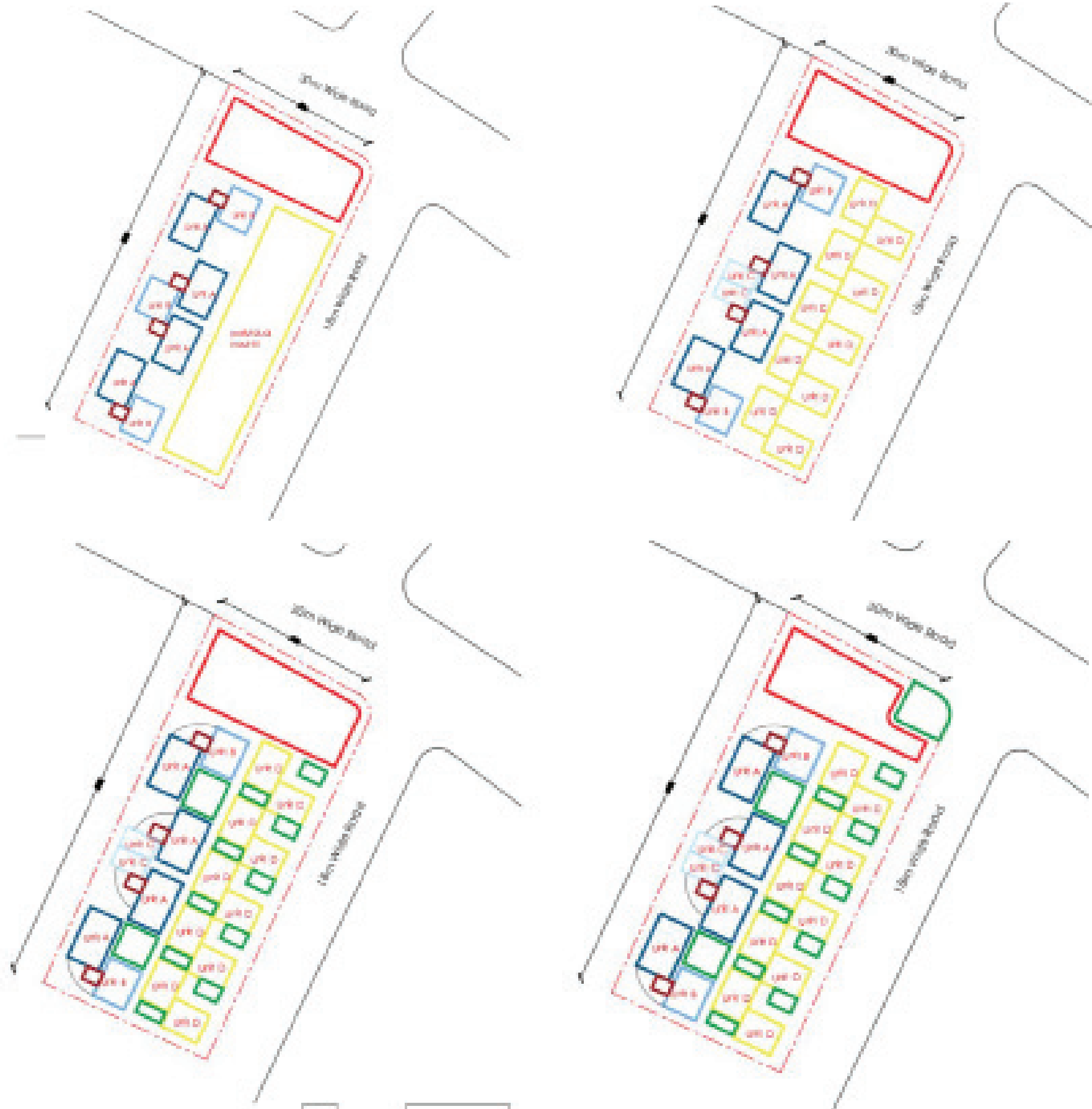
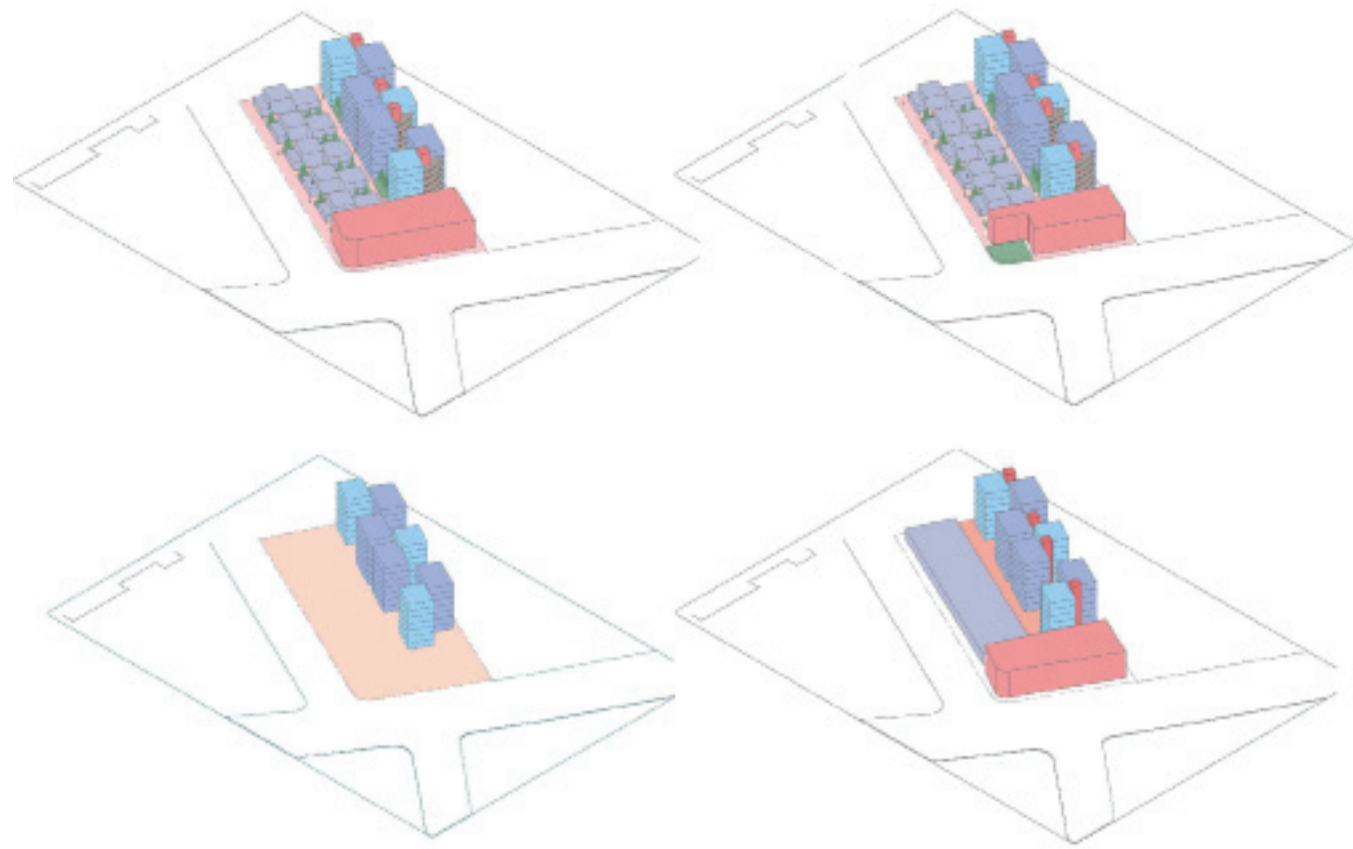
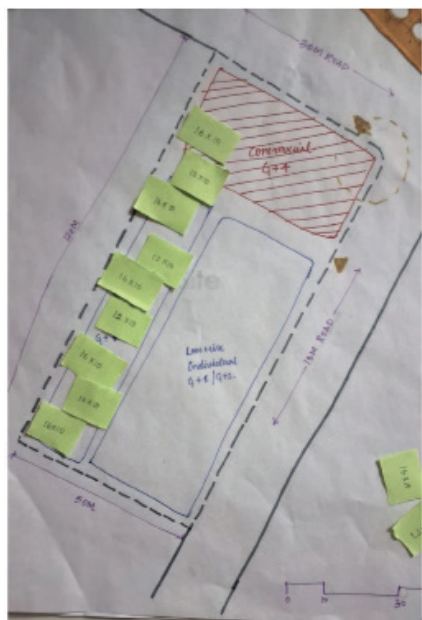
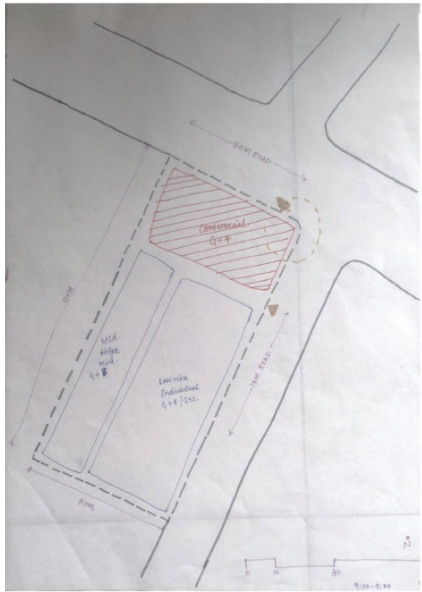


This studio tackles two key challenges in housing design: rapid yet effective design execution, and achieving a meaningful balance between design quality, profitability, and regulatory compliance. To address these, students engage in a mainstream housing project based in Ahmedabad, completing it within an intensive 4-week period. Despite the constraints, the goal is to create spaces that are both meaningful and compliant with financial and regulatory demands.

The first 12 weeks are dedicated to preparing for this final project. During this phase, students conduct extensive research on housing, engage in multiple design explorations, and propose strategies that integrate complex systems and services within housing projects.





TP 1

Zone- R1  
 Building height - 45M  
 FSI -2.7  
 Set backs - 6-9M

Context study- G+14 structures  
 3BHK apartments

Programme  
 Commercial: As a part Public-  
 landscape intervention.

Residential:  
 High rise - 3BHK Units- 140SqM  
 Low rise - 4BHK units - 180SqM

TP 2

Zone- R1  
 Building height - 45M  
 FSI -2.7  
 Set backs - Front- 7.5M  
 Side - 6M  
 Rear - 6M

Tower to tower - 9m  
 Max Built up - 8082 SqM

Programme  
 Residential:  
 High rise - 4BHK Units- 175SqM  
 4BHK Units- 173SqM

26 Units each  
 4550+4550=9948SqM

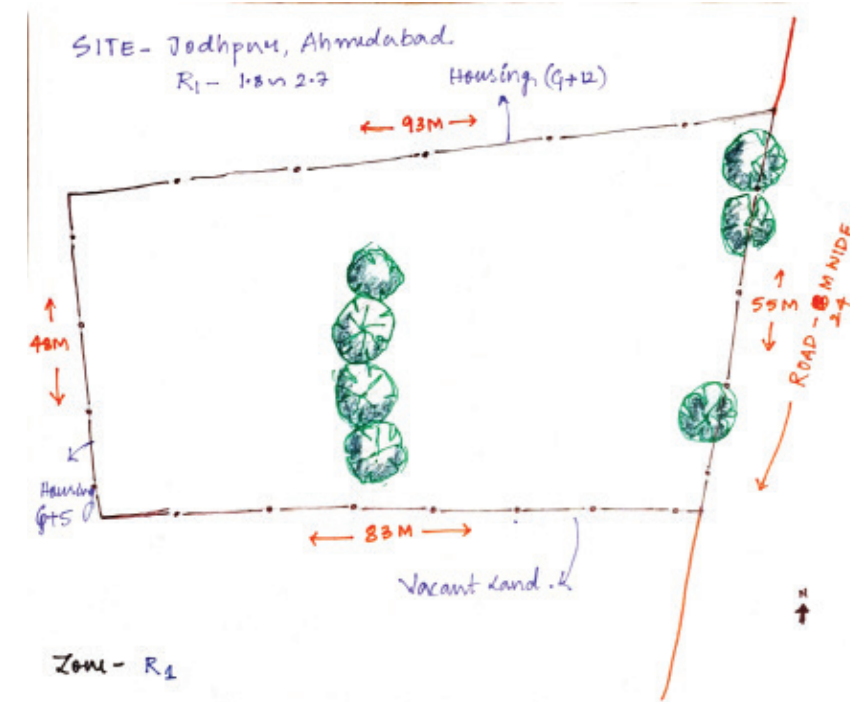
Achieved FSI- 2.2



UNIT A - 175.5 SqM



UNIT B - 173.5 SqM



Zone - R1

FSI - Max-2.7

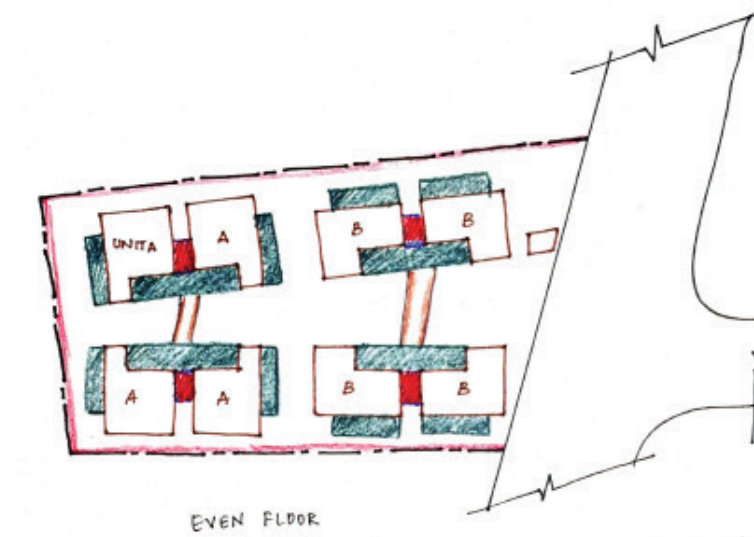
Plot area - 8284 SqM

Max building height - 45M

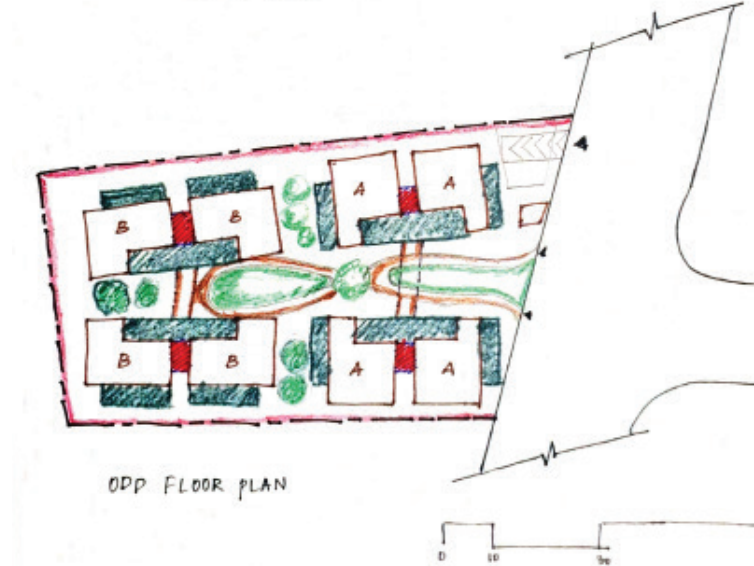
Site margin - Front - 7.5M (2M approach road)  
 Sides - 3M-6M for 45M building height  
 Rear - 2.5M-6M

Permissible built up - 22370 SqM

Max built up - 12,125 SqM  
 for 5M roof height, Max ground coverage = 8082 SqM  
 for built up less than 15,000 SqM.  
 open space percentage = 15% of site area.

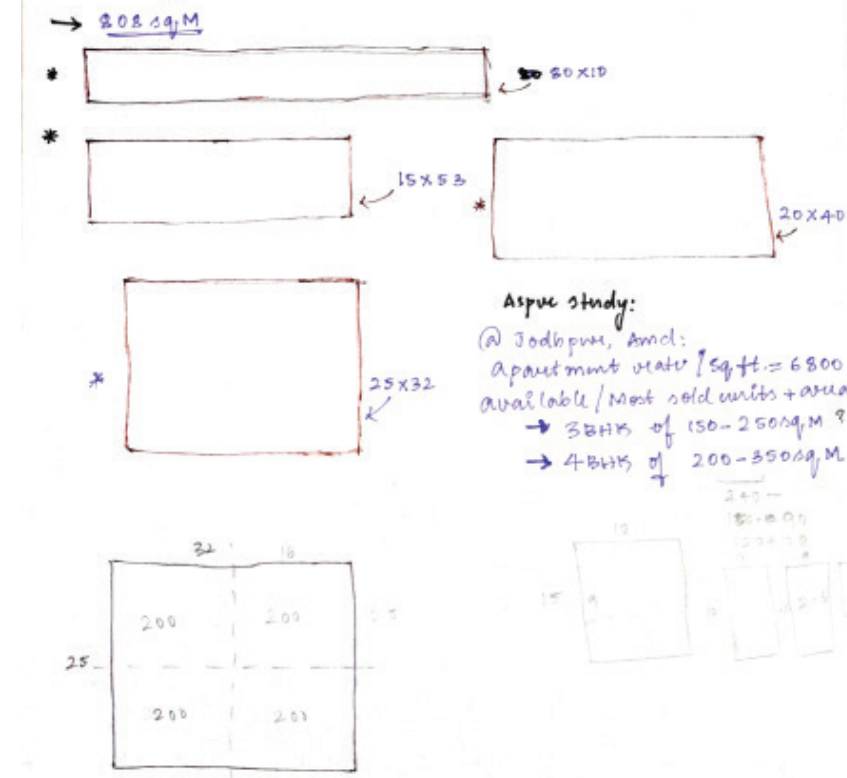


EVEN FLOOR



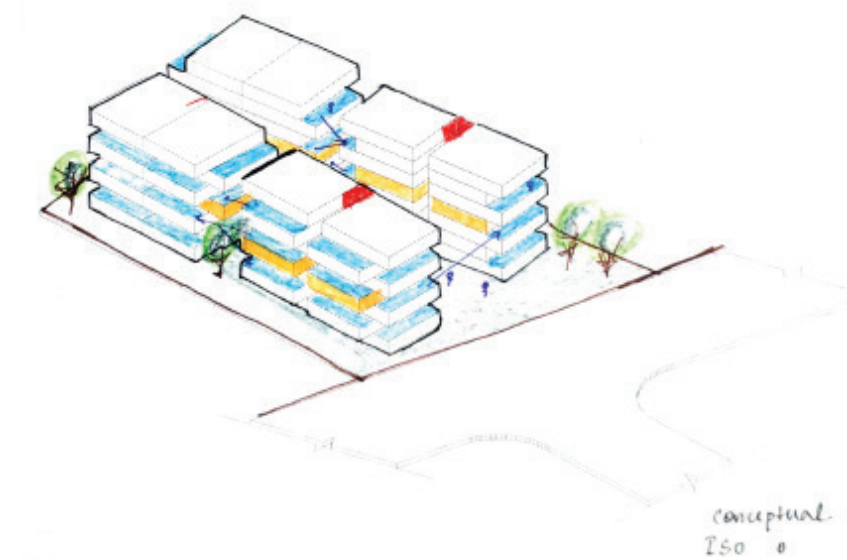
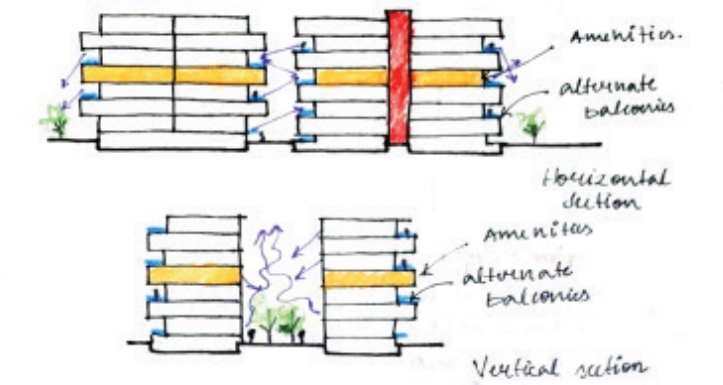
ODD FLOOR PLAN

Possible floor plate area:



Aspc study:  
 @ Jodhpur, And:  
 Apartment rate / sqft = 6800  
 Available / most sold units + area  
 → 30M of 150-250sqM  
 → 4-BHK of 200-350sqM

After unit detail:  
 4BHK - TYPE A - 175.5 SqM | 26 units | 4550  
 TYPE B - 173.5 SqM | 26 units | 4498  
 Total built up 9948 SqM  
 FSI - achieved - 2.2



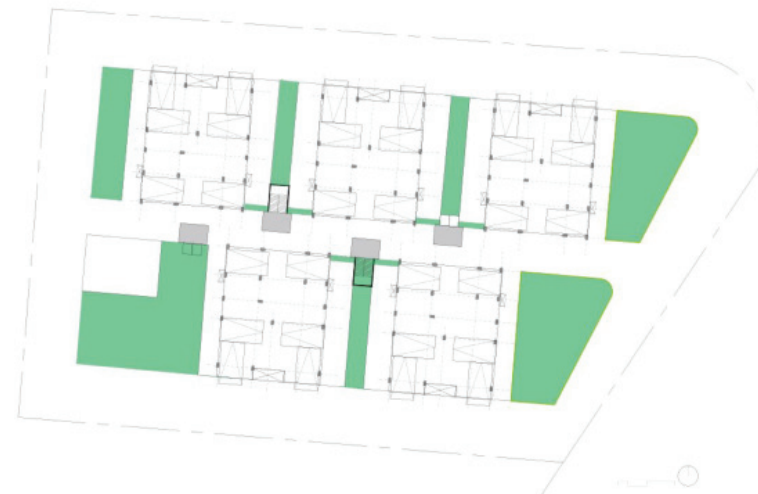
Conceptual Iso



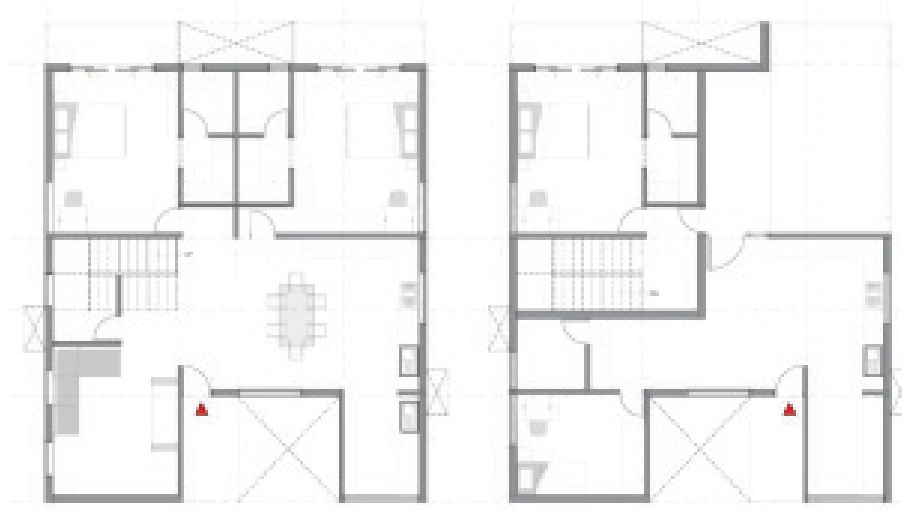
Zoning



Ground floor parking



1,4,7,10 floor plans



2,5,8,11 floor plans



3,6,9,12 floor plans



TP 3

Zone- R1  
 Building height - 45M  
 FSI -2.7  
 Set backs - Front- 7.5M  
 Side - 6m  
 Rear - 6M  
 Tower to tower - 9m

Programme Residential:  
 High rise - Type 1- 3BHK- 135SqM  
 Type 2- 2BHK- 65SqM  
 Type 3- Studio- 50SqM  
 Total Built up area- 8364  
 FSI achieved - 2.7

BUILDING - 01										
UNIT										
TYPE OF UNIT	NO. OF USERS	CARPET AREA OF UNIT	NET CARPET AREA OF UNIT	BUA OF UNIT	NO. OF UNITS PER FLOOR	TOTAL BUA OF ALL THE UNITS IN A FLOOR	NO. OF FLOORS	TOTAL NO. OF UNITS	LOADING FACTOR (CARPET / SUPER BUA)	TOTAL NO. OF USERS
Studio apt	3	50	35	50	5	250	4	20	0.7	60
2 BHK	3	65	45	65	10	650	4	40	0.7	120
3 BHK	5	135	95	135	5	675	4	20	0.7	100
TOTAL						20	1575	12	80	240

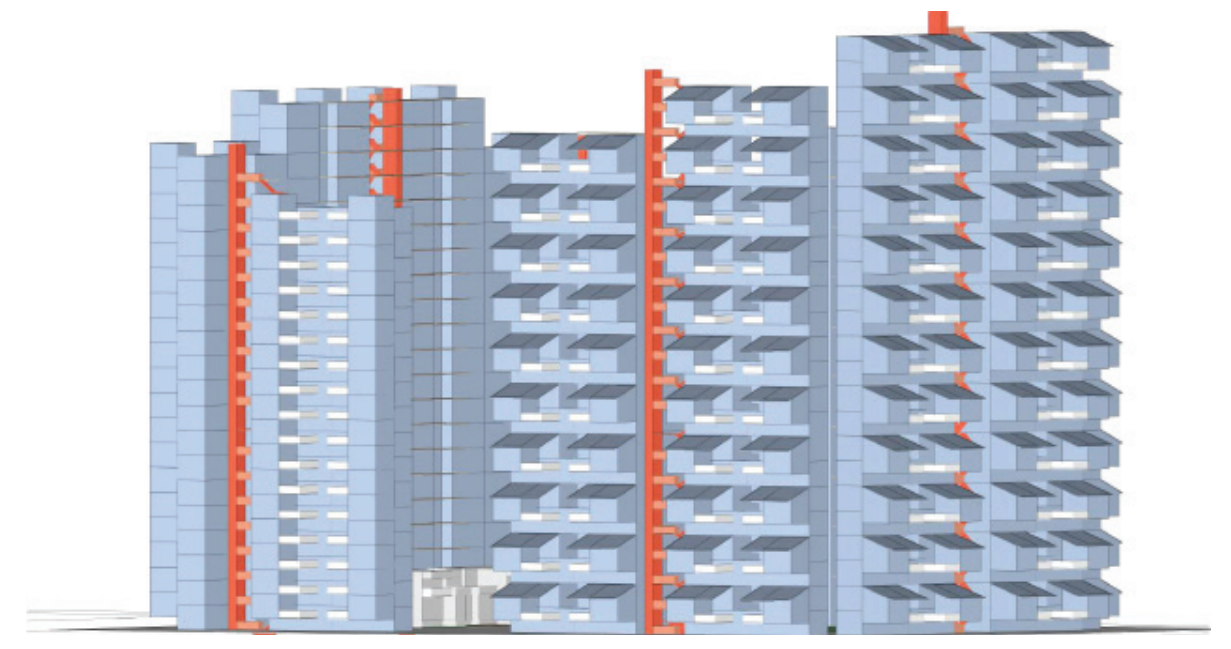
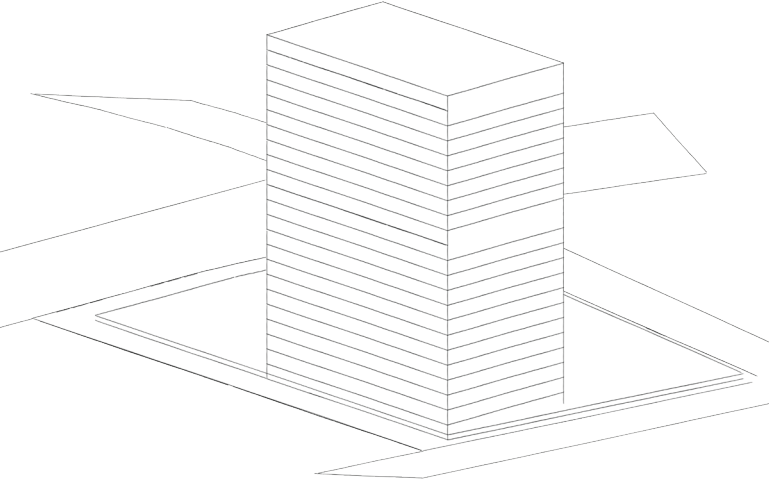
  

FLOOR TYPE	BUA OF UNIT	NO. OF UNITS PER FLOOR	NO. OF FLOORS	CORRIDOR AREA	AREA PER FLOOR	TOTAL FLOOR AREA
Floor Type - 01	50	5	4	172	422	1688
Floor Type - 02	65	10	4	172	822	3288
Floor Type - 03	135	5	4	172	847	3388
<b>TOTAL BUILT UP AREA</b>						<b>8364</b>

TP 4

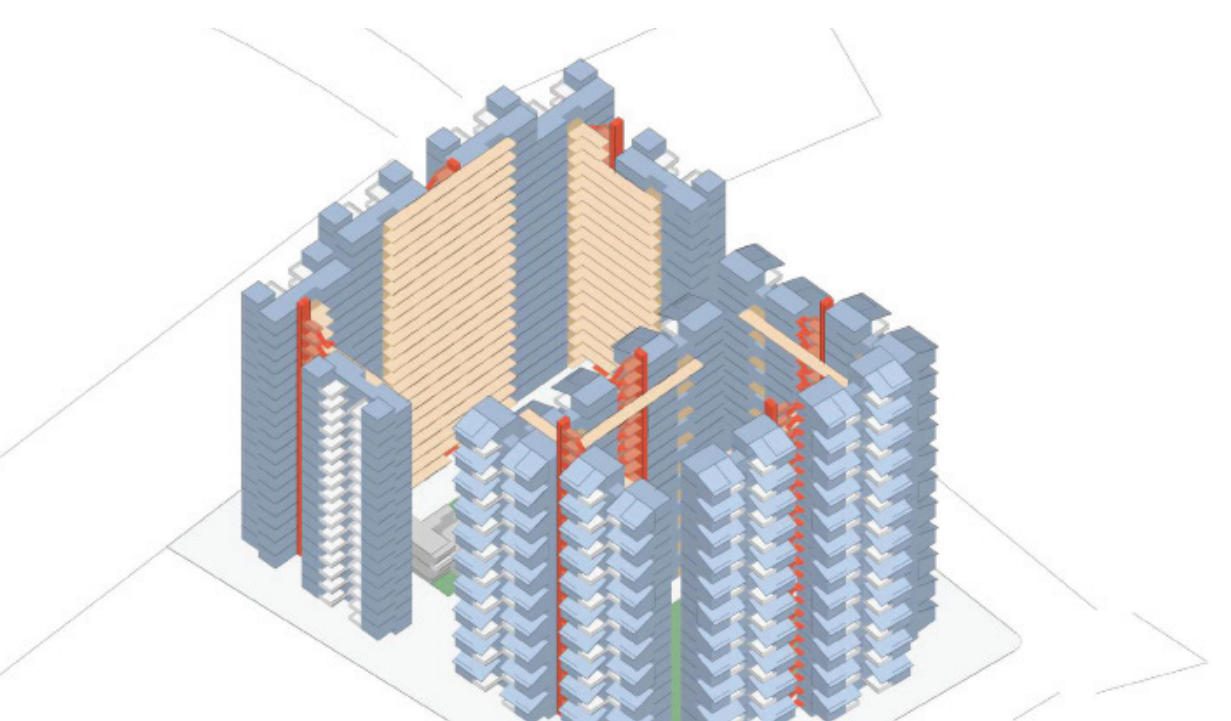
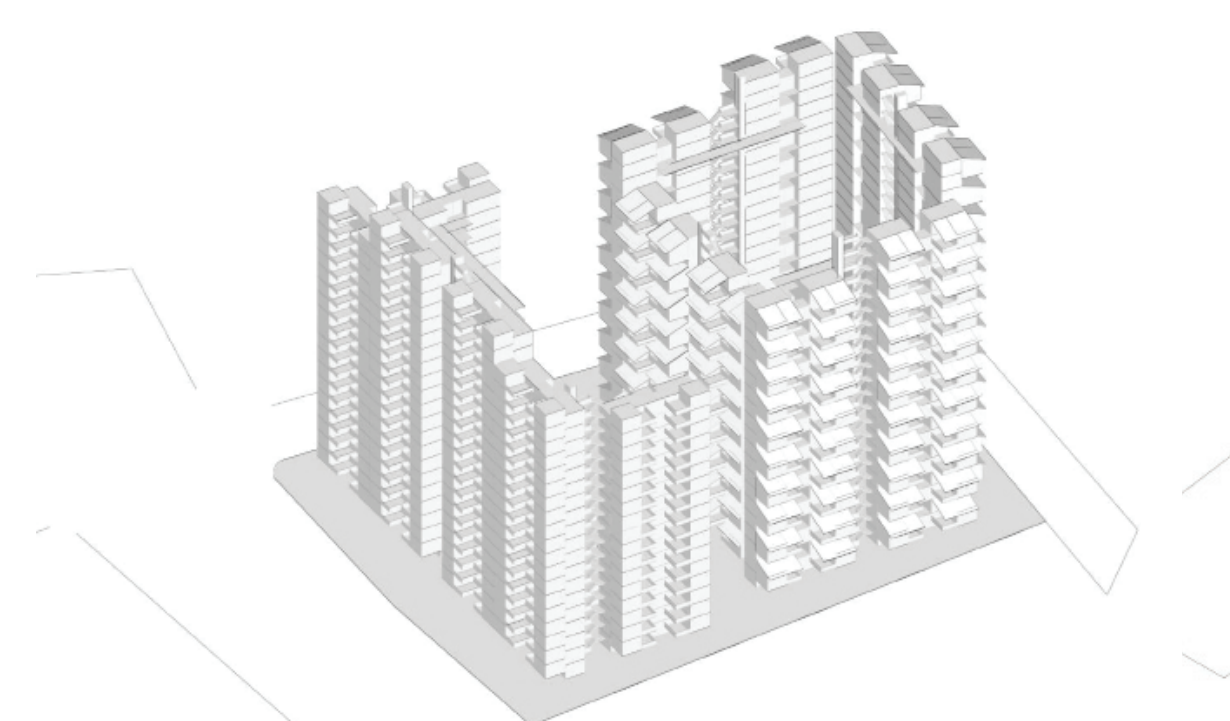
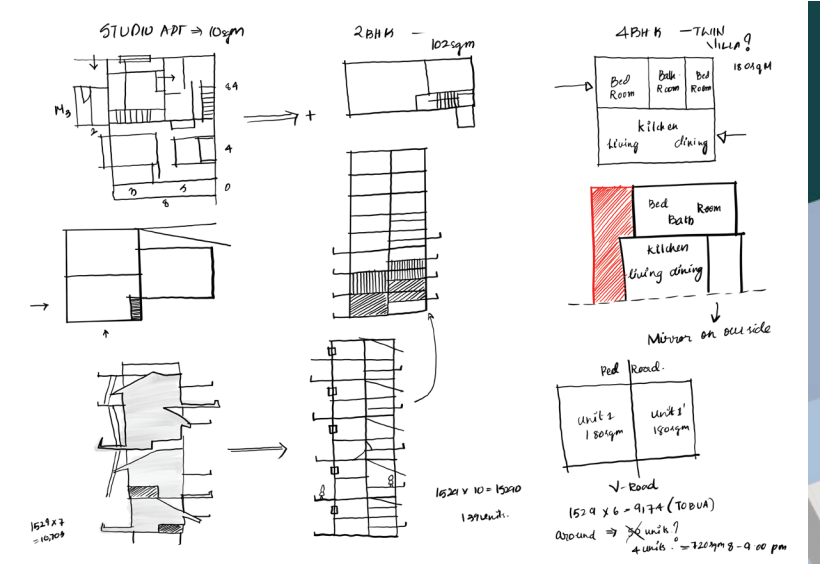
Zone- R1  
 Building height - 45M  
 FSI -2.7  
 Set backs - Front- 7.5M  
 Side - 6m  
 Rear - 6M  
 Tower to tower - 9m

Programme Residential:  
 High rise - Studio - 70 Sqm  
 2BHK- 102 Sqm  
 Total Built up area- 34452  
 FSI Achieved-3.0



" I have water, soap and give you a space for lot of creativity, I definitely need a door. I need privacy " says the bathroom, so follows the bedroom, "ohh! I think I am done being covered as a private space. I am used to anything and everything, why is there even a wall? I am unaware. I want to see from inside and welcome who ever comes. And treat them by being what they want. I don't want to be defined as a space, constrained by one man of huge furniture." And the kitchen from a corner says," I think I need a window, that overlooks up who is coming and going. In that case I feel I am the best placed soon after you enter " some old soul : "ohh kid we were a huge family with a lot of individuals. Everyone surving a unique purpose. Not just within the family but also around us, we were connected as a community. To the sky, to the stars, the sun and the moon. The plants giving flowers gave a fragrance that flow through the kitchen. "Ajji, we also have neighbours, but just that we are unaware of them. What to do everybody is busy in working. Fast life you see."

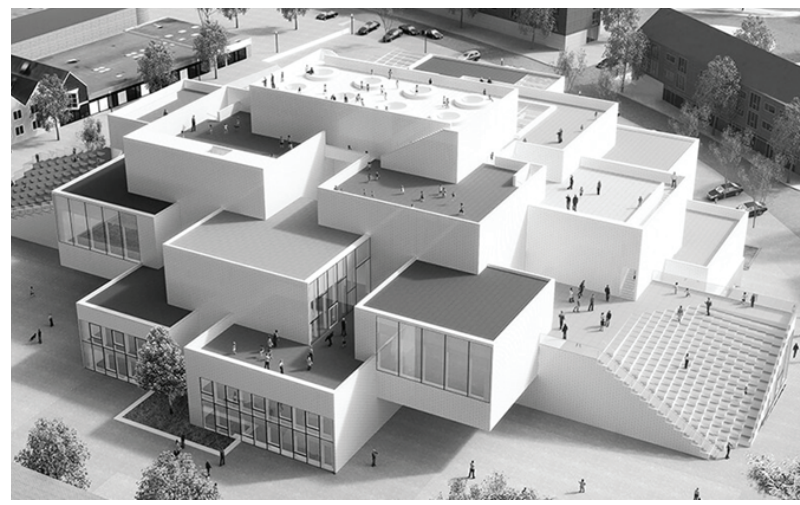
"Oh yes dear, fast life higher ambitions and flying goals. You have wings, we will be the roots, wishing you from the ground..." says the villa.





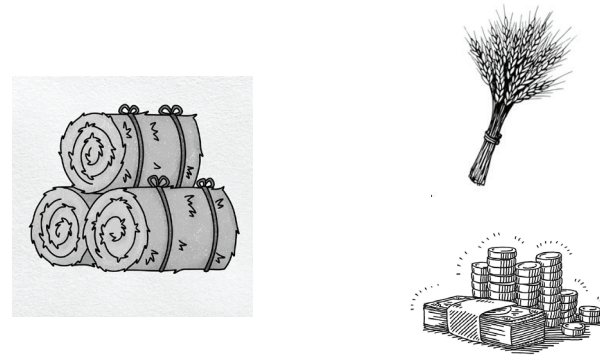
# Seminar - WHY NOT? Unconventional housing

## Feeling on seeing high rise towers



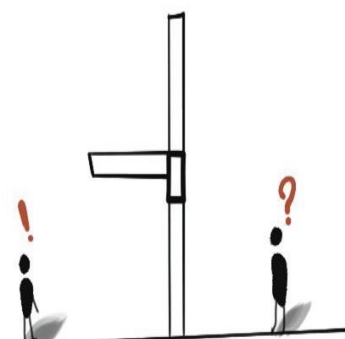
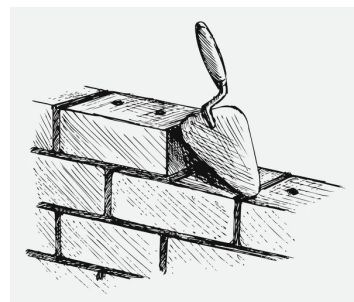
## Stacking...

The words , history (entomology) is traced some where in 10CE from middle English 'hay stack' was from where the word 'stack' emerged... Followed with, pill of straw wood, grain and some time money as well in general, stacking is a pill of identical objects. Or to arrange somethings in particular manner.



## In Architecture

Where as in architecture, when talking about the smallest possible material, a brick when arranged along h or v axis even that is called stacking. But it fascinates me , when a 3 m is a wall of double height space!

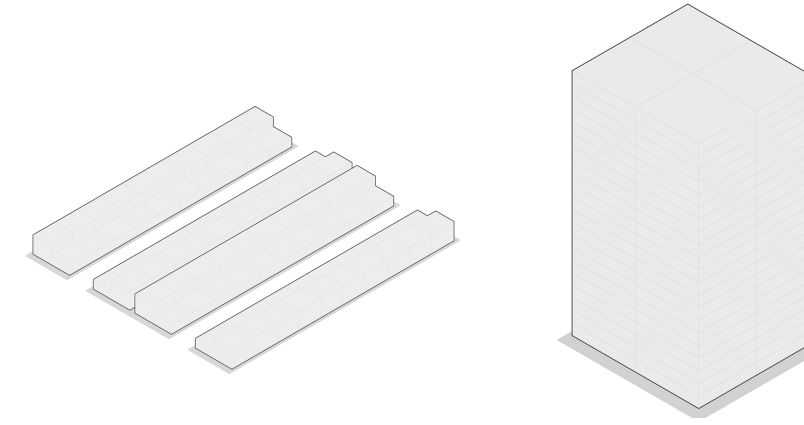


## In Housing

Housing Here, in housing it's about arranging individual units along the wall along the slabs . More than arranging, stacking is more about attaching individual units along the walls or along slab or some time both.

But why? But, why was this required? What was the need of it? What made with stack along each other?

User Builder



When looked at it from 2 lenses, the user wanted an affordable , convenient and flexible dwelling, where as for a builder it's always a good investment.

## Understanding through History

When we trace the history, Town House, where the row houses, as a typology was observed. This allowed multiple types of units stacked along wall. This also allowed to generate multiple income sources, than a single family. This was beneficial in densely populated area and served well for the high demand for rental properties.



During 3rd CE, commercial dwellings of 4-6 stories were found in Rome and Egypt, . Here ground floor was mostly commercial and above were the dwellings stacked and during 16th CE, 30M, 10 Storie Apartments were found in Shbam Houses, Yemen.



In both the cases. mud bricks were used to build thick load bearing walls. as the height was increased, the topmost units were cheapest, as they were considered highly dangerous. and these units were used mostly for rental purposes.

## With steel in the construction industry...



In both the cases. mud bricks were used to build thick load bearing walls. as the height was increased, the topmost units were cheapest, as they were considered highly dangerous. and these units were used mostly for rental purposes. But when steel was invented as a material in construction, Skyscrapers were introduced to experiment in modern society. Louis Sullivan works around 'tripartite' Principle of having 3 distinct divisions in a building stacked above one another.

Hans Zwimpfer an architect from Switzerland, started stacking a single family unit on top of each other. And he patented apartment building as a design concept. Luxury as an other ingredient was added to the apartment typology and thus people started to trust and buy units.

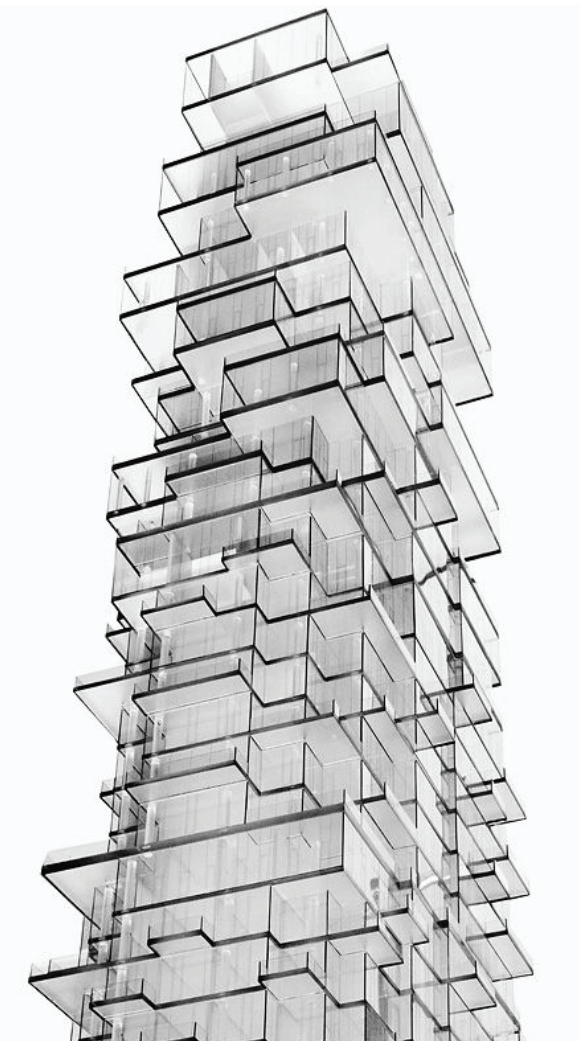
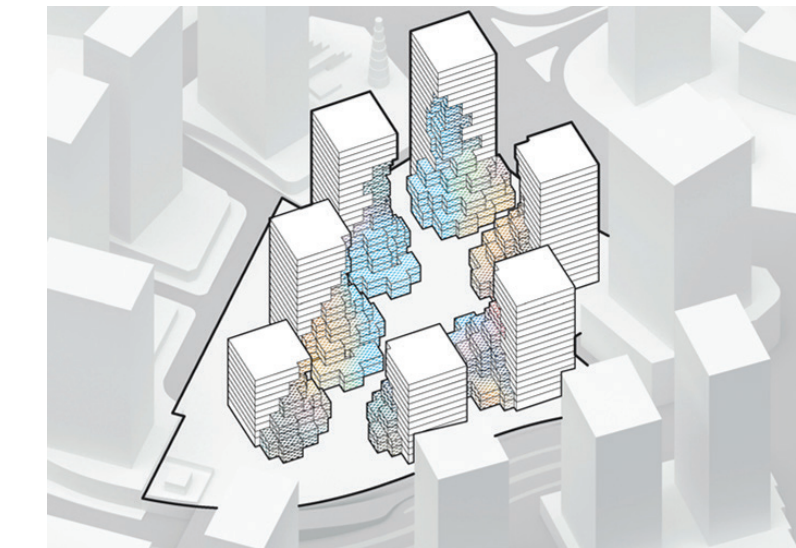
Around 1940, Le Corbusier in Unite - D habitation, had around 332 apartments and 23 typologies. It was a city in itself, with 1700 habitabts, commercial buildings, in 7&8th floor, 8 interior streets with overlapping a 2 storey apartment and garden at its 17th floor.



These many experiments and interpretations were made and as the time rolled on, new inventions were made. Architects started to explore on the concept of stacking to Pixels in 2d - voxels in 3d or modules in terms of Architecture.

## BUT Why was this done???

- Is this an alternative for conventional stacking??
- Or is this about living units outside the box??
- Or is it to show Dynamism in architecture??
- Or is it to introduce new way of living??
- or the questions can go on and on and on...



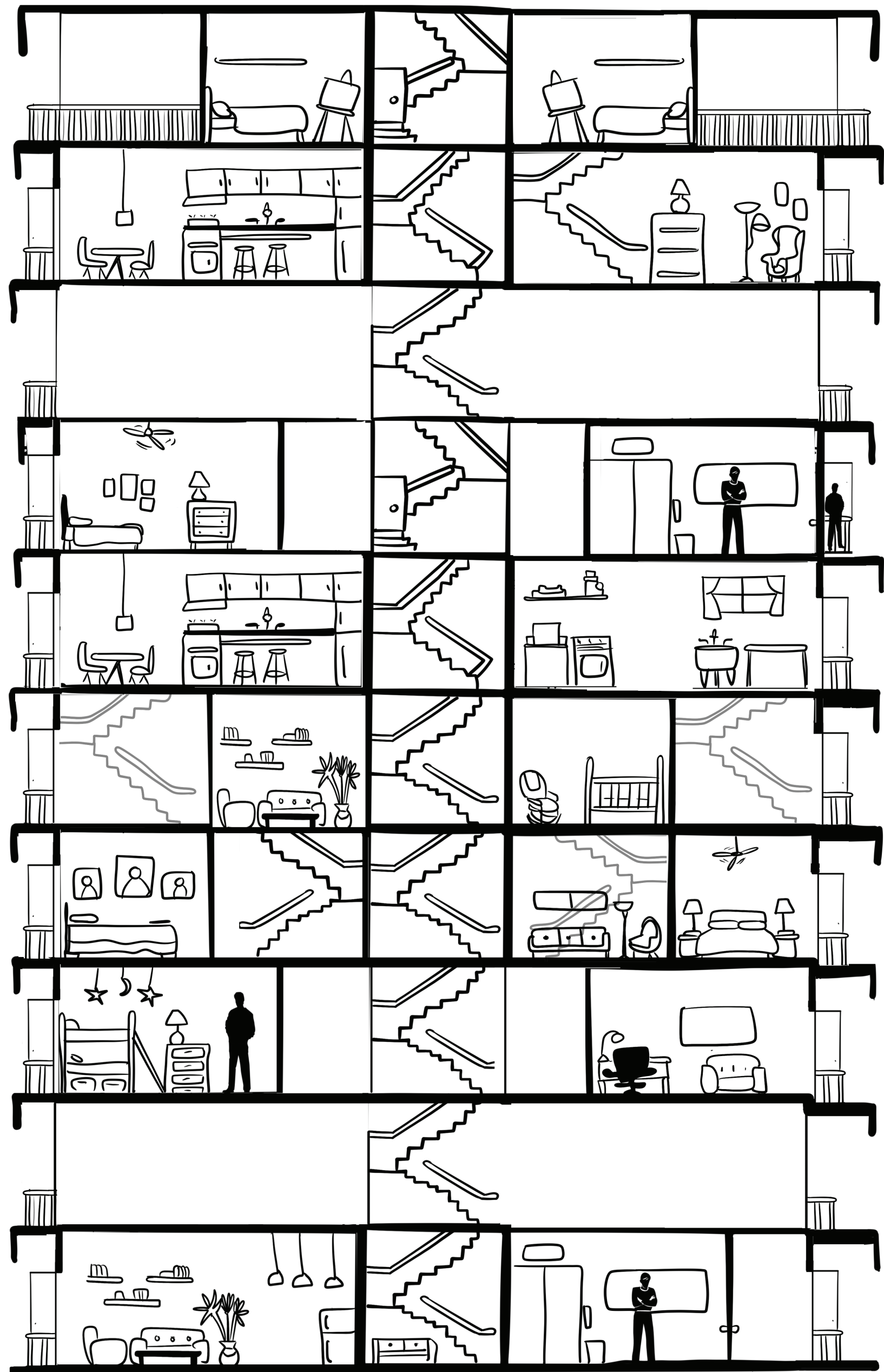
Multiple examples like habitat 67, Monde Res Building, Pixels from MVRDV, 56 Leonard Etc etc are making significant difference in the way of living.

If piles of boxes are the solution for the residential architecture. There can be an aesthetic choice or an attitude towards construction or the life style.

when we believe that the buildings live longer than the time it takes to be constructed, as architects ....

# WHAT ARE WE DOING ?





A board game that had to play around arranging the units with their cut sectional views



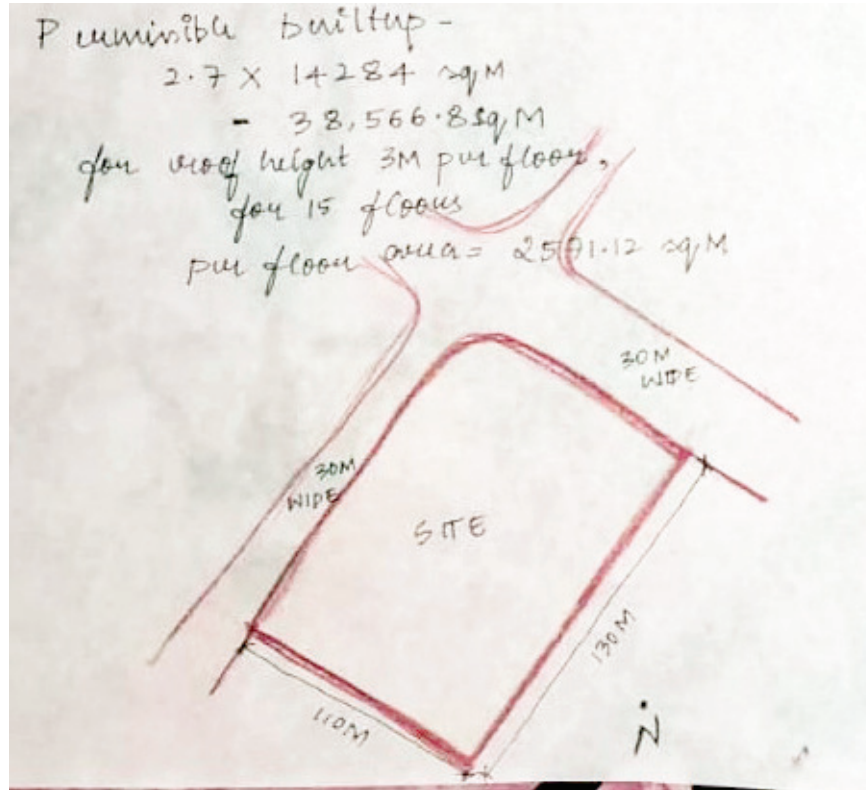
Glimpse of the seminar



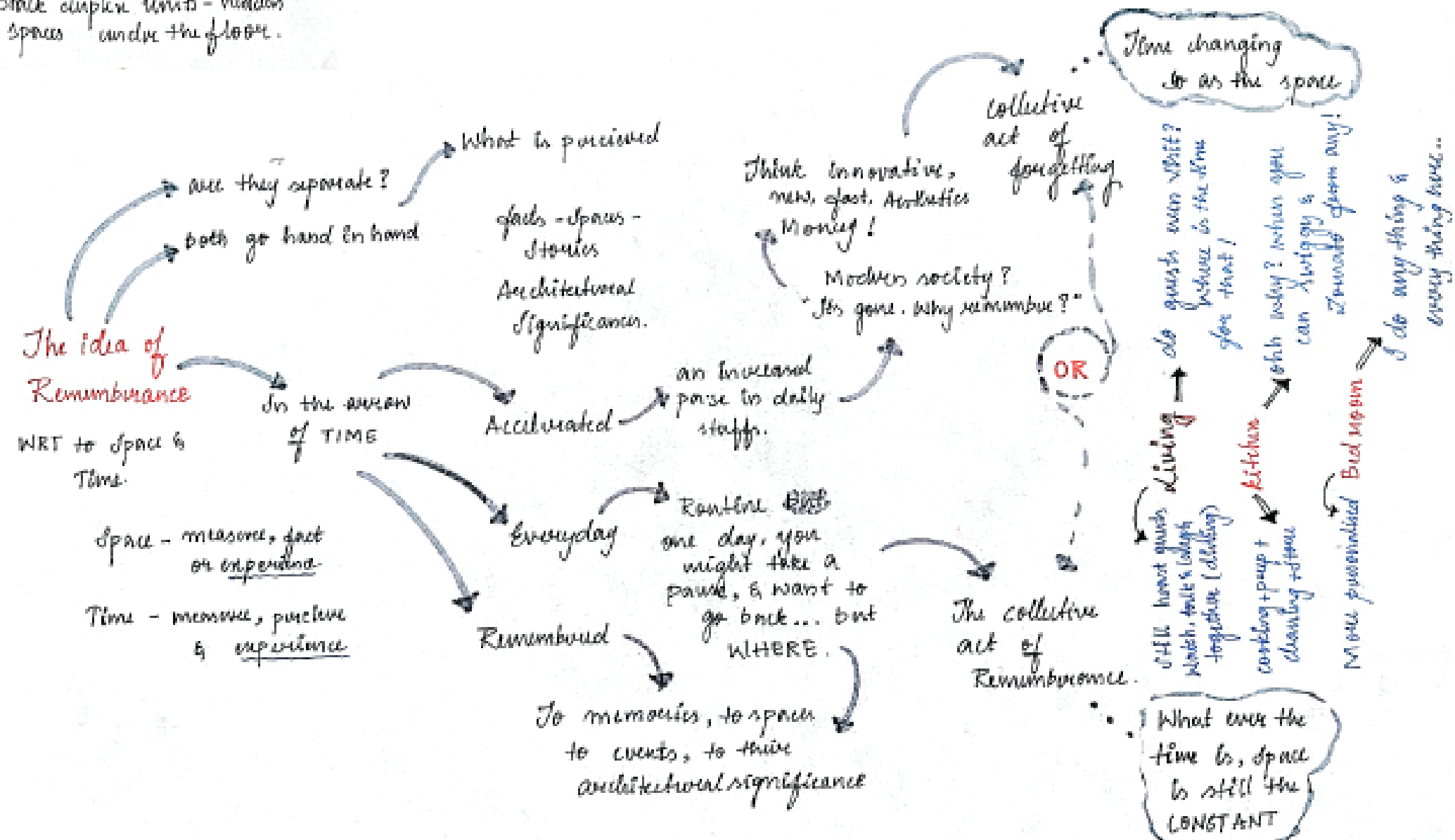
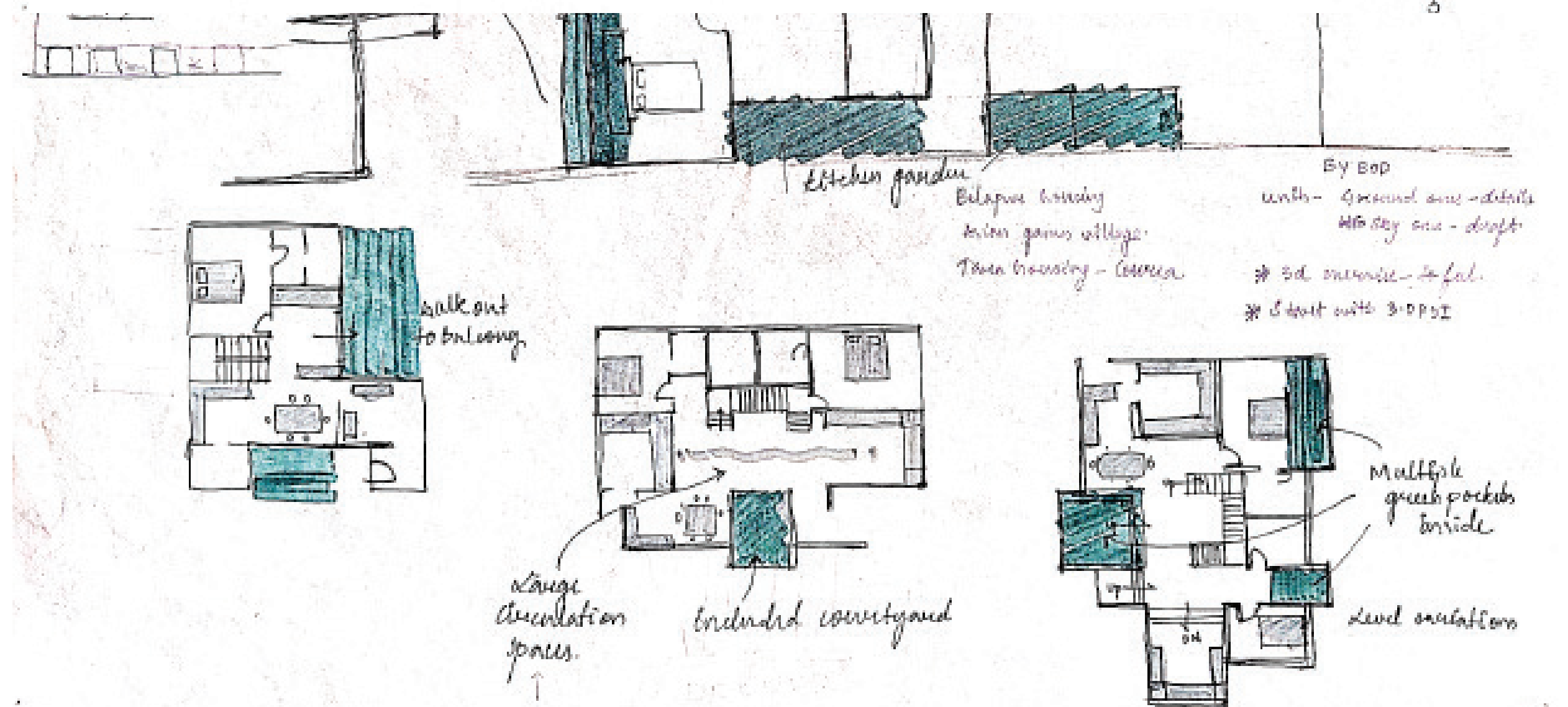
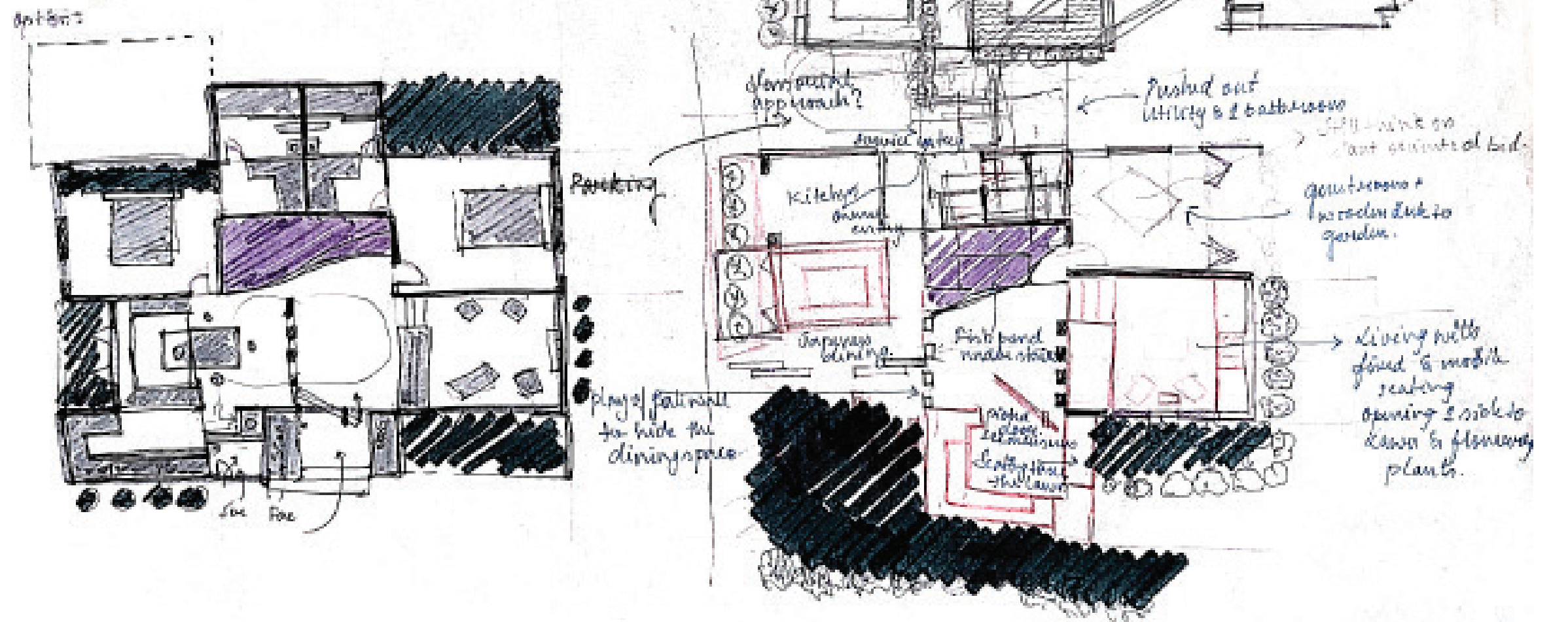
# Housing at GOTA.

## TRIGGERS FOR EACH TP

- TP-01**
  - Mixed use development
  - on housing commercial and residential units.
- TP-02**
  - Stacking - same unit but different orientation
  - getting zigzag balconies in elevation - facade.
- TP-03**
  - Stacking 3 different units into a conventional form
  - fig out structures, plumbing & other services.
- TP-04**
  - blw flying high & being grounded
  - who love to be in sky still has love to motive ends
- TP-05**
  - To stack duplex units - hidden spaces under the floor.

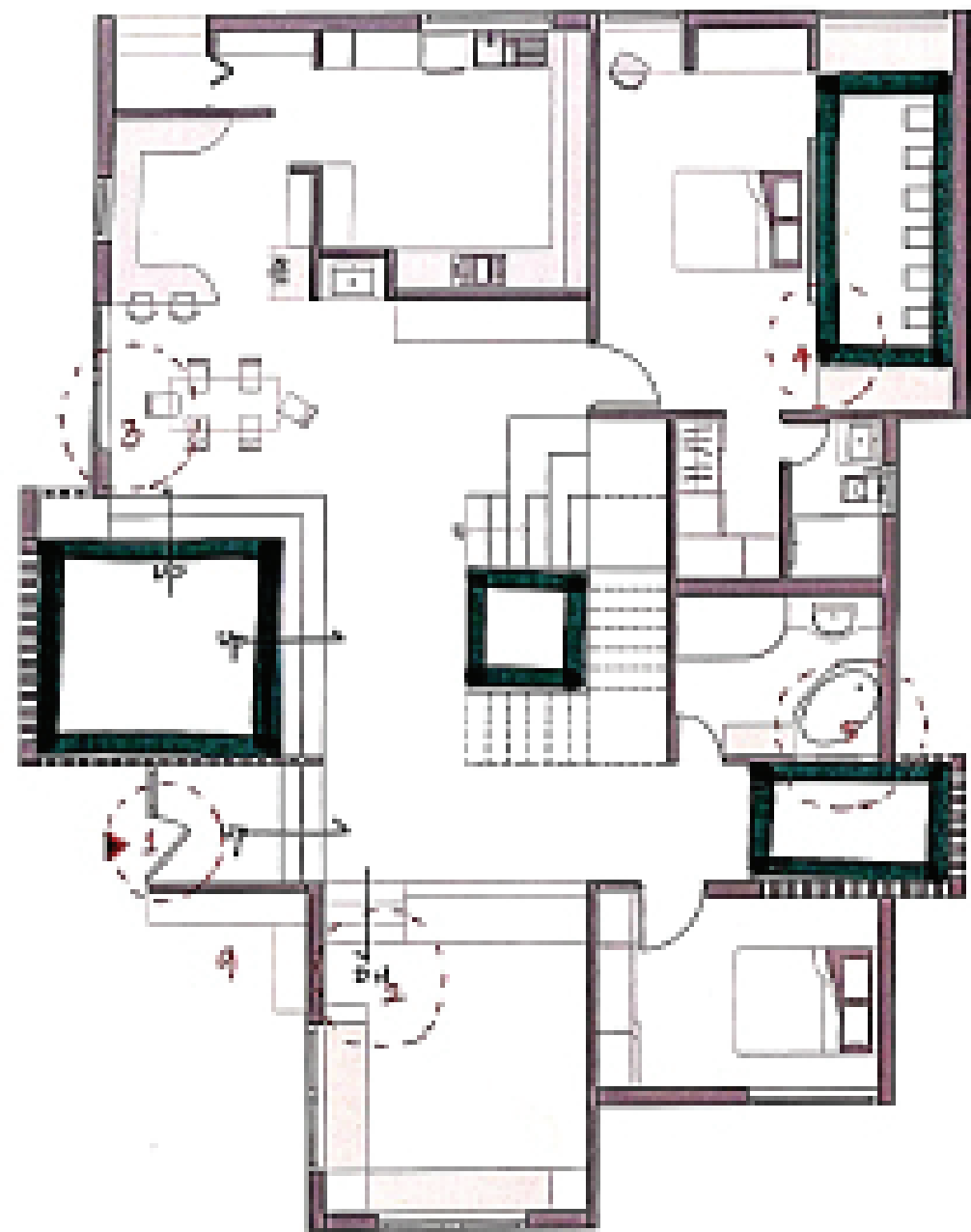


- where to enter something built -> guided path, amidst green
- short plants with L shaped seating
- steps down with a paved door-walk on! through water?
- options: furniture - windows open to see flowering plants at the clipped ledge.

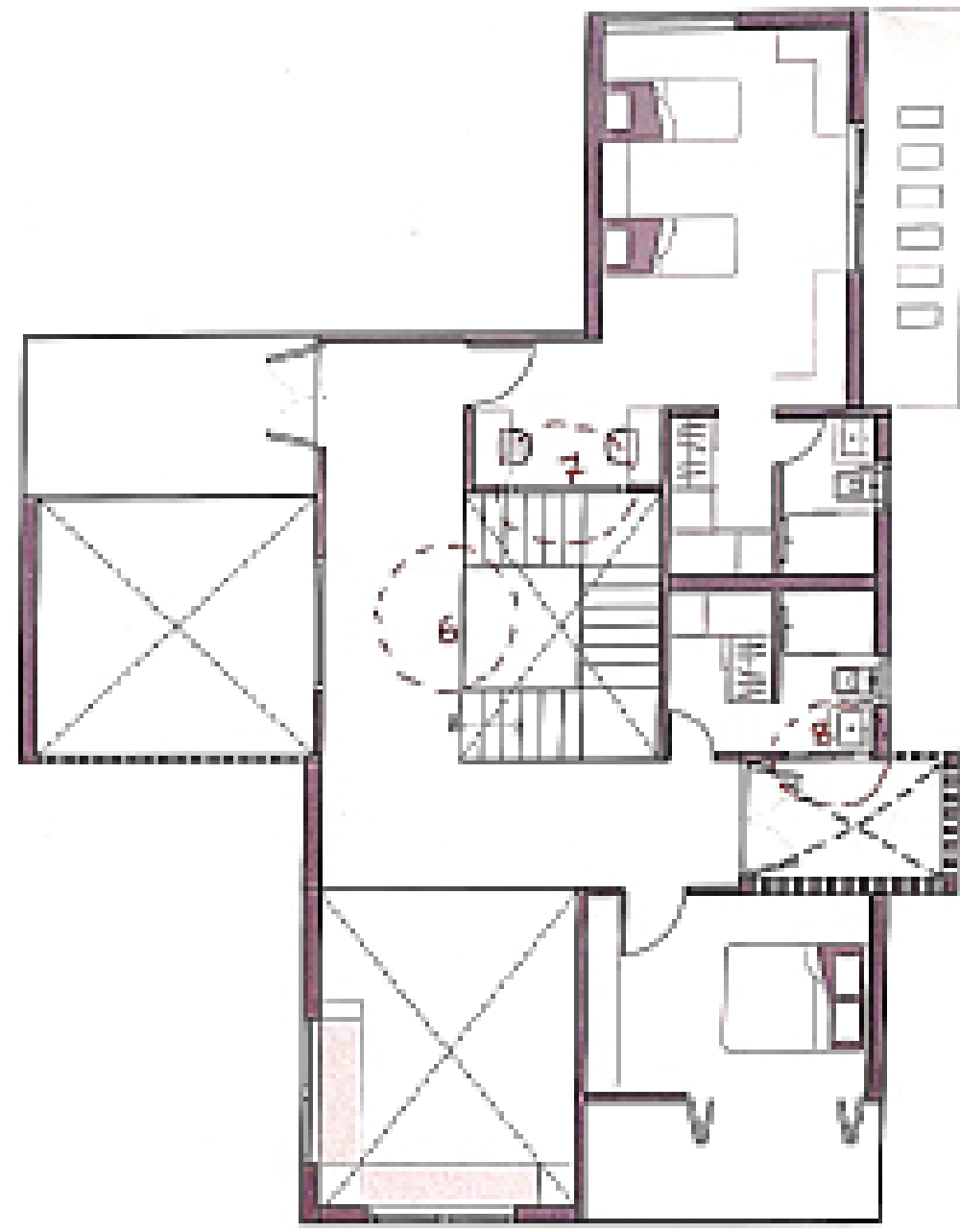


If both stay together, the doors are usually shut, balconies much occupied than living, eating together would be occasional.





GROUND FLOOR



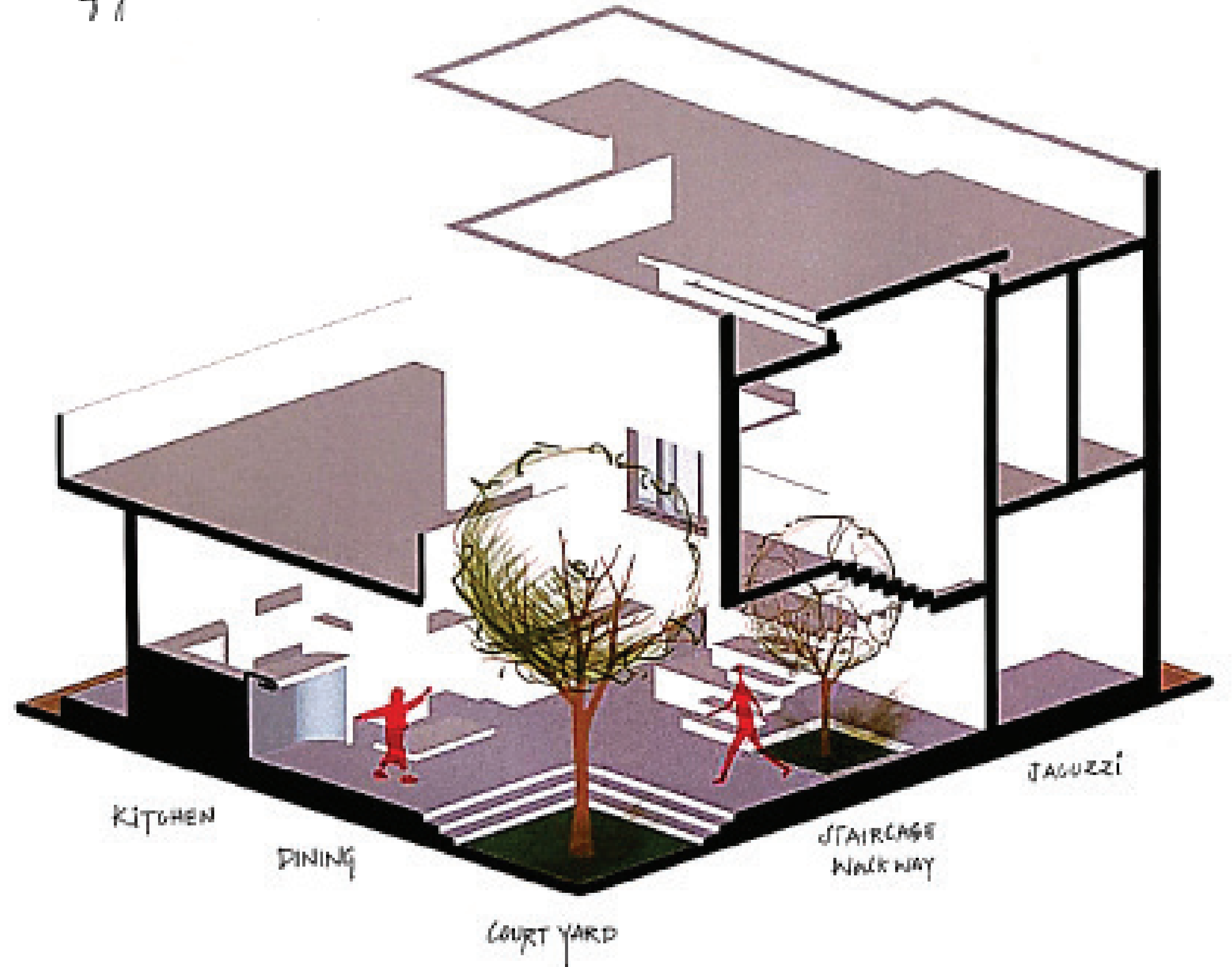
FIRST FLOOR

1. Enter from ground, plinth traps plants after foyer.
2. Lgt down - to the living with fixed seating at openings seen only when seated - - - Kamala house.
3. heard Japanese table?
4. a pocket of green inside room

5. Jacuzzi - Visually connected to green space & hills 8
6. Walkway - bridge b/w 2 spots
7. opening from kids room looking inside the house.
9. Seating outside

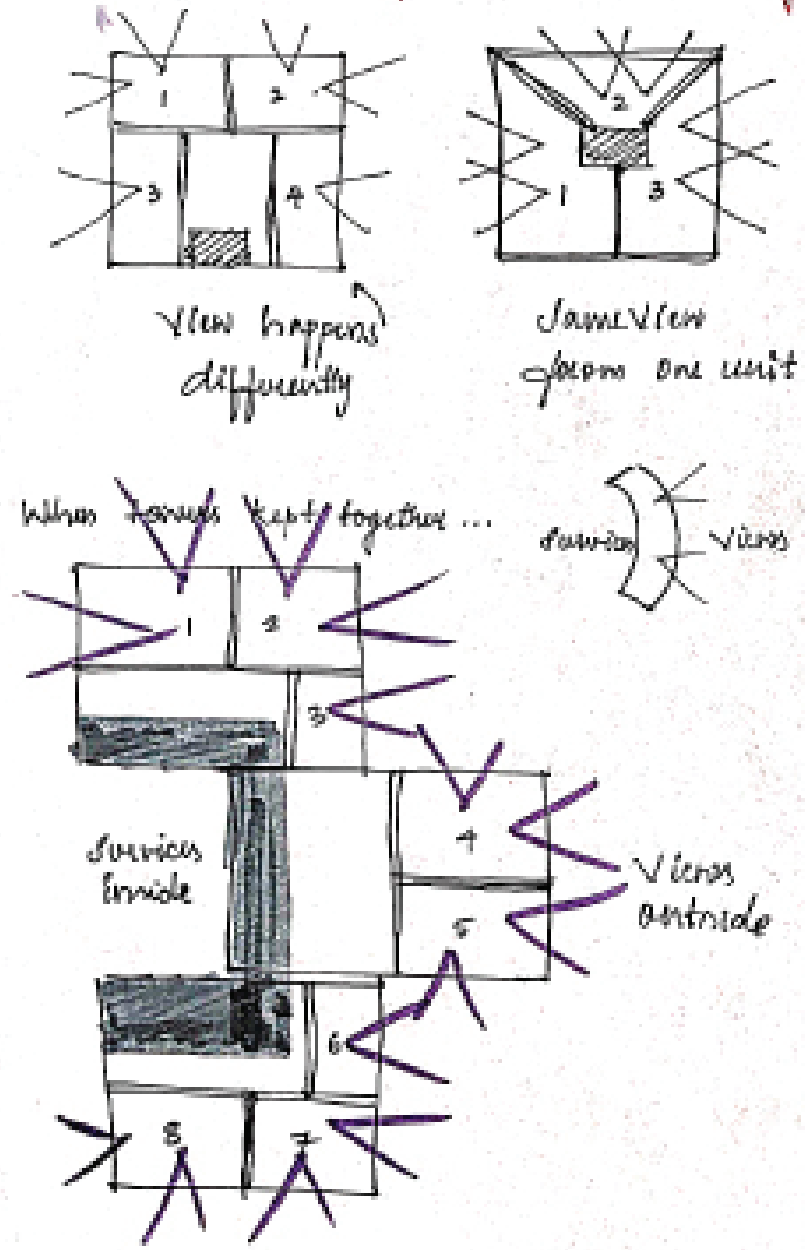
ABOUT NUMBERS -

UNIT - BUA = 260 sqm  
 No of UNITS - 22  
 Total builtup - 5852 sqm  
 Achieved F&I - 0.4

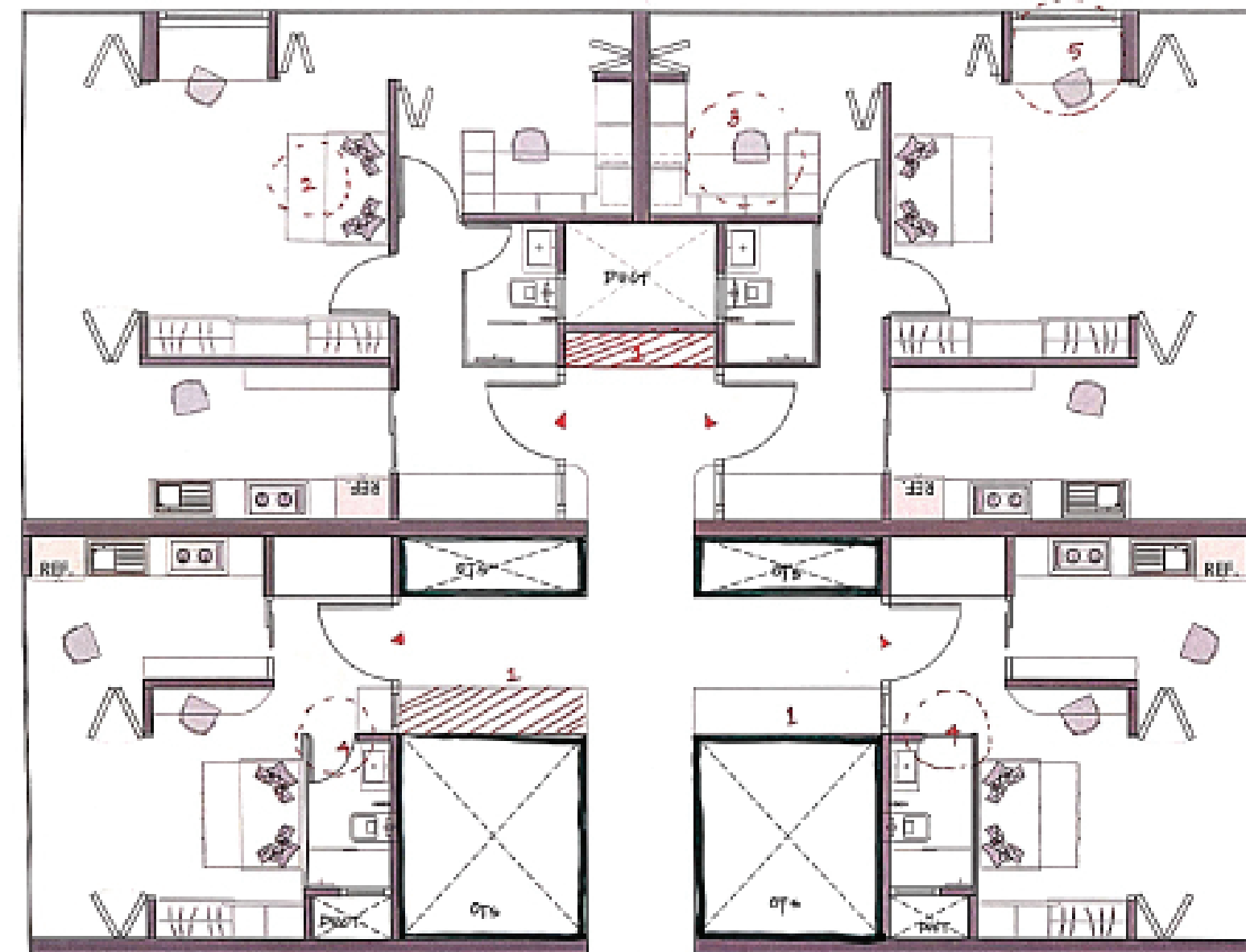
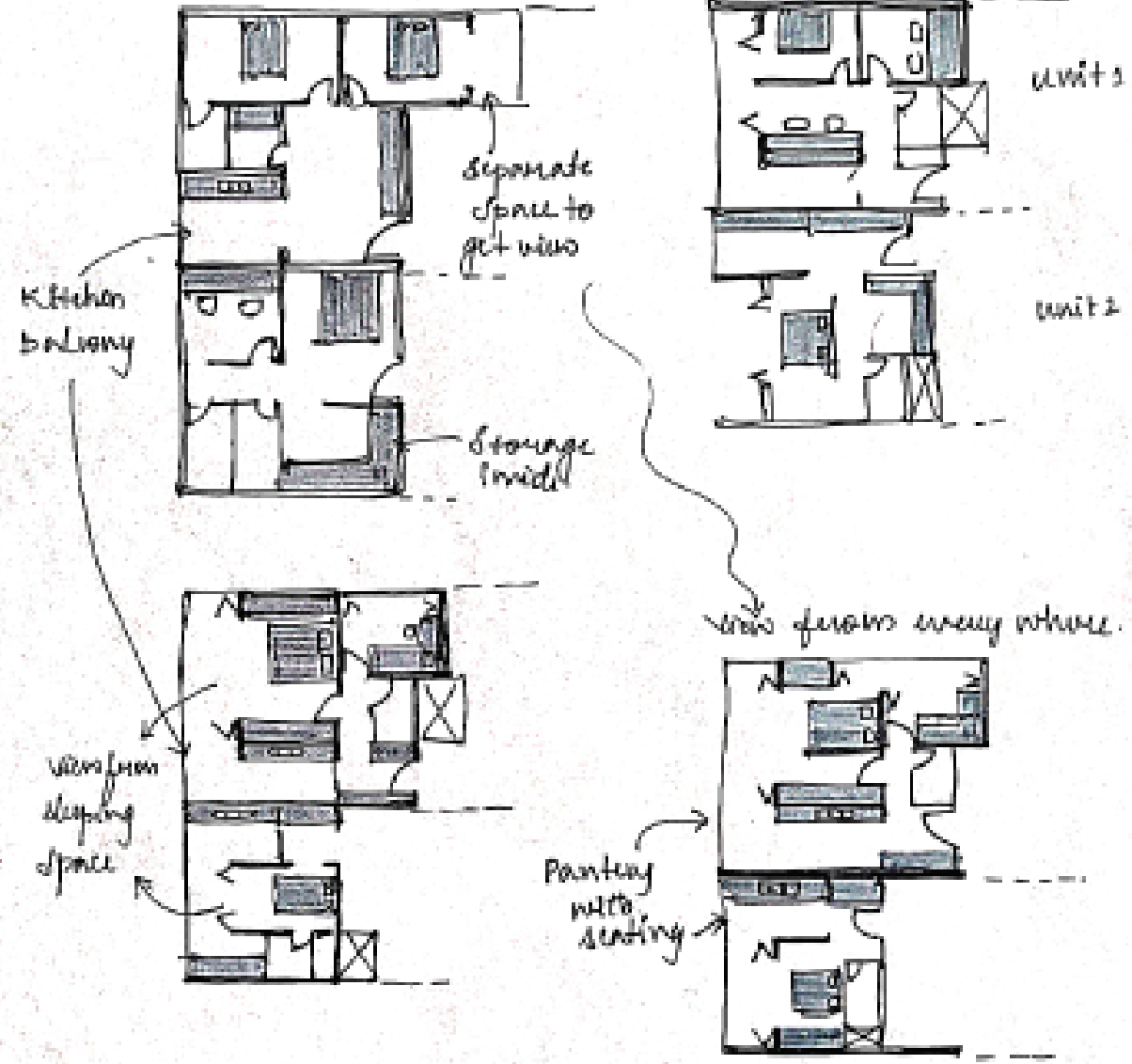




High rise unit with ample views & compact space with privacy

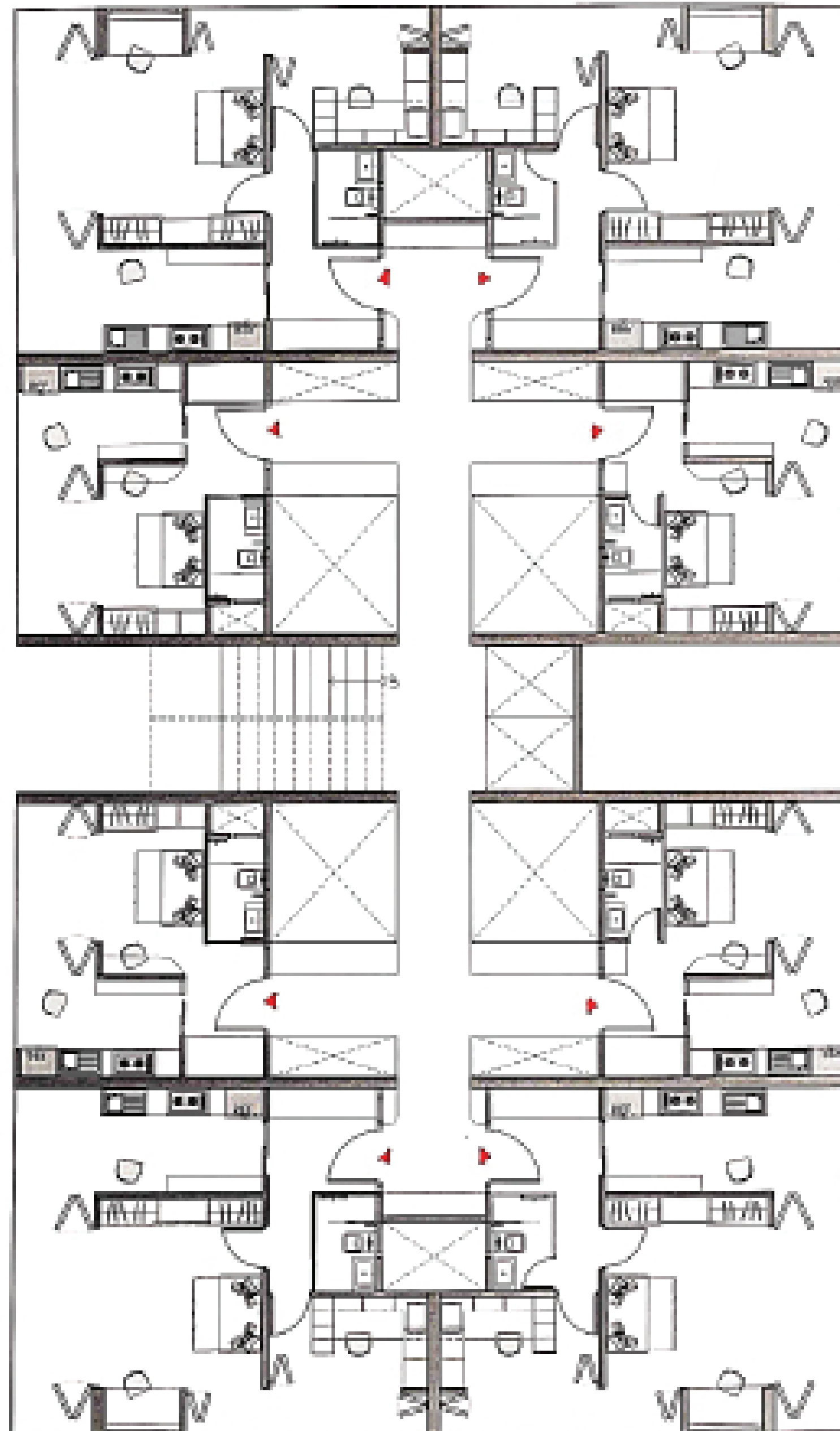


on designing units..



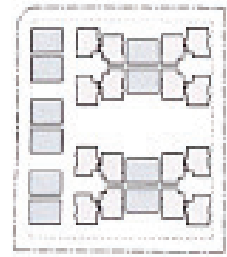
UNIT-A = 30 sq.M ~ 4 Nos in 3 floor ~ 280 Nos  
 UNIT-B = 57 sq.M ~ 4 Nos in 3 floor ~ 260 Nos  
 floor plate area = 440 sq.M  
 (with 4 lobby) 92 sq.M  
 corridor = 44 sq.M  
 13 floors per tower = 5720 sq.M  
 57 units = 28600 sq.M  
 achieved FSI = 1.7

1. Door delivery of groceries, food, anything daily, waste and laundry etc
2. Sofa + Bed when In need.
3. Bunkers with storage + study below
4. Japanese toilets are with frosted glass transparent when open, opm when closed.
5. Isolated / Avg from socializing.

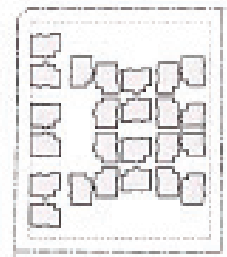




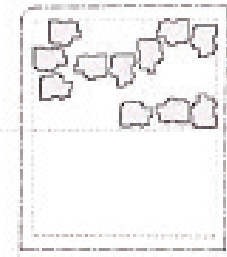
Three ground levels



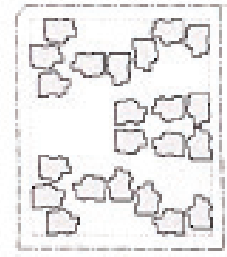
basic grid with net back to main road.



staggering to give common spaces

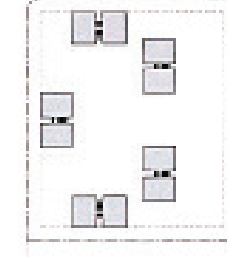


Narrowing along horizontal axis

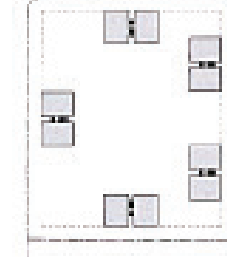


creating more space for accommodating towers.

for skywalk...



Intrusion - to get maximum uninterrupted view from every unit.



avoiding (stealing) balconies applying to the next ones



creating space to live with ground units.



combining - ground & high rise towers



adding open spaces and diffused circulation.

