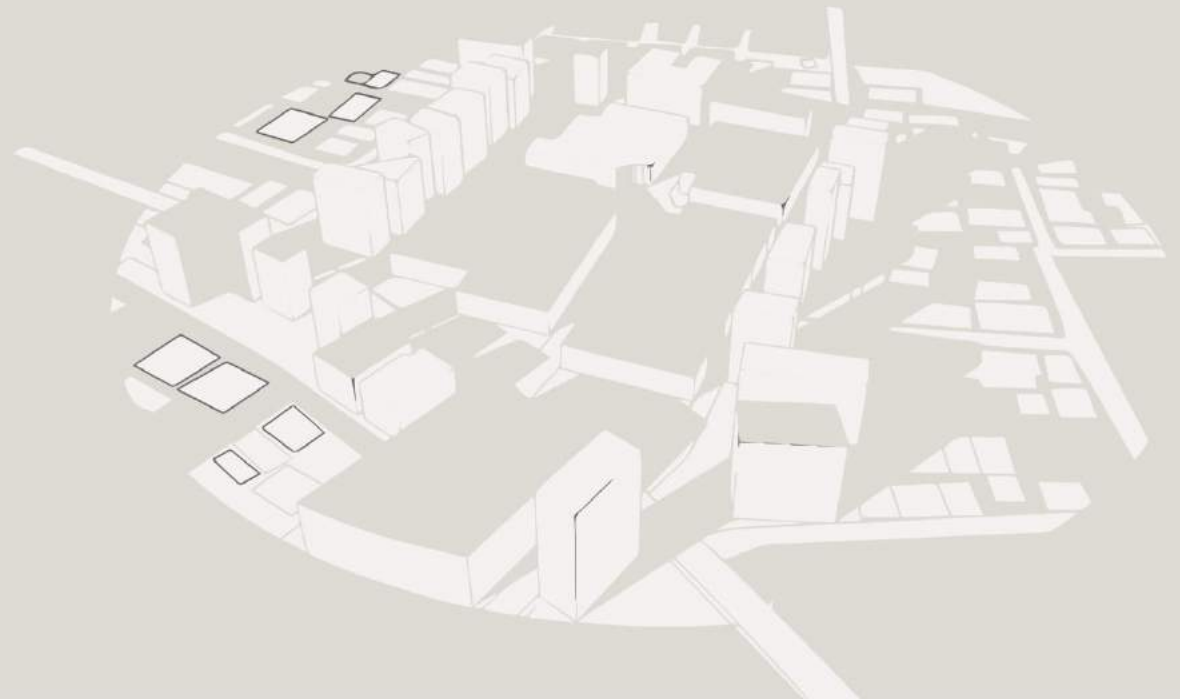


PORTFOLIO VII

ARC 401_DESIGN VII

ANANNA AHMED

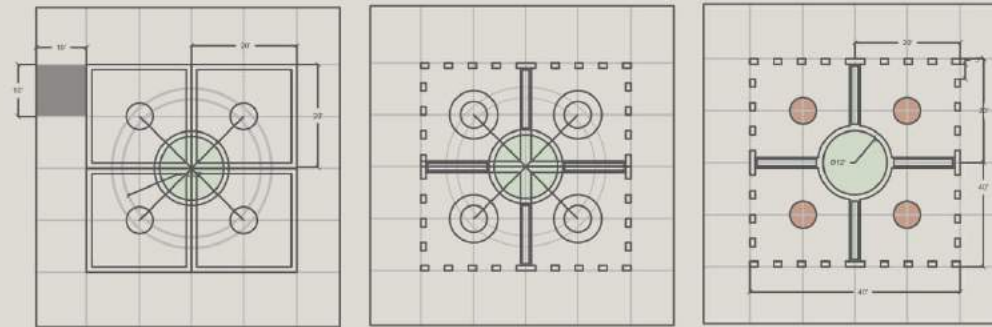
17308019



CONTENT

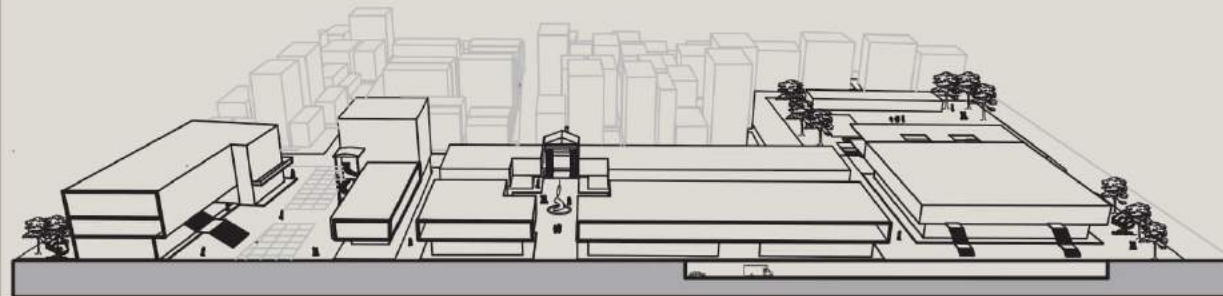
PROJECT 01-

IDENTIFYING A PROPER GRID FOR DISTANCING IN AN INFORMAL PUBLIC SPACE



PROJECT 02-

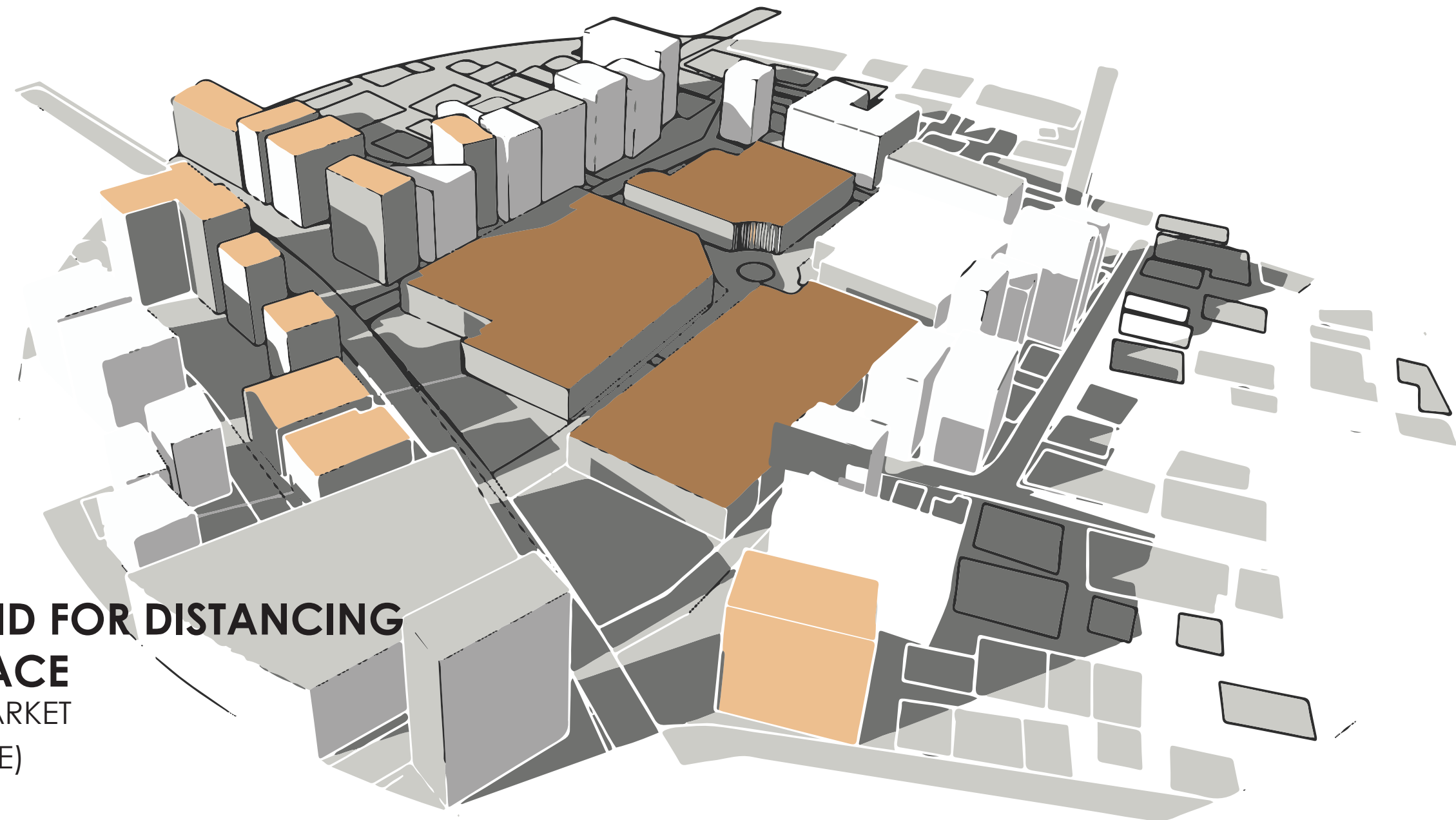
REVIVING MOHAMMADPUR TOWNHALL MARKET



KHILGAON THANA

TOTAL AREA: 14.02km²

POPULATION DENSITY: 16000/km²



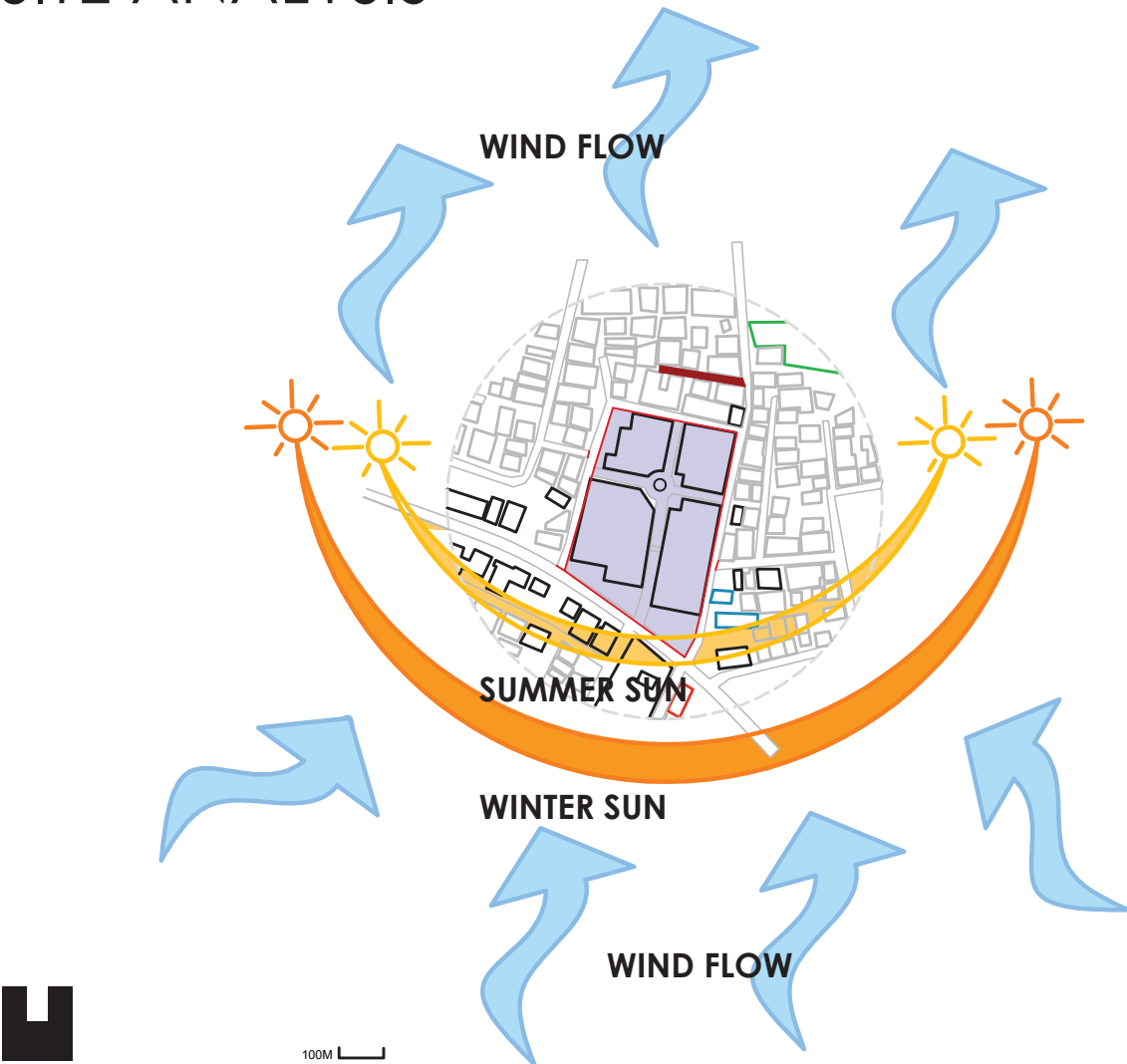
IDENTIFYING A PROPER GRID FOR DISTANCING IN A INFORMAL PUBLIC SPACE

LOCATION: KHILGAON THALTOLA MARKET

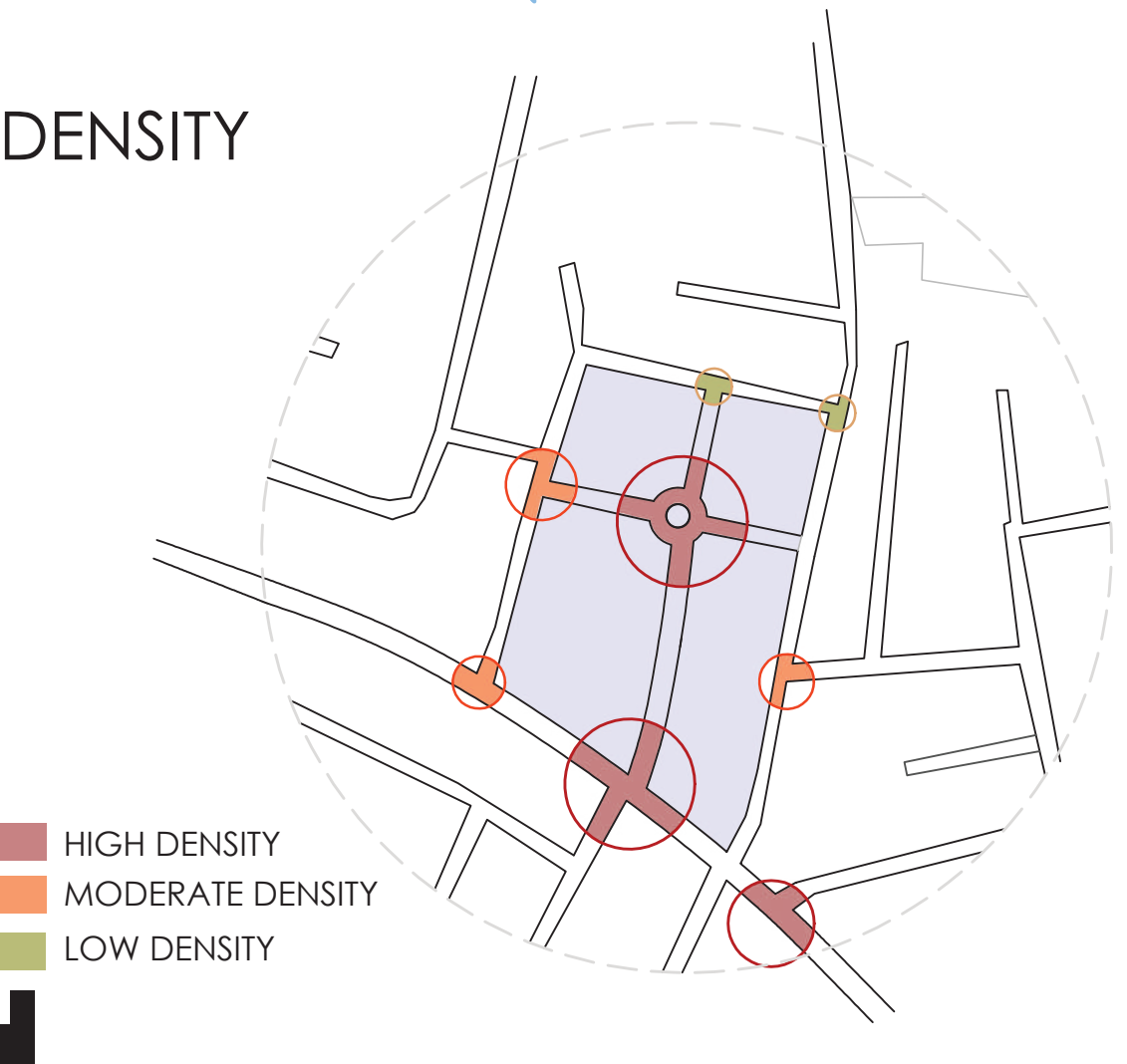
(INFORMAL PUBLIC SPACE)

ANANNA AHMED (17308019)

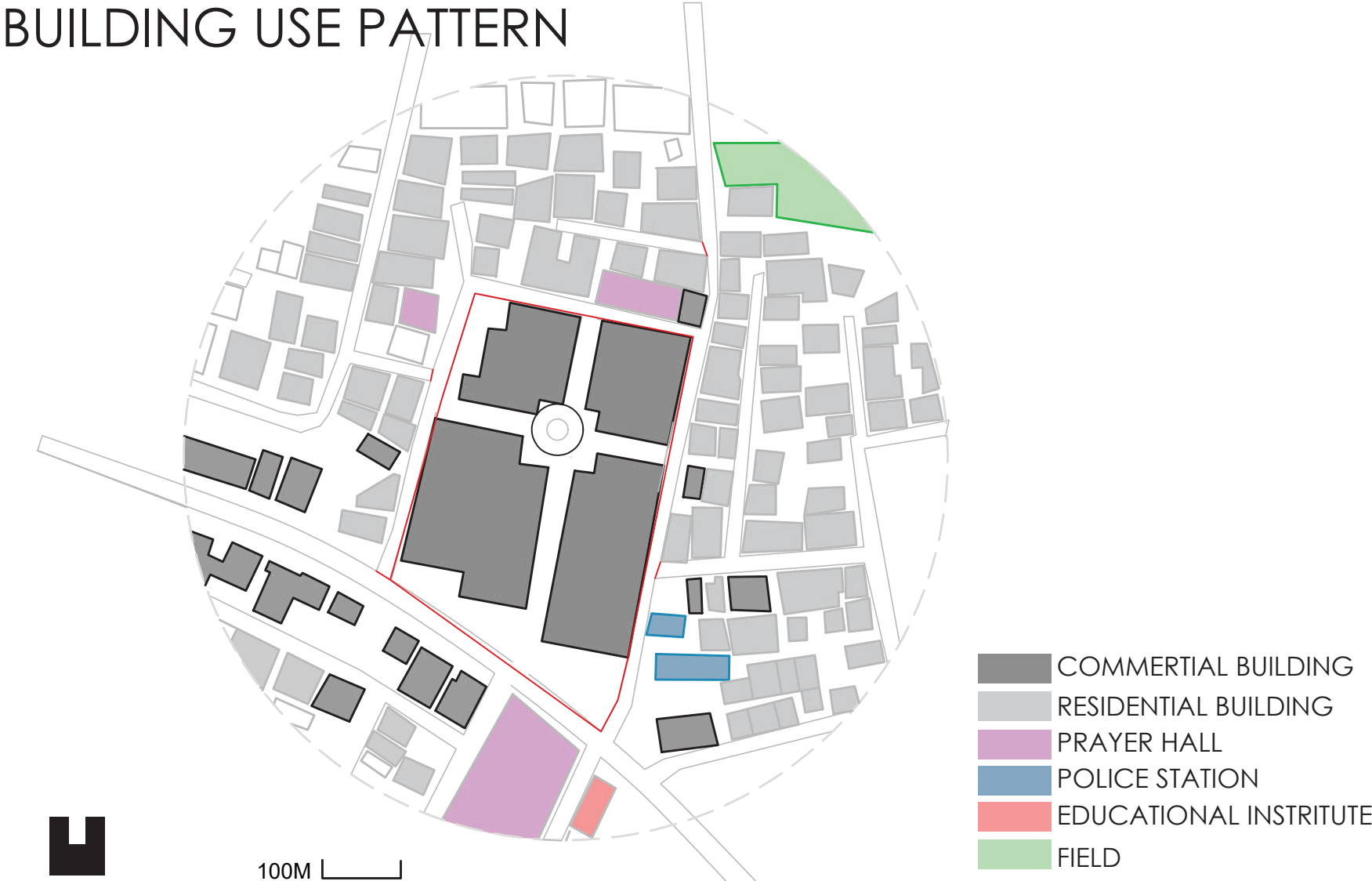
SITE ANALYSIS



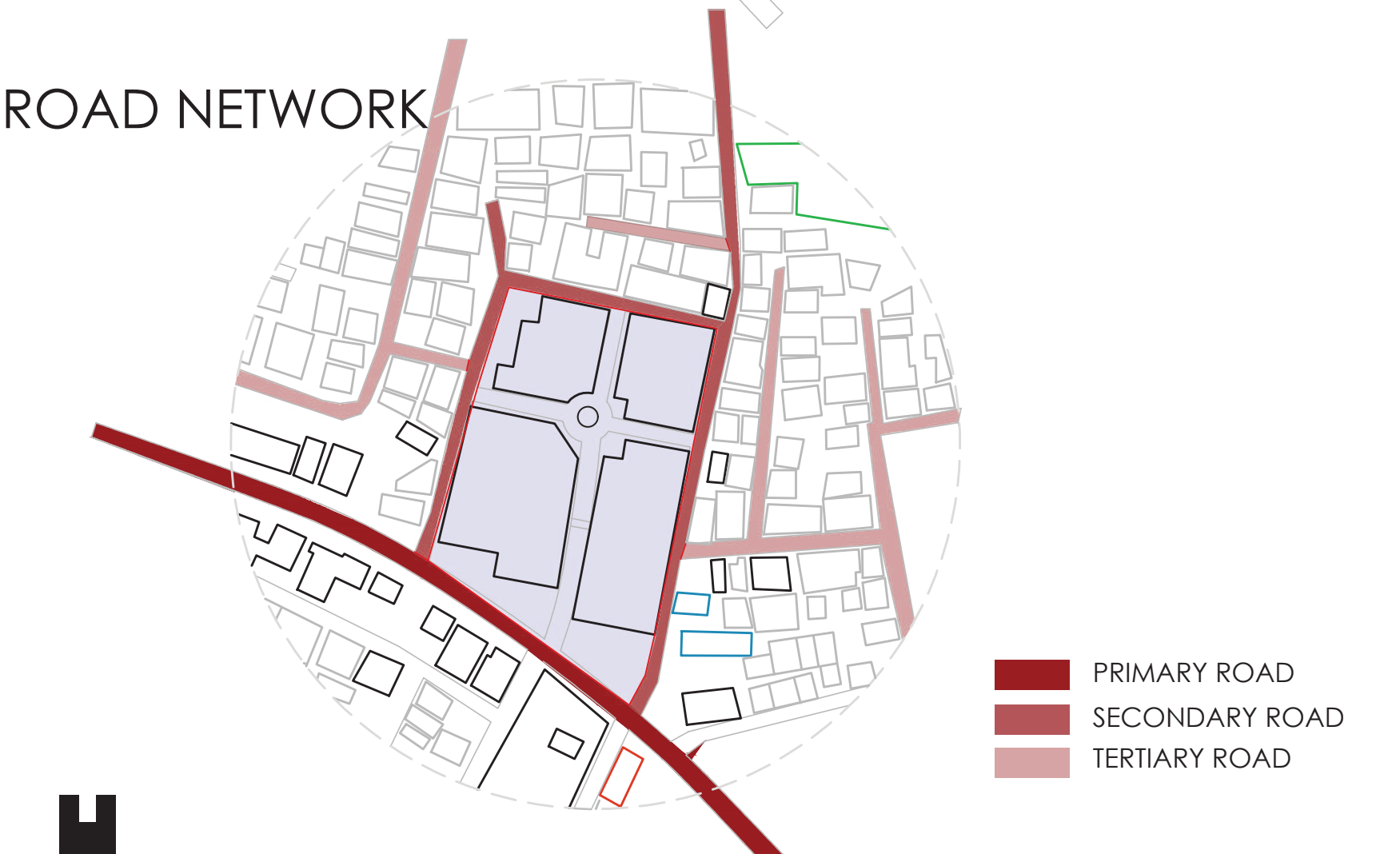
DENSITY



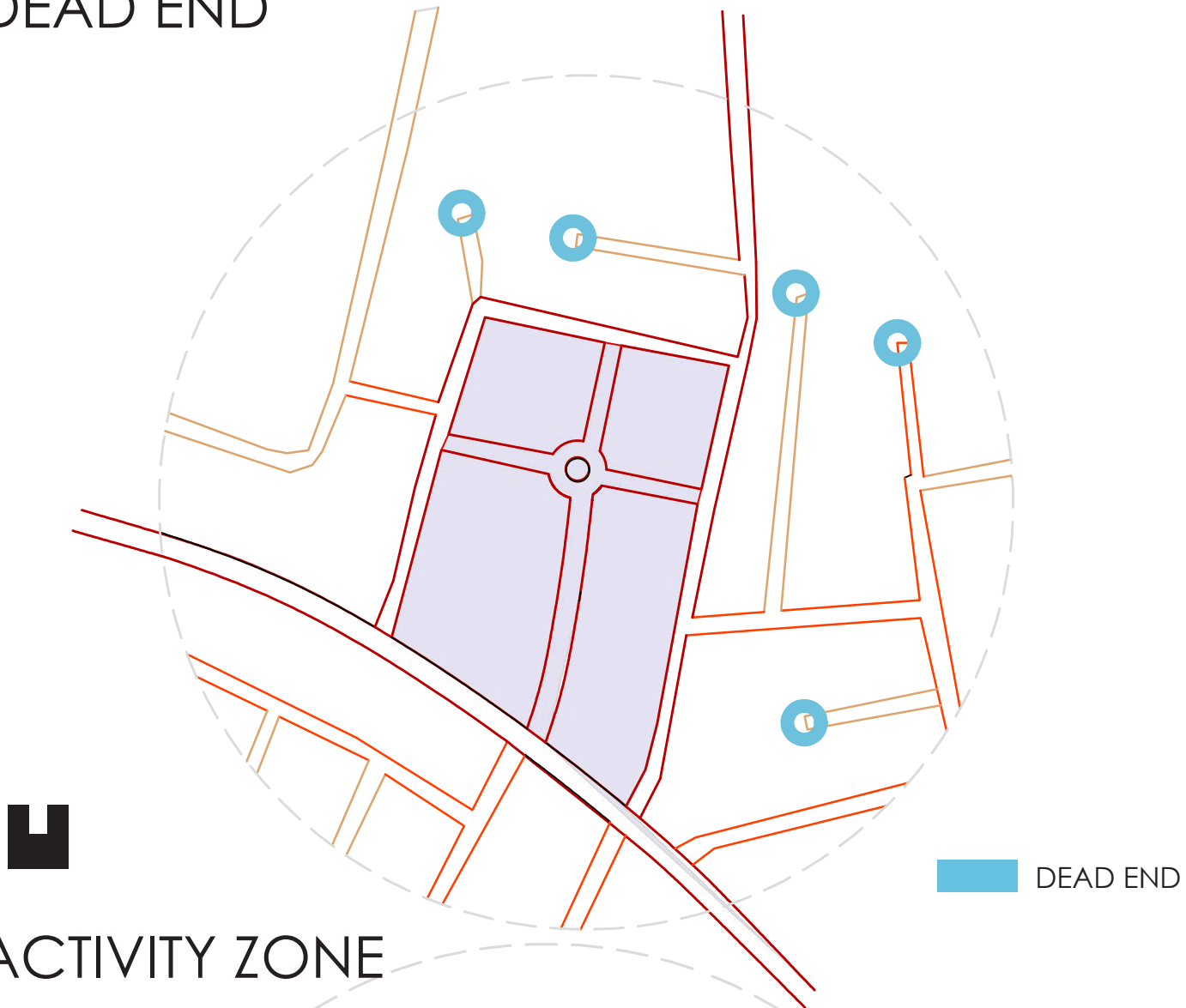
BUILDING USE PATTERN



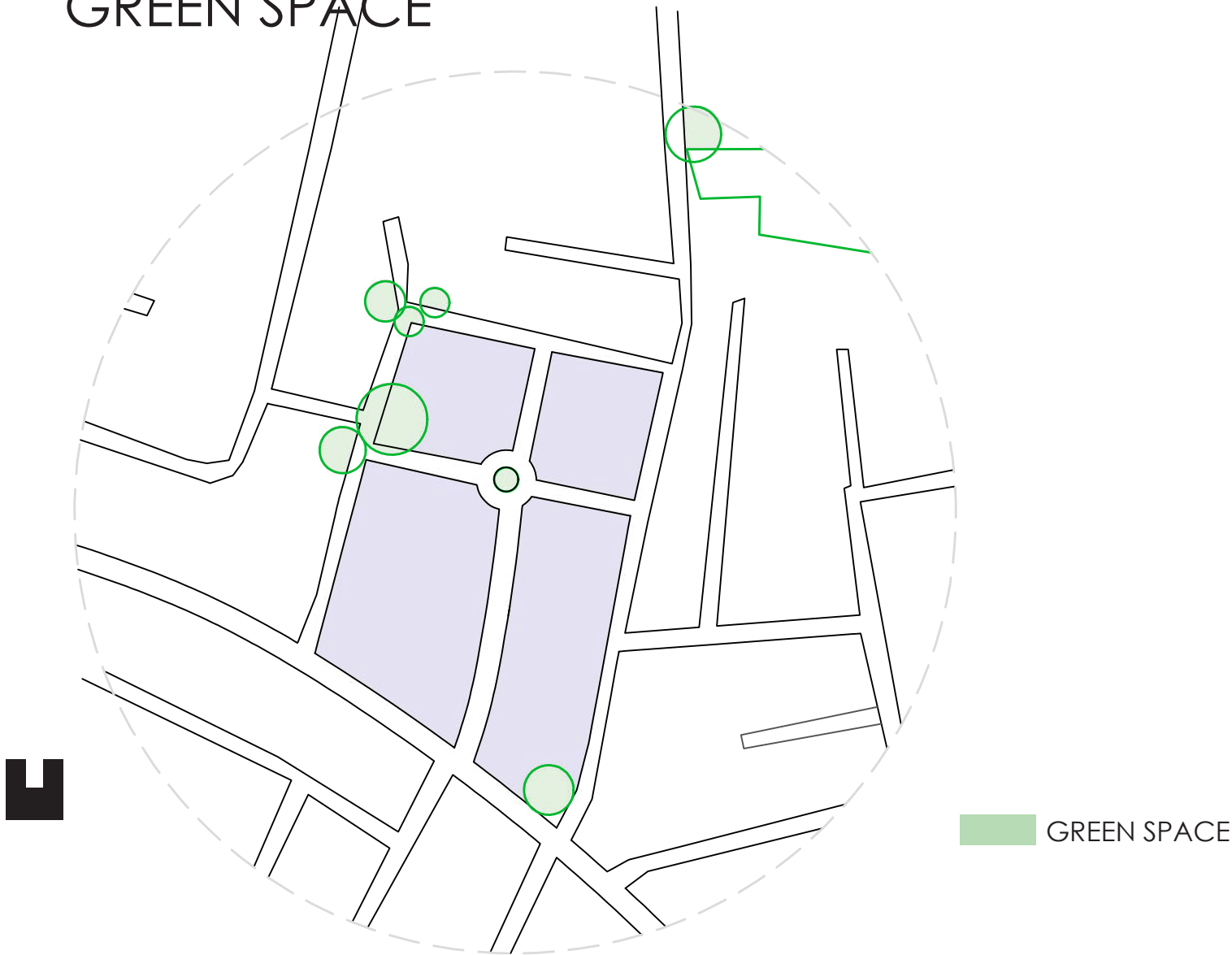
ROAD NETWORK



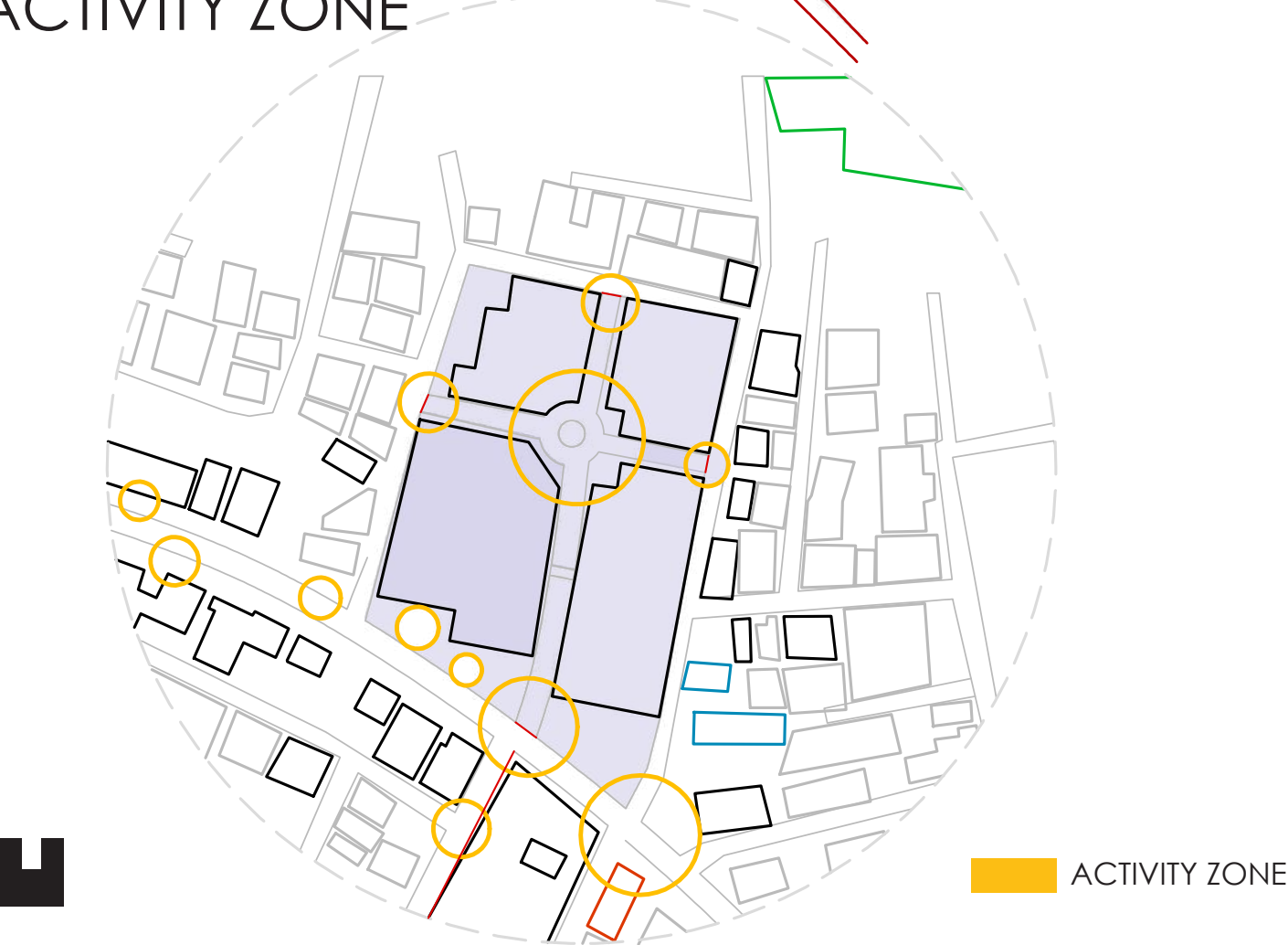
DEAD END



GREEN SPACE



ACTIVITY ZONE

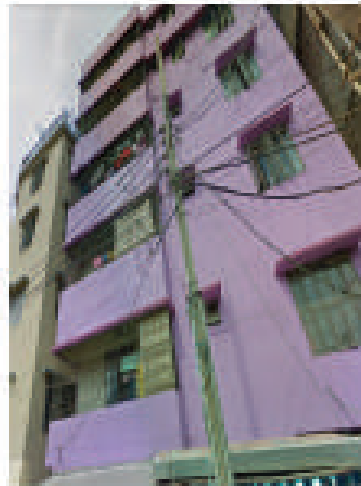


BUILDING USE PATTERN AND CONNECTIVITY

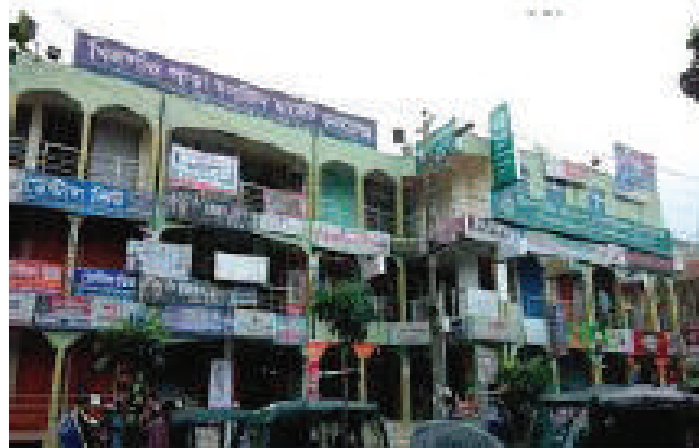
-VERIOUS USER GROUP COMES FROM DIFFERENT TYPE OF USER STRUCTURE, SURROUNDED AROUND THE SITE

DIFFERENT AGE GROUP PEOPLE GATHER IN ONE PLACE. WHICH MAKES THE PLACE MORE INTERACTIVE.

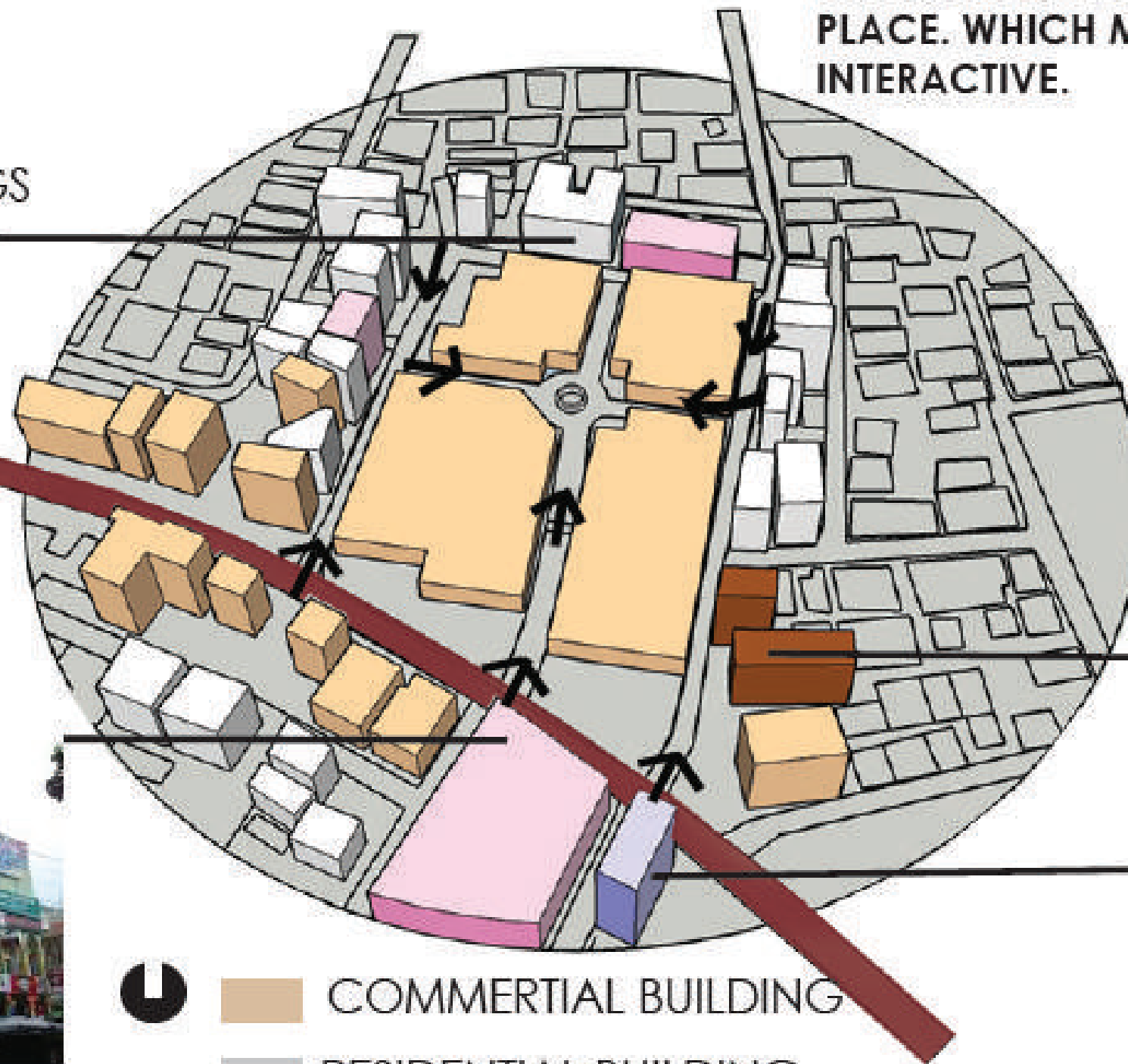
RESIDENTIAL BUILDINGS



KHILGAON THANA



PAKA MOSQUE

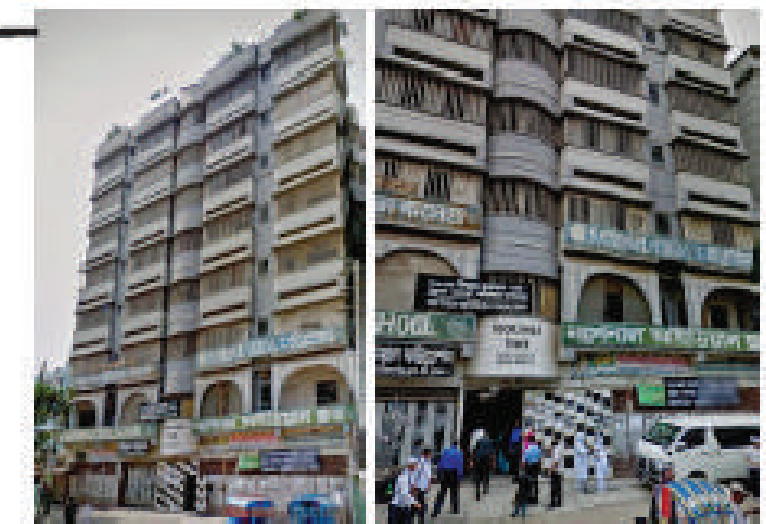


COMMERTIAL BUILDING

RESIDENTIAL BUILDING

PRAYER HALL

EDUCATIONAL INSTRITUTE



NATIONAL IDEAL SCHOOL

ACTIVITY INTENSITY ZONE



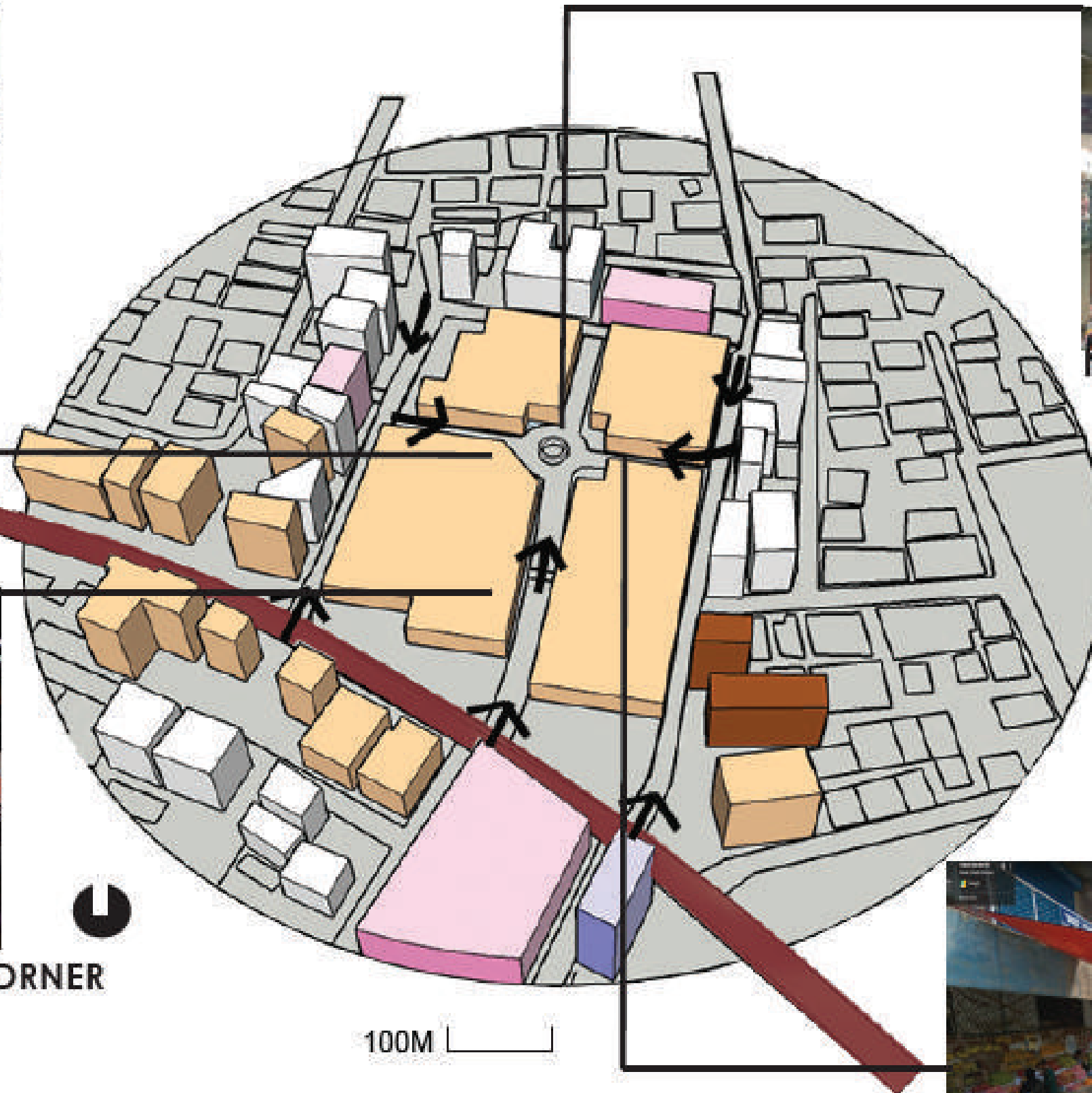
WEST ZONE



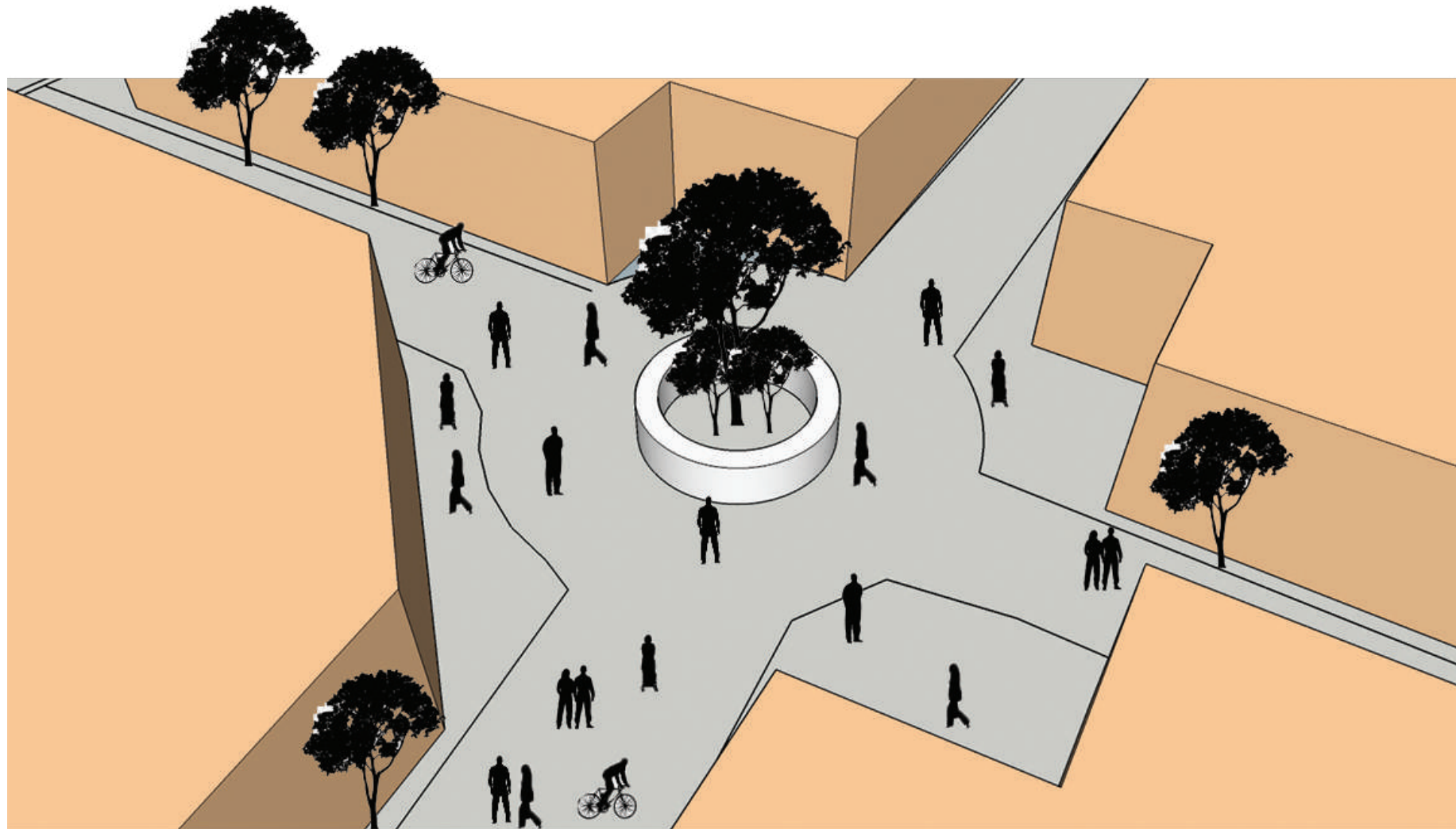
NORTH ZONE



CENTER AND SOUTH EAST CORNER



EAST ZONE



GENDER



AGE

30-60

20-30
30-60

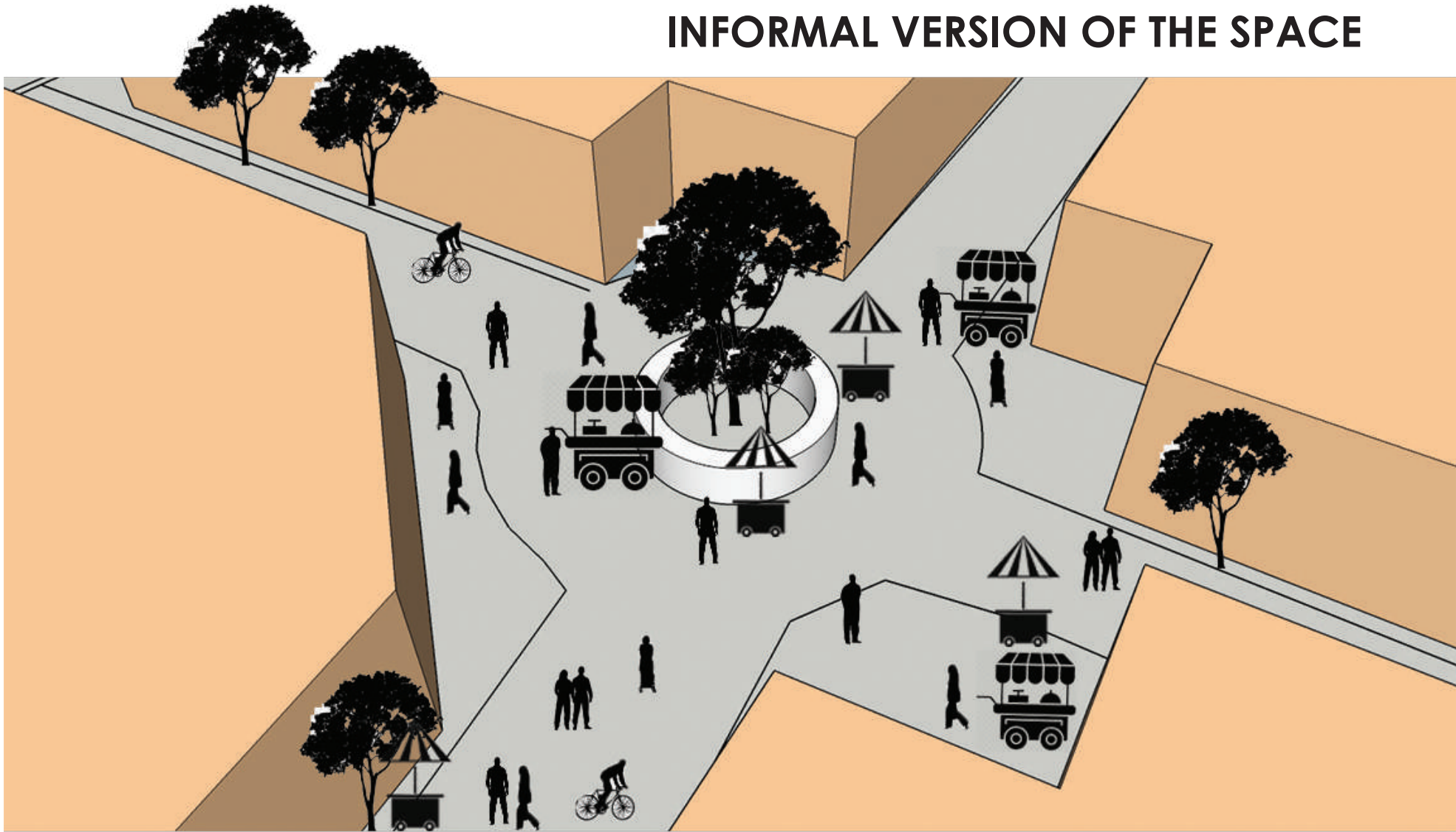
5- 20

ACTIVITIES

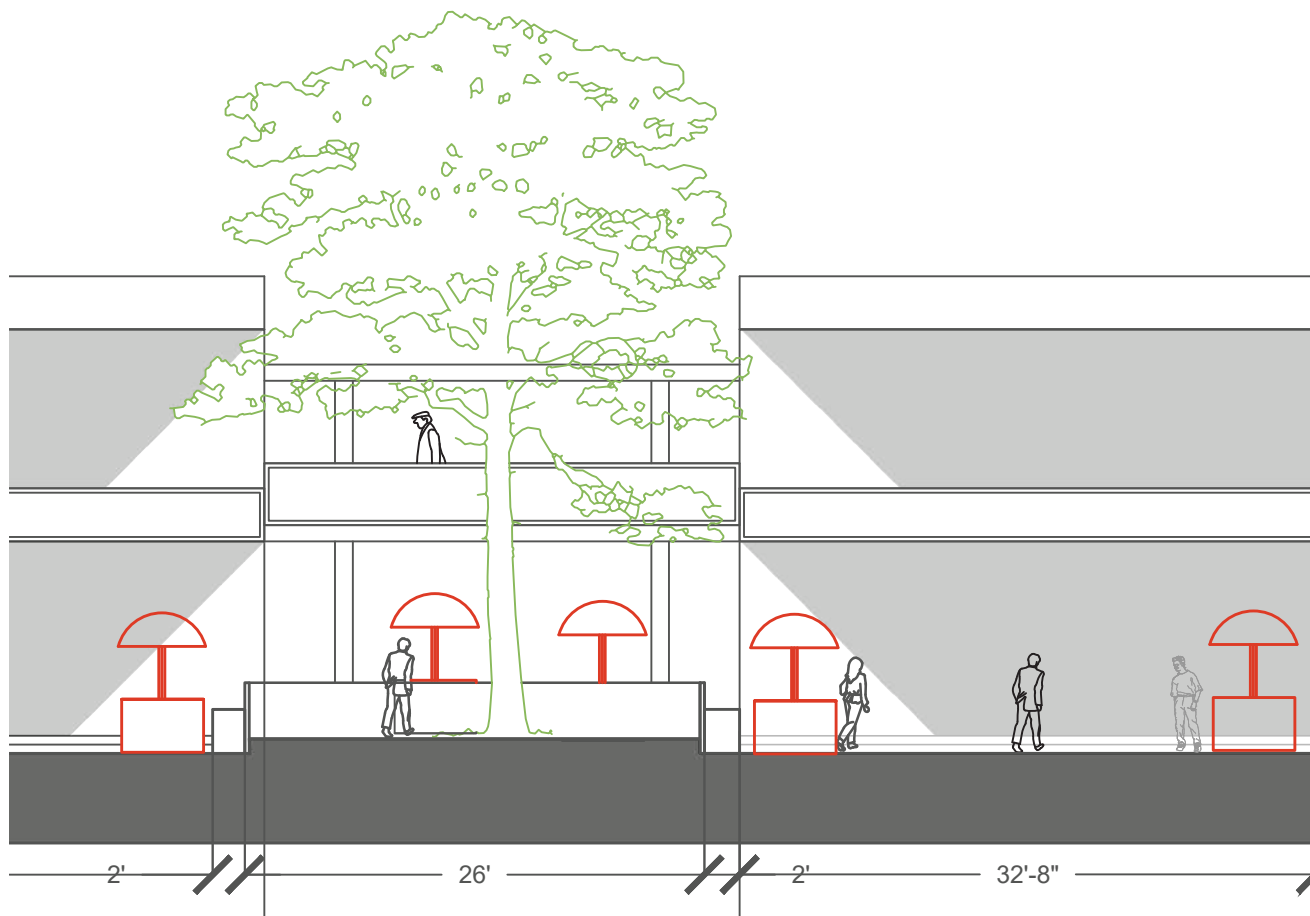
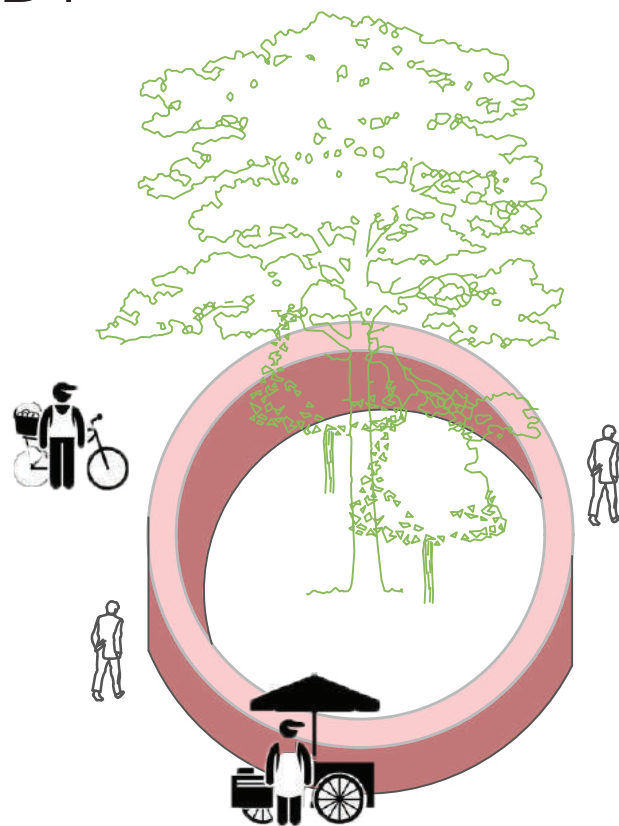


FORMAL LAYER OF THAT SPACE

INFORMAL VERSION OF THE SPACE



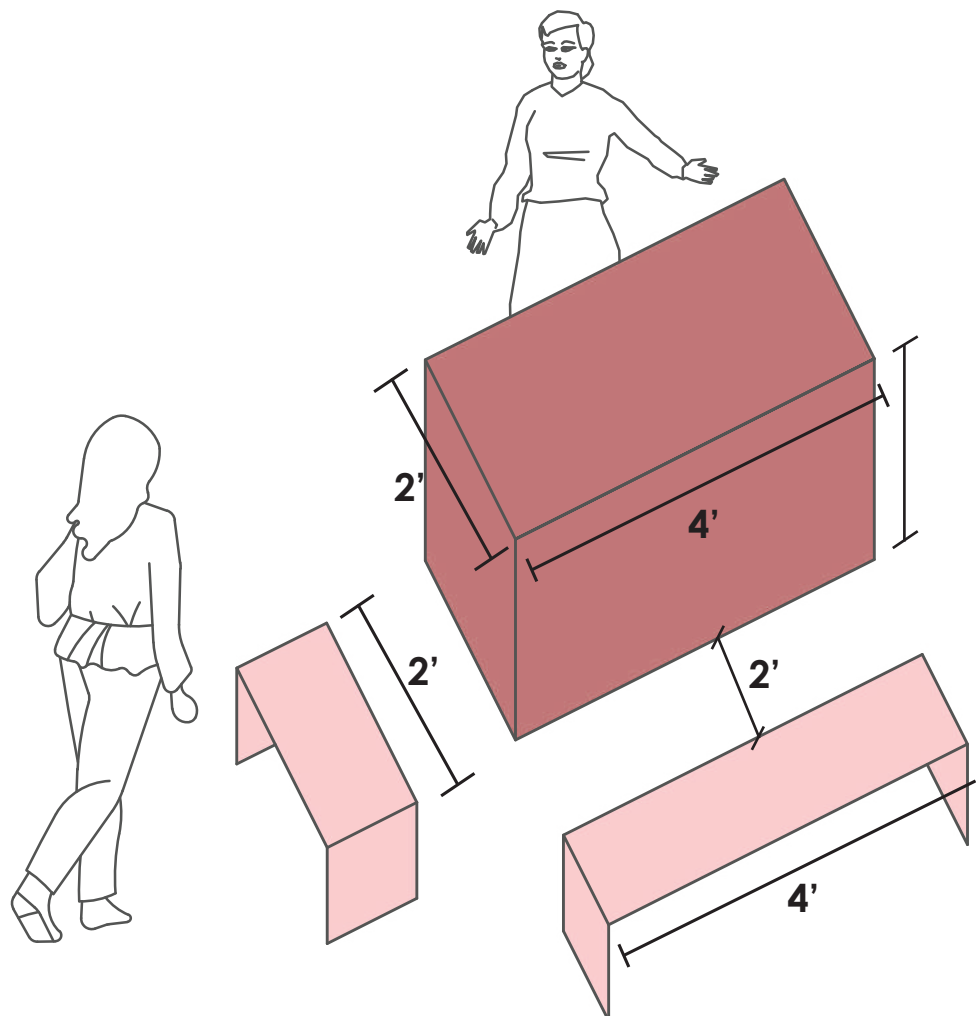
DETAILED STUDY



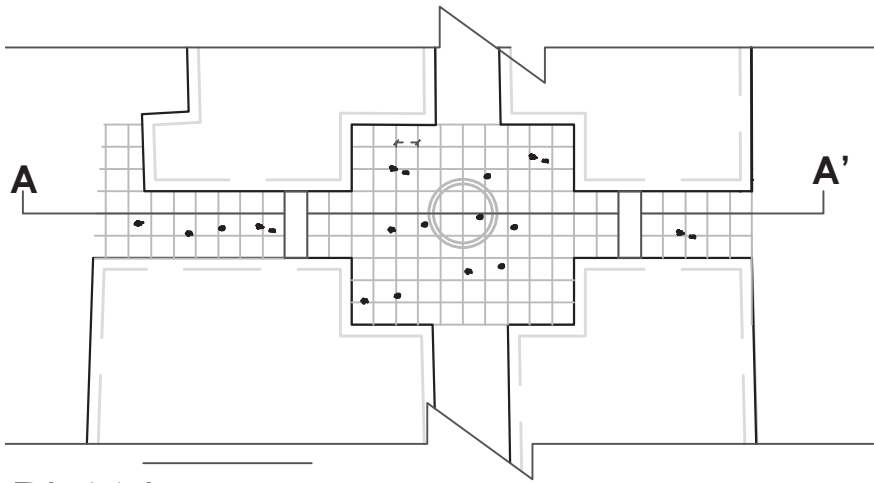
CENTER POINT



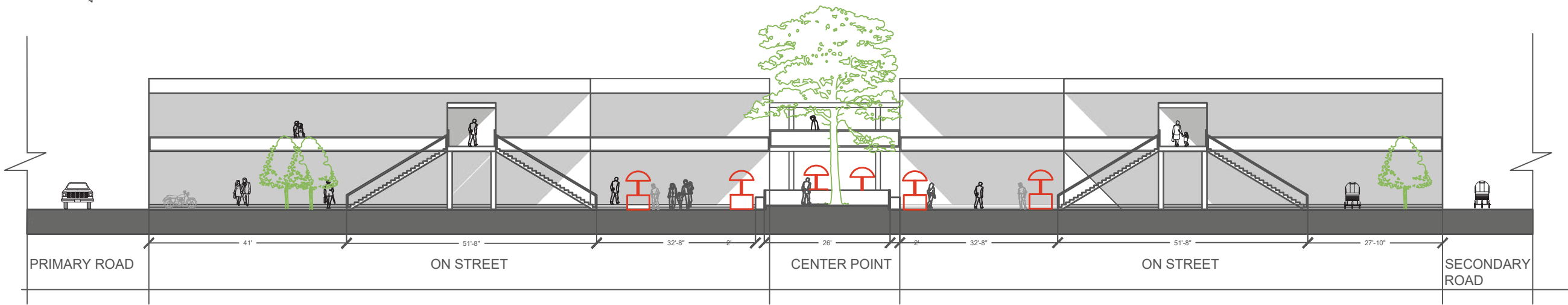
DETAIL OF FOOD CART



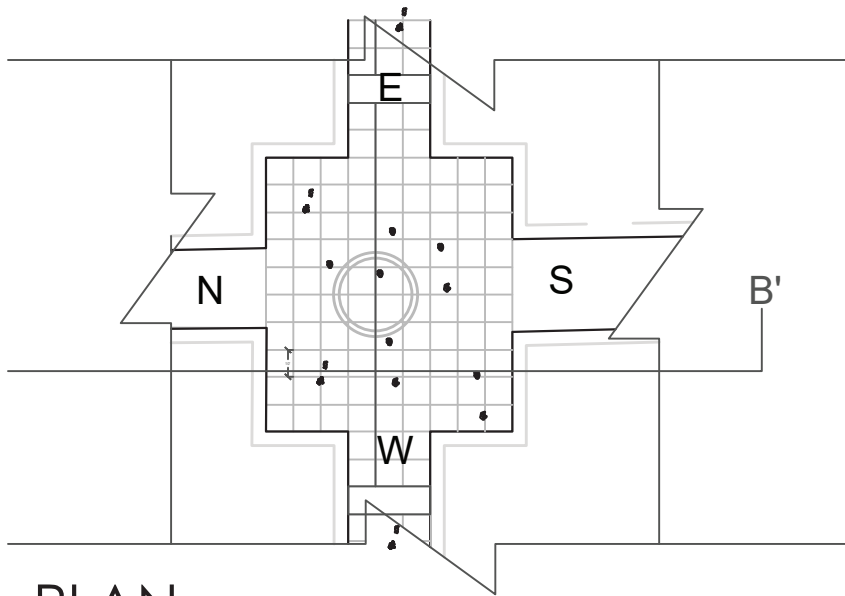
35 SQF AREA



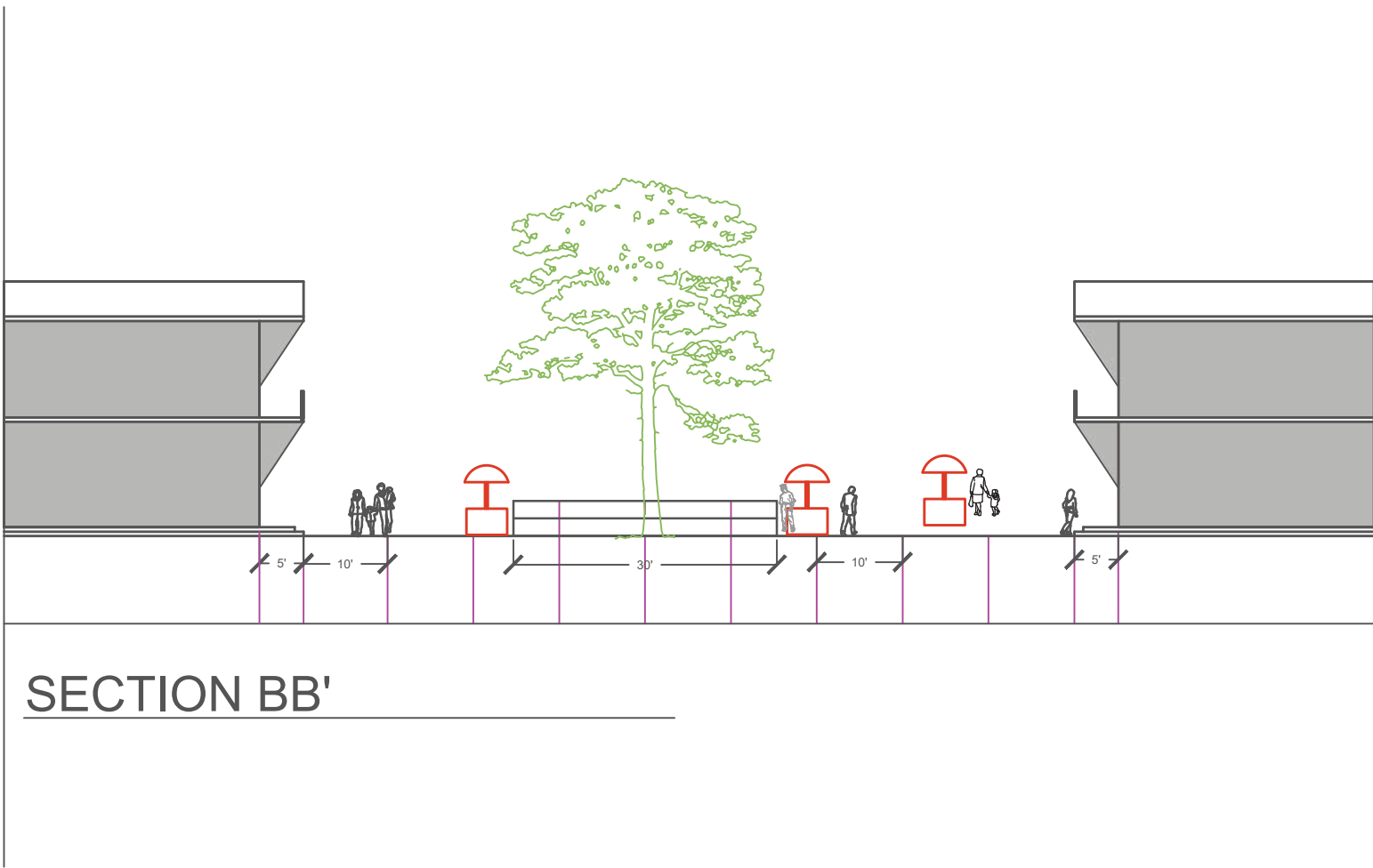
PLAN



SECTION AA'



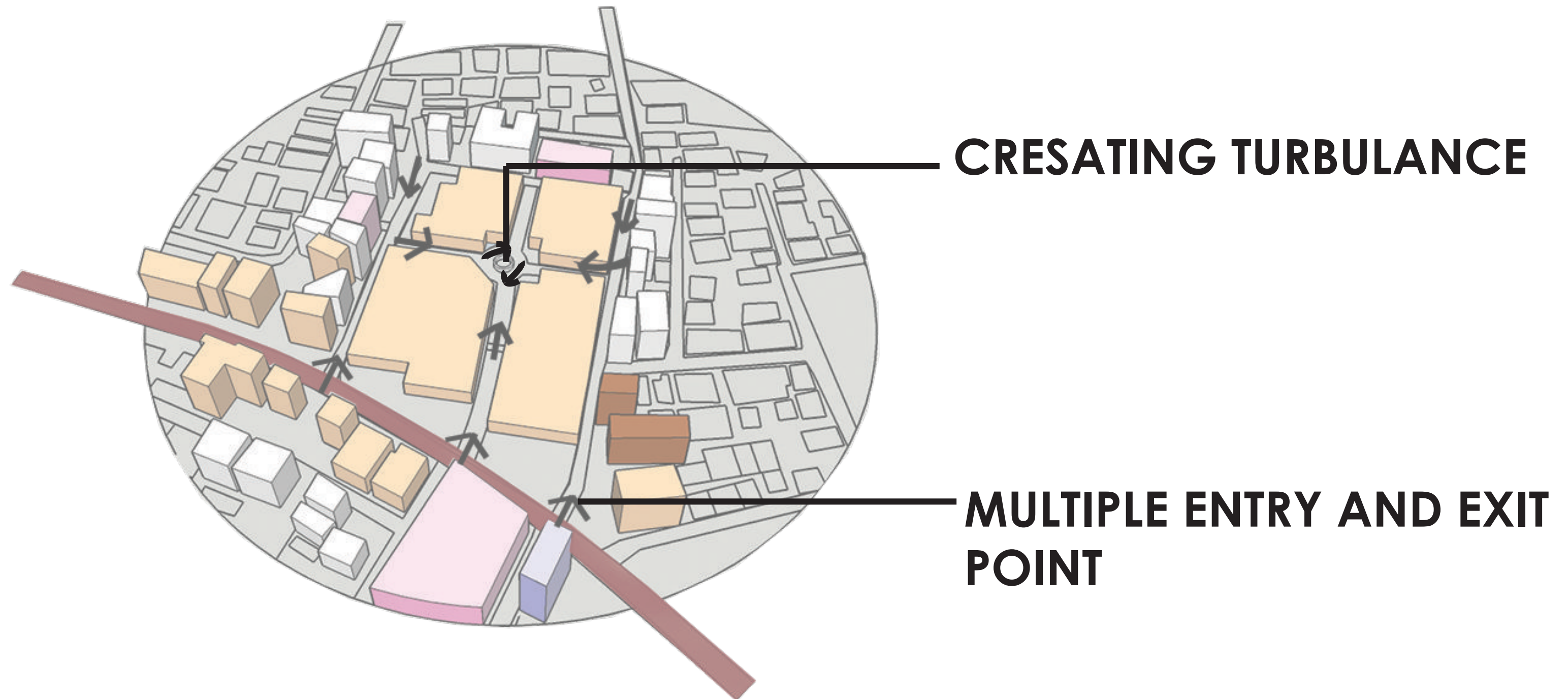
PLAN



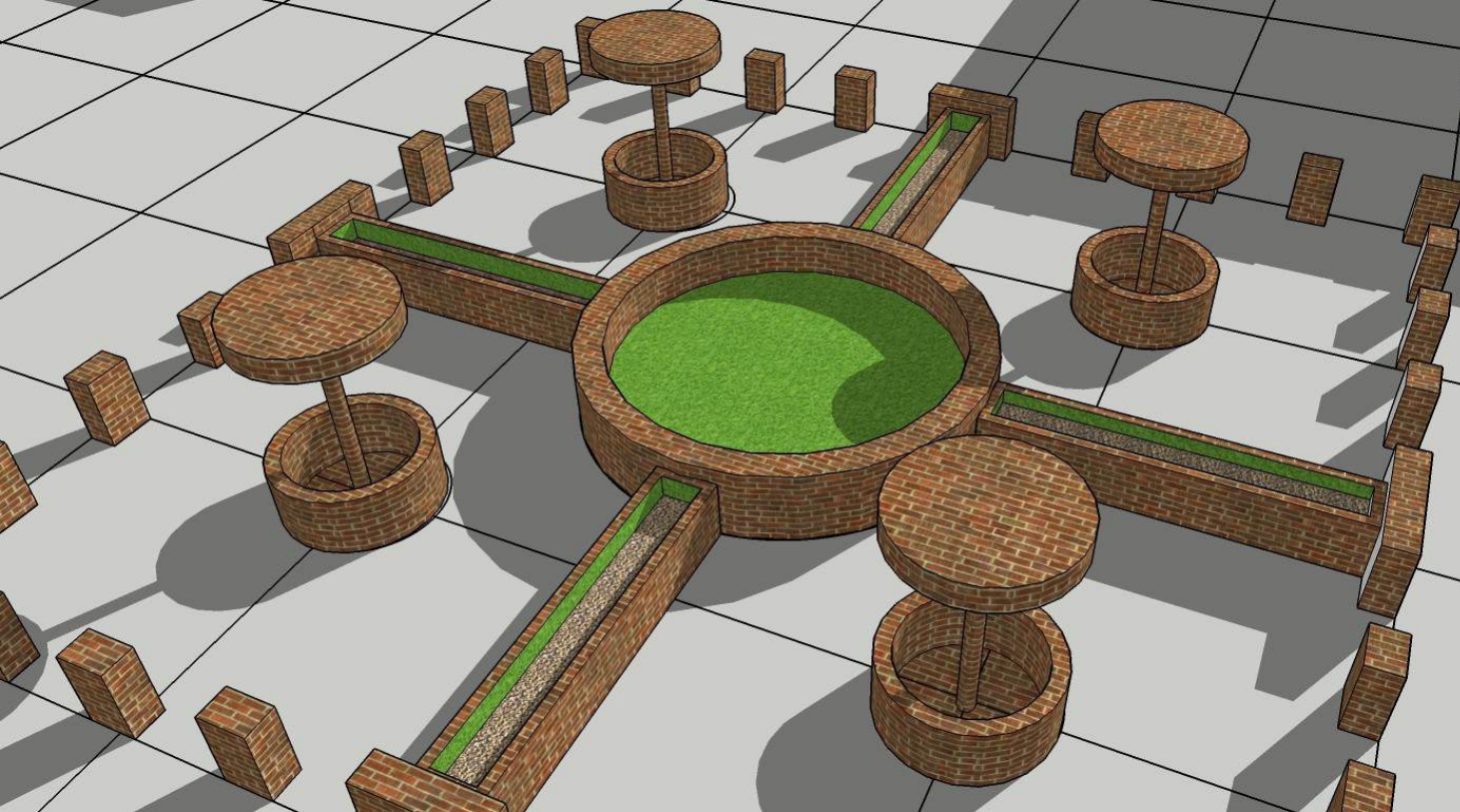
SECTION BB'

ISSUE THAT NEED TO BE ADDRESS

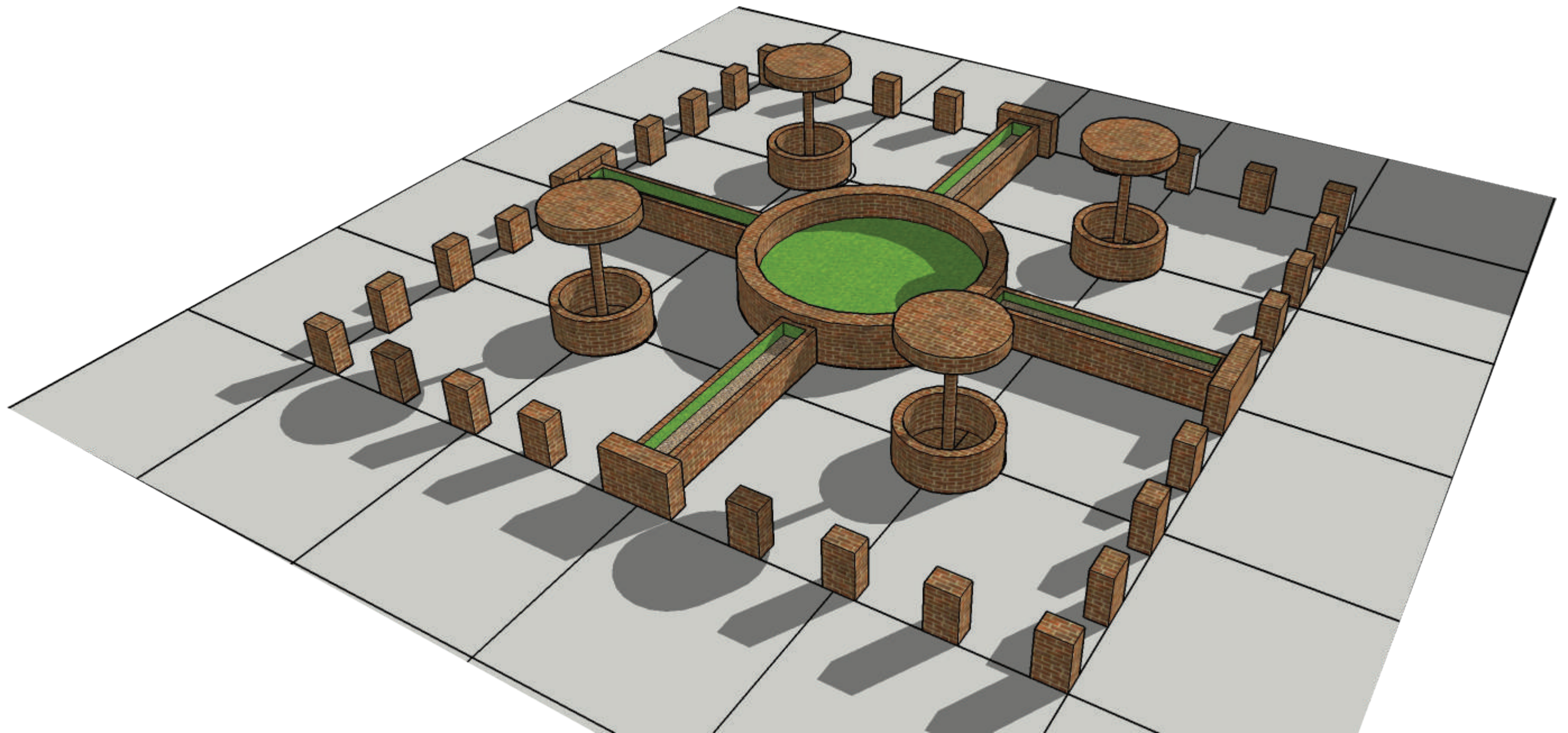
1. MULTIPLE ENTRY AND EXIT POINTS - ISSUE THAT INCREASE POPULATION DENSITY
2. POROUS SPACE







- USING PLANTER BOX TO CREATE A BARRIER
- A PEDESTRIAN DOMINATED SPACE
- 35 sqf WOULD BE TURNED INTO 100 sqf - a proper grid for maintaining distancing.

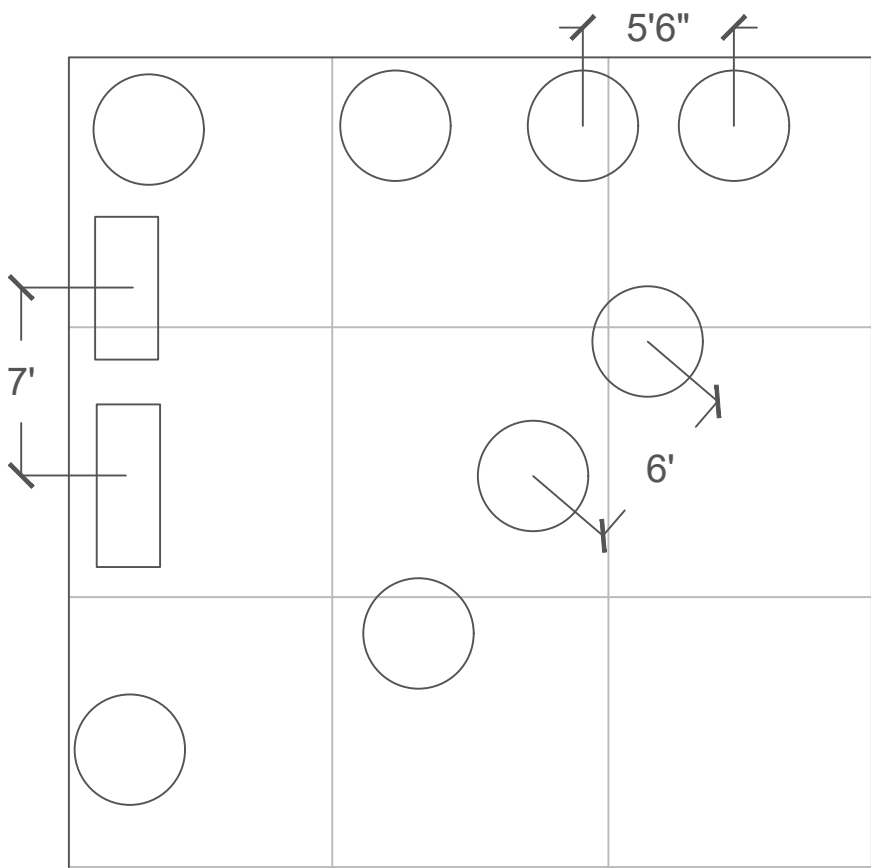
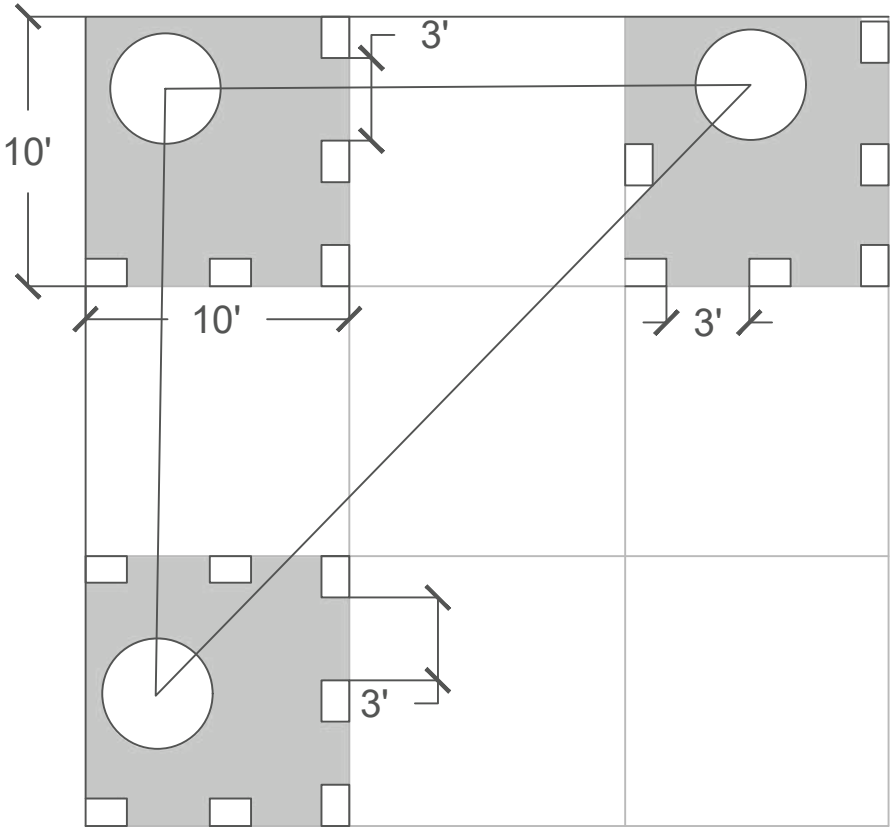
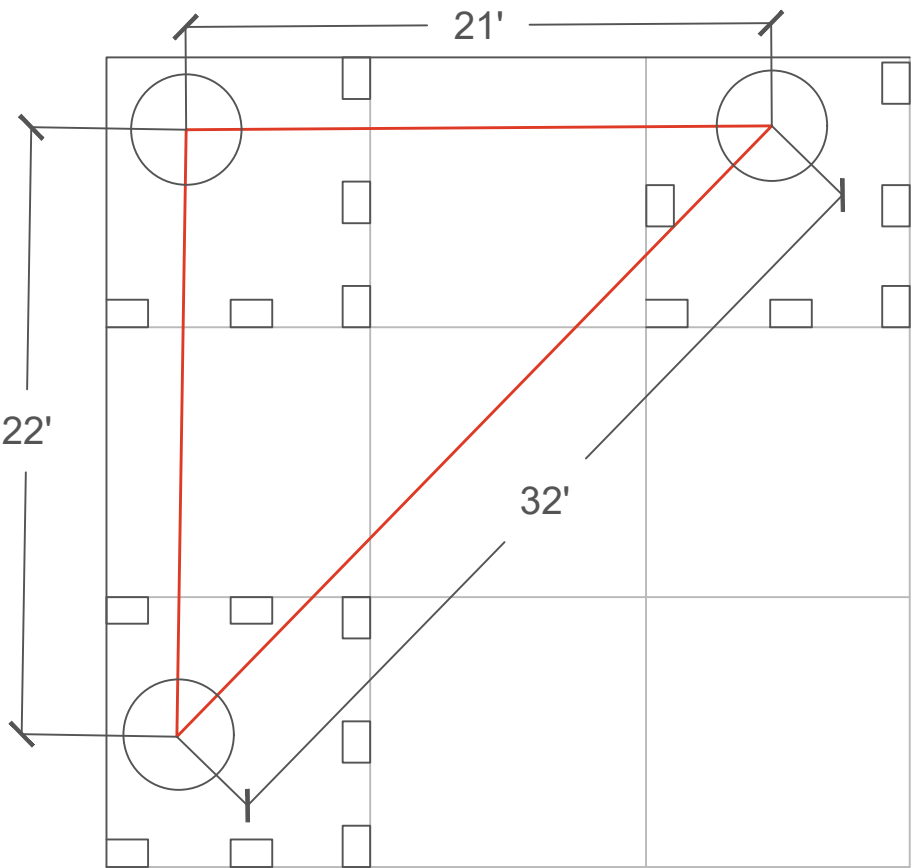
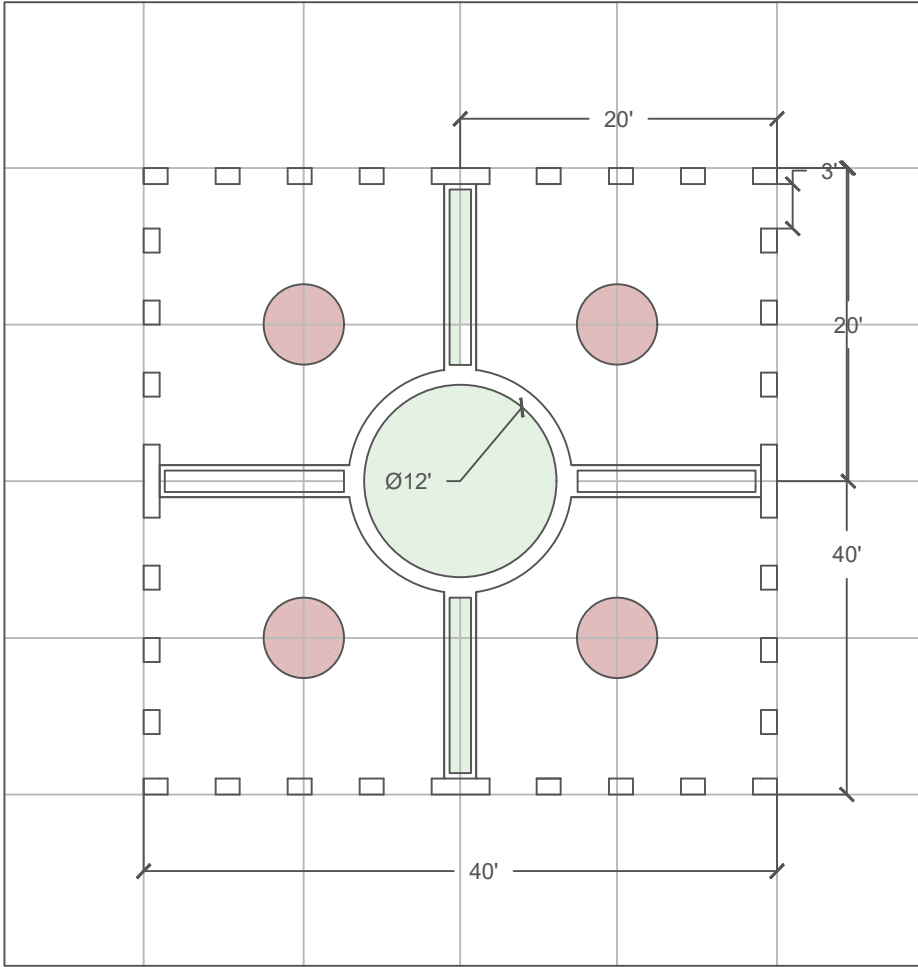
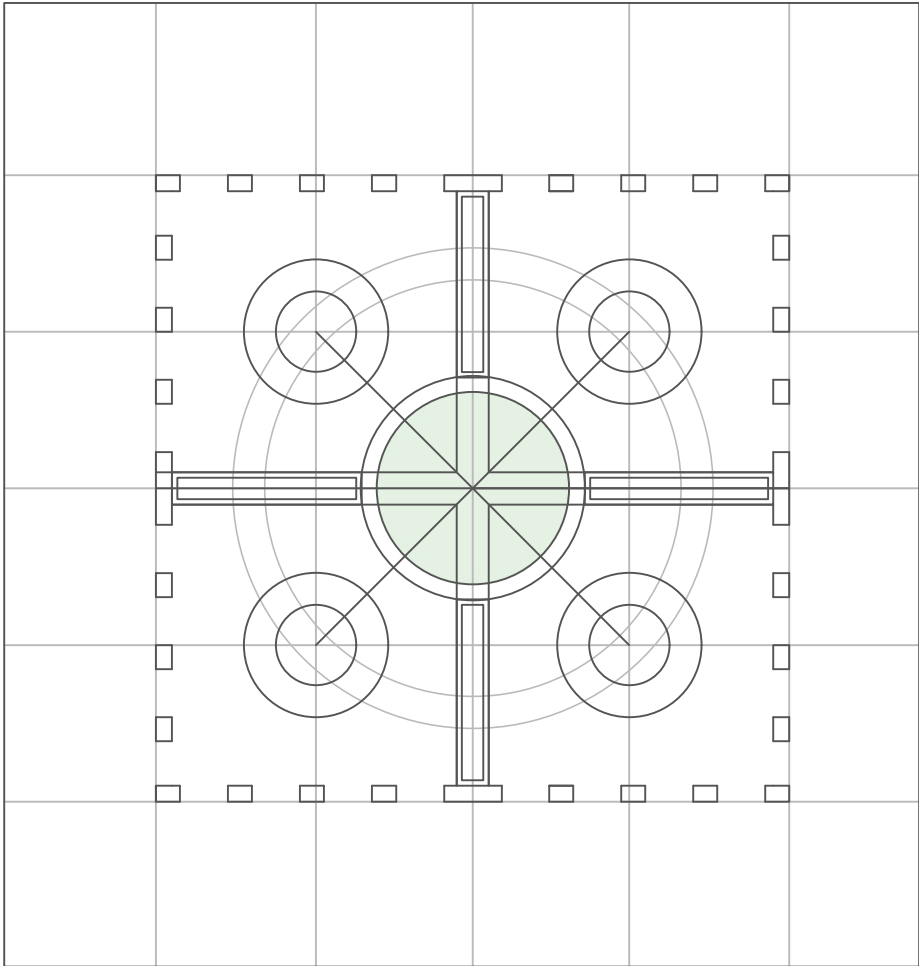
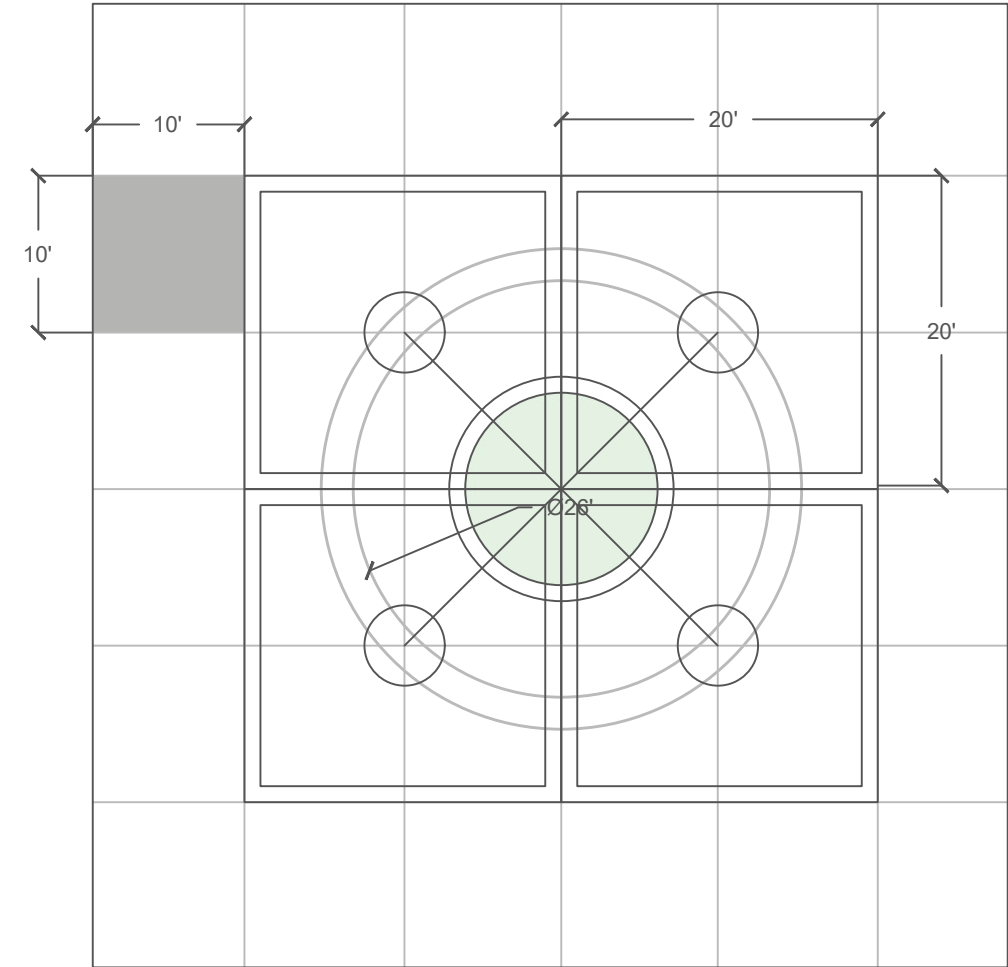


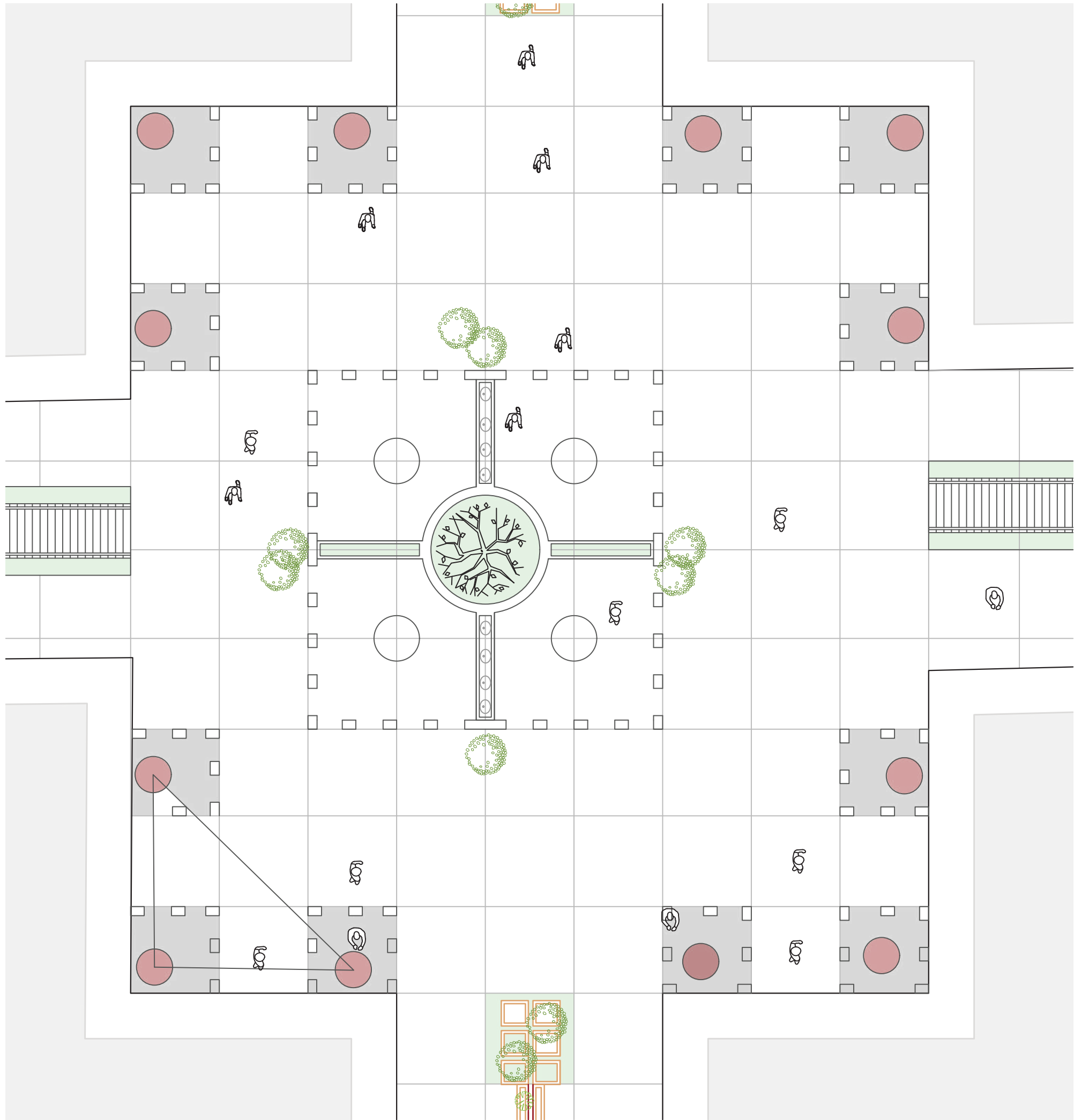
SOLUTIONS

1. RESTRICTED AND REGULATED ENTRY POINTS



DETAIL WORK





GROUP 13

NUZHAT SHAMA 17108042
ANANNA AHMED 17108019

REVIVING MOHAMMADPUR TOWNHALL MARKET

CONTENT

KEY FINDINGS FROM STUDY

HISTORY
SOLID AND VOID ANALYSIS
URBAN DESIGN STUDY

IDENTIFIED ISSUES

EDGE
SPATIAL QUALITY
ACTIVITIES

DESIGN STRATEGY

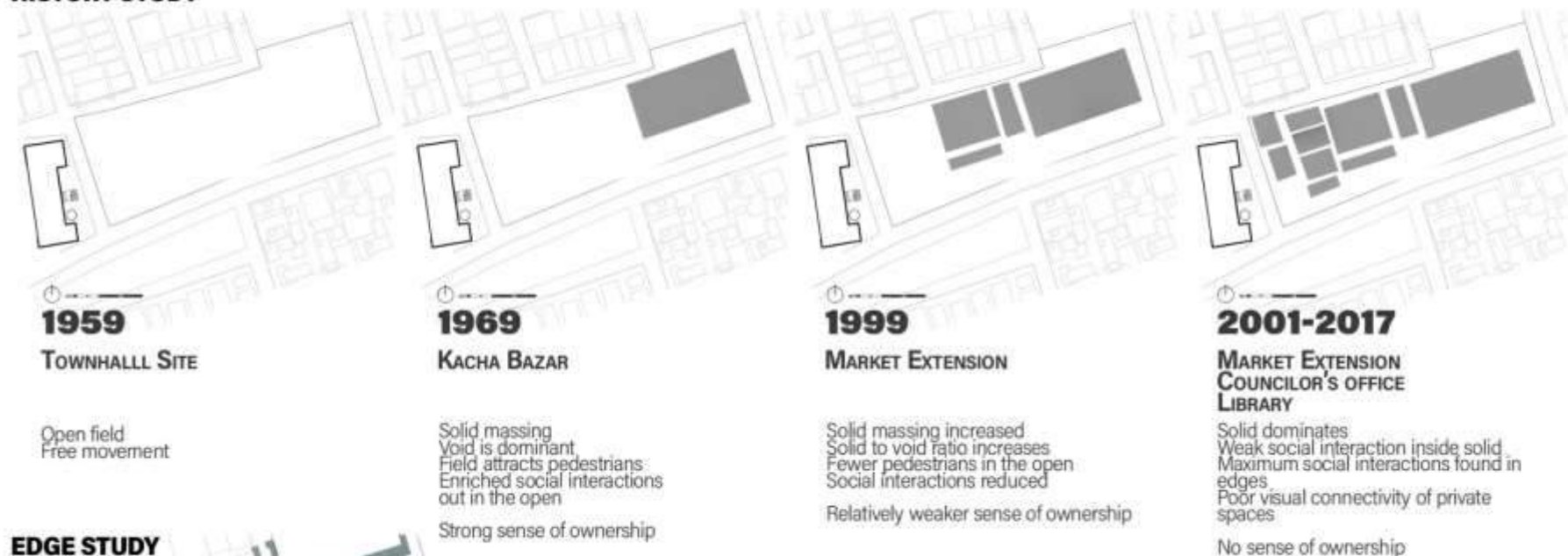
DISSOLVING EDGES OF SOLID AND OPEN
IMPROVING SPATIAL QUALITY
REGENERATION OF ACTIVITIES

DESIGN MANIFESTATION

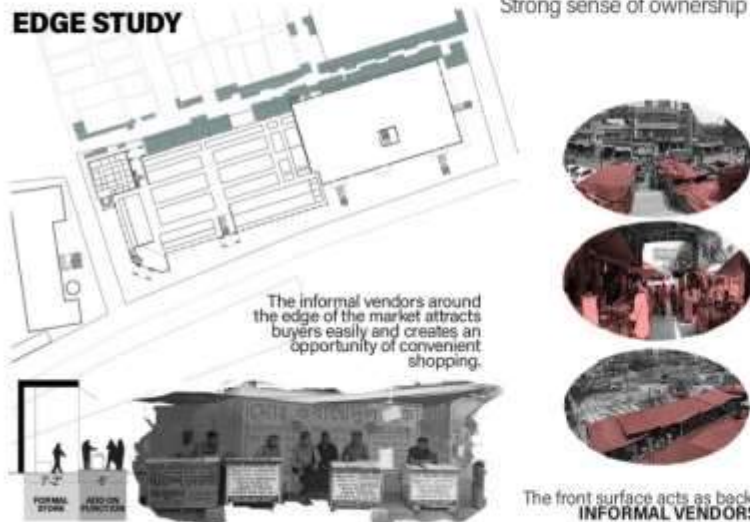
SKETCHES
SCHEMATIC
PLANS
SECTIONS
RENDER

KEY FINDINGS FROM STUDY

HISTORY STUDY



EDGE STUDY



The coexistence of the activities on **EDGE** creates a spill over effect on the open space which makes the functional relationship of the events between solids and open **BLURRED**

FUNCTIONS are not **LEGIBLE**

SOLID-VOID USAGE PATTERN

LEGEND



Townhall and surrounding areas are mainly **COMMERCIAL**. The economic pull towards the townhall market converted neighbouring homes into mixed use complexes (commercial and residential).

RESIDENTIAL houses are not available around the vicinity of the market. This does not occurs due to the tertiary road network and their more secluded nature.

We see high level activity patterns around the **EDGES** of the solids - around the townhall market, in front of the Masjid market, and around the field market. Edges attract the most social interactions.

The socio-economic progression of Mohammadpur Townhall throughout the pages of history

How the spatial changes of the structure affected ownership of the townhall in the neighbourhood

The most dynamic activities occur around in the transitional spaces from solids to open spaces

KEY FINDINGS FROM STUDY

SOLID-VOID RELATIONSHIP



ISSUES

(1) Lack of **CONNECTING VOID** in the main **TOWNHALL MARKET**.

- Reduced spatial quality
- Imbalanced distribution of solid-void
- Population distribution becomes less even
- Lack of quieter open-to-sky solid to void transitional spaces.



(2) **SOLID MASSING** design

- low surface area to volume ratio
- less area of solid edges connecting to void
- improper population distribution
- poor light distribution



SOLID
Population density and distribution are roughly directly proportional to floor



VOID
Void does not have any effect on population density and distribution



The increase in **FLOOR AREA** is proportional to **STACKING** of stories (**SOLIDS**). But this does not necessarily lead to increased population distribution.



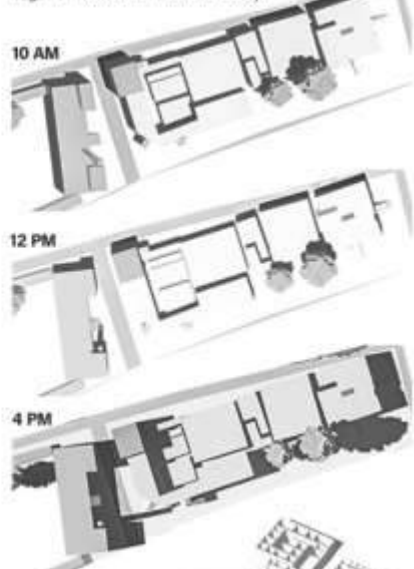
CREATING COMFORTABLE URBAN MICRO CLIMATE

HOW SHADOW PATTERNS AFFECT ACTIVITIES

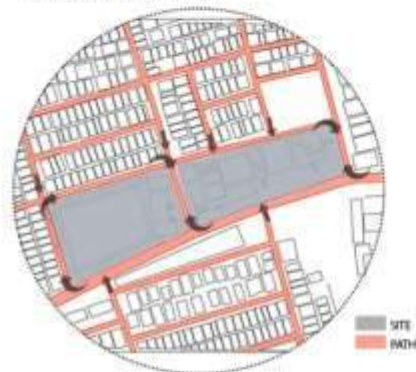
10 AM - Highest interactions observed in the north of Town - Hall Market and the Councilor's building

12 PM - Population under direct sunlight is generally few during noon. Highest activity patterns are recorded inside solids or under shading devices.

4 PM - Due to less harsher sunlight and post office hours, the ambience gradually turns more casual. The frequency of activities increase. The most dense activities are recorded in the south and west edges of Town Hall market and Masjid.



PERMEABILITY



- places that are accessible can offer people with **CHOICES**
- the quality is called **PERMEABILITY**
- the permeability of any system of public place depends on the **ALTERNATIVE ROUTES** it offers from one point to

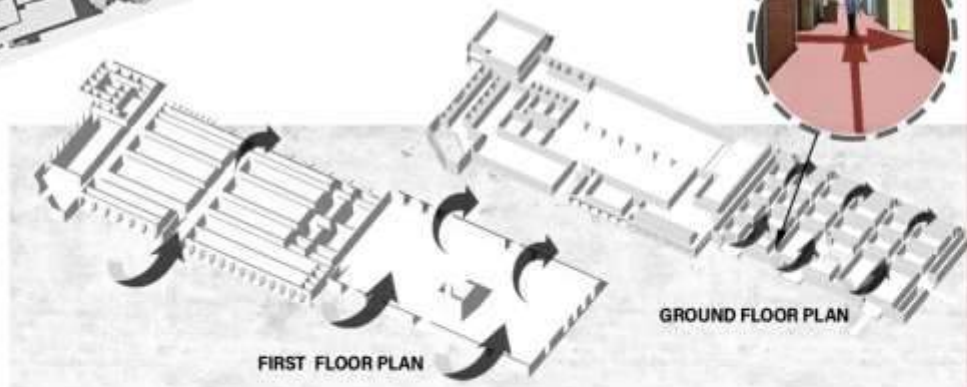
ANALYSIS

The place has multiple access points which provide people with choices. Therefore permeability is a strong spatial quality of this place.

Alleyways provide multiple access points

ISSUES

- (1) Multiple entry and exit points create **CONGESTION**
- (2) The **COUNCILOR OFFICE** is not legible enough
- (3) Pedestrian walkways converted into space for **INFORMAL VENDORS**



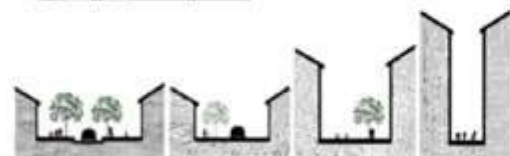
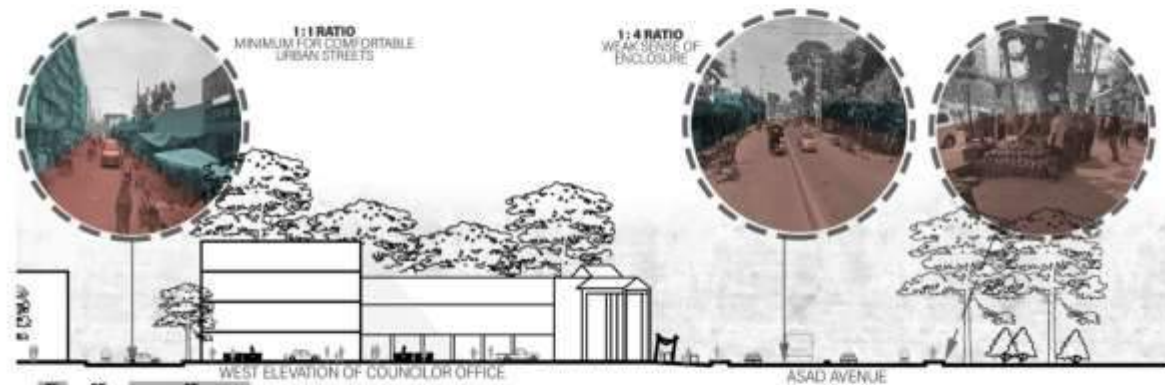
The relationship between solids and voids

Micro-climate and how it affects behavioral patterns of users

How to improve accessibility of the structure for users

KEY FINDINGS FROM STUDY

ENCLOSURE



1:4 RATIO
WEAK SENSE OF ENCLOSURE

1:2 AND 1:2.5 RATIO
GOOD SENSE OF ENCLOSURE IN A STREET

1:1 RATIO
MINIMUM FOR COMFORTABLE URBAN STREETS

BUILDING HEIGHT > SPACE WIDTH
MAY LEAD TO FEELINGS OF CLAUSTROPHOBIA



THE STREET

"Unlike a square, a street has only two walls to define a space"

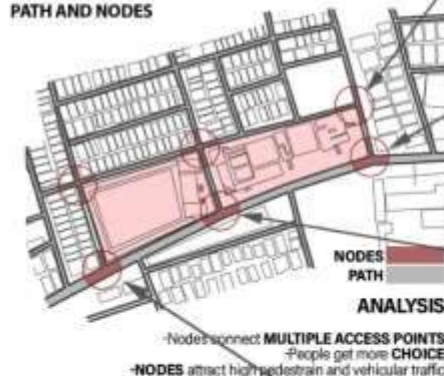
LEGIBILITY

- (1) The quality which makes a place GRASP-ABLE
- (2) Place of public relevance could be easily IDENTIFIED
- (3) The building which stood out from the rest has the greatest public RELEVANCE

PHYSICAL ELEMENTS THAT ENHANCE LEGIBILITY

1. NODES
2. EDGES
3. PATHS
4. DISTRICTS
5. LANDMARK

PATH AND NODES



LANDMARK

NOT LEGIBLE
We could not understand whether it is a councillor office or not



LEGIBLE
People can easily understand the space and its related function
Shahid Park Masjid and the Masjid Market is



PARKING POP-UP URBANISM



PARKING GARBAGE DISPOSAL



PEDESTRIAN MOBILE VENDORS



PEDESTRIAN FURNITURE STORE



LANDMARKS



How scale of enclosures in a public space can affect psychological and behavioral patterns of users

How to improve the comprehension of a public space for users

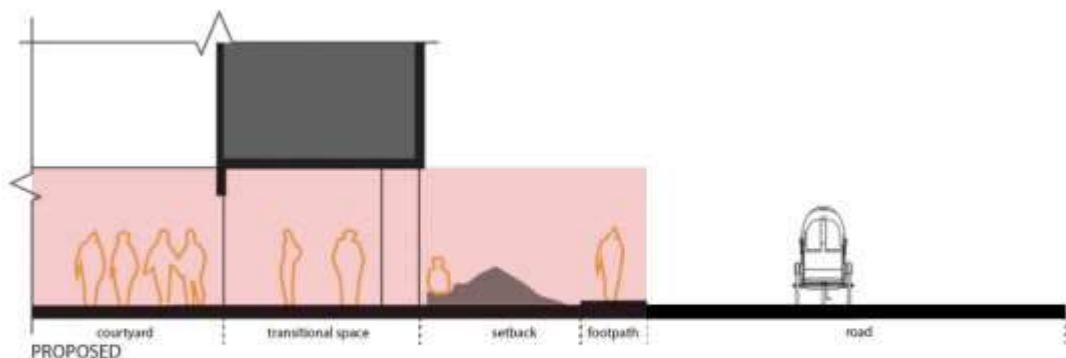
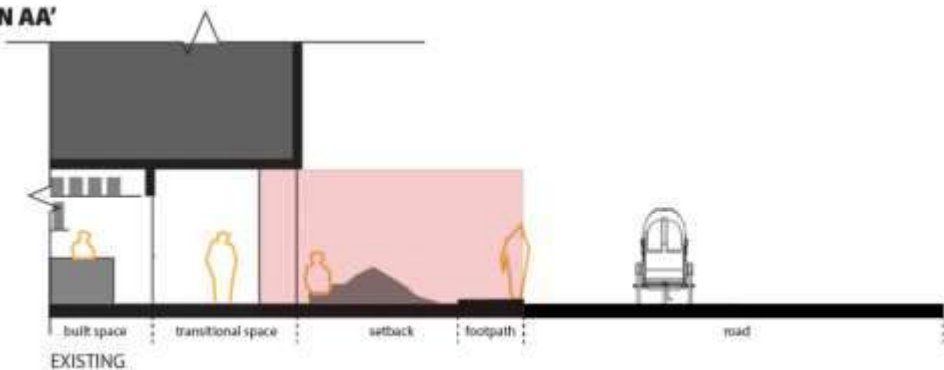
ISSUES

EDGES

They have a strong character in the townhall market. It attracts the highest amount of foot traffic

This is not utilised to its full potential

SECTION AA'



STRATEGIES

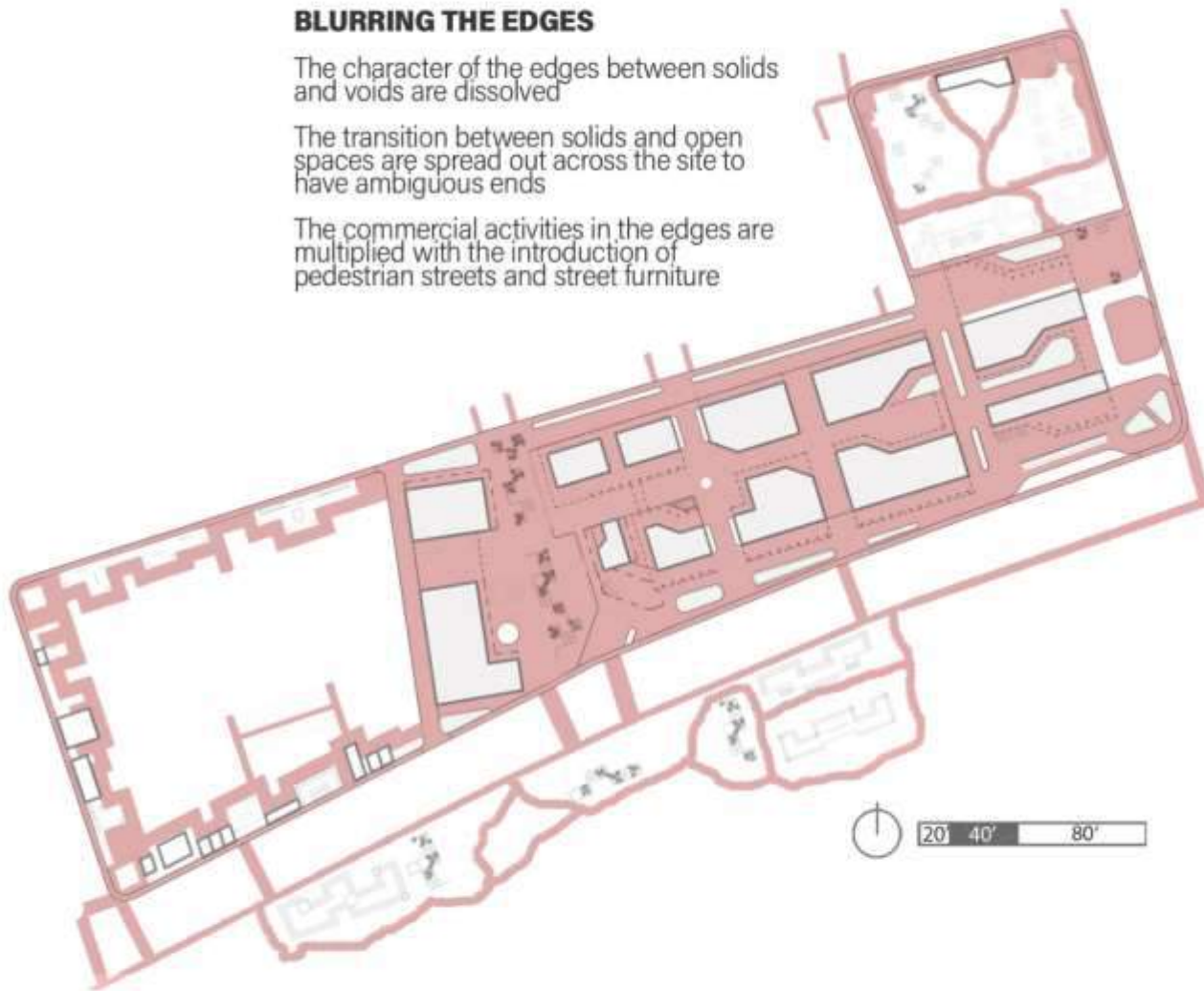
(1)

BLURRING THE EDGES

The character of the edges between solids and voids are dissolved

The transition between solids and open spaces are spread out across the site to have ambiguous ends

The commercial activities in the edges are multiplied with the introduction of pedestrian streets and street furniture



ISSUES

NO SENSE OF OWNERSHIP

They lack a **PSYCHOLOGICAL CONNECTION** with the spaces in the area

USERS in surrounding areas do not have any sense of ownership to the townhall market:

HISTORICAL ESSENCE is lost in the existing structure

Lack of pedestrian spaces and existing pedestrian spaces are focused around edges with **UNCOMFORTABLE MICROCLIMATES**

Poor **SPATIAL QUALITY**



STRATEGIES

(2)

REVIVING EXISTING STRUCTURES TO INSPIRE OWNERSHIP OF TOWNHALL IN THE NEIGHBOURHOOD

POOR SPATIAL QUALITY

Lack of proper ventilation
Lack of proper lighting conditions
Lack of proper hygiene practice
Claustrophobic
Dark
Uninviting
Decreases legibility and circulation

NO VISUAL CONNECTIVITY

Lack of connecting void in the main town hall market
Reduced spatial quality

PRESERVATION THROUGH INTEGRATION

PEDESTRIAN PATHWAYS AND PLAZAS

IMPROVING SPATIAL QUALITY AND **MICROCLIMATE**

EMBRACE THE **ESSENCE** OF TOWNHALL

TO INSPIRE A **PSYCHOLOGICAL CONNECTION** USERS HAVE TO ATTAIN **MEMORY OF A PLACE**

THIS CAN BE ACHIEVED THROUGH

REGULAR **USAGE** OF THE SPACE

PROPER **SPATIAL UNDERSTANDING** OF THE PLACE

DIRECT SOCIAL **ACTIVITIES** IN THE SPACE

A **STORY** ASSOCIATED WITH THE PLACE SPACE

IMPROVING COMFORT OF MICROCLIMATE
INSIDE SOLID TO ATTAIN SUSTAINABILITY
AND INCLUSIVITY

VENTILATION INCREASED

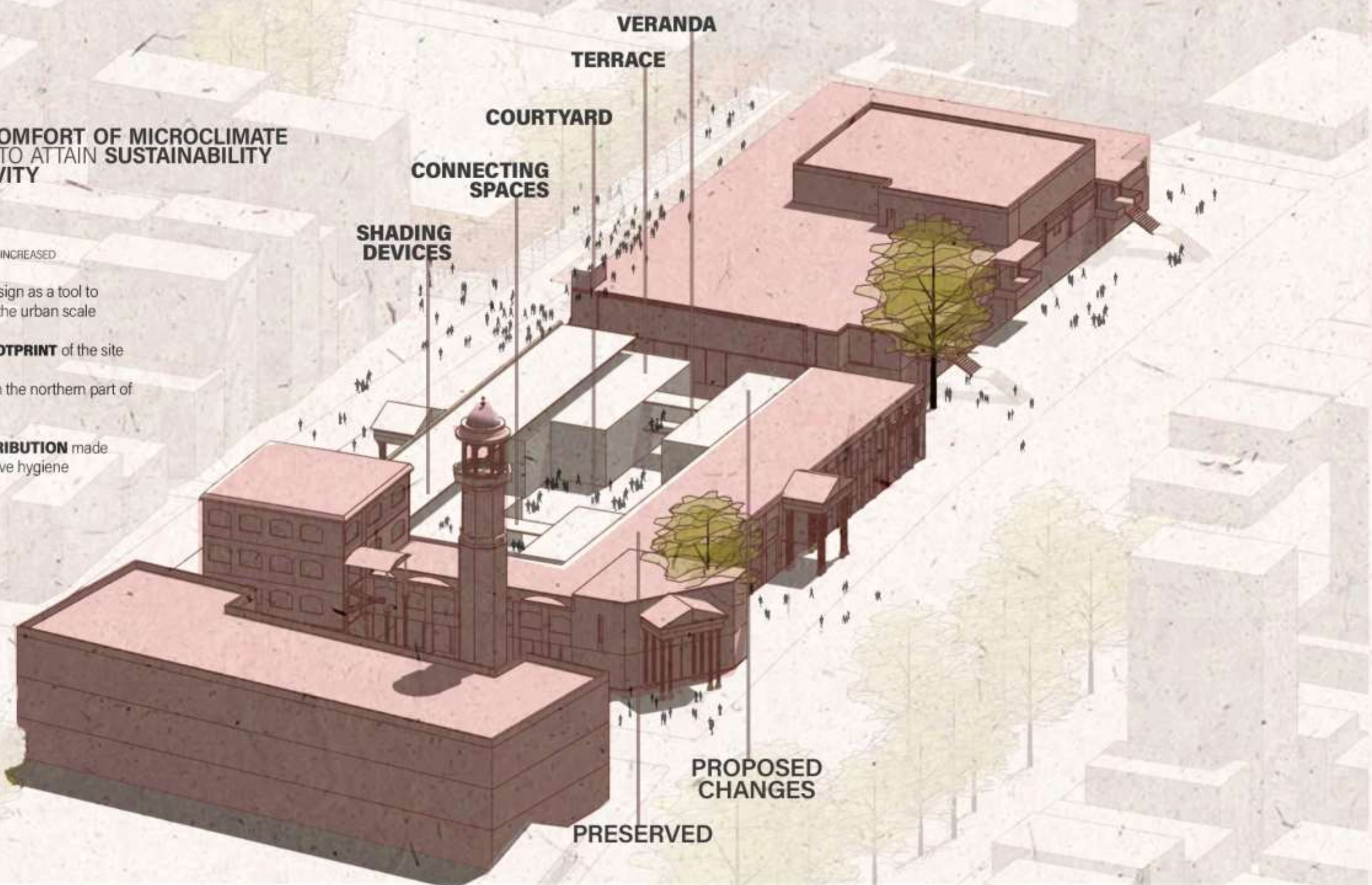
INDOOR INDIRECT LIGHTING INCREASED

Using architectural design as a tool to
create **COMFORT** in the urban scale

Reduce **CARBON FOOTPRINT** of the site

Enlarge **OPENINGS** in the northern part of
the town hall

FUNCTIONAL DISTRIBUTION made
accordingly - To improve hygiene

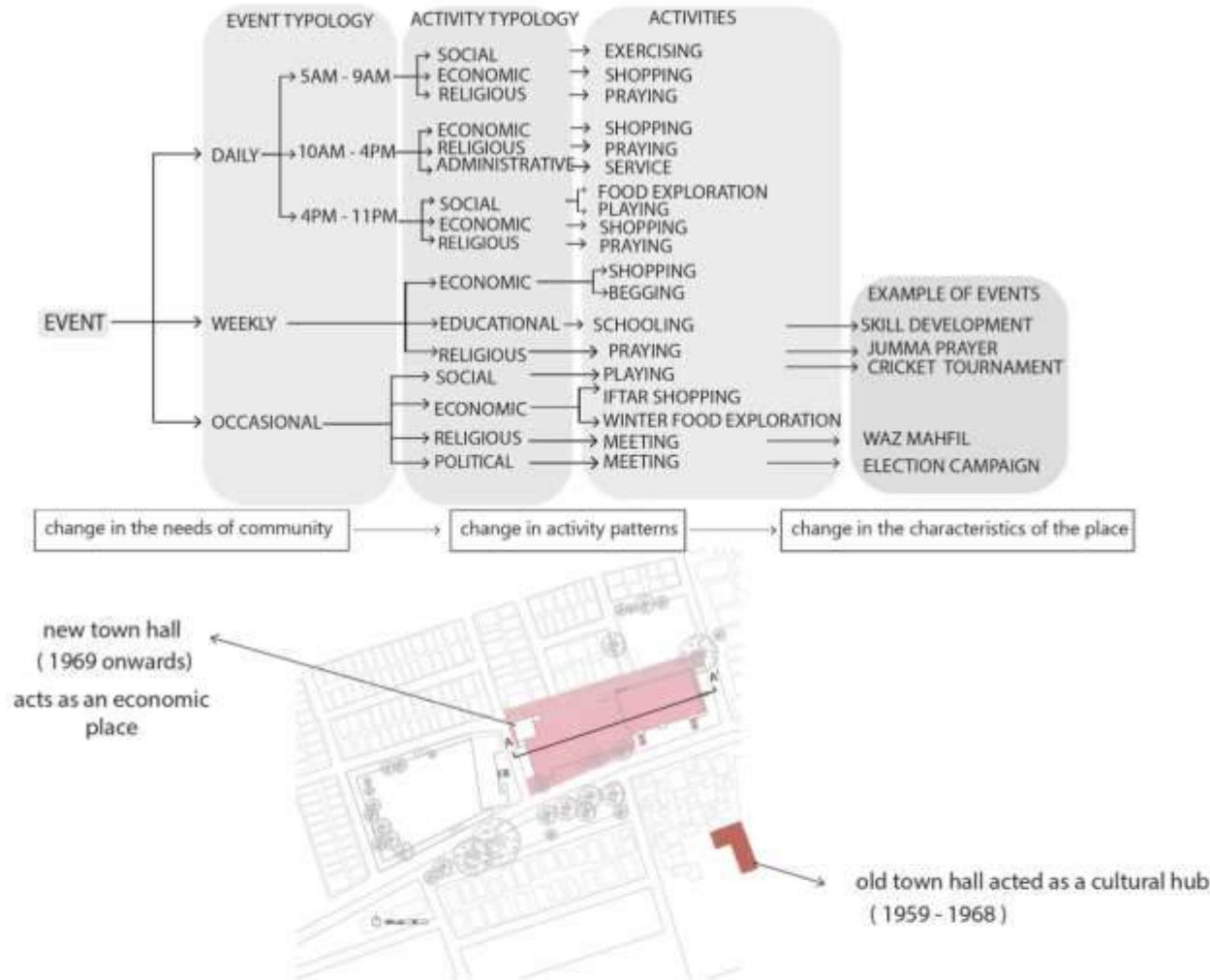


PRESERVED

PROPOSED
CHANGES

ISSUES

THE ACTIVITY PATTERNS EVOLVED OVER TIME AS THE NEEDS OF THE COMMUNITY SHIFTED AND A **CULTURAL SPACE** EMBRACED THE FEATURES OF AN **ECONOMIC SPACE**



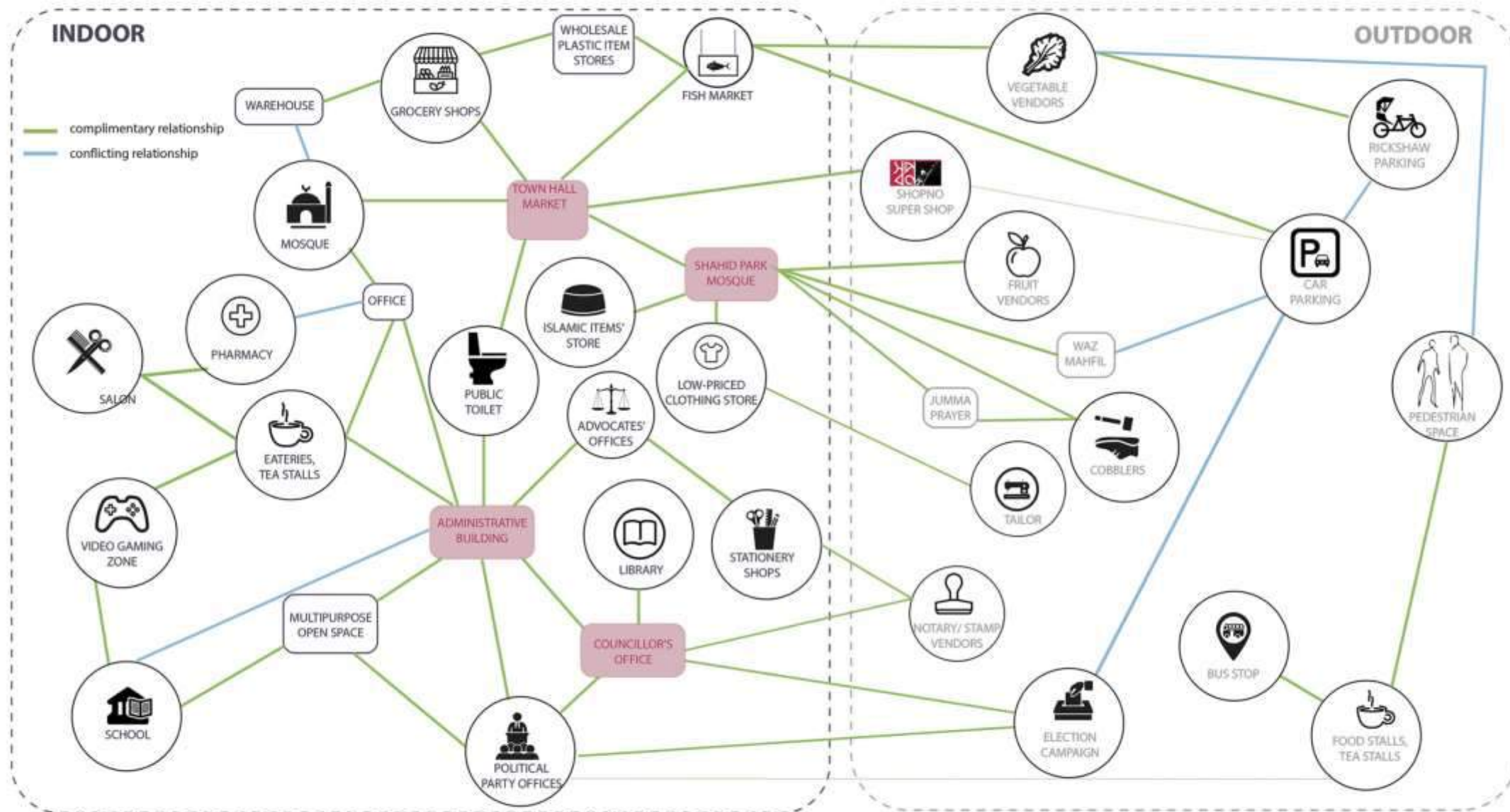
STRATEGIES

(3)

IDENTIFYING **ASPIRATIONS OF THE NEIGHBORHOOD** CONTRIBUTE TO ENHANCE THE SYMBIOTIC RELATIONSHIP BETWEEN DIFFERENT FORMS OF ACTIVITIES



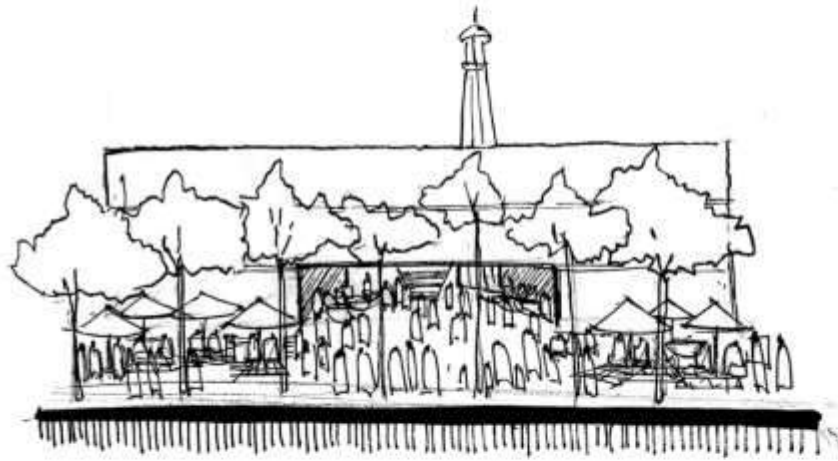
ACTORS' INTERDEPENDENCY MAP



"OWNERSHIP OF TOWNHALL"

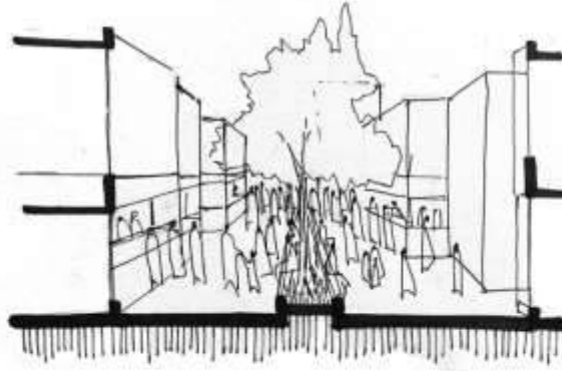
(1)

DISSOLVING EDGES OF
SOLIDS AND OPEN



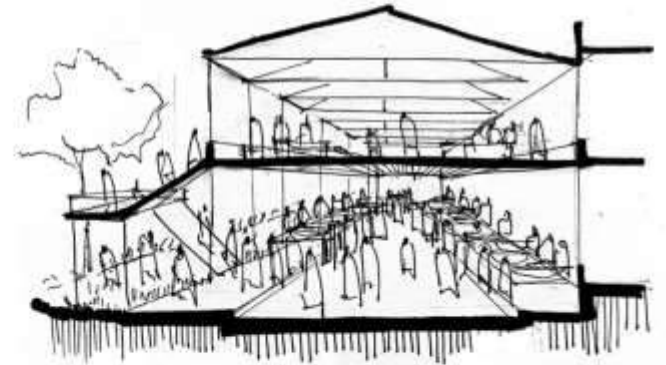
(2)

IMPROVING SPATIAL
QUALITY OF EXISTING SPACES



(3)

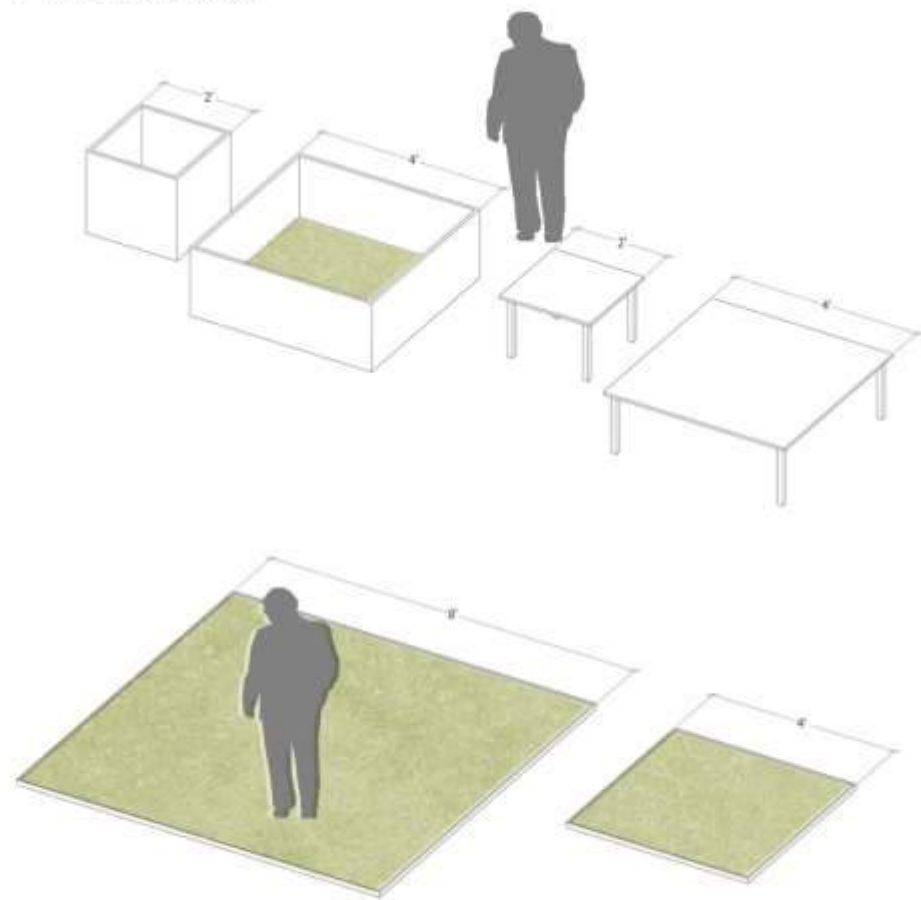
ACTIVITIES
REGENERATION



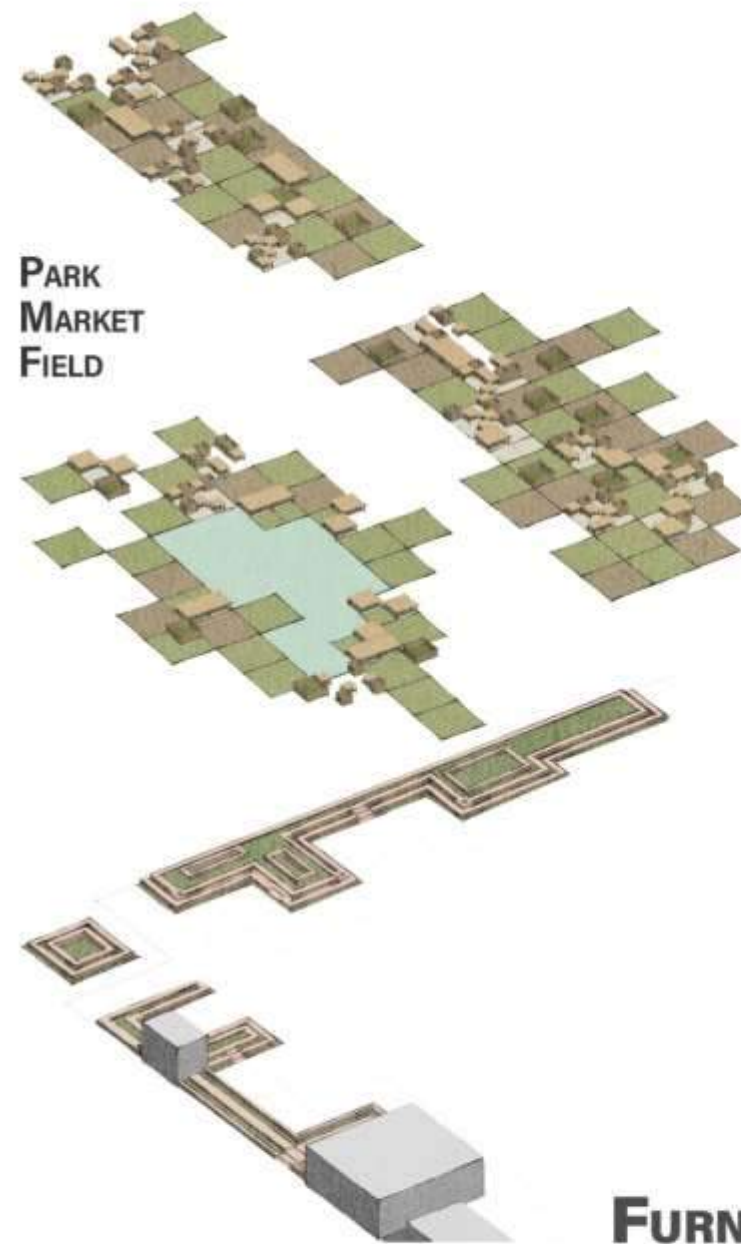


- A KITCHEN MARKET
- B MIXED COMMERCIAL MARKET
- C MOSQUE
- D MULTIPURPOSE HALL & RESTAURANT
- E CULTURAL SCHOOL
- F DAY CARE CENTER

BENCH
GREEN PATCHES
SOIL
PLANTER BOXES



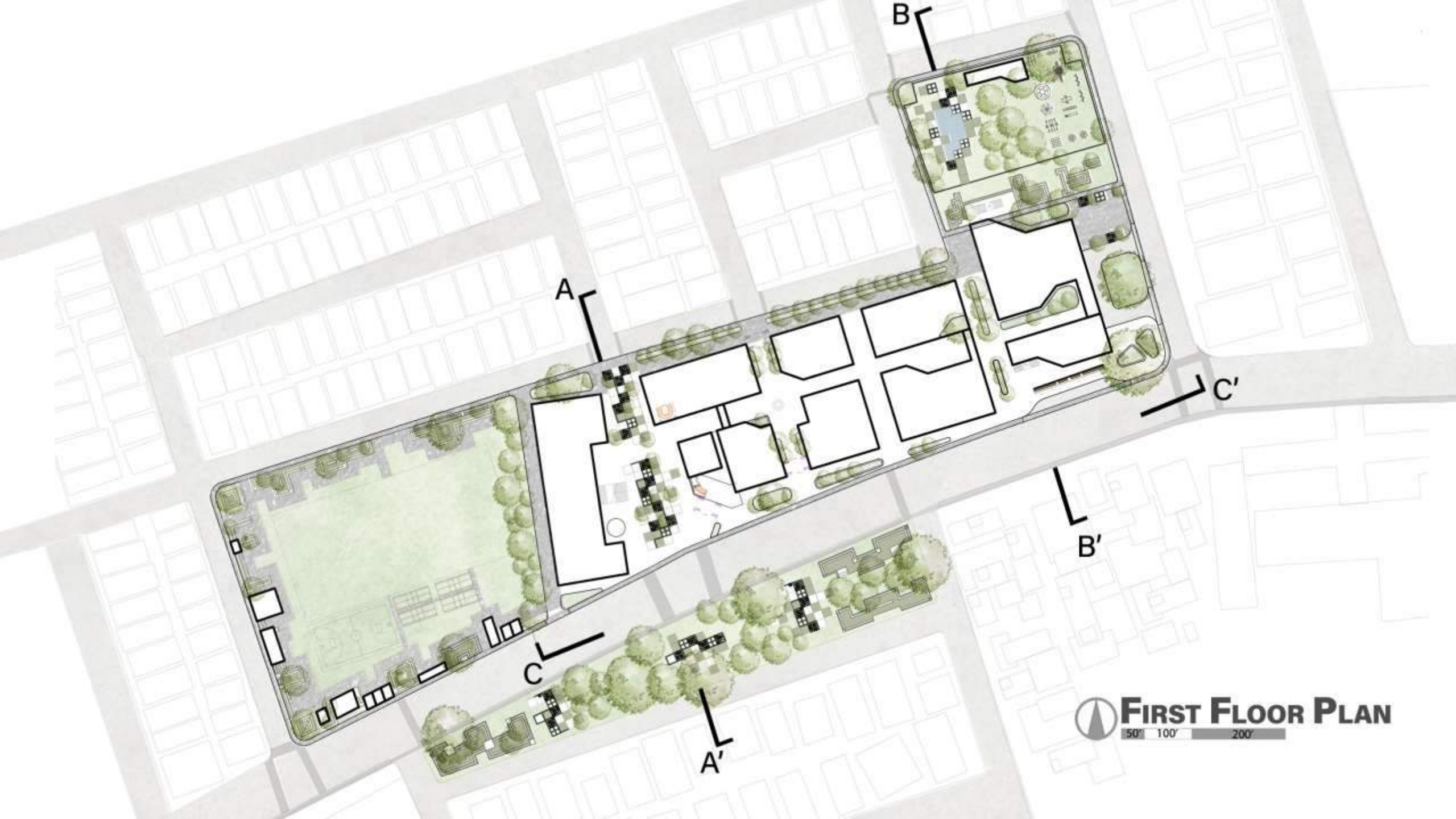
PARK
MARKET
FIELD



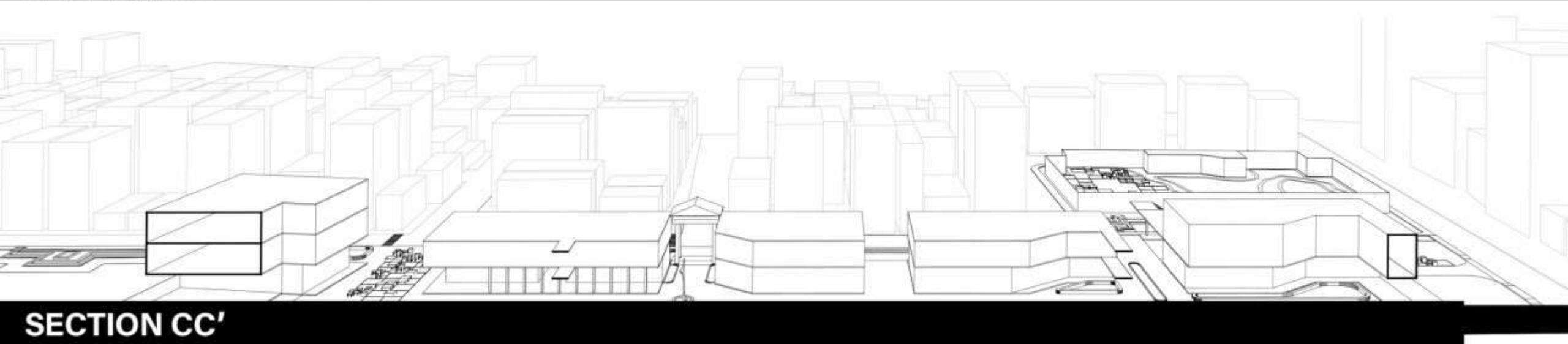
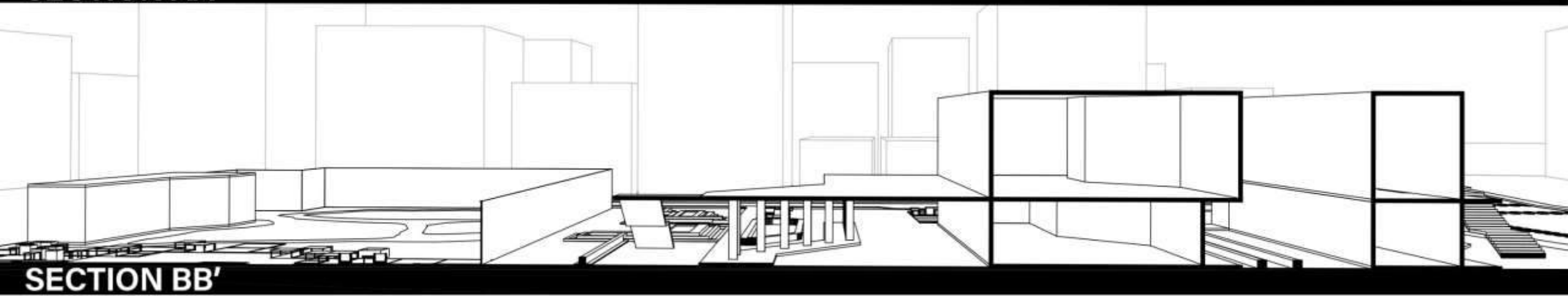
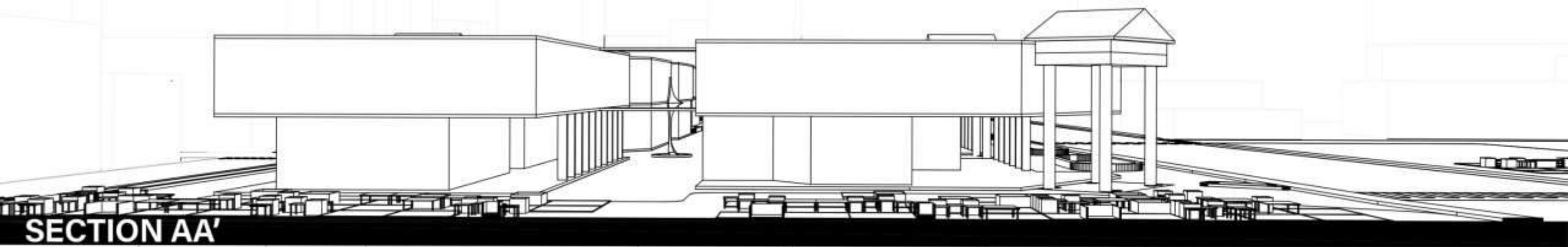
FURNITURE



 **GROUND FLOOR PLAN**
50' 100' 200'



 **FIRST FLOOR PLAN**
50' 100' 200'



BEFORE



AFTER





























A blurred black and white photograph of a park path. The path is in the foreground, leading towards a background of dense trees and foliage. The image is out of focus, creating a bokeh effect with light and dark patches. The text "THANK YOU" is centered in the middle of the image.

THANK YOU

ACKNOWLEDGEMENT

FACILITATORS

A.K.M SIRAJUDDIN
IMON CHOWDHOOREE
TASFIN AZIZ