



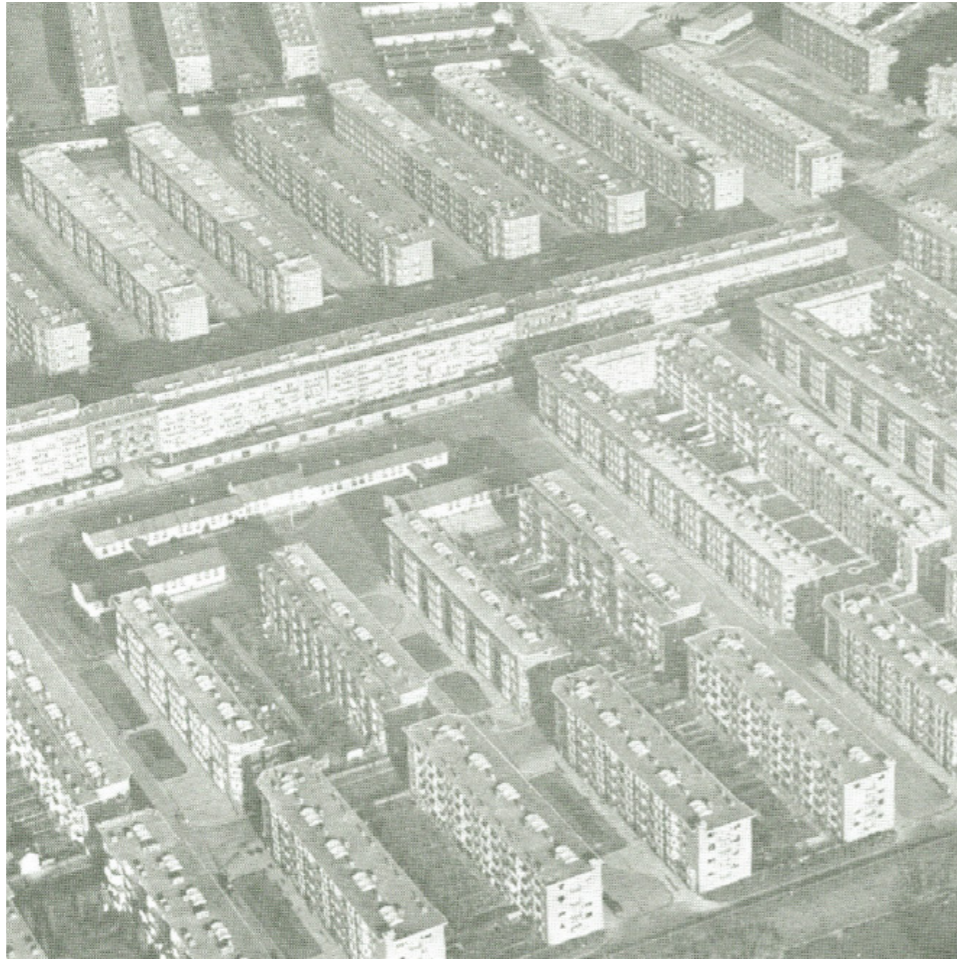
Framing Identity

*An identity-enhancing approach to the transformation
of dull post-war housing neighborhoods*

Contents

1. Problem Statement
2. Research: Identity in Post-War Housing
3. Project Site
4. Framing Identity: Concepts
5. Framing Identity: Transformation Design
6. Conclusions & Acknowledgments





“feeling that you are somebody living somewhere”

[Peter Smithson, *Forum 7*, 1959]



L'habitat pour le plus grand nombre



L'habitat pour le plus grand nombre

POST-WAR



Lack of housing



Technological integration



Questions of style

POST-WAR



Lack of housing



Technological integration

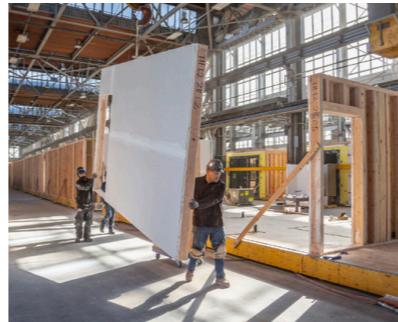


Questions of style

TODAY



Lack of housing



Technological integration



Climate change

POST-WAR



Lack of housing



Technological integration



Questions of style



TODAY



Lack of housing



Technological integration

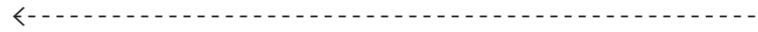


Climate change



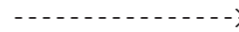
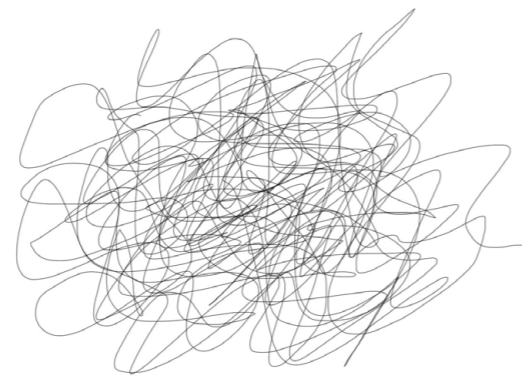
60%
of the European housing stock

- Technically obsolete
- Socially obsolete
- Necessary in housing crisis
- Opportunity for transformation



(1945-1980)
Post-War Era

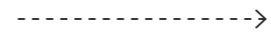




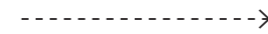
“identity”

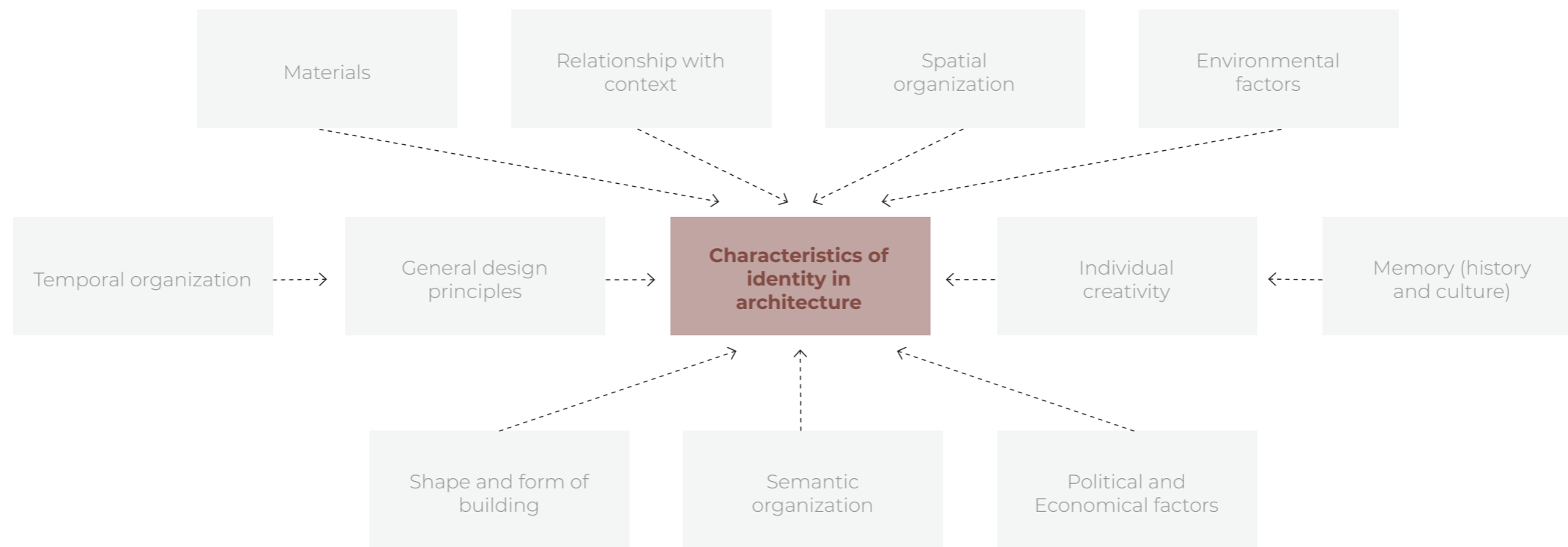
Identity

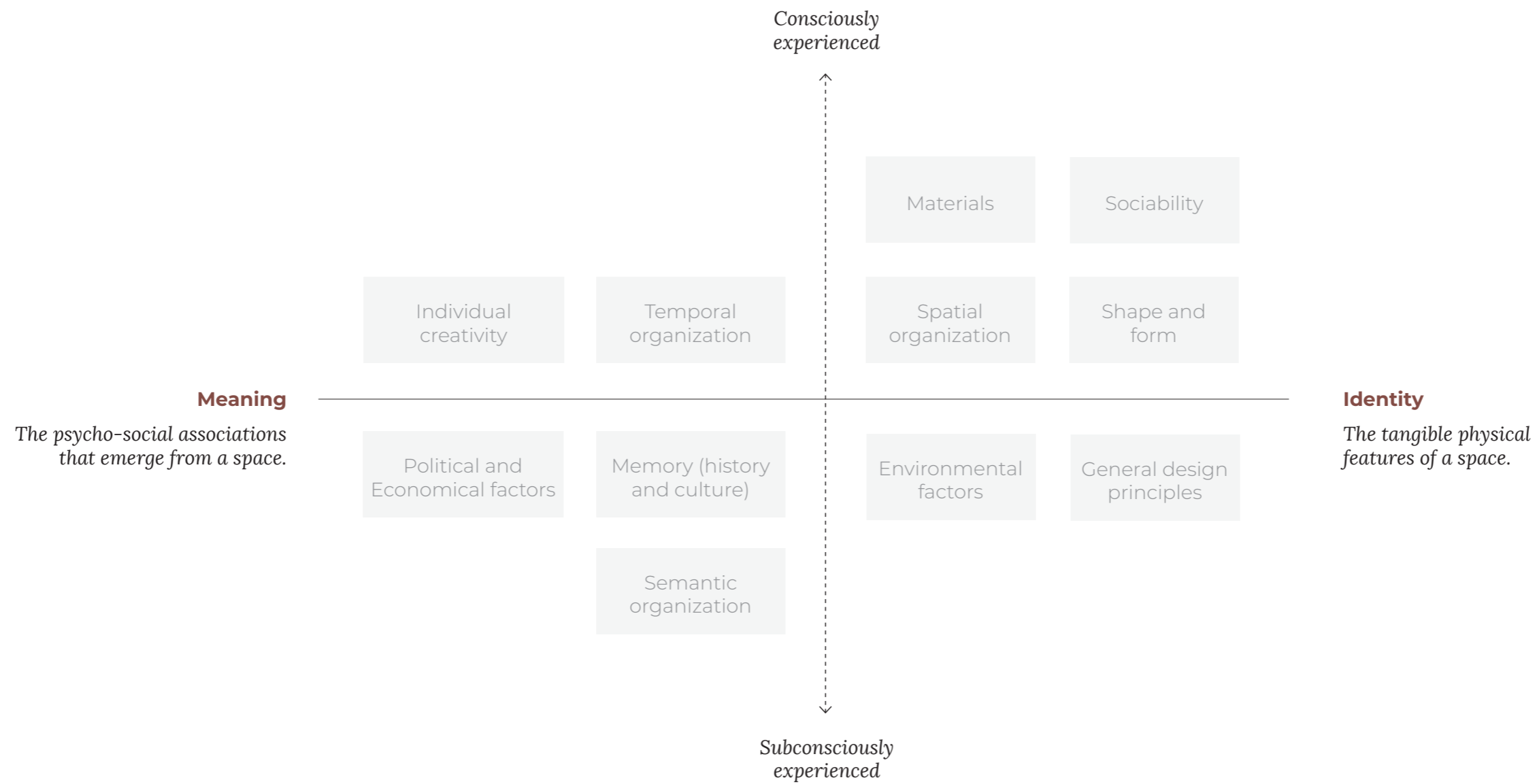
Identity

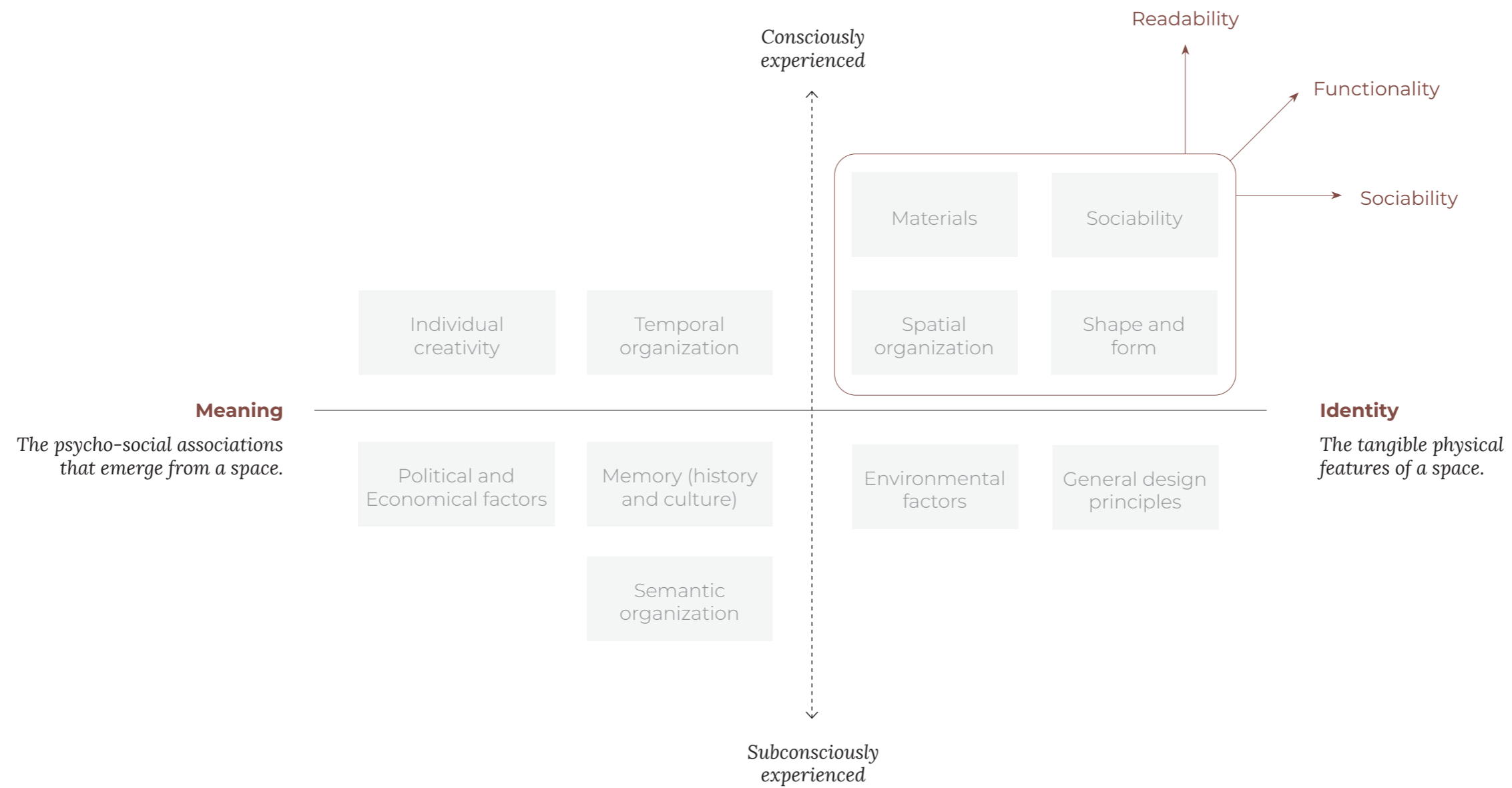


Post-war neighbourhood

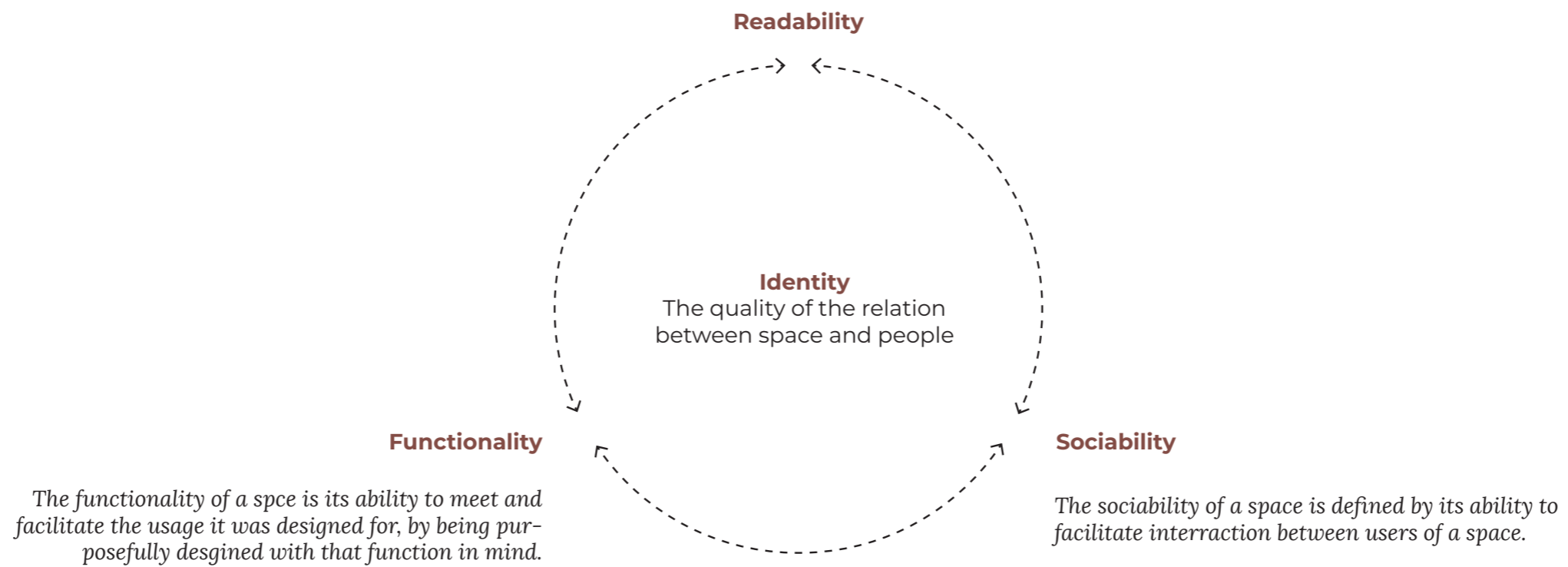




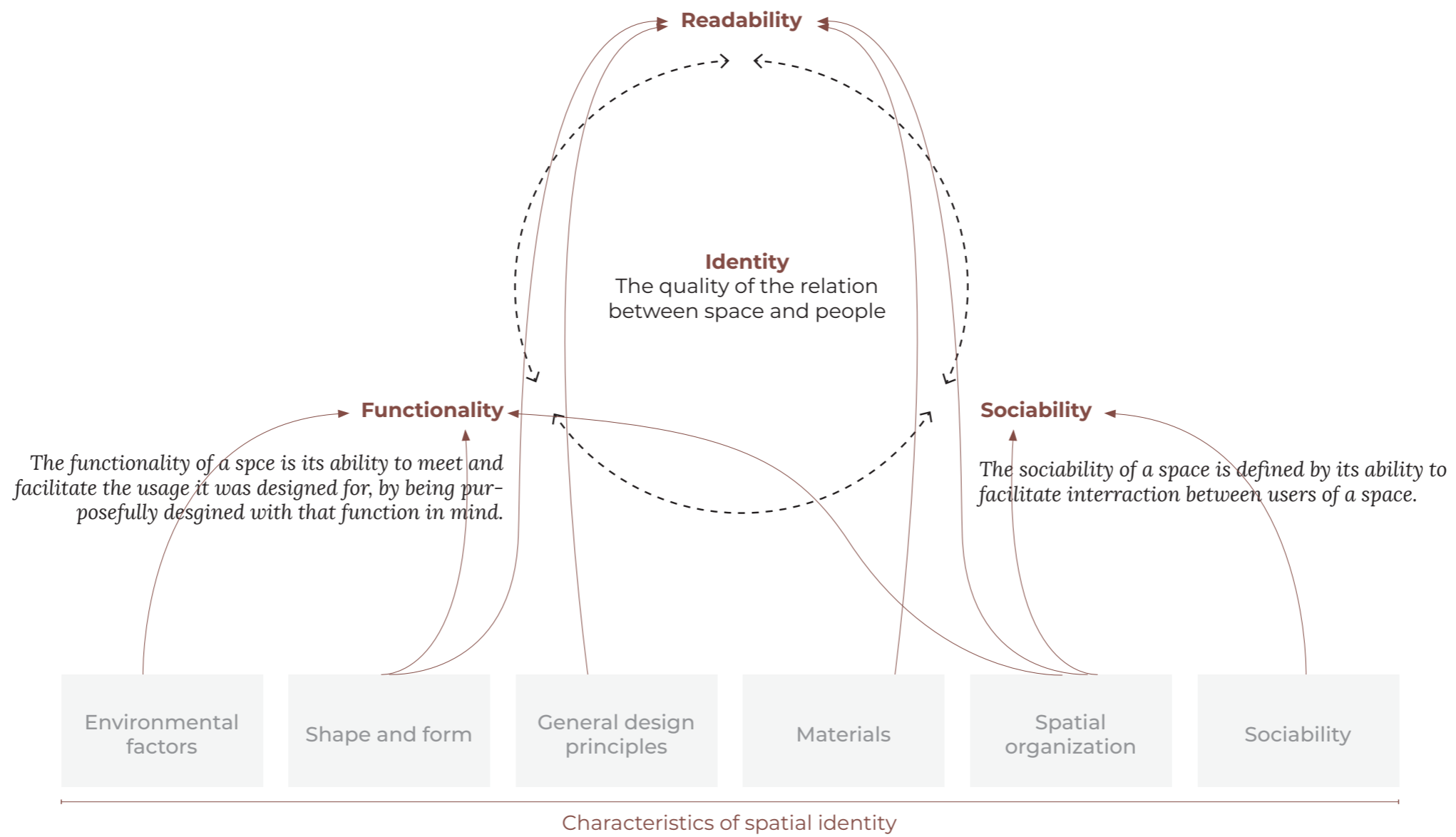


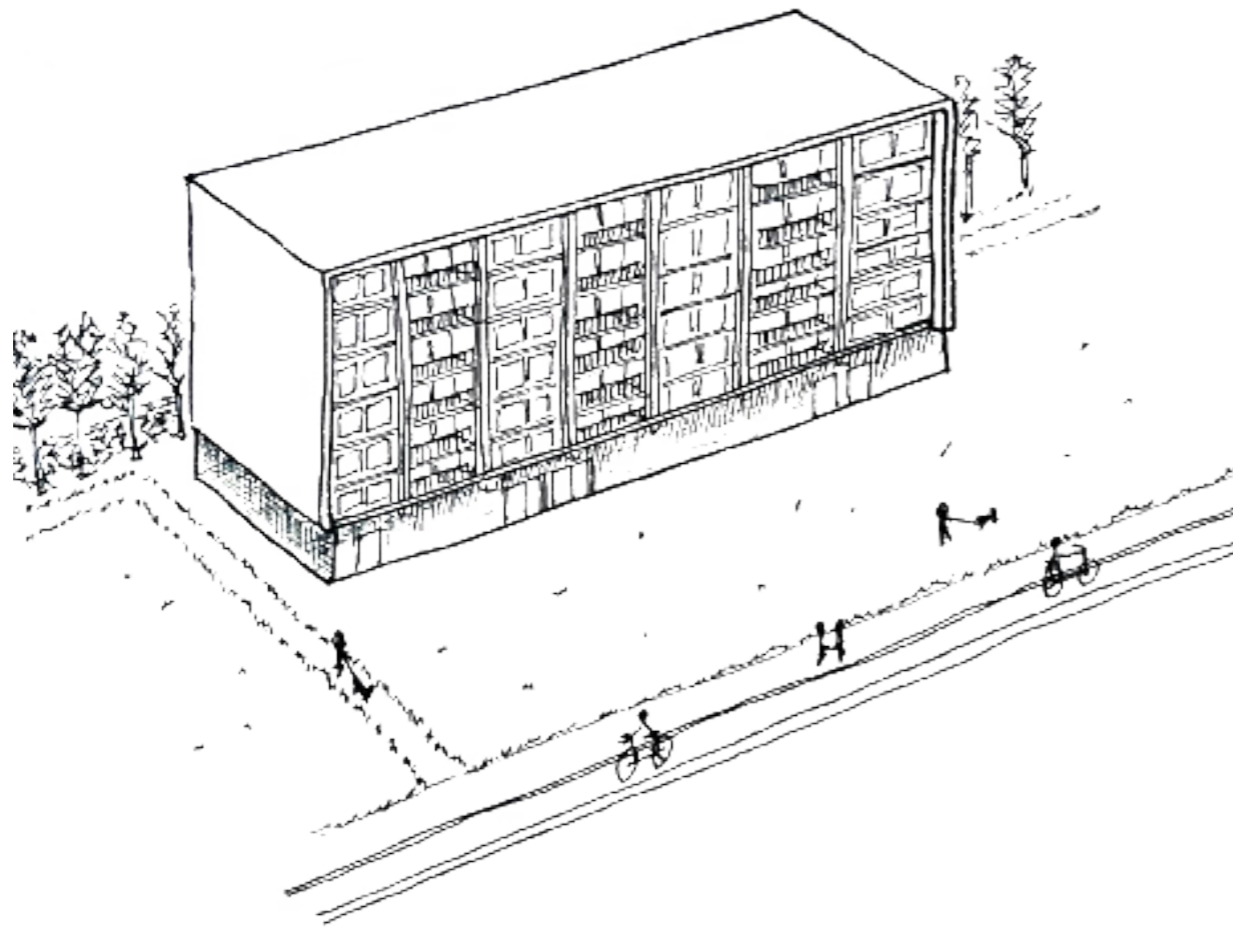


The readability of a space refers to the ability of a user to recognize and understand the formal organisation, function, spatial layout and circulation patterns of a space.



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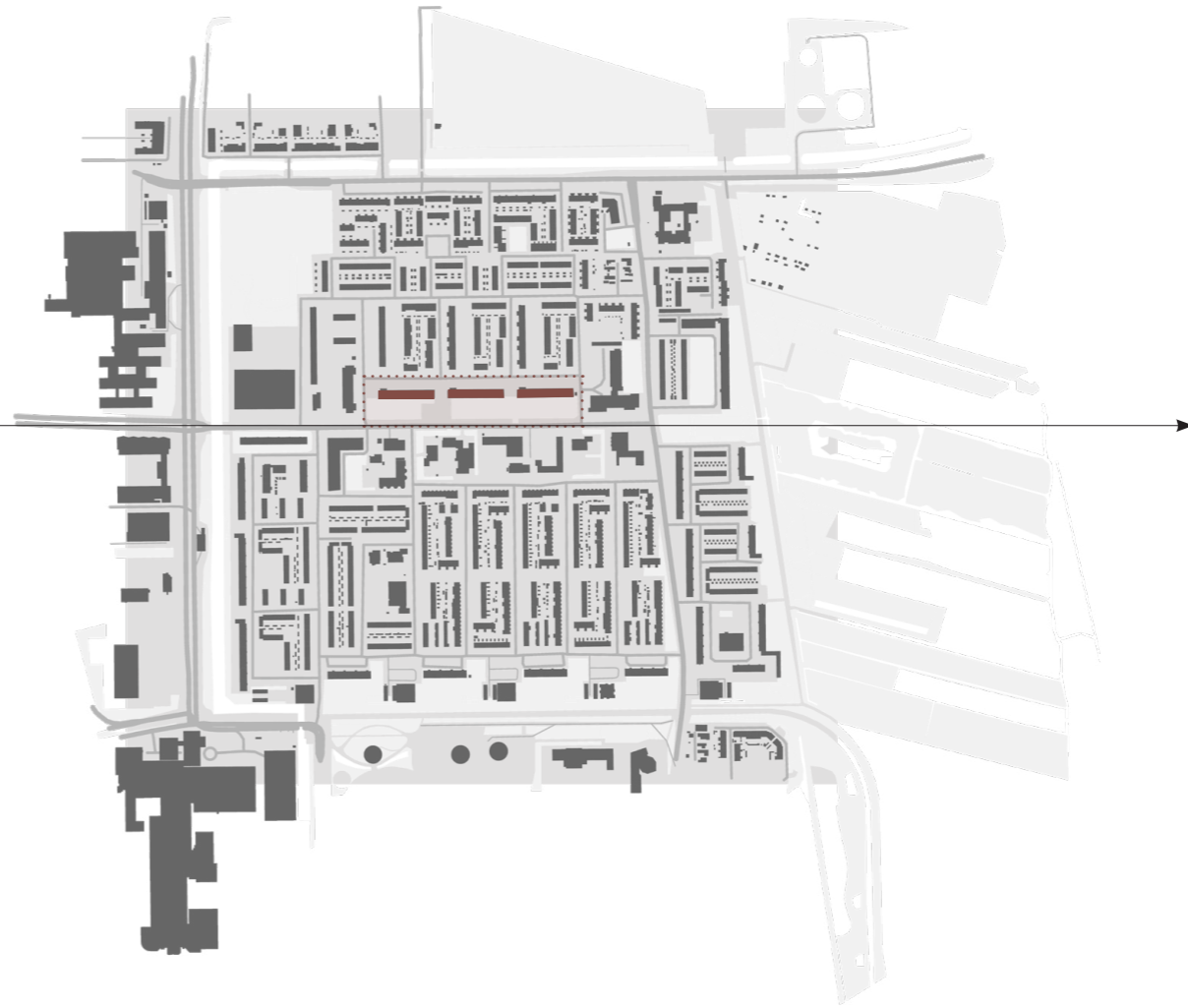
6 scales of identity:

- Plot
- Plinth
- Facade
- Interior
- Details



Schalwijk district, Haarlem
Boerhaavewijk neighborhood

Boerhaavewijk
Floris van Andrichemlaan



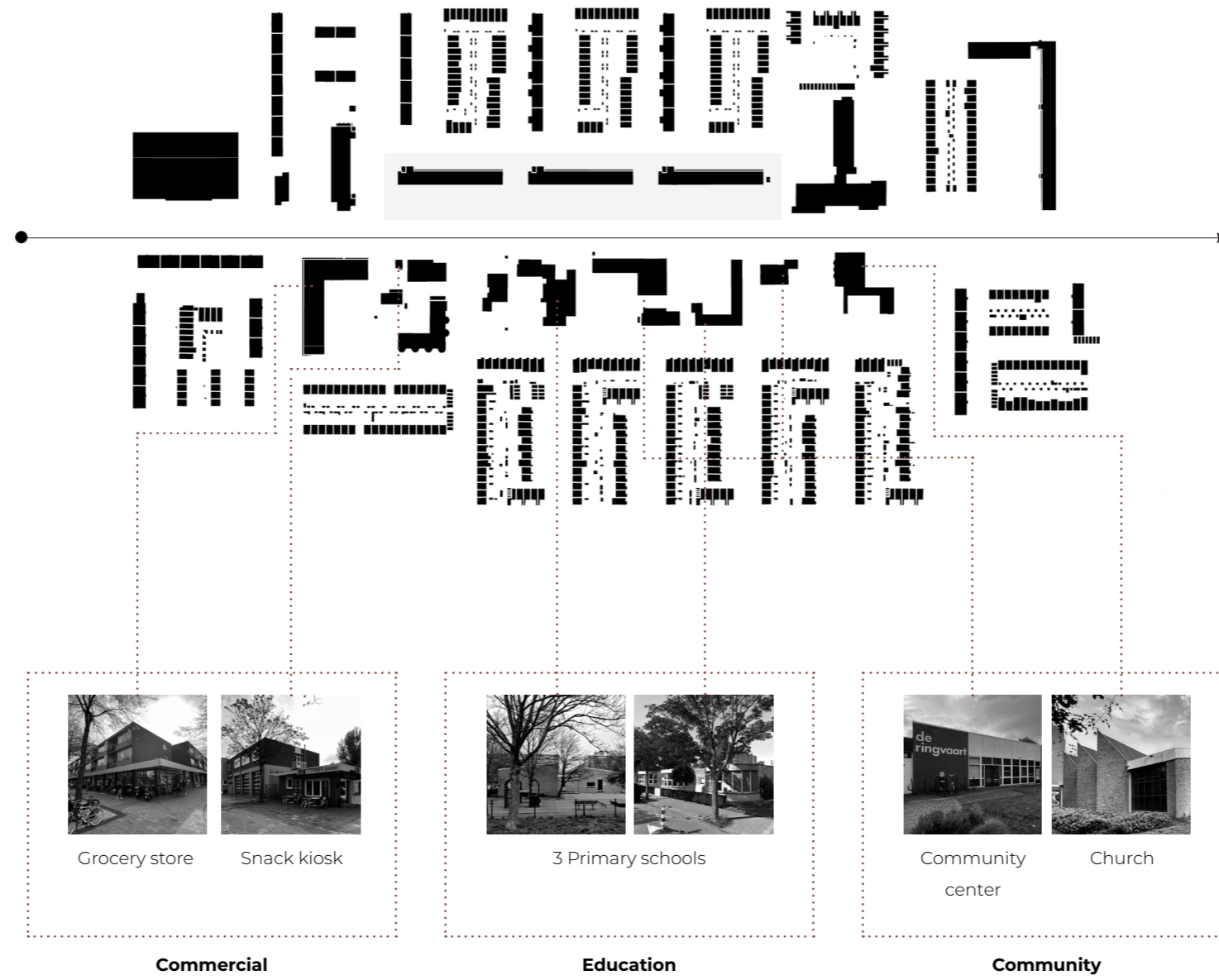






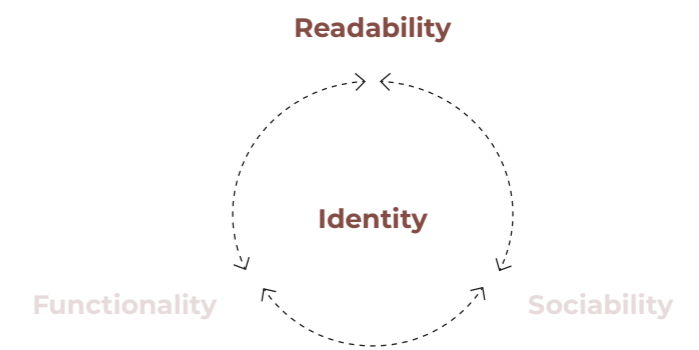
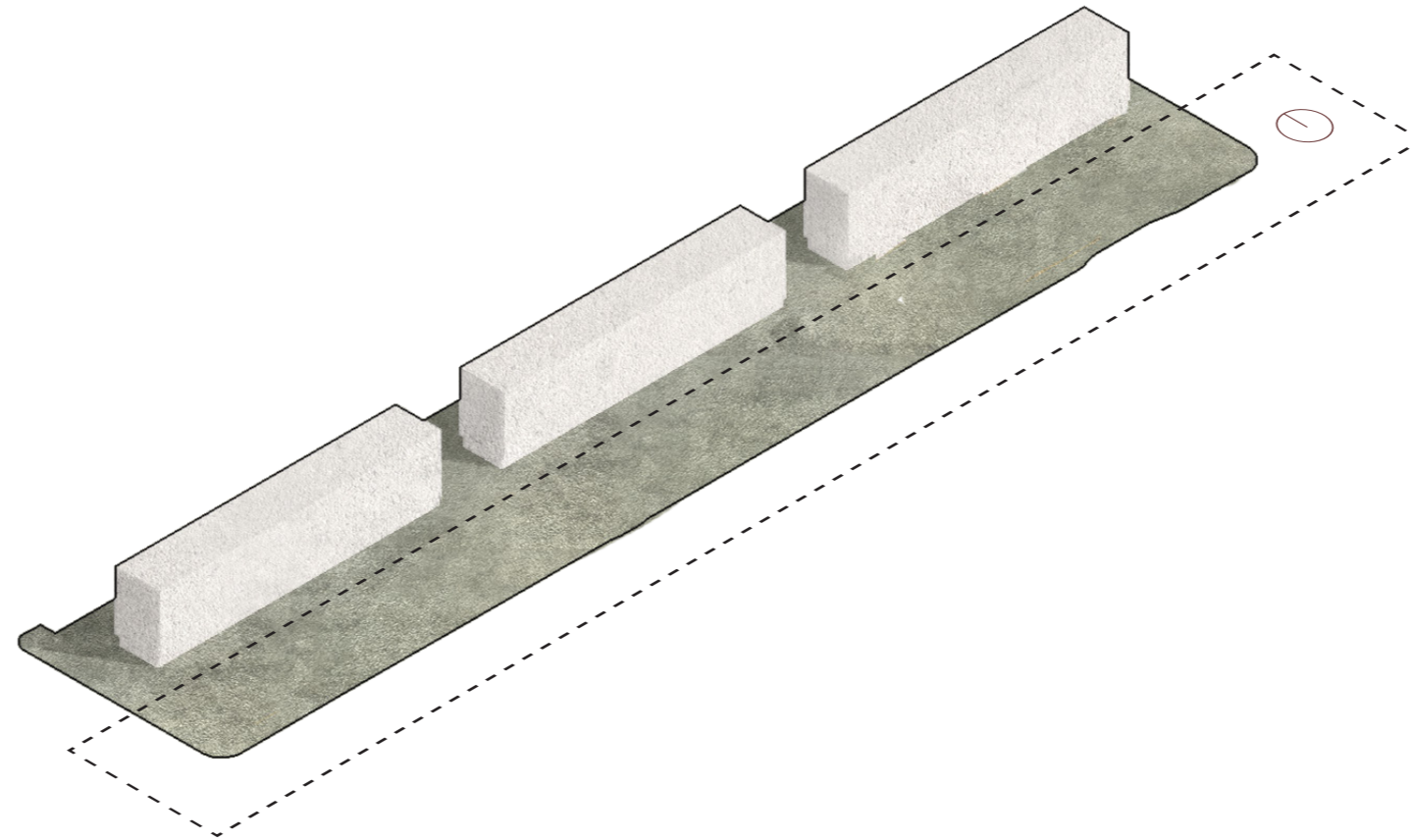






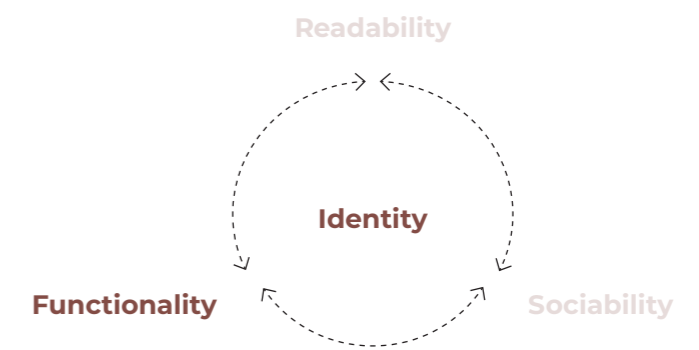
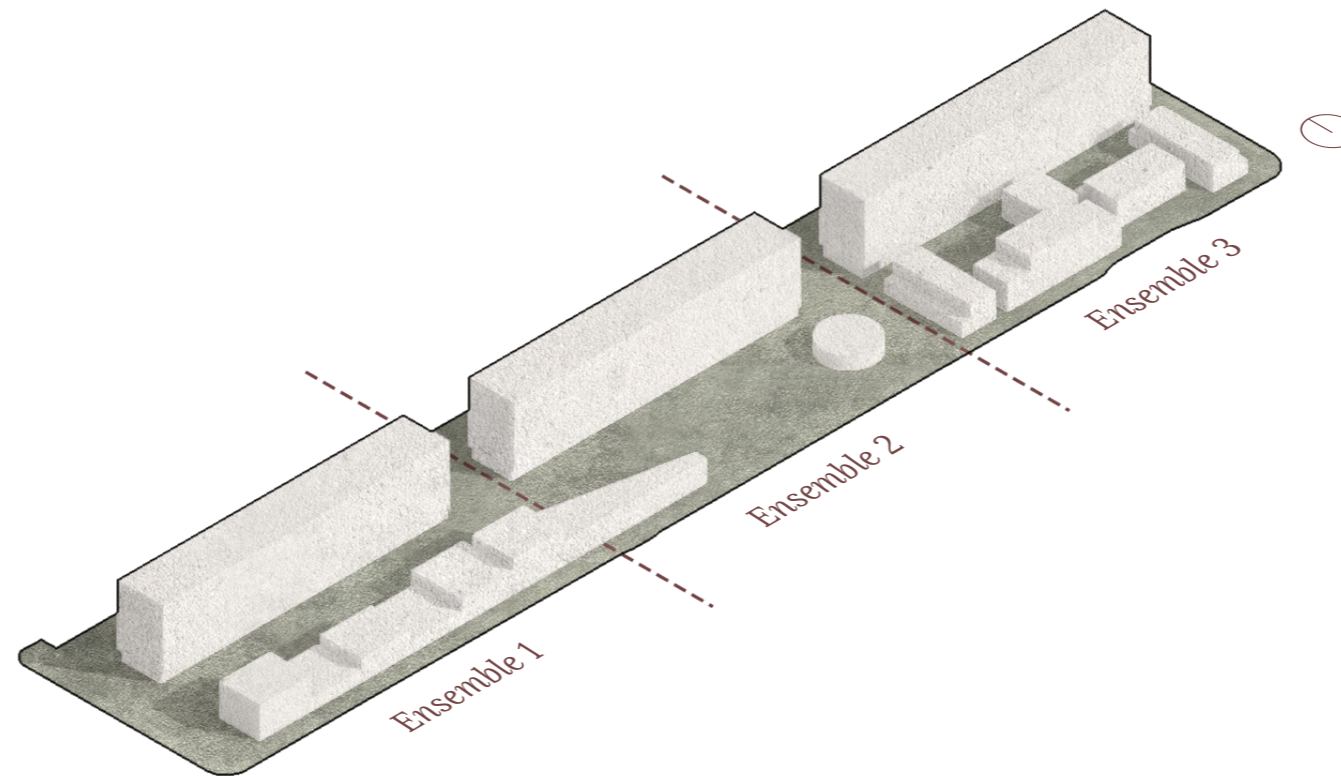
1. PLOT

Concept - *Densification*



1. PLOT

Concept - Urban Ensembles





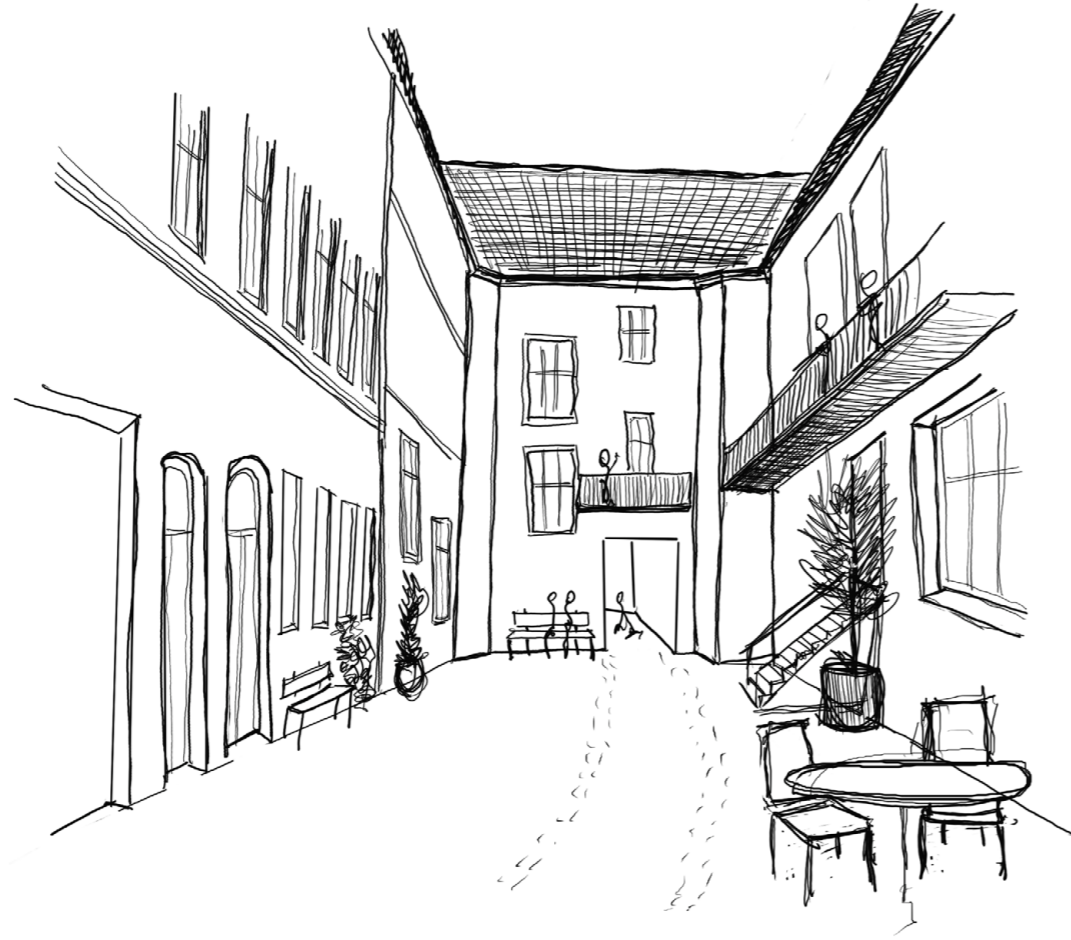
The Commercial City Street

- Narrow
- Open plinth
- Space to stay and observe
- Space to move forward
- Landmark for orientation



The Green City Square

- Spatially enclosed, node of access points
- Surrounded by diverse functions
- Close to a landmark
- Central meeting point
- Points of observation



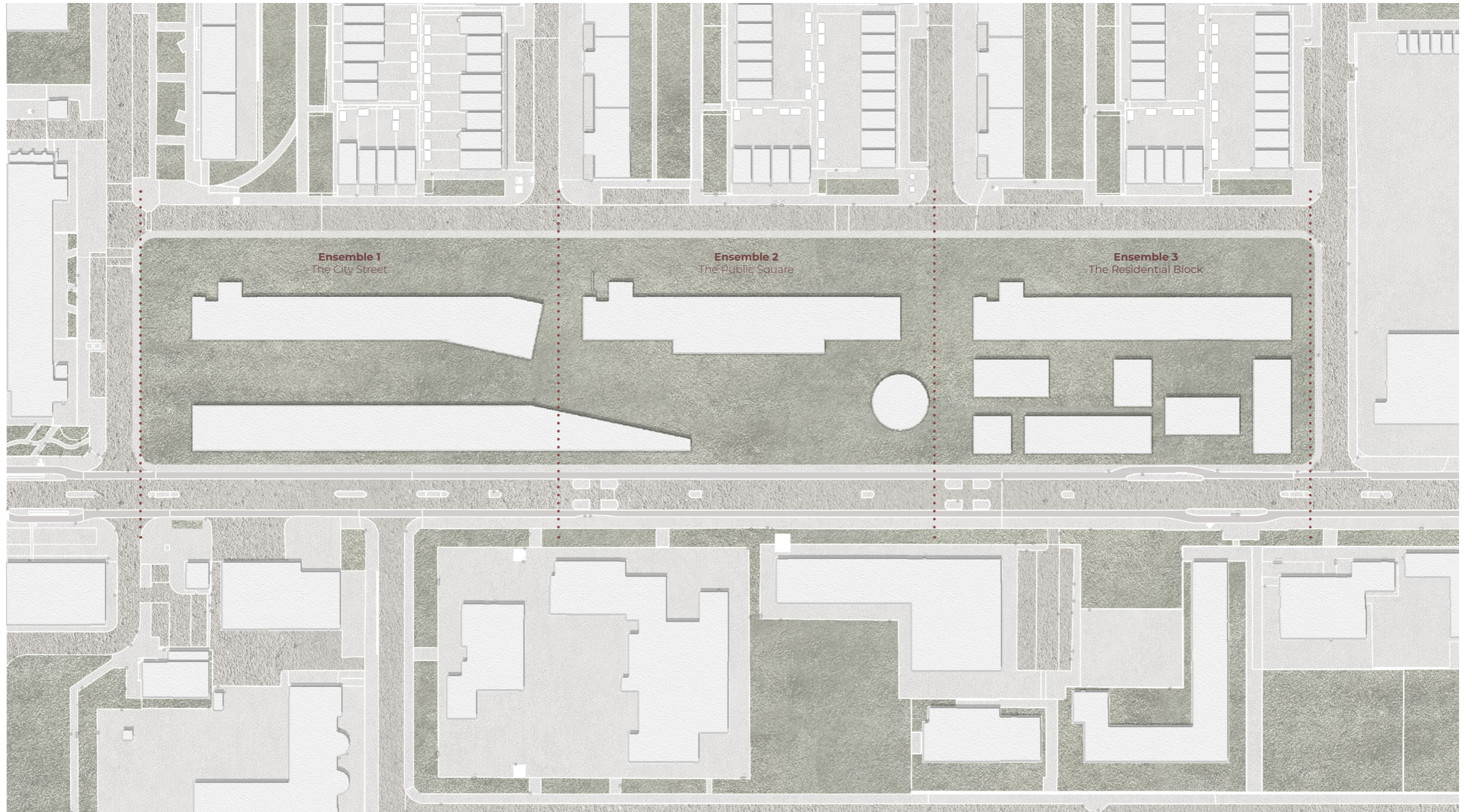
The Inner City Residential Block

High density

Communal

Shared spaces (courtyard)

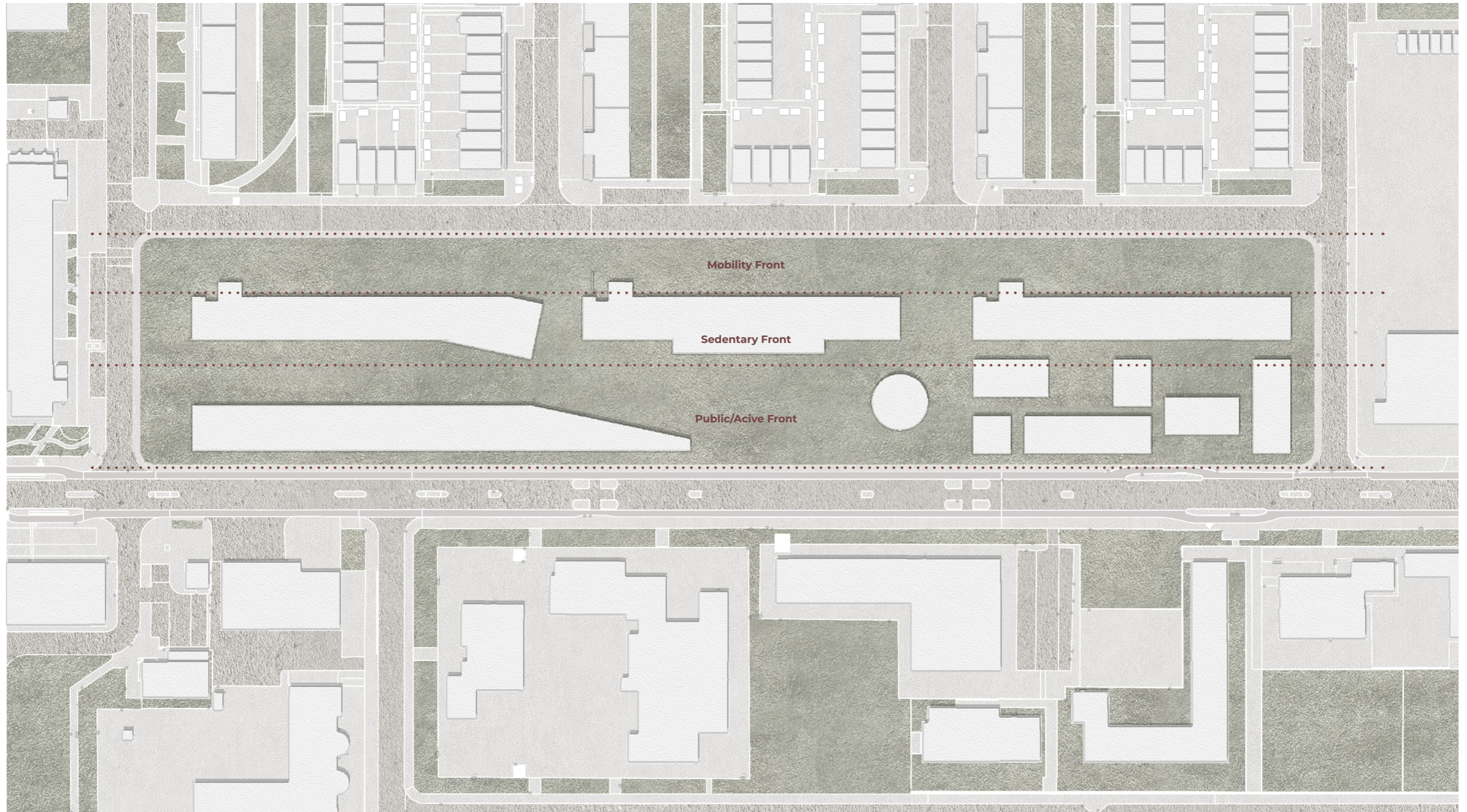
No obvious access, but strong connectivity to other dwellings and to public amenities



CONCEPT SITE PLAN

Scale 1:1000

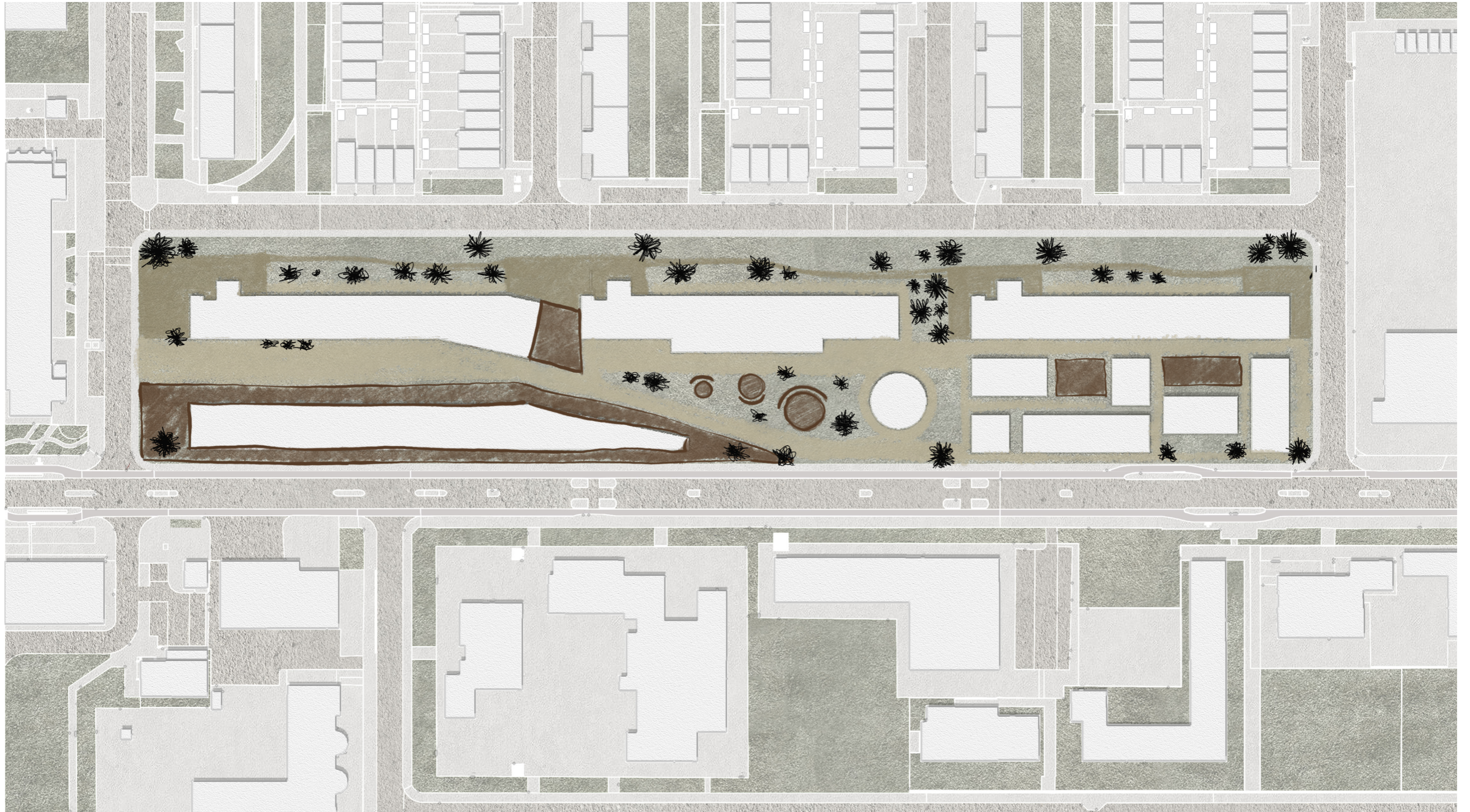




CONCEPT SITE PLAN

Scale 1:1000





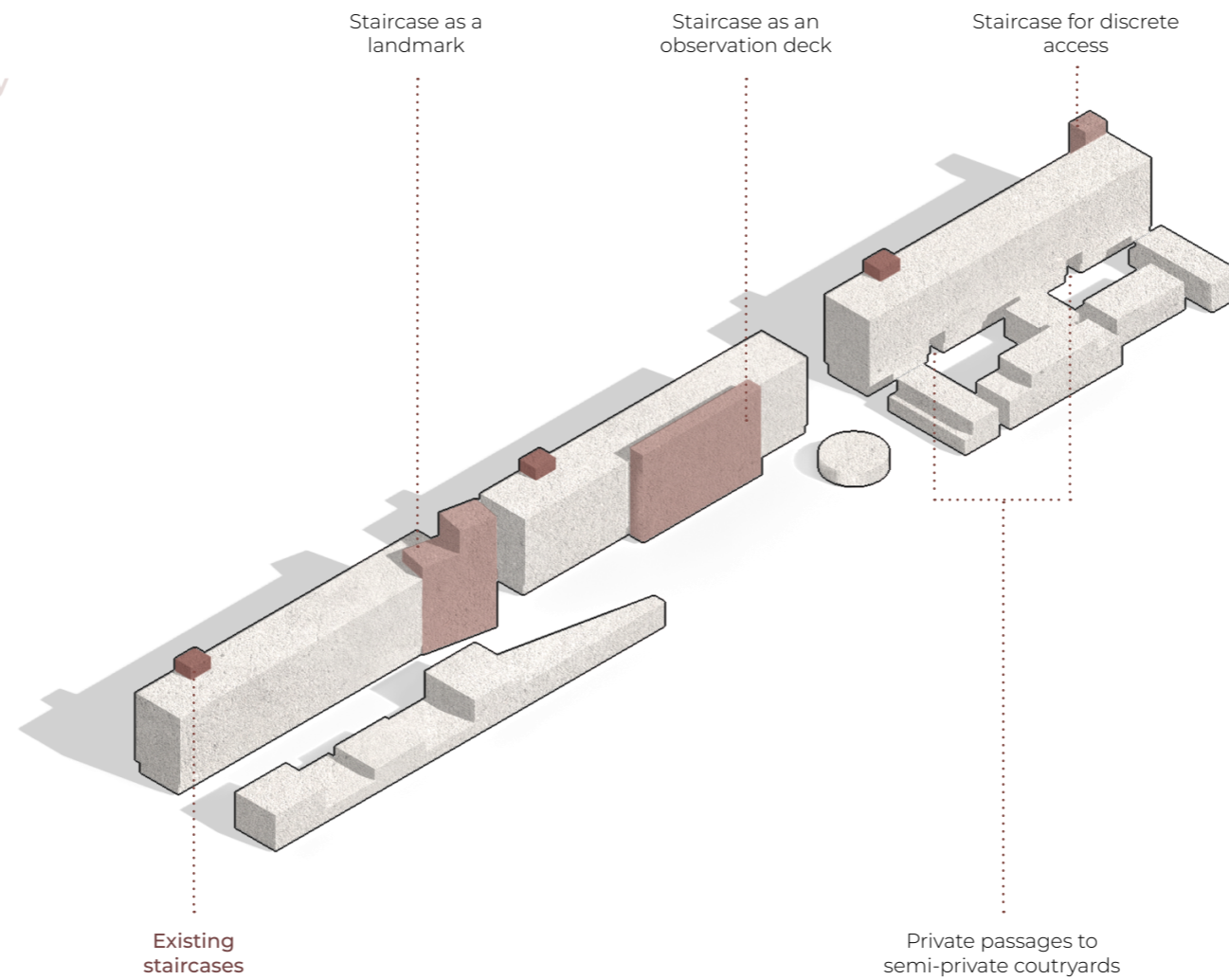
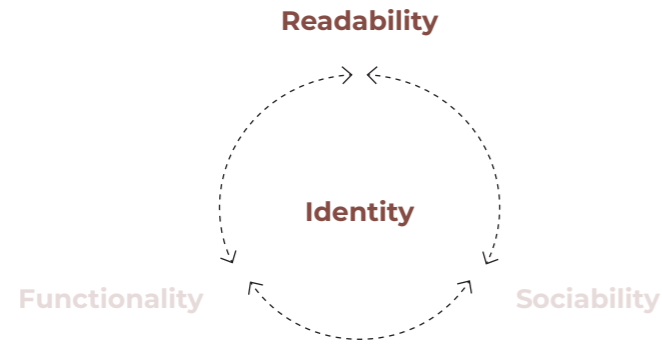
CONCEPT SITE PLAN

Scale 1:1000



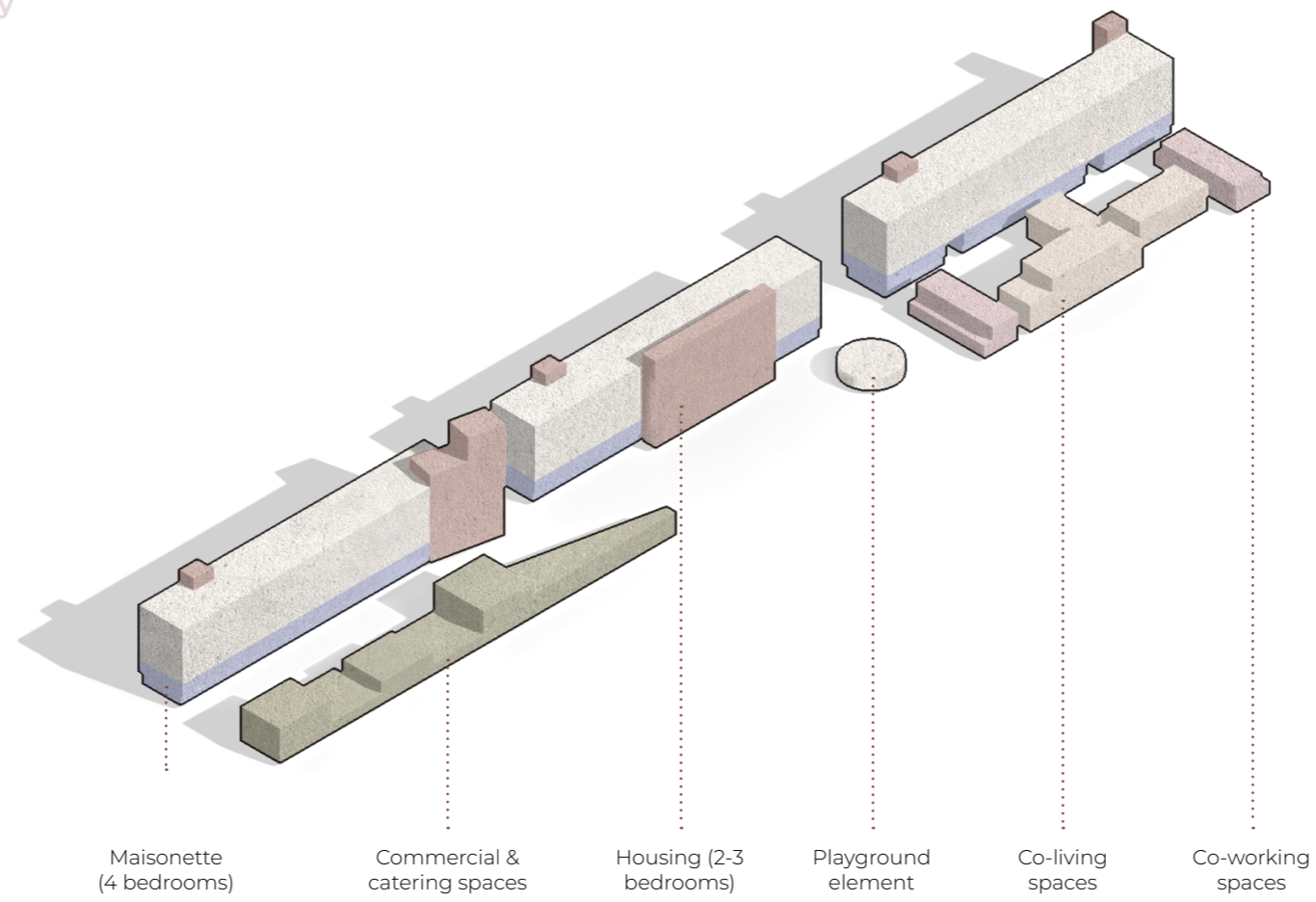
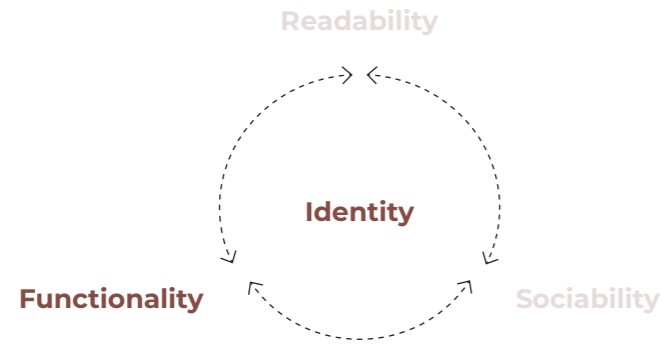
1. PLOT

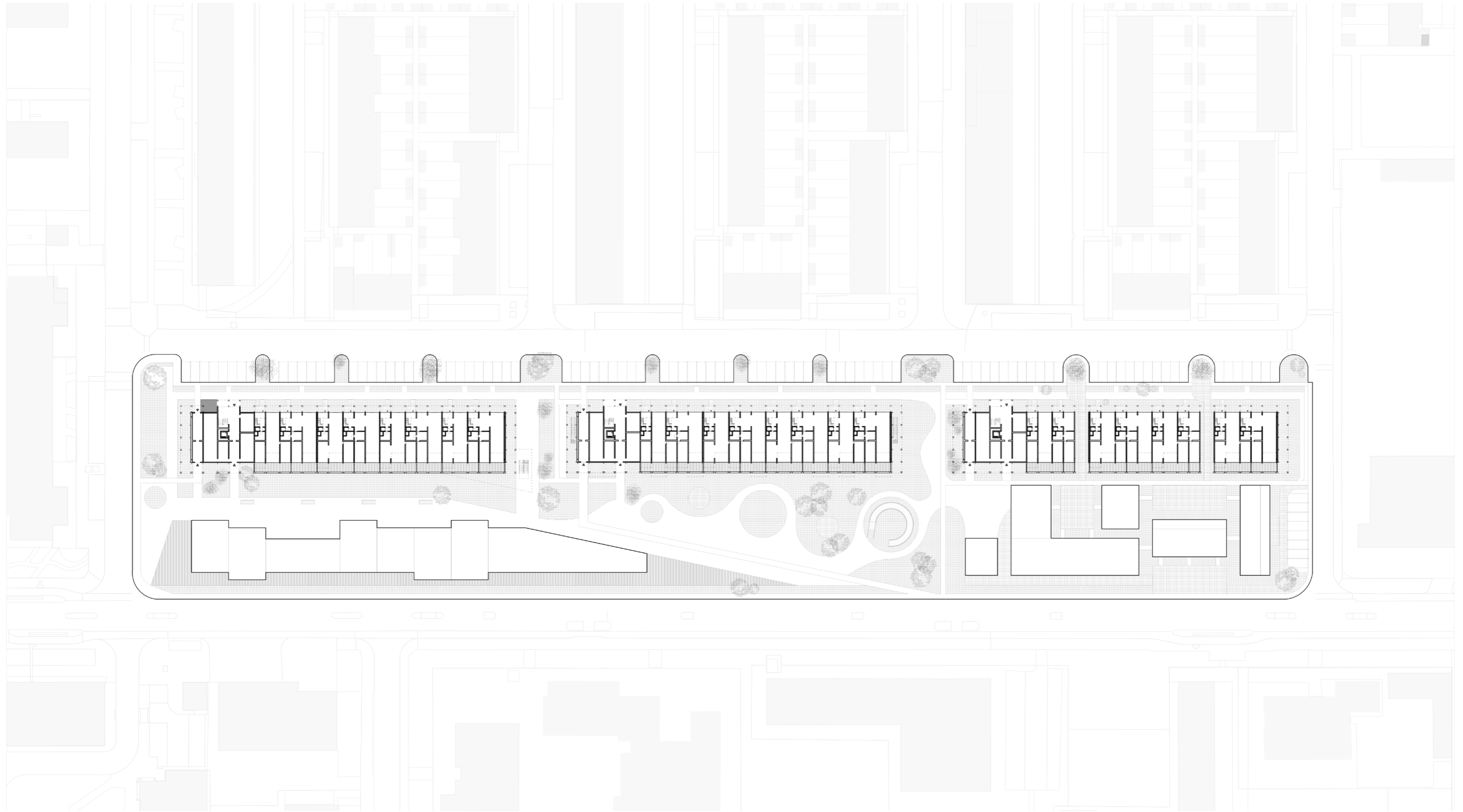
Concept - Strategic routing



1. PLOT

Concept - Functional organisation

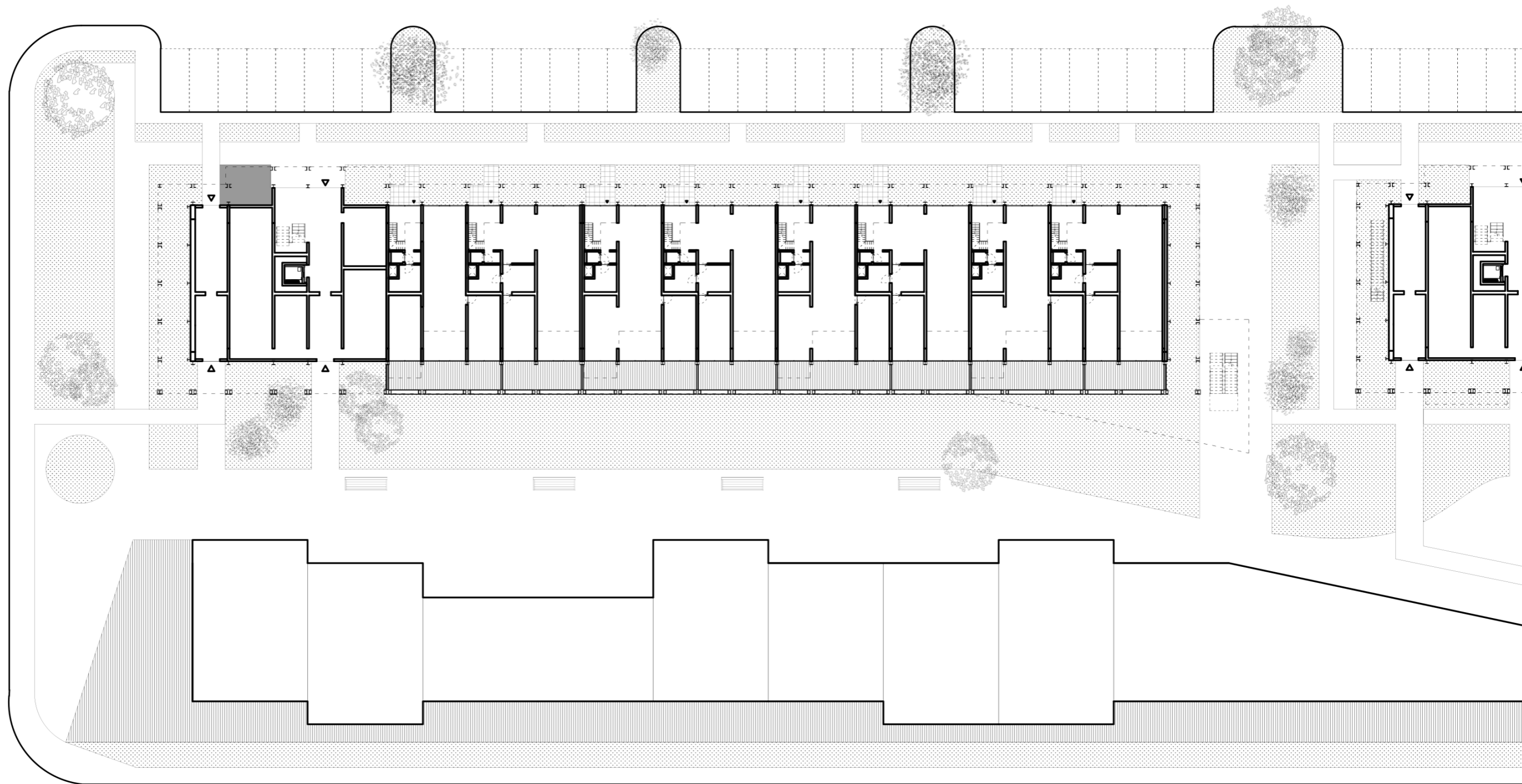




1. PLOT

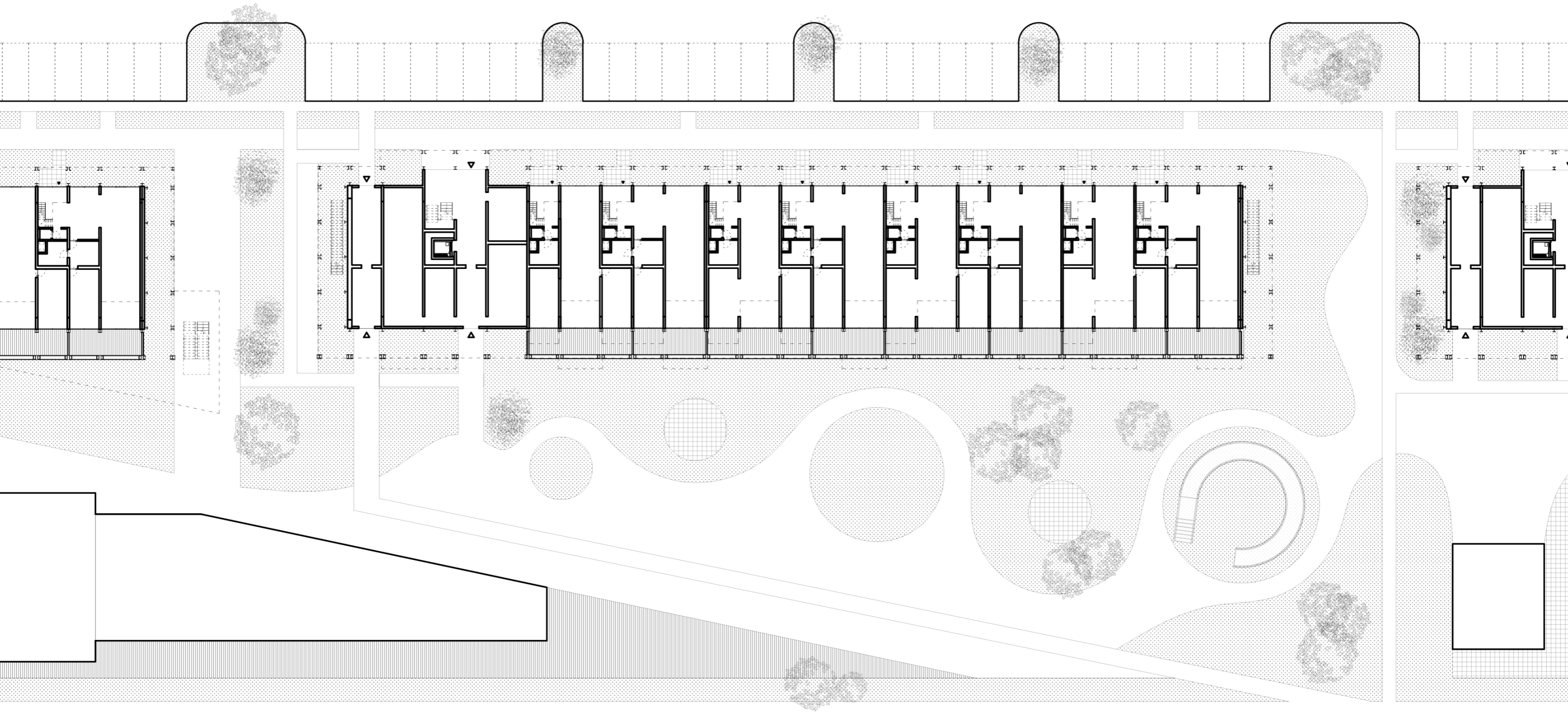
Different surfaces for different purposes





1. PLOT

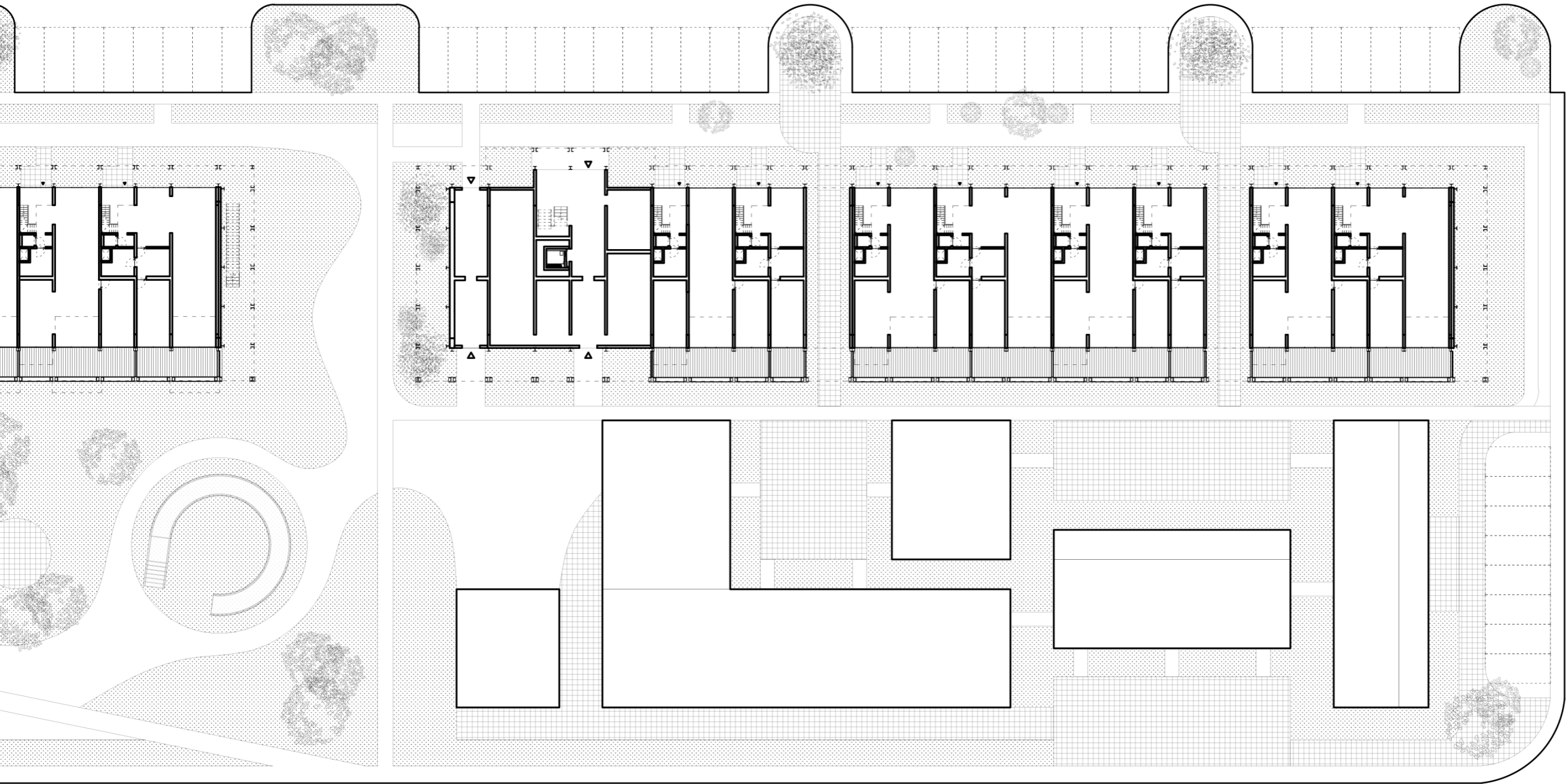
Ensemble 1



1. PLOT

Ensemble 2

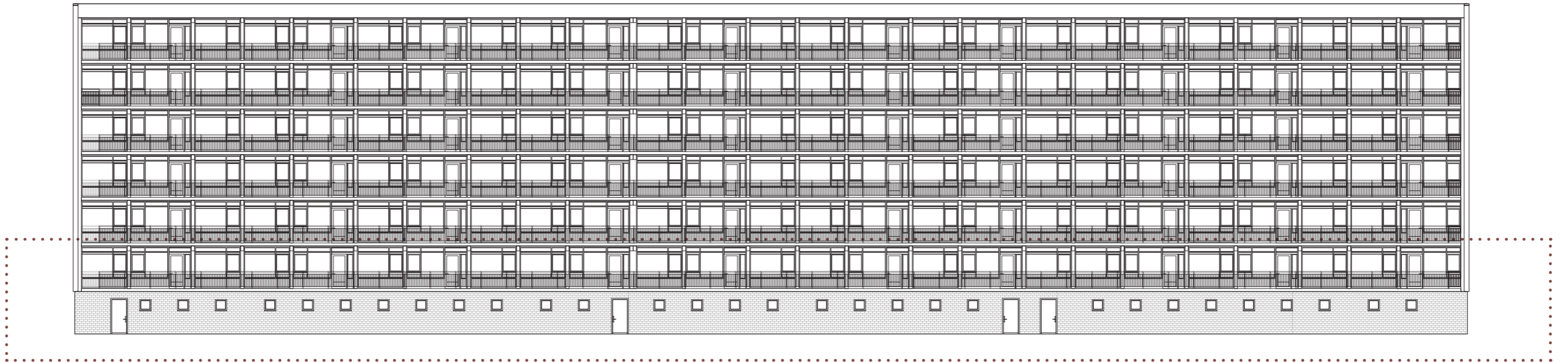




1. PLOT

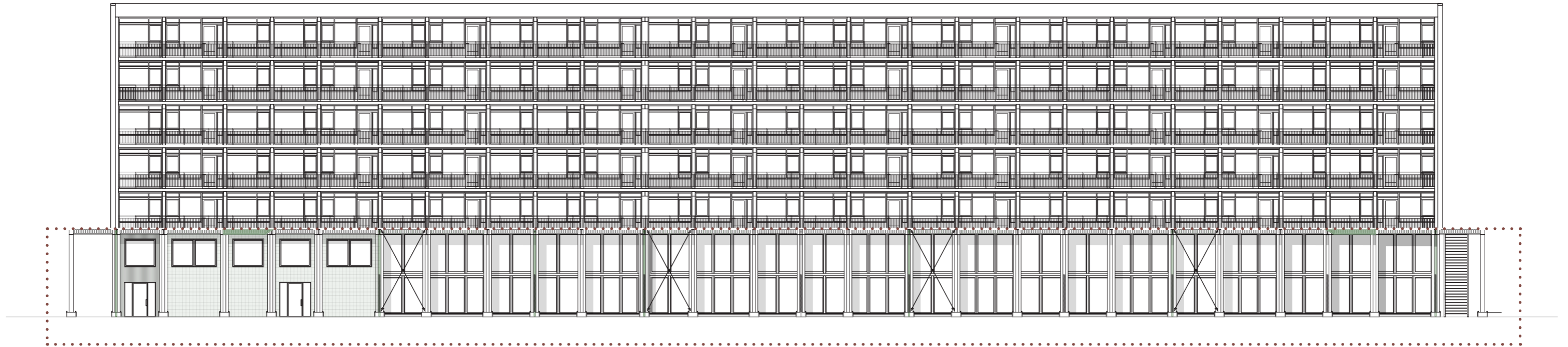
Ensemble 3





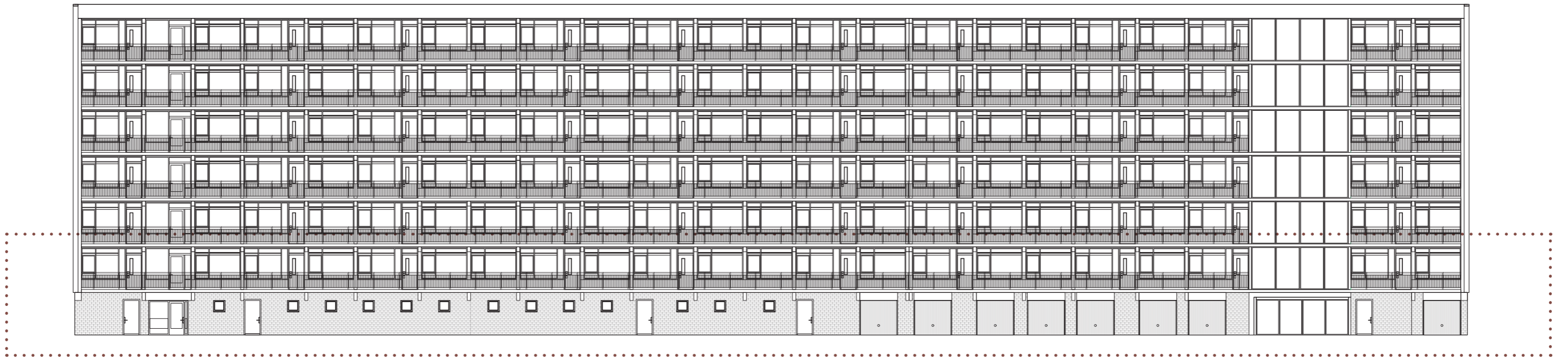
2. PLINTH

Existing Facade - South



2. PLINTH

New Plinth - South



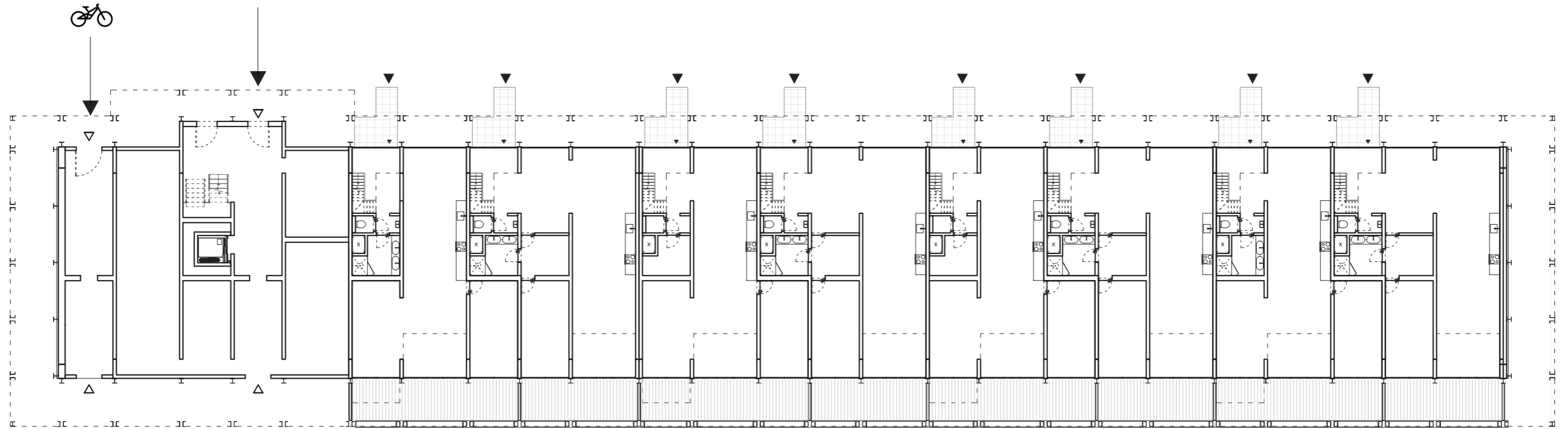
2. PLINTH

Existing Facade - North



2. PLINTH

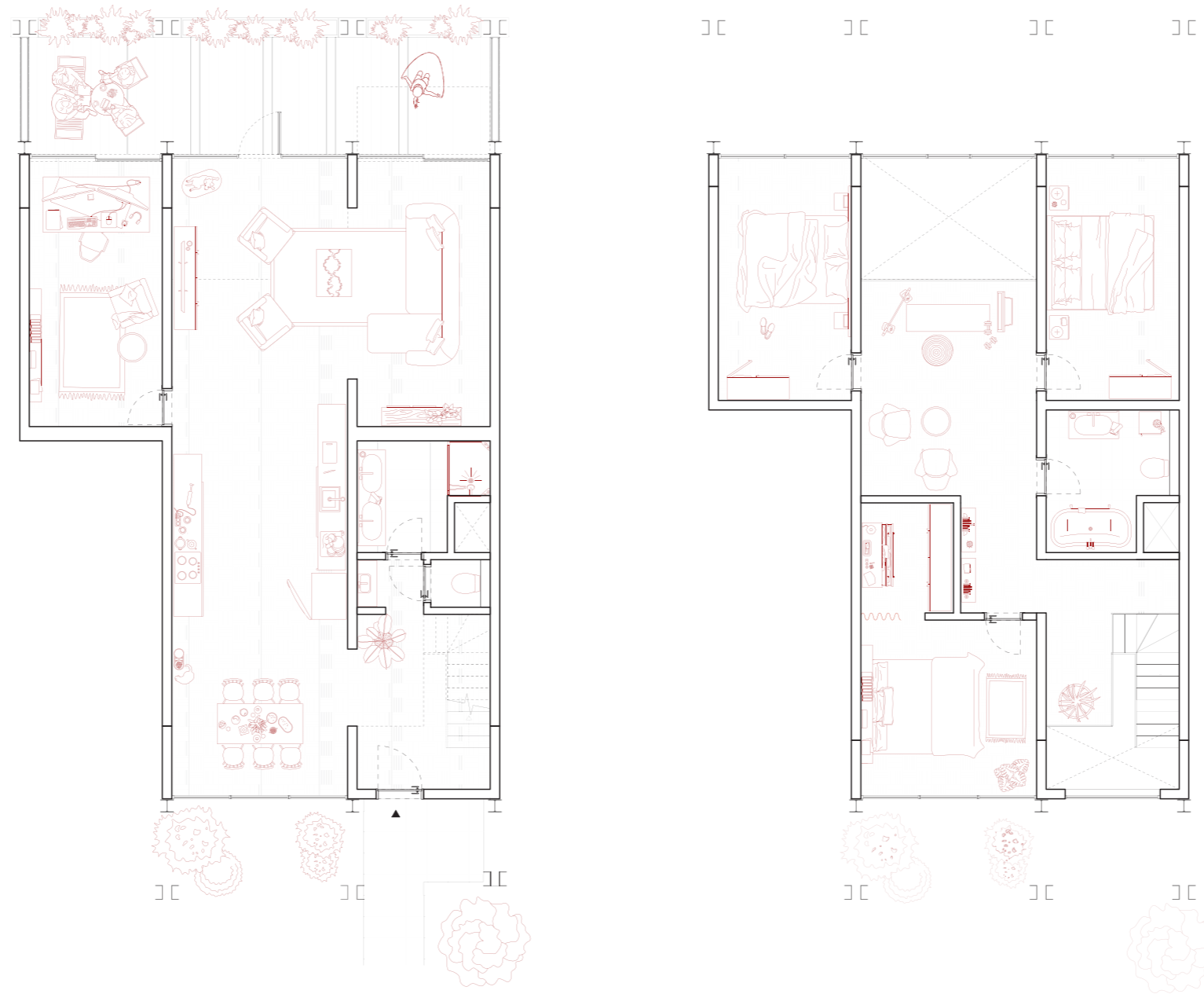
New Plinth - North



2. PLINTH

Ground floor

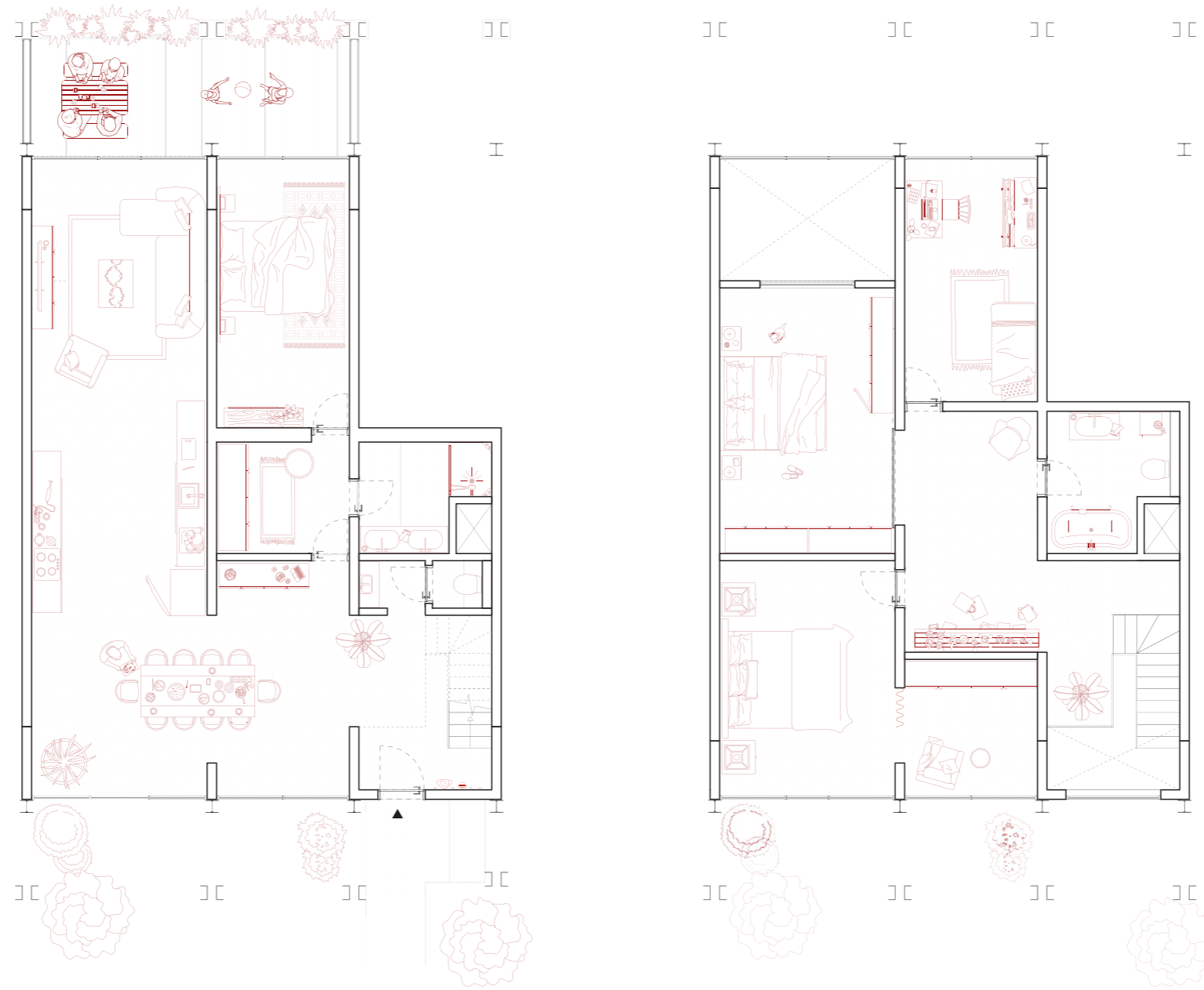




2. PLINTH

Maisonette Type A





2. PLINTH

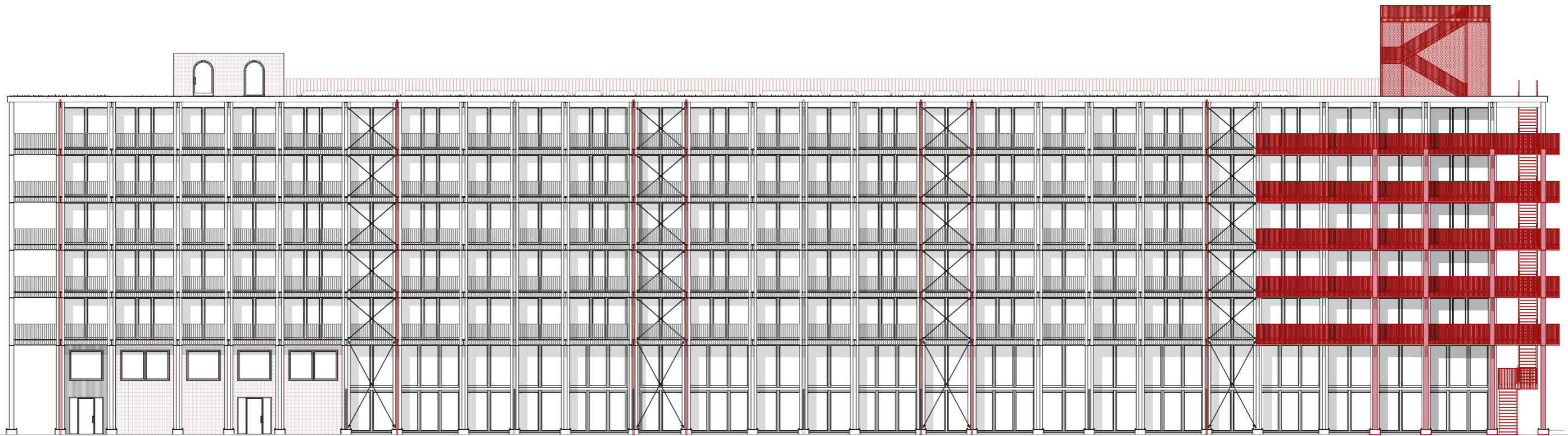
Maisonette Type A





2. PLINTH

Maisonette impression

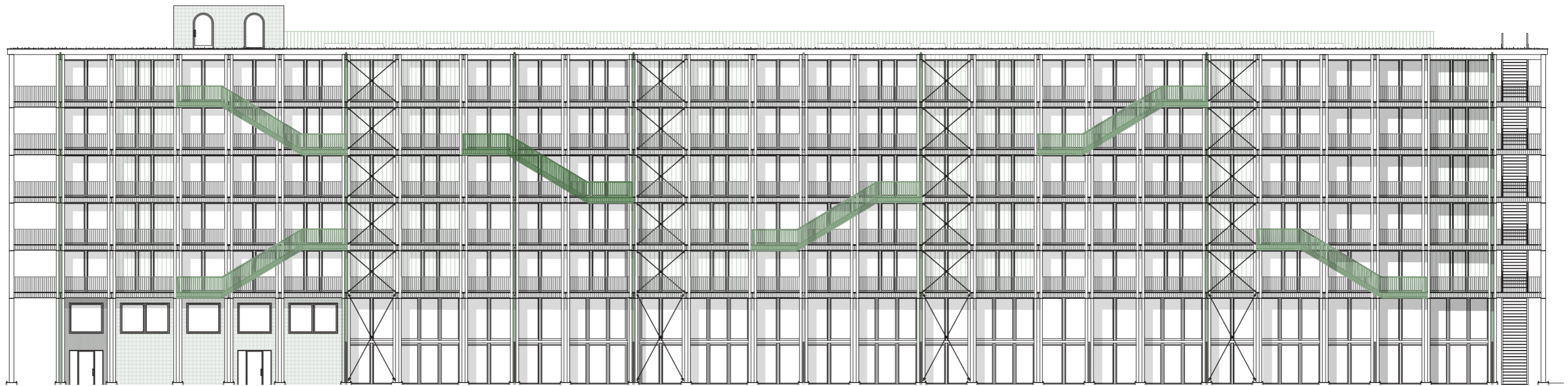


3. FACADE

Street Ensemble Facade - South



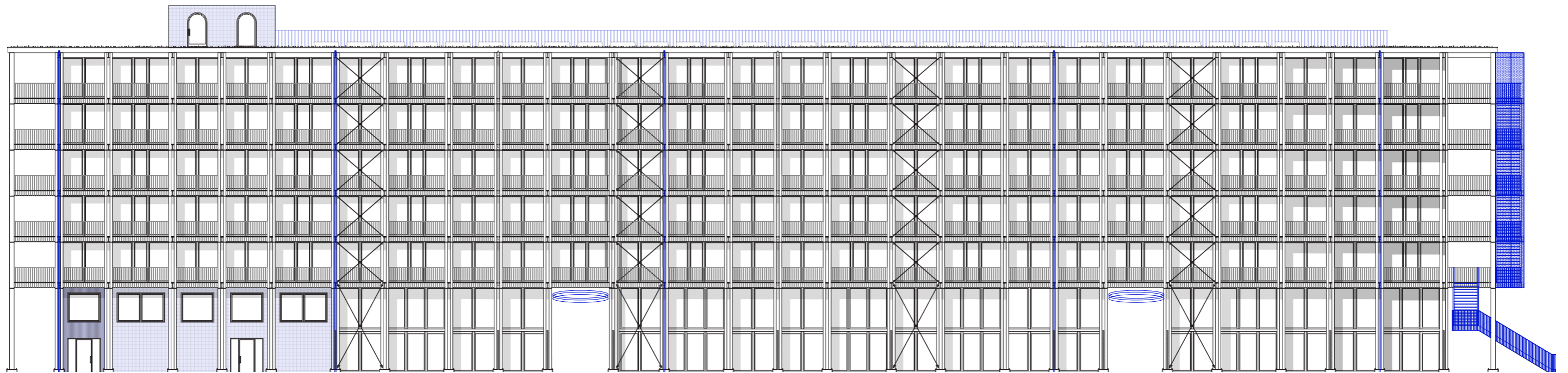




3. FACADE

Park Ensemble Facade - South

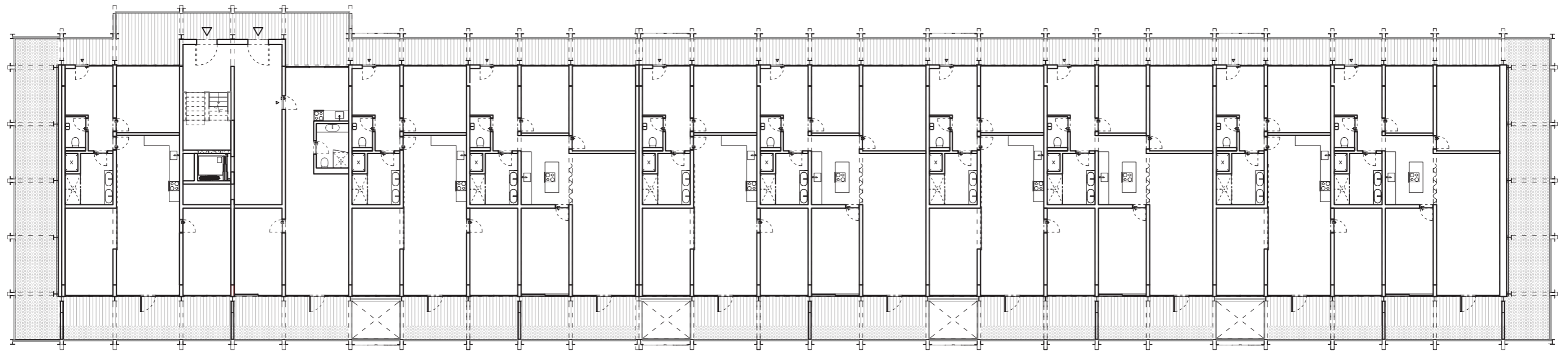




3. FACADE

Communal Courtyard Ensemble Facade - South



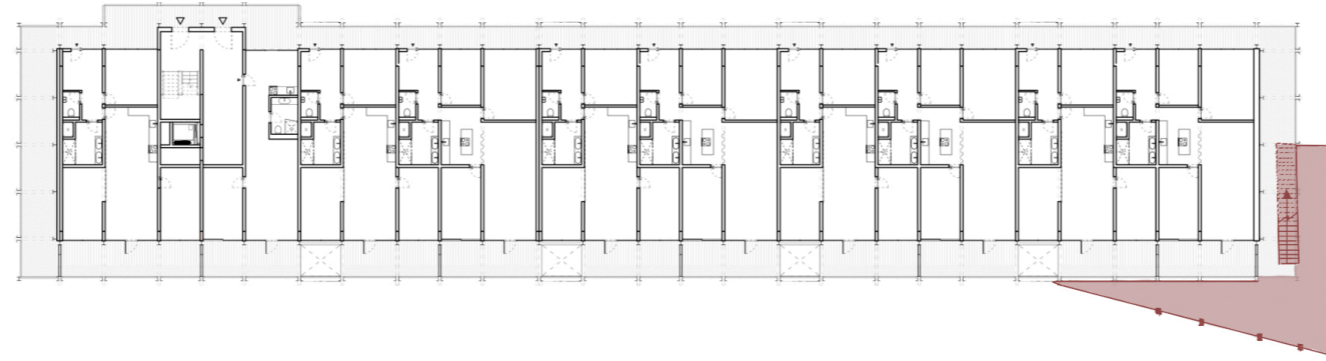


4. INTERIOR

Standard Floorplan



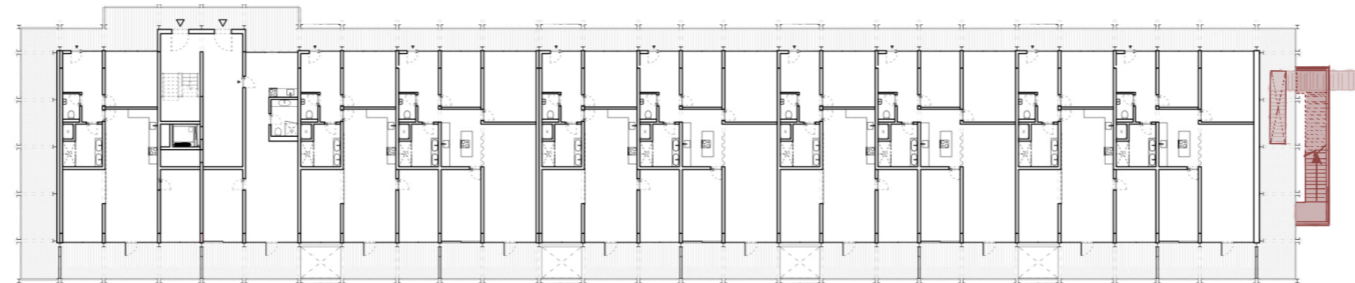
Ensemble 1



Ensemble 2



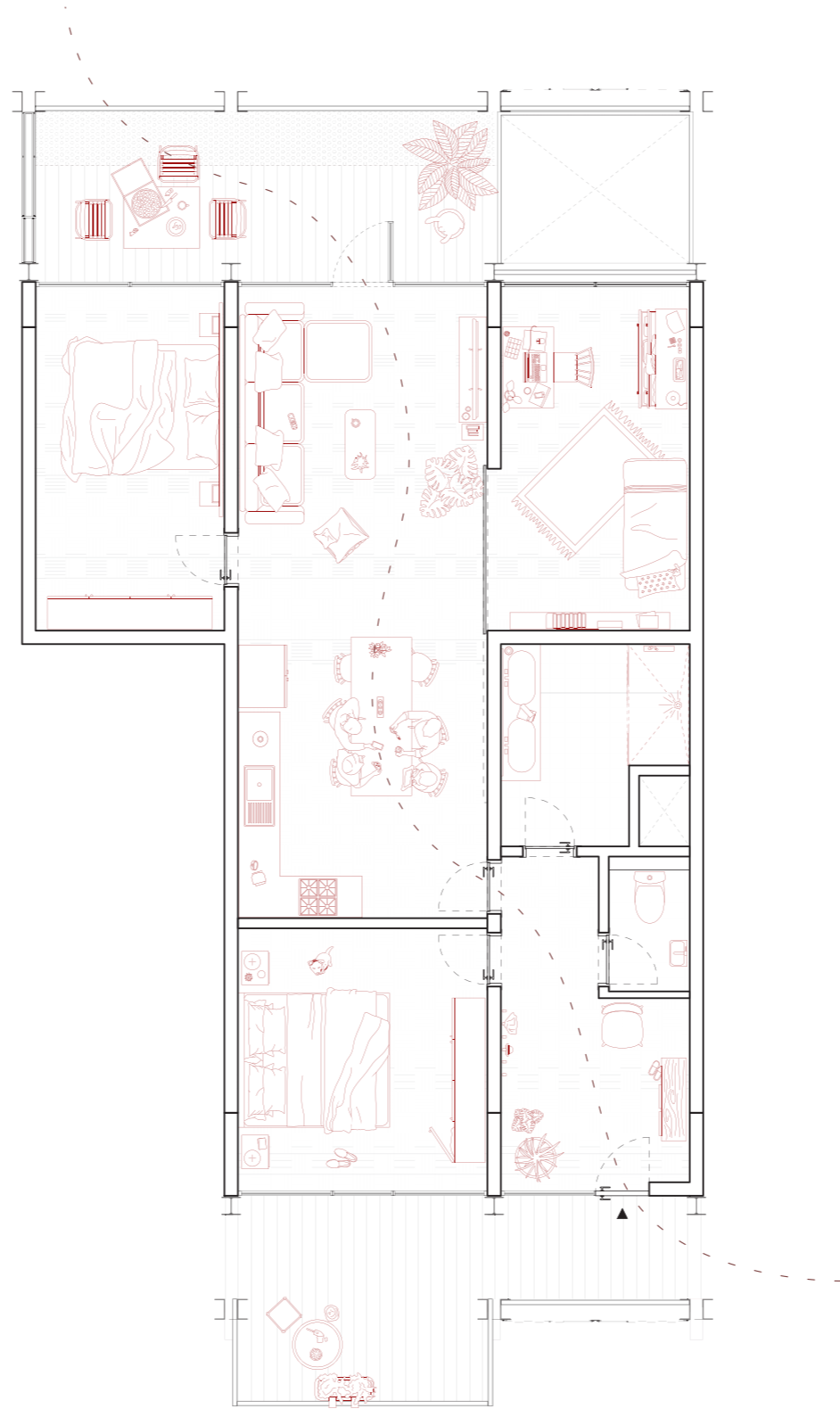
Ensemble 3



4. INTERIOR

Standard Floorplan Alterations

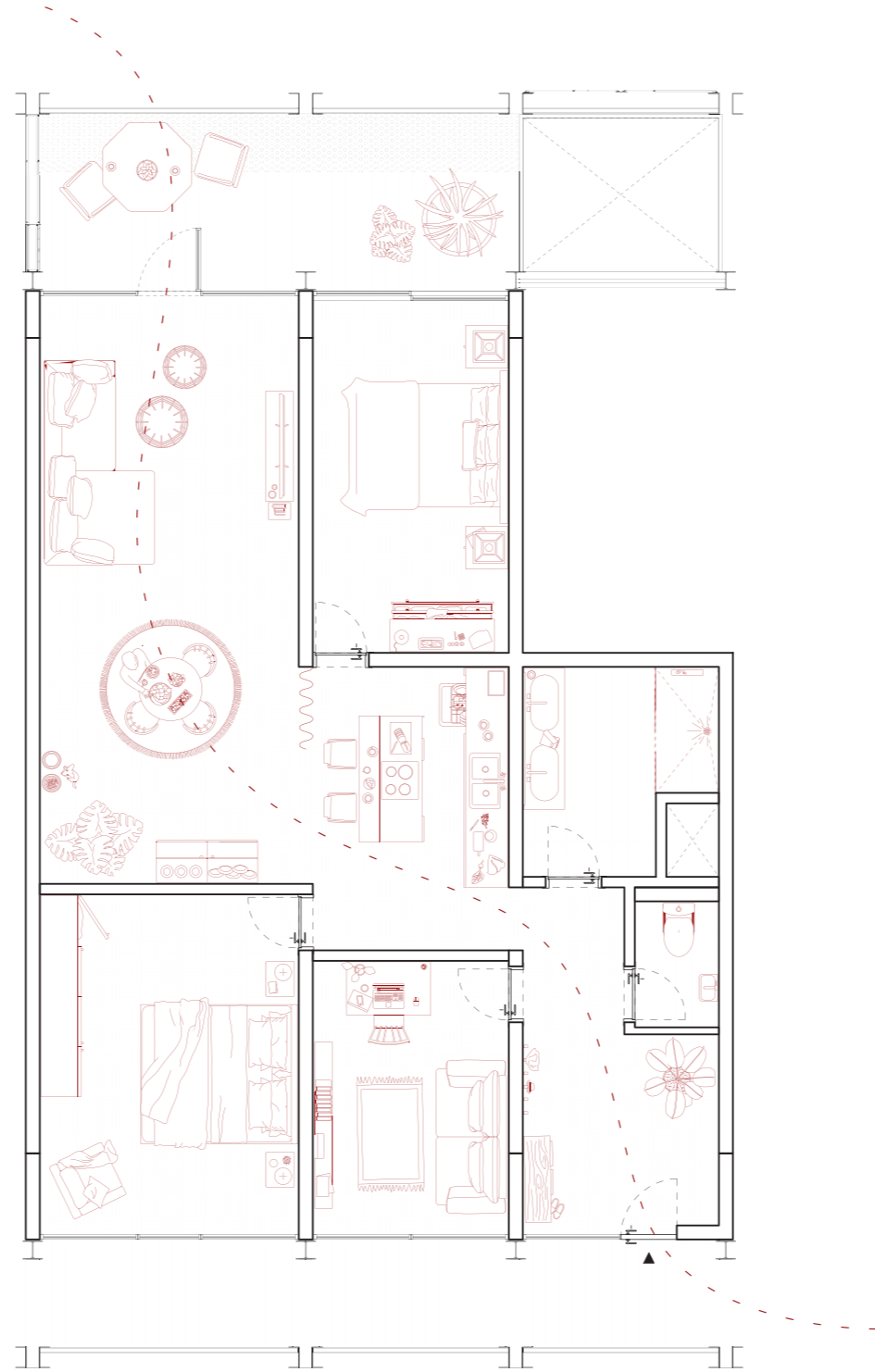




APARTMENT TYPE A

Scale 1:100

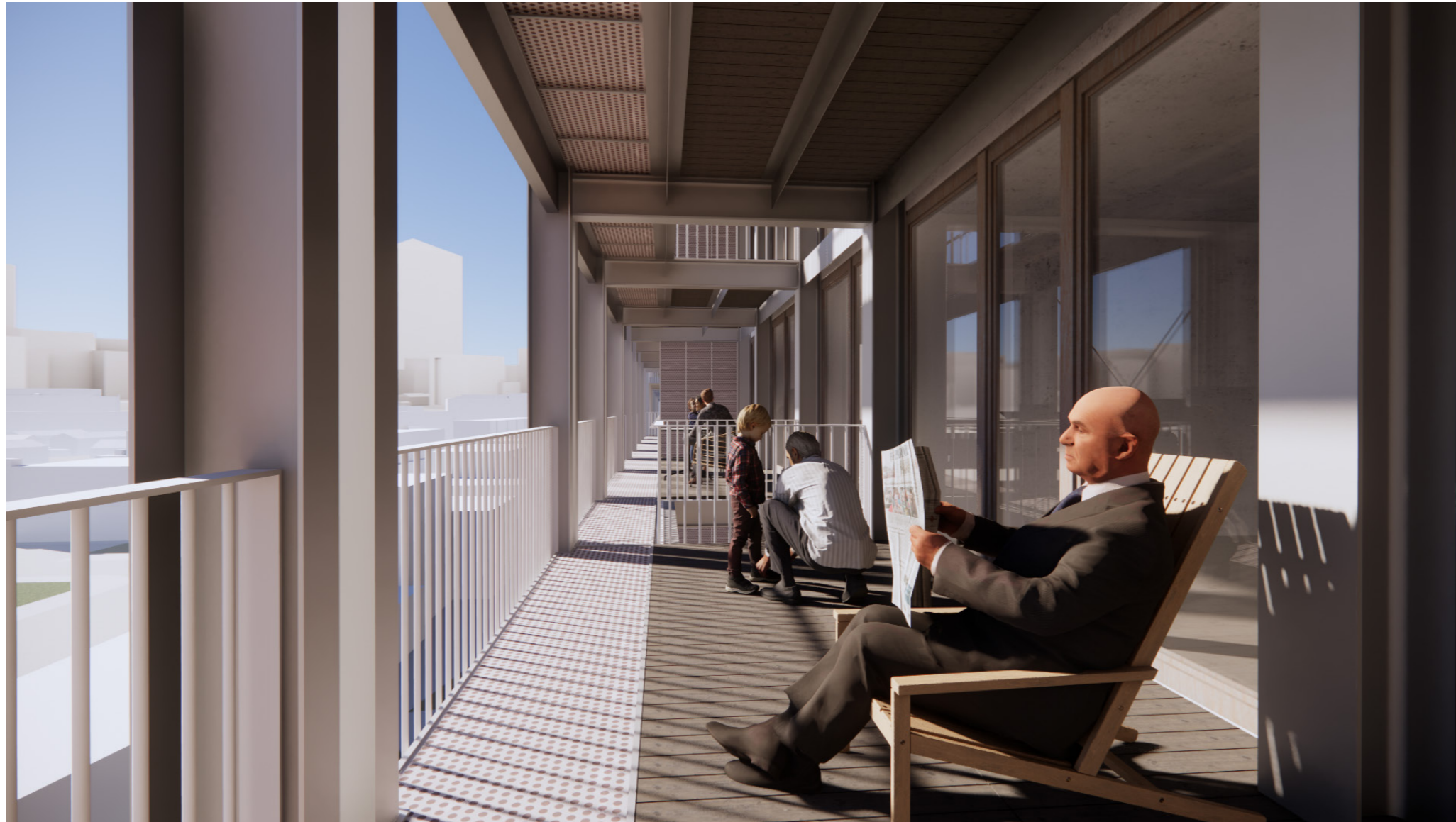




APARTMENT TYPE B

Scale 1:100





5. Railing

4. Balcony flooring

Timber decking
Perforated metal sheet

6. Separation panel

Wood panelling
Perforated metal sheet (2 layers)
On steel frame

1. Primary steel structure

Back column: HEA profile
Front column: double C section profile
I beams running from flank to HEA beam to in
between double C section profiles

1. Secondary structure

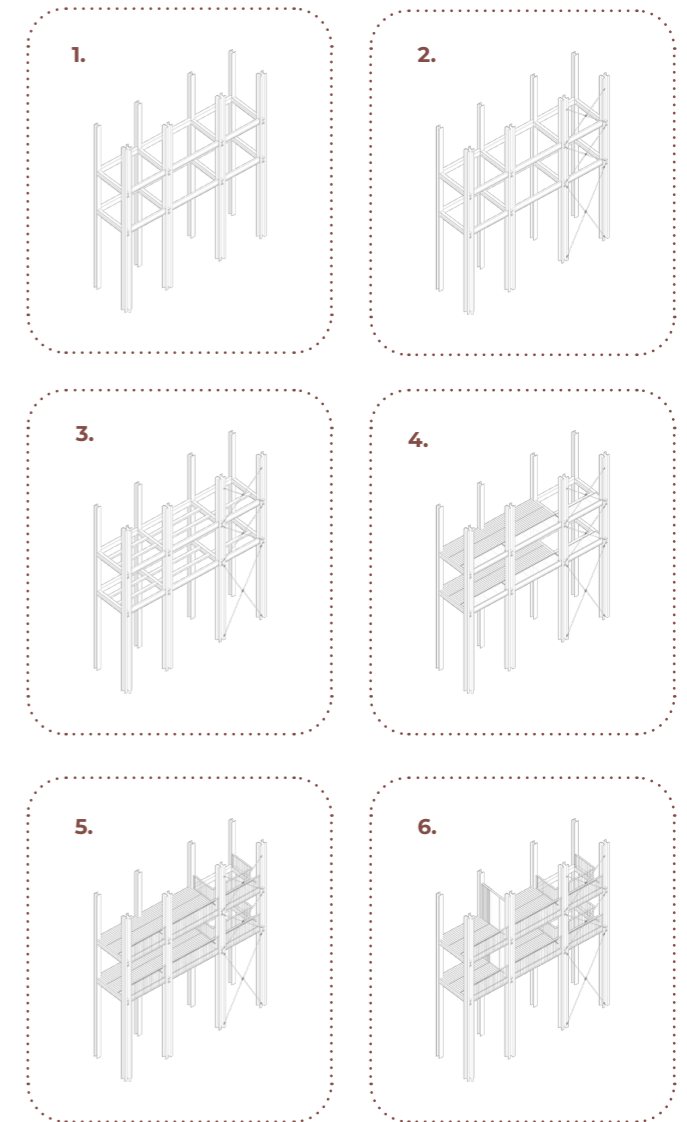
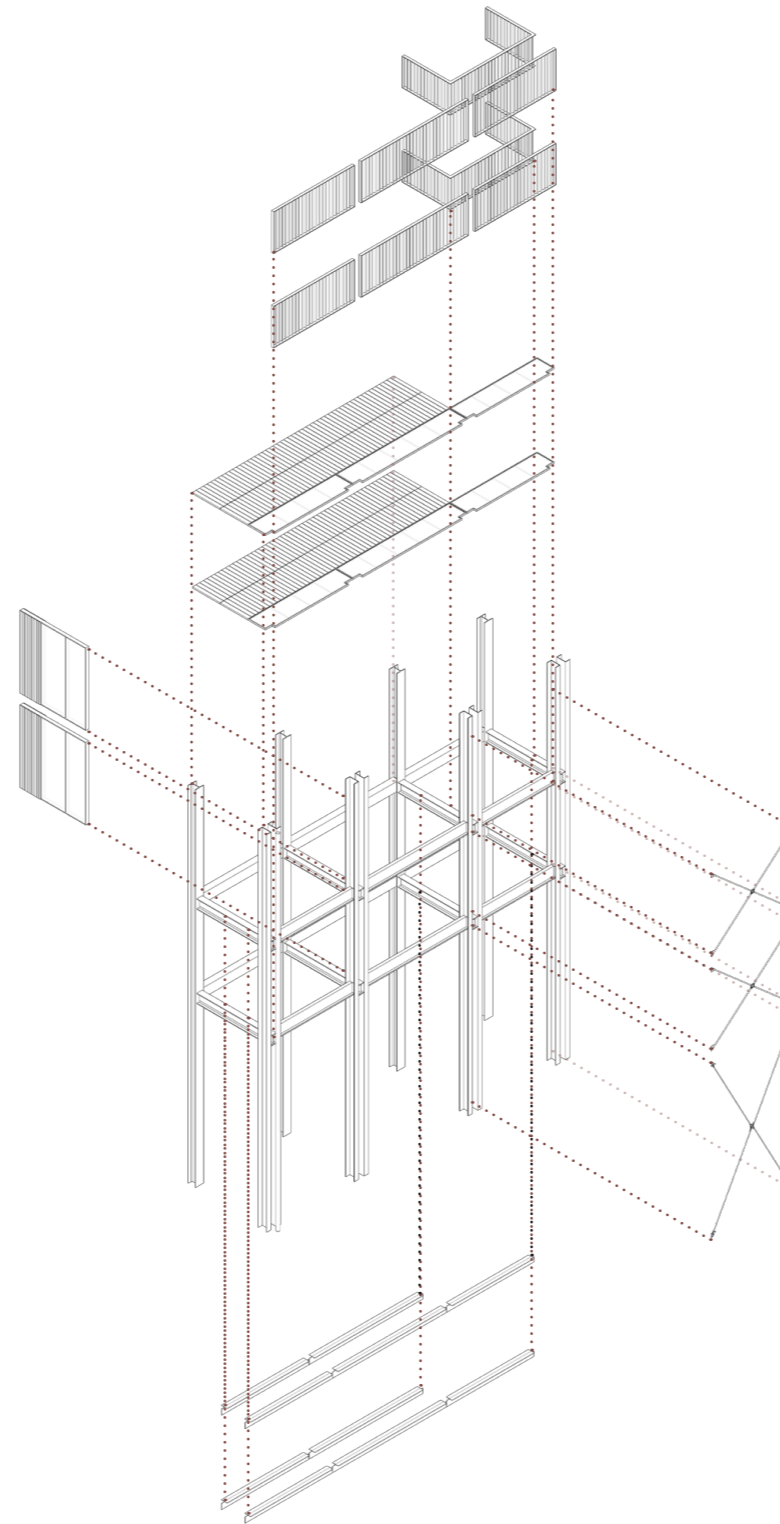
Back beam: L profile
Front beam: Z profile

2. Steel bracing

Bolted at edges on C section profile

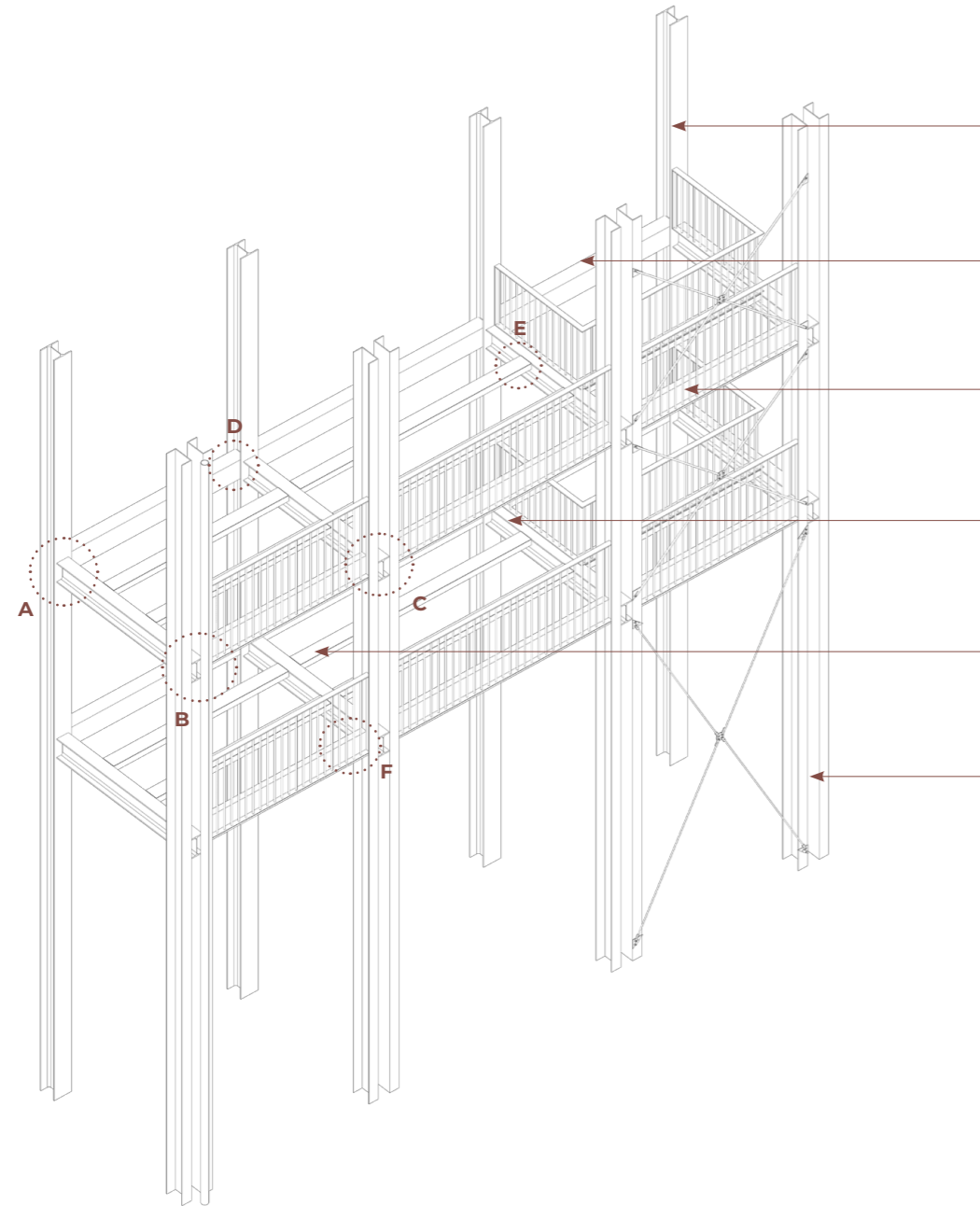
3. Tertiary structure

T beams between I profiles for support
of balcony flooring



5. DETAIL

New frame structure



HEA320
310(h)x300(w) ; 15,5(t_f) ; 9(t_w)
99,5kg/m
section: 124,4cm²



L30x20x4
1,49kg/m
section: 19,95cm²



Z300x88x26x4
15,66kg/m
section: 19,95cm²



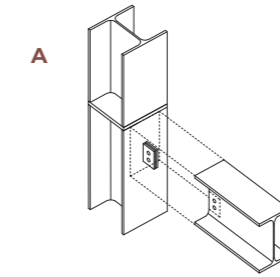
HEA260
250(h)x260(w) ; 12,5(t_f) ; 7,5(t_w)
69,5kg/m
section: 86,8cm²



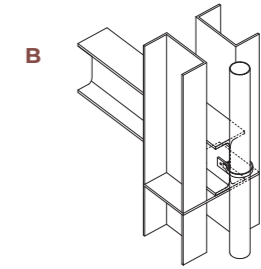
TEE200x200x3
0,96kg/m
section: 7,5cm²



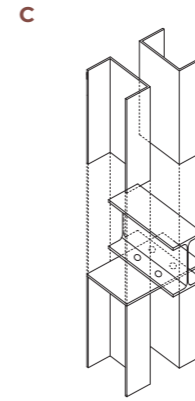
2 x UPA300
300(h)x100(w)
46,2kg/m
section: 58,8cm²



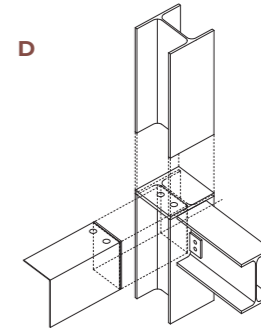
Bolted, cleat welded to column



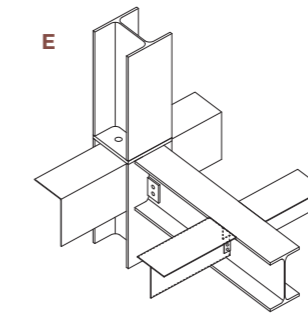
HEA beam resting on division plate. Drain pipe fixation on flange.



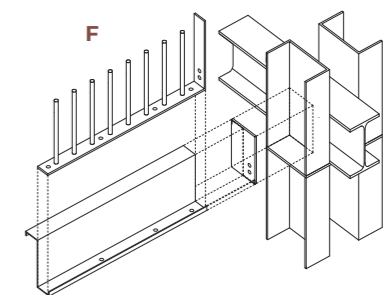
Separation plates between C profiles to limit length and facilitate transportation. HEA beam resting and bolted on plate.



Separation plates between section of HEA column to limit length and facilitate transportation. L angle bolted onto bottom of transportation plates, between flanges of column.



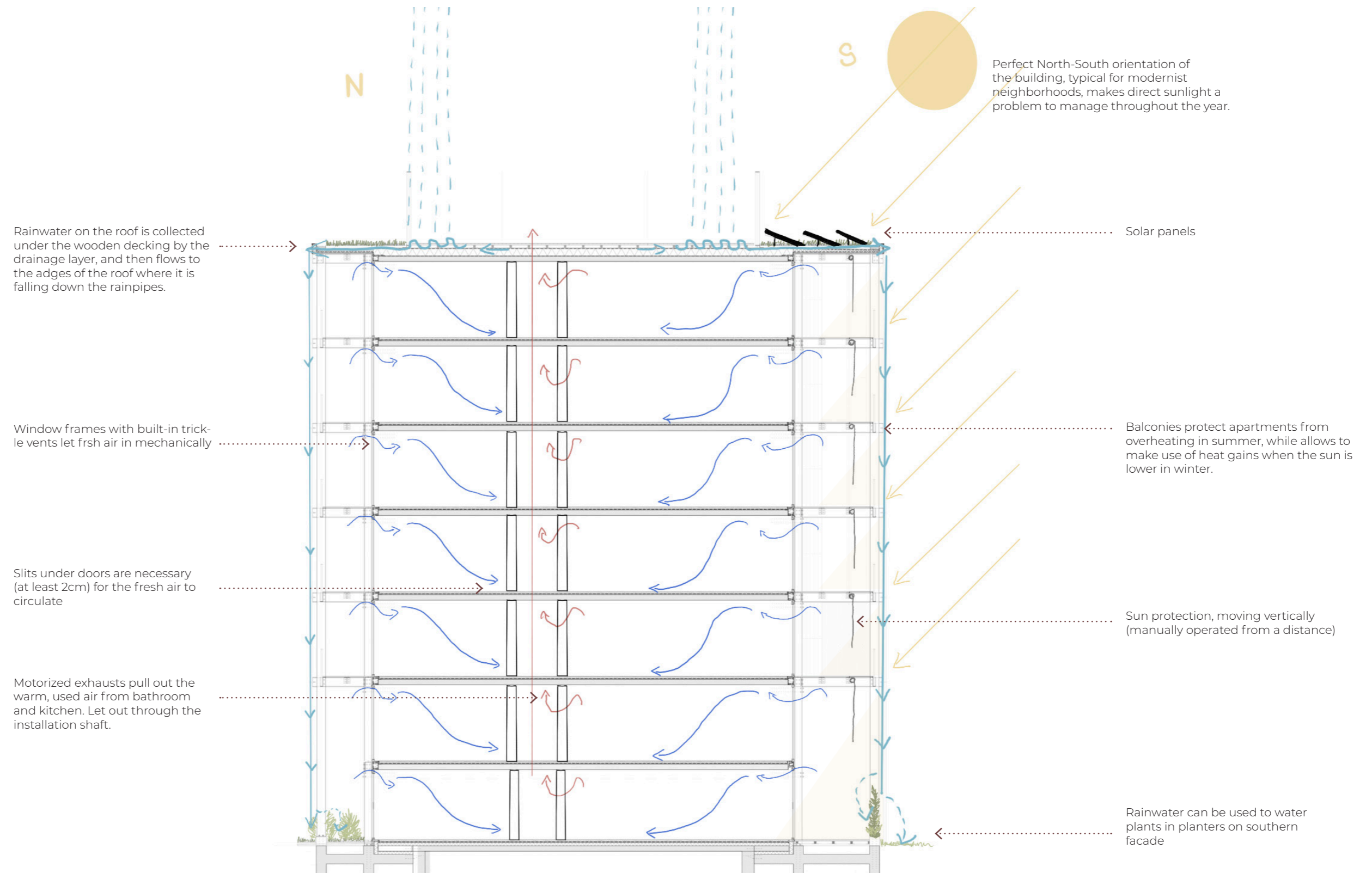
T profiles partially cut out to level with flange of HEA beam. Cleat welded to beam.



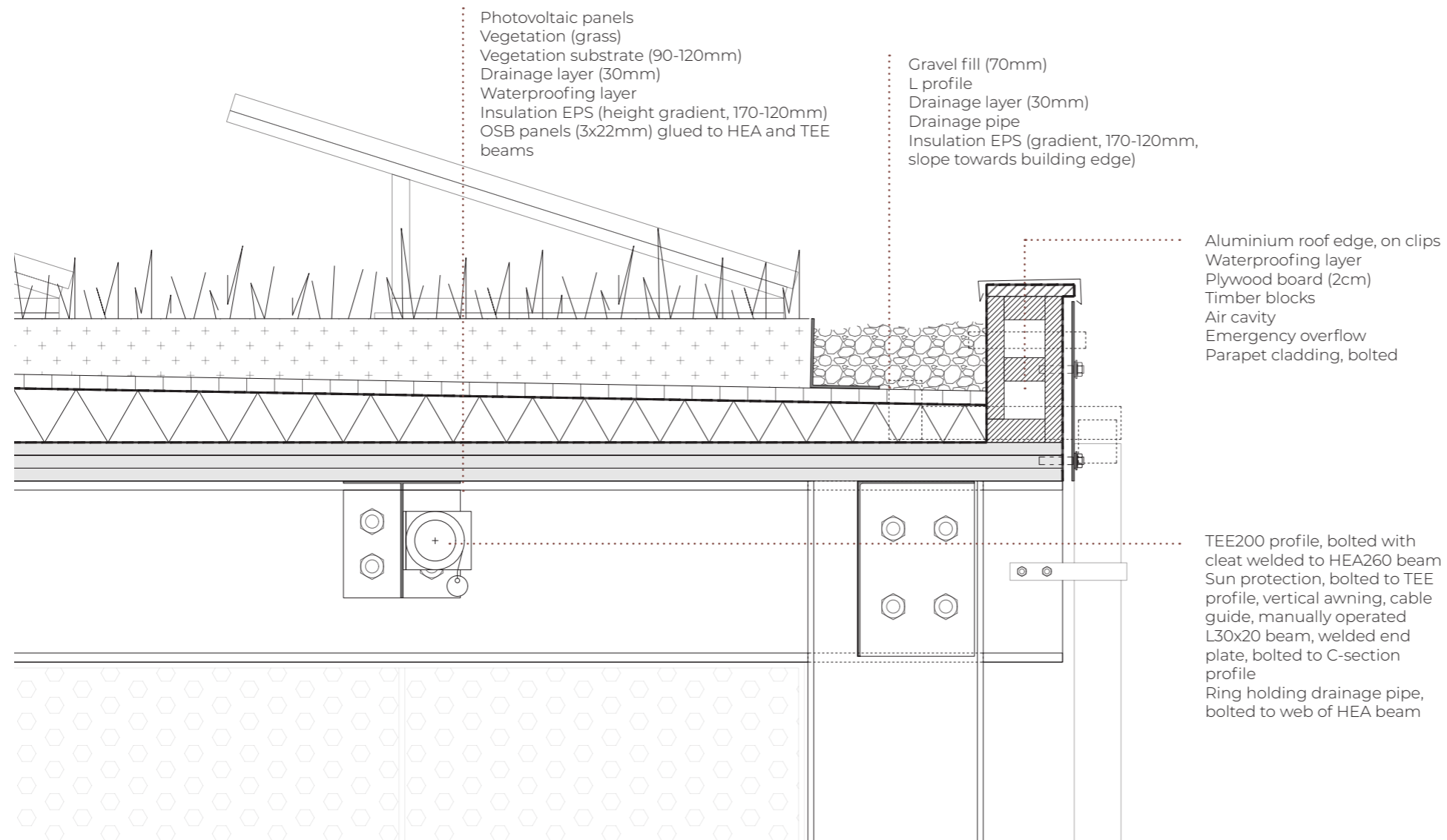
Z profile bolted to C profile, end plate welded to edge of Z section. Railing resting on it.

5. DETAIL

New frame structure

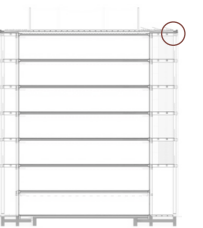


CLIMATE CONCEPT



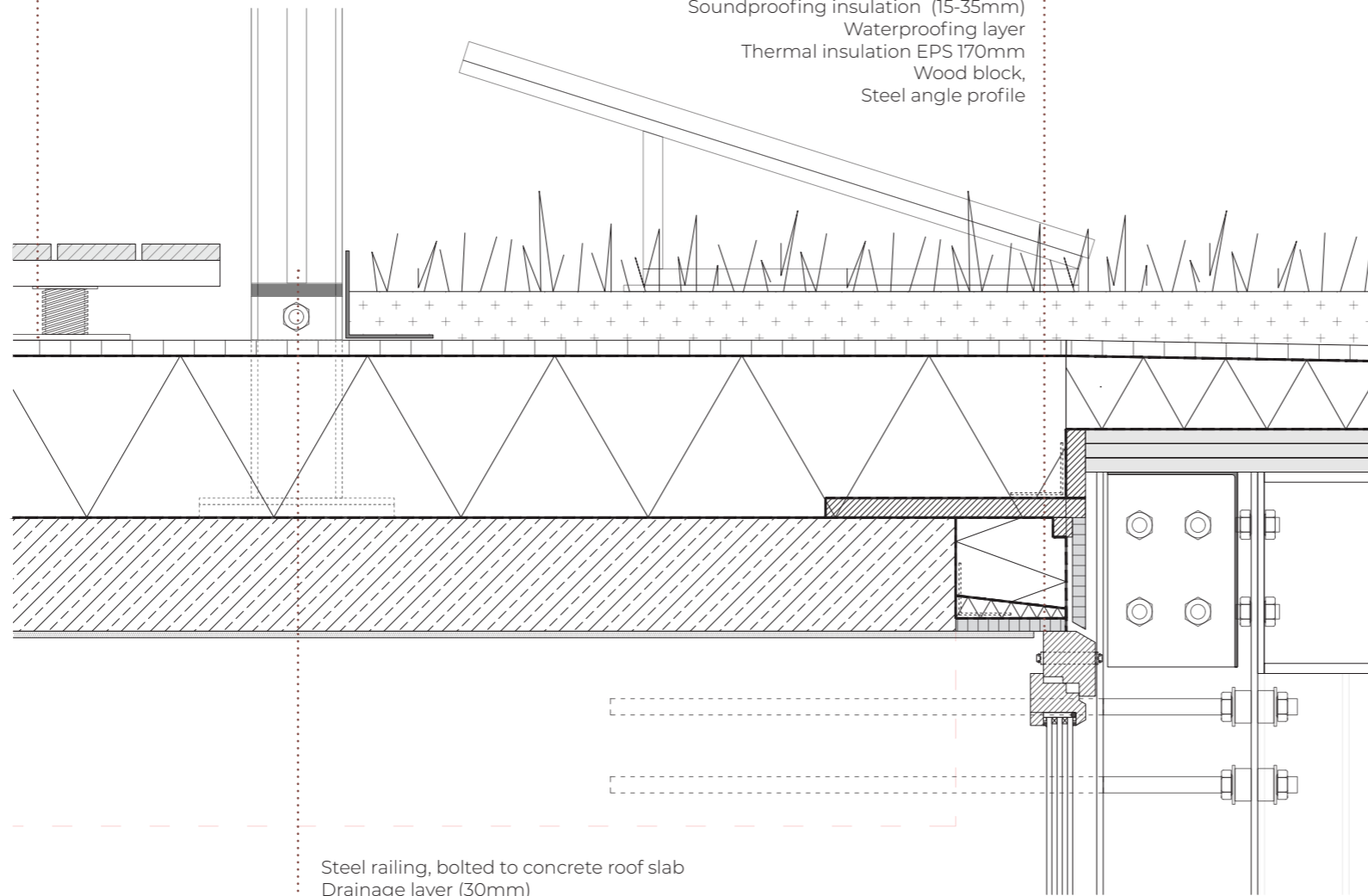
DETAILS 1:10

Roof construction - parapet



Timber decking (25mm)
 Timber joists (40mm)
 Adjustable terrace pedestals

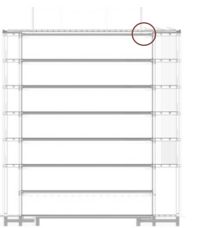
Timber window frame with built-in trickle vent, triple glazing
 Multiplex panel (20mm)
 Waterproofing layer
 Soundproofing insulation (15-35mm)
 Waterproofing layer
 Thermal insulation EPS 170mm
 Wood block,
 Steel angle profile

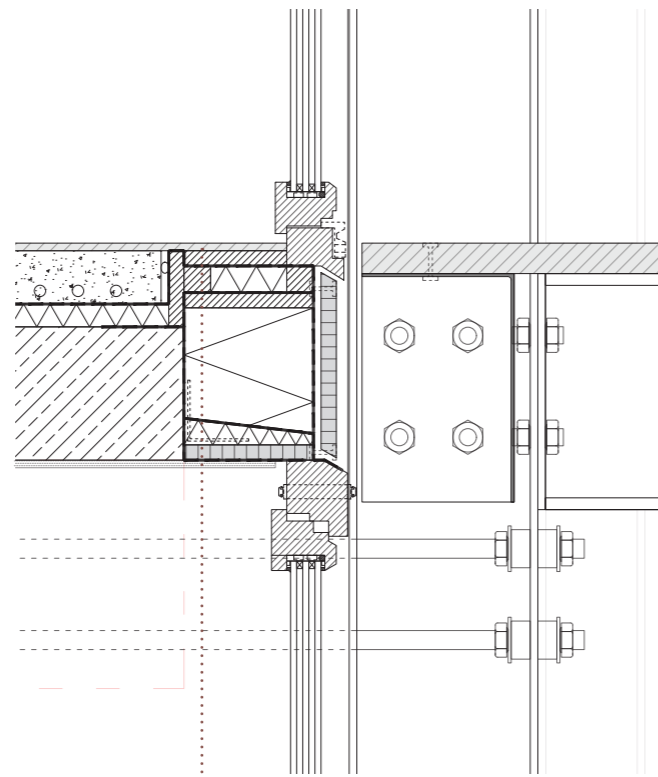


Steel railing, bolted to concrete roof slab
 Drainage layer (30mm)
 Waterproofing membrane
 Insulation EPS (200mm)
 Vapor barrier
 Existing concrete slab (175mm)
 Interior plaster finish, painted

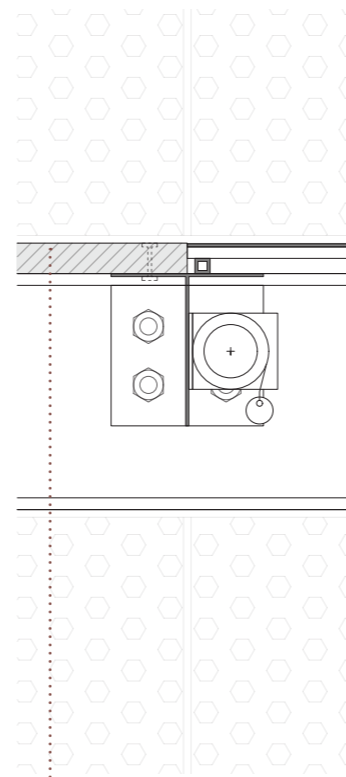
DETAILS 1:10

Roof construction - roof terrace



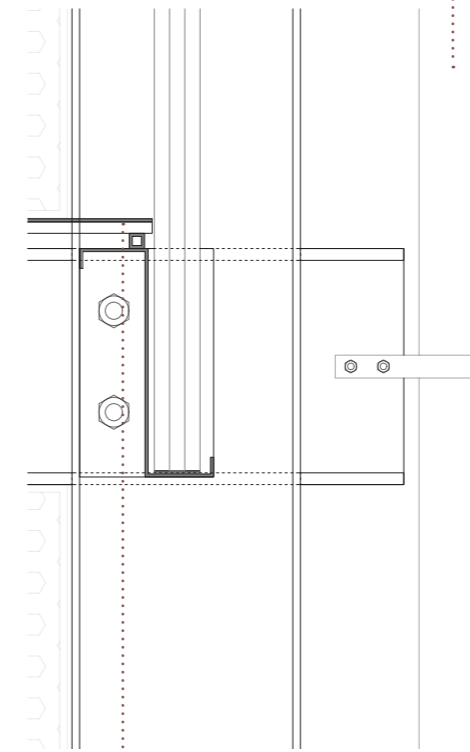


- Floor finishing (parquet, 10mm)
- Airspace 10mm
- Waterproofing layer
- Thermal insulation 170mm
- Timber substructure
- Concrete slab edge (existing) 175mm



- Wood decking (40mm)
- resting on and nailed to HEA260 beam, TEE200 profiles.

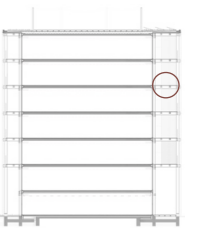
Rainpipe, held by ring attached to web of HEA260 beam

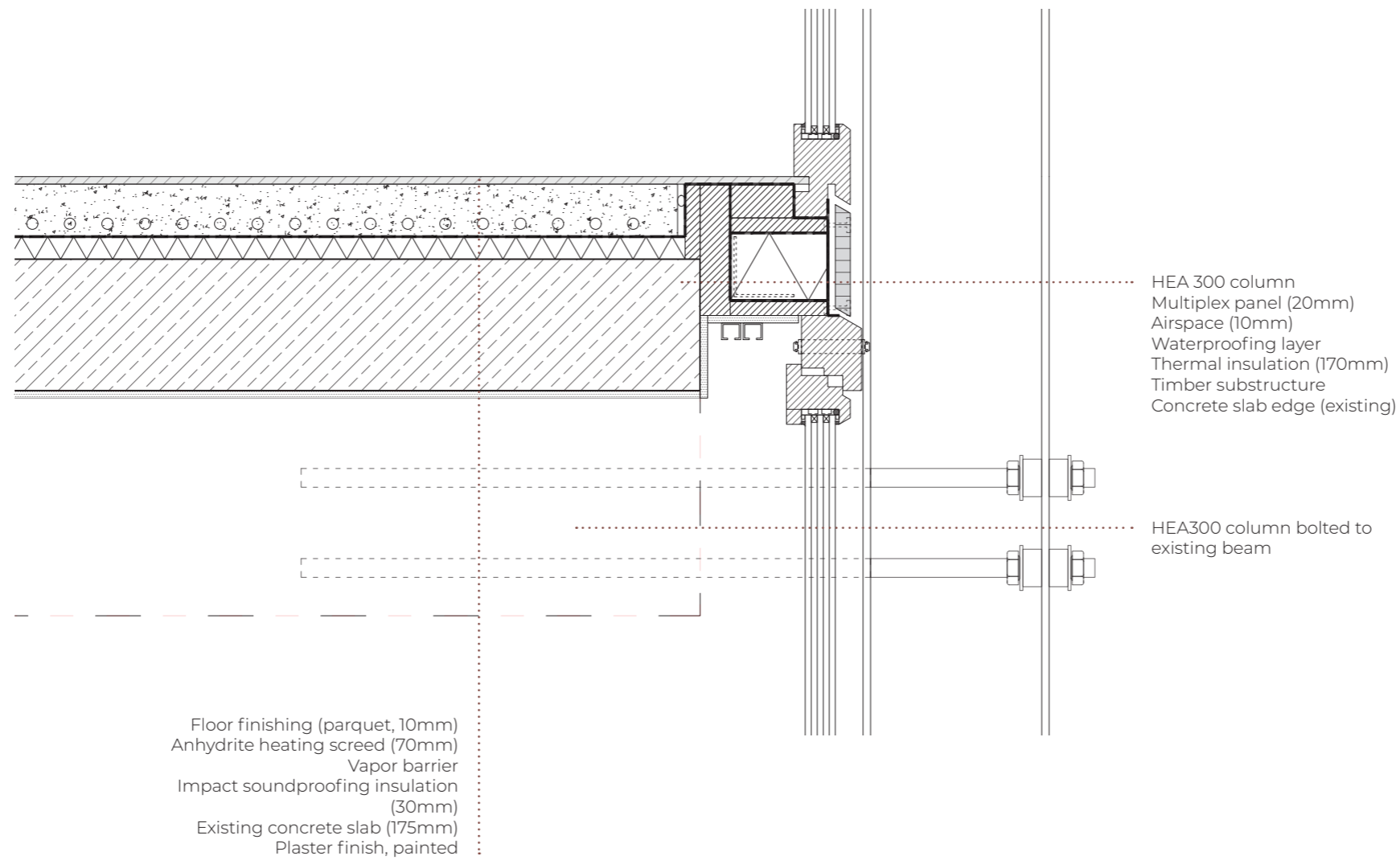


- Perforated steel sheet on steel substructure (20mm), resting and nailed to HEA260 beam, TEE200 profile and Z profile
- Z profile, welded end plate, bolted to HEA260 beam
- Steel railing, resting on and bolted to Z profile

DETAILS 1:10

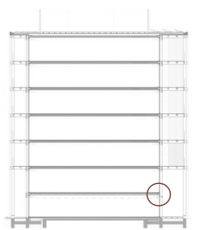
Balcony construction

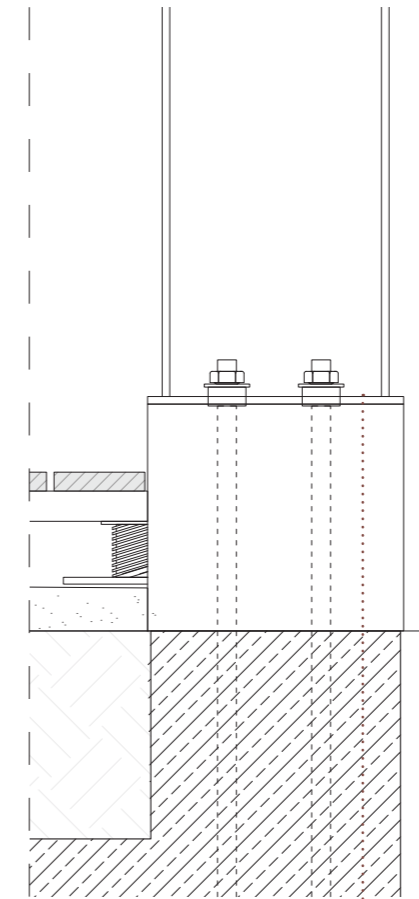
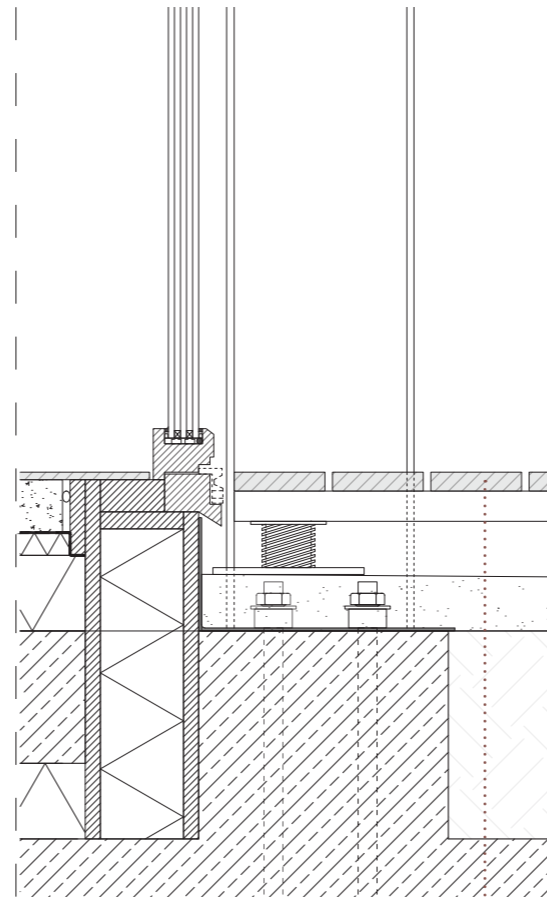
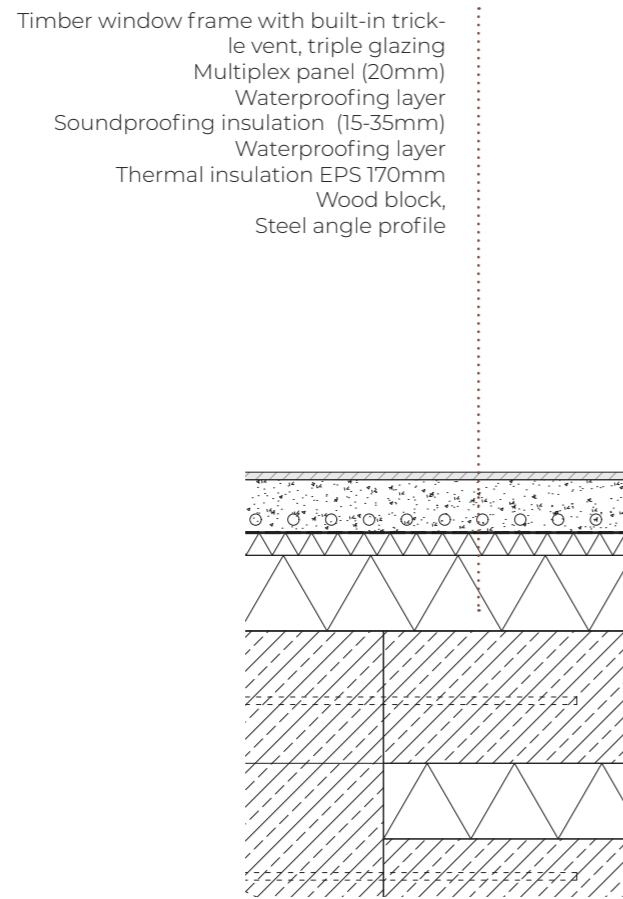




DETAILS 1:10

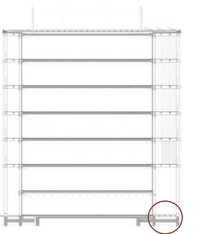
Ground floor to first floor curtain wall

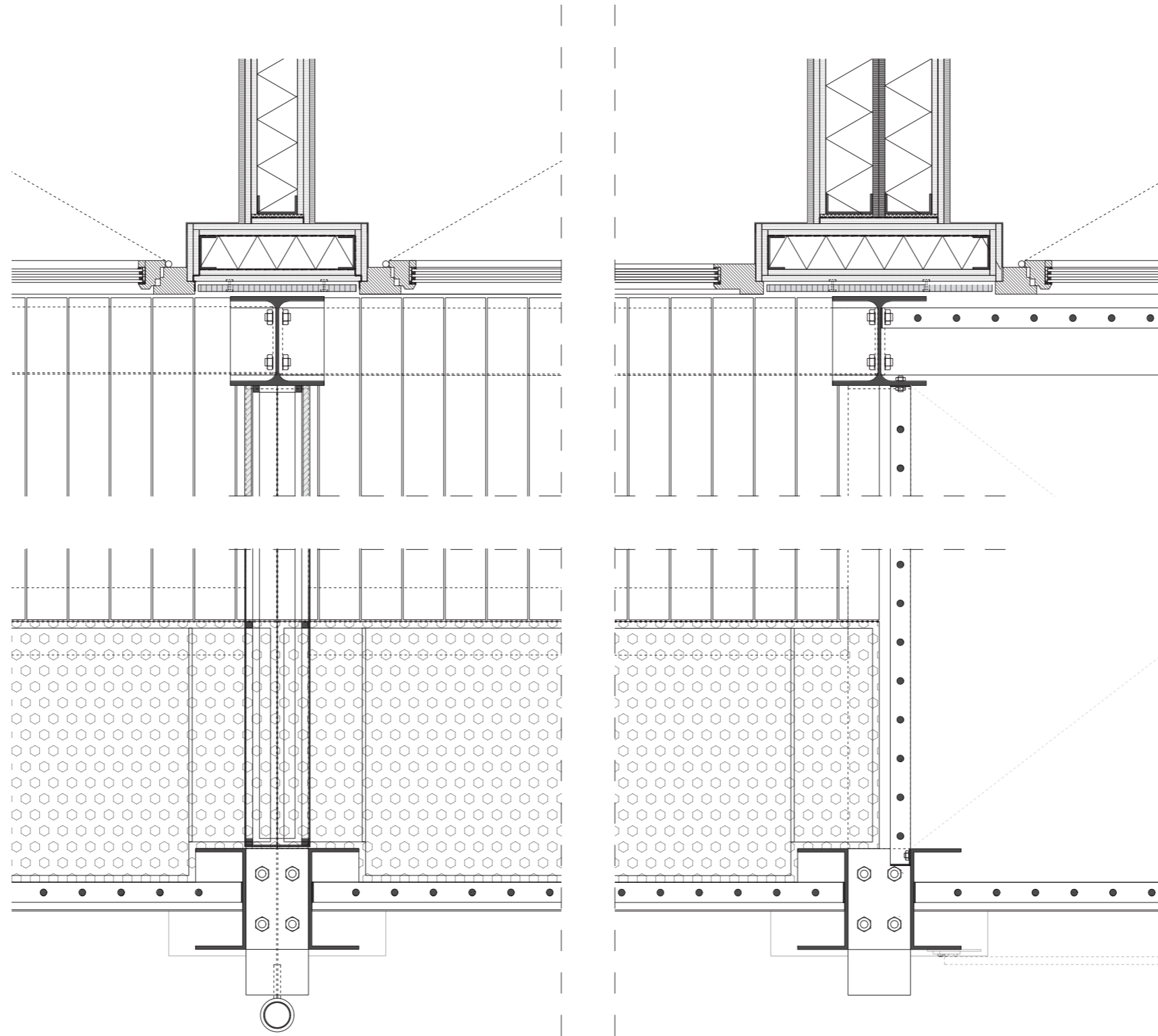




DETAILS 1:10

Roof construction - roof terrace





DETAILS 1:15

Top view - Southern balcony



IMPRESSIONS

Northern elevation



IMPRESSIONS

Northern facade fragment



IMPRESSIONS

Southern balconies



IMPRESSIONS

Southern facade fragment



FRAMING IDENTITY

P5 presentation by Emilia Bonniot

THANK YOU

Main tutor: Anne Snijders

Research tutor: Nico Tillie

Building Technology: Pierre Jennen

Andrej Radman

**Delft University of Technology, Faculty of the Built Environment
Architectural Engineering Graduation Studio, May 2024**