Olv Klijn
Anne Kockelkorn
ECOLOGY OF
INCLUSION
AR3AD100

SECOND CHANCES

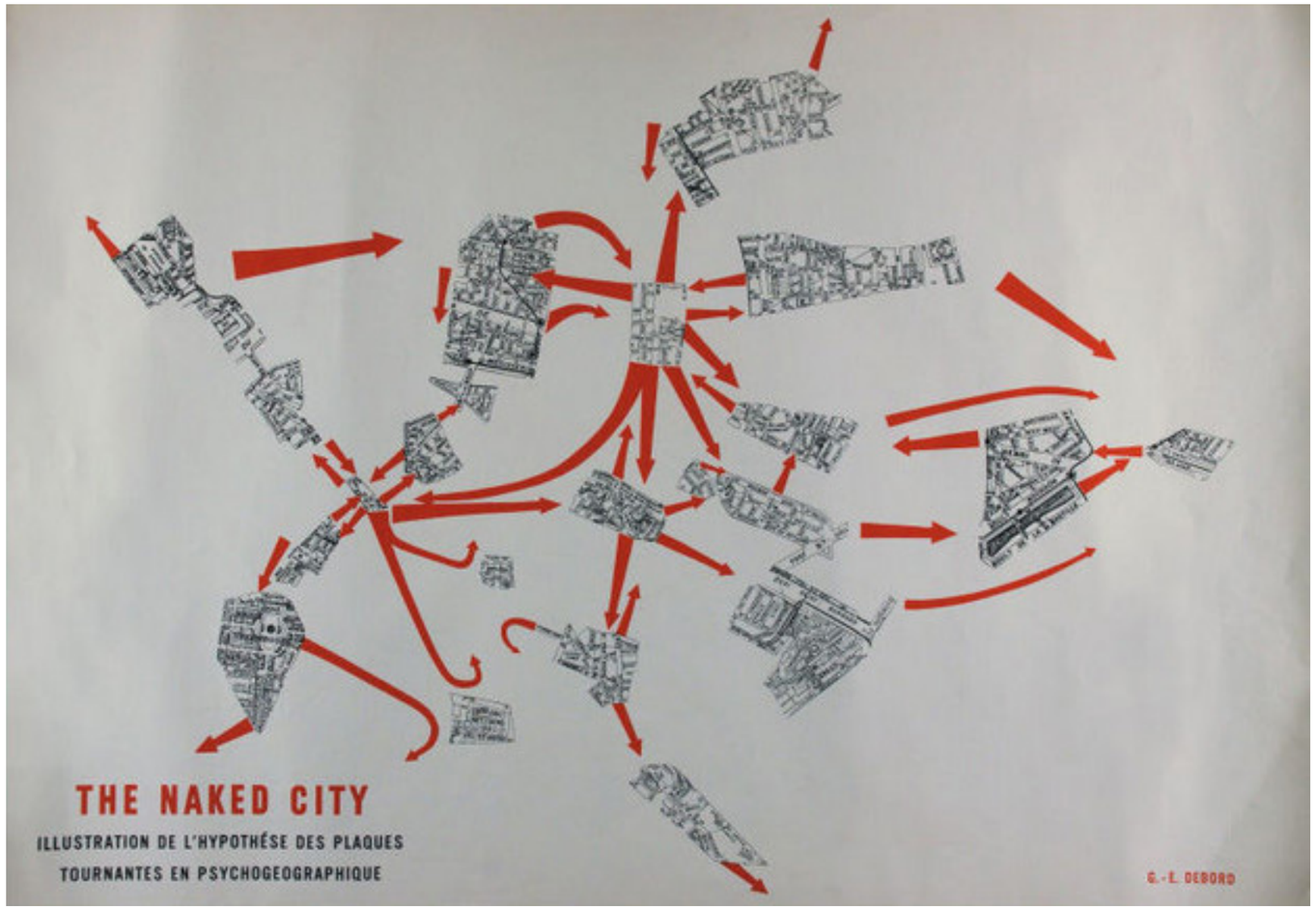
DWELLINGS
SOCIAL AND MATERIAL
REINTEGRATION

P4 PRESENTATION

Midas Zacharias Hoezen
4493719
17-05-2022

“ If cities remain key to solving the challenges of an ever-growing world population, then architects need a holistic understanding of dwelling as a social practice and of the city as an **ecology**.”

Ecology of Inclusion Studio Brief, p.6



Guy Debord and Asger Jorn’s The Naked City (1957)

SOCIETAL ISSUES

- marginalization of socially disadvantaged people
- current governmental social programs (housing & integration) cannot provide sufficient aid

FOCAL TRENDS

- shift in labour demand, going from low educated jobs to more specialization
- increase in solo dwellers
- adaptation of existing post-war gallery housing blocks to current needs

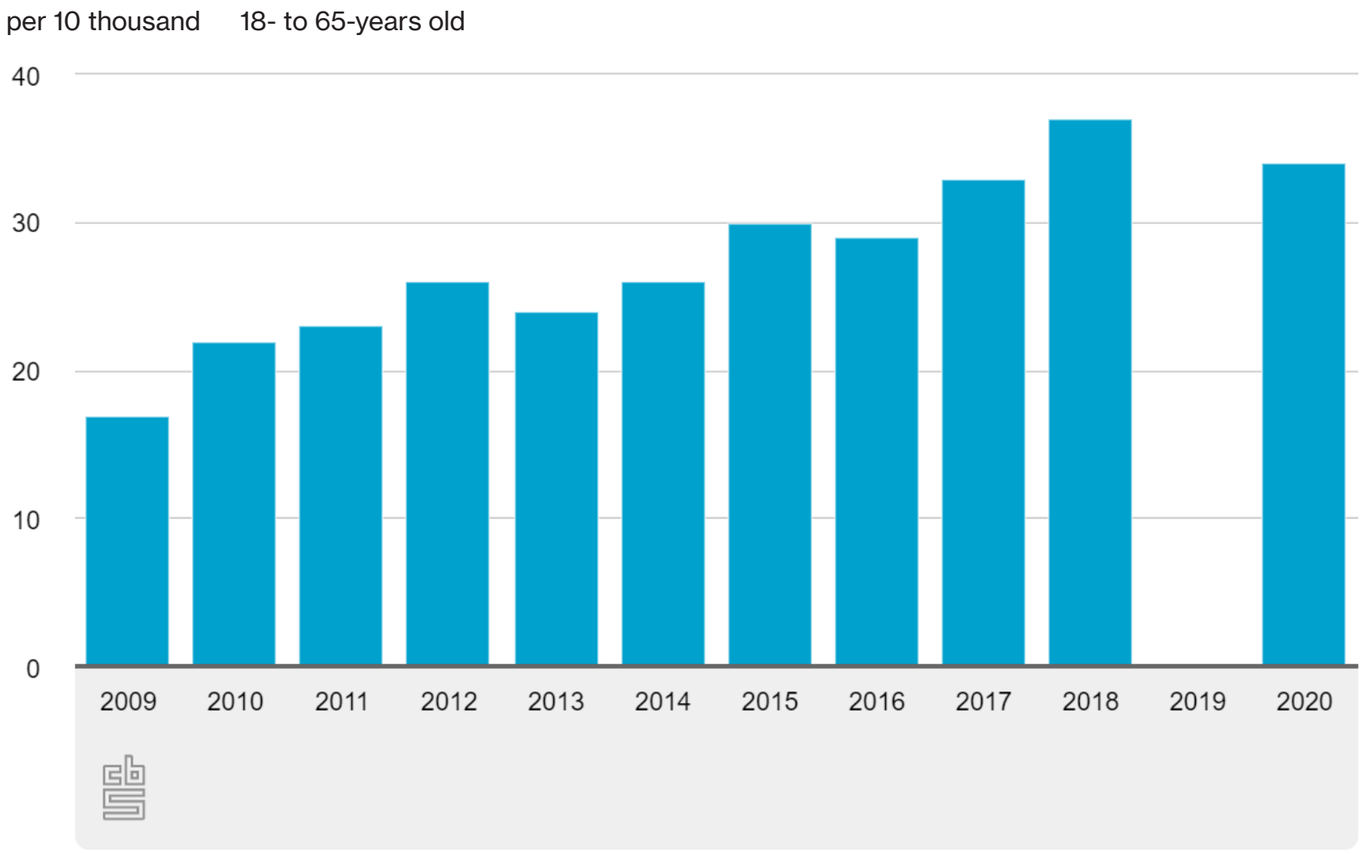
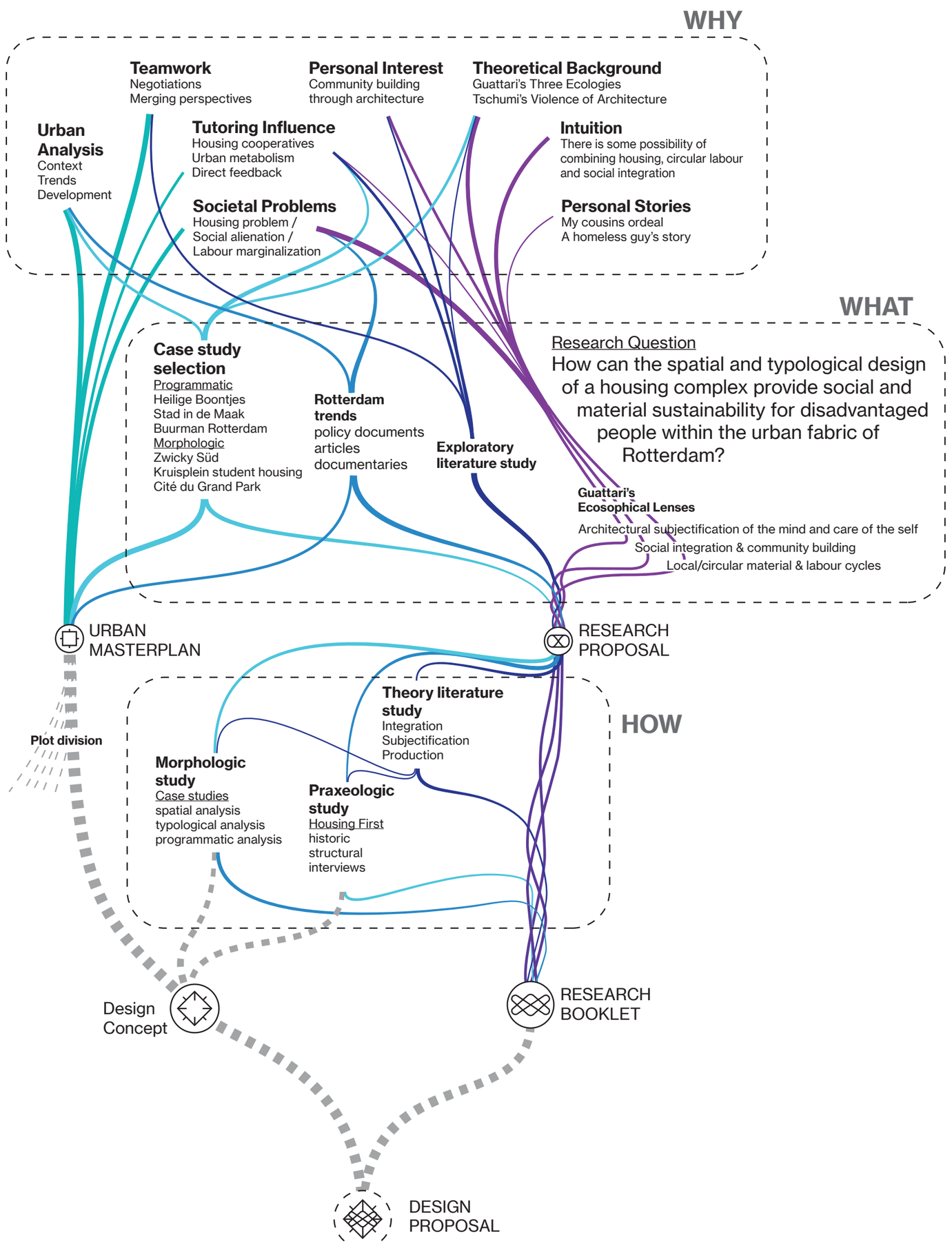
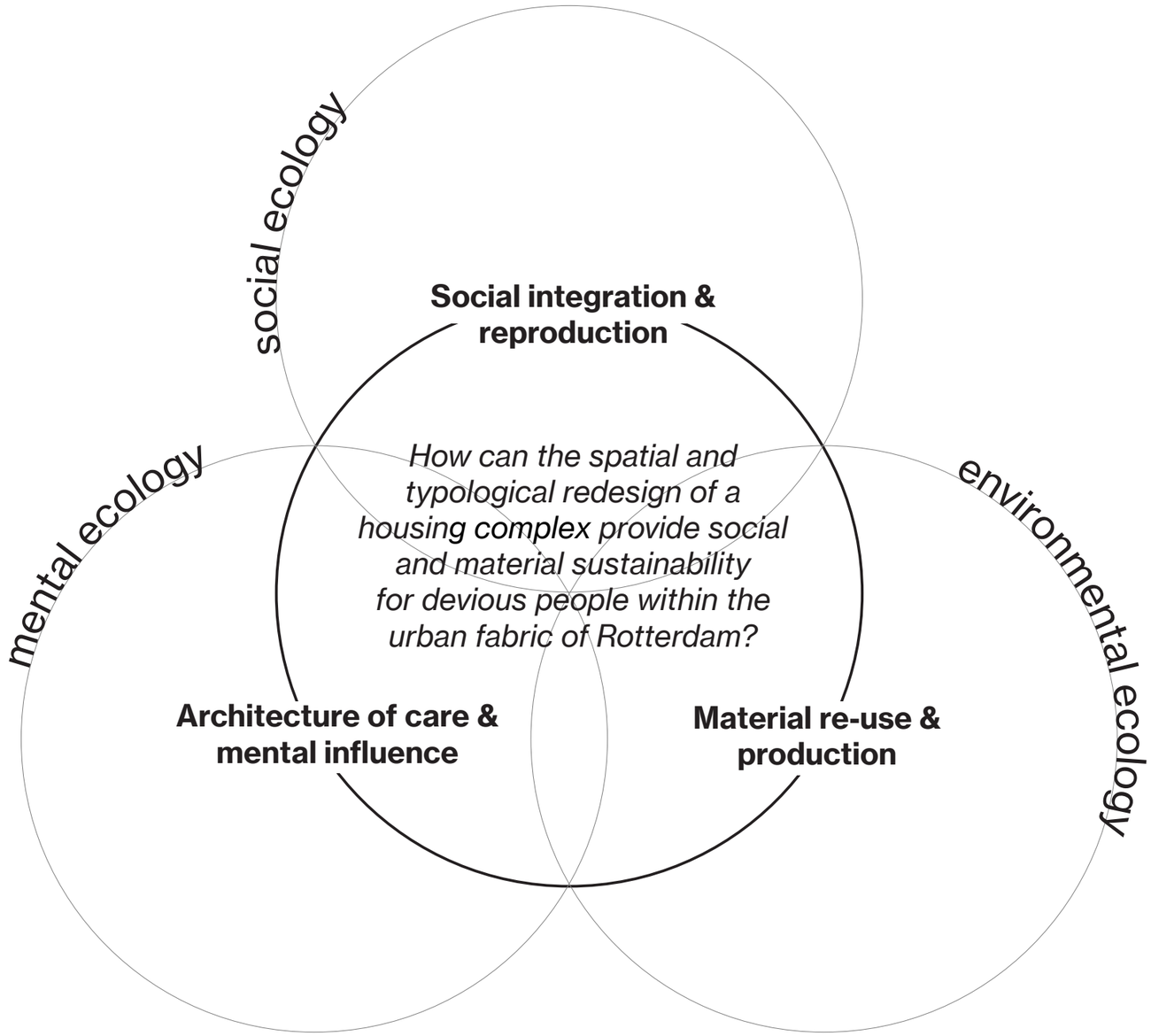


figure ?. **CBS statistic, rise of hommelessness in the Netherlands.** from https://www.cbs.nl/nl-nl/nieuws/2021/13/stijging-van-het-aantal-daklozen-tot-stilstand-gekomen

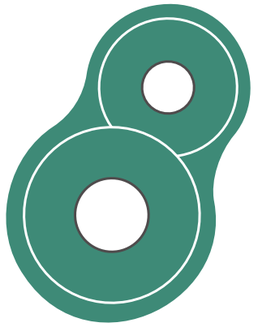

WHY
Teamwork
Negotiations
Merging perspectives
Personal Interest
Community building
through architecture
Theoretical Background
Guattari's Three Ecologies
Tschumi's Violence of Architecture
Urban Analysis
Context
Trends
Development
Tutoring Influence
Housing cooperatives
Urban metabolism
Direct feedback
Intuition
There is some possibility of combining housing, circular labour and social integration
Societal Problems
Housing problem /
Social alienation /
Labour marginalization
Personal Stories
My cousins ordeal
A homeless guy's story
WHAT
Case study selection
Programmatic
Heilige Boontjes
Stad in de Maak
Buurman Rotterdam
Morphologic
Zwicky Süd
Kruisplein student housing
Cité du Grand Park
Rotterdam trends
policy documents
articles
documentaries
Exploratory literature study
Research Question
How can the spatial and typological design of a housing complex provide social and material sustainability for disadvantaged people within the urban fabric of Rotterdam?
Guattari's Ecosophical Lenses
Architectural subjectification of the mind and care of the self
Social integration & community building
Local/circular material & labour cycles
URBAN MASTERPLAN
RESEARCH PROPOSAL
HOW
Theory literature study
Integration
Subjectification
Production
Plot division
Morphologic study
Case studies
spatial analysis
typological analysis
programmatic analysis
Praxeologic study
Housing First
historic
structural
interviews
Design Concept
RESEARCH BOOKLET
DESIGN PROPOSAL

“Here we are talking about a reconstruction of social and individual practices which I shall classify under three complementary headings, all of which come under the ethico-aesthetic aegis of an ecosophy: social ecology, mental ecology and environmental ecology.”

Félix Guattari, Three Ecologies, *p.41*



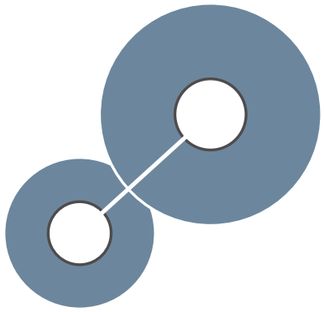
INTEGRATION



Which public communal and public functions can aid in social reproduction between the residents and how can they be included in a residential complex?

How can existing post-war building structures be re-used in a socially differentiated and materially sustainable way?

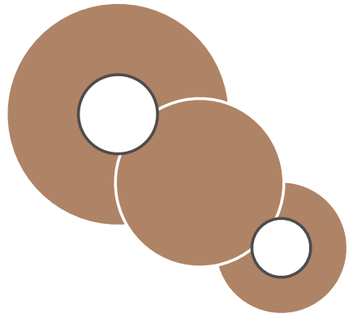
SUBJECTIFICATION



How can circulation space be designed so as to be able to be appropriated by its residents to be shown publicly with regard to mass housing?

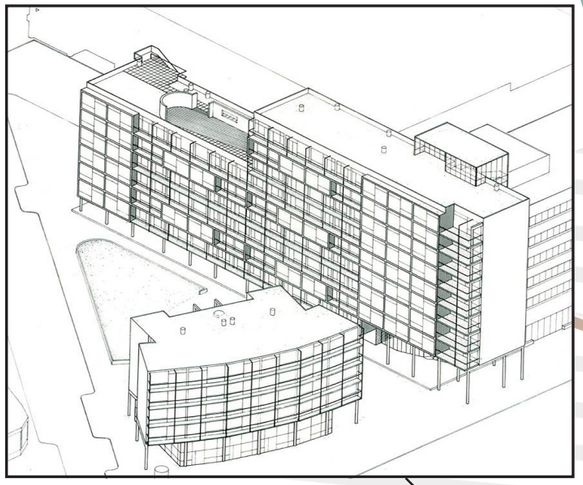
What spatial strategies can be used to include disadvantaged people into a new social environment and how does it take into account the user’s needs for privacy?

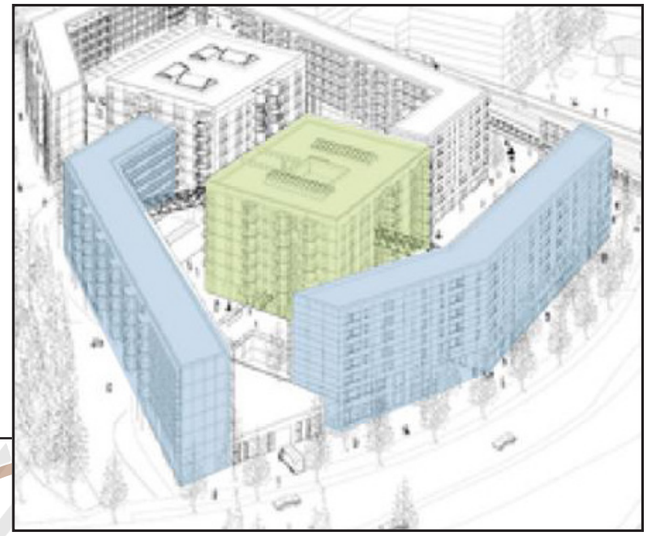
PRODUCTION



What are the logistics of manufacturing workspaces and how does it combine with the rhythms of residential life?

How can productive functions be integrated into a residential environment to provide creative-productive opportunities?





ENVIRONMENTAL

Architecture of Care

Zwicky Süd

Spatial Subjectivity

Kruis-plein

R'dam start-ups

Re-Industrialization

MENTAL

Social Reproduction

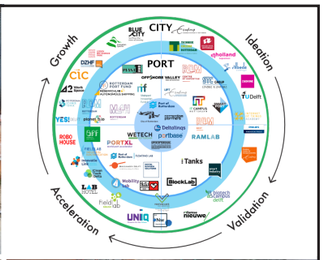
Re-Use

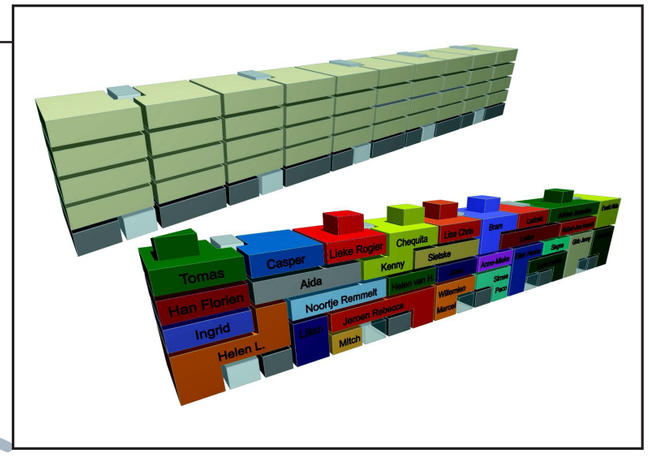
Housing First

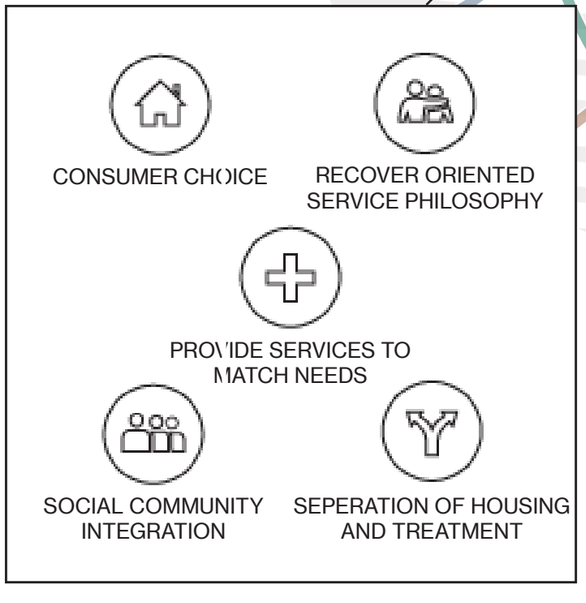
Klaren-straat

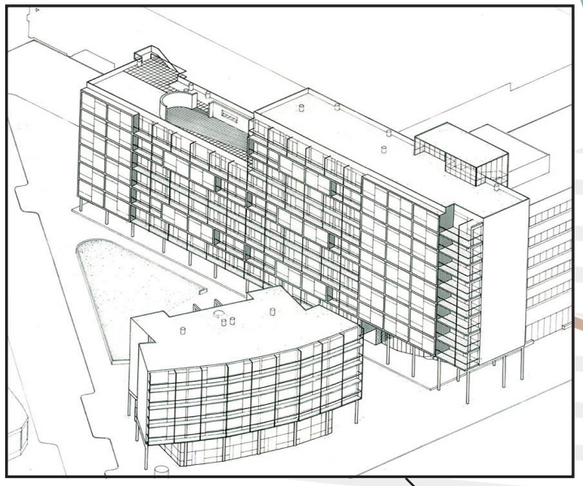
Appropriation

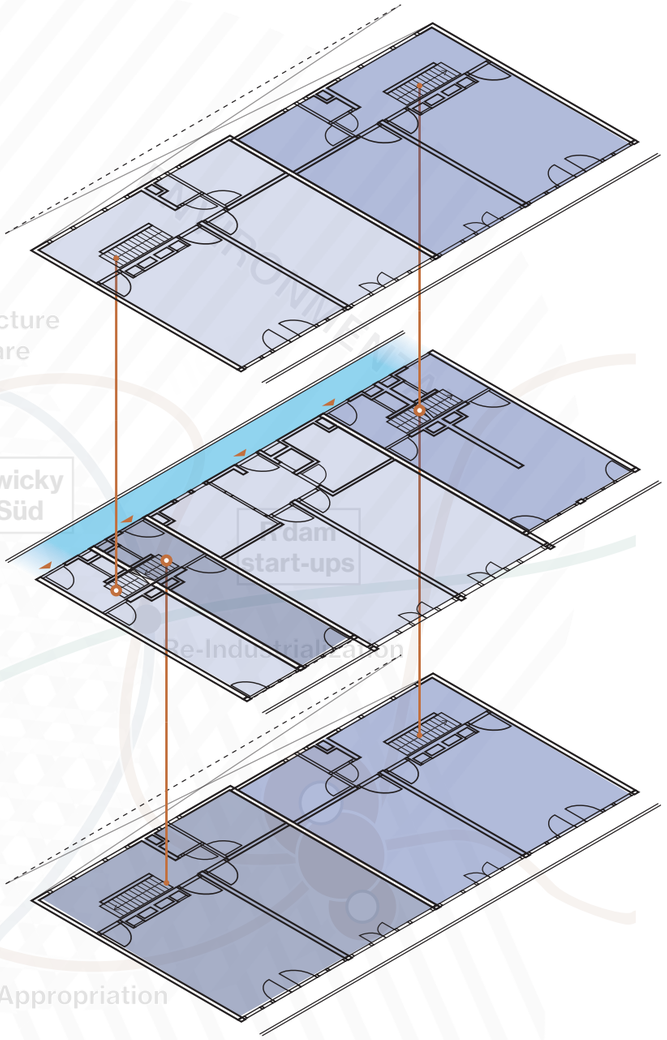
SOCIAL

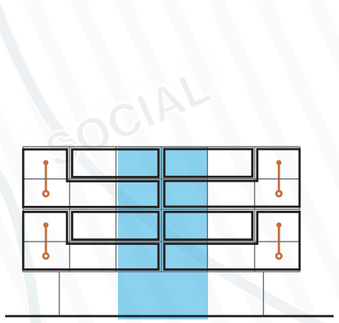


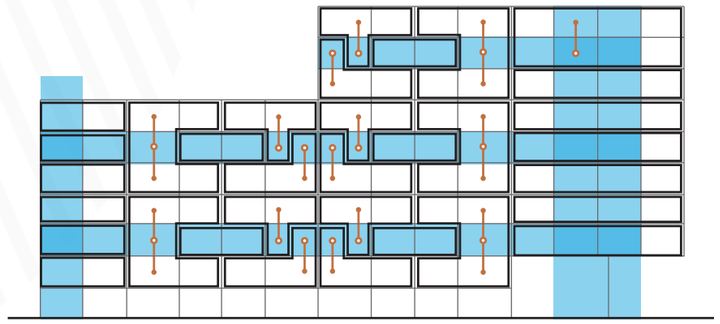












Spatial Subjectivity

Kruis-plein

Social Reproduction

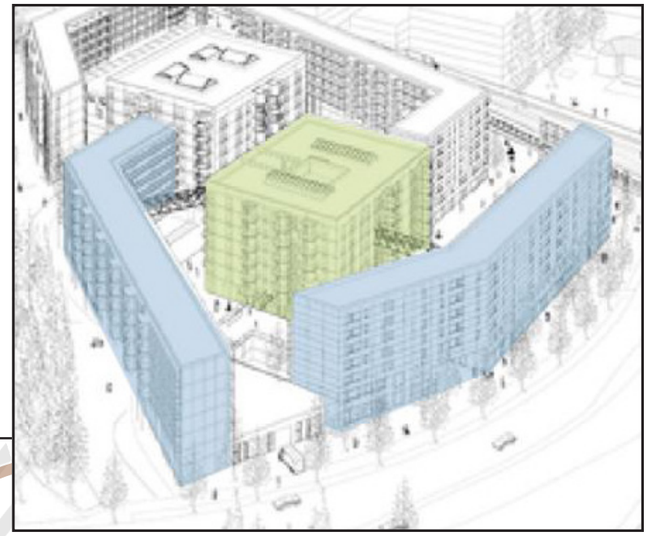
Re-Use

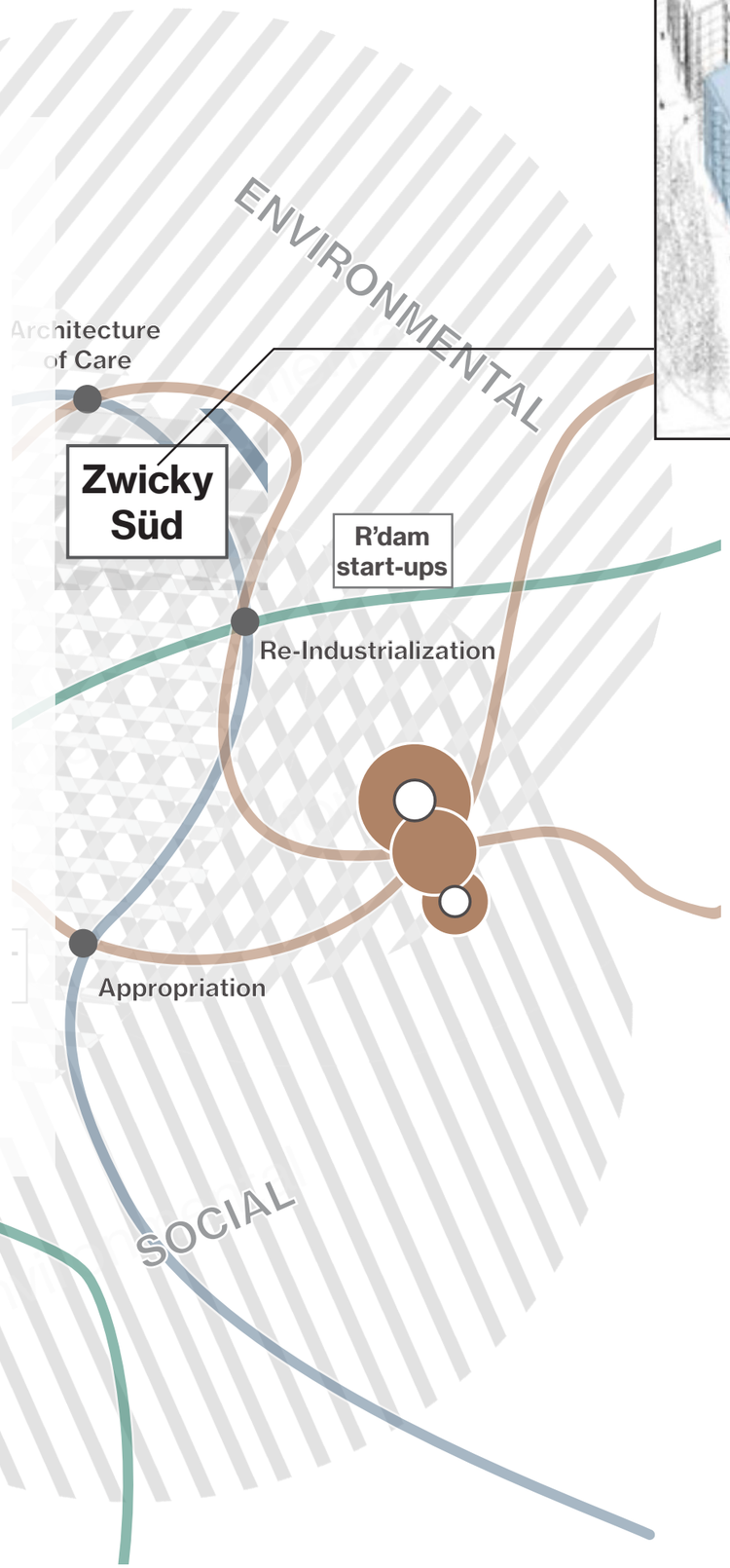
Housing First

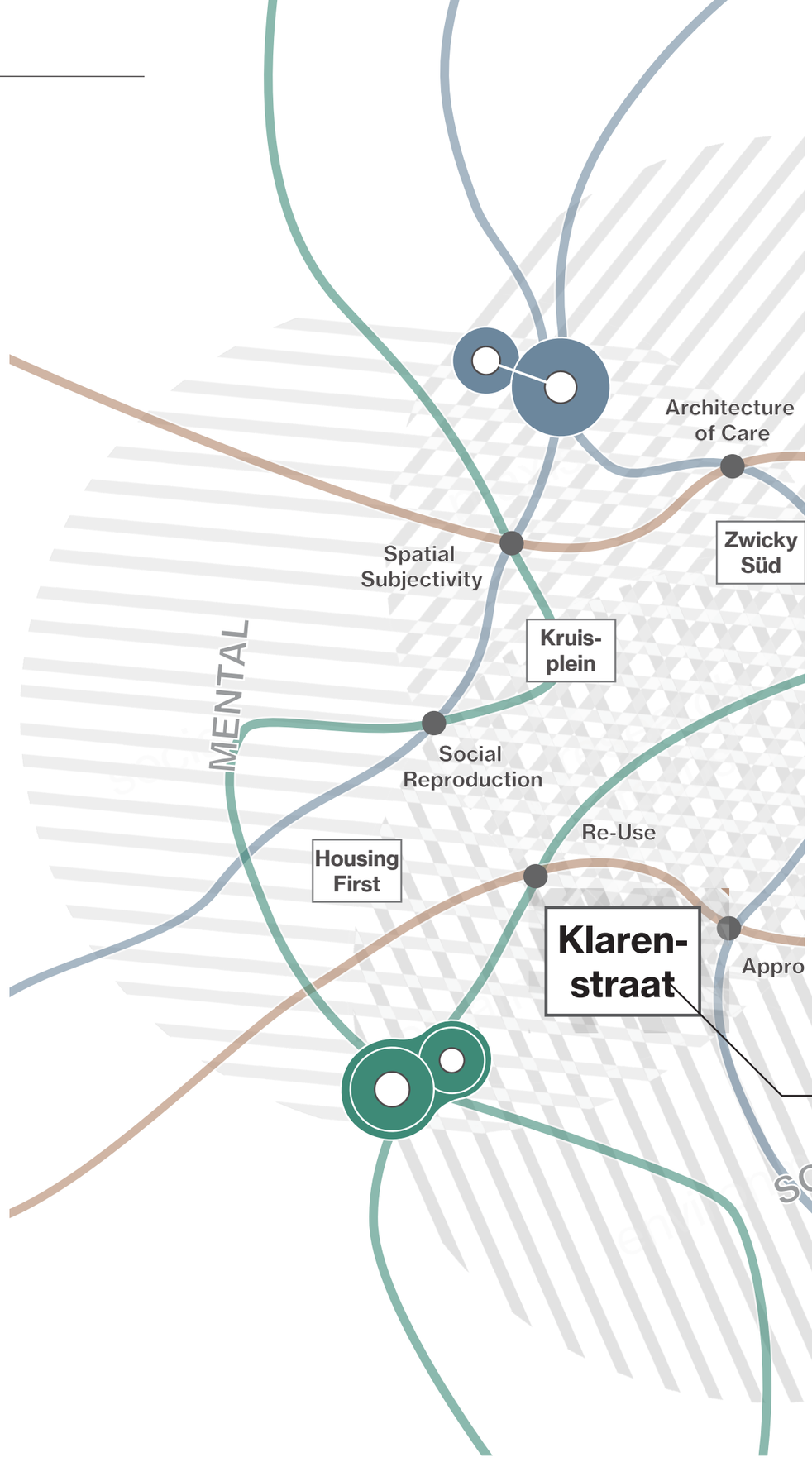
Klaren-straat

Appropriation

Quartierverein
education
ZwiBack
offices
shops
communal room
hotel
Spiel and Sport Raum
Legend:
housing
commerce/ services
communal facilities
maintainance




ENVIRONMENTAL
Architecture of Care
Zwicky Süd
R'dam start-ups
Re-Industrialization
Appropriation
SOCIAL


Architecture of Care
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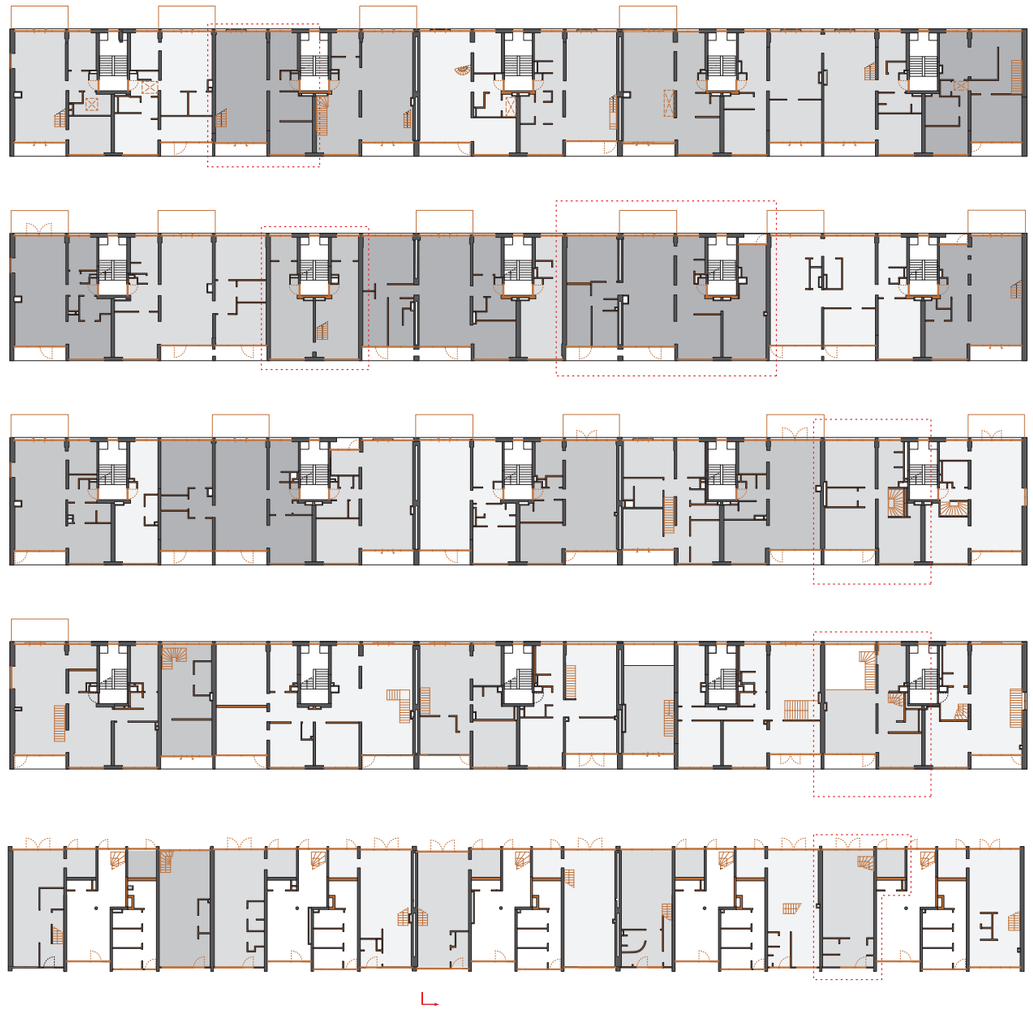
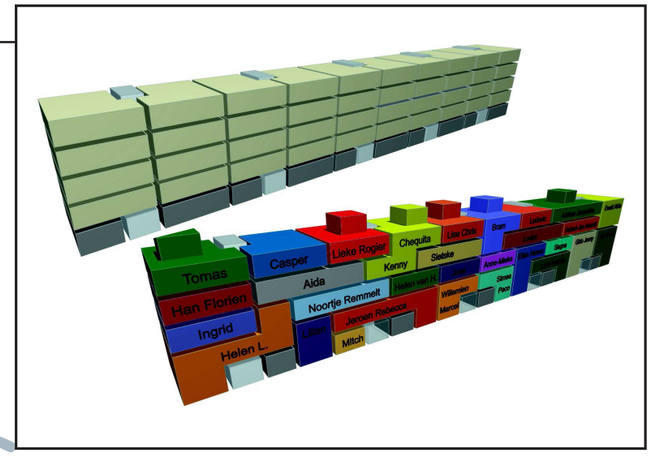
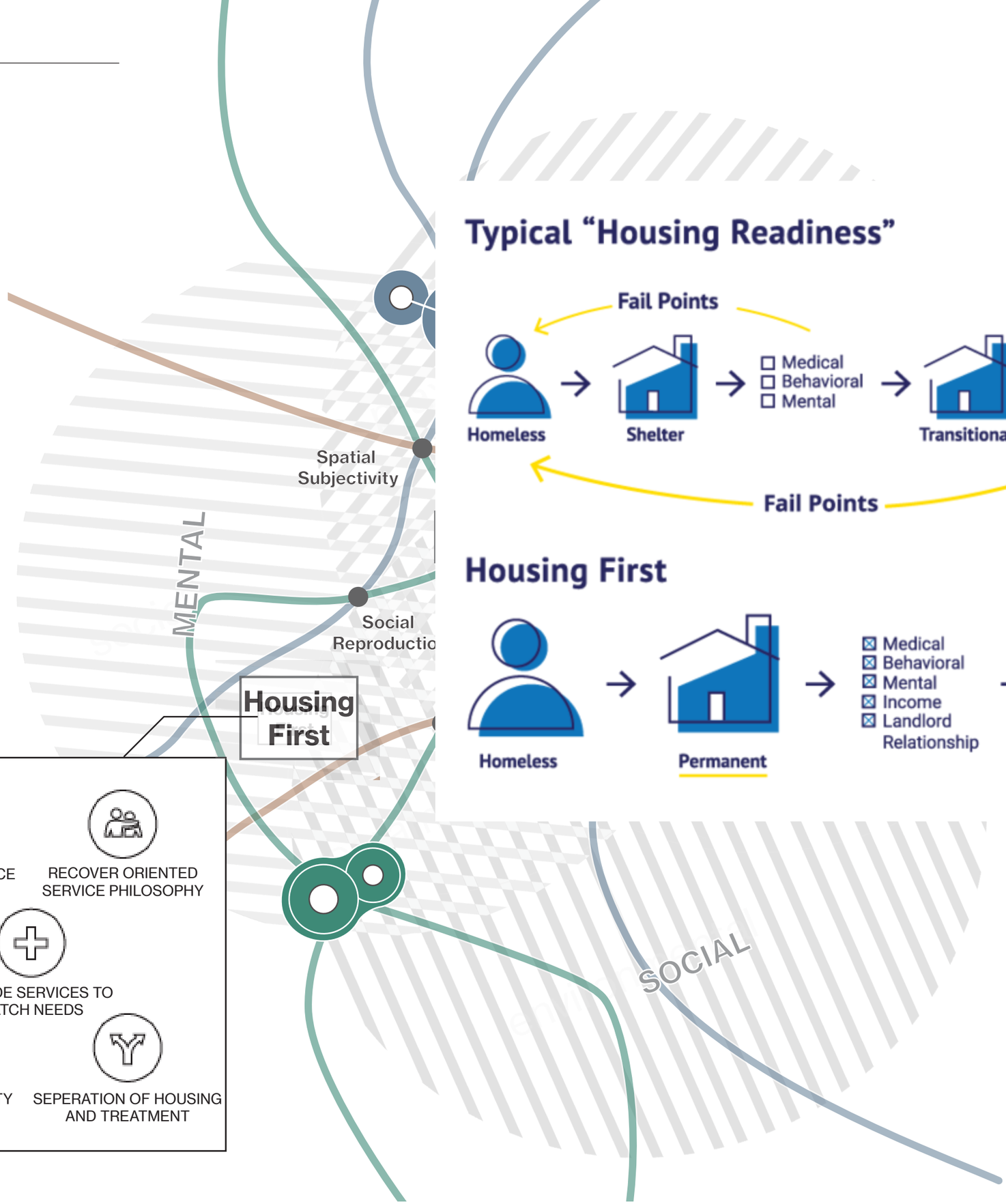
Appro
SOCIAL

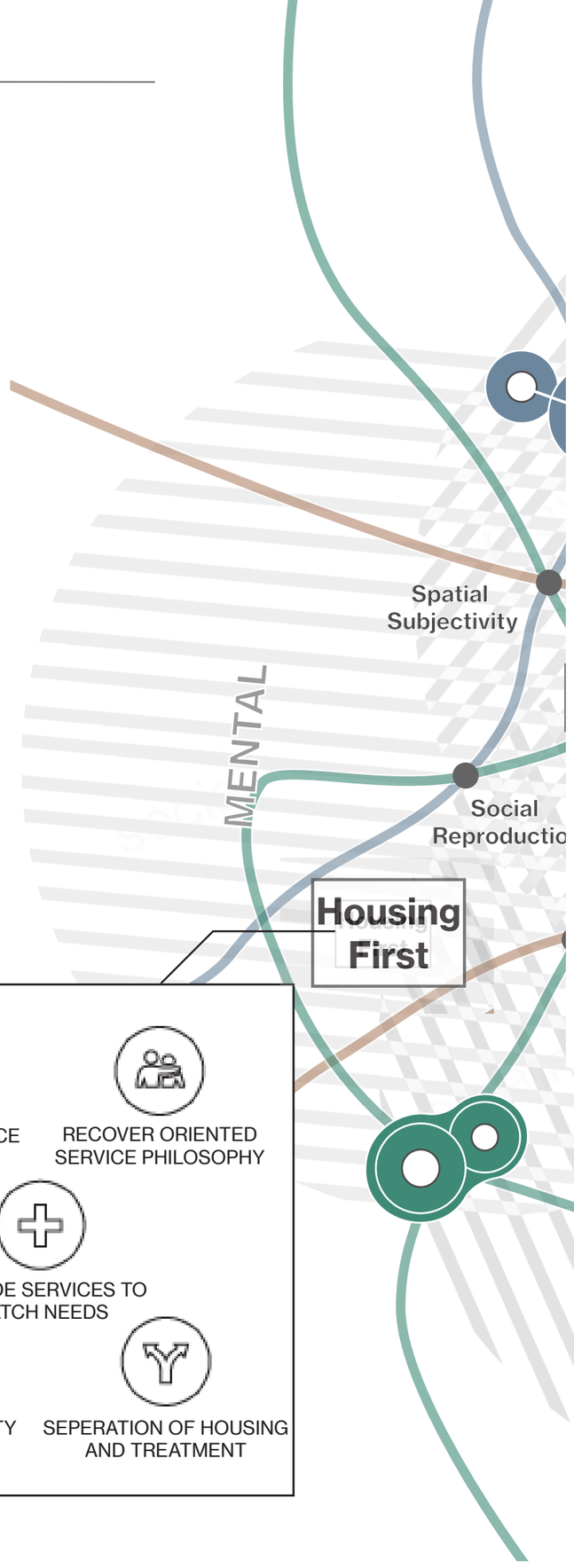



Tomas
Casper
Lieke Roger
Chequita
Like Chris
Kenny
Sietske
Alda
Noortje Remmelt
Han Florien
Ingrid
Helen L.
Jeroen Rebecca
Mitch



Typical "Housing Readiness"

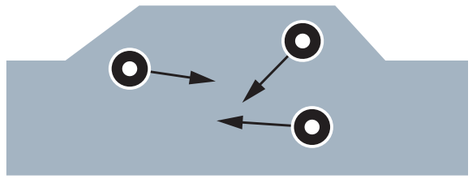
Housing First



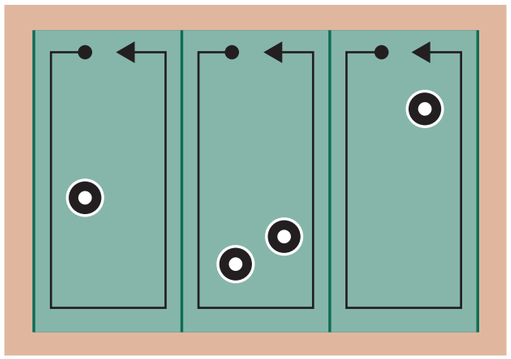
NOS NIEUWS · POLITIEK · DO 2 JUNI, 09:00

Kabinet hoopt dakloze te helpen met echt 'huis', geen stretcher

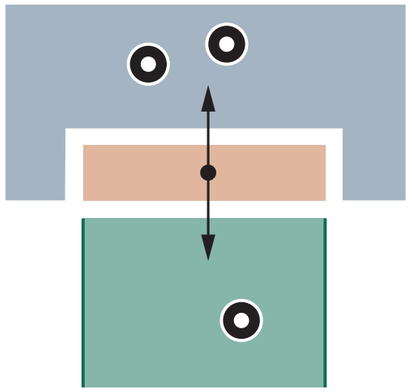
circulation as space of encounter



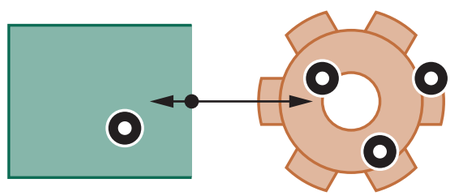
social and material re-use



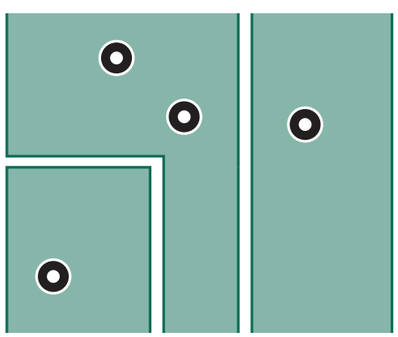
appropriability



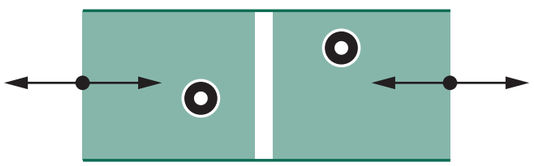
interaction with simple production

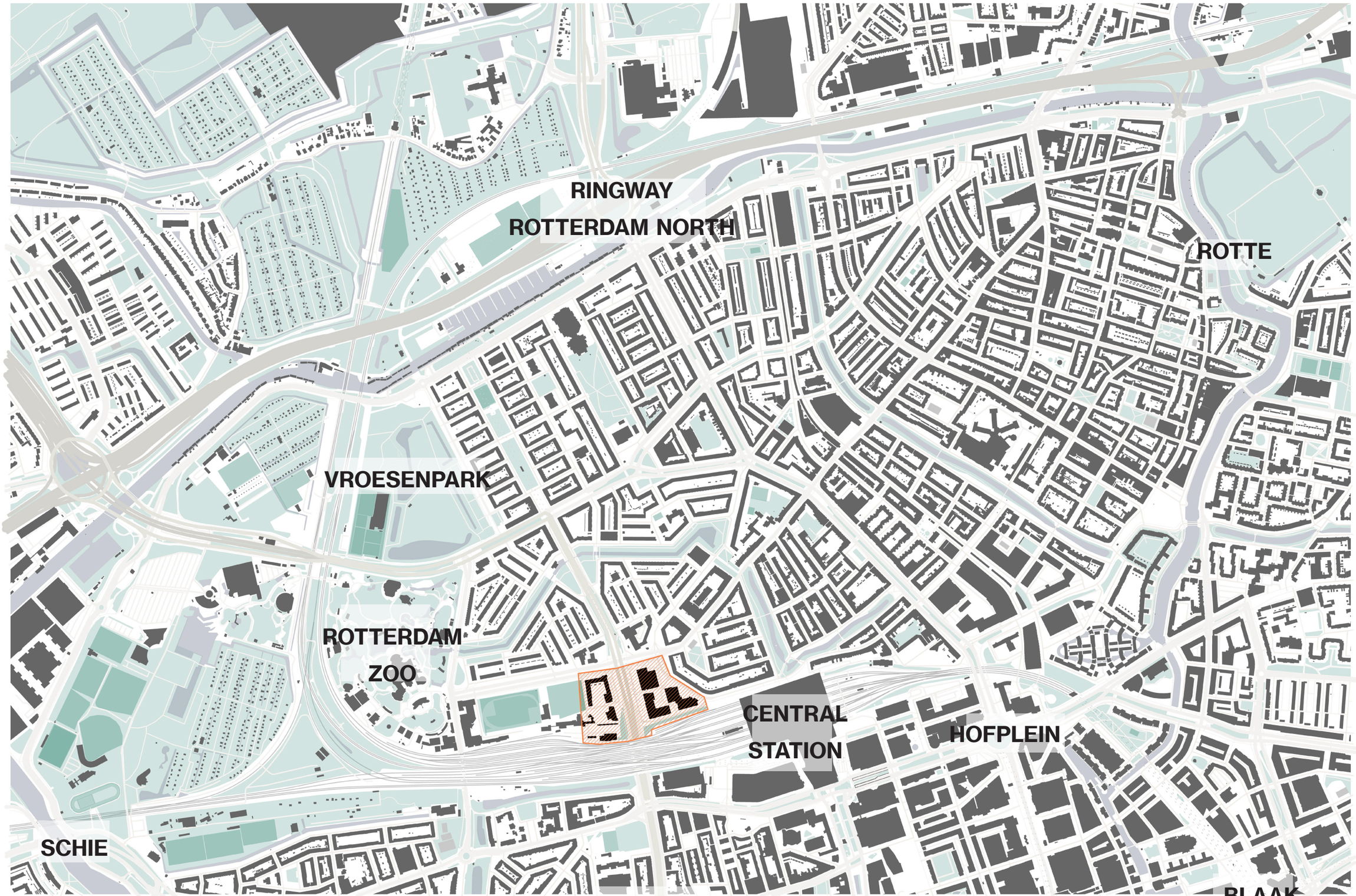


dwelling differentiation

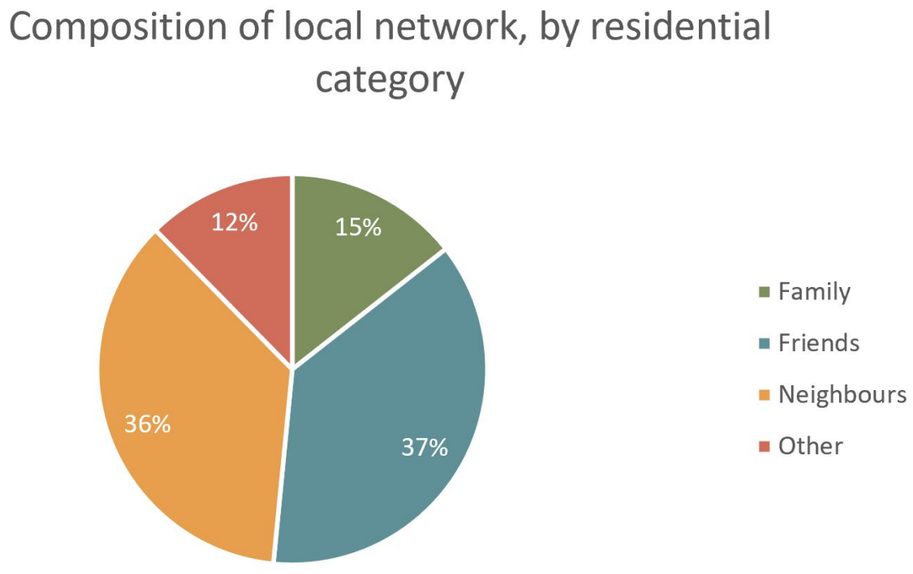


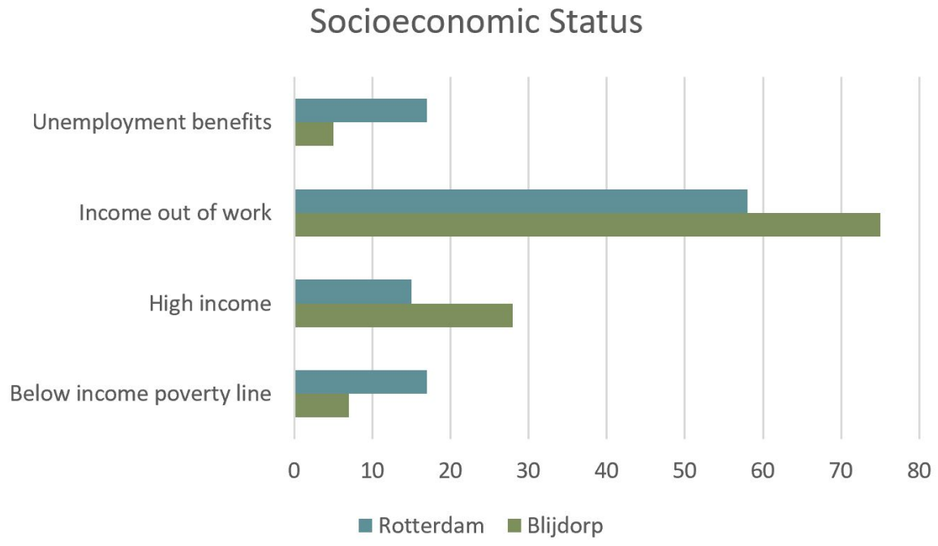
multi-directionality of dwellings

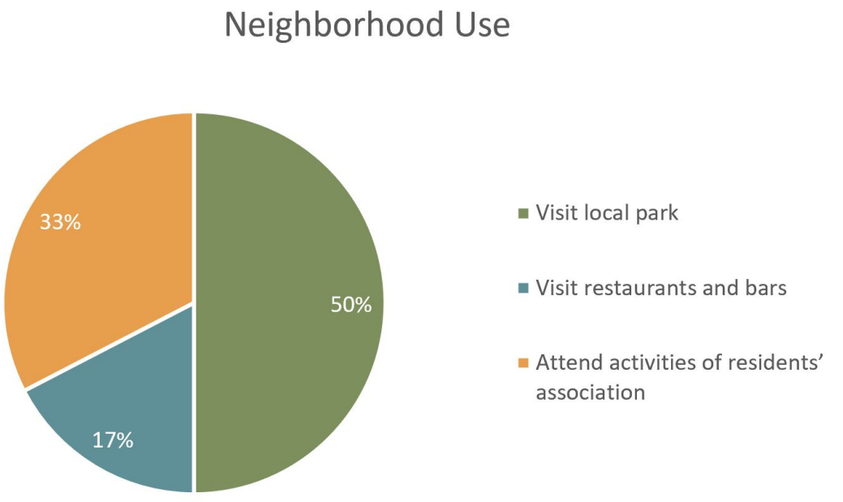


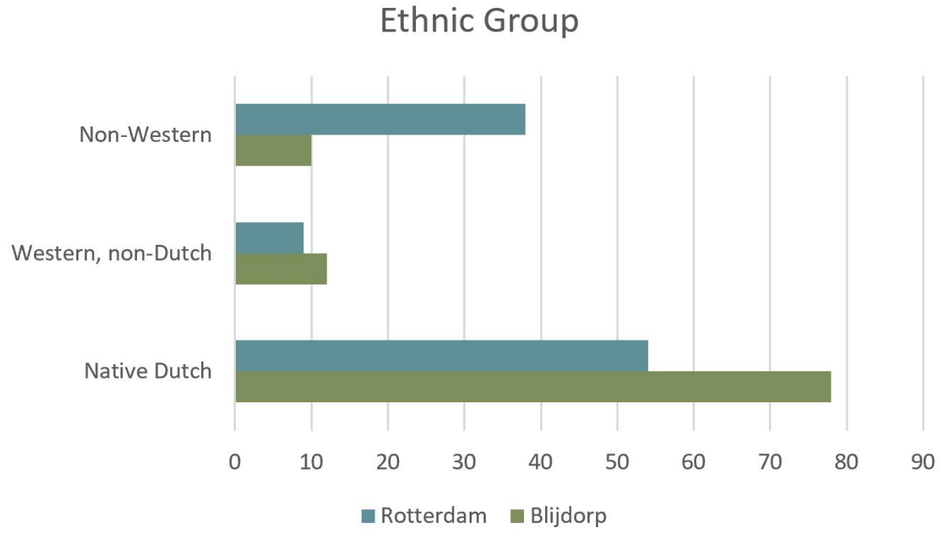


1.10000 Rotterdam north

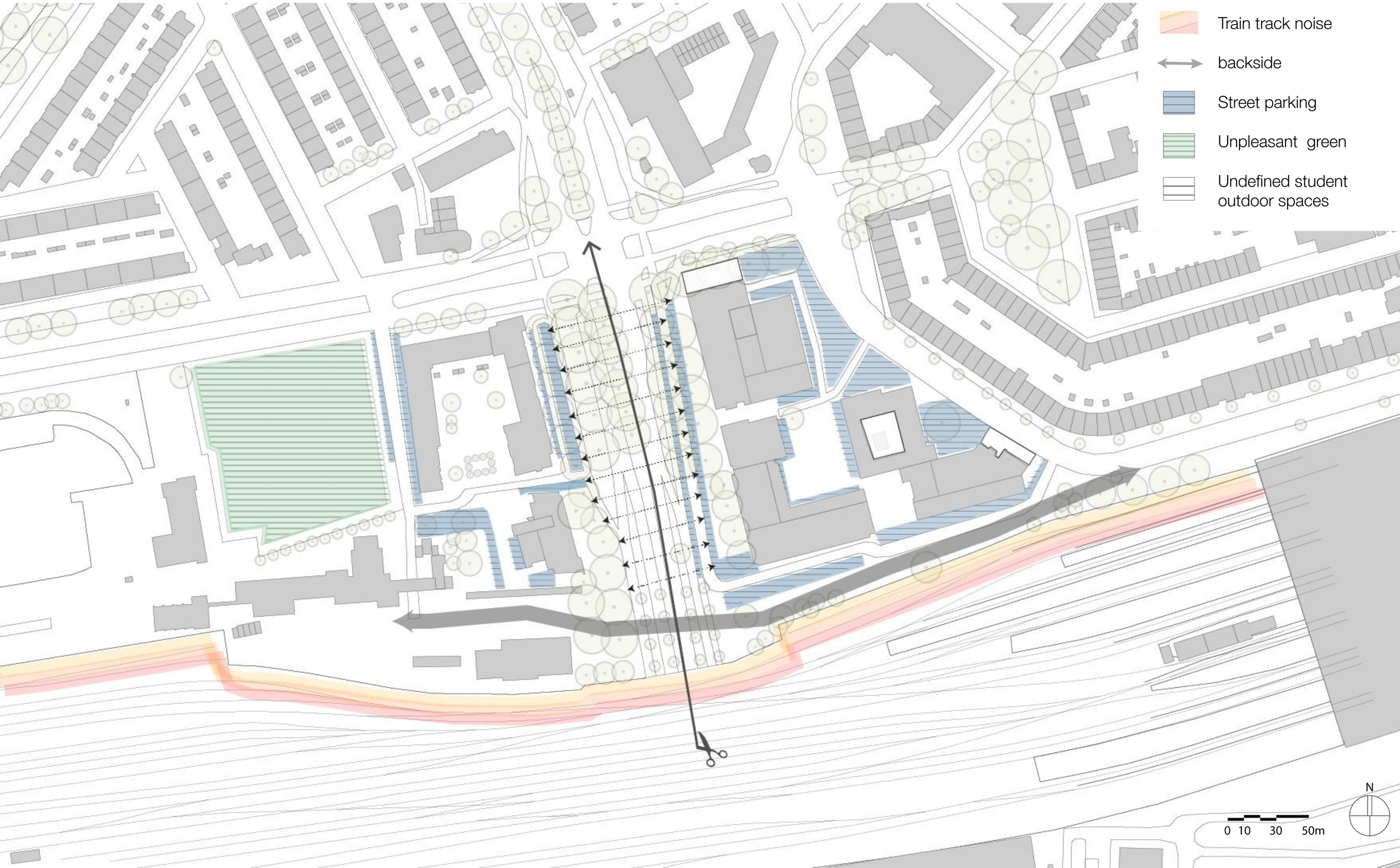


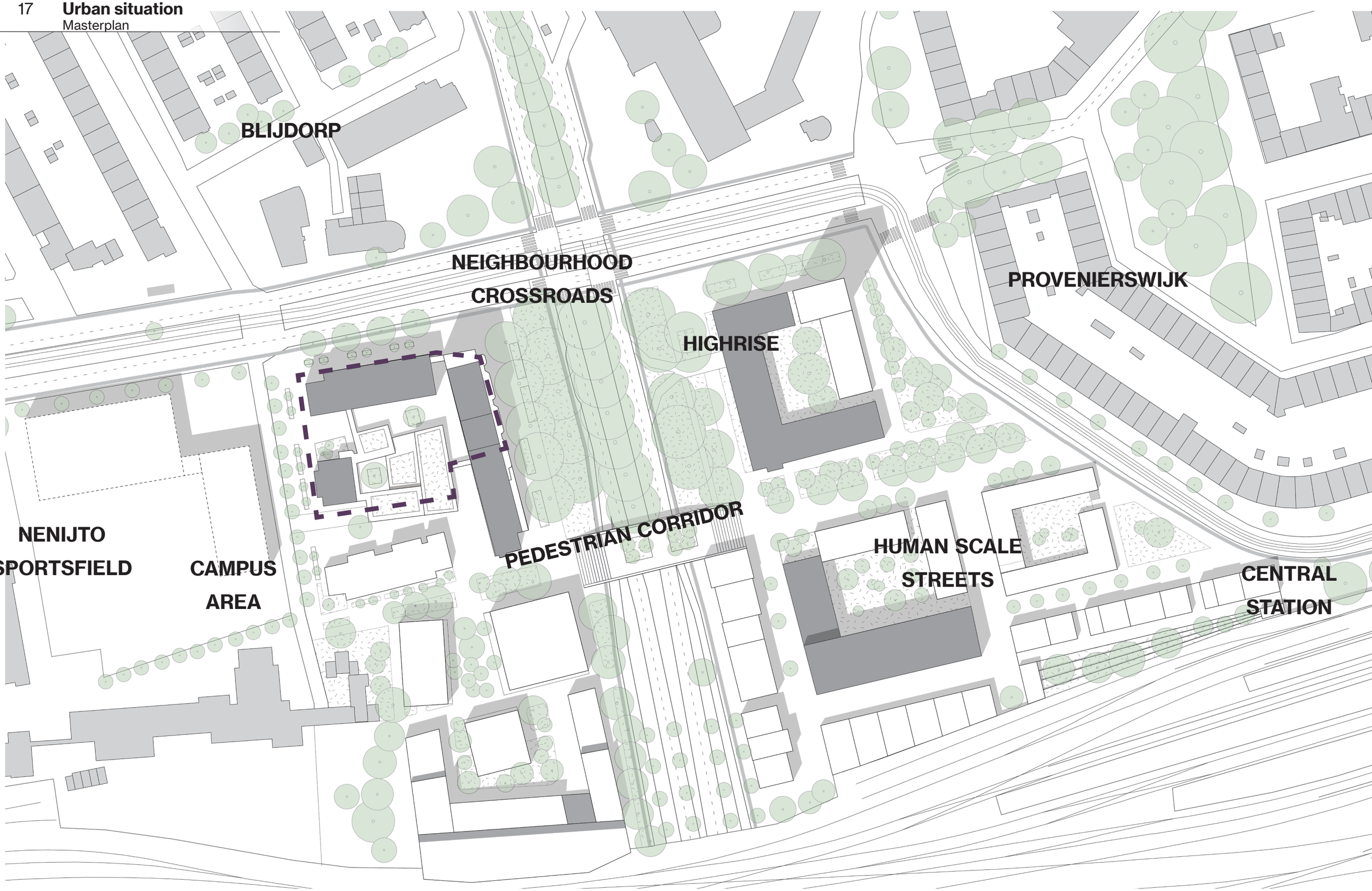






Neighbourhood demographics
from Van Eijk, *Unequal Networks*


Legend
Site split in two
Wide fast traffic street
Train track noise
backside
Street parking
Unpleasant green
Undefined student outdoor spaces
N
0 10 30 50m



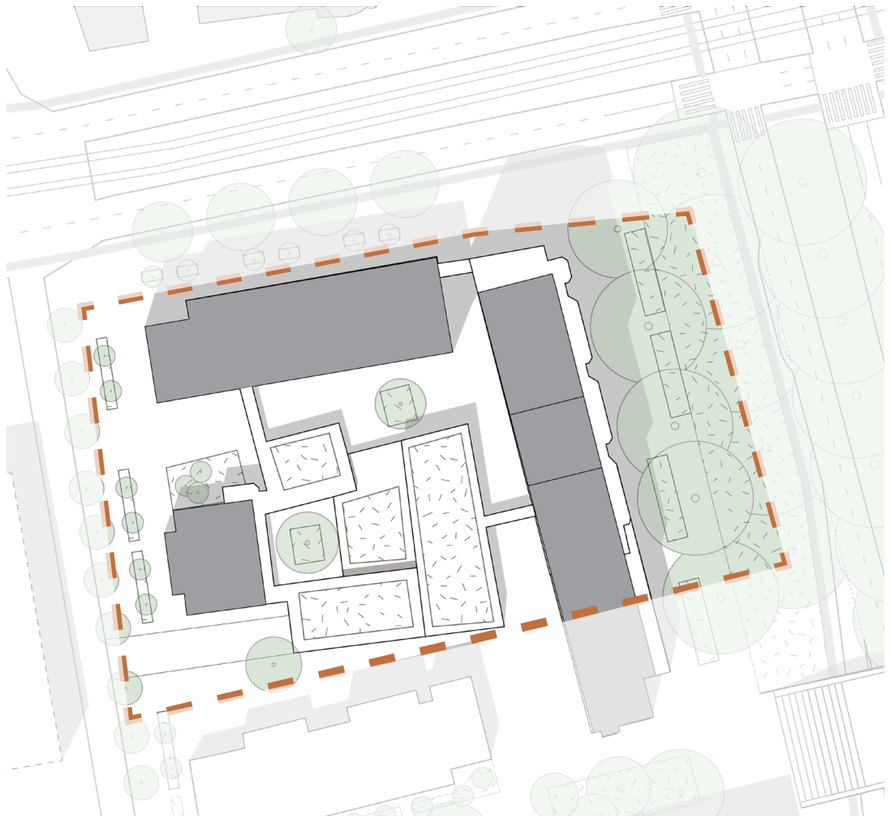
1.1000 urban masterplan

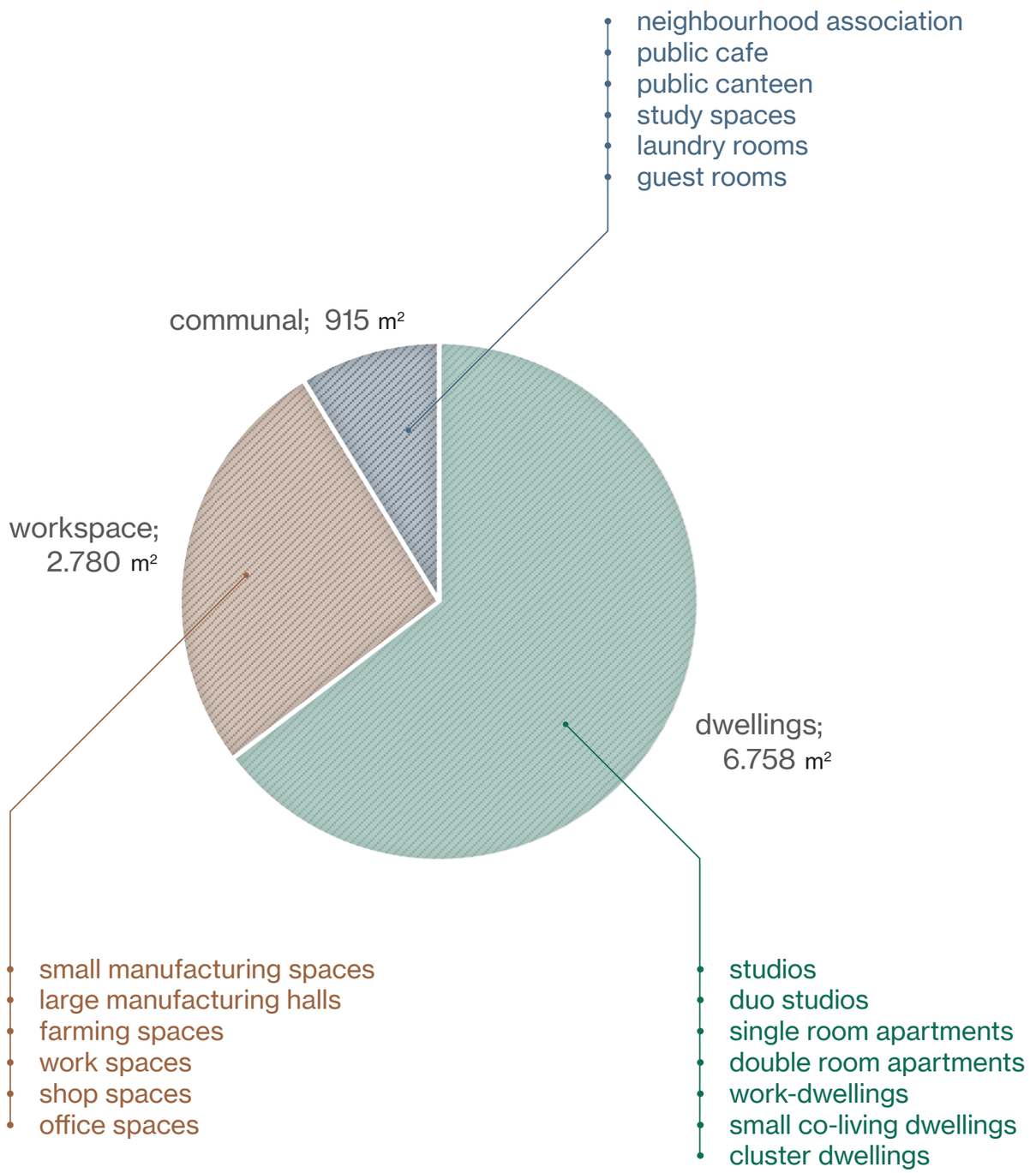
Total GFA:

10453 m²

FSI:

1,5





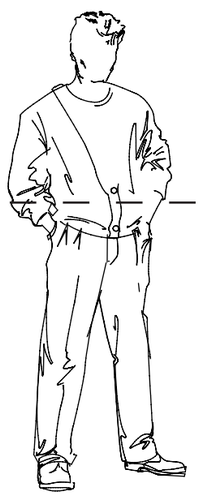
socially disadvantaged

- priority
- no income
- in need of positive social reproduction and a stable environment
- looking for a purpose / work

pet-owner prone to psychotic attacks

musician with a partner both former addicts

handyman who struggles with loneliness

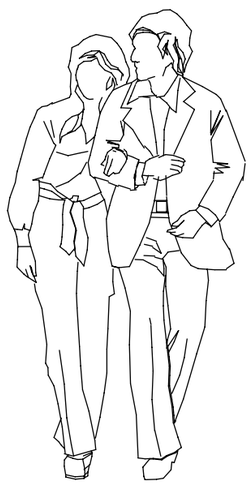


students

- temporary settlement
- low income
- in need of a studyspace

starters

- low capital
- looking for expansion
- in need of a workspace



collective dwellers

- unconventional
- varying in size and composition

Axonometry

North-East Orientation

0 2 4 10m

Axonometry

North-East Orientation

0 2 4 10m

Axonometry

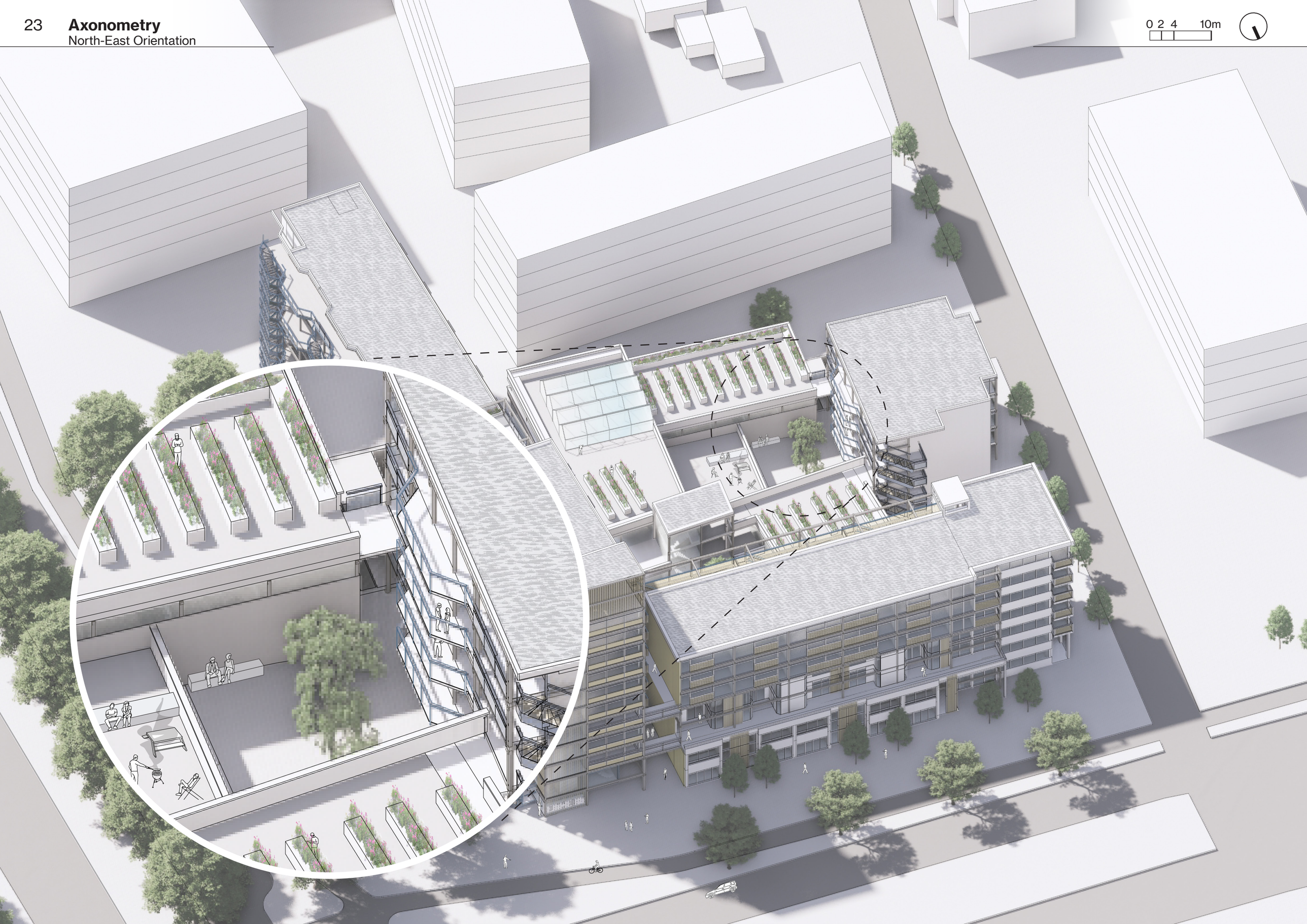
North-East Orientation

0 2 4 10m

Axonometry

North-East Orientation

0 2 4 10m



Axonometry

South-West Orientation

0 2 4 10m

Axonometry

South-West Orientation

0 2 4 10m

Axonometry

South-West Orientation

0 2 4 10m

Axonometry

South-West Orientation

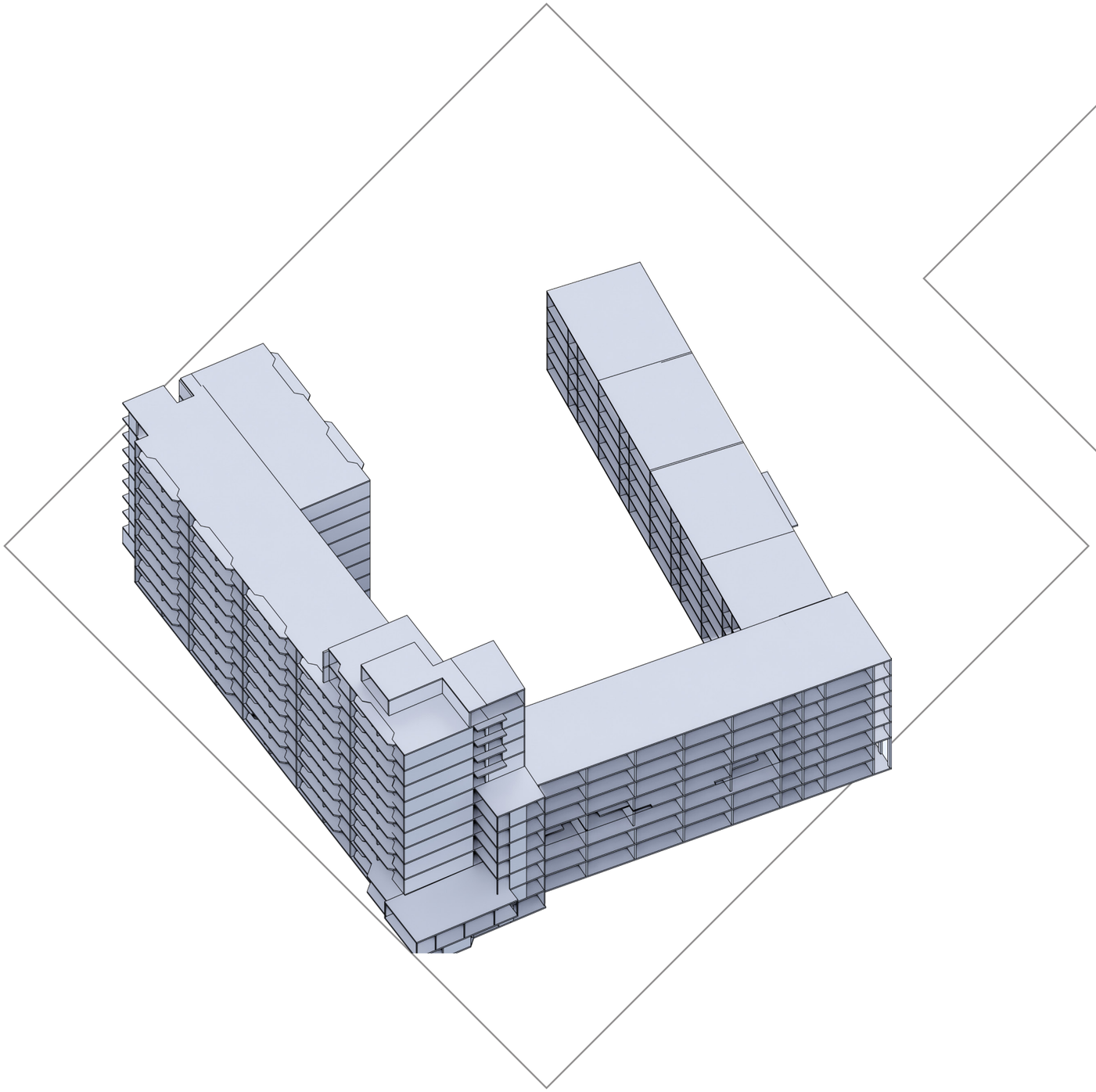
0 2 4 10m

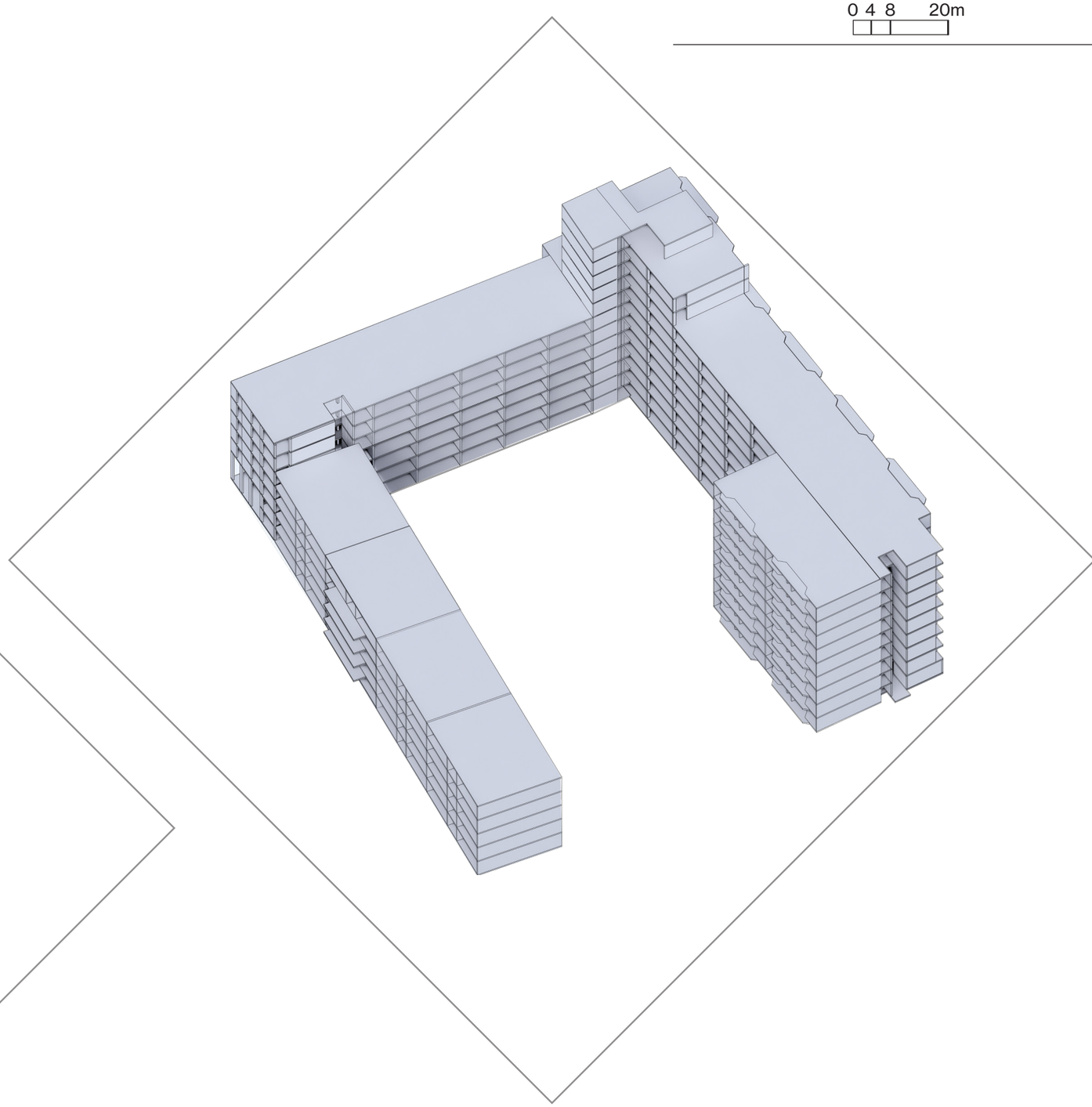
0 4 8 20m

Axonometry

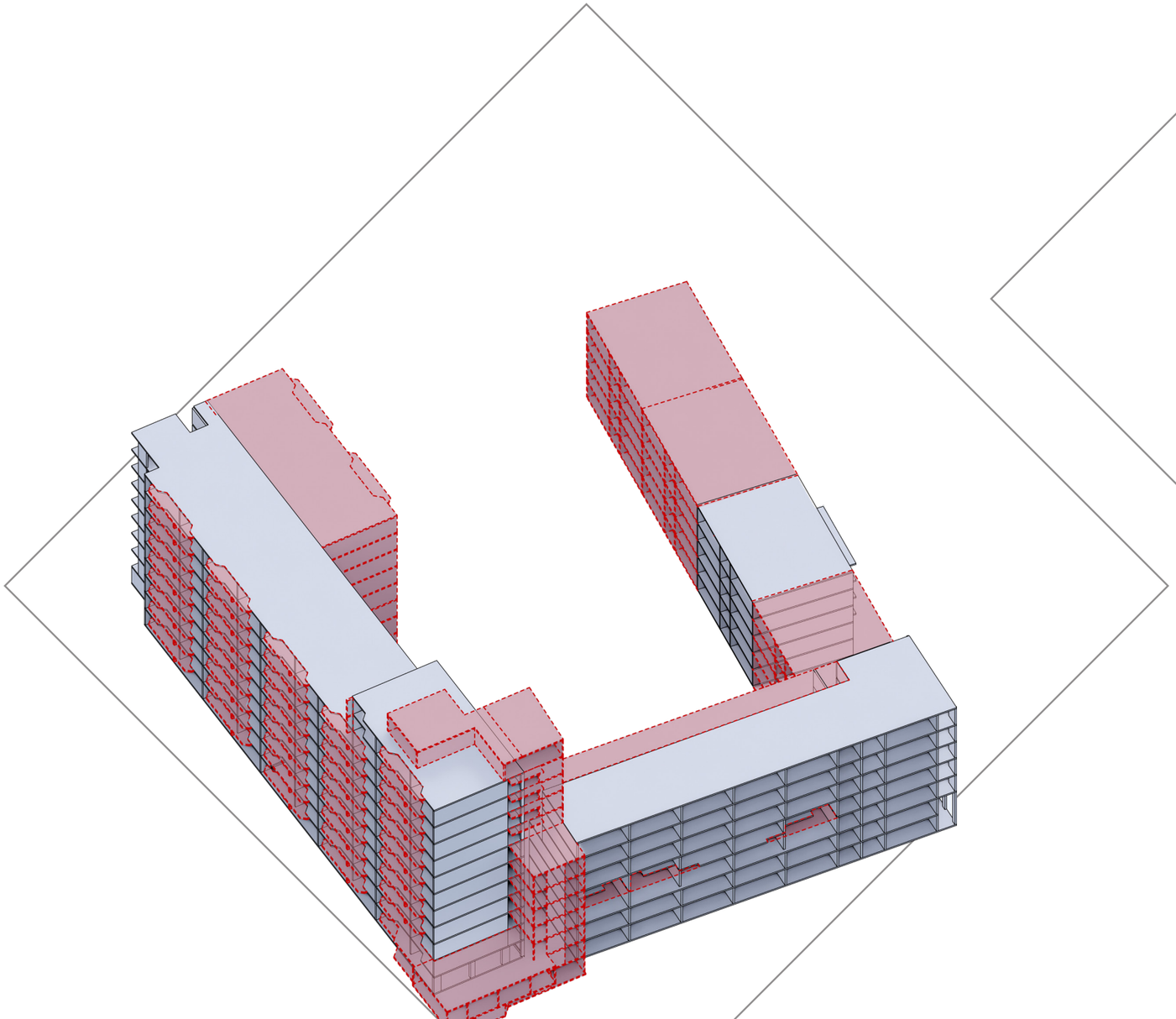
Existing bare structure

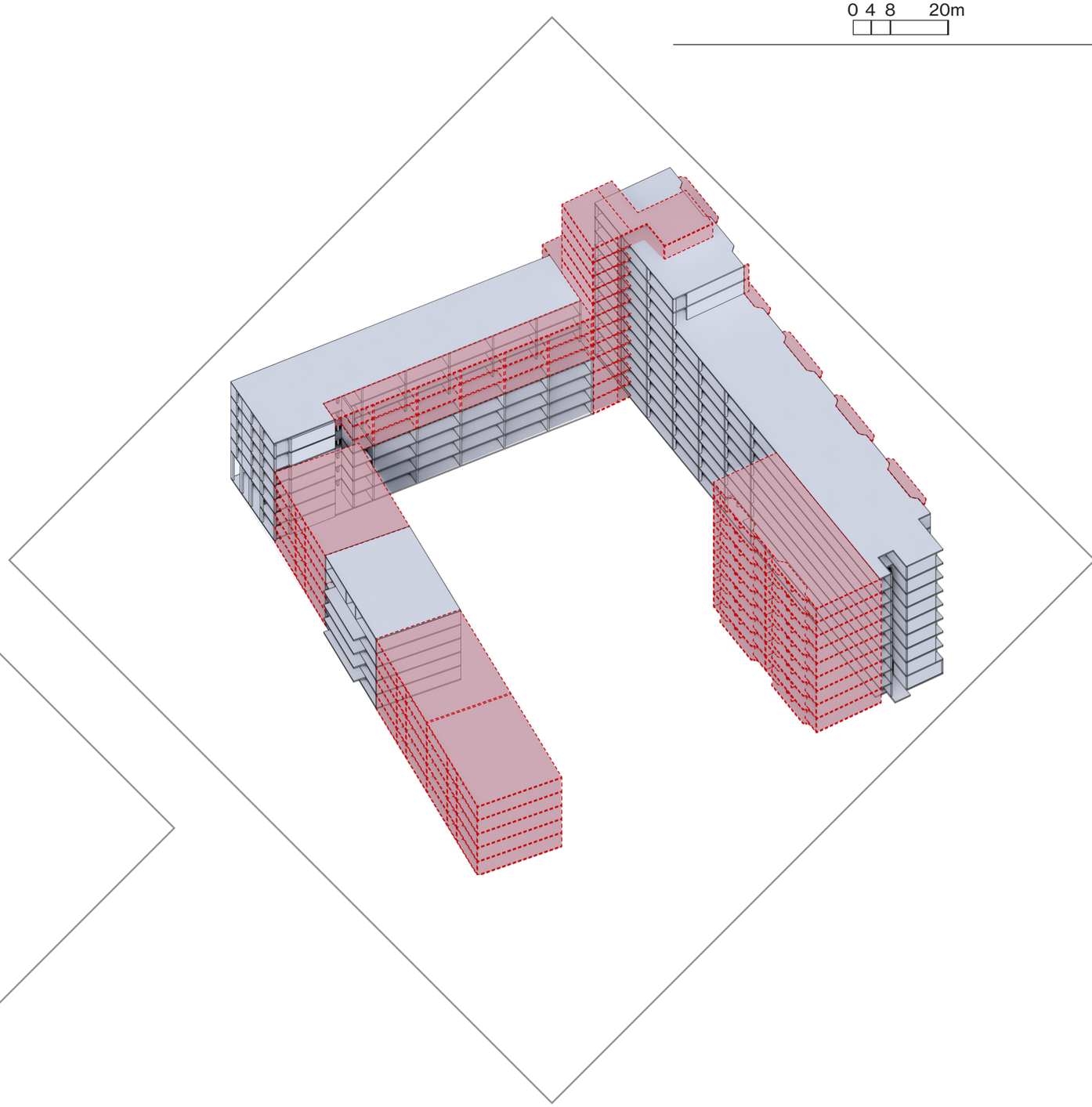
0 4 8 20m



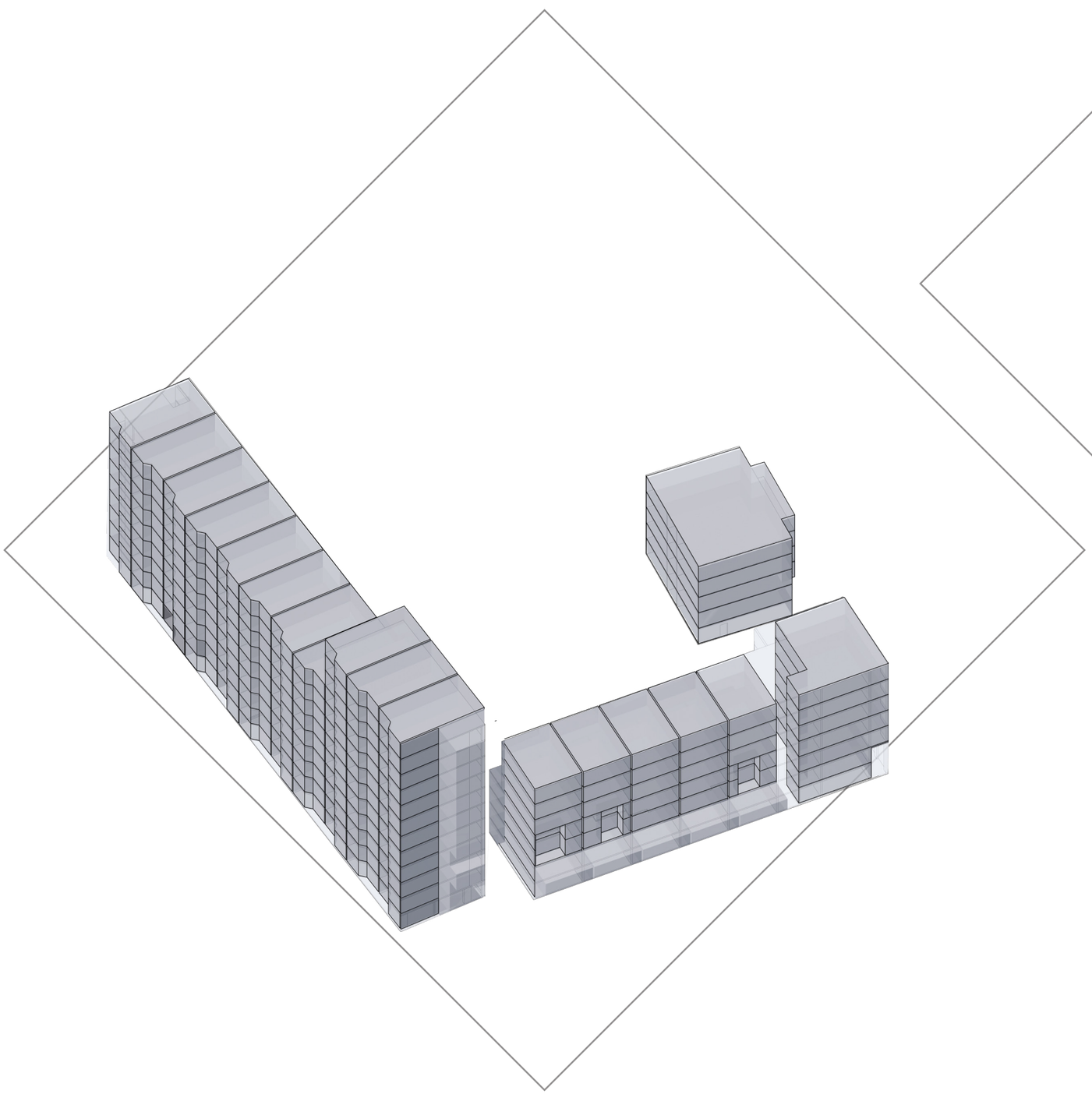


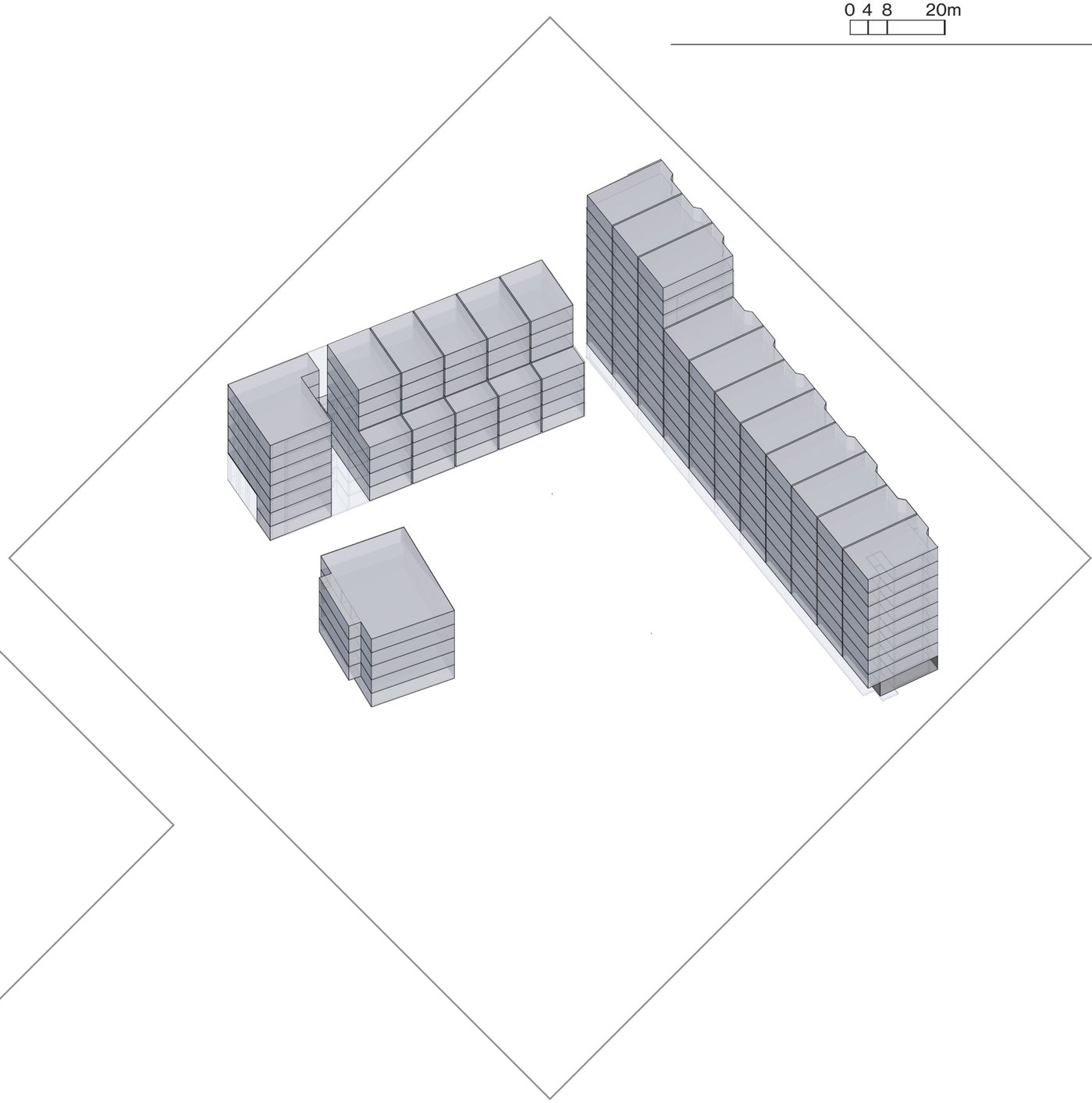
0 4 8 20m





0 4 8 20m





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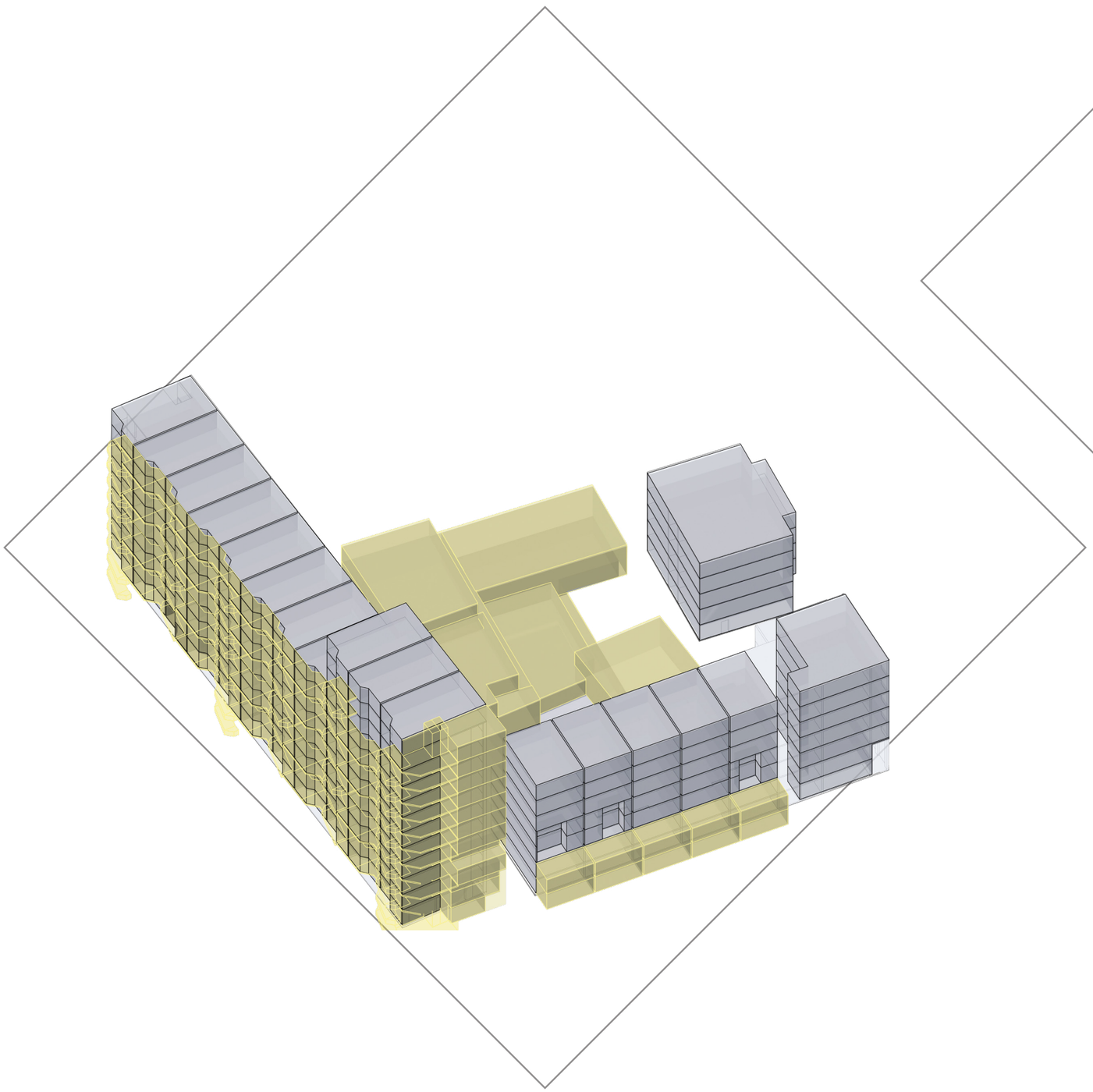
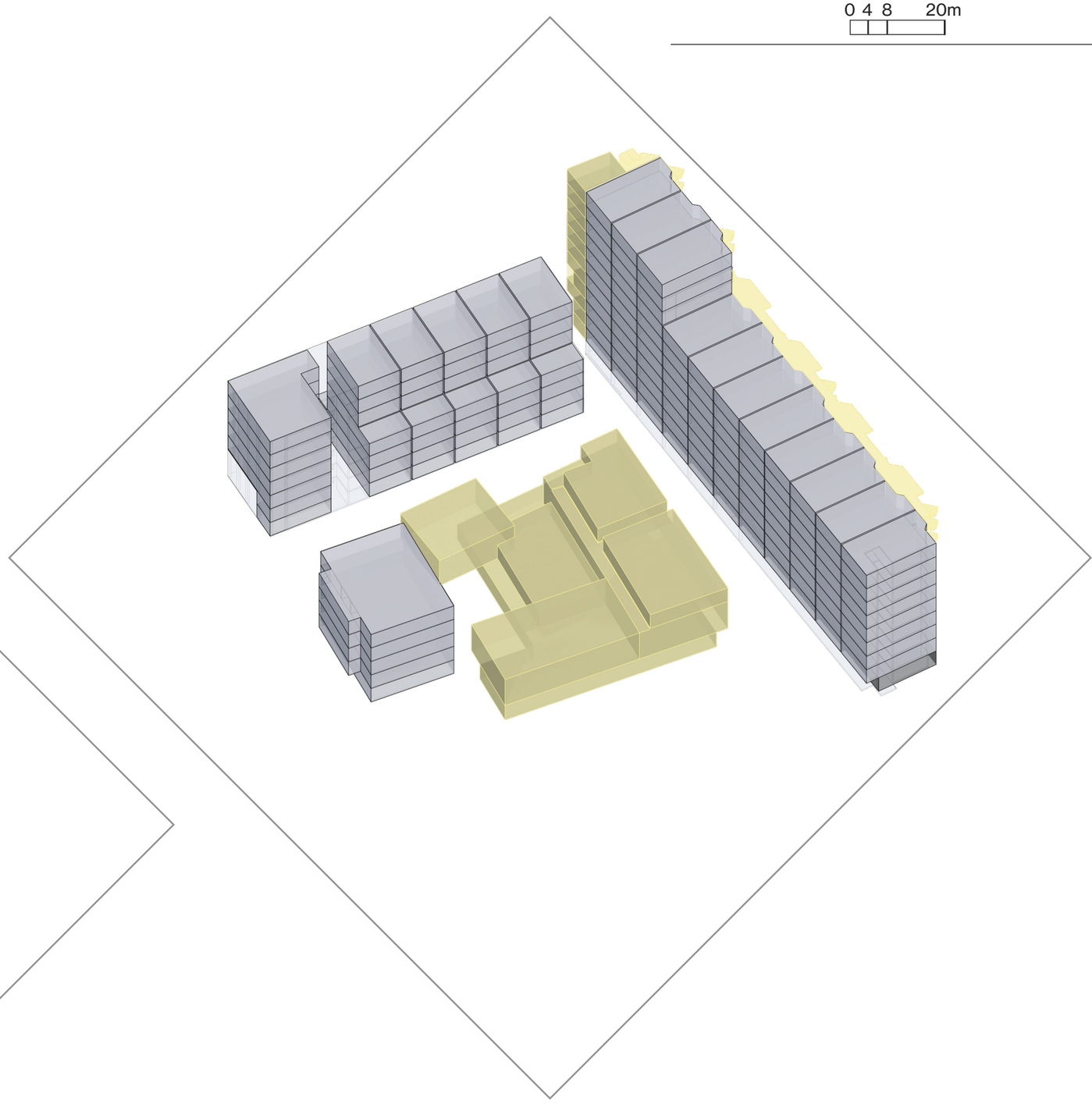




0 4 8 20m

Public / Shared

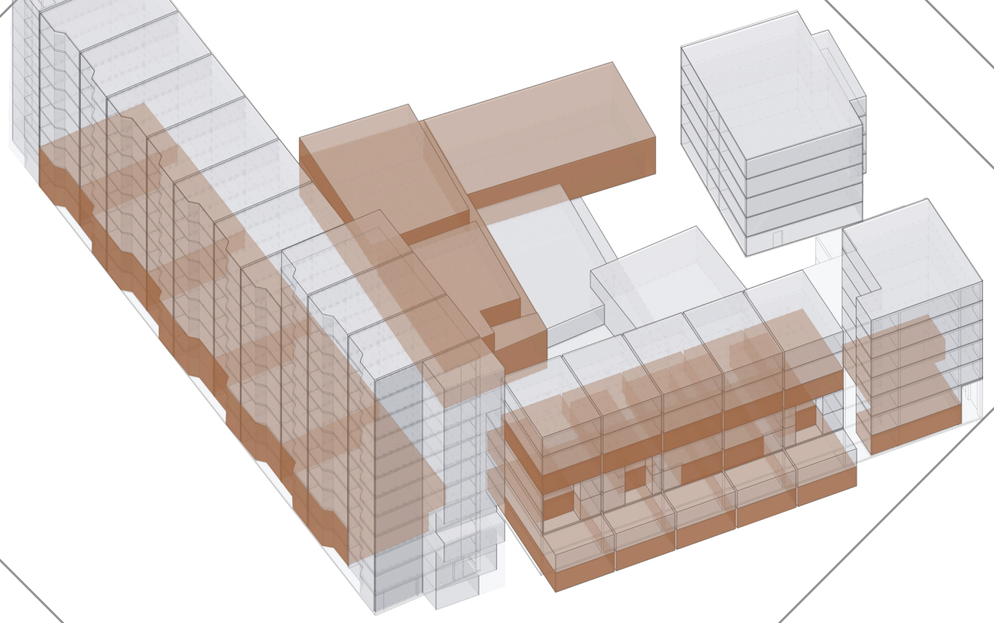
Study space

Neighbourhood association

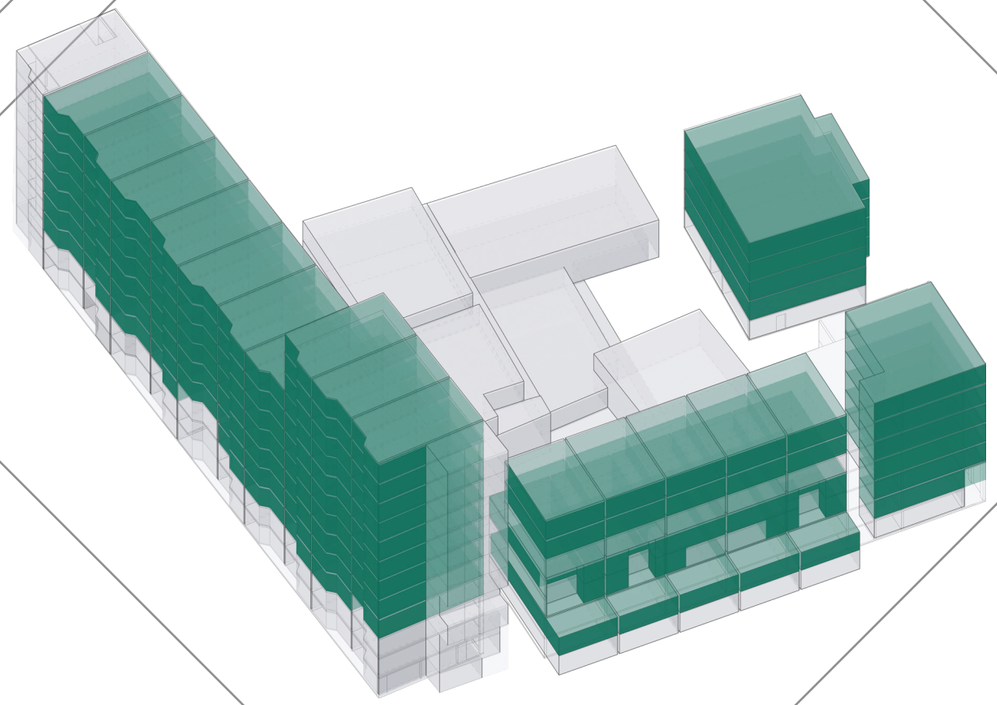
Canteen

Café

Workspace



Dwellings



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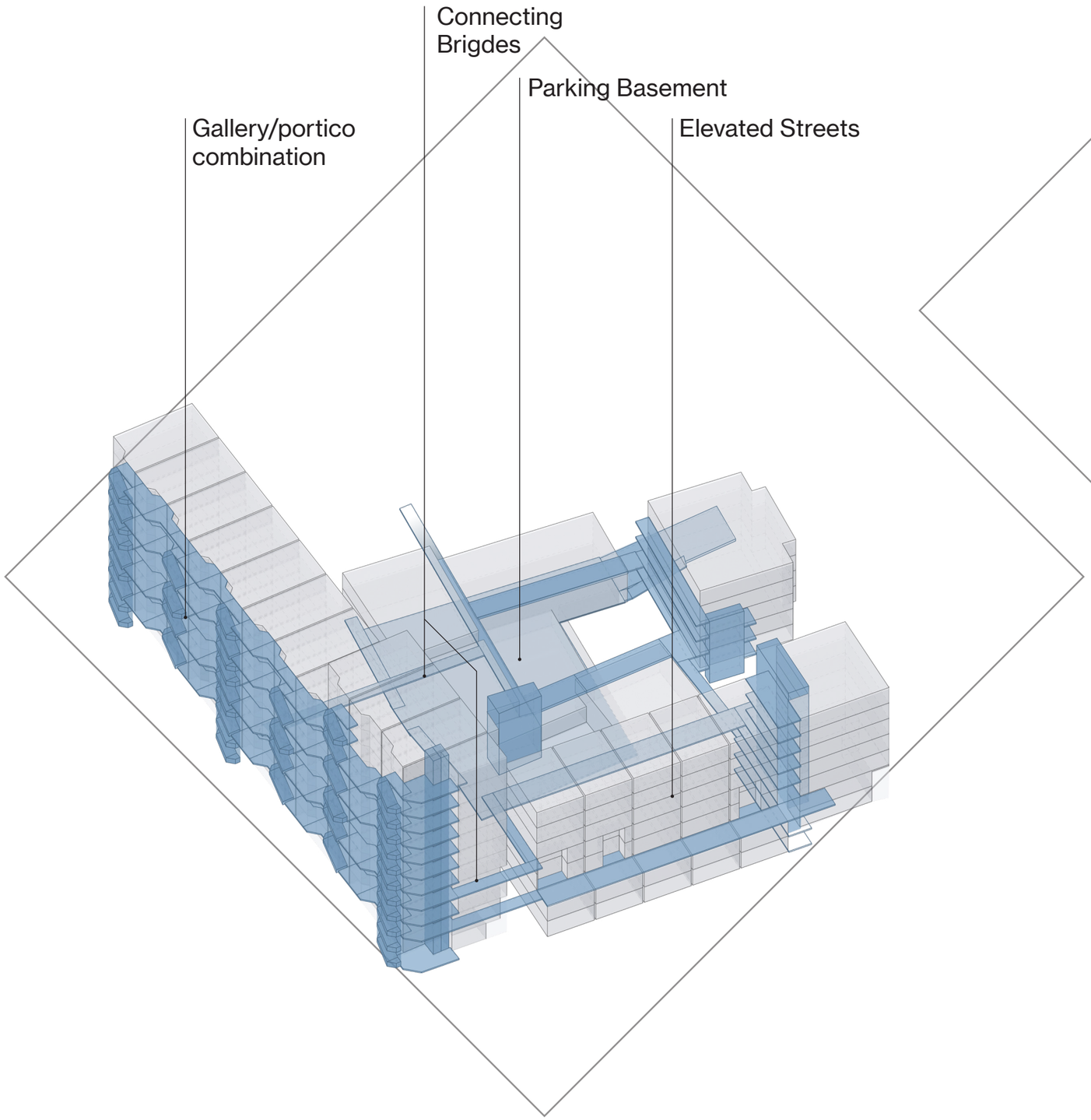
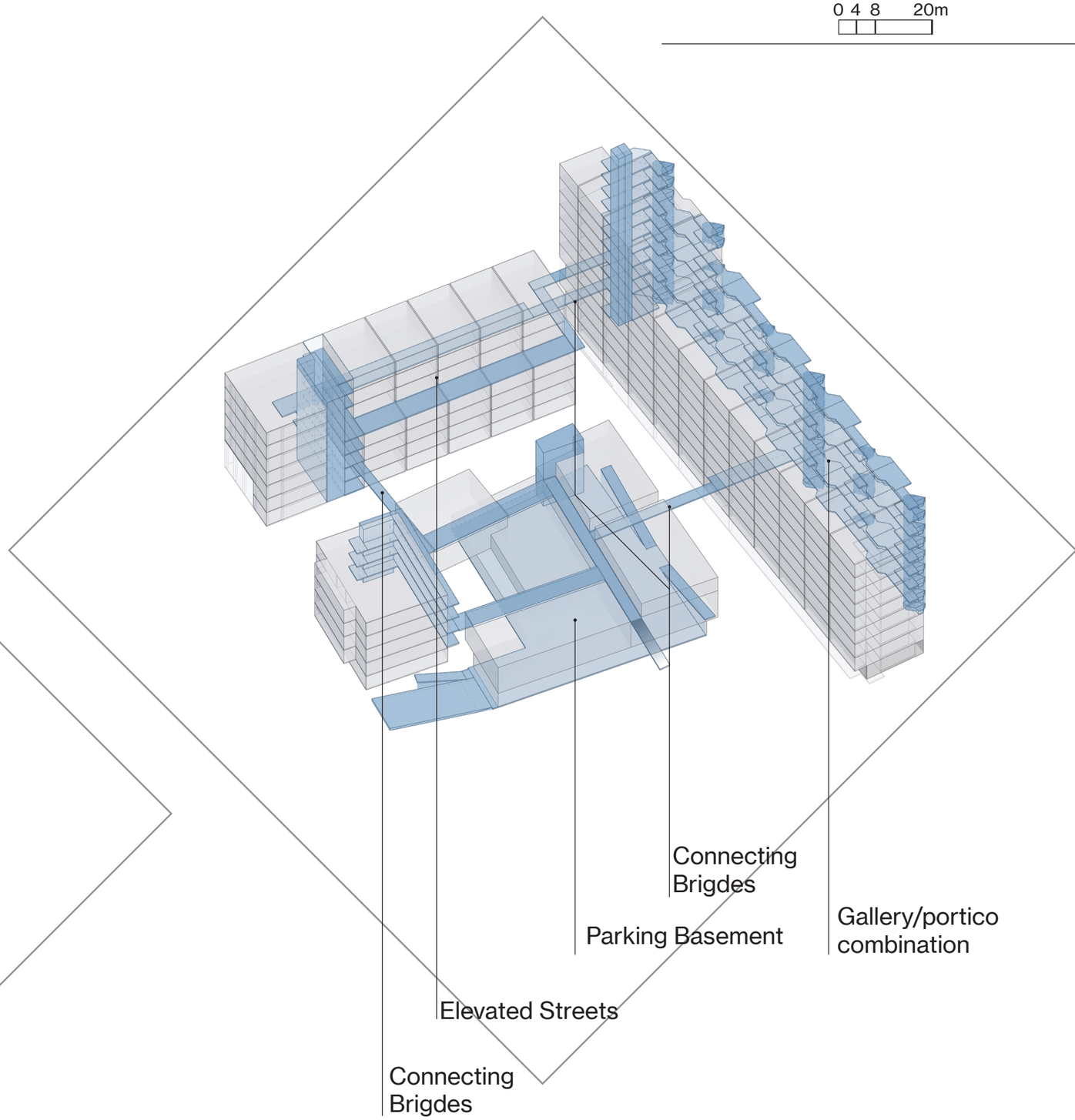

Connecting
Brigdes
Parking Basement
Gallery/portico
combination
Elevated Streets


Connecting
Brigdes
Elevated Streets
Parking Basement
Connecting
Brigdes
Gallery/portico
combination

Plan
Ground Floor

0 1 2 5m

Café **1**
Canteen **2**
Neighbourhood association **3**
Manufacturing **4**
Shop **5**
Gallery entry **6**
Terrace **7**
Waste **8**
Storage **9**
Utilities **10**
Study space **11**

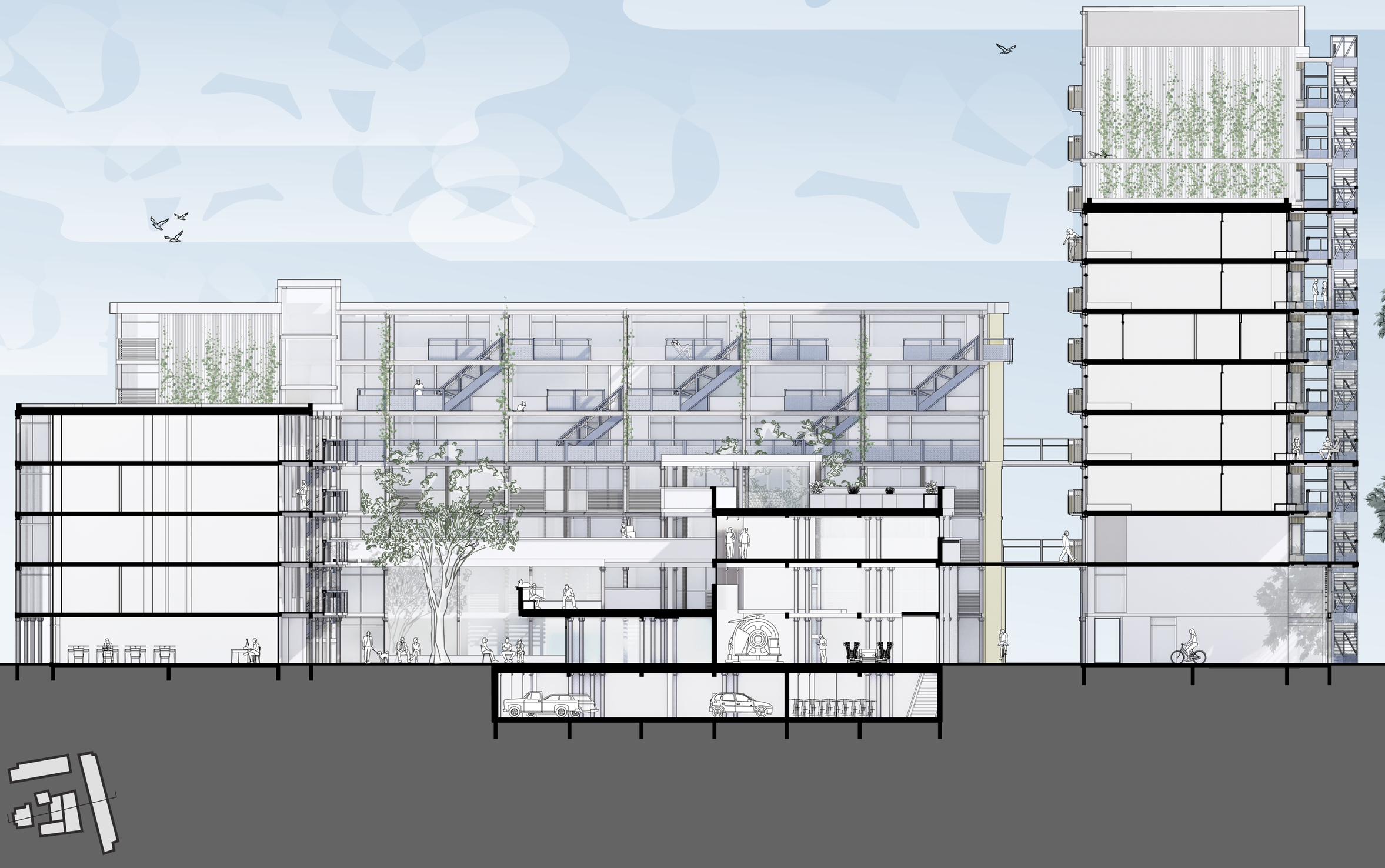
Impression

Approaching from north-east

Section

West - East

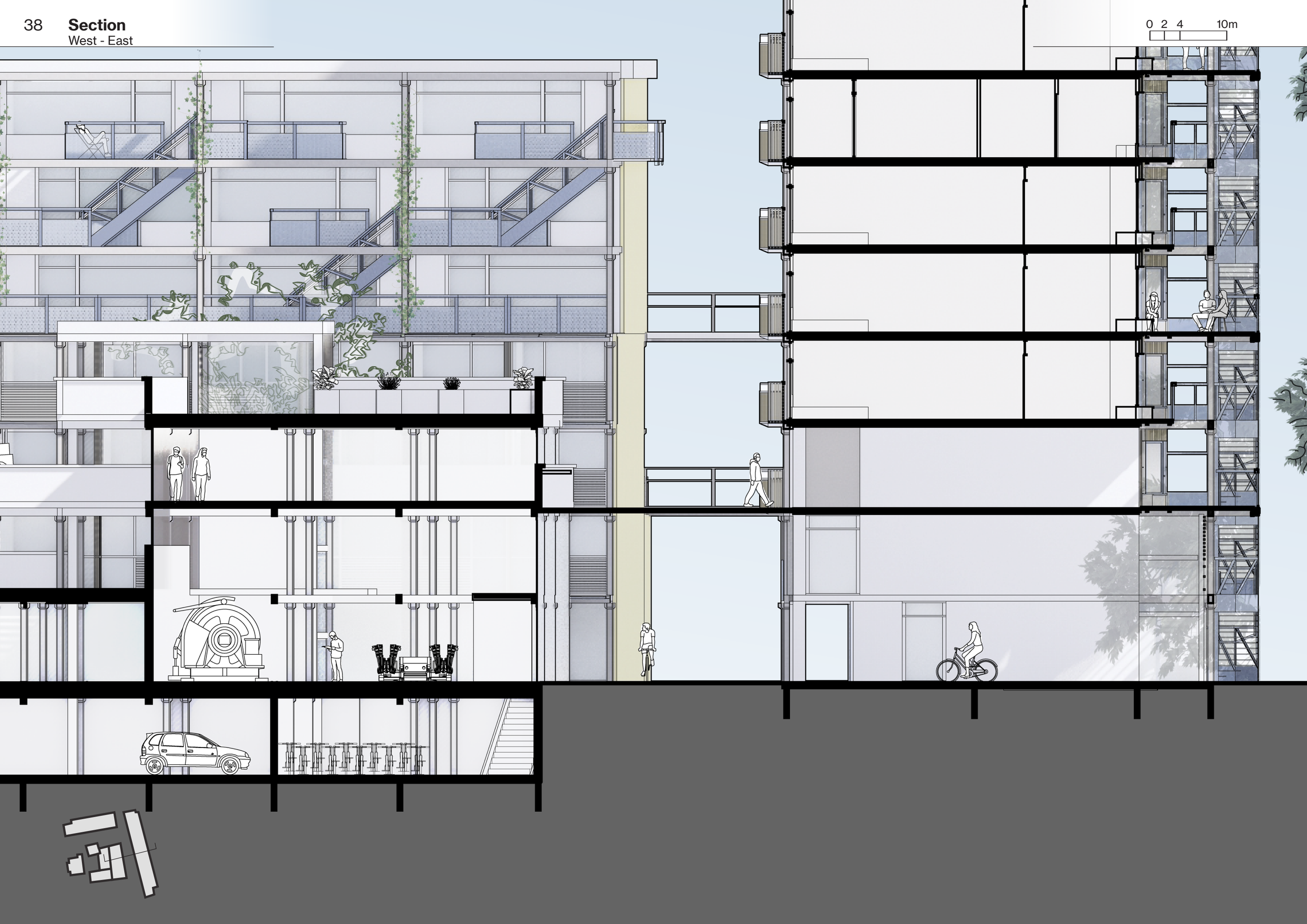
0 1 2 5m



Section

West - East

0 2 4 10m



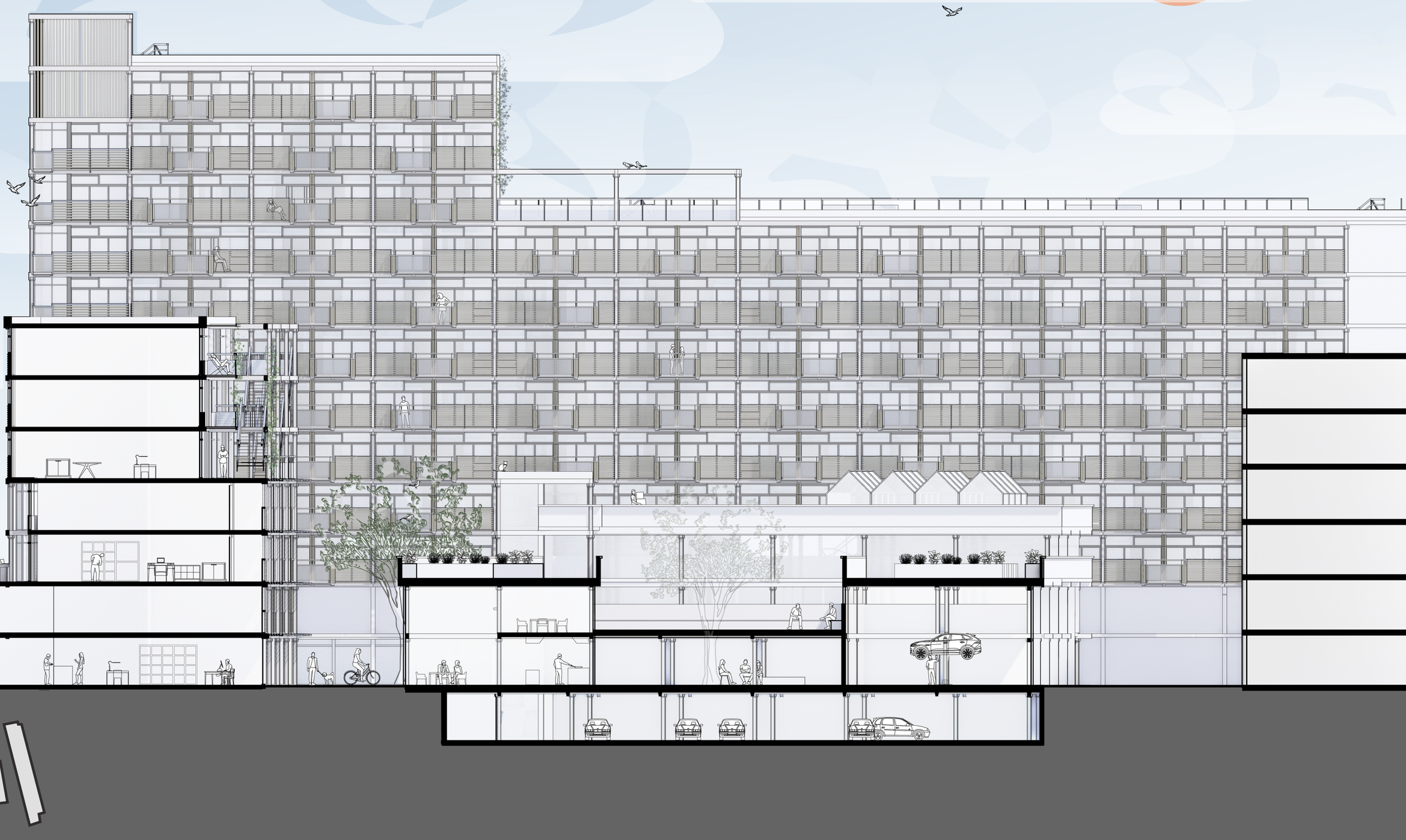
Section
West - East

0 1 2 5m

Impression
Elevated street southside

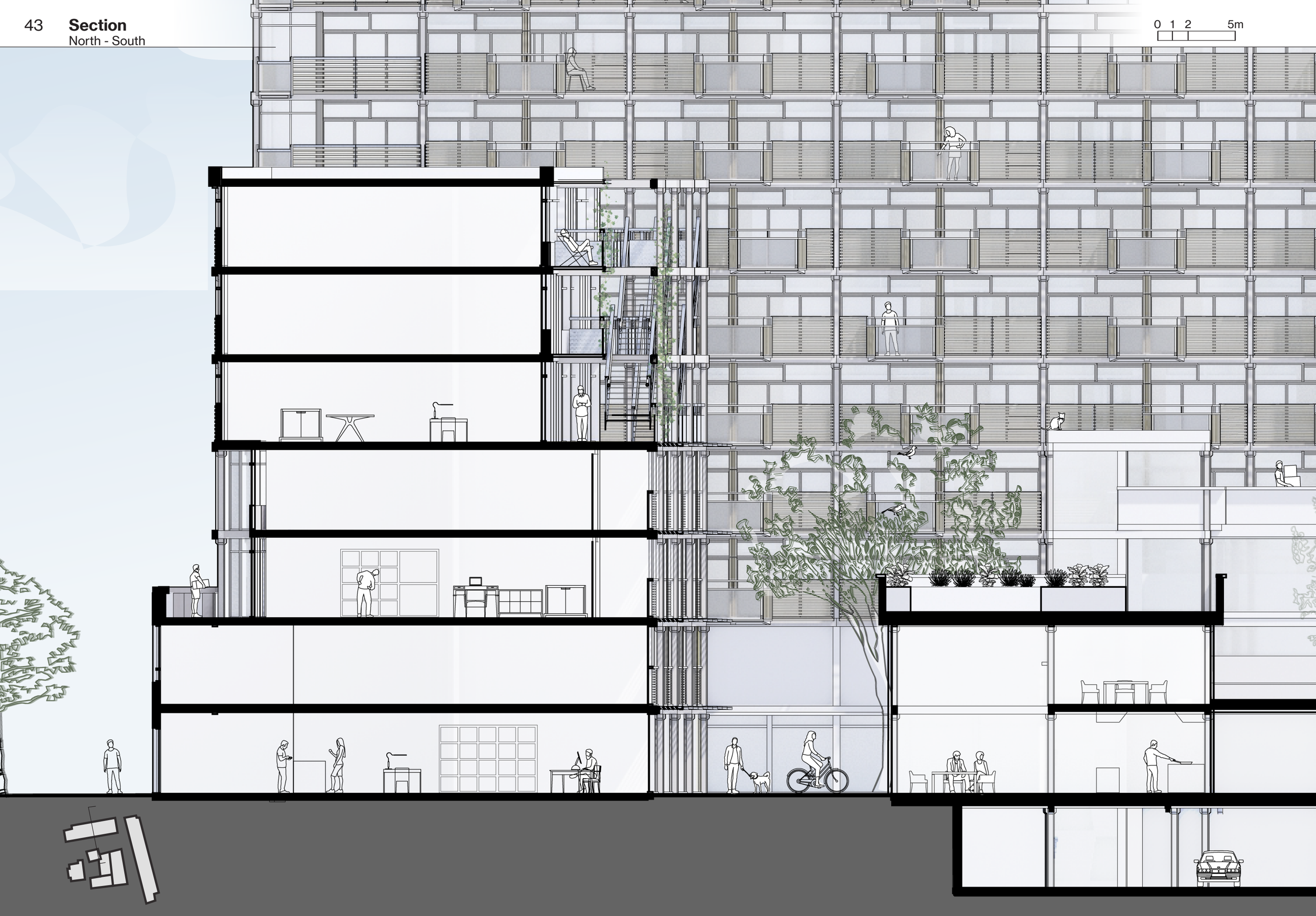
Section
North - South

0 1 2 5m



Section
North - South

0 1 2 5m

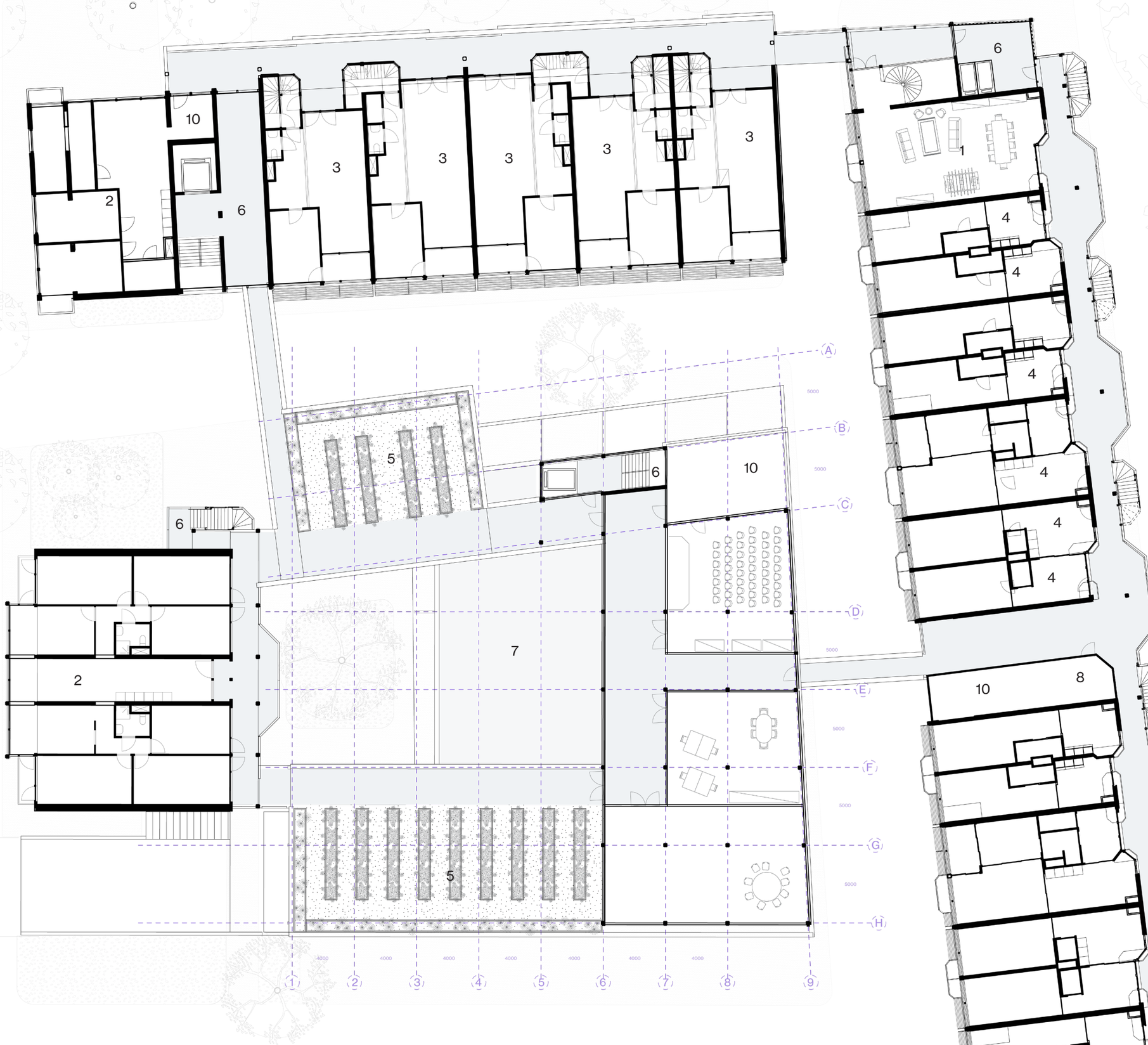


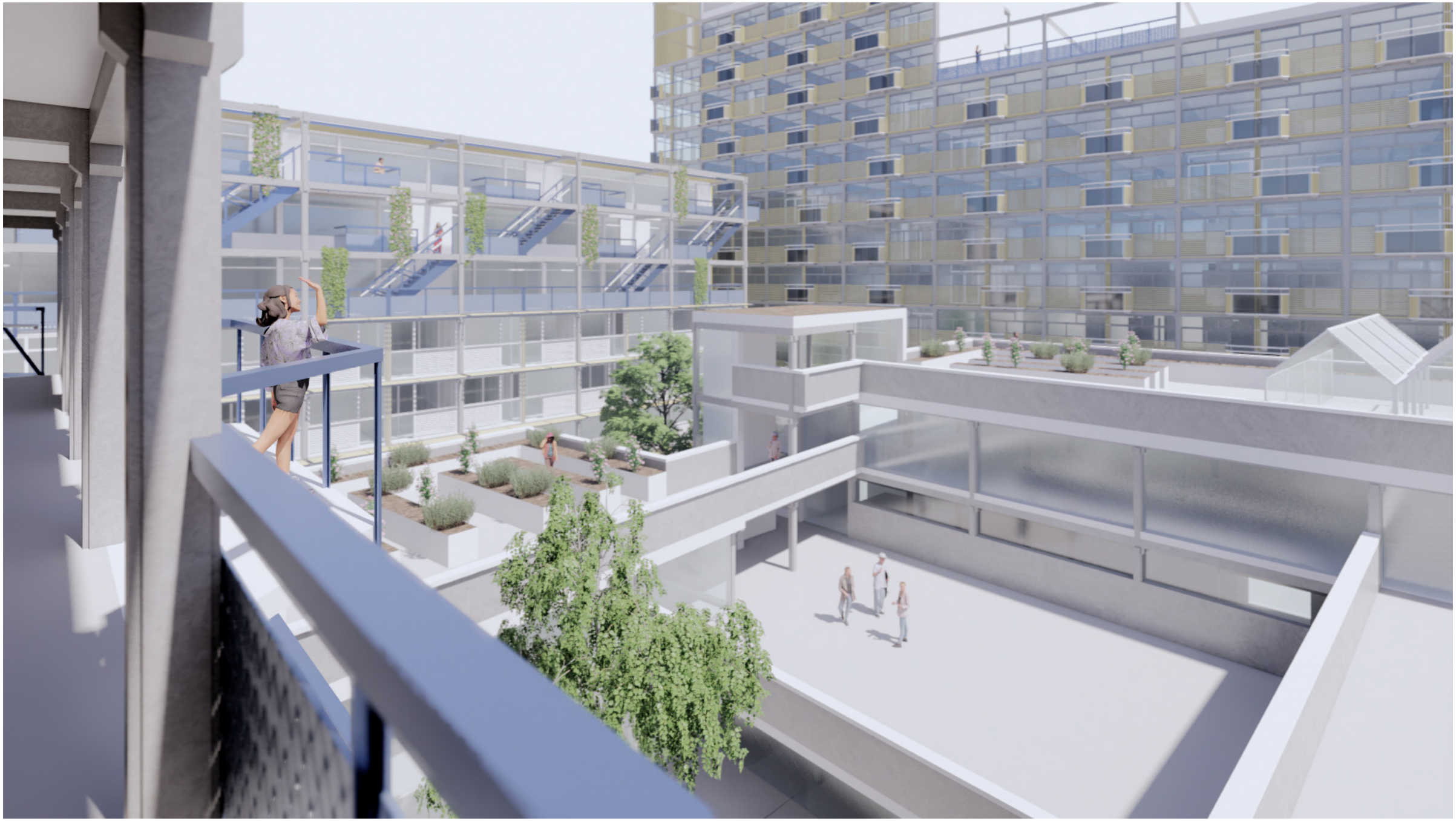
Impression

Elevated street northside

0 1 2 5m

Café	**1**
Co-living dwellings	**2**
Expert-apprentice dwelling	**3**
Solo dwellings	**4**
Rooftop food production	**5**
Gallery entry	**6**
Terrace	**7**
Waste	**8**
Storage	**9**
Utilities	**10**





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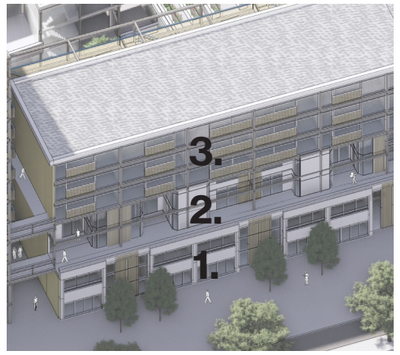
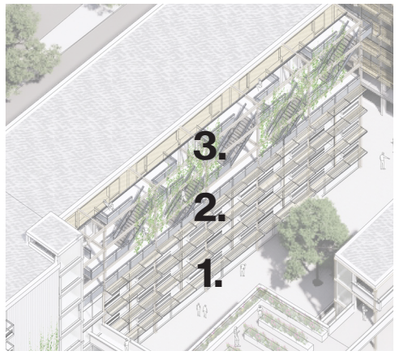




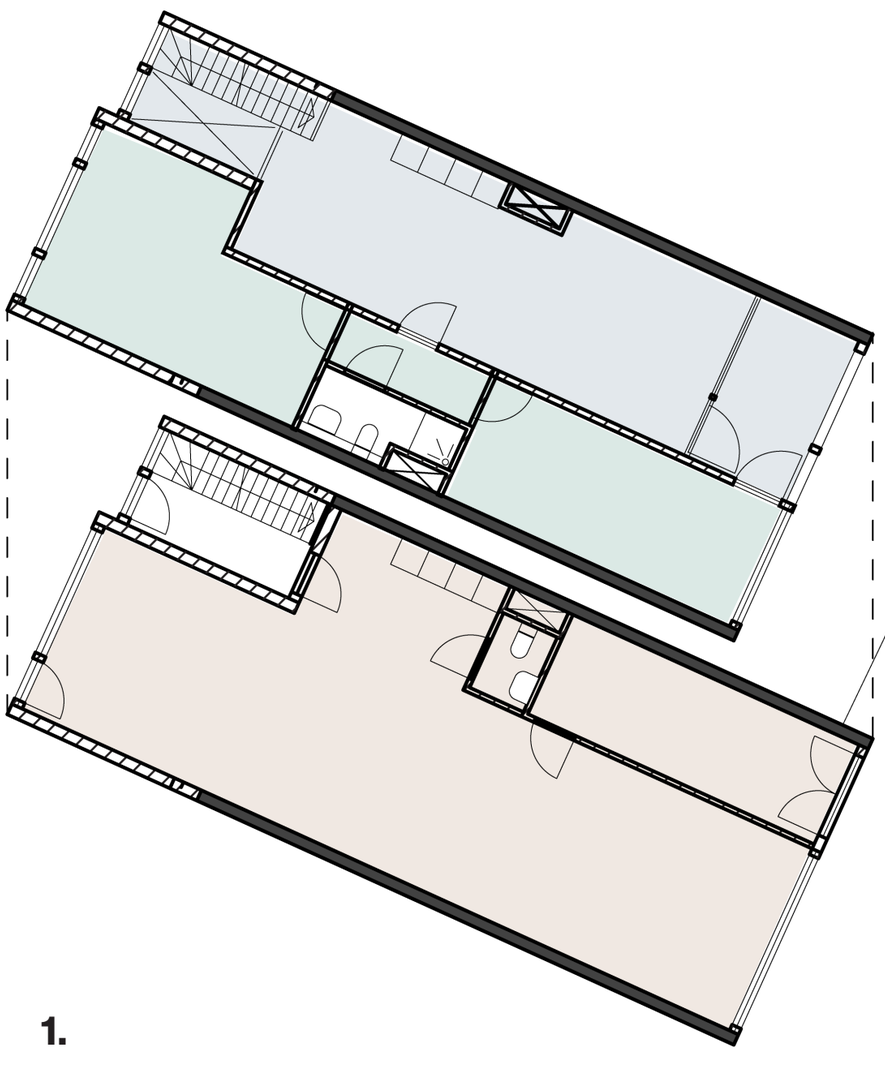
Work-Living dwellings

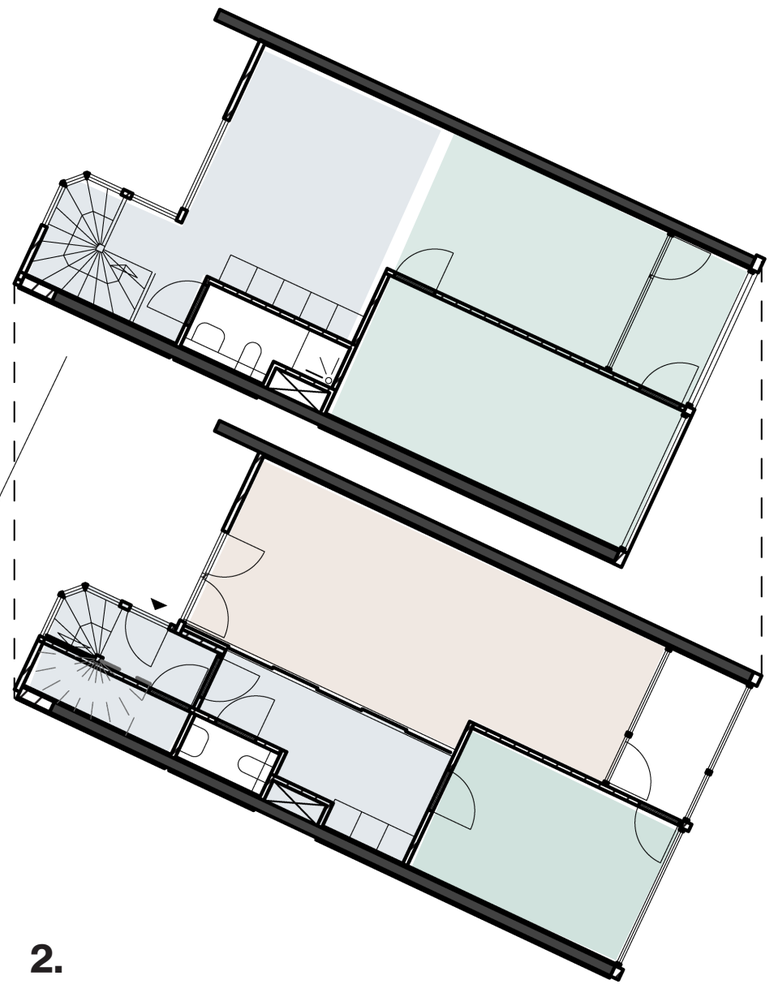
1. 2-room apartment **95 m²**
   Ground floor shop + storage **95 m²**

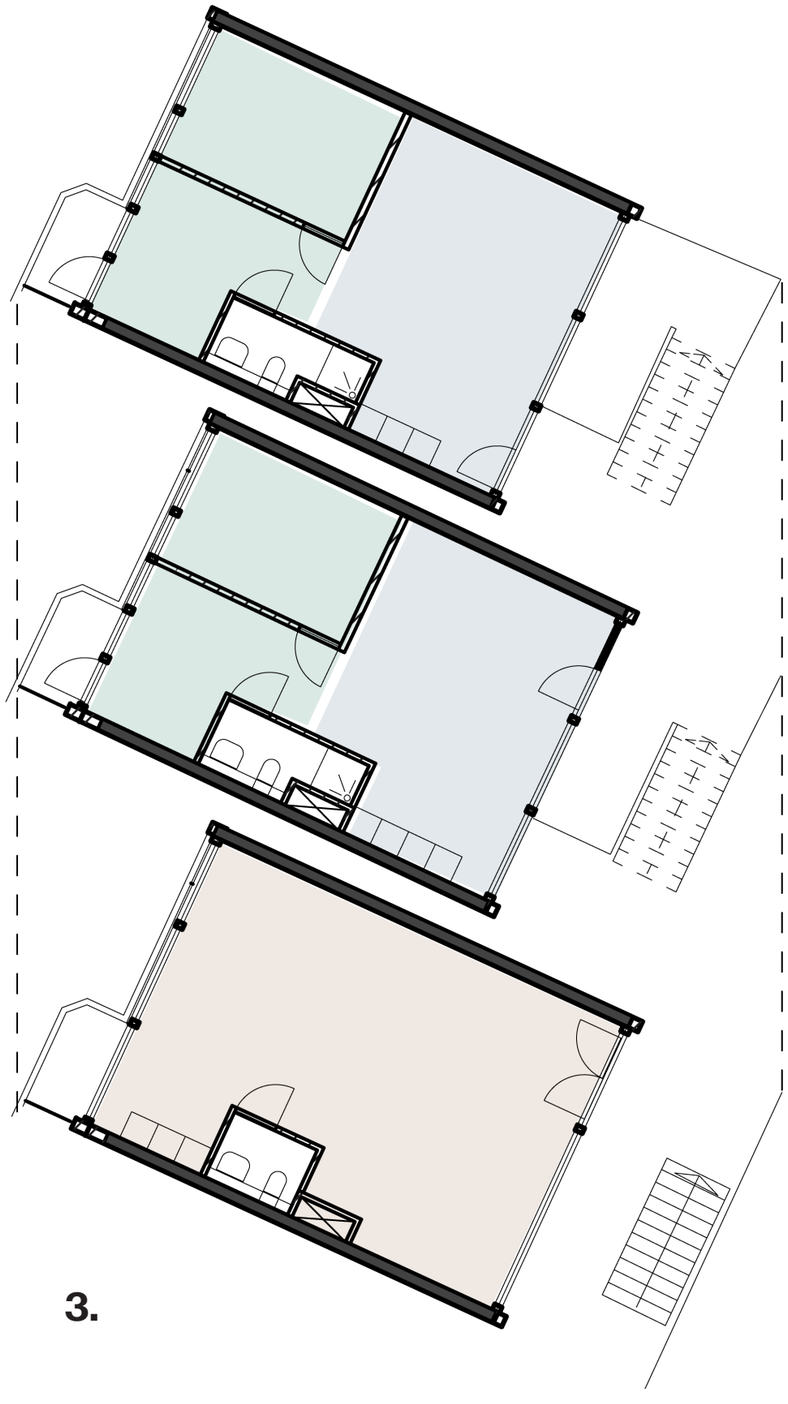
2. 2-room split apartment **110 m²**
   atelier / office / makerspace **44 m²**

3. 1-room apartment **2x 55 m²**
   atelier / office / makerspace **55 m²**

Integration space
Subjectification space
Production space







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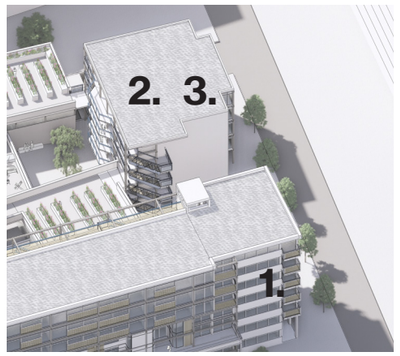
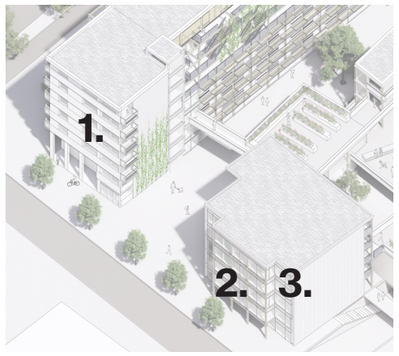


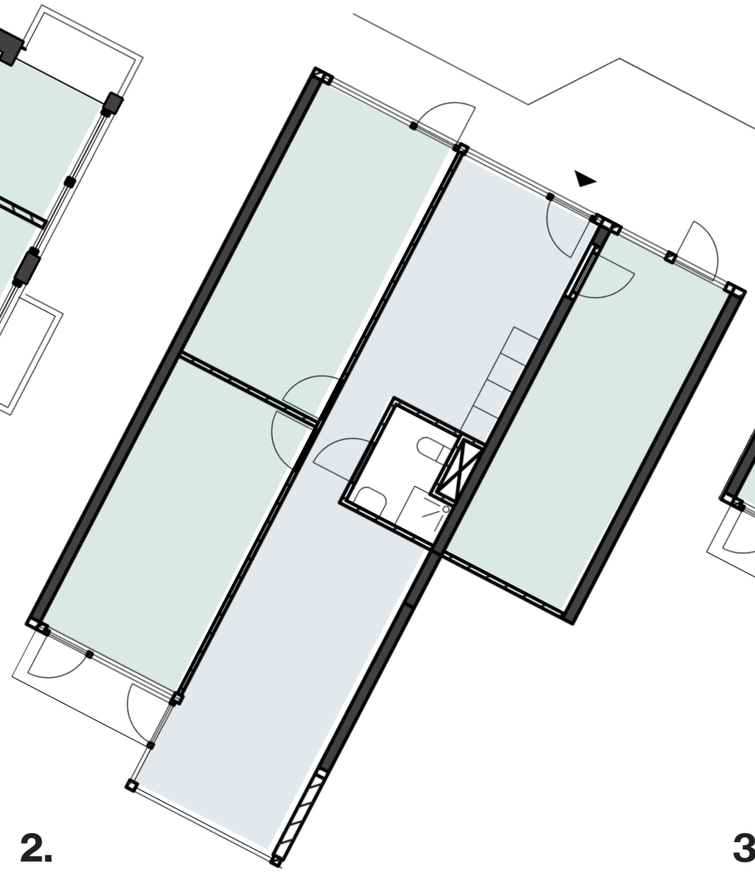


Co-living dwellings

1. 4-room apartment **130 m²**
2. 3-room apartment (mirrored) **110 m²**
3. 6-room apartment **220 m²**

Integration space
Subjectification space
Production space

1.



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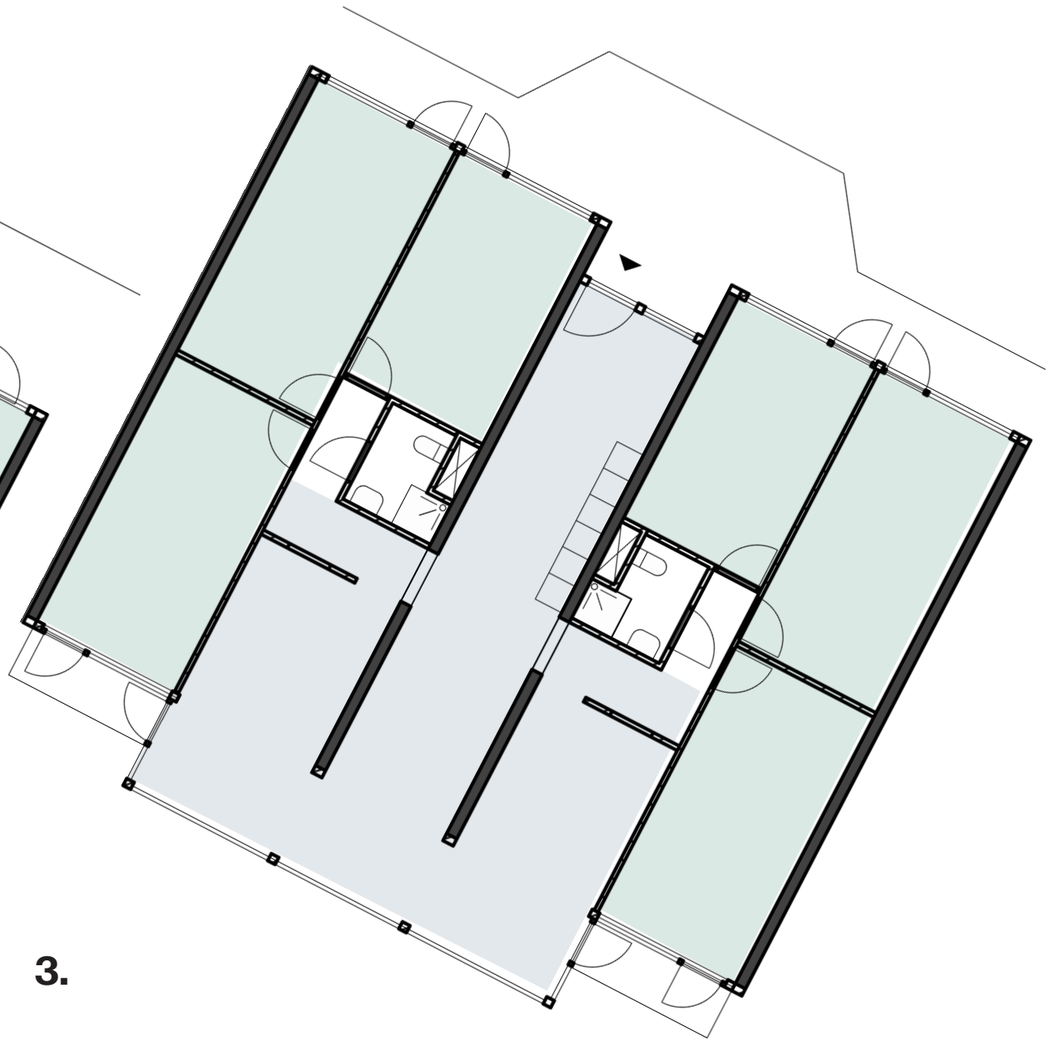
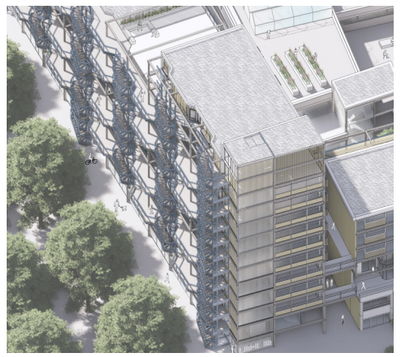


3.

0 0,5 1 2,5m



Solo / shared dwellings

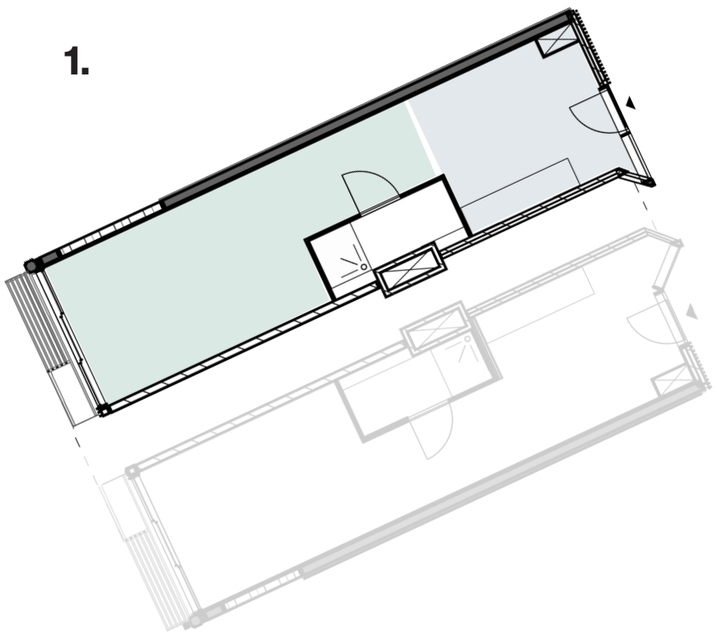
1. Studio **36 m²**
2. 2-room apartment / dual studio **72 m²**
3. 1.5-room apartment **72 m²**

Integration space

Subjectification space

Production space

1.



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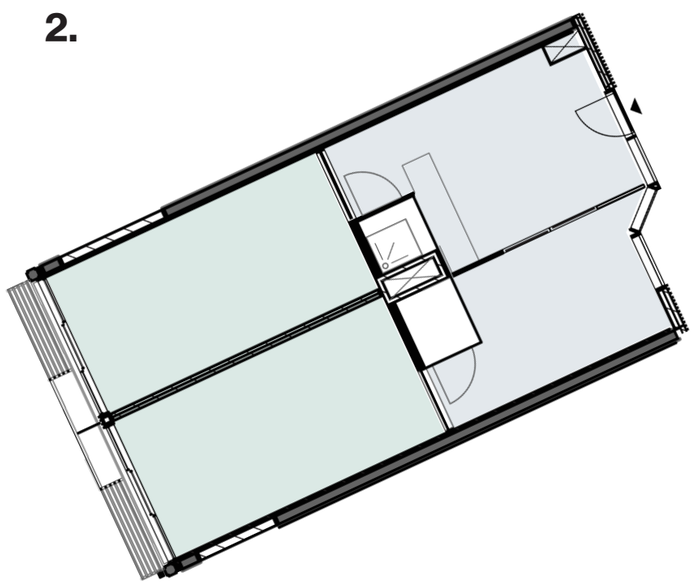

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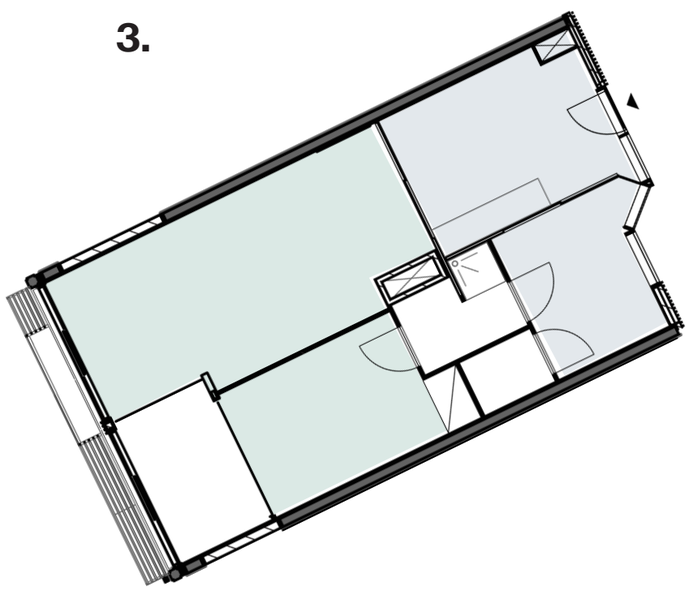
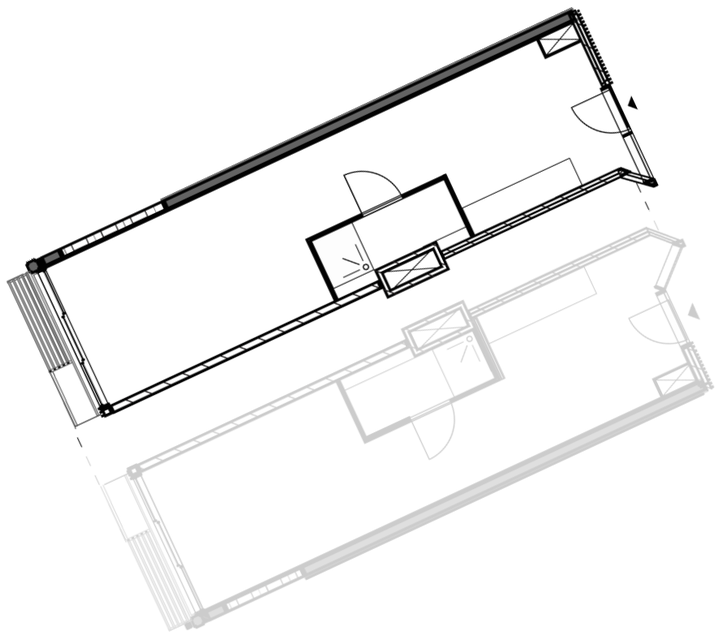
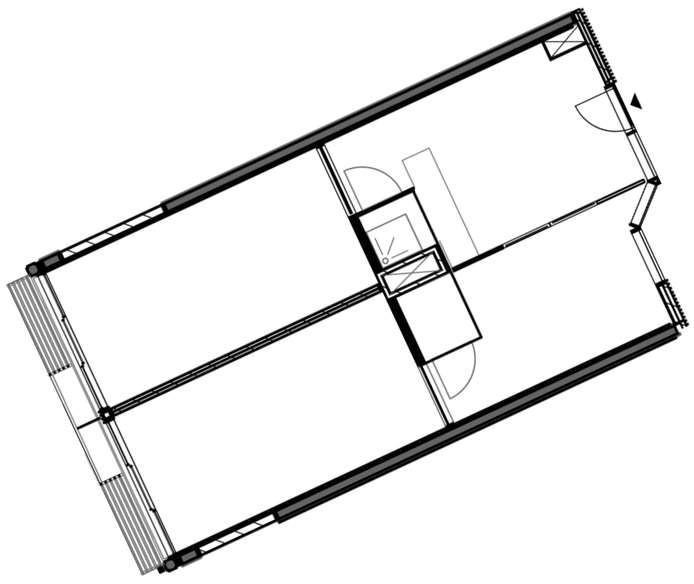


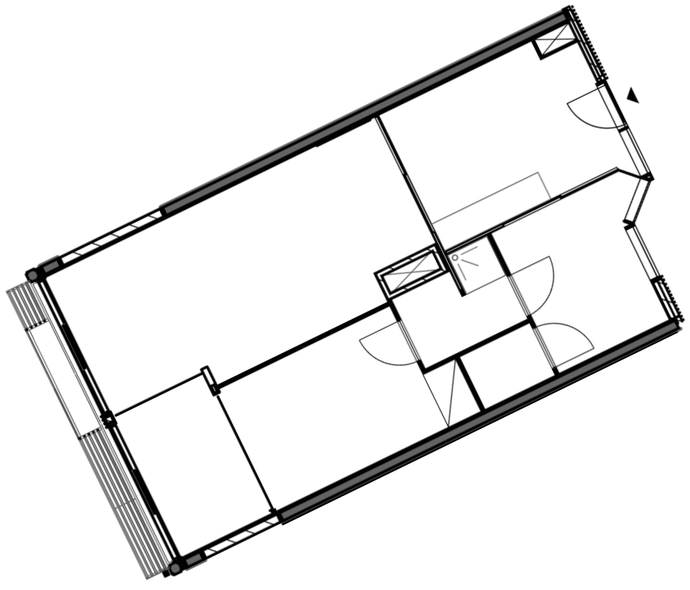
pet-owner prone to psychotic attacks



handyman who struggles with loneliness



musician with a partner both former drug addicts



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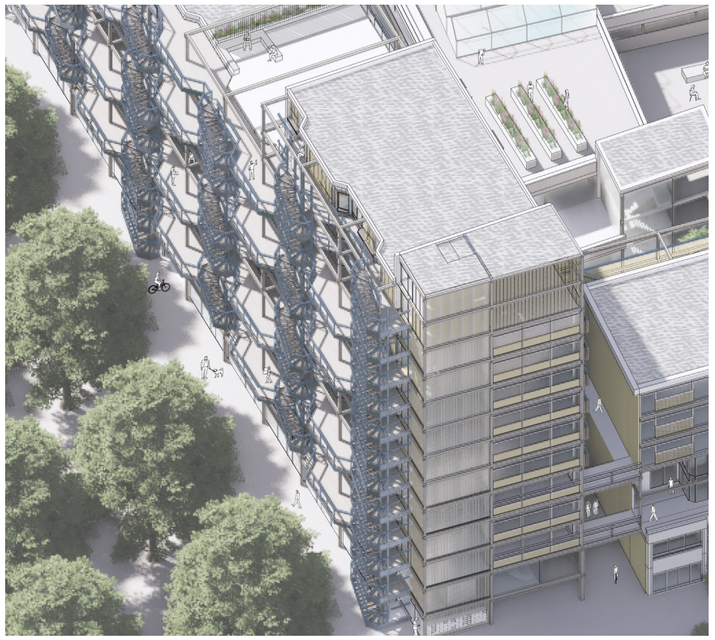

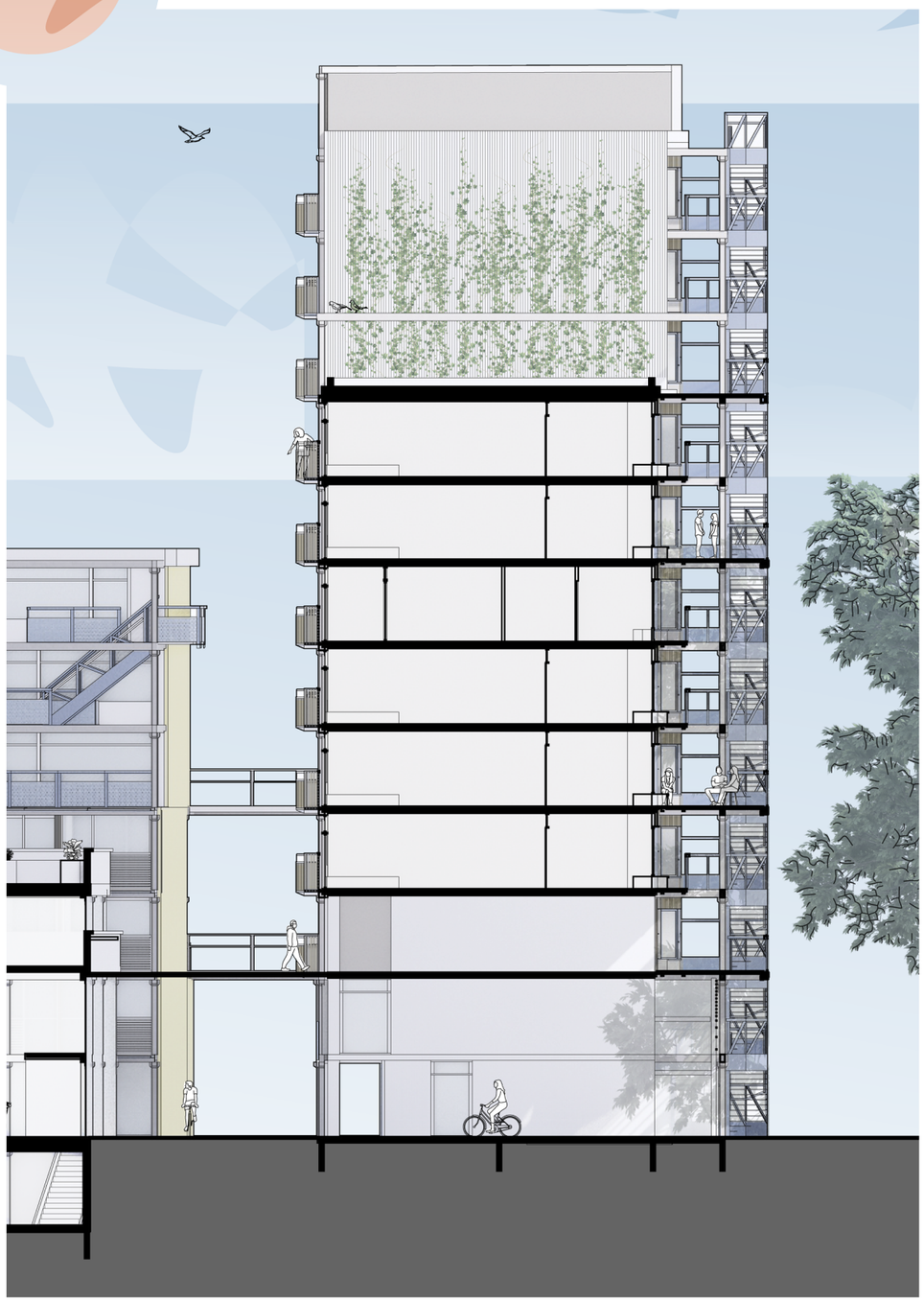

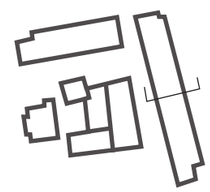

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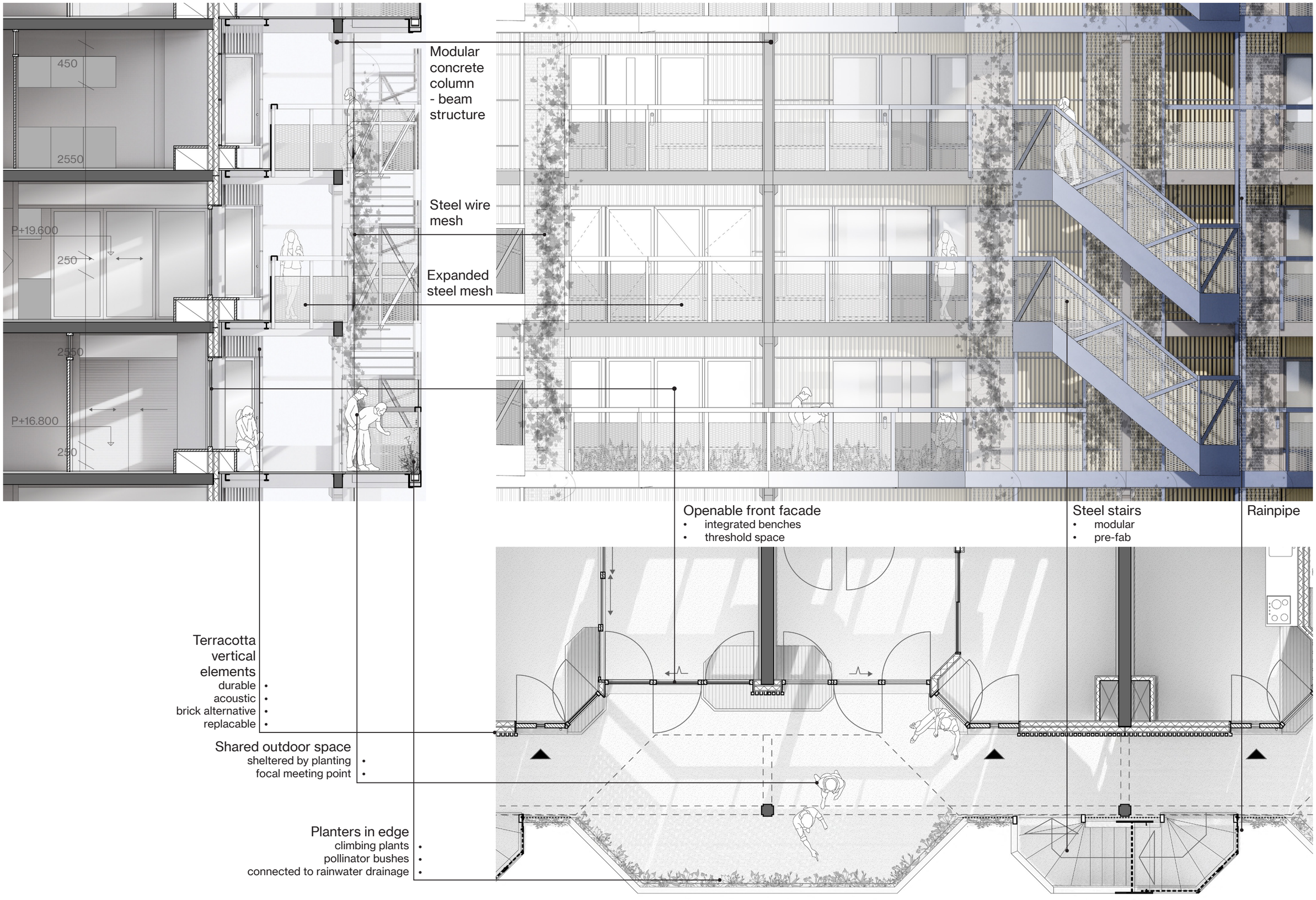
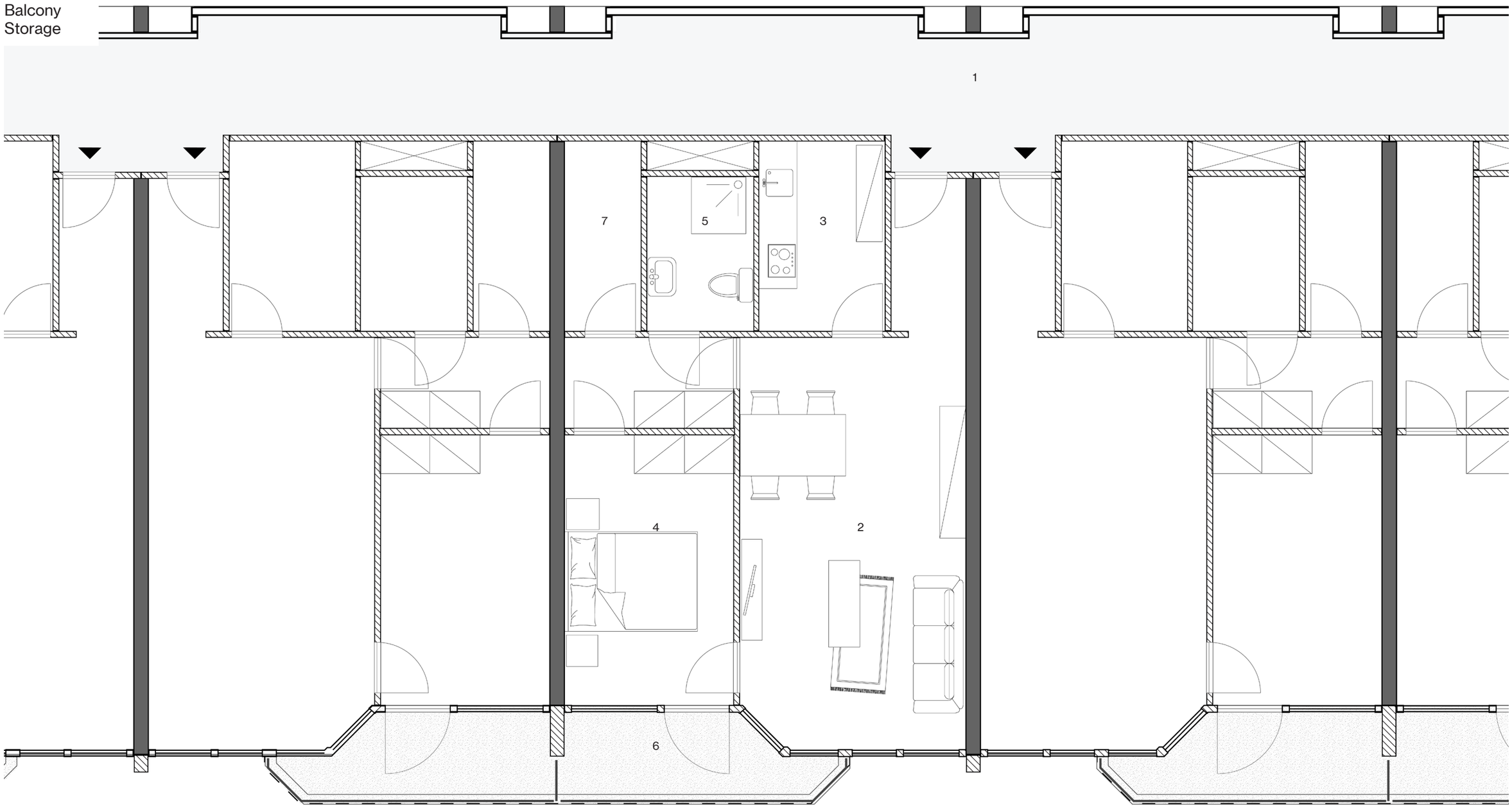

450
2550
P+19.600
250
2550
P+16.800
250
Modular concrete column - beam structure
Steel wire mesh
Expanded steel mesh
Openable front facade
• integrated benches
• threshold space
Steel stairs
• modular
• pre-fab
Rainpipe
Terracotta vertical elements
durable •
acoustic •
brick alternative •
replacable •
Shared outdoor space
sheltered by planting •
focal meeting point •
Planters in edge
climbing plants •
pollinator bushes •
connected to rainwater drainage •

0 0,5 1 2,5m

1. Gallery
2. Living Room
3. Kitchen
4. Bedroom
5. Bathroom
6. Balcony
7. Storage



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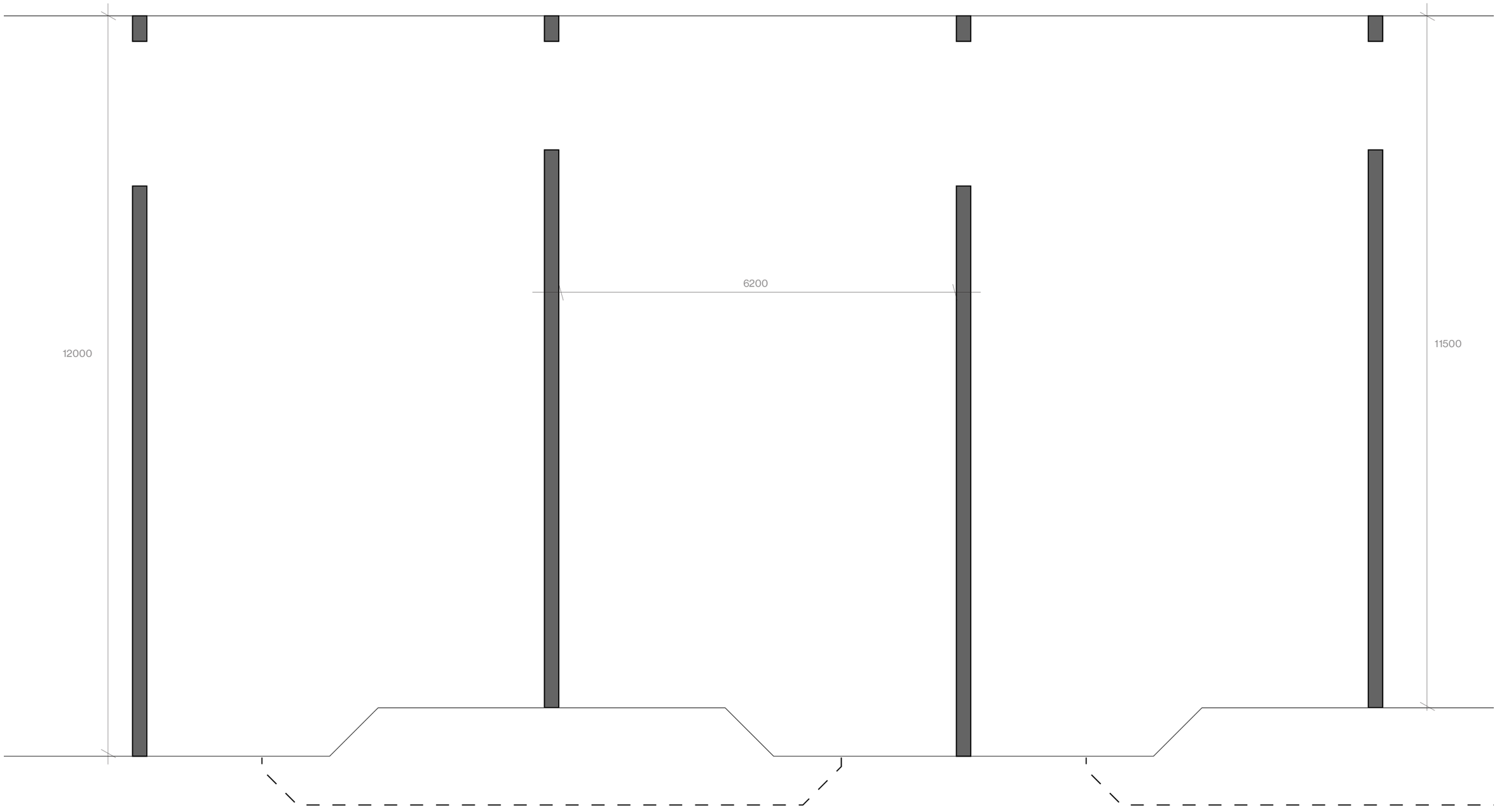

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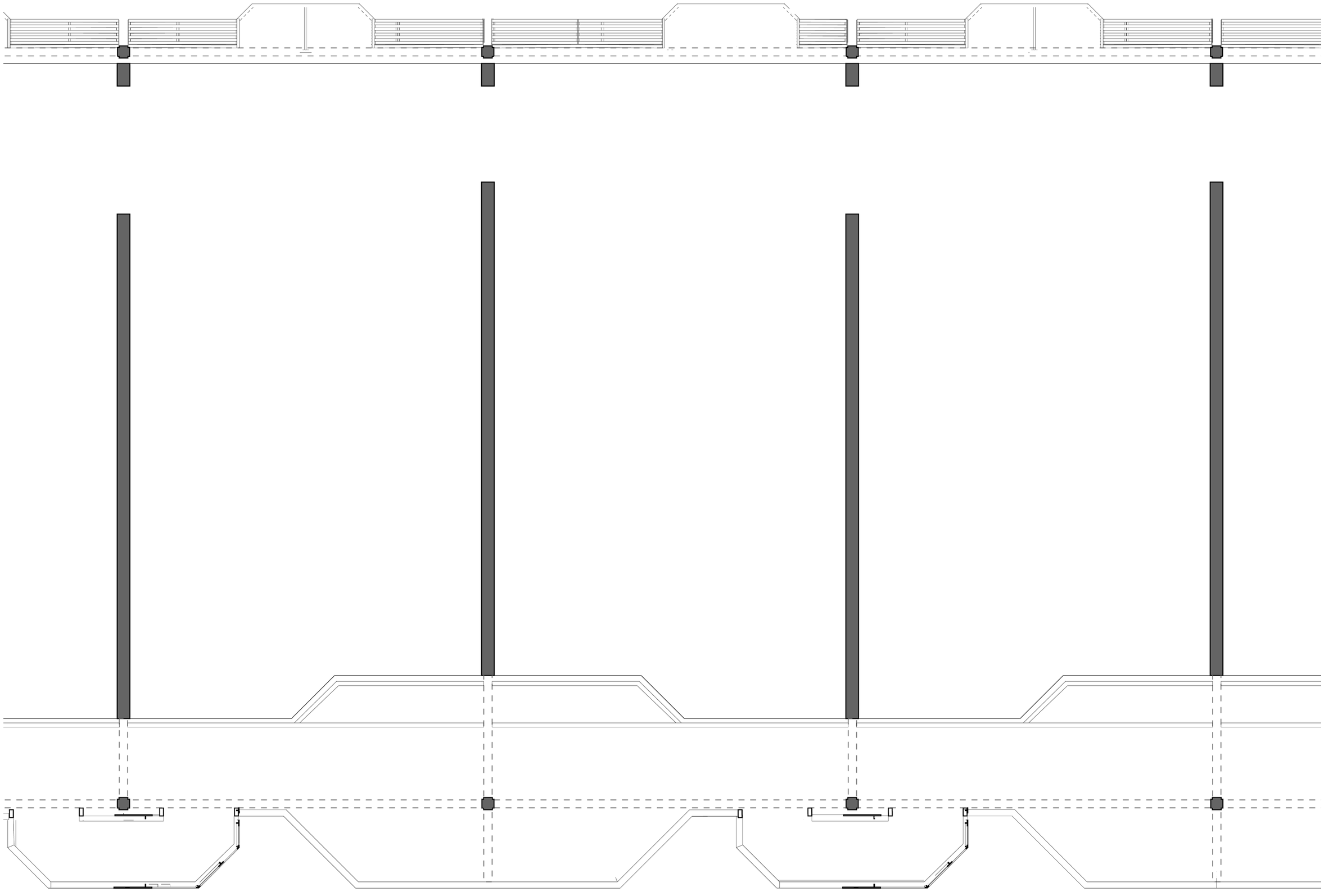
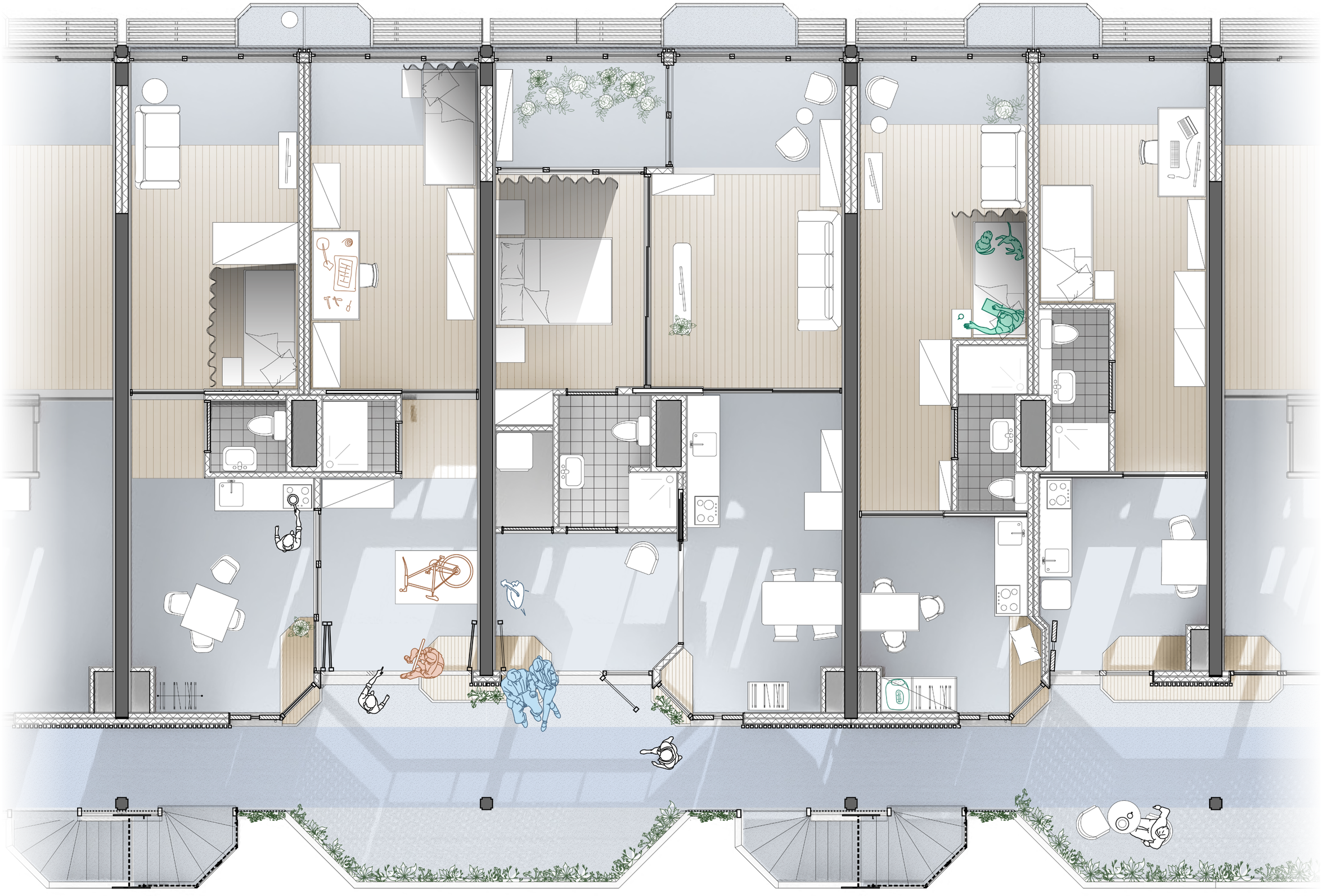


0 0,5 1 2,5m

1. Gallery
2. Living Room
3. Kitchen
4. Bedroom
5. Bathroom
6. Balcony
7. Storage
8. Winter Balcony
9. Threshold Room

0 0,5 1 2,5m



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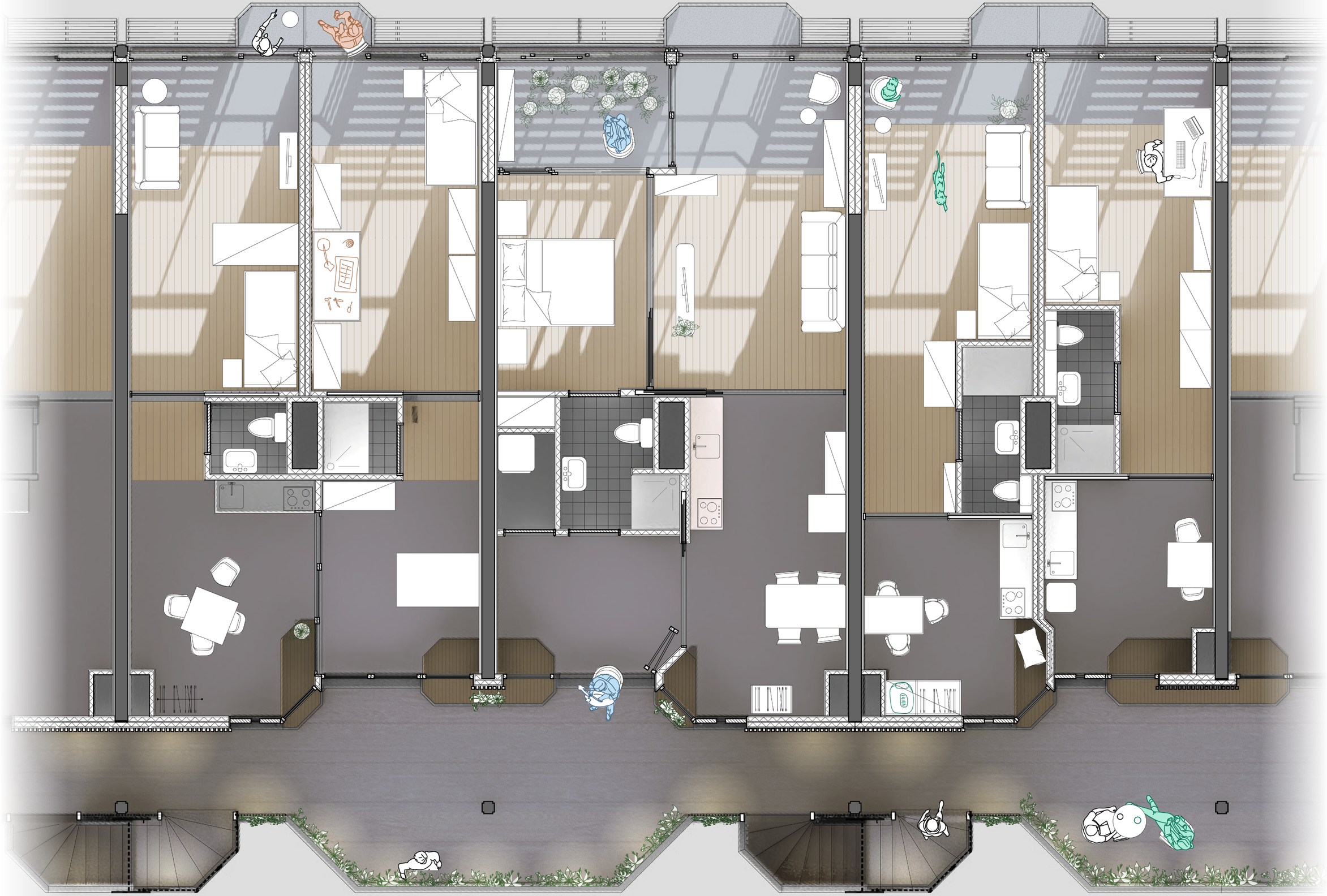

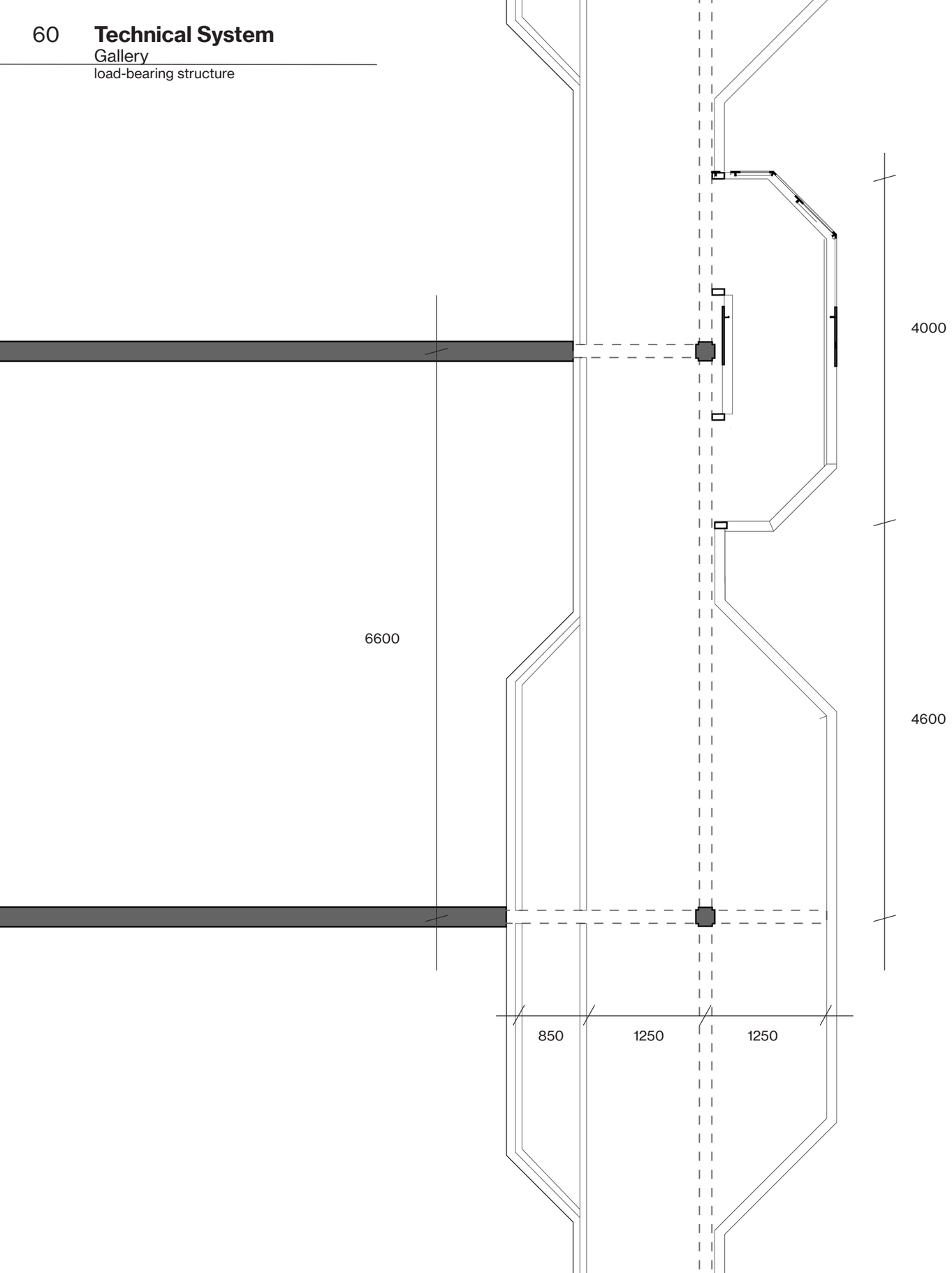
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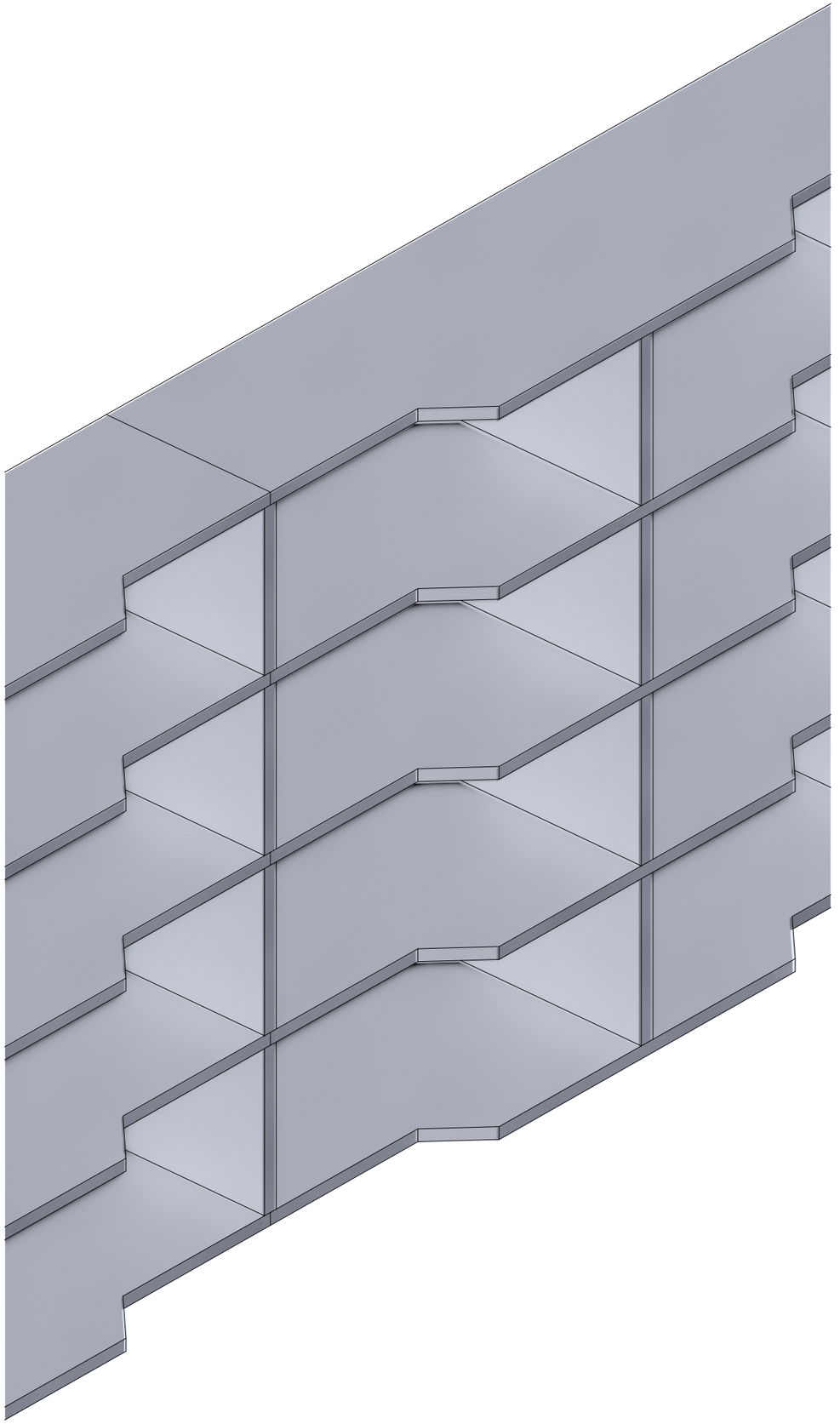

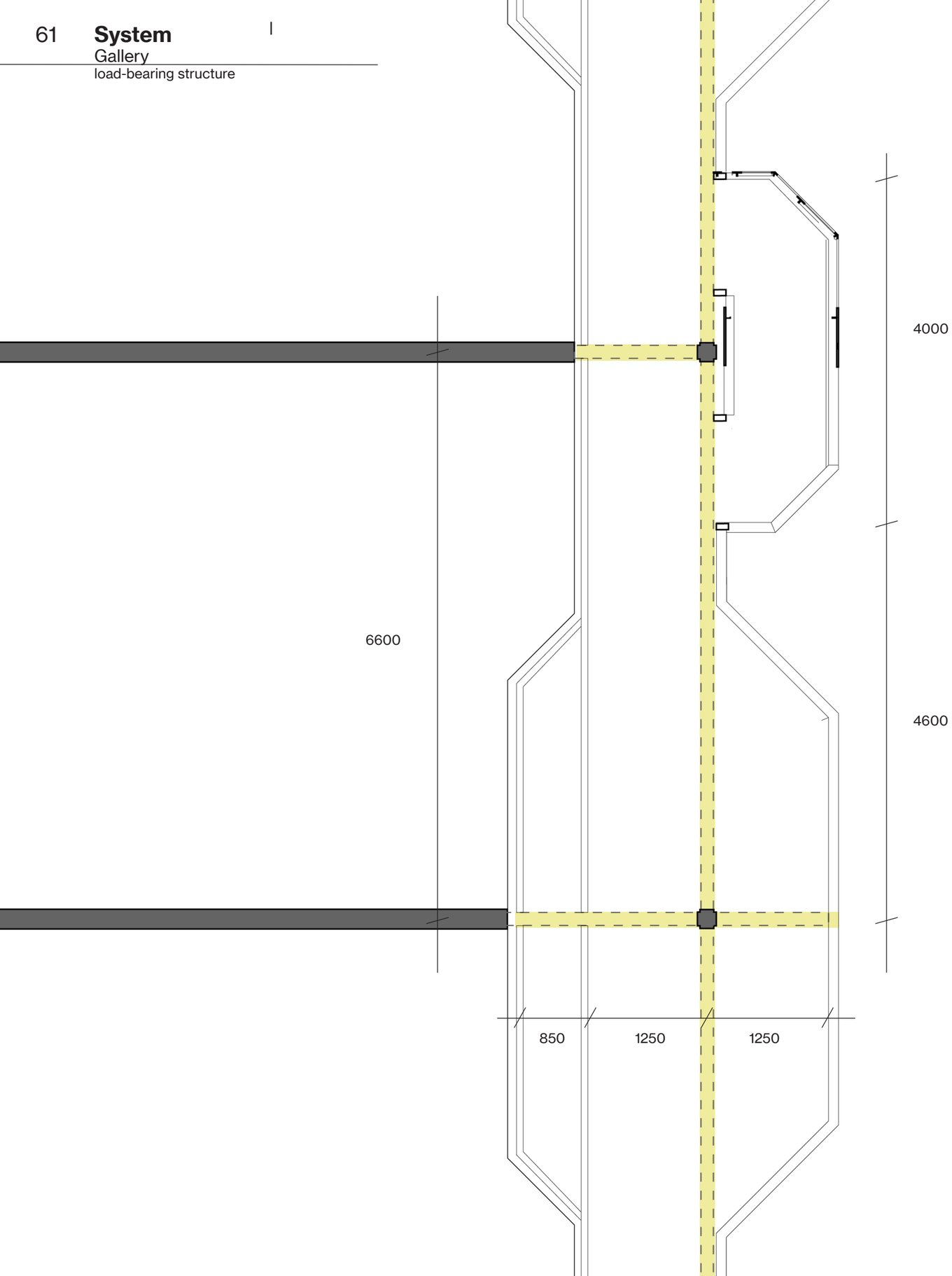
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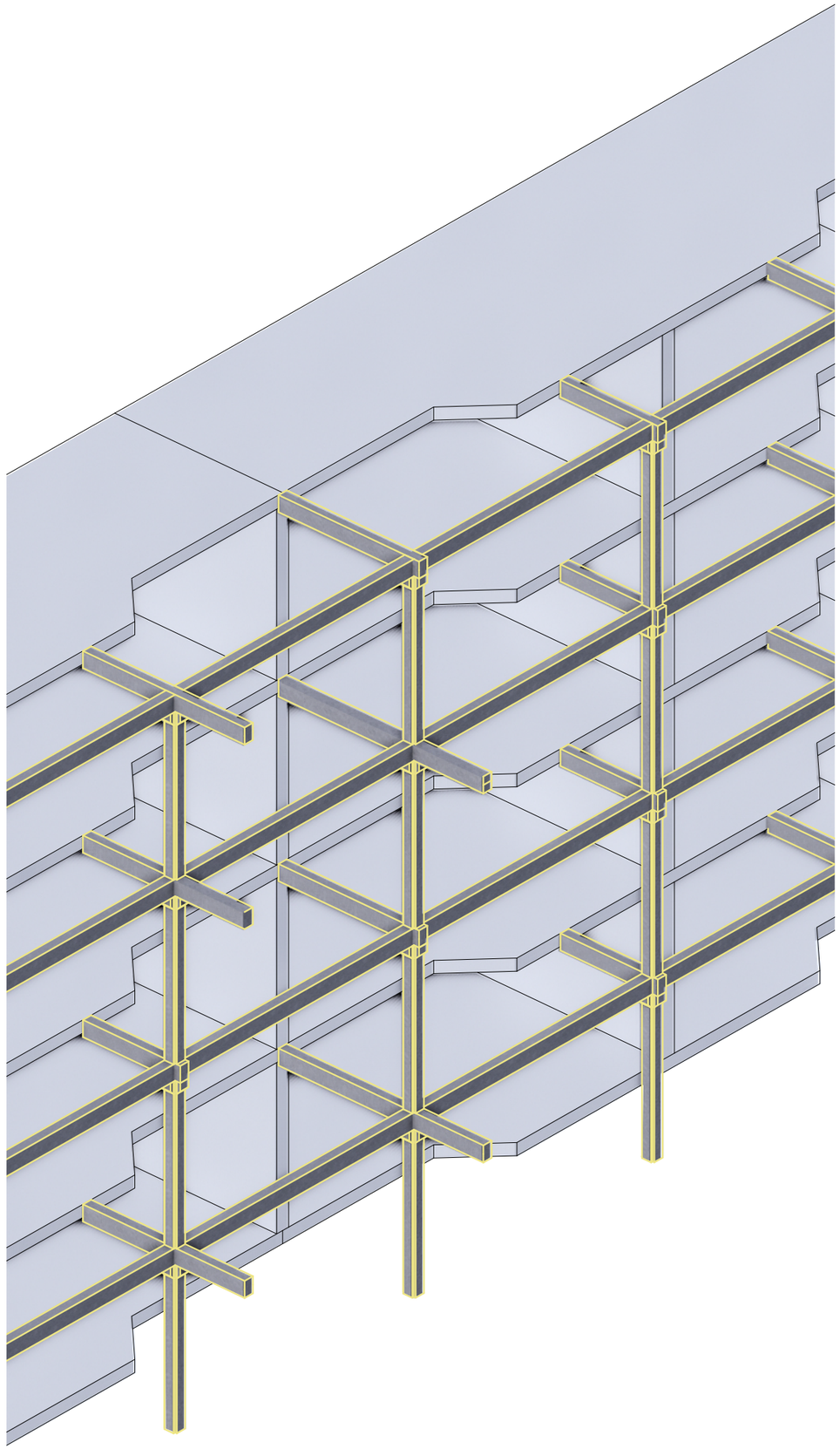

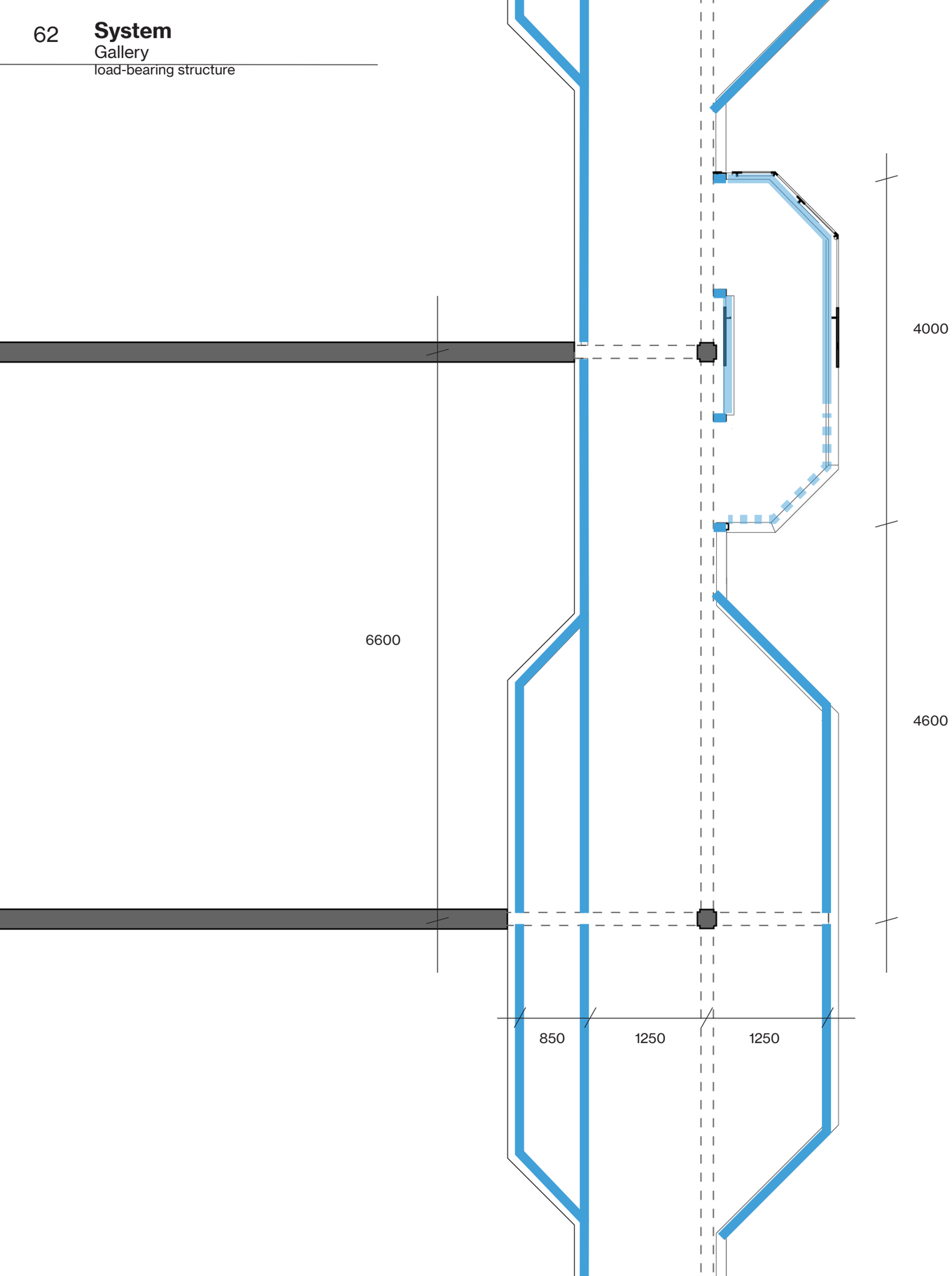
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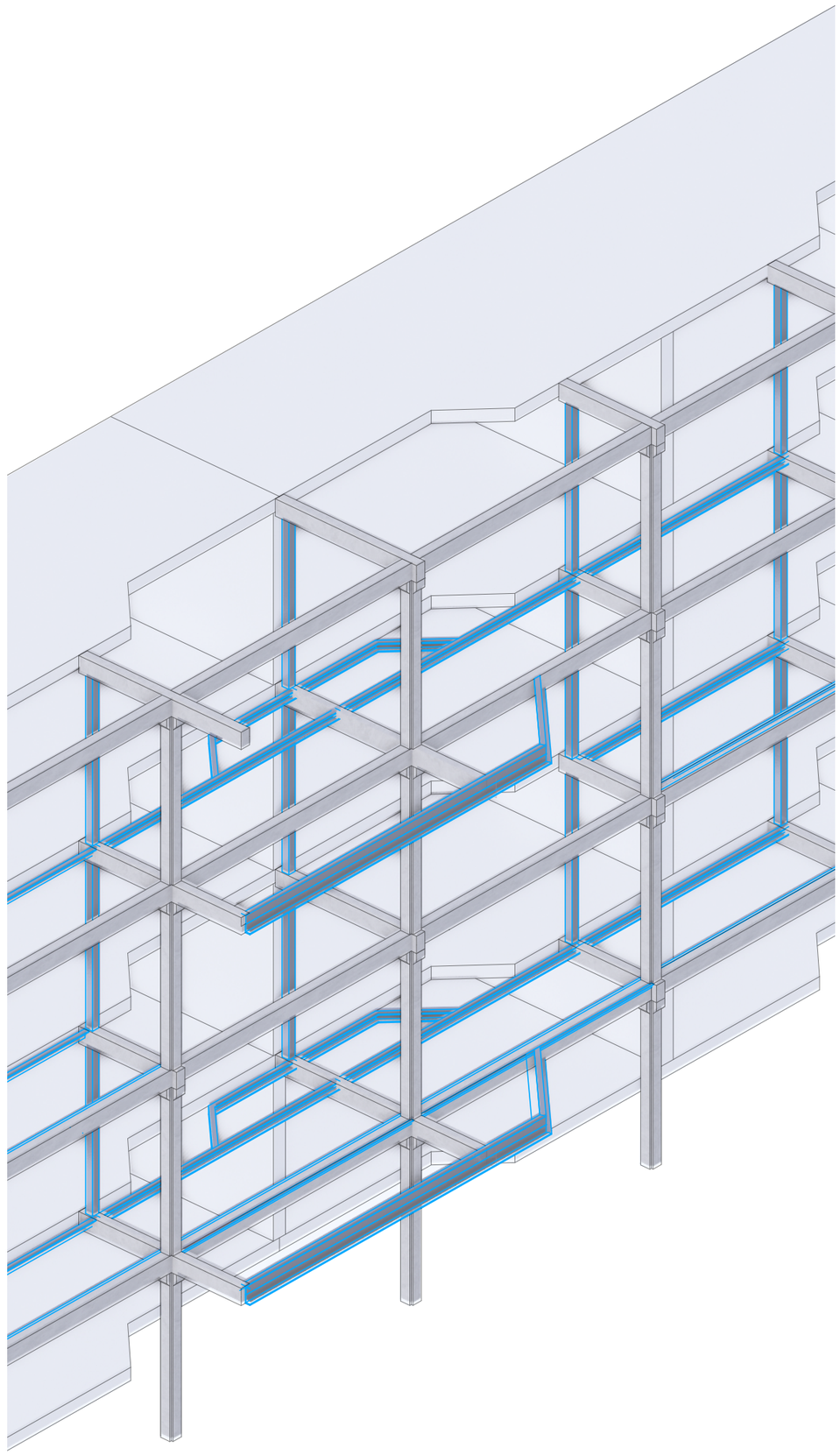

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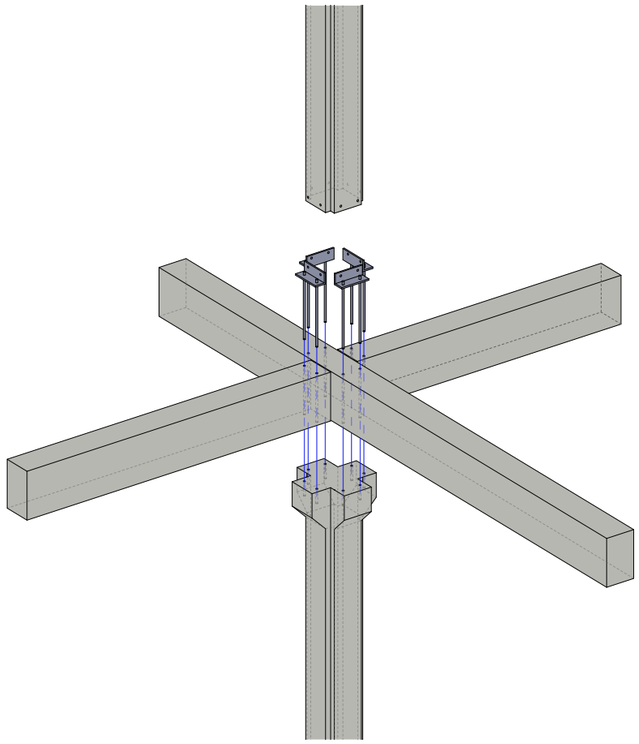

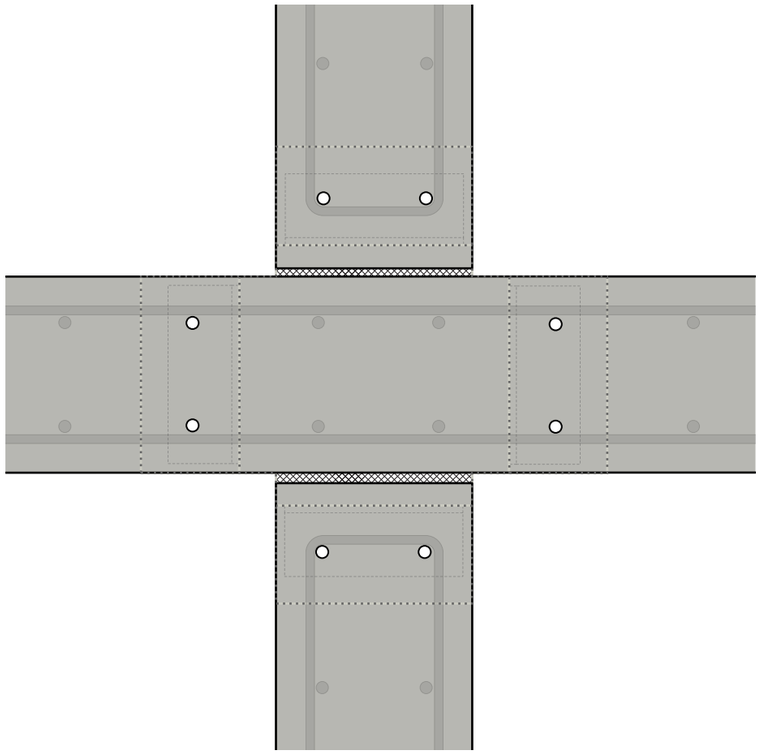

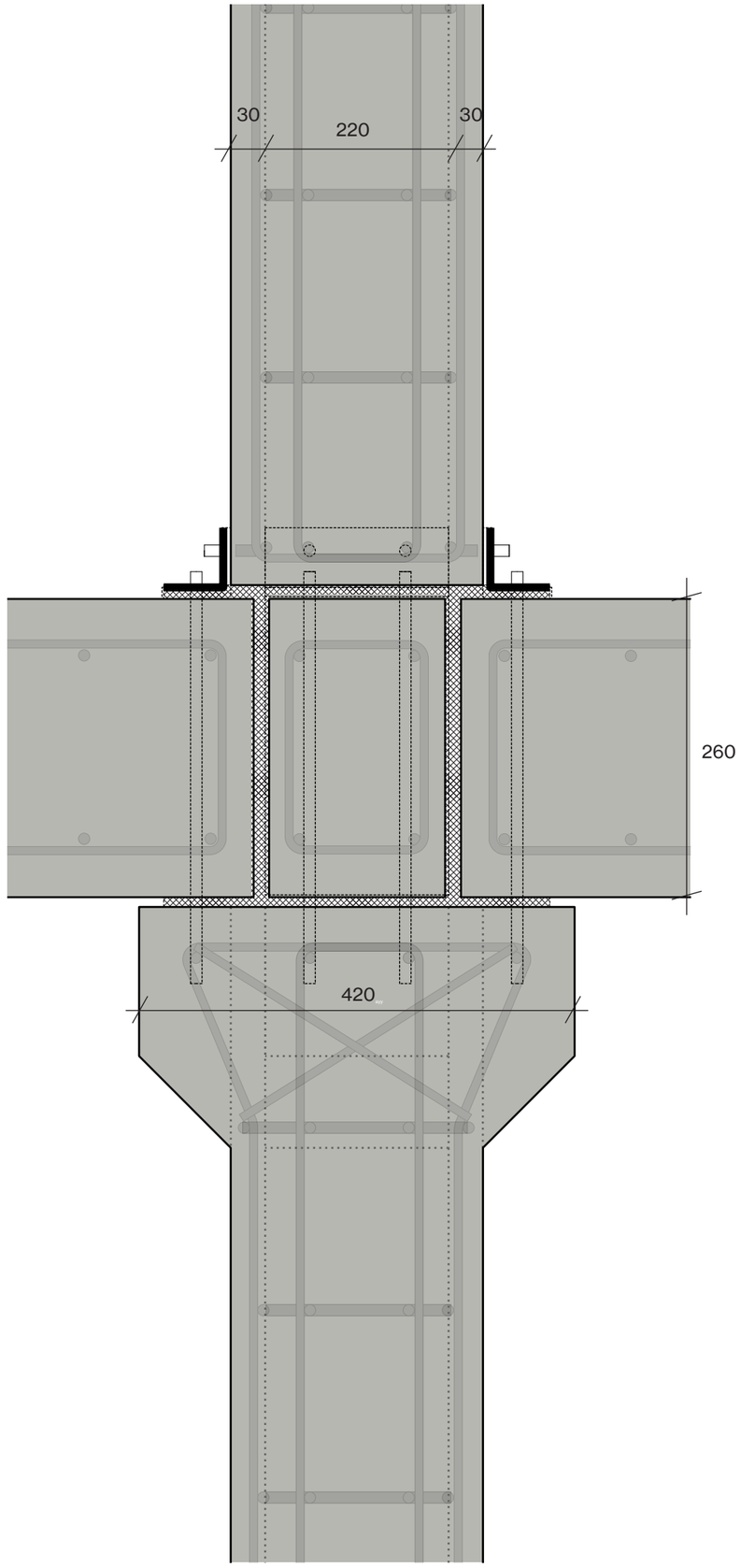

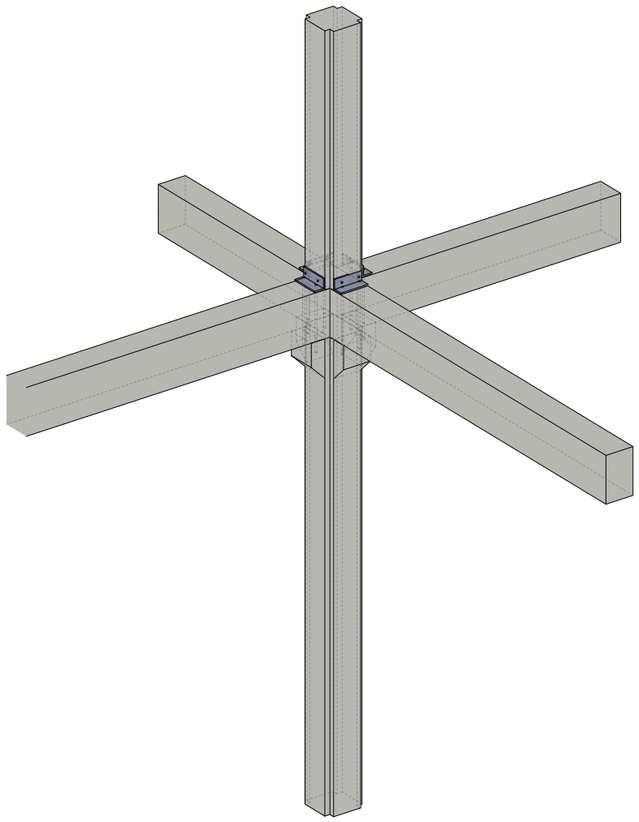

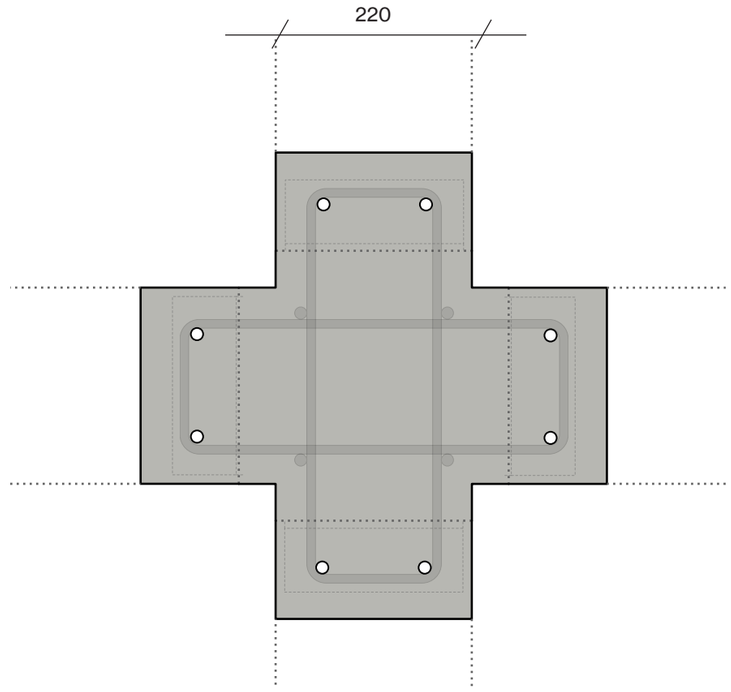

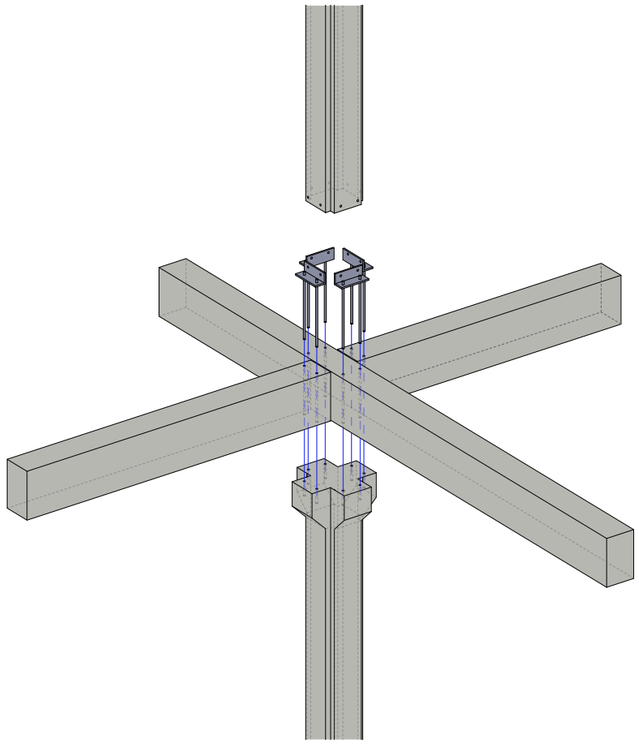

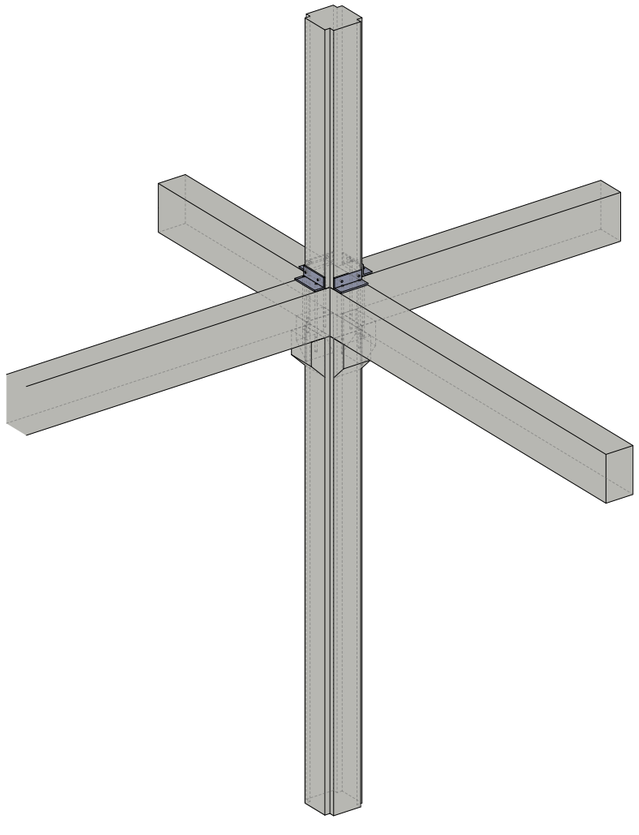

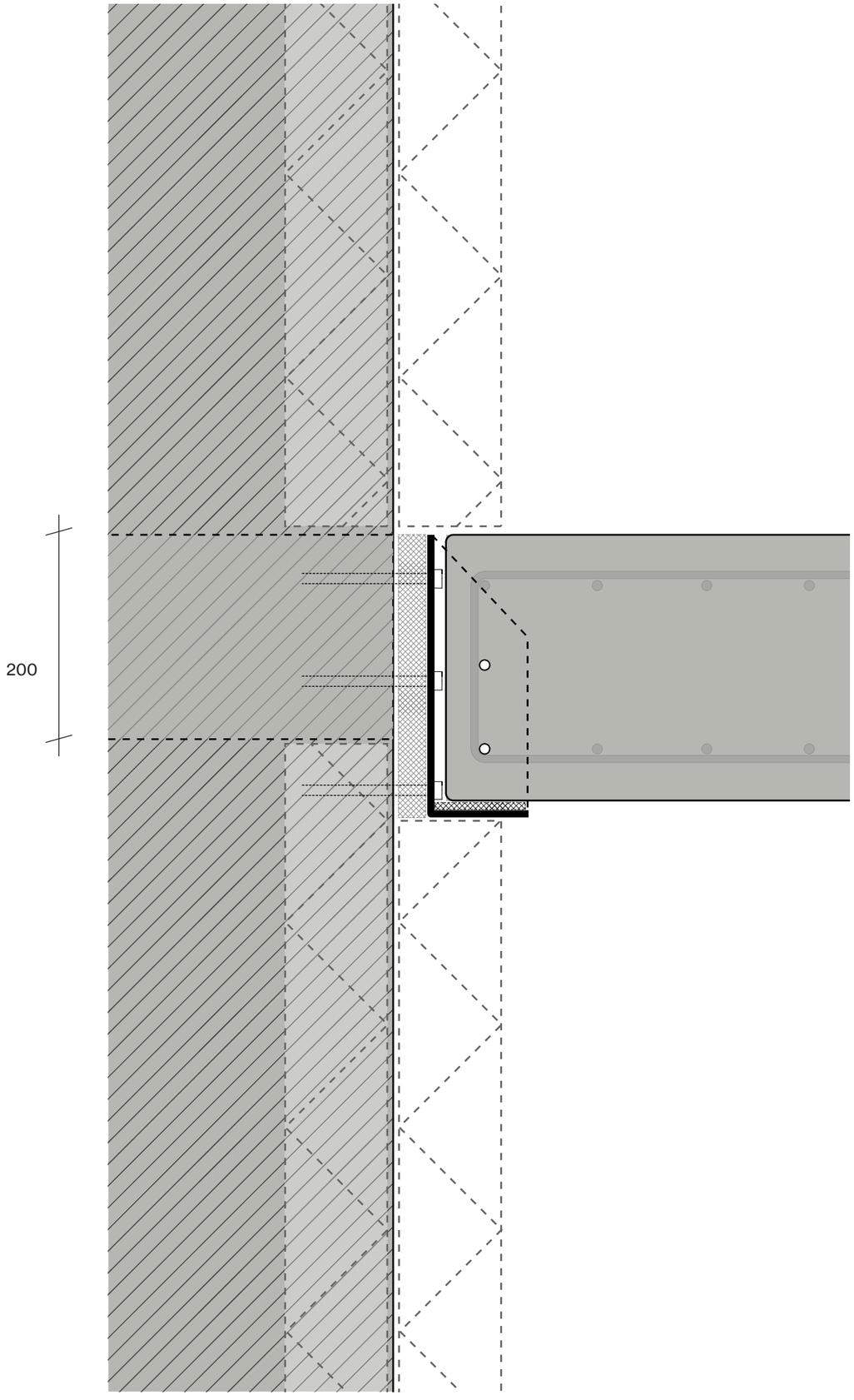
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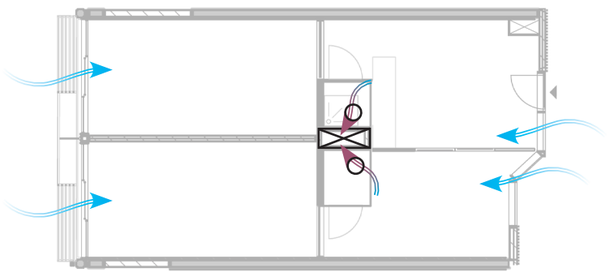
200
260



PV-panels

thermal capture from central ventilation outlet back into heating system loop

fixed sunshade on southwest facade

concrete thermal mass

re-use concrete structure

ventilation
natural inlet
- pre-heated at low temperatures
- automatically regulated
- individual

mechanical outlet
- centralized

floorheating

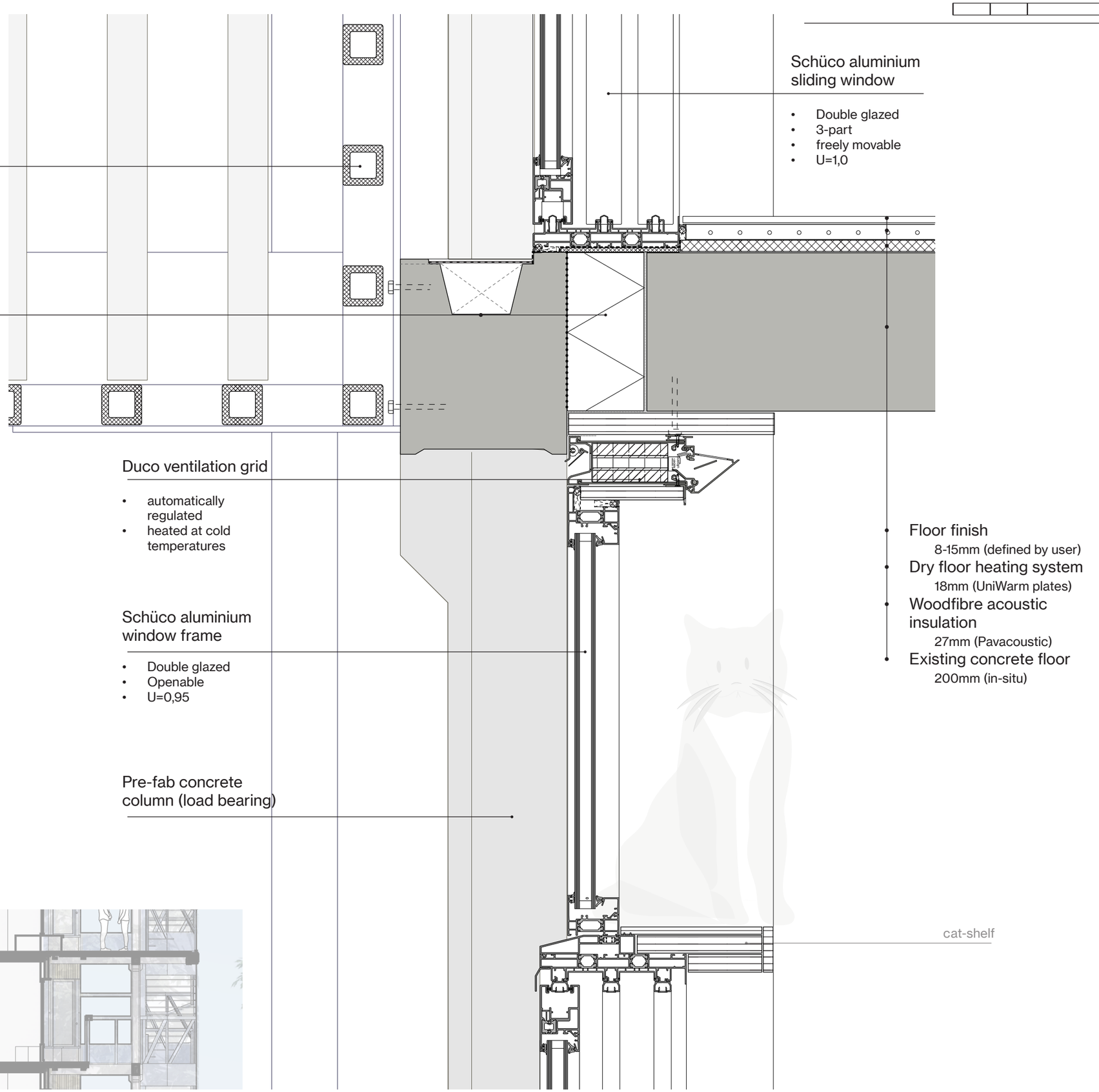
rainwater retention in planters

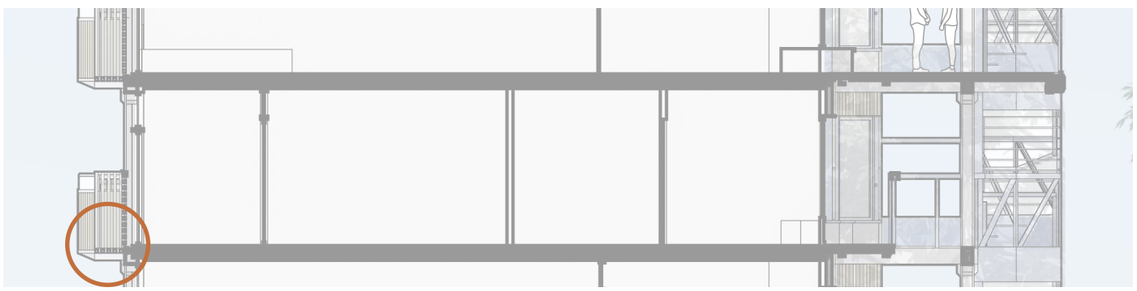
urban farming irrigation

urban heat network

rainwater storage and filtration tank

0 50 100 200mm





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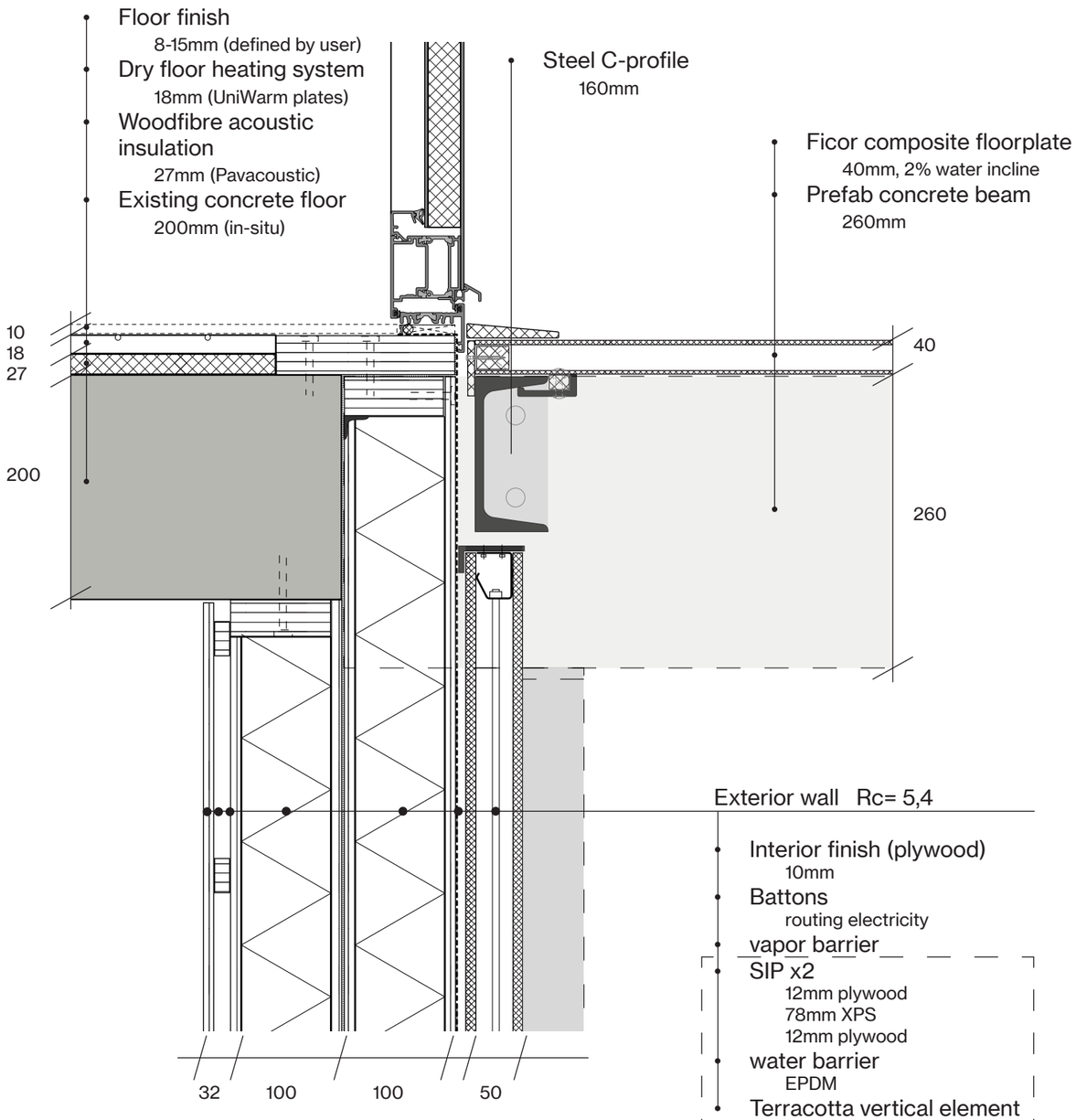

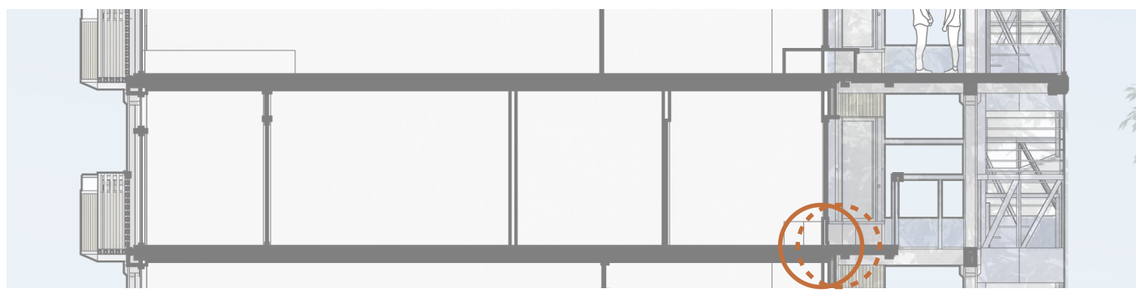

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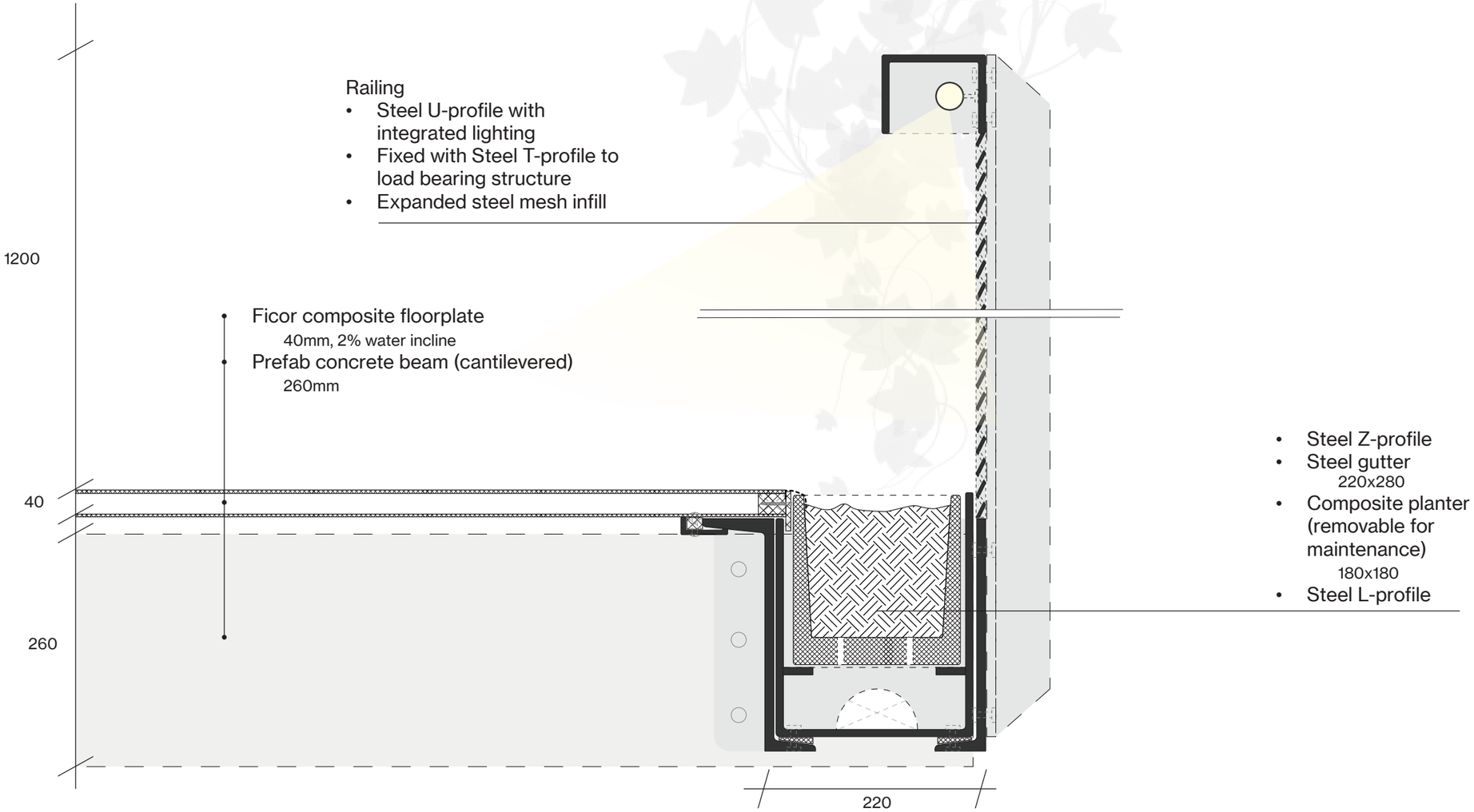
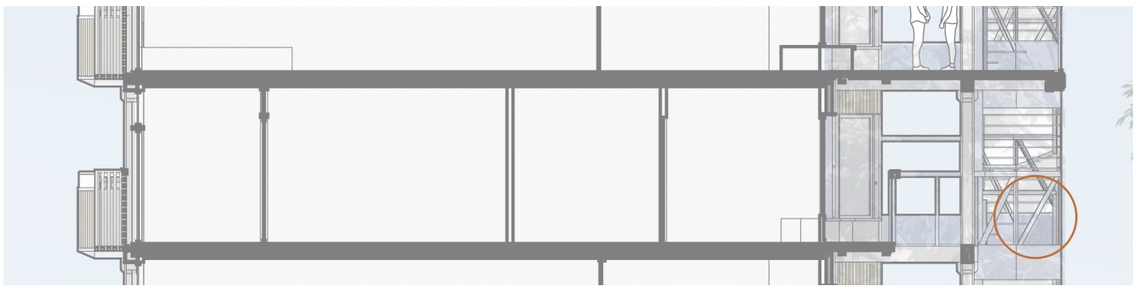
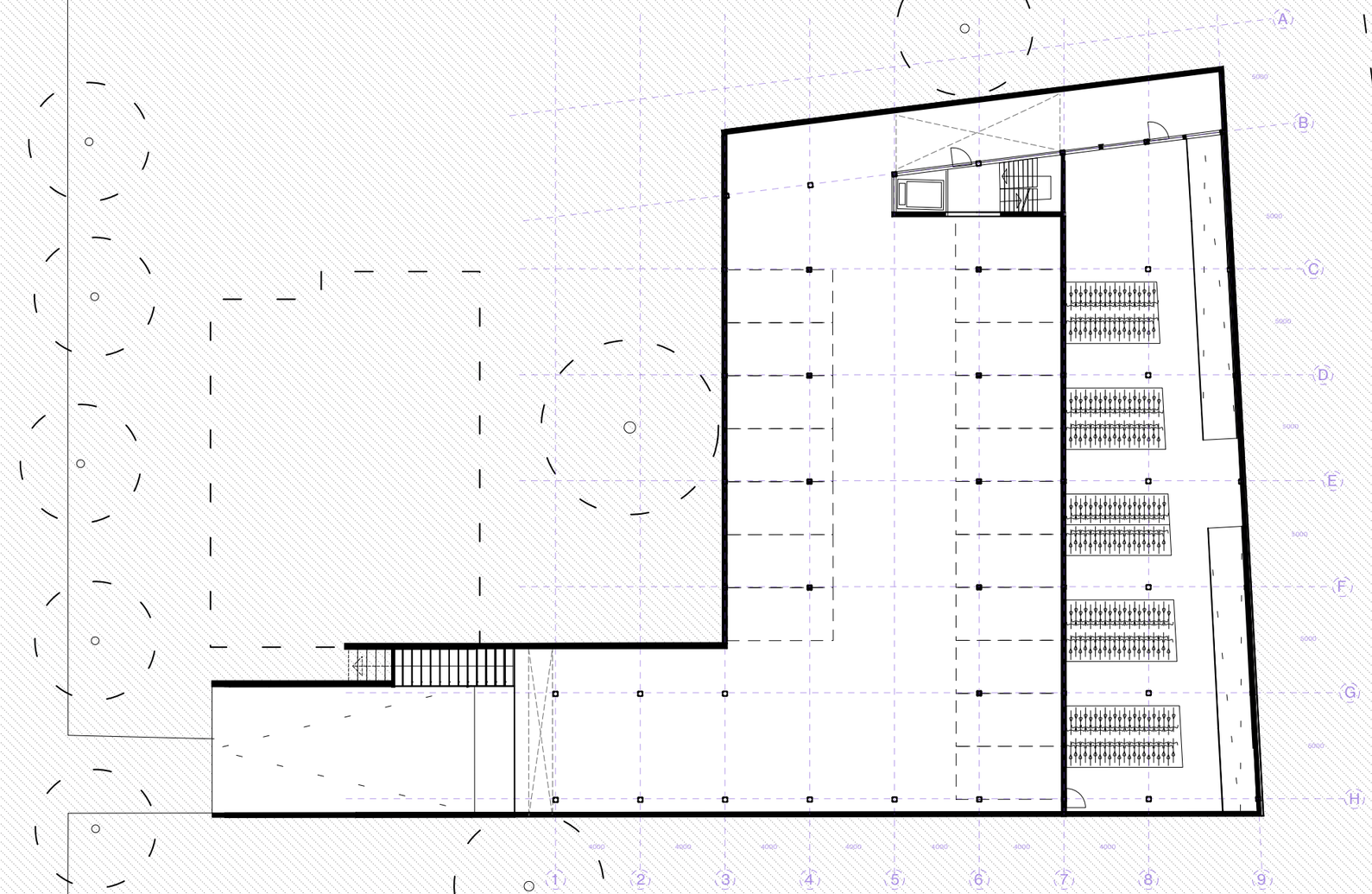




THANK YOU FOR YOUR ATTENTION

Plan
Basement



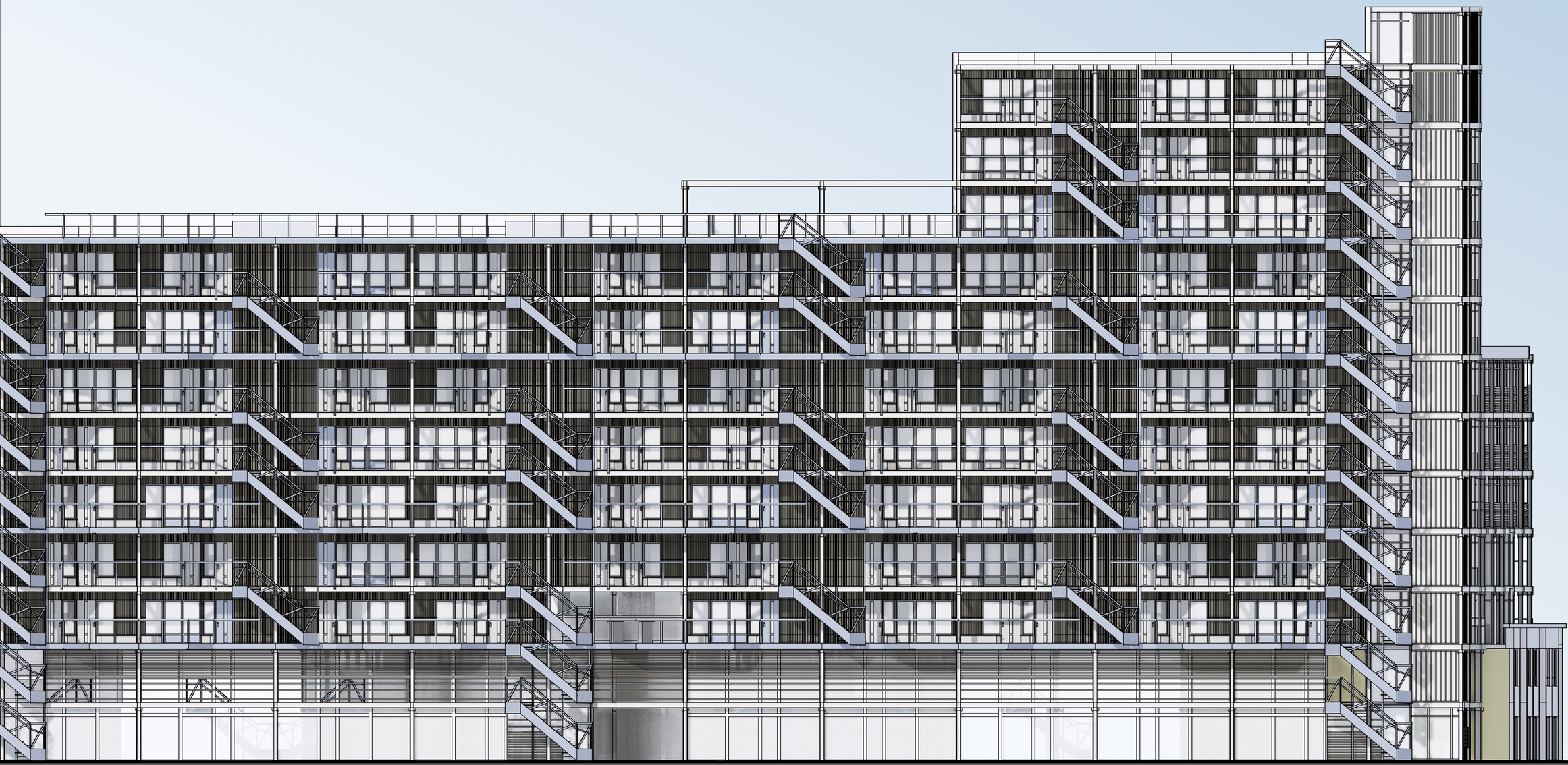
Plan
1st Floor

Plan
3rd Floor

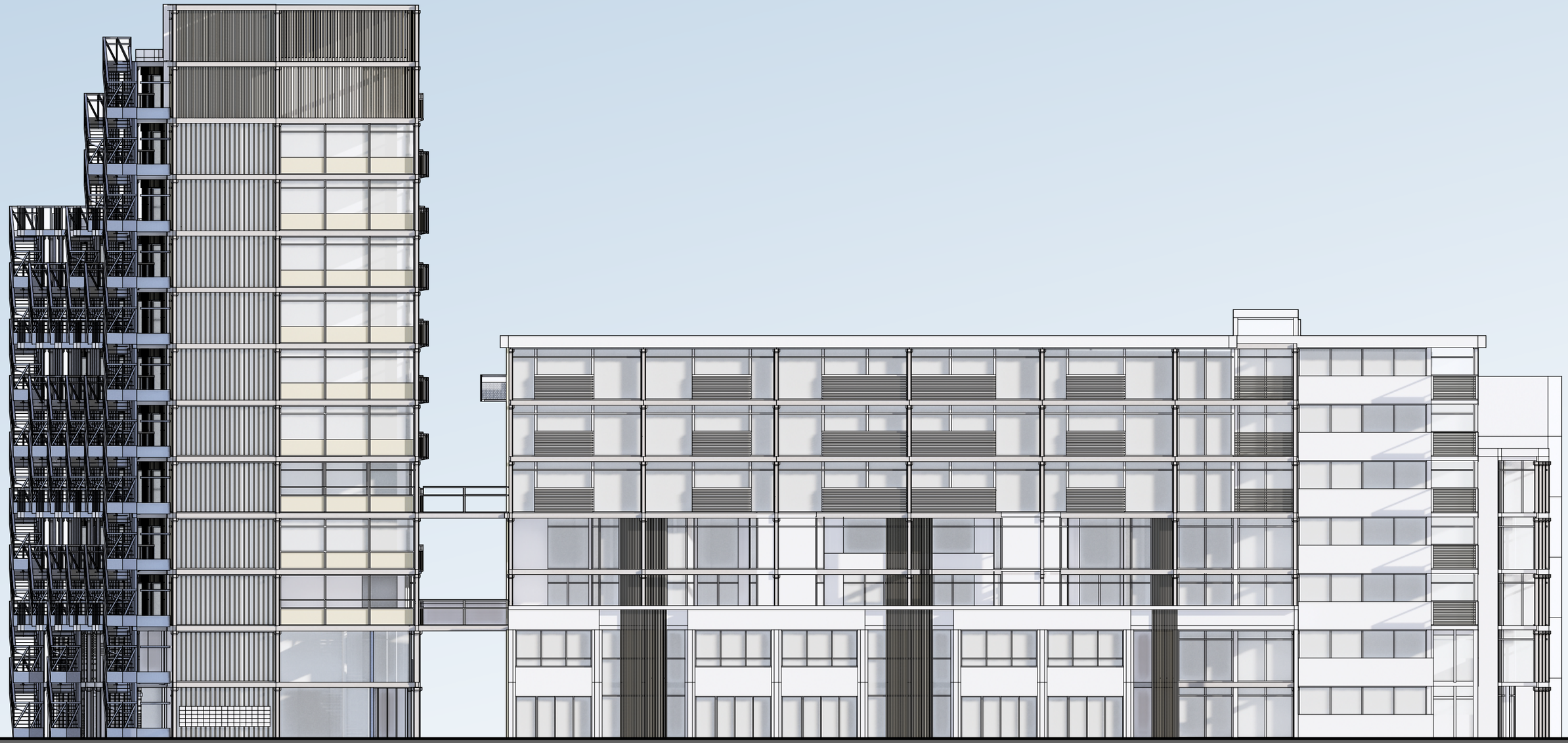
Plan
4th Floor

Plan
5th Floor

Elevation
East

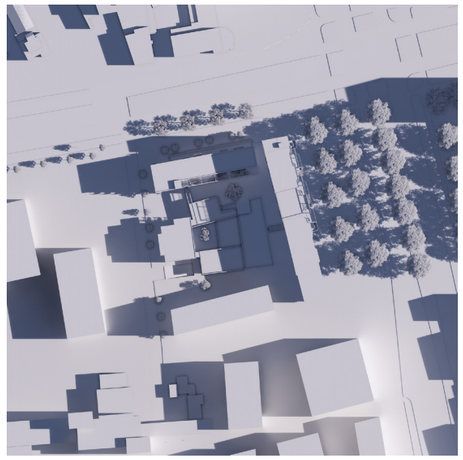
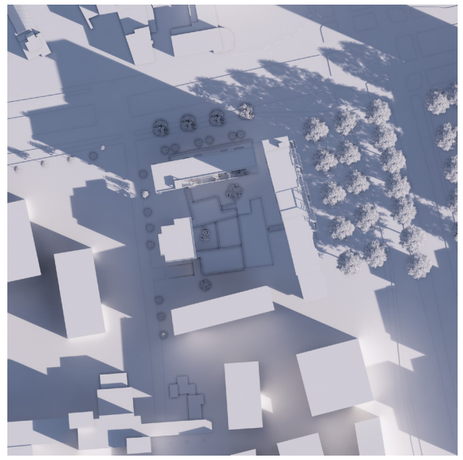
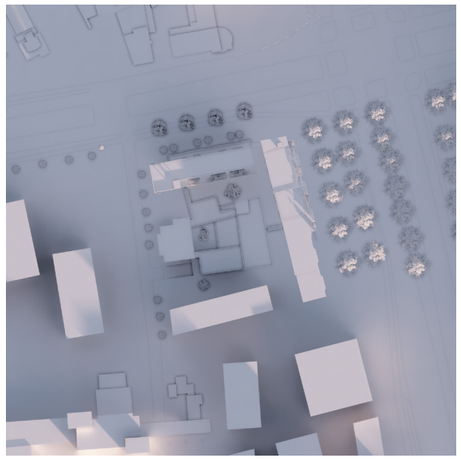


Elevation
North



summer **autumn/spring** **winter**

9:00

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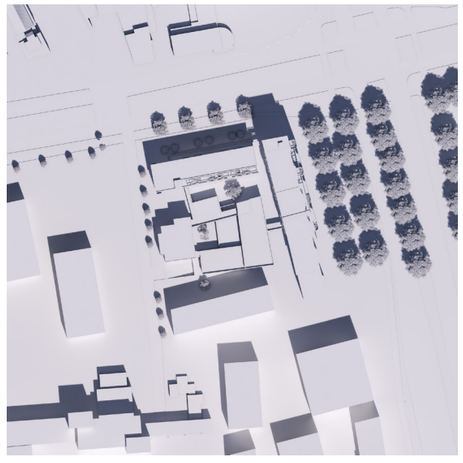
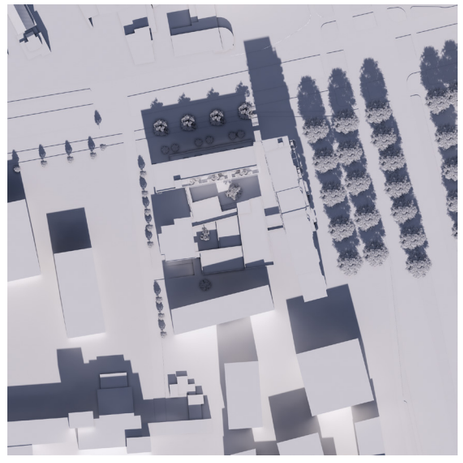
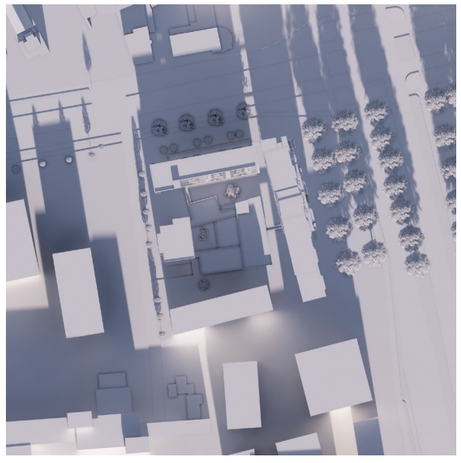
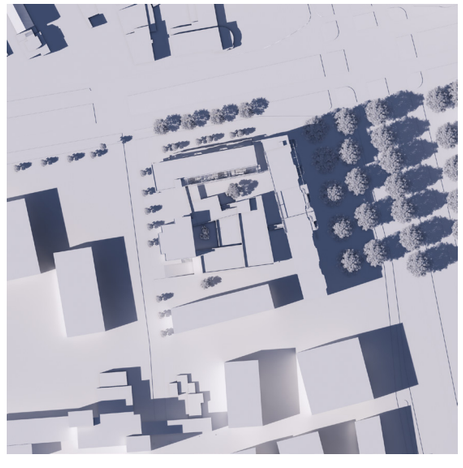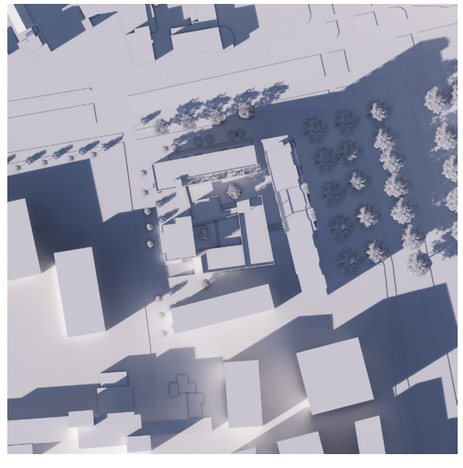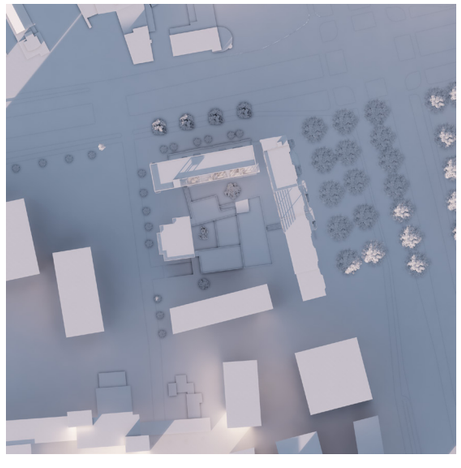
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