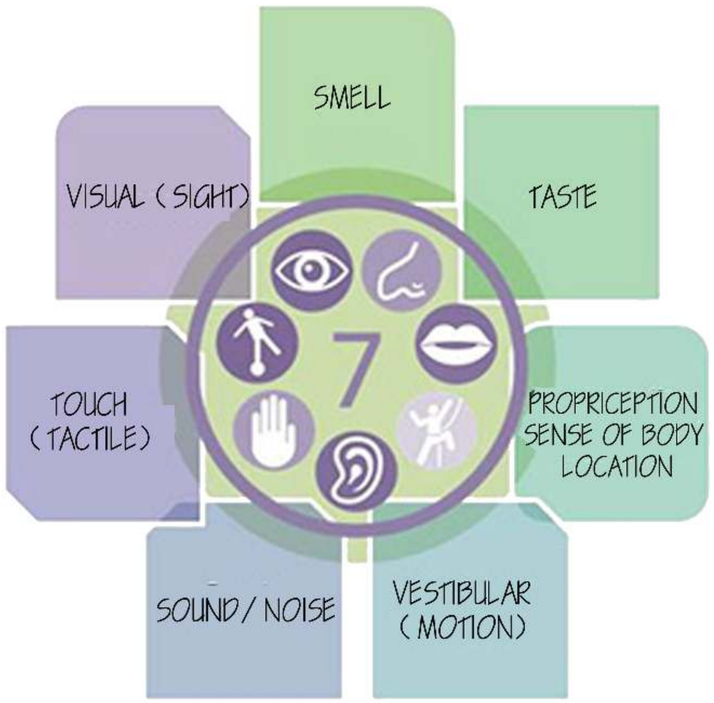
HOPE :
CENTRE FOR AUTISM

The project creates spaces that offer programs specialised for children with autism. The strategy used for designing this project revolves around spatial sequencing , color , way finding , interactive spaces.

WHAT IS AUTISM ?



Sensory Issue (Hypo/Hyper)

Autism spectrum disorder is a **Developmental disability** that can cause significant **social , Communication and behavioral challenges.**

The learning , thinking , problem solving capabilities can range from gifted to severally challenged

AUTISM IN FAMOUS BOLLYWOOD MOVIES

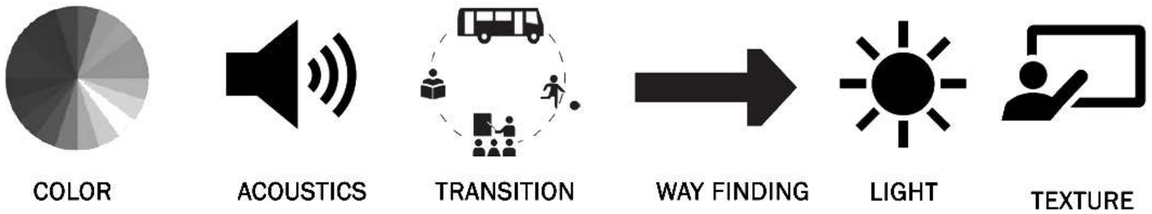
AUTISM SPECTRIUM DISORDER BEHAVIOUR

Difficulties in social interaction, communication, emotion & imagination	Sensory Abnormalities	Repetitive Behavior

Persons with autism may posses the following characteristics in various combinations and in varying degrees of severity.

WHAT ARE THE CHALLENGES?

- **No specific standards** laid down anywhere for Autism or developmentaldisability



- The expression of space as an individual's experience

TARGET USERS

NEED FOR THE PROJECT

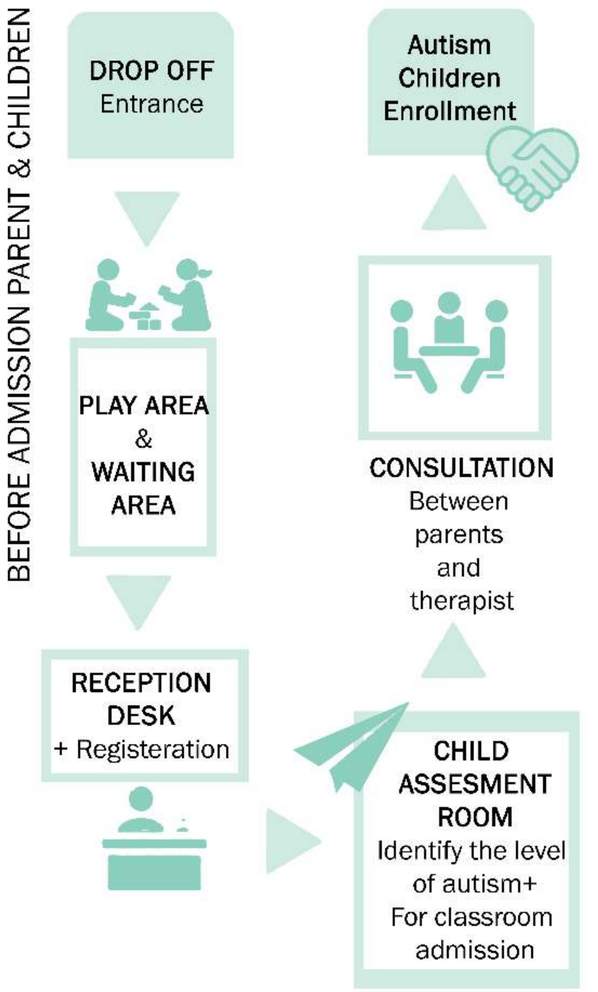
The project is the **first of its kind in India.**

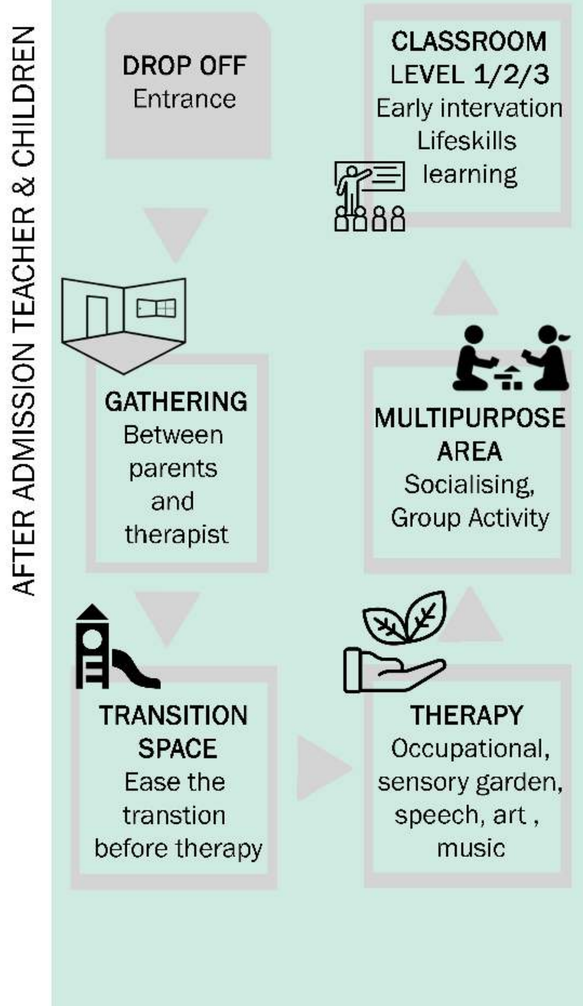
In addition to providing a **learning and vocational centre** under a therapeutic centre supervision,the centre will also provide **respite service for ASD.**

1 in 59 children were diagnosed with ASD in 2014 as reported by the CDC

-Design guidelines for barrier free architecture
but **no specific references for developmental disorders** or even autism.
-Pointed out that individuals with developmental and psychosocial disorders, of which **autism is one, have been overlooked.**

FUNCTIONAL REQUIREMENTS





SITE ANALYSIS

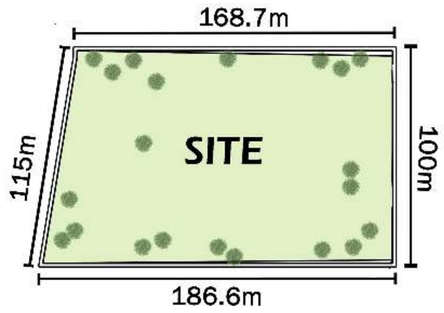
SITE LOCATION

INDIA

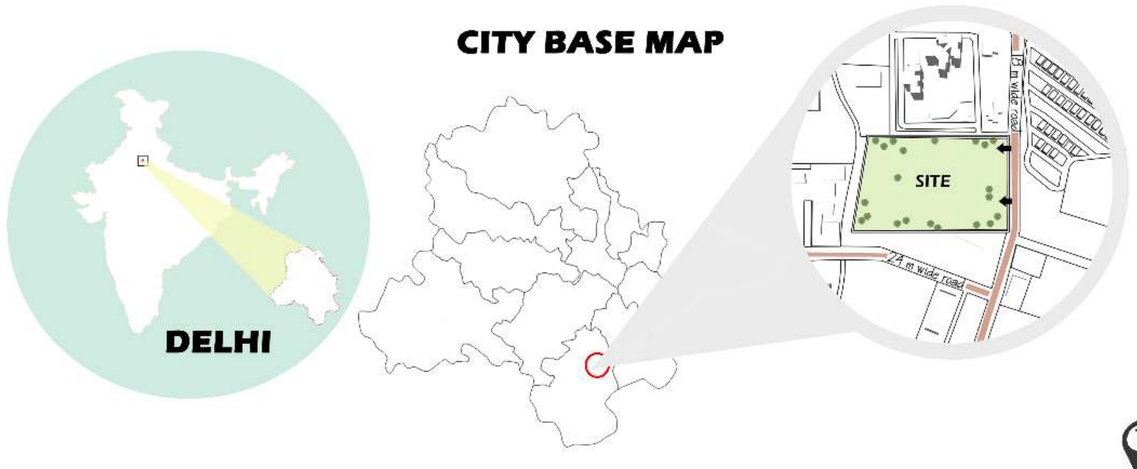
ABOUT THE PROJECT

- PROJECT NAME : Hope Autism Center
- TYPE OF BUILDING : institutional
- LOCATION : Pushp vihar,saket
- SITE AREA : 4.5 acre i.e 18210.9 sq m
- PERMISSIBLE FAR : 1.2
- PERMISSIBLE G.C : 50%

SITE DIMESNIONS



CITY BASE MAP



WHY THIS SITE?

- SIZE : Large enough to support the functional requirement of programs.
- LOCATION ; Children with autism have sensory issues thus the context minimizes the noise pollution here.

SITE SURROUNDINGS

1. AMITY SCHOOL

2. NATYA TARAGINI

3. GOVT HOUSING

4. METRO ENCLAVE

5. ANDHRA SCHOOL

6. SAKET COURT

7. SHEIKH SARAI

SITE CONTEXT ,CONNECTIVITY AND ACCESSIBILITY DIAGRAM

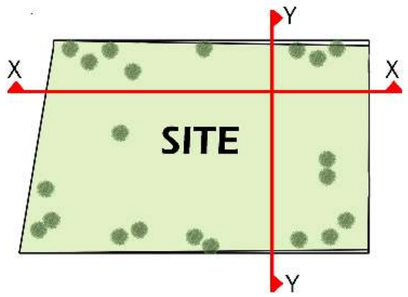
CLIMATE ANALYSIS

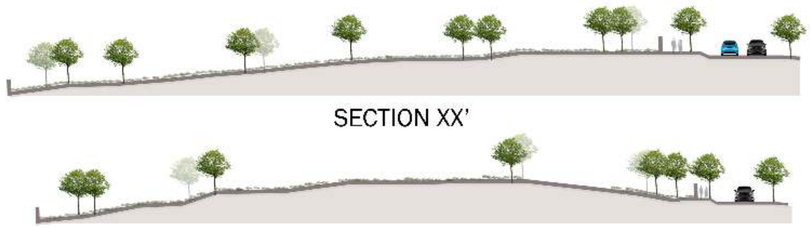
- ORIENTATION : North-East & South-West direction , less heat gain
- OPEN SPACES such as courtyard are beneficial.
- BUILDING GROUPED to take advantage of winds

SITE ANALYSIS

SITE SECTIONS

SITE TOPOGRAPHY & VEGETATION





- The site is not flat,it has a slope from east towards west
- There is mild vegetation on the site with a few trees and unmanicured shrubs.
- Use of existing trees for sensory garden spaces , vocational training etc

SITE VEGETATIONS


NEEM


INDIAN MAHAGONY


CURRY


PEEPAL

SITE SURROUNDING LANDUSE

1 ELECTRICITY SUB STATION
2 DRAIN
3 POLICE STATION
4 OVERHEAD WATER TANK

RESIDENTIAL
INSTITUTIONAL
RELIGIOUS
UTILITIES
PUBLIC/SEMI

BUILDING BYE LAWS

PERMISSIBLE AREA
Ground Coverage
50% of Site Area
= 9105.45 sq m
F.A.R = 1.2
FAR Area= 21853 sq m
Building Ht. = 18m
ECS= 1.33 / 100 sq m

SITE PHOTOS


18M WIDE ROAD


24M WIDE ROAD


INSIDE SITE TREES


SHRUBS INSIDE SITE


PEDESTRIAN PATH


EXISTING SITE ENTRY


9M WIDE ROAD

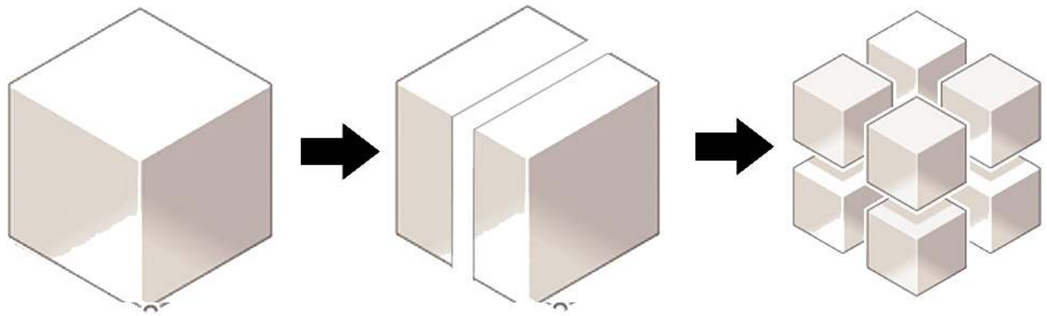
LANDUSE ANALYSIS

- Surrounded by residential, institutional, green open space on 2 sides which is a positive sign.
- The site is easily accessible from two important roads.

CONCEPTUAL DEVELOPMENT

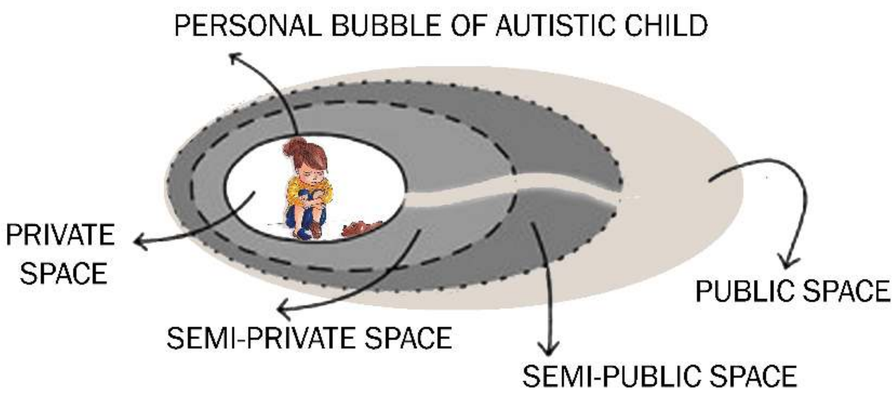
Children with autism always try to seperate themseleves from others.

They live in a closed world and they are not willing to come out of it.
Its like they live in a box

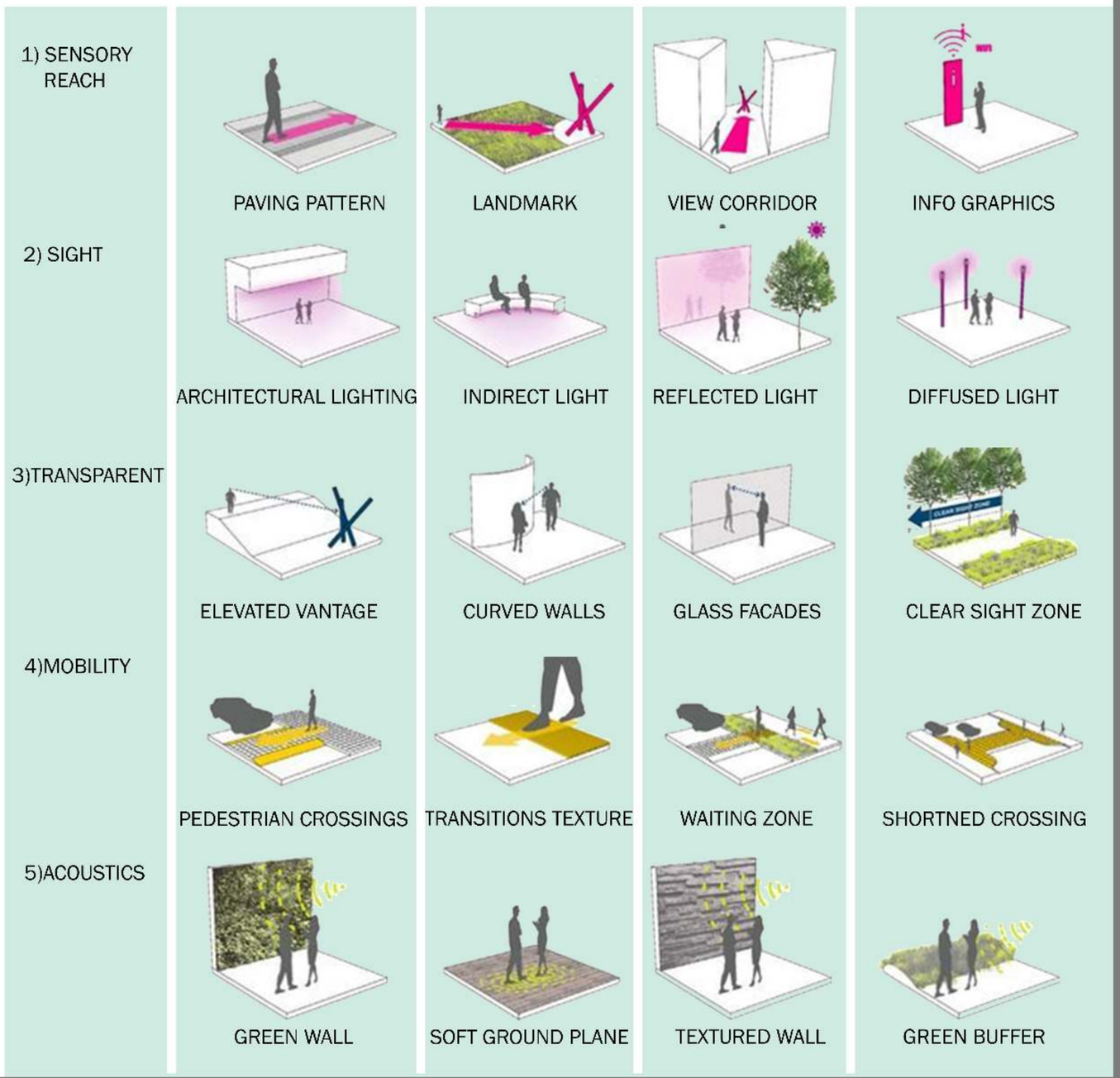


They live in a cube and our main goal is to bring them out of it.
This cube must be broken to access the real world

THE IDEA



The purpose of this design is to **remove children from their private environment** and to prepare them to enter into the community.



CONCEPTUAL DEVELOPMENT

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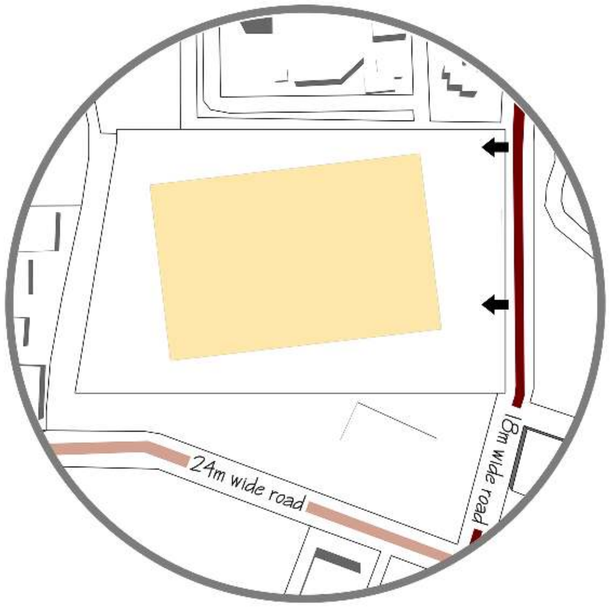
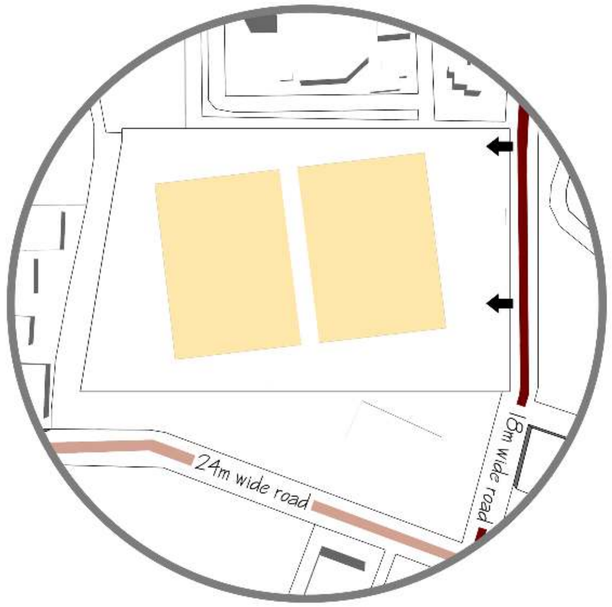
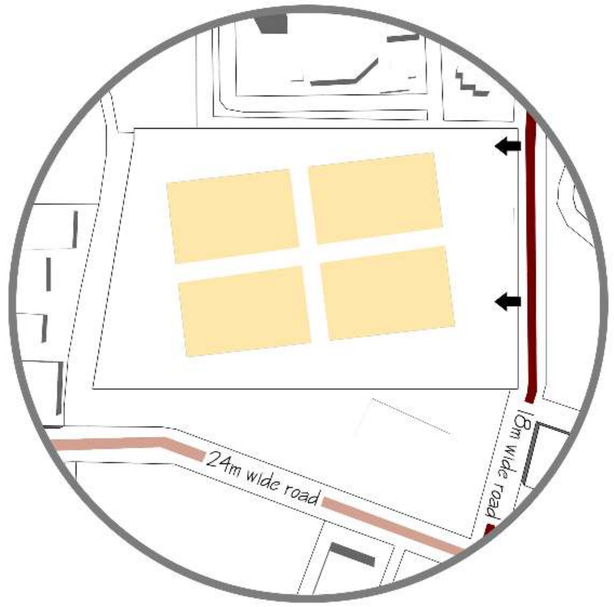
ORIENTING BUILDING BLOCK AS PER CLIMATE ANALYSIS



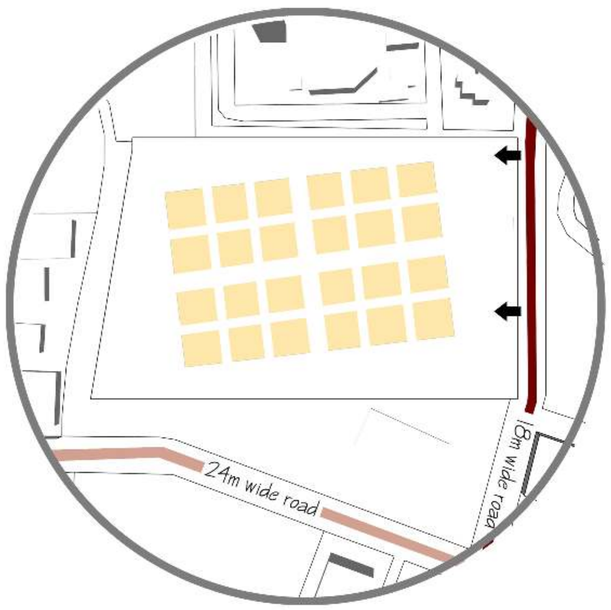
DIVIDING THE BLOCK INTO TWO PARTS



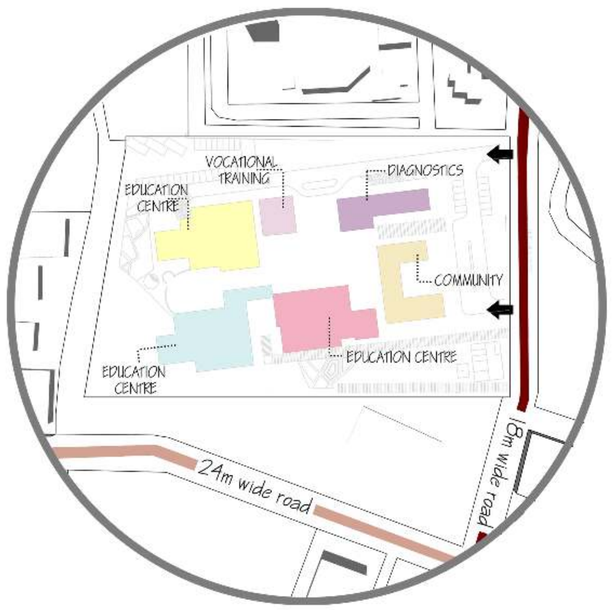
FURTHER DIVIDING BLOCKS TO CREATE SPACES



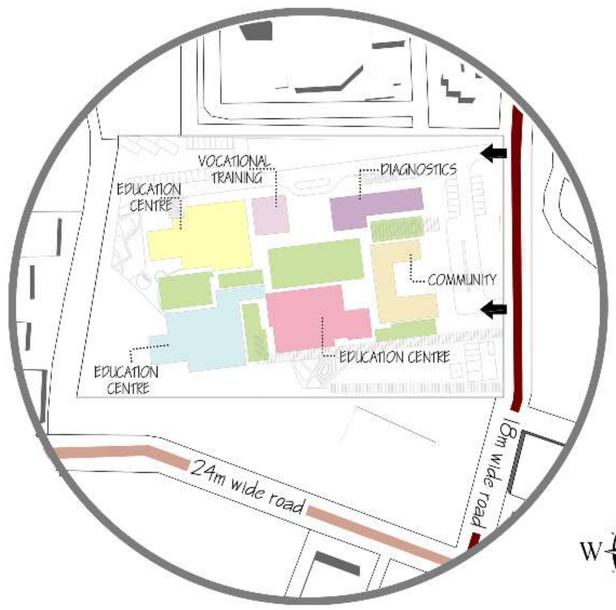
FORMATION OF MULTIPLE SPACES THROUGH DIVIDING



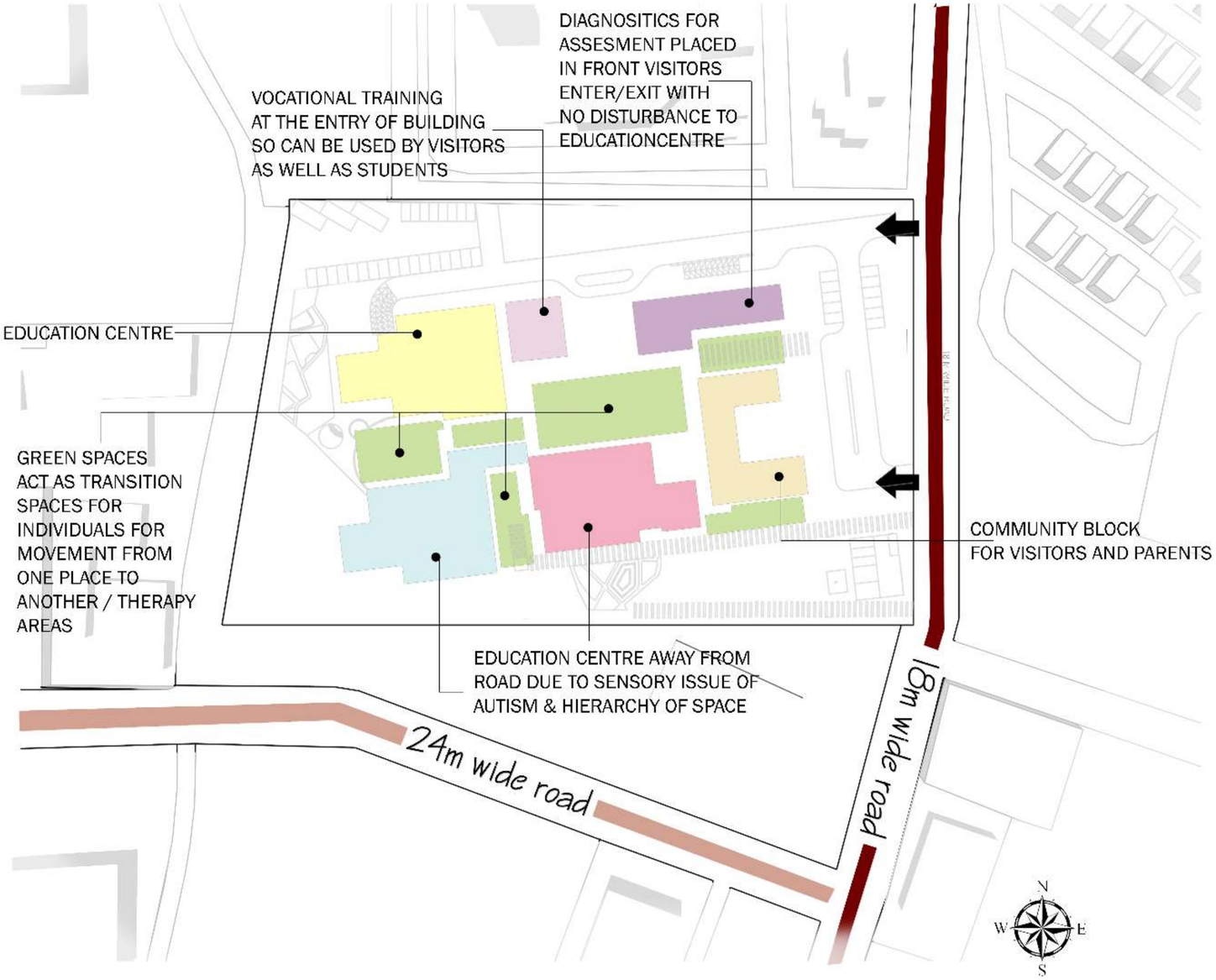
ADJUSTING BLOCKS TO CREATE OPEN SPACES B/W THEM



ADDITION OF OPEN SPACES/ TRANSITION SPACES

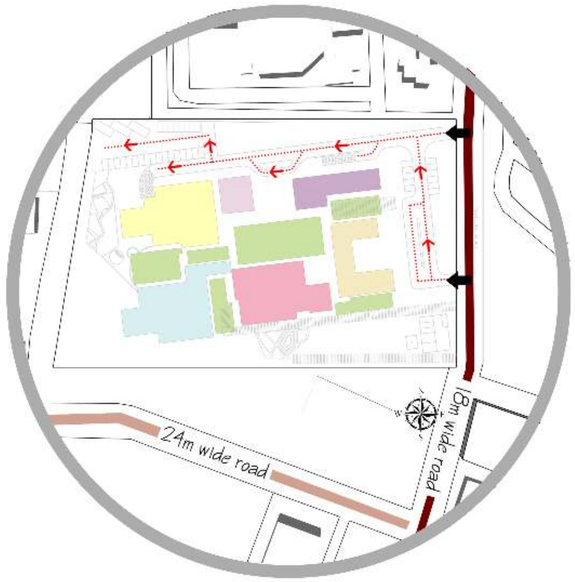


CONCEPTUAL ZONING

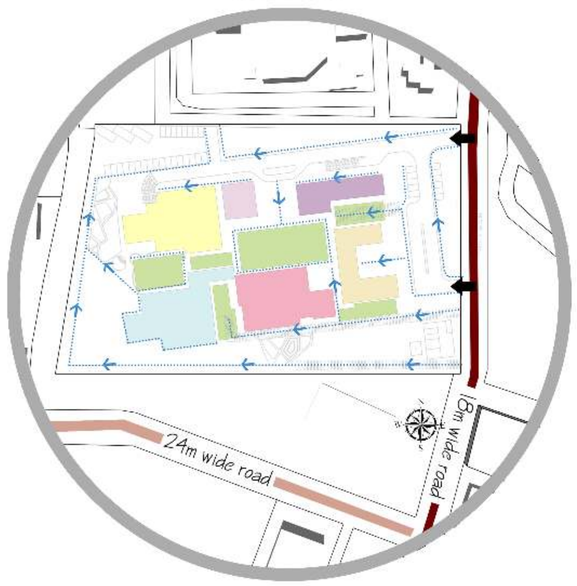


FIRE TENDER MOVEMENT

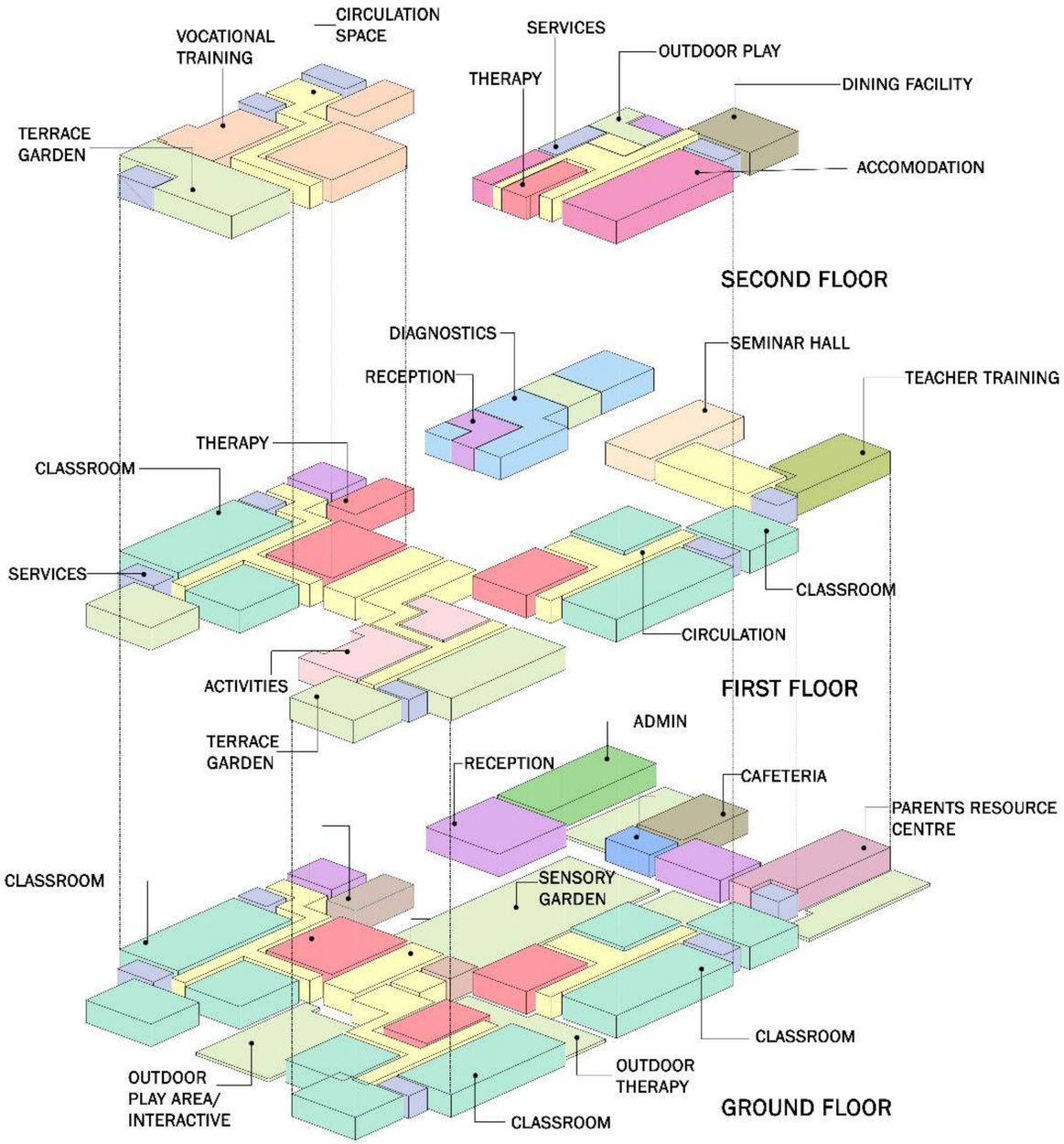
VEHICULAR MOVEMENT



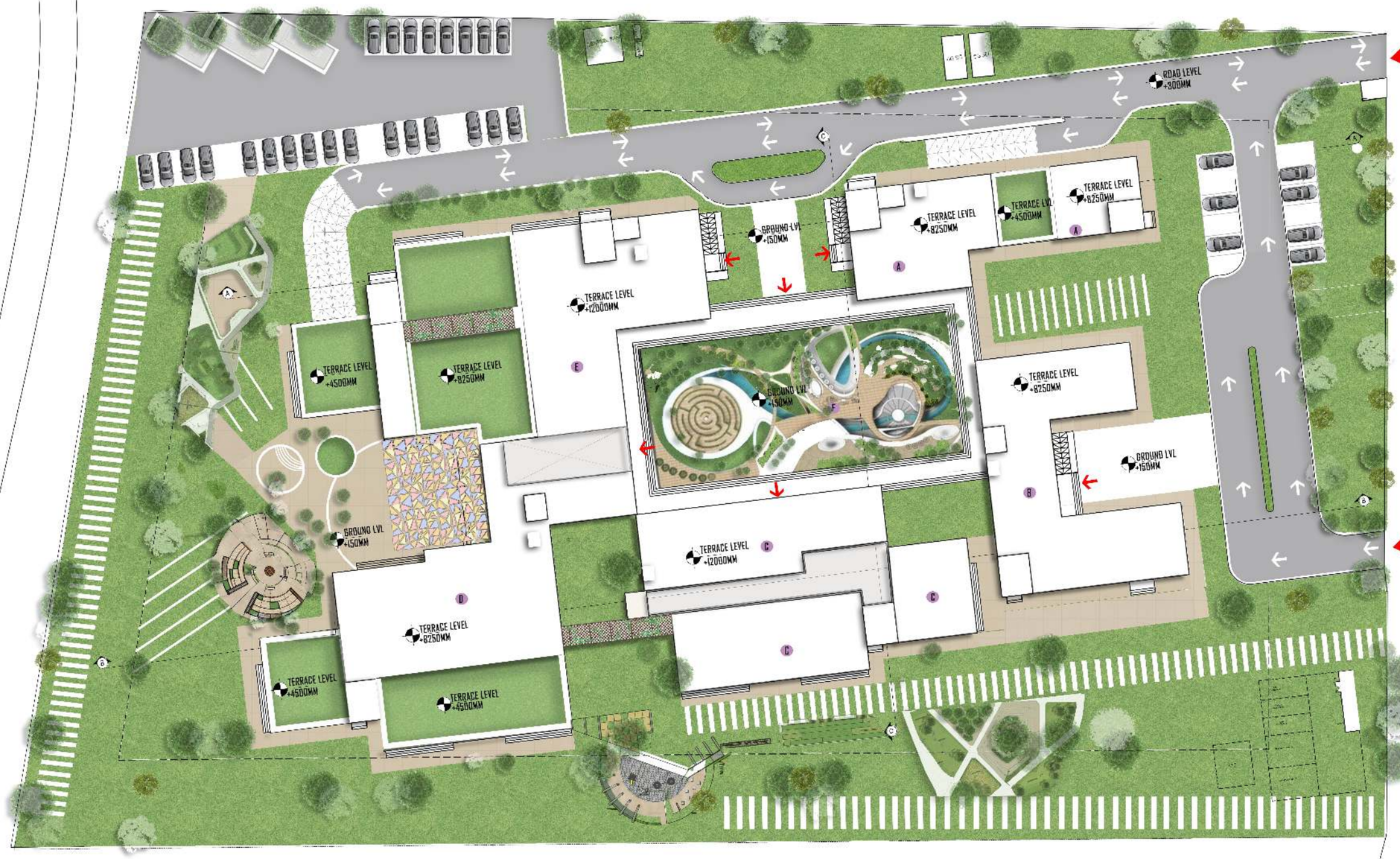
PEDESTRIAN MOVEMENT



VERTICAL ZONING



SITE PLAN



A ADMIN & DIAGNOSTICS

B COMMUNITY BLOCK

C EDUCATION CENTRE : LEVEL 2 AUTISM

D EDUCATION CENTRE : LEVEL 1 AUTISM

E VOCATIONAL CENTRE EDUCATION CENTRE : LEVEL 3 AUTISM

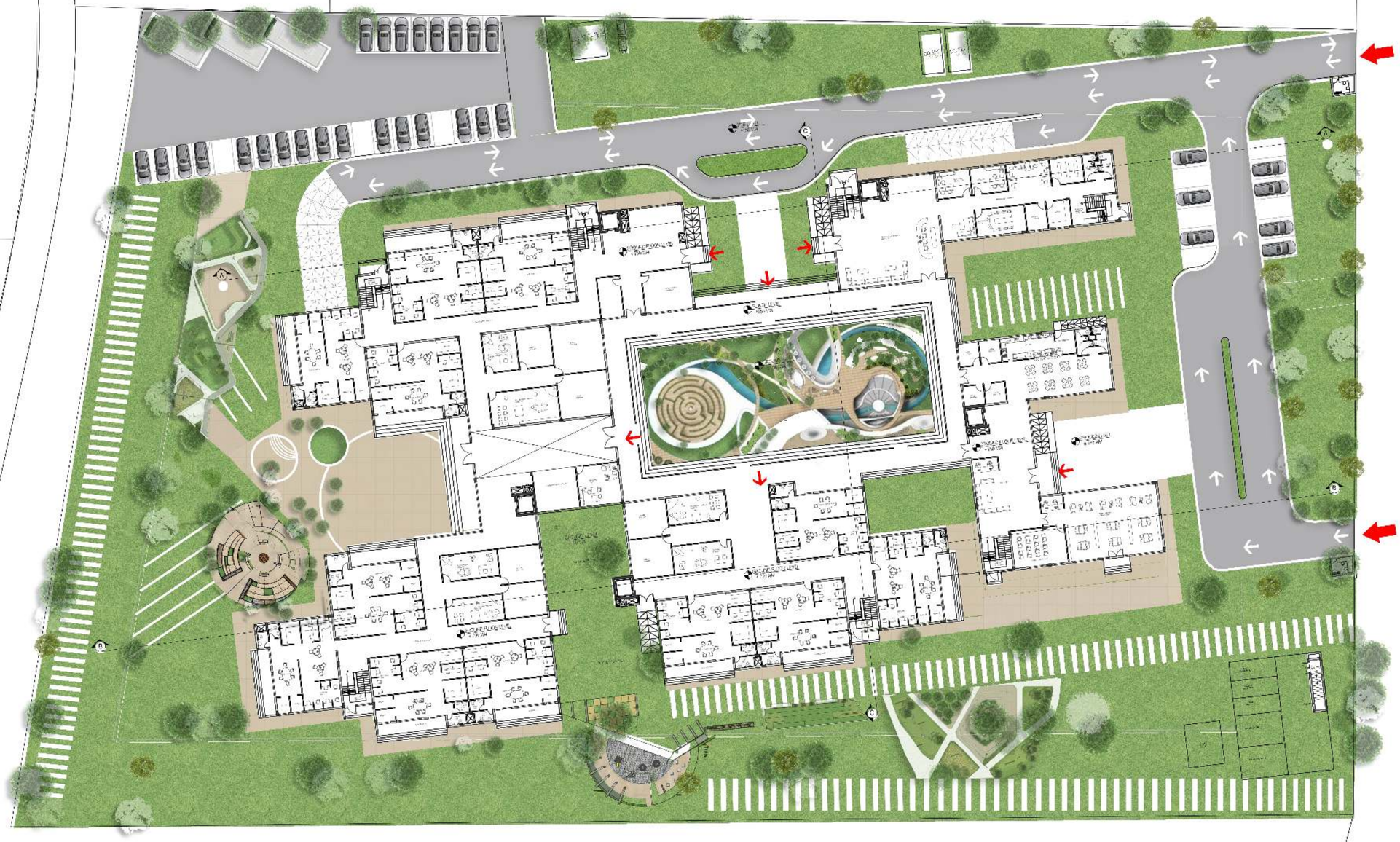
F SENSORY GARDEN

N
W E
S

SCALE 1:250

3D VIEWS

GROUND FLOOR PLAN

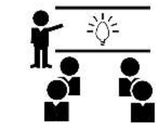


N
W
E
S

SCALE 1:250

CLASSROOM

ACTIVITIES



LEARNING

GROUP

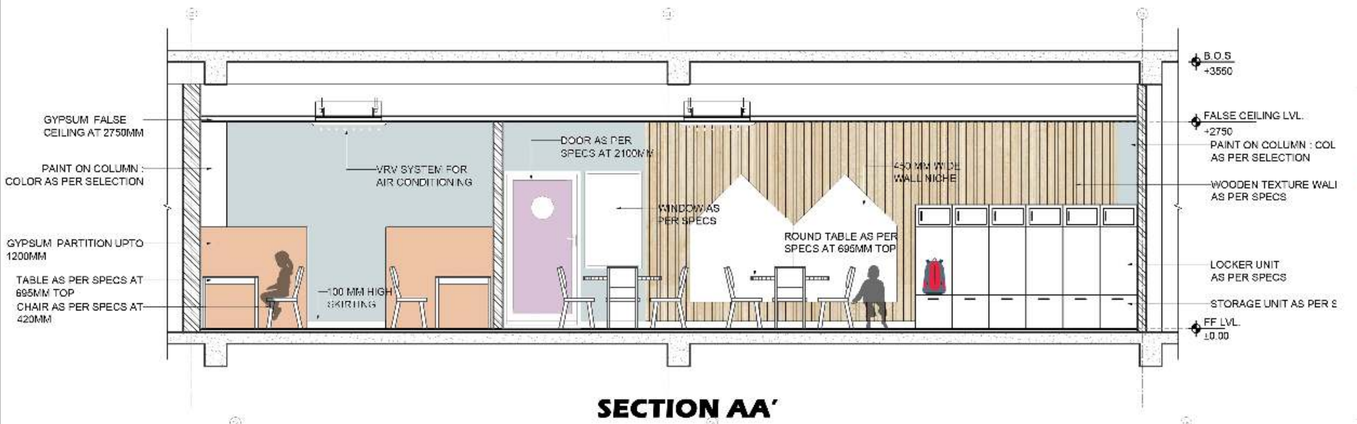
INTERACTIVE PLAY

SENSORY

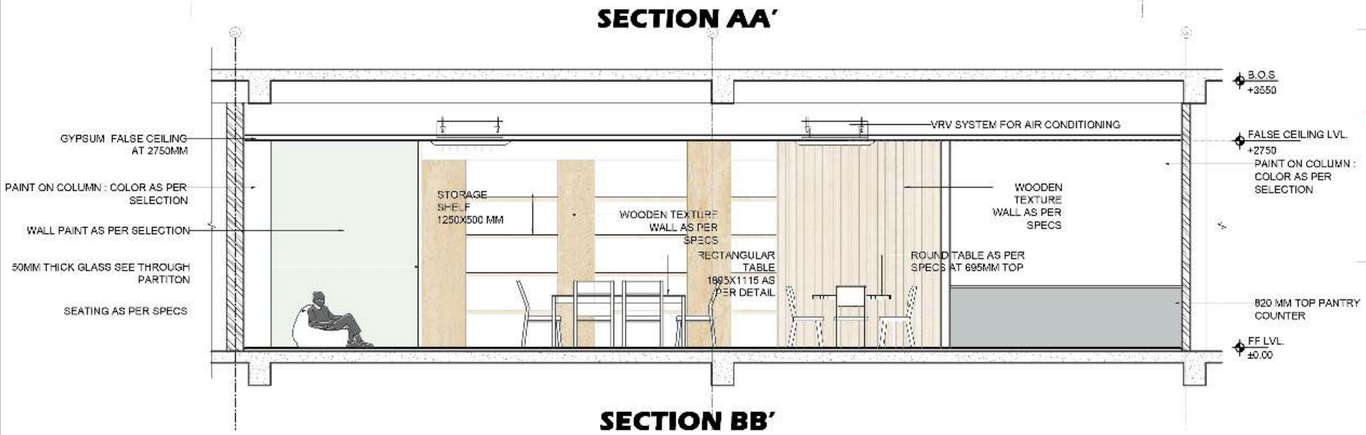
SPATIAL SEQUENCING

Zones in classroom are divided on the basis of their functions i.e high focus and low focus areas.

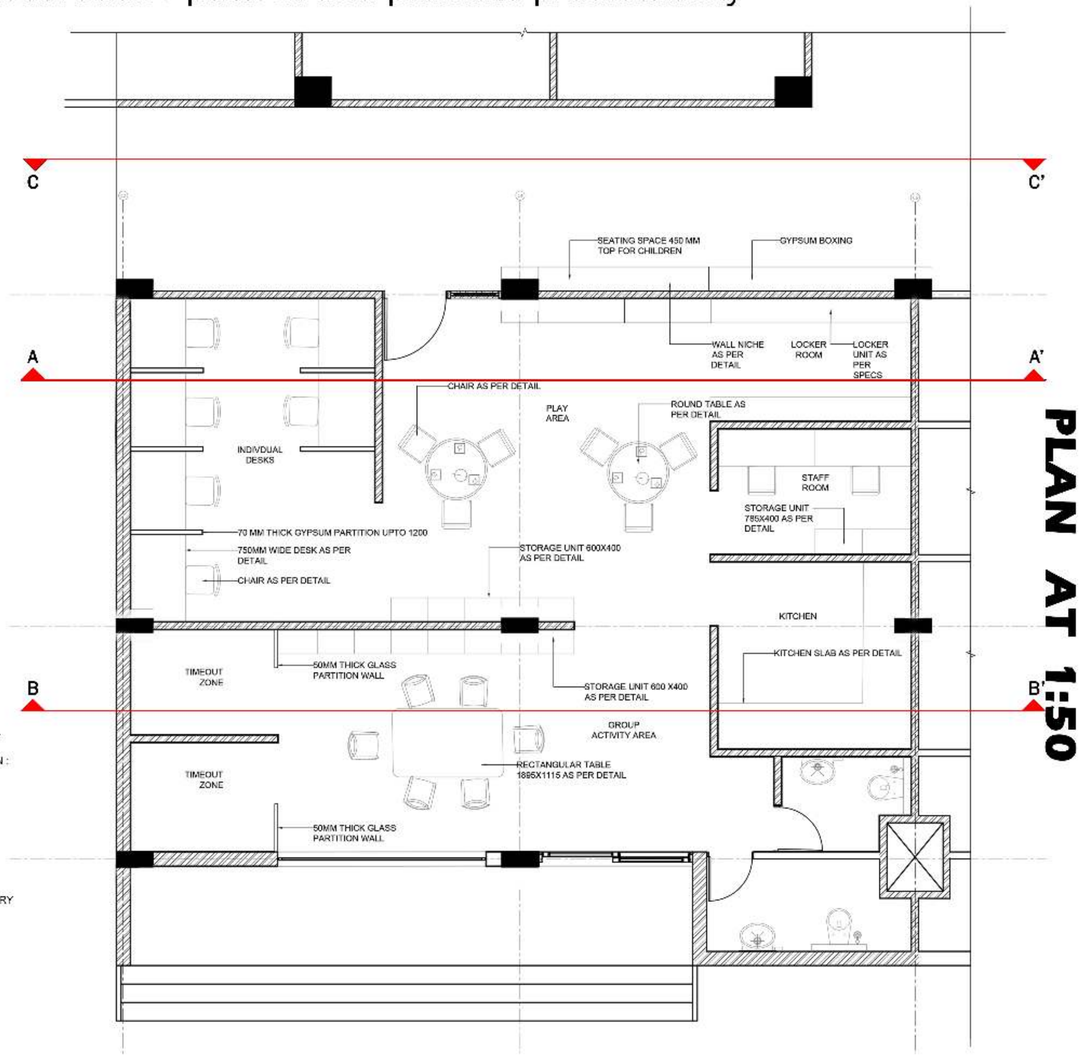
The different activities within the classroom also helps them to associate an activity with specific zone which will ease the transitions b/w activities, protect routine pattern and promote predictability



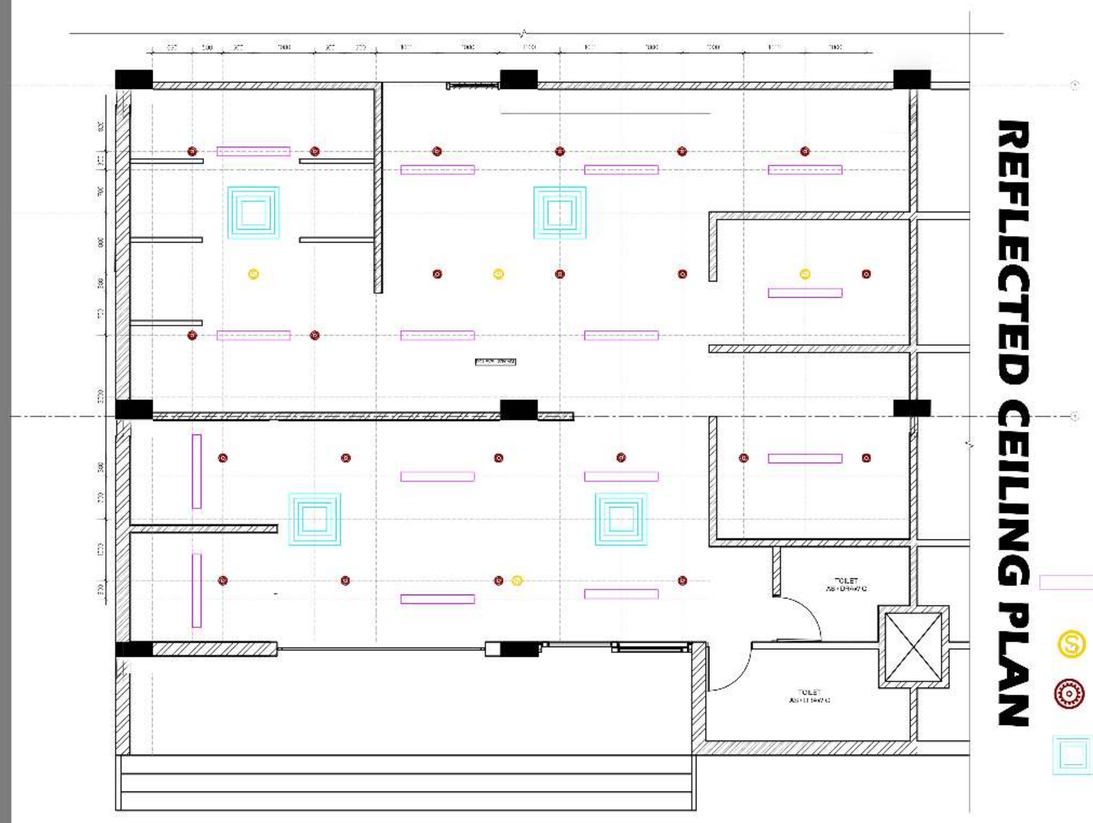
SECTION AA'



SECTION BB'



PLAN AT 1:50



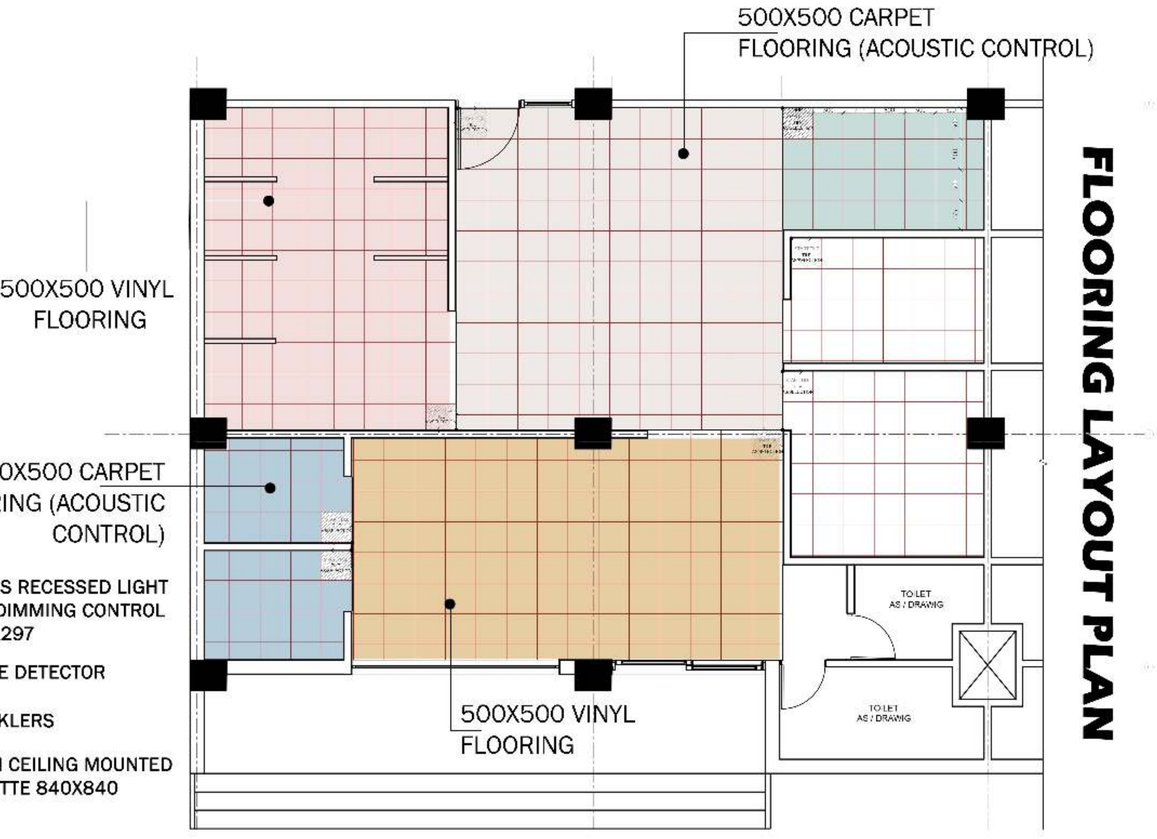
REFLECTED CEILING PLAN

PHILIPS RECESSED LIGHT WITH DIMMING CONTROL 1197X297

SMOKE DETECTOR

SPRINKLERS

DAIKIN CEILING MOUNTED CASSETTE 840X840



FLOORING LAYOUT PLAN

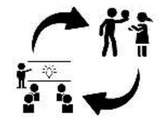
NOTE : DIFFERENT COLOR IN FLOORING HAVE BEEN DONE SO AS TO DIFFERENCIATE ONE SPACE FROM ANOTHER AND HELP IN EASY WAY FINDING

CORRIDOR

SPATIAL IDEOLOGY

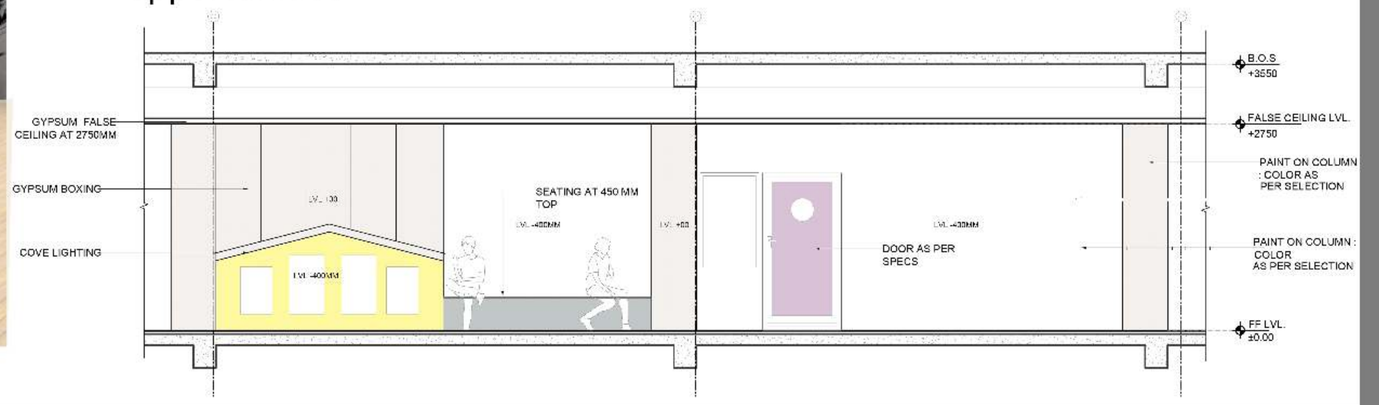
Widened corridor to create meandering main street presence filled with special features to encourge spontaneous learning opportunities

ACTIVITIES



TRANSITION AREA

INTERACTIVE PLAY

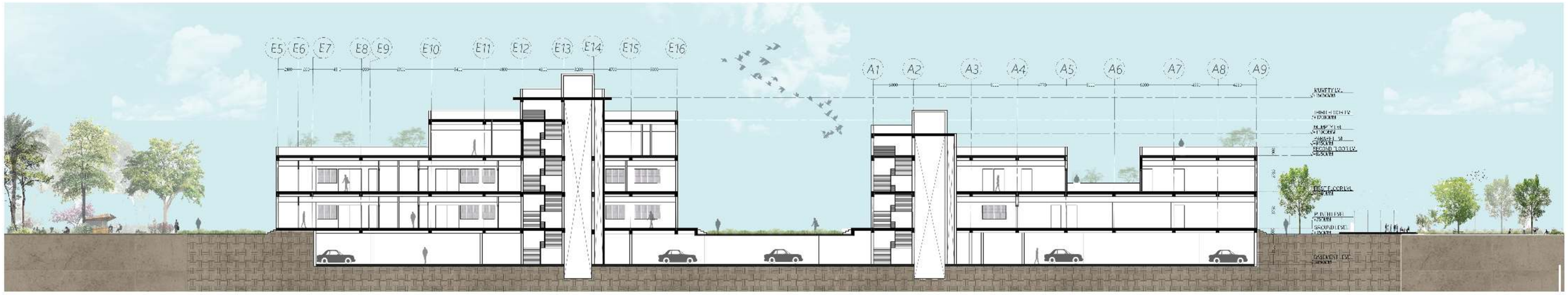


ELEVATIONS

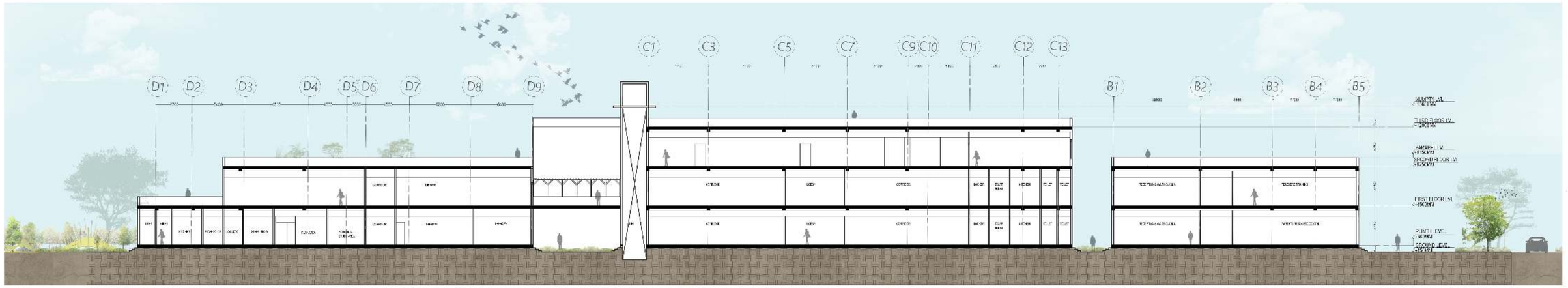
SOUTH ELEVATION

NORTH ELEVATION

SECTIONS



SECTION AA'



SECTION BB'

SECTION CC'

SCALE 1:200

3D VIEWS

3D VIEWS

3D VIEWS

3D VIEWS

3D VIEWS