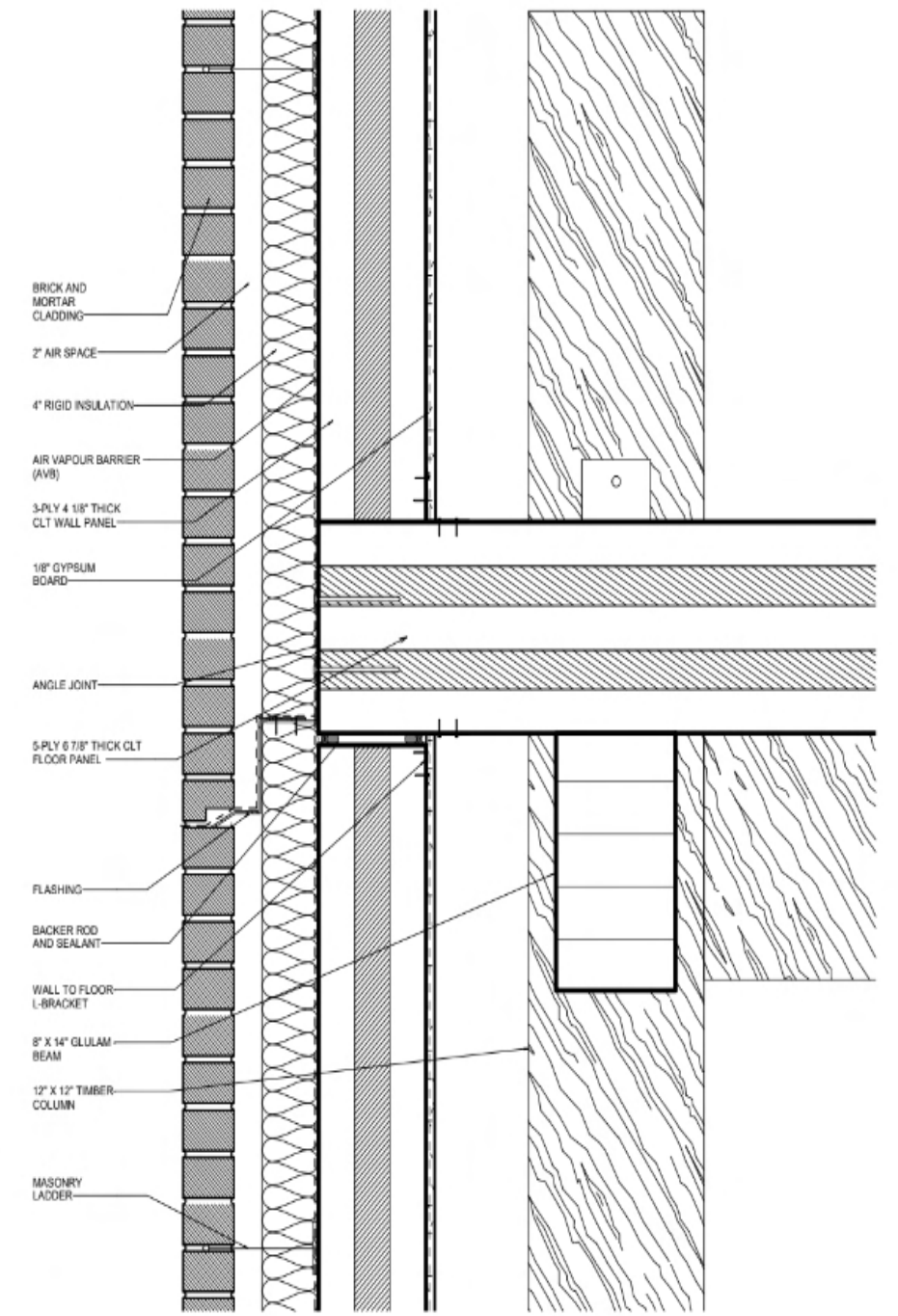
curved curtain wall surrounding central courtyard

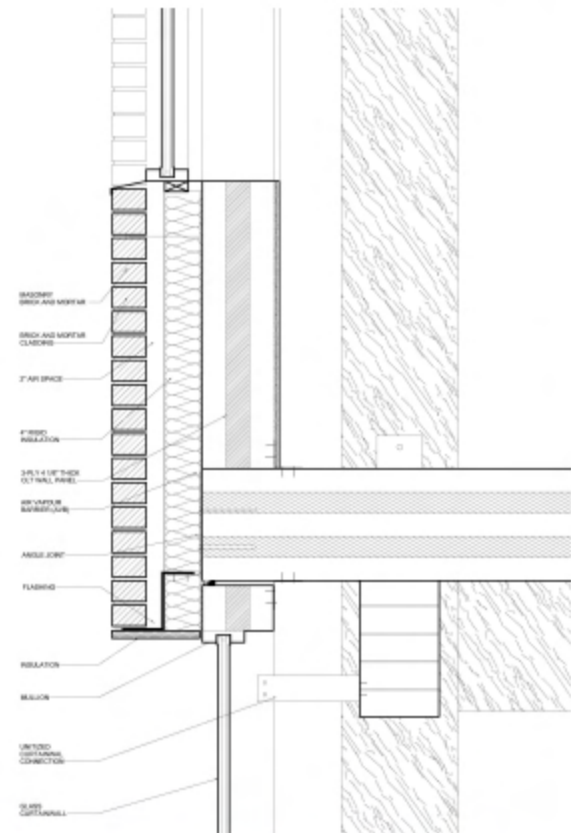


To the left is a render of the sea exhibition space, and above shows a land exhibition space.

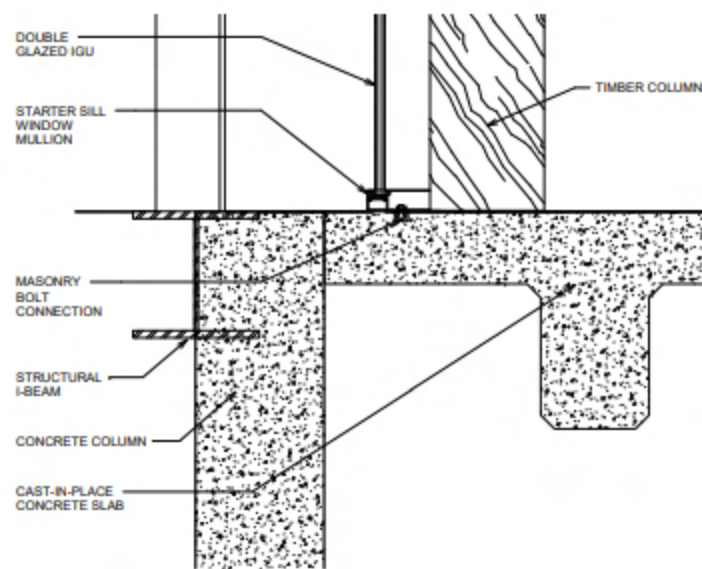


Above is a section cut east-west, showing the variation in heights of the walkway, as it flows from land to sea. Underneath one of the air installations there are restrooms, and below the walkway itself is an information/ticketing center.

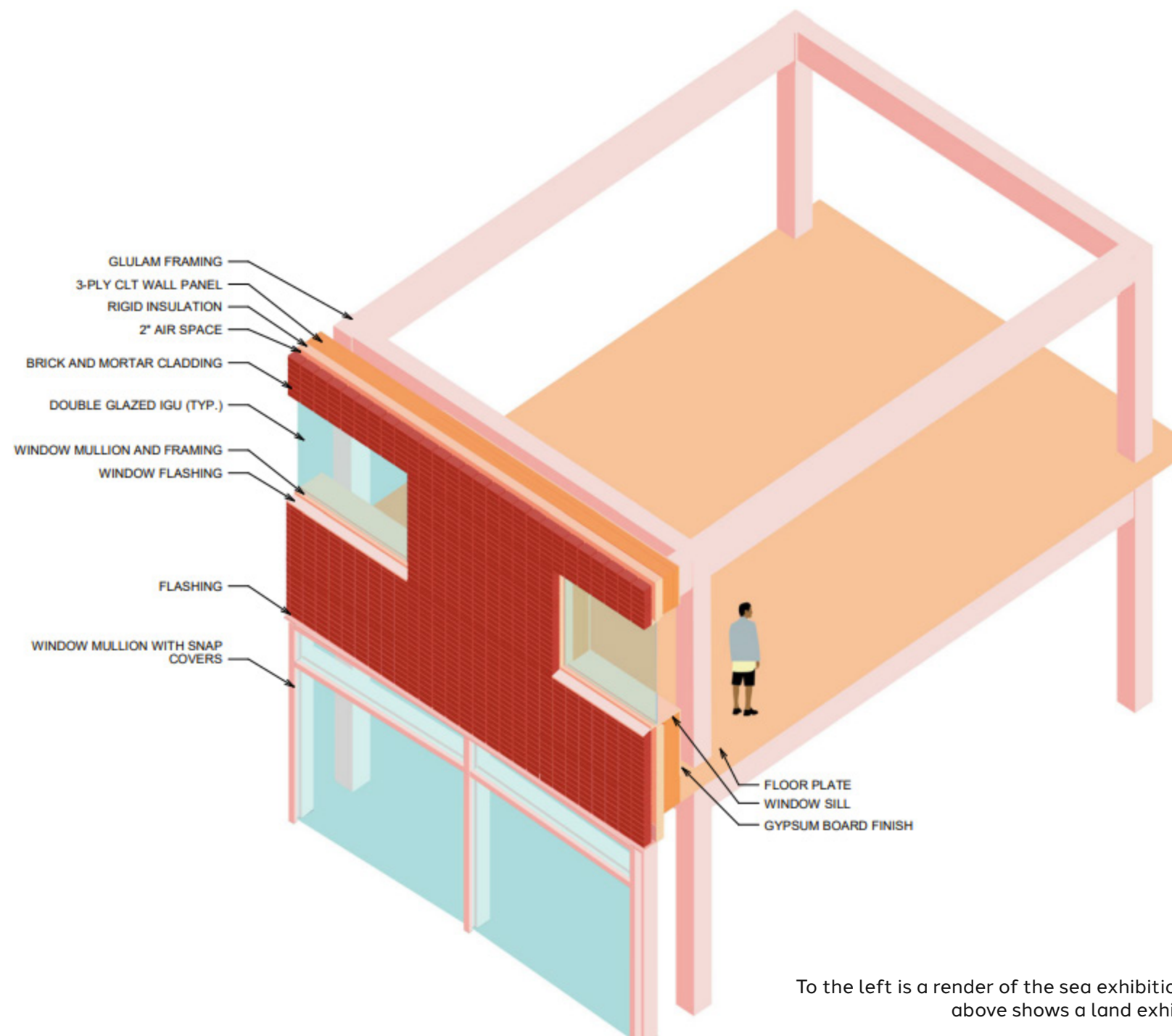




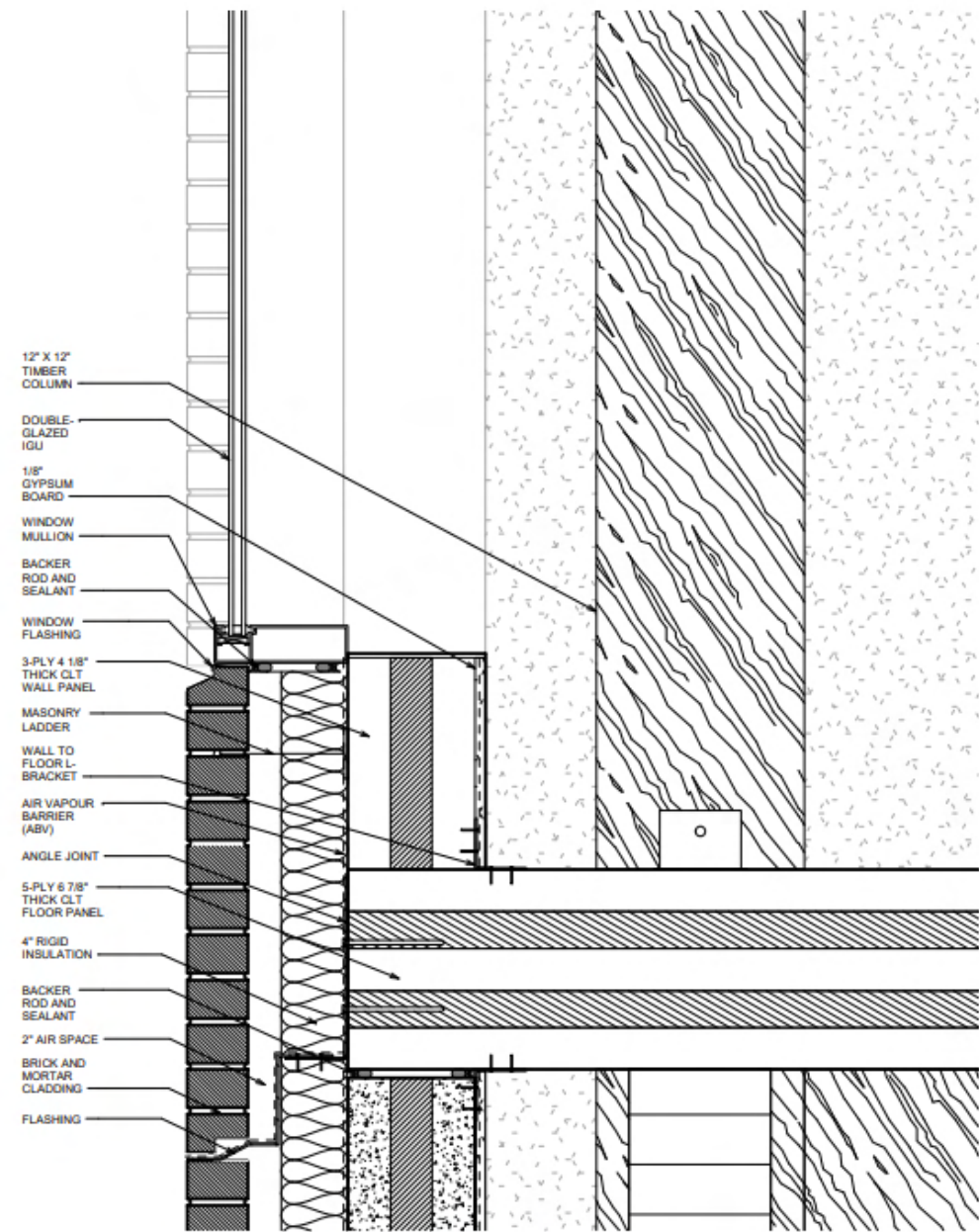
3 TYPICAL CURTAIN WALL DETAIL - SECTION HEAD
SCALE: 1/12" = 1'-0"



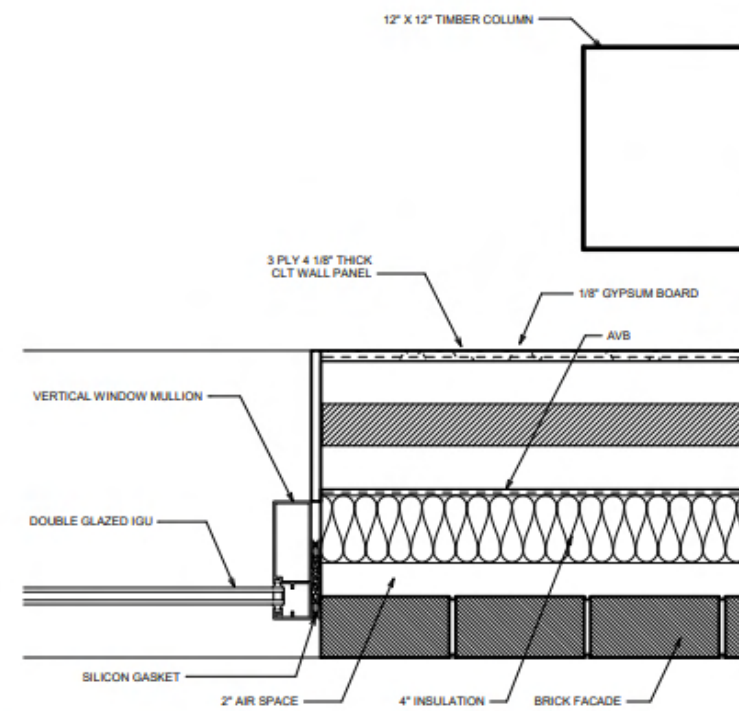
2 TYPICAL CURTAIN WALL DETAIL - SECTION SILL
SCALE: 1/12" = 1'-0"



To the left is a render of the sea exhibition space, and above shows a land exhibition space.



2 TYPICAL OPAQUE WINDOW MASONRY DETAIL - SECTION
SCALE: 3/4"=1'-0"



1 TYPICAL OPAQUE WINDOW MASONRY DETAIL - PLAN
SCALE: 3/4"=1'-0"

