

URBAN OASIS.





Angela Vignone

SMALL LUXURY PLANS:

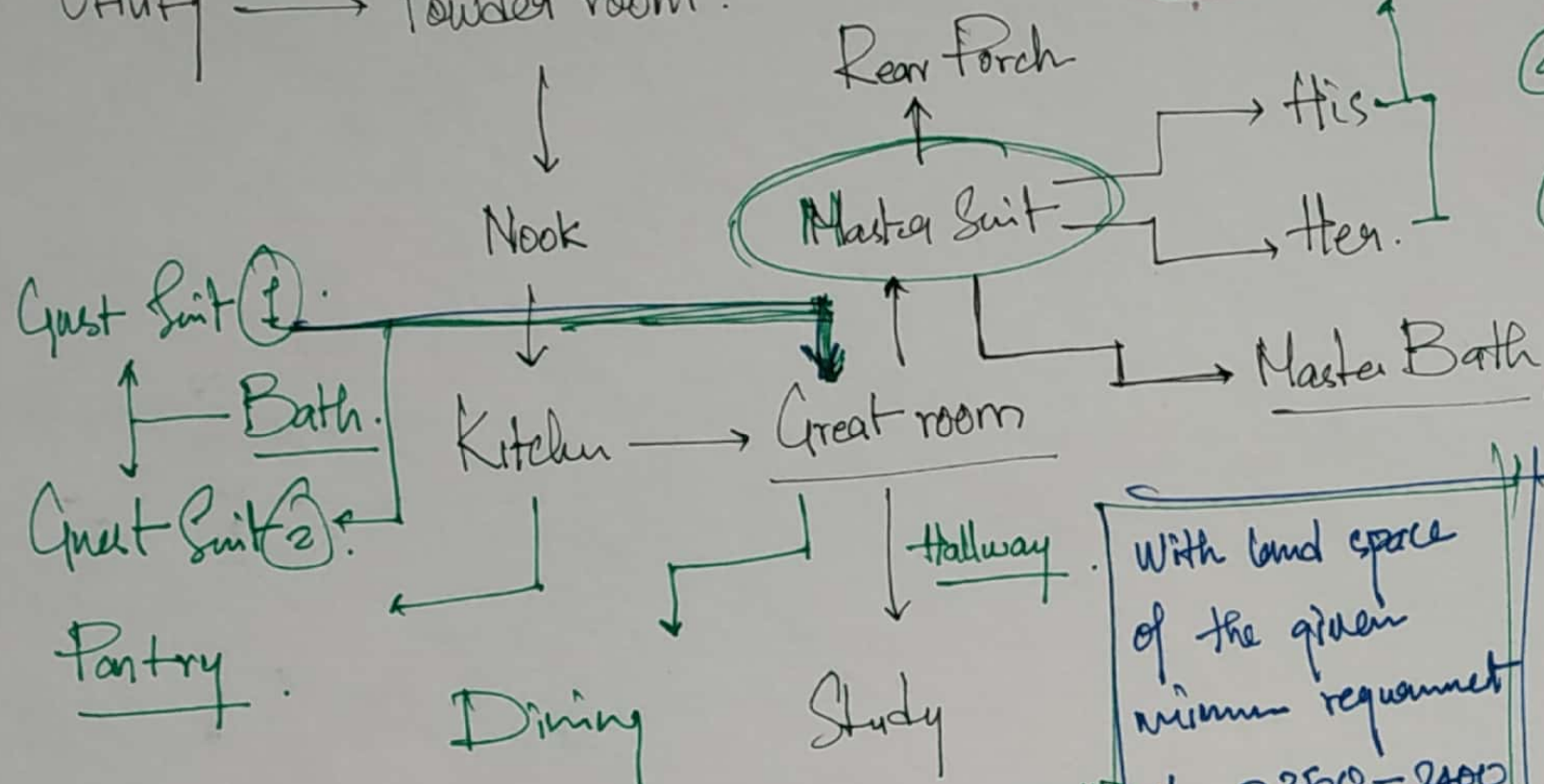
Green Space.

GARAGE → Verandah → Rear Porch.

Utility → Bathroom (common).
Powder room.

Back side.

Walk in Wardrobe.



With land space of the given minimum requirement of 2350-2400 sq ft a small luxury villa.

people needs a place to relax in a villa.

Greenery near the places gives fresh air to breath.

Requirement.

- ① 3 Car Garage — 23 x 33'
- ② Verandah — 12.4 x 22'
- ③ Rear porch — 35.8 x 13'
- ④ Utility — 6' x 9'
- ⑤ Nook — 10.8' x 8.4'
- ⑥ Guest Suit 1 : 12 x 12'
- ⑦ Guest Suit 2 — 12 x 11'
- ⑧ Entry Porch — 33.4 x 8'
- ⑨ Study — 11.10' x 11'
- ⑩ Master Bath — 12' x 11'
- ⑪ Master Suite — 14.8 x 15'
- ⑫ Dining — 11' x 11.4'

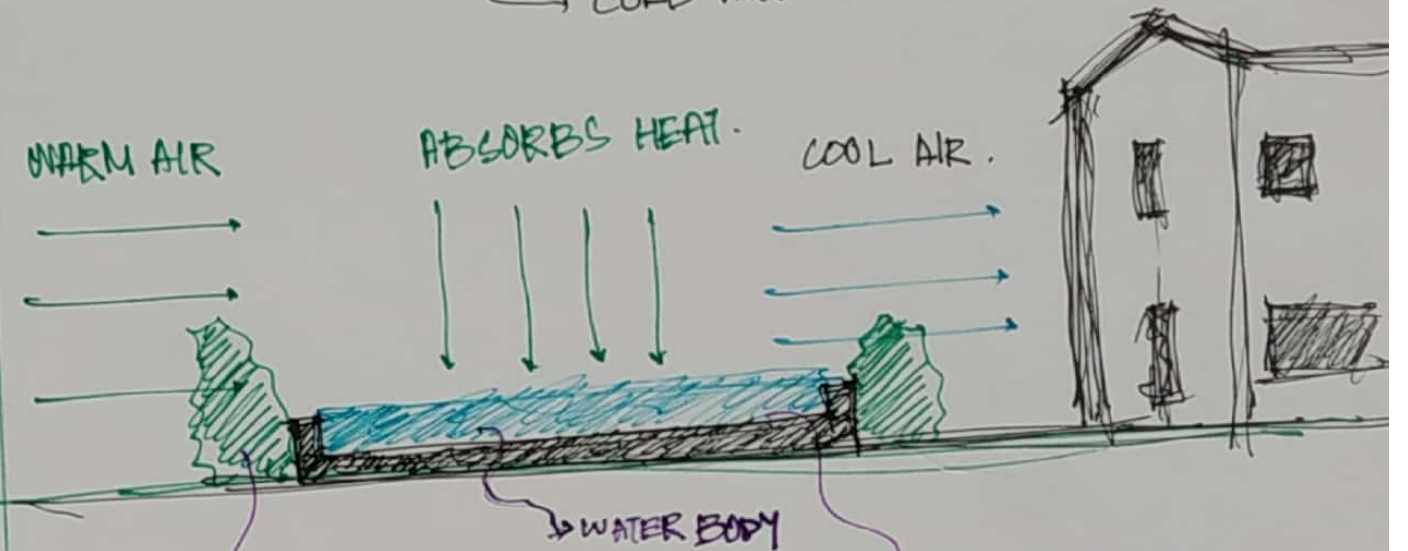
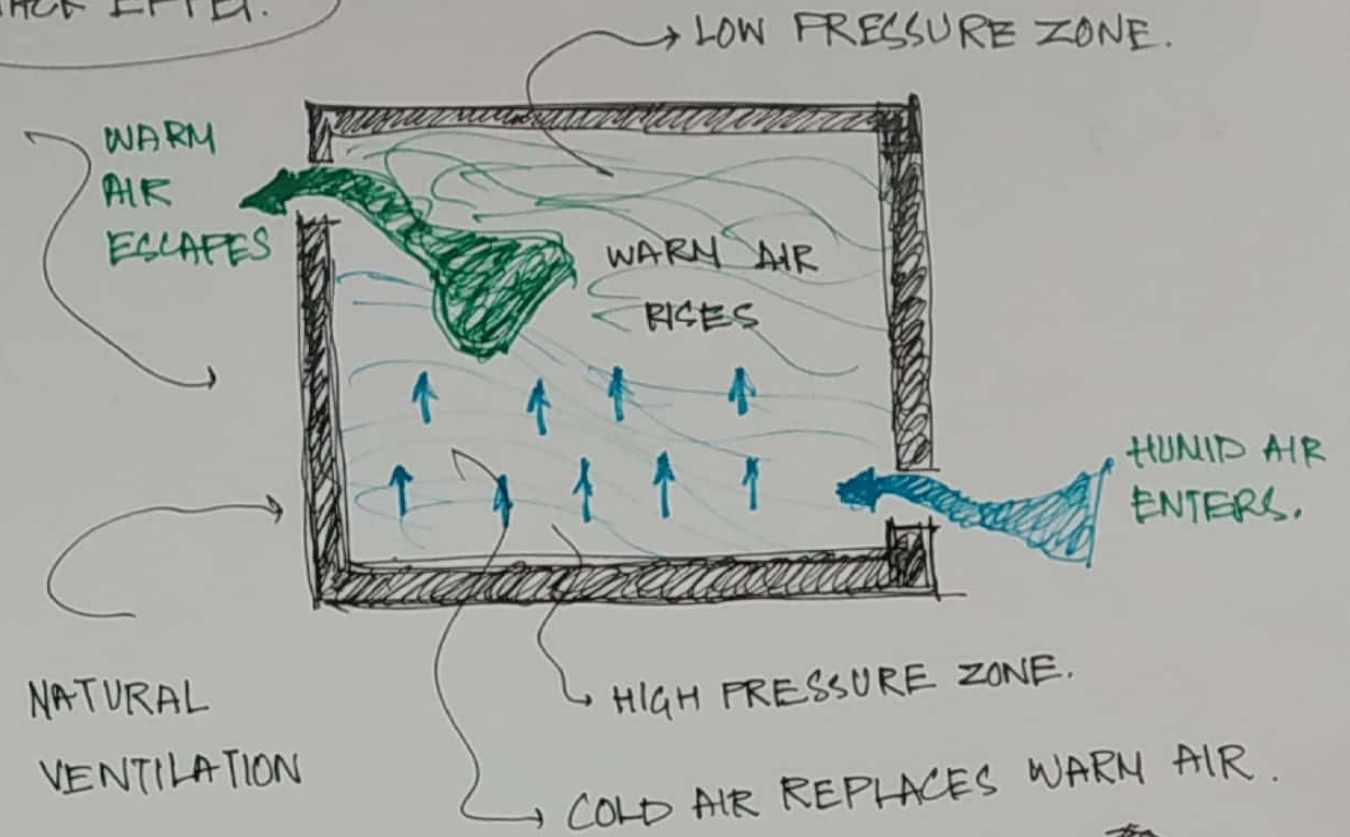
Villas should have privacy.

luxury in space.

Points to think on :

- Bioclimatic ✓
- To learn about Chennai
- Micro and macro climate.
- To make the living anti polluting.
- To think how to avoid pollution in interior
- How to fight with the pollution
- Ways to give comfort.
- Comfortability.
- Materials.
- To provide privacy and nature
- Not just making, just a residence.
- To learn about older materials like red toxic floors, which makes us feel cool.
- Temperature control inside, outside.
- Creating natural environmental experience.
- How body reacts to pollution?
- How to stay away from it?
- Pollution makes us living.
- Effects of plants in interior?
- Effects of water in interior?

STACK EFFECT.



CLEANSING

WATER

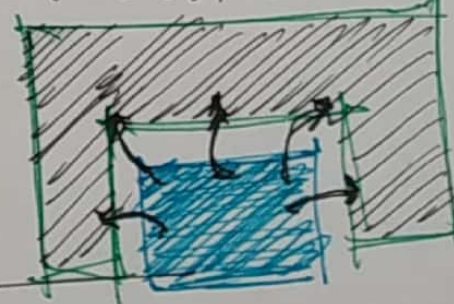
REBIRTH

CALM & SOOTH

SALVATION

ABSORBS HEAT.

GIVES OUT COOL AIR.



CARBON DIOXIDE + WATER $\xrightarrow{\text{LIGHT}}$ CARBOHYDRATES + OXYGEN

LANDSCAPING.
→ SOFTSCAPE
→ HARDSCAPE.

ADVANTAGES OF PLANTS:

- REDUCING LEVEL OF CO_2 .
- REDUCES BACKGROUND NOISE.

- PLANTS ABSORB.
- PLANTS REFLECT.
- REFRACT SOUND.
- WTS DOWN NOISE.

→ COOLING A BUILDING.

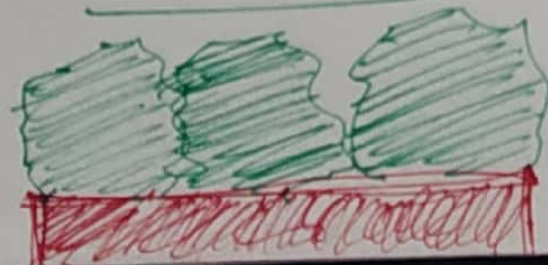
→ SHADING.

→ TRANSPIRATION REDUCE
INDOOR AIR QUALITY AND
TEMPERATURES.

→ REDUCES LOADS OF AC SYSTEM.



STRESS REDUCTION.

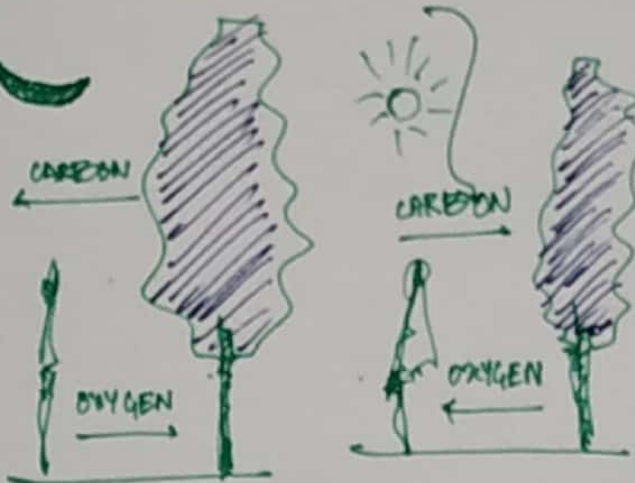


HEALTH

WELL BEING.

WOOD

STONE



REDUCE ENERGY COST.

SLOW GROWTH.

LOW WATER REQ.

INDOOR PLANT

INCREASE PRODUCTIVITY AND PROFITABILITY.

POOR AIR QUALITY.

OVERCOMES SICK BUILDING SYNDROME.

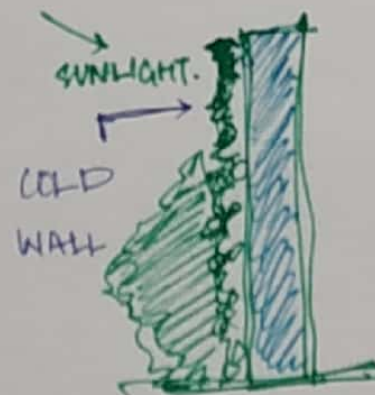
→ ITCHINESS

→ DRY SKINS.

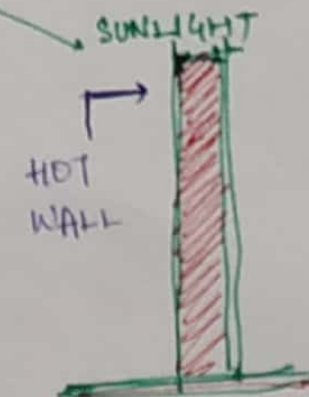
→ EYE, THROAT IRRITATION.

→ HEADACHES

→ NAUSEA.



WITH PLANTS

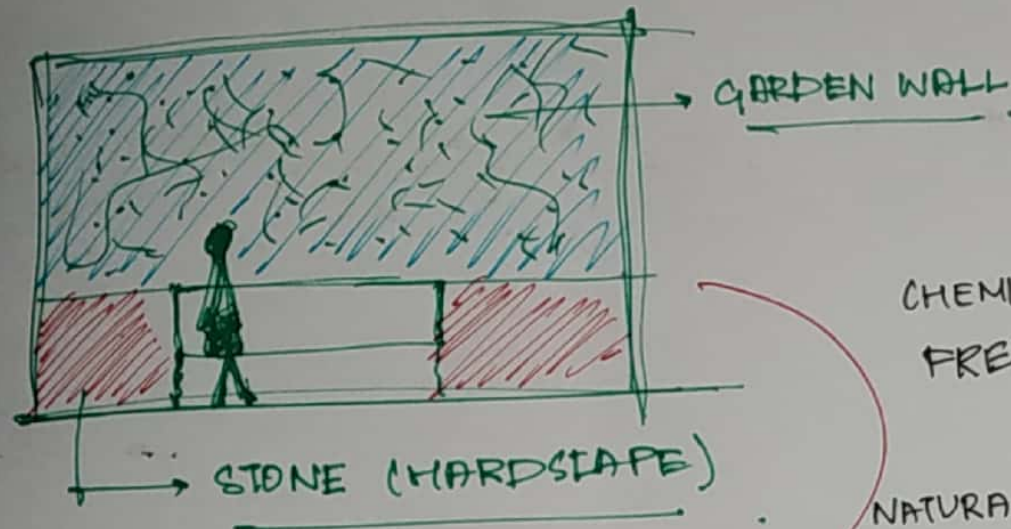


WITHOUT PLANT.

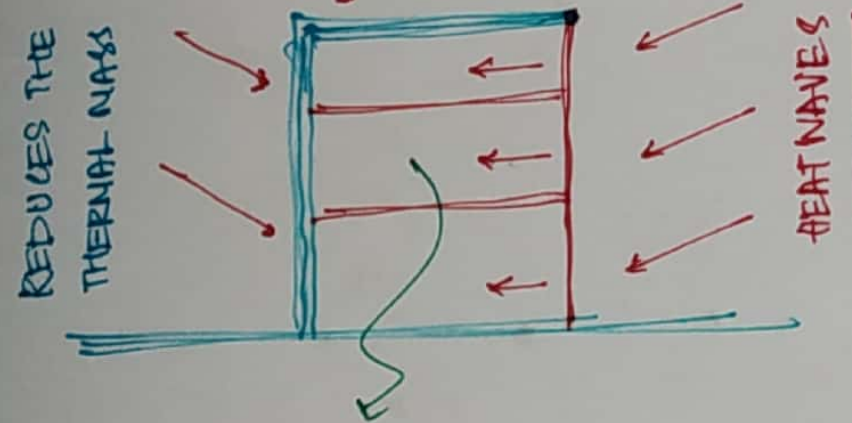
CAUSED BY:

- VOLATILE ORGANIC COMPOUND
- MOULDS
- SPORES
- POOR VENTILATION.
- ADJUSTED TEMPERATURE

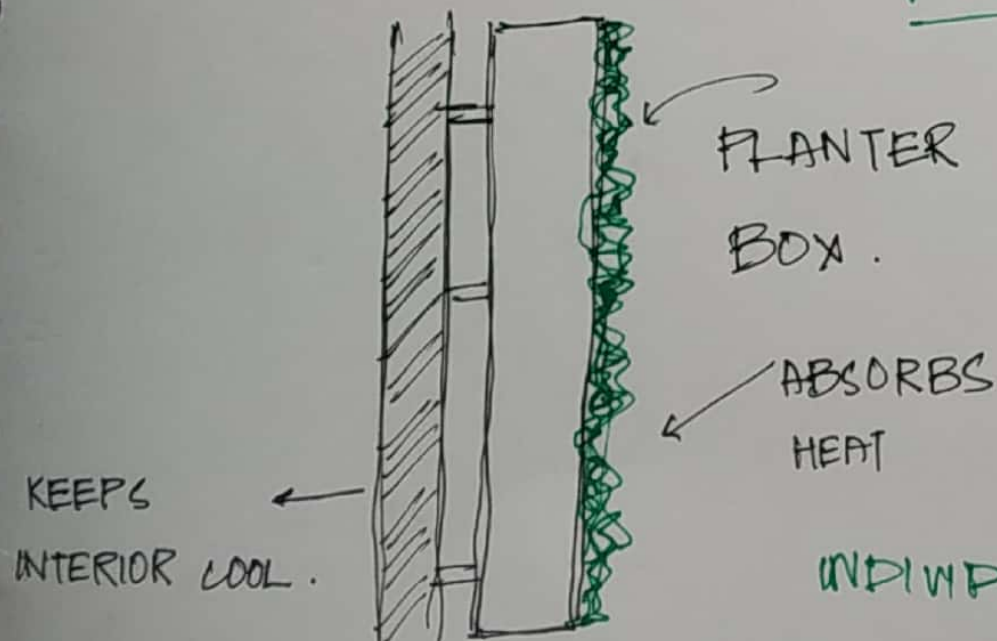
VERTICAL GARDEN WALL:



COOLS THE EXTERIOR



BRINGS DOWN THE INTERIOR TEMPERATURE.



PLANT



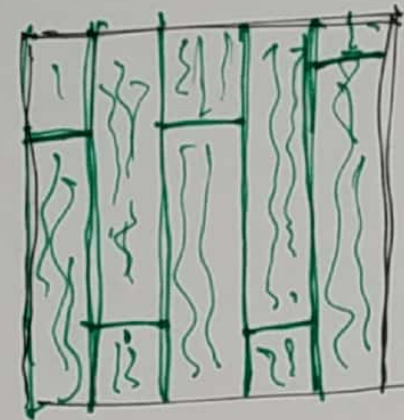
INDIVIDUAL BOARDS.

BIO TILE

CHEMICAL FREE.

NATURAL ADHESIVES.

MADE USING NATURAL PROCESS



BAMBOO FLOORING.

ECO-FRIENDLY

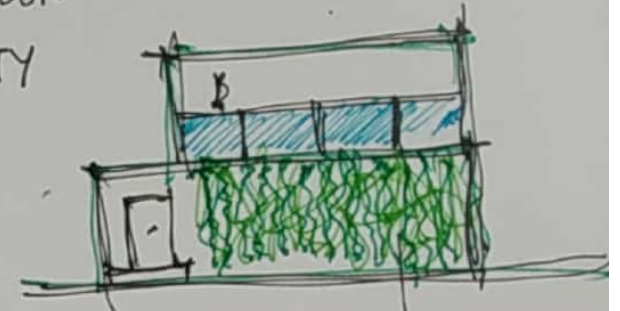
100% ENERGY EFFICIENT.

CARPET + TILE.

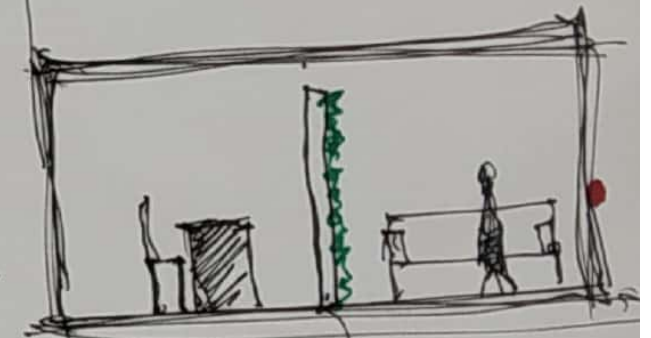
AFFECT INDOOR AIR QUALITY

REMOVES VOLATILE ORGANIC COMPOUNDS.

MAKES ENERGETIC



CREEPER ARE USED TO MAKE WALL COOLER.

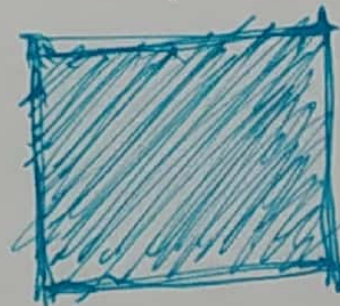


GREEN WALL ALSO CAN ACT AS PARTITION BETWEEN SPACES

WATER BODY.



STONE + GRASS PAVEMENT.



COOLING COMFORT.

HUMAN ATTRACT TOWARD REFLECTIVE SURFACE

WHY?

Man himself should be considered another source of indoor pollution, especially when living in a closed, poorly ventilated area. At times people have misconceived that a healthy lifestyle is gained only through physical well-being, rather mental well-being is equally important. So in order to make a living comfortable in this concrete jungle green architecture and many other techniques can be used. Plants help us to save us from the effects of harmful indoor chemicals like benzene, Trichloroethylene and Formaldehyde.

Which?

There are plants which are kept outside the house and certain plants are kept inside the house which are called indoor plants. The selection of these plants can vary depending upon that area condition and it can also vary with one's choice and also depends on the availability of light.

When?

As indoor pollution has increased and people are getting affected by it, it is high time that the world should have the education about how plants can overcome this indoor pollution by taking some serious measures. These plants help to control the temperature inside the building and also produce fresh oxygen for living. When the pollution outside the house has increased so it's our duty to take small steps in order to overcome that situation by using plants, which have great benefits.

WHO?

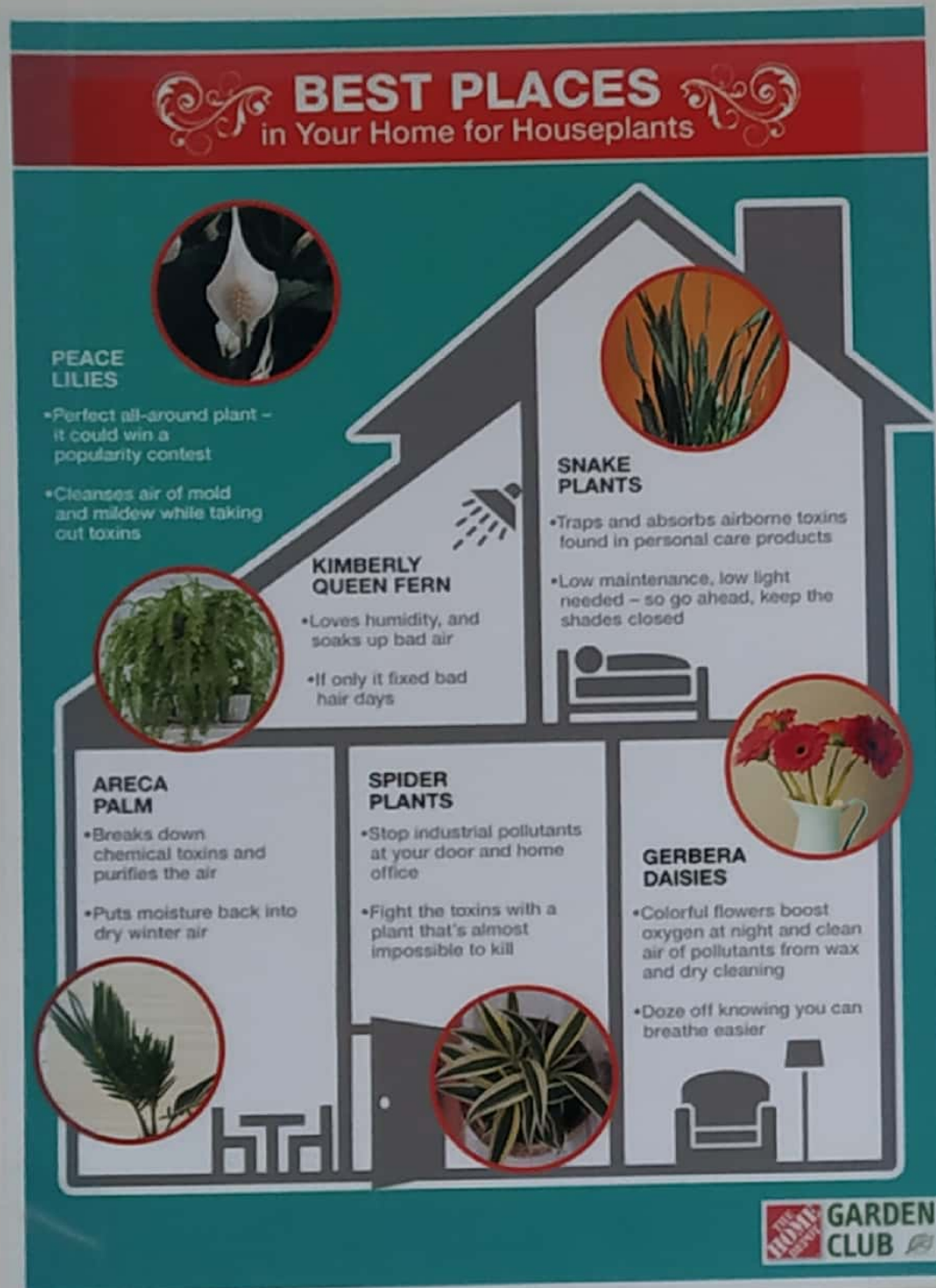
In order to get a better and peaceful living, landscaping is beneficial for all age group from kids to adults. As these plants increase productivity and increase concentration. They help us to improve problem solving skills, ideation and creative performance by removing out the poor air quality from the house and creating a better living atmosphere. Hence, plants enhance people of every age group.

WHERE?

As all new buildings or remodeled buildings have varying degrees of indoor pollution it is necessary to create a micro climate inside the building in order to stay away from the harmful effects of the increasing pollution. As people are confining themselves in small spaces due to increase in the population by which they are not able to get a better living. Plants enhance the interiors of our buildings and contribute to the psychological well-being of people. As pollution absorbers, plants improve our general health.

How?

These plants can be placed inside the house where they get adequate amount of light, controlled temperature, humidity and air quality as required by the plants. Suitable planting medium to grow. And also maintaining the water required by the plants. If all of the above elements falls in place, plants can do their work of cleaning the air in a better way and provide and fresh oxygen and can remove the sick syndromes from our houses.



Personal Space

Natural Environment

Health

Peace

Humidity

Comfortability

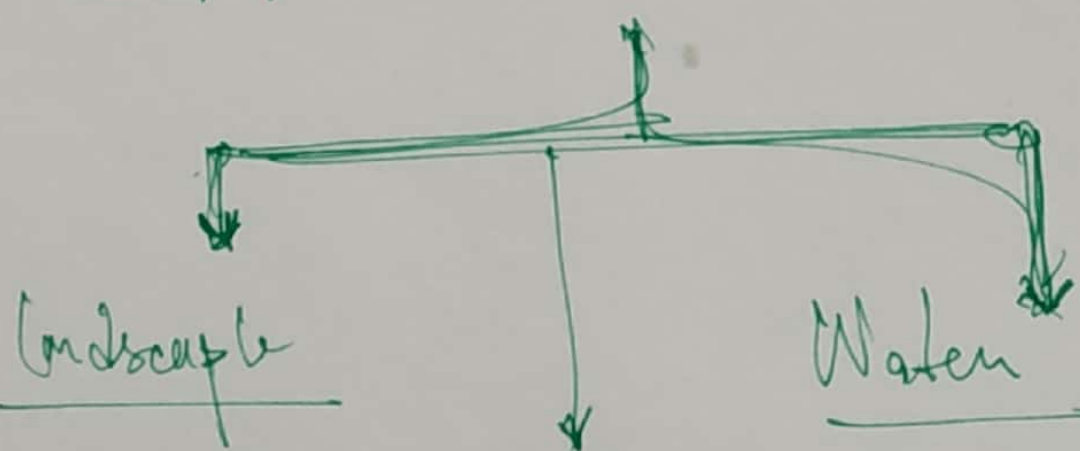
Temperature

Terace gardening

Coherence

Homey feeling

Bringing outdoor indoor Environment

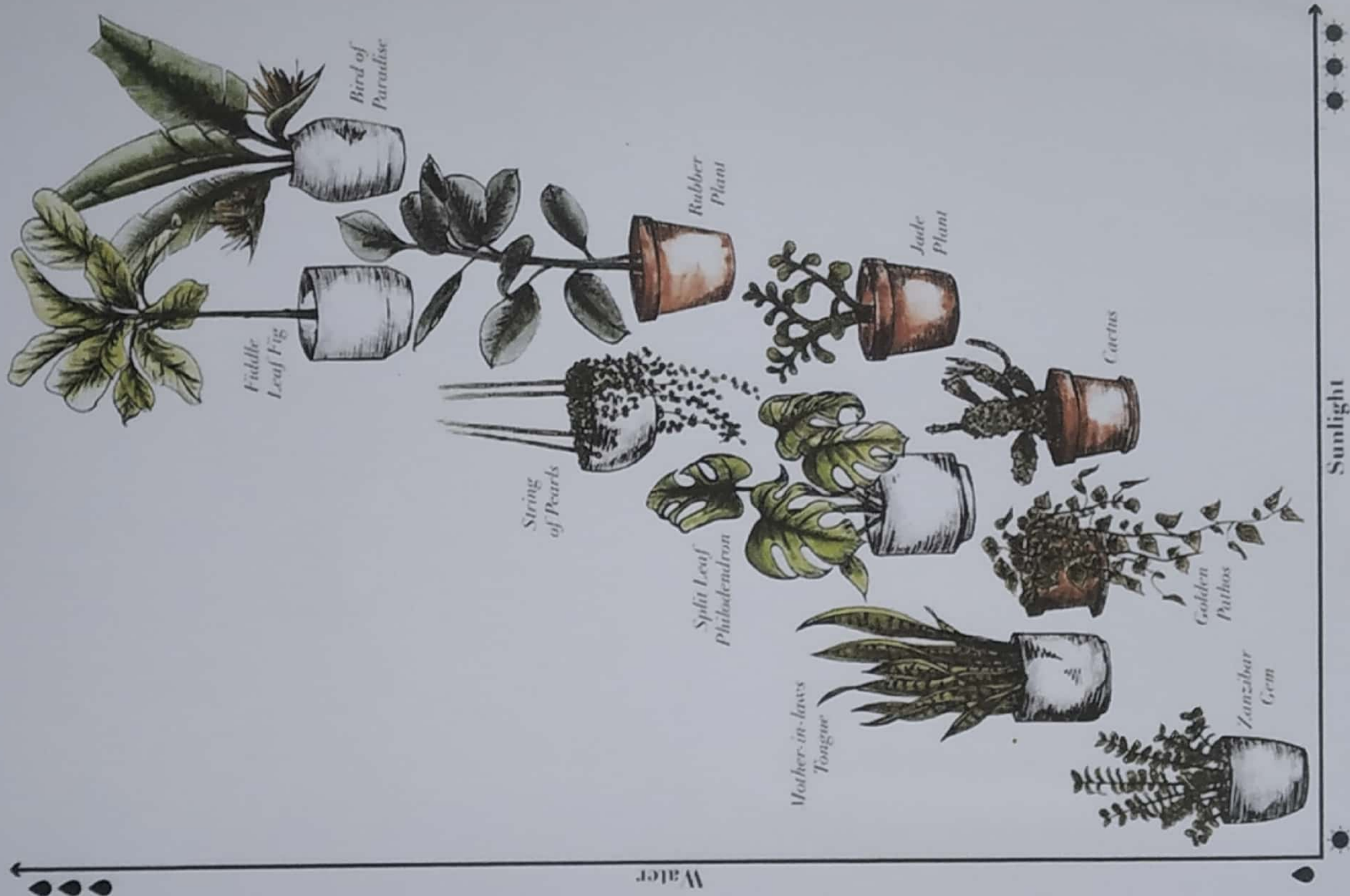


Natural material

EFFECT OF PLANTS ON HUMANS. —

5 PRO
ERA

a pair & a spare
**A QUICK GUIDE TO:
FINDING THE PERFECT
INDOOR PLANT**








ABOUT PLANTS.

AIR-FILTERING PLANTS

 DWARF DATE PALM <i>Phoenix roebelinii</i>	 BOSTON FERN <i>Nephrolepis exaltata</i>	 KIMBERLEY QUEEN FERN <i>Nephrolepis obliquata</i>	 SPIDER PLANT <i>Chlorophytum comosum</i>	 CHINESE EVERGREEN <i>Azlaema modestum</i>
 BAMBOO PALM <i>Chamaedorea seifrizii</i>	 WEeping FIG <i>Ficus benjamina</i>	 DEVIL'S IVY <i>Epipremnum aureum</i>	 FLAMINGO LILY <i>Anthurium andraeanum</i>	 LILYTURF <i>Liriope spicata</i>
 BROADLEAF LADY PALM <i>Rhapis excelsa</i>	 BARBERTON DAISY <i>Gerbera jamesonii</i>	 CORNSTALK DRACAENA <i>Dracaena fragrans 'Massangeana'</i>	 ENGLISH IVY <i>Hedera helix</i>	 VARIGATED SNAKE PLANT <i>Sansevieria trifasciata 'Laurentii'</i>

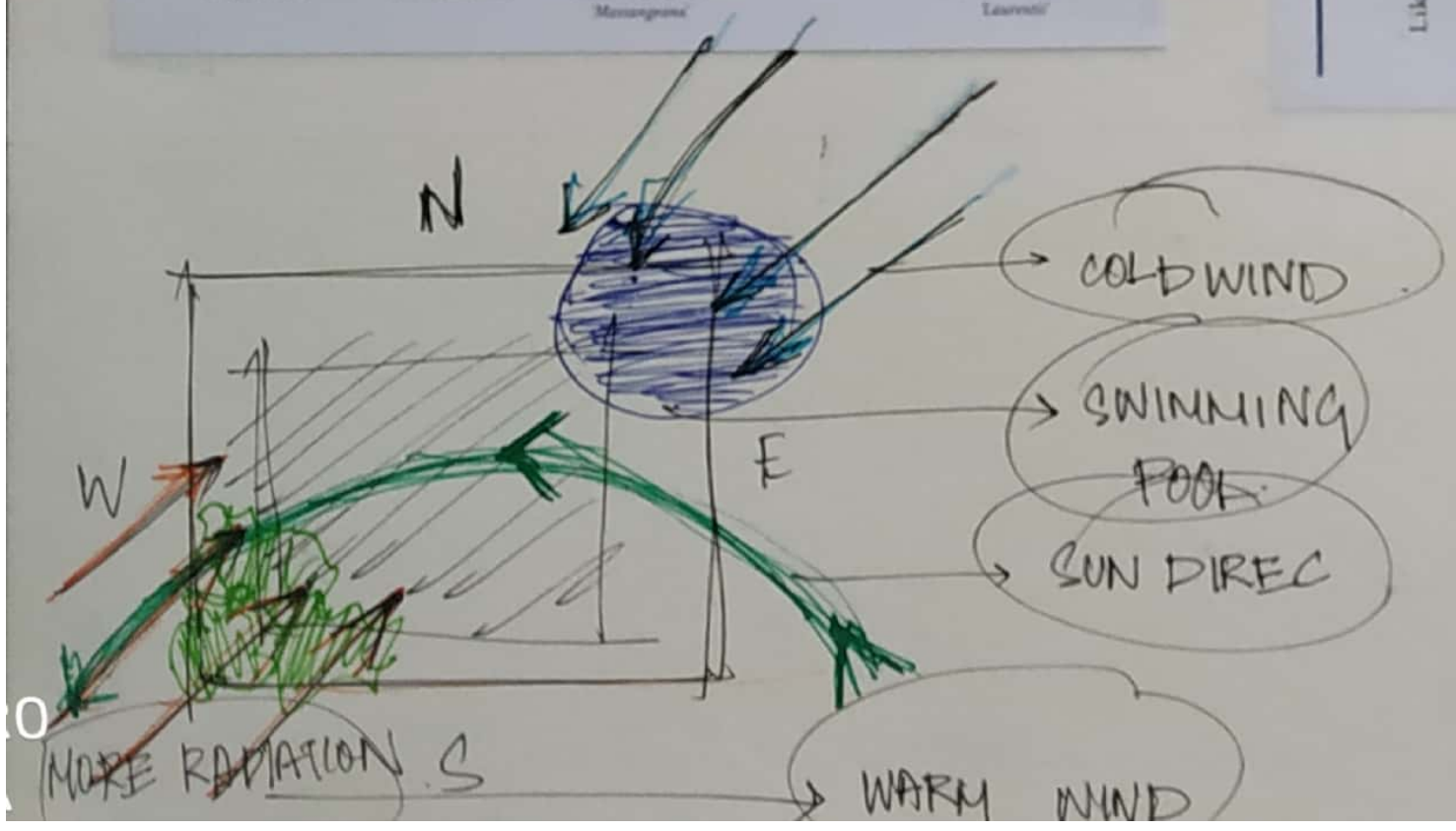
WHAT ARE THE EFFECTS ON HUMANS?

Like most chemicals, the adverse health effects you may encounter depend on several factors, including the amount to which you are exposed, the way you are exposed, the duration of exposure and the form of the chemical. Below are common symptoms associated with each toxic agent.

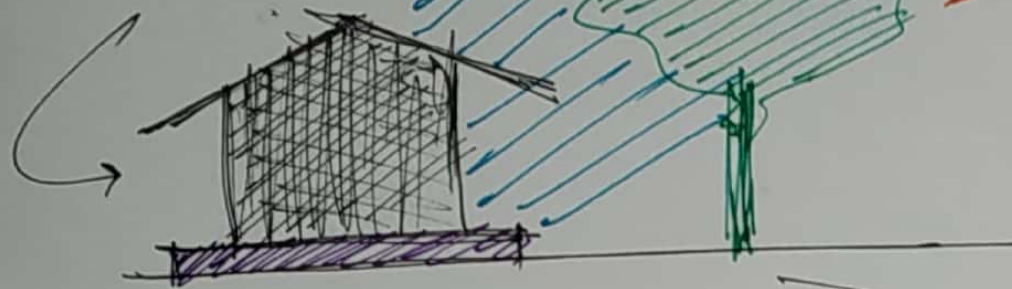
	XYLENE Symptoms associated with short term exposure include irritation to mouth and throat, dizziness, headache, confusion, heart problems, liver and kidney damage and coma.
	AMMONIA Symptoms associated with short term exposure include eye irritation, coughing and sore throat.
	TRICHLOROETHYLENE Symptoms associated with short term exposure include excitement, dizziness, headache, nausea and vomiting followed by drowsiness and coma.
	FORMALDEHYDE Symptoms associated with short term exposure include irritation to nose, mouth and throat, and in severe cases, swelling of the larynx and lungs.
	BENZENE Symptoms associated with short term exposure include irritation to eyes, drowsiness, dizziness, increase in heart rate, headache, confusion and in some cases can result in unconsciousness.

PLEASE NOTE

Several of these plants are known to be toxic to cats, dogs and other pets. If you are a pet owner, please do check the toxicity of plants before introducing them to your home.

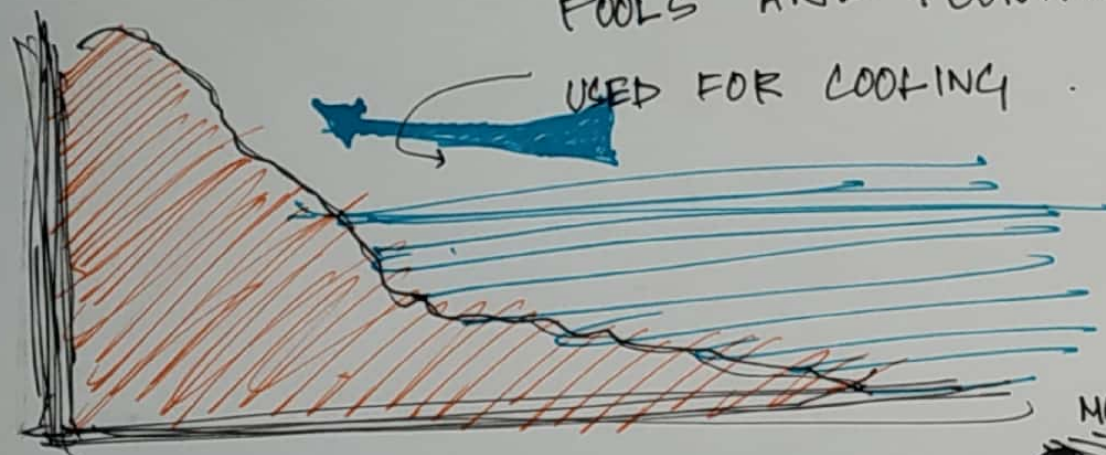


DECIDUOUS TREES PROVIDE SHADE IN SUMMER AND ALLOW SUNLIGHT IN WINTER.



TREE SHADES GROUND, HENCE SURROUNDING AMBIENT TEMPERATURE IS REDUCED.

EFFECTS OF SHADING



POOLS AND FOUNTAINS USED FOR COOLING.

EVAPORATION OF WATER REDUCE TEMPERATURE OF AMBIENT AIR.

EFFECTS OF WATER BODY

EXTERNAL EFFECTS.

SOLAR RADIATION MORE (NOON)

SOLAR RADIATION LESS (EVEN)

HORIZONTAL ROOF AT NOON RECEIVES MAXIMUM RADIATION.

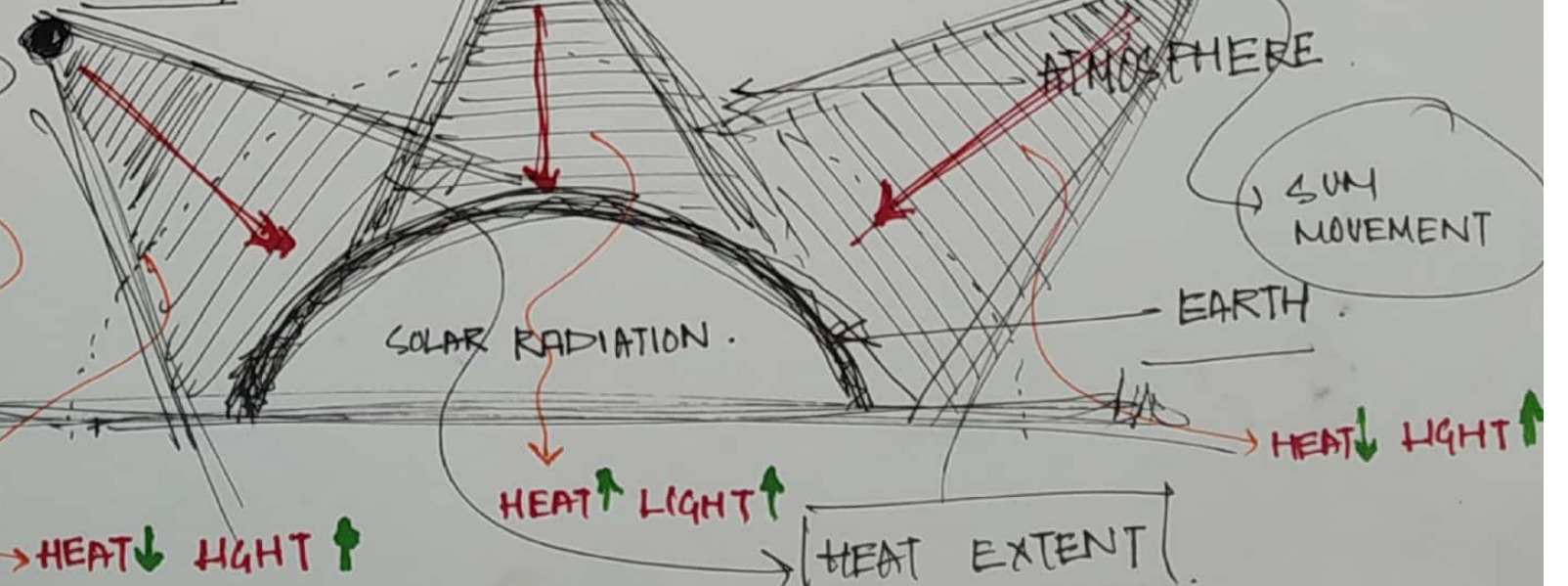
MAXIMUM RADIATION IN EVENING

EFFECT OF TIME

MORNING

MAXIMUM (12:00)

MINIMUM (4:00)



TECHNIQUES.-

WALLS, GLASS SURFACES PROTECTED BY OVERHANGS, FINES, TREES

ROOF INSULATION AND WALL INSULATION.

ORIENTATION OF BUILDING.

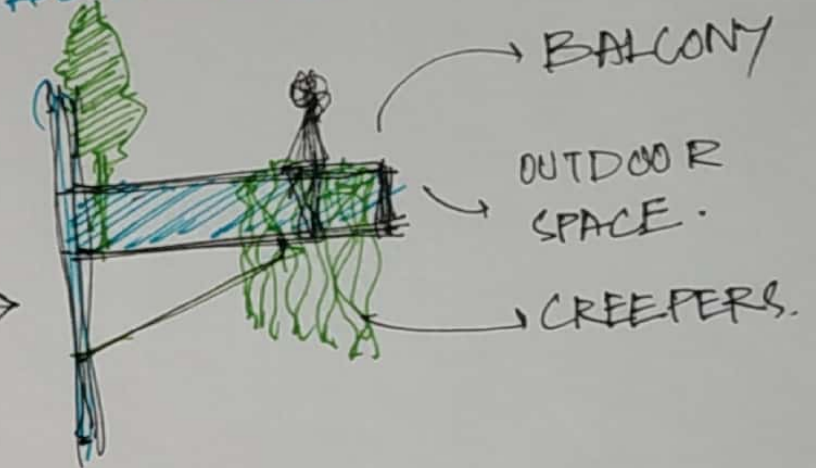
BALCONIES AND VERENDAH.

REFLECTIVE SURFACE OF ROOFS.

REDUCE HEAT GAIN:

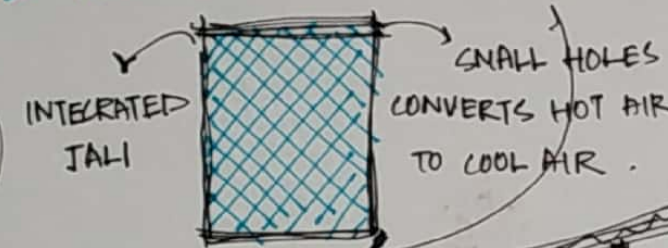
- DECREASE EXPOSED SURFACE.
- INCREASE THERMAL RESISTANCE
- INCREASE BUFFER SPACES
- INCREASE SHADING.
- INCREASE SURFACE REFLECTIVITY

WARM AND HUMID CHENNAI

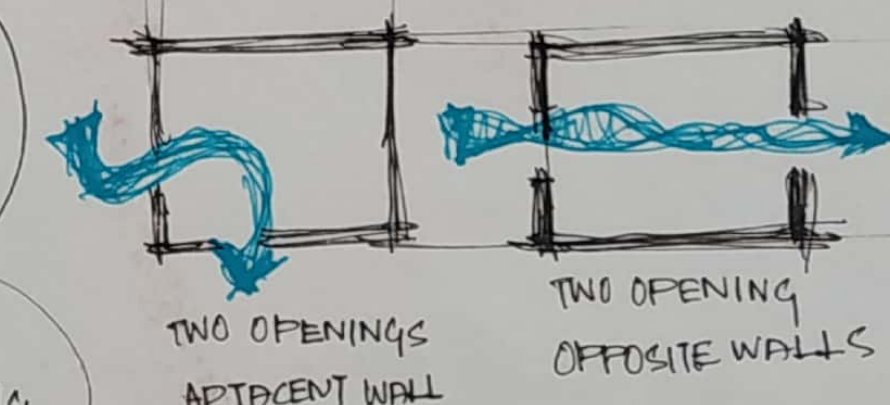
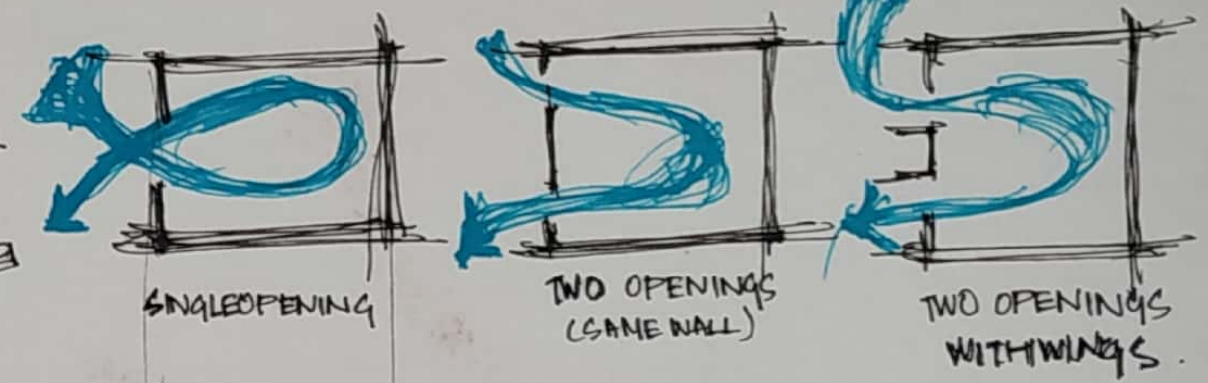
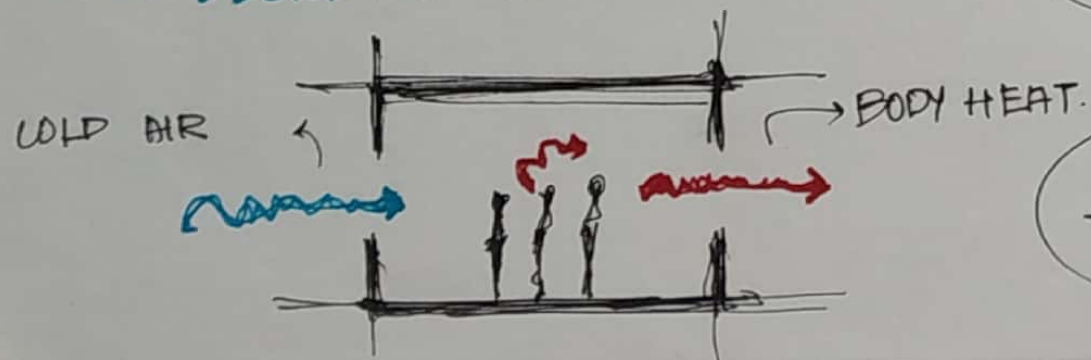


PROMOTE HEAT LOSS

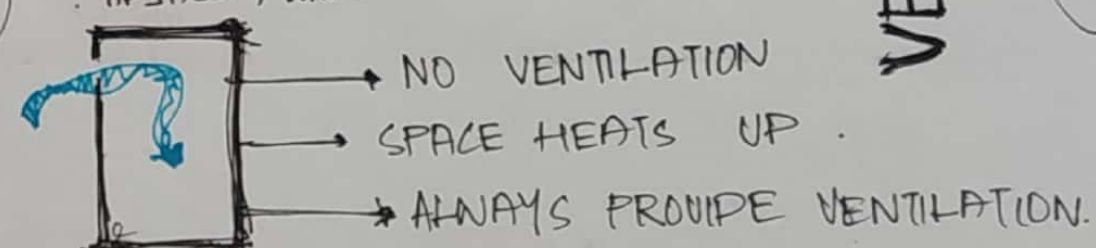
- VENTILATION OF APPLIANCES
- INCREASE AIR EXCHANGE RATE (VENTILATION THROUGHOUT THE DAY)
- DECREASE HUMIDITY LEVELS.



HOT → COLD



VENTILATION TYPES...



SITE ANALYSIS.—

NEAR BY : HOSPITAL SANTOSH (850 m)

THEARE S2 THYAG (1.4 Km)

YANNATHURAI BUS STOP (550m)

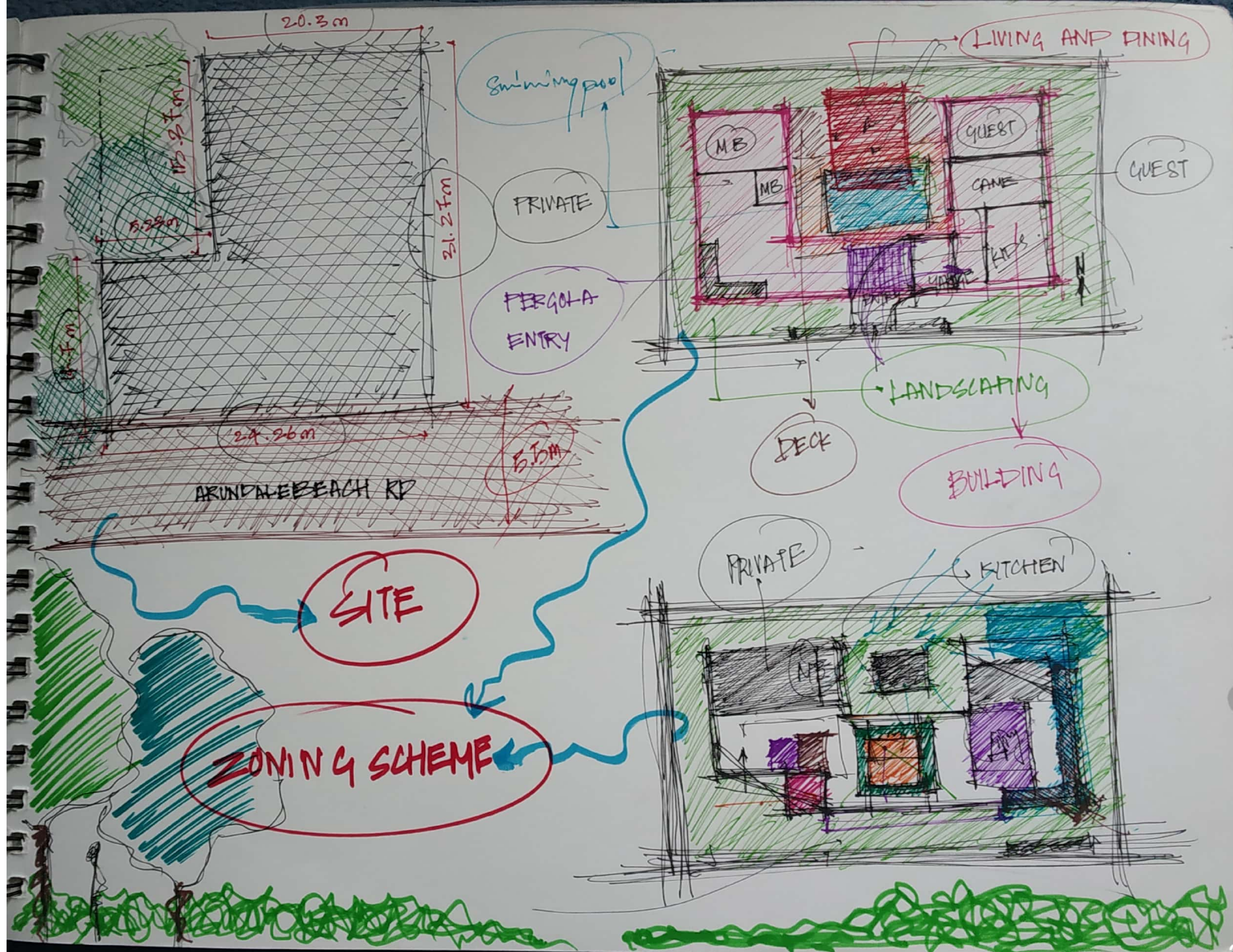
NORTEAST WINDS (COLD)



BESANT NAGAR, CHENNAI-90

ARINDALE BEACH ROAD.

SOUTHEAST WINDS (WARM)



ZONING

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Date : _____
Follow up : _____
Project : _____
Title : _____
Drawing No. : _____

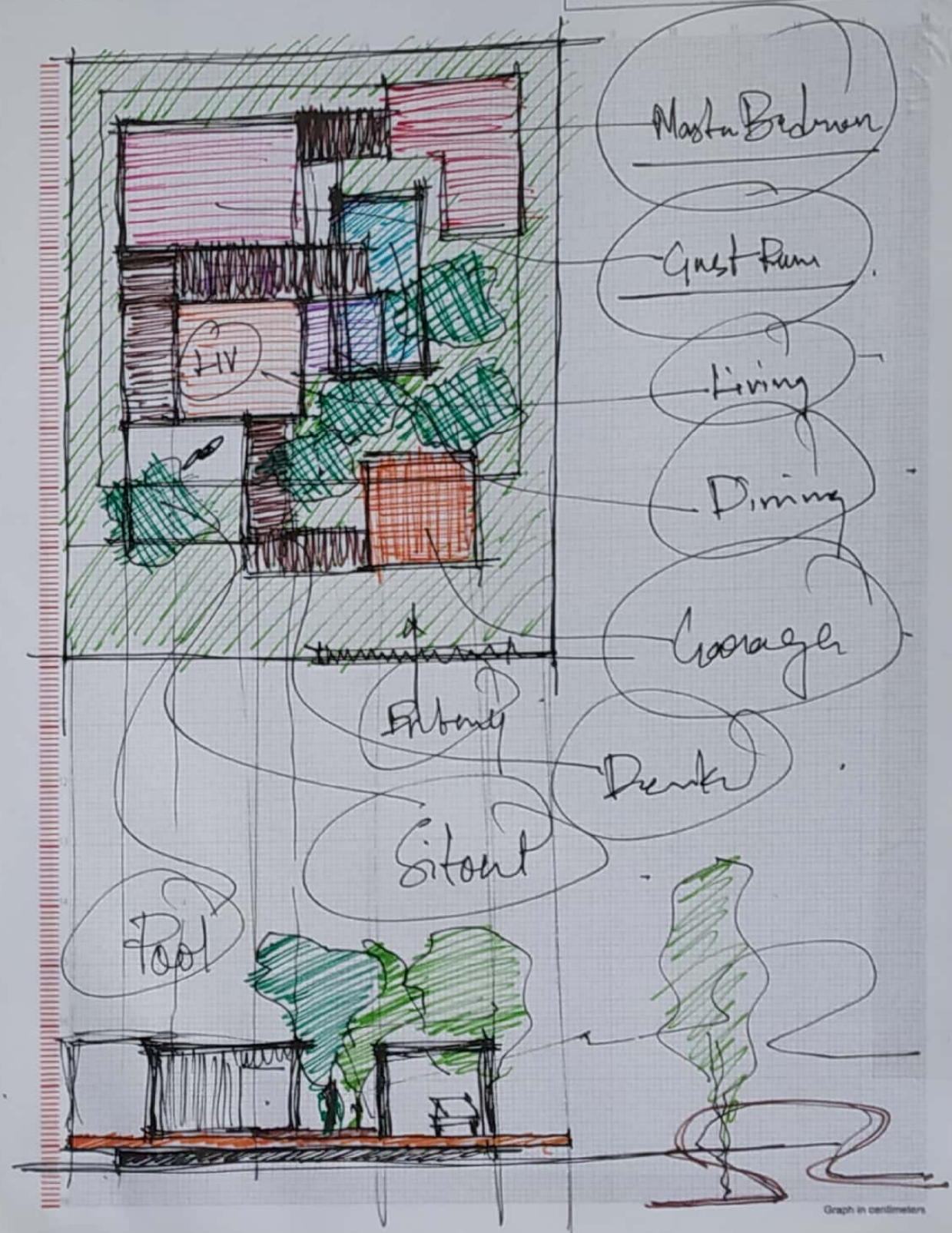


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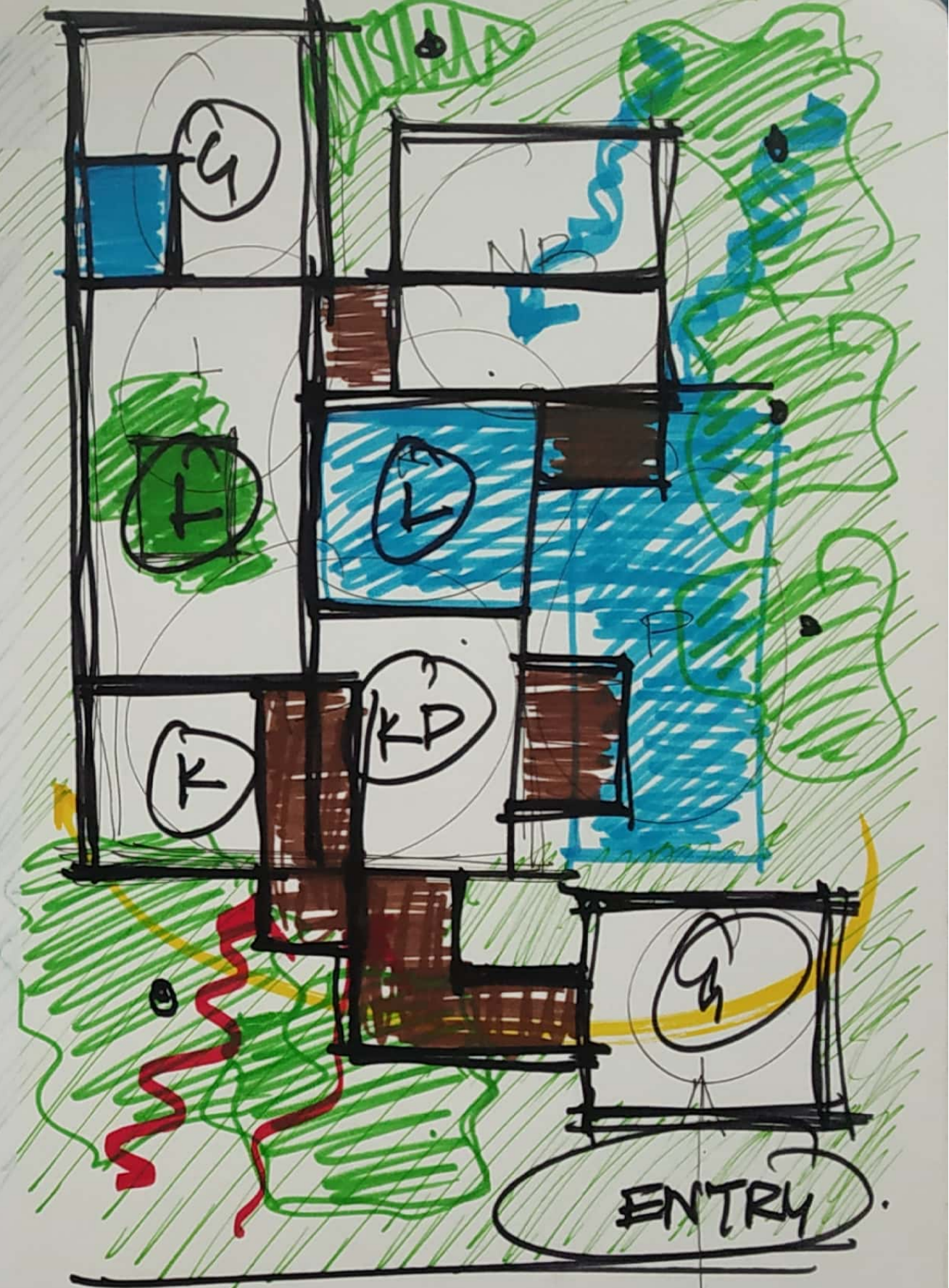
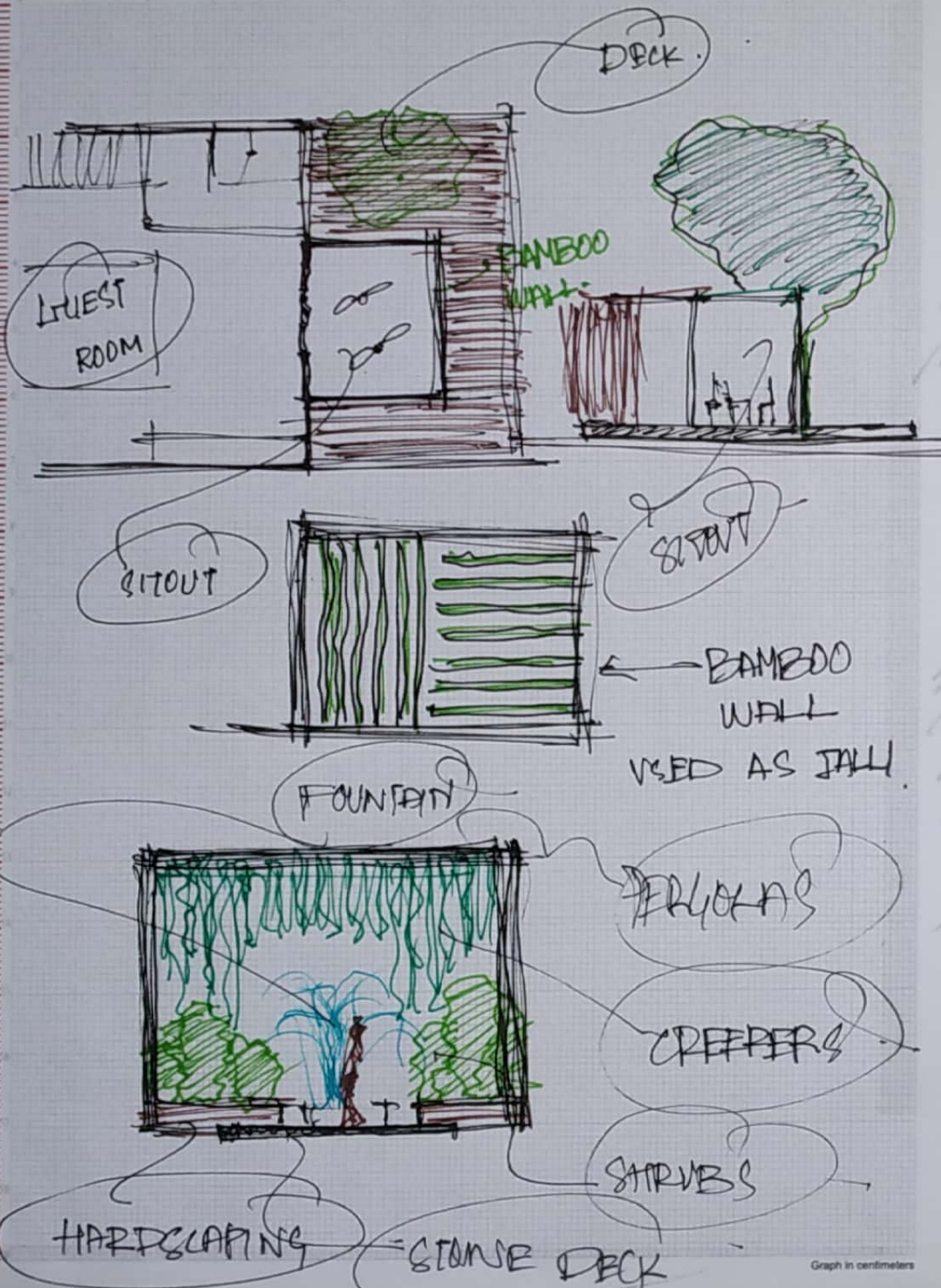


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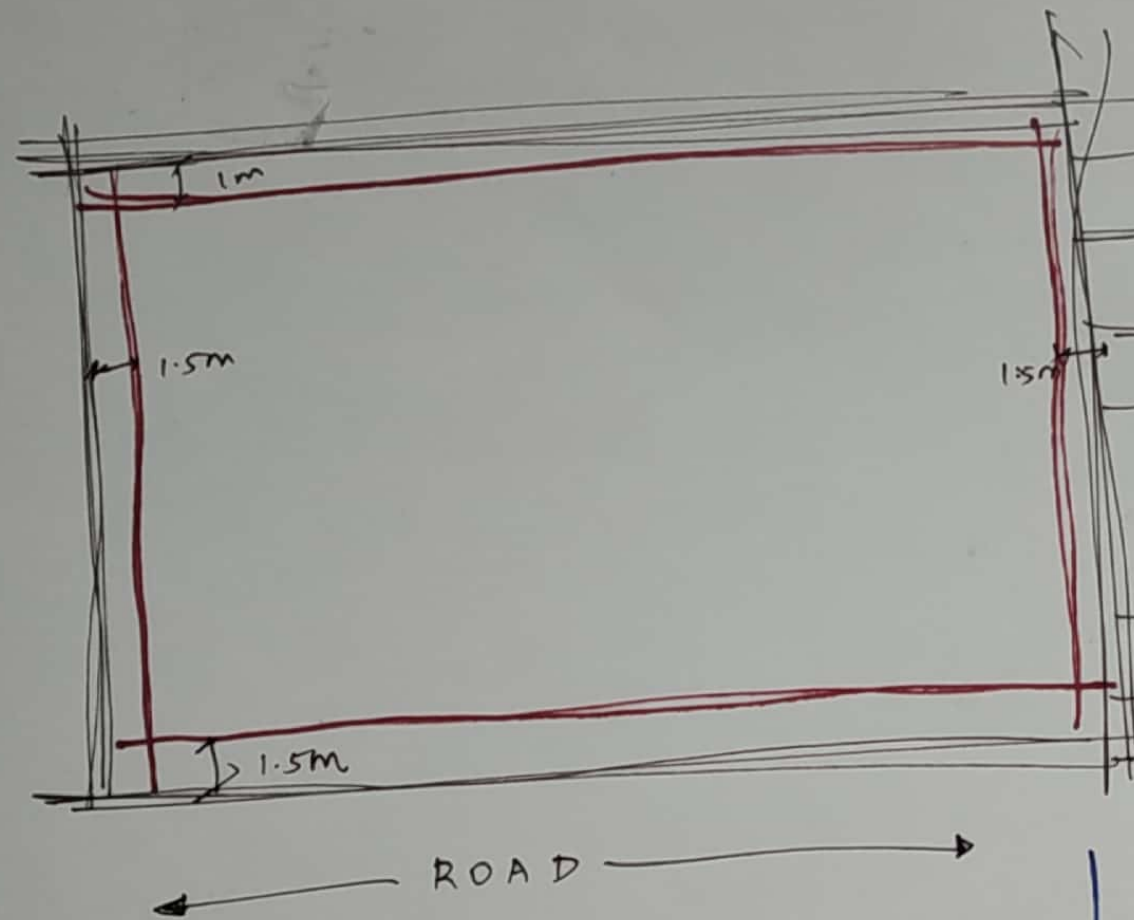


ARUN PAL BEACH RD .



AREA REQUIREMENT.

- ① Living Formal — Semi-Private.
- ② Dining — Public.
- ③ Garage — Public
- ④ Guest — Semi-Private.
- ⑤ Kids — Semi-Private.
- ⑥ Game — Public
- ⑦ BAR — Public
- ⑧ Office — Public
- ⑨ Library — Public
- ⑩ Master bedroom — Private
- ⑪ Swimming pool — Public
- ⑫ Informal living — Public
- ⑬ Kitchen — Private.



MINIMUM PLOT EXTENT - 80 Sq.m. 758.6 Sq.m

MINIMUM PLOT WIDTH - 6m 24.26 Sq.m

MINIMUM ROAD WIDTH - 6m 6m

SETBACK - FRONT - 1.5m
 REAR - 1.5m
 SIDE - 1m on each side

MAXIMUM PLOT COVERAGE - 70%

MAXIMUM FSI - 1.5

MAXIMUM HEIGHT - 4+1 or still + 2 floors
 Max - 9m.

MAXIMUM PLOT COVERAGE - 70%

$$\frac{76}{758.6} \times 100 = 70$$

531 Sq.m

$$\frac{76}{7.586} \approx 70$$

$$x = 70 \times 7.586$$

$$= 49 \text{ } \boxed{531 \text{ Sq.m}}$$

MAXIMUM FSI = 1.5

$$1.5 = \frac{\text{BUILT-UP}}{758.6}$$

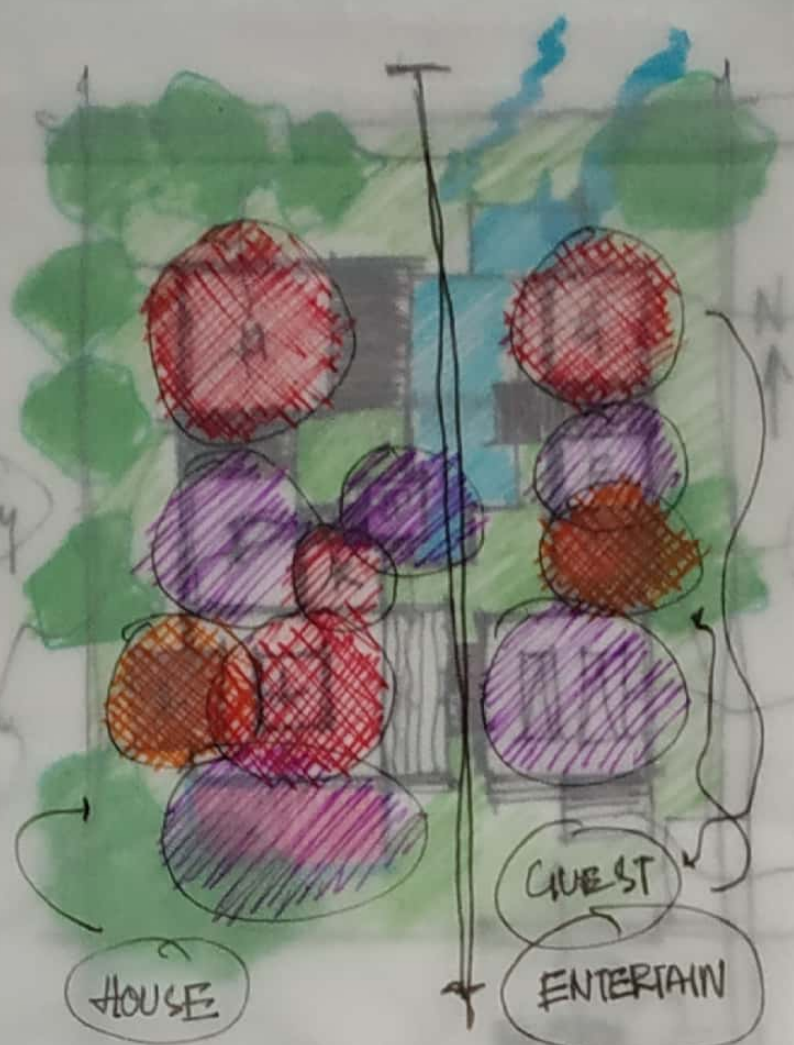
$$\text{BUILT UP} = \boxed{1137.9 \text{ Sq.m}}$$

PARKING.

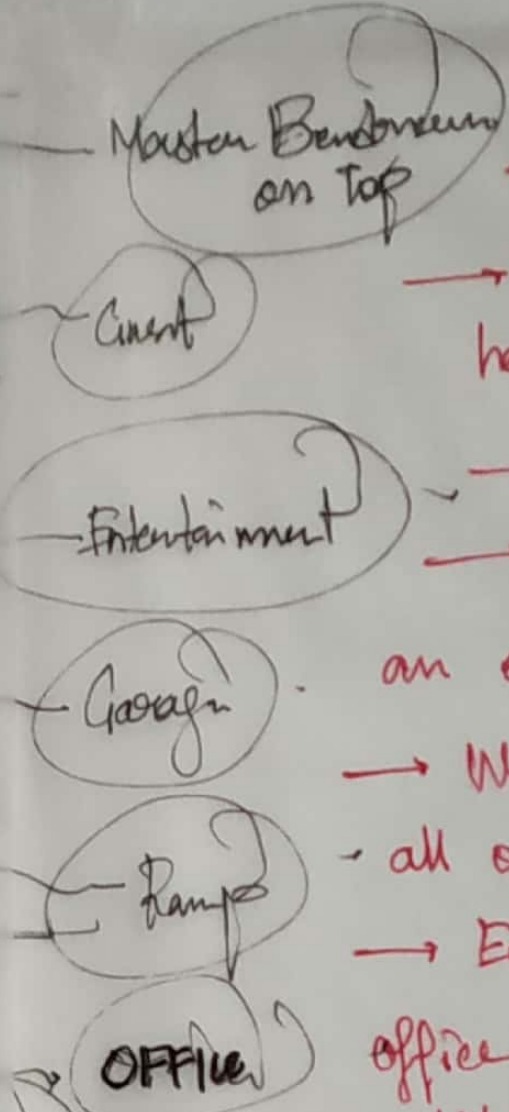
1 car for every 75 Sq.m

$$= \boxed{10 \text{ cars}}$$

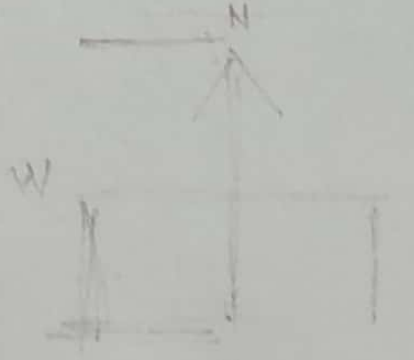
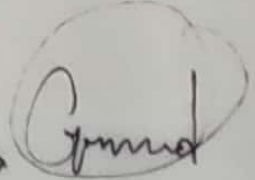
FSI CALCULATION.



Private.
 Public Semi-Private.

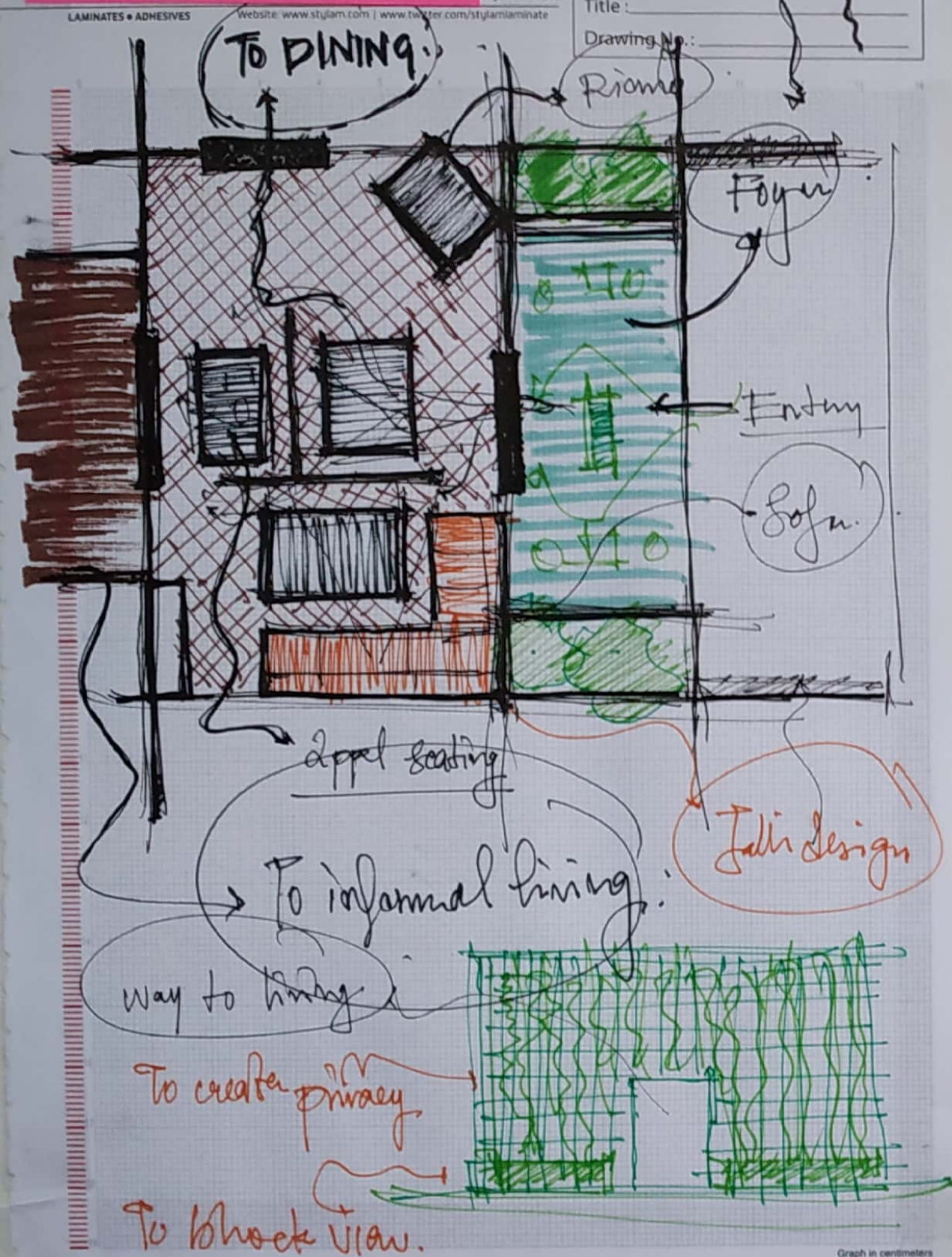


→ Central courtyard.
 → Master Bedroom has high privacy.
 → Guest has privacy.
 → Parents can have their kids.
 → Wind flow is complete all over the house.
 → Easy access to office.
 → Kitchen has privacy too.
 → Sit on deck all over.
 → Can have a look from balcony into living.



LIVING ROOM ZONING.

Date : _____
 Follow up : _____
 Project : _____
 Title : _____
 Drawing No. : _____

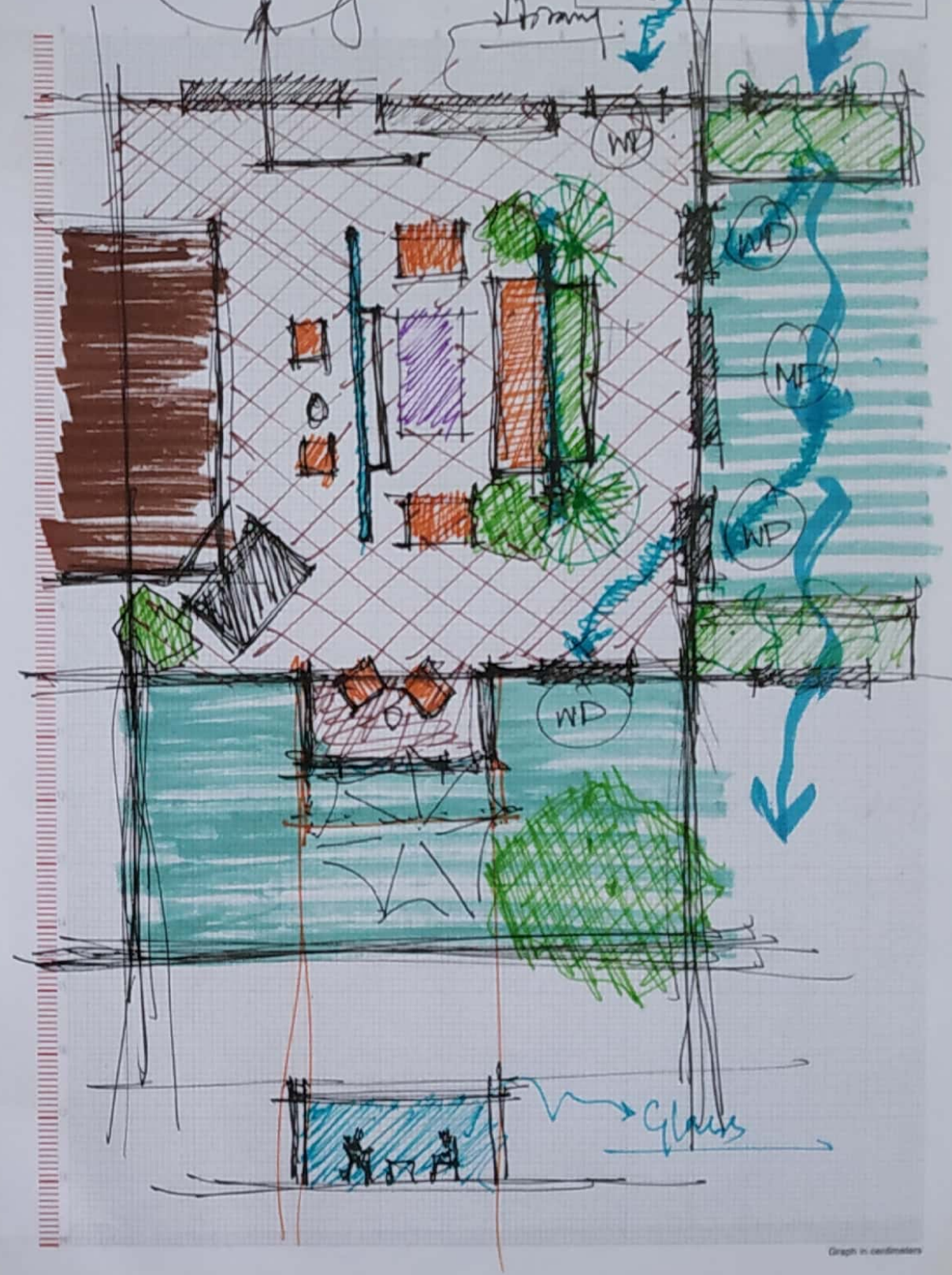


Graph in centimeters

STYLAM

LAMINATES • ADHESIVES

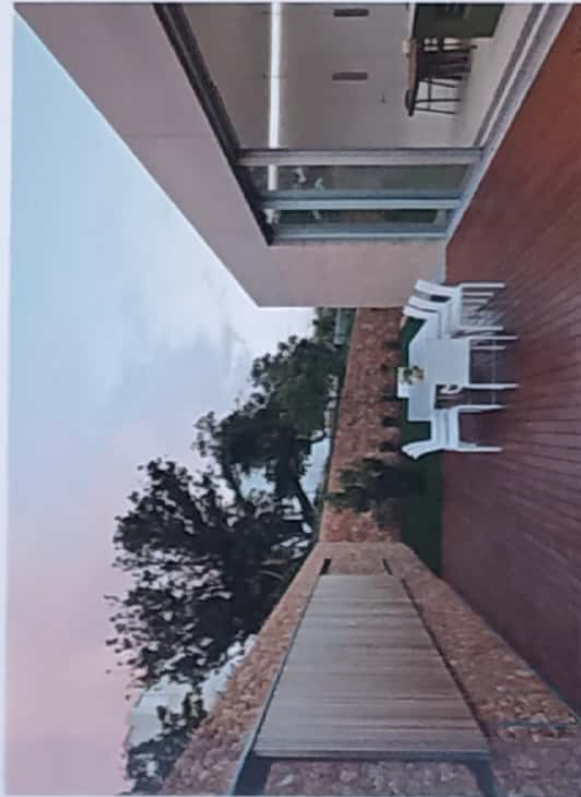
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Graph in centimeters

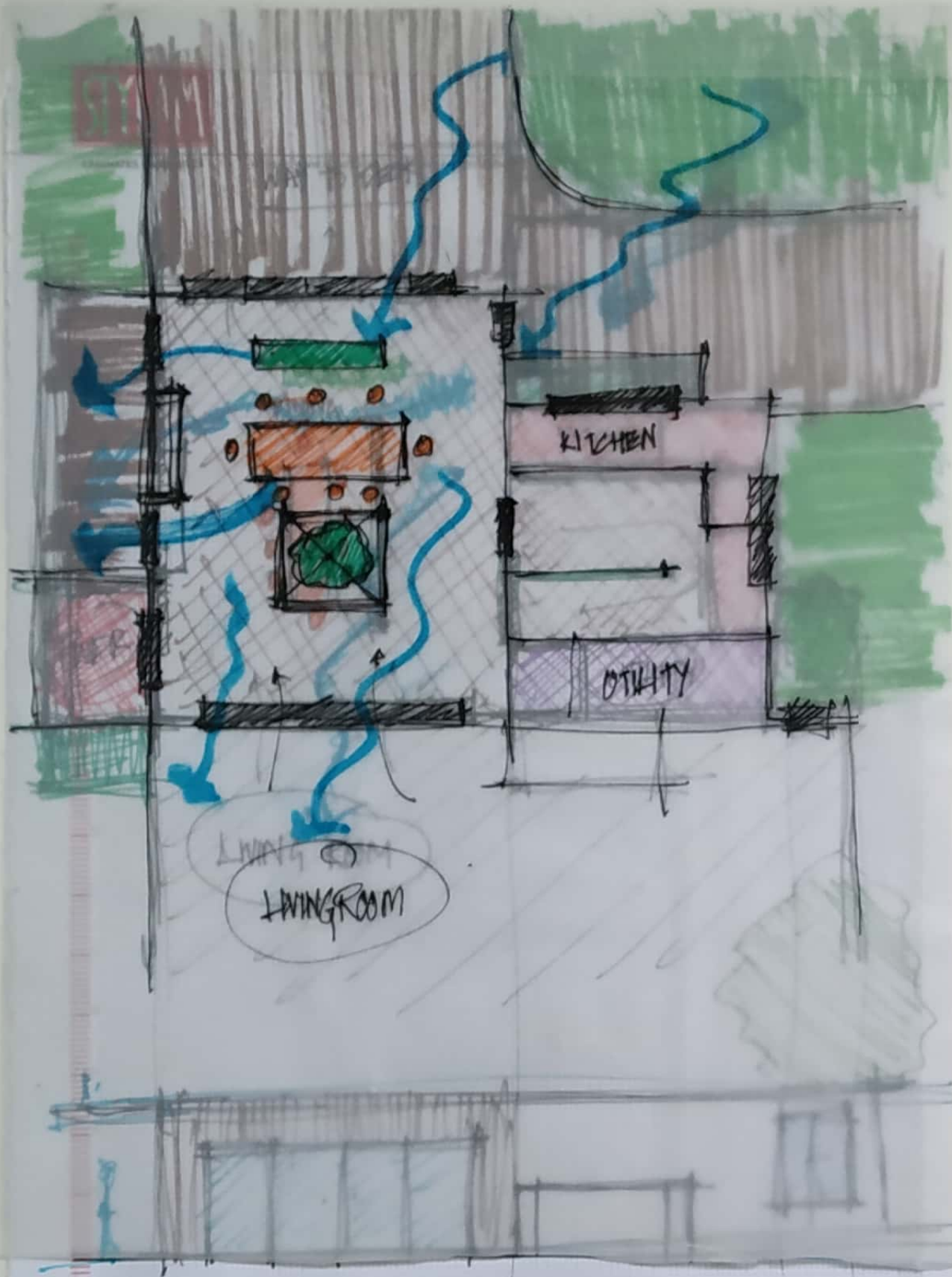
INSPIRATION BOARD.

INSPIRATION BOARD

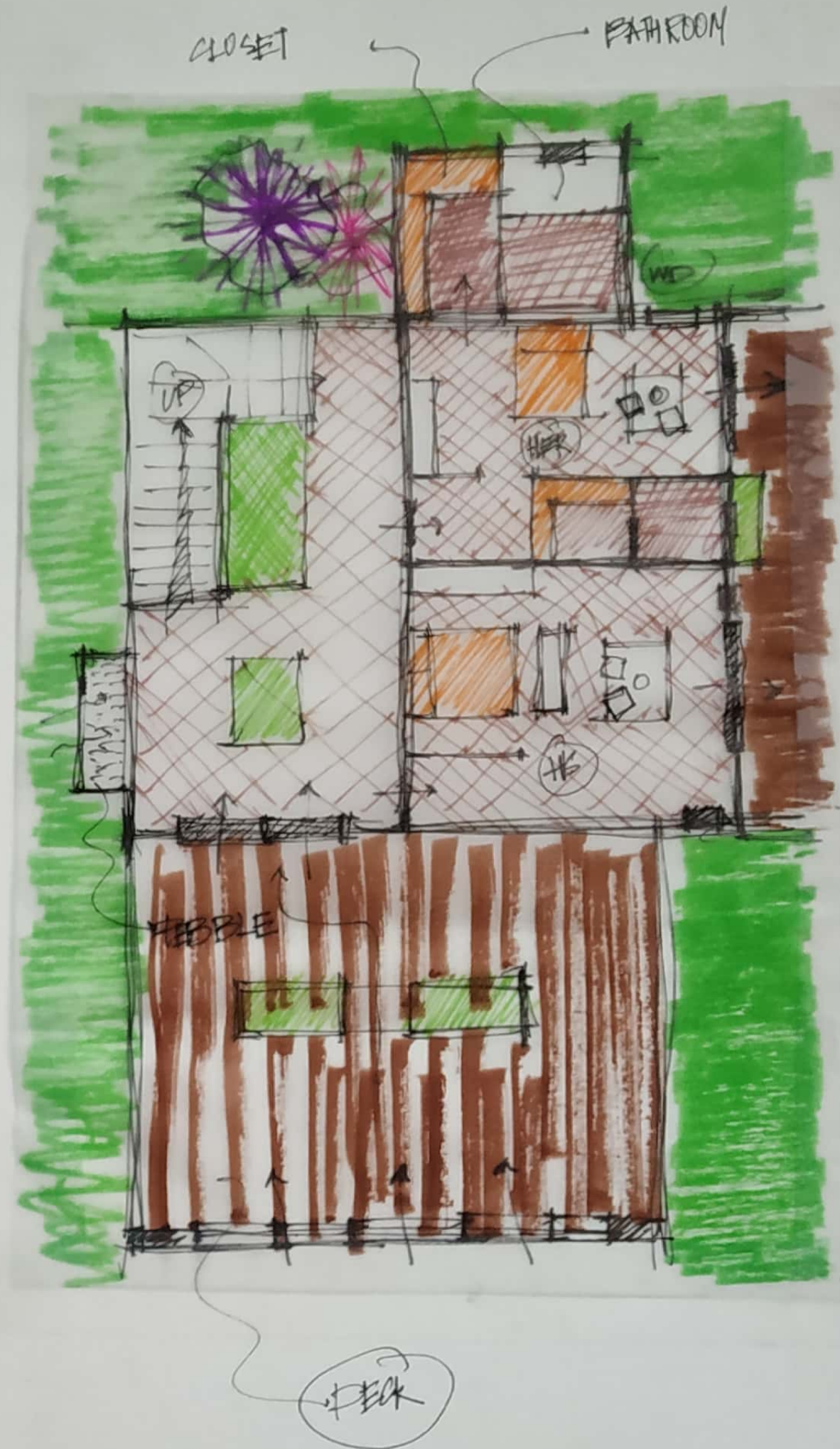




2019/4



DINING ROOM ZONING.

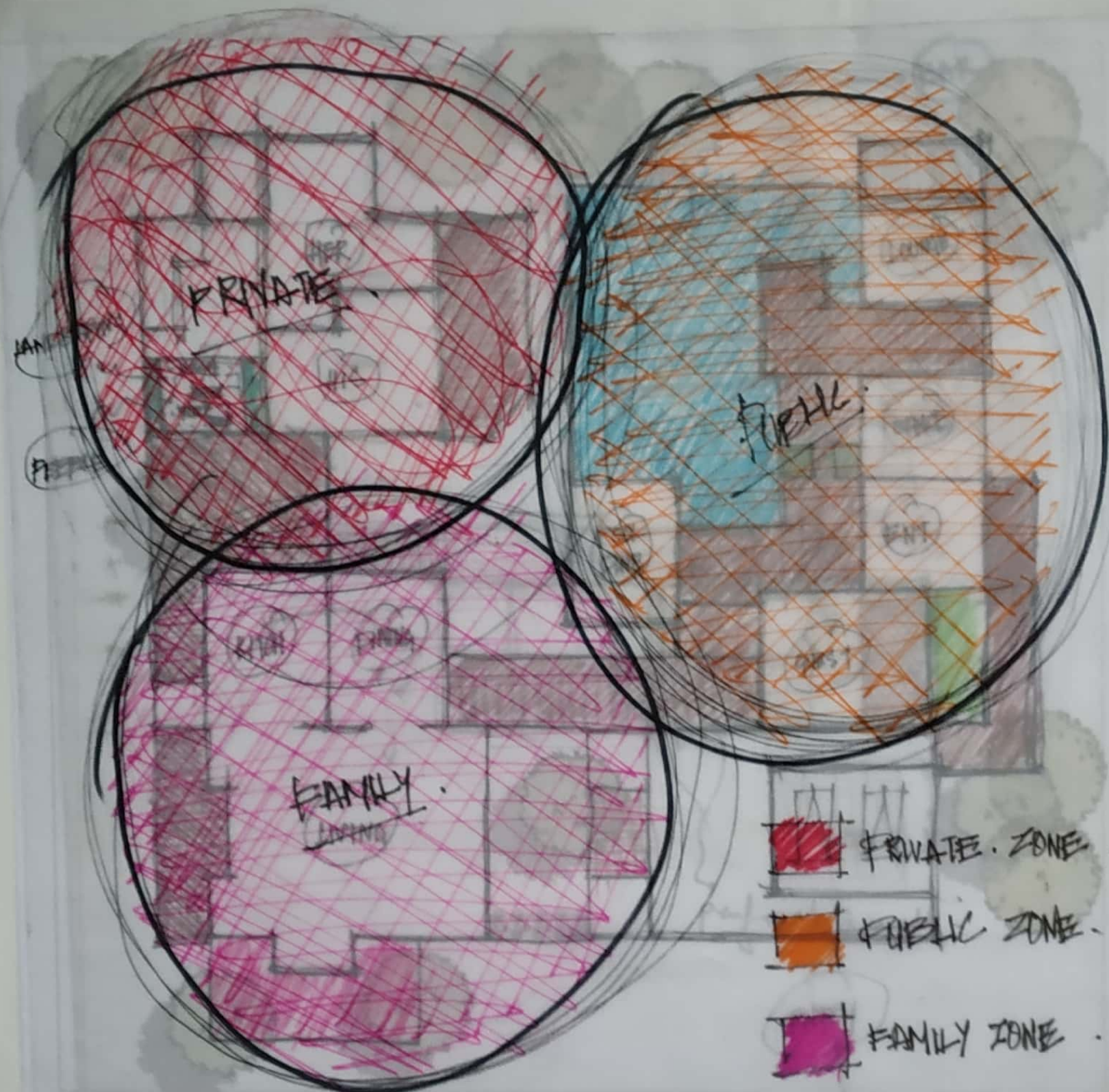


CLOSET

BATHROOM

DECK

DECK



CASE STUDY 1.

OUTHOUSE / MISA ARCHITECTS



OUTHOUSE: A VISIBLE INVISIBLE EXTENSION OF NATURE SEATED AMIDST AGRICULTURAL FARMLAND, THIS WEEKEND HOUSE BRINGS HARMONY BETWEEN THE NATURAL AND THE BUILT ENVIRONMENT. ON THE FIRST VISIT TO THE SITE, THE ARCHITECT MADE UP HIS MIND TO OPTIMIZE ON THE SETTING OF THIS PROJECT. AMID LUSH GREEN FARMLAND, AWAY FROM THE BUSTLING CITY OF AHMEDABAD, THIS SITE OFFERED A GETAWAY INTO THE SERENITY AND VASTNESS OF NATURE. THE OUTHOUSE PLAN COMPRISES A SERIES OF COURTYARDS AND PRIVATE SPACES, CONNECTED THROUGH AN IMMACULATE PASSAGE. THIS PROJECT HAS A LIVING AREA, DINING, KITCHEN, MASTER BED AND GUEST ROOM. THE COURTYARDS EMBED USABLE OUTDOOR SPACES LIKE THE PATIO, SWIMMING POOL, AND THE ENTRANCE VESTIBULE.



CASE STUDY 3.



OUTHOUSE / MISA ARCHITECTS



ON THE FIRST VISIT TO THE SITE, THE ARCHITECT MADE UP HIS MIND TO OPTIMIZE ON THE SETTING OF THIS PROJECT. AMID LUSH GREEN FARMLAND AWAY FROM THE BUSTLING CITY OF AHMEDABAI THIS SITE OFFERED A GETAWAY INTO THE SERENITY AND VASTNESS OF NATURE. THE OUTHOUSE PLAN COMPRISES A SERIES OF COURTYARDS AND PRIVATE SPACES, CONNECTED THROUGH AN IMMACULATE PASSAGE. THE PROJECT HAS A LIVING AREA, DINING, KITCHEN, MASTER BED AND GUEST ROOM. THE COURTYARD EMBEDS USABLE OUTDOOR SPACES LIKE THE PATIO, SWIMMING POOL, AND THE ENTRANCE VESTIBULE.



ANALYSIS. —

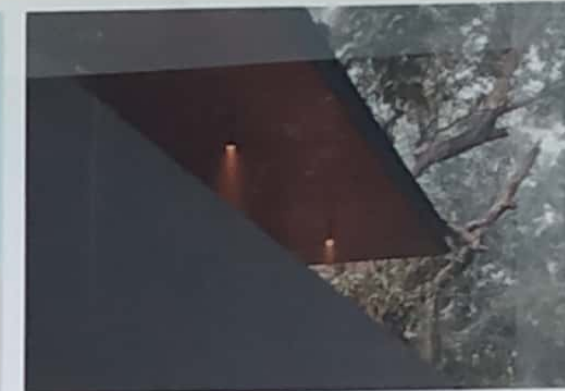
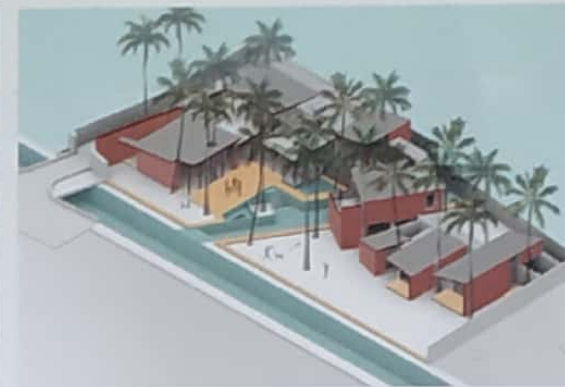


GROUND FLOOR PLAN.

SEMI PRIVATE

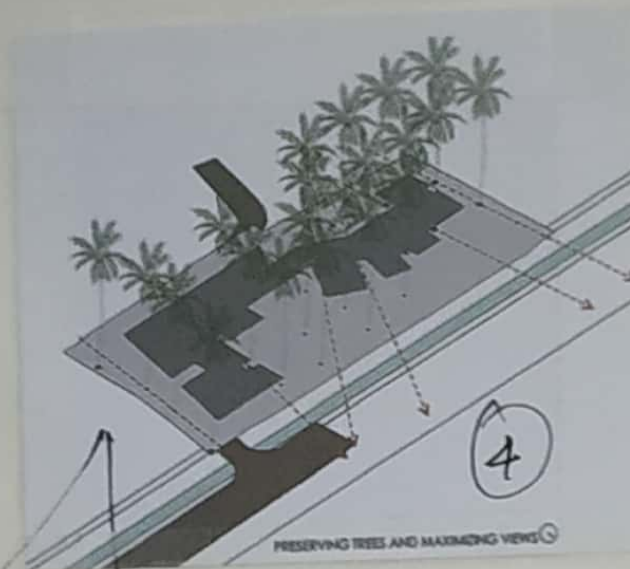
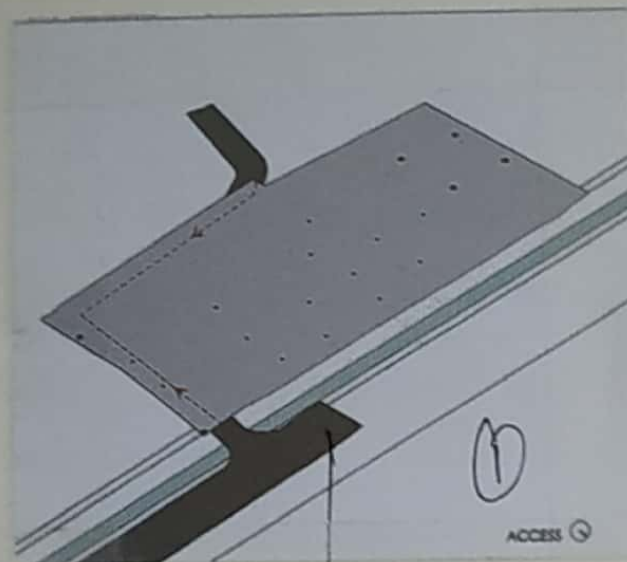
PRIVATE

CASE STUDY 4.

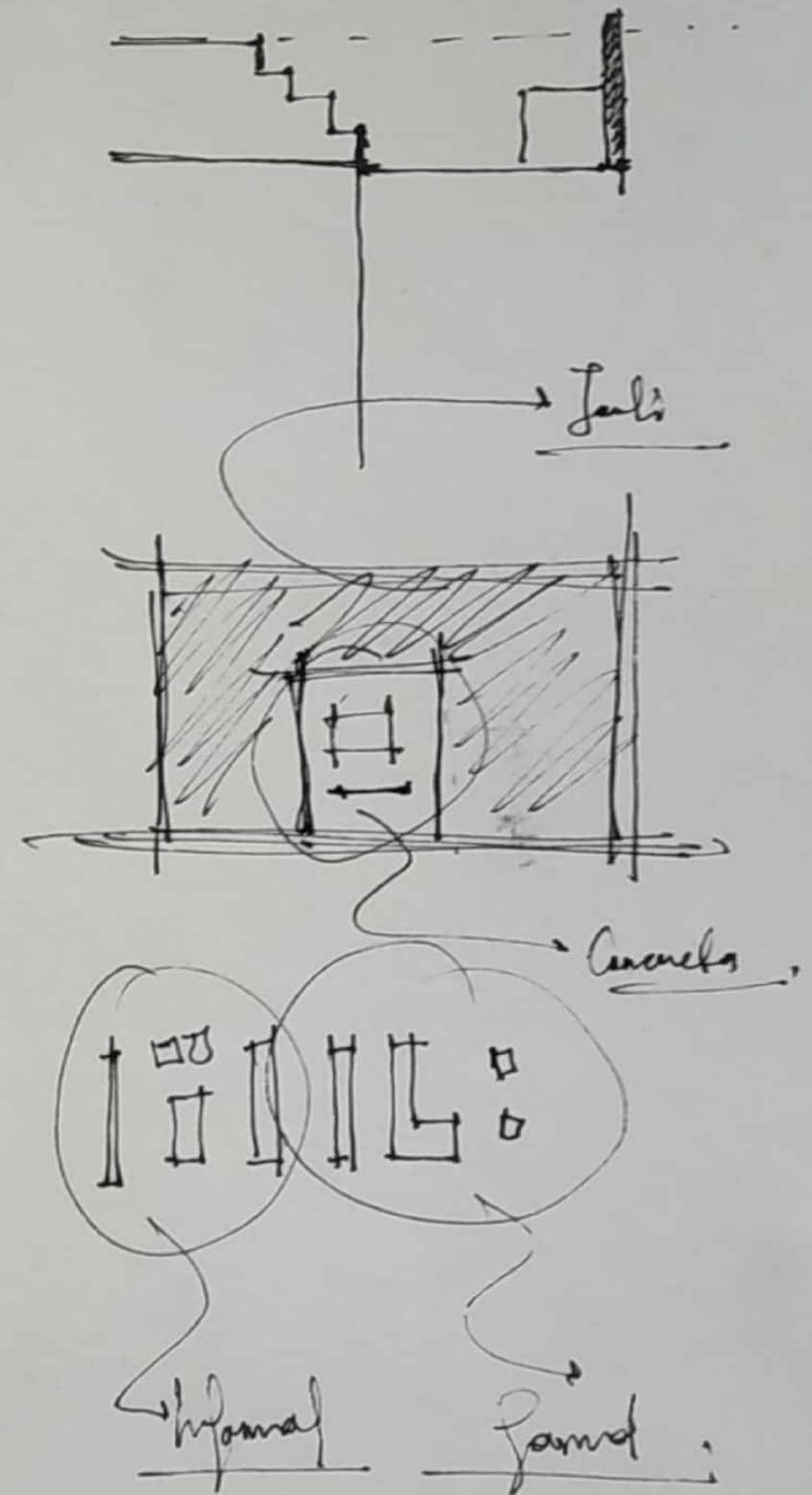


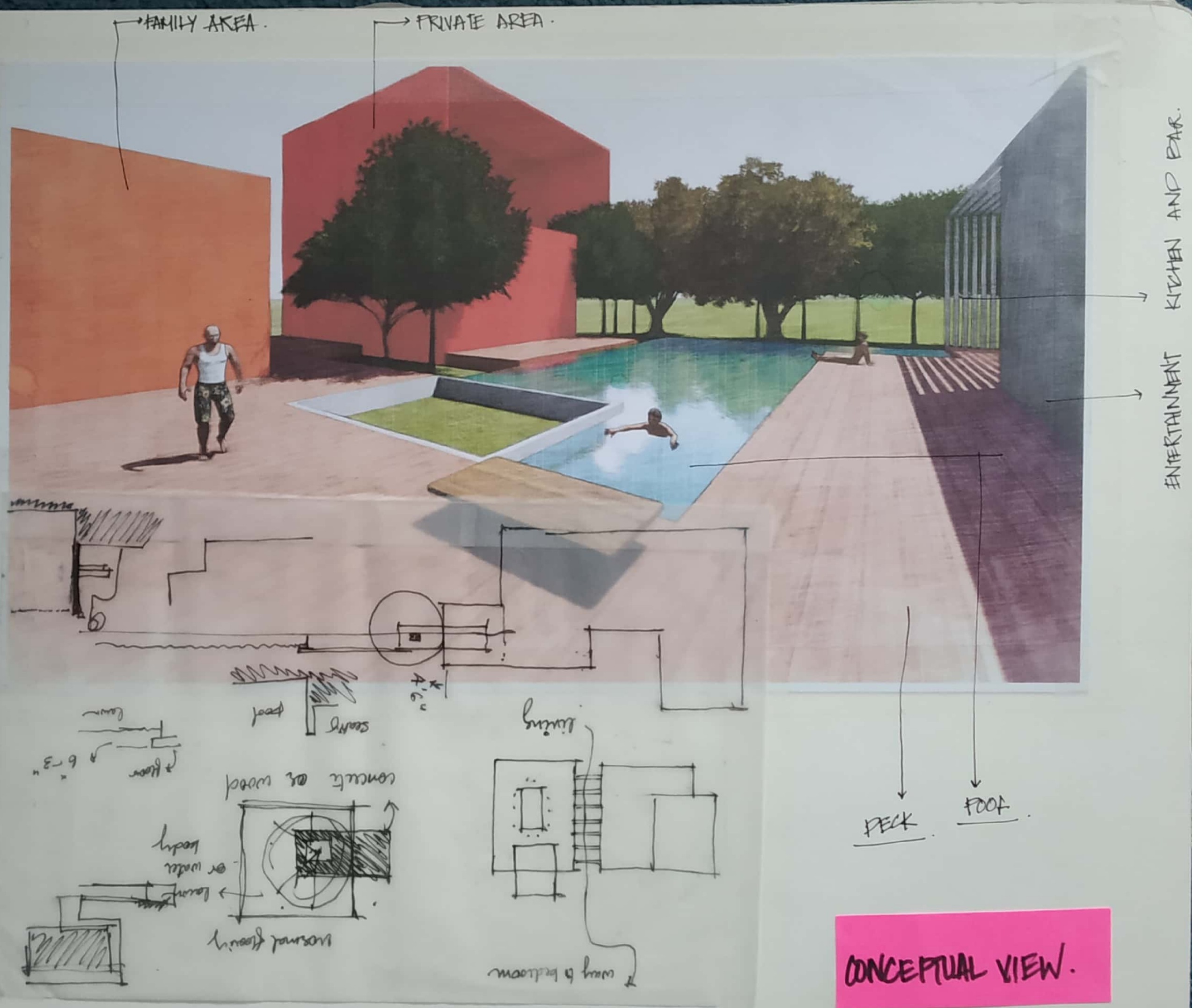
VILLA IN THE PALMS IS NAMED AFTER THE 19 TOWERING COCONUT PALMS THAT THRIVED FOR DECADES ON THE LAND, WHICH DICTATED THE VILLA'S CONCEPT AND FOOTPRINT. THIS FOUR-BEDROOM HOUSE OVERLOOKS A FIELD AND A SEASONAL STREAM. EMBEDDED INTO THE NATURAL LANDSCAPE, VILLA IN THE PALMS APPEARS ALMOST VILLAGE-LIKE, POCKETS OF SMALL HOMES NESTLED BETWEEN 80-YEAR-OLD COCONUT TREES NEARLY INVISIBLE FROM POINTS FURTHER UP THE APPROACH ROAD. THE FACT THAT THE TREES ON SITE EXISTED FOR DECADES GIVES THE OVERALL HOUSE A VERY ROOTED PRESENCE. THE STUDIO'S DESIGN APPROACH IS TO RECONNECT ARCHITECTURE WITH NATURE.





ANALYSIS. —





PERGOLAS



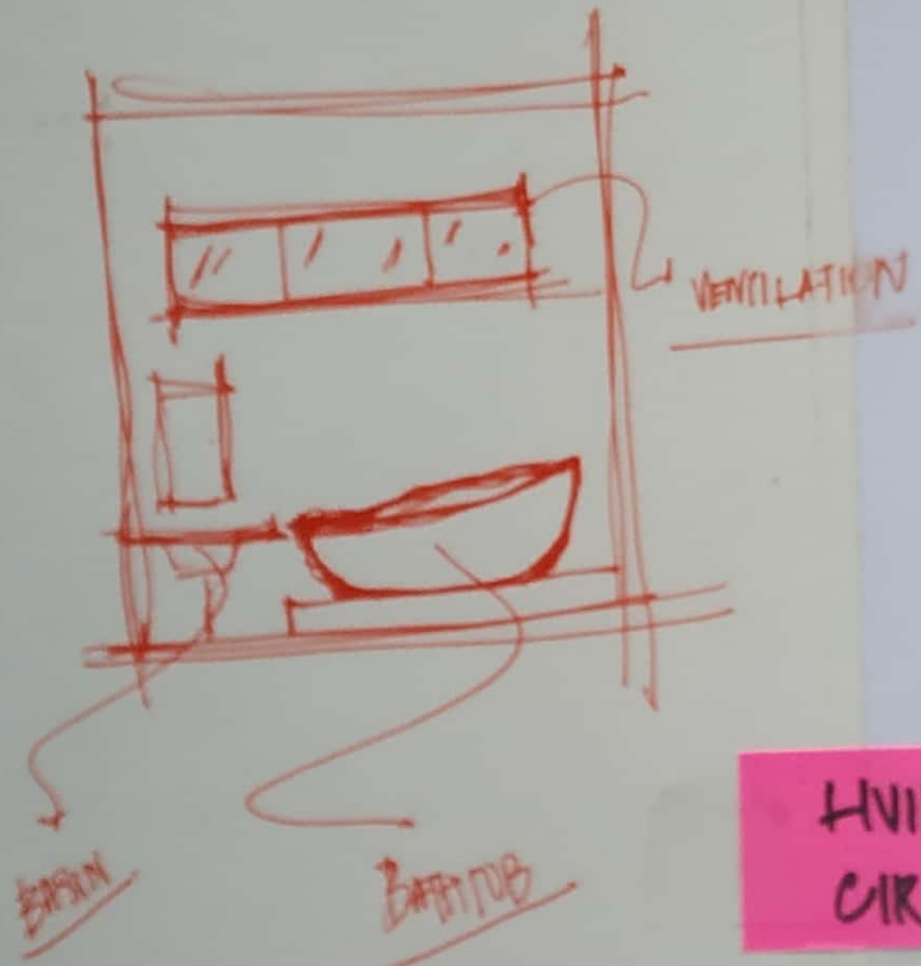
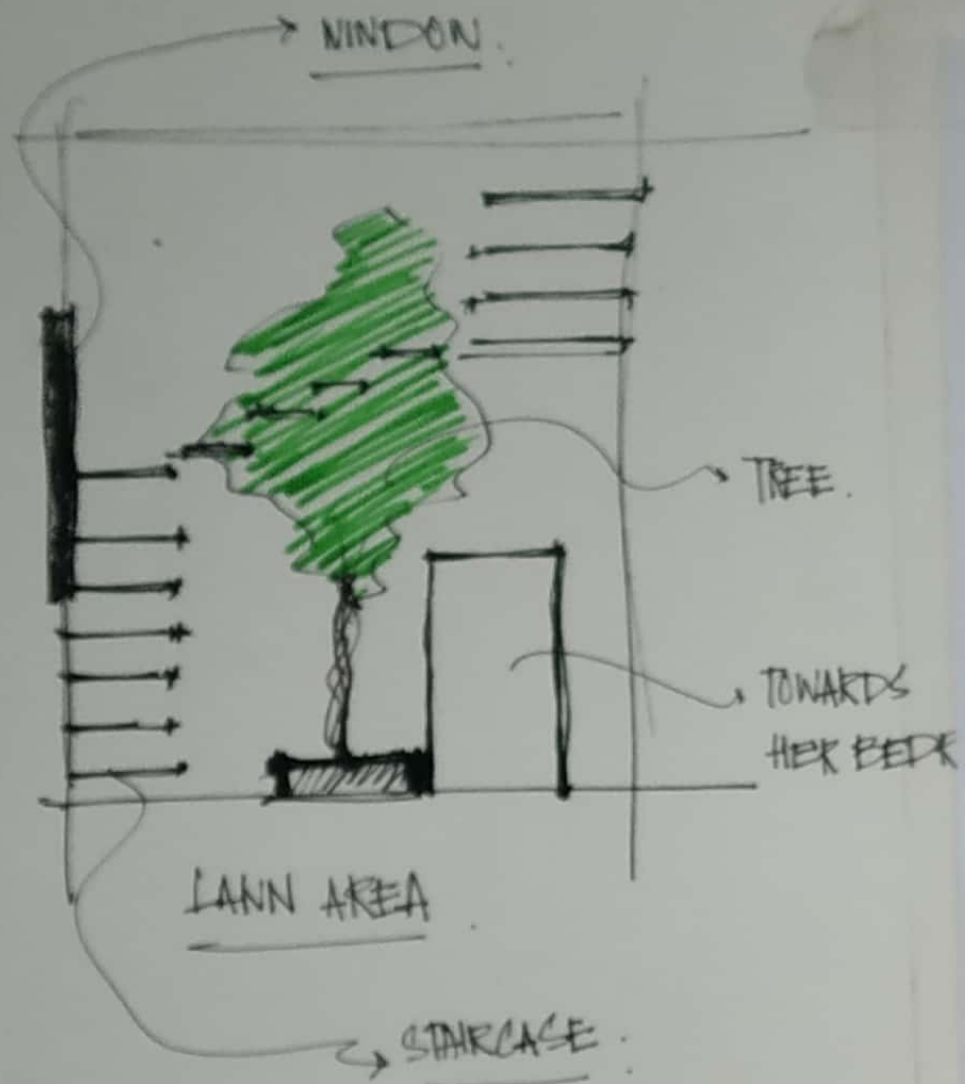
CONCEPTUAL VIEW.

TOWARD'S ENTRY

PERFORATED WALL

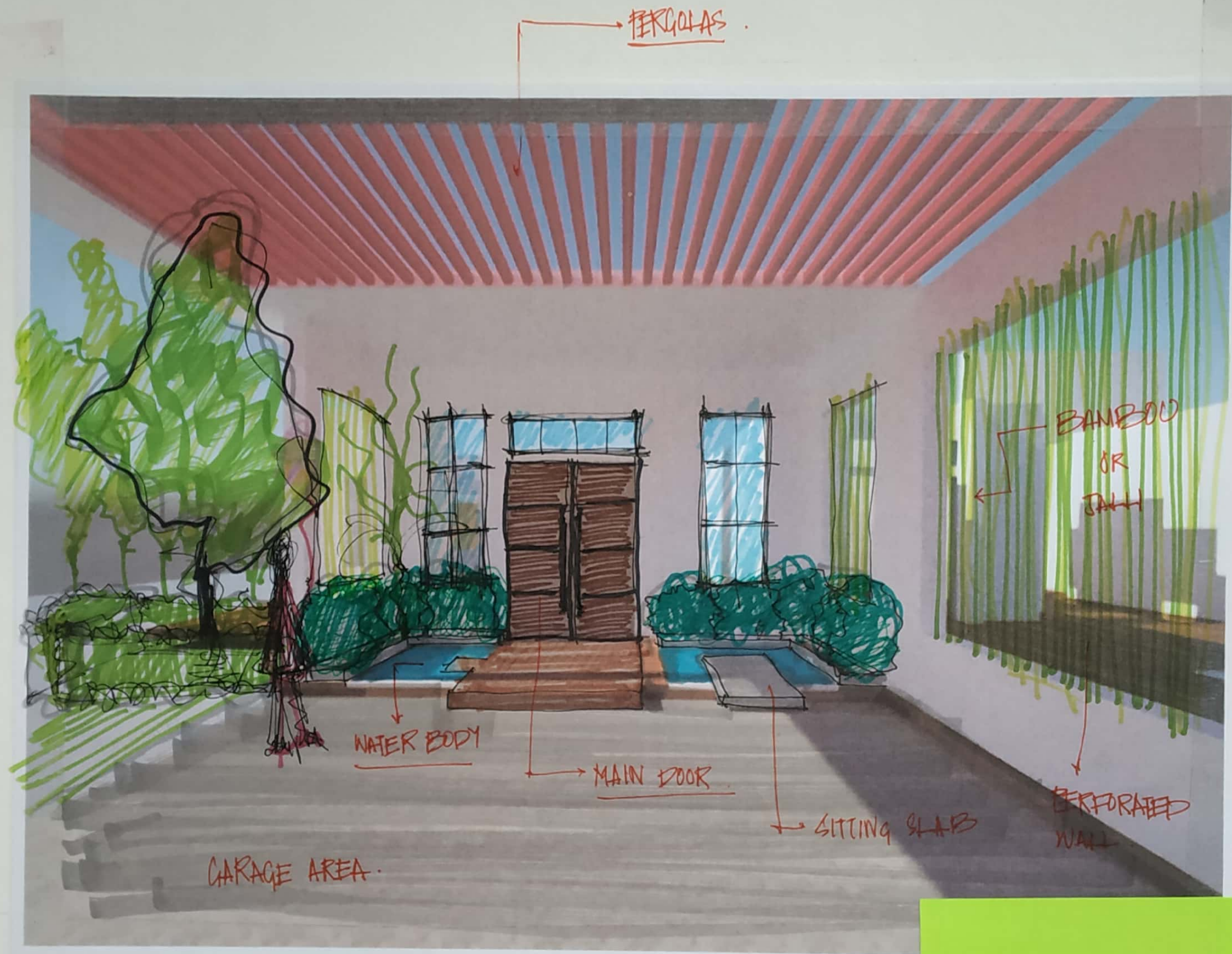
GARAGE

ROAD

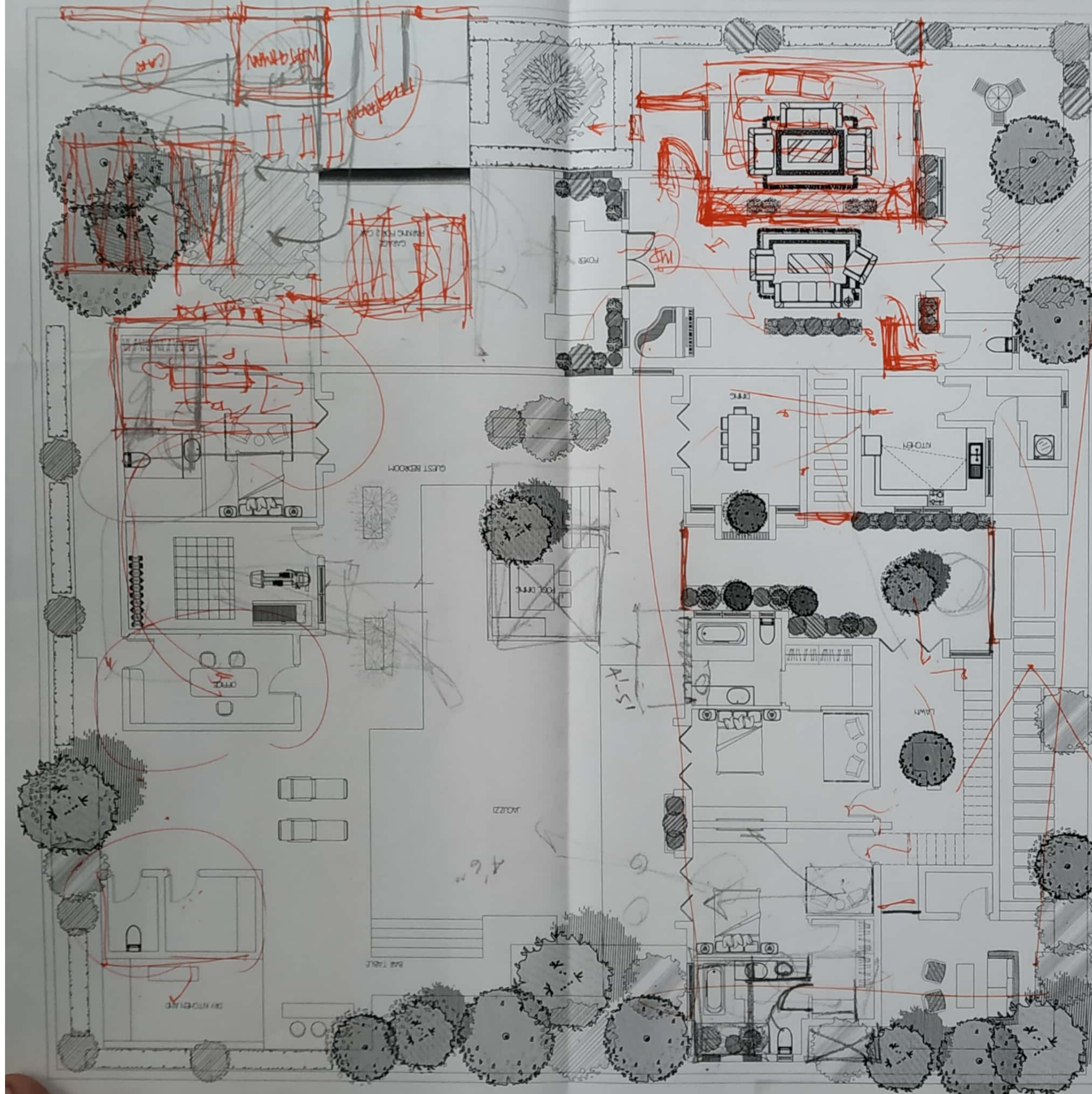


LIVING ROOM CIRCULATION.

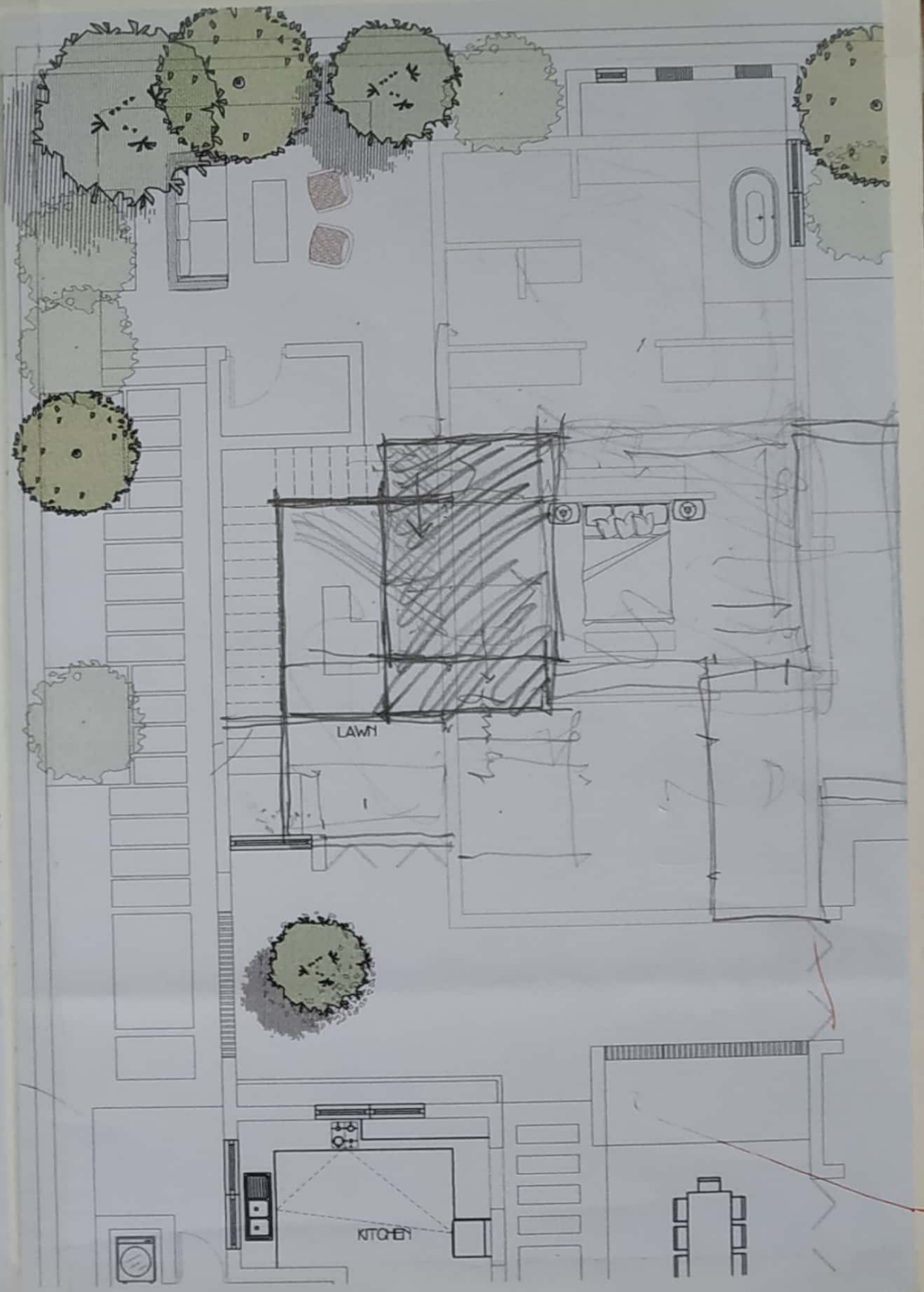
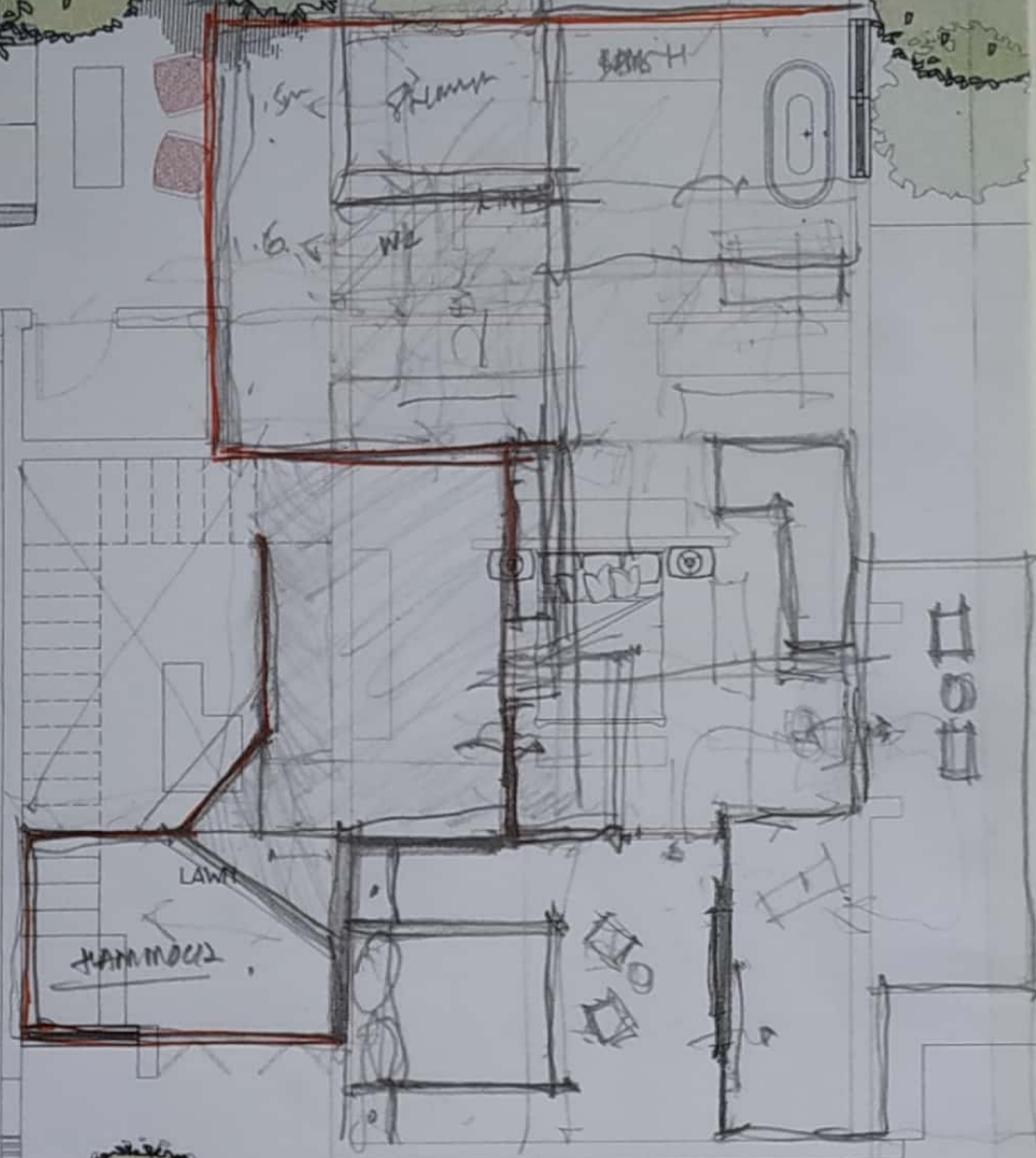








ZONING.



2019/4/

