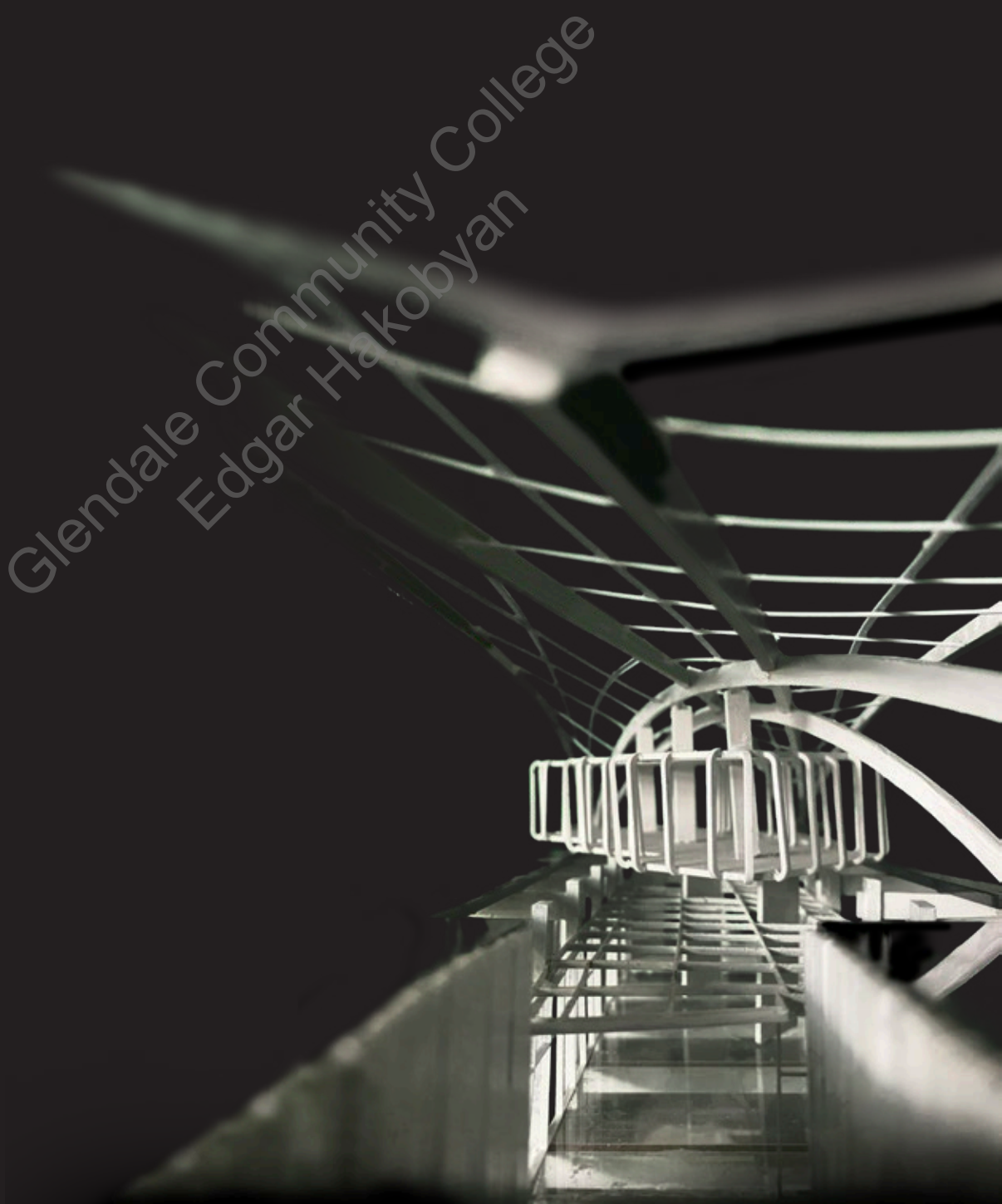
EDGAR HAKOBYAN

ARCHITECTURAL PORTFOLIO 2020
GLENDALE COMMUNITY COLLEGE



Skills

Revit Architecture	Rhinoceros 3D
3Ds Max	Twinmotion
Vray for 3Ds Max	Lumion
AutoCad	Adobe InDesign
Sketchup	Adobe Photoshop
Model Making	Painting & Drawing
Laser Cutting	

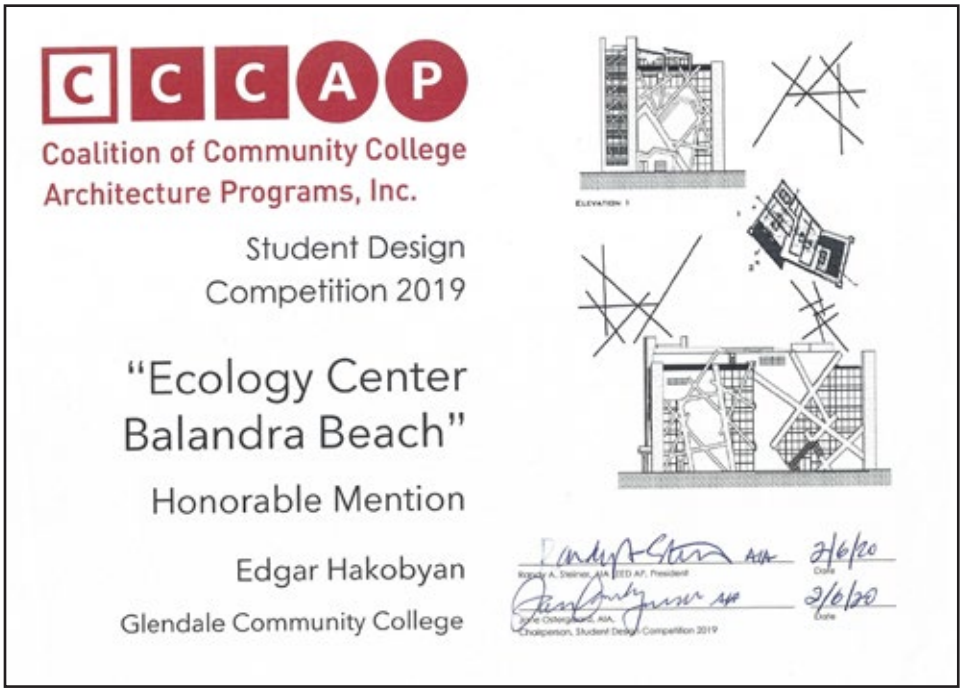
Achievements

Community College Exhibition At WOHO Gallery February 2019

Project Displayed: Arch 120
Pages: 4-9

CCCAP Student Design Competition 2019

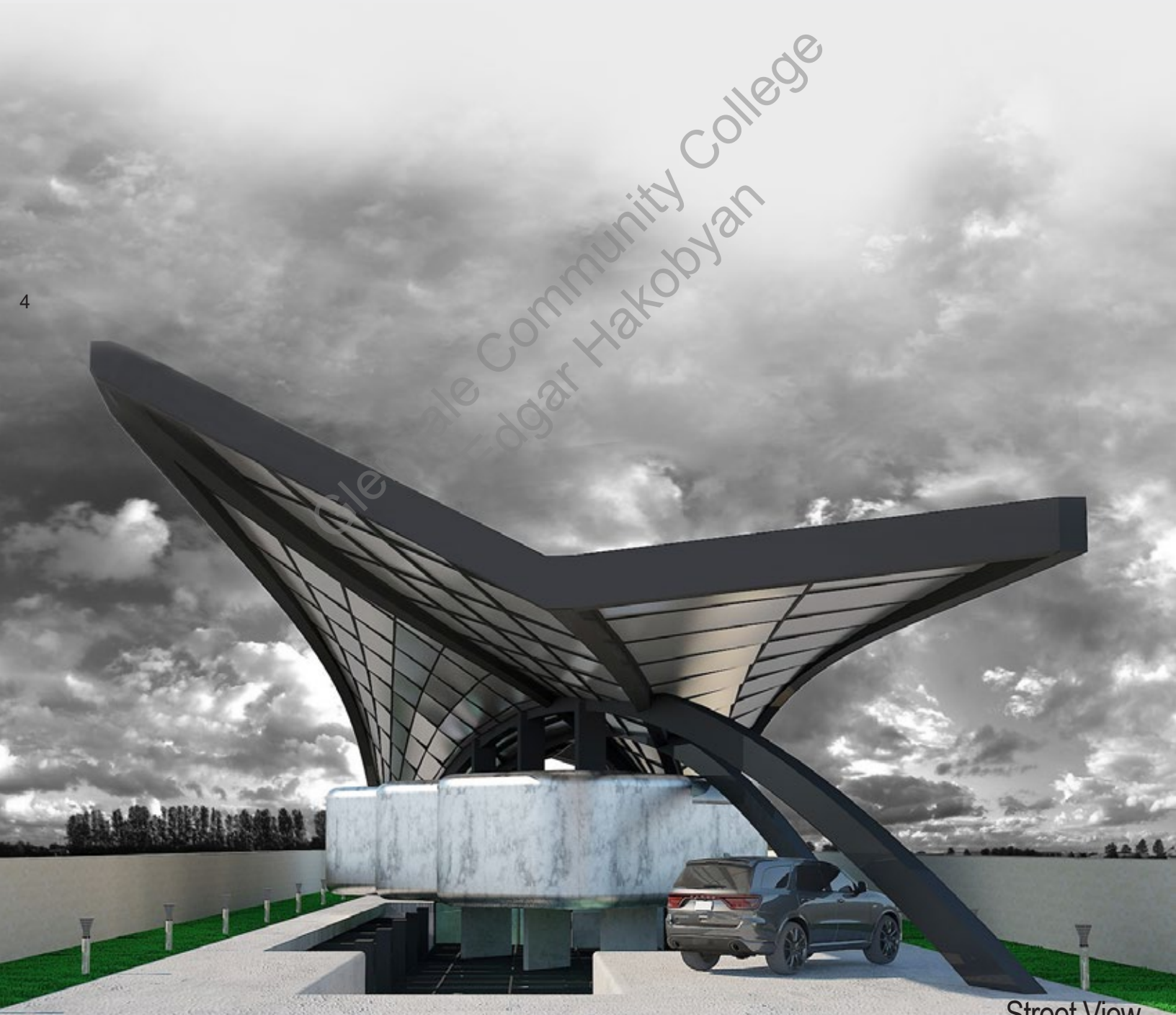
Project Displayed: Arch 130
Pages: 16-19



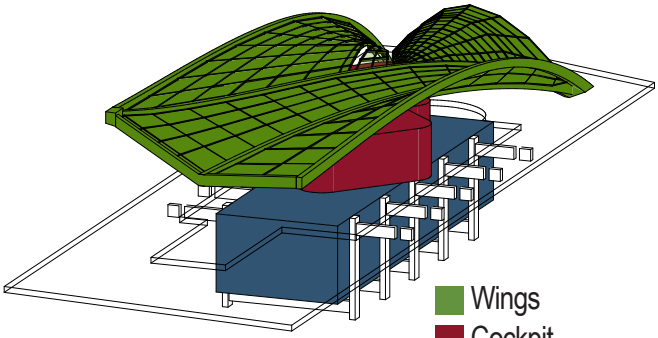
CONTENTS

House for an Aviator

Residential Architectural Design I - Arch 120
Individual Project
Instructor: Paul Chiu
Glendale Community College Fall 2018

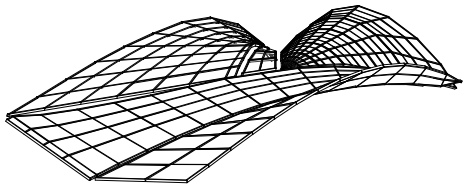


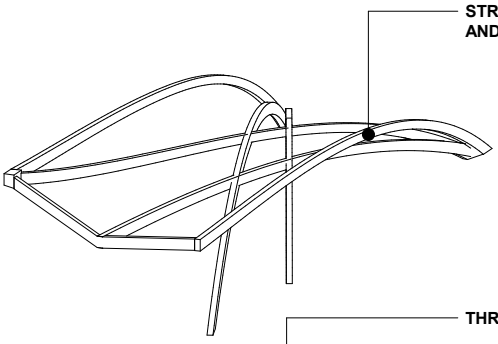
Street View

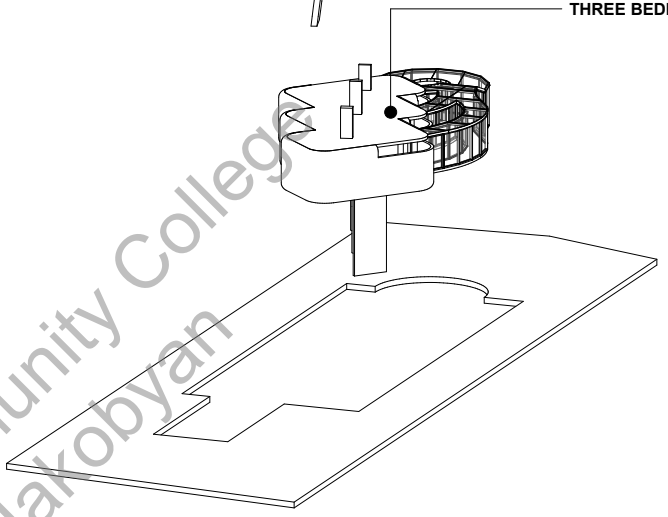


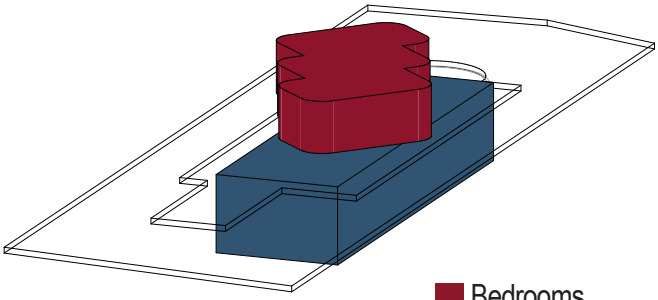
Wings
Cockpit
Missiles

Parti Diagram



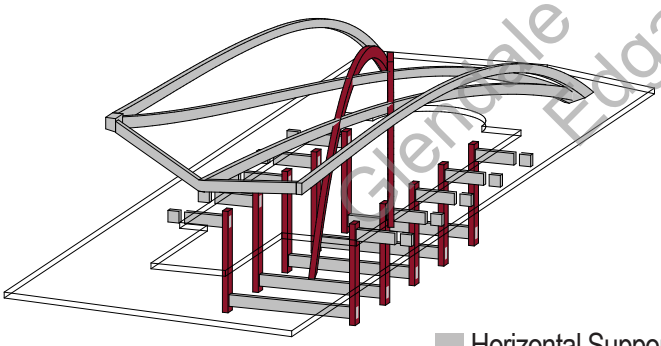






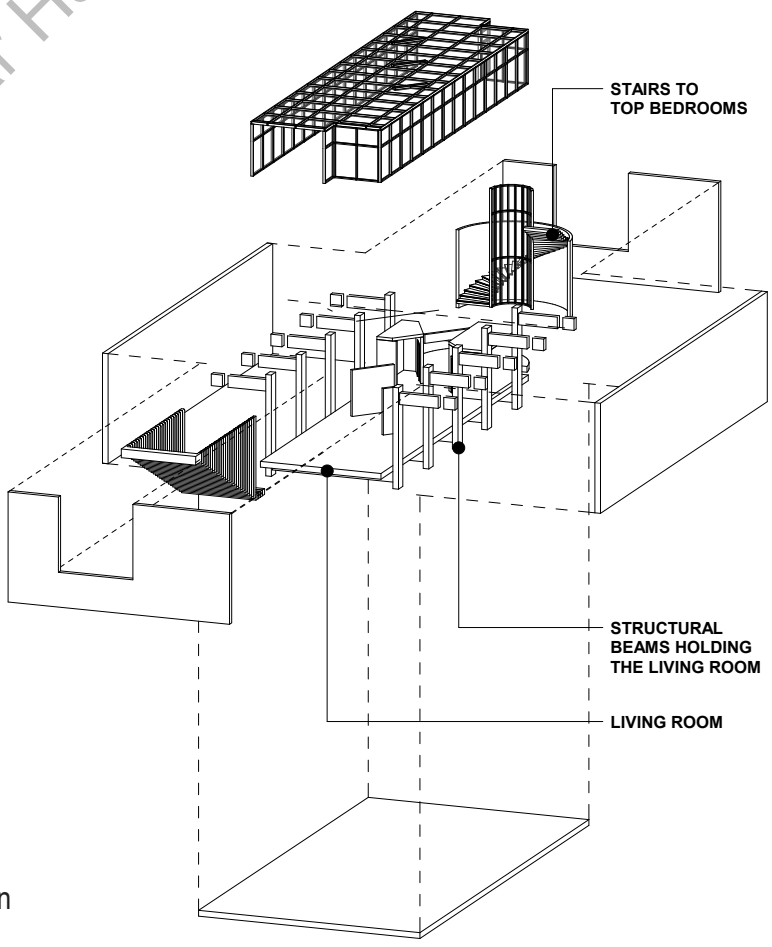
Bedrooms
Living, Kitchen, Dining

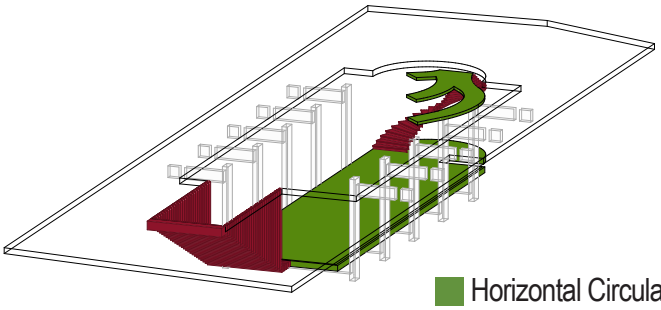
Parti Diagram



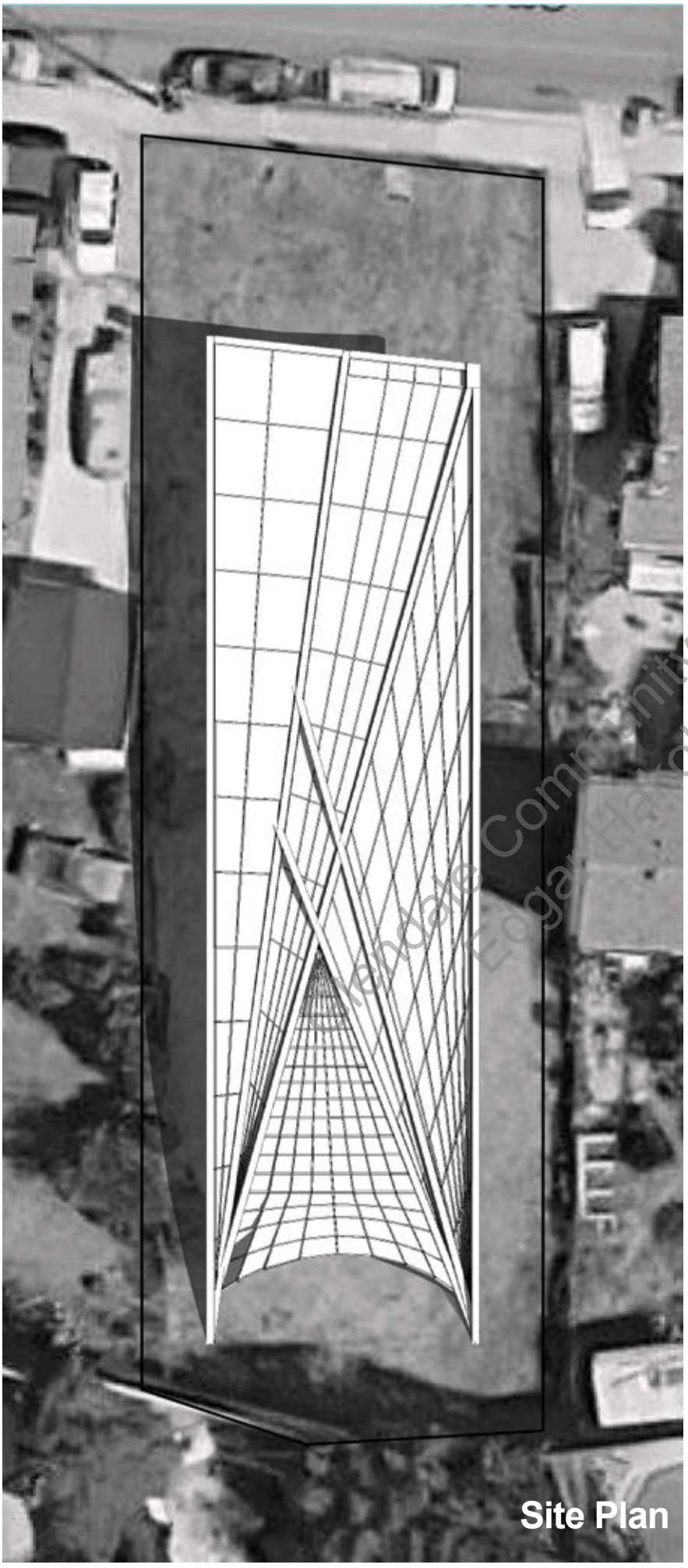
Horizontal Support
Vertical Support

Structural Diagram

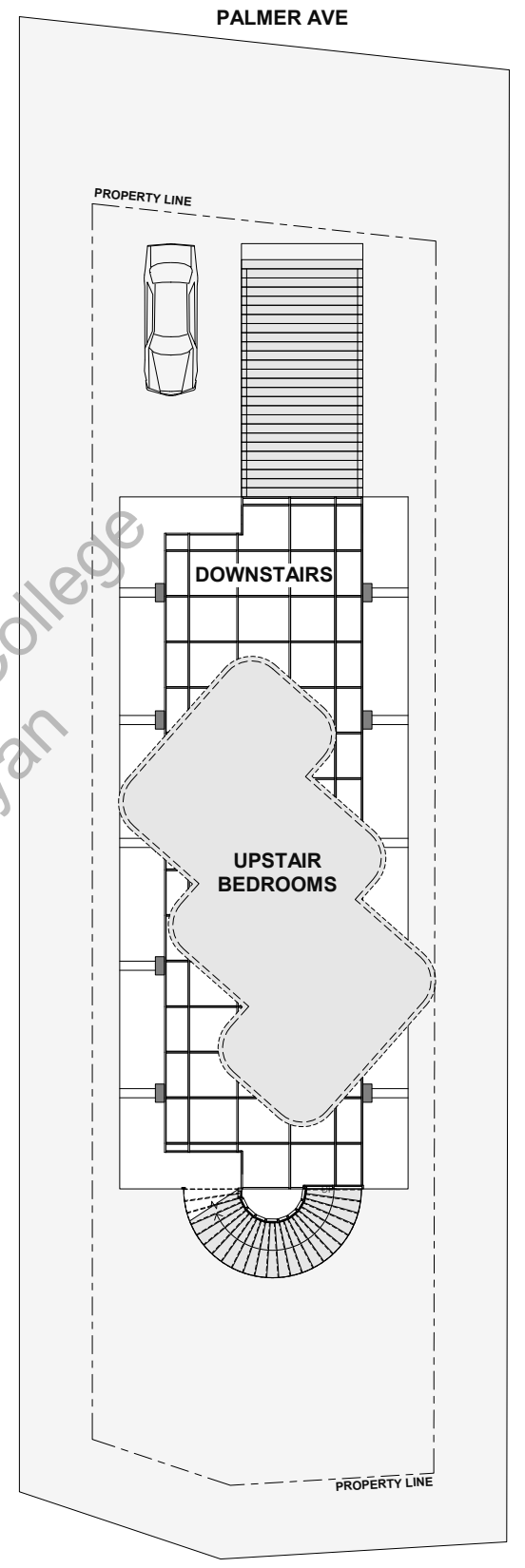




Horizontal Circulation
Vertical Circulation



Site Plan

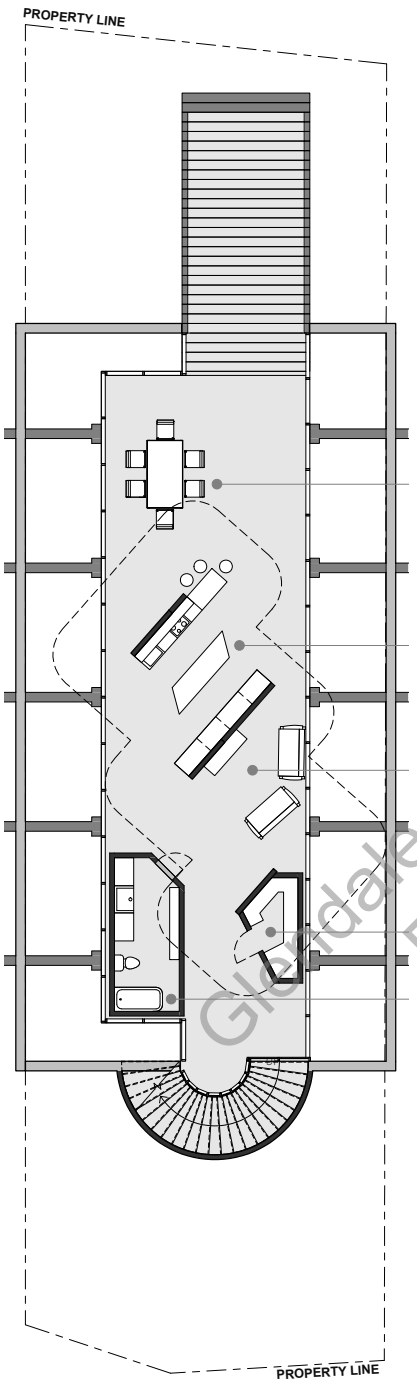


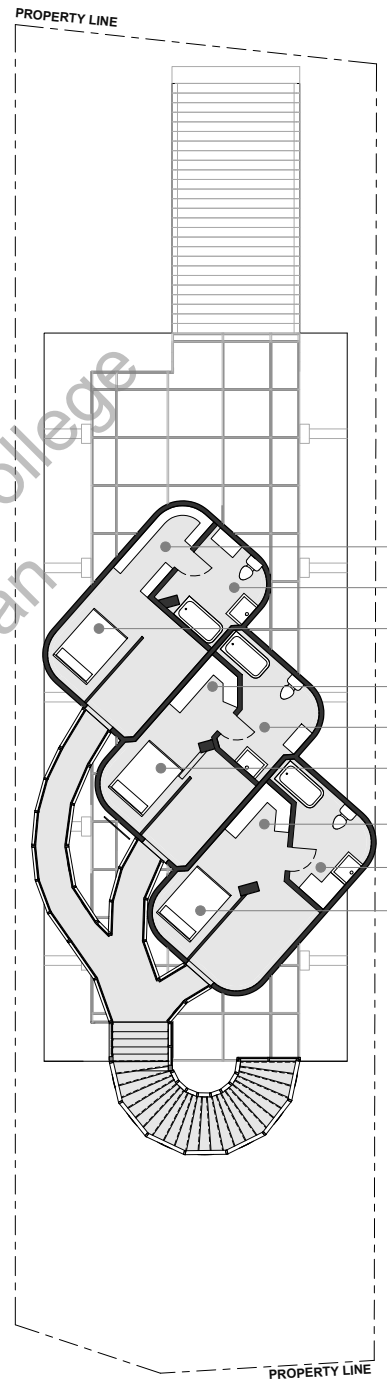
Ground Level

0 10' 20' 40'

SCALE: 1" = 20'-0"

N





Underground Level

0 10' 20' 40'

SCALE: 1" = 20'-0"

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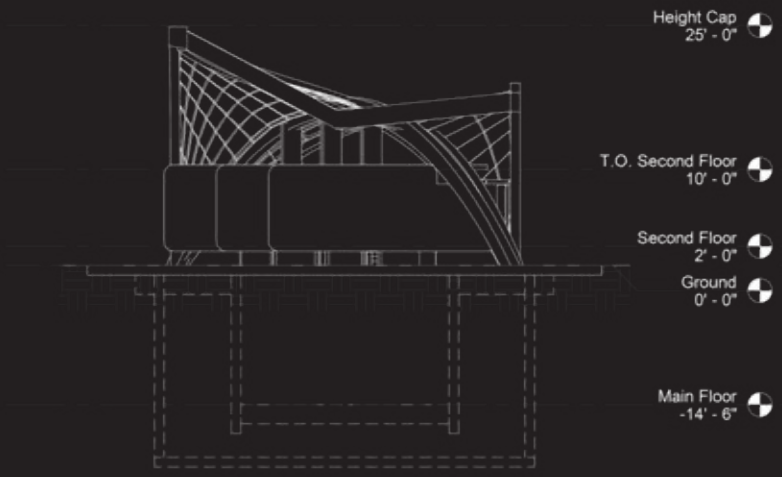
Upper Level

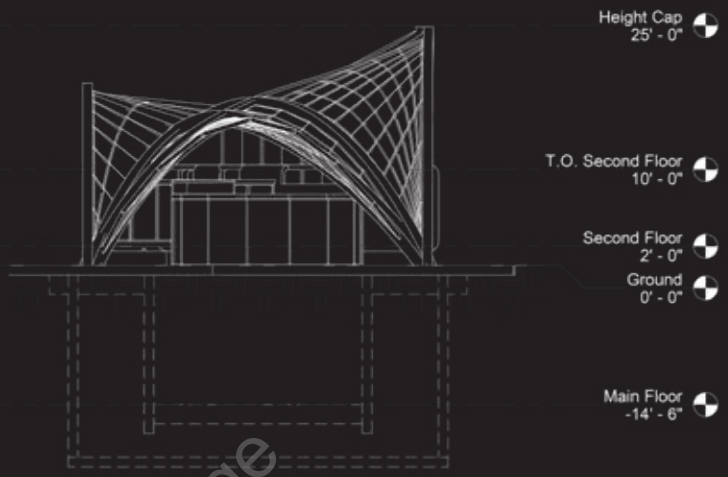
0 10' 20' 40'

SCALE: 1" = 20'-0"

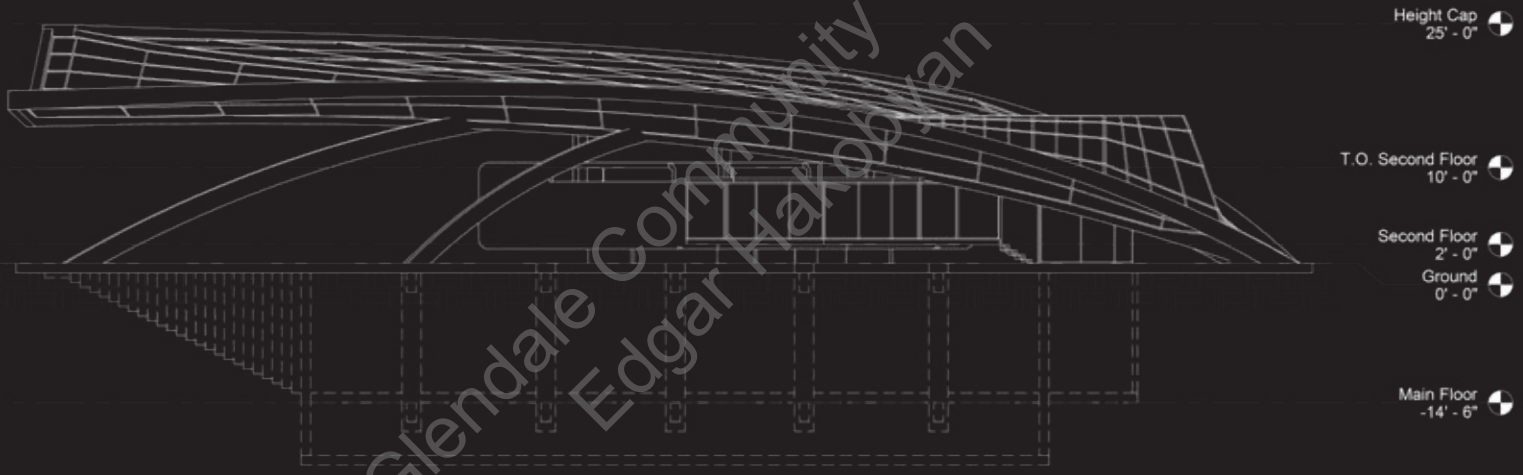
N



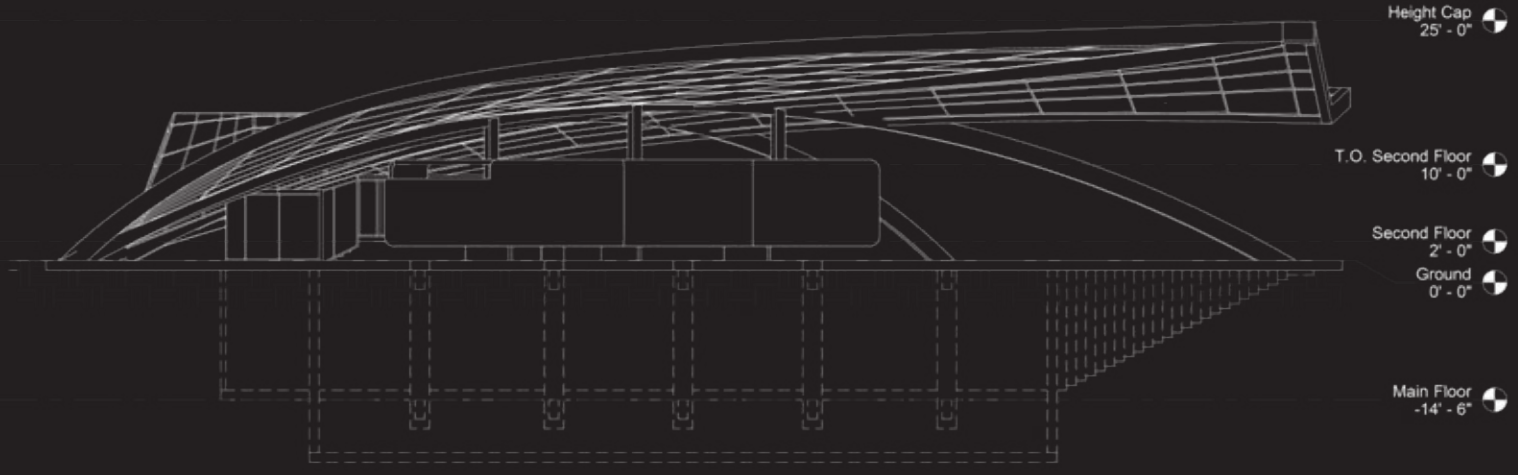
North Elevation



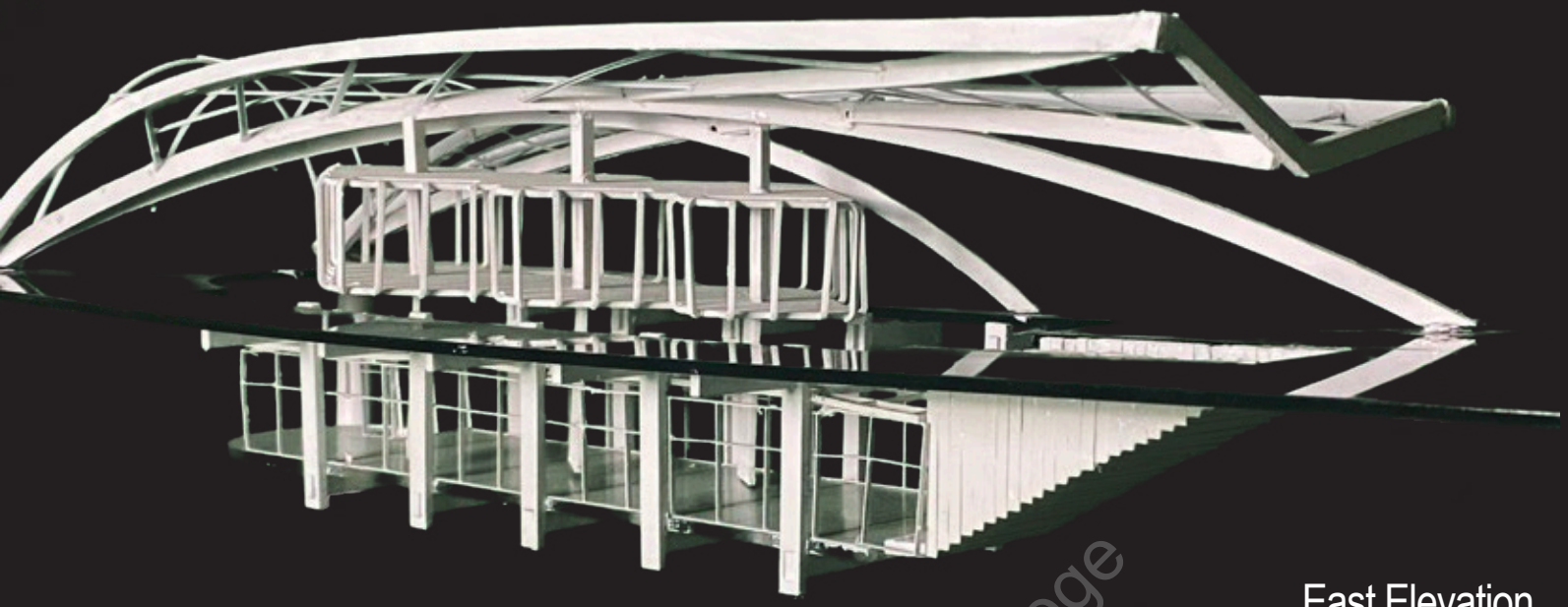
South Elevation



West Elevation

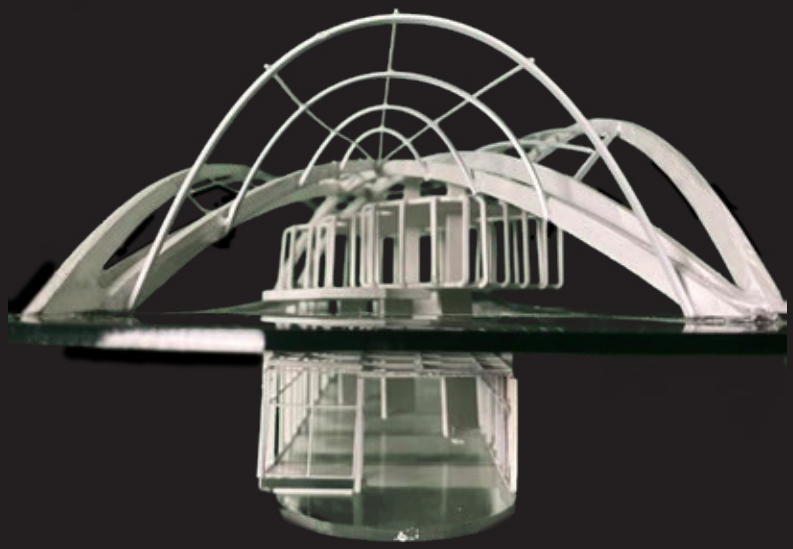


East Elevation



East Elevation

East Elevation

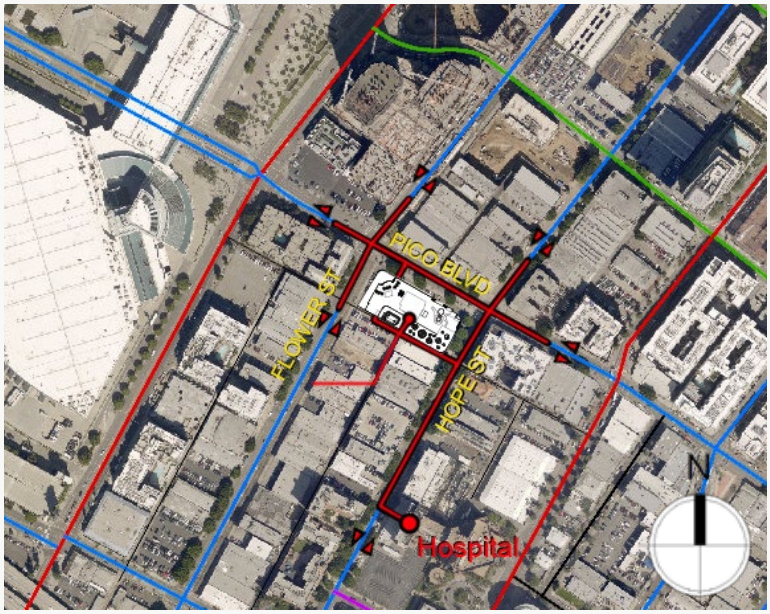


South Elevation

Senior Mix-Use Housing Project

Residential Architectural Design II - Arch 125
Class Project
Instructor: Paul Chiu
Glendale Community College Winter 2019

Site Analysis

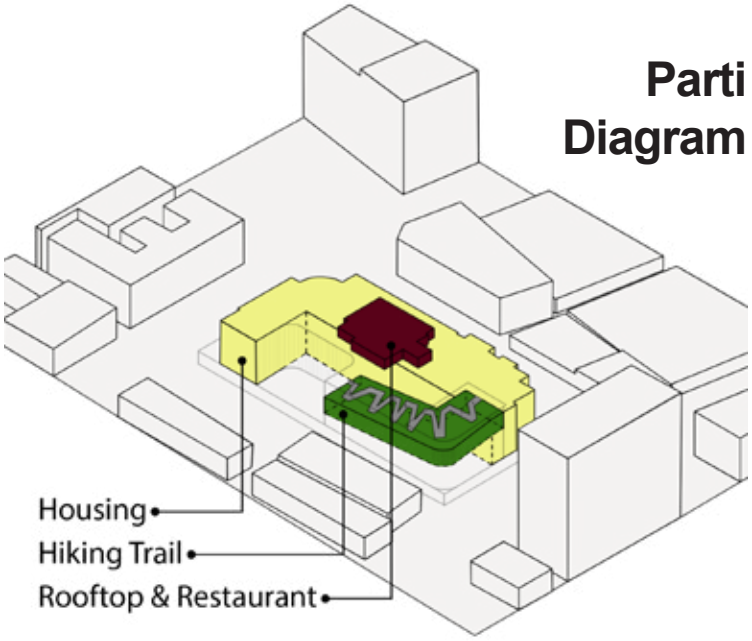


Traffic Analysis

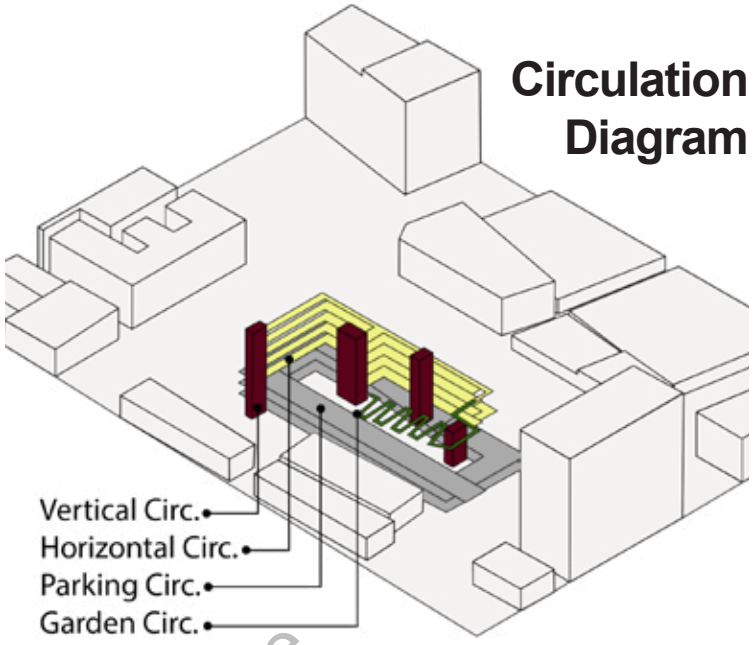
The seniour housing complex is located at 520 Pico Blvd. It is design to provide services to elder people with security and comfort. The building is facing the Downtown LA on the north and east sides. The nearby hospital provides quick and secure care for those in need. All the units are ADA accessible. Each floor has a medical office which provides the nurses direct and quick access to each unit. In case of any emergency the nurses have a fast and clear routh to the ground floor where the ambulance car will be waiting to take to the hospital.
The building has a retail store on the ground floor, outdoor swiming pool, general amenities, residential housing, underground parking, indoor **hiking trail** leading to the rooftop which has a restaurant looking towards the Downtown LA.

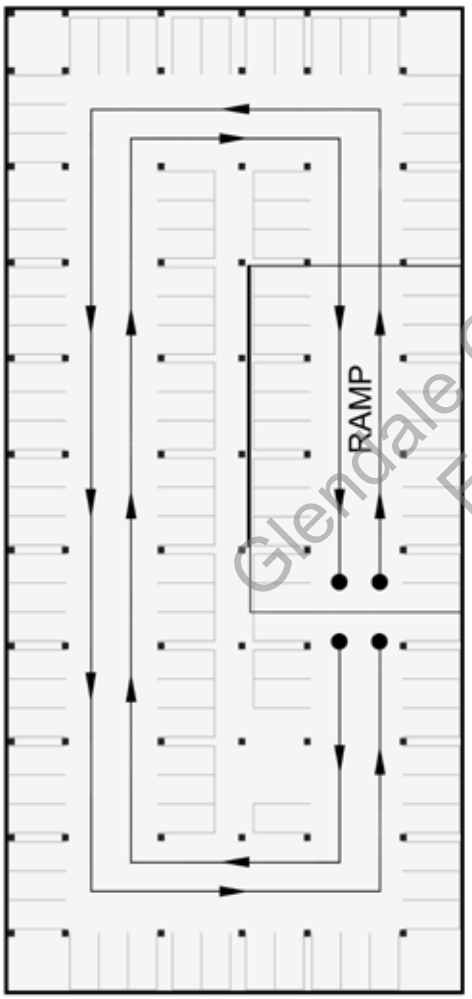
Indoor Hiking Trail

Parti Diagram

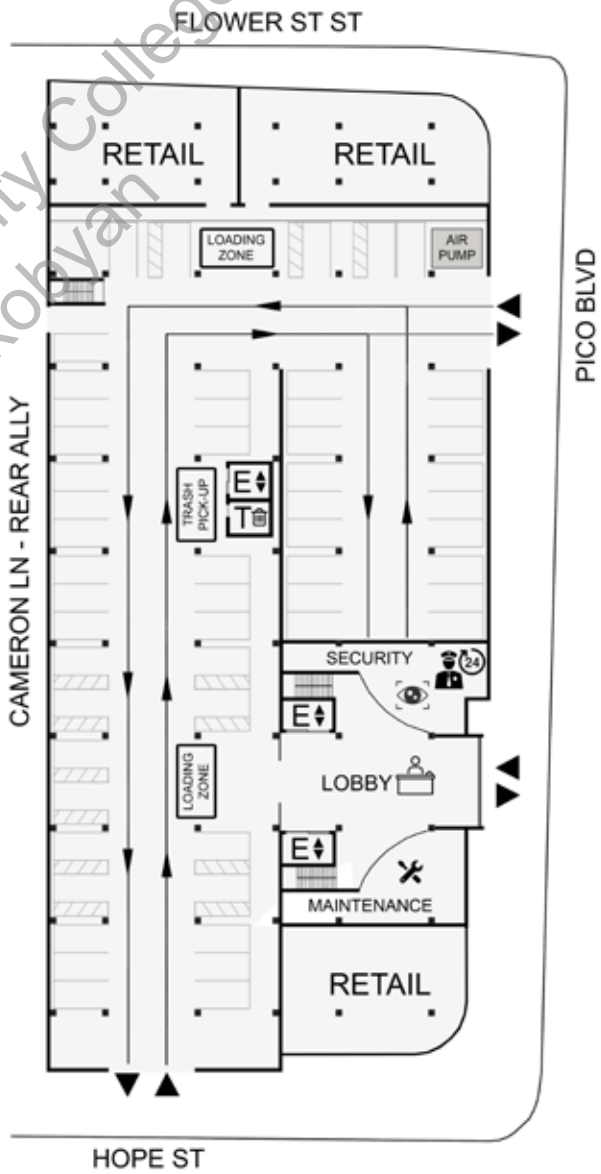


Circulation Diagram





UNDERGROUND LEVEL

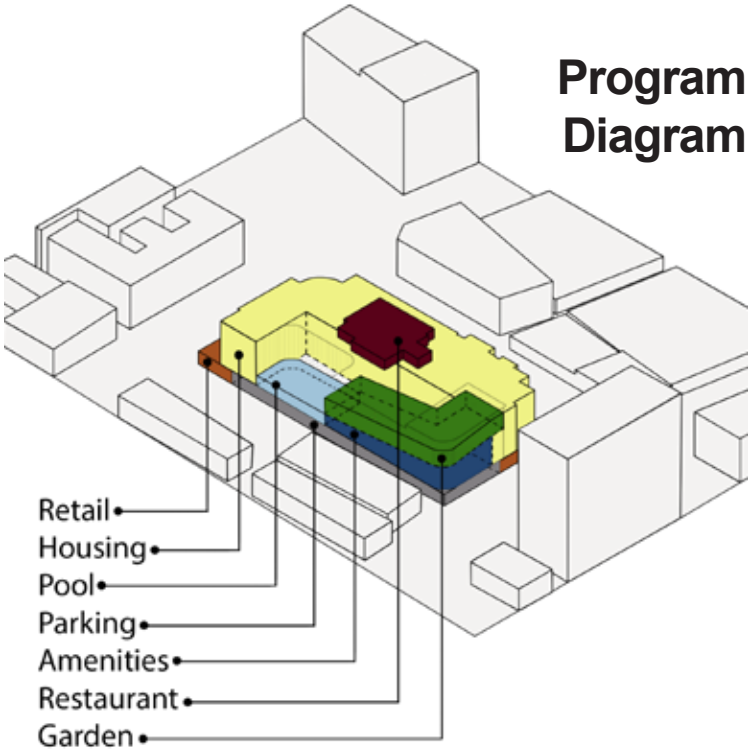


GROUND FLOOR

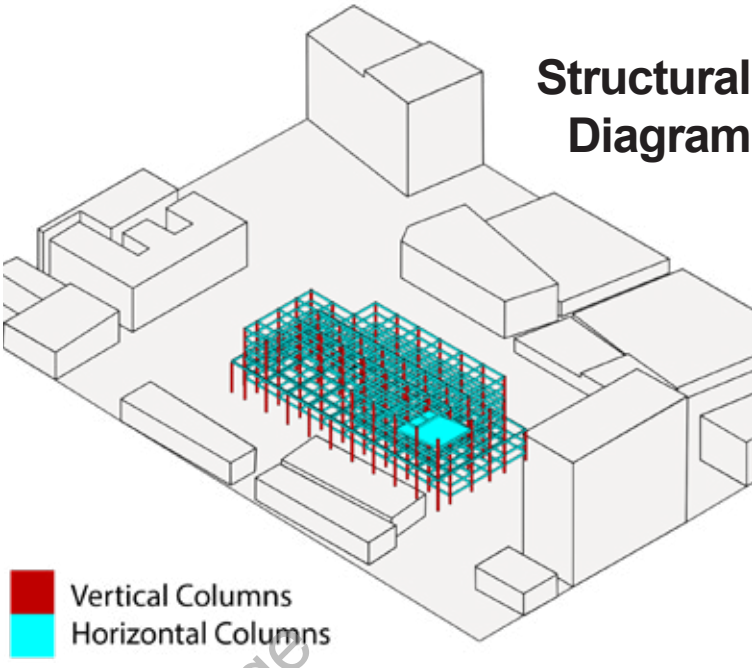
0 30' 60' 120'

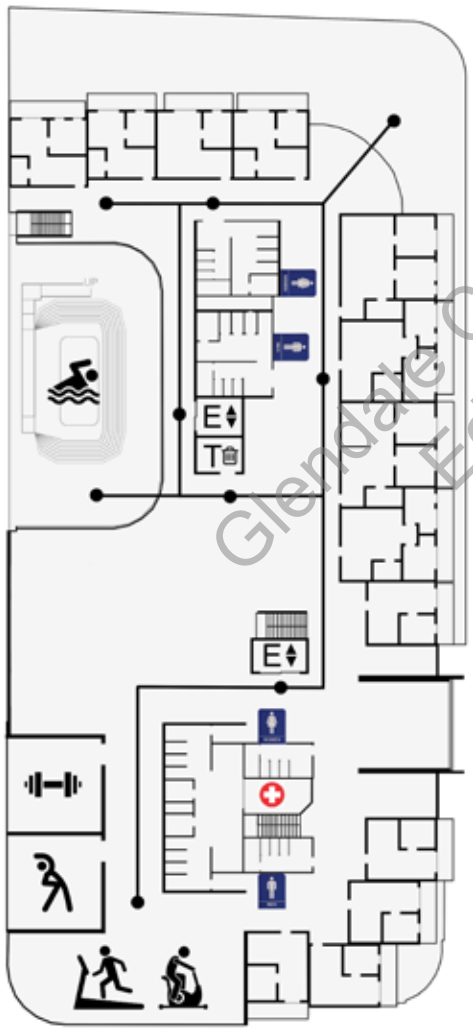
SCALE: 1" = 60'-0"

Program Diagram

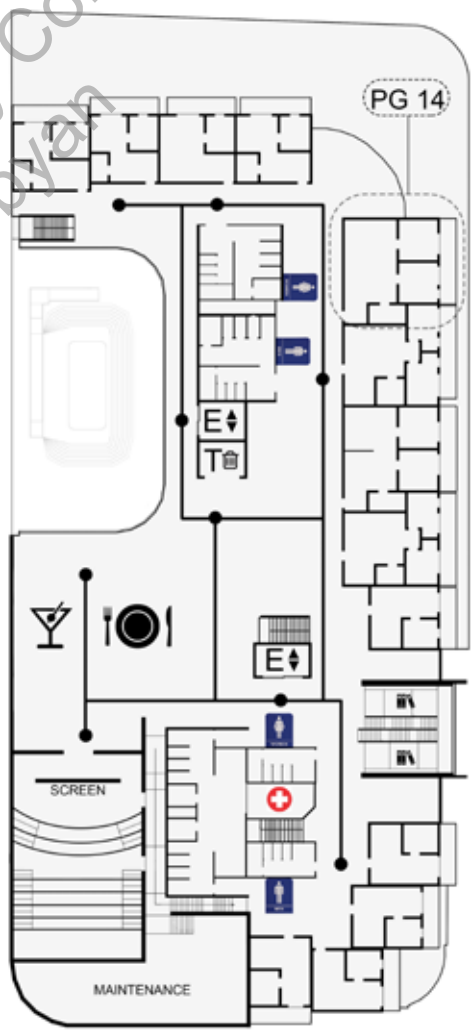


Structural Diagram





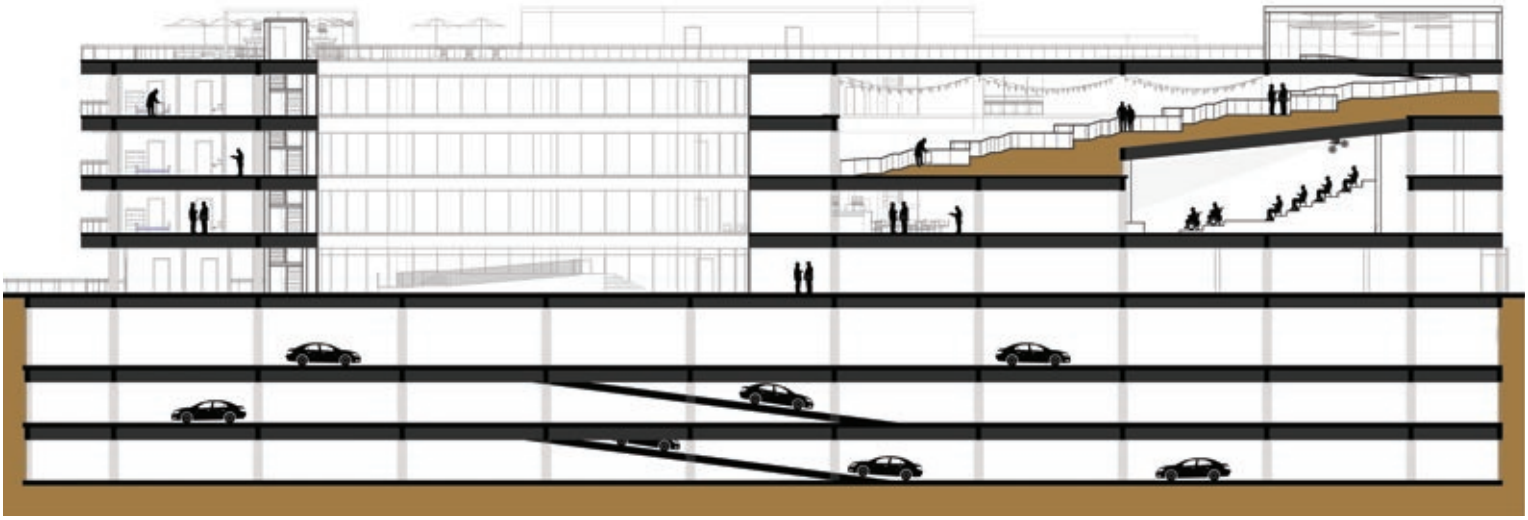
2ND FLOOR



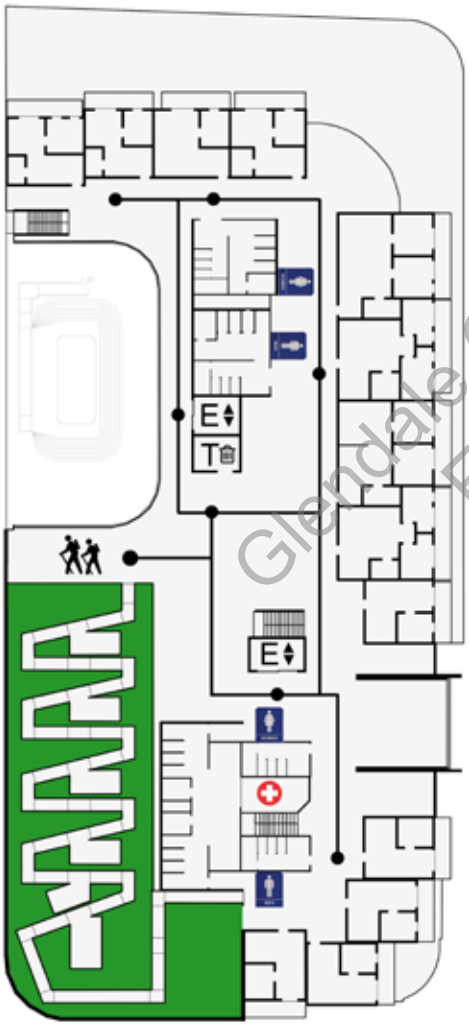
3RD FLOOR

0 30' 60' 120'

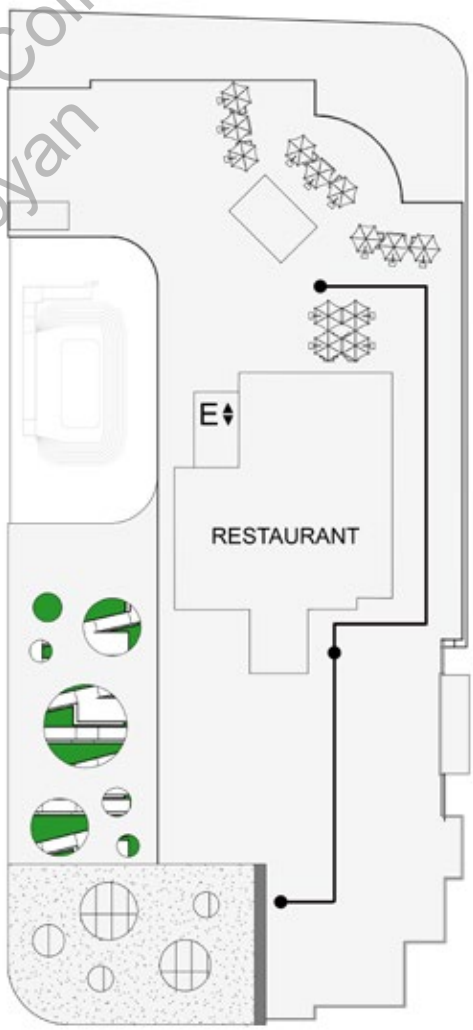
SCALE: 1" = 60'-0"



Longitudial Section



4 & 5TH FLOORS

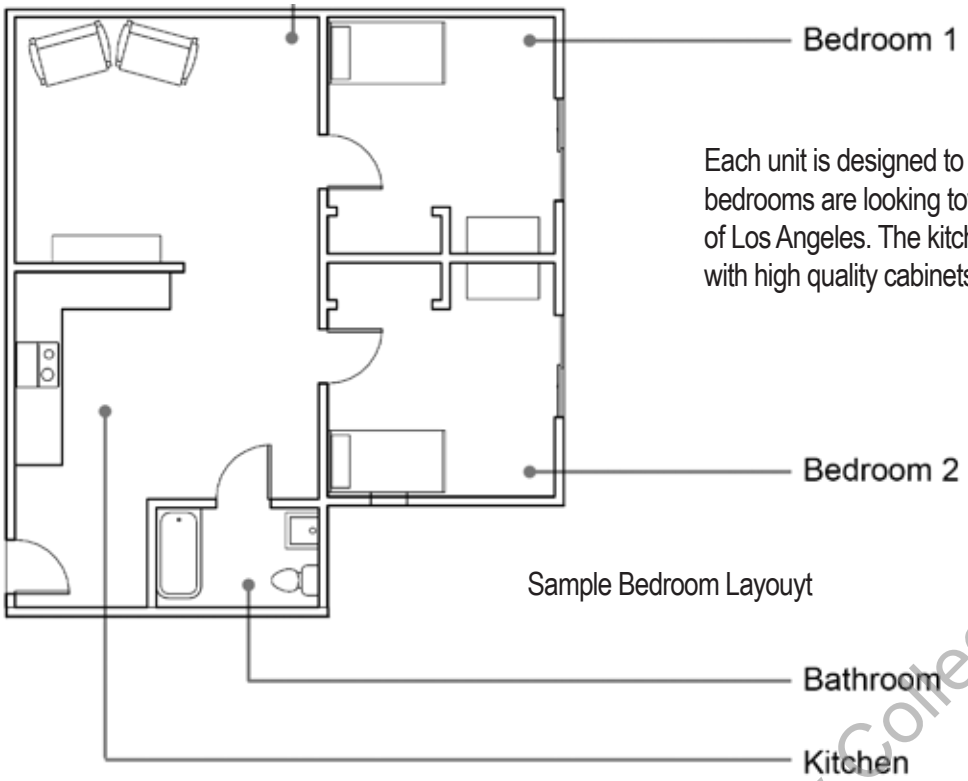


ROOFTOP

0 30' 60' 120'

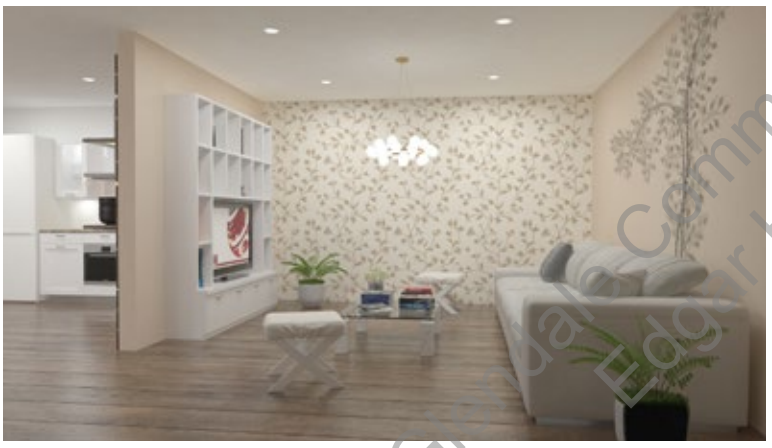
SCALE: 1" = 60'-0"

N



Sample Bedroom Layouyt

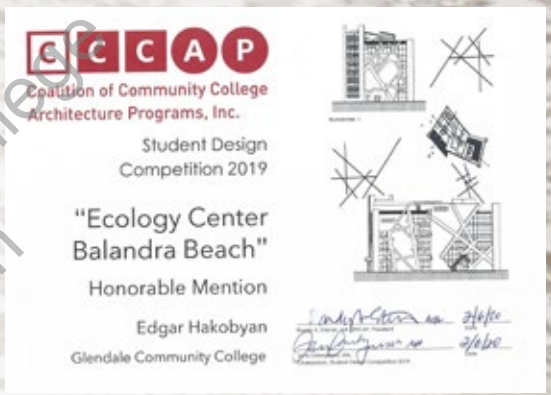
Each unit is designed to accomodate everyday comfortable life. The bedrooms are looking towards the beautiful skyline of the Downtown of Los Angeles. The kitchens are designed with ADA stadandards and with high quality cabinets and appliances.

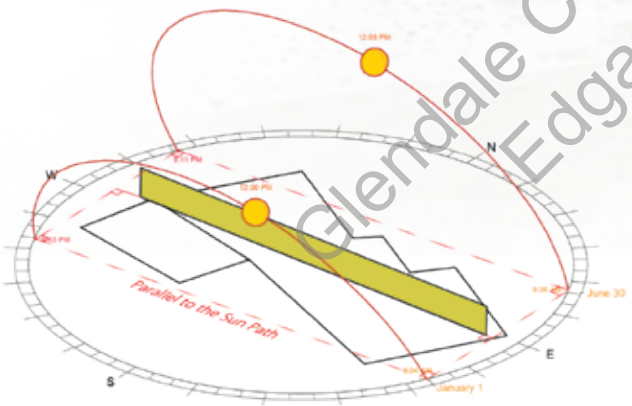


NET ZERO ECOLOGY CENTER

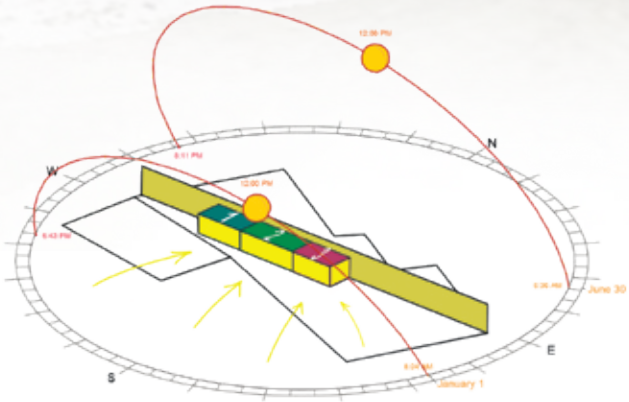
CCCAP Regional Competition - Arch 130
Individual Project
Instructor: Paul Chiu
Glendale Community College Spring 2019

The ecology center was designed to revolve around the sole concept of achieving zero consumption of energy and natural resources and being fully sustainable by harvesting energy that is gifted from the sun and the wind current present at the location. The environment friendly design establishes a direct connection between the environment and humans. The building utilizes maximum amount of sunlight, a free energy source given to the planet earth. The ecology center is equiped with sun blocking features calculated to allow the winter sun in and to block the hot summer. The wind current, present at the site, cools down the facility from underneath and above.

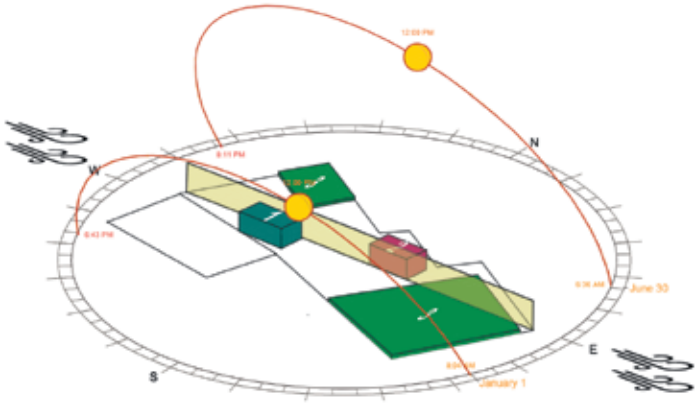




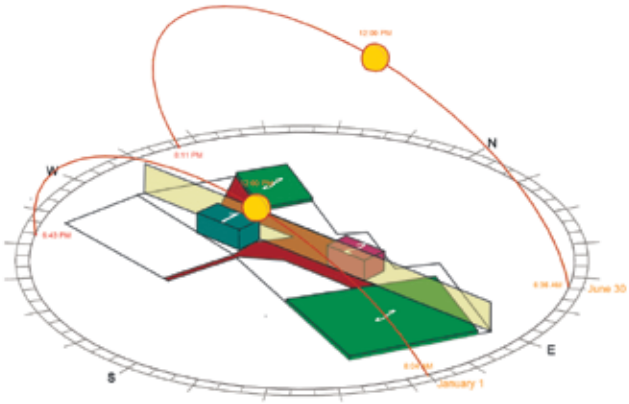
Orient the project parallel to the Sun



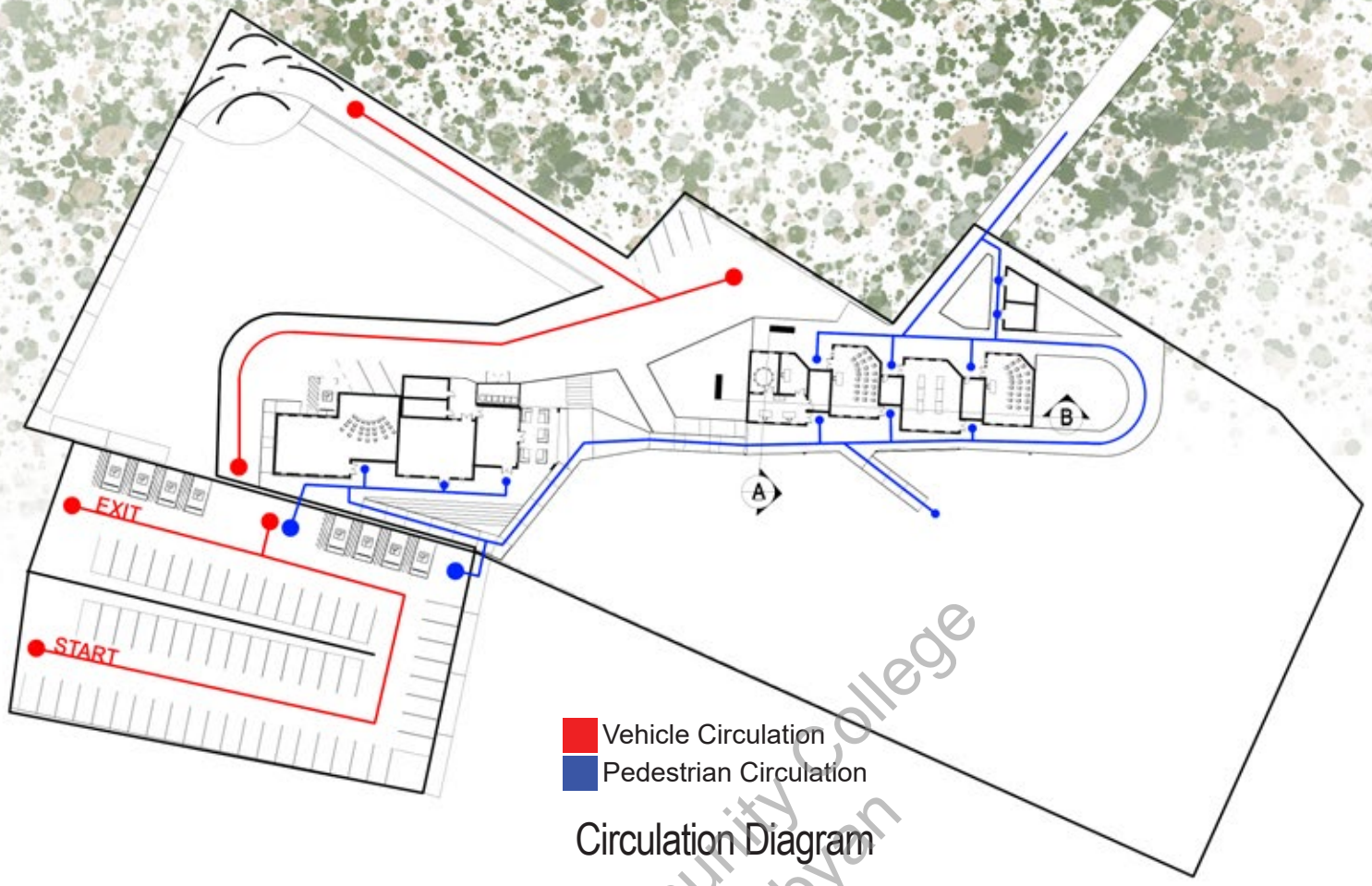
Divide into three parts



Seperate the parts to allow airflow



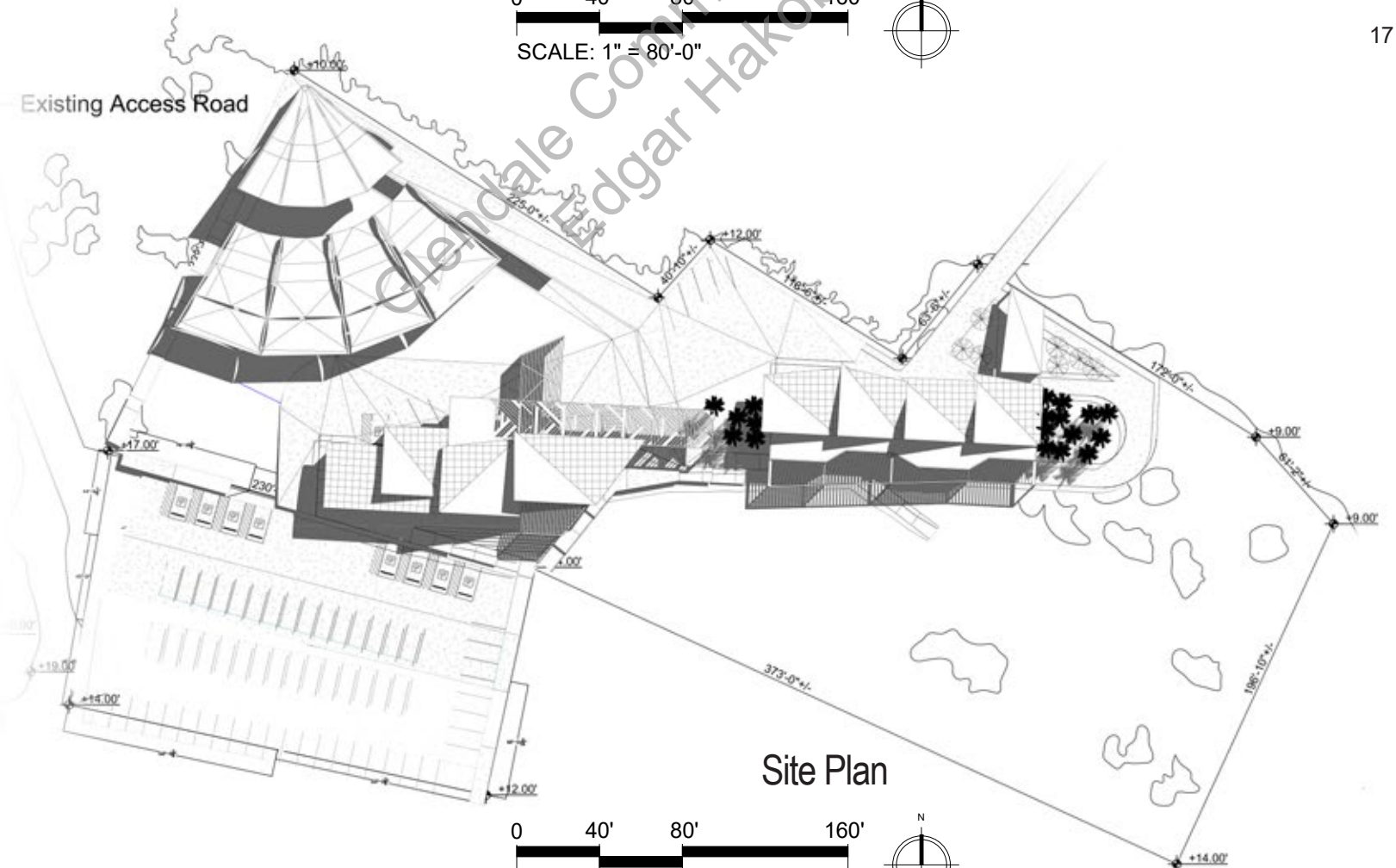
Connect the parts



Circulation Diagram

0 40' 80' 160'

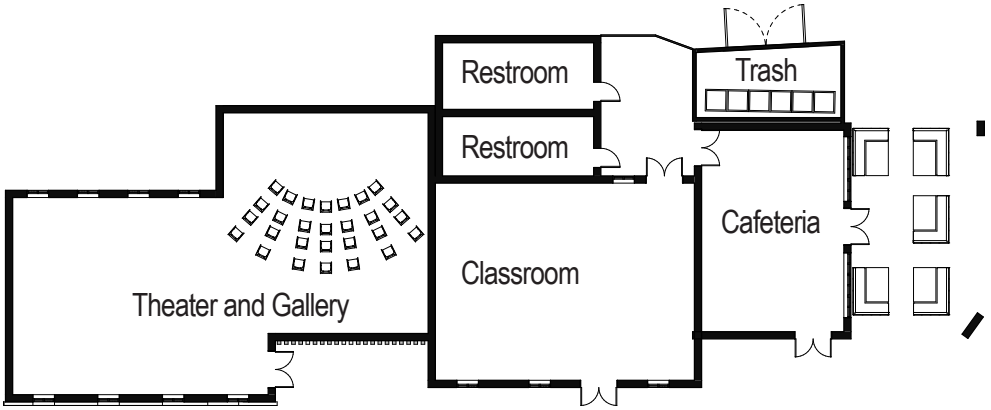
SCALE: 1" = 80'-0"



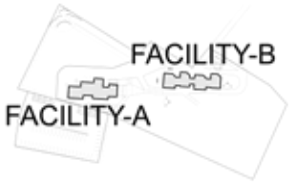
Site Plan

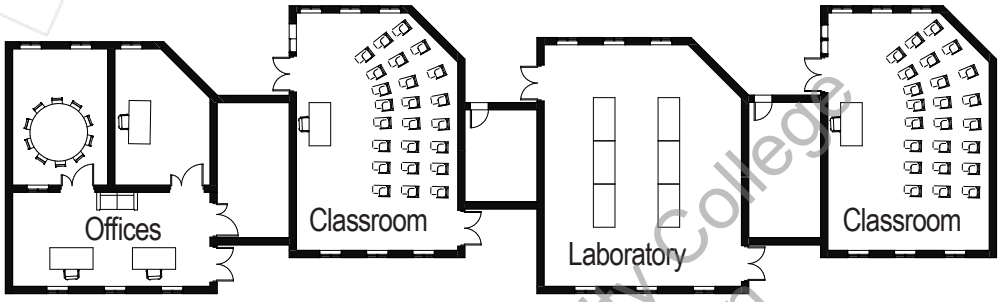
0 40' 80' 160'

SCALE: 1" = 80'-0"

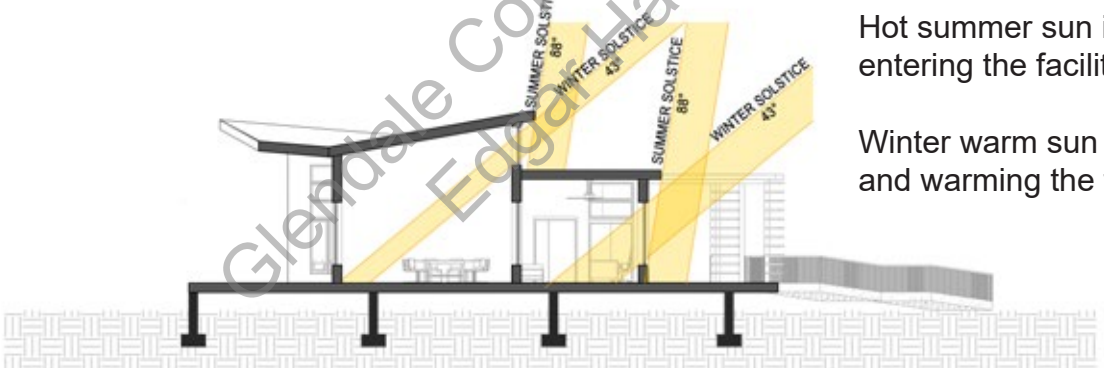


Facility A





Facility B



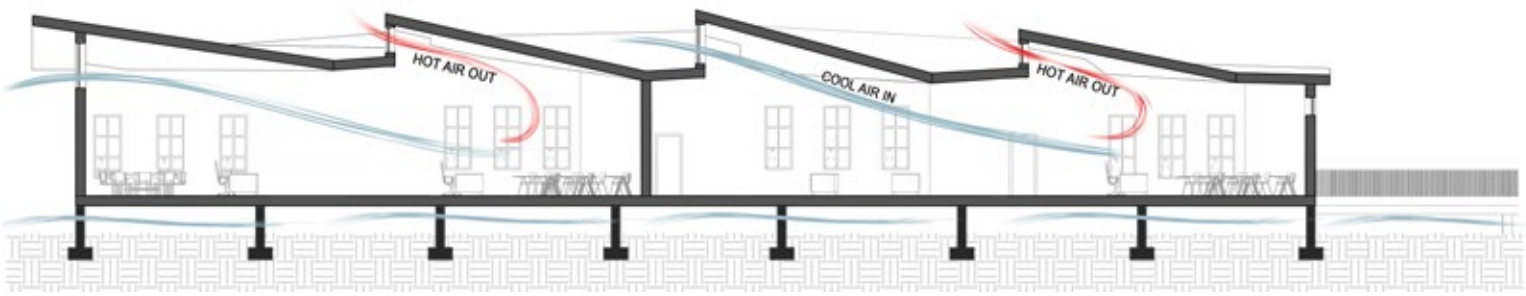
Hot summer sun is blocked from entering the facility.

Winter warm sun is freely entering and warming the facility.

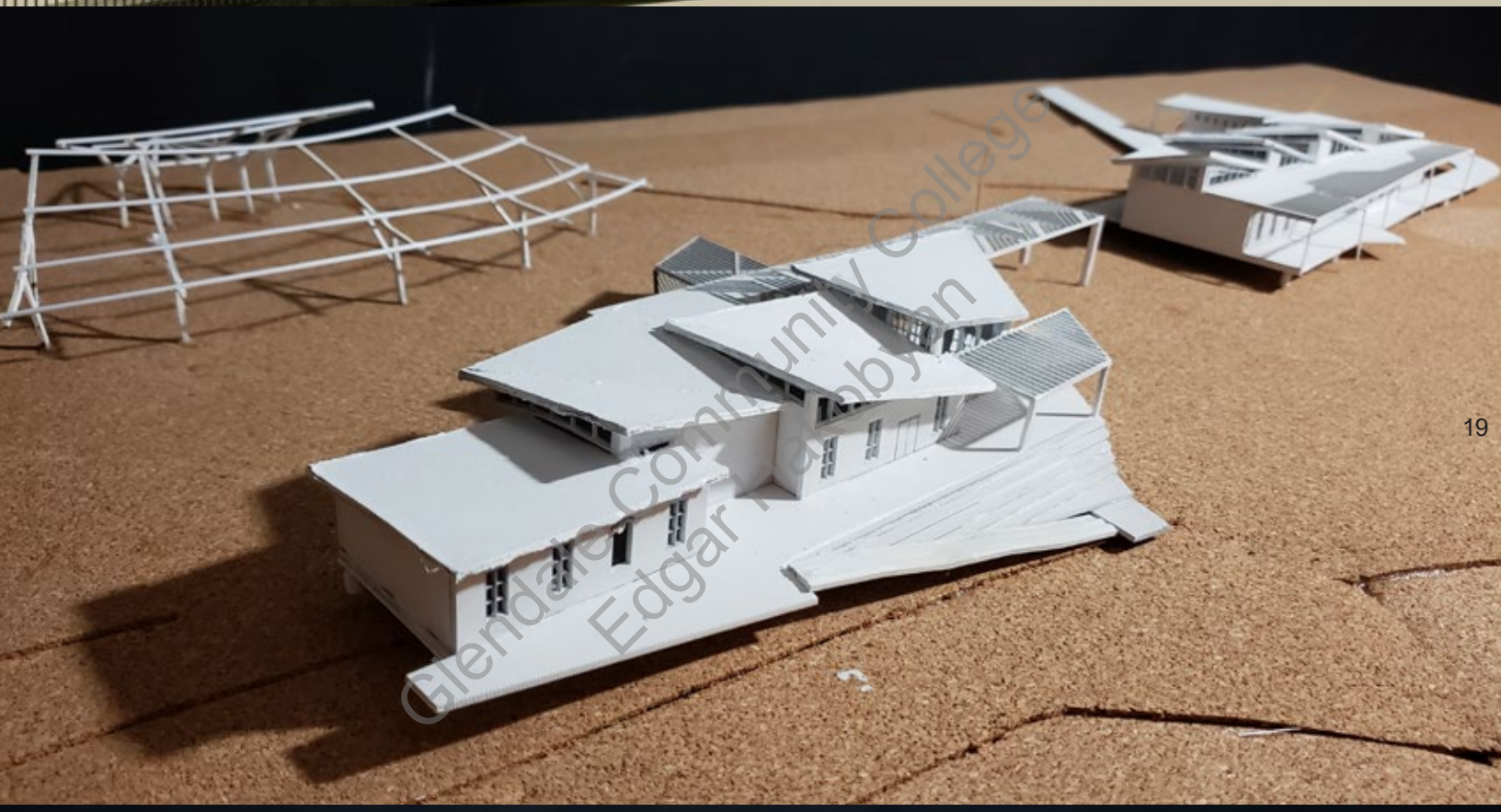
Lateral Section

Celestial windows provide airflow for the cool air to enter the facility and the hot air to rise and leave the building.

Raised floor provides wind to flow underneath the building to provide extra cooling



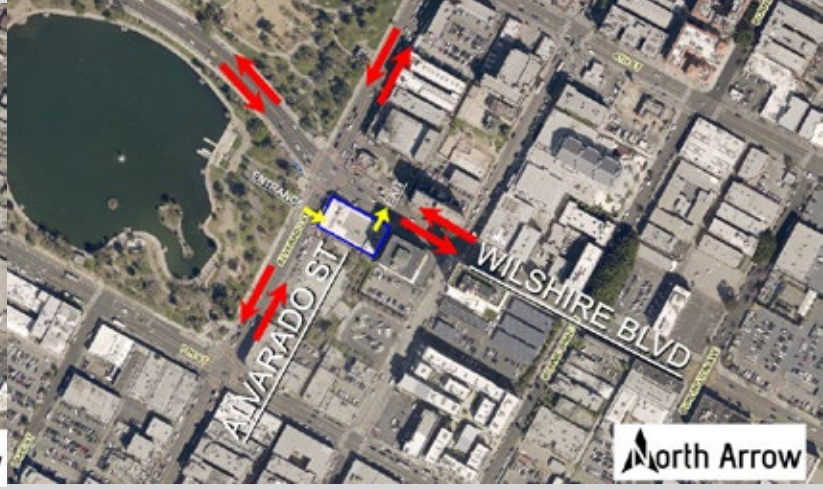
Longitudial Section



Mix Use Project at MacArthur Park

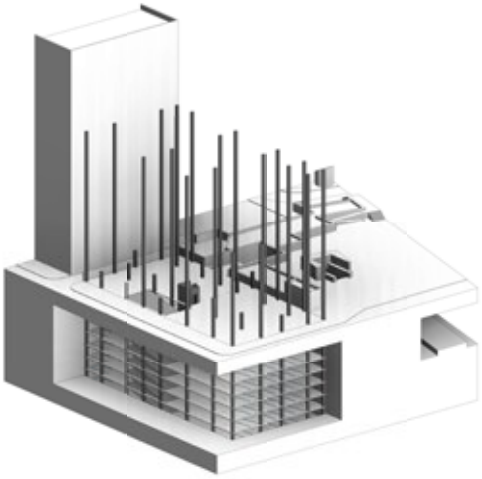
Commercial Arch. Design II - Arch 135
Class Project
Instructor: Paul Chiu
Glendale Community College Summer 2019

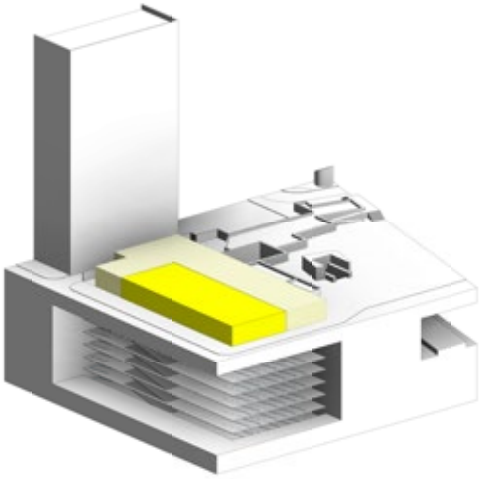
SITE ANALYSIS



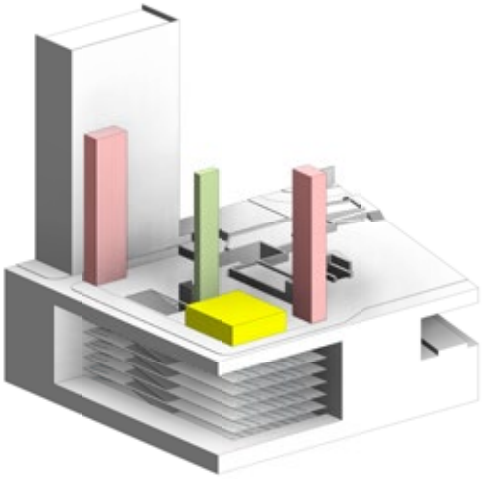
TRAFFIC WAYS

The mix use projet at MacArthur park is located at the corner of S. Alvarado and Whilshire Blvd; 650 S Alvarado St. The building faces the MacArthur park on the east side, the Downtown LA on the west side, and the Westlake Village on the south-east side. The primary concept of the building is to provide community and housing soultions to the society while securing the peace of the residents and the public. The project includes Child Care Center, Neighborhood Community Center, 25 Housing spaces, direct connection to the nearby metro station, undeground parking.
The design of the circulation allows individuals to access certain parts of the building without interfering with other programs.

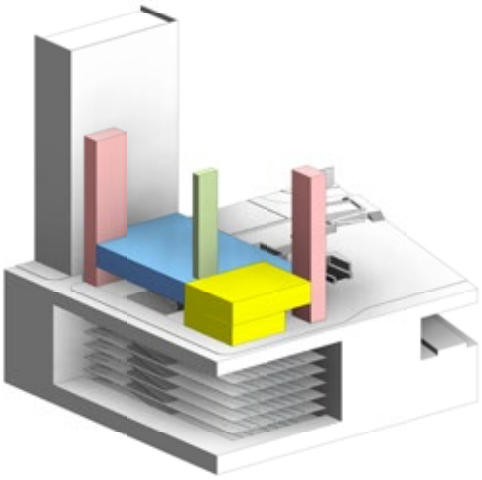




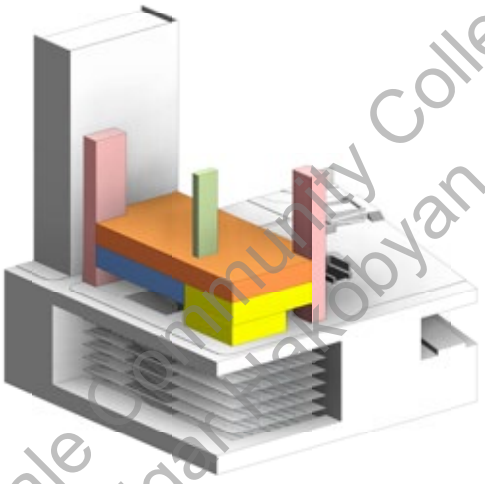
Ground Floor
Parking Void



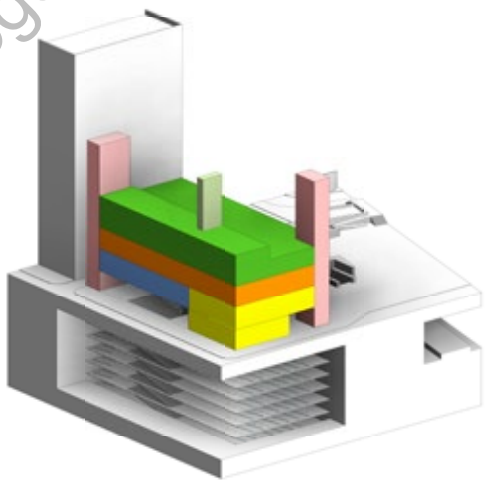
Retail
Stair Circulation
Elevator Circulation



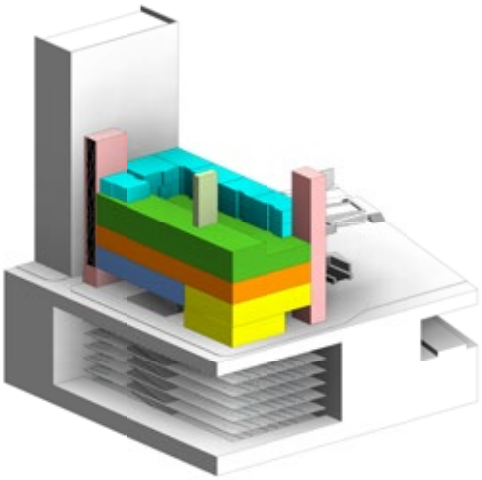
Second Floor Retail
Assembly Space



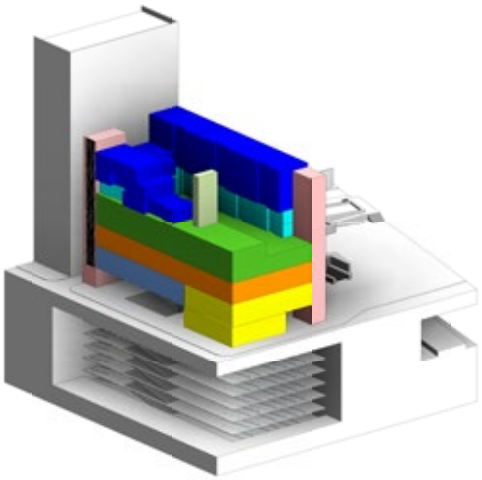
Restaurant, Bar &



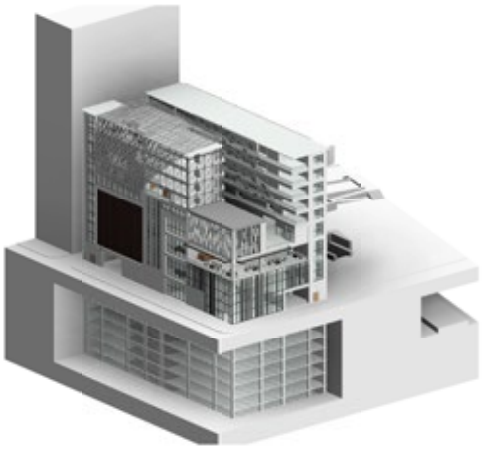
Childcare Center & Play



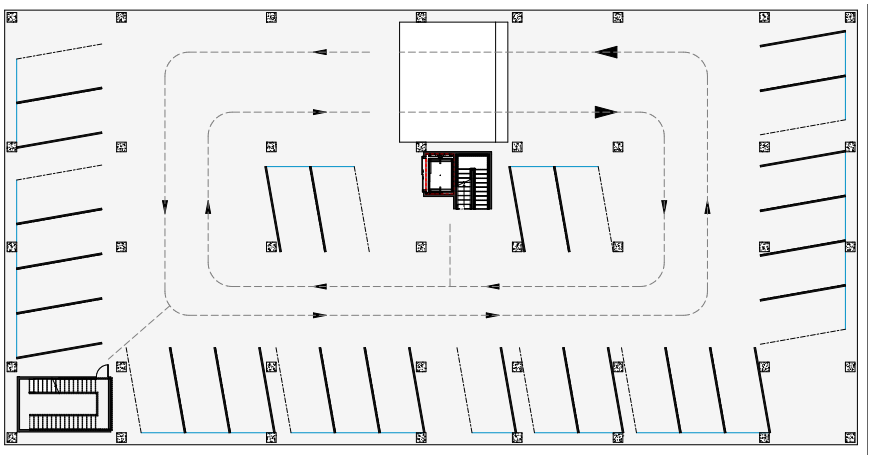
10x One Bedroom Appartments



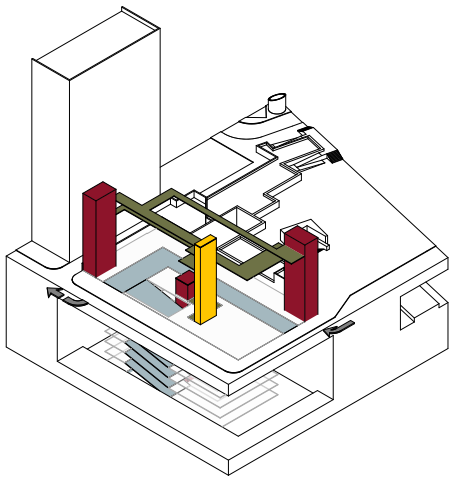
15x Two Bedroom



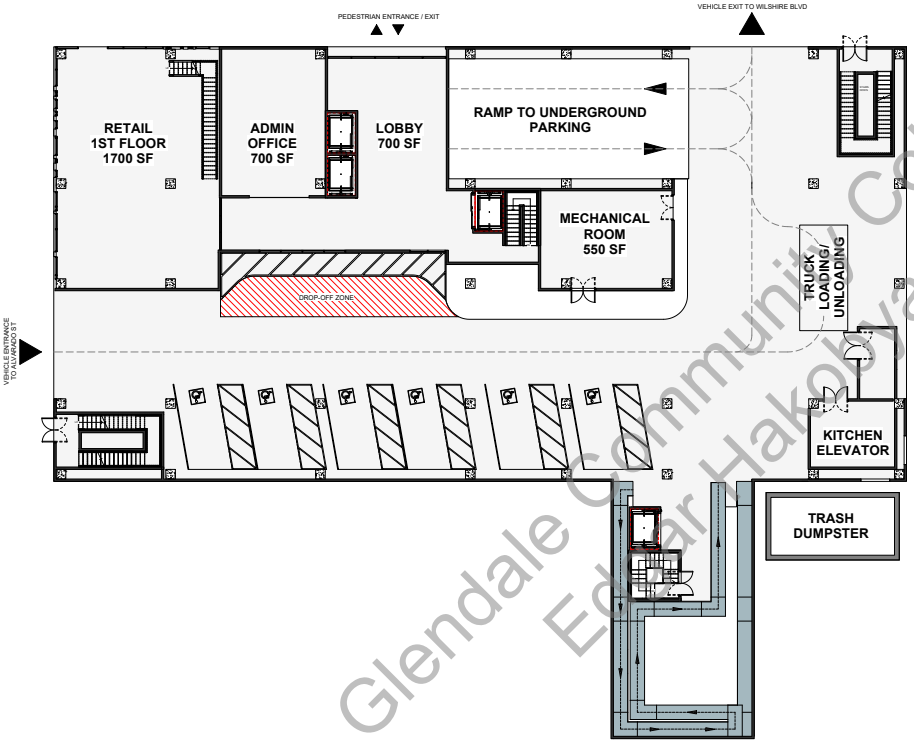
3D Model



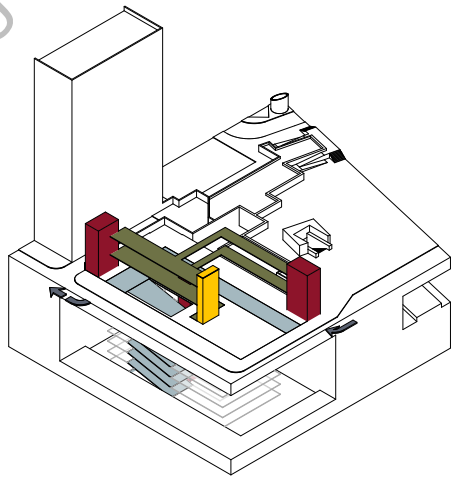
P1-P8 Floor Plan



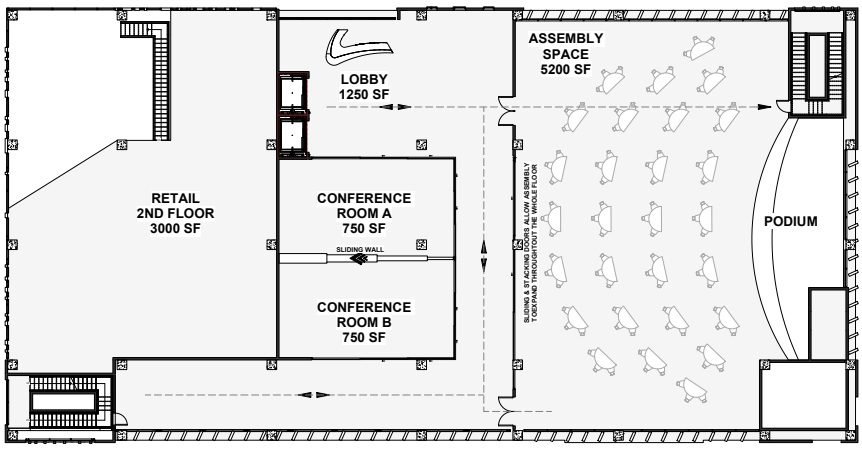
Horizontal Circulation
Vertical Circulation
Elevator
Car Circulation



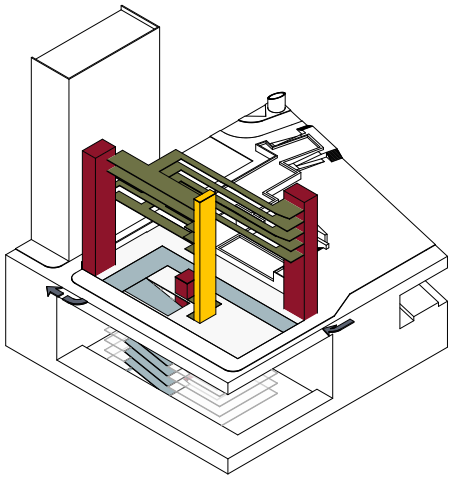
Ground Floor Plan



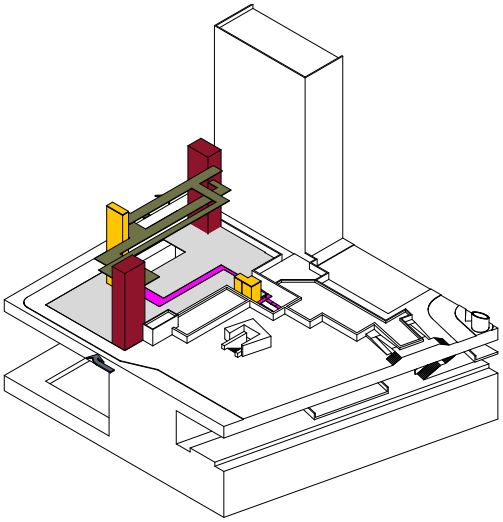
Horizontal Circulation
Vertical Circulation
Elevator
Car Circulation



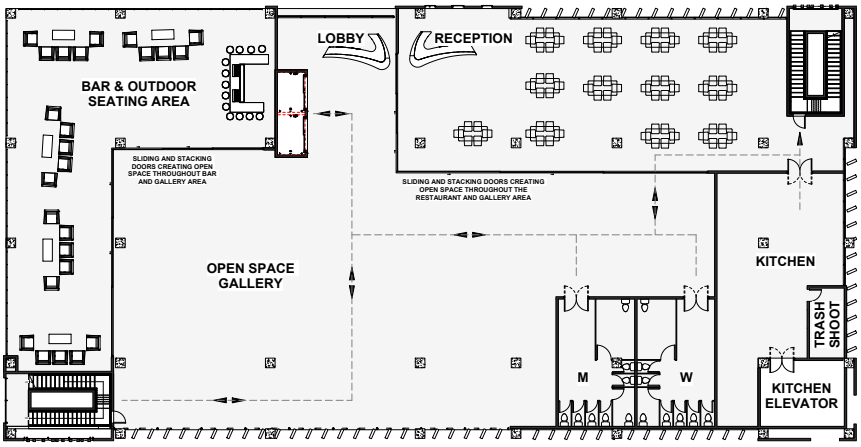
Community Center



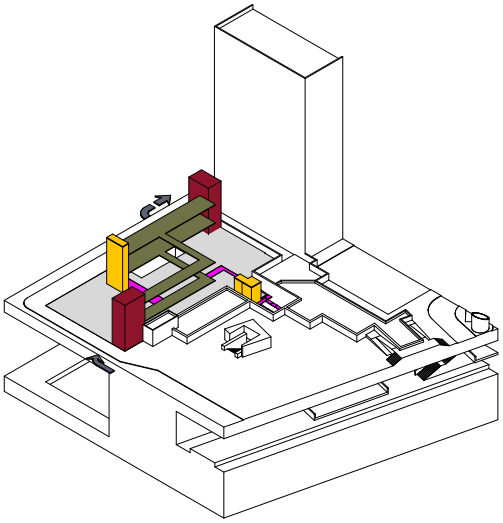
Horizontal Circulation
Vertical Circulation
Elevator
Car Circulation



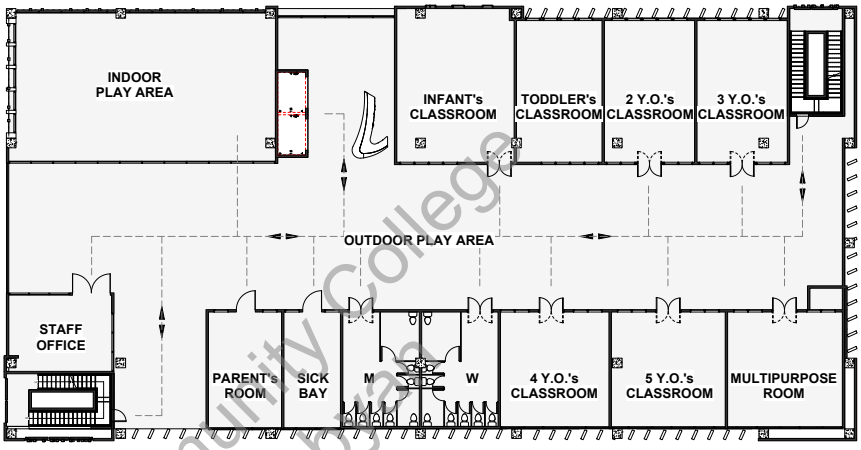
Horizontal Circulation
Vertical Circulation
Elevator
Metro Circulation



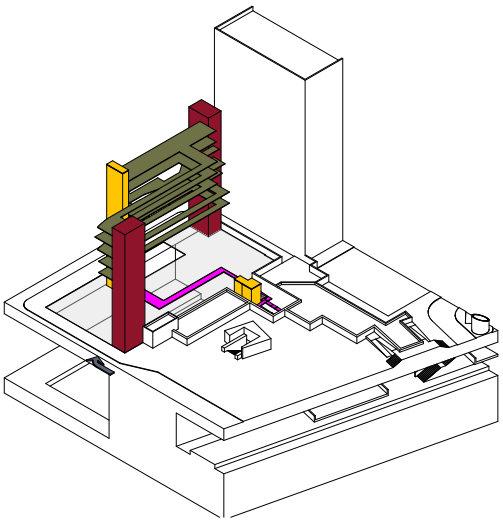
3rd Floor Plan



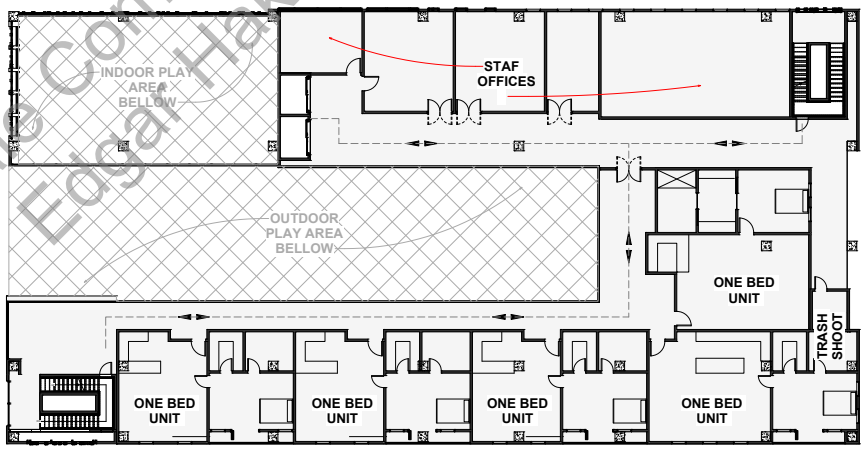
Horizontal Circulation
Vertical Circulation
Elevator
Metro Circulation



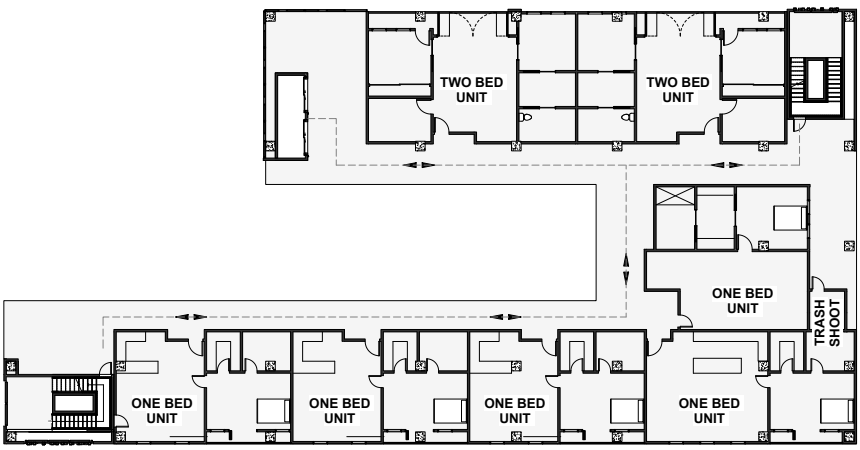
4th Floor Plan



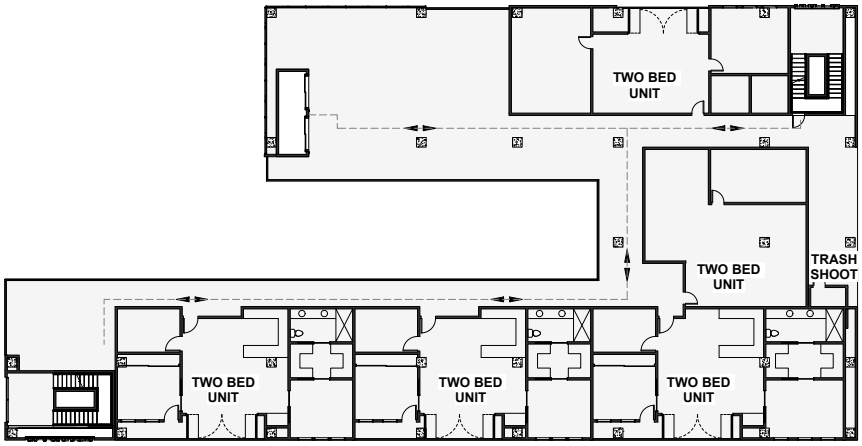
Horizontal Circulation
Vertical Circulation
Elevator
Metro Circulation



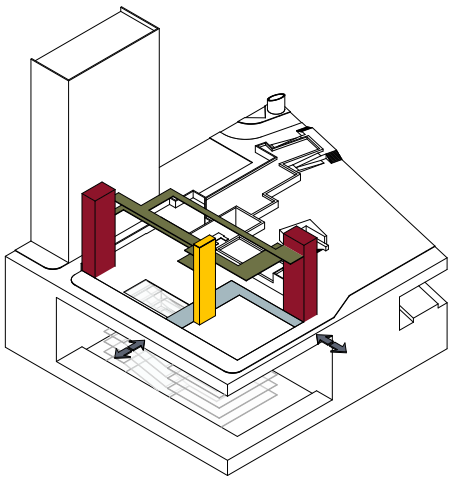
5th Floor Plan



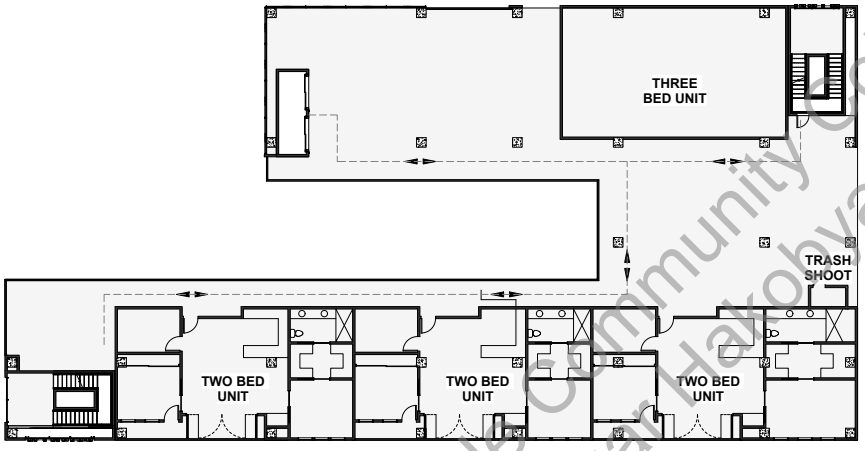
6th Floor Plan



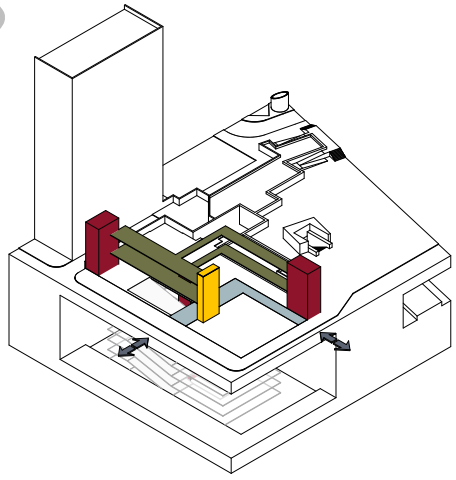
7th Floor Plan



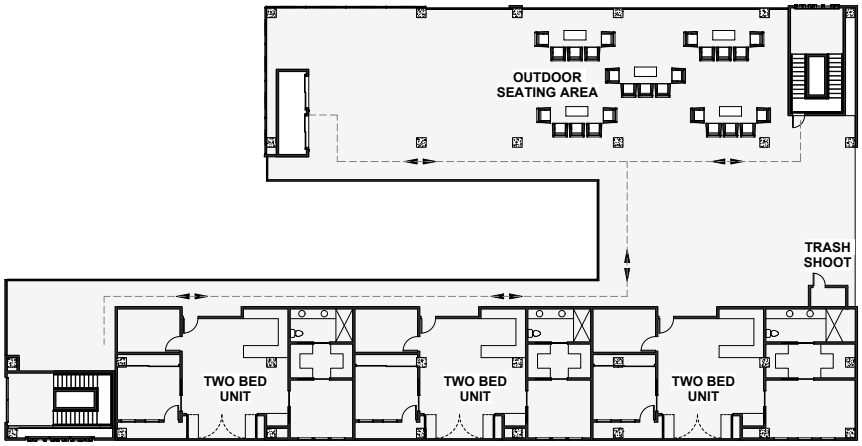
Horizontal Circulation
Vertical Circulation
Elevator
Pedestrian Circulation



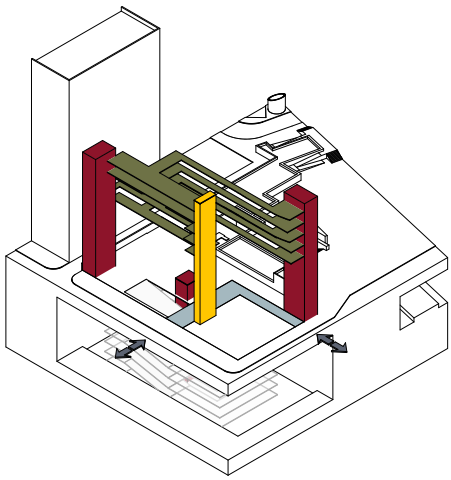
8th Floor Plan



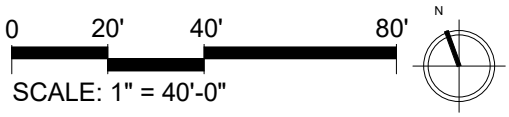
Horizontal Circulation
Vertical Circulation
Elevator
Pedestrian Circulation



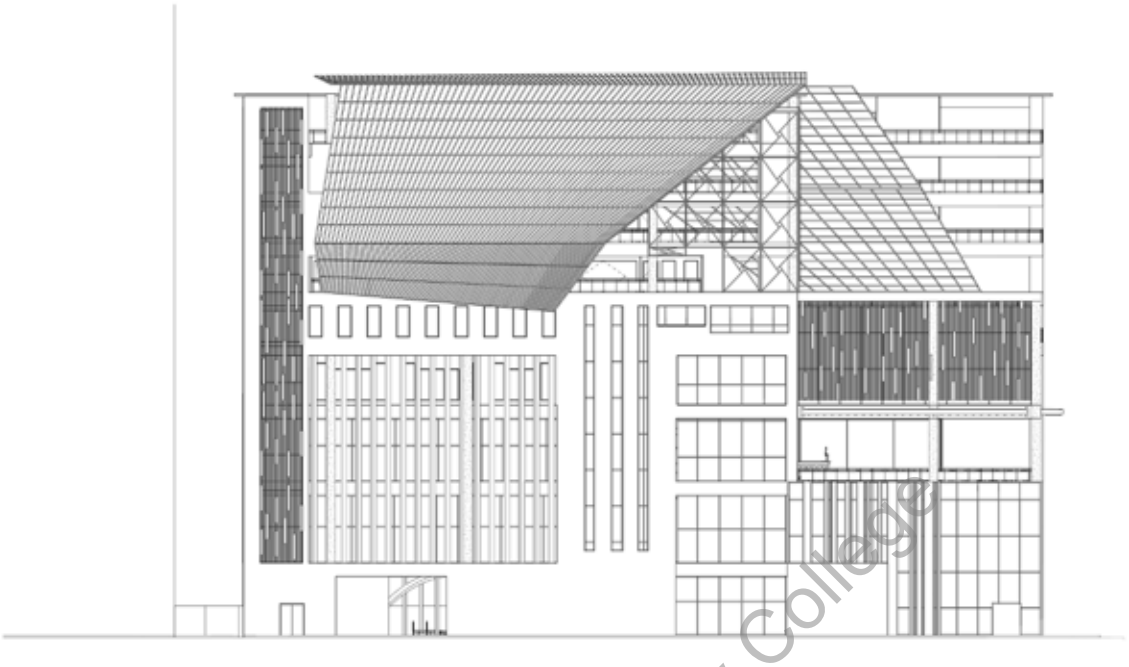
9th Floor Plan



Horizontal Circulation
Vertical Circulation
Elevator
Pedestrian Circulation



SCALE: 1" = 40'-0"

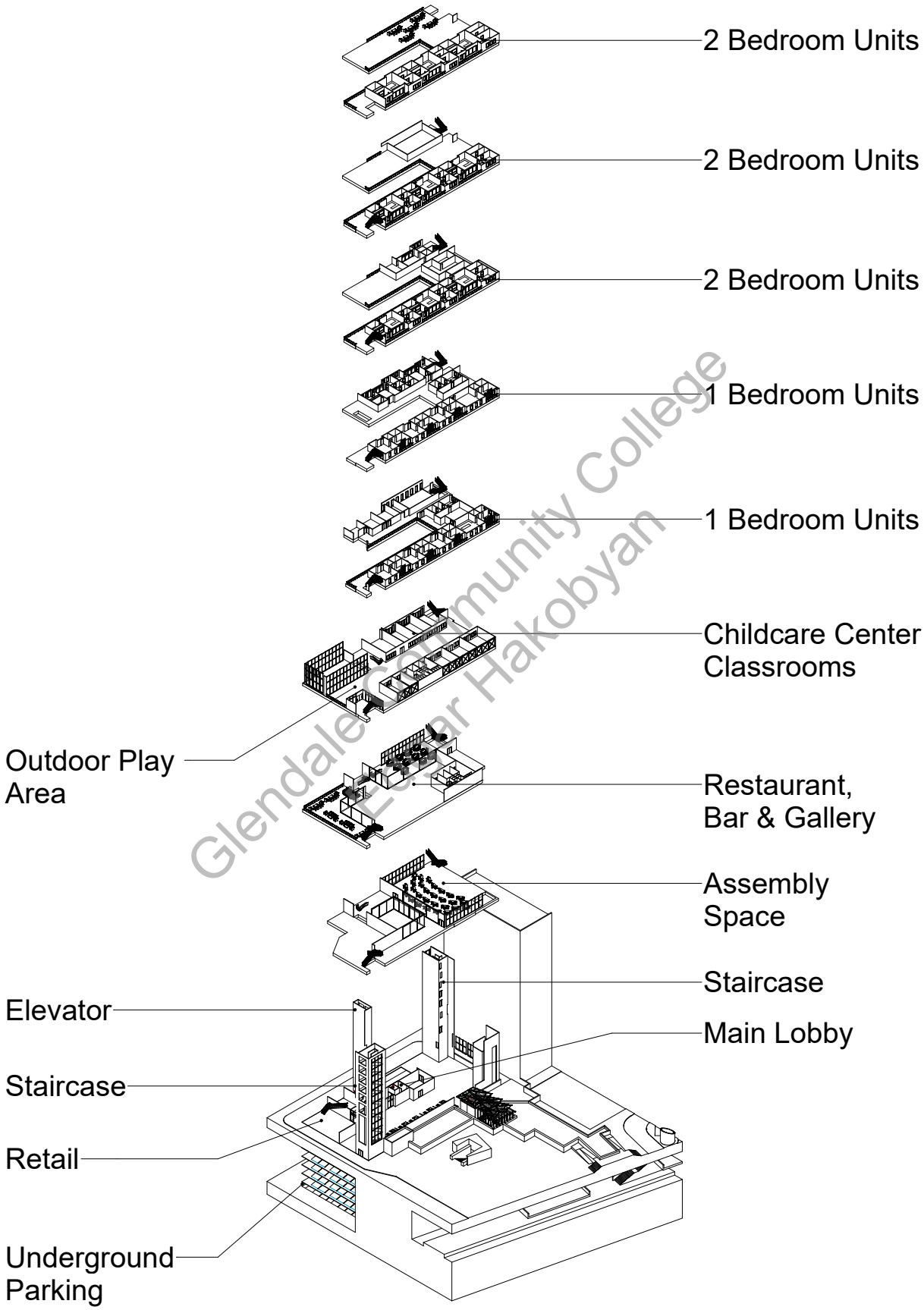


North Elevation

West Elevation

0 25' 50' 100'

SCALE: 1" = 50'-0"



Kaira Looro Competition 2018

Group Project (Edgar Hakobyan, Armen Karapetyan, Davit Mkrtchyan)

Location: Sedhiou, Senegal

MARK OF
SERENITY

Market

ADINKA SYMBOLS:
COMMITEMENT

GREATNESS

LOYALTY

Loyalty, commitment, and greatness. Three perspectives and meanings that correlate with each other in ways that potentially unify mankind with one another. Mark of Serenity brings these terms together using West African symbols, which are then utilized **architecturally**

CONCEPT

Loyalty is defined as faithfulness or faithful adherence to a person, government, cause, duty, etc. The Families of the fallen victims stay loyal to their own. We use this as a sign of remembrance. The stay loyal to the thought of peace amongst mankind. The memorial room connects all rooms together. Loyalty plays along all the connection of the rooms reason.

Commitment is the agreement or pledge to do something in the future. With this in mind and at heart, we want to influence all those to be committed to the pursuit of peace and serenity. Those who stay committed to achieving peace on earth is represented with these four rooms: Prayer room, Exhibition room, History/Awareness Room, and Maker Space/Study Room

Greatness is the quality of being great, distinguished, or eminent. After achieving peace on earth, there will be greatness roaming throughout the world amongst mankind. Every human is capable of doing great things. Greatness is represented with the roof. The reason why we have these two represented with this symbol is because this is what ties everything together.

Materials

Red Clay- used for al exterior walls as a building material
Cement- mixed with shells to produce concrete like mixture for structural support of vertical columns
Shells- used as aggregate in mixture of cement to give it extra strength
Straws- used as a roof covering material with pre made rolls of straw sheets
Lumber- used as a vertical column to support the roof and skeleton in exterior walls
Bamboo- used as a decorative material in the middle as a symbol of greatness
Construction nails- used for the joing of lumber, they are bendable and do not break during earthquake tilting and they are also very durable.
Fabrics- waste materials will be used to be sawed together and produce mosaic texture fabrics to decorate and provide seating covers for certain parts of the site.

Construction process

30

We will begin the construction with finding the location of where Mark of Serenity should be built. Set back from both the street and the south side of the property line by 16.7m and 14.6m from the east side property line. Begin by marking the center of the memorial. With a 6m radius form a complete circle on the land. Then by begining at the northeast angle make sure you have 8m distance from the center of the memorial to the prayer room. The room is 4m in diameter by creating a full circle. The following other 3 rooms are at 90 degrees from each other with the origin being in the center of the memorial. Placing them each at northeast, southeast, southwest, and northwest. The enterance of the rooms are located where the 4 room's circle intersects with the memorial circle.

MATERIALS	QUANTITY	PRICE PER QUANTITY IN FCFA	TOTAL PRICE FCFA	TOTAL PRICE EURO
CLAY	77.6 m ton	50000	3880000	EUR 5,923.66
CEMENT	2.5 m^3	131000	327500	EUR 500.00
SHELLS	4.6 m tons	150	690150	EUR 1,053.66
STRAWS	36 rolls	11678.65	420431.4	EUR 641.88
LUMBER	11 m^3	320950	3530450	EUR 5,390.00
BAMBOO	28 pieces	2500	70000	EUR 106.87
NAILS	906 pieces	818	741108	EUR 1,131.46
FABRICS: waste fabric is sawed together to make mosaic fabric texture				EUR 0.00

Once the places are marked we will begin making 15 distinctive marks where we will be digging 0.5m holes to later fill with concrete in order to erect our wooden frame that is 4.3m tall on its tallest end and 3m tall on its shortest end. for the 4 rooms. The memorial stands at 5.5 meters and concaves inward to 4.3m tall.

Once we have our wooden framing, we will then be covering the 4 rooms (excluding the memorial) with 2.5 meters of red clay.

The roof will be held by the frame as they are connected with each other horizontally. The roof is made of straws (palm leaves).

Lastly, the center of the memorial we will be digging a small water resovior in the shape of the greatness symbol. The hole is 1m wide.

Central piece of the pavilion symbolizing greatness

Memorial room of the pavilion symbolizing loyalty

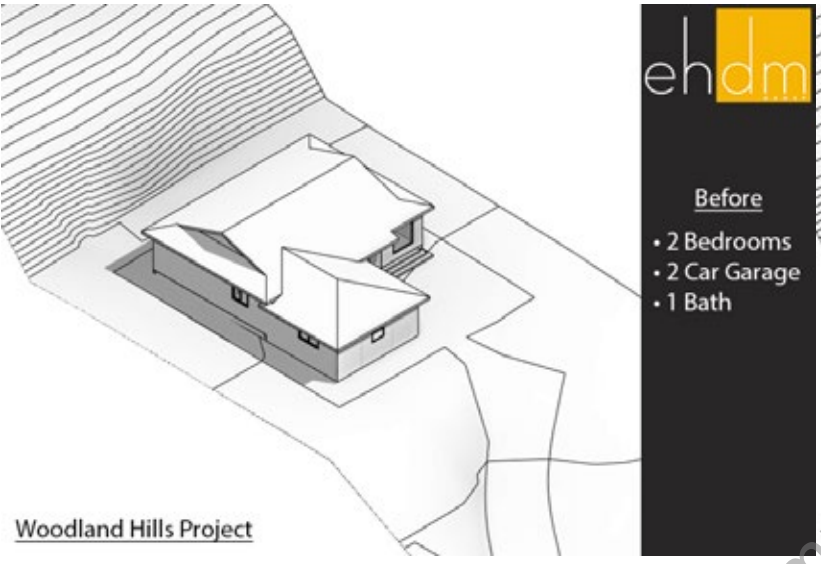
The Gallery of the pavilion symbolizing commitment.

Three Step House

Residential Architecture 2020

Company: EHDM Group Inc.

Address: 22154 Avenue San Luis, Woodland Hills, CA 91364



ehdm

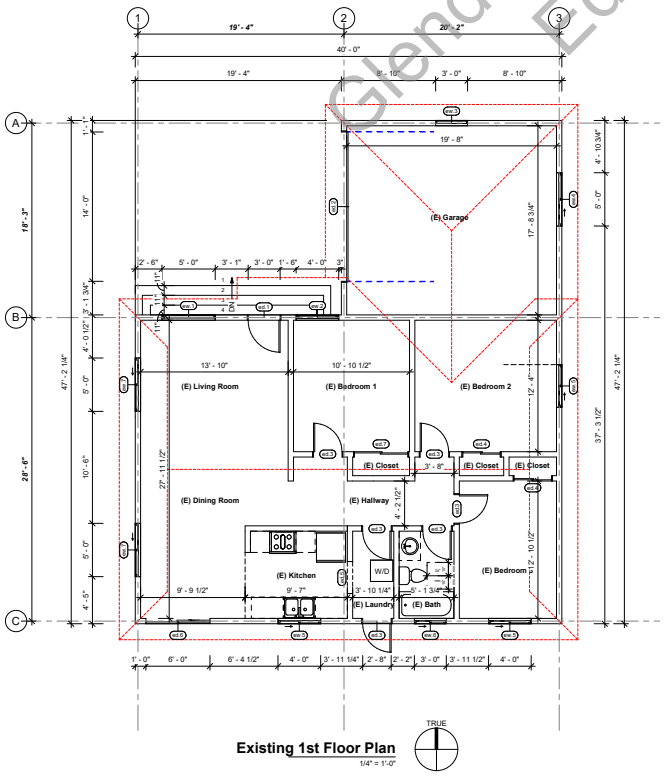
Before

- 2 Bedrooms
- 2 Car Garage
- 1 Bath

ehdm

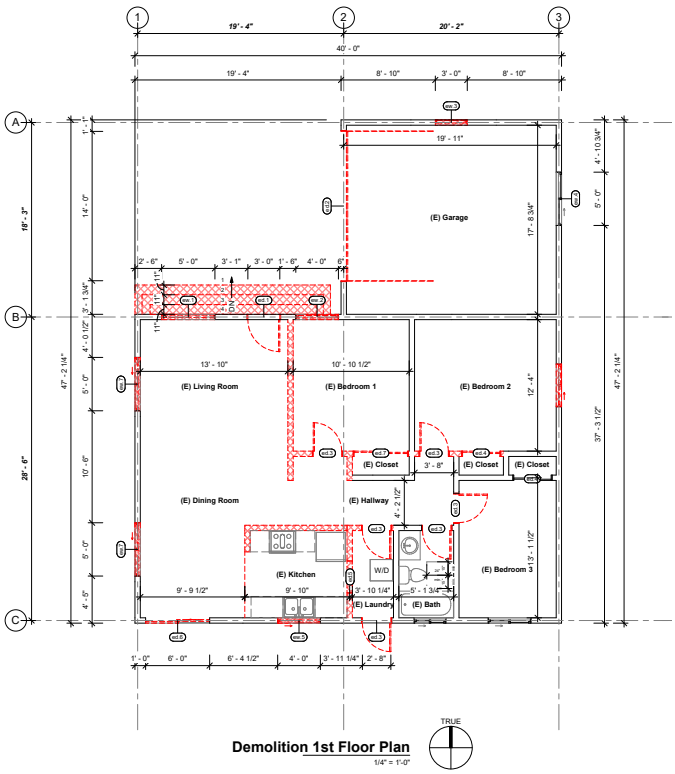
After

- 4 Bedrooms
- 2 Car Garage
- 3.5 Baths
- 2 Rooftops
- Modern look
- 10' Ceilings
- Great Balcony view
- Interior Remodel



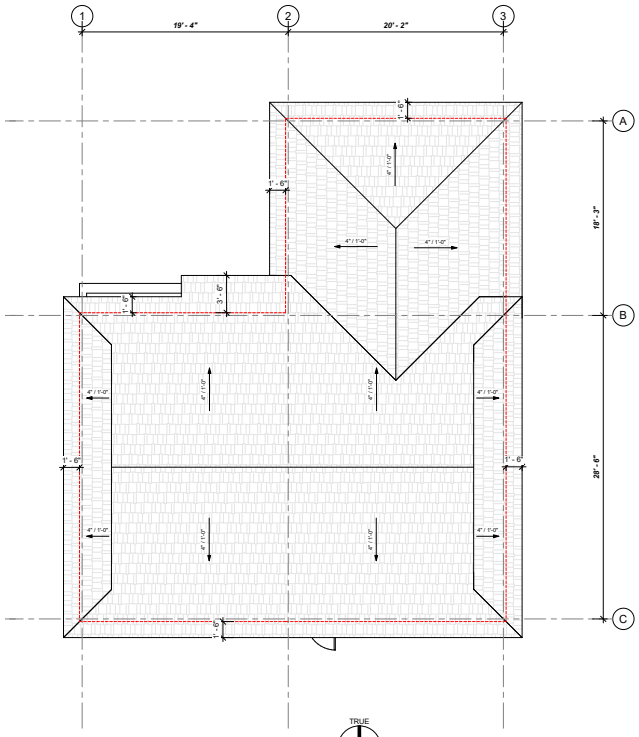
Existing 1st Floor Plan

1/4" = 1'-0"

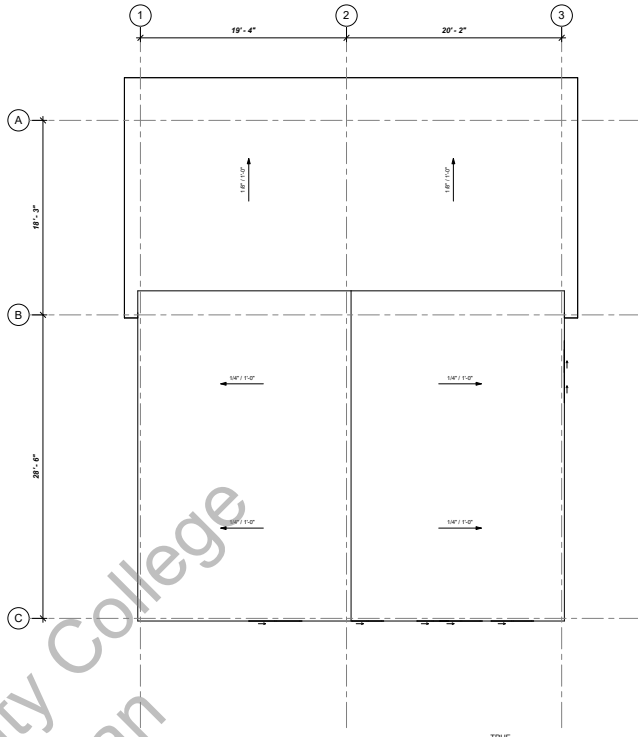


Demolition 1st Floor Plan

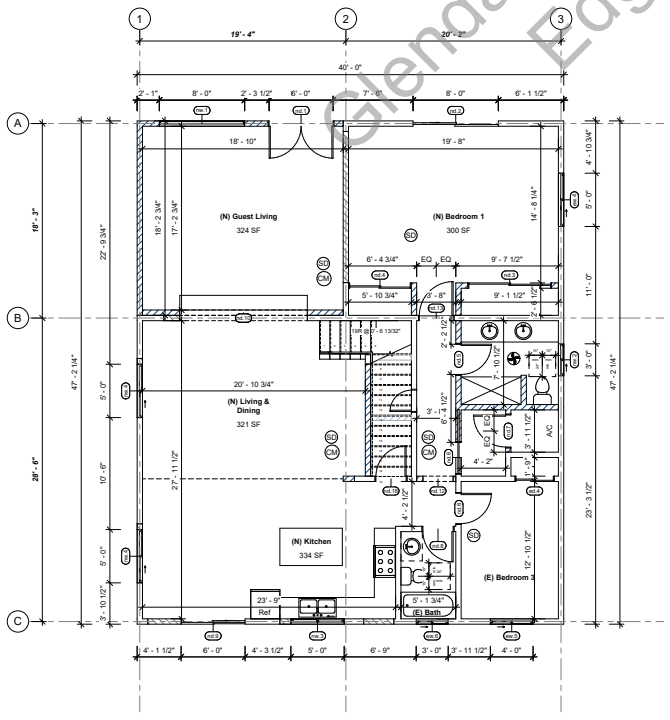
1/4" = 1'-0"



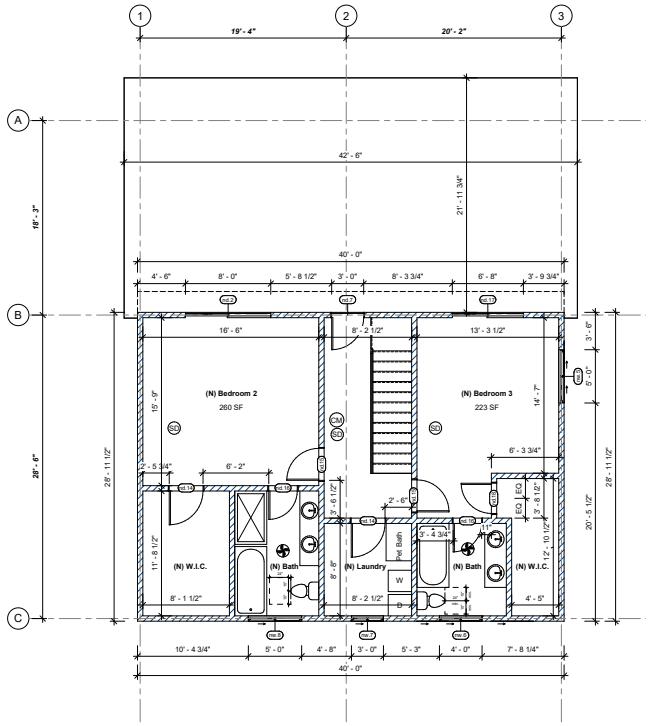
Existing Roof Plan
1/4" = 1'-0"



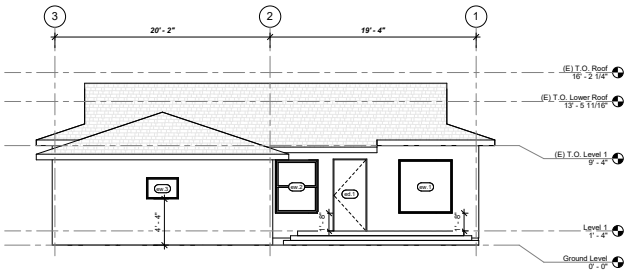
Proposed Roof Plan
1/4" = 1'-0"



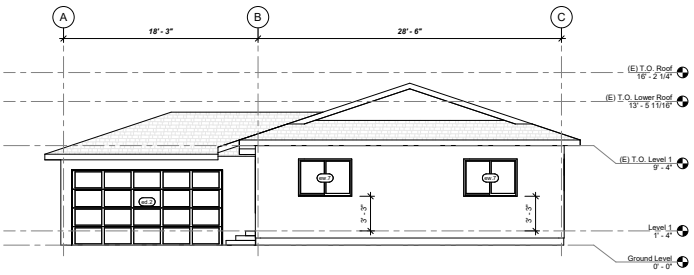
Proposed 1st Floor Plan
1/4" = 1'-0"



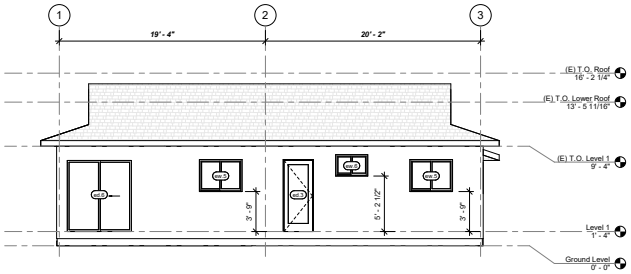
Proposed 2nd Floor Plan
1/4" = 1'-0"



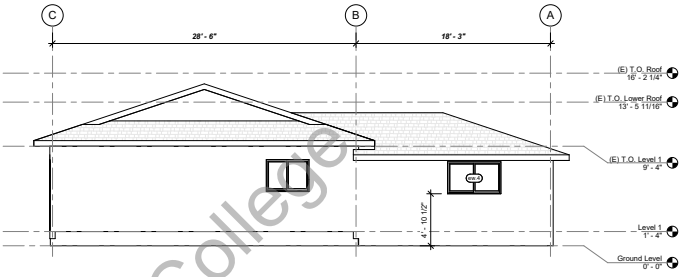
Existing North
1/4" = 1'-0"



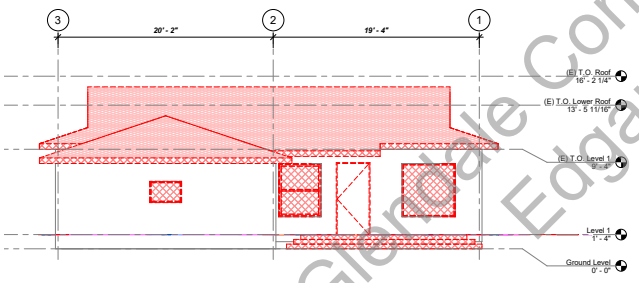
Existing West
1/4" = 1'-0"



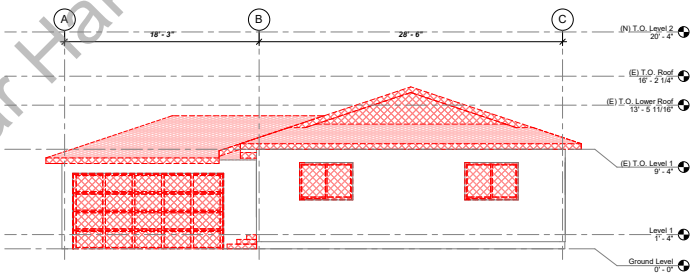
Existing South
1/4" = 1'-0"



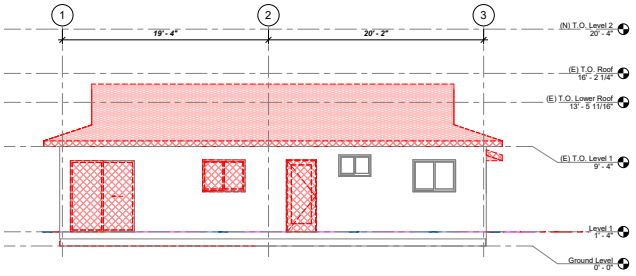
Existing East
1/4" = 1'-0"



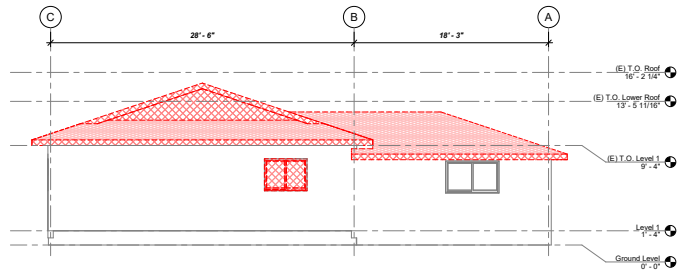
Demolition North
1/4" = 1'-0"



Demolition West
1/4" = 1'-0"

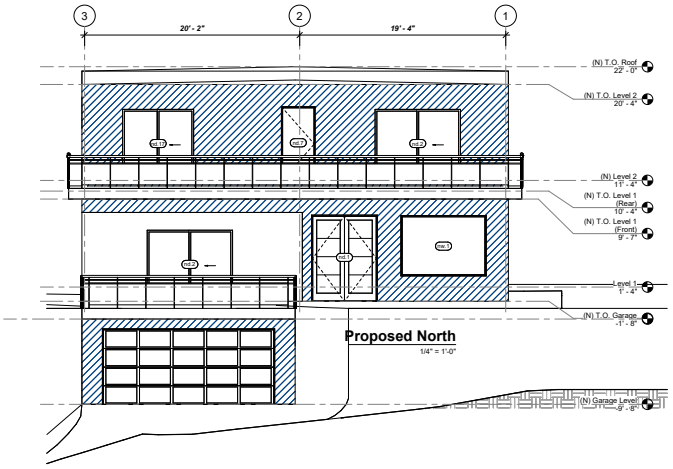


Demolition South
1/4" = 1'-0"

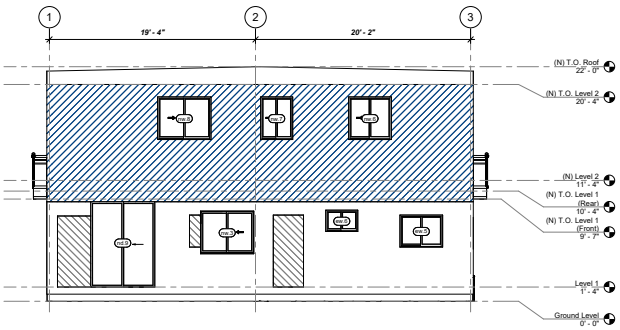


Demolition East
1/4" = 1'-0"

PHASE LEGEND	
	EXISTING
	DEMOLISHED
	DEMOLISHED INFILL
	NEW



Proposed North
1/4" = 1'-0"



Proposed South
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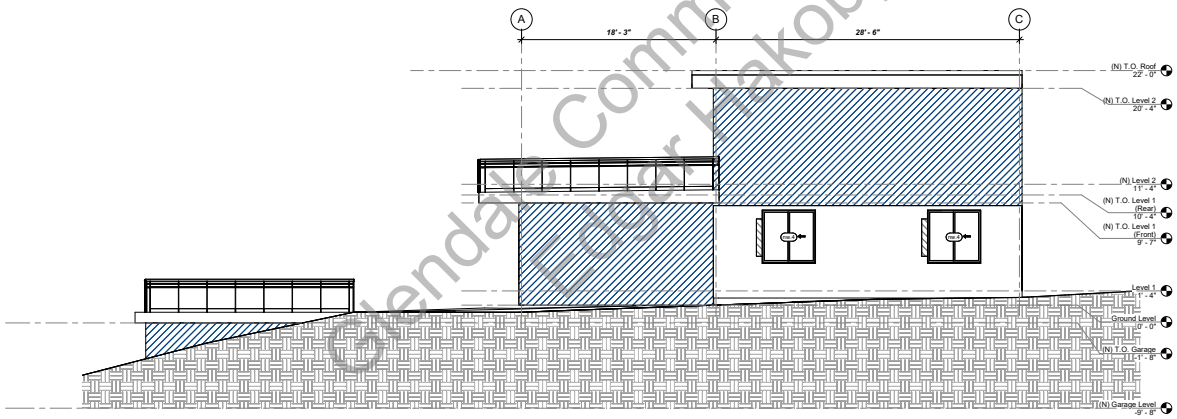
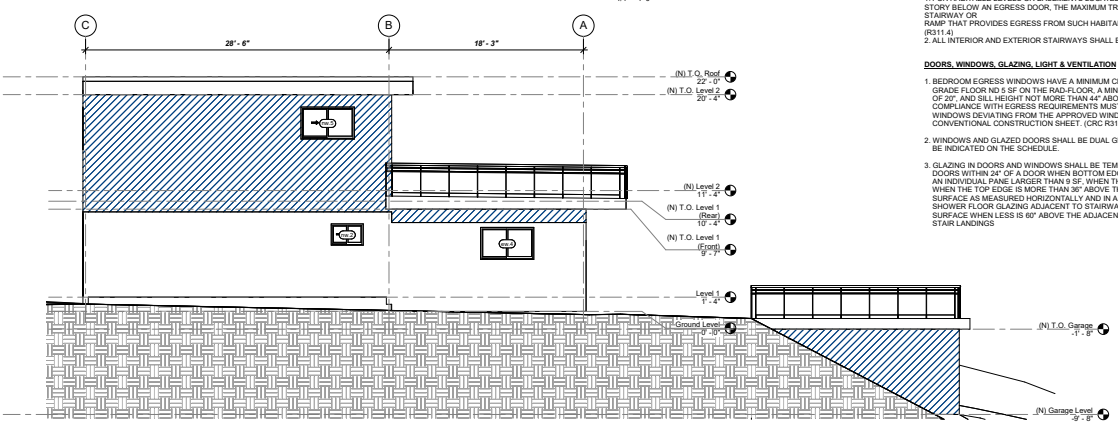


Proposed West
1/4" = 1'-0"



Proposed East
1/4" = 1'-0"

MEANS OF EGRESS

1. FOR HABITABLE LEVELS OR BASEMENTS LOCATED MORE THAN ONE STORY ABOVE OR MORE THAN ONE STORY BELOW AN EGRESS DOOR, THE MAXIMUM TRAVEL DISTANCE FROM ANY OCCUPIED POINT TO A STAIRWAY OR RAMP THAT PROVIDES EGRESS FROM SUCH HABITABLE LEVEL OR BASEMENT, SHALL NOT EXCEED 50 FEET (R311.4)
2. ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE ILLUMINATED. (R303.7 & R303.8)

DOORS, WINDOWS, GLAZING, LIGHT & VENTILATION

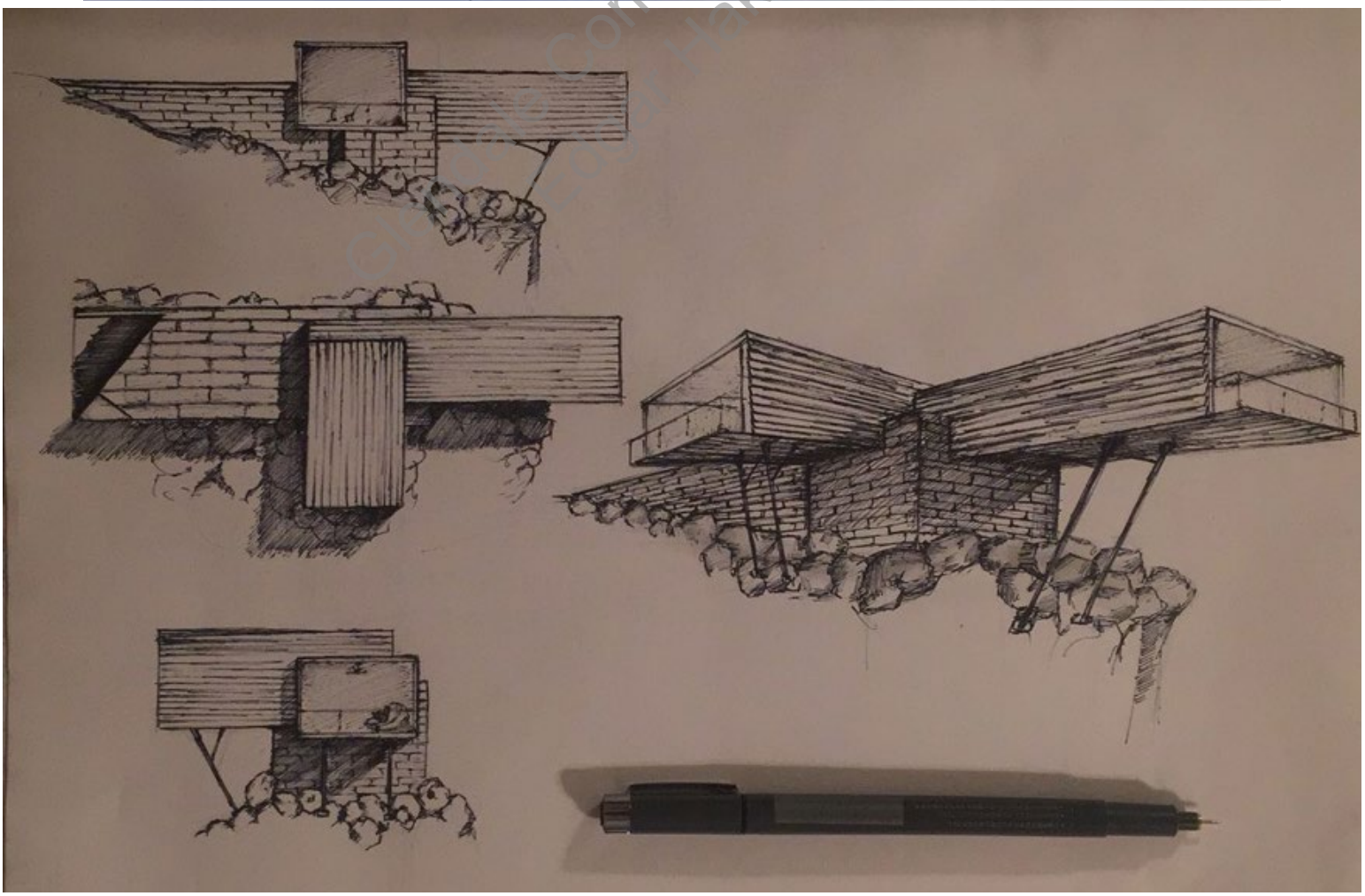
1. BEDROOM EGRESS WINDOWS HAVE A MINIMUM CLEAR OPENING AREA OF 5.7 SF WHEN ABOVE THE GRADE FLOOR ND 5 SF ON THE RAD-FLOOR, A MINIMUM NET HEIGHT OF 24" AND MINIMUM NET WDITH OF 20", AND SILL HEIGHT NOT MORE THAN 44" ABOVE FINISH FLOOR. MANUFACTURER'S DATA SHOWING COMPLIANCE WITH EGRESS REQUIREMENTS MUST BE REPRODUCED ON THE DRAWINGS FOR ANY WINDOWS DEVIATING FROM THE APPROVED WINDOW SIZES SHOWN ON THE CITY OF BURBANK CONVENTIONAL CONSTRUCTION SHEET. (CRC R310.1)

2. WINDOWS AND GLAZED DOORS SHALL BE DUAL GLAZED AND THE WINDOW U-FACTOR AND SHGC MUST BE INDICATED ON THE SCHEDULE.

3. GLAZING IN DOORS AND WINDOWS SHALL BE TEMPERED (CRC R308.4): IN OPERABLE PANELS OF DOORS WITHIN 24" OF A DOOR WHEN BOTTOM EDGE IS LESS THAN 60" ABOVE A WALKING SURFACE IN AN INDIVIDUAL PANE LARGER THAN 9 SF, WHEN THE BOTTOM EDGE IS WITHIN 18" OF THE FLOOR, WHEN THE TOP EDGE IS MORE THAN 36" ABOVE THE FLOOR, AND WHEN WITHIN 36" OF A WALKING SURFACE AS MEASURED HORIZONTALLY AND IN A STRAIGHT LINE IN RAILINGS WITHIN 60" OF TUB OR SHOWER FLOOR GLAZING ADJACENT TO STAIRWAYS, LANDINGS, AND RAMPS WITHIN 36" OF A WALKING SURFACE WHEN LESS IS 60" ABOVE THE ADJACENT WALKING SURFACE WITHIN 60" OF STAIRS AND STAIR LANDINGS

PHASE LEGEND	
	EXISTING
	DEMOLISHED
	DEMOLISHED INFILL
	NEW

Personal Work
Renderings & Drawings



Thank you for your time