

ARCHITECTURE PORTFOLIO



*VEERAVALLI
LOCHANI
PUSHPA*

LOCHANI PUSHPA V


BIM ARCHITECT

ARCHITECT



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SOFTWARE SKILLS

- AutoCAD
- Revit
- 3dsMax
- Navisworks
- Twinmotion
- V-Ray
- Dynamo
- Rhino 3D
- Sketchup
- Lumion
- Photoshop
- InDesign
- Illustrator
- MS Office

As a passionate fresher in the AEC industry, I'm eager to fuse my love for design and technology. With a solid educational foundation in architecture and hands-on BIM software experience, I'm excited for a dynamic career. Collaborative projects have honed my teamwork skills, and my thirst for knowledge drives me to innovate. As I embark on my professional career, I am enthusiastic about exploring new challenges, embracing growth opportunities, and making a positive impact in the realm of architectural technology and design.

EDUCATION

- **BACHELOR OF ARCHITECTURE**
Lovely Professional University, Punjab, India
2018 - 2023
- **CBSE CLASS XII**
BVB, Rajahmundry
2016 - 2018
- **CBSE CLASS X**
BVB, Tadepalligudem
2015-2016

EXPERIENCE

- **ARCHITECT INTERN**
Thirdeye Pvt Ltd, Hyderabad
July 2022 - Nov 2022
- **FREELANCE 3D VISUALIZER**
Remote work
October 2021 - March 2023
- **AI IMAGE GENERATION, TYPESETTING
AND BOOK COVER DESIGNER**
Remote work
October 2022 - April 2023

COURSES

- **NOVATR (Oneistox) BIM & REVIT PROFESSIONAL COURSE**
Part time, online study on BIM software and industry workflows
Nov 2022 - June 2023
- **3DS MAX + V-RAY: 3DS MAX PRO - UDEMY**
3Ds Max and V-Ray for creating 3D architectural imagery
Jan 2021 - Mar 2021

CERTIFICATIONS

- **REGISTERED AS AN ARCHITECT WITH COUNCIL OF ARCHITECTURE, GOVERNMENT OF INDIA**
Registration No: CA/2023/163263
Issued on: 22nd September 2023
- **NOVATR (Oneistox) BIM PROFESSIONAL COURSE COMPLETION CERTIFICATE**
<https://www.novatr.com/profile?id=3482>
Issued on: 15th June 2023
- **AUTODESK AUTHORIZED TRAINING CENTER COURSE FOR REVIT 2022**
Certificate No. AP702990097431435243796
Course date: 11th June 2023
- **AUTODESK AUTHORIZED TRAINING CENTER COURSE FOR NAVISWORKS MANAGE 2022**
Certificate No. AP702990097432345243796
Course date: 11th June 2023
- **INTERNSHALA AUTOCAD TRAINING CERTIFICATE (TOP PERFORMER)**
https://trainings.internshala.com/verify_certificate?certificate_number=08D17E72-B65B-5504-71C6-00F9E93A2B51
Issued on: 17th April 2021

SKILLS

- Proficient in creating innovative and functional architectural designs using industry-standard software.
- Capable of optimizing space utilization and creating efficient floor plans to meet client requirements.
- Strong analytical and problem-solving skills, with the ability to address design challenges based on project goals.
- Effective communication and collaboration within multidisciplinary teams.
- Ability to create high-quality 3D visualizations and renderings.
- A creative and innovative mindset, dedicated to delivering unique and visually appealing architectural solutions.
- Strong organizational and time management abilities.
- Data optimisation and organisation (Information Management)
- Presentation and documentation
- Quick learner with the ability to adapt to new technologies and design trends in the ever-evolving field of architecture.
- Proficient in BIM software such as Revit, Navisworks, Dynamo and AutoCAD.
- Strong understanding of BIM methodologies, standards, and best practices.
- Knowledge of clash detection, coordination, and model management.

Interested in seeing more of my work and how I've applied my skills? Explore my comprehensive portfolio at <https://veeravalli.me>. There, you'll find a detailed showcase of my projects, designs, and expertise. I look forward to sharing my passion for architecture and BIM with you.

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COLLABORATIVE PROJECT
Tools used- AutoCAD, Revit, Navisworks, Twinmotion

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KADMAT ISLAND RESORT
B.ARCH THESIS DESIGN

INDIVIDUAL PROJECT
Tools used- AutoCAD, Revit, Twinmotion, Illustrator, Photoshop

03



IIM CAMPUS

GROUP PROJECT
Tools used- Autocad, Rhino, 3dsMax, V-Ray,,Photoshop

04



THE HAVEN

INDIVIDUAL PROJECT
Tools used- AutoCAD, Revit, Navisworks, Twinmotion

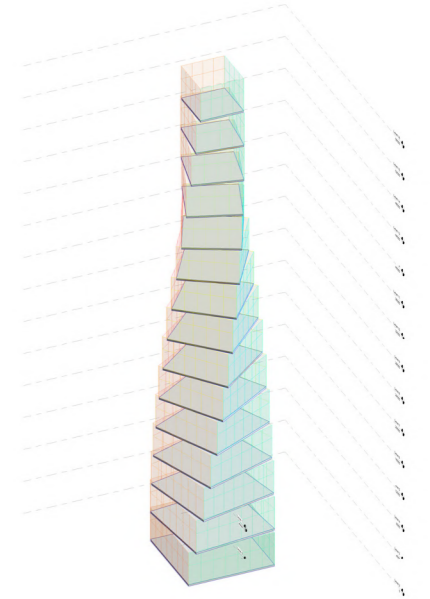
05



PASTEL ADOBE

INDIVIDUAL PROJECT
Tools used- Autocad, Rhino, 3dsMax, V-Ray

06



ENVIRONMENTAL ANALYSIS -
DYNAMO

INDIVIDUAL PROJECT
Tools used- Revit, Dynamo

07

3D VISUALISATION

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3D MODELLING

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DIGITAL ILLUSTRATIONS



01

ONEISTOX CAPSTONE PROJECT

PROJECT DESCRIPTION

PROJECT NAME

ENZYME - ONEISTOX Capstone Project

PROJECT ADDRESS

Queens Road Central, Central District
Sheung Wan,
Hong Kong
N 22° 17' 5.40"
E 114° 9' 12.12"

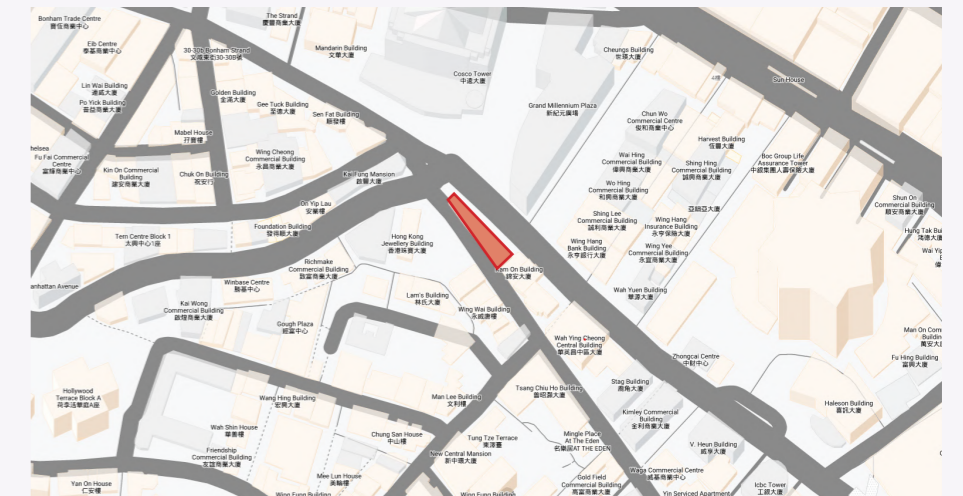
PROJECT BASE POINT

Est 833845456
North 816216419
Elevation ±00.00

PROJECT BRIEF

An existing building built in the 70s. However, the building doesn't maximize the currently allowed GFA or gross floor area for the plot. So to take advantage of the prime location that exists in the underutilized GFA, the goal is to study the possibility of another building volume that can give a better return of investment while also making it a landmark in the critical urban point.

PROJECT LOCATION



BUILDING TYPE

Mixed-use high rise with some office and service apartments.

SITE AREA

203.7 sqm

CURRENT UTILISE GFA

1430.7 sqm

MAX. SITE OCCUPATION

162.7 sqm

HEIGHT REQUIREMENT

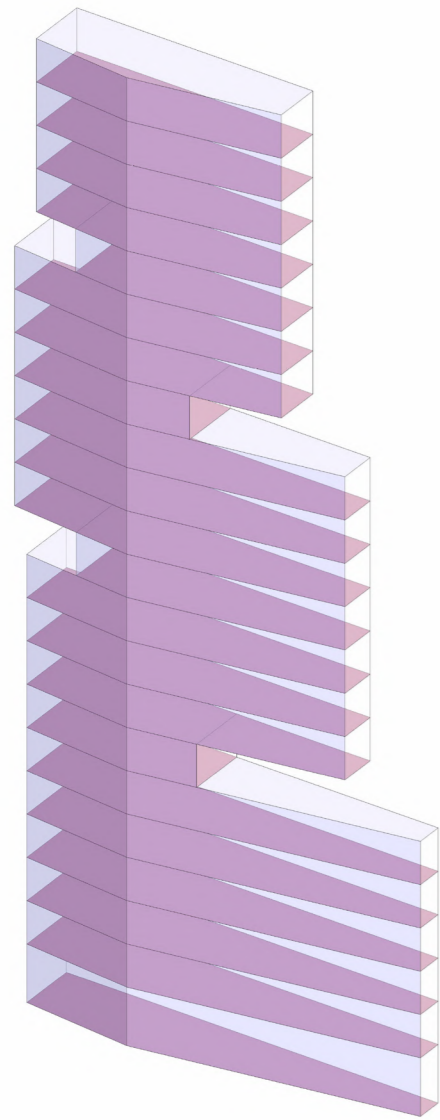
21 Storeys

FAR

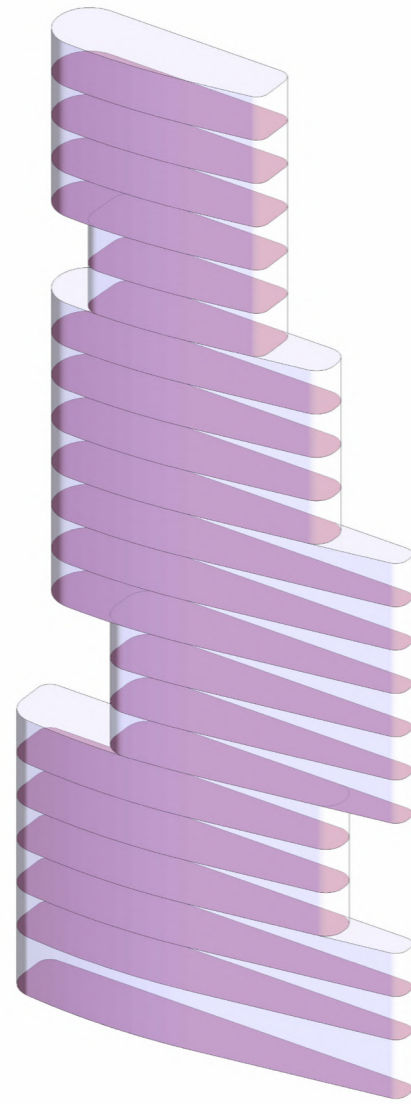
13.8

ADDITIONAL THINGS TO CONSIDER

1. Possibility to create a series of setbacks allowed as per the local regulations that can help gain the addition of extra storeys.
2. Add sky gardens and public spaces which will allow the volume to grow higher recovering GFA, increasing the final number of storeys to 21 from 17.



1 AXONOMETRIC VIEW OP1



2 AXONOMETRIC VIEW OP2

The central theme is to bring the rejuvenating effects of nature to users in a space-efficient manner, encouraging a holistic lifestyle within the urban milieu. This is achieved through the following ways:

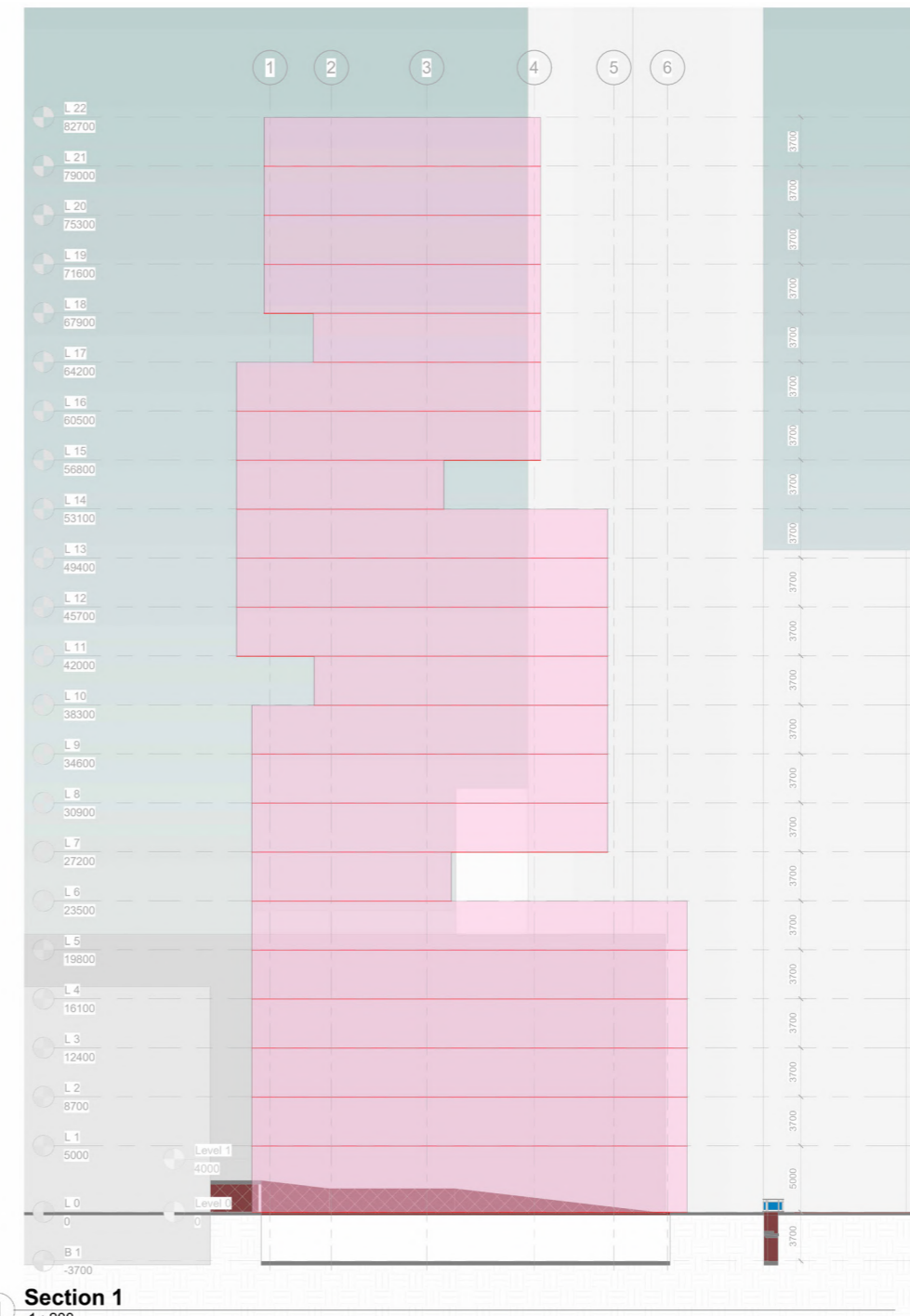
- **SKY GARDENS:** Incorporation of lush terrace gardens at regular intervals. The concept here is to infuse greenery into urban living, offering users a slice of tranquility amidst the bustling city.
- **UNIFORM PLANNING:** While the structure boasts multiple stories, it takes pride in its uniformity. This design approach enhances efficiency, cost-effectiveness, and ease of construction. Each floor is a reflection of the others, creating a sense of familiarity and simplicity. This consistency allows users to adapt to their surroundings easily, as well as facilitates convenient maintenance and management.
- **PANORAMIC VIEWS:** The spaces offers spectacular panoramic views of the city. The uniformity in floor plans optimizes layouts to maximize the scenic beauty. The terrace gardens act as natural sunshades, providing users with comfortable spaces to enjoy these views.

Mass Floor Schedule OP1	
Level	Floor Area
L 0	152 m ²
L 1	152 m ²
L 2	152 m ²
L 3	152 m ²
L 4	152 m ²
L 5	152 m ²
L 6	85 m ²
L 7	135 m ²
L 8	135 m ²
L 9	135 m ²
L 10	110 m ²

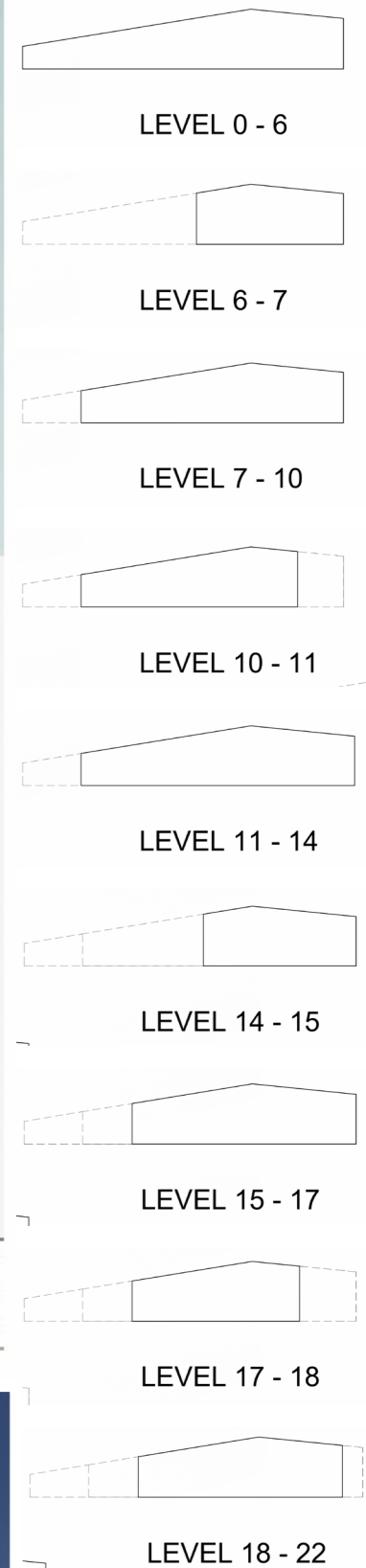
Mass Floor Schedule OP1	
Level	Floor Area
L 11	141 m ²
L 12	141 m ²
L 13	141 m ²
L 14	88 m ²
L 15	122 m ²
L 16	122 m ²
L 17	91 m ²
L 18	111 m ²
L 19	111 m ²
L 20	111 m ²
L 21	111 m ²
22	2800 m ²

Mass Floor Schedule OP2	
Level	Floor Area
L 0	148 m ²
L 1	148 m ²
L 2	148 m ²
L 3	133 m ²
L 4	133 m ²
L 5	133 m ²
L 6	100 m ²
L 7	100 m ²
L 8	100 m ²
L 9	130 m ²
L 10	130 m ²

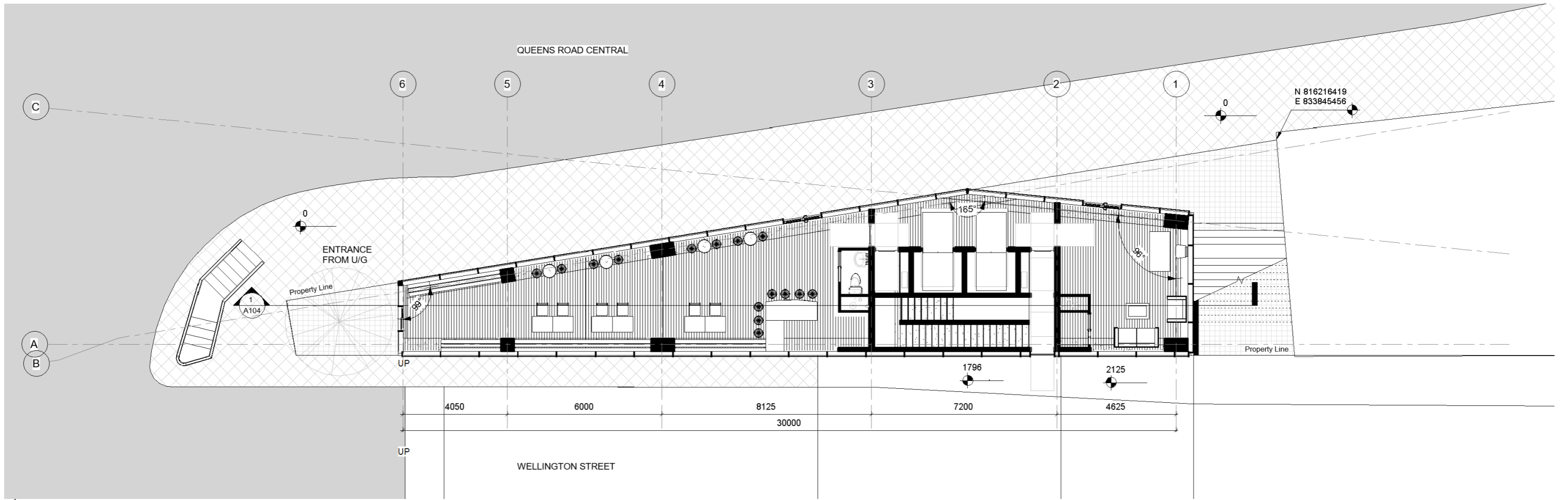
Mass Floor Schedule OP2	
Level	Floor Area
L 11	130 m ²
L 12	113 m ²
L 13	113 m ²
L 14	113 m ²
L 15	113 m ²
L 16	75 m ²
L 17	75 m ²
L 18	95 m ²
L 19	95 m ²
L 20	95 m ²
L 21	95 m ²
22	2517 m ²



1 Section 1
-4+200



CONCEPTUAL VIEW
PRIMARY MASSING OPTION



SITE PLAN

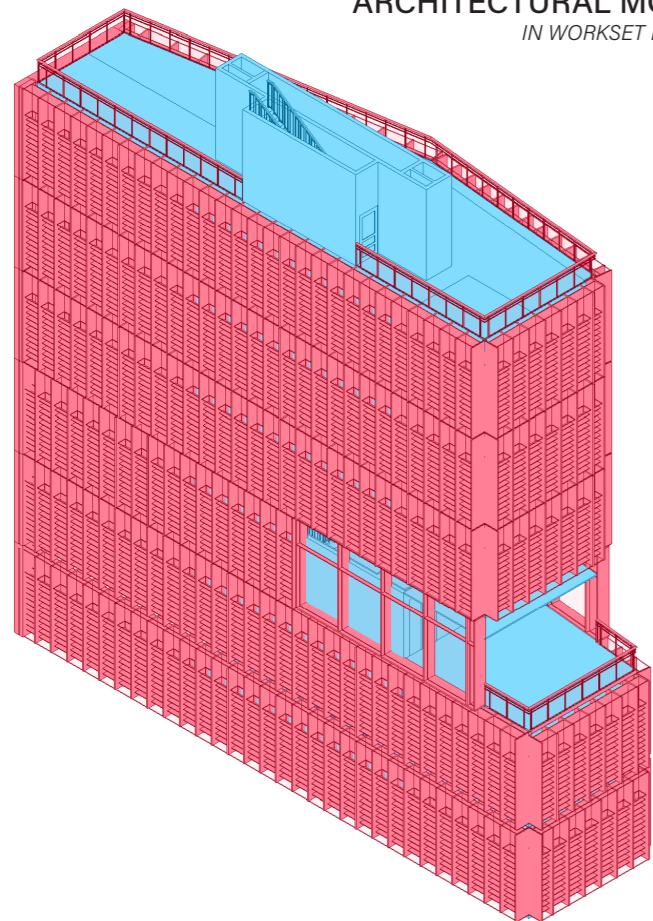
ZONE 3 COORDINATION

ARCHITECTURAL MODEL
IN WORKSET DISPLAY

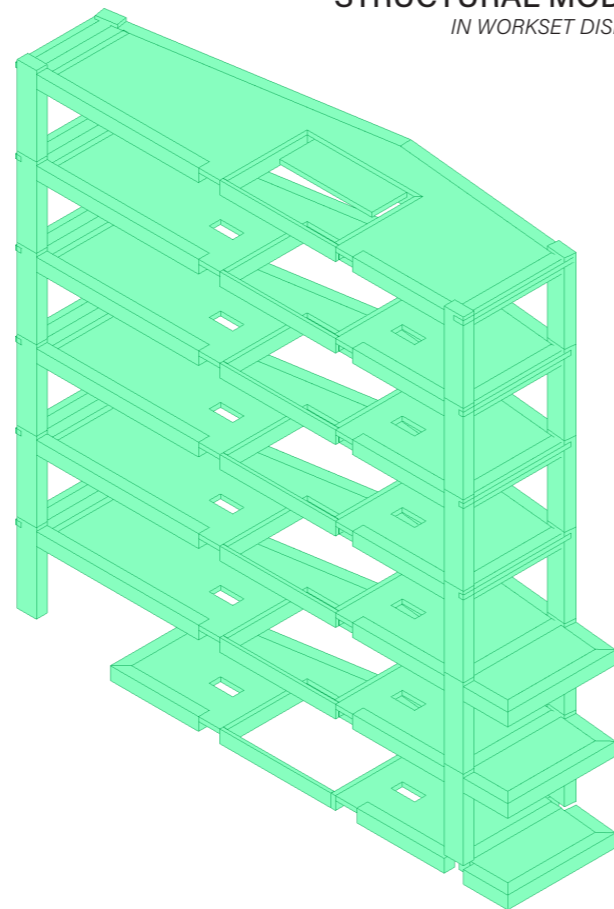
STRUCTURAL MODEL
IN WORKSET DISPLAY

MEP MODEL
IN WORKSET DISPLAY

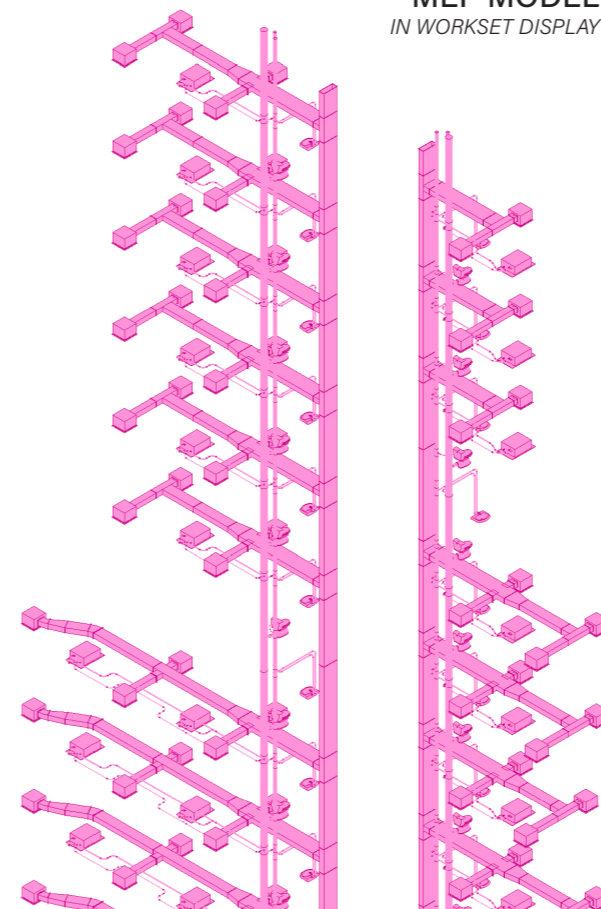
COORDINATION MODEL
IN WORKSET DISPLAY



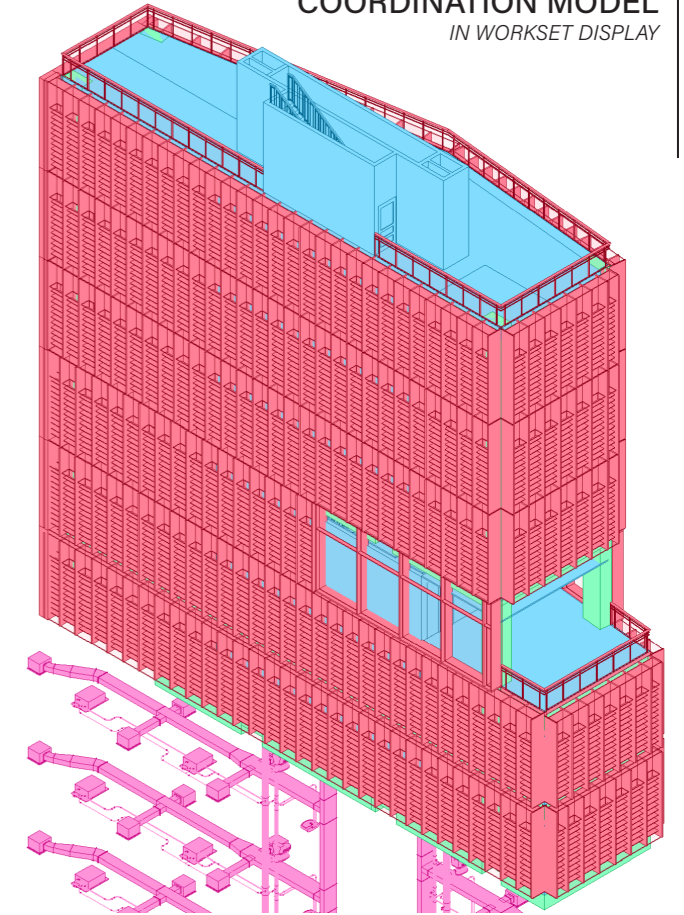
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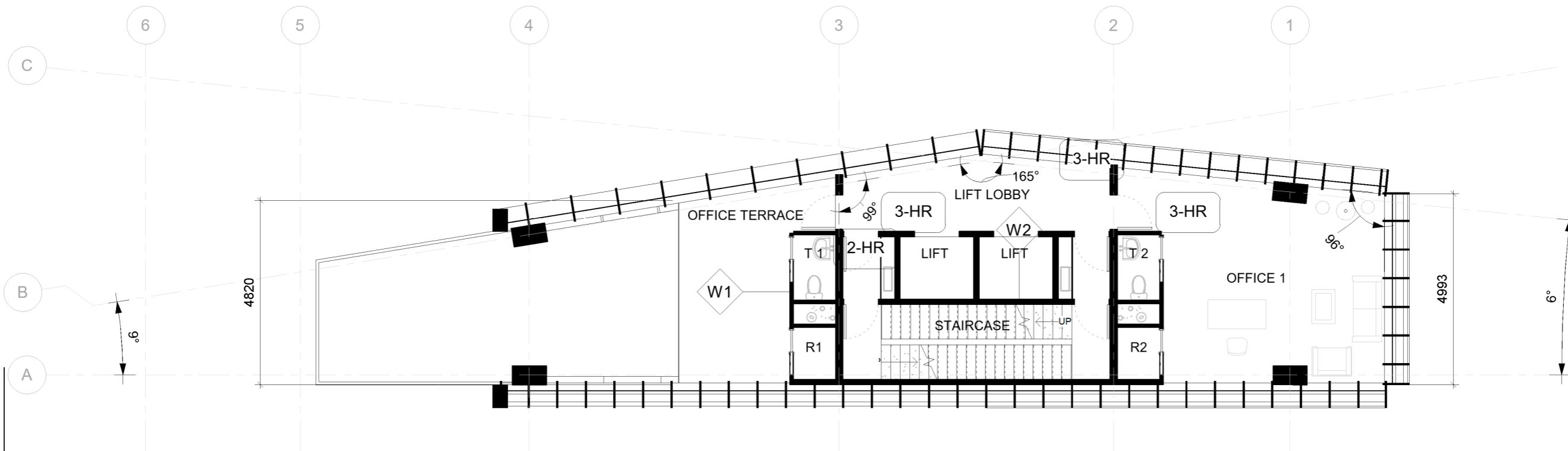


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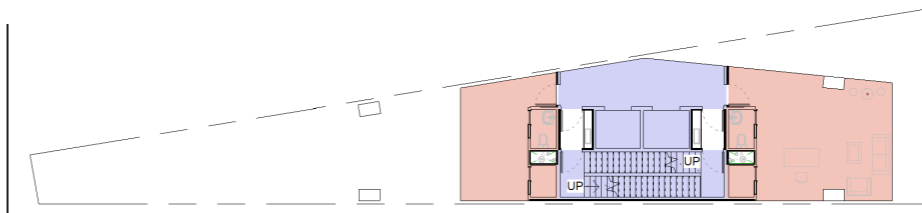




ATYPICAL FLOOR PLAN

Room Schedule L15		
Name	Level	Area
LIFT	L 16	3 m ²
T 2	L 16	2 m ²
R2	L 16	1 m ²
T 1	L 16	2 m ²
R1	L 16	1 m ²
OFFICE 1	L 16	30 m ²
OFFICE TERRACE	L 16	5 m ²
LIFT LOBBY	L 16	13 m ²
STAIRCASE	L 16	14 m ²
OFFICE 2	L 16	32 m ²
LIFT	L 16	3 m ²

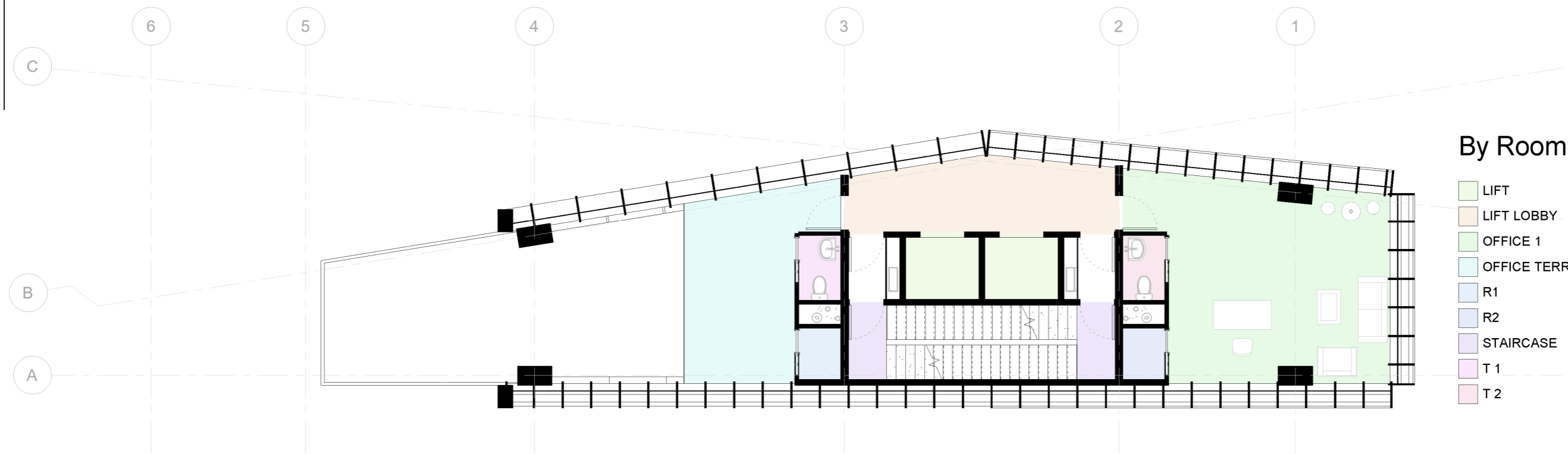
ATYPICAL AREA PLAN



ATYPICAL AREA SCHEME

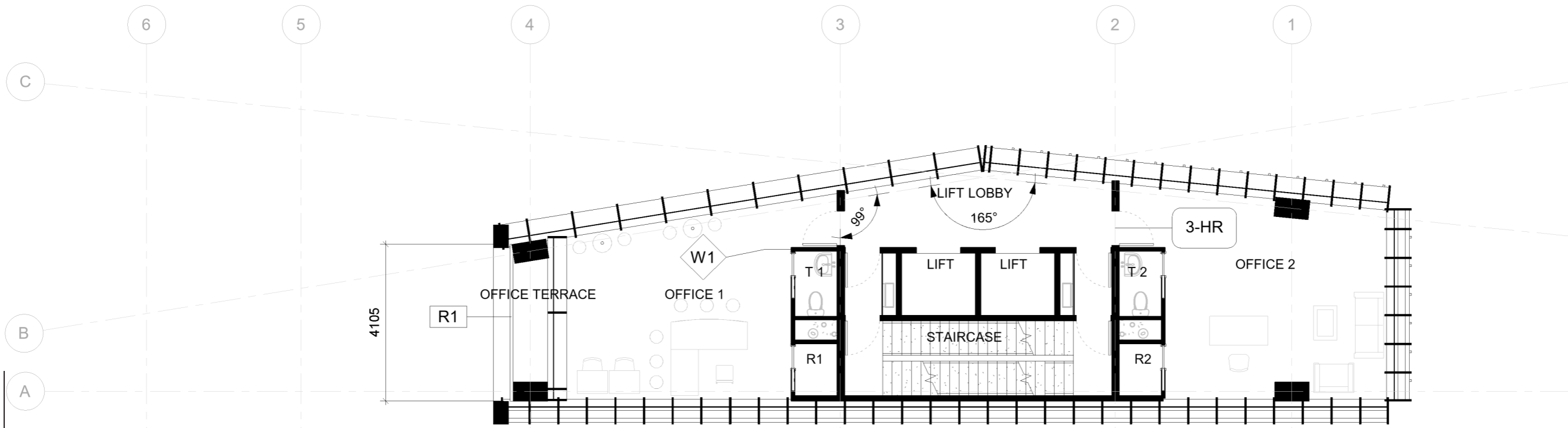
By Department Legend

- NON SELLABLE
- SELLABLE



By Room Name Legend

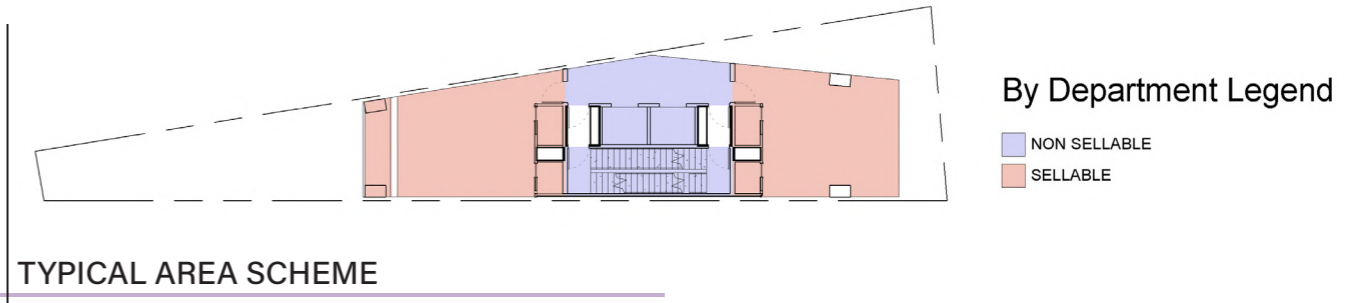
- LIFT
- LIFT LOBBY
- OFFICE 1
- OFFICE TERRACE
- R1
- R2
- STAIRCASE
- T 1
- T 2



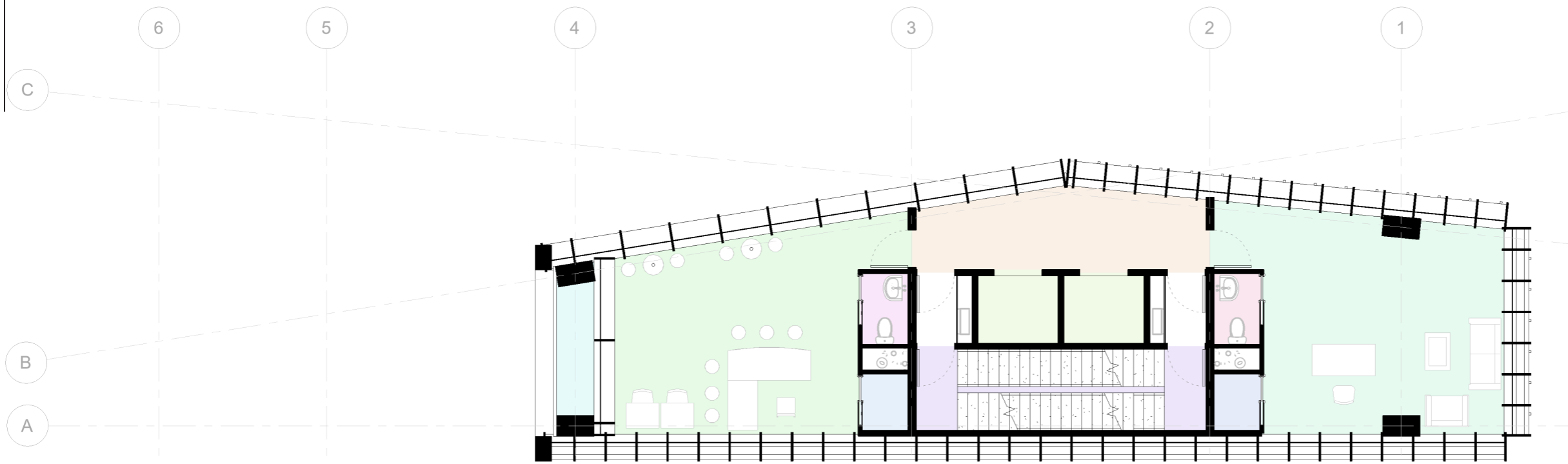
TYPICAL FLOOR PLAN

Room Schedule L16		
Name	Level	Area
LIFT	L 16	3 m ²
T 2	L 16	2 m ²
R2	L 16	1 m ²
T 1	L 16	2 m ²
R1	L 16	1 m ²
OFFICE 1	L 16	30 m ²
OFFICE TERRACE	L 16	5 m ²
LIFT LOBBY	L 16	13 m ²
STAIRCASE	L 16	14 m ²
OFFICE 2	L 16	32 m ²
LIFT	L 16	3 m ²

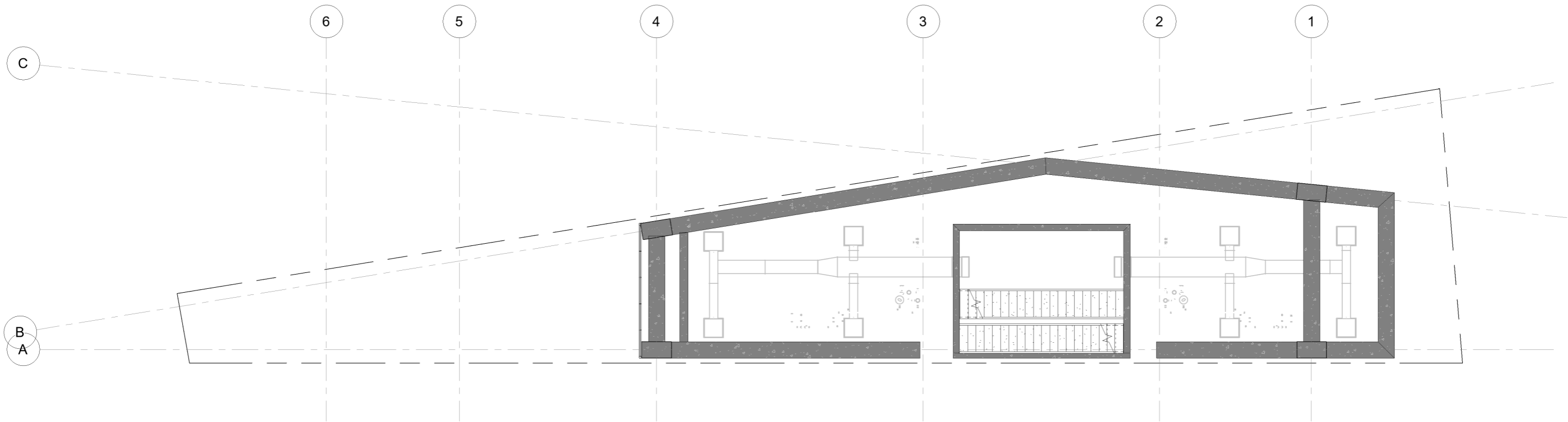
TYPICAL AREA PLAN



TYPICAL AREA SCHEME



- By Room Name Legend**
- LIFT
 - LIFT LOBBY
 - OFFICE 1
 - OFFICE 2
 - OFFICE TERRACE
 - R1
 - R2
 - STAIRCASE
 - T 1
 - T 2



TYPICAL STRUCTURAL FRAMING & MEP PLAN

Structural Framing Schedule L16		
Reference Level	Type	Count
L 16	ONX_VVN_STR_B1-500X600MM	9
L 16	ONX_VVN_STR_B3-250X600MM	1
L 16	ONX_VVN_STR_B4_200X600MM	3
L 16	ONX_VVN_STR_B6_150X600MM	1

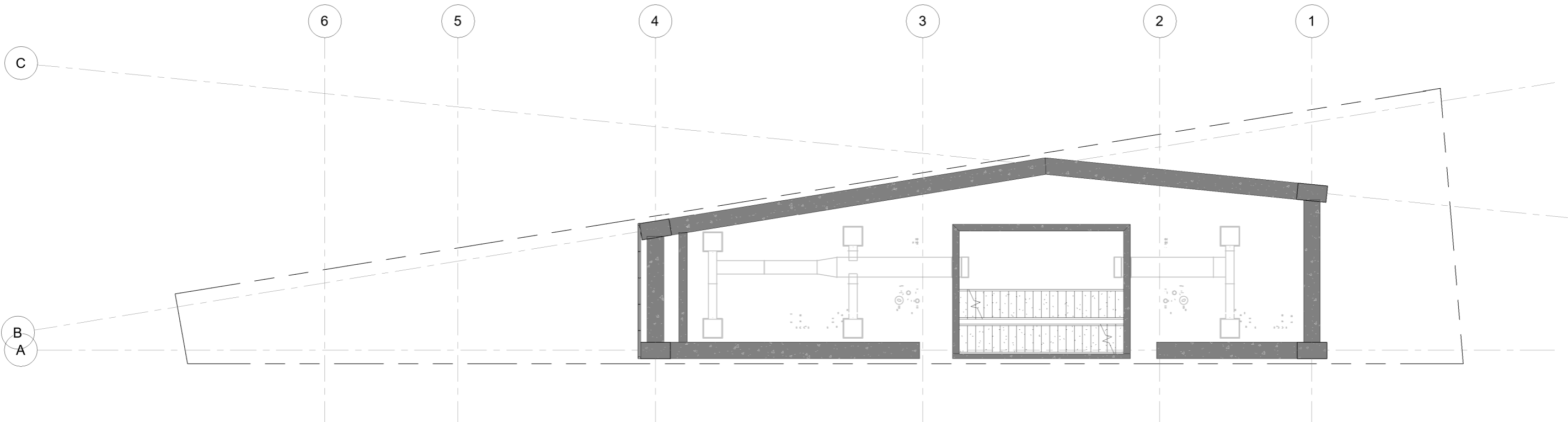
STRUCTURAL FLOOR SCHEDULE L16			
Type	Default Thickness	Area	Level
ONX_VVN_ARC_FLR_SS1_200MM	200	79 m ²	L 16

Structural Column Schedule L16		
Base Level	Type	Count
L 16	ONX_VVN_STR_C1_900x500	4

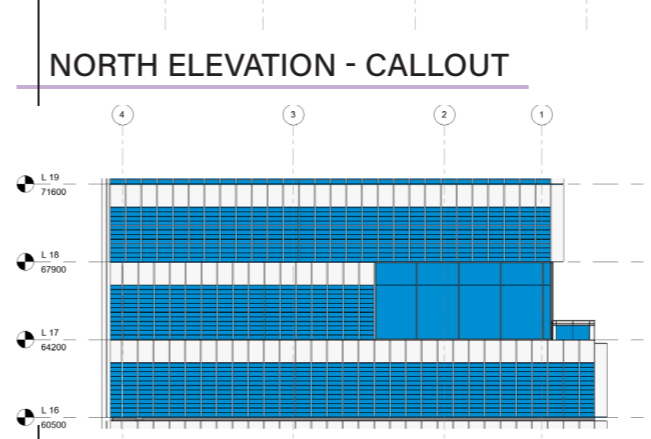
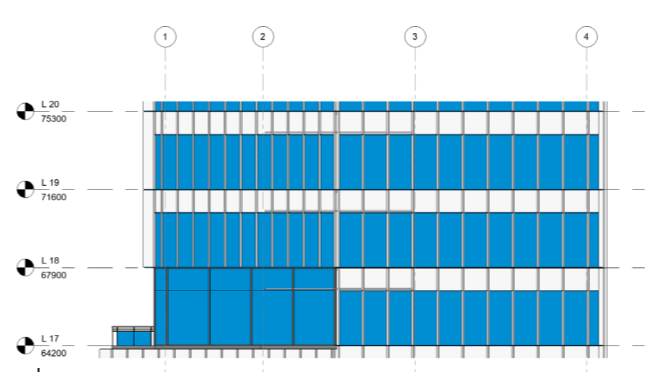
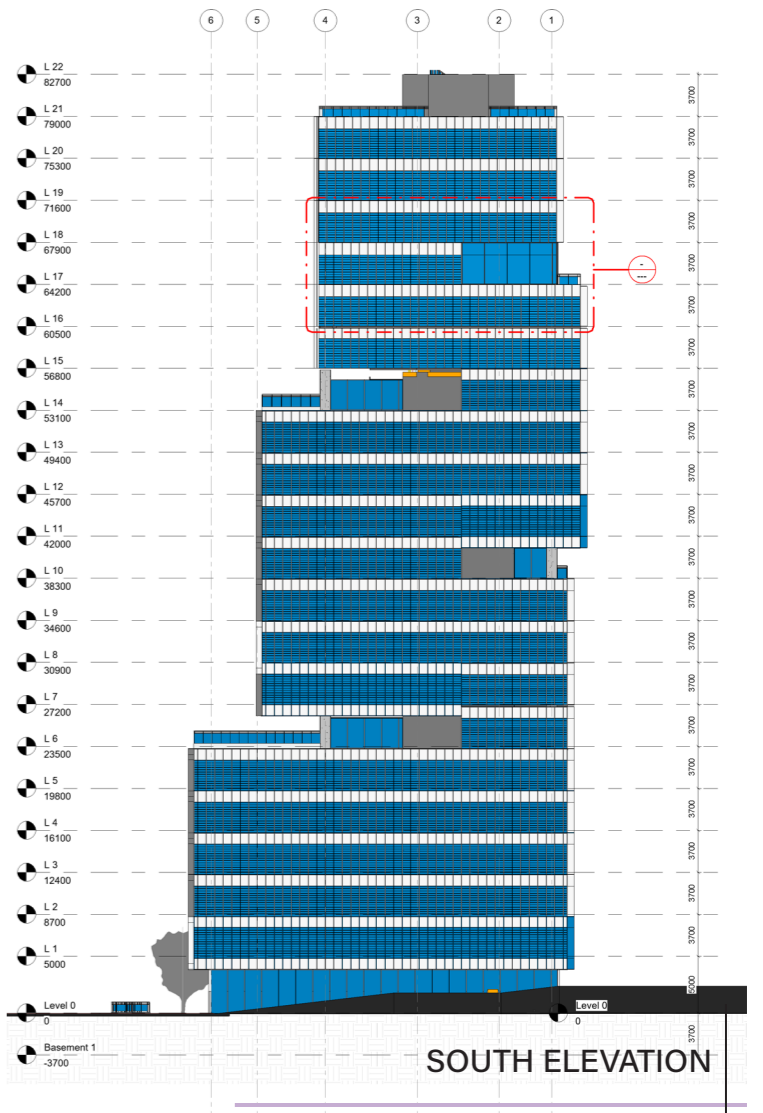
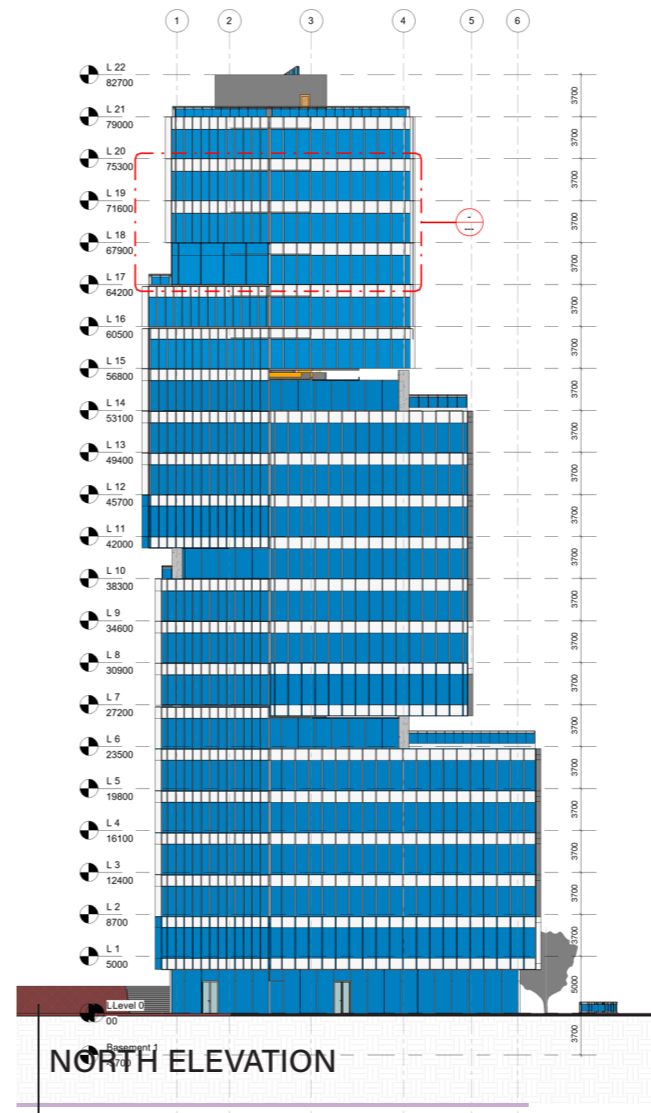
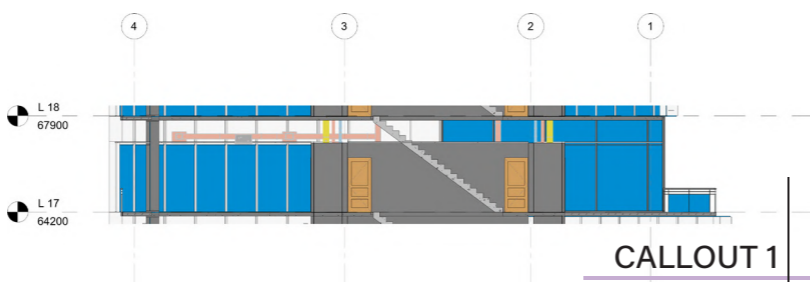
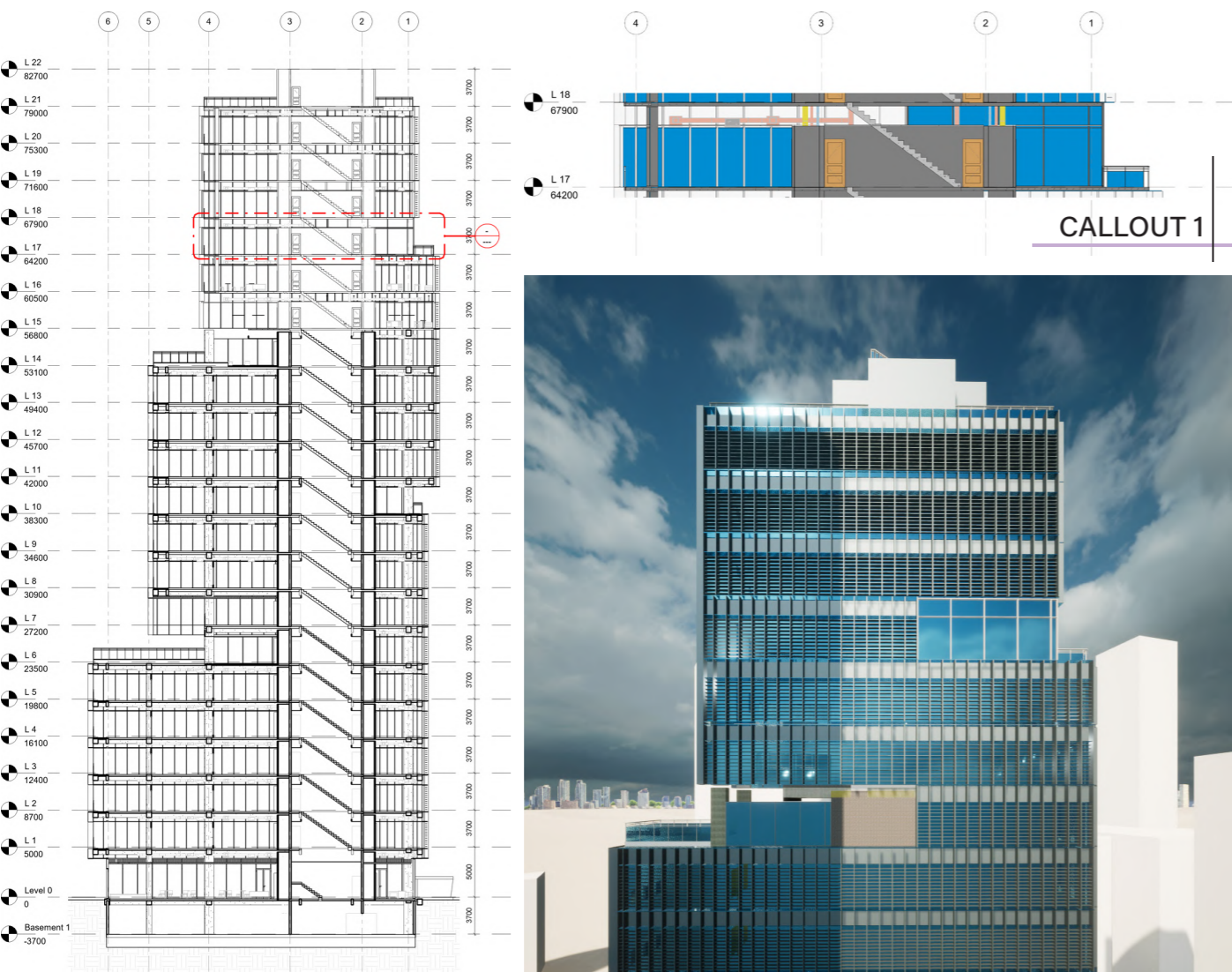
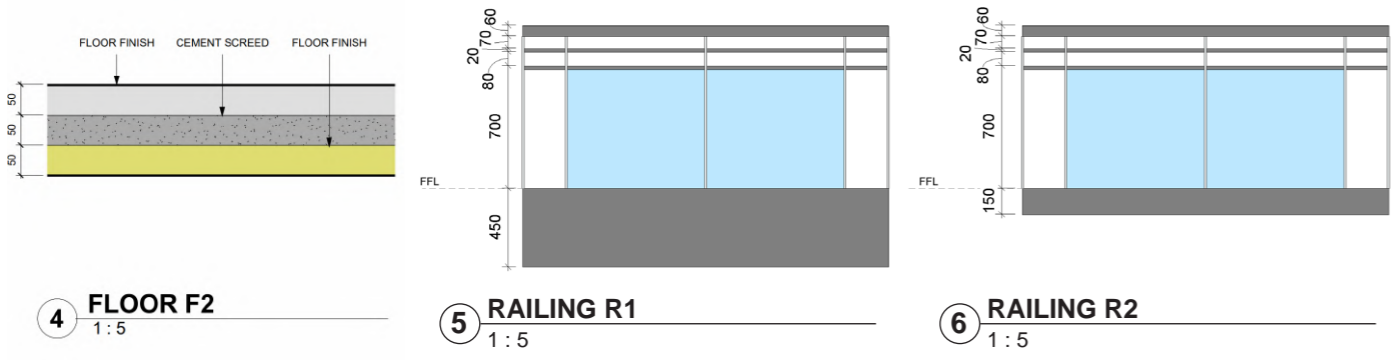
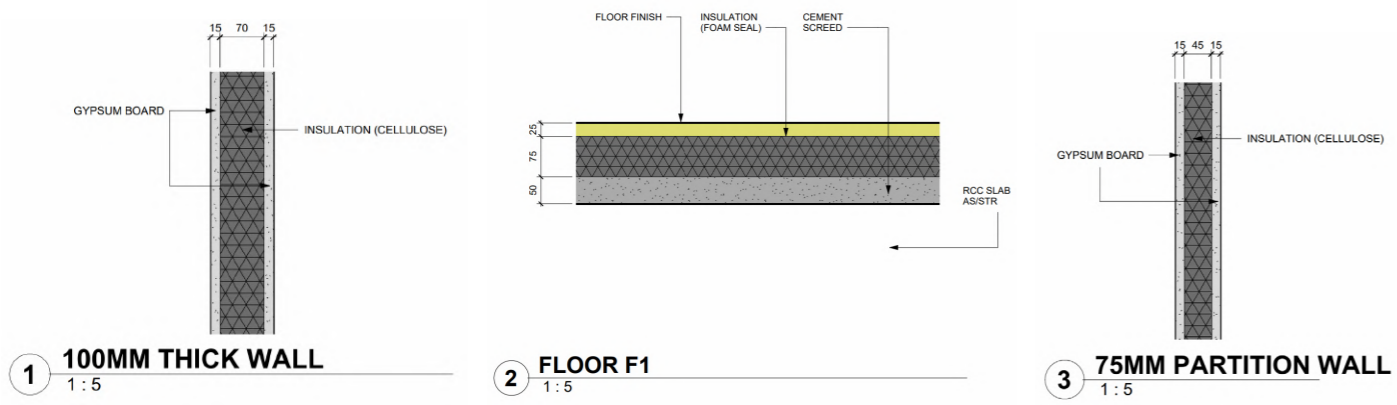
Structural Framing Schedule L19		
Reference Level	Type	Count
L 19	ONX_VVN_STR_B1-500X600MM	6
L 19	ONX_VVN_STR_B3-250X600MM	1
L 19	ONX_VVN_STR_B4_200X600MM	3
L 19	ONX_VVN_STR_B6_150X600MM	1

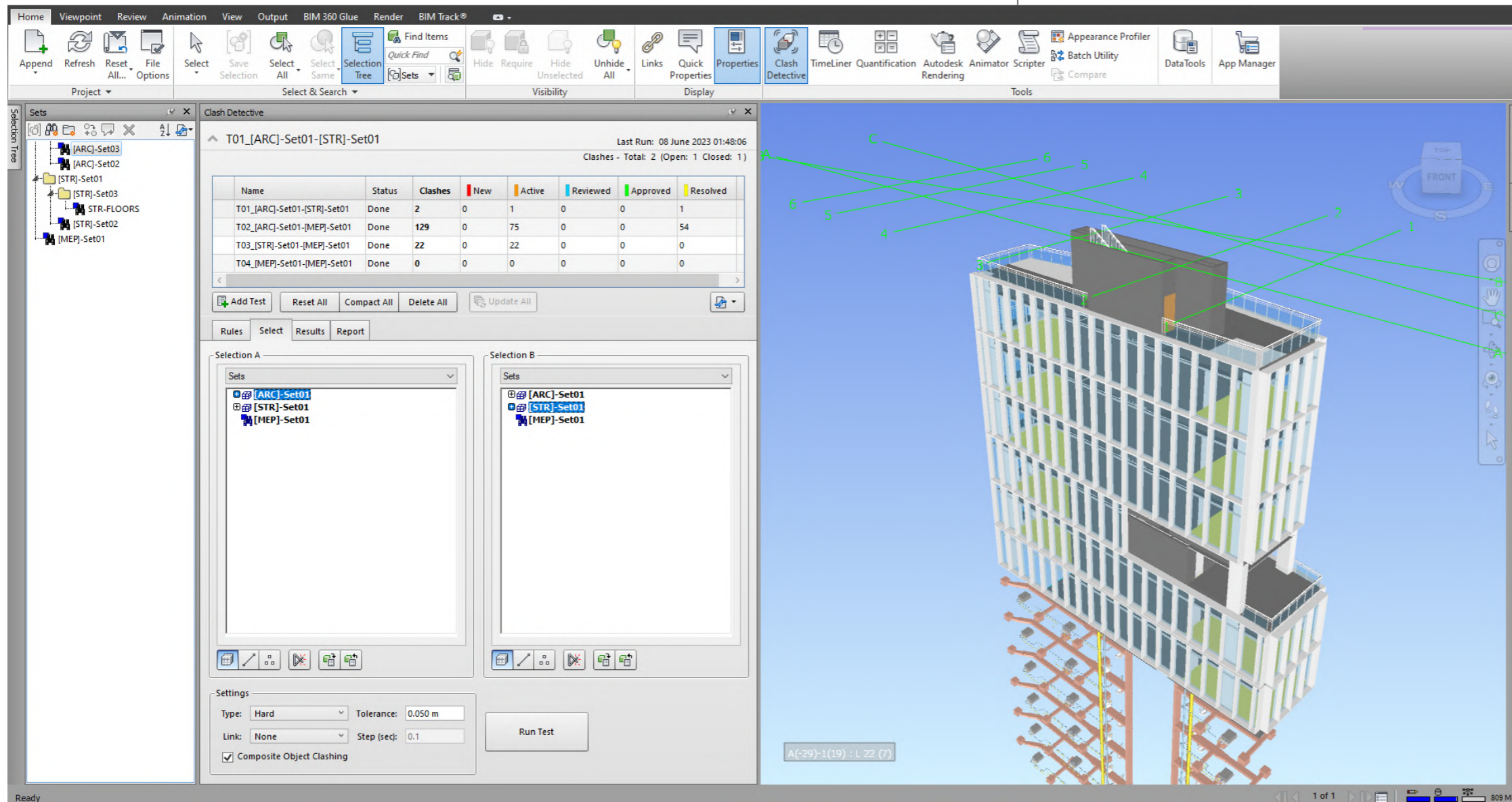
STRUCTURAL FLOOR SCHEDULE L19			
Type	Default Thickness	Area	Level
ONX_VVN_ARC_FLR_SS1_200MM	200	67 m ²	L 19

Structural Column Schedule L19		
Base Level	Type	Count
L 19	ONX_VVN_STR_C1_900x500	4



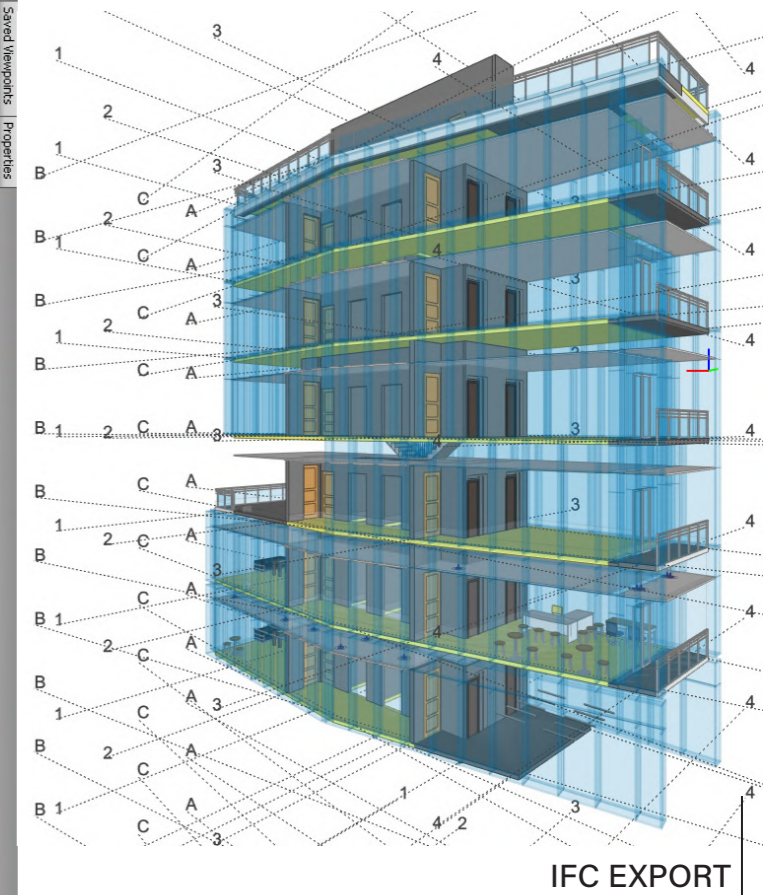
ATYPICAL STRUCTURAL FRAMING & MEP PLAN





CLASH DETECTION BASED ON SEARCH SETS

NAVISWORKS CLASH TESTS



IFC EXPORT

AUTODESK® NAVISWORKS® Clash Report

T01_[ARC]-Set01-[STR]-Set01	Tolerance	Clashes	New	Active	Reviewed	Approved	Resolved	Type	Status
	0.050m	262	0	143	0	0	119	Hard	OK

Image	Clash Name	Status	Grid Location	Description	Date Found	Clash Point	Item 1		Item 2	
							Item ID	Layer	Item ID	Layer
	Clash12	Active	A-1 : L 20	Hard	2023/6/7 19:29	x:833837.056, y:816213.490, z:78.540	Element ID: 758869	L 21	Element ID: 709811	L 20
	Clash19	Active	A-3 : L 18	Hard	2023/6/7 19:29	x:833827.680, y:816221.871, z:70.867	Element ID: 752622	L 18	Element ID: 713310	L 19
	Clash14	Active	A-2 : L 18	Hard	2023/6/7 19:29	x:833834.869, y:816215.508, z:71.450	Element ID: 752627	L 18	Element ID: 713281	L 19
	Clash15	Active	B-3 : L 16	Hard	2023/6/7 19:29	x:833831.641, y:816224.385, z:64.050	Element ID: 779163	L 16	Element ID: 714623	L 17
	Clash16	Active	B-3 : L 16	Hard	2023/6/7 19:29	x:833831.641, y:816224.385, z:64.050	Element ID: 749354	L 16	Element ID: 714623	L 17

NAVISWORKS CLASH DETECTION MATRIX

NAVISWORKS CLASH DETECTION MATRIX						Search Sets		
		ARC	STR	MEP	SIT	Discipline	Name of the set	Description
	WALL & FLOOR	N/A	N/A	N/A	N/A	ARC-All	[ARC]-Set01	Architectural walls (interior, exterior) and floors
	STRUCT.	T01	N/A	N/A	N/A	ARC-Walls	[ARC]-Set02	Architectural walls (interior, exterior)
ARC	WALL & FLOOR	N/A	N/A	N/A	N/A	ARC-Floors	[ARC]-Set03	Architectural Floors
STR	STRUCT.	T01	N/A	N/A	N/A	STR-All	[STR]-Set01	Structural columns and structural framing (beams) and other elements
MEP	MEP	T02	T03	T04	N/A	STR-Primary Str.	[STR]-Set02	Structural columns and structural framing (beams)
SIT	SITE	N/A	N/A	N/A	N/A	STR-Secondary Str.	[STR]-Set03	Other (Structural wall, floors, stair, ramps etc.)
	N/A					MEP-All	[MEP]-Set01	MEP elements
	Low Priority							
	High Priority							
						SIT-All		

Clash Tests

Test No	Selection A	Selection B	Test Name	Priority	Rules	Select		
						Type	Link	Tol.
T01	ARC-All	STR-All	T01_[ARC]-Set01-[STR]-Set01	Low		Hard	None	5 cm
T02	ARC-All	MEP-All	T02_[ARC]-Set01-[MEP]-Set01	Low		Hard	None	5 cm
T03	STR-All	MEP-All	T03_[STR]-Set01-[MEP]-Set01	High		Hard	None	5 cm
T04	MEP-All	MEP-All	T04_[MEP]-Set01-[MEP]-Set01	High		Hard (Conservative)	None	2 cm
NA	SIT-All	SIT-All	NA -	NA		Hard	None	5 cm

PROJECT DESCRIPTION

PROJECT NAME KADMAT ISLAND RESORT (B.Arch Thesis Project)

PROJECT ADDRESS Kadmat Island, Lakshadweep Union Territory

PROJECT AIM To design high-end luxury tourist resorts that offers exceptional guest experience of the place.

PROJECT BRIEF Due to ecological and economic constraints, industrial development opportunities in Lakshadweep are limited. Projected estimates based on rising sea levels suggest a decline in land mass, coconut production, and fishery - key sources of income for the islands. This resort will provide an alternative source of income through tourism, create new employment opportunities but also facilitate the development of diversified coping strategies that are resilient to the adverse impacts of climate change in Kadmat and potentially other islands in Lakshadweep.

TOTAL LAND AREA 5.557 ha

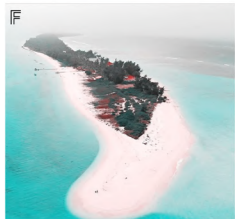
TOTAL LAGOON AREA 6 ha

MAX PERMISSIBLE FAR 1.5

MAX PERMISSIBLE G.C 70 %

SETBACKS 1m on all sides

MAX BUILDING HEIGHT 12.5m (without stilts)
15.5m (with stilts)

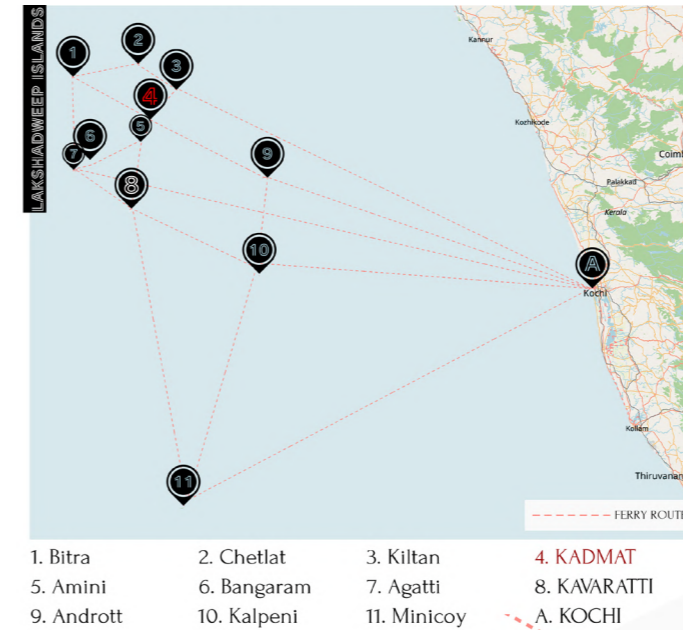


PROPOSED BEDROOMS 100 bedrooms (in water villas & beach villas)

BUILDING TYPE Luxury island resort with services.

ADDITIONAL THINGS TO CONSIDER

1. Promote conservation, and provide economic support for the island and provide a 'high value low volume' experience.
2. Promote the local culture through the design of spaces and create a harmony with the existing environment.

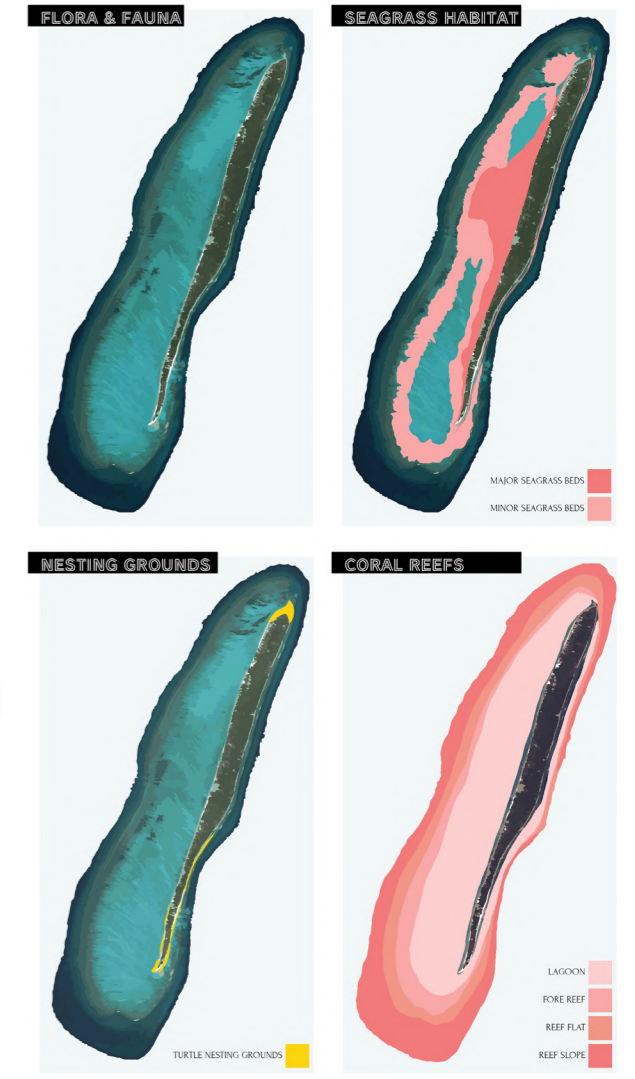


- 1. Bitra
- 2. Chetlat
- 3. Kiltan
- 4. **KADMAT**
- 5. Amini
- 6. Bangaram
- 7. Agatti
- 8. KAVARATTI
- 9. Andrott
- 10. Kalpeni
- 11. Minicoy
- A. KOCHI



SITE ANALYSIS

UNDERSTANDING THE SITE CONTEXT



STRENGTHS

- Exclusive island.
- Secluded and private.
- The site is facing beach on all sides except for one.
- Natural landscape with abundant flora and fauna.
- Calm and refreshing environment in and around the site.
- The island is flat.
- Existing diving center on the site.
- The existing seagrass habitat prevents sea erosion and movement of the beach sediments.

WEAKNESSES

- The site is long and narrow.
- The transport infrastructure makes accessibility very difficult.
- Low carrying capacity of the island.

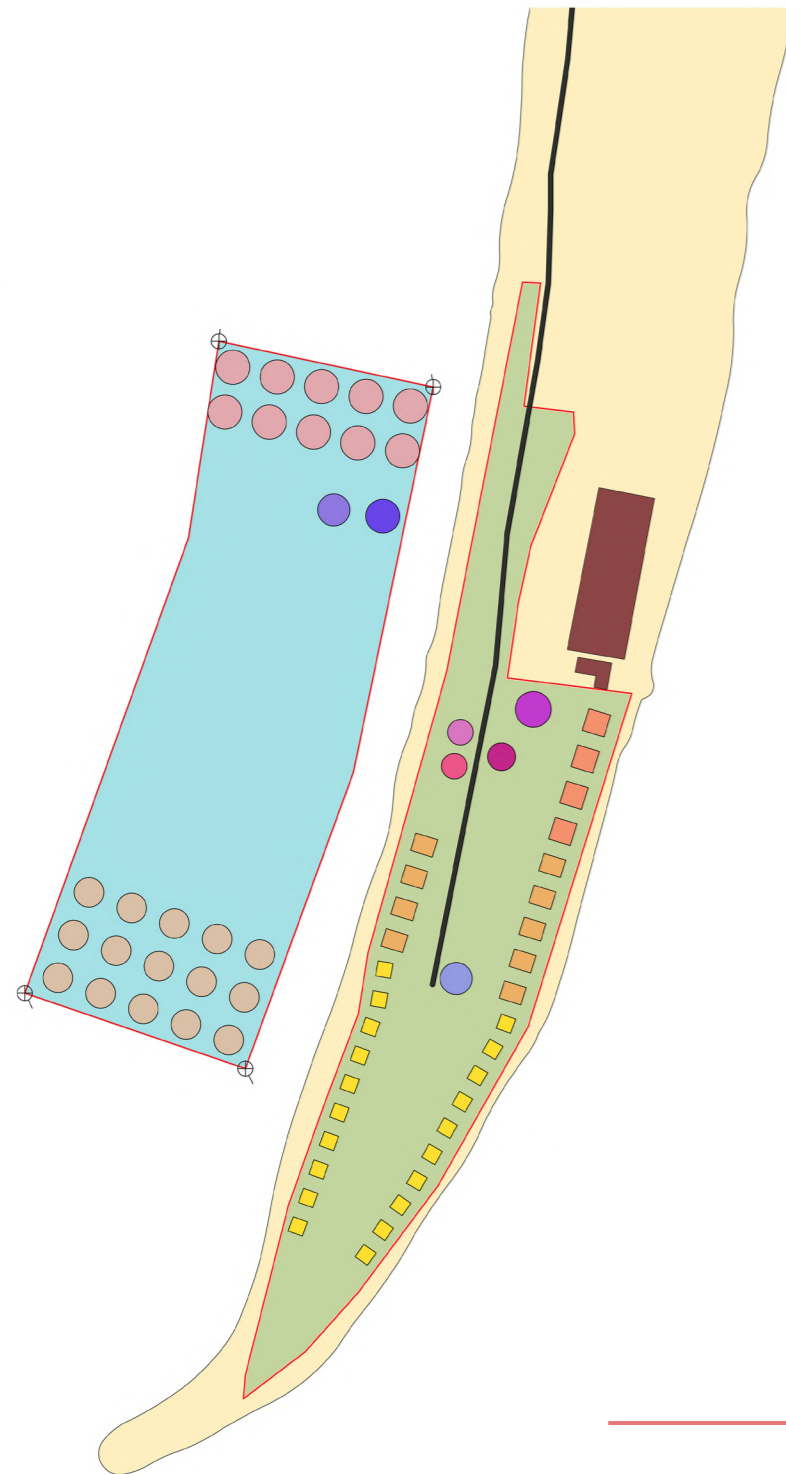
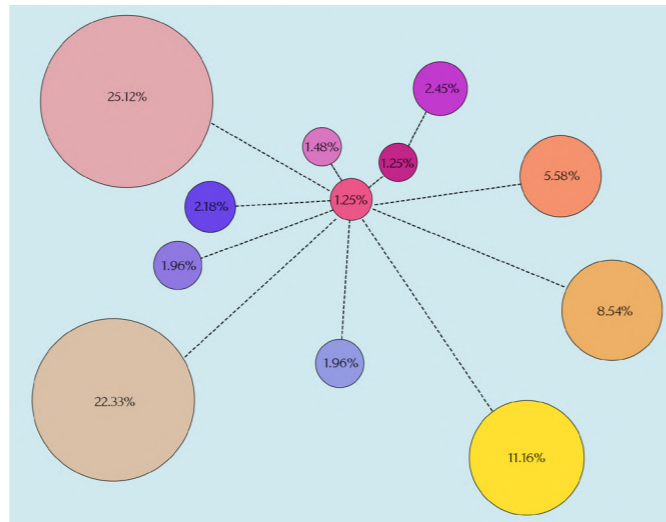
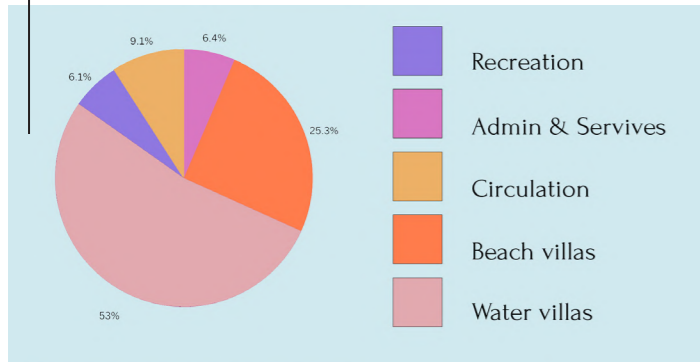
OPPORTUNITIES

- New opportunities for employment and development of tourism sector.
- The existing landscape could be used as a cover for the villas creating an exotic feeling of blending into the nature.
- The beautiful shallow lagoon on the west forms an ideal spot for water sports.
- proposed helipad could be a new mode of transportation and an attraction in the island.
- Floating solar plant, Sea Water Air Conditioning(SWAC) could be an option for renewable energy resources in the island.
- Floating water villas can be a solution to construct in the lagoon without disturbing the coral reefs.

THREATS

- Fragile ecosystem.
- Height from sea level is quite low.
- Possible stress from tourism.
- Climate change.

ACTIVITY ZONING



- ISLAND
- MAIN ROAD
- SITE BOUNDARY
- LANDSCAPE
- PUBLIC AREA
- ADMIN
- SERVICES
- BOH
- RECREATION ON ISLAND
- RECREATION IN LAGOON
- RESTAURANT IN LAGOON
- 3 BEDROOM BEACH VILLA
- 2 BEDROOM BEACH VILLA
- 1 BEDROOM BEACH VILLA
- 2 BEDROOM WATER VILLA
- 1 BEDROOM WATER VILLA

CONCEPTUAL BLOCK ZONING

SITE PLAN



- ISLAND
- WATER VILLA 1
- WATER VILLA 2
- BEACH VILLA 2
- BEACH VILLA 1
- ADMIN
- RESTAURANT
- SPA
- STAFF HOUSING
- SERVICES & OTHERS

WATER VILLA

A concept that focuses on experience that transcends the ordinary and takes you on a journey to reconnect with the world's most awe-inspiring element, the ocean. Here's a glimpse into the vision behind the experience.

A Middle-of-the-Sea Getaway: The circular layout of the resort was inspired by the infinity of the sea, symbolizing unity and infinity. Set far from the bustling world on the solid ground. It takes you to the heart of the sea fostering a unique sense of detachment and serenity.

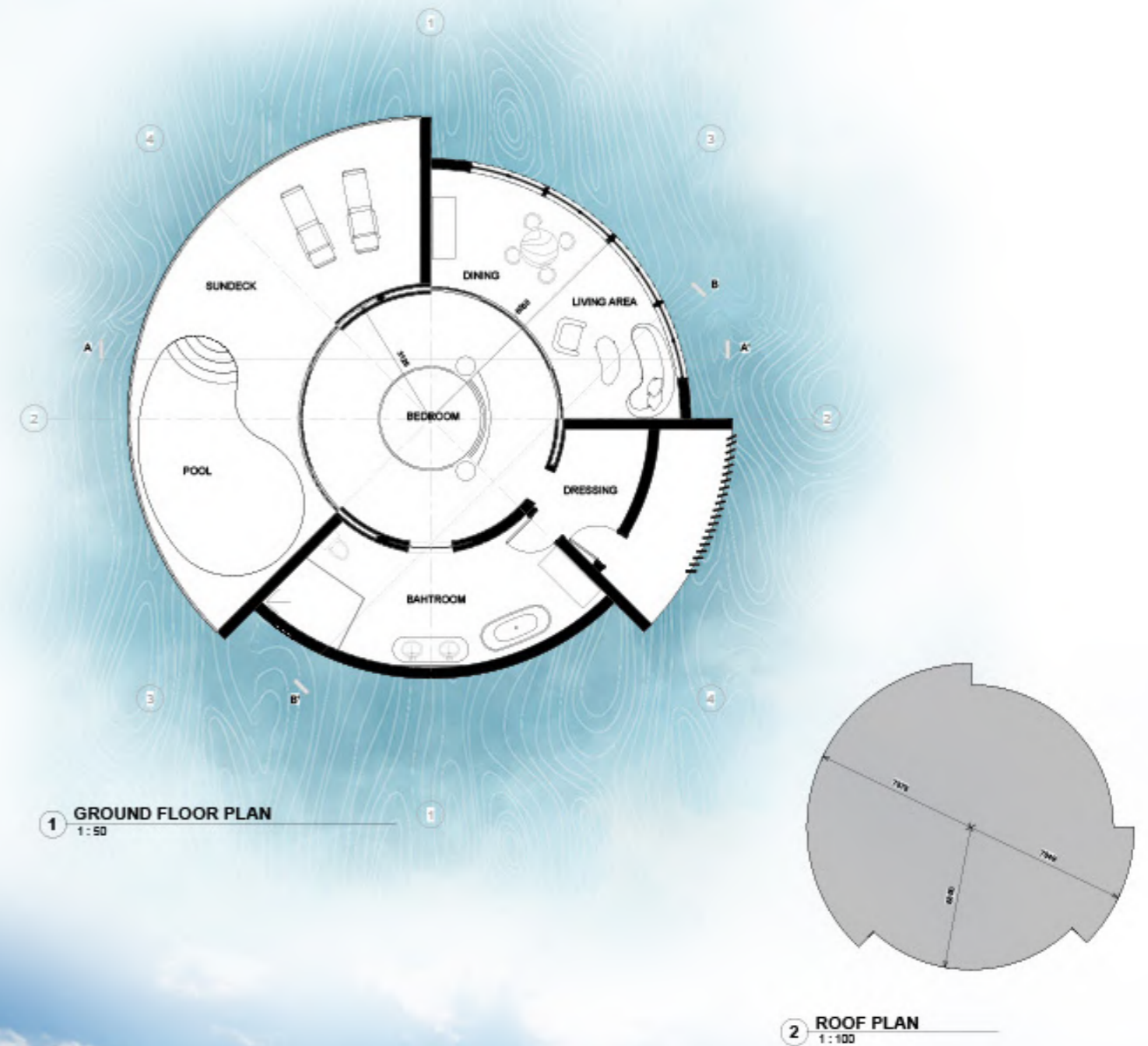
Expansive Open Plan: The heart of the design is the open concept. Floor-to-ceiling glass walls and sliding doors invite the breathtaking sea views indoors, establishing an unbroken connection with the tranquil surroundings with seamless indoor-outdoor flow.

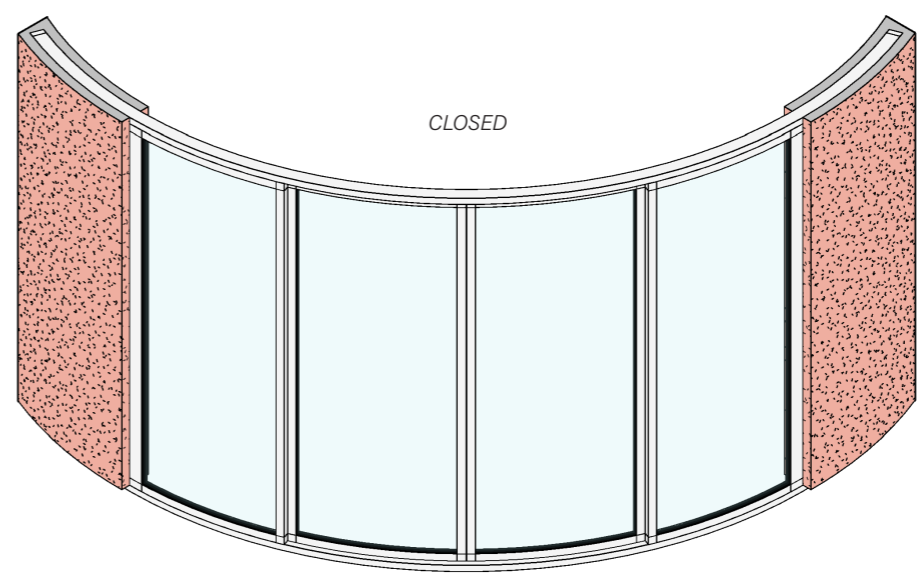
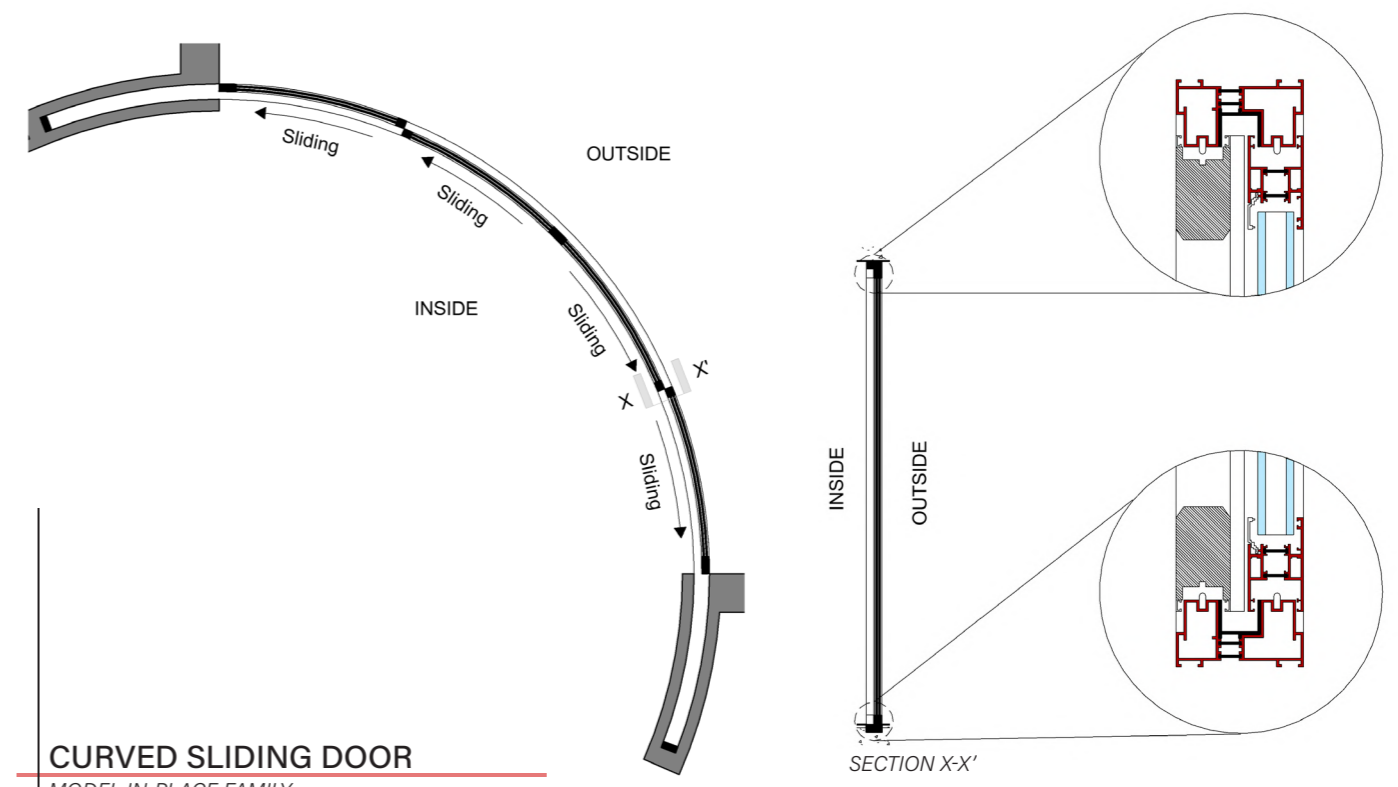
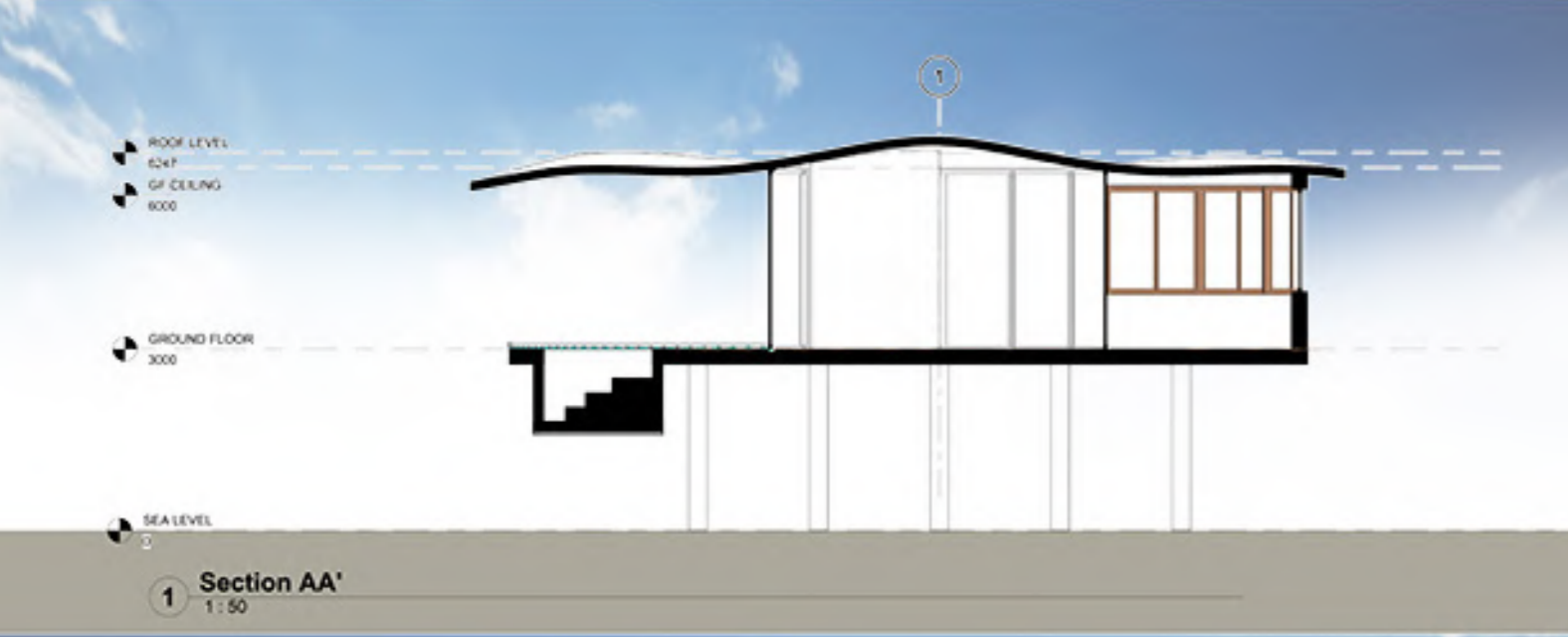
Luxurious Living: Opulence is at the forefront of the resort design. Lavish materials, high-end finishes, and meticulously crafted interiors create an atmosphere of sophisticated indulgence.

Panoramic Views: A breathtaking vista of the sea stretches in every direction. The design ensures that these magnificent views are accessible from every part of the resort, creating a constant reminder of the natural beauty that surrounds it. Whether you're lounging by the private pool, enjoying a spa treatment, or simply gazing at the horizon, you'll experience a sense of profound relaxation that is unparalleled.

Absolute Silence: The design provides a sanctuary where you can let the cacophony of the world recede into the background, allowing you to hear the whisper of the gentle waves caressing the villa's base, creating a soothing symphony of nature's own. The design allows you to feel like you're floating in splendid solitude, yet in the most comforting manner.

The design goal is to embrace the beauty and calm of the natural world. It's an opportunity to reconnect with yourself, to find solace in the gentle lullaby of the waves, and to savor the feeling of floating in the sea, all while being surrounded by the finest comforts. Here, you can leave the world behind and discover a sense of serenity that can only be found in the heart of the endless sea.





Parameter Properties

Parameter Type

Family parameter
(Cannot appear in schedules or tags)

Shared parameter
(Can be shared by multiple projects and families, exported to ODBC, and appear in schedules and tags)

Select... Export...

Parameter Data

Name: OPEN Type

Discipline: Common Instance

Type of parameter: Reporting Parameter
(Can be used to extract value from a geometric condition and report it in a formula or as a schedulable parameter)

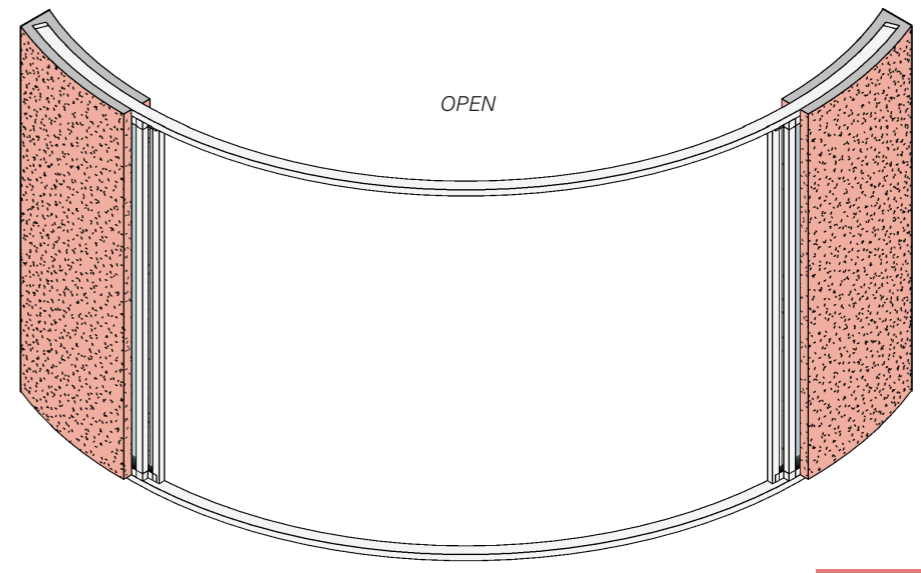
Group parameter under: Visibility

Tooltip description: <No tooltip description. Edit this parameter to write a custom tooltip. Custom

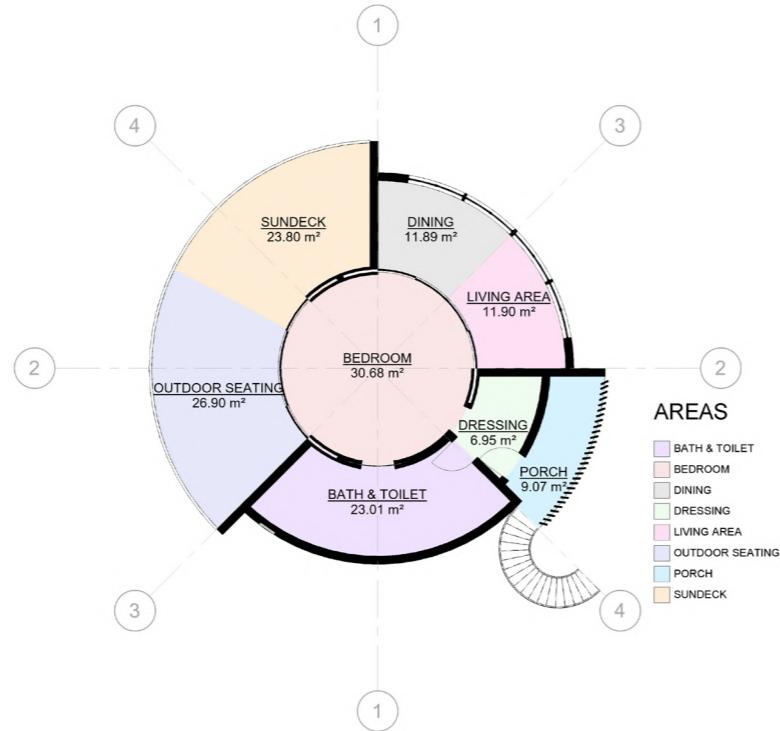
Edit Tooltip...

[How do I create family parameters?](#)

OK Cancel



Area Schedule Ground Floor			
Number	Name	Level	Area
1	BEDROOM	GROUND FLOOR	31 m ²
2	DINING	GROUND FLOOR	12 m ²
3	BATH & TOILET	GROUND FLOOR	23 m ²
4	DRESSING	GROUND FLOOR	7 m ²
5	PORCH	GROUND FLOOR	9 m ²
6	SUNDECK	GROUND FLOOR	21 m ²
7	LIVING AREA	GROUND FLOOR	12 m ²
8	POOL	GROUND FLOOR	29 m ²
			144 m ²

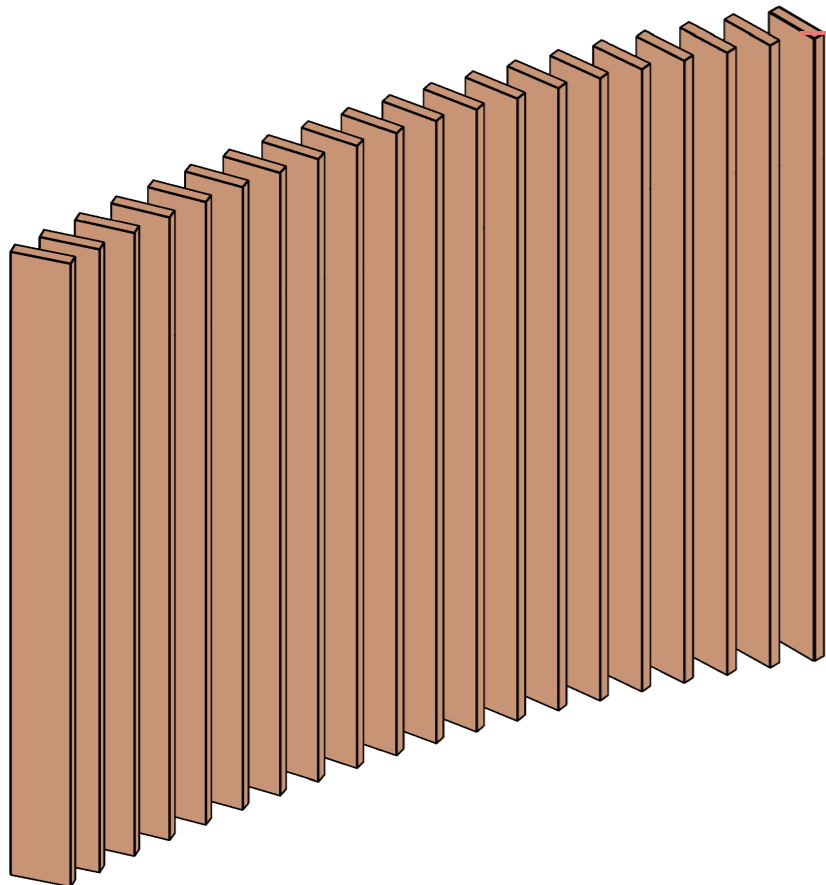


Parameter	Value	Formula
Visibility		
CLOSE (default)	<input checked="" type="checkbox"/>	= not(OPEN)
OPEN (default)	<input type="checkbox"/>	=

FAMILY PARAMETER
YES/NO INSTANCE PARAMTER W. FORMULA

WOODEN WALL LOUVERS

EDITED CURTAIN WALL



Properties

Rectangular Mullion
WOOD LOUVERS

Curtain Wall Mullions (1) Edit Type

Constraints

Angle	30.00°
Offset	0.0

Construction

Profile	System Mullion Profile:...
Position	Perpendicular to Face
Corner Mullion	<input type="checkbox"/>
Thickness	250.0

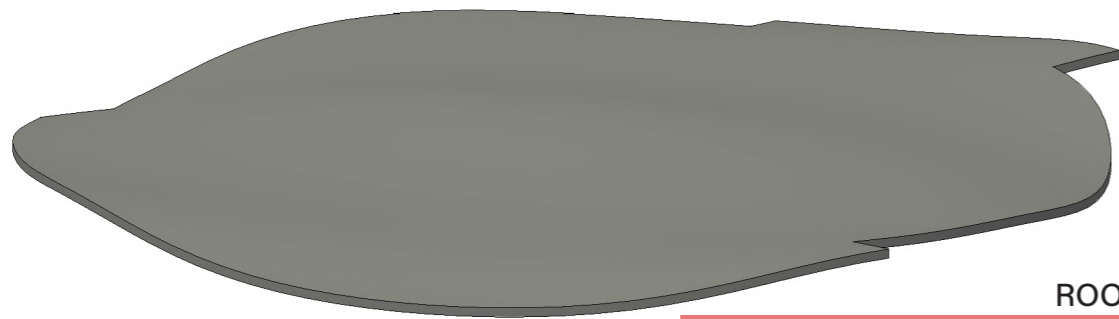
Materials and Finishes

Material	Birch
----------	-------

Dimensions

Width on side 2	25.0
Width on side 1	25.0

[Properties help](#) Apply



ROOF BY FACE

CREATED FROM IN-PLACE MASS



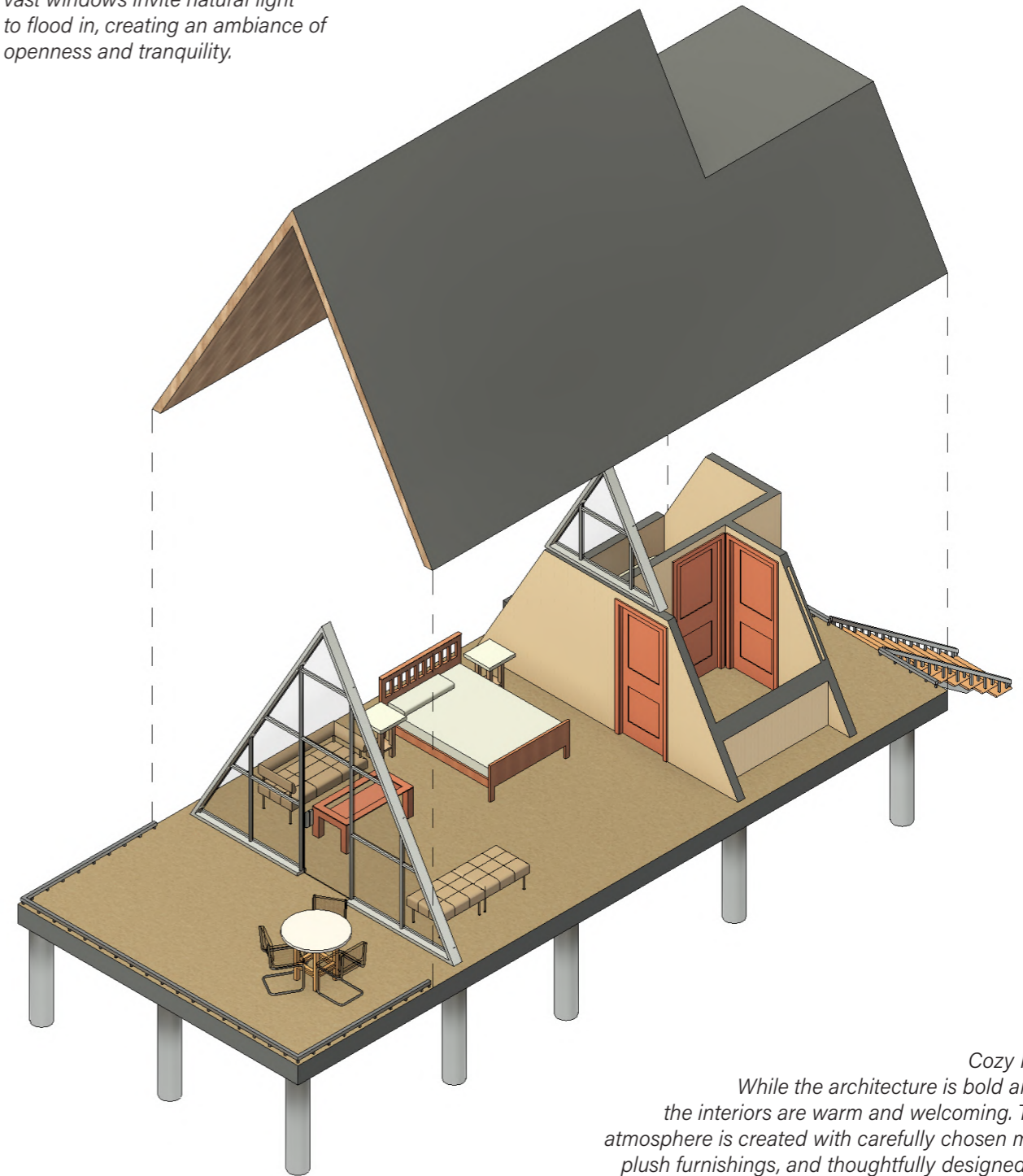
RENDERED VIEW

SOUTHERN FACADE

BEACH VILLA

A-Frame Beach Villas offer a charming and intimate escape, embodying the essence of coziness and serenity. Perched along the shoreline, these cabin-style villas embrace the rugged beauty of the sea and the beach, harmonizing natural landscapes with the warmth of home. With a design that seamlessly blends the indoors and outdoors, these A-Frame tiny house plans create an unbreakable connection with the elements, making relaxation and recreation synonymous with our beachfront paradise.

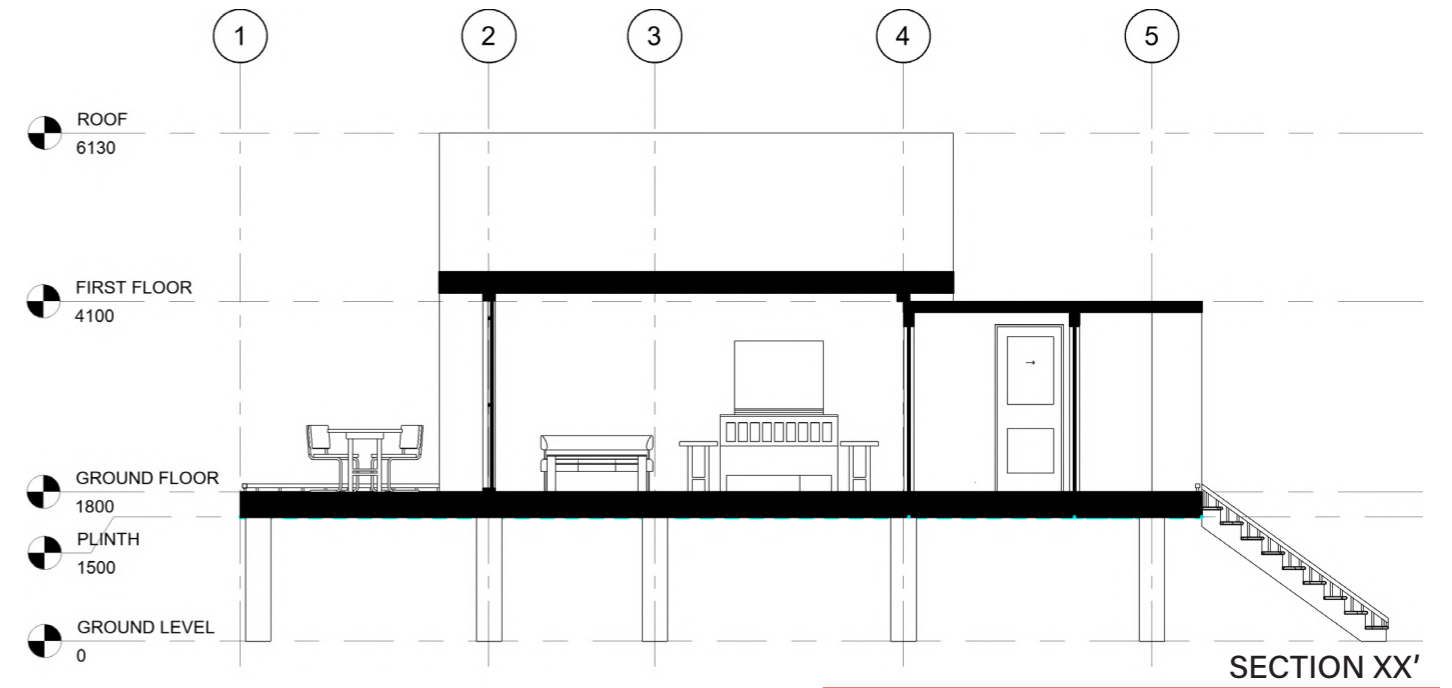
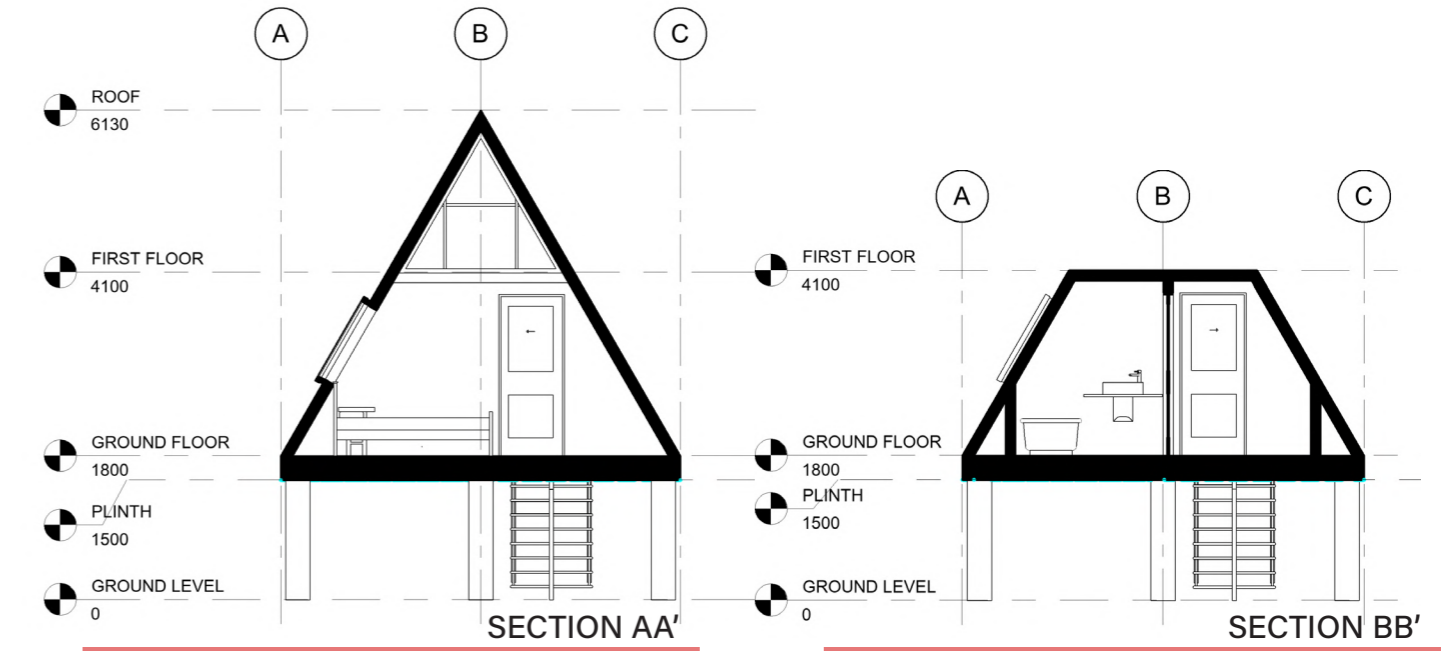
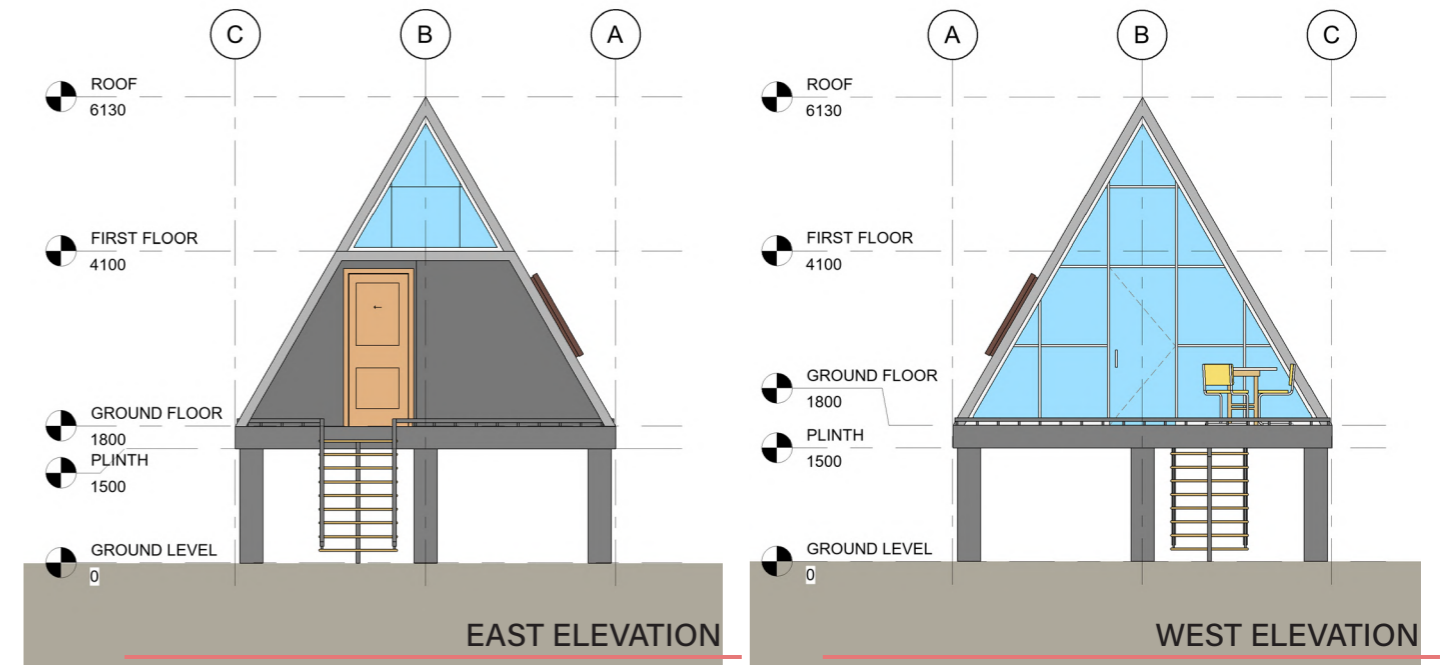
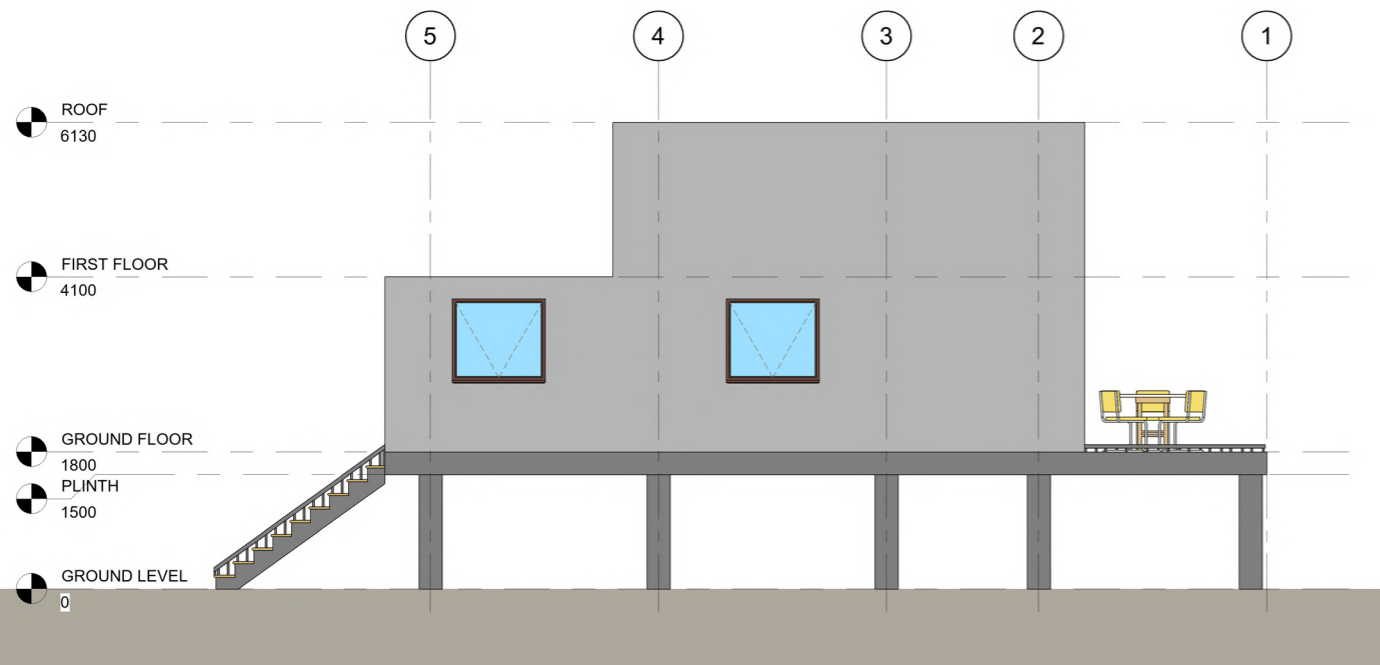
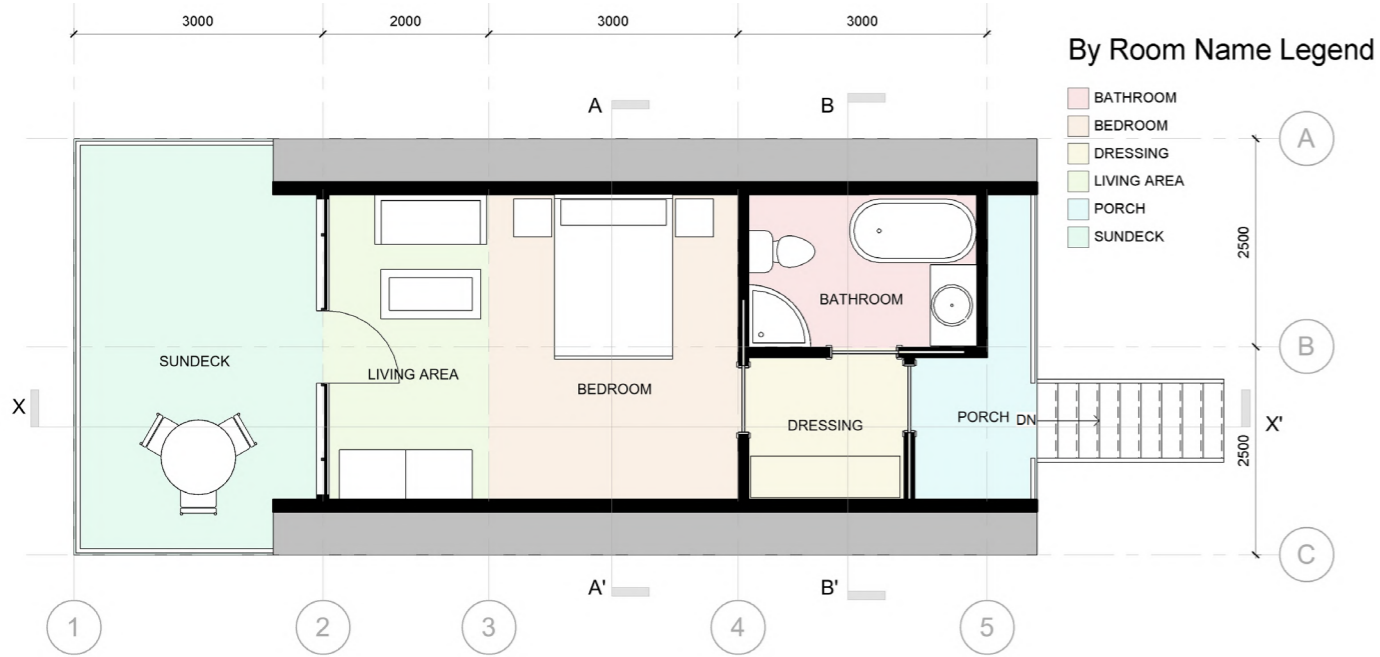
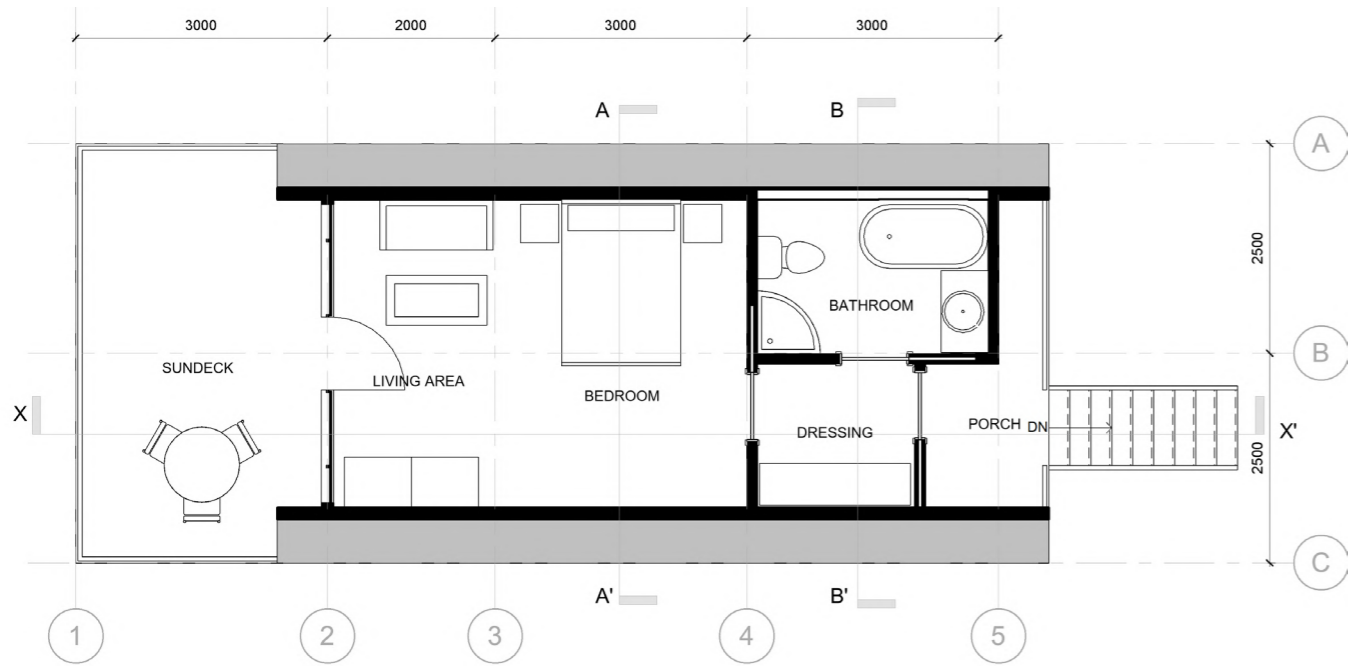
Expansive Window Views: The signature feature of these A-Frame Beach Villas is the generous use of windows. These vast windows invite natural light to flood in, creating an ambiance of openness and tranquility.



Cozy Interiors: While the architecture is bold and open, the interiors are warm and welcoming. The cozy atmosphere is created with carefully chosen materials, plush furnishings, and thoughtfully designed spaces. It's the perfect blend of comfort and rustic charm.

Seamless Indoor-Outdoor Living: Step out onto the private deck, where you can savor the sound of the waves and the salty sea breeze. Whether you're relaxing with a book, sipping a drink, or simply gazing at the horizon, you'll feel intimately connected to the sea and the beach.

A Retreat for Relaxation: They are sanctuaries designed to help you unwind and rejuvenate. Whether one is escaping the busy city life or seeking a romantic getaway, the cozy setting and beautiful views provide the perfect backdrop for relaxation and recreation.





RENDERED VIEW

NIGHT VIEW



RENDERED VIEW

DAY TIME

TYPE : SUSTAINABLE
CAMPUS DESIGN

SITE AREA: 209.71 Acres

LOCATION : IIM SIRMAUR, DHAULA
KUAN, HIMACHAL PRADESH

IIM CAMPUS DESIGN



View of the academic block

Envisioned as a knowledge hub that will evolve into its own ecosystem seamlessly integrated into local, regional and transnational communities.

The campus of a management institute is a unique place with special resonance. It's architecture and planning has in it the power to complement the academic performance. It is the supportive environment of the campus generated with thoughtful development and a set of fundamental planning principles of the factors such as campus social development, campus population and the growth plan, residential accommodation, land use, environment impact, sustainability, local community impact and interaction, transportation, provision of utilities and communication infrastructure that aids in the in-campus growth and contributes to the overall community development.

The campus is a complex composition consisting of designed sub sets of varied functions. Each sub set, in turn, is a composition made of other compositions such as buildings, open spaces, and site features. Therefore, the construct is a complex nested arrangement of functional spaces down to the smallest detail. Thus, the campus becomes a layered tapestry of spaces, buildings, road networks, landscapes, and other site features, as well as colours, materials, scales, textures, and patterns that need to be blend with the surroundings and settlement of the region resolved when designing new campus buildings and spaces.

It is the value which defines the interface of the user with the campus. Residents of the campus including students, faculty and staff share a very significant relationship

with the campus which could be expressed in terms of associative value, social adjunction, building character and various building typologies are a measure of this. Being a residential campus, people spend a significant component of their life in the campus and these people are bright minds shaping the country and its future, therefore the association with the campus becomes a very important factor of their day to day life. The building environment cannot afford to generate any sense of monotony or lethargy by any means in the minds of residents which the associative value has to take care of.

The campus in its full strength would be housing more than 3000 people and it becomes a very important core urban element, thereby generating an unparalleled urban value. This urban value is expressed in terms of landscape, water, energy, waste, traffic, services and utilities context with regards to campus and regional level. The connection methodology that the campus would have to get integrated with the outskirts would form a very integral component of this value. Moreover, it would be an expanding campus, thus it should be made sure of that expansion doesn't hamper/affect the lives of existing residents in any manner, thereby making Phasing plan also an integral component of the urban value.

Site Analysis



Site location: IIM SIRMAUR, Dhaula Kuan, Himachal Pradesh, 173021

Site Area: 209.71 ACRES (848674 m²)

Climate type: hot and sub-humid tropical

Topography: The topography of the allotted site is almost flat with a very gentle slope from west to east. AN ALTITUDE FROM 461 m from mean sea level to 437 m from mean sea level.

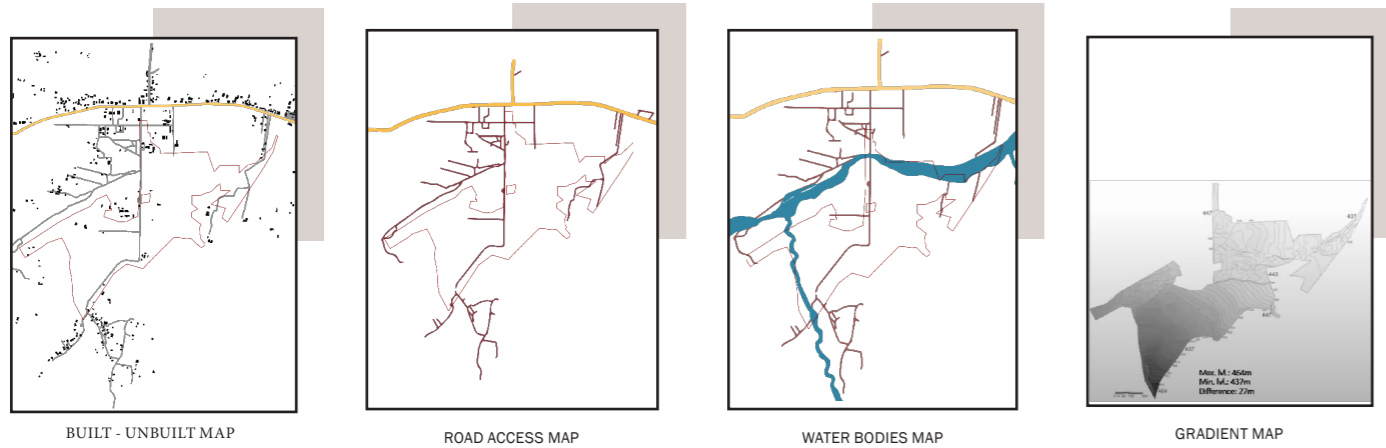
Type of soil: Brown hill soil having sandy to clay loamy texture.

Co-ordinates: 30.5628° N, 77.4702° E

Altitude: It is situated at an altitude of 932 metres from the sea level.

surroundings: The surroundings comprise of features like the Himalayan Ranges in the North and Shivalik Ranges in the South. In the northern side of the land, there are fruit orchards.

FEATURES: Sankul river is passing from the site, its a seasonal river.



STRENGTHS

Natural landscape exist which cuts the noise from highway. Transportation access already exists into the site. Good views from the site as it is surrounded by forests. As the Site already has a river flowing into it, there is no need of provision of water body again. The site had gentle slope and is almost flat land.

WEAKNESSES

Almost 40 acres of the land is under the influence of the river Sankul and its bed. Site entrance is from the highway which could lead to lot of traffic. Long distance from the highway end of the site to the forest end of the site which means circulation needs to be planned in order to avoid inconvenience or energy waste.

OPPORTUNITIES

Growth in development of the area. Revenue generation and increase in literacy rate. The road and river are cutting the site in three which can be used to divide the site into parts. The river and forest views can be taken advantage of to make good social spots for students to hang out in.

THREATS

The site is in Earthquake prone area. The site is in flood prone region. Forests around the site might cause forest fires if not taken proper care. The site has very high winds. Possibility of industrial accidents as there is a steel industry plant in site proximity.



Concept and Zoning



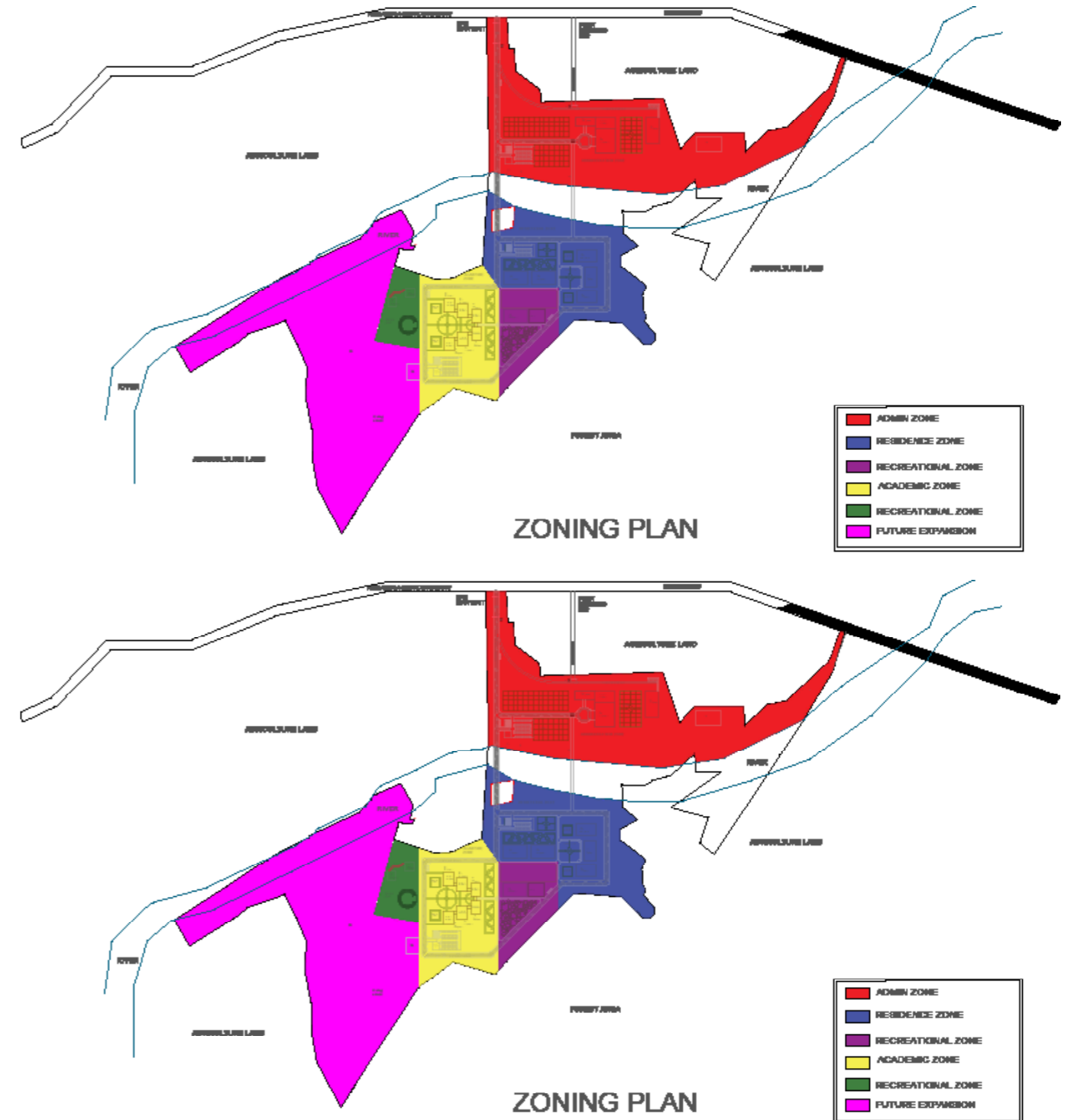
CASE STUDY INFERENCES:

IIM Bangalore, Karnataka:

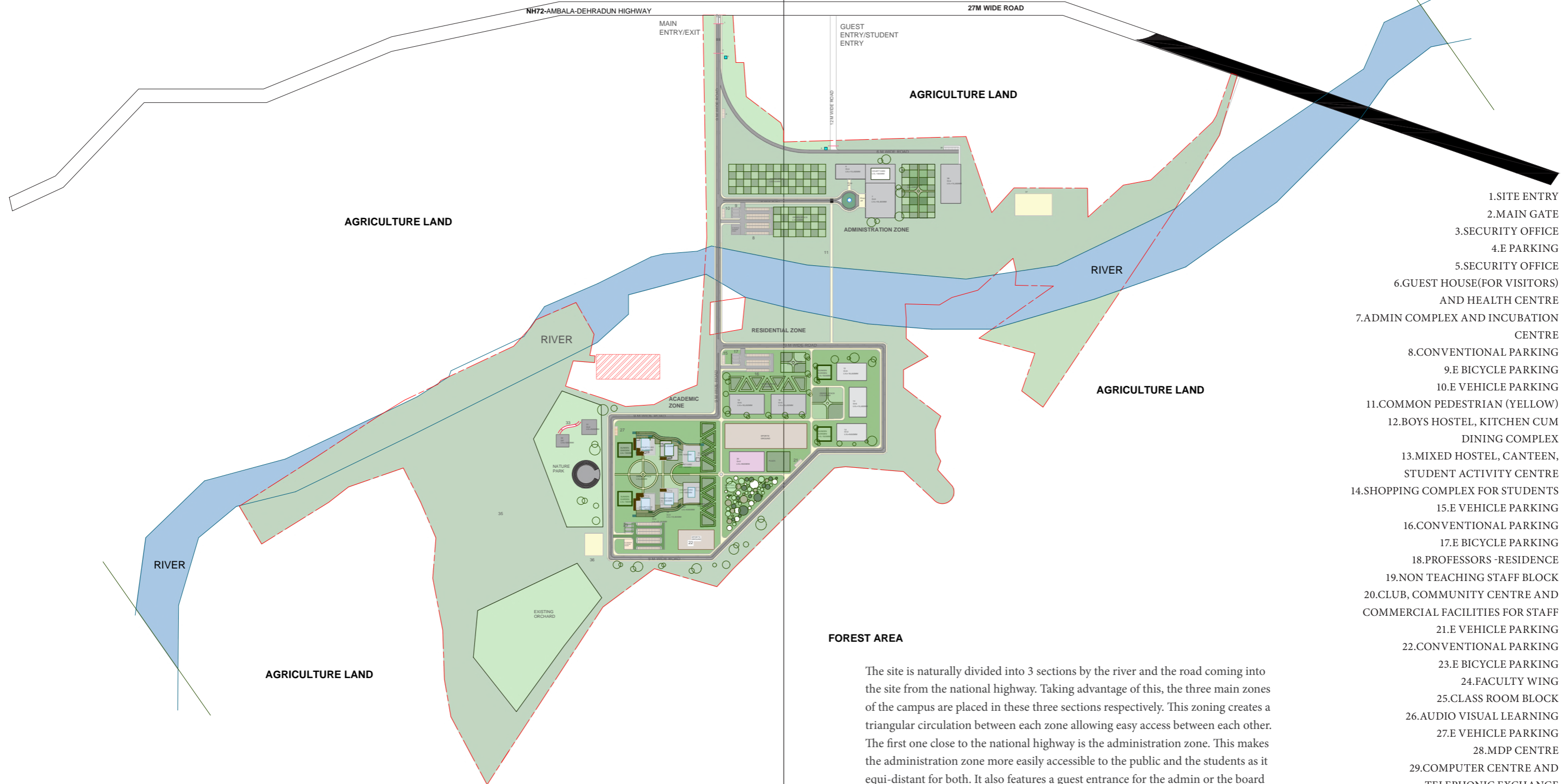
Proper care taken for sufficient light and ventilation. Nature made a part of design. Use of solar panels. Semi open corridors to create a sense of openness in design. Chajjas and recessed windows for shading.

TERI Building, New DELHI:

Passive solar design is an important feature. The planning and orientation of spaces and building blocks ensures glare free daylight in all regularly occupied spaces. All the linear blocks are oriented in the East-West direction with shorter facades facing the sun. Most of the south west facing walls are kept blank in order to protect the building from the harsh south west solar radiations. Where the south west walls have openings, they are protected by means of pergolas or projecting balconies.



Site Planning



- 1.SITE ENTRY
- 2.MAIN GATE
- 3.SECURITY OFFICE
- 4.E PARKING
- 5.SECURITY OFFICE
- 6.GUEST HOUSE(FOR VISITORS) AND HEALTH CENTRE
- 7.ADMIN COMPLEX AND INCUBATION CENTRE
- 8.CONVENTIONAL PARKING
- 9.E BICYCLE PARKING
- 10.E VEHICLE PARKING
- 11.COMMON PEDESTRIAN (YELLOW)
- 12.BOYS HOSTEL, KITCHEN CUM DINING COMPLEX
- 13.MIXED HOSTEL, CANTEEN, STUDENT ACTIVITY CENTRE
- 14.SHOPPING COMPLEX FOR STUDENTS
- 15.E VEHICLE PARKING
- 16.CONVENTIONAL PARKING
- 17.E BICYCLE PARKING
- 18.PROFESSORS -RESIDENCE
- 19.NON TEACHING STAFF BLOCK
- 20.CLUB, COMMUNITY CENTRE AND COMMERCIAL FACILITIES FOR STAFF
- 21.E VEHICLE PARKING
- 22.CONVENTIONAL PARKING
- 23.E BICYCLE PARKING
- 24.FACULTY WING
- 25.CLASS ROOM BLOCK
- 26.AUDIO VISUAL LEARNING
- 27.E VEHICLE PARKING
- 28.MDP CENTRE
- 29.COMPUTER CENTRE AND TELEPHONIC EXCHANGE
- 30.AUDITORIUM AND CONFERENCE BLOCK
- 31.CENTRAL LIBRARY
- 32.MEDITATION CENTRE
- 33.PEDESTRIAN BRIDGE
- 34.OAT
- 35.FUTURE EXPANSION
- 36.SERVICE ZONE 1
- 37.SERVICE ZONE 2
- 38.GUEST HOUSE VIP AND DIRECTOR RESIDENCE
- 39.CONVENTIONAL PARKING

FOREST AREA

The site is naturally divided into 3 sections by the river and the road coming into the site from the national highway. Taking advantage of this, the three main zones of the campus are placed in these three sections respectively. This zoning creates a triangular circulation between each zone allowing easy access between each other. The first one close to the national highway is the administration zone. This makes the administration zone more easily accessible to the public and the students as it is equi-distant for both. It also features a guest entrance for the admin or the board members to access the campus easily and hassle free. The next zone is the residential zone which is placed in the right bottom side of the site, since the academic zone is right next to it, it will make the interconnection easier and the landscaping buffer between these zones will also separate them while making sure the interconnectivity is not disturbed. The academic zone is located on the left side of the site since that has the largest area. This will make future expansion easier while making sure all the academic blocks are near by for easy access to students and the staff. This type of planning maximises the use of the available open site seamlessly integrating with the local environment creating a stimulated campus setting.

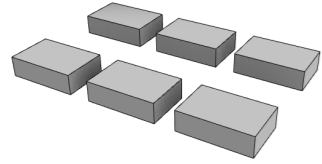
LEGEND

- EXISTING STRUCTURES
- SITE BOUNDARY
- RIVER

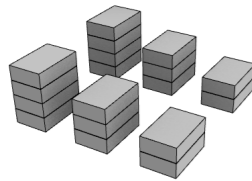
Site Plan with Legend

Academic Block Design

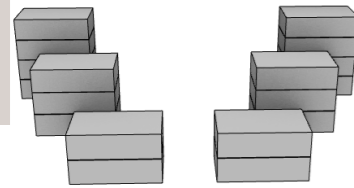
Concept



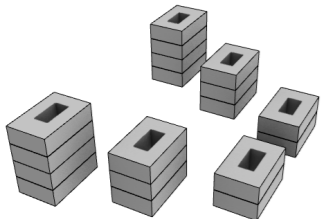
SIX BUILDINGS FOR SIX DEPARTMENTS



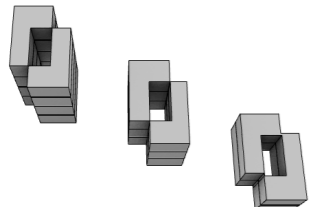
NO. OF FLOORS ACCORDING TO THE AREAS REQUIRED



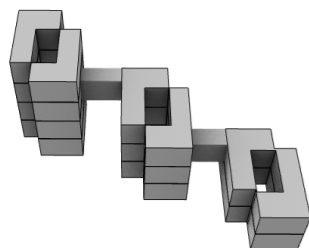
DISTANCE BETWEEN THE BUILDINGS INCREASED FOR BETTER WIND CHANNELLING AND VIEWS



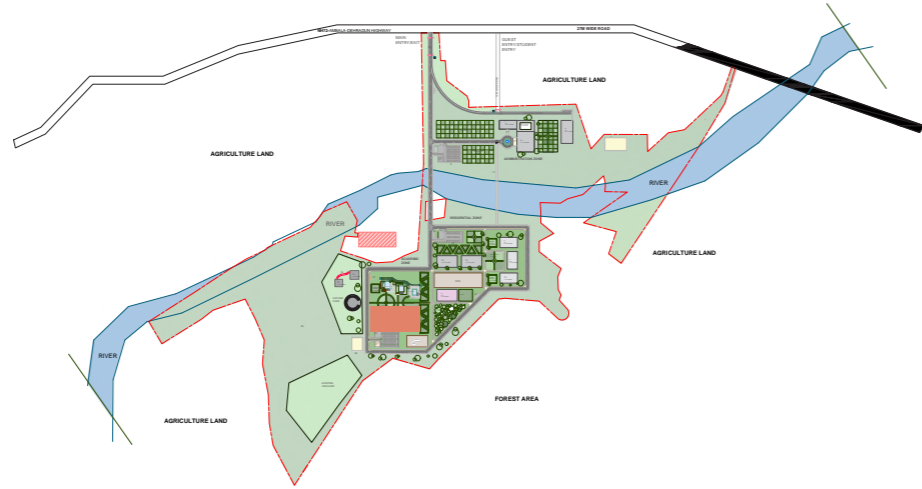
ATRIUMS FOR EACH BUILDING FOR STACK EFFECT AND VENTILATION



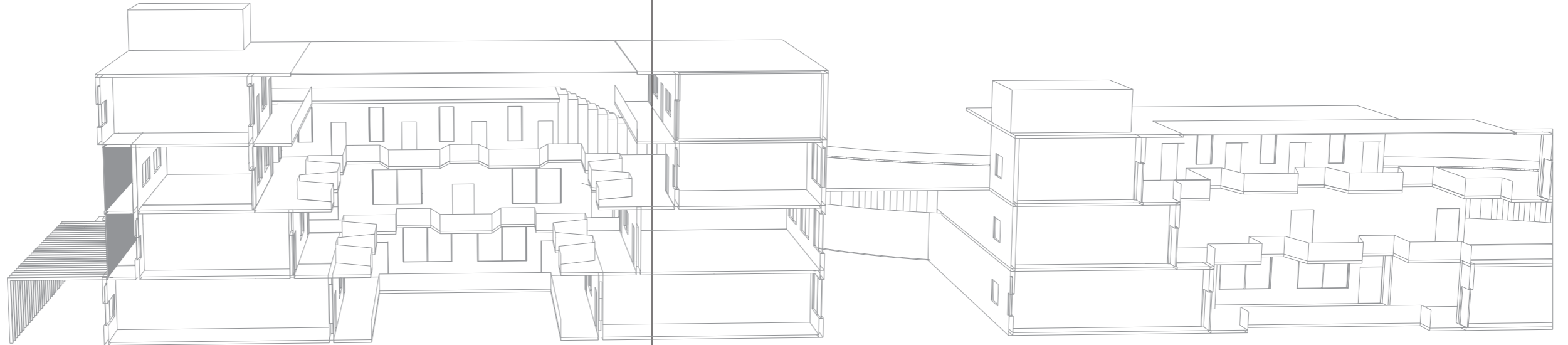
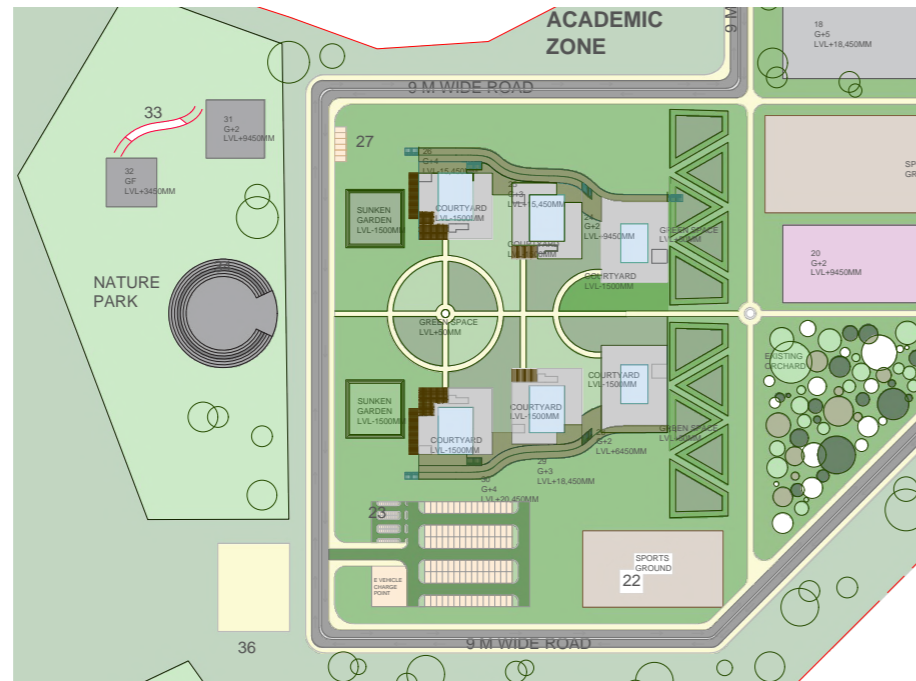
POROSITY IN THE FORM FOR BETTER WIND FLOW INTO THE BUILDING AND CROSS VENTILATION



CONNECTION BETWEEN THE BUILDINGS FOR BETTER CIRCULATION



Academic Block Plan



Academic Block Ground Floor Plan

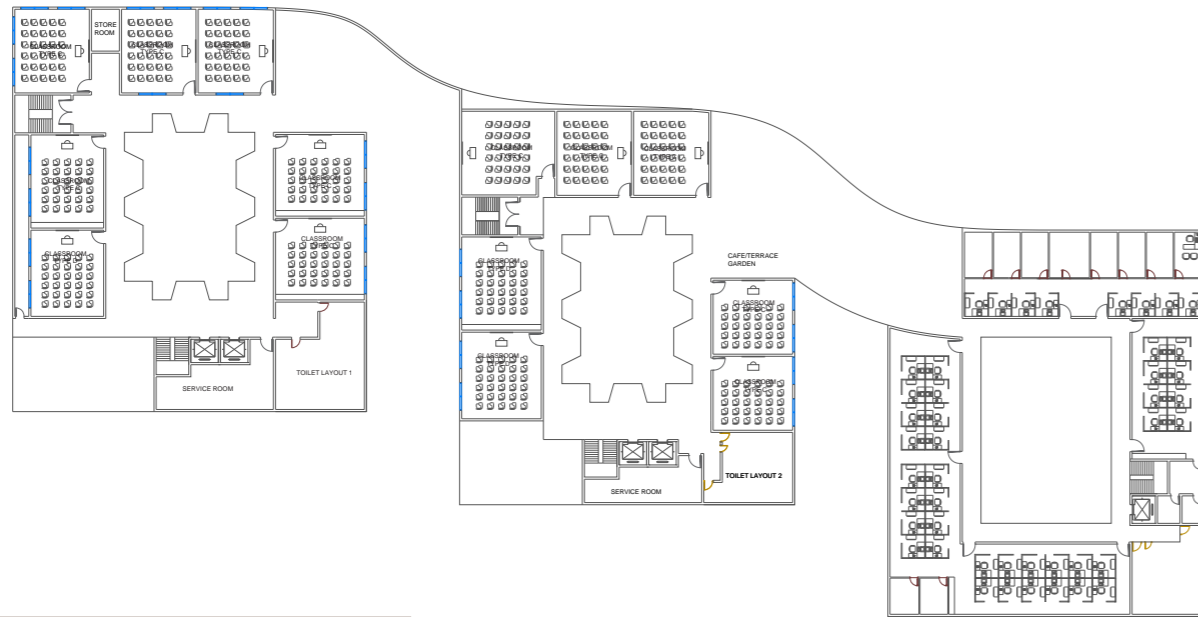
The academic block is planned to accommodate to the site climate and context. Large windows are provided on the northern side of the classrooms to let glare-free sunlight into the classrooms providing the students with natural light.

A green wall is provided on the western side of the building that shields the usable spaces from harsh western sun. The green buffer zone between the wall and the usable spaces further cuts off the radiation.

The structure has a terrace garden at every level. Free-flowing cascading green terraces. These Terraces also provide insulation to office spaces below thus reducing heat / ac load resonating with the idea of a sustainable building. Green terraces not only allow one to work outdoors, stimulate interaction amidst the flora and fauna but also offers trails for those who wish to enjoy leisurely walks.

Porosity in planning and form allows continuous movement of breeze.

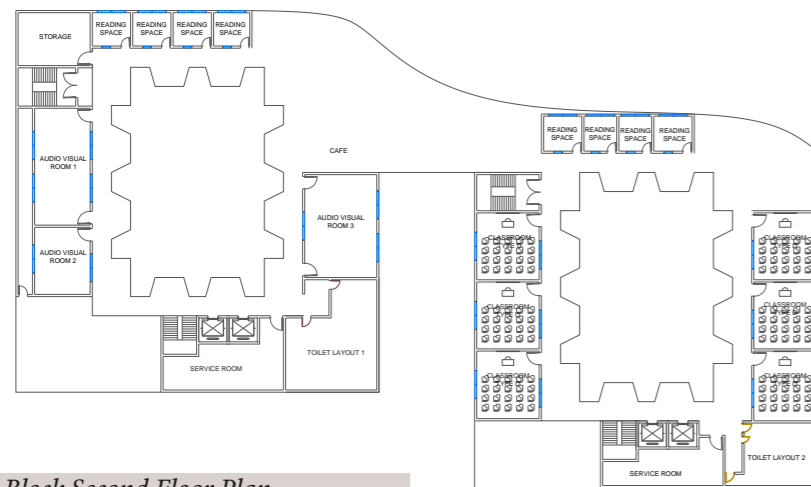
- CLASSROOM TYPE A
- CLASSROOM TYPE B
- WORKSHOP
- STORE ROOM
- FIRE SAFETY EXIT
- SERVICE ROOM
- TOILET
- OFFICE ROOMS
- STORAGE
- FACULTY LIBRARY
- STORAGE FOR LIBRARY
- FACULTY LOUNGE
- CONFERENCE ROOMS
- STATIONARY SHOP



Academic Block First Floor Plan

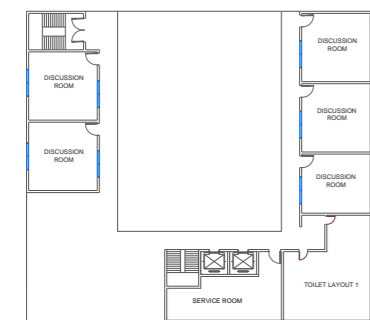
One of the issues that are observed in classrooms that are situated on levels other than ground floor is related to corridor planning. Students are usually seen waiting for others or groups of students standing in the corridor and chatting. This leads to congestion in the corridors especially during rush hours. To avoid this problem, corridors are given an extension area so that students can have engaging conversations without disturbing the movement or causing congestion.

- CLASSROOM TYPE C
- CLASSROOM TYPE D
- STORE ROOM
- FIRE SAFETY EXIT
- SERVICE ROOM
- TOILET
- STAFF ROOM



Academic Block Second Floor Plan

Foster living, learning and discover – integrated social and academic activities through the use of spatial planning. The terrace on the academic block creates a co-existence of the built and natural environment brightening the mood of the area and helps relieve stress by adding visual value while creating an engaging environment for students to explore.

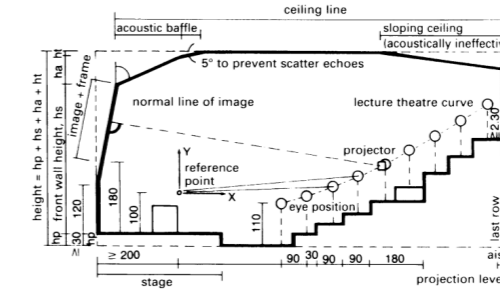
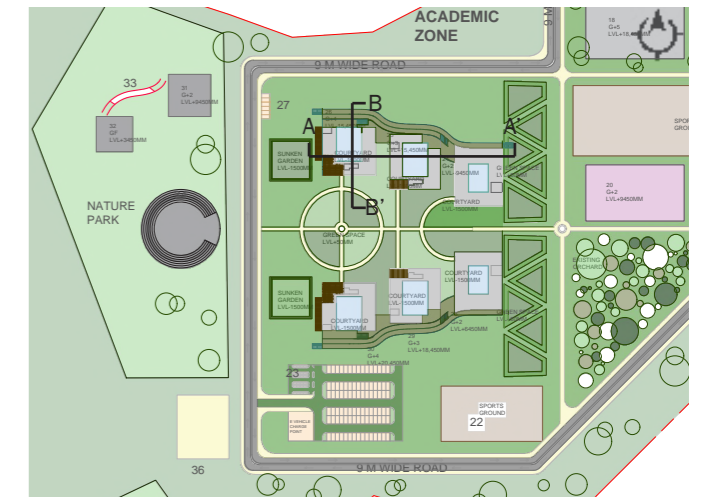


Academic Block Third Floor Plan

- AUDIO VISUAL ROOMS
- READING ROOMS
- STORAGE
- FIRE SAFETY EXIT
- SERVICE ROOM
- TOILET
- CLASSROOM TYPE D
- DISCUSSION ROOMS

It feels like the building is a part of the environment. The institute presents an image consistent with the local environment and current ecological sustainable development (ESD) principles without dominating the landscape.

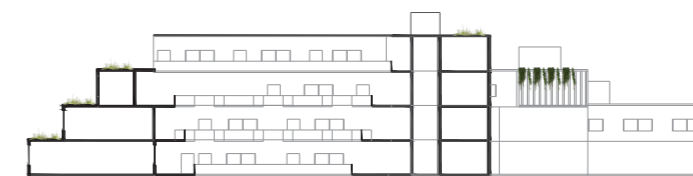
Quality of the learning environment is enhanced as it is equipped with technology, increased flexibility and interaction promoting interdisciplinary learning.



Long section of a lecture theatre

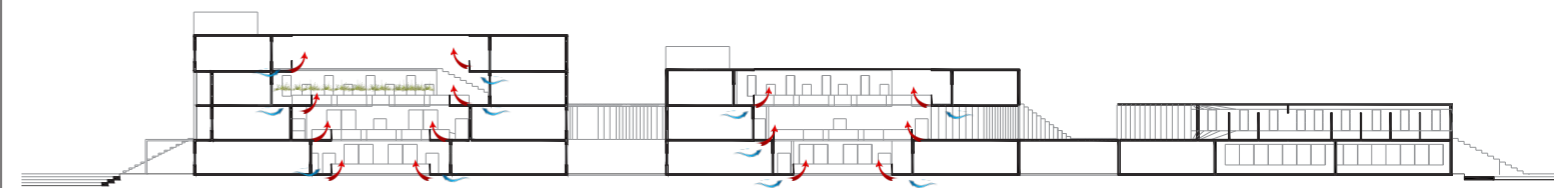
SECTION OF CLASSROOM TYPE A

This section shows the classroom seating arrangement in a section to understand the eye position of all the students to the stage.



SECTION B-B'

This section depicts the three-tier terrace on the northern side of the block and also the floor plan differences in the block.



SECTION A-A'

This section displays the section showing all the three buildings in the academic block that are interconnected with each other. The level difference between each building is visible in the section. It also shows how each building has open feeling to it because of the large central courtyard that also helps with stack effect and cross ventilation.

The building's siting and orientation:

Took advantage of the views (where possible)

Minimized the impact of prevailing winds

Encouraged passive solar design

Have a clear and identifiable main entry

Provide good pedestrian and vehicular access

Neighbourhood:

Contribution towards enhancement of social environment of neighbouring communities – the nalah and river which are the lifelines for the people in neighbouring villages are integrated with design in such a way that there would be no restriction in its flow lines.

Reinforcing a sense of community – unifying the campus using clear sightlines and circulation spines.

Encouraging commingling of functions and promotion of dynamic range of social activities.

Engaging neighbourhood environments.

An appropriate balance of buildings and landscape.

Respecting adjacent neighbourhoods.

Campus Circulation:

Separate Pedestrian access.

Separate Vehicular access.

A drop off point for taxis and non-commercial vehicles delivering facility users – ambulant and otherwise.

Promotion of alternative modes to have zero vehicular traffic

Separate cycle tracks are part of the design.

Adequate provision of charging points for EMV's.

Utility infrastructure:

Maximizing opportunities for generating and using renewable energy

Appropriate centralized and distributed systems while enforcing local systems with latest technologies

The designed built facilities are environmentally friendly, with a view of reducing running costs of the building where possible.

“

DESIGN CREATES CULTURE

CULTURE SHAPES VALUE

VALUES DETERMINE THE FUTURE

”



TYPE : RESIDENCE

SITE AREA: 5.5 Acres

LOCATION : Toor Enclave, Jalandhar,
Punjab

THE HAVEN

04

The famous quote defines very well about the need of building like Residence. The need for shelter by man has always been an issue for both the person in need of a house and the people with the responsibility of providing the house or designing it. It is common knowledge that the need for shelter ranks second in the hierarchy of needs of man after food. In the early development stage of man the issue of shelter was solved traditionally within its locality. The house designs through this traditional method always reflect the socio-cultural characteristics of the people, because they were built by the people themselves.

The architect has to understand the socio-cultural factors in today's context as it affects the people life style/house owner. The relationship of these socio-cultural factors to housing design is that it helps the architect to determine the house layout and its composition, size and appearances.

A good housing design is one that identifies the social cultural factors, understands them and ensures that they are not just reflected in the design alone but that the design ideas and scheme are built on it.

IDENTIFIED USERS

Family comprises of husband, wife, two children and grandparents.

Husband: Software Engineer.

Wife: An Architect by profession having own Design firm operational from residence.

Children: Among children, elder is of age 10 years, school going, with hobby of playing musical instruments. Daughter is younger of age 6 years, school going with hobby of painting and artwork.

Grand Parents: Grandfather is 65 years young retired Army officer, whereas grandmother is homemaker of age 60 years, suffering from arthritis.

REQUIREMENTS

Design keeping in mind the site considerations, defining activity spaces, design parameters, design elements.

- Grand parents bedroom
- Master bedroom for parents
- Children's bedroom
- Kitchen and dining
- Living room
- Drawing room
- Guest bedroom
- Recreational room
- Parking space
- Architect's Office Space comprising of one architect's cabin, working space for two draftsmen (Digital drafting) and one waiting area.

CONCEPT & FEATURES

A unique house design capturing the spirit of the client and the essence of the space

A modern house design that reflects new, groundbreaking trends in Architecture and Style.

Site constraints were taken into account and the design blends with the natural landscape present in the site.

Features:

- Clean Geometry
- Celebration of Natural Light
- Open Floor Concept
- Natural Materials
- Neutral Color Palette
- Unique Experience

“
STYLE IS A WAY
TO SAY WHO YOU ARE
WITHOUT HAVING
TO SPEAK.
”



Living room on first floor



EXTERIOR VIEW OF THE RESIDENCE

One of the features of modern design is the inclusion of large, unadorned windows. They allow in a plenty of natural light and gives good view of the outside world



Ground Floor Plan



Master Bedroom

The design emphasizes clean lines and geometric shapes. No more are features such as arches, ornate columns, window shutters, or any outlandish ornamentation. In place of these features that at one point spoke of luxury and wealth are simple shapes and intentional asymmetry. The opulence of the past is no more.



First Floor Plan



Grand Parents Bedroom

Ultimately, the aim of modern design is to simplify the home, emphasize function, and remove any unnecessary frills. With the constant distraction and bombardment of technology and stress in our modern lives, simplicity is a calming and welcoming moment in our homes.



Kids Bedroom sectional view



Kids Bedroom interaction space



Kids Bedroom girl's bed



Kids Bedroom boy's bed

"Floor space is precious in a kids room, it's the building zone for lego, trains, fairy kingdoms and hours of fun"



Kids Bedroom interaction space

Small kids' bedroom ideas can be a challenge when it comes to decorating. Every parent wants kids to have a bright, uncluttered place to play and do homework, but they're often stuck with the smaller or oddly-shaped rooms due to space issues. It is important to start with the essentials – bed and storage. From this starting point, there are plenty of opportunities to indulge in charming decoration to add personality. The room is designed as a loft separating the work and play area from the sleeping space. The space under the loft is spacious and leaves plenty of space for them to work and connect with parents while the upper zone gives a sense of privacy and coziness all the while creating a unique nostalgic experience.



Architect's Office waiting area

Large windows of various sizes and shapes removes the spotlight from artwork or busy wallpaper and sets the focus of a room on the natural surroundings of the home. The blend of modern lines and shapes with materials like wood, stone, or exposed concrete makes a bold statement, keeping the home rooted to the past, but clearly bounding towards the future.

A variety of materials blended together for a completely unique, but unified aesthetic.



Living room on first floor

Living Room & Dining

The living room design has a open concept floor plan along with the dining and kitchen. It helps emphasize the trends of simplicity, natural light, and openness. The home is built for families to be together while those large windows shroud the entire home in sunlight.

There is a double floor indoor garden area that is semi covered. Having plants in your home or office can be a source of pleasure. Indoor gardening relieves stress, boosts creativity, productivity, and focus, and promotes recovery. There's some evidence that houseplants may positively influence the air quality in the home as well. The concept is also used in the waiting area for the Architect's office space.

The design of the living area and the waiting area is heavily inspired from the modern conservatory. The doors are bi-folding and has aluminium frame. This helps in emphasising clean lines of geometry and natural sunlight from the glass.

Since this zone is located on the southern side of the site, the double storied wall next to the plants helps prevent harsh sunlight and heat while the openings on either side uses the principles of stack effect to help cool down the living rooms on both the floors and also receives pleasant air quality from the plants.



Living room on ground floor



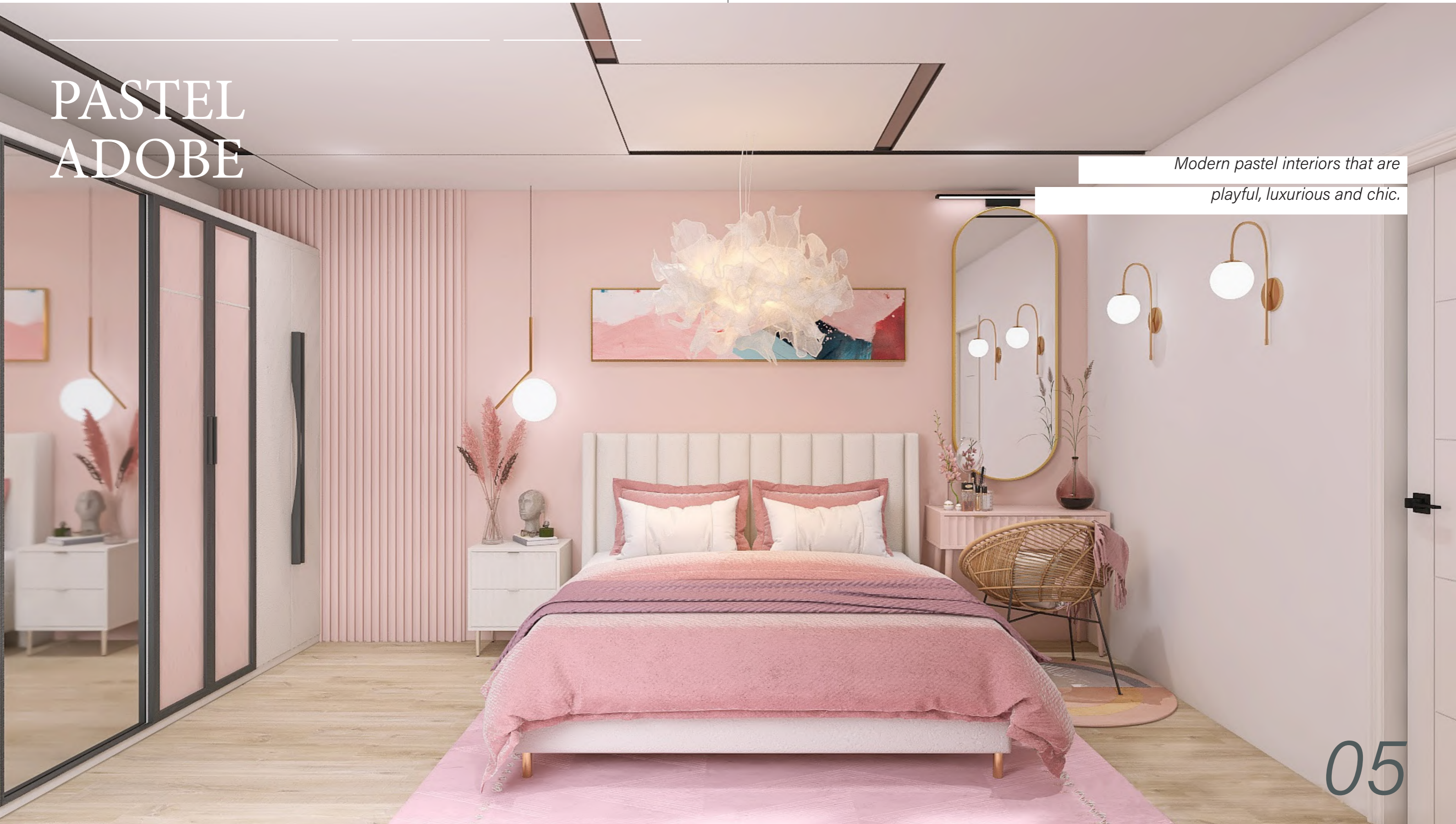
Dining area

TYPE: INTERIOR DESIGN

ROOMS: BEDROOM & LIVING ROOM

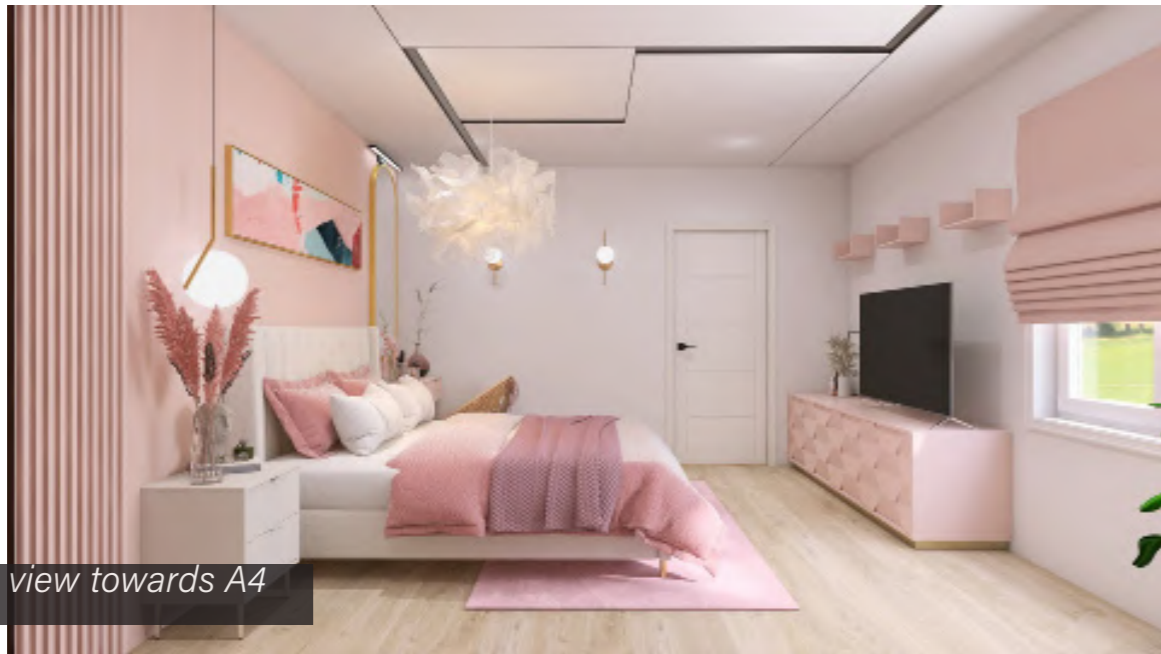
PASTEL ADOBE

*Modern pastel interiors that are
playful, luxurious and chic.*

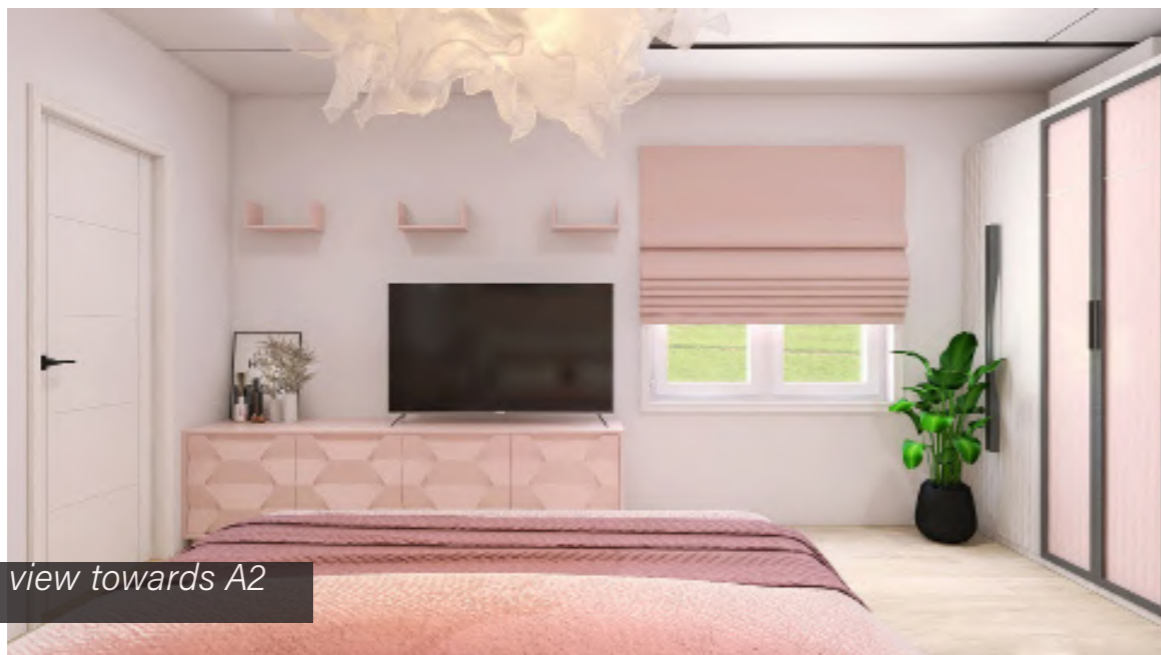




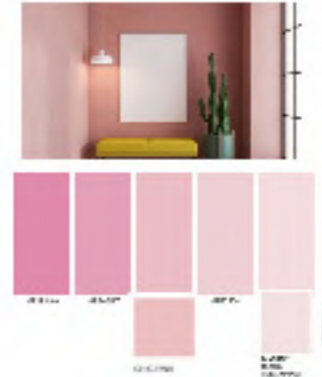
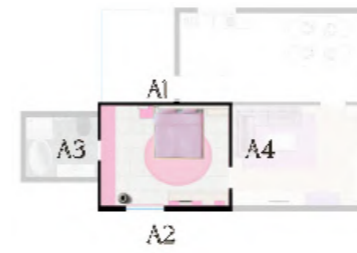
Bedroom view towards A1



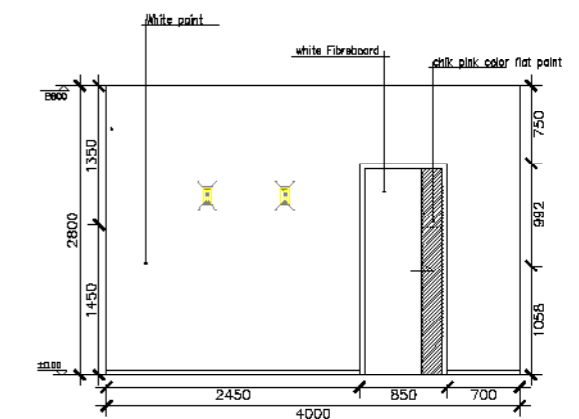
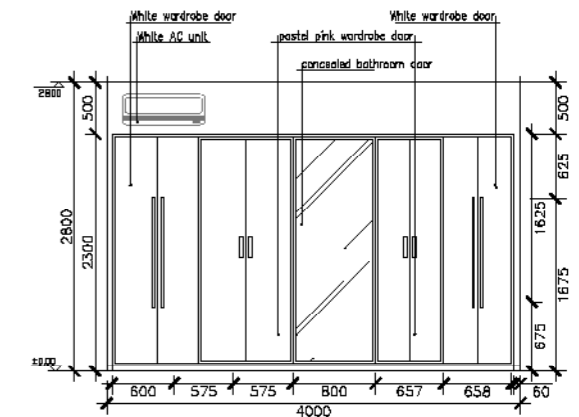
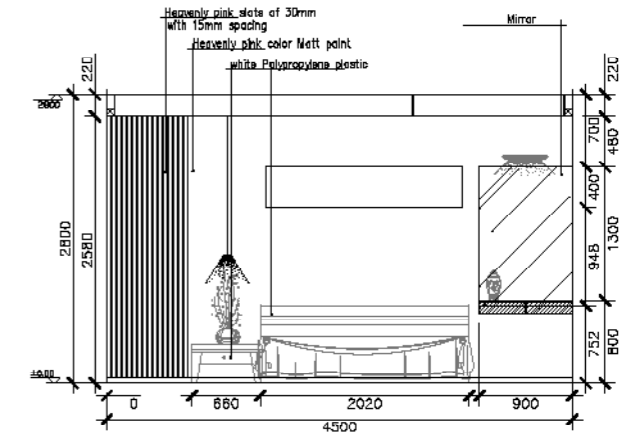
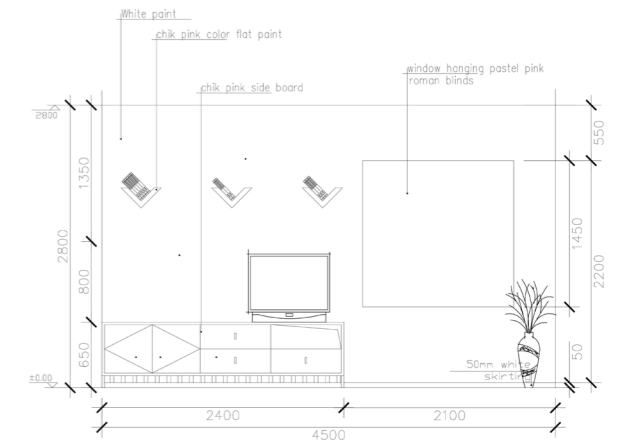
Bedroom view towards A4



Bedroom view towards A2



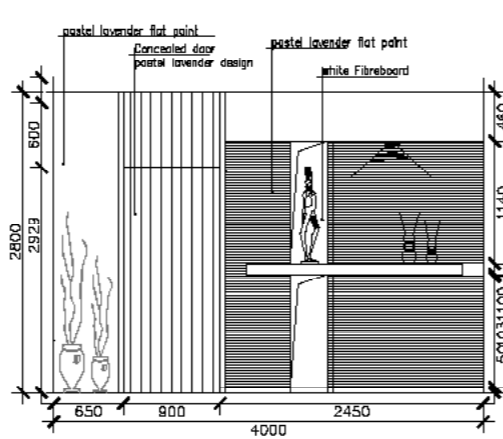
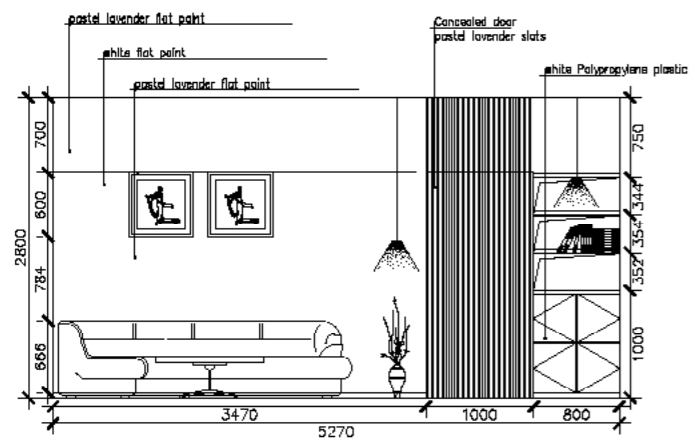
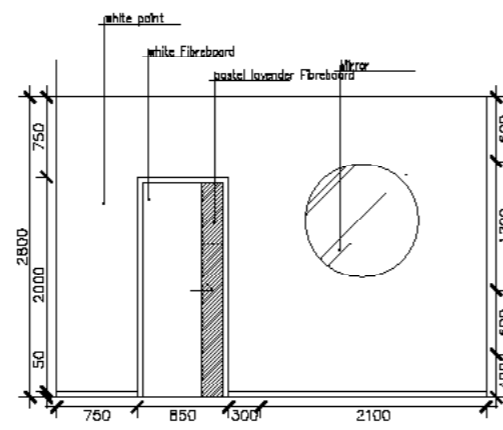
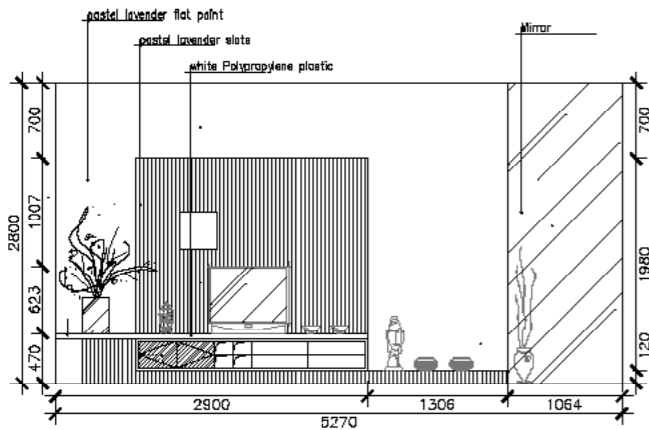
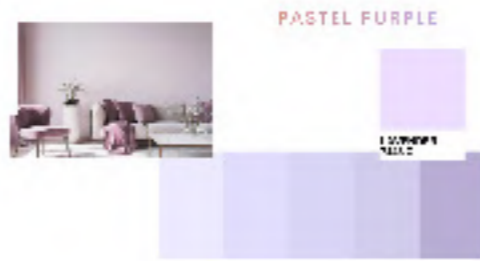
Bedroom Moodboard



The theme of this room is shades of pastel pink. Some of the features of this design are the clean lines, simple geometric shape and gold accents with monochromatic color palette. The room has a pastel pink romanian blinds on the window and the door to the bathroom is concealed among the dresser doors making the design very clean.



Living Room Moodboard



Living room view 1



Living room view 2

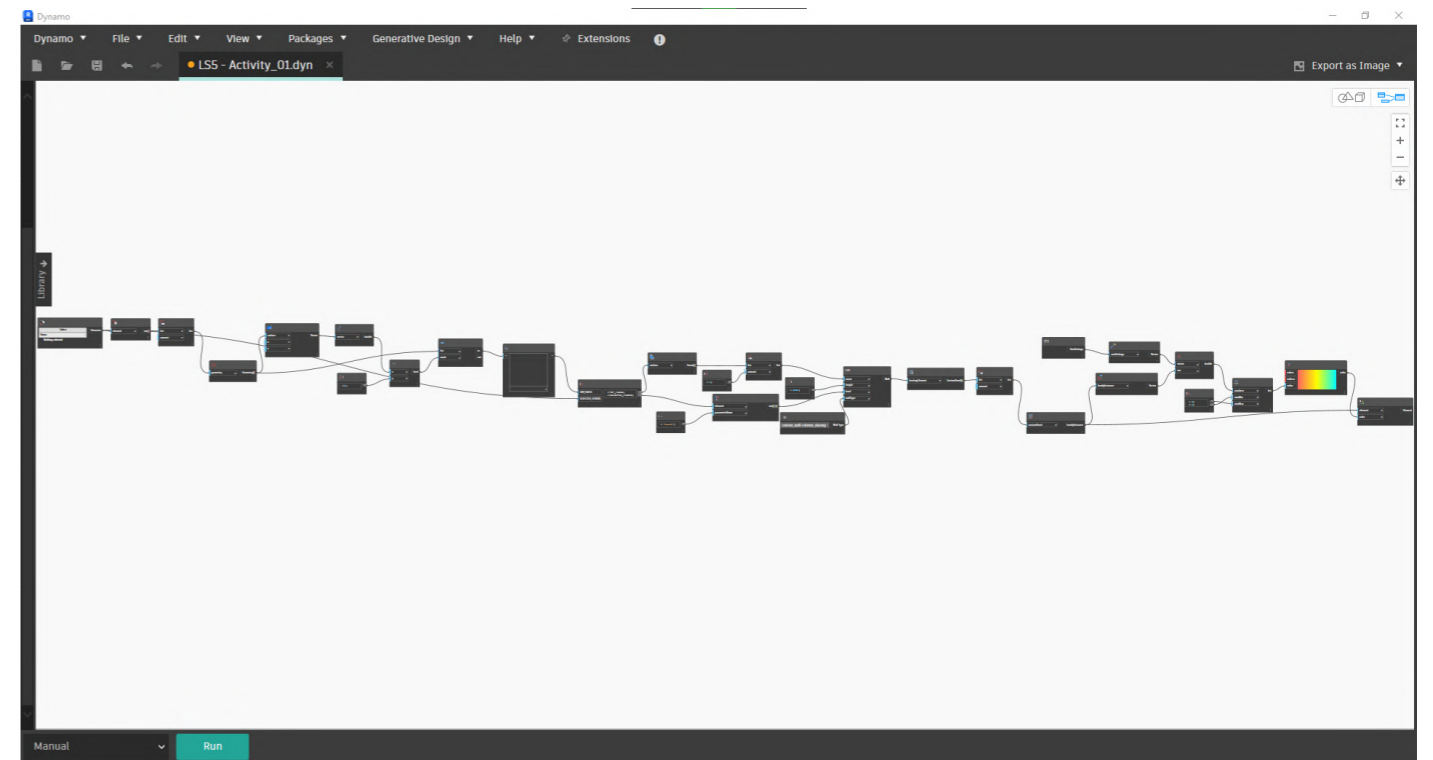
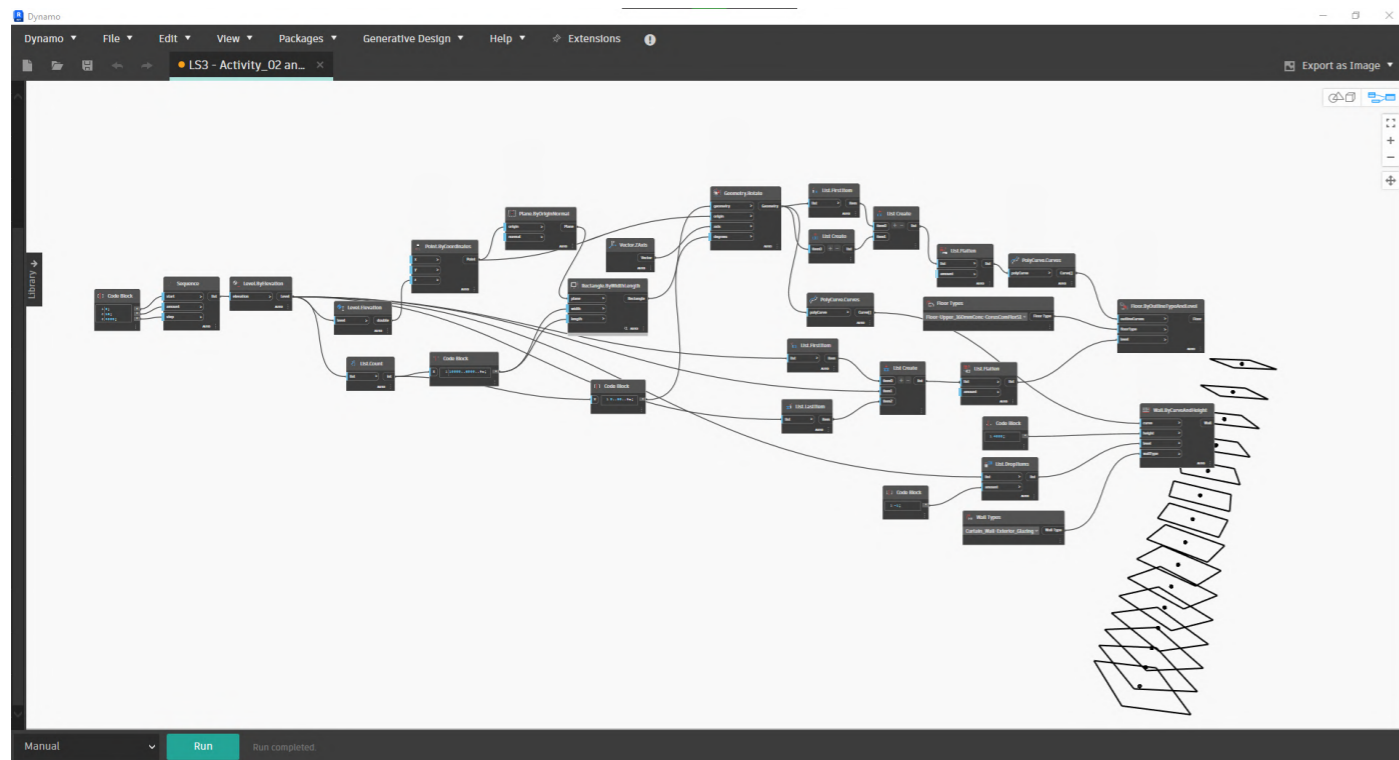
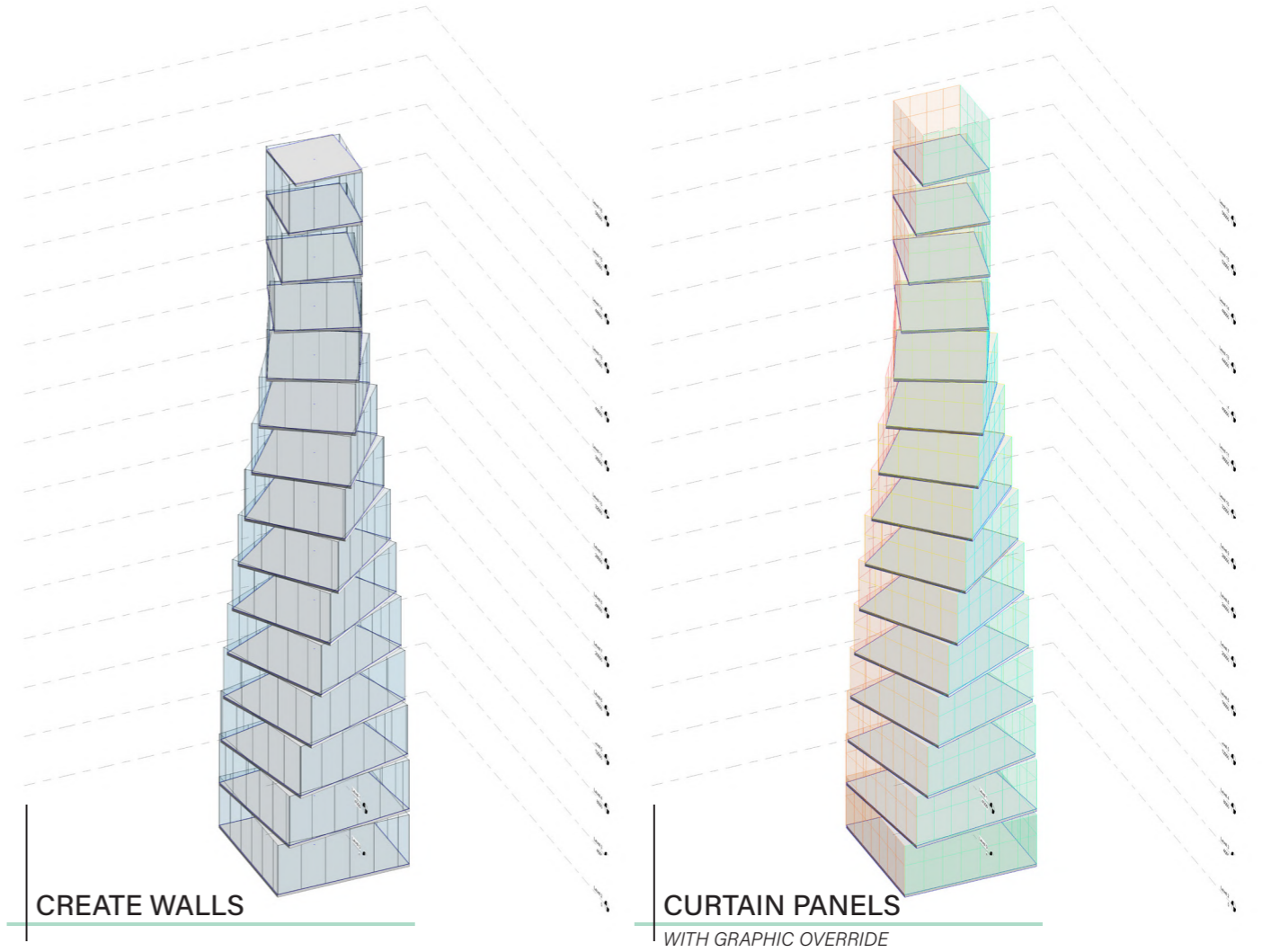
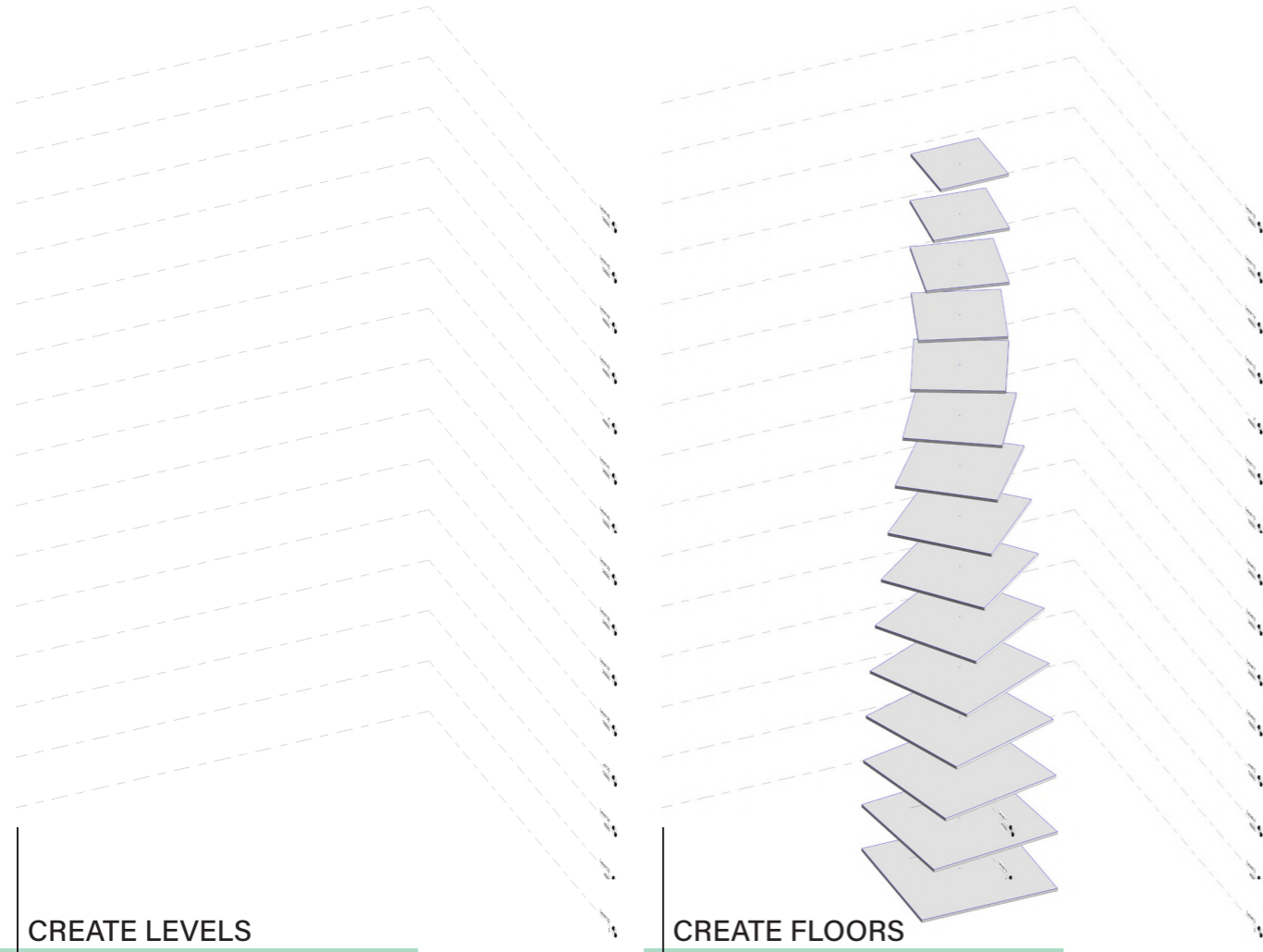
The color theme for the living room is pastel purple. It is said that these tones generate calmness, stillness, and serenity because pastel colors are less saturated than primary colors they're less intimidating and aggressive. Pastels "feel" light, soft and peaceful.

All the doors that are leading out from the living room has concealed doors that blend with the wooden flutes that are seen through out the design.

06

DYNAMO

ENVIRONMENTAL ANALYSIS - Interaction with sun direction



07 3D VISUALISATION



RESIDENCE - MASTER BEDROOM

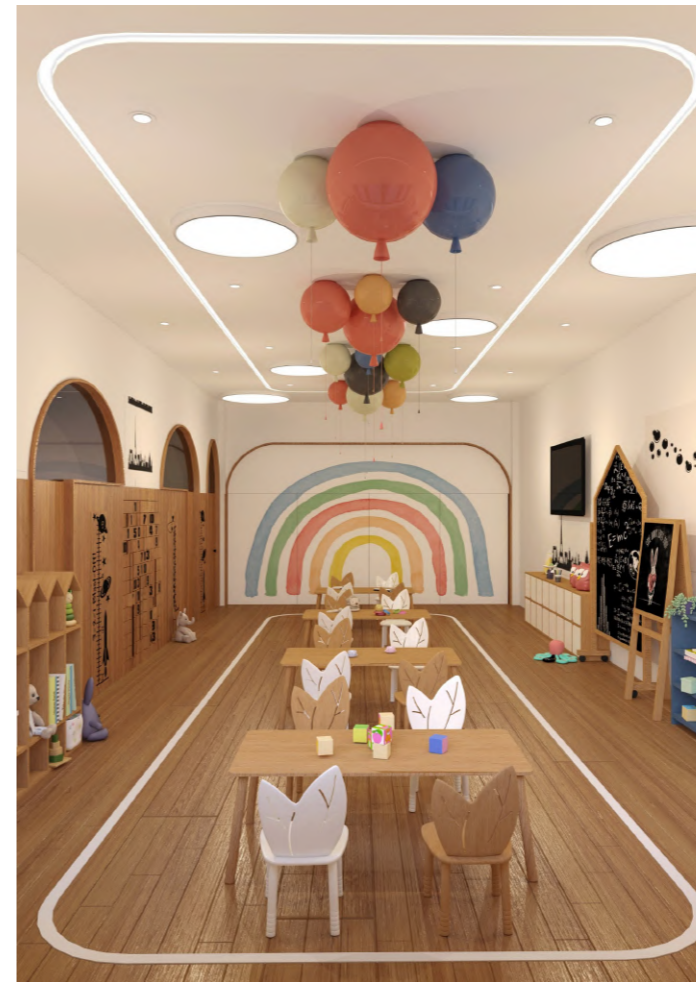


RESIDENCE - MASTER BEDROOM





RESIDENCE - DINING, STUDY



KINDERGARTEN - CONCEPTS





ENGLISH ROOM



ENGLISH ROOM





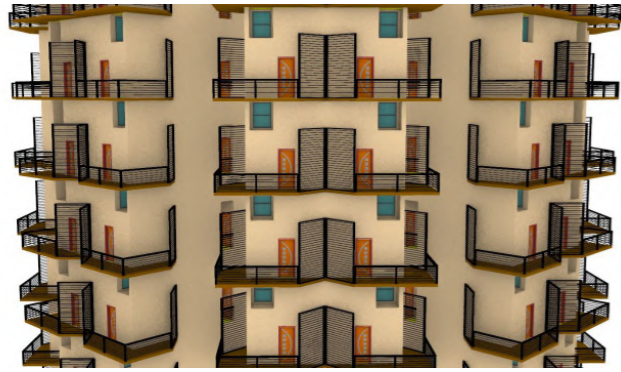
KINDERGARTEN



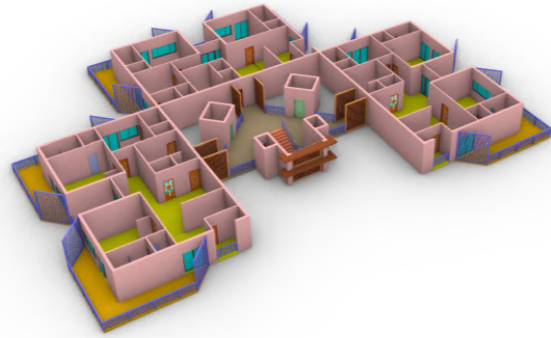
KINDERGARTEN



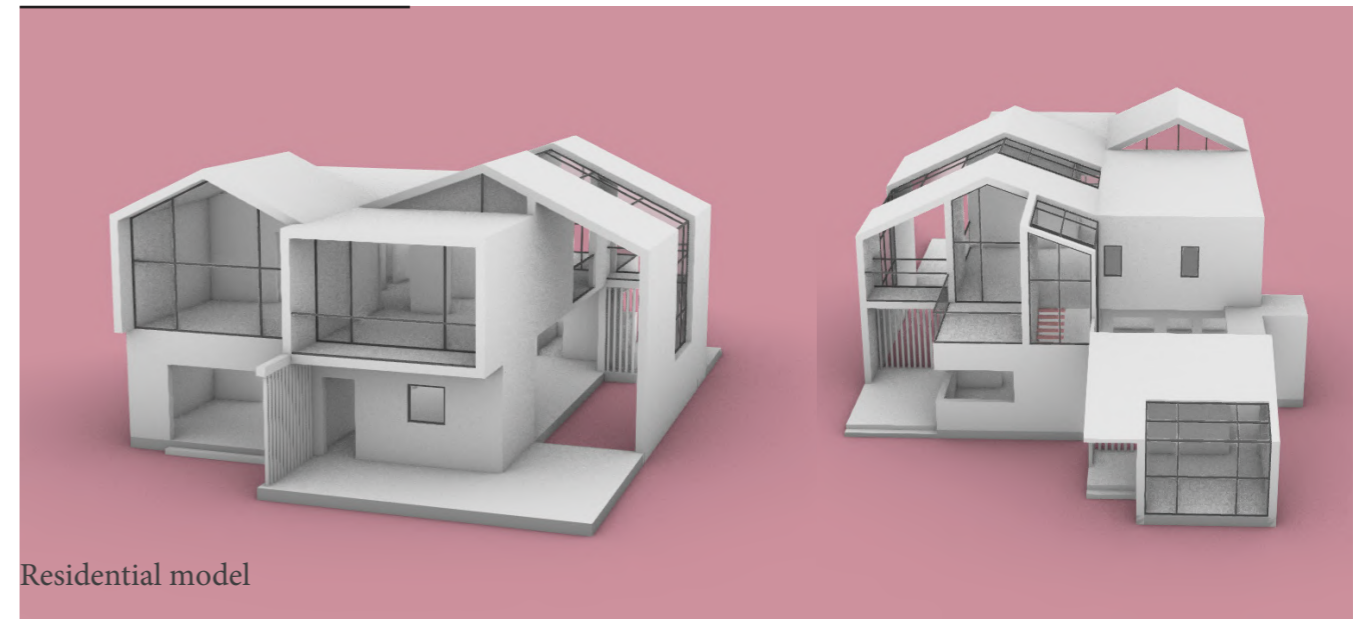
08 3D MODELLING



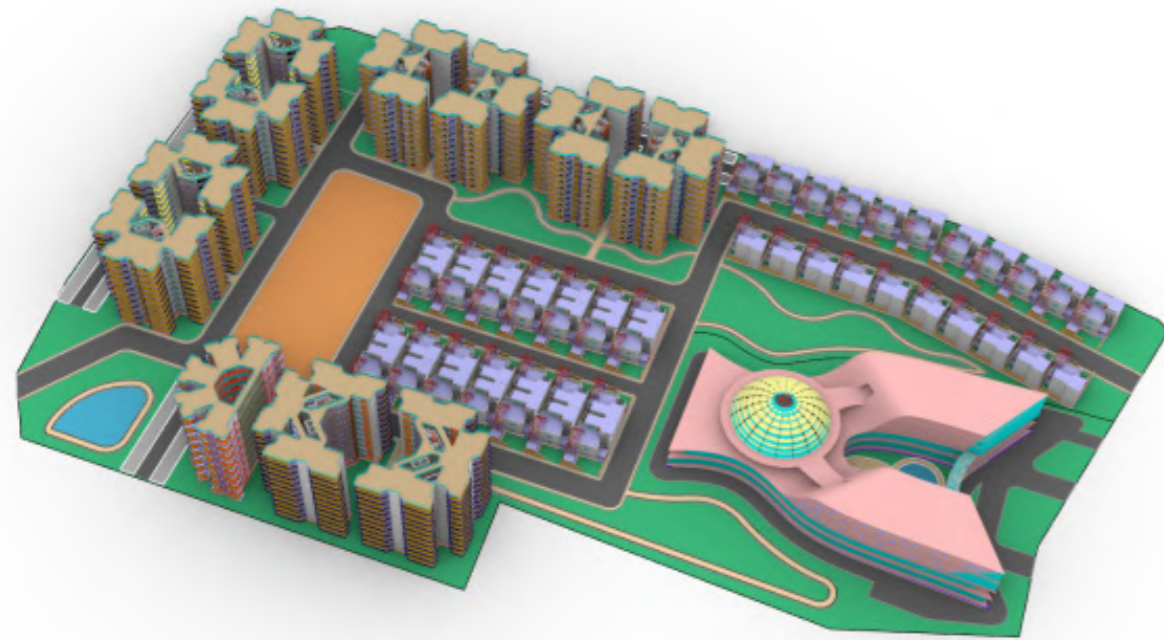
Apartment Model



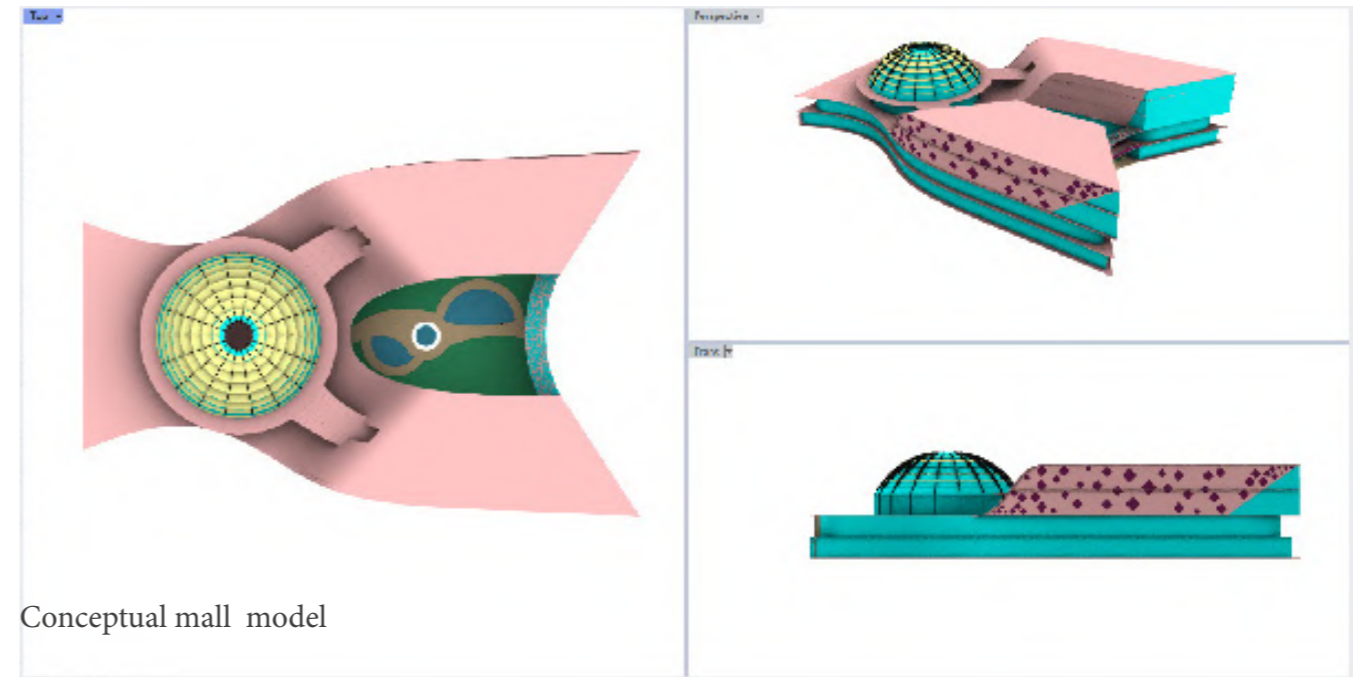
Apartment floor model



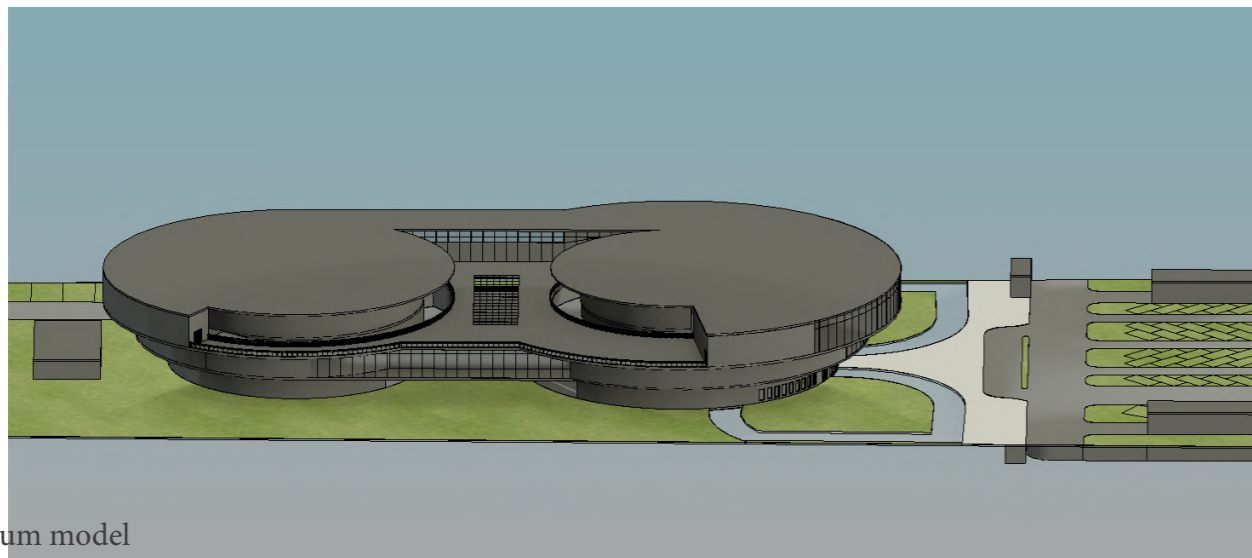
Residential model



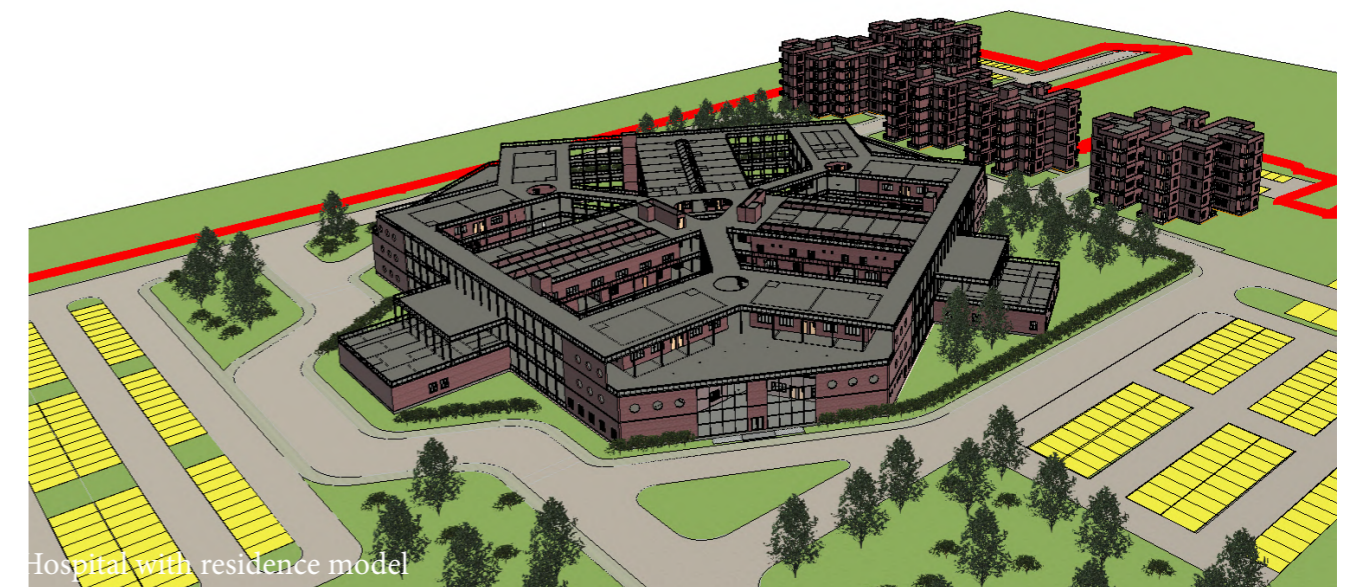
Community site model



Conceptual mall model



Museum model



Hospital with residence model

09 DIGITAL ILLUSTRATIONS





**THANK
YOU**

LOCHANI PUSHPA VEERAVALLI