

Incentivising Compromise.

Participatory practice for
incentivised collaborative housing in
postwar neighbourhoods.

Taija Love

5239869.



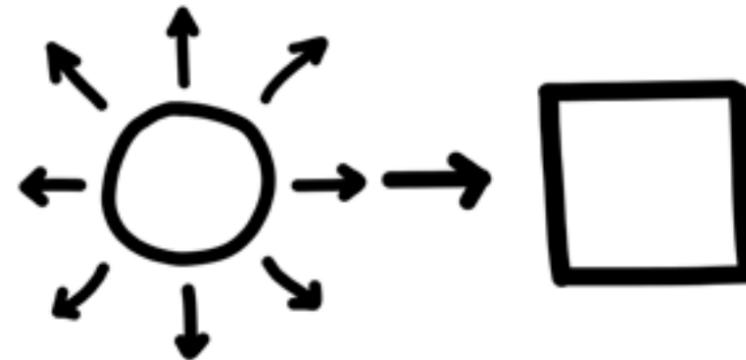
...current shortage of approximately **300,000 homes**

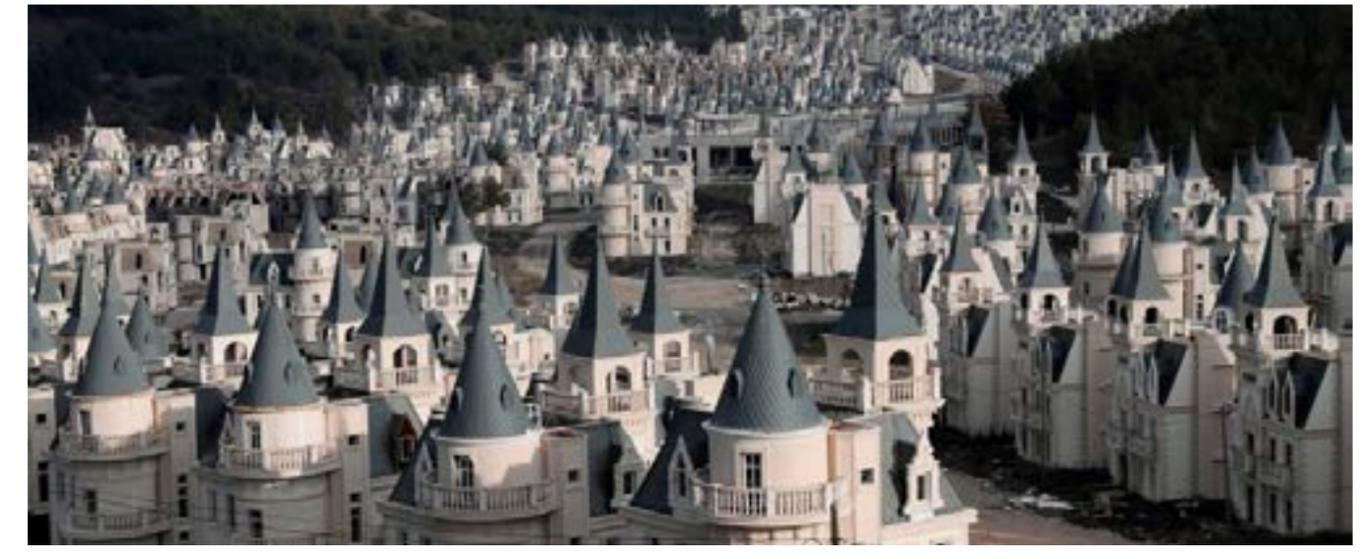
By 2030, **1 million** new homes must be made to fit
the needs of the growing population

-Association of Housing Associations 2021, p. 6

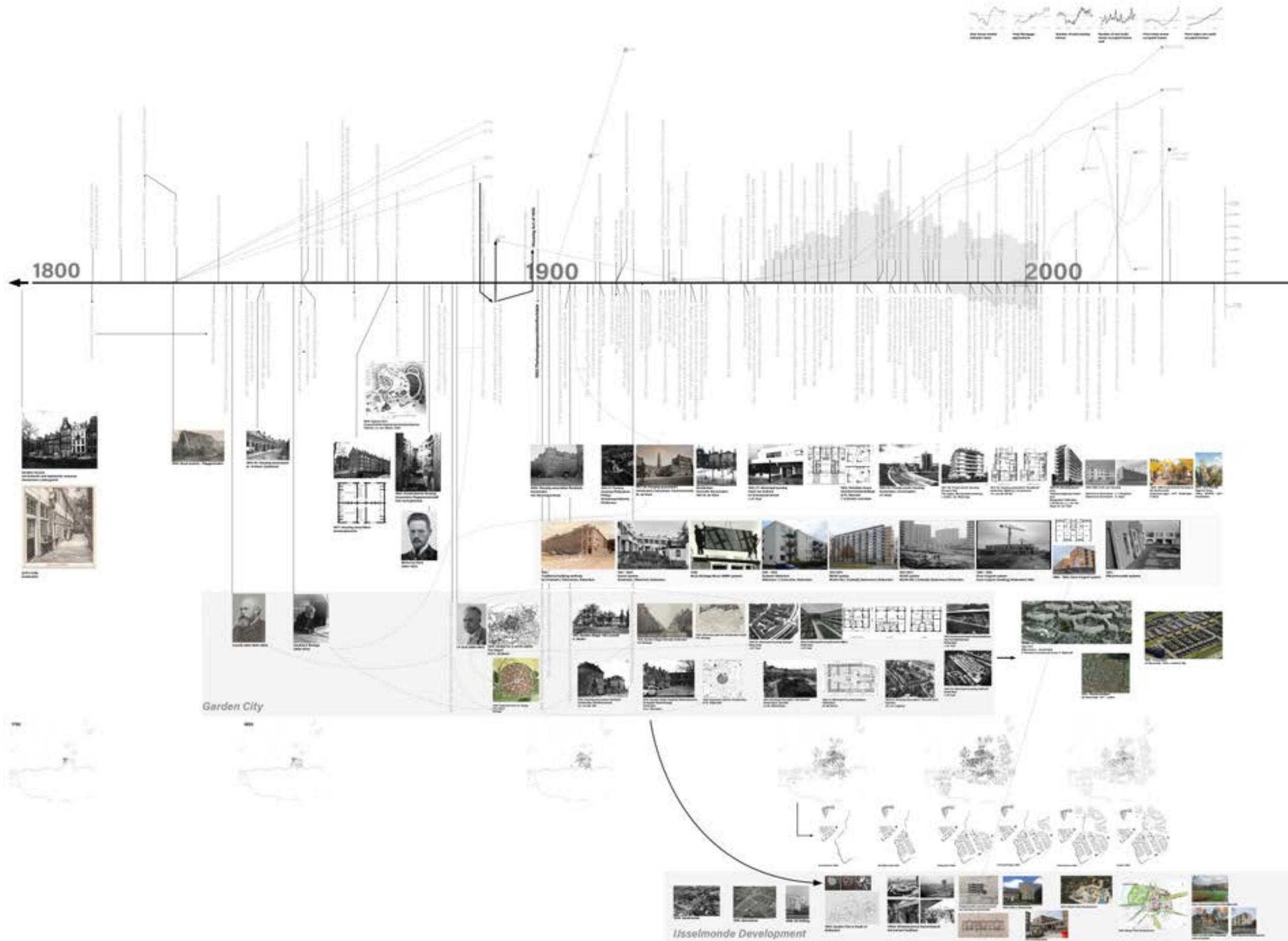


Immigration
Aging Population
More Single Households
(Elderly and Young professionals)
Lack of New Builds
Land Availability





Humanity isn't a guinea pig" says commenter



*“Could the conflict exists between man
and the method chosen ...”*

**Providers//
Supporters**

**mechanisation is the most
efficient way in which to
provide quality and efficient
supply of houses.**

**large scale
developments**

Providers// Supporters

**government agencies
and large scale
contractor**

mechanisation is the most efficient way in which to provide quality and efficient supply of houses.

large scale developments

assess the existing housing stock

Providers// Supporters

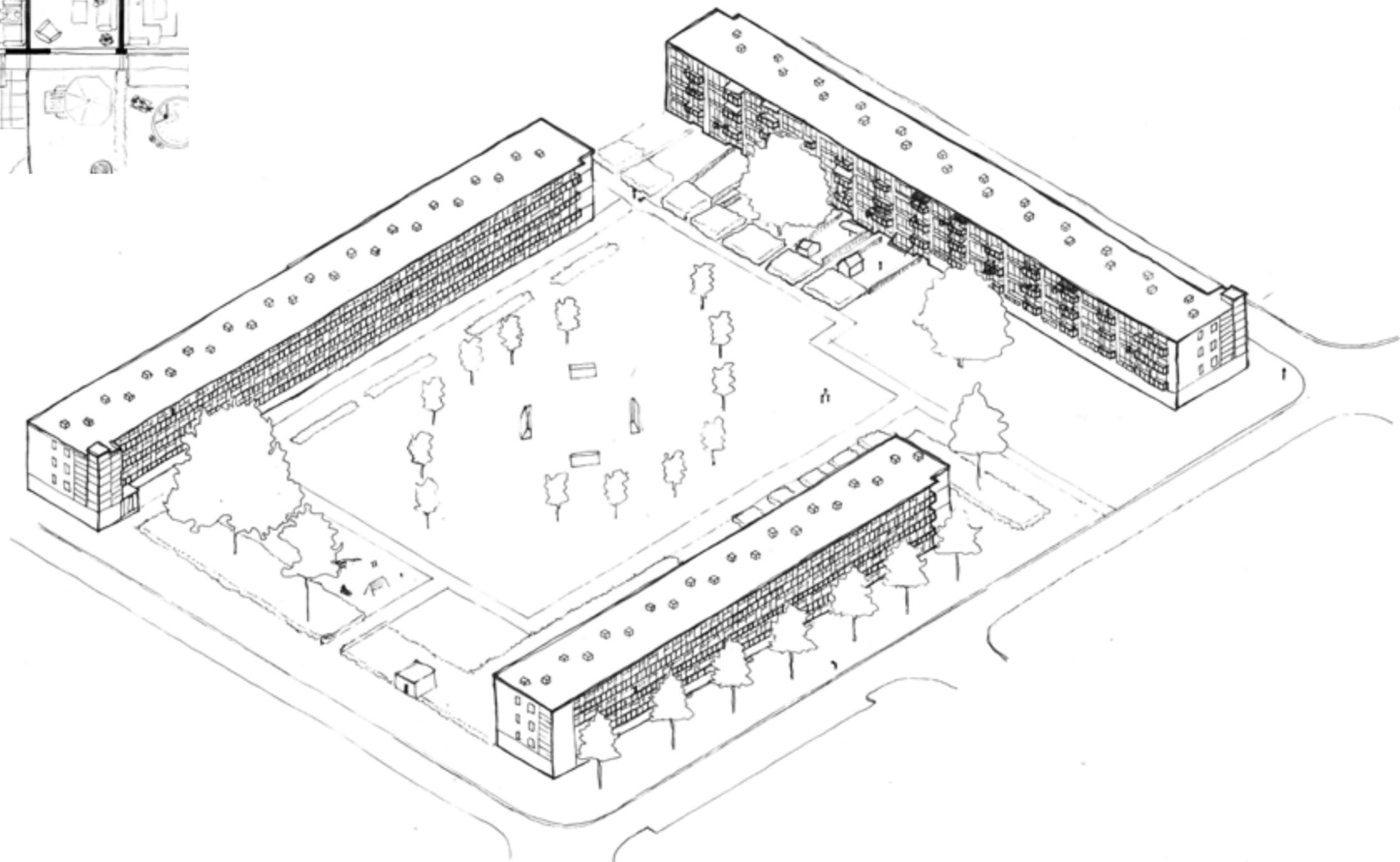
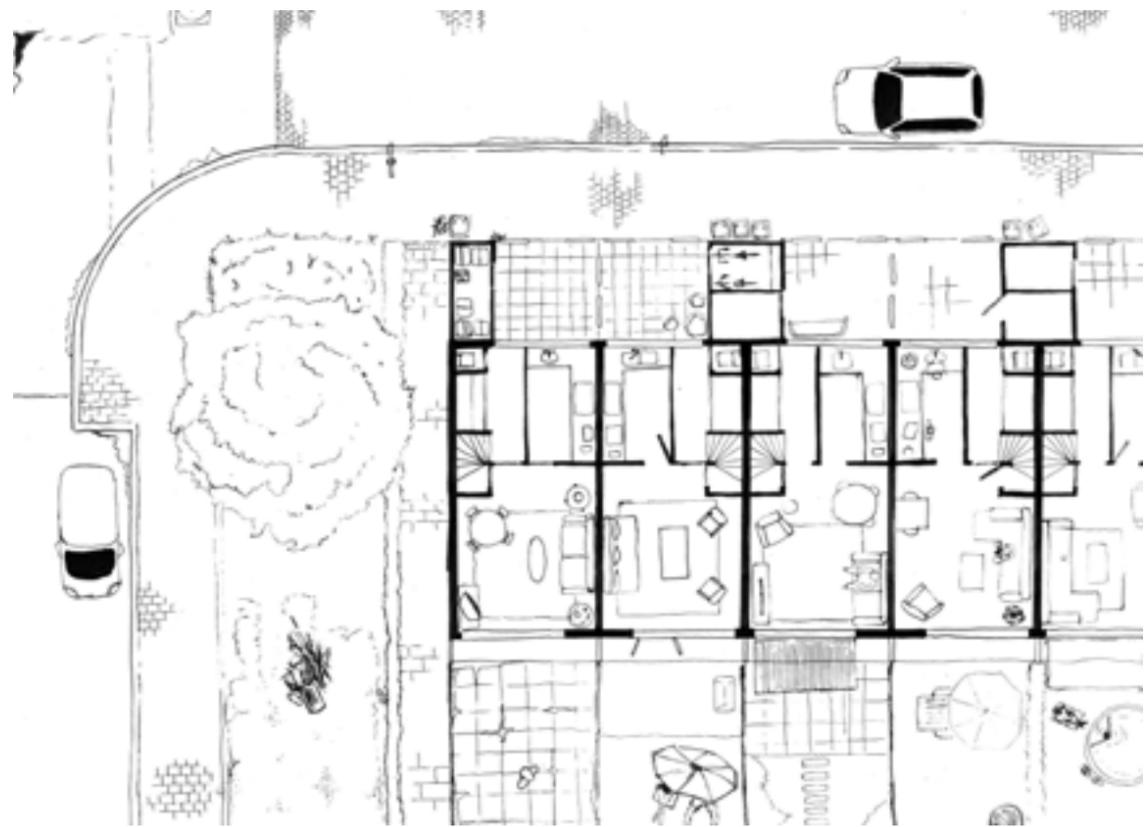
community organisations, not-for-profit organisations and small contractors.

government agencies and large scale contractor

manage resources







***How can a participatory
design practice
incentivise collaborative
housing solutions to
better manage existing
resources?***

Participation

Collaboration

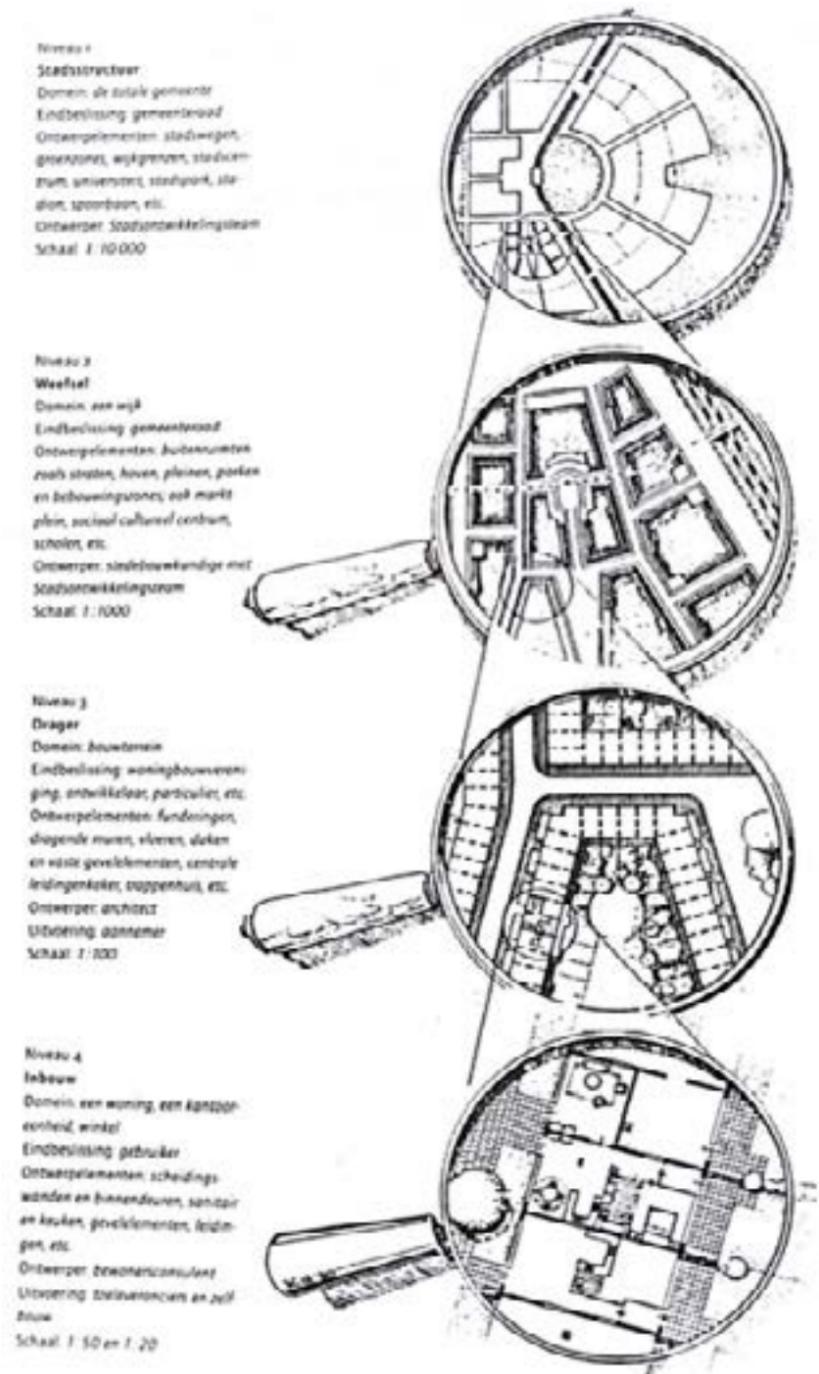
Transformation



Who gets to decide?

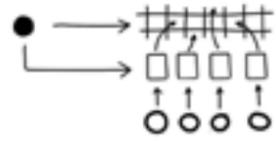


What are the parameters in which participation exists?



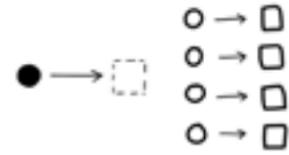
At what scale will the participatory design practice take place?

Improvisational Housing



Adelaide Road

Self-Build Methodology



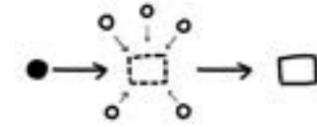
Walter's Way

Gamified Design



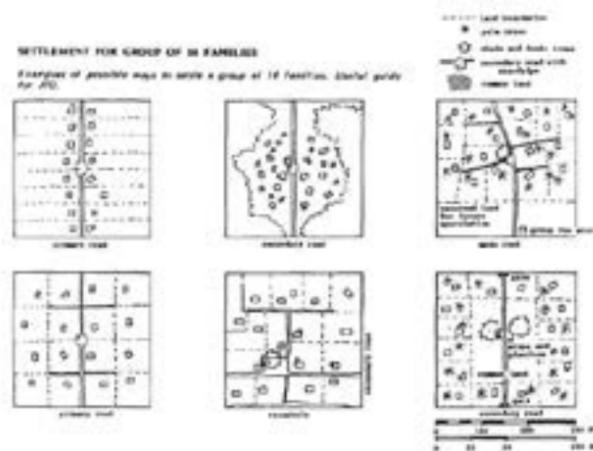
Living and Residing with Seniors in Rural Areas

Not-for-Profit Organisations



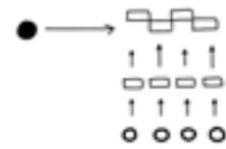
The Commons

Participation and Community



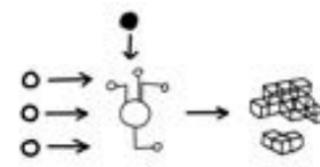
Housing with Houses

Design Reserve



Quinta Monroy

Computer Based Parametric Participation



GoDesign Game

1. Balloting System

2. Collective Board Game

3. Participatory Value Evaluation Tool

4. Urban Strategy



Allocation of Willingness

Situation: How many people would you be willing to share a kitchen with?

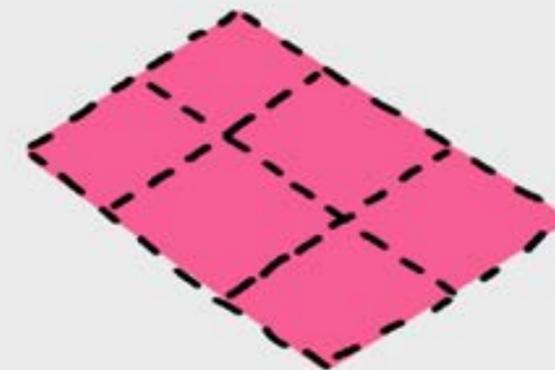
I would like to be alone 

I would like to share with 2-4 of my family 

I would like to share with 2-4 other strangers 

I would like to share with 6-12 other strangers 

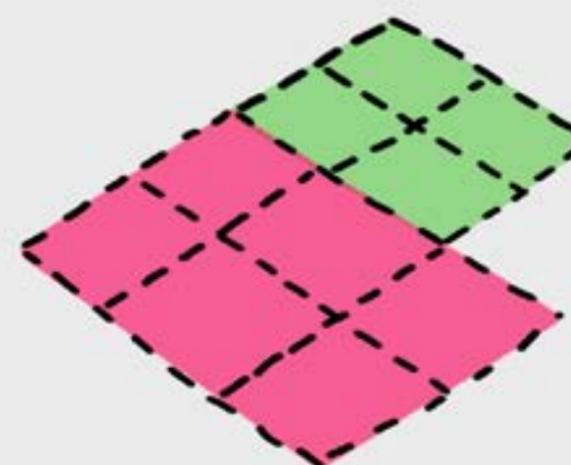
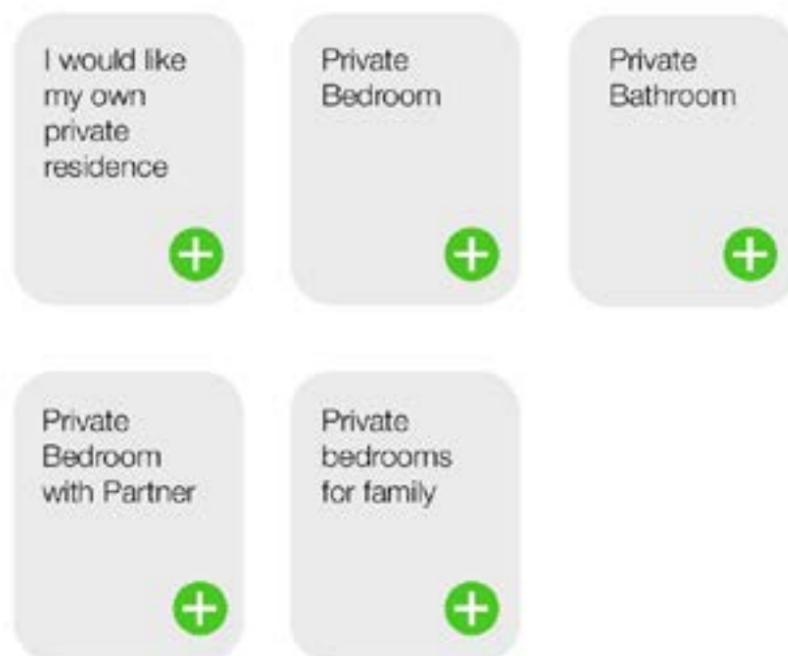
I would like to share with 12-30 other strangers 



Kitchen size: x sqm
Additional facilities: Multiple ovens, multiple stove tops, high quality services
Communal Group sizes: x people per home, x people per kitchen, x people per bathroom
Rental cost: x per month

Allocation of Willingness

Situation: How much private space do you need?



Private Bedroom size: x
Additional facilities: Multiple ovens, multiple stove tops, high quality services
Communal Group sizes: x people per home, x people per kitchen, x people per bathroom
Rental cost: x per month

Allocation of Willingness

Situation: Furnished or unfurnished?

I would like everything furnished



I would like communal spaces to be furnished



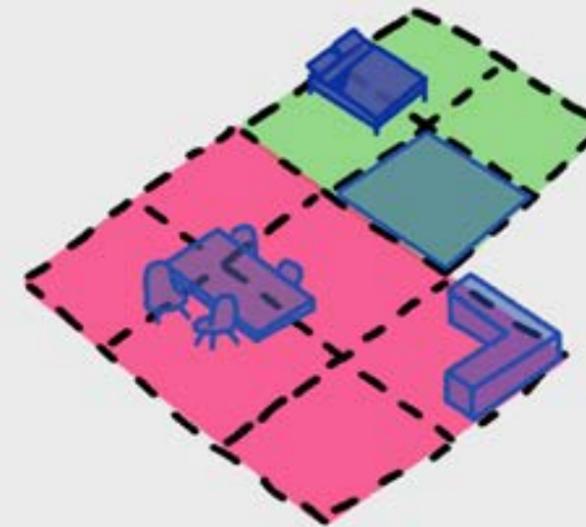
I do not want any of the spaces furnished



I would like to put in my own flooring.



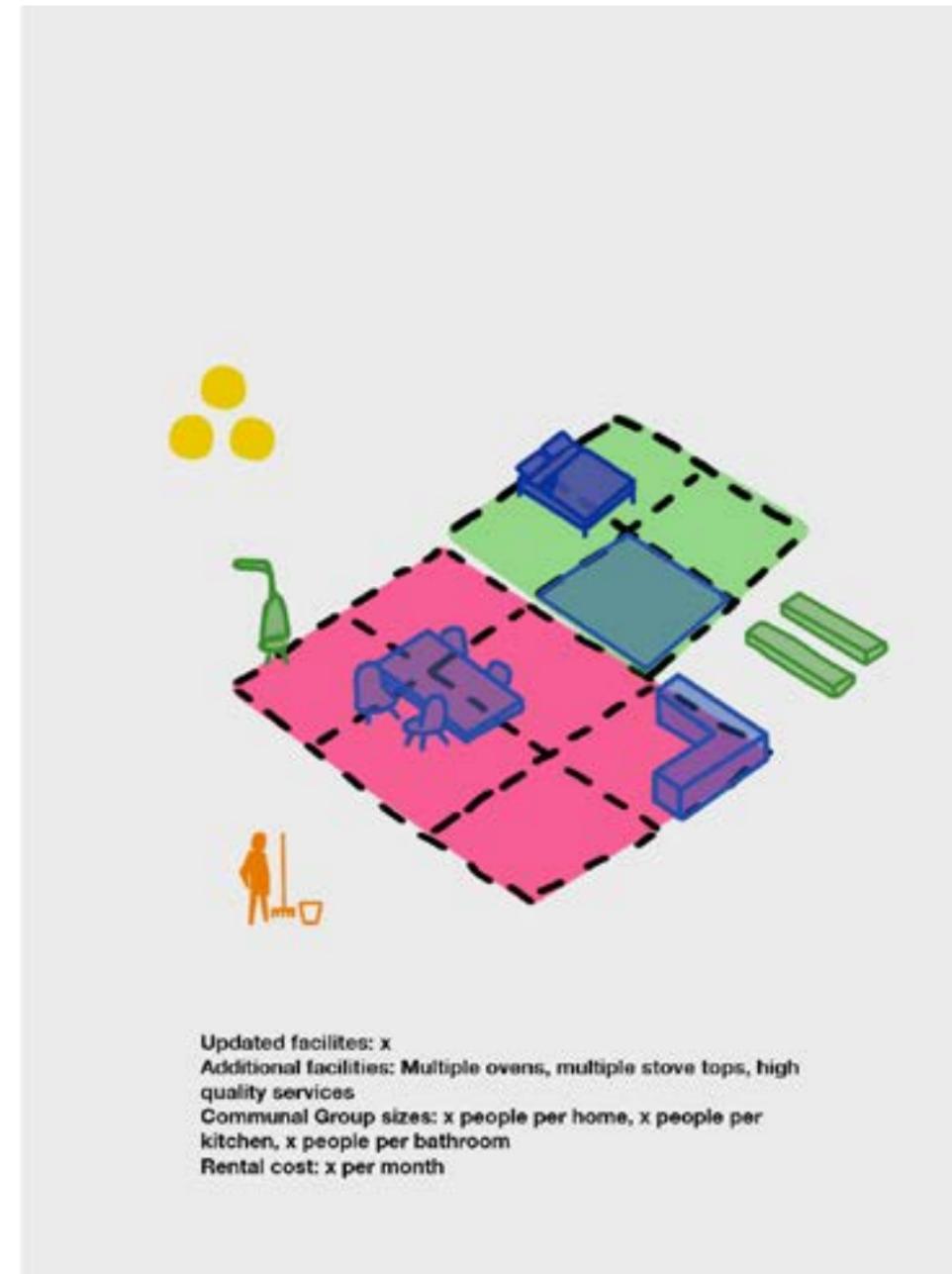
I would like to select all the internal materials

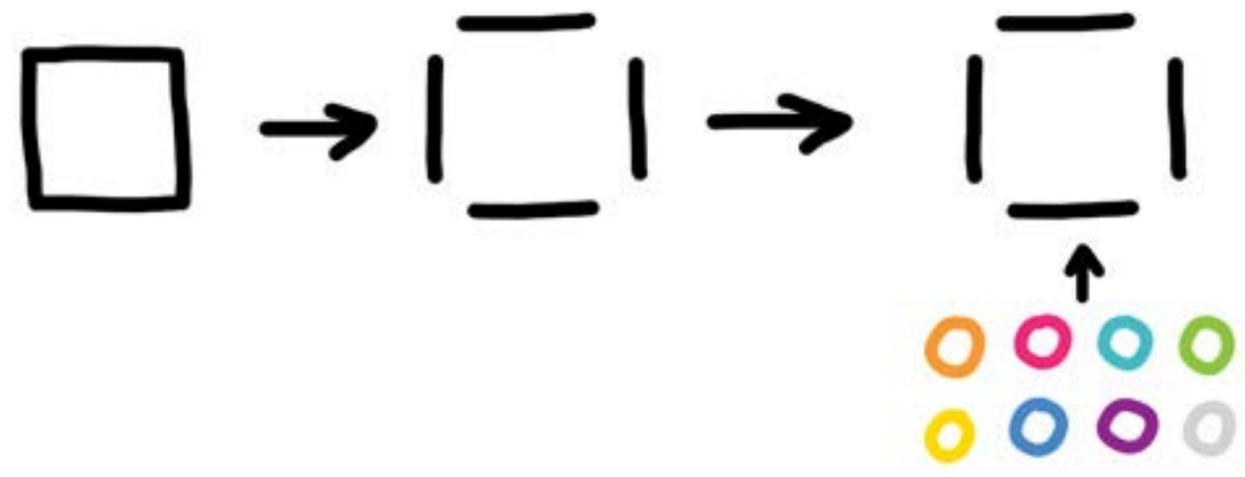


Furnished areas: x
Additional facilities: Multiple ovens, multiple stove tops, high quality services
Communal Group sizes: x people per home, x people per kitchen, x people per bathroom
Rental cost: x per month

Allocation of Willingness

Situation: Additional sustainable features?





Strengthen the core features of the Garden City



1. Strengthen city core with public resources

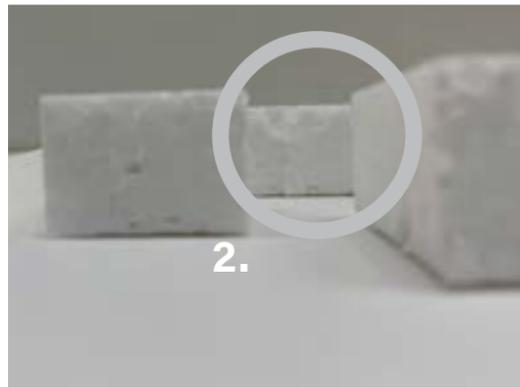
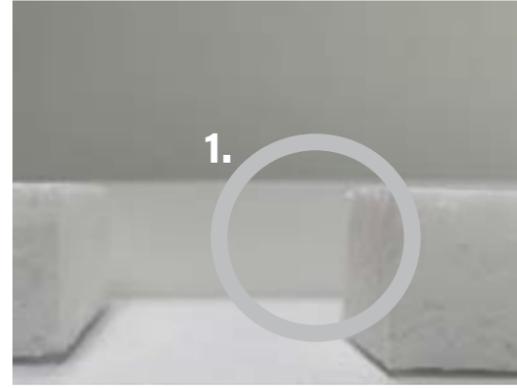
2. Strengthen spinal connection with public transport

3. Enhance Green Strips

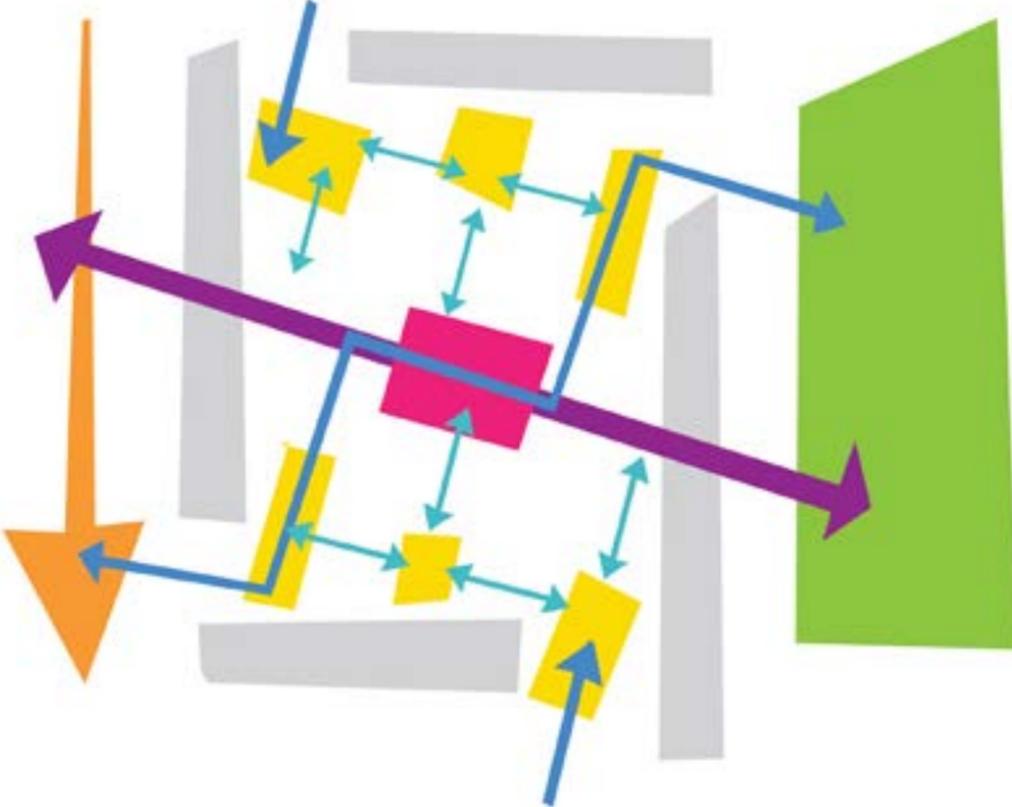
4. Connect the ring roads

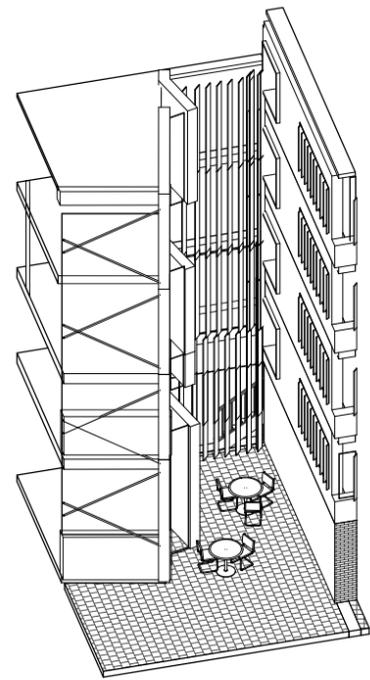
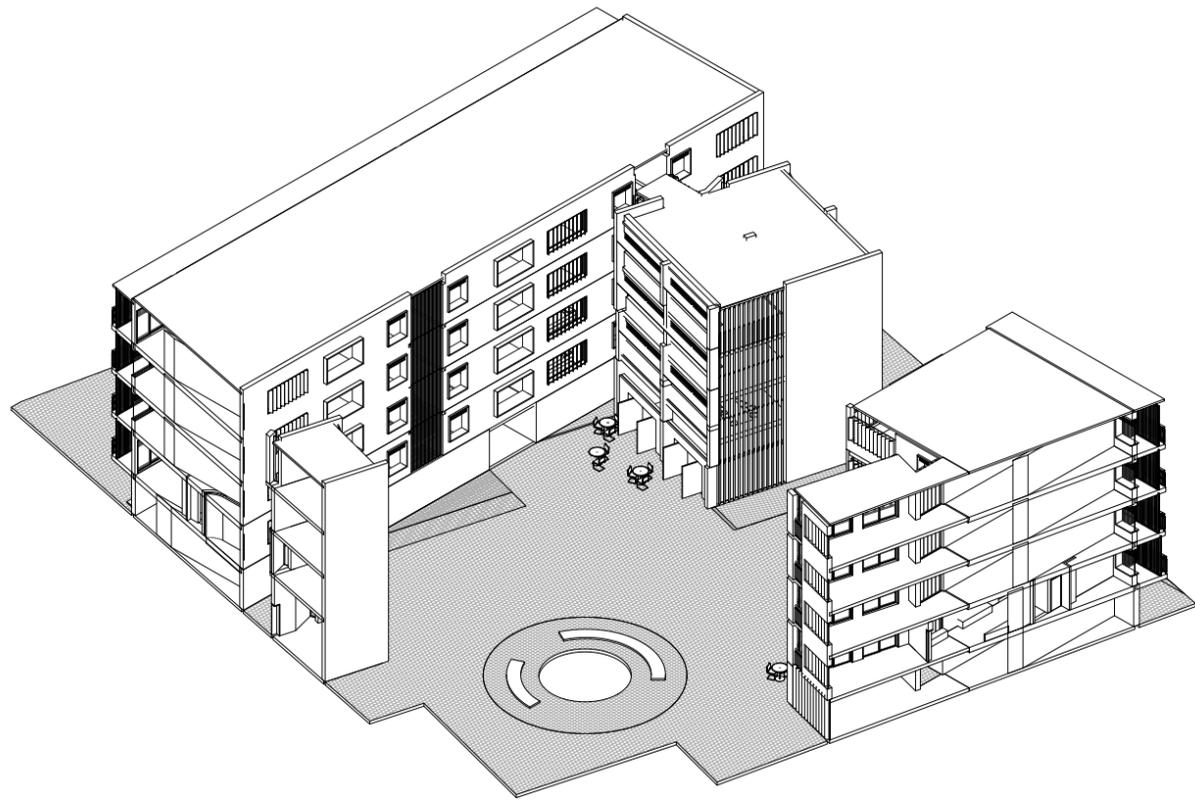


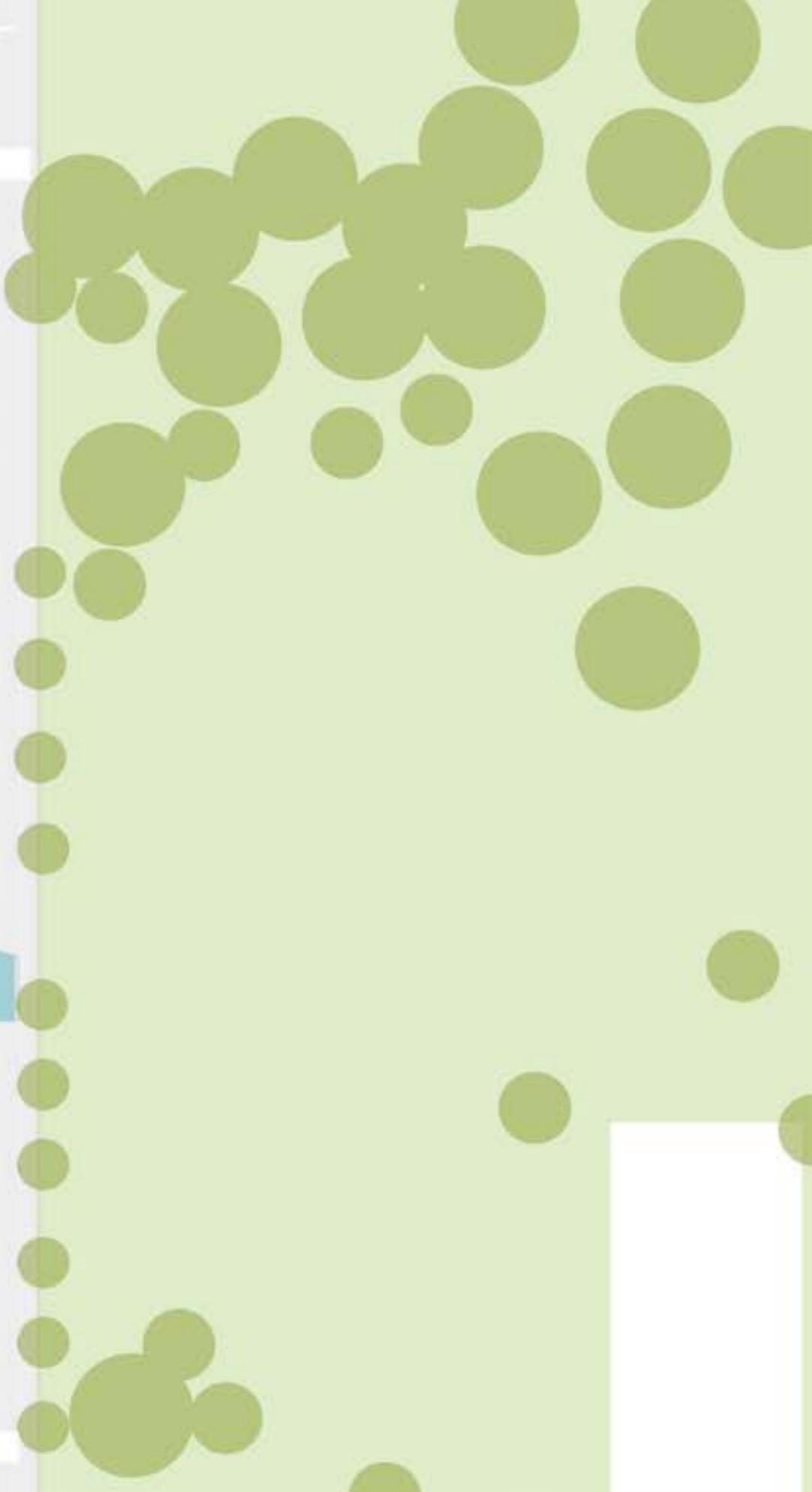
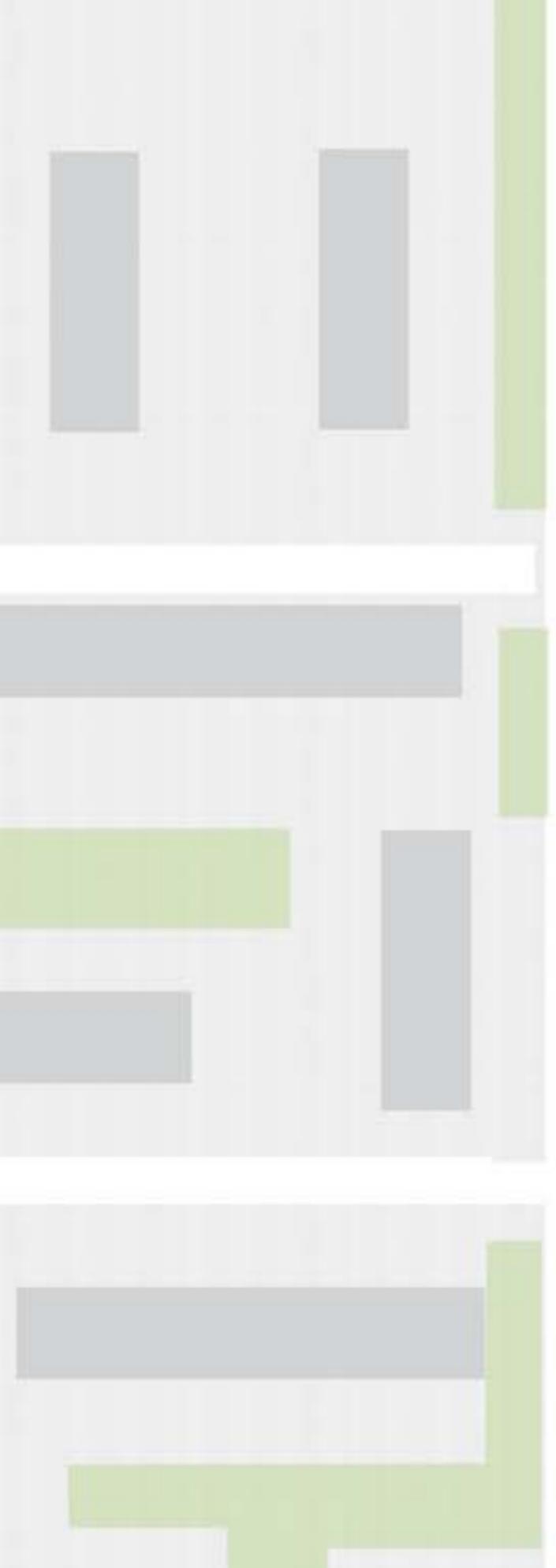


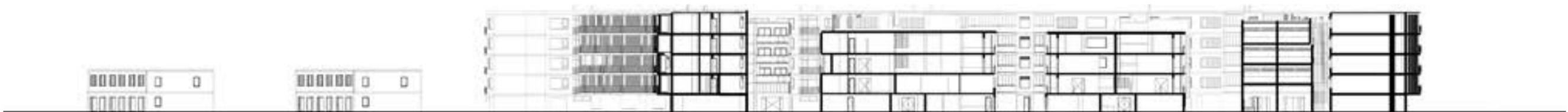


**anticipation of new space //
feature of intrigue
intrigue > discovery > intrigue**

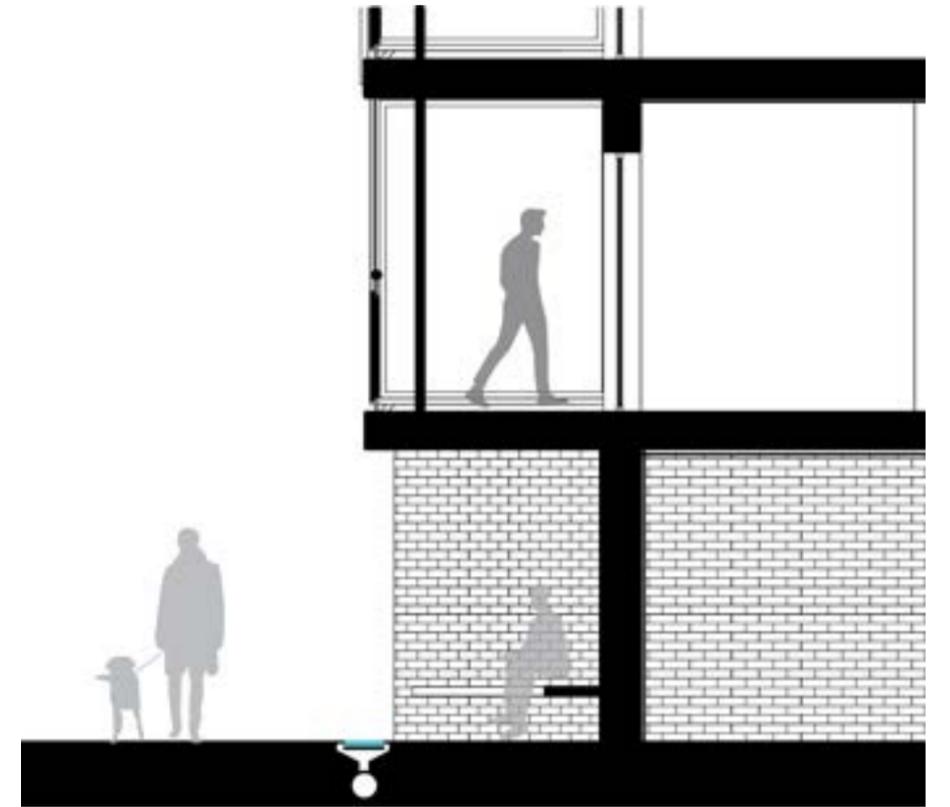
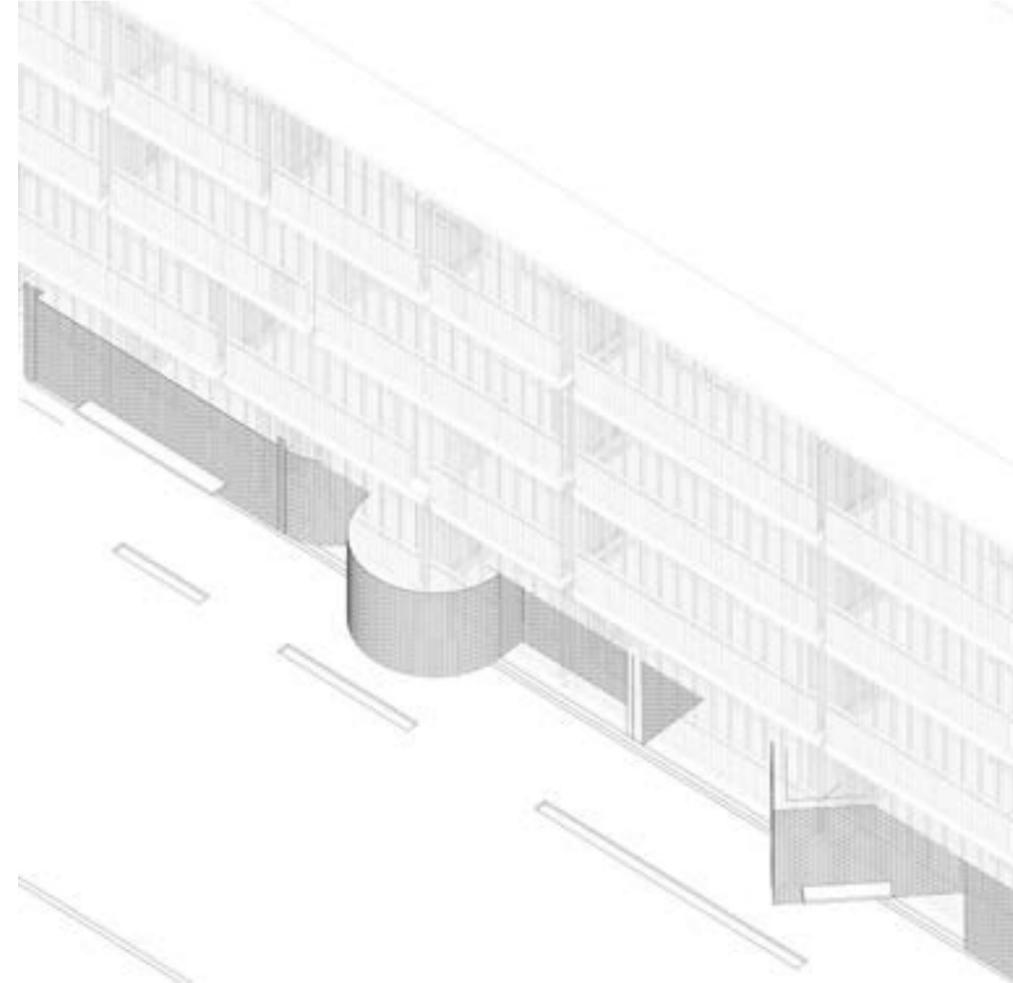


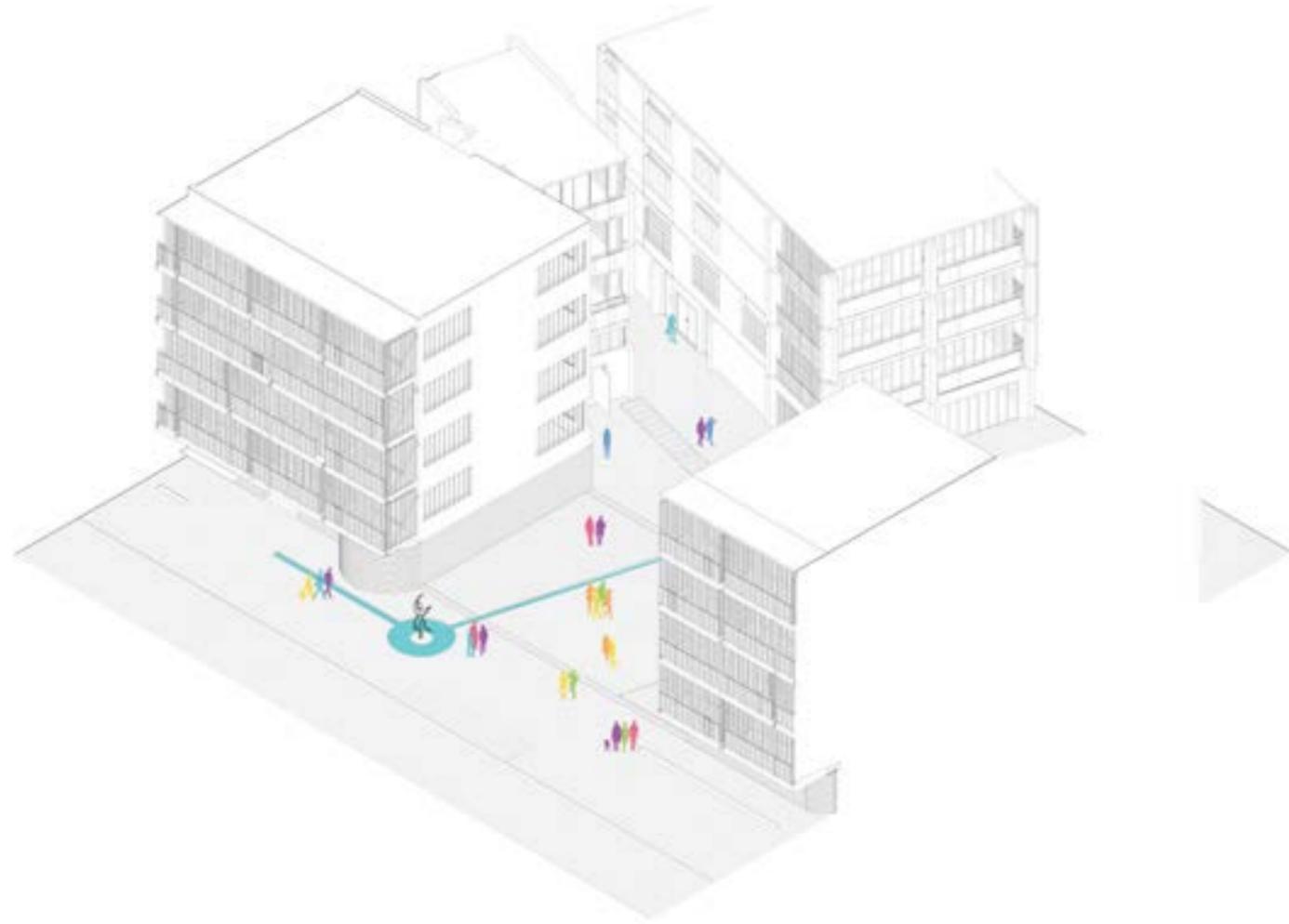


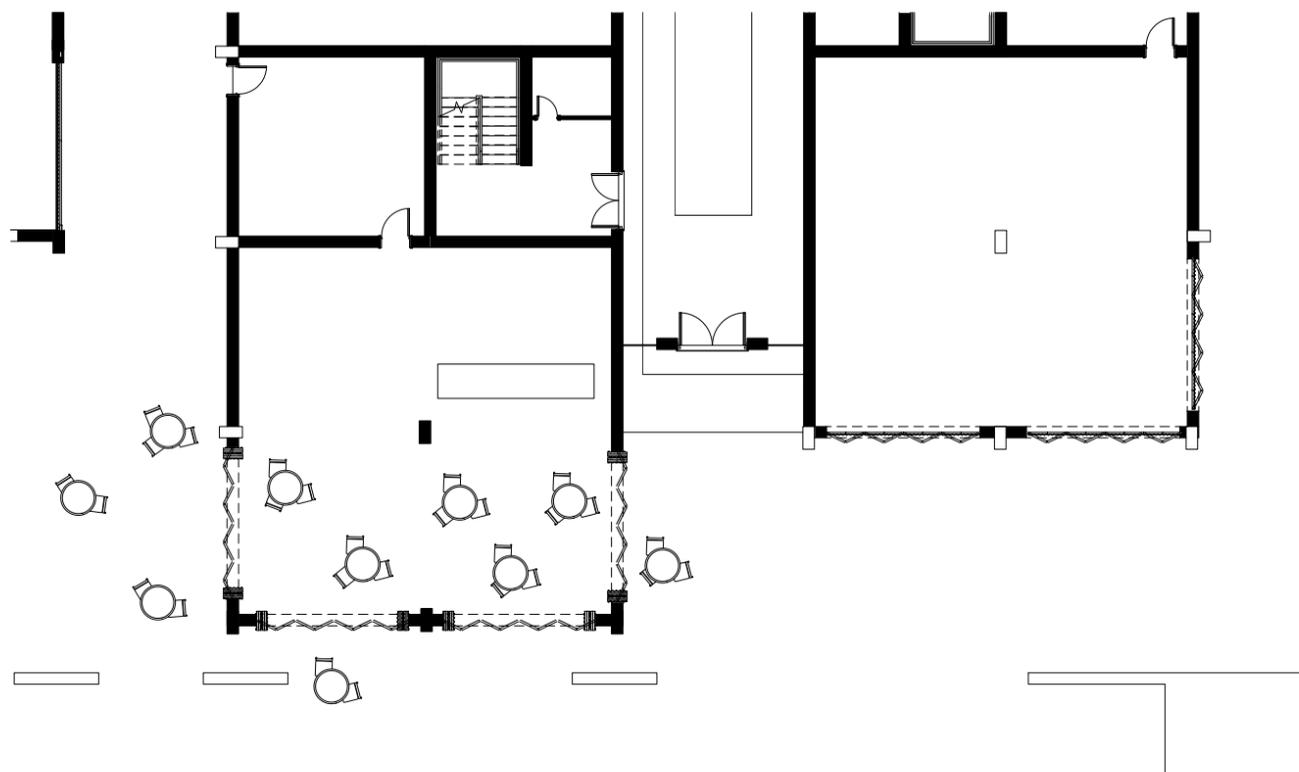




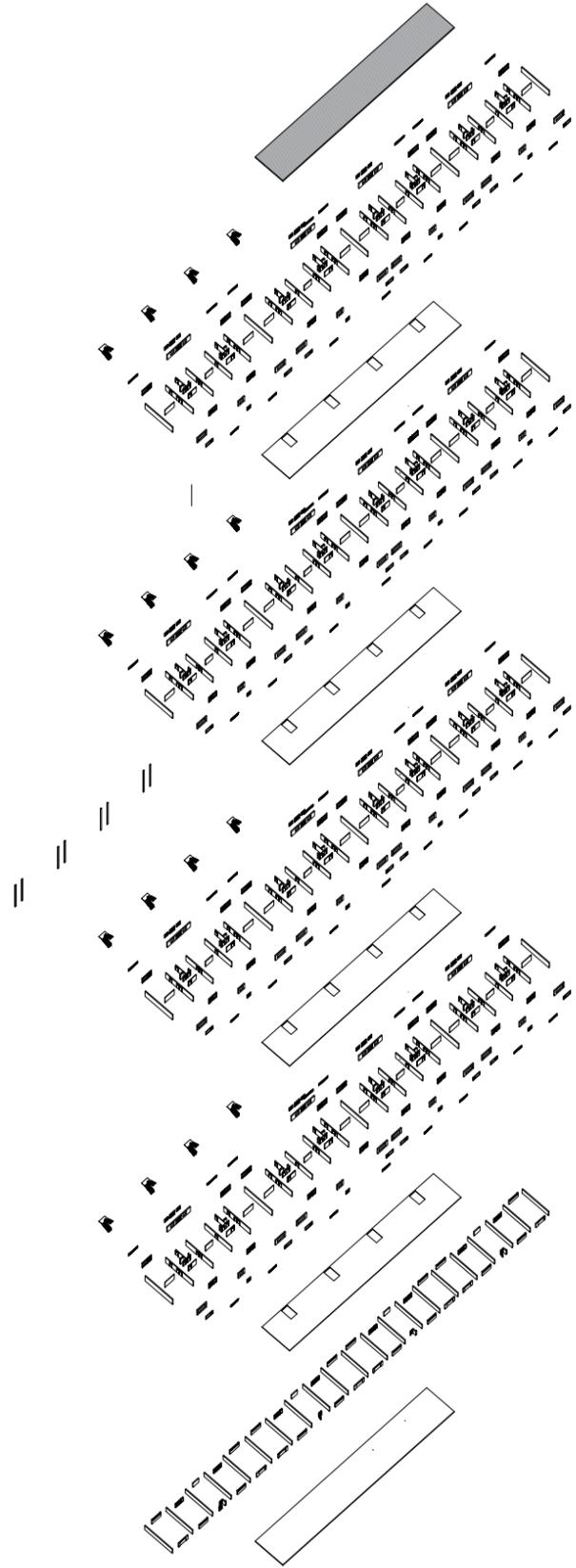
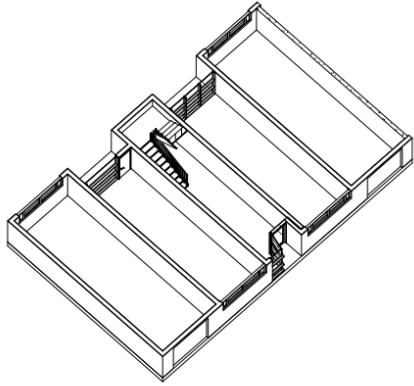
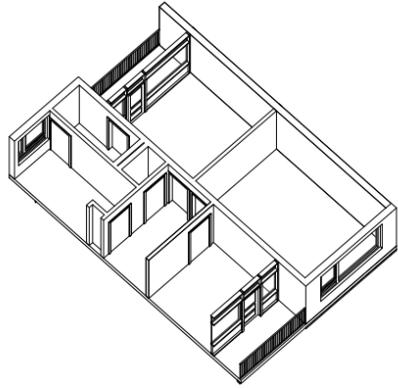
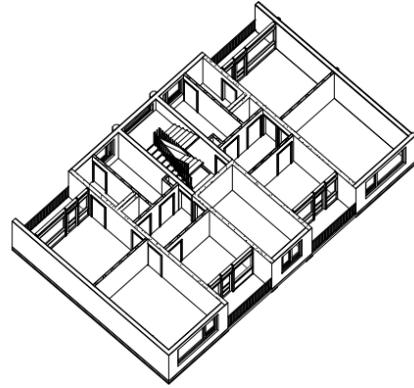
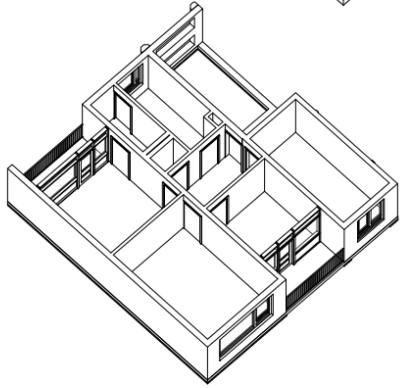
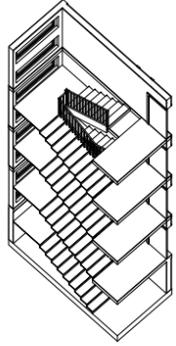
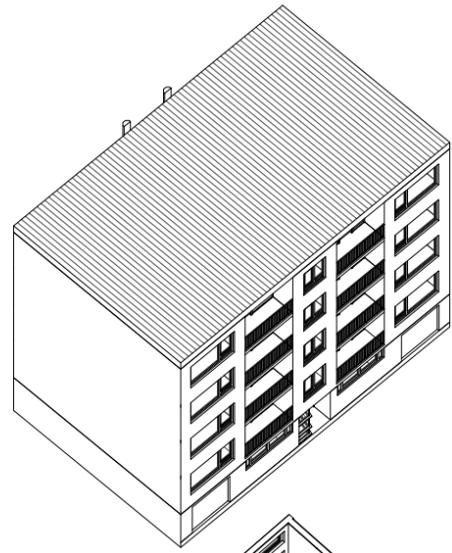


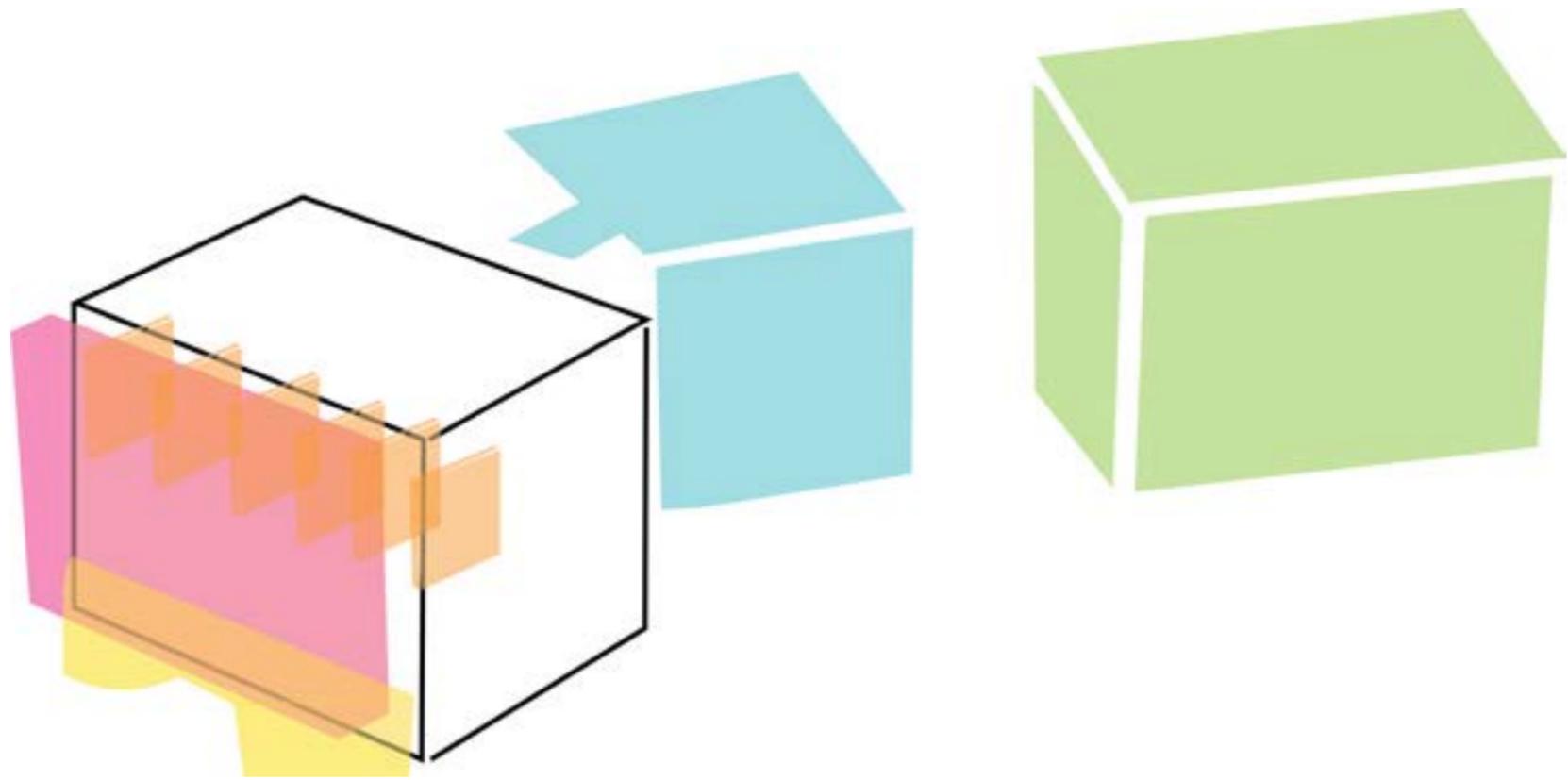


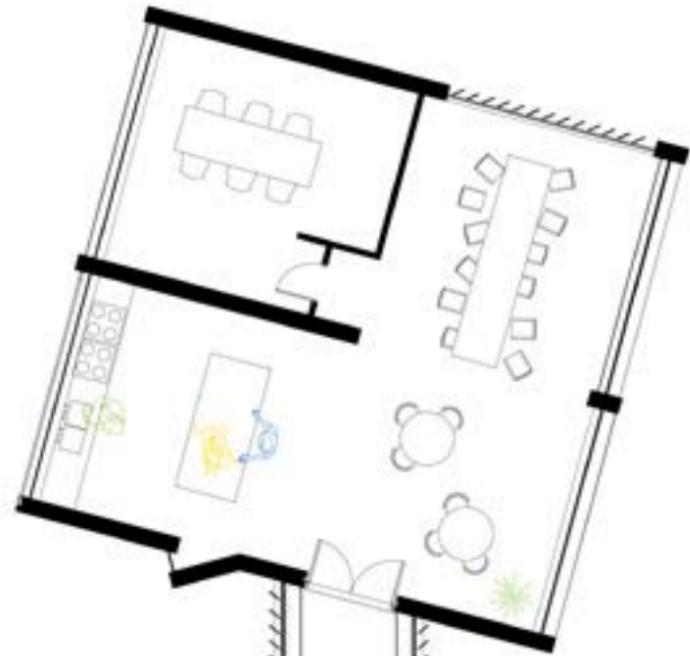
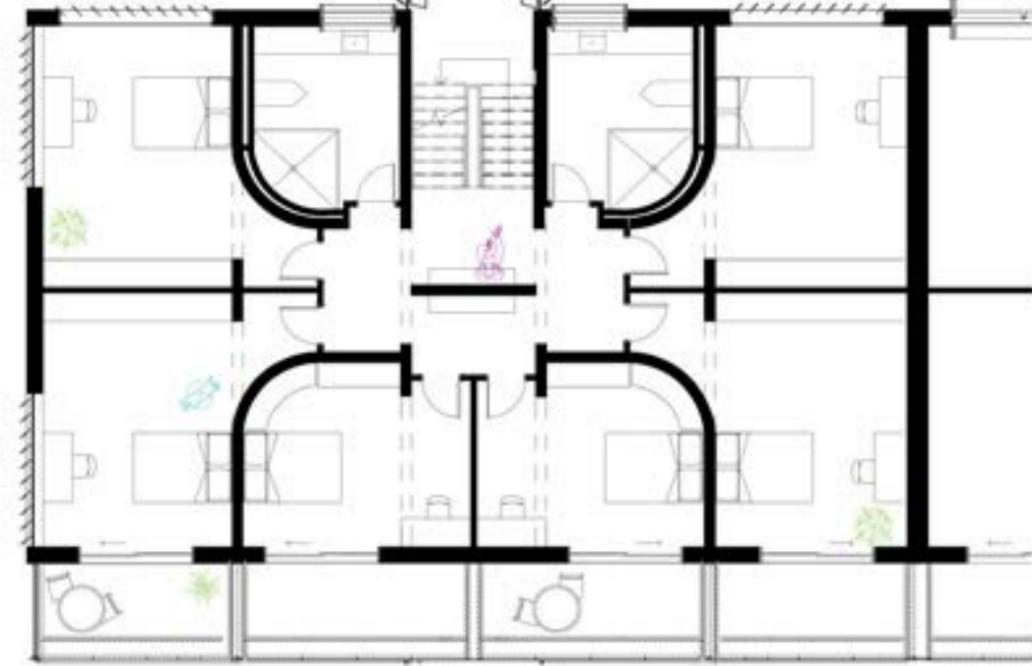
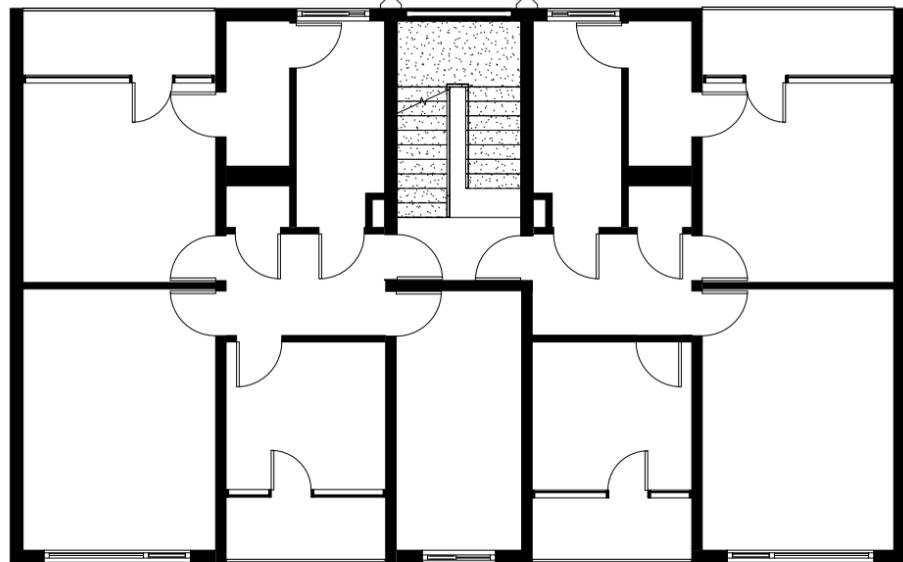




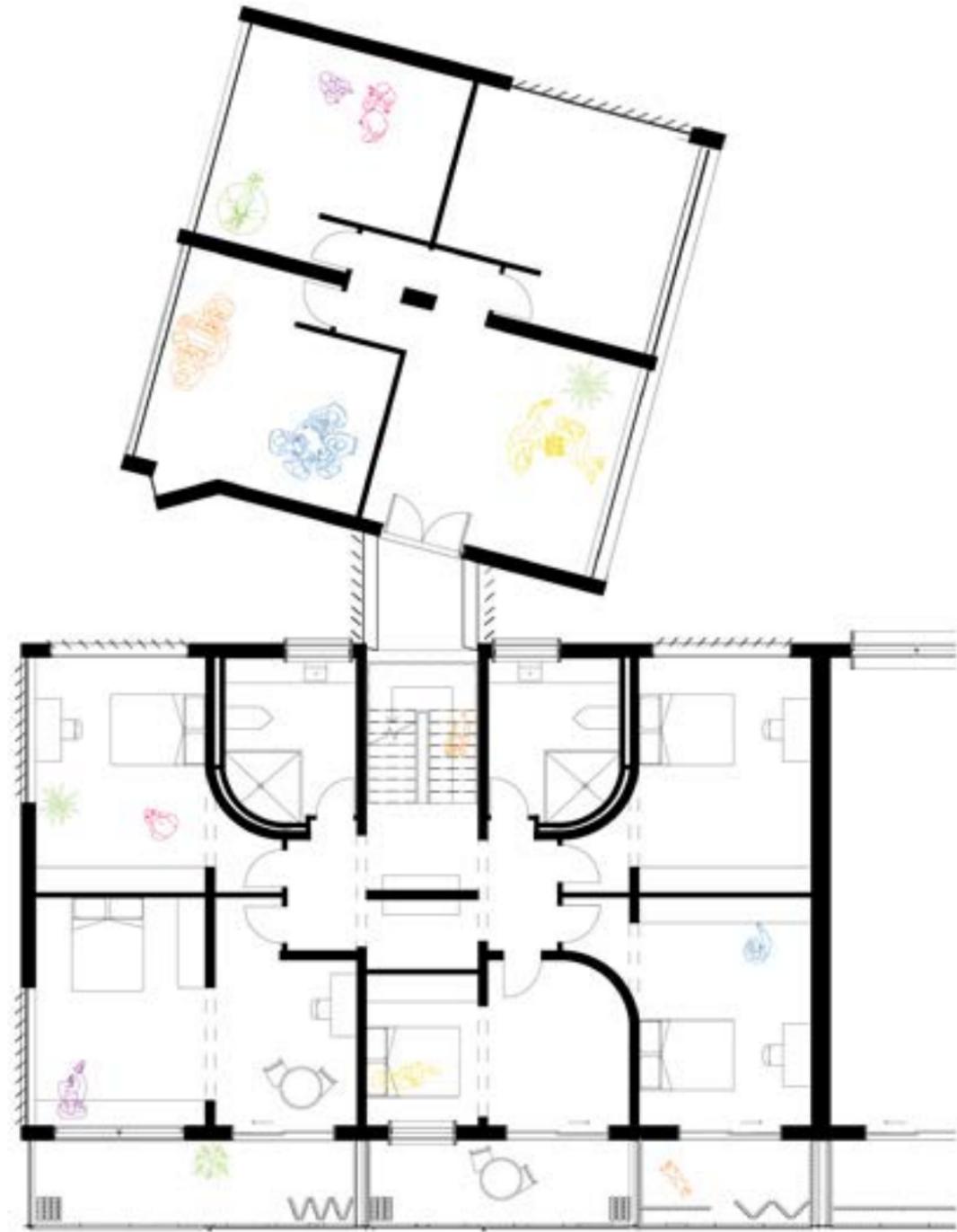
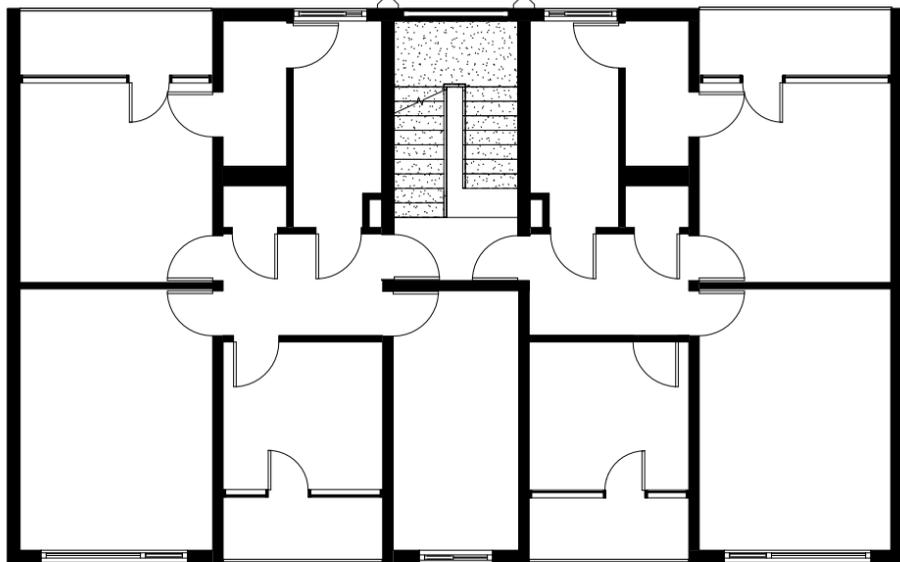


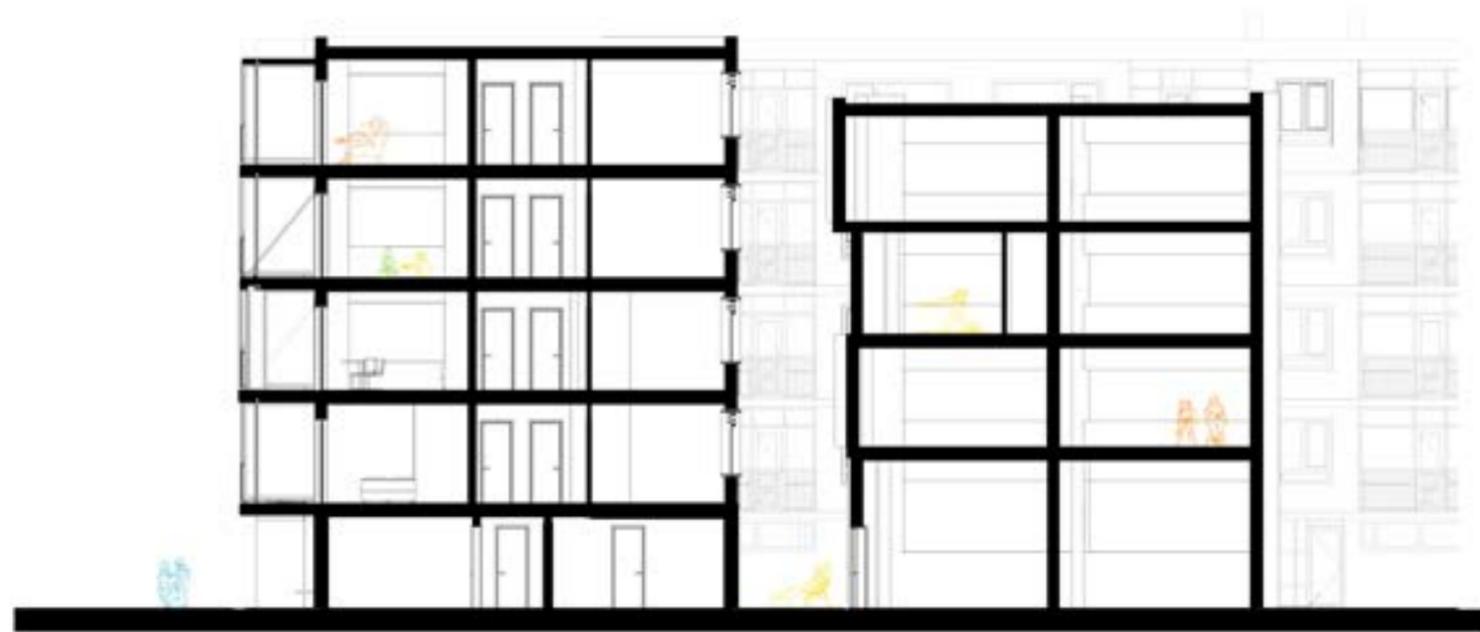
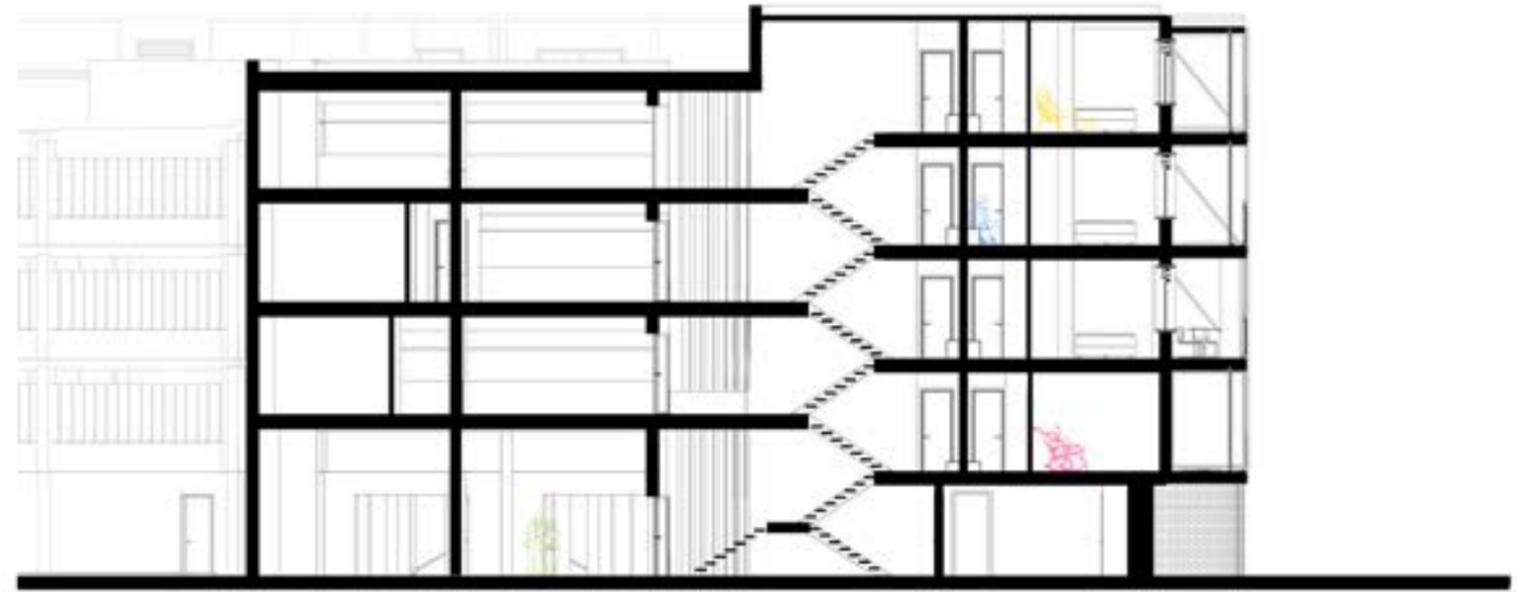
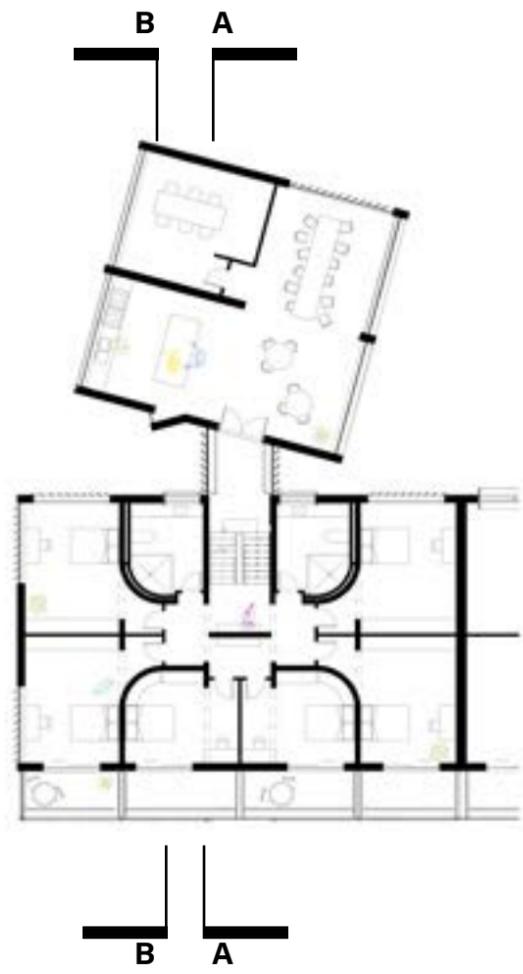


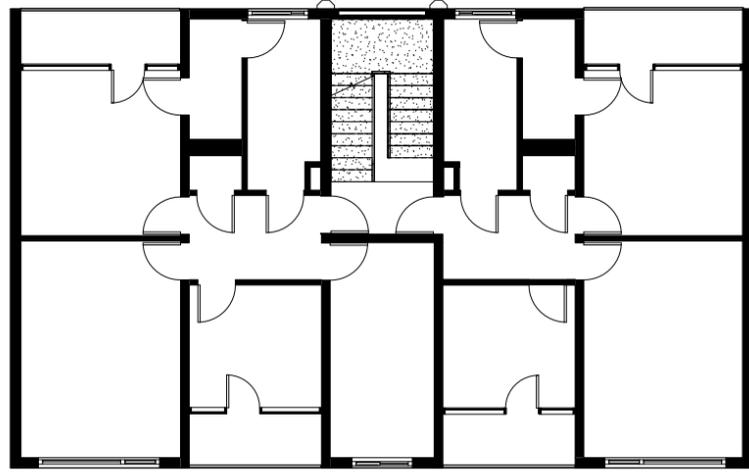


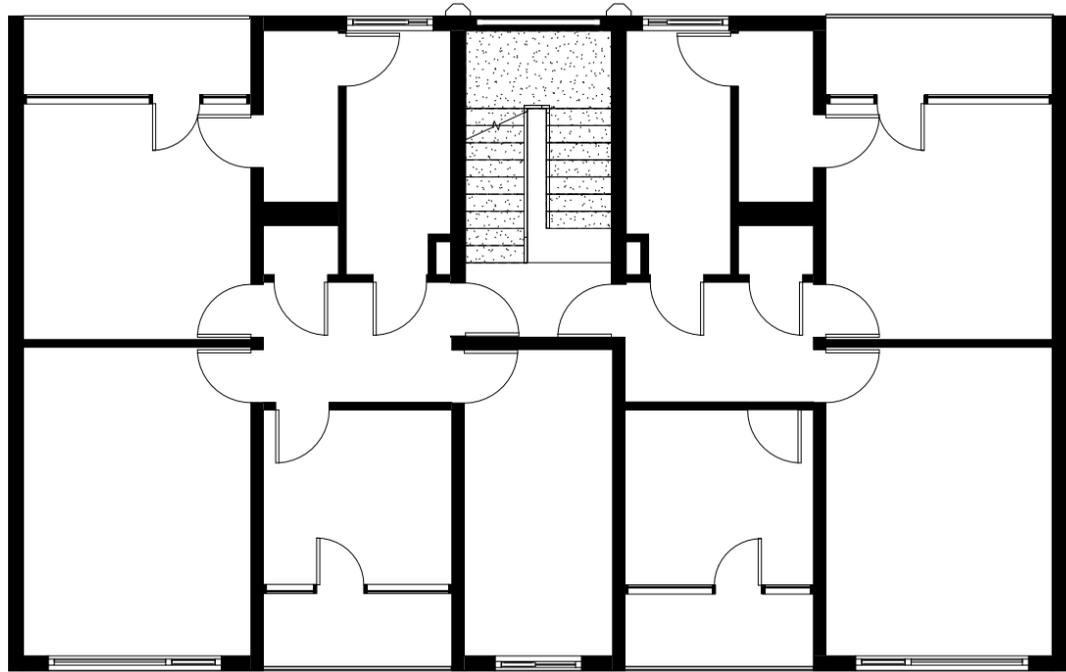


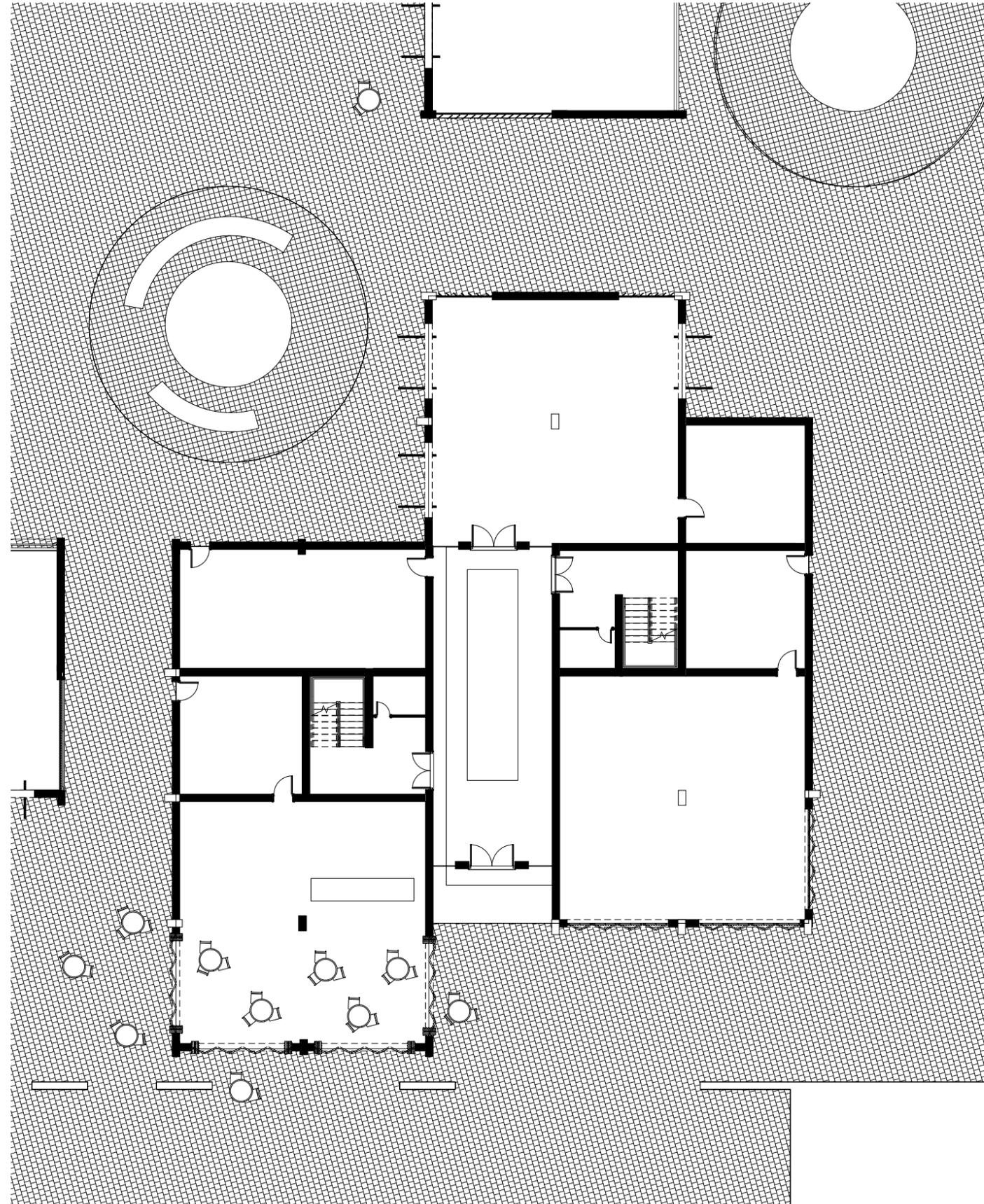


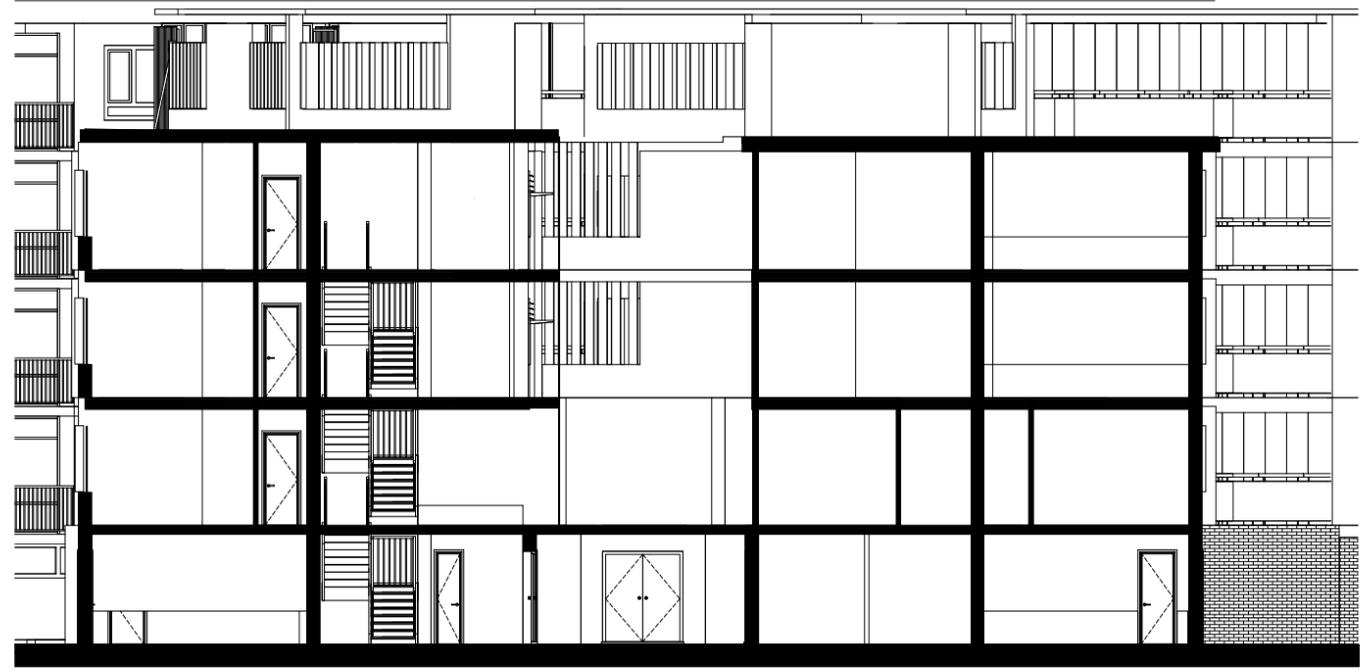
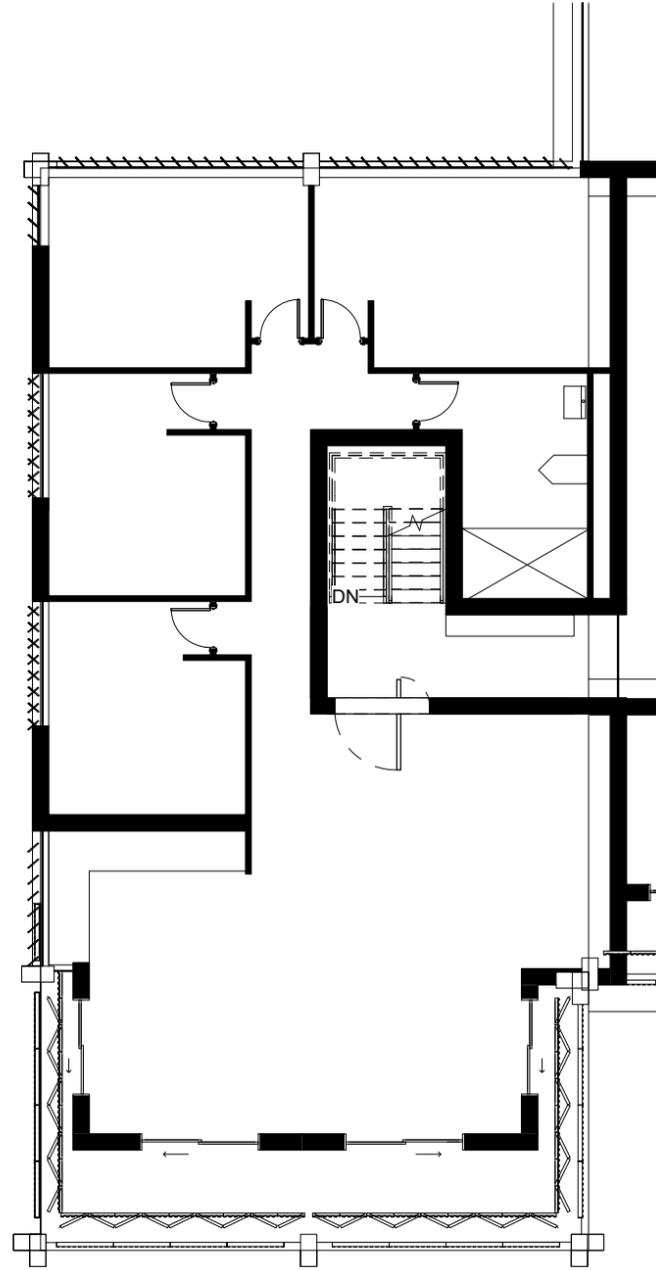


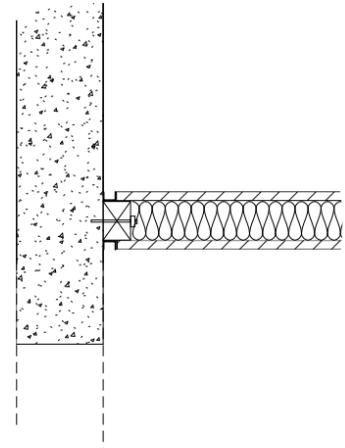
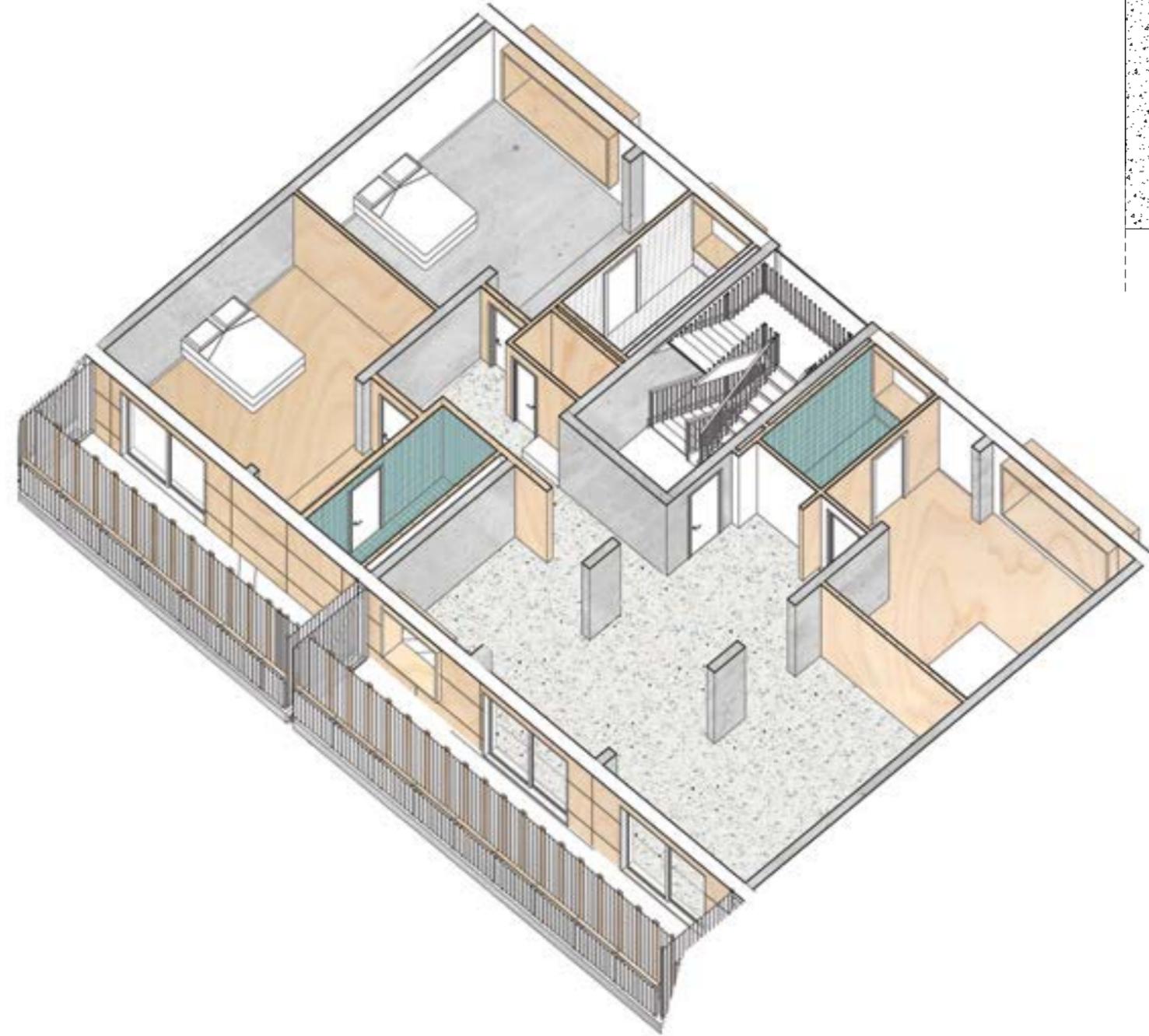








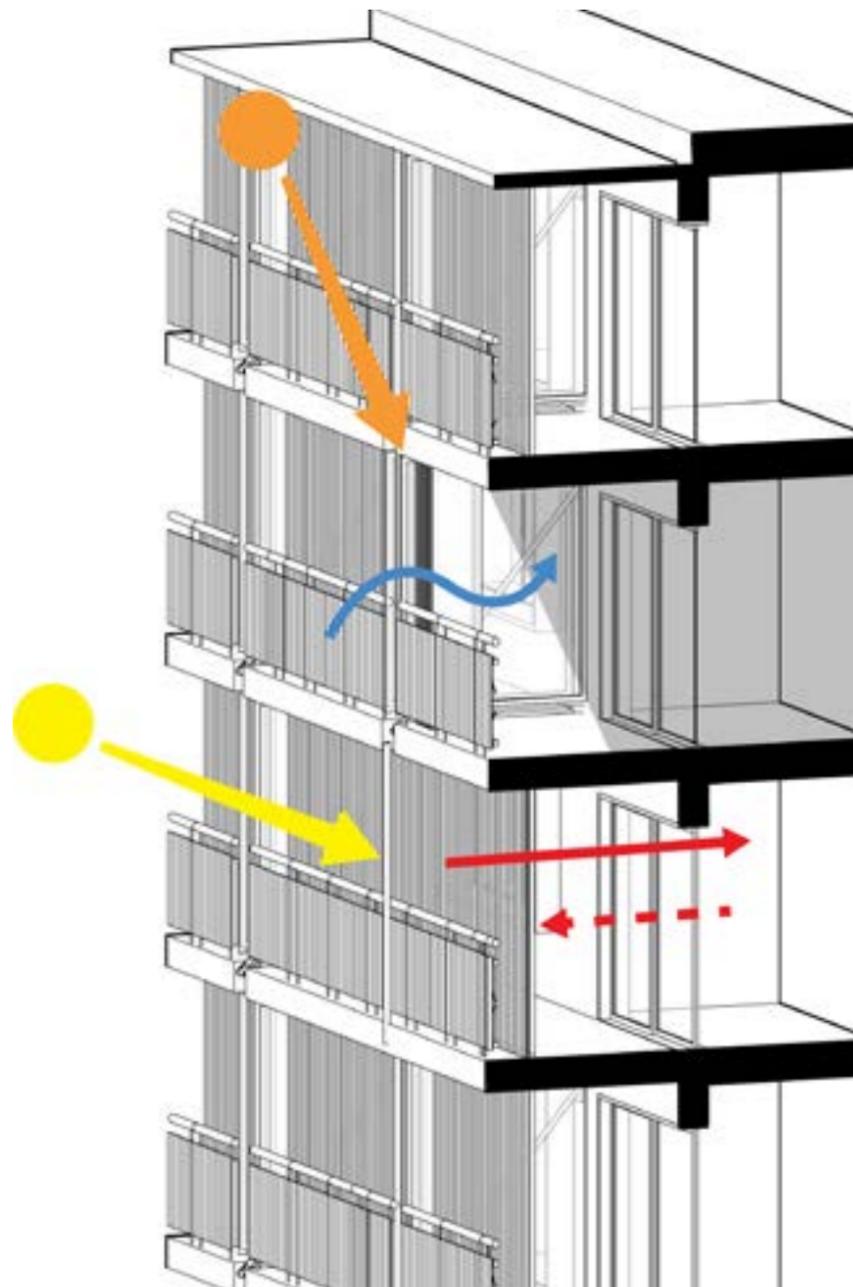




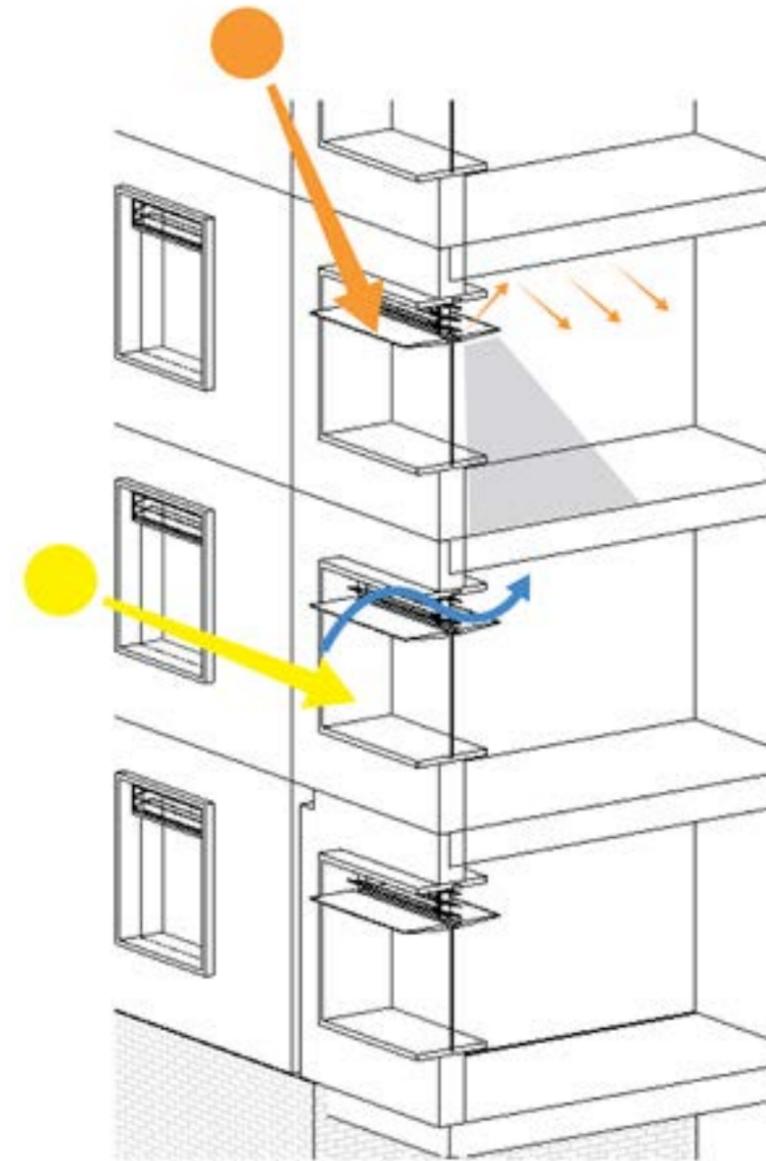
Material Palette Options:

- 1. Terrazzo tile (communal spaces)
- 2. Exposed Concrete
- 3. White Plasterboard
- 4. Fire retardant plywood veneer
- 5. Birch Floorboards (private)
- 6. Blue tile (Wet areas)
- 7. White Tile (Wet areas)

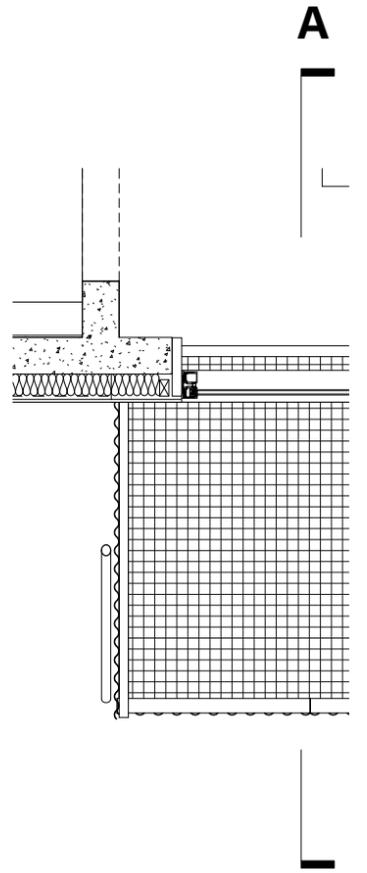
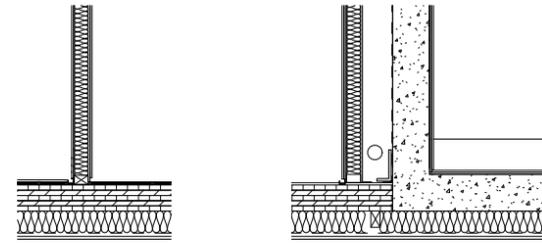
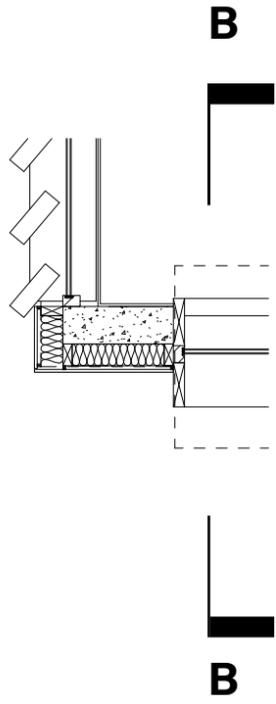
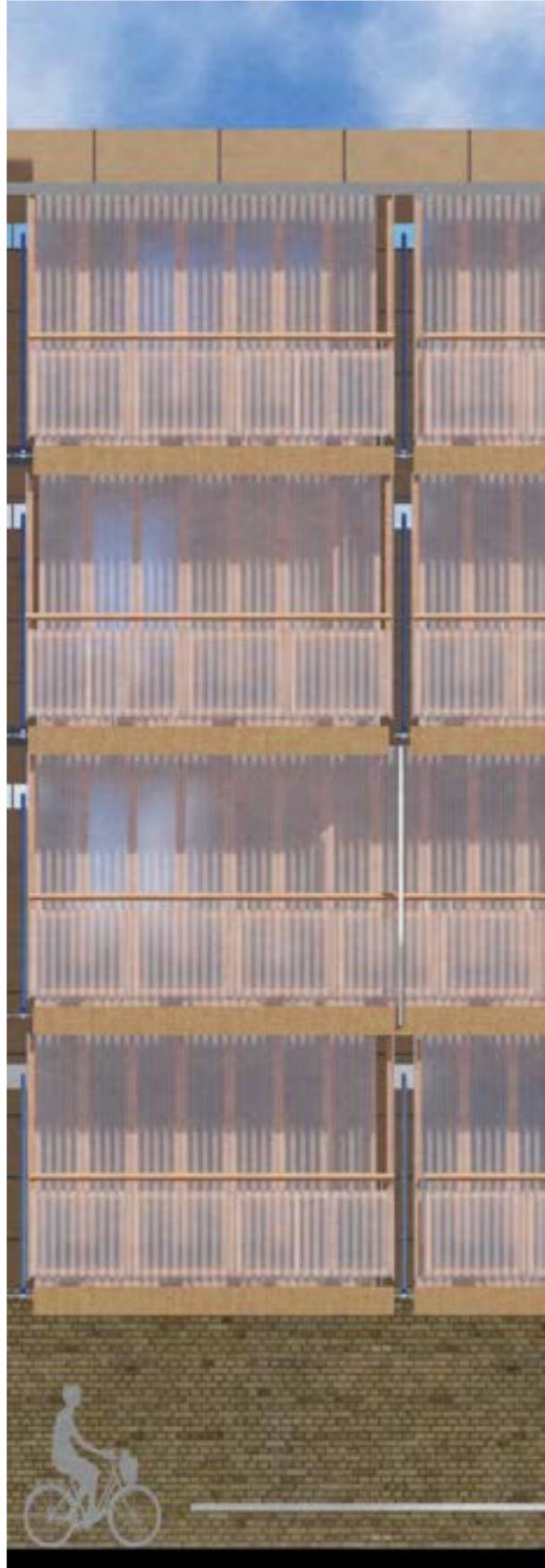
Higher quality materials due to more residences and reusing building materials



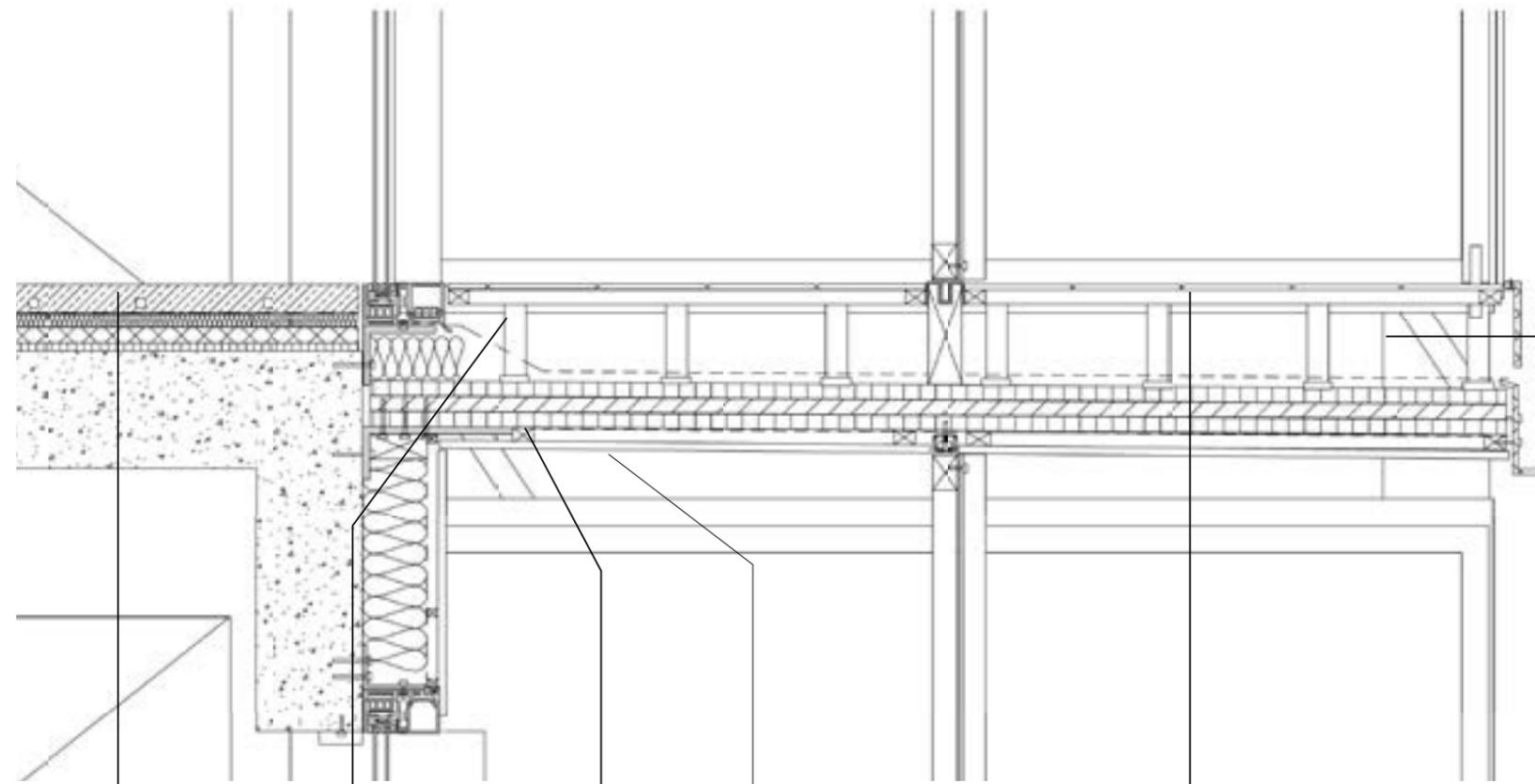
South Facade:
Summer: Open for ventilation, deep south balcony for shading
Winter: Close and retain heat from low winter sun



South Facade:
Summer: shades high sun and reflects into room
Winter: Lets in low sun



AA



10mm Polished speckled
Screed
53mm Screed with UFH
Heating pipes
Water Vapour Barrier
27 mm sound impact
insulation
30mm infill bonded
15mm OSB board
200mm concrete
structures (existing)
50mm cavity insulation

Double glazed
Metaglass
sliding door
mounted on
Reinforced
angle bracket.

KLH Steel
angled brack-
et. 285x 85x
65mm,

Steel rod
50mm
diameter

PVC Accordion
doors

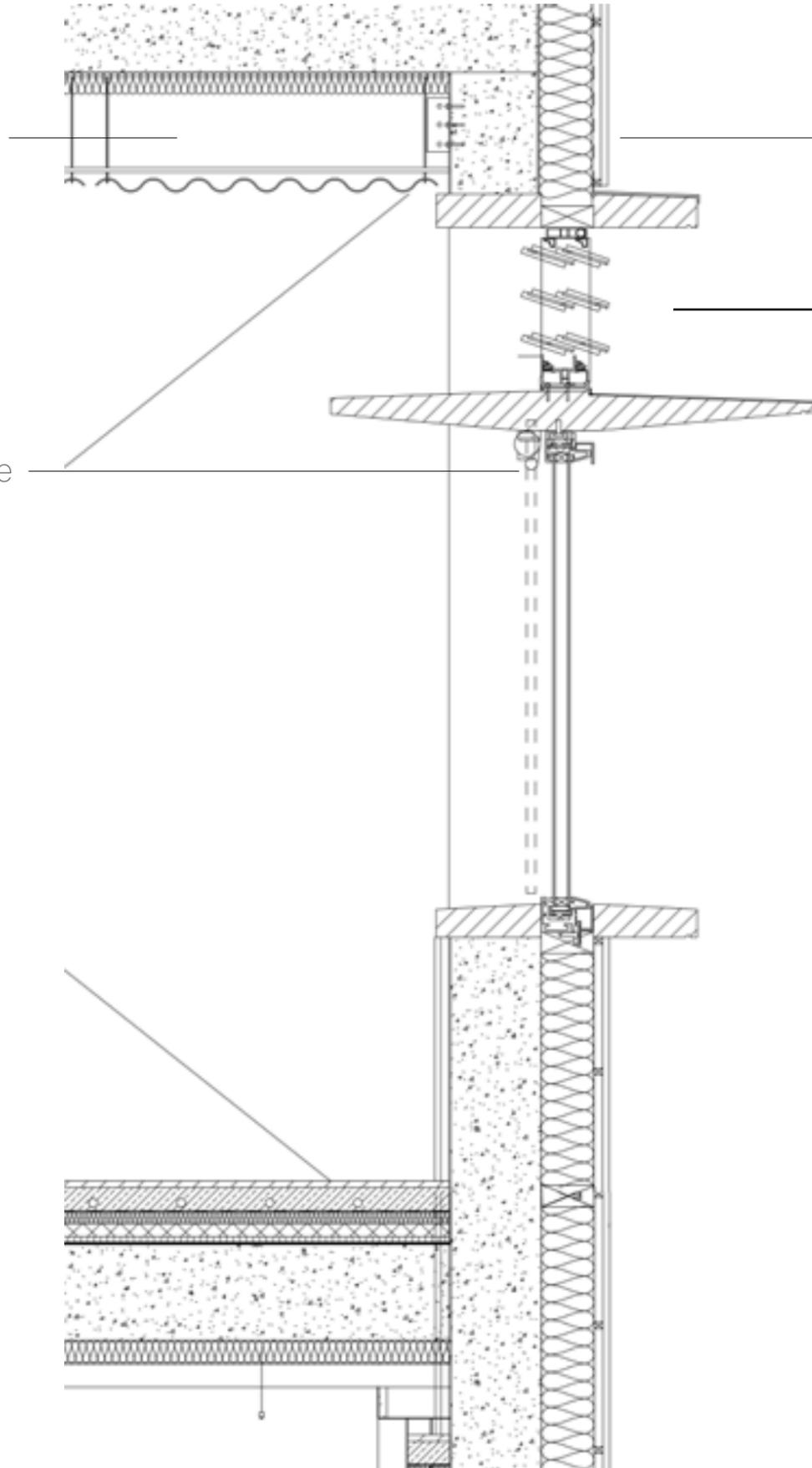
22mm timber panels
30mm timber battens
130-140mm mitred blocks
Waterproofing membrane
92mm CLT Structure
Waterproofing membrane
30mm timber battens
20mm timber battens

Ballustrade, pvc
mounted on tim-
ber frame with
50mm d. timber
hand railing,
aluminium drip
tray

B-B

Steel I Beam
(300x120mm) with flat
plate

Fabrics awning hand
crank with lateral guide
cables



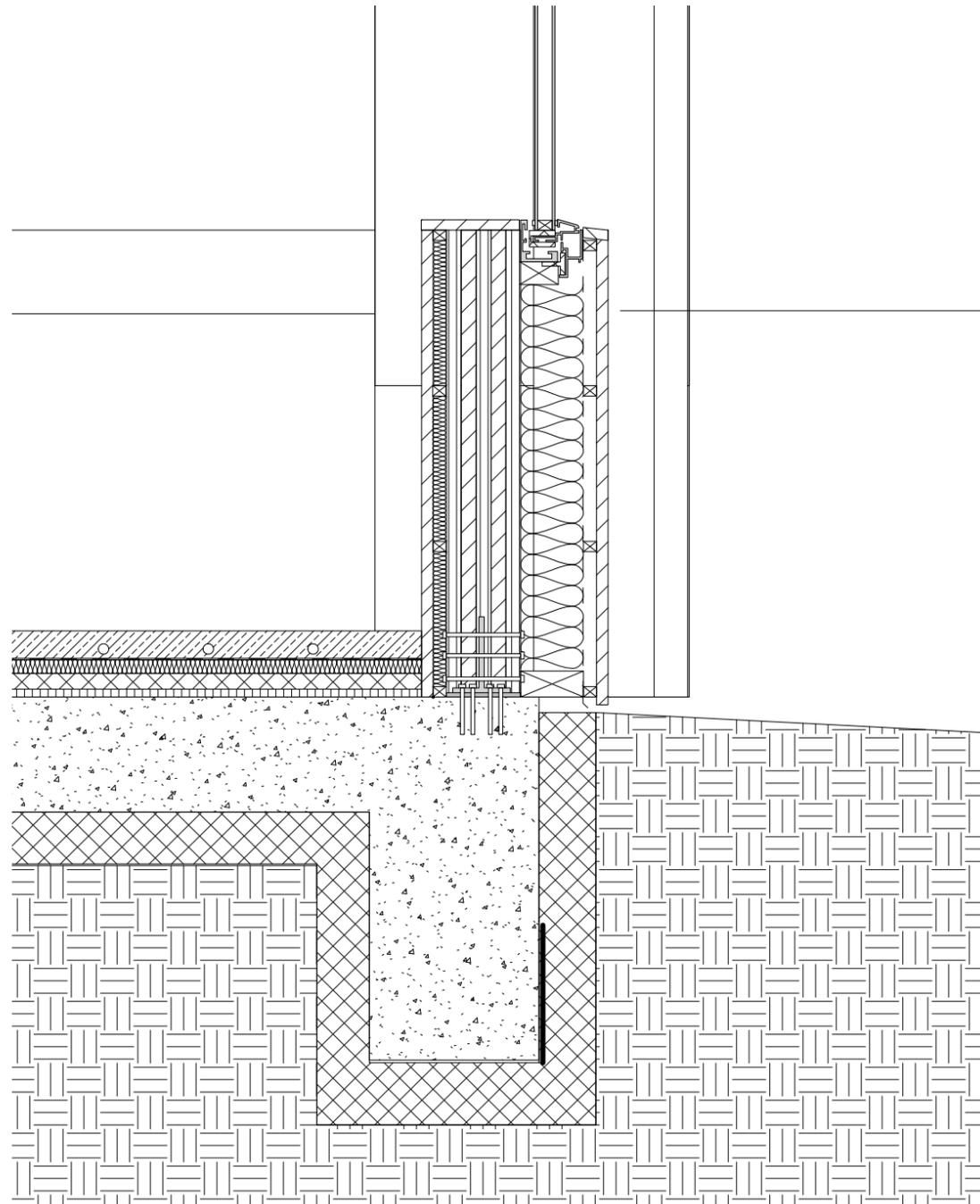
13mm Gypsum plasterboard
200mm Existing concrete
120mm Gutex Durio insulation
with 50mm timber battens
900mm spacing
Rain Screen
30mm ventilated cavity
2754x1200mm Plywood panels
fastened with riveting system

Double glazed Breezeway Louvers

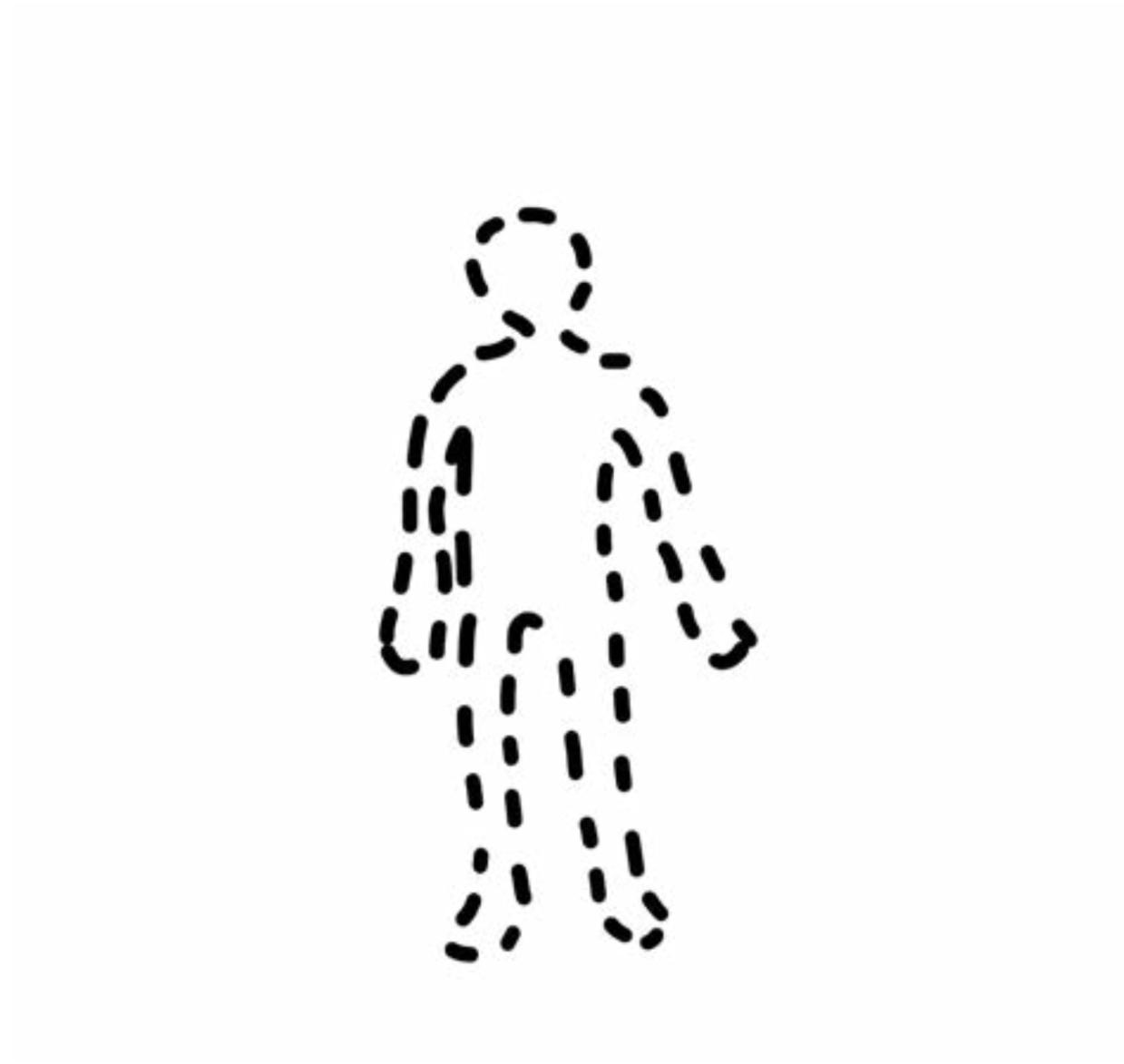
Light Shelf, Douglass hard wood
painted white

Metaglass aluminium fixed win-
dow frame with double glazed
windows

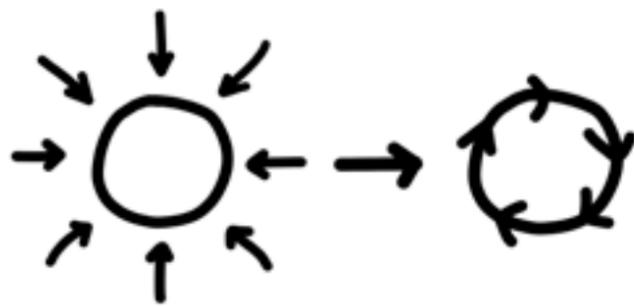
15mm timber floor boards
53mm Screed with UFH Heating pipes
Water Vapour Barrier
27 mm sound impact insulation
30mm infill bonded
15mm OSB board
200mm concrete structures (exsiting)
50mm cavity insulation
50mm cavity for installiations / ventilla-
tion
5mm fogged corrugated pvc pan-
els (750x1450mm) suspended using
spring clips



13mm Gypsum plasterboard
200mm Existing concrete
120mm Gutex Durio insulation
with 50mm timber battens
900mm spacing
Rain Screen
30mm ventilated cavity
2754x1200mm Plywood panels
fastened with riveting system







Thank You!