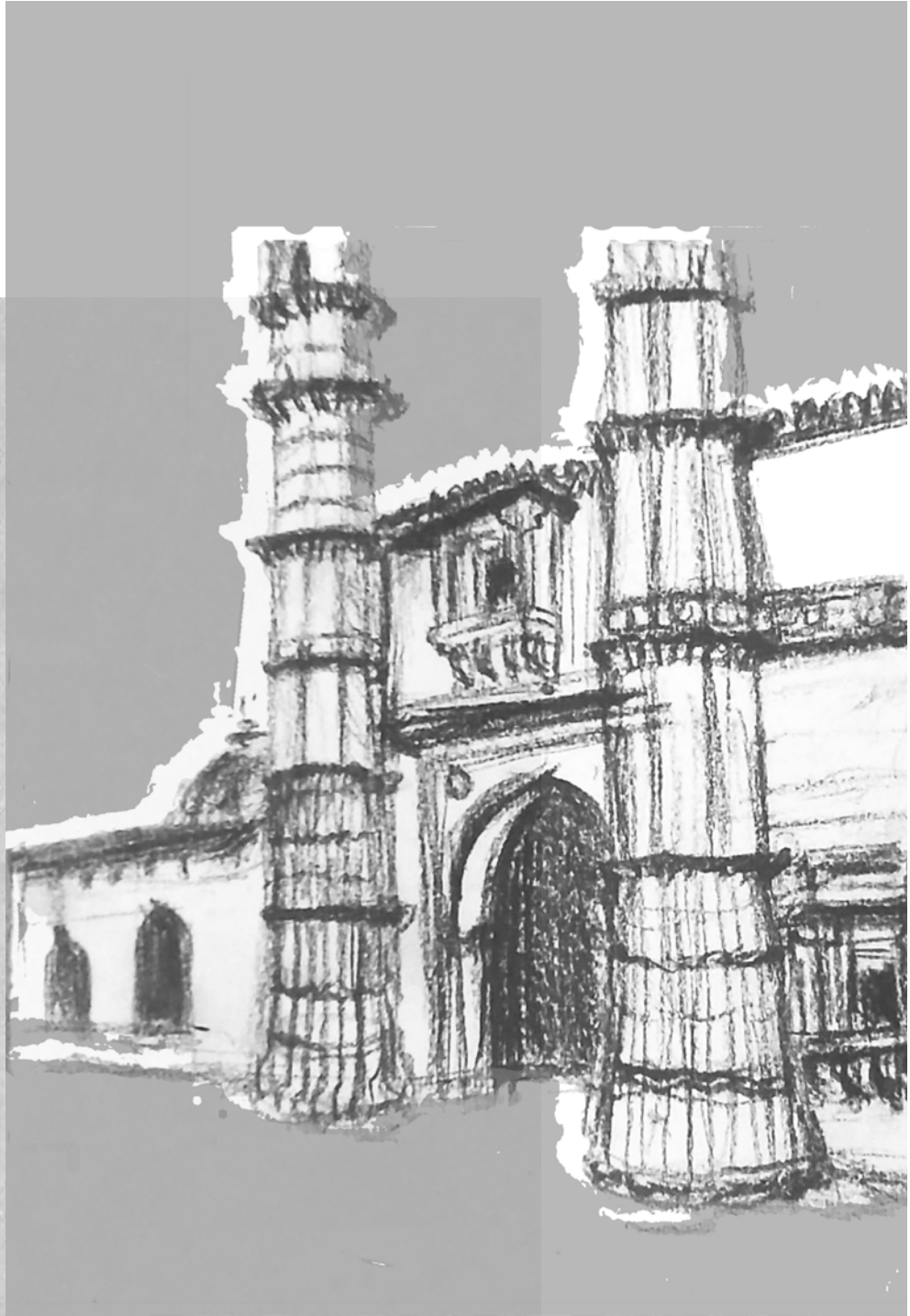




Portfolio

Anokhi Brahmhatt
CEPT University

CURRICULUM VITAE ANOKHI BRAHMBHATT 04.11.1998 CEPT UNIVERSITY AHMEDABAD SEMESTER 6 SCHOOL OF ARCHITECTURE EMAIL ID anokhi.brahmbhatt.barch16@cept.ac.in CONTACT +91 7984711505 ADDRESS 101,102 Akshardham appartment, Yougiraj park society,tithal Road,valsad.- 396001 Gujarat LANGUAGES ENGLISH HINDI GUJURATI	EDUCATION School Jai Ambe Vidhyabhavan Valsad, Gujurat Bachelor in Architecture CEPT University (Completed 3rd yr) DIGITAL SKILLS AUTOCAD Sketch up Adobe Photoshop Adobe Indesign Adobe Ilustrater Microsoft Powerpoint Microsoft Excel HAND SKILLS Drafting Sketching (Water colours, Charcoal, Pen, Ink) Model making (Board, Thermocol,papers, MDF, Acrylic) Rendering INTERESTS Rendering Sketching This portfolio contains my all over work of six semesteres which reflects more of my interst and my imagination through it.	CONTEXT SEMESTER 1 AND 2 Foundation Program SEMESTER 3 SEWA : Moving with the time, Staying with the Spirits. SEMESTER 4 (Co)production: Designing With People SEMESTER 5 STUDIO A TO O (Working Drawing Studio) SEMESTER 6 Making living Spaces SUMMER SCHOOL - 2019 Planning and design of confined masonary building in Earthquake prone area of India RELATED STUDY PROJECT (RSP) 2016 Houses of Divar Island, Goa
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SEMESTER 1

PROGRAMME:

House for 4

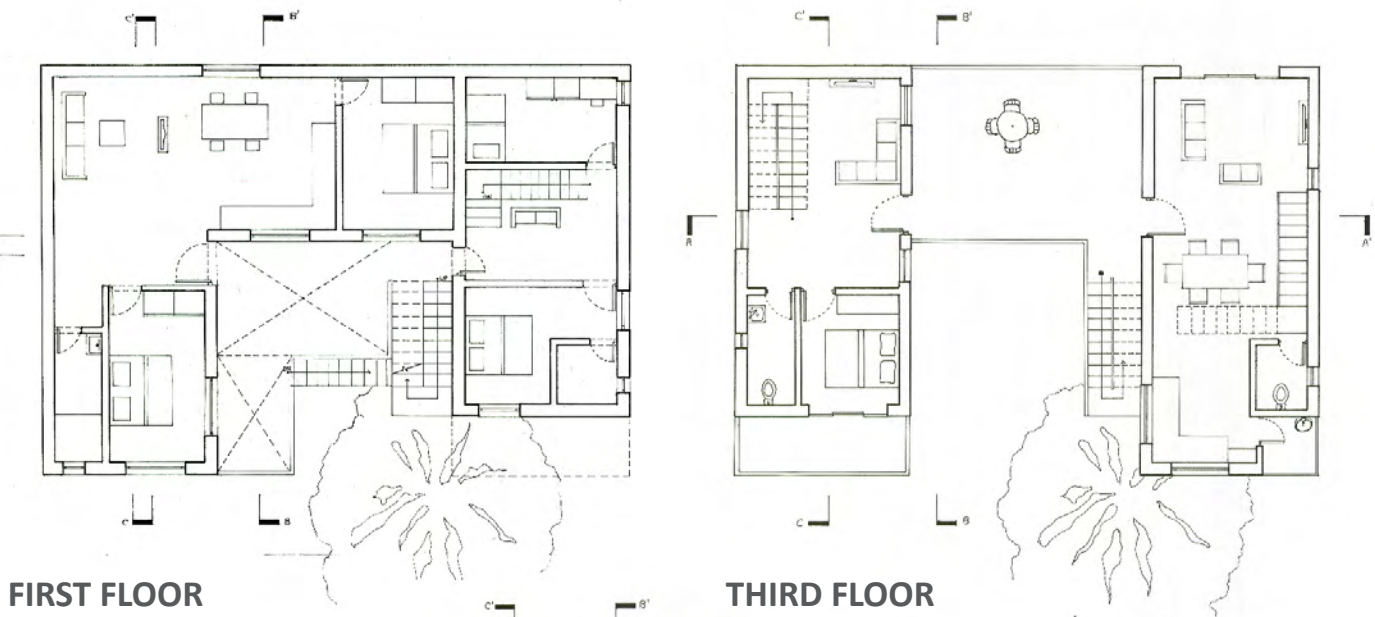
SITE :

Mithakhali,Ahmedabad

BRIEF :

This group project was to design a house for 4 brothers in the Mithakhali area of Ahmedabad. The main challenge was to design in group where each student has to design a house for one brother.

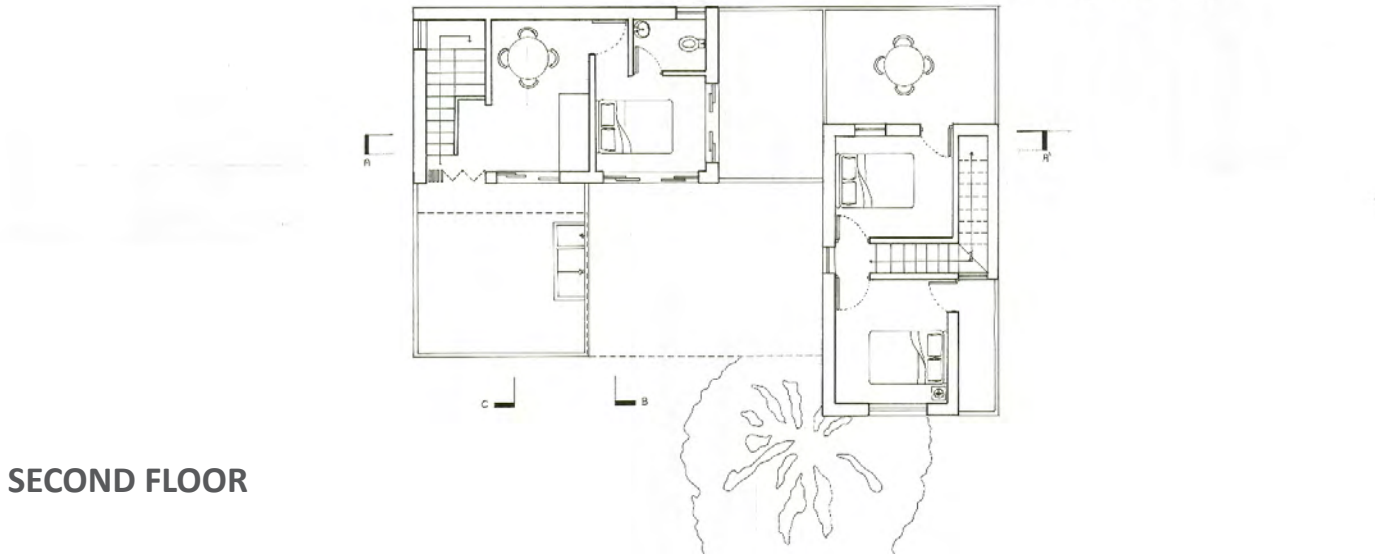
GROUND FLOOR



FIRST FLOOR

THIRD FLOOR

SECOND FLOOR



SEMESTER 2

PROGRAMME :

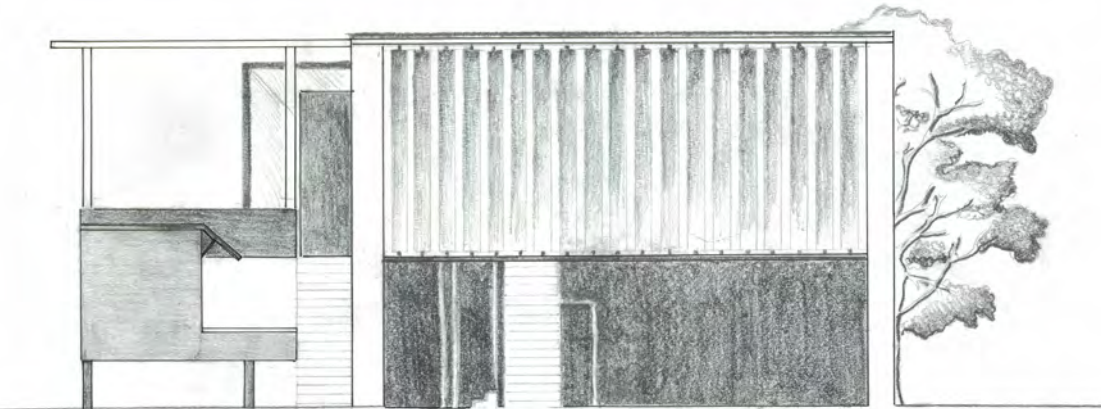
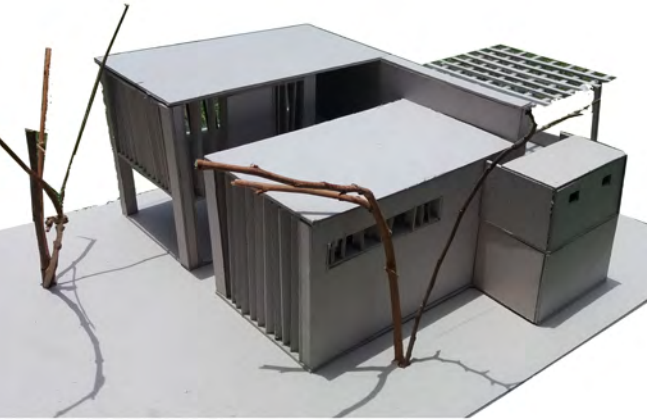
A place for lovers of Art

SITE :

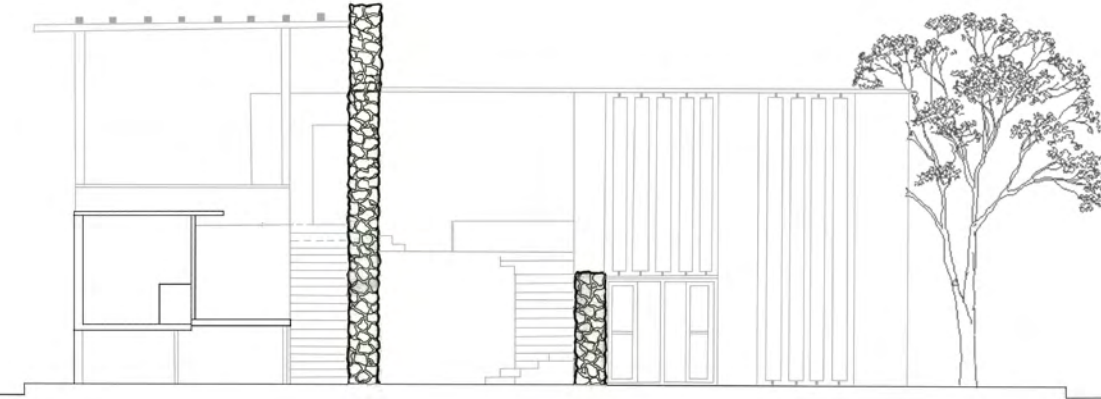
Outskirts of the Ahmedabad city

BRIEF :

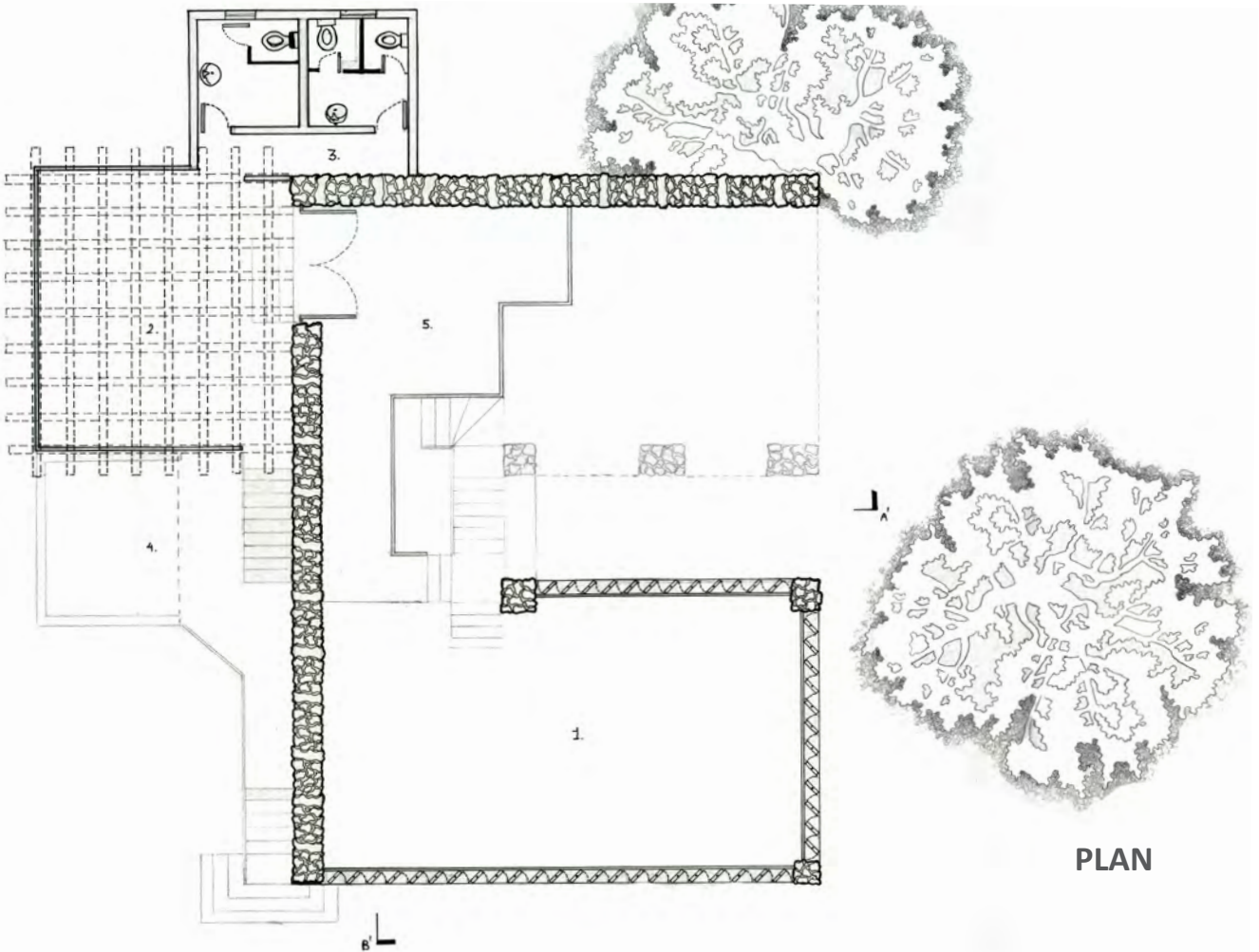
The foundation studio was more focused on Anthropometry, design concept and it's development. where our design language has to follow form, space and order. Our programme was to have some kind of recreational place on the outskirts of the city with an Art gallery (for exhibition), a cafe and gathering place (for discussions) which could encourage people who are great admirers of Art.



ELEVATION



SECTION AA'



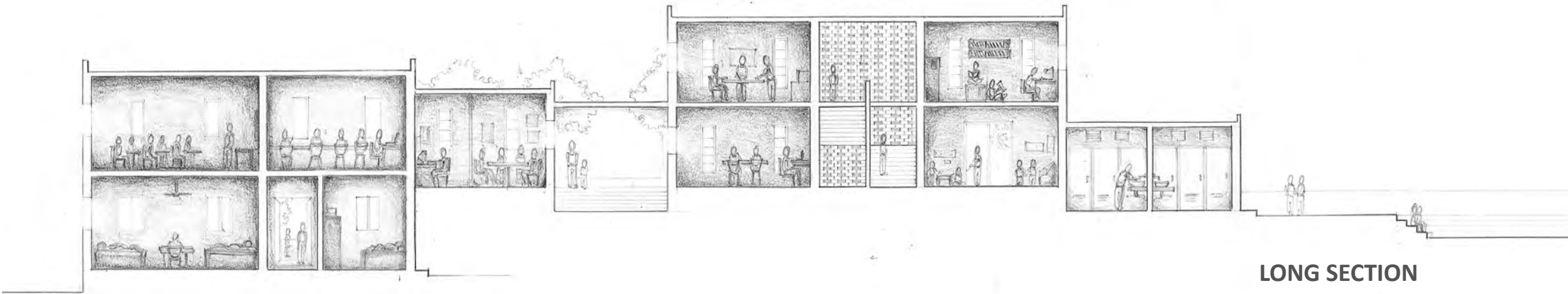
PLAN

SEMESTER 3

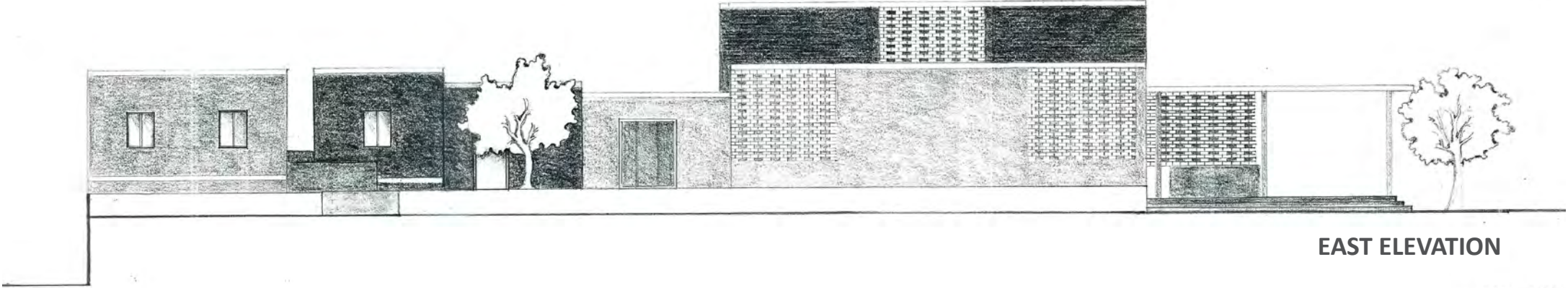
PROGRAMME:
“SEWA- 2030”- Moving with the times, Staying with spirits.

SITE: River front near the Elice Bridge,Ahmedabad

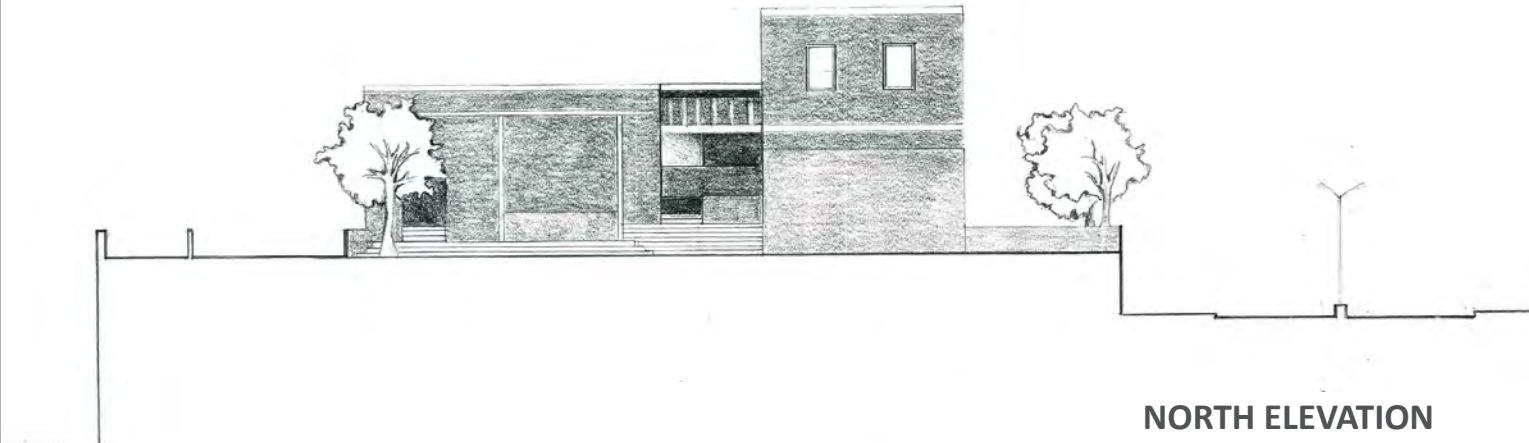
BRIEF :
SEWA - The self employed Women’s Association is a global organisation that works to empower women often in the most marginalised section of society. ‘SEWA - 2030’ aims to equip it’s members for future challenges, where it will be focused on digital training, innovative incubation centre and opportunities for learning and sharing with wider community.
The first step of the process was to understand their ideology and how the whole institute will incorporate with design..making it feel like more home for women towards the modern part of Ahmedabad.



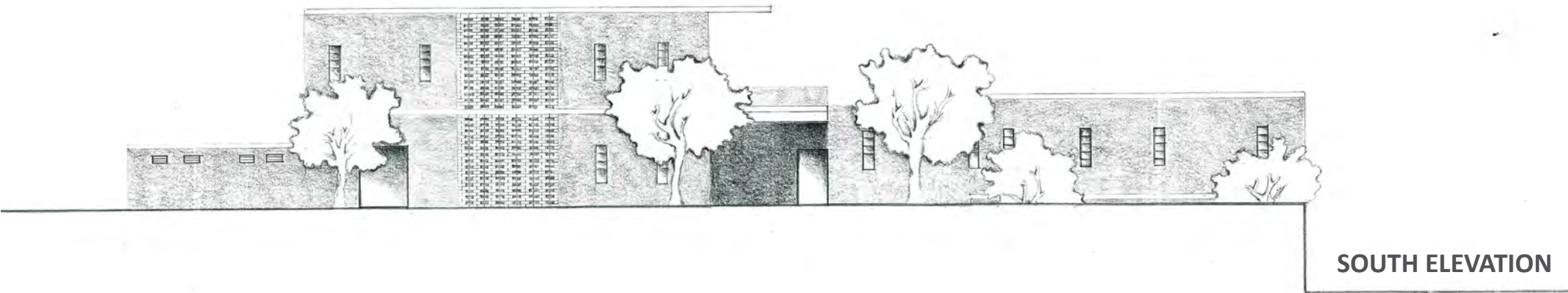
LONG SECTION



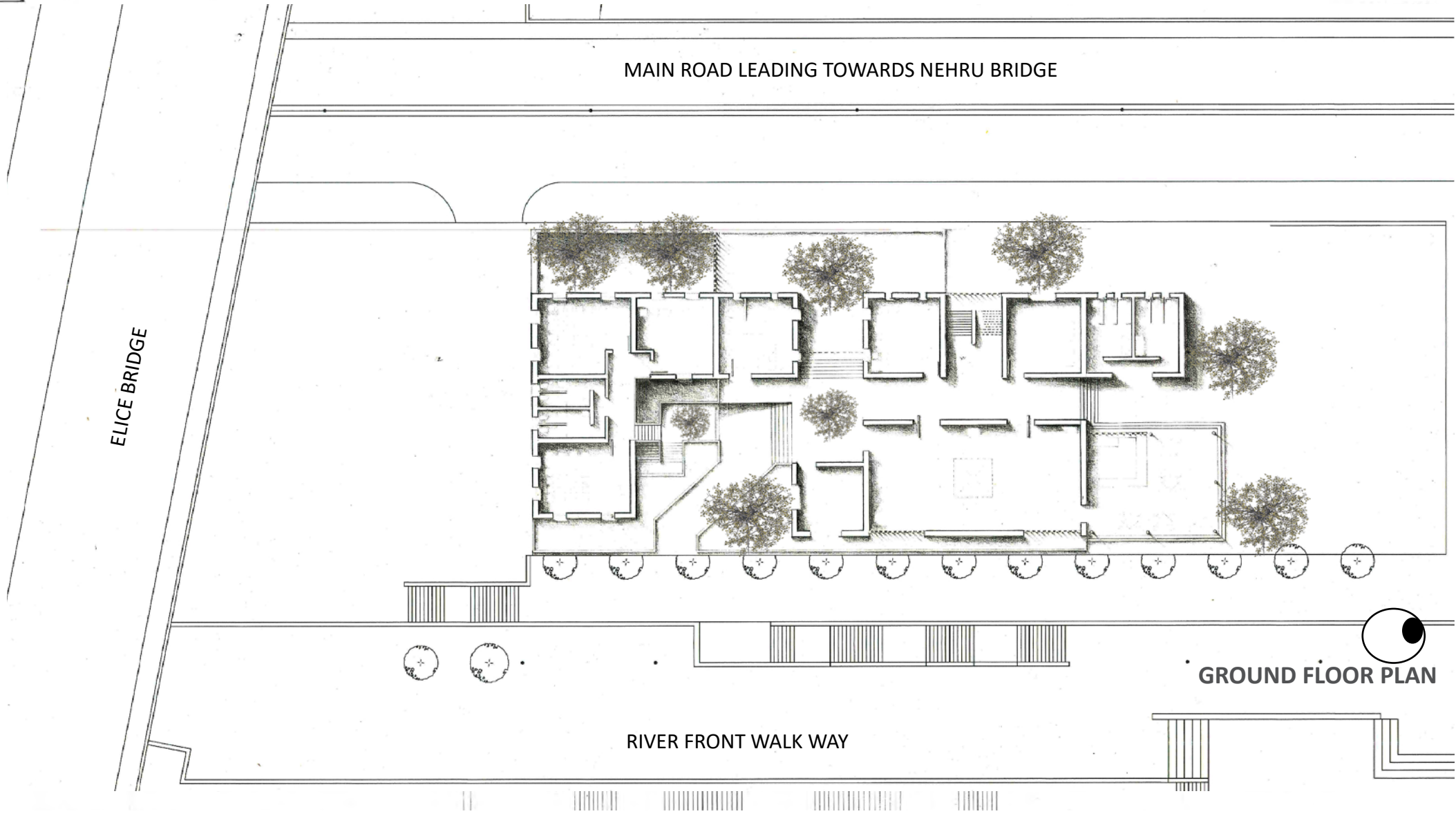
EAST ELEVATION



NORTH ELEVATION



SOUTH ELEVATION



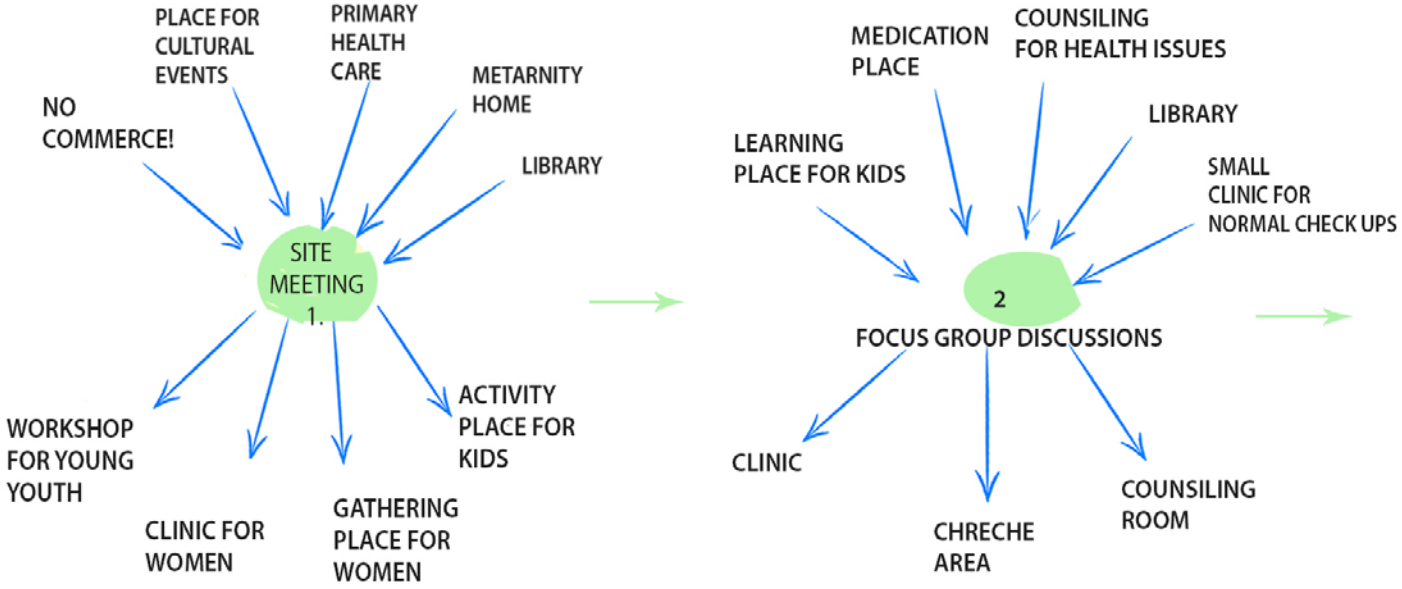
GROUND FLOOR PLAN

SEMESTER 4

PROGRAM:
(CO)PRODUCTION
Designing with people
WOMEN WELLNESS CENTRE

SITE:
Mandvi ni pol, Old city,
Ahmedabad.

BRIEF :
The studio was focused on the design making process through collective groups discussions, participation of individuals and the designer as creator of coproduction spaces.
This design Project started with discussions with various actors of the pol. To come up with a programme for site the communication and mapping were the tools through which we had our impliment on our design ideas.
After identifying spatial and programmatic requirments for design we had certain intense group discussions with Pol people as they were also part of the design process.



The location of the least near by Hospitals and NGO's from the Mandvi pol. which shows the necessity for women's health care

PROGRAMMATIC UNDERSTANDING :



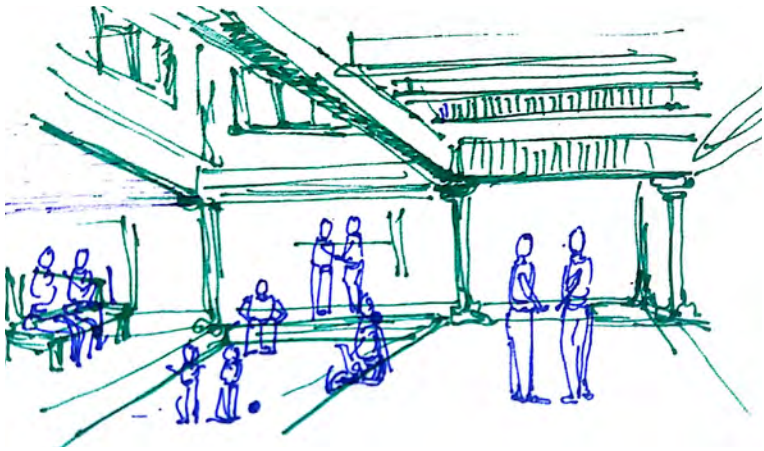
A place where kid can learn new abilities.



To conduct workshops for youngster's self development



A small creche and small learning centre for small kids, it would be helpful for working women.



A place for people to discuss certain issues through different counsellings.

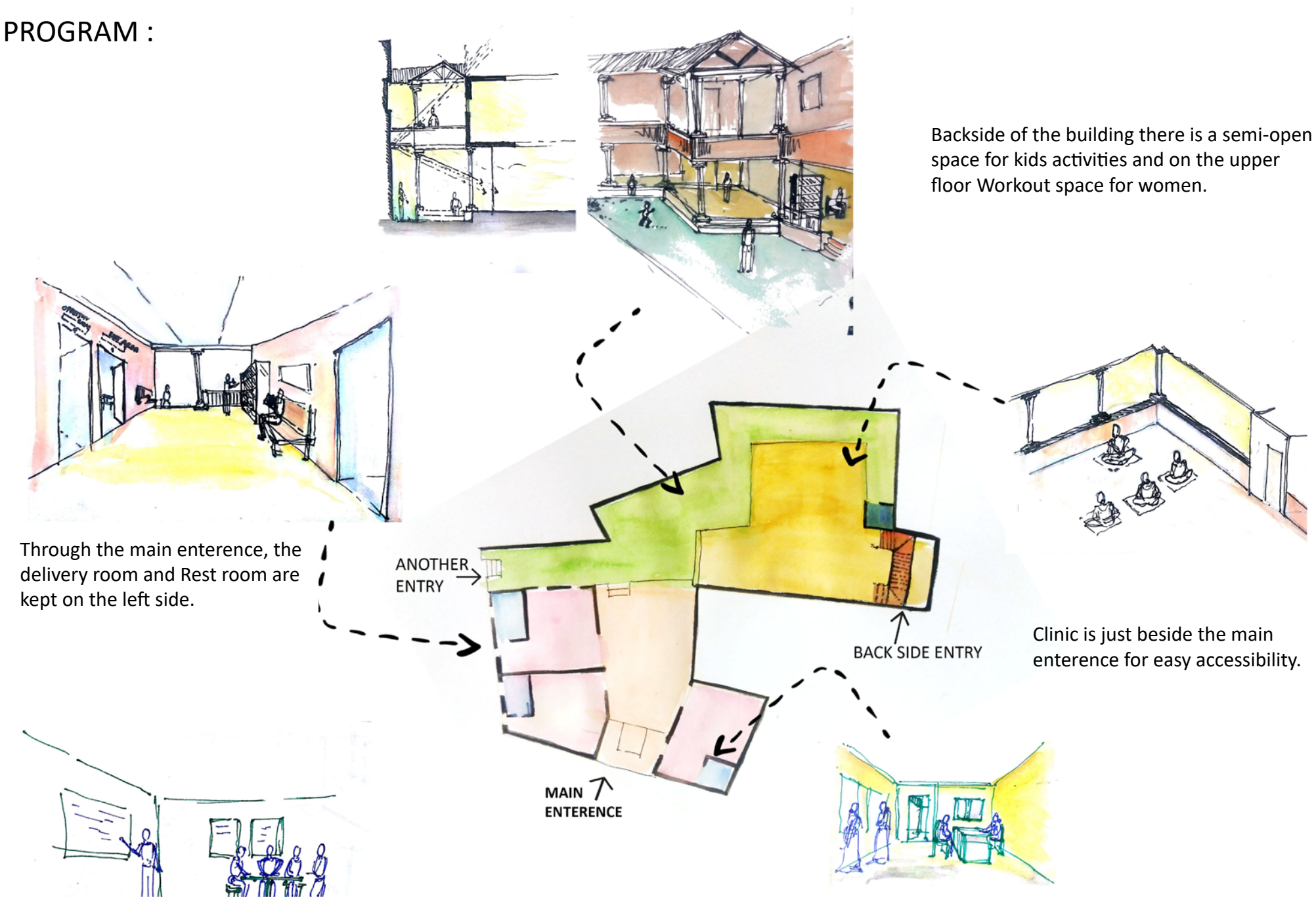


And also they could get guidance under experienced people for their future plans



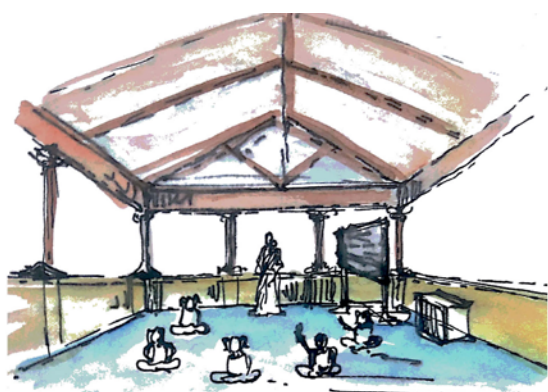
A gathering place for women where they could get proper guidance on their health

PROGRAM :

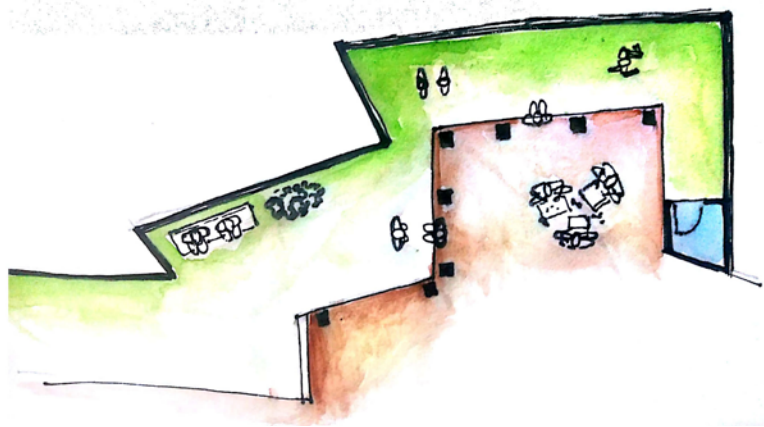


KEY SPATIAL CONCEPTS

The whole new program of Recreational place for Women's health can have so many different qualities. Women of all age groups can learn and guide each other about their Emotional and Physical health.



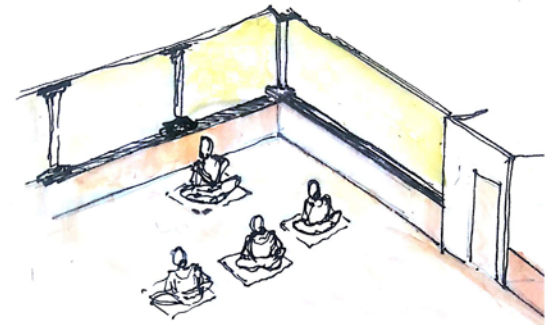
Back side of the main activity area.



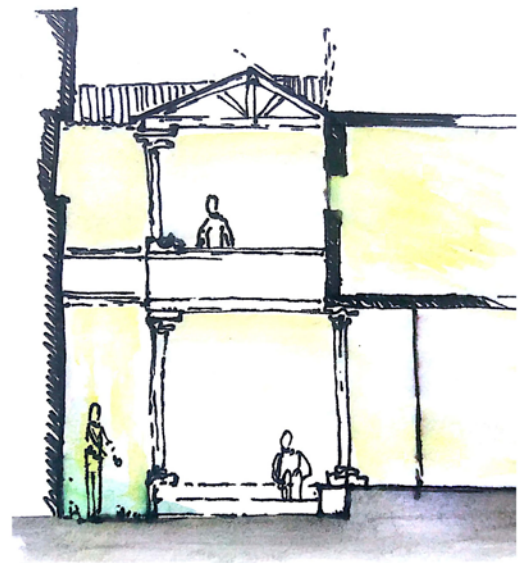
Open spaces around the building will conduct many random encounters and enough space for kids to play.

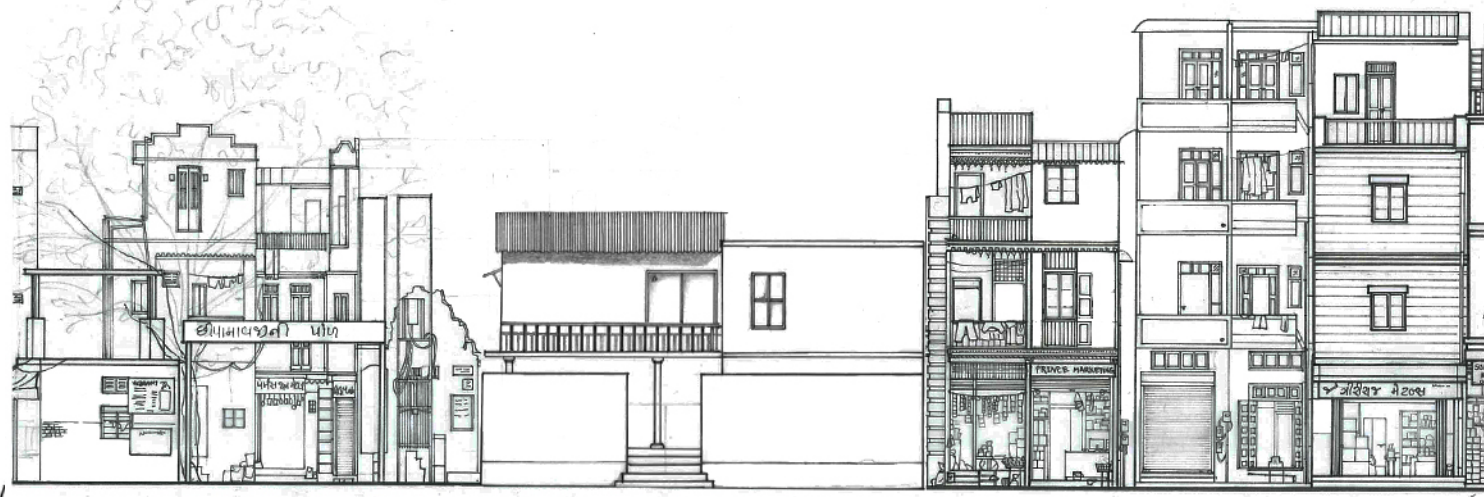


A small clinic for Normal check ups.

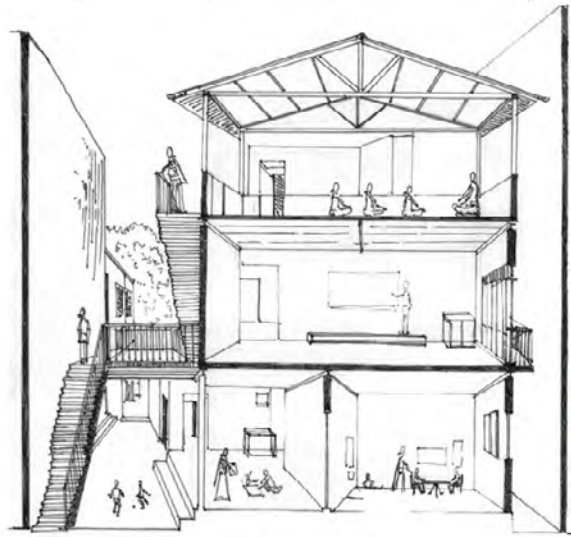


Workout space for Women's Physical and Emotional health.

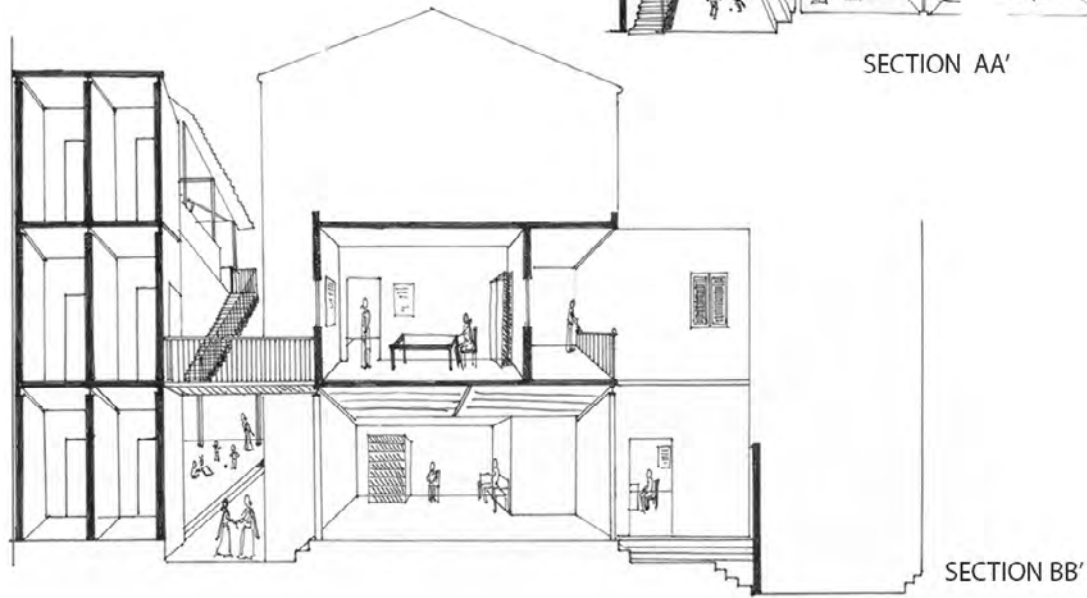




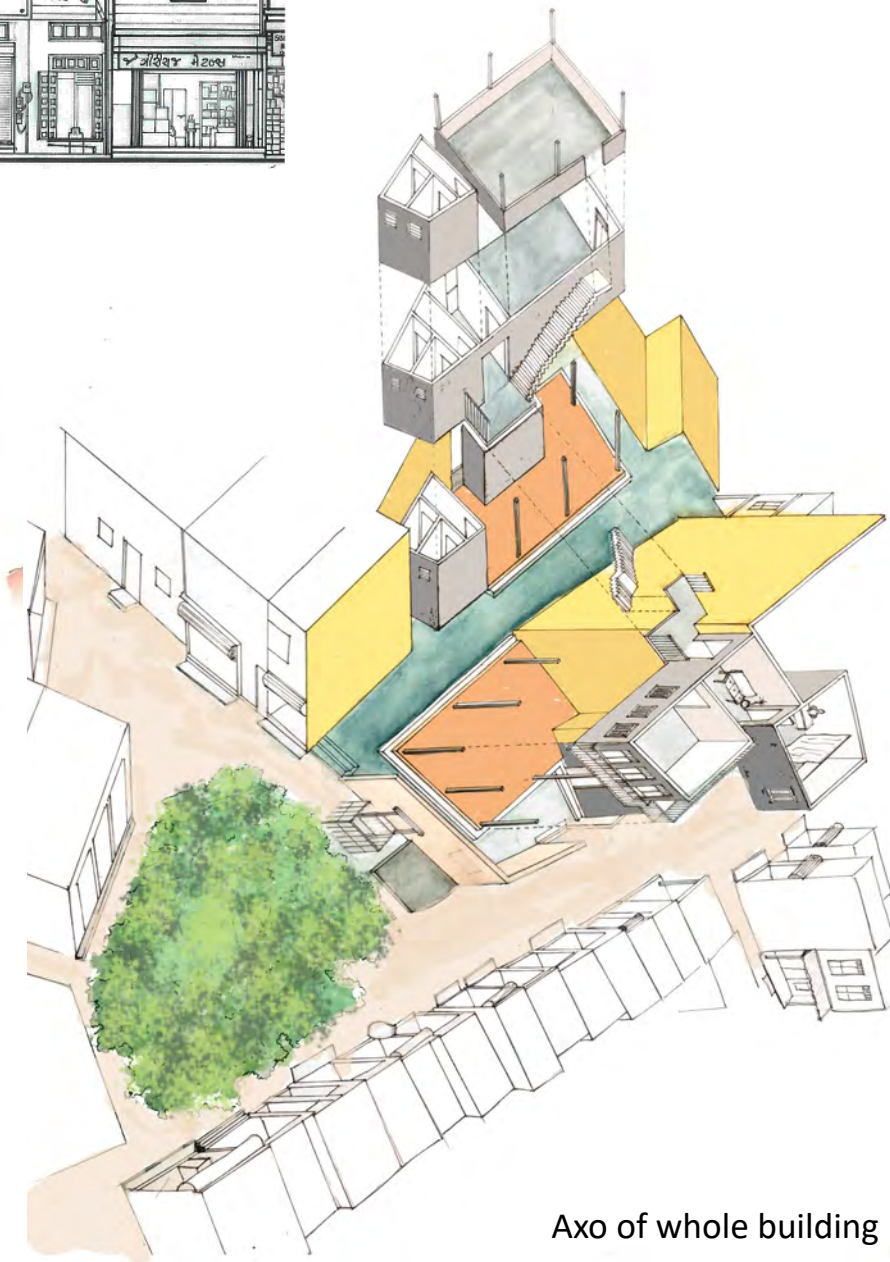
FRONT ELEVATION



SECTION AA'



SECTION BB'



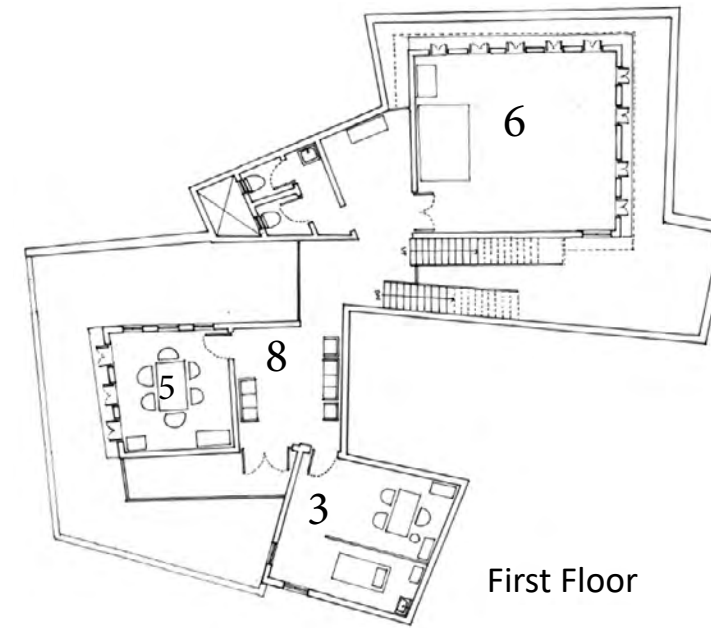
Axo of whole building



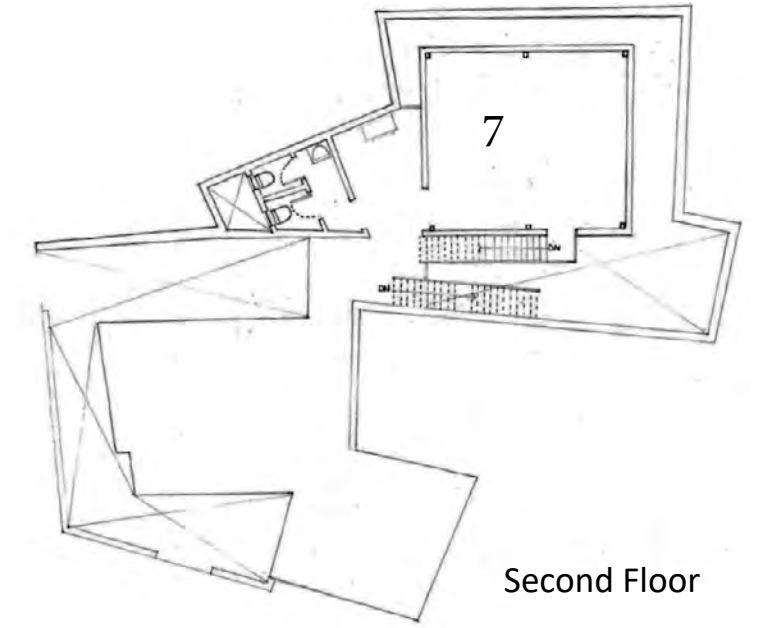
Ground Floor

This program was based on women wellness and the concept was more focused on women's emotional health rather than physical health. The motto of this programme is to have a place where women can involve themselves in different activities with great approach of other organizations for their Wellness and for their kids also where they can grow individually.

1. ACTIVITY AREA
2. KIDS CHRECHE
3. CLINIC
4. COUNSILING ROOM
5. OFFICE
6. SEMMINAR ROOM
7. WORK OUT SPACE
8. WAITING AREA
9. OPEN SPACE



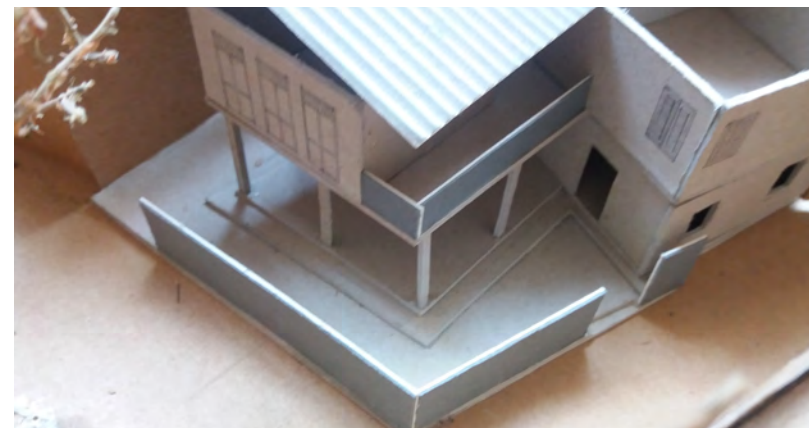
First Floor



Second Floor



Ariel veiw of the building



Looking inwards this otala



Side elevation



Semi Open space



Back Side of building

SEMESTER 5

PROGRAMME :
STUDIO A TO O
(Working Drawings)

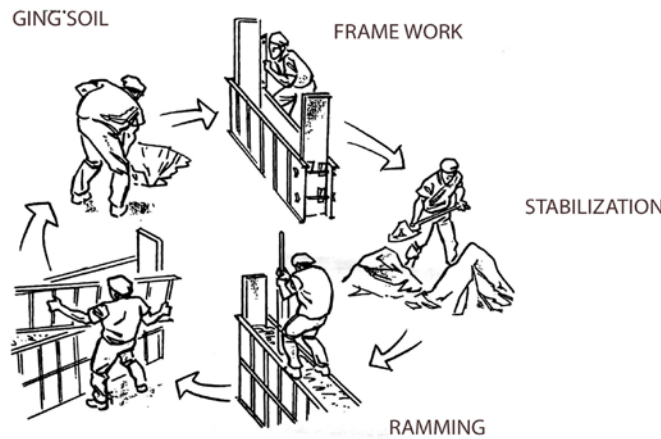
SITE:
Kalai, Vapi, Gujarat

BRIEF :
This studio aims at bridging the gap between academics and construction practices. Before design exercise we had to do material studies and few on going construction site interaction with different experts so that we can apply their knowledge in our design.

My own weekend house at the edge of the kalay resort was facing direct seashore and on the other side a beautiful pond. The whole idea of keeping the weekend house was major motto so that one can feel the direct connection to the nature.

After studying Rammed earth walls i decided to explore more about earth construction while designing and on site interaction took bigger effort to bring this up together. Beside that 1:1 joinery of our own design made us work according to the other person who played role of artisans.

MATERIAL STUDY :



RAMMED EARTH CONSTRUCTION SEQUENCE :

- 1. SOIL IDENTIFICATION : It is very necessary to know what kind of soil we are going to use for consruction.
- 2. SOIL TESTING : Usually one should prefer to have drop test of soil to know the plasticity if soil.
- 3 SOIL MIXING : 50 TO 70% GRAVEL SAND
15 TO 30% SILT
5 TO 15% CLAY
5 TO 8% CEMENT
2 TO 5% WATER (Includes sand with ssufficient clay and silt.)

While mixing the soil some ideal amount of water will be vary from one soil Mixture to another but the soil should not be too wet or too dry. It can be tested by drop test again. After that cement as a stabilizer should be added.

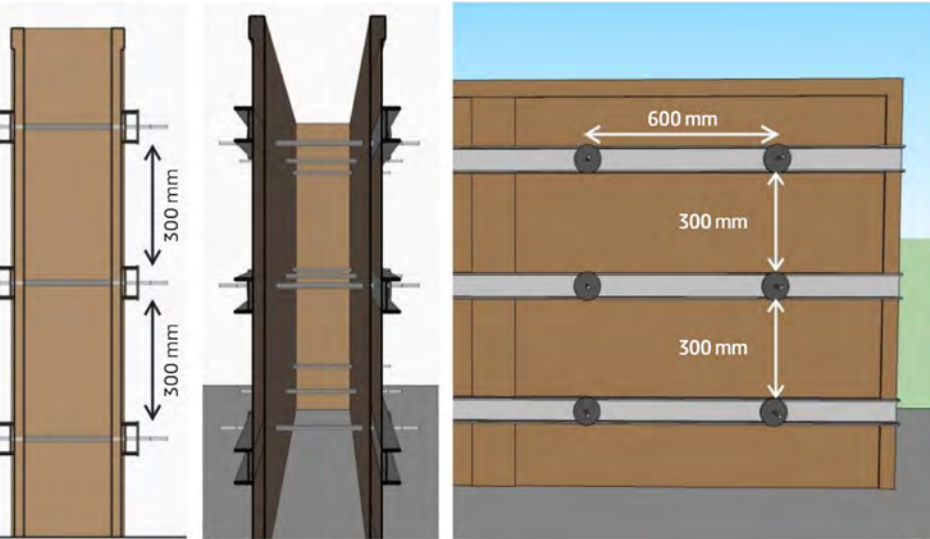
- 4. SIRE WALL FOUNDATION :
Sire wall is basically structural insulated rammed earth wall where internal reinforcement is a method of stabilizing the rammed earth wall against hoerizontal forces bt using vertical rods of bamboo, wood or steel before ramming period. These vertical elements are fixed to the foundation below and to the ring beam above.



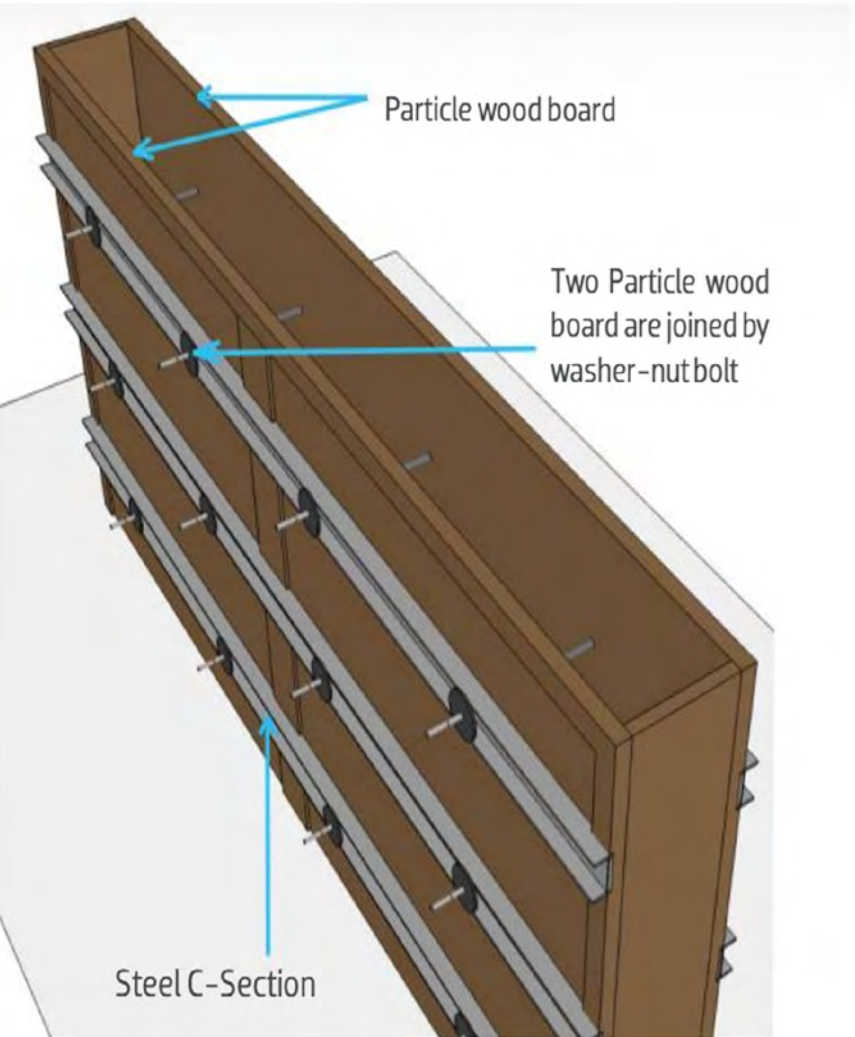
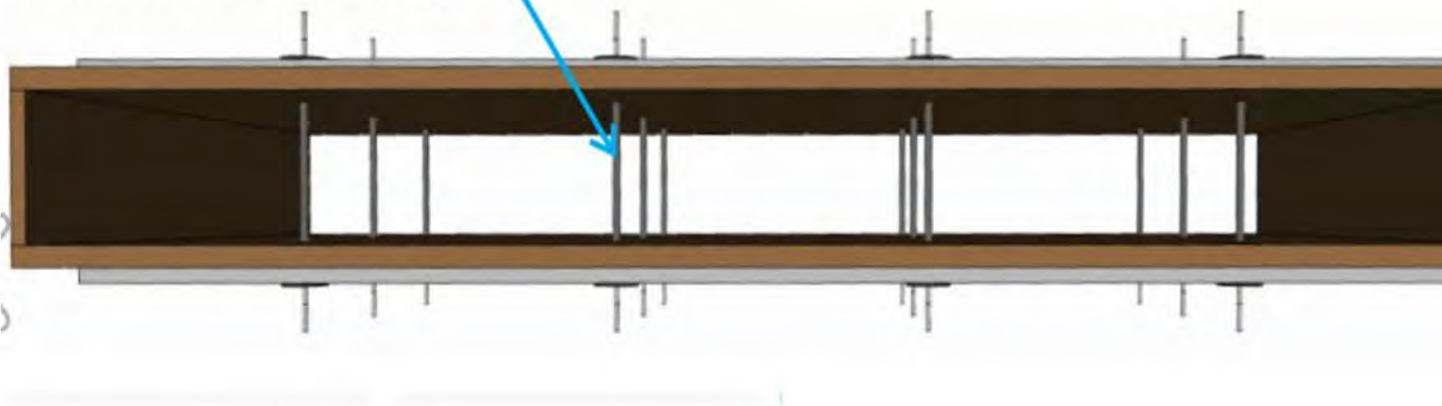
5. PREPAIRING FORMORK

If we're using any textured or rough wood for formwork, then we have to apply oil on the inner surface so that the mixture won't stuck to the surface. Instead of using steel, we can also use wood to make this fromwork.

DIEMENSIONS OF THE FORMWORK



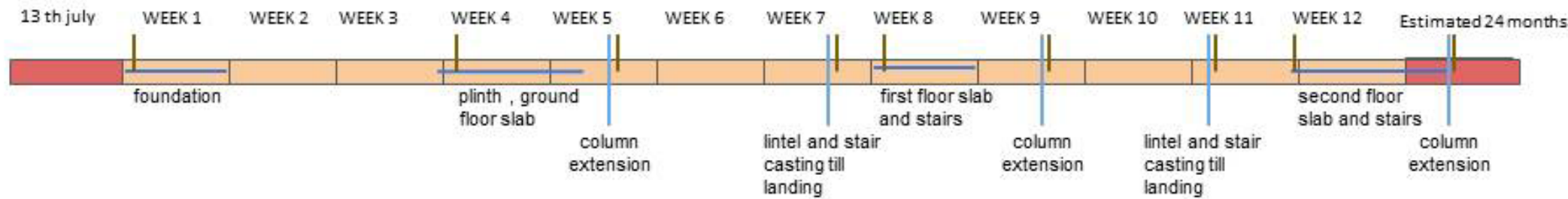
Conduits are provided, so after removing the formwork, wall doesn't get damage because of bolts. Even because of these conduits, we can also and maintain the distance between the boards and that won't become bulgy.



SITE OBSERVATIONS :

SALIA WORK

Salia work and Wood work



- Salia work
- Wood work

- People are involved in column, column cubes, tie beams, lintels staircase, beams, slab.
- Approx. 3 people work in groups
- They get special drawings only showing reinforcement for different elements in the design.

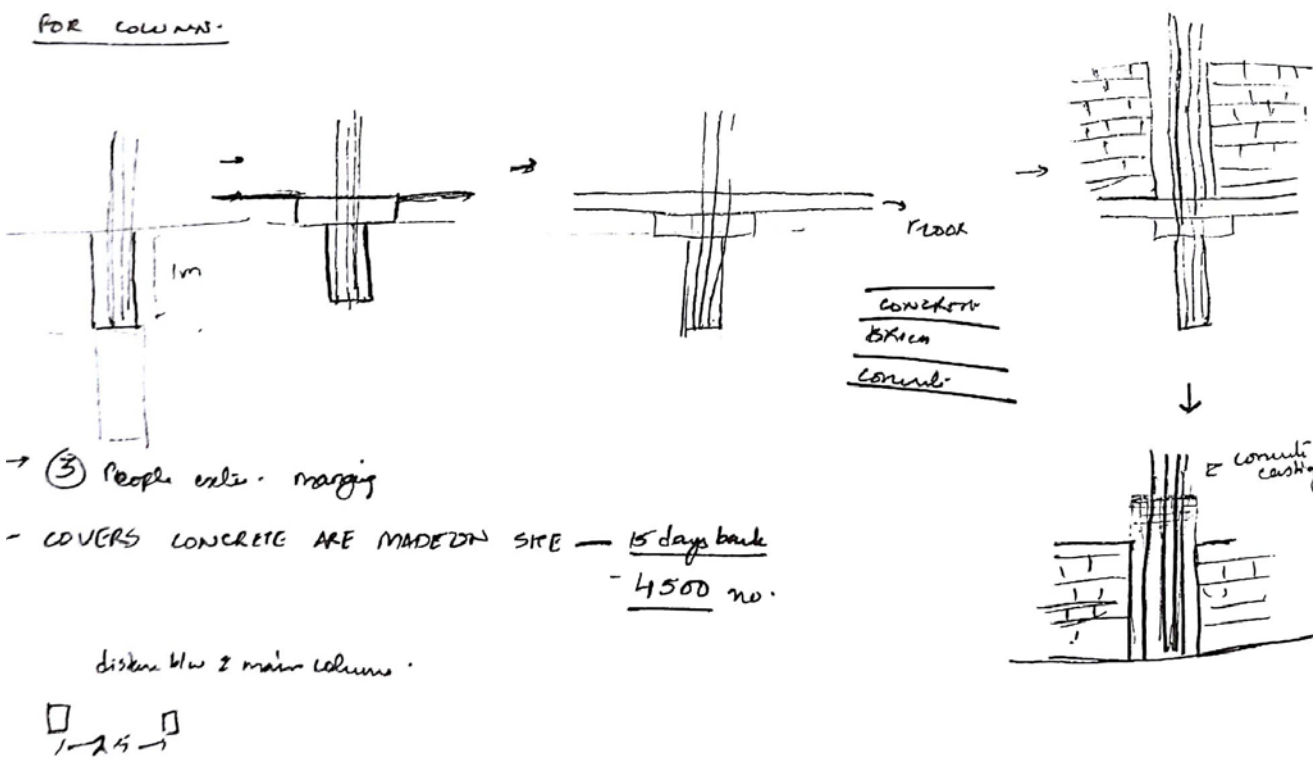
Tools used:



FOR HOLDING BRIDGING WIRE

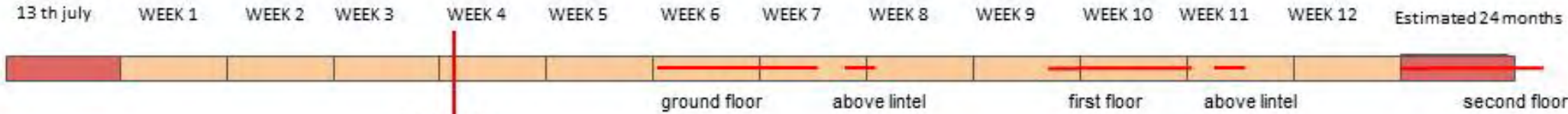


ON SITE SKETCHES :



BRICK WORK

Brick work



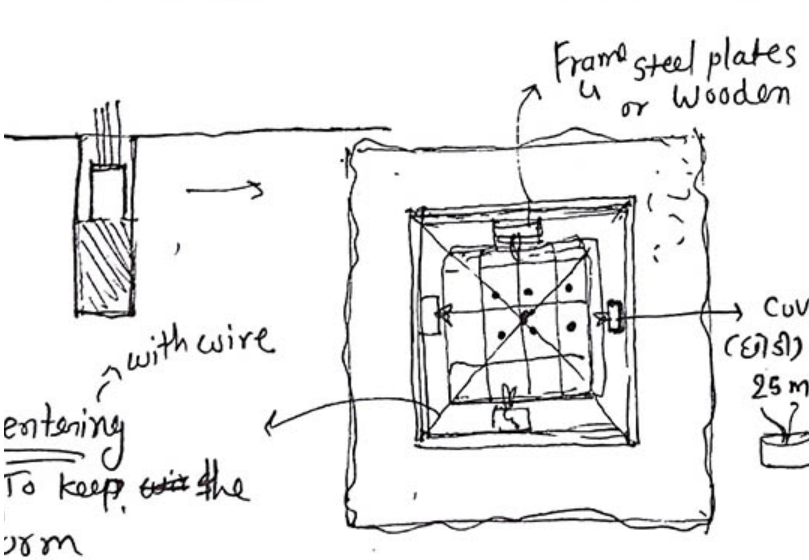
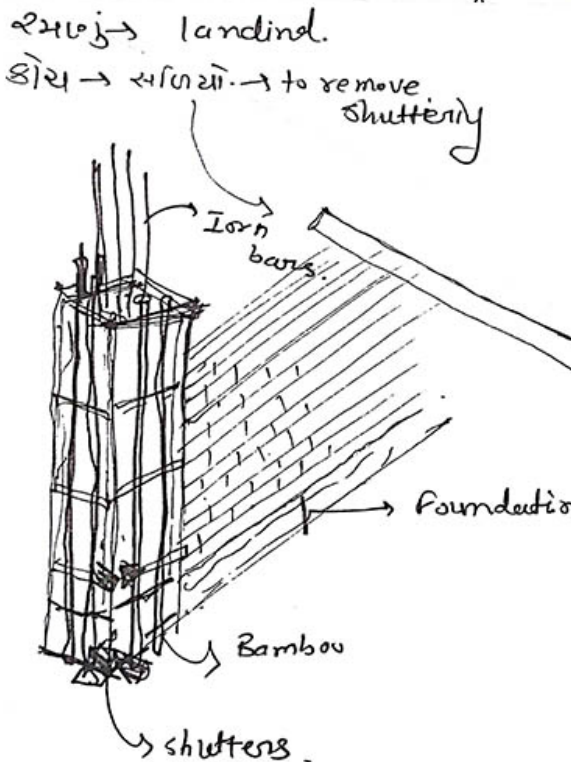
Brick work

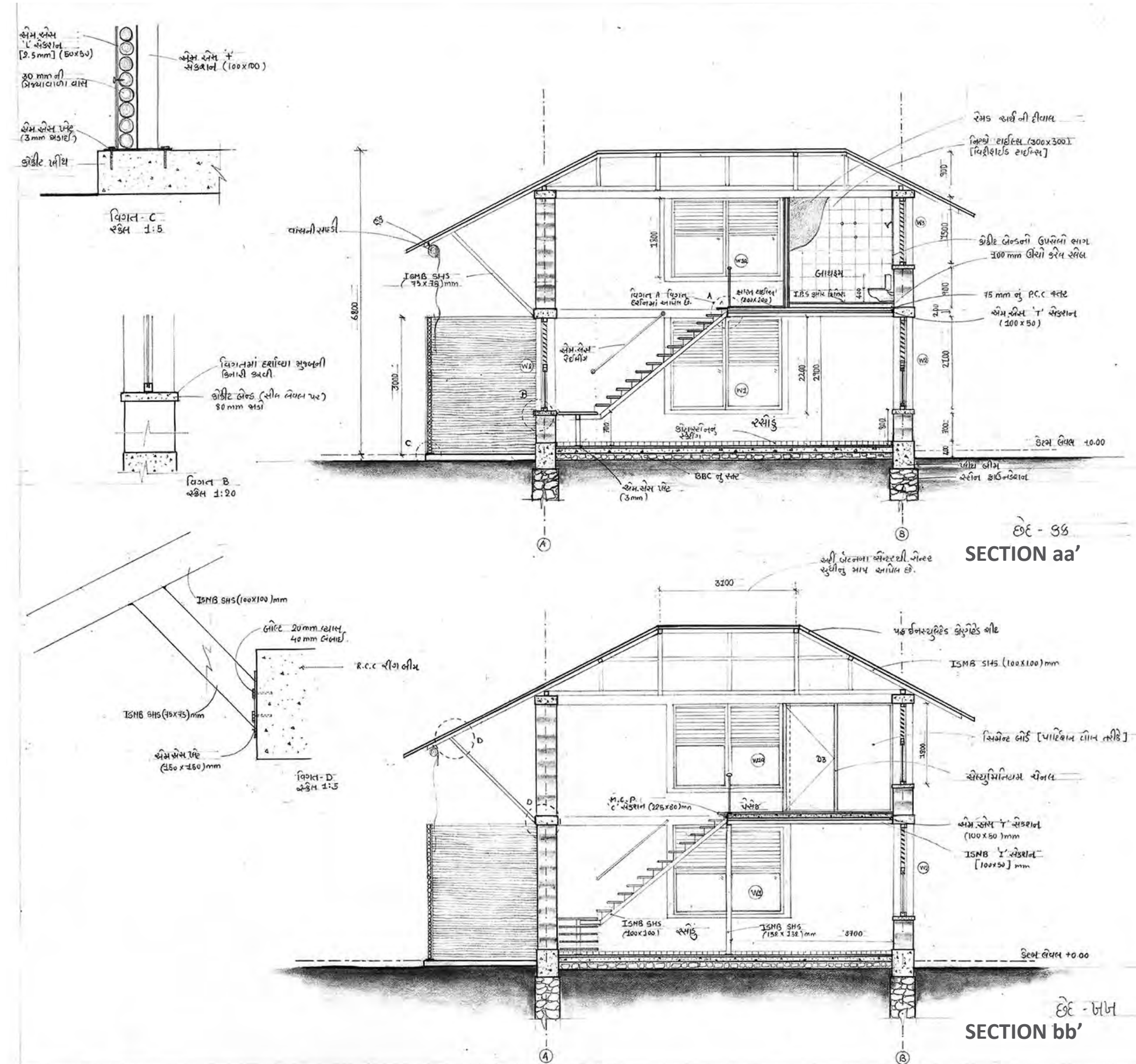
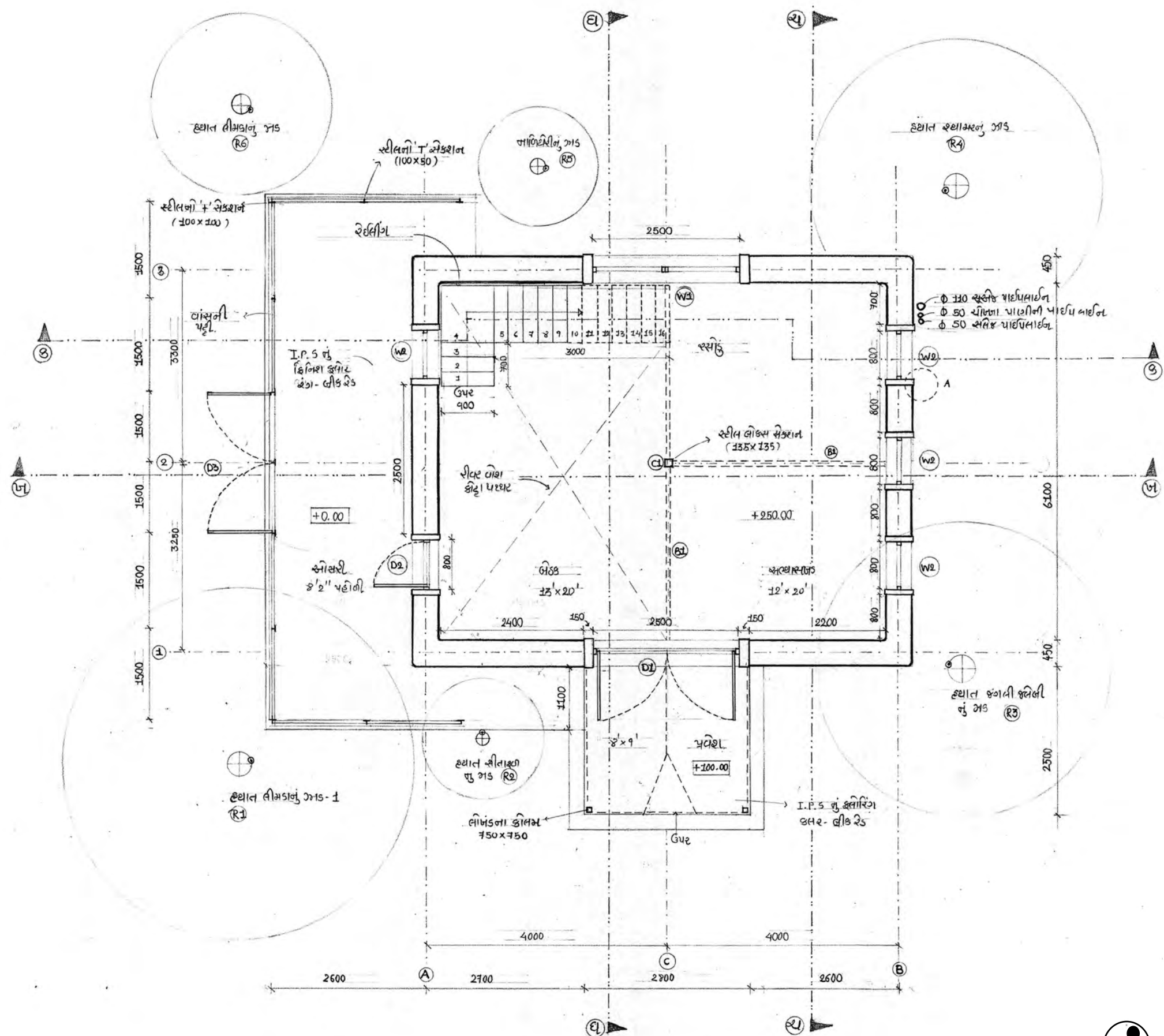


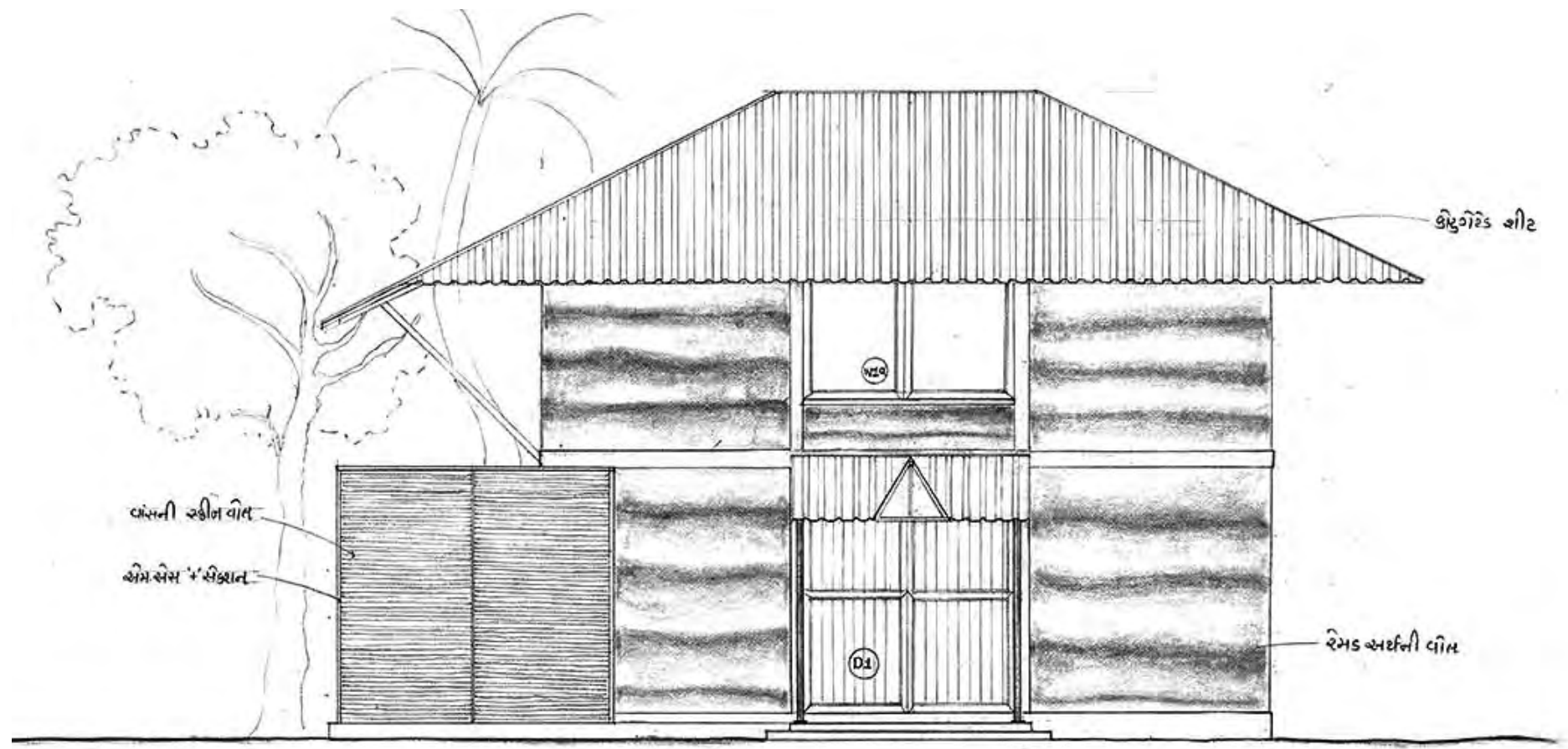
Storage of bricks is according to convenience of carrying them to the place where the wall is being built. Sometimes they keep inside the site or outside the wall as well.



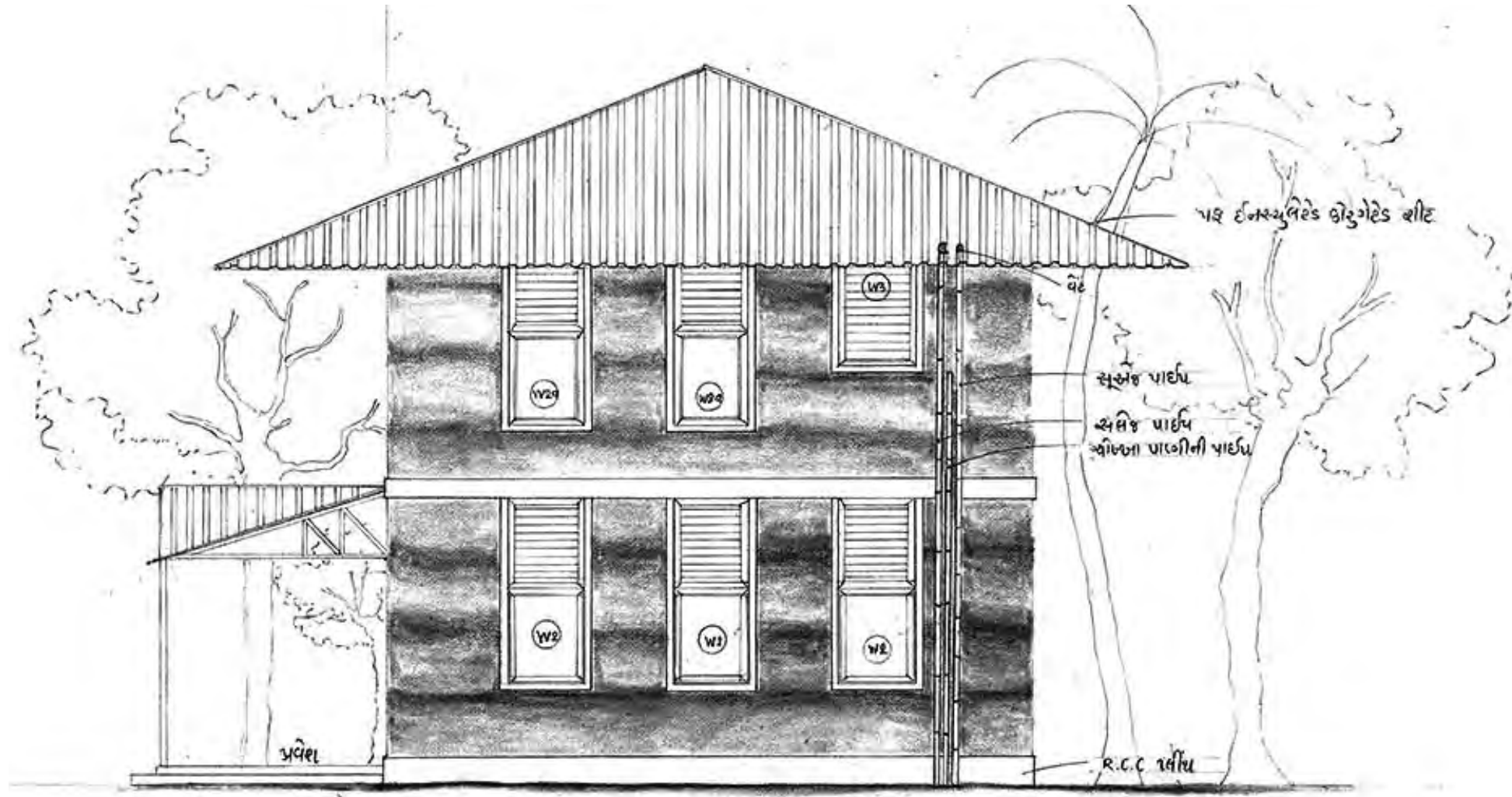
Making of the Brick Wall for the first floor.



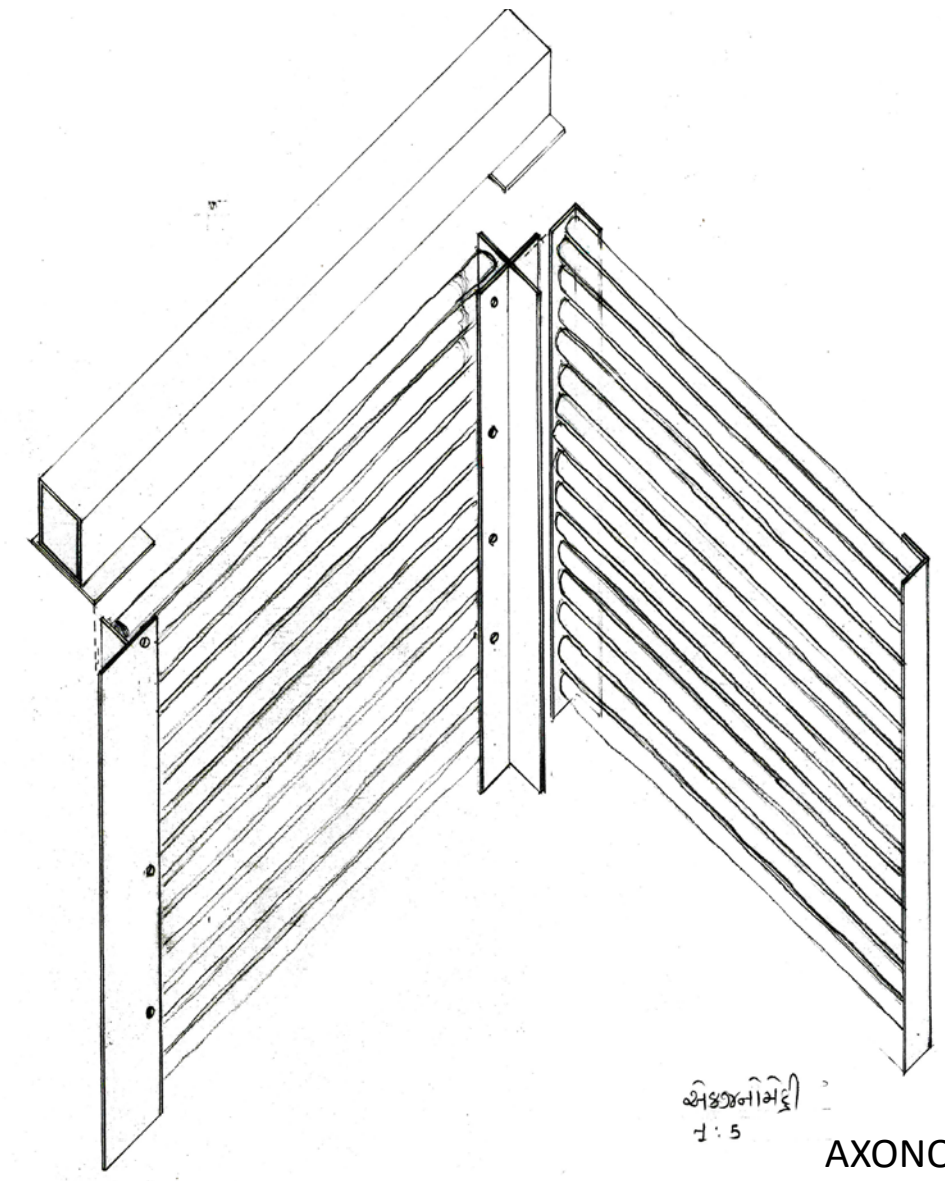
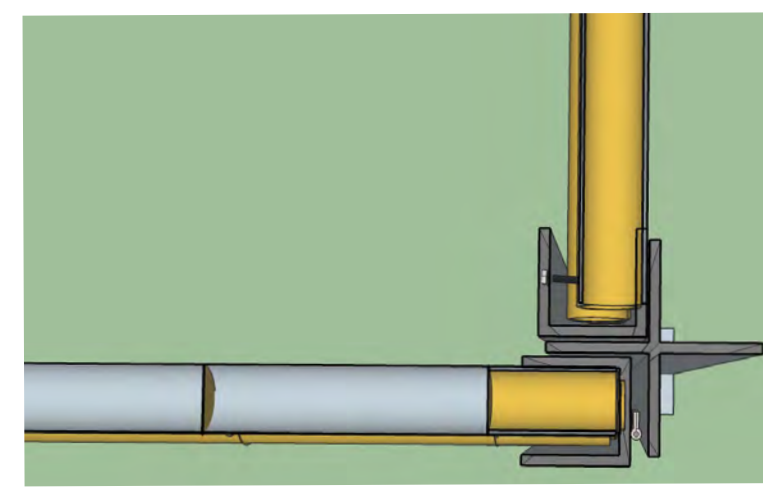
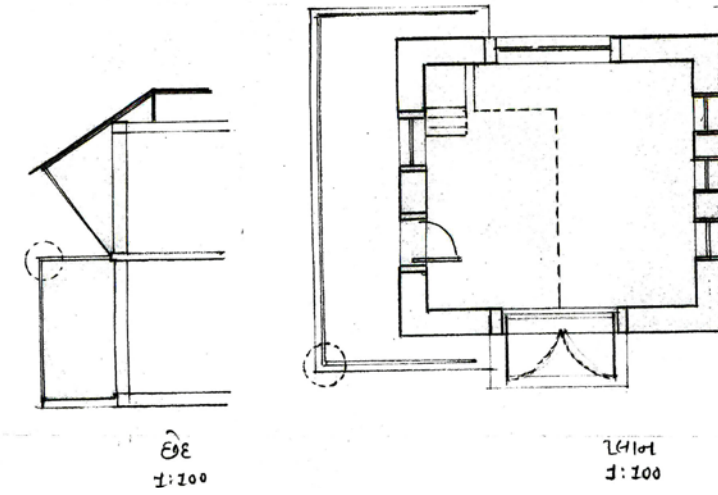




SOUTH EAST ELEVATION



NORTH EAST ELEVATION



AXONOMETRY



SEMESTER 6

PROGRAM :
MAKING LIVING PLACES

SITE :
PALODIYA VILLAGE, AHMEDABAD

BRIEF:
Reflecting upon how we feel about our surroundings and how one wants to be in living place is a core ideology of this studio. Before this main project, we have been through some major exercises which were more focused on how we observe the environment and how did we describe those places which has more life around them! So here we have selected the edge of the lake which has so much potential to create more living spaces in it. our site is just stucked with edge. So we came up with the concept of vadi as a gathering place where people can sit, relax and celebrate small functions and festivals. It connects the village, its people and the lake.



EXERSICE : 1

Our first exercise was about to describe a place through black and white photographs in order to identify the qualities that make the place more alive. During this exercise we had to observe the people, objects, natural and built elements at Palodiya village and it's surroundings.
Here the emotional qualities of the particular place is being described by six different lenses which are love, nostalgia,tragedy, comedy, boredom, and irony.



COMEDY



LOVE



IRONY



TRAGEDY



NOSTALGIA



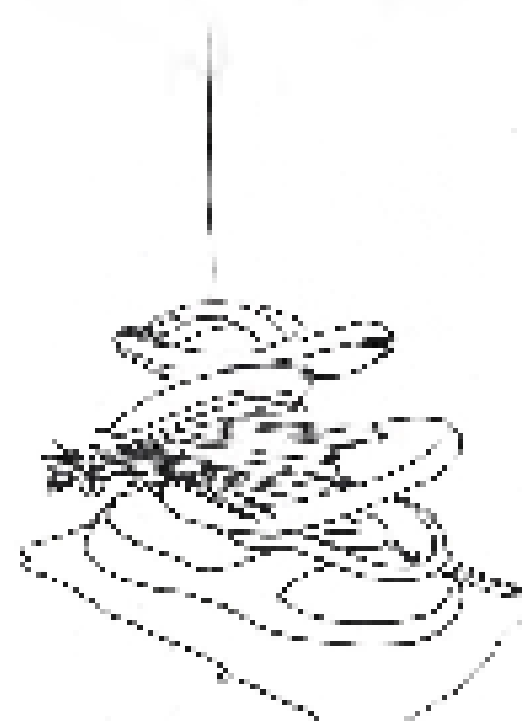
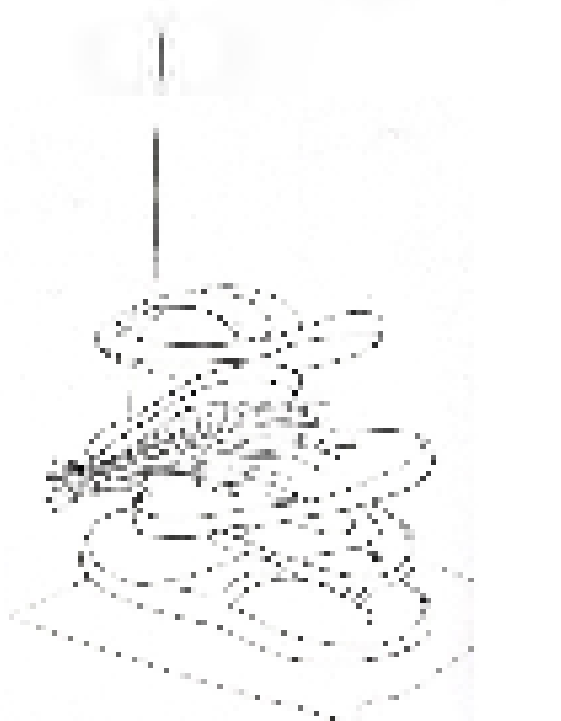
BOREDOM

EXERSICE : 2 TRACING THE OUT LINES

In this exercise we had to pick up the photos from each lenses and trace the basic outlines of the frame by Keeping it's own emotion in the mind.Through this one can understad the nature of lines in different lenses.

TRANSFORMATION OF LENSES:

COMEDY TO LOVE:



EXERSICE : 2A

IN THIS EXERCISE WE HAD TO DESCRIBE THE PLACE VERBALLY BY OBSERVING THE SURROUNDING ENVIRONMENT OF PALLODIYA VILLAGE THROUGH WHAT WE FEEL SMELL OR HEAR.

TOUCH

SMOOTH : A SMOOTH SURFACE OF THE KOTA STONE OTALA

COARSE :TOUCH OF RAW STRAWS KEPT ALONG WITH THE WALL.

NOSTALGIC : A ROUGH BROKEN WALL OF AN OLD HOUSE

DUMP : A LITTLE WET GRASS ON EDGES OF THE SMALL POUND

BRISTLE : SUPER DRY MUD WALLS

BUMPY : UNPLASTERED FLOOR OF SMALL COURTYARD

SMELL AND TASTE

BITTER : SMELL OF BITTLE NUT

EARTHY : WET BRICKS WERE PLACED AT ONE CORNER OF THE NARROW STREET

SUGARY : TASTE OF SWEET CHAI

ROTTEN : A SMAELL OF WASTE FOOD AT ONE CORNER OF OTALA

RAW : SMELL OF TYPICAL GROSSARY SHOP

STALE :PILE OF DRY STRAW WERE KEPT ON ONE SMALL COW SHED

SCENTED: PLEASENT SMELL OF DHOOP COMING FROM SMALL SHRINE.

SOUND

JANGLING : A LOUD NOISE COMING FROM A MOTOR GARAGE

COUGHING : AN OLD MAN WAS COUGHING OUT LOUD ON THE THE MAIN ROAD.

SOOTHING : A PLEASENT SOUND OF LADIES ANKLETS

GIGGLING : SMALL SCHOOL GIRLS CHITCHATTING ON THE DOOR STEPS

GURGLE : OVER FLOWI NG WATER FROM PLASTI C BUCKET AT CHOWKADI

TINKLE :BELT ON THE COW’S NECK WITH SMALL BEL

LIVING PROCESS:

IDENTIFYING AND DISCOVERING SUCH PROCESSES THAT CREATE LIVING PLACES. FINDING THE QUALITY OF WHOLENESS AT PAL-
GOTA VILLAGE AND SURROUNDING THROUGH THE PERSONAL FEELING OF 'THE MIRROR OF THE SELF' AND 'SENSE OF BE-
LONGING'. THE DESCRIPTION OF SUCH PLACES IS SHOWN BY SKETCHES, PHOTOGRAPHS AND VERBAL DESCRIPTION.



A SKETCHED PLAN OF THE PALODIYA VILLAGE SHOWS THE MAIN CLUSTER ALONG WITH MAIN STREETS.

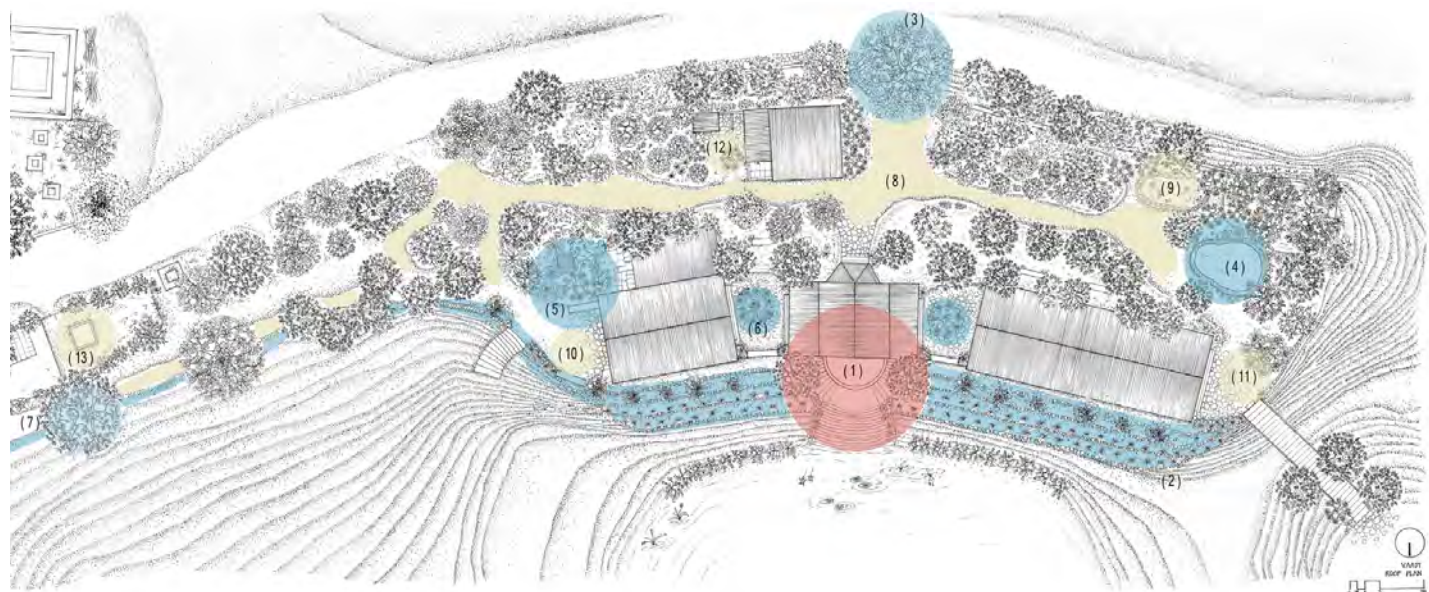


A TREE SHEDT FRUIT CALLED PILEO WHICH GROWS ON THE WOODS TREE. AN-
OTHER INTERESTING THING ABOUT THE TREE IS ITS FORM, THAT WHY IT SPREADING
THE FOLIAGE AROUND ITSELF EVOKES THE FEELING OF WHOLENESS



A SILENT ISOLATED PLACE AT THE CORNER
OF THE LACONIA COVERED WITH THICK
BOUNDARY OF TREES AND COMPOUND
WALL.

By following Christopher Alexander's theory of Creating centres, which gives the whole new identity to the place We observe the site according to that and classified three types of centres on the site. After that we worked upon the each centres and tried to enhance it well. our site was located on the edge of the lake.



Primary center Secondary center Tertiary center

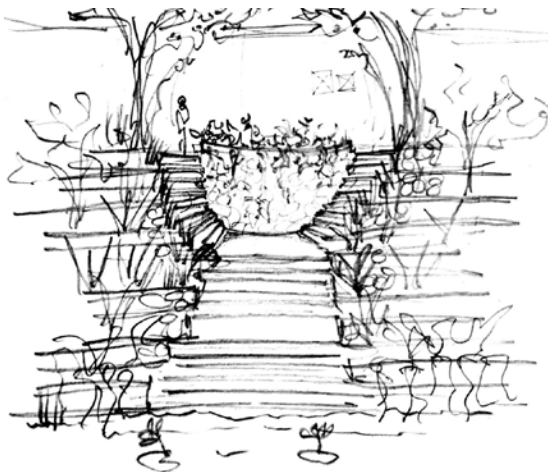
Development of the main centre with two Kesuda trees :



Space below two kesudo trees framing the lake



Connecting bund with lake by providing steps from the centre



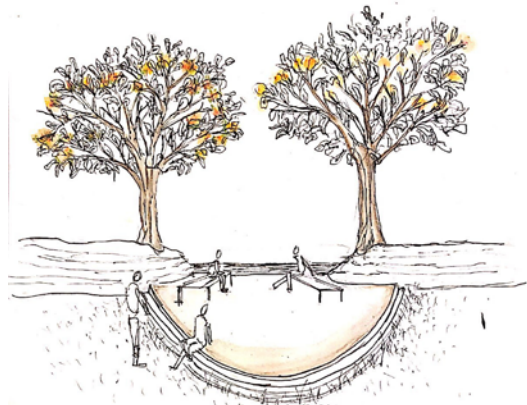
Projecting the semi-circle outwards towards the lake and creating a stone bastion.



Enhancing it further by creating a strong boundary around that centre through steps leading to lake



Enhancing the centre by creating boundary by raising it naturally and shading it with two neem tree

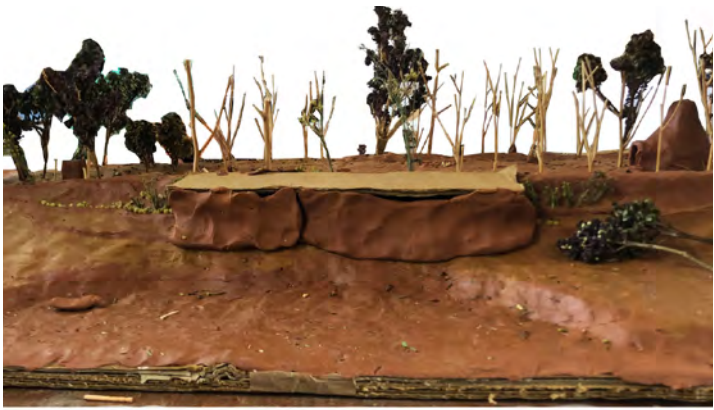


Creating a proper semi-circular stepped raised plinth around the kesudo trees

By working the model we actually went through the development of bund and edge of the lake.



Creating stone retaining terraces, with steps directly leading to the lake from kesudo tree centre.



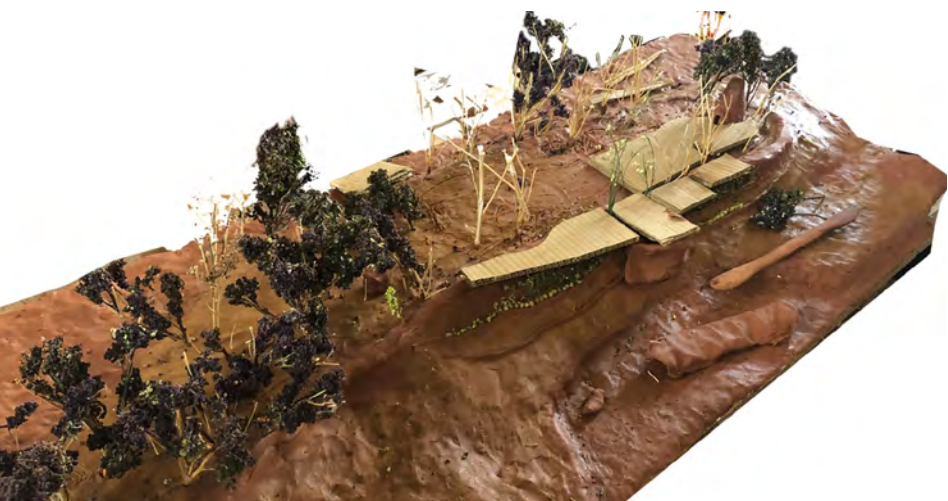
Creating an edge in front of kesudo tree, with a natural slope.



Using light thin column and segmental arches to make the pavillion feel light and visual connectiveness.



Designing of plinth with fixed bastion and extended bund



Plinth surrounding the temple connecting it with the pavillion and the main central part protruding from the edge towards the lake.



Using heavy column and arches to give a sense of comfort and enclosure.

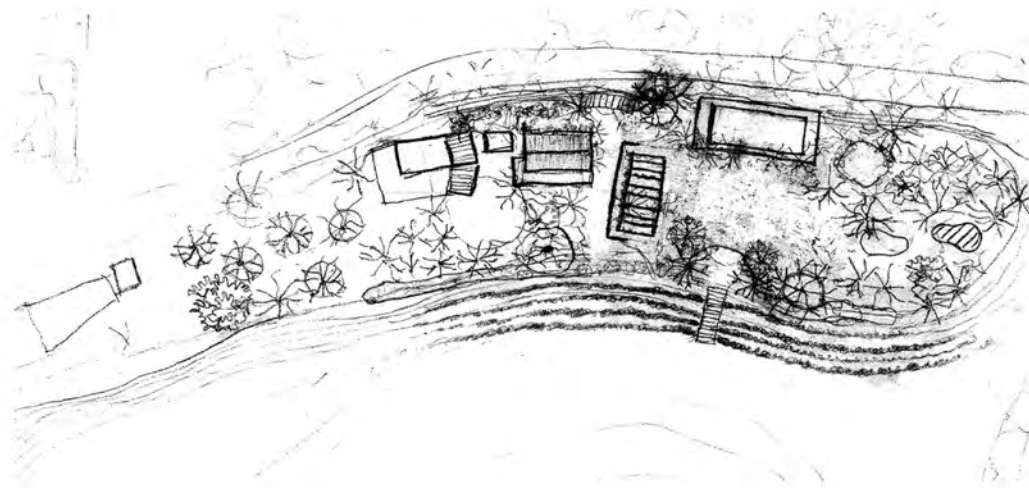


The space below the kesudo tree becomes a deck to the lake, providing shaded space below, in dry summer season.

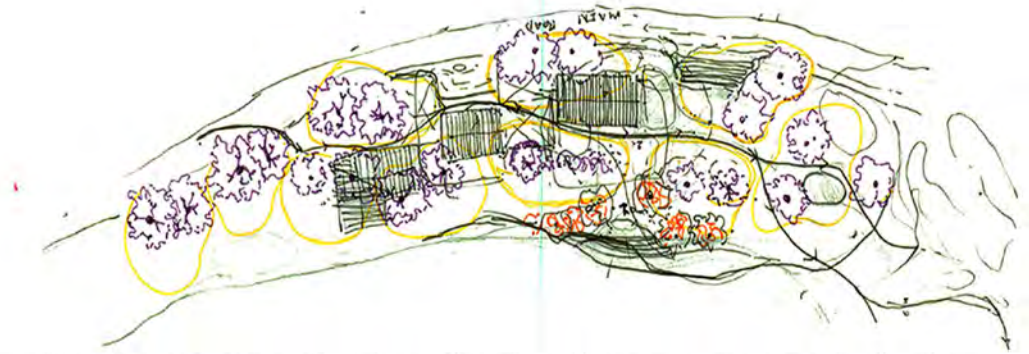


Plinth development in different levels with main central part as semi-circle which takes the shape of a bastion.

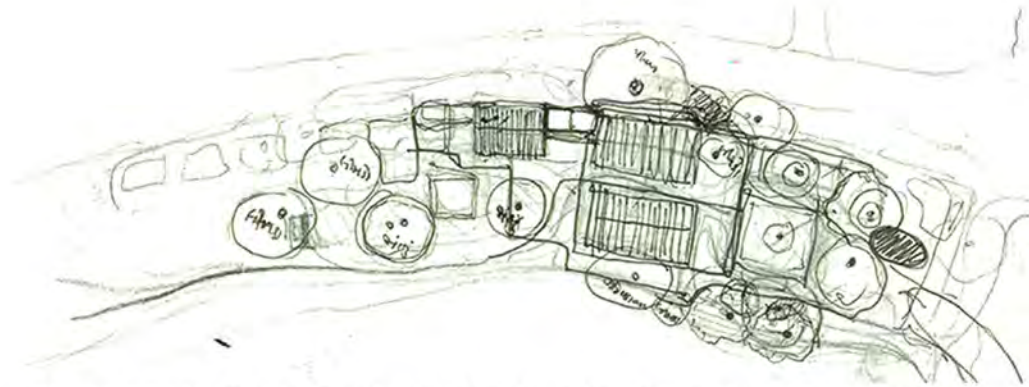
Organisation of spaces through the simultaneous designing in model, plans and sketches



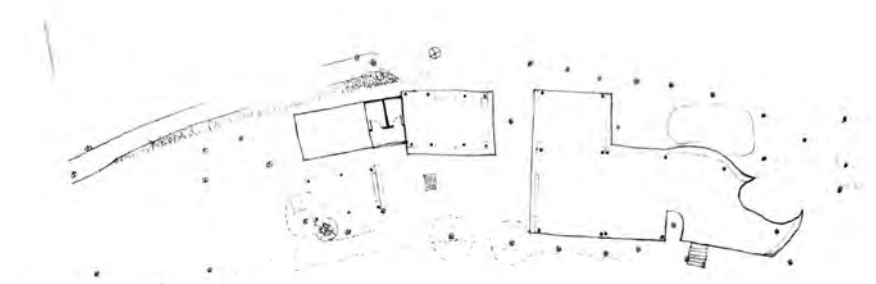
Organising of spaces through creating courts around kesudo tree bounded by pavilion and trellis. Trellis acts as a spillout for kitchen and creates secondary centre around peepal tree.



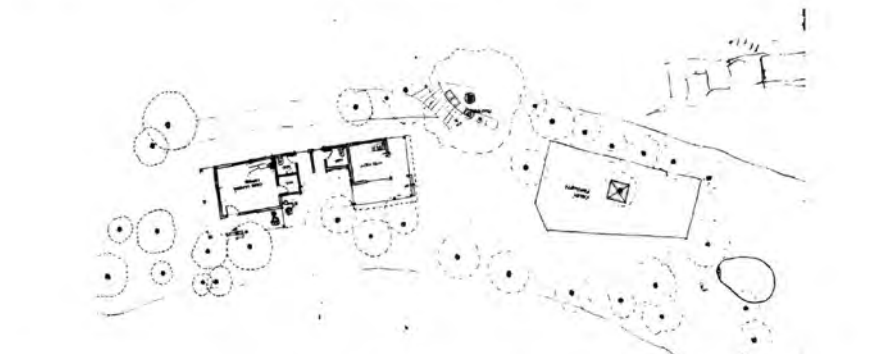
Organising groves on the edges of the bund leaving spaces in centre for the development of pavilions, which is broken in parts and creates spaces in between.



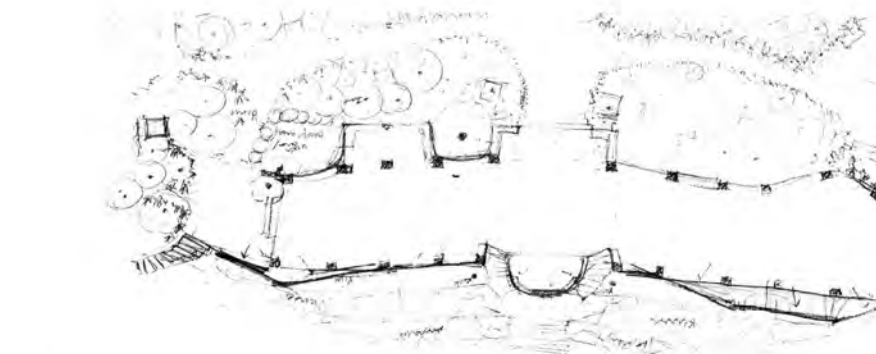
Organising pavilion in the centre of the bund breaking its linearity which creates a court with temple, kesudo tree and a pond with groves.



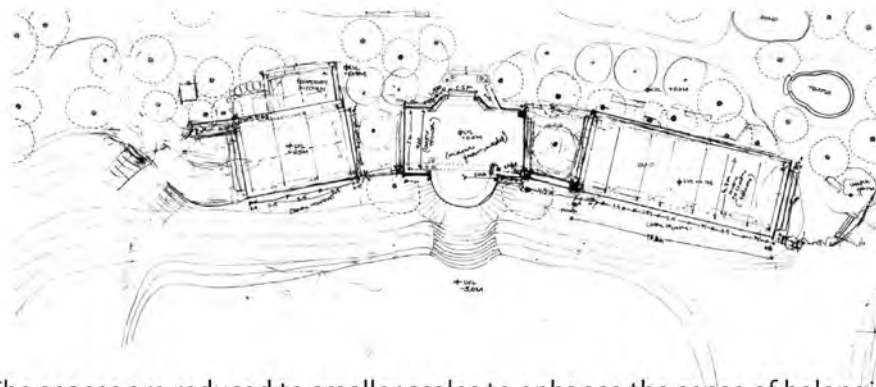
Organising vaadi enclosing the temple using organic shape enhancing the temple as a centre and creating a pavilion crowning the organic plinth.



Designing a courtyard around kesudo tree and existing neem tree with pavilion and the kitchen as builtspaces.



Placing vaadi pavilion on edge of bund by extending it by ten meters, creating a centre pavilion with large scales establishing identity to vaadi and framing lake with kesudo tree in front.



The spaces are reduced to smaller scales to enhance the sense of belonging. The courtyards between the pavilions are developed with a homely nature by planting champa tree.

Model Picture



THE LONGER PAVALLION



ANOTHER SIDE OF THE SECOND PAVILION



THE PATHWAY



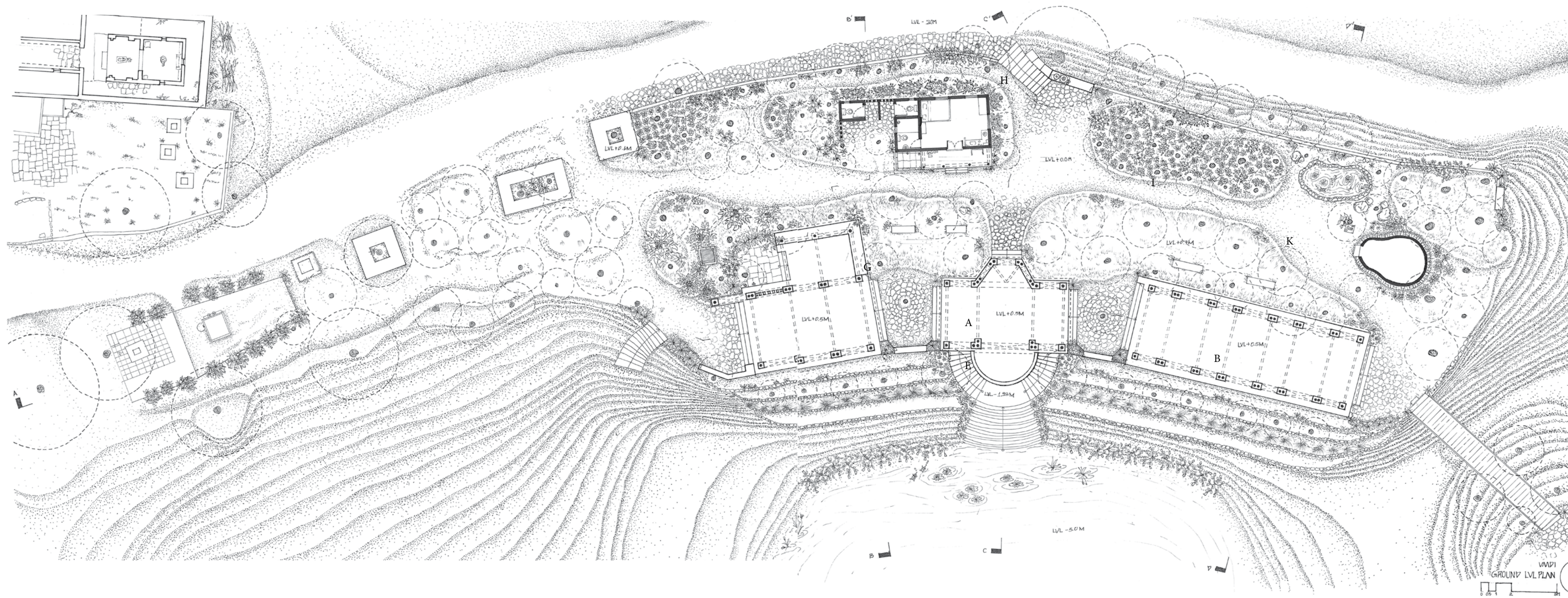
A COURTYARD BETWEEN MAIN PAVALLION AND SECOND PAVILION



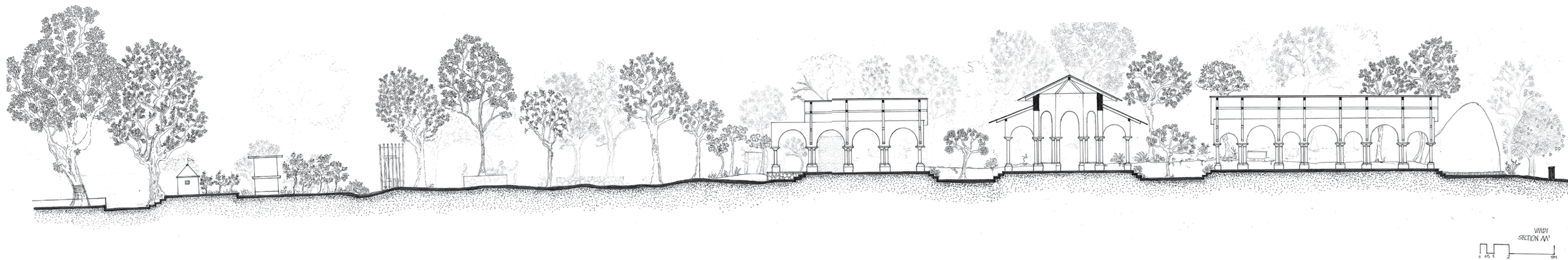
LOOKING ACROSS THE COURTYARD



PATHWAY LOOKING TOWARDS THE KITCHEN AND CHOWKADI



- A Central Pavilion
- B Main Pavillion
- C Kitchen Pavillion
- D Temporary Kitchen
- E Bastion
- F Lake entrance court
- G Courtyard between Pavillions
- H Peepal tree Entrance
- I Mound with food forest
- J Caretakers Room
- K Temple Court
- L Fruit Market
- M Toilet



SUMMER SCHOOL- 2019

PROGRAM :

Planning and design of confined masonry building in Earthquake prone area of India

SITE :

IIT GANDHINAGAR, AHMEDABAD

BRIEF:

During this course we got introduce to Confined masonry and it’s construction process. we also visited the IIT Gandhinagar campus for reference. Our main assignment was to work upon a project where we were given a different types of units and we had to modified them architecturally and with structral consultance also but on the basis of Confined Masonary Construction process. Beside that we had to make a report which includes load analysis, sesmic load analysis,ETAB model, cost estimation as this course was outlined towards Structural analysis.

CONFINED MASONRY FOR RESIDENTIAL CONSTRUCTION

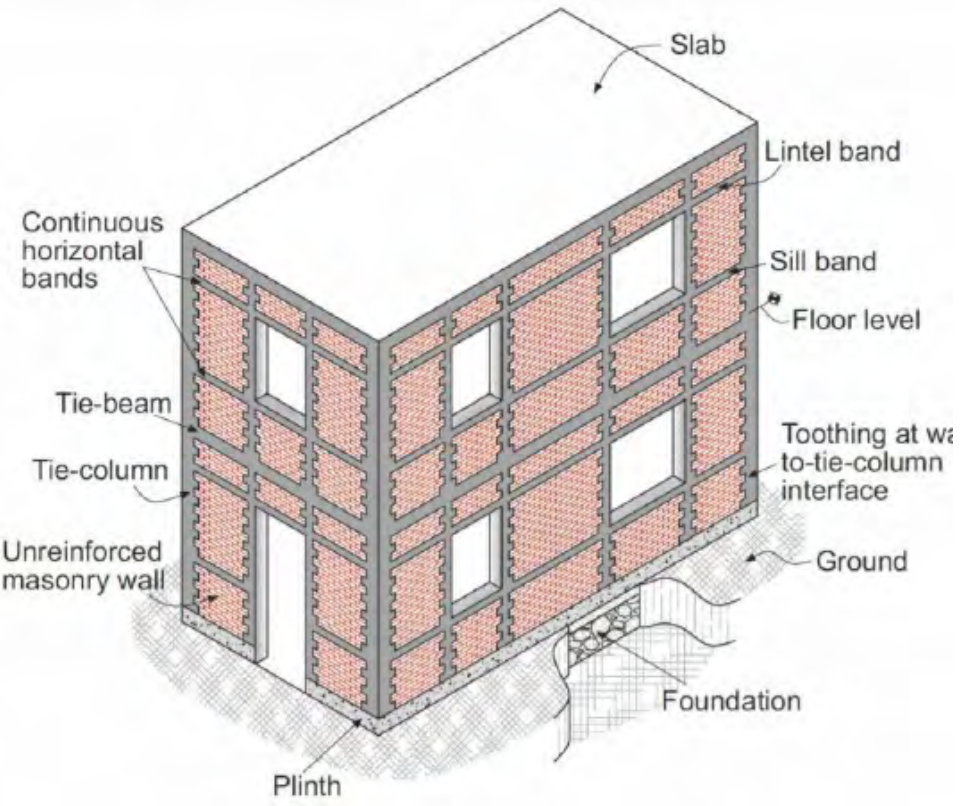
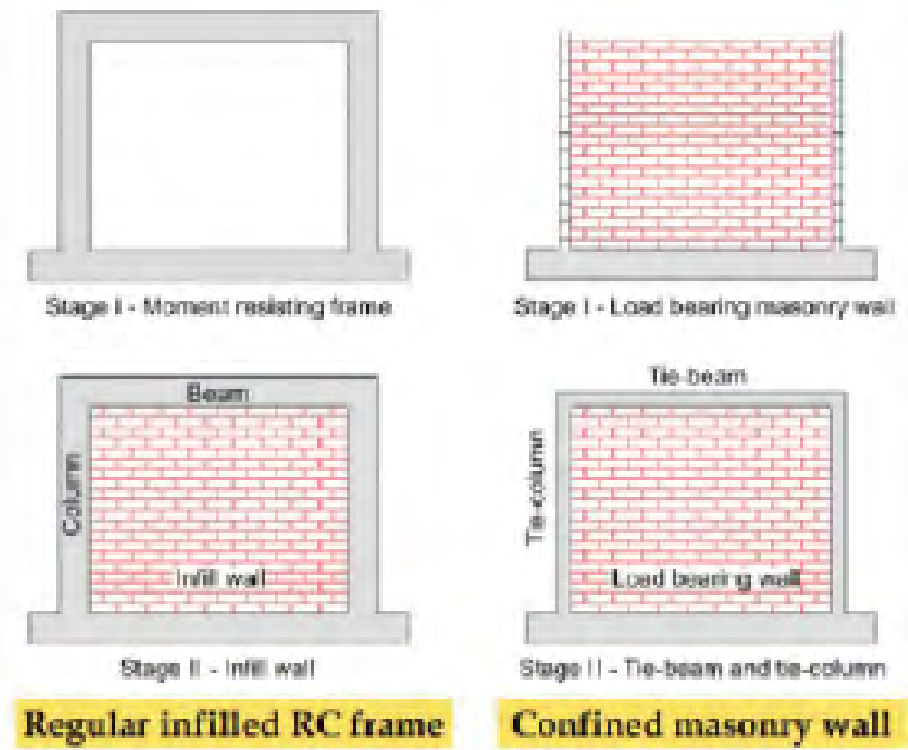
INTRODUCTION

Confin ed masonry is a technology which uses the same basic materials concrete and bricks that are found in unreinforced masonry construction and in RC frames with masonry infills, but with a different sequence. It is a system where wall panels are constructed first and later confined by casting vertical and horizontal RC elements known as tie-columns and tie-beams. Tie-columns should be provided at wall intersections, door and window openings, free ends of the walls, and at intermediate locations in long walls (usually at a maximum of 4 m spacing).

Key components of confined masonry:

- RC floor and roof slab
- RC plinth bands
- Confined Walls
- Foundation

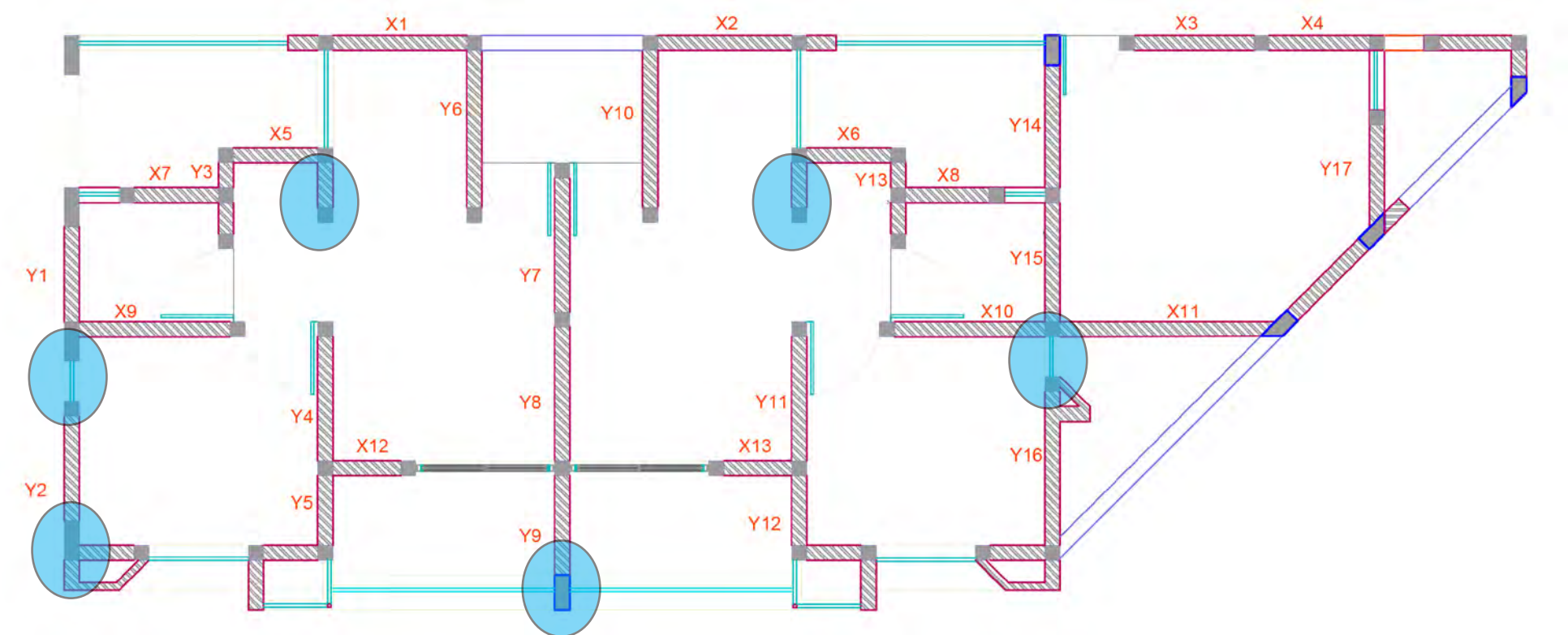
Confined masonry wall has more resisting capacity than regular infill RC walls. As youcan see the construction sequence of confine masonry where masonry walls and rc tiebeams and tie column act as one unit after construction they are load bearing walls act as a composite structure which helps themto sustain gravity and lateral loads more than RC frame structure.



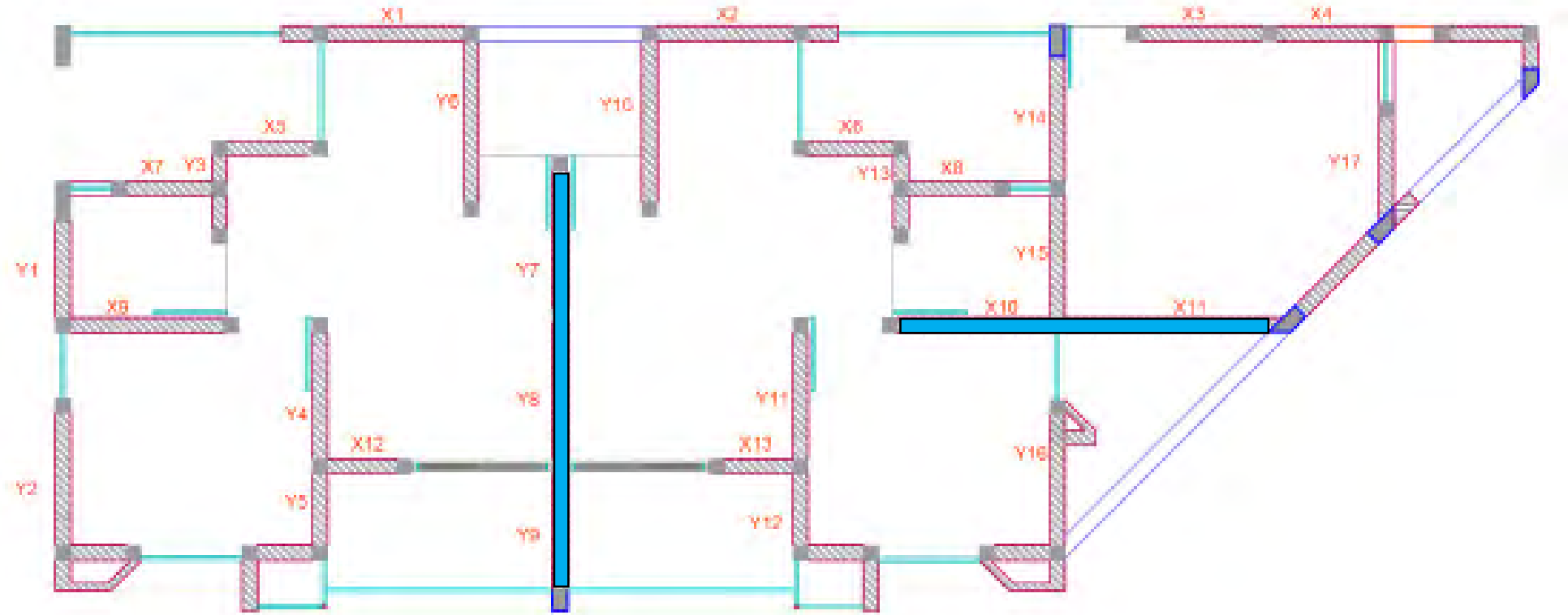
WHY CONFINED MASONRY WAS SELECTED FOR THE PROJECT?

The site falls under seismic zone III as per Indian seismic code IS:1893 which implies a shaking intensity of MSK(scale VII). Confined masonry buildings have better earthquake performance than unreinforced masonry walls and reinforced concrete frames. This technology is appropriate for buildings up to four-storey. More economical as compared to RC frame construction.

OLD PLAN LAYOUT :



NEW PLAN LAYOUT :



Structural load resisting system :

In this project confined masonry as composite structural system has been used where different materials contribute to load resisting system.

- A). Masonry : consisting flyash bricks and mortar (m1)
- B). Concrete : m20
- C). Reinfocing steel : fe 415

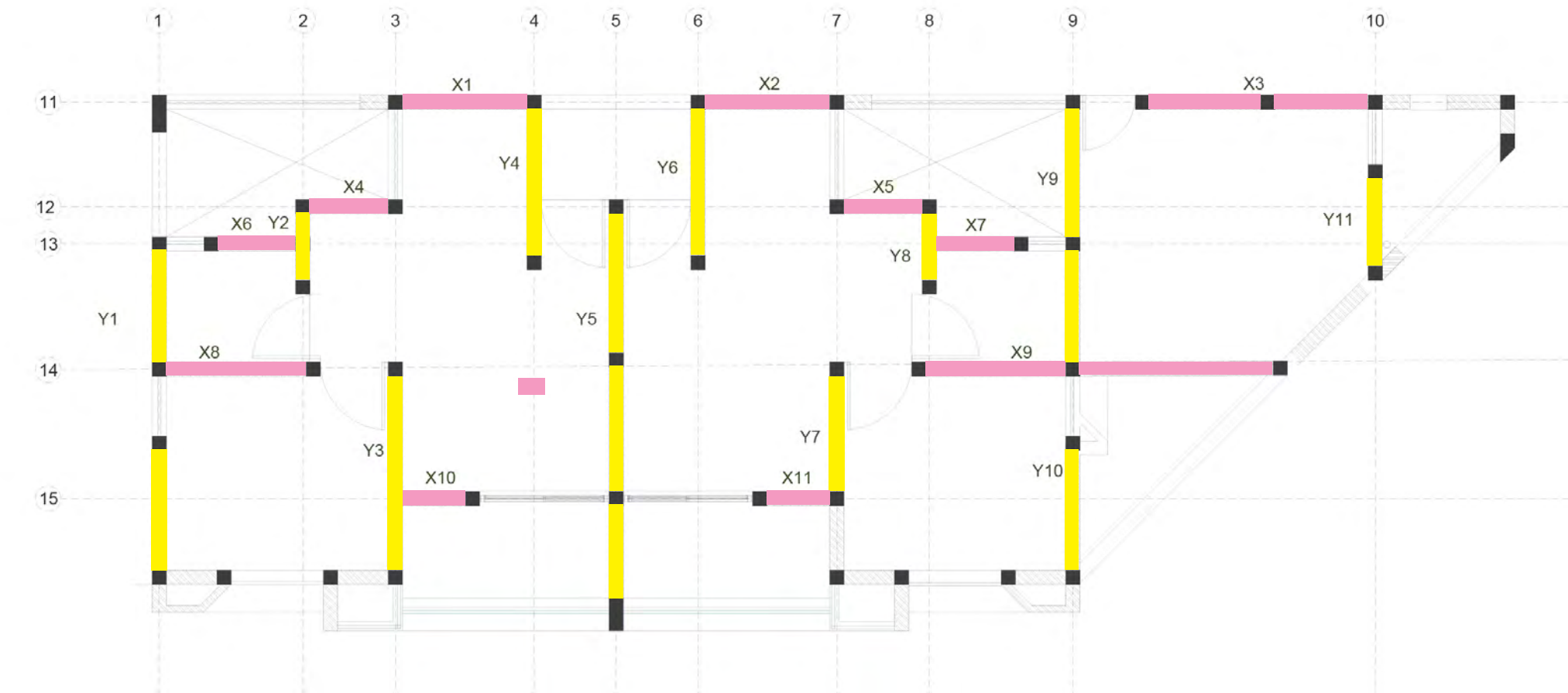
Here, fly ash brick walls has been confined by tie beam and tie column in way that they have become a major elements of the building. Where they are capable for resisting lateral and seismic loads.

As you can see in the plan the walls,

1. In y direction the longest wall – 4.5M is being broken in two parts by one tie columns (230*230) at The length of 2.5M.
2. In x direction the longest wall – 5.2 M is being broken by one tie column (230*230) at the length of 2.5M.

These conditions are playing the main role in taking lateral and seismic loads.

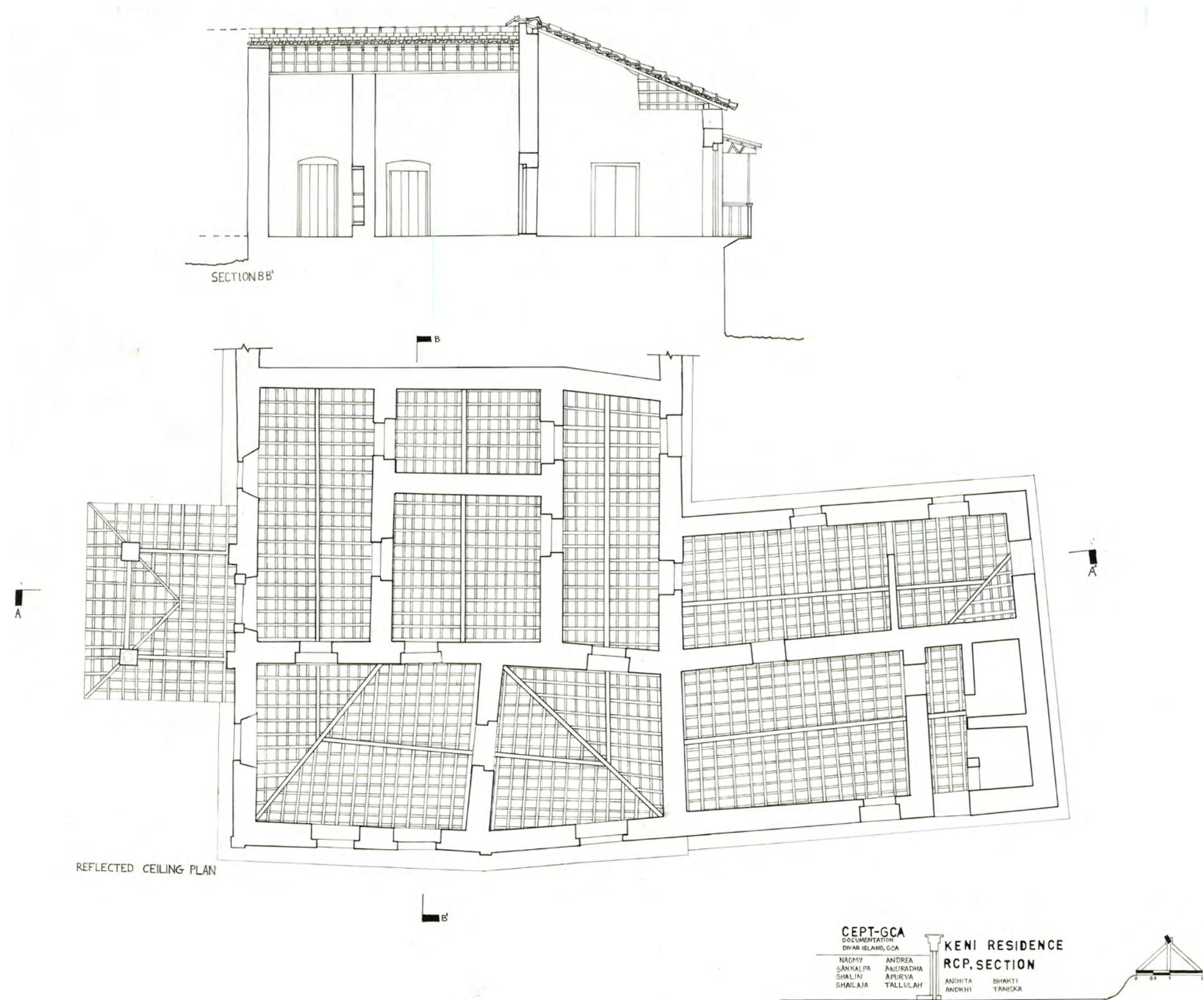
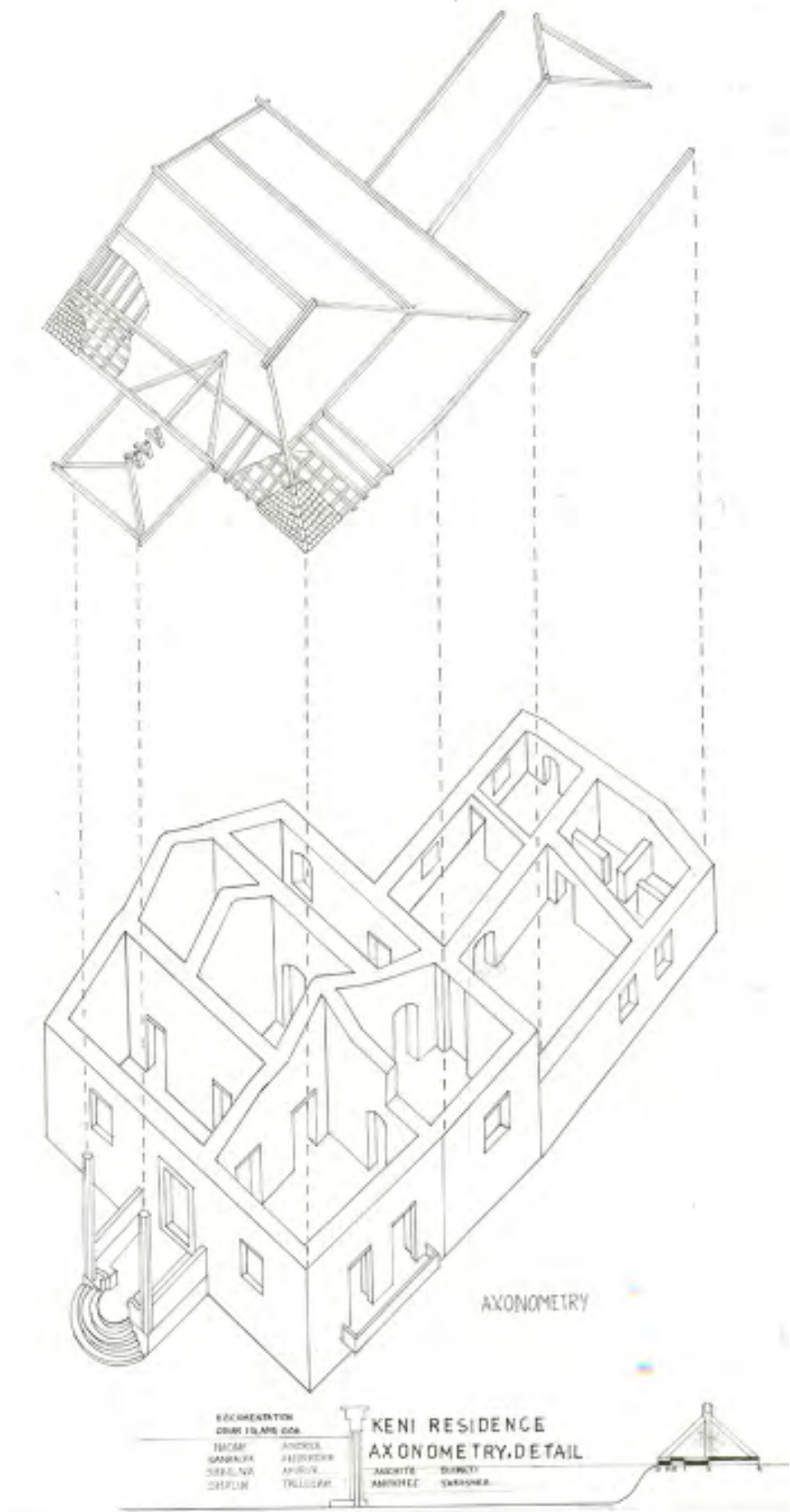
Here, we have shown the confined walls in X and Y Directions.

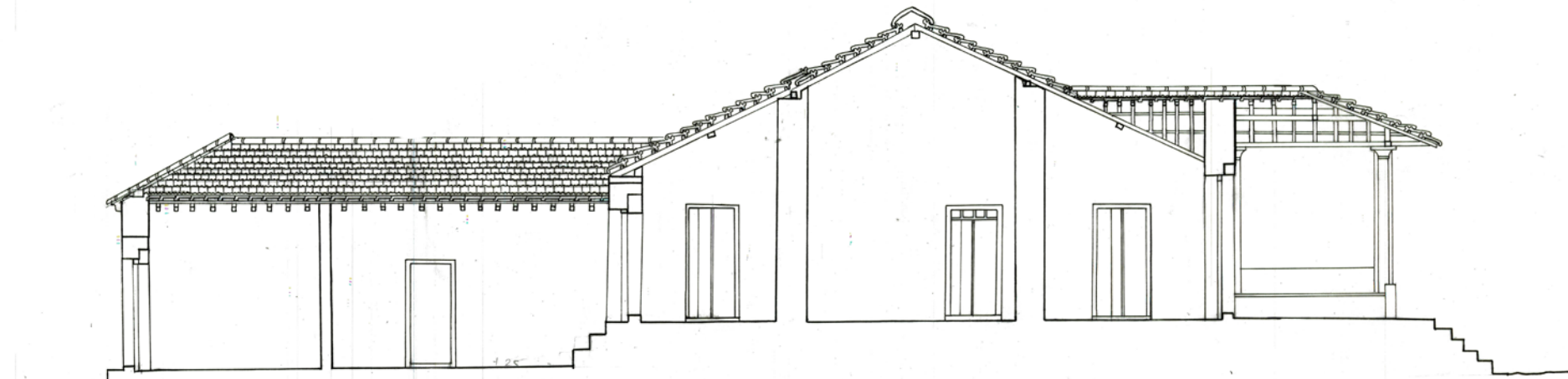


RELATED STUDY PROJECT
RSP - 2016

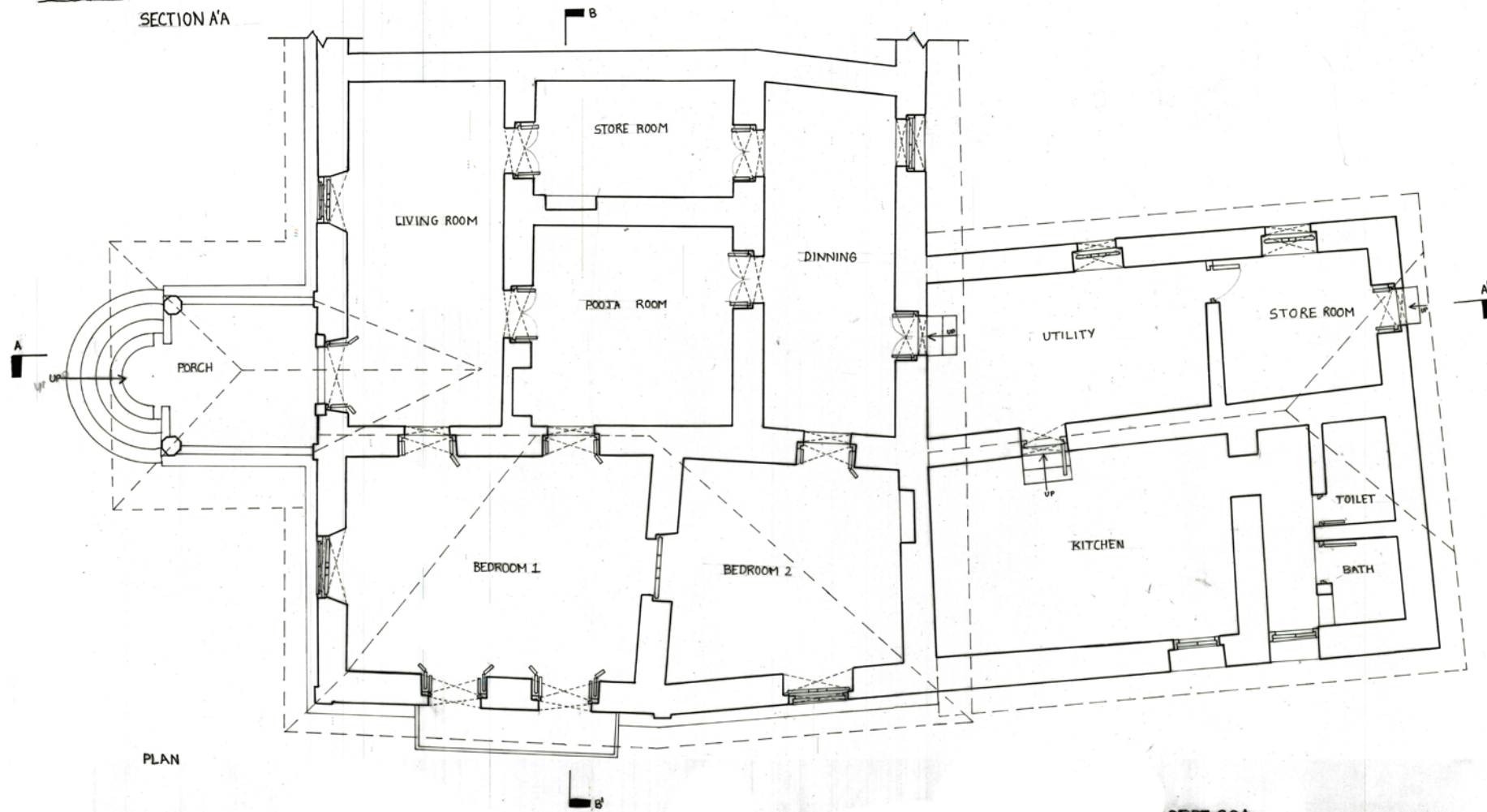
PROGRAM :
HOUSES OF DIVAR ISLAND,
GOA

BRIEF :
Each one of us had to measure draw
Old houses of Divar island in group
of two. it was our first experience of
doing measure draw by studying
local materials and details. In our
case we had around 200 yrs old
typical Goan house. In the end we
came up with various wooden
details and structural details.





SECTION A-A

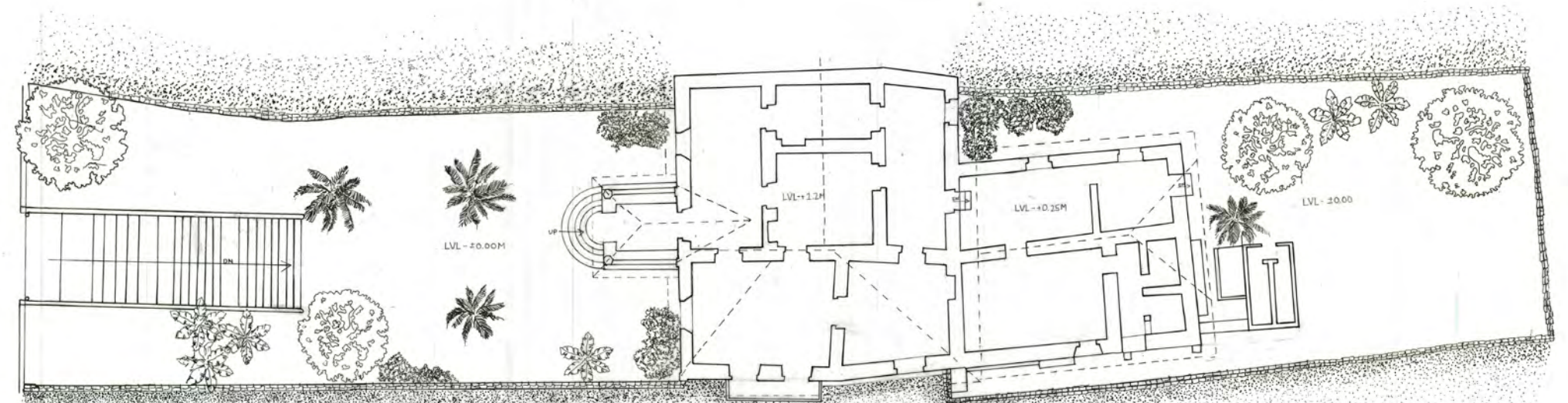


PLAN

CEPT-GCA
DOCUMENTATION
DIVAR ISLAND, GOA
NAOMY ANUR
SANKALPA ANURADHA
SHALINI APURVA
SHALIN TALLULAH

KENI RESIDENCE
PLAN, SECTION

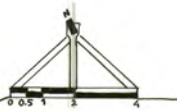
ANCHITA ANOKHI
BHAKTI TANISKA



CEPT-GCA
DOCUMENTATION
DIVAR ISLAND, GOA
NAOMY ANUR
SANKALPA ANURADHA
SHALINI APURVA
SHALIN TALLULAH

KENI RESIDENCE
SITE PLAN

ANCHITA ANOKHI
BHAKTI TANISKA



SEMESTER - 7

PROGRAM :
SHARED MEMORIES , COLLECTIVE SPACES

BRIEF :

The Patel community who are the original inhabitants of Ambli, increasingly move out of the village. Still, they maintain close connection and feeling of belonging with the gaam, but do not find a common space to feel comfortable at. This proposal is concerned with connecting them (as well as the rest of the community members) with their native village. To achieve this, I have mapped their spaces of memories through a participatory perception mapping that included the Patel community members, their trust, and other residents who use the common temple regularly. Location of this program placed at one of the most memorable places for the long-standing residents, at the edge of Ambli lake beside the Gan-pati temple. The program came from my conversations with the above-mentioned user groups. This intervention will be a place for literature, learning, education as well as other communality activities and services that the community needs to access. The plaza is aimed at religious activities connected with the temple, as well as communal activities like yoga and meditation.

Scenario of the Patel Community :



Patel's came from different part of gujurat and established the Ambli Village



Patel community used to live in small Vas



They used to farming before near by Ambli

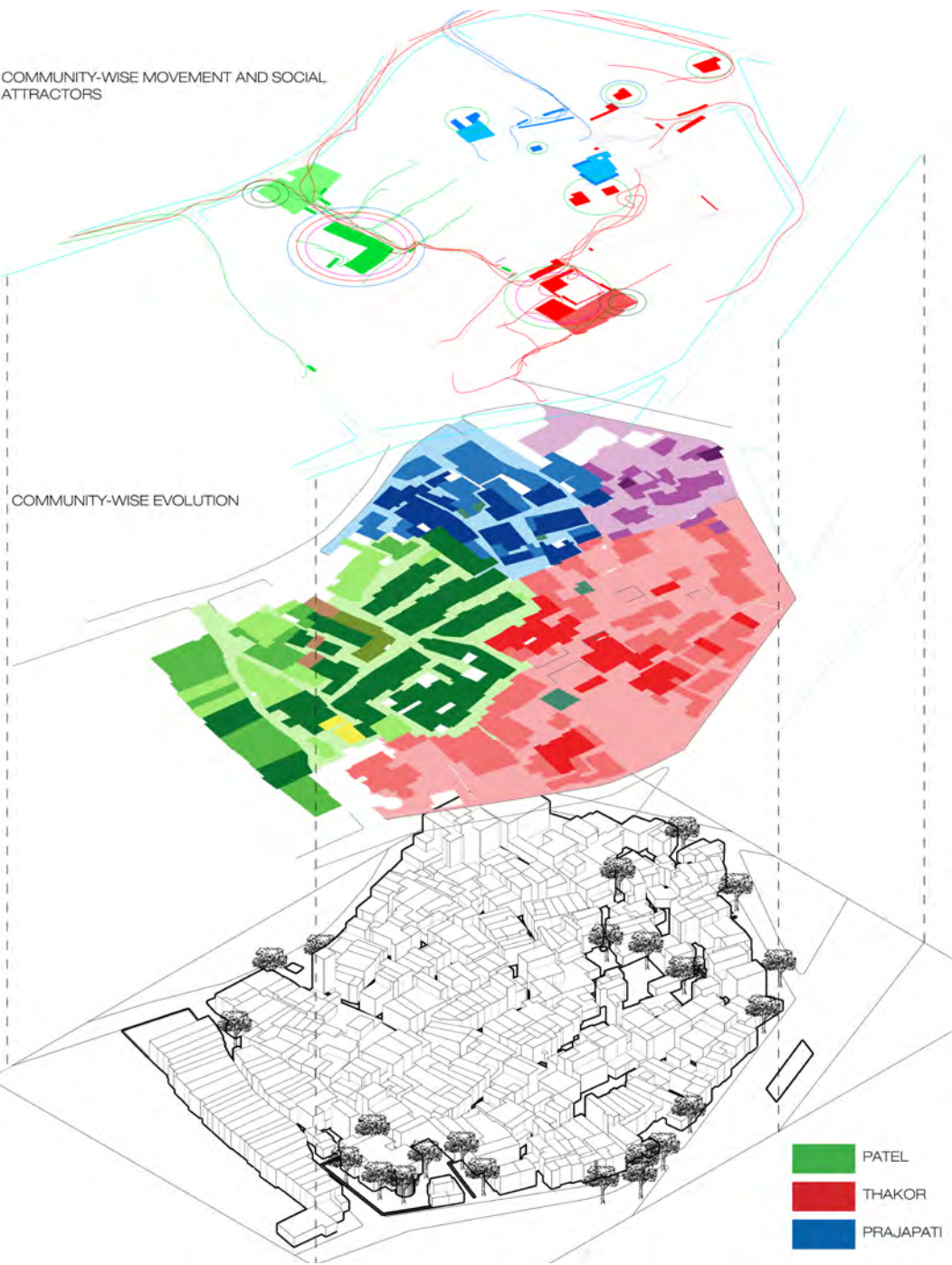


After some year the number of houes increases.

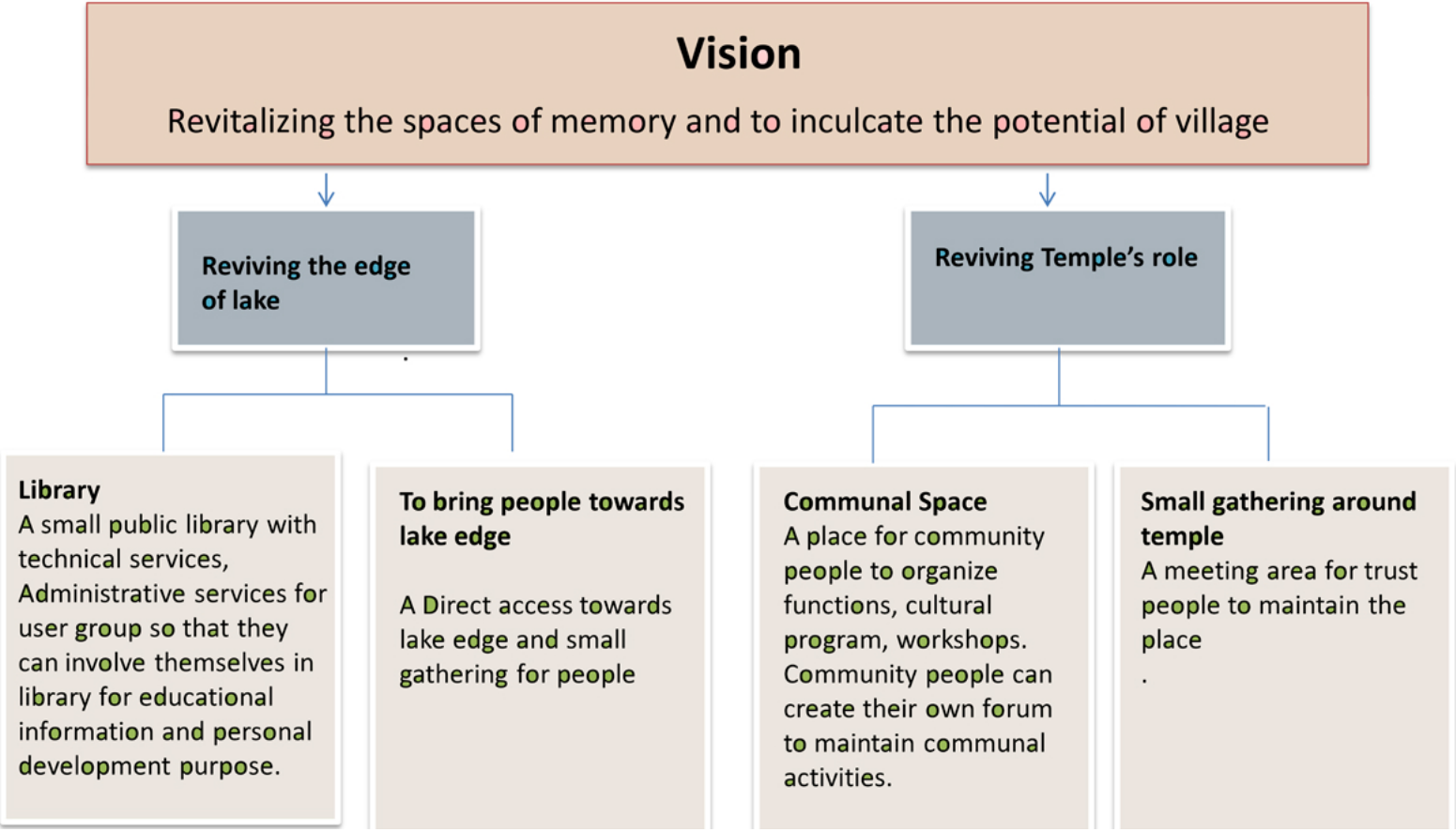


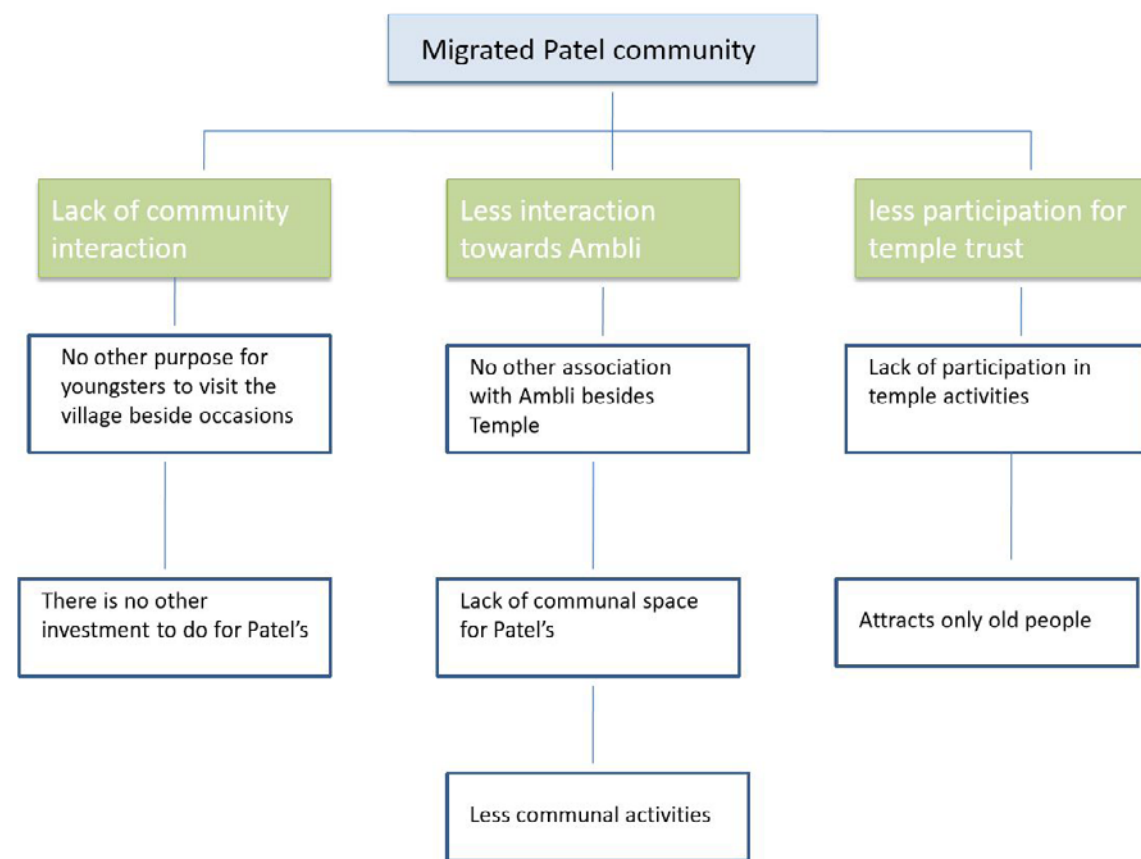
Patel's were the core reidents of the Ambli village and they have moved out of the Ambli because certain reasons like, Increment of Family members, Most of them got job and buisness work out of the village. Better education for their children. These main factors are the reason of choosing them as user group to get them closer to their native place.

Social Structure of Ambli



Social connection and Memories :





Strategic Plan

Problem tree :



- 1 ONE OF THE OLDEST TEMPLE USED MOSTLY BY PATEL COMMUNITY
- 2 MOST ACTIVE PATH USED BY ALL RESIDENTS OF VILLAGE AND PEOPLE WHO ALL LIVE NEAR BY TO THE AMBLI VILLAGE
- 3 KHODIYAR TEMPLE IS OWNED BY PATEL COMMUNITY AND ACTIVELY USED BY THEM ALSO
- 4 THE SITE IS JUST BESIDE THE GANPATI TEMPLE AT THE EDGE OF THE AMBLI LAKE

Site Analysis :



Community Engagement

The community engagement was held at two different locations, one at Ganpati temple and Second at Khodiyar temple. The user group who took part in the design consultation were from trust Mandal of both Temples and belong to Patel community. when the design was introduced to them they are quite positive about the design and implementation for this particular place. On the other side they were concerned about 'Mandapa' for temple activities also the open space in front of the temple. The main discussion was carried out about how the temple activities will take place and how the project will respond to the temple premises.



A

B



A'

B'

PLAN
SCALE 1:100

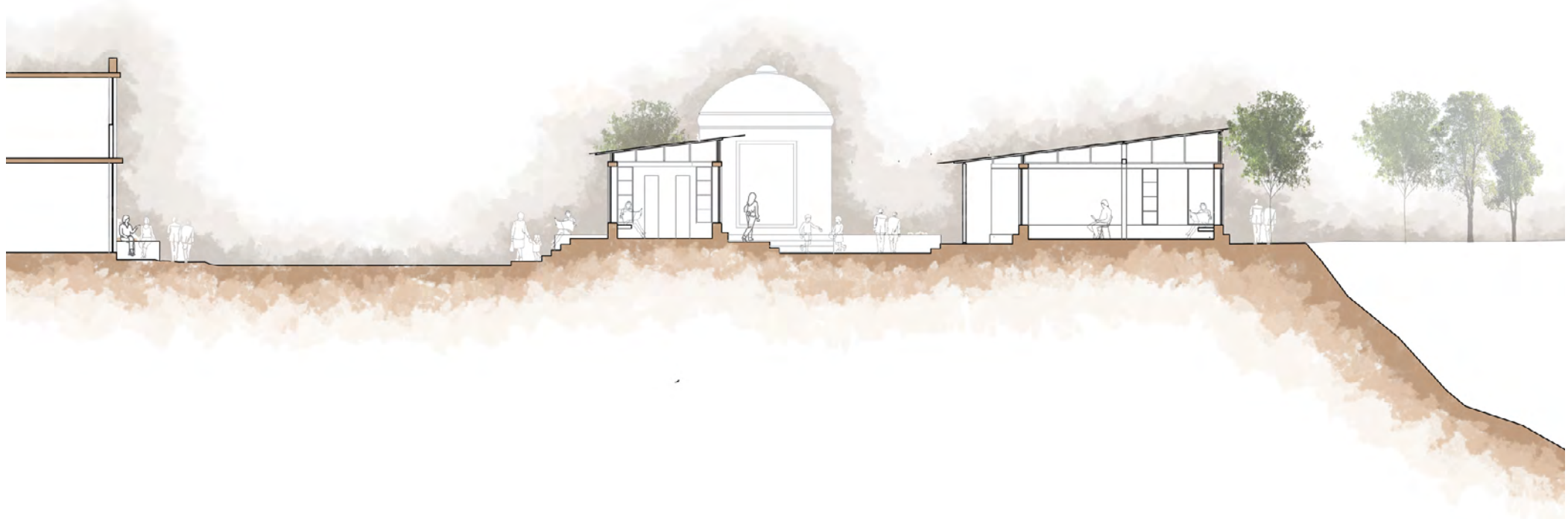
This program has different stakeholders at different times where the primary stakeholder are people from Patel trust. The secondary stakeholders will be the Patel community and AMC. Residents of the village and people who are living around the village are tertiary stakeholders. In four certain phases, the project will execute by them with a probable timeline and funding where the involvement of stakeholders will take part according to their necessity and position.

The initiation of this place will start with communal activities which could encourage people to use the library and other surroundings. Bookstore and public space on the lake edge will be helpful to the tertiary user group. The management of the place will be done by trust people.

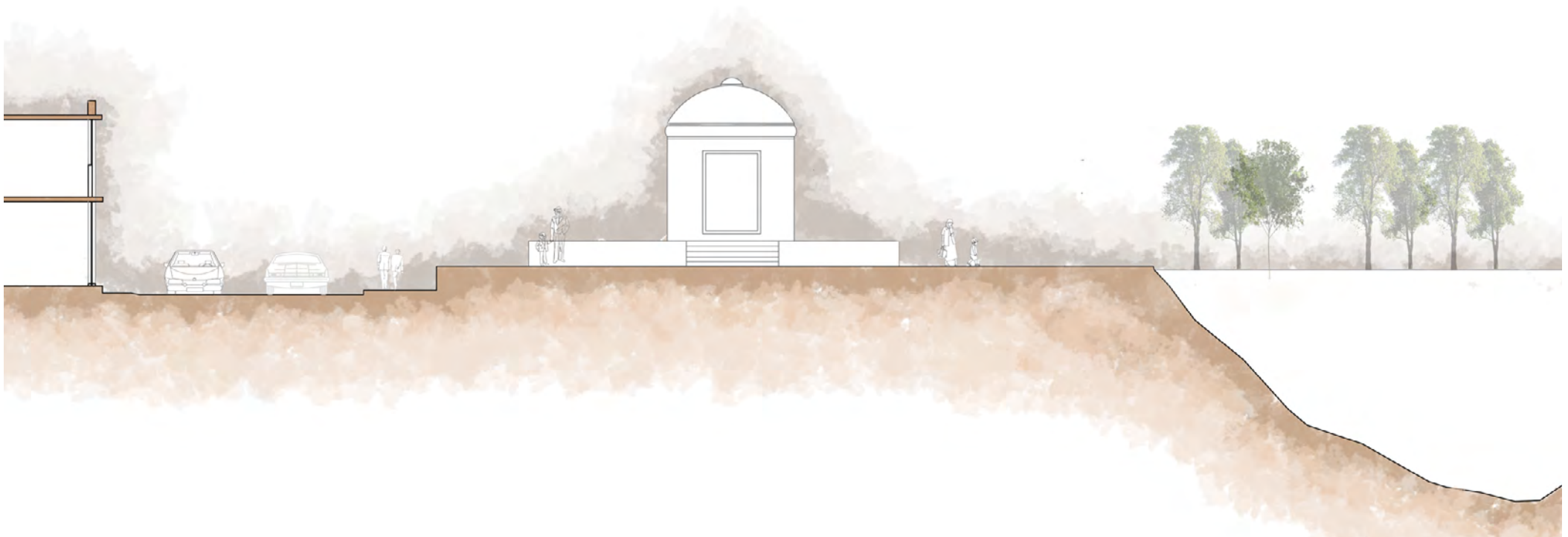
The perception for the future is that this project will give good opportunities to people who are still associated with Ambli village. It will maintain the consistency of the communities and the intergeneration gap where intergeneration activities will play a major role. The investment of time and funding of a Particular community will revive their sense of belonging towards the Ambli village



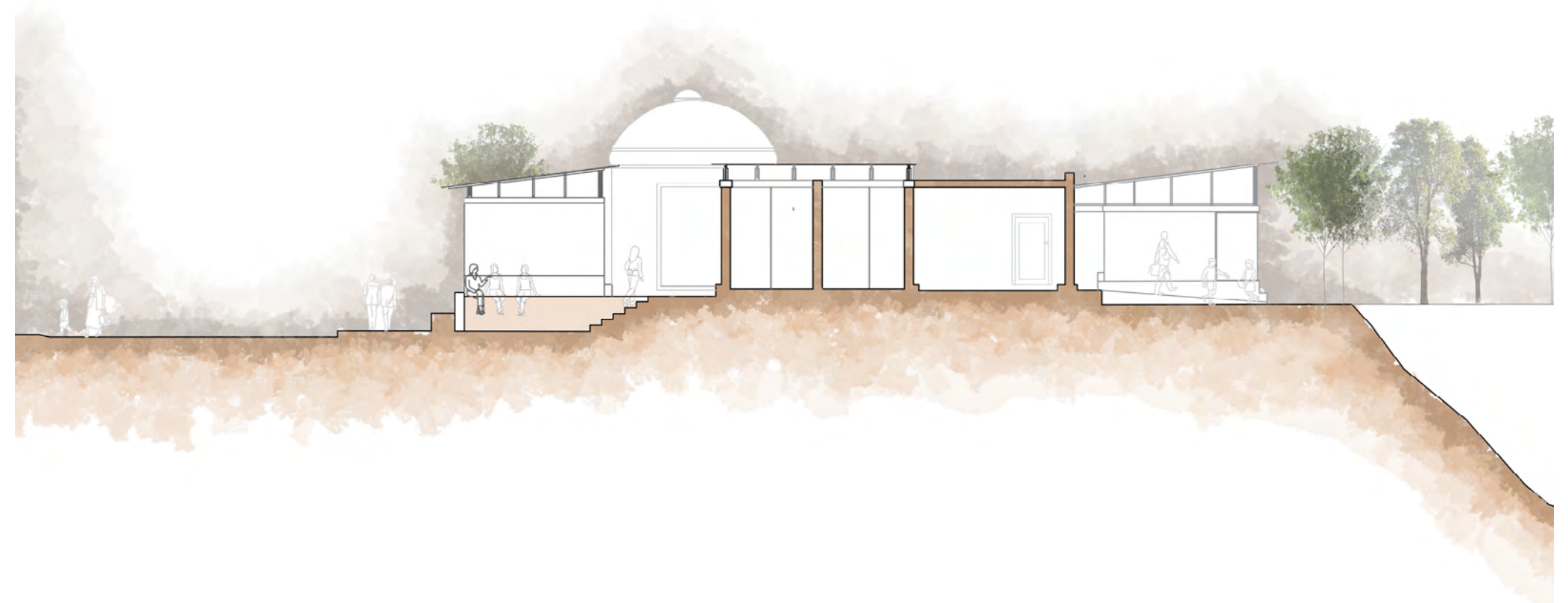
Front Elevation
Scale 1 : 100



Section AA'
Scale 1 : 100



Section cc'
Scale 1 : 100



Section BB'
Scale 1 : 100

