Inhabiting the uninhabitable

life, work and culture in Anderlecht

Daiana Ristanova
Paraskevi Vryza

Urban Architecture graduation studio, Spolia
08 July 2020



Marolles, Brussels



Marolles, Brussels



Place du Conseil, Cureghem, Brussels



Gare du Midi, Cureghem, Brussels



Cureghem, Brussels



Cureghem, Brussels

Research questions

How can we inspire a stronger sense of community and self-growth between the youth population of a culturally heterogeneous society, such as that of Anderlecht?

What is the role of the productivity within the city? How can it coexist with housing and which should be the boundaries between the two?

Table of contents

0. Anderlecht

1. Site

3. Urban design

4. Les Goujons

5. Rotor

6. Cultural centre

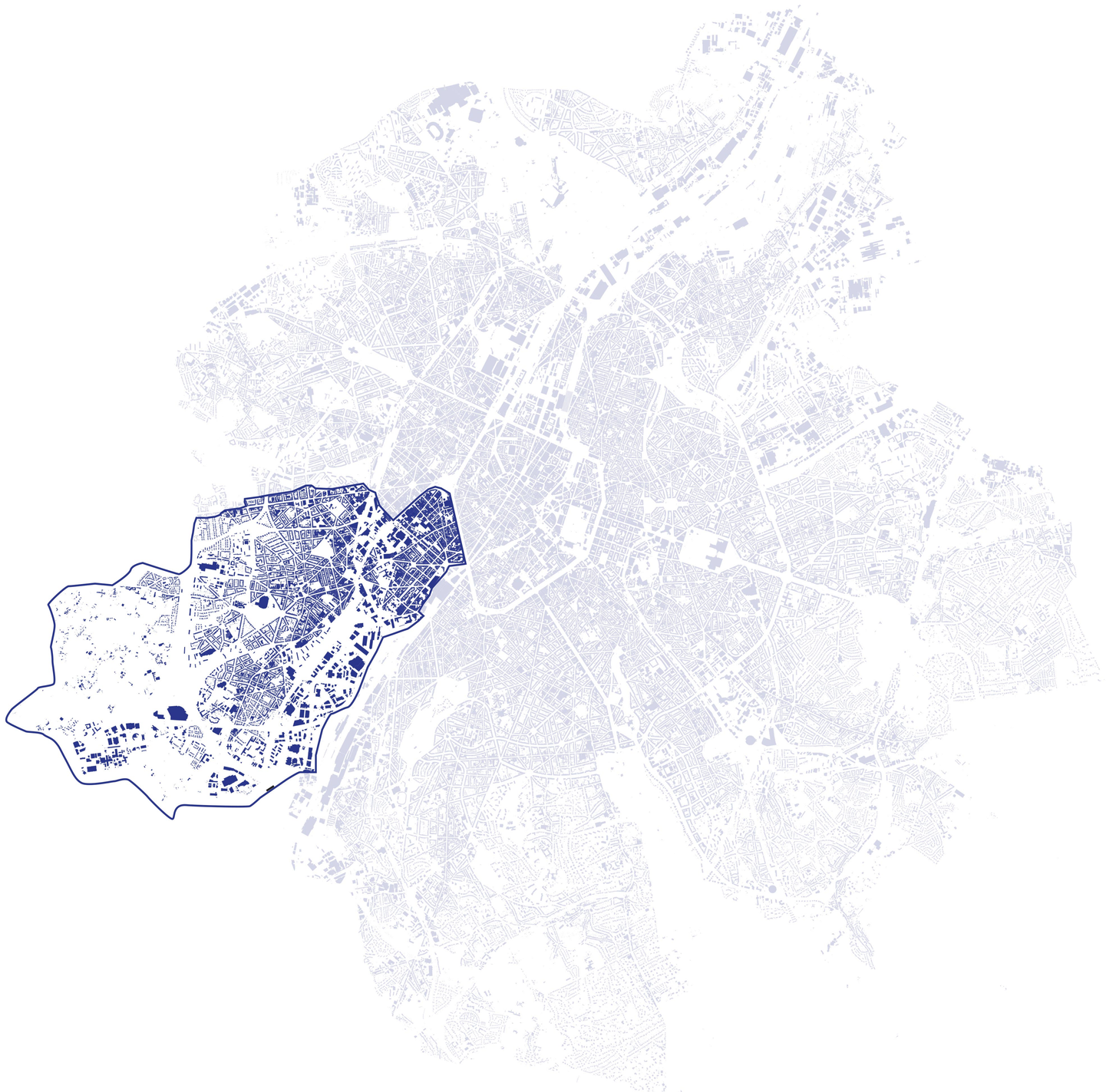
7. Working and Living develpment

8. Conclusions

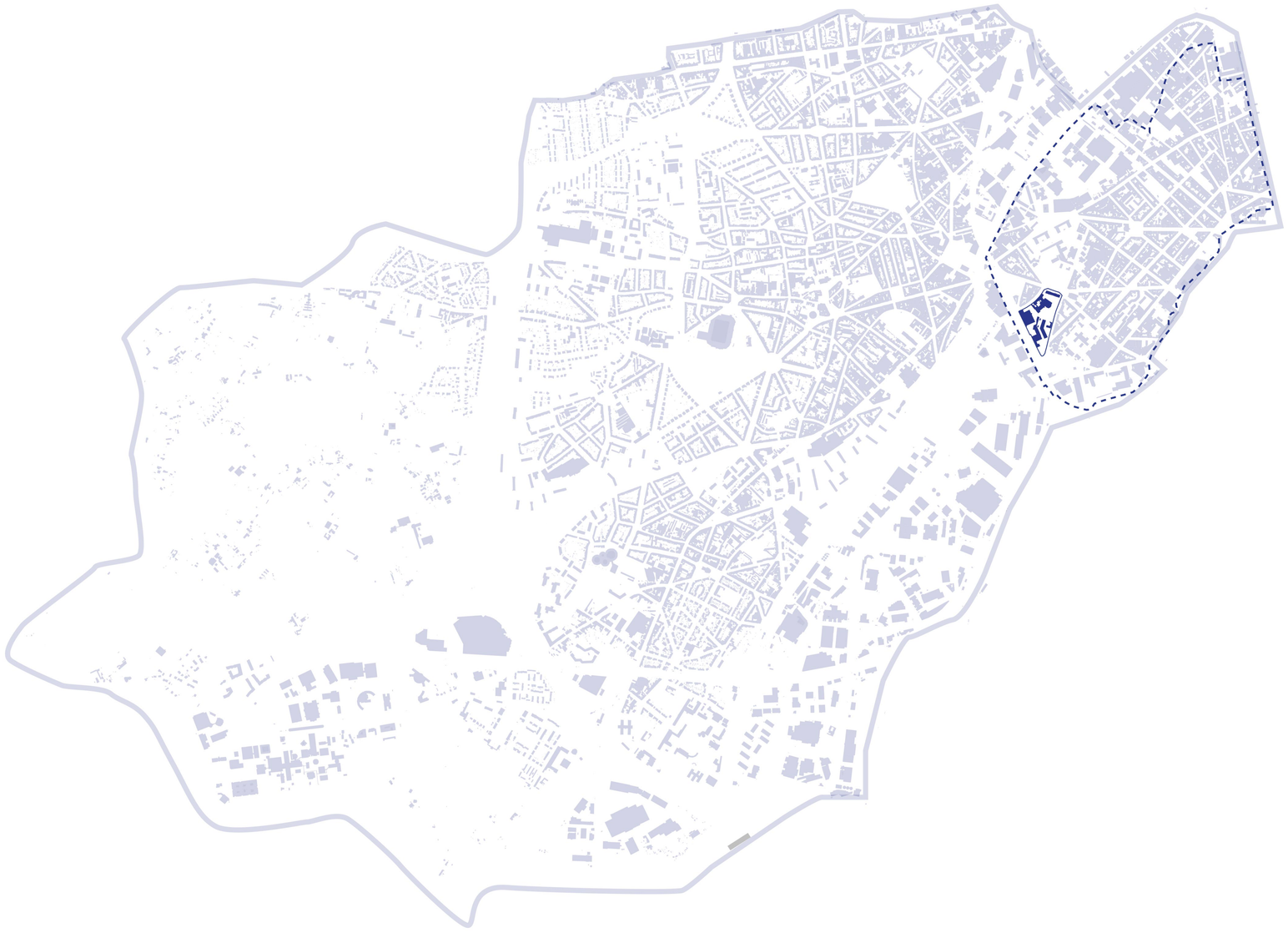
0.

Anderlecht

Brussels



Anderlecht



Multicultural city



Foodmet, Anderlecht, Brussels



Abbattoir market, Anderlecht, Brussels

Multicultural city



Bruxitizen 2016, “identities under control?” flyer



Bruxitizen 2016, “identities under control?” debate

City of production





Construction of Charleroi Canal



Independence & Industrialization



La Senne





Covering of La Senne

Industrial Development Plan



Establishment of Freight Station



Modernazation of Charleroi Canal



International Investment



Service Sector & Housing Pressure



Productive City



Decline of Charleroi Canal



1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030

PRE-INDUSTRY

INDUSTRIALIZATION & PROSPERITY

DEINDUSTRIALIZATION & DECLINE

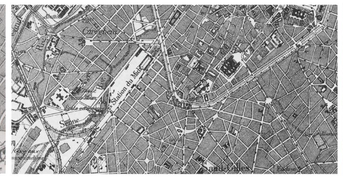
REVITALIZATION



Map of Brussels, 1820s



Map of Brussels, 1850s



Map of Brussels, 1930s



Highly Mixed Neighborhood



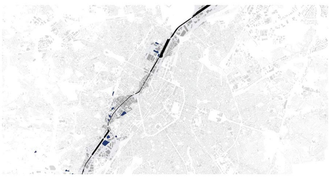
Replacement of Industrial area



Transformation of Existing Industrial Building



ZEMU, 2010s



Canal Plan, 2010s

City of production



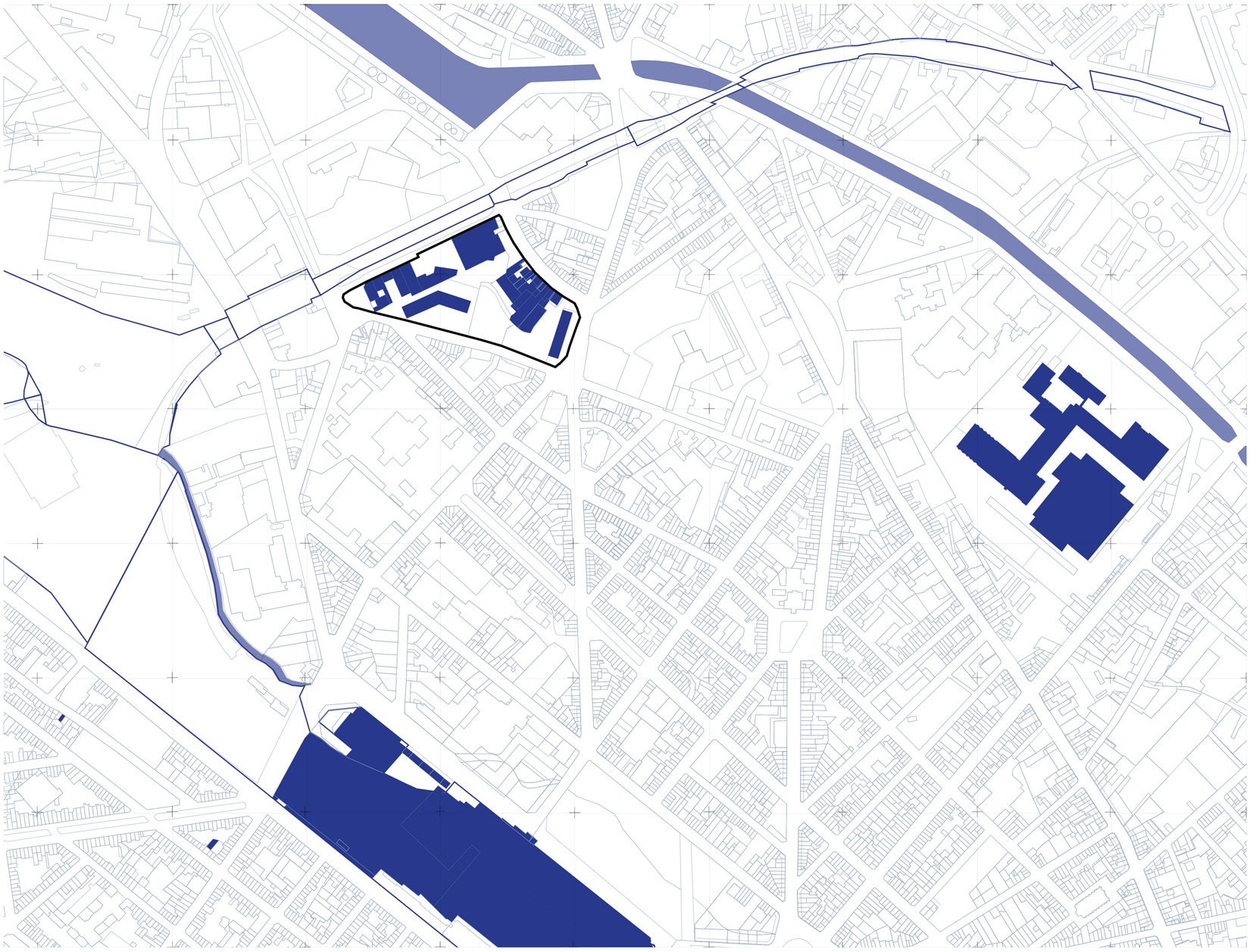
COOP, former Moulart flour mill, 1903, Anderlecht, Brussels

Industry



1.

the site





NONE



ENCLOSMENT



INSERTION



PERMEATION



JUXTAPOSITION



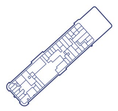
SEPARATION



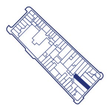
DOMINATION



INDEPENDENCE

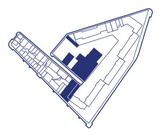








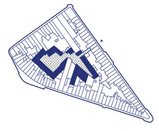








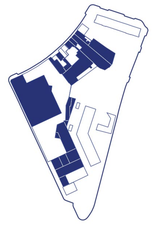














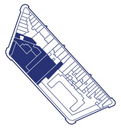


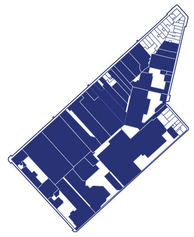










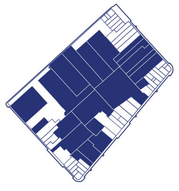


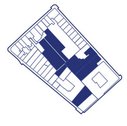












Mixed - use

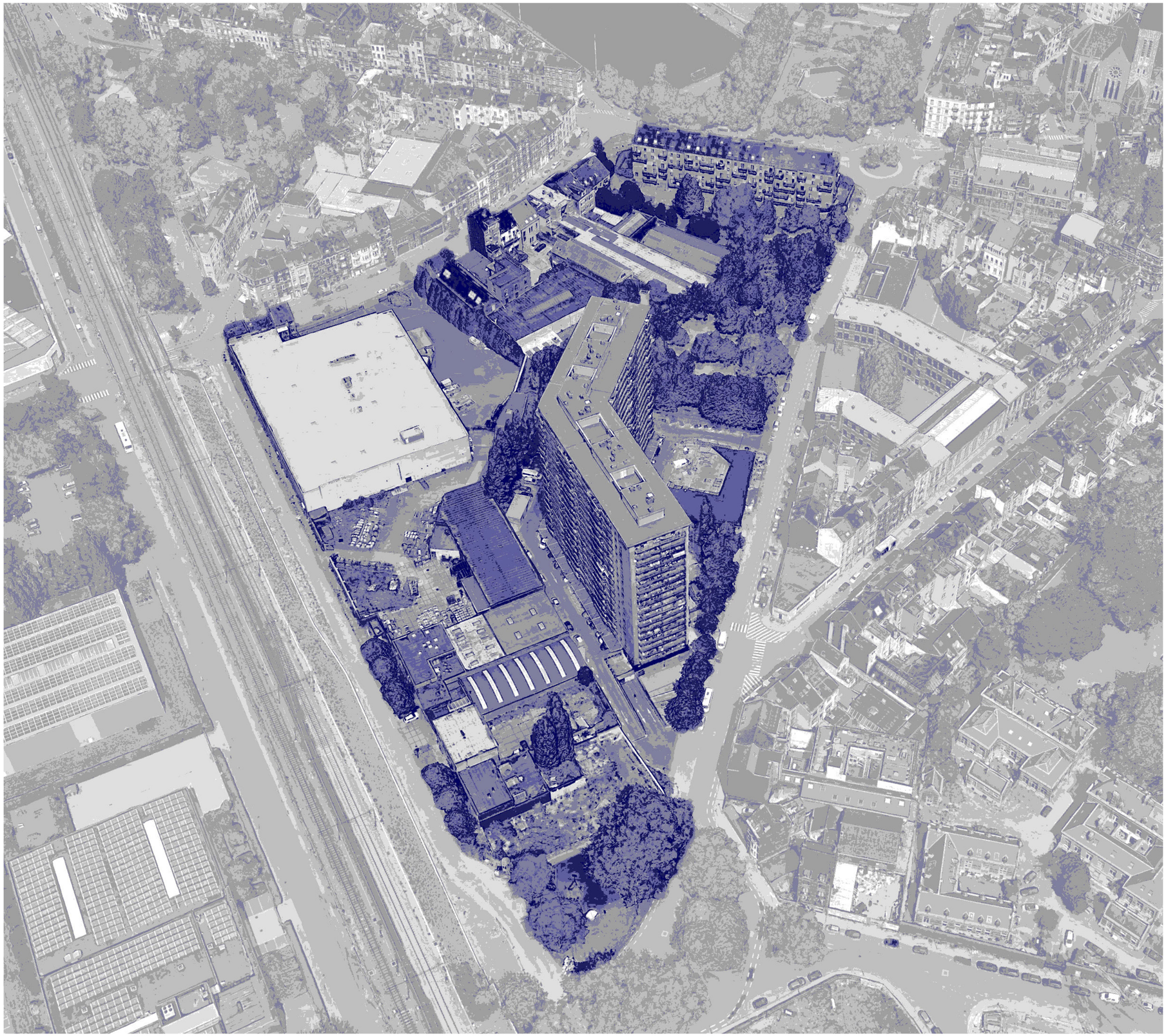
Belgian row houses

Rotor

industrial building

Small production

industrial buildings



Housing

new development

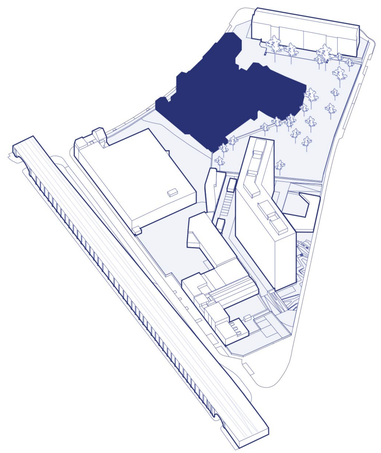
Park

Les Goujons

social housing

Mixed use

belgian row houses



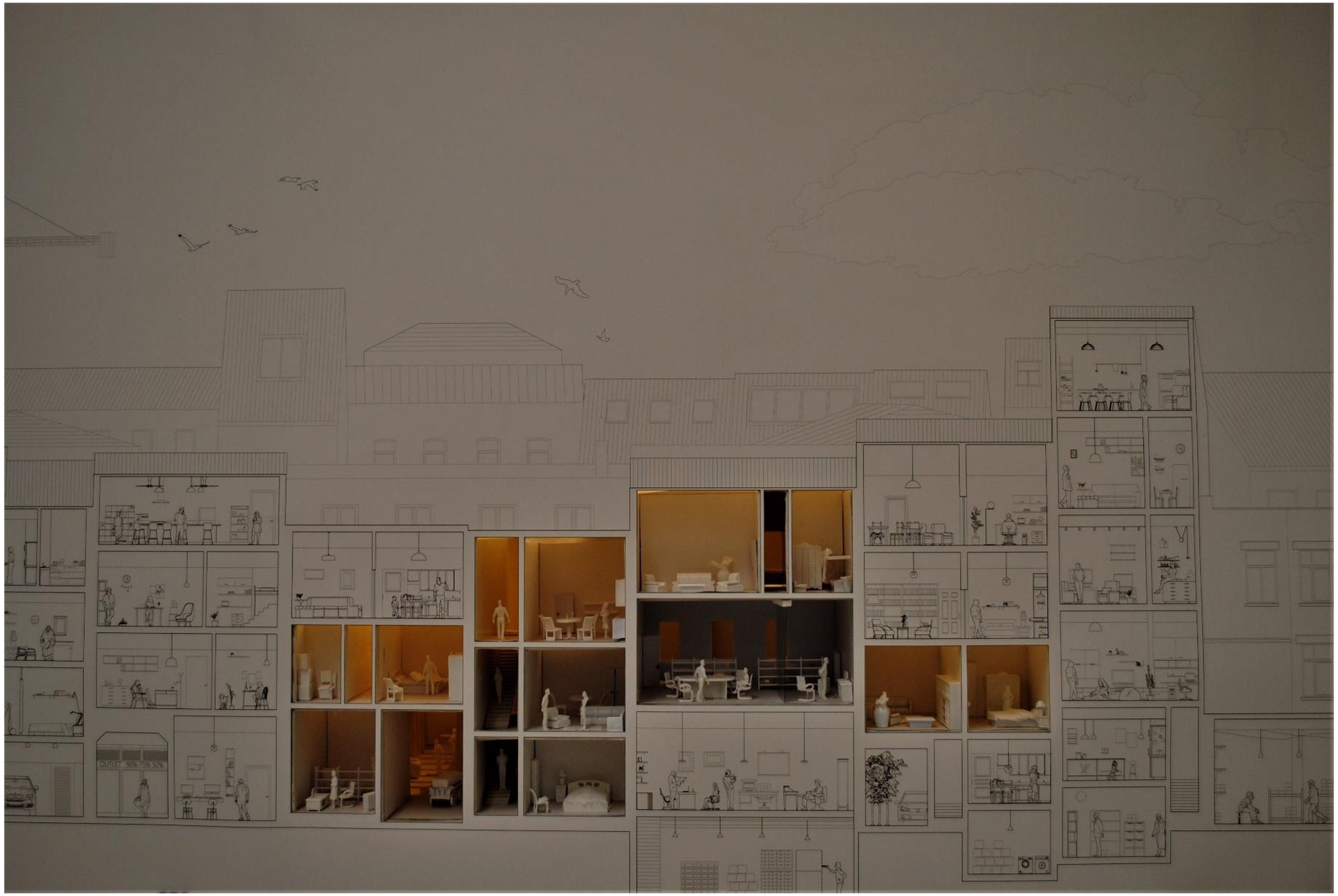








Rue de Bassins , Anderlecht, Brussels



P1 exhibition, photos © Leeke Reinders

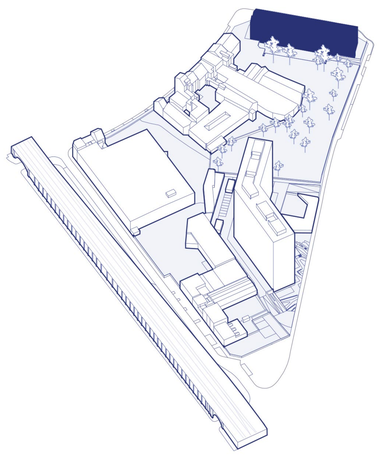




P1 exhibition, photos © Leeke Reinders

Housing

new development



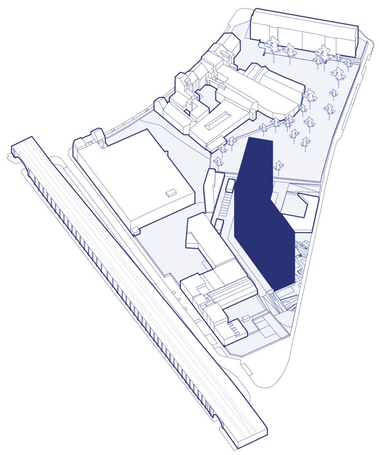




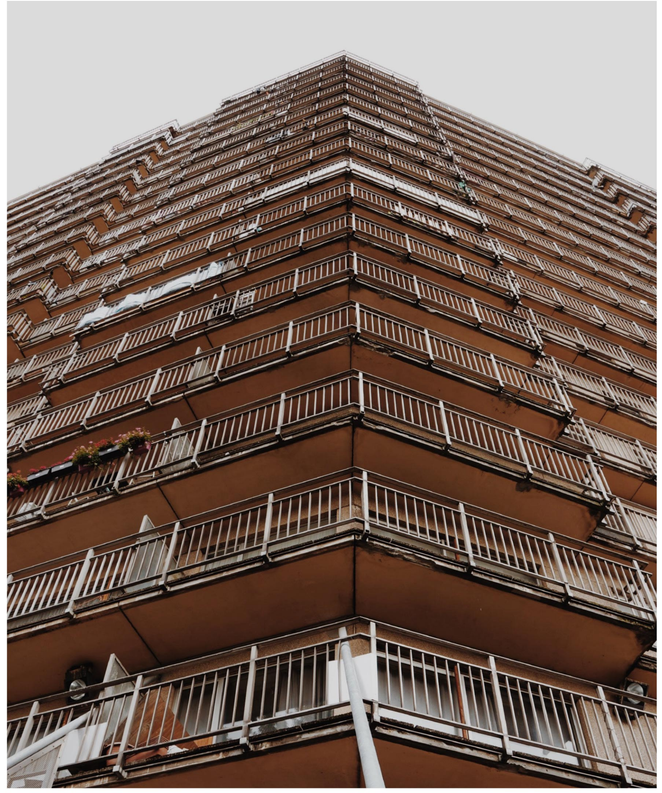


Les Goujons

social housing

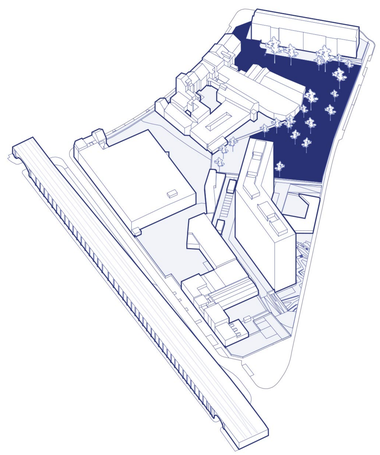








Park

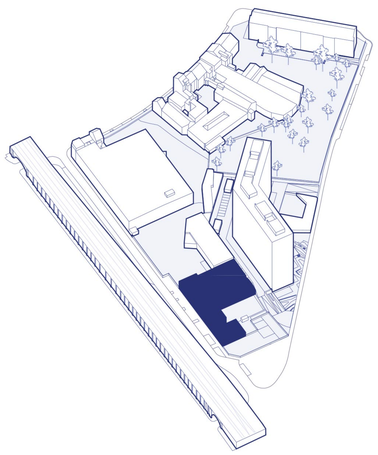






Small production

industrial buildings

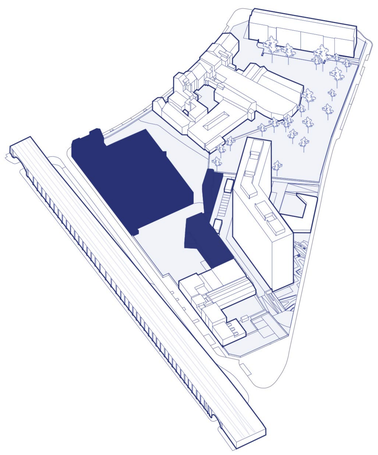






Rotor

industrial building



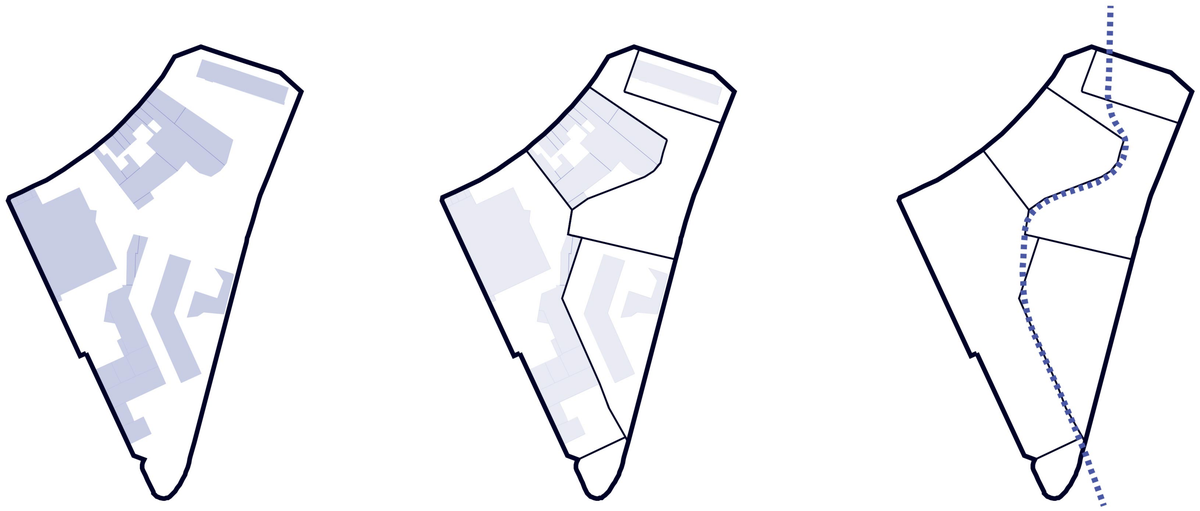






Site

fragmentation



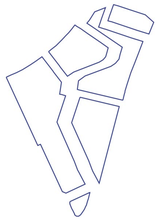
site

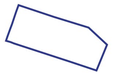
fragmentation

trace of the Senne

Site

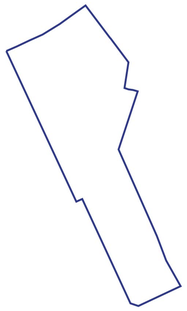
fragmentation





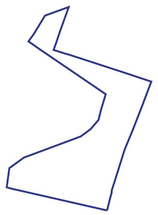
Residential development





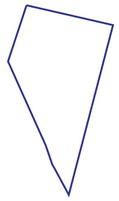
Productivity





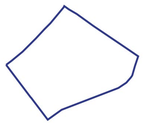
Park





Social Housing





Mixed - use

Belgian row-houses





Park

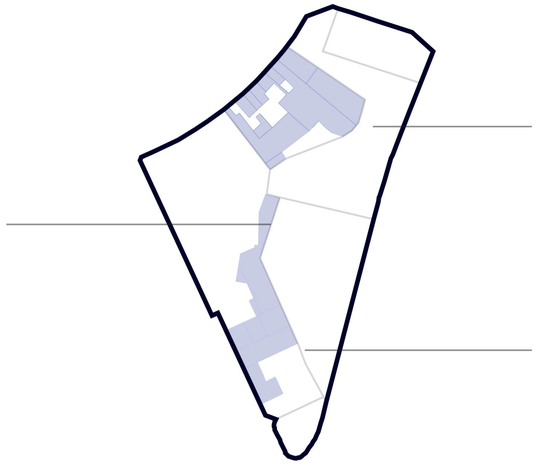


Site

boundaries



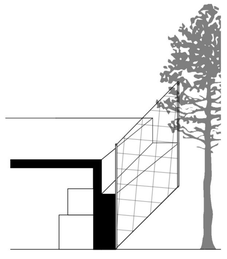


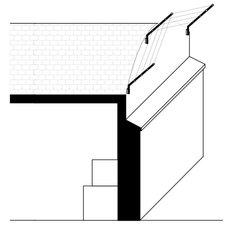






buildings as walls



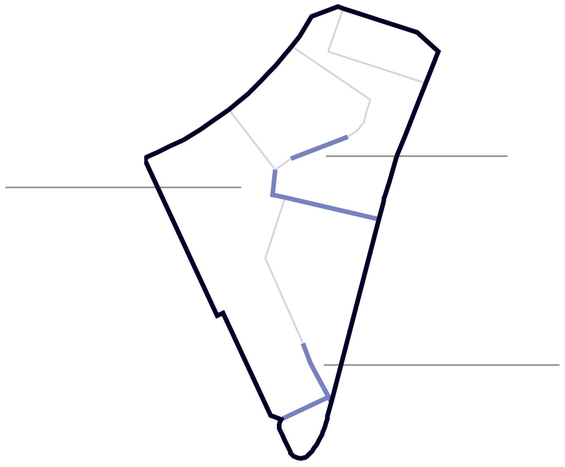


Site

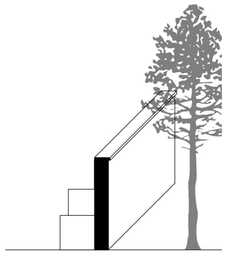
boundaries





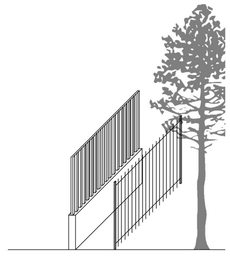


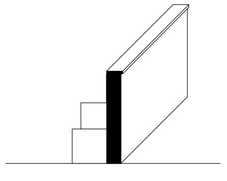






fences and walls





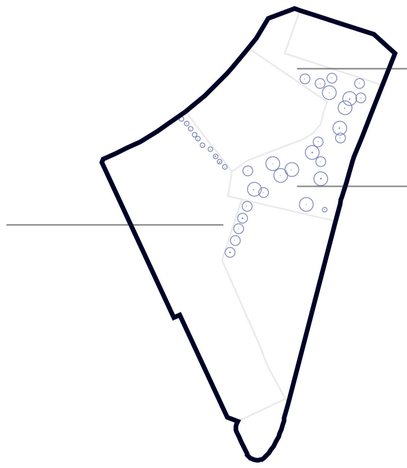
Site

boundaries









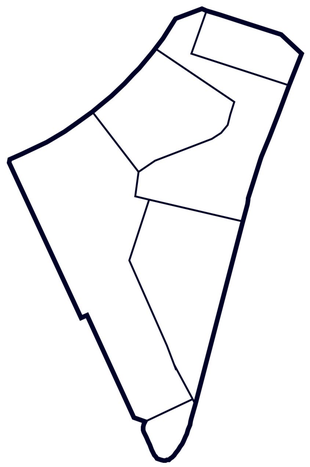




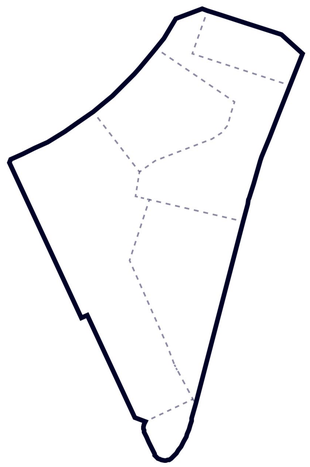
green

Site

note of interaction



strong boundaries



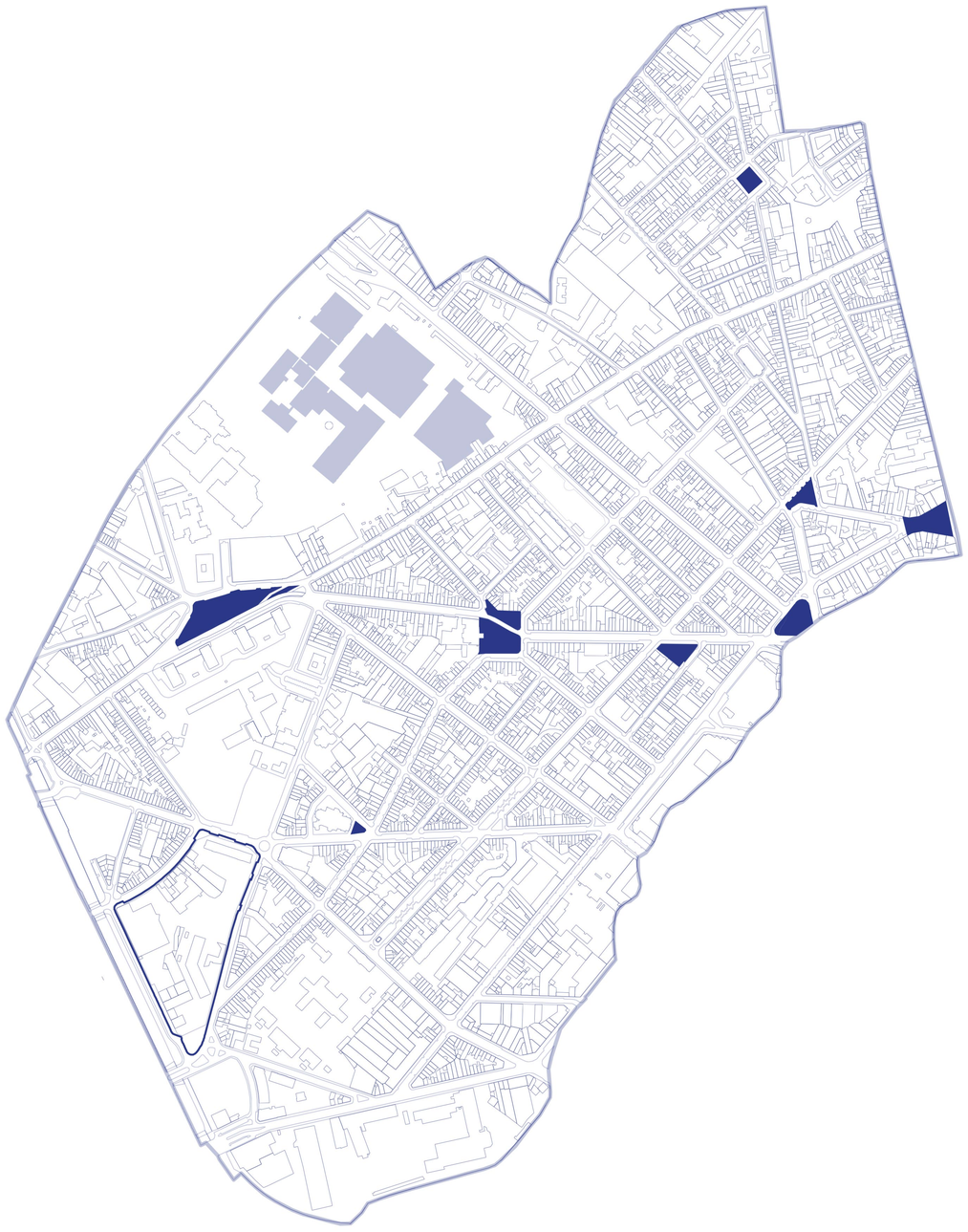
permeable boundaries



node of interaction

Cureghem

squares

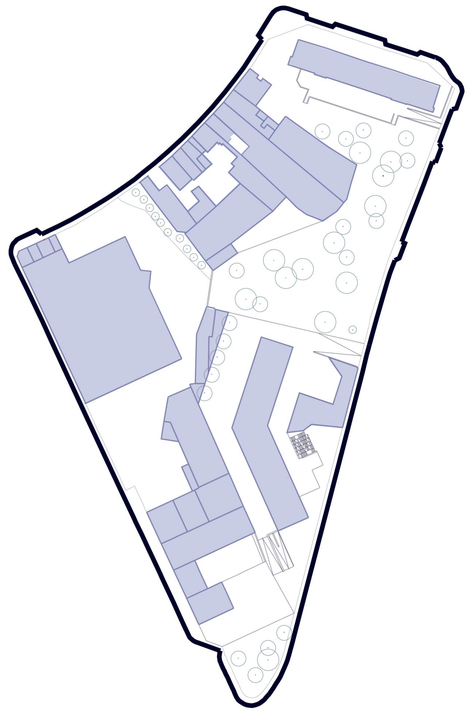


2.

urban design

Site

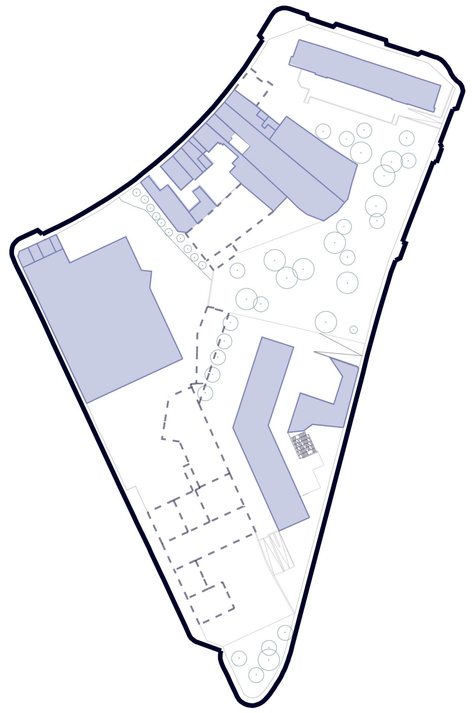
masterplan evolution



existing

Site

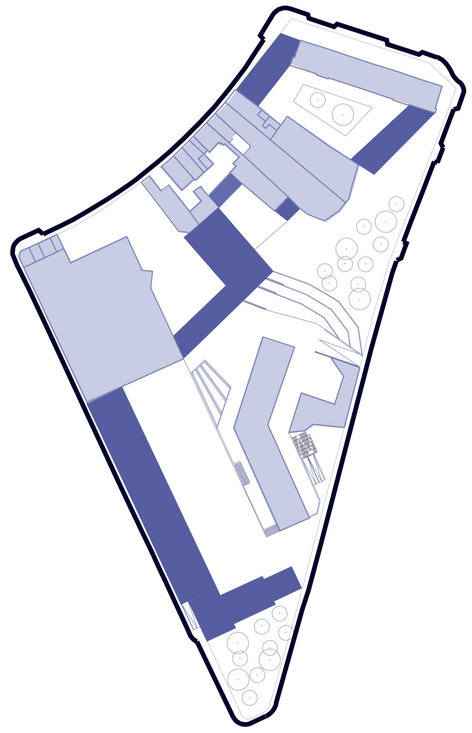
masterplan evolution



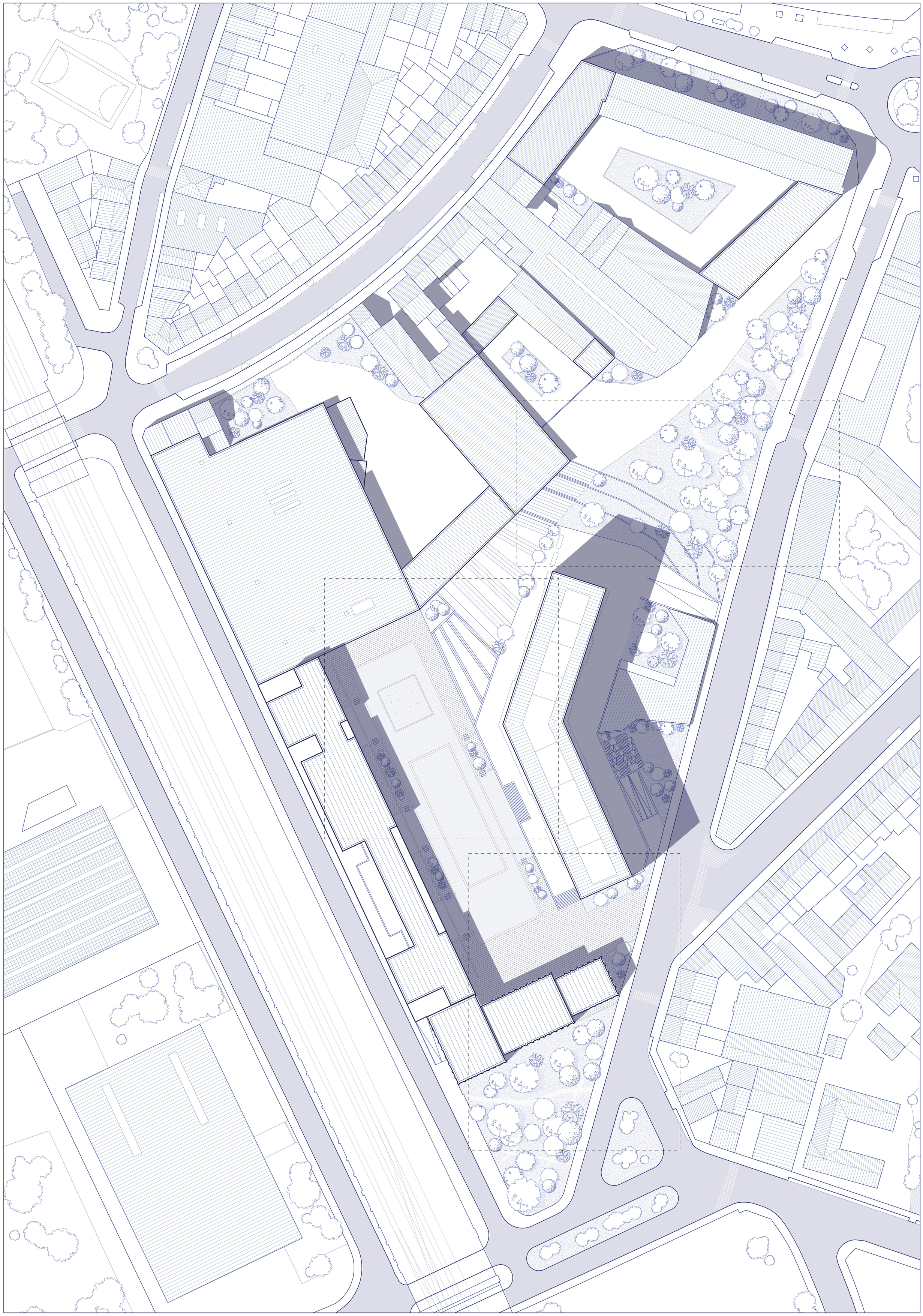
proposed demolitions

Site

masterplan evolution

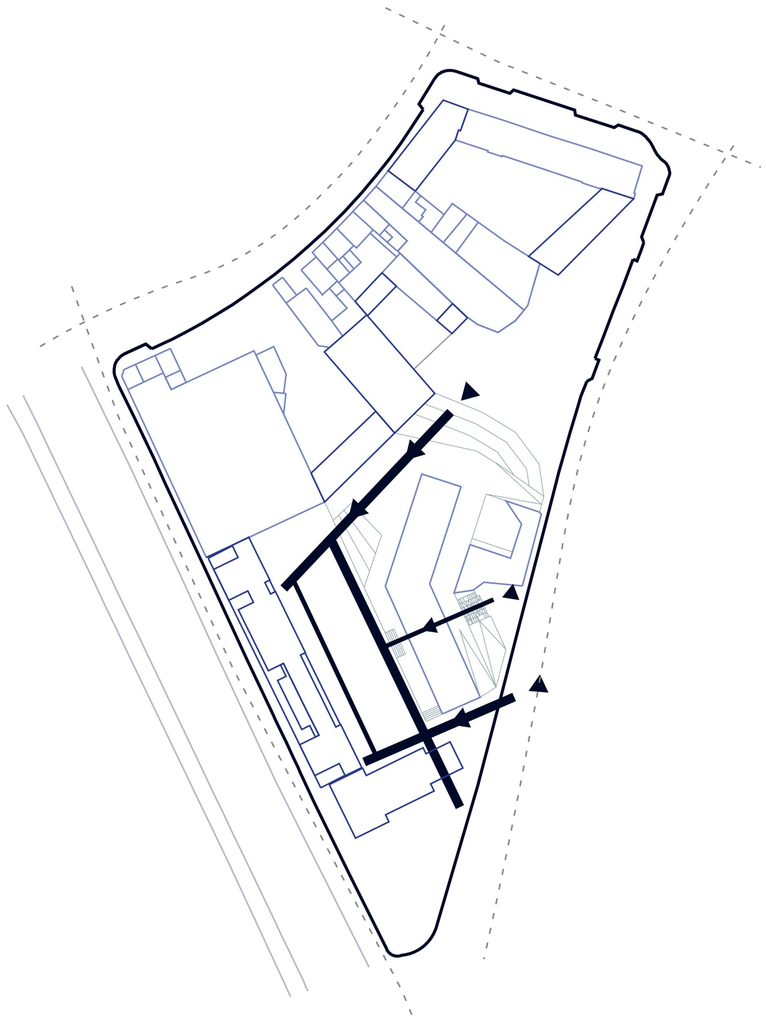


proposed additions



Masterplan

entrances



Approach

entrance from the park - present state



Approach

entrance from the park - proposed



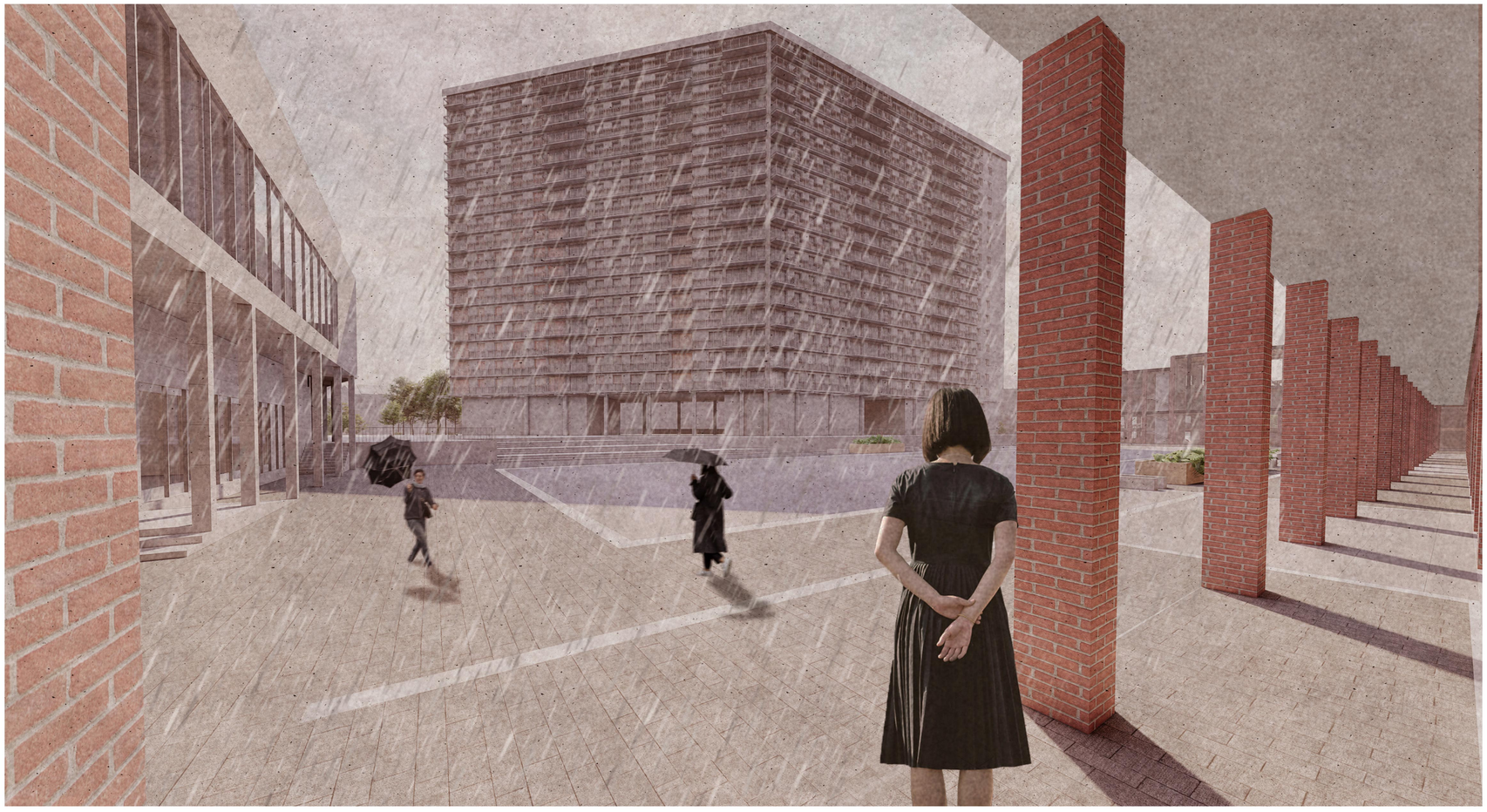
Masterplan

levels



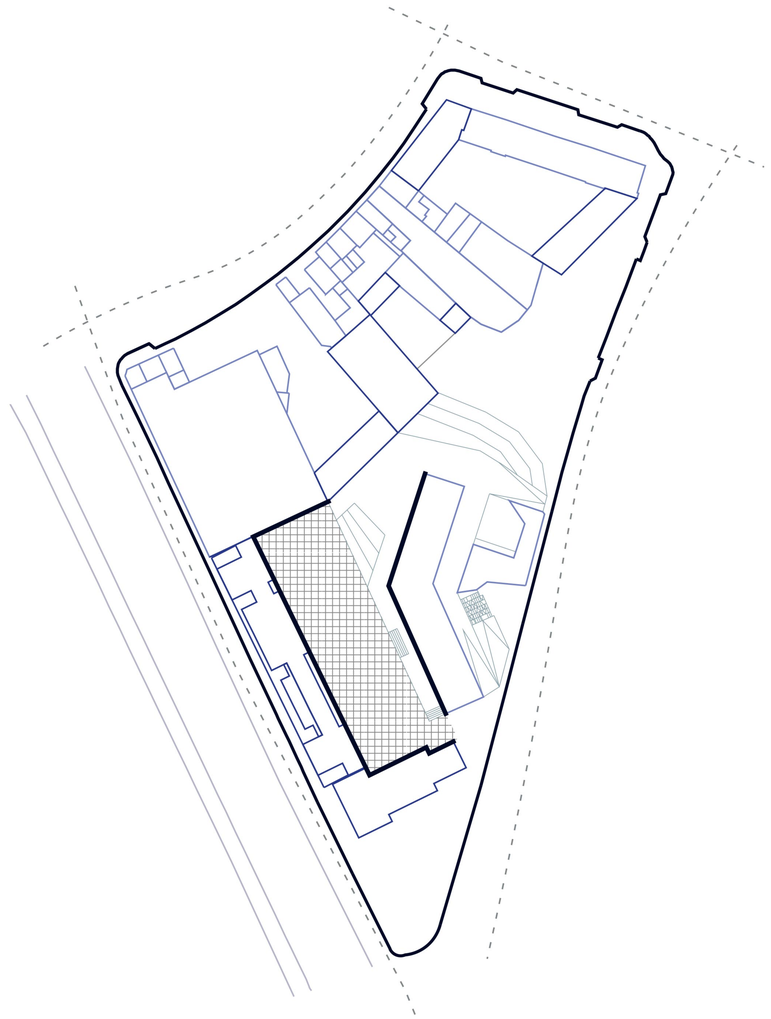
View

the square on a rainy day



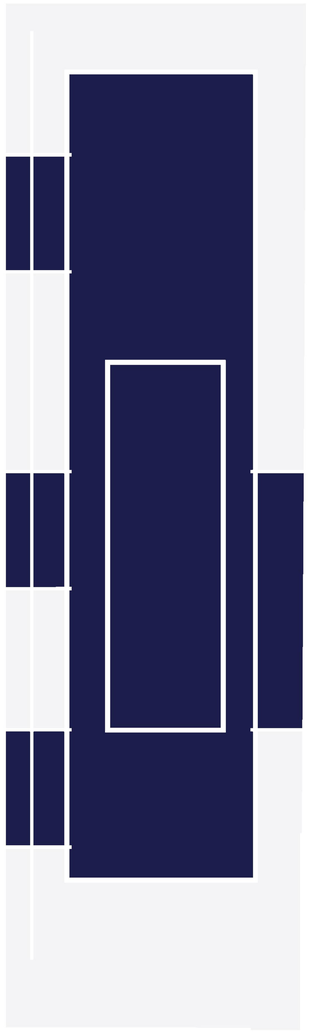
Masterplan

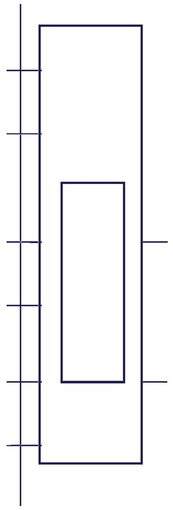
active perimeter



Masterplan

square -materiality



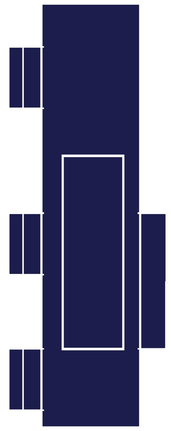


grey granite

(vertical disposition)

grey granite

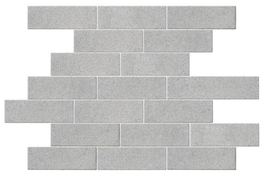
(horizontal disposition)



white sandstone



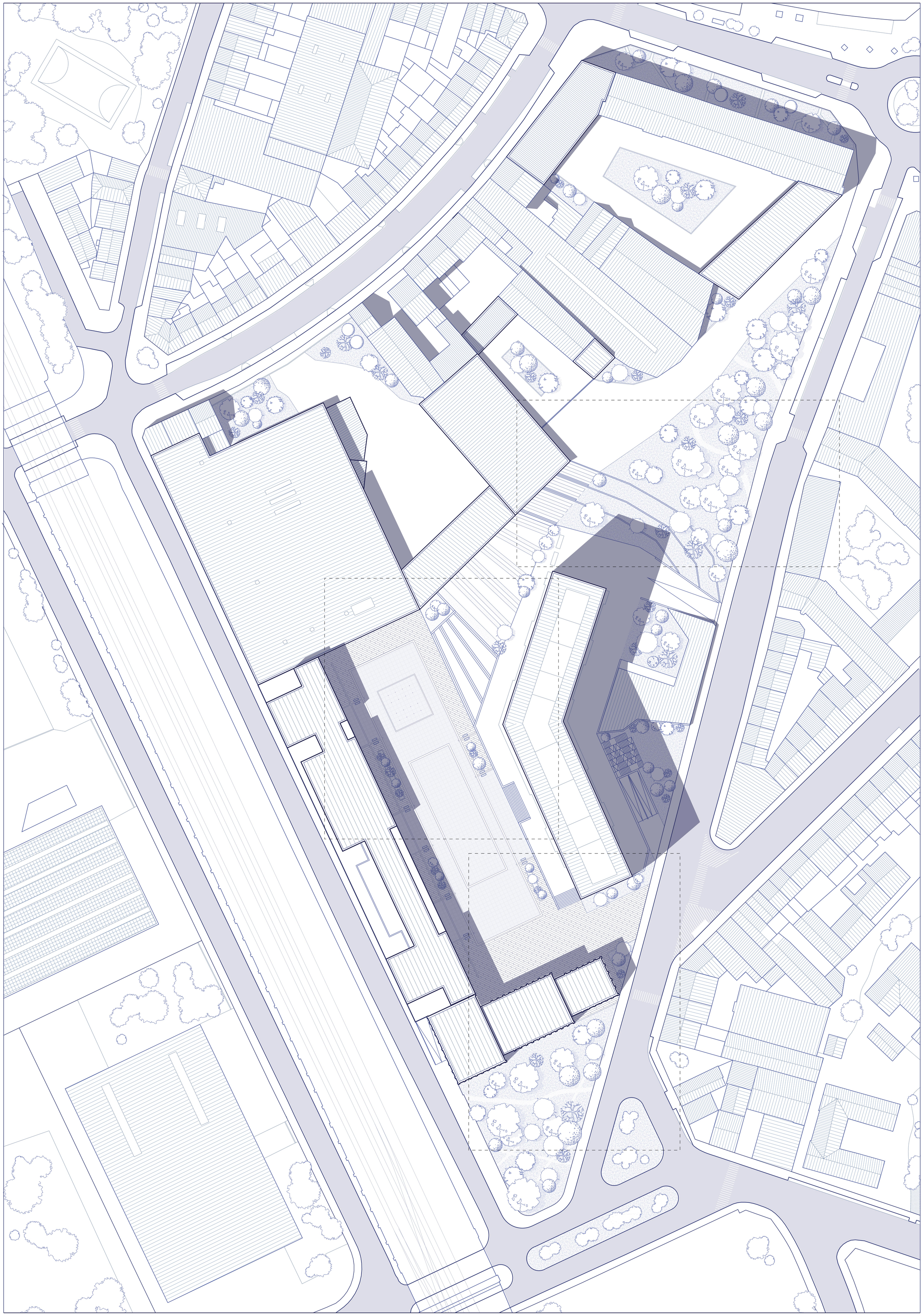
Opalis:
Tuinmaterialen Meynen



Opalis:
Tuinmaterialen Meynen

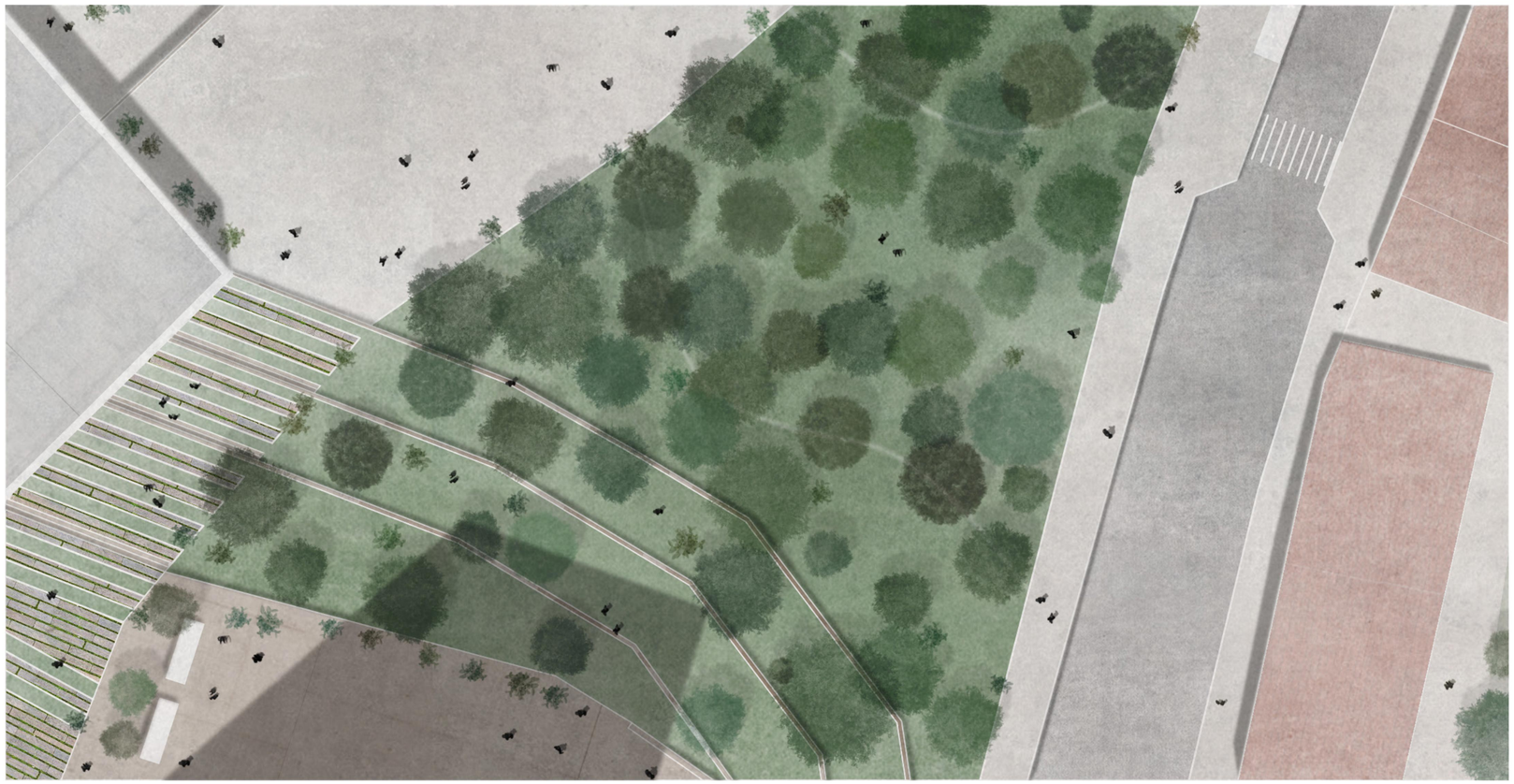


Opalis:
Pavès de Rue



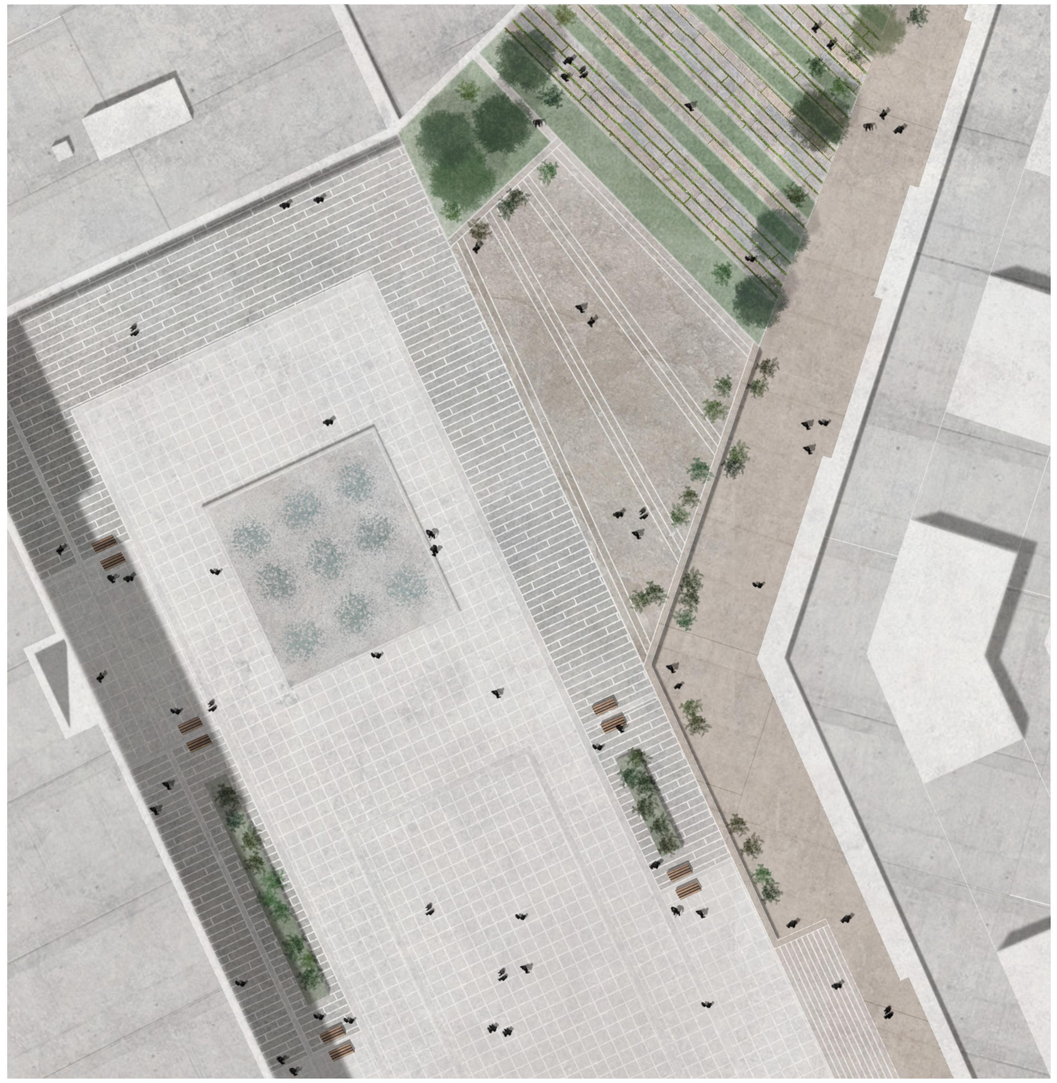
Masterplan

materiality

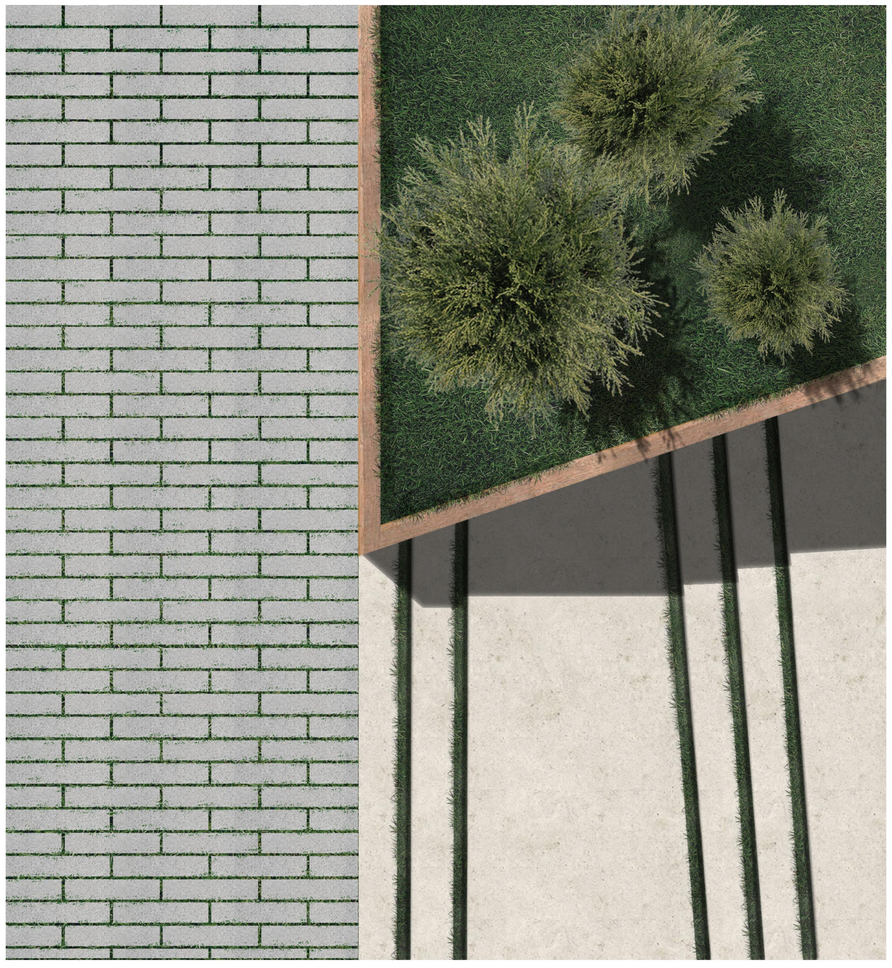


Masterplan

materiality



Masterplan



Masterplan



Masterplan

materiality



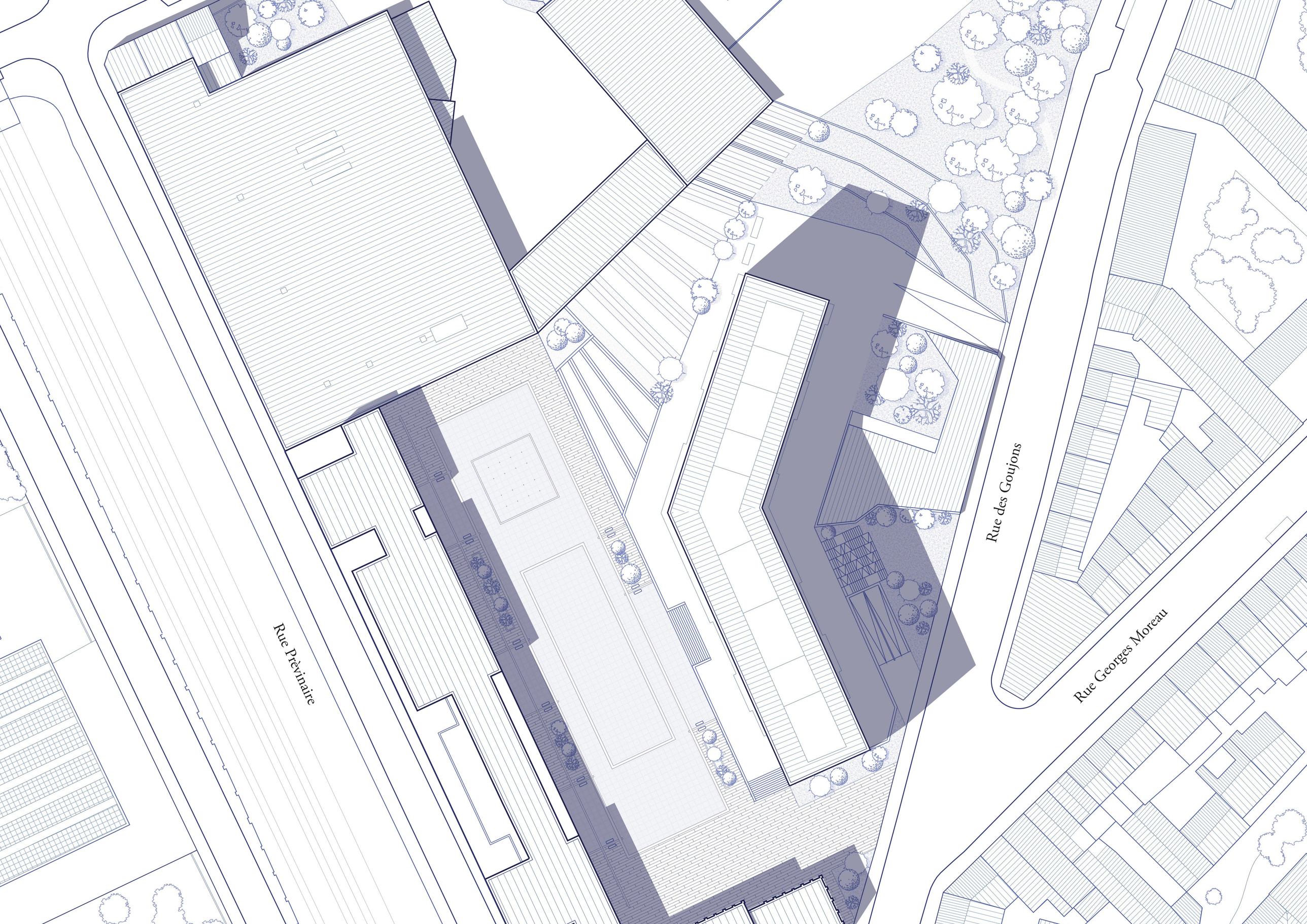
Masterplan



3.

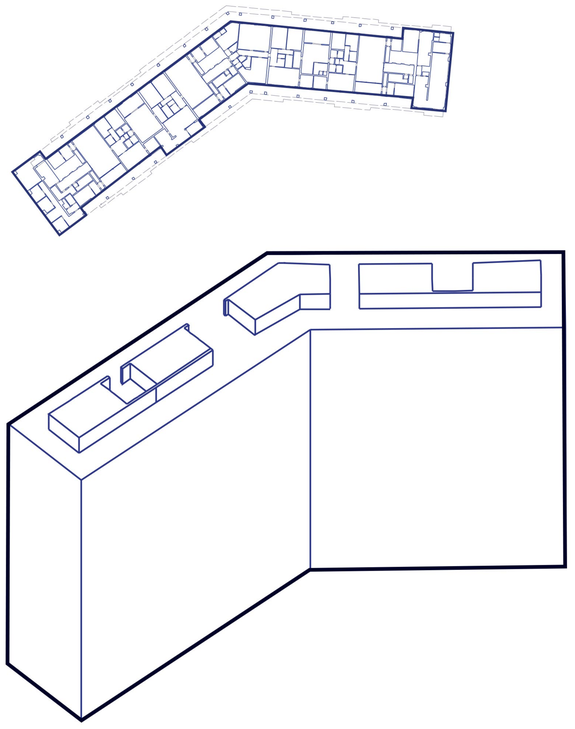
Les Goujons

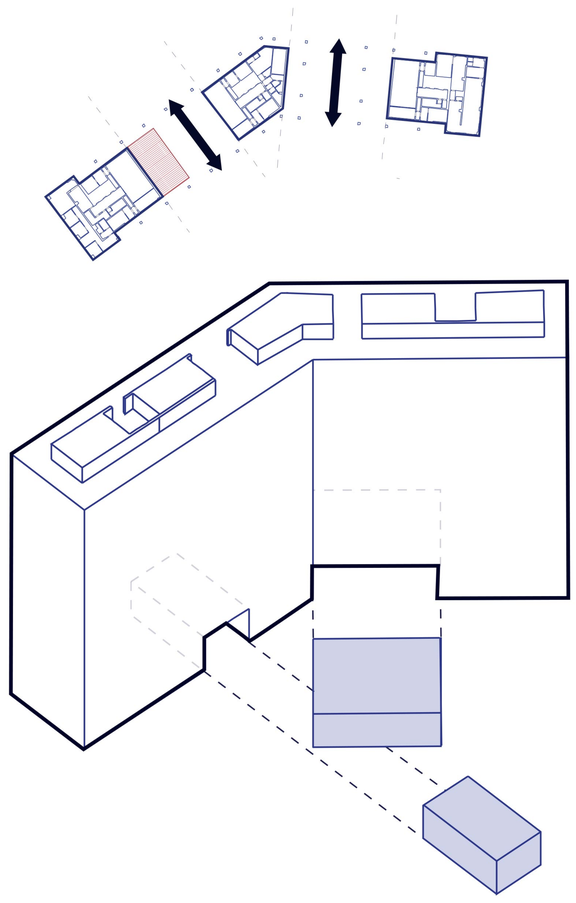



Rue Prèvinaire
Rue des Goujons
Rue Georges Moreau

Les Goujons

volume evolution



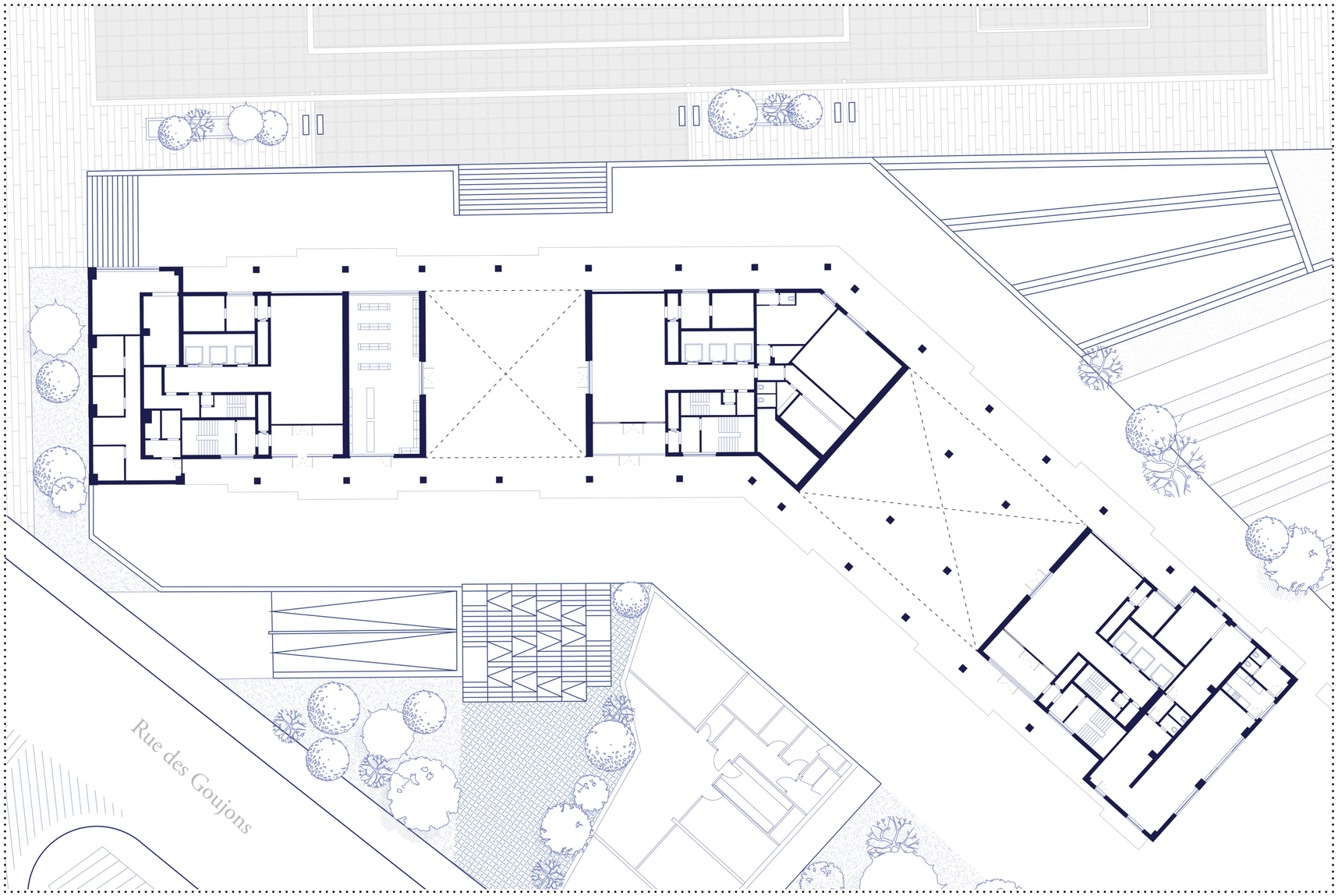


RESIDENTS RELOCATION

Ground floor:	3 x 76 sqm apartment (3 beds)	9 residents
First floor:	2 x 79 sqm apartment (3 beds)	6 residents
	2 x 80 sqm apartment (3 beds)	6 residents
	5 x 58 sqm apartment (2 beds)	10 residents
	1 x 67 sqm apartment (2 beds)	2 residents
Total		33 residents

Les Goujons

plan



0 1 5 10

Approach

entrance from Les Goujons - present state



Approach

entrance from Les Goujons - proposed



4.

Rotor



Rue Prèvinaire

Rue de l'Electricité

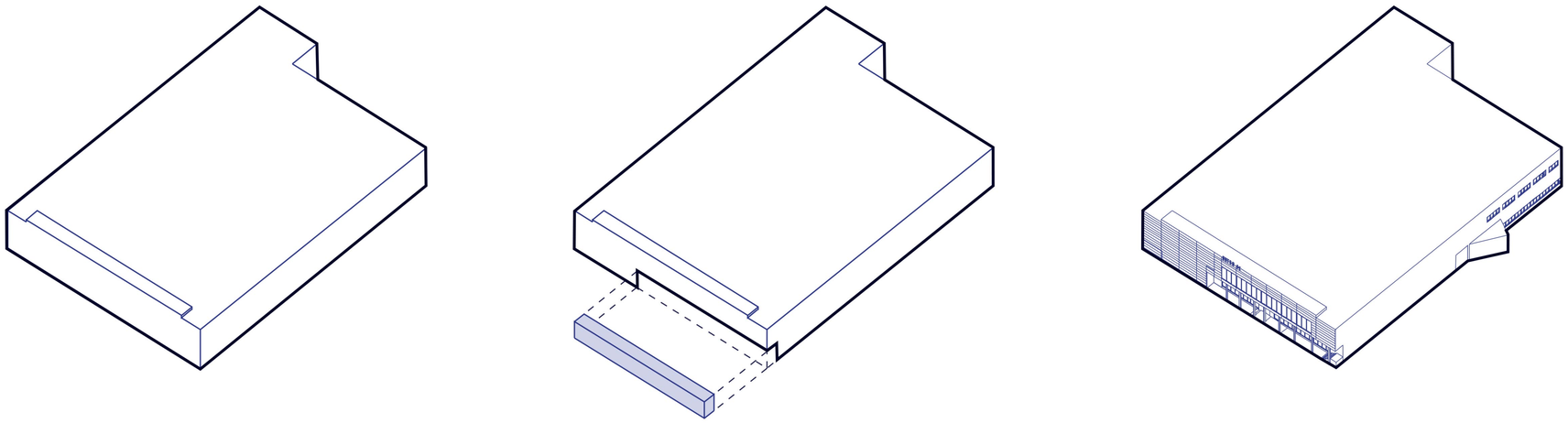
Rue des Bassins

Rue Prèvinaire

Rue des Goujons

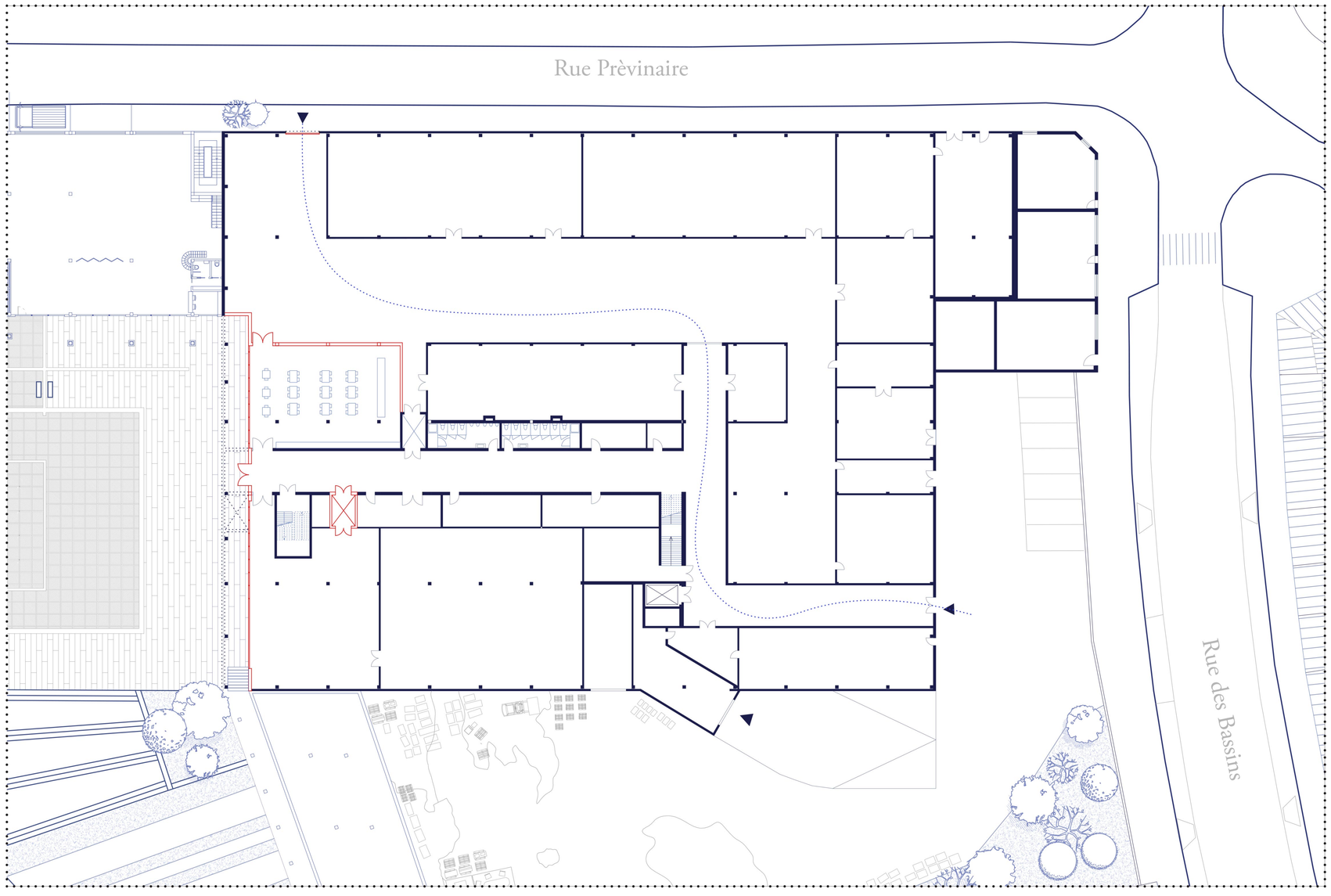
Rotor

volume evolution



Rotor

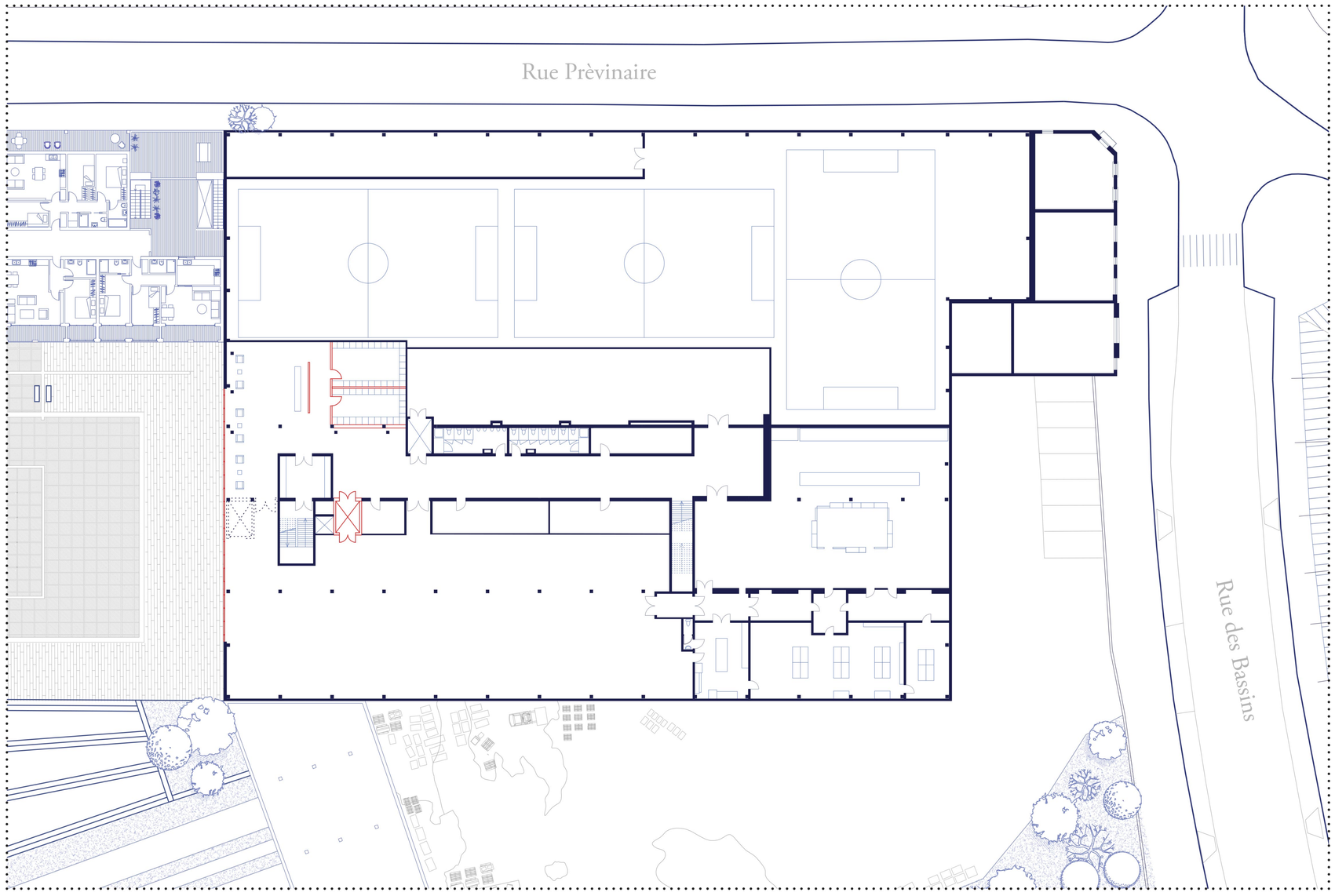
ground floor plan



0 1 5 10

Rotor

first floor plan



0 1 5 10

View

Rotor existig facade



View

Rotor new facade



View

Rotor and Goujons - present state



View

Rotor and Goujons - proposed



5.

cultural centre



Place du Conseil, Cureghem, Anderlecht



Place du Conseil, Cureghem, Anderlecht



Place du Conseil, Cureghem, Anderlecht



Place du Conseil, Cureghem, Anderlecht



Rue Prèvinaire

Rue des Goujons

Rue Georges Moreau

Rue des Goujons

Rue Dr Kuborn

Approach
coming from Rue Des Goujons - present state

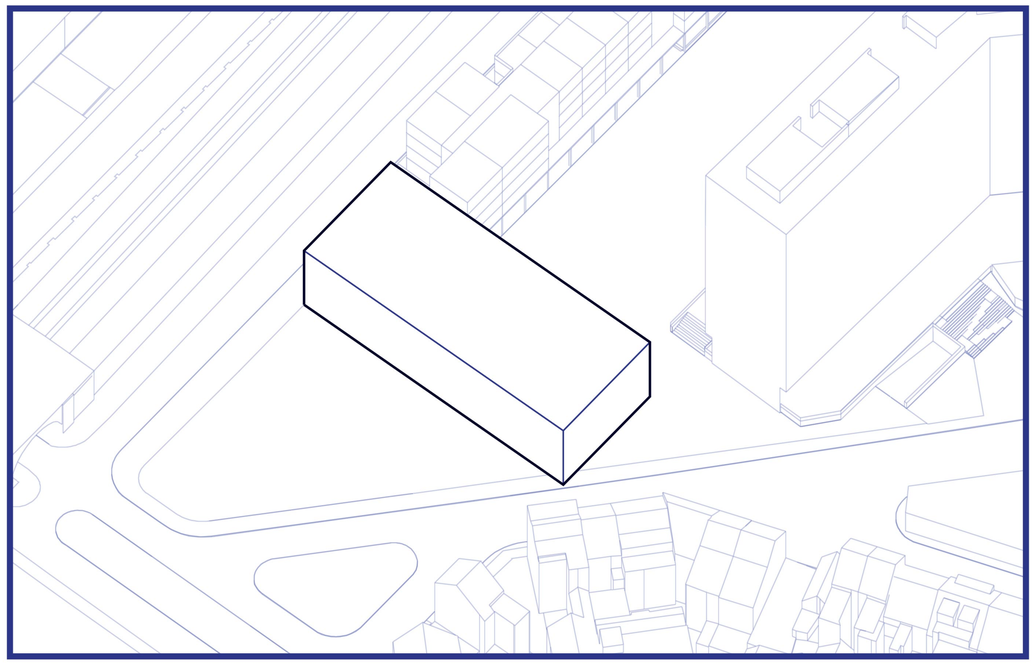


Approach
coming from Rue Des Goujons - proposed



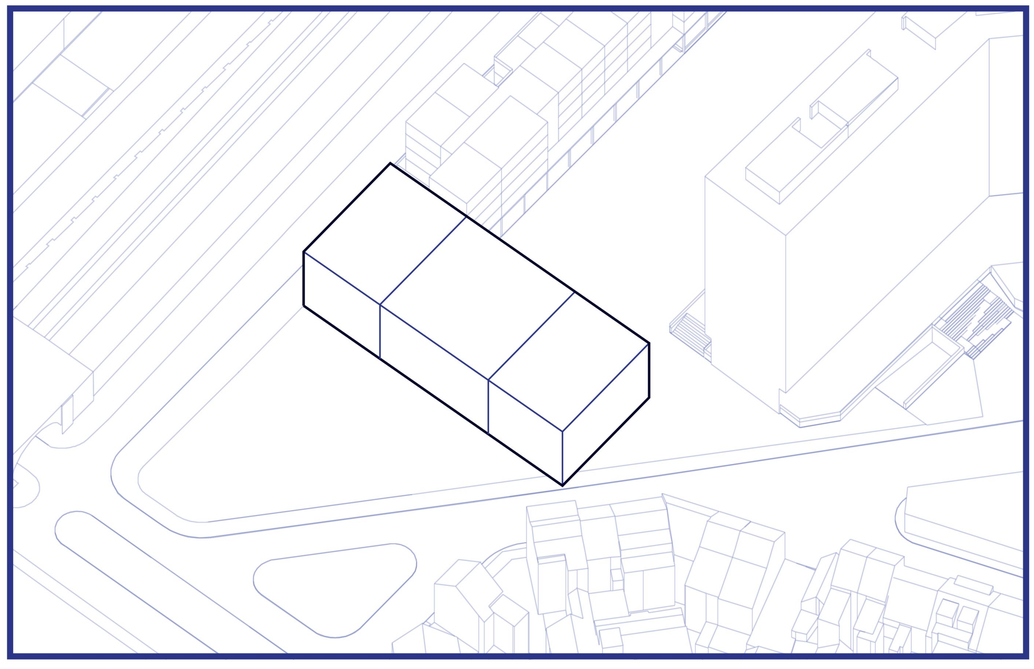
Cultural centre

volume evolution



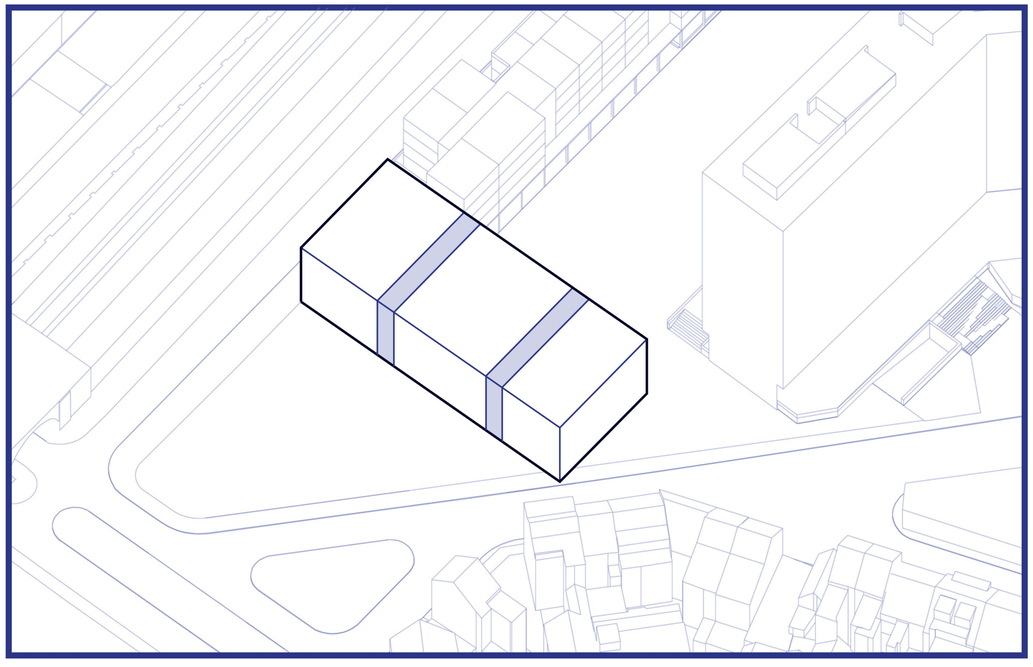
Cultural centre

volume evolution



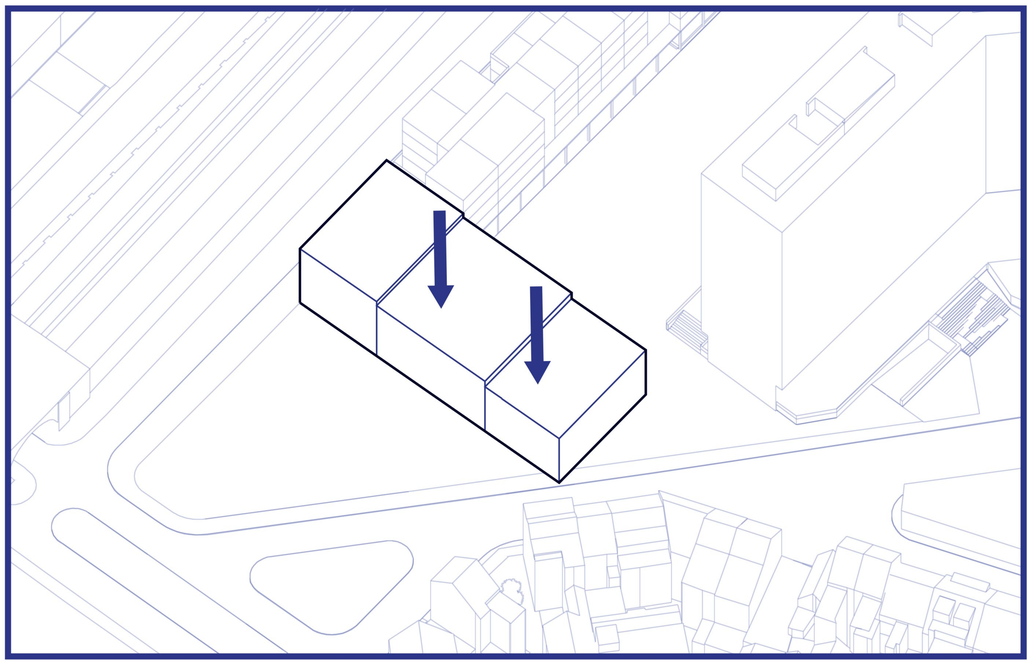
Cultural centre

volume evolution



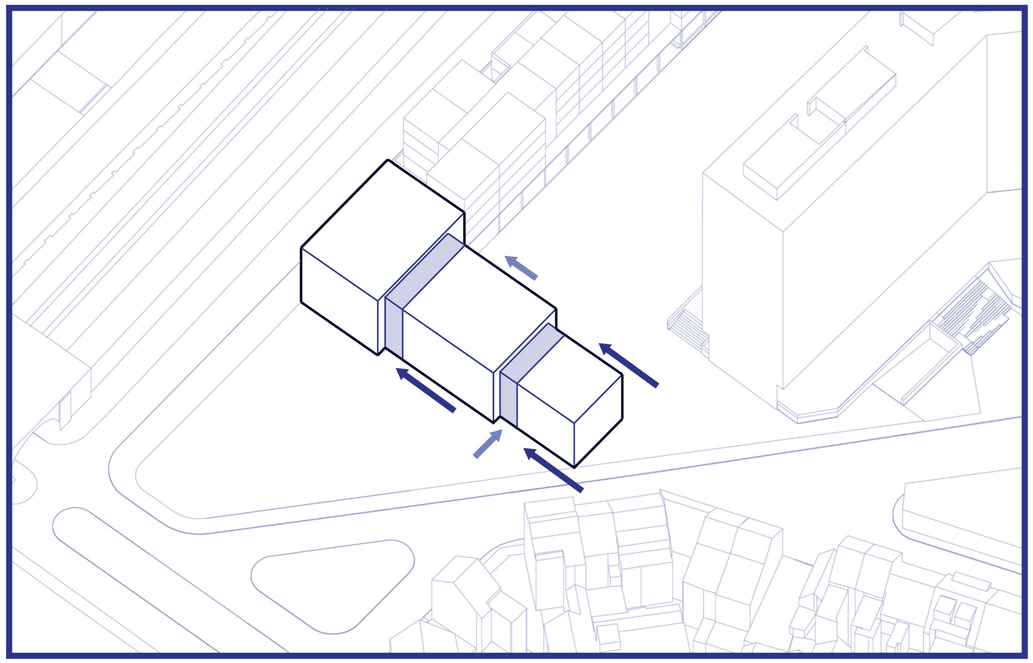
Cultural centre

volume evolution



Cultural centre

volume evolution



Approach
coming from Rue Georges Moreau - present state

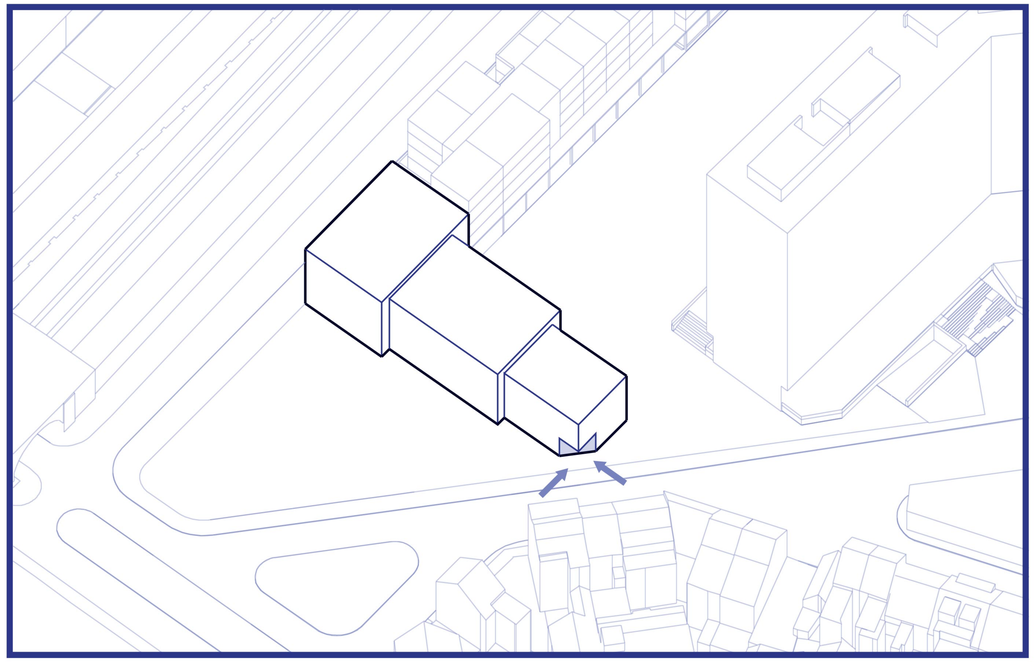


Approach
coming from Rue Georges Moreau - proposed



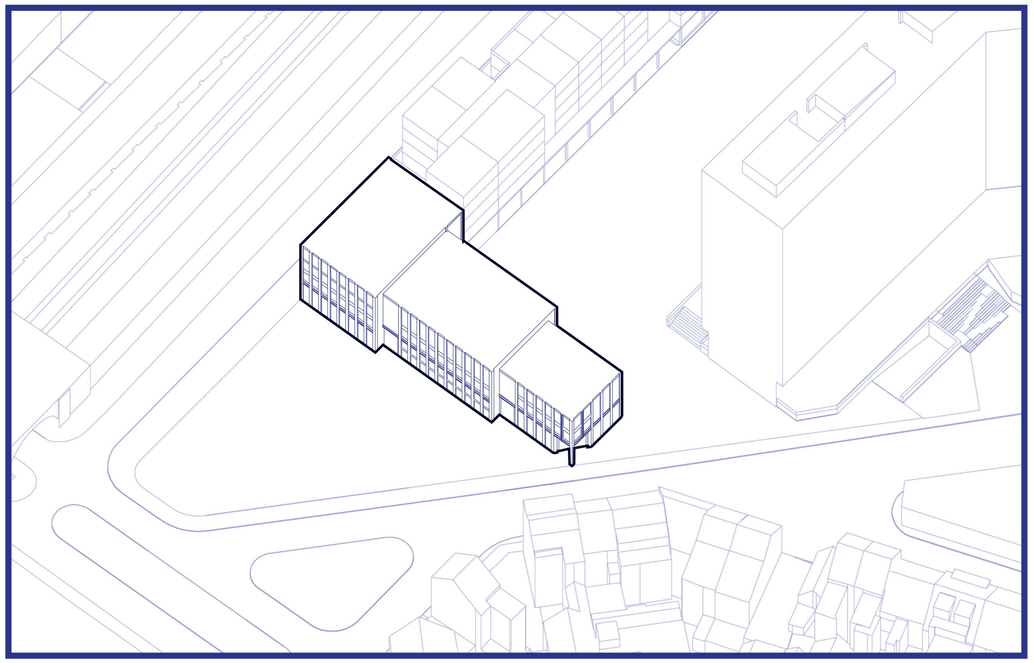
Cultural centre

volume evolution



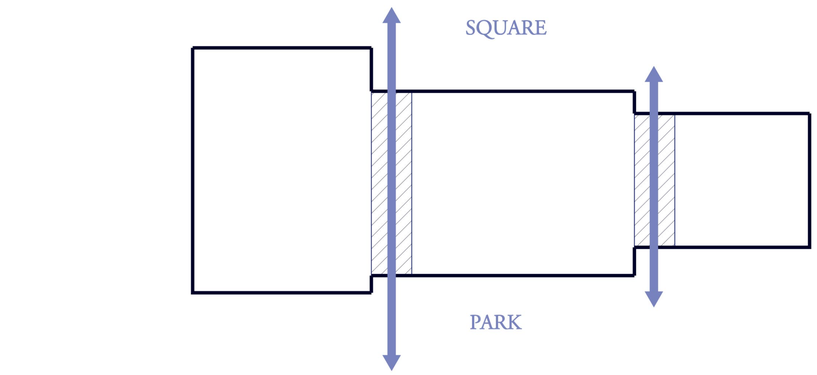
Cultural centre

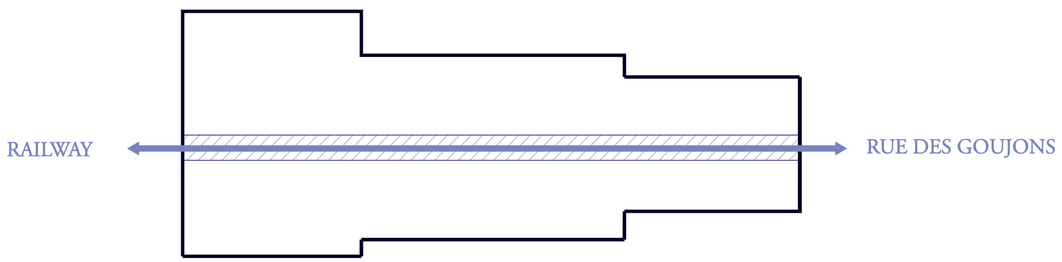
volume evolution



Cultural centre

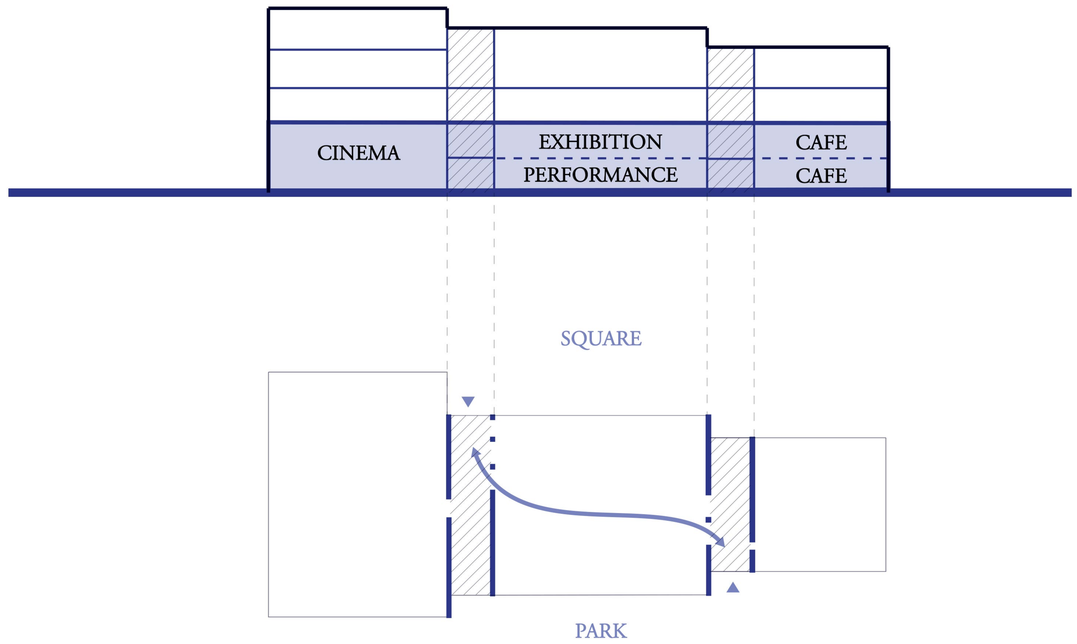
circulation





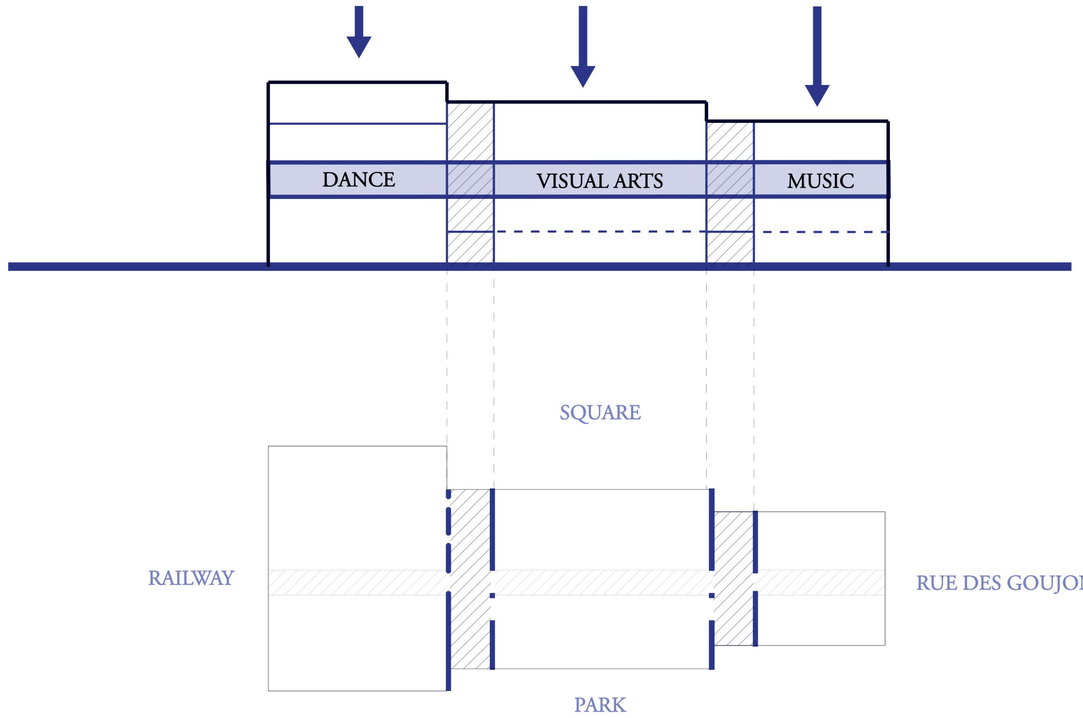
Cultural centre

program



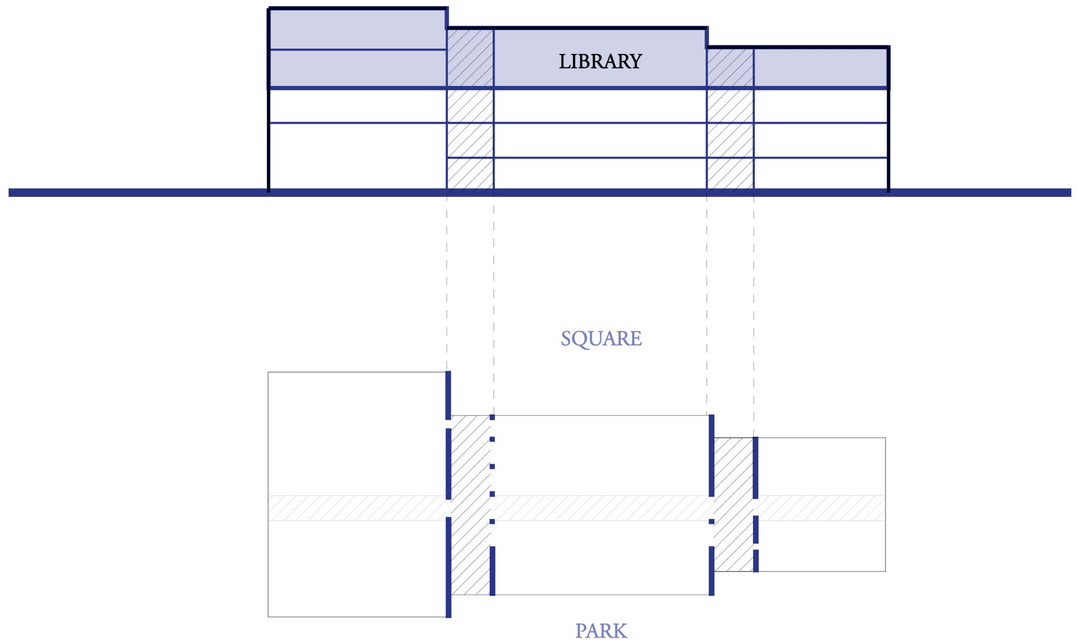
Cultural centre

program



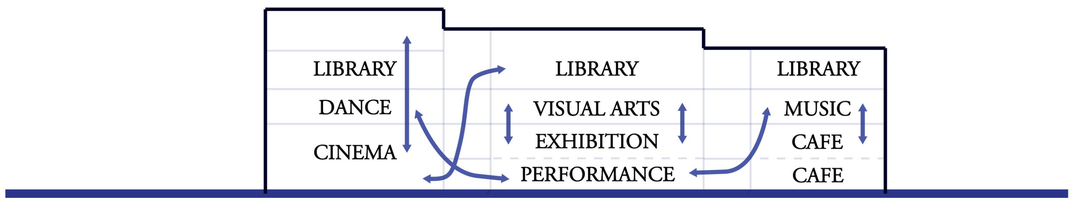
Cultural centre

program



Cultural centre

program



Cultural centre

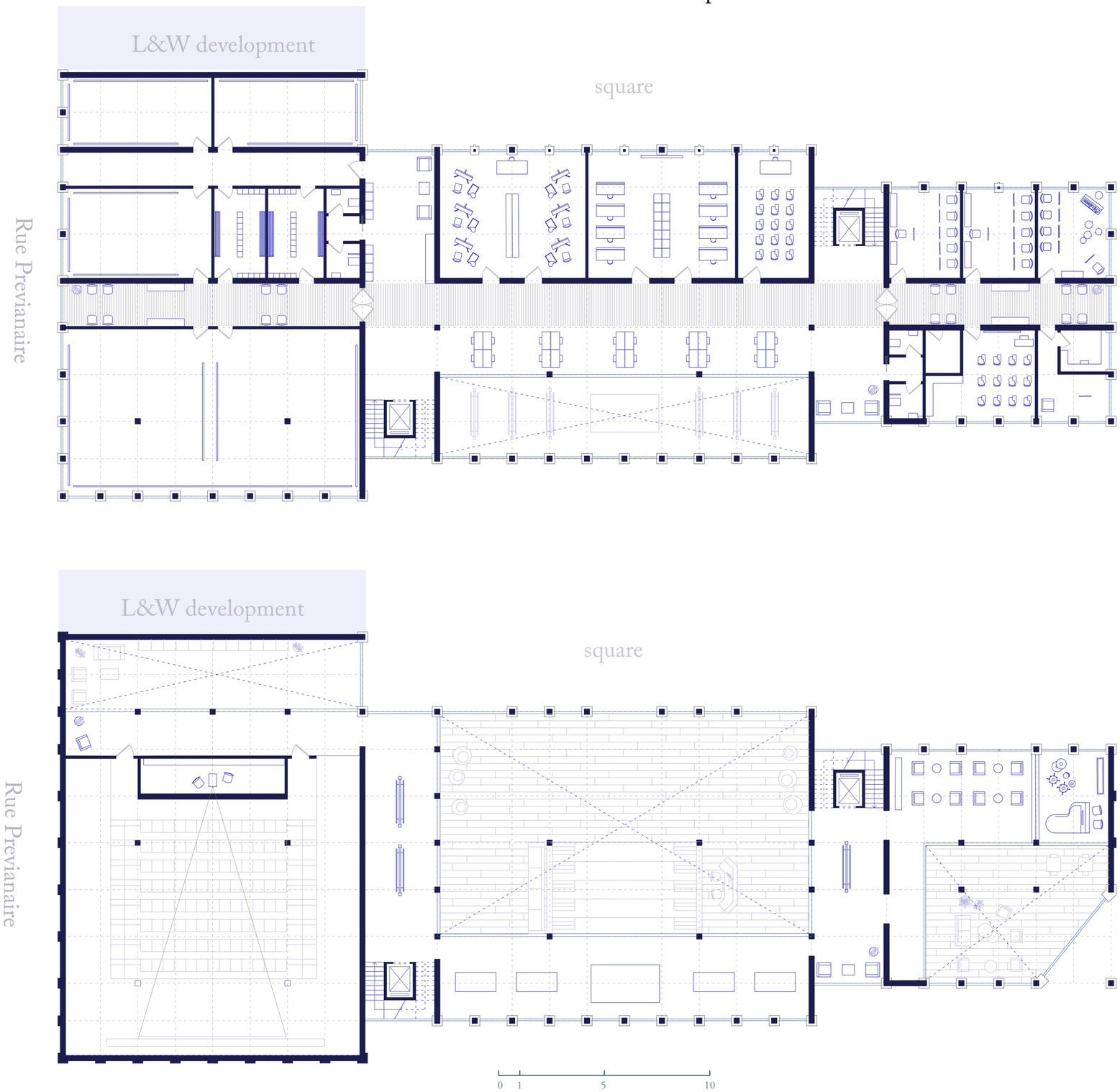
ground floor plan

Rue Previnaire

Rue des Goujons

Cultural centre

mezzanine and first floor plan

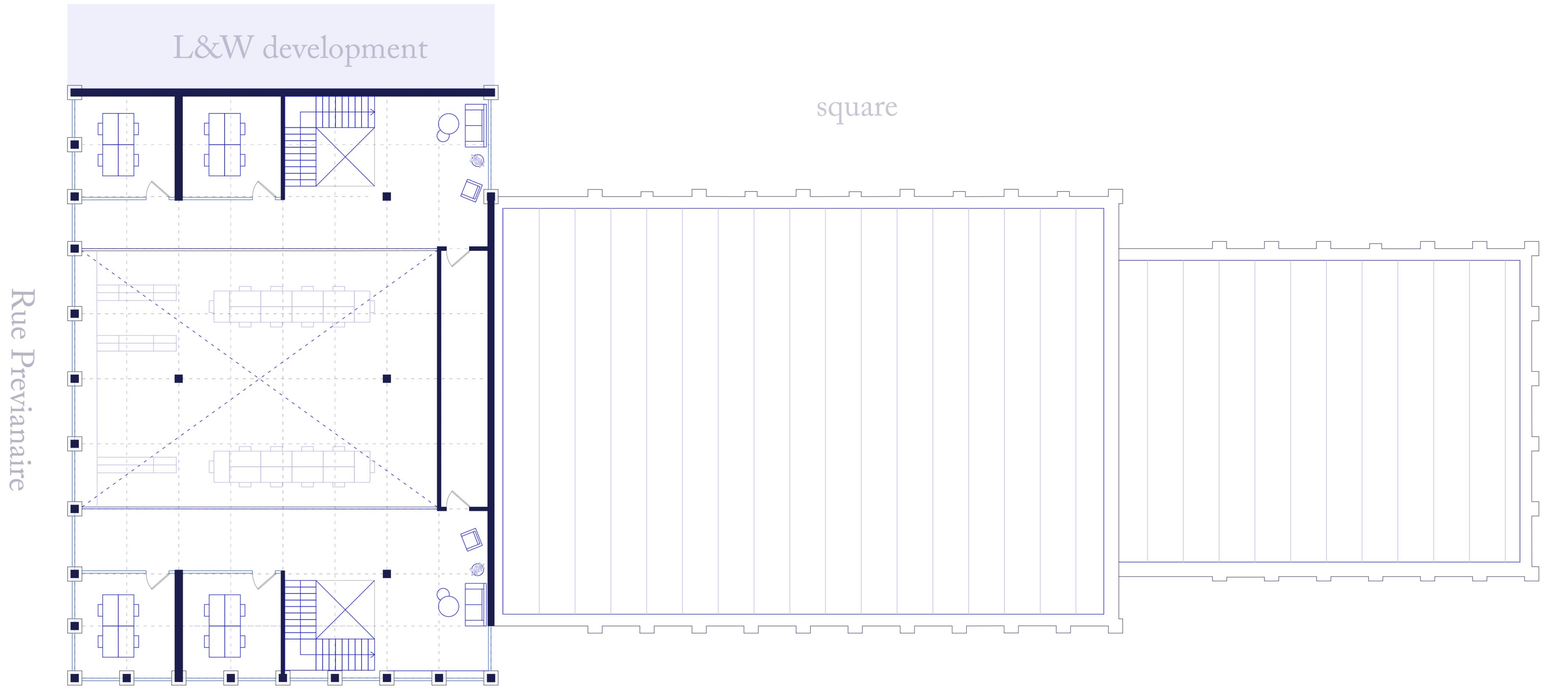


1st

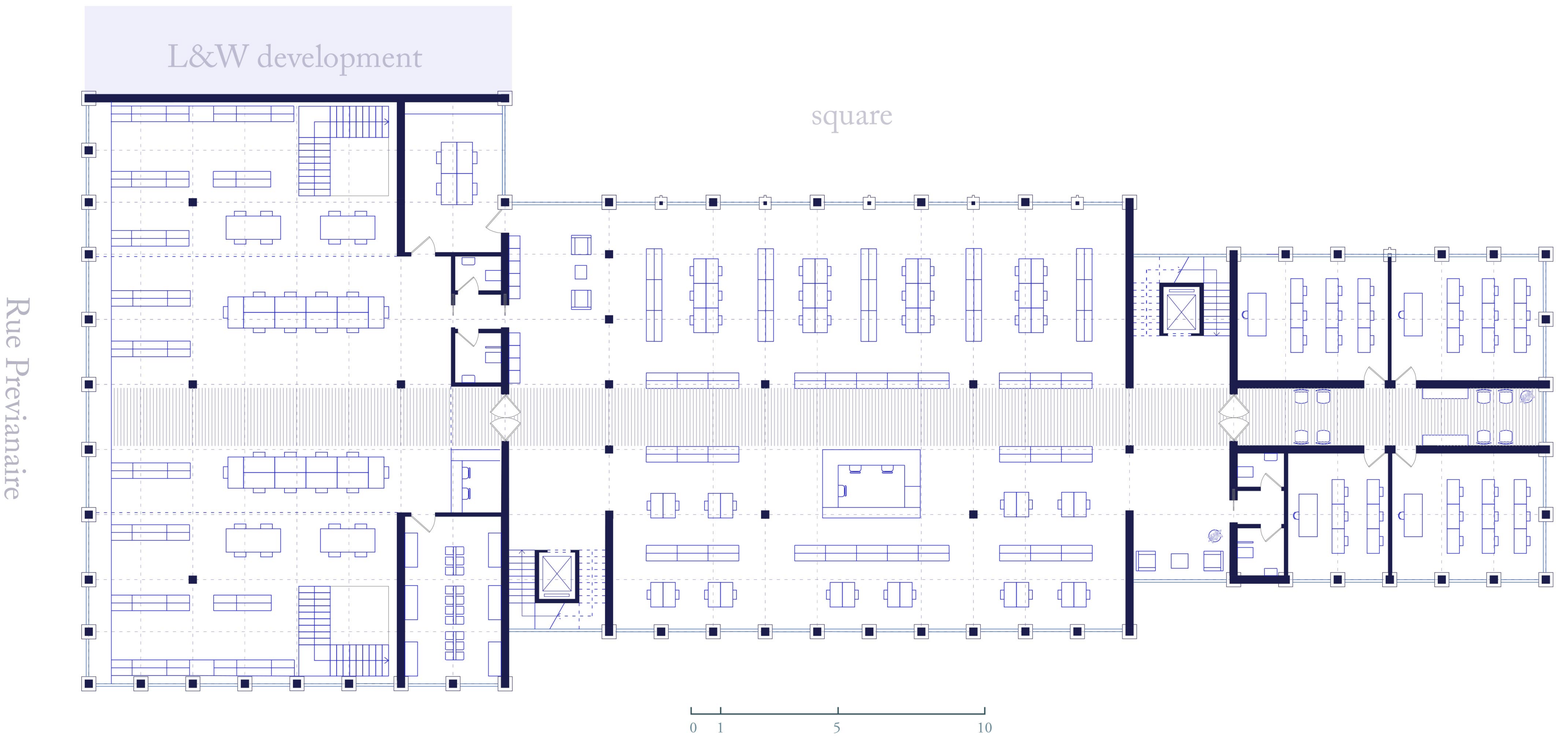
mz

Cultural centre

second and third floor plan



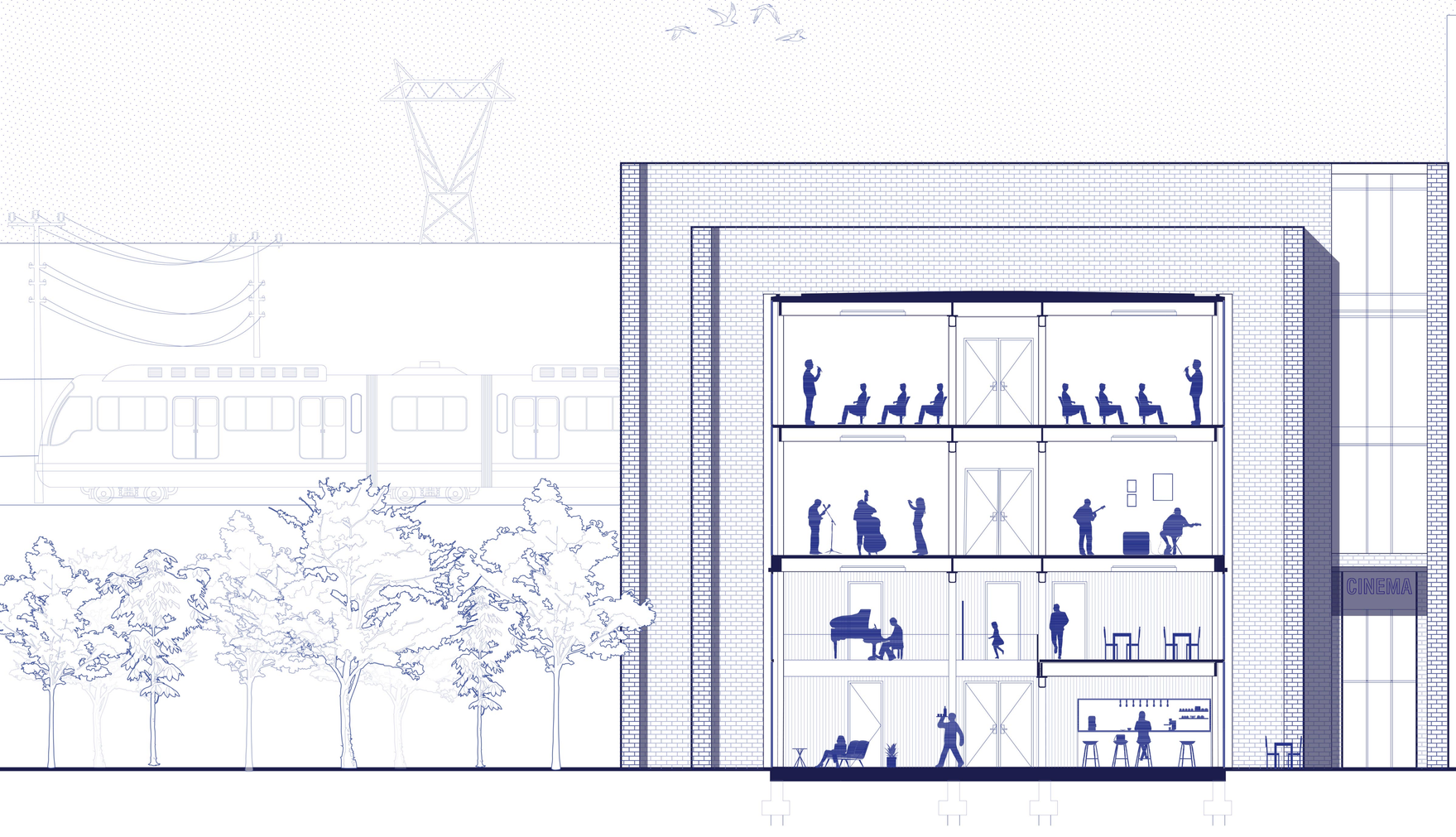
3rd



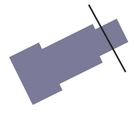
2nd

Cultural centre

section

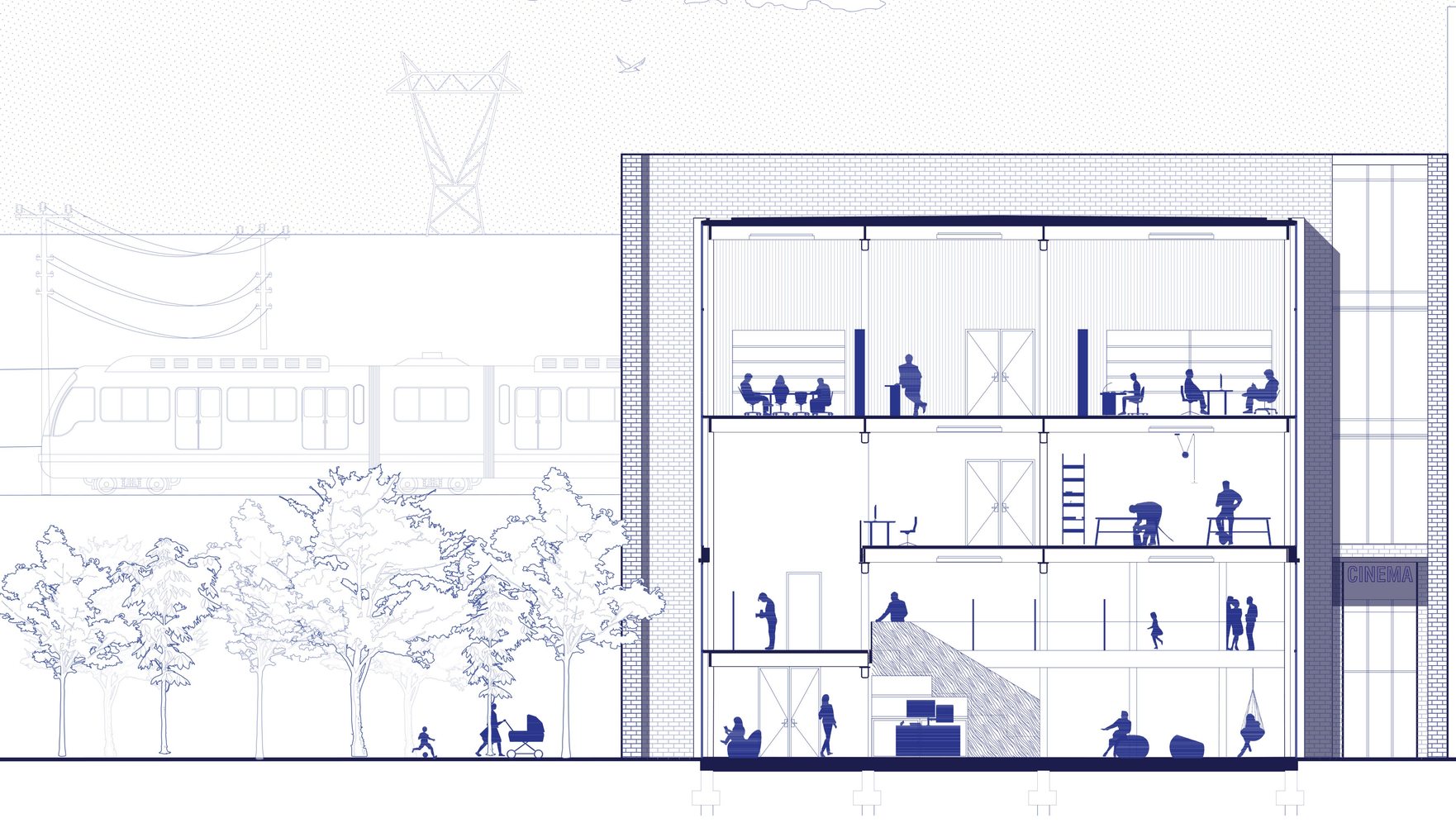


0 1 5 10

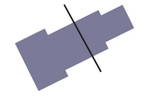


Cultural centre

section



0 1 5 10



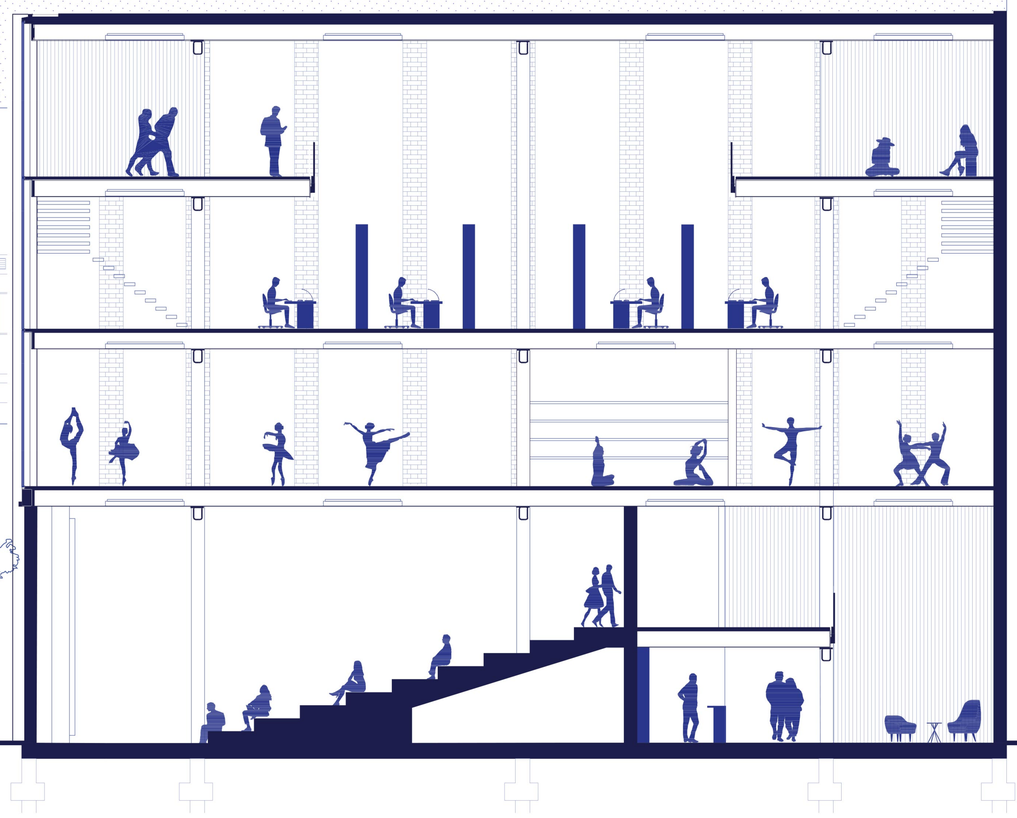
View
main hall cultural centre



Cultural centre

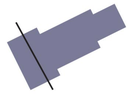
section





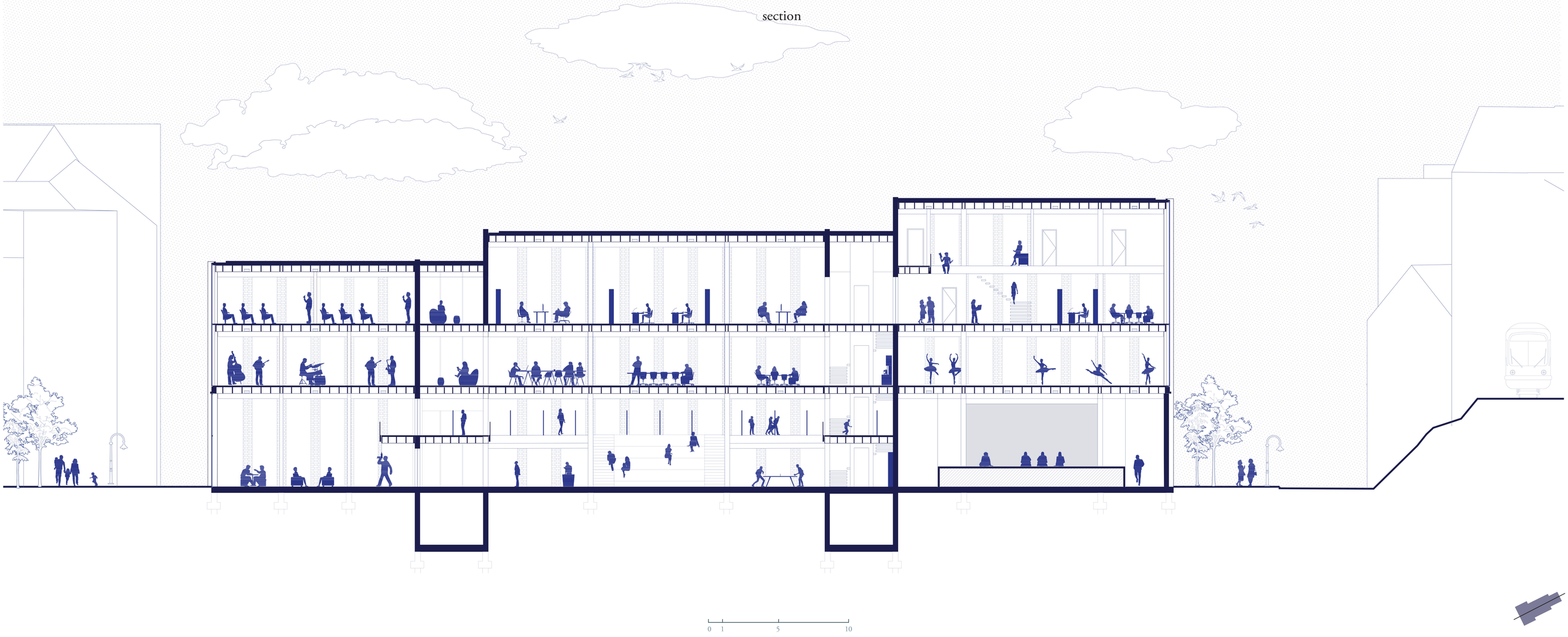


0 1 5 10



Cultural centre

section



0 1 5 10

Cultural centre

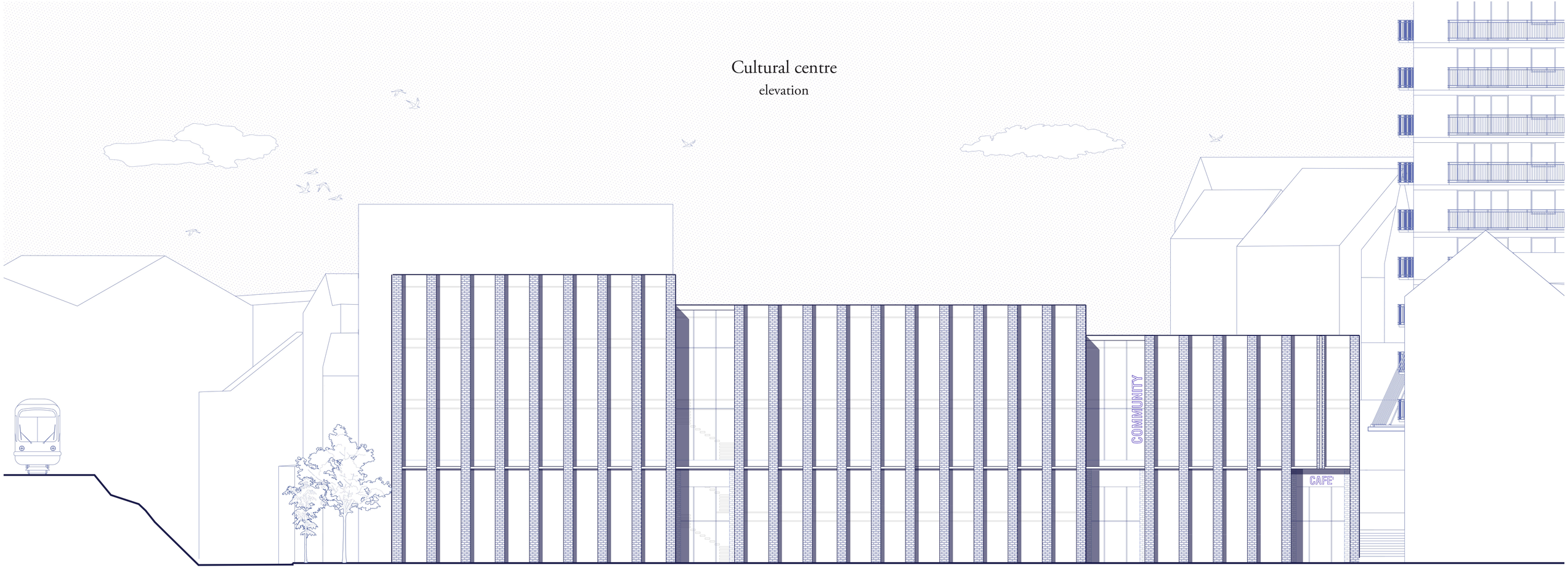
elevation



0 1 5 10

Cultural centre

elevation



0 1 5 10

Cultural centre

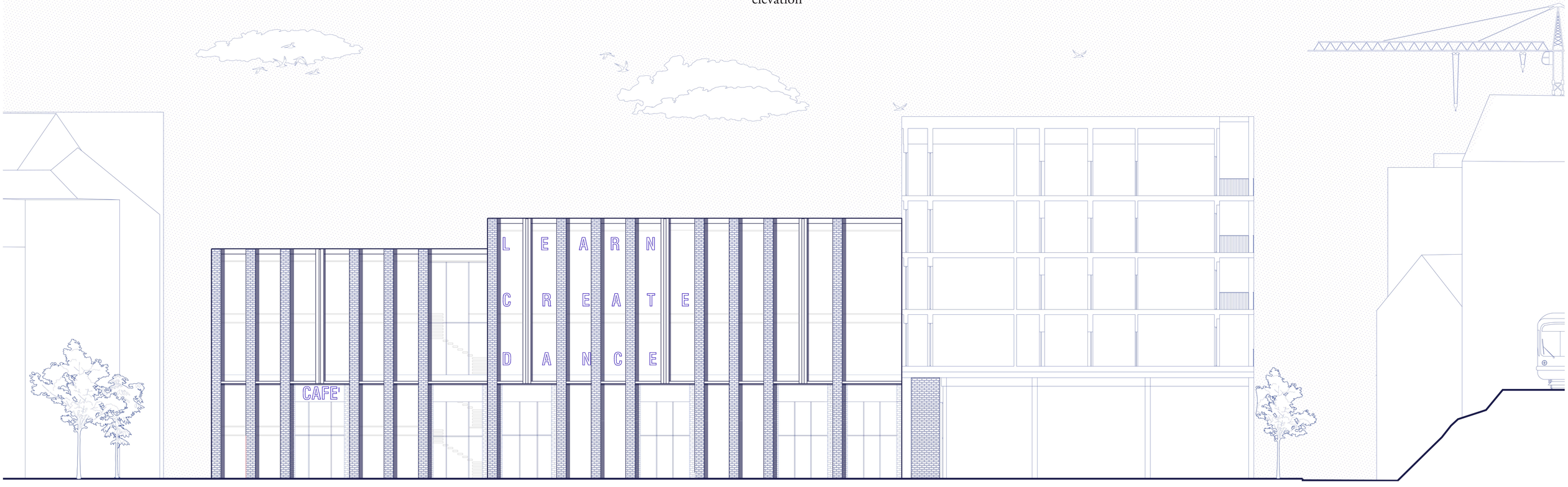
elevation



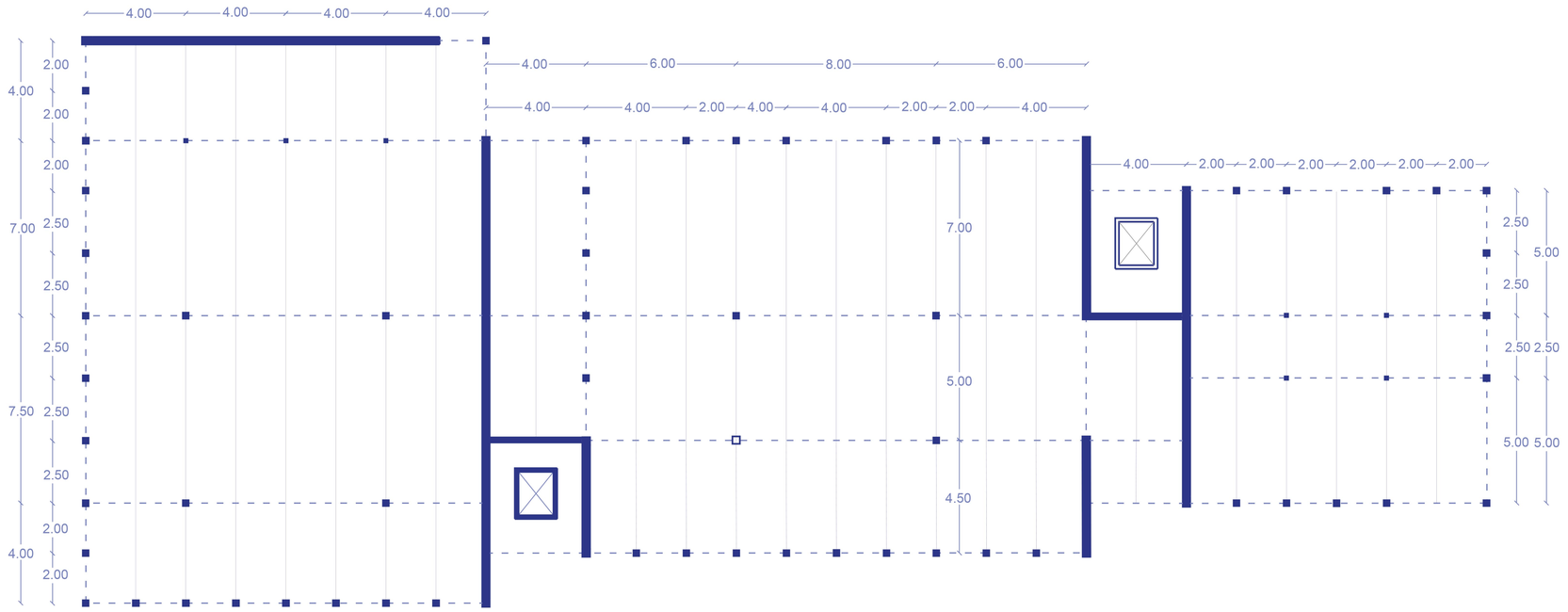
0 1 5 10

Cultural centre

elevation

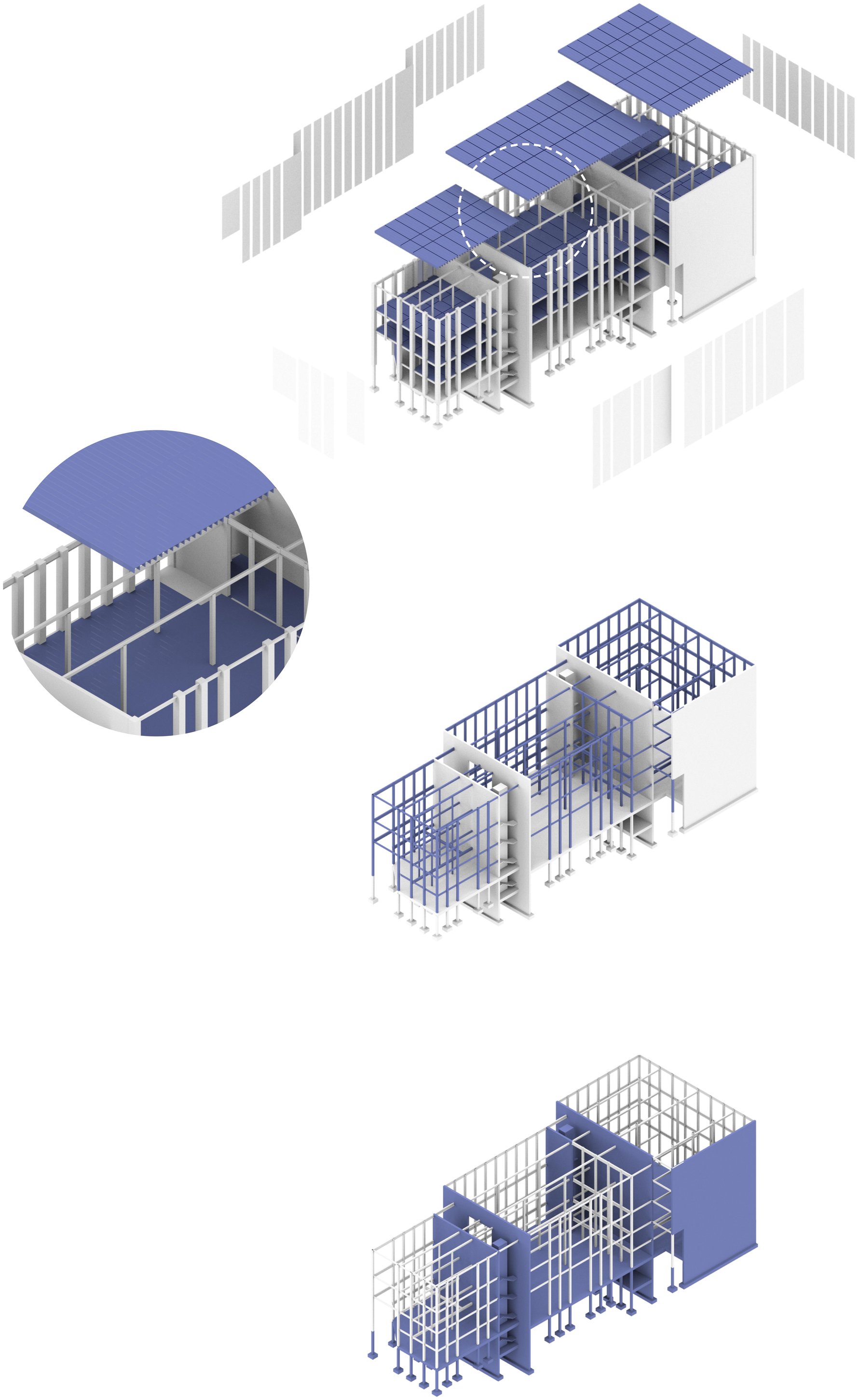


Cultural centre
structural plan

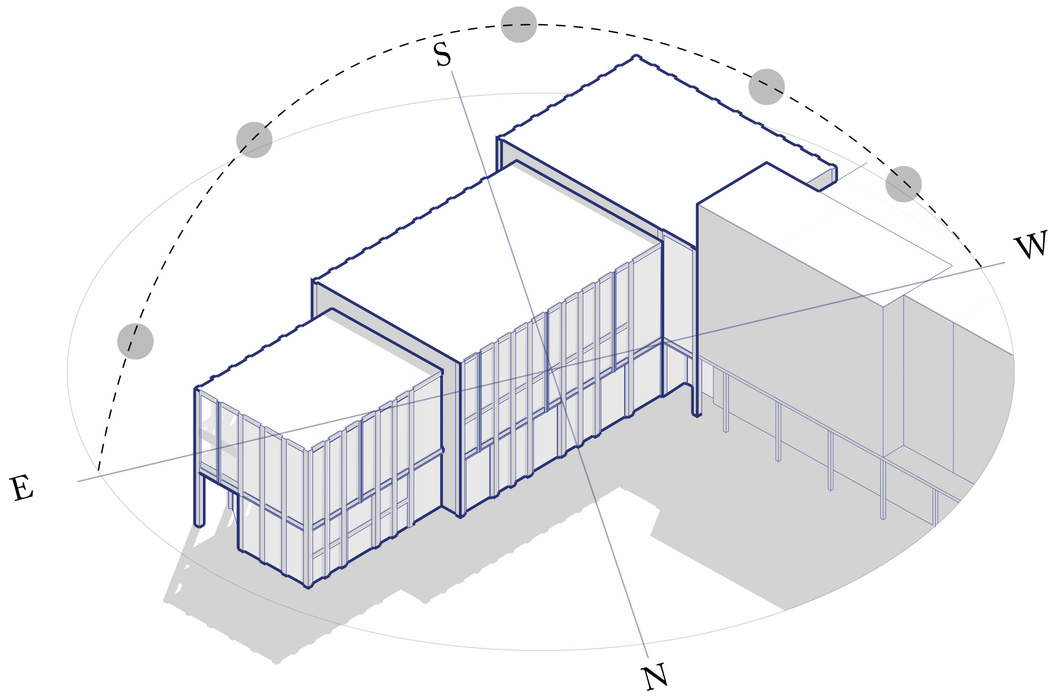

4.00
4.00
4.00
4.00
4.00
6.00
8.00
6.00
4.00
4.00
2.00
4.00
4.00
2.00
2.00
4.00
4.00
2.00
2.00
2

Living & working development

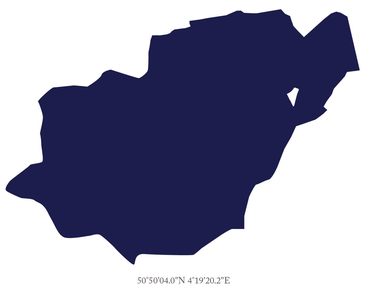
structure



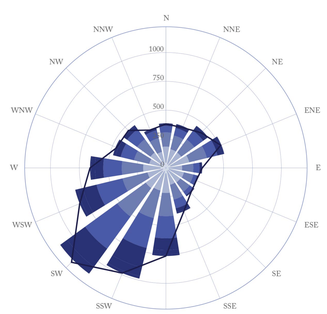
Climate



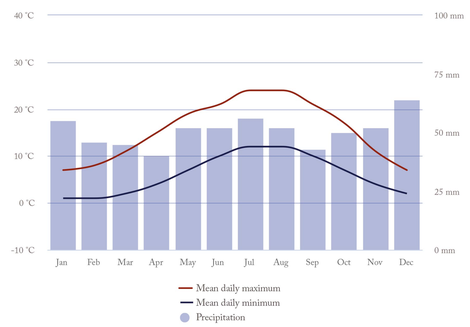
ORIENTATION



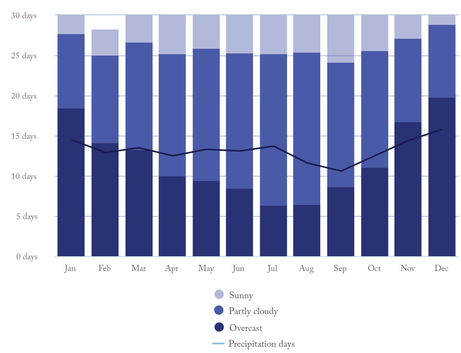
LOCALIZATION



WIND

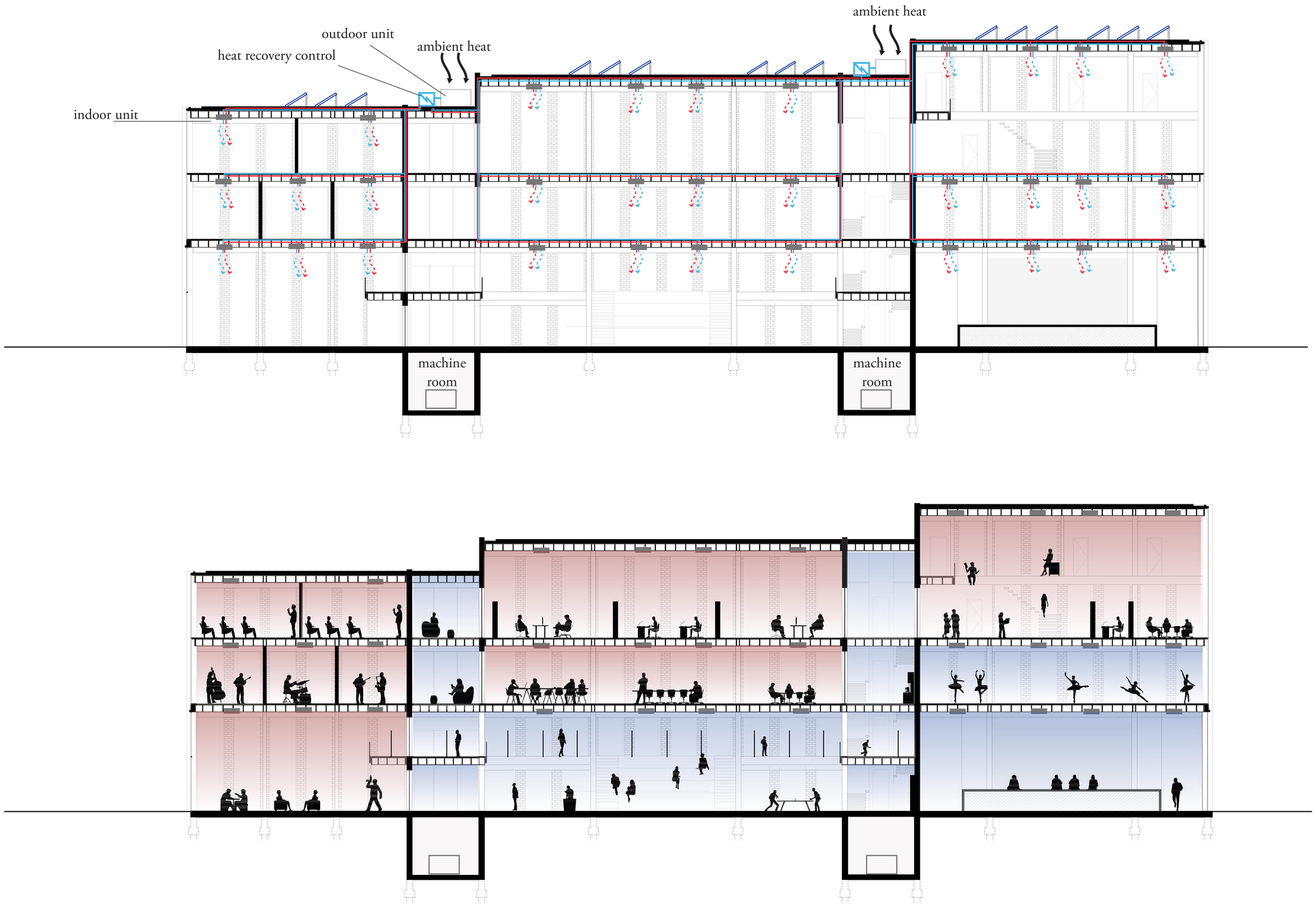


TEMPERATURE & PRECIPITATION



WEATHER

Climate

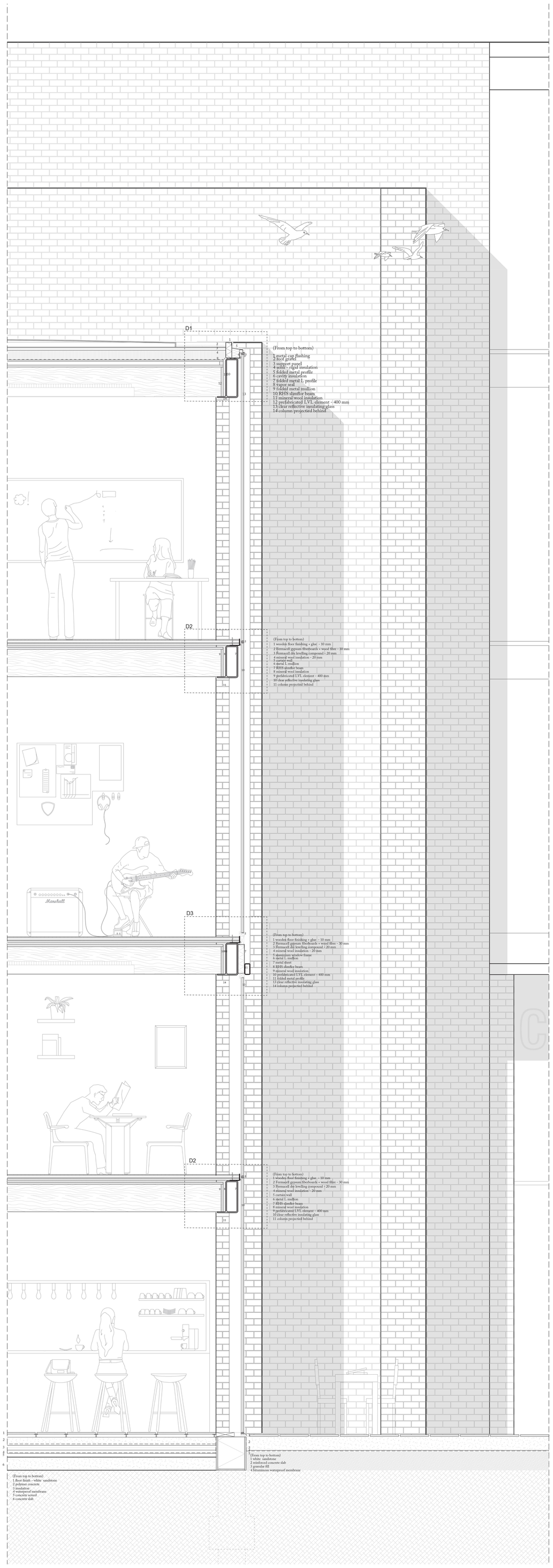


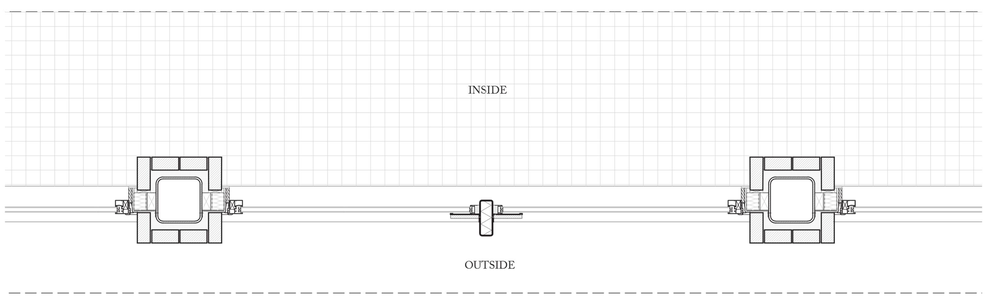
variable refrigerant flow

Cultural centre

facade detailed section 1:20

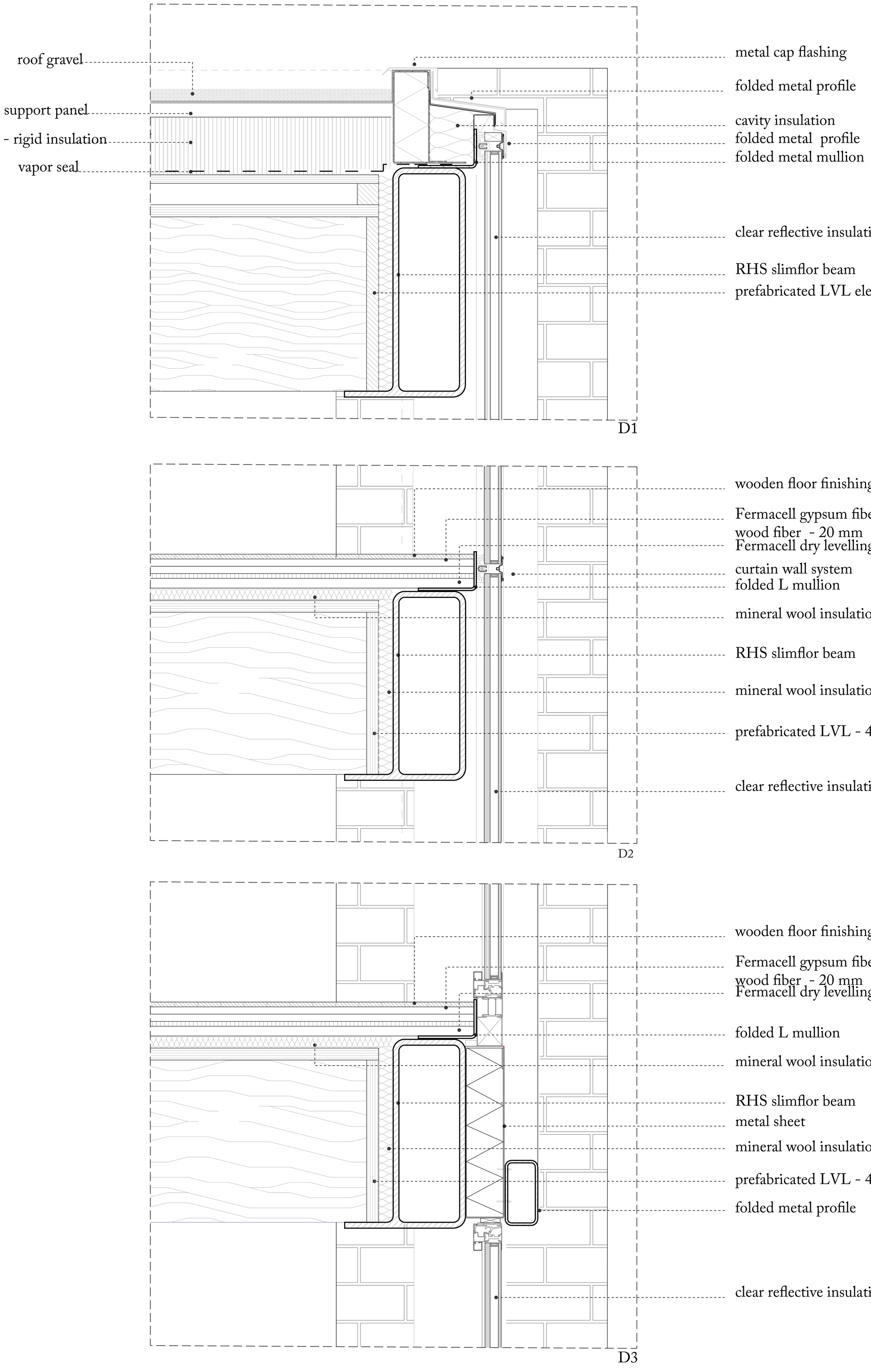






Cultural centre

construction details 1:5

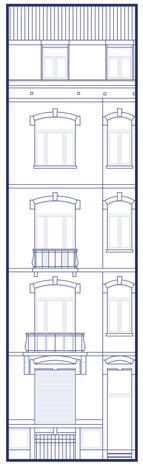


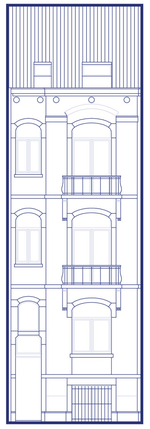
6.

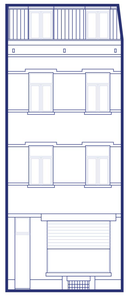
living&working

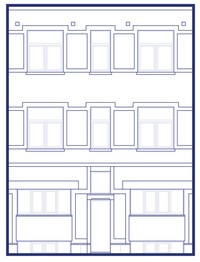
Integration of life and work

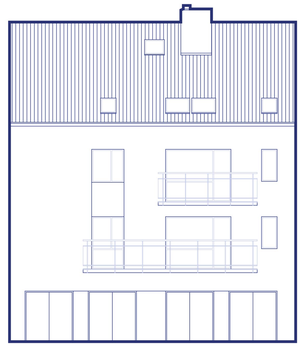
living

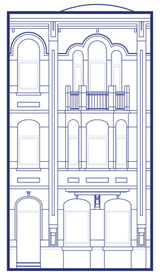




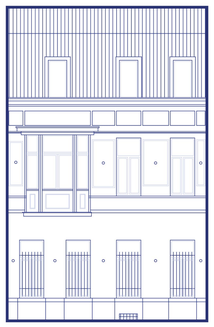






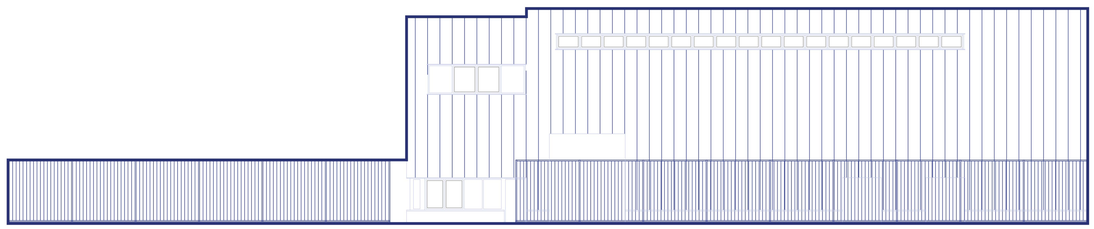


working

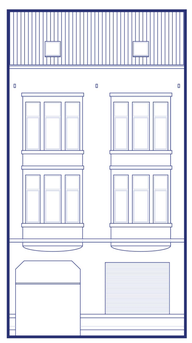




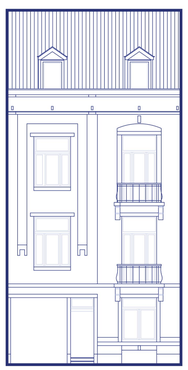




mix







Rue de Bassins, Aderlecht, Brussels

Integration of life and work



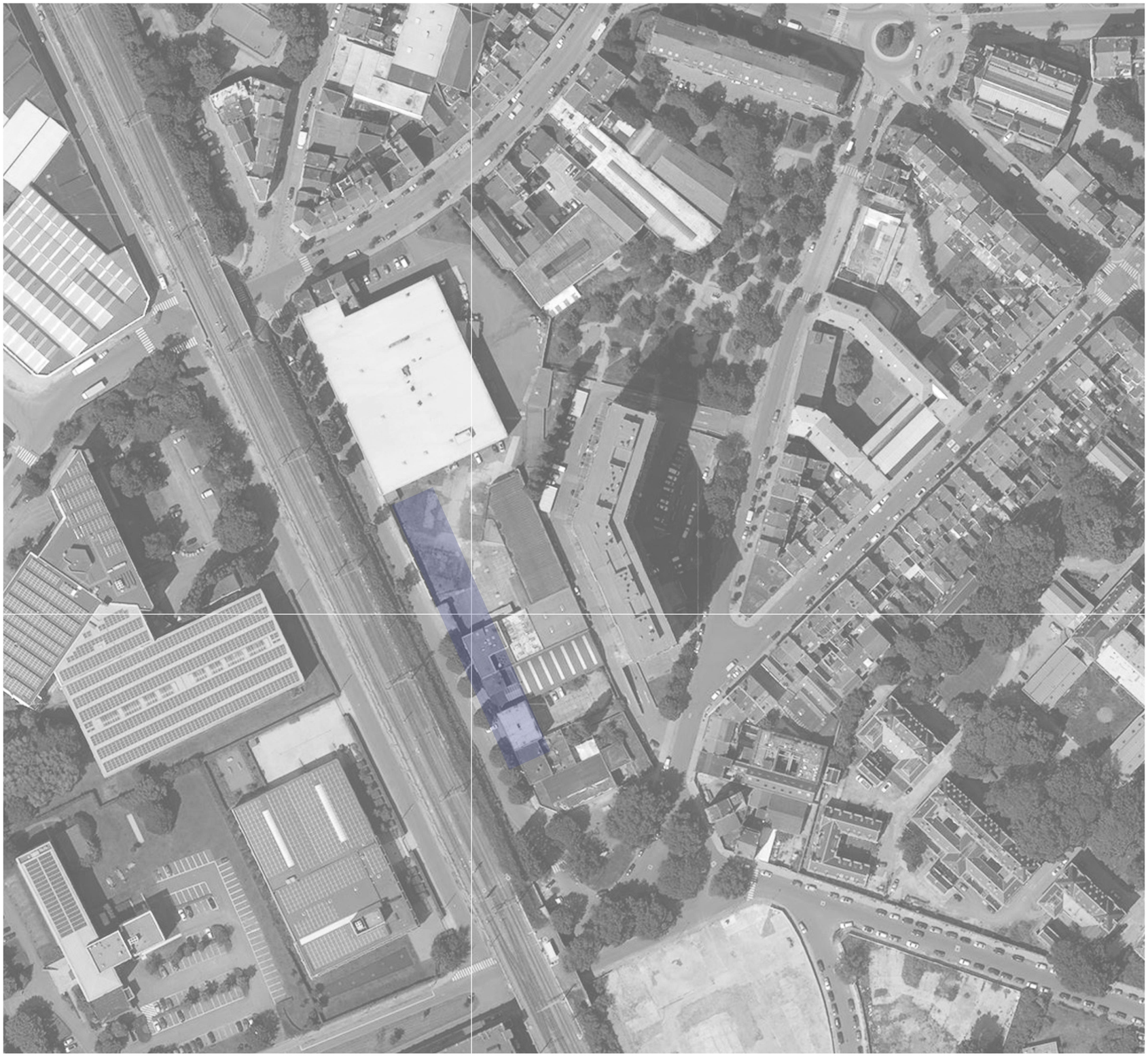


Rue de Bassins, Aderlecht, Brussels

Integration of life and work



Rue de Bassins, Aderlecht, Brussels



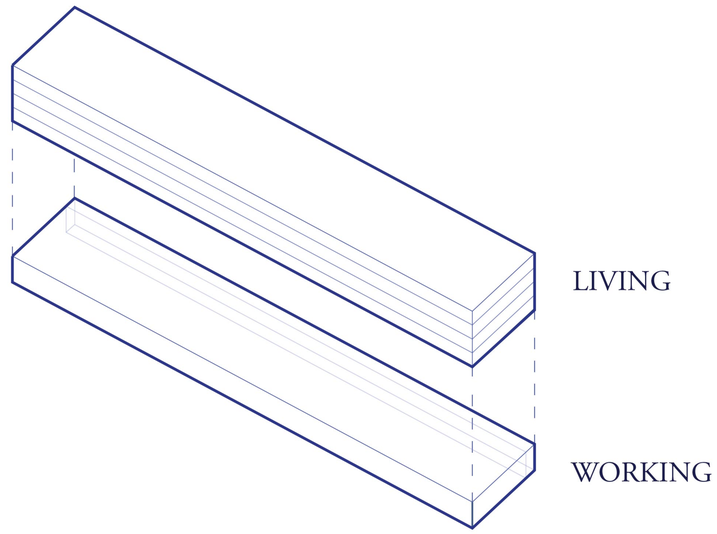
Rue Georges Moreau

Rue des Goujons

Rue Prévinaire

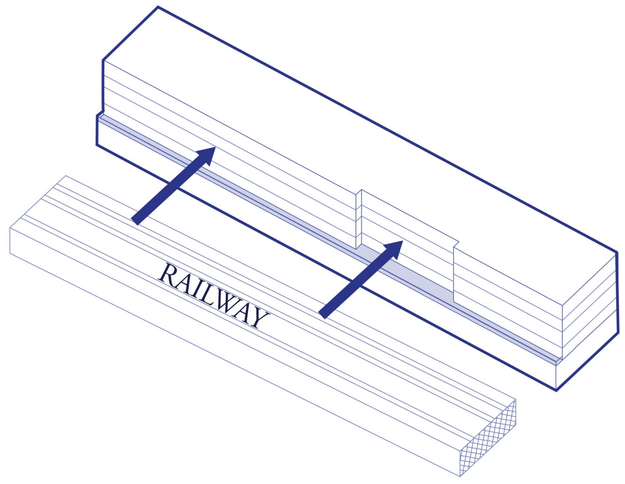
Living & working development

volume evolution



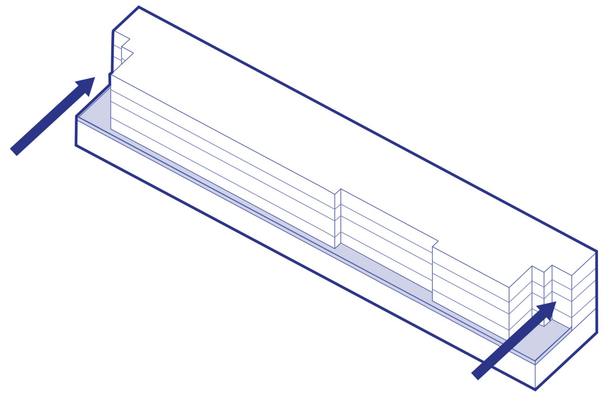
Living & working development

volume evolution



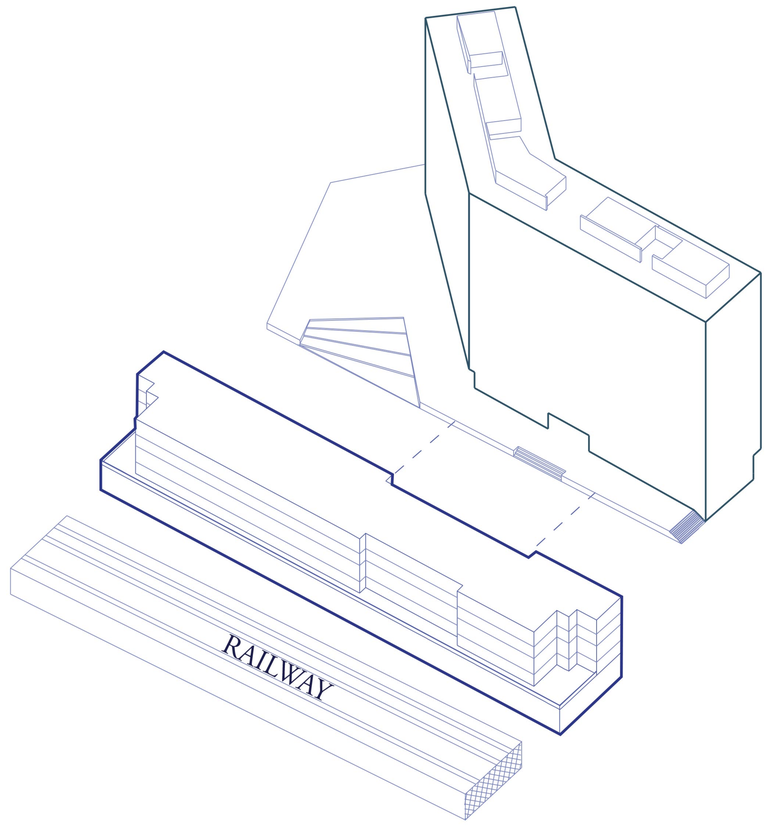
Living & working development

volume evolution



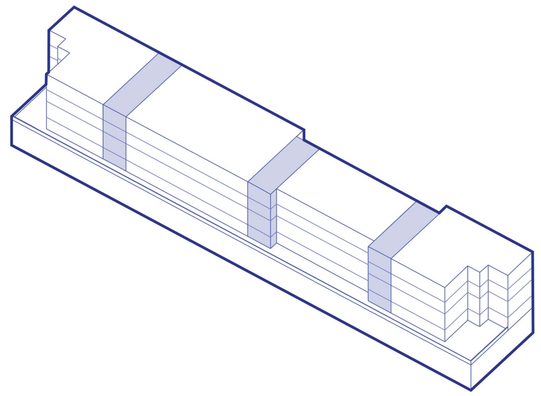
Living & working development

volume evolution



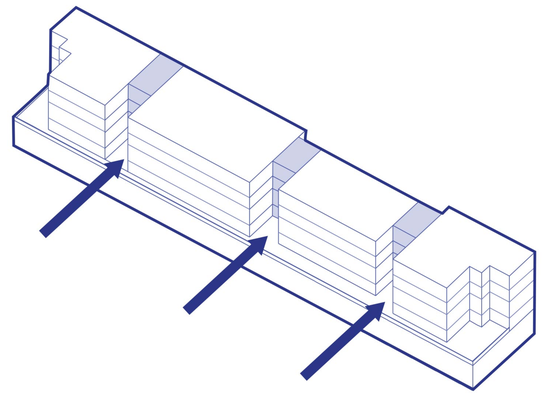
Living & working development

volume evolution



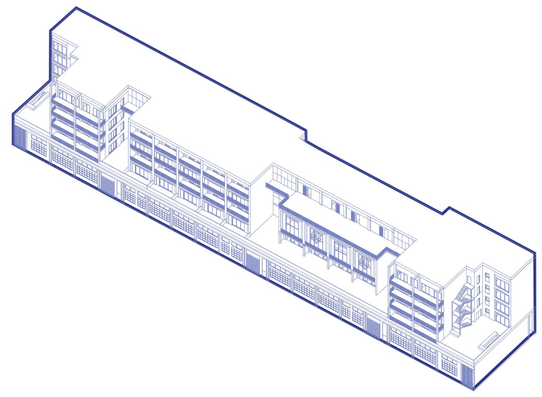
Living & working development

volume evolution



Living & working development

volume evolution



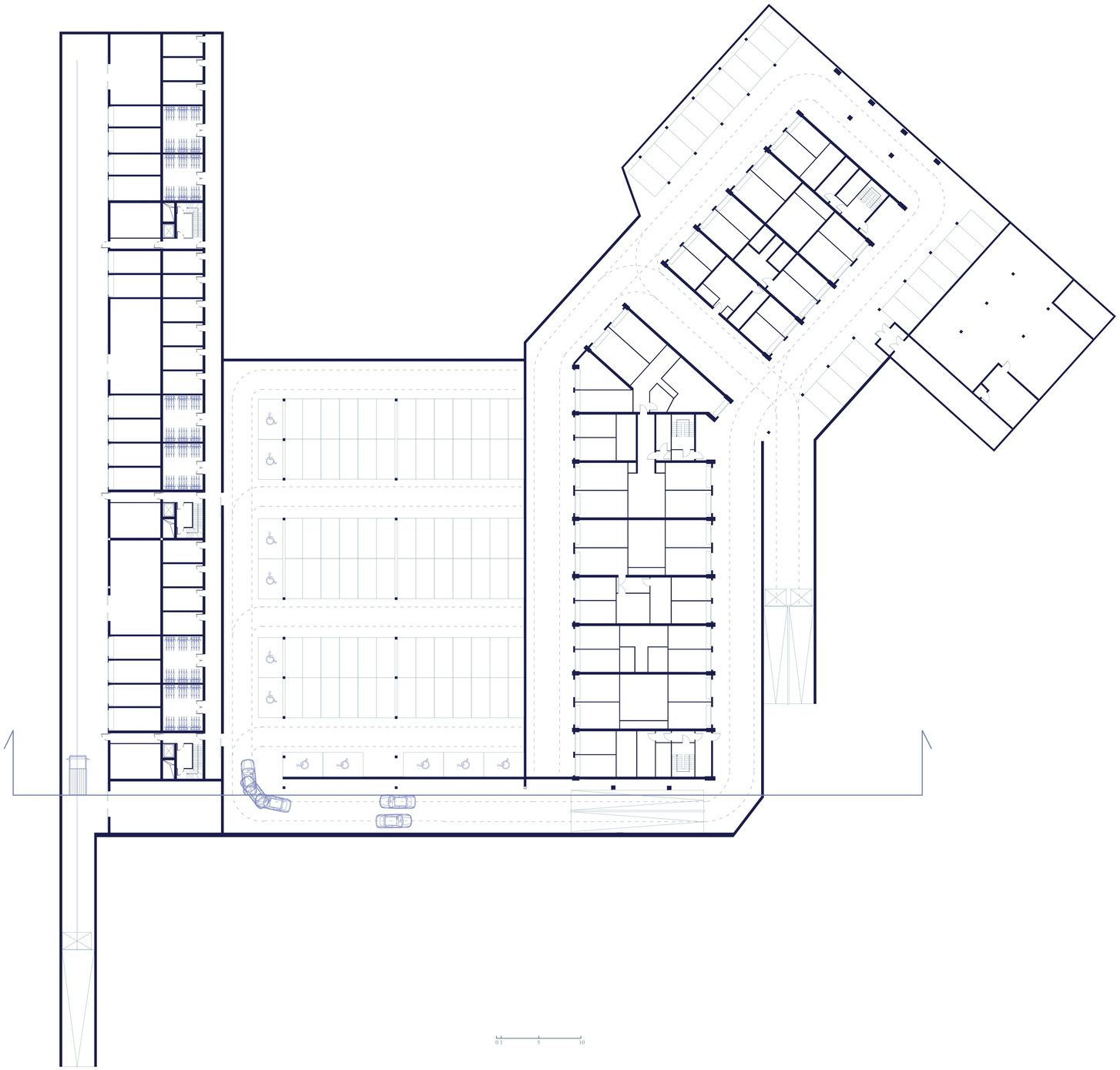
View

back street - Rue Prevanaire



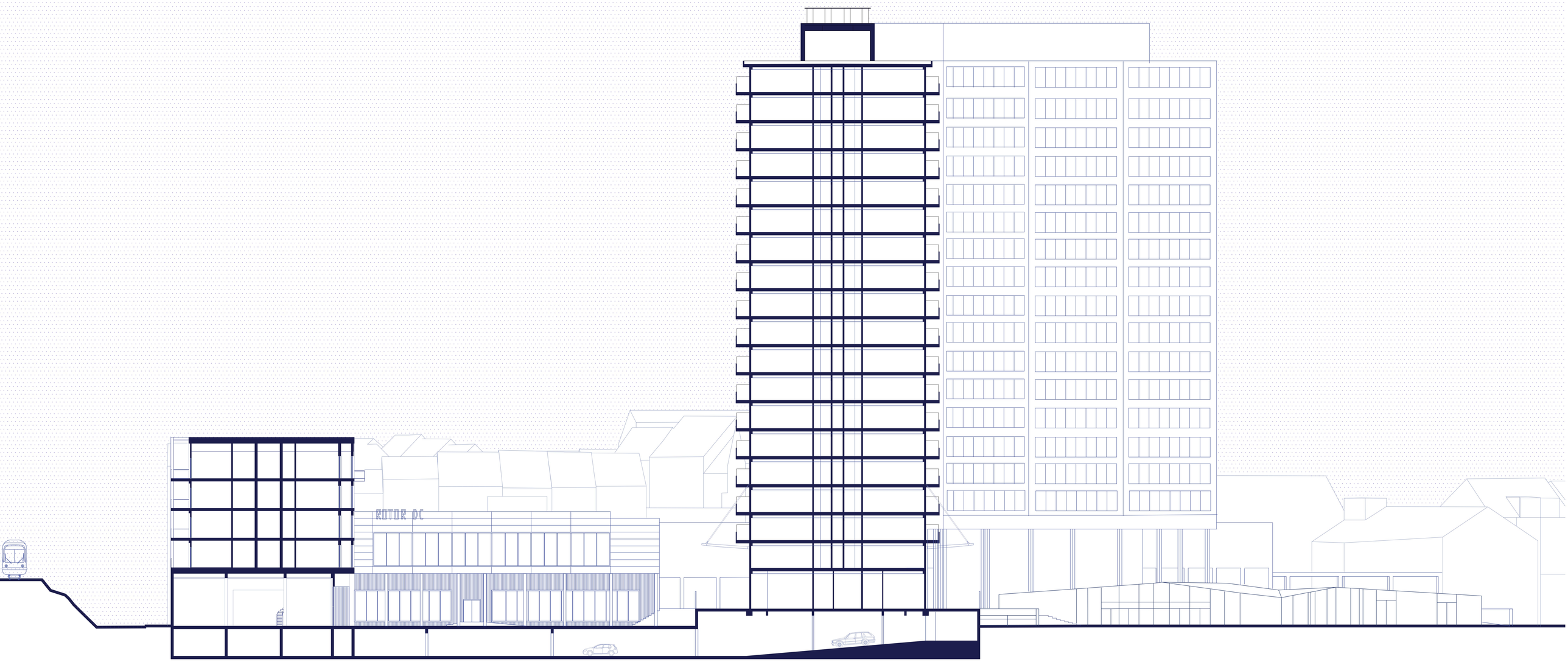
Living & working development

underground parking



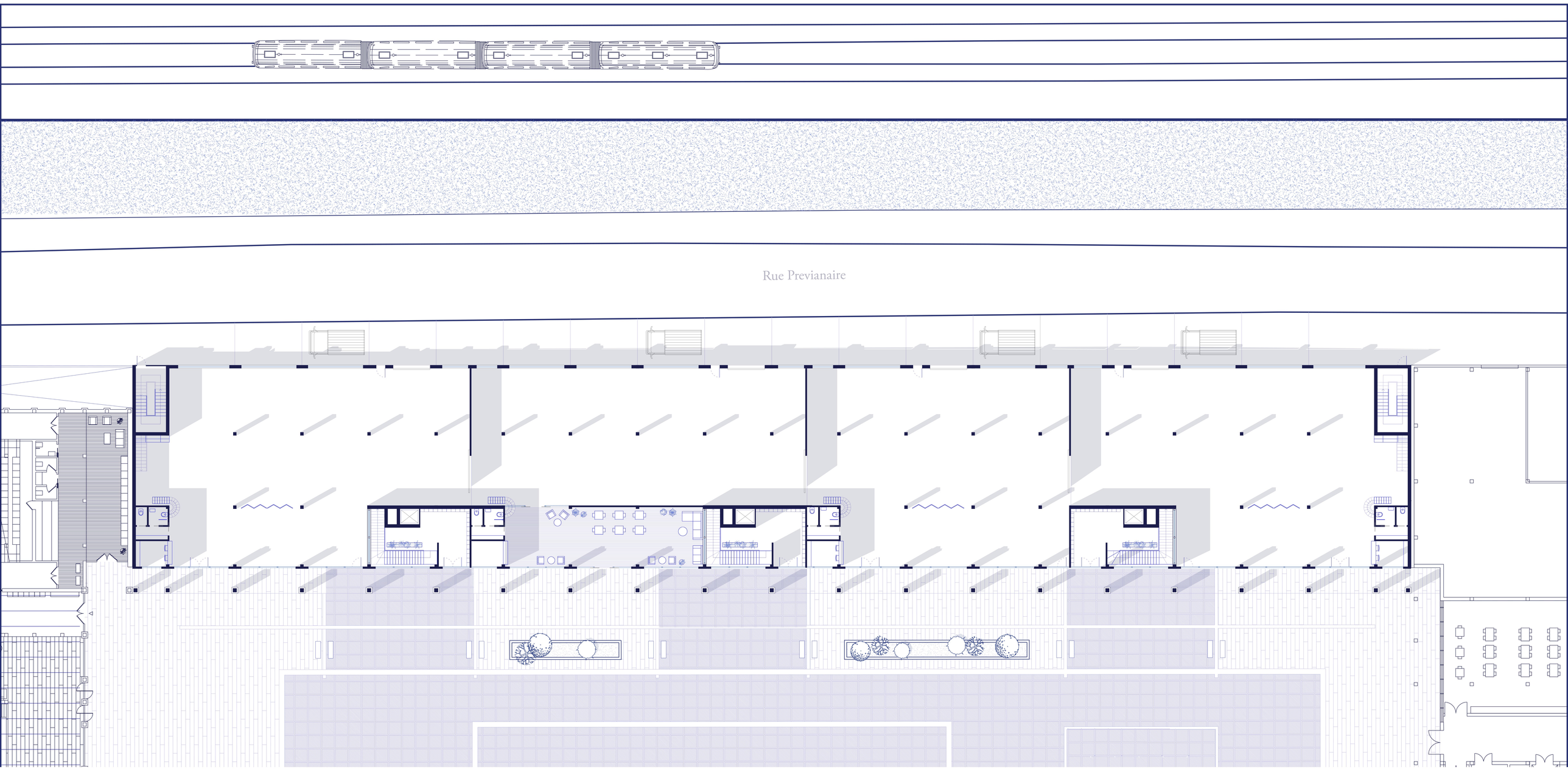
Living & working development

underground parking - section



Living & working development

ground floor plan



View

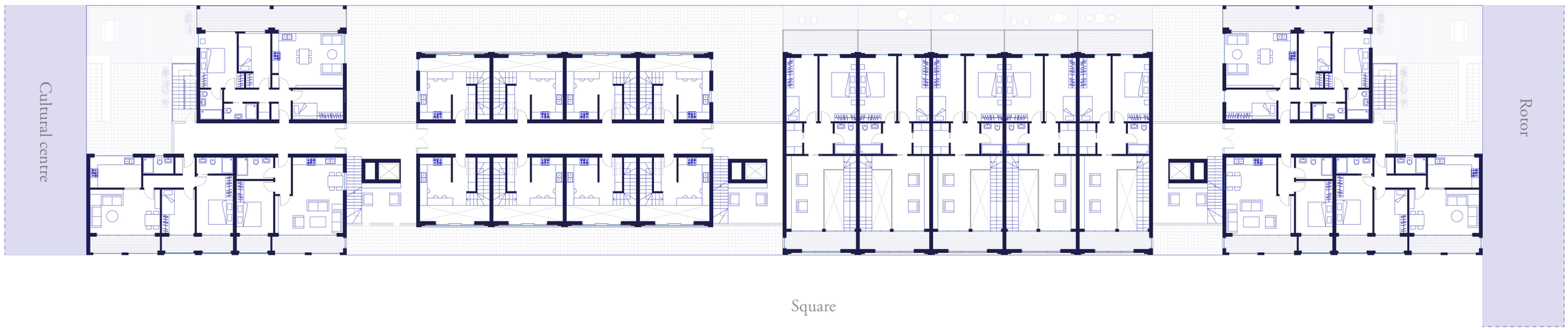
ground floor flexible workspace



Living & working development

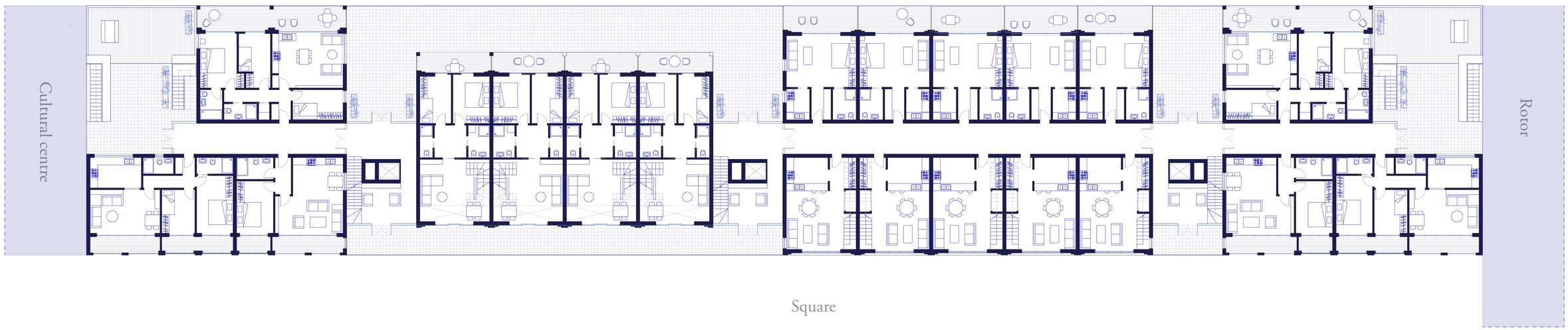
ground floor plan

Rue Previanaire



Square

Rue Previanaire



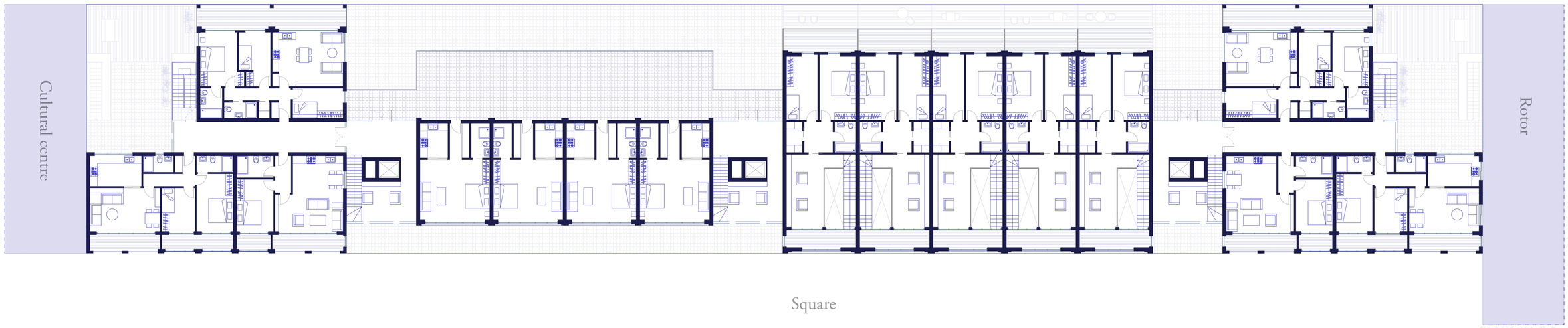
Square

0 1 5 10

Living & working development

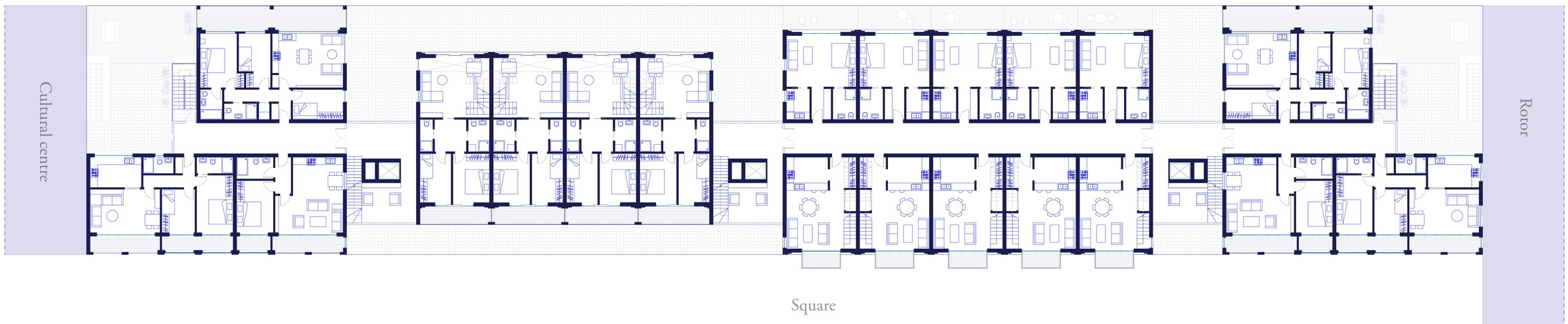
ground floor plan

Rue Previanaire



Square

Rue Previanaire

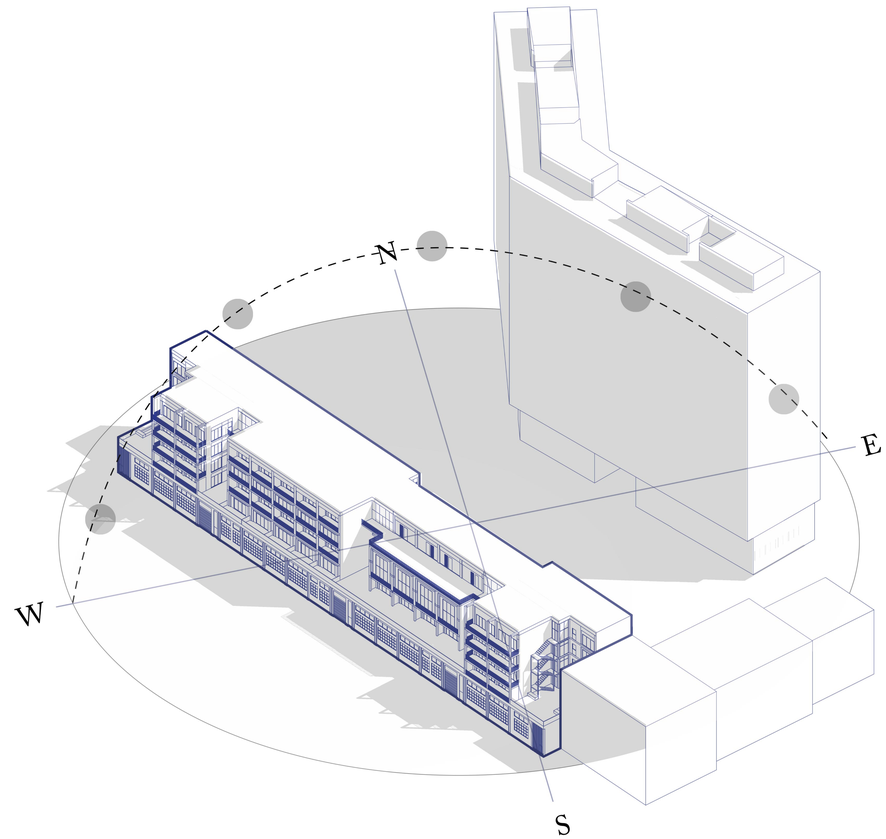


Square

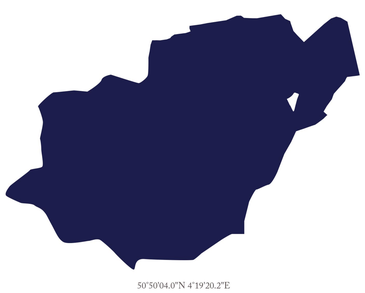
0 1 5 10

Living & working development

Sun path

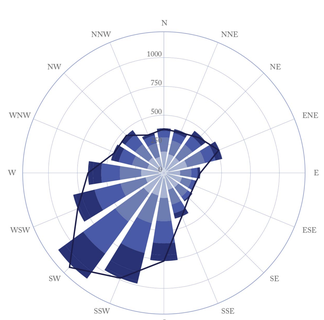


ORIENTATION



50°50'04.0"N 4°19'20.2"E

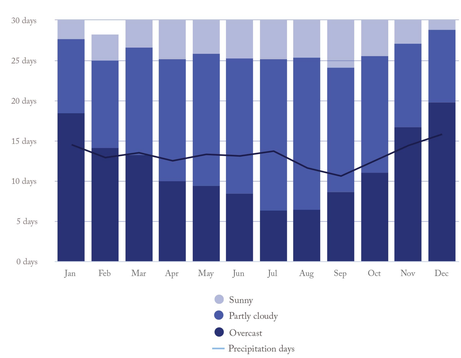
LOCALIZATION



WIND



TEMPERATURE & PRECIPITATION



WEATHER

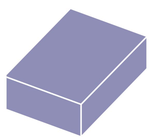
Living & working development

volume distribution

A.
3 bedroom flat (1 double, 2 single)
2,5-sided
single level
area: 82,3m2
(x8)
no. of residents: 32

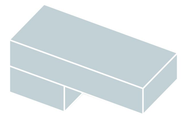


B.
1 bedroom flat (1 double)
1-sided
single level
area: 53,7m2
(x8)
no. of residents: 16

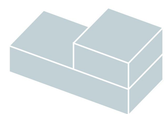


C.
2 bedroom flat (2 double, 1 single)
2-sided
single level
area: 72m2
(x8)
no. of residents: 24

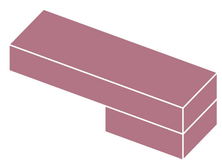
D.
studio
2-sided
single level
area: 44.8m2
(x4)
no. of residents: 4



E1.
3 bedroom flat (1 double, 2 single)
2-sided
duplex
area: 98.3m2
(x4)
no. of residents: 16



E2.
3 bedroom flat (1 double, 2 single)
2-sided
duplex
area: 98.3m2
(x4)
no. of residents: 16



F.
3 bedroom flat (2 double, 1 single)
2-sided
duplex
area: 128.2m2
(x10)
no. of residents: 50



G.
studio
1-sided
area: 40.9m2
(x10)
no. of residents: 10

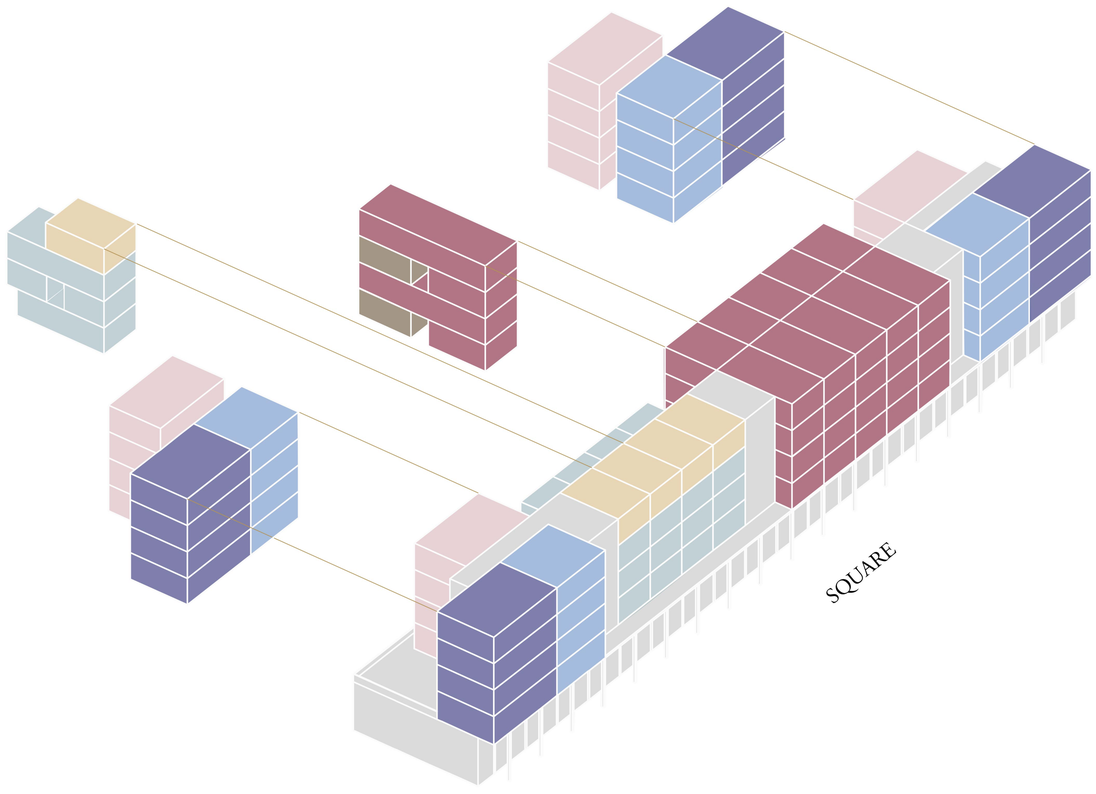
TOTALS

no. of studios: 14 (14 residents)
no. of 1 bedroom flats: 8 (16 residents)
no. of 2 bedroom flats: 8 (24 residents)
no. of 3 bedroom flats: 26 (122 residents)

total no. of residents: 176
(33 relocated from Goujons, thus 143 new residents)

Living & working development

volume distribution



A

B

C

D

E1

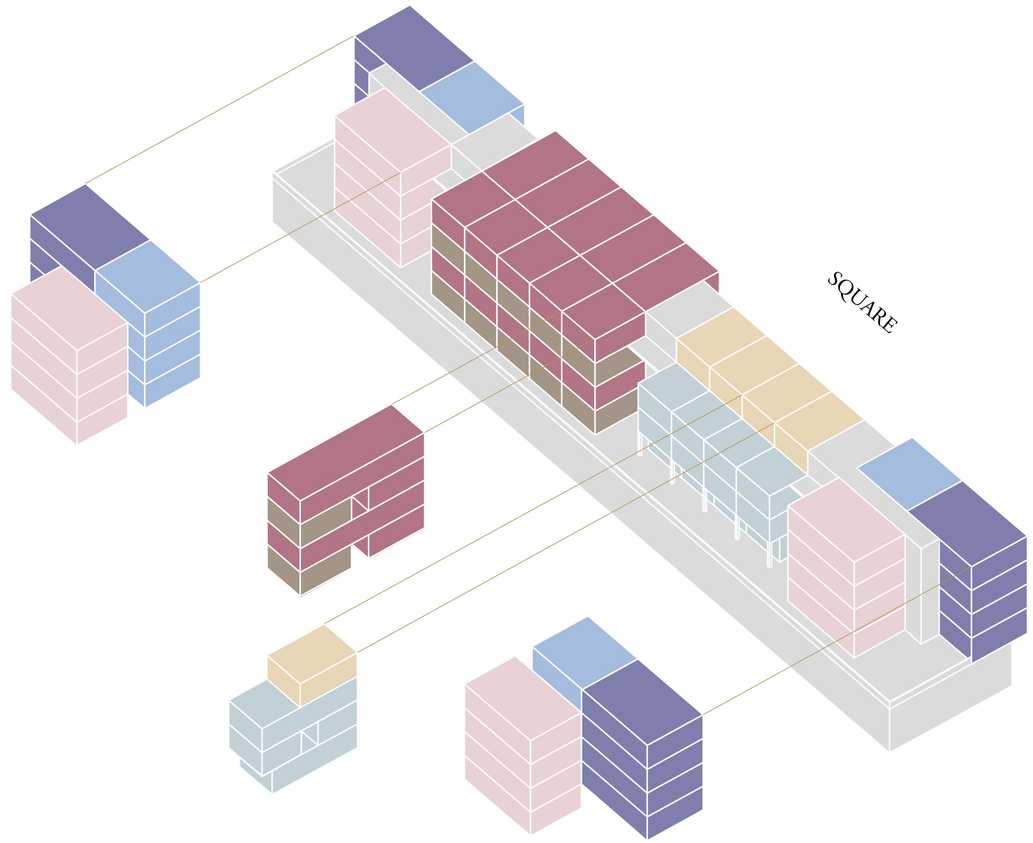
E2

F

G

Living & working development

volume distribution



A

B

C

D

E1

E2

F

G

Living & working development

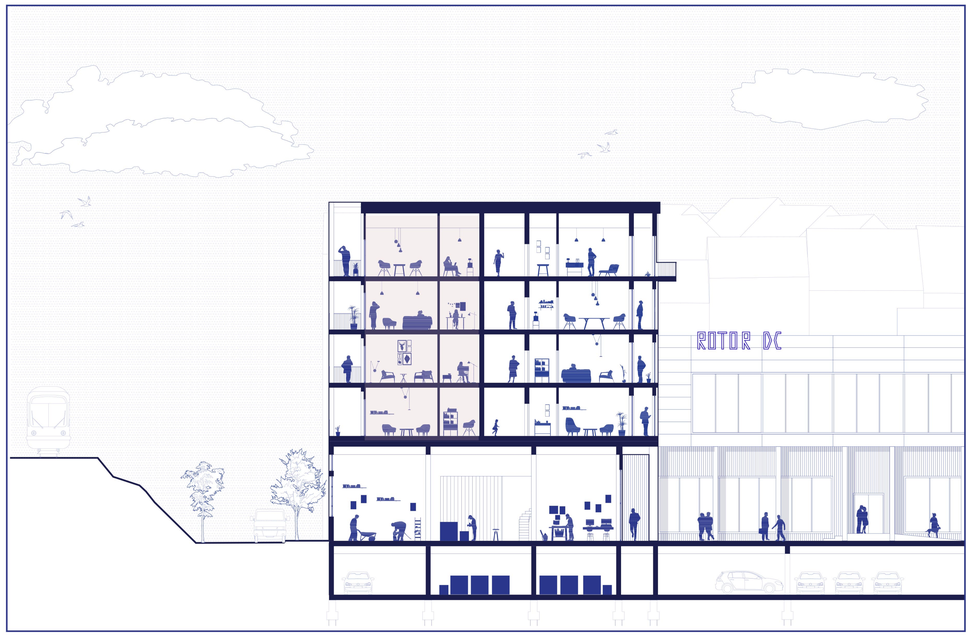
apartment types A & B

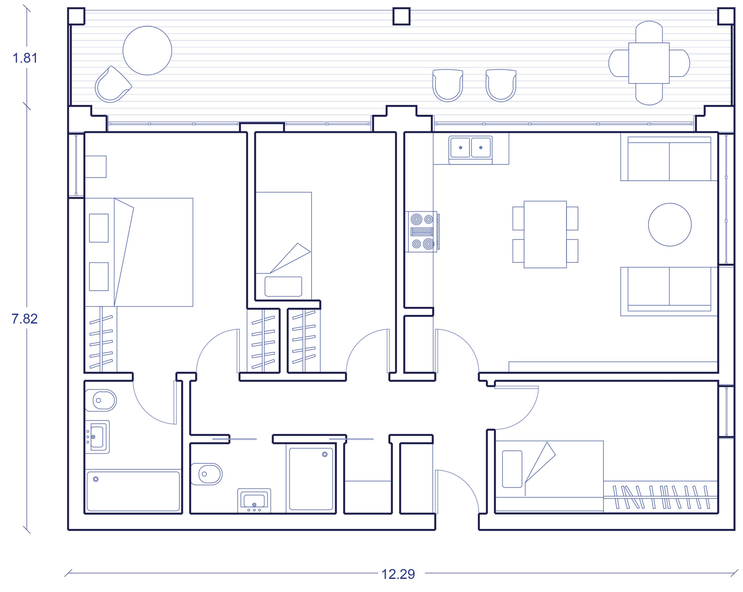


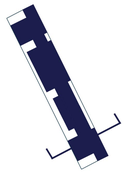
Living & working development

apartment type A

A.
3 bedroom flat (1 double, 2 single)
2,5-sided
single level
area: 82,3m2
(x8)
no. of residents: 32







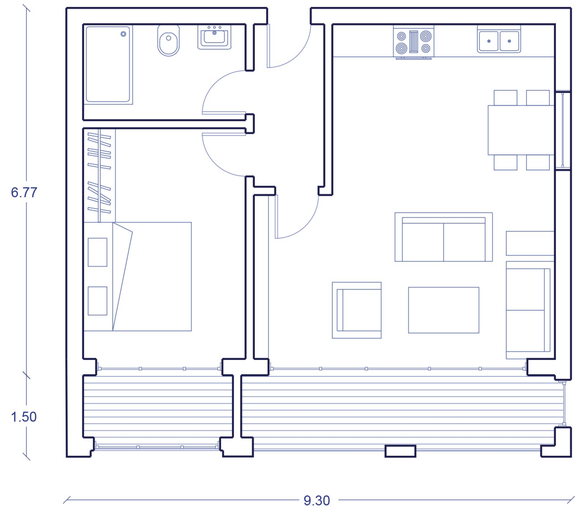
Living & working development

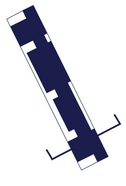
apartment type B



B.
1 bedroom flat (1 double)
1-sided
single level
area: 53,7m2
(x8)
no. of residents: 16







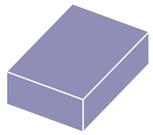
Living & working development

apartment type C



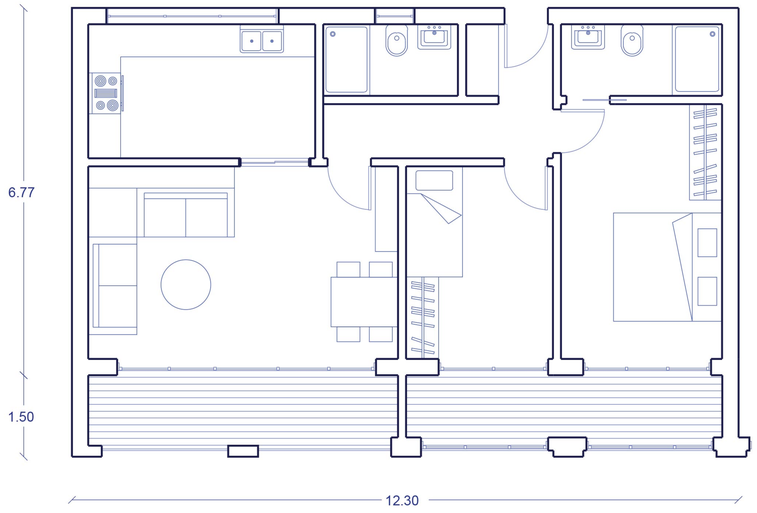
Living & working development

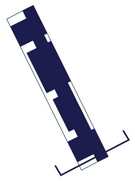
apartment type C



C.
2 bedroom flat (2 double, 1 single)
2-sided
single level
area: 72m2
(x8)
no. of residents: 24

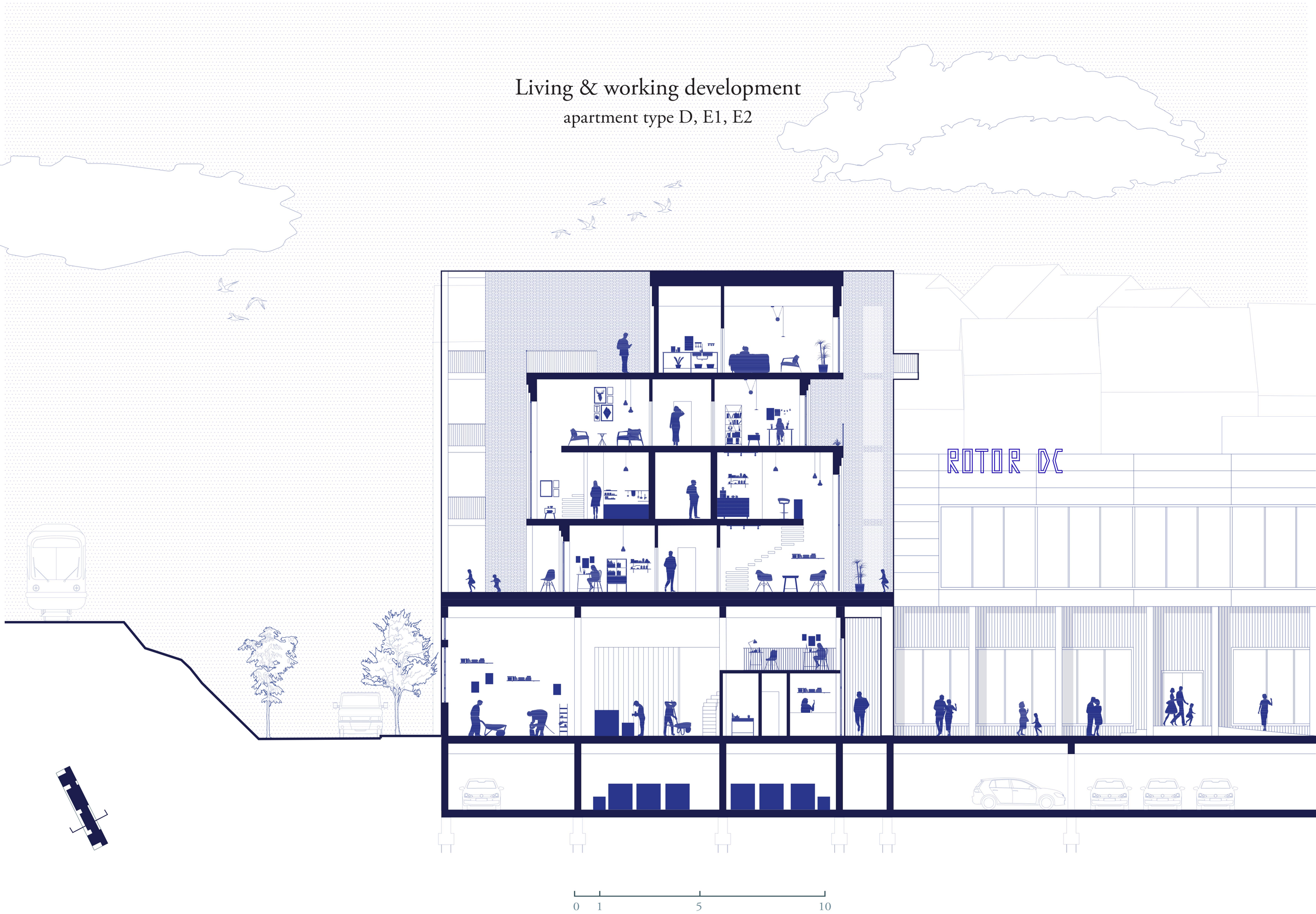






Living & working development

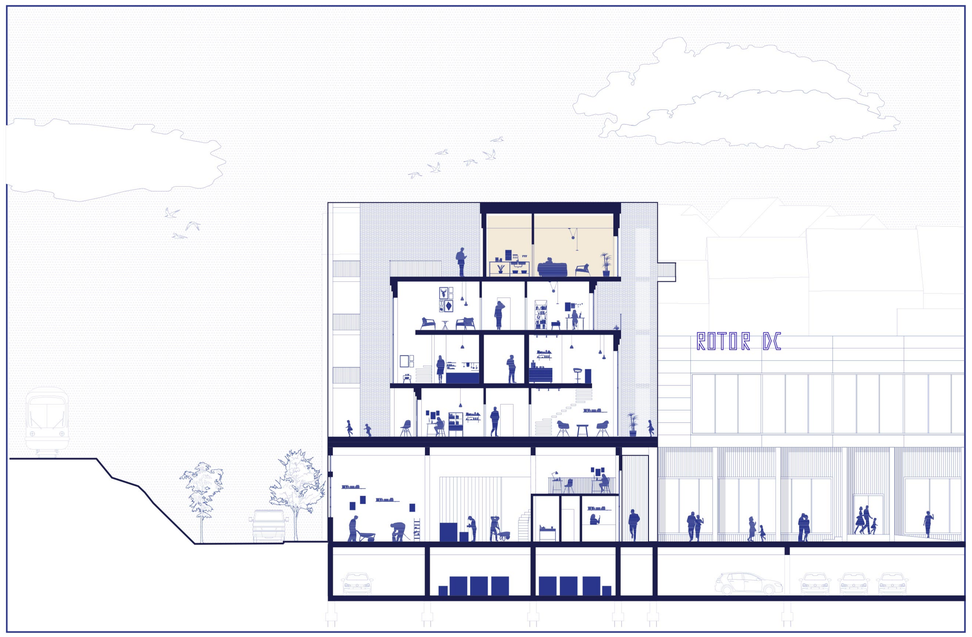
apartment type D, E1, E2

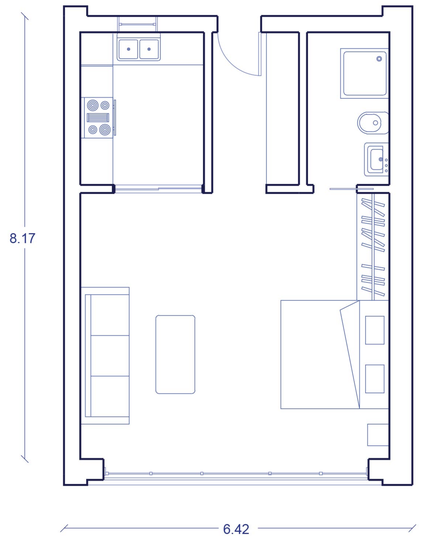


Living & working development

apartment type D

D.
studio
2-sided
single level
area: 44.8m2
(x4)
no. of residents: 4

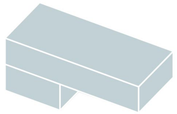






Living & working development

apartment type E1



E1.

3 bedroom flat (1 double, 2 single)

2-sided

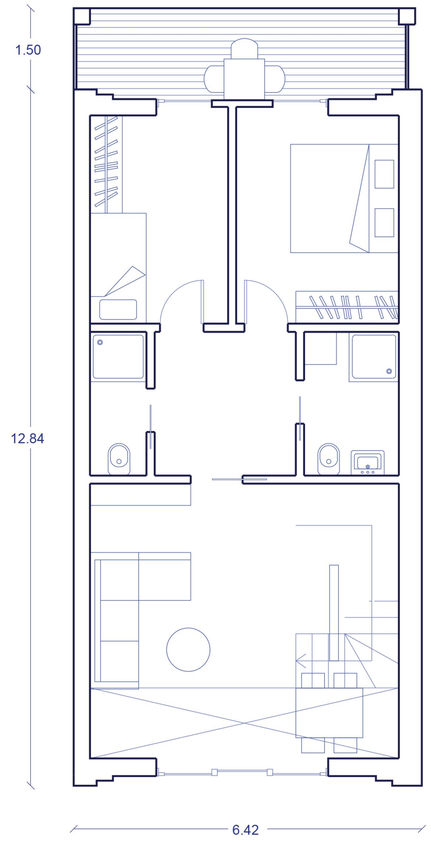
duplex

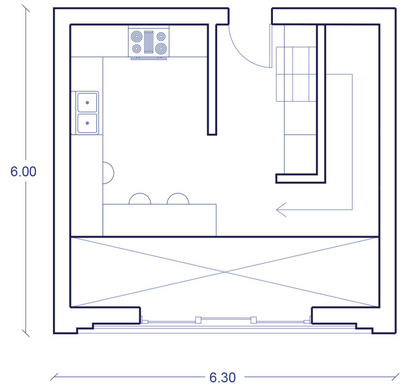
area: 98.3m2

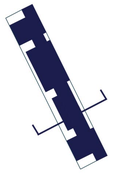
(x4)

no. of residents: 16









Living & working development

apartment type E2



E2.

3 bedroom flat (1 double, 2 single)

2-sided

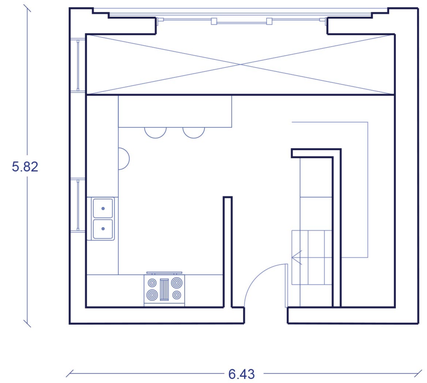
duplex

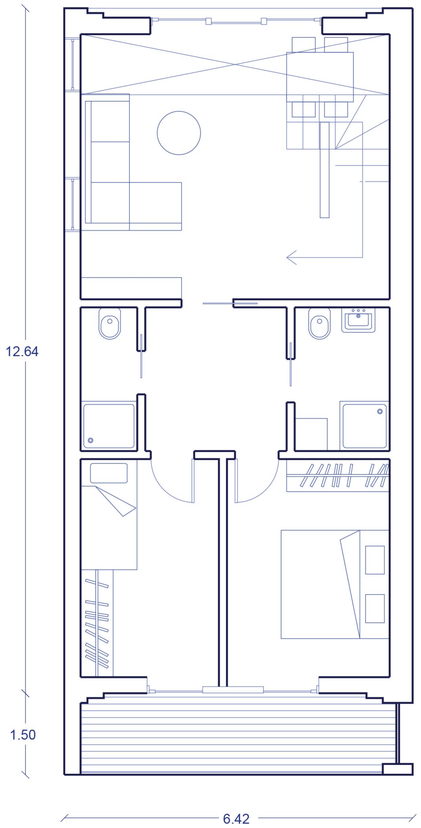
area: 98.3m2

(x4)

no. of residents: 16









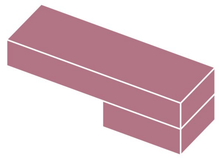
Living & working development

apartment type F & G



Living & working development

apartment type F



F.

3 bedroom flat (2 double, 1 single)

2-sided

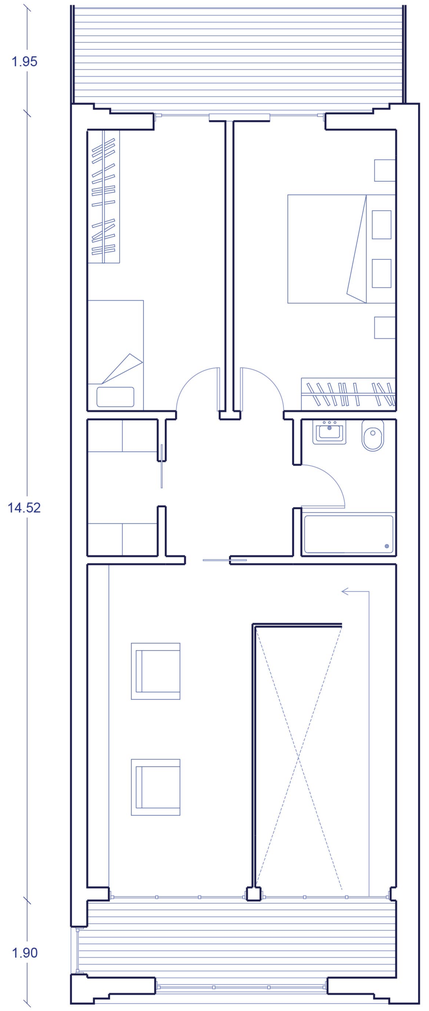
duplex

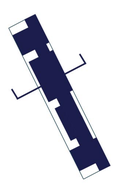
area: 128.2m2

(x10)

no. of residents: 50







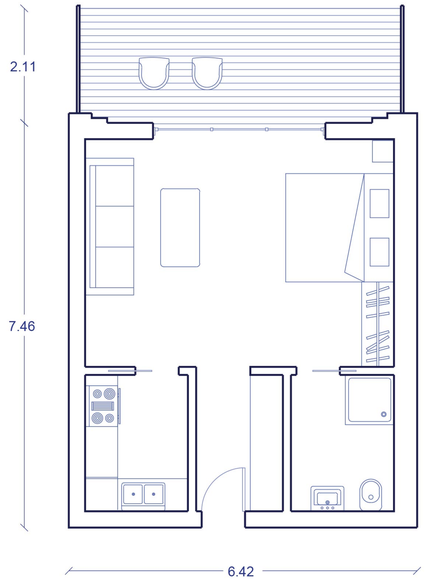
Living & working development

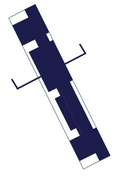
apartment type E



G.
studio
1-sided
area: 40.9m2
(x10)
no. of residents: 10

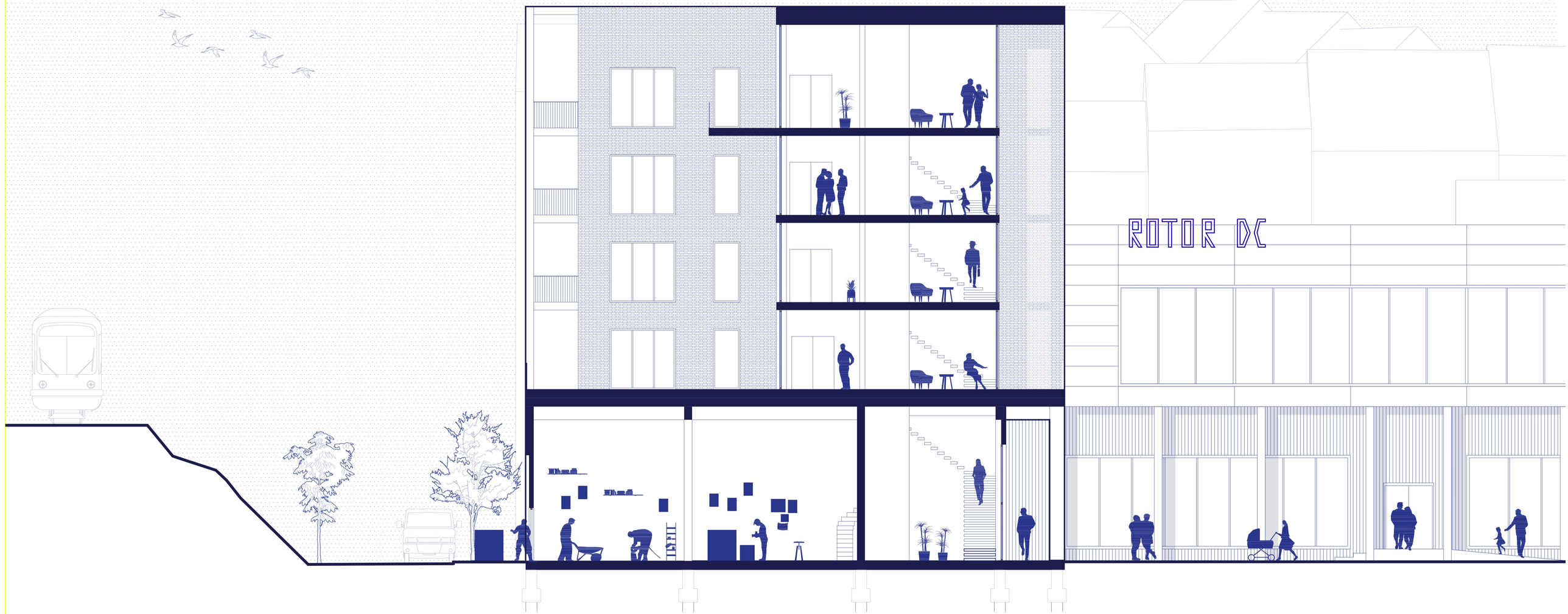




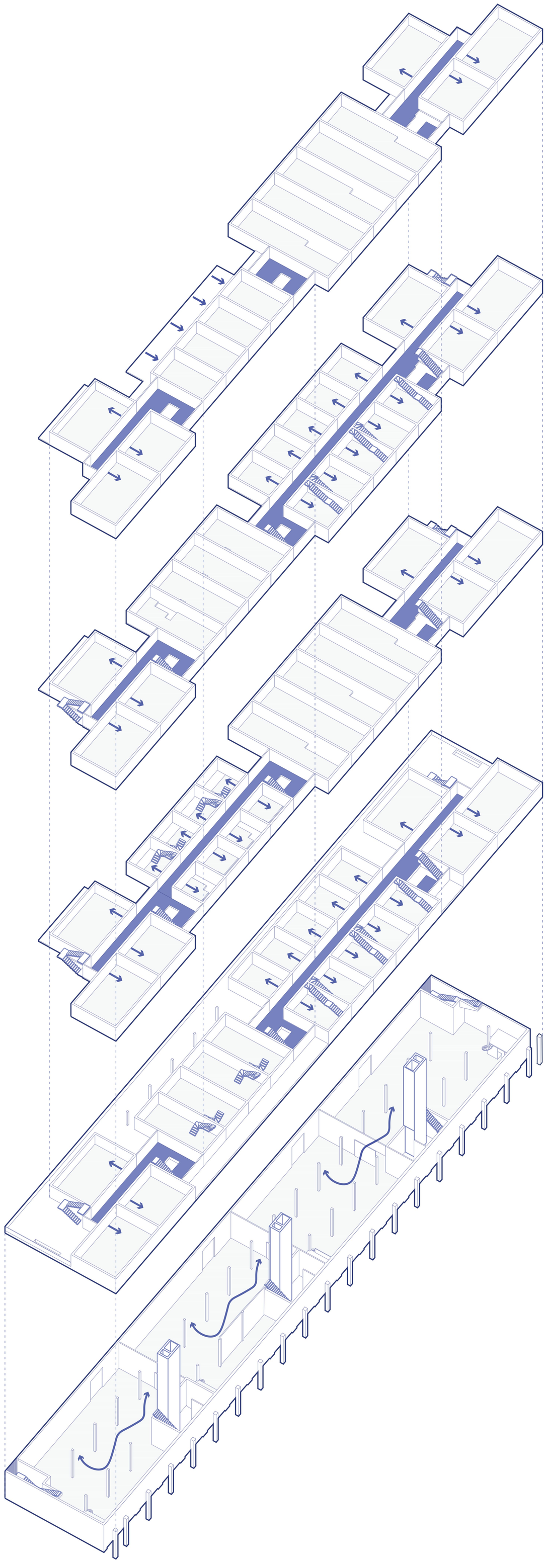


Living & working development

apartment type F & G

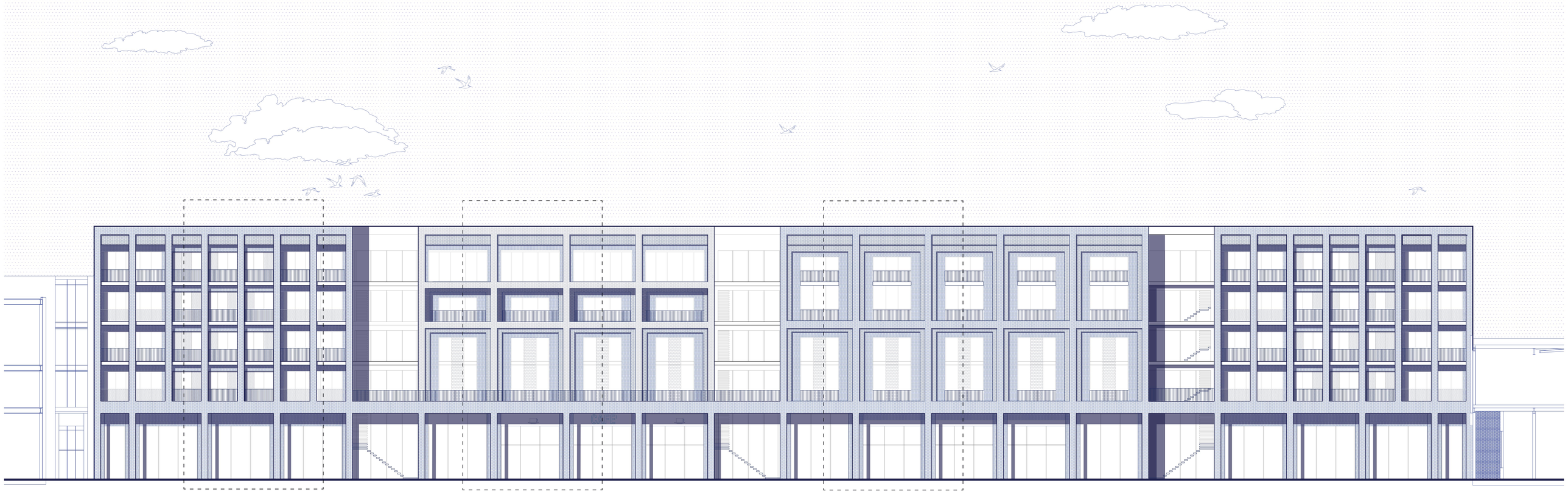


Living & working development
circulation



Living and Working development

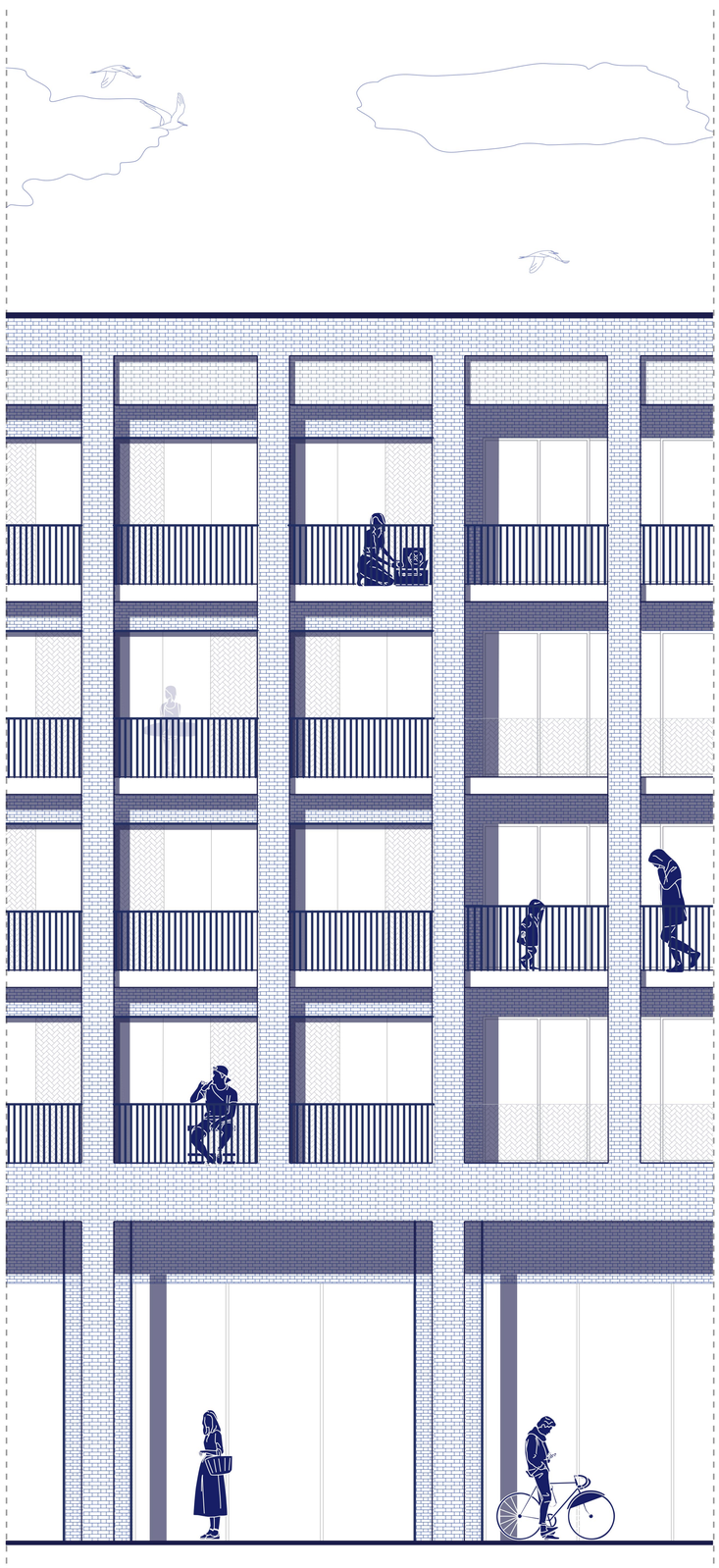
square elevation

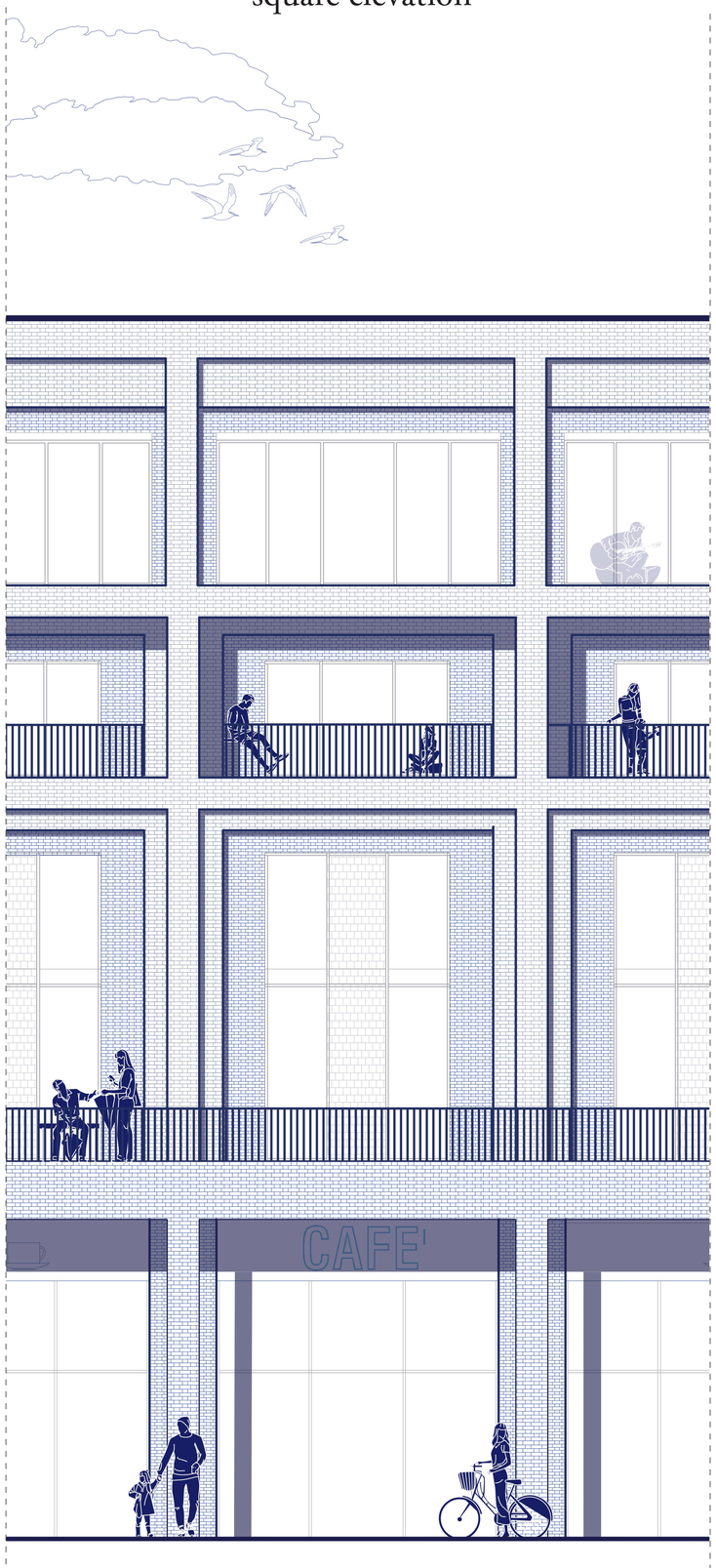


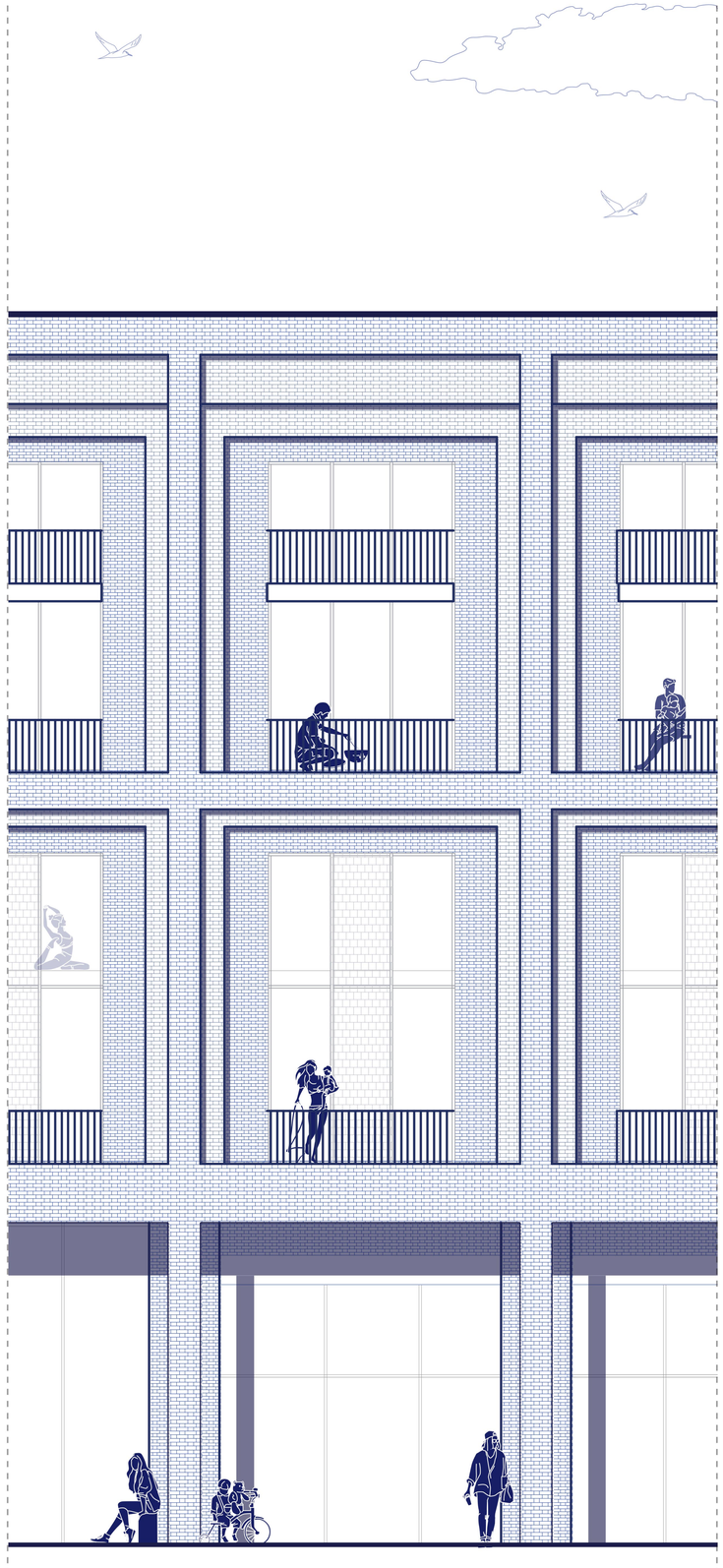
0 1 5 10

Living and Working development

square elevation







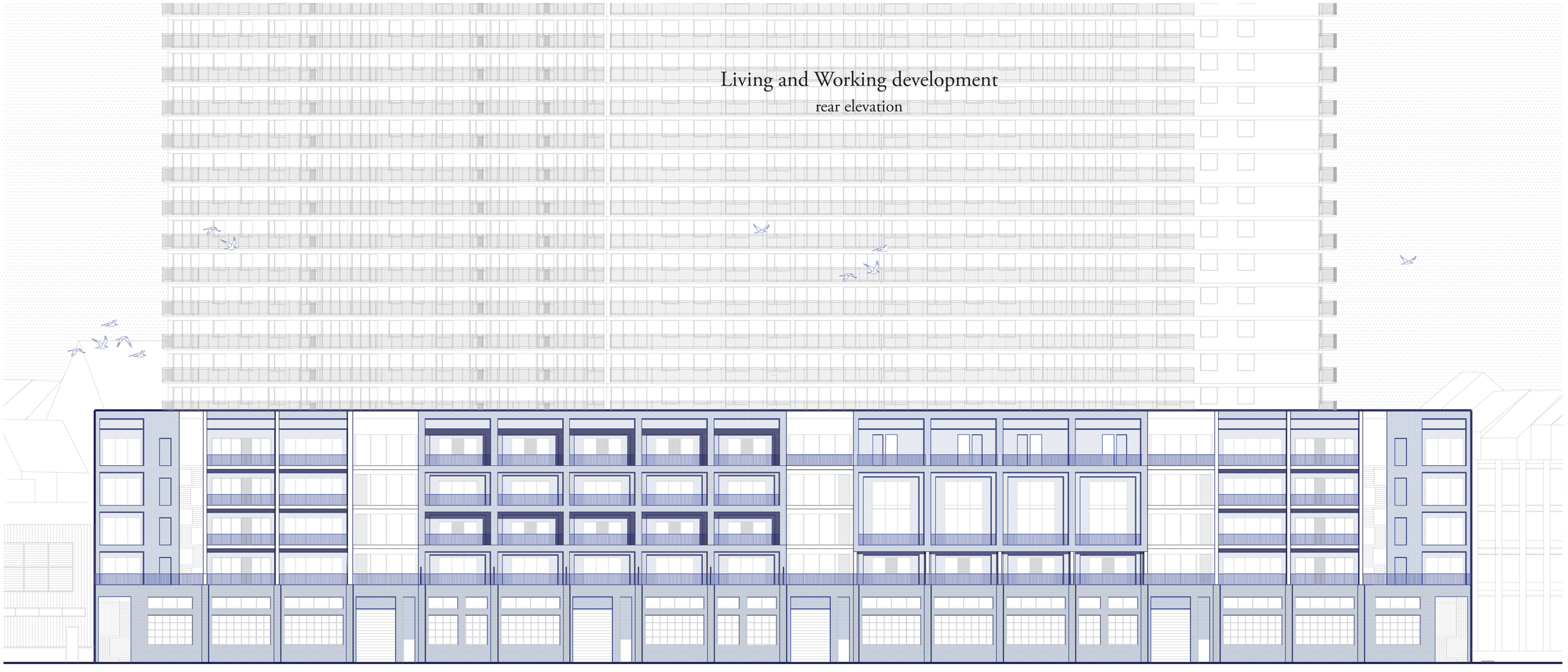
Approach

square entrance



Living and Working development

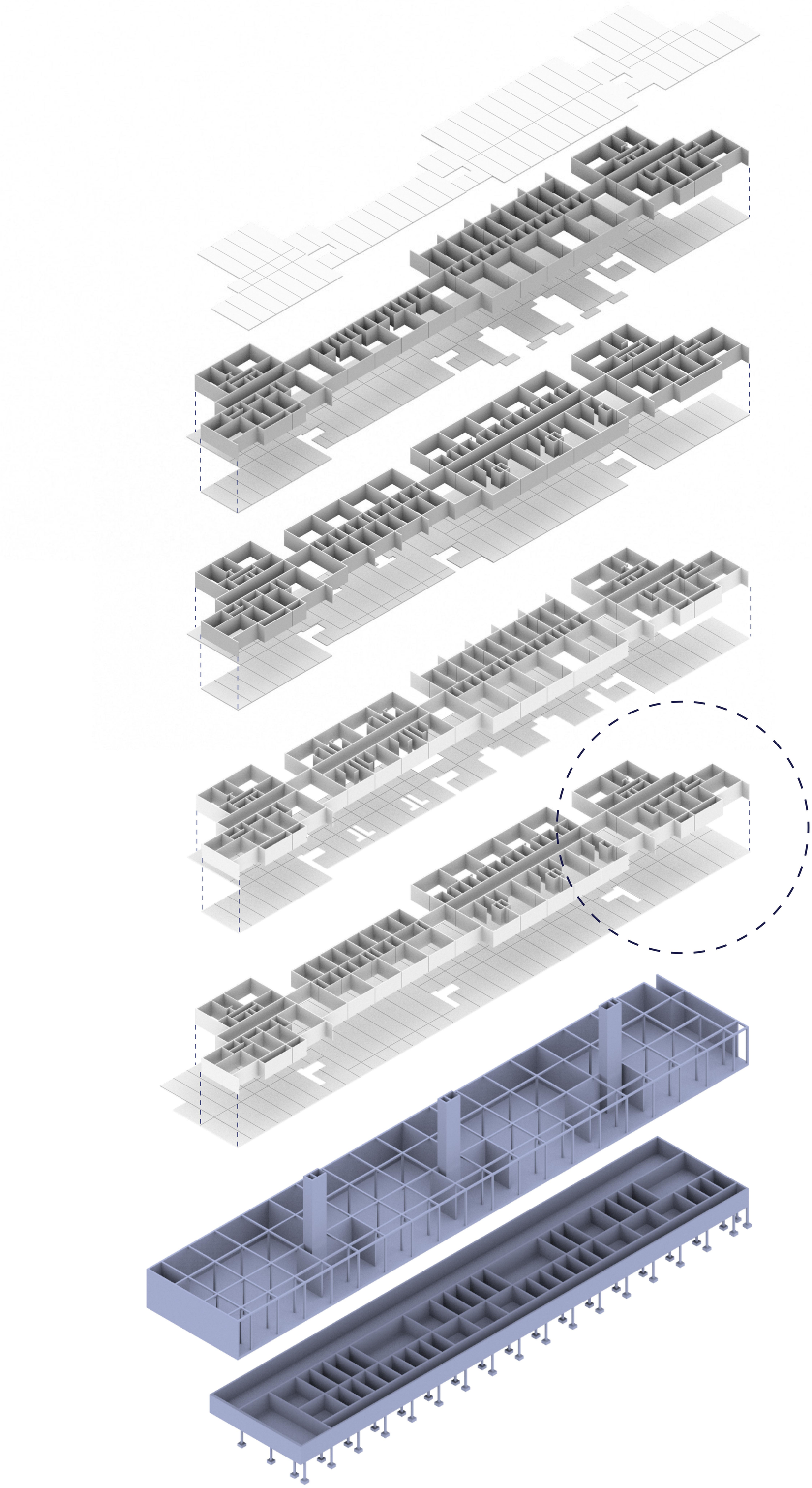
rear elevation



0 1 5 10

Living & working development

structure



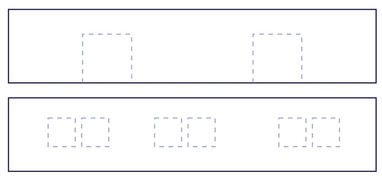
Living & working development

structure

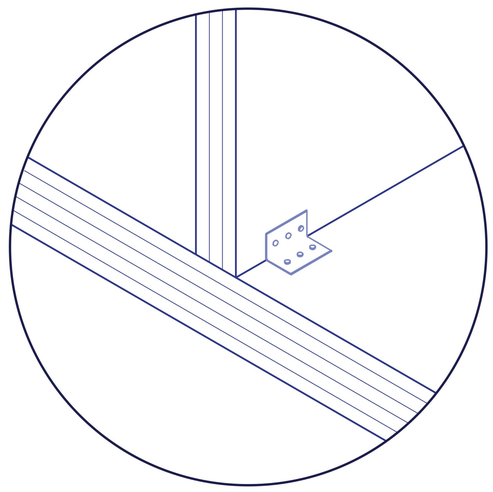




CLT panels
maximum sizes



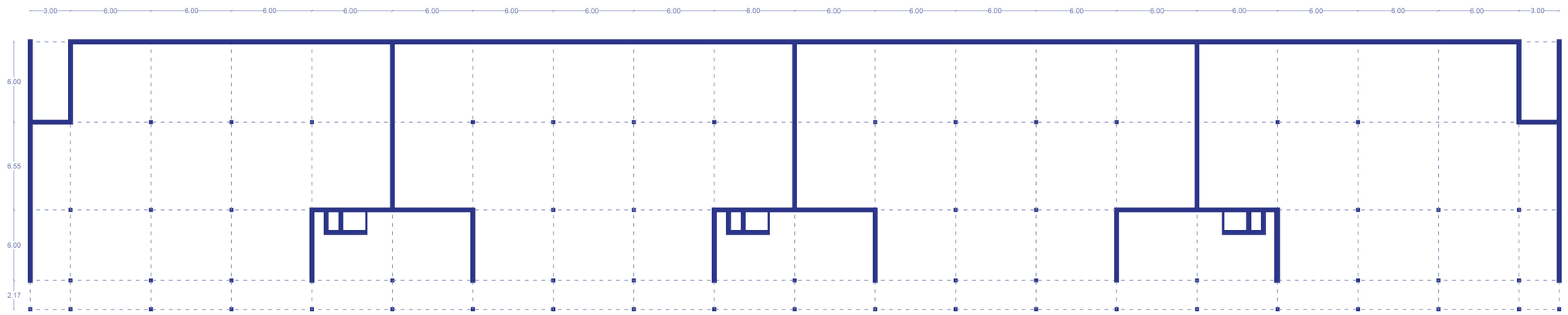
CNC cut openings

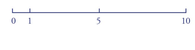


Floors and walls are lifted in place and joined together with metal brackets and screws

Living & working development

structure







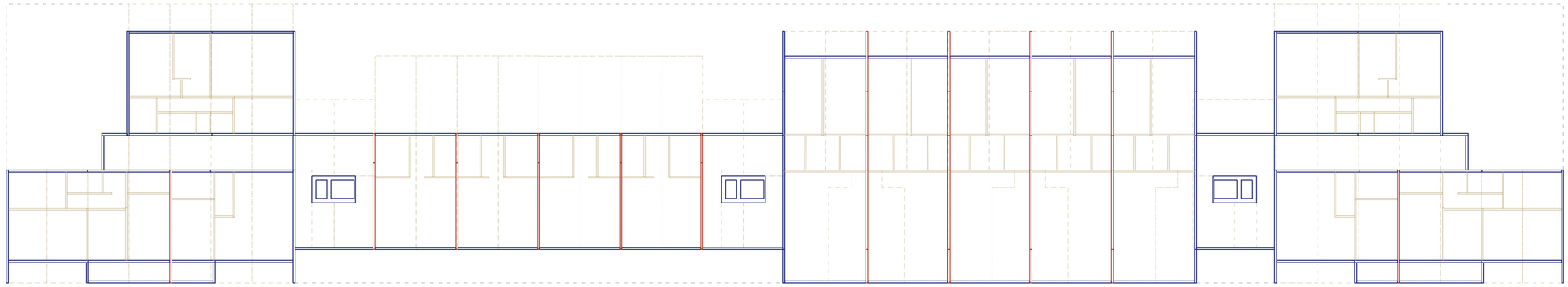
Living & working development

structure

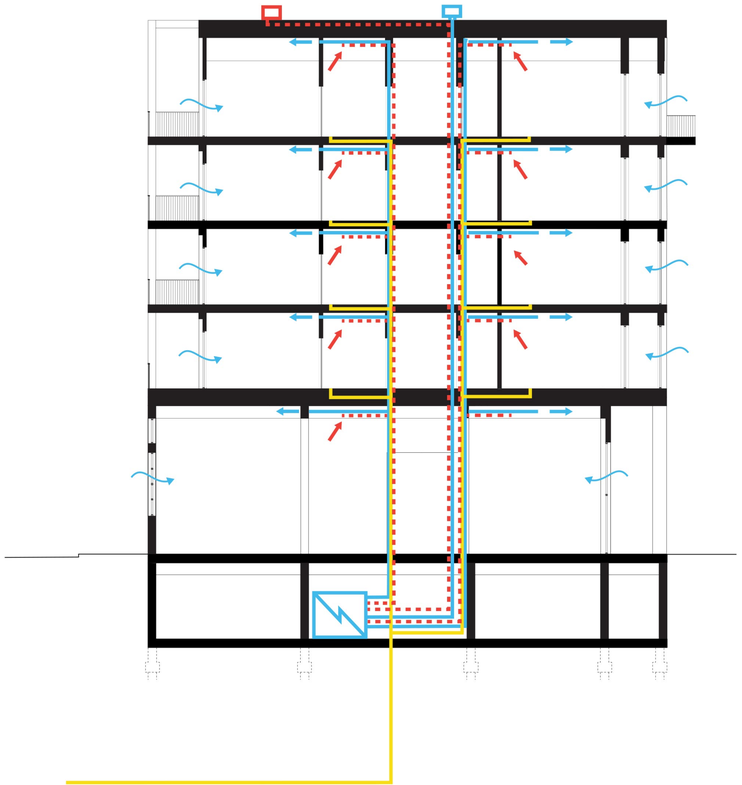
OUTSIDE WALLS

PARTITION WALLS

INSIDE WALLS

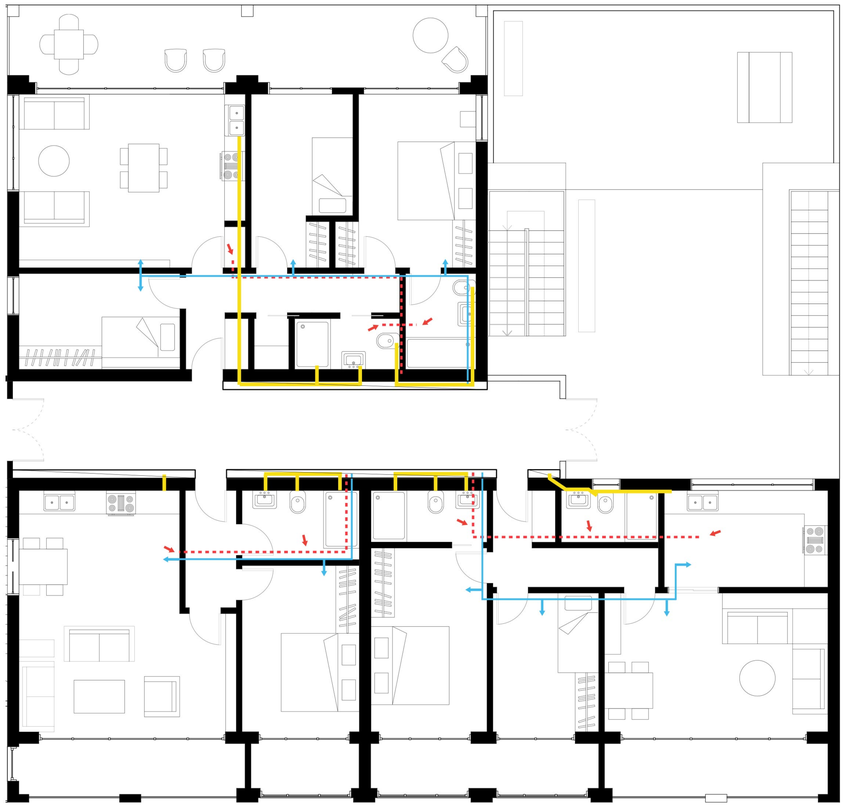


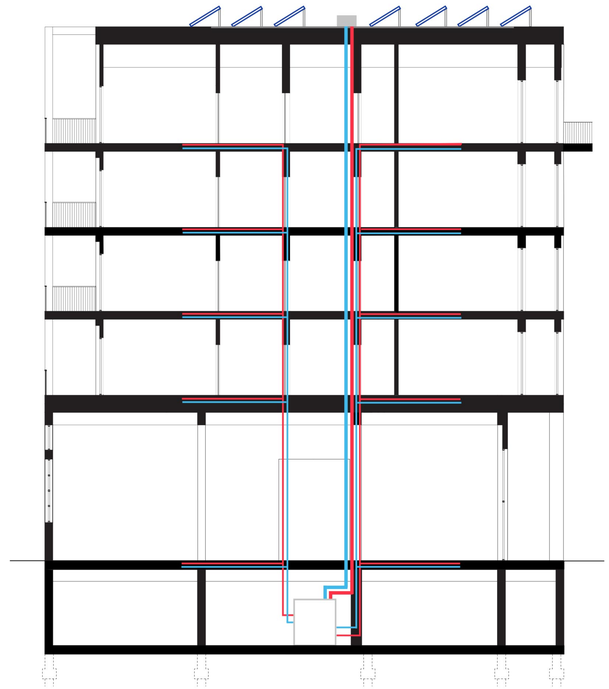
Climate



Ventilation

- sewage
- fresh air (heat recovery system)
- exhaust air (heat recovery system)
- natural ventilation

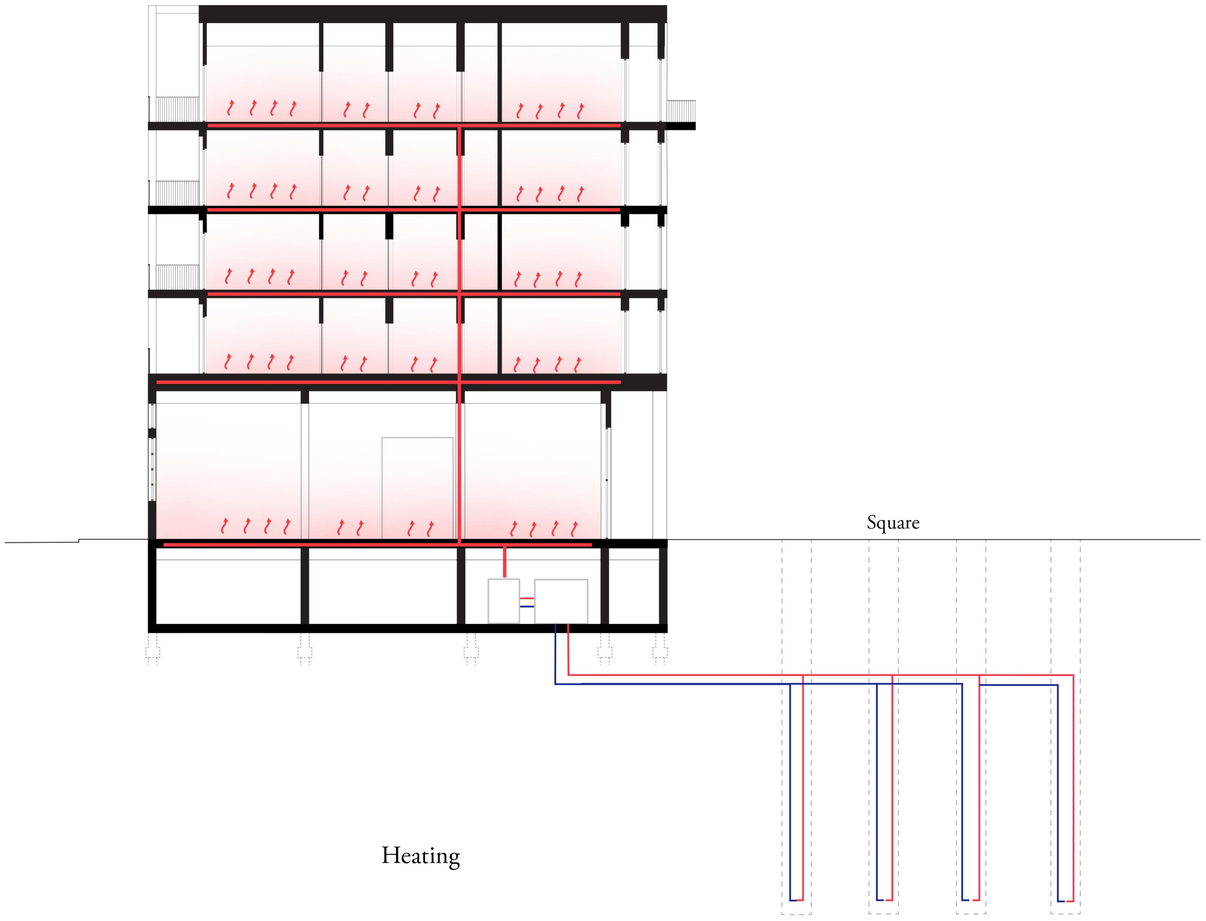




Electricity

- internal house wiring

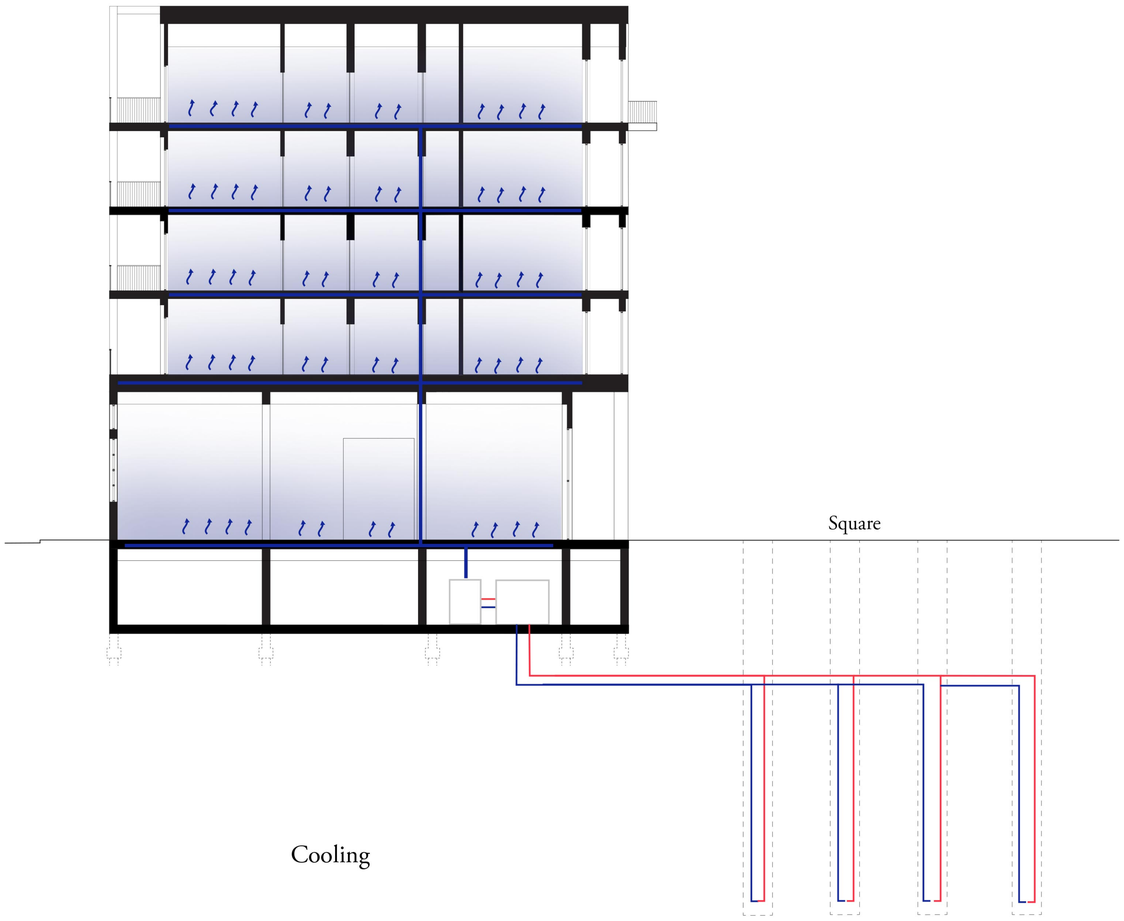
Climate



Heating

closed loop system tubes, vertically installed

hot water
cold water



Cooling

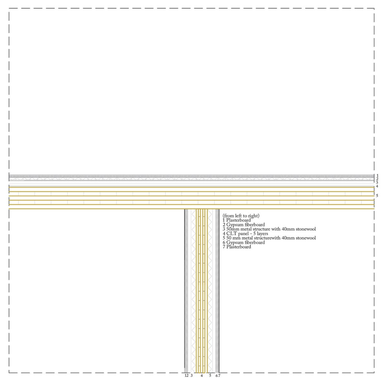
closed loop system tubes, vertically installed

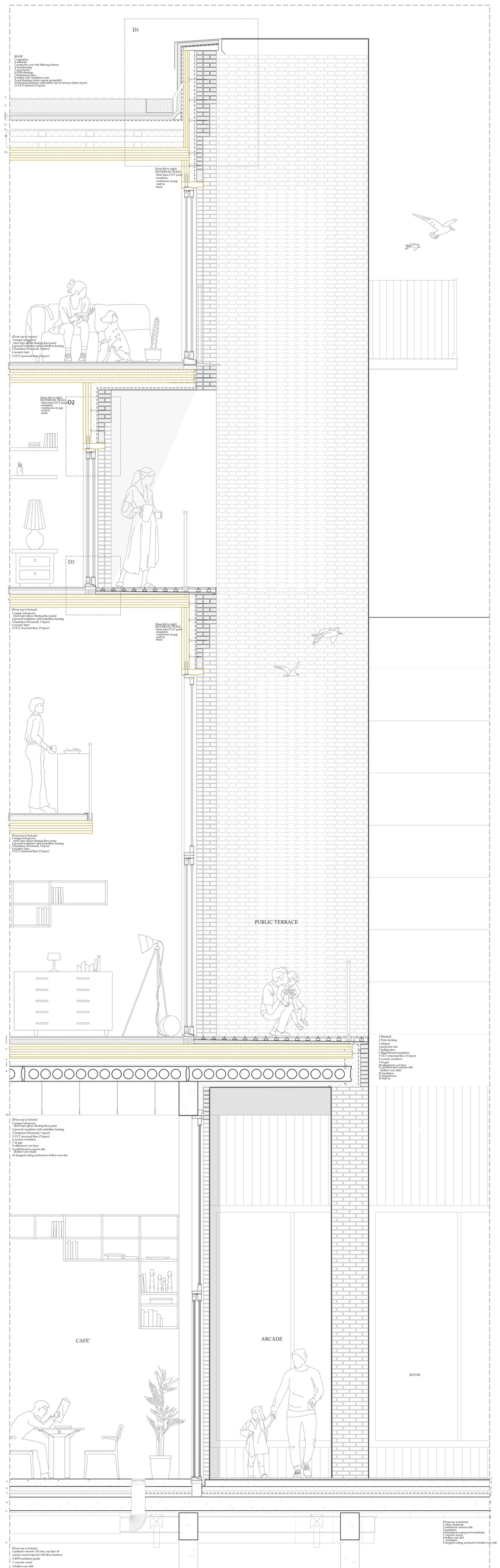
hot water
cold water

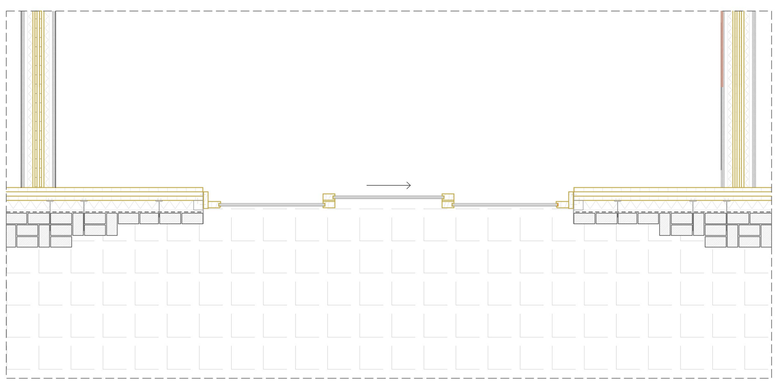
Living and Working development

facade detailed section 1:20



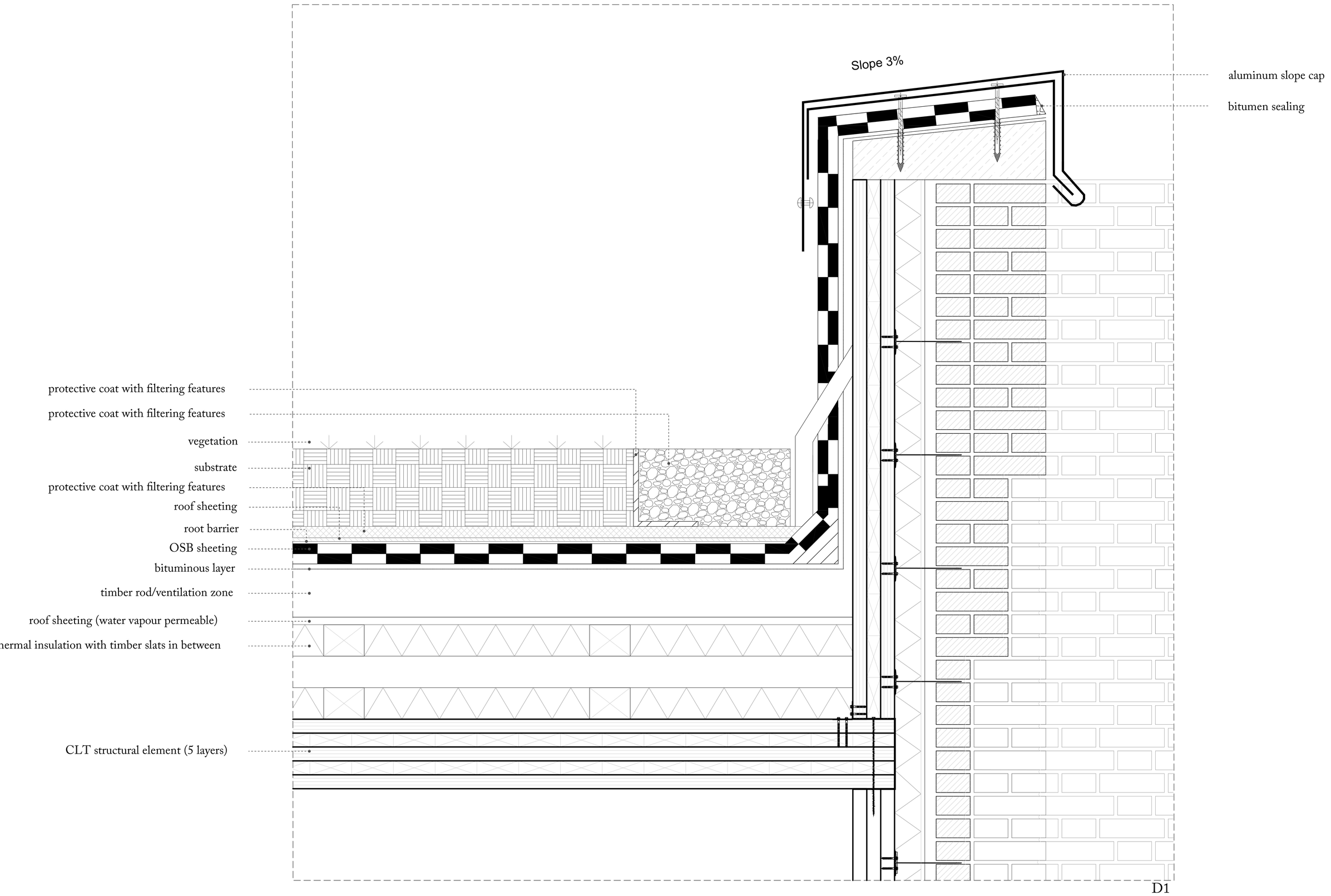






Living and Working development

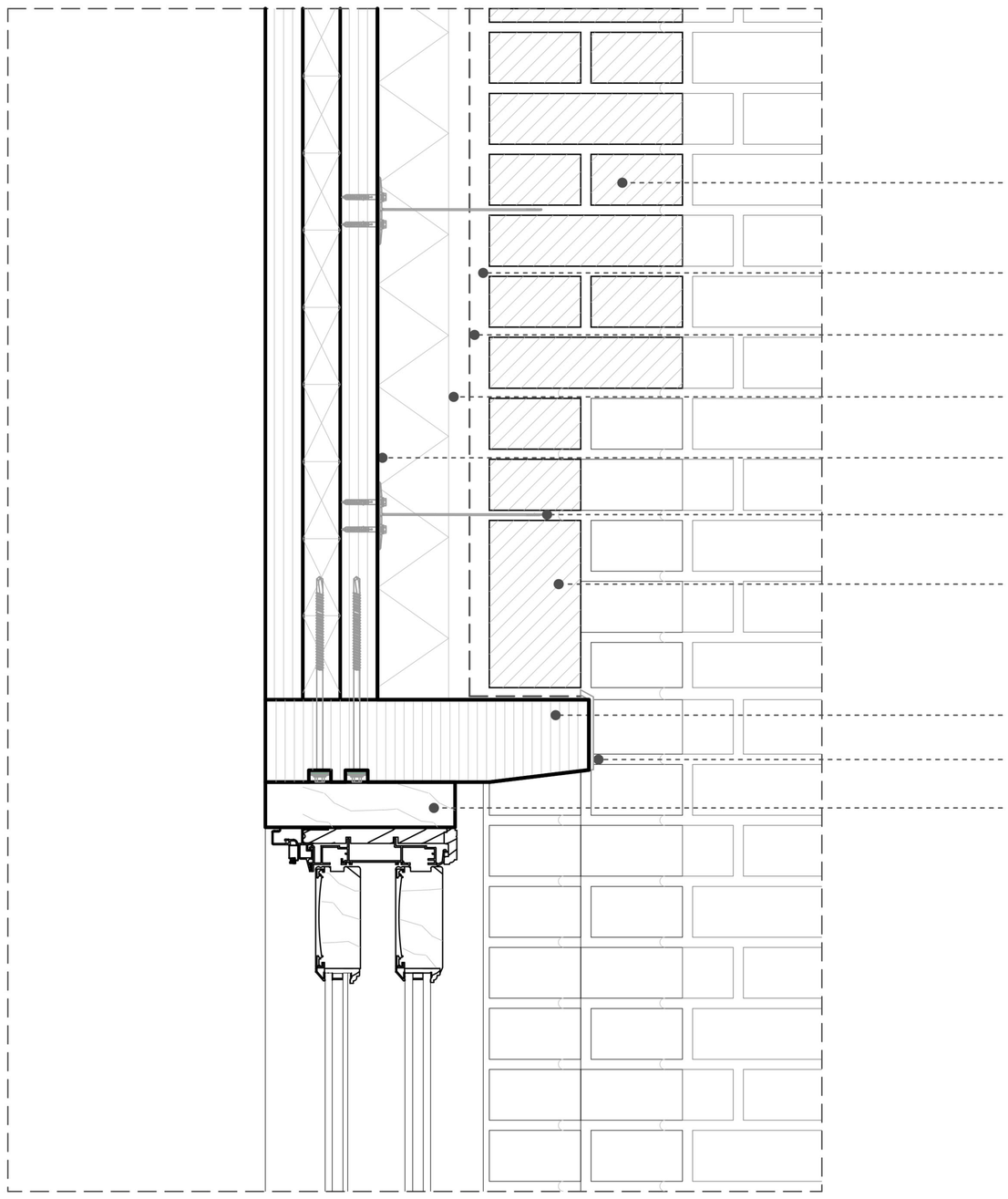
construction details 1:5



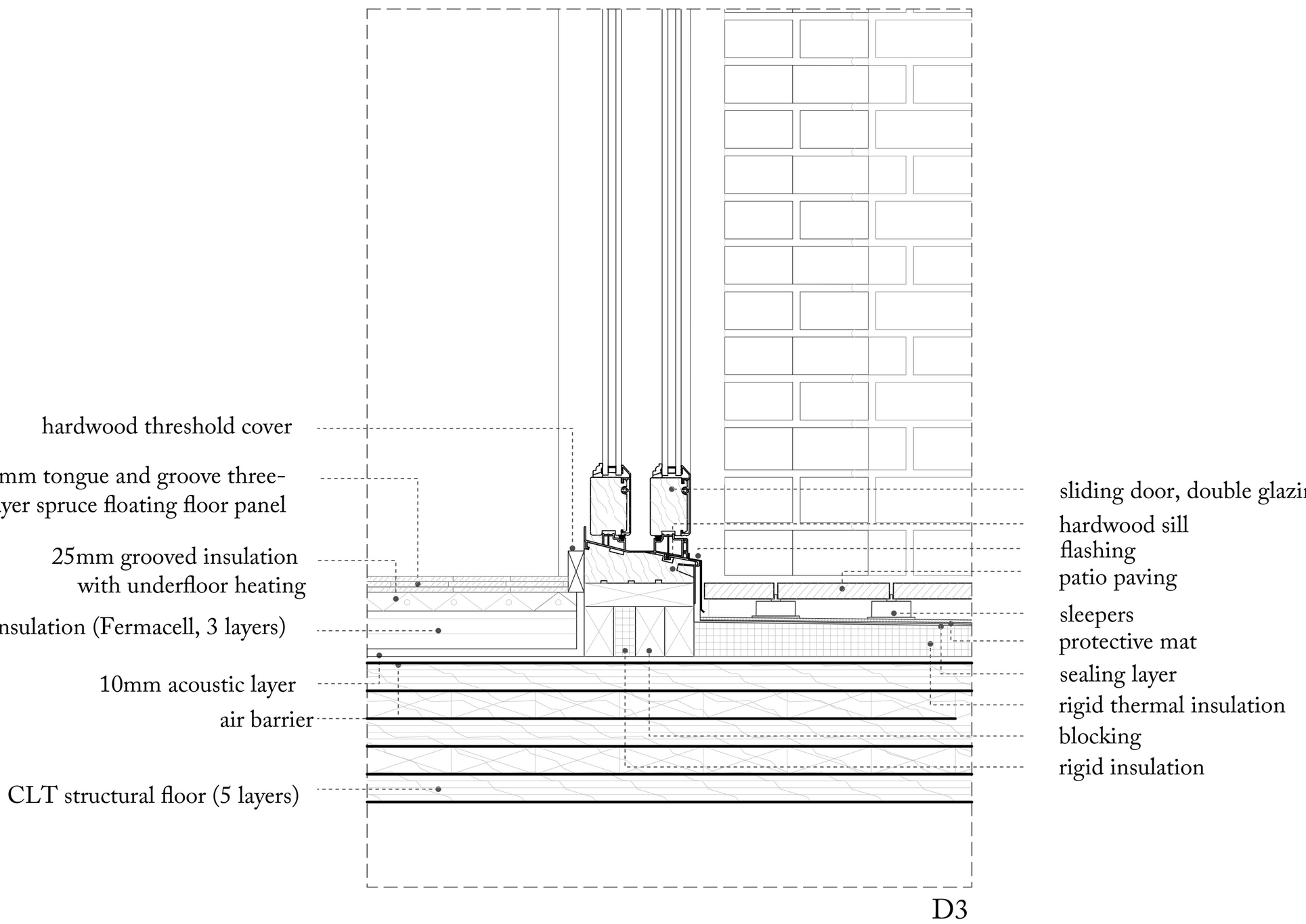
D1

Living and Working development

construction details 1:5



D2



D3

View

2019, Anderlecht, Les Goujons plarform



View

2030, Anderlecht, les Goujons platform



Thank you!