The Missing Middle.

The Missing Middle.

01 The Assignment

02 The Problem Statement

03 The Research

04 The Design

- The Neighborhood
- The Cluster
- The Unit

TU Delft | Architecture and the Built Environment GLOBAL HOUSING

MSc 4 Graduation Studio

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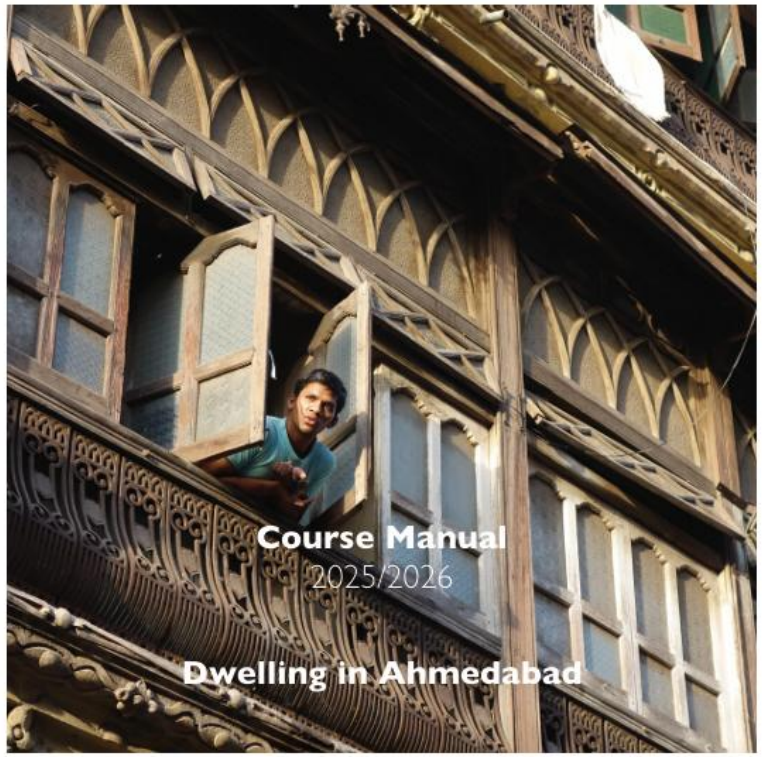
AR4GH010

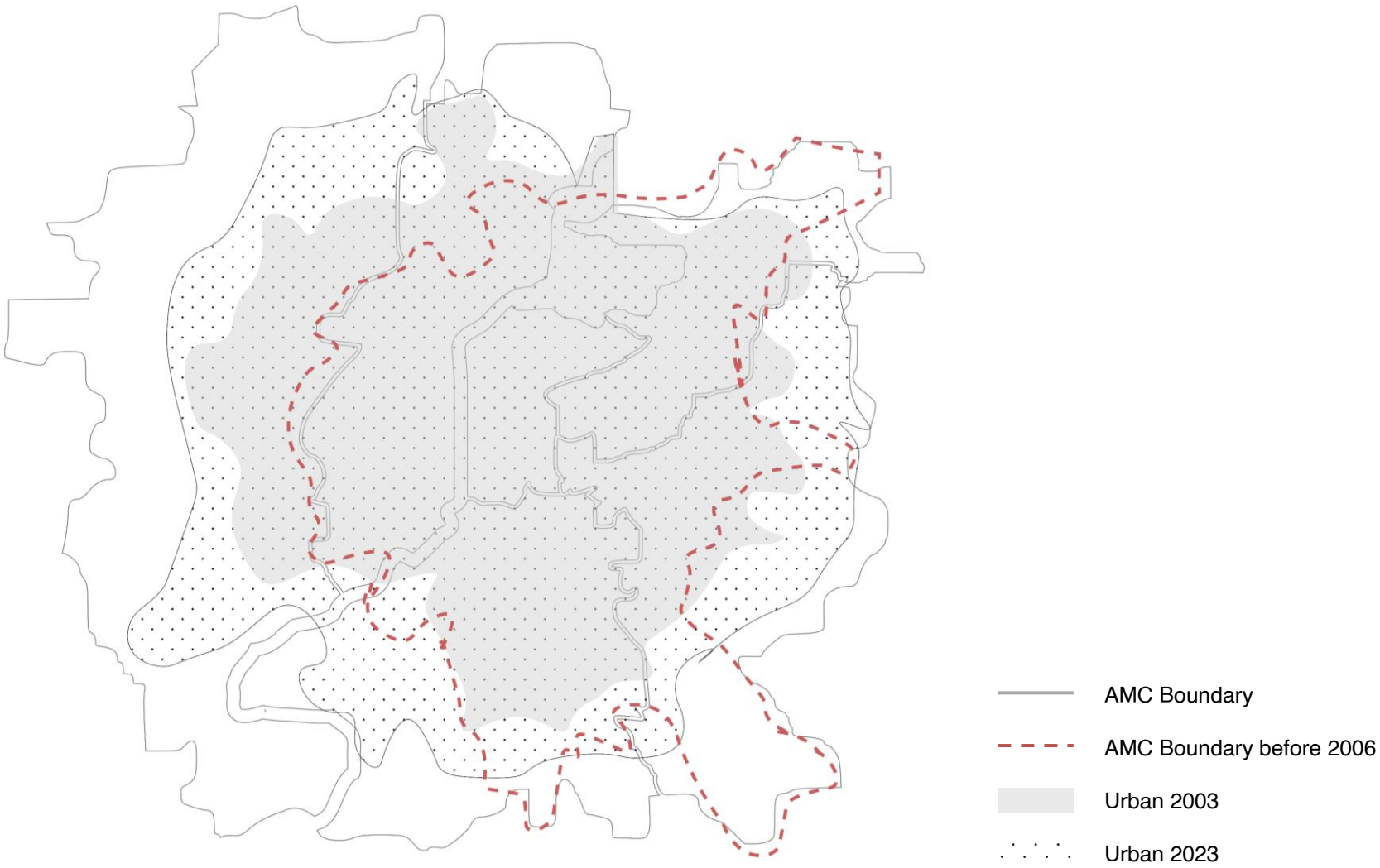


Design an inclusive, climate-responsive low-rise, high-density housing proposal for Ahmedabad, inspired by the qualities of traditional housing.

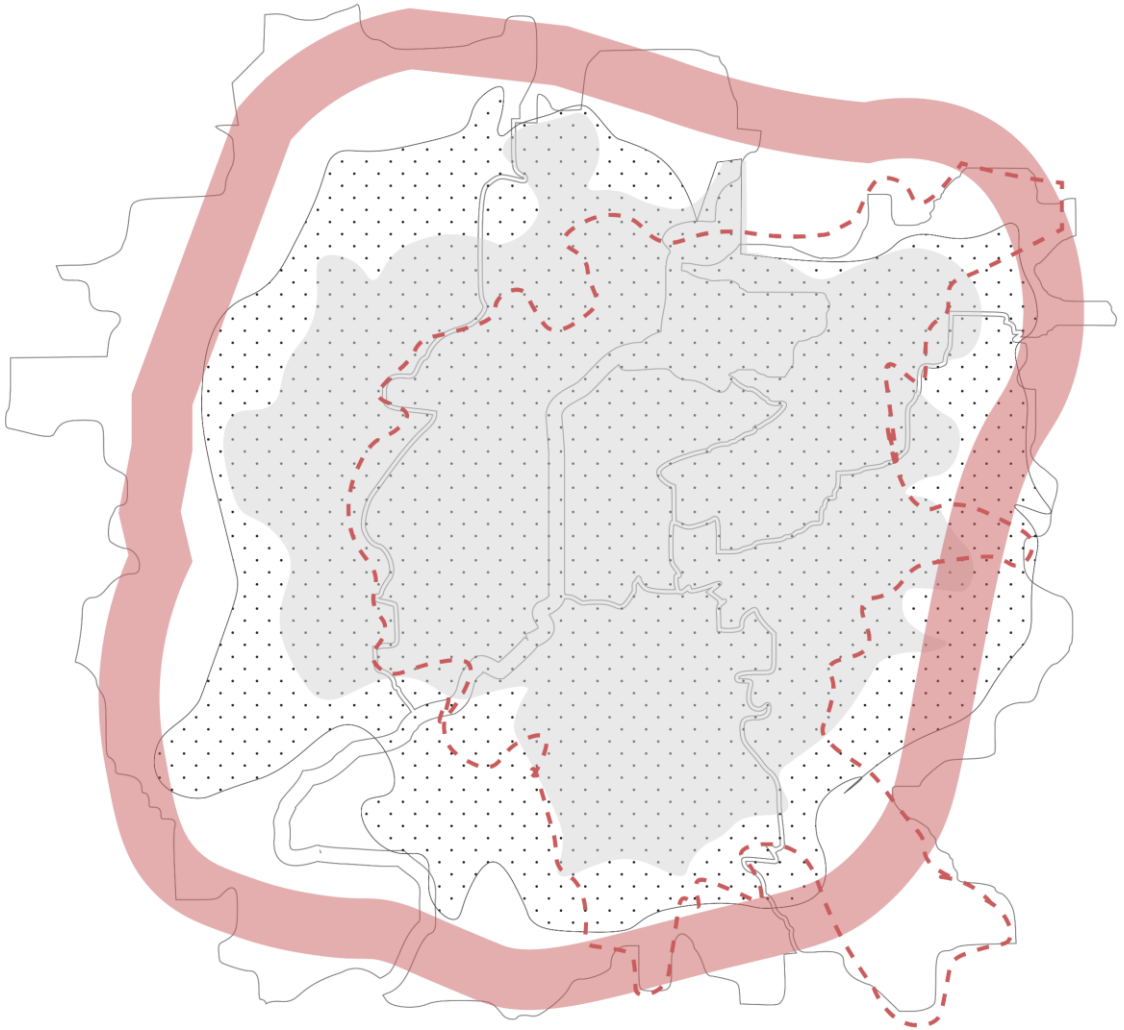
India, Ahmedabad



Rapid Urbanization



New Development



New High-rise Development












Global Housing in India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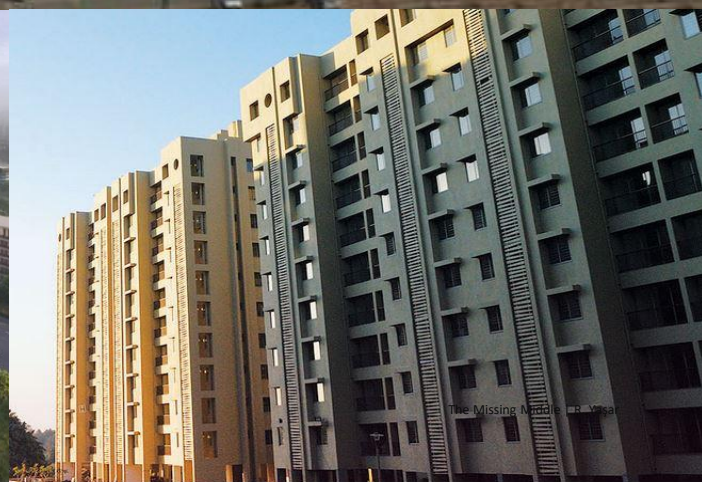
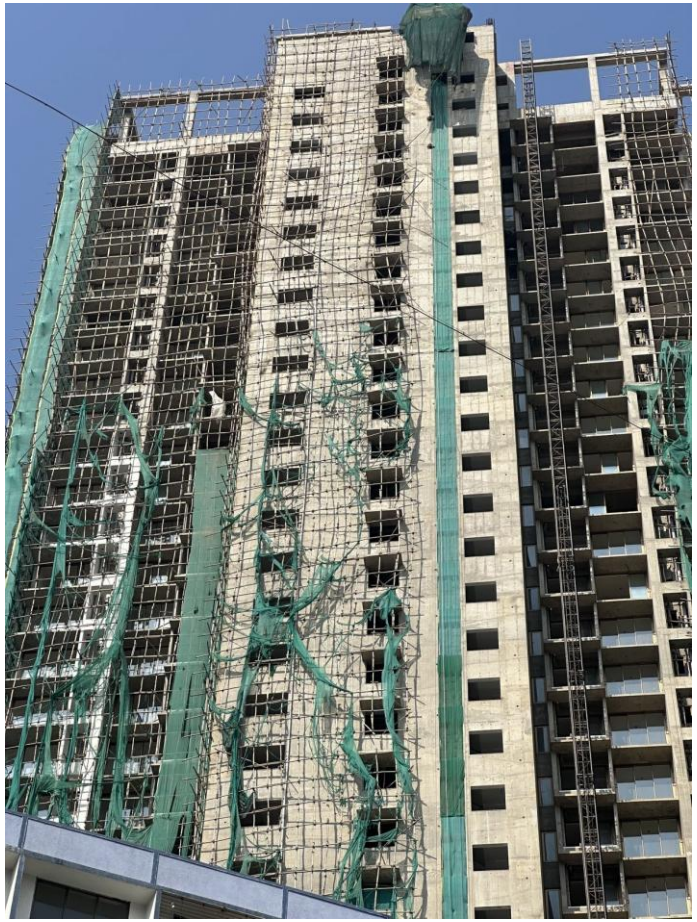
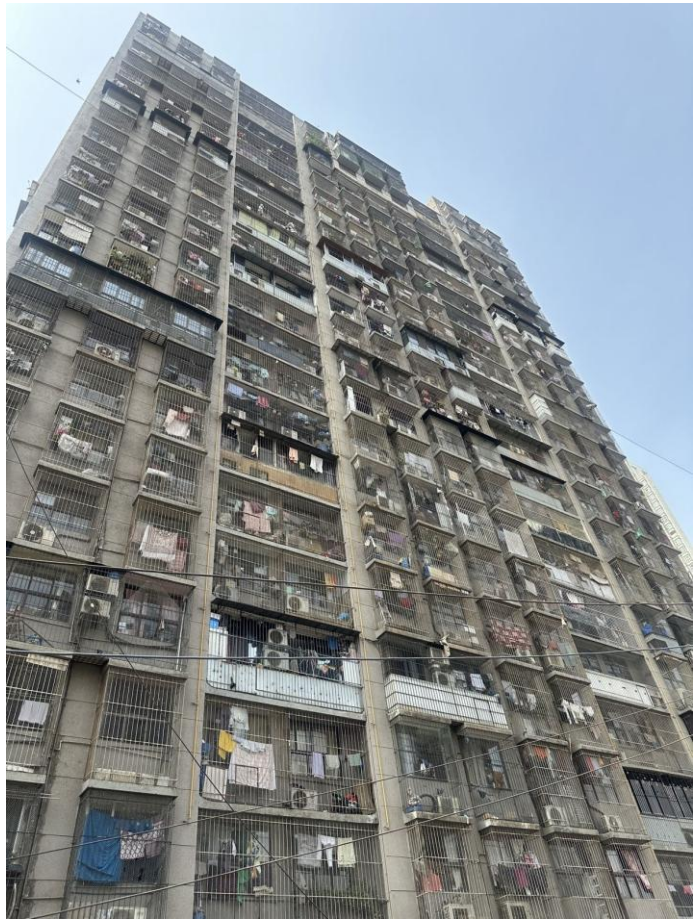

The Missing Middle

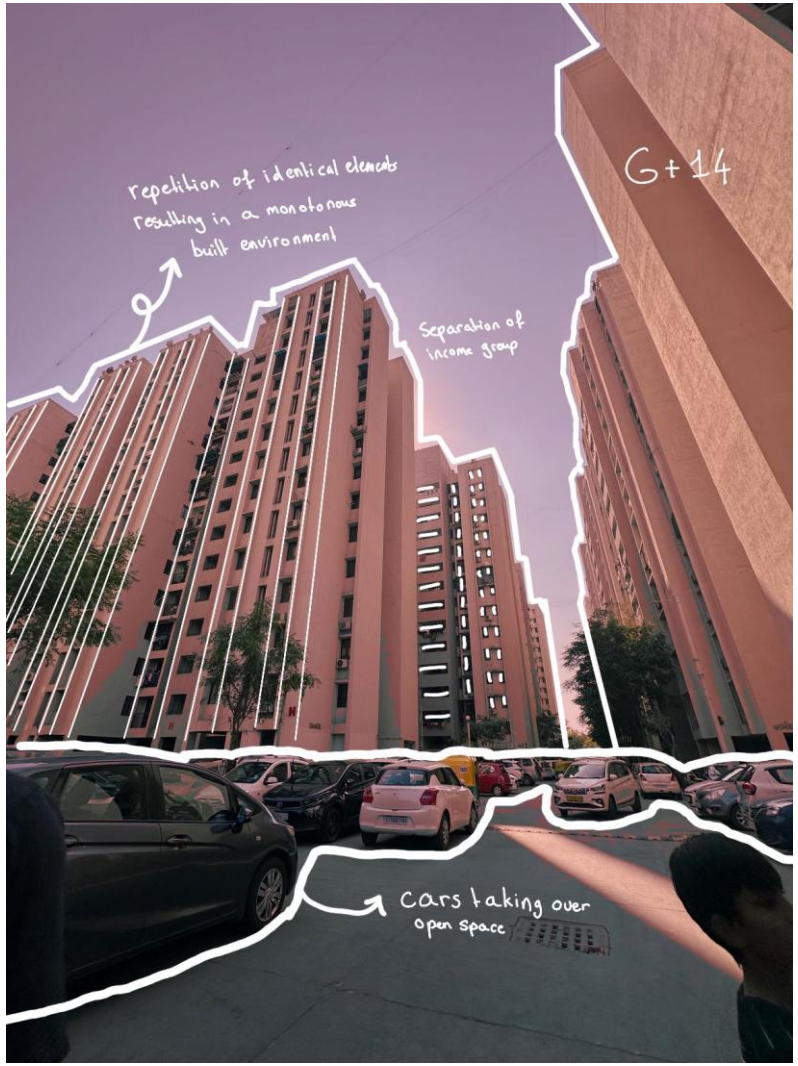
Field Trip Observations







Field Trip Observations









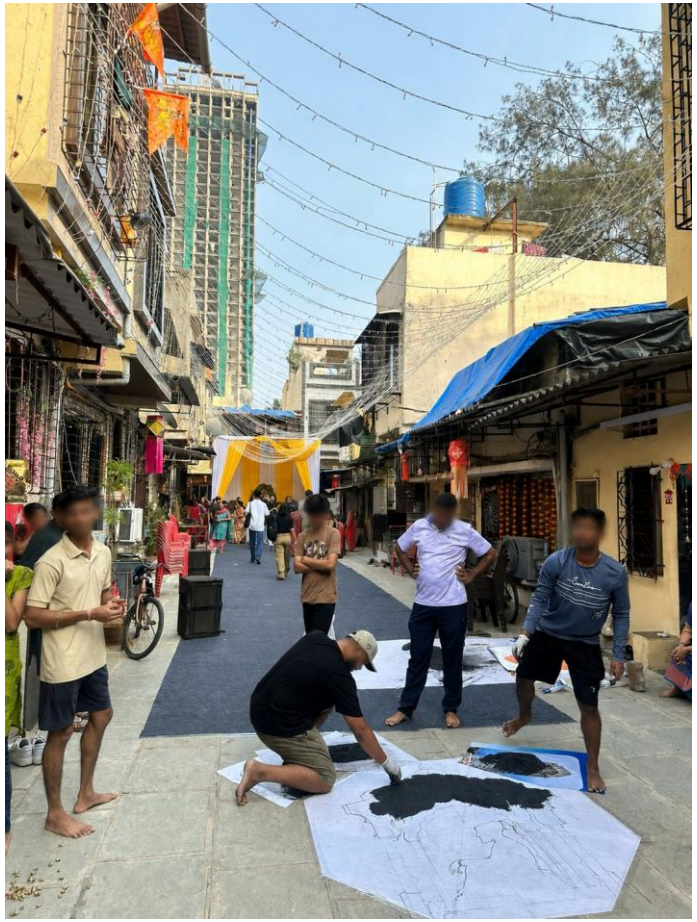








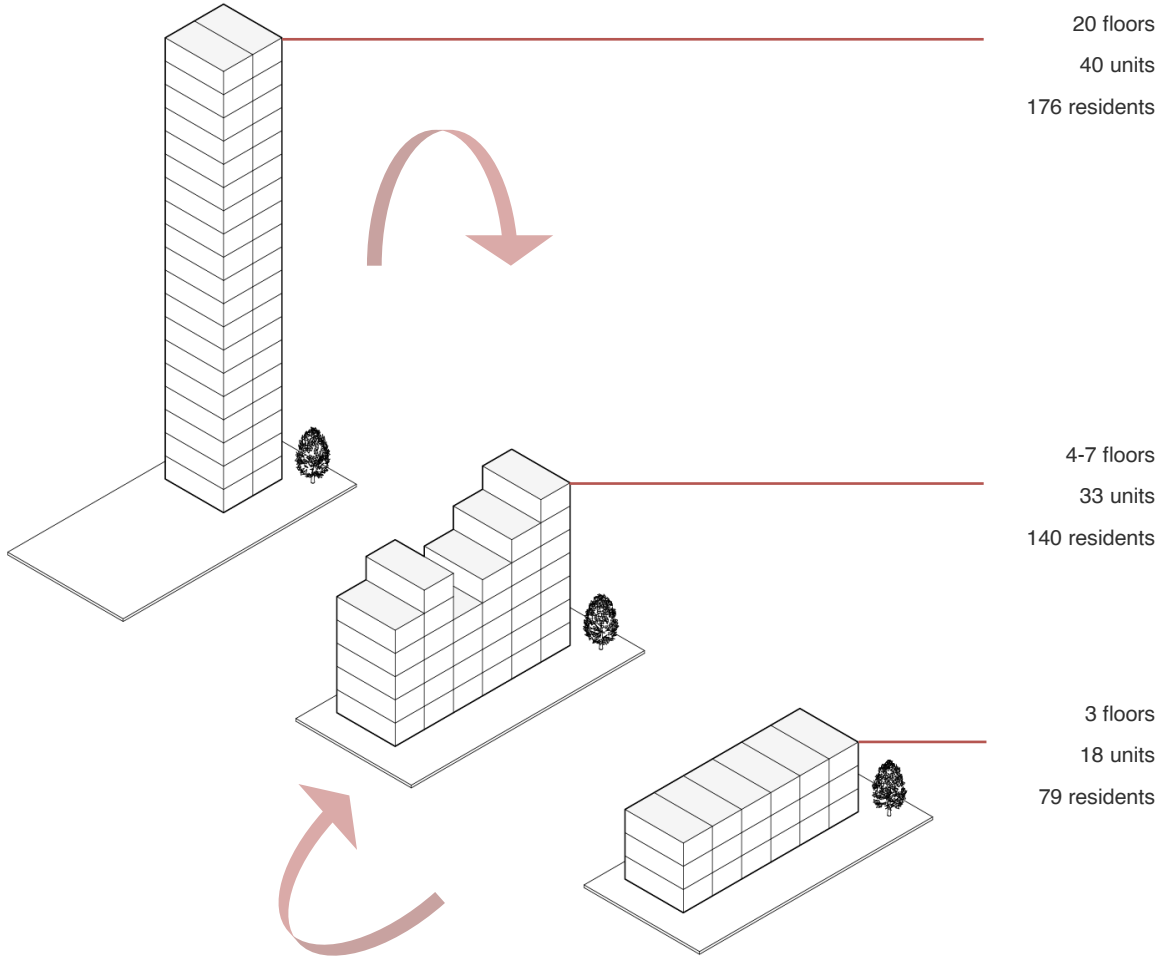

Field Trip Observations







In Ahmedabad, increasing density pressures have resulted in repetitive high-rise housing that often neglects social life and neighborhood vitality. This highlights a missing middle between traditional low-rise living and contemporary high-rise development.



How can a ‘**missing middle**’ housing approach in Ahmedabad bridge the gap between **low-rise** and **high-rise** development while supporting **dense, livable and socially active neighborhoods**?

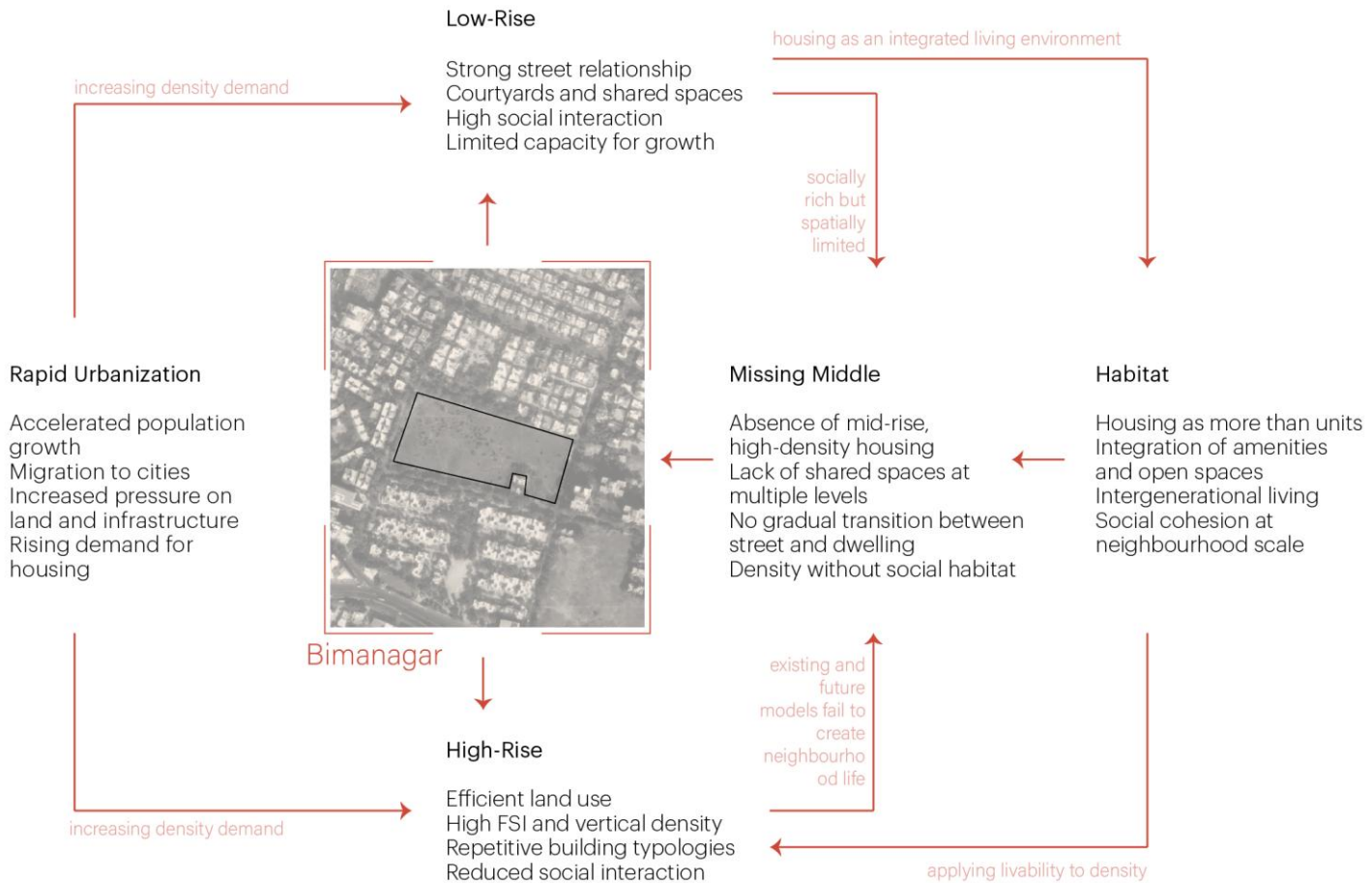
How do low-rise and high-rise housing developments in Ahmedabad compare in terms of built density, spatial organization, patterns of social interaction, and neighborhood vitality?

Which spatial, and programmatic qualities of traditional low-rise, high-density neighborhoods support livable, socially and economically active communities?

How can mid-rise, high-density housing integrate the positive qualities of traditional low-rise housing to design a socially active, livable habitat while also accommodating to contemporary density demands?

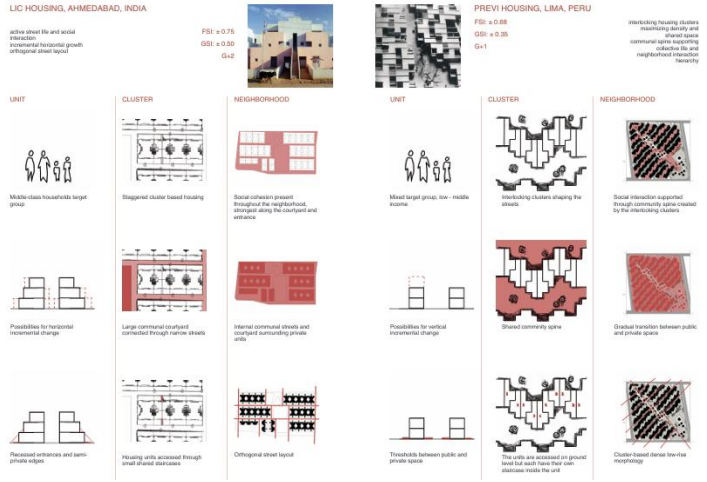
Fieldwork Observations, Case studies, Comparative Framework, Architectural Design

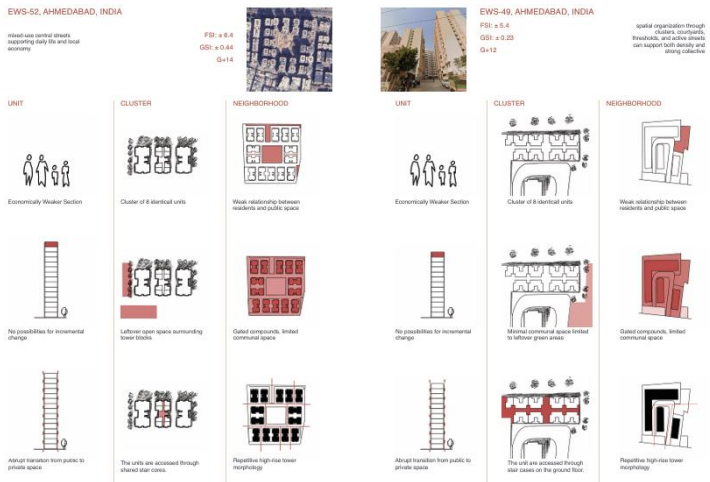
Framework

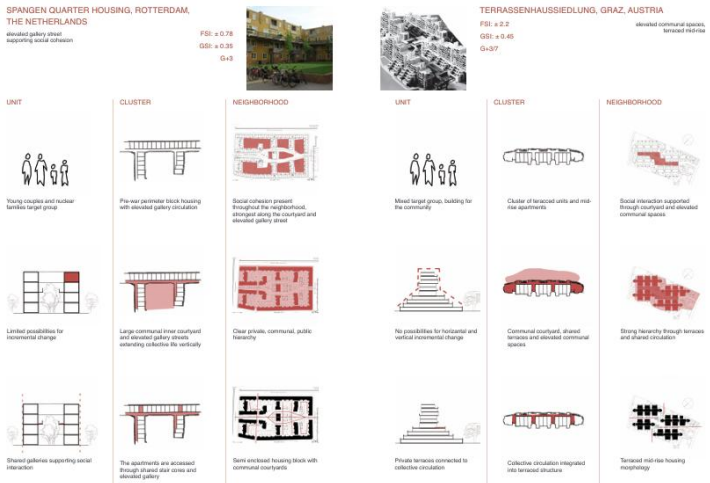


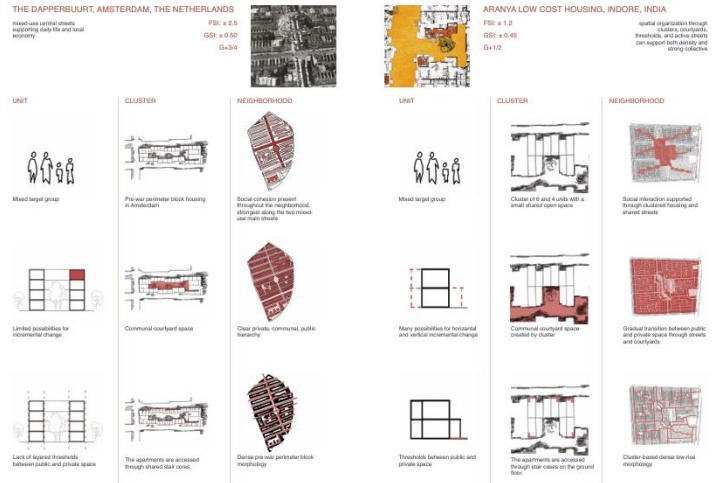
Bimanagar predominantly low-rise residential fabric, fragmented plots and gated developments, inactive streets, ongoing mid-rise (G+13) redevelopment

Comparative Case study Analysis





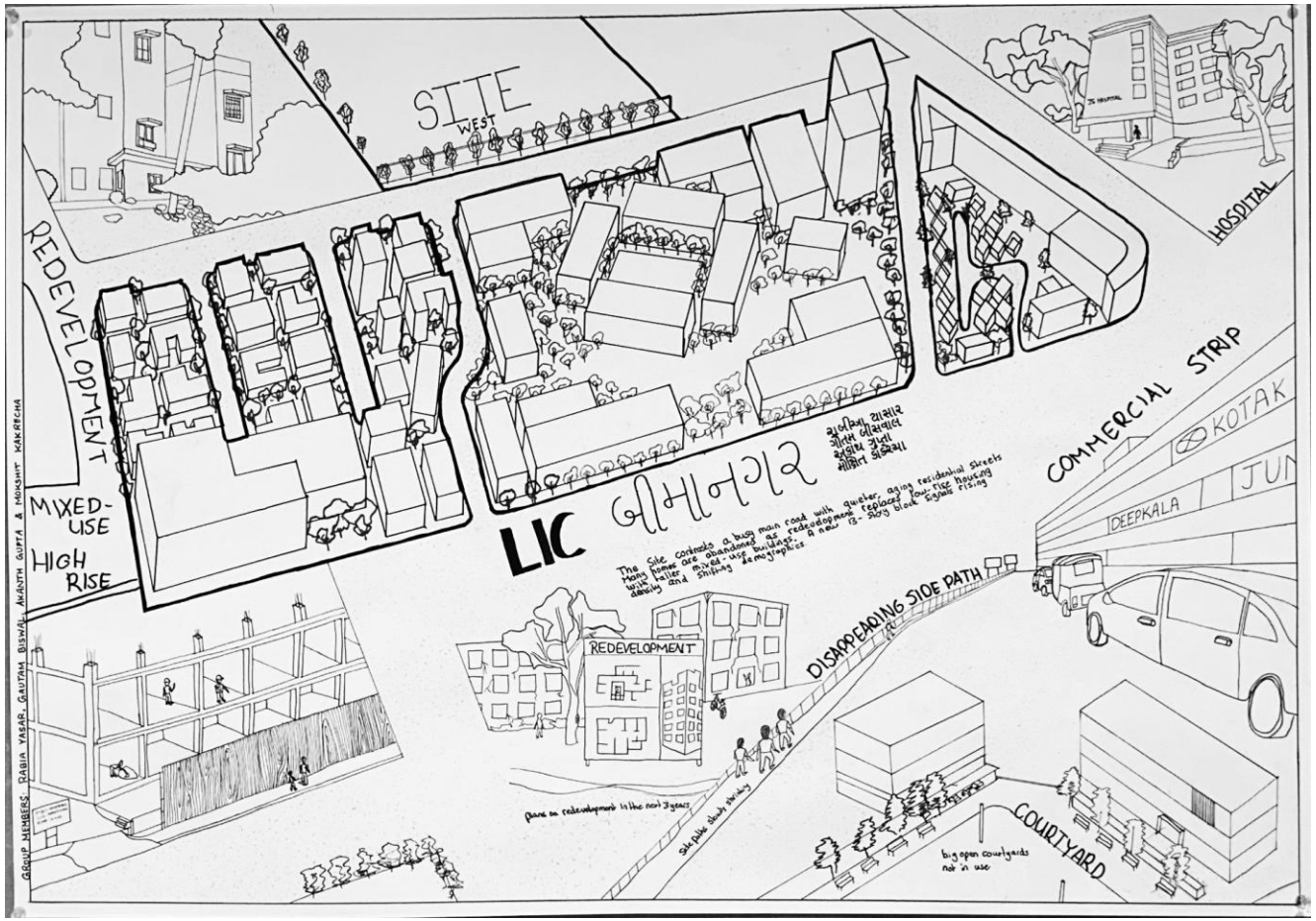


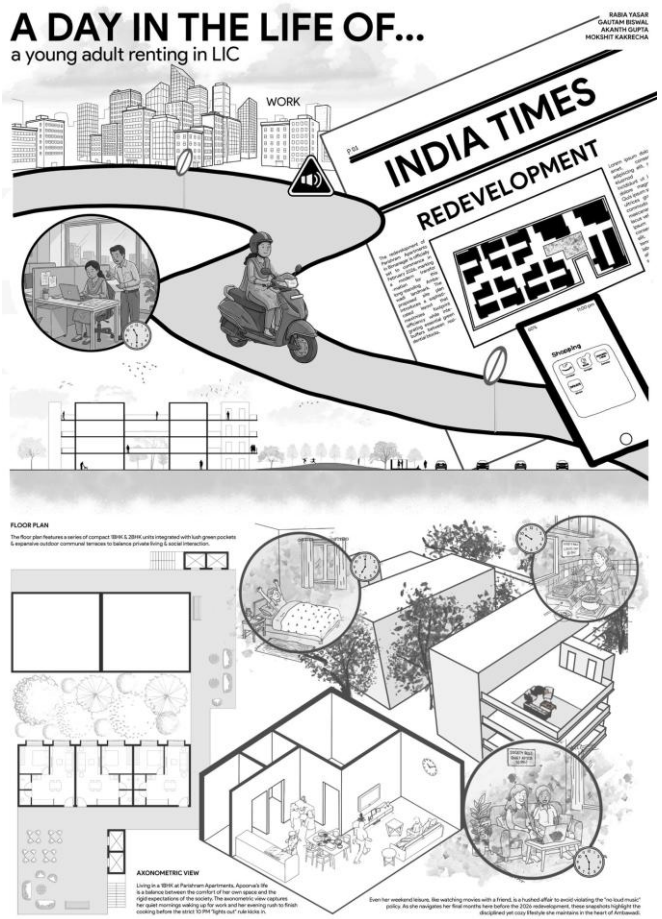






Bimanagar Site Analysis (CEPT University)





Bimanagar Site Analysis







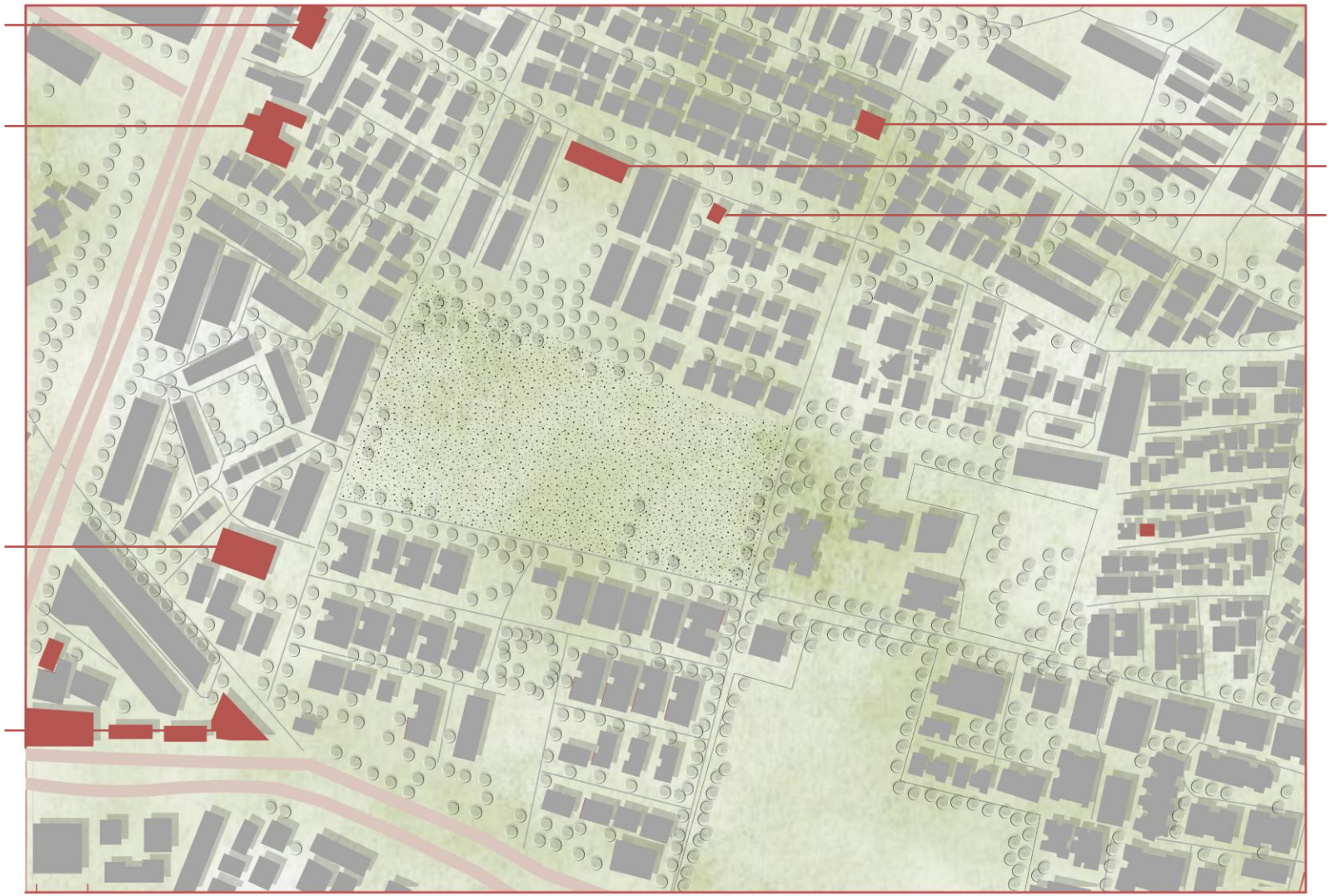









Bimanagar Site Analysis

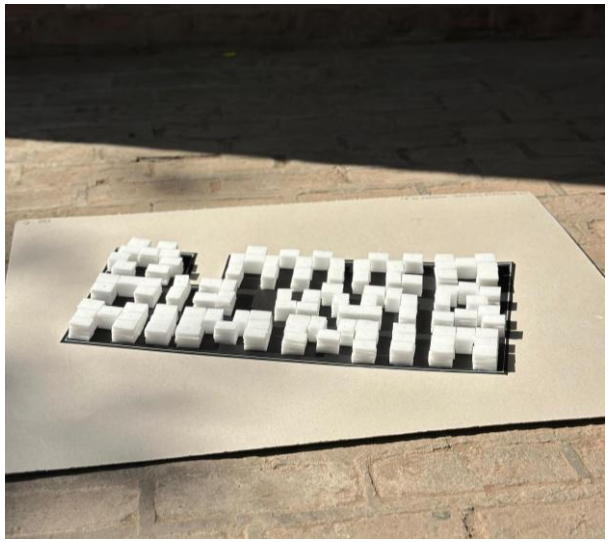


Bimanagar Site Analysis



Bimanagar Density Studies

FSI 2



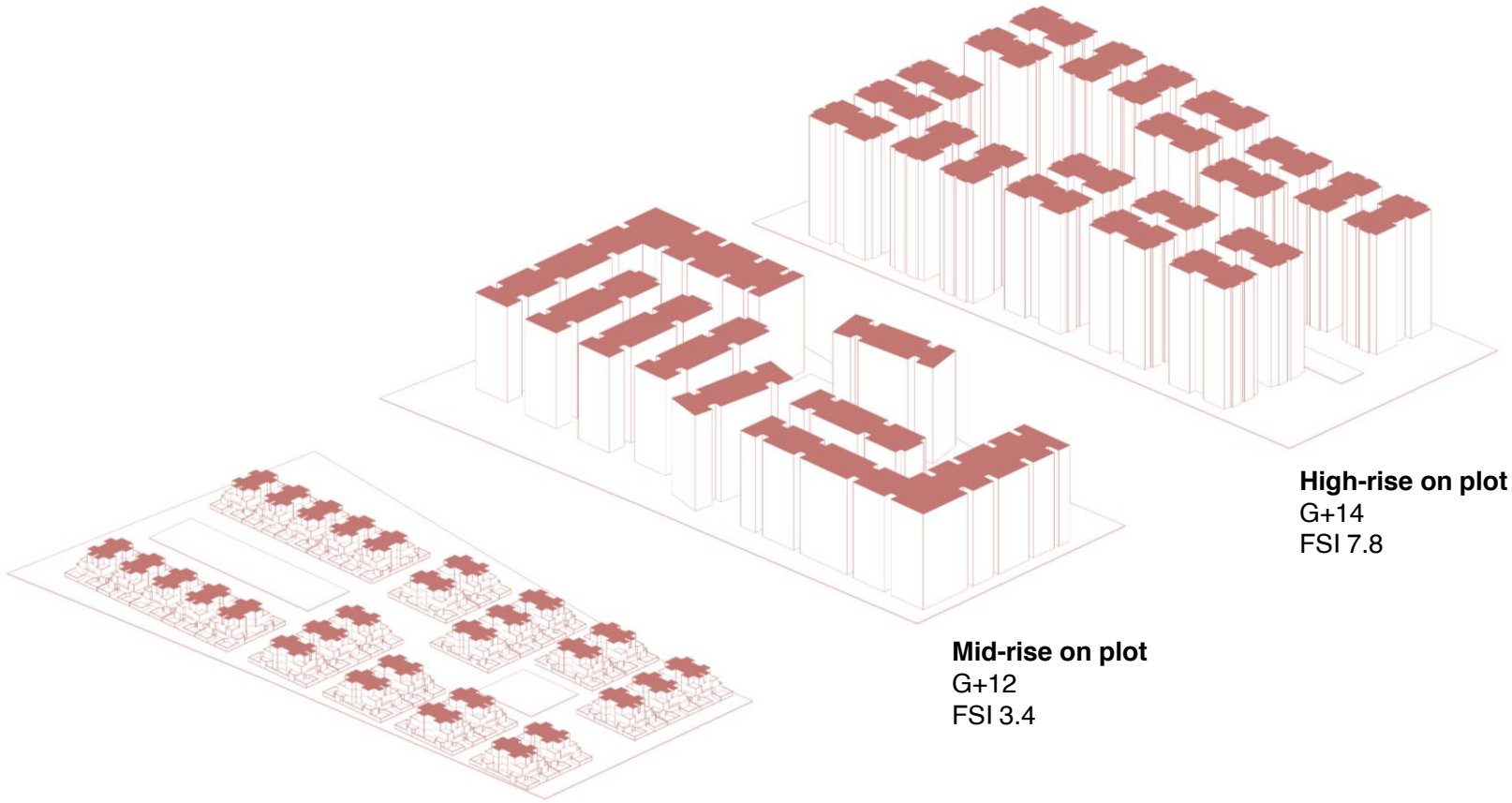
Low-rise G+4



Mid-rise G+5 to G+9



High-rise > G+10



High-rise on plot
G+14
FSI 7.8

Mid-rise on plot
G+12
FSI 3.4

Low-rise on plot
G+2
FSI 1.3

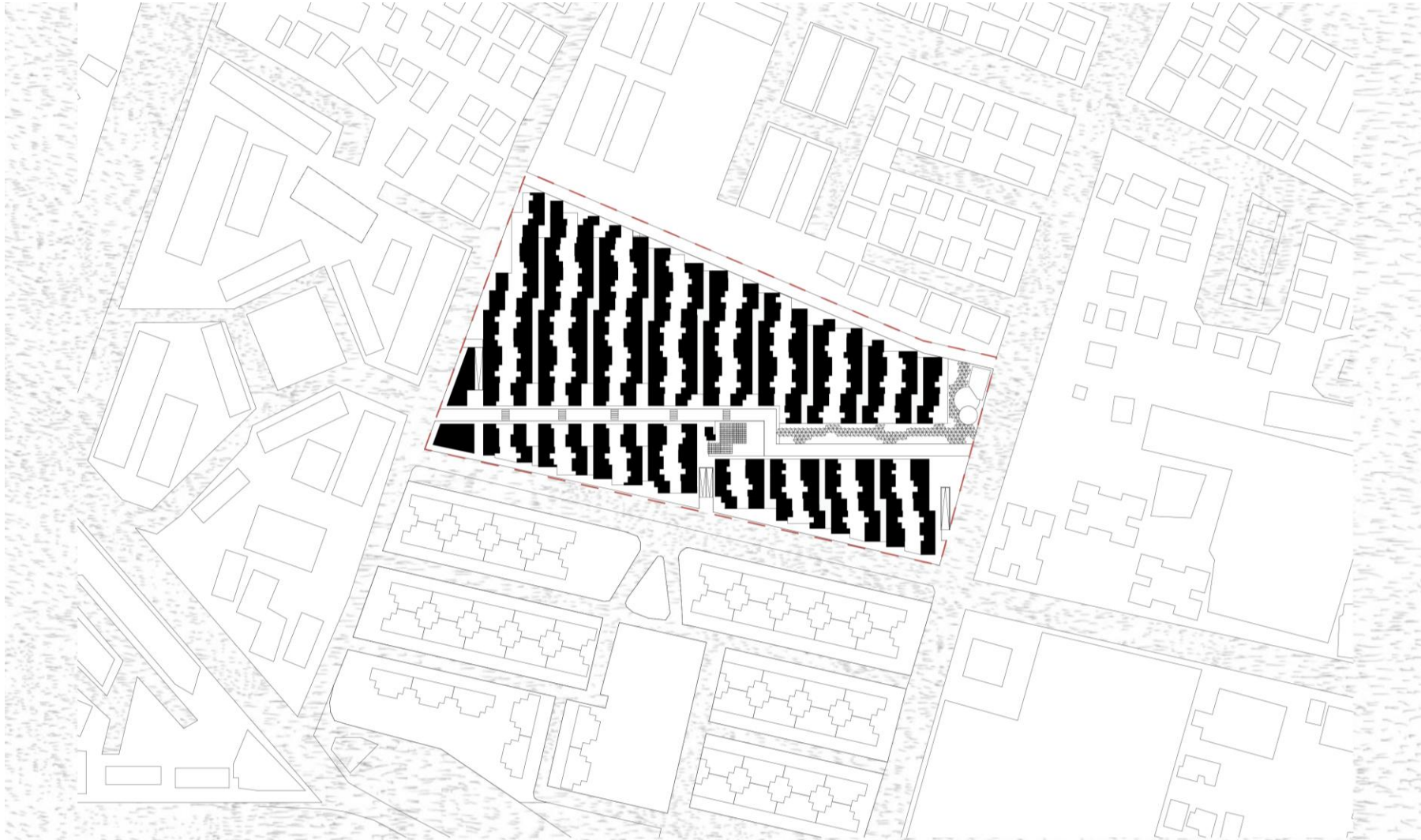
Goal
G+6
FSI 2,5

Design Principles

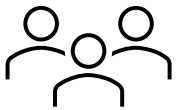


The Neighborhood.

Masterplan



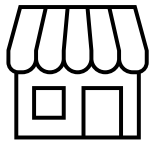
Program



Mixed-income community
Starters
Nuclear families
Multi-generational families
Elderly residents



143 × 1 BHK maisonnettes,
174 × 2 BHK maisonnettes,
109 × 3 BHK maisonnettes,
42 × 4 BHK maisonnettes,
61 × 5 BHK maisonnettes,
75 × 1 BHK apartments
52 × 2 BHK apartments

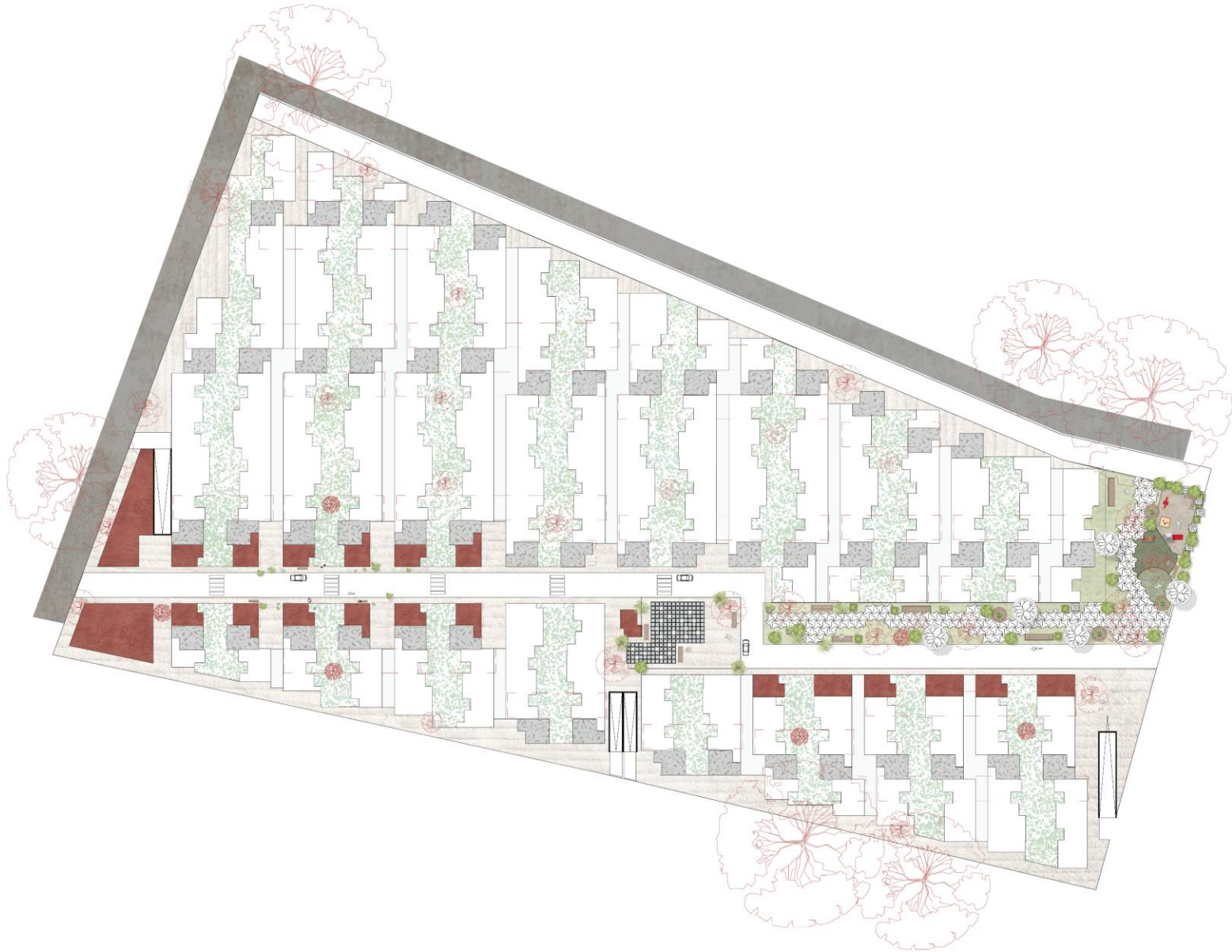


Gym
Co-working
Study spaces
Café & restaurant
Grocery store
Local vendors
Community pavilion
Central courtyard
Public park
Children's playground

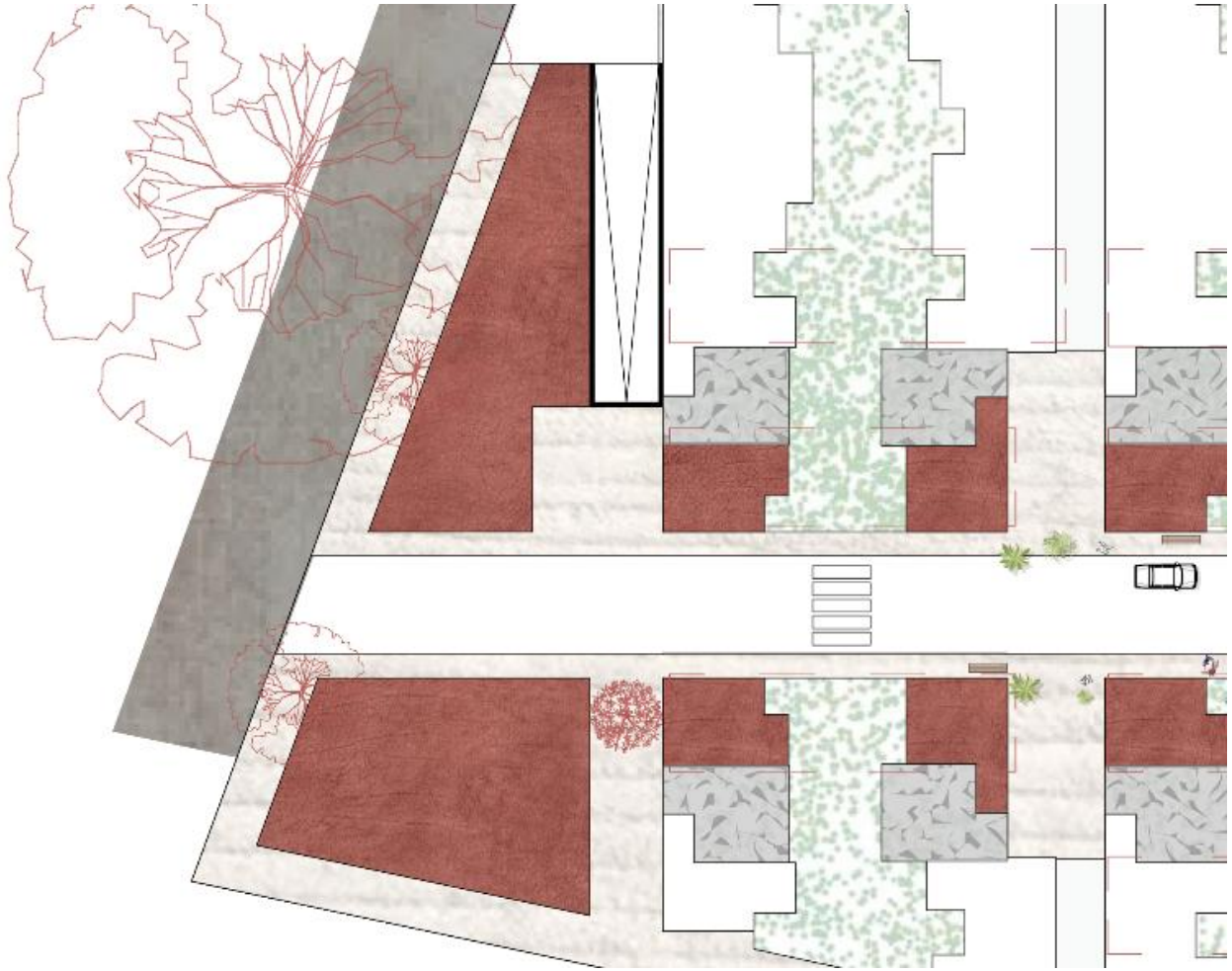
Together, the project provides housing for approximately 2,200 residents, with a total built up of 64.804m2, achieving a

2.51 FSI and 0.50 GSI

Masterplan



Facilities



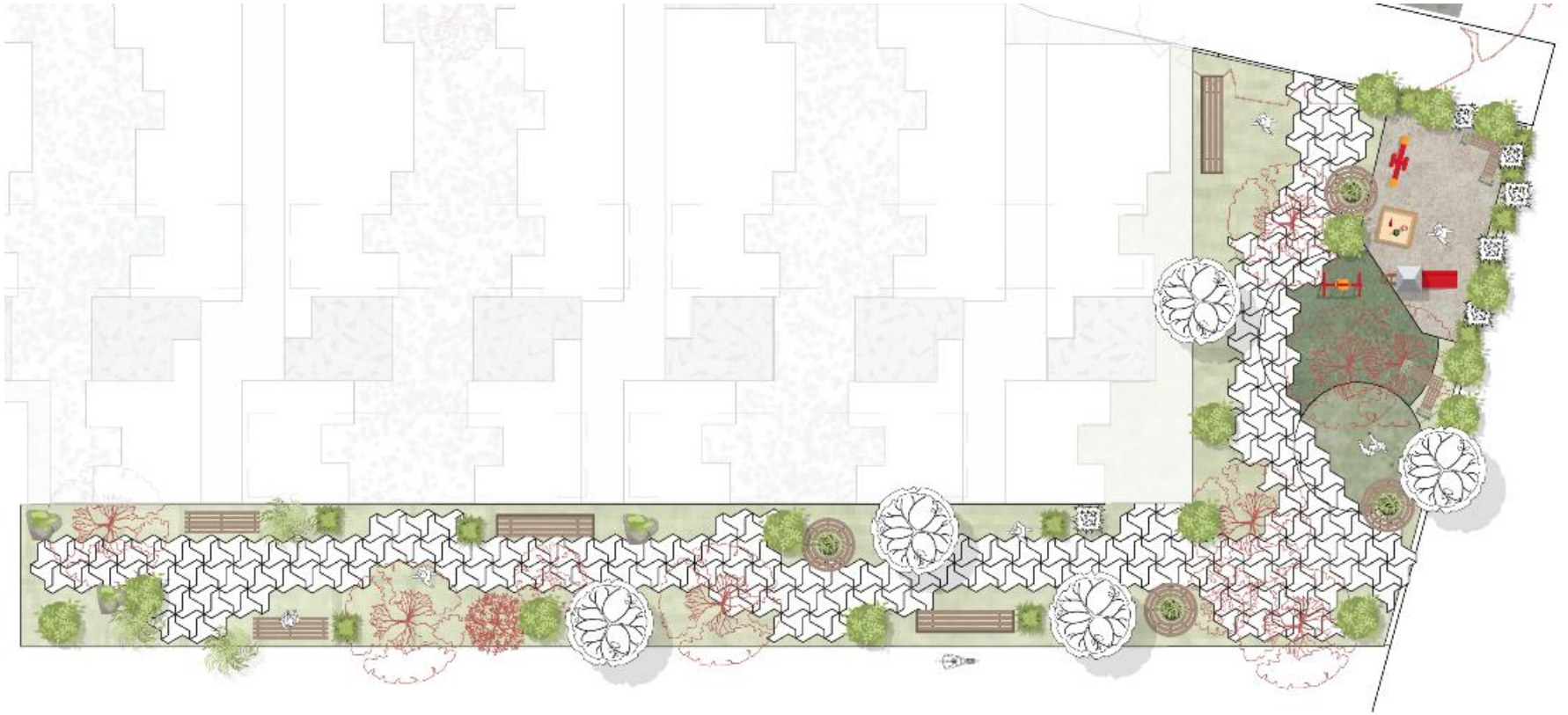
Commercial Spine



Central Courtyard



Park

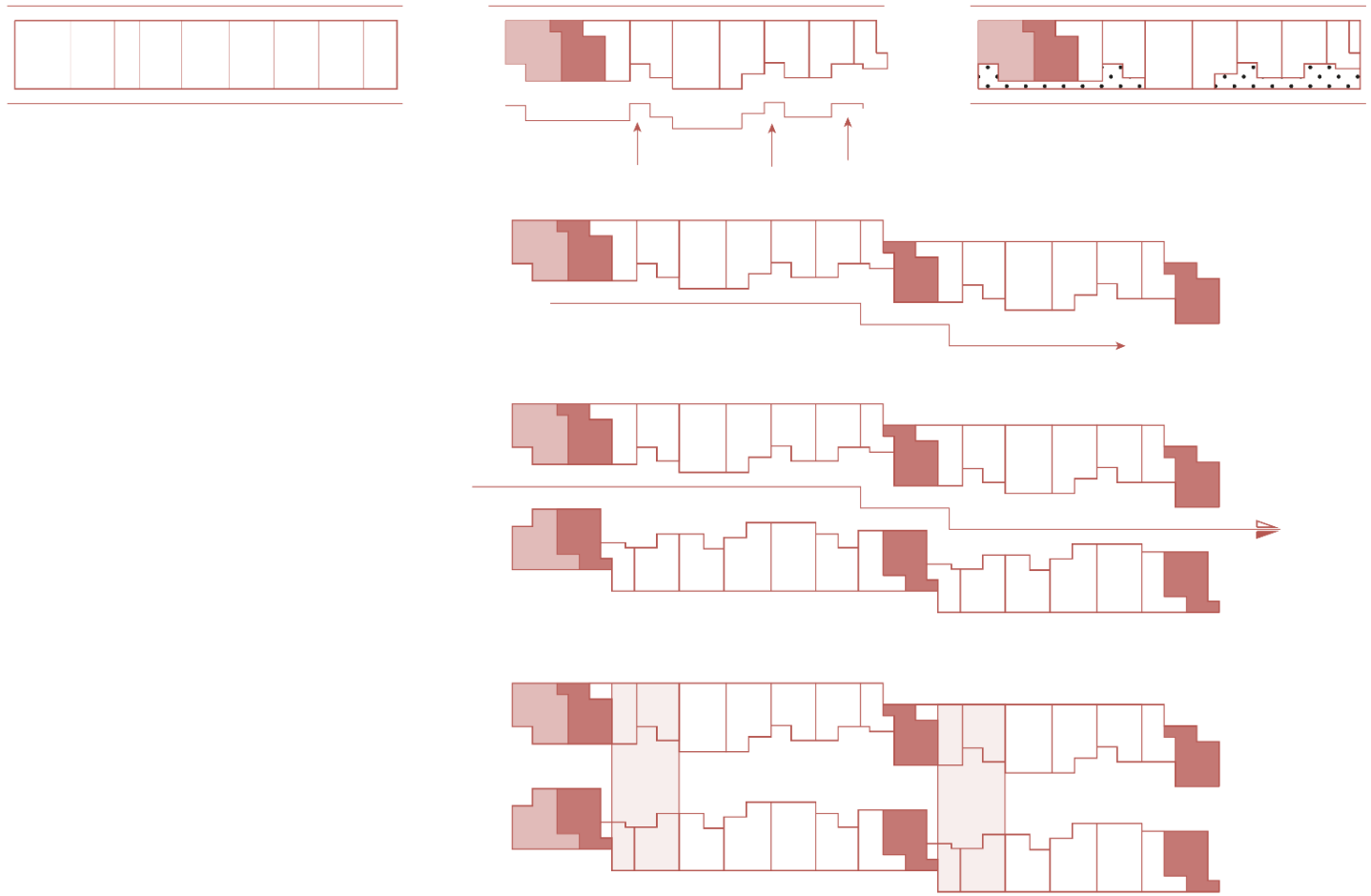


Park

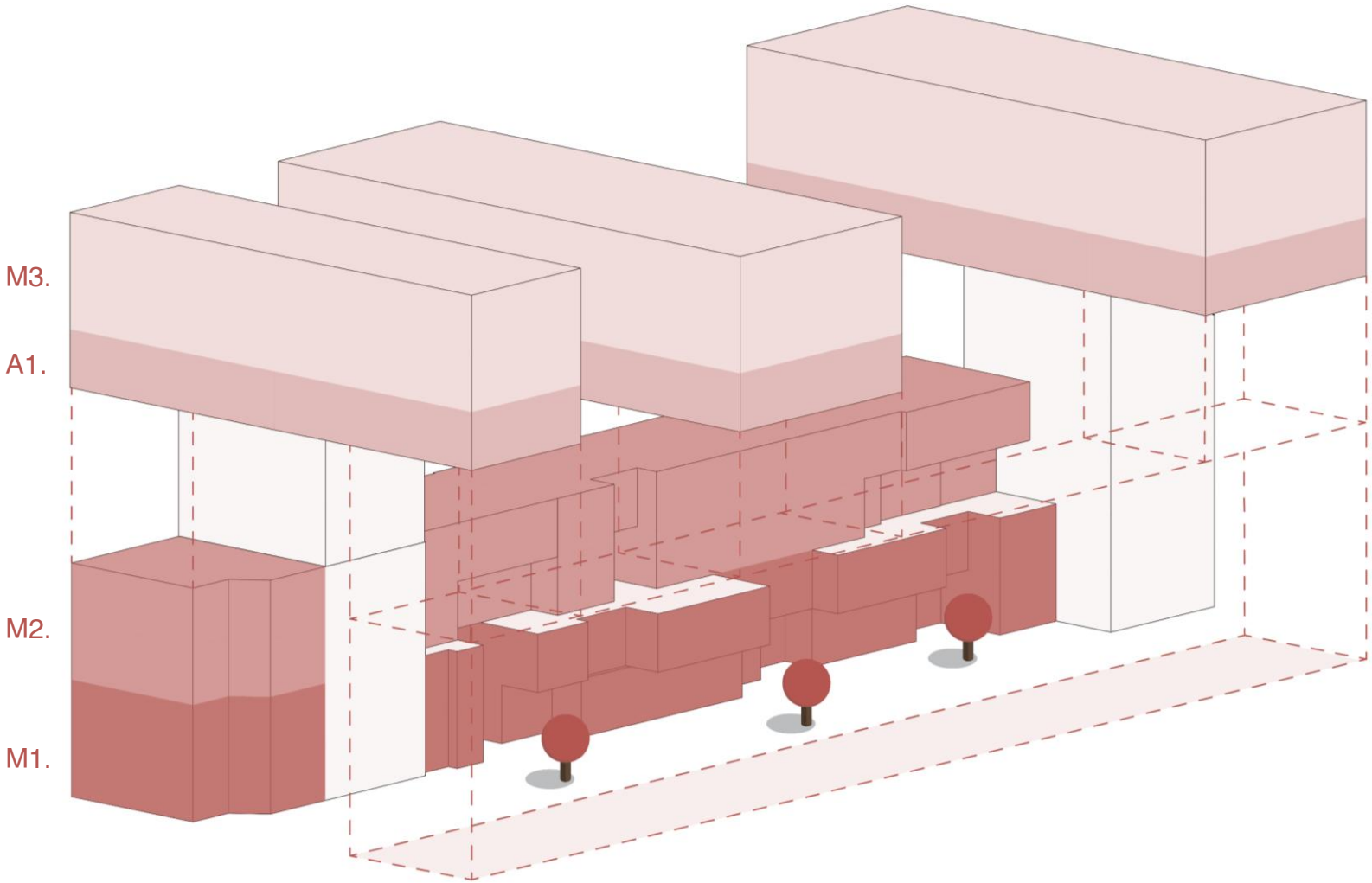


The Cluster.

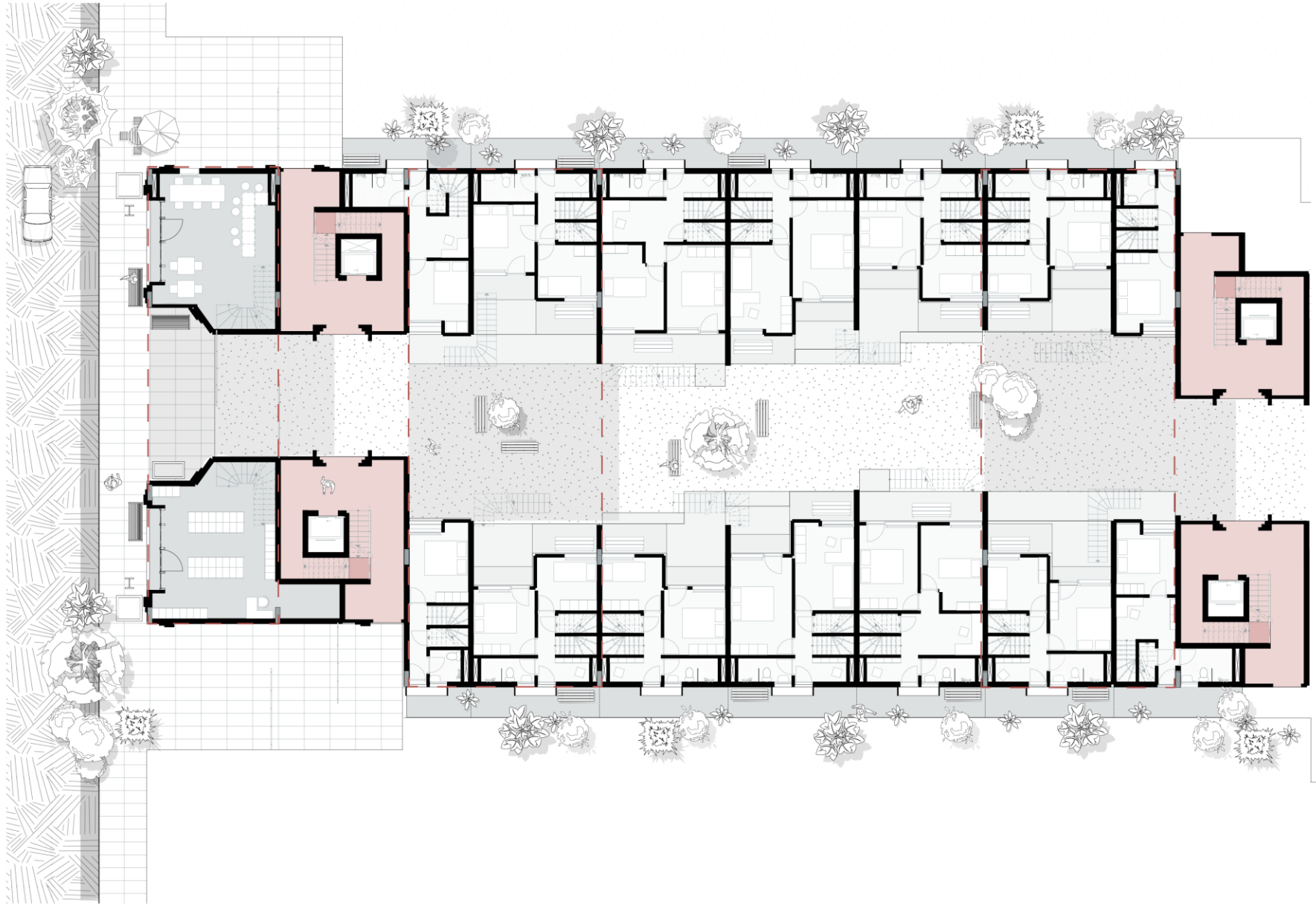
Diagram Cluster



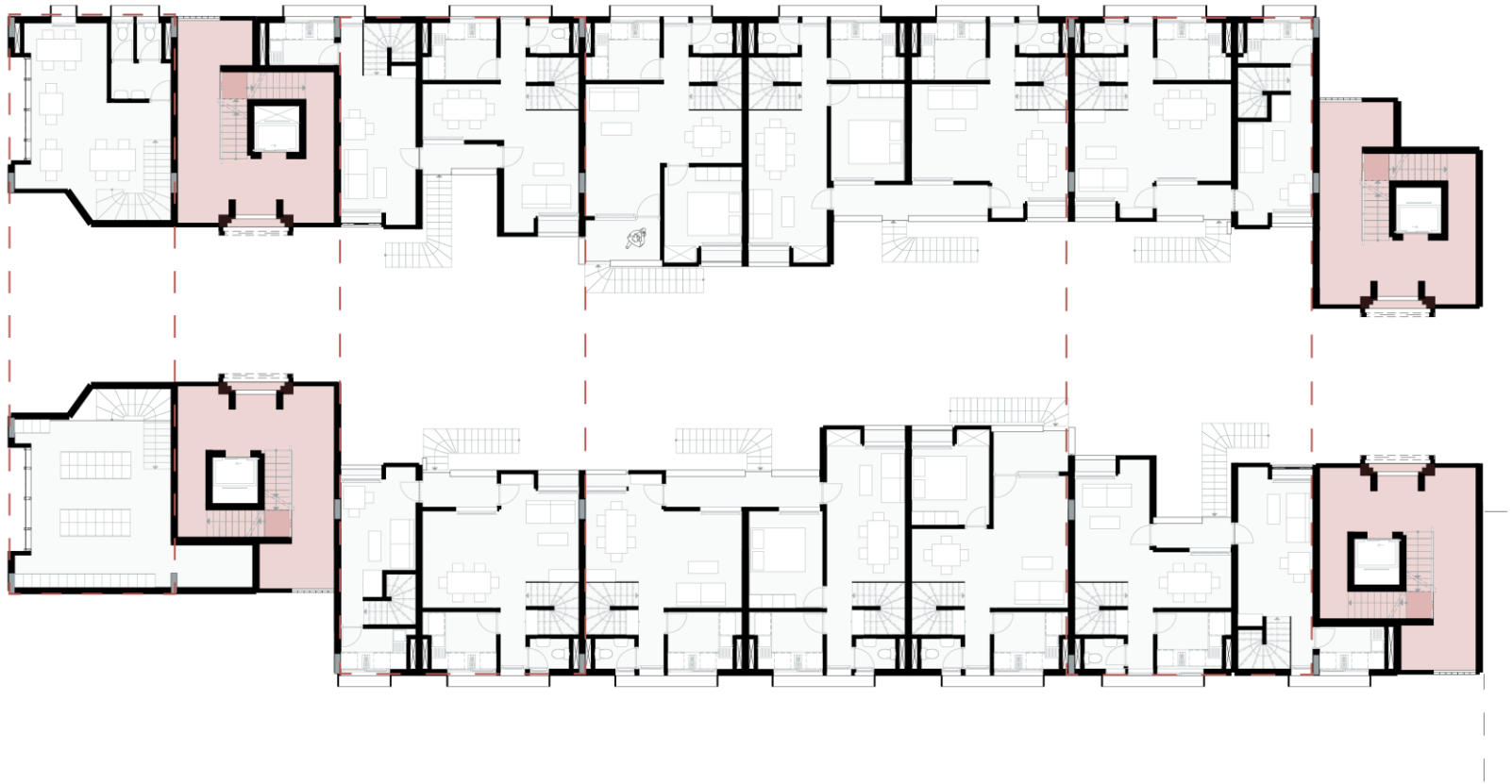
Legend



Ground Floor



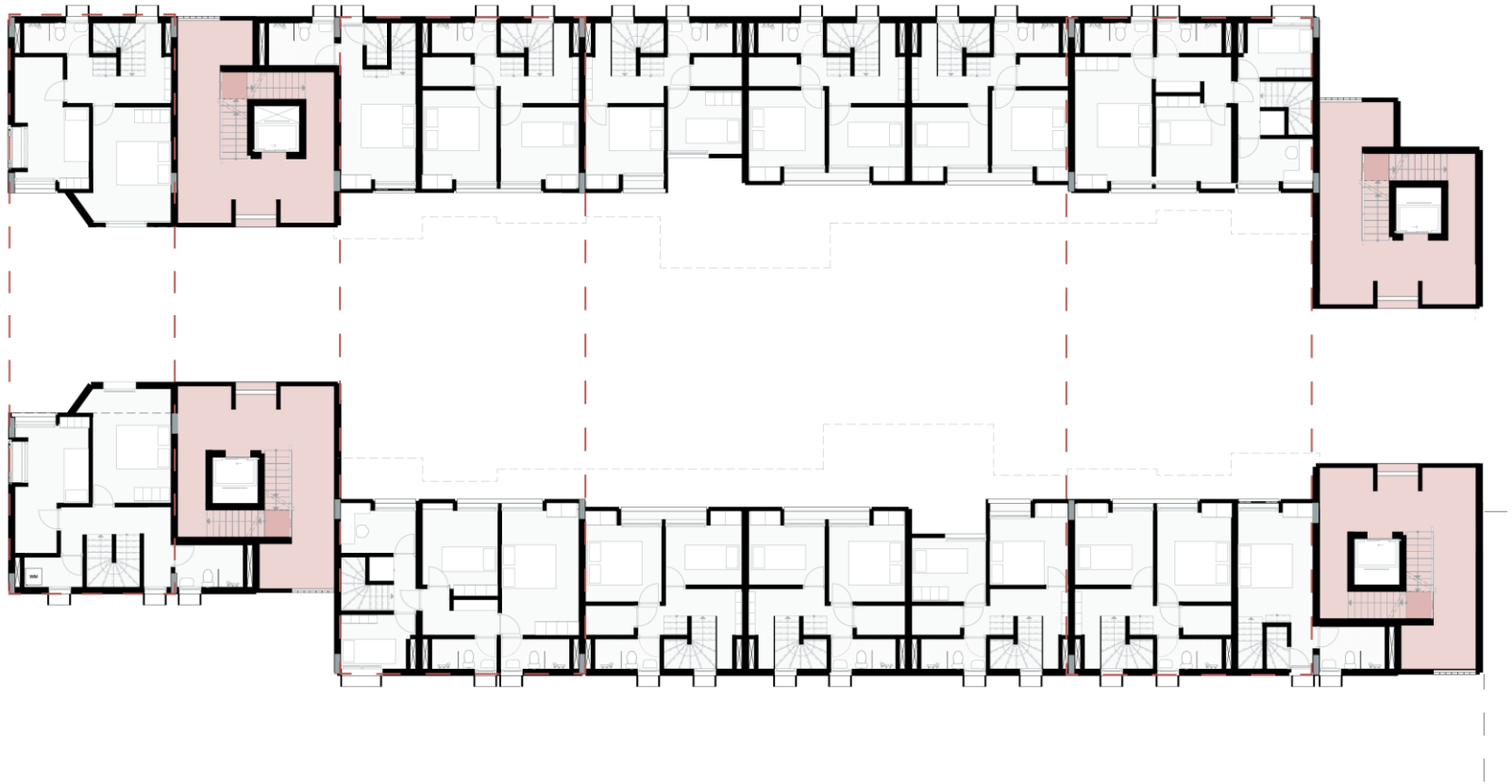
First Floor



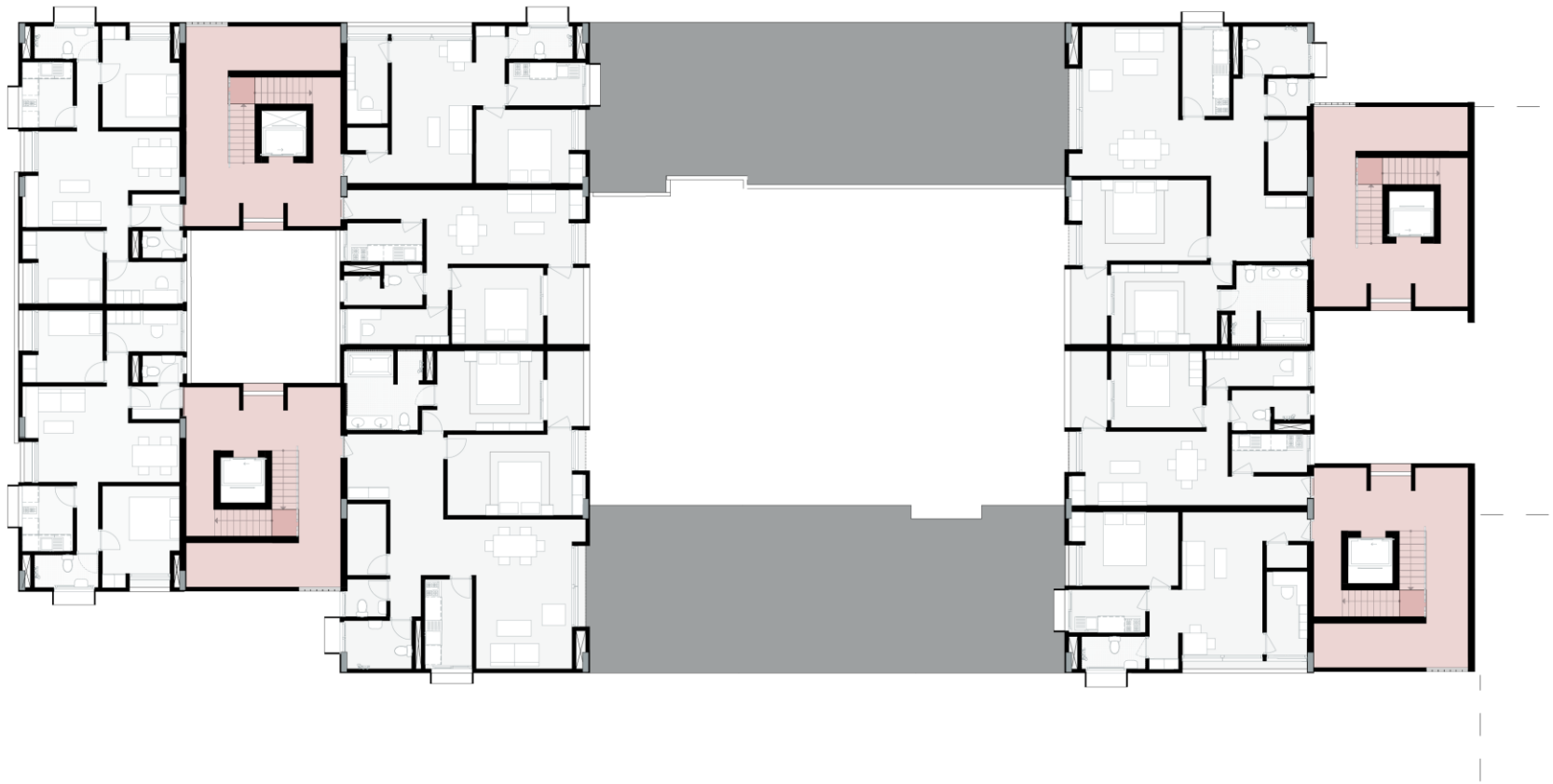
Second Floor



Third Floor



Fourth Floor



Fifth Floor



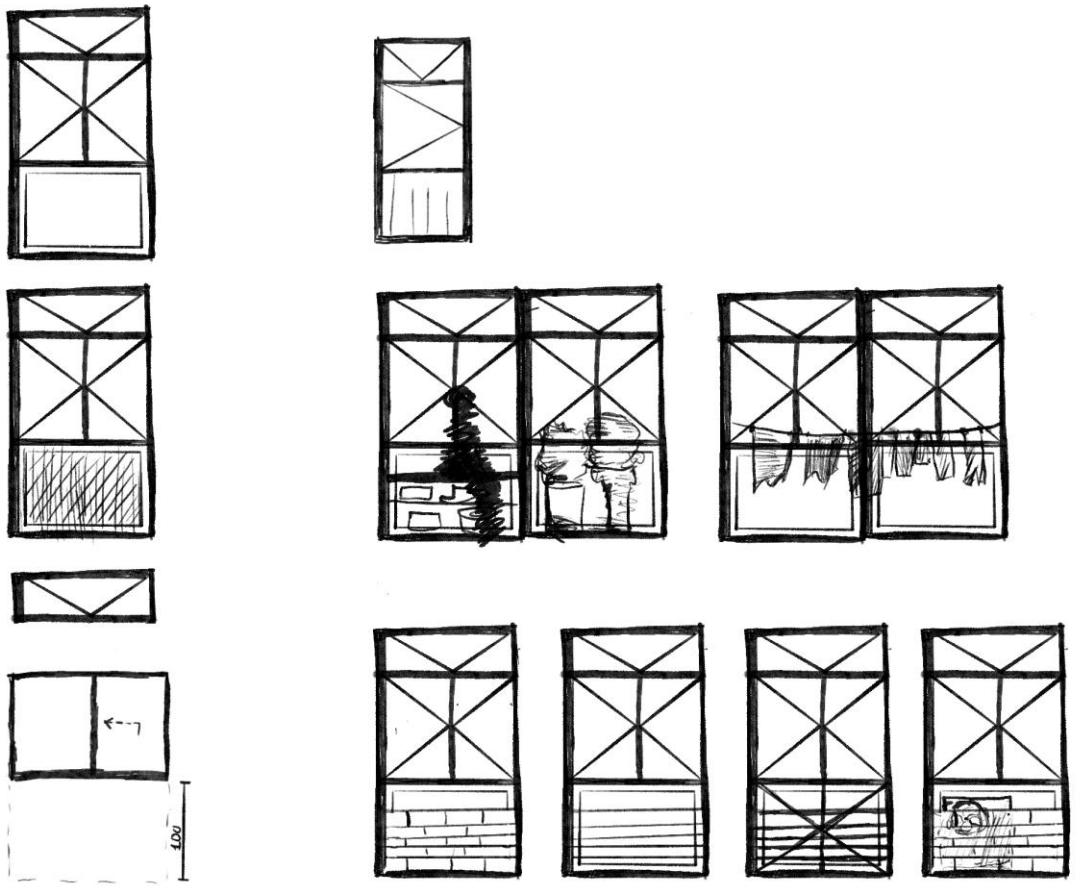
Sixth Floor



Inner Elevation

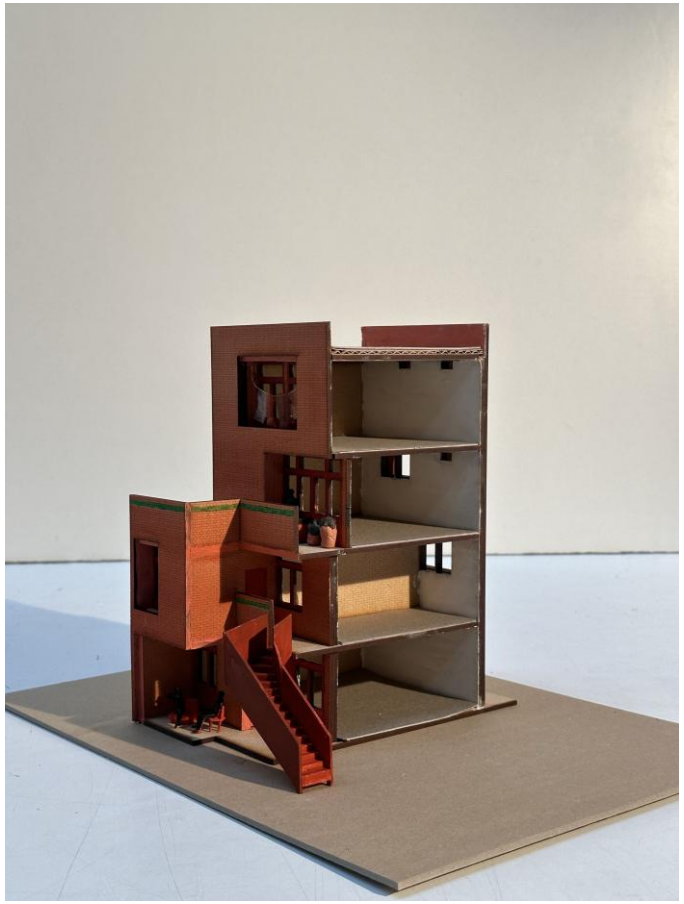


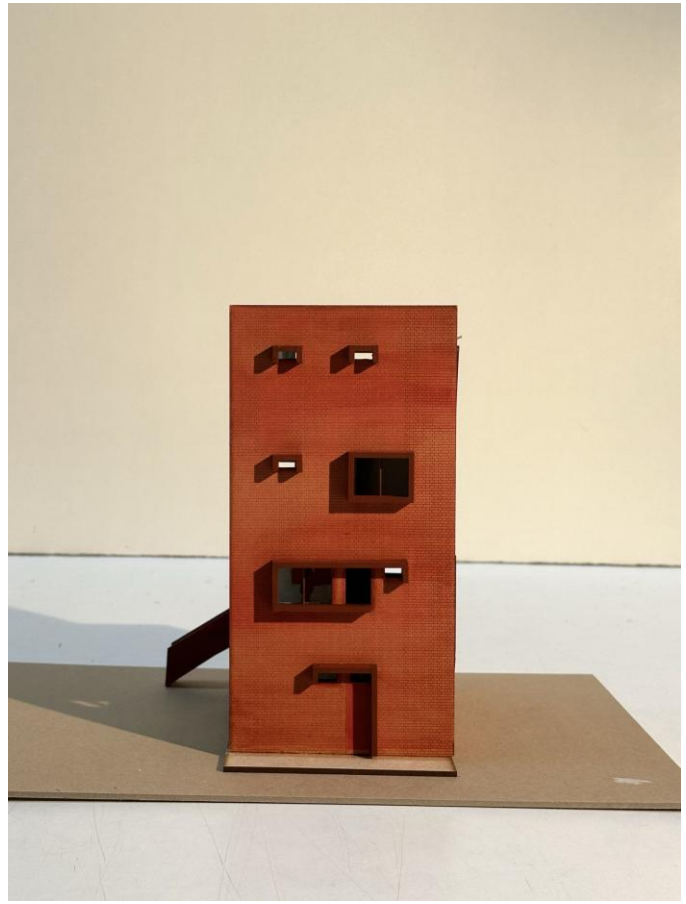
Habitat In Windows



Fragment Model







Side Elevation



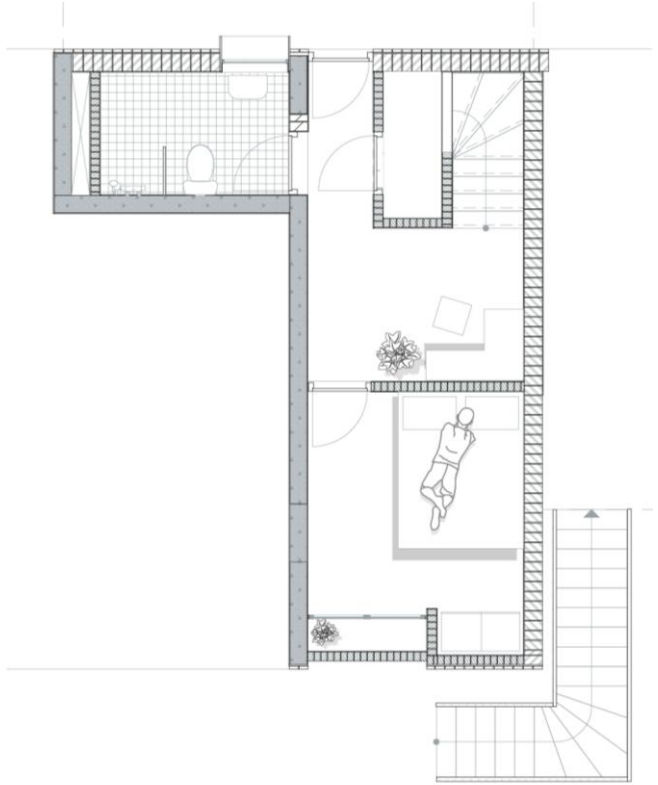


Gallery



The Unit.

Unit M1.1



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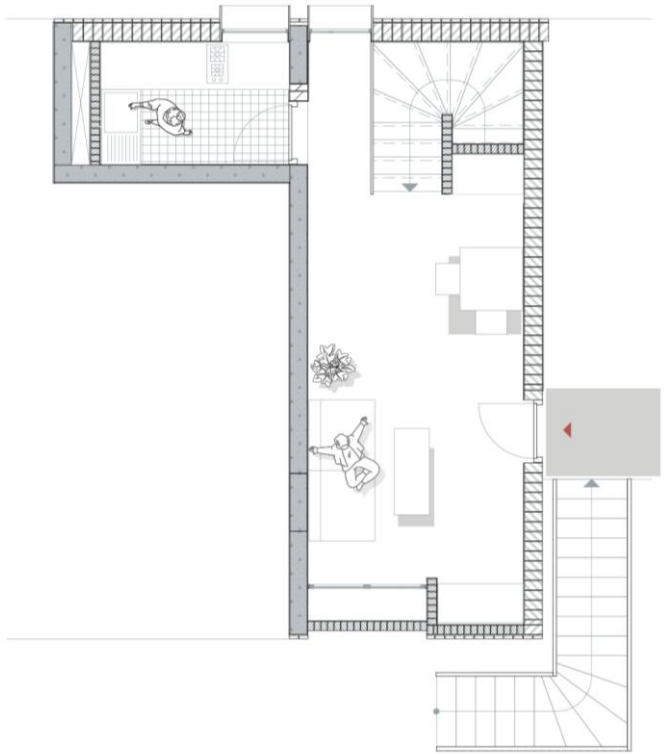

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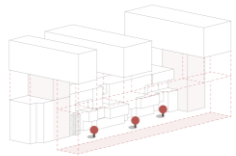
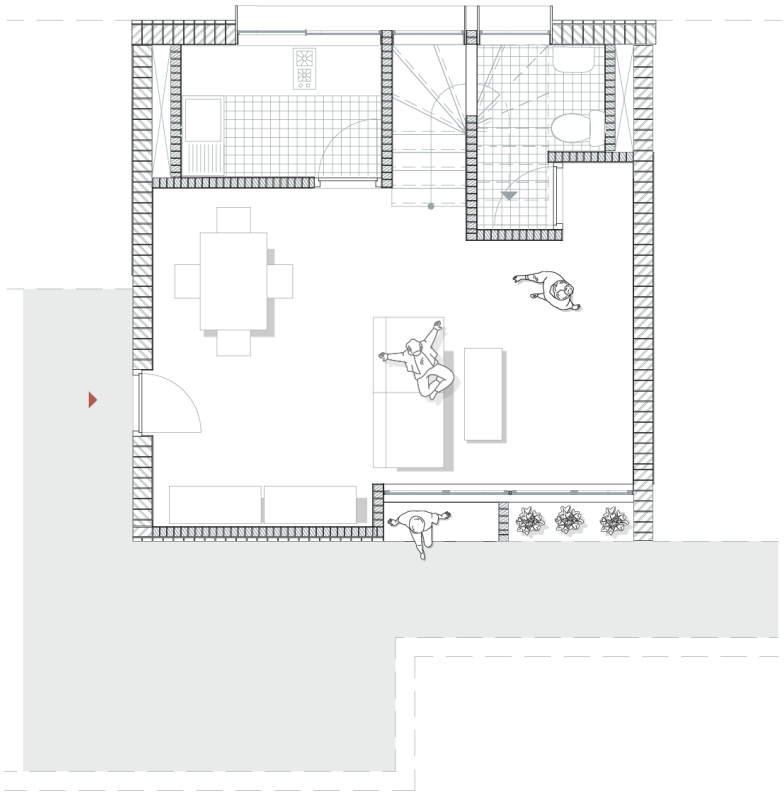


Maisonette 1.1
1BHK - 60 m²

Unit M2.1



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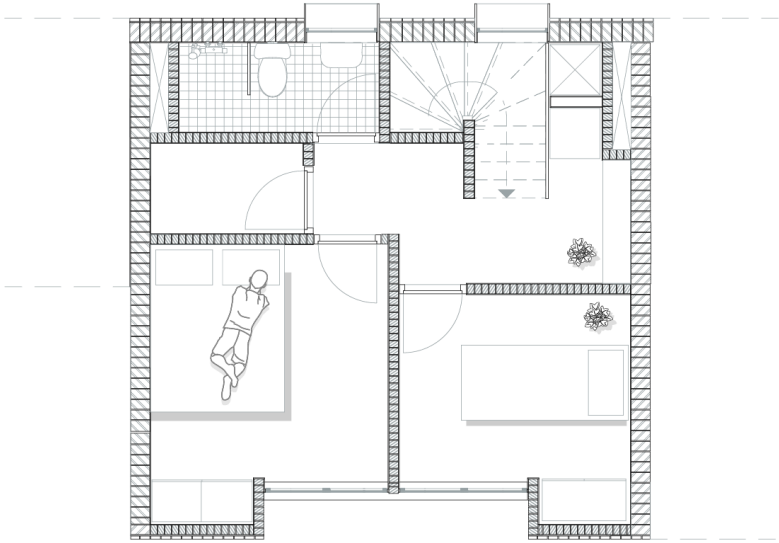

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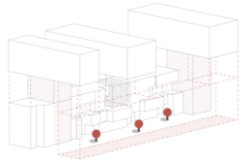
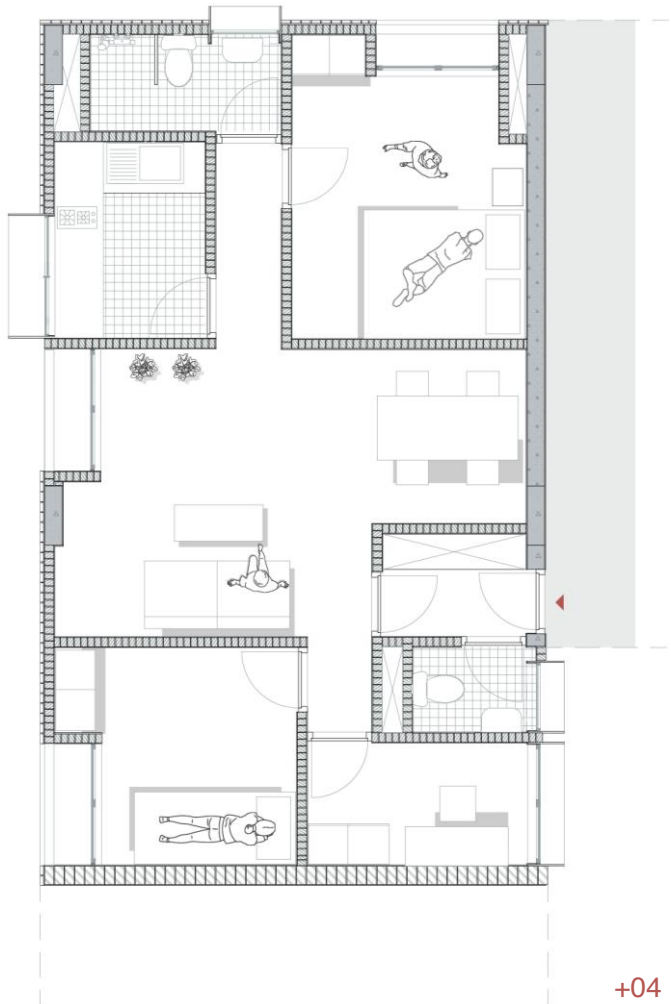


Maisonette 2.1
2BHK - 72 m²

Unit A3.1



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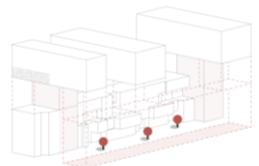
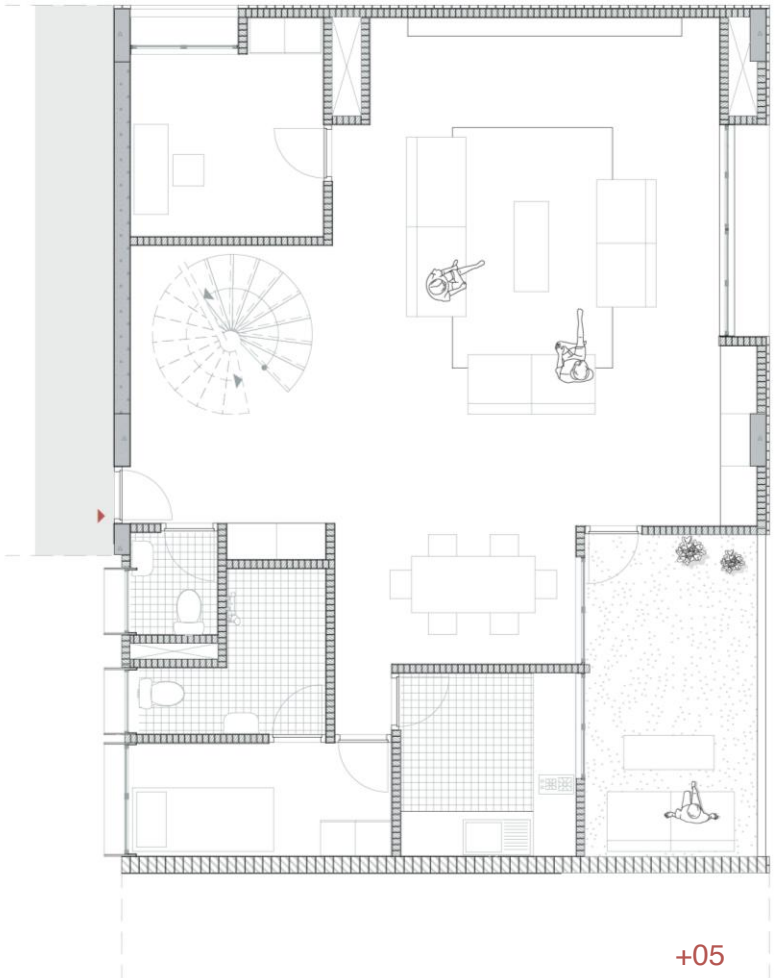


Apartment 3.1
2BHK - 65 m²

Unit M3.1



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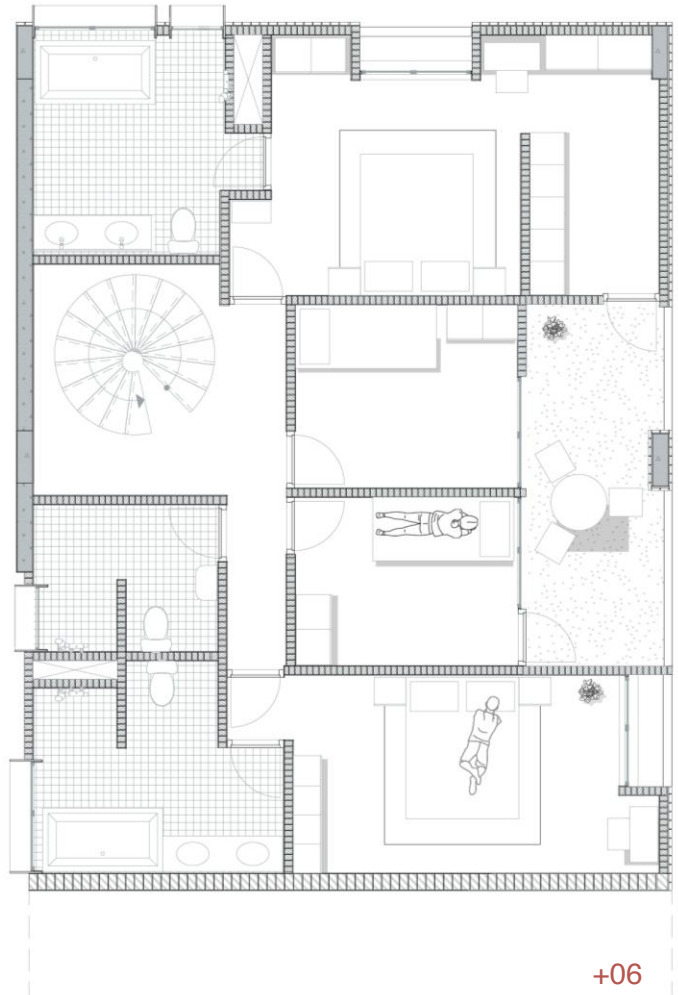

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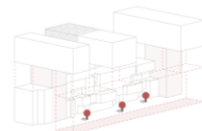

Maisonette 3.1
5BHK - 220 m²

Interior



Thank you.