

P O T R F O L I O

BY
NABANITA SASMAL

SELECTED WORK





Hi,
I'm Nabanita Sasmal , recently
pursuing bachelor in the department
of ARCHITECTURE AND PLANNING
from IIEST, SHIBPUR , with a great
passion for learning and trying new
various things about building and
design and ready to move for better
experience.

Strong team work, communication,
and attention to detail skill with a
protective attitude towrds new
project.

NABANITA SASMAL

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kolkata,westbengal,india

Education

Secondary examination(2018)
Brahmo Blika Shikshalaya,Kolkata(69.54%)

Highr Secondary Examination(2020)
Brahmo Blika Shikshalaya,kolkata(84%)

DELED(2022)
Vidyasagar Bani Bhawan Teacher's Training Institute, Kolkata(80%)

Bachelor Of Architecture(2021- present)
Indian Institute Of Engineering Science and Technology, Shibpur(7.54 cgpa)

Skills

Auto Cad
Sketchup
Revit

Enscape
Lumion
D5

Interpersonal
Time Management
Teamwork
Molding Building
Critical Thinking

Adobe Photoshop
Adobe Illustrator
Canva

Microsoft Office
Blender
Stadd Pro.

Competitions Prticipate

2023

Association of Architecture Assam
Architecture around you
Rhino Workshop
Architecture 3D Workshop

2024

Discover Arch Fire Resistant Building
INSDAG Green Building
CPK ,Landscape Design
TATA Bluescope Steel World Habitat Day – Architect
Appreciation Program- WorkShop

Responsiblity

School representative(2017)

Extracariullar Activity

Complited RATNA in FINE ART

Languages

English
Bengali
Hindi



CONTENTS

- 01 CAFE DESIGN**
in Pahalgram

- 02 Banglow design**
in New Town,Kolkata

- 03 Public Toilet Design**
in New Town,Kolkata

- 04 PARK DESIGN**
in Parkcircus , kolkata

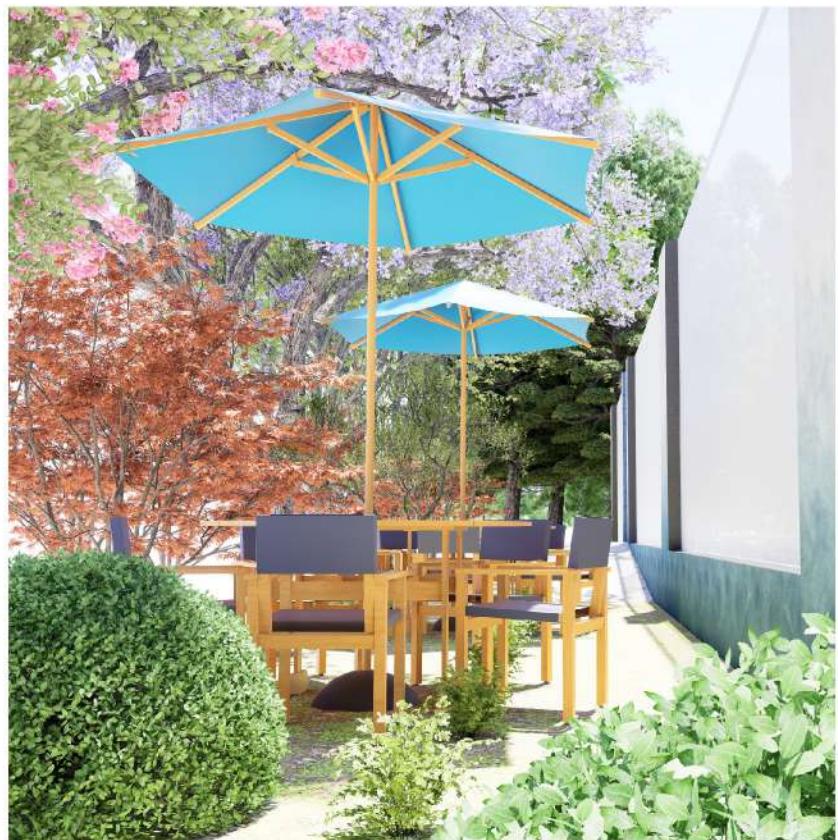
- 05 zeal,Automobile company**

- 06 Sanctioned plan**

01

CAFE DESIGN in Pahalgram

semester 3rd
Studio Project
Kashmir, Pahalgram
Individual
2023



Design of a Cafe at Kashmir,Pahalgram,which is the road side cafe, lies between SRINAGAR and PAHALGRAM.site located in a hill region. The design of the cafe was to be done abiding the NKDA bye laws and NBC 2016 bye laws also incorporating energy efficient design elements. Incorporatin pertinent facilities and spaced keeping in mind the needs and requirments all user groups being: guests(couple,famaily,personal dinning,take away counter).

maximum buildup area permitted including the curiculatin was sqm. Mandetory open sapce 3m.Parking and its interface with structural systems services and utilities were also be produced.

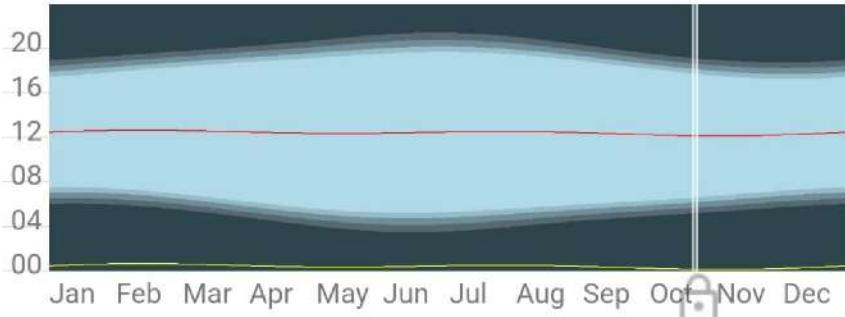
the main consideration behind was to mannage the areas with different functions and creating proper movement and connection between them.Revenew potential is osmething that should be taken into consideration when developing a CAFE. How money can we generate? Hence the money genrating spaces like outdoor bon fire sapce, meeting space and sovenir sapce. services and design ensure that it give privacy and homely feeling to the guest.

The facade of the CAFE designed with a plants so that it creat a micro climate and also filter duest particals.

Site Analysis

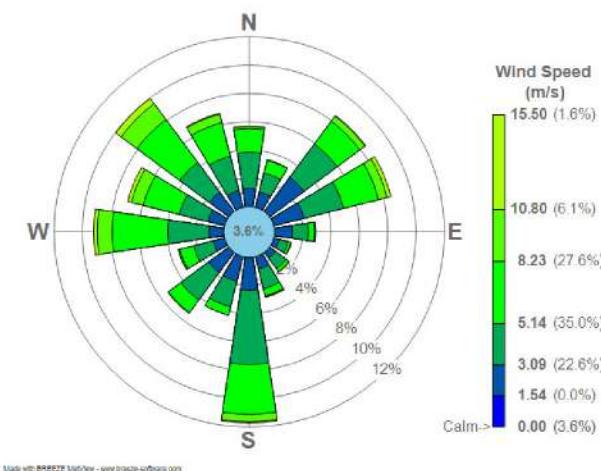
The following site analysis for designing Winter fall cafe. It encompasses climatological, geological and natural factors which were considered for this project.

2024 Sun Graph for Pahalgām



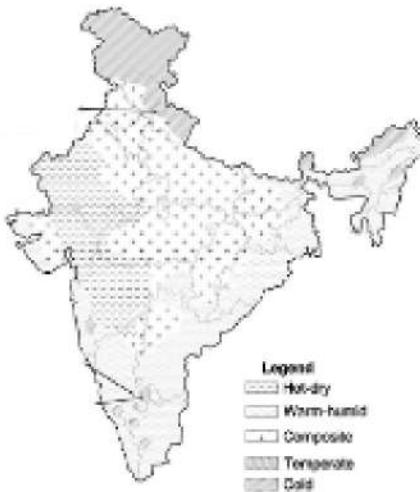
Average Daylight

The oct. solstice in kashmir on monday, 21 oct 2024. sunrise 6:25am and sunset 17:35pm. DEC. solistice 21st december 2024, 14:20 winter



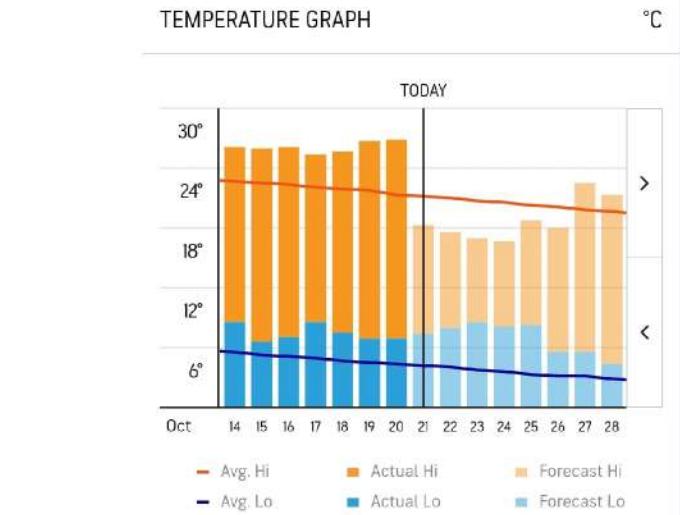
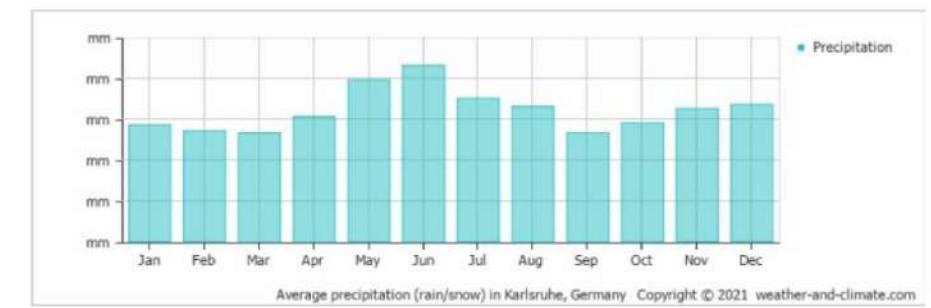
The Site is located in kashmir which lies under Temperate climate zone.

Climatic zone



Average Precipitation

Average annual precipitation is 1,240mm.(kashmir vally)
OCT. is the driest month with 68mm of precipitation.



Average temperature

Altitude 2130meters above the sea level.
summer: pleasant(15 degree c - 30 degree c)
winter: cold (-2 degree c - 10 degree c)

Average Wind Speed

summer: 7-15 km/h
winter: 10-25 km/h



Concept

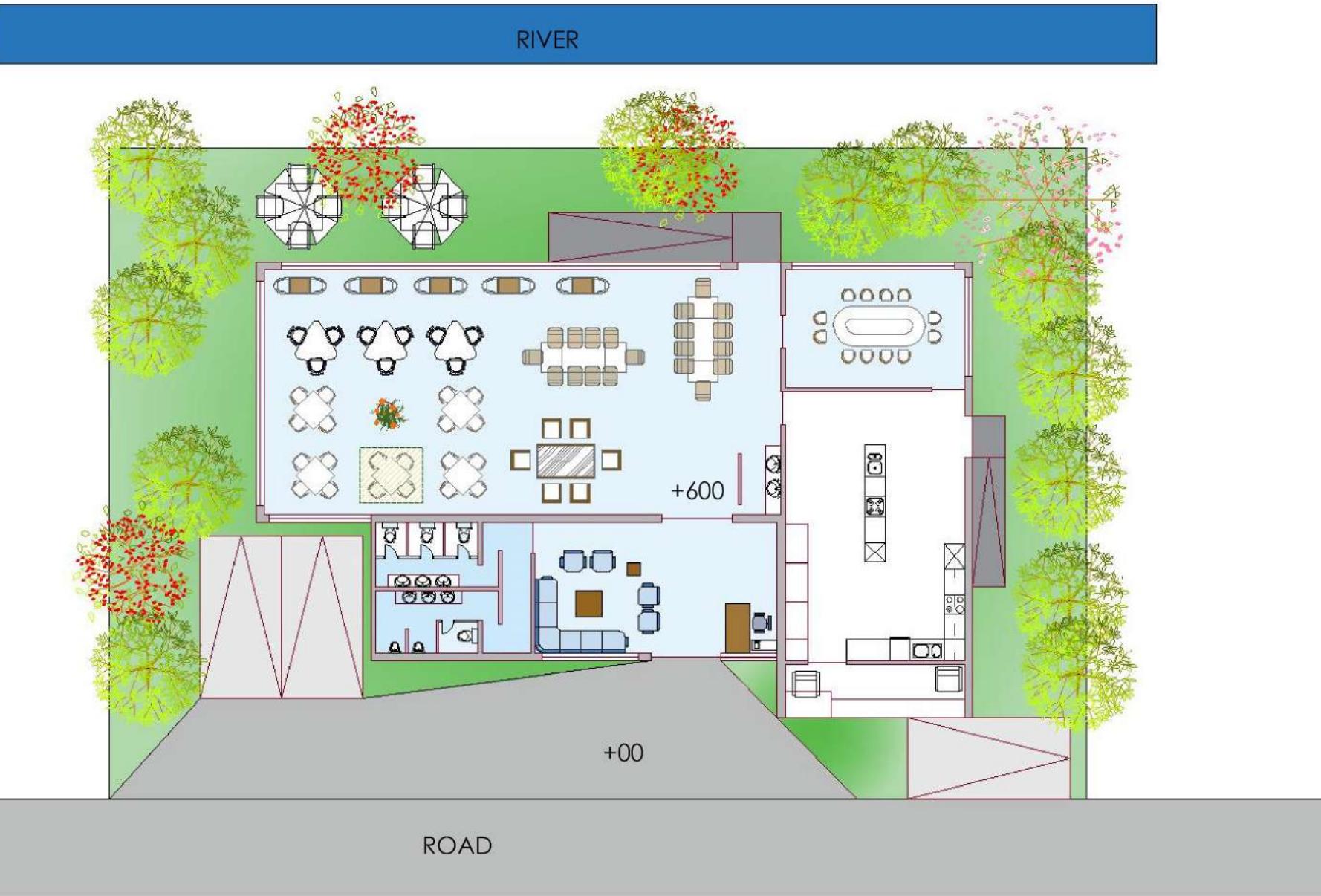
WINTER FALL

Kashmir is a stunning region located in the northernmost part of India, nestled in the Himalayan mountains. Pahalgām is also known as the "Valley of shepherds", is a picturesque hill station in Anantnag district of Jammu & kashmir

This place is prone to tourist attraction place of seeing the nature of beauty. Near the cafe site a small mountain river is flowing in its own style and for showcasing this beauty of nature the cafe is made not only in summer but also in the time of winter season this place looks more like heaven.

For giving the heaven feeling my WINTER FALL cafe is made ... there I put so many types of seating arrangements so that customers never feel bored.

Plan



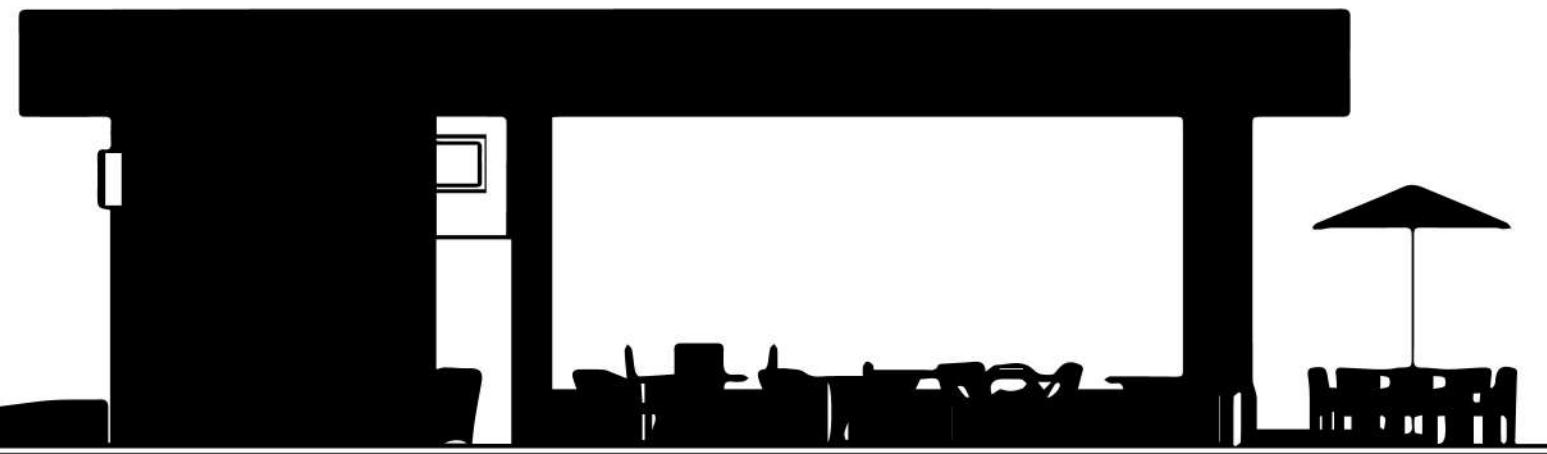
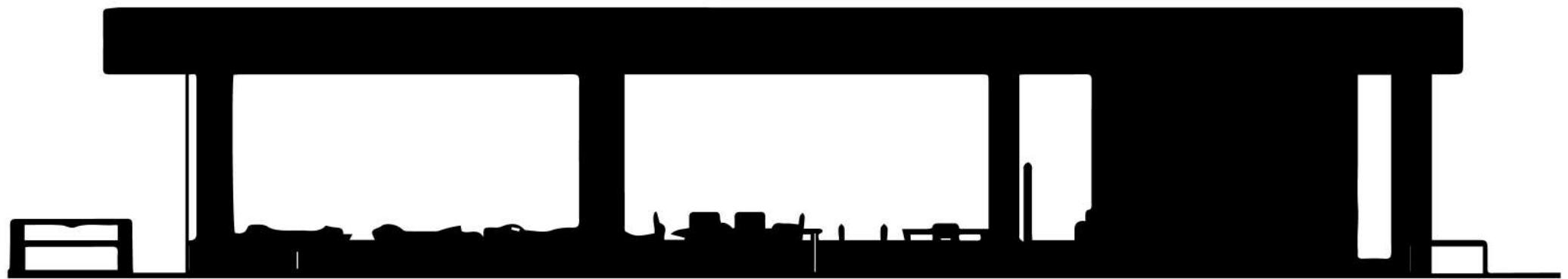
Connecting with nature is essential for human well-being, fostering a harmonious relationship that benefits both physical and mental health. Exposure to natural environments reduces stress and anxiety, lowers blood pressure, improves sleep quality, boosts the immune system, and increases vitamin D levels. Nature's calming

By embracing nature connection, individuals can:

- Enhance overall well-being
- Foster resilience and adaptability
- Cultivate creativity and inspiration
- Support physical and mental health
- Nurture social connections and community

Embracing nature's transformative power can profoundly impact lives, cultivating a deeper appreciation for the natural world and our place within it.





SECTION & VIEWS

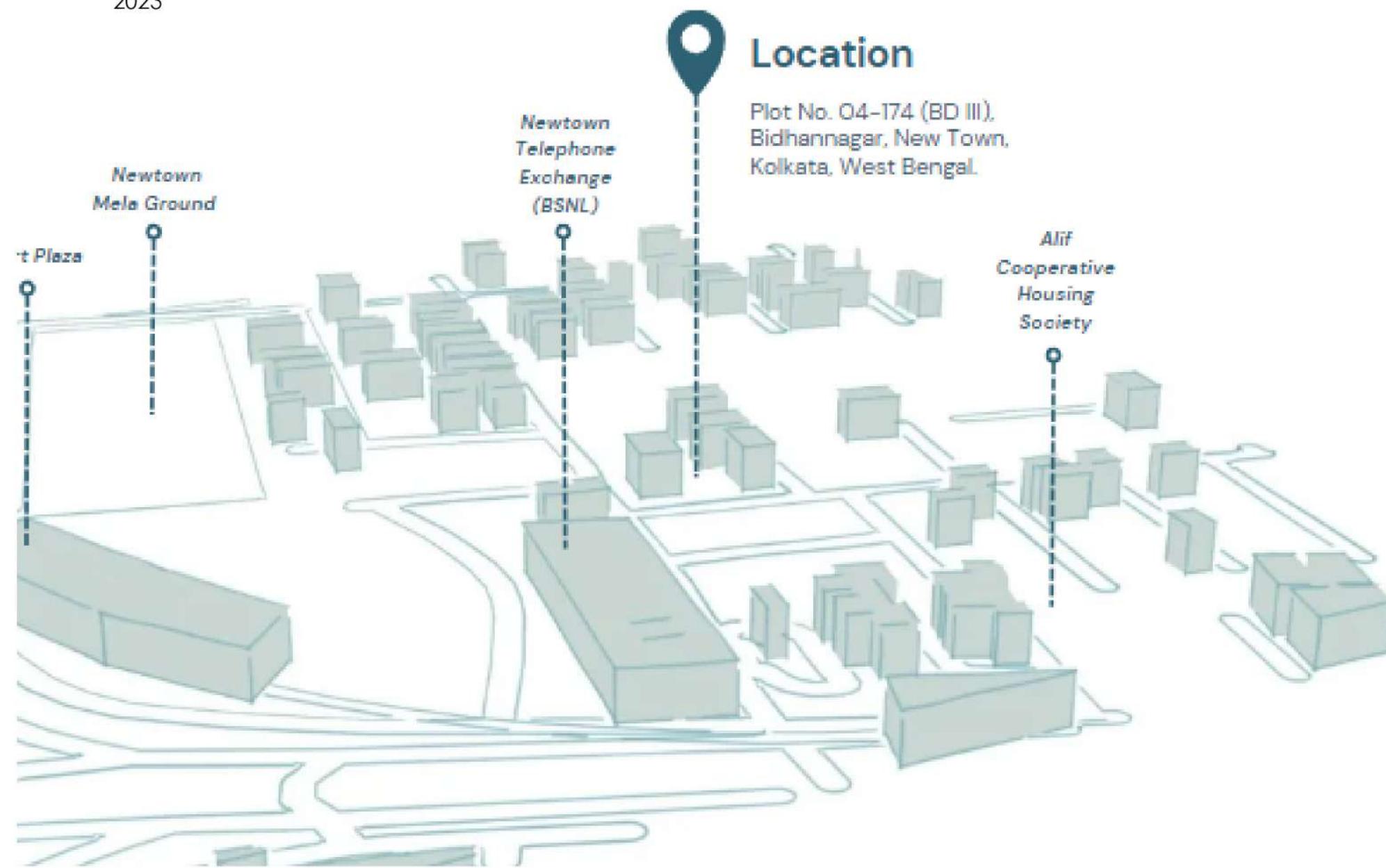




WINTERFALL
CAFE

Bungalow design in New Town,Kolkata

semester 4th
Studio Project
New Town ,Kolkata
Individual
2023



Design of a Banglow at New Town ,kolkata, client who is on the verge of retirement from service.Having been brought up in a town with a river and countain on one side and sea beach on the other, he always cherished the idea of living in a home with lawn and garden. With his professional background as a top executive with extensive travel and residing at various cities in India, and also his exposure to the works of architecture, his only stipulation is to see a little bit of greenery from every window of the house.The regular site measures around 18.0m x30.0m with access roads of 18.0m on the east. The site is flanked by residential buildings on other sides.

Relevant Byelaws:

Ground coverage: Max. 40%
Floor Area Ratio (F.A.R.):
Height: Two storied or partially Two and half storied
Minimum Open space: 2.0m at front, 1.5m at both sides, and 3.0m at rear.
Parking Requirement: at least 2-3 nos. car parking required by the family and for the guest.

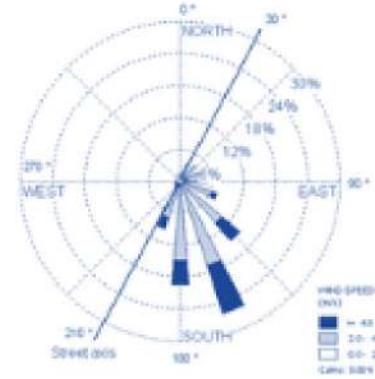
Site Analysis

The following site analysis for designing SERRA. It encompasses climatological, geological and natural factors which were considered for this project.



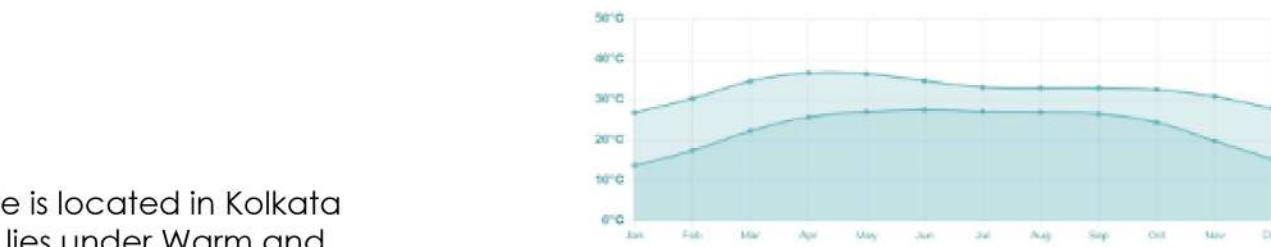
Average Daylight

The June solstice in Kolkata is at 02:20 on Friday, 21 June 2024. In terms of daylight, this day is 2 hours, 46 minutes longer than the December solstice.



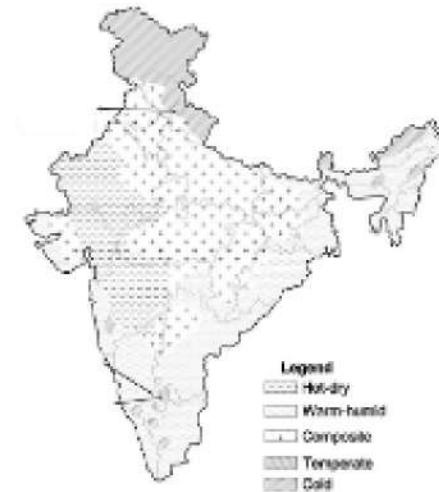
Average Precipitation

Kolkata between June and September, supplying it with most of its annual rainfall of about 1,850 mm (73 in). The highest monthly rainfall total occurs in July and August.



The Site is located in Kolkata which lies under Warm and Humid Zone.

Climatic zone

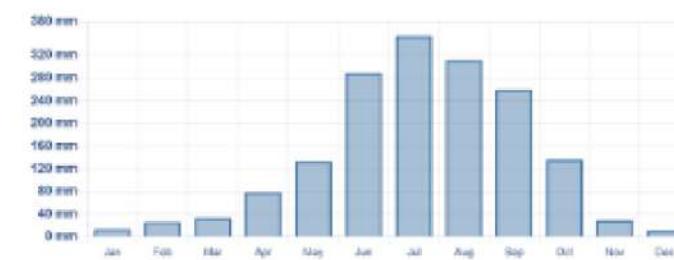


Average temperature

The annual mean temperature is 26.8 °C, with monthly averages from 19–30 °C. Summers (March–June) are hot and humid, with temperatures in the low 30s °C and sometimes exceeding 40 °C during dry spells in May and June. Winters last about two months, with lows of 9–11 °C in December and January.

Average Wind Speed

Kolkata's average wind speeds are 0.8 to 1.7 m/s, with primary winds from the south during monsoon and from the north/northwest in winter.



Concept

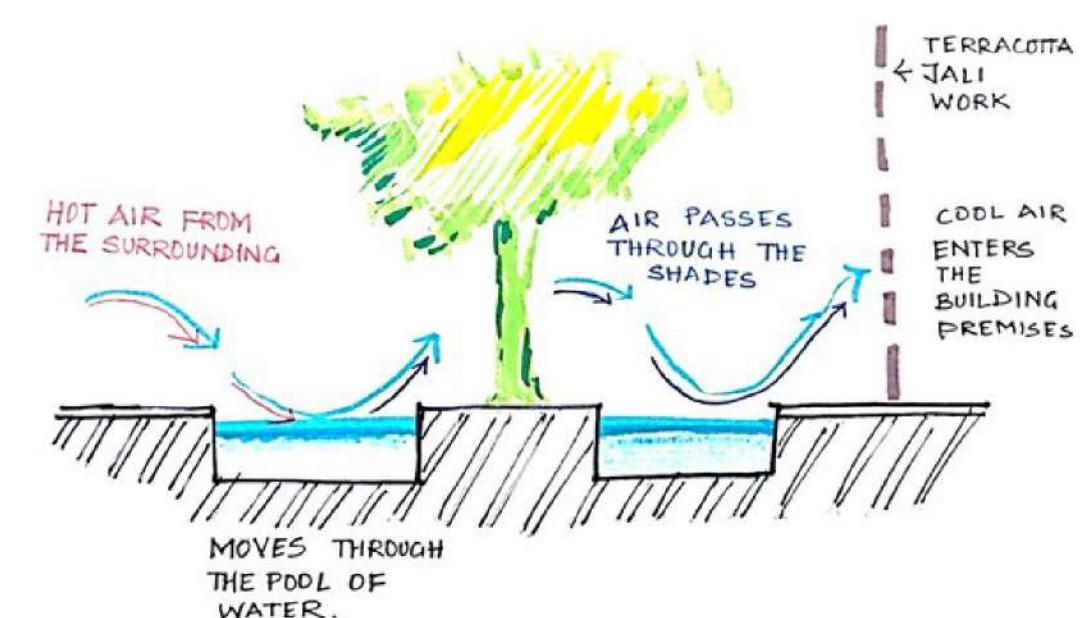
SERRA

Serra is an expansion of our thoughts regarding green living in an urban setup. Meaning Greenhouse in Italian.

We visualized Serra as an effort to introduce sustainable living.

Dealing With Urban Heat Island Effect:
Due to the constraints of the site and modern needs, the courtyard system was transformed into this "Water-yard", where the air passes through water and shade, gets cool itself and cools the surroundings.

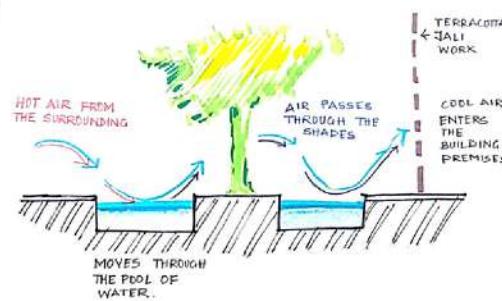
In this way, we can actively as well as passively help in urban heat control and as well as contribute to sustainable living. Both pre-design and post-design features help in achieving green architecture.



Plans

Optimisation of Structural System:

Since Kolkata has warm humid climate, having Balconies, overhangs and awnings helps in reducing indoor heat gains



Dealing With Urban Heat Island Effect:

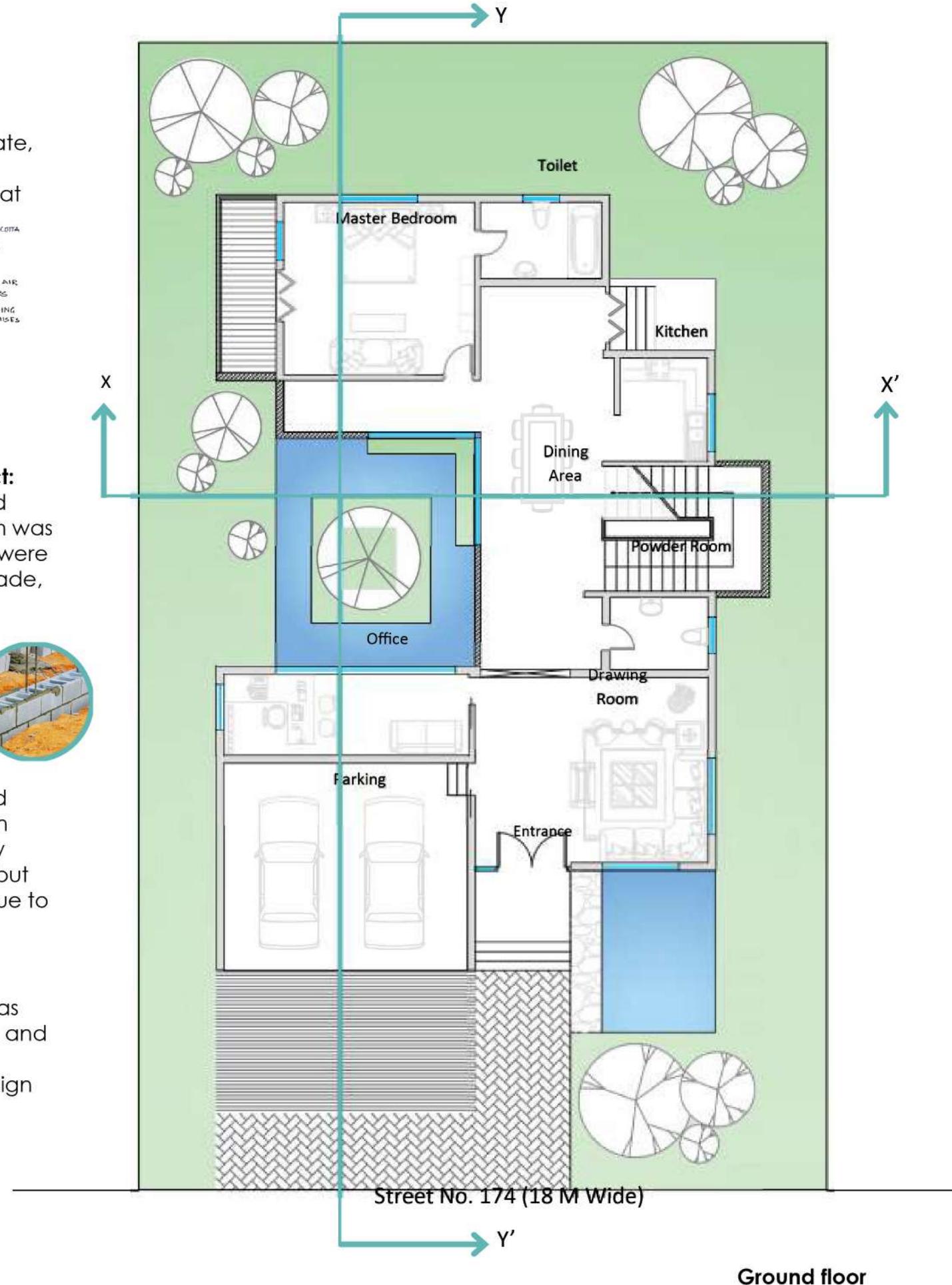
Due to the constraints of the site and modern needs, the courtyard system was transformed into this "Water-yard", where the air passes through water and shade, gets cool itself and cools the surroundings.



Sustainable Materials:

Hollow Terracotta Bricks were used, which were structurally strengthened with steel rods going through them in networks. These steel braced hollow walls are not only seismically strong but also helps in keeping indoors cool due to air flow.

In This way, we can Actively as well as Passively help in Urban Heat Control and as well as contribute to sustainable Living. Both Pre-Design and Post-Design Features helps in Achieving Green Architecture.



Visual Comfort:

The Natural Vegetation of the site is tropical deciduous type vegetation with big foliage trees like Neem Trees provide outdoor shading.



Locally Sourced Materials:

Terracotta Jali work were used to create air pockets, maintains air circulation. Along with it brick works were also used. These Jali are provided in areas facing the water courtyard as well.



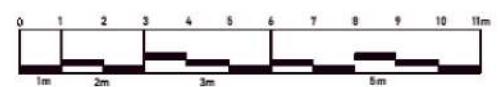
Thermal Comfort:

Louvered Steel Framed windows were also provided for maintaining cross ventilation which is essential for warm humid climate: also connects serene outdoor to indoors creating an open space.



Waste Water Management:

Waste Water Management:
Waste Water can be treated and passed through reed bed system and can be utilised in landscape elements like water ponds and in gardening as well as for cleaning



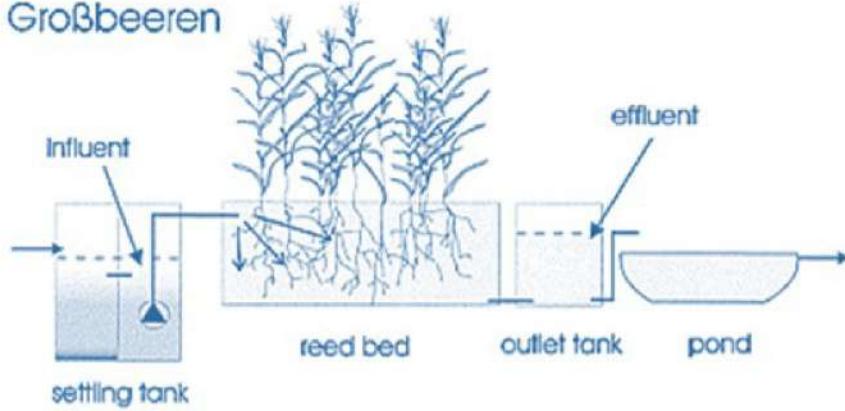
Plans

150 MM Ø RAIN
WATER PIPE



At First Floor all the Rain water pipes merge into one, and gets connected to the Rain water Treatment and Harvesting tank

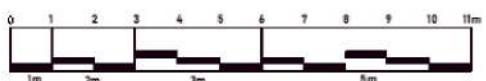
Großbeeren



Waste Water Treatment: Planted gravel filter/ reed bed

A reed bed is a gravel-filled tank with rooted wetland plants that purify water. Plants absorb nutrients and synthetic compounds, aiding their hydroponic growth. Pathogens are eliminated through natural die-off, plant root antibiotics, UV exposure, sedimentation, and gravel adhesion. For 1000 liters of greywater, a reed bed of 5-7 square meters and 1-1.5 meters deep is recommended.

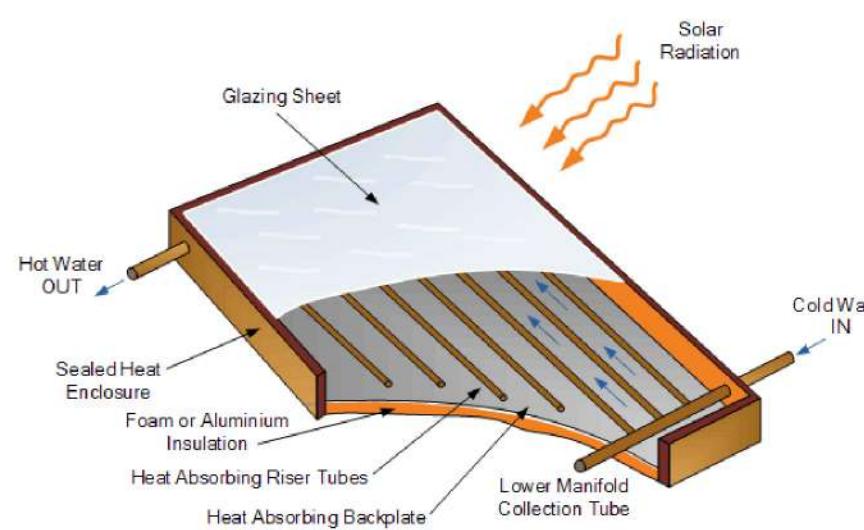
1ST FLOOR



Rain Water Harvesting and Management:

Rainwater management involves collecting, storing, and utilizing rainwater to reduce runoff, prevent flooding, and conserve water. Techniques include rainwater harvesting systems, permeable pavements, green roofs, and rain gardens, which help to recharge groundwater, reduce strain on drainage systems, and provide a sustainable water source for irrigation and other uses. Effective rainwater management enhances water availability and supports environmental sustainability.

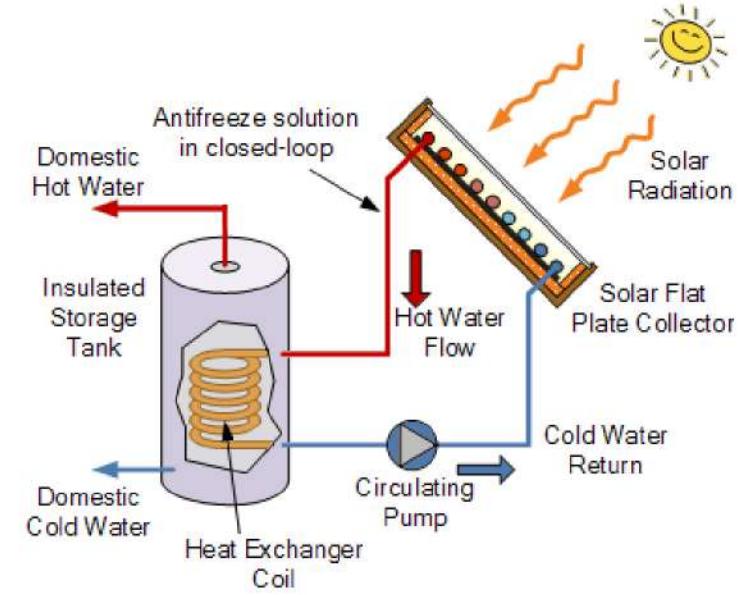
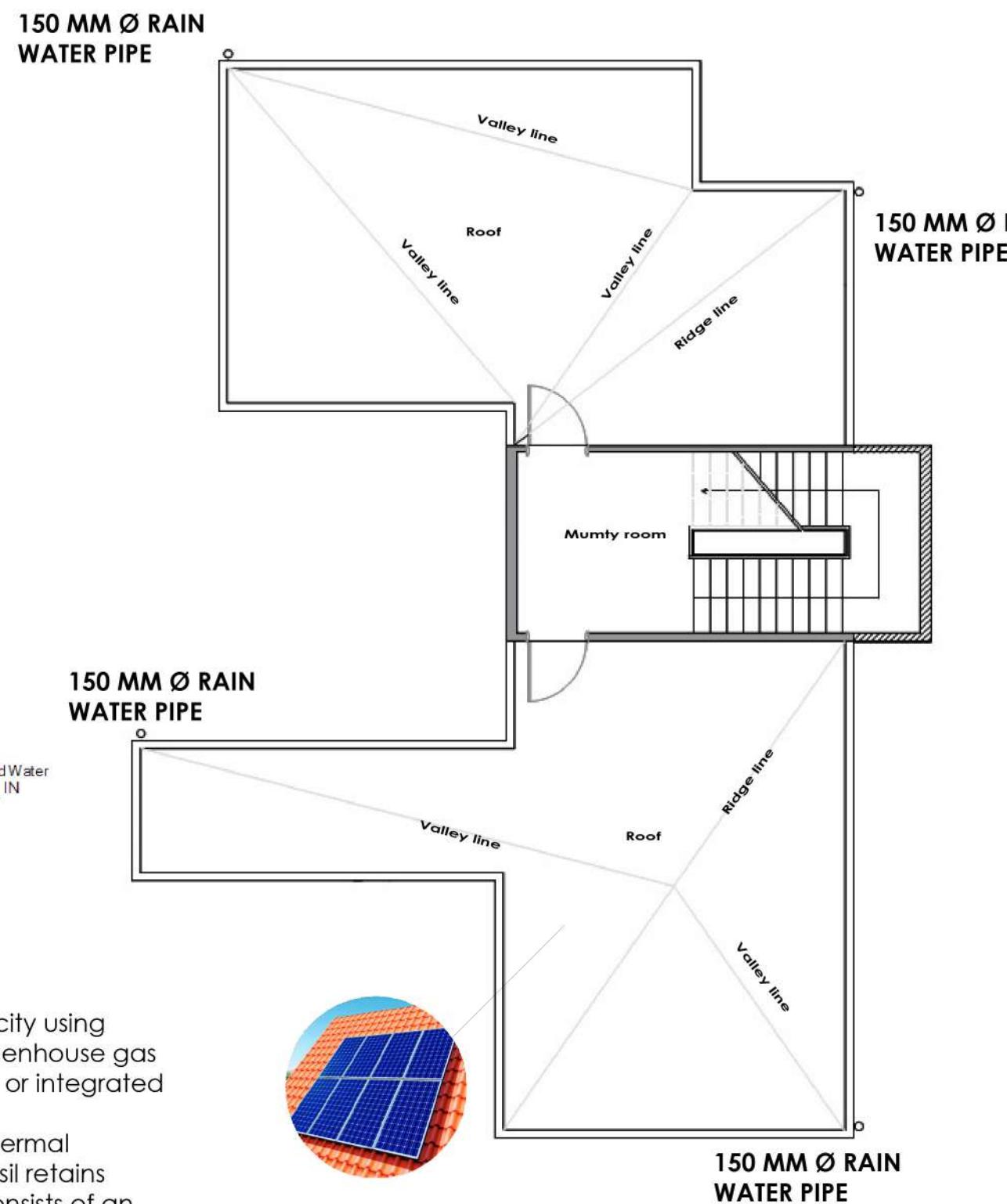
Plans



Solar Power Generation:

Solar power generation converts sunlight into electricity using photovoltaic (PV) cells or solar thermal energy and greenhouse gas emissions, with installations on rooftops, in solar farms, or integrated into buildings.

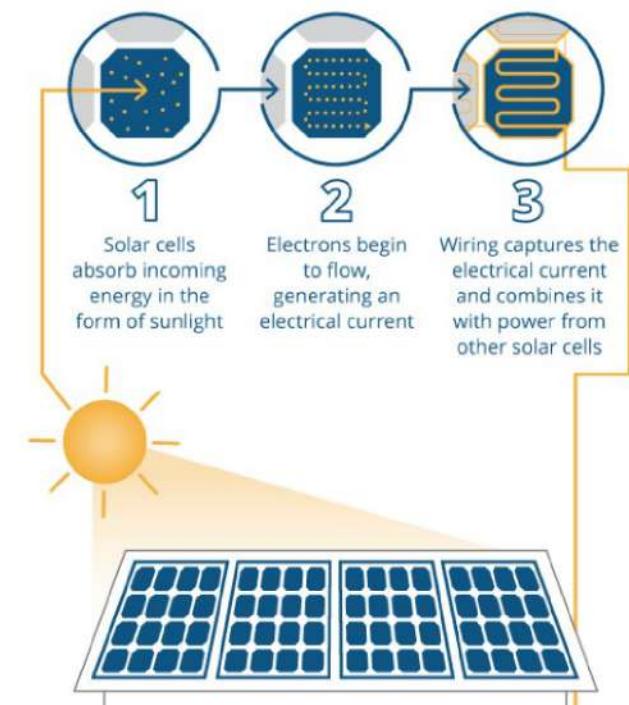
- solar box collector is a device that captures and retains solar energy for heating purposes. It consists of an insulated box with a transparent top and a black-painted interior to maximize heat absorption. The trapped heat can be used for various applications such as cooking, water heating, or space heating.
- Solar panels, or photovoltaic (PV) panels, convert sunlight directly into electricity using semiconductor materials like silicon. These panels can be installed on rooftops or ground-mounted to harness solar energy, providing a sustainable and clean power source for residential, commercial, and industrial use.



Indirect Power Generation Through Box Solar Collector

Details of A Box Solar Collector used for generating Power

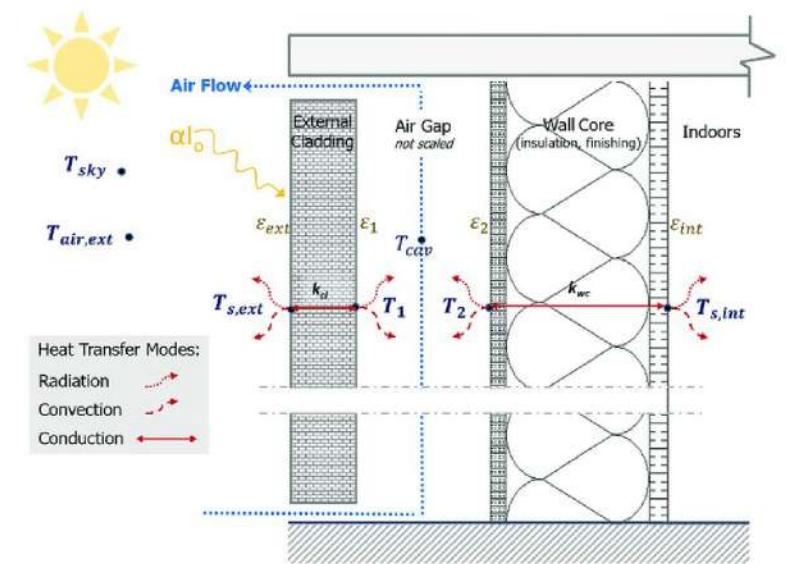
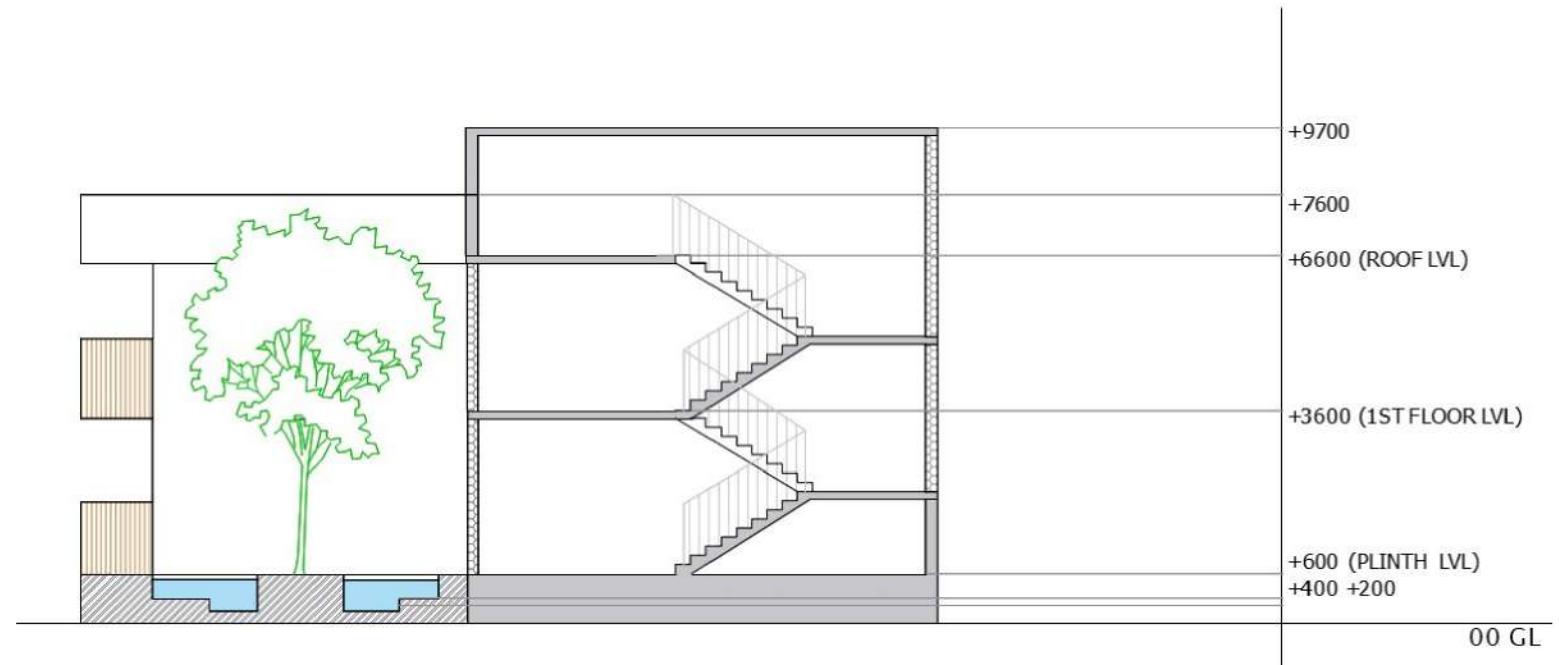
The Frontal roof receives Sunlight maximum time of the day with good intensity, thus ideal for Solar Panel installation.



Power Generation Through Box Solar Panels



Sections



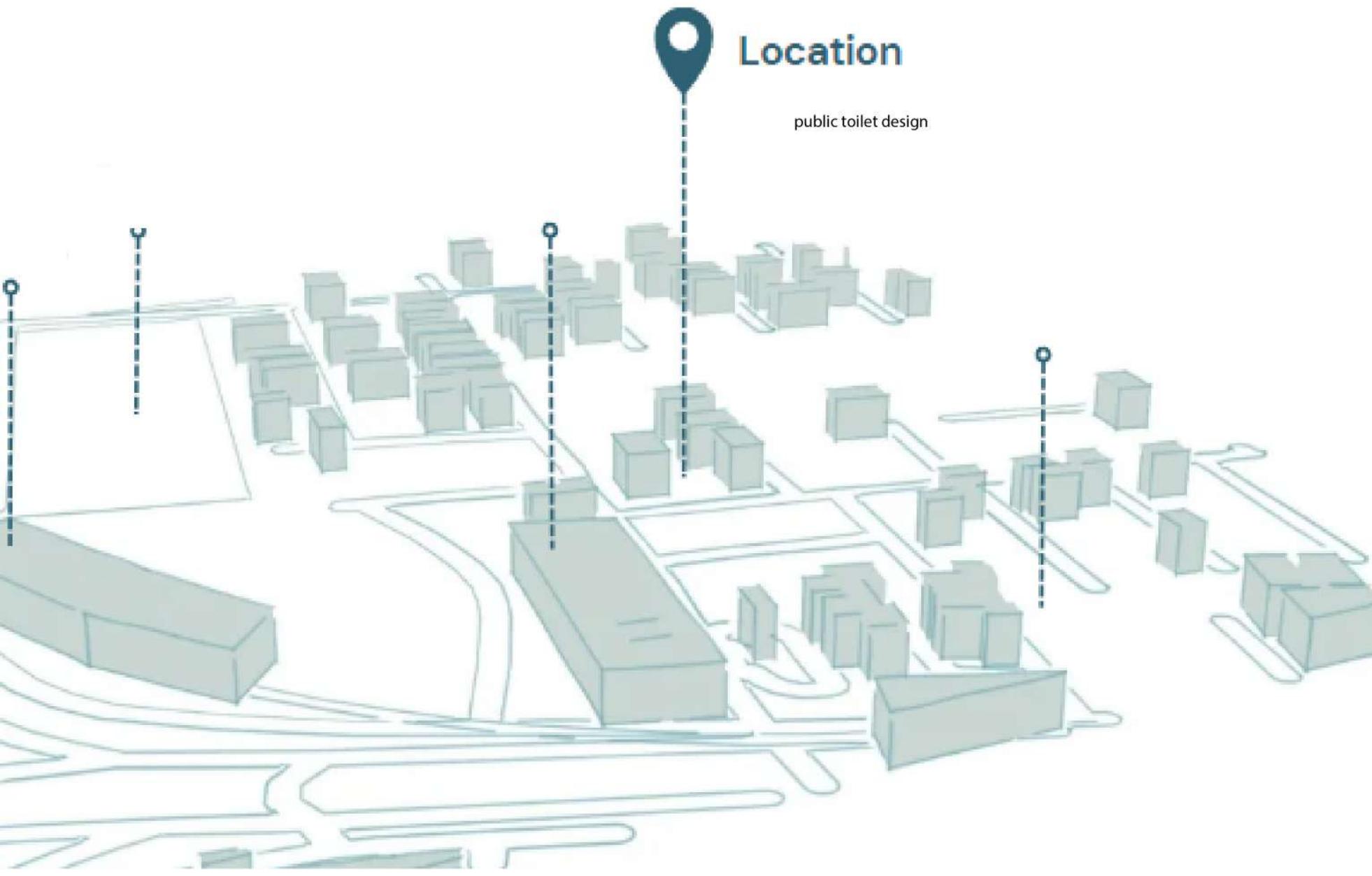
Views



03

Public Toilet Design in New Town,Kolkata

semester 5th sem
Time sketch Project
New Town ,Kolkata
Individual
2023



A 15m. x 10m. plot very near to the prestigious Prinsep ghat, Kolkata is chosen for this problem.

A public toilet (pay and use) and some appropriate innovative functional space is to be designed.

The client could only come-up with the maximum footfall around that landmark during peak visiting seasons/events. However, at the back.

by residential buildings on other sides.

Maximum (average) footfall: 900

You are required to prepare Plan(s) along the site references (eg. access roads, existing vegetations etc.)

Relevant Byelaws:

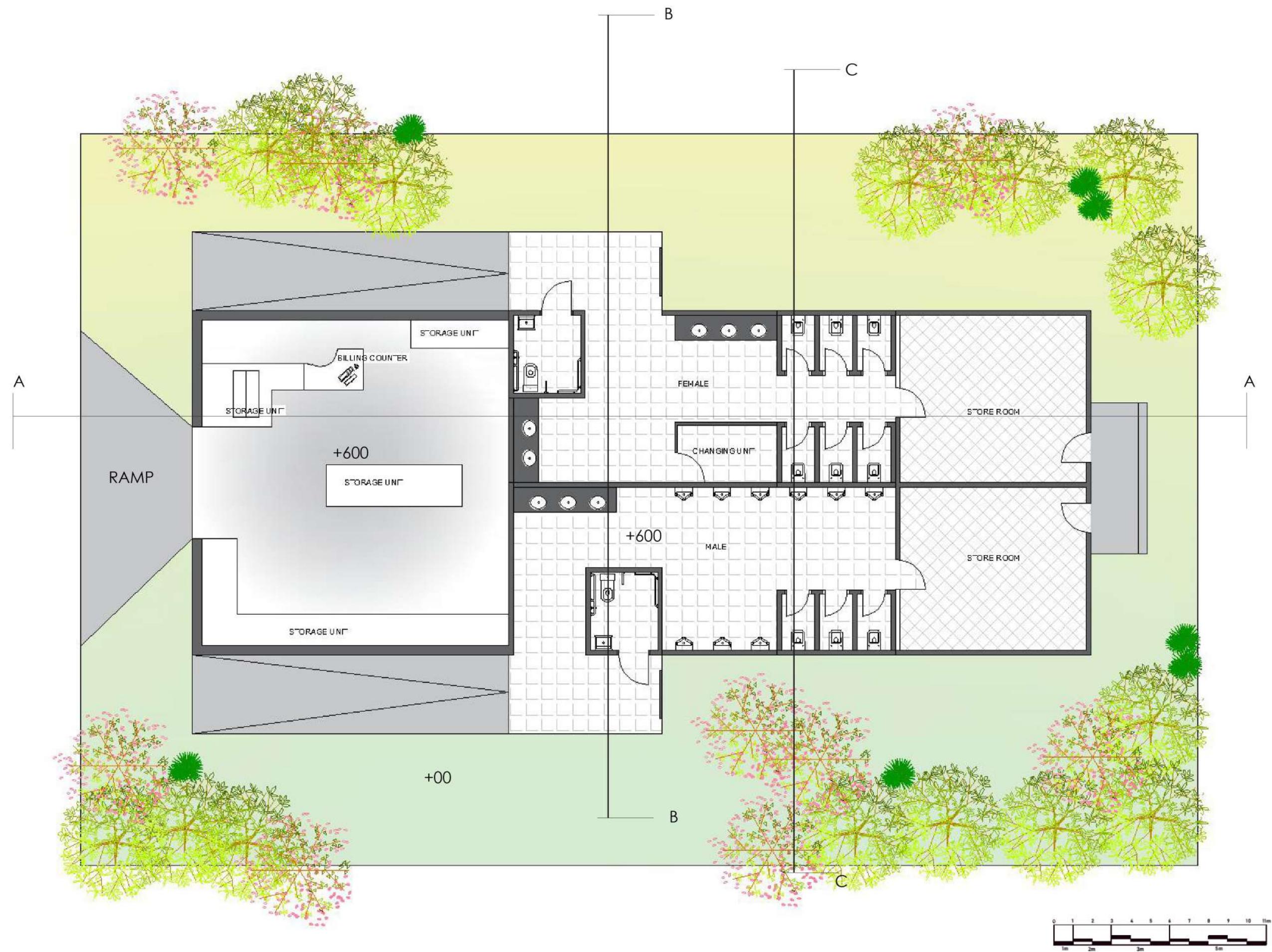
Ground coverage: Max. 40%

Floor Area Ratio (F.A.R.):

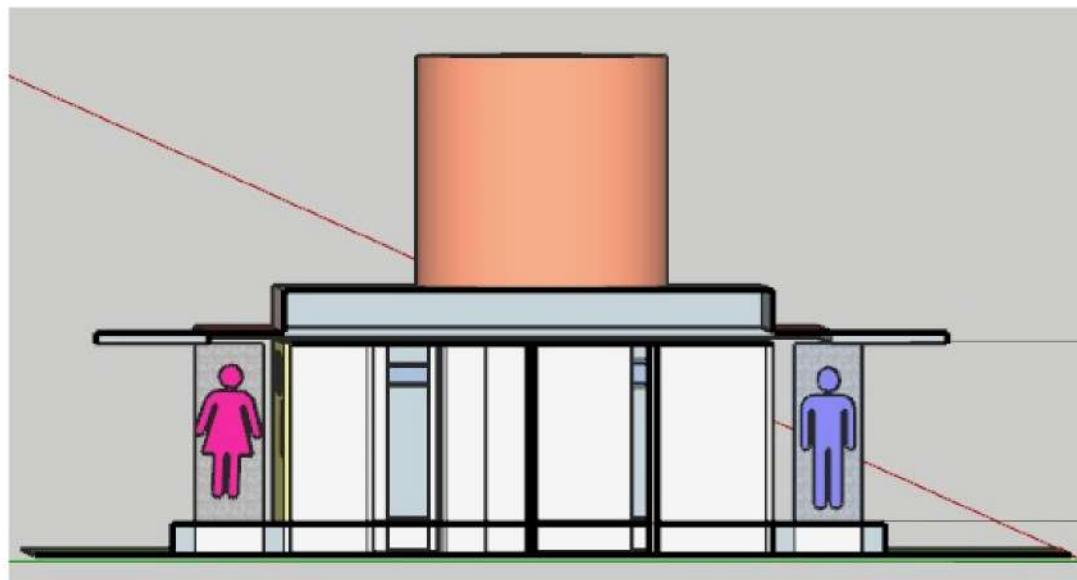
Height: Two storied or partially Two and half storied permissible

Minimum Open space: 2.0m at front, 1.5m at both sides, and 1.5 m at rear.

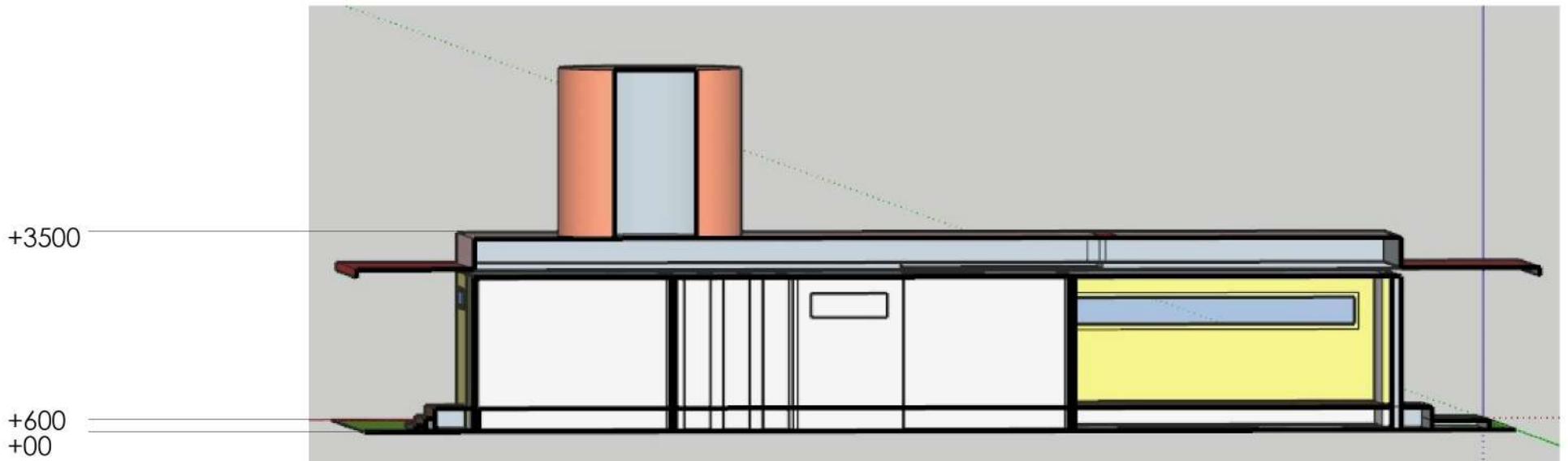
Plans



Sections

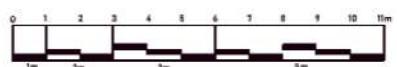


SectiON B-B

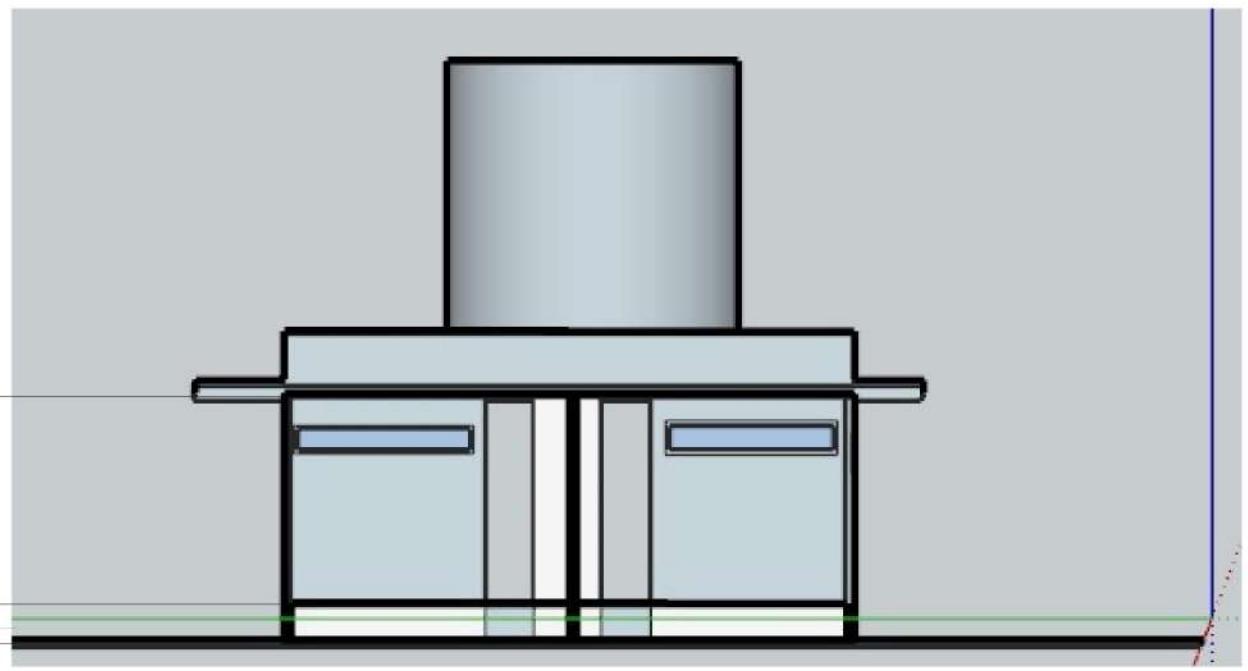


SectiON A-A

+3500
+600
+00

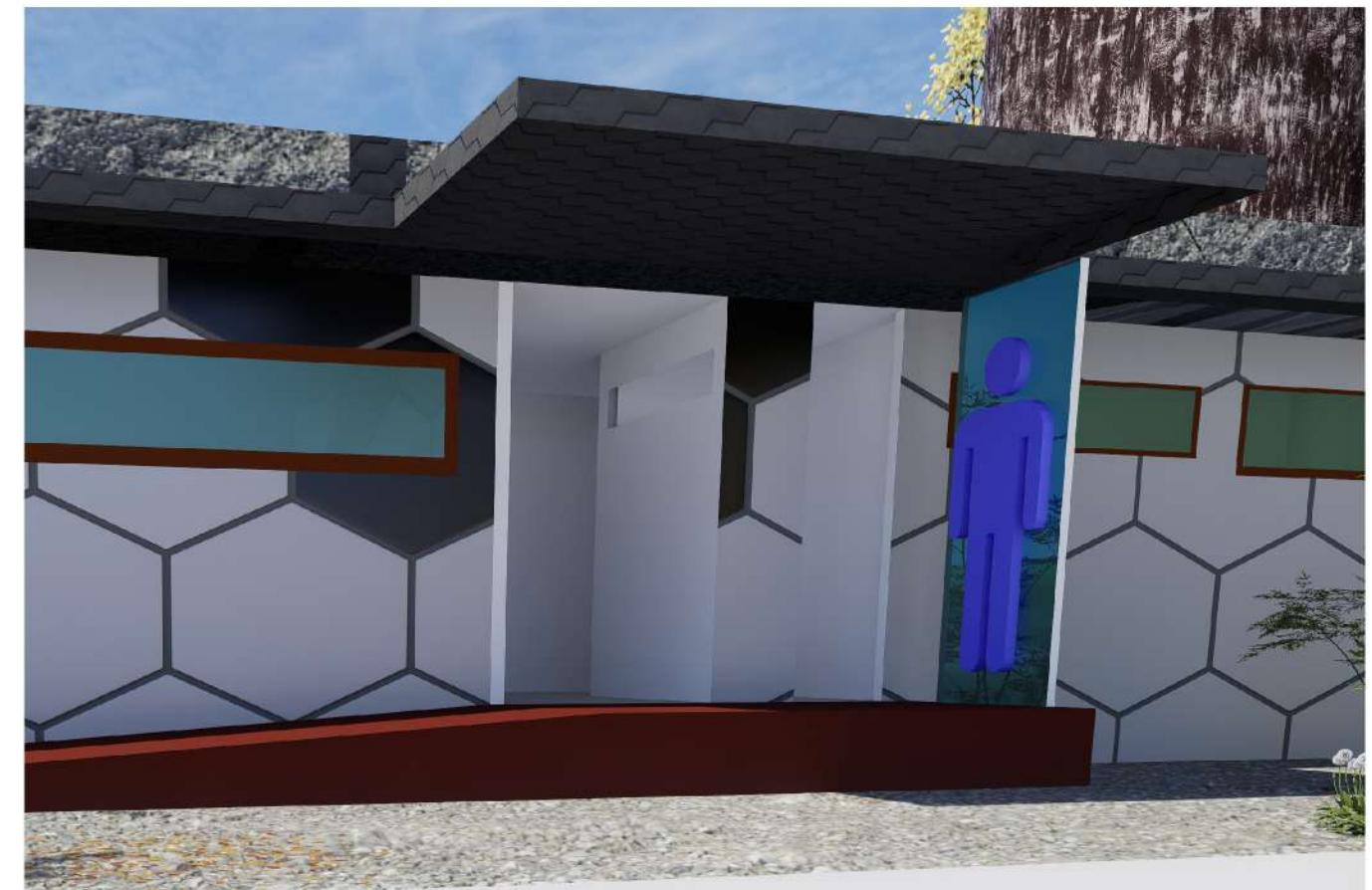


+3500
+600
+00

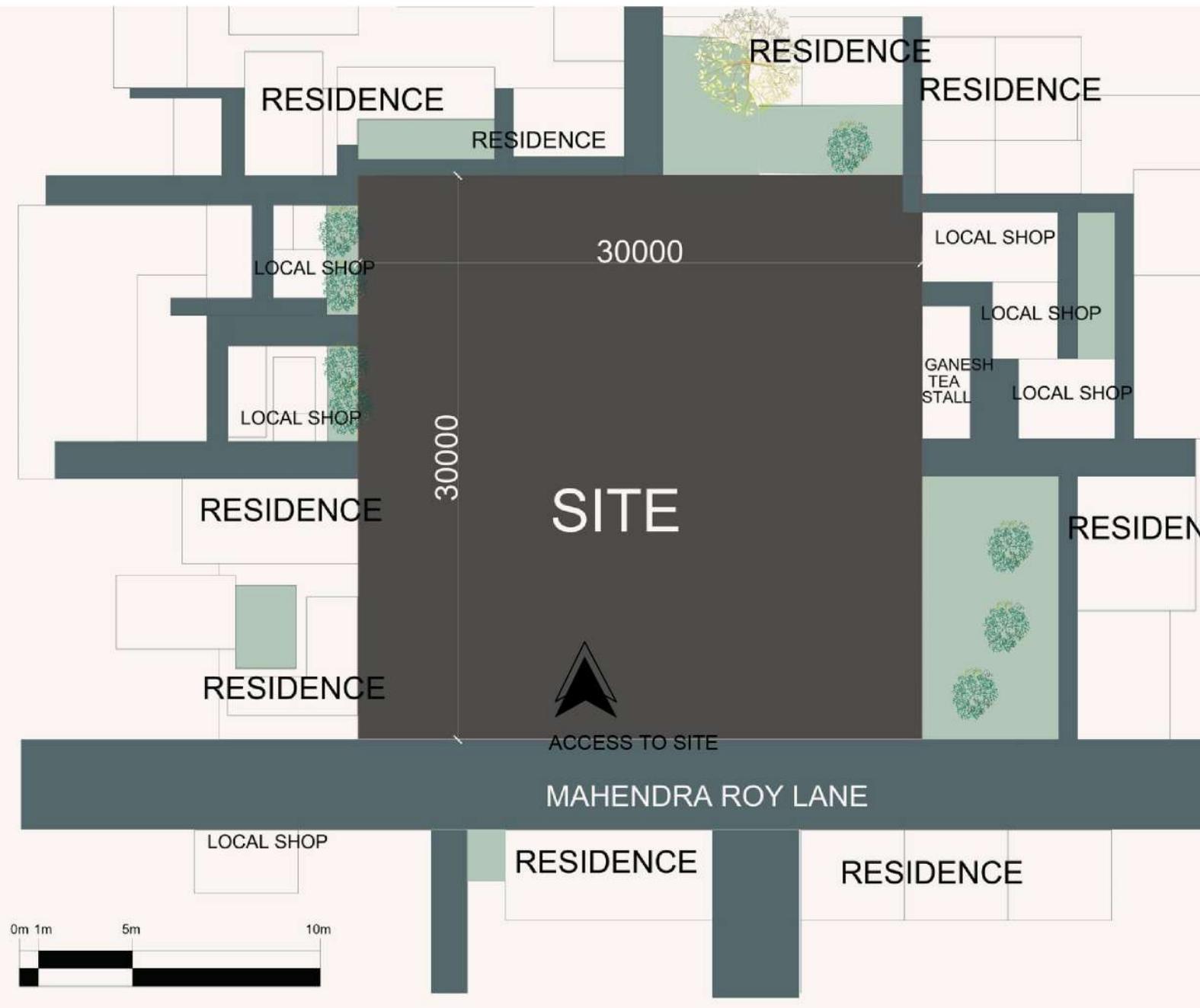


SectiON C-C

Viwes



PARK DESIGN in Parkcircus , kolkata



TOTAL AREA : 900 M²
30M X 30M PLOT AREA

PARK CIRCUS SLUM IS A MELTING POT OF DIVERSE ETHNICITIES. PRIMARILY COMPOSED OF BENGALI MUSLIMS, BOTH NATIVE AND THOSE WHO MIGRATED FROM BANGLADESH, THE AREA ALSO HOUSES SIGNIFICANT POPULATIONS OF HINDUS, CHRISTIANS, AND SIKHS. THIS RICH TAPESTRY OF CULTURES CONTRIBUTES TO THE VIBRANT AND MULTIFACETED CHARACTER OF THE COMMUNITY.



Site context

PARK CIRCUS SLUM IS A MELTING POT OF DIVERSE ETHNICITIES. PRIMARILY COMPOSED OF BENGALI MUSLIMS, BOTH NATIVE AND THOSE WHO MIGRATED FROM BANGLADESH, THE AREA ALSO HOUSES SIGNIFICANT POPULATIONS OF HINDUS, CHRISTIANS, AND SIKHS. THIS RICH TAPESTRY OF CULTURES CONTRIBUTES TO THE VIBRANT AND MULTIFACETED CHARACTER OF THE COMMUNITY.



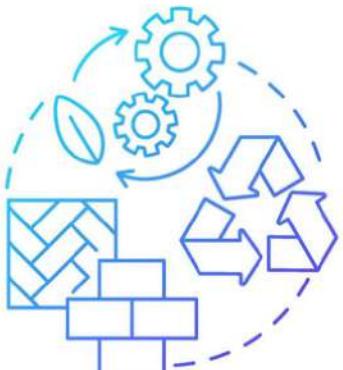
concept

THE CHAAR BAGH CONCEPT OFFERS A COMPELLING FRAMEWORK FOR INTUITIVE NAVIGATION AND SPATIAL ORGANIZATION. BY DIVIDING A SPACE INTO FOUR EQUAL QUADRANTS, IT ESTABLISHES CLEAR VISUAL AND SPATIAL HIERARCHIES. THIS GEOMETRIC CLARITY ENHANCES WAYFINDING, ALLOWING USERS TO EASILY ORIENT THEMSELVES AND LOCATE DESIRED DESTINATIONS.

EXCLAIMING FAMILIARITY AND EXPLORING LOCAL IDENTITY

ADDITIONALLY, THE SYMMETRICAL LAYOUT FOSTERS A SENSE OF BALANCE AND HARMONY, CREATING A VISUALLY PLEASING AND PSYCHOLOGICALLY COMFORTING ENVIRONMENT. THIS DESIGN PRINCIPLE ALSO OPTIMIZES SPACE UTILIZATION AND FACILITATES EFFICIENT CIRCULATION PATTERNS, MAKING IT SUITABLE FOR A WIDE RANGE OF APPLICATIONS ON URBAN FABRIC.

WE PROUDLY EXCLAIM OUR FAMILIARITY WITH SUSTAINABILITY THROUGH THE MYRIAD OF PRACTICES ALREADY INTEGRATED INTO OUR DAILY LIVES. RECYCLING, CONSERVING ENERGY, AND OPTING FOR ECO-CONSCIOUS PRODUCTS ARE JUST A FEW EXAMPLES OF HOW WE'VE EMBRACED GREENER CHOICES. THESE FAMILIAR ACTIONS NOT ONLY REFLECT OUR COMMITMENT TO THE ENVIRONMENT BUT ALSO DEMONSTRATE THE FEASIBILITY OF SUSTAINABLE LIVING ON A PERSONAL LEVEL.

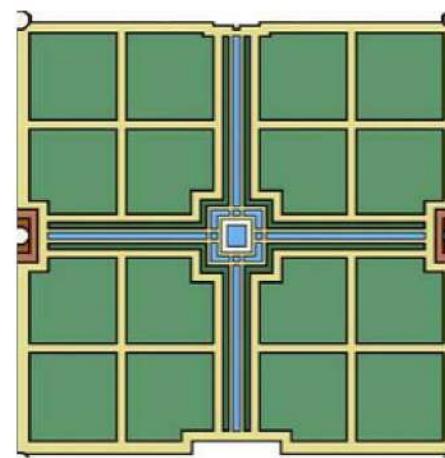


A N A L Y S I S
THE SITE HAS A LOT OF POTENTIAL FOR BEING A SUSTAINABLE COMMUNITY SPACE BECAUSE OF ITS STRATEGIC PLACEMENT AMONG THE RESIDENTIAL AND COMMERCIAL AREAS.

THE SITE IS LOCATED IN SUCH A PLACE IN KOLKATA THAT IT EXPERIENCES HEAVY WATER LOGGING DUE TO ITS POOR DRAINAGE SYSTEM AND RAPID HARDENING OF GROUND WHICH INHIBITS PERCOLATION.

THE SITE PLAYS A GREAT ROLE IN ESTABLISHING CONNECTIVITY BETWEEN THE EXISTING ESTABLISHMENTS AROUND IT.

MAJORLY THE DIVERSITY OF THE ETHNICITIES AROUND IT MAKES IT DIFFICULT TO BE AN EXCLUSIVE DESIGN FOR ALL ORTHODOX MINDSETS.



Z O N I N G
HAVING THE PUBLIC TOILET ON THIS PORTION FACILITATES THE EASE FOR THE USERS AS WE FIND MORE DENSE SETTLEMENTS AND AN ALREADY EXISTING BUFFER ZONE BY TREES.

THE LOGIC BEHIND PUTTING THE PLAY GROUND ZONE FOR THE YOUNG ADULTS AND KIDS, IS BECAUSE OF THE WIDE FRONTAGE (EASY TO SPECTATE) AND MUTUAL SHADING WHEN THE SUN GOES AROUND ESPECIALLY DURING THE PLAYING HOURS WHICH IS THE LATE AFTERNOON.

CLIMATIC CONDITIONS



KOLKATA EXPERIENCES A TROPICAL SAVANNA CLIMATE WITH DISTINCT WET AND DRY SEASONS.

HOT AND HUMID SUMMERS: TEMPERATURES SOAR DURING SUMMER (APRIL-JUNE), OFTEN EXCEEDING 40°C WITH HIGH HUMIDITY LEVELS.

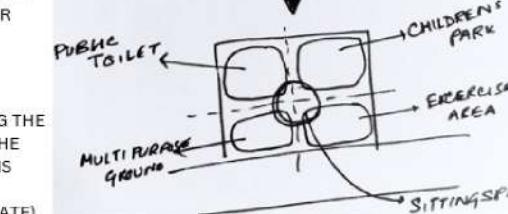
THE CITY RECEIVES HEAVY RAINFALL FROM JUNE TO SEPTEMBER, WITH JULY AND AUGUST BEING THE WETTEST MONTHS.

WINTERS (DECEMBER-FEBRUARY) ARE RELATIVELY MILD WITH COMFORTABLE TEMPERATURES.

OCCASIONAL PRE-MONSOON THUNDERSTORMS (KAL BAIKASHI) BRING RELIEF FROM THE SUMMER HEAT. KOLKATA IS SUSCEPTIBLE TO CYCLONES DURING THE POST-MONSOON PERIOD.

THE SPACE IS MOSTLY DIVIDED INTO FOUR ZONES WITH INTERMITTENT SPACES AND PROPORTIONS GUIDED BY OUR CONCEPT OF CHAAR BAAGH AND SURROUNDING LAND USE TYPE AS SUGGESTED BY THE SITE CONTEXT. TRANSIT-ORIENTED DEVELOPMENT CAN INTEGRATE WORKSPACES WITH PUBLIC TRANSPORTATION. THIS REDUCES COMMUTES AND CAR DEPENDENCE, CREATING A MORE SUSTAINABLE AND CONNECTED CITY.

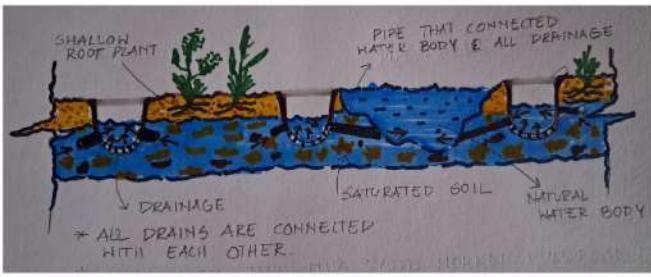
BY EMBRACING THESE ZONING CHANGES, CITIES CAN TRANSFORM INTO VIBRANT, WALKABLE COMMUNITIES THAT SUPPORT THE NEW AND EVER-CHANGING WORLD OF WORK.



CHILDREN'S PARK IS STRATEGICALLY PLACED HERE FOR EASY VIGILANCE OF THE PEOPLE WHO MIGHT ACCOMPANY THEM AND WOULD LIKE TO HAVE SOME SCENIC REFRESHMENTS OR EVEN SMALL EQUIPMENTS OF EXERCISE. AN EXERCISE AREA FOR ADULTS ALONG WITH A REFRESHING WATER FEATURE. ALSO THIS AREA FACES THE FAMOUS 'GANESH TEA STALL' WHICH IS AN IMPORTANT SIDE OF THIS PROJECT.

CENTRAL SITTING SPACE TO GIVE A PANOROMIC VIEW OF THE SPACE AND ALSO AN EASE TO GET FAMILIAR TO THE ENTIRE DESIGN VISUALLY.

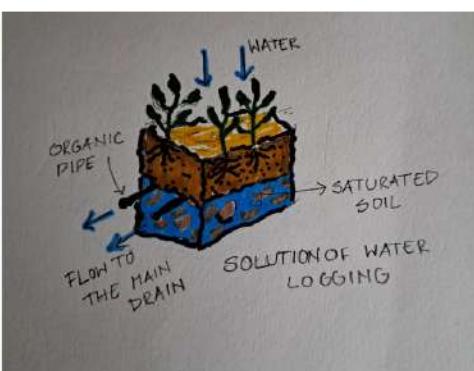
Plan



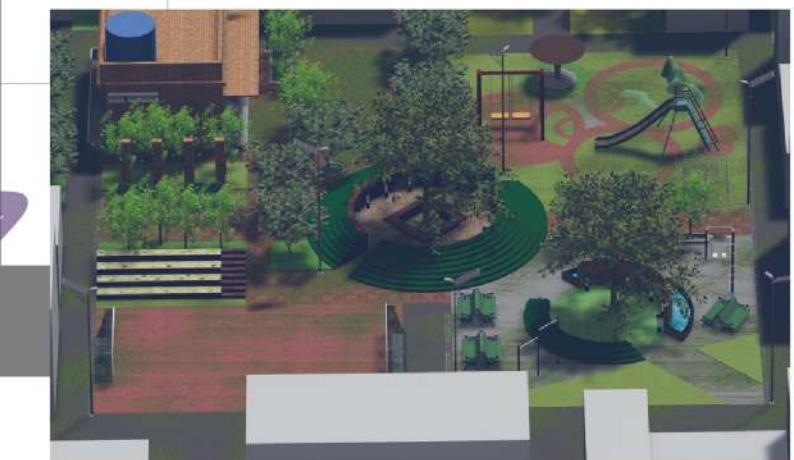
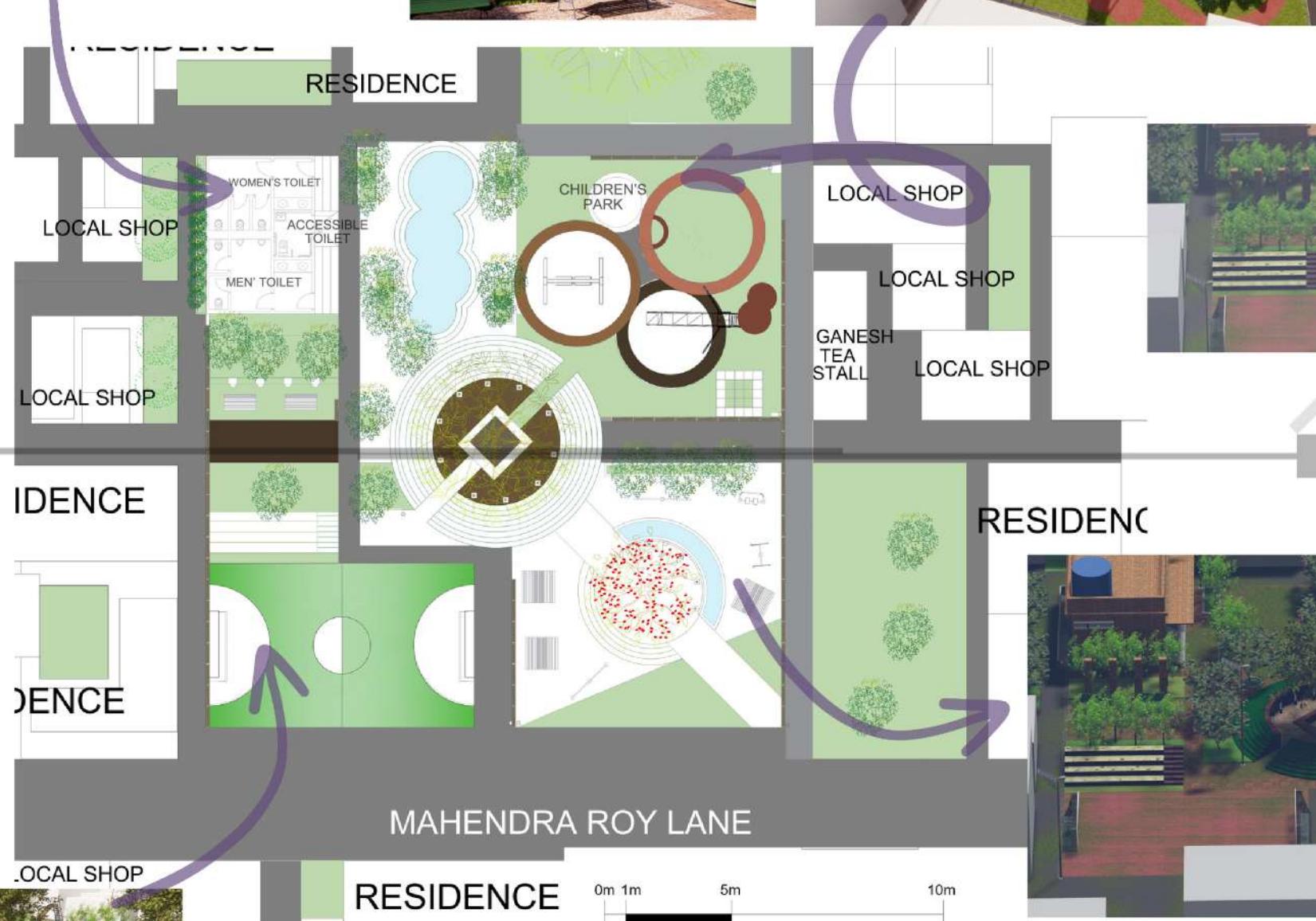
DRAINAGE SYSTEMS CAN BE TRANSFORMED FROM MERE FUNCTIONAL NECESSITIES INTO STRIKING DESIGN ELEMENTS IN WATERLOGGED AREAS BY INTEGRATING DRAINAGE INFRASTRUCTURE WITH LANDSCAPING AND ARCHITECTURAL FEATURES.

IT'S POSSIBLE TO CREATE VISUALLY APPEALING AND SUSTAINABLE SPACES. FOR INSTANCE, OPEN DRAINS CAN BE LINED WITH STONES OR TILES AND INCORPORATED INTO GARDEN PATHWAYS, WHILE UNDERGROUND DRAINAGE SYSTEMS CAN BE COMPLEMENTED BY WATER FEATURES OR RAIN GARDENS.

THIS APPROACH NOT ONLY ADDRESSES THE PRACTICAL ISSUE OF WATERLOGGING BUT ALSO ENHANCES THE OVERALL AESTHETIC APPEAL OF THE ENVIRONMENT.



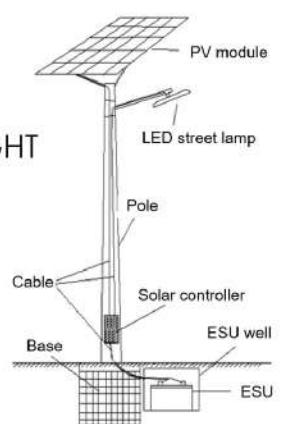
DRAINAGE AS DESIGN ELEMENT



SUNLIGHT STRIKES THE SURFACE OF A SOLAR PANEL

SOLAR CELLS WITHIN THE PANEL ABSORB THE SUNLIGHT

SUNLIGHT ENERGY IS CONVERTED INTO ELECTRICAL
CURRENT (DC)
INVERTER CONVERTS DC CURRENT INTO
AC CURRENT
(USABLE



Section



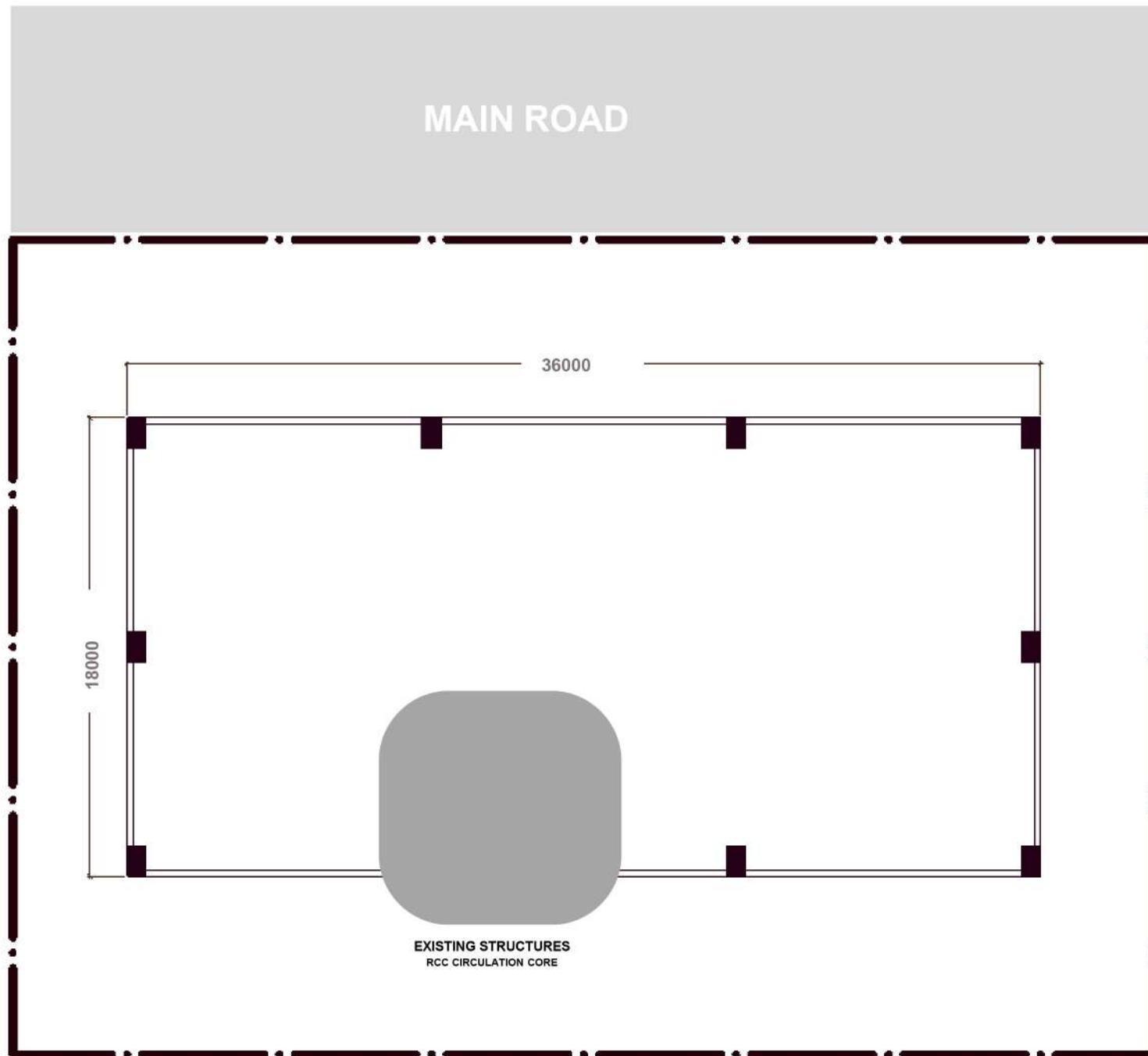
RENDERED VIEW





05

zeal, Automobile company



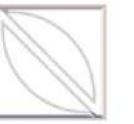
TOTAL AREA : 648 M²v
36M X 18M PLOT AREA

zeal

Zeal Automotive is a 2024 based automobile brand that mainly focusses on high performance super luxury electric vehicles. Battling out the notions of Petrolheads versus the EV industry, Zeal ensures that the green and cutting edge technology is accompanied with the comfort, luxury and homely Indian requirements.



Interior Design class
Work
Group work
2024



User group

Expecting at most 2 purchases per day, The user groups and quantities can be concluded as :

Purchasers - Two in groups of 3-4 at most, totaling out to be maximum of 8.

The Dealers - Considering mainly the attendees(3), manager(1), accountants(3), engineers(2). All in all about 9-10 staff members.



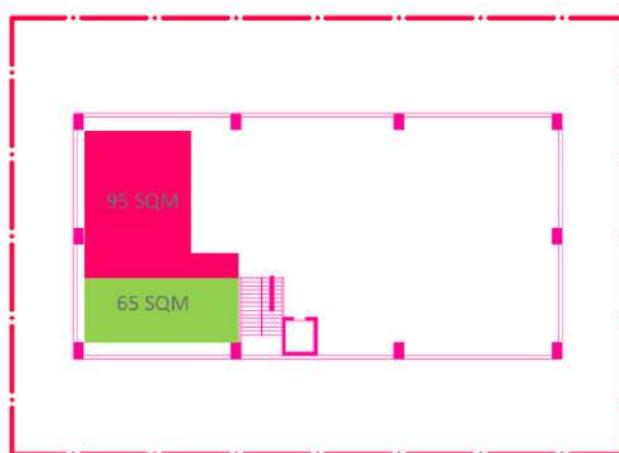
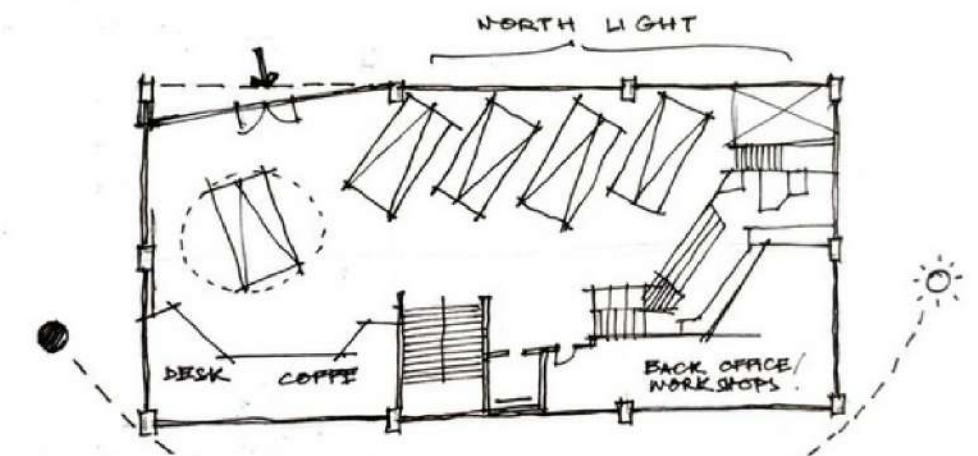
color choice



Using the 60-30-10 rule to select colours. The desired colours or rather finishes add to a warm aspect of the space, keeping customers comfortable. The rose gold highlights would

Concept

Our design ethos revolves around showcasing these marvels of engineering in a manner that captivates and inspires. With accent walls adorning the space, cars are proudly displayed vertically, commanding attention from every angle. The inclusion of gallery seating ensures that visitors can admire these automotive masterpieces in comfort, while rotating decks add an element of dynamism to the display, ensuring every car gets its moment in the spotlight. Our unique selling propositions lie in the seamless fusion of technology and aesthetics, offering a truly immersive experience for enthusiasts and casual observers alike.



First floor

Mezzanine floor

Ground floor

- Paperworks
- Admin

zoning

Simulator room.

- Display
- Lifestyle
- Stepped Lounge
- Storage



BEIGE ARM CHAIR
ATELIER/ WAITING



MID HEIGHT MANDELA
CHAIRS (+550 HIGH)
SIMULATION ROOM



SWIVEL TUB CHAIRS
OFFICES



ERGONOMIC CHAIRS
OFFICES

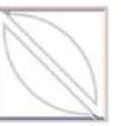


HYBRID OFFICE DESK
OFFICES



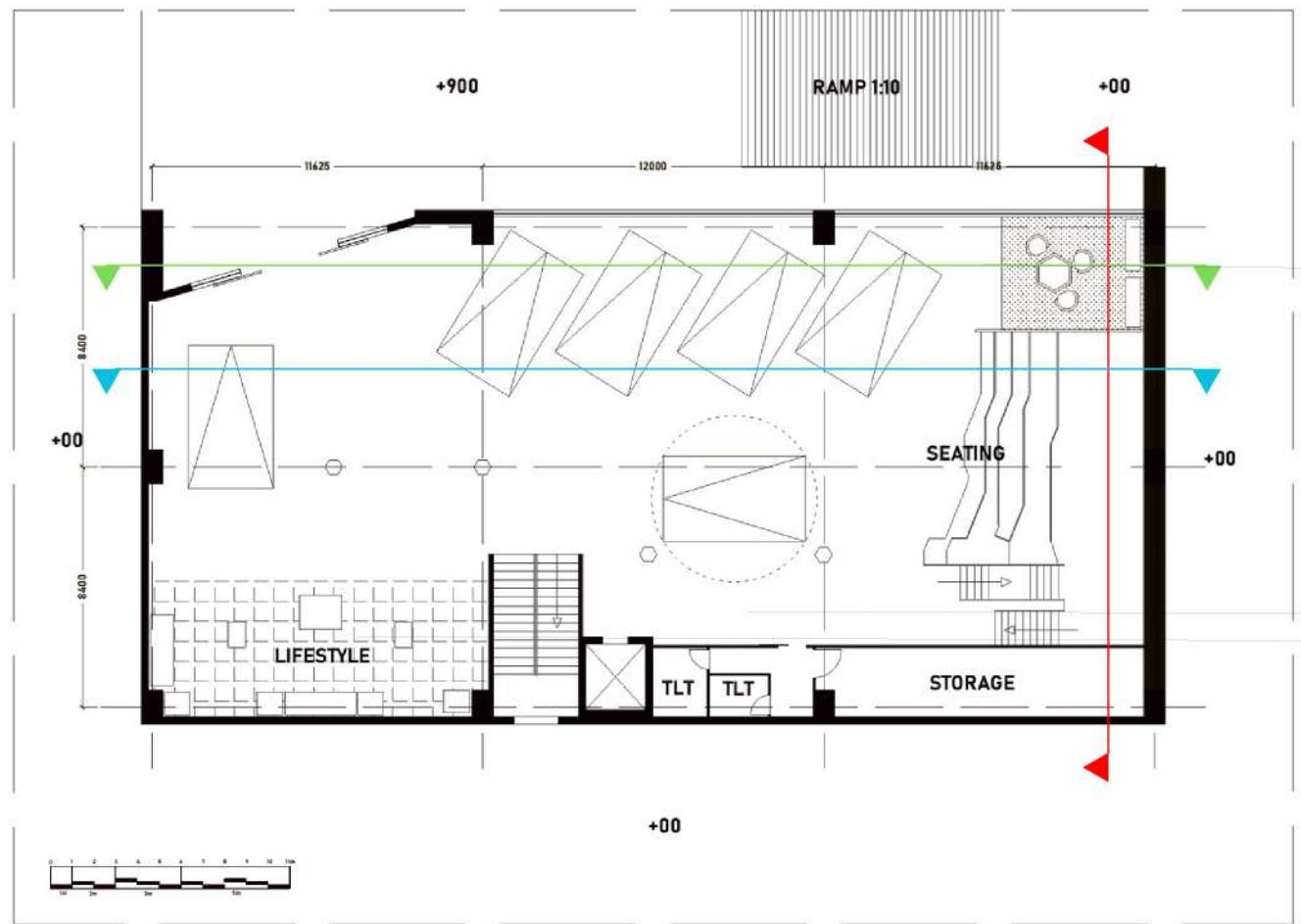
HEXAGONAL COFFEE TABLE
ATELIER/WAITING

Furniture



Plan

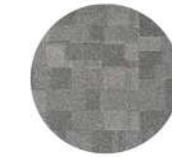
Ground floor



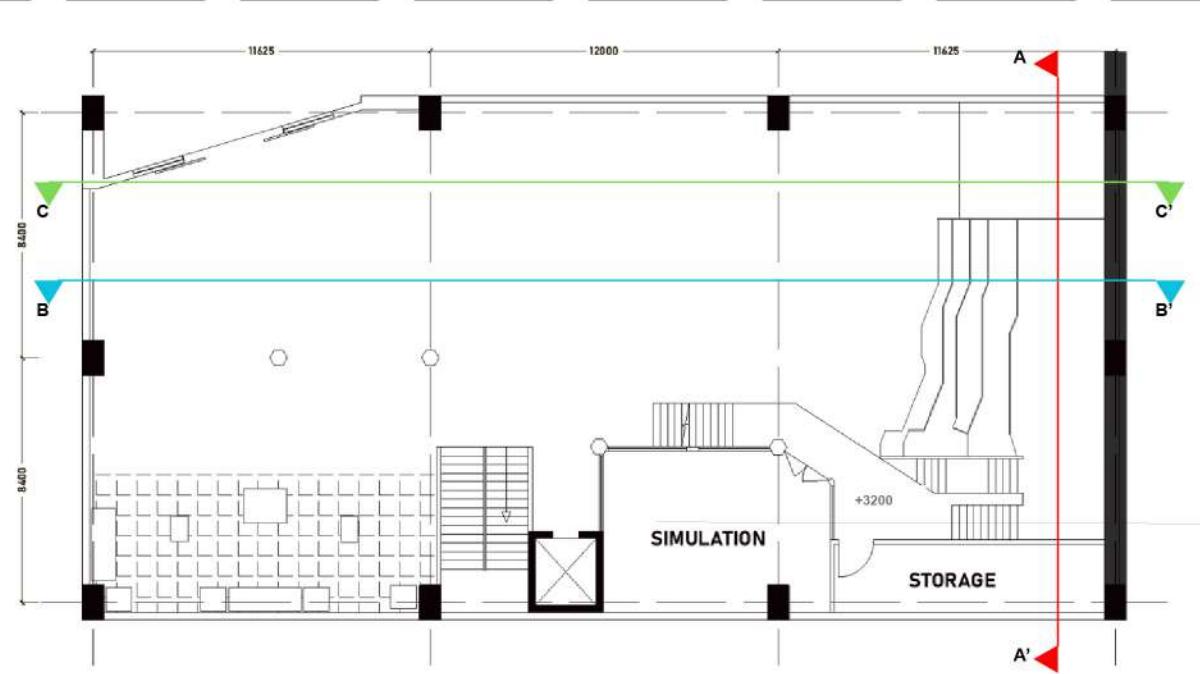
Carpet identifying the atelier where customers can sit and customize their



Carpet identifying the waiting lounge in front of paperworks office



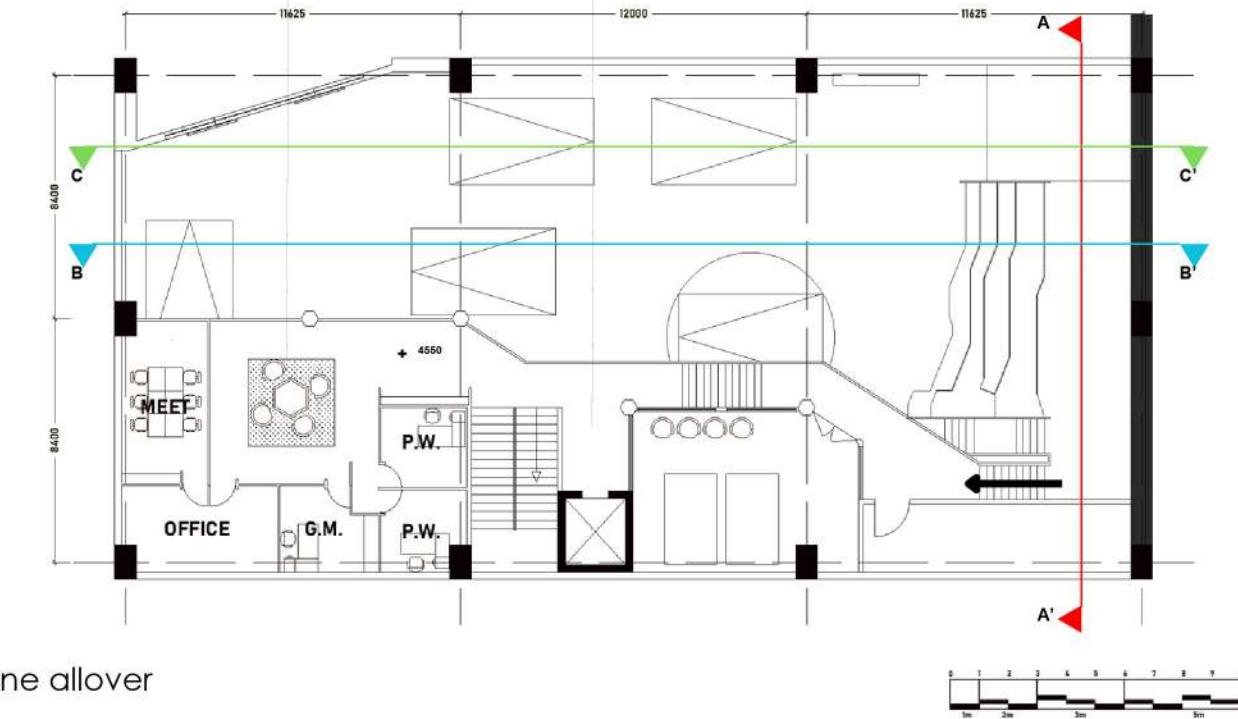
Durable Kota stone



Durable Kota stone
Carpeting denoting the lifestyle section



Durable Kota stone allover

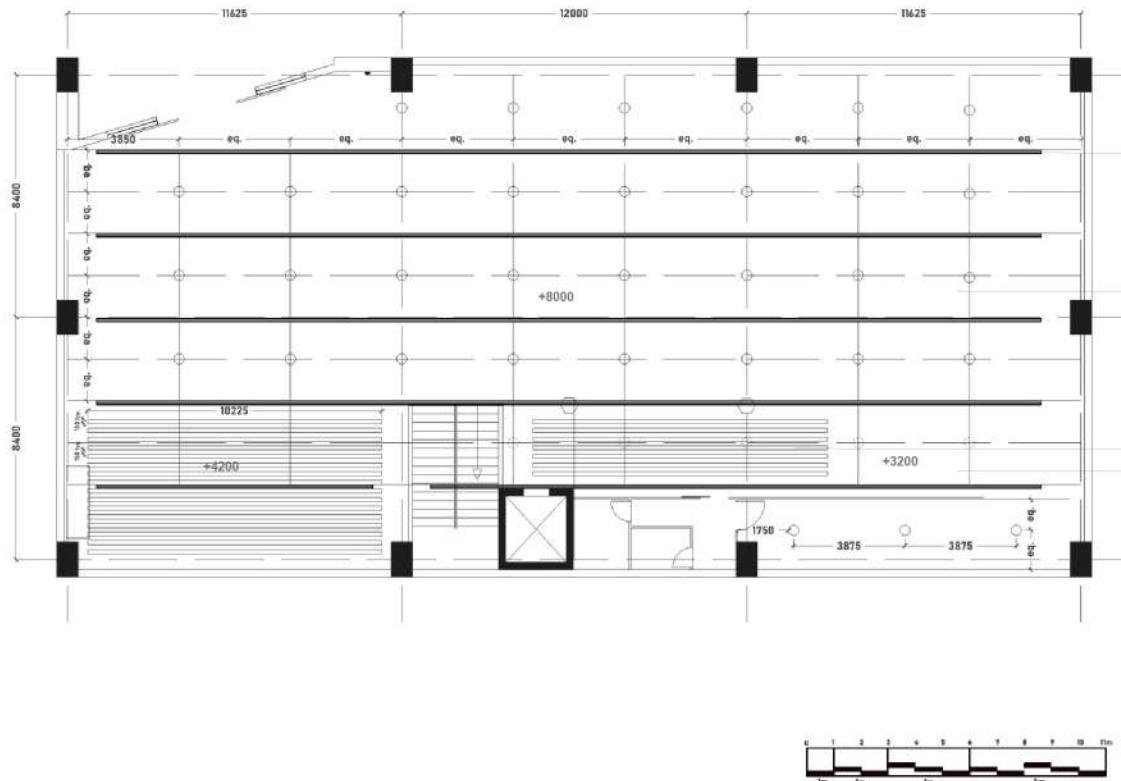


Mezzanine floor

1ST floor

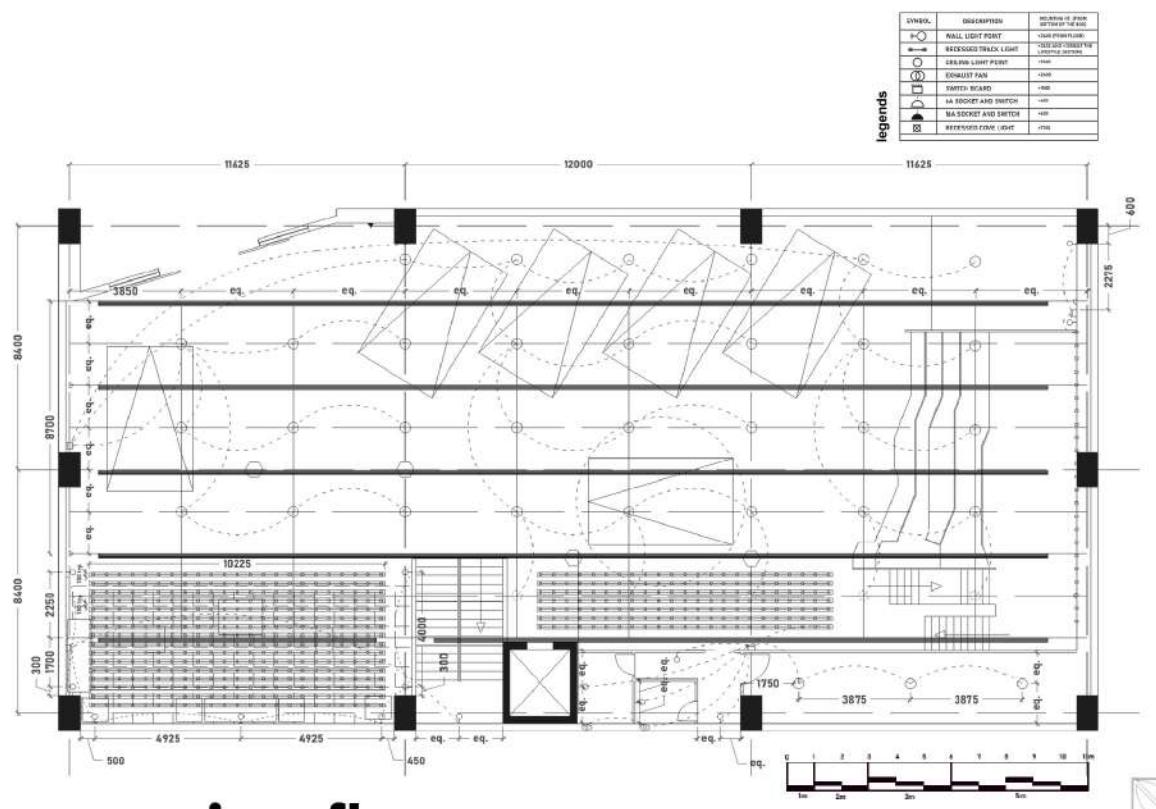
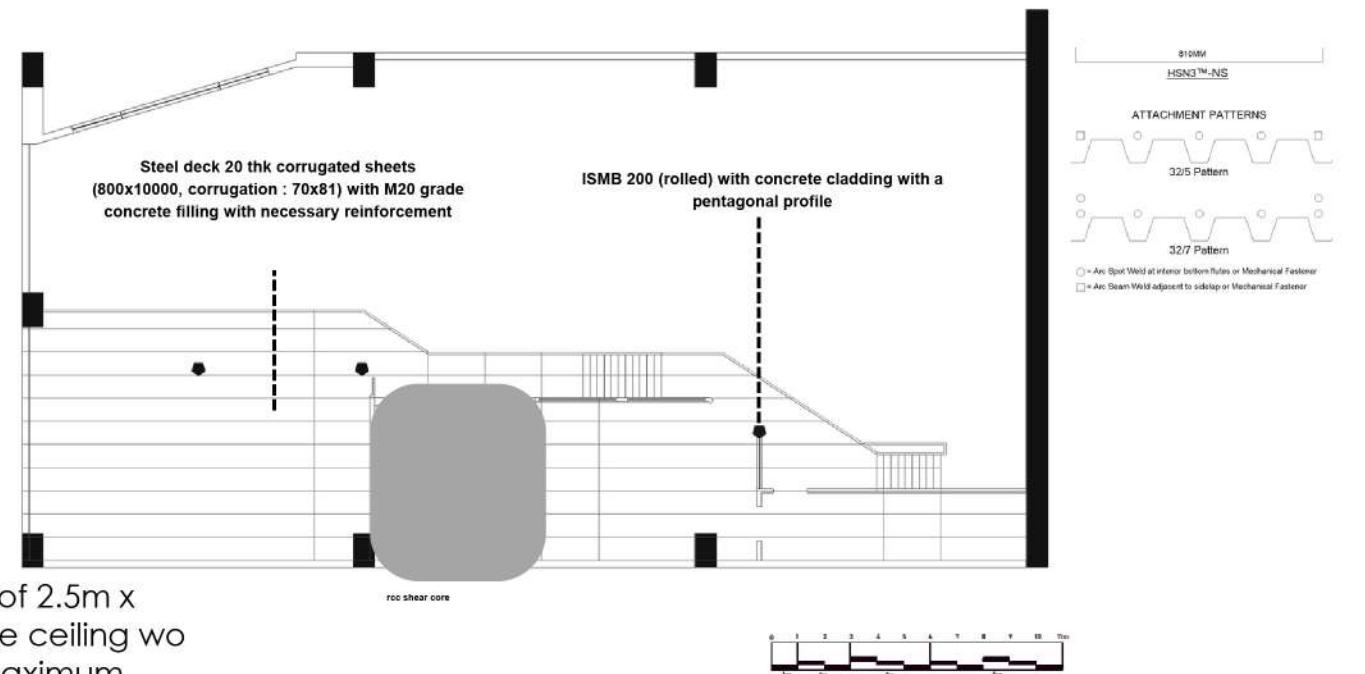
Ceiling plan

Ground floor

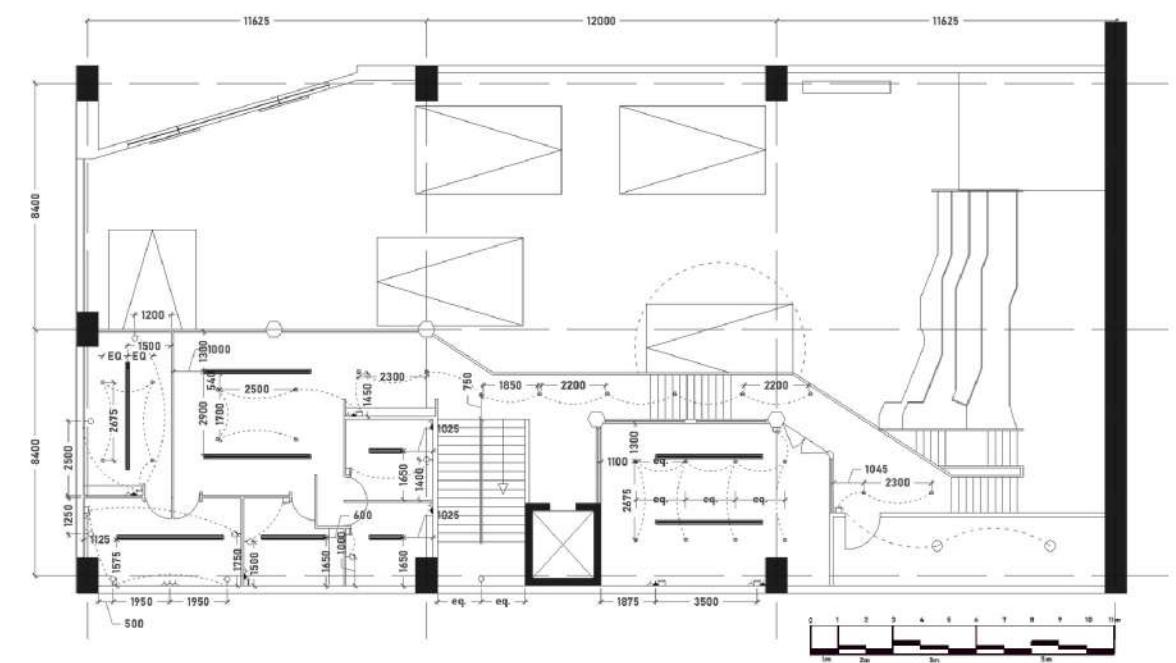


Multi spot-light arrangement,
placed in a grid of 2.5m x
3.85m ,White false ceiling wo
reflect around maximum
natural light

Timber
horizontal
battens
with recessed

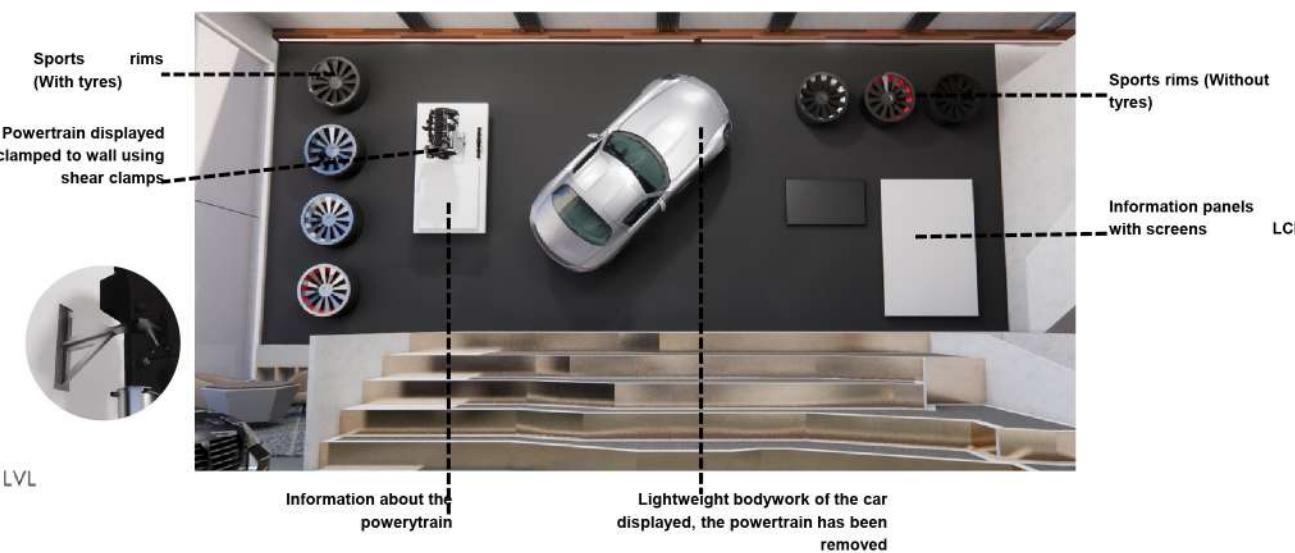
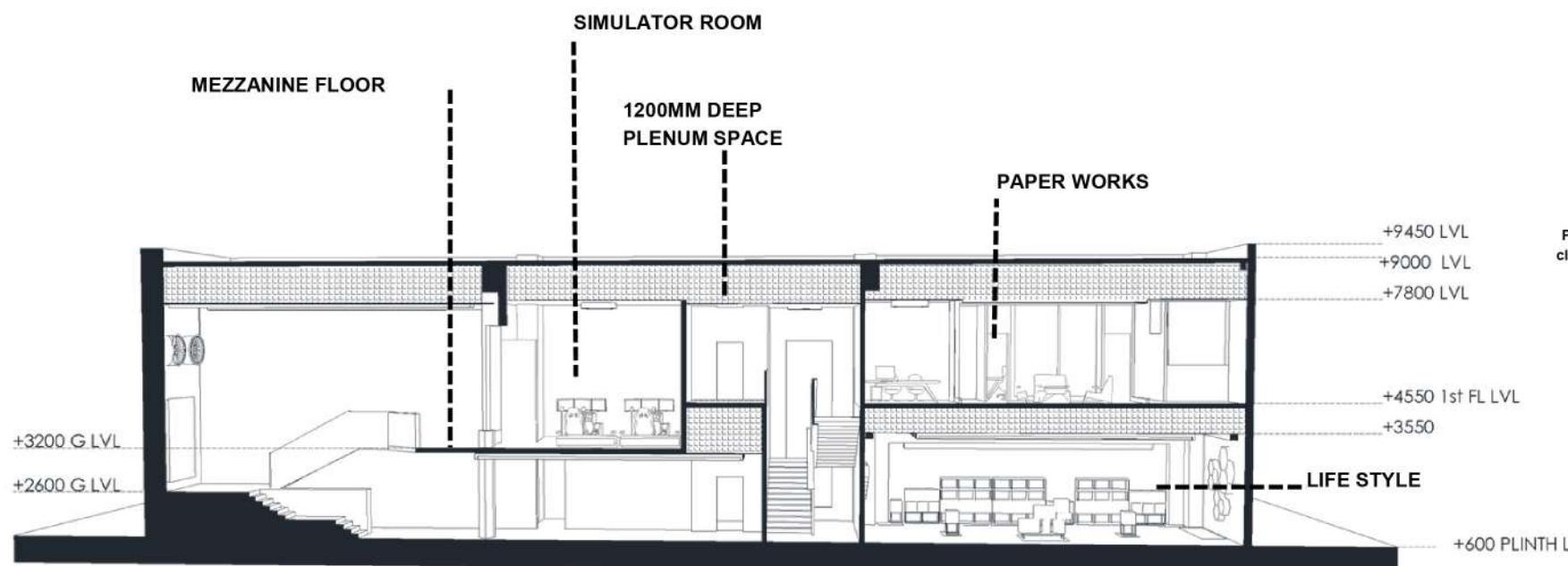
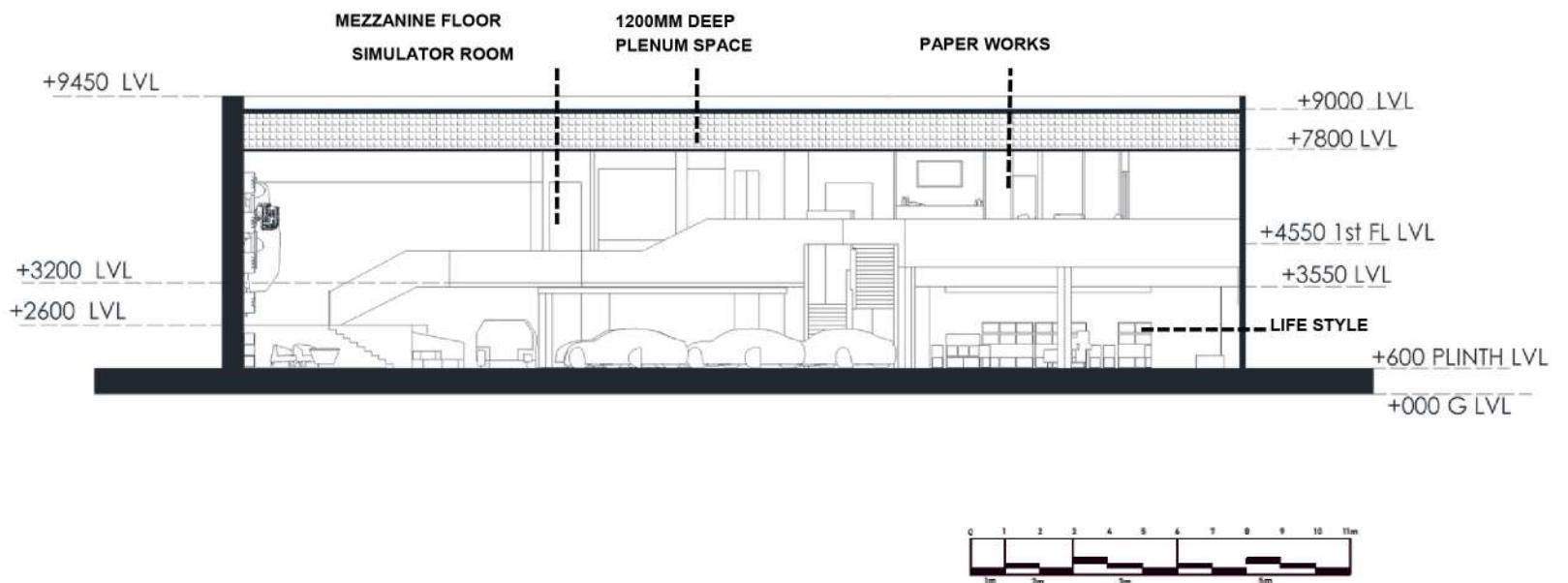
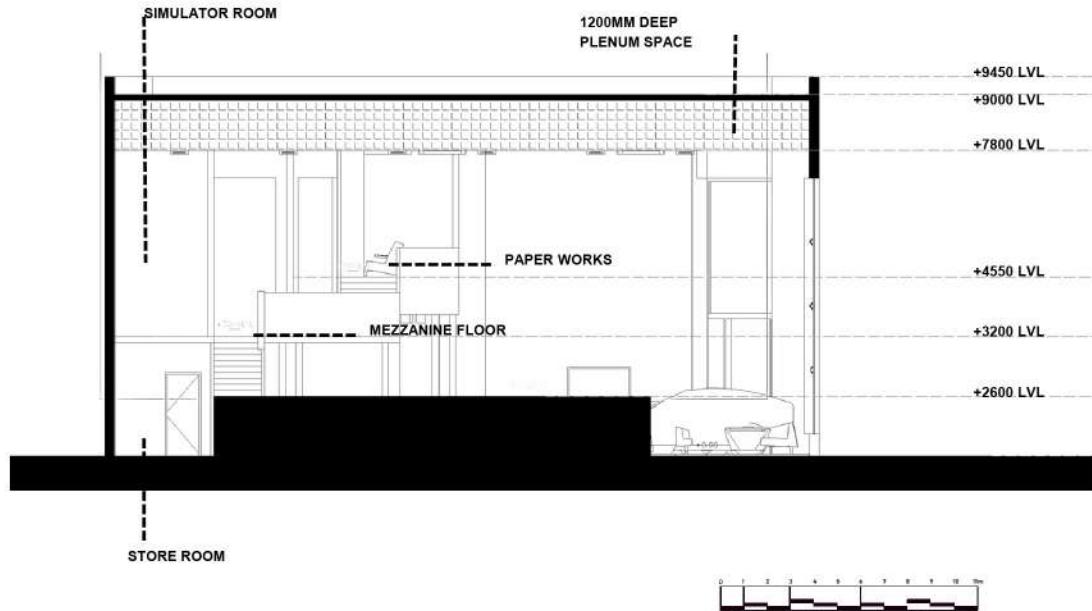


mezzanine floor

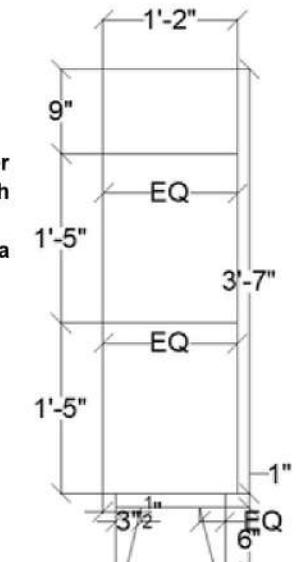
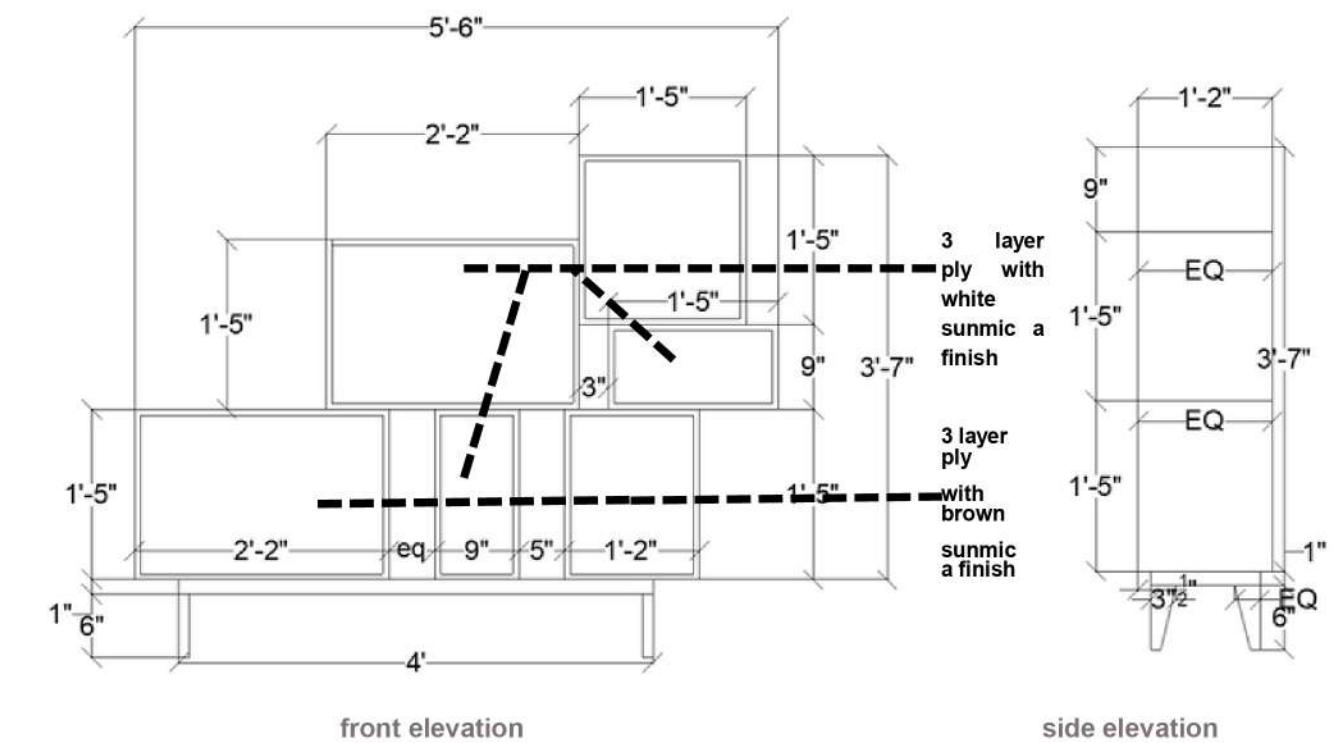
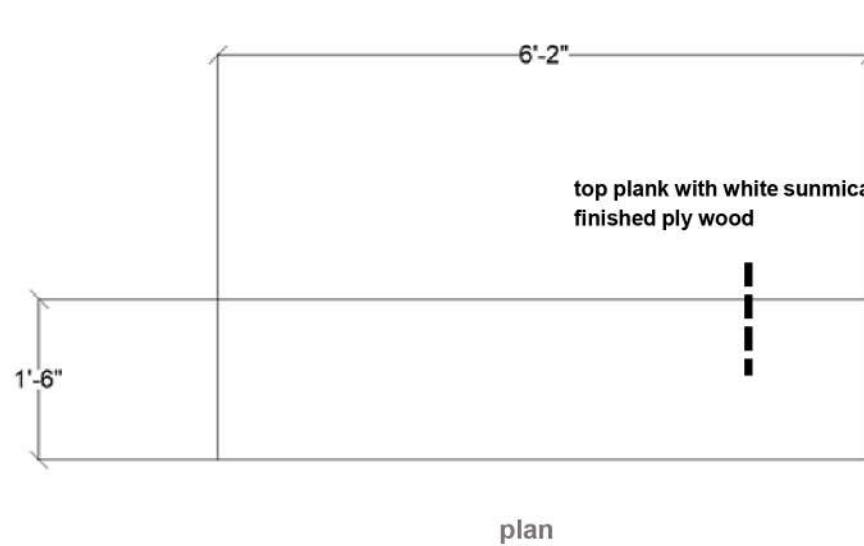
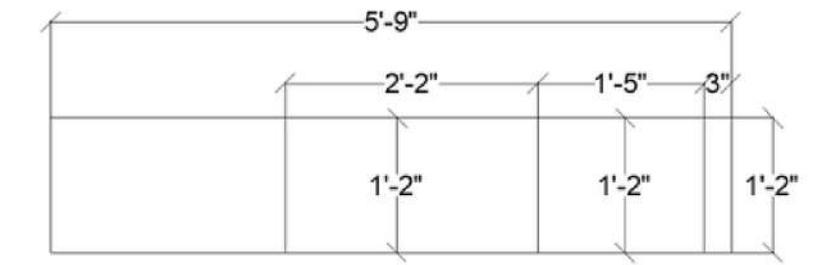
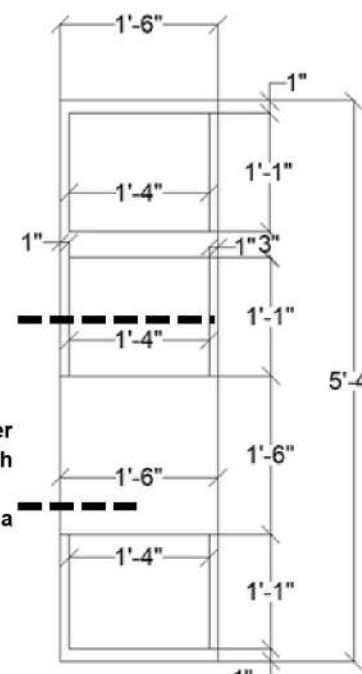
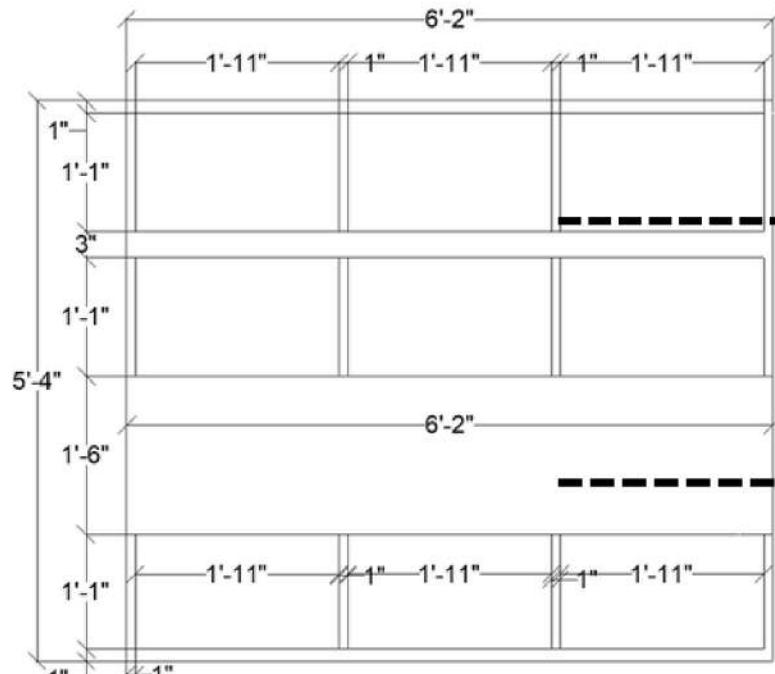


mezzanine first floor

Section



Furniture details



BOQ

S.No.	ITEMS	DESCRIPTION	UNIT	NO.	AREA/LENGTH/VOLUME	RATE	AMOUNT
Project	ZEAL AUTOMOBILE CENTER						
S.No.	ITEMS		UNIT	NO.	AREA(FT)	RATE	AMOUNT
1	Civil Work						
	Plastering on wall & ceilings						
	Plaster on internal walls in Mortar Ratio 1:5 (one part of cement: 5 part of Jamuna sand / Badarpur mixed in 3 to 1 ratio) a) Plastering on ceiling shall be in ratio 1:3 (one part of cement: 3 part of Jamuna sand). b) Plastering under bath room glazed tiles in dados shall be in ratio 1:4 (1 part of cement: 4 part of Badarpur).		sq ft.		21110.75805	25/- PER SQ. FT	527768.9514
	TOTAL						527768.9514
2	Finishing						
	SURFACE OF COLUMN	Wall panel, double sided brushed copper effect(119.6x55 cm (47 1/8x21 5/8 ") 10 years warrenty	SQ FT.	111	779.0907596	200	154618
	in steps stair case	Wall panel, double sided brushed copper effect(119.6x55 cm (47 1/8x21 5/8 ")	SQ FT.	6	37.218	200	7358.91
	total						161976.91
3	WALL CLADDING						
	Timber Veneer	thickness- 0.8mm,natural veneer,	sq ft.		640.5872187	120	76870.46624
	Gyproc Sound Bloc Gypsum board	4 X 8 FT ,15MM THICK, GREY COLOR	sq ft.		21110.75805	420	8866518.383
	total						8943388.849
4	FLOORING						
	flooring size (2 x 2) 1 tile	KOTA TILES FLOORING, durable, thickness- 15mm	sq. ft		9687.52	250	2421880
	total		sq. ft				123766.5978
5	Chairs						
	Beige Armchair	T&T Co. Swivel Chair		3		61999	185997
	Swivel Lounge chair	Roundhill Furniture Noas Contemporary Round Tufted Back Swivel Height Adjustable Accent Chair		6		15000	90000
	Mandela Chair	Mandela teakwood chair(Overall 31.5" H x 32.09" W x 30.31" D)(Legs 8.7" H)(Seat 16.93" H x 22.64" W x 23.03" D),Razia		4		9000	36000
	Swivel Lounge chair	Roundhill Furniture Noas Contemporary Round Tufted Back Swivel Height Adjustable Accent Chair		3		15000	45000
	Ergonomic chair	Ergo105,23x18.5x43 Inch,360 Degree(rotatable),BrandSpacewood Office Solutions		6		2200	13200
	total						370197
6	tables						
	atelier table	Oak veneer,H 18 x W 39 x D 20 inches,BrandCrystal Furnitech		1		18999	18999
	meeting room table	(H 29.5 x W 94.5 x D 35.5)inches , Engineered Wood,BrandSpacewood Office Solutions		1		38,000	38,000
	paper work table	Oak veneer,H 18 x W 39 x D 20 inches,BrandCrystal Furnitech		1		18999	18999
	manger room table	H 29.5 x W 71 x D 35.5 inches,Engineered Wood,BrandSpacewood Office Solutions		1		5699	5699
	office room table	(H 29.5 x W 94.5 x D 35.5)inches , Engineered Wood,BrandSpacewood Office Solutions		1		38,000	38,000
	total						1,19,697
7	Doors						
	store room door(2.1x1.2)m	Glazed Aluminium Door (2.1 X 1.2)	sq. ft	2	6.8	450	6120
	Main entrance	Glazed Aluminium Door (3.5 X 1)	sq. ft	2	6.8	450	6120
	Standard 2.1x1	Glazed Aluminium Door (2.1 X 1)	sq. ft	8	6.8	450	24480
	simulator room door	Glazed Aluminium Door (1.2 X 3.2)M	sq. ft	1	14.46	450	6507
	door frame	Alluminium	ft	1	64.44	200	12888
	total						56115
8	Glazing						

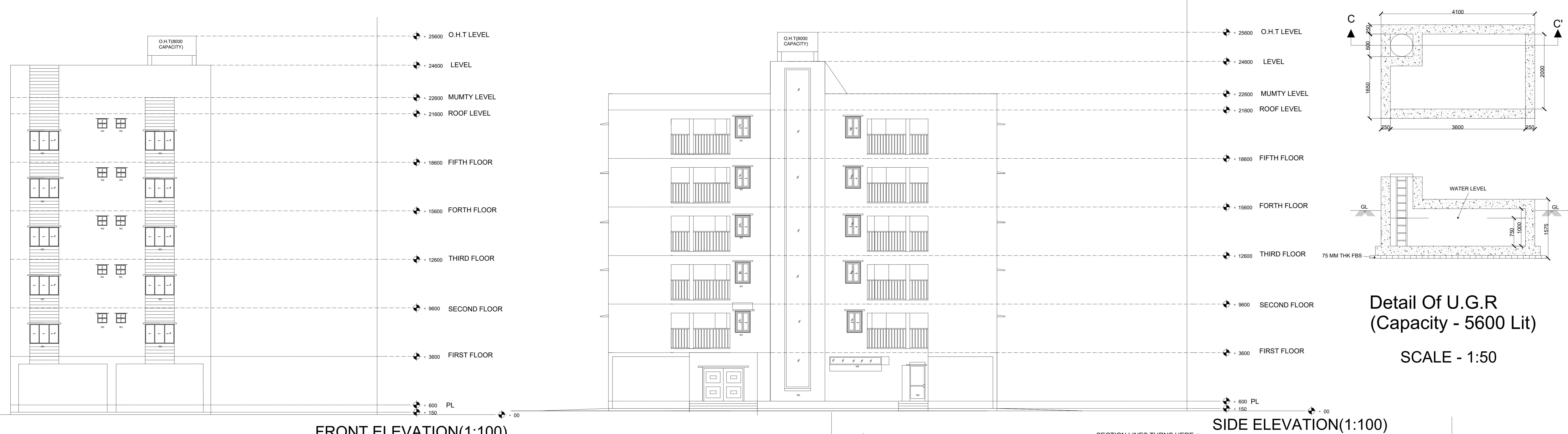
BOQ

	glass wall(3.2 x 2.7) m	laminated		sq. ft.	16	93	1250	1860003.8
	SPIDER CLAMPS	AISI 316 Curtain Wall Stainless Steel Spider Fitting For Fix Glass		Pieces	18		3,344	60192
	main door(sensored)	(3.6 x 3)M		sq. ft	1	116.2502	45,000	5231259
	TOTAL							7151454.8
9	Storage cabinets							
	Box showcase cabinet	plywood 30mm thick		sq. ft	1463.184843	90/ sq ft.	131686.6359	
	Steel frame box cabinets	square section steel frame and plywood		sq. ft	7.96184926	57/ sq ft.	453.8254078	
	total							132140.4613
10	false ceiling							
	gyp board plain	4 ft. x 8 ft., 12mm thick,		276	8817.720557	420/ sheet	115920	
	jointing and finishing	Gyproc pro fill			5		600	3000
	metal components and accessories	gyp steel ultra tm celing perimeter channel gyp steel ultra tm celing intermediate channel gyp steel ultra tm celing section gyp steel ultra tm celing ceiling angle gyproc connection clip gyproc connection rawl plug soft cleat dry wall screws metal screws , m6 nut bolts						
	total						10000	10000
								128920
11	Air conditioning							
	VRV AIR Conditioning	Power Supply: 3 Phase, 380-415 V, 50 Hz., Cooling Capacity (Btu/hr): 56400,Tonnage (TR): 6 HP (4.95 TR), model -RXYQ6, DAIKIN					506000	506000
	TOTAL							506000
12	toilet work							
	WC	360x500x335 mm,WHITE Matt,JAQUAR		2			7976	15952
	WB	32.5D x 45.5W x 13H Centimeters, WHITE MATT,JAQUAR,		2			1990	3980
	URINAL	27D x 28W x 40H Centimeters,WHITE MATT,JAQUAR		1			4253	4253
	TAP	7 x 21.2 x 38.2 cm; 1.2 kg,JAQUAR		2			1899	3798
	TOILET PAPER HOLDER	16.5L x 6W Centimeters,JAQUAR		2			279	558
	ZET SPRAY	Size (L x B x H): 10 CM X 10 CM X 10CM,Chrome Finish,JAQUAR		2			549	1098
	HAND DRYER	24 x 23 x 24 cm; 1 kg, WHITE MATT FINISHES,JAQUAR		2			5000	10000
	TISSUE PAPER DISPATCH MACHINE	27 x 23 x 11.6 cm; 1 kg,WHITE MATT FINISHES,JAQUAR		2			1855	3710
	total							43349
13	pantry work							
	refrigerator	Samsung 633 L, 3 Star, Frost Free, Double Door, Convertible 5-in-1 Digital Inverter, Side By Side Refrigerator with AI, WiFi & Water & Ice	NA.	1			24,890	24,890
	micro wave	Samsung 32L, Slim Fry, Convection Microwave Oven with Tandoor and Curd making(MC32A7035CT/TL, Stainless Steel, 10		1			16,490	16,490
	COFFEE MACHINE	Wonderchef Regenta Fully Automatic Coffee Machine For brewing Americano, Cappuccino, Latte, Macchiato, Flat White, Espresso		1			69,979	69,979
	total							111,359
14	cars							
	Dummy car	Yangwang U9 electric supercar		1			19529103.15	19529103.15
	total							19529103.15
15	electrical							
	Ceiling multi spot light point	Track Light Rhombus COB Spotlight, 10W		70			1000	70000
	exhaust fan	33 cm x 15.5 cm x 33.3 cm, VENTILAIR DX,200 mm sweep White, HAVELLS		2			2120	4240
	recessed cove light	round LED cove light,60 mm dia,15 w syska		26			987	25662
	wall light	80 x 75 x 66 MM , 6W ,syska		23			400	9200
	magnetic track light linear defused light	66 X 42 X 22 MM, MAGNETIC, 6W, 48 VOLT, syska		24			1299	31176
	switch board							
	Modular plast color guid	47 x 28 x 23.5 cm;12M, ROMA		2			100	200

BOQ

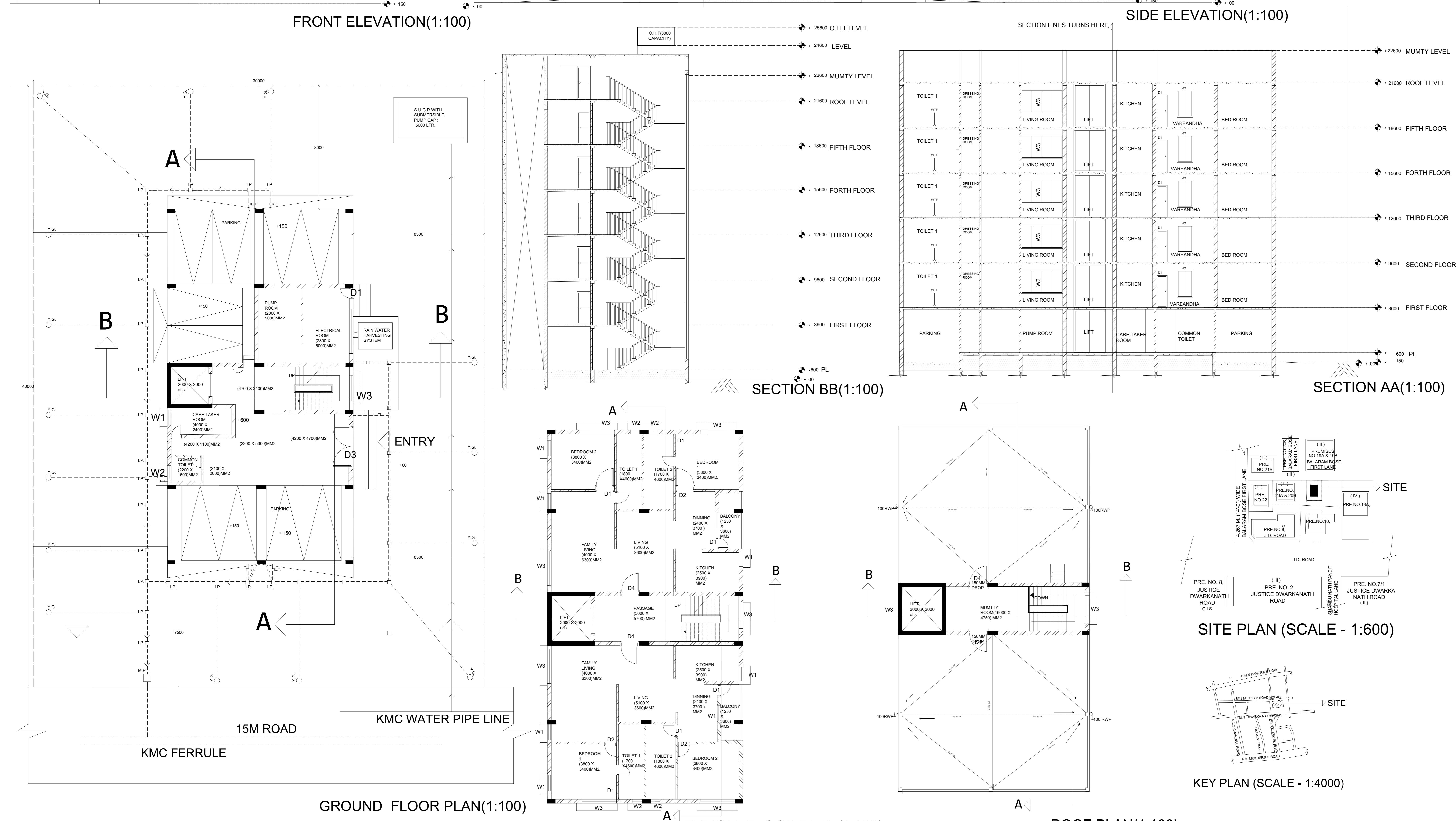
			Z	Z50	SU
	INNER SIDE METALIC BOARD	30 X 30 X 23.5 CM; KUMA			
	SWITCH AND PLUG SET BOARD	12 x 8 x 6 Centimeters, 240 VOLTS, 5 AMP,1 WAY, MATERIAL- PLASTIC, CONA	3	110	330
	HIGH VOLT SWITCH BOARD SET	12 x 8 x 6 Centimeters, 240 VOLTS, 20 AMP,1 WAY, MATERIAL- PLASTIC, CONA	2	212	424
	6A Socket	3 x 4 x 1 cm,PLATINUM MODULER ,CONA	11	133	1463
	16 A socket	3 x 4 x 1 cm,PLATINUM MODULER ,CONA	8	110	880
	switch	48 x 27 x 56 Millimeters,2 WAY Push Button,CONA	15	133	1995
	TOTAL				146070
	MCP for 220 volts	c series SPN MCB, RATING 6-32 A, HAVELLS	2	2990	5980
	MCP for 440 volts	D series SPN MCB, RATING 6-32 A, HAVELLS	2	3770	7540
	TOTAL				159590
16	OTHER APPLIANCES				
	Simulator	Racing Simulator TKMRX 10 by Logitech	2	870700	1741400
	SPORTS CAR WHEEL	Aluminium Black Polished Sports Car Alloy Car Wheel, Size: 13-20 Inch, zeal	7	17,00	17,000
	Q LED DISPLAY	7inch QLED Quantum Dot Display, Capacitive Touch, 1024x600	4	5748	5748
	lift	2.1 x 2.5m,kone,	1	64,000	64,000
	car rotating platform	360 degree car rotating platform 3000kg manufacturer car display turntable,50X50X50 cm	1	3,06,487	3,06,487
	carpet in atelier portion	9' x 6', soft carpet,obeetee	1	6,970	6,970
	carpet in waiting lounge	9' x 6', soft carpet,obeetee	1	6,970	6,970
	SEATING SFT MATERIAL	soft dark grey color		10,000	10,000
	Mounting clamps	For engine and dummy car display	6	6000	36,000
	TOTAL				21,94,575
16	Steel Deck				
	Corrugated steel panels	0.8m x 10m Steel corrugated sheets (corrugation : 70x80)	sqm	28	8
		concrete fill	cu.m	10	4000
		Vertical support (I sections) 3550mm	kg	2	150
		Vertical support (I sections) 4550mm	kg	2	190
	TOTAL				27,63,360
	TOTAL				4,50,59,815





Detail Of U.G.R (Capacity - 5600 Lit)

SCALE - 1:50



CERTIFICATE OF ENGINEER:

THE STRUCTURE DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF C THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INC S INCLUDING SEISMIC LOAD AS PER H.B.C. OF INDIA AND CERTIFIED THAT IT IS SAFE STABLE IN ALL RESPECT

SIGNATURE OF ENGINEER

CERTIFICATE OF ARCHITECT

CERTIFIED WITH PAL RESPONSIBILITY THAT THE
BUILDING PLAN HAS BEEN DRAWN UPA
BUTONOVIC RULES, 1991 AL AMENDED FROM THE
TIME TO TIME AND NCLUDING THE WIDT THAT THE
BAD CONDITIONS THE PLAN AND THAT IT IS OF
THE ROAD CONFIRM WITH A BUILDING SITE AND
NOT A TANK OR FILLED UP TANK

SIGNATURE OF ARCHITECT

SIGNATURE OF OWNER

DOOR WINDOW SCHEDULE				
NAME	LENGTH	BREADTH	HIGHT	N
D1	700	250	2100	6
D2	900	250	2100	4
D3	2000	250	2100	1
D4	1000	250	1000	2
W1	1000	250	1000	7
W2	700	250	1000	5
W3	1600	250	1000	6
W4	1600	250	19600	1
W5	3000	250	500	1

PART -A

1. TOTAL AREA OF THE PLOT OF LAND : 1200 Sq.m
2. MEANS OF ACCESS : 15 M.
3. PERMISSIBLE GROUND COVERAGE : (40%) = 480 Sq.M.
4. CONSUMED GROUND COVERAGE : (24.33 %) = 292.50 Sq.M.
5. HEIGHT OF THE BUILDING : 21.6 M. (G + 5)
6. F.A.R OF THE BUILDING-2.14
7. TOTAL COMMON AREA CONSIDER FOR FAR = 32.24Sq.M.
8. GIVEN PARKING NO.- 10(AS PER REQUIRED)
9. REQUIRED PARKING NO.- 10
10. CONSUMED PARKING AREA : 162.06 Sq.M.

NOTES -

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
SITE DIMENSIONS = 30,000 x 40,000
GROUND COVERAGE (AREA) = 292.50 SQM
EXTERNAL WALL = 250
INTERNAL WALL = 150
FLOOR TO FLOOR HEIGHT = 3000
SLAB THICK NESS=125MM
HEIGHT OF THE BUILDING=21.6 M
MANDATORY OPEN SPACE-
FRONT OPEN SPACE=3.5M
SIDE OPEN SPACE=4M
REAR OPEN SPACE=5M

**SUBMITTED BY- NABANITA SASMAL
ROLL NO-2021APB012,**

SEM.- 6TH; 2024

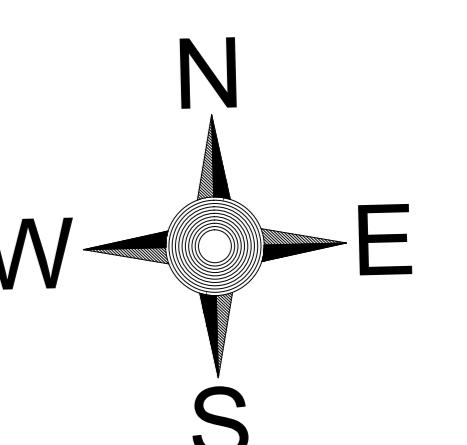
DEPT OF ARCHITECTURE & PLANNING, IEST, SHIRPUR

SACLE 1-100 1-600 1-1000 1-50

For more information about the study, please contact Dr. John D. Cawley at (609) 258-4626 or via email at jdcawley@princeton.edu.

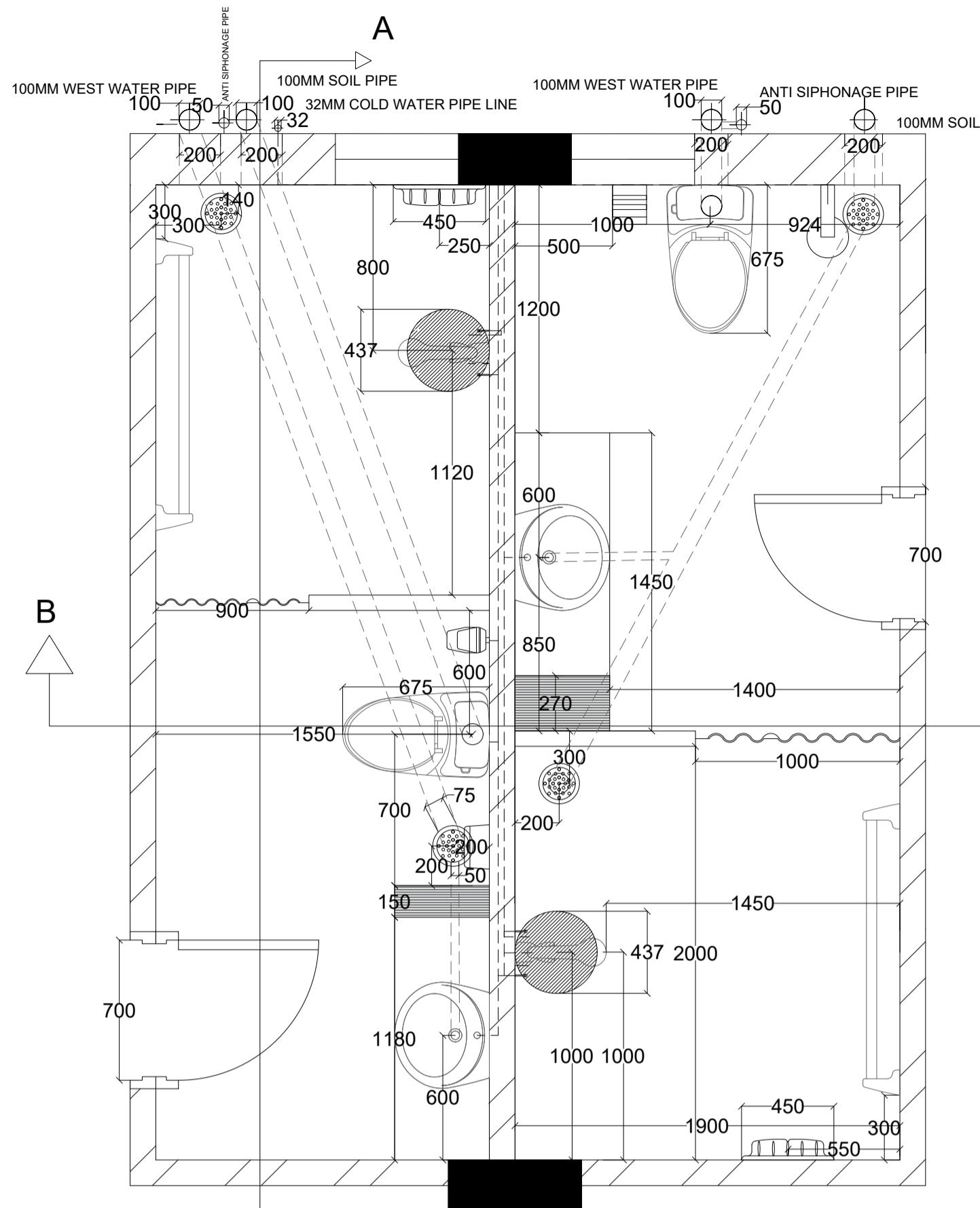
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PROJECT- PROPOSED G+ 5 APARTMENT BUILDING,(B/121/H/1 BB STREET

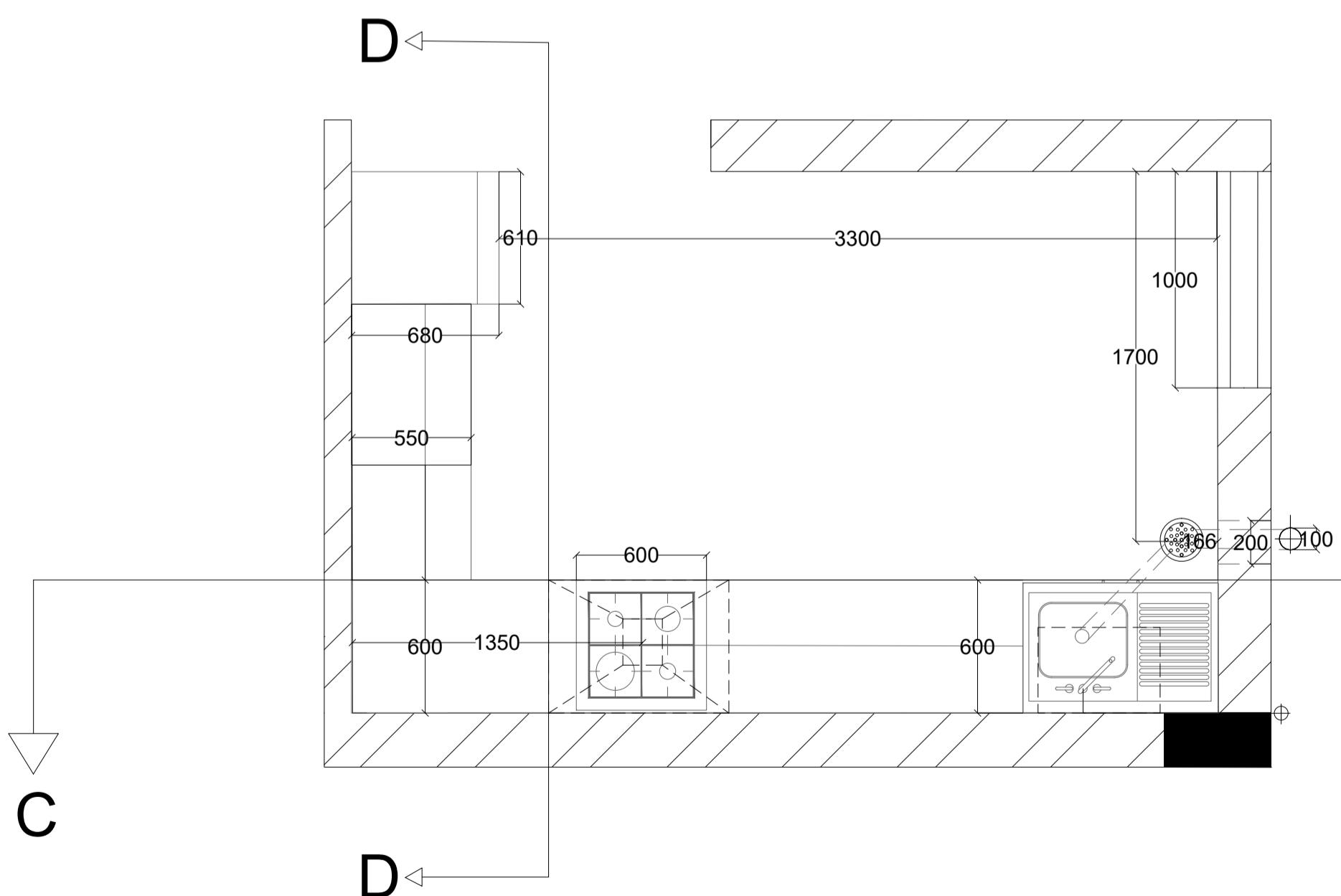


KEY WORD	
SH	SHOWER
SW	SANITARY WARE
WC	WATER CLOSET
WB	WASH BASIN
MIR	MIRROR
MT	MONOBLOC TAP
RS	JET SPRAY
TP	TAP

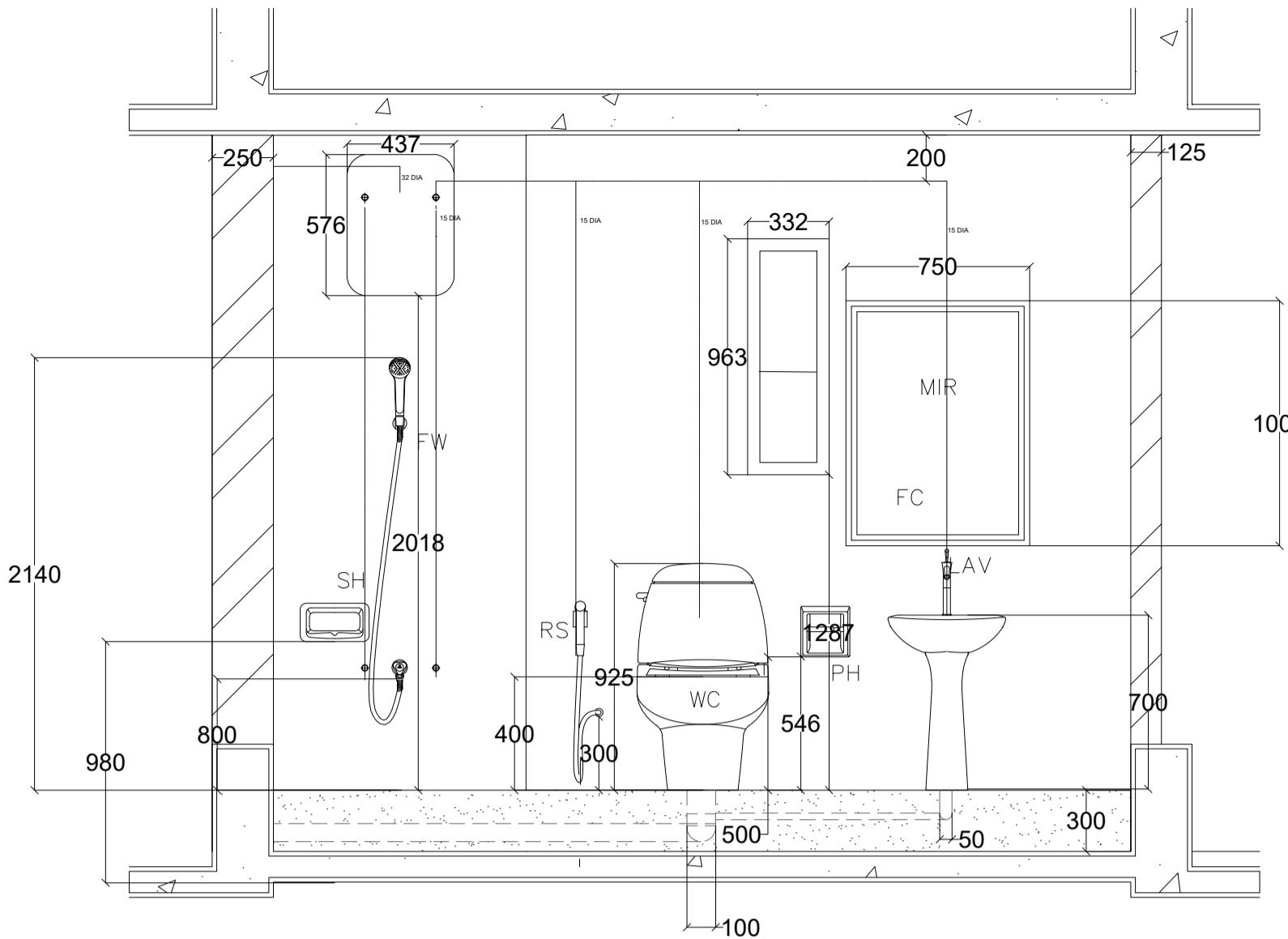
ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
GROUND COVERAGE (AREA) = 292.50 SQM
EXTERNAL WALL = 250
INTERNAL WALL = 150
FLOOR TO FLOOR HEIGHT = 3000
SLAB THICKNESS = 125MM



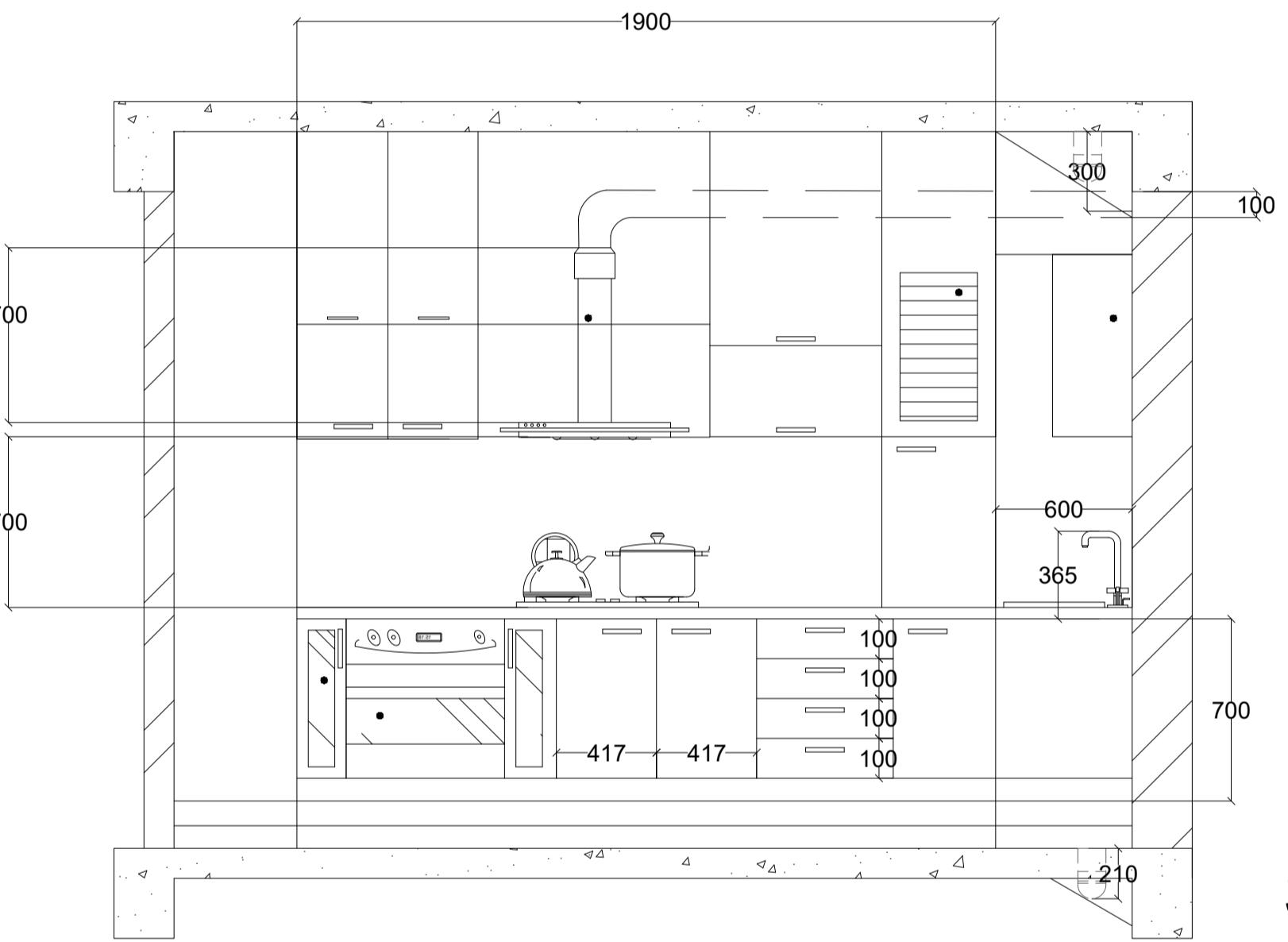
TOILET
1(1700X4600)MM2 X &
TOILET 2(1800 X
4600)MM2



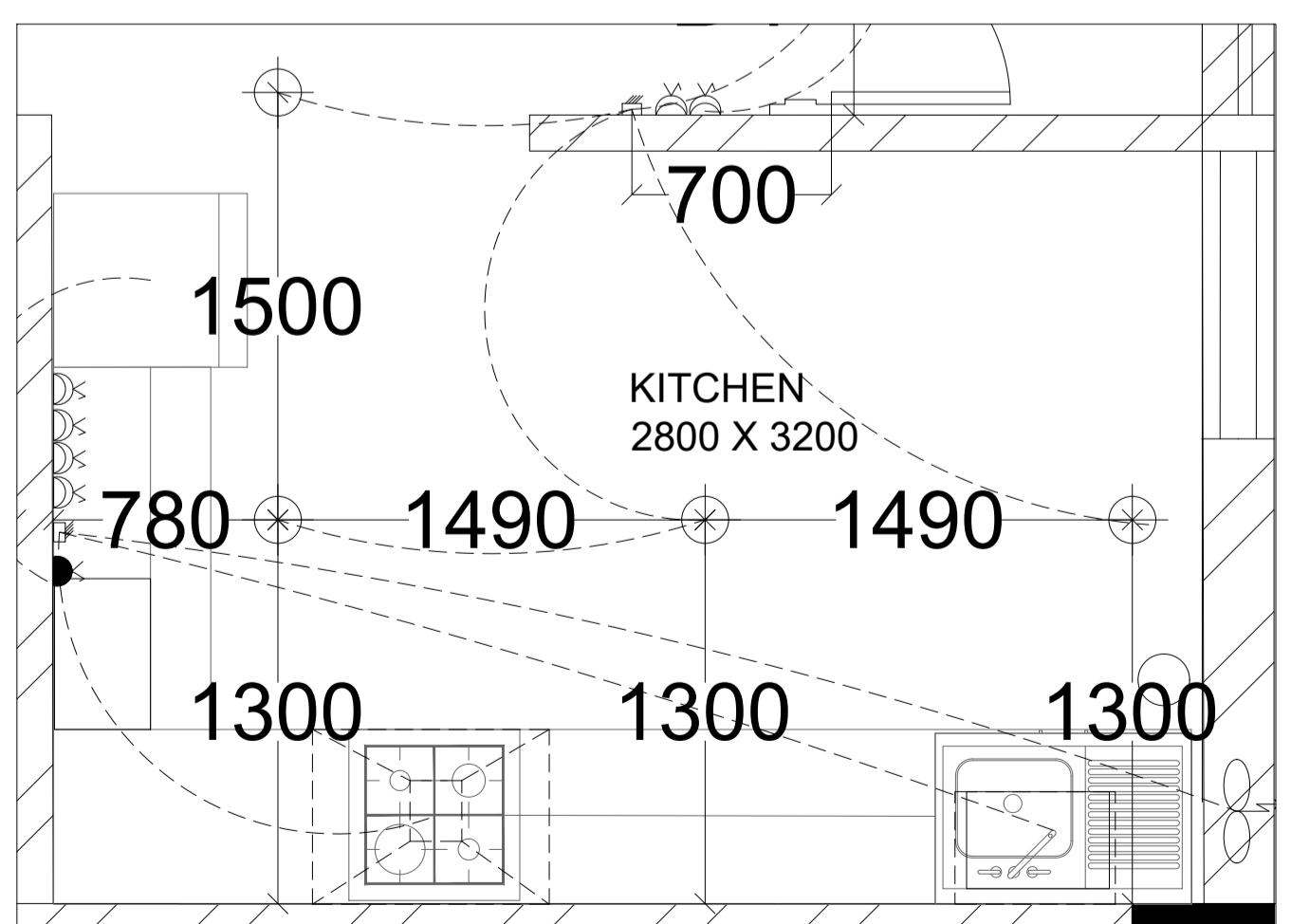
PLAN(KITCHEN)
KITCHEN (3200 X 2800) MM2



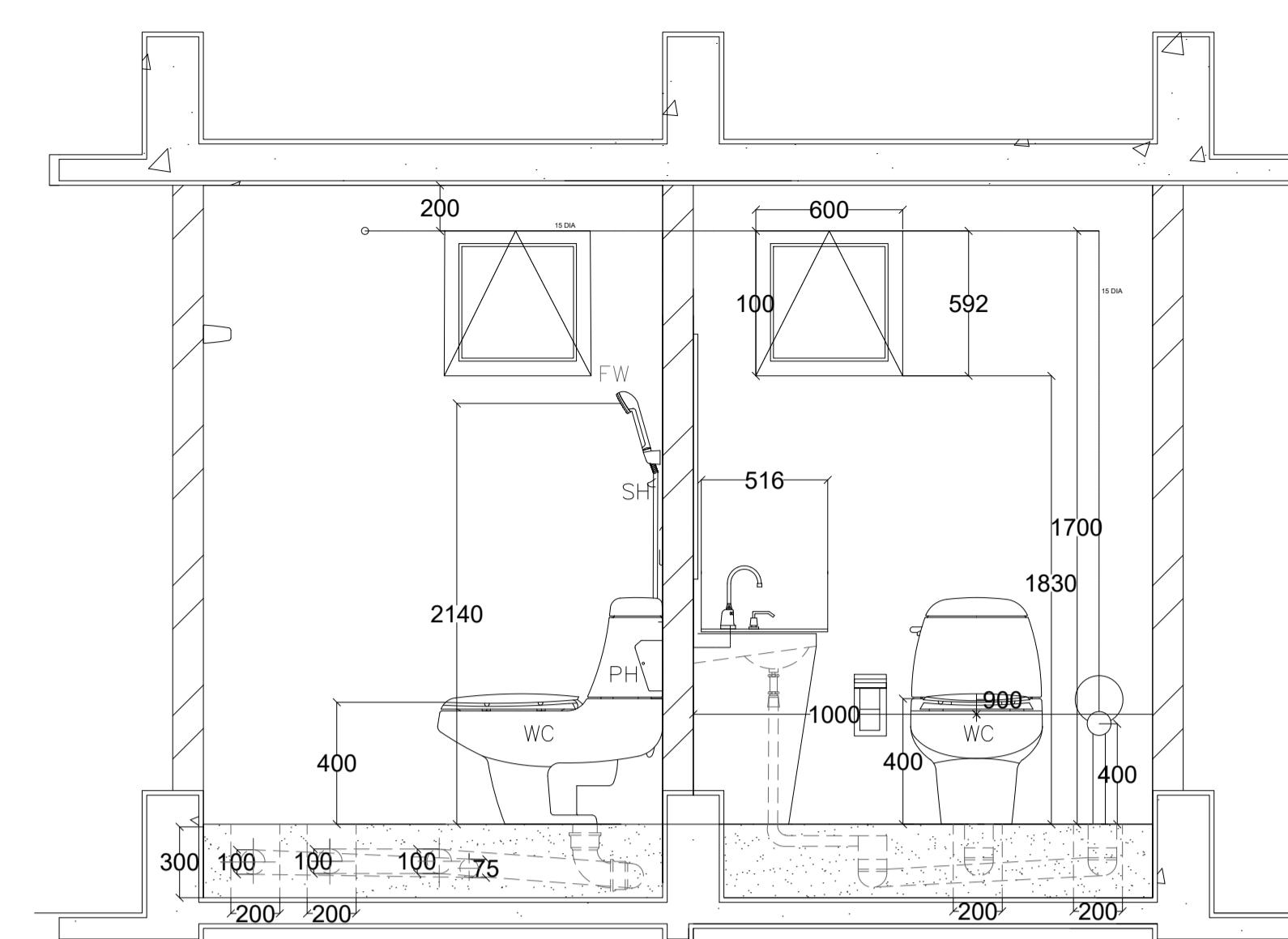
SECTION AA



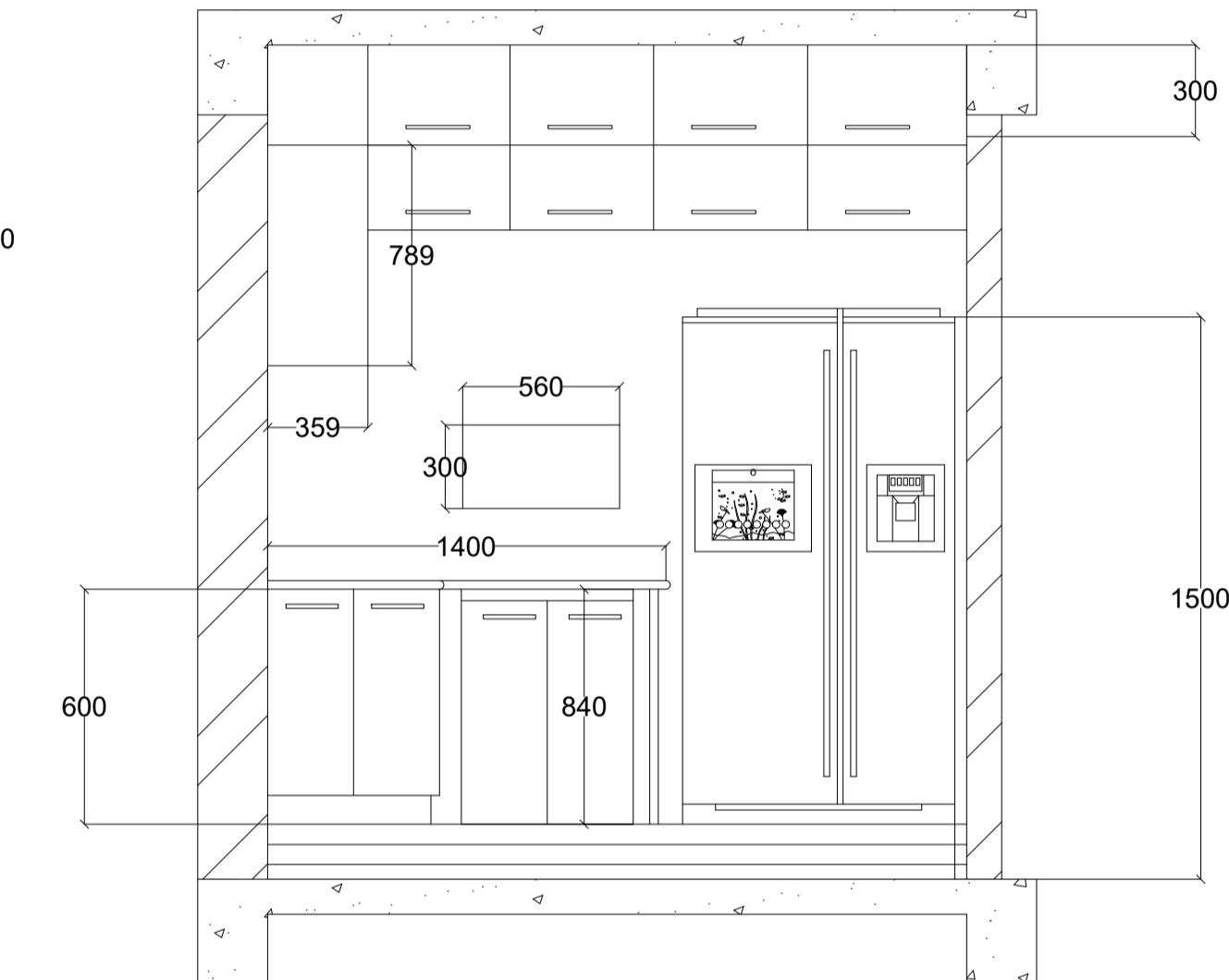
SECTION DD



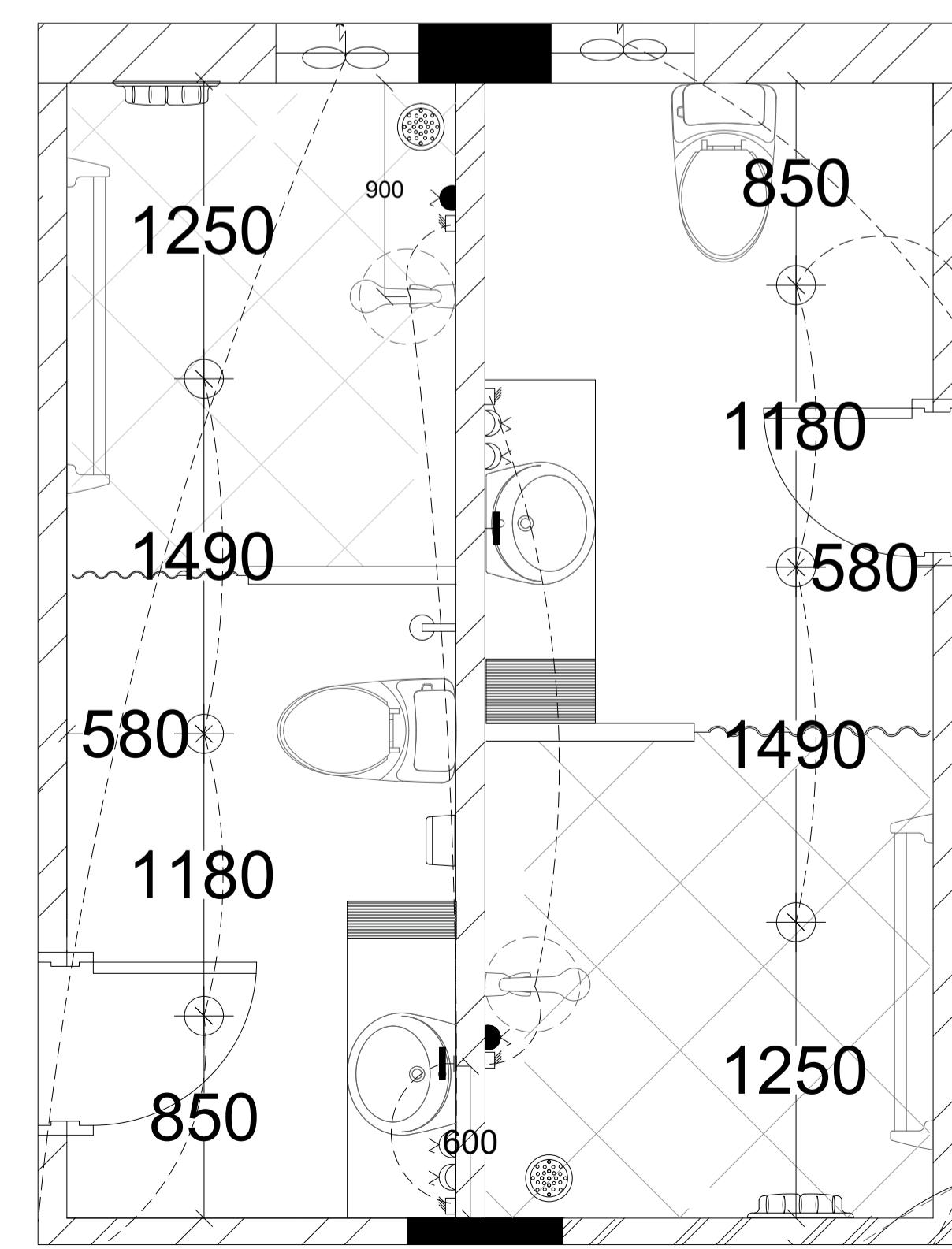
ELECTRICAL LAYOUT IN KITCHEN
ELECTRICAL LAYOUT PLAN IN TOILET



SECTION BB



SECTION CC

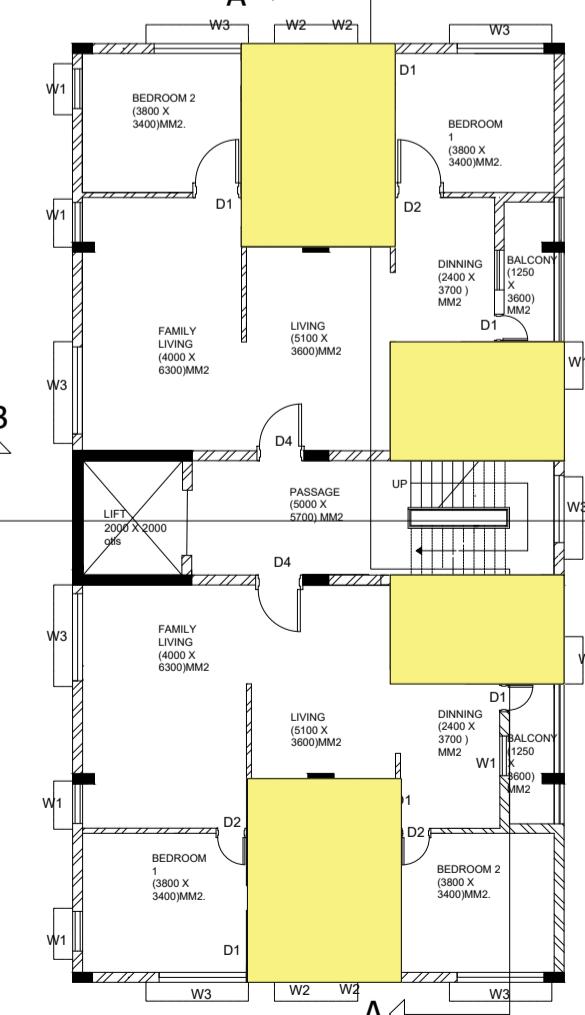


PLUMBING LAYOUT AND FIXTURE

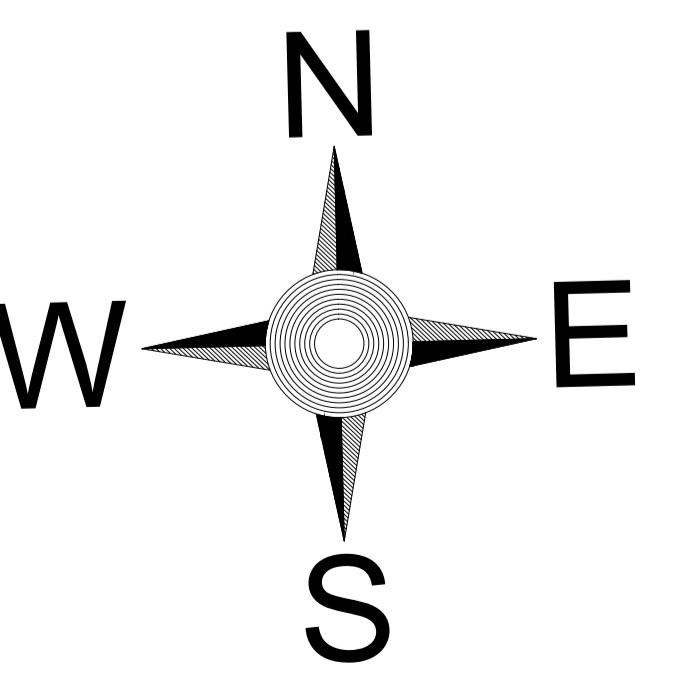
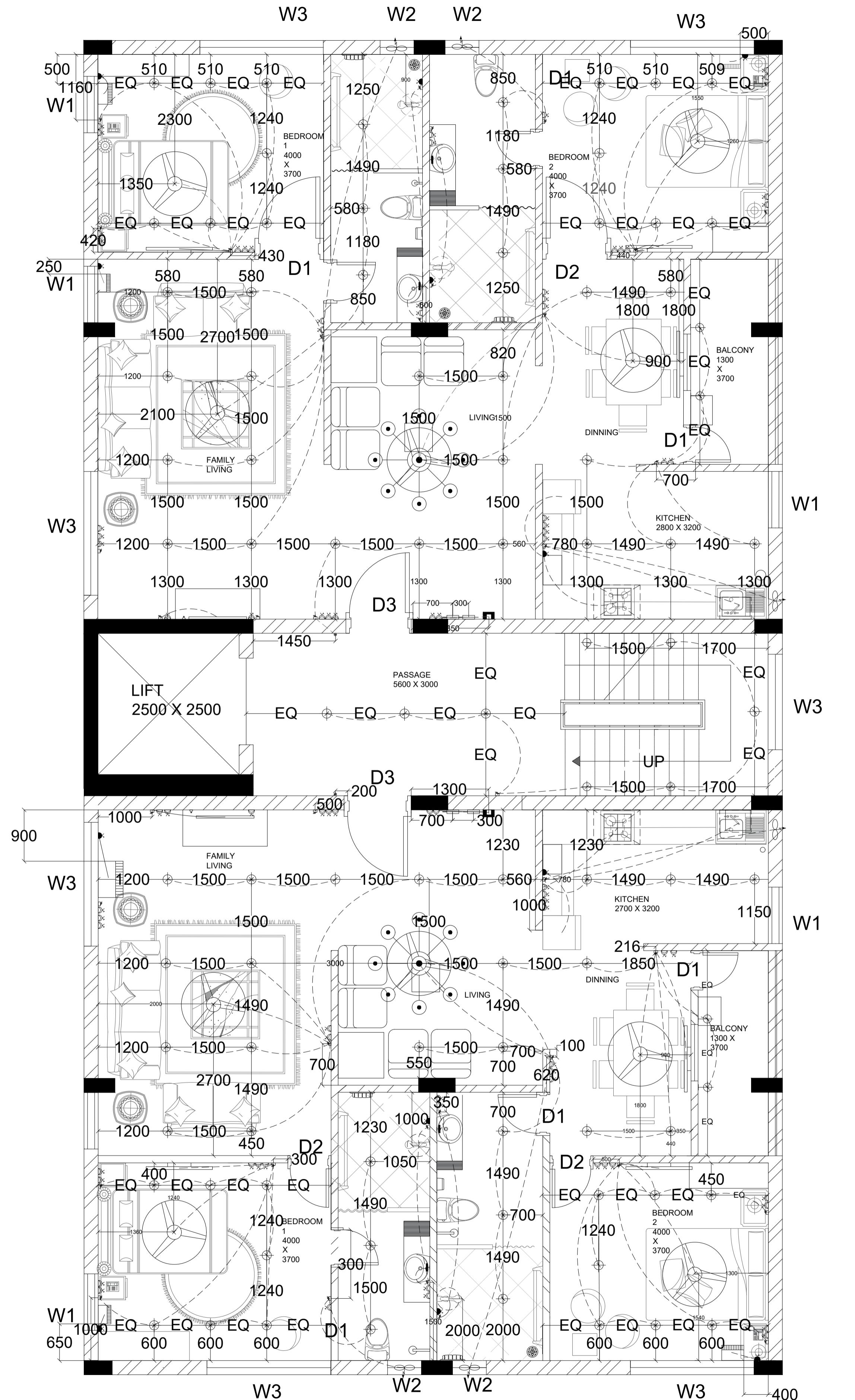
SUBMITTED BY- NABANITA SASMAL
ROLL NO.- 2021APB012
DEPT OF ARCHITECTURE & PLANNING,
IEST, SHIBPR

SCALE: 1:25
CHECKED BY:
DATE:
PROJECT: DETAILS OF TOILET AND KITCHEN
PROJECT: PROPOSED G+5 APARTMENT
BUILDING,(B/121/H,R.C.P ROAD,KOL-07)

SHEET NO- 02
SHEET SIZE - A1



TYPICAL FLOOR PLAN
SCALE- 1:200



KEY WORD		
	CEILING LIGHT	ON CEILING
	WALL BRACKET LIGHT	2500 MM FROM FLOOR
	TUBE LIGHT	2500 MM FROM FLOOR
	CEILING FAN	ON CEILING
	6 amp SHOKET	1270MM FROM FLOOR
	CHANDELIER	BELLOW FAN
	SWITCH BOARD	1270MM FROM FLOOR
	BELL PUSH BUTTON	2000 MM FROM FLOOR
	GEYSER	2600MM FROM FLOOR
	AIR COOLER	TOP OF THE ROOM
	16 AMP SHOKET	1270 MM FROM FLOOR
	MCP	TOP OF THE WALL
	EXHAUST FAN	2500 MM FROM FLOOR
	WIFI POINT	TOP OF THE WALL

ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED

GROUND COVERAGE (AREA) = 292.50 SQM

EXTERNAL WALL = 250

INTERNAL WALL = 150

FLOOR TO FLOOR HEIGHT = 3000MM

SLAB THICKNESS = 125MM

ELECTRICAL LAYOUT

SUBMITTED BY- NABANITA SASMAL
ROLL NO.- 2021APB012
DEPT OF ARCHITECTURE & PLANNING,
IIEST,SHIBPUR

SCALE: 1:50

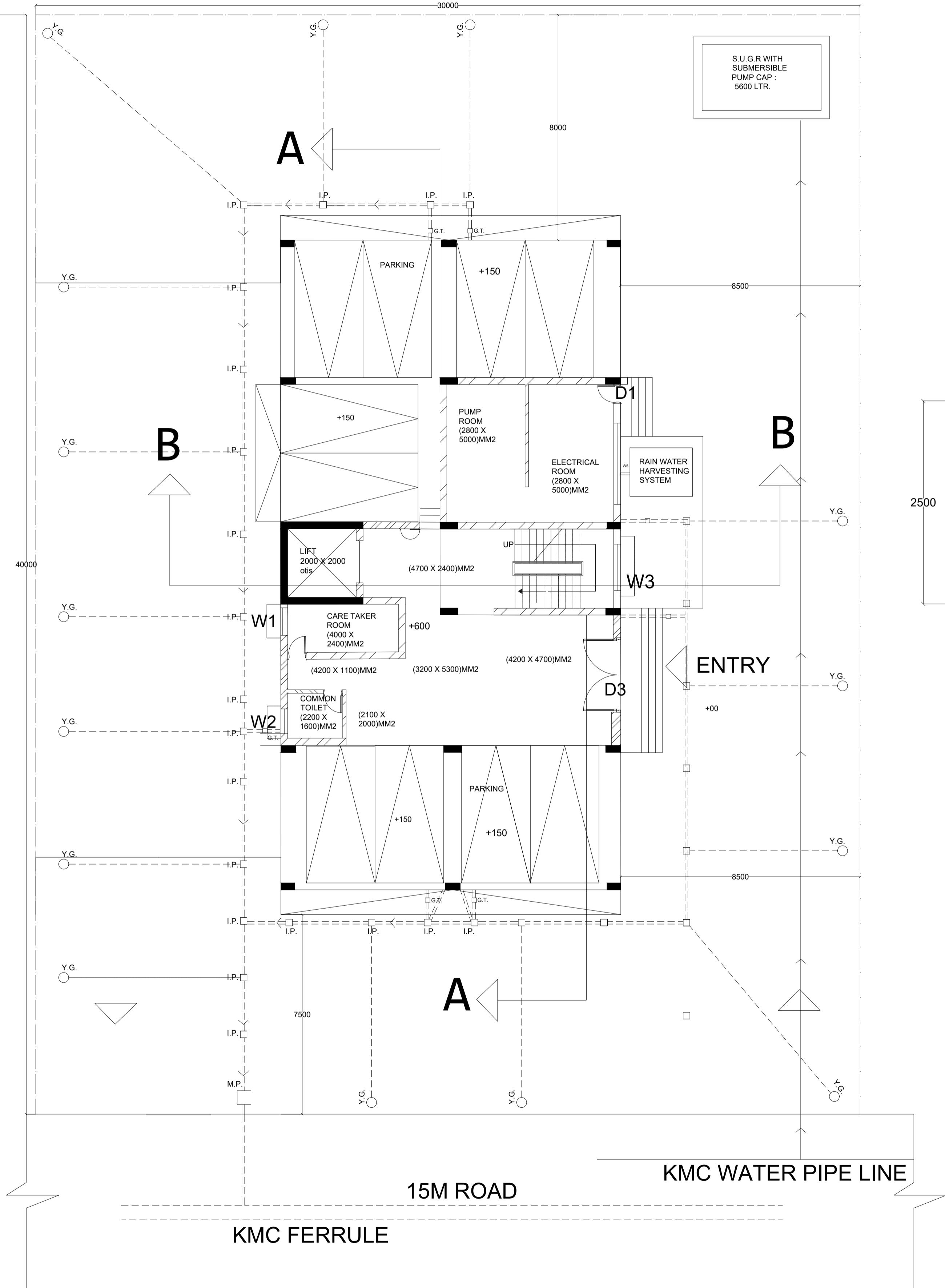
CHECKED BY:

DATE:

PROJECT: DETAILS OF ELECTRICAL LAYOUT

PROJECT: PROPOSED G+5 APARTMENT
BUILDING,(B/121/H,R.C.P ROAD,KOL-07)

1000 3000
2000 SHEET NO- 03
SHEET SIZE - A1

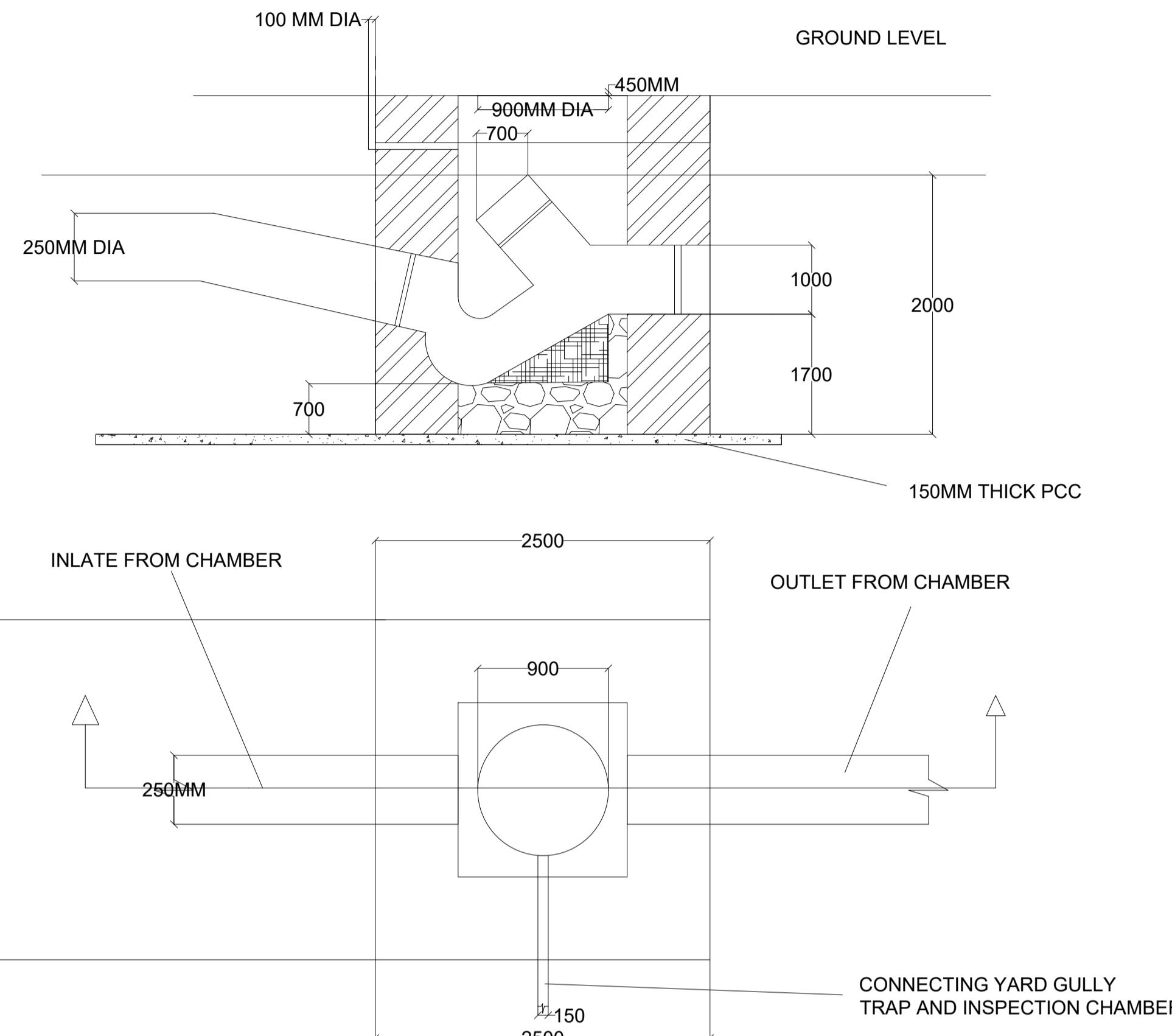


INSPECTION PIT SECTION AND PLAN

EVERY 10 FT -- 1 INCHES DROP --
IN INSPECTION PIT
SO THAT LAST IP IS NEAR
GROUND LEVEL AND IN FRONT
OF SITE IP IS TOO MUCH DEEP
DOWN POSITION.
YARD GULLY TRAP SIZE- 360 DIA
MM

SCALE- 1:100

GROUND FLOOR PLAN



ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
GROUND COVERAGE (AREA) = 292.50 SQM
EXTERNAL WALL = 250
INTERNAL WALL = 150
FLOOR TO FLOOR HEIGHT = 3000
SLAB THICKNESS = 125MM

SITE LEVEL DRAINAGE AND WATER SUPPLY LAYOUT

SUBMITTED BY- NABANITA SASMAL
ROLL NO.- 2021APB012
DEPT OF ARCHITECTURE & PLANNING,
IIEST, SHIBPUR

SCALE: 1:100

CHECKED BY:

DATE:

PROJECT: DETAILS SITE LEVEL DRAINAGE

PROJECT: PROPOSED G+5 APARTMENT
BUILDING, (B/121/H, R.C.P ROAD, KOL-07)

