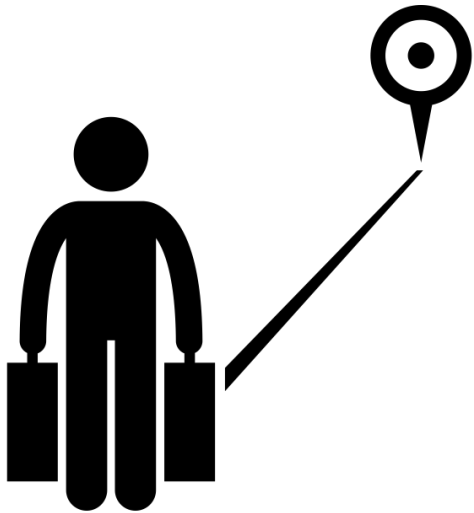


| People, Patterns and the Practice |

Implementing rural-urban living patterns and
development processes towards an incremental collective
housing system

Hatice Yilmaz
Global Housing Studio 2020-2021
Graduation Project

INTRODUCTION MOVIE



Urban Development Processes
Migration as consequence of
urbanisation



Urban Development Processes
Migration as consequence of
urbanisation



Ruralising the urban



Urban Development Processes
Migration as consequence of
urbanisation



Ruralising the urban



Patterns of rural and urban
inhabitation and everyday life
through different scales



Urban Development Processes
Migration as consequence of
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Ruralising the urban



Patterns of rural and urban
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through different scales



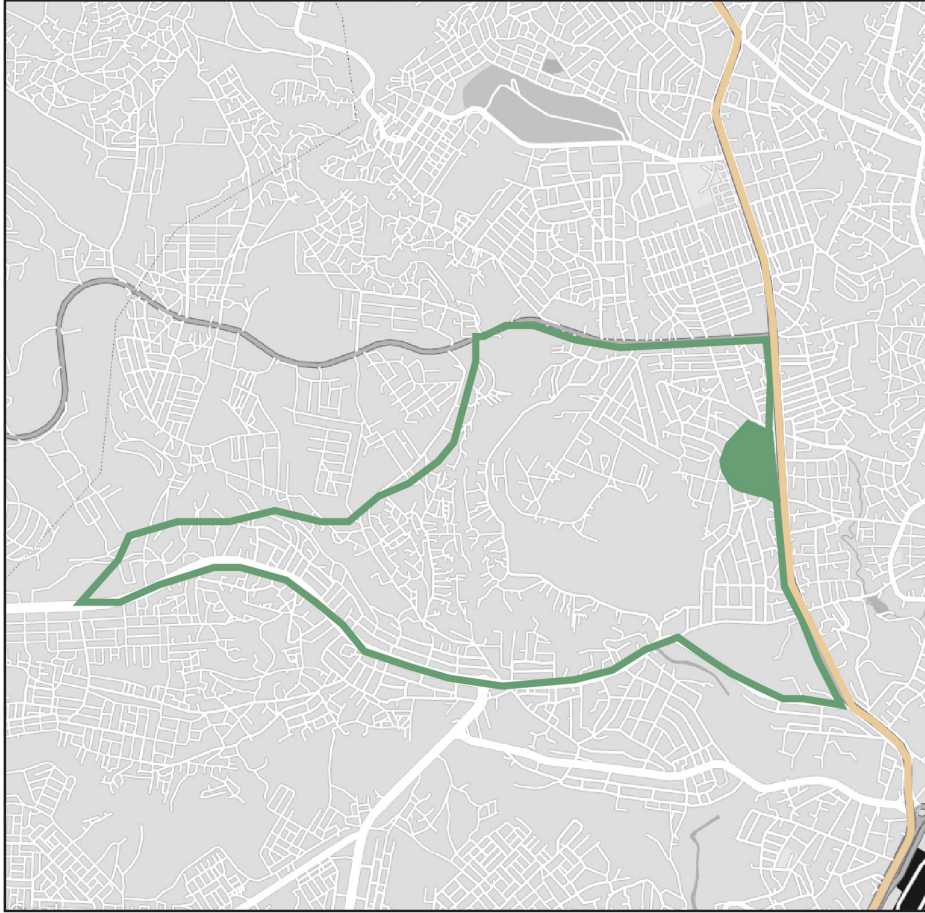
Implementing incremental
housing strategy -
Self-built homes



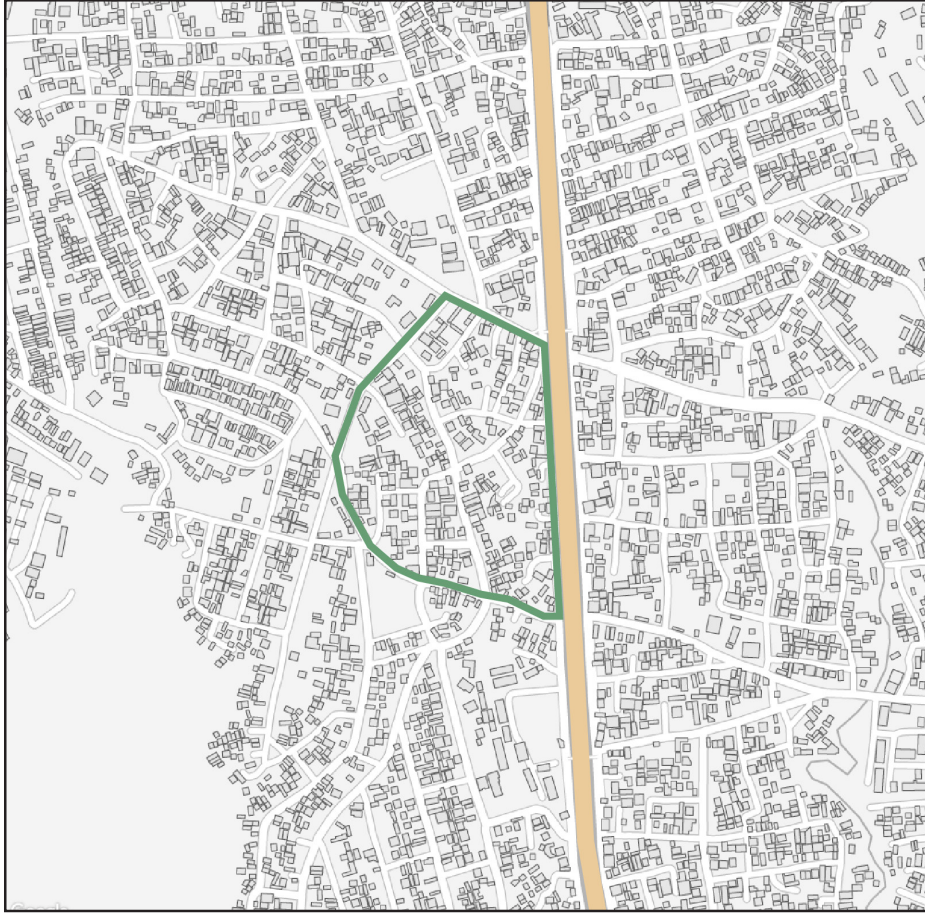
Western edge of Addis Ababa



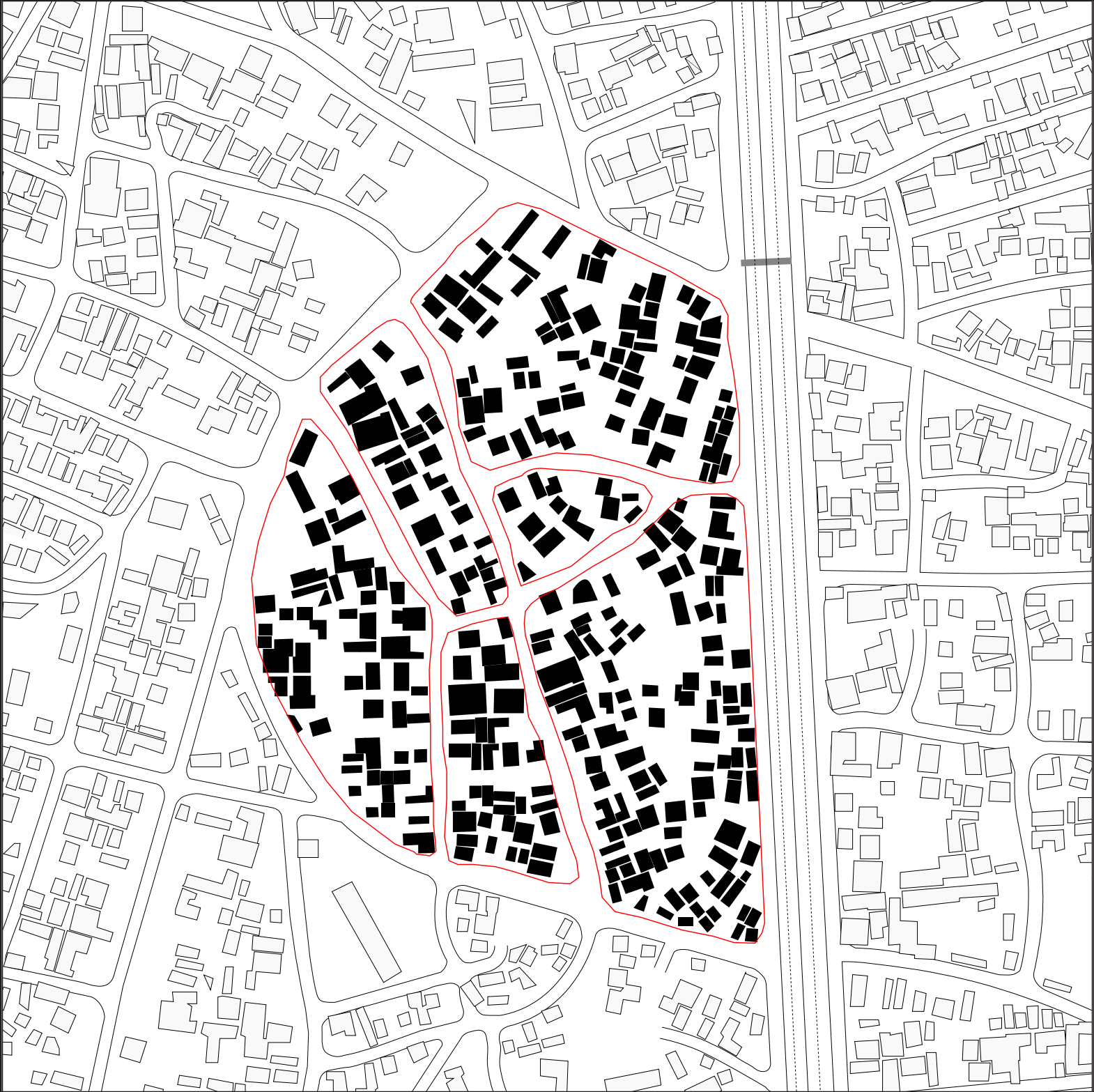
Semi-peripheral



Current site



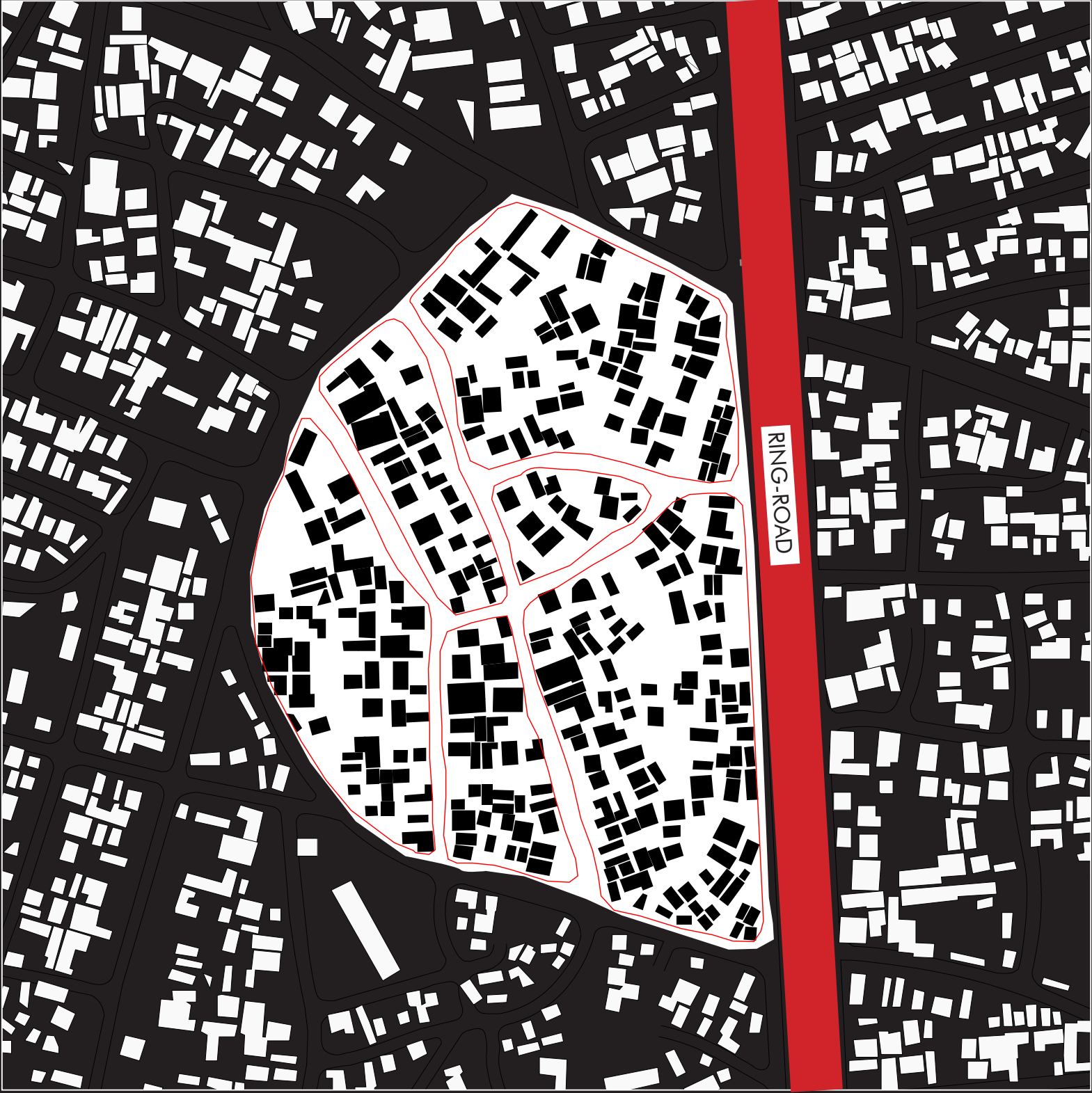
BUILT MASS - currently



THEORETIC FRAMEWORK







BUILT MASS - currently

THEORETIC FRAMEWORK



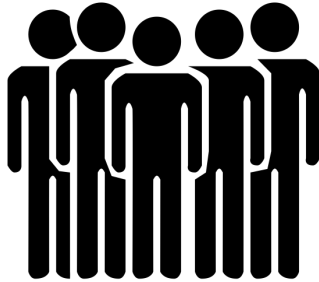
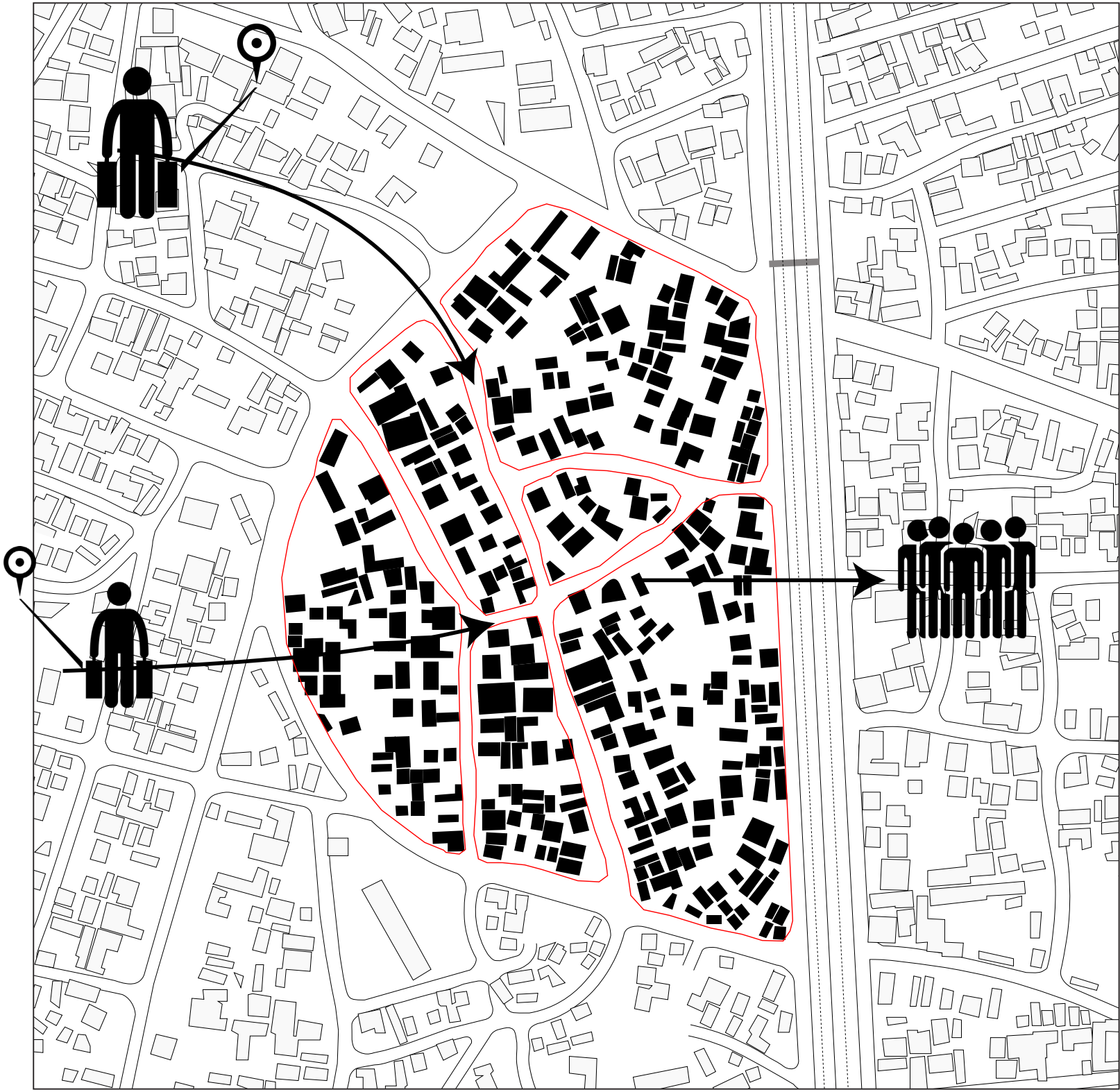
Lack of services



Ring-Road



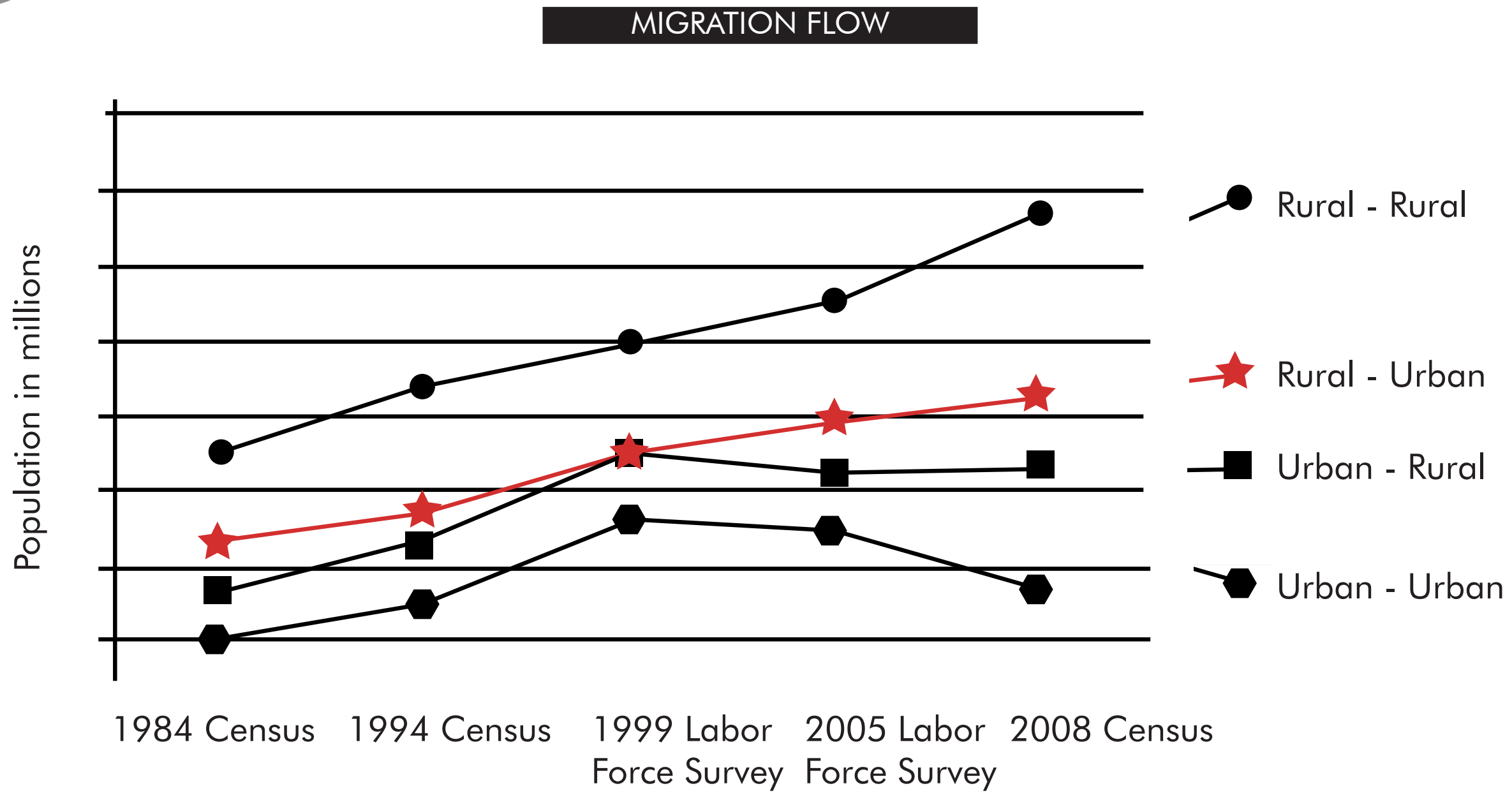
Rural-to-urban migration



<14 years

2007-2013 one-third of the households in the village experienced rural-urban migration; and 21% have at least one youth migrant

THEORETIC FRAMEWORK





Tenure insecurity
Women are living with an extended family Men mainly with other friends or even some on the street

Poor Unaffordable Housing conditions
Rural: Own house or living for free
Urban: Rent expences

THEORETIC FRAMEWORK



| CHALLENGES - dwellers |



No or less social contact -
family or community bands
which means no network to
rely on



Inability to access
government services and
support



Work place insecurity
and harassment
Males: Construction or
Transportation Jobs
Women: Domestic Jobs



Unfamiliar with the urban
habits
Harder to integrate in the
urban city



| CHALLENGES - dwellers |



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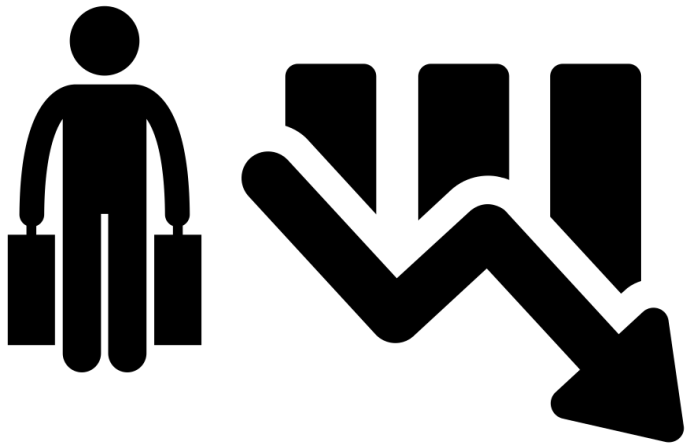
Inability to access
government services and
support



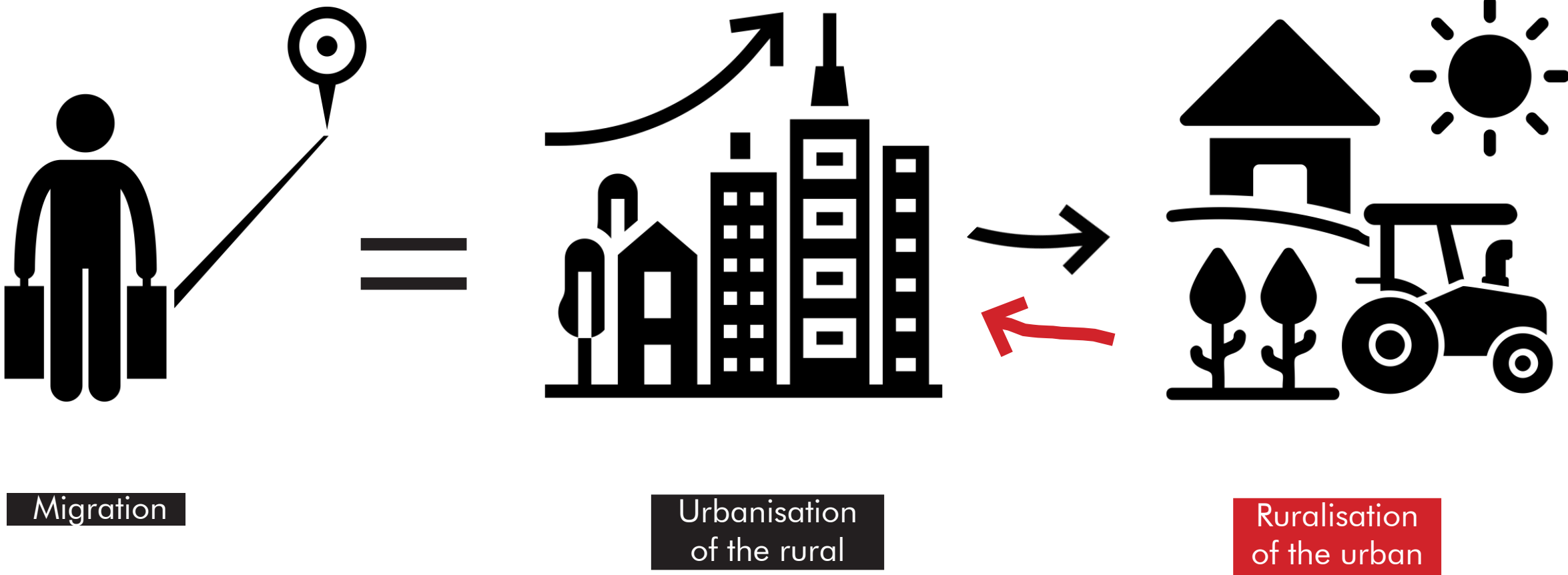
Work place insecurity
and harassment
Males: Construction or
Transportation Jobs
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Harder to integrate in the
urban city



THEORETIC FRAMEWORK





RURALISING THE URBAN





INTER RURAL-URBAN LAND - 'ZWISCHENSTADT'

What is the rural in the urban?





| RURALISING THE URBAN - migration |





Ruralisation

Patterns of living of the rural inhabitants



| RURAL-URBAN PATTERNS |

HOUSING
INDOORS

INCOME
ACTIVITIES

SHARED
SPACE

SELF-INITIATED
HOMES

Urbanisation

Patterns of living of the informal urban inhabitants





Ruralisation

Patterns of living of the rural inhabitants



| RURAL-URBAN PATTERNS |

HOUSING
INDOORS

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ACTIVITIES

SHARED
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SELF-INITIATED
HOMES

Urbanisation

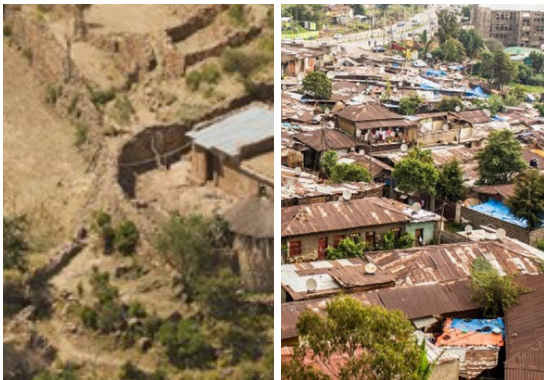
Patterns of living of the informal urban inhabitants





Ruralisation

Patterns of living of the rural inhabitants



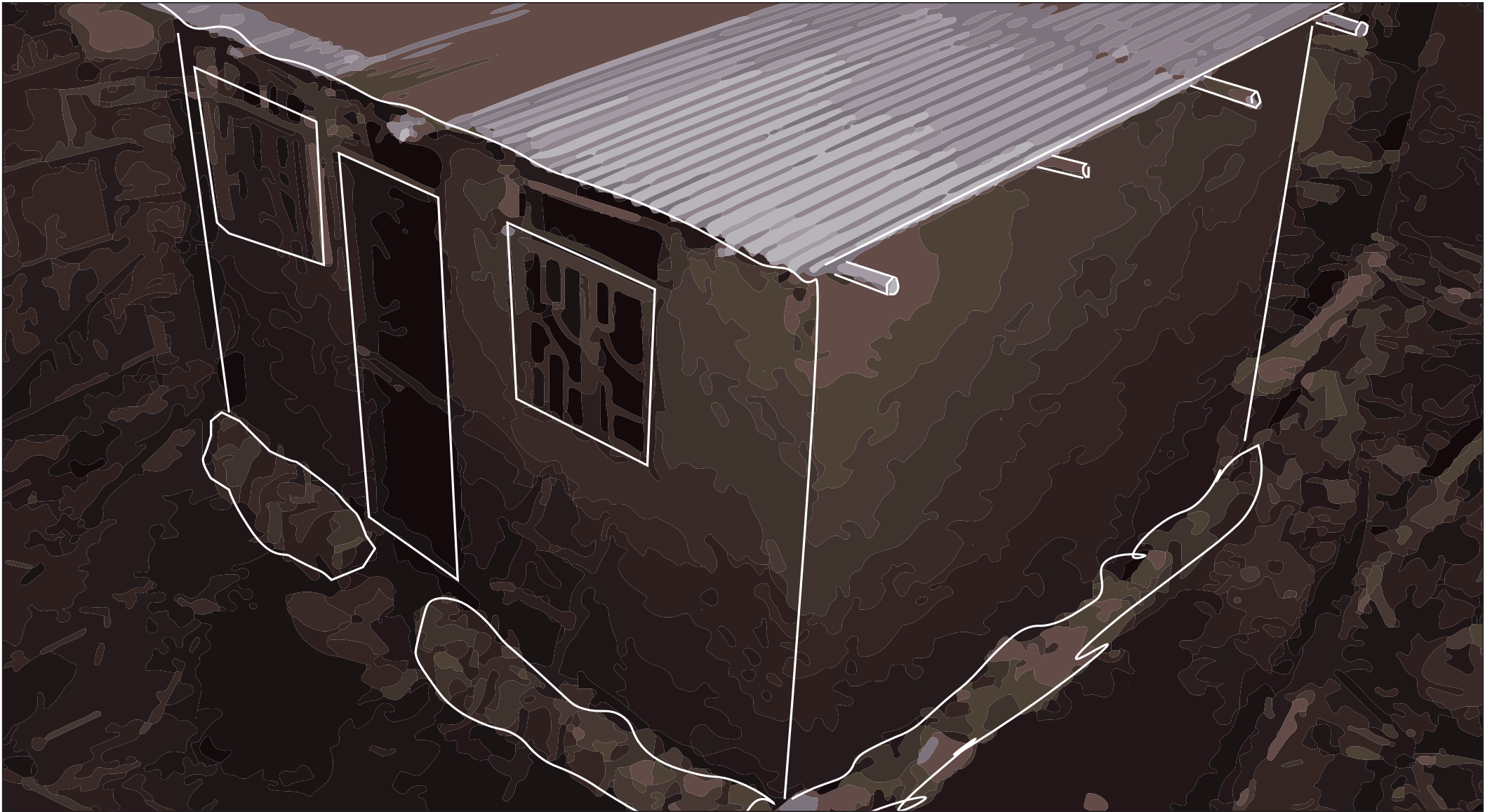
Urbanisation

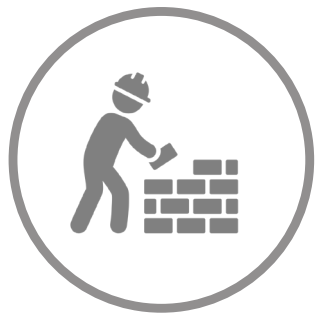
Patterns of living of the informal urban inhabitants

Urbanisation of the rural area's



| SELF-INITIATED HOUSING - chereka bet |





| SELF-INITIATED HOUSING - chereka bet |







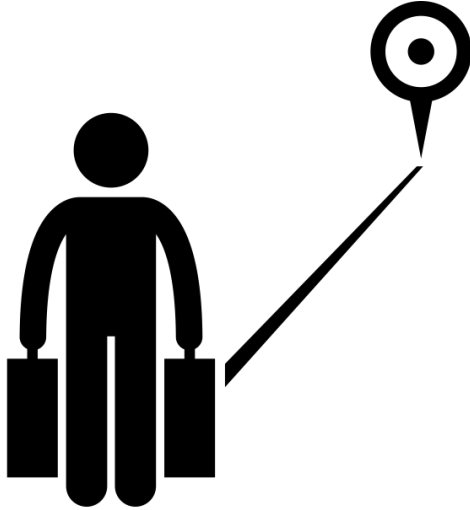
| The potential of self-initiated housing |



TOTALLY SELF-INITIATED
NO GOVERNMENTAL
SUPPORT/'ILLEGAL'



CONTRACTORS
GOVERNMENT DESIGN
MID-/HIGH-RISE



Urban Development Processes
Migration as consequence of
urbanisation



Ruralising the urban



Patterns of rural and urban
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Implementing incremental
housing strategy -
Self-built homes

TARGETGROUP?

| MIGRANT |

Amadi



Amadi - 16 year old rural migrant has no family or friends in the city hopes the city has more work oppertunities for him

EWS -
Economically Weaker Section

| MEET THE RESIDENTS - targetgroup |

Nuru



Nuru - 26 year old migrant dweller currently living in a tukul typology Together with her husband they decide to move to the city in order to provide a better life for their children

LIG -
Low Income Group

Abena



Abena - 56 year old urban dweller currently living in Kebele-housing in Kolfe with her husband- she is known for the neighborhood MAMA

LIG -
Low Income Group

Yonas



Yonas - 38 year old urban dweller want to move to a bigger home has to provide for a family of 5 job in construction

MIG -
Middle Income Group

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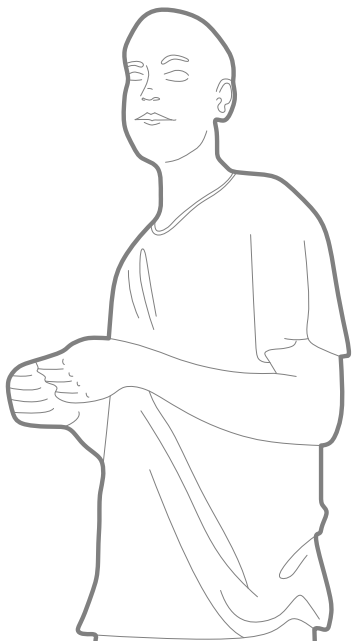
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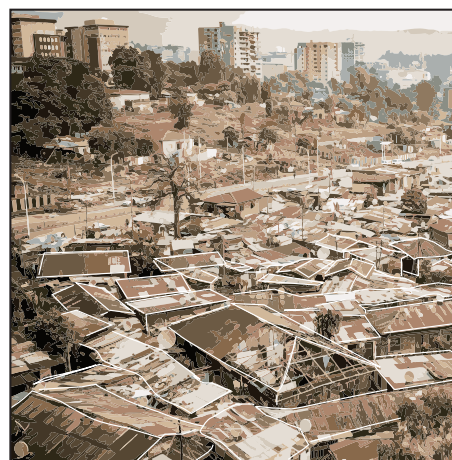
Abena



Yonas



EWS -
Economically Weaker Section



LIG -
Low Income Group



LIG -
Low Income Group



MIG -
Middle Income Group

MORNING

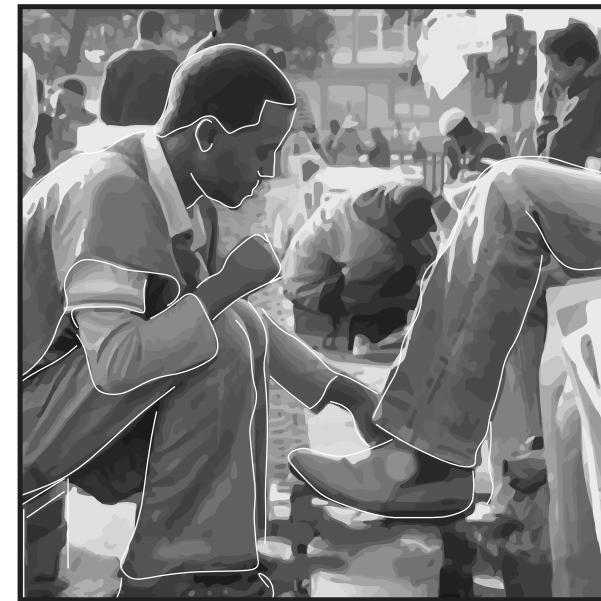


Waking up in a (bed)room with the family (sharing the sleeping space)

MIDDAY



Work activity from home: selling Injera

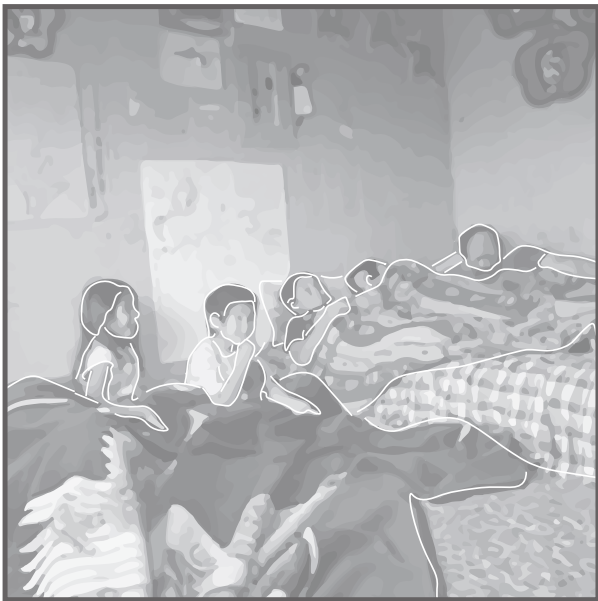
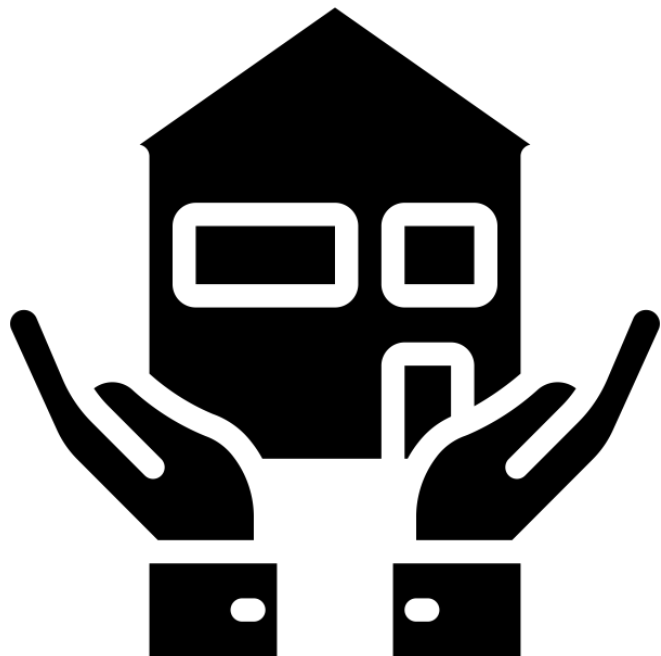


Workactivity outside: formal and informal f.e. Streetvendors, collecting trash, construction, (urban) farming

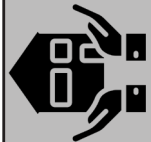
EVENING



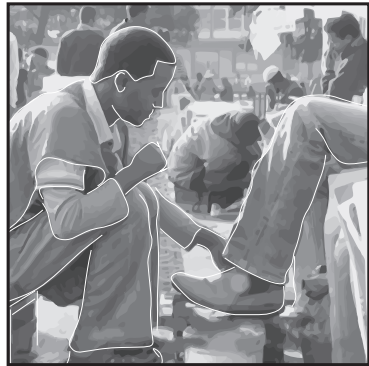
Meeting up with the neighbours/ Visting family



TOOLKIT - DWELLING UNIT

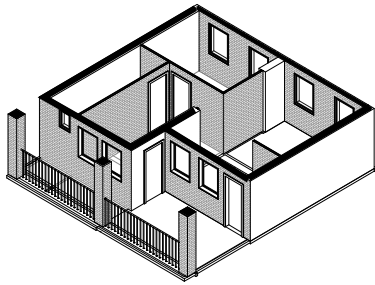


MIGRANT INDIVIDUAL

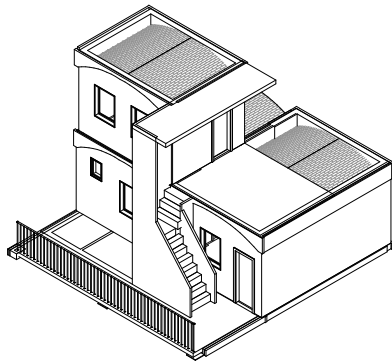


EVERYDAY PATTERNS
NEEDS & ASPIRATIONS

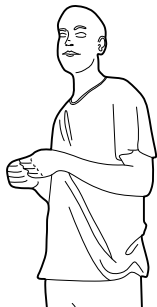
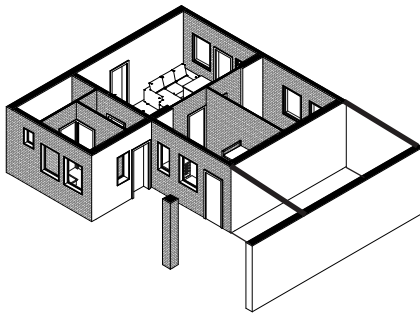
UNIT TYPOLOGY



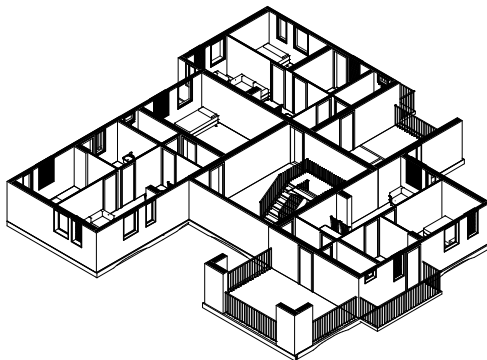
MIGRANT FAMILY
3-5 PERSON HOUSEHOLD



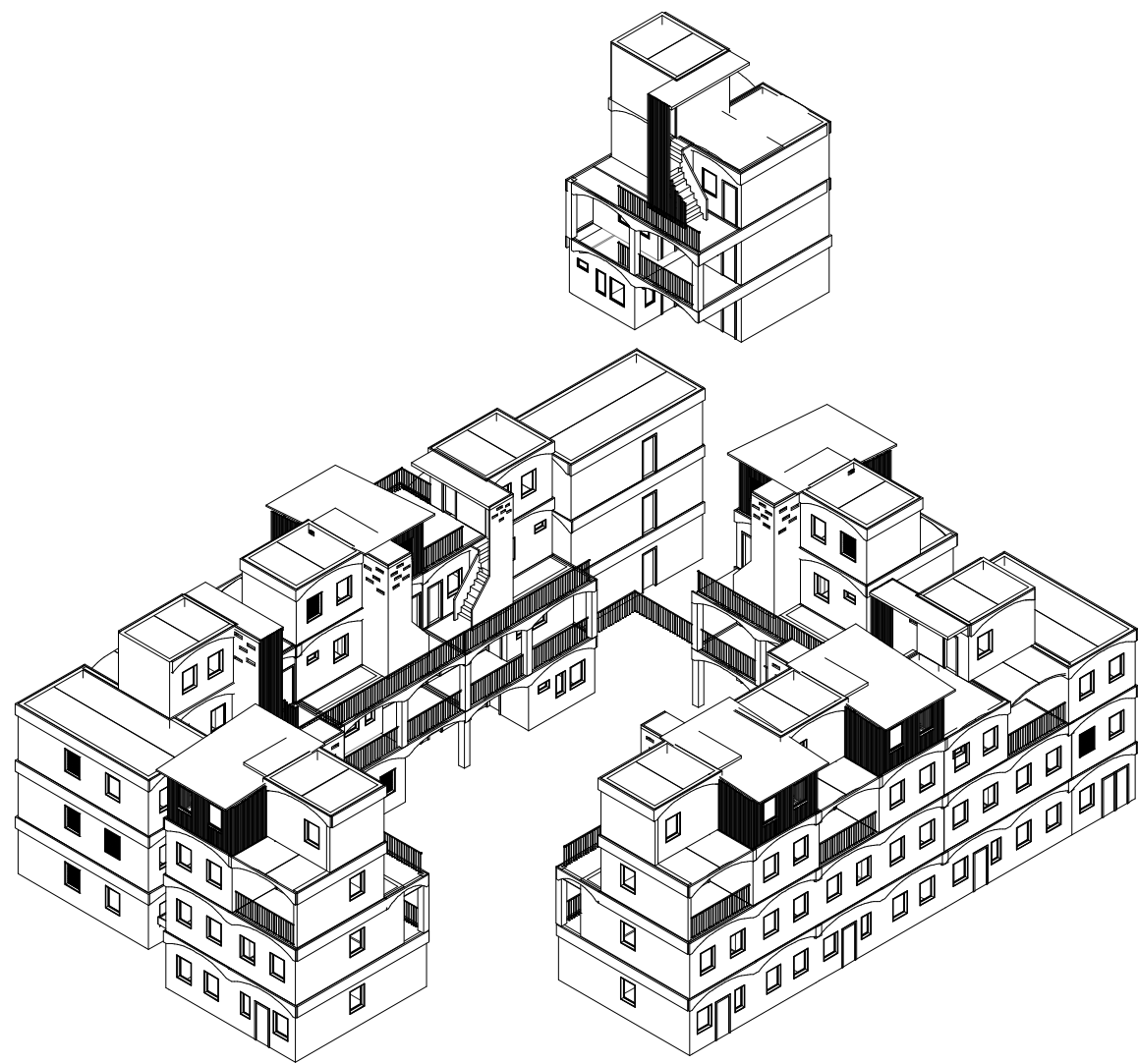
URBAN DWELLER
2-3 PERSON HOUSEHOLD



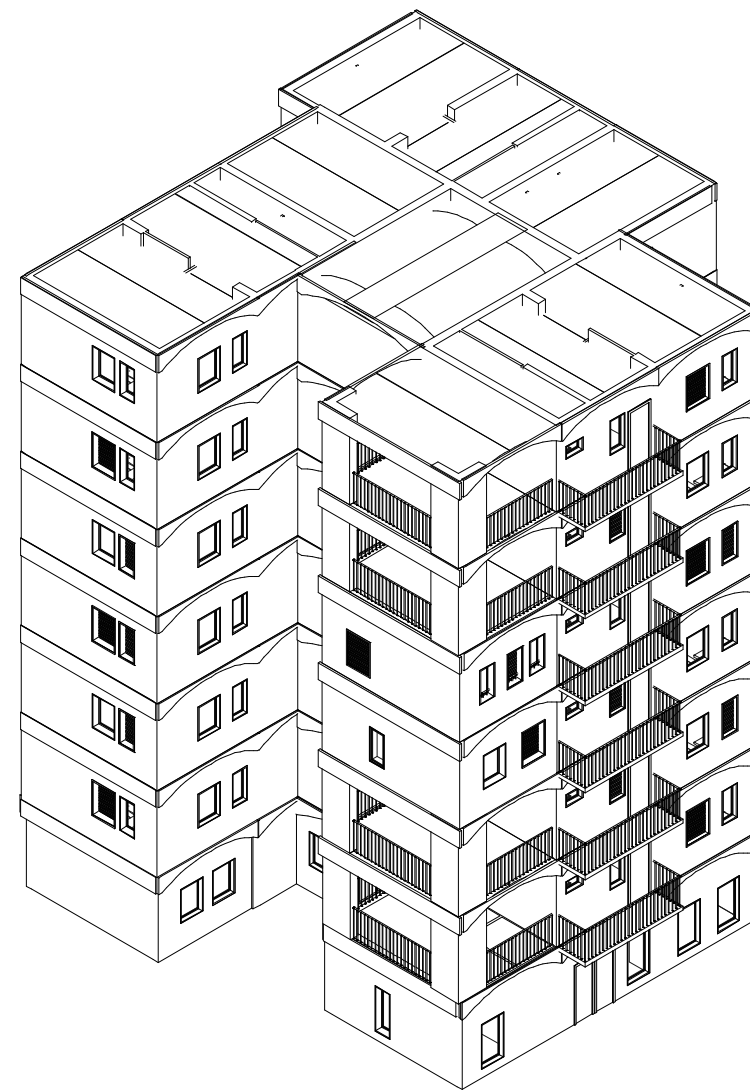
URBAN DWELLER
4-6 PERSON HOUSEHOLD



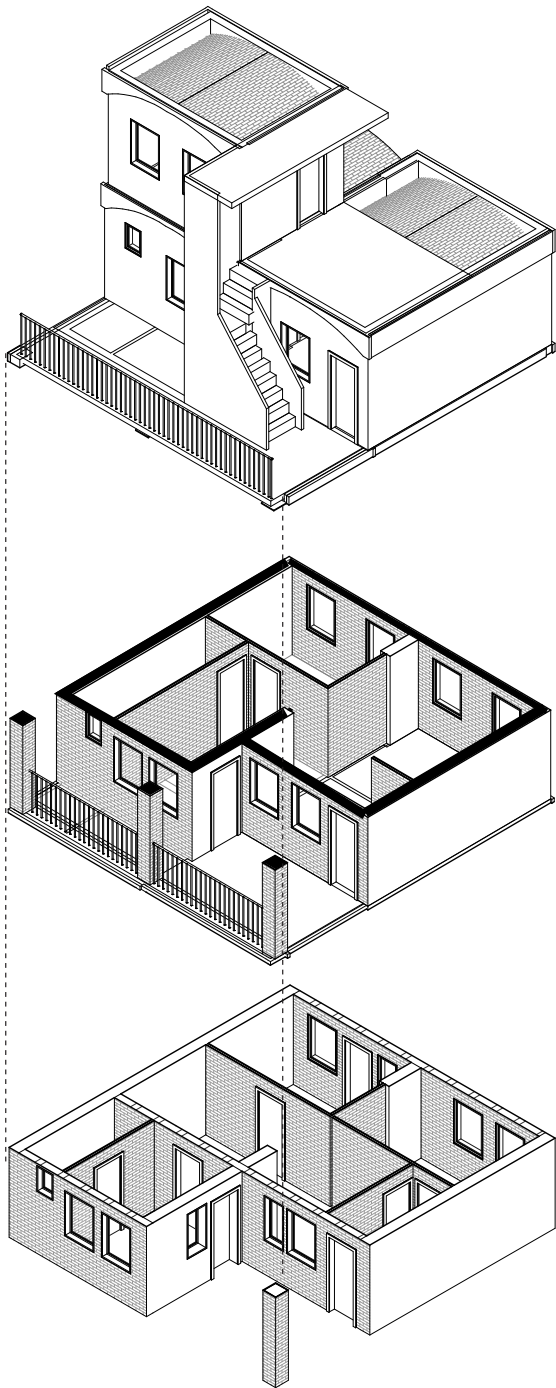
LOW-RISE TYPOLOGY



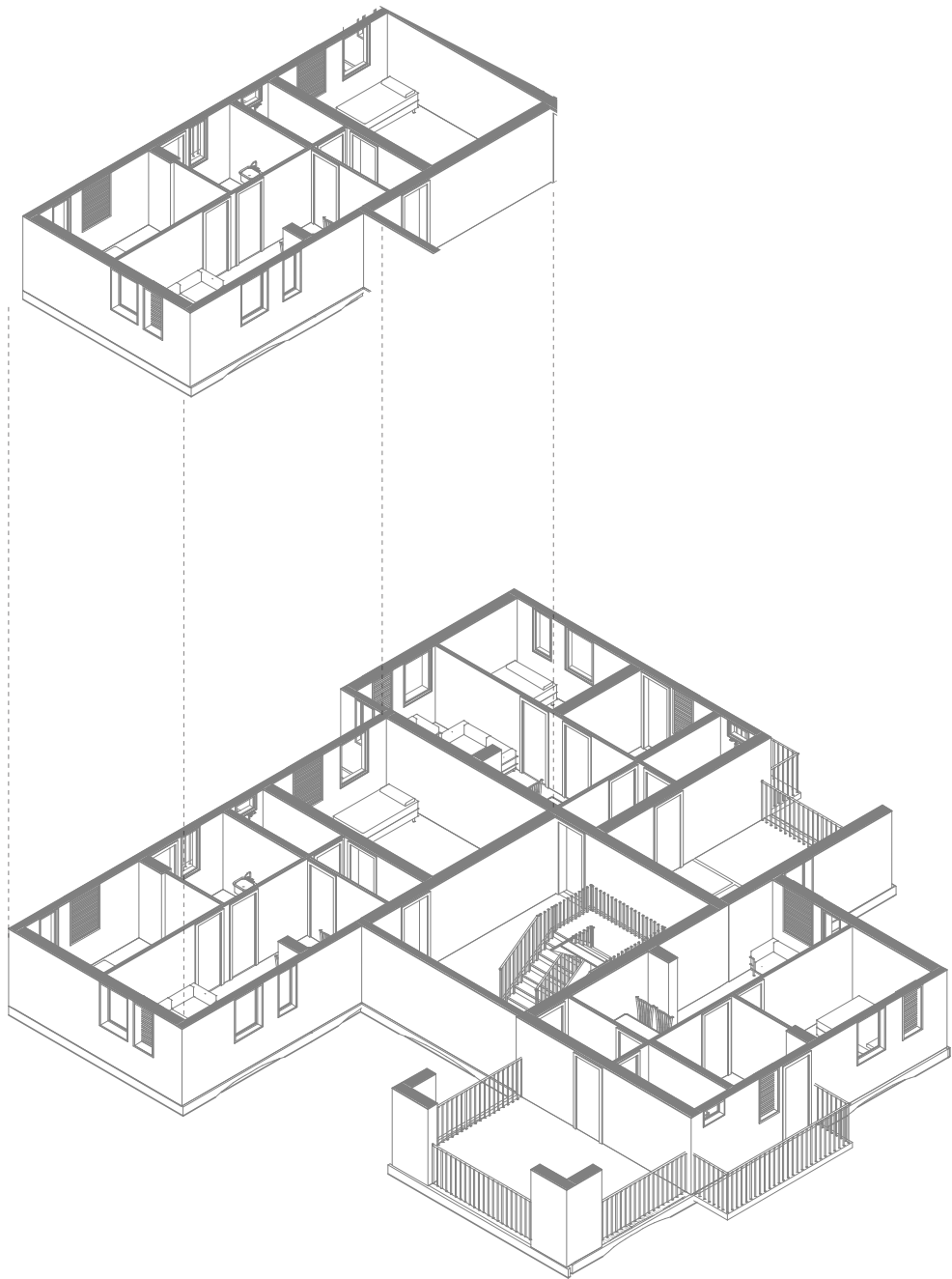
MID-RISE TOWER

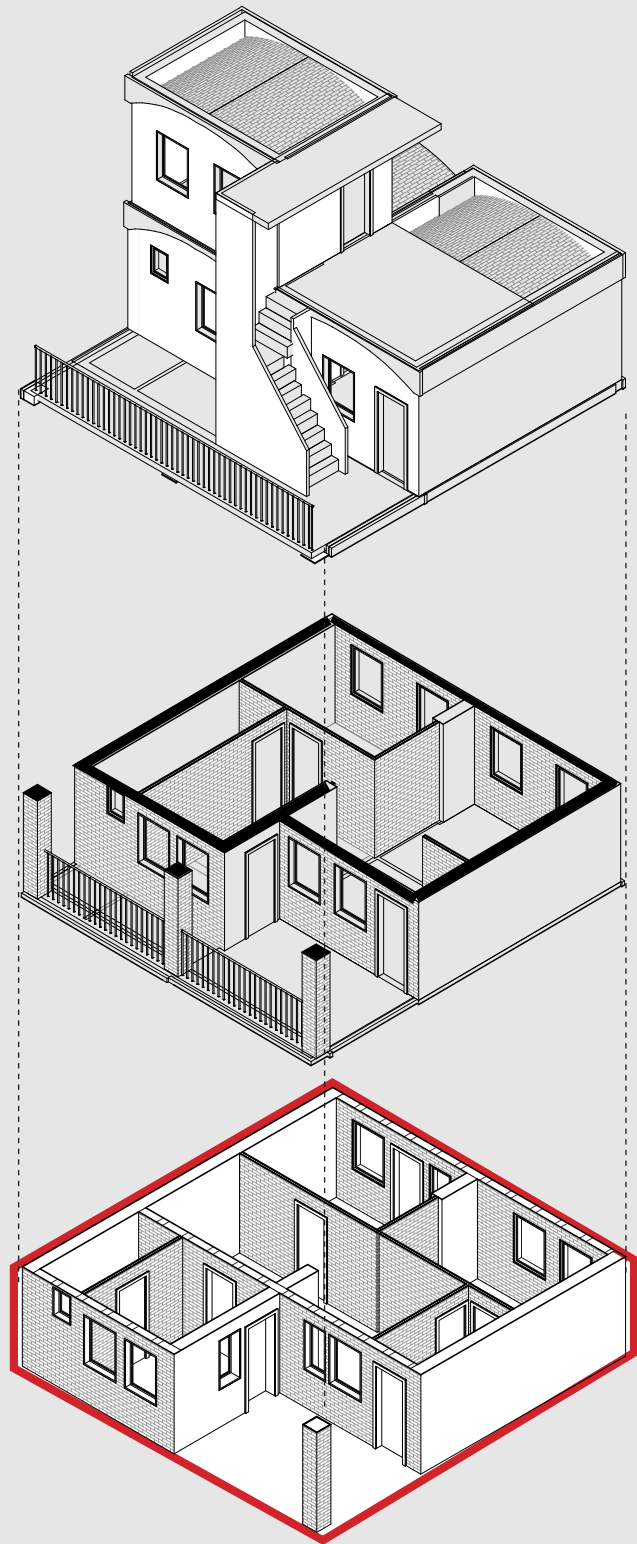


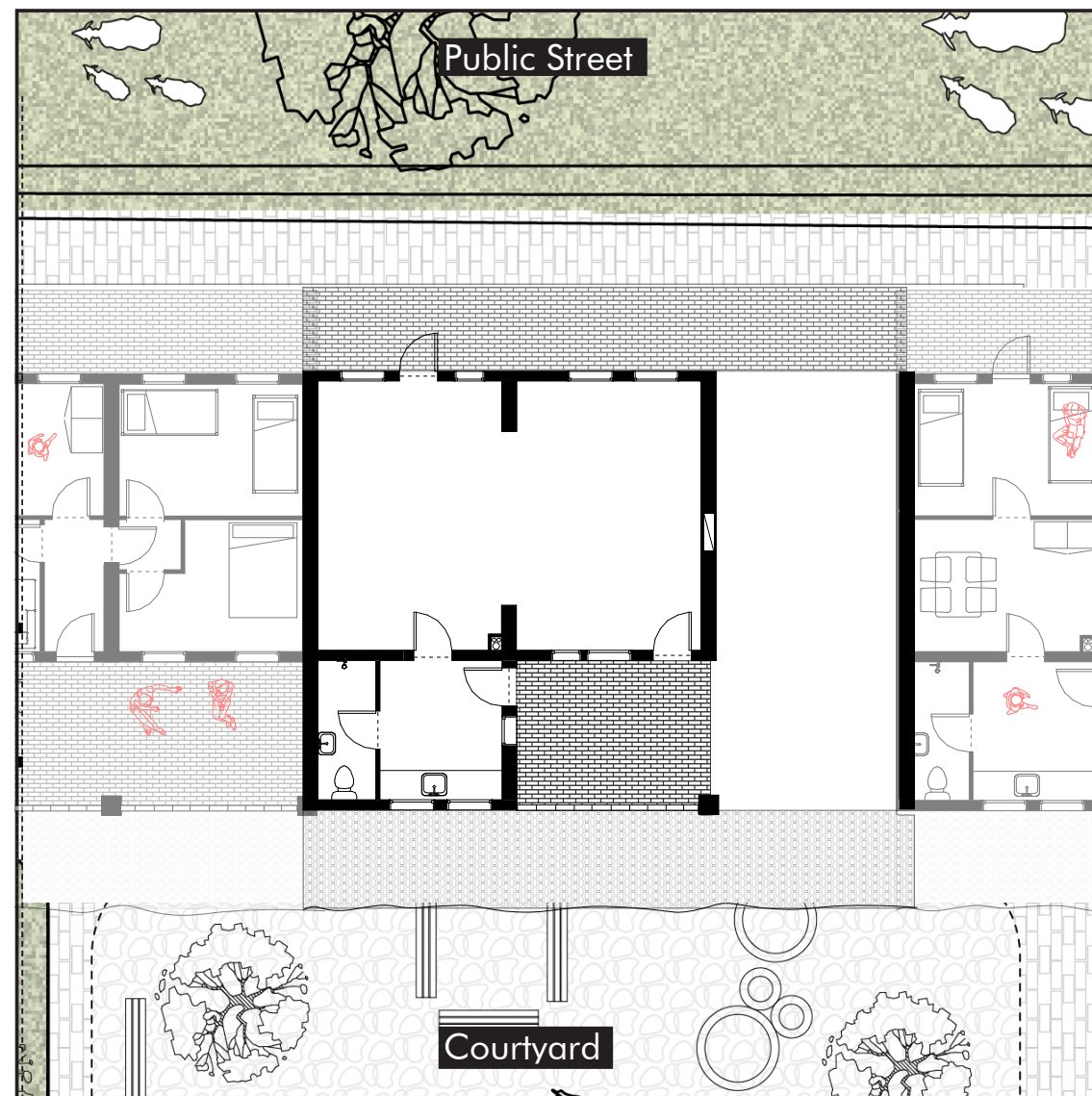
LOW-RISE TYPOLOGY



MID-RISE TOWER



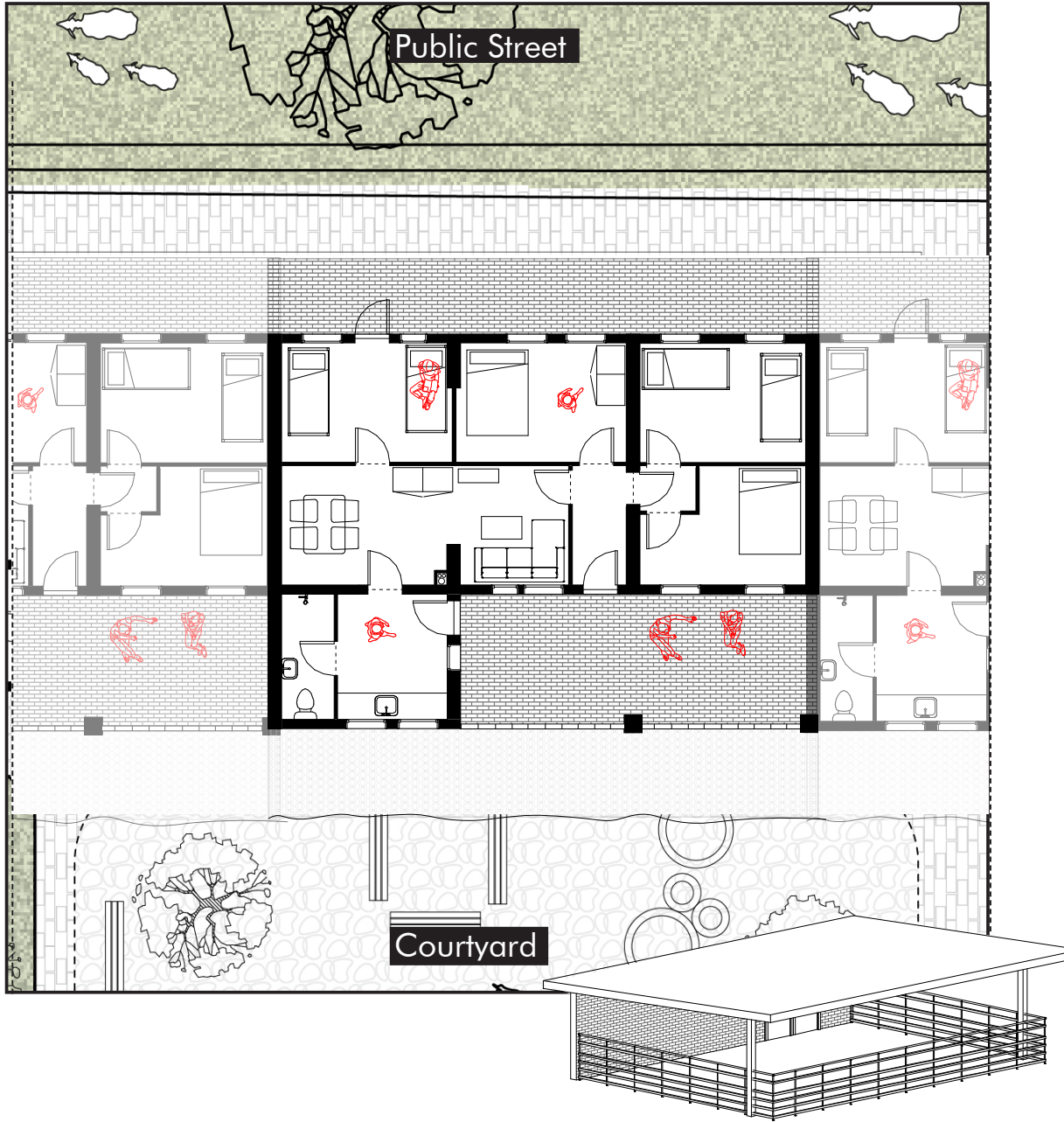




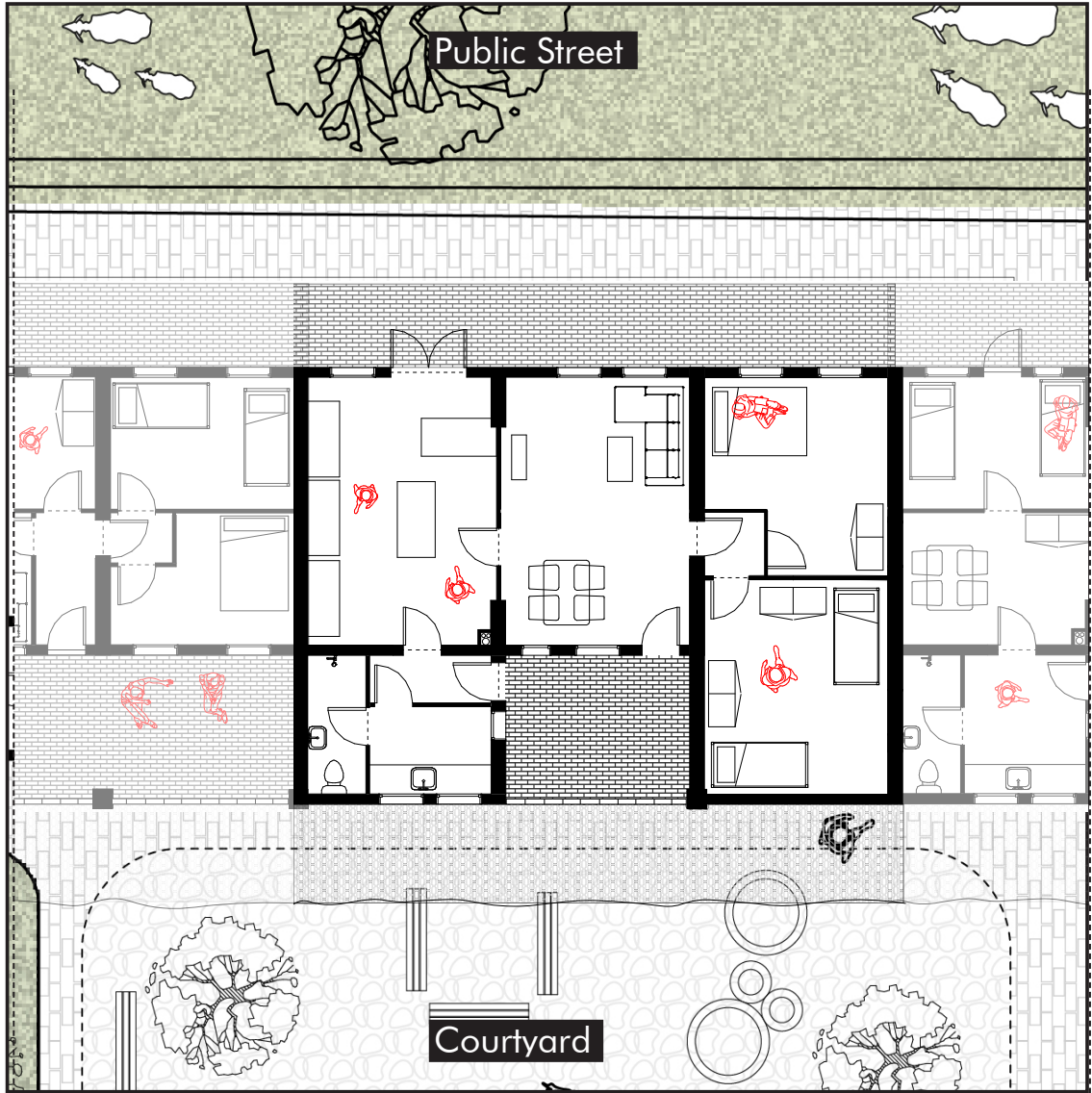
Open space layout



| DWELLING - Story of Nuru |



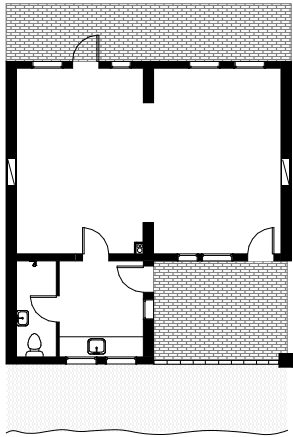
There will be a temporary shared kettle placed in some of the courtyards - to stimulate urban farming.



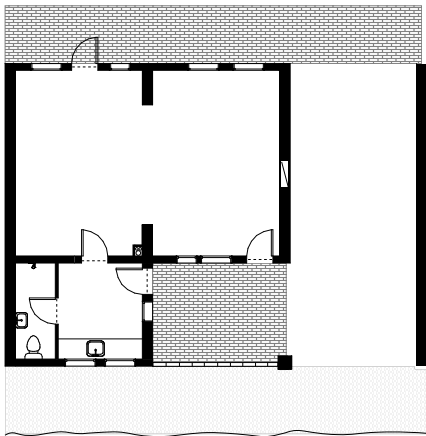
Incremental to store



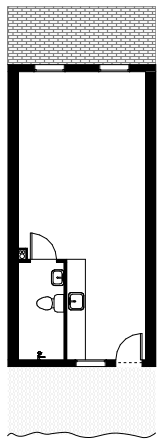
| ARCHITECTURE - Ground Floor |



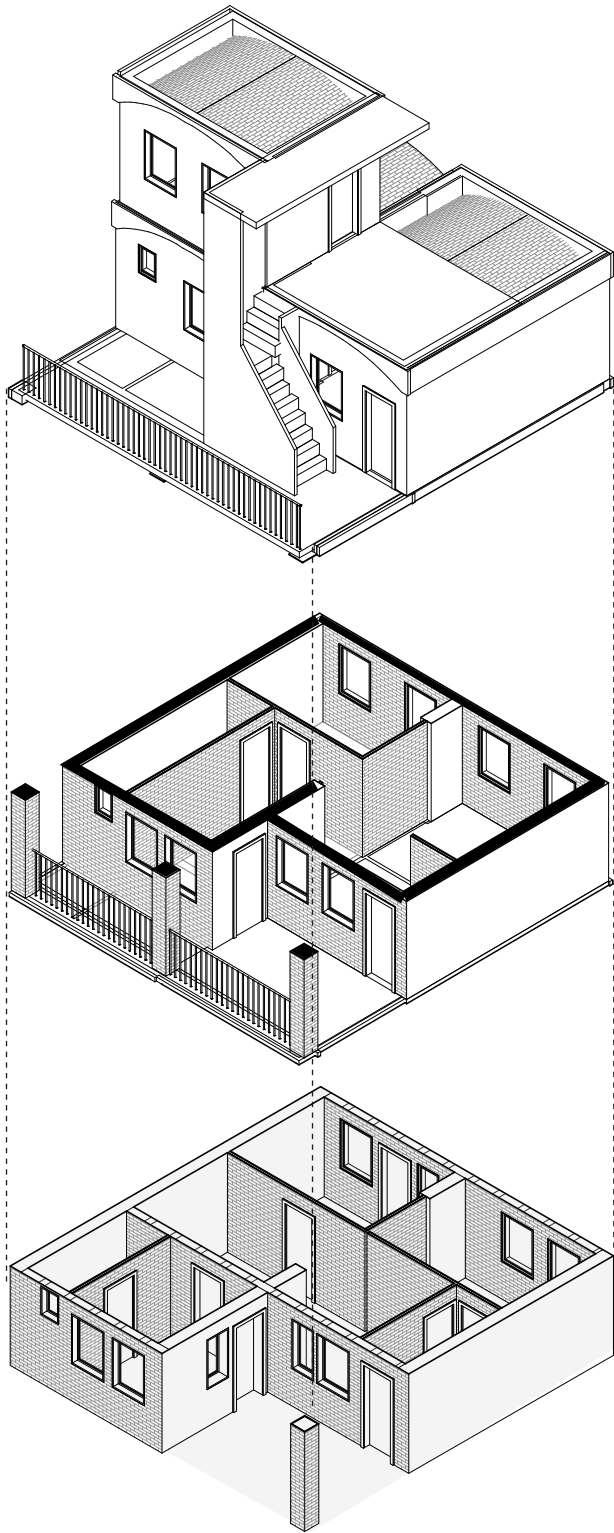
standard apartment
layout - 56m2

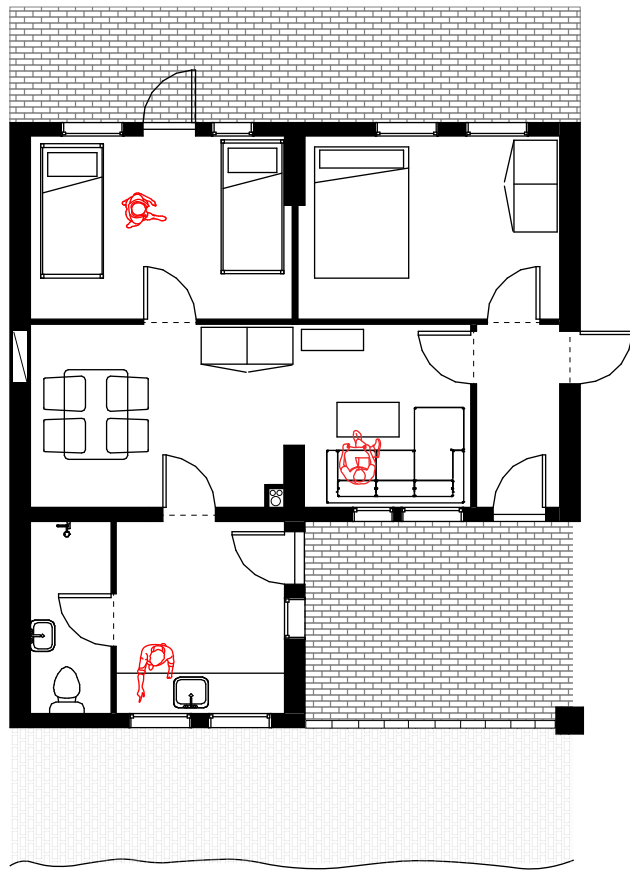
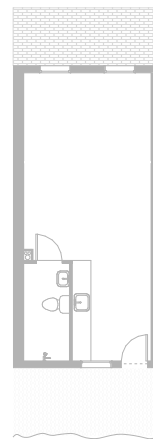
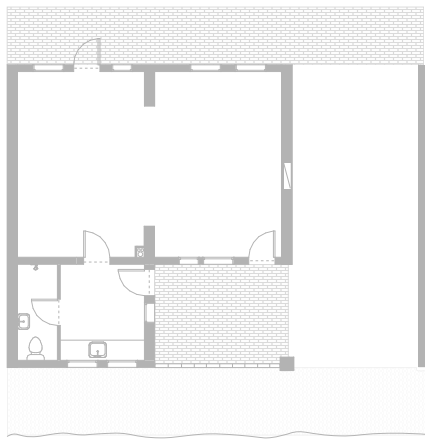
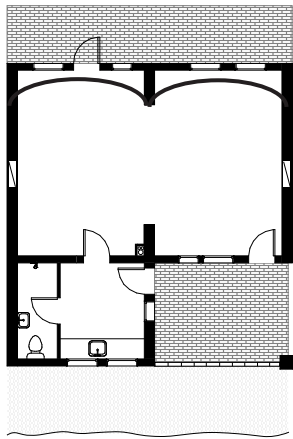


3-unit -
56m2 +33m2

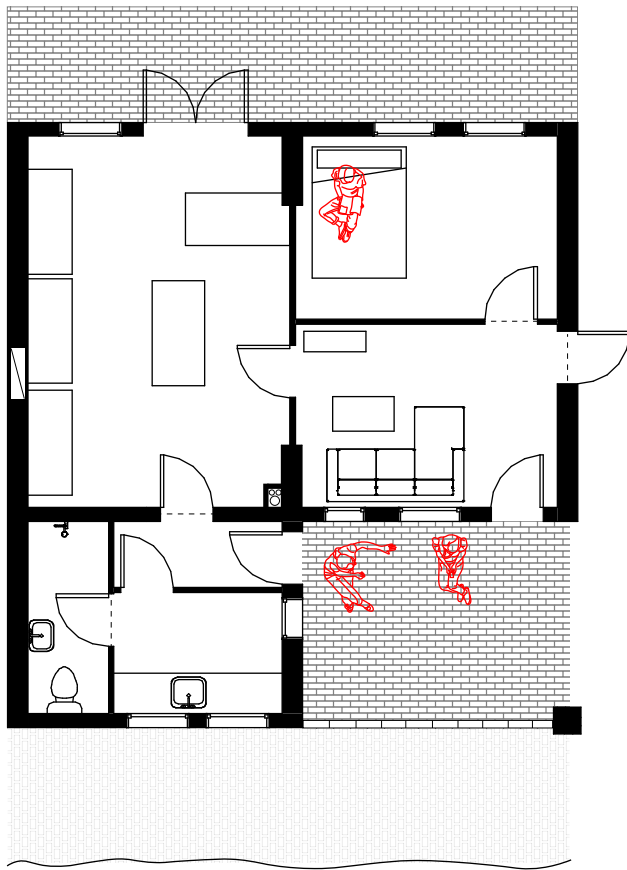


1-unit
33m2

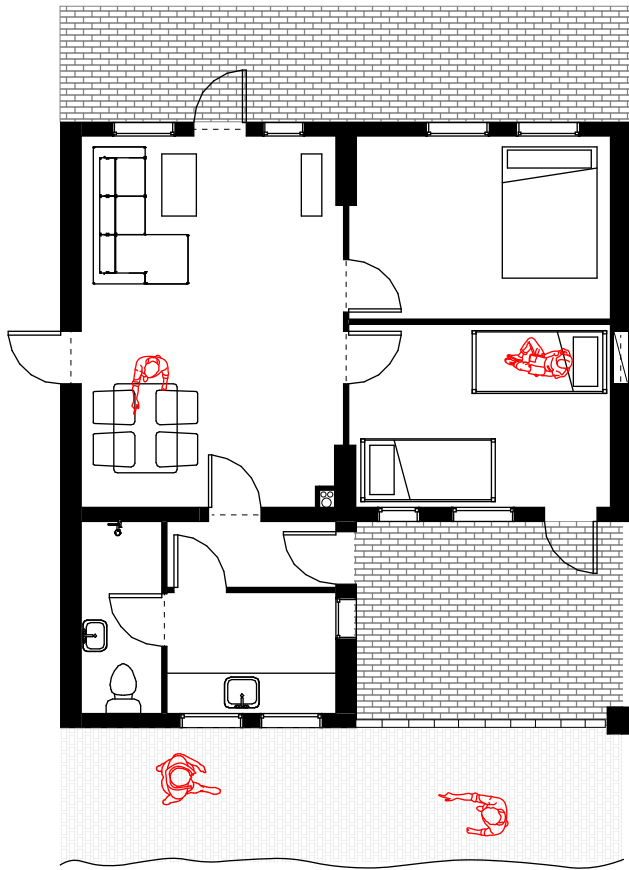




Lay-out with two bedrooms, kitchen and entrance connected to patio

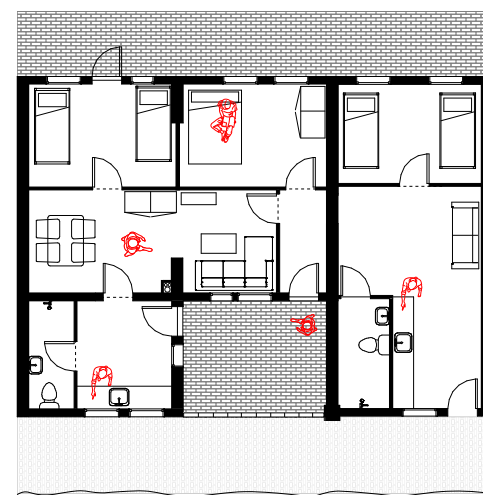
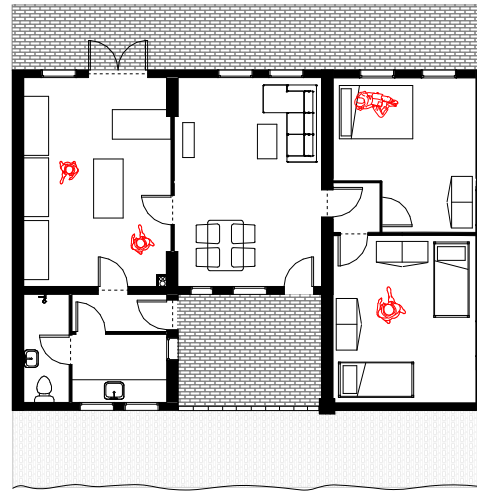
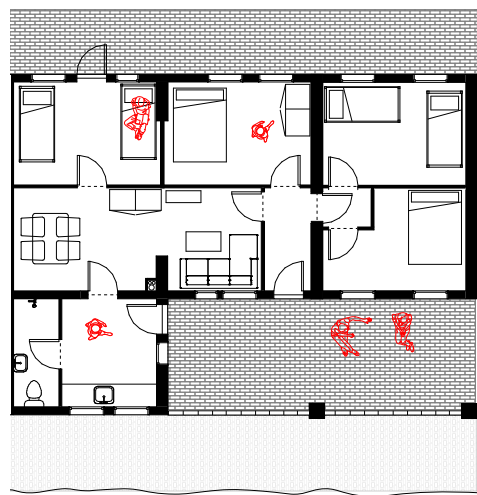
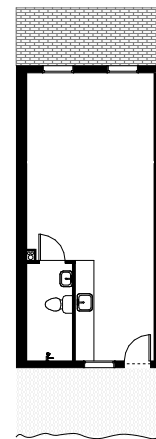
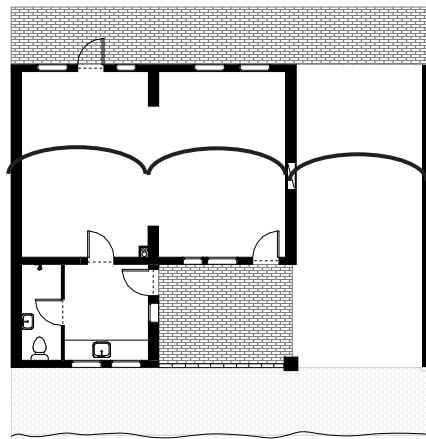
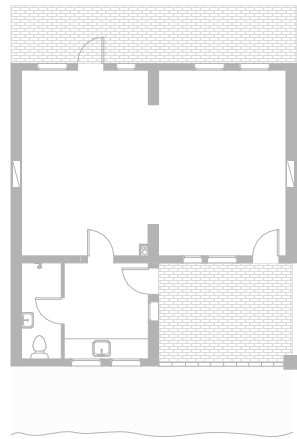


Lay-out with a store possibility



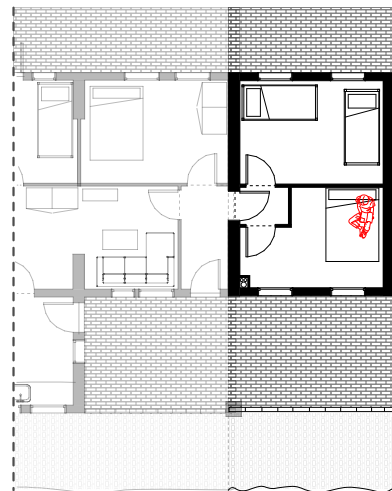
Lay-out with living room facing the streets

| ARCHITECTURE - Ground Floor |

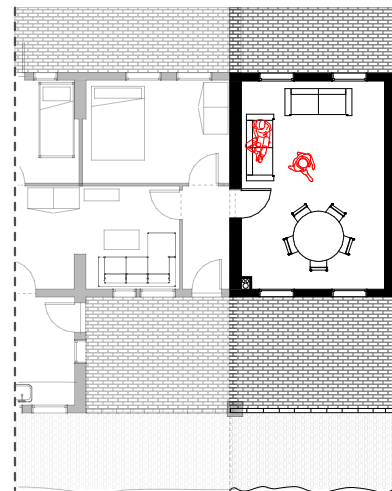


Store

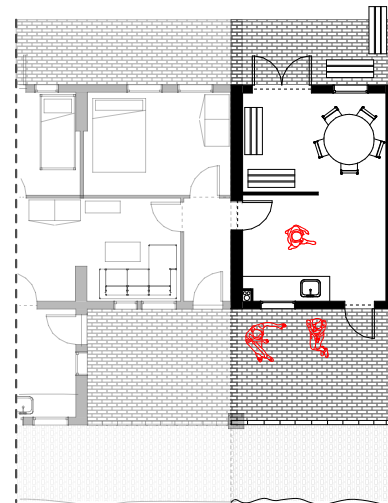
Studio to rent-out



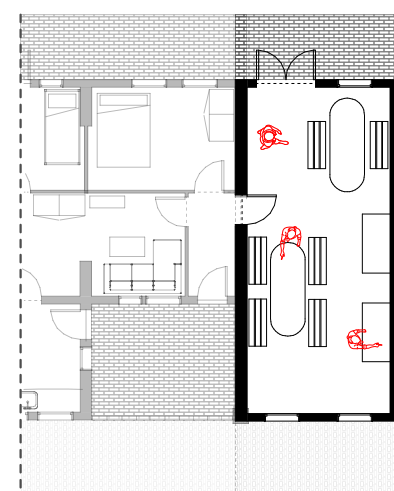
Bedroom



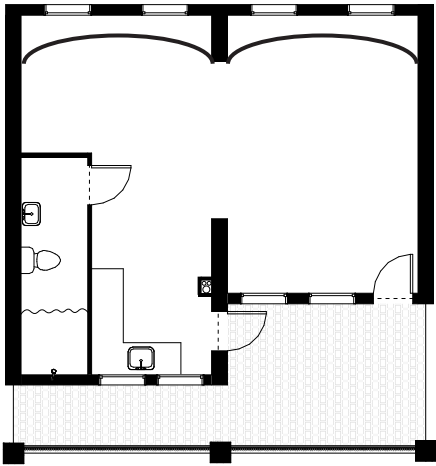
Living Space



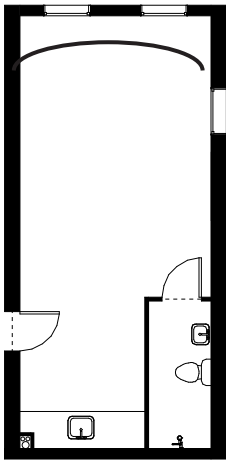
Food station



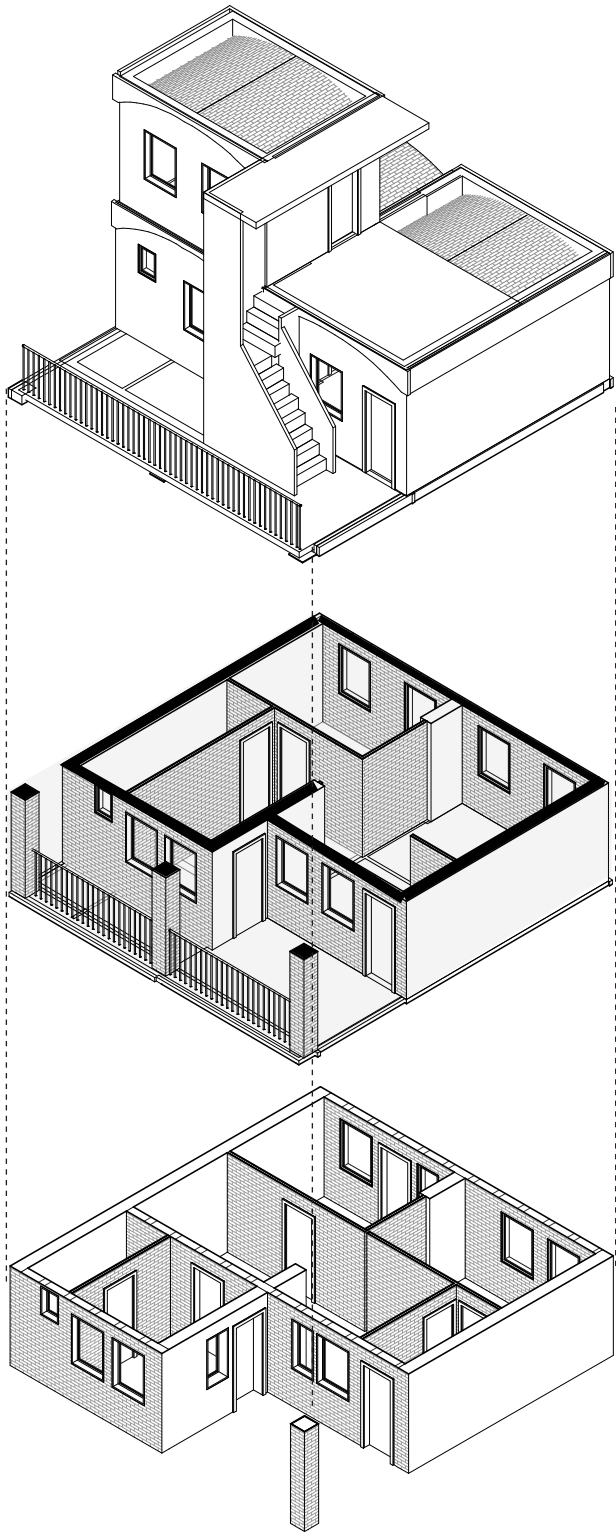
Workshop space



48m2

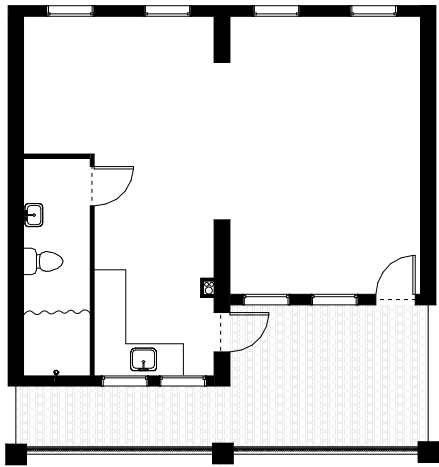


23m2

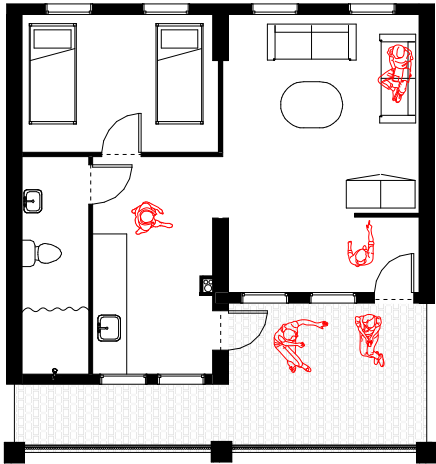
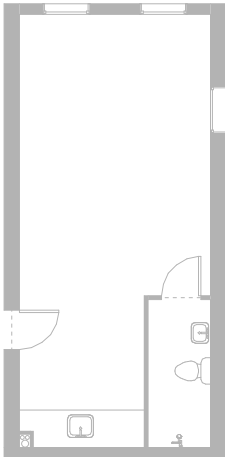


| ARCHITECTURE - Level 1 Standard Unit |

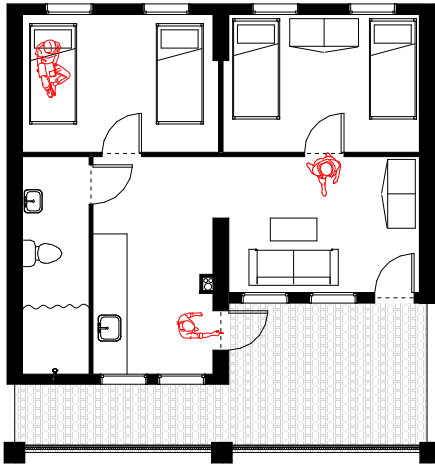
Public Street



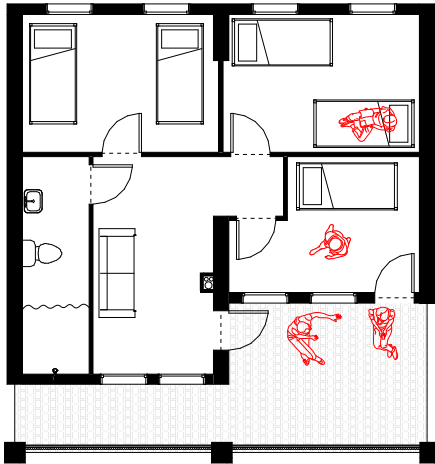
Courtyard



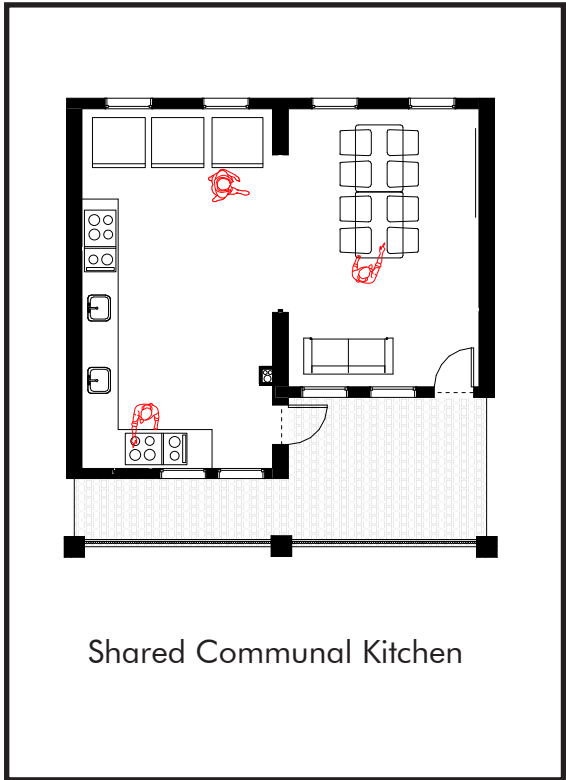
One bedroom



Two bedrooms

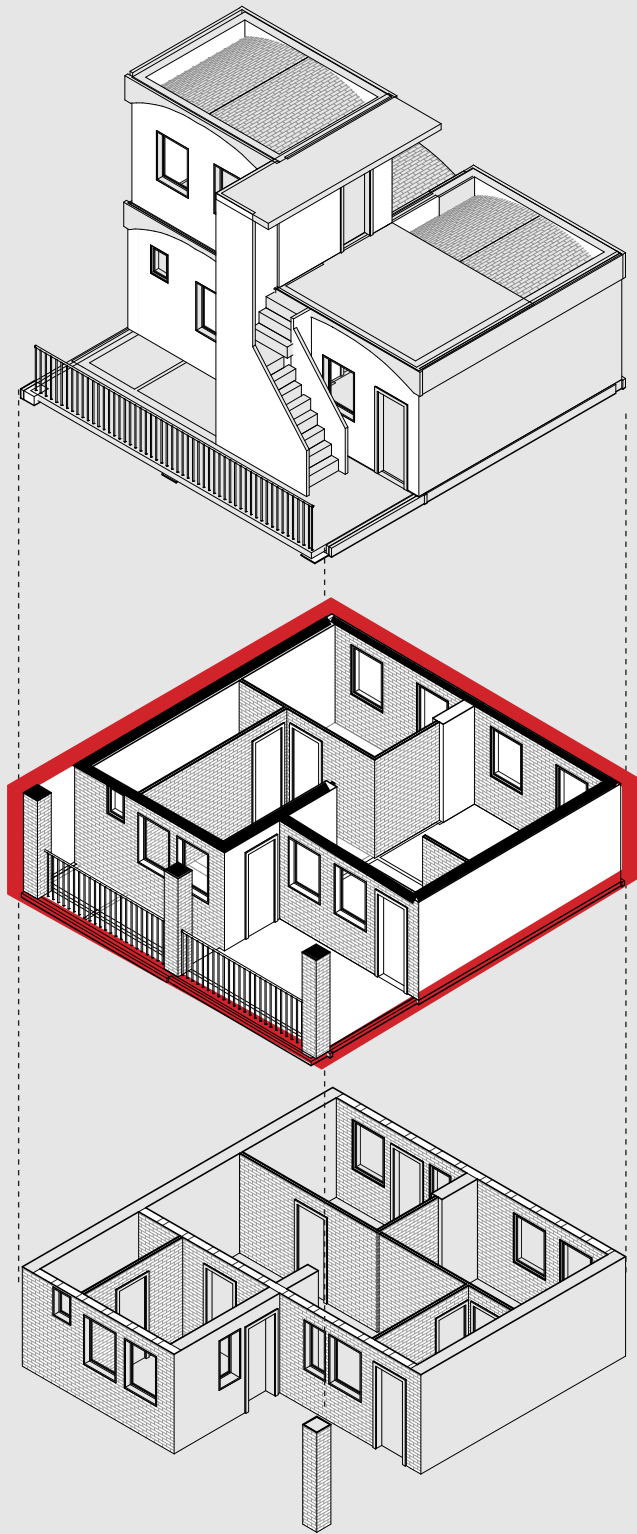


No kitchen, 3 bedrooms

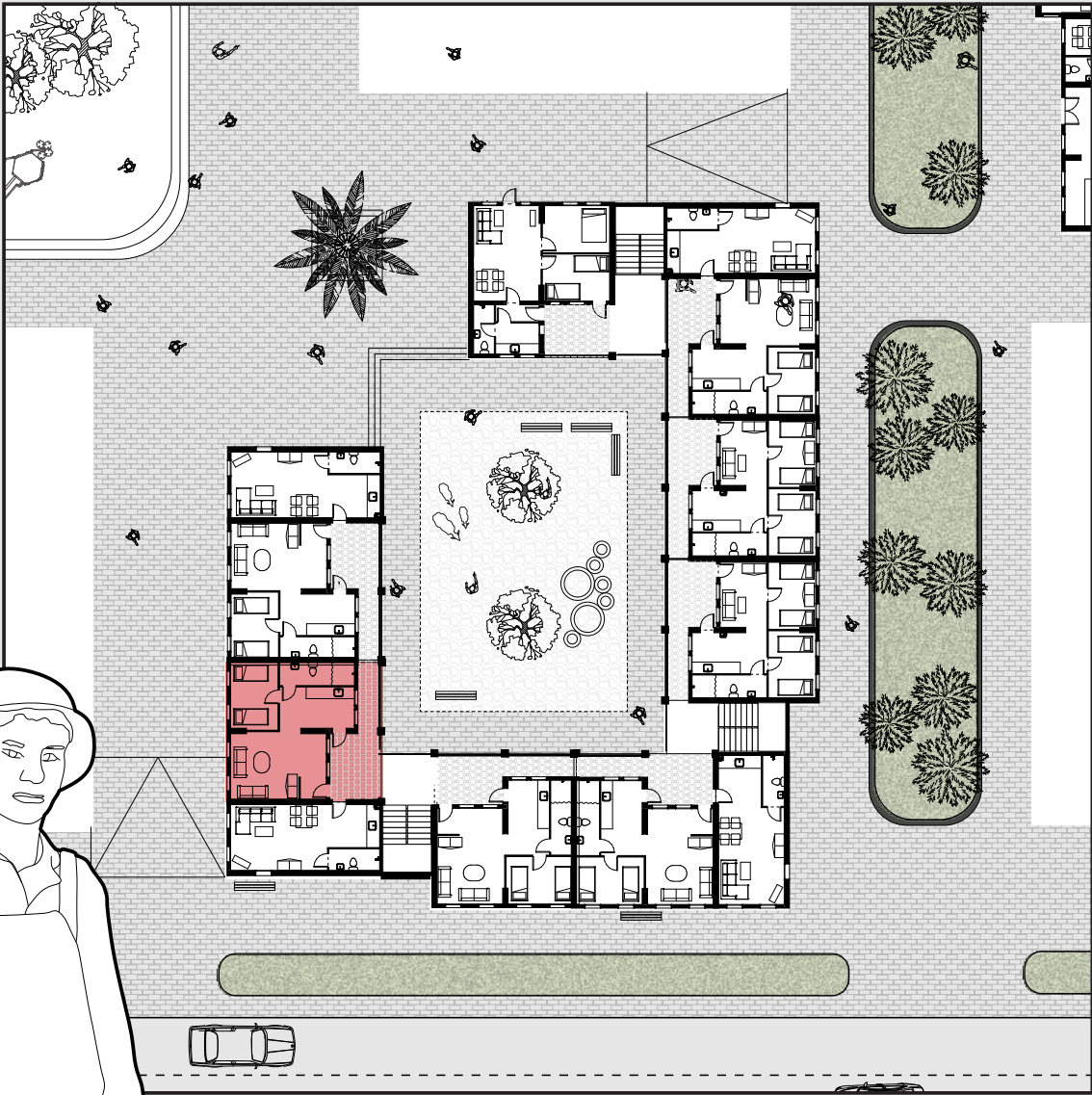


Shared Communal Kitchen

| DWELLING - Story of Amadi |



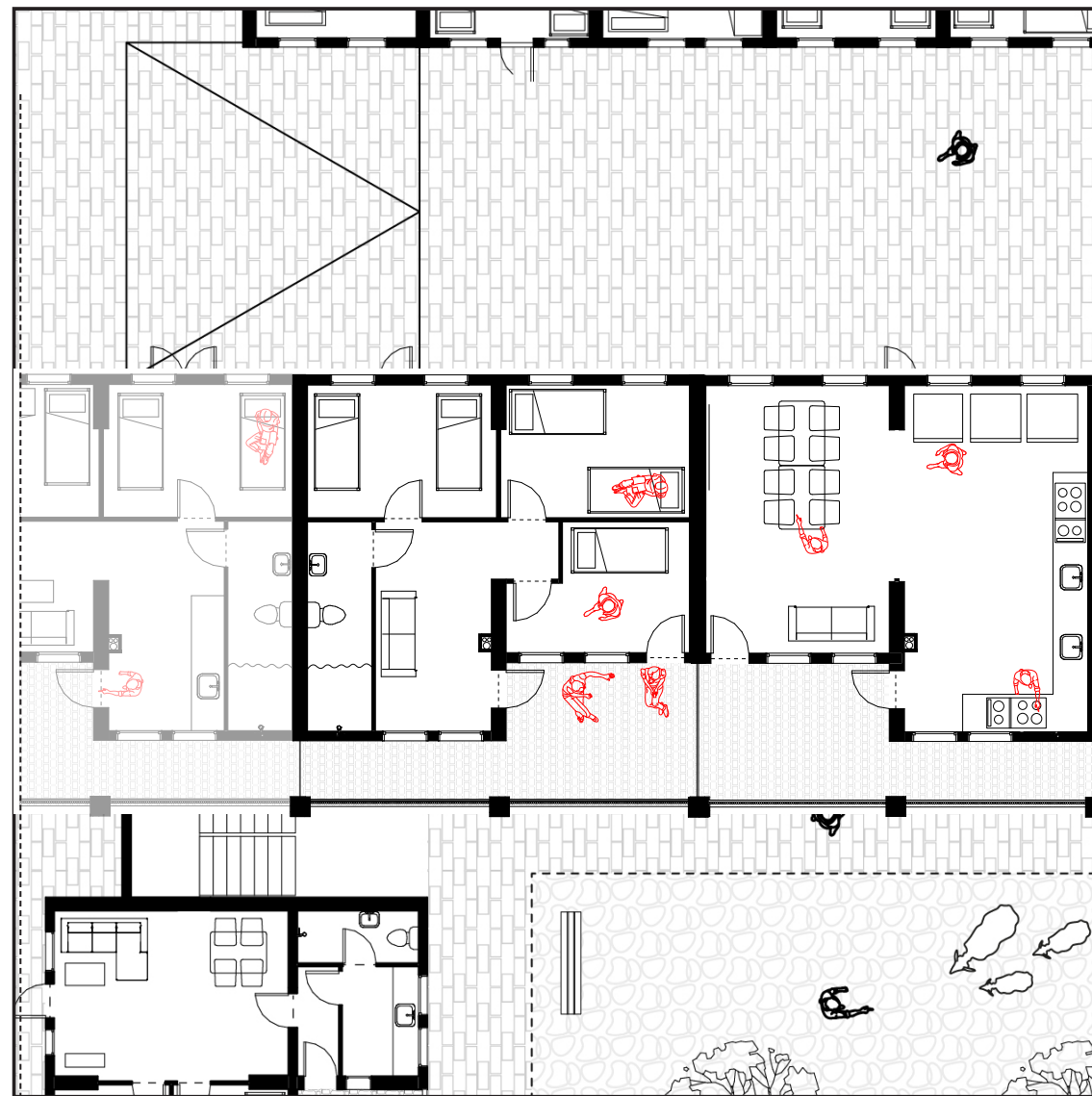
48 m2 or 23 m2



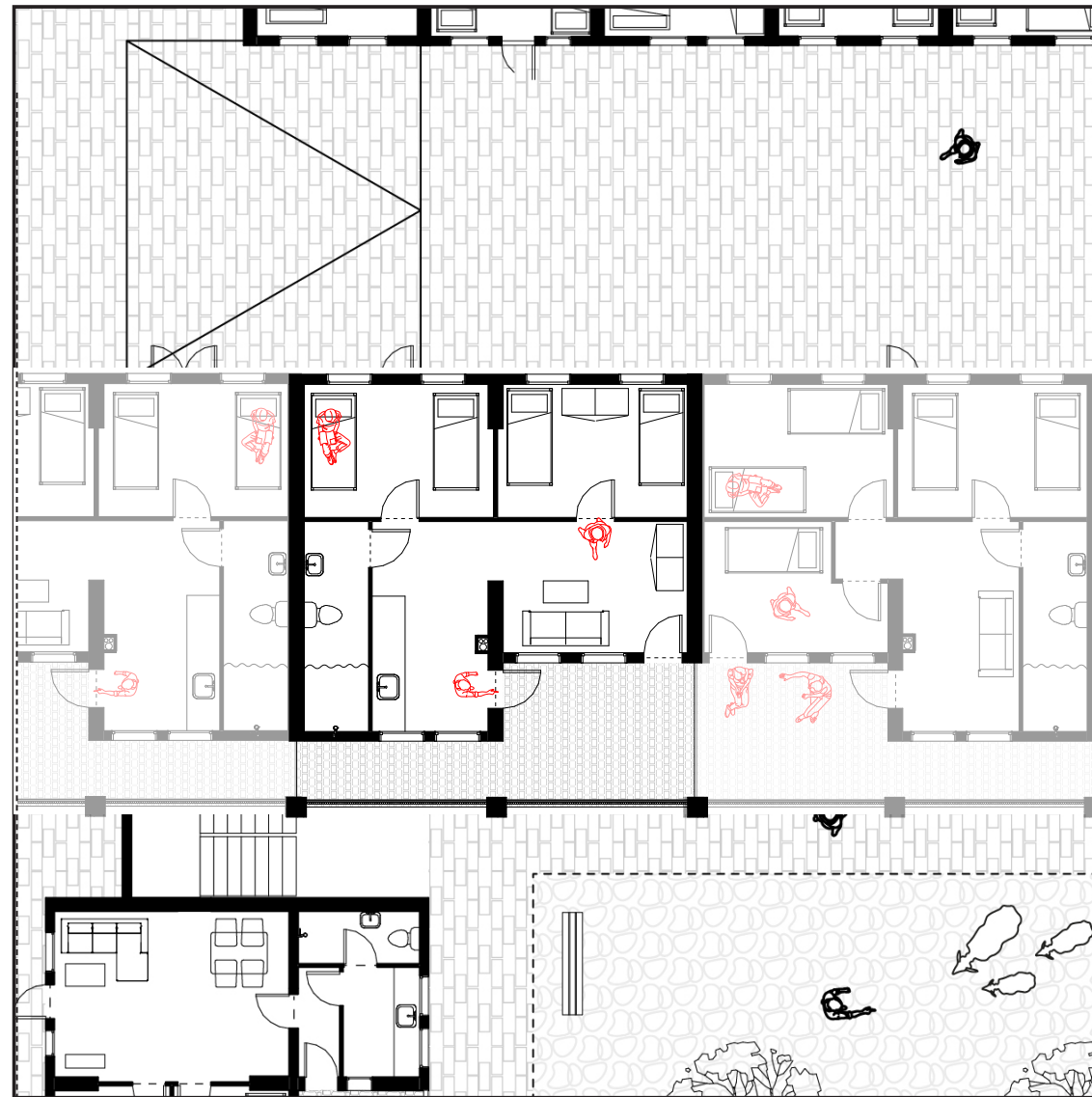
| MIGRANT |



Sharing an apartment with friends.

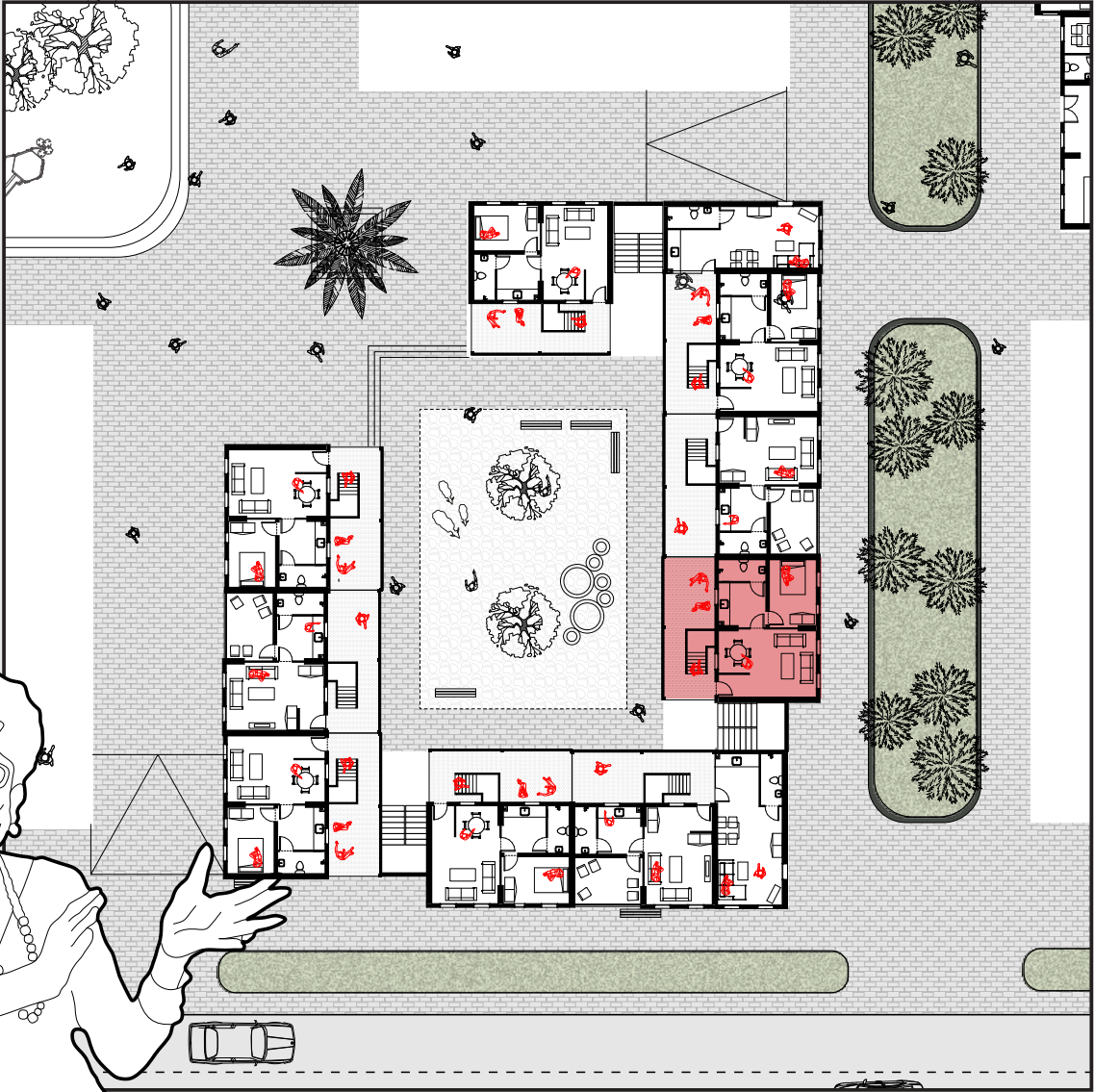
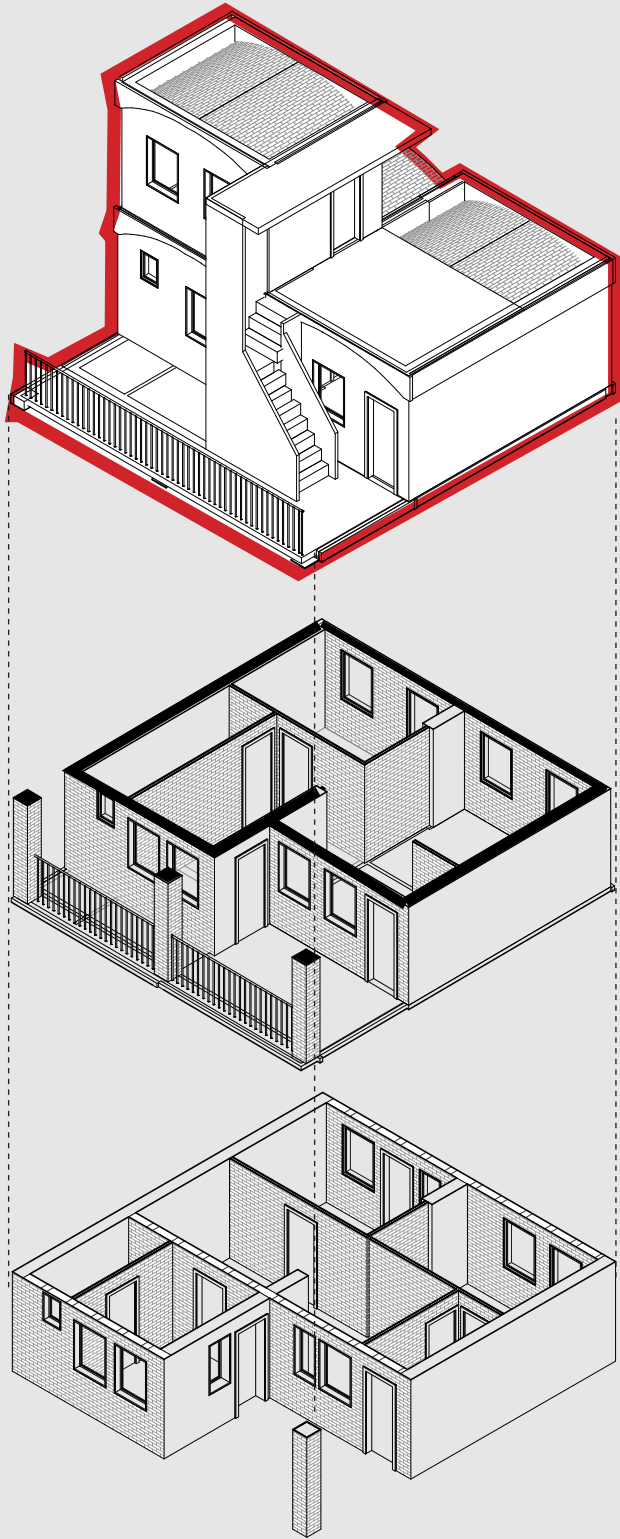


Active gallery due to domestic activities and communal kitchen.

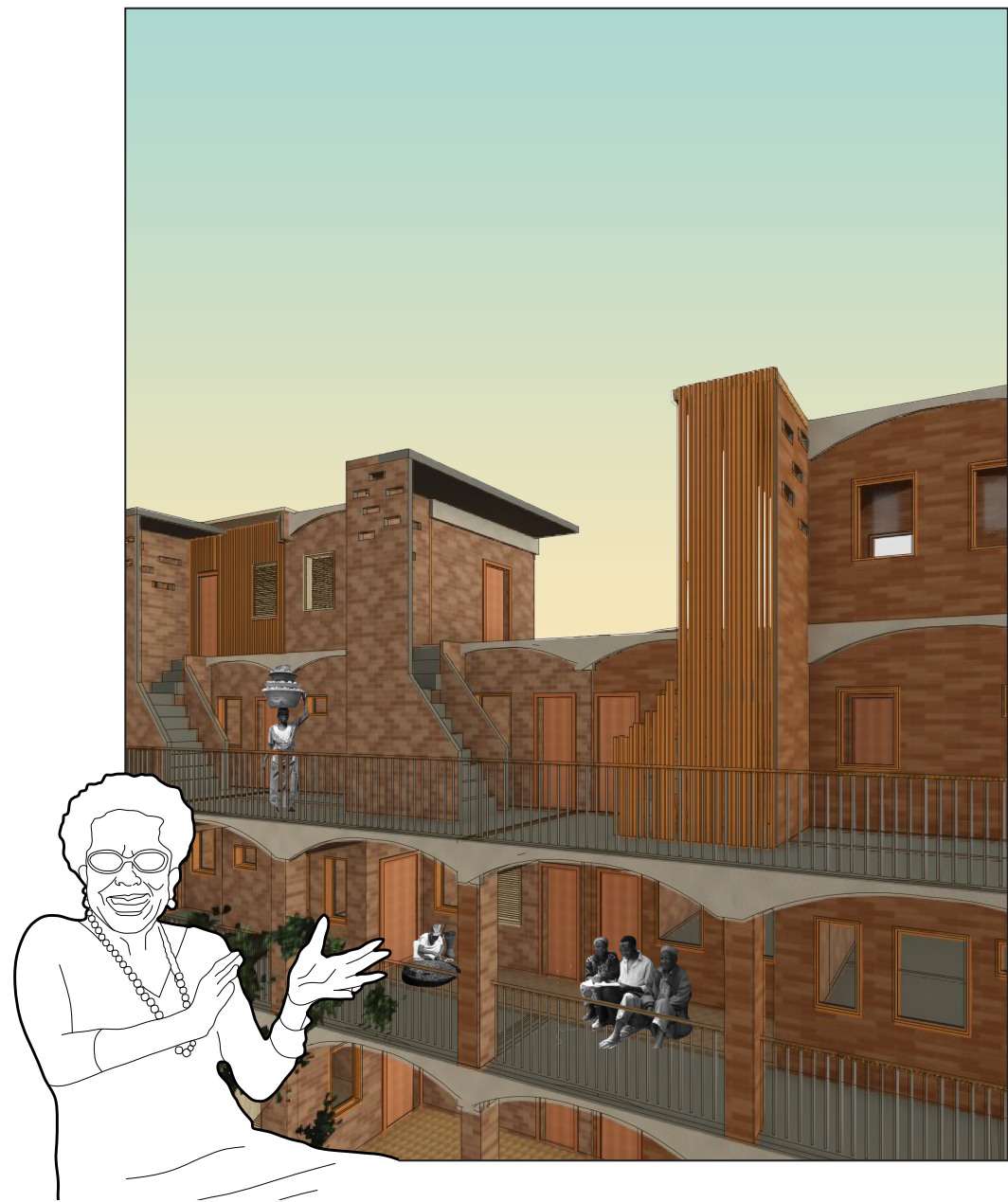


Living in a more private space.

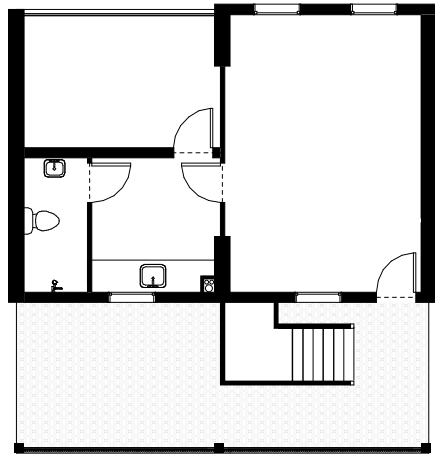
| DWELLING - Story of Abeda |



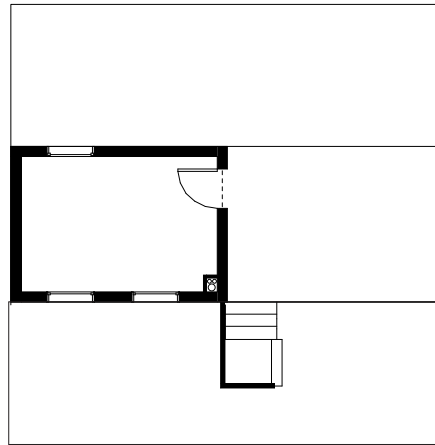
| URBAN DWELLER |



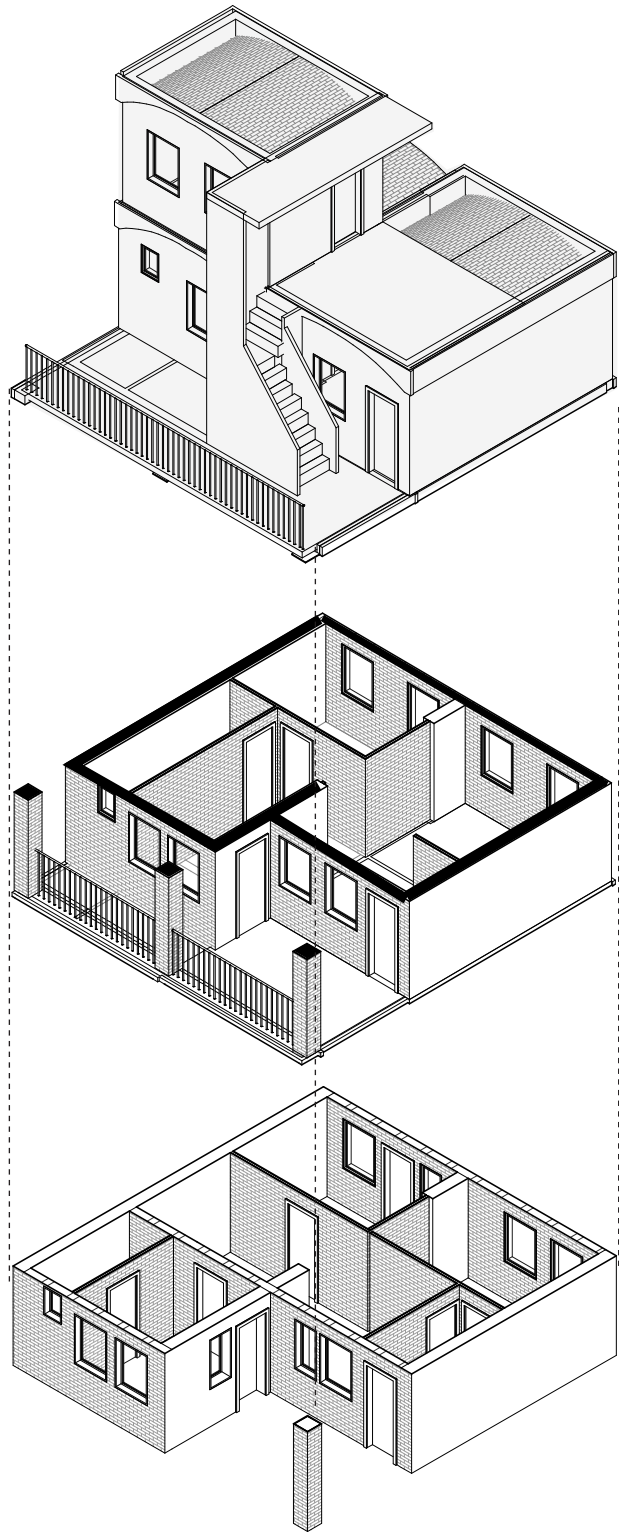




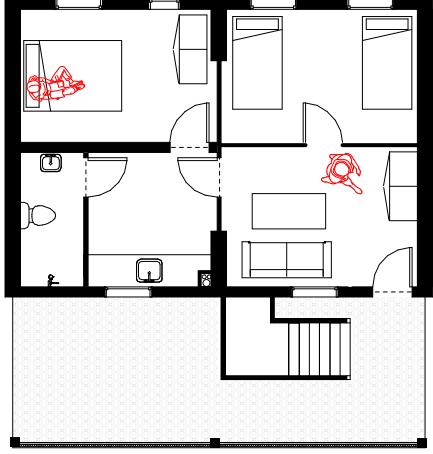
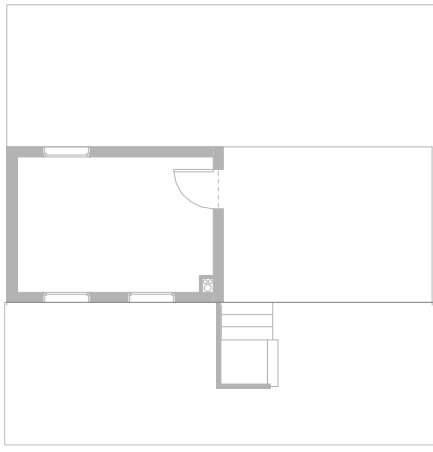
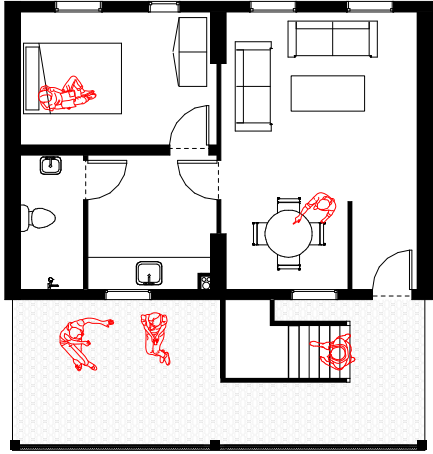
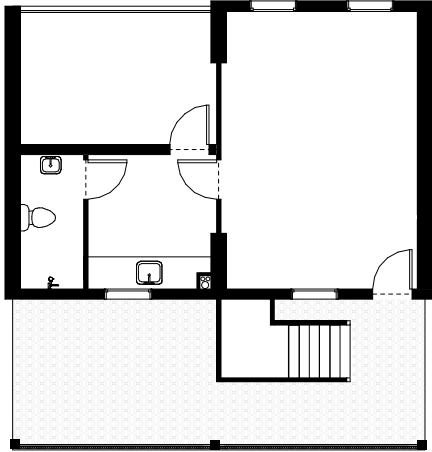
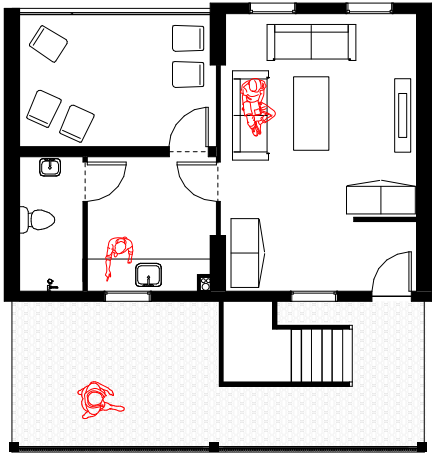
33 m2 + 11 m2



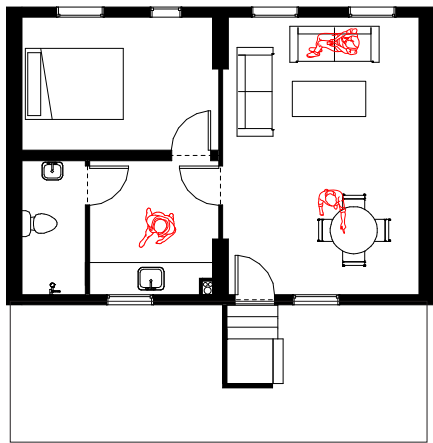
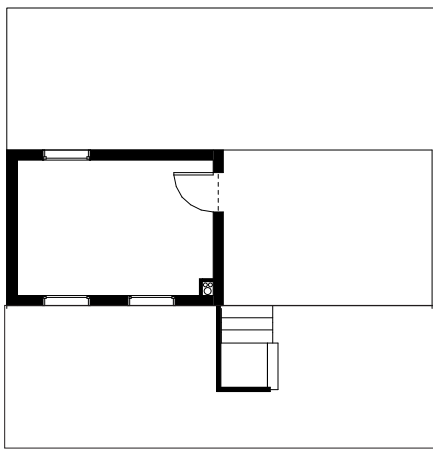
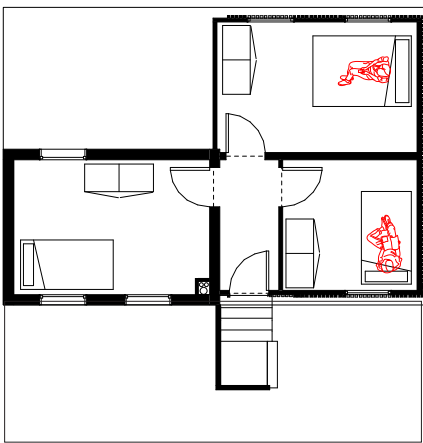
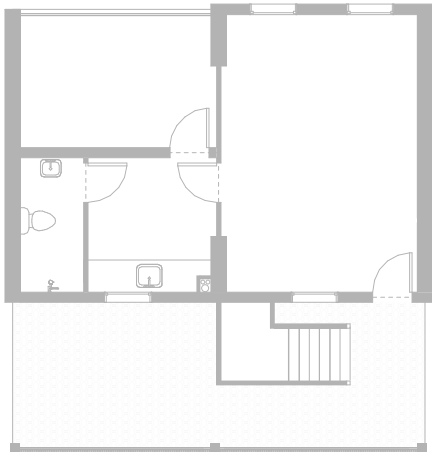
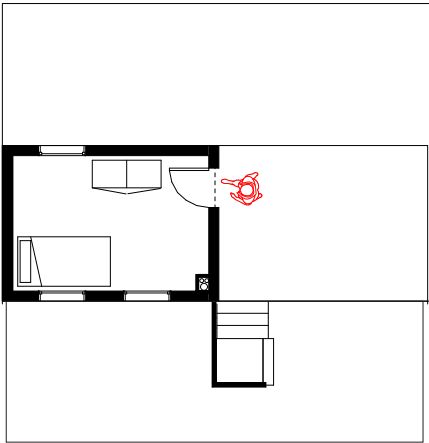
11m2 + 33m2

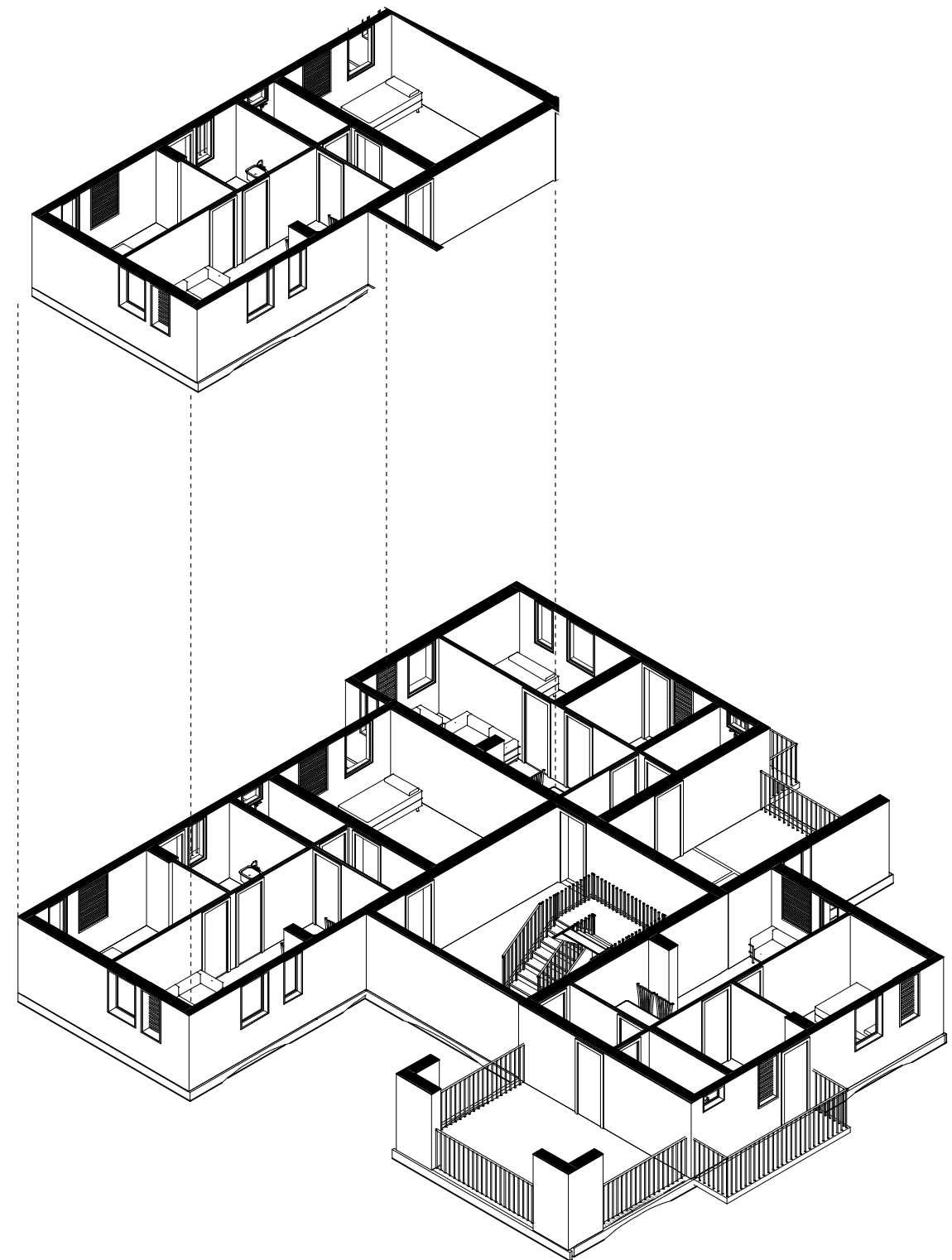
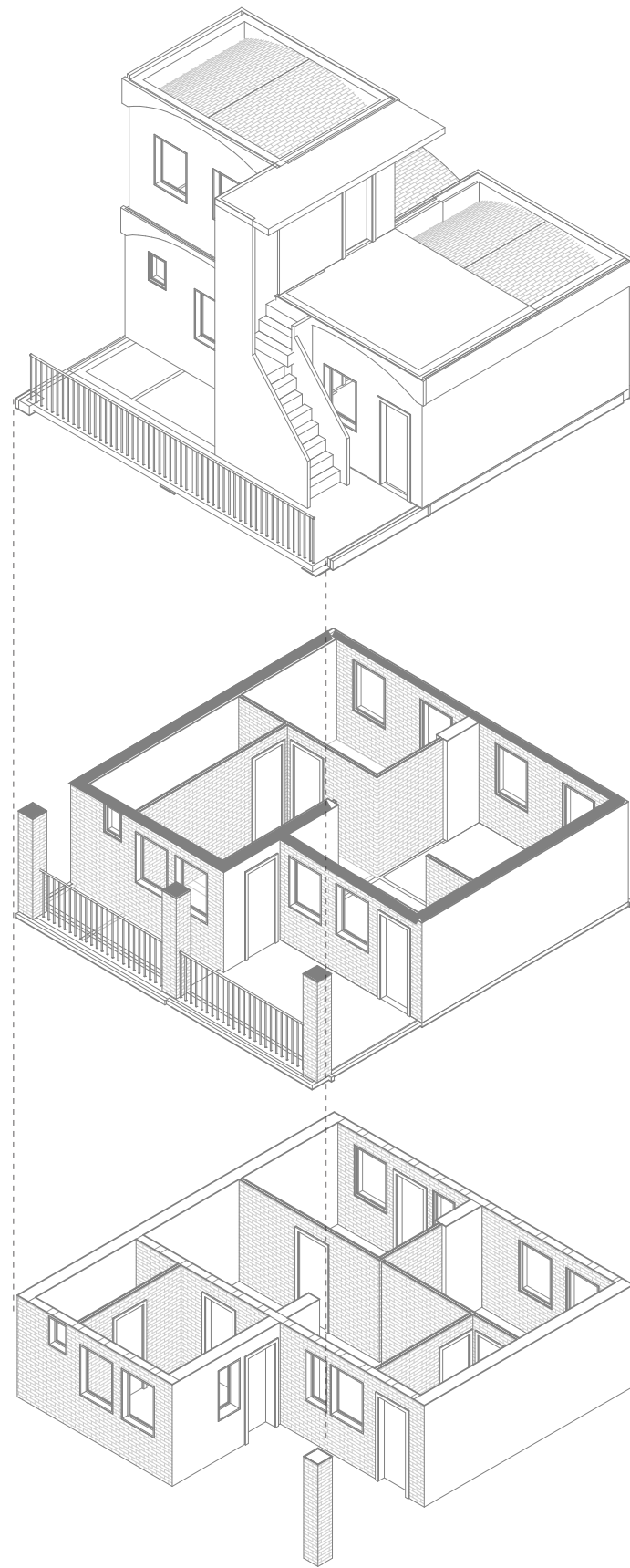


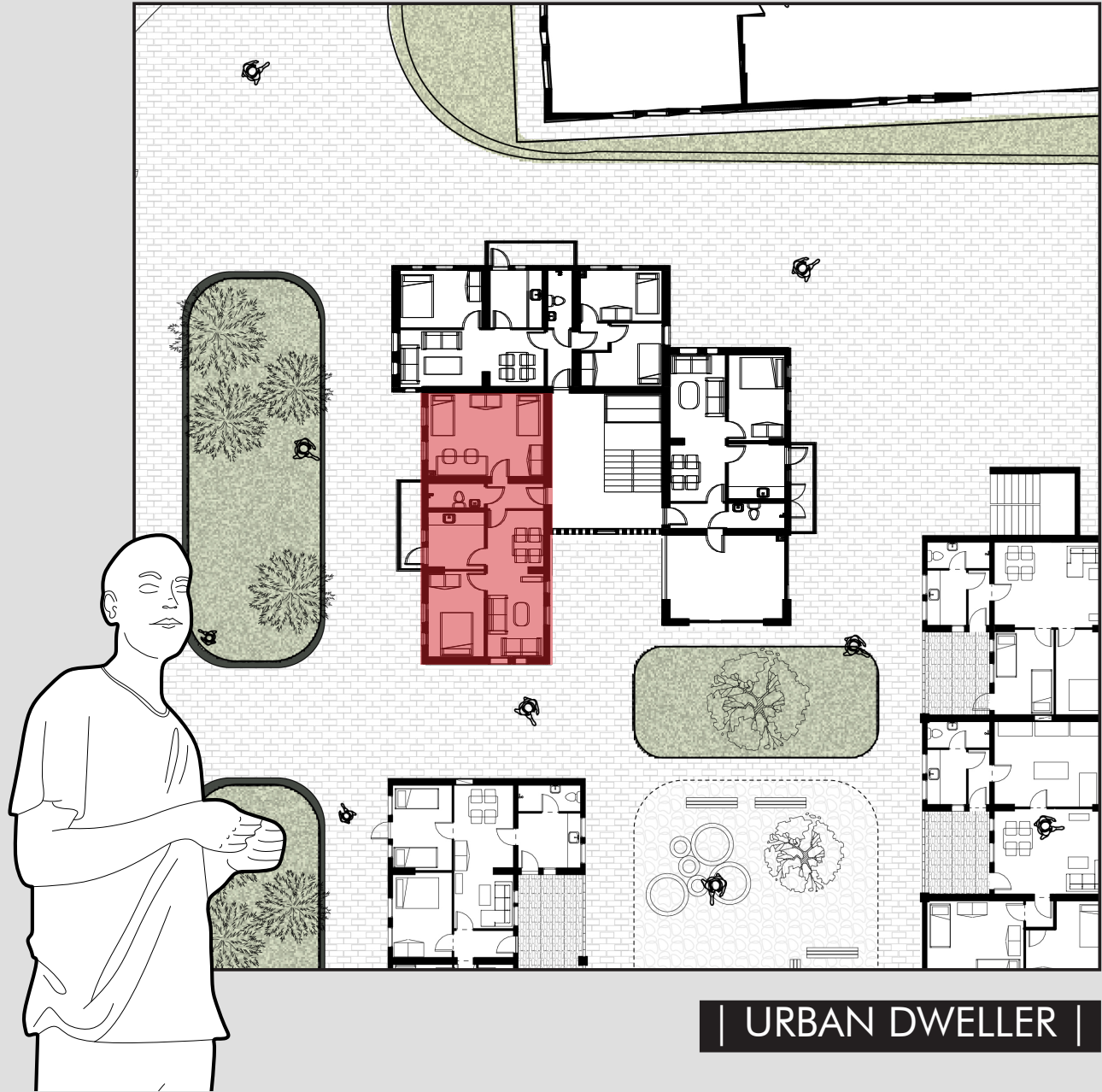
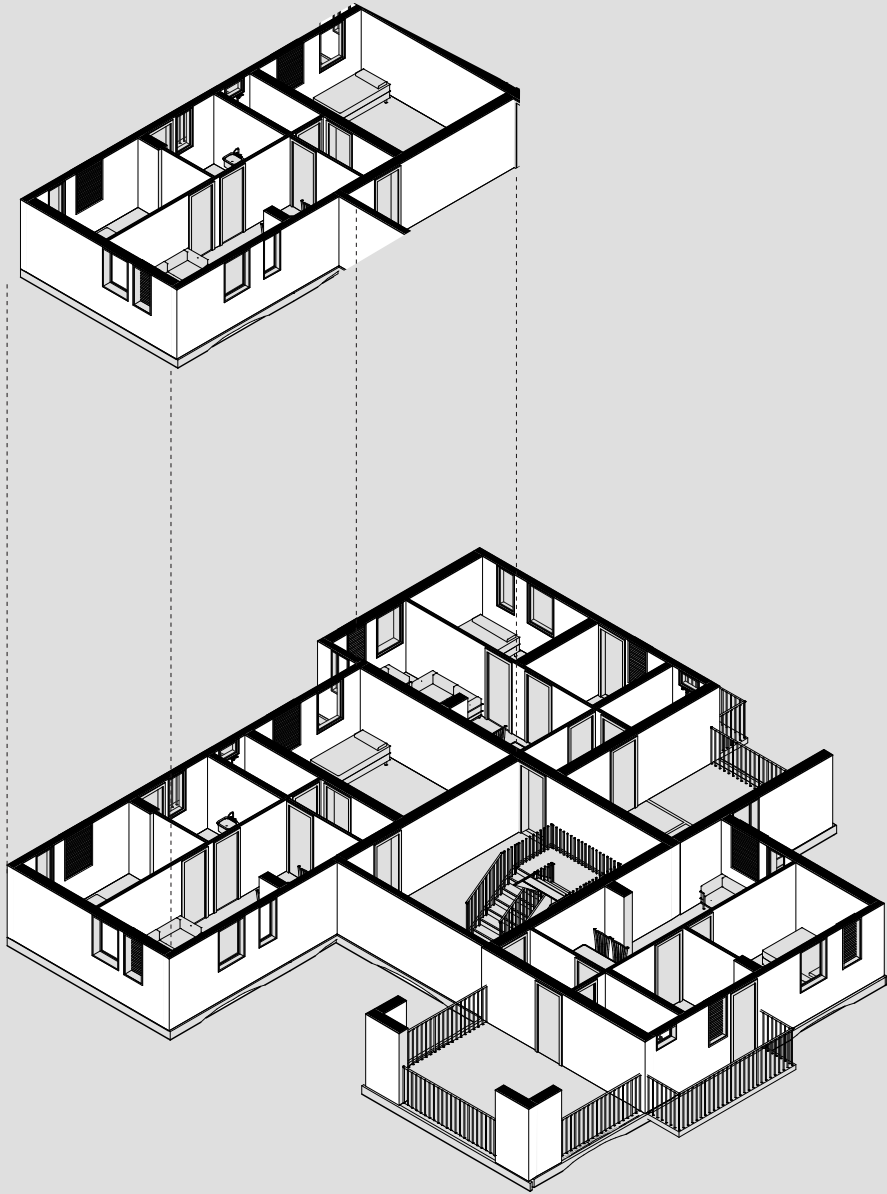
| ARCHITECTURE - top floors - duplex incremental apartments |



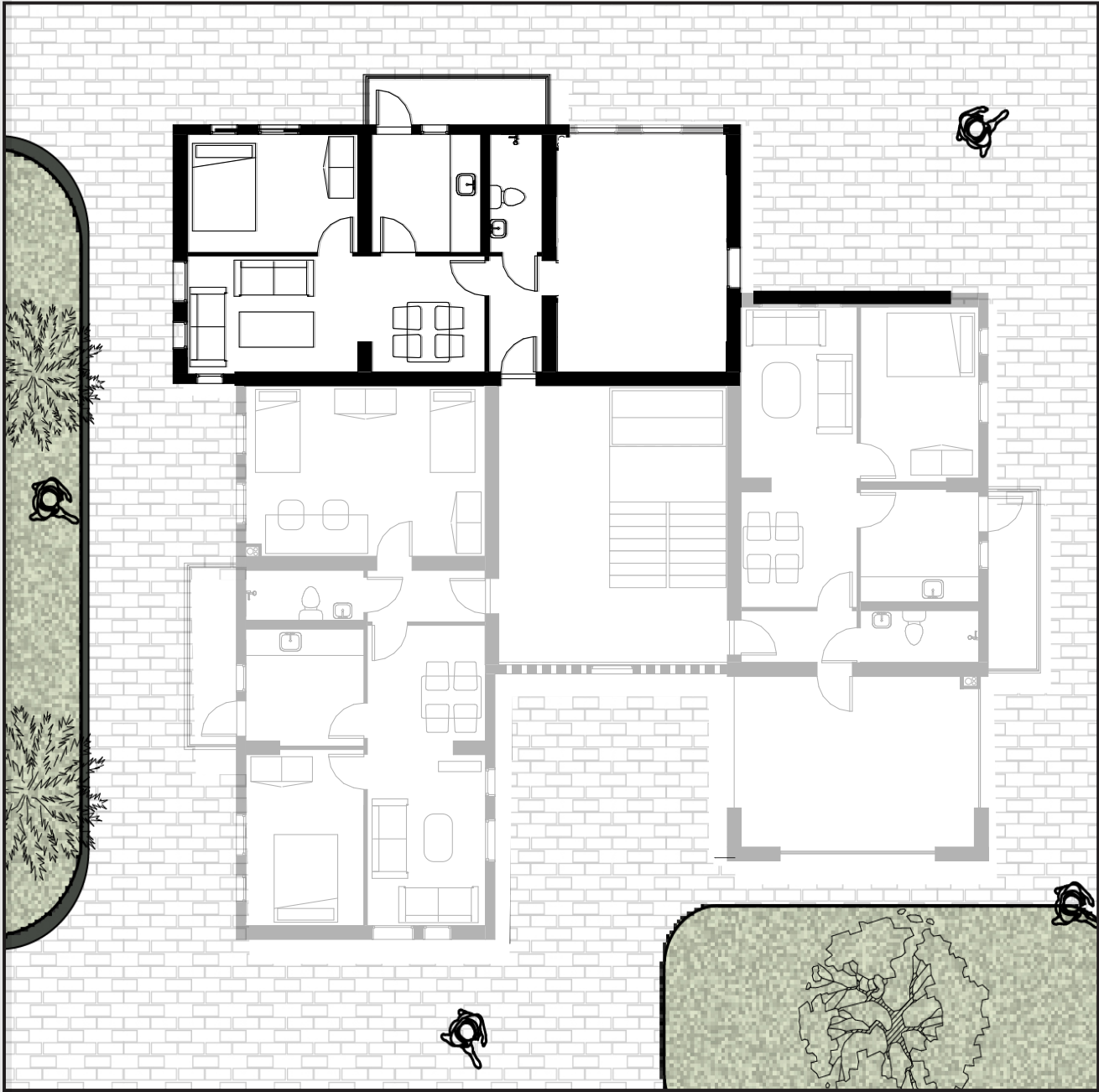
| ARCHITECTURE - top floors - duplex incremental apartments |





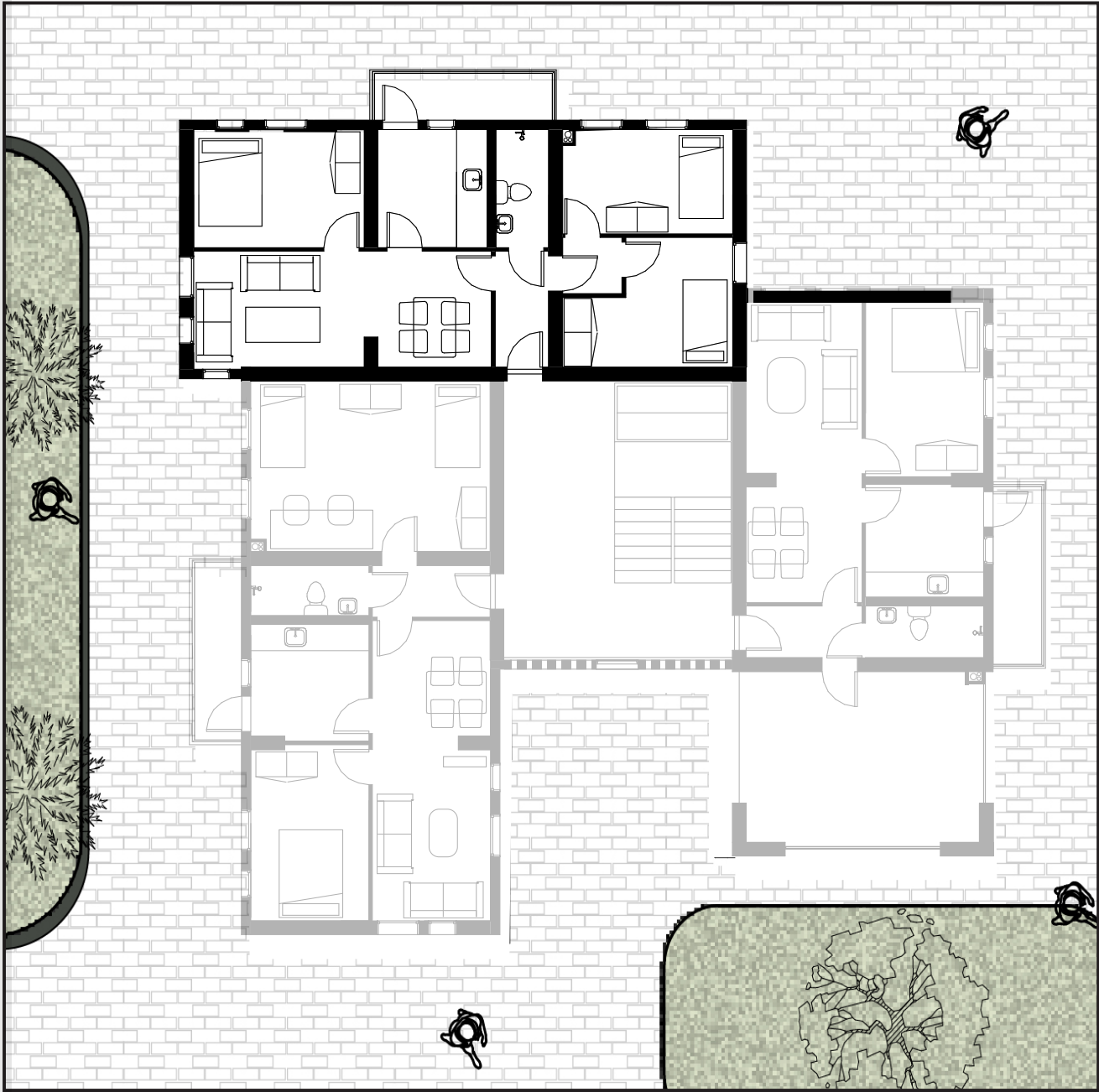


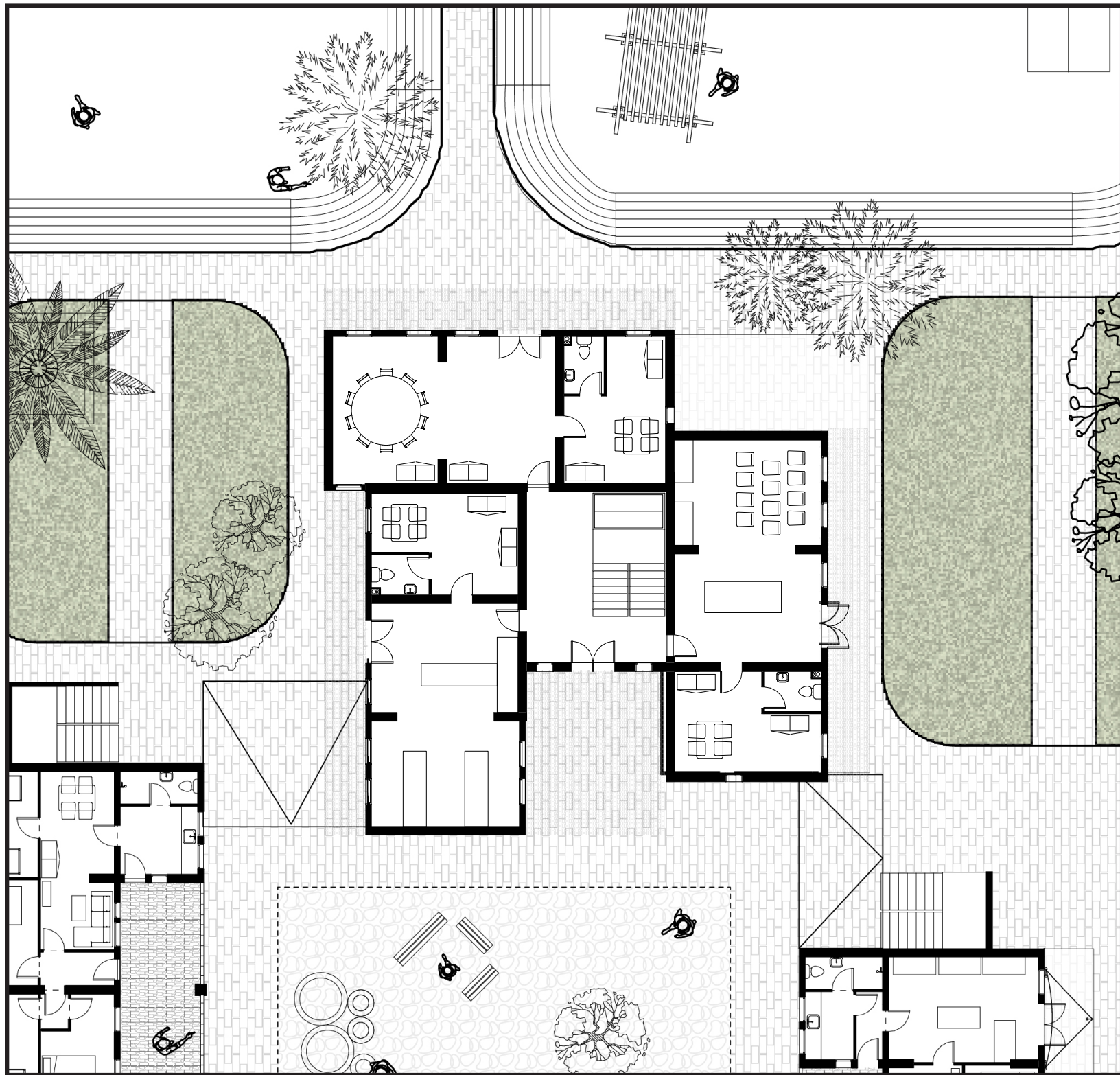
| URBAN DWELLER |



There is no front and back side.



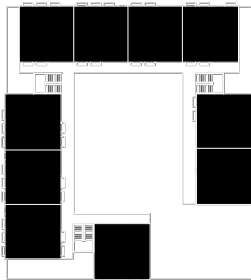




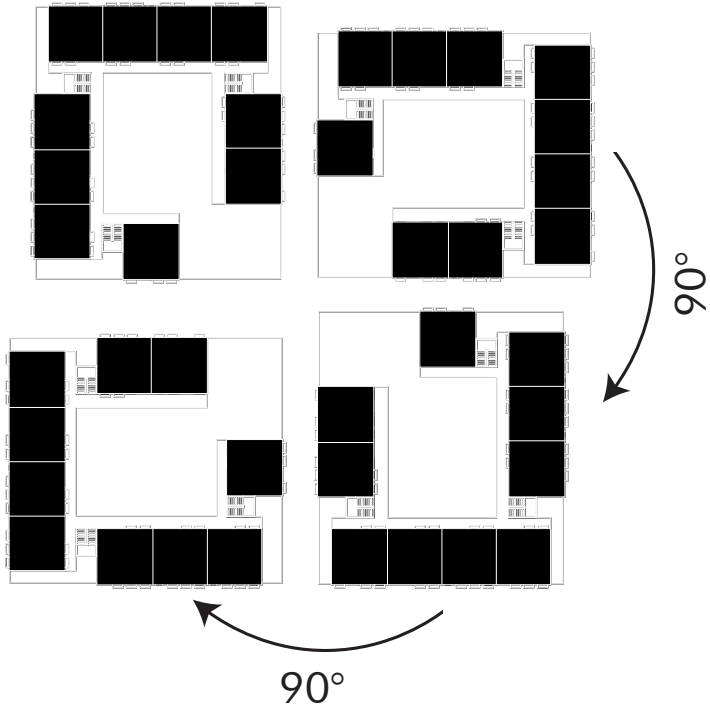
Unit

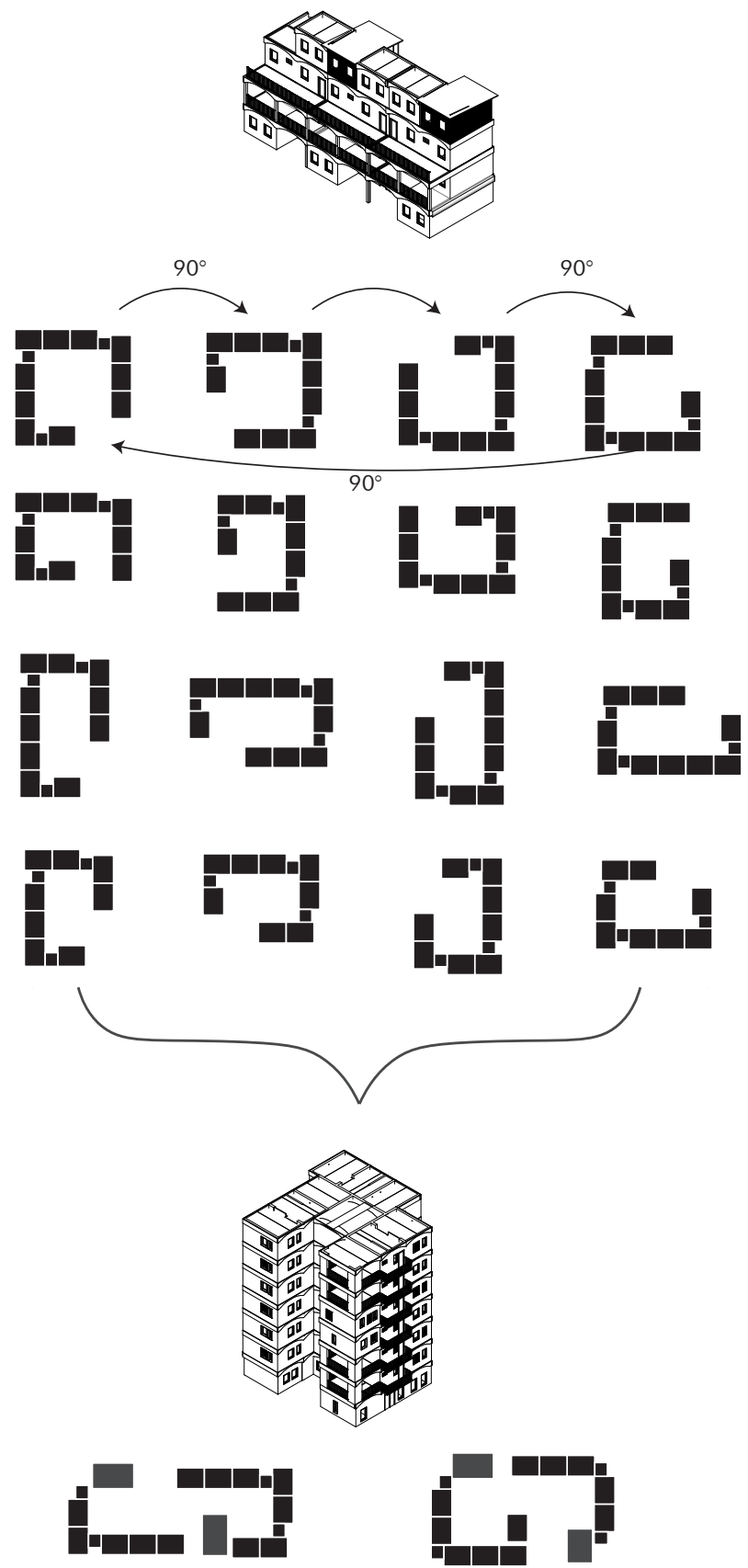


Cluster-complex

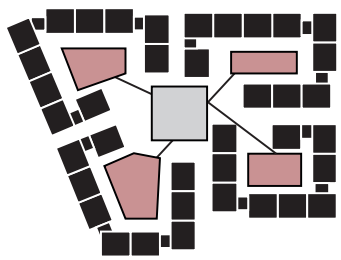
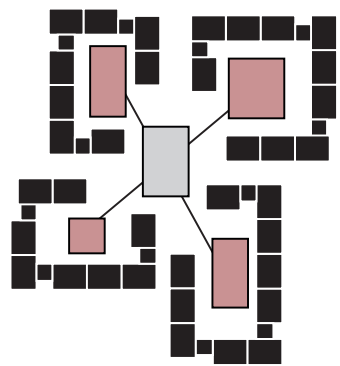
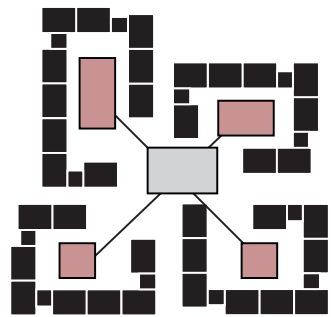


Cluster-configuration



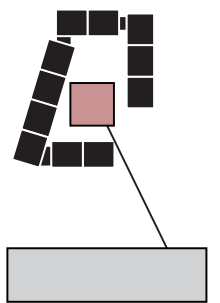
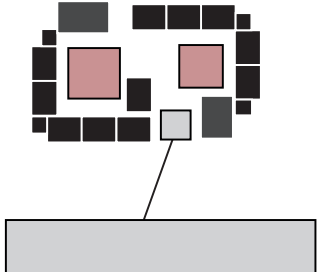
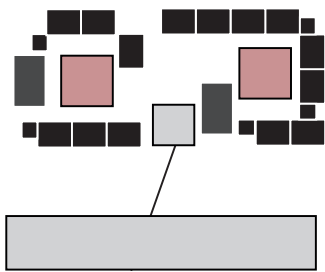


CONFIGURATION 4 CLUSTER

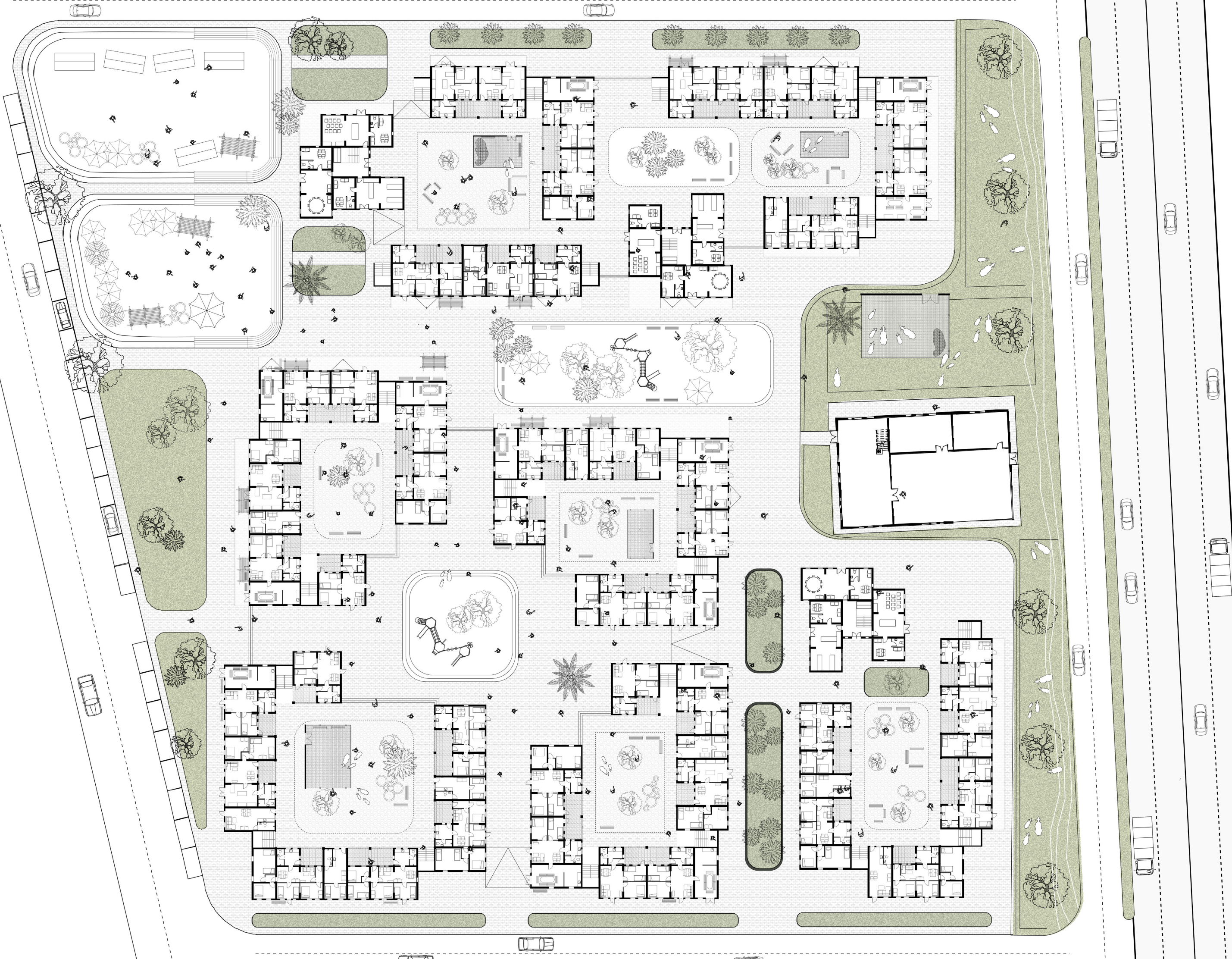


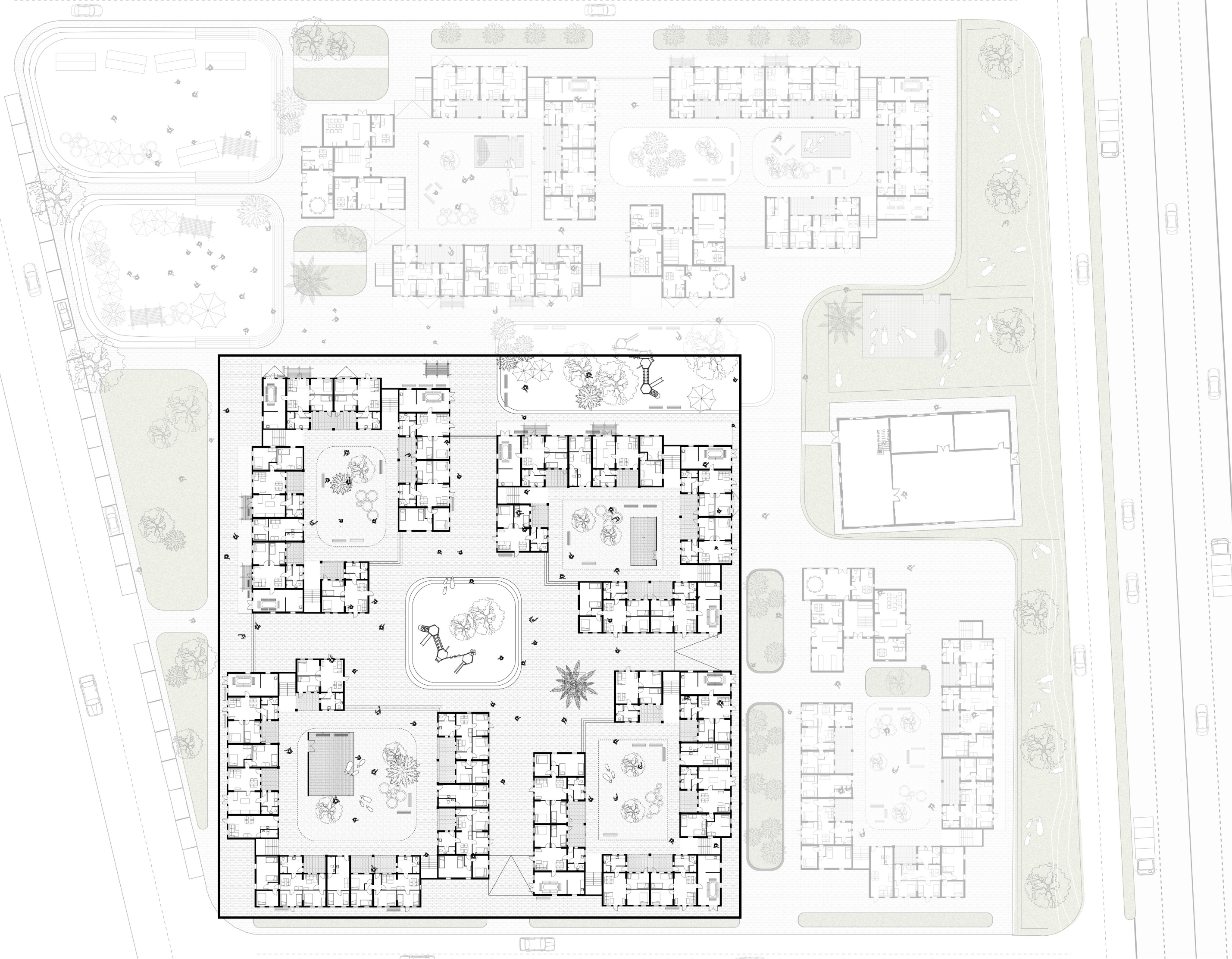
EXCEPTIONS

CONFIGURATION 2 CLUSTER



EXCEPTIONS







| HIERARCHY OF SPACE |

DWELLING

COURTYARD

COLLECTIVE COMMUNAL SPACE

PUBLIC COMMUNAL SPACE

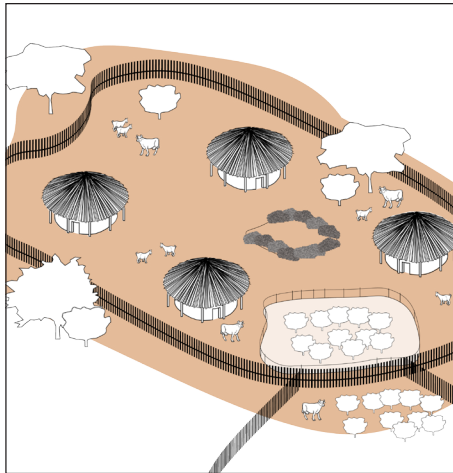
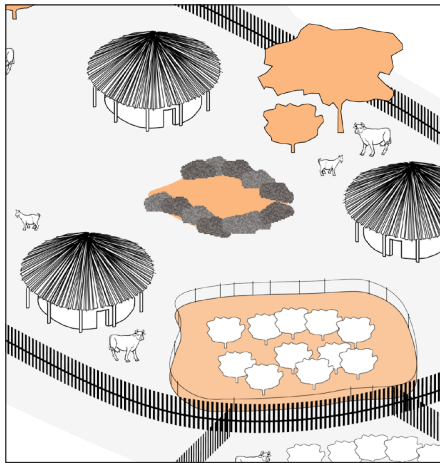
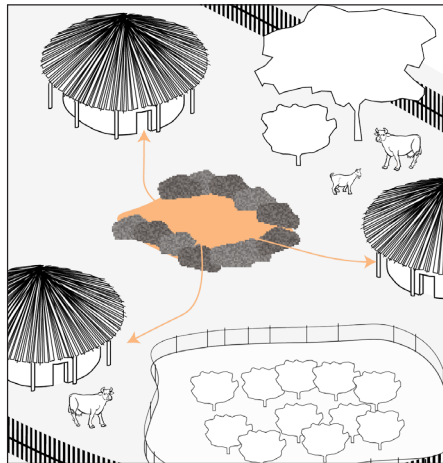
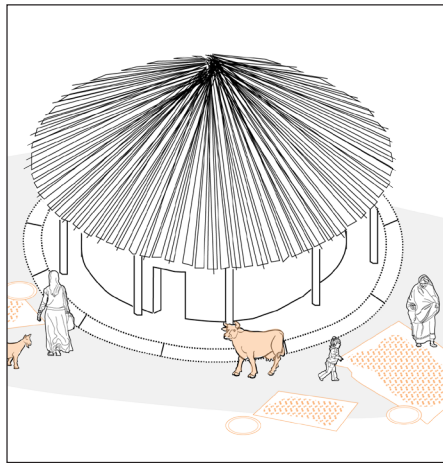
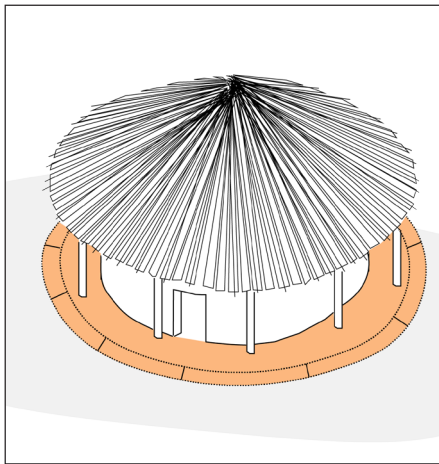
(scale of the neighborhood)

PUBLIC COMMUNAL SPACE

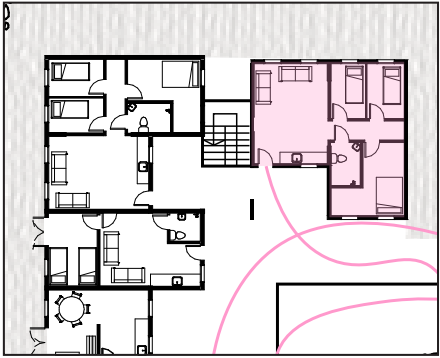
(scale of collective public activity)

PRIVATE

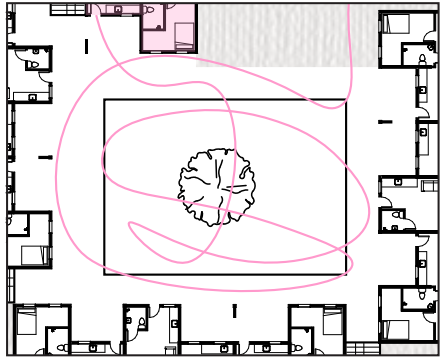
PUBLIC



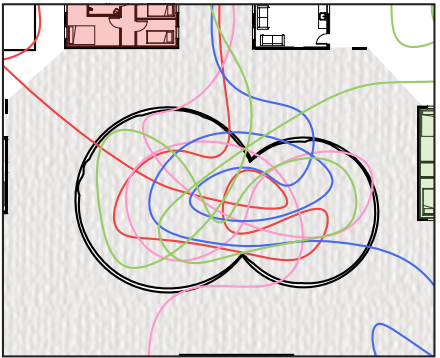
| HIERARCHY OF SPACE - private to public |



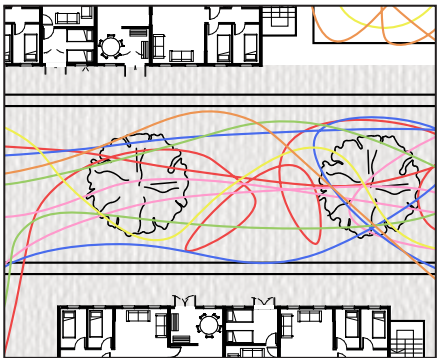
dwelling



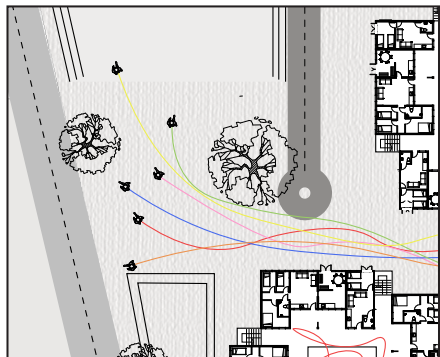
courtyard



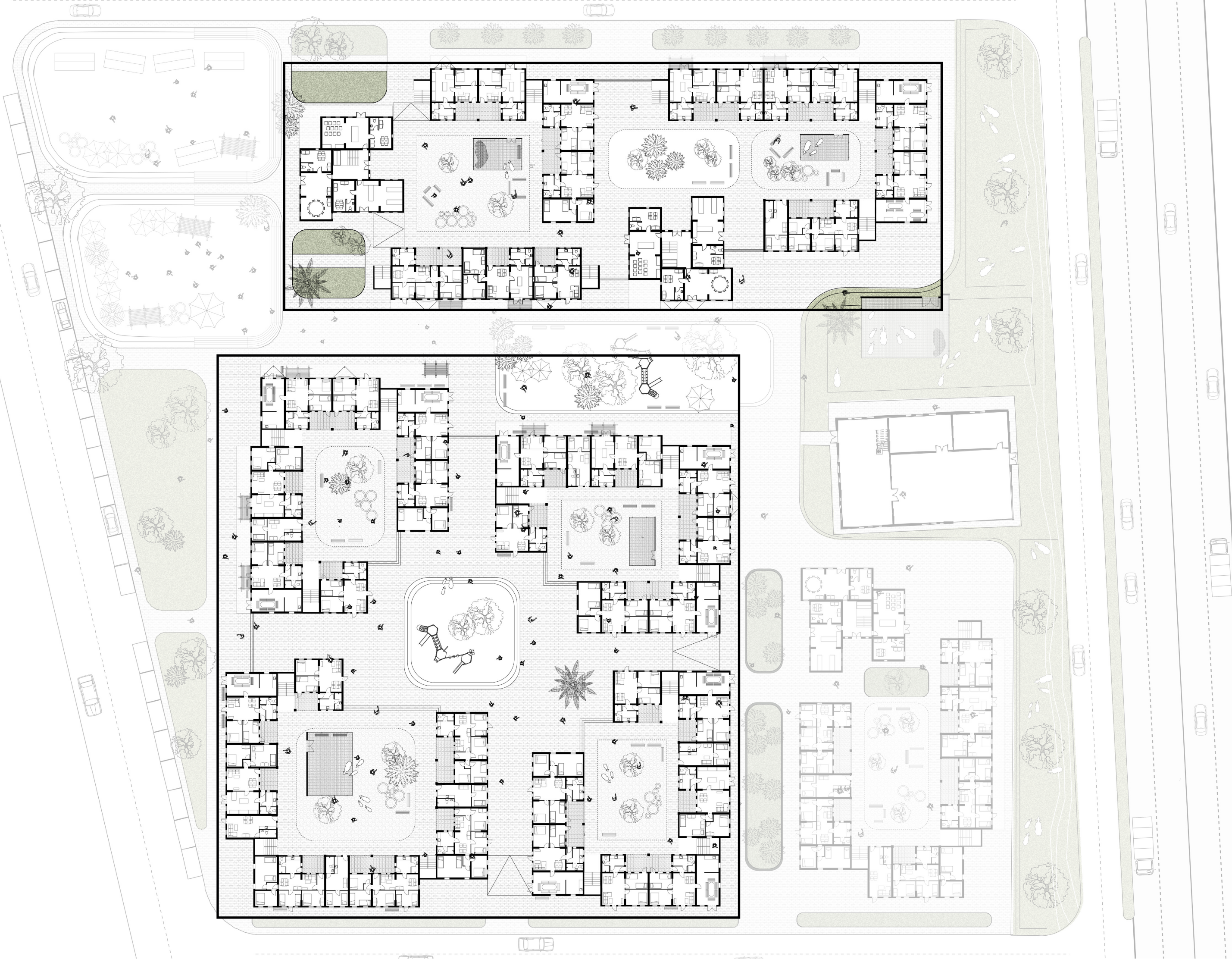
communal space

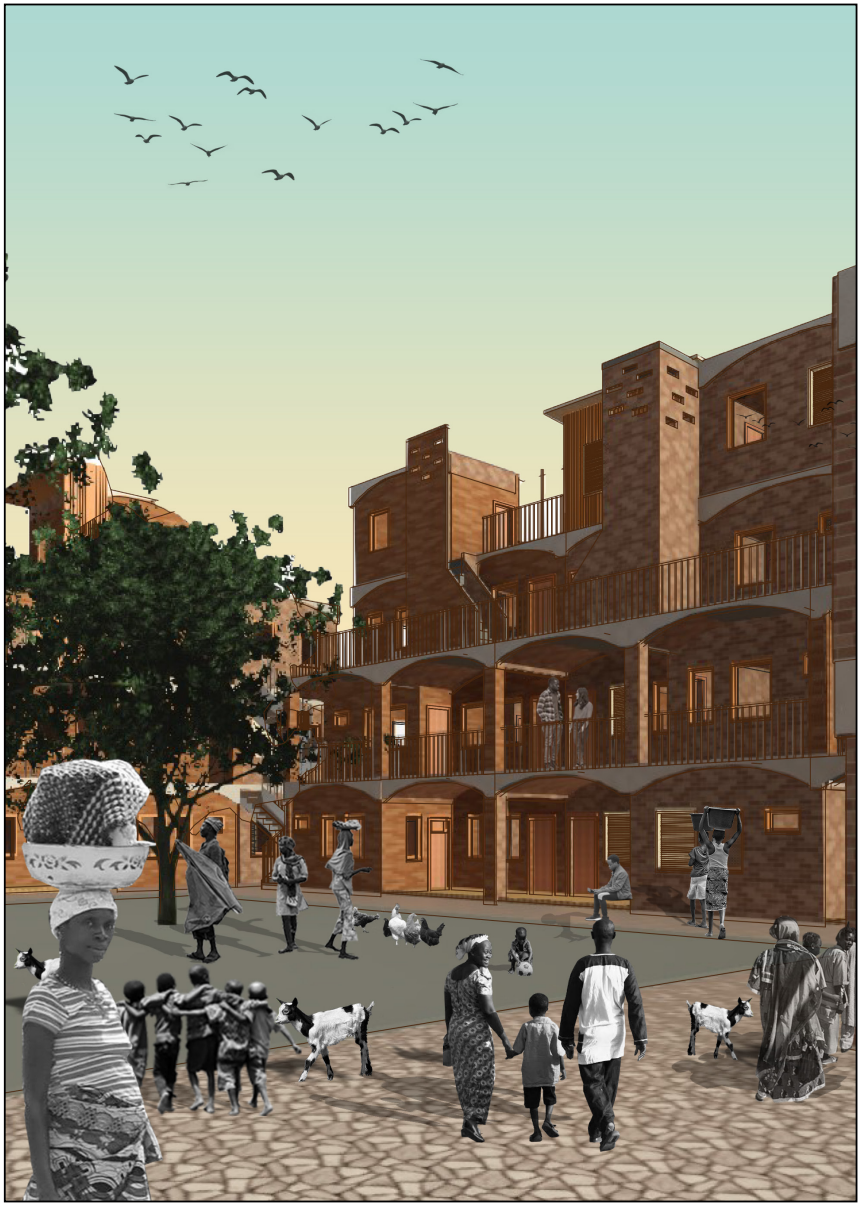
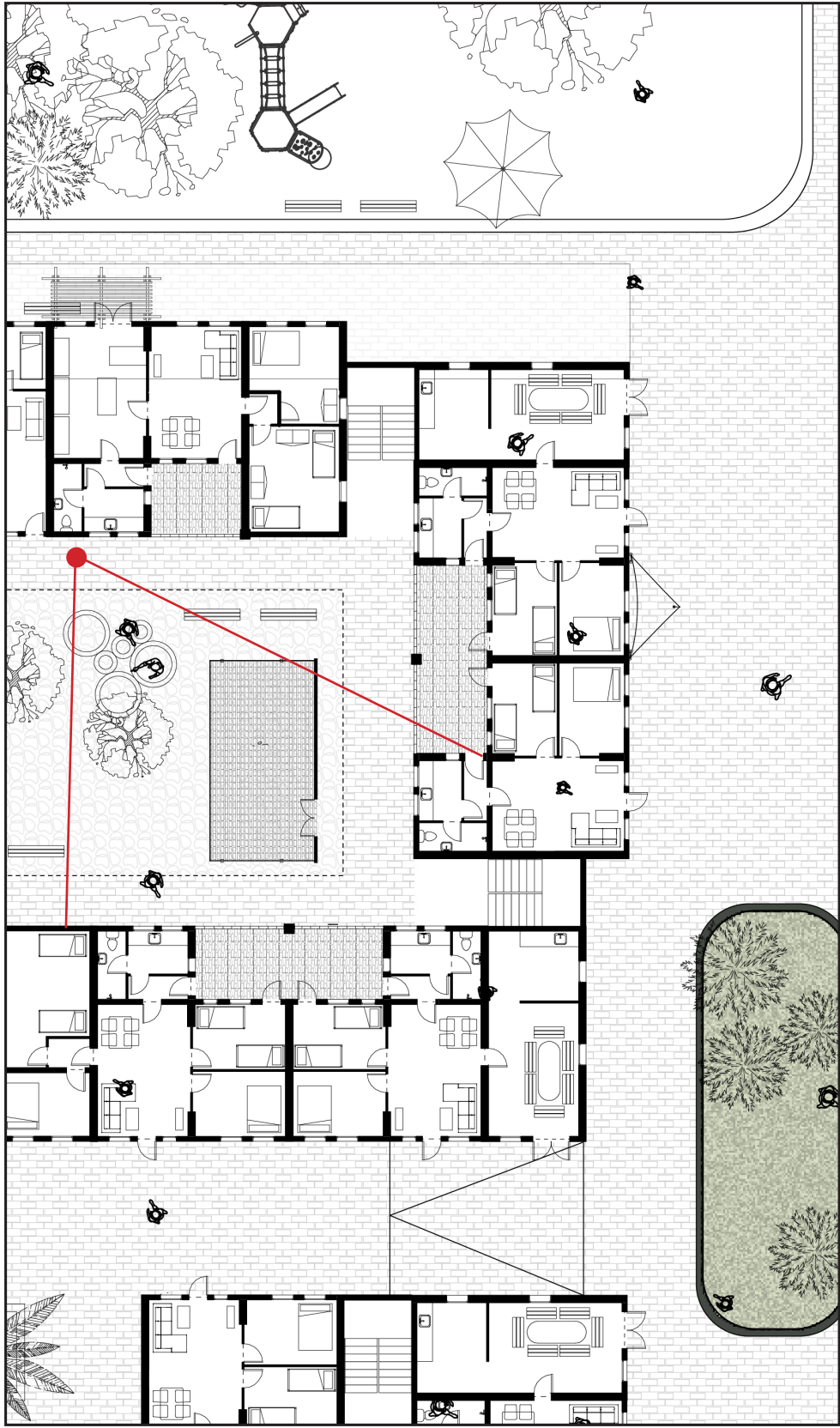


collective communal

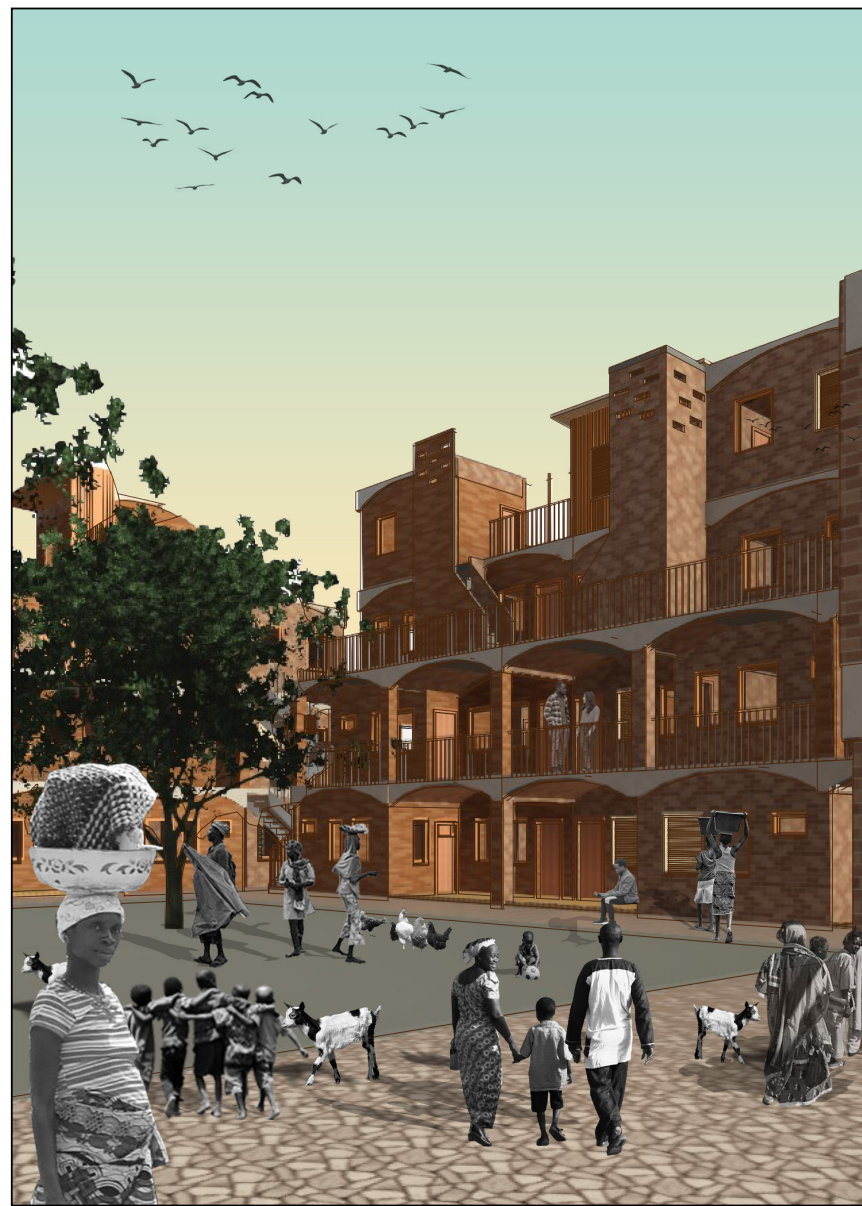
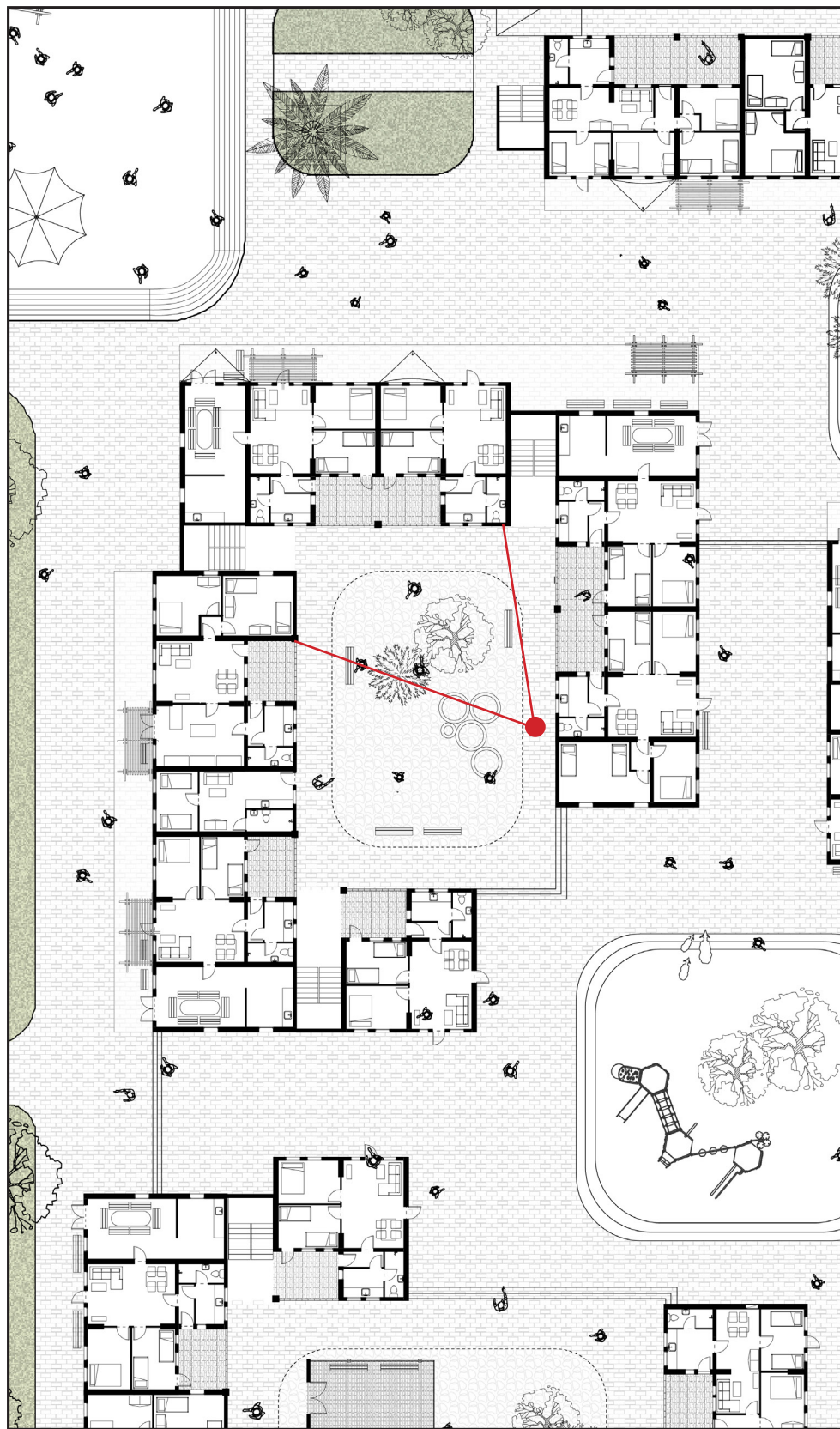


market space

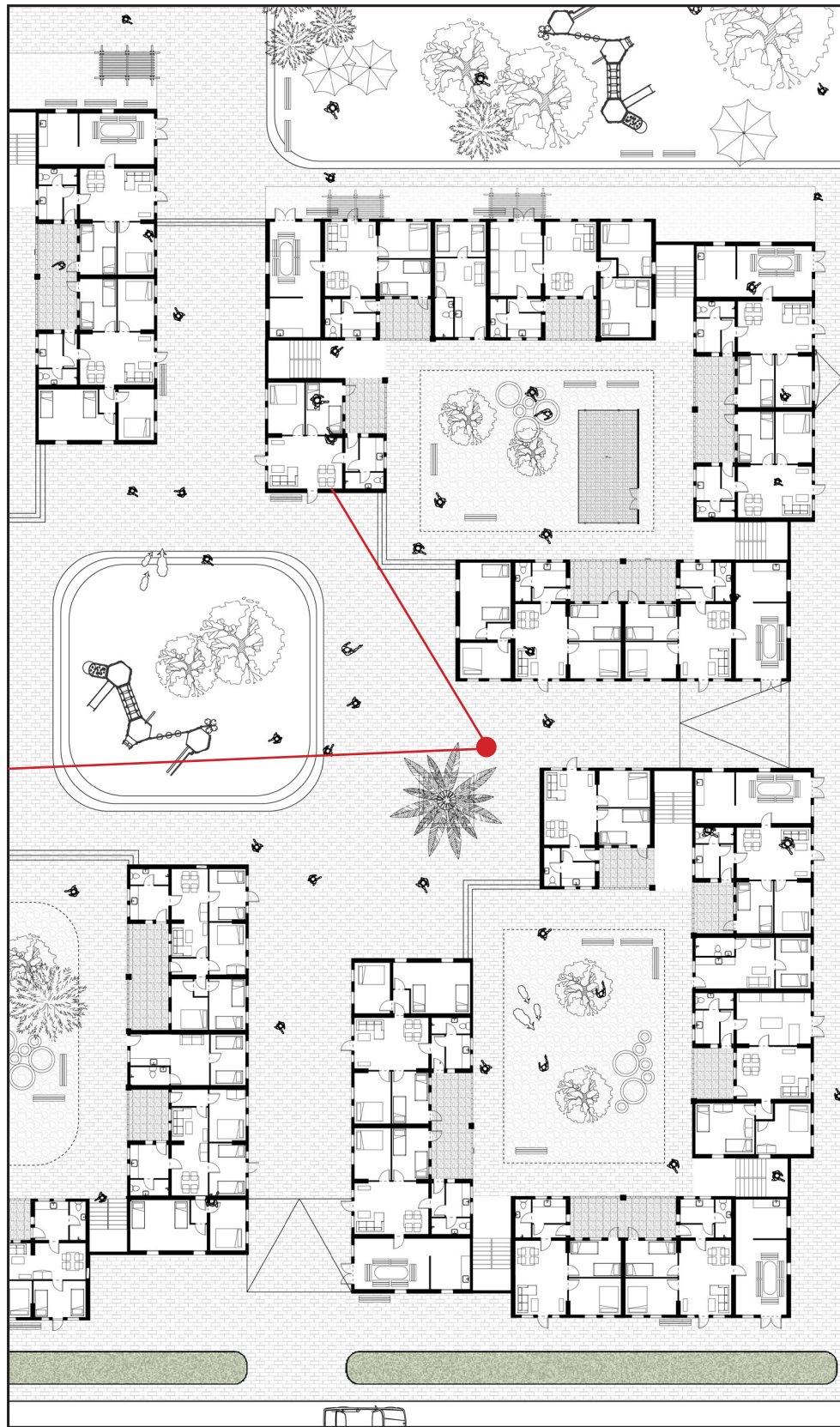




The connection with the ground floor can be recognized with the sometimes shared patio.



However other domestic or working activities also take place, connecting the patio with the courtyard.



The communal spaces have a both a recreational and climate sustainable function.

| COLLECTIVE PUBLIC SPACE |

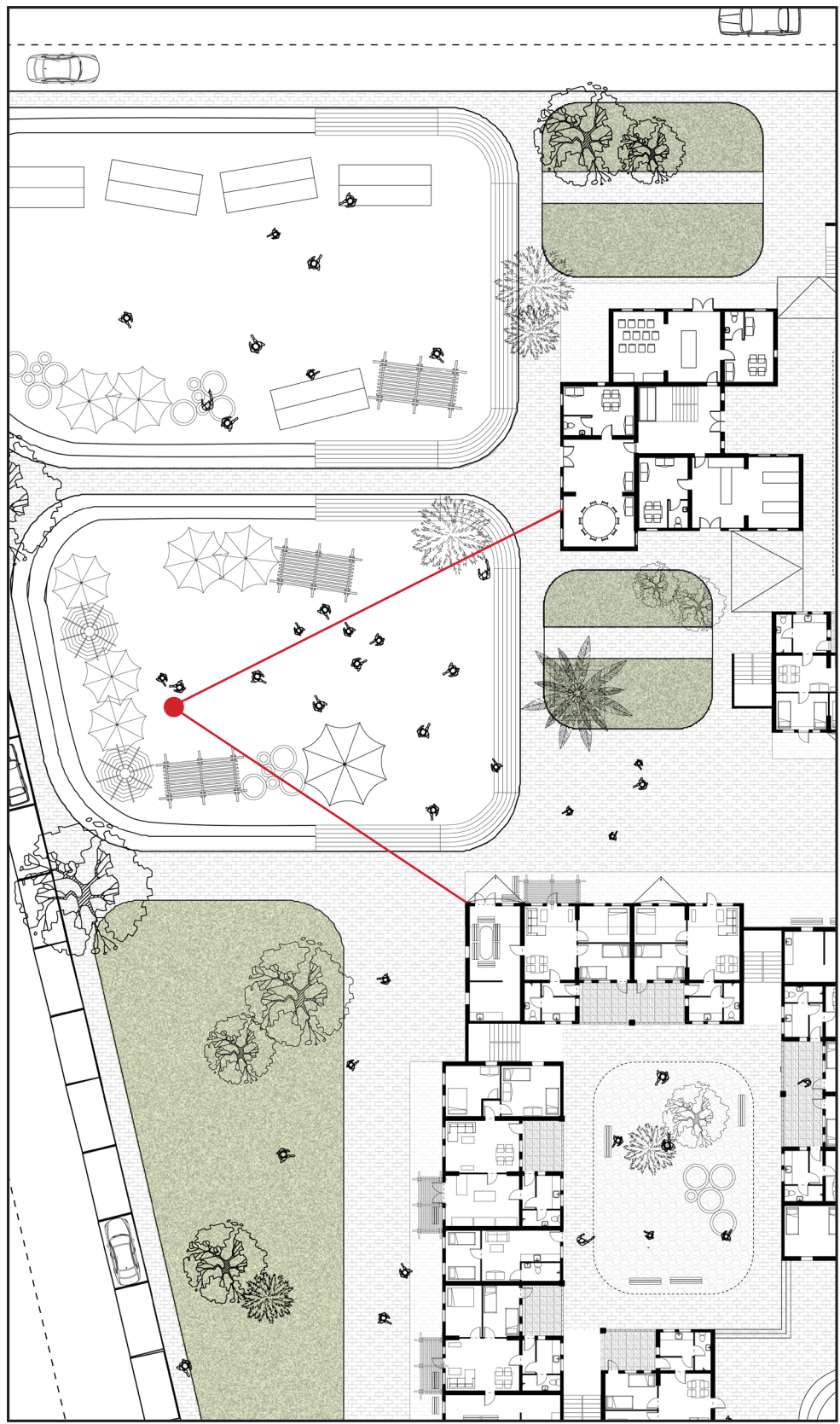
(scale of the neighborhood)



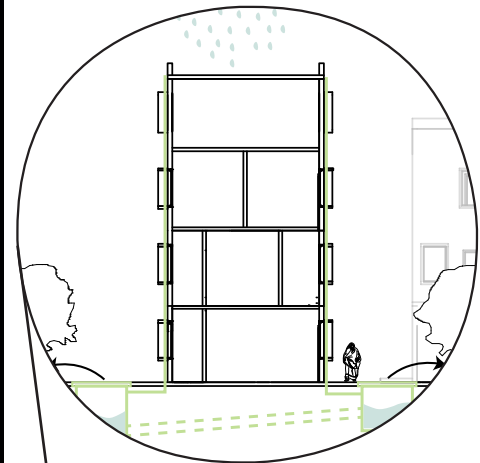
The public space shared with the neighborhood is recreational, however the stores on the ground level face this side of the public space, activating the communal public space.

COLLECTIVE PUBLIC SPACE

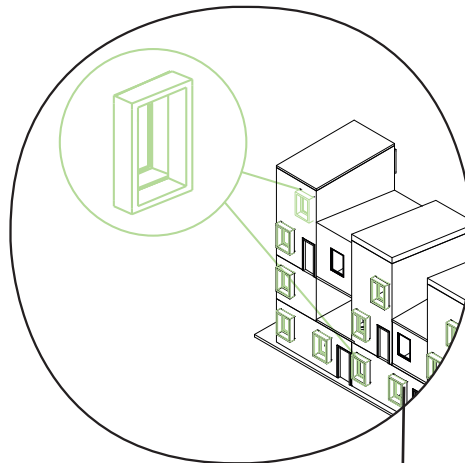
(scale of collective public activity)



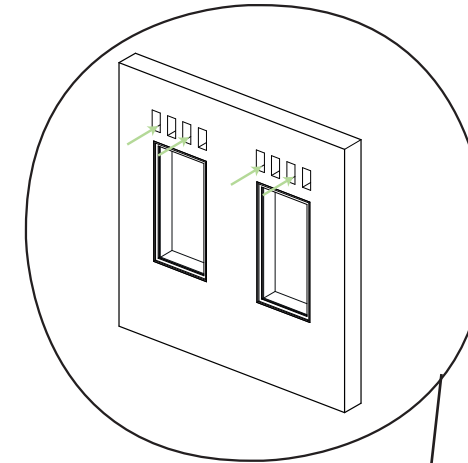
The neighborhoods have different shared public amenities, like a church or health center. In this case there is an square which can turn into a place for events like an open-air market.



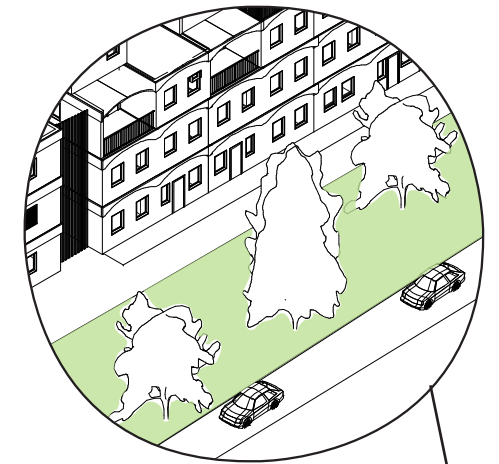
Drainage strategy:
Re-use of
collected (rain)water



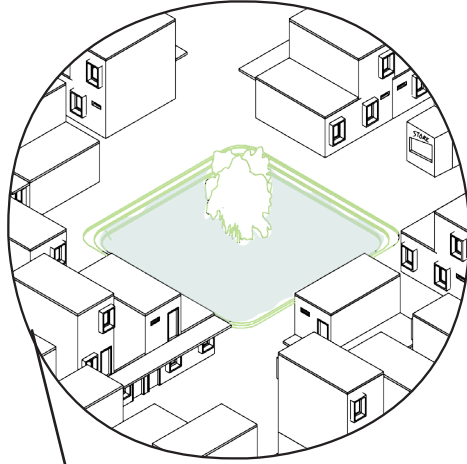
Sun Protection:
Sunshading
Interior: f.e. Louver
Exterior: overhanging
framework



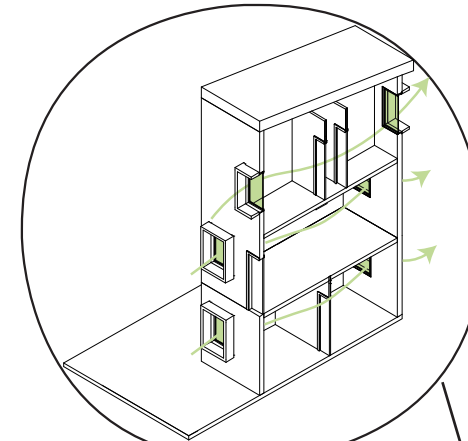
Ventilation blocks



Noise control



Collecting water in
flooding season



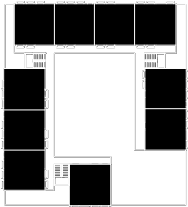
Cross-ventilation



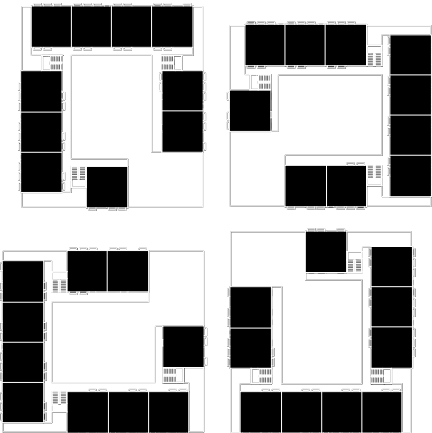
Unit



Cluster-complex

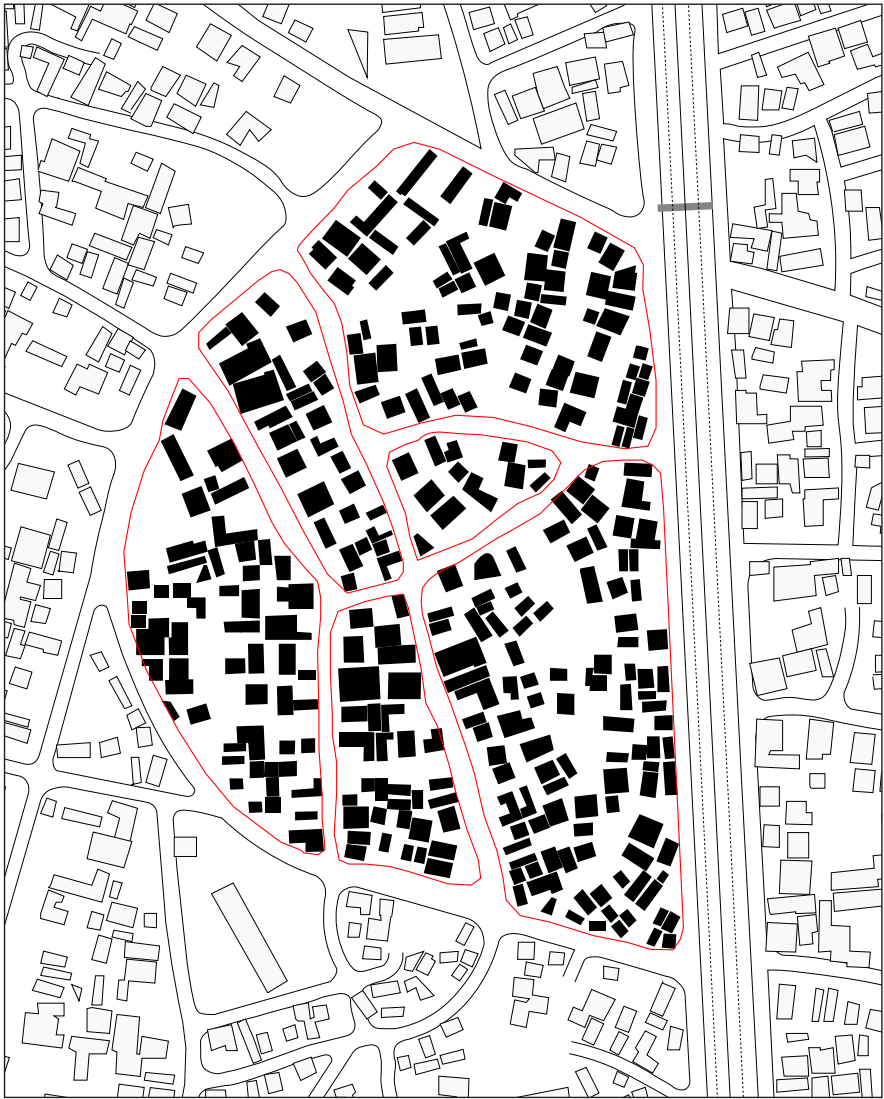


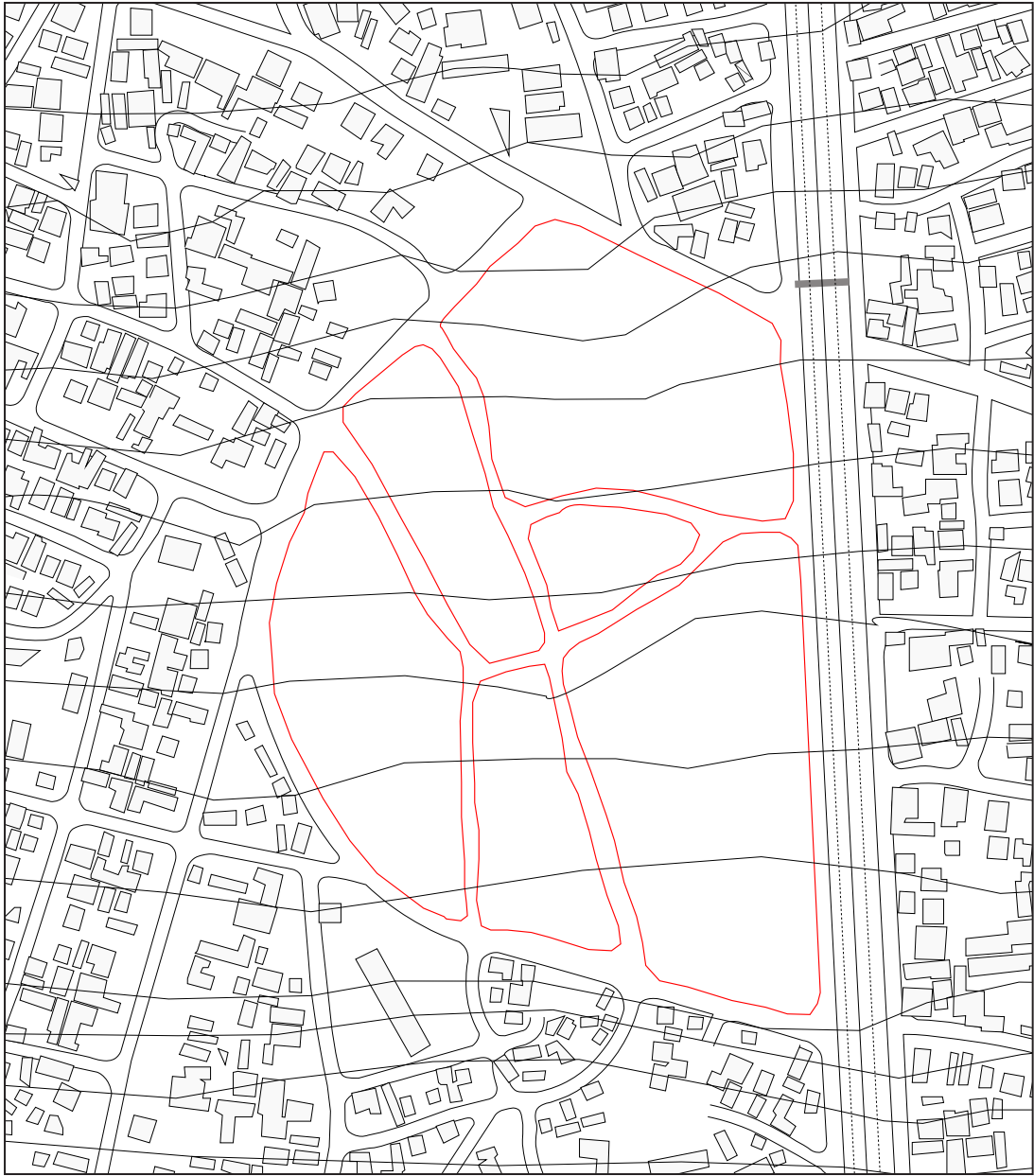
Cluster-configuration



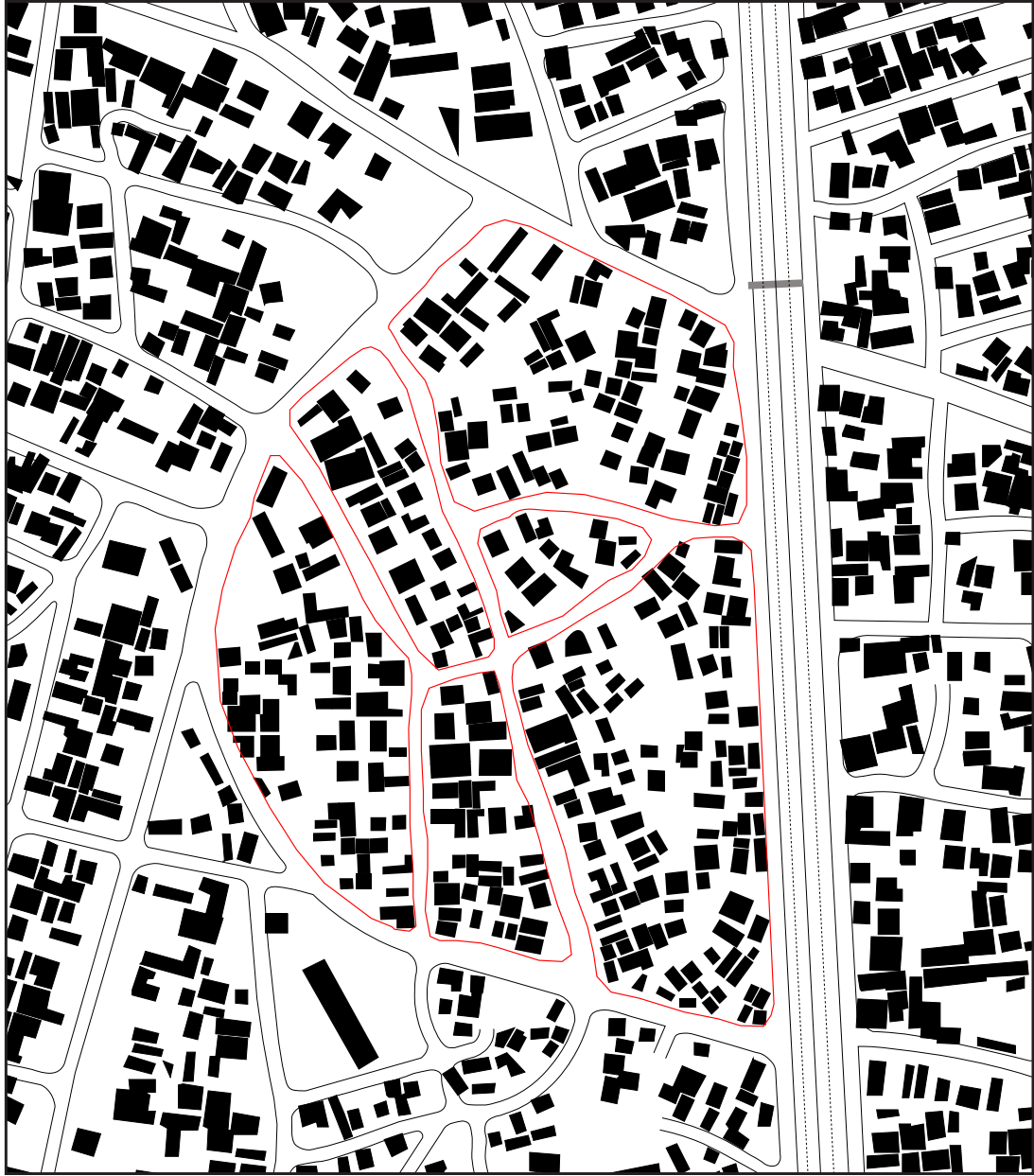
90°

90°

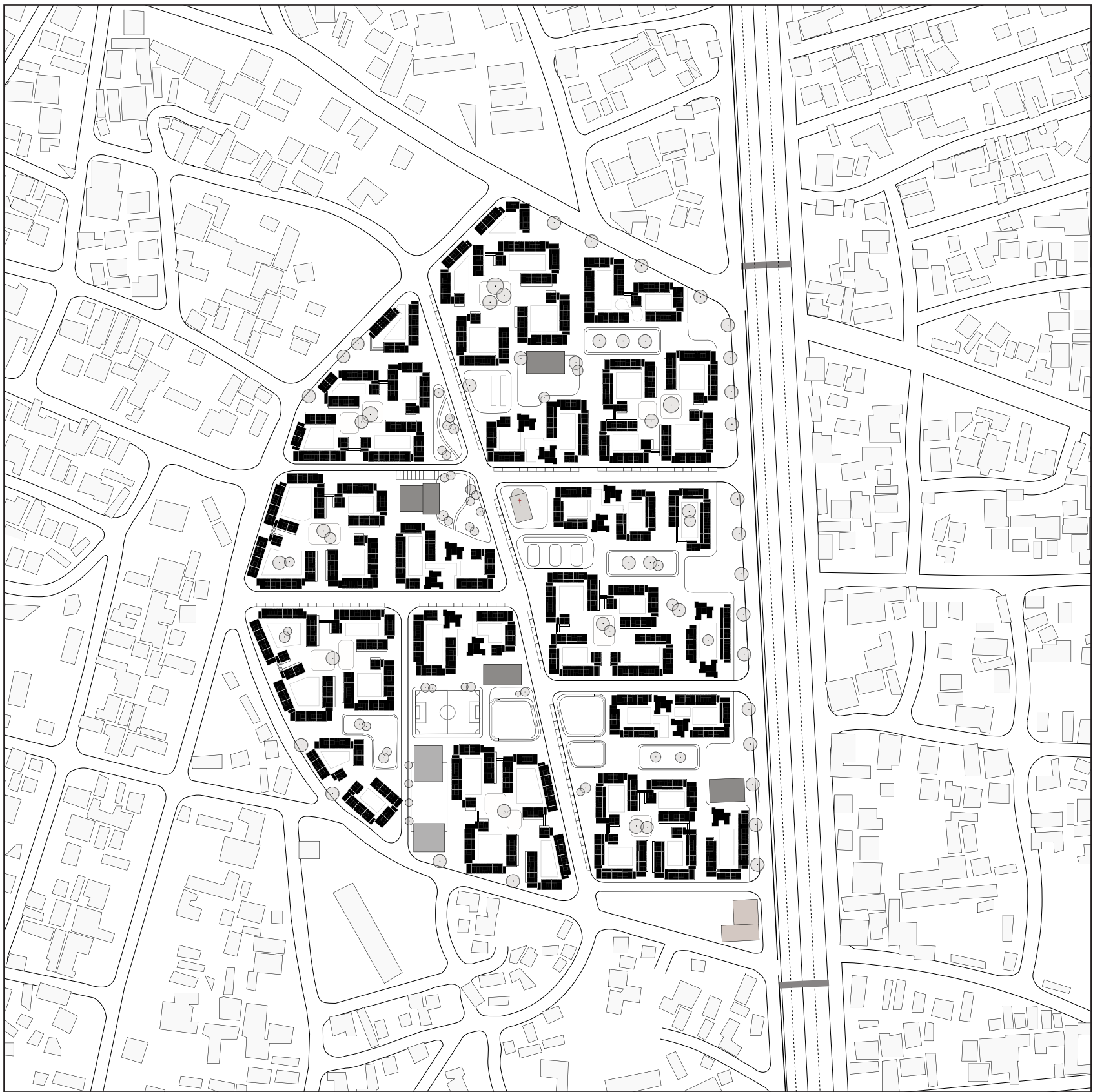


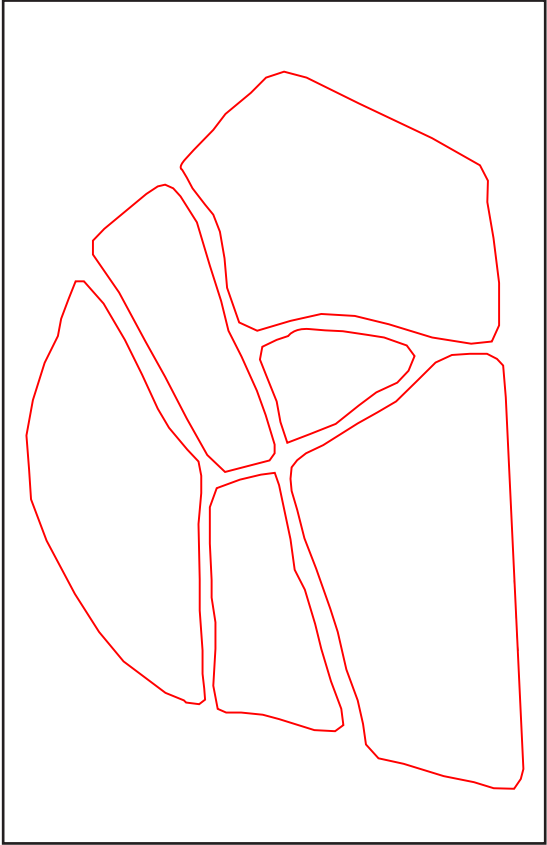


Site Topography - Contour Lines

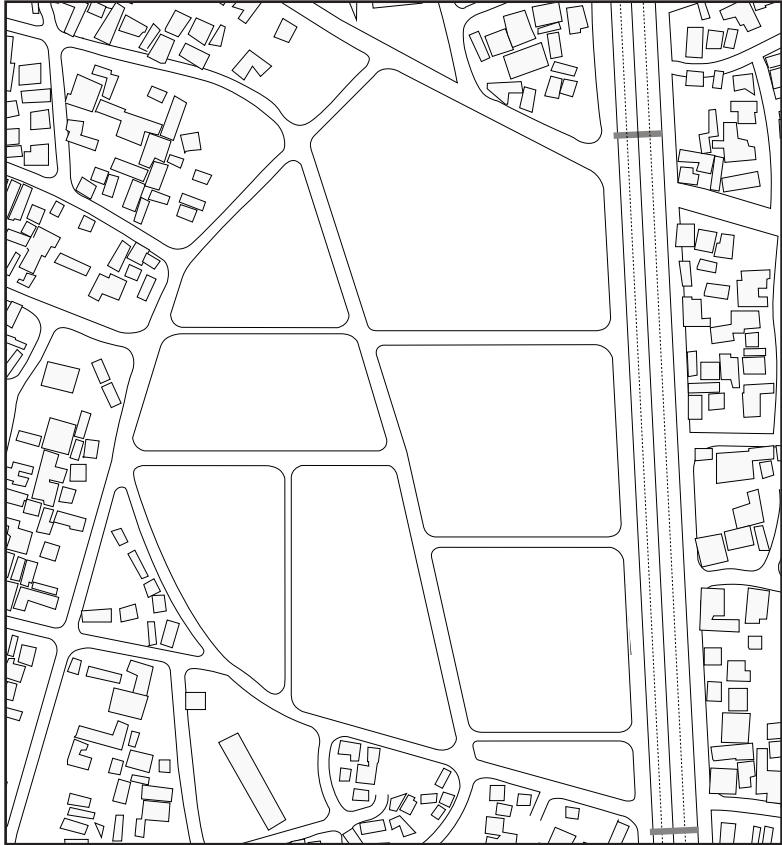


Defining the roads

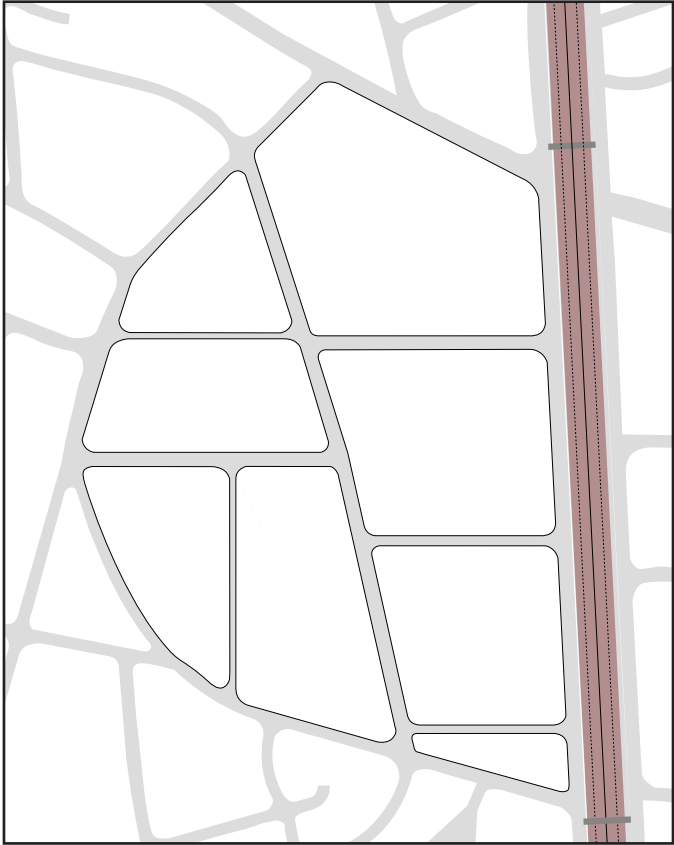




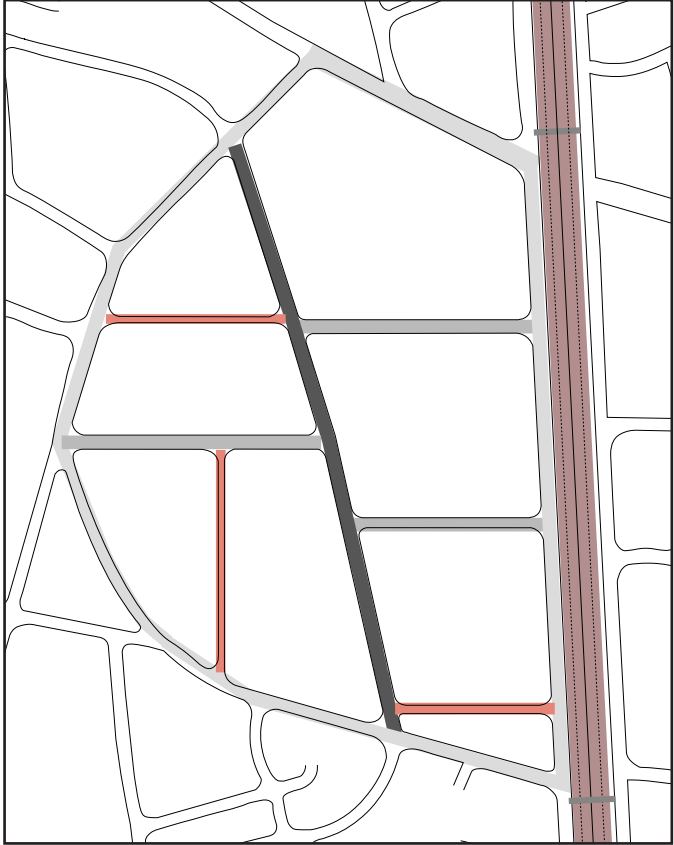
Original Structure



New proposal follows original structure, however improves on accessibility towards the RingRoad

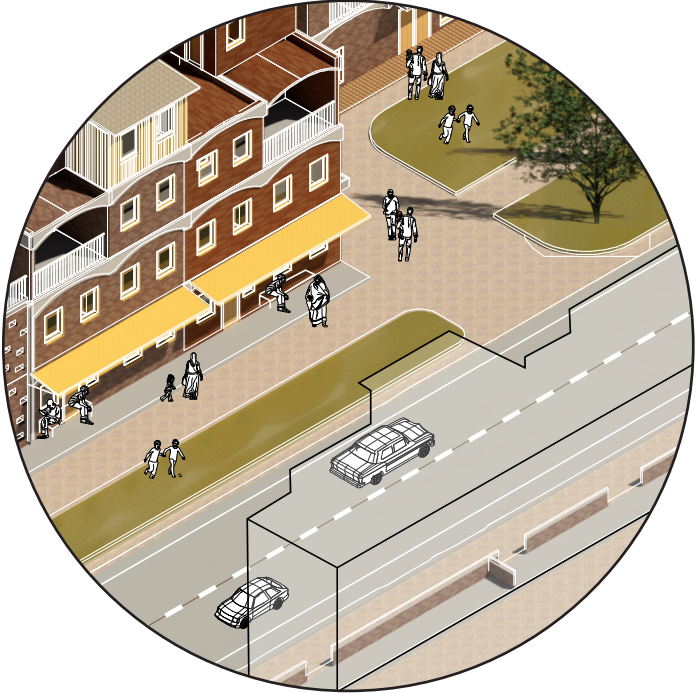


Roads connected to adjacent roads



Hierarchy of Roads - RingRoad, City Road, Activity Axis, Plot roads, Pedestrian Spaces

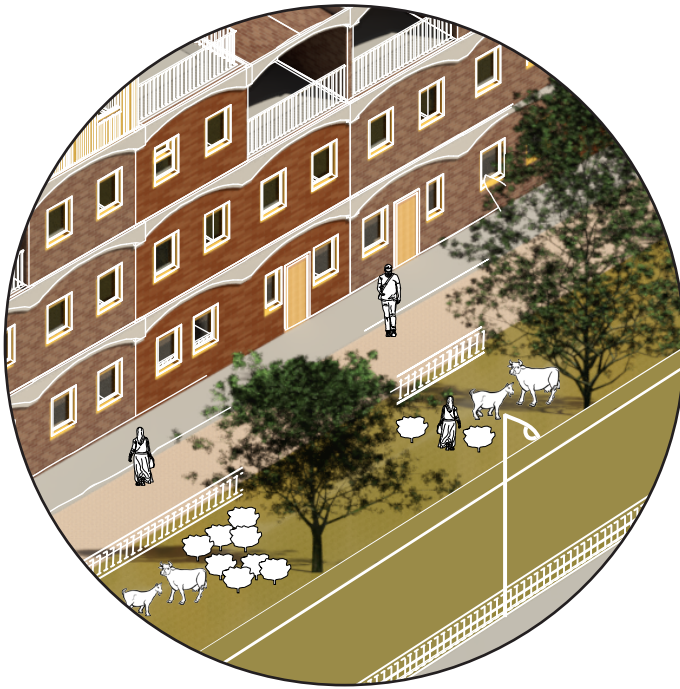
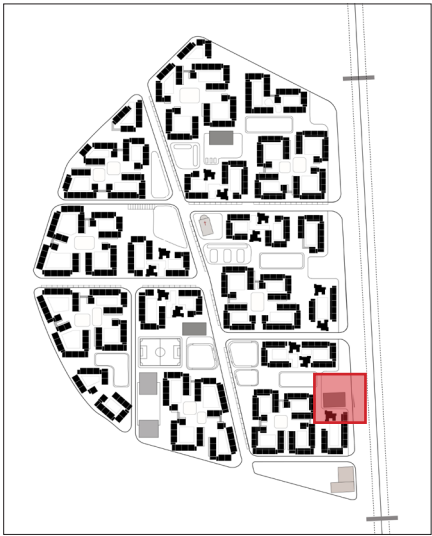
| URBAN CONDITION - defining the plotroads |



Borders of the housing as tresholds which distinct the dwelling with the public street.

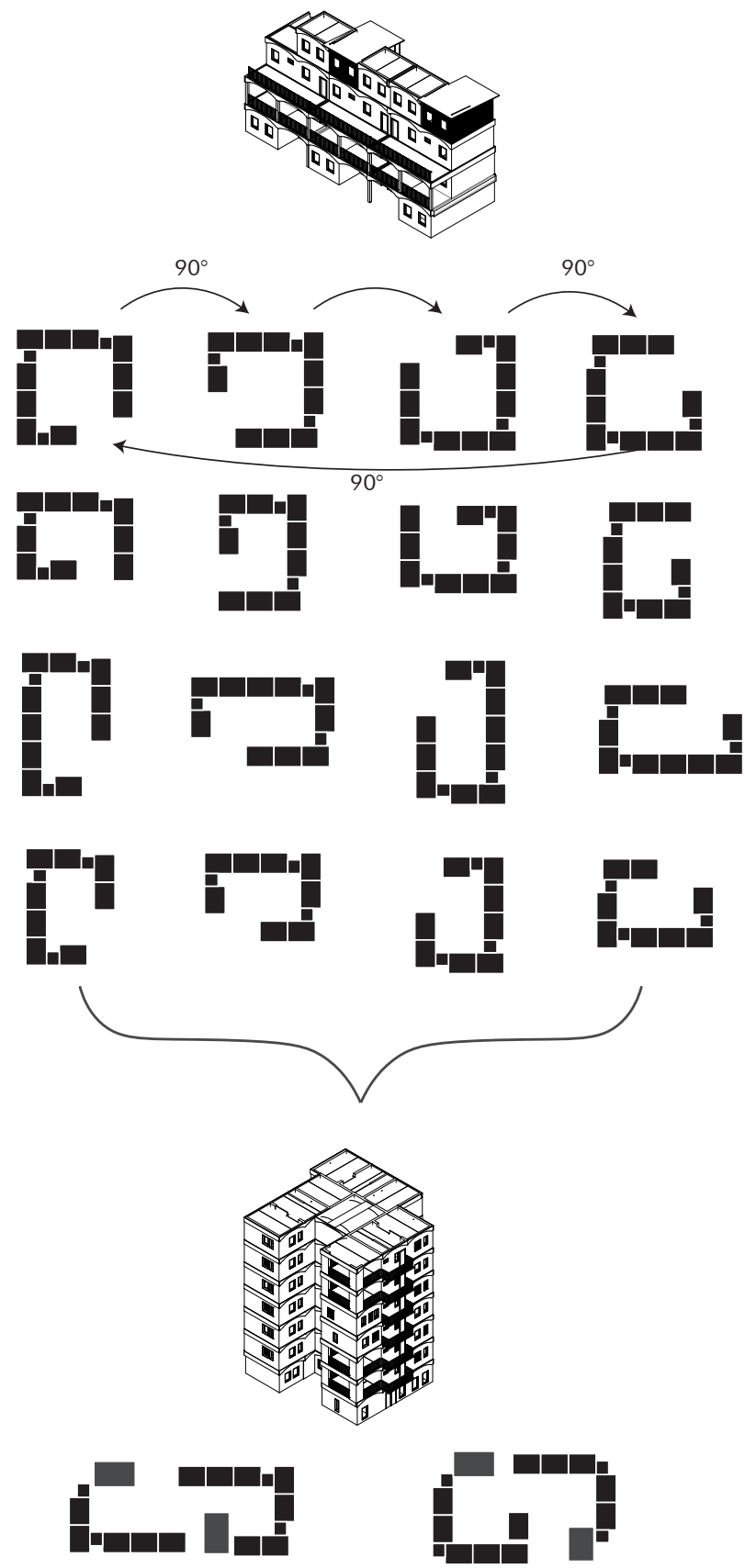


Urban Green Buffer-zone

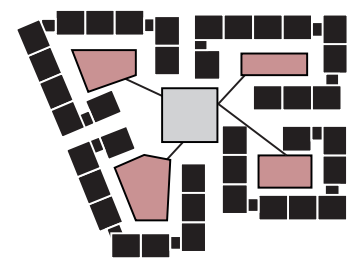
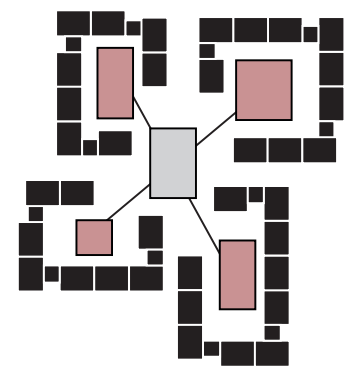
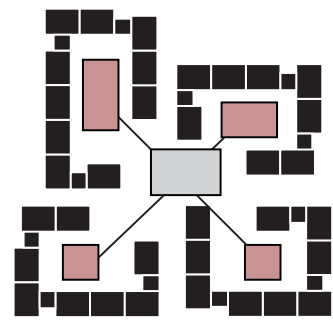


Defining the connection of the Green Buffer-zone with the residential plot.

| CLUSTER - configuration on urban scale |

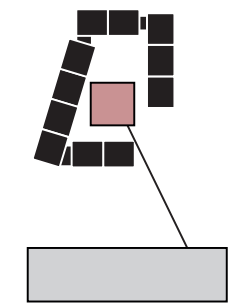
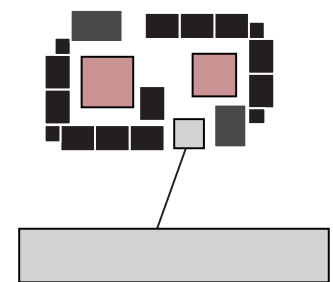
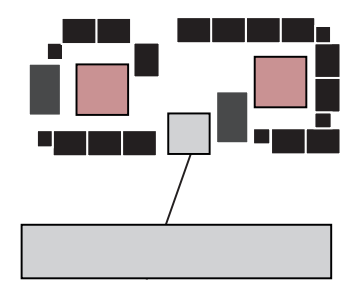


CONFIGURATION 4 CLUSTER



EXCEPTIONS

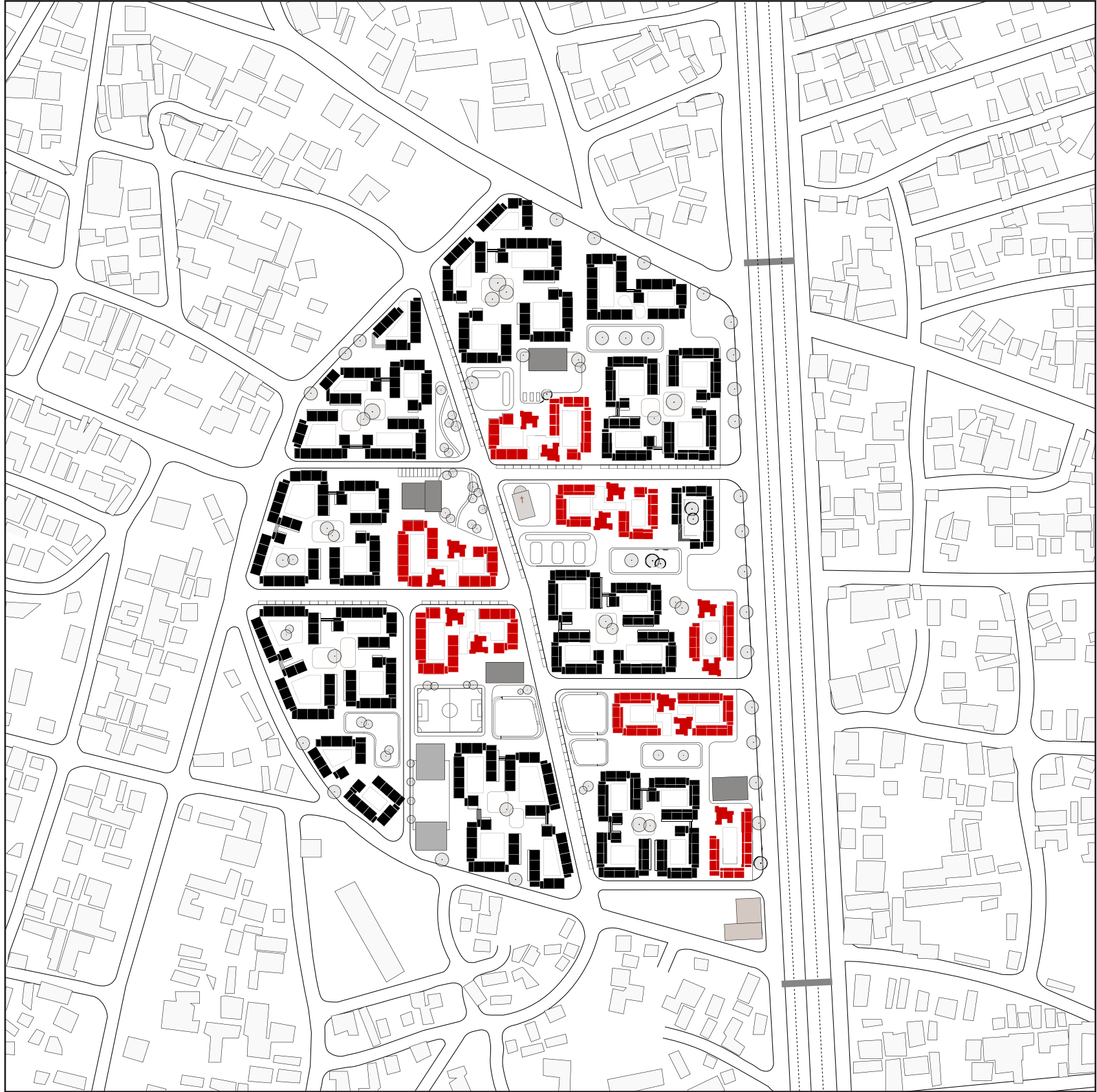
CONFIGURATION 2 CLUSTER



EXCEPTIONS

The 4 cluster and the 2 cluster should be independent clusters, having their own domestic live depending on the priorities and the dwellers, yet the communal spaces should connect them to each other.

The 2 cluster can be identified and 'closed' off by the use of the tower typology.



EWS & LIG

- Apartments (Low-rise | Highest level 4)
- Typology
 - Stacked apartments
 - Studio typology
 - 35% Duplex homes
 - 65% incremental building option

AMOUNT DWELLINGS: 1035

MIG

- Apartments (Low-rise | Highest level 4)
- Apartments
 - Stacked apartments
 - 35% Duplex homes
 - 65% incremental building option

- Mid-rise tower (Highest level 7)
- 85% Apartments
 - 15% Duplex homes

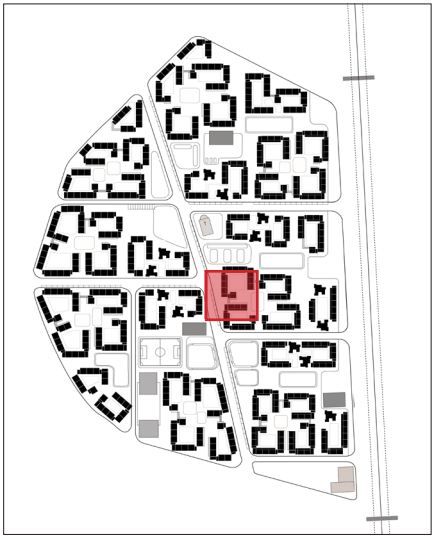
AMOUNT DWELLINGS: 566



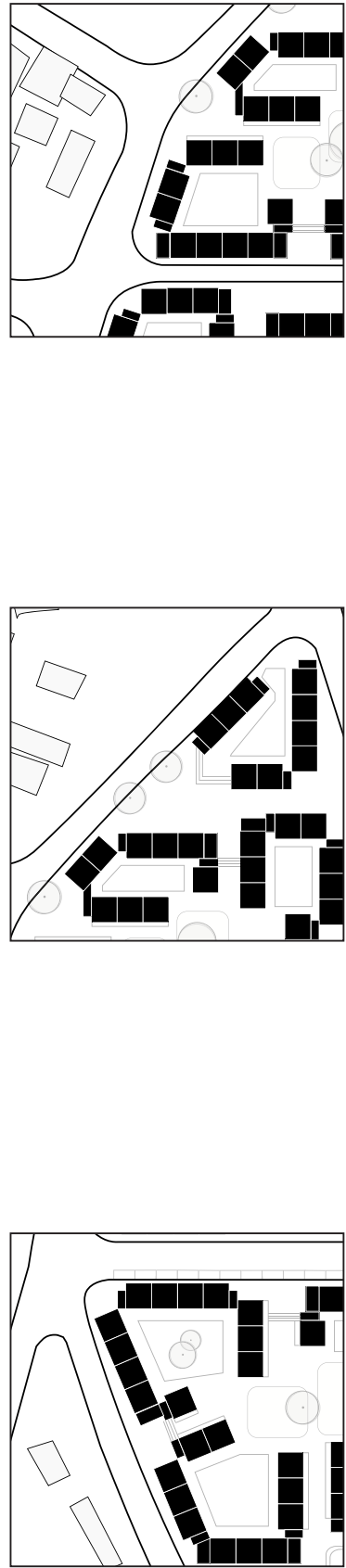
Connecting the different plots with each other



| URBAN CONDITION - defining the activity axis |



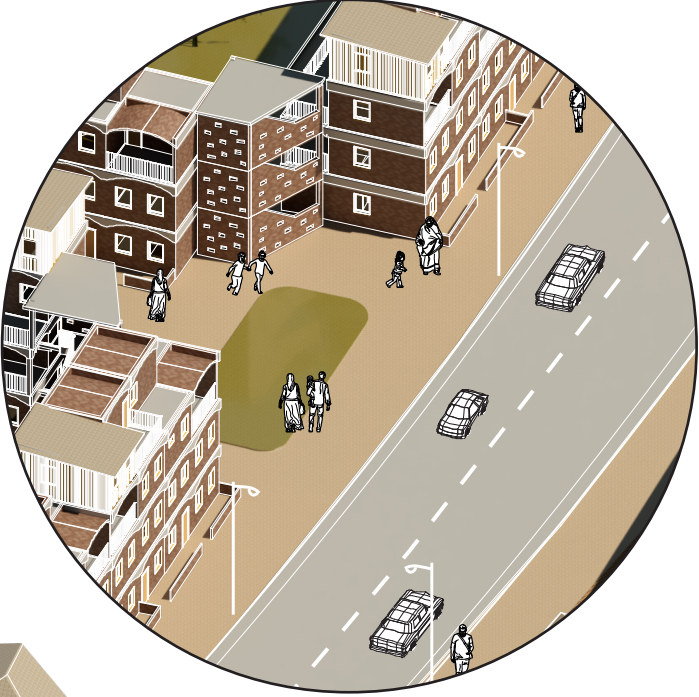
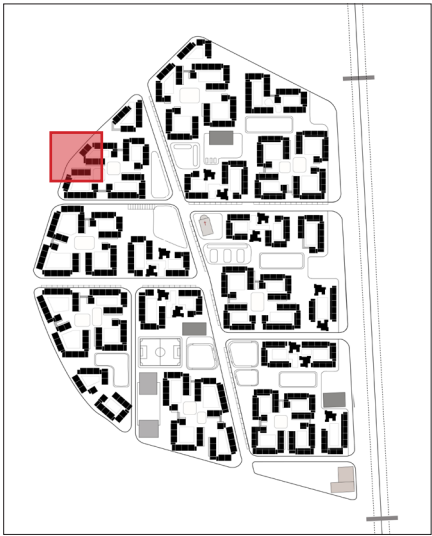
Parking and public green spaces
as a treshold.



| URBAN CONDITION - relationship adjacent border |

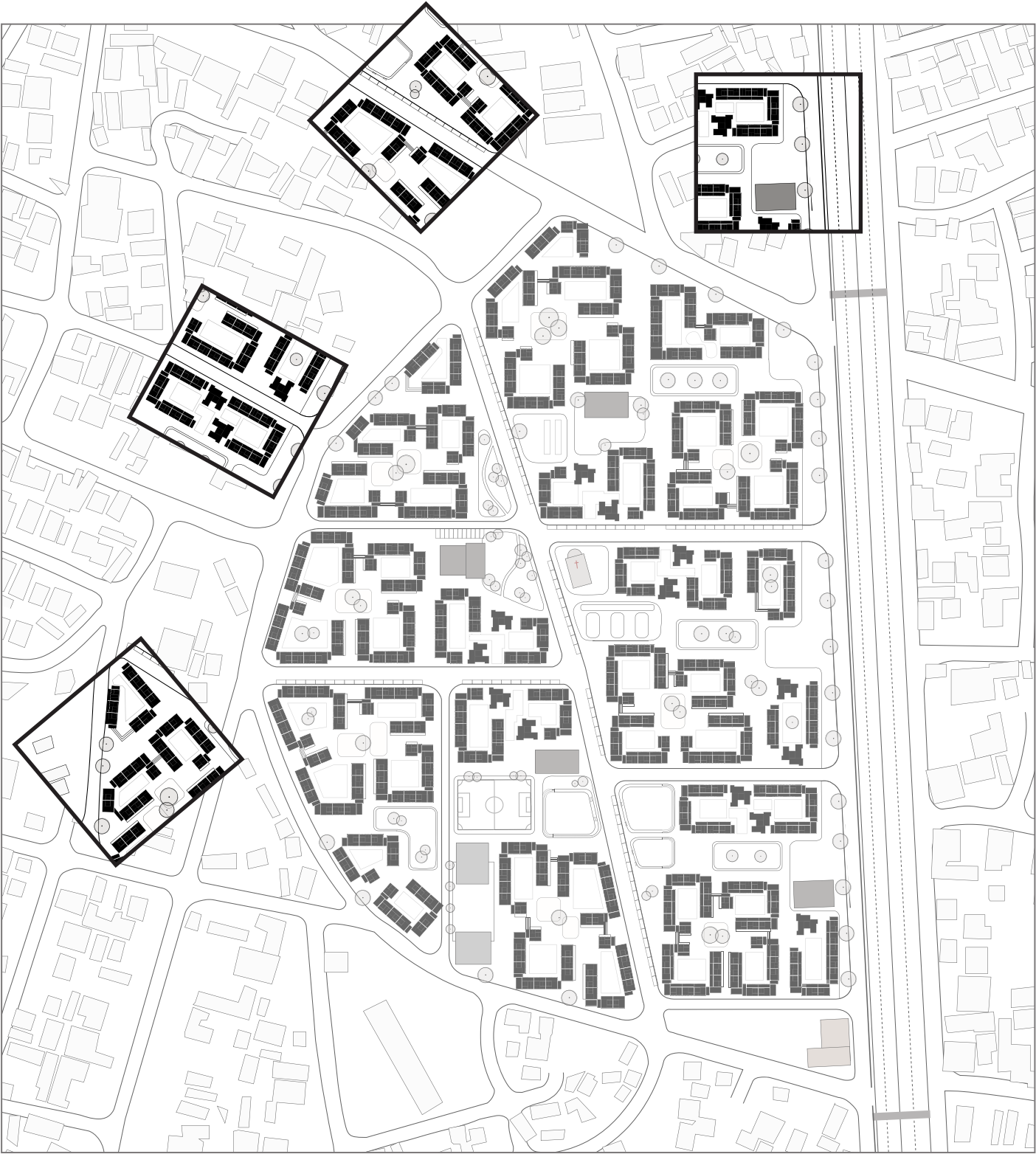


| URBAN CONDITION - relationship adjacent border |



Residential block in relation to the informal settlements.

| URBAN CONDITION - transferability |



DESIGN PROPSAL

| URBAN CONDITION - transferability |



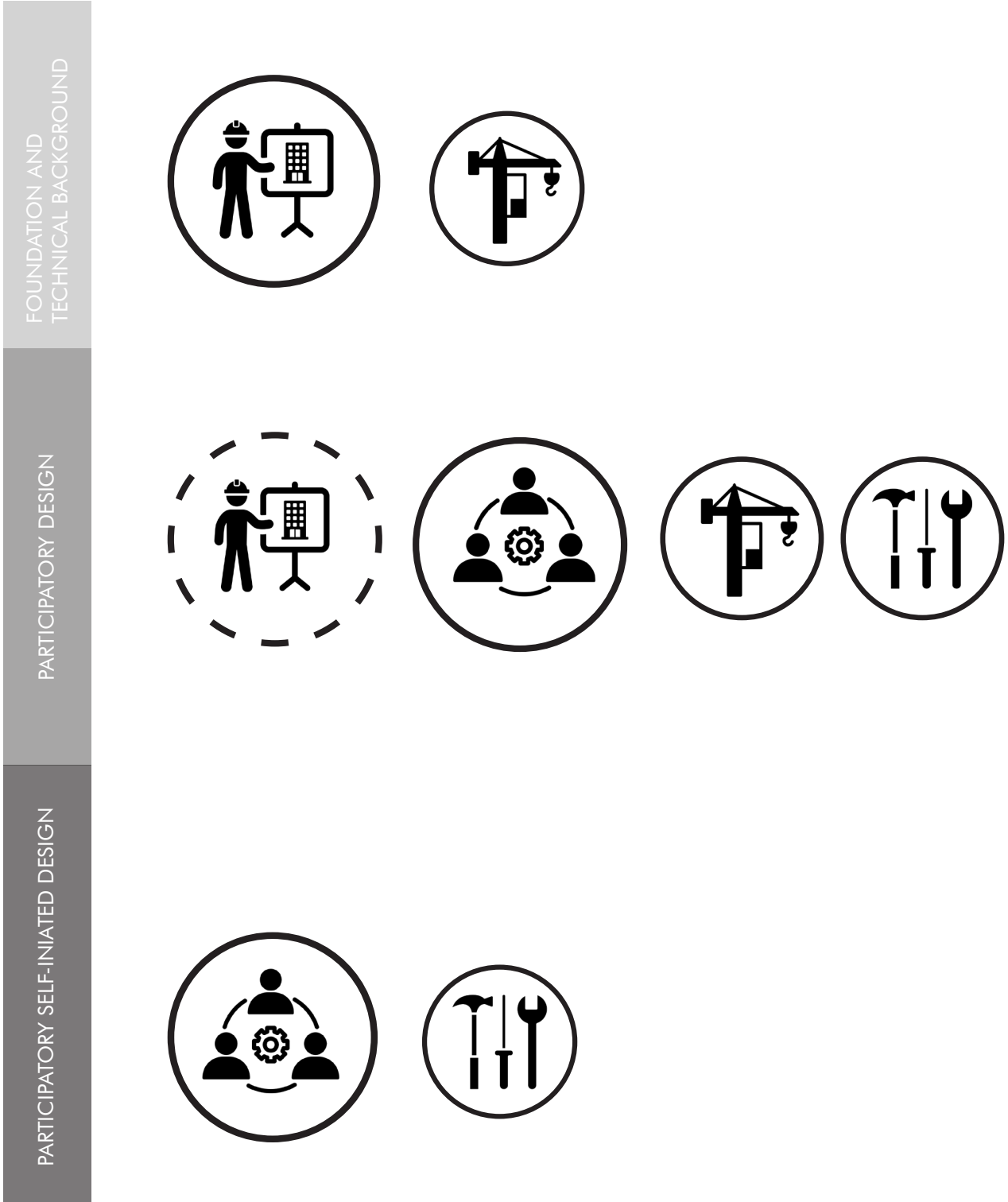
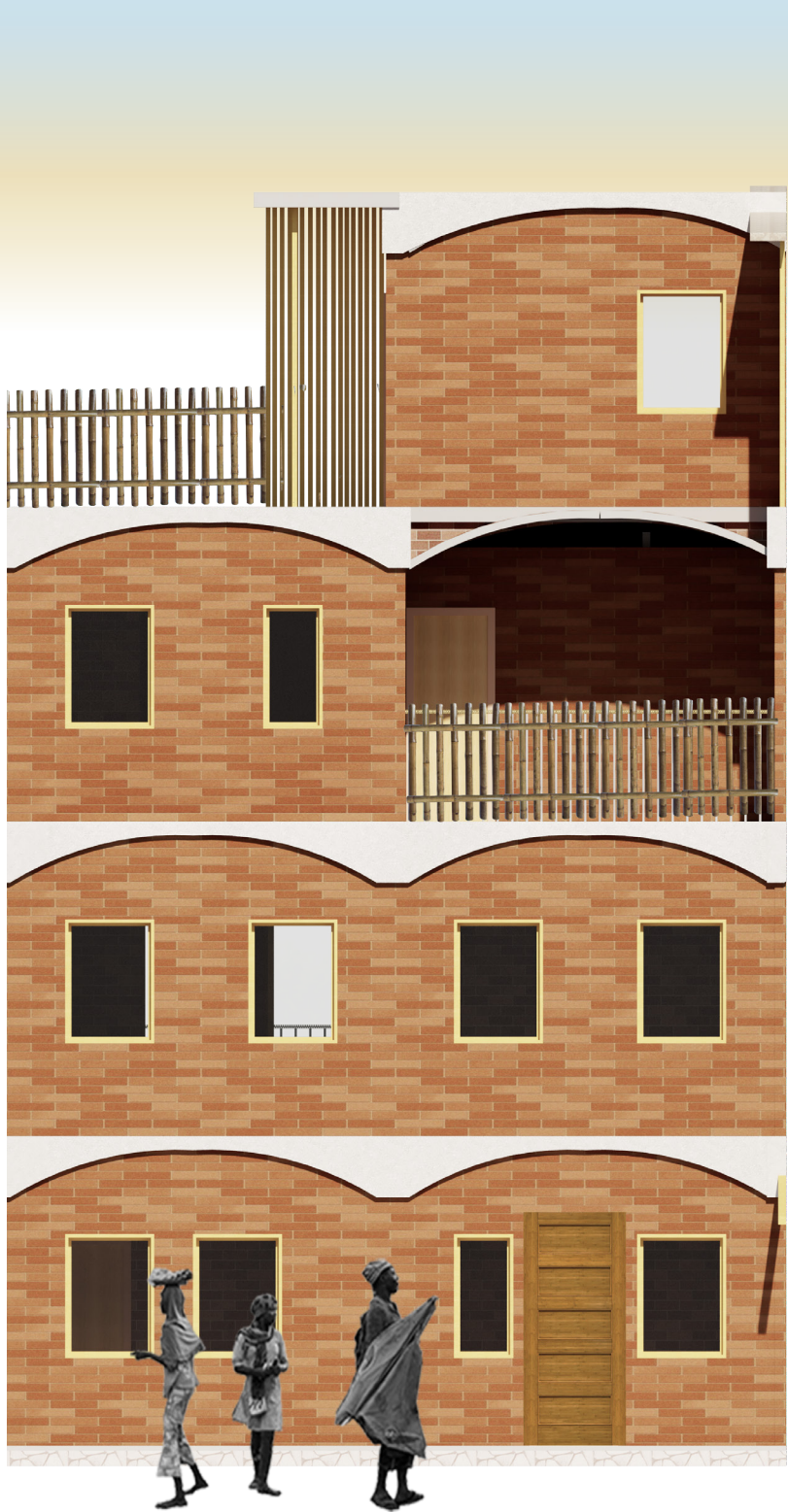
| ASKO - rural |

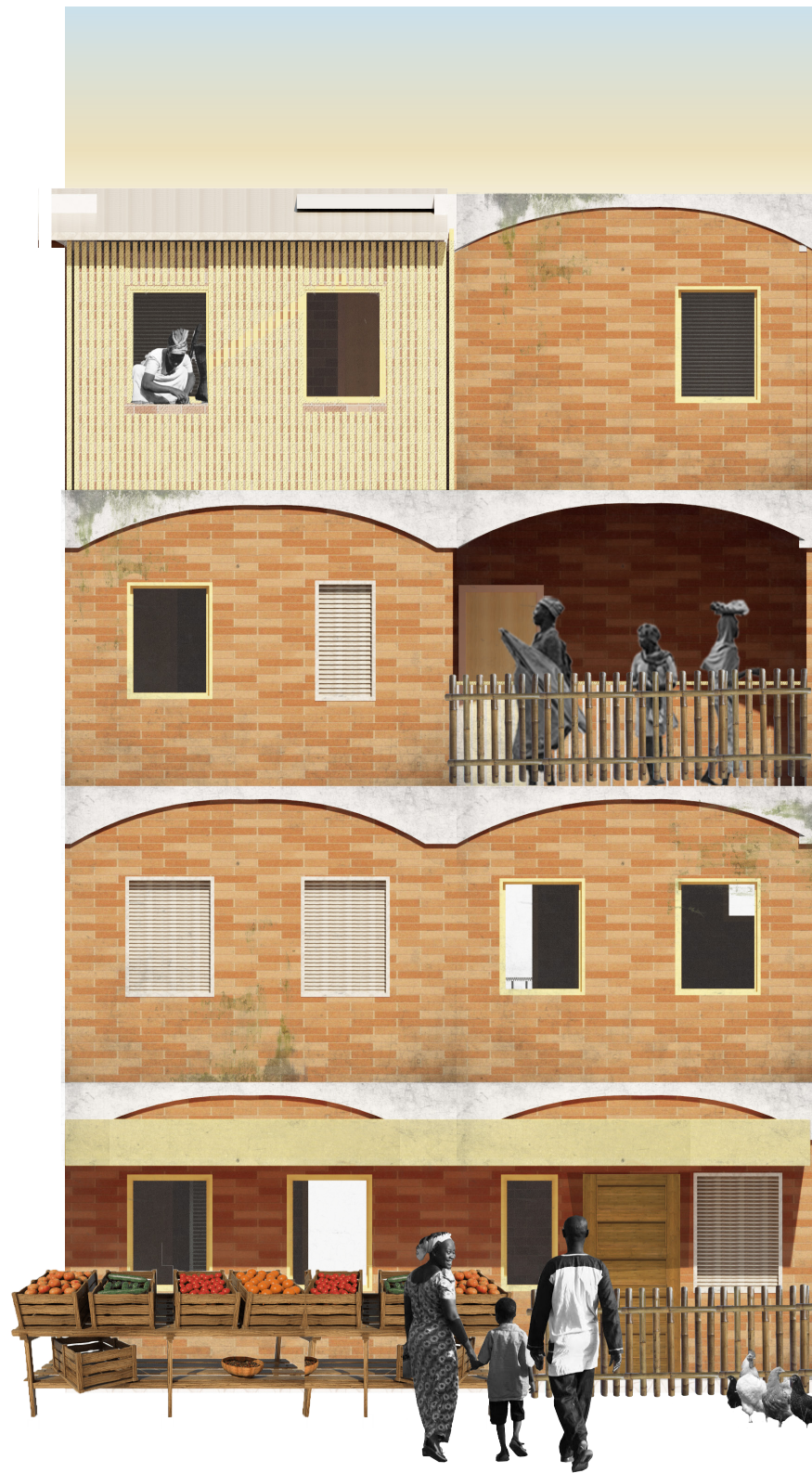


| GOTERA - urban |

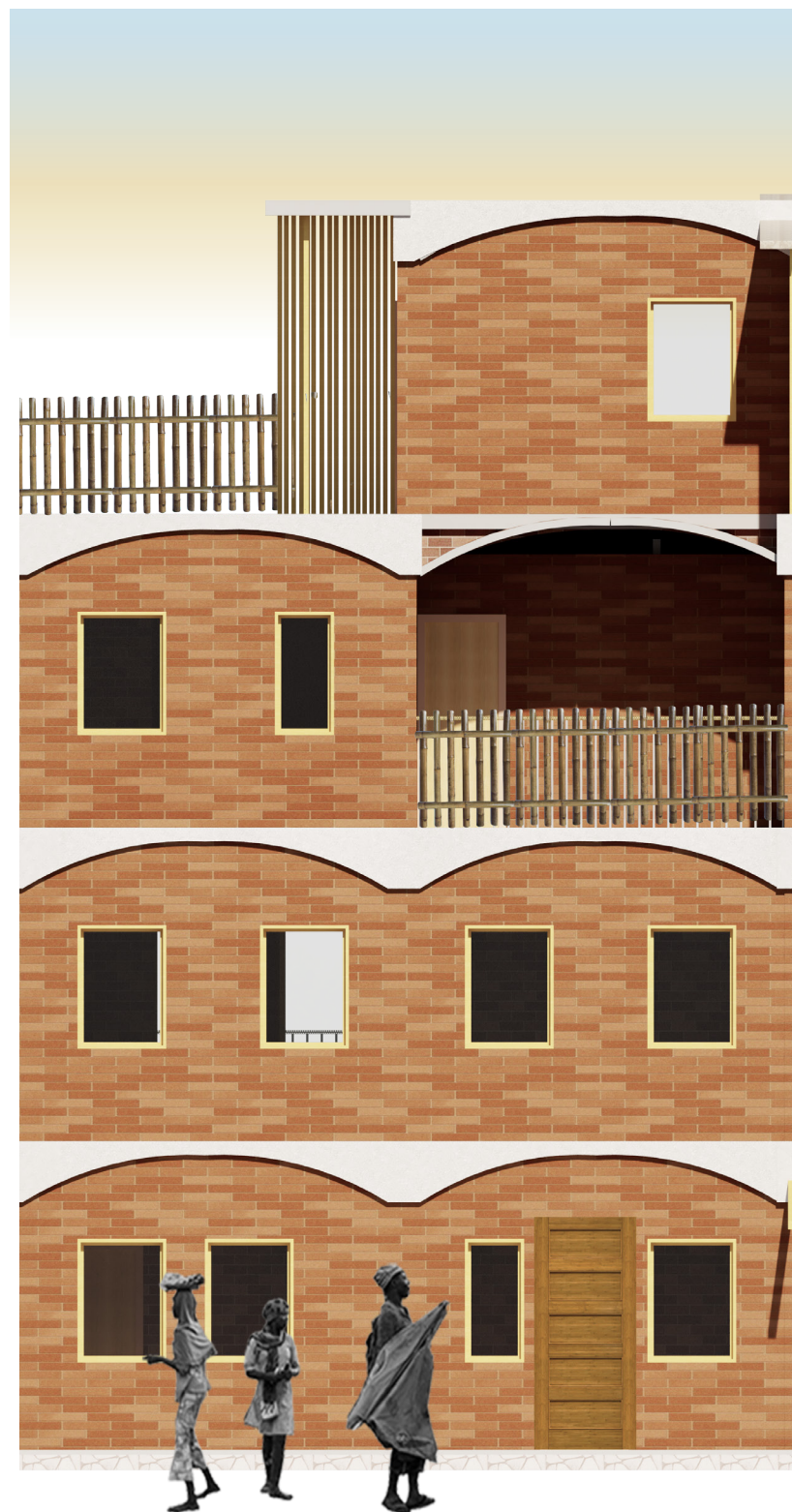












| UPON DEVELOPMENT |



| AFTER 5 YEARS? |



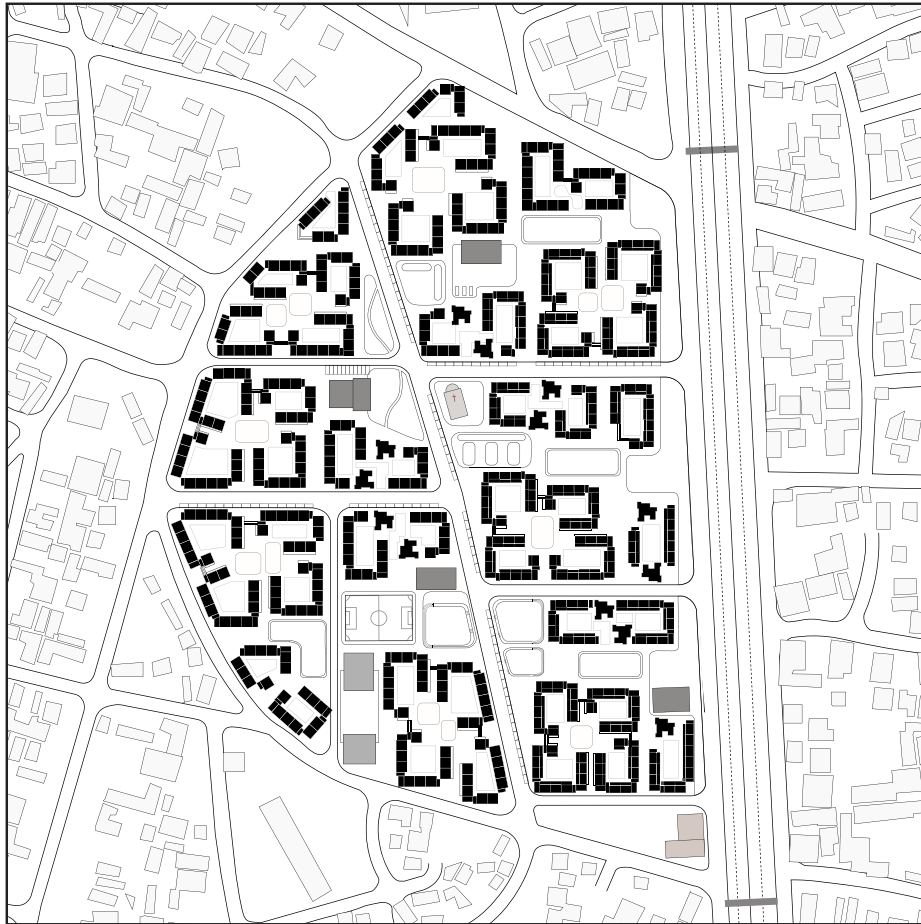
| AFTER 20 YEARS? |



Current State
Current dwelling units - 563
Density: 79 dw/ha



Condominium Proposal 20/80
Current dwelling units - 1565
Density: 221 dw/ha



Design Proposal
Current dwelling units - 2053
Density: 289 dw/ha

