A Safe Return

Nynke Keulen

noun

'the standard of *health, comfort, and happiness* experienced by an individual or group'

urban to unit scale

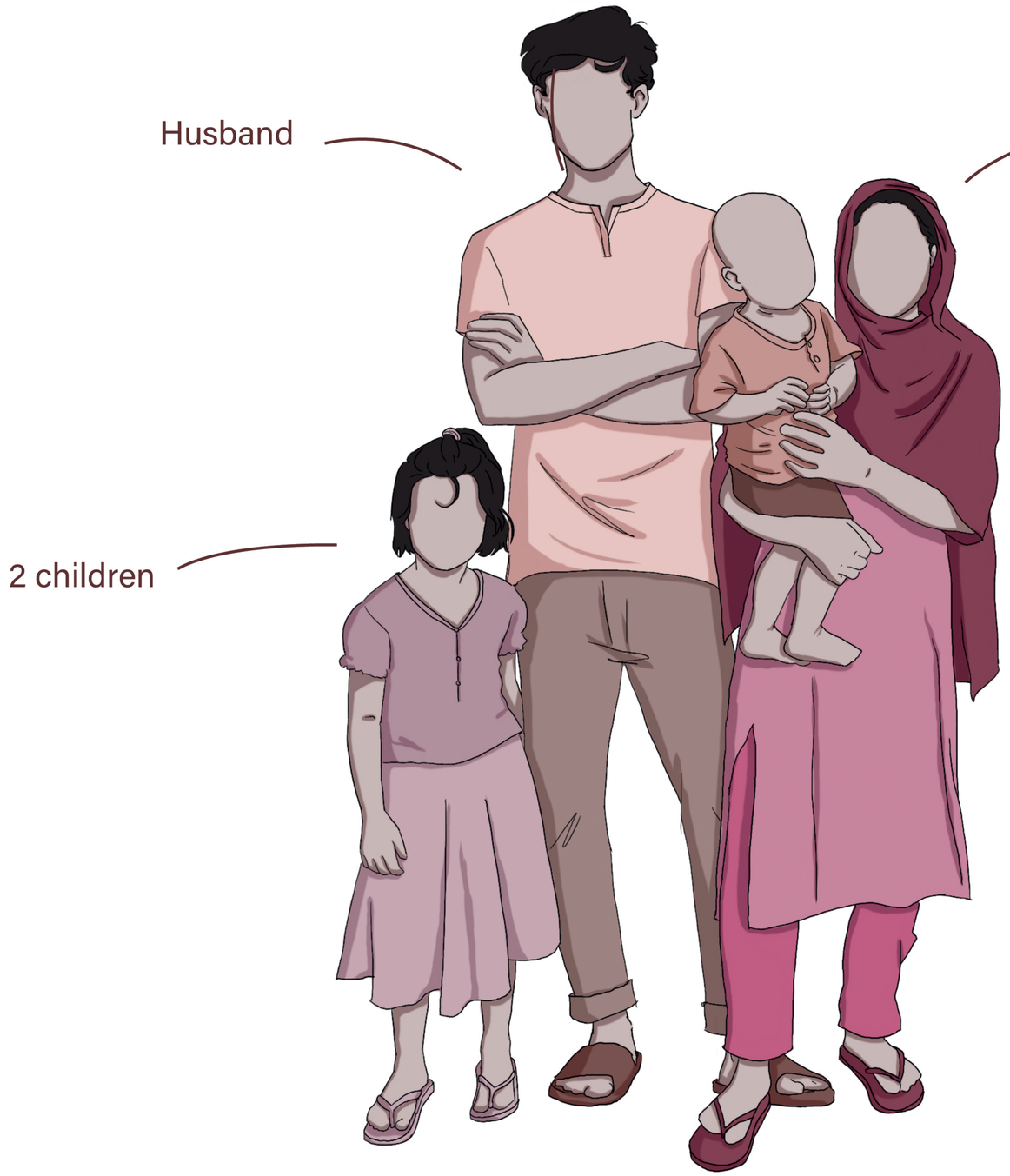
*How can **design** improve **the quality of life** for **women living in informal settlements** in and around their house in Sylhet?*

women living in the Islamic part of the Sweepers Colony

Site Analysis

Persona
Site Plan
Main Problems





Sadia
37 years old
Living in the Islamic part

Site Analysis | Urban Scale



Site Anasysis | Site Plan



Site Analysis | Site Photos



Islamic part
Houses made out of corrugated steel

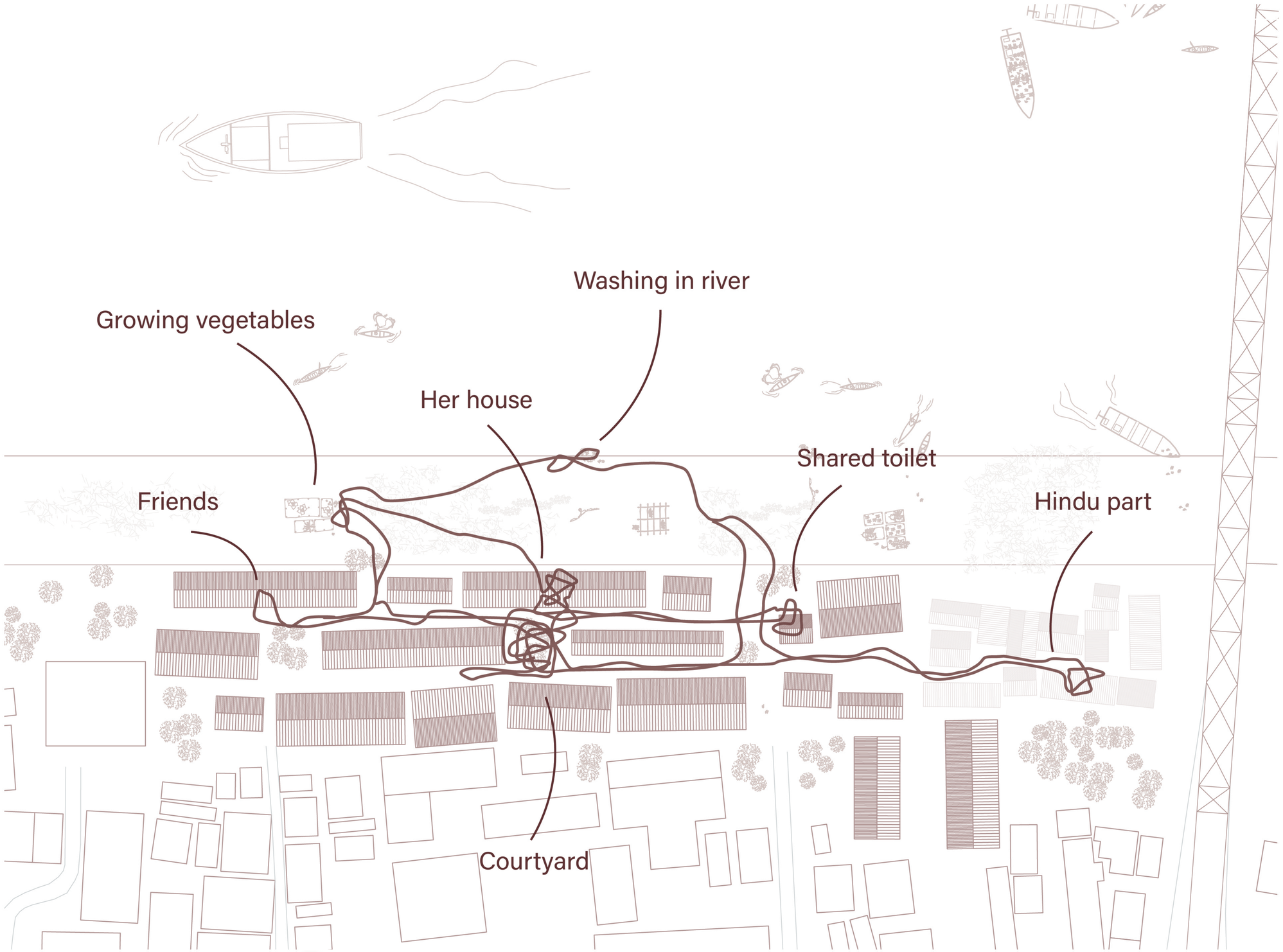


Hindu part
Houses made out of concrete

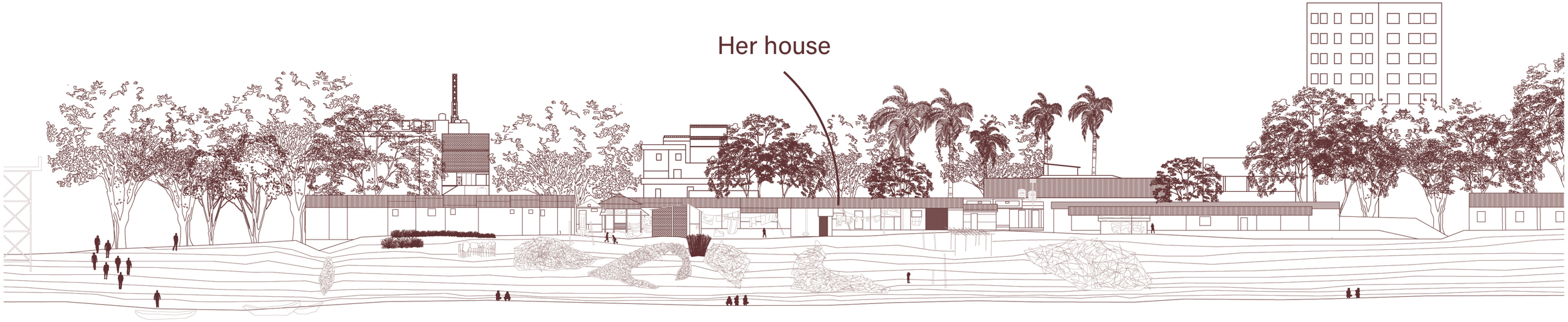


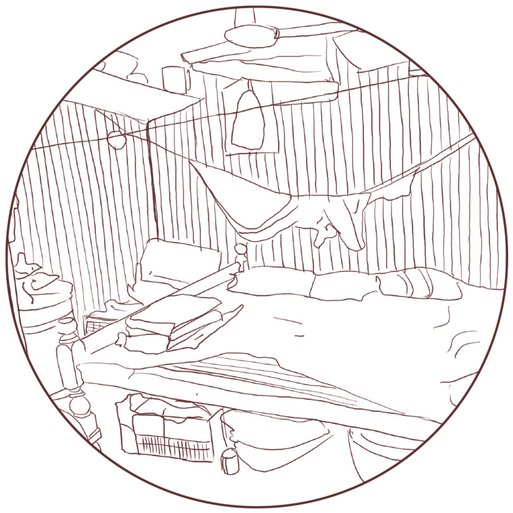
Keane bridge
Image of Sylhet

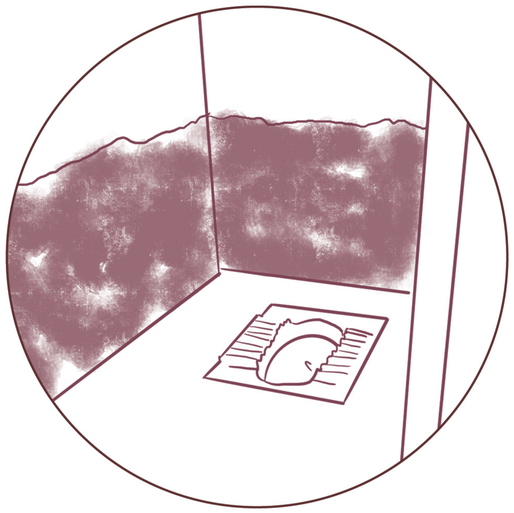
Site Analysis | Day in the Life of Sadia



Site Analysis | Elevation Other Side of the River













Feeling Safe

Eyes on the streets in public spaces

Privacy in the house

Places where children can play freely



Feeling of Community

Spaces to come together from urban to unit scale (public and more private)

Connection to Hindu community

Opportunities for Self-Development along with other women



Feeling Healthy

Private sanitation and washing facilities

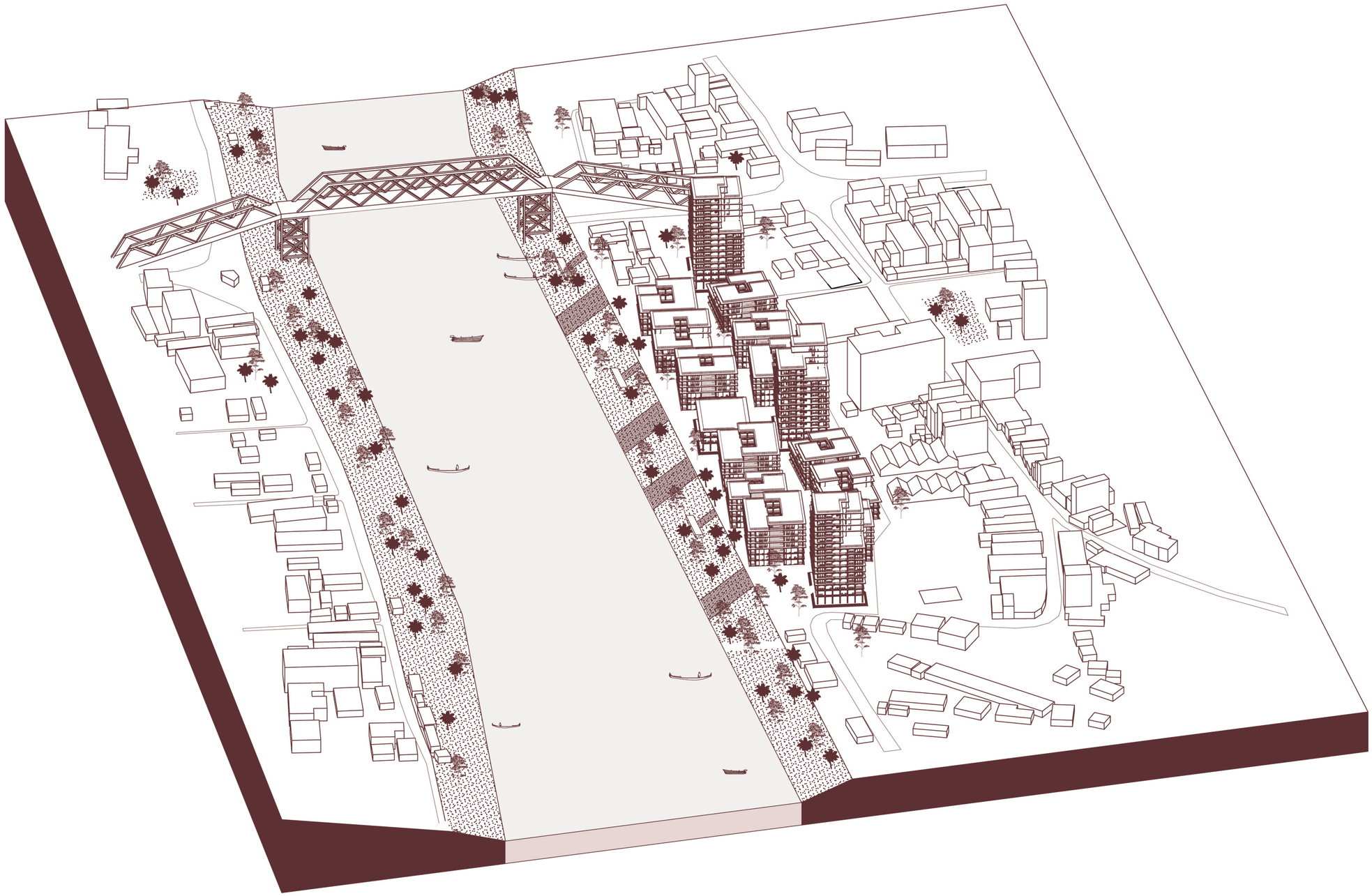
Greenery

Introducing Design

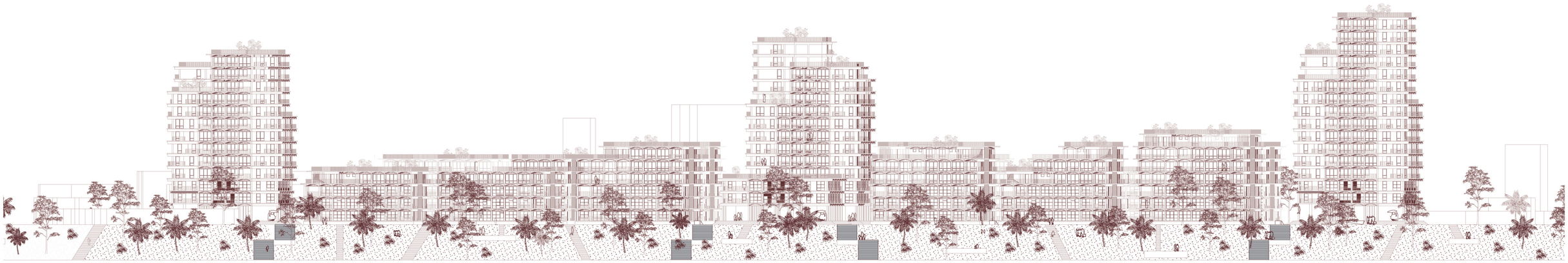
Urban Strategy



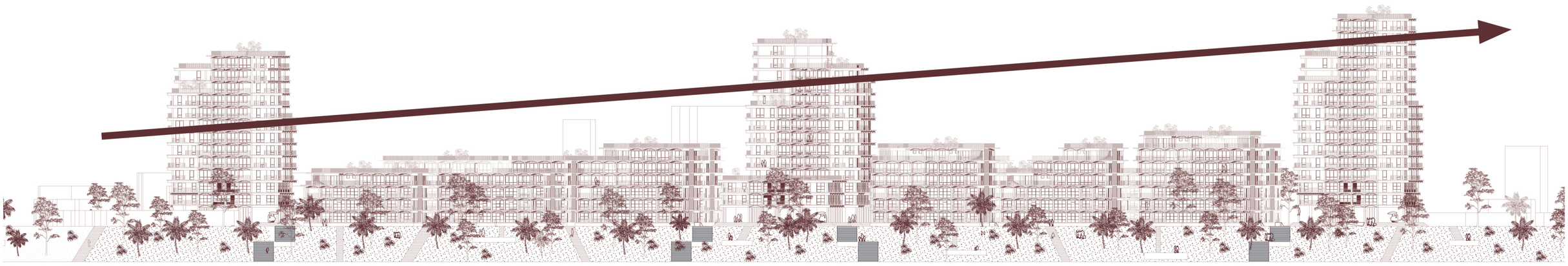
Urban Strategy | Axonometric View of the Plot



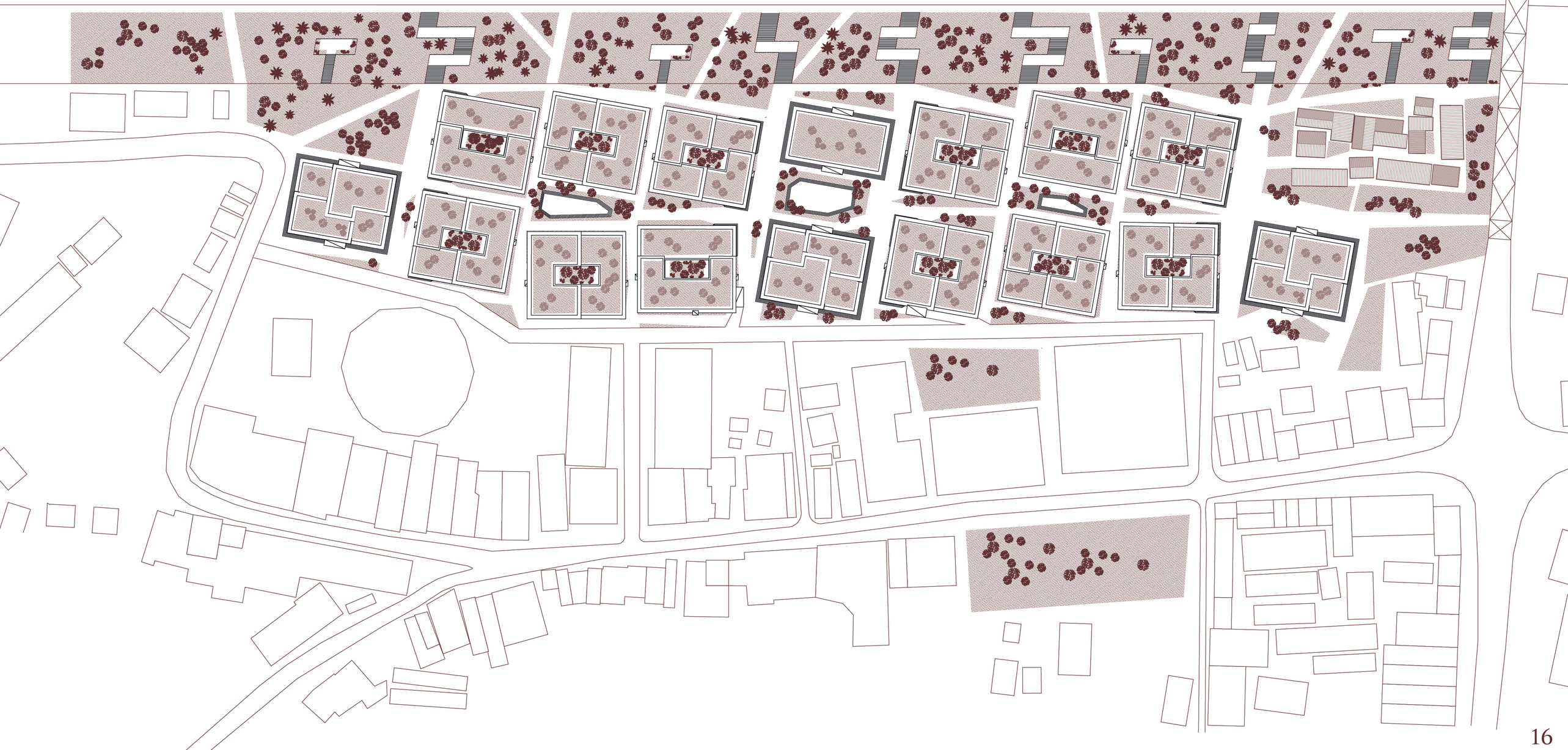
Urban Strategy | Elevation From Other Side of the River



Urban strategy | Elevation From Other Side of the River



Urban Strategy | Plan Roofs

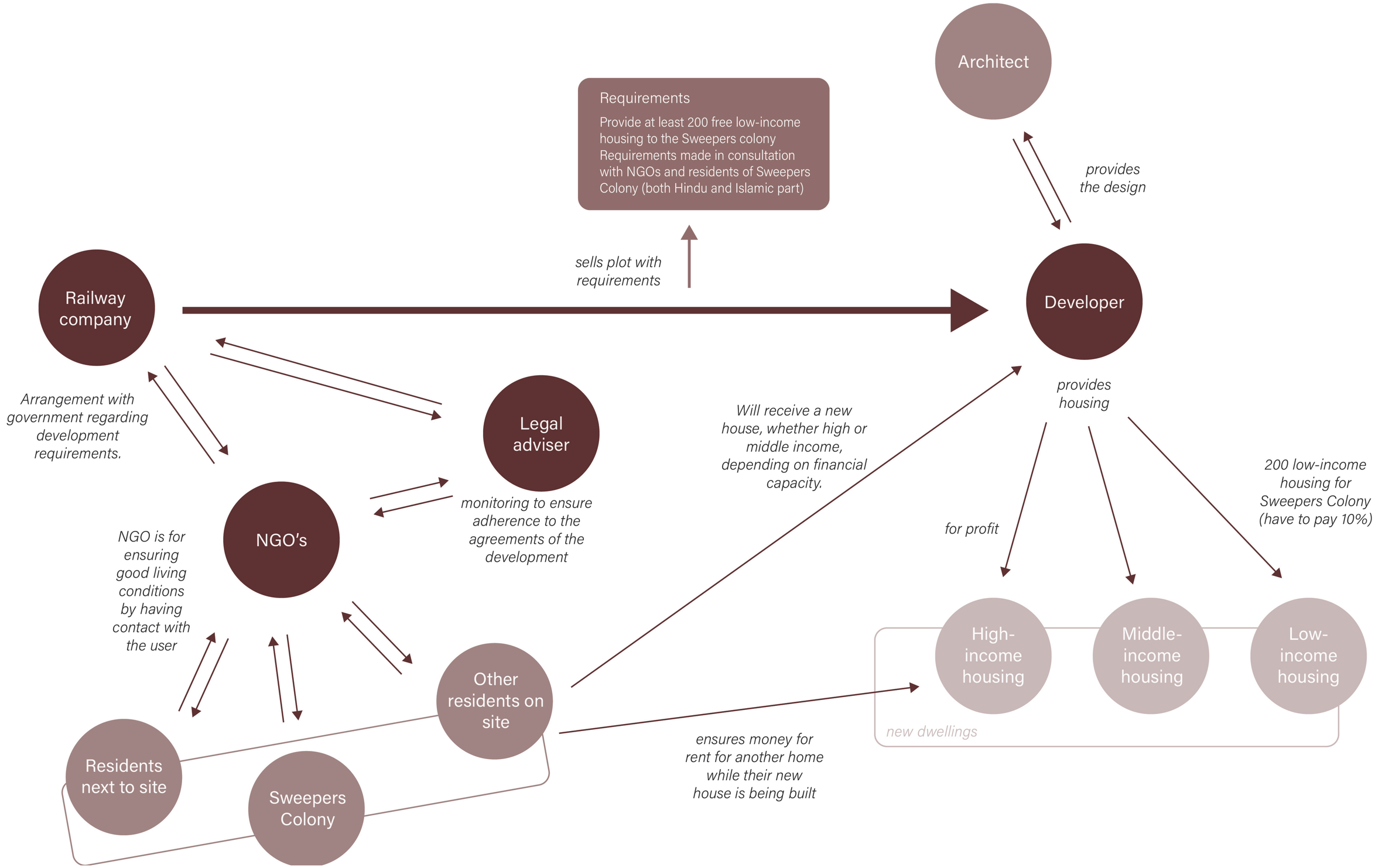


Managerial Strategy

Stakeholders
Phasing
Numbers



Managerial Strategy | Stakeholders



Managerial Strategy | Phasing of Project



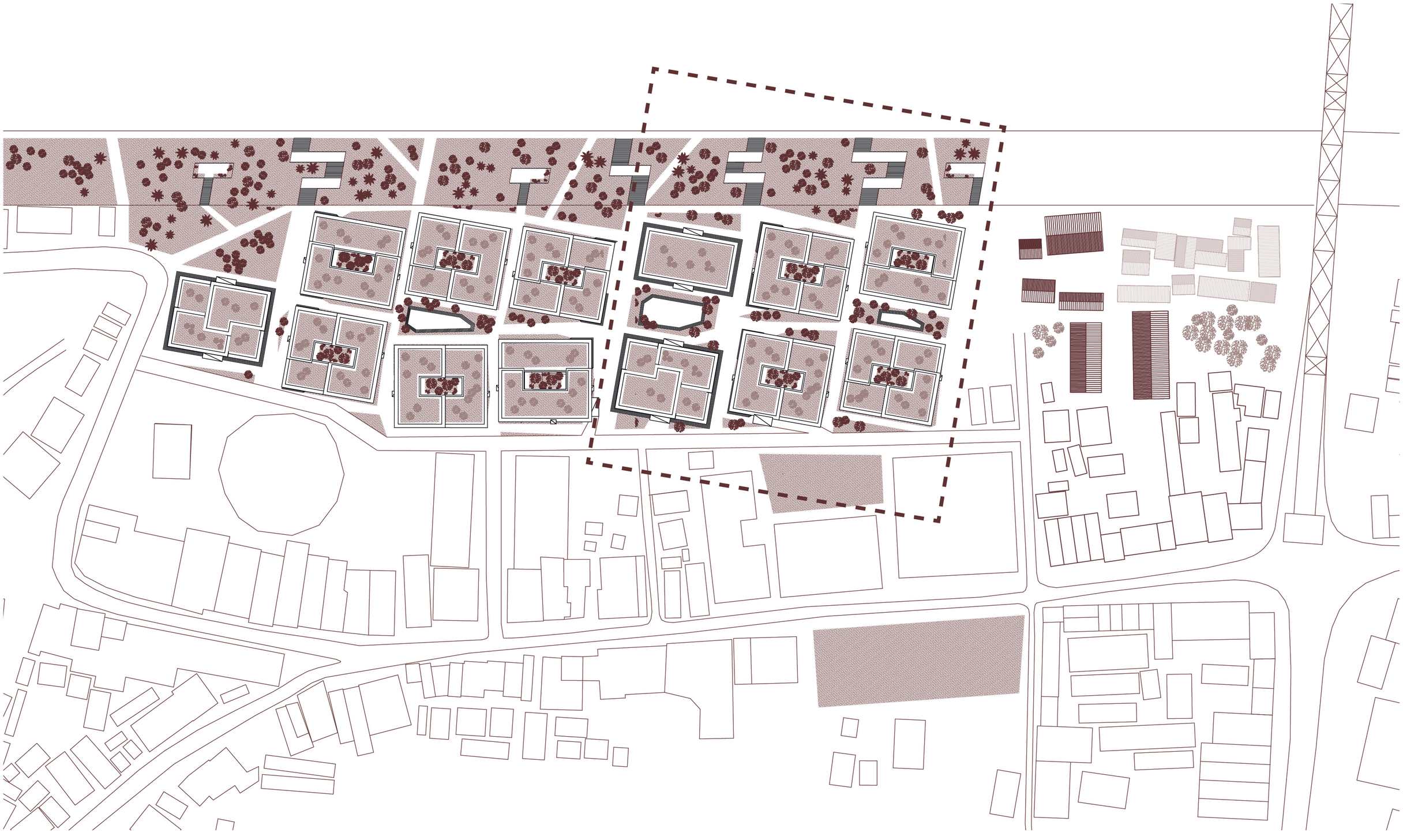
Managerial Strategy | Phase 1

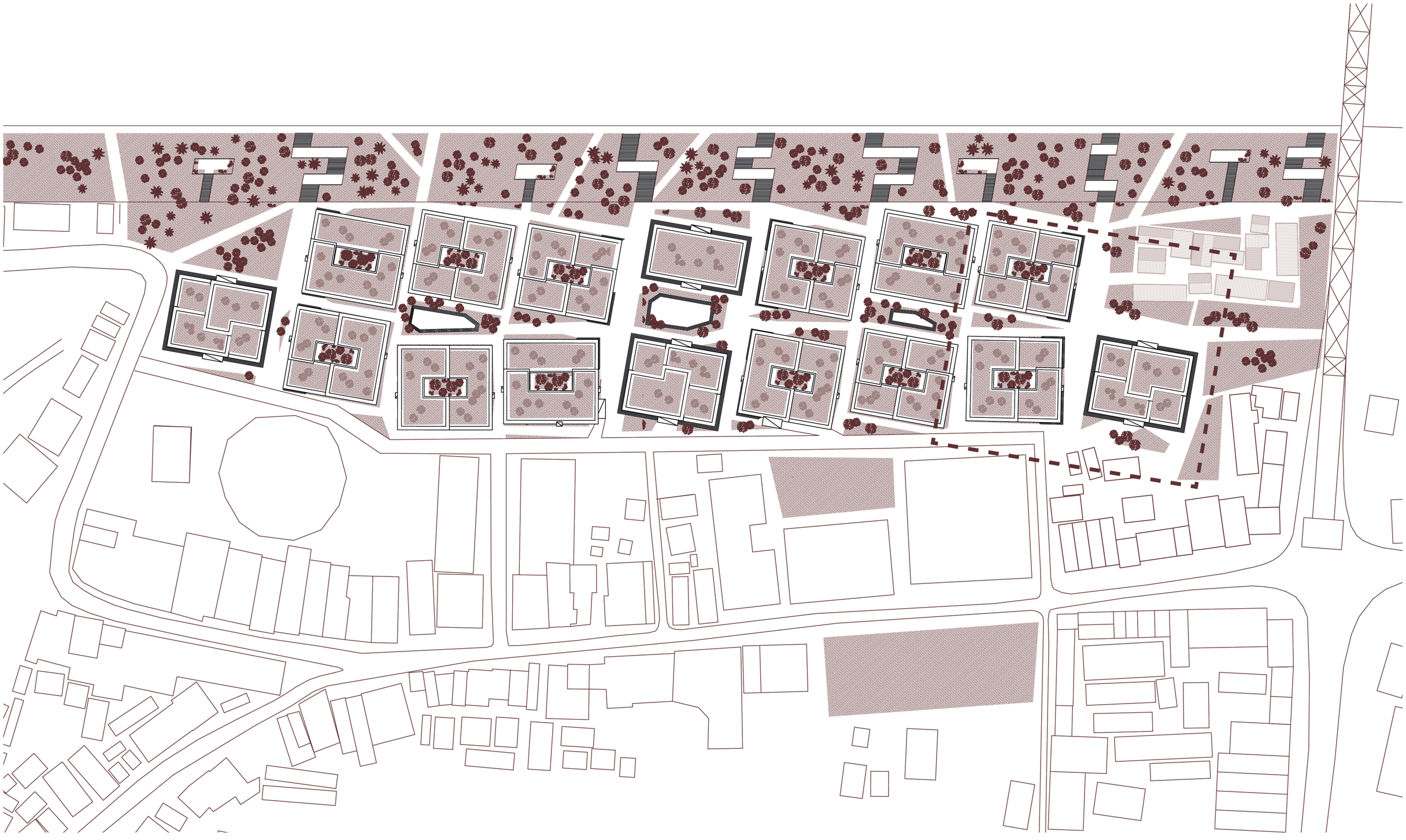
People living here receive money to rent a temporary home elsewhere when phase 1 is built

The Sweepers Community can stay in their house when phase 1 is built. Once this is completed, they can live in the new residences.



Managerial Strategy | Phase 2





	Previous Situation	New Development
Plot Size	15300m2	15300m2
GSI	0,28	0,45
FSI	0,35	2,95
Units/Ha		327
Open Space/Resident		5,3
Amenities/Resident		4,3
Revenue		46,3%
Units Low Income	200	264
Units Middle Income		252
Units High Income		38

Design

Urban Strategy
Urban Cluster Strategy
Cluster Strategy
Unit Strategy







Pedestrian Path in Asian Games Villages (Asian Games Village-New Delhi – 1980-1982 – Raj Rewal Associates, n.d.)



Pedestrian core through the whole plot

Urban Strategy | Pedestrian Core



Urban Strategy | Pedestrian Path Along the Riverbank



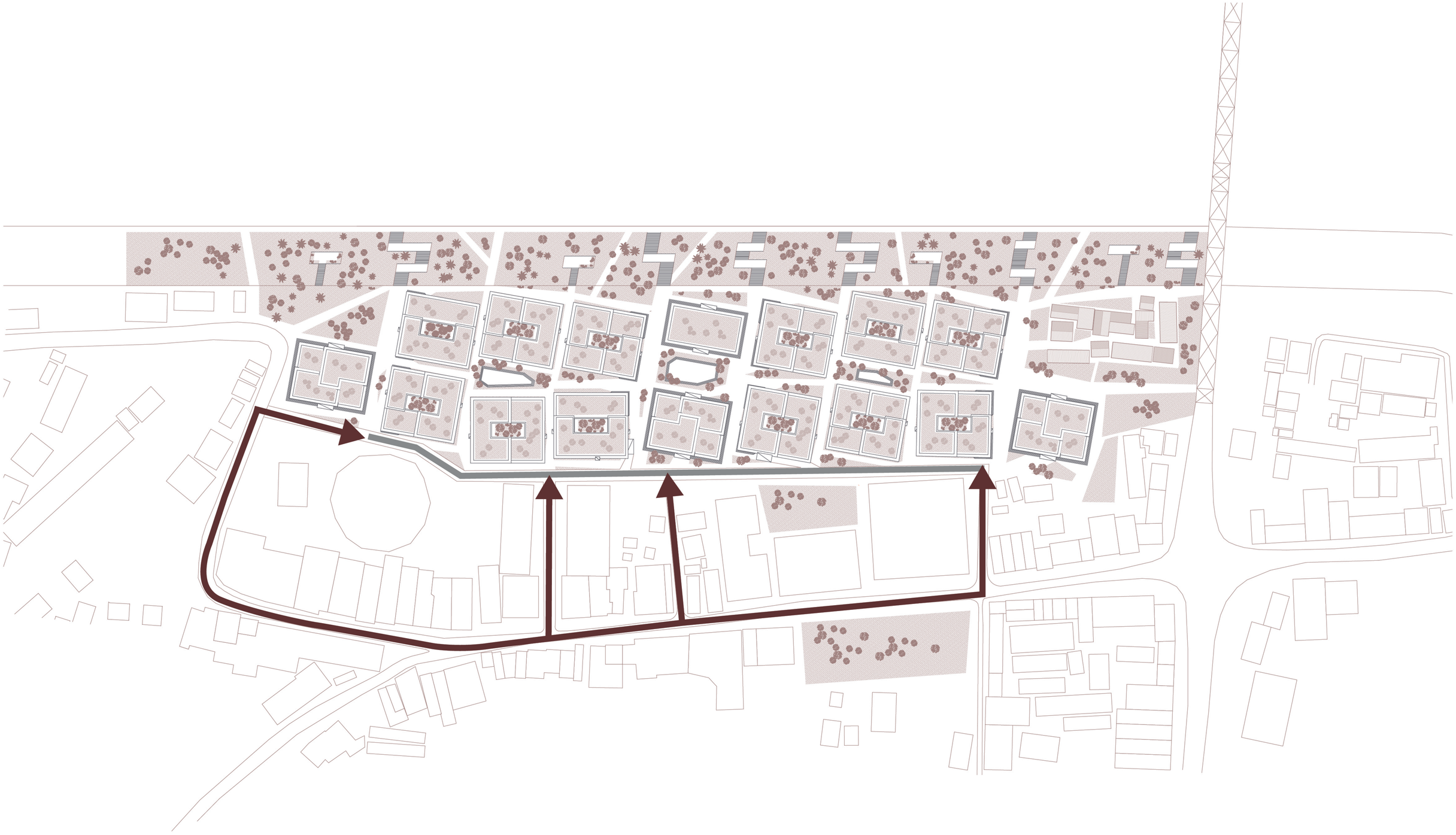
Urban Strategy | Pedestrian Crossroads



Urban Strategy | Road for Cars



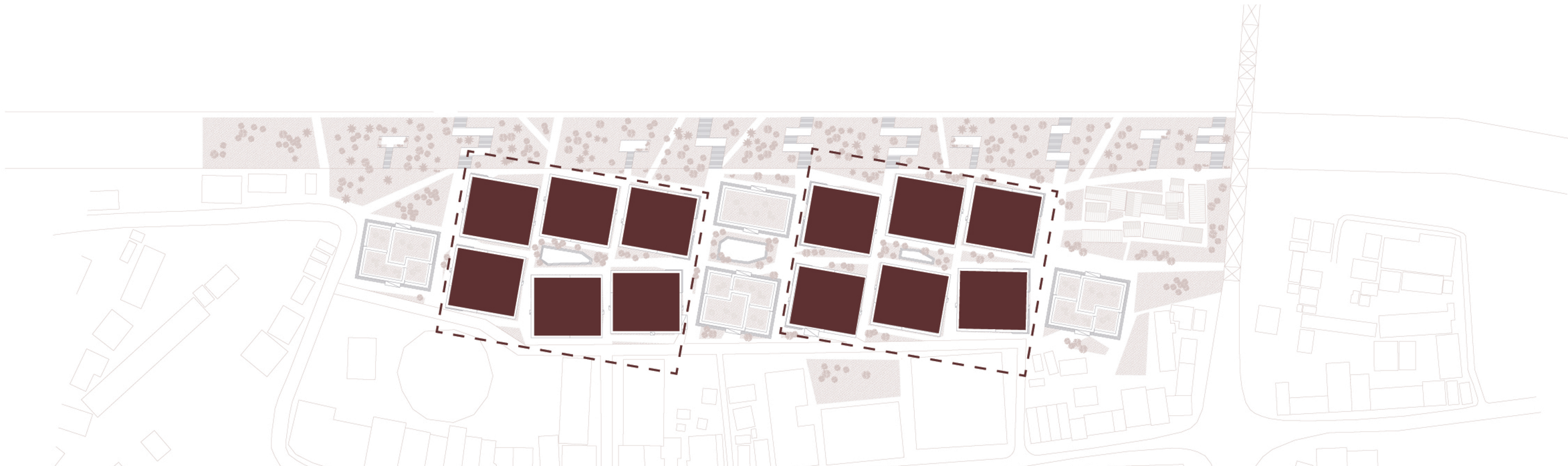
Urban Strategy | Main Entrances Plot



Urban Strategy | Public / Private

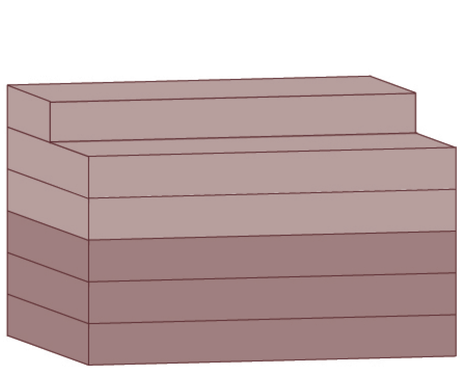



Tower
Community Center
Block Housing
With Courtyard



Middle income housing

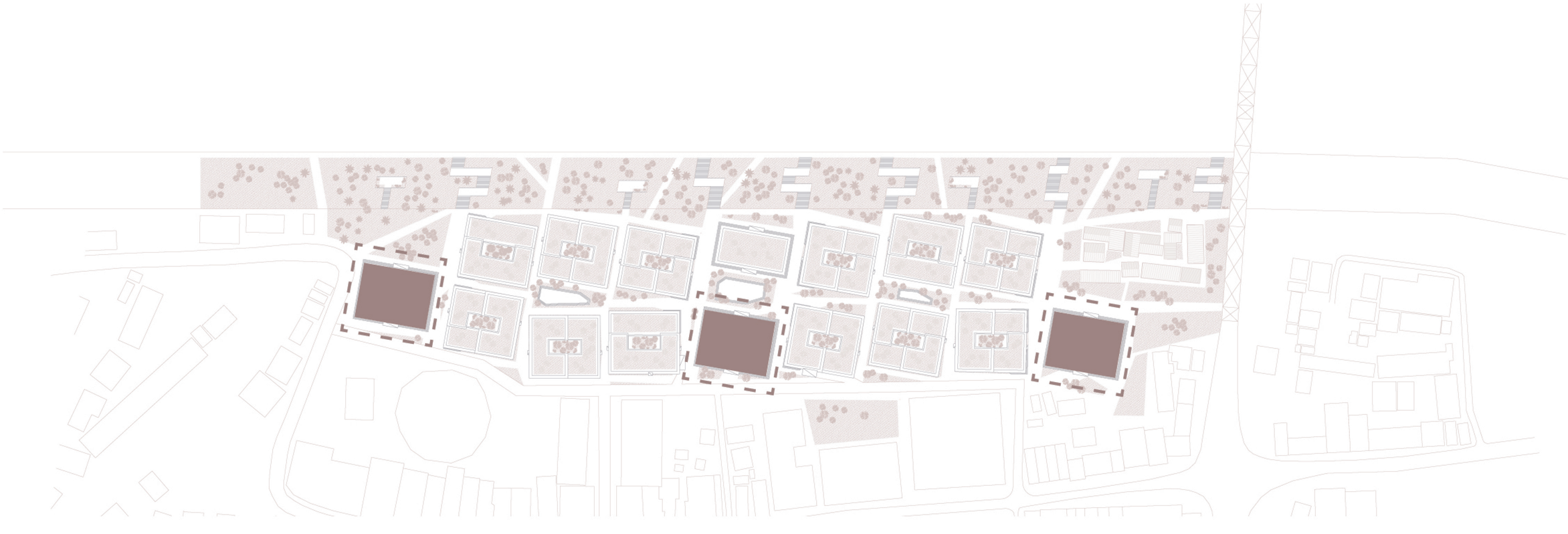
Low-income housing









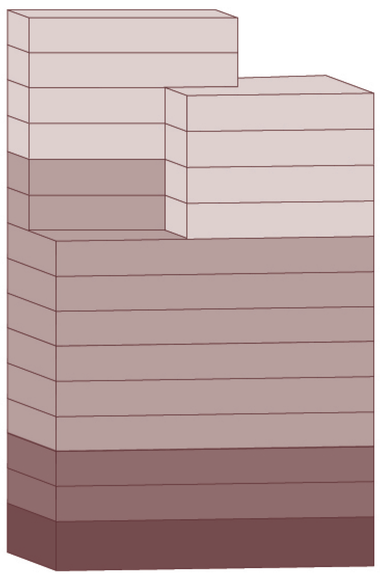


High-income housing

Middle-income housing

Workshop spaces

Shops

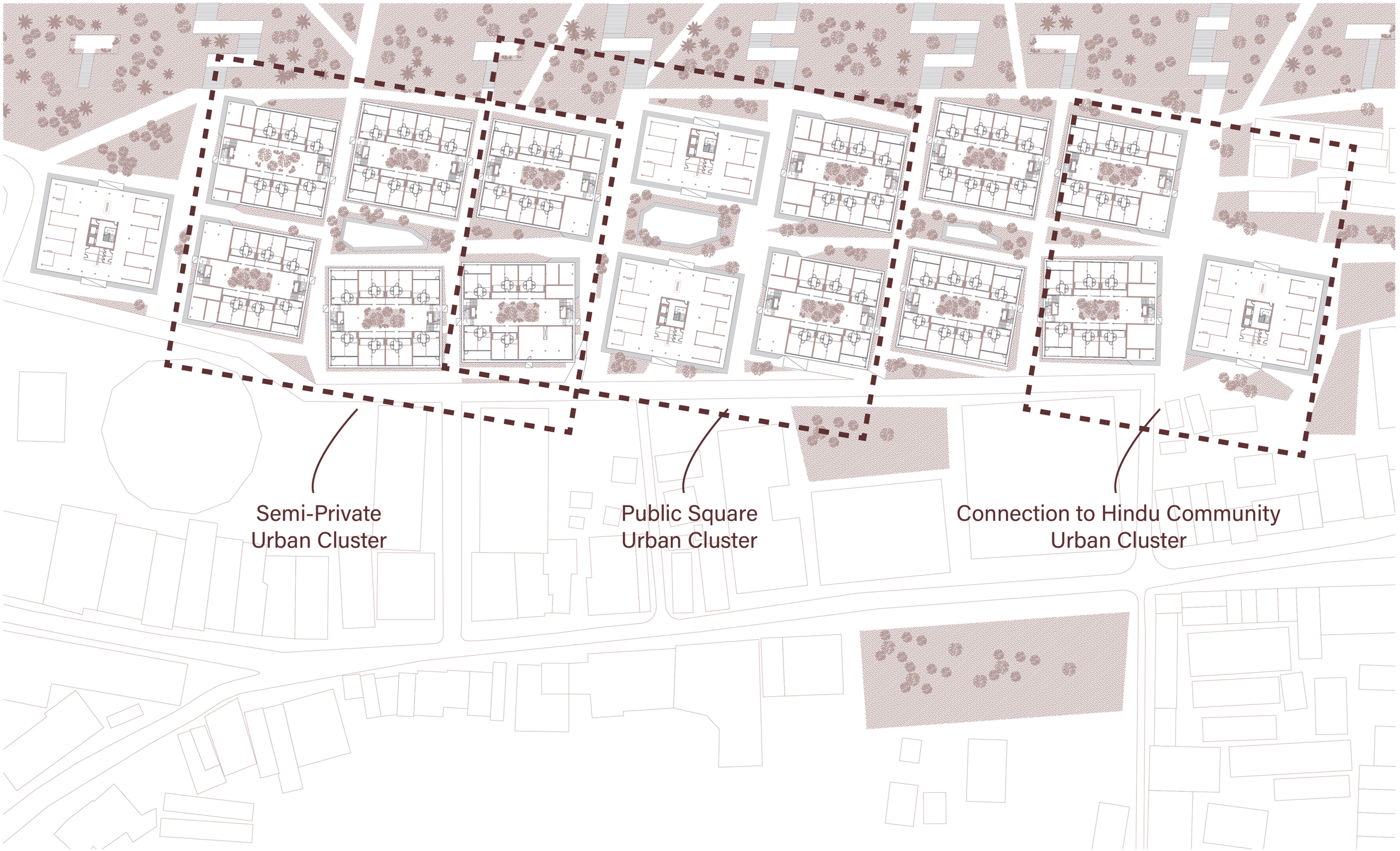




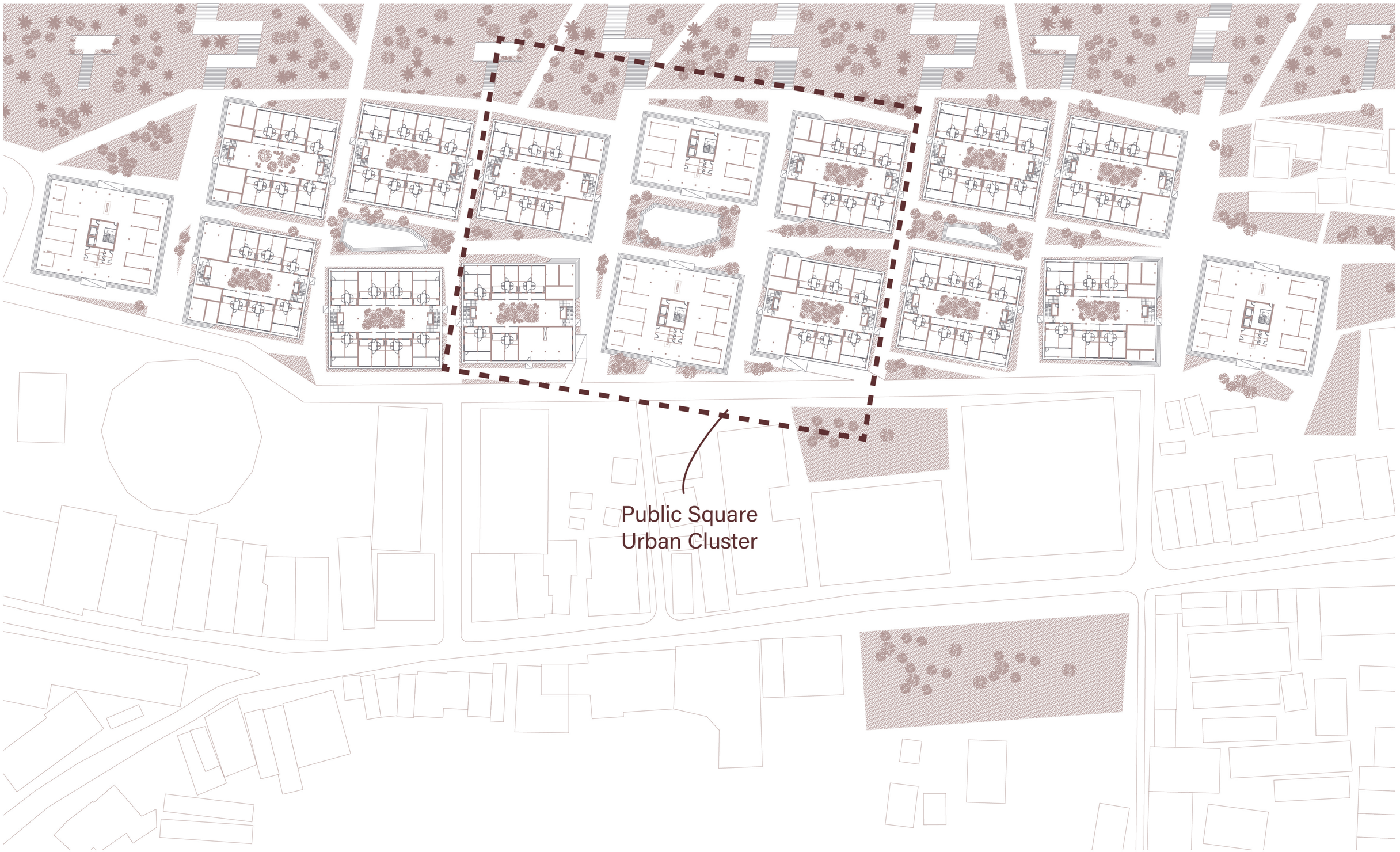
Urban Strategy | Plan Groundfloor



Urban Strategy | Urban Cluster Strategy



Urban Strategy | Urban Cluster Strategy















Public square Salt Lake City (City Centre Mall, Kolkata, n.d.-b)

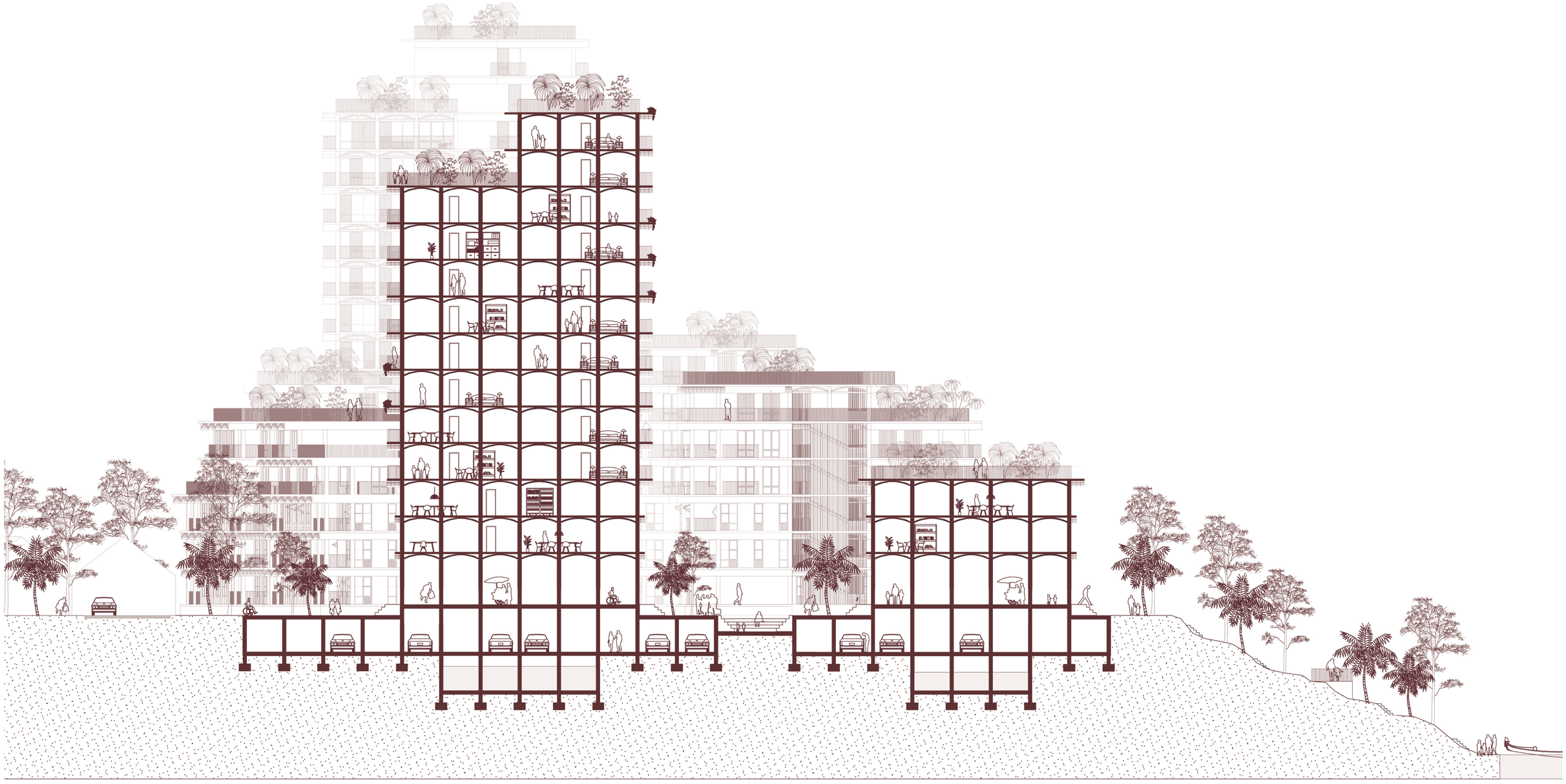
Urban Cluster Strategy | Plan Groundfloor



Urban Cluster Strategy | Parking



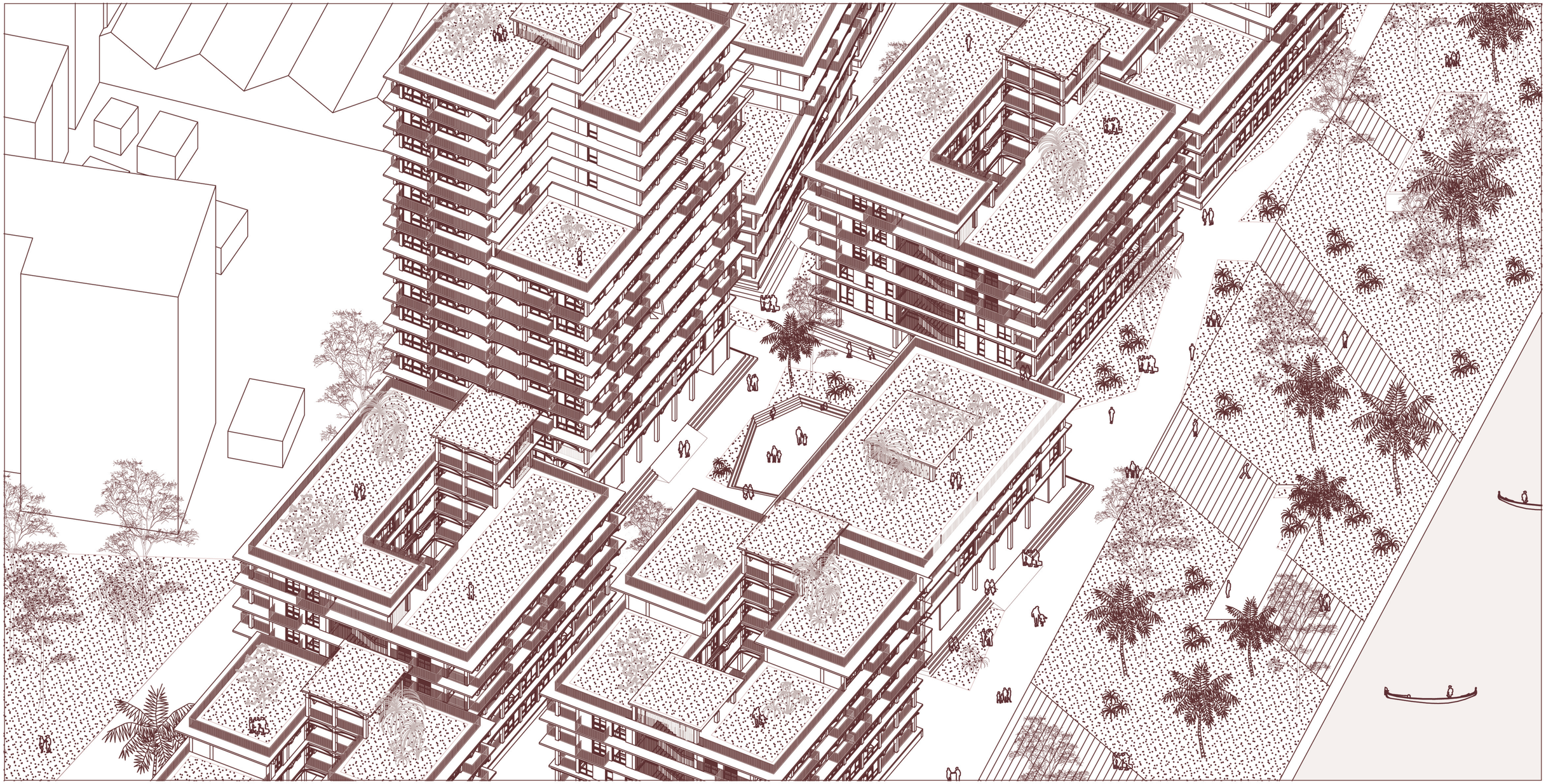
Urban Cluster Strategy | Section Public Square



Urban Cluster Strategy | Elevation Tower and Block

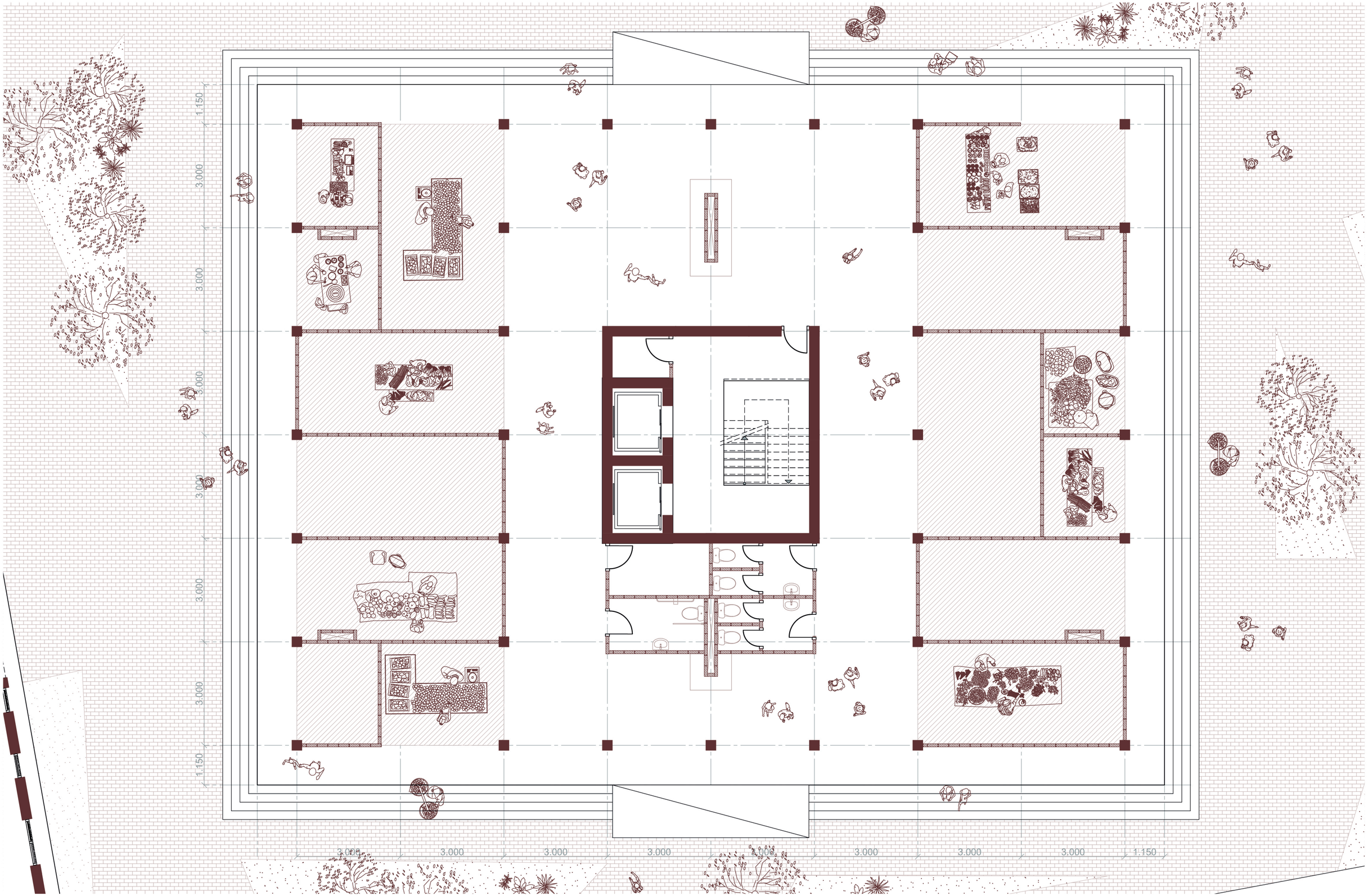


Urban Cluster Strategy | Axonometric View Public Square

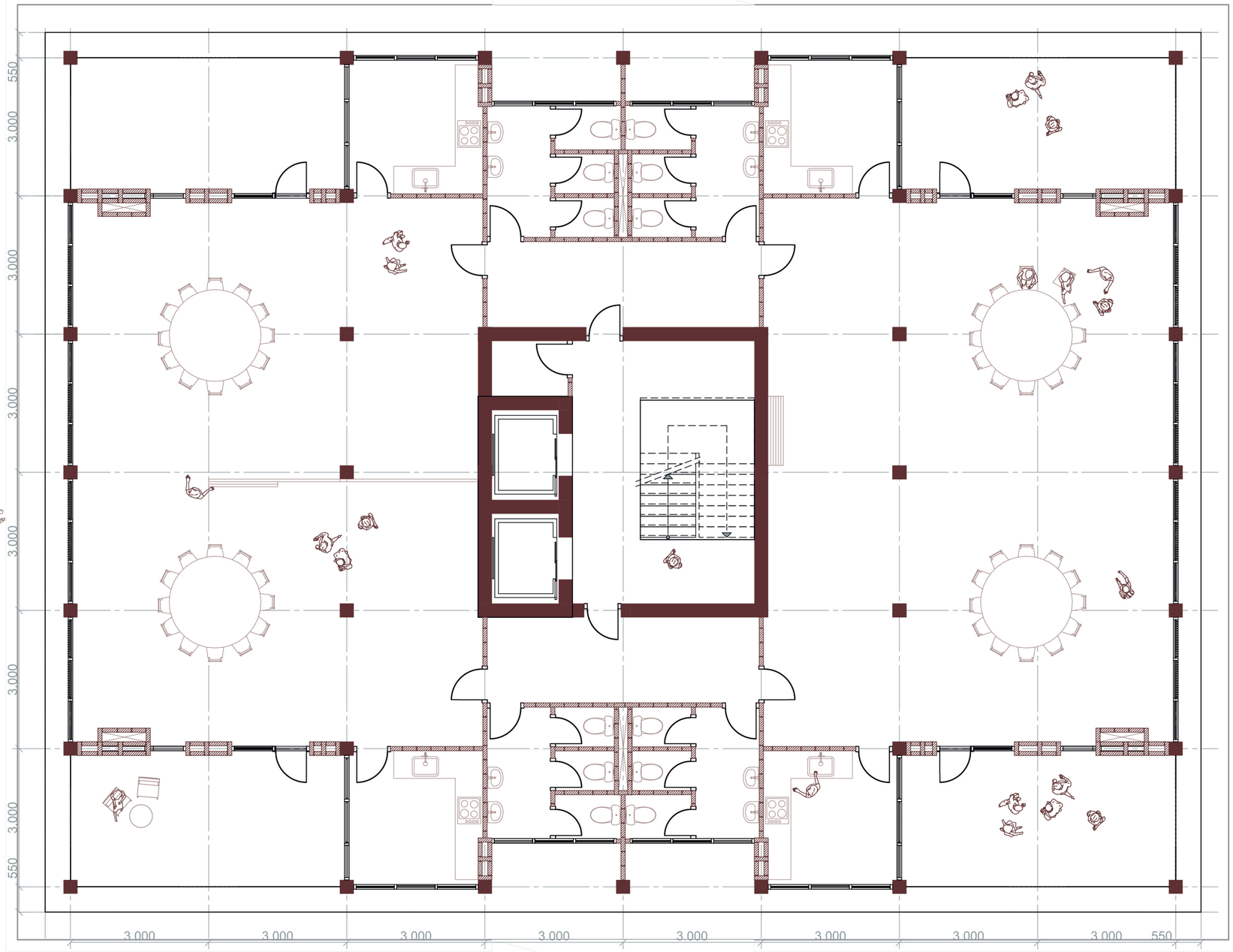




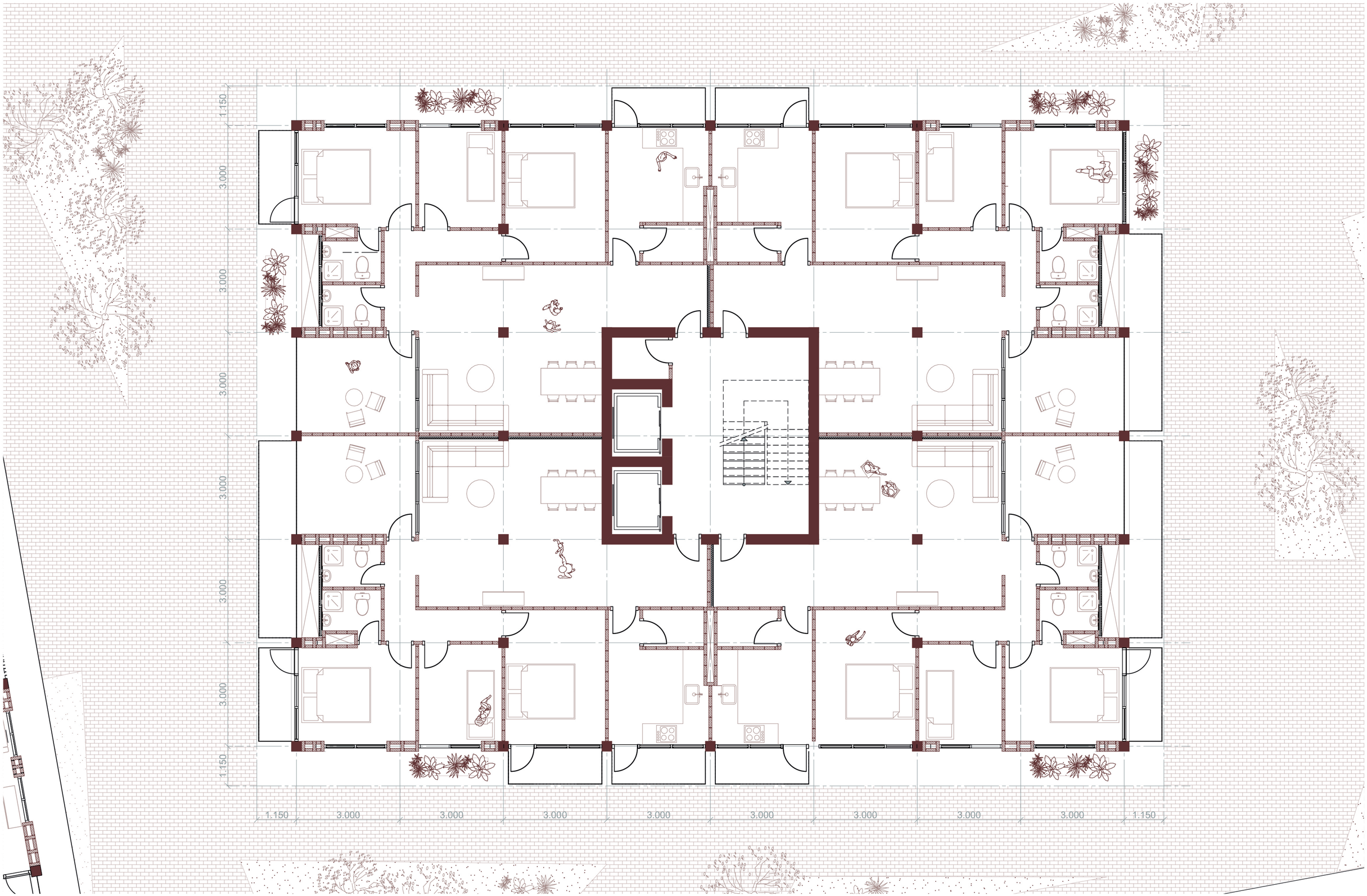
Cluster Strategy | Plan Groundfloor: Shops



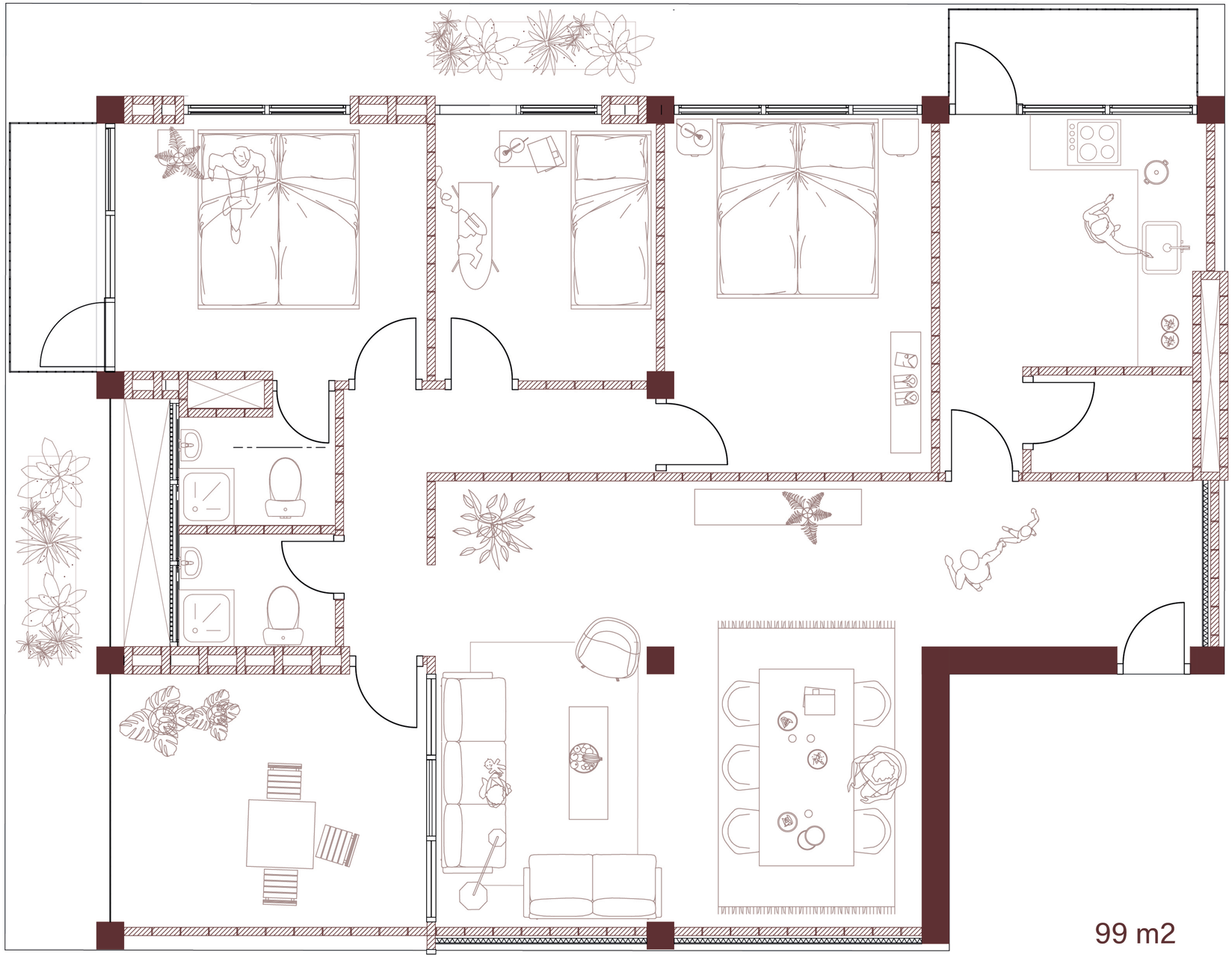
Cluster Strategy | Plan 2nd Floor: Workshop Spaces



Cluster Strategy | Plan 8th Floor: Middle-Income Housing

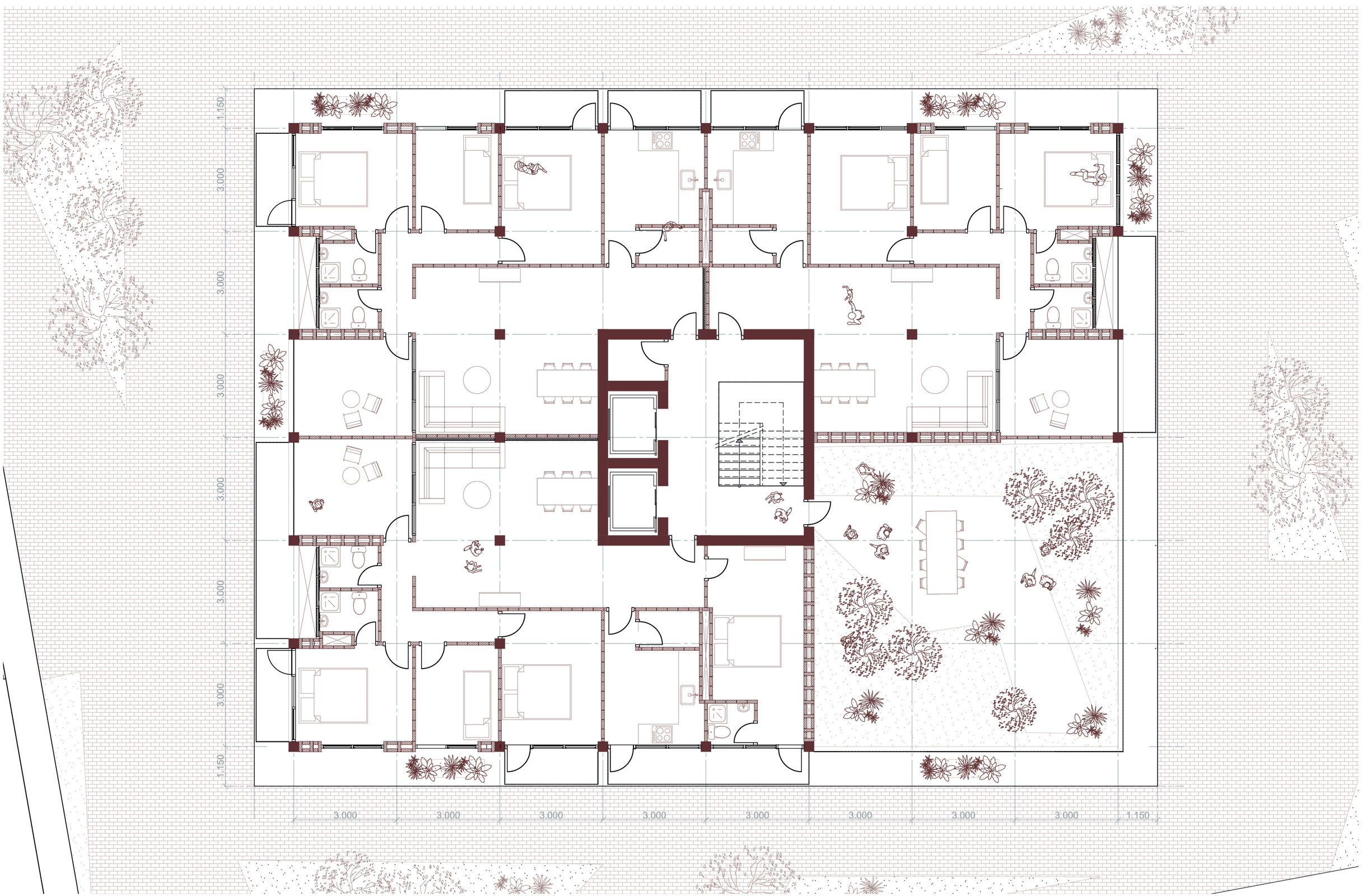


Unit Strategy | Plan Middle-Income Housing

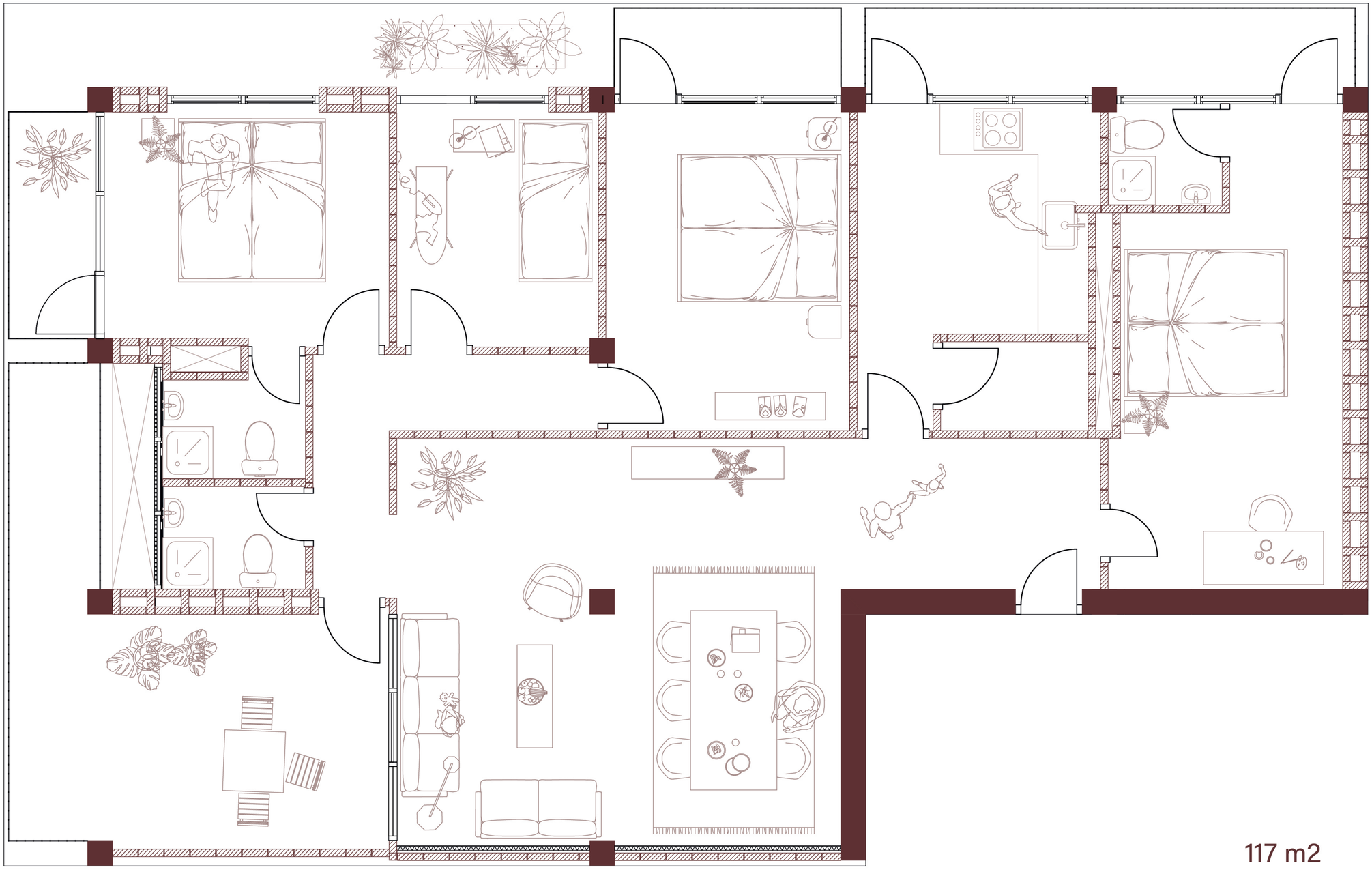


99 m2

Cluster Strategy | Plan 10th Floor: Middle and High-Income Housing

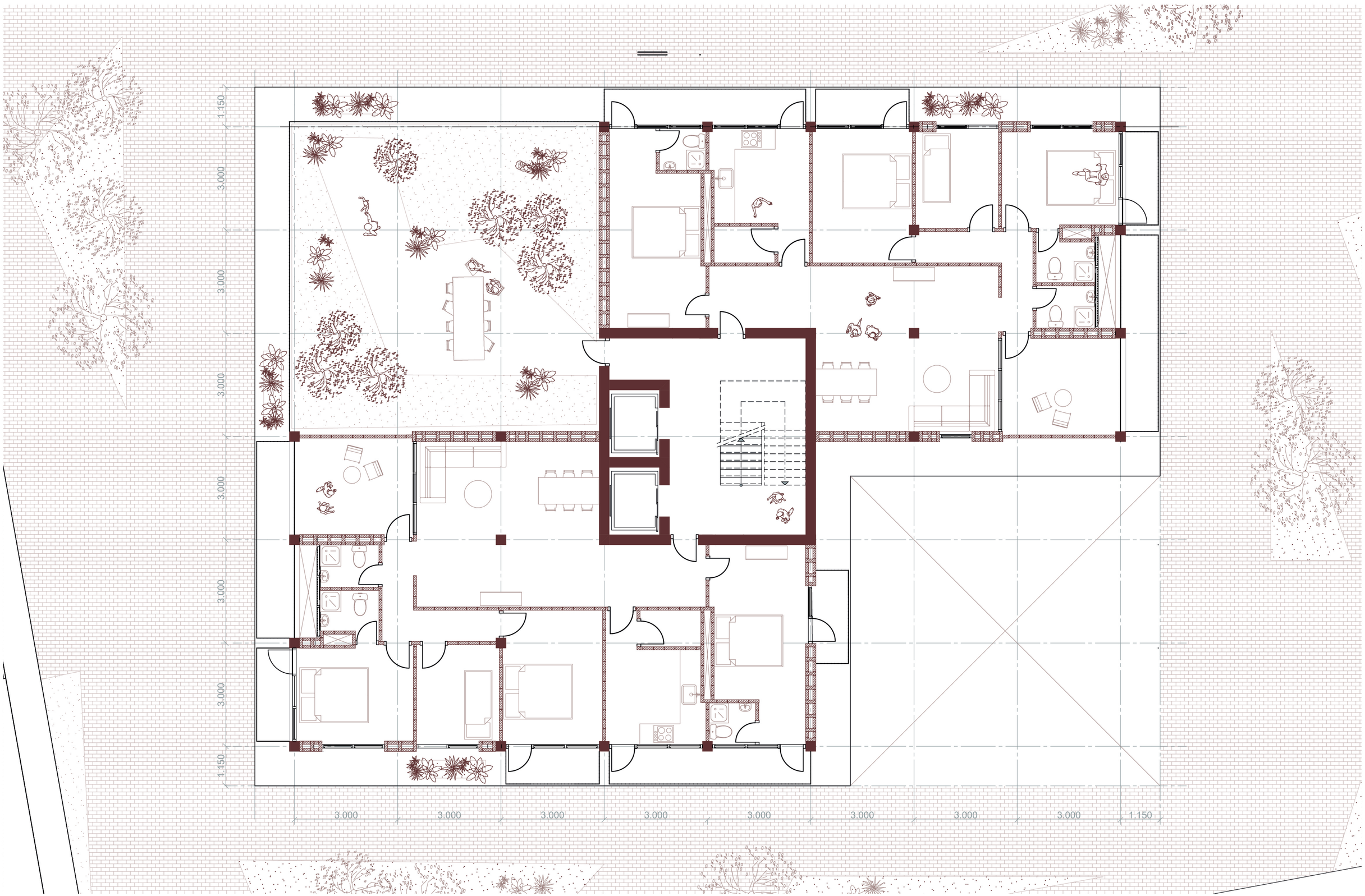


Unit Strategy | Plan High-Income Housing

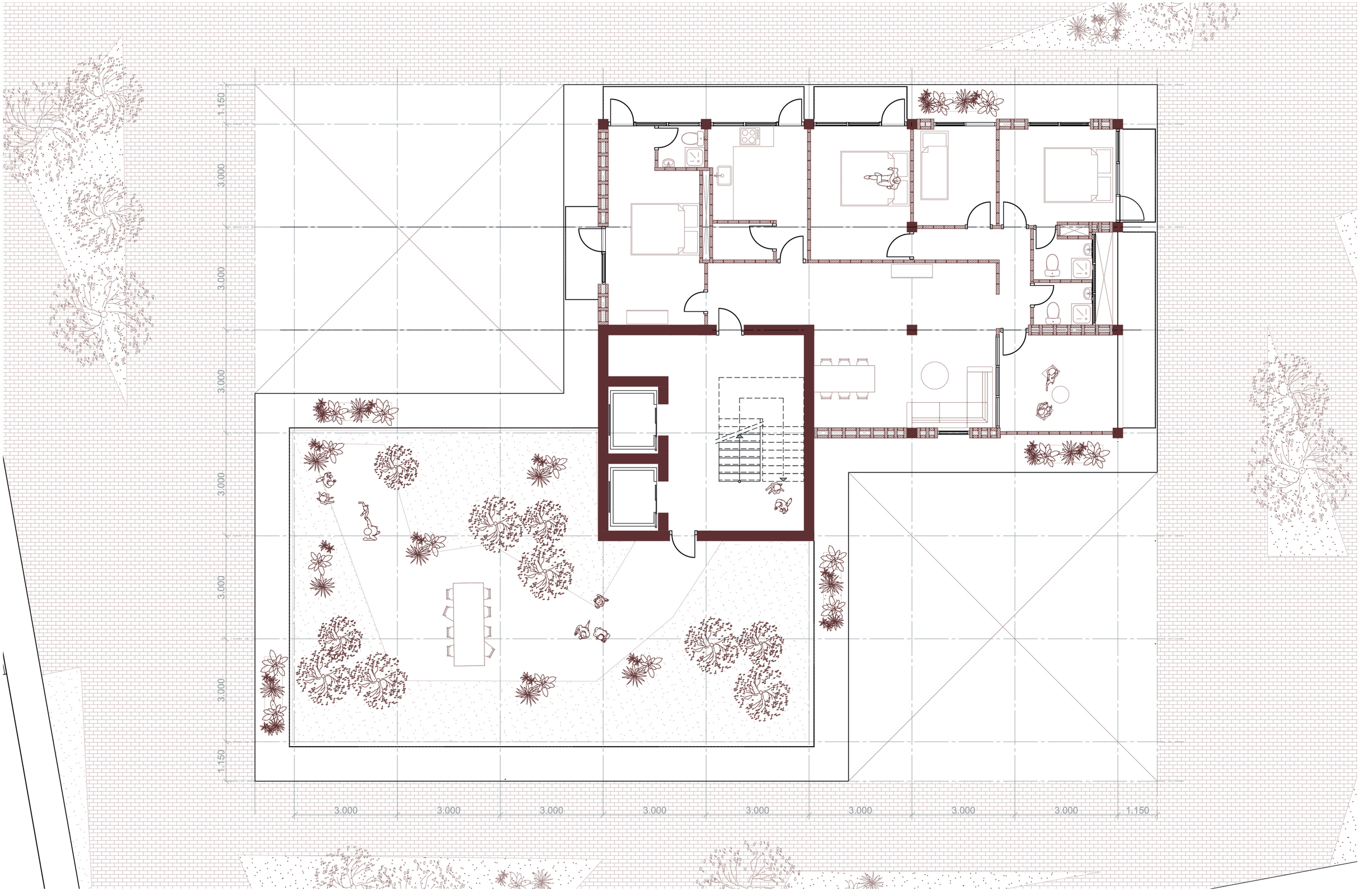


117 m2

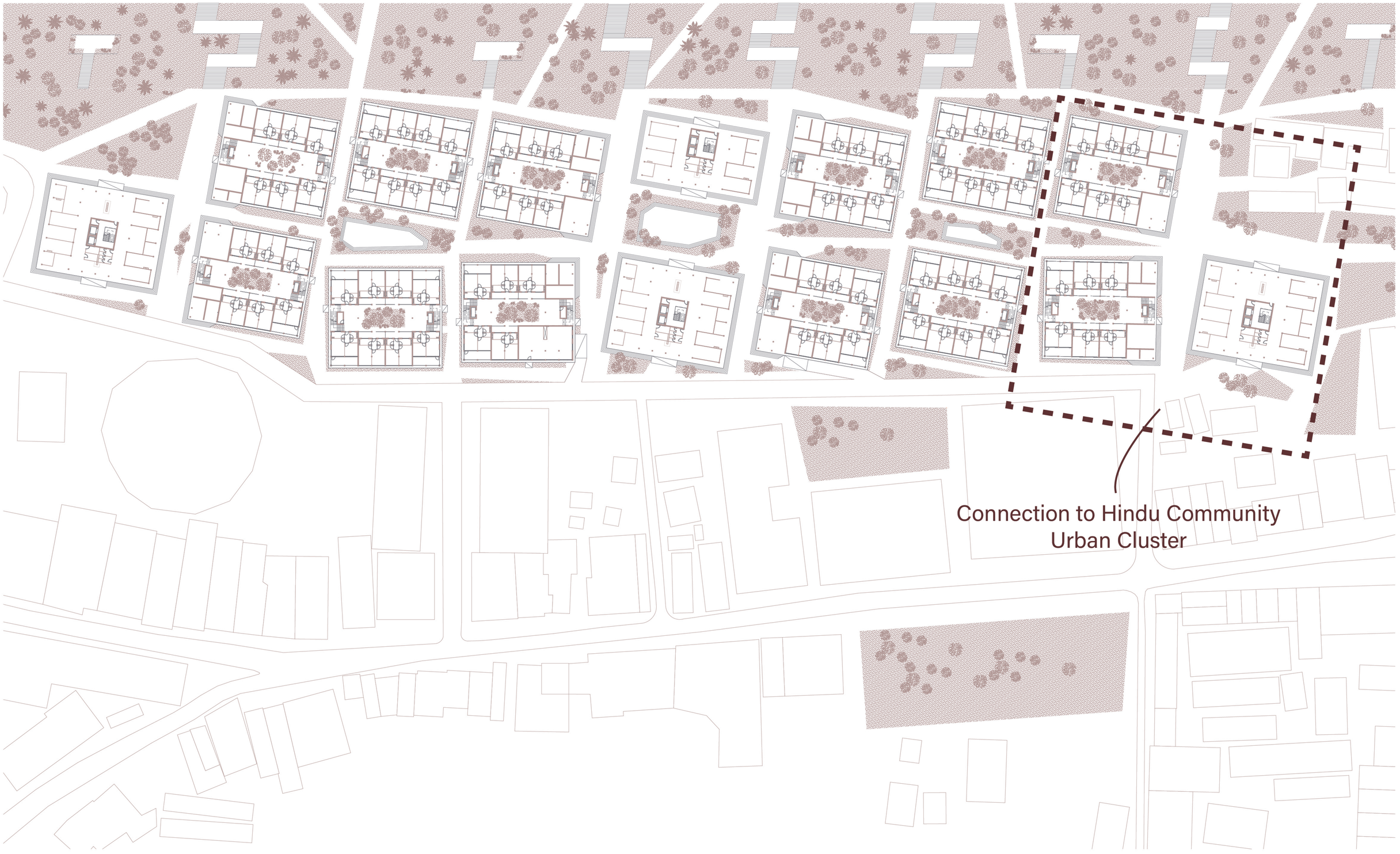
Cluster Strategy | Plan 12th Floor: High-Income Housing



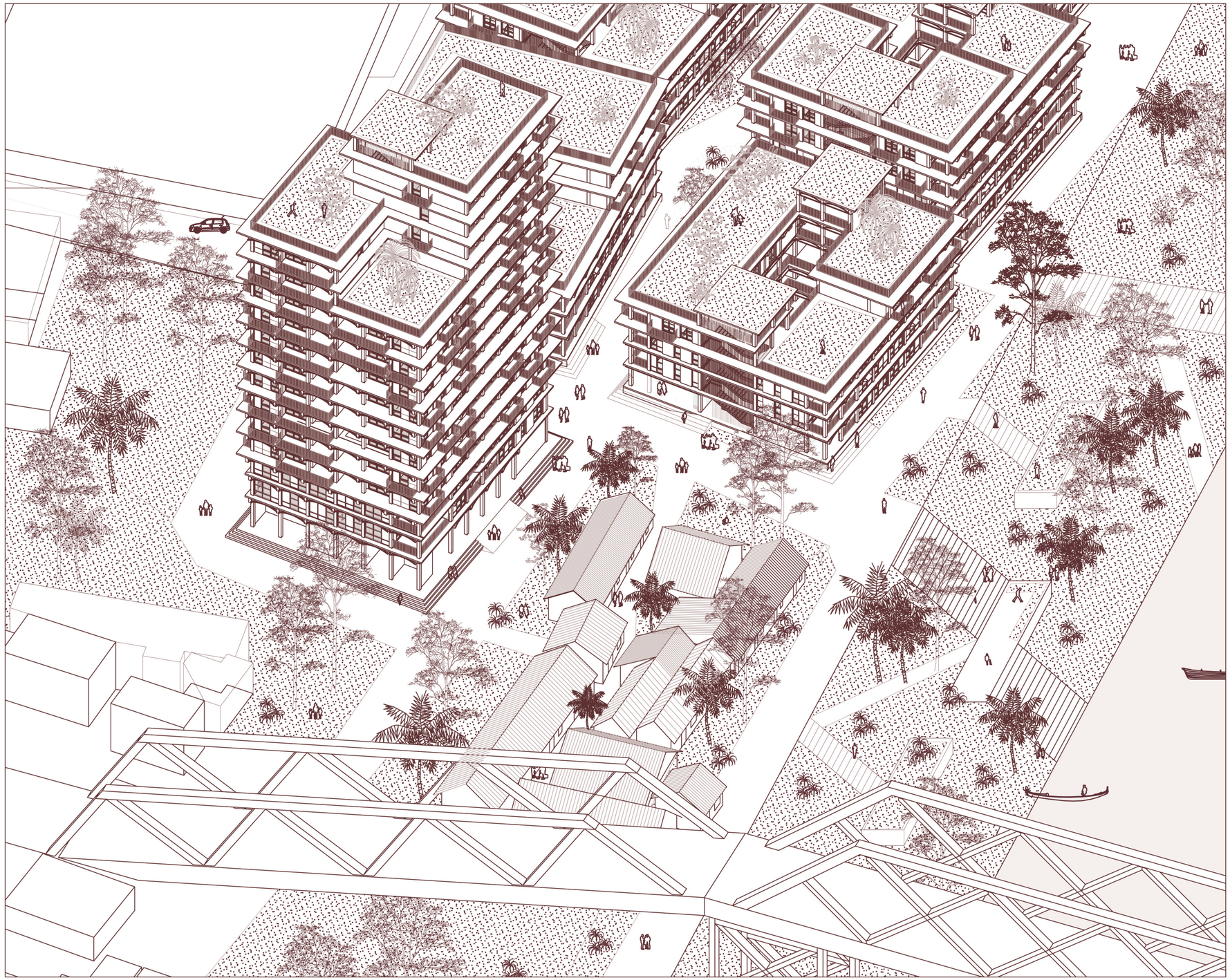
Cluster Strategy | Plan 14th Floor: High-Income Housing



Urban Strategy | Urban Cluster Strategy



Urban Cluster Strategy | Axonometric View Hindu Community

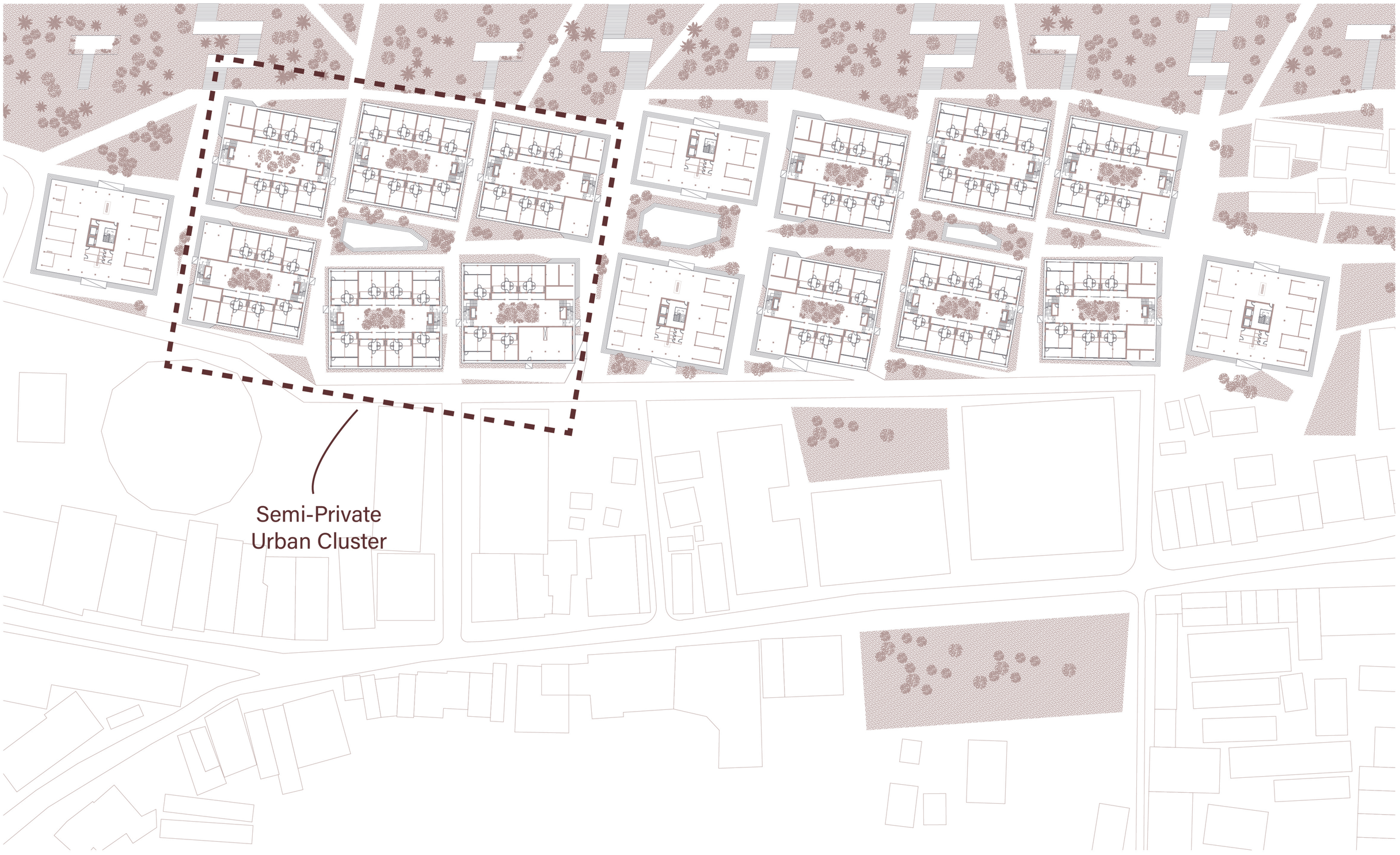








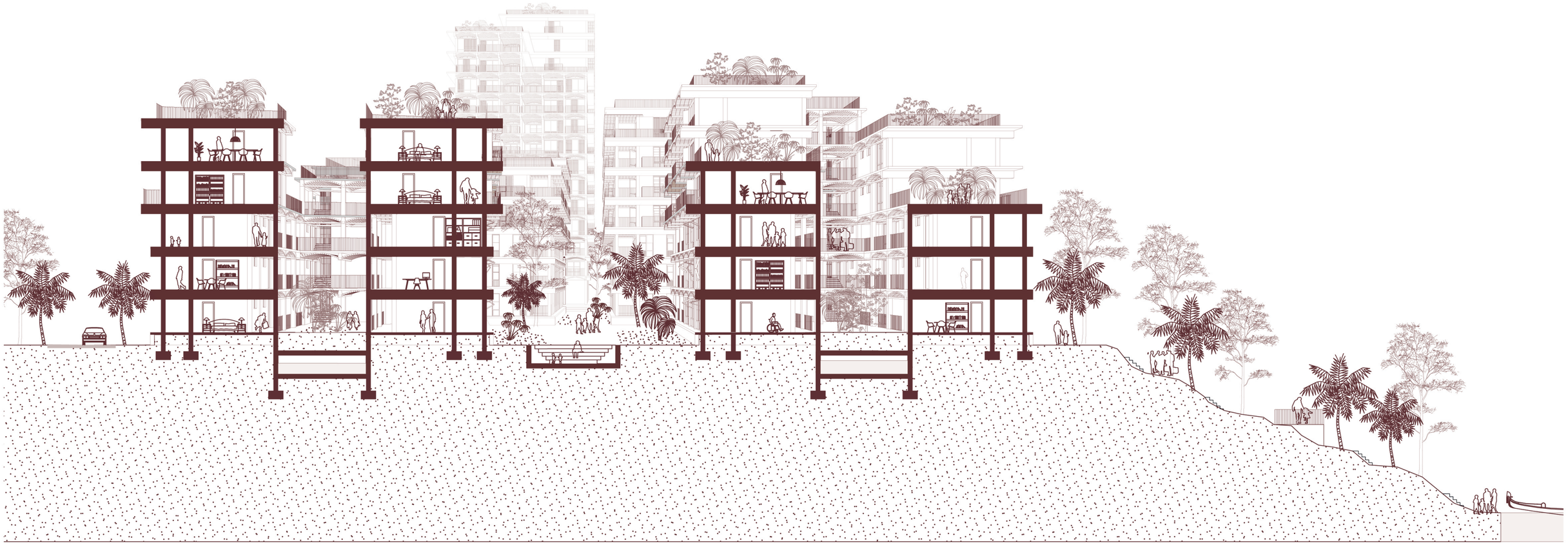
Urban Strategy | Urban Cluster Strategy



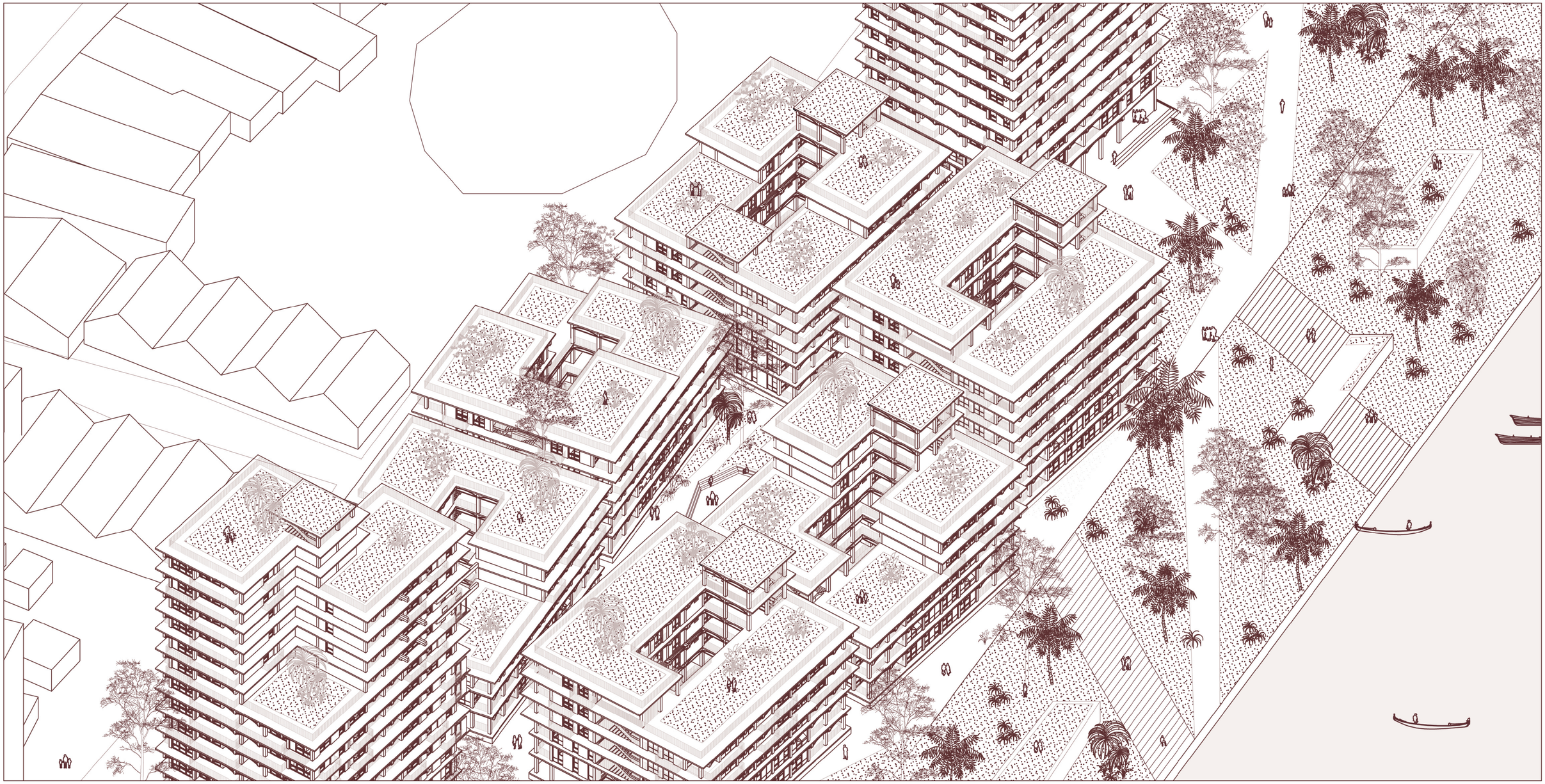
Urban Cluster Strategy | Plan Groundfloor



Urban Cluster Strategy | Section Between Housing Blocks



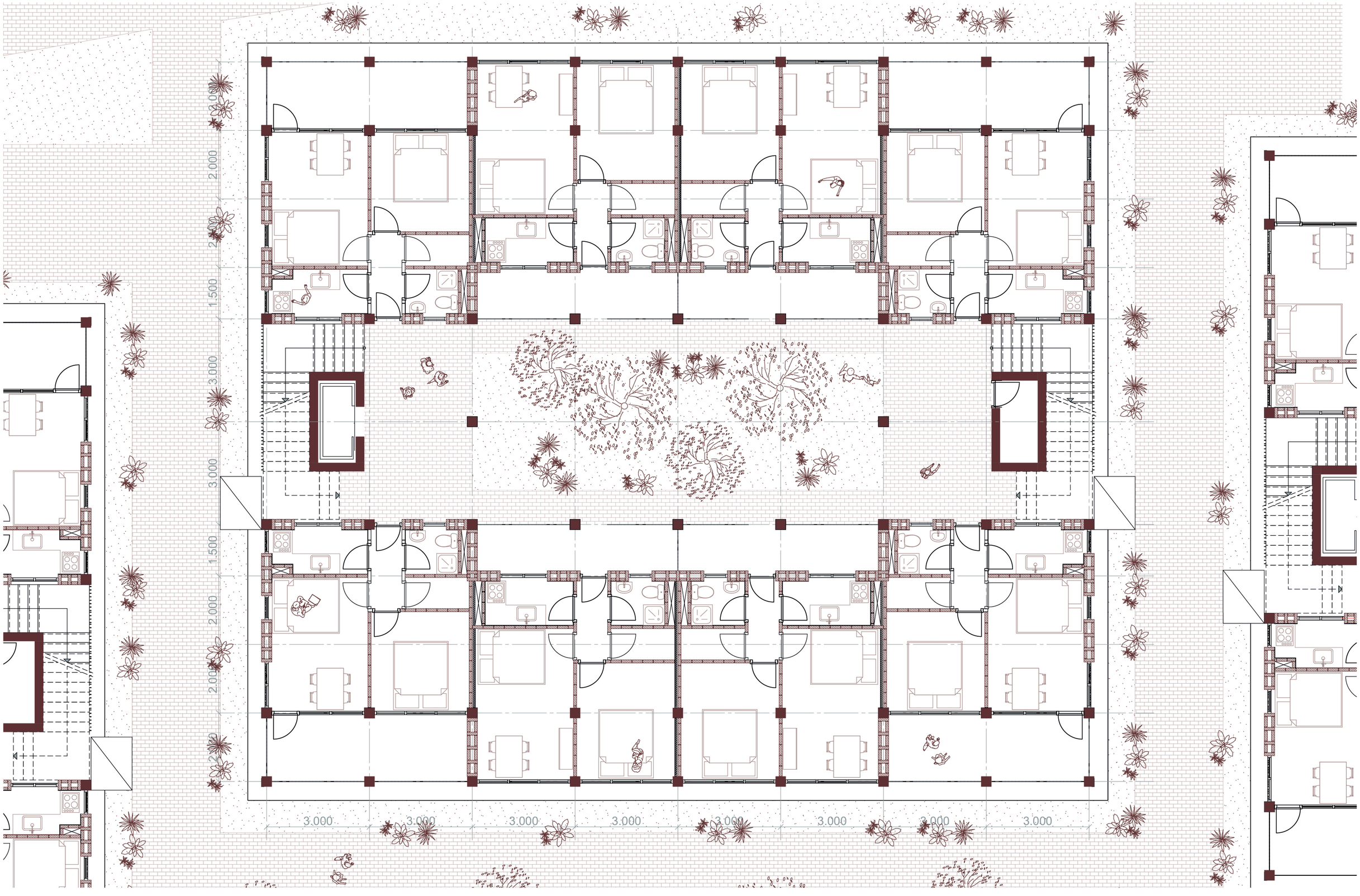
Urban Cluster Strategy | Axonometric View Between Housing Blocks



Urban Cluster Strategy | Impression Between Housing Blocks



Cluster Strategy | Plan Groundfloor: Low-Income Housing

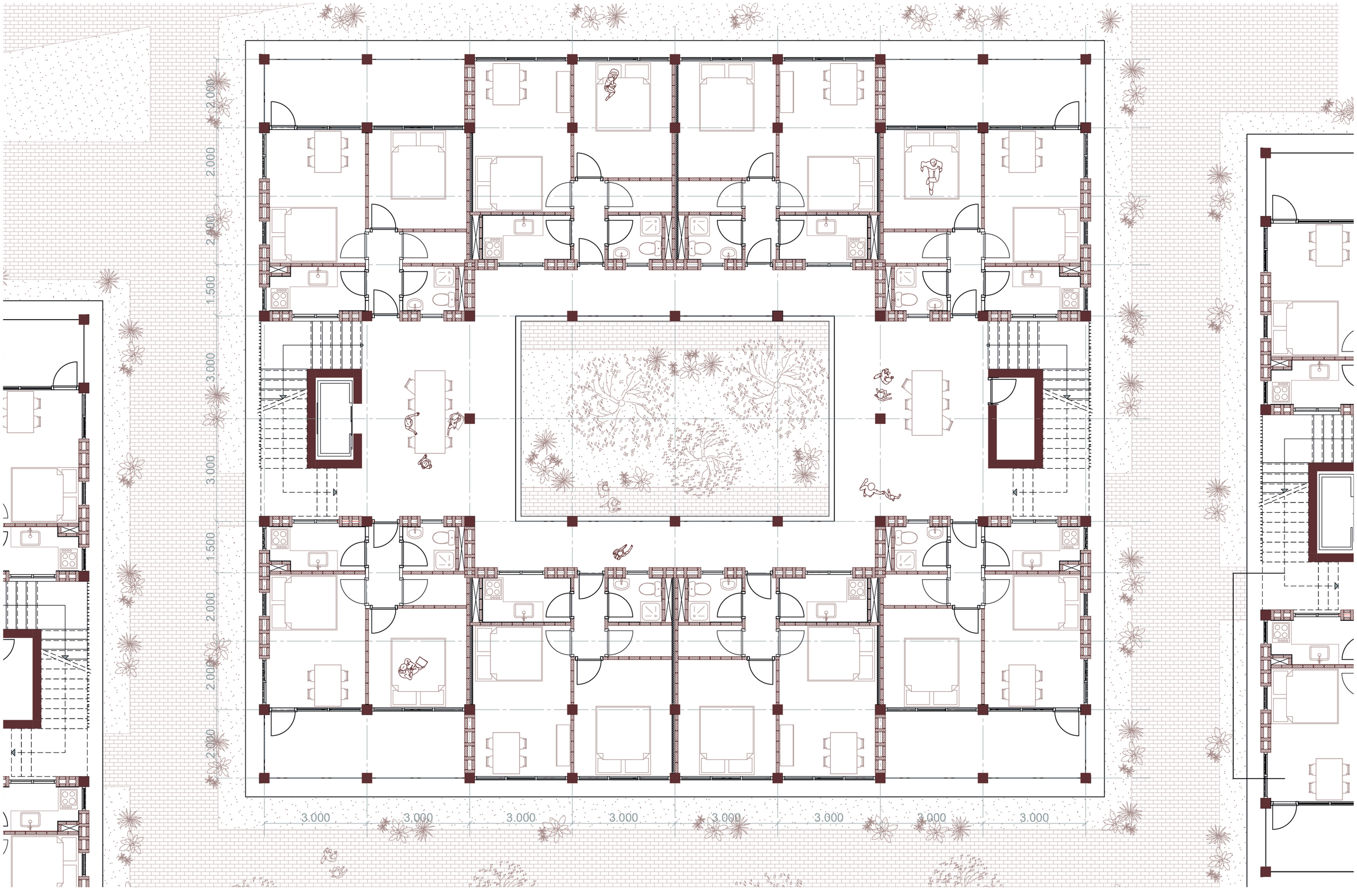


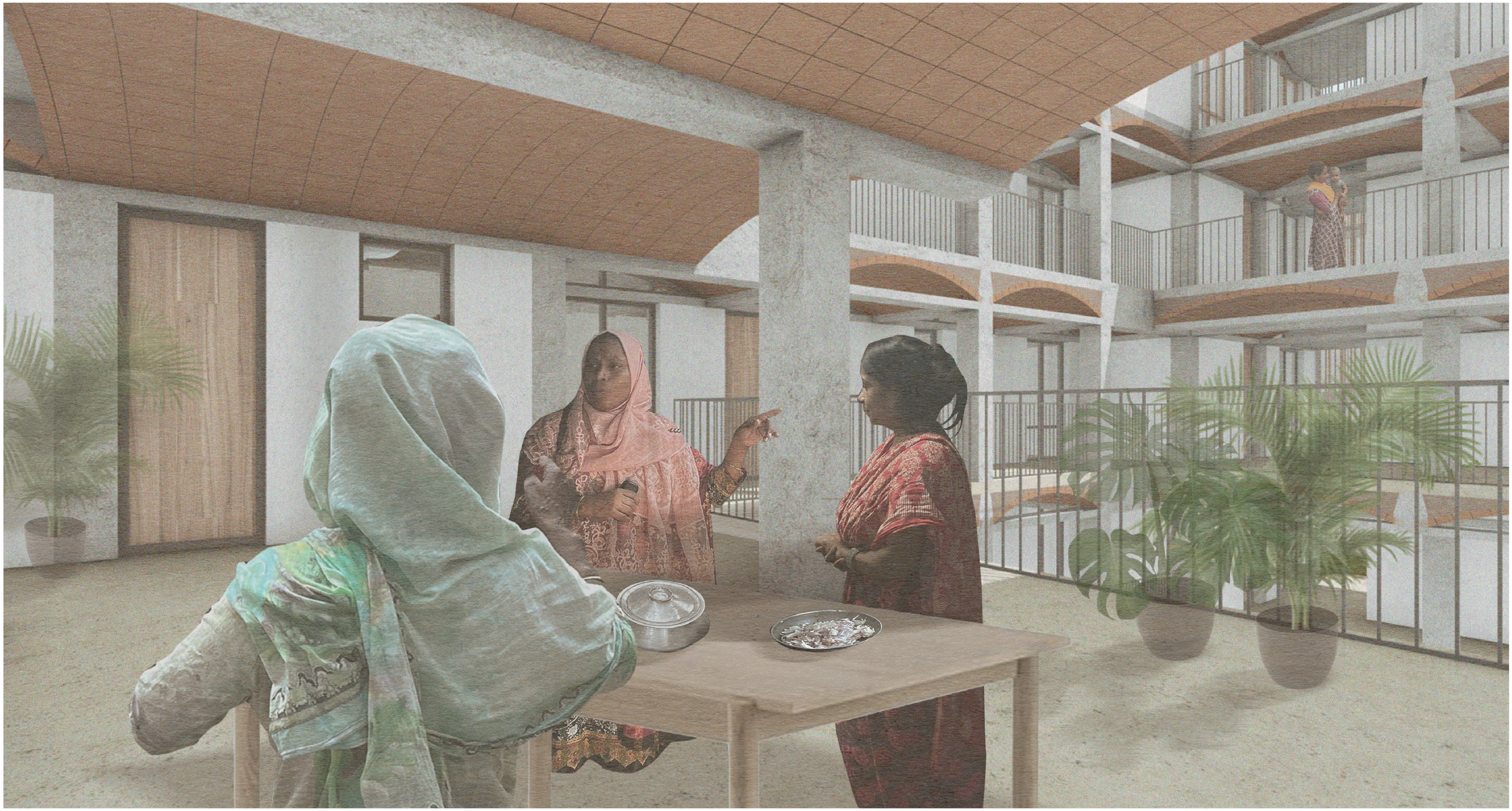
Cluster Strategy | Impression Courtyard



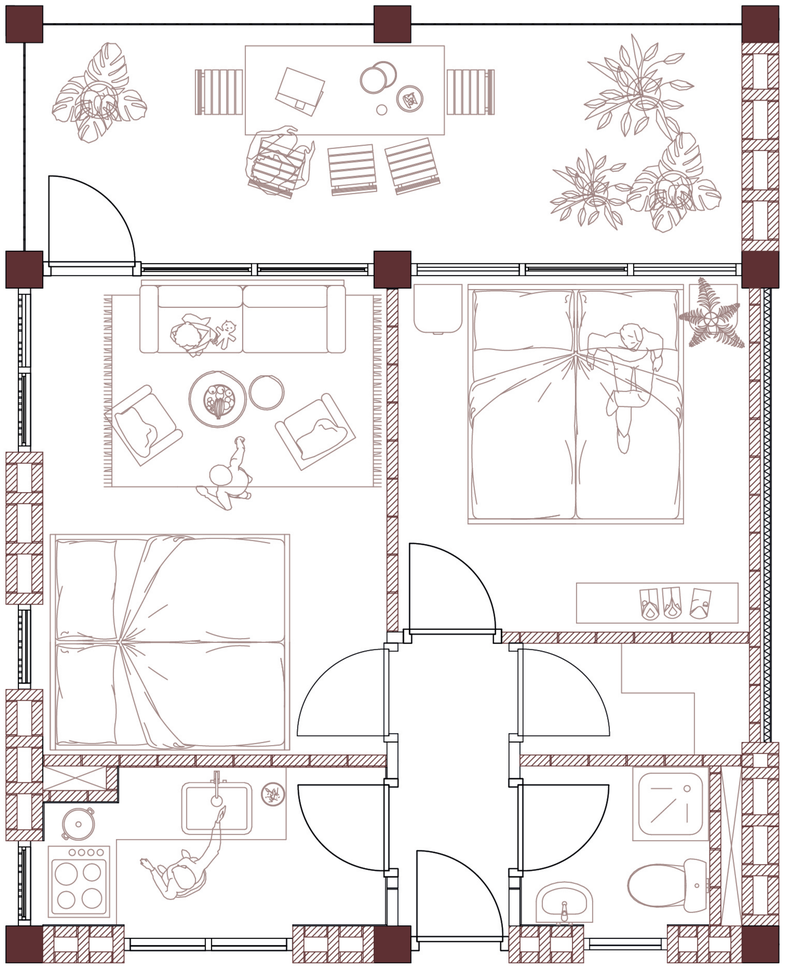


Cluster Strategy | Plan 1st Floor: Low-Income Housing

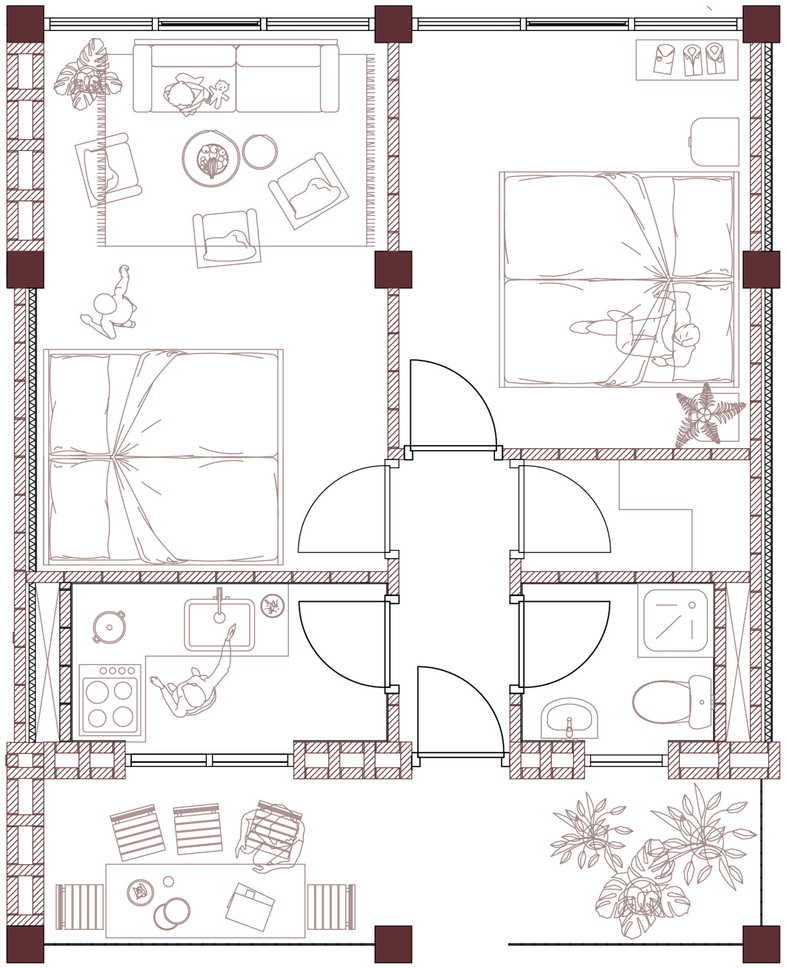




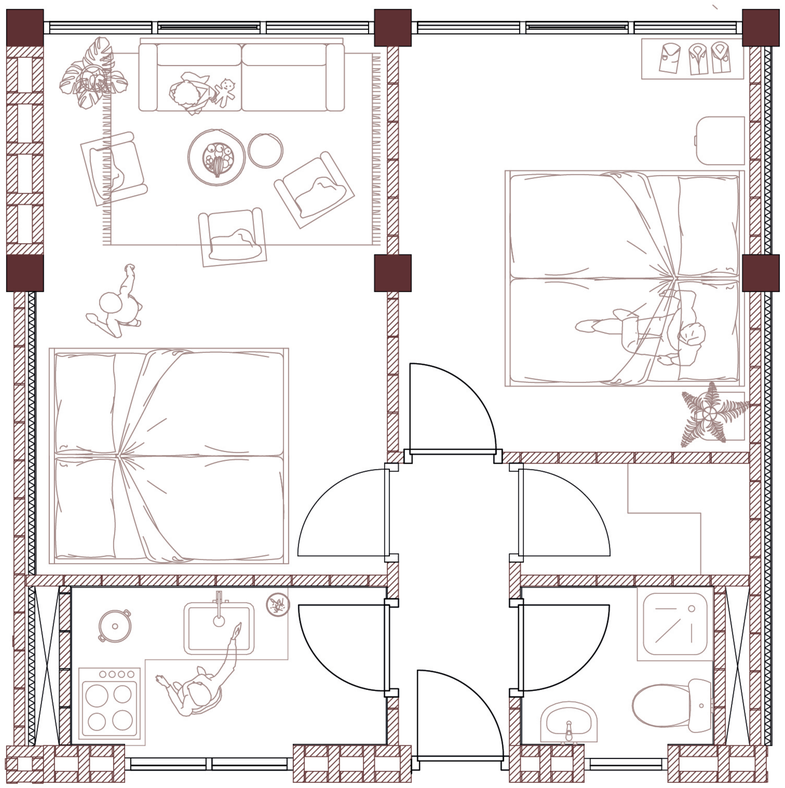
Unit Strategy | Plan Low-Income



45 m2



Unit Strategy | Plan Low-Income



36 m2

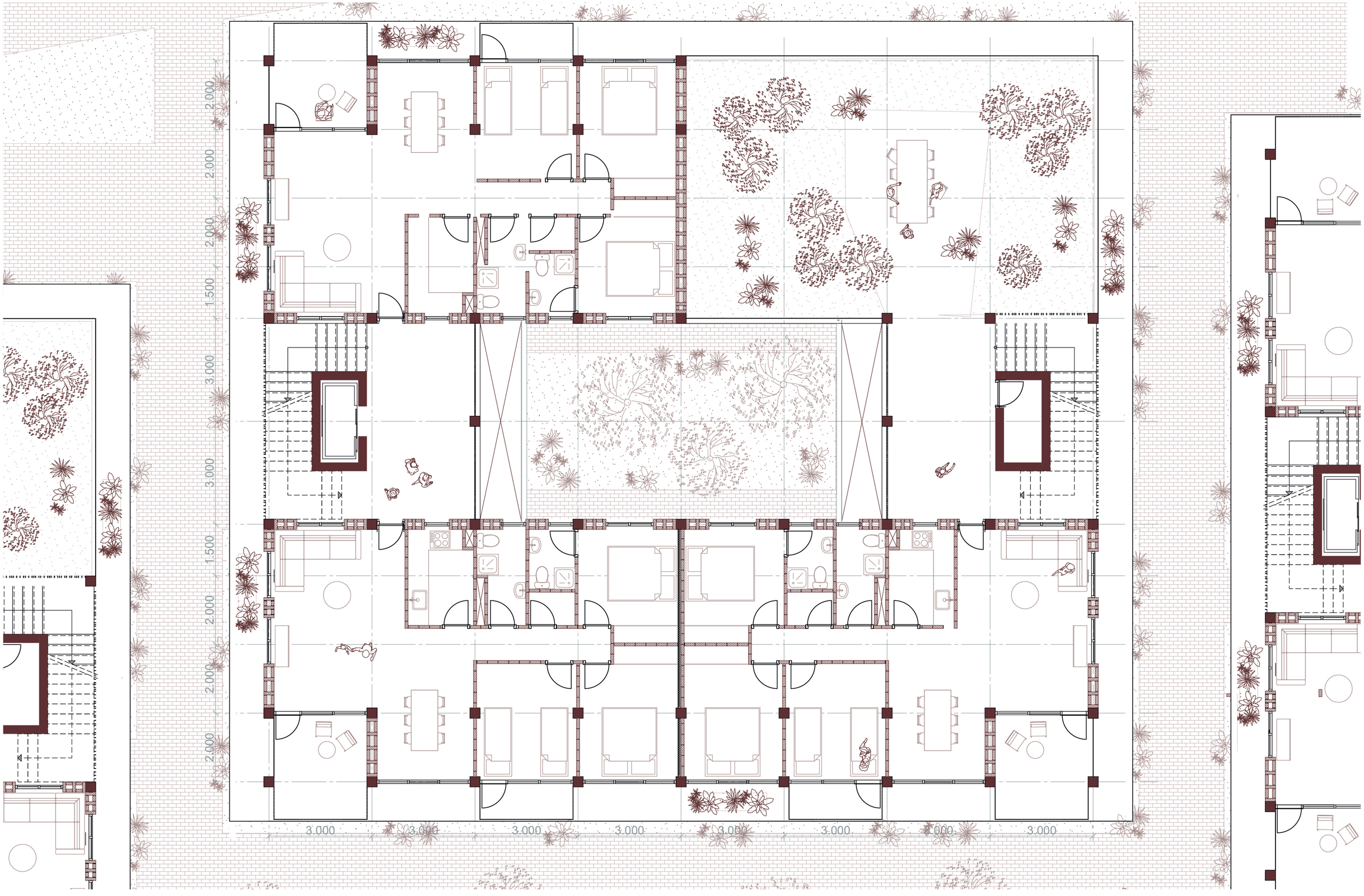




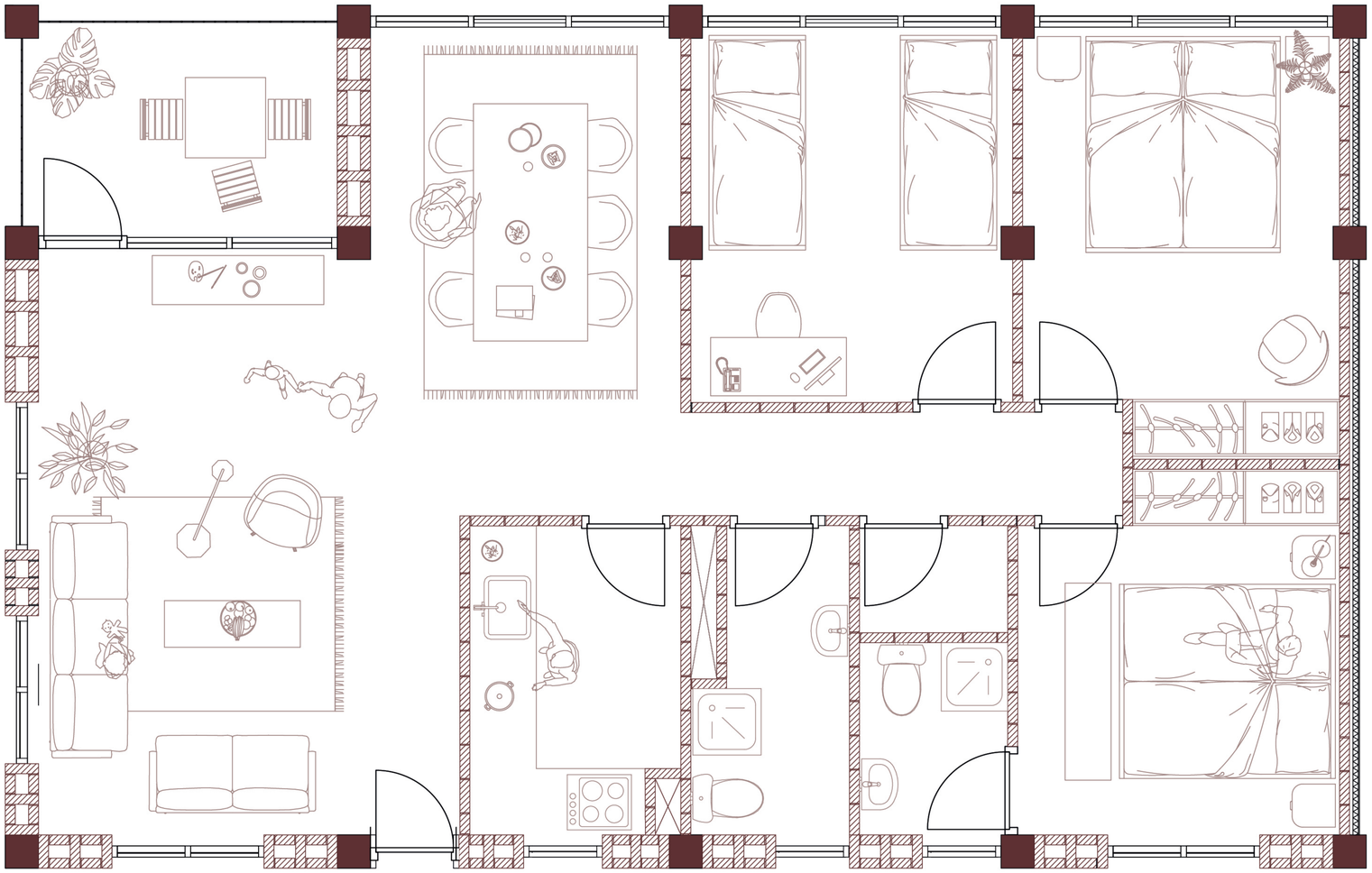
Urban Cluster Strategy | 3rd Floor Housing Blocks: Middle-Income Housing



Cluster Strategy | Plan 3rd Floor: Low-Income Housing and Rooftop



Unit Strategy | Plan Middle-Income



90 m2



Building Technology

Climate
Watermanagment
Facade
Structure
Details

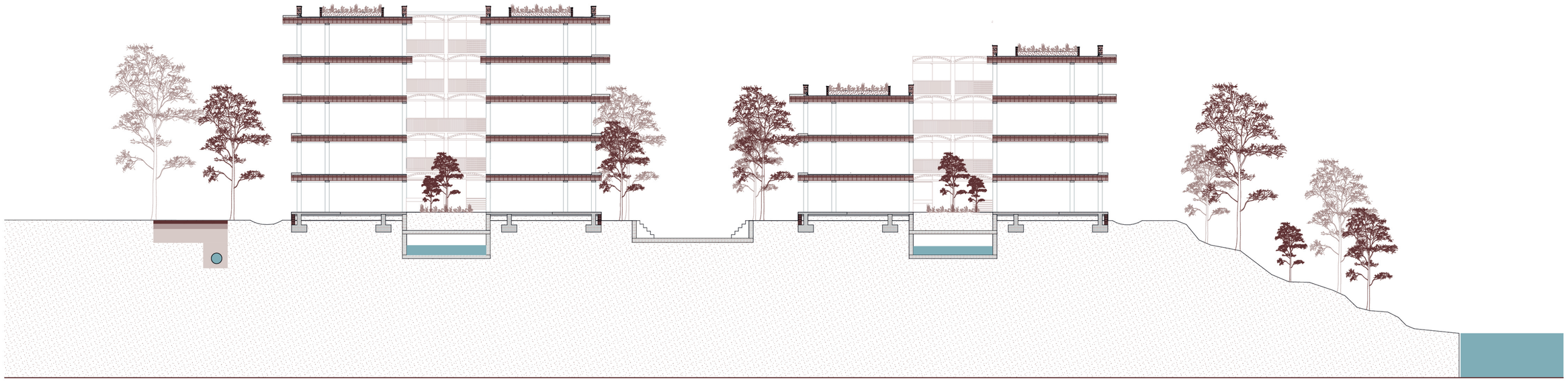


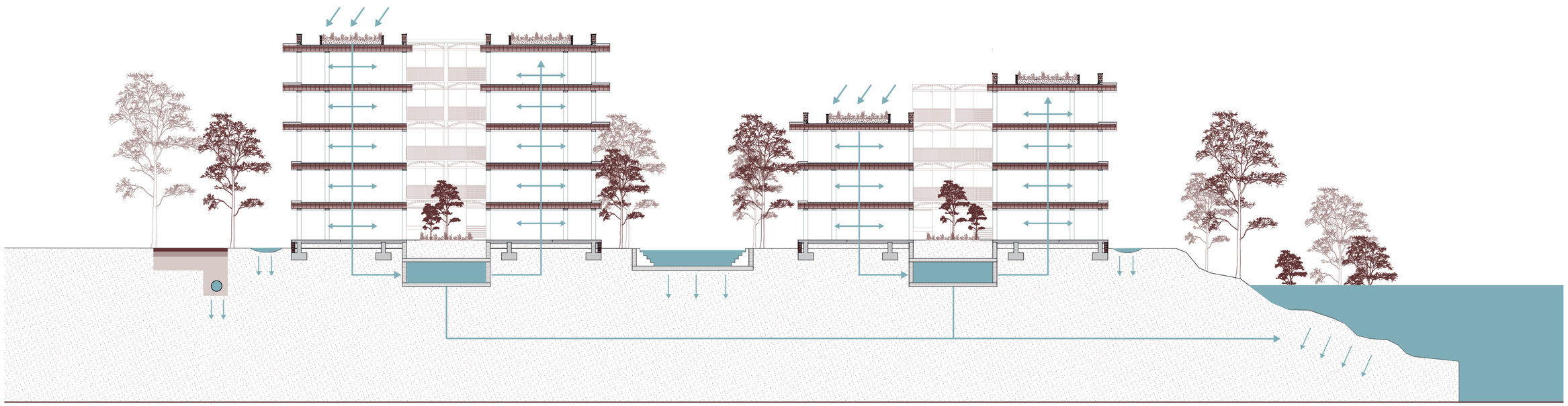


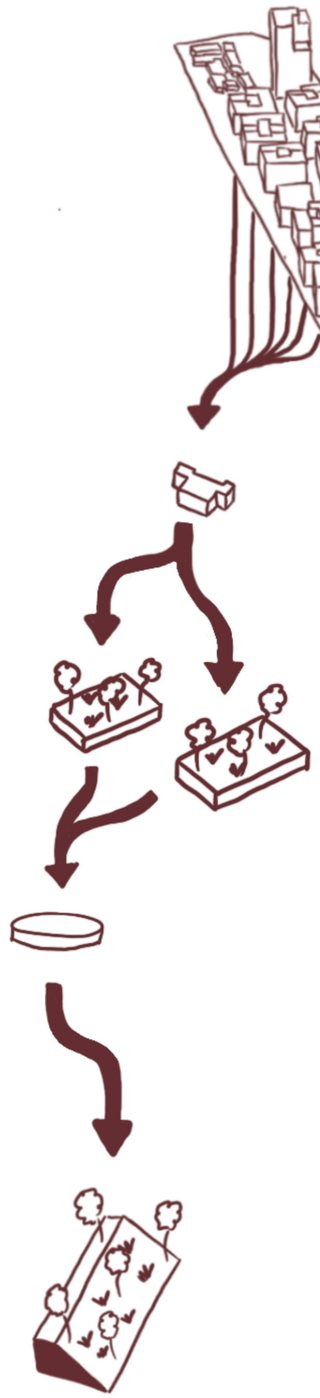


Watersquare Benthemplein (own images)

Watermanagment | Section







181643 liter/day
entering the system

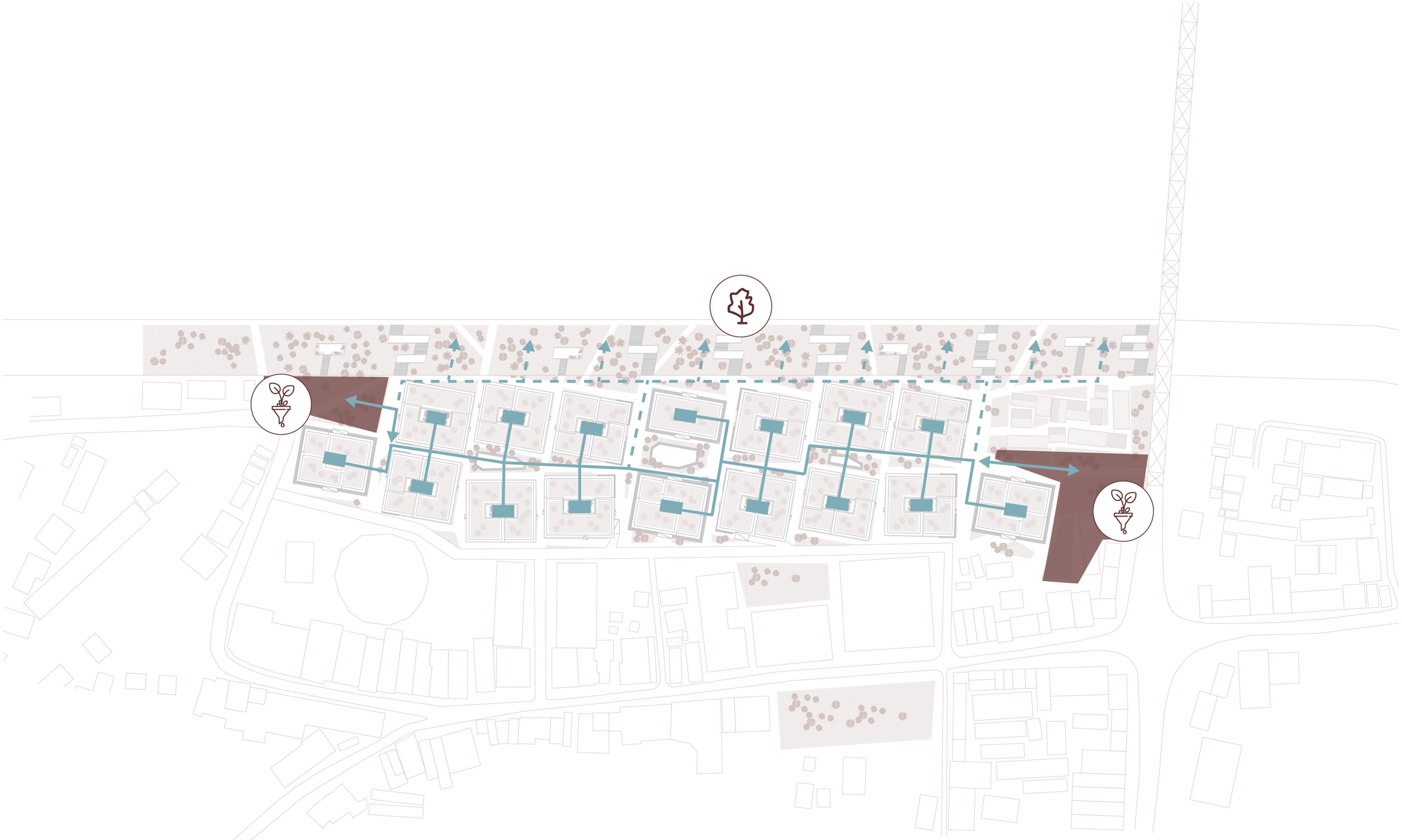
SepticTank
anaerobic treatment

Constructed Wetlands
1215 m2

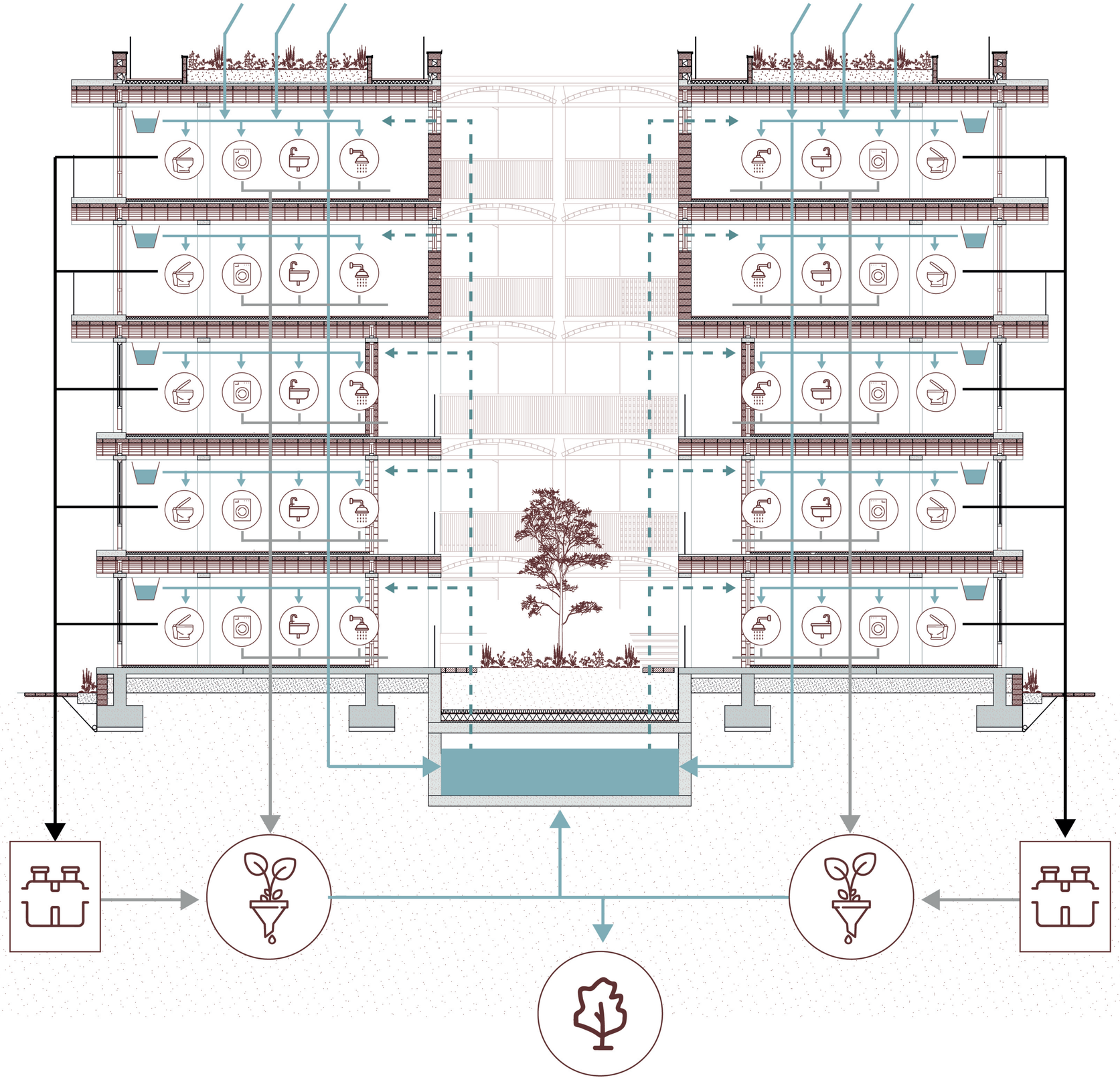
Watertanks
under buildings

Discharge Riverbank
2800 m2

Watermanagment | Urban Scale



Watermanagment | Building Scale

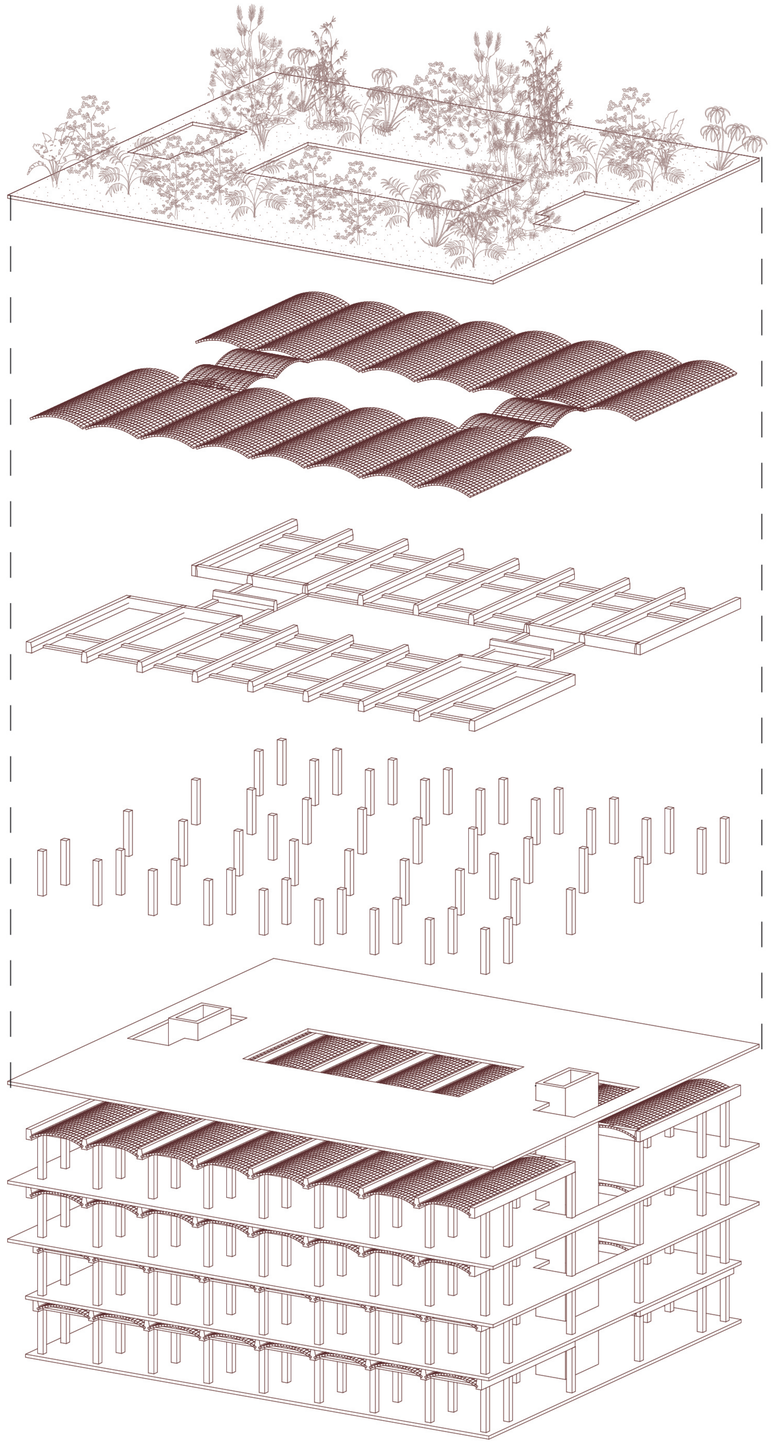






Concrete beams and brick vaults, Villa Sarabhai (Fonck, n.d.-b)

Structure | Axo

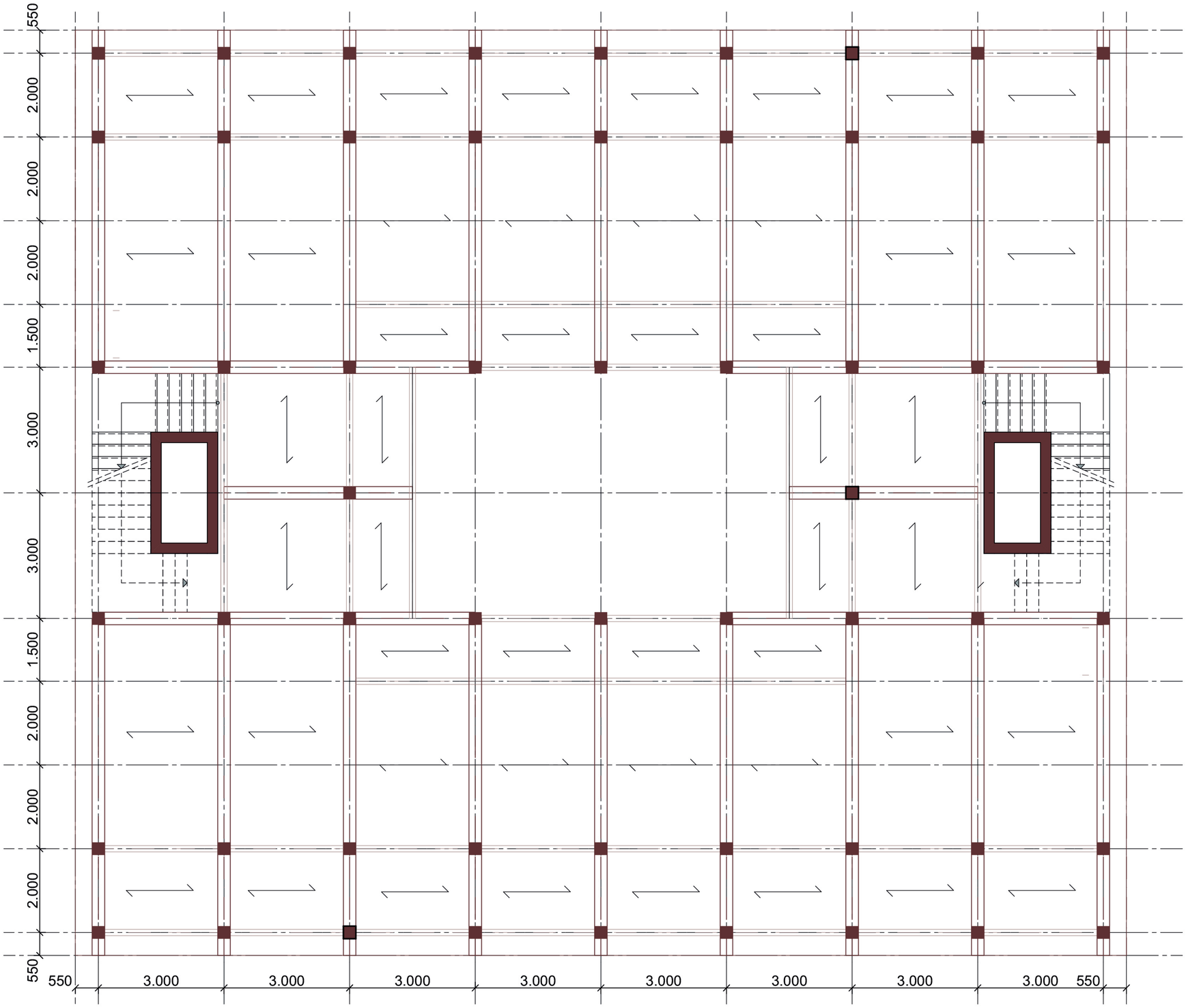


Vault
compressed earth block

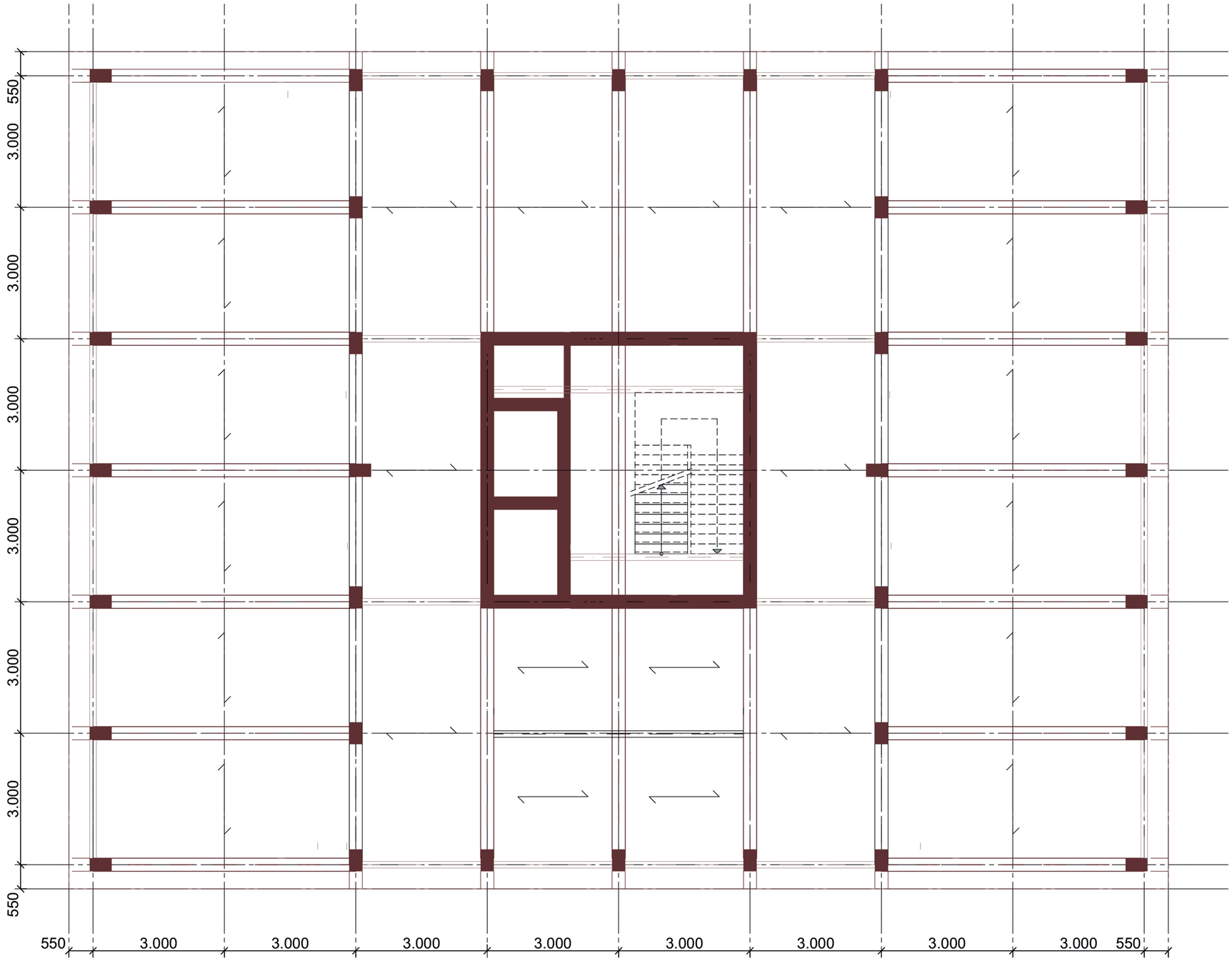
(tie)beams
concrete

Columns
concrete

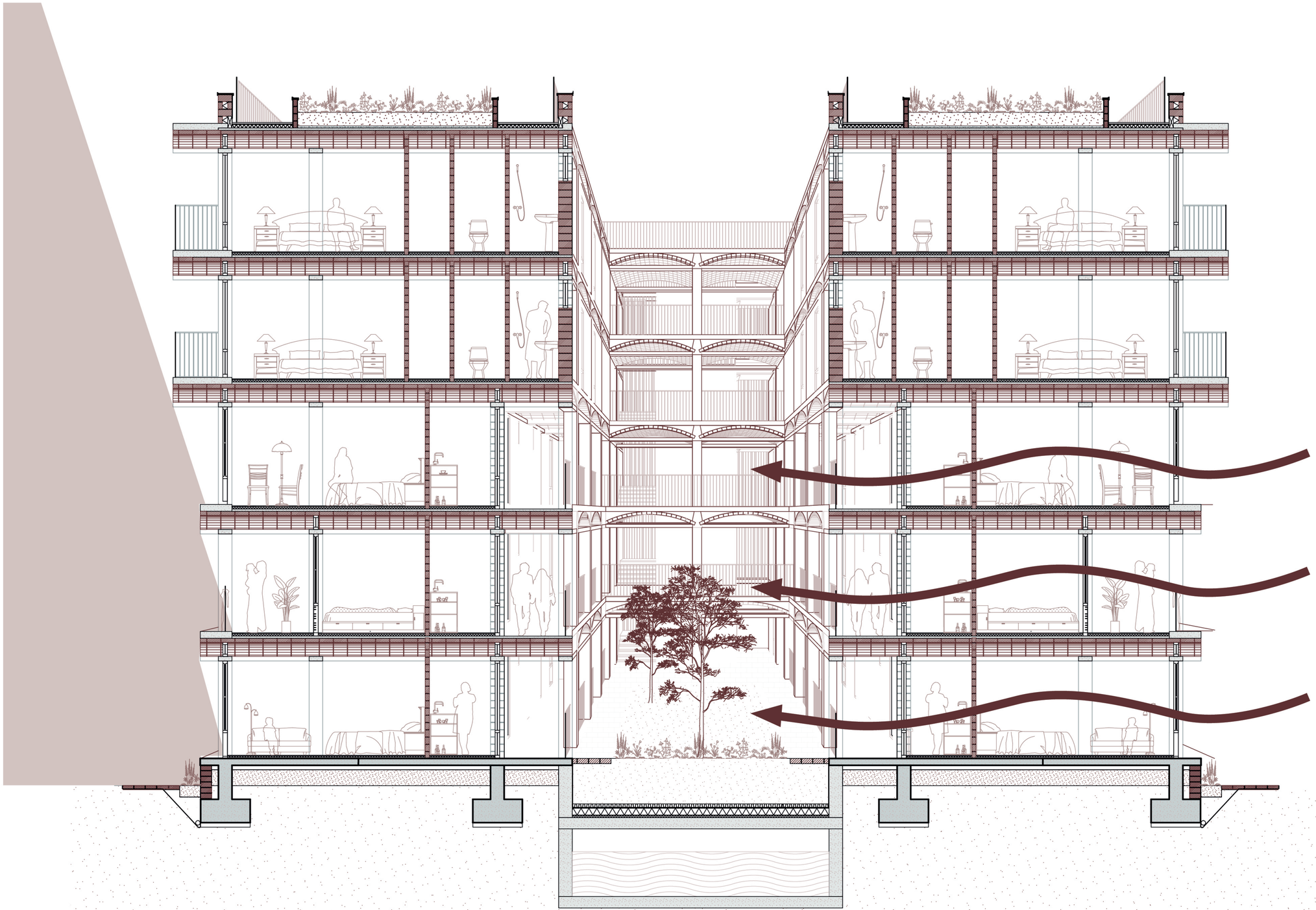
Structure | Technical Plan Block Building



Structure | Technical Plan Tower



Section | Block Building



Facade | Materials Construction



Vault
compressed earth block

(tie)beams
concrete

Columns
concrete

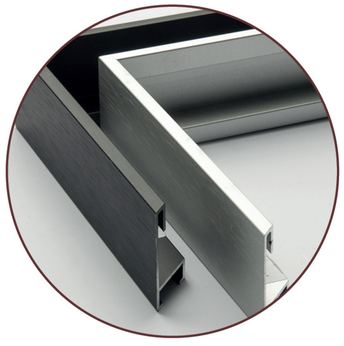
Vault
compressed earth block (CEB)



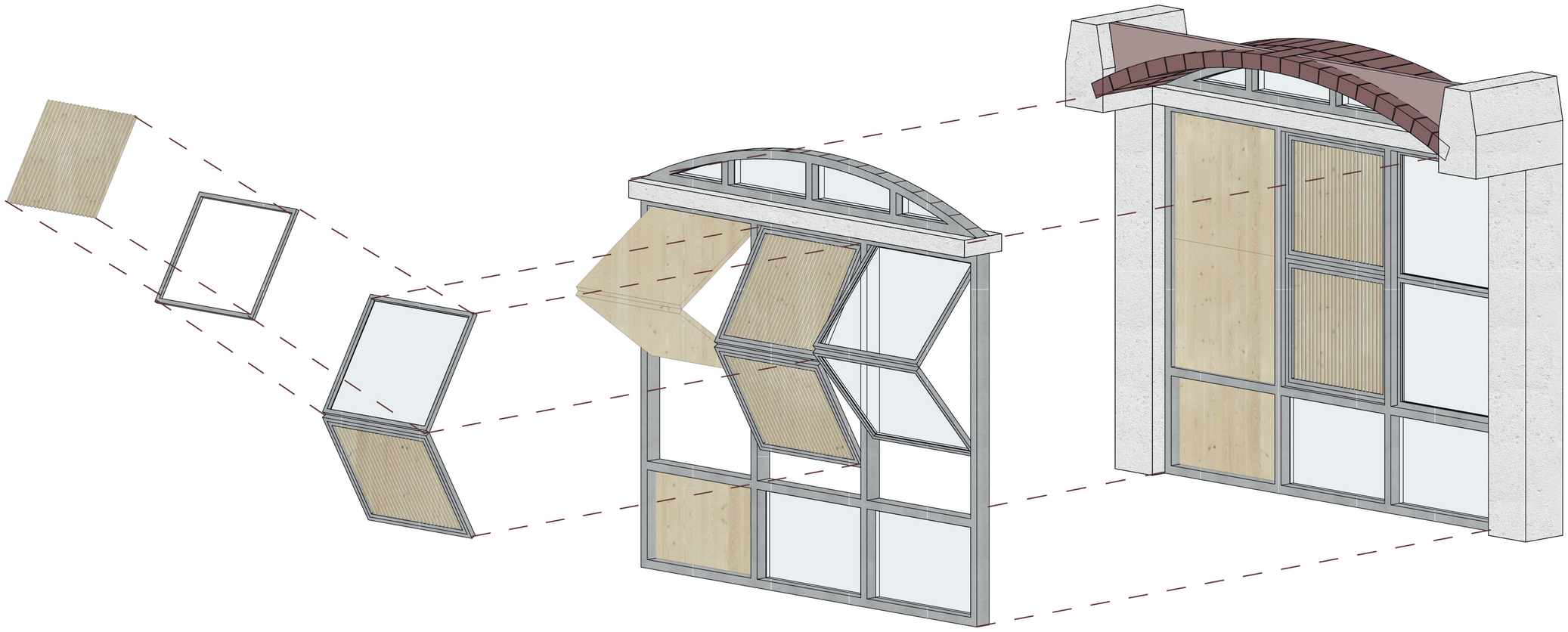
Shutters
wood



Frame
Aluminium







Facade | Impression Outside Low-Income Housing

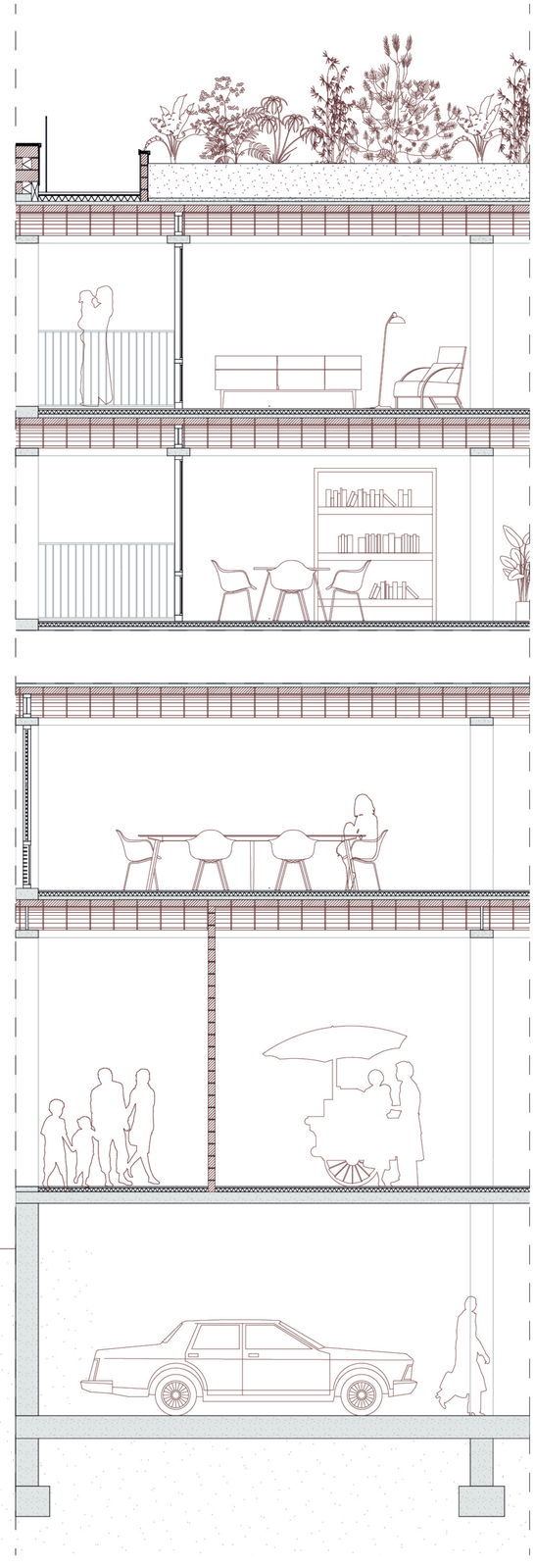


Fragment | Tower

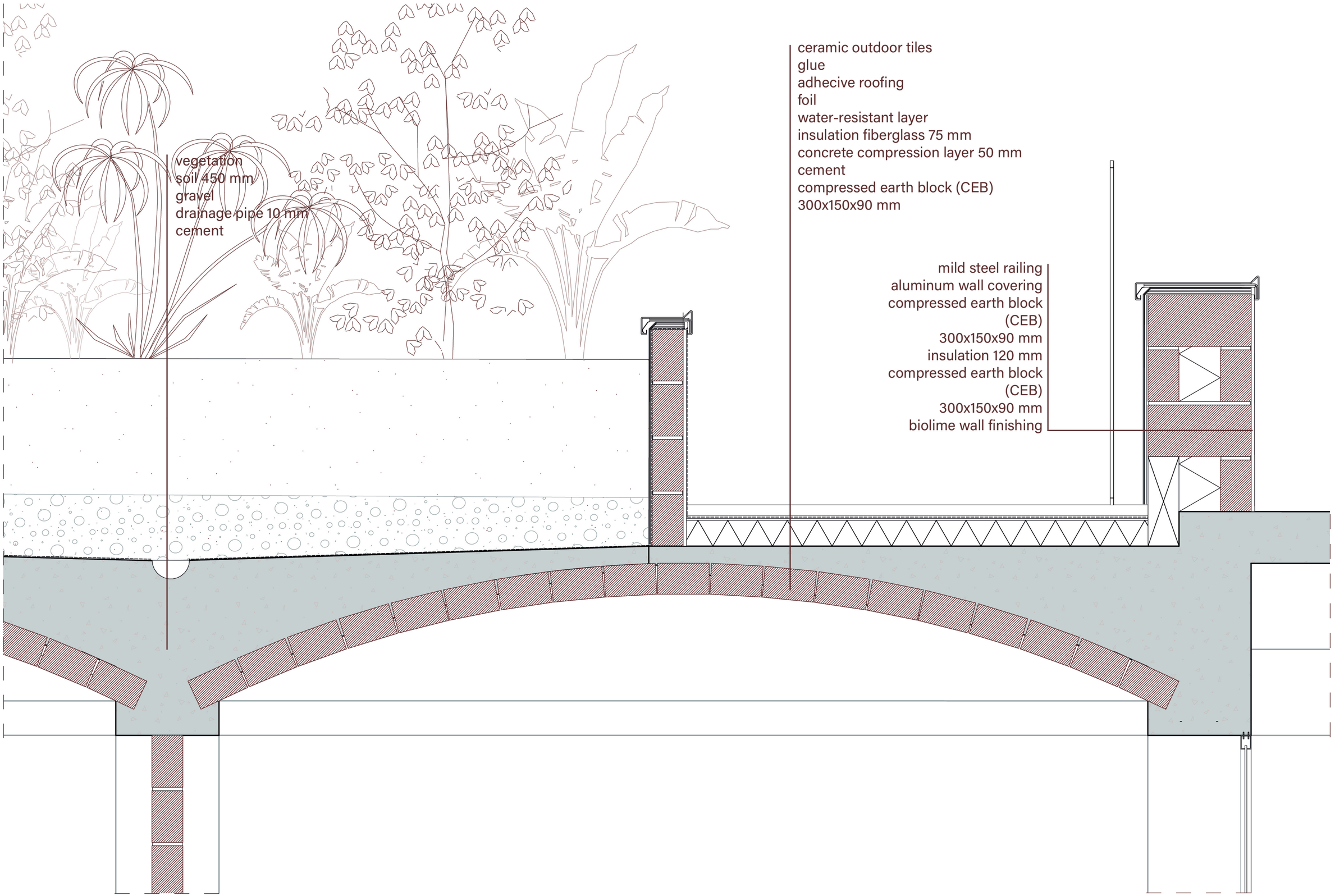


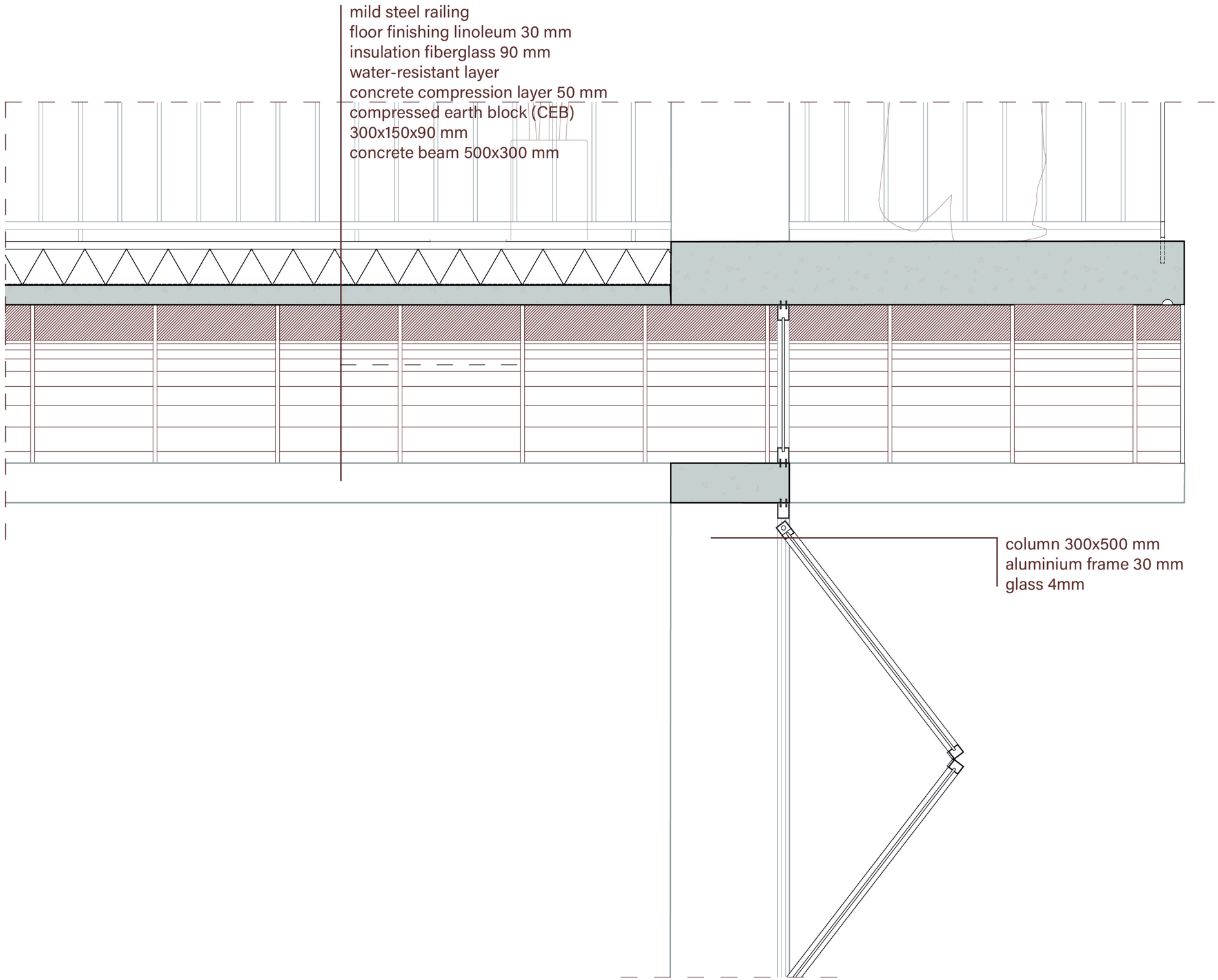
Fragment | Tower



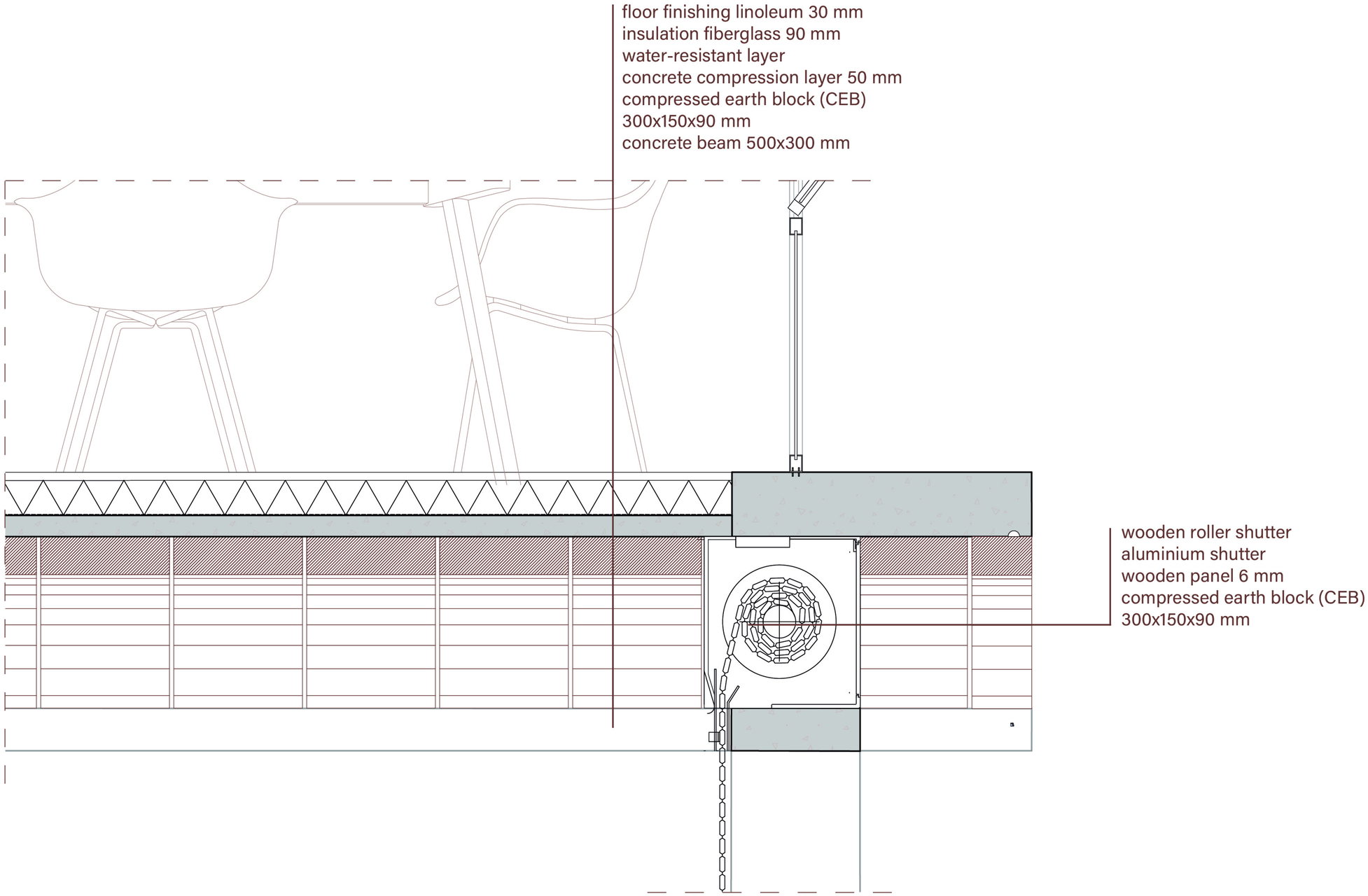


Detail | Roof

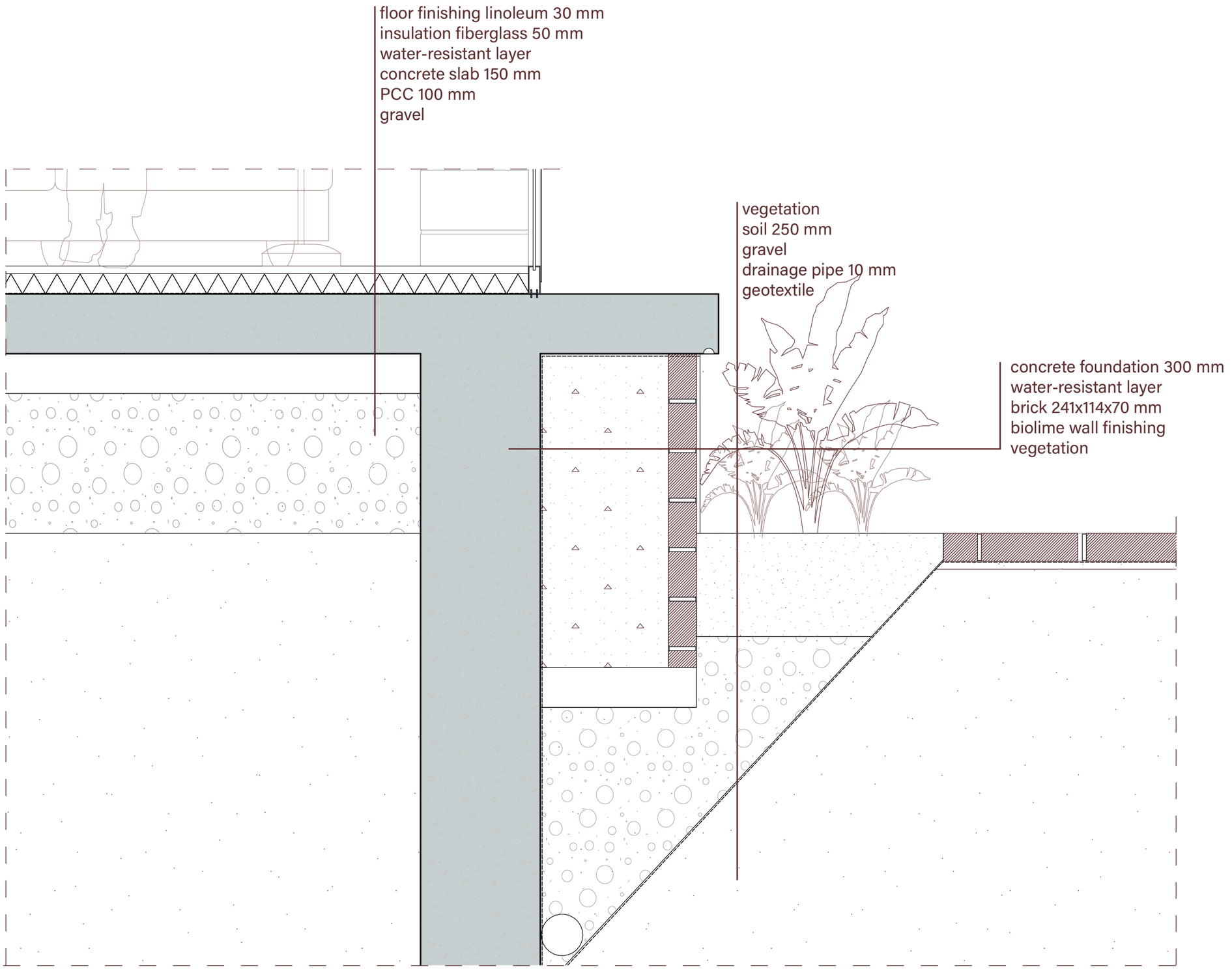

vegetation
soil 450 mm
gravel
drainage pipe 10 mm
cement
ceramic outdoor tiles
glue
adhecive roofing
foil
water-resistant layer
insulation fiberglass 75 mm
concrete compression layer 50 mm
cement
compressed earth block (CEB)
300x150x90 mm
mild steel railing
aluminum wall covering
compressed earth block (CEB)
300x150x90 mm
insulation 120 mm
compressed earth block (CEB)
300x150x90 mm
biolime wall finishing


mild steel railing
floor finishing linoleum 30 mm
insulation fiberglass 90 mm
water-resistant layer
concrete compression layer 50 mm
compressed earth block (CEB)
300x150x90 mm
concrete beam 500x300 mm
column 300x500 mm
aluminium frame 30 mm
glass 4mm

Detail | Ground Floor Tower



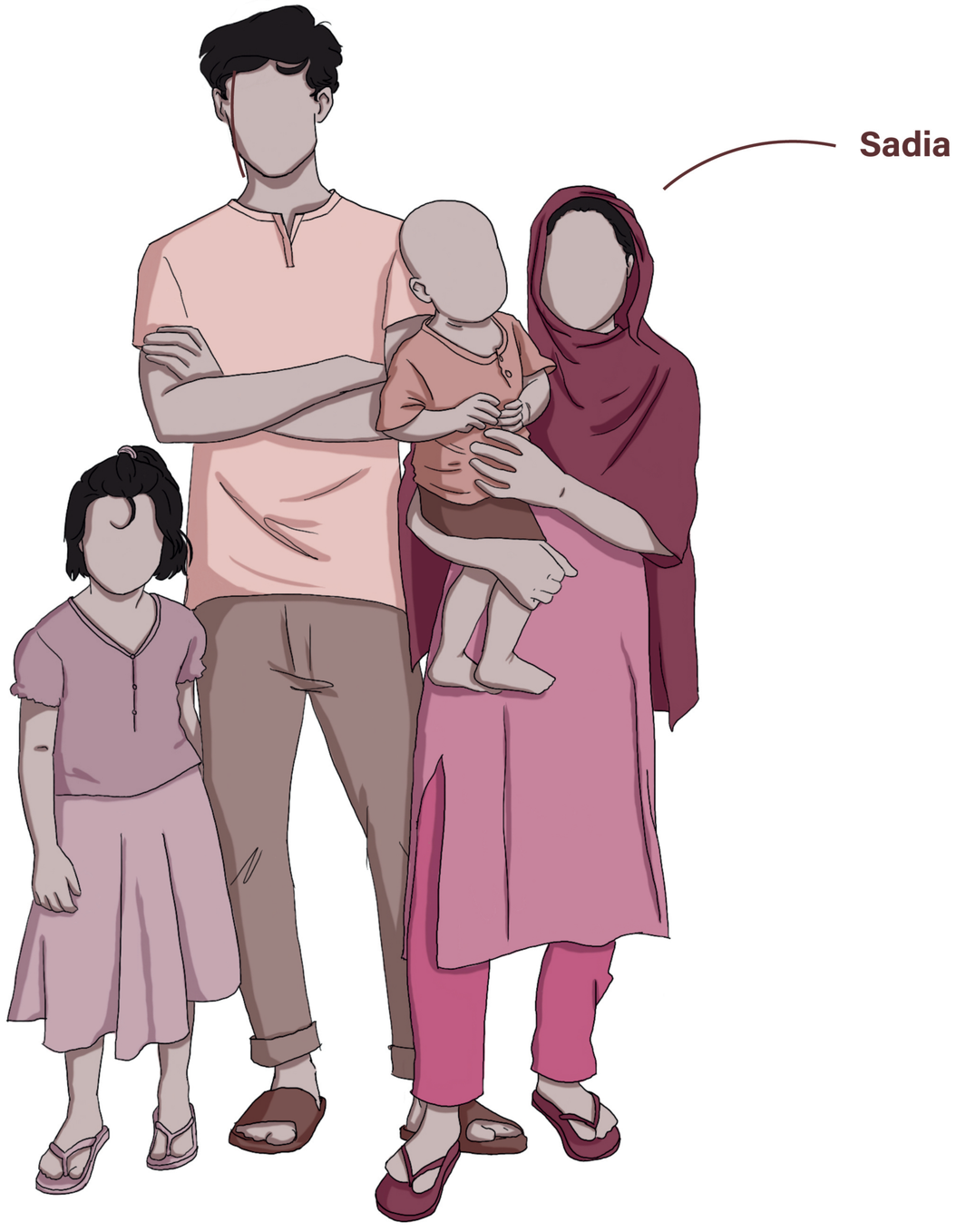
Detail | Foundation



Concluding

A day in the life of Sadia




Sadia

A Day in the Life of Sadia | In Her House



7:00 Waking Up

“When I wake up, I first look out the window to see if there is already life on the riverbank.”



10:00 Going Shopping

"I start the day with shopping. It's nice that the stores are so close by. I feel safe because there are always eyes on the street."



12:00 Walking on Riverbank

"I enjoy walking along the riverbank to meet other women and to enjoy the beautiful view of the river."



14:00 Socializing Between Housing Blocks

"I feel safe in the area near my home between the apartment blocks. The children can play safely because only pedestrians can come here. I enjoy chatting with other women here."



14:30 Going Home

"On my way home, I first come to the courtyard, which is a nice place. It really feels like a community, and I can always turn to my neighbors."



15:00 Harvesting Food

"On the rooftop terrace, I have a shared vegetable garden. Here, I harvest vegetables myself, which gives me a sense of freedom and empowerment, and I really enjoy doing it."



16:00 Preparing Food

"I always prepare my food on my floor with other women. This is our moment to secretly gossip and talk about the day."



18:00 Cooking

“I love cooking for my family. I enjoy having my own kitchen with my own things and I like that I have contact with other people through the windows.”



21:00 Going to Bed

"I like that there are two rooms in my home, so I can have a bit more privacy, also with my husband."

Greetings from Sylhet

