

P O R T F O L I O

Rohit Rathod | Kamla Raheja Institute of Architecture
Bachelor of Architecture | 7th Semester | 2022-2023

ROHIT K. RATHOD



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CURRICULUM CONTENT

EXPERIANCE

2016-2018 Freelancer - Graphics design
(brochure, pamphlet, posters)

WORKSHOPS + DOCUMENTATIONS

2022 Pop-culture and semiotics (2022)
By Manoj parmar

2020 Scale of seeing charkop Documentation
Group member

2020 Almora Measured Drawing Exhibition
Core team member

2020 Family portraits (workshop)
By Sahiba madan

2019 Maheshwar Measured Drawing Exhibition
Core team member

2019 bamboo structure (workshop)
By Shrish joshi, Geroge Jacob

COMPUTER SKILLS

CAD/BIM Archicad | 3Ds MAX | Sketchup | Rhino

Rendering Vray | Unreal engine

Adobe CC Photoshop | Indesign | Lightroom

MS Office Word | Powerpoint | Excel

CERTIFICATES

2016 Certification of Graphics design course
Dream zone computer institute (4 months)

2017 Certification of Core Computer Programming course
Aptech Institute (4 months)

CONTENT

2019	Life along the Ridge city <i>Semester 4</i>	- 06
2019	Housing towards valley <i>Semester 4</i>	- 08
2020	Art Community Centre <i>Semester 5</i>	- 12
2021	The Ideal Democratical Building <i>Semester 6</i>	- 18
2021	Working Drawings <i>Semester 6</i>	- 24
2022	Natural Ventilation Workshop - Integrated Design Studio <i>Semester 7</i>	- 28
	Miscellaneous	- 29
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LIFE ALONG THE RIDGE OF THE CITY
SEMESTER IV | 2019

ALOMRA DOCUMENTATION

Atop a ridge in the Kumaon Mountains of Uttarakhand, seats the town of Almora. The presense of the naulas, and the sun path, bringing much needed warmth, have favoured the creation of the town above, on the ridge, as opposed to the norm of building settlements in the valley below. this village builded housing in unique method. this old style housing are still remains in village. The study trip was a documentation of neighbourhoods all along the market road. This documenta- tion involved producing measured drawing of the market that holds narratives of the place.

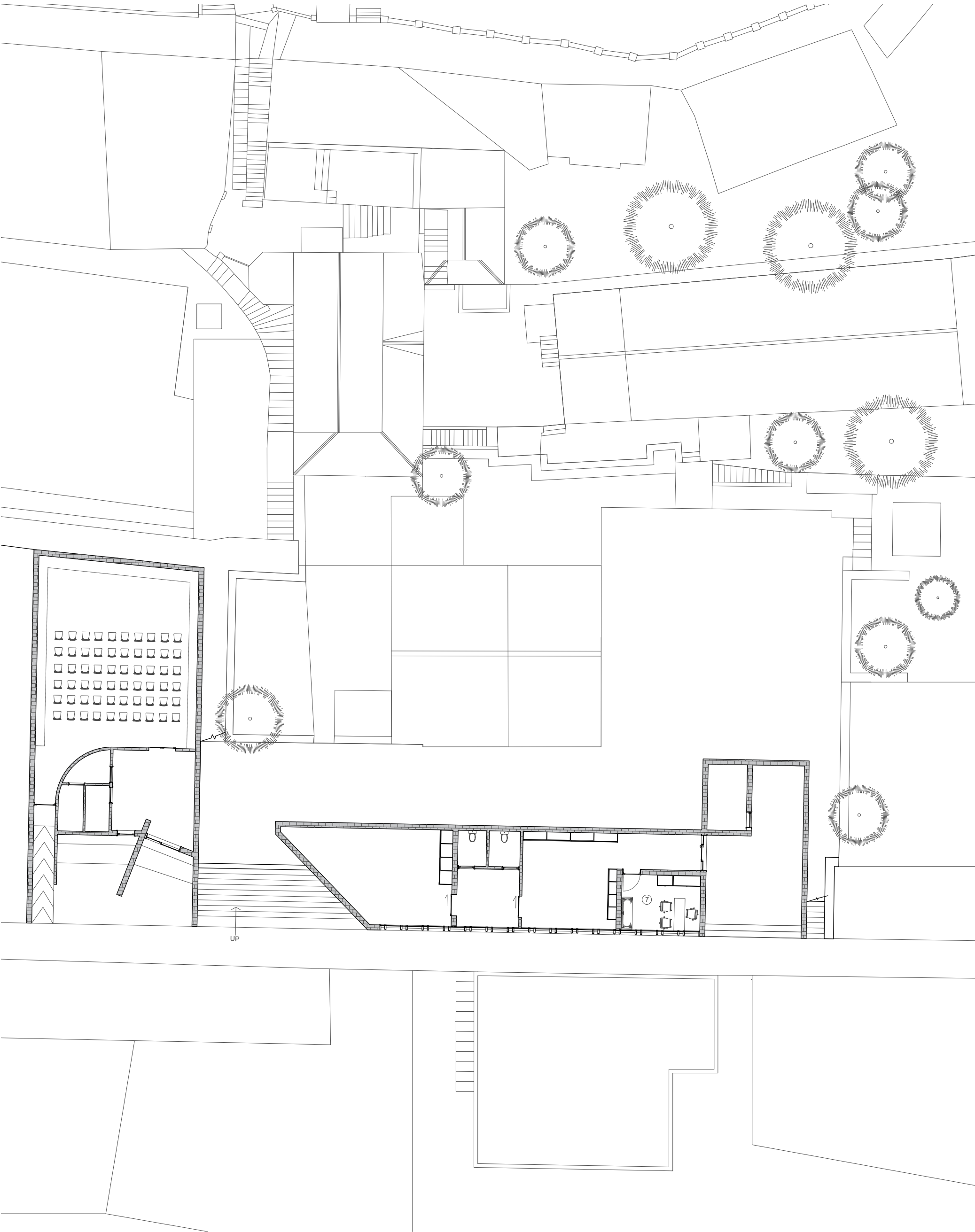


HOUSING TOWARDS VALLEY
SEMESTER IV | 2019

This project being a housing project in the alomora city, I derived my concept from the houses studied in the village and the city. The process consisted of analysing the different houses and proposing a design which would be heavily be based om the existing houses. my stance as an outsider professional was to develop the existing ideas of the vernacular which have been molded from generations and the new modern extension found in the town which are being done for quality of the life purposes. all the while making sure not to hijack the narrative of the people of almora with my own experiance.

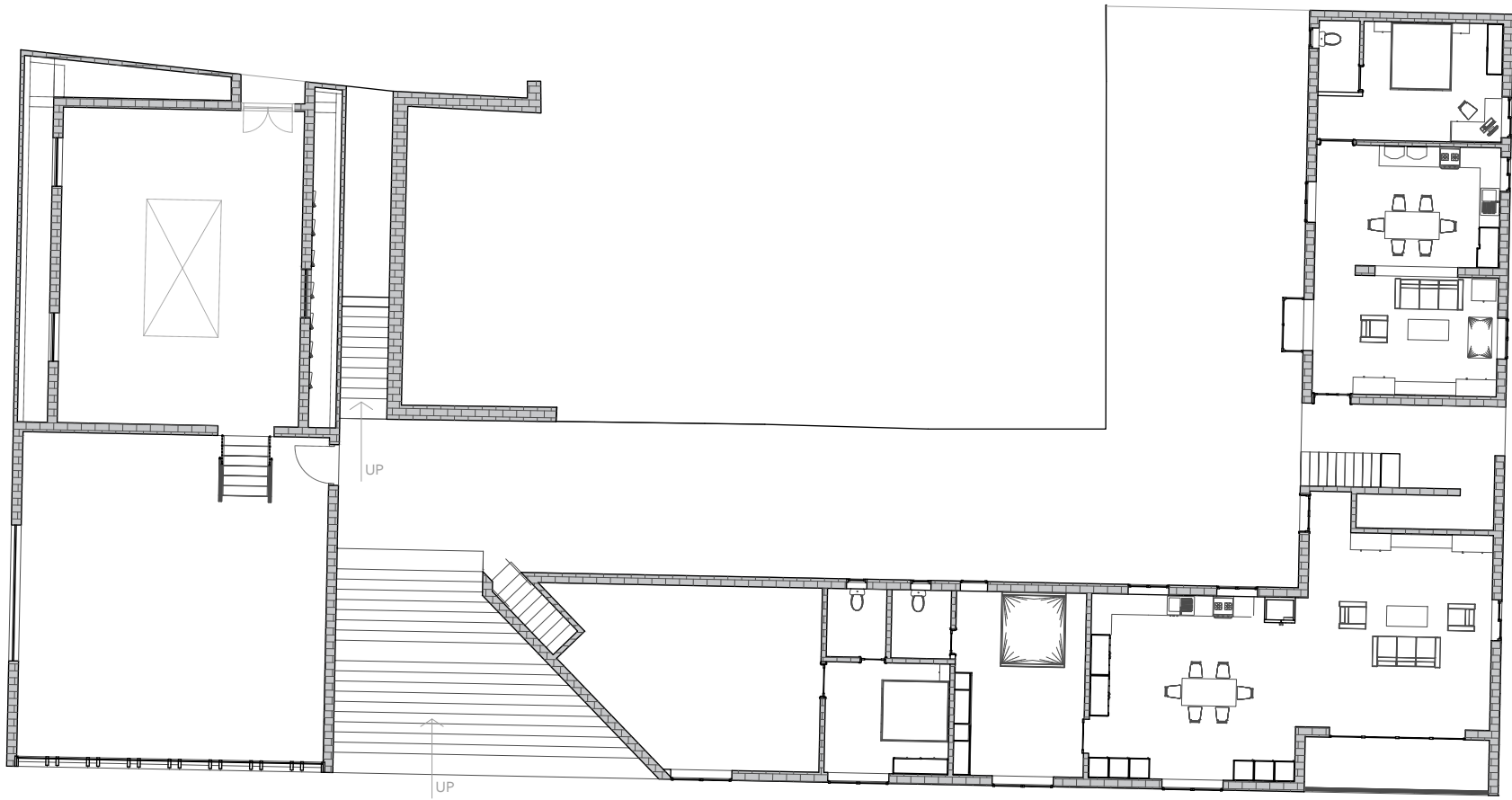


SITE PLAN 1:1000

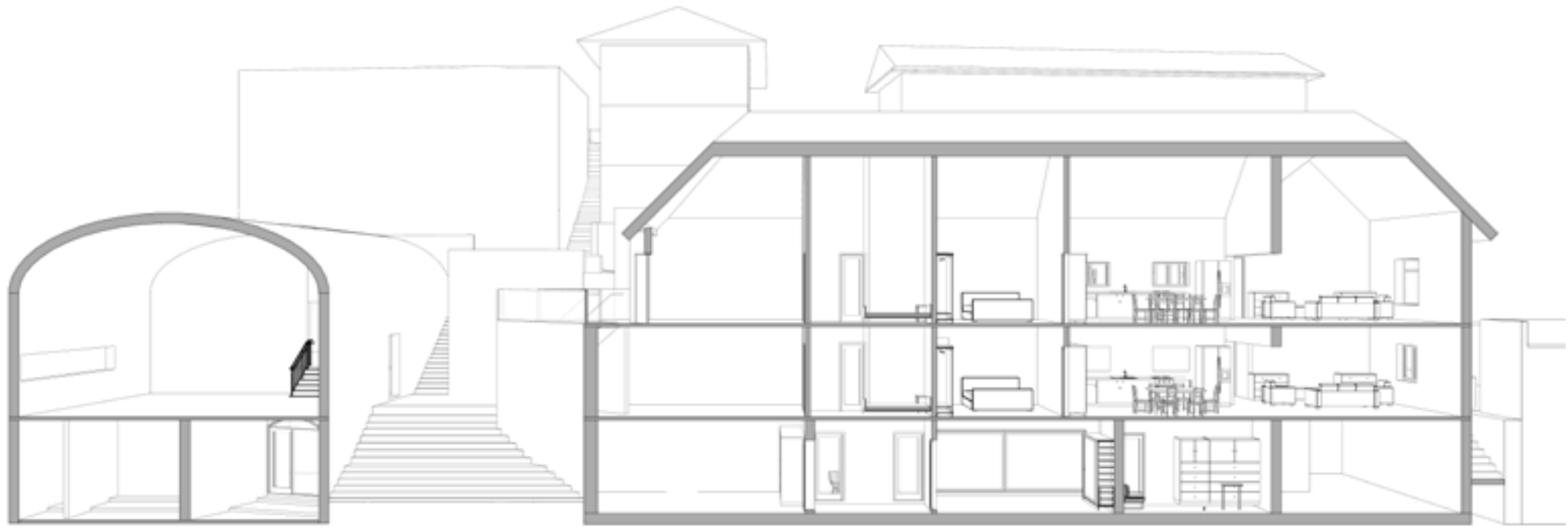


GROUND FLOOR PLAN 1:200
COMMUNITY HALL | CRECHE SPACE | OFFICE

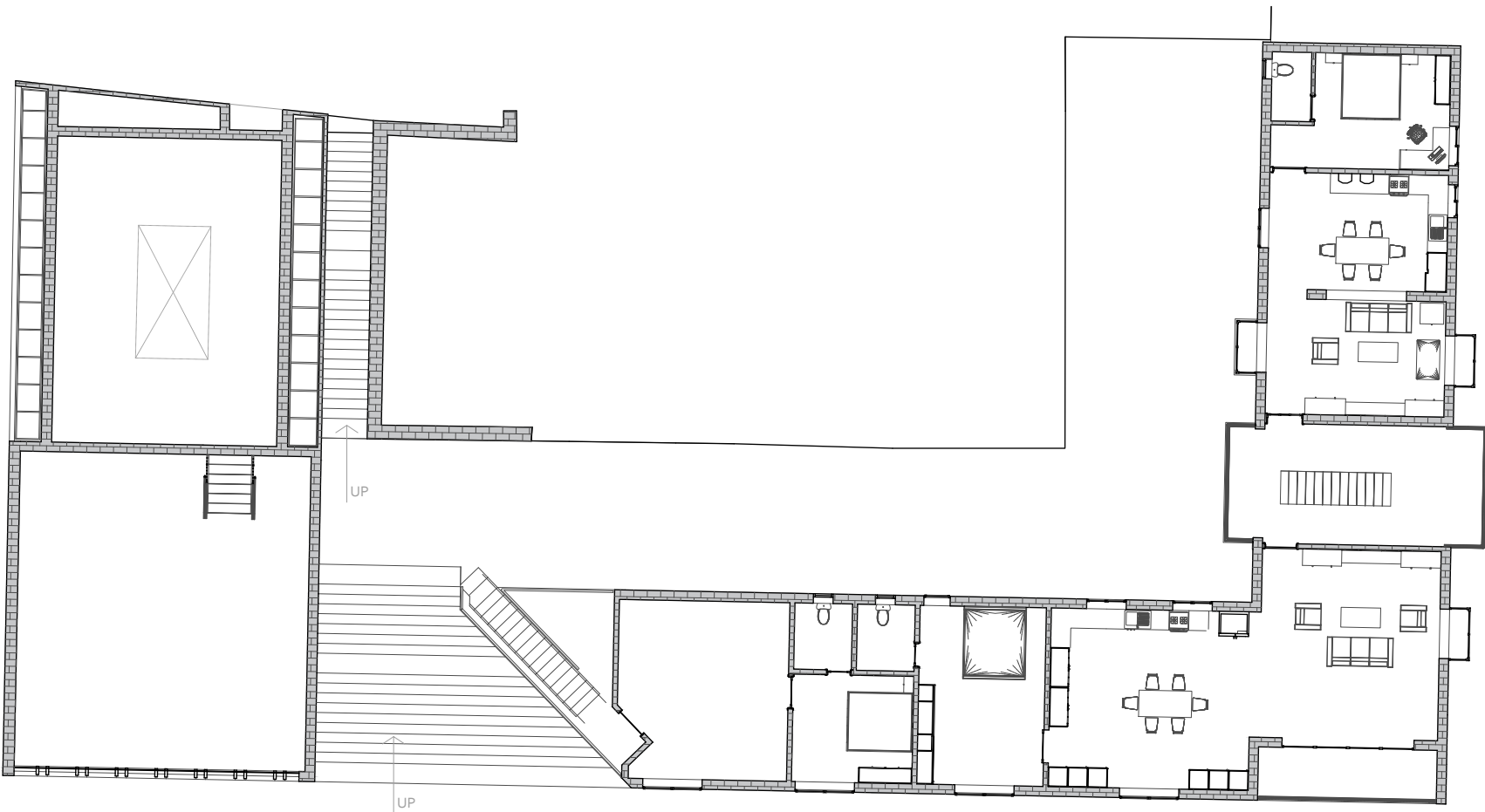




FIRST FLOOR PLAN 1:200
3 HOUSES | PUBLIC LIBRARY



FRONT SECTION IN PERSPECTIVE



SECOND FLOOR PLAN 1:200
2 HOUSE AND PG ROOM



FRONT ELEVATION 1:200

ART COMMUNITY CENTRE

NEIGHBORHOOD COMMUNITY SCHOOL
SEMESTER V | 2020

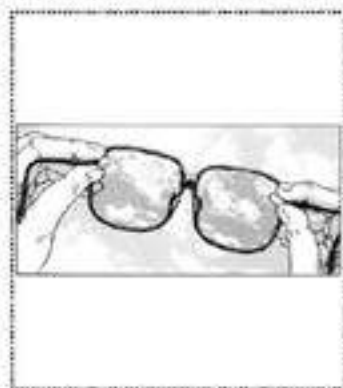
Learning environment

My narrative talk about the daily struggle of the pottery shopkeeper and his family make homemade pots and around his neighbor's which sells a home made products near to the MIDC road.

Neighbor children's cant afford to go school they work with their families and also work with their neighbor.



Story : So I was walking around Near my house at MIDC and little ahead is the shop which sell a Mud Pots. My Mother told me once a day that "if you saw the Pot shop Close somewhere then buy the small size pot or ask him to deliver on our address ." and I go there, I find some interesting design pots, normal pots. I saw small with bit of simple design pot but there is no one in the shop I look around there. After a while in back side of the bull cart boy is sculpting a god statue. I call him for price and he came to me and we bargain the final price of the pot. But that pot is getting cracks on it. I objection About this. So boy was looking for another piece of same pot, meanwhile he has only one of left in his shop. But then he convince for buy new pot at my home. So I was wandering around my area so I thought to go with him and we reach to his house, I so the workers area near to his house and some Mud sand bags are arranged there. Machines of making pot on the wooden wheel. his parents are look old in age and workers also, I asked to boy for looking around his house and he also inform me about his outside the house and their were like poor peoples who work very hard for making a brooms. One of his friend do search for dry coconut branches. Small kids playing with mud toys. Those small toys and also made by kids them self. I was very surprised but also little sad. After time I got the same Pot and I left with him on his shop. We became friends I told him that "your genius in sculptures why don't you join art school or sell some good statues ?". I don't have money to get in art school, I happy as I live my life now. we look a poor workers but we happy to this life...

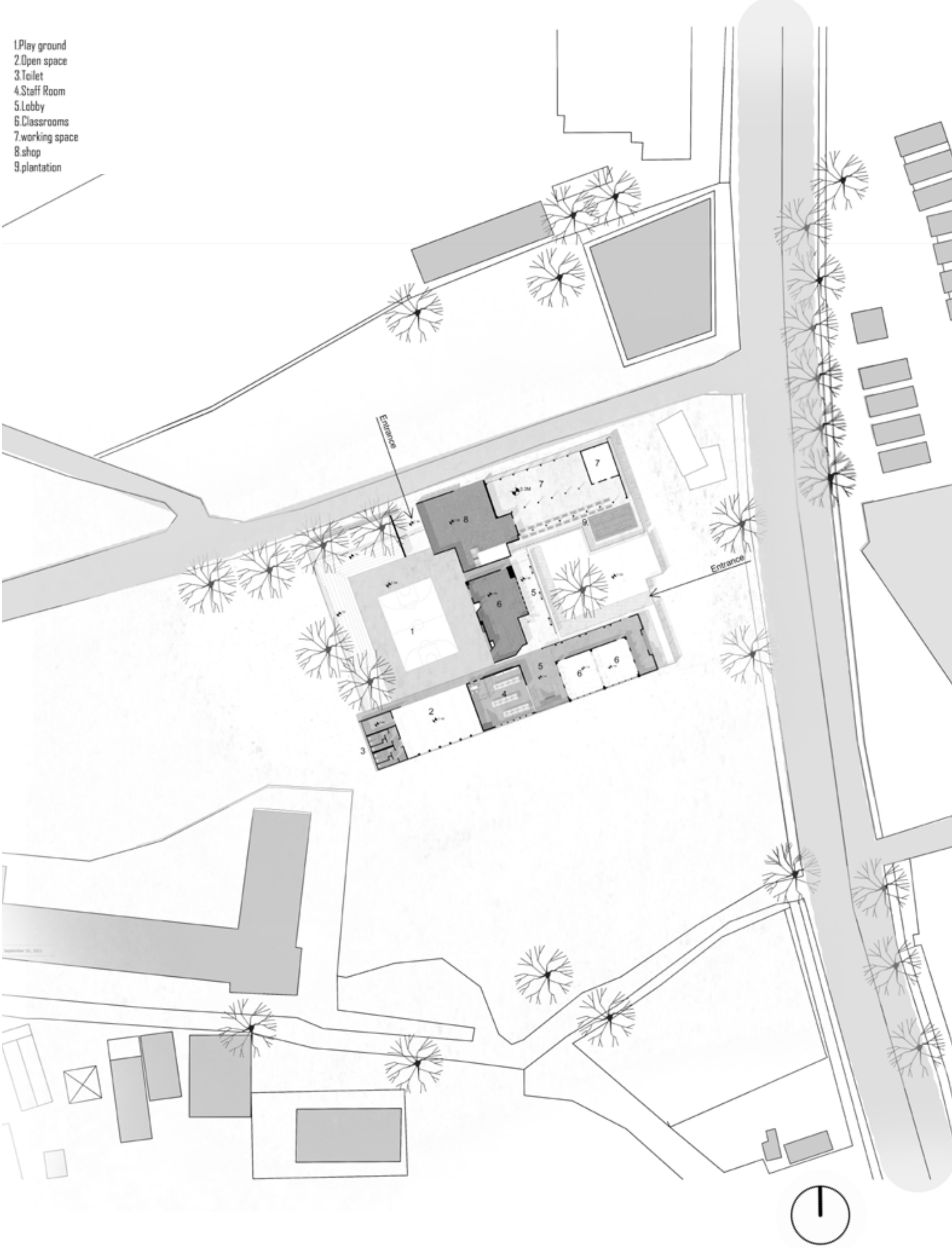


Meaning :-

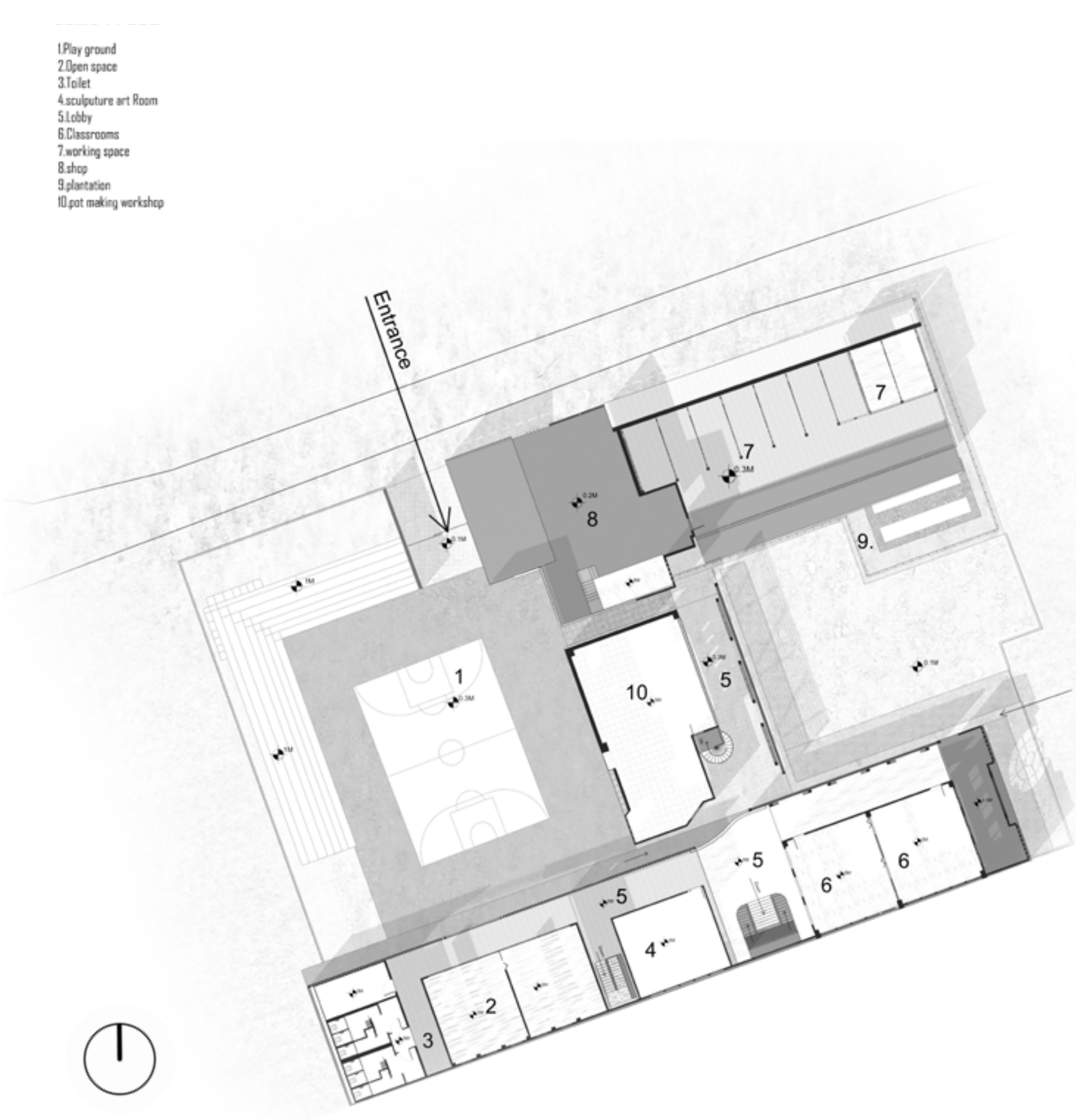
some times you need frames in life, to see clearly..



Ground plan with Site context



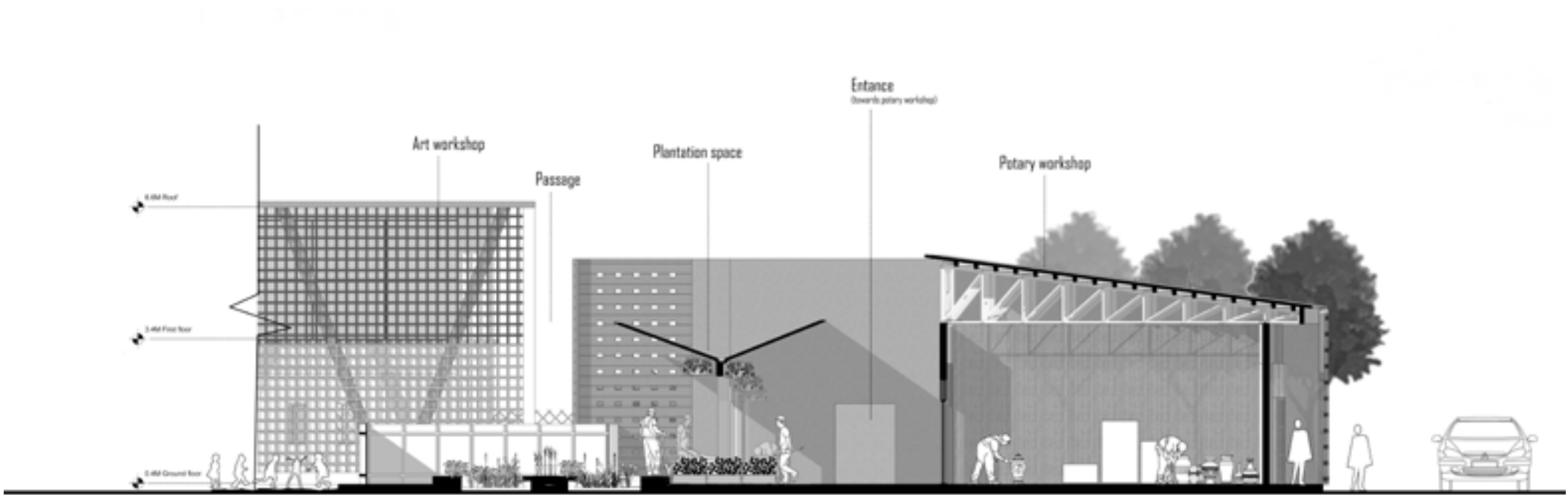
First floor plan



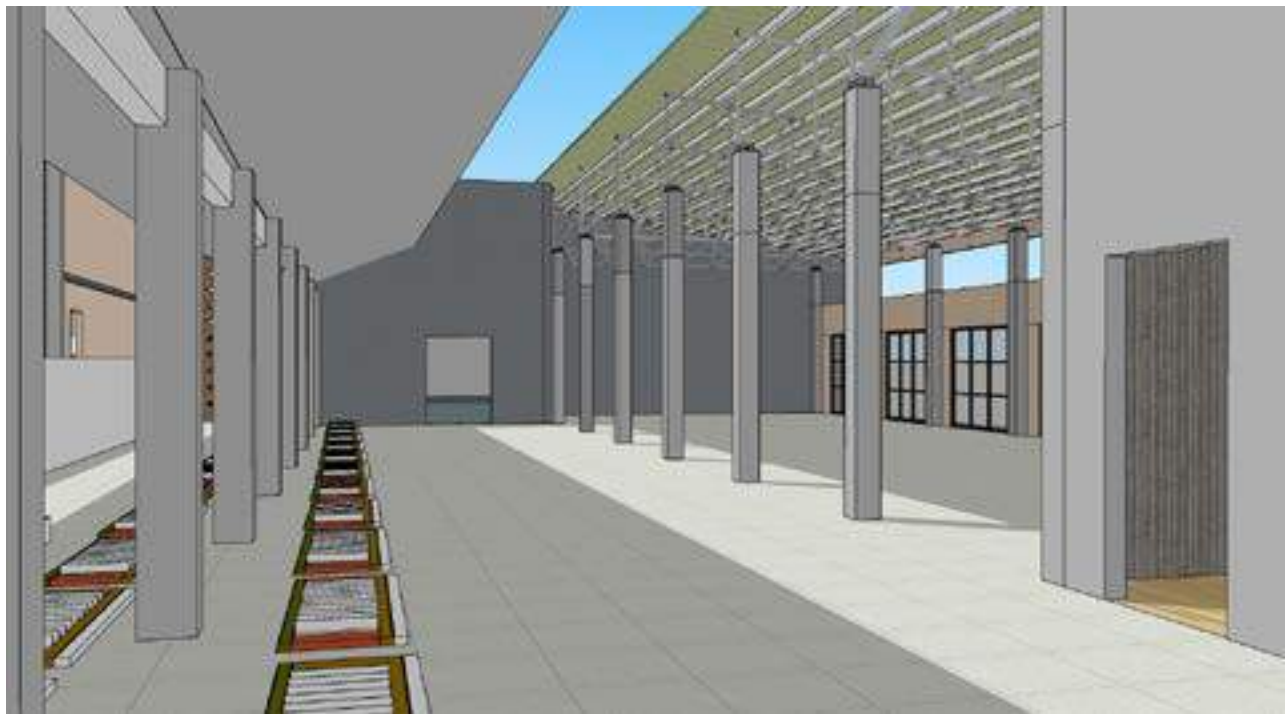
The core concept of this community centre is to create a school space which is enabling and encourages experiential and allied learning, over Individualistic and curriculum-focused education. The classrooms all open out towards the playground and garden, allowing the students for various activities. the corridors of the building are opened in the direction of the wind while taking care that rain does not enter through the same openings. The aforementioned playgroup is also expanded and incorporated into the structure by lending an open arm towards the neighbouring building anTd locating which is available for anyone in the neighbourhood.



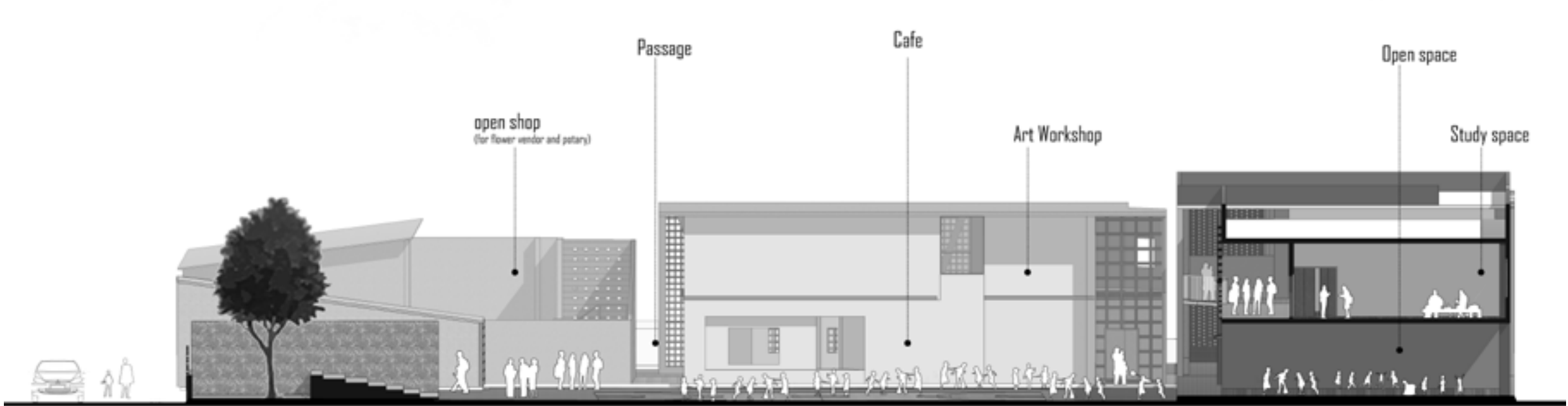
VIEW TOWARDS SCHOOL FRONT FACADE



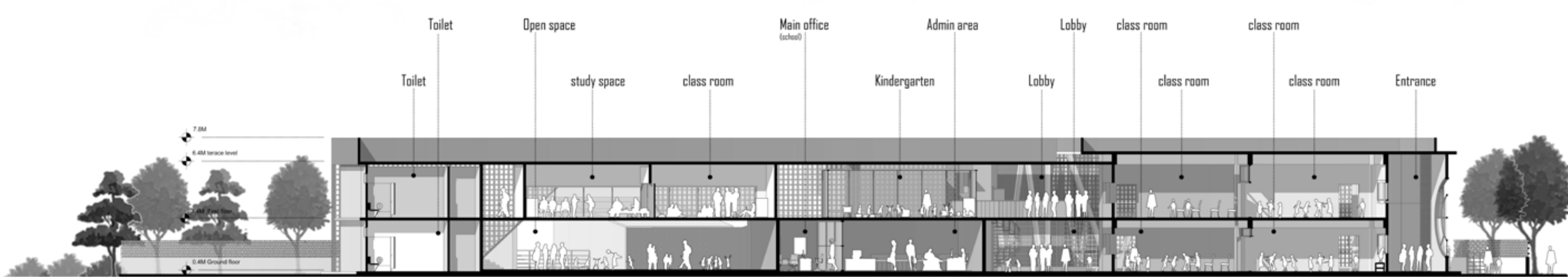
SECTION AA'



VIEW IN THE POTTREY WORKSHOP AND PLANTATION AREA



SECTION BB'



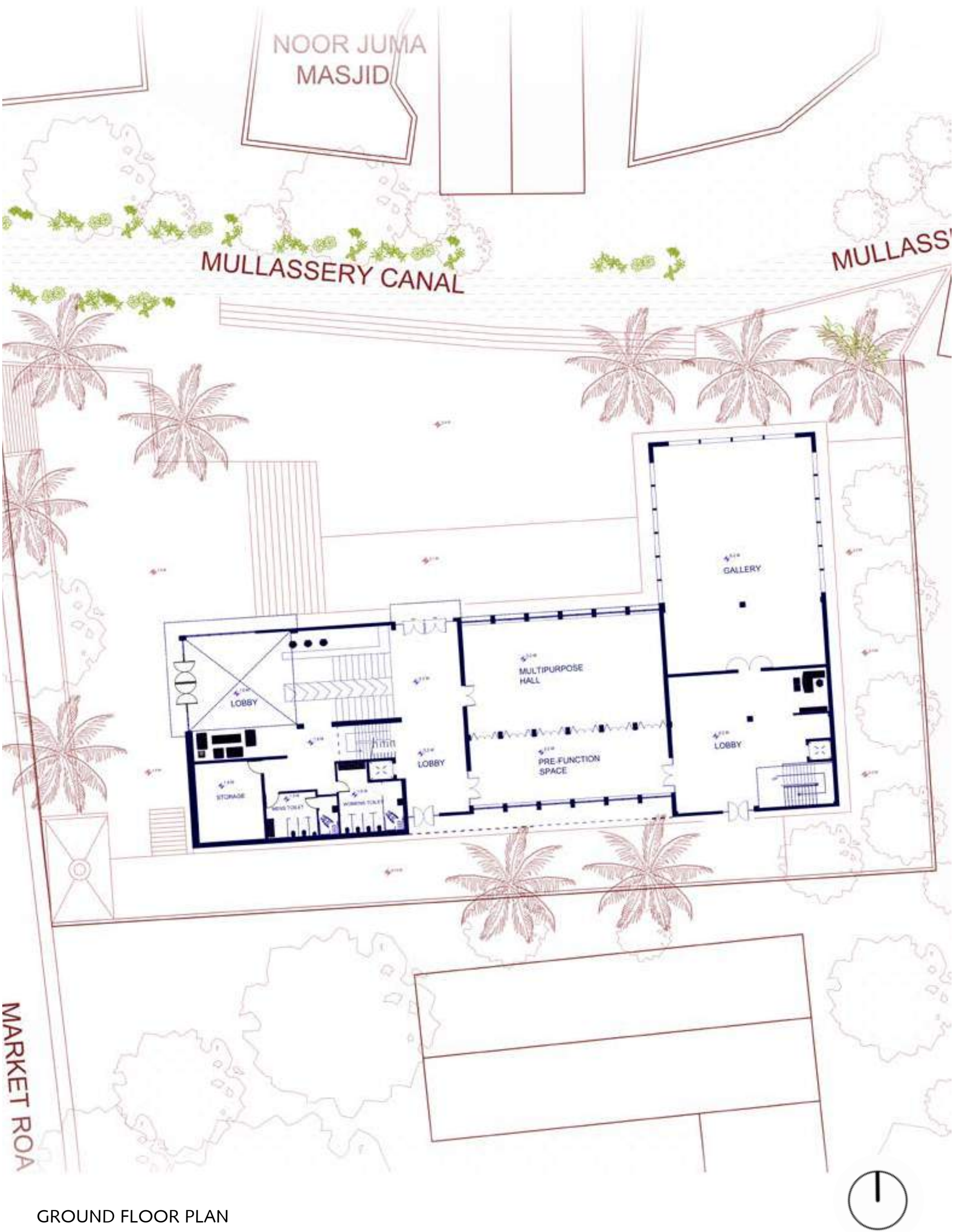
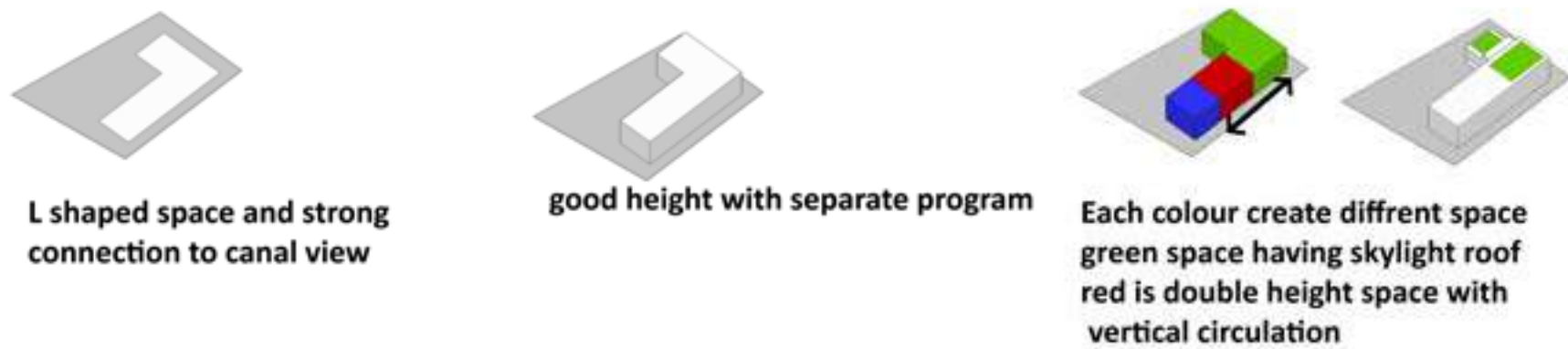
SECTION CC'

THE IDEAL DEMOCRATICAL BUILDING

KOCHI ADMINISTRATIVE CENTRE
SEMESTER VI | 2021

The project is set in Kerala, often heralded as a practical representation of the ideals of democracy. So an important part of the process was understanding the political context and the endeavours, often considered. Idealistic views of democracy, that can be realised within it. the project was to allow the programs to be individual structures which are arranged in a manner that creates courtyards and spillover areas. the project was also a response to the canal's need to be experiential but also environmentally sensitive. The KUAC centre is a part of this response, it acts as both a lively public space and as a flood buffer. the spaces required for the ward office happen on the upper floors and other programs designed for the congregation and public use were all consciously placed at the ground level, thus creating a large public realm by the canal edge.

DESIGN PROCESS





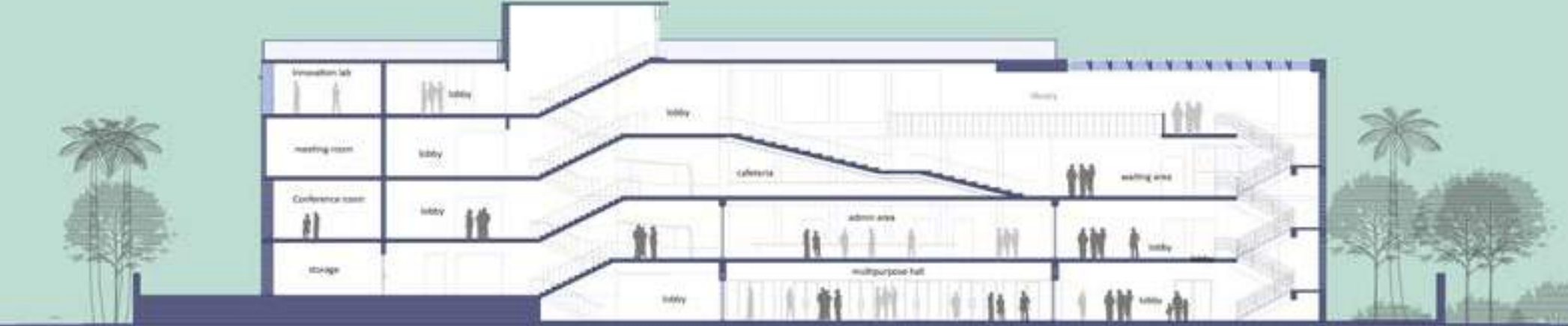
FIRST FLOOR PLAN



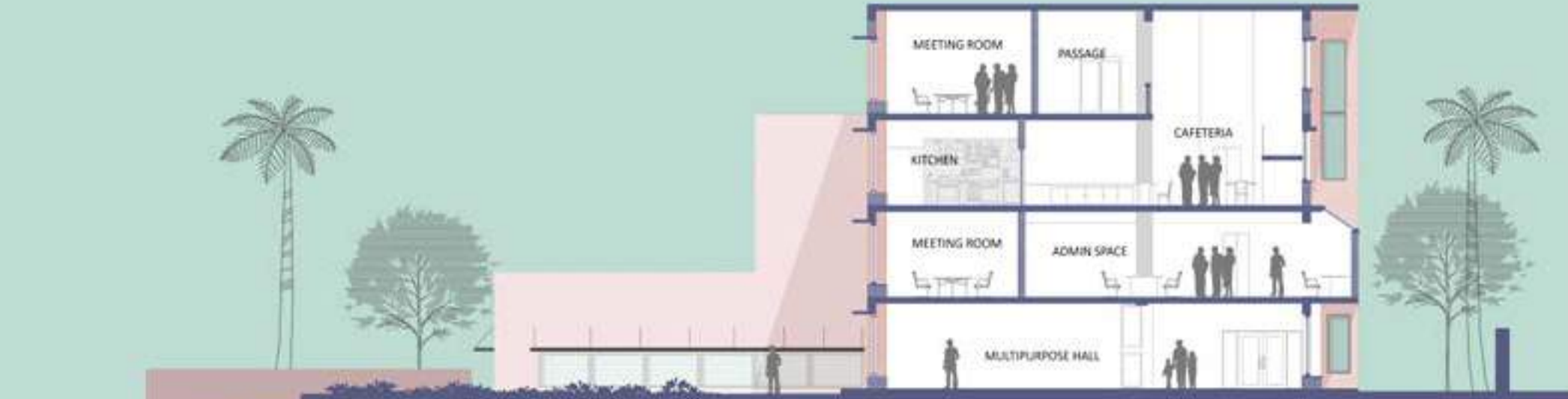
SECOND FLOOR PLAN



THIRD FLOOR PLAN

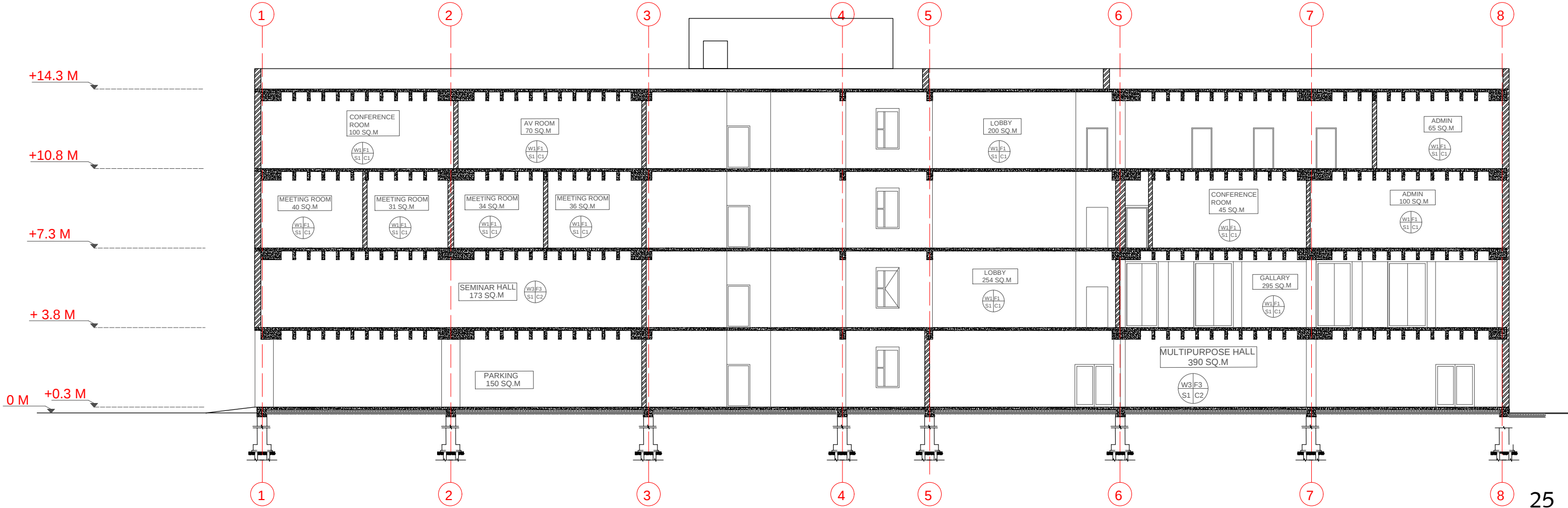
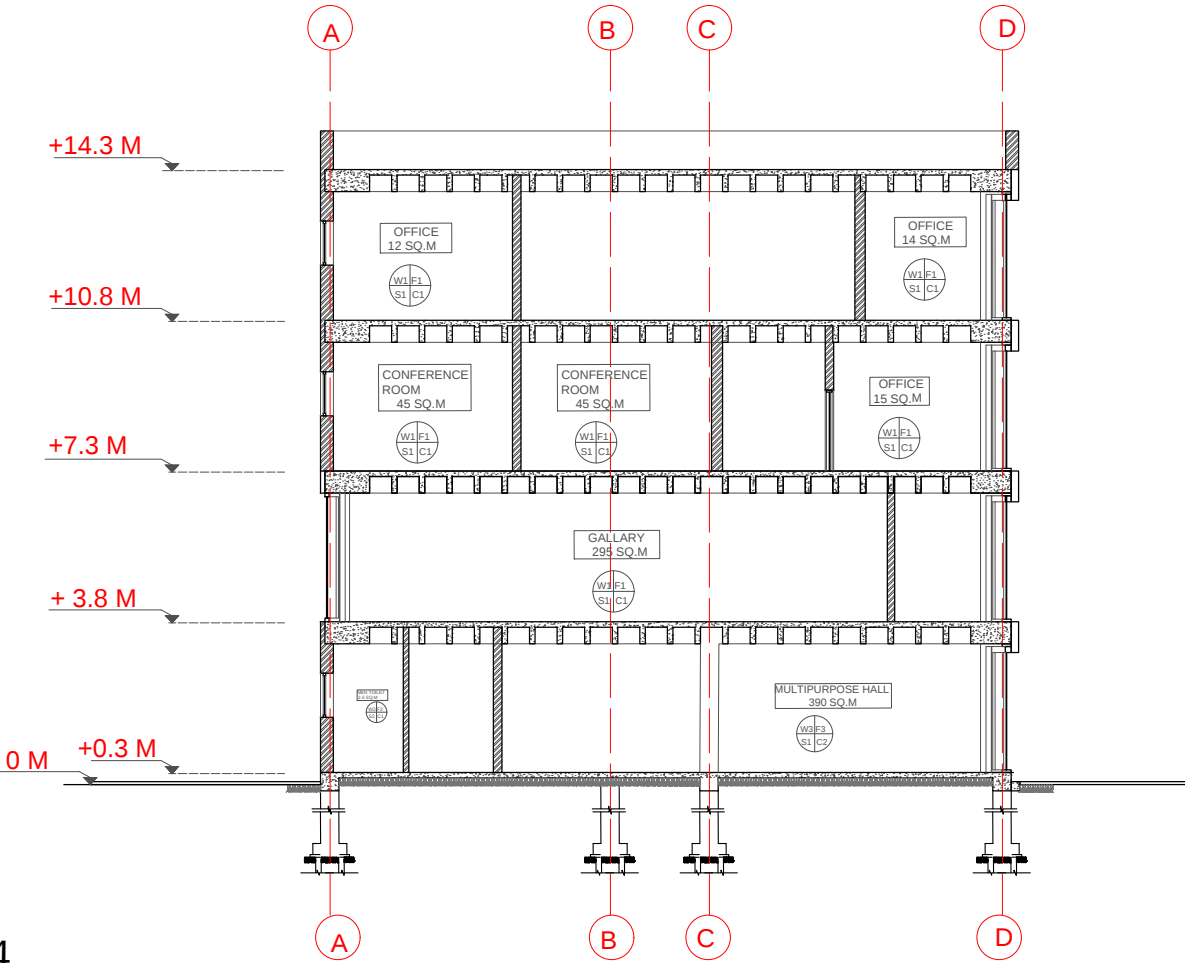
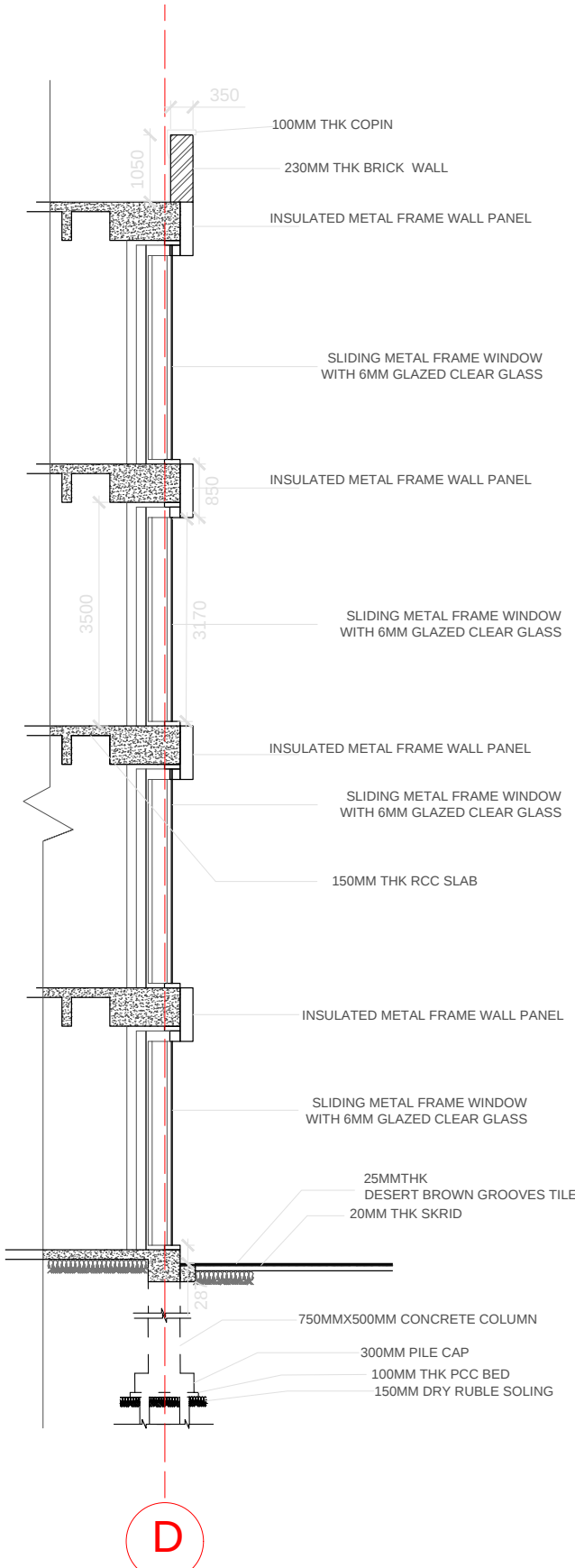
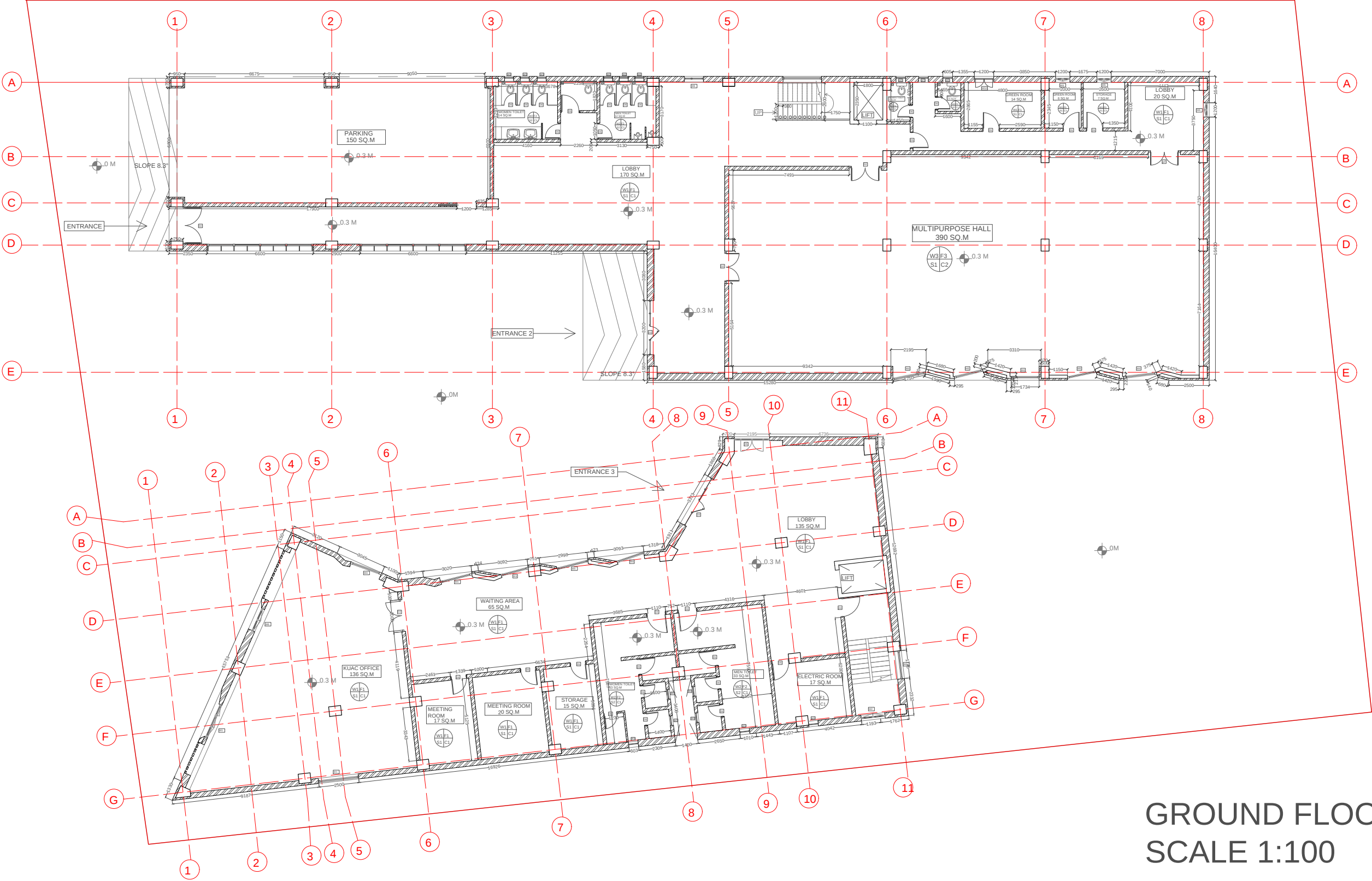


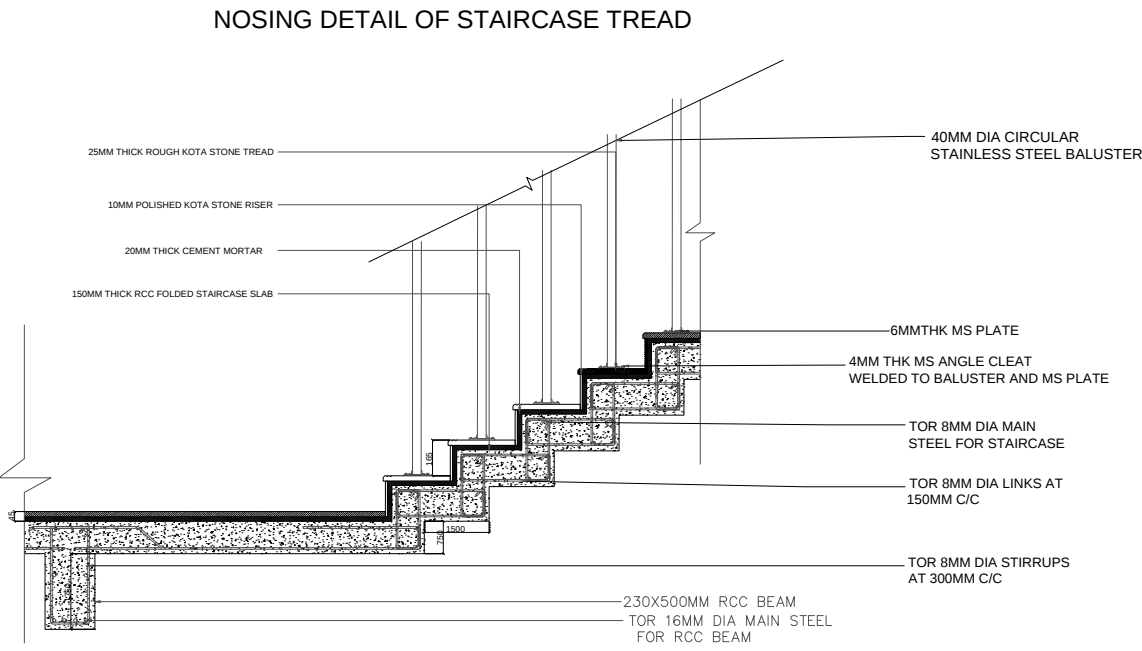
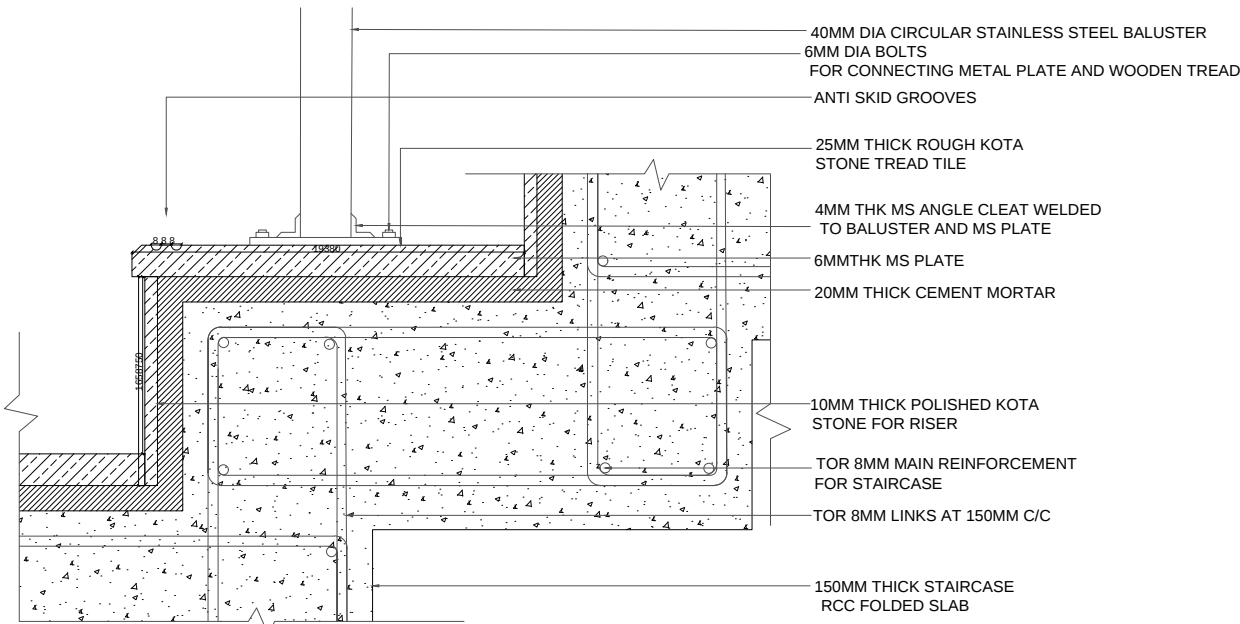
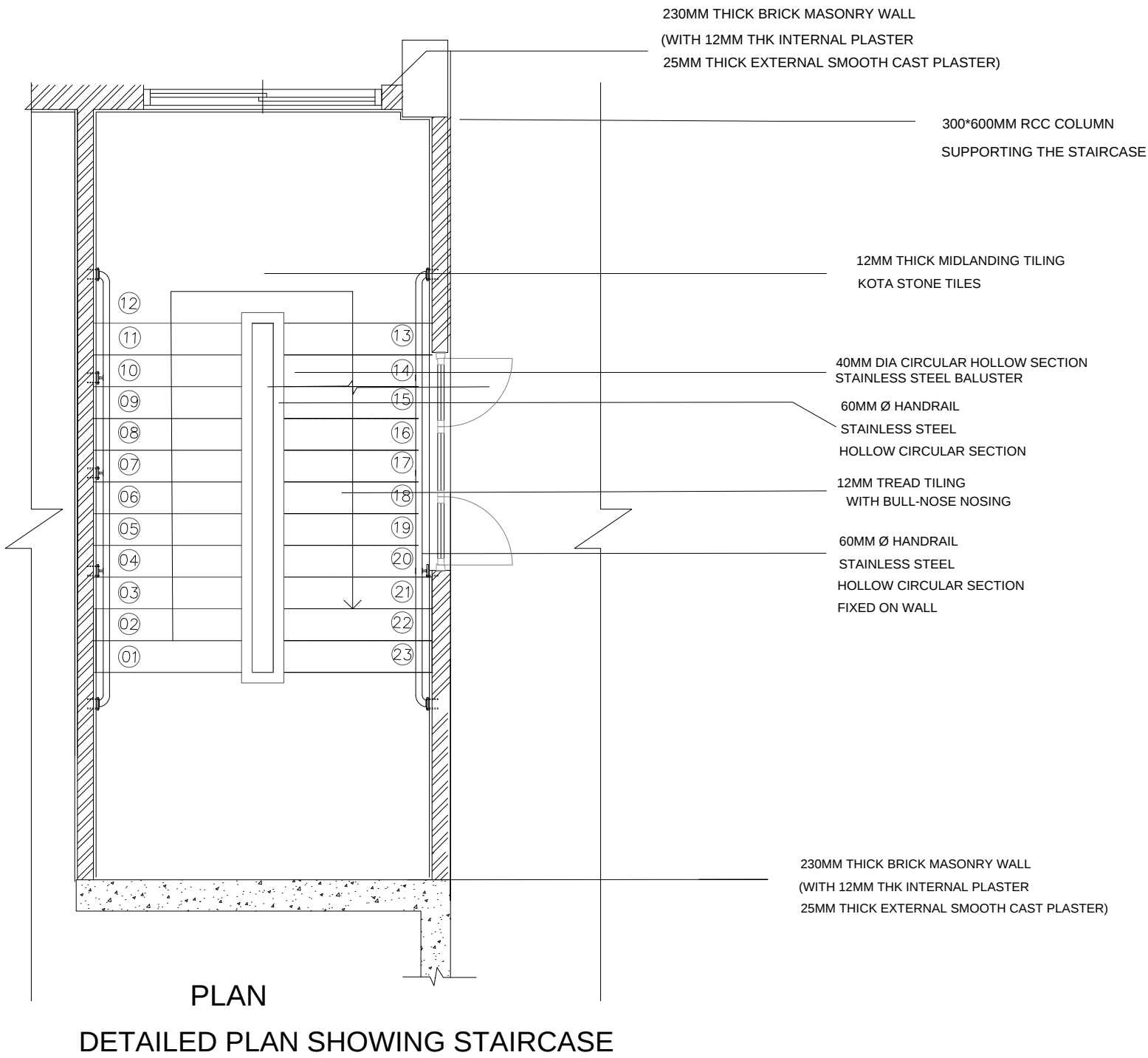
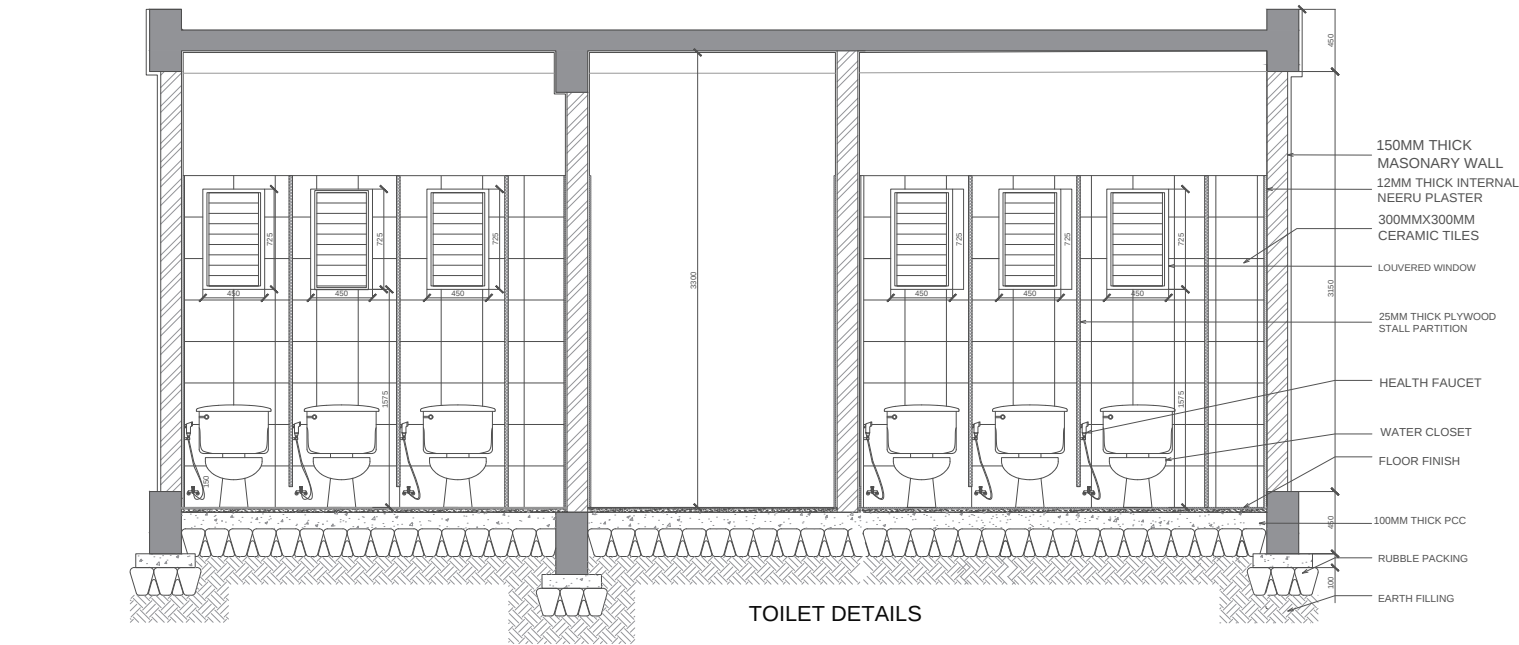
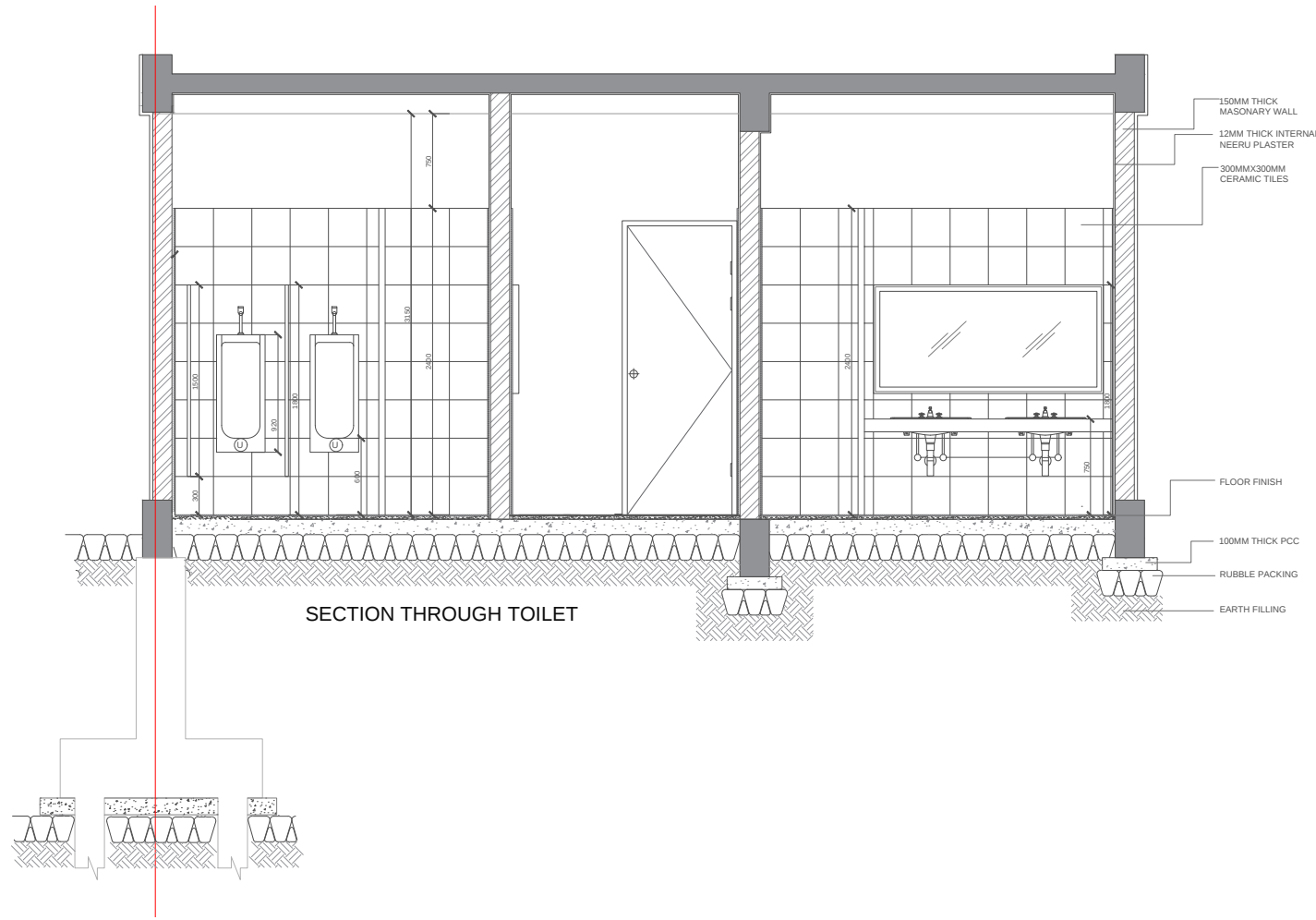
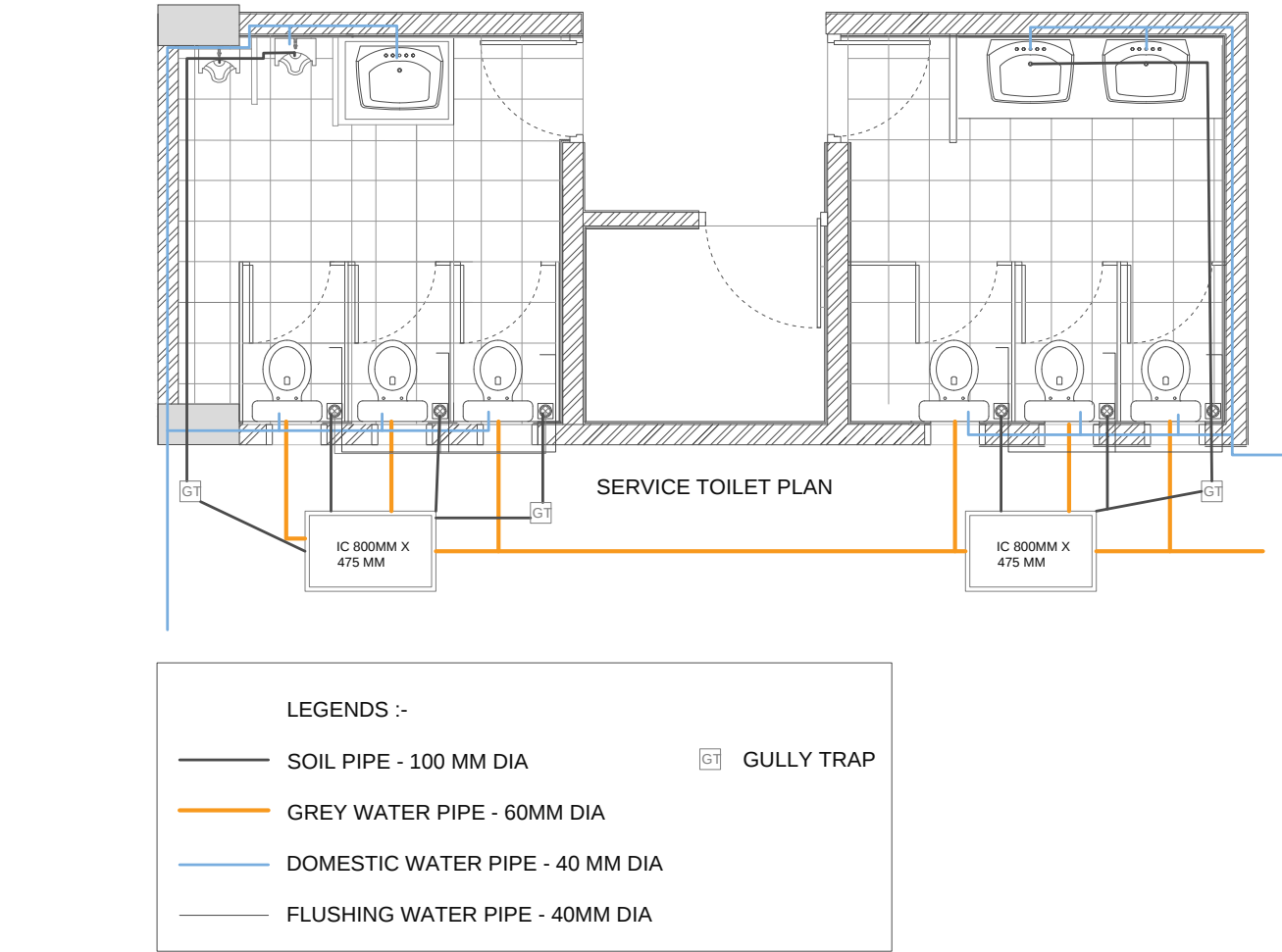
SECTION AA'

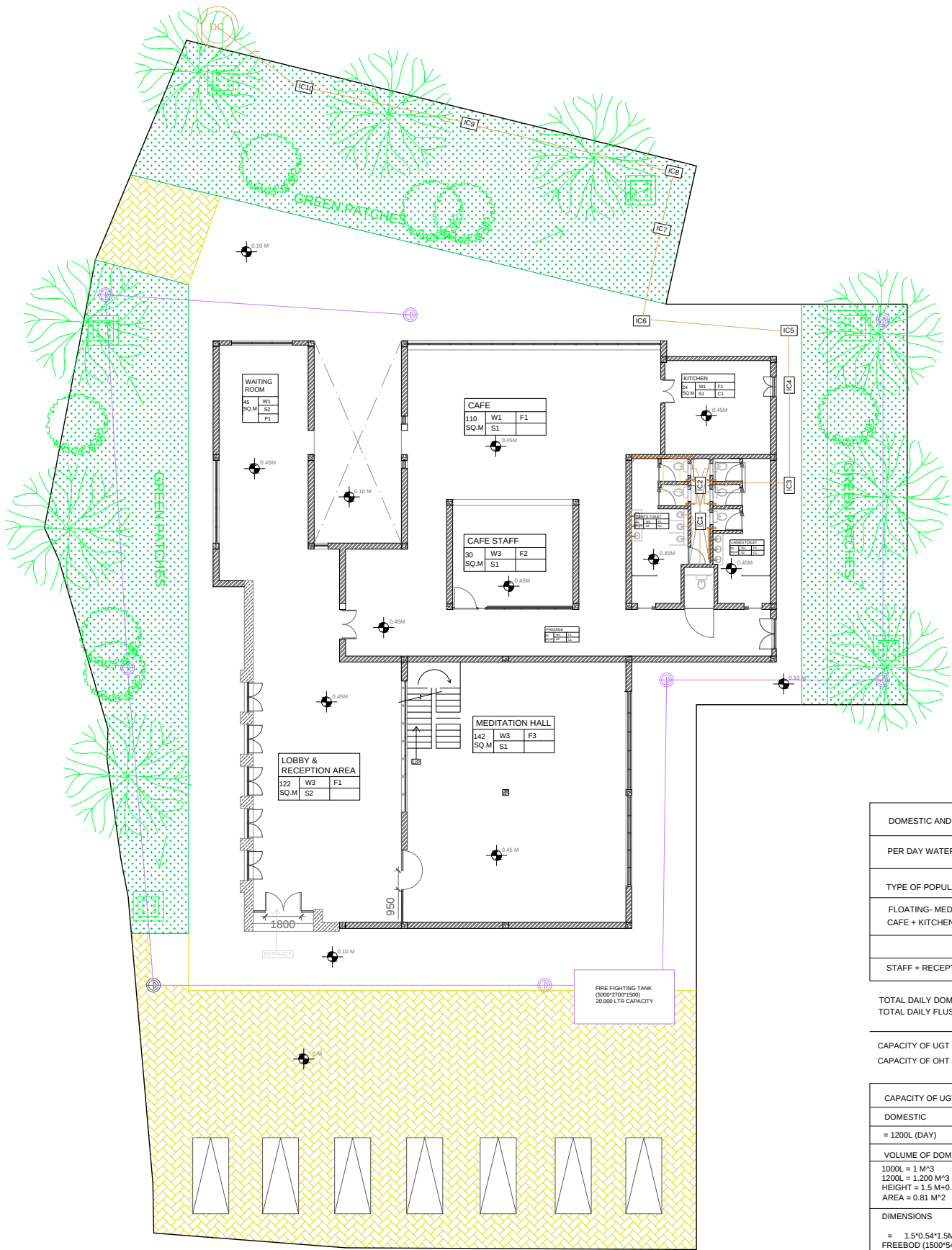
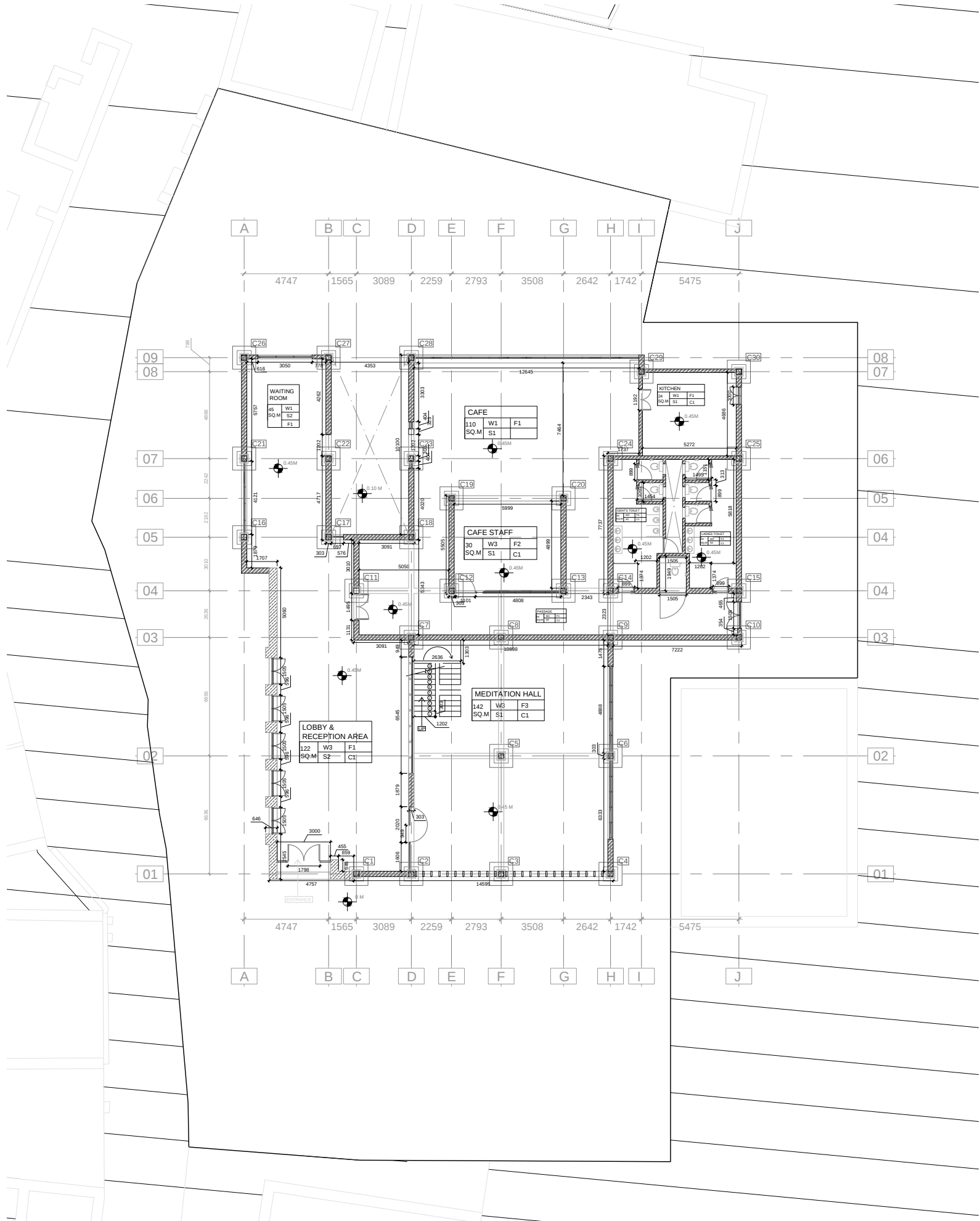


SECTION BB'

WORKING DRAWINGS







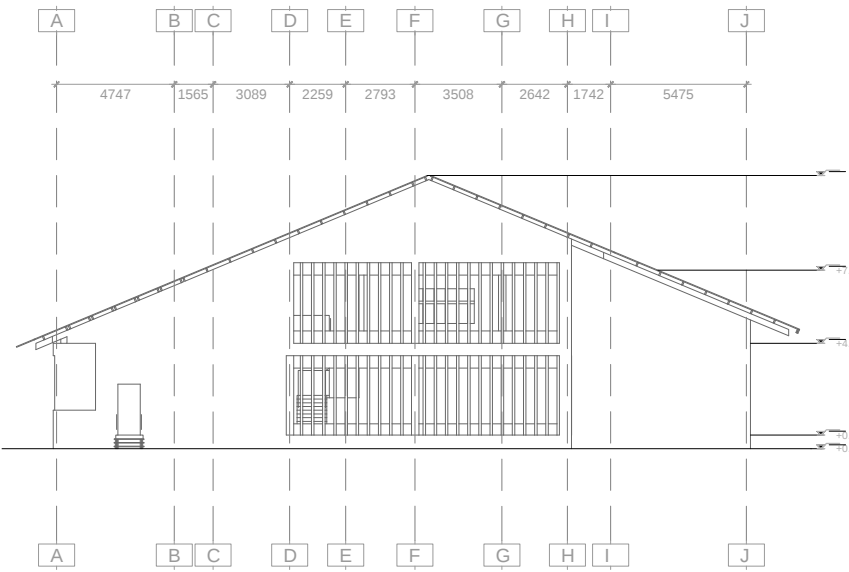
DOMESTIC AND FLUSHING WATER CALCULATION			
PER DAY WATER REQUIREMENT CALCULATION TABLE			
TYPE OF POPULATION	NO. OF PEOPLE	DOMESTIC - 30L/45L	FLUSHING - 15L/45L
FLOATING- MEDITATION + CAFE + KITCHEN	70 + 30 + 20 = 120	0.5 (120)*50 = 1800	0.5(120)*15 = 900
STAFF + RECEPTION	15	600	450

TOTAL DAILY DOMESTIC WATER REQUIREMENT = 1800 + 600 = 2400L
TOTAL DAILY FLUSHING WATER REQUIREMENT = 900 + 450 = 1350L

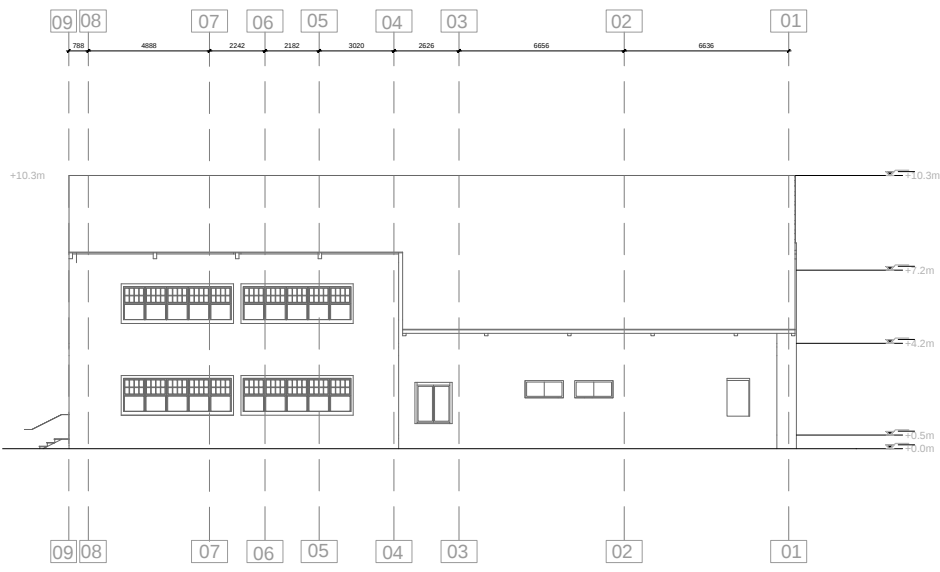
CAPACITY OF UGT = STORAGE OF 0.5 DAYS REQUIREMENT
CAPACITY OF DHT = STORAGE OF 1 DAYS REQUIREMENT

CAPACITY OF UGT		INVERT LEVEL (MM) SLOPE 1:60
DOMESTIC	FLUSHING	
= 1200L (DAY)	= 675L (1/2 DAY)	IC 1 -430
VOLUME OF DOMESTIC TANK	VOLUME OF FLUSHING TANK	IC 2 -450
1000L = 1 M ³	1000L = 1 M ³	IC 3 -470
1200L = 1.200 M ³	675L = 0.675 M ³	IC 4 -480
HEIGHT = 1.5 M+0.3 M (FREEBOD)	HEIGHT = 1.5 M+0.3 M (FREEBOD)	IC 5 -490
AREA = 0.81 M ²	AREA = 0.448 M ²	IC 6 -500
DIMENSIONS	DIMENSIONS	IC 7 -511
= 1.0*0.54*1.0M + 0.3M	= 0.83*0.54*1.0M + 0.3M	IC 8 -620
FREEBOD (830*540*1500 MM)	FREEBOD (830*540*1500 MM)	IC 9 -650
		IC 10 -693
		DC -920

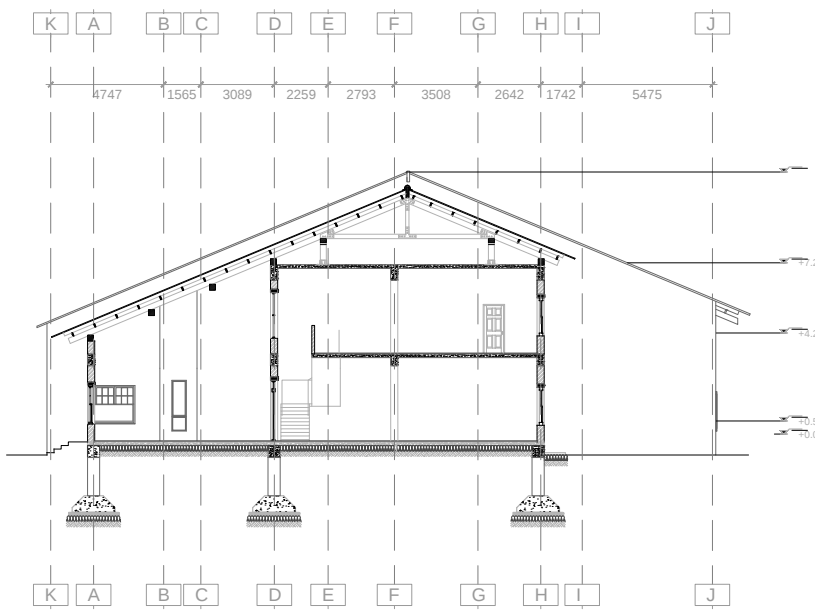
PROVISION OF FIRE FIGHTING SYSTEM TANK OF 20,000L CAPACITY
ALONG WITH SITE HYDRANTS AND SUPPLY LINES AS SHOWN.



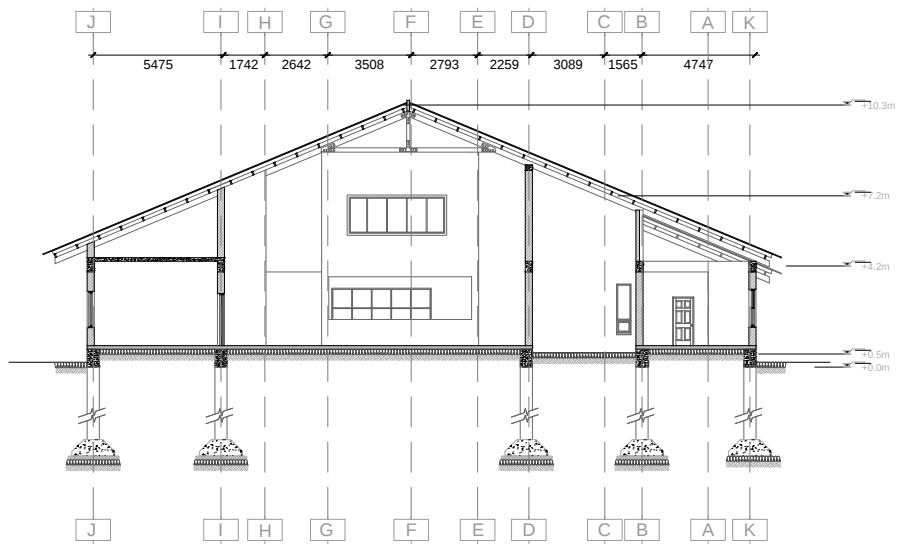
FRONT ELEVATION



LEFT ELEVATION



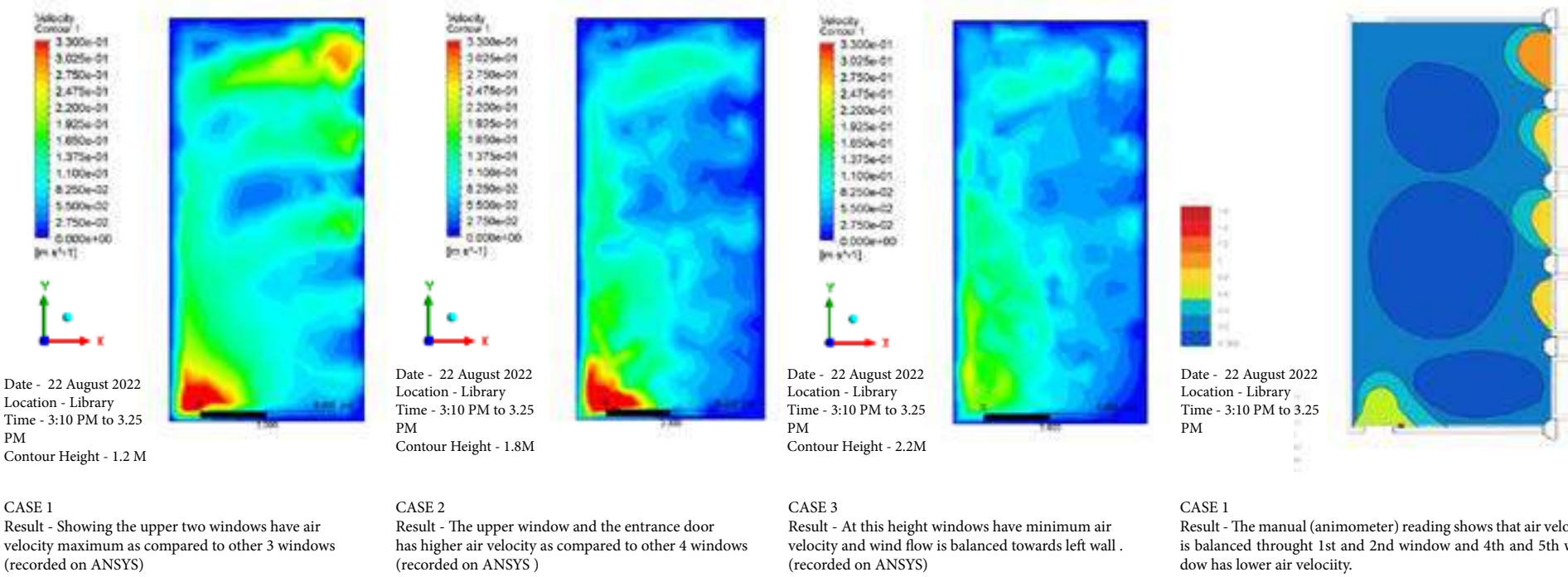
SECTION A A"



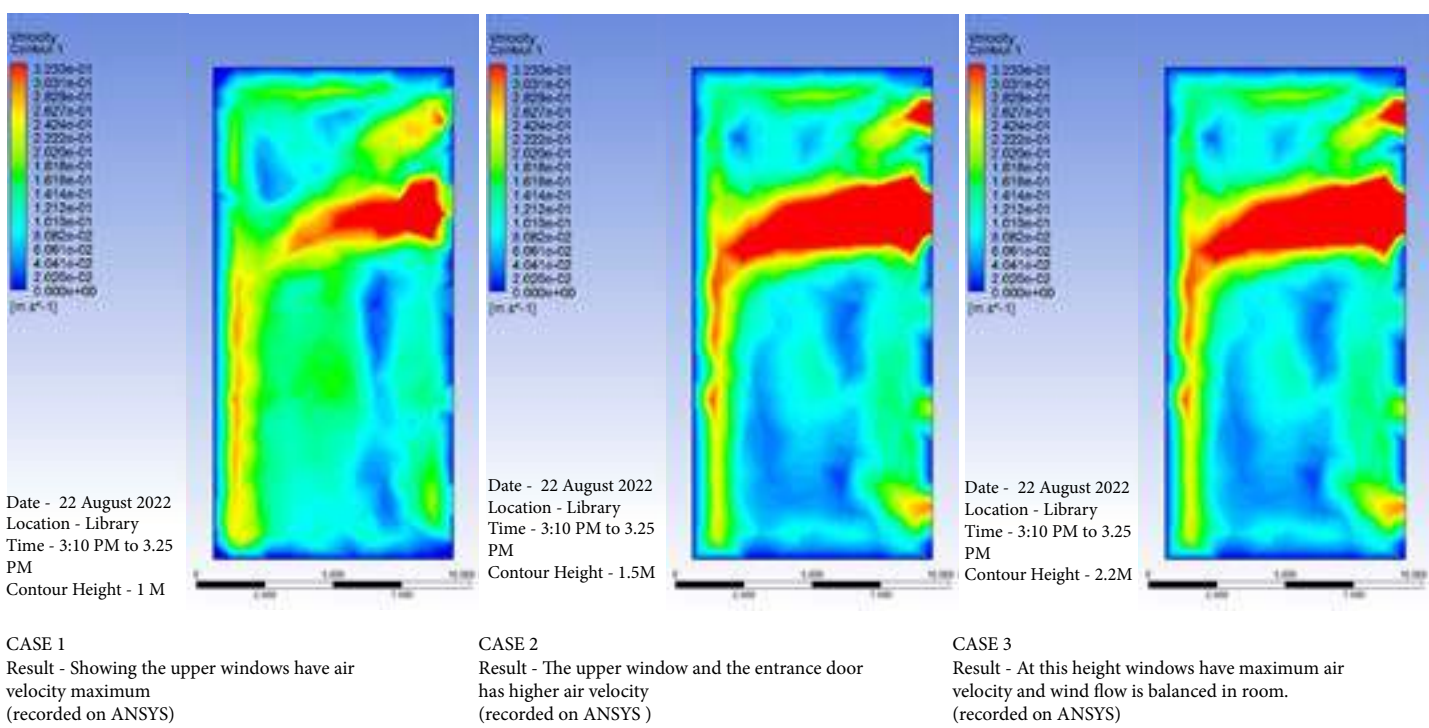
SECTION CC"

Natural Ventilation Workshop - Intergrated Design Studio
Semester 7
In this studio we intent to take reading of space by by each one of the group and implimanting the reading in digital software to give result of ventilation velocity diagrams via ansys software.

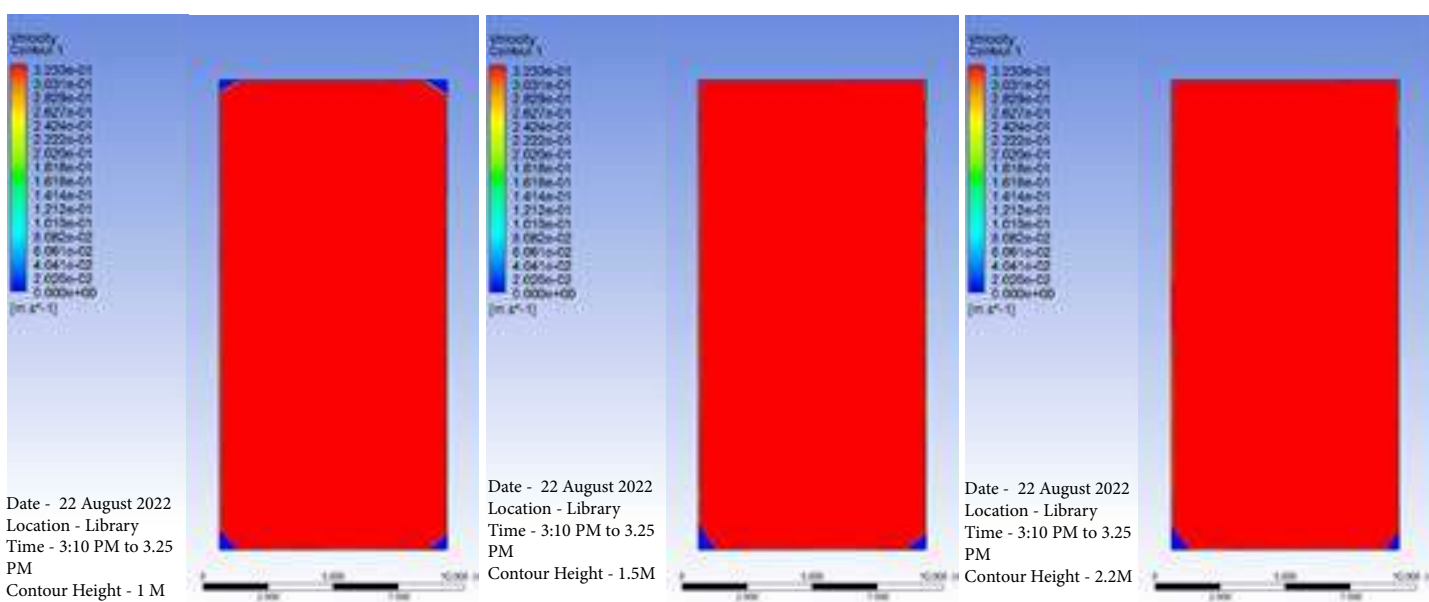
EXISTING SITUATION READING



ITERATION 1 READING - ADDING 5 CLERESTORY WINDOWS (1200 X 300 MM)



ITERATION 2 READING - INCREASED WINDOW HEIGHT



CONCLUSION -

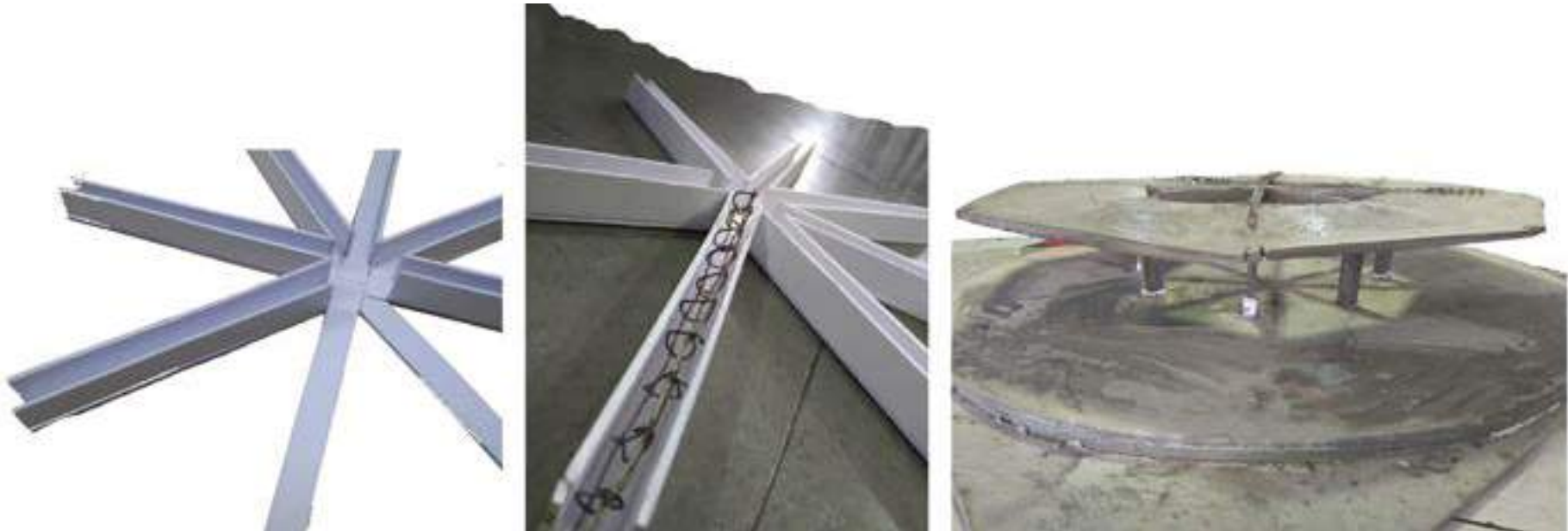
Exsiting condition and placement of exsiting windows are correct requirement of the air flow which balances the space with proper ventilation.

Rohit Rathod 1865
Amey Pugaonkar 1969
Apurva Lokhande 1951

Miscellaneous

Parking lot- Theory of Structures
Semester 3

This studio focused on using RCC as material to design monolithic parking lot.



Fruit Morph - Allied Design Studio
Semester 1

This studio intent to create and imagine the deformation of the fruit with its narrative using trangulated surface development with file card sheet (material).

the bringal forming in angry bringal



MODEL AND PLAN



ITERATION 1 VIEW



ITERATION 2 VIEW



Model Making





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