

**B I M
P O R T
F O L I O**

LOCHANI PUSHPA VEERAVALLI

LOCHANI PUSHPA V

ARCHITECT

BIM ARCHITECT



CONTACT

✉ lochani@veeravalli.me

☎ +968 79461661
+91 7661876614

🌐 www.veeravalli.me

🌐 www.linkedin.com/in/lochani-pushpa-veeravalli/

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 BIM 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

SKILLS

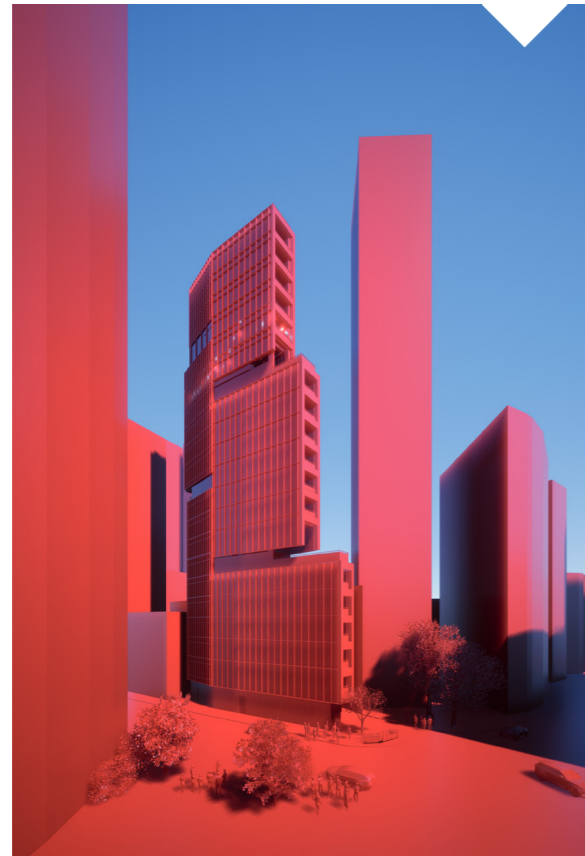
- Proficient in BIM software such as Revit, Navisworks, Dynamo and AutoCAD.
- Strong understanding of BIM methodologies, standards, and best practices.
- Knowledge of clash detection, coordination, and model management.
- Effective communication and collaboration within multidisciplinary teams.
- Ability to create high-quality 3D visualizations and renderings.
- Excellent problem-solving and analytical skills.
- Strong organizational and time management abilities.
- Data optimisation and organisation (Information Management)
- Presentation and documentation

CERTIFICATIONS

- **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

CONTENTS

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ONEISTOX CAPSTONE PROJECT

COLLABORATIVE PROJECT

Tools used- AutoCAD, Revit, Navisworks, Twinmotion

02

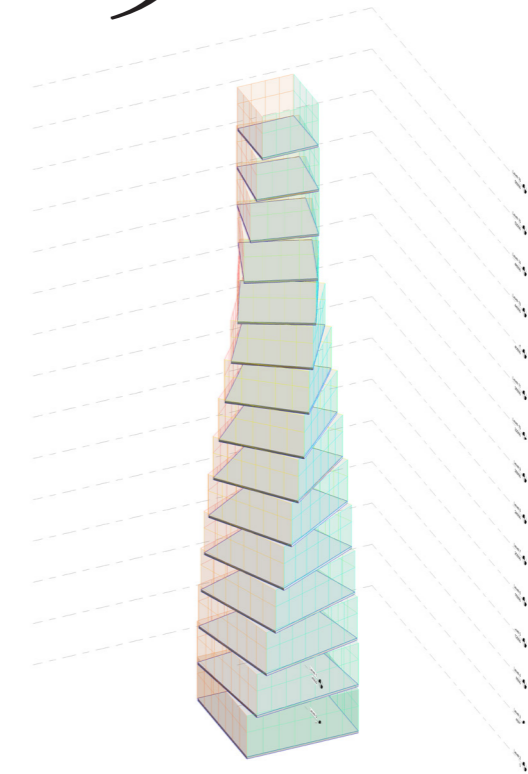


KADMAT ISLAND RESORT B.ARCH THESIS DESIGN

INDIVIDUAL PROJECT

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

03



ENVIRONMENTAL ANALYSIS - DYNAMO

INDIVIDUAL PROJECT

Tools used- Revit, Dynamo



OI

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"

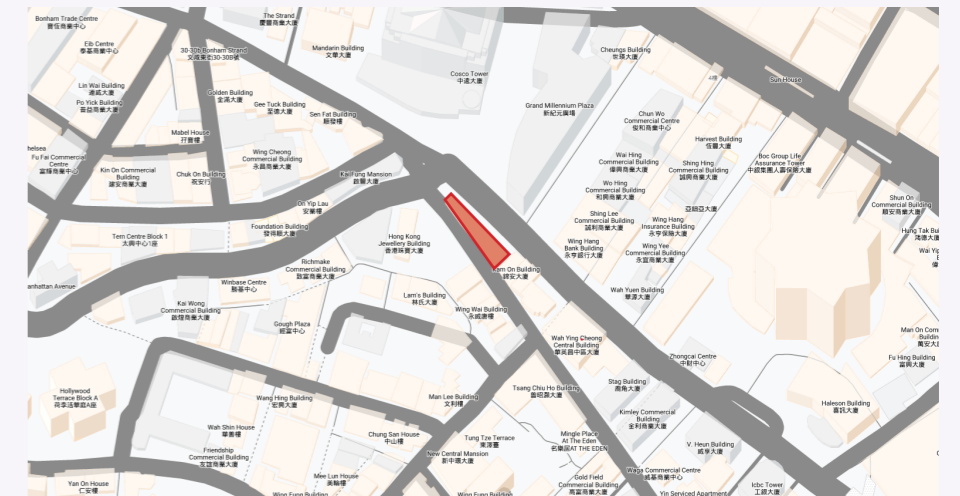
PROJECT BASE POINT

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

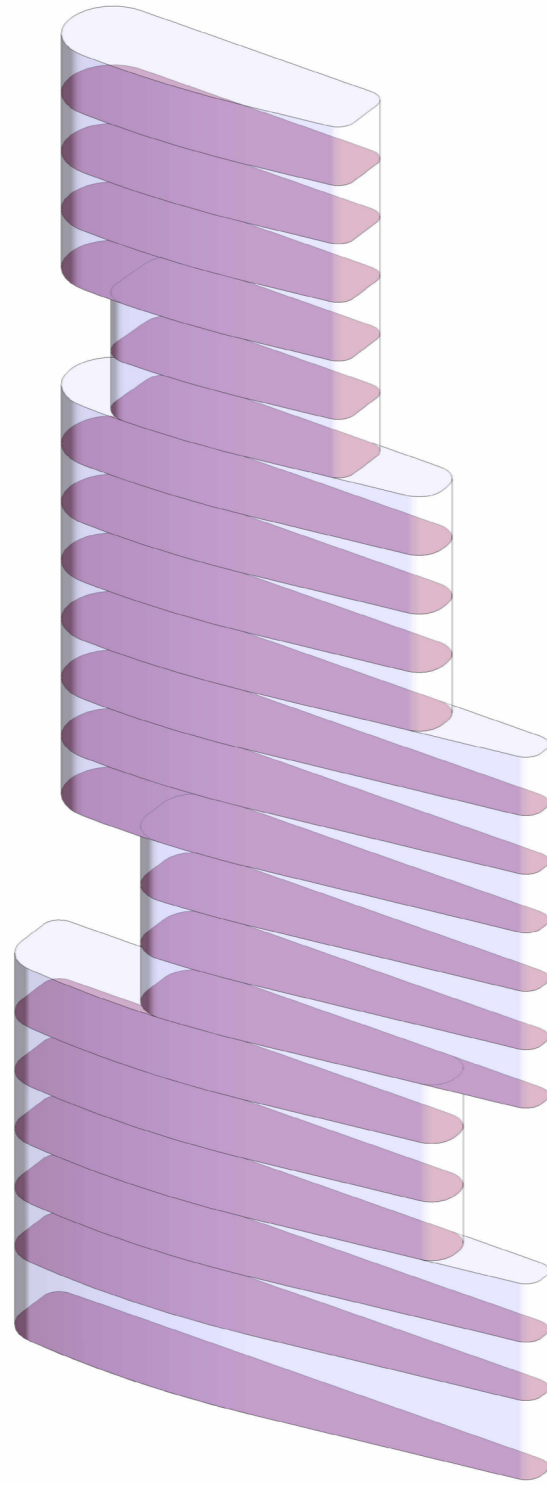
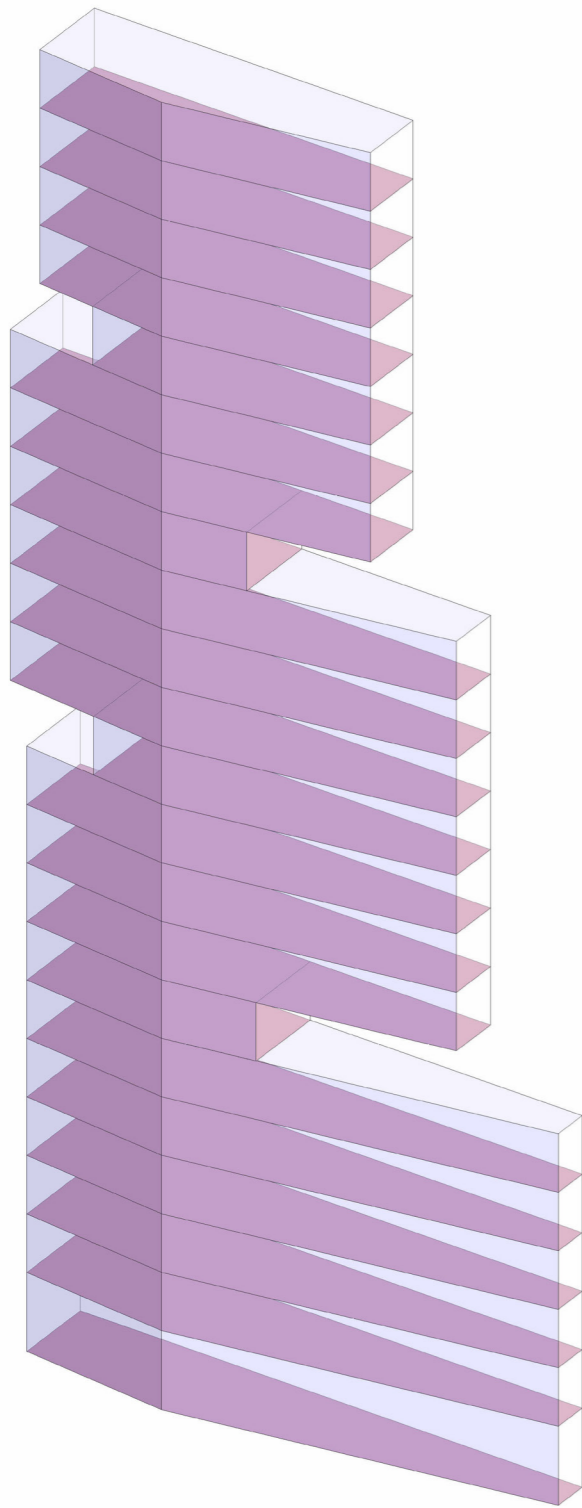
21 Storeys

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

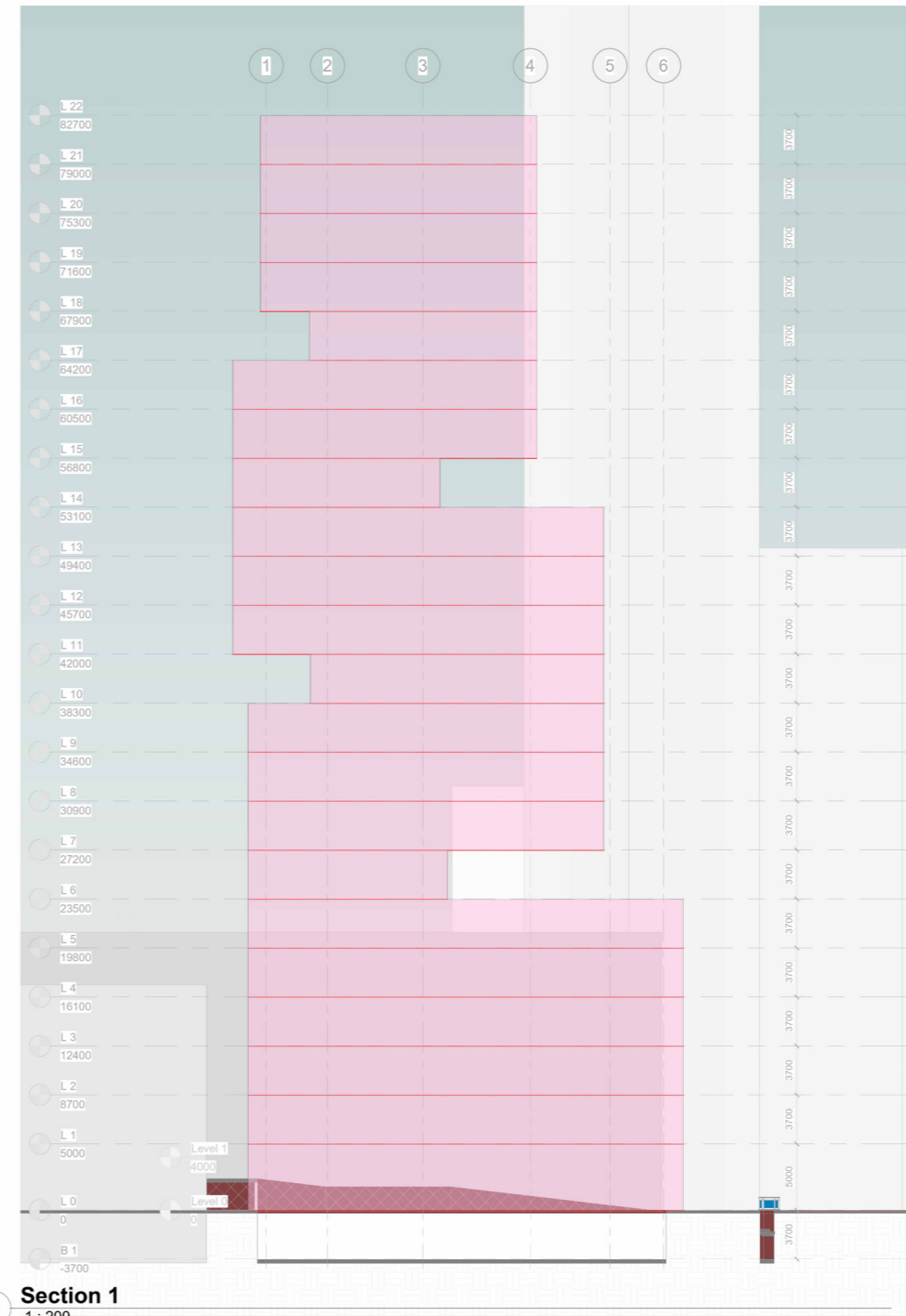
2 AXONOMETRIC VIEW OP2

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

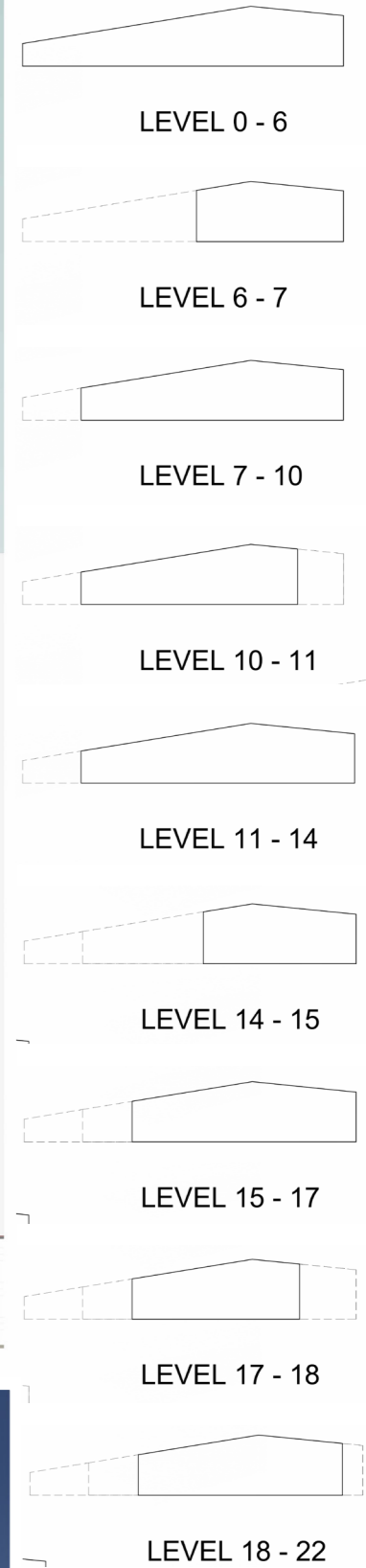
Mass Floor Schedule OP1	
Level	Floor Area
L 11	141 m ²
L 12	141 m ²
L 13	141 m ²
L 14	88 m ²
L 15	122 m ²
L 16	122 m ²
L 17	91 m ²
L 18	111 m ²
L 19	111 m ²
L 20	111 m ²
L 21	111 m ²
22	2800 m ²

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

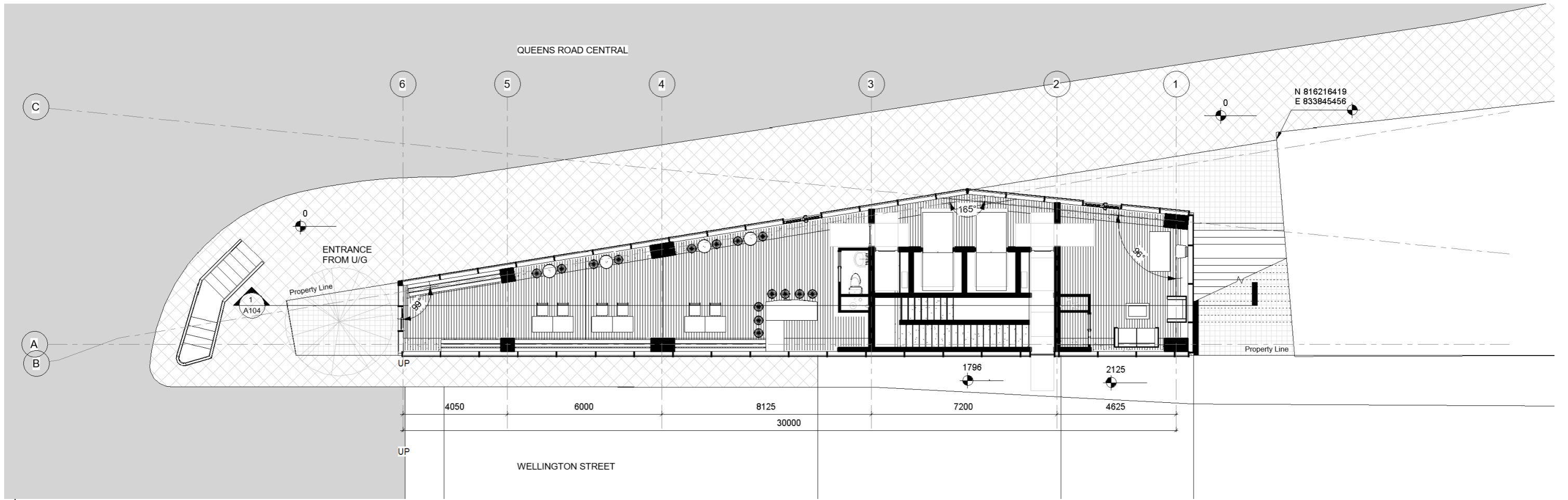
Mass Floor Schedule OP2	
Level	Floor Area
L 11	130 m ²
L 12	113 m ²
L 13	113 m ²
L 14	113 m ²
L 15	113 m ²
L 16	75 m ²
L 17	75 m ²
L 18	95 m ²
L 19	95 m ²
L 20	95 m ²
L 21	95 m ²
22	2517 m ²



1 Section 1
-4+200



CONCEPTUAL VIEW
PRIMARY MASSING OPTION



SITE PLAN

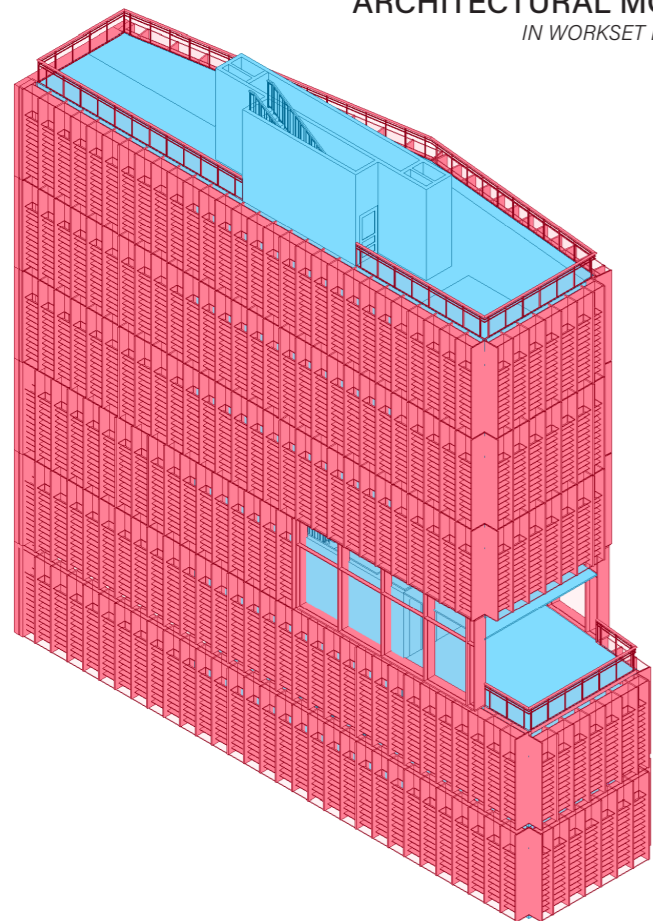
ZONE 3 COORDINATION

ARCHITECTURAL MODEL
IN WORKSET DISPLAY

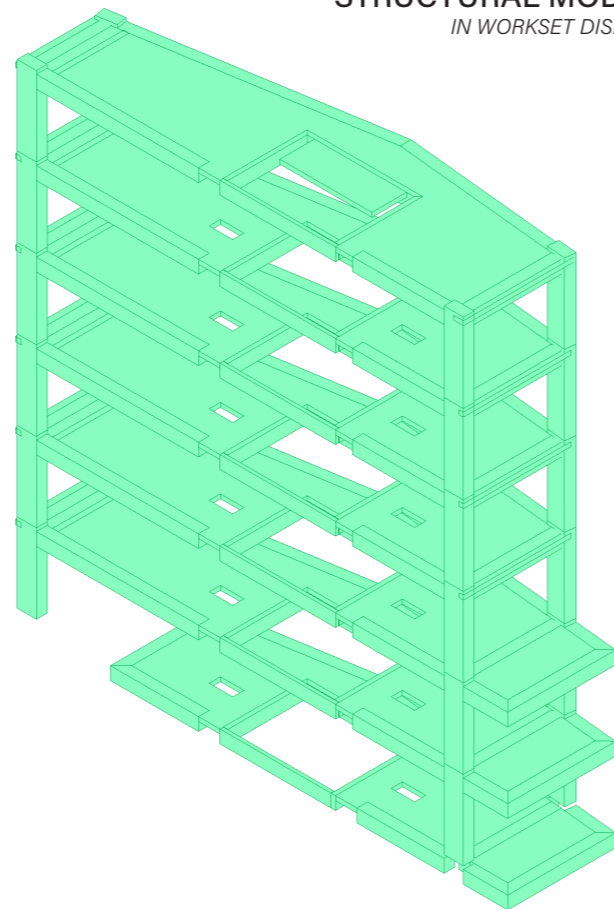
STRUCTURAL MODEL
IN WORKSET DISPLAY

MEP MODEL
IN WORKSET DISPLAY

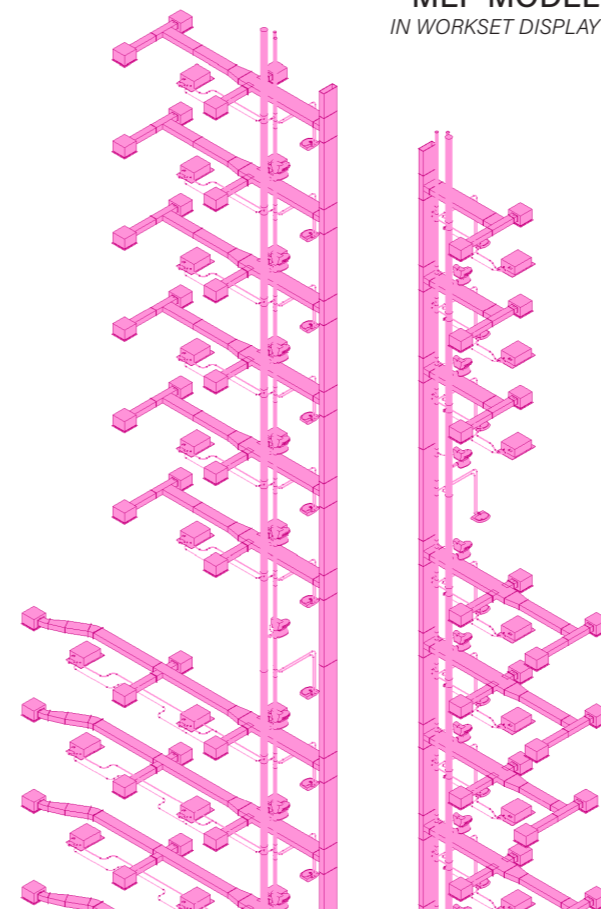
COORDINATION MODEL
IN WORKSET DISPLAY



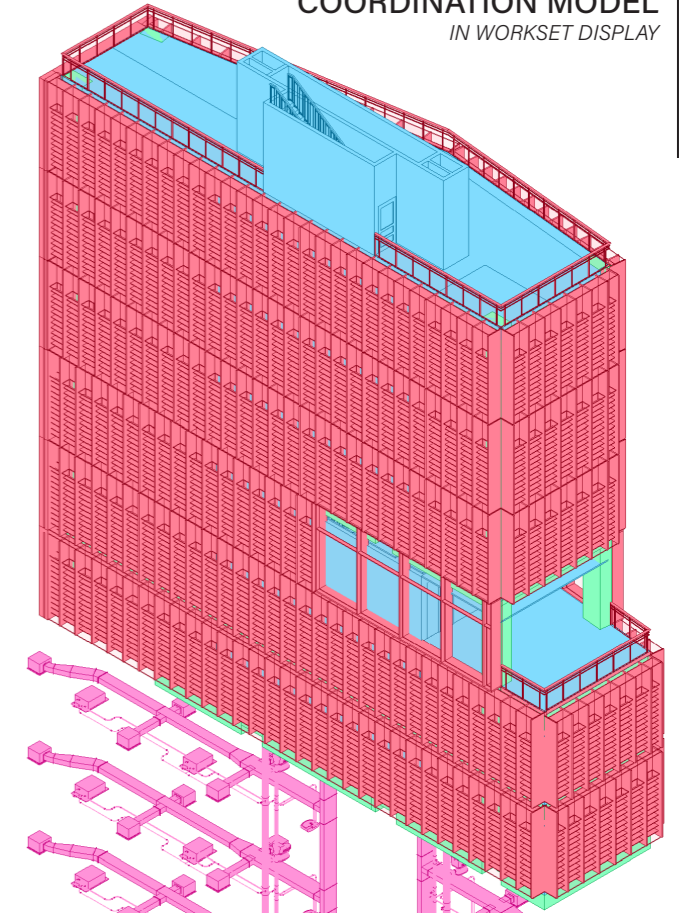
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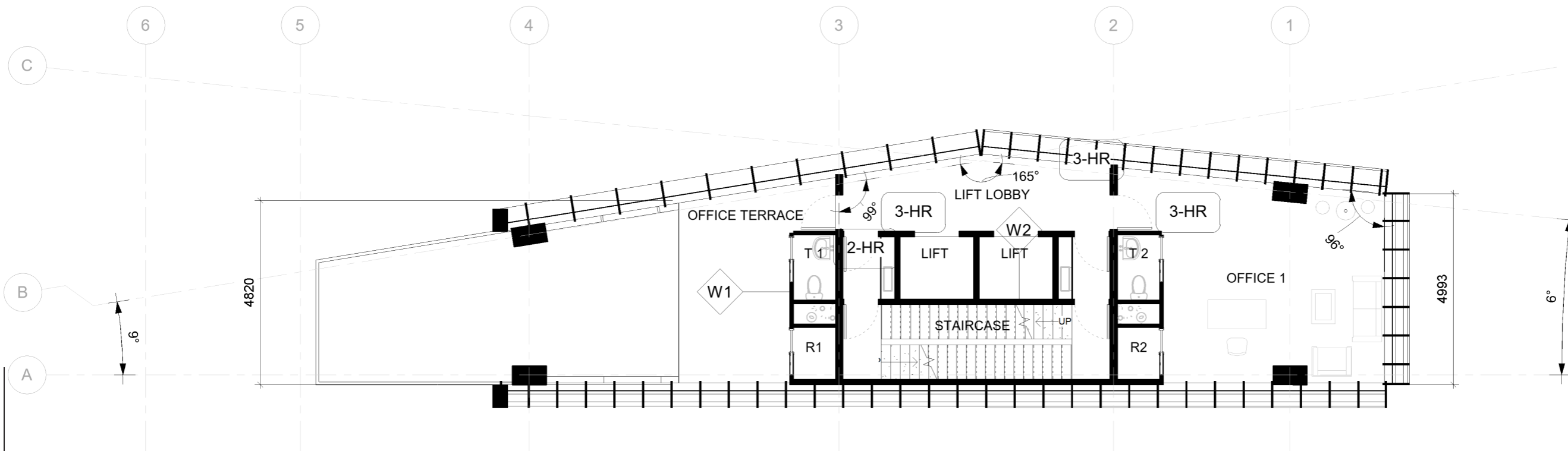


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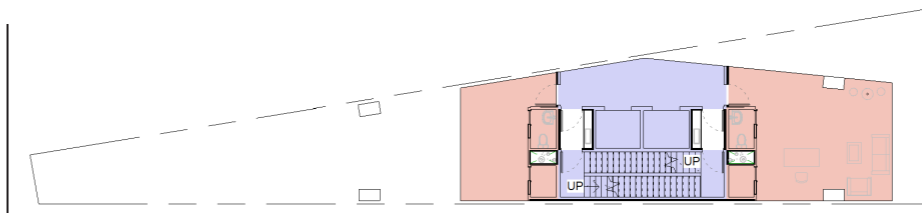




ATYPICAL FLOOR PLAN

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

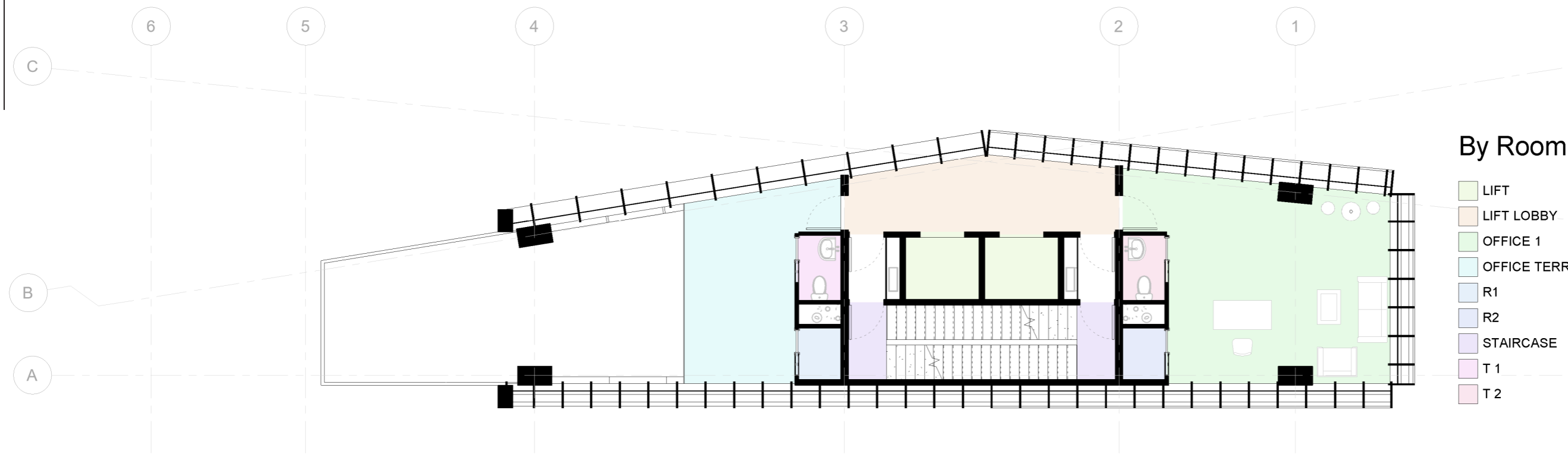
ATYPICAL AREA PLAN



ATYPICAL AREA SCHEME

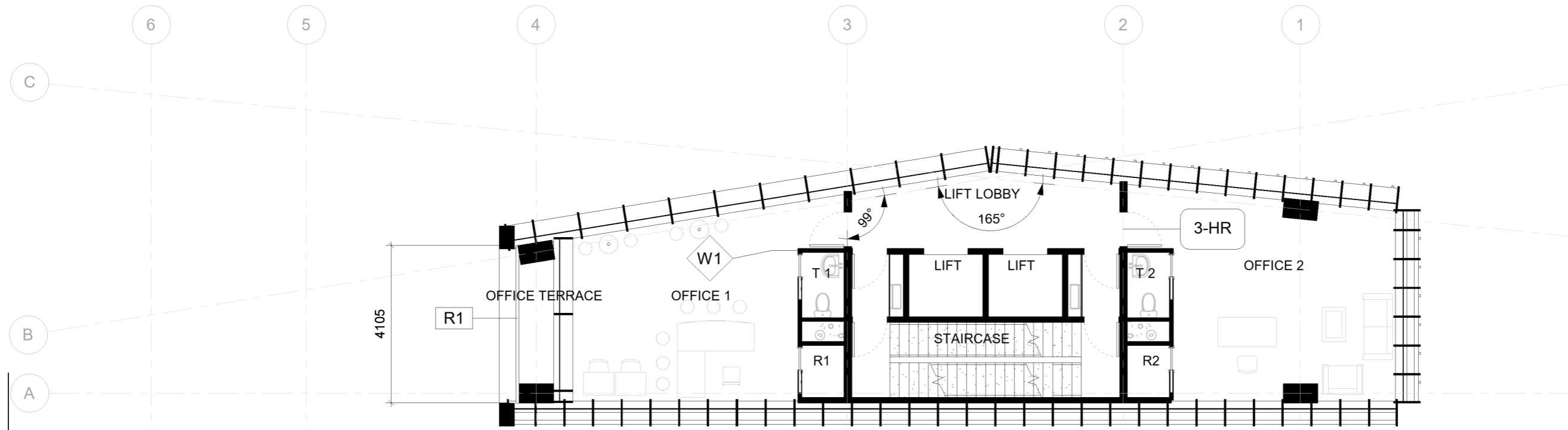
By Department Legend

- NON SELLABLE
- SELLABLE



By Room Name Legend

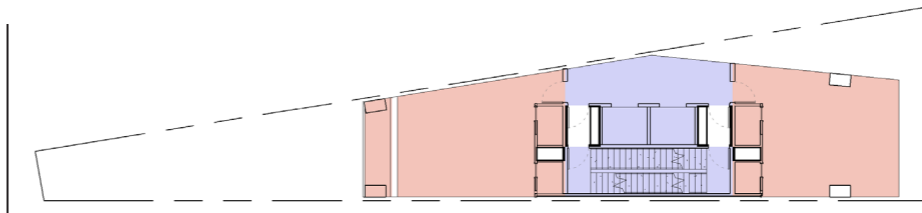
- LIFT
- LIFT LOBBY
- OFFICE 1
- OFFICE TERRACE
- R1
- R2
- STAIRCASE
- T 1
- T 2



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

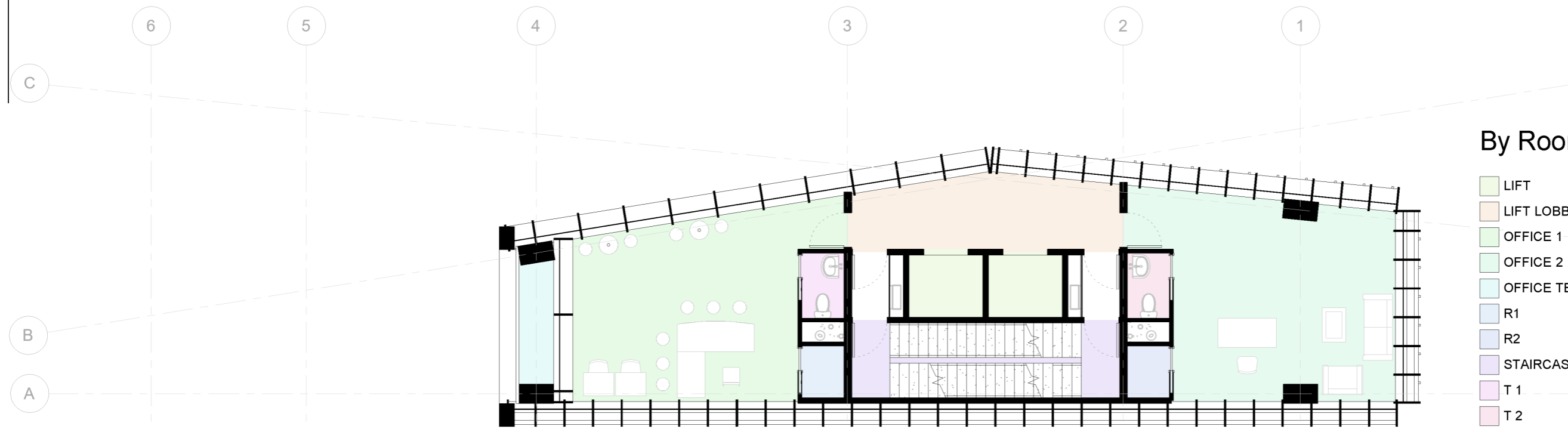
TYPICAL AREA PLAN



TYPICAL AREA SCHEME

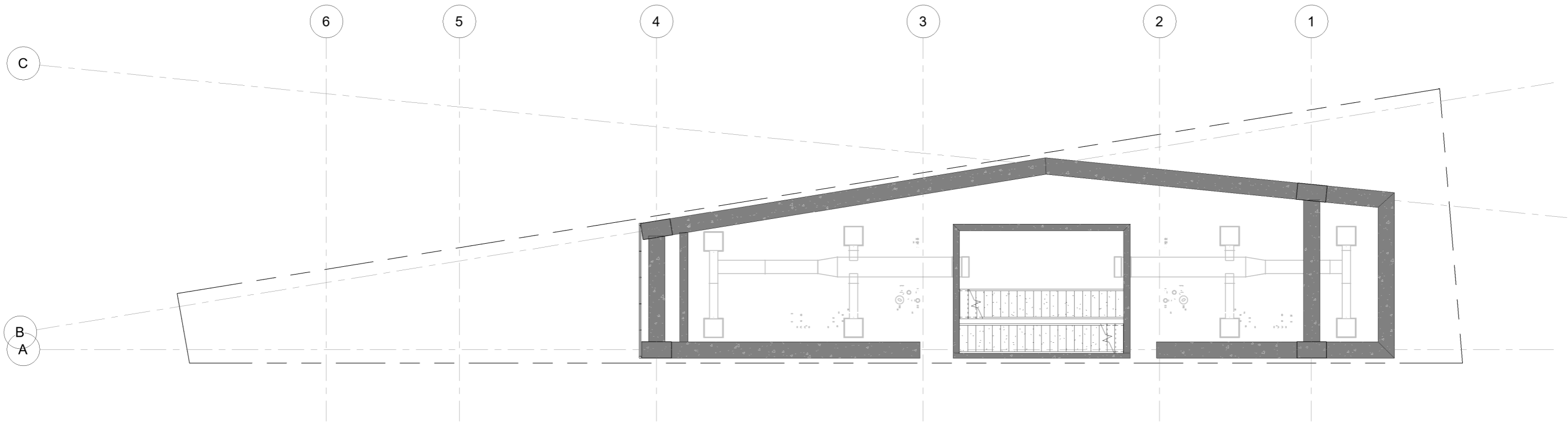
By Department Legend

- NON SELLABLE
- SELLABLE



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

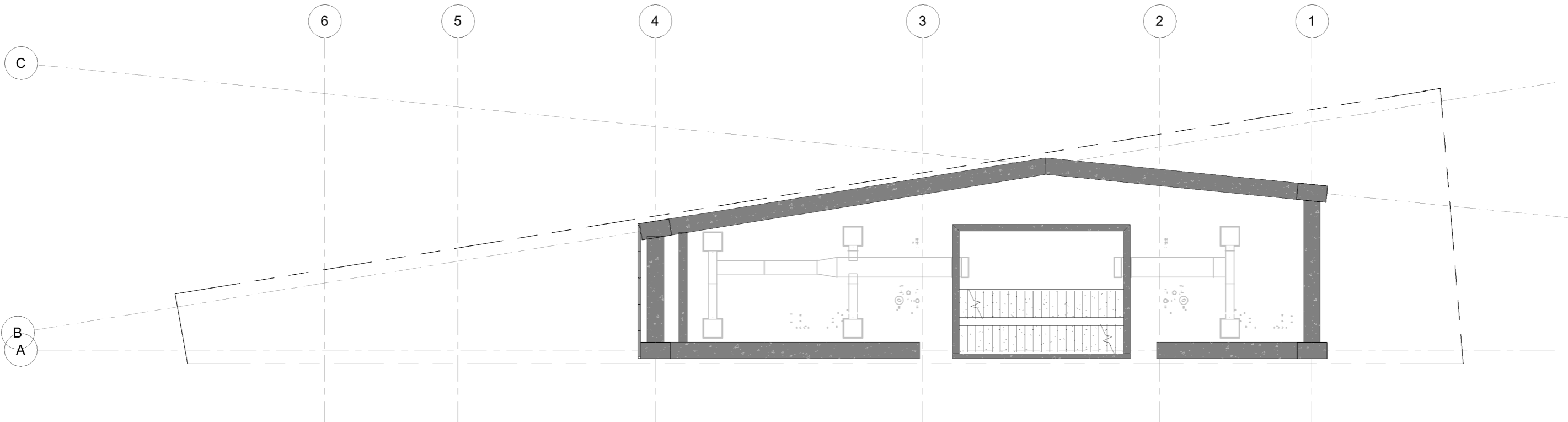
STRUCTURAL FLOOR SCHEDULE L16			
Type	Default Thickness	Area	Level
ONX_VVN_ARC_FLR_SS1_200MM	200	79 m ²	L 16

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

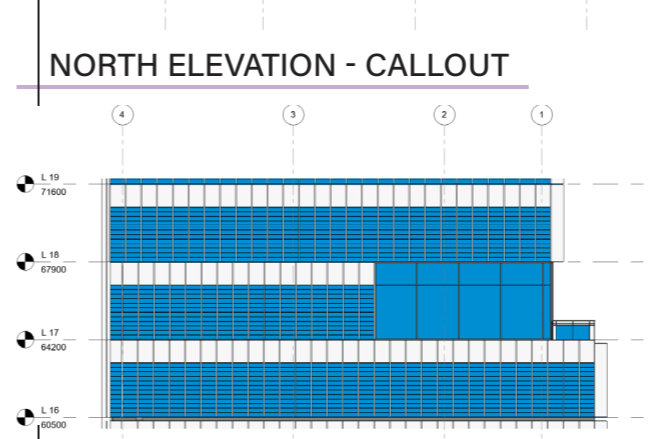
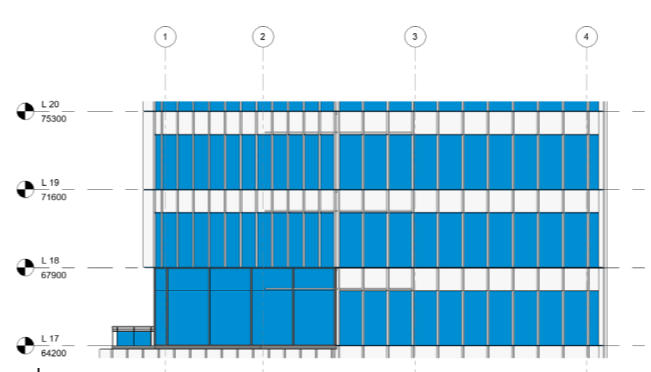
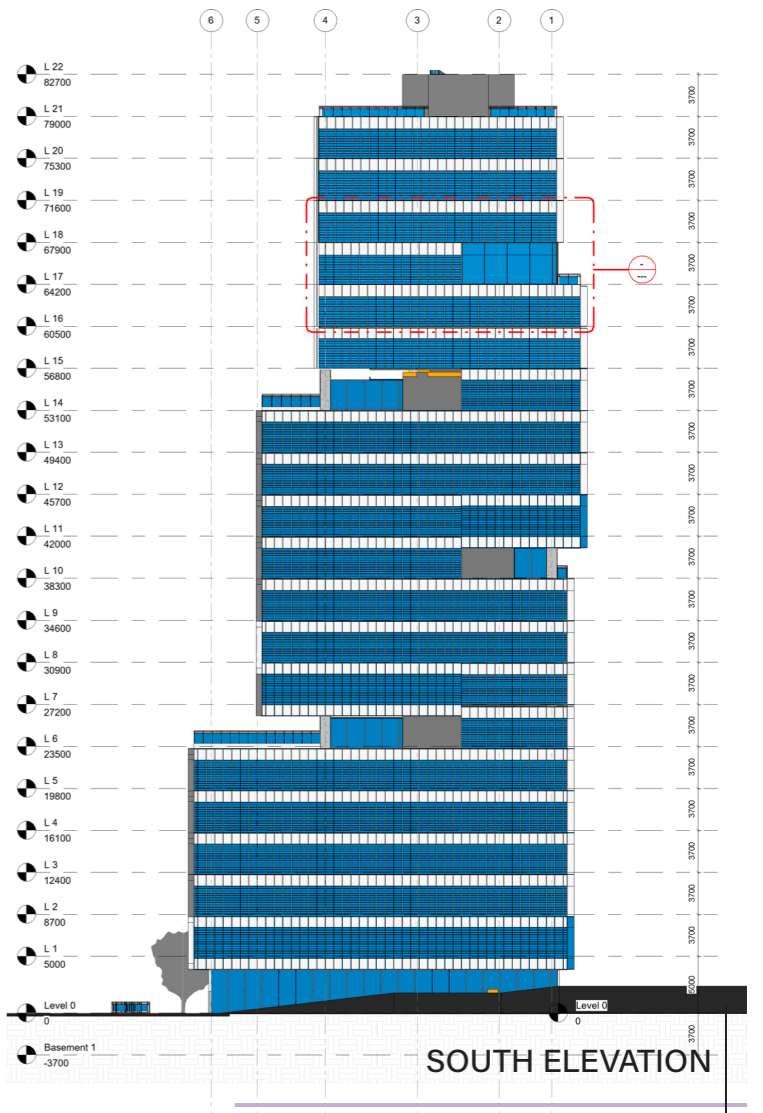
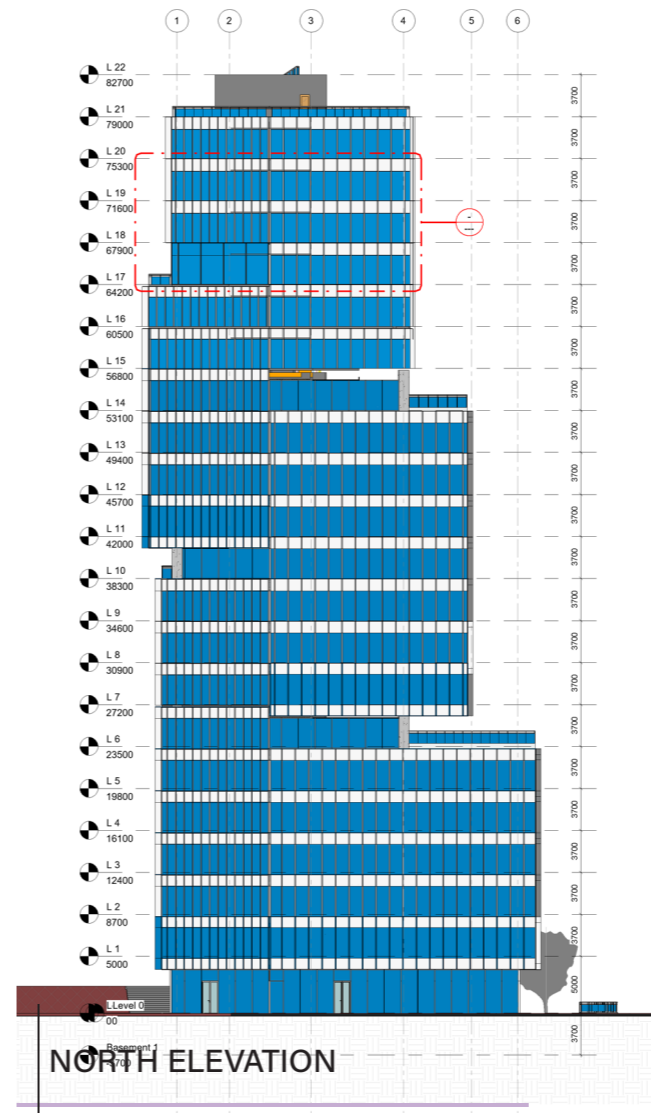
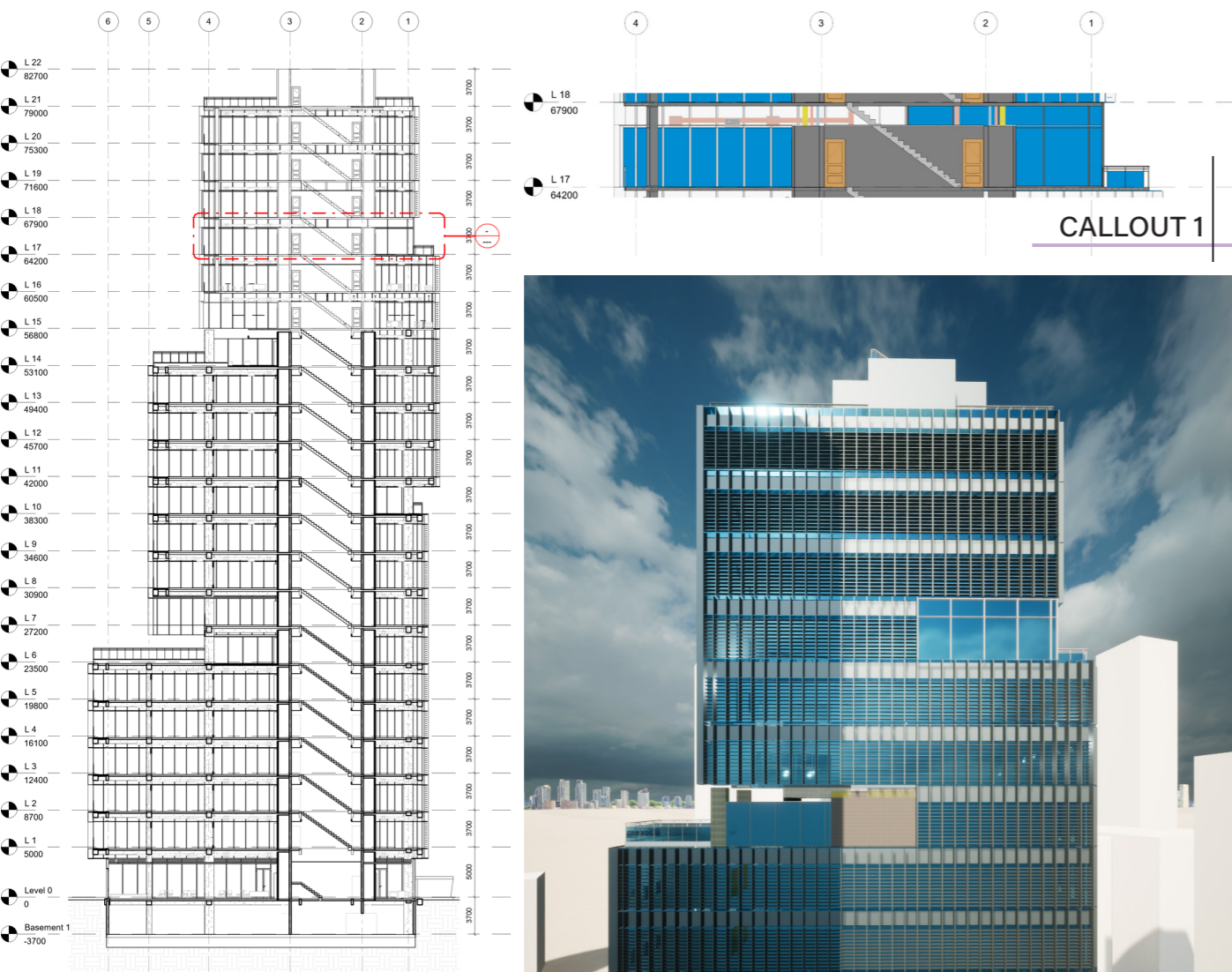
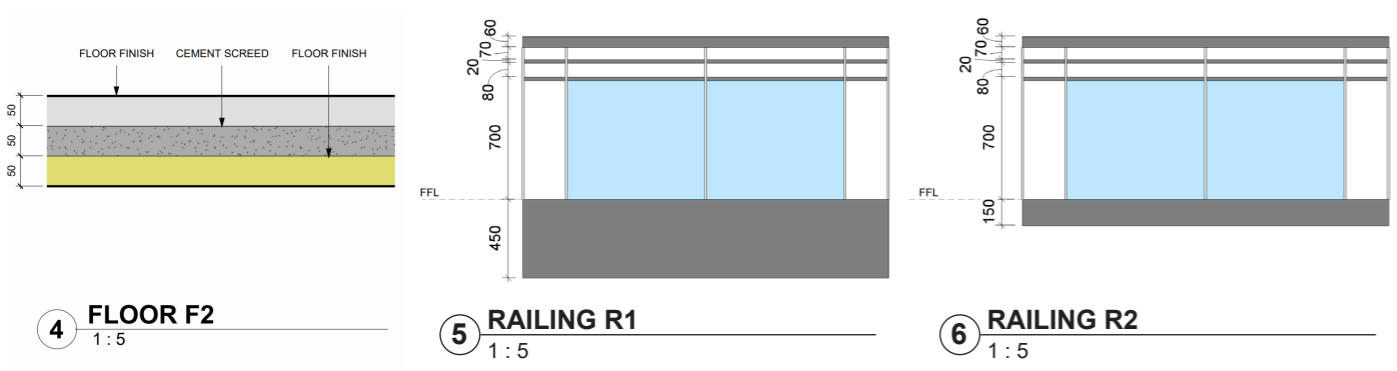
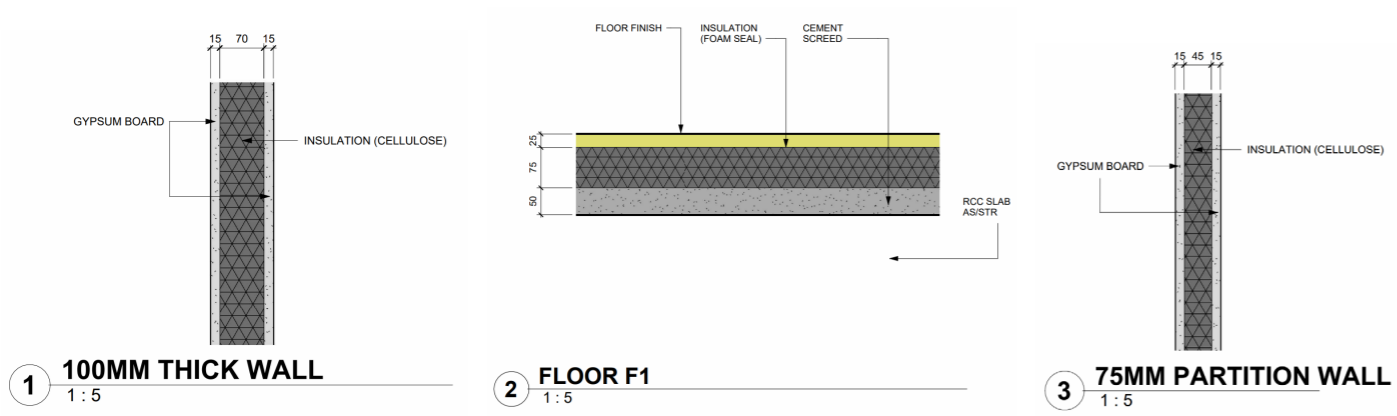
Structural Framing Schedule L19		
Reference Level	Type	Count
L 19	ONX_VVN_STR_B1-500X600MM	6
L 19	ONX_VVN_STR_B3-250X600MM	1
L 19	ONX_VVN_STR_B4_200X600MM	3
L 19	ONX_VVN_STR_B6_150X600MM	1

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 Detective

T01_[ARC]-Set01-[STR]-Set01

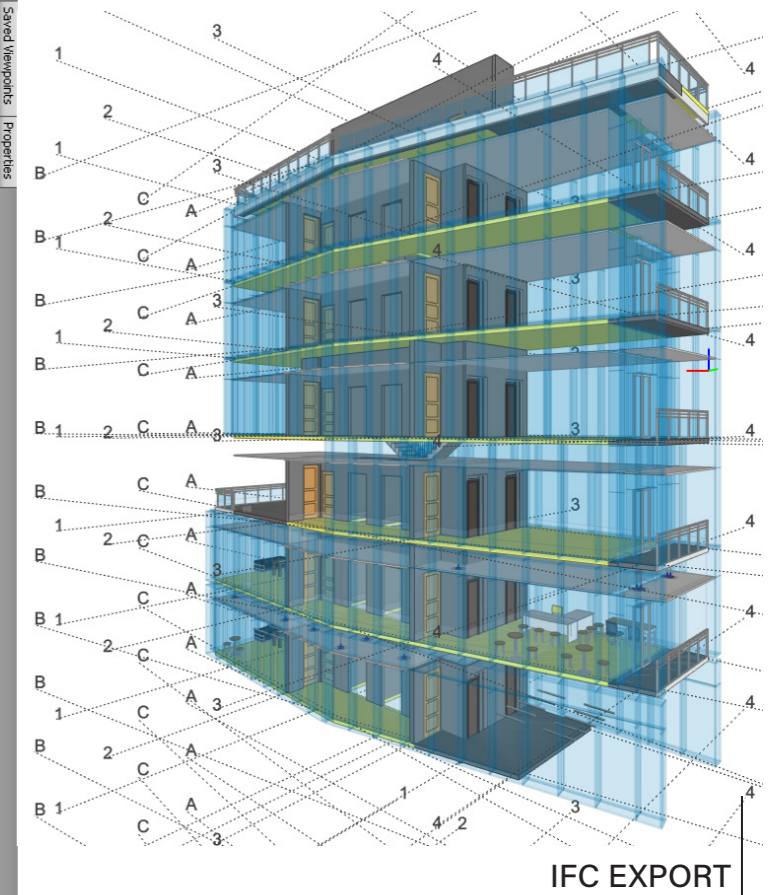
Last Run: 08 June 2023 01:48:06
Clashes - Total: 2 (Open: 1 Closed: 1)

Name	Status	Clashes	New	Active	Reviewed	Approved	Resolved
T01_[ARC]-Set01-[STR]-Set01	Done	2	0	1	0	0	1
T02_[ARC]-Set01-[MEP]-Set01	Done	129	0	75	0	0	54
T03_[STR]-Set01-[MEP]-Set01	Done	22	0	22	0	0	0
T04_[MEP]-Set01-[MEP]-Set01	Done	0	0	0	0	0	0

Settings: Type: Hard, Tolerance: 0.050 m, Link: None, Step (sec): 0.1, Composite Object Clashing:

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

02

KADMAT ISLAND RESORT

B.ARCH THESIS PROJECT *(Only selected parts of the project are included)*

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 %

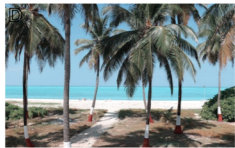
SETBACKS

1m on all sides

MAX BUILDING HEIGHT

12.5m (without stilts)

15.5m (with stilts)



PROPOSED BEDROOMS

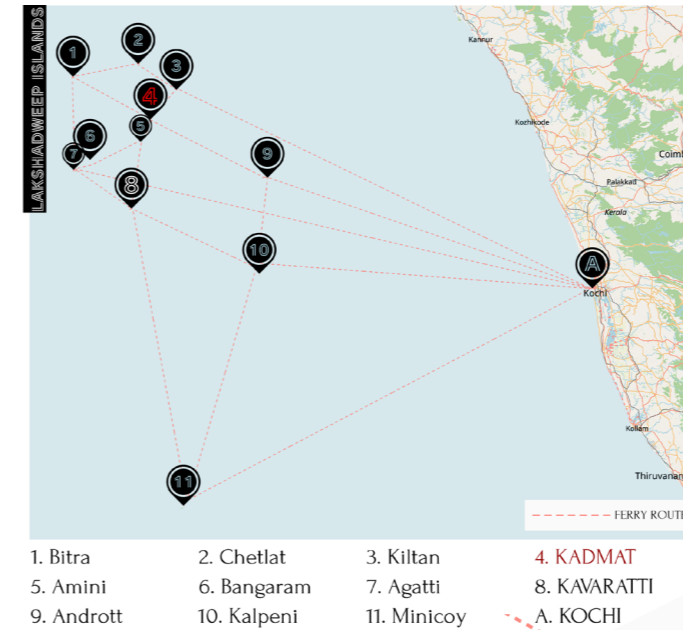
100 bedrooms (in water villas & beach villas)

BUILDING TYPE

Luxury island resort with services.

ADDITIONAL THINGS TO CONSIDER

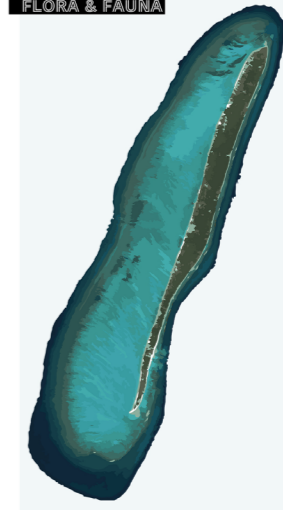
1. Promote conservation, and provide economic support for the island and provide a 'high value low volume' experience.
2. Promote the local culture through the design of spaces and create a harmony with the existing environment.



SITE ANALYSIS

UNDERSTANDING THE SITE CONTEXT

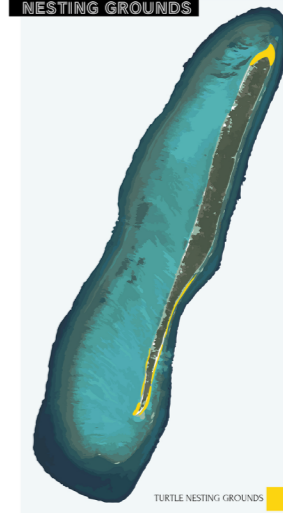
FLORA & FAUNA



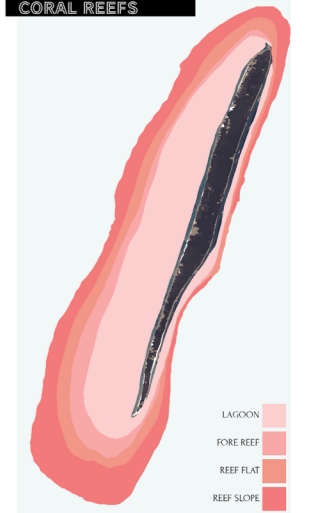
SEAGRASS HABITAT



NESTING GROUNDS



CORAL REEFS



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.

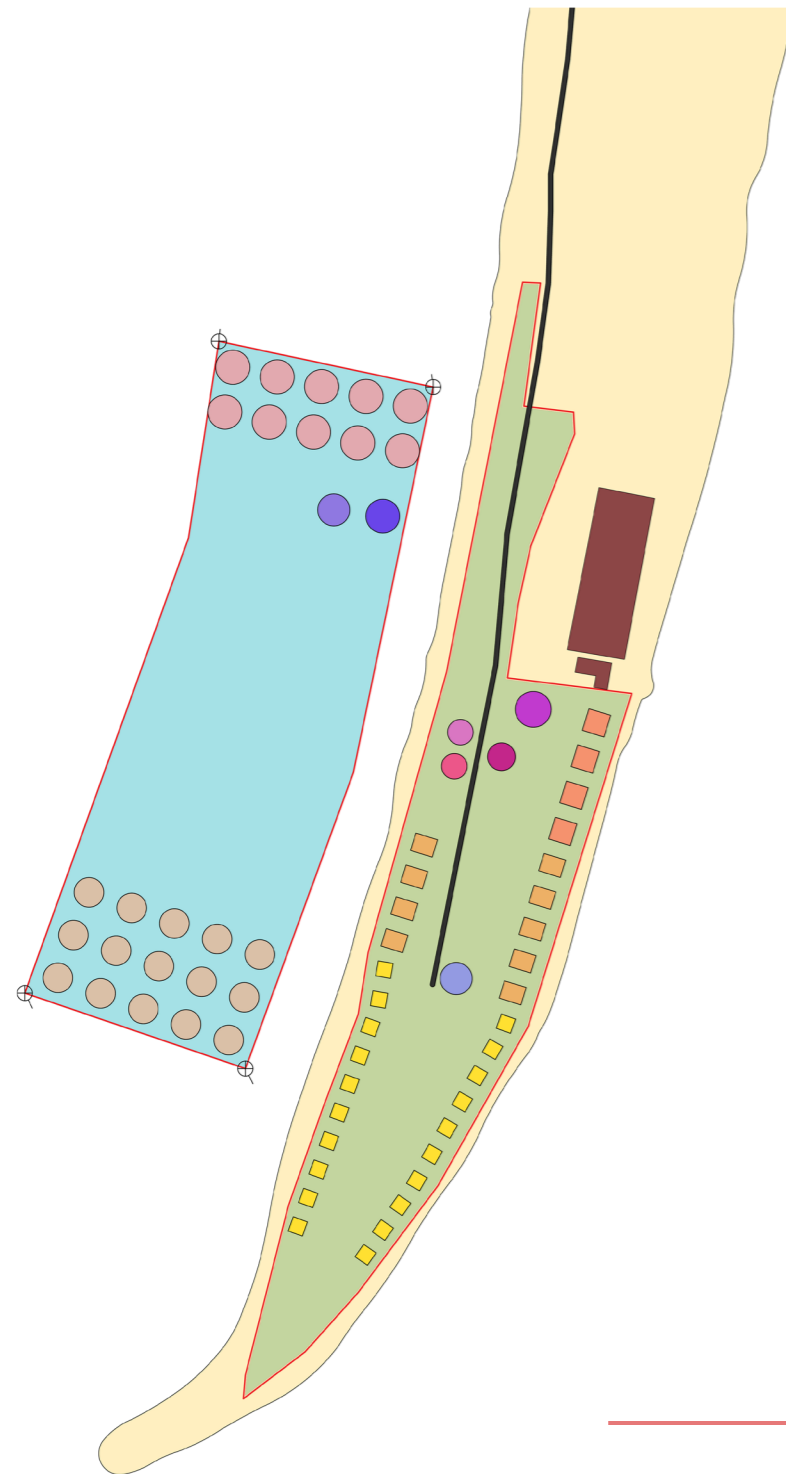
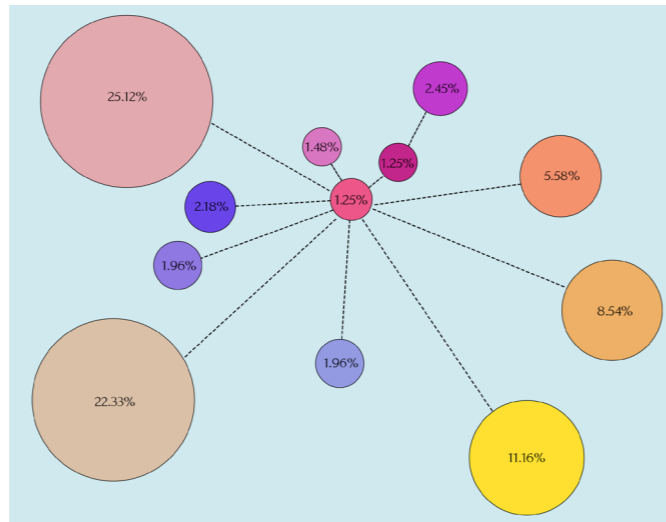
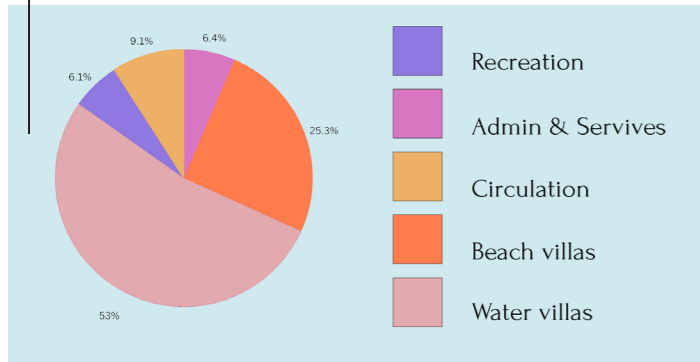
OPPORTUNITIES

- 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.

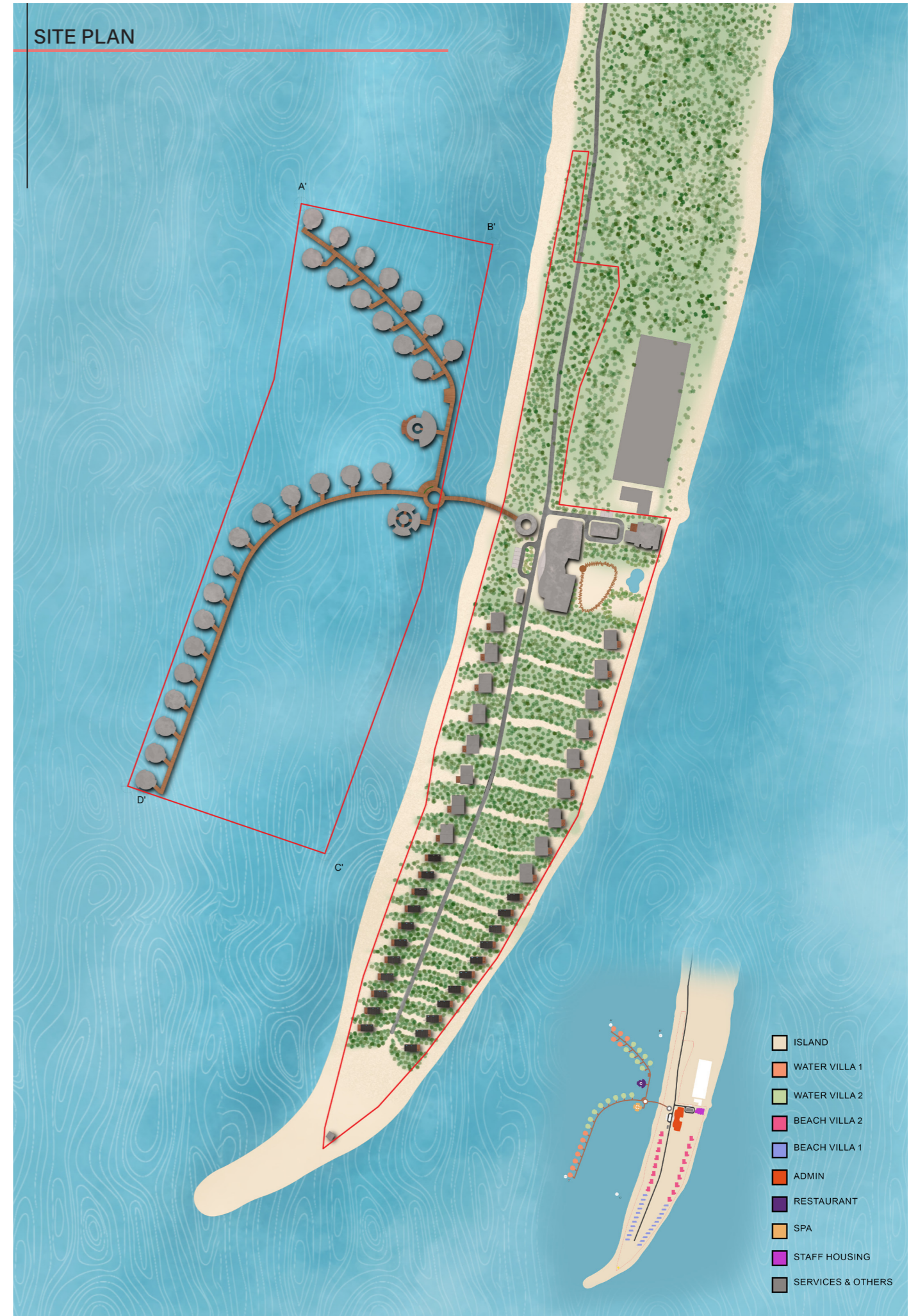
ACTIVITY ZONING



- 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

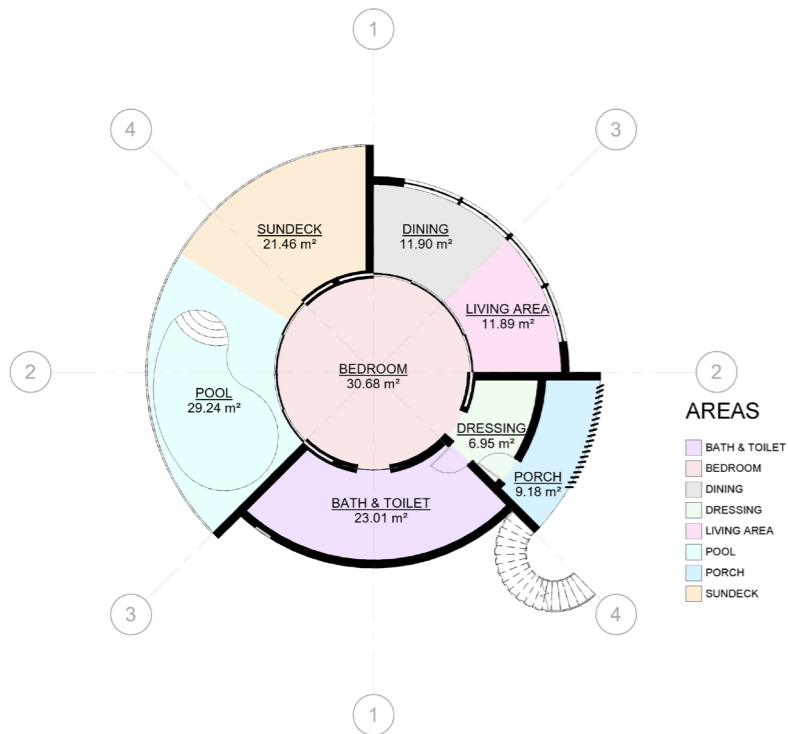
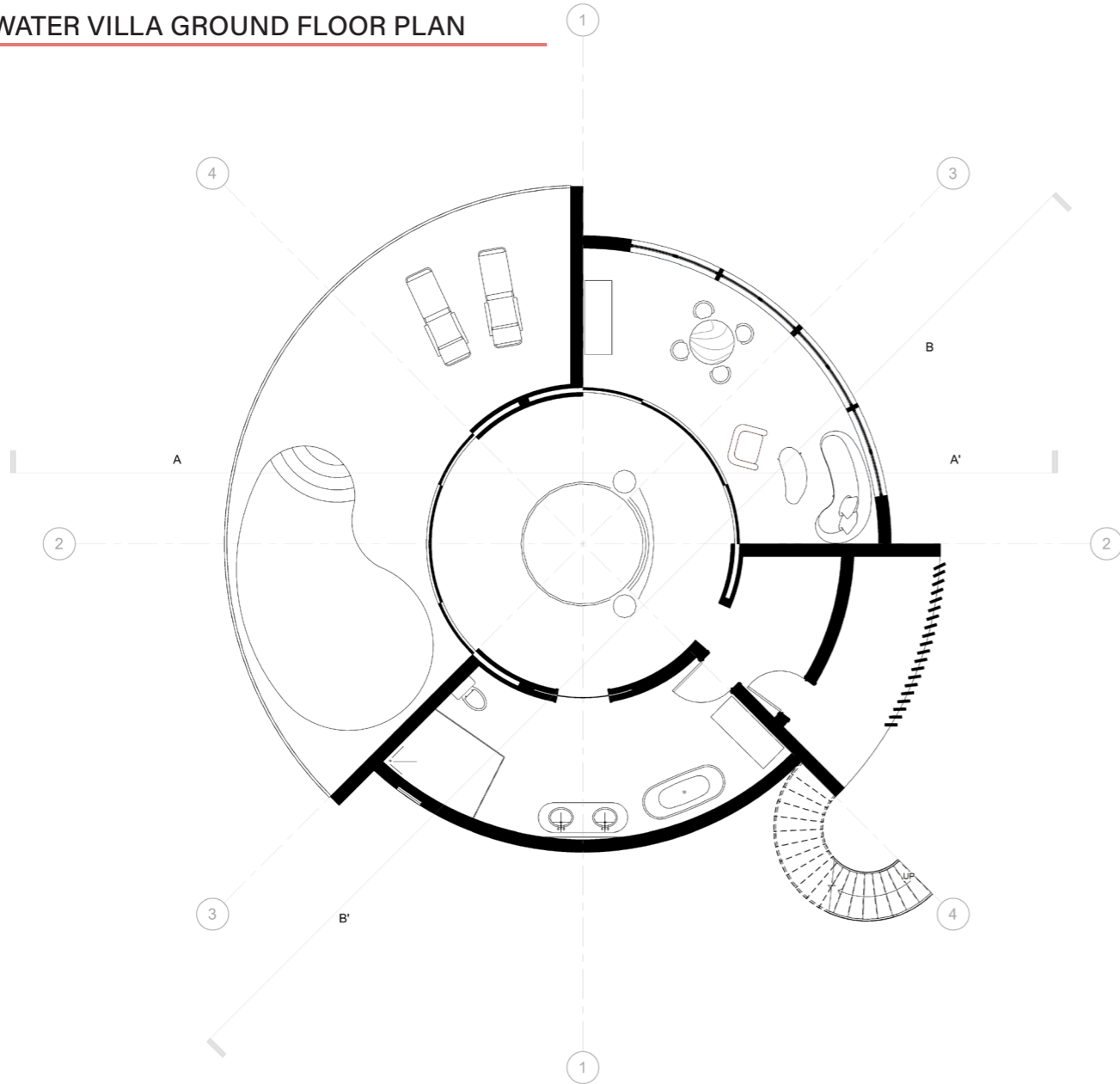
CONCEPTUAL BLOCK ZONING

SITE PLAN



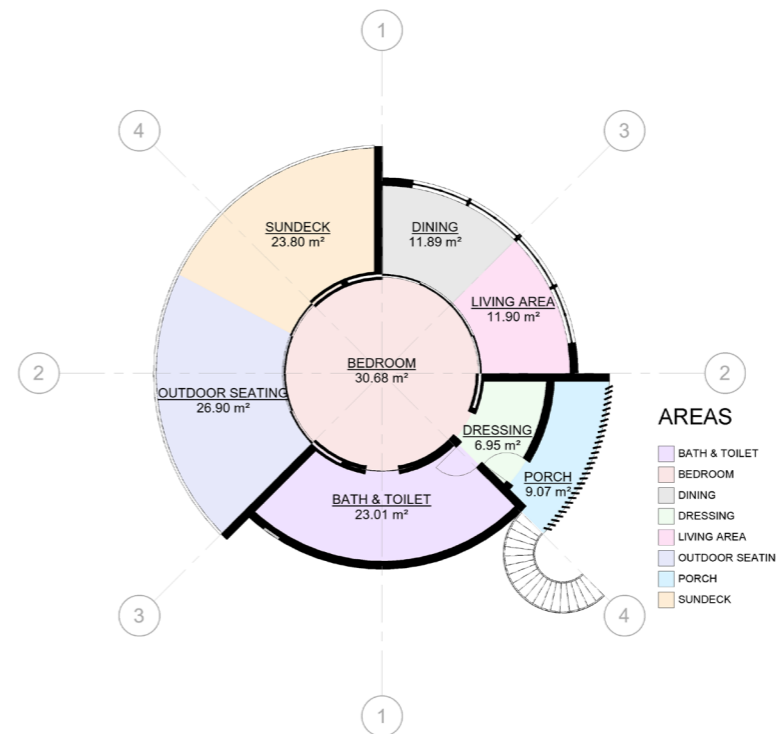
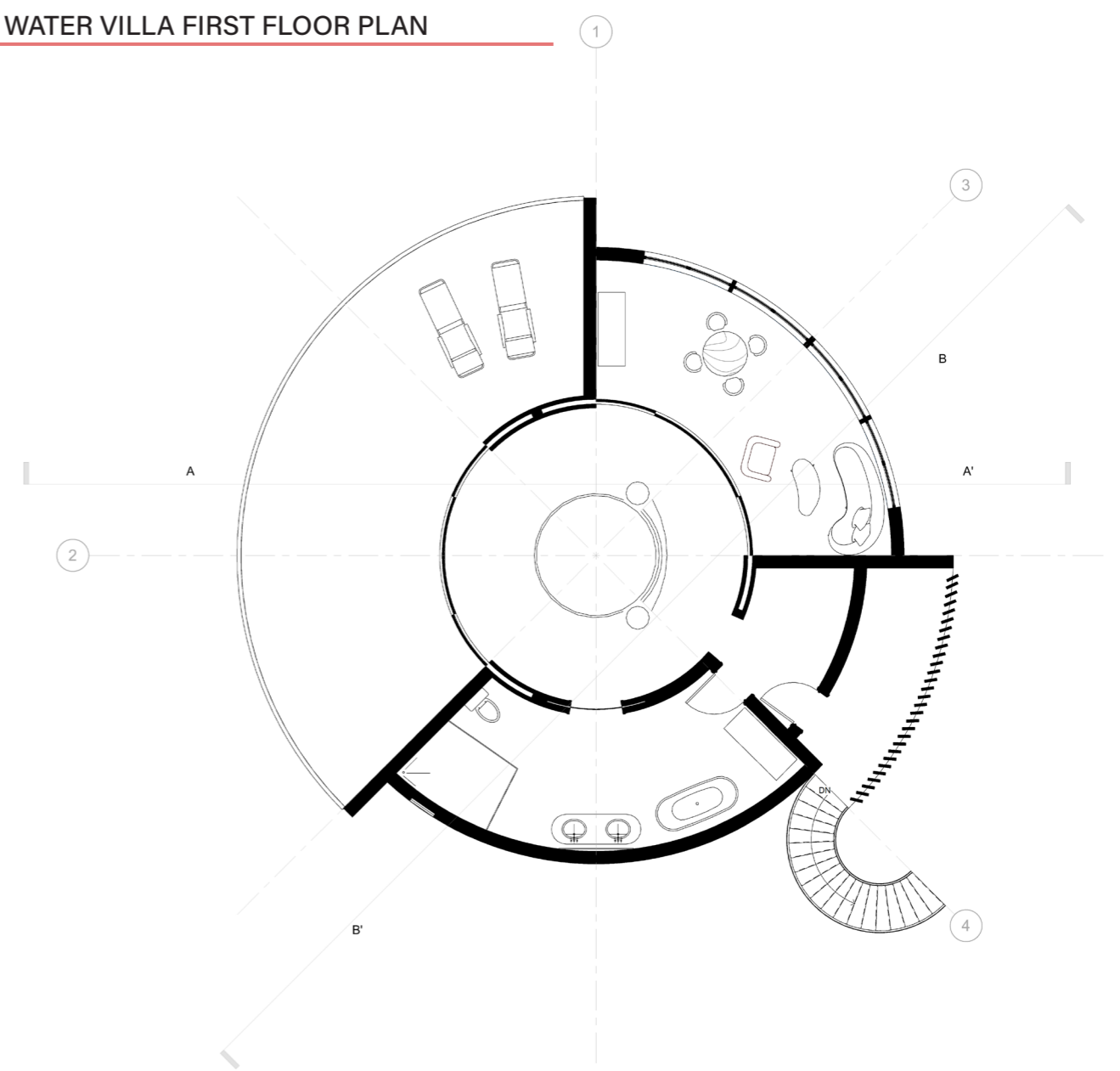
- ISLAND
- WATER VILLA 1
- WATER VILLA 2
- BEACH VILLA 2
- BEACH VILLA 1
- ADMIN
- RESTAURANT
- SPA
- STAFF HOUSING
- SERVICES & OTHERS

WATER VILLA GROUND FLOOR PLAN



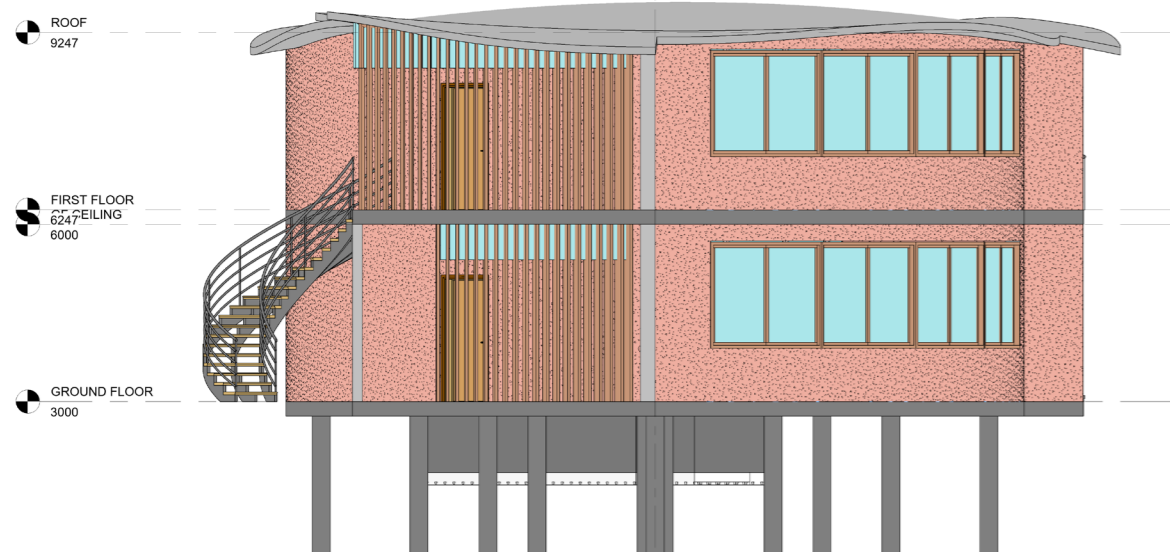
Number	Name	Level	Area
1	BEDROOM	GROUND FLOOR	31 m ²
2	DINING	GROUND FLOOR	12 m ²
3	BATH & TOILET	GROUND FLOOR	23 m ²
4	DRESSING	GROUND FLOOR	7 m ²
5	PORCH	GROUND FLOOR	9 m ²
6	SUNDECK	GROUND FLOOR	21 m ²
7	LIVING AREA	GROUND FLOOR	12 m ²
8	POOL	GROUND FLOOR	29 m ²
			144 m ²

WATER VILLA FIRST FLOOR PLAN



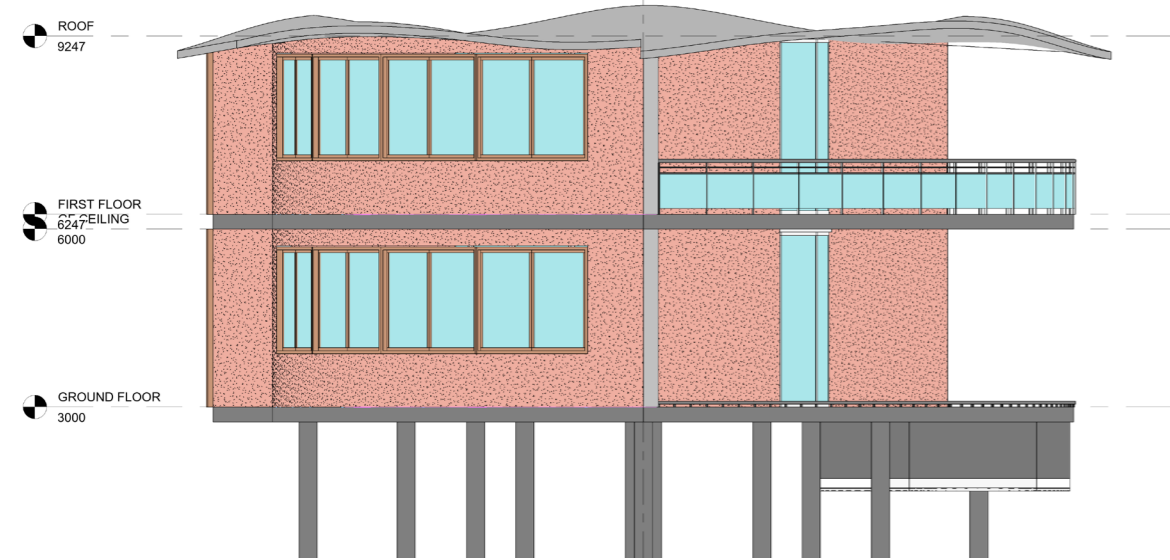
Number	Name	Level	Area
9	SUNDECK	FIRST FLOOR	24 m ²
10	OUTDOOR SEATING	FIRST FLOOR	27 m ²
11	BEDROOM	FIRST FLOOR	31 m ²
12	DINING	FIRST FLOOR	12 m ²
13	LIVING AREA	FIRST FLOOR	12 m ²
14	DRESSING	FIRST FLOOR	7 m ²
15	PORCH	FIRST FLOOR	9 m ²
16	BATH & TOILET	FIRST FLOOR	23 m ²
			144 m ²

2



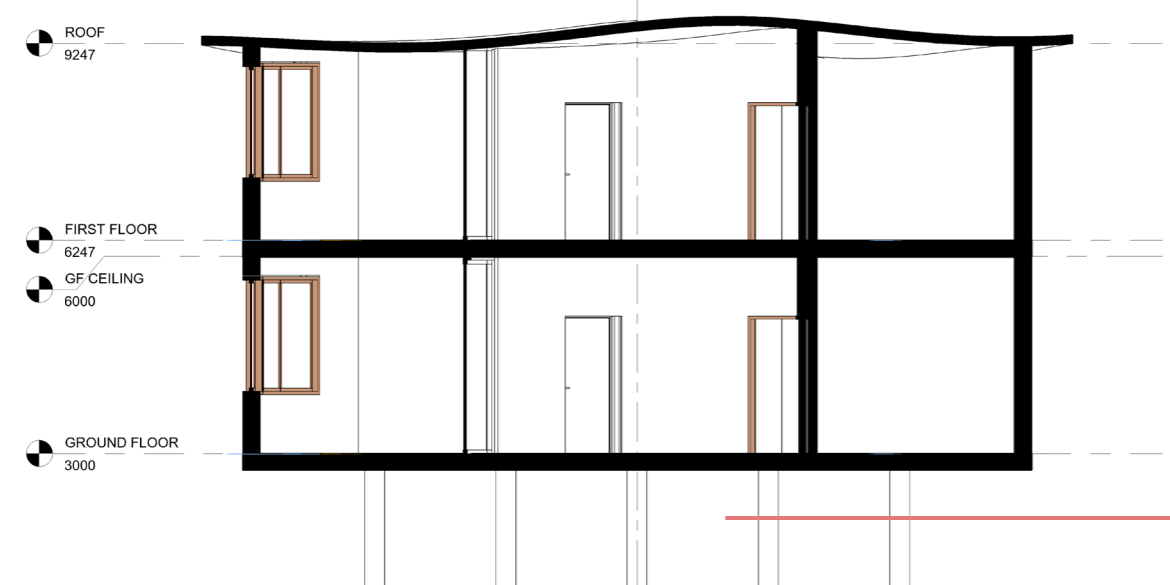
EAST ELEVATION

1

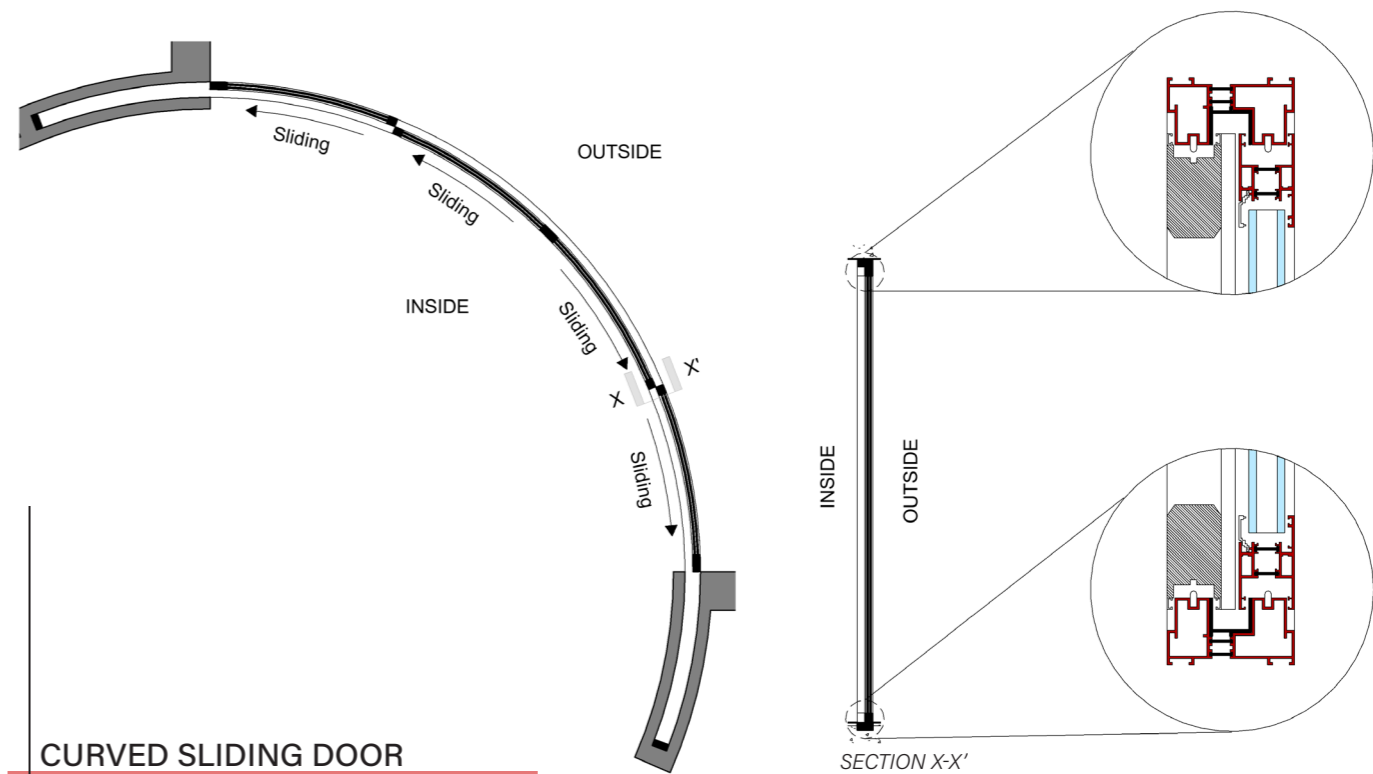


NORTH ELEVATION

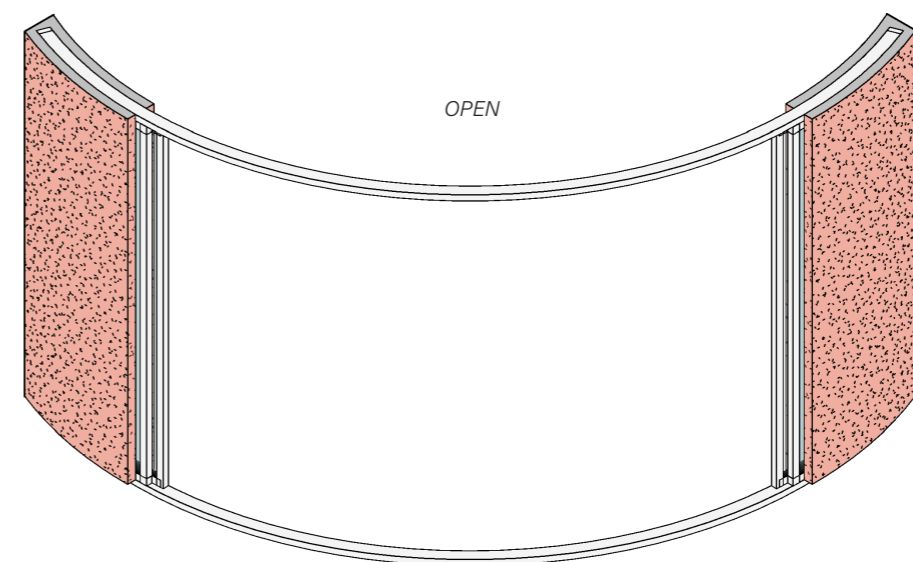
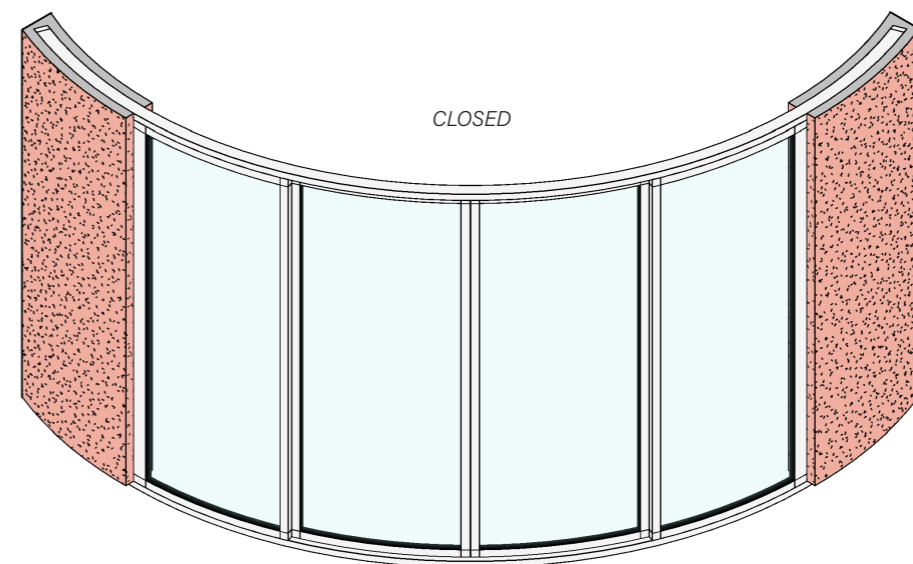
4



SECTION



CURVED SLIDING DOOR
MODEL-IN-PLACE FAMILY



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

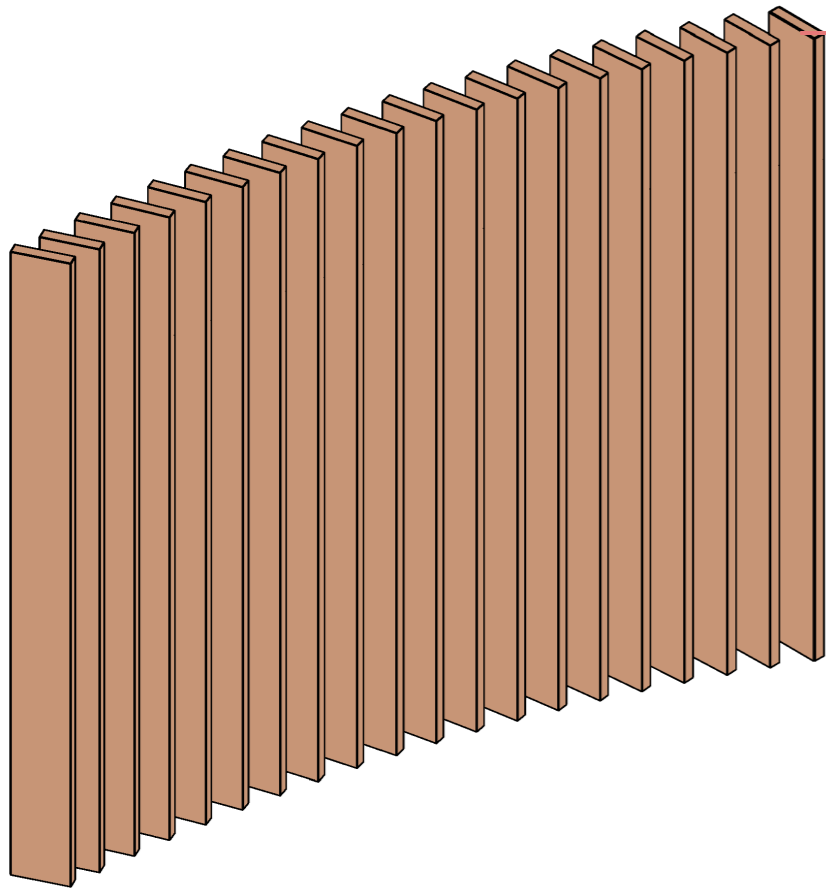
Parameter	Value	Formula
Visibility		
CLOSE (default)	<input checked="" type="checkbox"/>	= not(OPEN)
OPEN (default)	<input type="checkbox"/>	=

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
Thickness 250.0

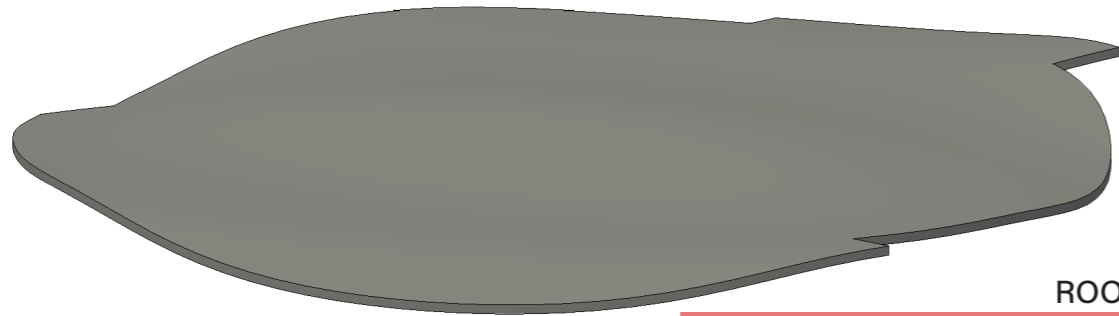
Materials and Finishes

Material Birch

Dimensions

Width on side 2 25.0
Width on side 1 25.0

[Properties help](#) Apply



ROOF BY FACE

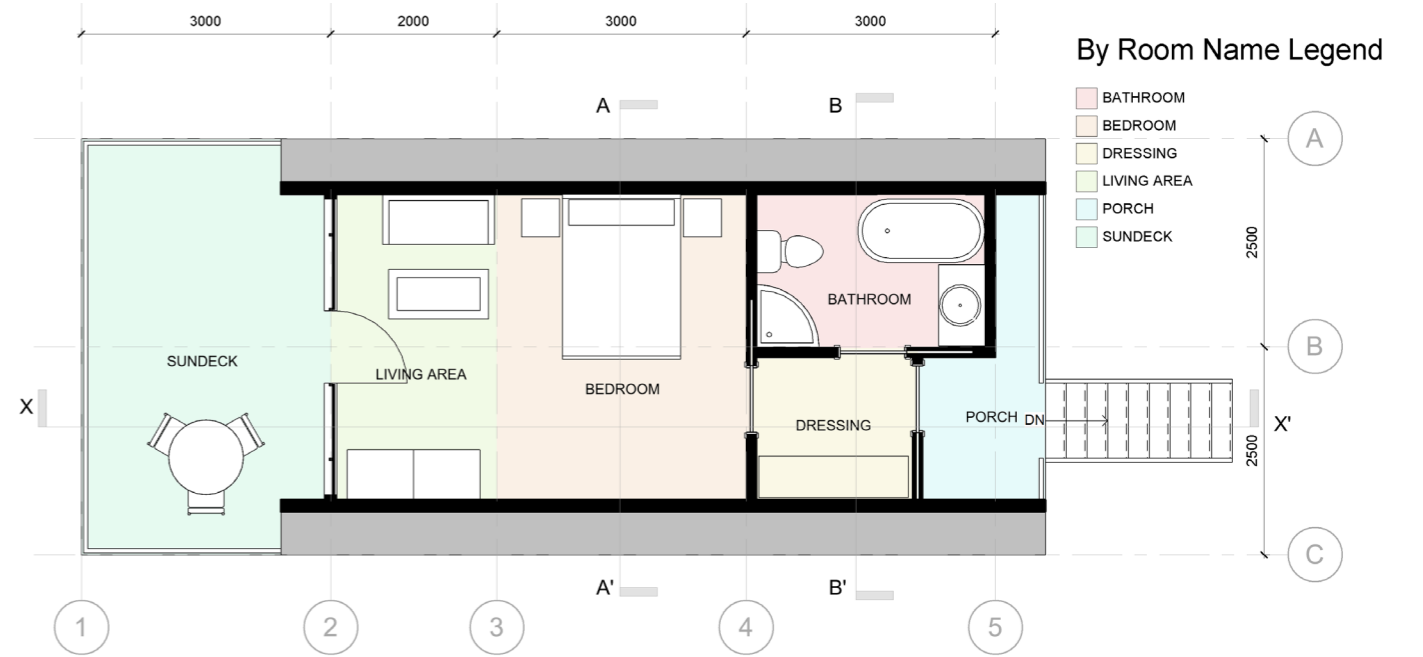
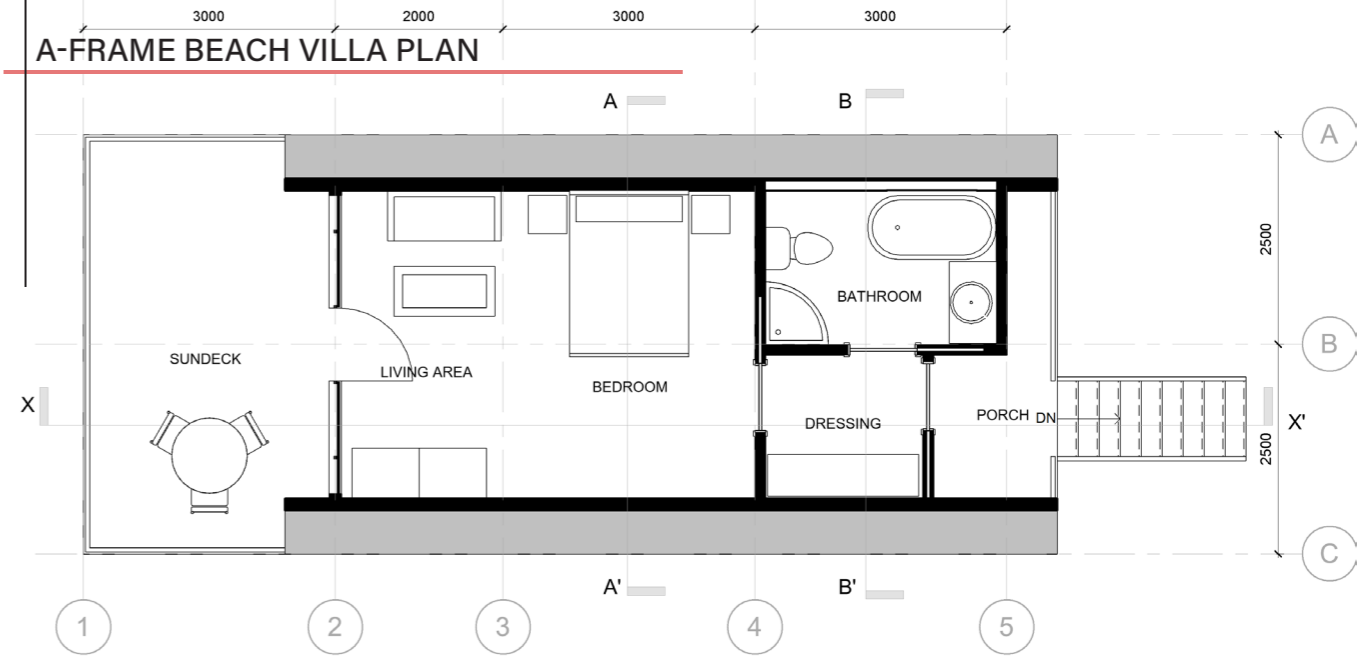
CREATED FROM IN-PLACE MASS



RENDERED VIEW

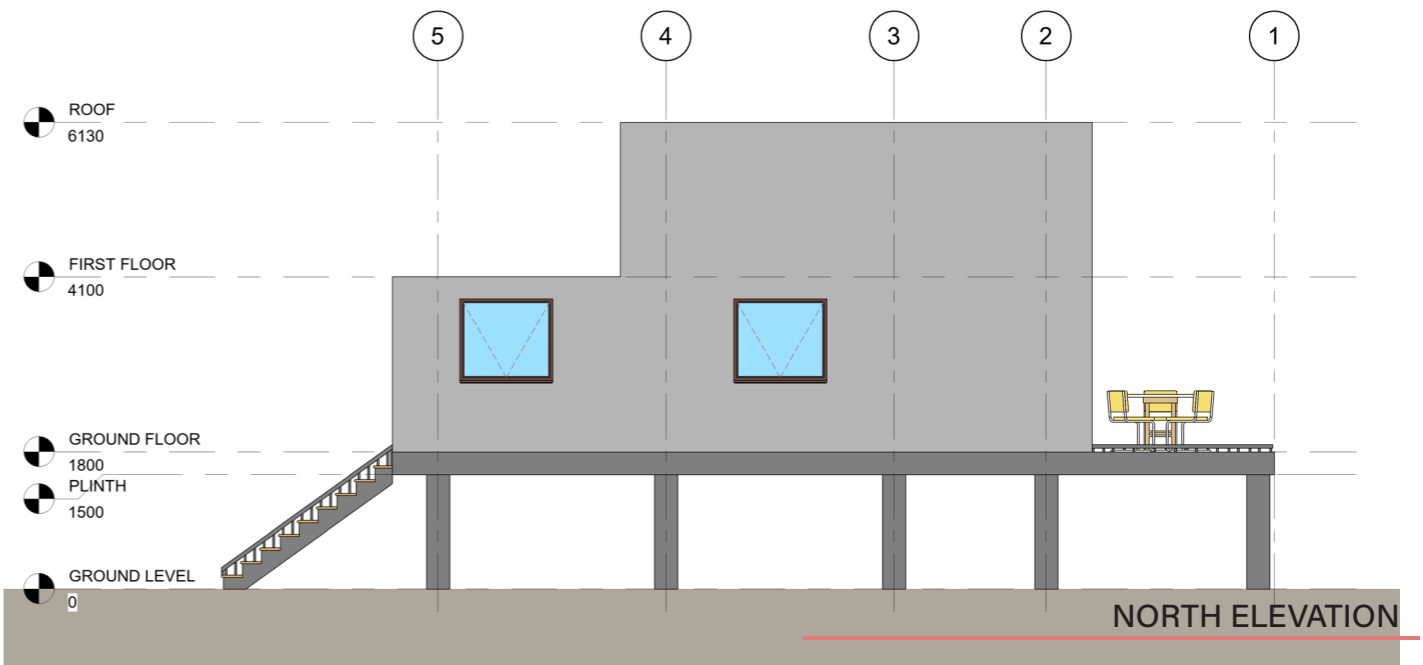
SOUTHERN FACADE

A-FRAME BEACH VILLA PLAN

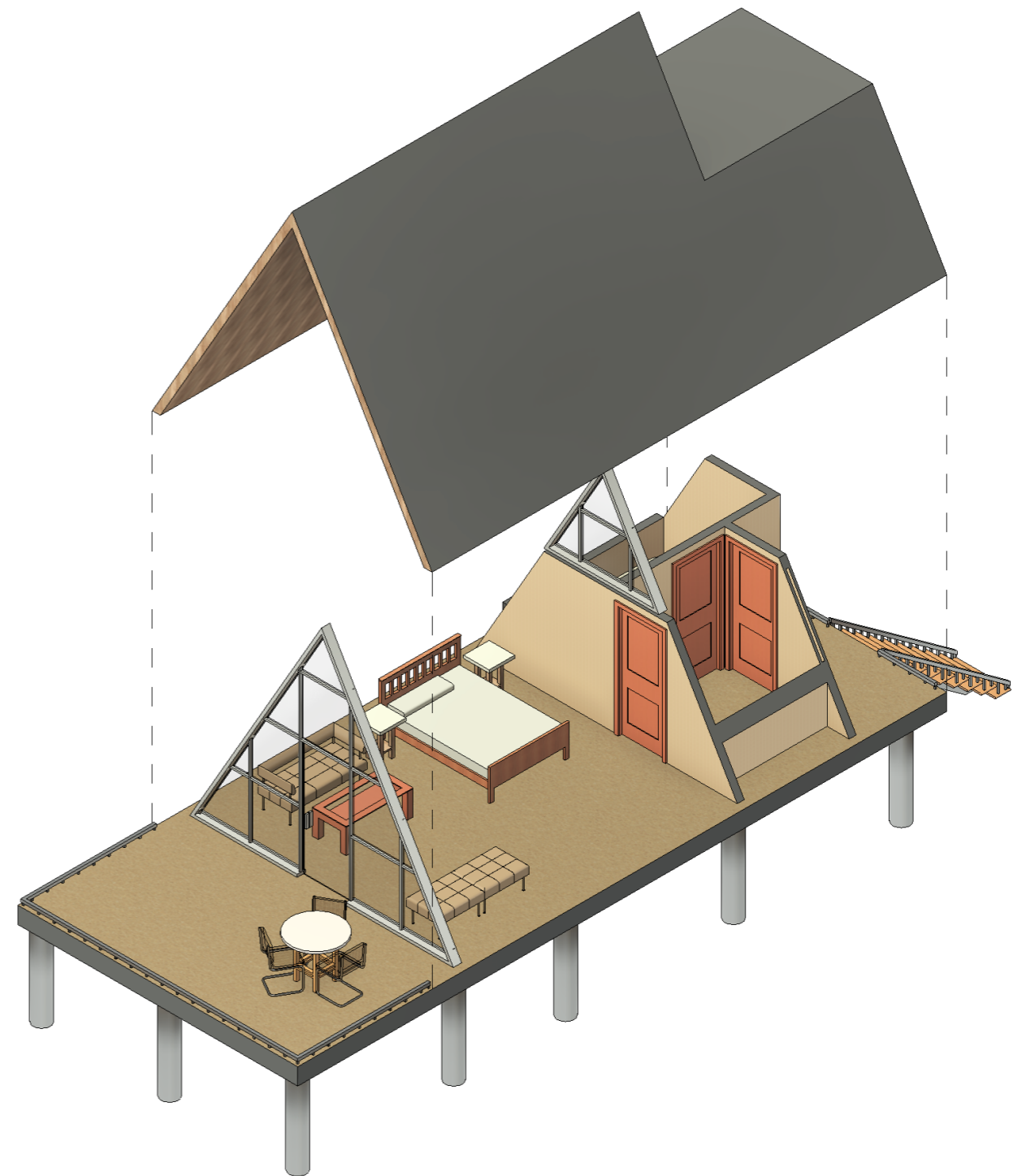
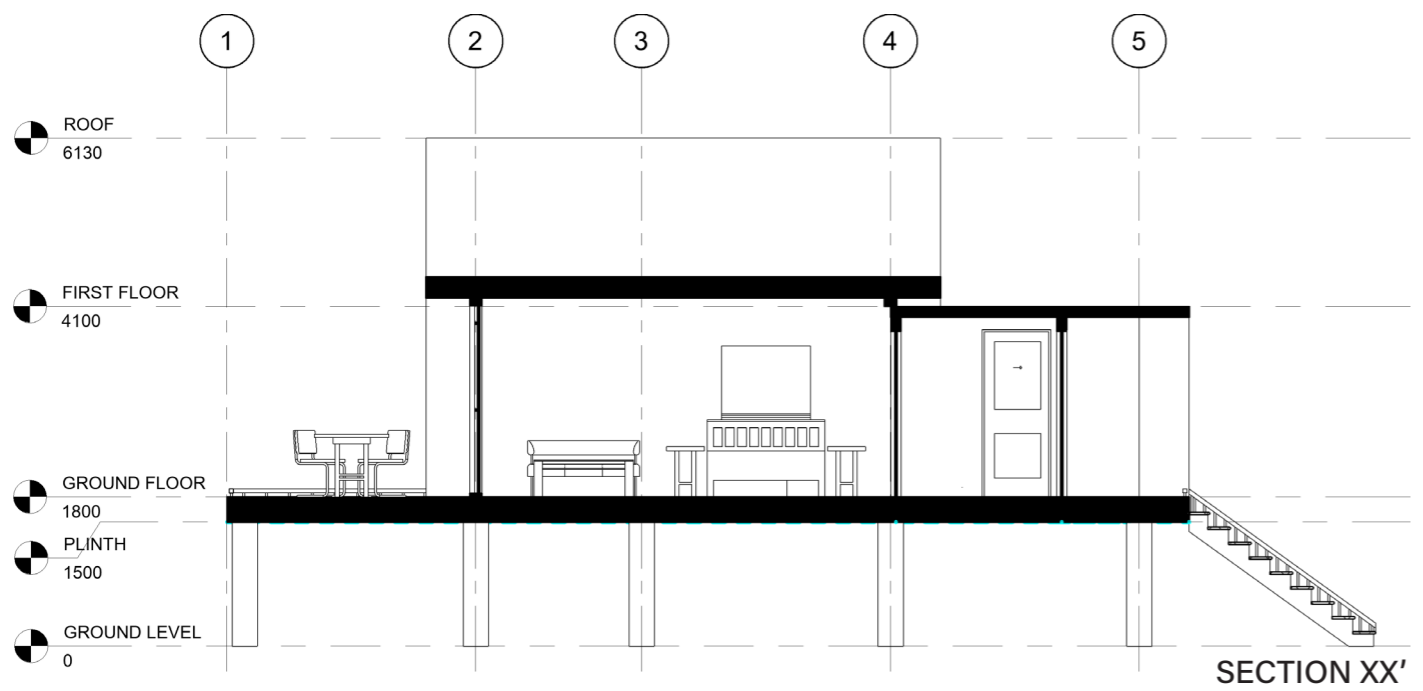
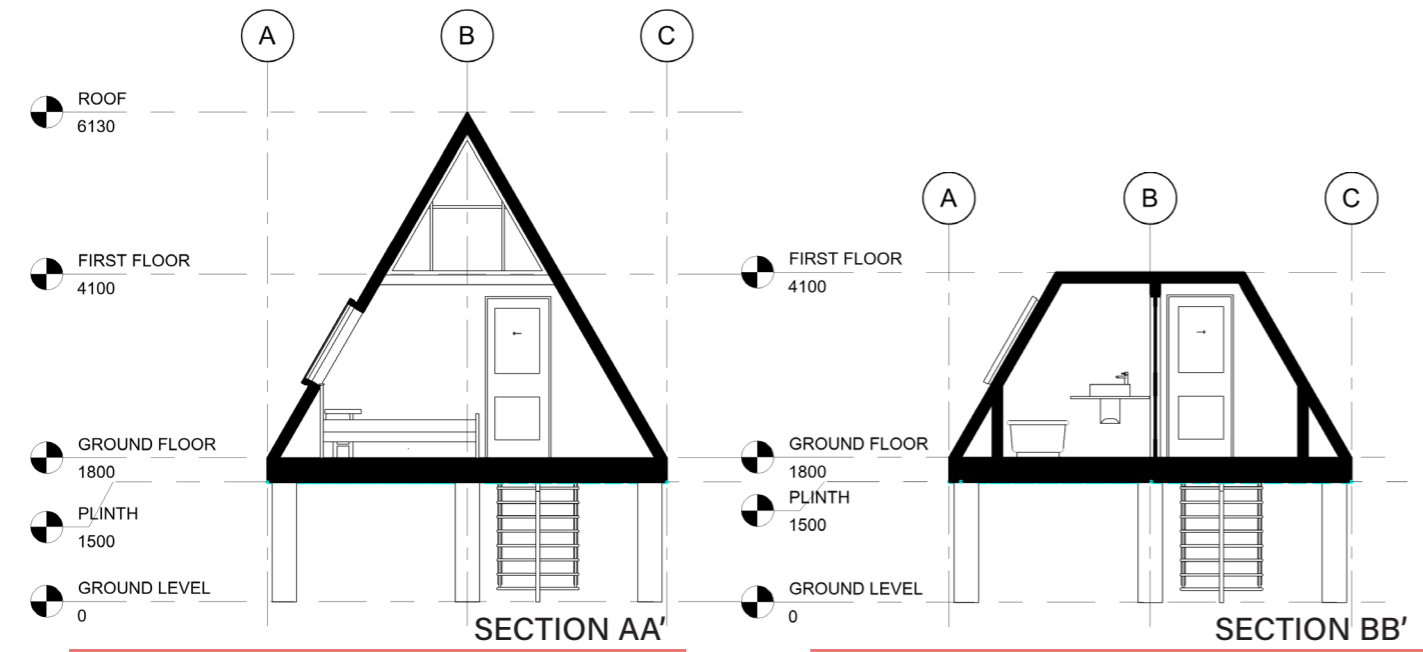
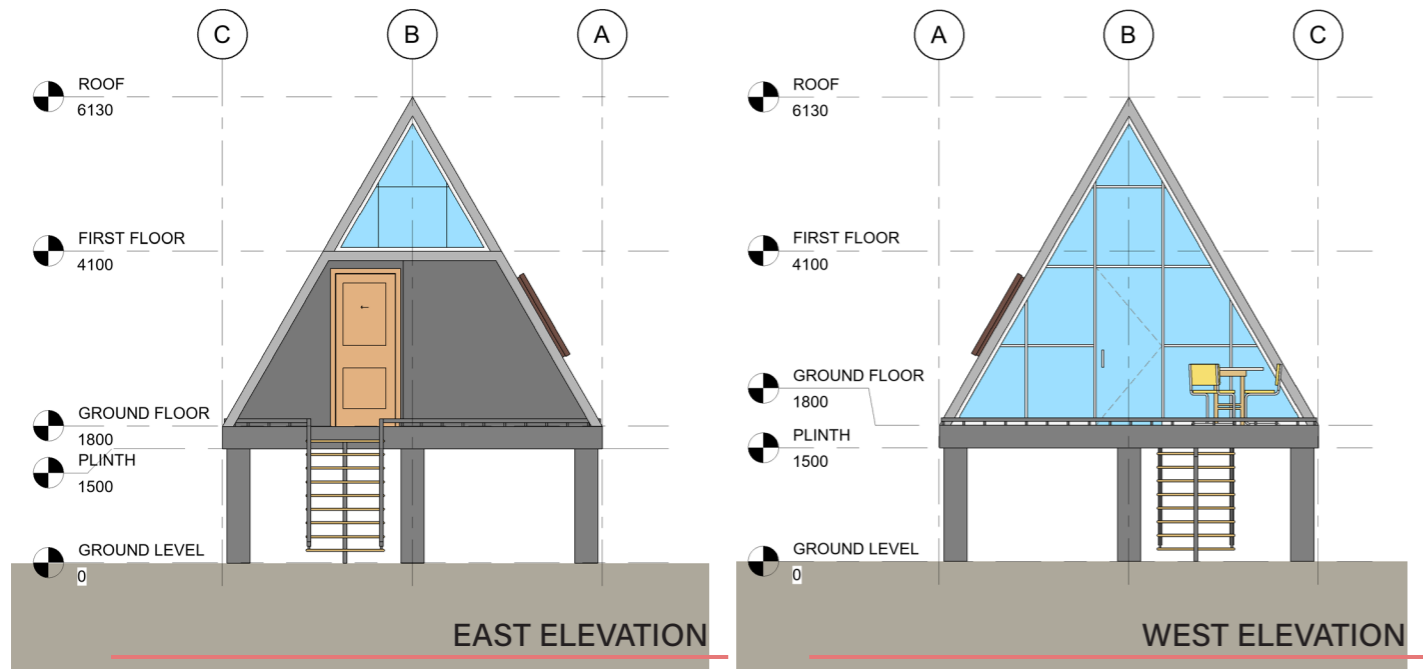


By Room Name Legend

- BATHROOM
- BEDROOM
- DRESSING
- LIVING AREA
- PORCH
- SUNDECK



NORTH ELEVATION



3D VIEW
WITH DISPLACED ELEMENTS



RENDERED VIEW
NIGHT VIEW

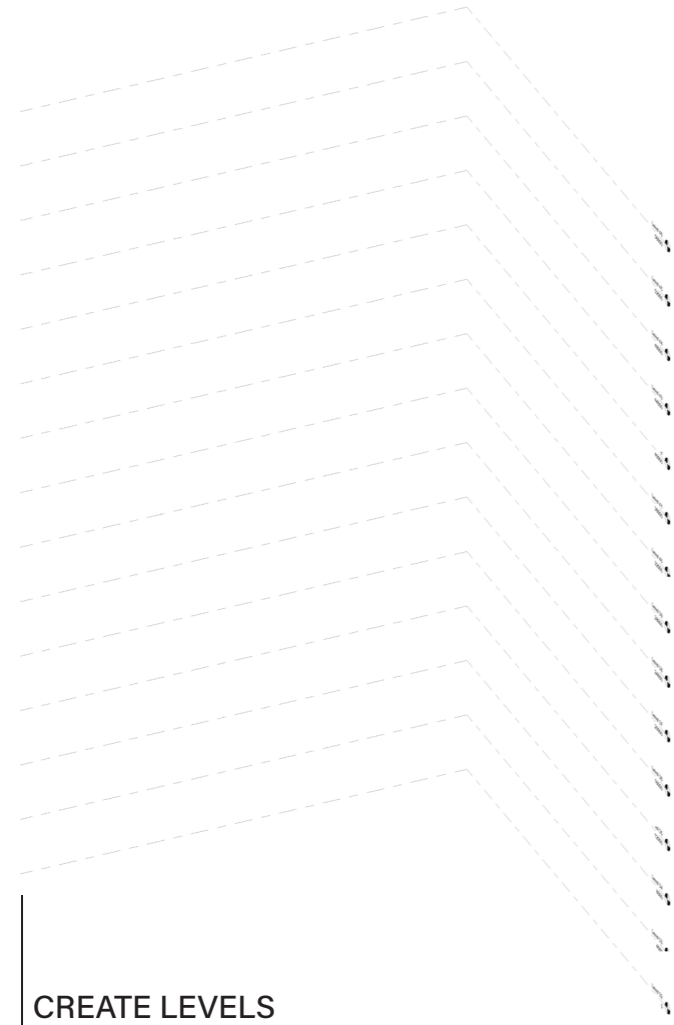


RENDERED VIEW
DAY TIME

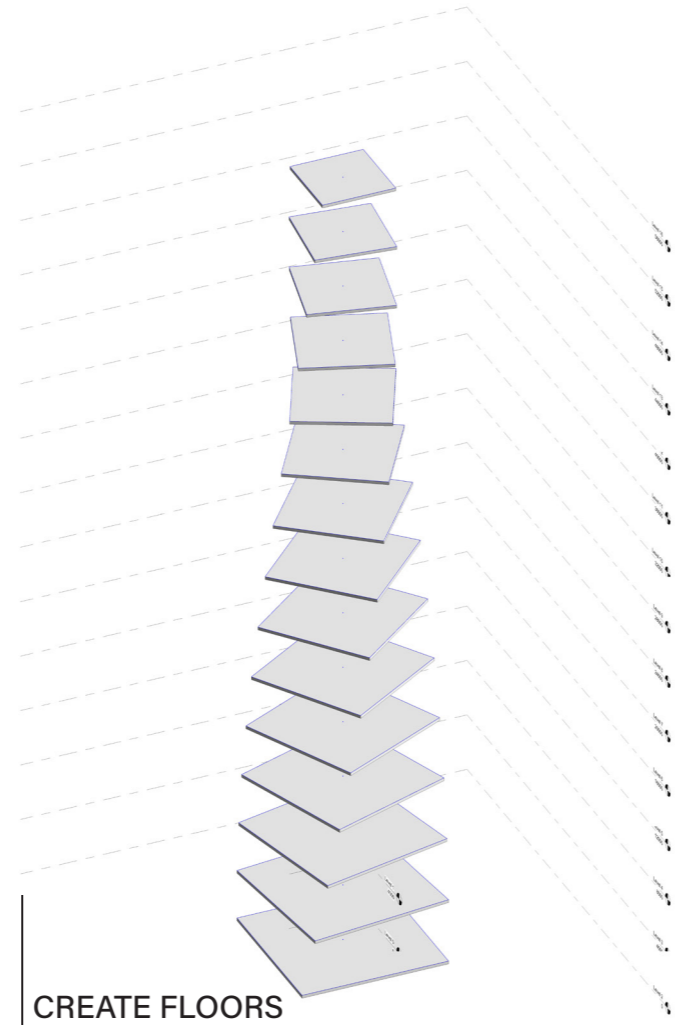
03

DYNAMO

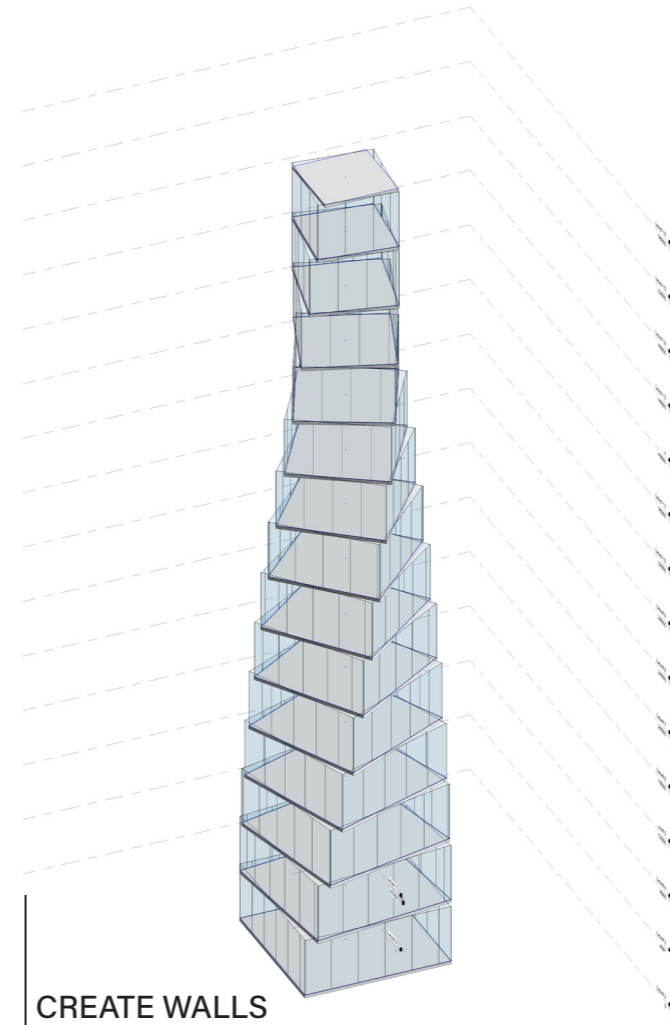
ENVIRONMENTAL ANALYSIS - Interaction with sun direction



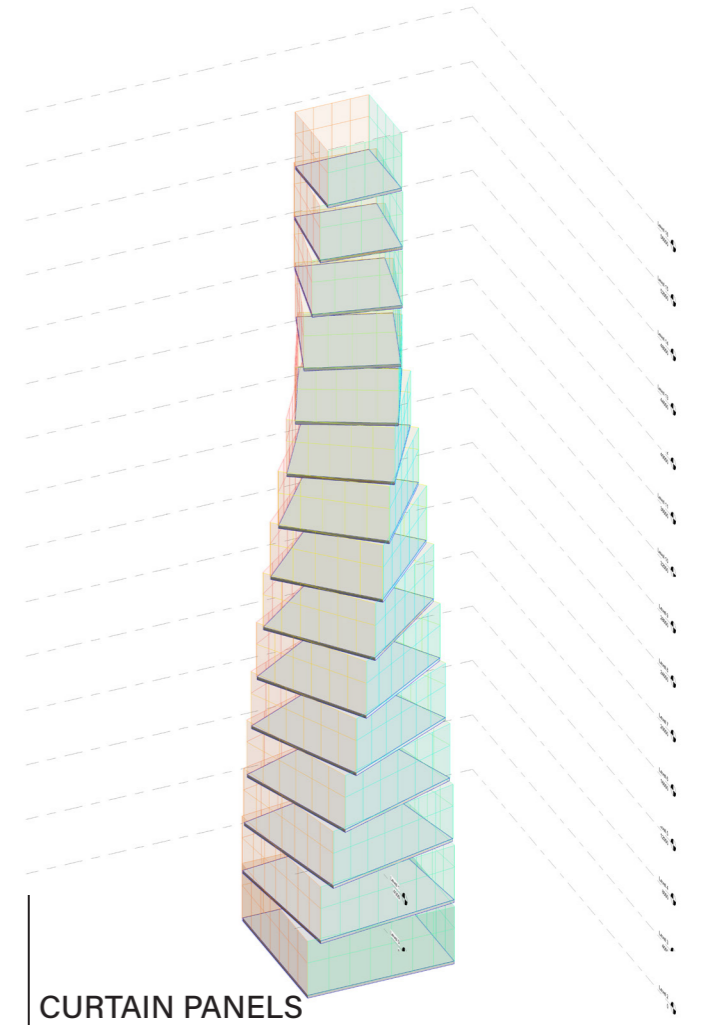
CREATE LEVELS



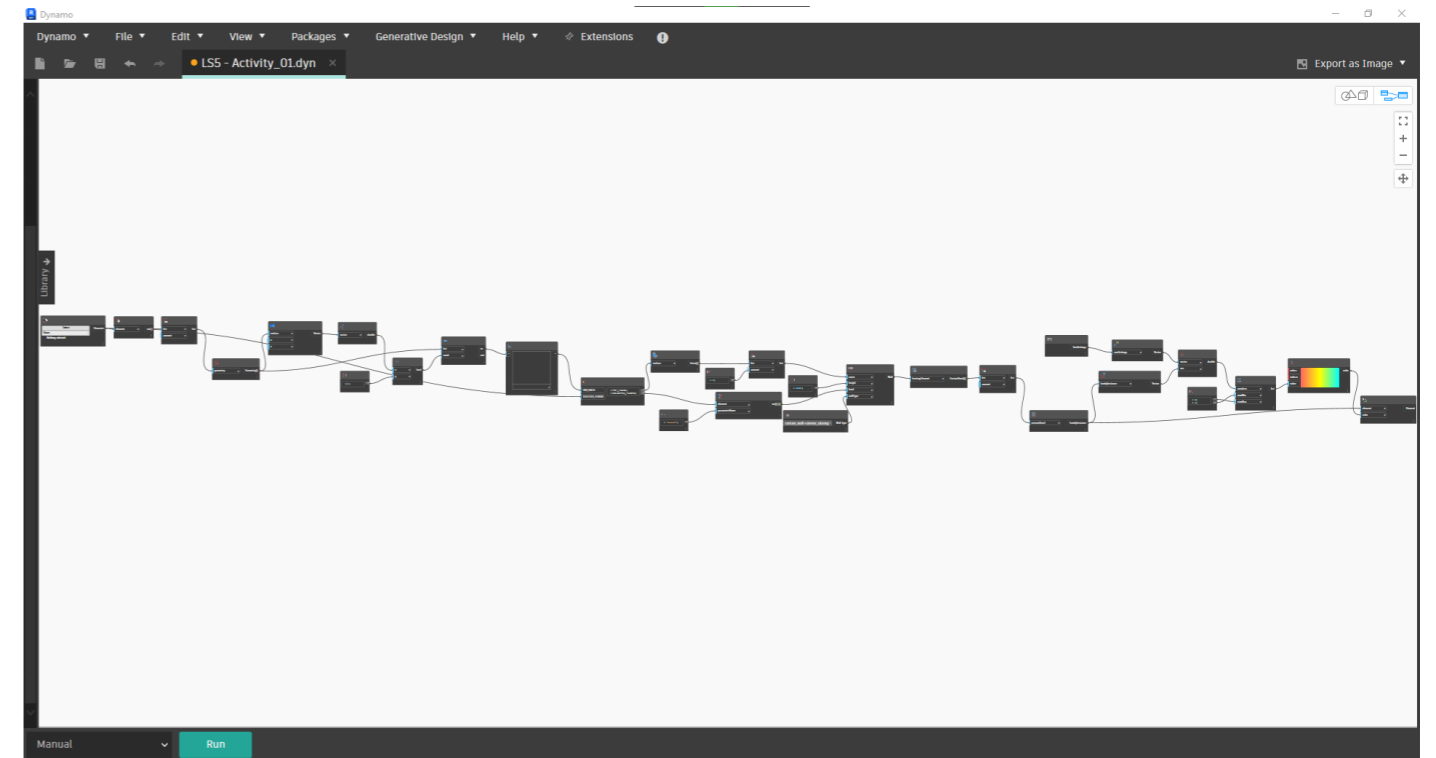
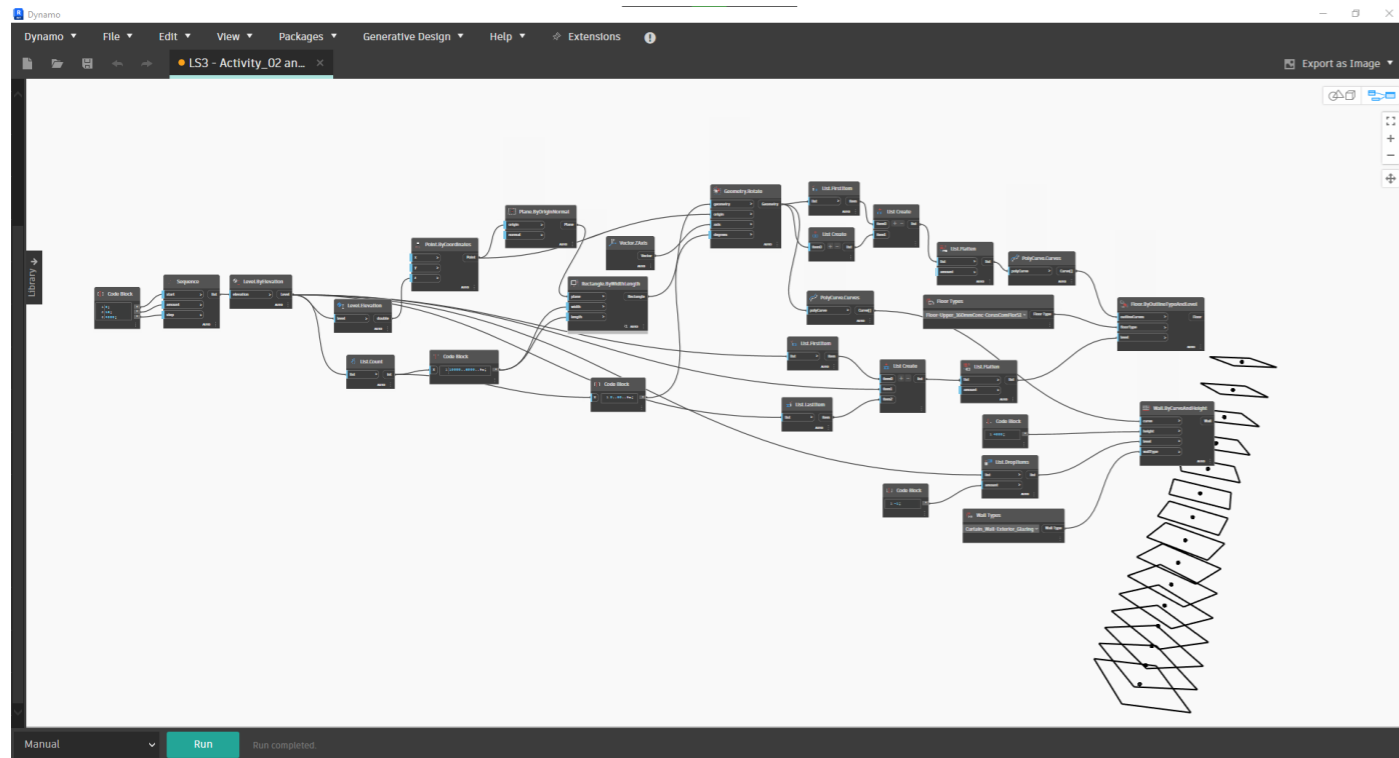
CREATE FLOORS



CREATE WALLS



CURTAIN PANELS
WITH GRAPHIC OVERRIDE



**THANK
YOU**

LOCHANI PUSHPA VEERAVALLI