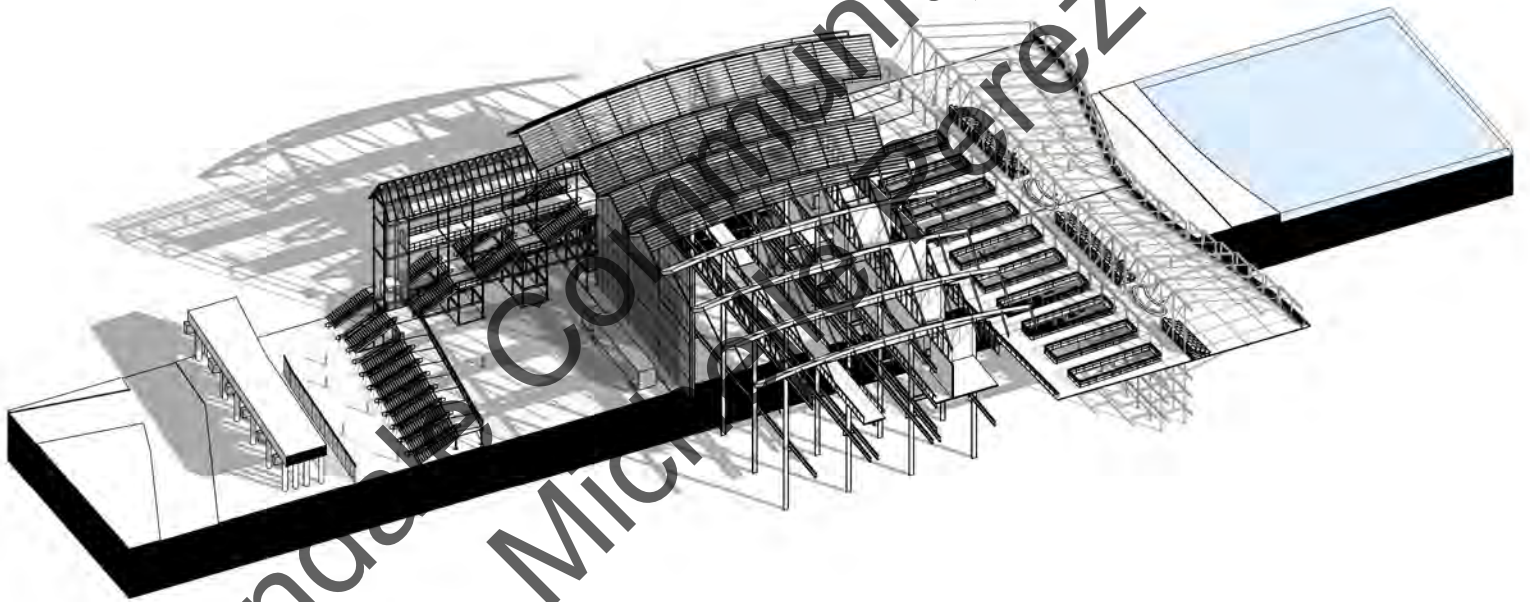


# GLENDALE COMMUNITY COLLEGE

MICHELLE PEREZ



ARCHITECTURE PORTFOLIO

## Skills:



Revit



AutoCAD



TwinMotion



SketchUp



Sketching



PLATFORM 2024



MISBEHAVE 2024



Widom Scholarship  
2024 Press Release

## Contents:

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Intertwine

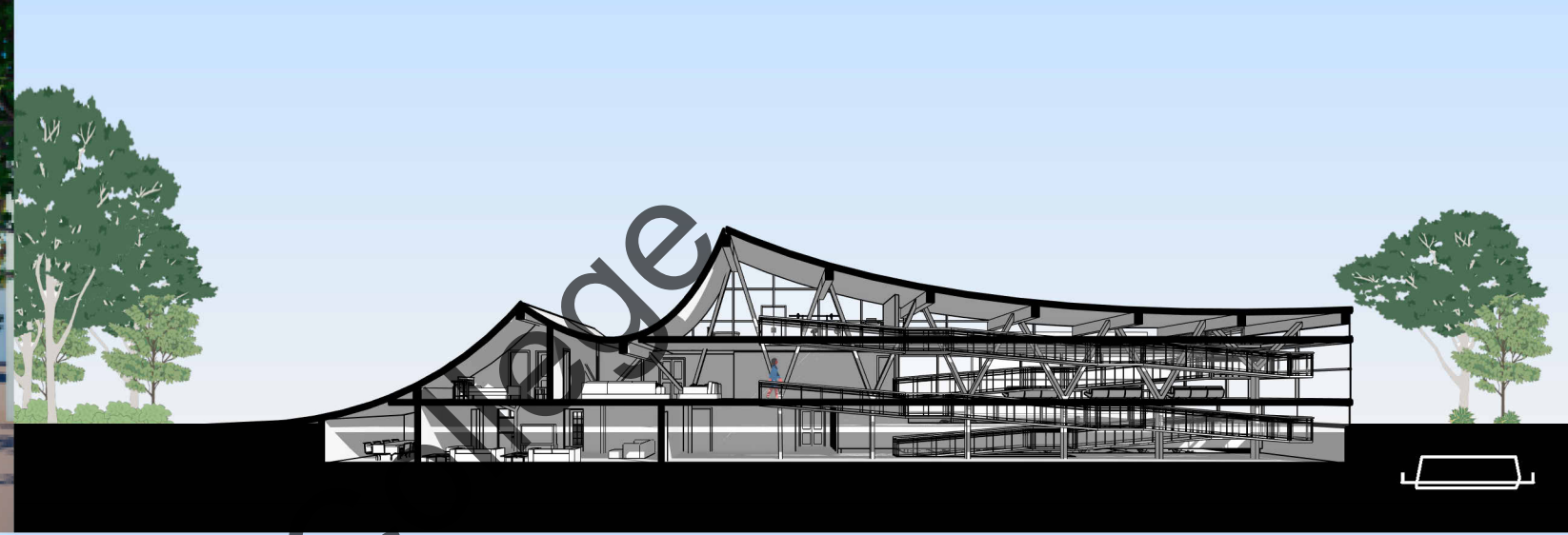
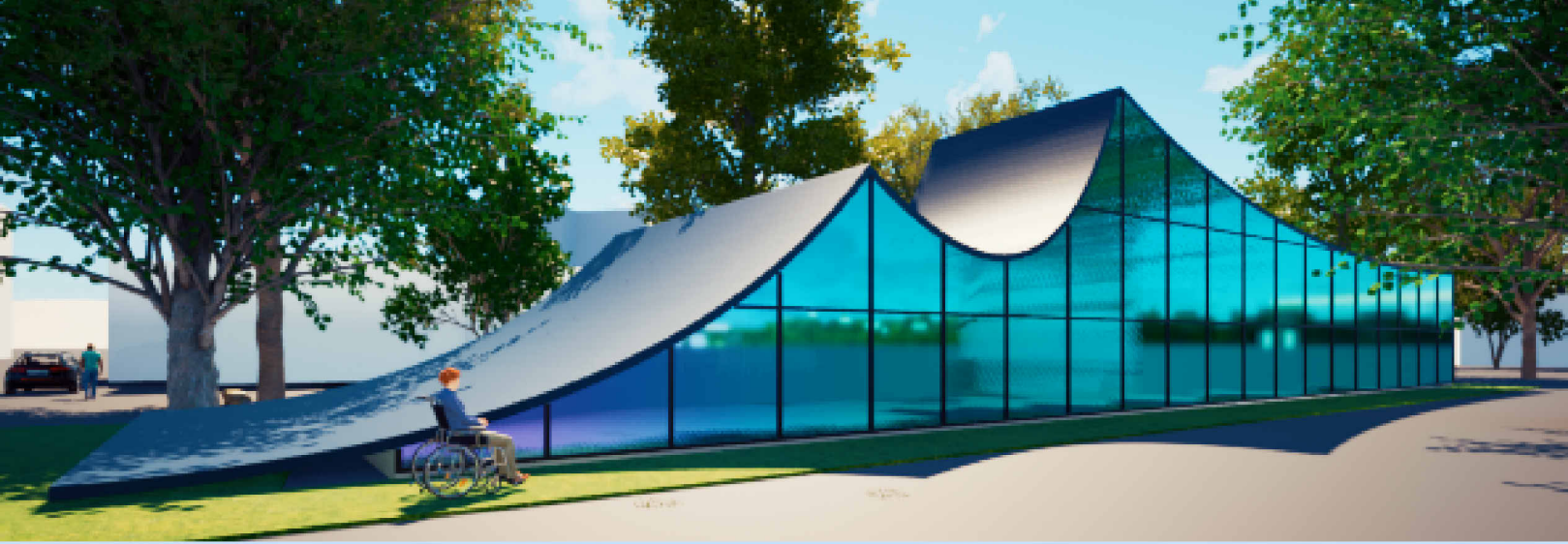
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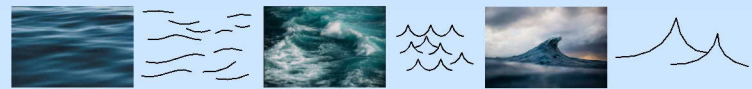
## Achievements:

- Dec. 2023 - Entered Los Angeles Affordable Housing Challenge by Buildner
- Feb. 2024 - Represented GCC at Woodbury's PLATFORM 2024 hosted at Gensler LA
- April 2024 - Winner of the Chester and Diana Widom Scholarship 2024
- May 2024 - Represented GCC architecture department at GCC's open house
- June 2024 - Entered the Steel Competition hosted by ACSA
- June 2024 - Receiving GCC's Architectural Drafting and Design Certificate
- June 2024 - Participant in Los Angeles Design Weekend - MISBEHAVE
- July 2024 - Candidate for A.I.A. Pasadena Foothill Chapter 2024 Jean Roth Driskel Scholarship

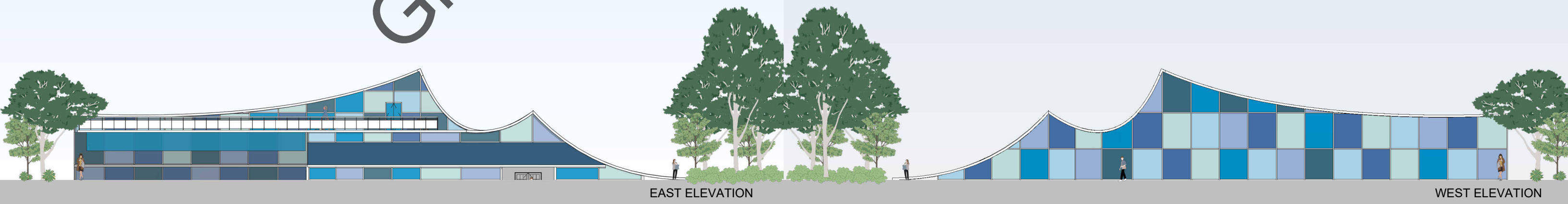
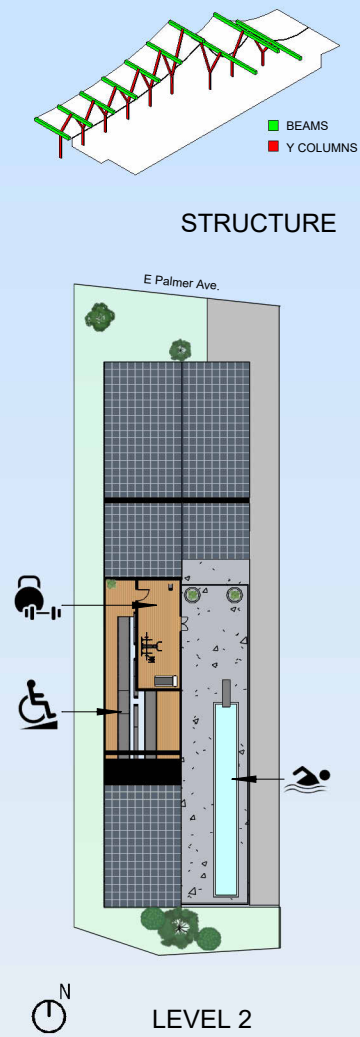
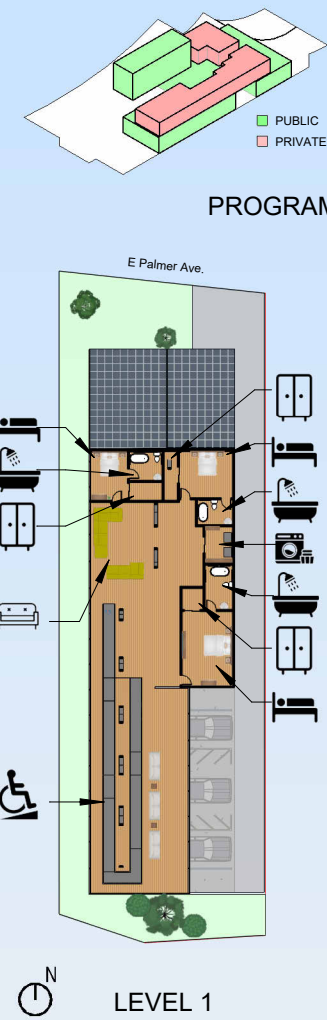
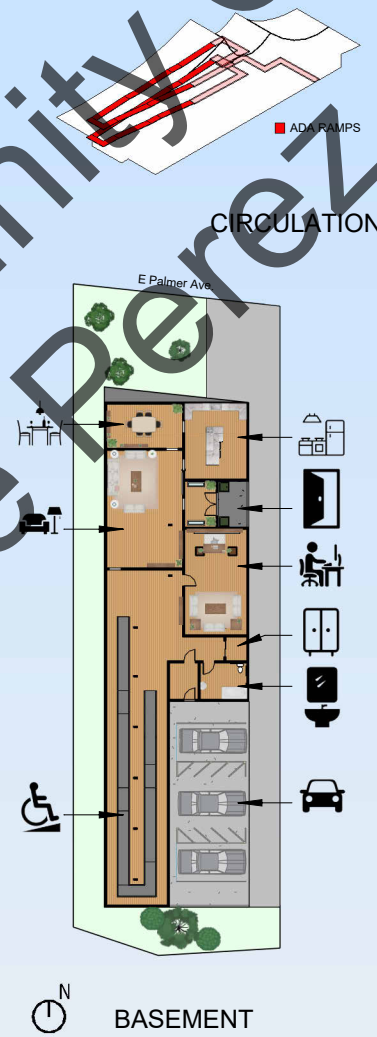
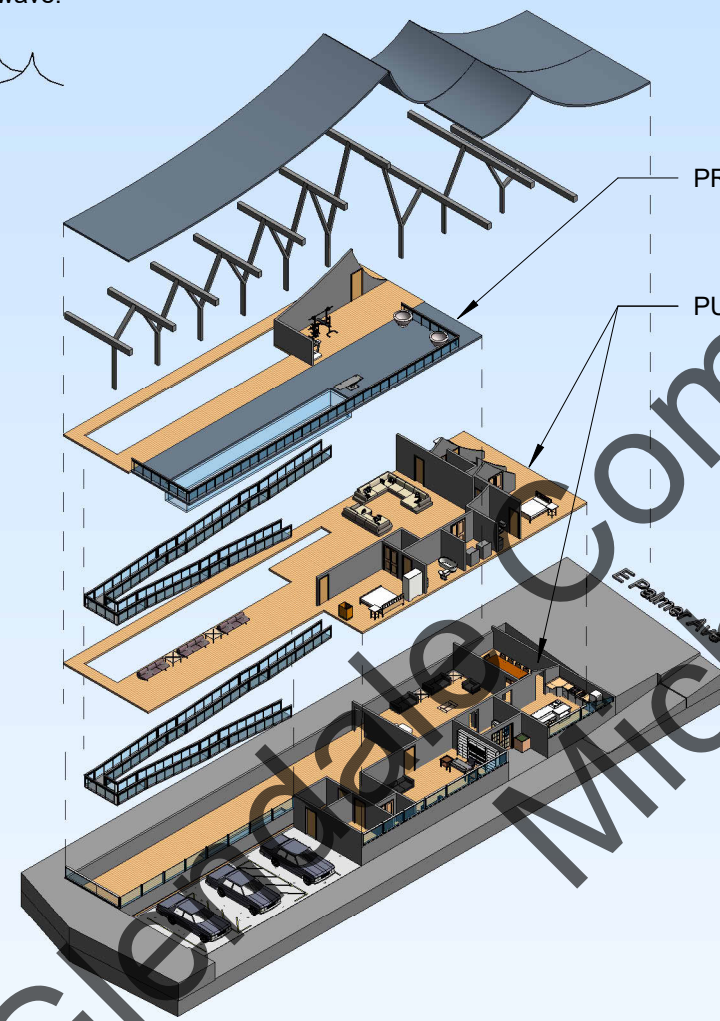


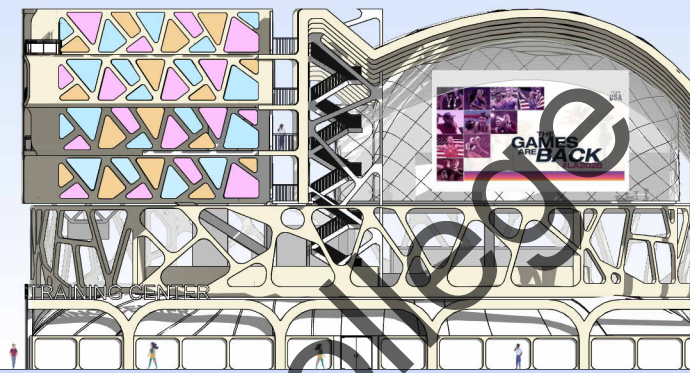
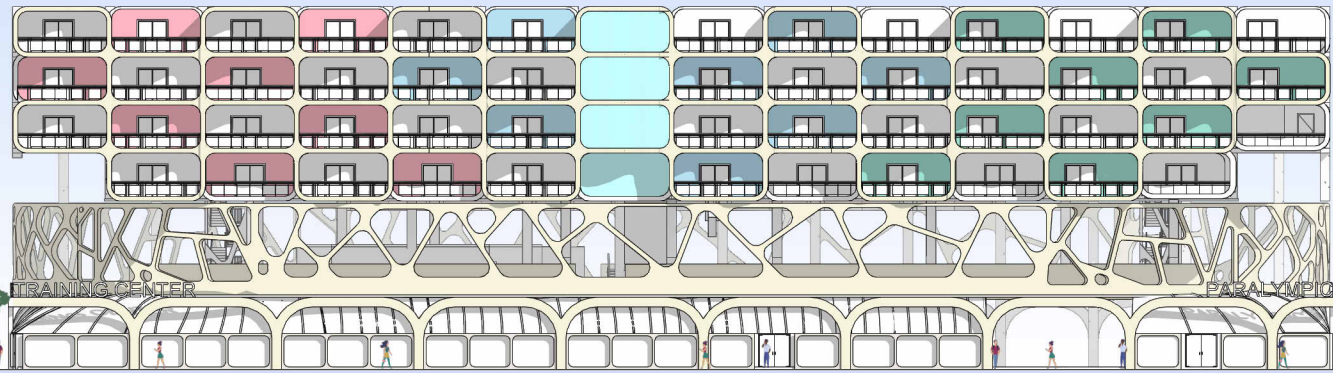
# Rogue Wave

CONCEPT: A swimmer's record depends on the flow of the wave.




Ellie Cole an Australian born swimmer began her training as part of her rehabilitation, when her right leg was amputated at the age of two due to a neurosarcoma. She began Competitive swimming in 2003 when her progress exceeded her instructors expectations. She went on to win four gold medals and two bronze medals in the 2012 London Paralympics. As a tribute to her, the house stands as a representation of her adversity. The balance between the cold harsh waves and her warm resilience as she faced her odds, stands as a token of how a swimmer's record depends on the flow of the wave.



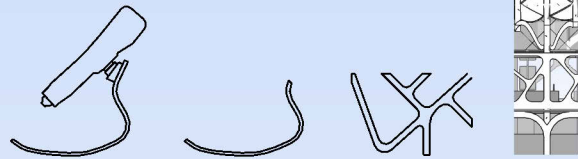


# AMALGAMATION

Located at 520 Pico Blvd, Los Angeles, CA, the purpose is to create a paralympic training facility. Inspired by human movement and biomechanics, the facility is designed for para-athletes. With Los Angeles hosting the Paralympic Games in 2028, the facility is located within a 3 mile radius and can serve as a space to prepare.

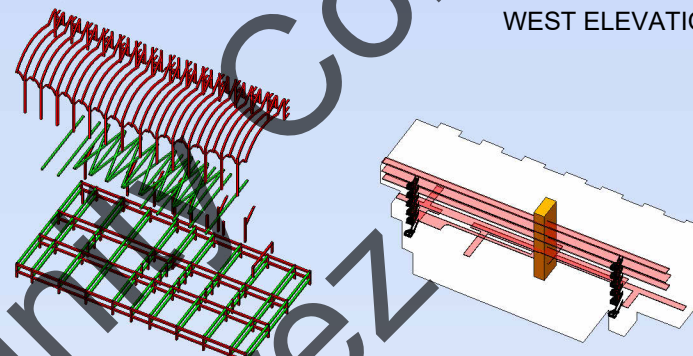
2028 Paralympic Downtown Sports Park 

CONCEPT: The action of uniting or merging two or more things. Fusing flesh and engineering.



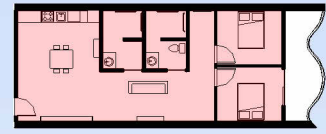
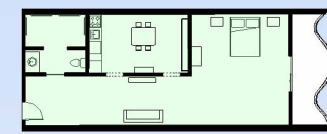
NORTH ELEVATION

WEST ELEVATION



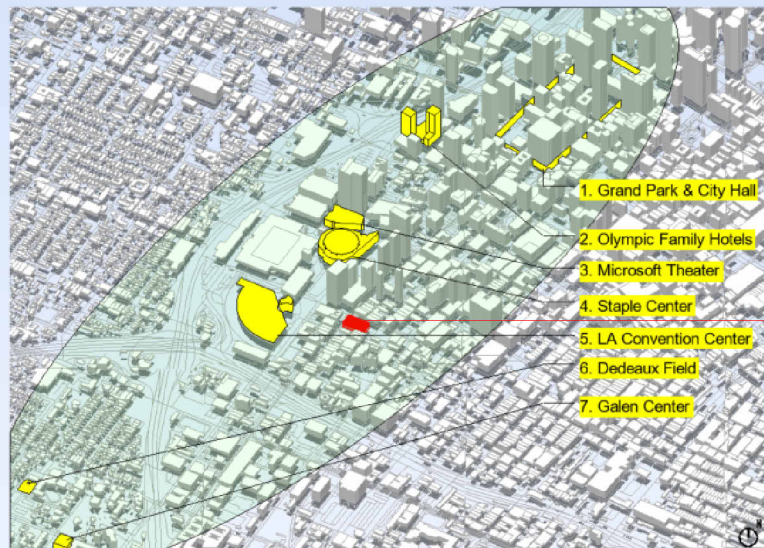
STRUCTURE

CIRCULATION



ONE BED UNIT

TWO BED UNIT

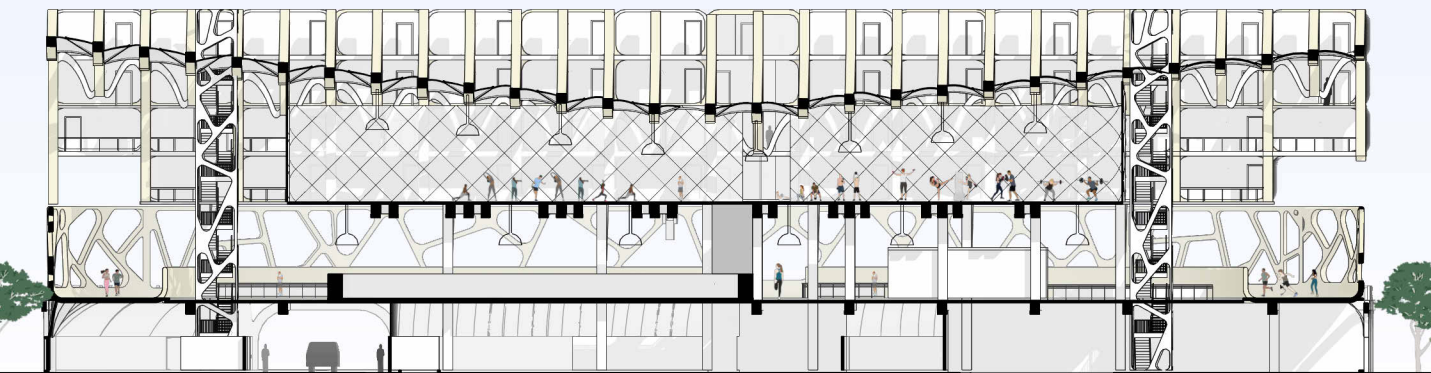
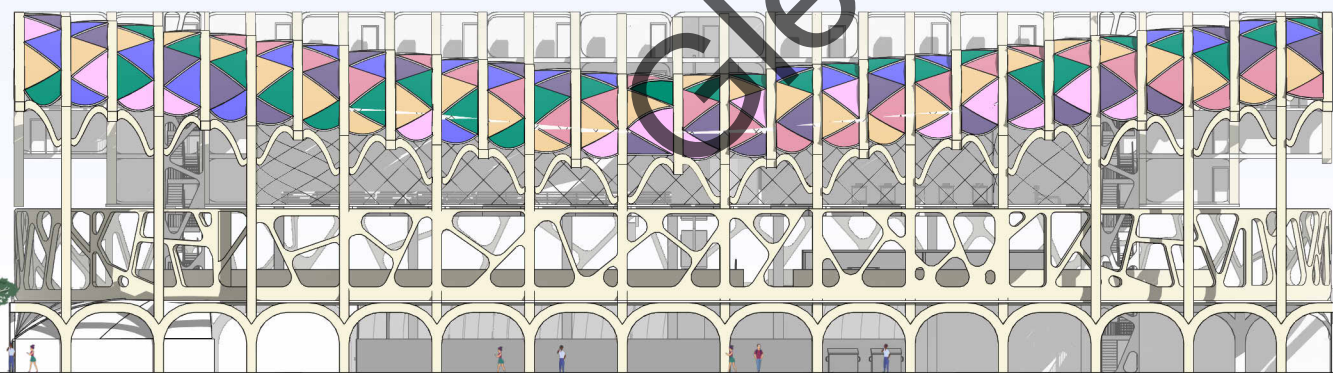
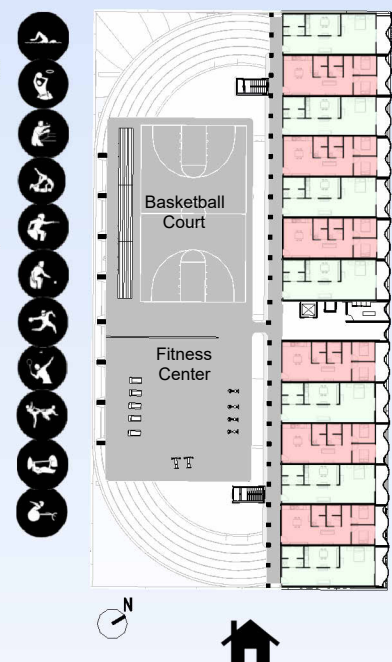
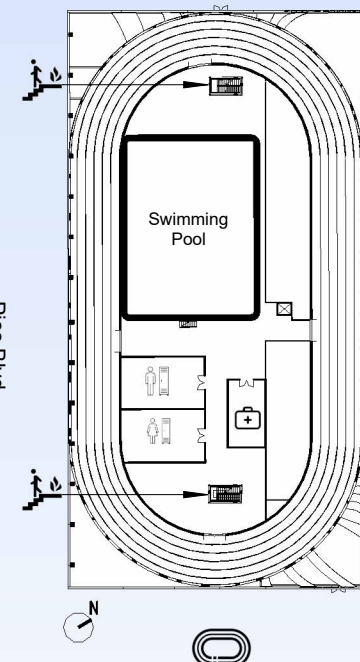
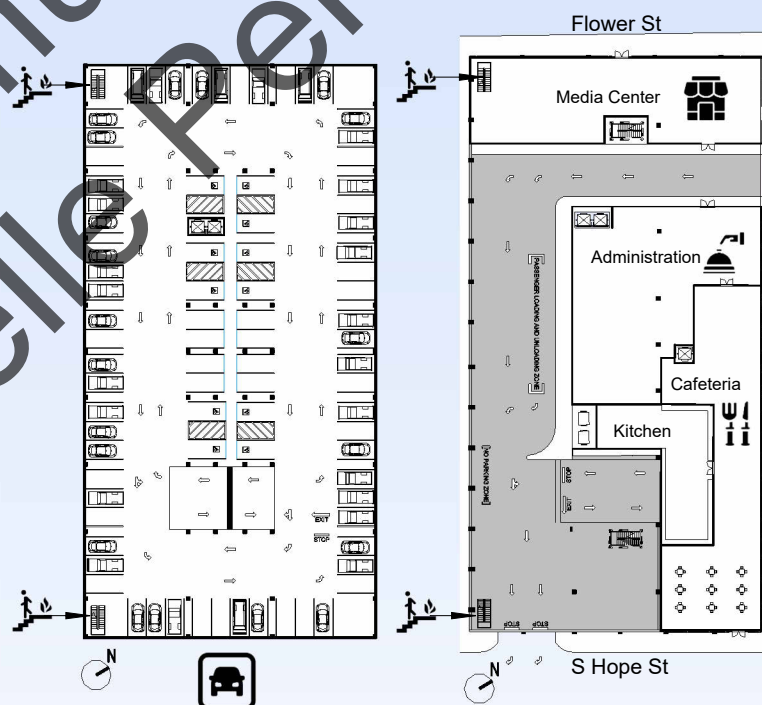


Living Units

Sports Facility

Lobby

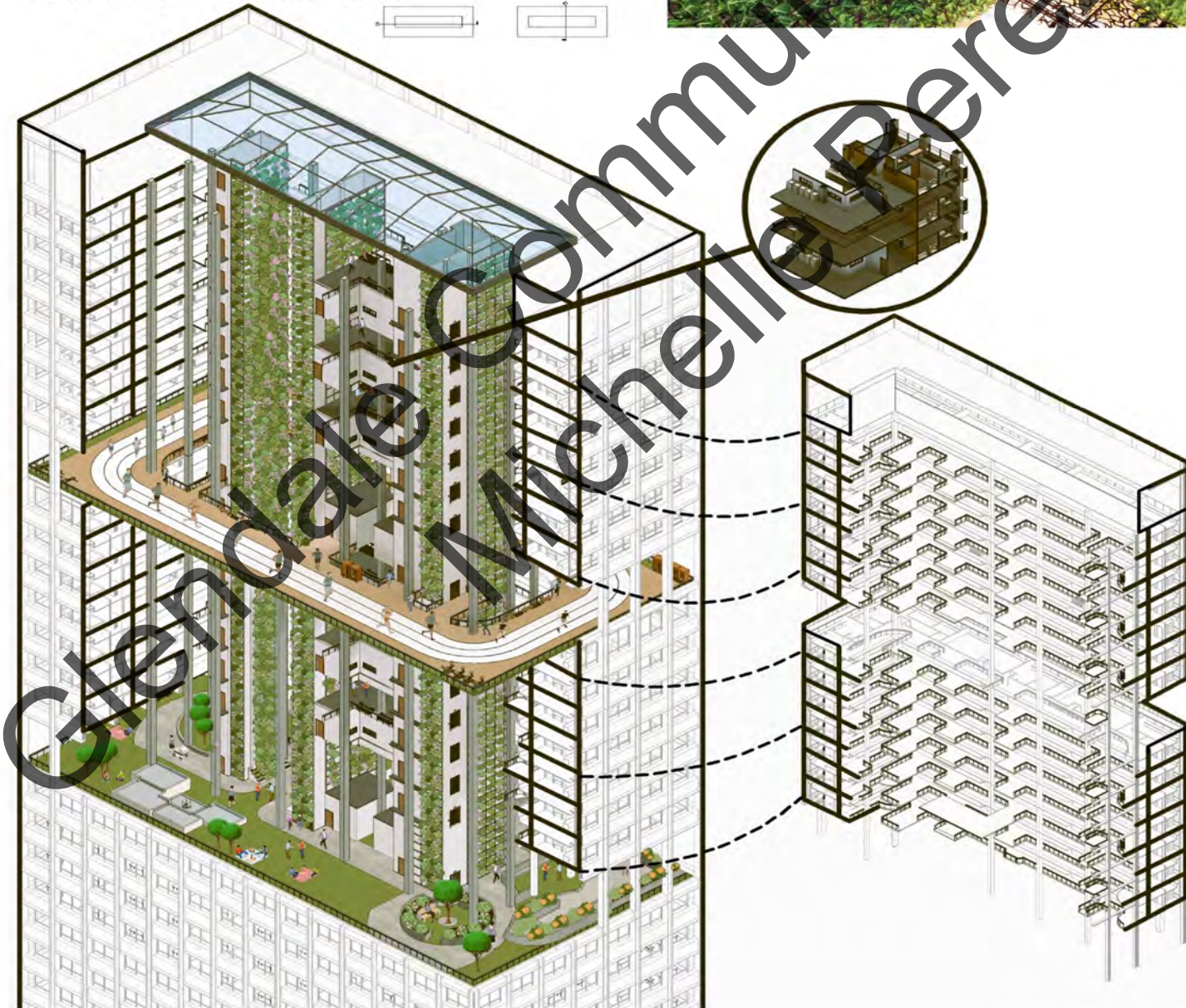
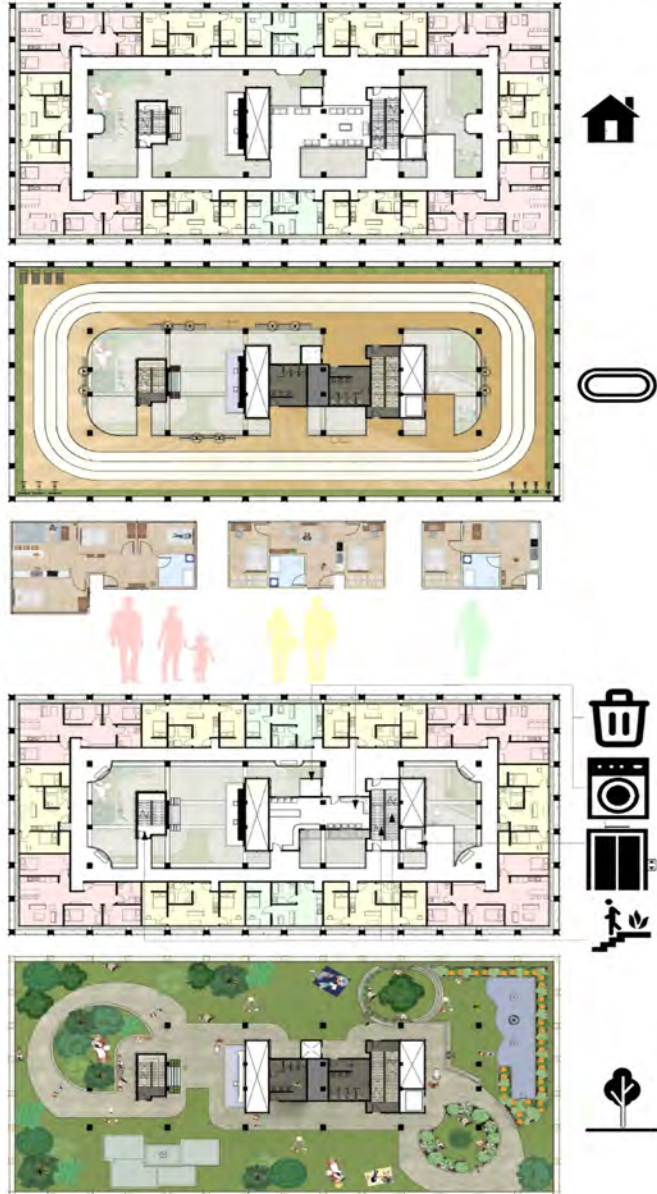
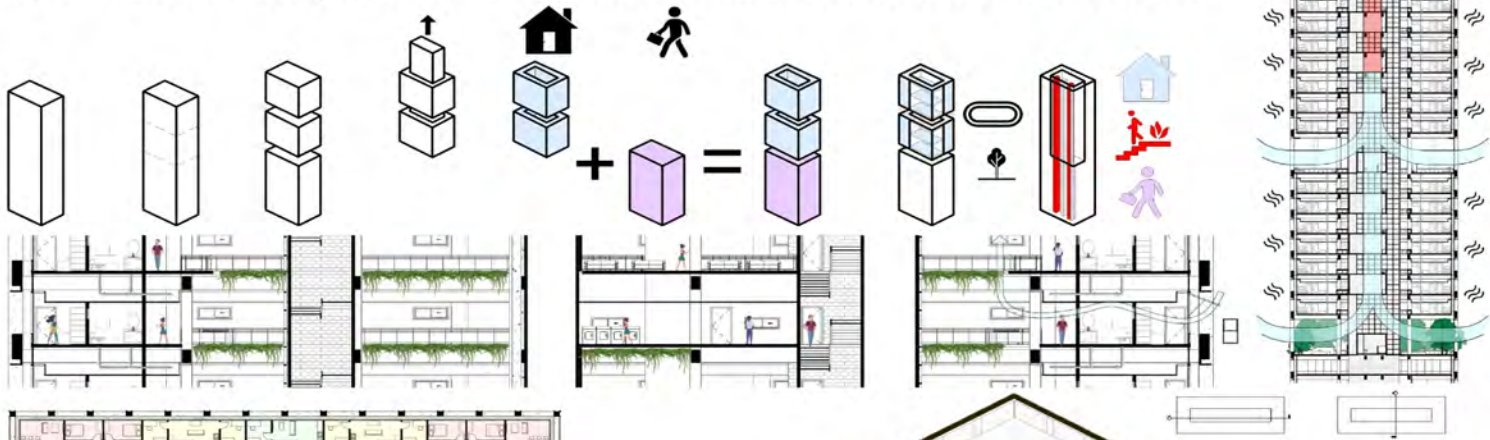
- Cycling
- Housing
- Wheelchair Basketball
- Boccia
- Wheelchair Fencing
- Swimming
- Taekwondo
- Athletics Marathon
- Power Lifting
- Wheelchair Rugby
- Table Tennis
- Goalball
- Judo
- Badminton



SOUTH ELEVATION

# VERTICAL OASIS

The City of Los Angeles is juggling with vacant office space due to Covid-19 and a 31% veteran homeless population. Vertical Oasis is a **hybrid courtyard living community + office building**, that provides permanent rehabilitation housing for qualified homeless veterans. It's a healing center equipped with a physical activity area, a vertical and horizontal garden, and a total of 168 units that house 364 people. With the help of the Adapt and Reuse ordinances, the city can repurpose vacant offices into permanent living units. It is a major tenant improvement project requiring core drilling on existing floor, adding and redirecting plumbing lines, utility lines, central HVAC system, garbage and trash chute system, and modifying floors and facades to achieve natural air ventilation.



Vertical Garden View From Running Track



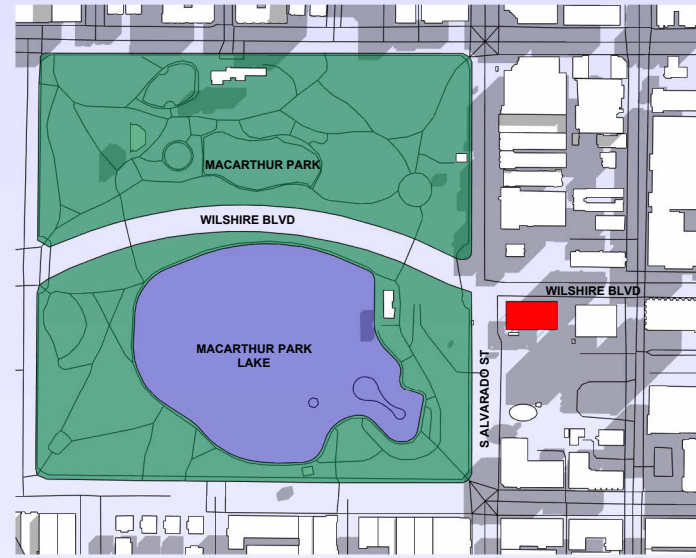
Corridor View to Vertical Garden



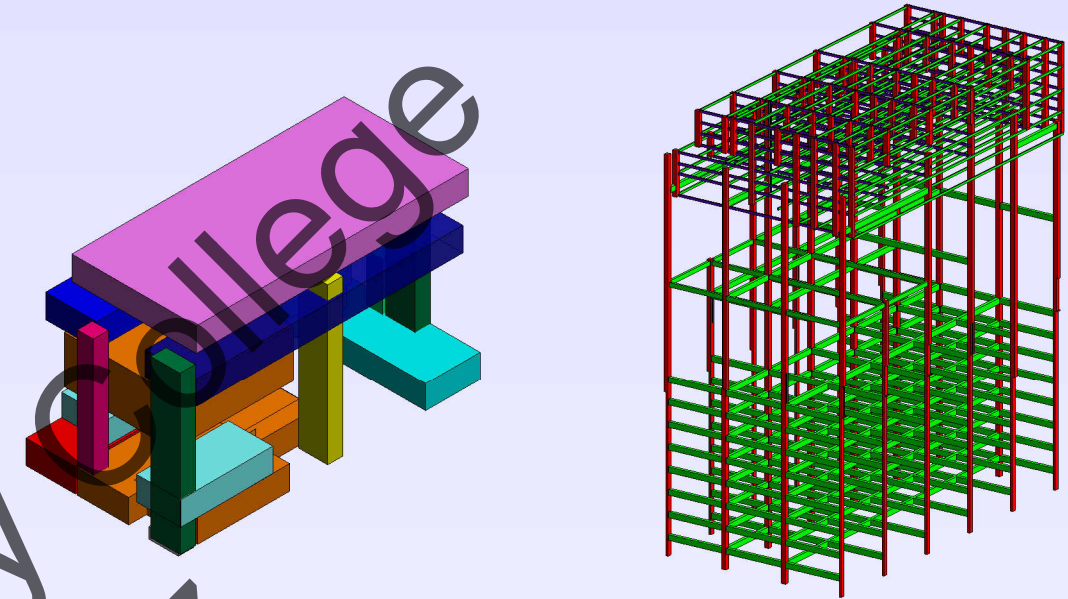
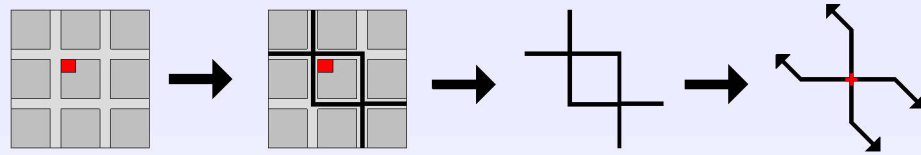
Horizontal Healing Garden

# INTERTWINE

Located to the east of MacArthur Park, Intertwine acts as a link connecting the underground metro station to the streets of LA. It proposes a commercial mix-use building featuring a casestudy of Corringham Apartments by architect Kenneth Frampton, as well as a child-care center and community center.



Concept: To unite or connect the aboveground with the underground station.

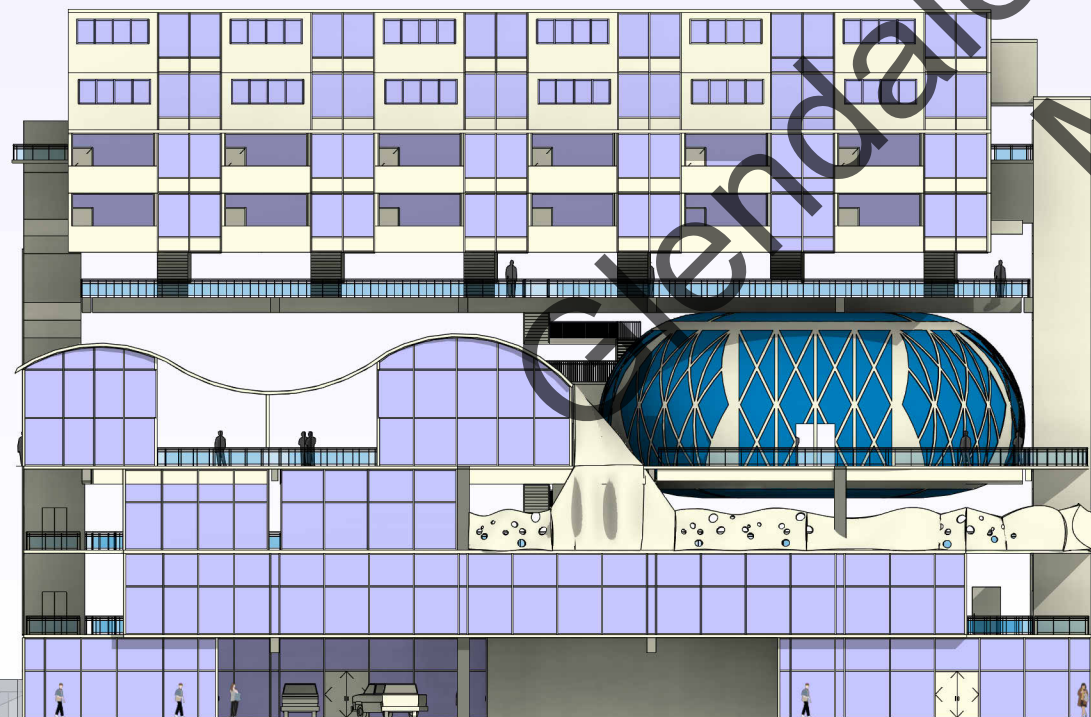


## PROGRAM

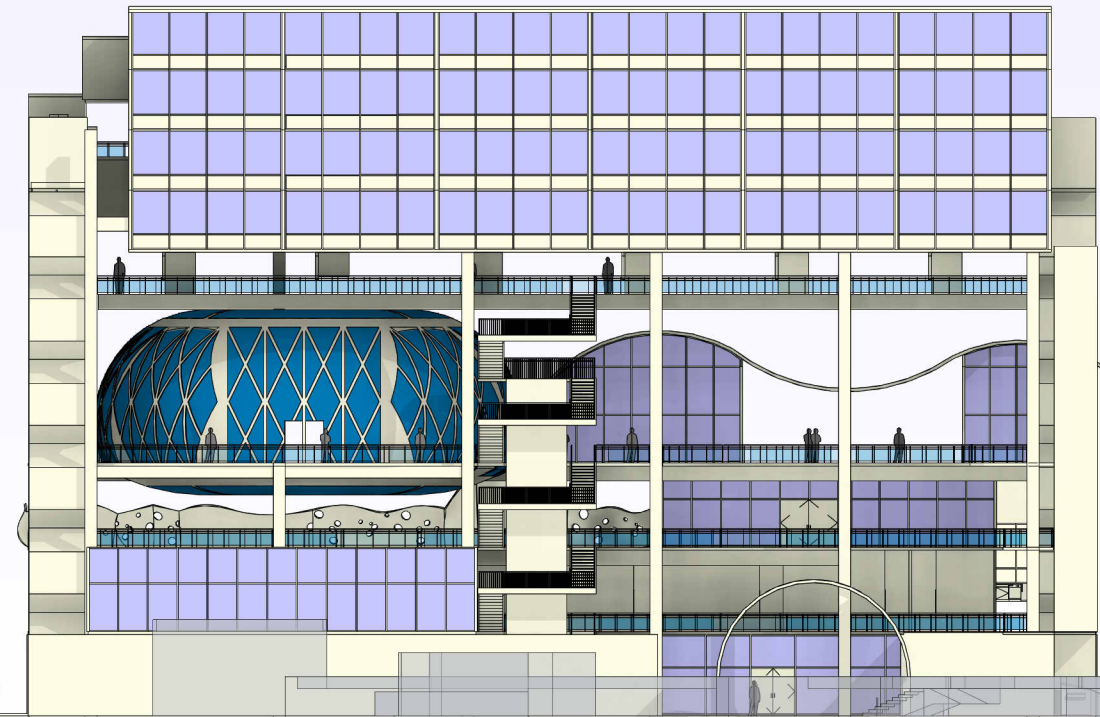
- ONE BED UNITS
- TWO BED UNITS
- COMMUNITY CENTER
- CHILD CARE
- RETAIL
- APARTMENT ONLY ELEVATOR
- FIRE ESCAPE STAIRCASE
- STAIRS

## STRUCTURE

- COLUMNS
- BEAMS

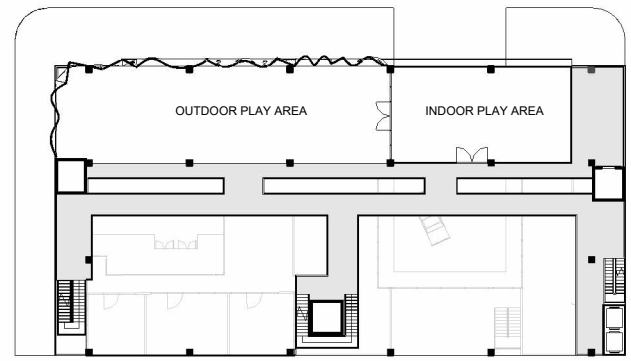


North Elevation



South Elevation

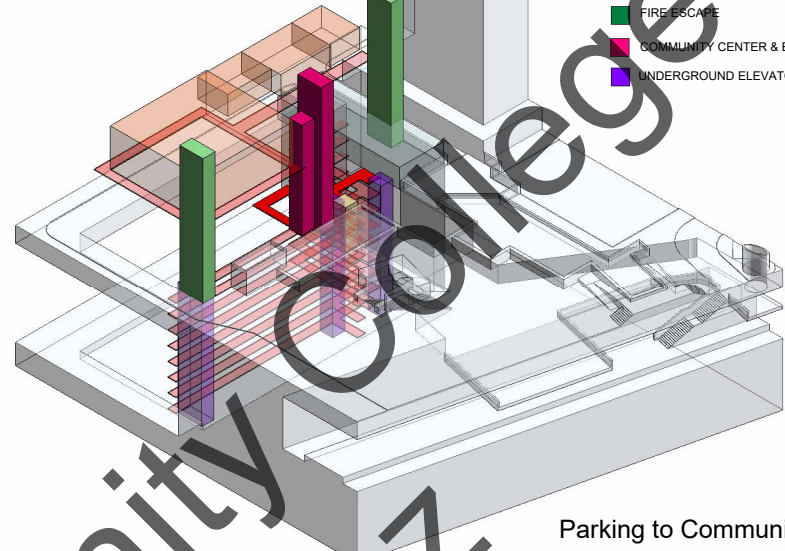
- FIRE ESCAPE
- CHILD CARE ELEVATOR ONLY
- UNDERGROUND ELEVATOR & STAIRS



Child Care - Level 3

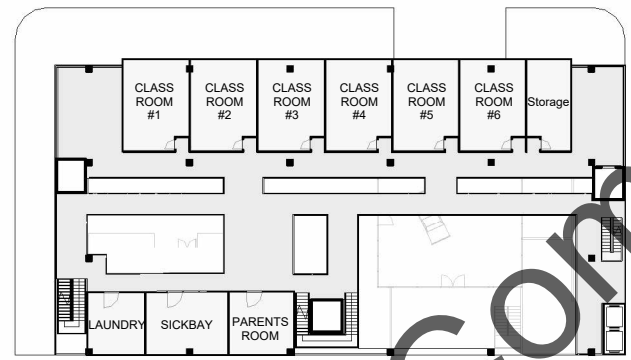
Parking to Child Care

- FIRE ESCAPE
- COMMUNITY CENTER & ELEVATOR
- UNDERGROUND ELEVATOR & STAIRS



Parking to Community Center

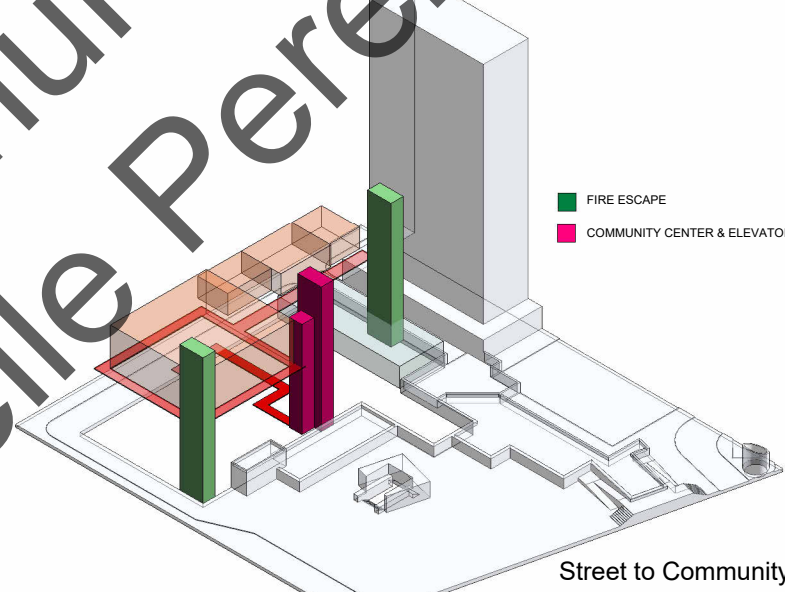
- FIRE ESCAPE
- CHILD CARE ELEVATOR ONLY



Child Care - Level 2

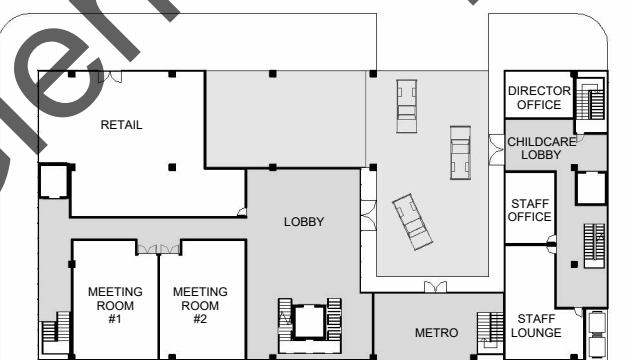
Street to Child Care

- FIRE ESCAPE
- COMMUNITY CENTER & ELEVATOR



Street to Community Center

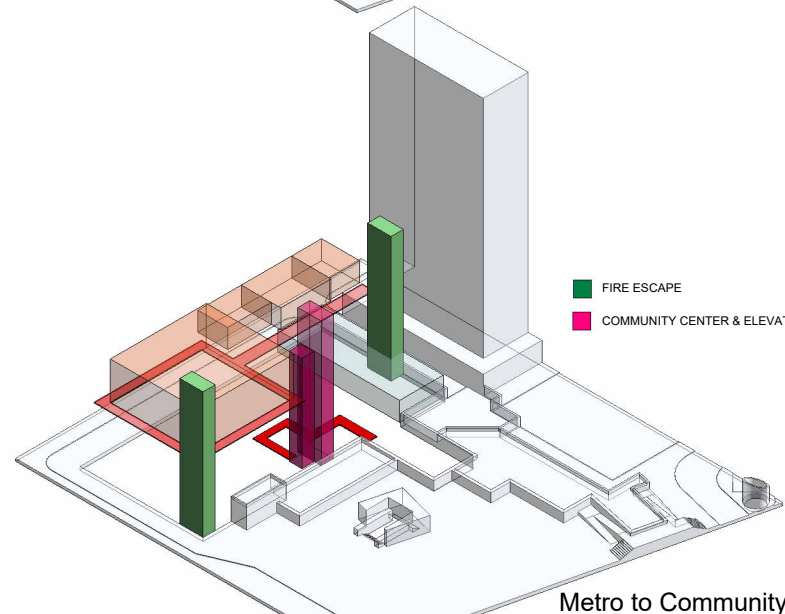
- FIRE ESCAPE
- CHILD CARE ELEVATOR ONLY



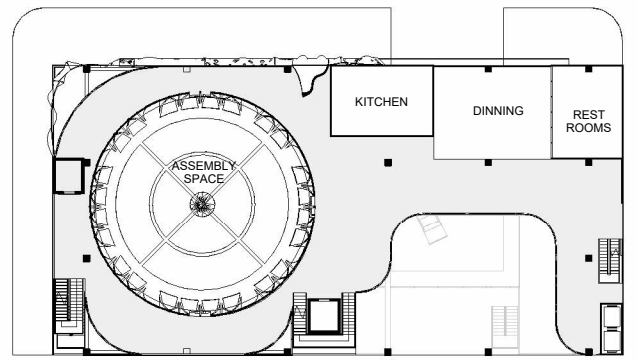
Ground Level

Metro to Child Care

- FIRE ESCAPE
- COMMUNITY CENTER & ELEVATOR



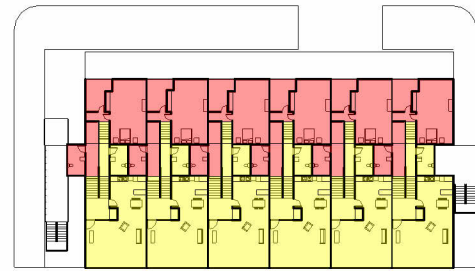
Metro to Community Center



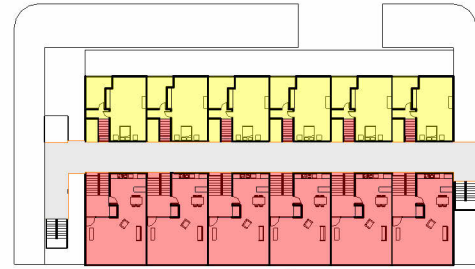
Community Center - Level 4

Apartments Configuration

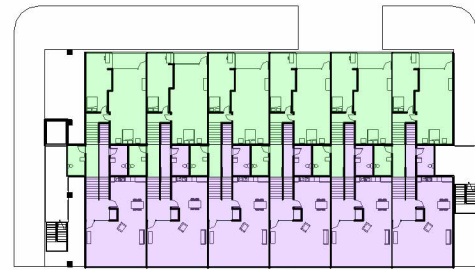
- FIRE ESCAPE
- APARTMENTS ELEVATOR ONLY
- UNDERGROUND ELEVATOR & STAIRS



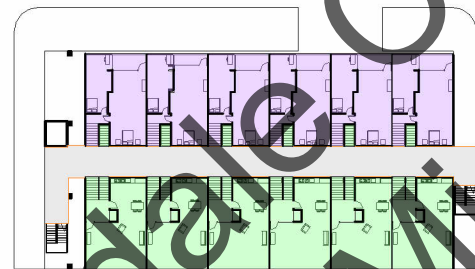
- Apartments - Level 8
- 1 Bed Unit
  - 1 Bed Unit
  - Hallway



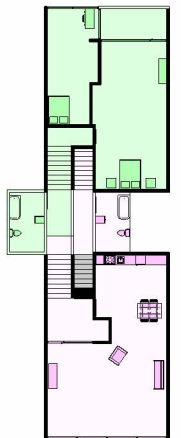
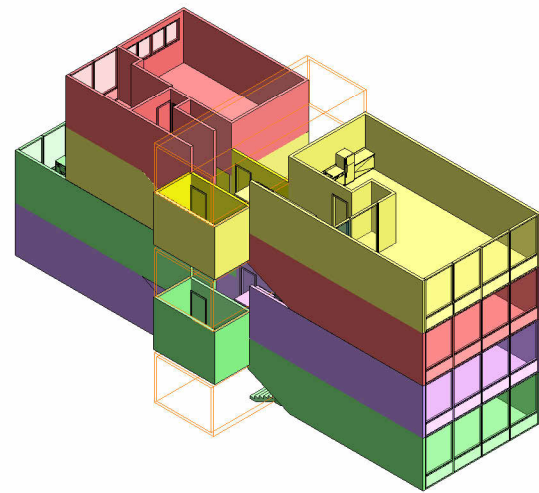
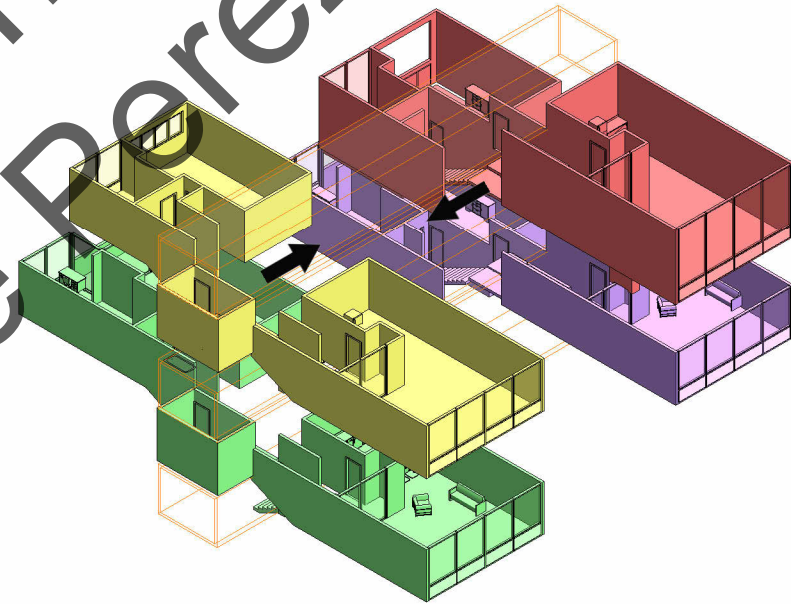
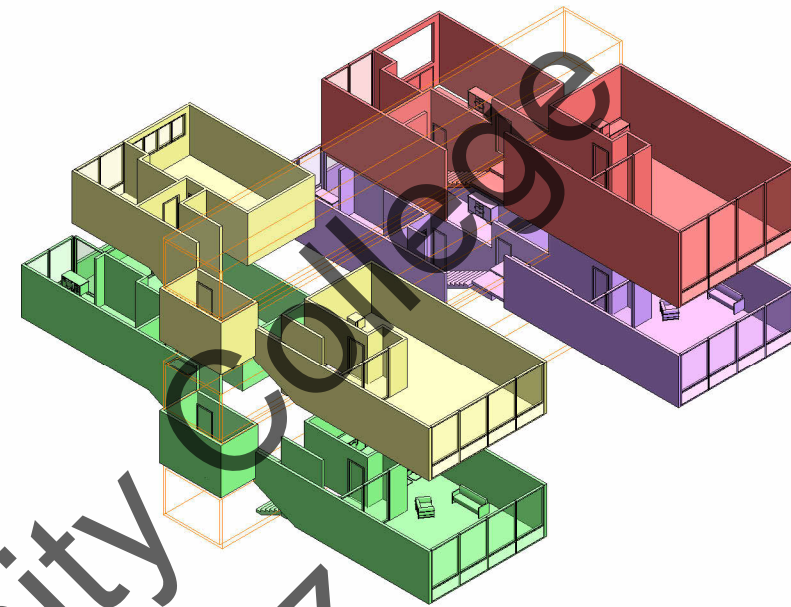
- Apartments - Level 7
- 1 Bed Unit
  - 1 Bed Unit
  - Hallway



- Apartments - Level 6
- 2 Bed Unit
  - 2 Bed Unit
  - Hallway



- Apartments - Level 5
- 1 Bed Unit
  - 1 Bed Unit
  - Hallway
  - 2 Bed Unit
  - 2 Bed Unit



Parking to Apartments

Street to Apartments

Metro to Apartments

- FIRE ESCAPE
- APARTMENTS ELEVATOR ONLY
- STAIRCASE

- FIRE ESCAPE
- APARTMENTS ELEVATOR ONLY
- STAIRCASE

Glendale Community College  
Michelle Perez

Glendale Community College  
Michelle Perez

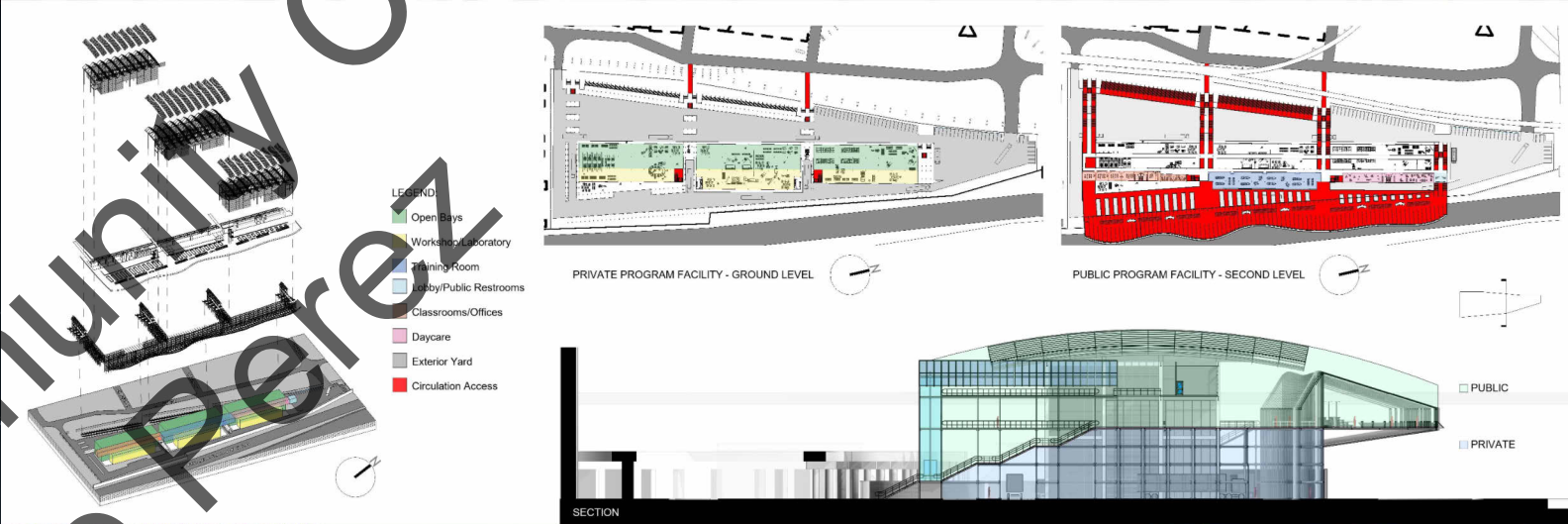
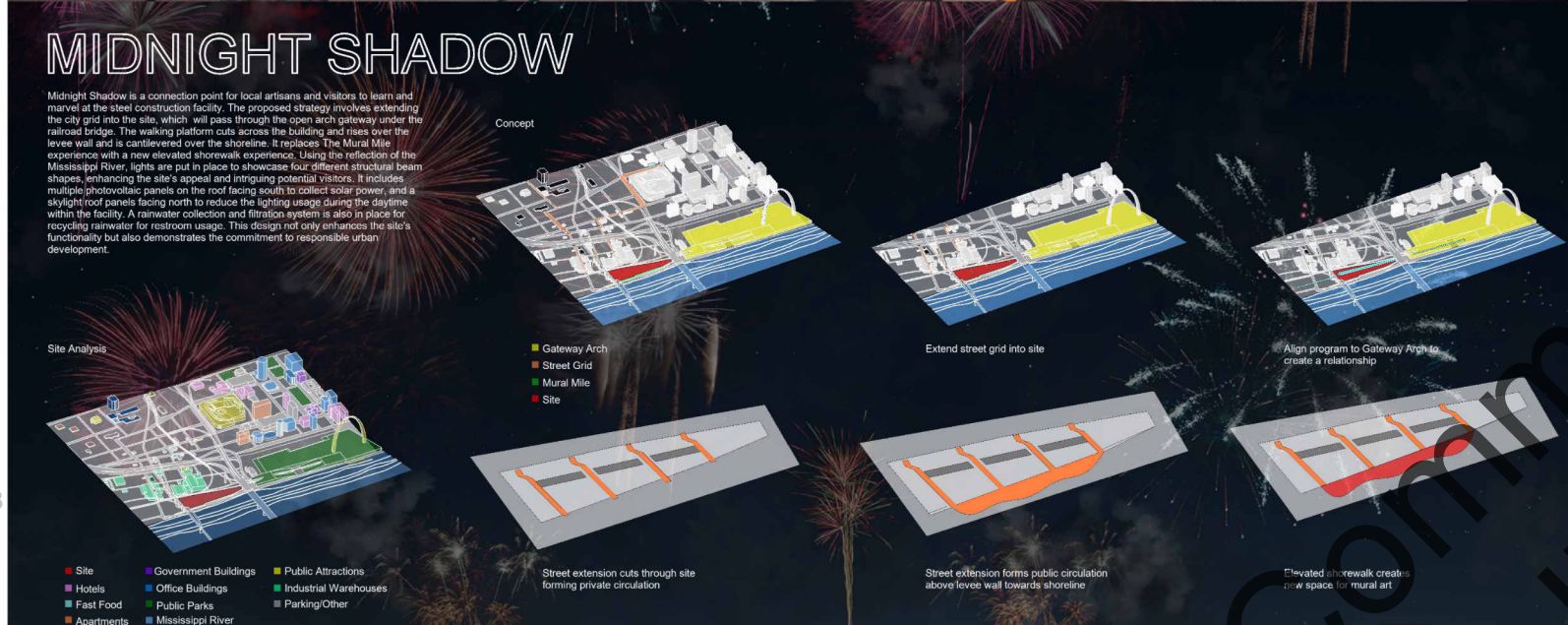
16

17



West Elevation

Cross Section



The site is an orphan, detached from the city's development of the St. Louis Gateway Arch tourist attraction and the urban texture of roads, sidewalks, streets, and pedestrians. The site faces the majestic Mississippi River without attraction to visitors and connection to pedestrians. The Steel Innovation center, a unique visitor destination, offering a stunning view of the Mississippi River. It is a connection point for local artisans and visitors to learn and marvel at the steel construction facility. The building's orientation, aligned with the St. Louis Gateway Arch, emphasizes the monument's visual significance along the shoreline.

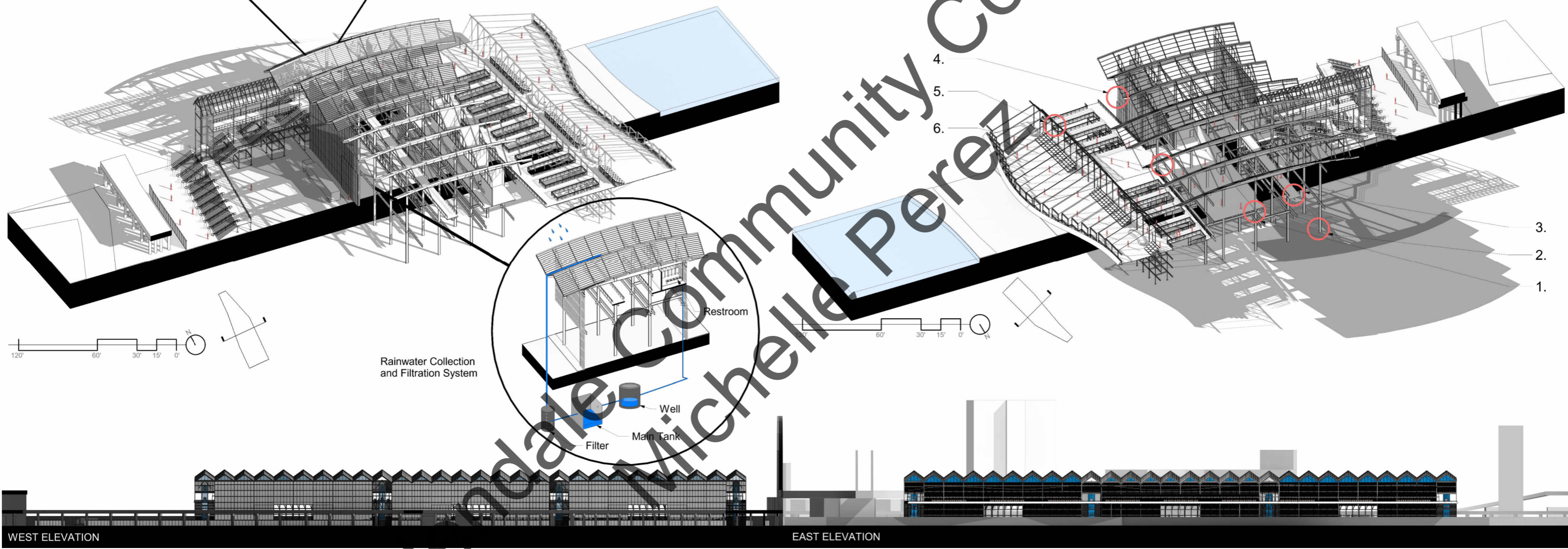
Its distinctive geometry adds to the appeal of the shoreline's landscape and skyline, making it a standout feature of the site. The proposed strategy for enhancing the site's pedestrian experience is not just comprehensive, but also innovative. It involves extending Cedar Street and Gratiot Street sidewalks, which will pass through the open arch gateway under the railroad bridge. The walking platform cut across the building and rose over the levy wall and cantilevered over the shoreline. This unique approach not only improves the site's accessibility to the shore but also creates a one-of-a-kind walking experience for visitors.

It replaces The Mural Mile experience with a new elevated shorewalk experience. Using the waters reflection, lights are put in place to showcase four structural beam shapes, enhancing the site's appeal and intriguing potential visitors. The strategy for sustainable design is a key aspect of my proposal. It includes multiple transparent photovoltaic panels on the roof facing south to collect solar power, and skylight roof panels facing North to reduce the lighting usage during the day time within the facility. A rainwater collection and filtration system is also in place for recycling rainwater for bathroom usage. This design not only enhances the site's functionality but also demonstrates our commitment to responsible urban development.

South Facing Photovoltaic Solar Panels

North Facing Skylight

- 1. Beam to Column
- 2. Column to Footer
- 3. Floor Support
- 4. Wall Detail
- 5. Cantilever Cable Connection
- 6. Roof Frame Connection



The building's design is a structure and a testament to my commitment to the St. Louis Arch. It aligns with the Arch's grandeur, accentuating its visual significance along the shoreline's landscape. The facility is a marvel, a composite of three groups of program components intersecting with four circulation stairs and elevator towers that boldly cut through the building. These towers extend and cantilever over the Mural Mile to the shoreline, creating a shorewalk experience that is truly unique for visitors.

The Steel Innovation Center's access is on the ground level for easy transportation. The public side of the program, including the administration, child care center, and sculpture landscape, is thoughtfully placed at the upper level, accessible through the four circulation stairs and elevator towers that cut through the building and extend and cantilever to the shoreline, ensuring a seamless flow of movement from the city grid to the coastline.

The building's roof is a thoughtful consideration for sustainability. It is curved downward on both East and west elevations to facilitate rainwater harvesting. The roof panel facing the southside is a transparent photovoltaic panel that collects solar energy. The glass roof panel facing North allows natural lighting into the building to reduce lighting assumptions. During the special event at the River, the shore walk will transform itself with seating and light shows for visitors to enjoy. With the help of the mirror pool reflection effect, the lighting features at the shore walk will add a unique specular light show.

