



ARCHITECTURE
PORTFOLIO
RYAN BARBOUR

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01 - 06



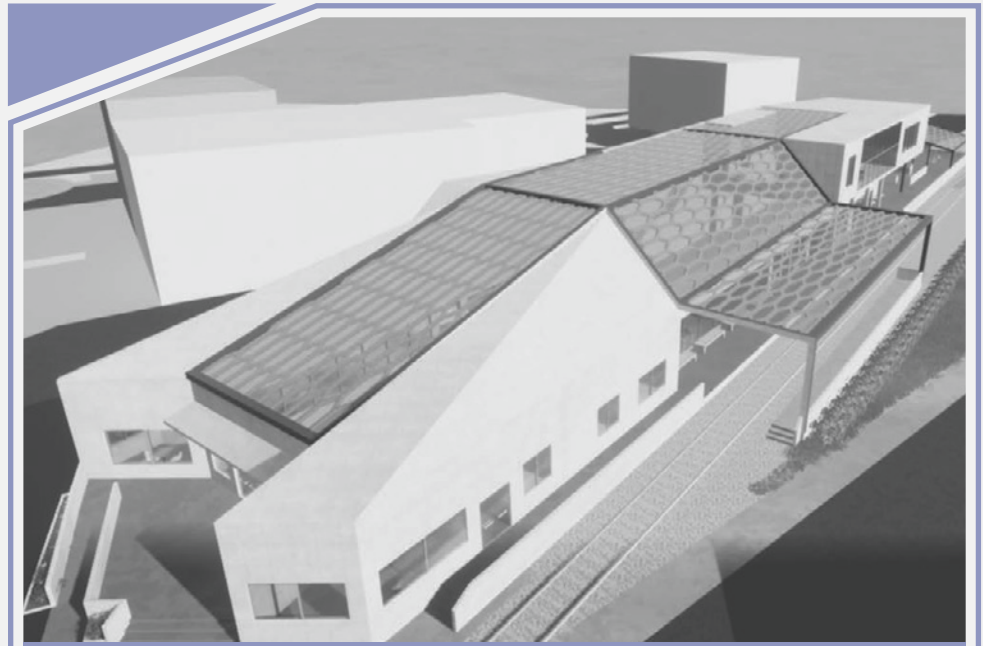
Post - Earthquake Emergency City

07 - 12



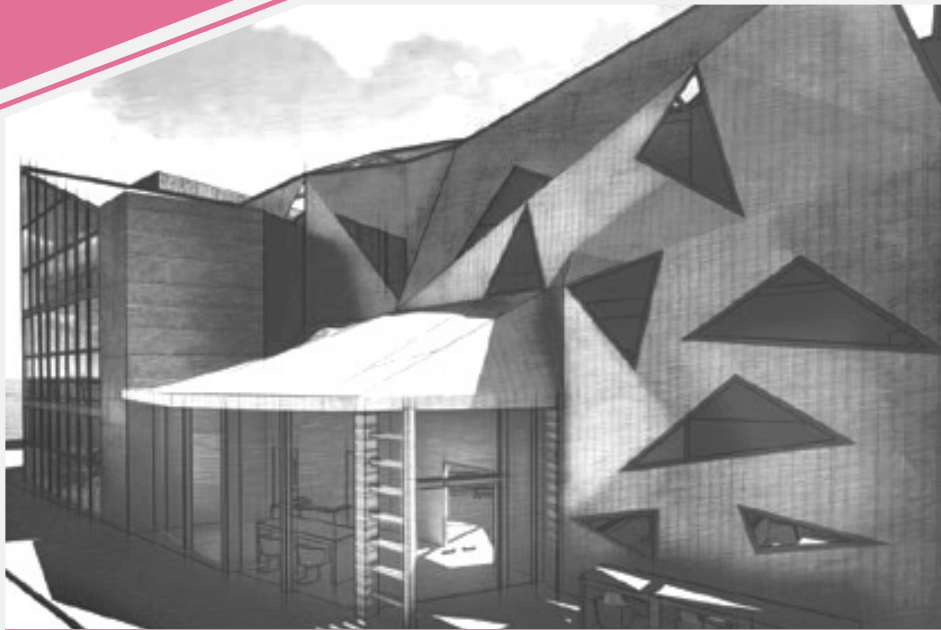
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Experience with Sketchup, Rhino3D, AutoCAD, Illustrator, Photoshop, Twinmotion, Lumion, hand-drawing, & model making

Contact Information & Education

What is Architecture?

To me, public architecture is the process of designing a space specific to the area that it resides in, and it reflects the goals and needs of the people it was designed for. Architecture allows people to come together and enjoy the company of others, as well as the world around them. It is a medium in which the designer can convey emotions to share with the rest of the world, while at the same time providing a specific purpose to the urban environment that surrounds it.

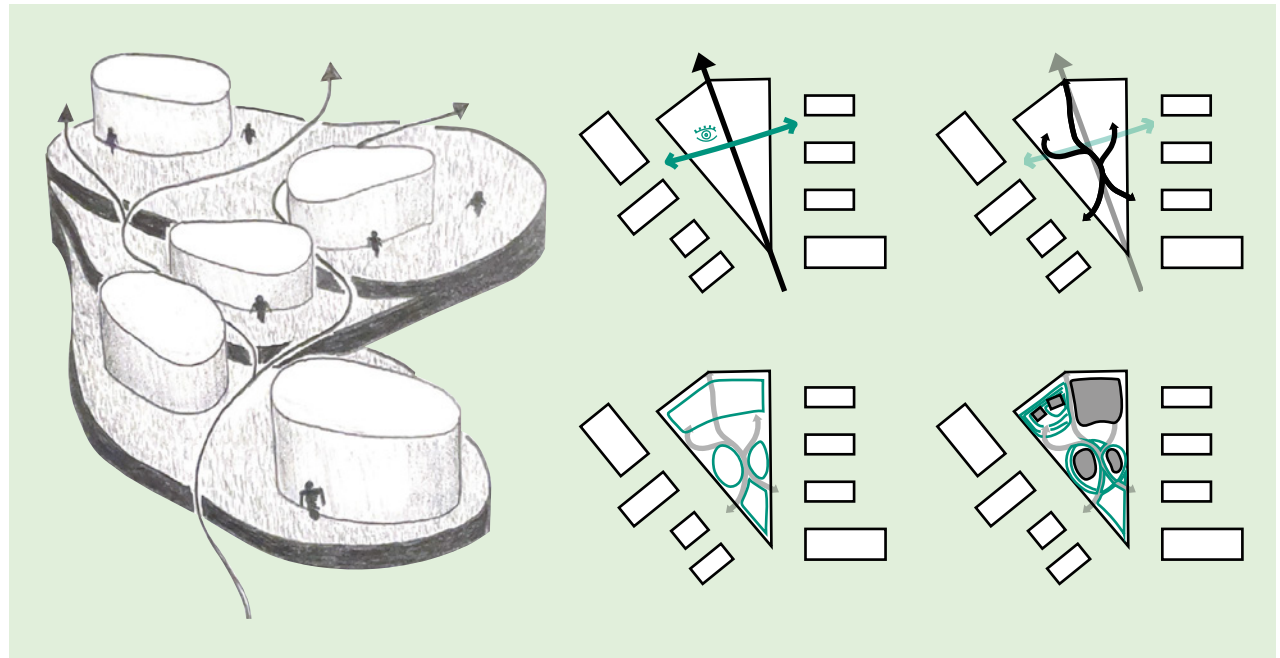
ELIZABETH COMMUNITY GARDEN & MARKET



The city of Elizabeth is one of the worst food deserts in New Jersey, offering very little as far as fresh food is concerned. The nearest super market from the project street along Morris Avenue and Cherry Street is a 40 minute walk. Given this data, it was decided that the main functions of the project would be to provide the residents of Elizabeth with a facility focused on the growing and distribution of high quality, fresh produce.

EXPLORATION & INTERACTIVITY

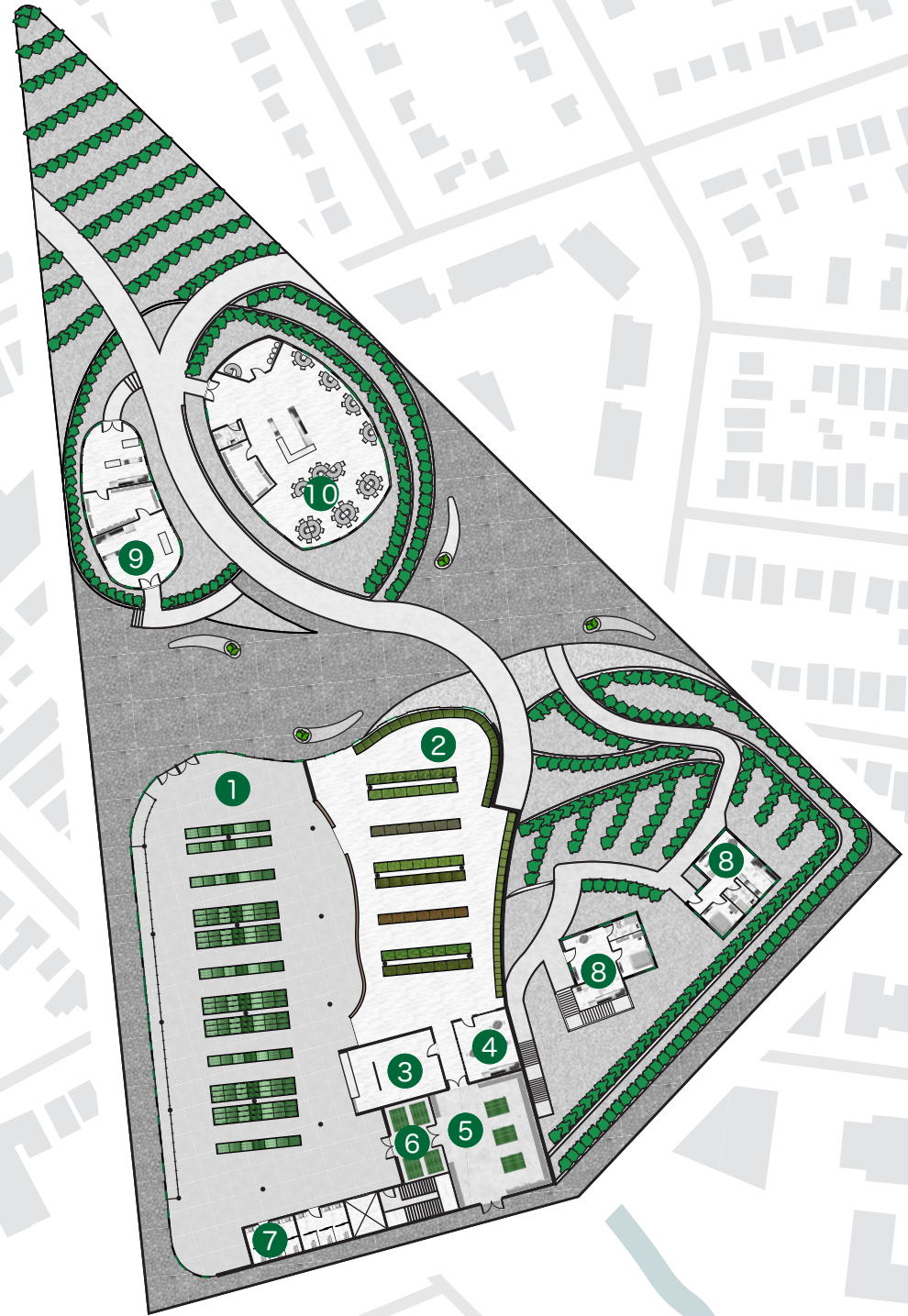
The concept was to let existing site lines and surrounding context create growing spaces on multiple tiers resembling a natural landscape. Along with this, a path extends from one end of the site to the other to let people explore every aspect of the site and become immersed within the different growing areas. It was important to prevent the path from obstructing the visual connection between the apartment complex along Cherry Street and the elementary school on Morris Avenue, but to instead allow the path to create a new open space for everyone to use.

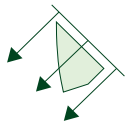


Vertical growing occurs all throughout the site and becomes more abundant near the entrances of each building.

SITE LEGEND

- 01 - Market Space (10,800 sf)
- 02 - Hydroponics (6,000 sf)
- 03 - Food Bank (450 sf)
- 04 - Staff Room (500 sf)
- 05 - Cold Storage (1,300 sf)
- 06 - Storage (500 sf)
- 07 - Restrooms (450 sf)
- 08 - Apartments (1,800 sf)
- 09 - Commercial Kitchens (1,250 sf)
- 10 - Community Space (2,950 sf)
- Outdoor Growing - 27,500 sf

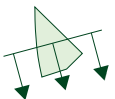
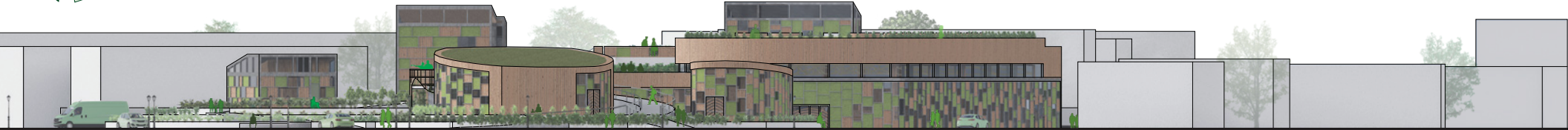




SOUTHWEST ELEVATION



SOUTH ELEVATION



SOUTH SECTION



WEST SECTION



PERSPECTIVE RENDERS



EXTERIOR GROWING



APARTMENT LEVEL



START OF PATHWAY



ROOFTOP GROWING



PLAZA



MARKET INTERIOR



HYDROPONICS

It's important to allow for the facility to not only provide ample growing space for the production of fresh produce, but to also design with community engagement in mind. By doing so, you promote eating healthily and spread knowledge on how to grow a variety of different crops.

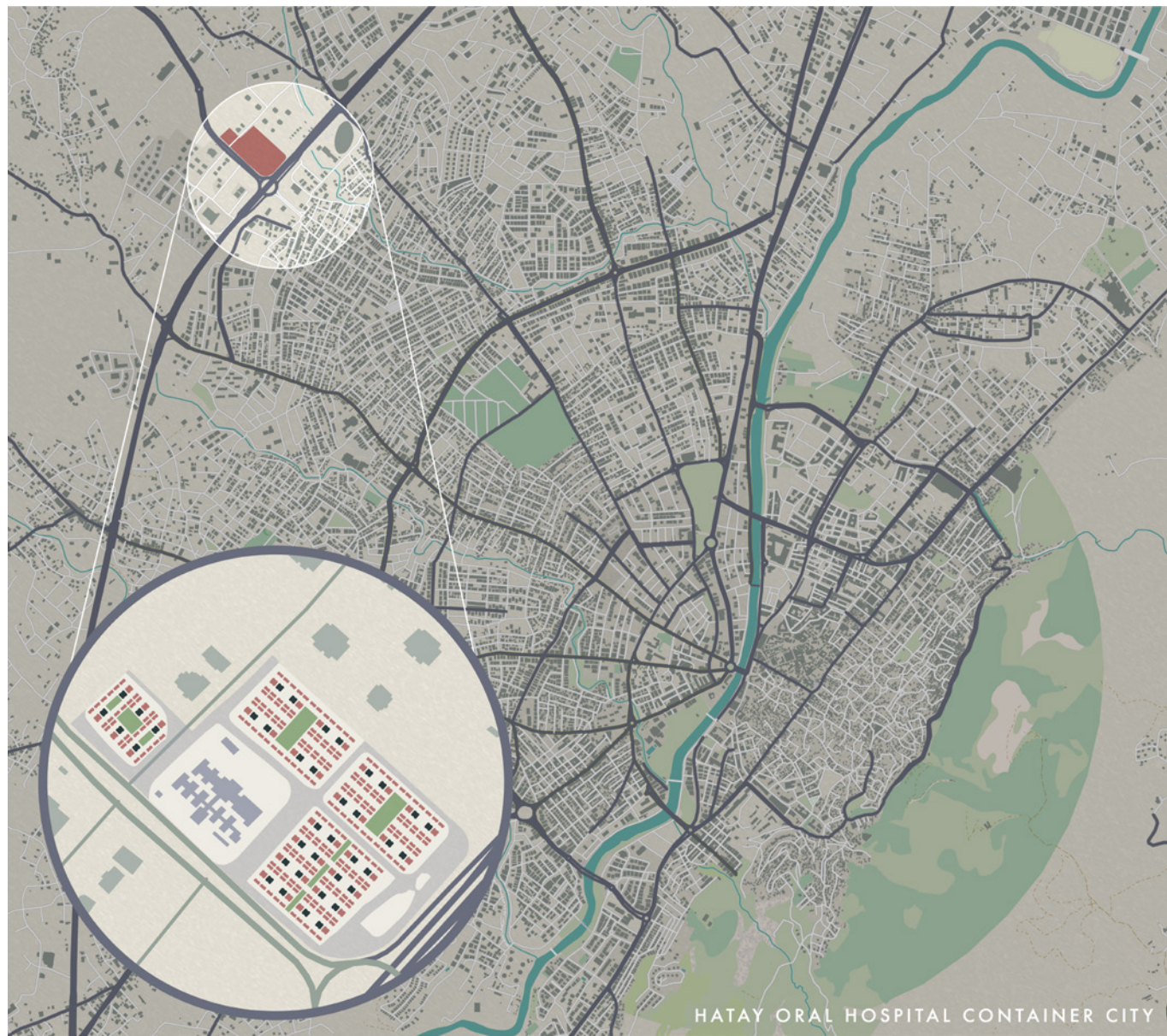


**POST EARTHQUAKE ANTAKYA:
RAPIDLY DEPLOYABLE TOWN BLOCK**

DESIGNING FOR THE EMERGENCY - SHORT TERM

On February 6, 2023, two earthquakes completely devastated many regions in Turkey and the outer portion of Syria. The southernmost region of Turkey, Hatay, suffered on an extraordinary level. 80% of the region's buildings collapsed or were demolished. Over 2.6 million people were left living in AFAD tent cities, and 79,000 in container cities. The standard container unit only barely protect their inhabitants from the elements. Even worse, they provide little to no insulation, making more extreme seasonal conditions harder to endure. Also, the standard container city aims to maximize on carrying capacity, deploying row after row of metal boxes of housing, disregarding secondary spaces or outdoor landscapes for people to interact with.

Keeping this information in mind, the main goal of the project became the planning and designing of a container city layout that would be composed of not only housing units, but also double-spaced units intended to be used as marketplaces, dining halls, workshops, educational facilities, and sanitation facilities. Also, space would be designated for outdoor parks in order to provide more comfort to those who have been displaced by the earthquakes.

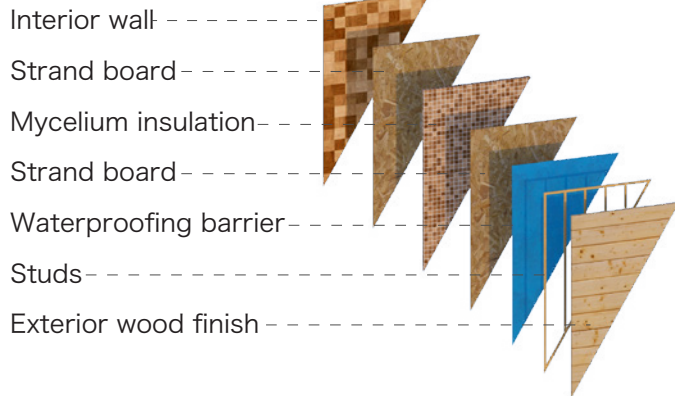


The frames of 4 units arrive to the site in 1 truck. Each frame can be unfolded and set up on site without the use of heavy machinery or tools, which is important since these resources have become more scarce in Turkey following the earthquake. Then, a variety of different panels are fit into the frame, completing the unit. By using this frame and panel system, not only do the units compress themselves down to less than 1/4 the dimensions of the standard container, but it also allows for each unit owner to customize their unit however they like. It also makes the unit more adaptive, able to alter itself depending on current climate conditions.

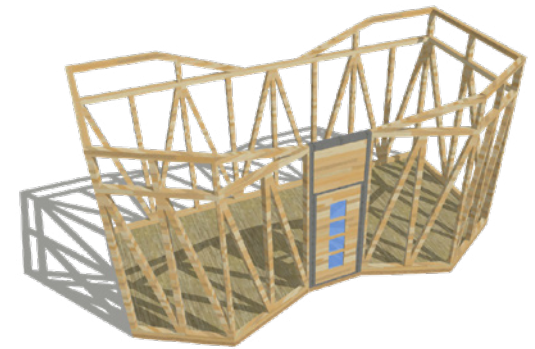
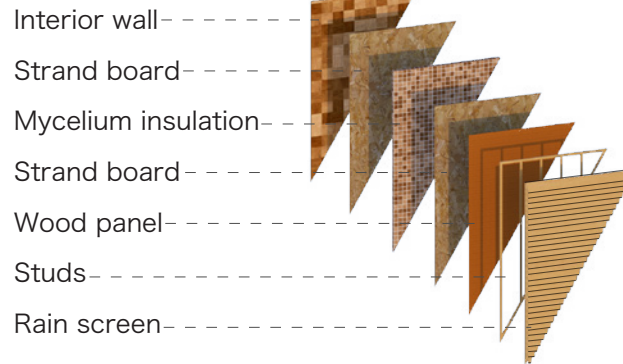


PANEL SYSTEMS

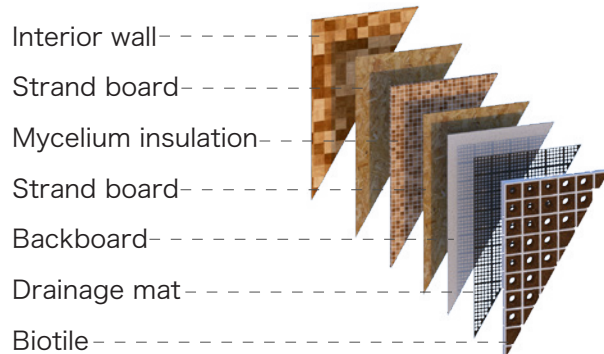
PINEWOOD PANEL



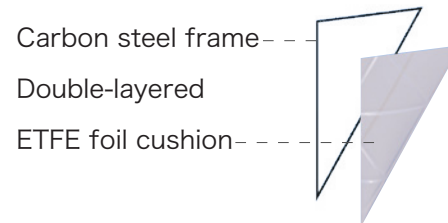
RAINSCREEN PANEL



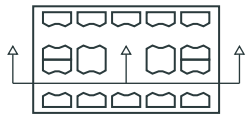
GREENWALL PANEL



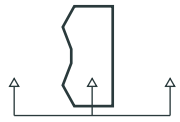
ETFE PANEL



How it is deployed:



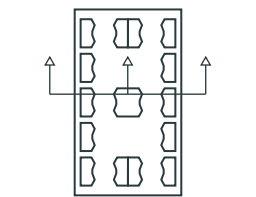
Courtyard Elevation



Elevation 2



Single Unit Section



Block Section
(Bedroom, Workshop,
& Kitchen)



CONCEPTUAL RENDERS

- 0 1 - Park Space
- 2-5 - Courtyard Variations
- 0 6 - Container Row / Alley
- 0 7 - Unit (Bedroom)
- 0 8 - Unit (Kitchen)



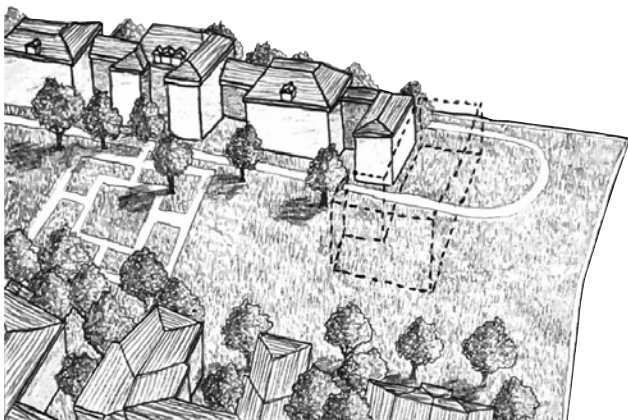
ELLIS ISLAND
ADAPTIVE REUSE
EXHIBIT



Being completely surrounded by water, Ellis Island contains several stunning sight lines in every direction. North of the island is the battery, where a view of the cityscape can be seen. To the east is Governor's Island, containing unique landscapes and architectural projects of different styles. The Statue of Liberty can be seen south of Ellis Island, and Liberty Park to the west.

CONDITIONS

The infill combining the second and third islands provide roughly 142,000 square feet of green space, which is sheltered from the northeastern winds that occur by the rows of connecting wards. The entirety of the courtyard space is in the direct path of sunlight.



THE BATTERY



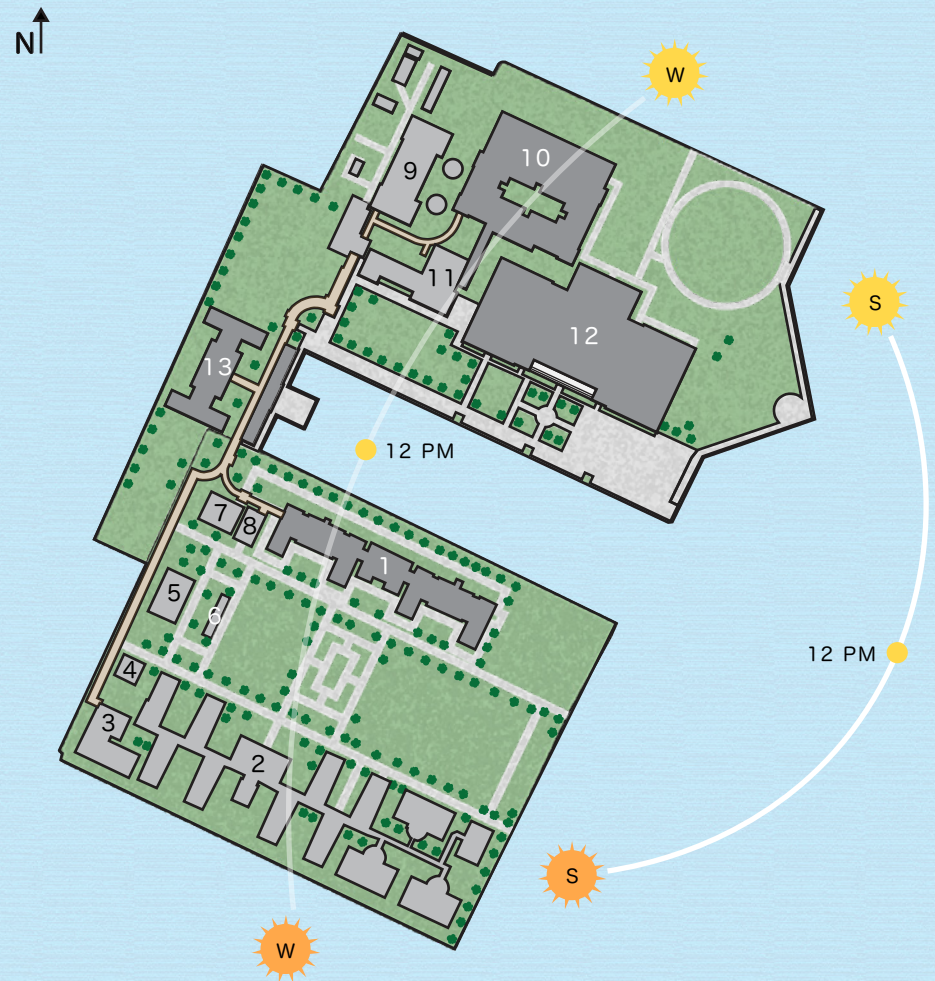
GOVERNOR'S ISLAND



STATUE OF LIBERTY



LIBERTY PARK



MAP KEY

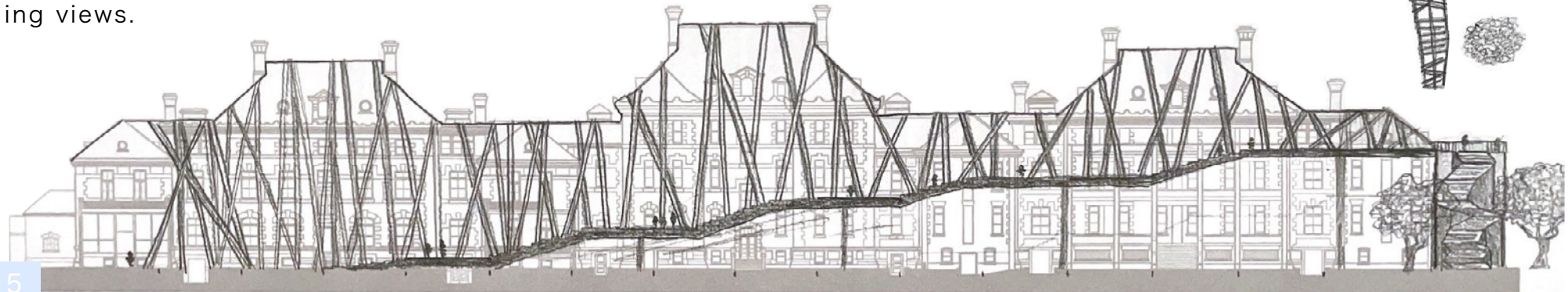
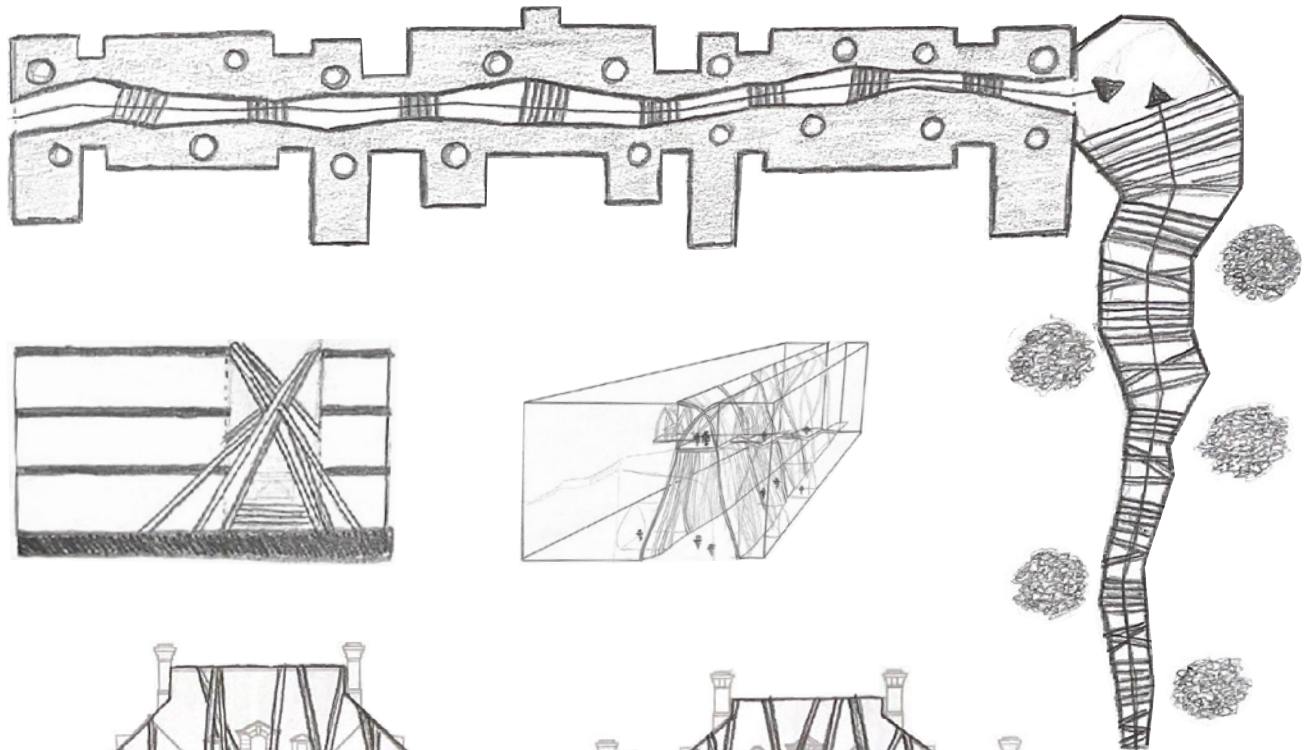
- 01 - Main Hospital Building
- 02 - Wards
- 03 - Powerhouse
- 04 - Nurse's Quarters
- 05 - Recreation Building
- 06 - Recreation Shelter
- 07 - Hospital Outbuilding
- 08 - Psychopath Ward
- 09 - Dormitory
- 10 - Kitchen and Laundry
- 11 - Main Immigration Building
- 12 - New Immigration Building

STORIES FROM THE ISLAND

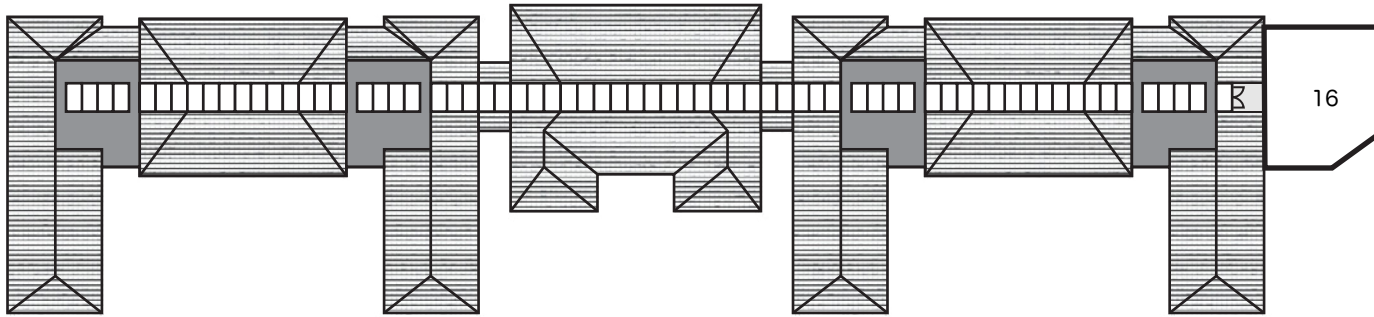
Each and every facility on the island contains the memories and stories of the island's inhabitants—people who have traveled to Ellis Island seeking out a new beginning. Both radiant and somber, these memories include succeeding in obtaining citizenship to the United States and the denial of it. This resulted in prolonged stays on the island, separation from loved ones, and in even extreme cases, deportation. The exhibition space being designed inside the walls of the hospital aspires to display these stories in a way that places you in them.

CONCEPT

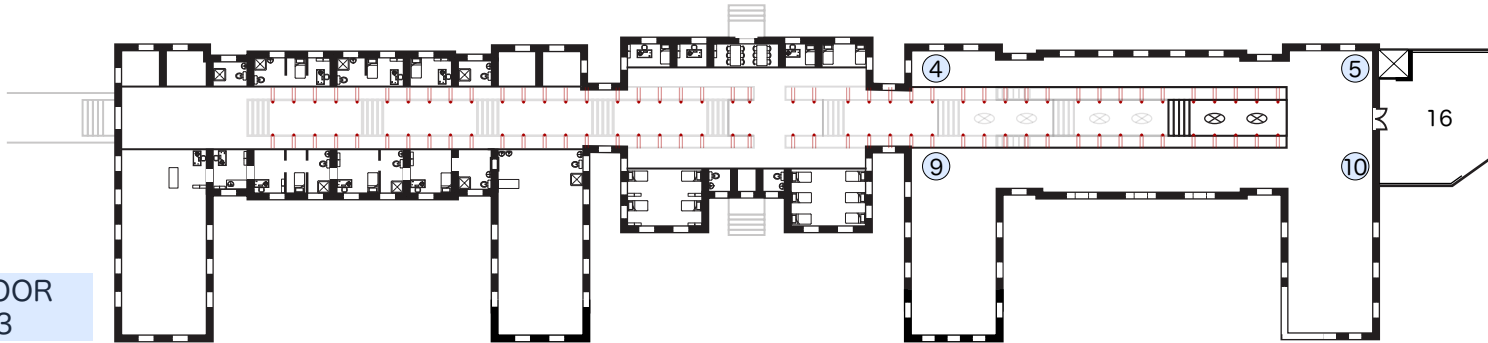
The goal of the repurposed space is to create a system of progression that tells the stories of the immigrants on the island. As you travel along the path, there are relics of the past, used to show the advancement of the story. At the end of the path, visitors are released onto a viewing deck, framing the surrounding views.



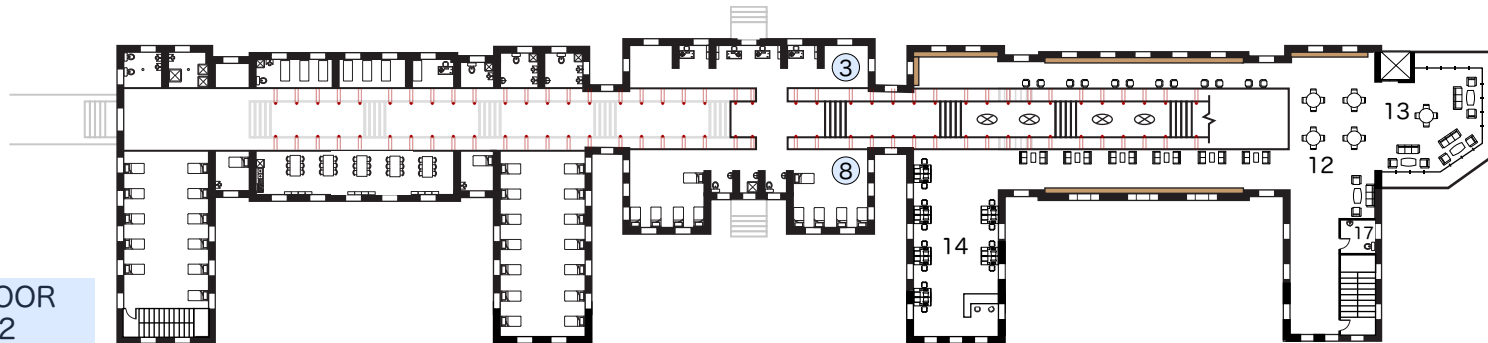
ROOF



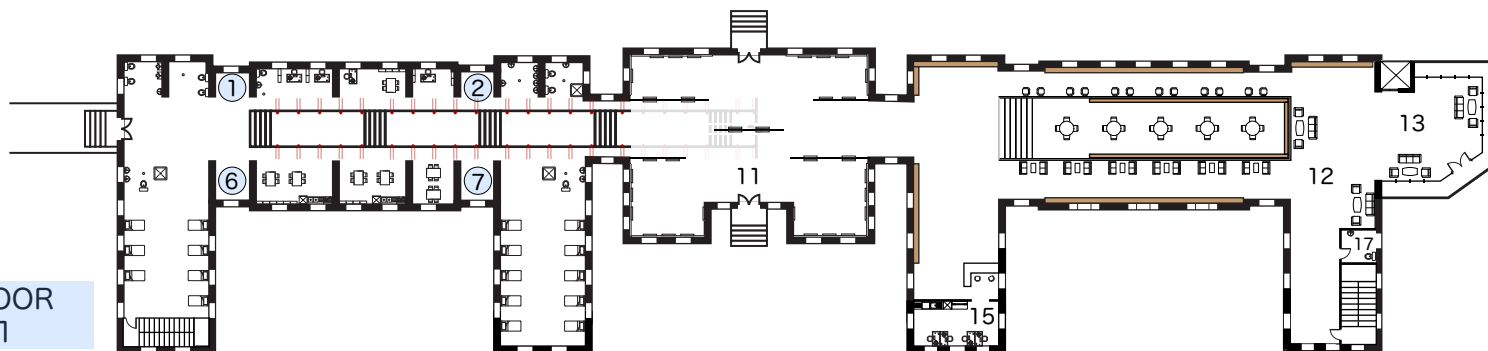
FLOOR 3



FLOOR 2



FLOOR 1



FLOOR KEY

- 01-10: Artifacts
- 11: Gallery
- 12: Library
- 13: Reading Area
- 14: Computer Room
- 15: Staff Room
- 16: Viewing Deck
- 17: Bathroom(s)



CERTIFICATES OF APPROVAL



HEARING ROOM TABLE



INTELLIGENCE TEST



HOSPITAL BED FRAME



HOSPITAL UTENSILS

EAST WING | SOUTH SECTION
NORTH ELEVATION



PERSPECTIVE GUIDE

6

7

2

3



PERSONAL BELONGINGS



LUGGAGE



HAMMOCK BED



WHITE CHALK LEGEND



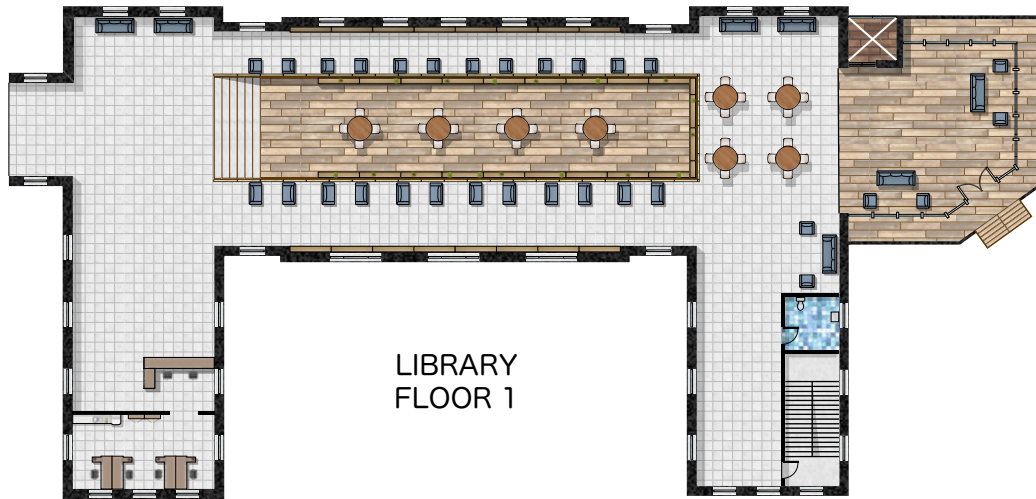
IMMIGRANT ARTICLES



1

4

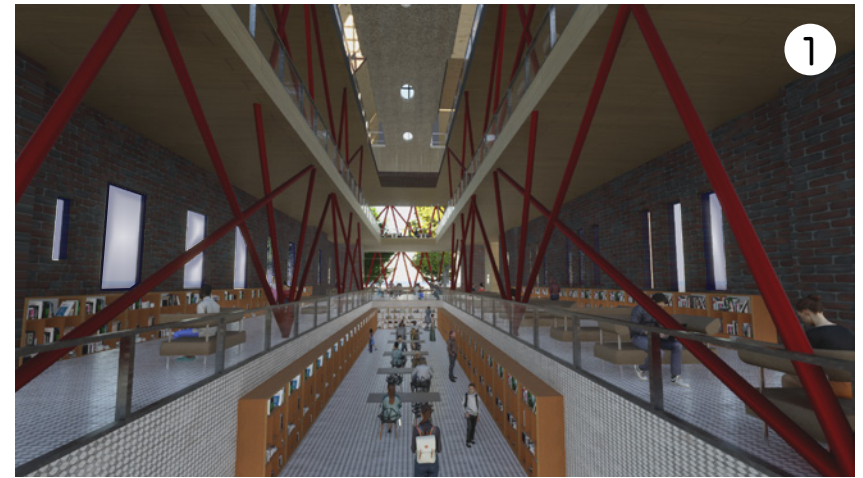
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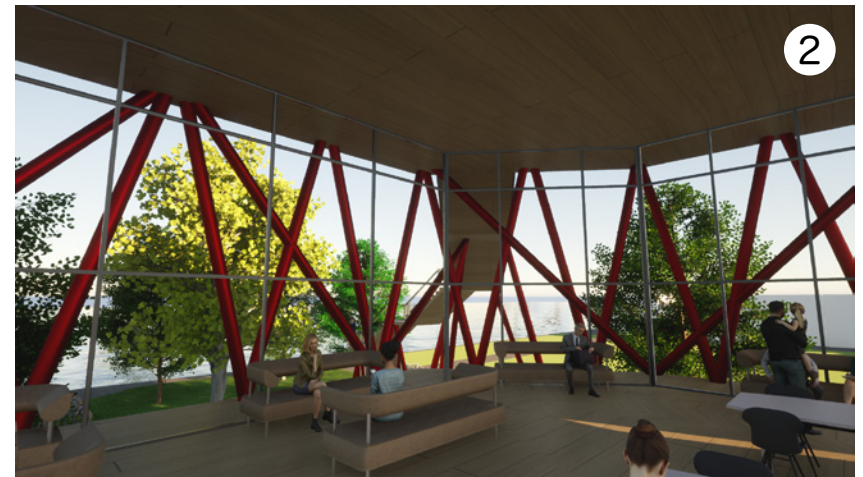
LIBRARY
FLOOR 1



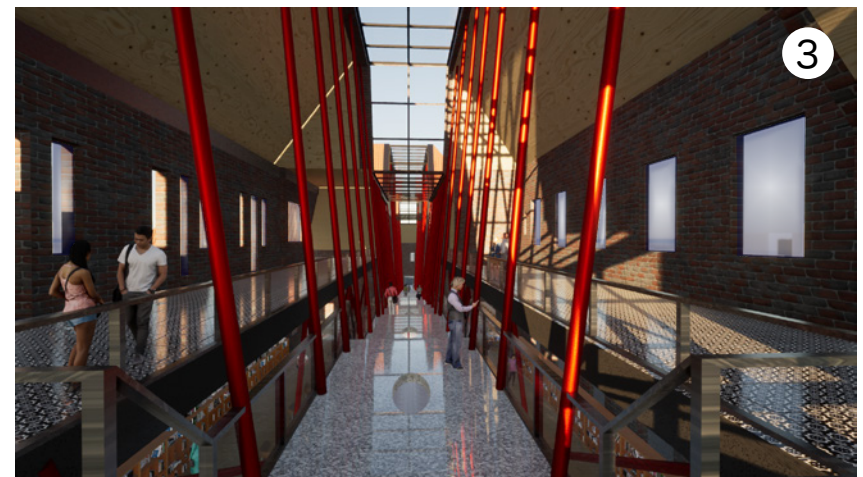
LIBRARY
FLOOR 2



1

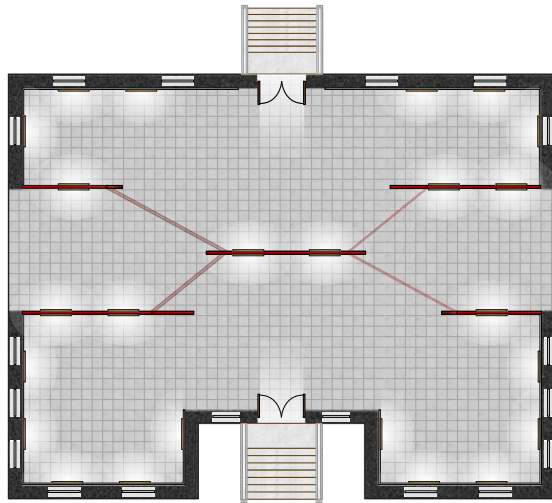


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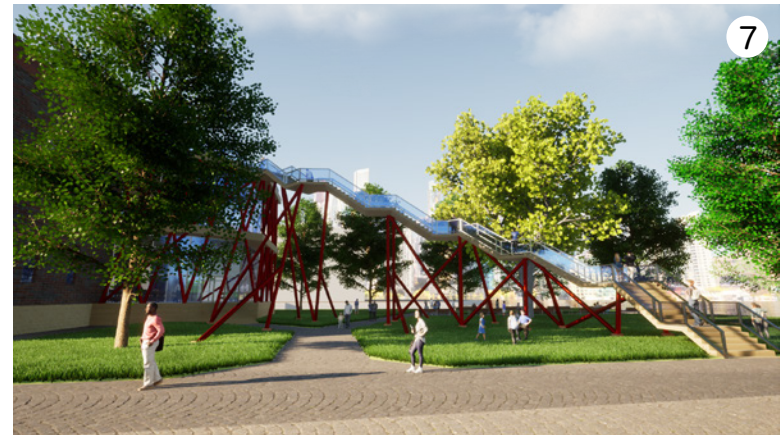
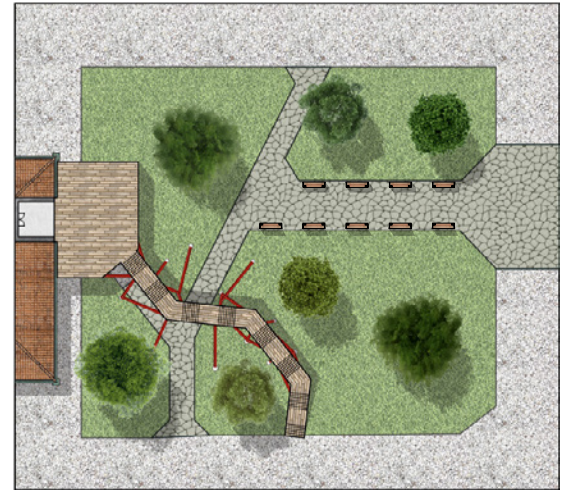


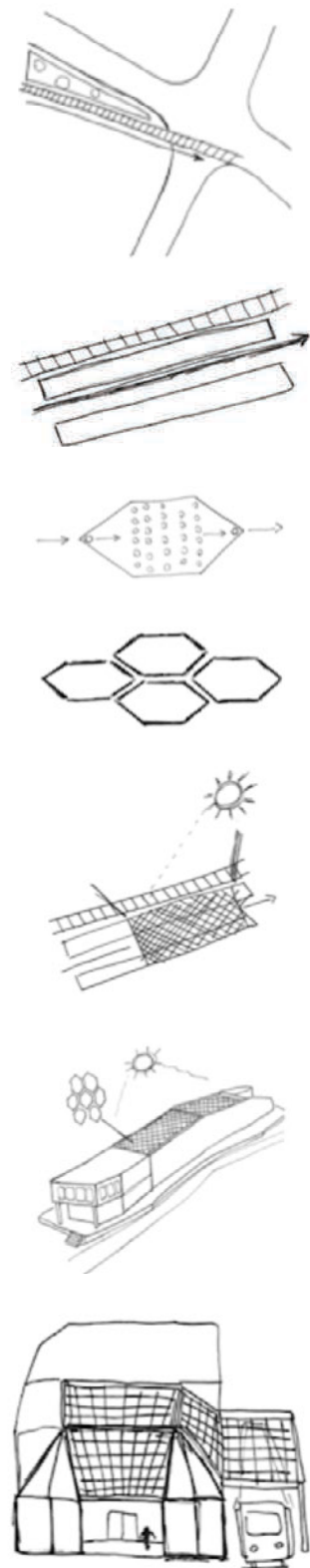
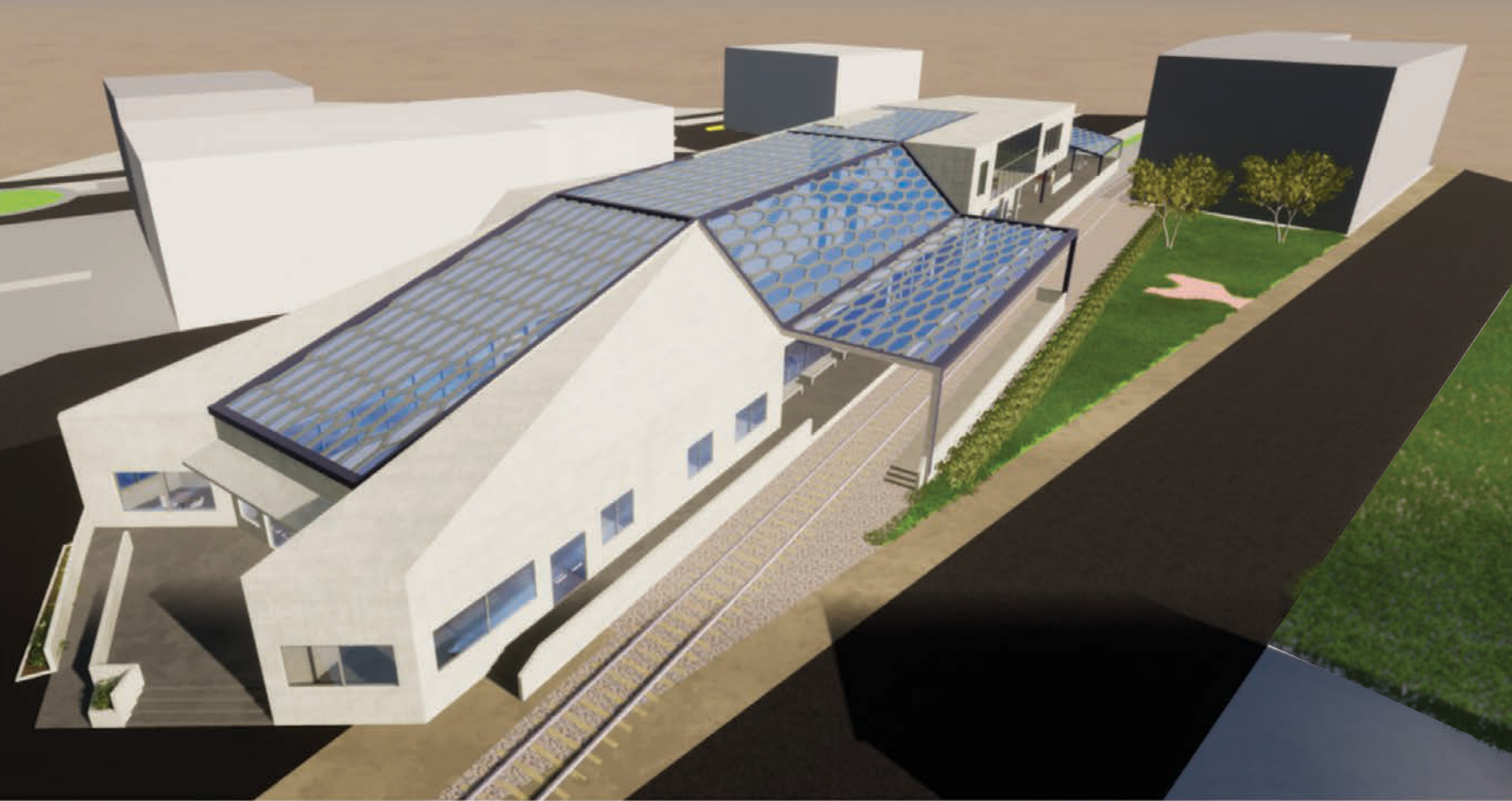
3

GALLERY



COURTYARD



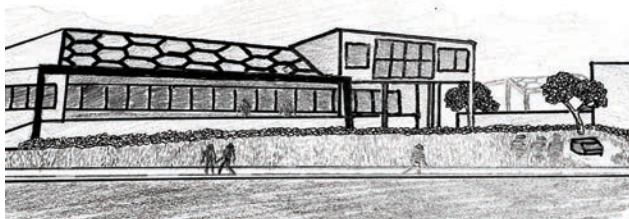


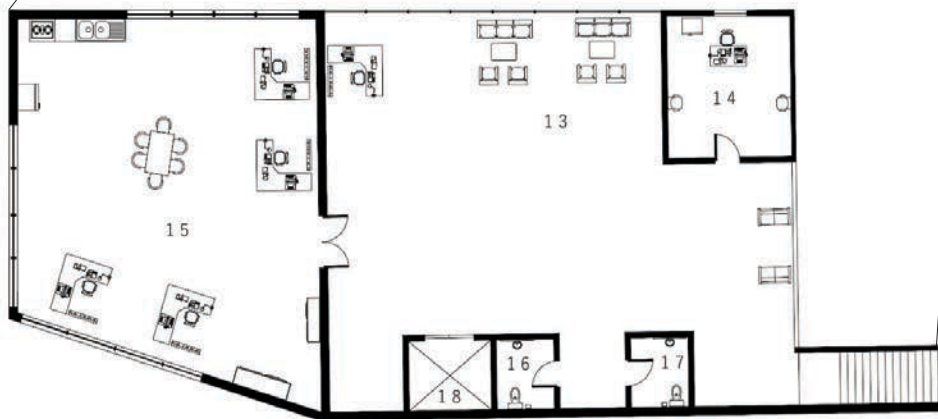
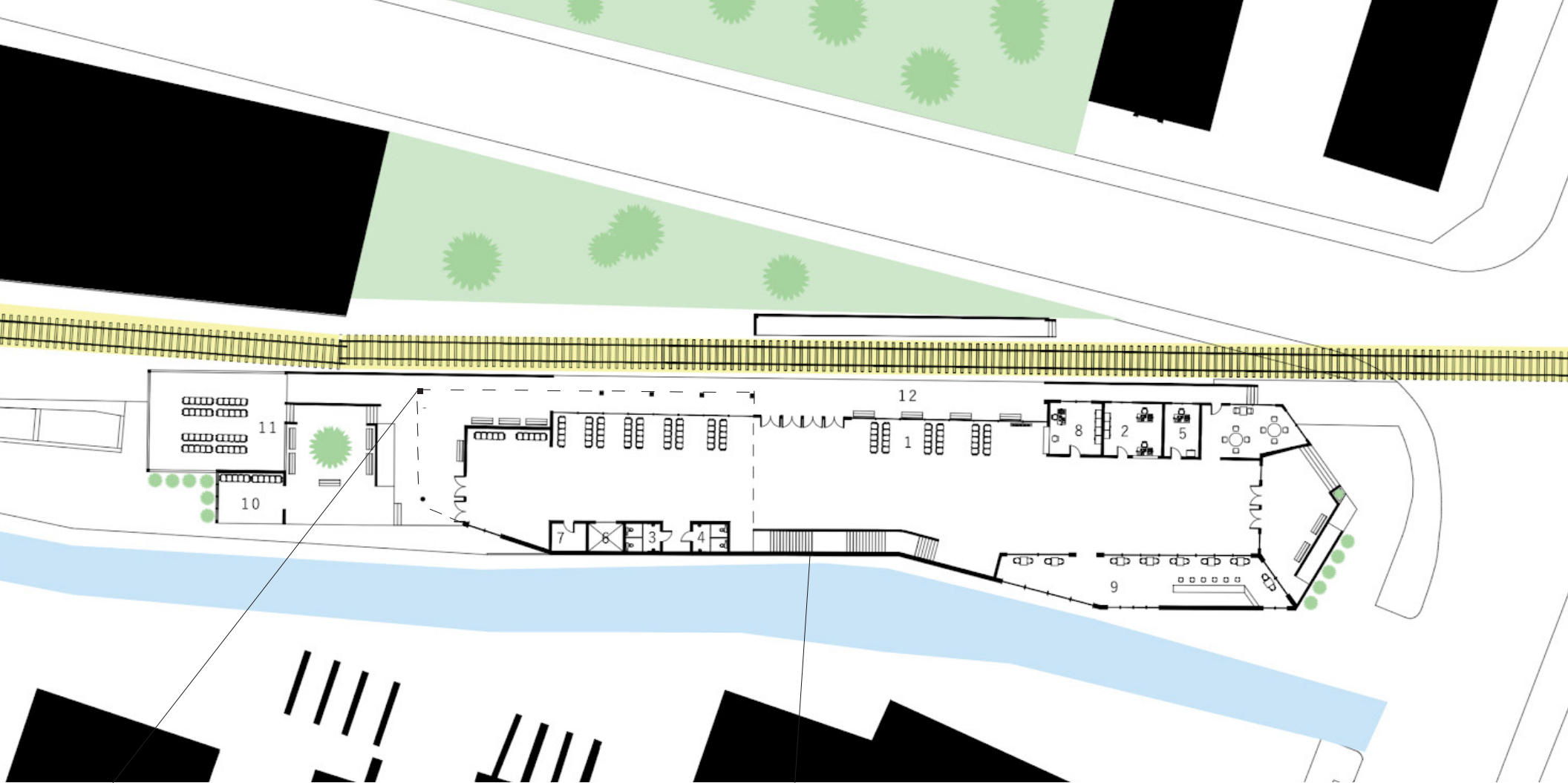
Freehold Light Rail Station

Coming and Going - Movement

To encapsulate a feeling of a journey that a train provides, my concept for the Freehold light rail station was to bring that same level of movement inside of the station itself. The hexagon skeleton holding the glass runs along the entirety of the main hall, in which every

public space of the building could be seen. By doing so, a shadow is cast on the main hall, back wall, and floor of the interior to bring a sense of repetition from one side to the other. I had chosen to make the skeleton that holds the glass in place to be comprised of hexagons since the shape provides a unique area. The two ends of a hexagon being slim represent the beginning (entering the station) and end (returning to the station) of a journey, one that most people living in the area will take. The larger part of the shape, being the middle, represents the station itself, in which everyone using the station will be gathered together, regardless of their ending destination.





FLOOR KEY

- | | |
|---------------------------|----------------------------|
| 1. Waiting Area | 11. Day Worker Area |
| 2. Ticket Office | 12. Covered Train Platform |
| 3. Men's Room | -SECOND FLOOR- |
| 4. Women's Room | 13. Reception/Waiting |
| 5. Ticket Master's Office | 14. Director's Office |
| 6. Elevator | 15. Office Area |
| 7. Elevator Machine Room | 16. Men's Bathroom |
| 8. Newspaper/Snack Stand | 17. Women's Bathroom |
| 9. Luncheonette | 18. Elevator |
| 10. Covered Bus Area | |

EAST SIDE
ELEVATION



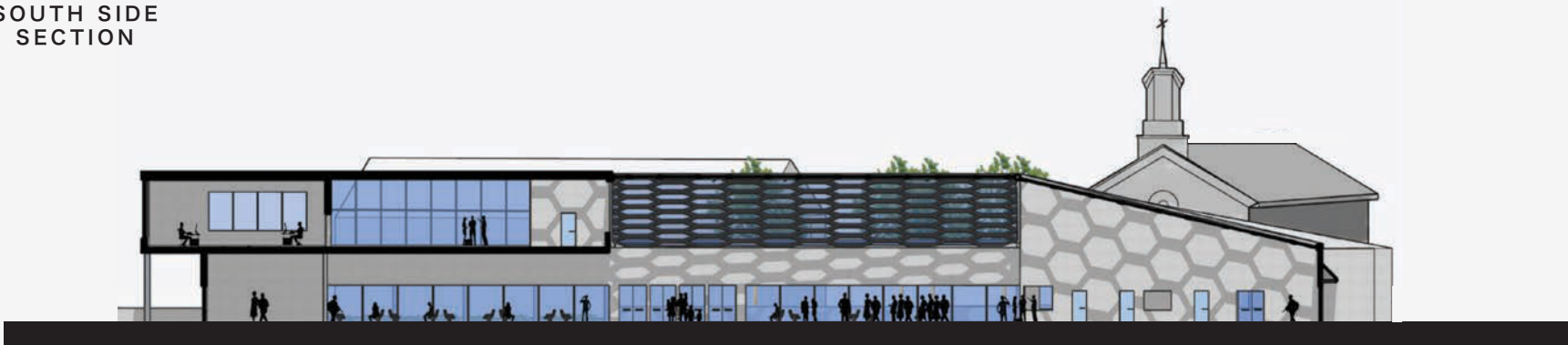
EAST SIDE
SECTION



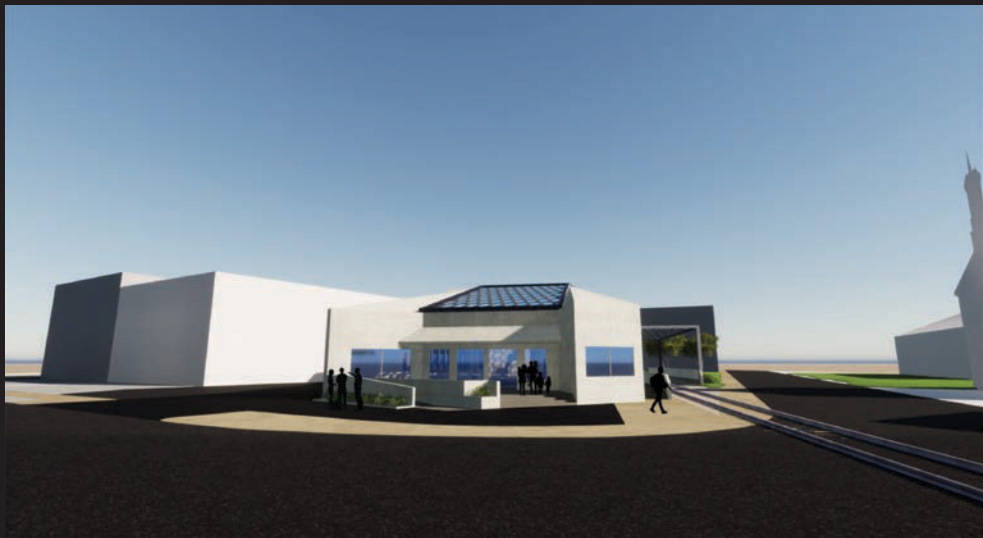
NORTH SIDE
ELEVATION



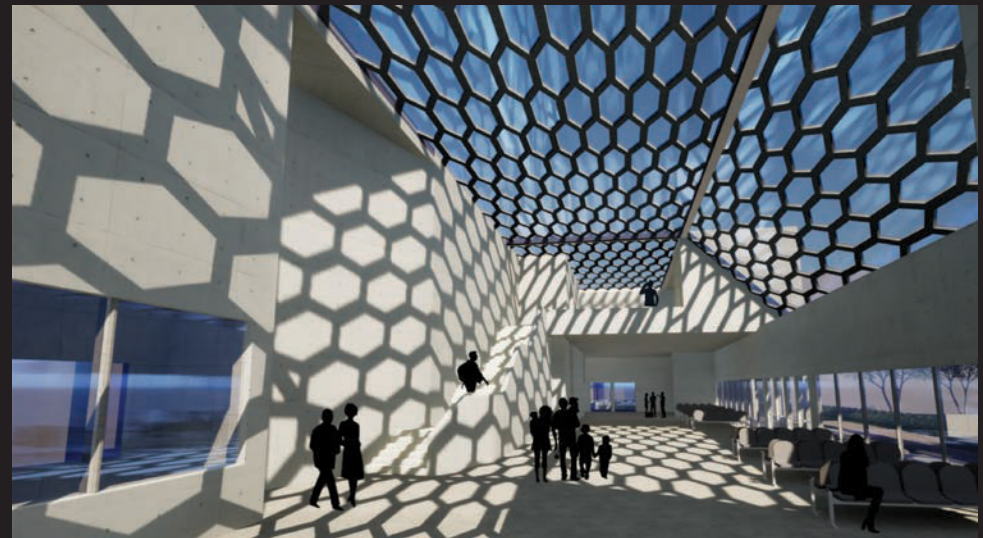
SOUTH SIDE
SECTION



INTERSECTION VIEW



FRONT ENTRANCE



SECOND FLOOR VIEW



COVERED PLATFORM



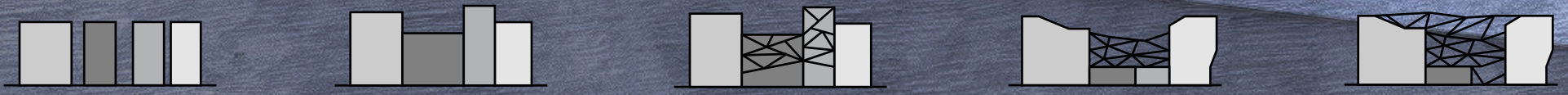
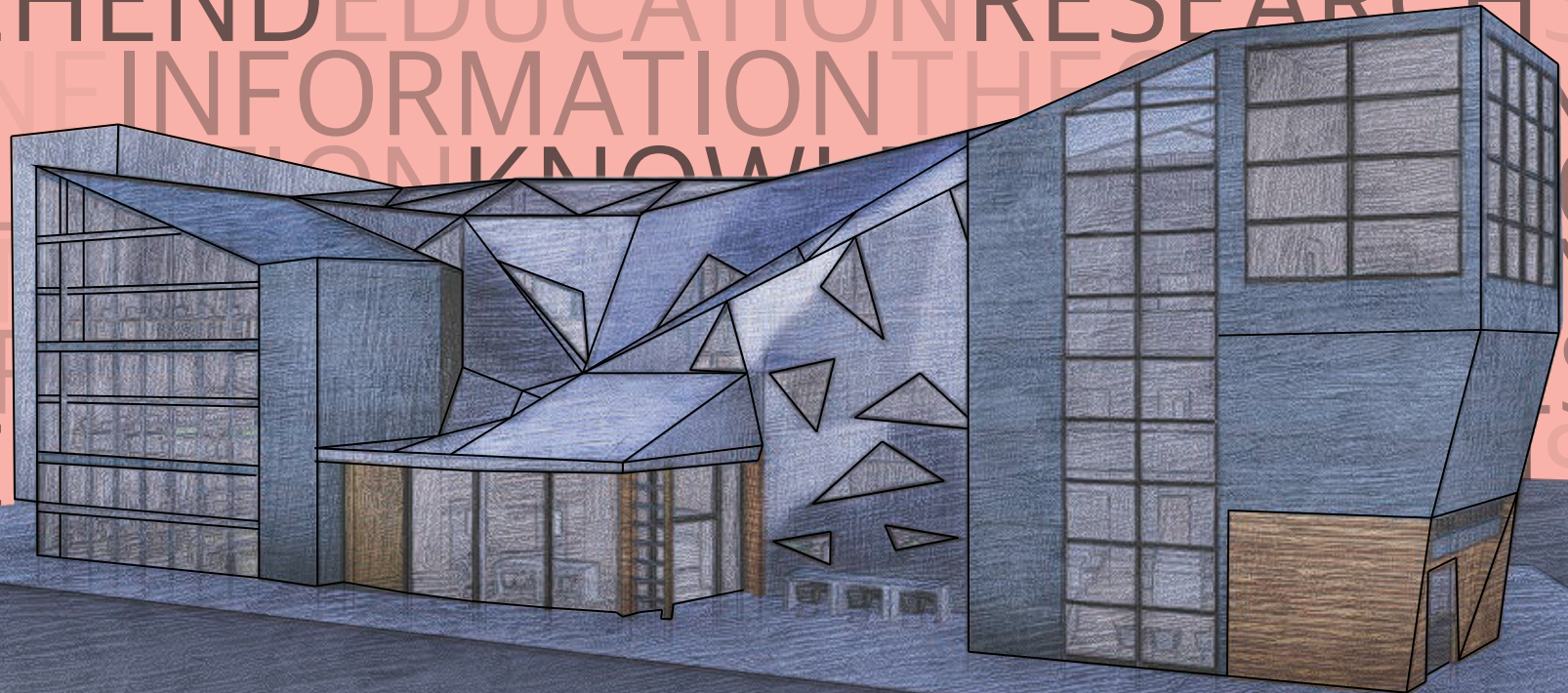
BACK ENTRANCE



PARKING LOT VIEW



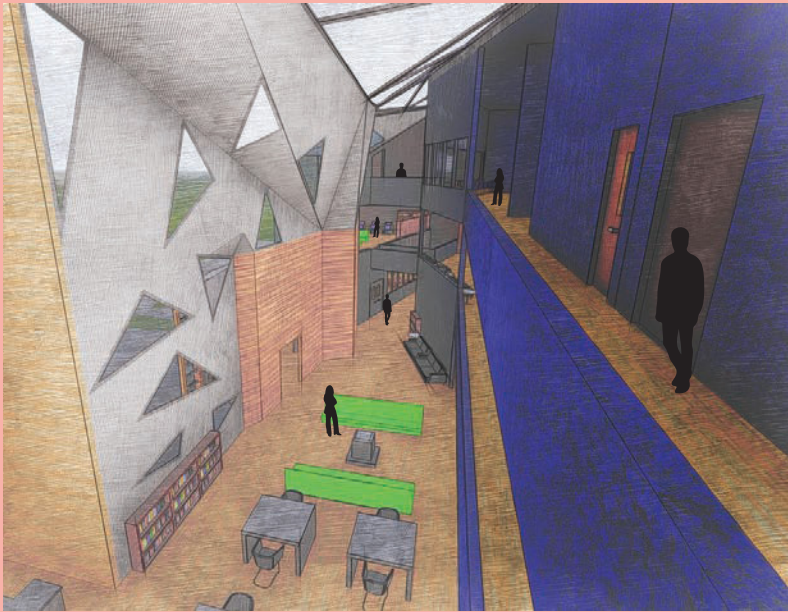
EMBRACE LEARNING STUDY PROCESSES
MPREHENDED EDUCATION RESEARCH
LYSIS VISUALIZER RELAX COGNITION UNDERSTANDING
LIZER RELAX COGNITION UNDERSTANDING
REALIZATION KNOWLEDGE ADVANCED DIS
EMBRACE LEARNING STUDY PROCESSES
MPREHENDED EDUCATION RESEARCH
RMINE INFORMATION THE
REAL
ERM
EMBR
MPRE



Thomas T. Fortune Public Library

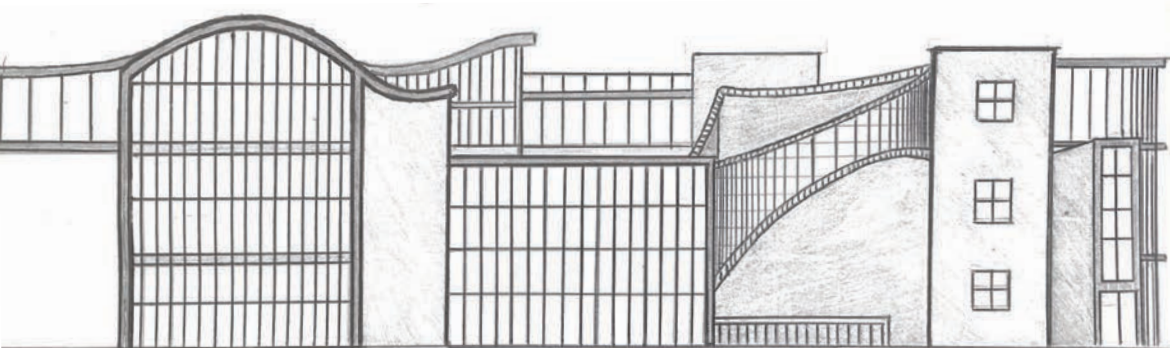
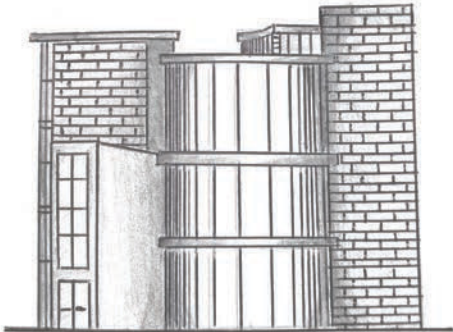
Creating an environment to make learning simple.

The main function of a library is to provide resources to people of any age that will assist them in learning or discovering something new. However, the ability to learn varies from person to person- some people excel at the process and in certain fields while some struggle in others. In order to capture this idea, the concept of the new Thomas T. Fortune Library was to create a space easily traversable, where everything is accessible and in sight wherever you are. The outside holds the opposite trait, where part of the building appears as if it is flowing down to the people who enter it in an intimidating fashion. With the outside being sporadic and the inside being unified, I wanted to allude to the idea that no matter how difficult learning may be, using the resources in a library could make the process easier and more enjoyable. The mandatory connection to a Red Bank public school is on the second floor of the library, where the young adult's area is located. The public entrance is at the corner of the intersection, as well as through the library's cafe along the front of the building.

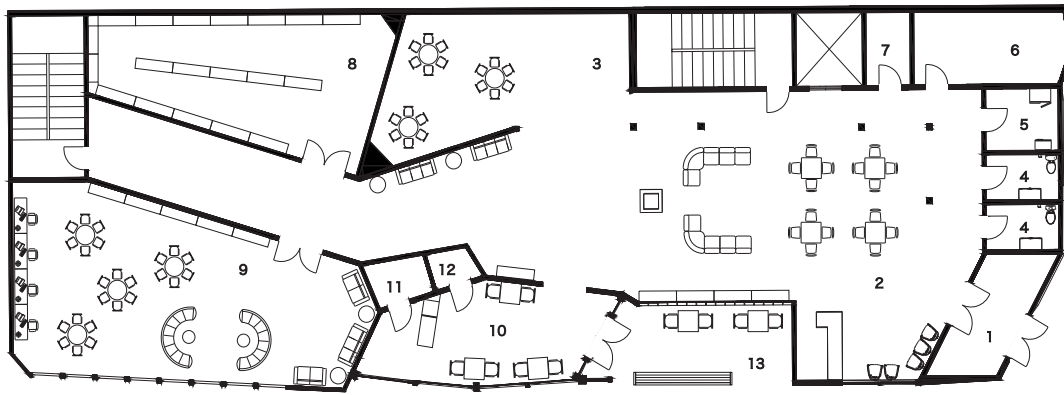


Concept Sketches

I had originally approached the same concept in a different way. By creating several structures with different materials including concrete, wood, and brick, the library would appear divided and scattered on the exterior. By doing this, the goal of these drawings was to make the library look like a town in itself, where nothing on the outside seems to have a relationship, unlike the inside of the building.

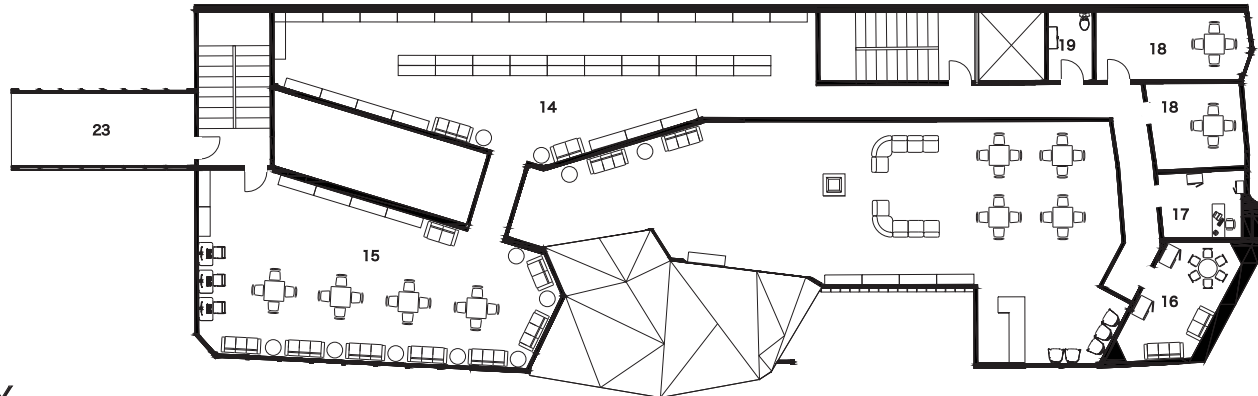


Model showing the south side of the building, where the roof structure flows downward and covers the cafe. There are triangular gaps in the roof and wall to brighten the main seating area of the library.



FLOOR 1

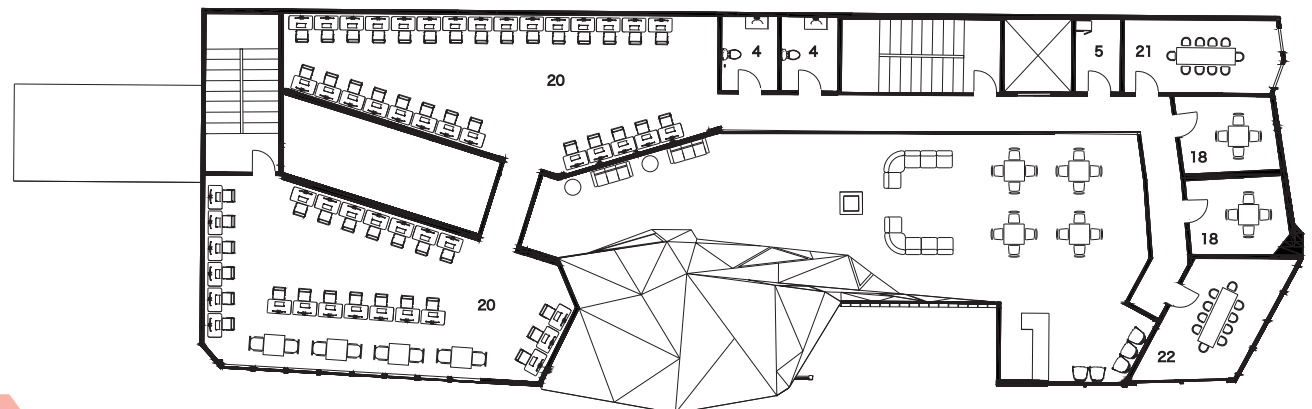
- 13. Outdoor Seating
- 14. Adult Bookstacks
- 15. Adult Reading Room
- 16. Staff Break Room
- 17. Librarian's Office
- 18. Group Study Room(s)
- 19. Staff Bathroom
- 20. Media Room(s)
- 21. Conference Room
- 22. Staff Meeting Room
- 23. Second Floor School Connection
- X. Elevator



FLOOR 2

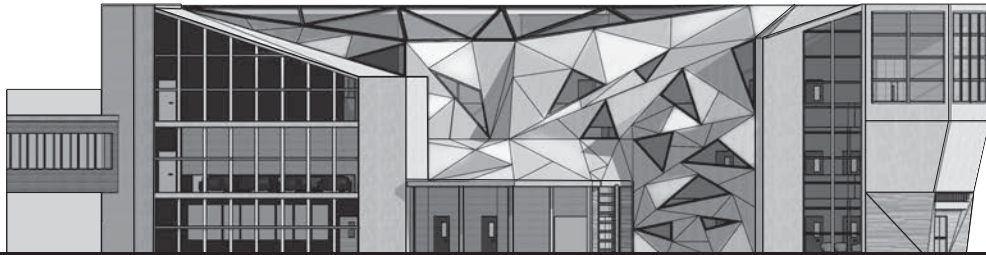
FLOOR KEY

- 1. Vestibule
- 2. General Reading Room
- 3. Gallery/Extra Seating
- 4. Restroom(s)
- 5. Janitor's Closet(s)
- 6. General Storage
- 7. Mechanical Room
- 8. Children's Bookstacks
- 9. Children's Reading Room
- 10. Café
- 11. Café Storage
- 12. Café Waste Room

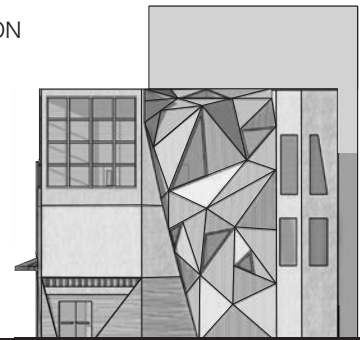


FLOOR 3

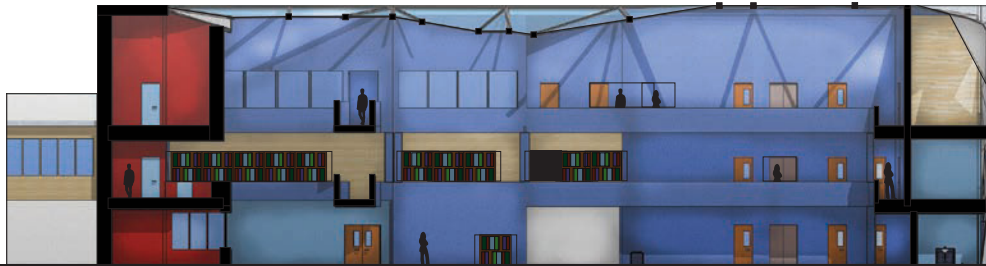
SOUTH SIDE ELEVATION



EAST SIDE ELEVATION



SOUTH SIDE SECTION



EAST SIDE SECTION



STREET VIEW



MEDIA ROOM



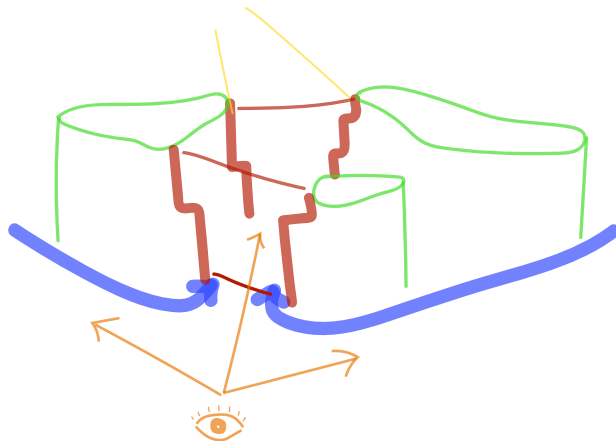
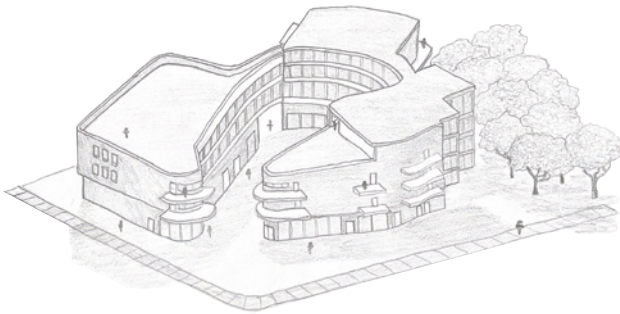
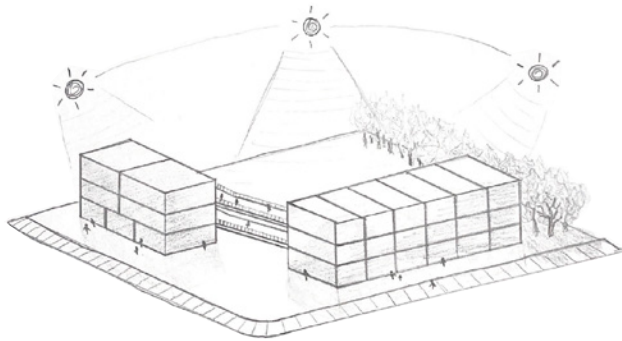
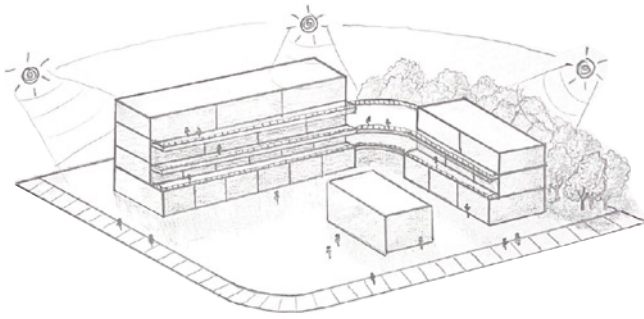
ADULT BOOK/READING ROOM

SHREWSBURY MAKERHOOD

Partner - Jared Britton

Our main objective was to provide the opportunity for small entrepreneurs to flourish in Red Bank by celebrating the area's different ethnic groups to attract people to the Shrewsbury neighborhood.





EQUAL OPPORTUNITY

Southwest Red Bank is primarily composed of people of Latin American descent, and they help the area prosper with their family owned businesses spread out along Shrewsbury Ave. Over the years, this area of Red Bank have been neglected and overshadowed by the wealthier parts of the township. With our makerhood project, our goal was to express the importance of Latin American culture to the town of Red Bank. The building creates a shared space between multiple entrepreneurs while providing a central space where people can gather. Here, the diversity of Red Bank can be experienced through baked goods from around the world, specifically from several Latin American cultures.

CONCEPT SKETCHES

We wanted an open sight line from the busy intersection into the seating area that enables people to view each of the maker spaces on the ground level. Pushing each floor back as you ascend allows for a more private residential space on the higher levels. Along with this, we decided to keep Coffee Corral on our site to avoid displacement and create a synergy with our bakery maker spaces.

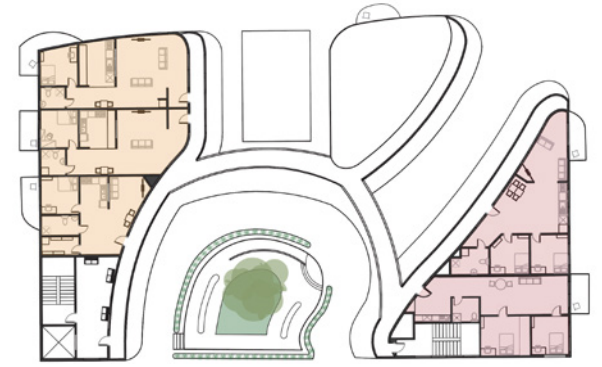
DESIGN DESCRIPTION

The layered form of each building is set back by 6 feet for each floor to keep the central community area as open as possible. The rounding of each building is meant to draw people through the street-like space, under the elevated bridges, and into the courtyard, where the morning and afternoon light will shine into the gathering area. As you approach the building from Drs. James Parker Boulevard, the slight curving of the walls guides you into the passageway between the corner building and the east wing. Here, you can experience the makers that are on both sides of the path, as you make your way to the central plaza. The curves of the building widen, creating a large open space where people can gather, relax, and pause their hectic day.

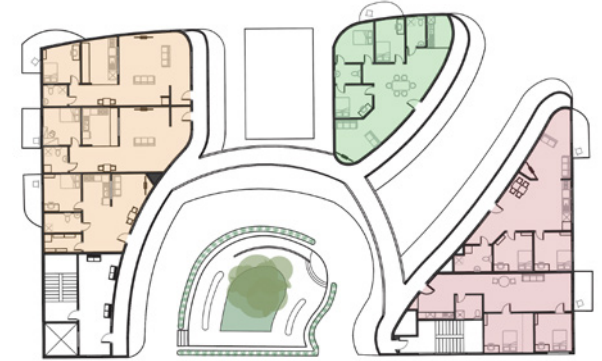
SITE MAP & FLOOR PLANS



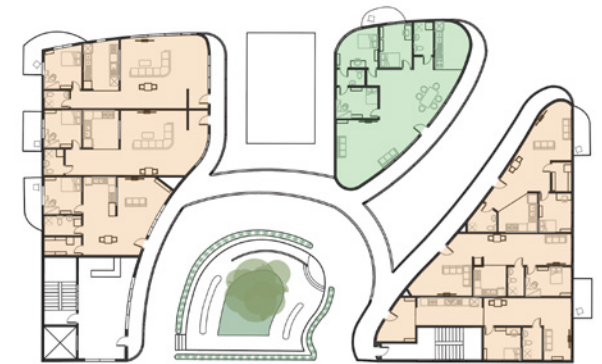
FLOOR 4



FLOOR 3



FLOOR 2



FLOOR PLAN LEGEND

- | | |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|
| ■ Makerspaces | ■ Single Bed Apartments |
| 1 - Crafts Store (930 sf.) | ■ Double Bed Apartments |
| 2 - French Bakery (960 sf.) | ■ Triple Bed Apartments |
| 3 - Argentinian and
Uruguayan Bakery (1,200 sf.) | C Coffee Corral |
| 4 - Bike Shop (890 sf.) | |
| 5 - Mexican and
Salvadoran Bakery (840 sf.) | |
| 6 - Italian Bakery (750 sf.) | |
| 7 - T-Shirt Print Shop (815 sf.) | |
| 8 - Ceramic Shop (790 sf.) | |

