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PORTFOLIO

**MEGHRIG ZAKI**

*architecture*

## Background

I was born in Syrian Armenian family. My family and I moved to the United States a few years ago. Because of my ambition for education and interest in architecture, I couldn't wait to start attending Glendale Community College to pursue my passion. I find architecture very fun and exciting. The main reason I'm passionate about Architecture is because I love to plan and design buildings. I've always had the ambition to oversee and explore the diversity of people's culture, multi-culture design preferences, and risk-taking high-tech architecture design and construction.

## Education

Glendale Community College 2019 to current

## Skills

Sketch up	Model
Revit	Making
Autocad	Hand
Twinmotion	Sketching

## Architectural Accomplishment

ACLA 2x8 2021 Exhibition Design Competition.  
[http://2x8.org/meghrig\\_z/](http://2x8.org/meghrig_z/)



**MEGHRIG ZAKI**  
*architectural student*

### 01 P.01 Paralympic Training Center

Los Angeles, USA  
*architecture*

### 04 P.27 Design House Project Program Ellie Cole

Los Angeles, USA  
*architecture*

### 02 P.09 Senior Housing Project

Los Angeles, USA  
*architecture*

### 05 P.37 Villa Savoye Case Study Project

By Le Corbusier  
*architecture*

### 03 P.19 Little Tokyo Site Commercial Development

Los Angeles, USA  
*architecture*

### 06 P.43 Residential Case Study Project

*architecture*

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# 01 Paralympic Training Center

Los Angeles, USA  
*architecture*

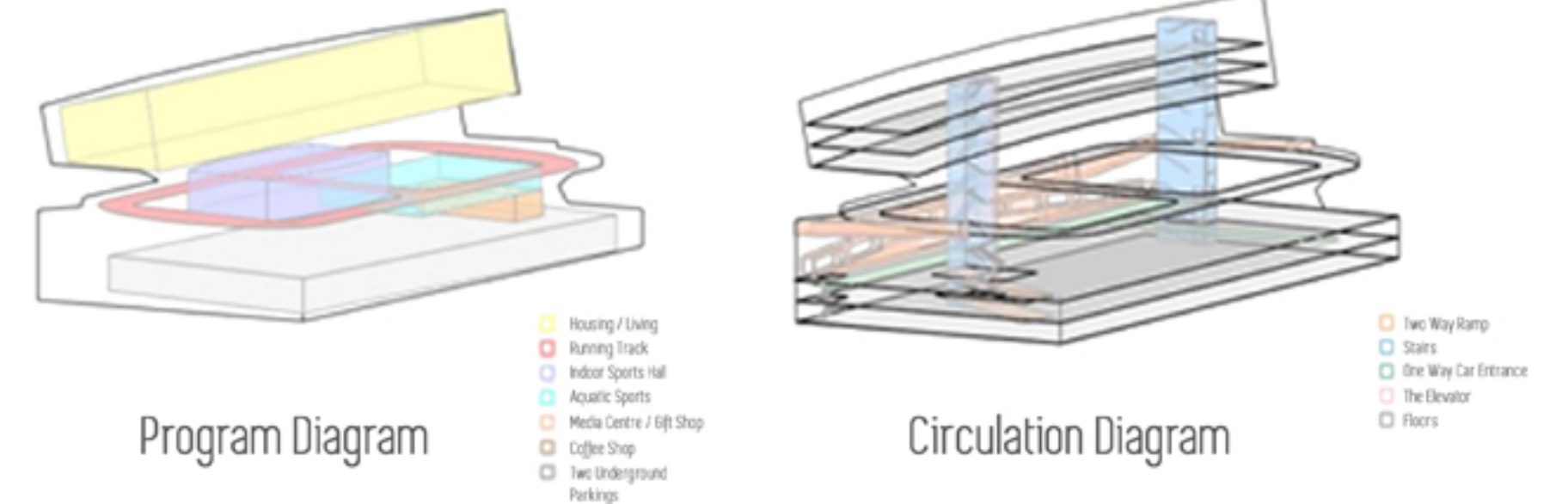
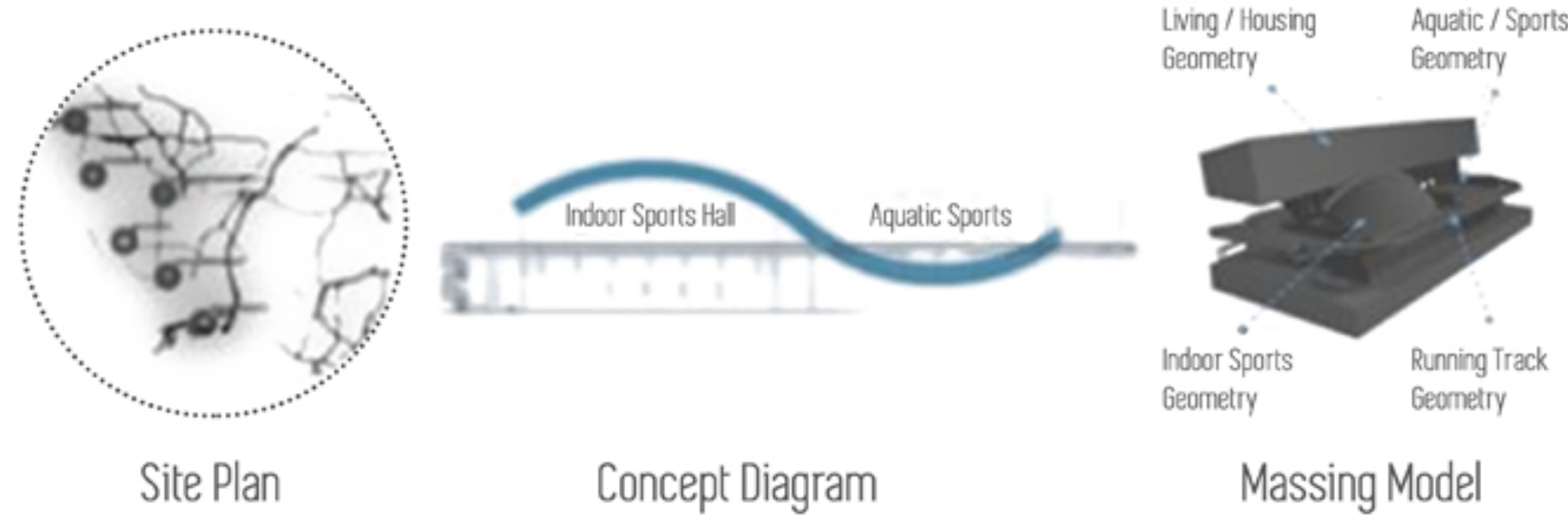
## Introduction

This project is a sports training facility for Paralympic athletes located a block away from Los Angeles Convention Center. Its purpose is to serve the community of disabled people and athletes with intellectual disabilities, deaf athletes to train and become Para athletes and Paralympians. This facility is a response to the rising attention and popularity of the Paralympic games and also serves as a training facility for the Paris 2024 and Los Angeles 2028 Paralympic games.

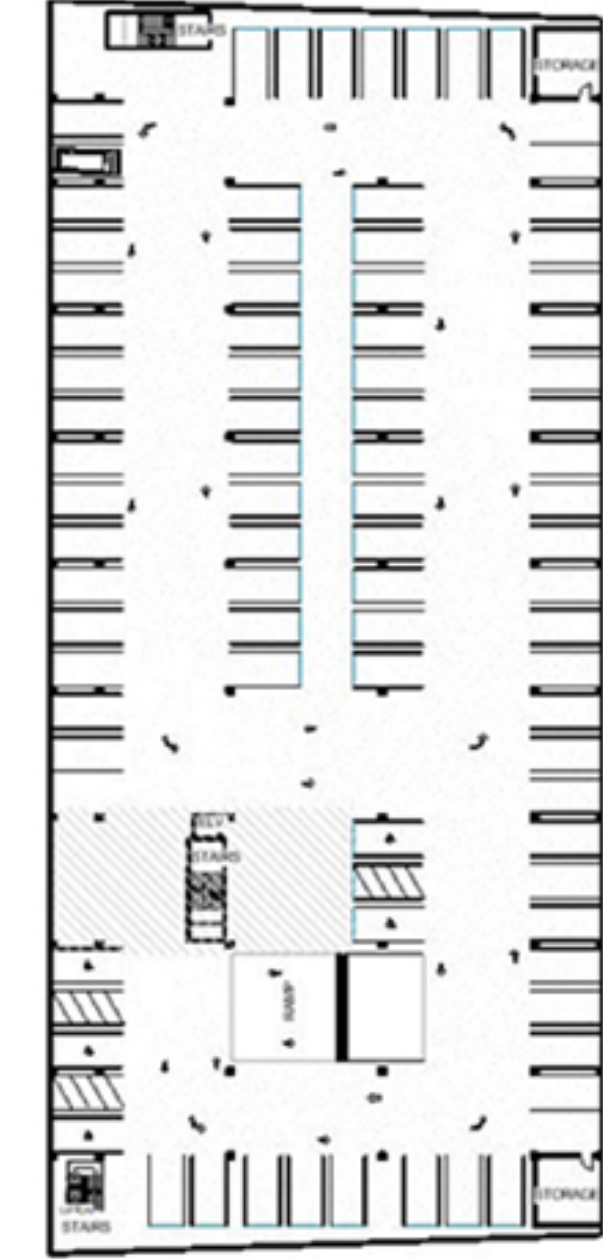
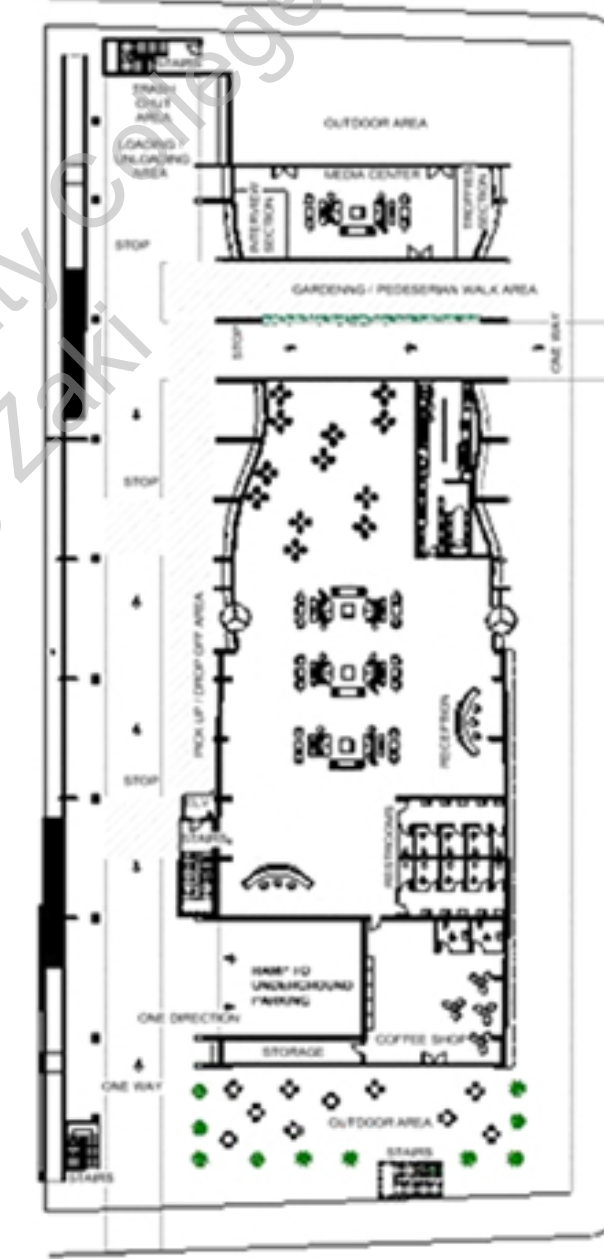
The concept of the building is an abstract expression of body muscle tissues integrated with bionic technologies. The expressive skeleton form structure [bionic technologies] integrating with the use of concave [aquatic sports] and convex [indoor sports hall] geometries shells [body muscle tissues] to represent the form of the building program and tiding in with a suspended running track to define the perimeter of the training center.



## Existing Site Conditions and Concept



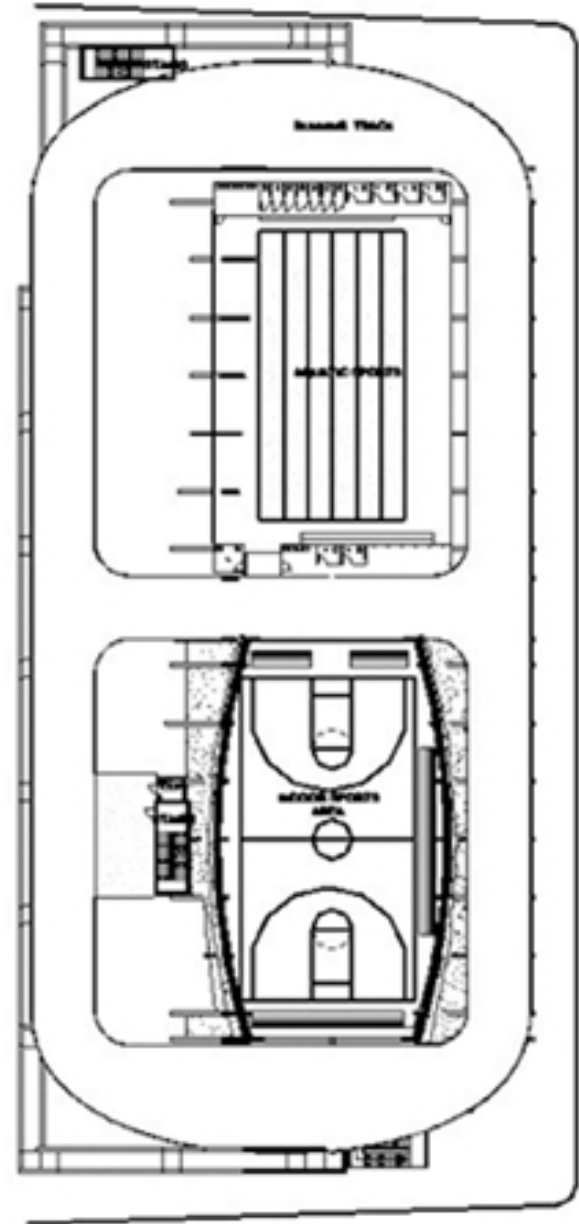
## Floor Plans



This project is a sports training facility for Paralympic athletes located a block away from Los Angeles Convention Center. Its purpose is to serve the community of disabled people and athletes with intellectual disabilities, deaf athletes to train and become Para athletes and Paralympians. This facility is a response to the rising attention and popularity of the Paralympic games and also serves as a training facility for the Paris 2024 and Los Angeles 2028 Paralympic games.



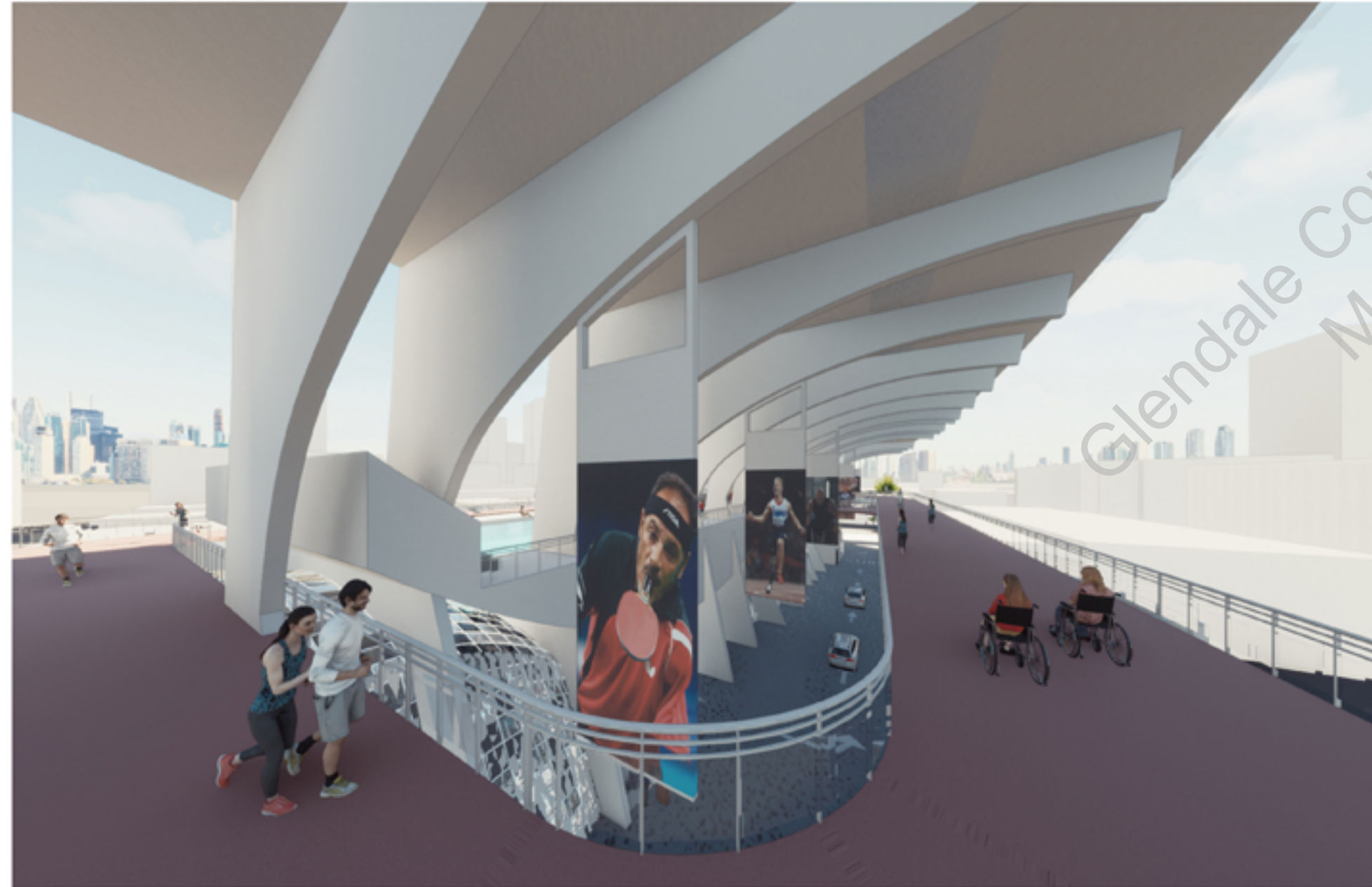
## Floor Plan and Section



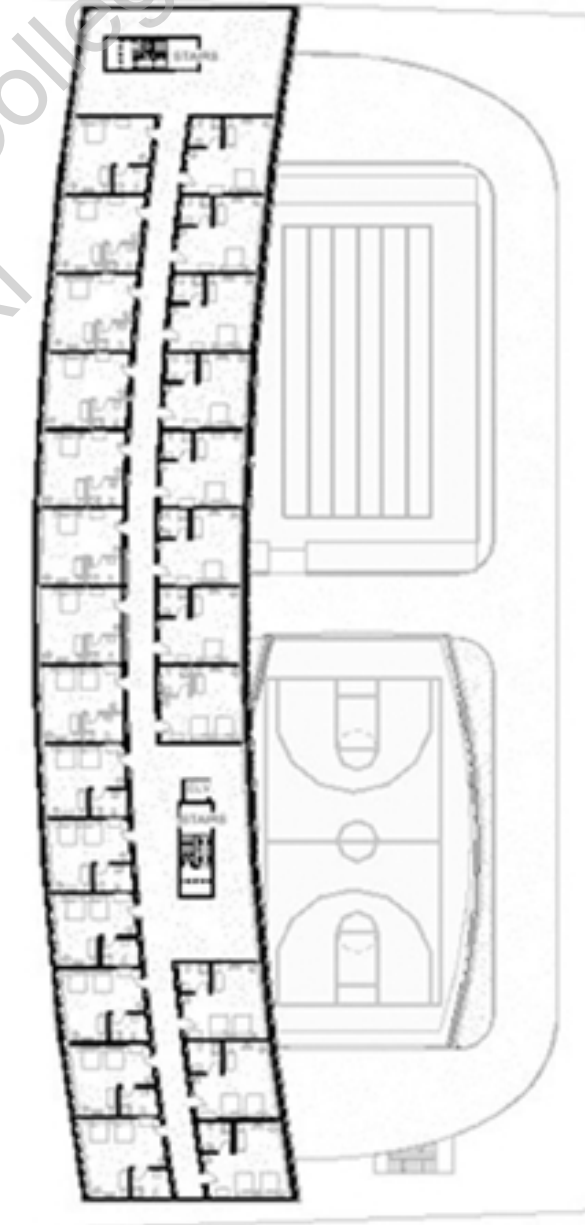
Sports Level



The training center consists of two vertical circulation towers located on the Northwest corner and the Northeast corner of the site and combining with ADA exit ramps along the Southside of the site to define the parameter of the building. It has three levels of fully ADA-equipped living units hovering over the Southside of the running track serving as a backdrop of the aquatic sports and indoor sports venues. Those venues are the training center for judo, wheelchair basketball, swimming, running, archery and cycling. On the ground floor, it has a cafeteria/coffee shop, a welcome/gathering area, and the media center with an outdoor monitor to televise USA Paralympic team news and games.



## Floor Plans and Exploded View



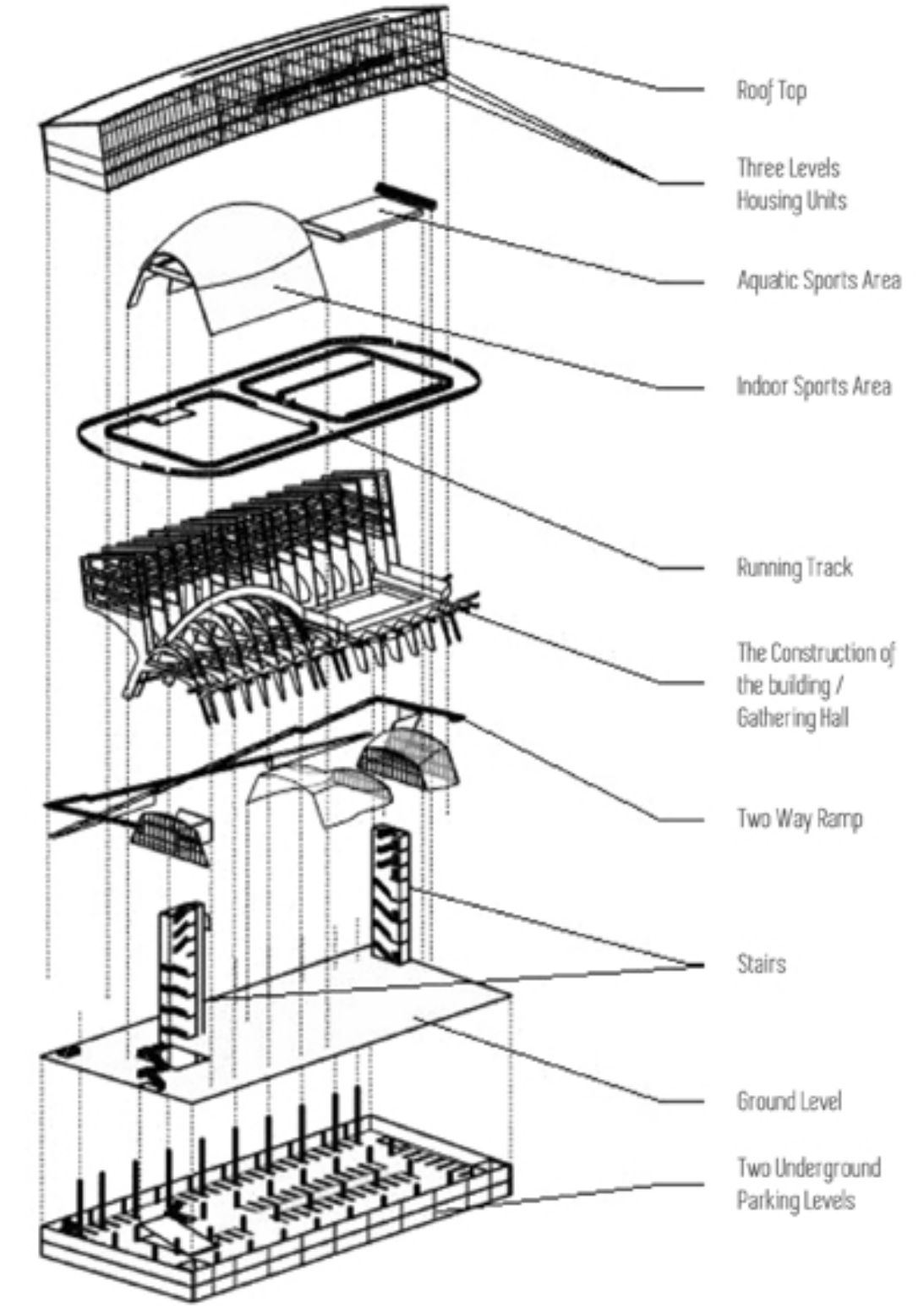
Housing Levels



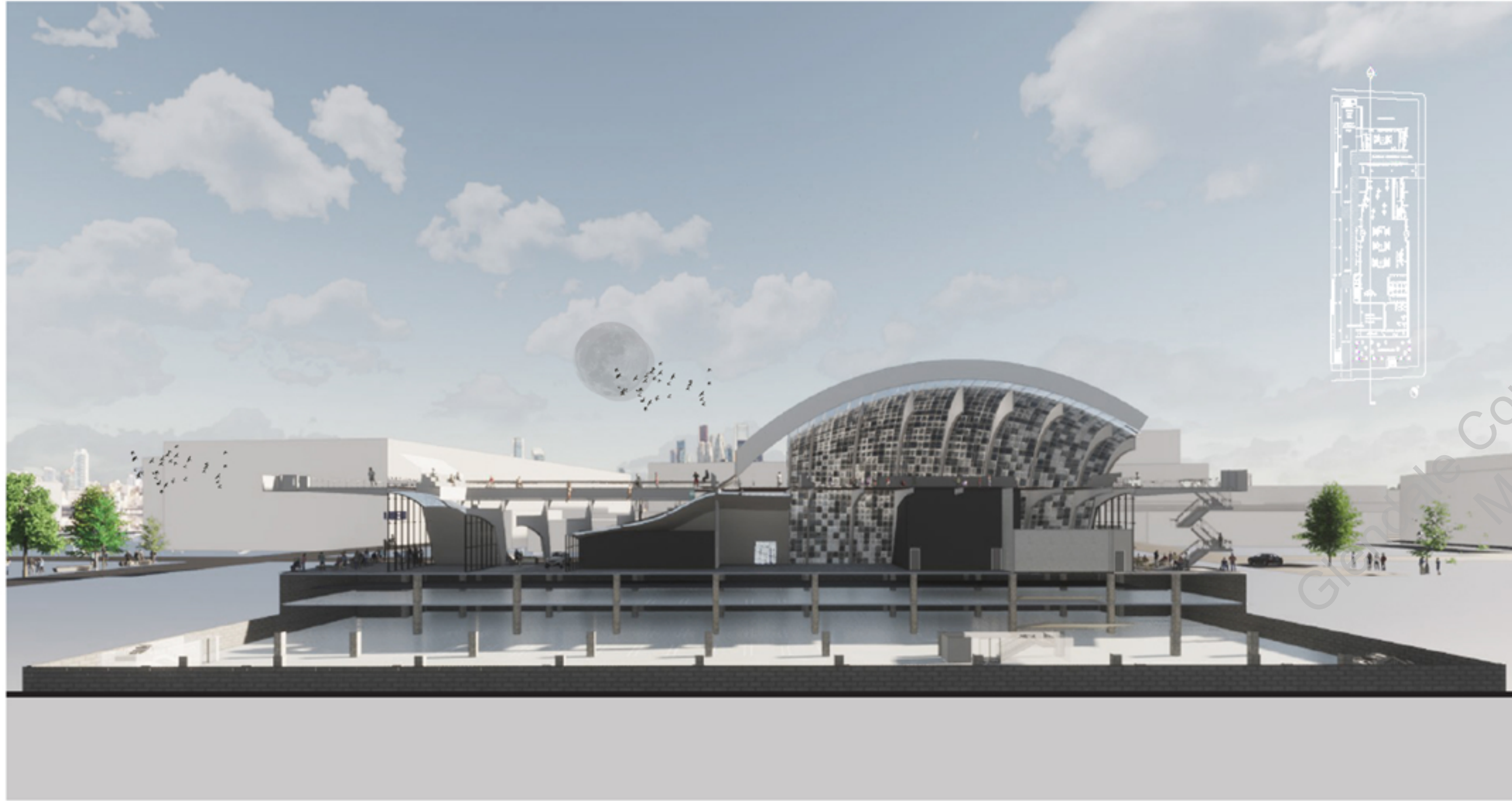
Two Bed Unit



One Bed Unit



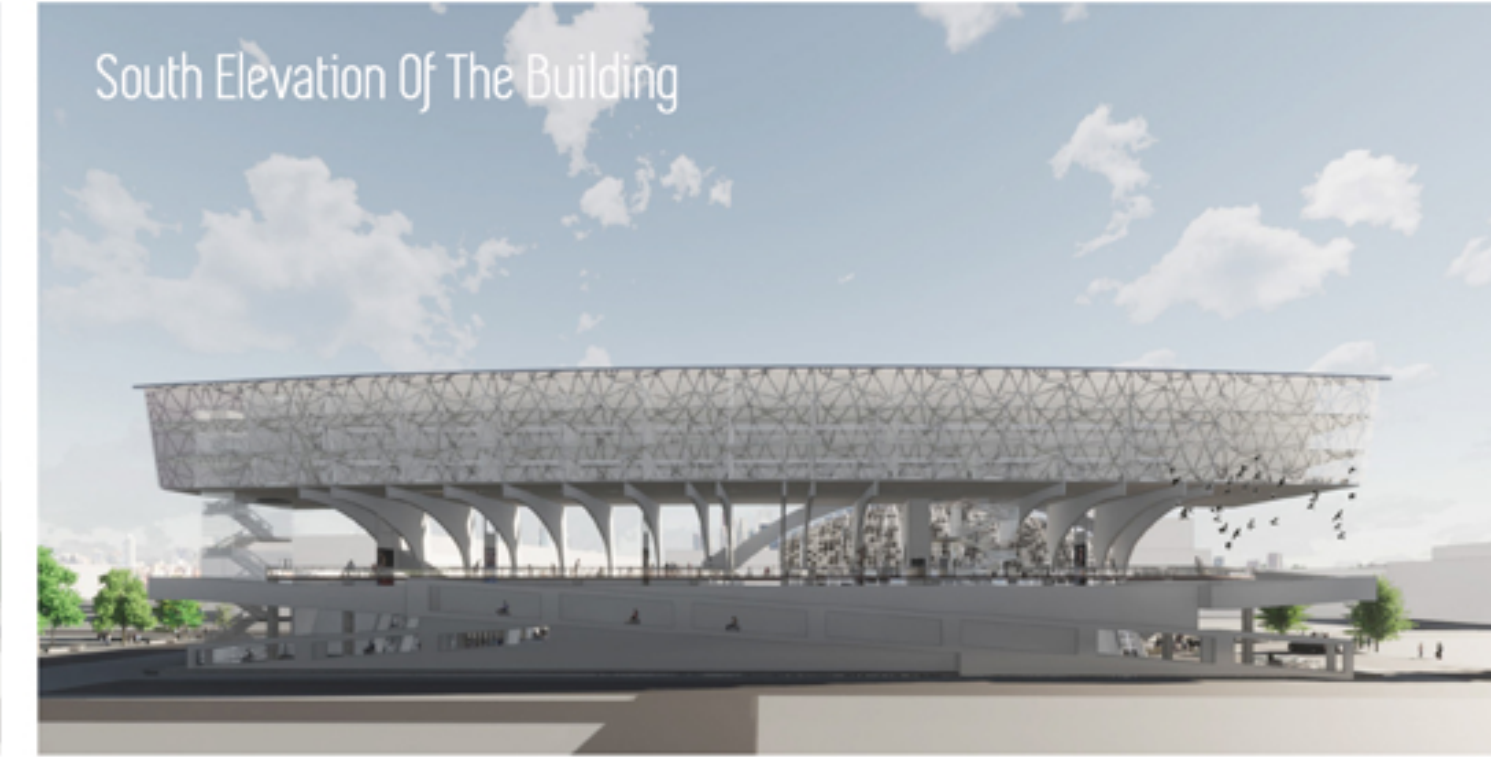
Exploded Diagram



Longitudinal Section Cut Of The Building



Elevations





# 02 Senior Housing Project

Los Angeles, USA  
*architecture*

## Introduction

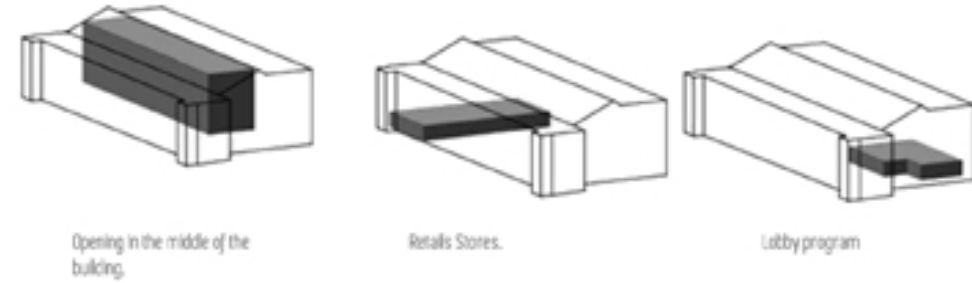
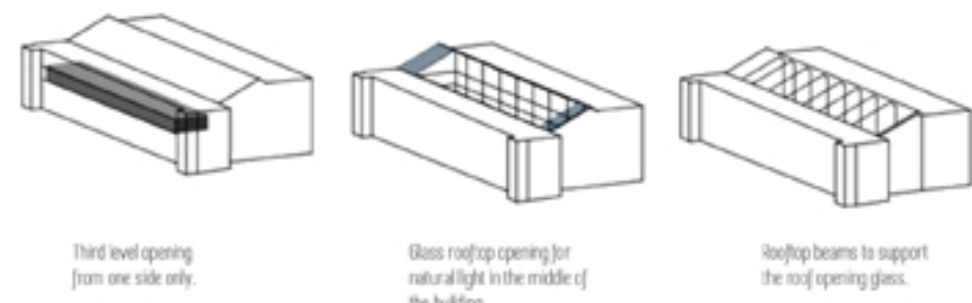
Students are asked to design and proposed a brand new residential Mixed-use 75 feet total height mid rise building for Senior housing mix-used project.

The address is 520 Pico Blvd, Los Angeles, CA. the corner of Pico Blvd, and South Flower Street, a block away from the Los Angeles Convention Center nearby Pico Blue line metro station.

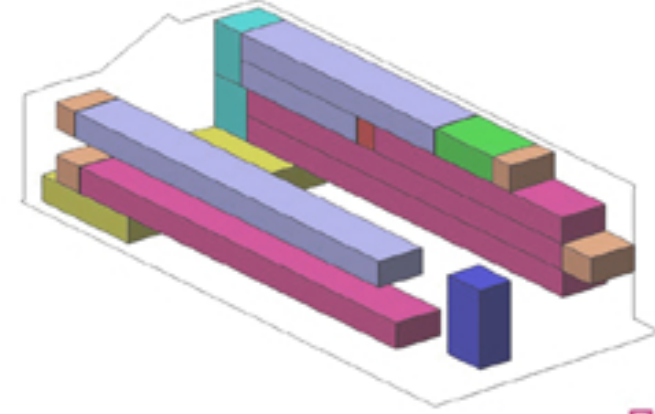
The area of the site is 46,269 sq ft. or 1.06 acre of land since 1 acre = 43,560 sq ft.



## Existing Site Conditions and Concept

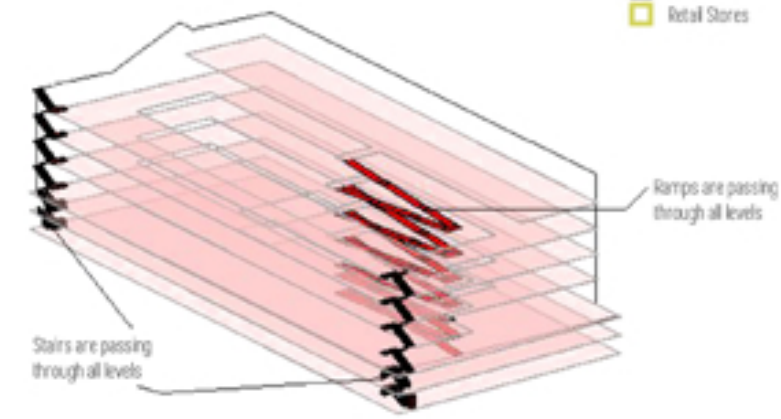


Parti Diagram



Program Diagram

- 1 Bedroom Unit
- 2 Bedroom Unit
- 3 Bedroom Unit
- Laundry Room
- Fitness Room
- Technical Room
- Trash Chute Area
- Retail Stores



- Vertical Circulation - Stairs and Ramps
- Horizontal Circulation

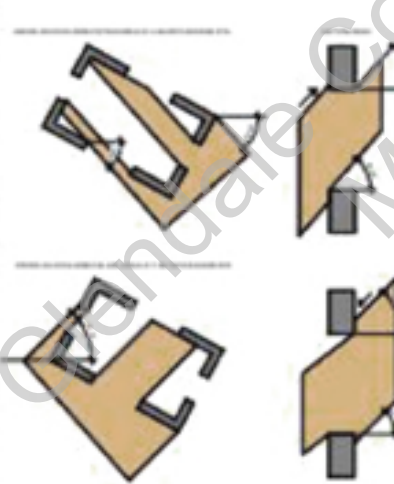
Circulation Diagram



SUMMER SOLSTICE AZIMUTHS SUN ANGLE: On the 21st June, the sun will rise 108° west of due south and set 108° west of due south.

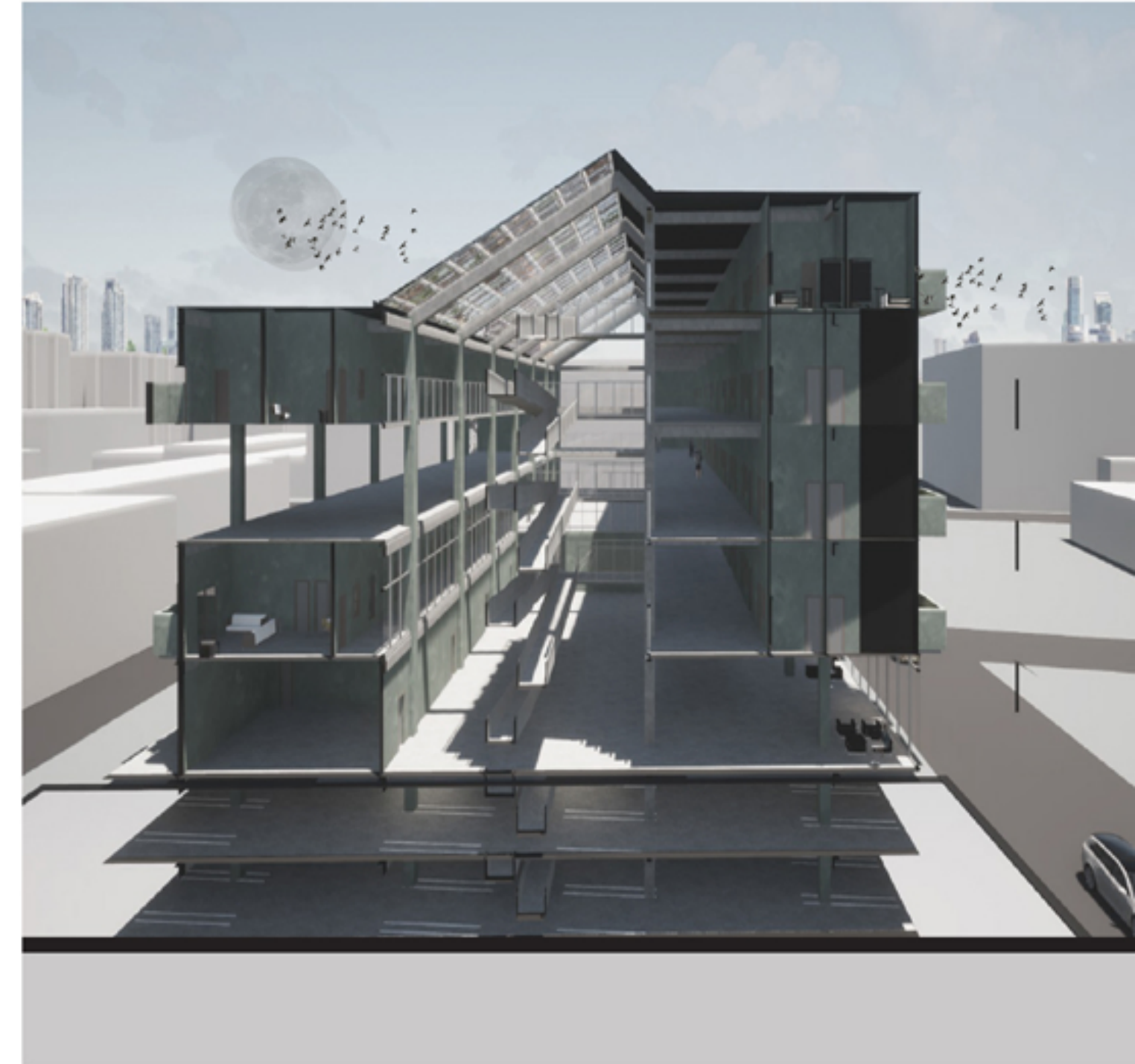
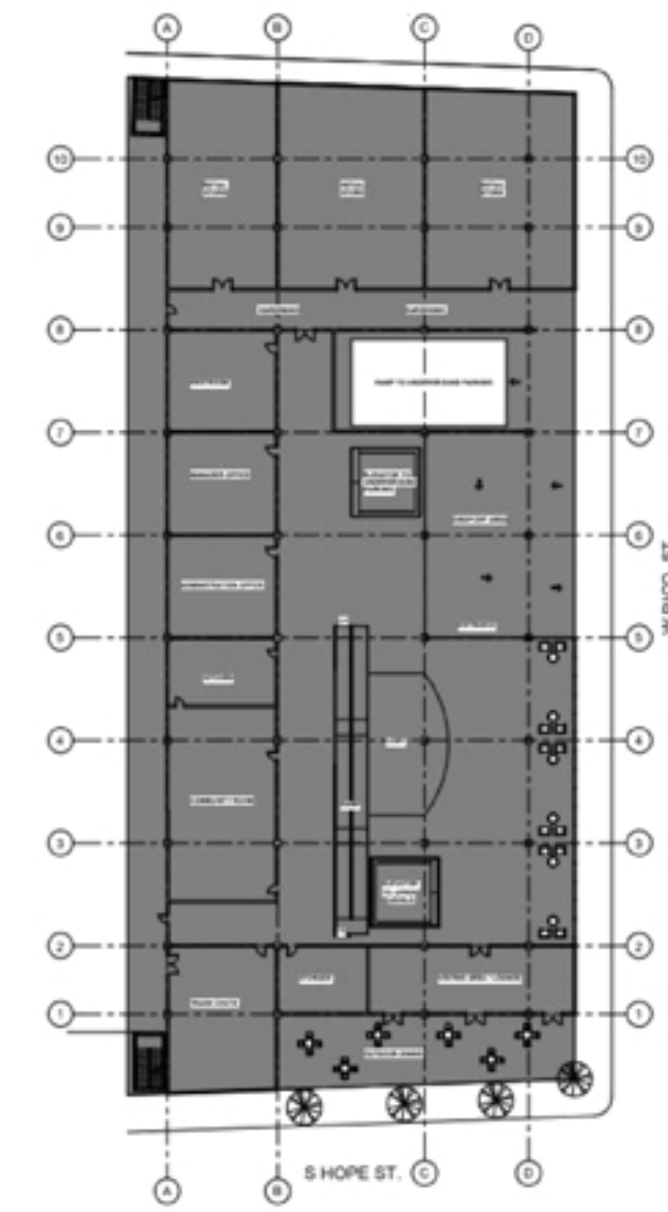
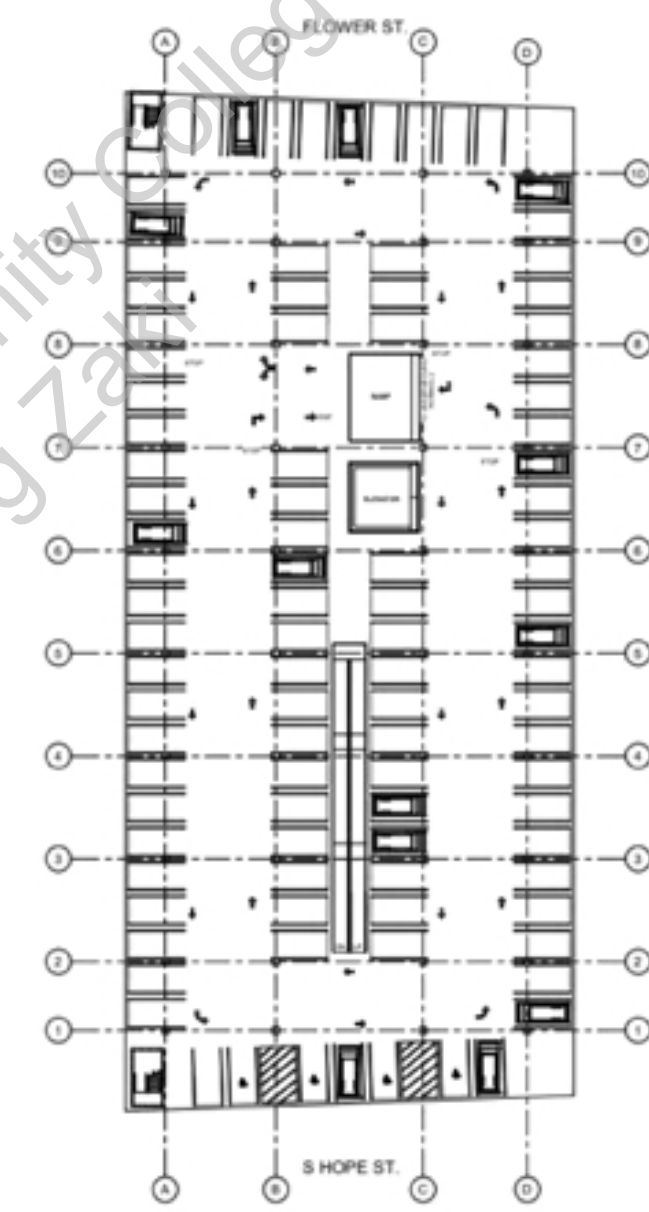


WINTER SOLSTICE AZIMUTHS SUN ANGLE: On the 21st December, the sun will rise 74° west of due south and set 74° west of due south.



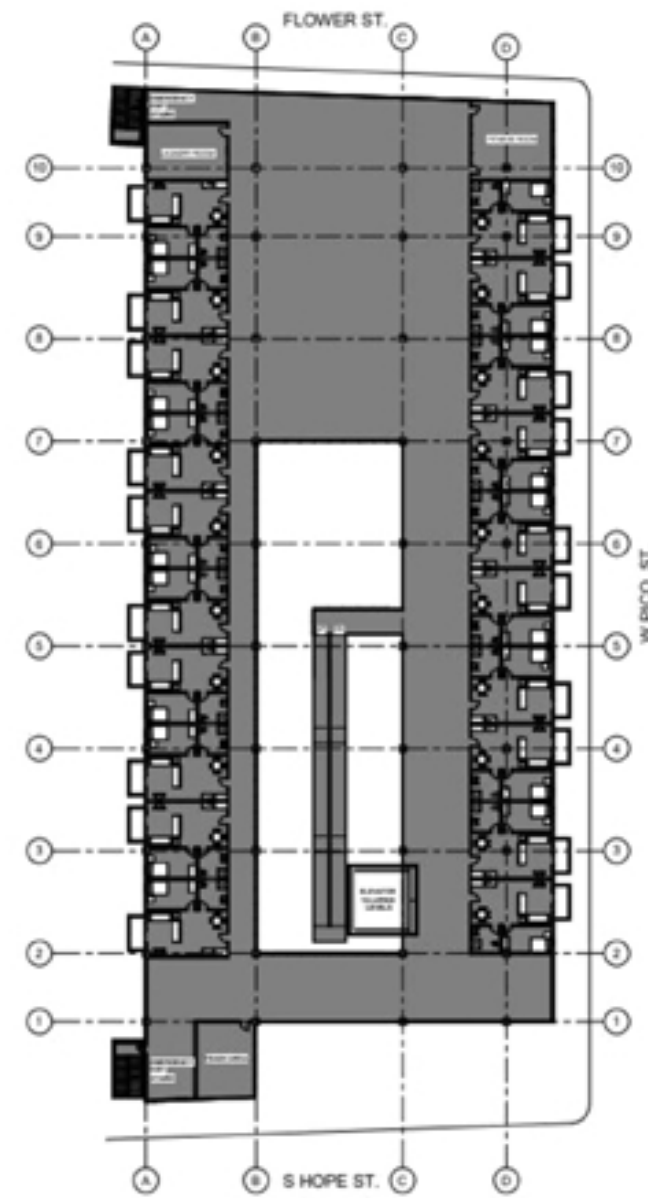
Sun Angle

## Floor Plans

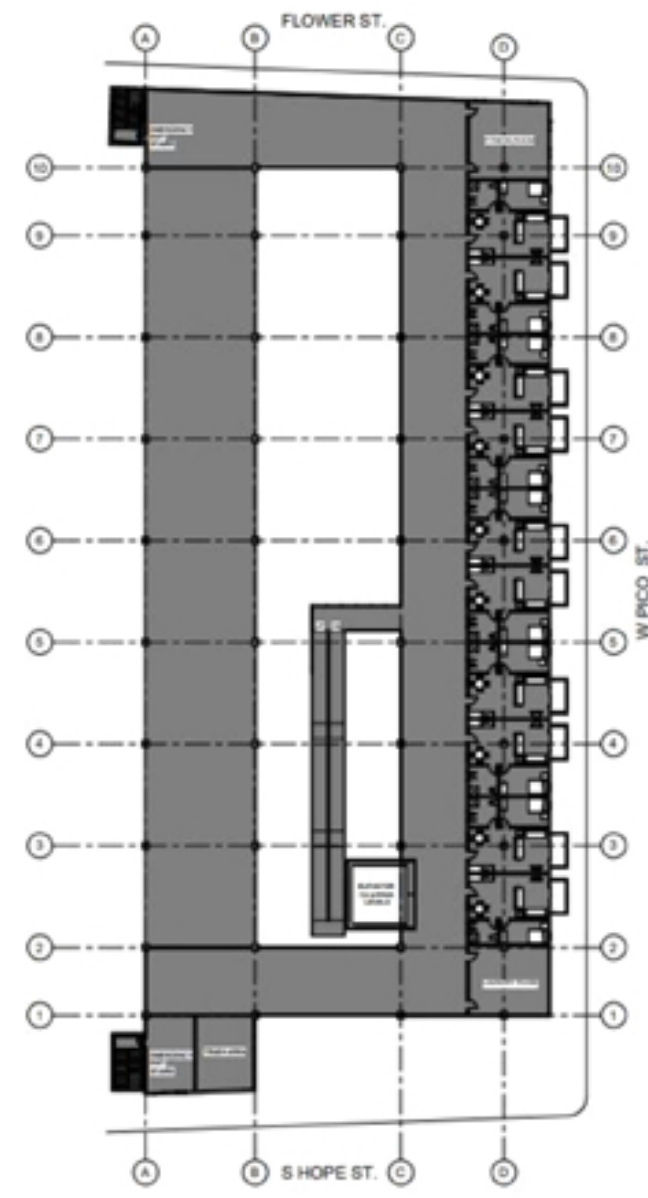


Short Section Cut Of The Building

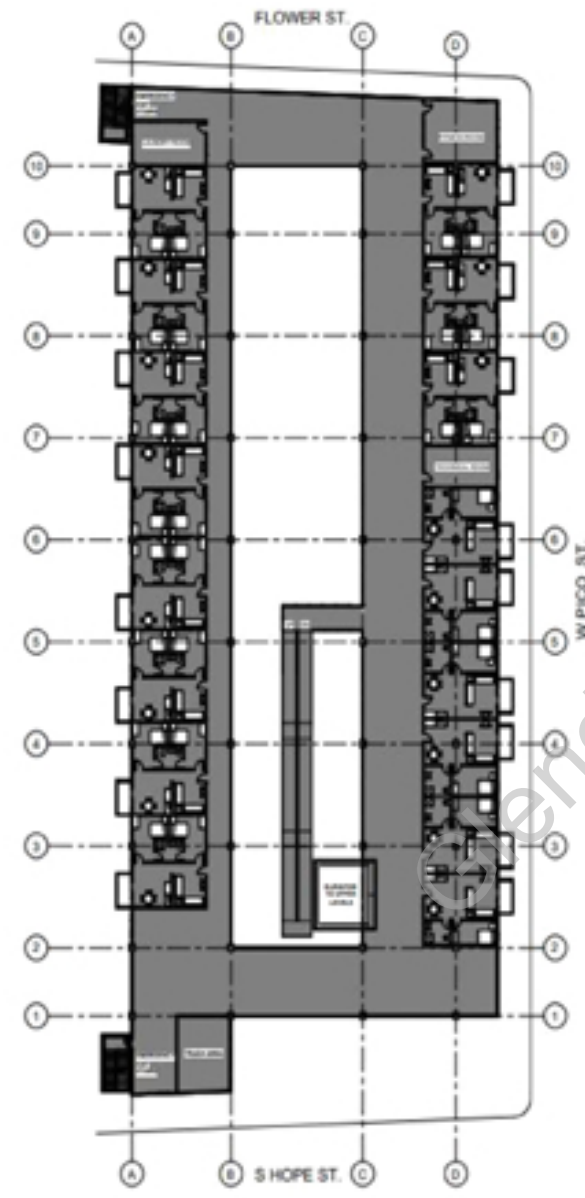
### Floor Plans



Housing level 1

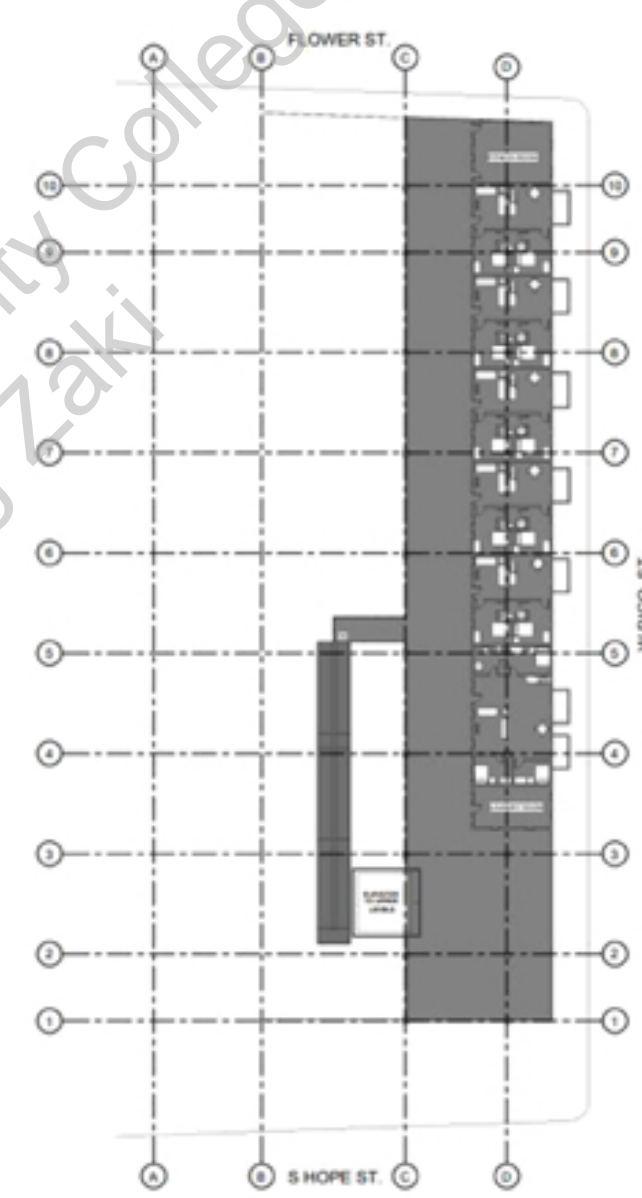


Housing level 2



Housing level 3

### Floor Plans



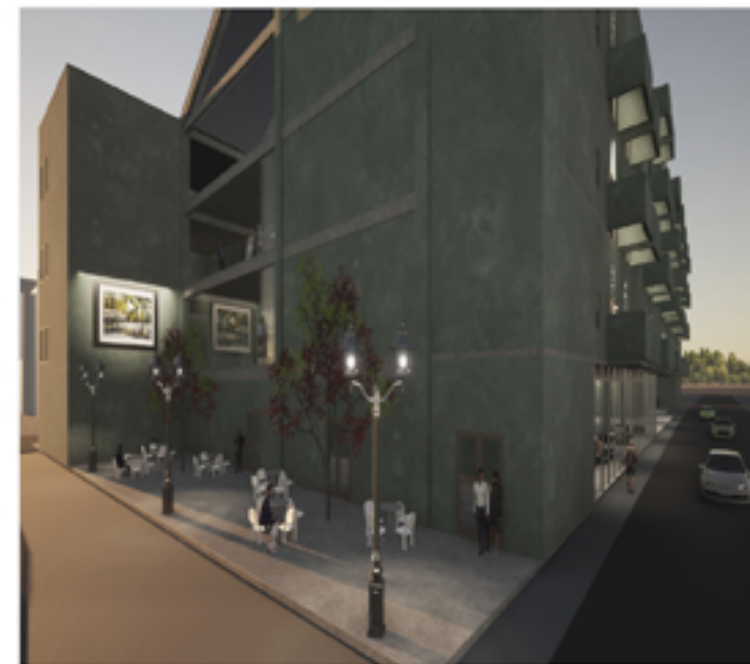
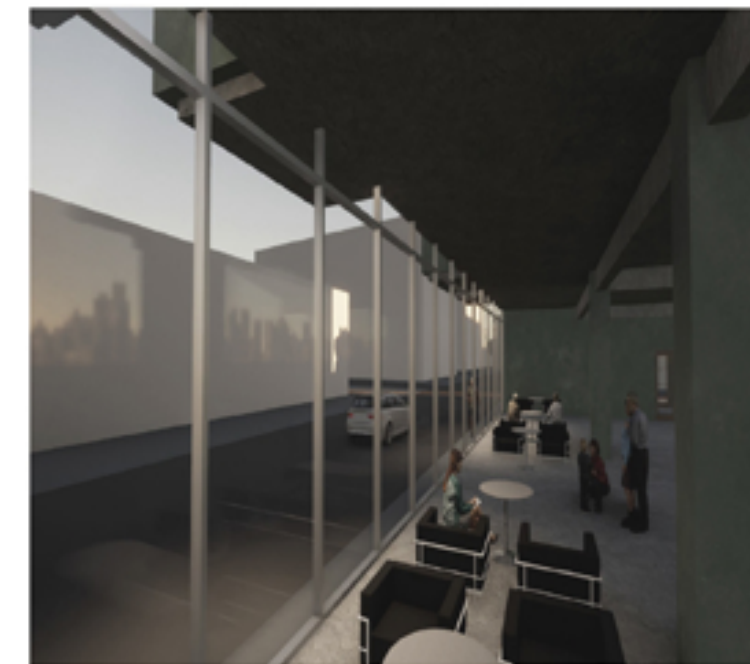
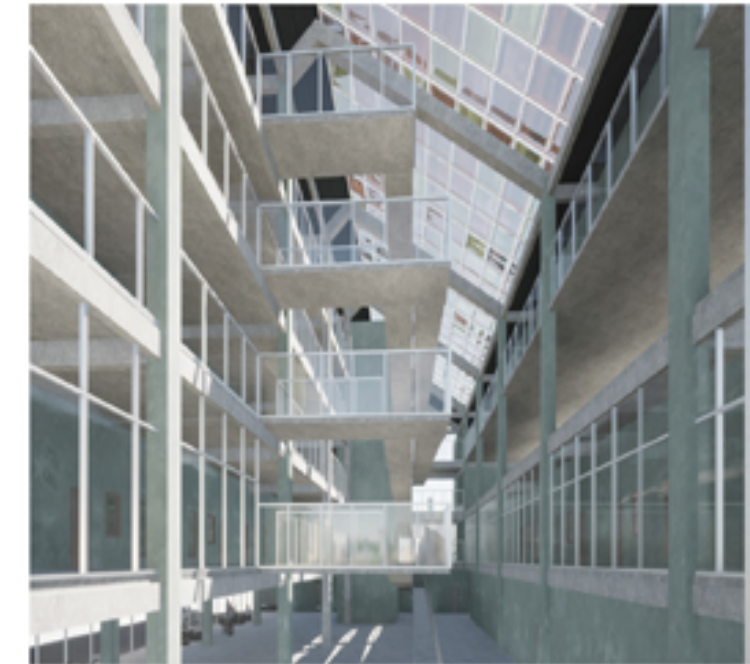
Housing level 4

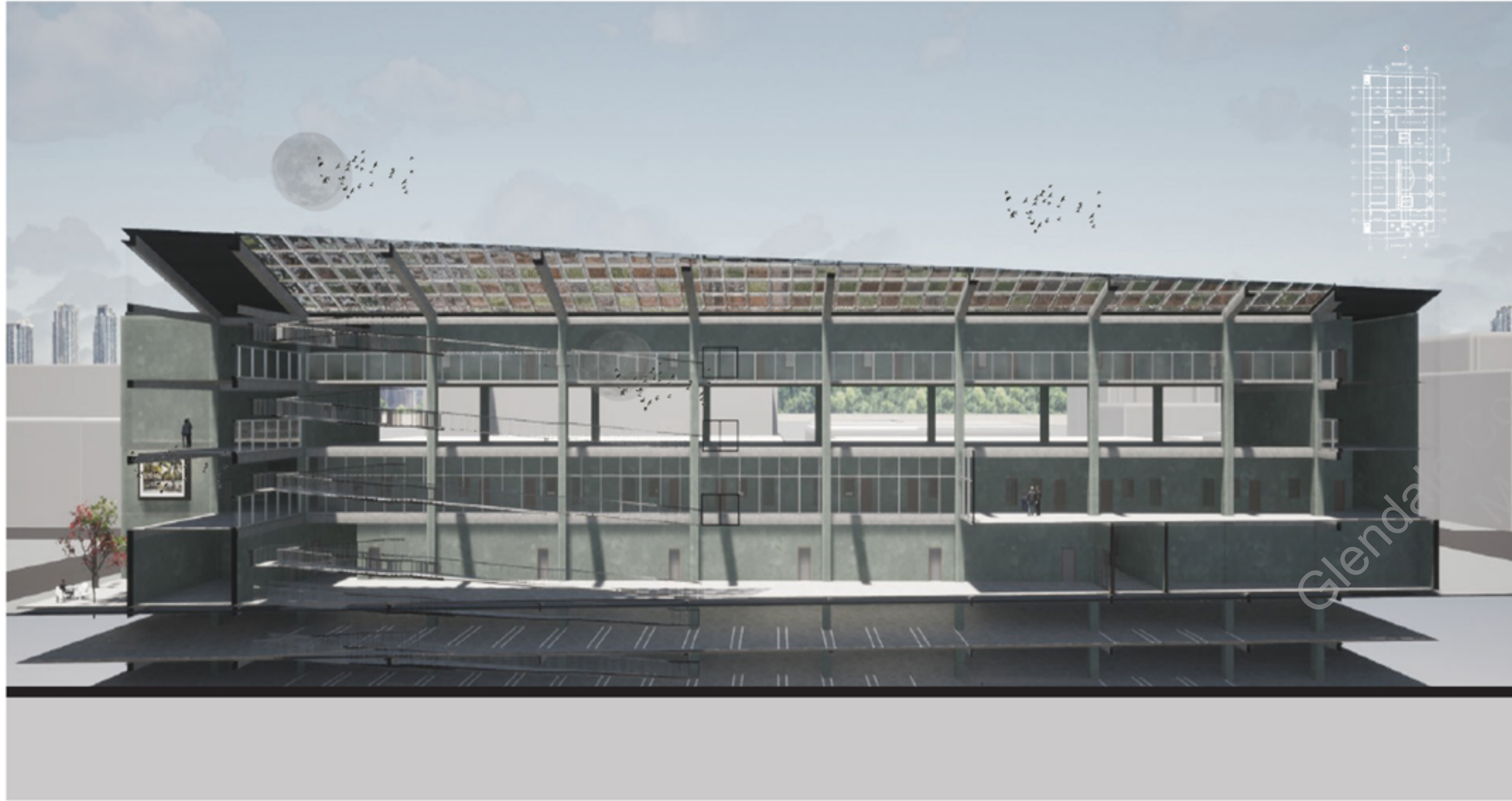


One Bed Unit

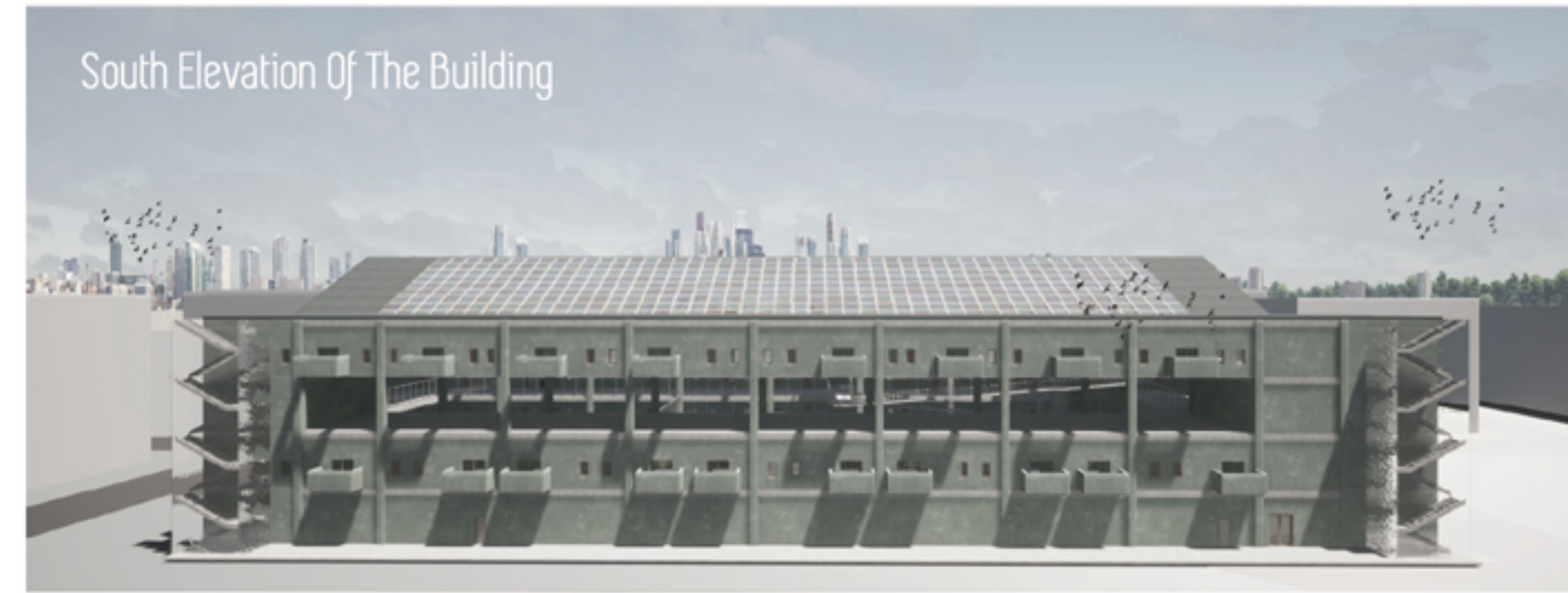


Two Bed Unit

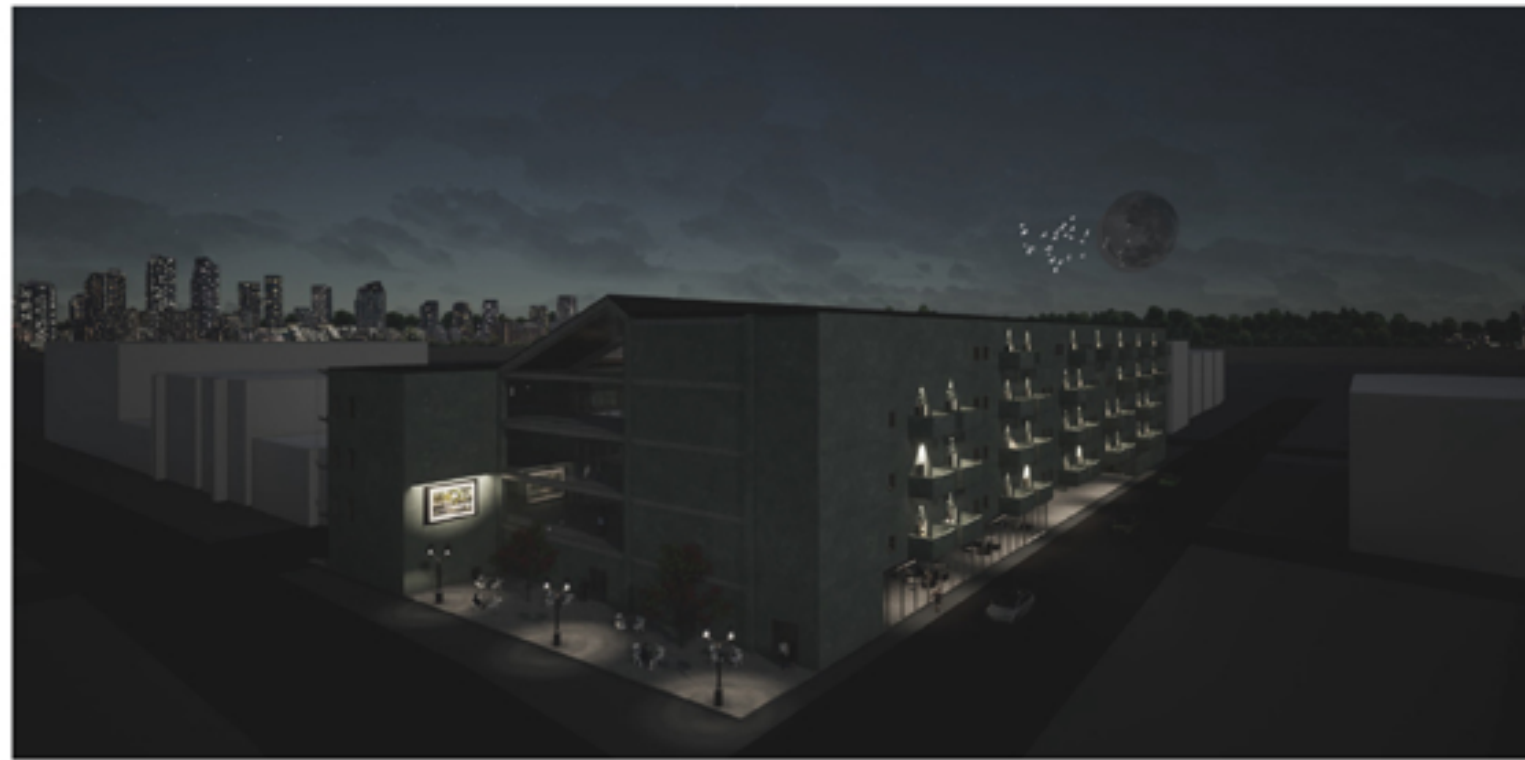
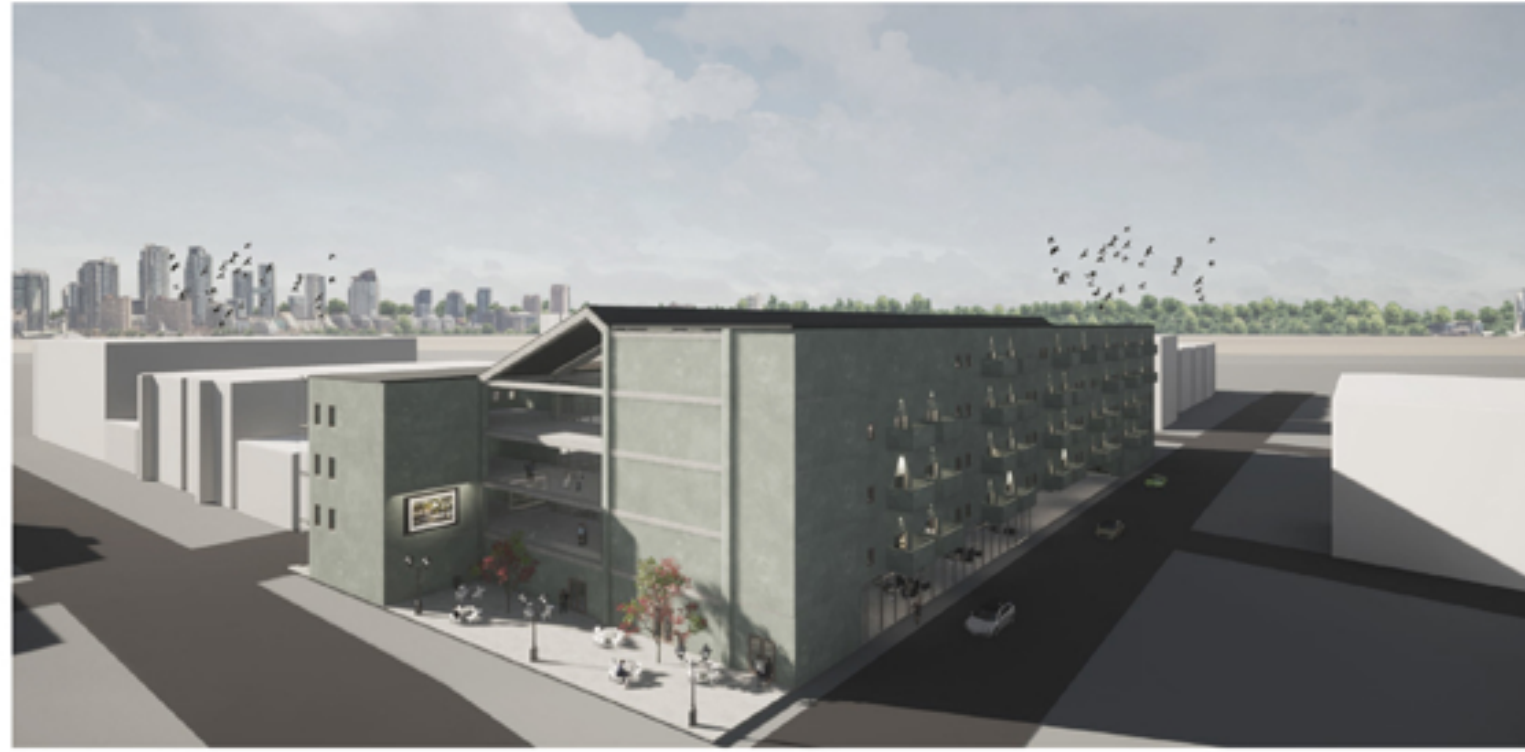




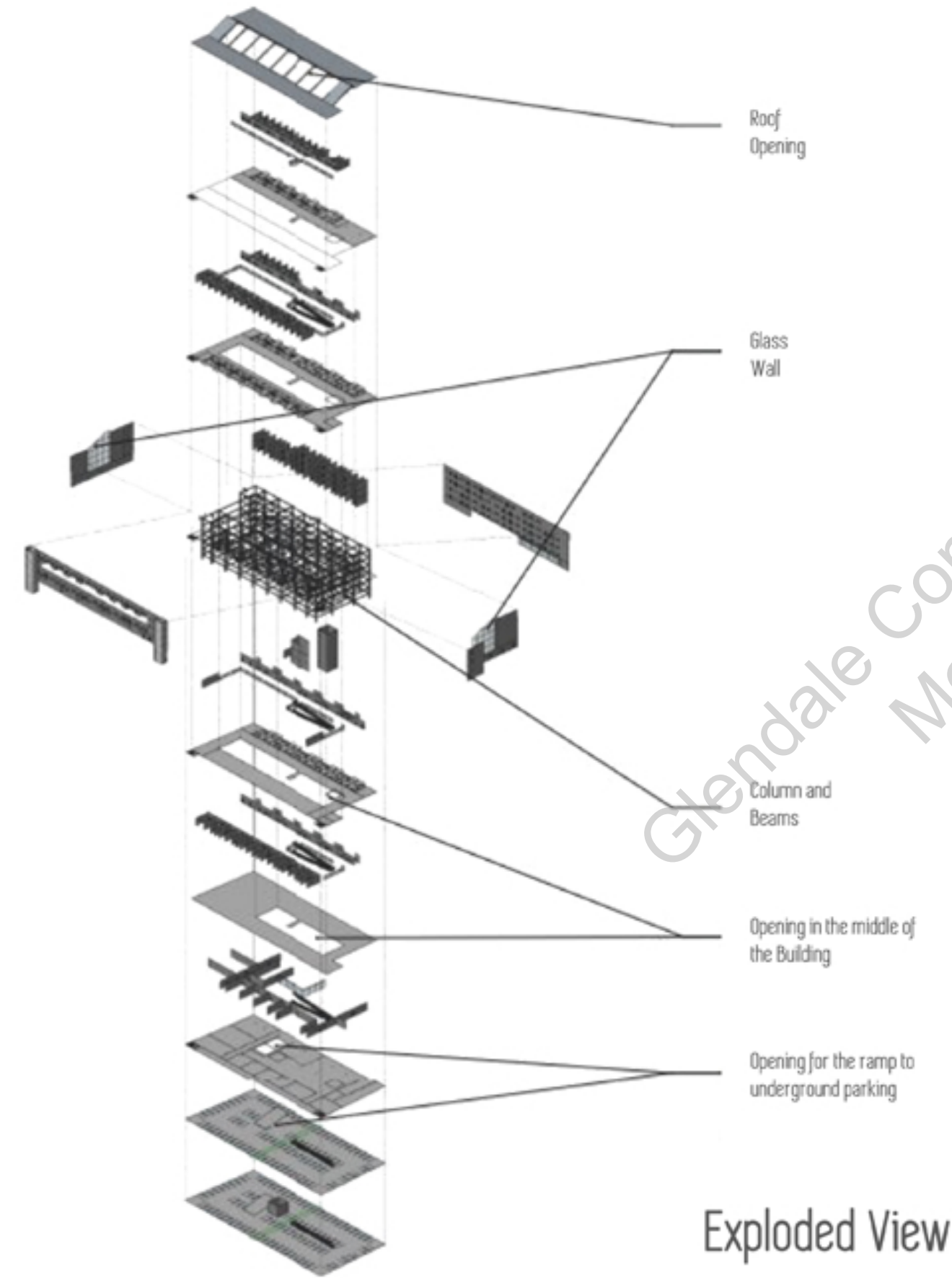
Longitudinal Section Cut Of The Building



Elevations

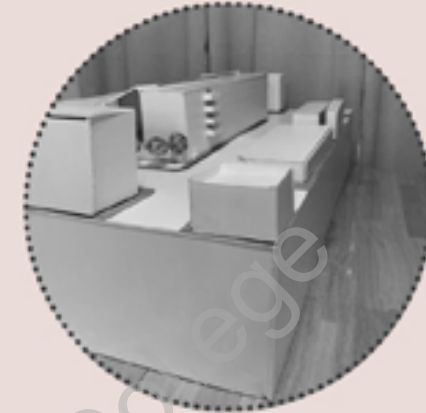


Day and Night exterior views



Exploded View

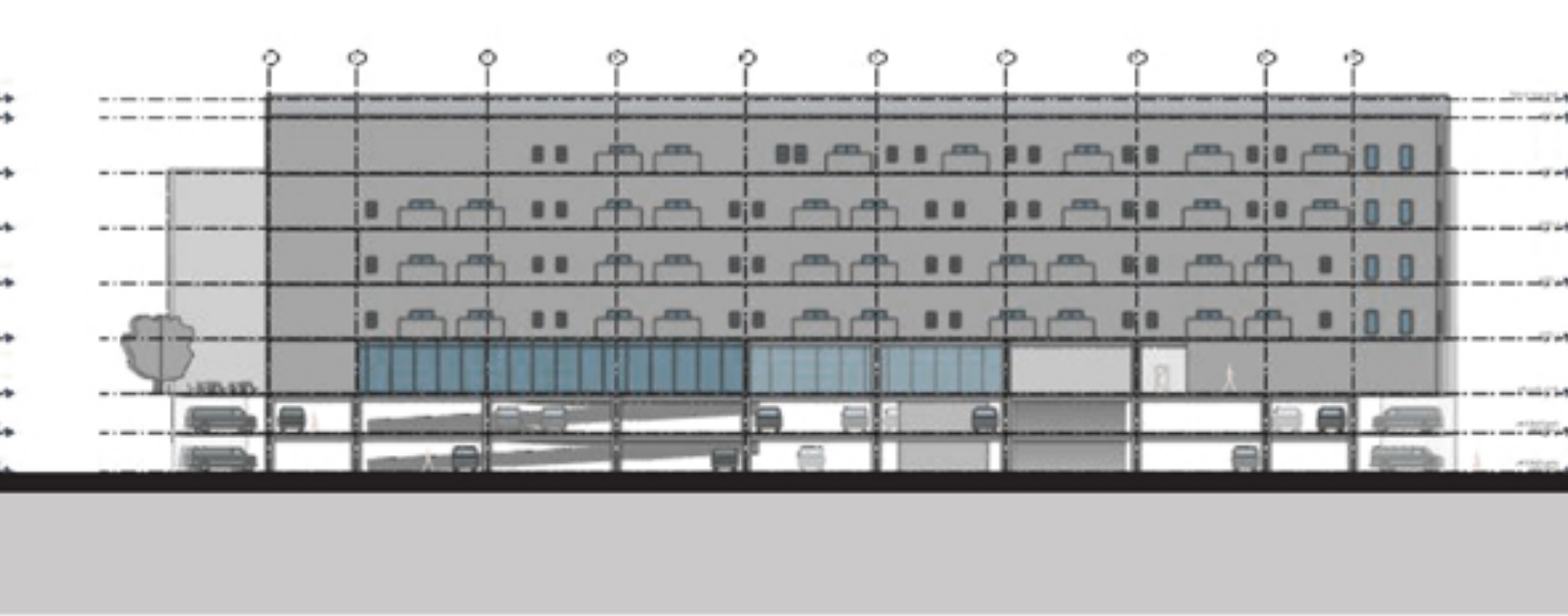
Physical Model



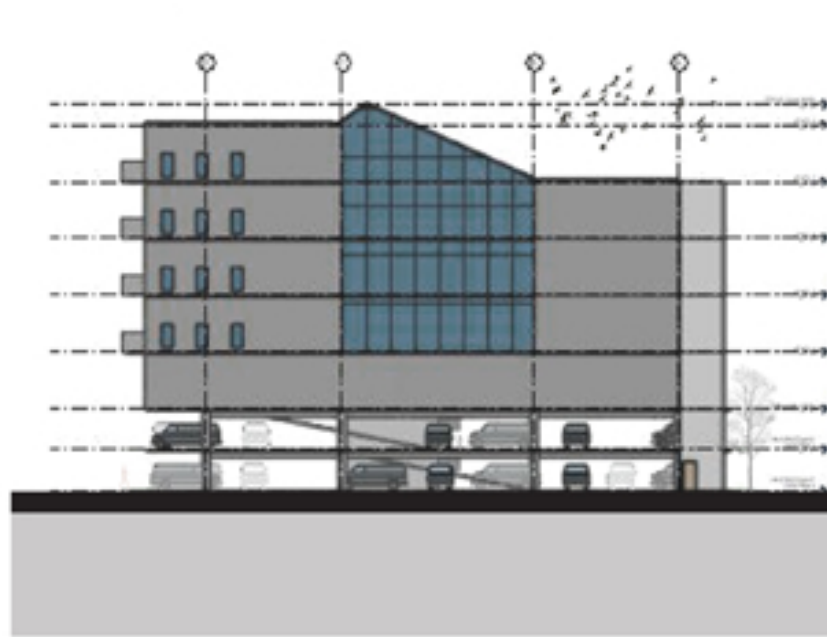
Building East Elevation



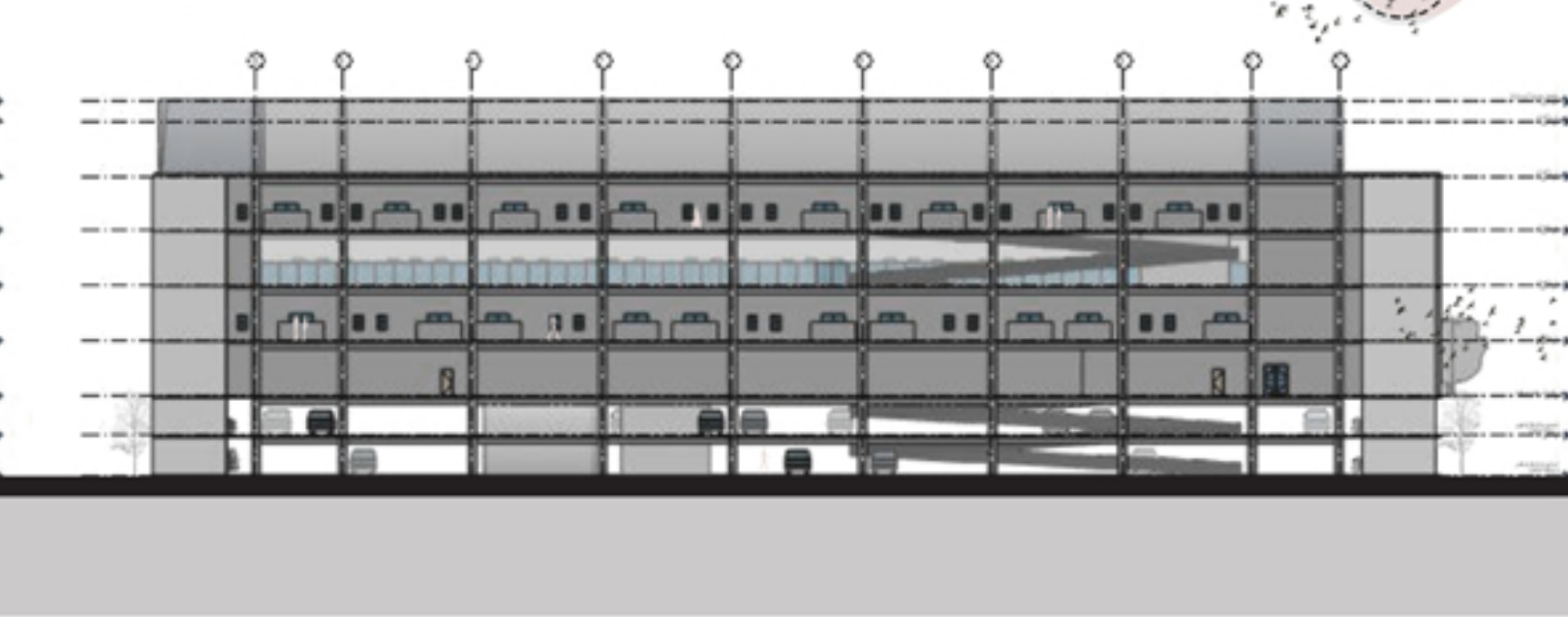
Building North Elevation



Building West Elevation



Building South Elevation





# 03

## Little Tokyo Site Commercial Development

Los Angeles, USA  
*architecture*

### Introduction

Students are asked to design and proposed a brand new commercial mix-use high rise building with circulation or program connecting to a building (Weller Court) across 2nd street. The area of the site is 98.684 SQ. FT. or 2.3 ACRE of land since 1 ACRE = 43.560 SQ. FT.

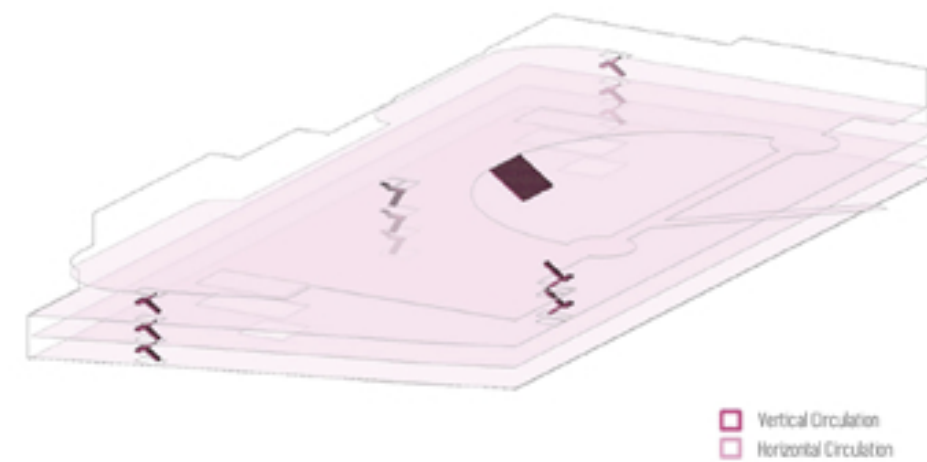
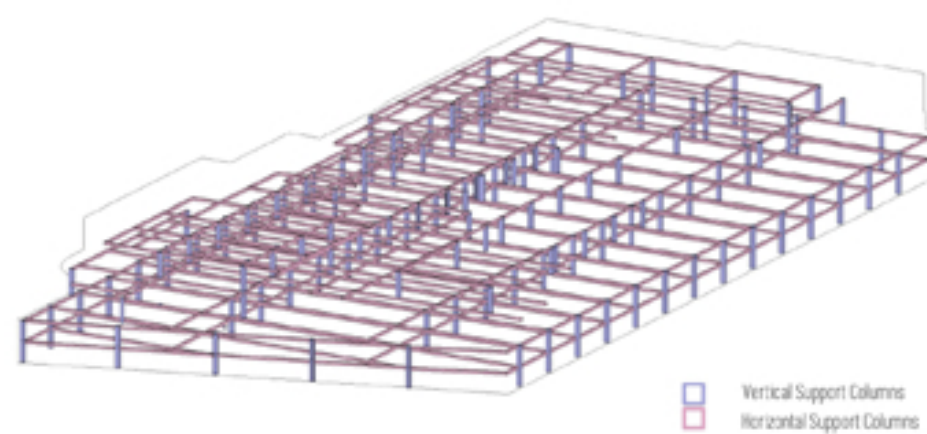
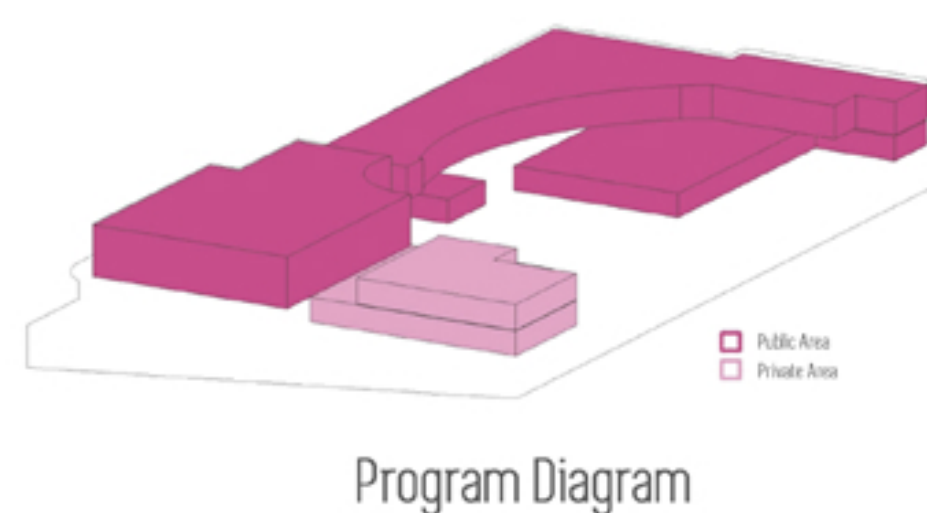
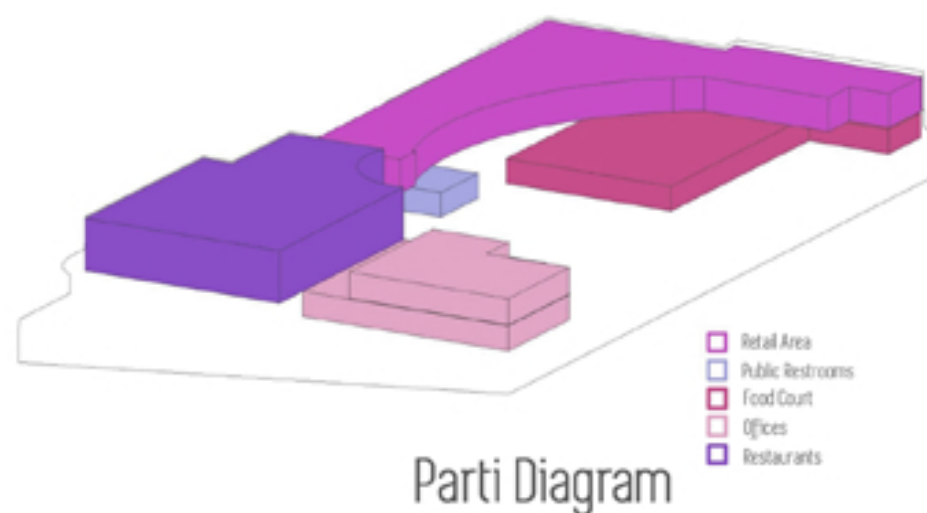
The address is 282 East Los angeles, CA. The corner of East 2nd street and San Pedro street, in Little Tokyo in Los Angeles, CA.

Program requirements are three major restaurants at 5.000 SQ. FT. each, a food court includes ten fast food at 1.000 SQ. FT. each, outdoor performance area, office spaces, and retail stores.

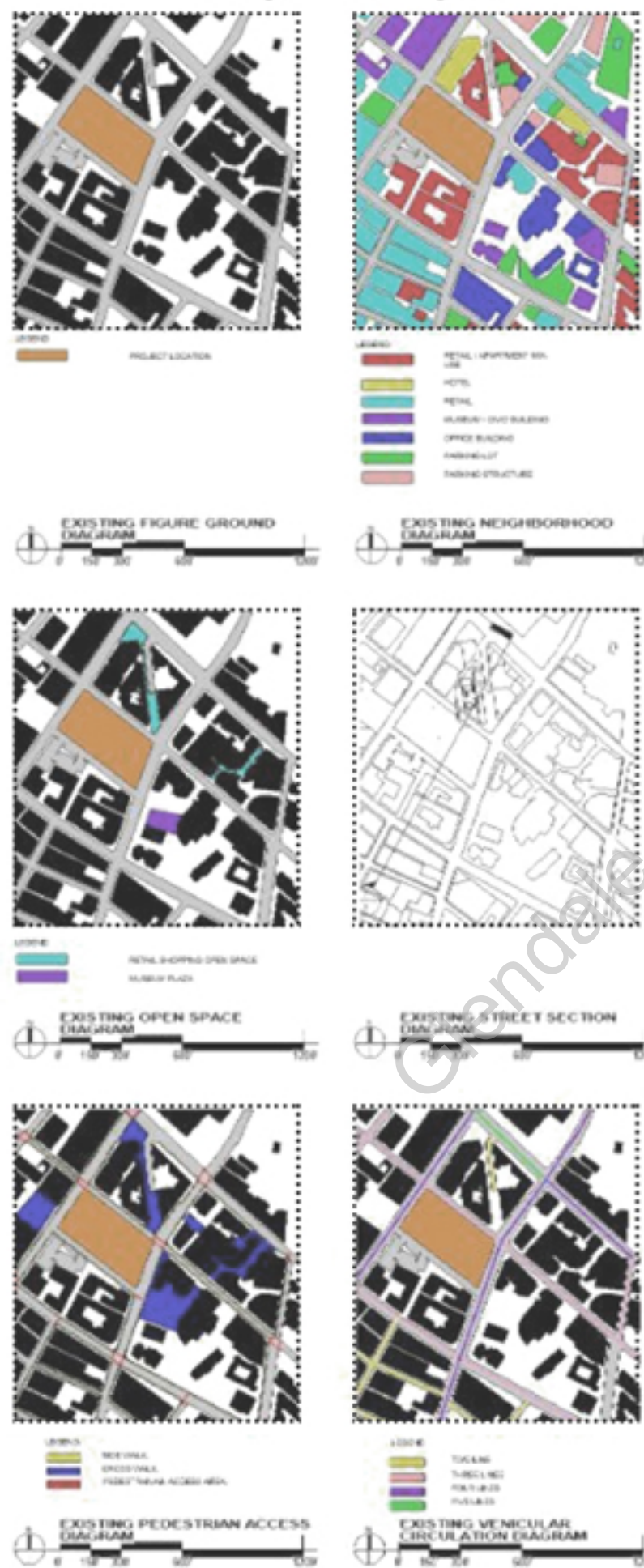


Glendale Community College  
Meghriq Zaki

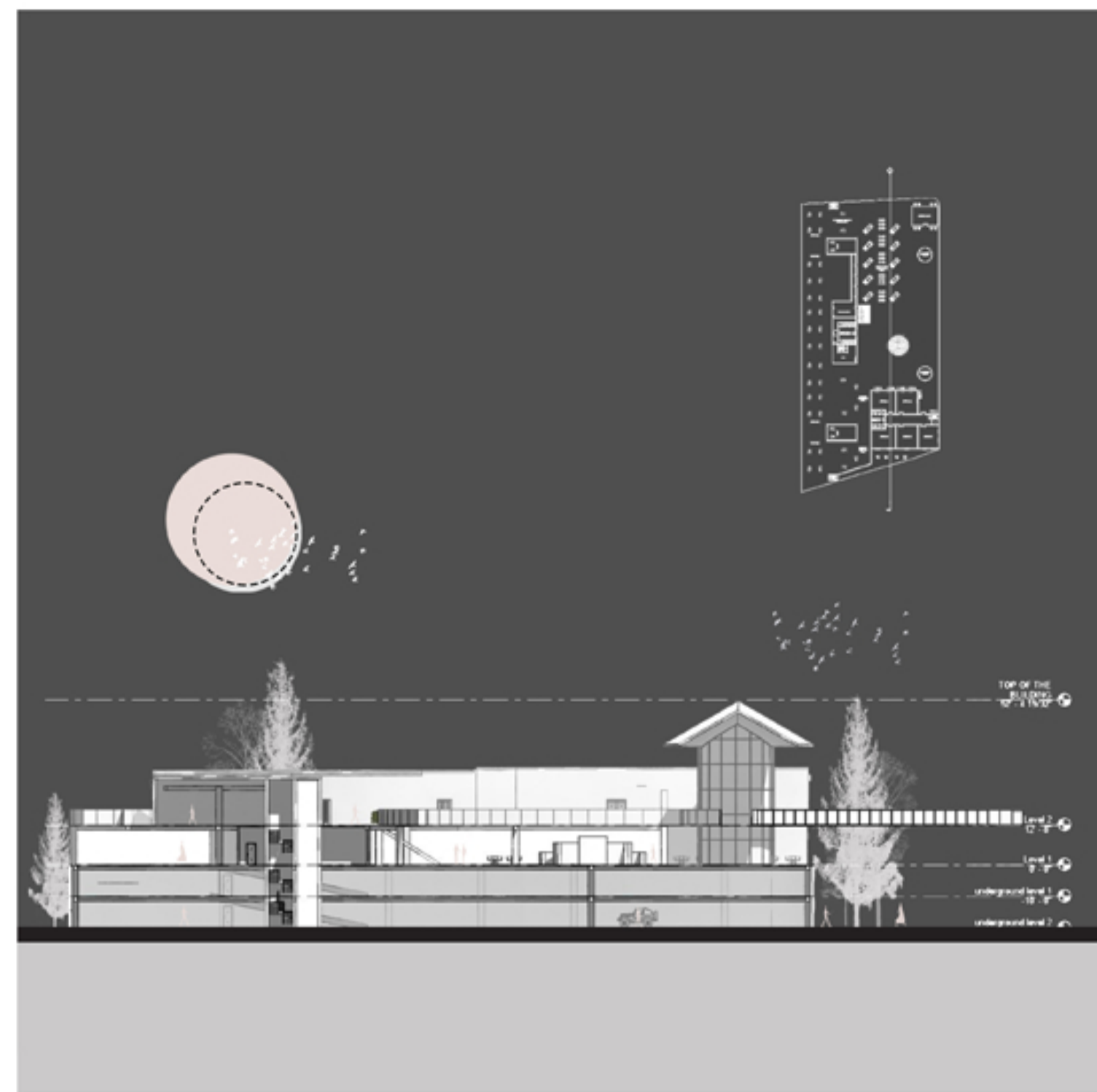
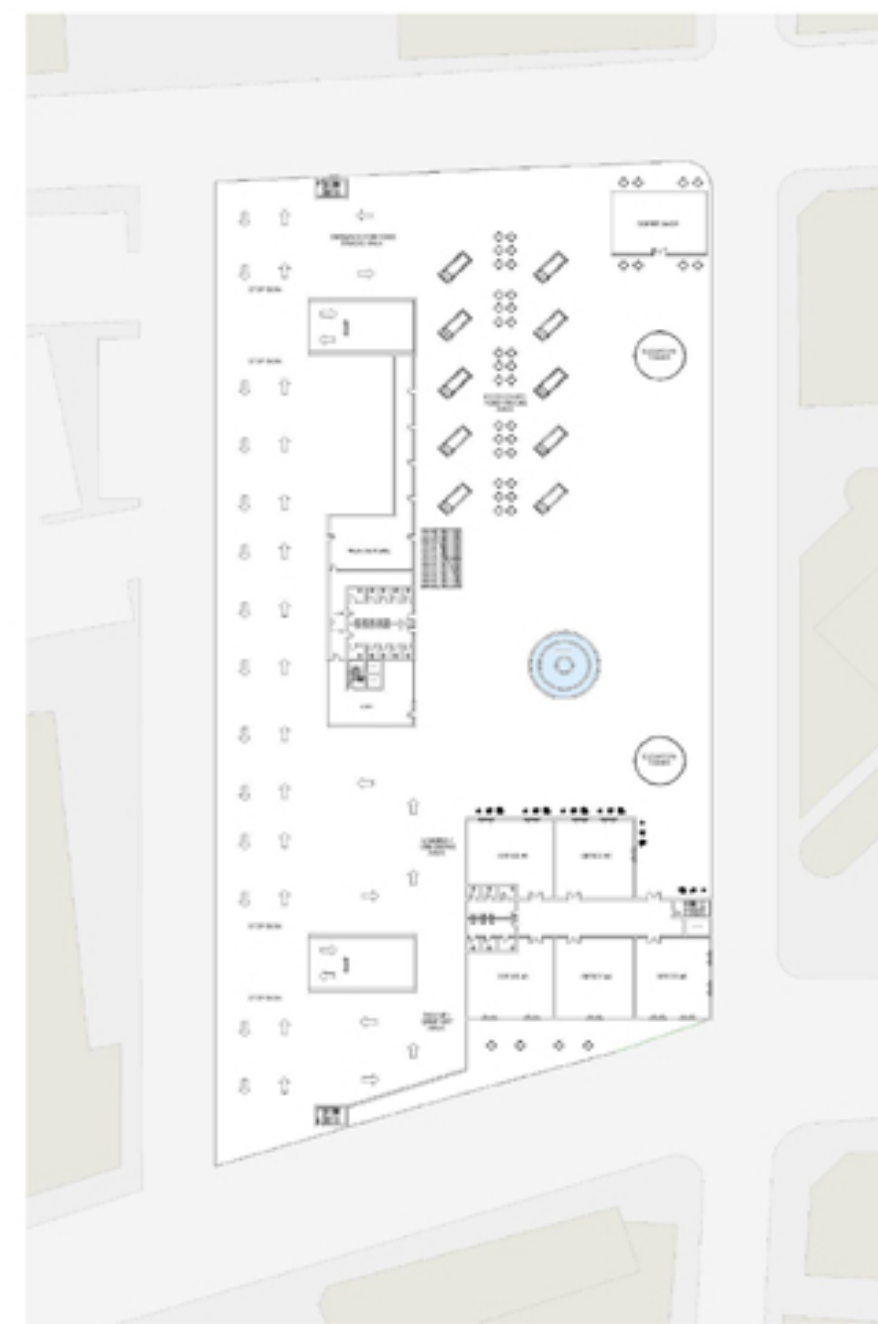
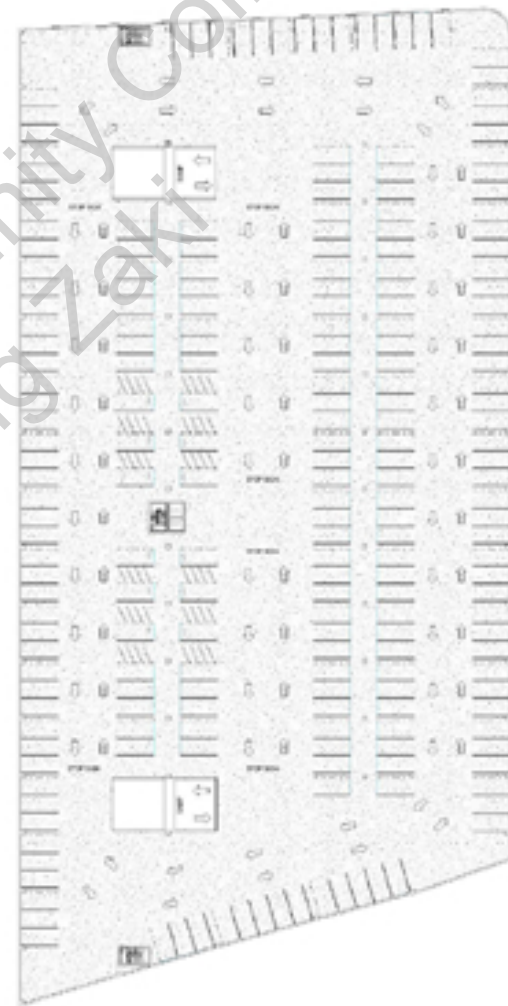
## Existing Site Conditions and Concept



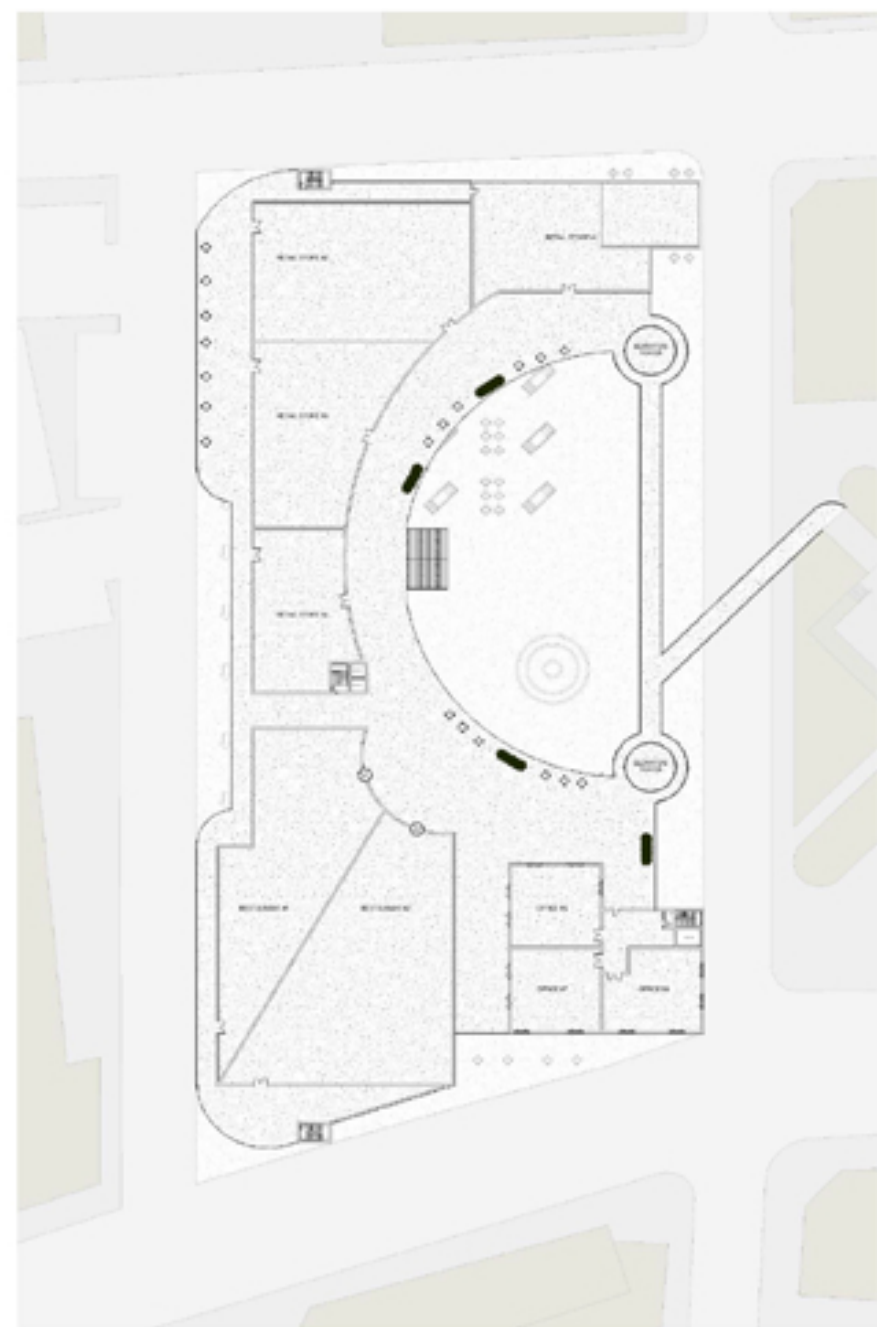
Existing Condition Diagram



## Floor Plans



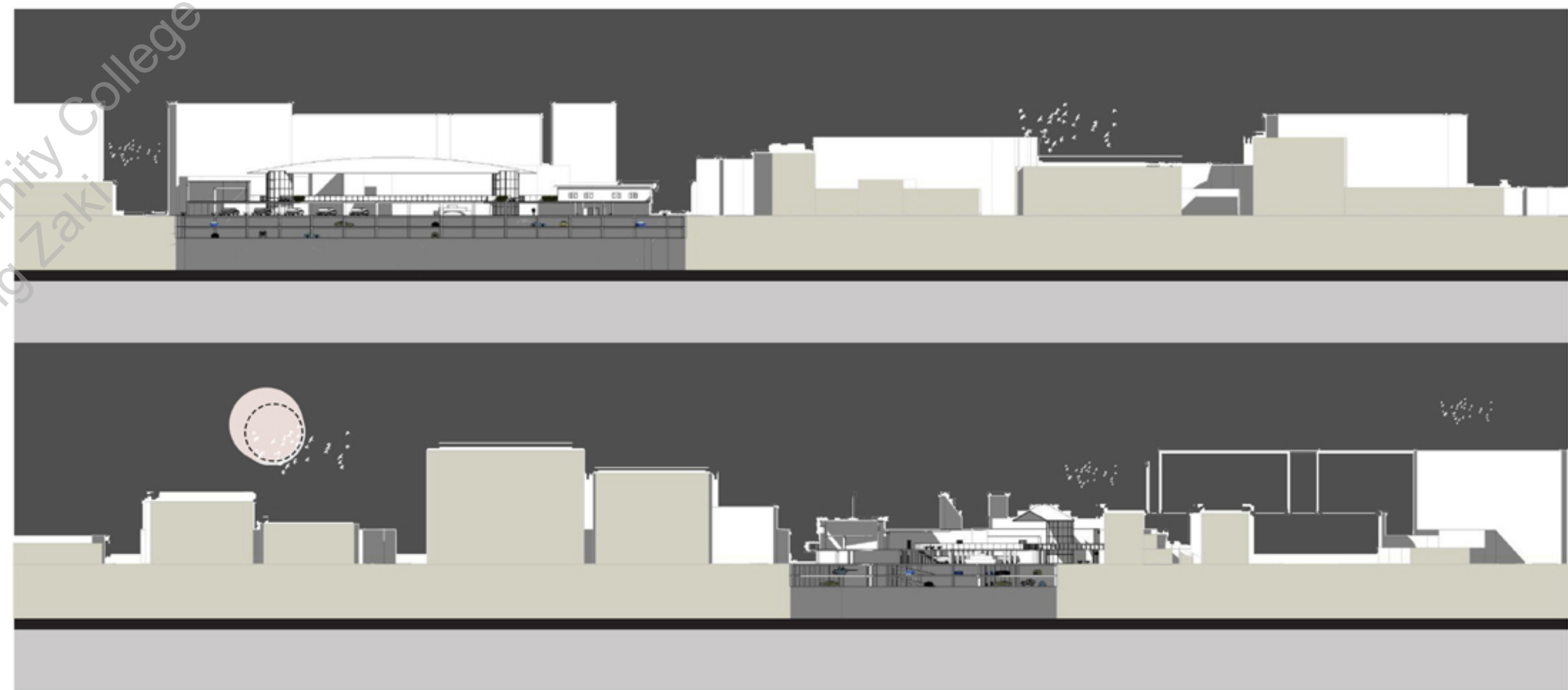
### Floor Plans

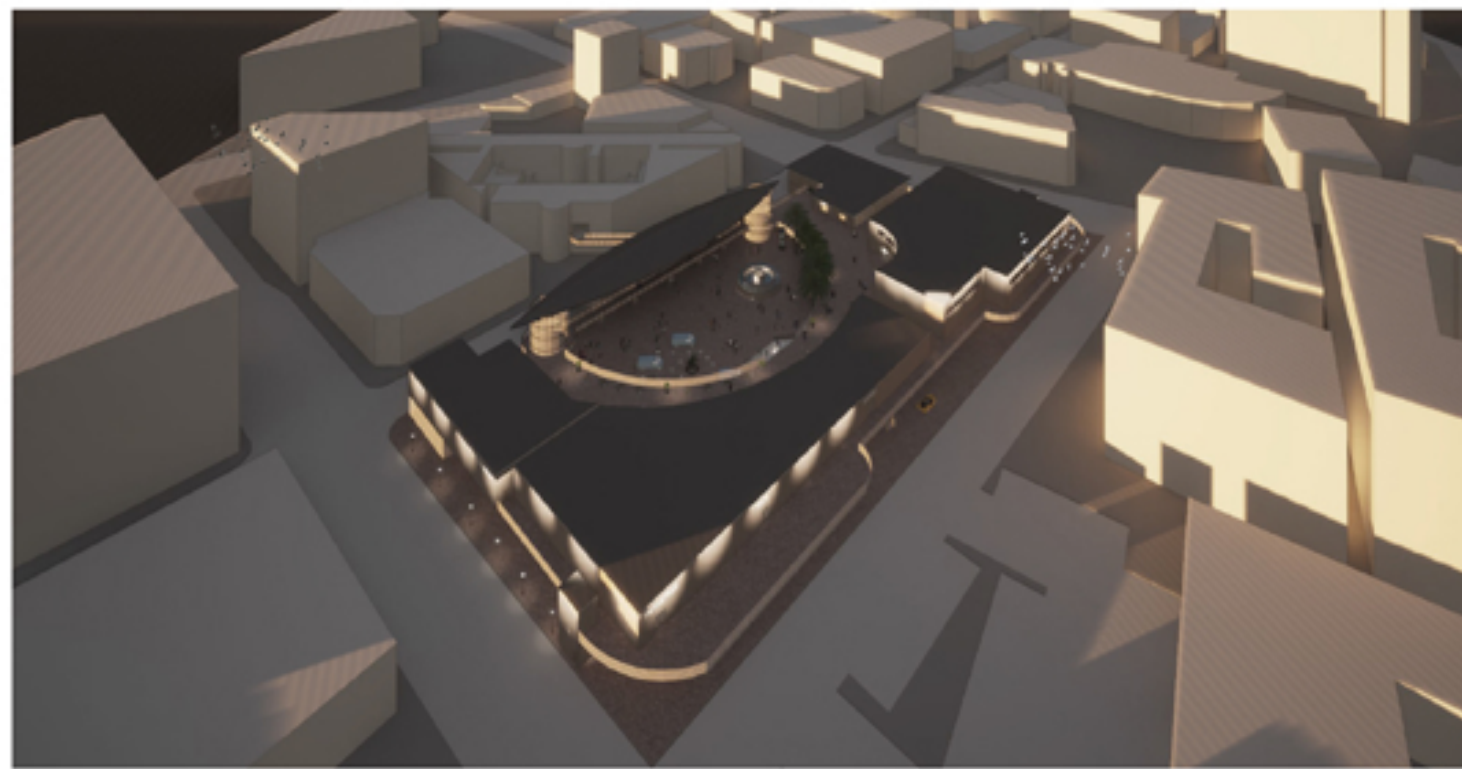


Level 2

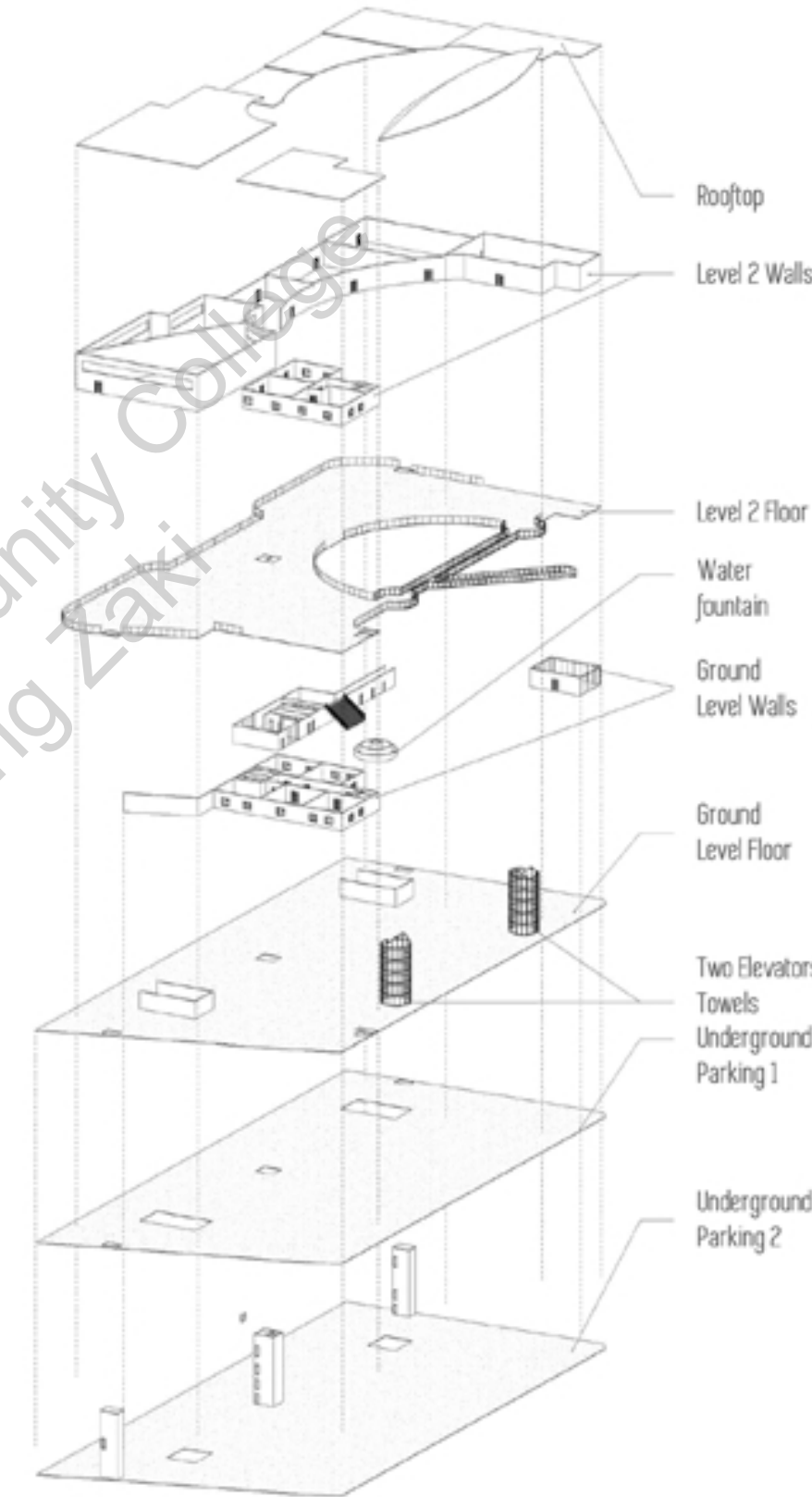


### Longitudinal Section

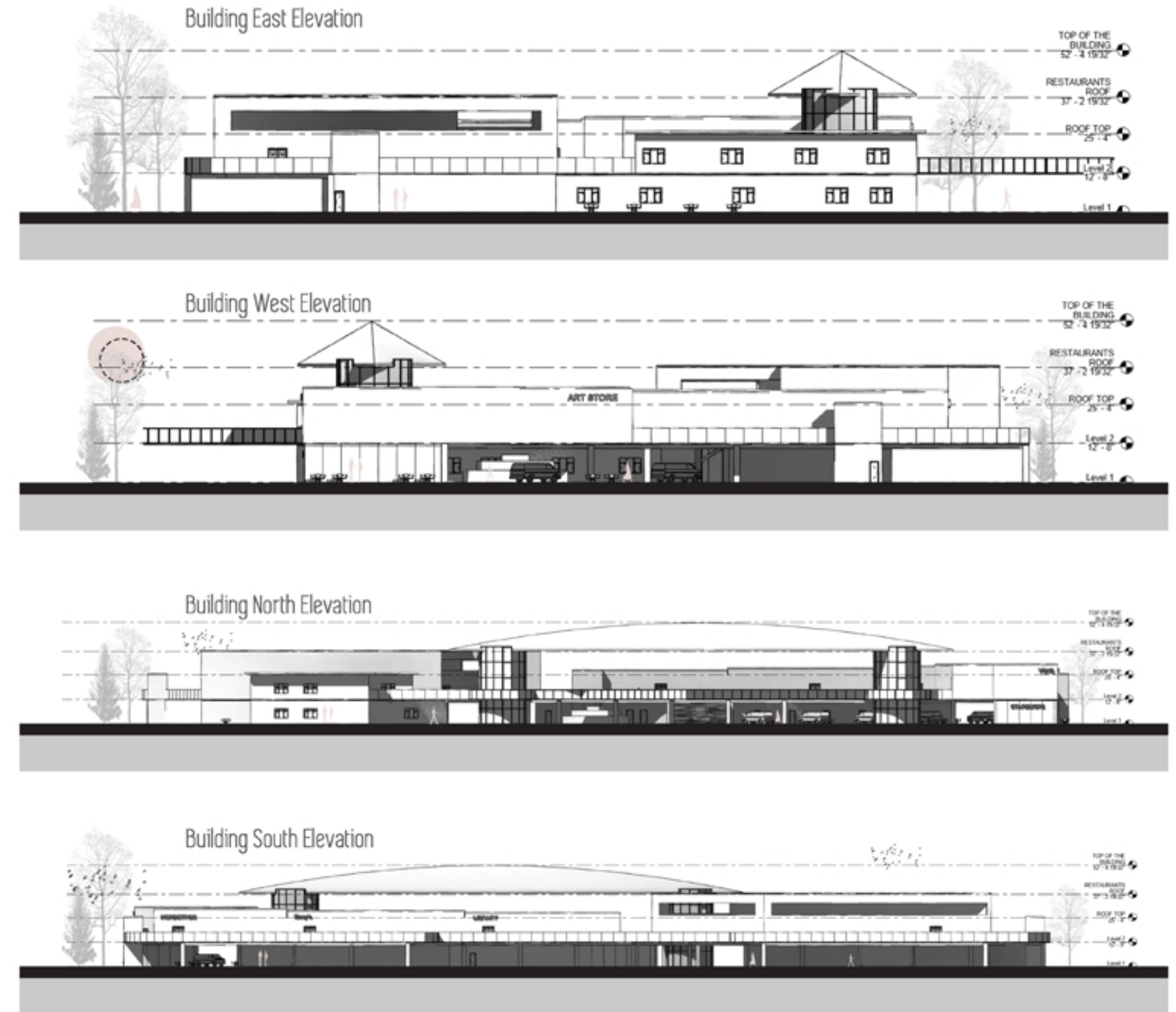




Night Views



Exploded View





04

## Design House Project Program Ellie Cole

Los Angeles, USA  
*architecture*

### Introduction

Students are given a list of Paralympic athletes [Rising Phoenix] as clients and the goal is to design a custom 3 bedrooms house to fit into their character. The architectural design of these houses imitates the notion and the gesture of what these clients do in their sports and their special needs. As the result, these houses are the extension of their passion and beliefs. The House implies the spirit of the client.

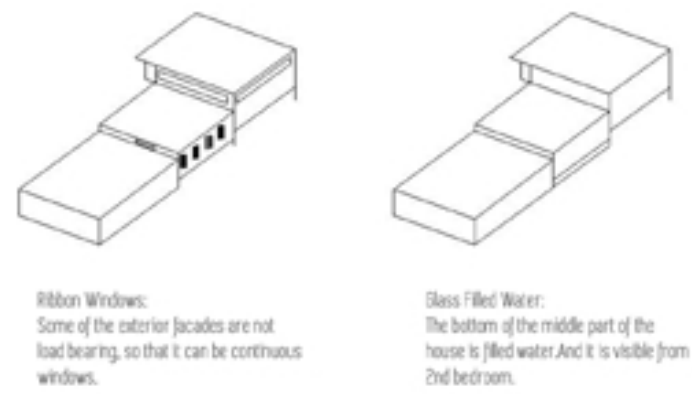
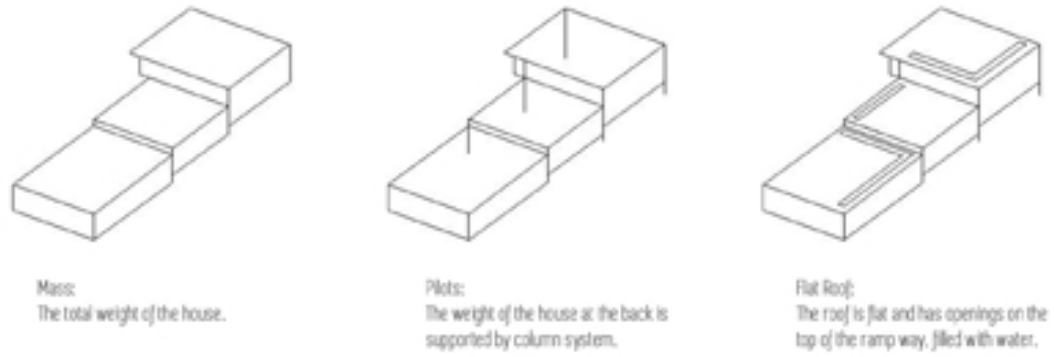
The address of the site is 708 E. Palmer Avenue, Glendale, CA

This house is designed for Ellie Victoria Cole, she is an Australian Paralympic swimmer. After having her leg amputated due to cancer, she trained in swimming as part of her rehabilitation program and progressed more rapidly than instructors had predicted. Cole became Australia's most decorated female Paralympian with six gold, five silver and six bronze medals from four Paralympic Games.

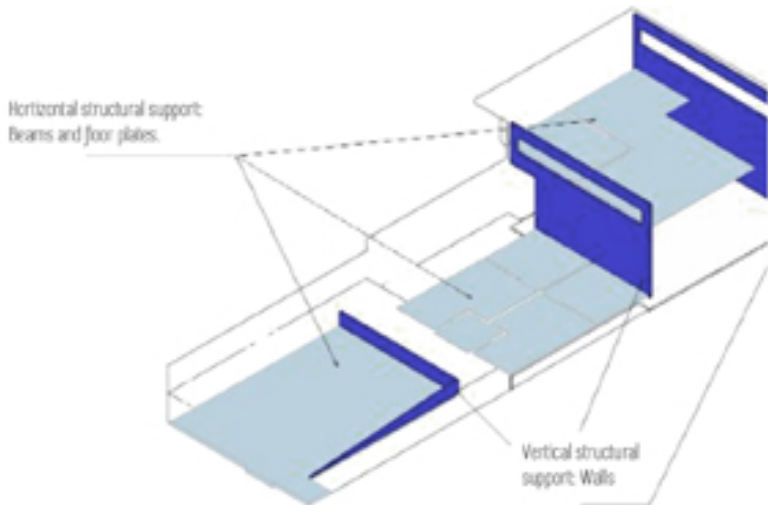


Glendale Community College  
Meghrig Zaki

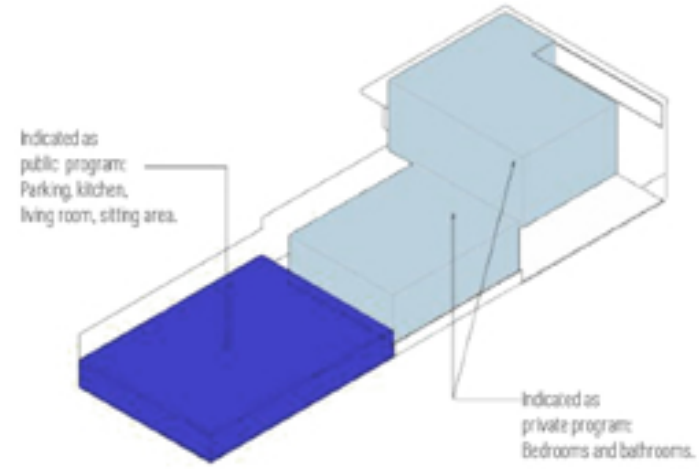
### Existing Site Conditions and Concept



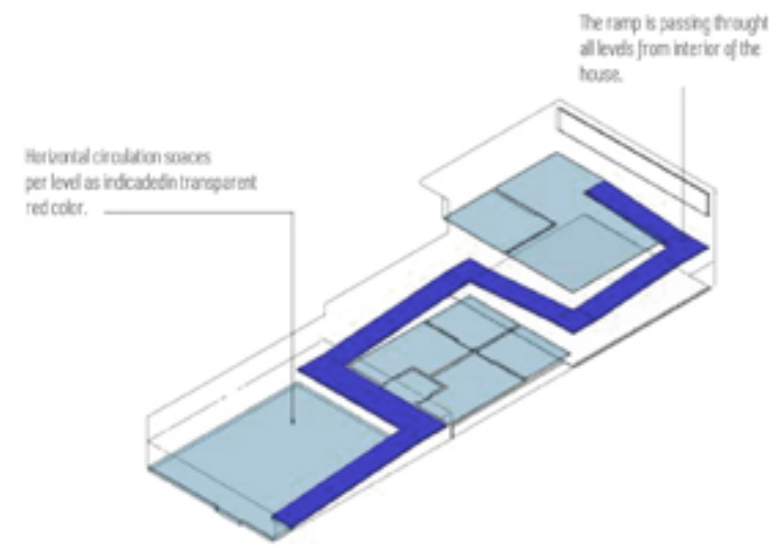
### Parti Diagram



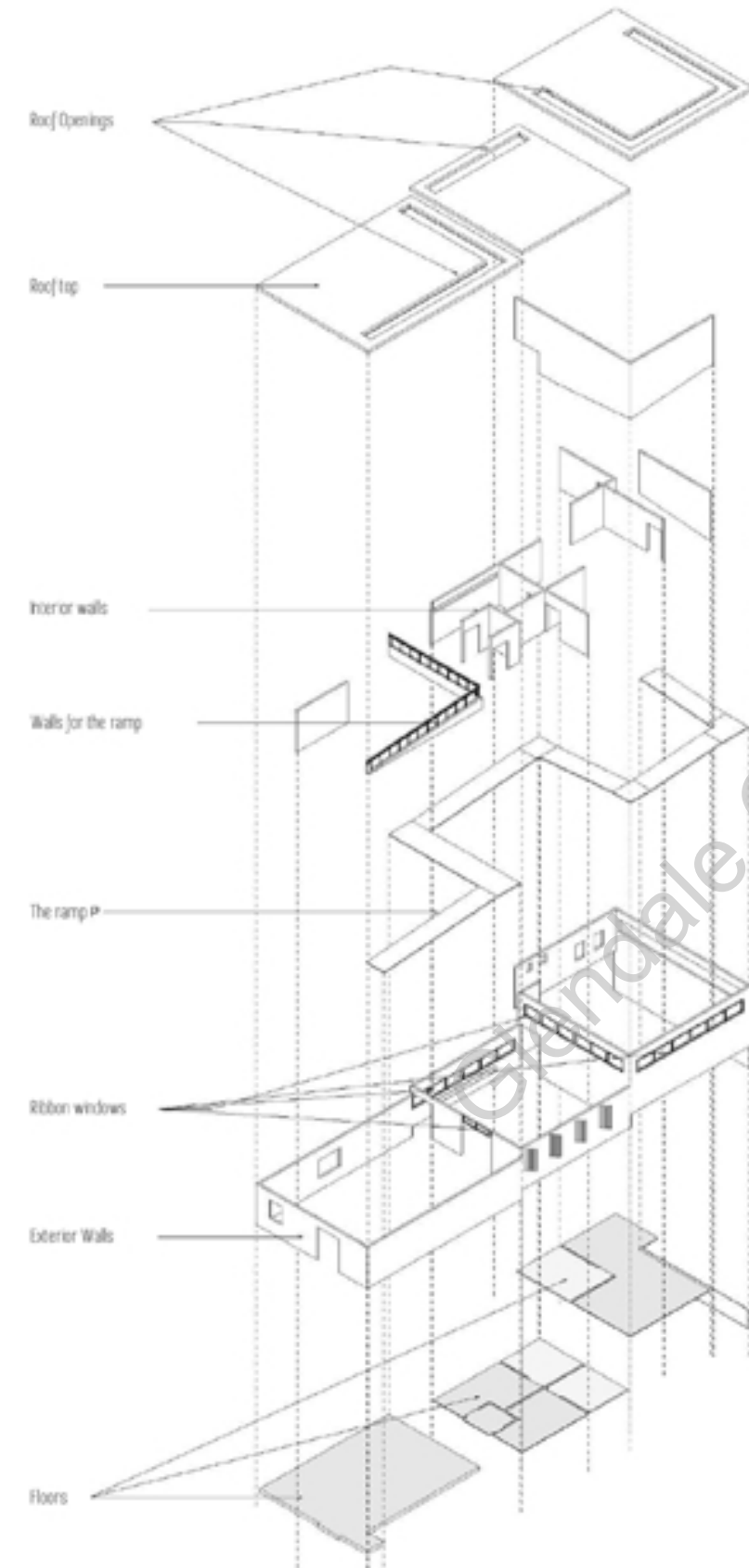
### Structural Diagram



### Program Diagram



### Circulation Diagram



### Exploded view

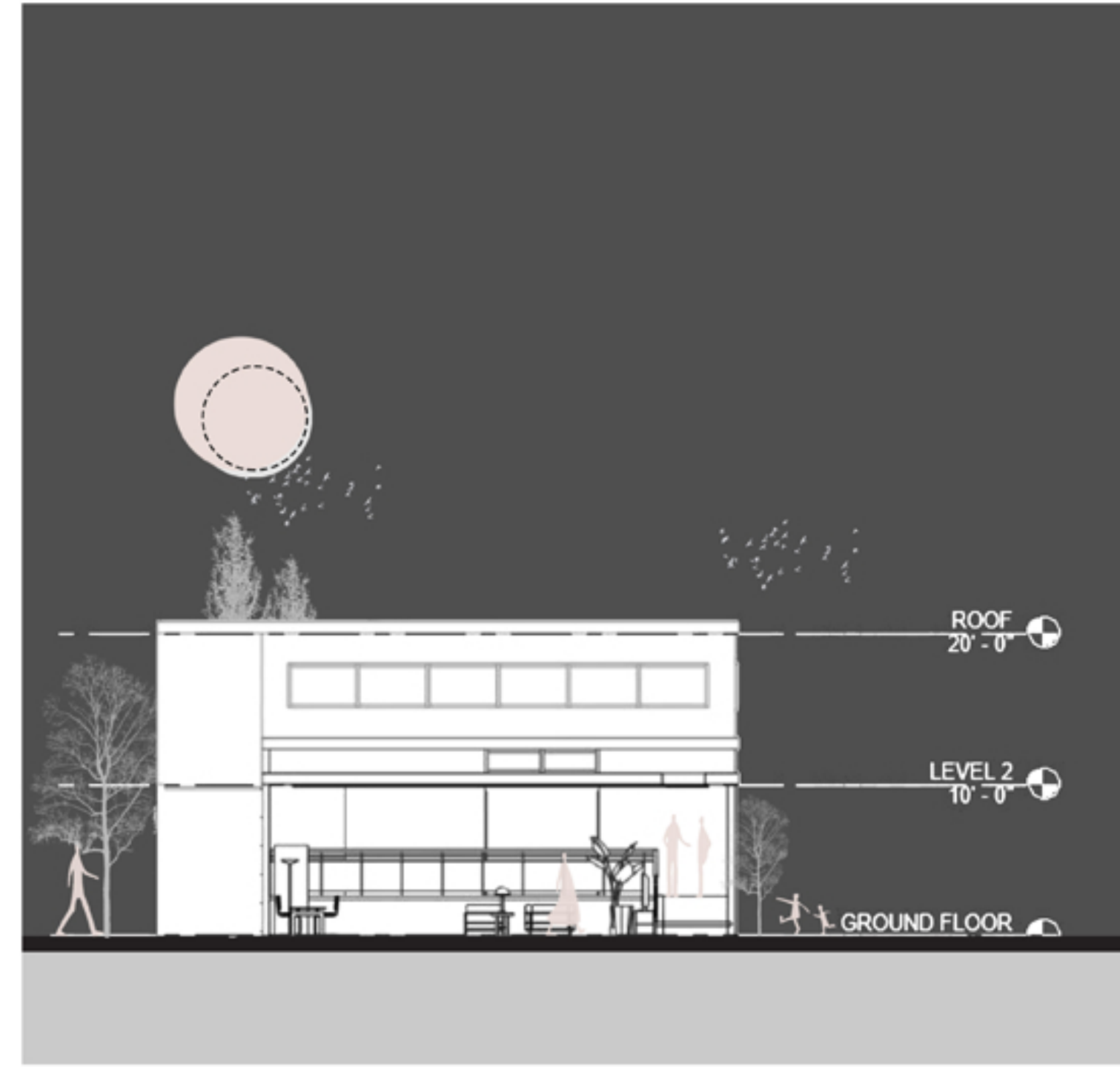
### Floor Plans



Ground Floor

Level 1

Level 2

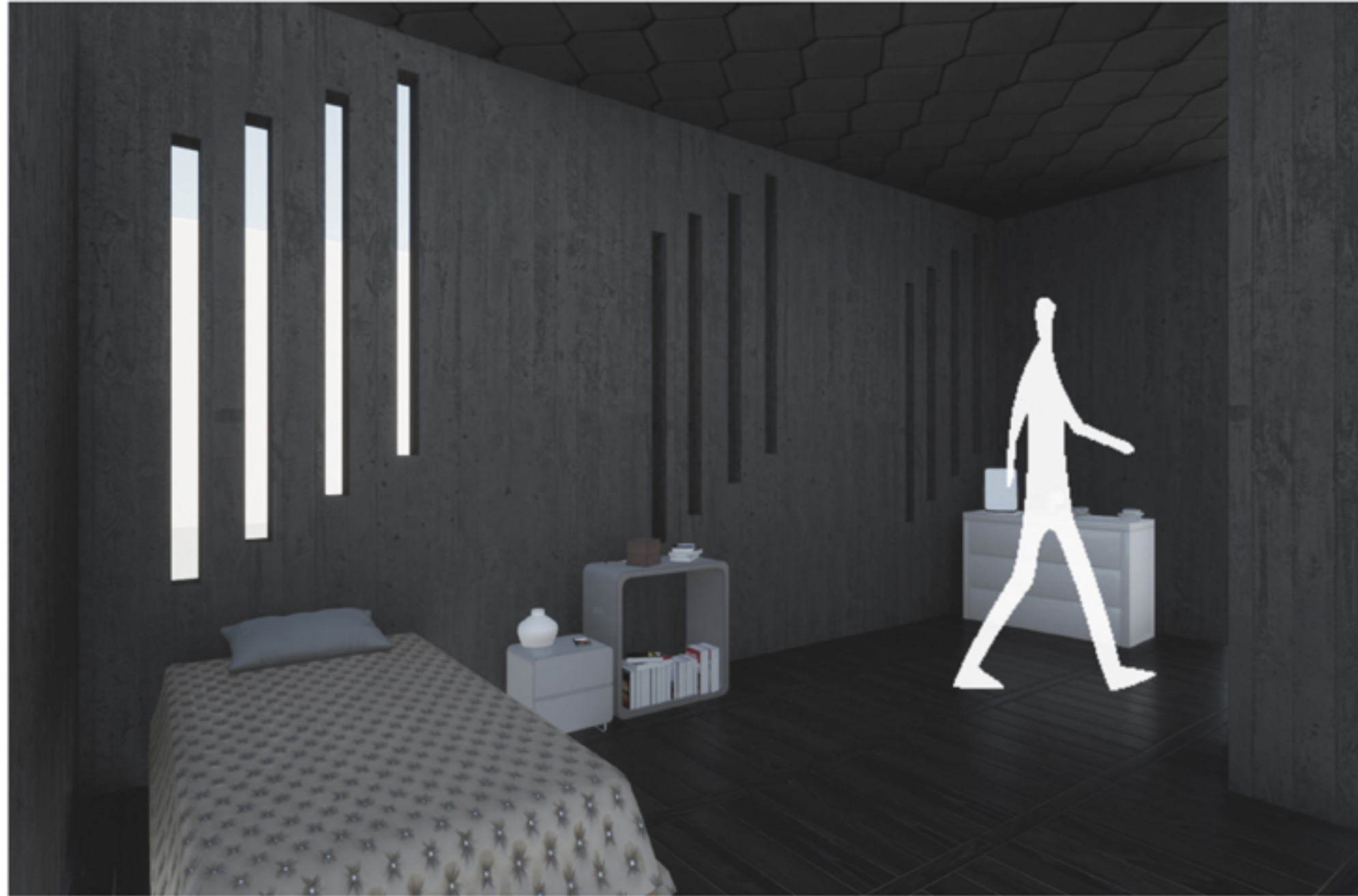


Short Section

- This bedroom represents the beginning of her unhappy and unusual childhood. Her hard times battling the cancer.

- The cut lighting represents her amputation.

- The dark room represents the sad memories.



Bedroom 1

- This bedroom represents Ellie's teenage life when she started training in swimming.

- The openings on the wall is for the natural lighting.
- The blue walls represent the hope that she had after the pain and the sad memories.

- The floor is transparent glass which is filled with water.



Bedroom 2

- This bedroom represents Ellie's success.

- The openings on the wall are for natural lighting and to see the beautiful view of LA.

- The bright colors in the room represent her happy and successful life after all the pain and the hard times that she went through.



Bedroom 3



Longitudinal Section

- Her bedrooms tell the story of her life and what she has gone through.
- Three bedrooms in her two story house to represent the three different stages of her life.

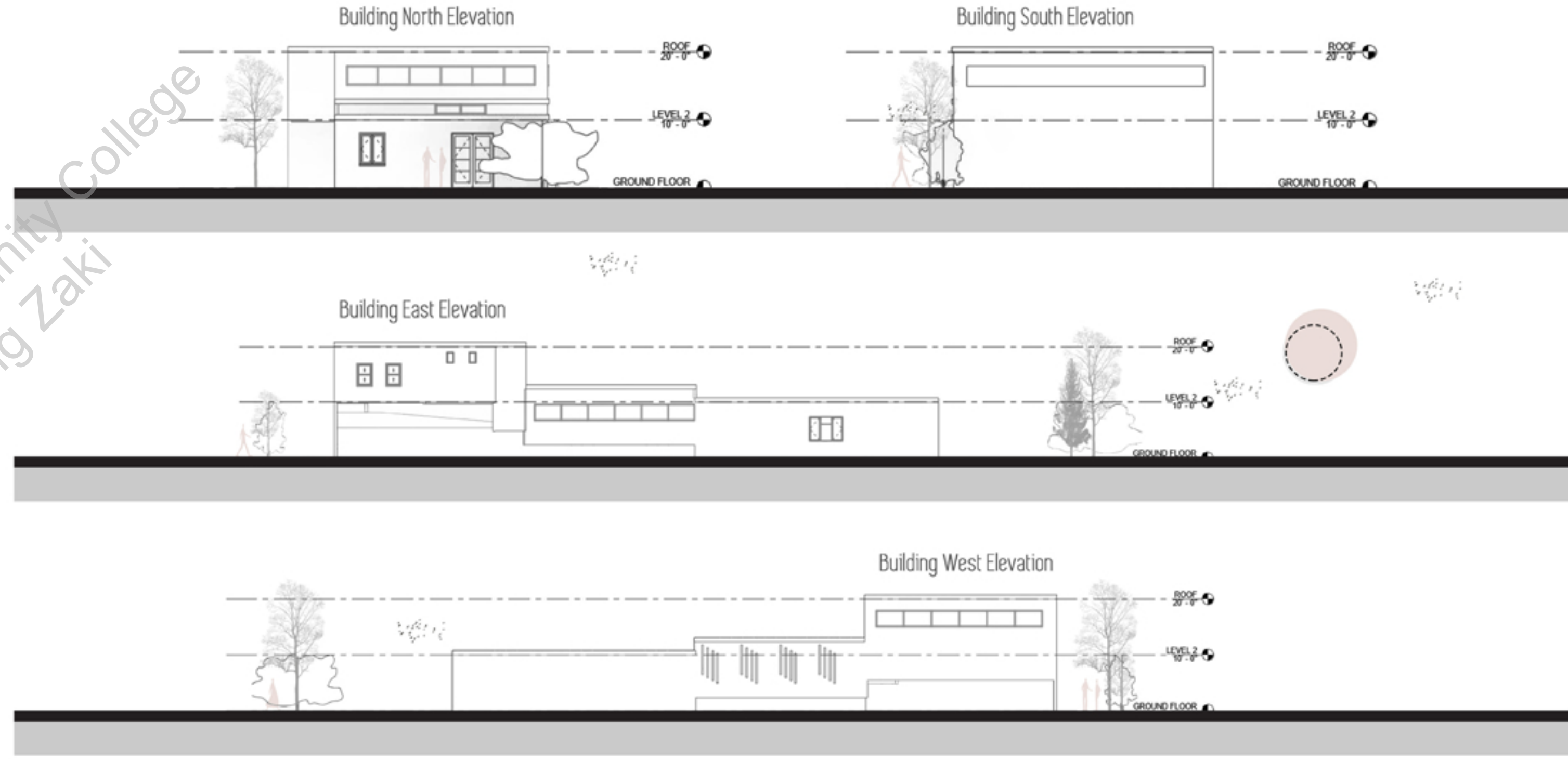
- All the house is wheelchair accessible.
- The ramps represents her life journey that she has gone through.

- The ramps go from the lower level to the upper level.





Day and Night Views



# 05

## Villa Savoye Case Study Project

By Le Corbusier  
*architecture*

### Introduction

**The architect.**

Swiss-born, Charles-Édouard Jeanneret (1887-1965), known as Le Corbusier, was part of the Parisian avant-garde. He was a founding member of the International Congress on Modern Architecture (or CIAM), launched in 1928.

**An iconic building.**

This weekend retreat is the last in Le Corbusier's white villa cycle and perfectly encapsulates the Modernist architectural vocabulary. Abandoned, it was restored by the French state from 1963 to 1997. It was listed as a historic monument in 1964 when Le Corbusier was still alive, an extraordinarily rare occurrence.

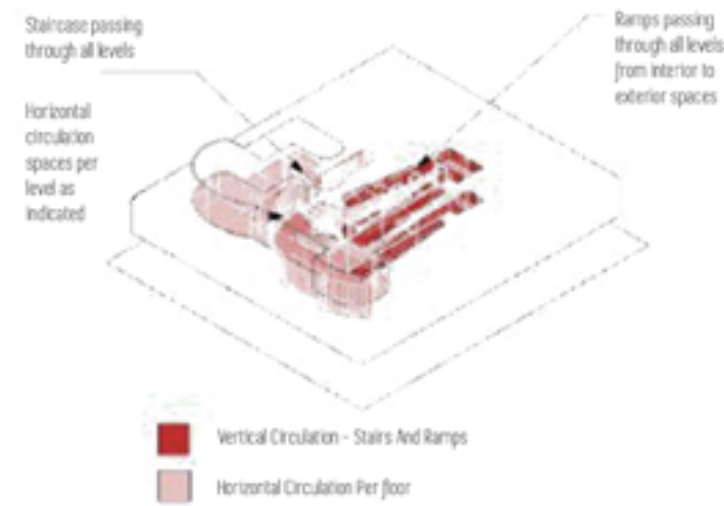
**The five points of a new architecture.**

Formulated by Le Corbusier in 1927 as the fundamental principles of the Modern movement, the five points advocate reinforced concrete for constructing the pilotis, roof garden, open plan design, horizontal windows and free design of the façade - all applied in the design of the Villa Savoye.



## Existing Site Conditions and Concept

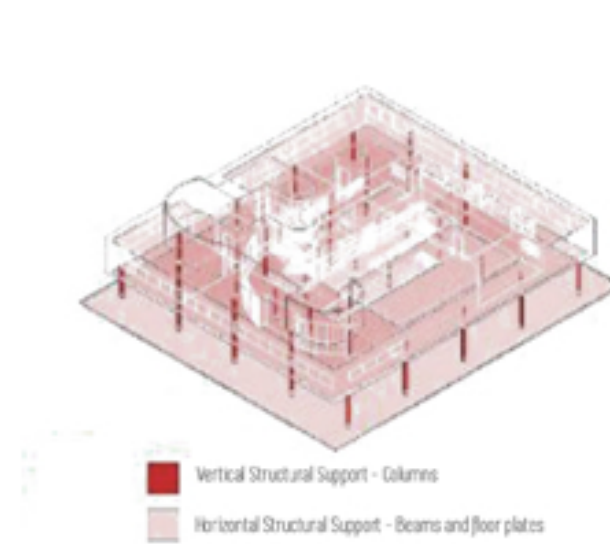
### Circulation Diagram



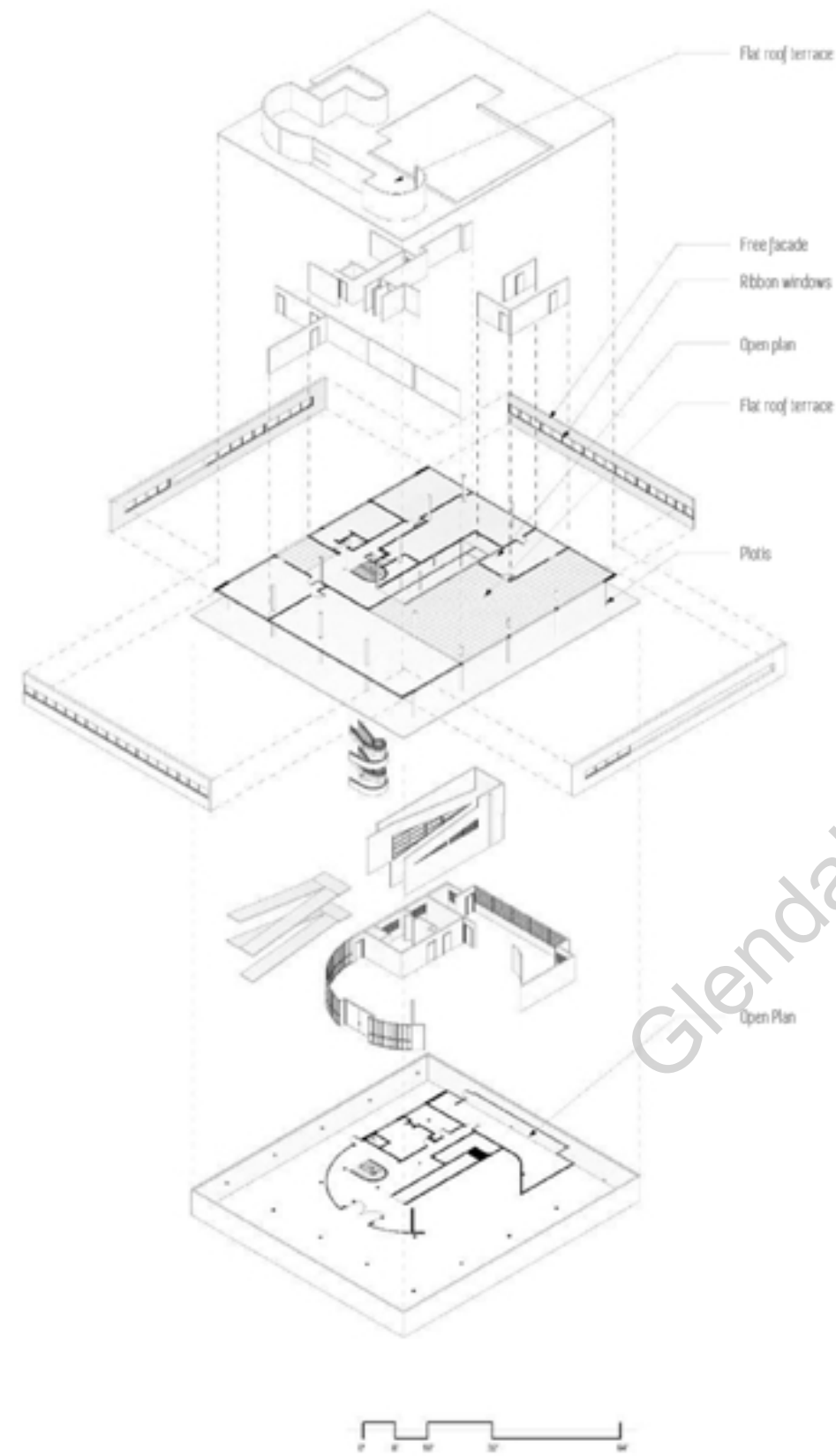
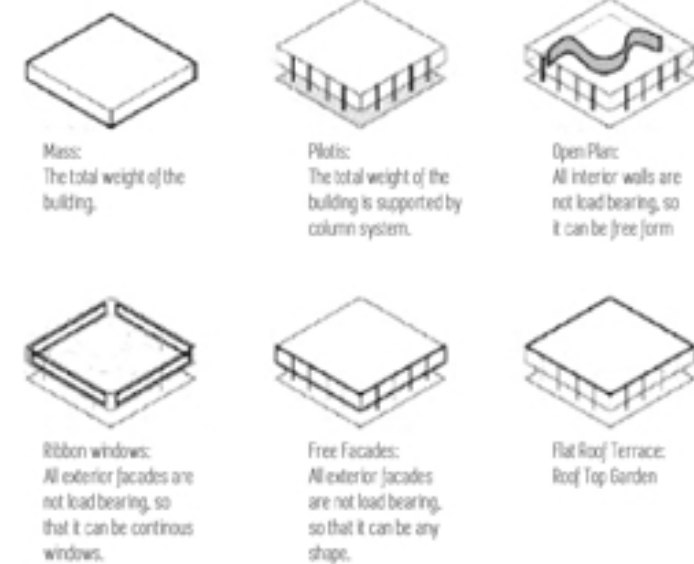
### Program Diagram



### Structural Diagram

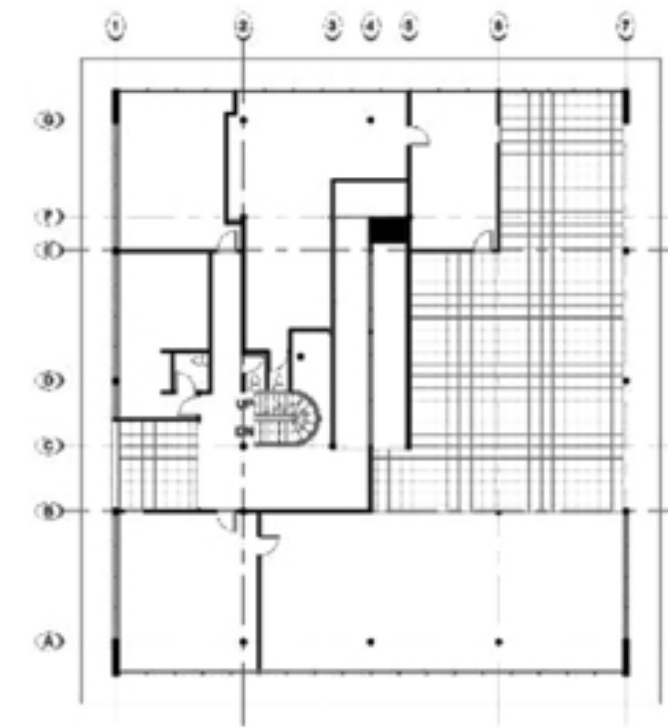
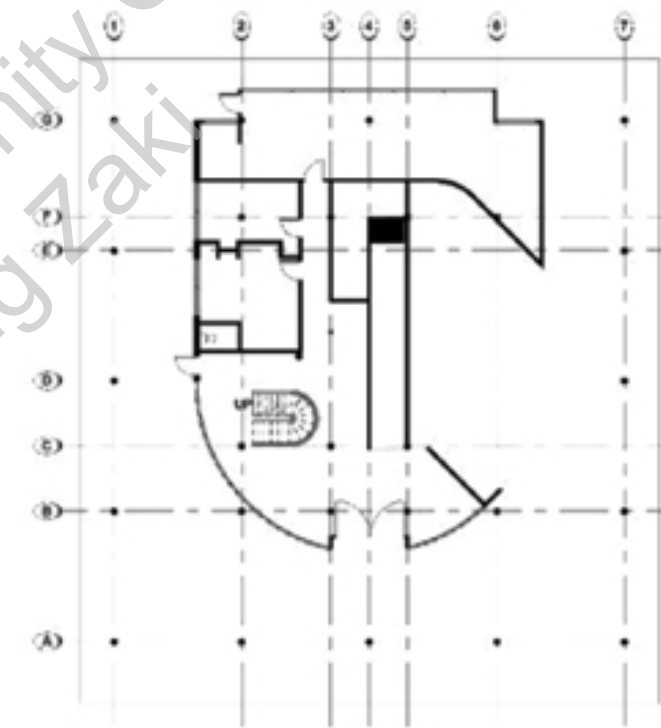


### Parti Diagram



Exploded view

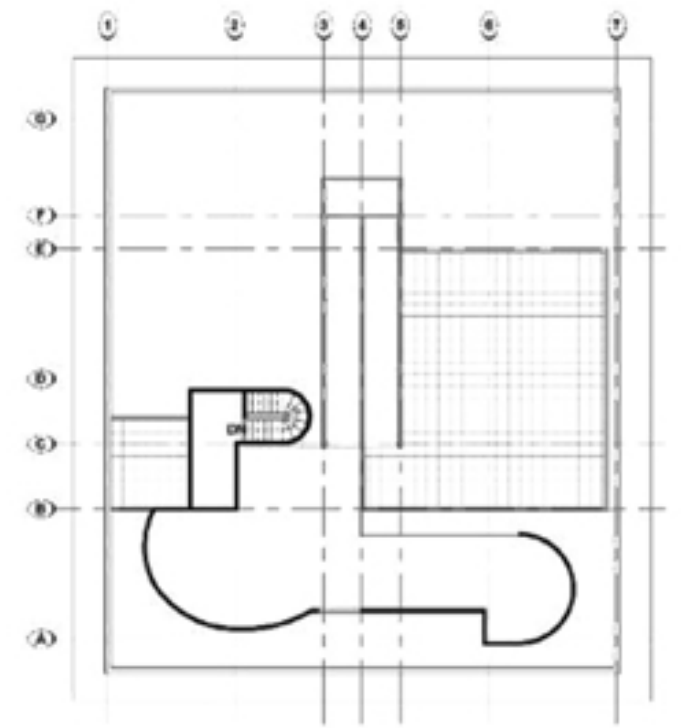
## Floor Plans



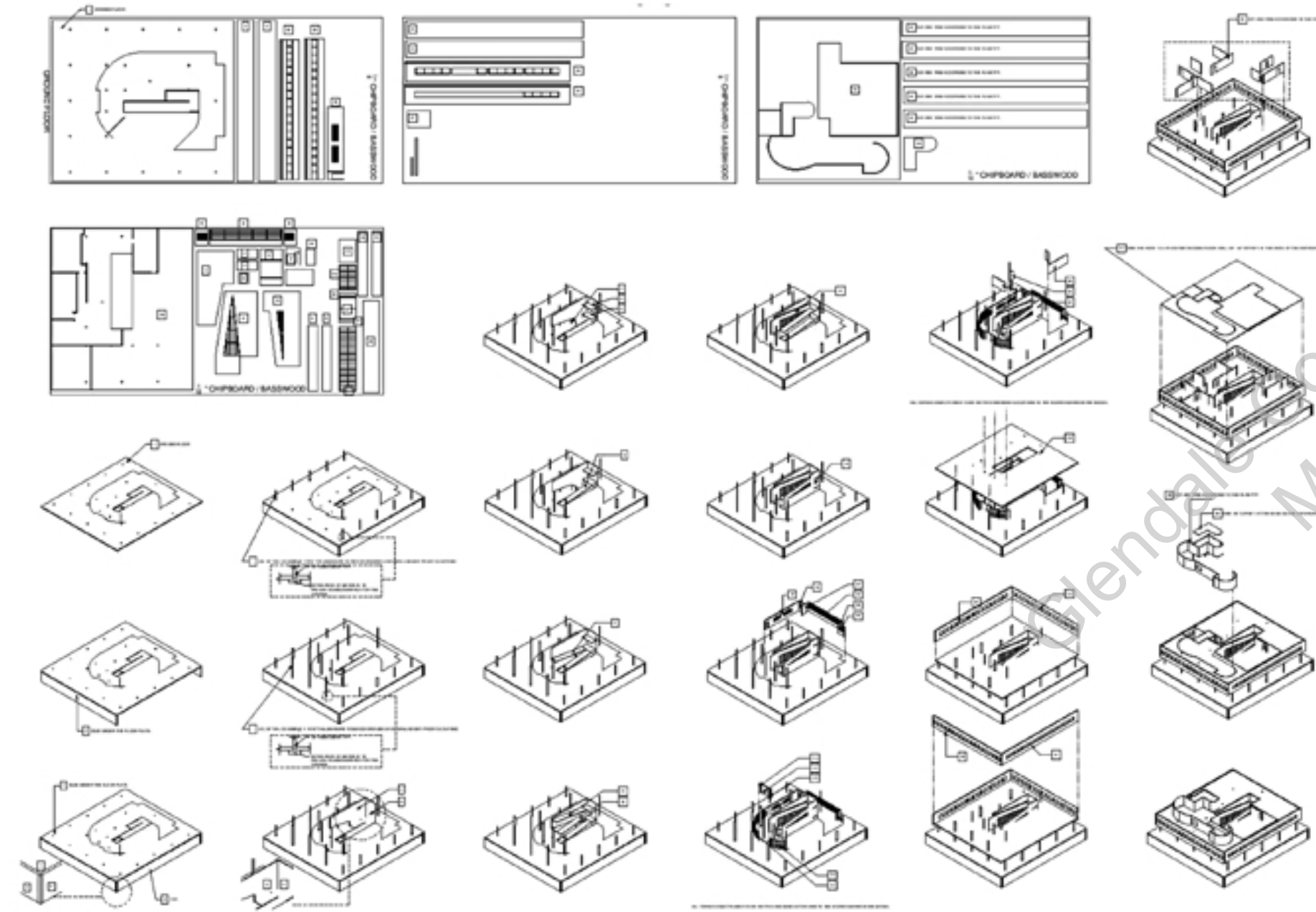
Section

Glendale Community College  
Meghriq Zaki

# Floor Plans and Construction Manual



Roof Garden



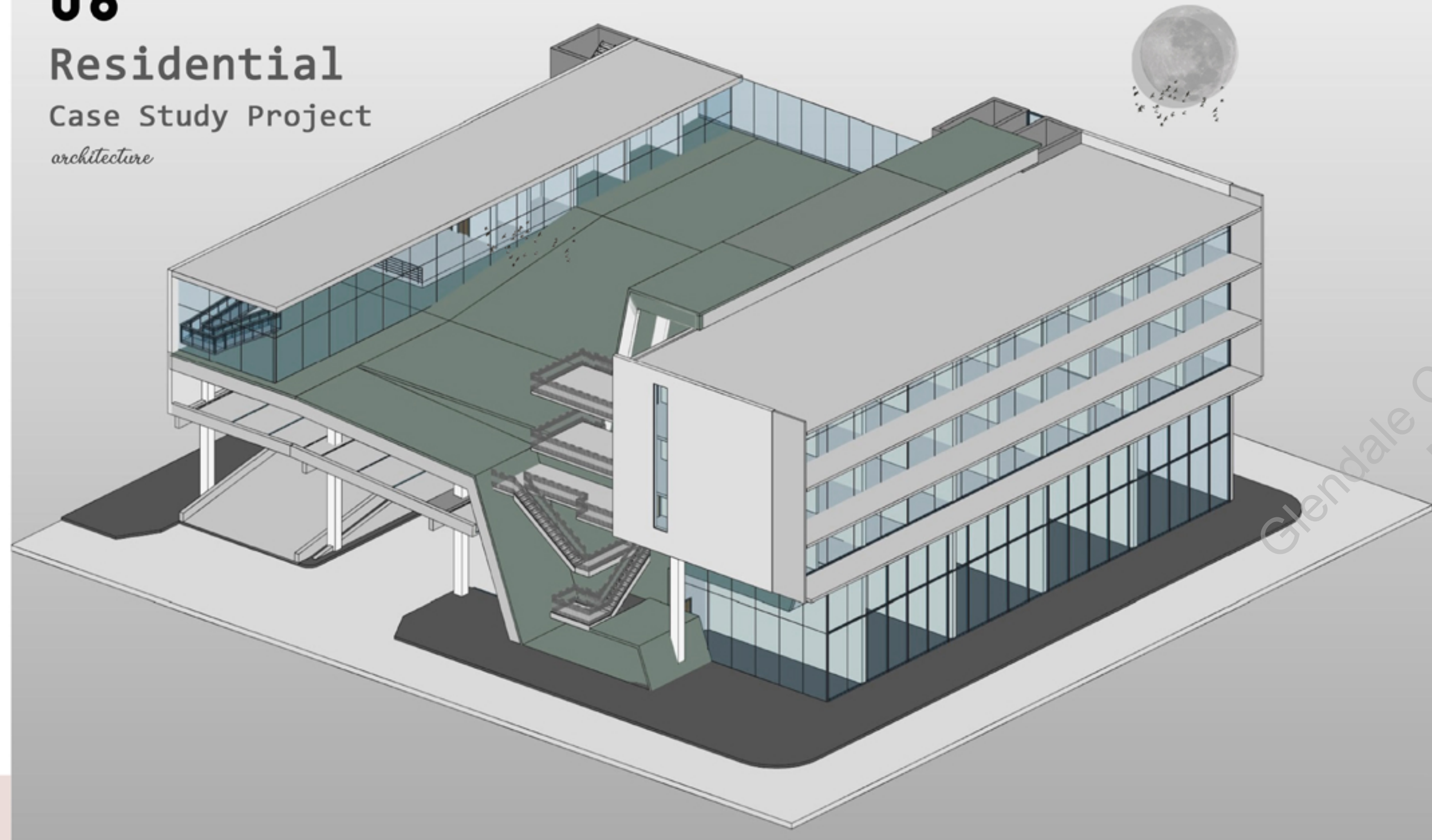
Construction Manual

# Elevations



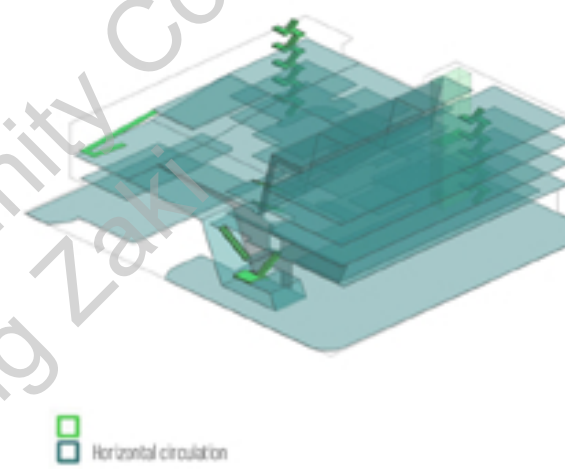
# 06 Residential Case Study Project

architecture



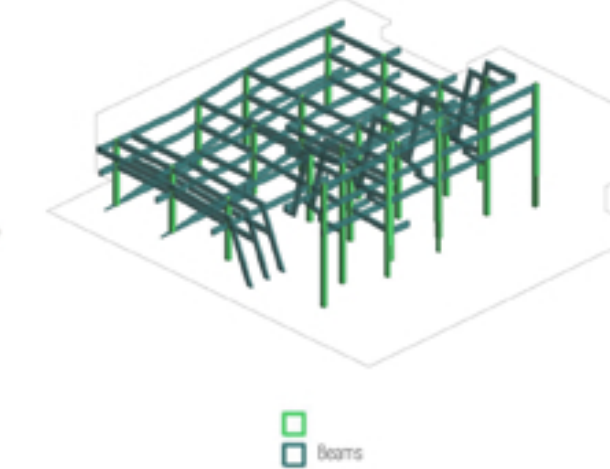
## Existing Site Conditions and Concept

Circulation Diagram



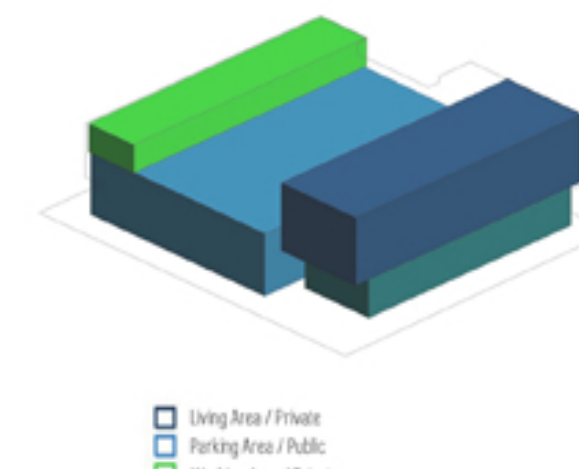
Horizontal circulation

Structural Diagram

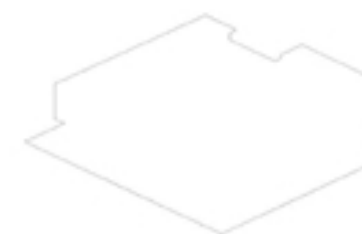


beams

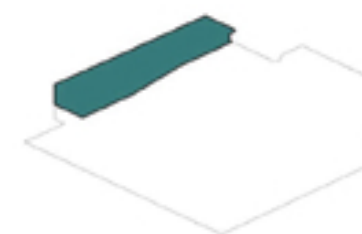
Program Diagram



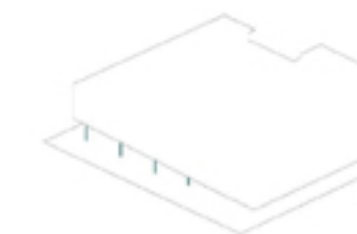
Living Area / Private  
Parking Area / Public  
Working Area / Private  
Retail Stores / Public



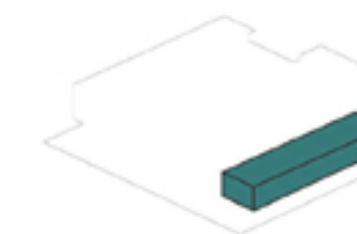
Mass:  
The total mass of the building



Working Area



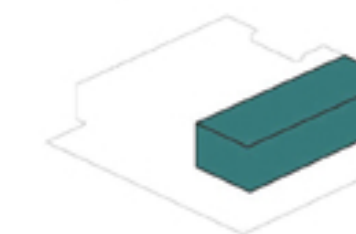
Columns and beams:  
The total weight of the building by columns and beams style.



Retail Stores

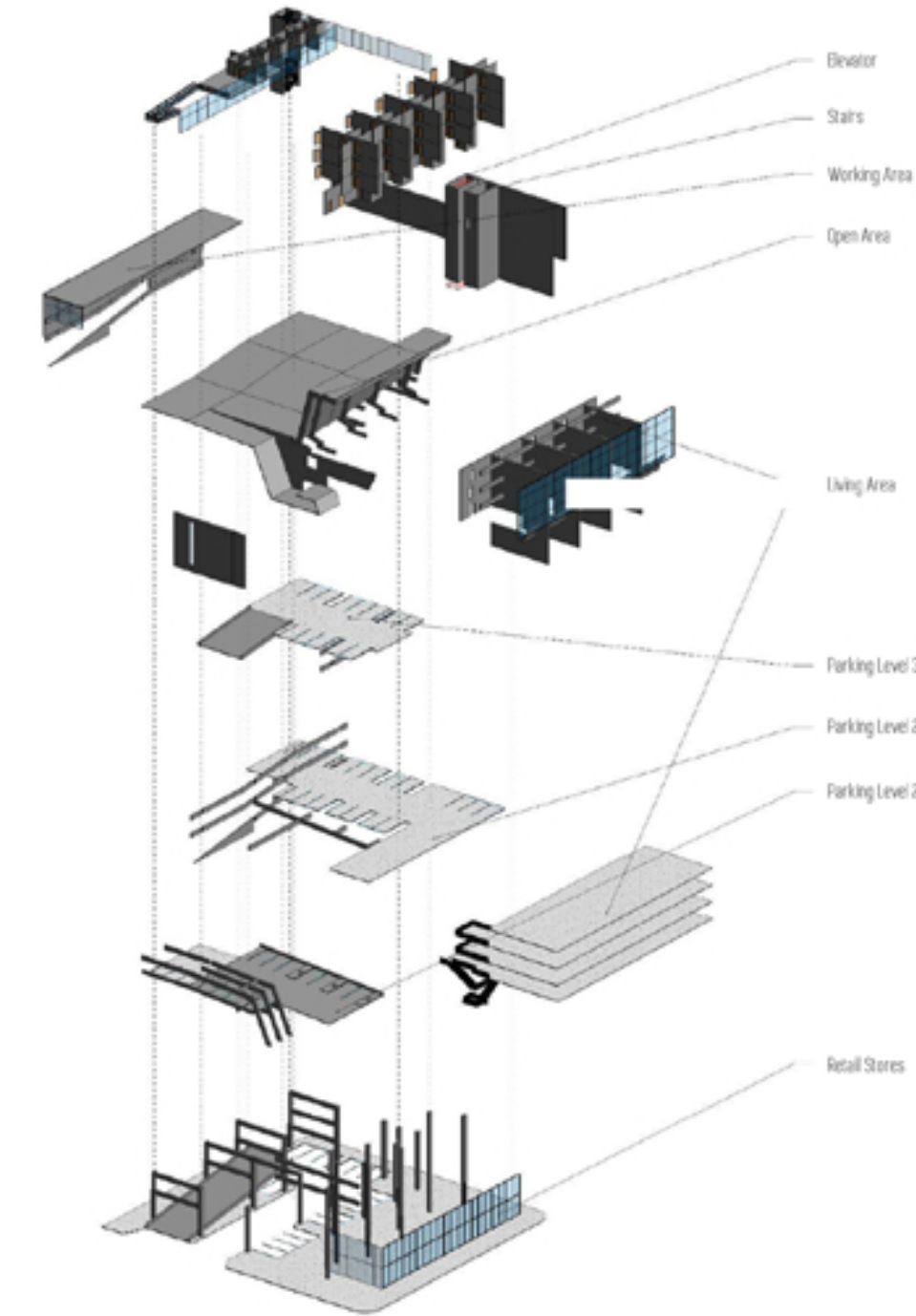


Roof:  
Roof top is an open garden space.



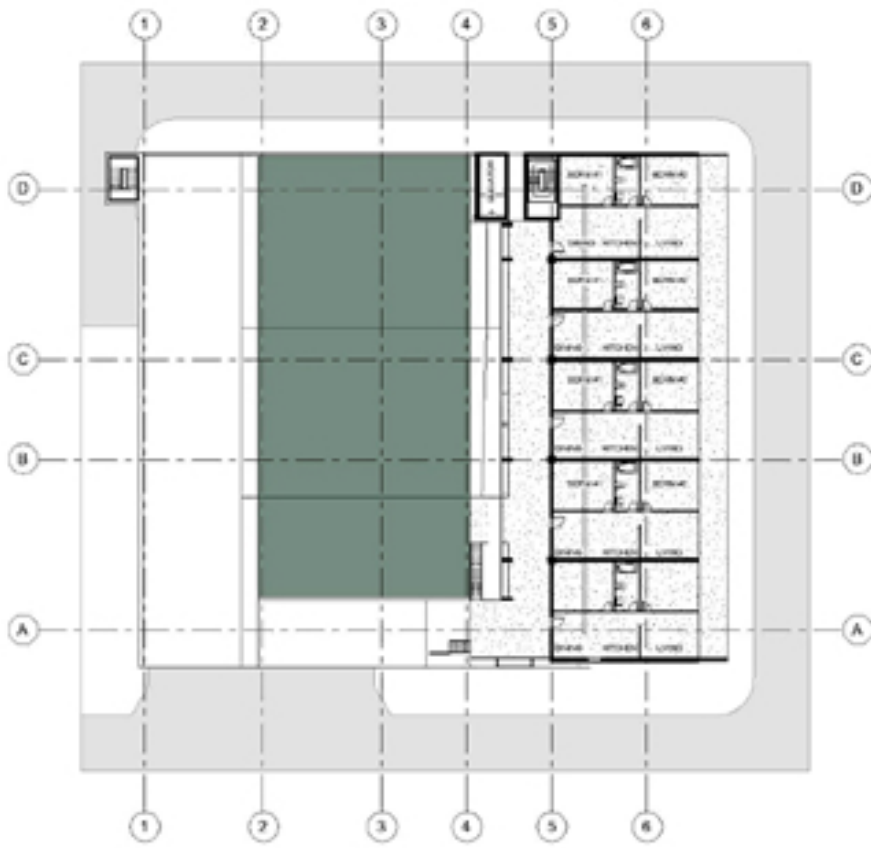
Living Area

Parti Diagram

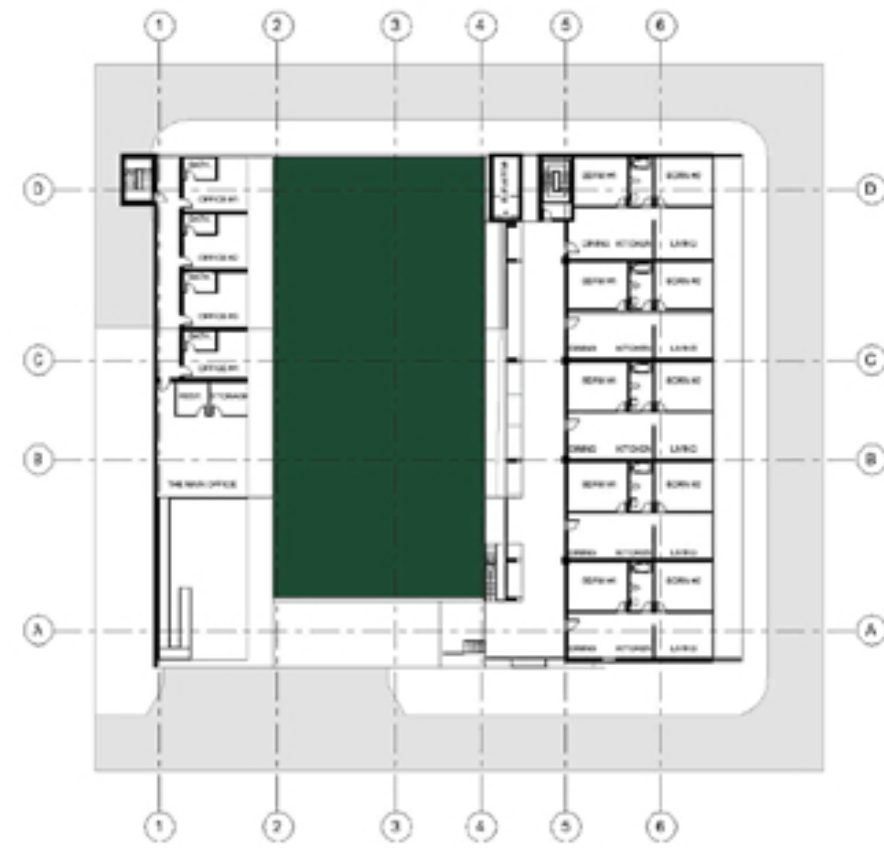


Exploded view

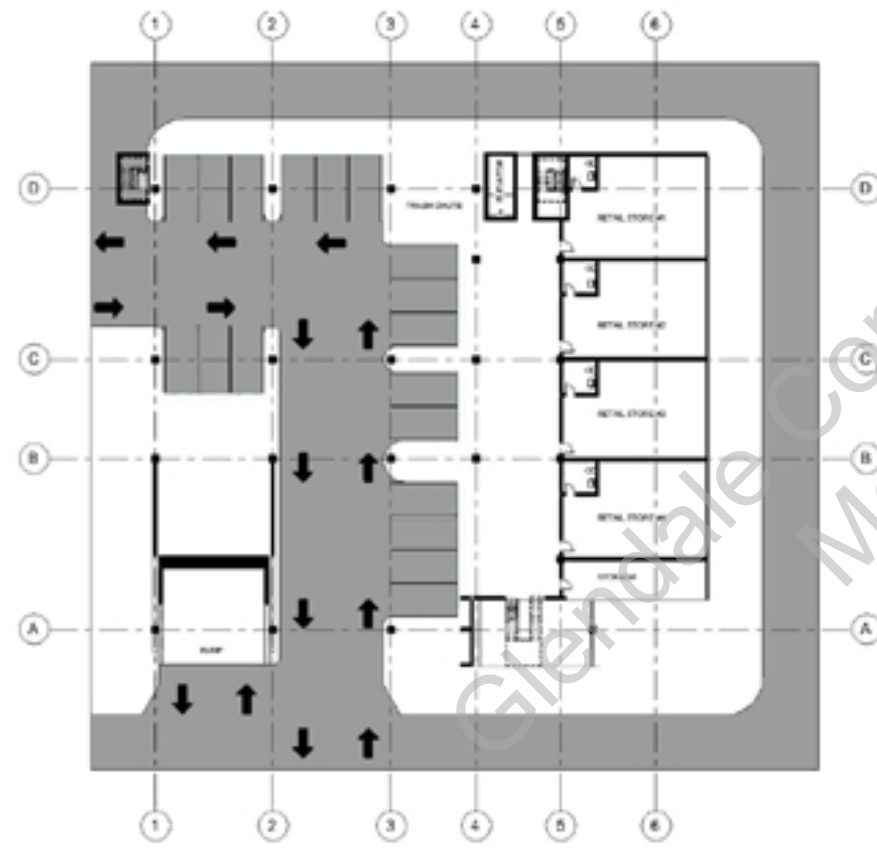
# Floor Plans



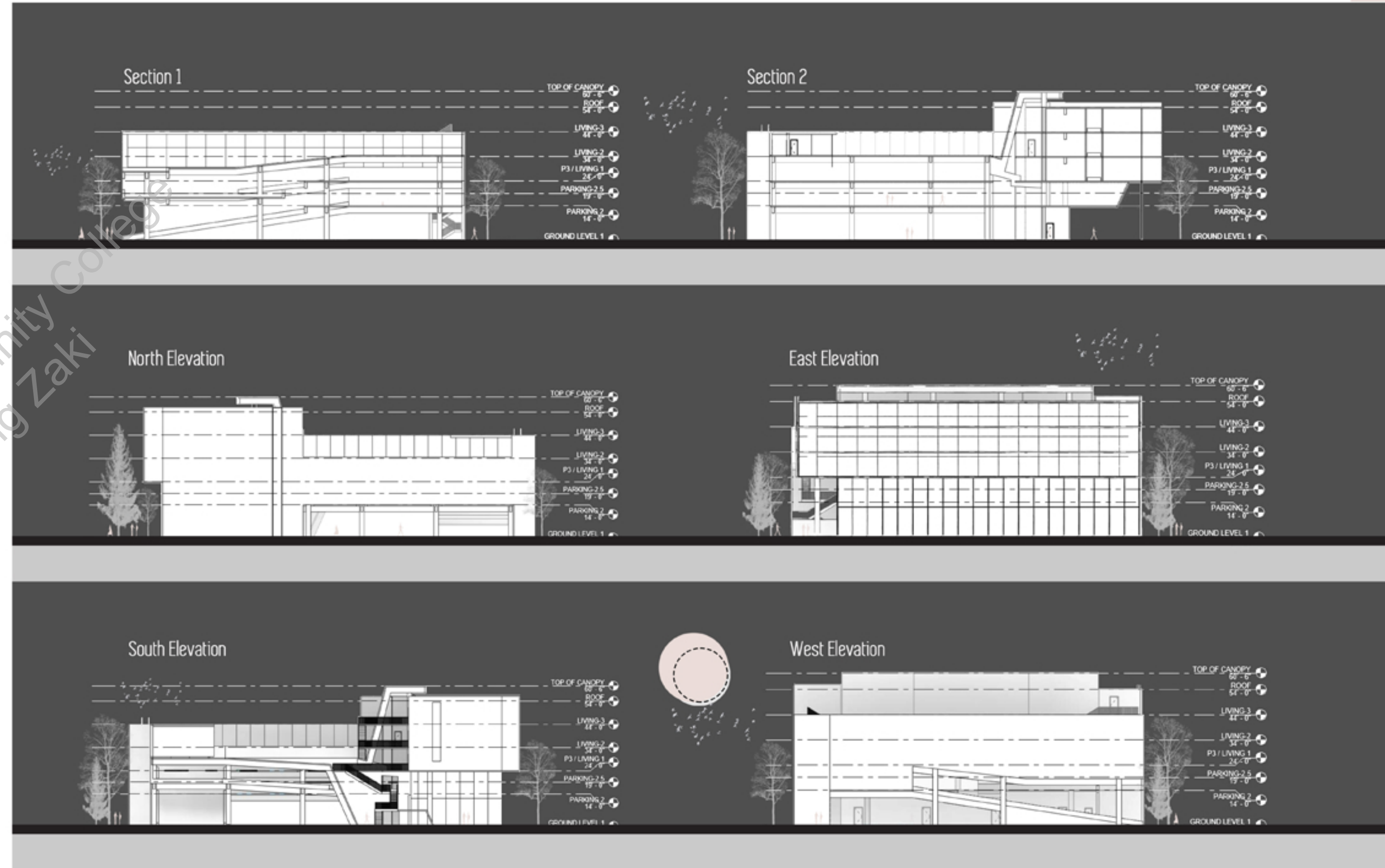
Ground Floor



Level 1



Level 2



**MEGHRIG ZAKI**

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"Pride is a personal commitment. It is an attitude that separates excellence from mediocrity"

- WILLIAM BLAKE