

# MANOJ KUMAR KOYYALAMUDI

## E-MAIL

mk2248@njit.edu  
manojkoyyalamudi@outlook.com

## PHONE

+1 - 551 349 4810

## CREDENTIALS

COA LICENCED ARCHITECT, INDIA  
earned december / 2019

I am a graduate student Architect, and my goal moving forward is to combine my creative thinking skills and passion for design to solve contemporary design problems and create a beautiful, functional and resilient environment.

**Portfolio Link :** <https://manojkumarkoyyalamudi.crevado.com/>

## HONORS

### AWARDED BEST ARCHITECT FOR BEST BUILT COMMERCIAL BUILDING IN VISAKHAPATNAM-2021

Presented by Indian Concrete Institute (ICI) and Ultratech Cement India Ltd. at Concrete Excellence Awards-2021 - Vijayawada Chapter

### SHORTLISTED FOR LOUIS I KAHN TROPHY

annual nasa / 2016 / role - video documentation / case study

### SPECIAL MENTION FOR ANNUAL NASA DESIGN COMPETITION

annual nasa / 2015 / role - video documentation / case study / literature study

## WORK EXPERIENCE

### HATFIELD GROUP, NEW YORK - FACADES - INTERN

Jan 2024 - Present

Working as a Facade intern in Hatfield Group Engineering DPC, New York.  
Building Performance Analysis, Energy Compliance Check, Facade detail drawings.

### SCALE DESIGNS, HYDERABAD, INDIA - JR.ARCHITECT

Sept 2018 - Feb 2020 / 1 Year 6 Months

Designer in a team for several real world projects namely Mr.Vamsi residence and Reliance corporate office. Worked on planning and interior design for both the projects using Rhinoceros and rendered using Lumion.  
Learned creating several construction details required for the stage wise construction. Gained the real world experience on challenges faced during the construction of a building.

### HONEY GROUP, VISAKHAPATNAM, INDIA - ARCHITECT

July 2020 - June 2022 / 2 Years

Designed and executed the corporate office for Honey Group in visakhapatnam. Worked on planning and interior design using Sketchup, CAD, rendered using Lumion and produced time to time detailed drawings. Later awarded as the best architect for Best Built Commercial Building in Visakhapatnam-2021 by Indian Concrete Institute (ICI) and Ultratech Cement India Ltd..

Also worked on planning layouts, approval drawings which to be submitted to the local bodies governing the construction sector for approval and several facade designs.

## TECHNICAL SKILLS

### 3D MODELING /

Rhinoceros 3D  
Sketchup pro  
Autodesk Revit

### GRAPHICS /

Adobe Creative Cloud Suite  
CAD  
Hand Drafting and Sketching  
Lumion Rendering

### PLATFORMS /

Microsoft office suite  
Google drive applications

### OTHER /

Model Building  
Painting  
Sculpting  
3D Printing

## EDUCATION

### NEW JERSEY INSTITUTE OF TECHNOLOGY - HILLER COLLEGE OF ARCHITECTURE AND DESIGN, MASTER OF ARCHITECTURE

Sept 2022 - May 2024 (Present- Final Semester)

### ACHARYA NAGARJUNA UNIVERSITY - COLLEGE OF ARCHITECTURE AND PLANNING, BACHELOR OF ARCHITECTURE

Sept 2013 - Aug 2018

Studied at Acharya Nagarjuna University and earned a bachelor of Architecture which included 1 year of internship at an Architecture practicing organization. Graduated Aug 2018.

### RELEVANT COURSEWORK /

Architectural design thesis - 4th year 2nd sem  
Inter-Urban Integrated Transportation Hub  
Urban design studio - 4th year 1st sem  
Urban Re-Design - Hanuman Junction, AP, India  
Architectural design studio - 2nd & 3rd year  
Hospital, Performing Art's Centre, Museum, Hostel  
Basic design studio - 1st year  
Design of structures, Building materials, Environmental Control Systems, Building Construction and Climatology, History of Architecture

### EXPERIENCES /

Worked as an intern in FHD Group, Hyderabad, India.  
Sept 2017 - Aug 2018

2 Semesters of Architectural work experience, focussing on Design making skills and software usage in architecture.





# MANOJ KUMAR KOYYALAMUDI

## ARCHITECTURE PORTFOLIO

SELECTED WORKS / 2015-2024 / [MANOJKOYYALAMUDI@OUTLOOK.COM](mailto:MANOJKOYYALAMUDI@OUTLOOK.COM)

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manojkoyyalamudi@outlook.com

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## CREDENTIALS

COA LICENCED ARCHITECT, INDIA

earned december / 2019

## EXPERIENCE

4+ Years which includes 1+ years of Internships and 3 years of Professional Architecture work experience

## INTERESTS / ACTIVITIES

ART /

hand drawing

film making

## HONORS

**BEST ARCHITECT FOR BEST BUILT COMMERCIAL BUILDING IN VISAKHAPATNAM-2021**

Presented by Indian Concrete Institute (ICI) and Ultratech Cement India Ltd. at Concrete Excellence Awards-2021 - Vijayawada Chapter

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role / video documentation / case study

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role / video documentation / case study / literature study

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Rhinoceros 3D

Sketchup pro

**GRAPHICS /**

Adobe Creative Cloud Suite

CAD

Hand Drafting and Sketching

Lumion & Enscape Rendering

**PLATFORMS /**

Microsoft office suite

Google drive applications

**OTHER /**

QGIS

Model Building

Sculpting

3D Printing

My passion is Architecture, but i also love many other forms of physical and graphical design. I am a quick learner and constantly trying new mediums to broaden my skills as a designer.

I am a Graduate Student, and my goal moving forward is to combine my creative thinking skills and passion for design to solve contemporary design problems and create a beautiful, functional and resilient environment.

## EDUCATION

**MASTER OF ARCHITECTURE – NEW JERSEY INSTITUTE OF TECHNOLOGY – HILLER COLLEGE OF ARCHITECTURE AND DESIGN, NEW JERSEY, UNITED STATES OF AMERICA**

Fall 2022 - Spring, May 2024 (Graduation Day)

Studying M.Arch at NJIT, NJ. Currently in Last Semester and my aspired Graduation Date is May 2024. Worked on a Multi-Utility Housing Project in Fall 2022, Museum Redevelopment project in Spring 2023, another Museum project in Fall 2023 in Venice, Italy and currently in Spring 2024 working on FDR Library in Roosevelt Island, NYC.

**BACHELOR OF ARCHITECTURE – ACHARYA NAGARJUNA UNIVERSITY – COLLEGE OF ARCHITECTURE AND PLANNING, ANDHRA PRADESH, INDIA**

Sept 2013 - Aug 2018

Studied at Acharya Nagarjuna University and earned a bachelor of Architecture which included 1 year of internship at a practicing organization.

## RELEVANT COURSEWORK /

Architectural design thesis - 4th year 2nd sem

Urban design studio - 4th year 1st sem

Architectural design studio - 2nd & 3rd year

Basic design studio - 1st year

Design of structures, Building materials.

## EXPERIENCES /

Worked as an intern in FHD Group, Hyderabad, India.

2 Semesters of Architectural work experience, focussing on Design making skills and software usage in Architecture.

## WORK EXPERIENCE

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Jan 2024 - Present

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July 2020 - June 2022 (2 Years)

Designed and executed the corporate office for Honey Group in visakhapatnam. Worked on planning and interior design using Sketchup, CAD, rendered using Lumion and produced time to time detailed drawings. Later awarded as the best architect for Best Built Commercial Building in Visakhapatnam-2021 by Indian Concrete Institute (ICI) and Ultratech Cement India Ltd..

**SCALE DESIGNS, HYDERABAD, INDIA – JR.ARCHITECT**

Sept 2018 - Feb 2020 (1.5 Years)

Designer in a team for several real world projects namely Mr.Vamsi residence and Reliance corporate office. Worked on planning and interior design for both the projects using CAD, Rhinoceros and rendered using Lumion.

# PROJECTS

Graduate Advanced Arch. Design Studio - I : Canaletto Museun, Venice, Italy	04-07
Graduate Arch. Design Studio - IV : Jazz Link - Museum Redevelopment, Newark, New Jersey	08-11
Graduate Arch. Design Studio - III : United Living - Multi-Utility Housing, Red Hook, Brooklyn, New York	12-15
UG-Design Thesis : Inter-urban Integrated Transportation Hub, Amaravathi	16-17
UG-Urban Design : Redevelopment of Hanuman Junction, Andhra Pradesh	18-19
UG-Architectural Design Studio III - Function Hall, Vijayawada	20
UG-Architectural Design Studio IV - Centre for Performing Arts, Vijayawada	21
GM Mall - Bangalore	22
Co-Working Space - Hyderabad	23
The Residence - Bangalore	24-25
Honeyy Group Corporate Office - Visakhapatnam	26-27
Geographic Information Systems : Mapping Immigrants in Hudson County, New Jersey	28-29
Free Hand Sketching	30

**CONTEXTUAL PLAN**



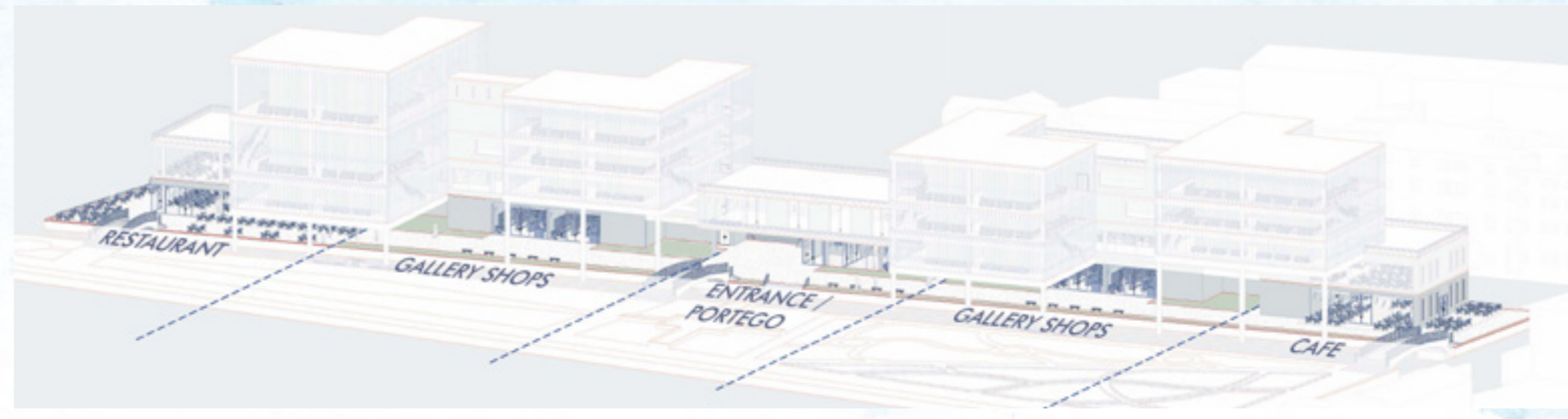
Giving importance to the venetian urban fabric and continuing it further to complete the missing piece of the city. The design is concentrated to public friendly site level relationships. The concept starts with light and multi-type. By divideng the site in the middle gives an additional entrance way for boats and defines the campo space differed from the gardens. The gardens are designed as multi-type found in typical venice (all in one place). The east facade boasts the charasteristics of a typical venetian facade which is translated into the modern style while this is quite cantrary on the west side. The galleries are designed to allow natural diffused light through openings at top level of the walls.

**CANALETTO MUSEUM**



M.Arch / Fall 2023 / Concept / Design development / Proposal / Detail Drawings / Outcomes

**COMPARABLE ARCHITECTURAL AND BUILDING SYSTEMS DIAGRAMS**



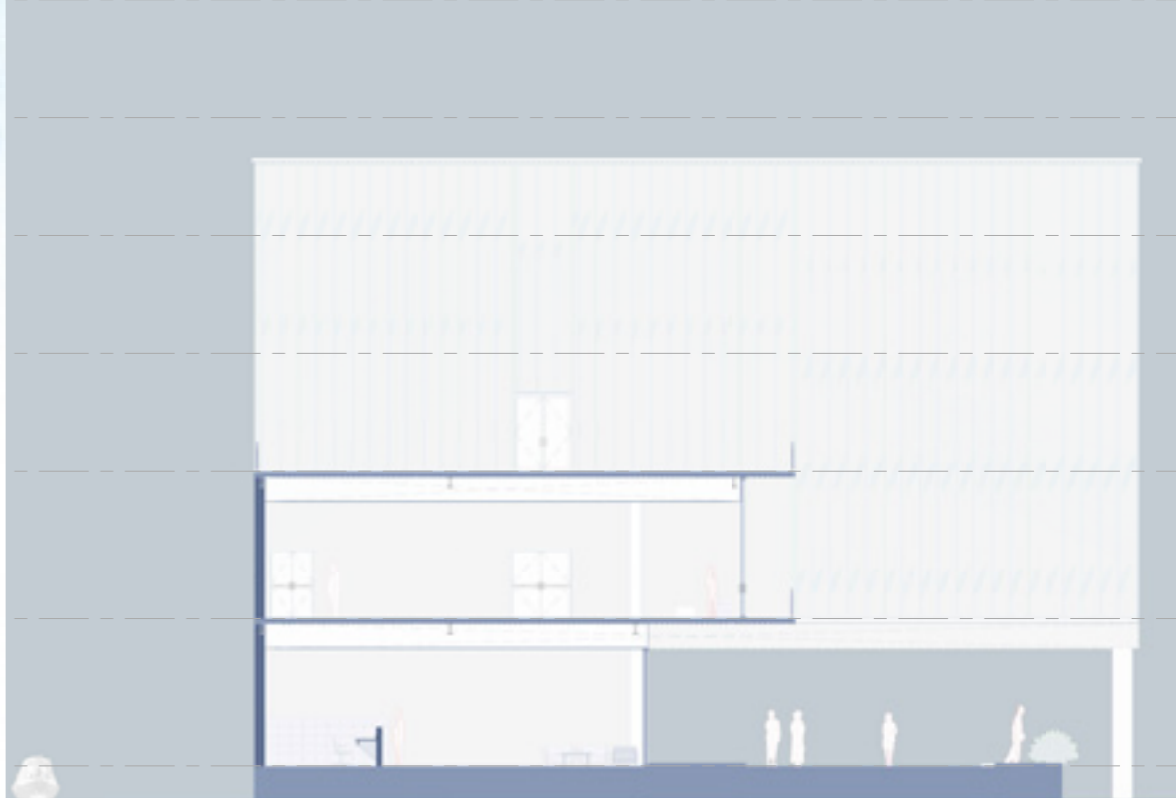


- LEGEND**
- 1 CAFE EXTERIOR DINING
  - 2 CAFE
  - 3 KITCHEN FOR CAFE
  - 4 ART ACCESS ROOM
  - 5 LOADING AREA
  - 6 GIFT STORE
  - 7 RECEPTION & WAITING
  - 8 VESTIBULE
  - 9 COAT CHECK
  - 10 STORAGE FOR KITCHEN
  - 11 KITCHEN FOR RESTAURANT
  - 12 STAFF CHANGE ROOM
  - 13 RESTAURANT
  - 14 TRATTORIA
  - 15 CAMPO
  - 16 FLOWER GARDEN
  - 17 GAZEBO PARK
  - 18 FOUNTAIN
  - 19 SCULPTURE PARK
  - 20 LAGOON SEATING
  - 21 PANTRY FOR CAFE
  - 22 WOMEN'S WASHROOM
  - 23 MEN'S WASHROOM
  - 24 PORTEGO
  - 25 BALCONY FROM PORTEGO
  - 26 PANTRY FOR REST.
  - 27 ART STORAGE
  - 28 MECH. & ELE. EQUIP. ROOM
  - 29 ART PREP. AREA
  - 30 STAFF WASHROOM
  - 31 STAFF CHANGE ROOM
  - 32 BLDG. MANAGER
  - 33 FOUNDATION DIRECTOR
  - 34 ADMIN ASSISTANT
  - 35 CURATOR
  - 36 ENGINEER'S OFFICE
  - 37 MECH. & ELE. ROOM
  - 101 EGRESS STAIRCASE
  - 102 SERVICE LIFT
  - 103 PUBLIC LIFT
  - 104 SERVICE DUCT
  - 1G SKETCHES GALLERY
  - 2G ETCHINGS GALLERY
  - 3G PREP. WORKS GALLERY
  - 4G MAJOR WORKS GALLERY
  - PT1 PRIVATE TERRACE-1
  - PT2 PRIVATE TERRACE-2
  - PT3 PRIVATE TERRACE-3
  - PT4 PRIVATE TERRACE-4
  - PT5 PRIVATE TERRACE-5

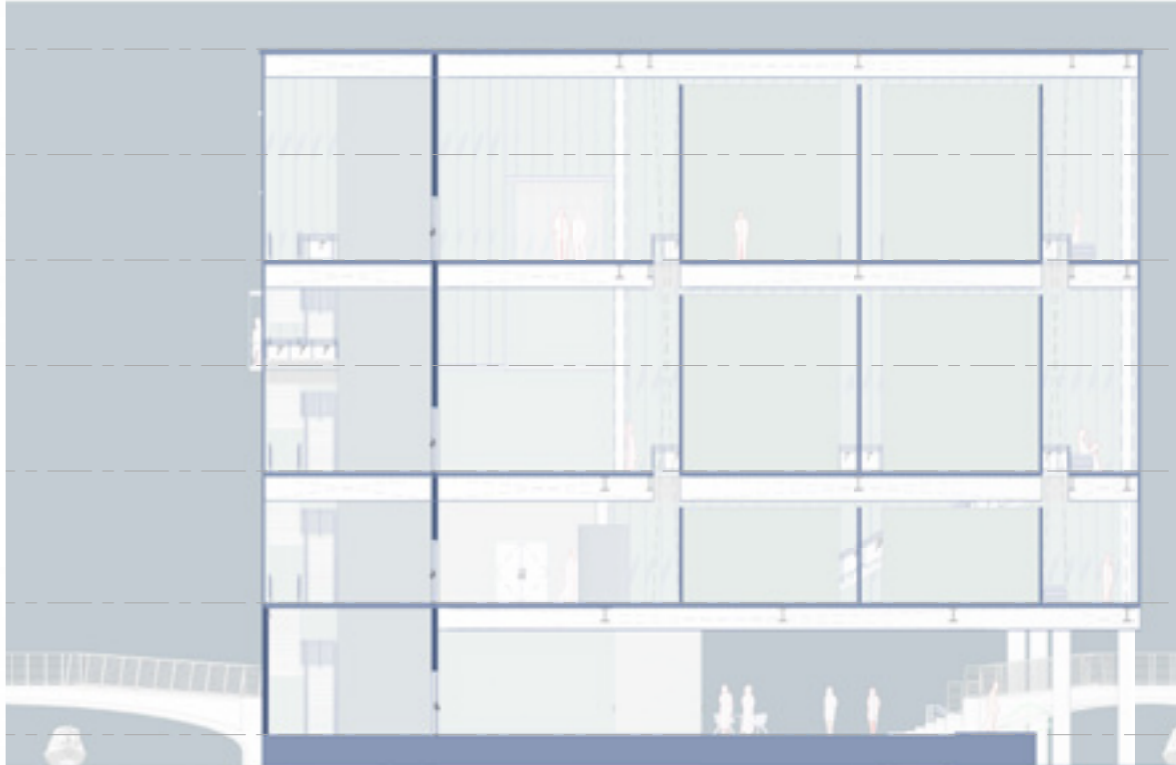
GROUND FLOOR PLAN

FIRST FLOOR PLAN

TYPICAL GALLERY FLOOR PLAN



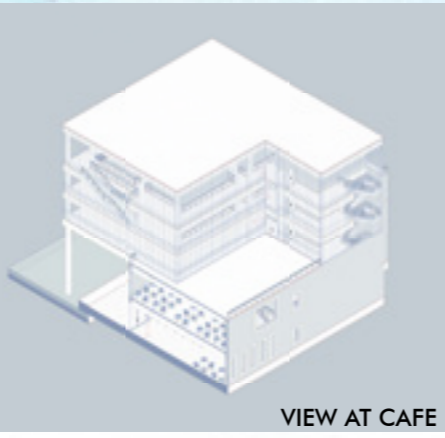
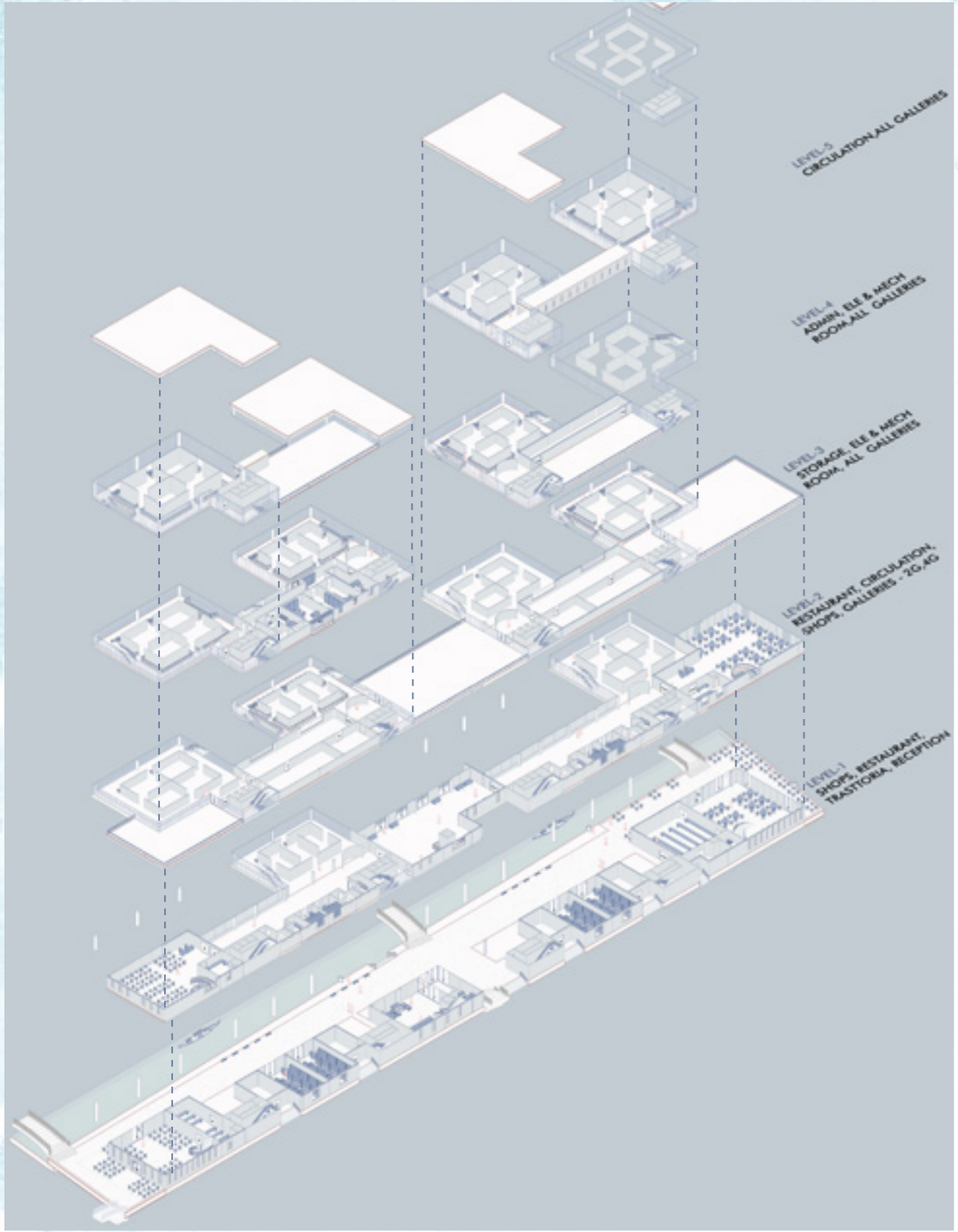
TRANSVERSAL SECTION (THROUGH PORTEGO)



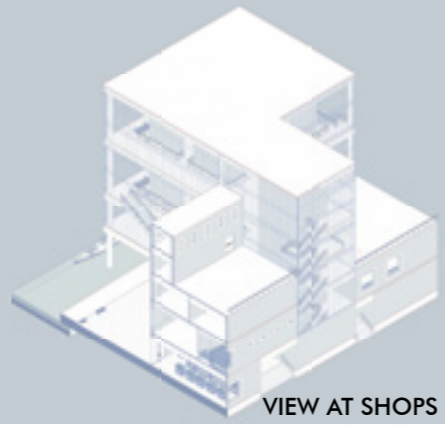
TRANSVERSAL SECTION (THROUGH GALLERY)



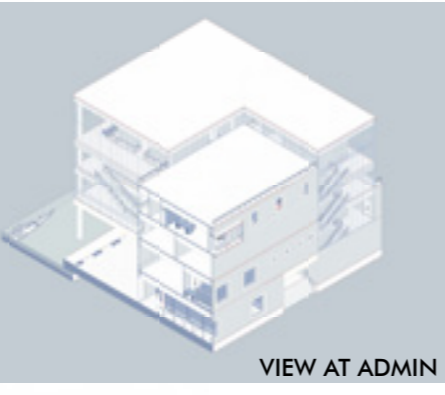
LONGITUDINAL SECTION



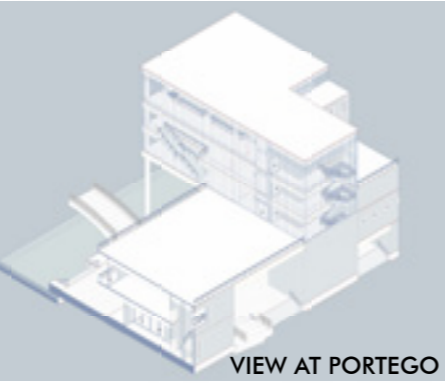
VIEW AT CAFE



VIEW AT SHOPS

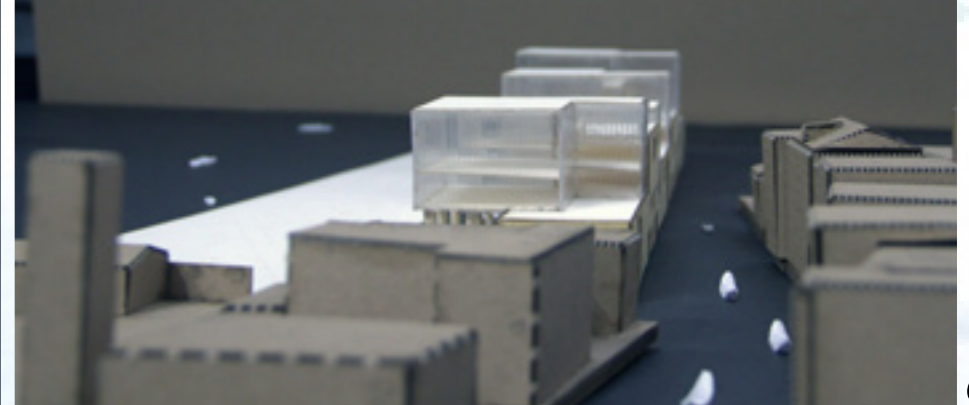
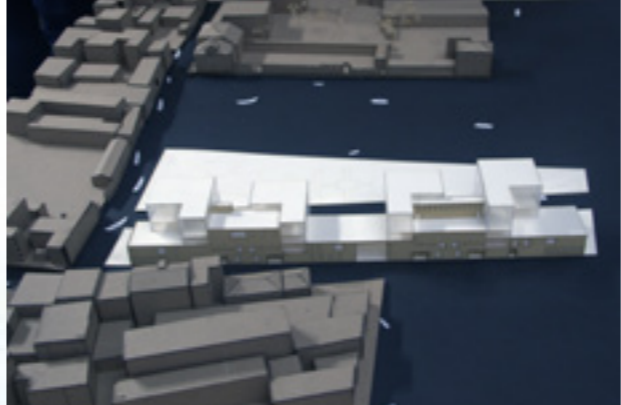
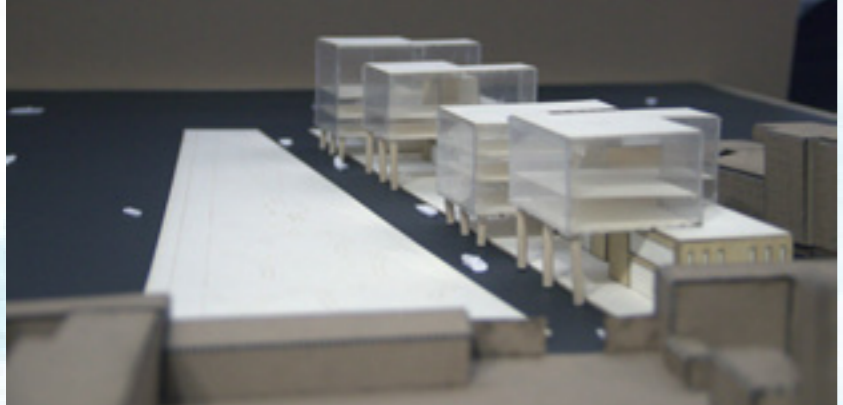


VIEW AT ADMIN



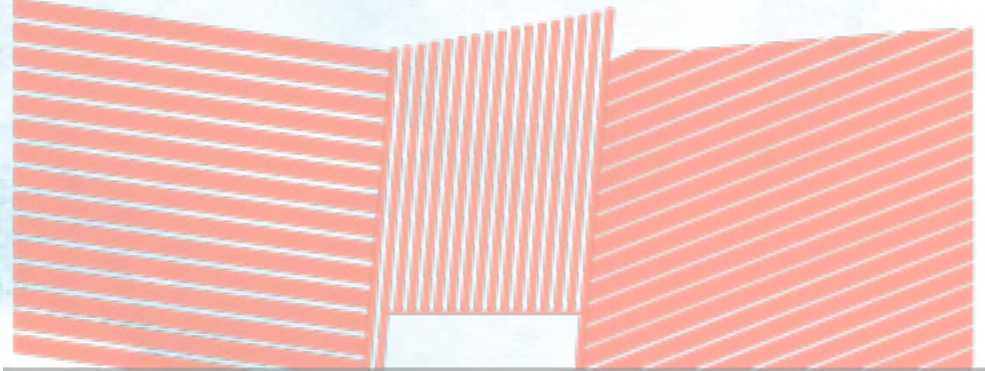
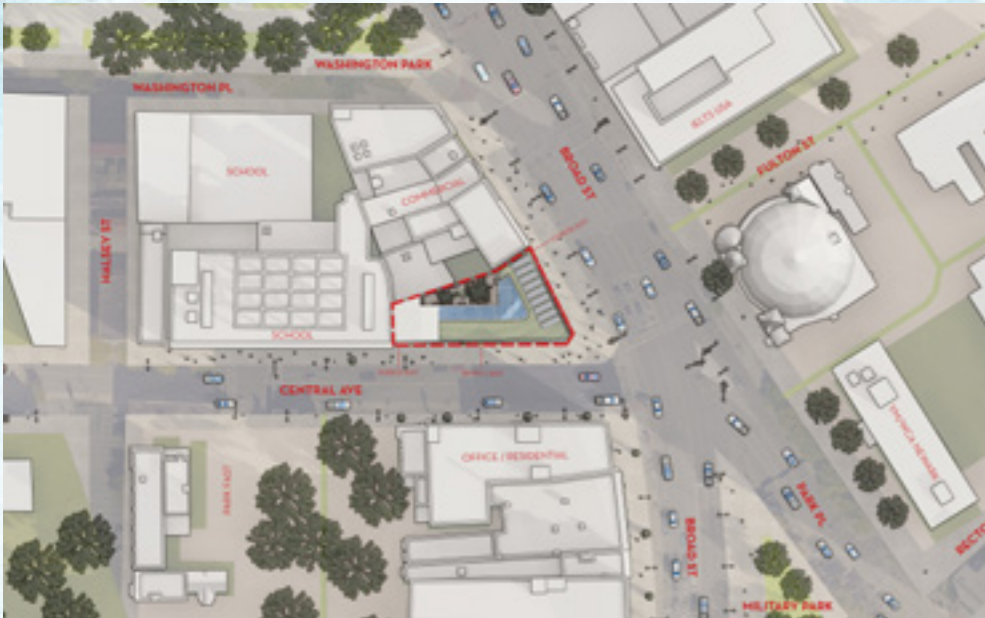
VIEW AT PORTEGO

PHYSICAL MODEL





**SITE RELATIONSHIPS**



*“JAZZ music is characterized by propulsive syncopated rhythms, polyphonic ensemble playing, varying degrees of improvisation, and often deliberate distortions of pitch and timbre”.*

The core thought came from this and implemented in elevation ordering where lines (fins) are in rhythm but are abruptly change orientation defining the entrance.

Further these fins are improvised for solar shading angles where the east facade fins are more vertical allowing the light through the building but as we flow through the south the orientation of fins are now much diagonal and ended up horizontal at the far end of south blocking the high intensity southern light. Here on the south side the vertical fins on top of the entrance are treated with special facade system with motorized horizontal blind system inside which is further capped with anti-glare roller blinds.

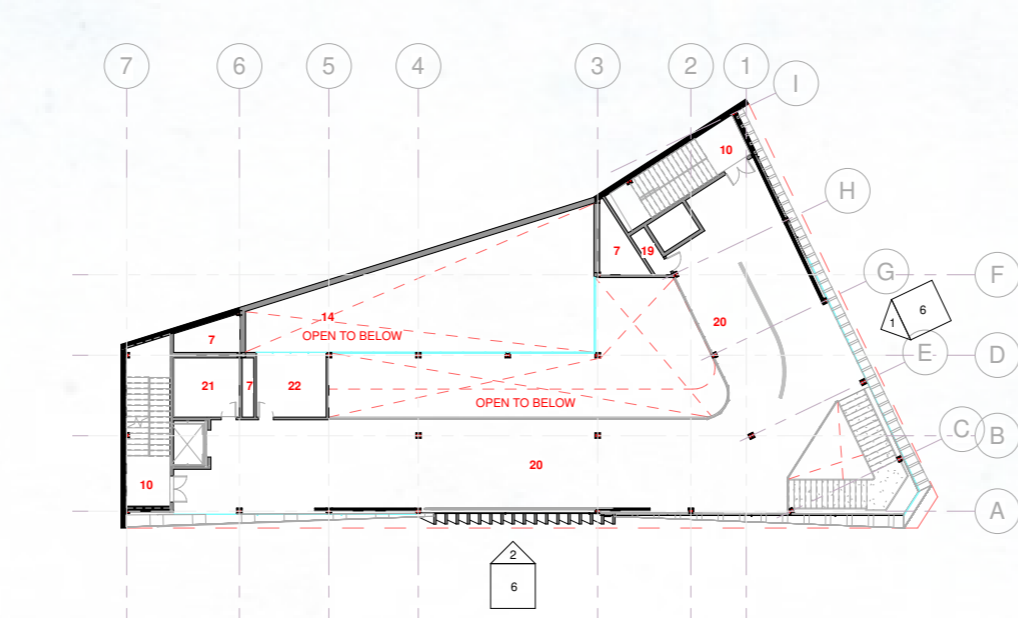
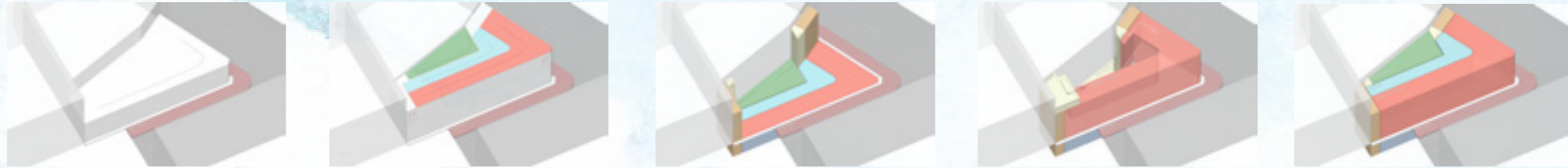
The plan ordering system is inspired from the shape and orientation, offsetting the corner defines the 3 core areas as usable, atrium and courtyard. The atrium separates the gallery space from direct solar heat gain coming from open courtyard. The plan is divided as front (gallery) and back of house (services and administration). This is divided by assigning all back of house programs in basement which is only privately accessible.

**JAZZ LINK MUSEUM REDEVELOPMENT**

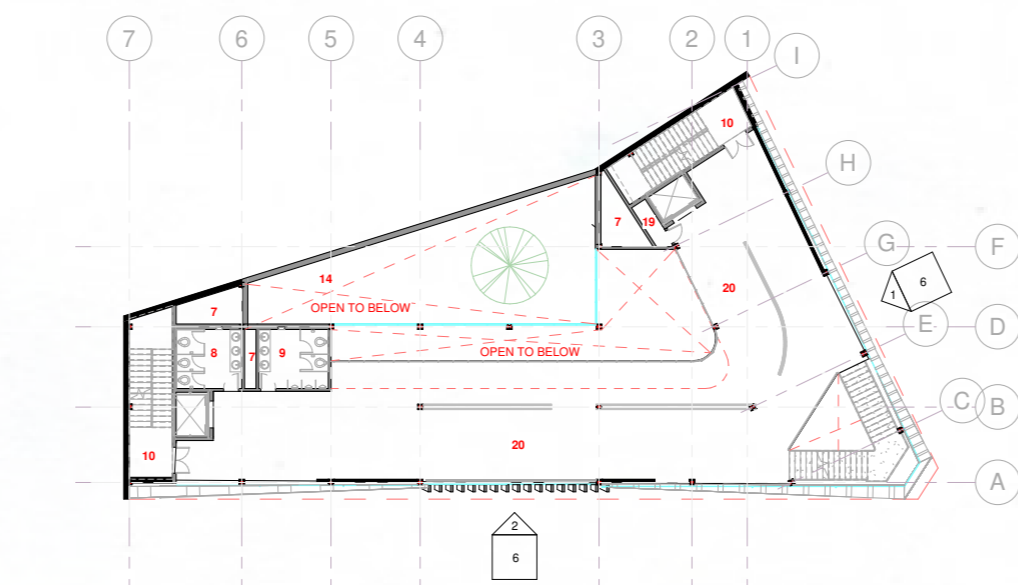


M.Arch / Spring 2023 / Concept / Design development / Proposal / Detail Drawings / Outcomes

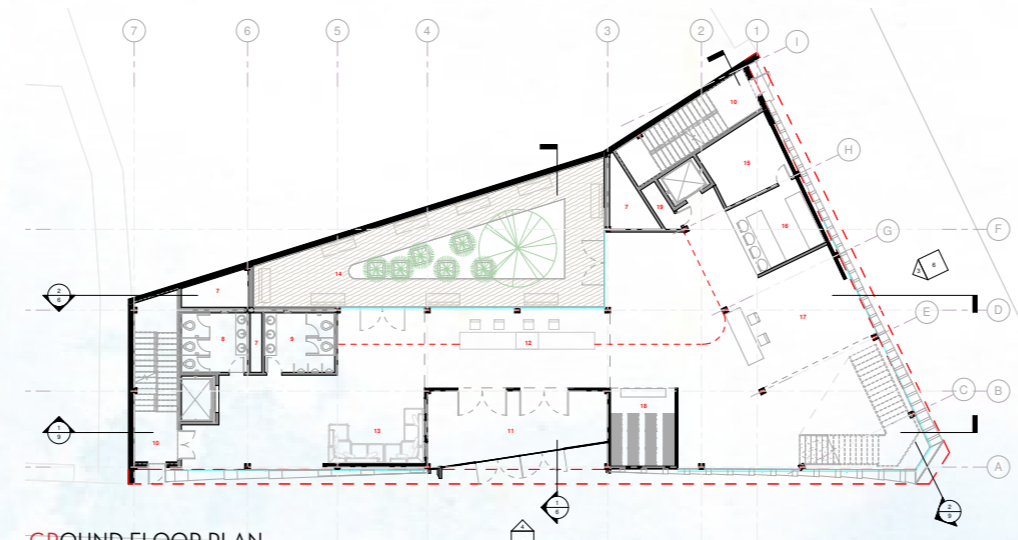
**MASSING STRATEGIES**



THIRD FLOOR PLAN



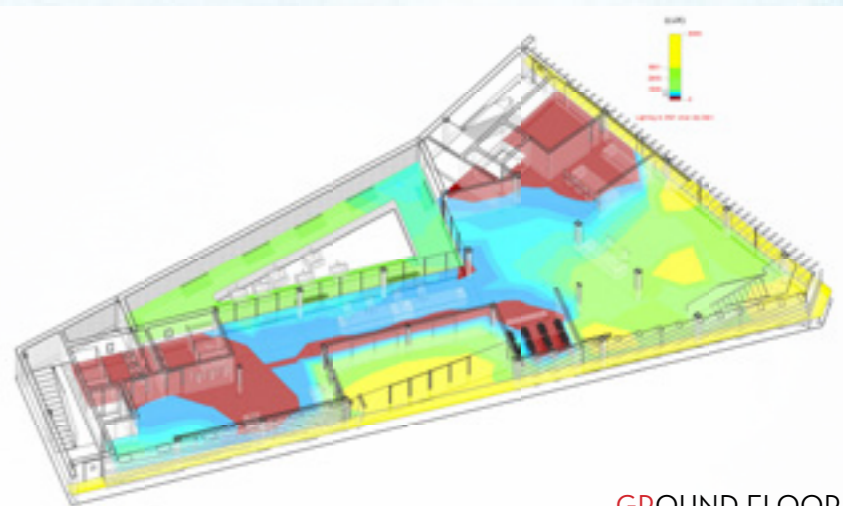
SECOND FLOOR PLAN



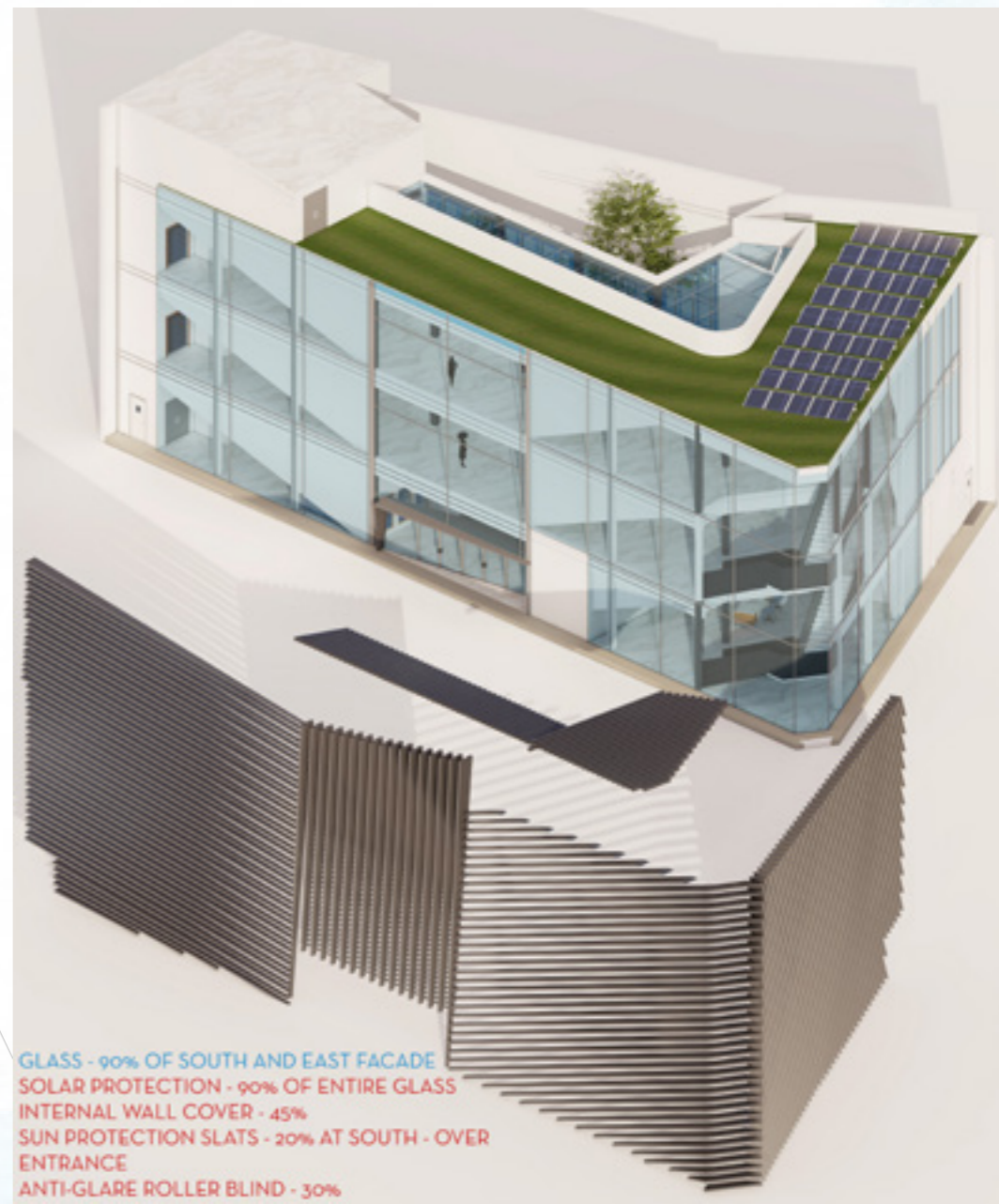
GROUND FLOOR PLAN

**LEGEND**

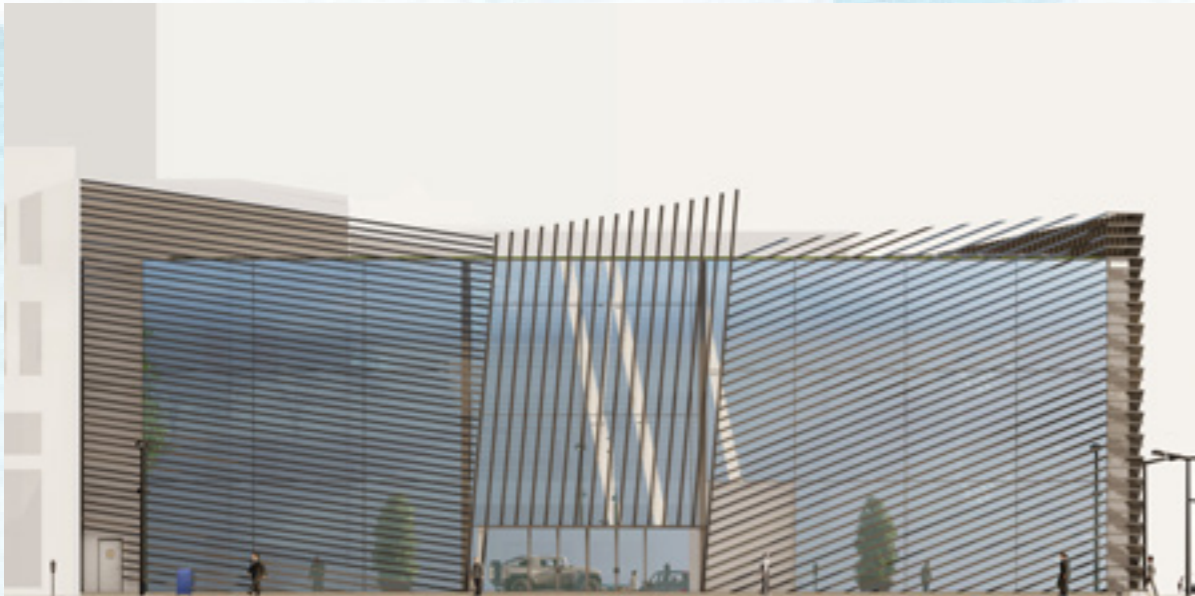
- 1 Storage area
- 2 Mechanical, electrical, HVAC equipment room
- 3 Records storage
- 4 Library
- 5 Future extension
- 6 Office
- 7 Duct's
- 8 Women's washroom
- 9 Men's washroom
- 10 Egress stairs
- 11 Vestibule
- 12 Reception area
- 13 Waiting
- 14 Courtyard
- 15 Prep. kitchen
- 16 Cafe
- 17 Gift / Book store
- 18 Coat check
- 19 Electrical room
- 20 Exhibition space
- 21 Listening room - A
- 22 Listening room - B
- 23 Roof level equipment room
- 24 Sedum planter
- 25 Photo-voltaic panels



GROUND FLOOR INSIGHT LIGHTING ANALYSIS



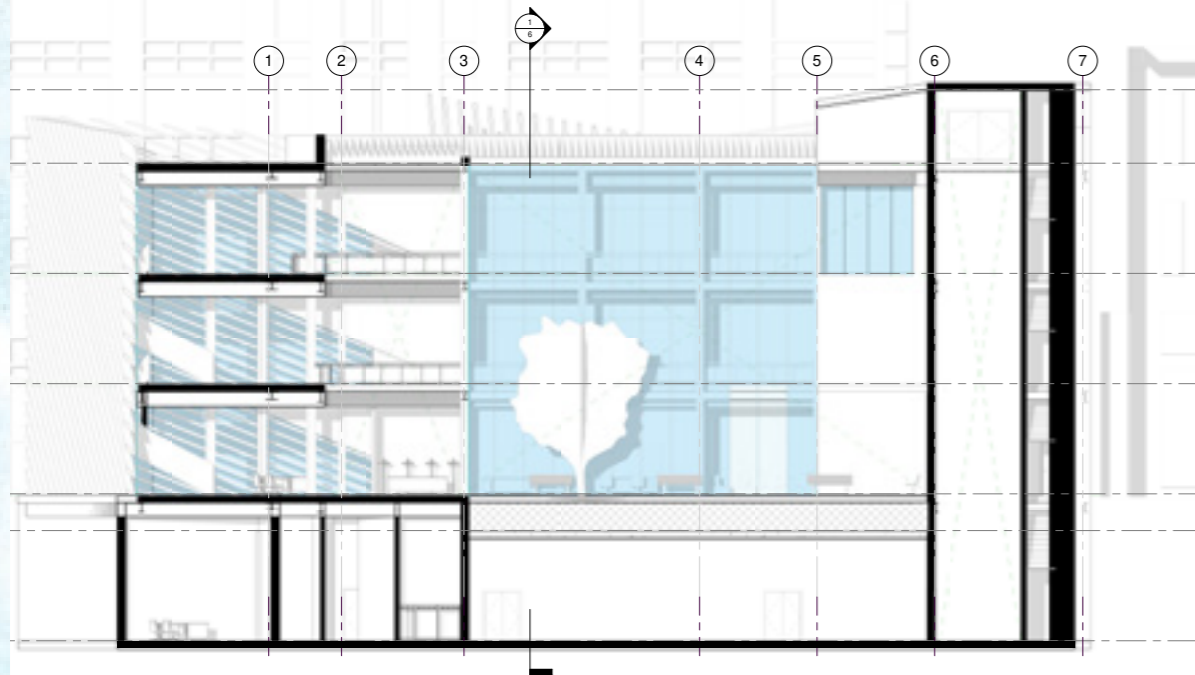
- GLASS - 90% OF SOUTH AND EAST FACADE
- SOLAR PROTECTION - 90% OF ENTIRE GLASS
- INTERNAL WALL COVER - 45%
- SUN PROTECTION SLATS - 20% AT SOUTH - OVER ENTRANCE
- ANTI-GLARE ROLLER BLIND - 30%



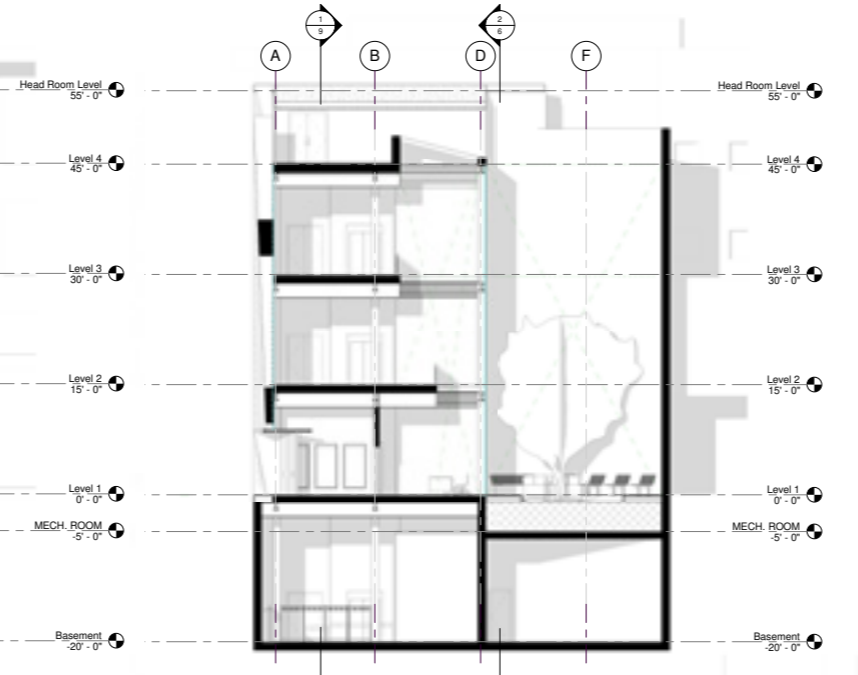
SOUTH FACING ELEVATION



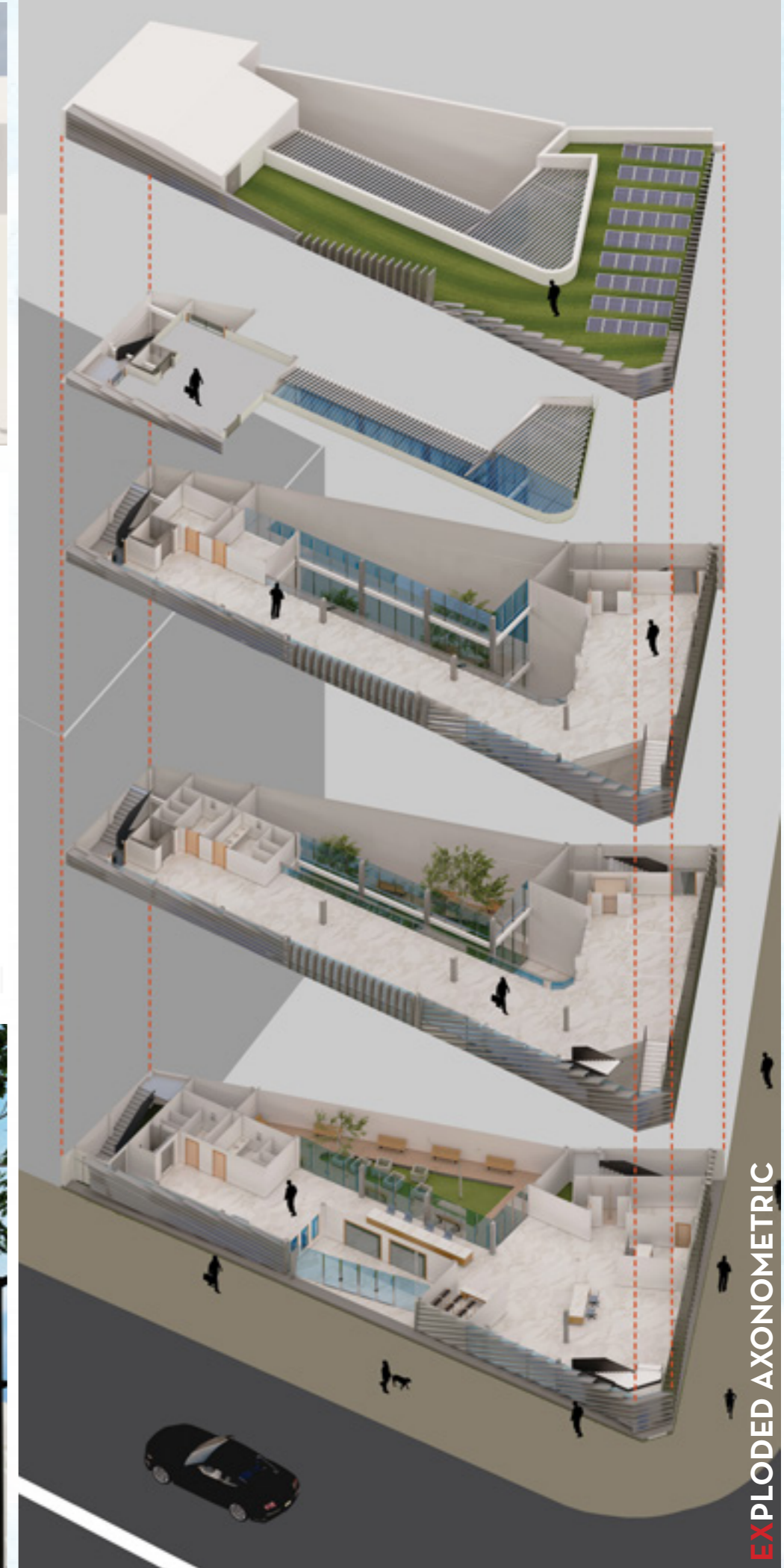
EAST FACING ELEVATION



LONGITUDINAL SECTION



TRANSVERSAL SECTION



EXPLODED AXONOMETRIC



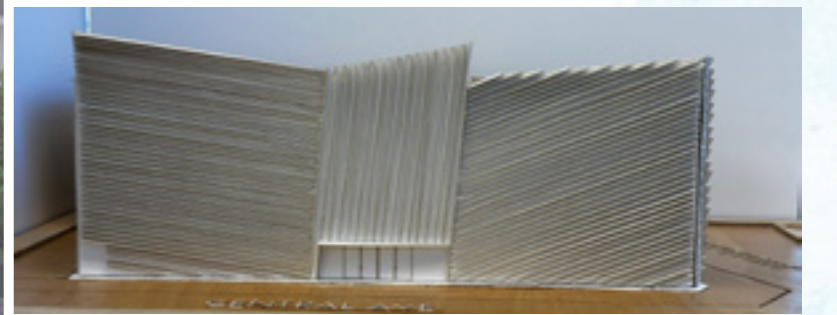
SECTION PERSPECTIVE



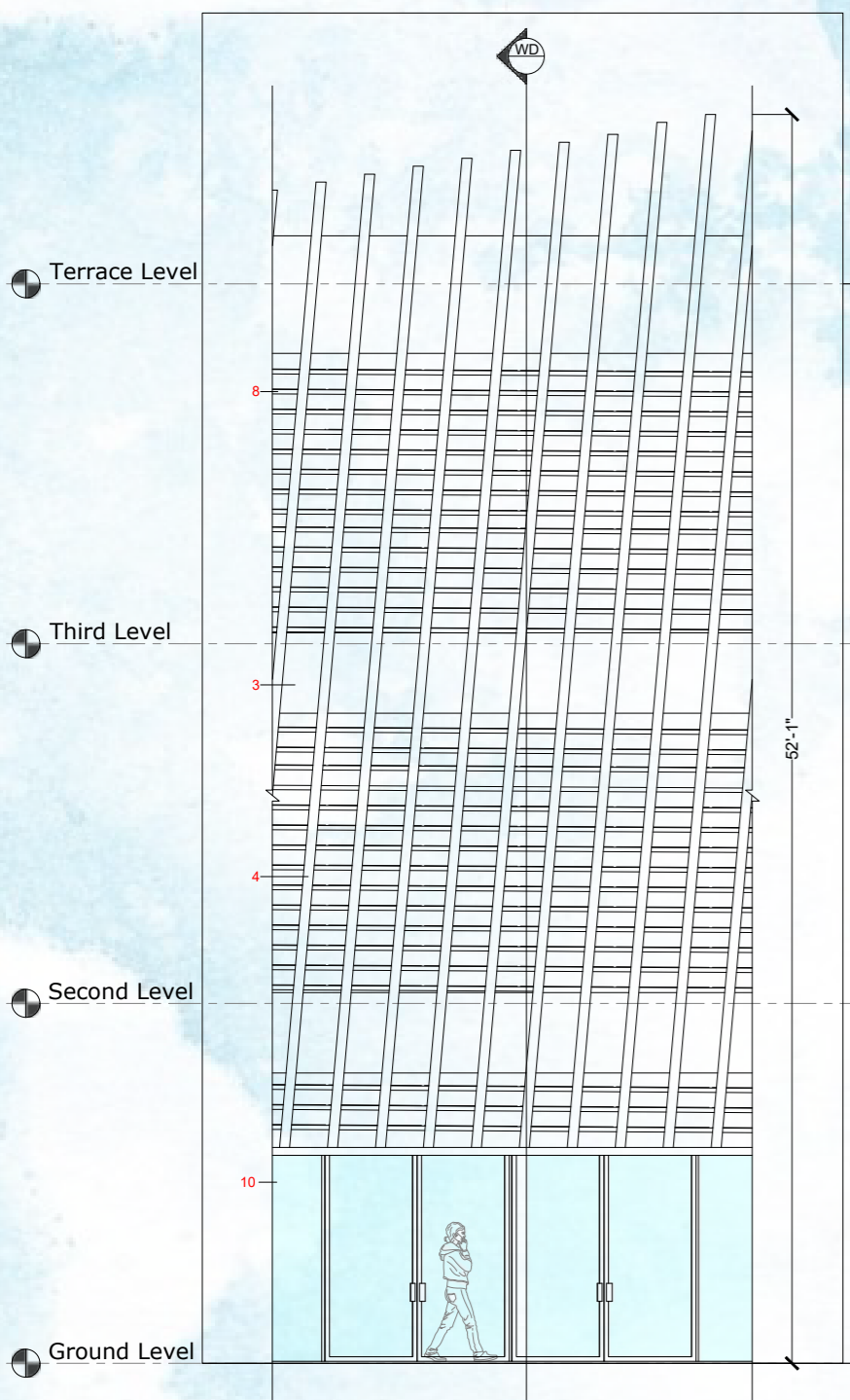
VIEWING COURTYARD FROM SECOND FLOOR



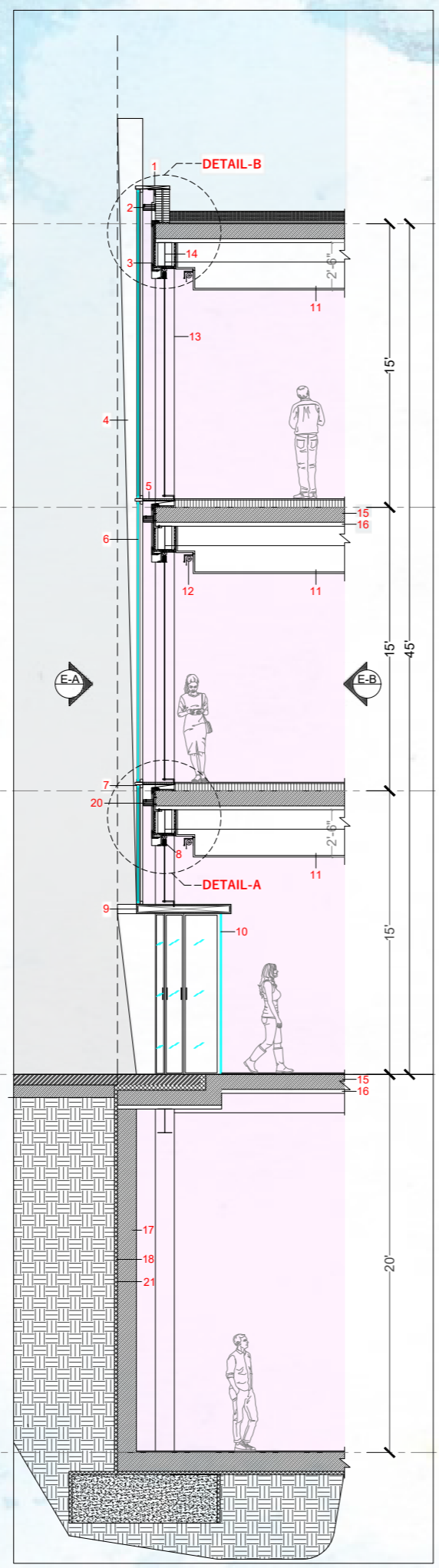
VIEWING EXHIBITION SPACE FROM SECOND FLOOR



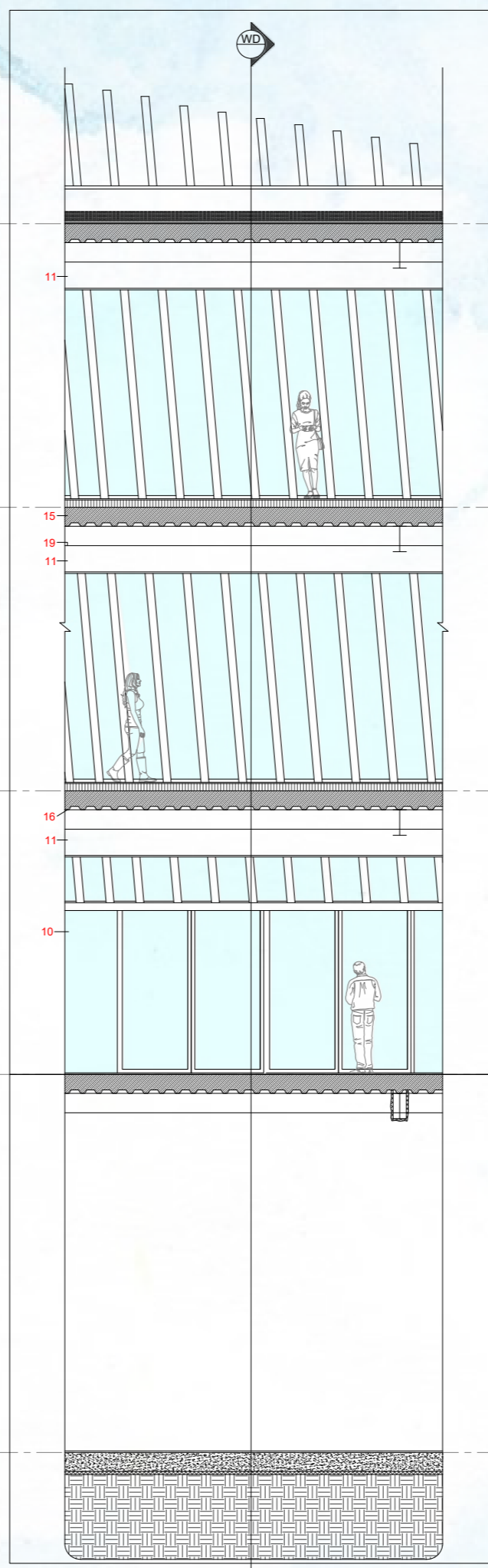
PHYSICAL MODEL



ELEVATION - EA

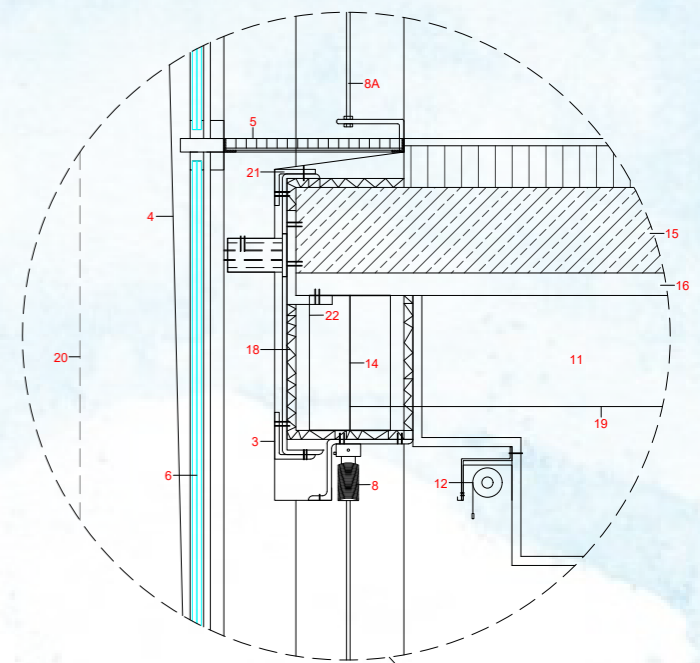


WALL SECTION - WD

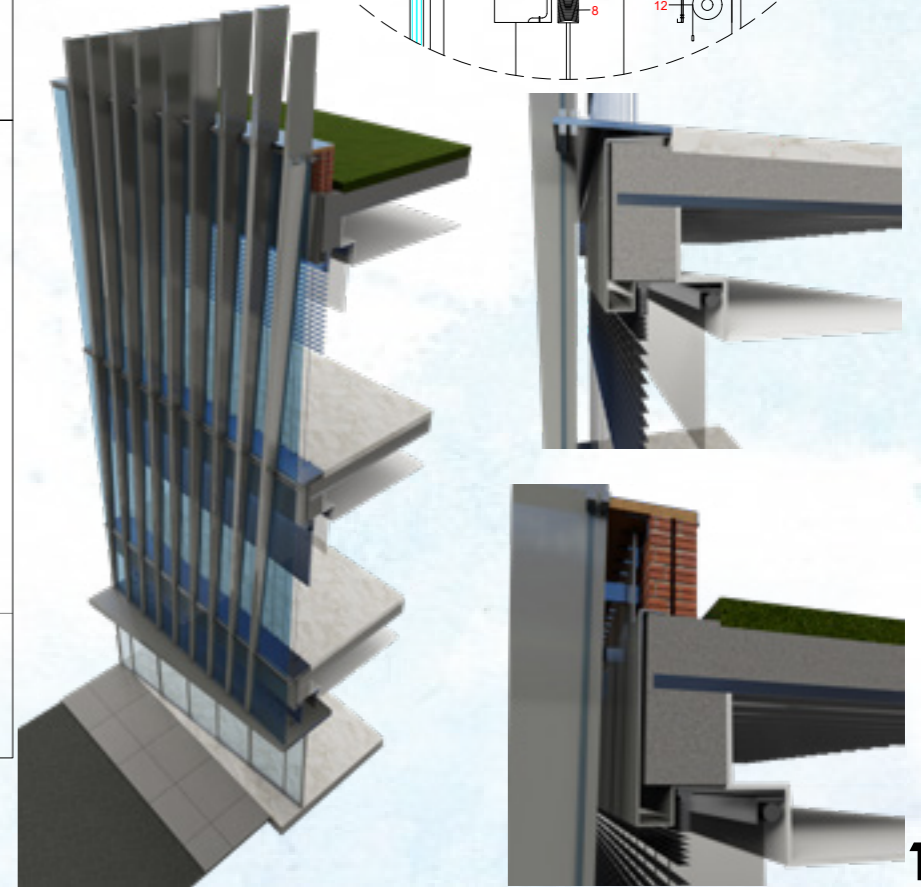
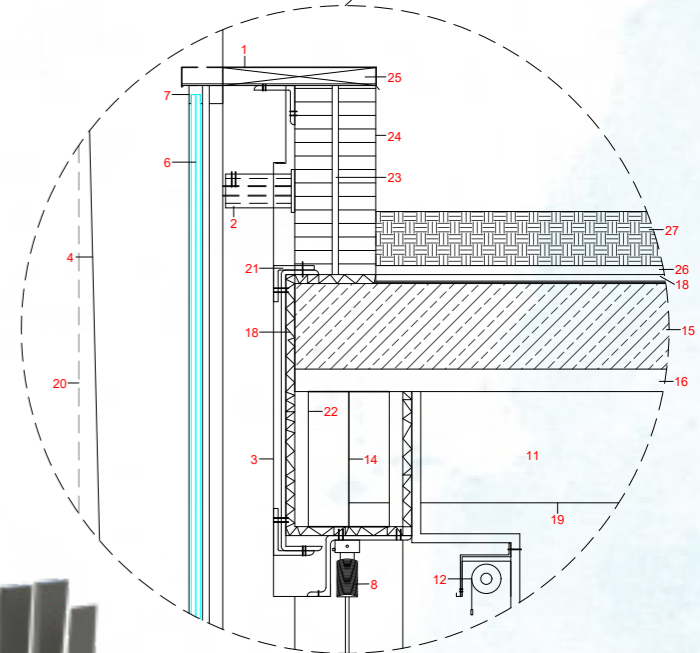


ELEVATION - EB

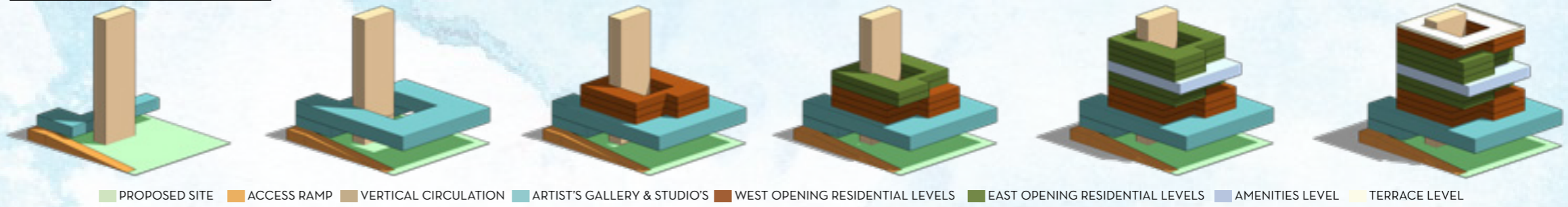
- LEGEND**
- 1 Metal Coping
  - 2 Steel facade fin suspension
  - 3 Pleated stainless steel cladding as slab cover
  - 4 Vertical - Pleated Stainless Steel facade fin
  - 5 1.5" metal grating on 3" steel profile frame
  - 6 Double glazing E-Glass
  - 7 Mullion
  - 8 3" Motorized sun protection slats
  - 8A motorized sun protection guide rod
  - 9 Cantilevered steel profile
  - 10 12 mm thk. Glass door system
  - 11 False Ceiling 2'-6" ht. space for Mechanical and Electrical & Fire Equipment
  - 12 Anti-glare roller blind
  - 13 Steel Column covered in Plaster board and Skimmed
  - 14 Girder Beam
  - 15 Light Weight Concrete Slab
  - 16 Metal Decking
  - 17 Retaining Wall
  - 18 Rigid insulation
  - 19 I-Beam
  - 20 Site boundary
  - 21 Angle supports
  - 22 Beam cover
  - 23 Solidly filled with grout
  - 24 Masonry parapet
  - 25 Continuous blocking
  - 26 Drainage composite
  - 27 Growth medium



DETAIL-A  
DETAIL-B



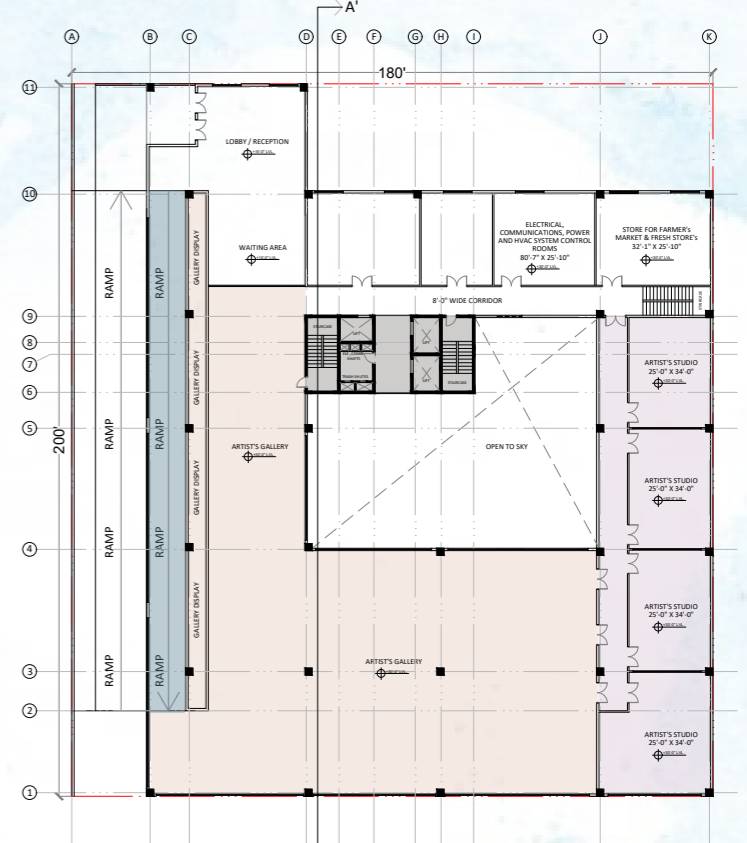
# MASSING STRATEGIES



- Flood Map
- Proposed Site
- Existing ARTIST Studio's
- Existing Subway Transit
- Existing Subway Stations
- Proposed Subway Transit
- Proposed Subway Stations
- Proposed Flood Wall
- Proposed Ferry



## SITE PLAN



## UPPER FIRST FLOOR LEVEL

As per the findings of the location, the redhook area is in a need of immediate attention. The housing in the area is diversified with mixed variations with multi-family, single parent families locating. Also there are artist studios and galleries in this area which are in need of a mixed work-housing like comodation.

Coming to the future developments in this area, has proposals for a new ferry which connects new york city more frequently than the existing ferry and the proposal of a new subway line fron world trade centre through redhook brings life and ample opportunities to the area. And the most happening future development in the area is the updation of the flood wall all around the shore of redhook which changes the road network rapidly.

Considering all the above factors the proposal of a mixed-income, multi-family housing with special provisions of the artist's studio and gallery for the artists makes the place more viable and acts as a gathering place in the neighbourhood.

# UNITED LIVING MULTI-UTILITY HOUSING



## TYPICAL FLOOR PLAN - WEST OPENING



## TYPICAL FLOOR PLAN - EAST OPENING



**SOUTH ELEVATION**

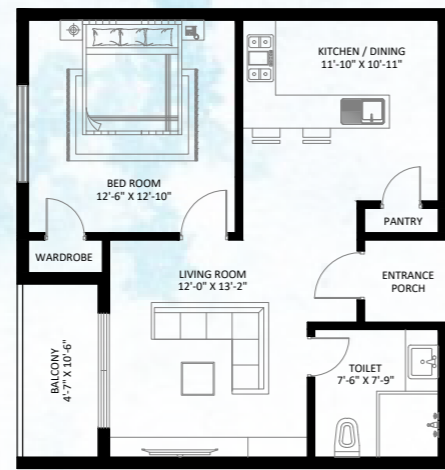
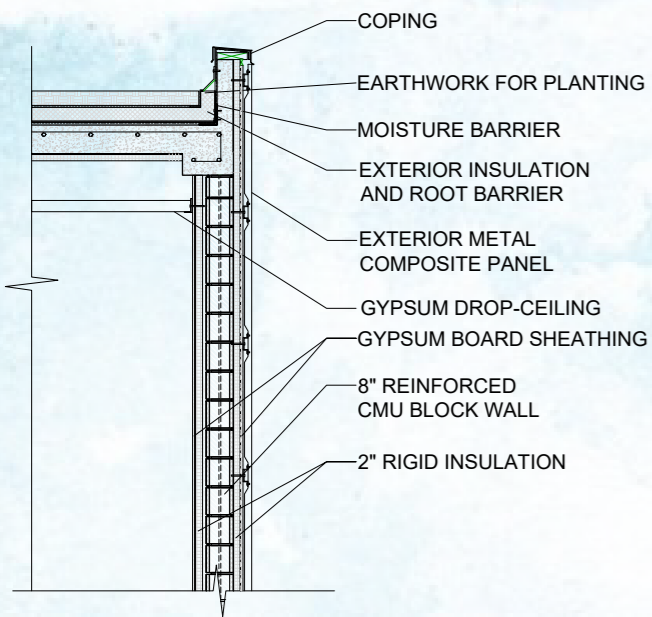


**WEST ELEVATION**

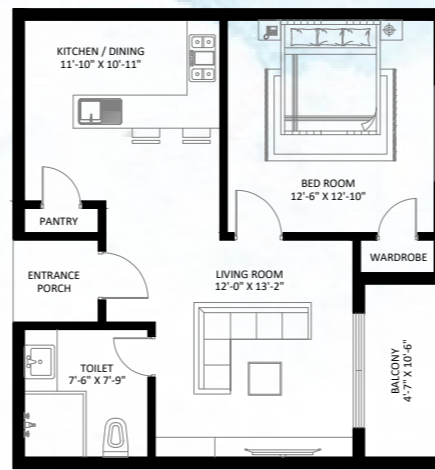


**SECTION AT A-A'**

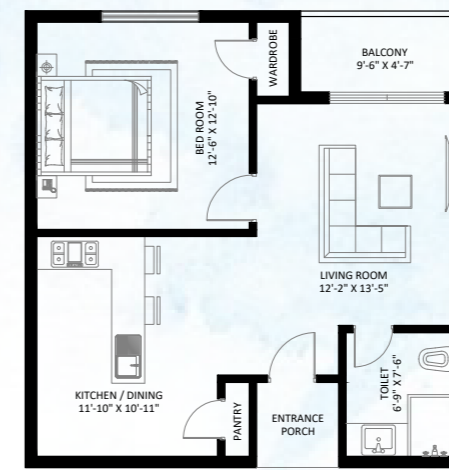
# UNIT TYPES AND AGGREGATION



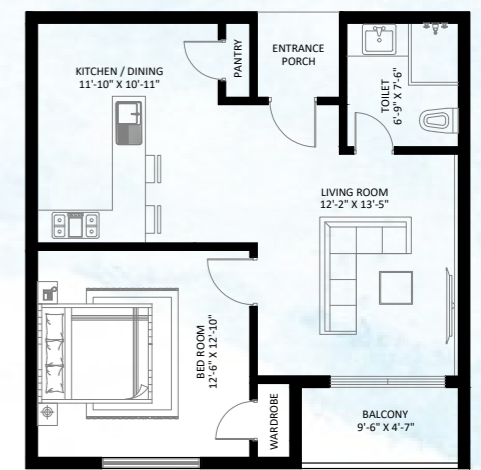
1 BHK EAST FACING



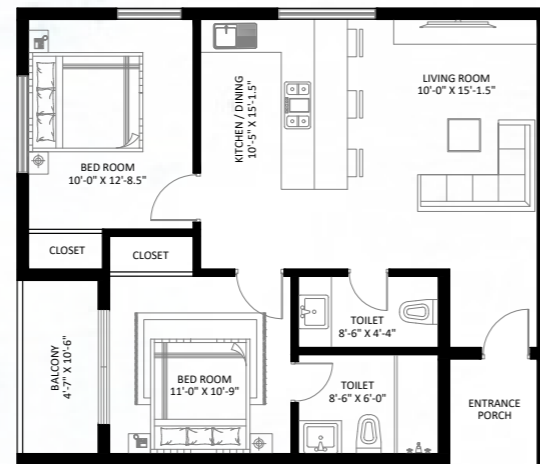
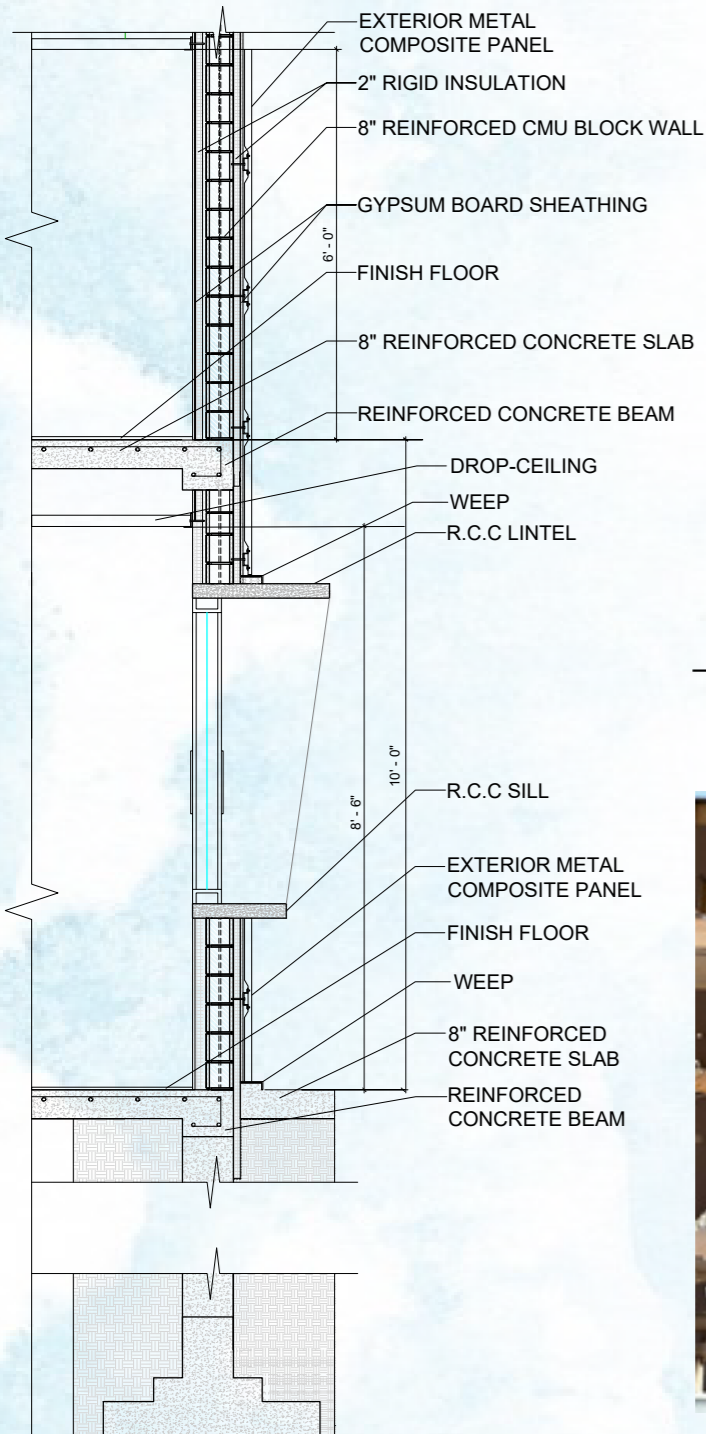
1 BHK WEST FACING



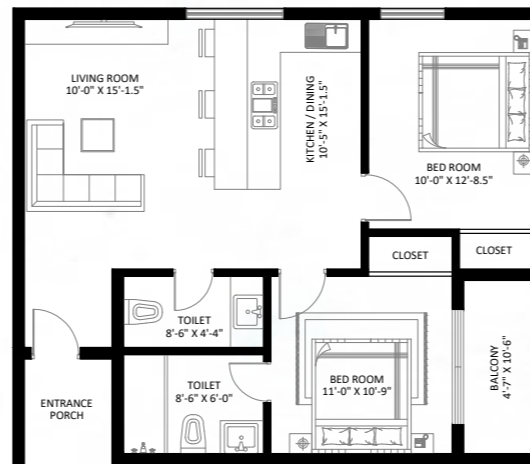
1 BHK SOUTH FACING



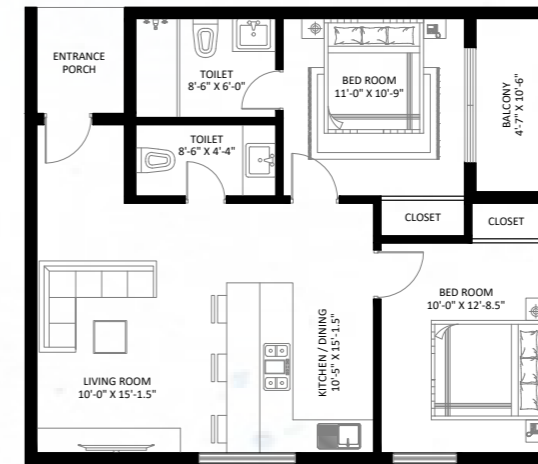
1 BHK NORTH FACING



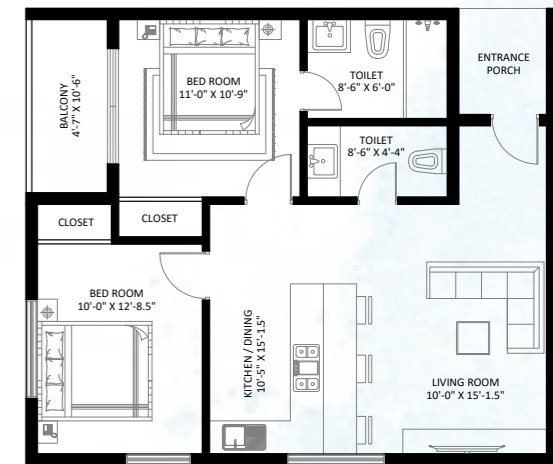
2 BHK SOUTH FACING - TYPE-1



2 BHK SOUTH FACING - TYPE-2



2 BHK NORTH FACING - TYPE-1



2 BHK NORTH FACING - TYPE-2

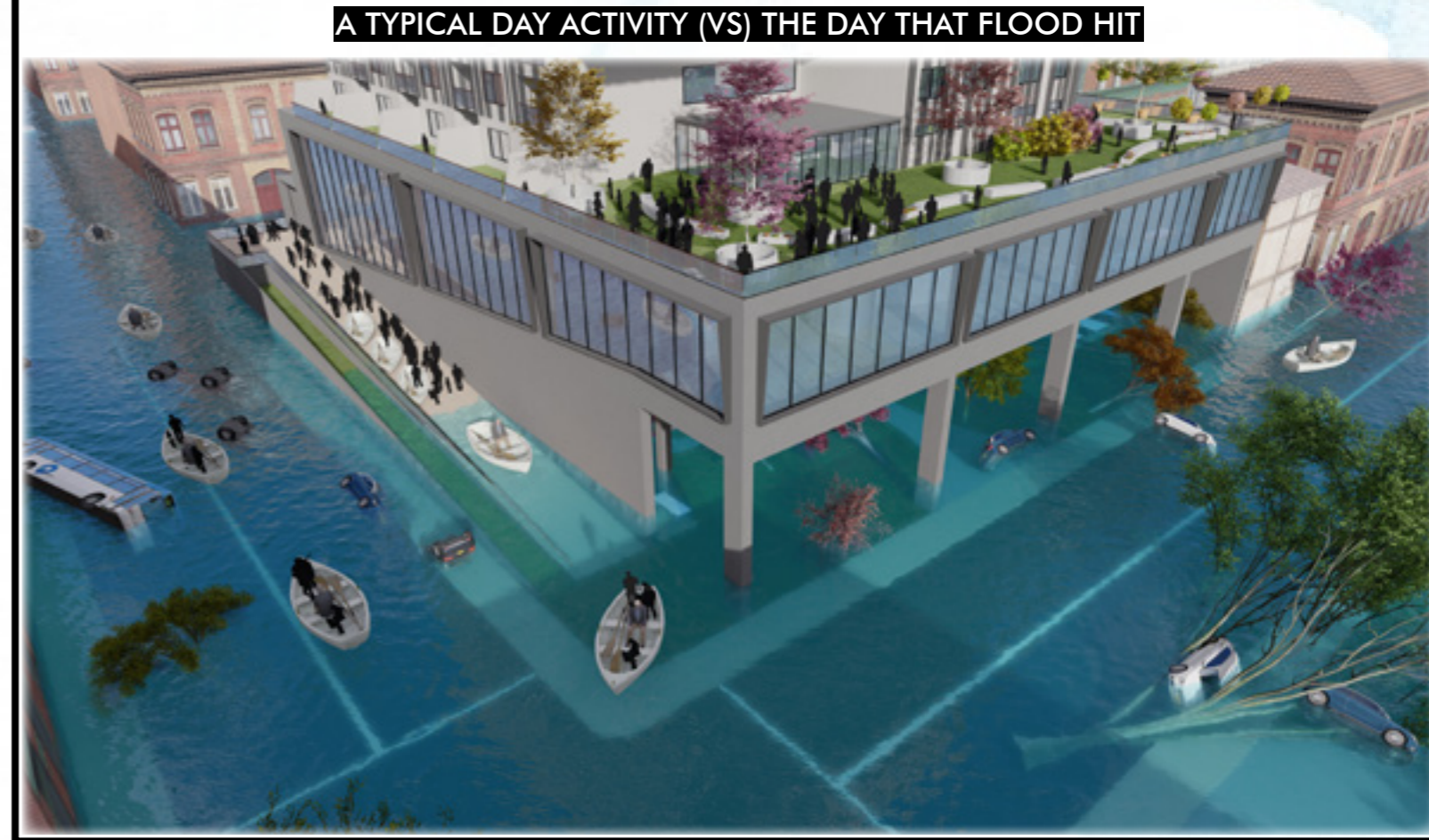


PHYSICAL MODEL, SCALE : 1' = 1/32"

TYPICAL WALL SECTION DETAIL



A TYPICAL DAY ACTIVITY (VS) THE DAY THAT FLOOD HIT



PERSPECTIVE VIEWS

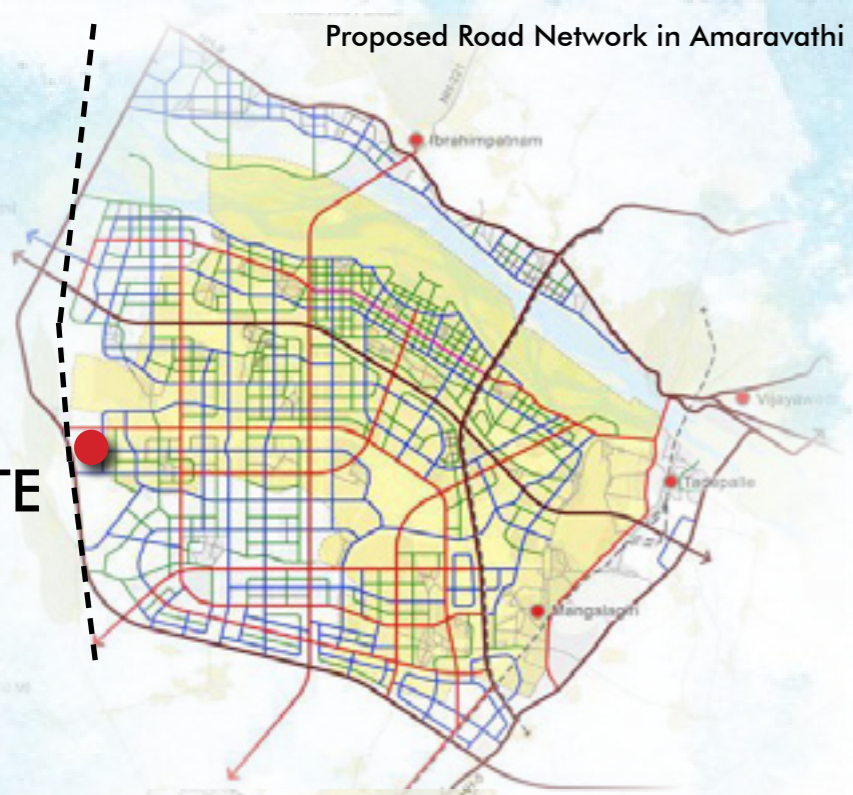


2012-Flooding in Red Hook after Superstorm Sandy  
Credit: Alan Chin via The Bridge

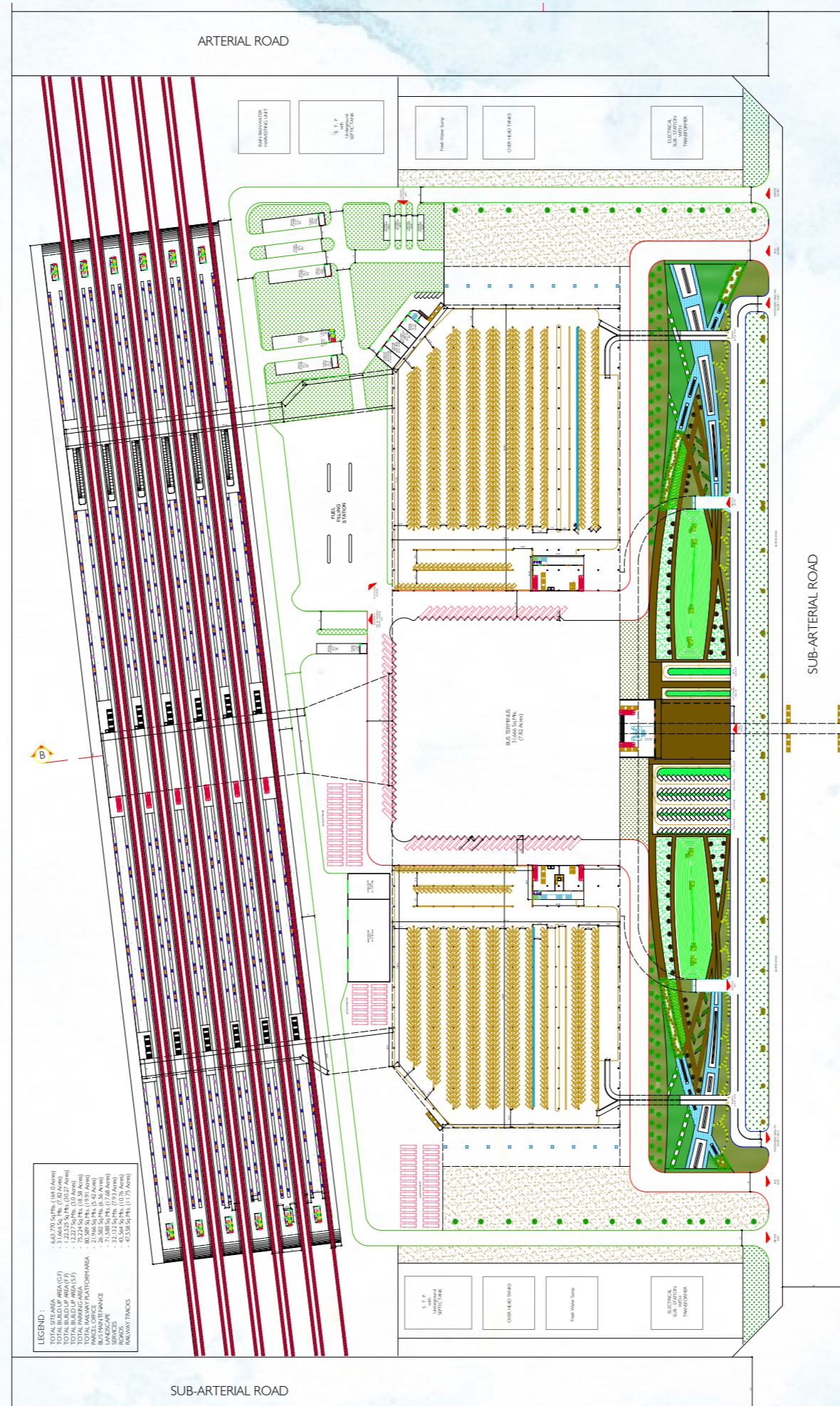
The flood level shown in the simulation is matched with the 2012 superstorm and to this day it poses the same threat to the place.

To withstand this scenario the whole building is raised to 30 feet above ground level and the ramp also acts as a rescue source making the get-away boats accessible by the public.

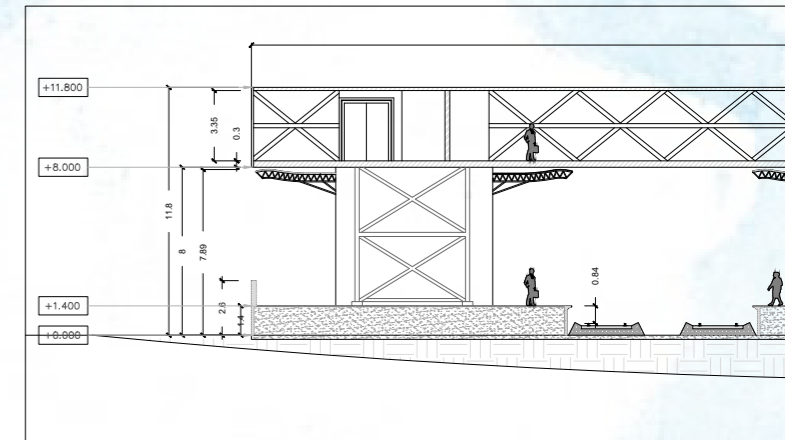
Proposed Road Network in Amaravathi



Proposed Transit Network in Amaravathi

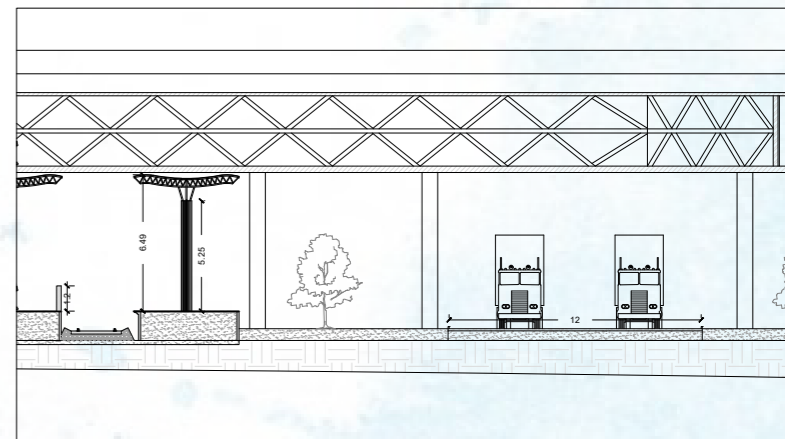


GROUND LEVEL PLAN

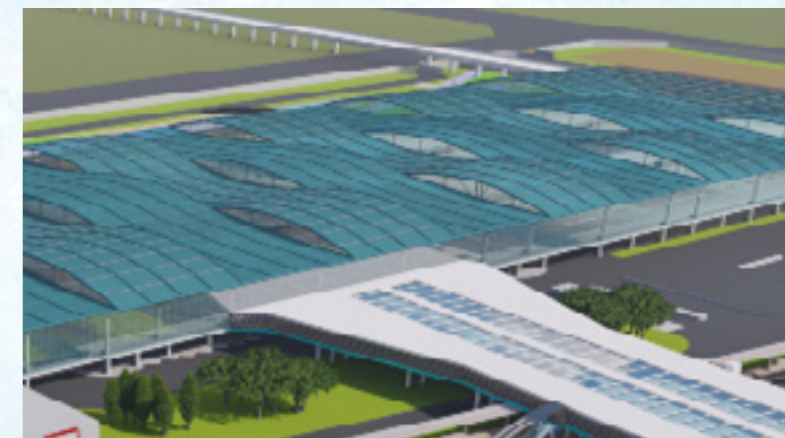


DETAIL - A

- + Detail-A : Typical Railway Platform with Foot Bridge.
- + Detail-B : Service Road



DETAIL - B



Integrated transport hubs are a form of Transport oriented Development(TOD), and are fully air conditioned transport interchanges seamlessly linked to rail system, rapid transit and bus stations and adjoining commercial developments such as shopping malls. With integration, commuters can interchange easily and shop conveniently and comfortably, before transferring to their connecting buses or trains.

# INTER-URBAN INTEGRATED TRANSPORTATION HUB

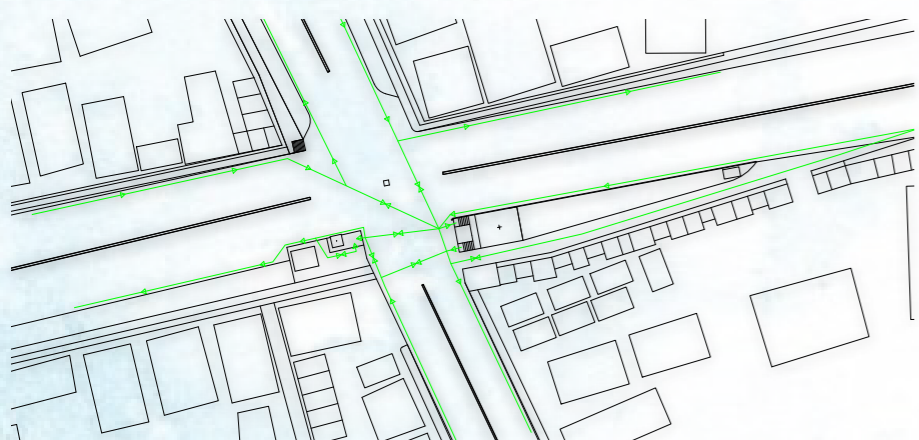
4th Year / 2nd Semester / 2017 / THESIS /  
Case study / Literature study /  
Design development / Proposal



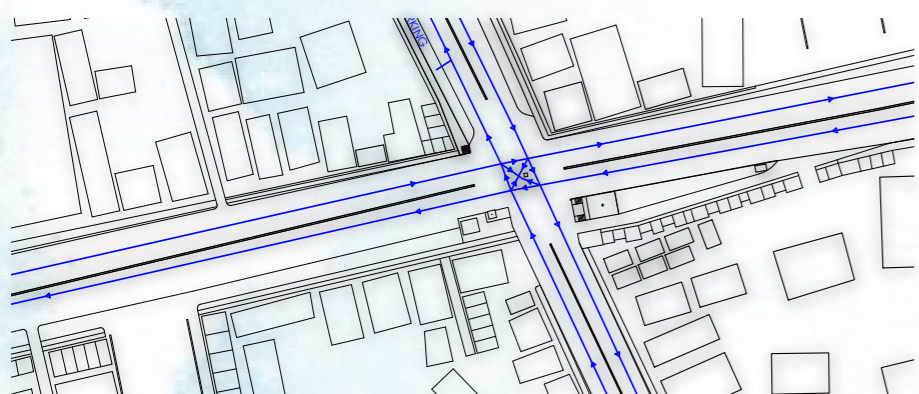
Flow Analysis : Pedestrian Movement



Flow Analysis : Pilgrim Movement



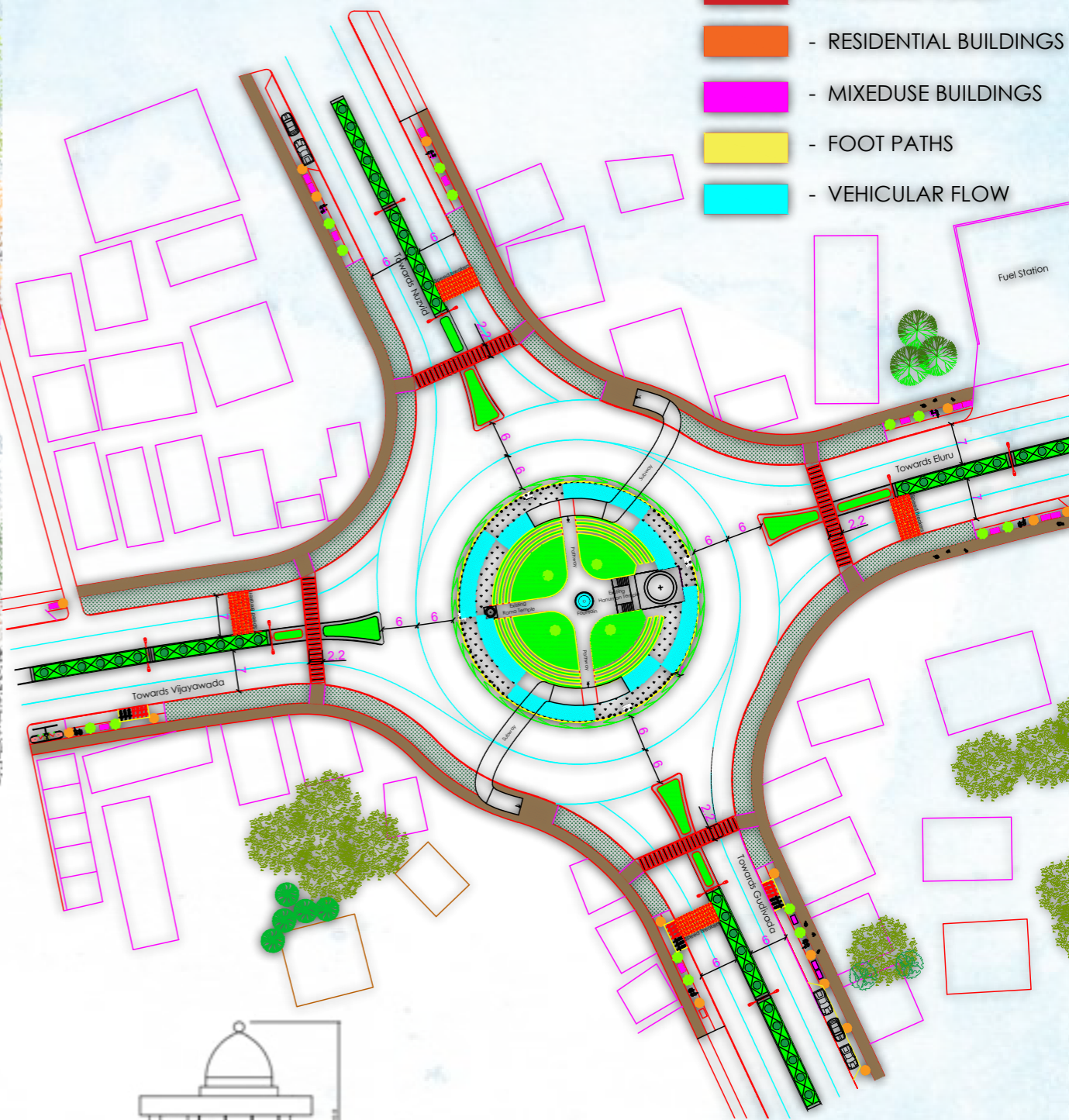
Flow Analysis : Public Transport



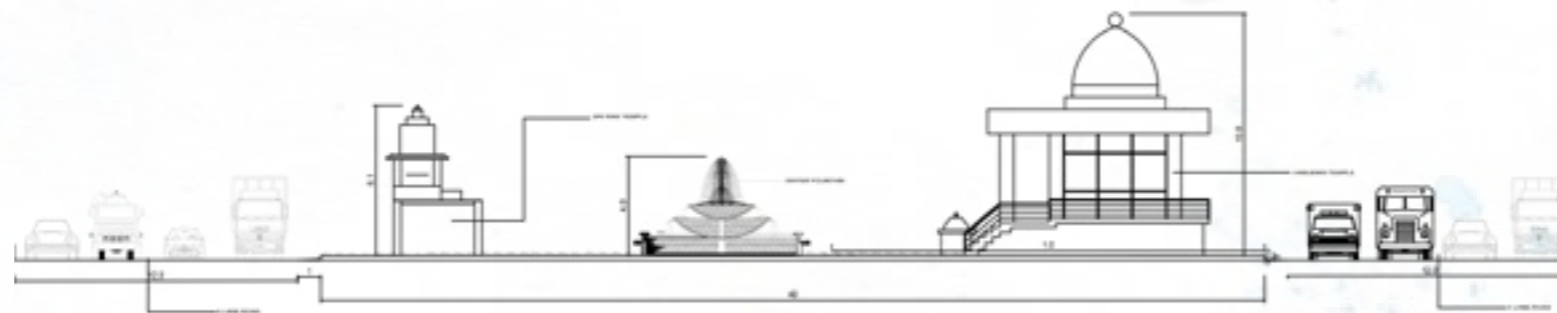
**EXISTING CONJUNCTION**



- INTERNAL ROADS
- RESIDENTIAL BUILDINGS
- MIXEDUSE BUILDINGS
- FOOT PATHS
- VEHICULAR FLOW

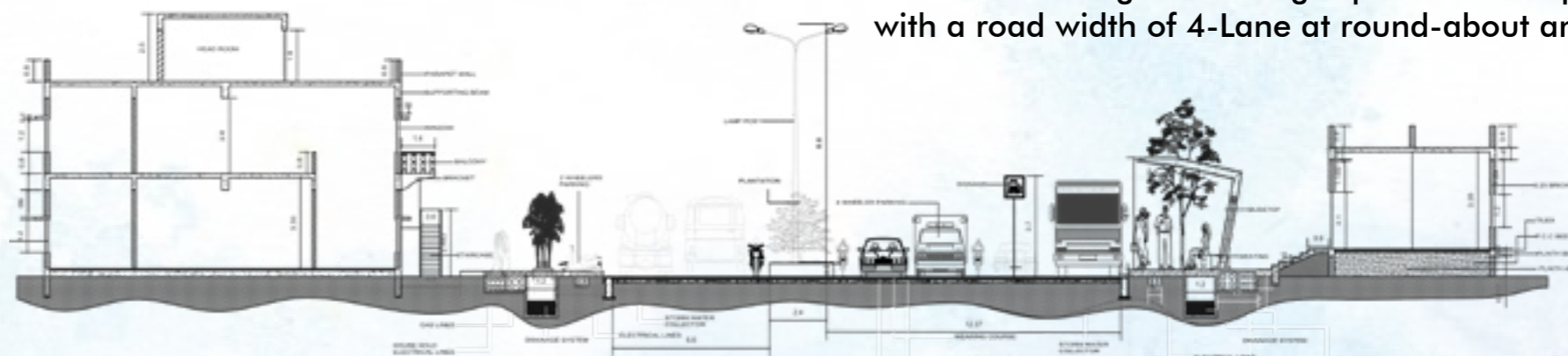


**PROPOSED TRAFFIC ISLAND**



SECTION SHOWING TRAFFIC ISLAND

The round about is designed to carry a 18 wheel vehicle with no less of given average speed of 40kmph at junction with a road width of 4-Lane at round-about and an APRON of 1Mts.



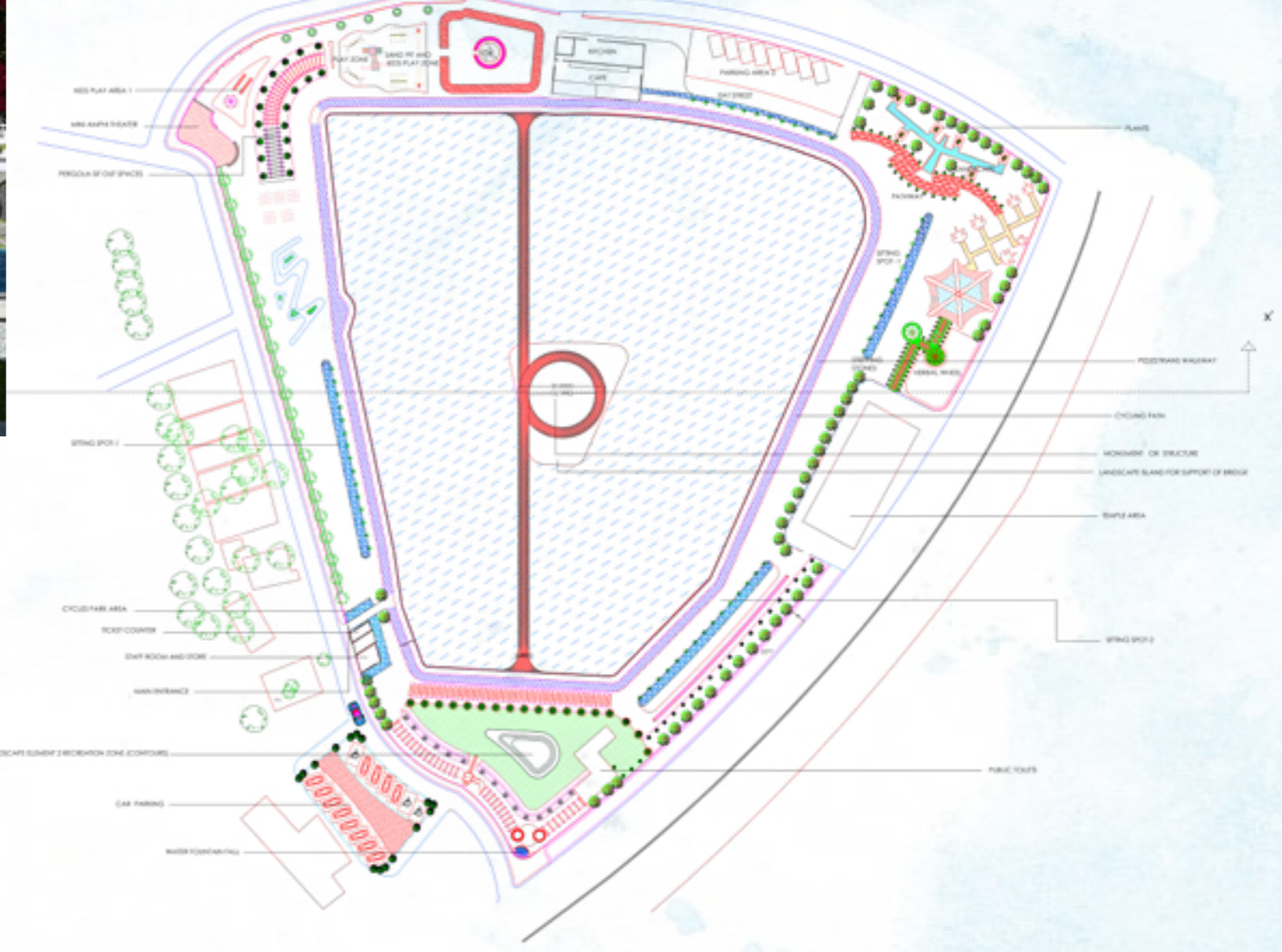
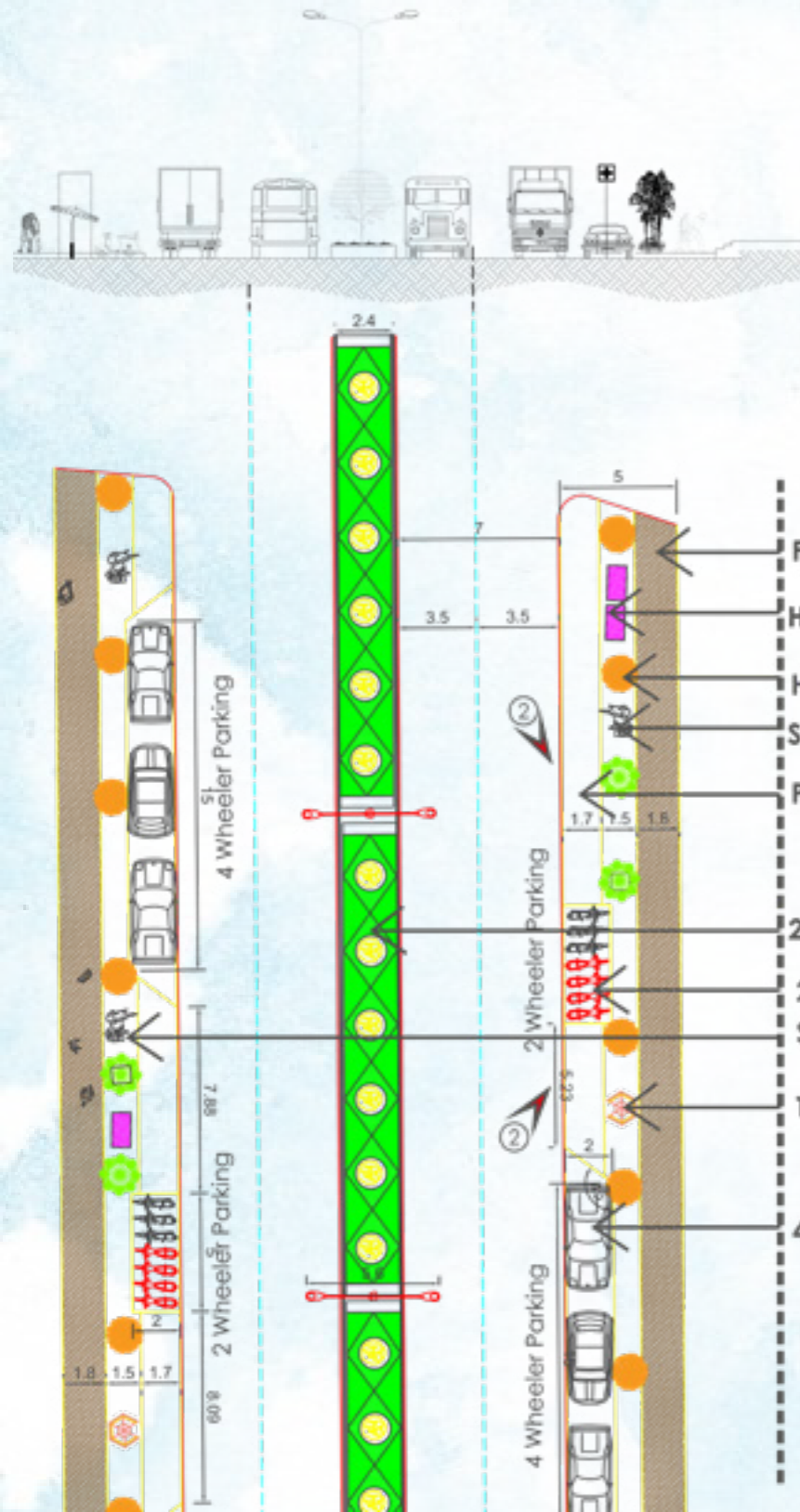
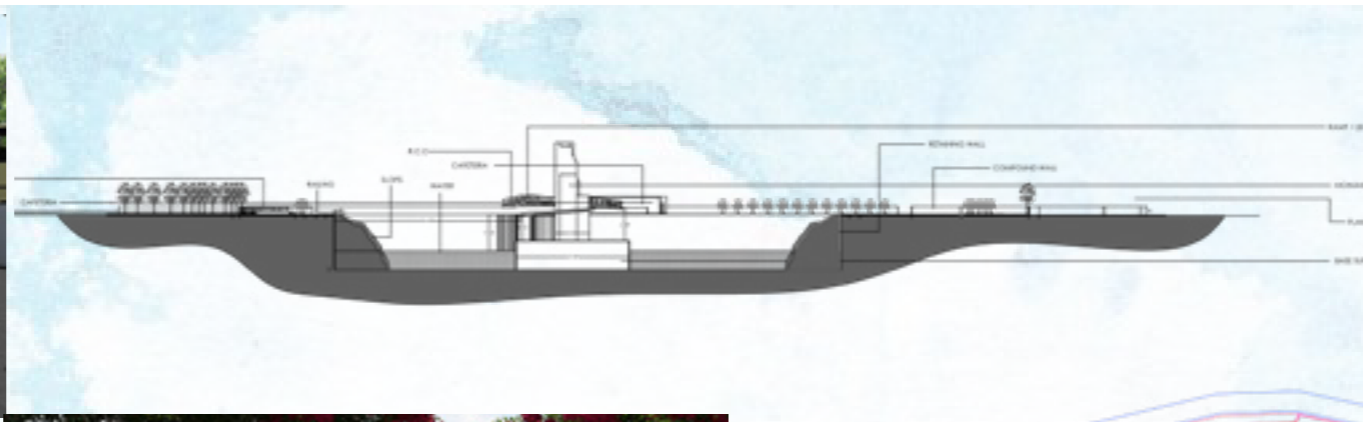
SECTION SHOWING PROMENADE

**REDEVELOPMENT OF HANUMAN JUNCTION**

4th Year / 1st Semester / 2016 / URBAN DESIGN / Case study / Literature study / Design Redevelopment / Proposals

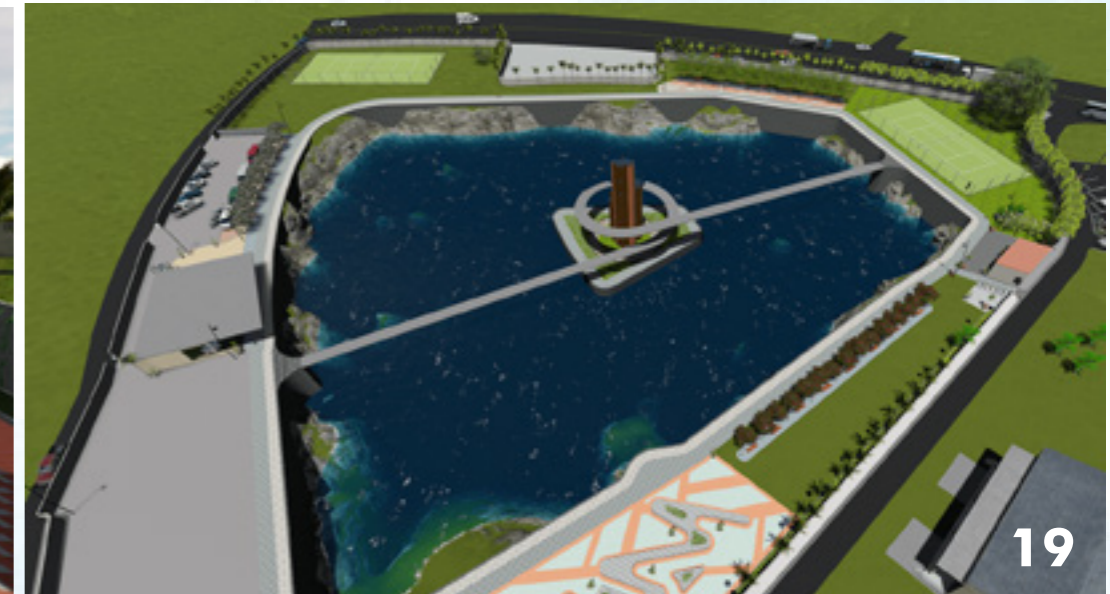
# RECREATION ZONE

To Safeguard the fading Ponds in the area, an unused pond is transformed into a recreation space. This recreation zone consists of food, fun, jogging tracks, children play area, park, cycling track, game zone, cafeteria, parking lot and many more.



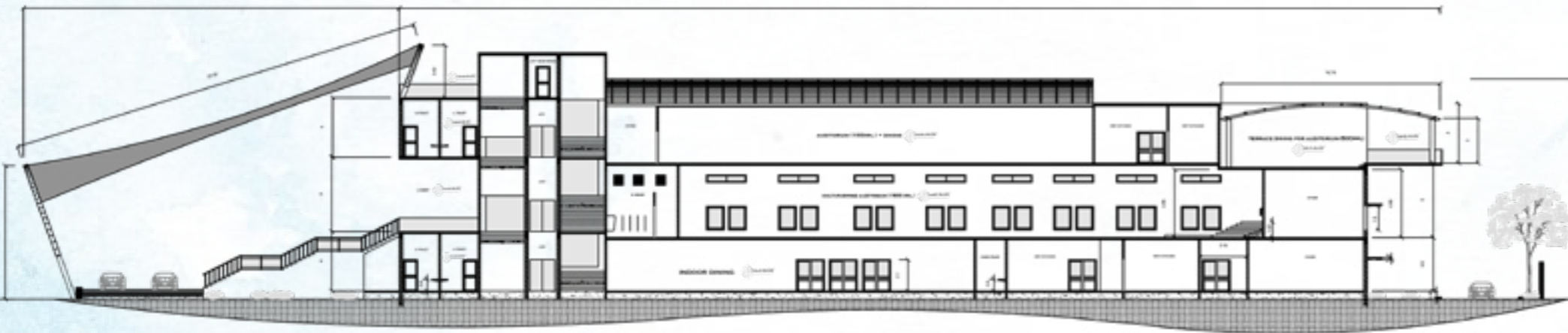
# PROMENADE

Analyzed the existing situation of the Promenades and defined a new way to give Amenities in Compact Areas .





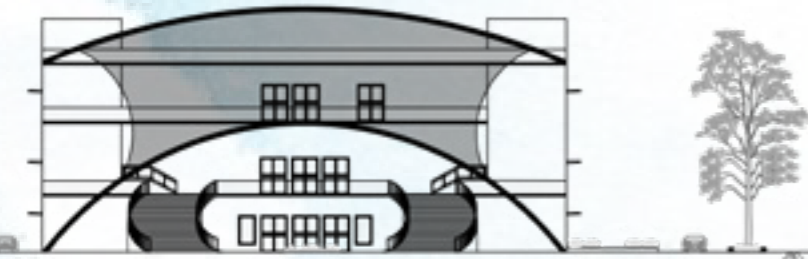
**OUTDOOR DINING**



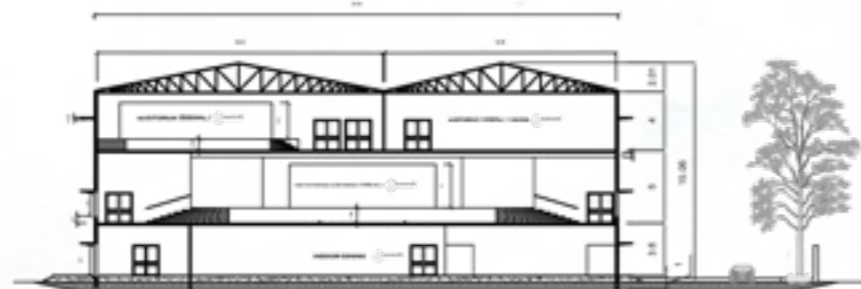
**SECTIONAL ELEVATION**



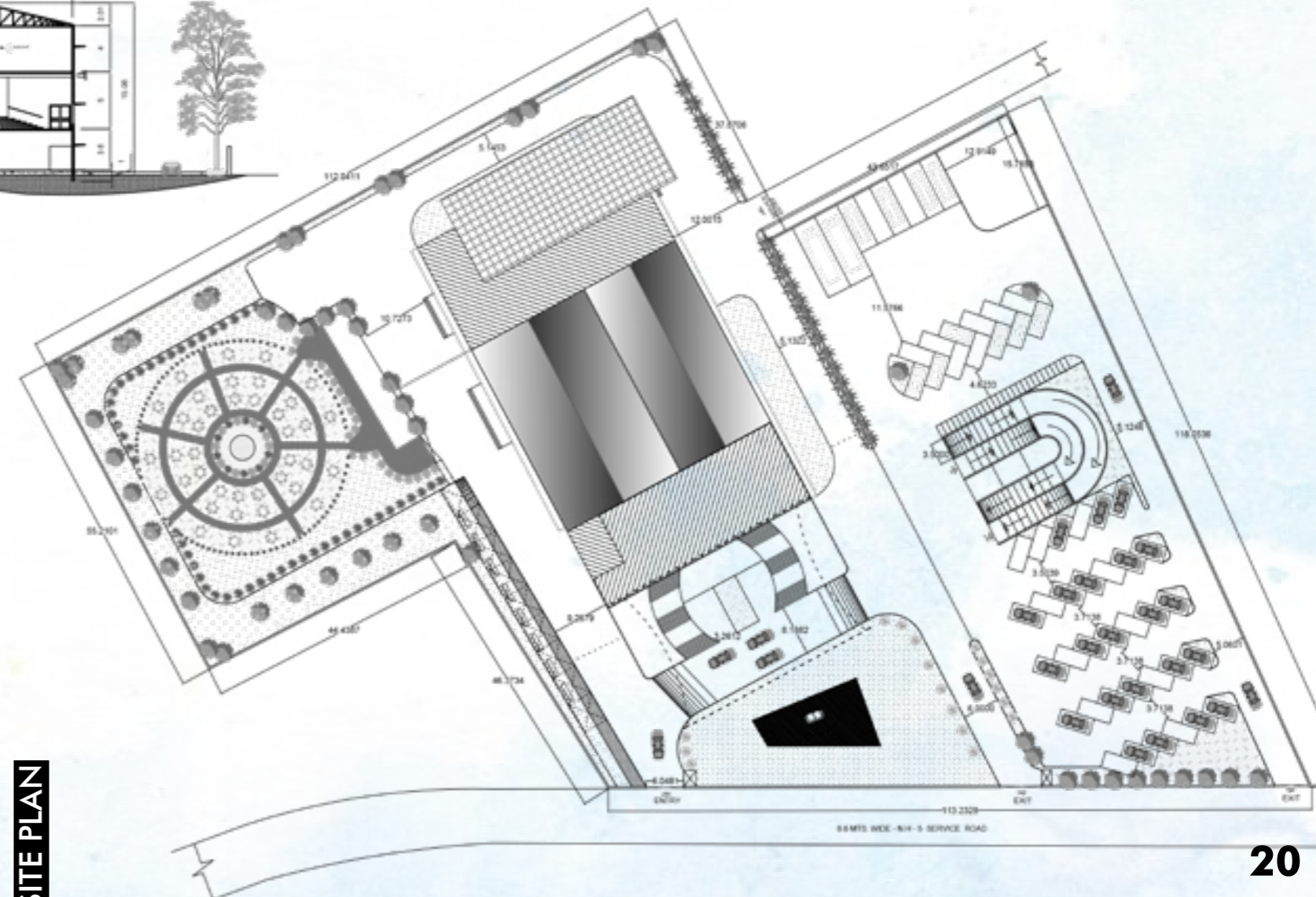
**TERRACE DINING**



**SOUTH ELEVATION**



**SECTIONAL ELEVATION**



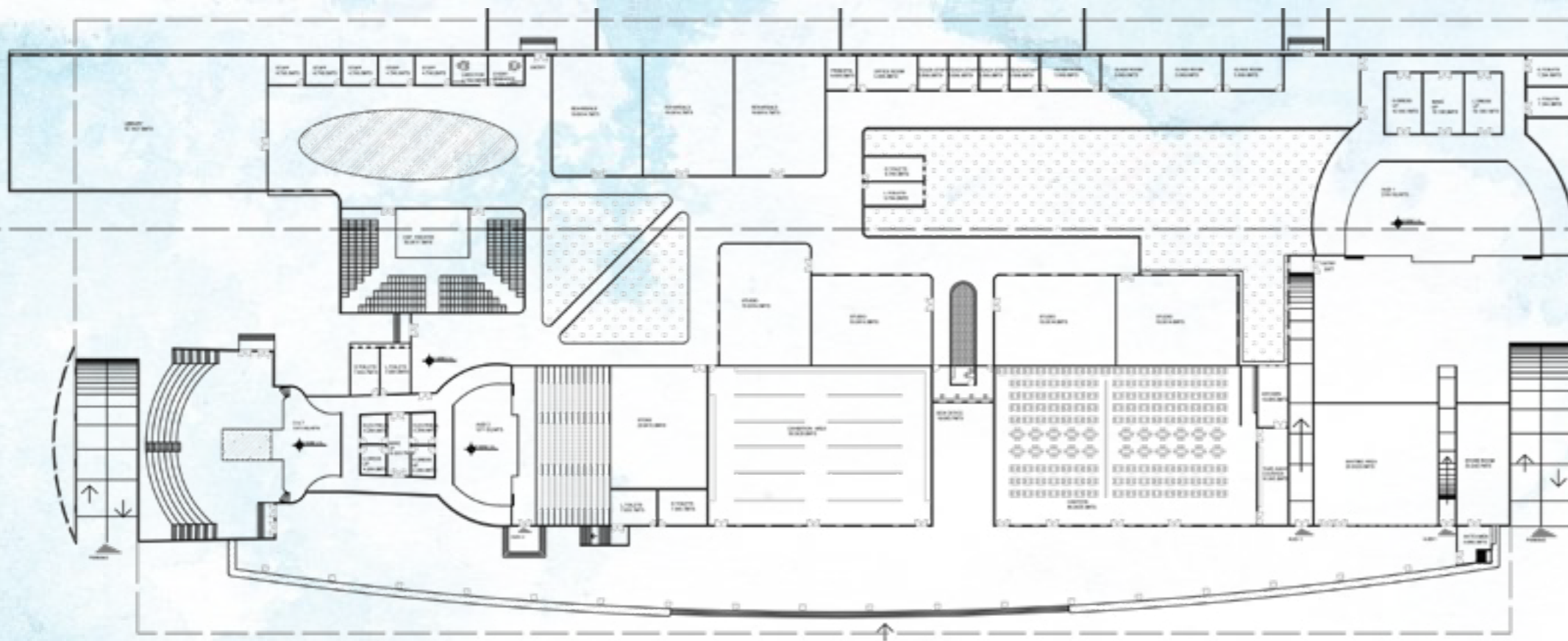
**SITE PLAN**



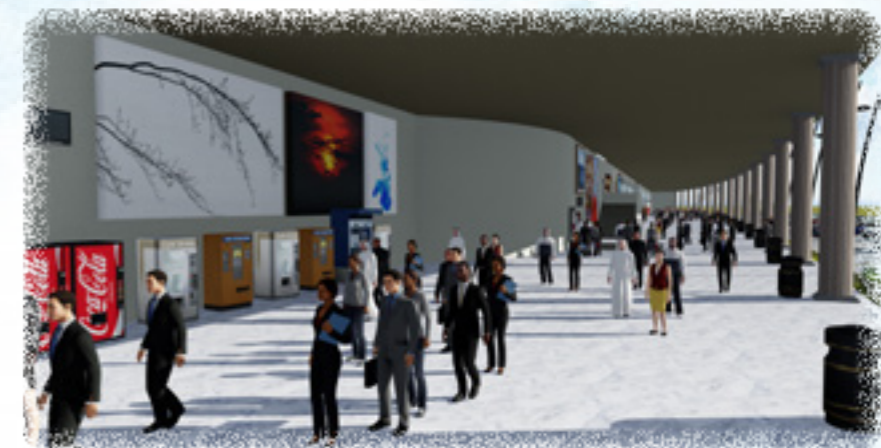
This function hall spans about 2 acres and is designed for 1600 guests with all the required amenities such as a drop off zone, parking facility (both on ground and basement), waiting areas, indoor and outdoor dining, the Hall in particular is fully ventilated with the positioning of windows and air ducts as required. The unified entrance is designed grandly with symmetry which is influenced by concept of marriage. The outdoor seating merges into landscape as the terrace dining is oriented opposite to the access road to withstand the sound & dust as it is a highway.

## **ESSENCE OF MARRIAGE FUNCTION HALL**

3rd Year / 2nd Semester / 2016 / Arch Design-V /  
Case study / Literature study /  
Design development / Proposal



**FLOOR PLAN**

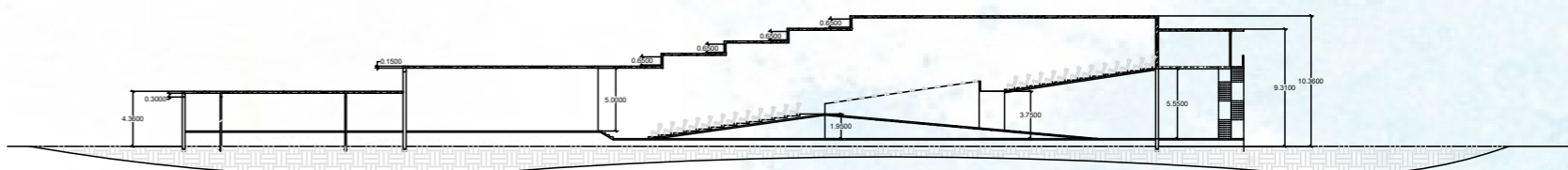
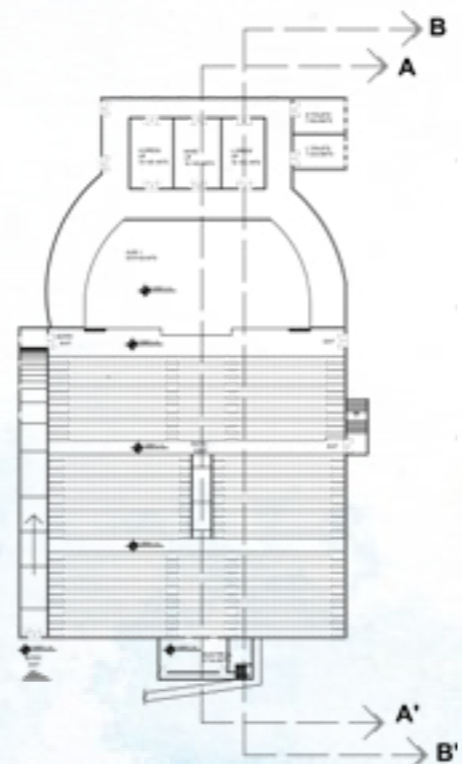


**ELEVATION**

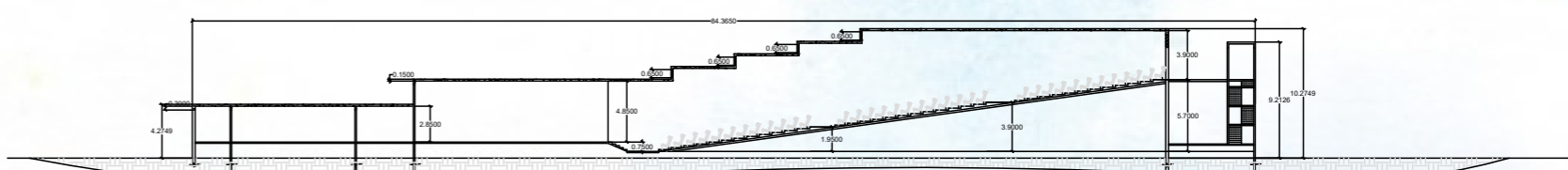
As this Performing arts centre is situated at the banks of a river the privacy and harmony comes in hand which i believe are the most important aspects of an ART. This art centre comprises of art class rooms, Auditoriums, an Open air theatre, Library, Practicing Decks, and some recreational spaces. The large common Lobby is designed to withstand all auditoriums crowd and reduce the congested feeling. All the Classrooms, Library, O.A.T and the Practicing Decks are Oriented towards the River for better ease off.

**BY THE BAY – CENTRE FOR PERFORMING ARTS**

3rd Year / 1st Semester / 2016 / Arch Design-IV / Case study / Literature study / Design development / Proposal



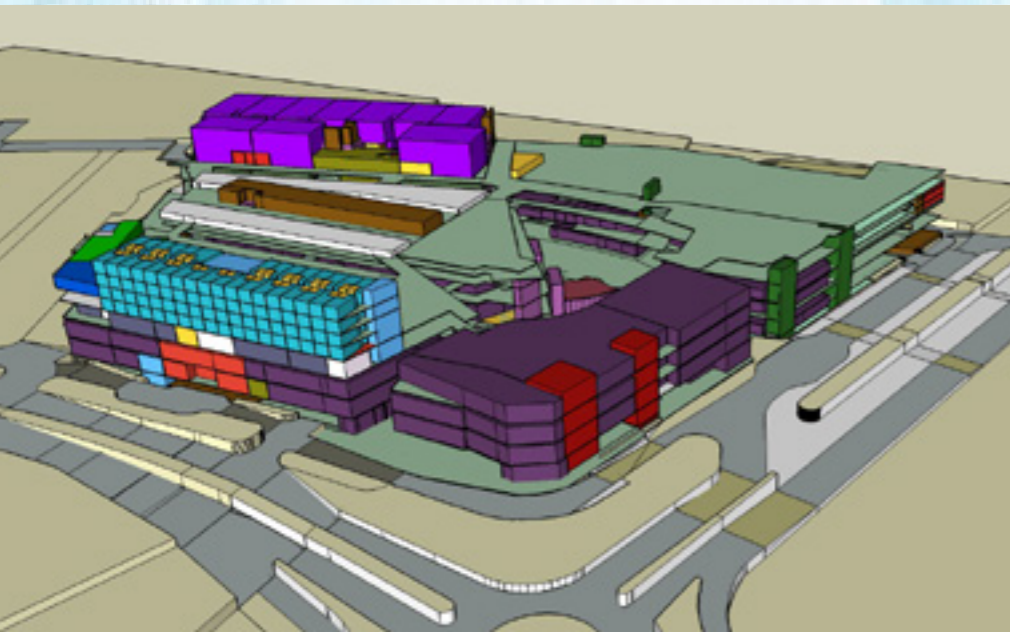
SECTION AT A - A'



SECTION AT B - B'

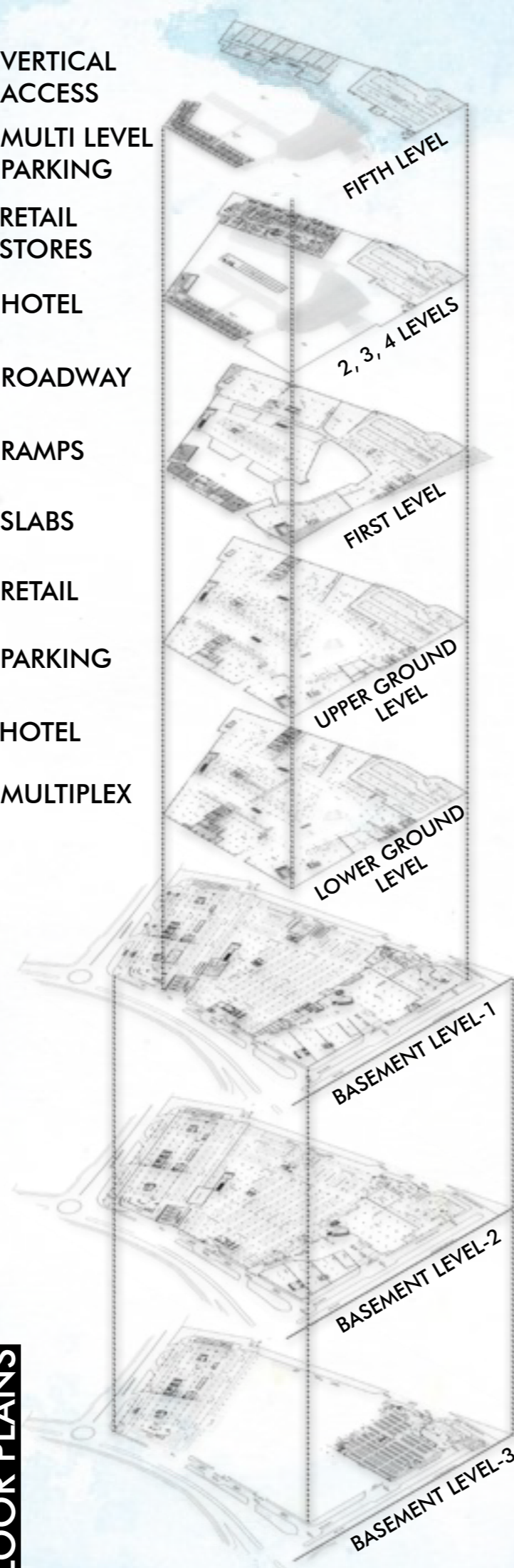
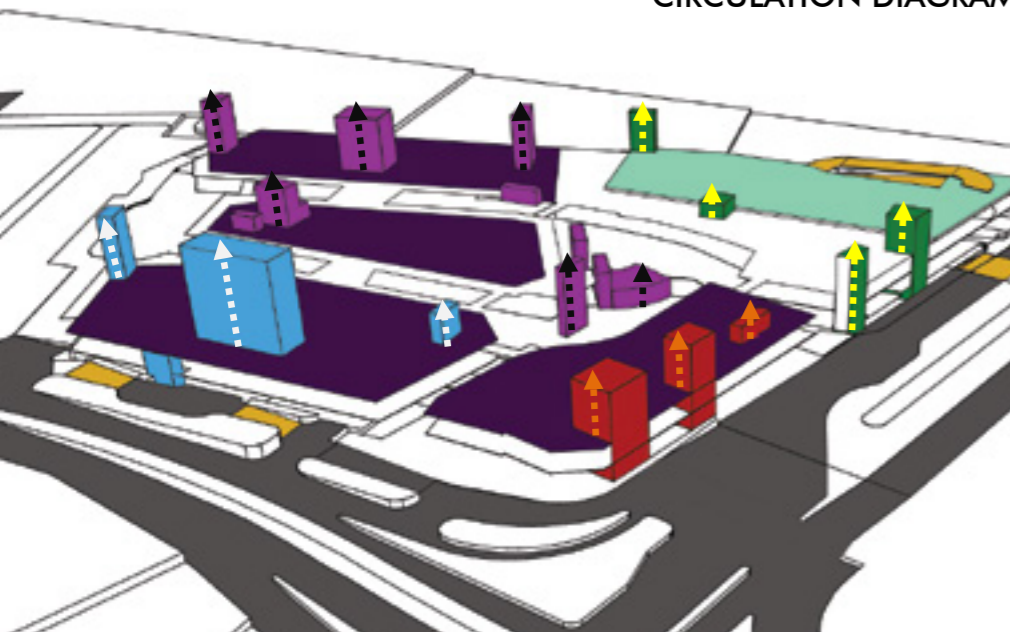
**INDOOR AUDITORIUM WITH CROSS SECTIONS**

PRE MASSING TO DIFFER B/W BUILT AND NON BUILT



- VERTICAL ACCESS
- MULTI LEVEL PARKING
- RETAIL STORES
- HOTEL
- ROADWAY
- RAMPS
- SLABS
- RETAIL
- PARKING
- HOTEL
- MULTIPLEX

CIRCULATION DIAGRAM



FLOOR PLANS



The Facade is designed to reflect the culture and style of the place. Whereas the space which connects the Blocks-A, B is for recreation which consists of vast amphitheatre, landscape lawn with sit-outs and an outdoor gaming zone.



GM Mall located in the city of bengaluru is a multi-functional space mainly consists of shopping areas, multiplexes, gaming zones, hotels and recreational spaces. The project came to us at 20% constructed and abandoned for years. Here we started analysing the already built part by studying the previous planning and defining new strategies to go forward in completion of the project. My role is to analyse the vertical and horizontal means of circulation of all the spaces in and around the project and design of the Facade and internal spaces in 3D.

**REDEFINING THE PURPOSE – GM MALL**

Internship / Group Work / 5th Year / 1st Semester / 2018 / Analysis / Case study / Design Redevelopment / Proposals

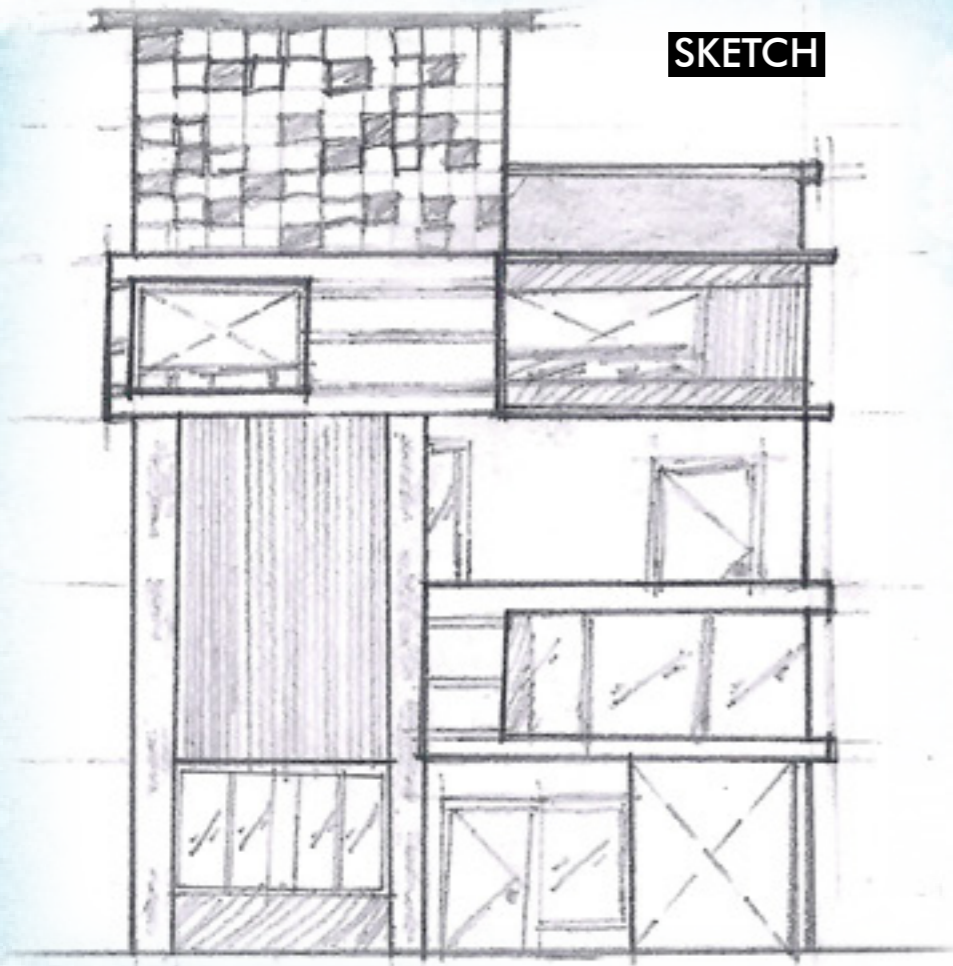


Situated at jubilee hills in hyderabad, this co-working space is visually minimilistic and well organised architecture. With a seating capacity of 130+ and an additional two 8 seater conference rooms and recreational spaces this co-working space gives a complete work environment and privacy for different types of offices running at a time. Also it can be converted into a single or two or multiple small offices by adjusting the partitions. The partitions slide into the fixed ones hiding when they are not in use making true single office experience. The workstations are designed to ergonomics to accomplish smooth working experience. The recreational spaces and lounge areas makes up the unconventional work environment.

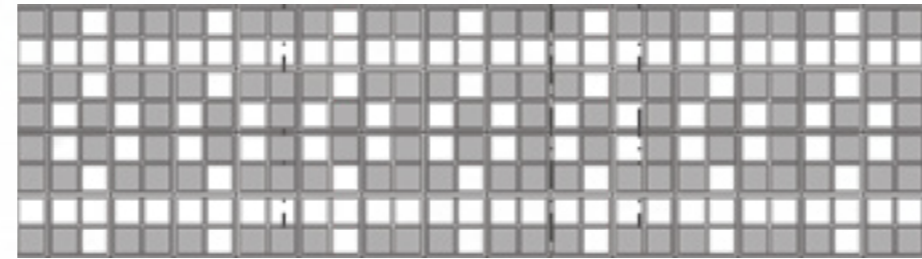
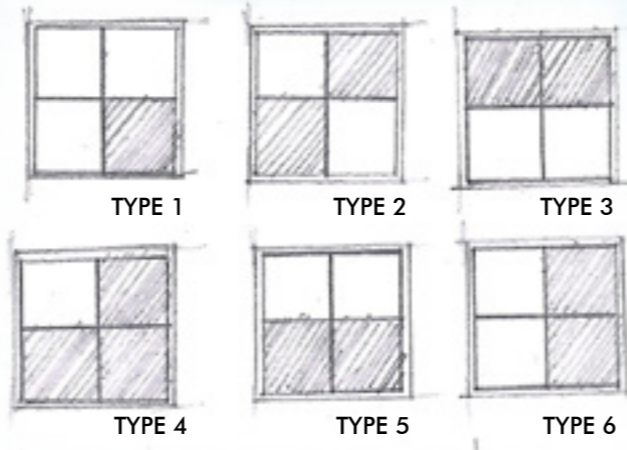
## CO-WORKING SPACE

Professional Practice / 2019 /  
Design development / Working Drawings / Site  
Co-ordination

SKETCH

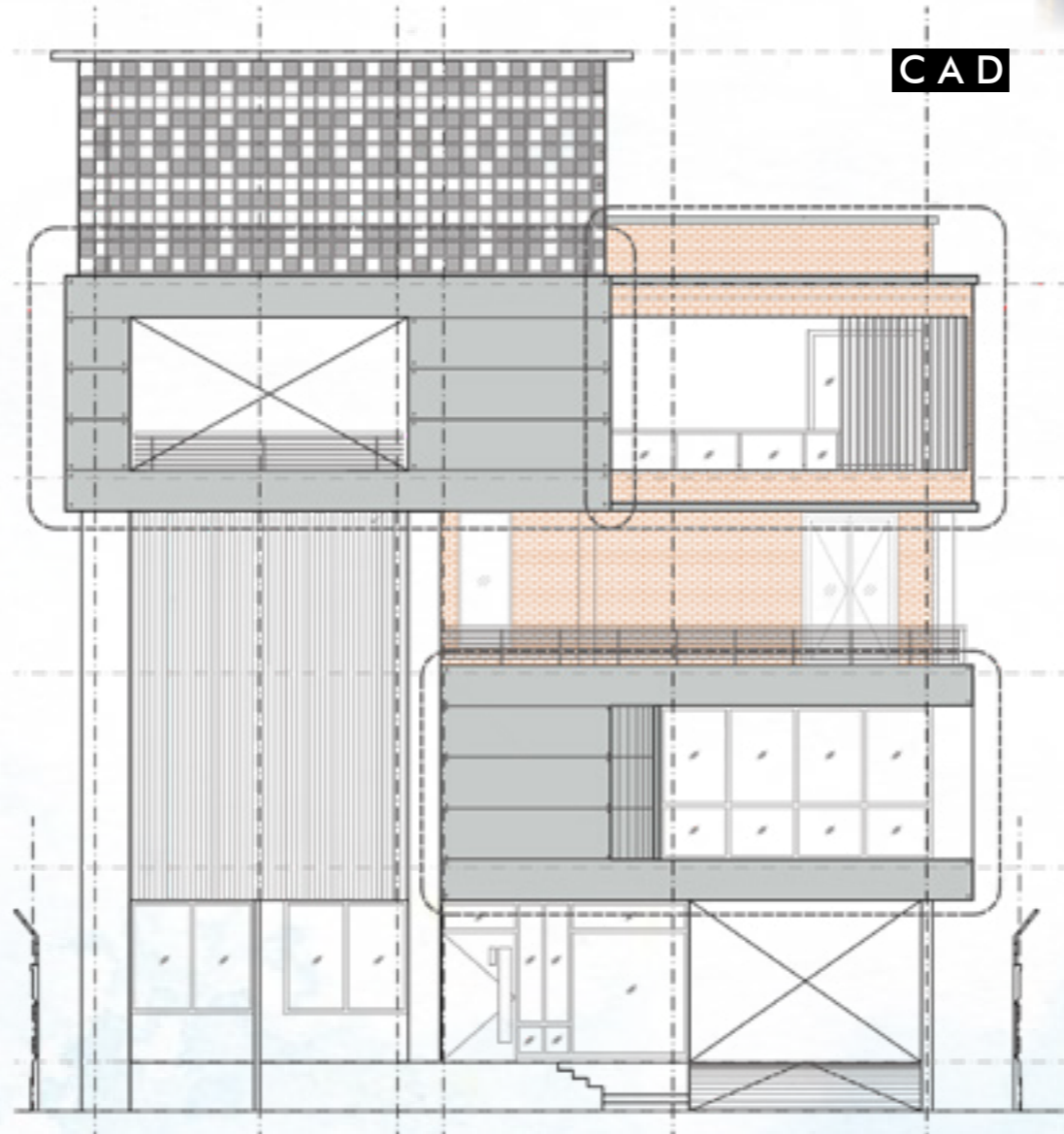


RENDER



JALI PATTERN WITH CUSTOM MOULDS - ON SITE CASTING

CAD



FRONT ELEVATION



EXPOSED CONCRETE CEILING WITH BAMBOO GRAINS



Situated at jayanagar in bengaluru, INDIA, this residence is one of it's kind of design combining traditional and contemporary architecture with exposed concrete and brickwork. With first floor consisting of indoor sports like squashcourt, TT, etc. the second and third floor residence and the terrace consists of a swimming pool, outdoor dining and a gymnasium.

The core element of this design is to expose the commonly covered materials of typical indian buildings. The brick and the concrete naturally having contrasting colours with glass combined makes the building look more natural.

Also the special onsite work done is exposed concrete ceilings with bamboo rafters over shuttering plates (form work) which turned out to a beautiful wood grained concrete ceiling.

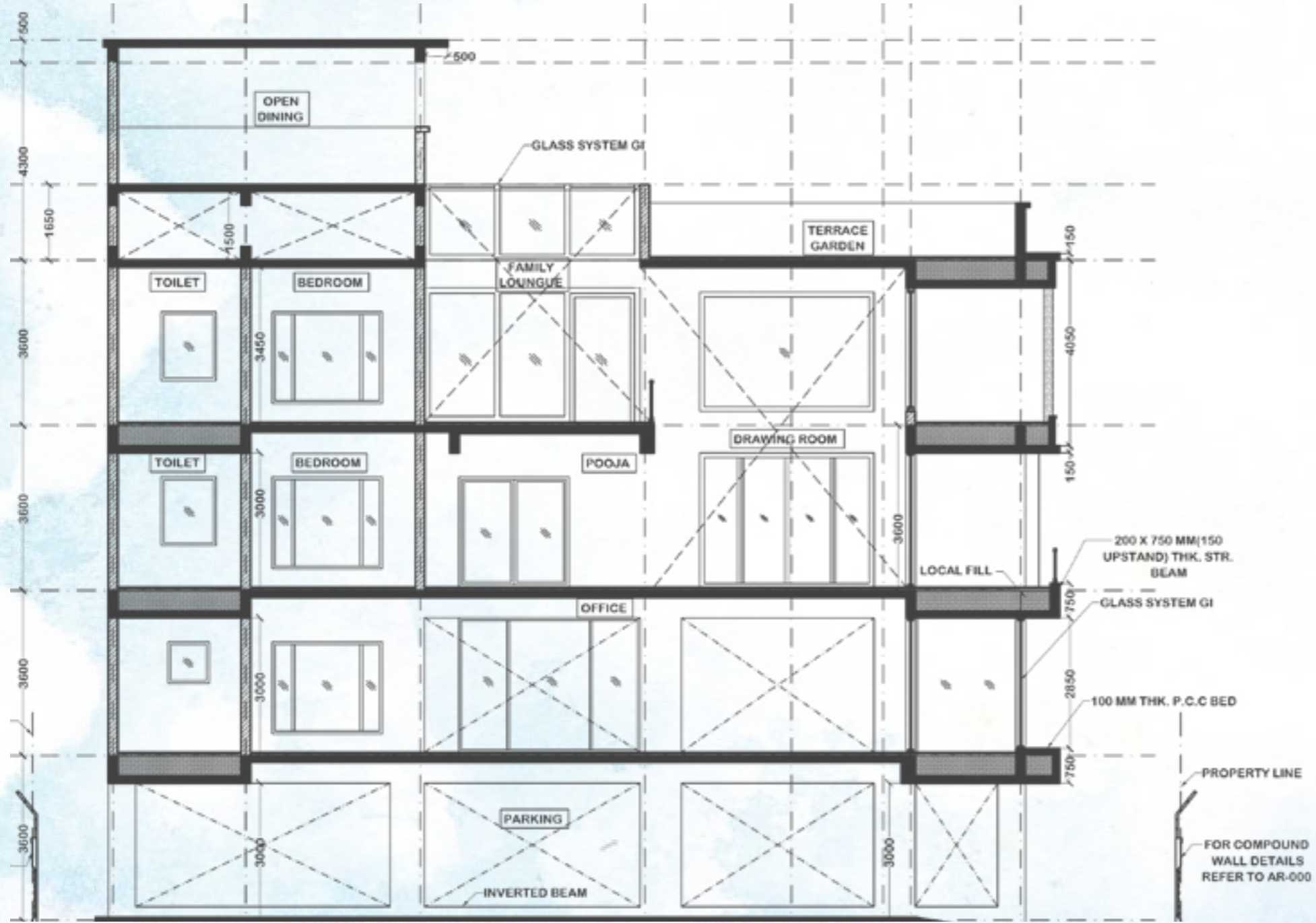
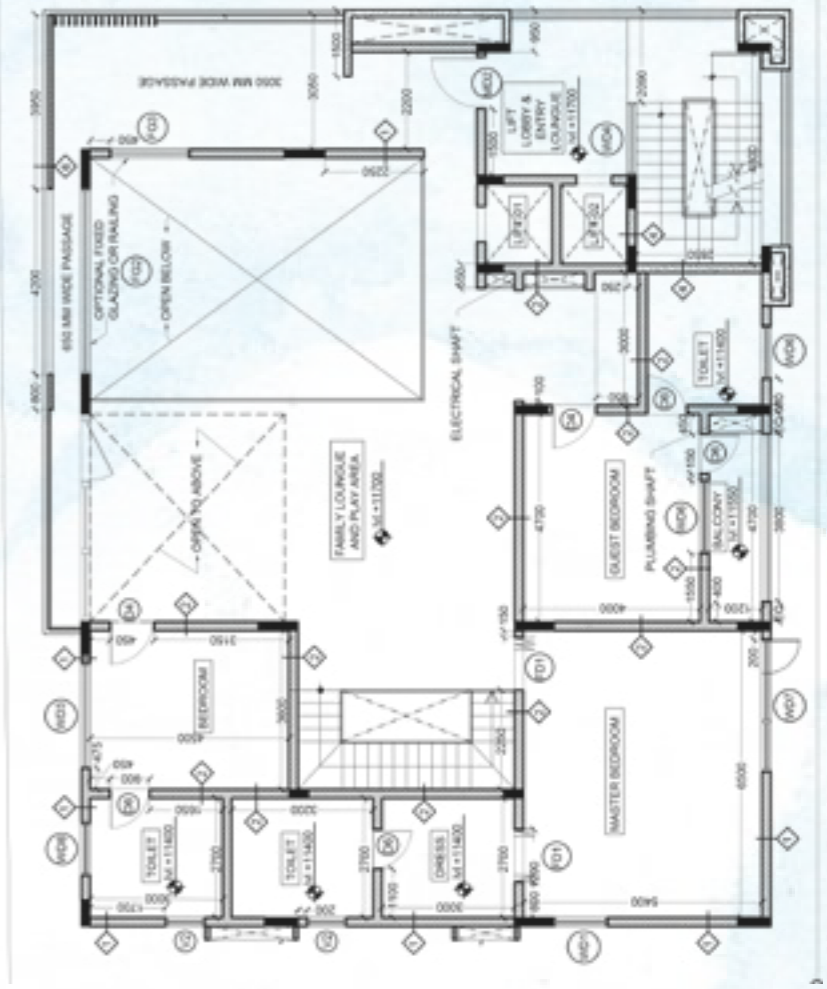
And the residence is designed to Vaasthu which inturn is designing according to climatic conditions as per my view on Vaasthu Shastra.

THE RESIDENCE

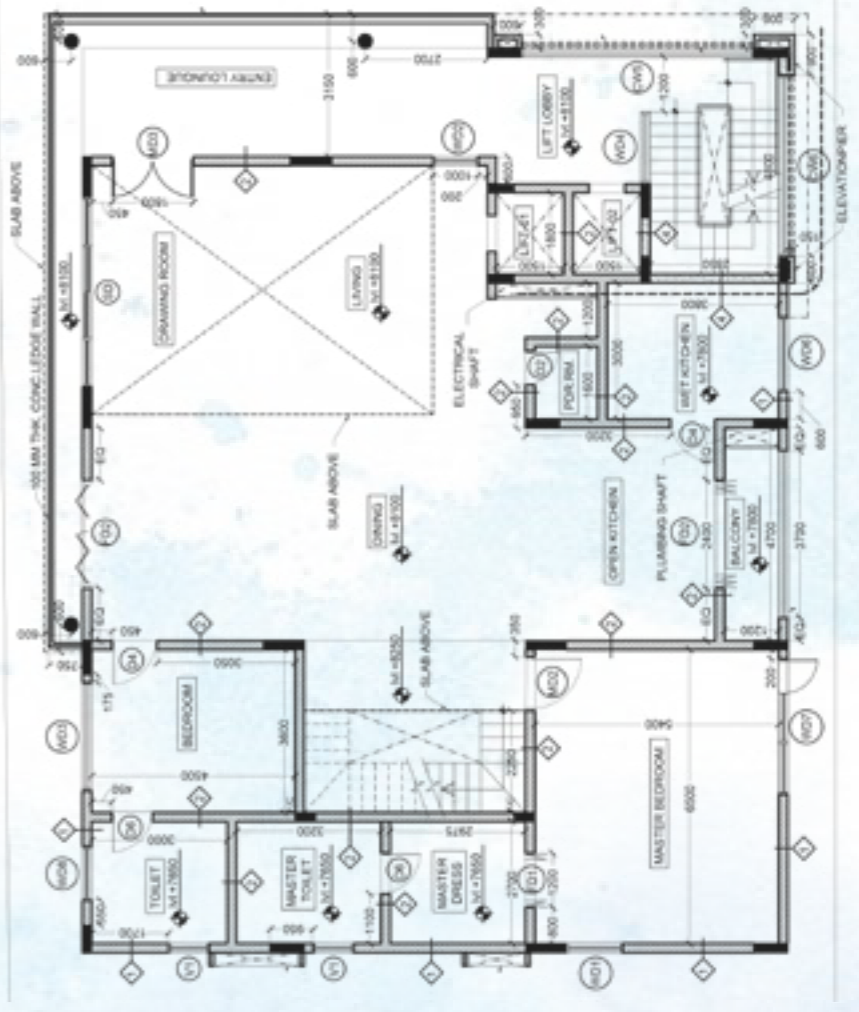
Professional Practice / 2019-2020 / Design development / Working Drawings / Site Co-ordination / Structural Co-ordination



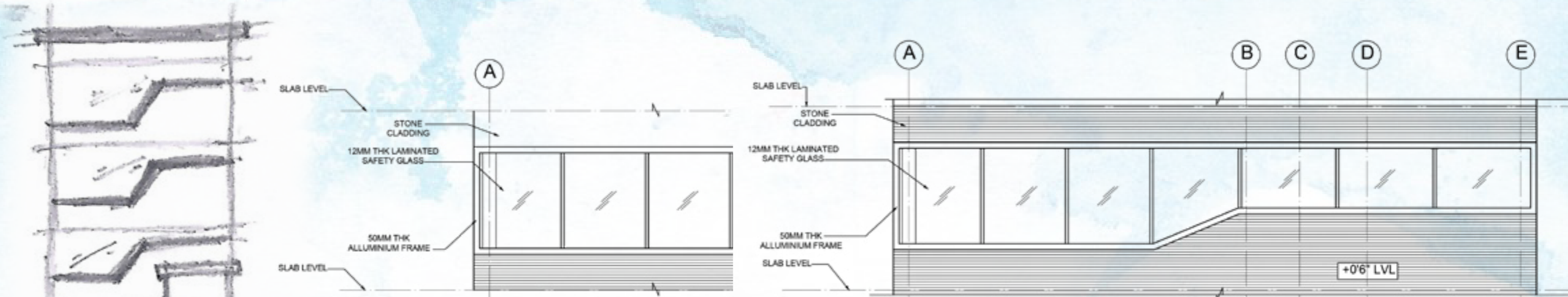
**ENTRANCE**



**SECTION THROUGH ATRIUM**



**FLOOR SEQUENCE**



**ELEVATION DETAILS**

Link to Executed Structure & Interiors - Video Walk-Through : <https://www.youtube.com/watch?v=tm1LkEVFT4o>

Located in the costal city Visakhapatnam of Andhra Pradesh, this Corporate office of Honey Group is the Head Branch and also its first own office building after their establishment. The core interest is to make the building a landmark in its vicinity with minimal design.

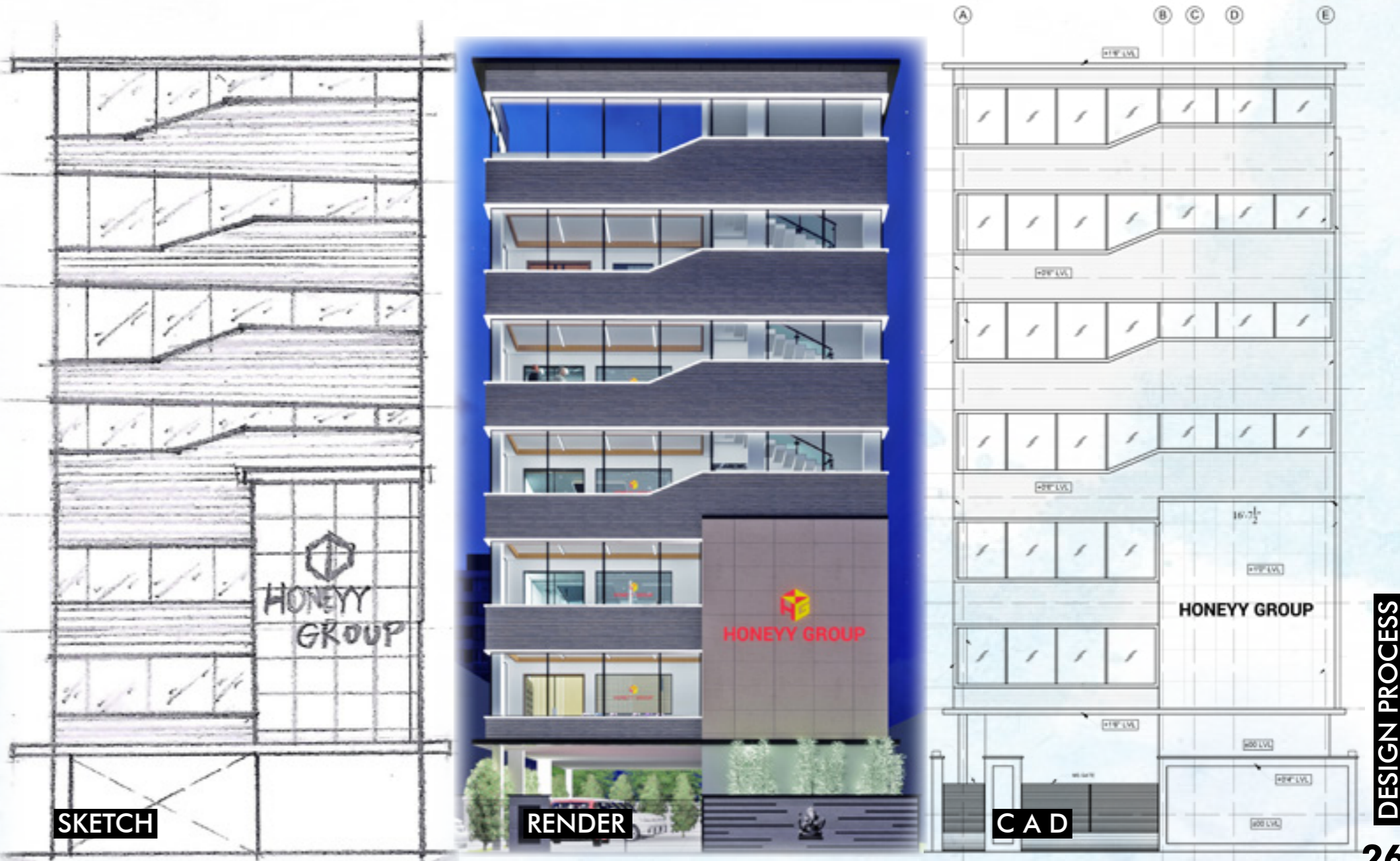
The 5 storey building consists of a full length, properly divided work zones of six different departments in 4 floors and the 5th floor is catered for a residence. All the floors are designed to operate individually with their own reception, lobby area and rest rooms.

The building is designed according to fire norms with wet-riser system installed. Also reaching the needs of Air-conditioning, VRV system is installed and concealed properly.

The Interiors are designed to cader around 50 workstations, a 100 employee capacity training hall which can be partitioned into 3 individual rooms using foldable partitions, 9 client oriented discussion rooms equipped with a white board and a monitor, Conference room, a survelliance room and the director's cabins.

**CORPORATE OFFICE**

Professional Practice / 2021-2022 / Conceptual / Design development / Working Drawings / Site Co-ordination / Structural Co-ordintion / Site Execution / Interior Design

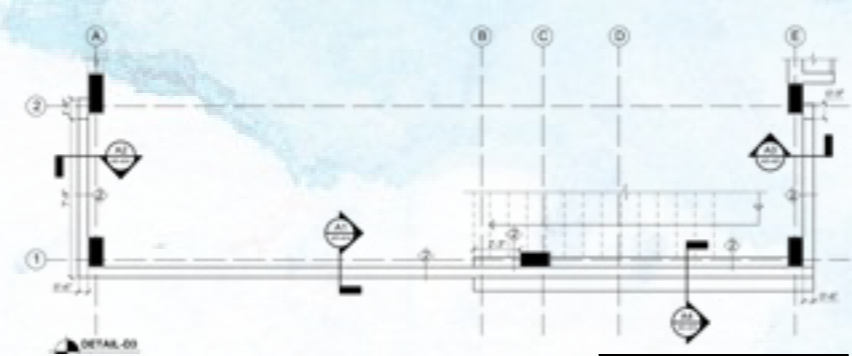


**SKETCH**

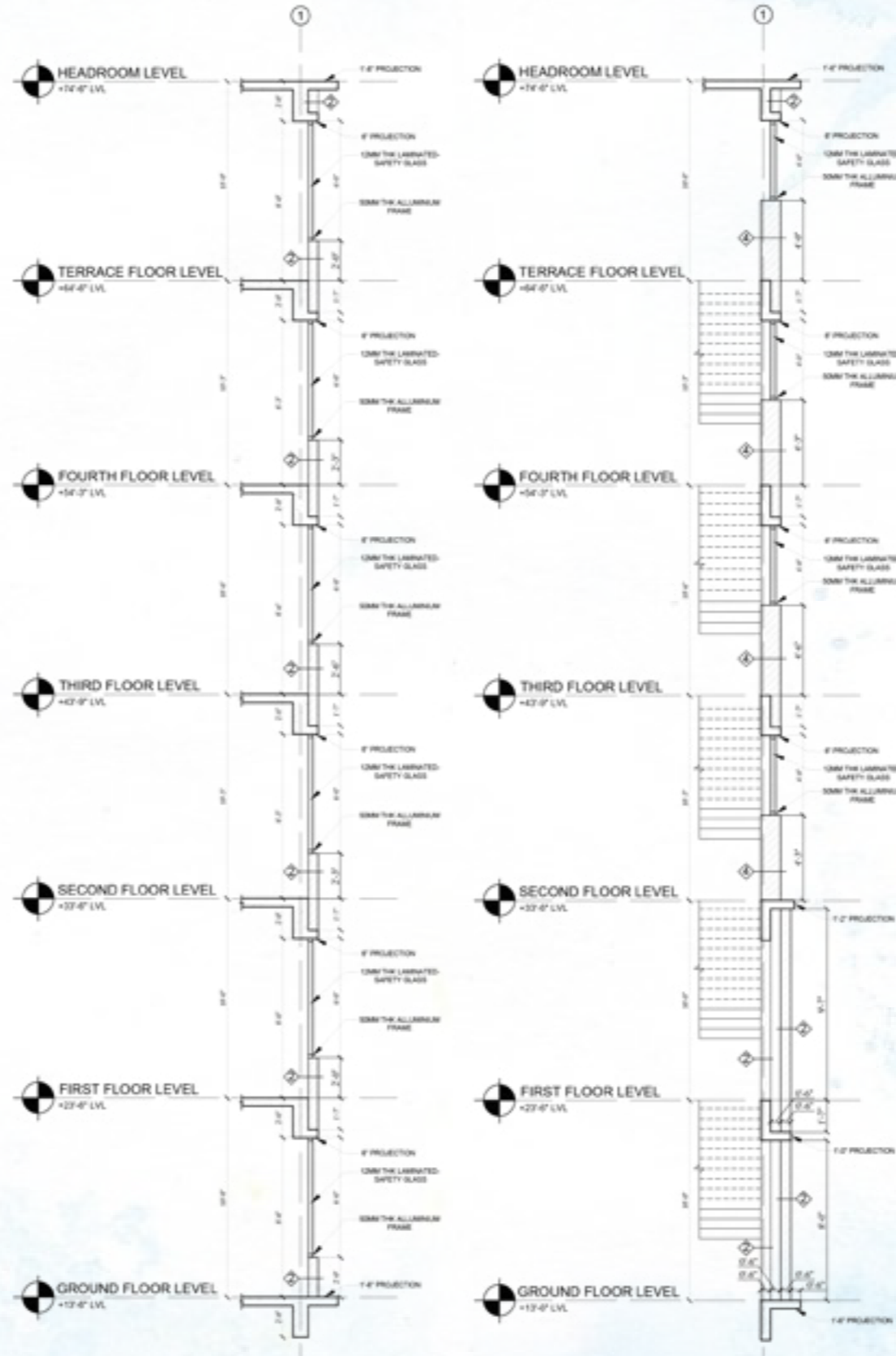
**RENDER**

**CAD**

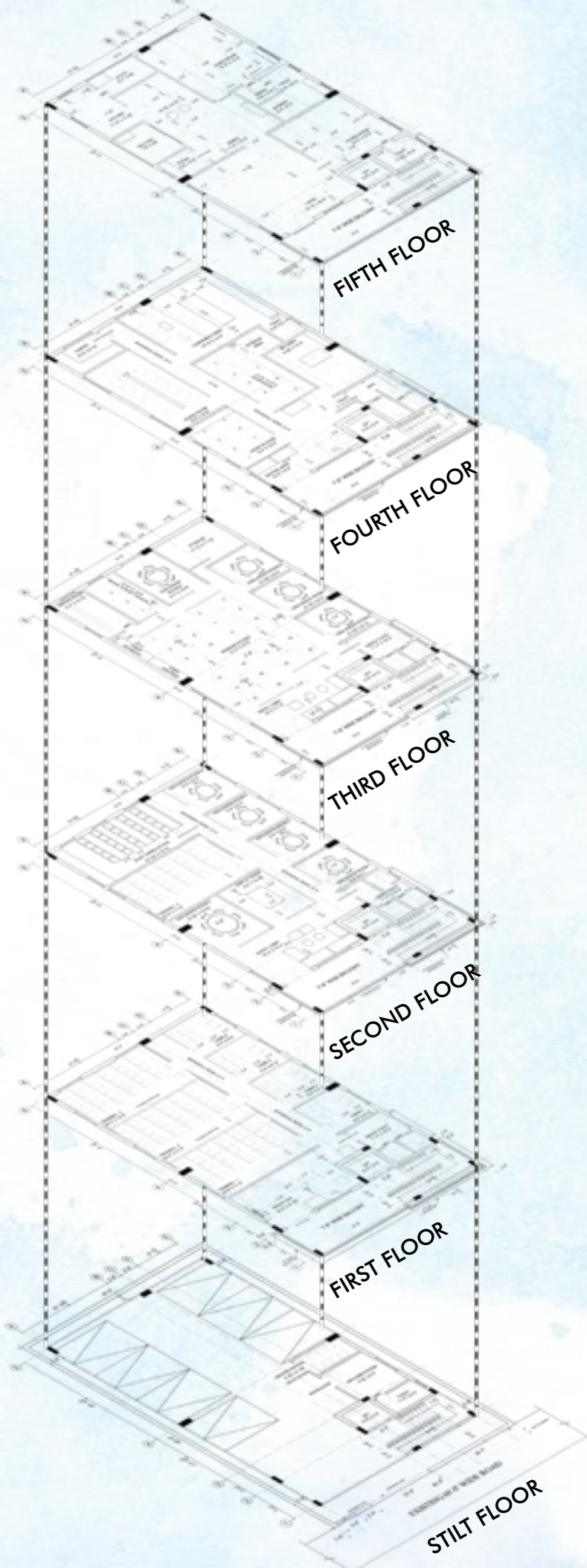
**DESIGN PROCESS**



**PLAN DETAIL**



**WALL SECTIONS OF ELEVATION DETAILS**



**FLOOR SEQUENCE 27**

**FROM TOP :**

**Corridor Area**  
Spacious / Good Natural Light-  
ing / Branding Window

**Reception Area**  
Organized / Waiting Area /  
Photo wall

**GM Cabins**  
Visible & Audible Separation /  
Highly Efficient Work-Stations /  
Spacious

**Discussion Rooms**  
Visible & Audible Separation /  
Equipped with Monitors & draw-  
ing boards / Private

**Work-Station**  
Co-Working Space with well lit  
areas / 30 Seating Capacity /  
Spacious individual Tables of D x  
L - 2' x 4' / Lighting Design with  
additional integrated software.

**Chairman Cabin**  
Spacious / Organized space for  
formal and informal seating /  
Concealed Rest room Door into  
Wall Paneling / Grandeur Back-  
ground with Gold strip inlayed  
into Granite Cladding



MAP 1: Showing the demographics of Hudson county with relation to the community.



MAP 2: Showing the land use patterns from 1999 in Hudson county and understanding the changing communities.



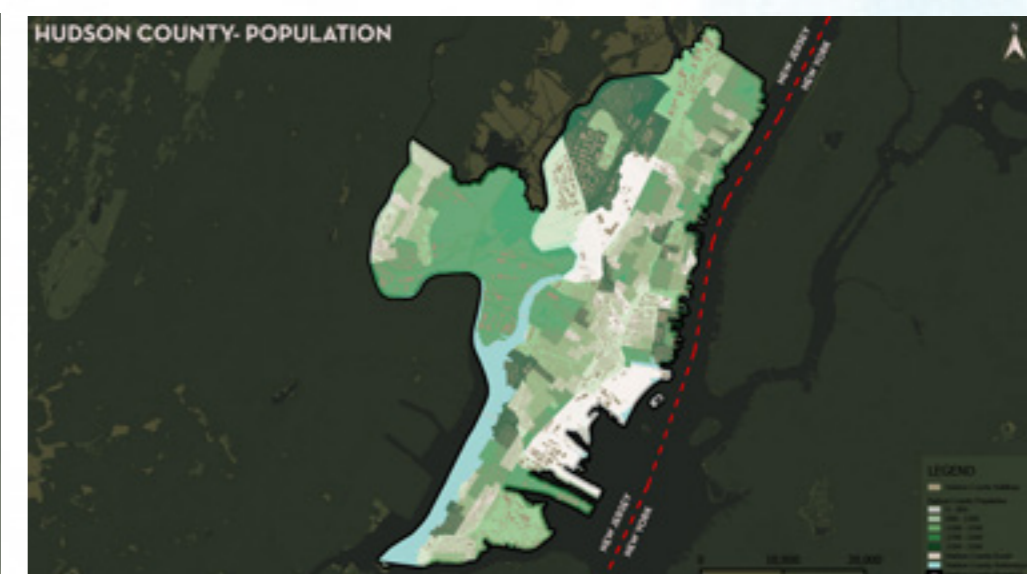
MAP 3: Showing the Economic data with most number of jobs spread throughout the community.



MAP 4: Showing the highest to lowest Owner Households in the vicinity.



MAP 5: Showing the highest to lowest Rental Households in the vicinity.



MAP 6: Showing the Population spread pattern over the county.

As of United States Census Bureau, about 42% of the total population in Hudson County are foreign born (immigrants). The 5 largest ethnic groups in Hudson County, NJ are White (Non-Hispanic) (28.6%), White (Hispanic) (21.8%), Asian (Non-Hispanic) (15.5%), Other (Hispanic) (12.7%), and Black or African American (Non-Hispanic) (10.5%). In 2020, the median property value in Hudson County, NJ was \$400, and the homeownership rate was 32.4%. Most people in Hudson County, NJ used public transit to get to work, and the average commute time was 36.2 minutes. The average car ownership in Hudson County, NJ was 1 car per household.

The Research is based on the immigrant populations in Hudson County, and why they chose to live there based on major demographic and employment data. It is targeted to choose top 2-3 immigrant populations namely Hispanic Americans, Chinese Americans and Indian Americans which is based on available Census data.

## GEOGRAPHIC INFORMATION SYSTEMS IMMIGRANTS IN HUDSON COUNTY

M.Arch / Fall 2022 / GIS / Concept / Development / Proposal / Outcomes

### Tools Used: QGIS

1. Clip : Many types of data is found either to entire state of New Jersey or entire US, so it has to be clipped to our study area.
2. Analysis Tools: Selecting features by location to save as separate tracts from the population data.
3. Intersection: It is used in illustrating the demographics to the tracts data.
4. Field Calculator: Used to study various datasets and combining them to get the relatable data.
5. Layout Manager: Used to posterize the maps with accurate legends and scale.



MAP 7: Showing the population of whites and their domination over the north-west part of Hudson county.



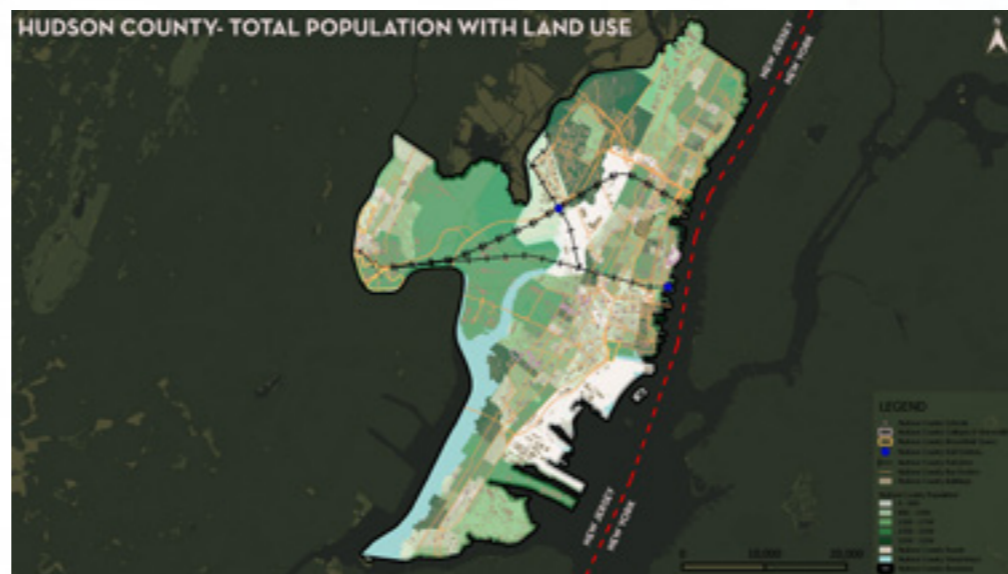
MAP 8: Showing the population of Black / African Americans and their domination over the central and south-central part of Hudson county.



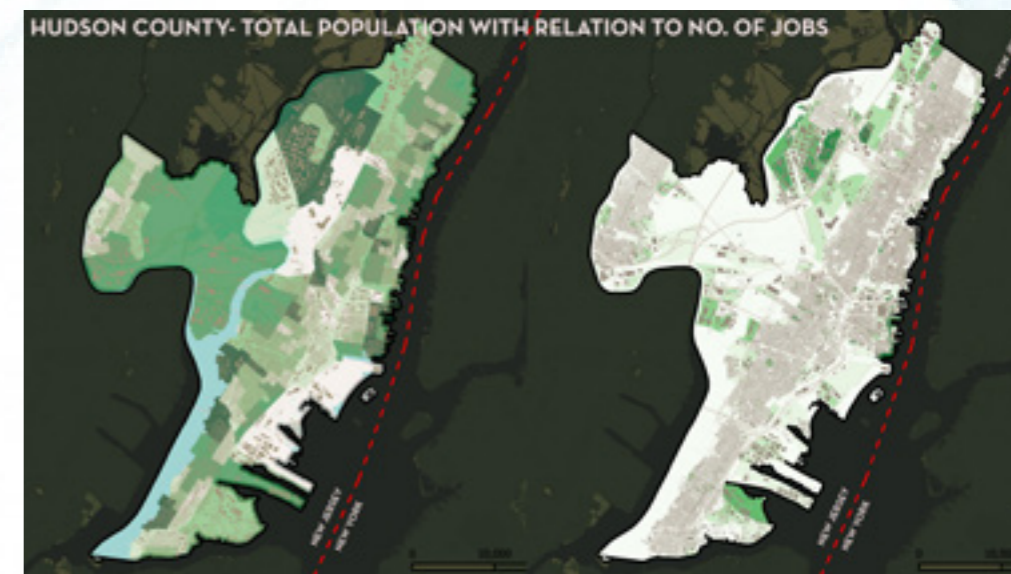
MAP 9: Showing the population of American Indian Immigrants and their spread throughout all of Hudson county with noticeable high on central and dense urban areas.



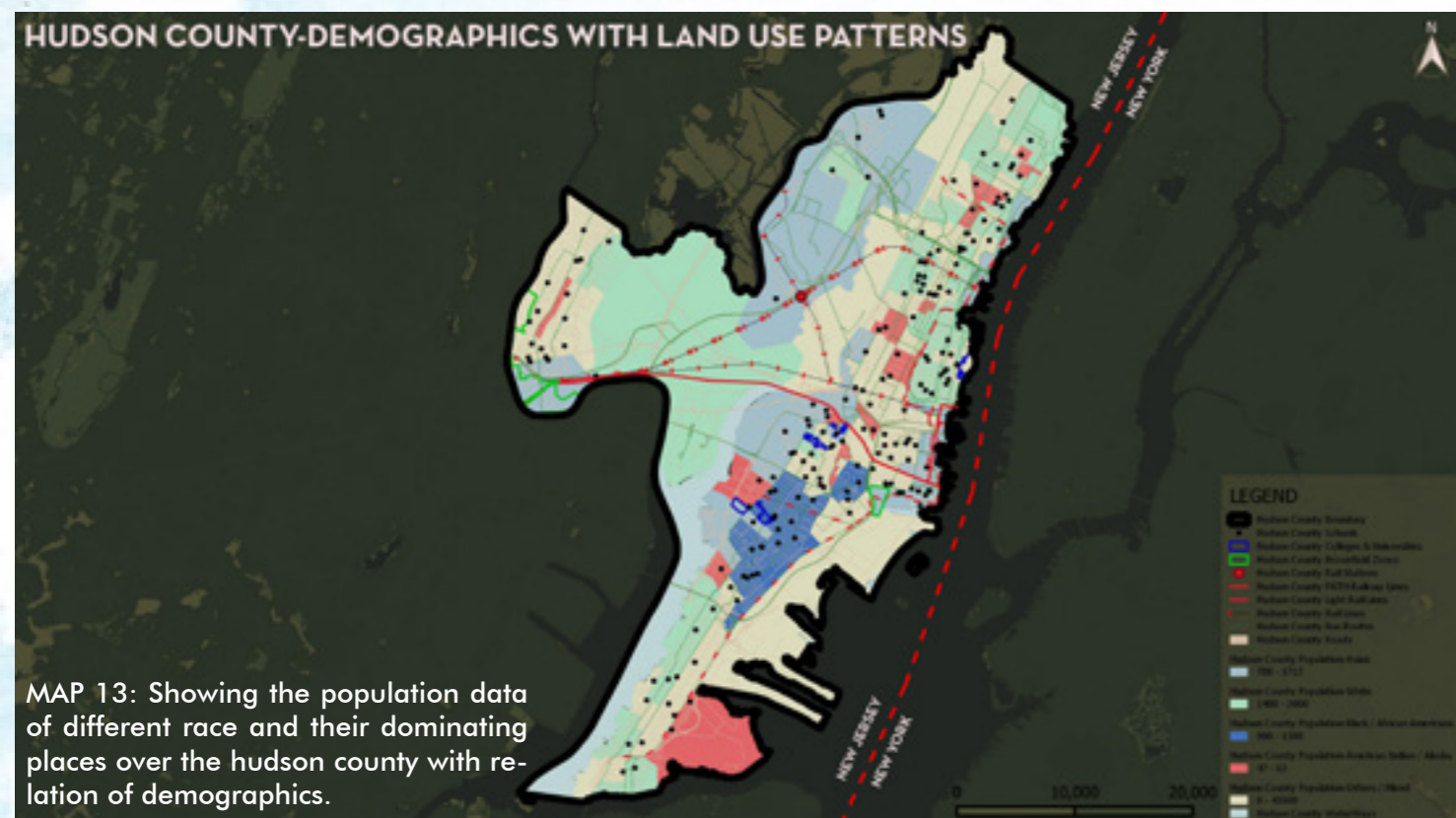
MAP 10: Showing the population of Asians and their spread throughout all of Hudson county with noticeable high on central and dense urban areas.



MAP 11: Showing the population data with relating to demographics shows the major population lives out of reach to major transit centres and most of them can only be reached by one public transport (Bus). but the whole is strategically connected to nearby schools and colleges which are spread over the county.



MAP 12: Showing the population data with relation to Jobs and it depicts that the most number of registered job holders are living over slightly under-dense populated areas.



MAP 13: Showing the population data of different race and their dominating places over the Hudson county with relation of demographics.

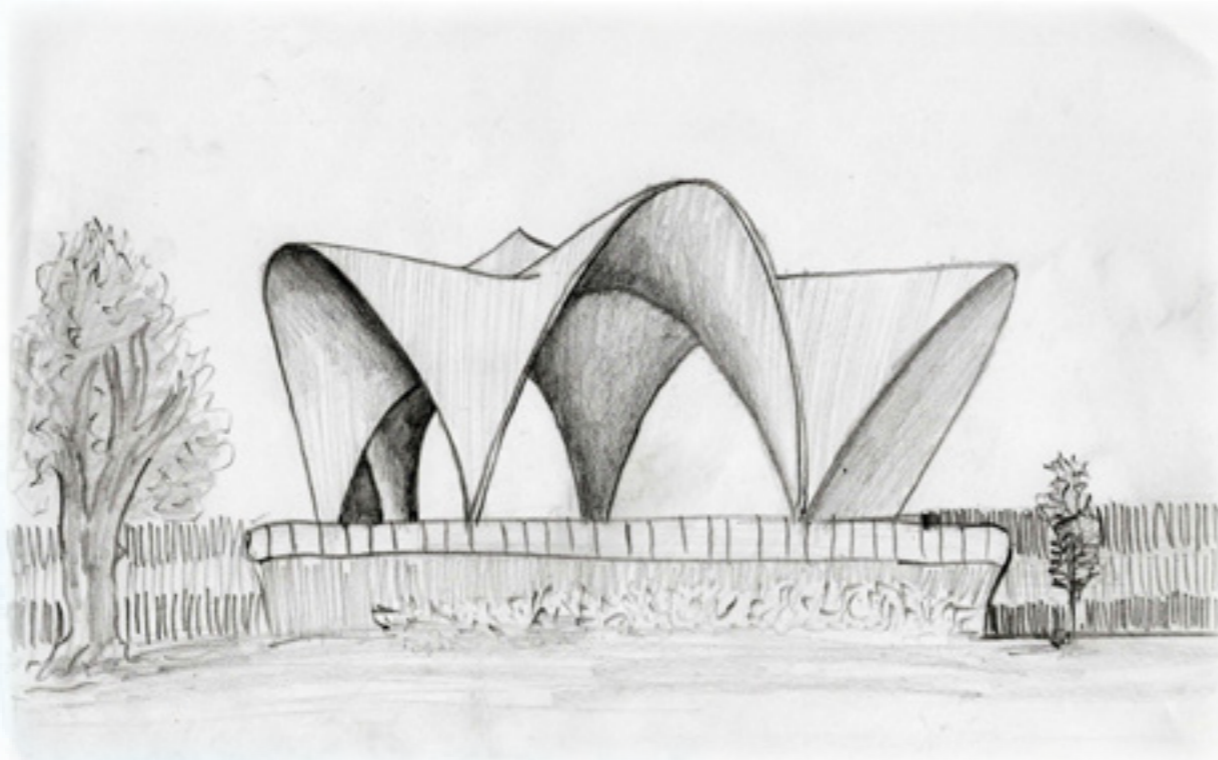
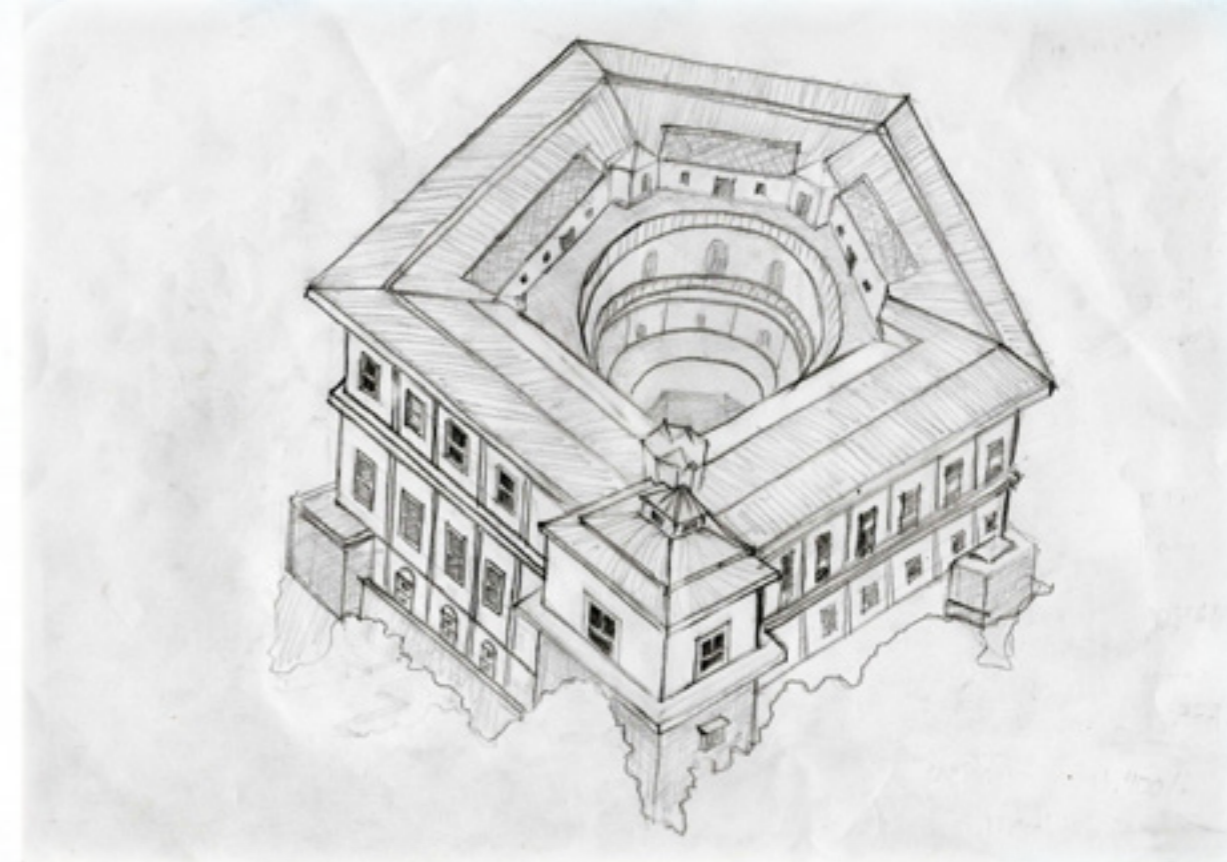
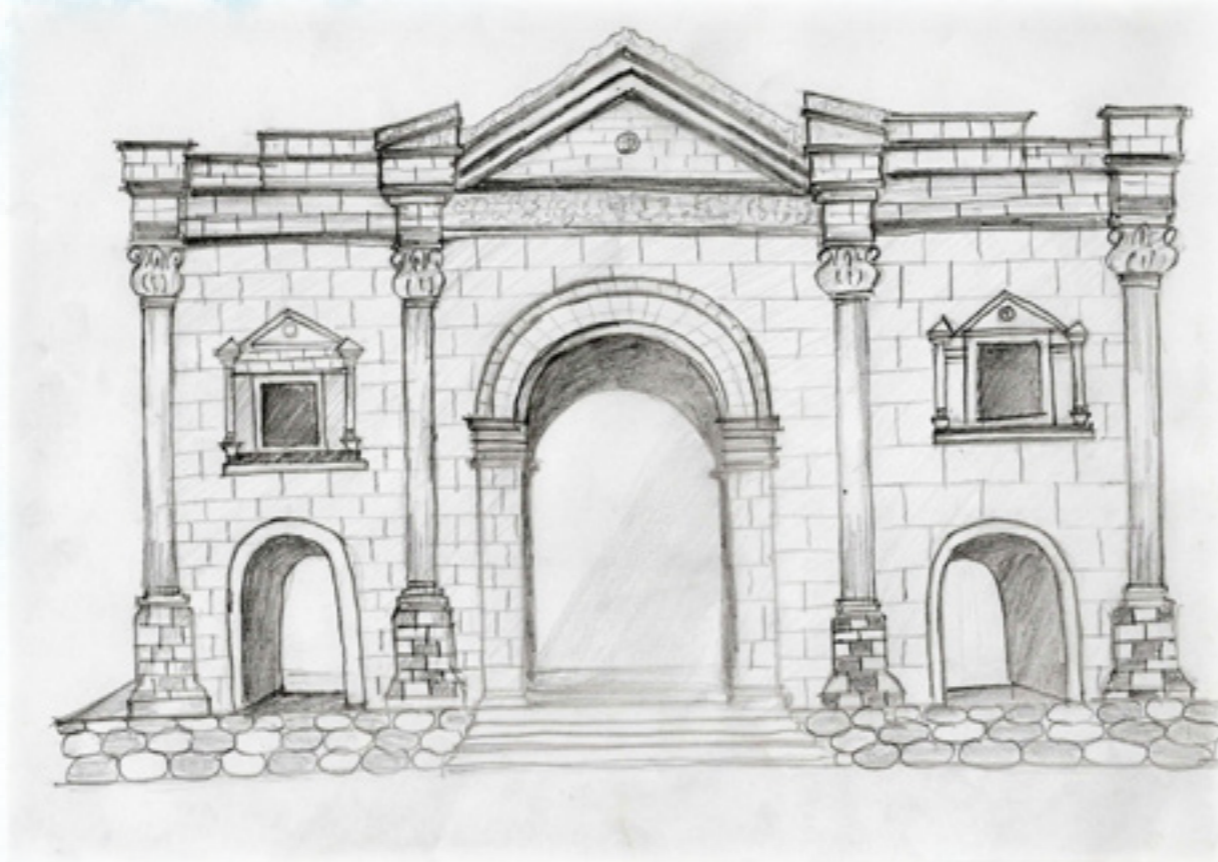
### Conclusion:

As per the data produced from MAP 3, MAP 4, MAP 5, MAP 12 & MAP 13 it shows the white population lives in Secaucus, Bayonne and North Bergen Communities which are highly out of reach from major public transportation with most number of owner households and own vehicles to help get them going. Whereas the Black / African American population are situated in southern part of Jersey city with least number of jobs and high number of rental households and high access to public transportation. Coming to the American Indian population where they spread over all parts of Hudson county with noticeably locating near to major transit centres and equally distributed owner and rental households which is as same as asian population scenario. And by comparing and analysing MAP 9 & MAP 10 with MAP 1 shows the Immigrant population living nearby major transit centres and evenly distributed rental and owner households with equally distributed having own cars and no cars and less registered Jobs. Comparing these findings also matched with the available census data and facts of Hudson county. So this is how the immigrants shaped the communities in Hudson county with immigrant population living nearby public transit centres forming distinct communities for themselves.

### Bibliography:

1. NJDEP Bureau of GIS. (n.d.),
2. Hudson County/NewGIN\_3.
3. FRED Economic Data of New Jersey,
4. US Census Data (Flow Mapper),
5. NJGIN open data of Hudson county,
6. Pew research center,
7. Rent & Cost of Living in Hudson county from FRED Economic Data,
8. Migration policy Institute - Profile of Unauthorized population,
9. Analytical Data from DATA USA,
10. Analysis from Census Reporter,
11. NEWS and Facts from Hudson Reporter.

# FREE HAND SKETCHING



## FROM TOP LEFT :

### GATE WAY

Personal / Summer 2016 / A3 Texture Sheet / Free Hand

### HOUSE

Personal / Winter 2018 / A3 Texture Sheet / Scale Drawing

### HYPER BAMBOO

Personal / Winter 2018 / A3 Texture Sheet / Free Hand

### SHOPPING MALL

Personal / Summer 2019 / A3 Sheet / Free Hand / Conceptual Sketch for an Actual Project