public domesticity

COPENHAGEN & NØRREBRO

is this Copenhagen?

"potato row houses", Copenhagen
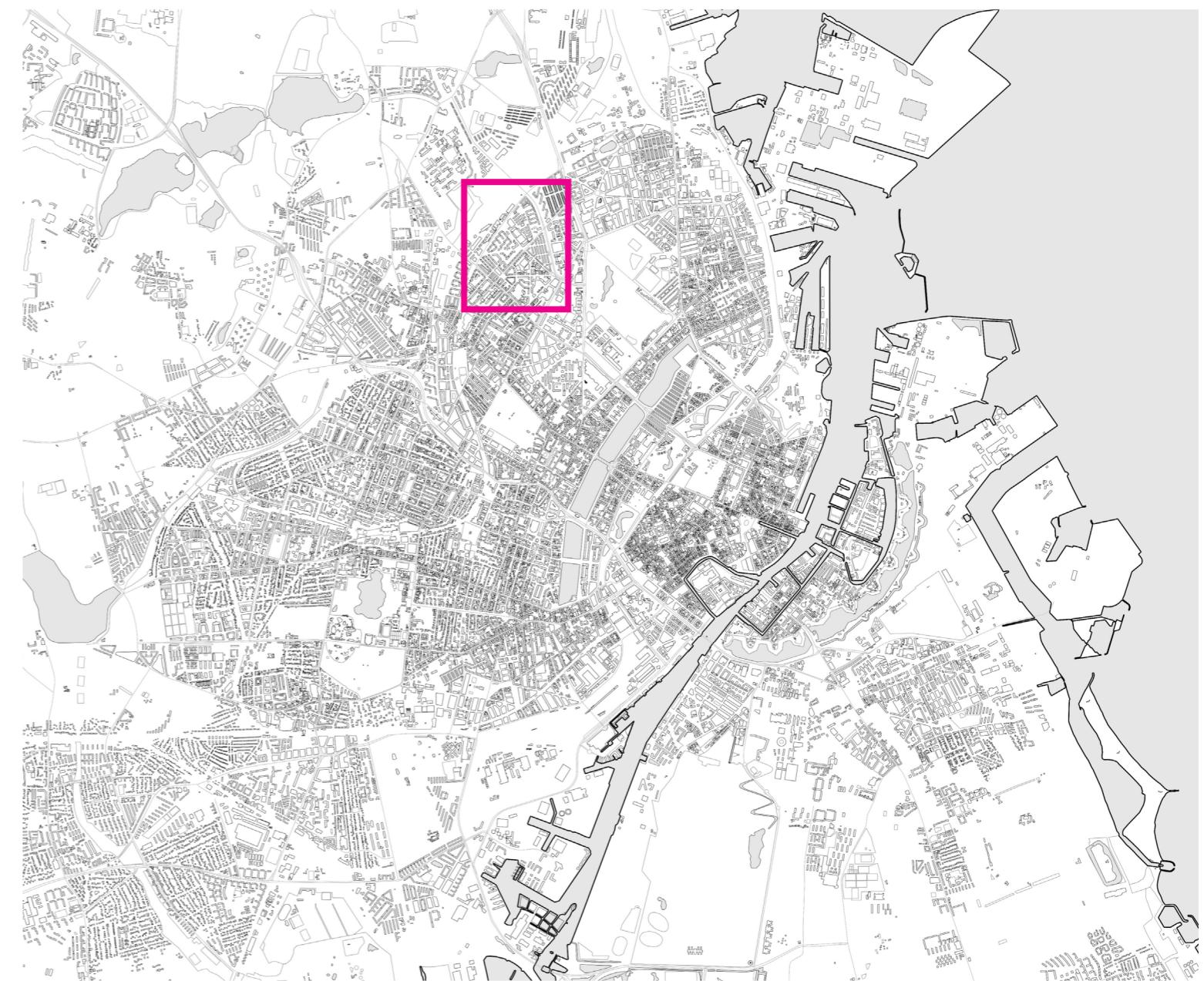
Nyboder, Copenhagen

Hornbækhus, Copenhagen
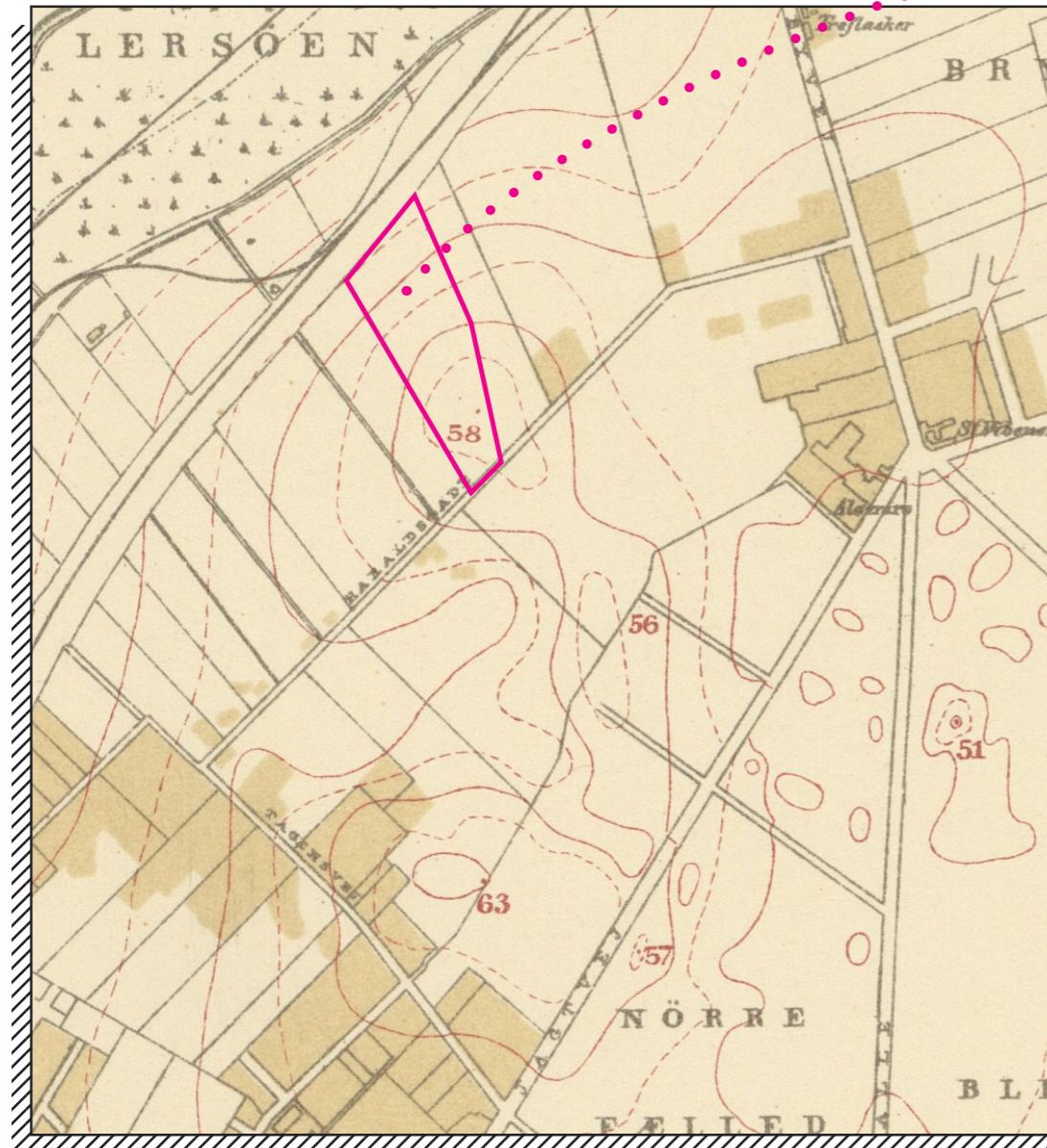
Denmark
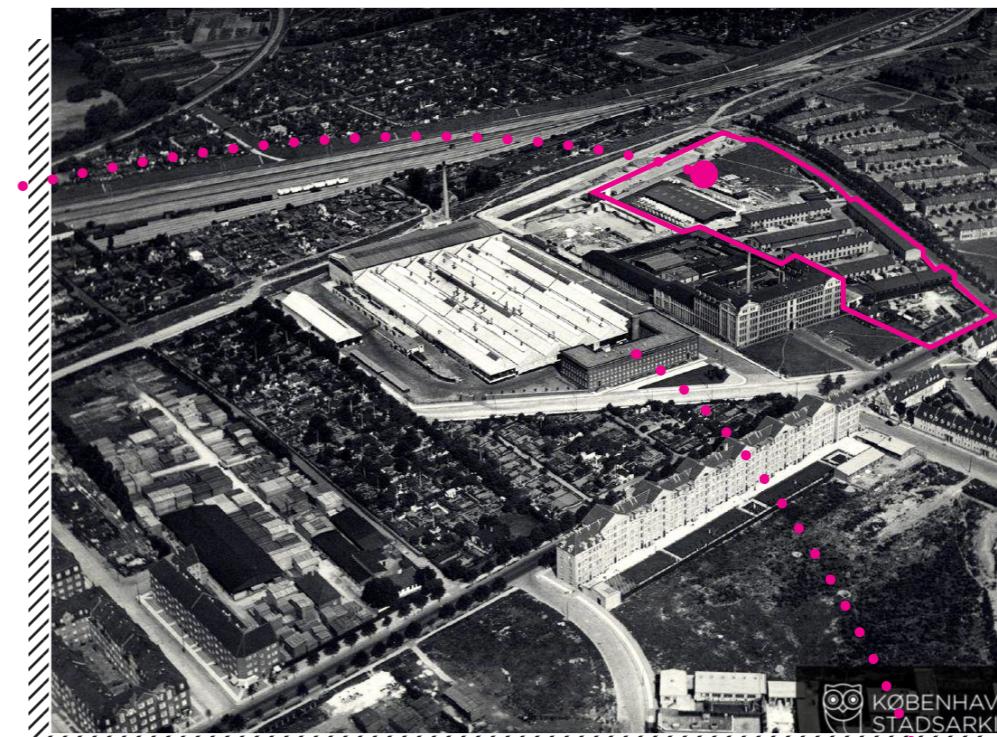
Ydre Nørrebro // Copenhagen

geographic
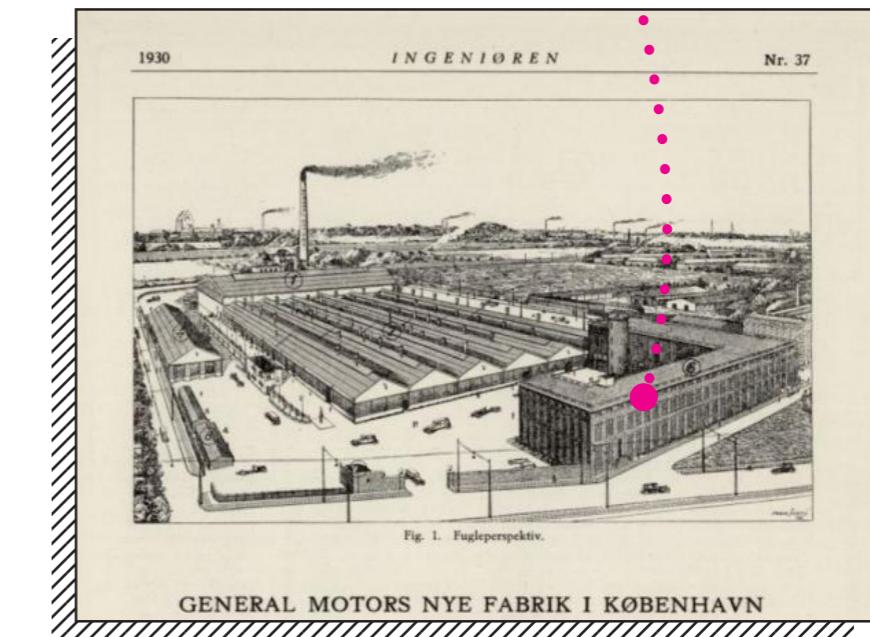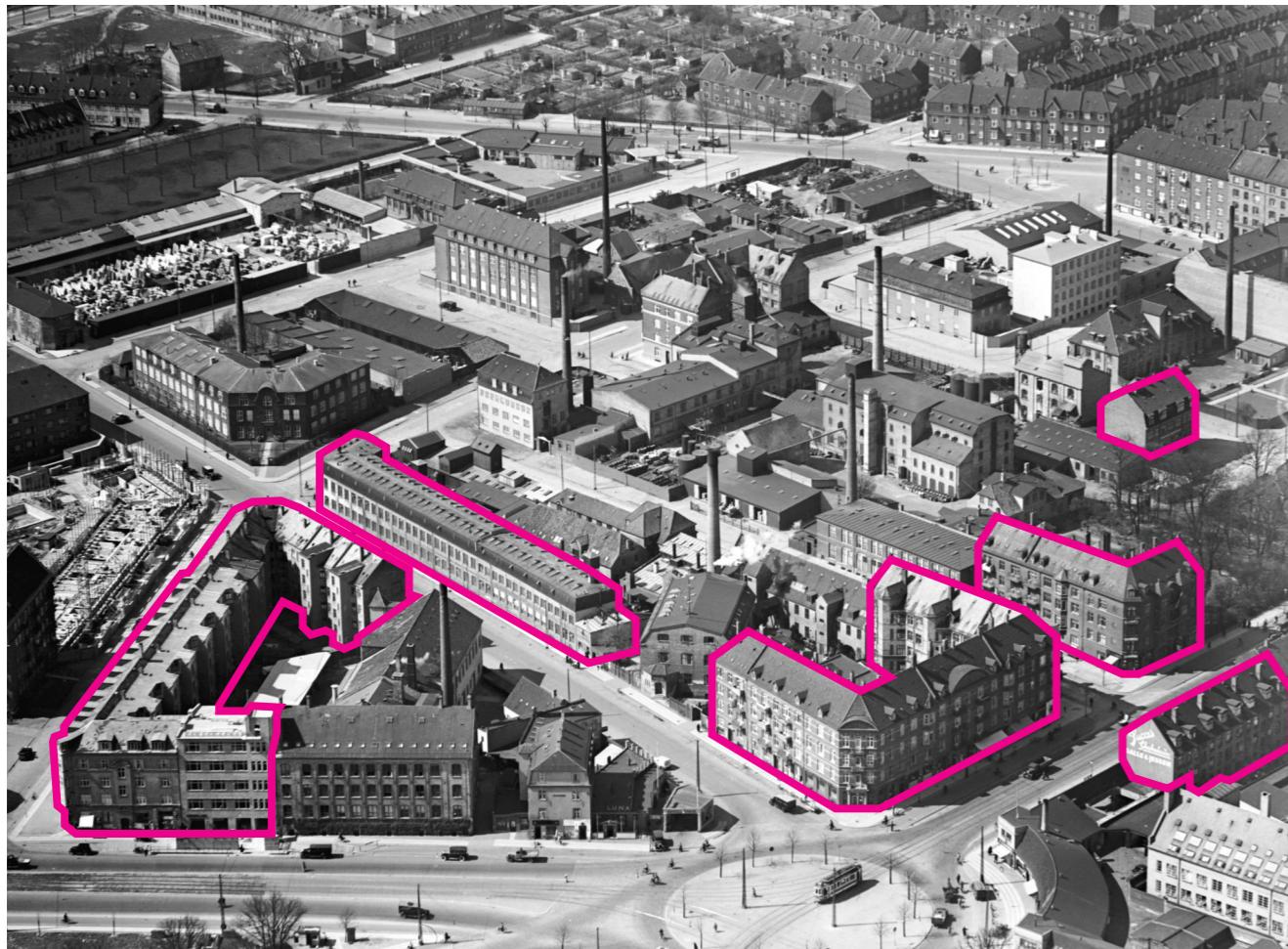
...to industry and dwelling (1934)

from farmland... (1902)

1930   INGENIØREN   Nr. 37

Fig. 1. Fugleperspektiv.

GENERAL MOTORS NYE FABRIK I KØBENHAVN
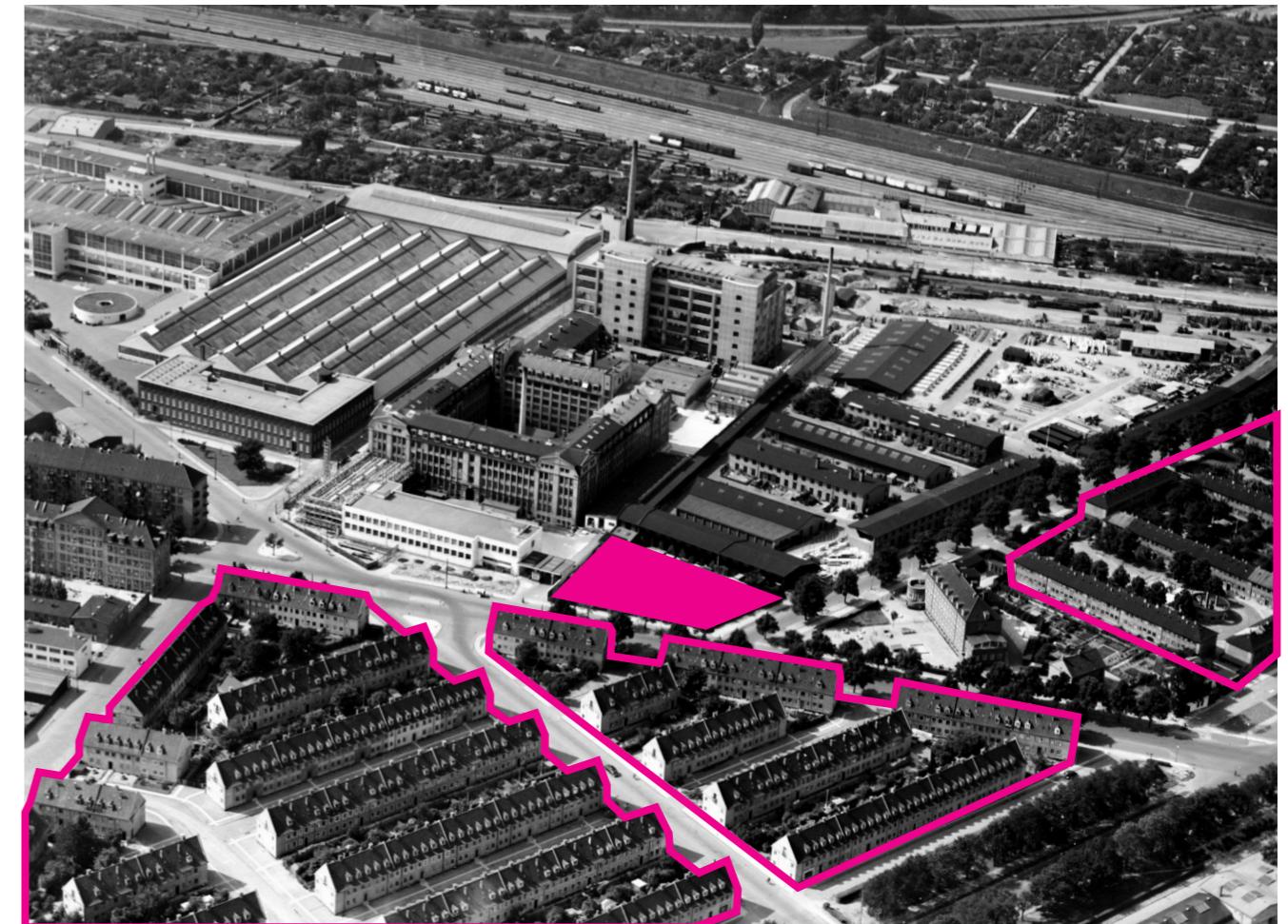
GM assembly plant (1930)

site history

corner of Jagtvej and Lyngbyvej
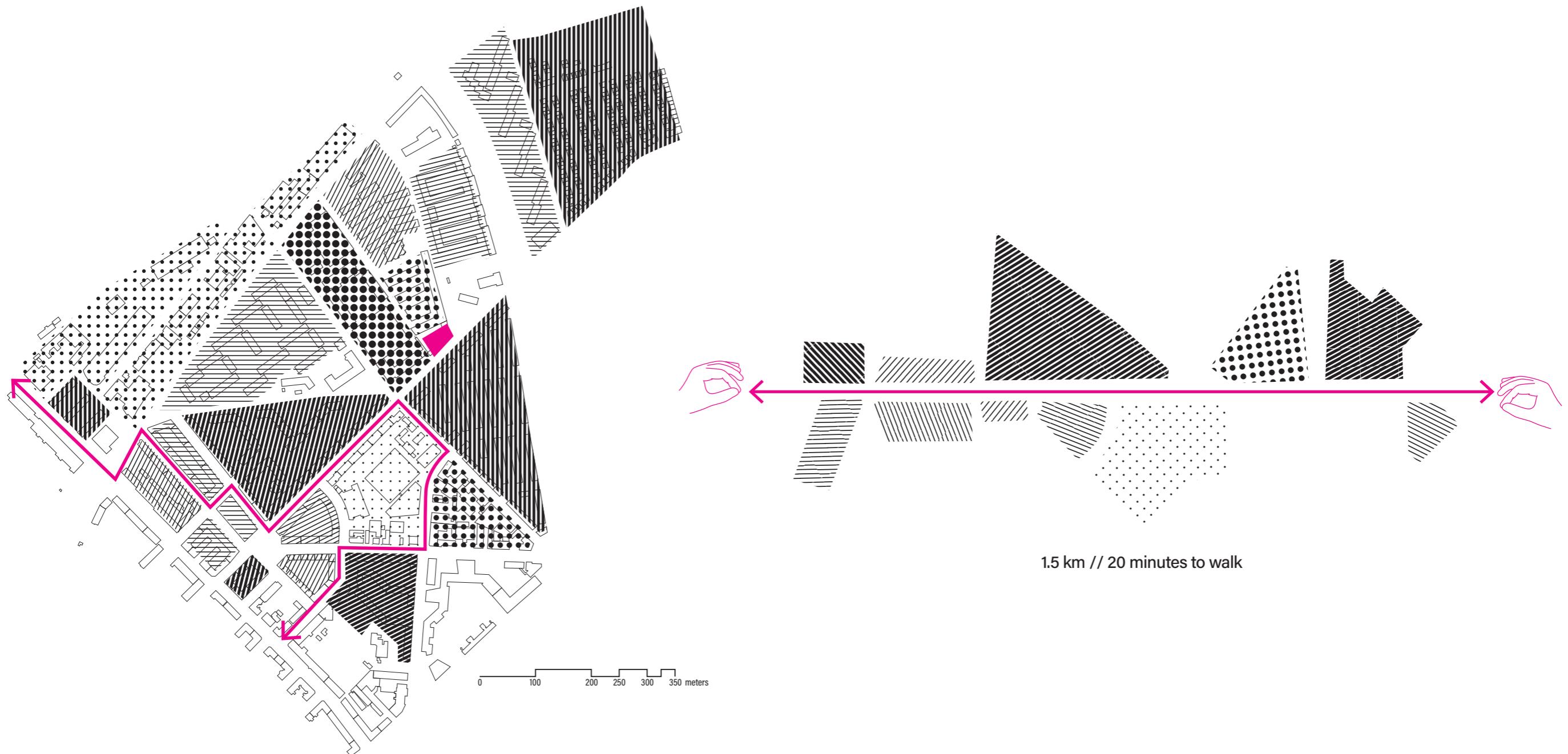
Haraldsgade district

site area

housing
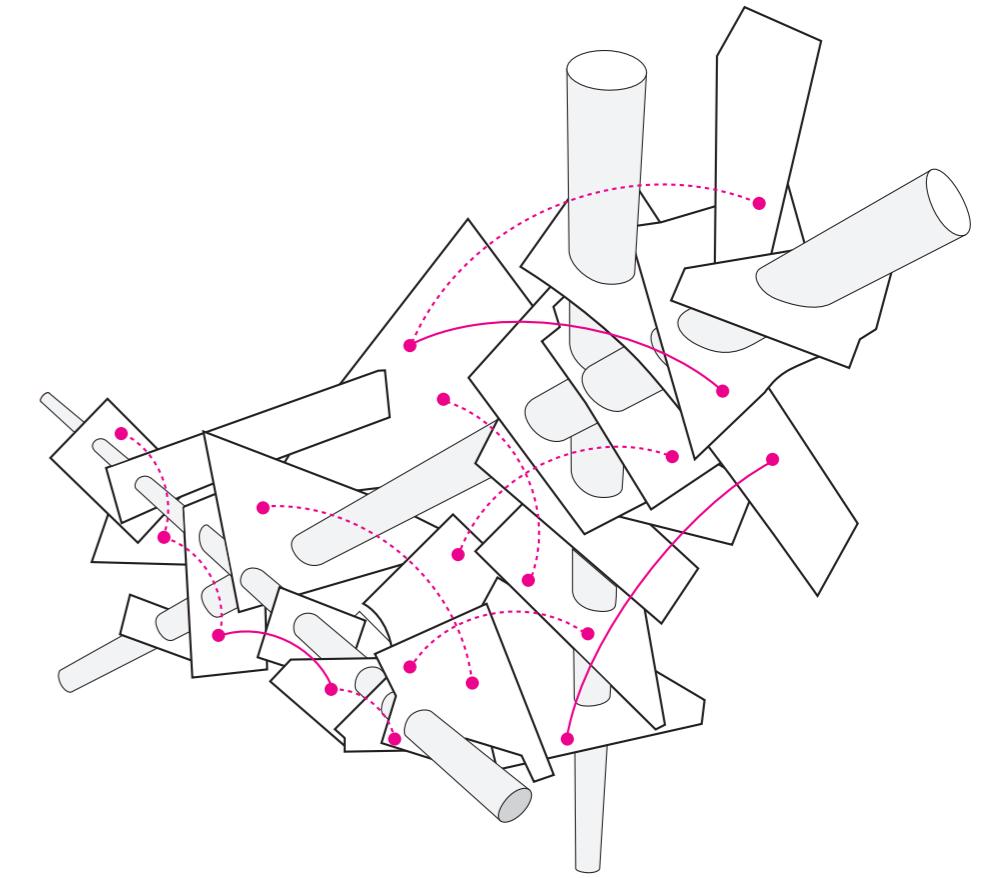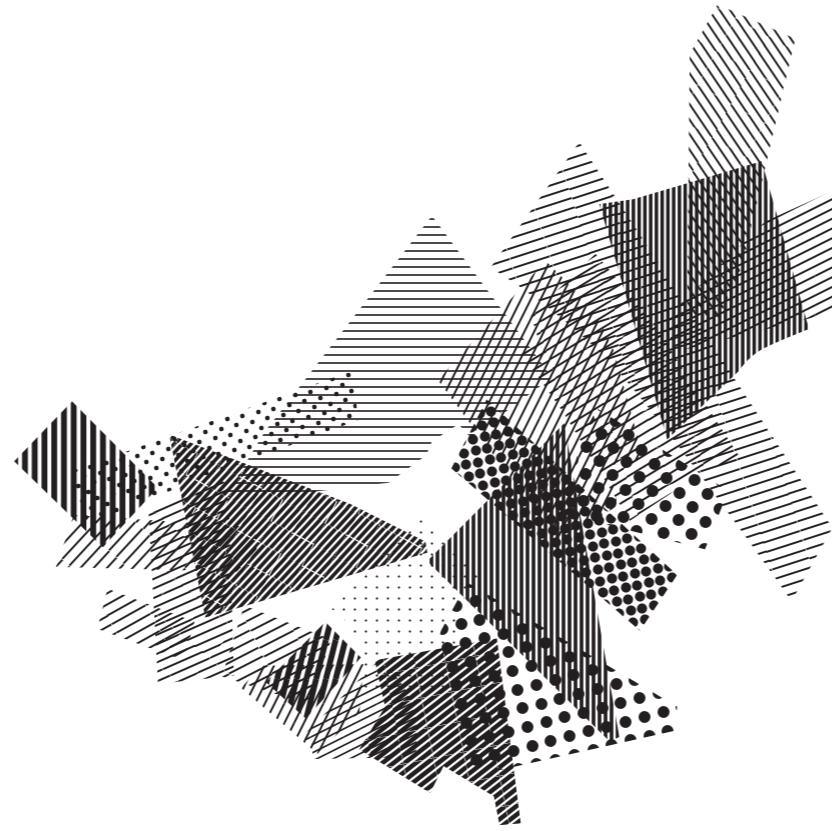
heterogeneity // homogeneity

internally uniform, externally separated

1.5 km // 20 minutes to walk

low density of information
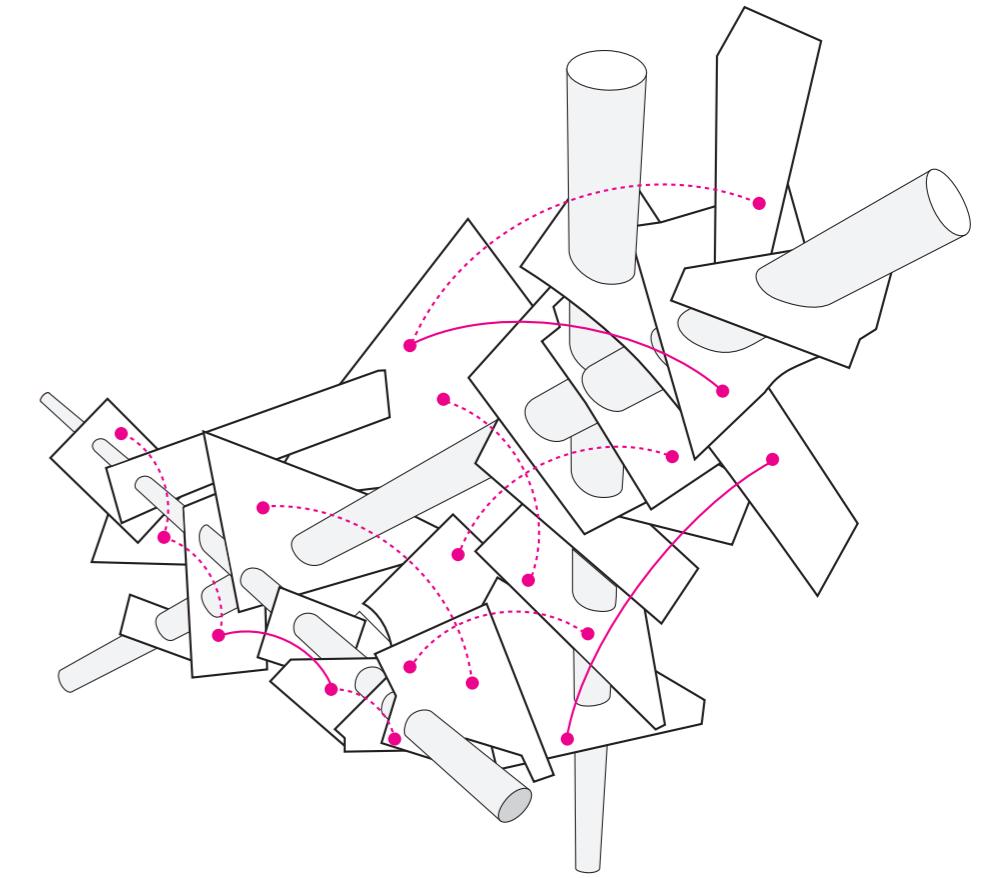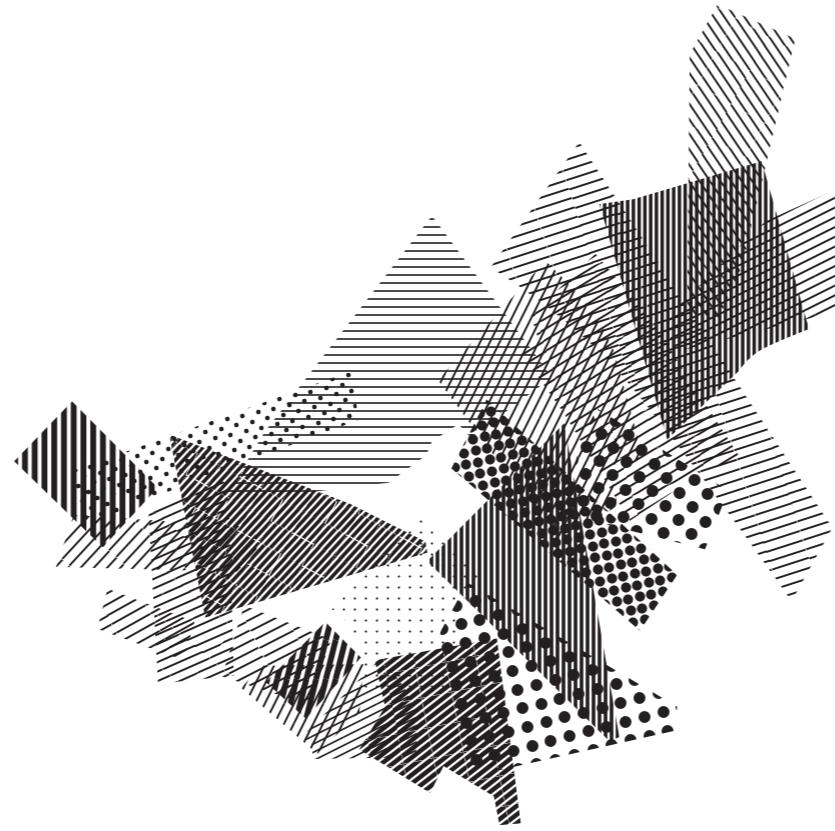
what force can make these islands interact?

unexpected encounters in Nørrebro?
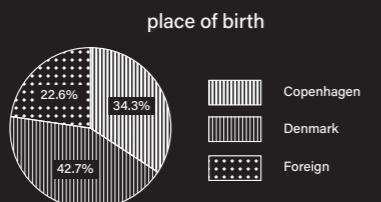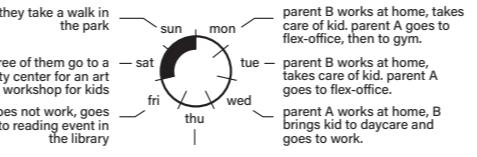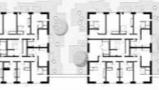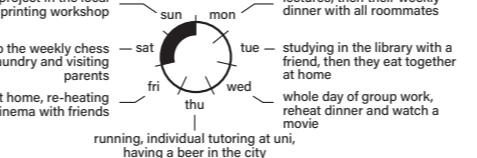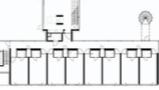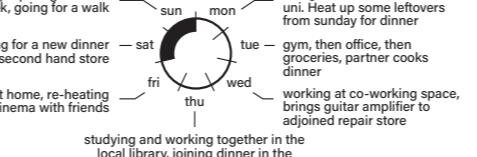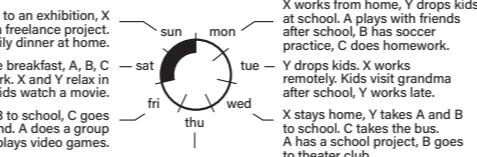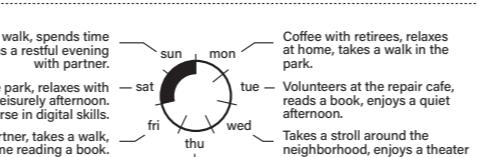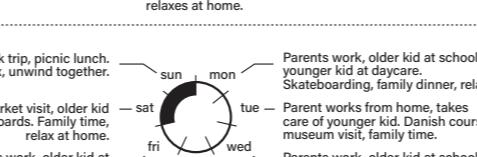
what force can make these islands interact?

a public condenser!
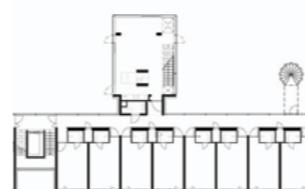
THE METHOD

demographics of Nørrebro, København

place of birth

- 22.6%
- 34.3%
- 42.7%

	Copenhagen
	Denmark
	Foreign

age	amount
90-99 years	201
80-89 years	1.078
70-79 years	2.968
60-69 years	4.836
50-59 years	7.246
40-49 years	8.878
30-39 years	12.739
20-29 years	22.581
10-19 years	5.633
0-9 years	7.907

male | female

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user groups / daily lives / living situation / events / facilities

Young family, 1 child

daily lives:
- together they take a walk in the park
- the three of them go to a community center for an art workshop for kids
- parent A does not work, goes with kid to reading event in the library
- parent B works at home, takes care of kid. parent A goes to flex-office, then to gym.
- parent B works at home, takes care of kid. parent A goes to flex-office.
- parent A works at home, B brings kid to daycare and goes to work.
- both parents go to their work, drop off kid at daycare. in the afternoon, A picks up kid

living situation: 1-bedroom apartment, a bit too small
Haraldsgade 45, Nørrebro, Kobenhavn

events	facilities
maternity leave	**cafe**
reading event	library
working out	gym
weekend activity	**exhibition spaces**
	art workshop
working	**flex office**

student living alone

daily lives:
- laundry, preparing uni, going for a walk
- painting workshop, reading a book
- studying at home, re-heating dinner, cinema with friends
- lectures, going home for lunch, some studying, gym
- studying at home, side job, a drink with a friend
- group work, lunch, recap in library
- gym, studying in library, cooking with friends

living situation: studio apartment, social interaction needs to be pursued
Borgmestervangen, Nørrebro, Kobenhavn

events	facilities
studying	**study spaces**
meeting a friend	**cafe**
group work	**collaboration spaces**
working out	gym
watching a movie	**cinema**
painting workshop	**art facilities**

student house

daily lives:
- finishing a project in the local screen printing workshop
- going to the weekly chess training, laundry and visiting parents
- studying at home, re-heating dinner, cinema with friends
- lectures, then their weekly dinner with all roommates
- studying in the library with a friend, then they eat together at home
- whole day of group work, reheat dinner and watch a movie
- running, individual tutoring at uni, having a beer in the city

living situation: shared facilities, much social interaction, rest needed
Rådmandsgade 61, Nørrebro, Kobenhavn

events	facilities
studying	**silent study spaces**
meeting a friend	bar
group work	**collaboration spaces**
working out	gym
watching a movie	**cinema**
chess training	**rentable space**
screen printing	**art facilities**

friends co-living, just started work

daily lives:
- cooking workshop with old friend from high school on how to cook falafel
- visiting a local theater performance, drinking a coffee in the city
- working at local co-working space, then have a drink with a friend in the city
- home-office day for most, some work in living room and some in co-working spaces
- going to the office, staying somewhat late, walking the house dog
- going to the office, getting groceries at local vegetable store
- office day, then cooking together with all roommates

living situation: shared facilities, high quality, more private space
Engelstedsgade 30, 2100 Kobenhavn Ø

events	facilities
working spaces	**flex office**
getting local vegetables	**local vegetable store**
having a drink	bar
visiting theater	**theater**
drink a coffee	**cafe**
cooking workshop	**cooking spaces**
visit exhibition	**exhibition spaces**

young couple

daily lives:
- laundry, preparing the next week, going for a walk
- shopping for a new dinner table at the second hand store
- studying at home, re-heating dinner, cinema with friends
- one goes to the office, other to uni. Heat up some leftovers from sunday for dinner
- gym, then office, then groceries, partner cooks dinner
- working at co-working space, brings guitar amplifier to adjoined repair store
- studying and working together in the local library, joining dinner in the shared kitchen next door

living situation: 1 bedroom apartment, starting household
Haraldsgade 45, Nørrebro, Kobenhavn

events	facilities
working spaces	**flex office**
working out	gym
repairing amplifier	**repair cafe**
work and study together	**co-working spaces**
joining communal dinner	**shared kitchen**
watching a movie	**cinema**
buying second hand table	**second hand store**

family with school-going kids

daily lives:
- Y takes kids to an exhibition, X works on a freelance project. Family dinner at home.
- X and Y make breakfast, A, B, C play in the park. X and Y relax in the evening, kids watch a movie.
- Y takes A and B to school, C goes with a friend. A does a group project, C plays video games.
- X works from home, Y drops kids at school. A plays with friends after school, B has soccer practice, C does homework.
- Y drops kids. X works remotely. Kids visit grandma after school, Y works late.
- X stays home, Y takes A and B to school. C takes the bus. A has a school project, B goes to theater club.
- X works remotely. A plays outside with friends, B attends study group, C reads.

living situation: 4-bedroom row house, busy lives
Engelstedsgade 30, 2100 Kobenhavn Ø

events	facilities
playing with friends	**board game cafe**
soccer practice	sports facilities
school project	**arts+crafts workshop**
theater club	**theater**
attend study group	**collaboration spaces**
work on freelance project	**flex office**
visiting exhibition	**exhibition spaces**

elderly couple

daily lives:
- Takes a walk, spends time reading, has a restful evening with partner.
- Short walk in the park, relaxes with partner, enjoys a leisurely afternoon. Course in digital skills.
- Cooks with partner, takes a walk, spends time reading a book.
- Coffee with retirees, relaxes at home, takes a walk in the park.
- Volunteers at the repair cafe, reads a book, enjoys a quiet afternoon.
- Takes a stroll around the neighborhood, enjoys a theater performance in the evening.
- Volunteers at community center, reads Danish stories to immigrant kids, relaxes at home.

living situation: 1-bedroom apartment in row house, active in community
Vibekegade 29, Nørrebro, Kobenhavn

events	facilities
coffee with retirees	**cafe**
volunteering to repair	**repair cafe**
reading a book	**silent study spaces**
visit theater performance	**theater**
read Danish stories	**public living room**
Course in digital skills	**multifunctional classroom**

new immigrant family

daily lives:
- Park trip, picnic lunch. Relax, unwind together. Skateboarding, family dinner, relax.
- Market visit, older kid skateboards. Family time, relax at home.
- Parents work, older kid at school, younger kid at daycare. Danish course, family cooking.
- Parents work, older kid at school, younger kid at daycare. Danish course, relax.
- Parent works from home, takes care of younger kid. Danish course, museum visit, family time.
- Parents work, older kid at school, younger kid at daycare. Family dinner, reading, games.
- Parent works from home, younger kid at home. Park walk, family dinner.

living situation: 2-bedroom apartment, just arrived
Sigynsgade 48, Nørrebro, Kobenhavn N

events	facilities
bring kid to daycare	daycare
skateboarding	**skatepark**
Danish course	**multifunctional classroom**
museum visit	**exhibition spaces**
games	**board game cafe**
market visit	space for temporary market

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atlas of users, their domestic situation, their needs

student house

finishing a project in the local screen printing workshop

going to the weekly chess training, laundry and visiting parents

studying at home, re-heating dinner, cinema with friends

sun — mon

sat — tue —

fri — wed

thu

lectures, then their weekly dinner with all roommates

studying in the library with a friend, then they eat together at home

whole day of group work, reheat dinner and watch a movie

running, individual tutoring at uni, having a beer in the city

shared facilities, much social interaction, rest needed

Rådmandsgade 61, Nørrebro, København

studying
meeting a friend
group work
working out
watching a movie
chess training
screen printing
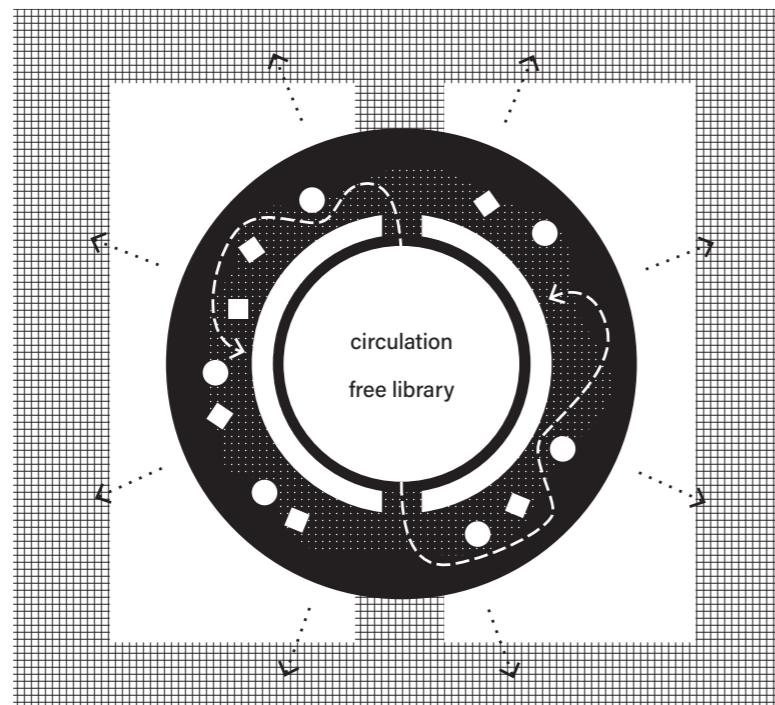
silent study spaces
bar
collaboration spaces
gym
cinema
rentable space
art facilities

persona: student

"abitare è essere ovunque a casa propria"
"to live is to be at home everywhere"

La riappropriazione della città, Ugo La Pietra, 1977

circulation

free library

movement

flow through   pass along   **destination**

encounter

solitary   **incidental**   deliberate

social configuration

individual   group   workshop

user: mental / spiritual / social needs

creating   **learning**   **reflecting**   community

user + facilities: technical needs

2-4x / h	s: 22-27°C w: 20-24°C	300-500 lux	
air change p/h	temperature	(sun)light	noise

facilities

individual lamps   exchange library   excellent sound-proofing

exchange / share   consume / enjoy   produce / create

food

#07 (coffee) bar   #05 market   #04 eating spaces   #03 (rooftop) community garden   #01 community kitchen

#06 restaurant   #02 bakery

music / art

#11 cinema

#08 exhibition   #12 theater   #09 sculpt   #10 drawing / painting

#13 read

projects / products

#19 2nd hand store + repair cafe   #18 woodworking

knowledge / skills

#17 meeting rooms   #16 workshop / classroom   #14 study spaces   #15 flex office

atlas of extra-domestic spaces - LEGO bricks?

DESIGN PROPOSAL

stacking the atlas

... like the Downtown Athletic Club - stacked landscapes

houses for self-actualization

Hugo van Rossum 27.02.25

exchange / share

consume / enjoy

produce / create

#07 (coffee) bar #05 market #04 eating spaces #03 (rooftop) community garden #51 community kitchen

food

#06 restaurant #02 bakery

#11 cinema

music / art

#08 exhibition #12 theater #09 sculpt #10 drawing / painting

#13 read

projects / products

#19 2nd hand store + repair cafe #18 woodworking

knowledge / skills

#17 meeting rooms #20 workshop / classroom #14 study spaces #16 flex office

roof

rooftop restaurant
herb garden
greenhouses
compost
beehive
insect hotel
benches

produce / create

06

restaurant
drawing workshop
woodworking
sculpting

05

study spaces
flex workspaces
bakery
community kitchen

consume / enjoy

04

read
theater

03

read
theater

share / exchange

02

exhibition space
meeting rooms

01

2nd hand store
market
(coffee) bar

vertically condensed atlas

Downtown Athletic Club, Starrett & van Vleck, 1930

SECTION LOOKING NORTH

from stacking to hybridity

roof
— rooftop restaurant
herb garden
greenhouses
compost
beehive
insect hotel
benches

produce / create

06
— restaurant
drawing workshop
woodworking
sculpting

05
— study spaces
flex workspaces
bakery
community kitchen

consume / enjoy

04
— read
theater

03
— read
theater

share / exchange

02
— exhibition space
meeting rooms

01
— 2nd hand store
market
(coffee) bar
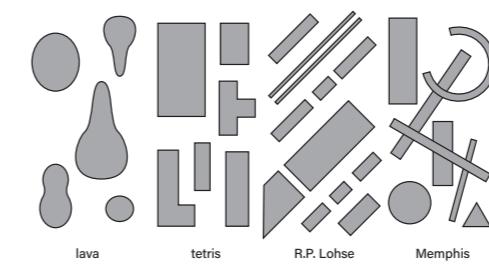
movement
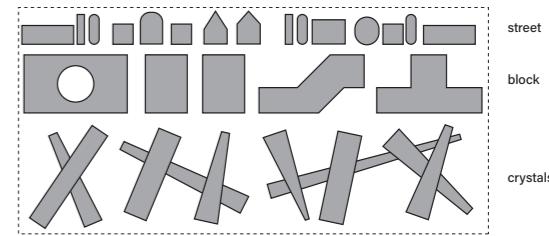
positive

hybrid

negative

zones
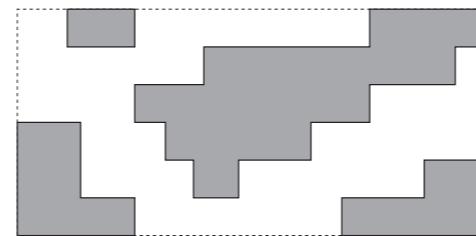
lava   tetris   R.P. Lohse   Memphis
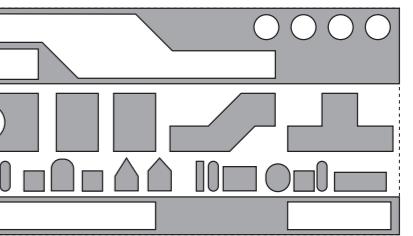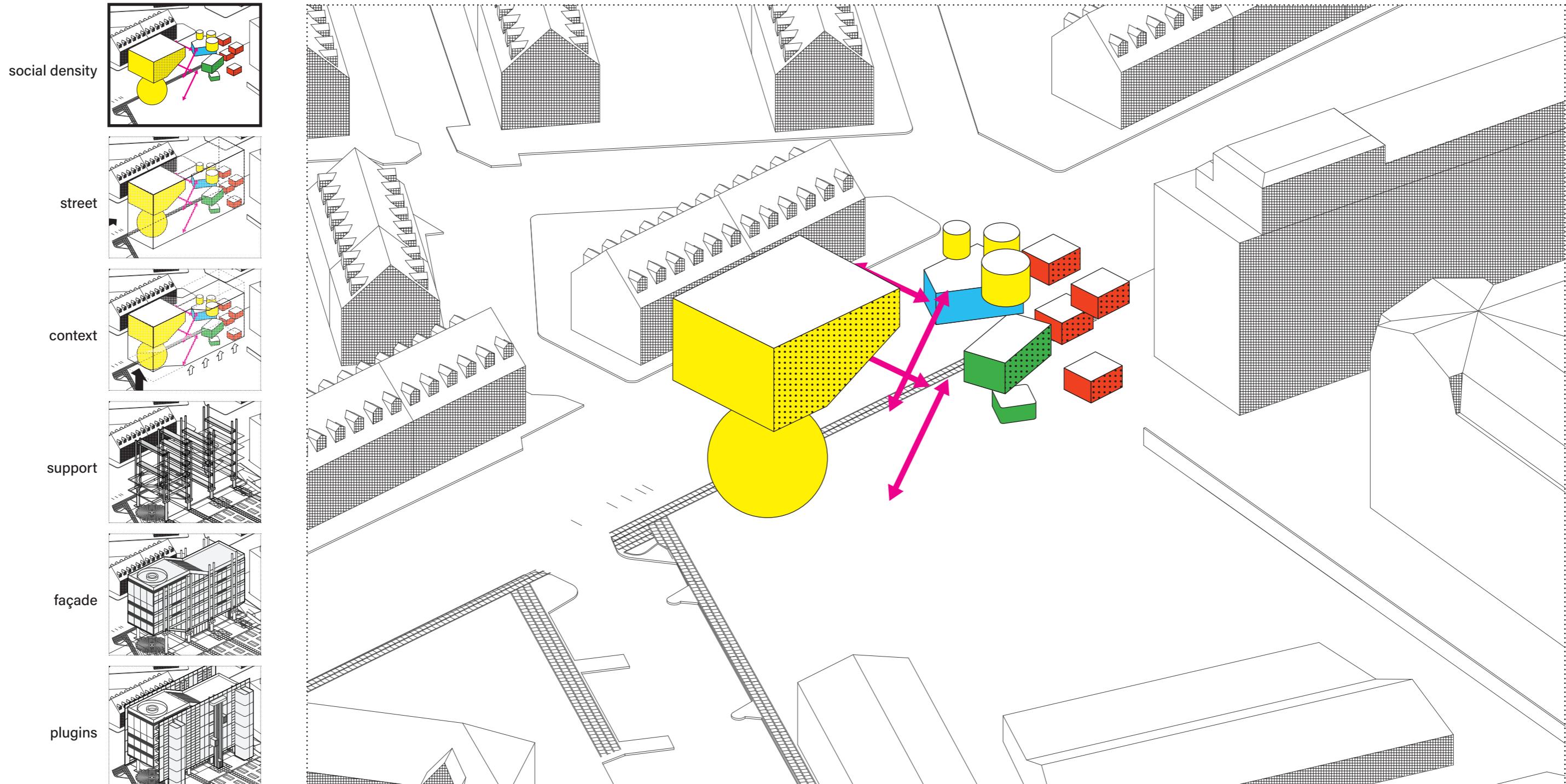
canyon   ant hill   street grid   levels

levels

street
block
crystals
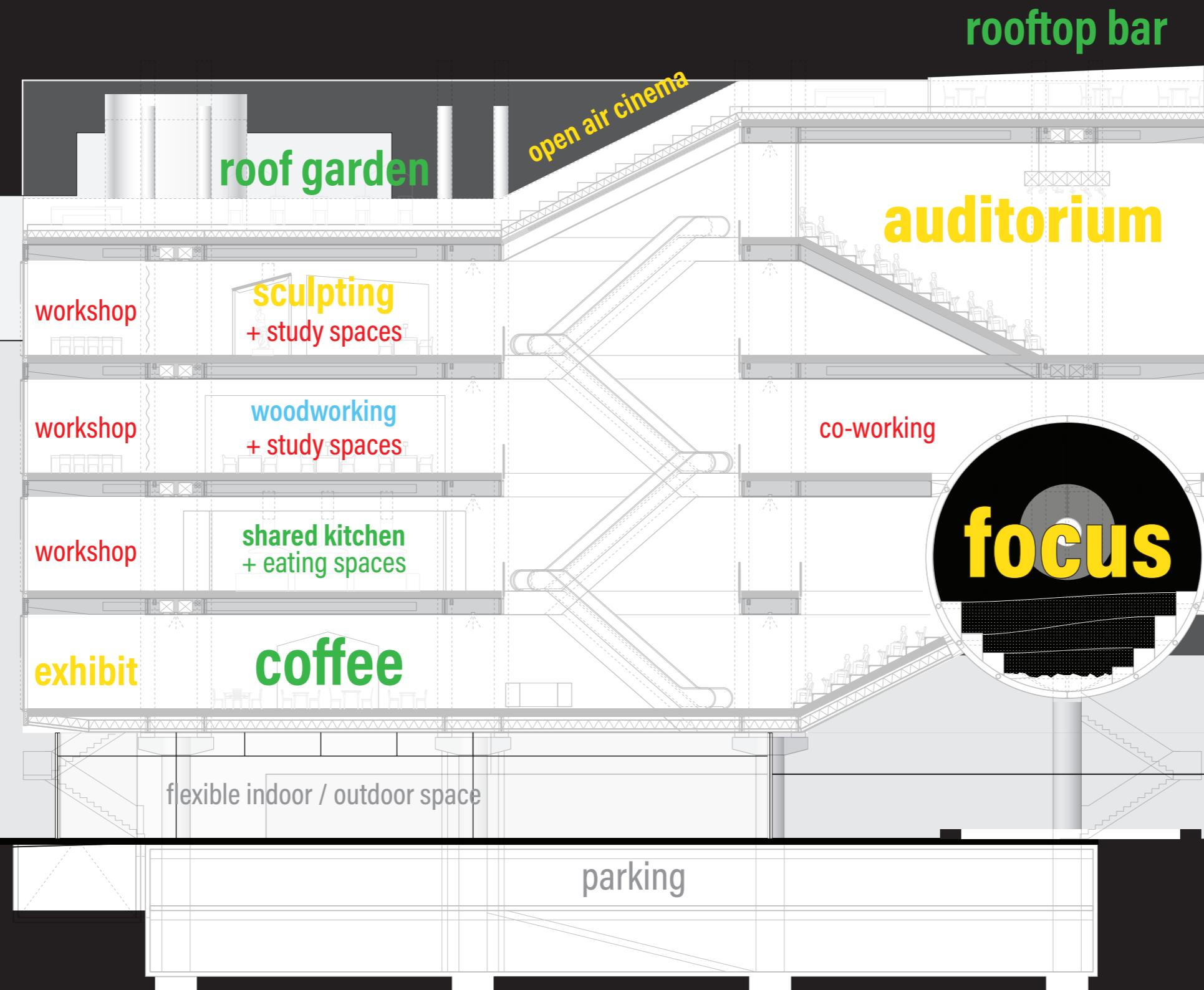
rooms
levels
halls

conceptual sections

concept - social density

social density

street

context

support

façade

plugins
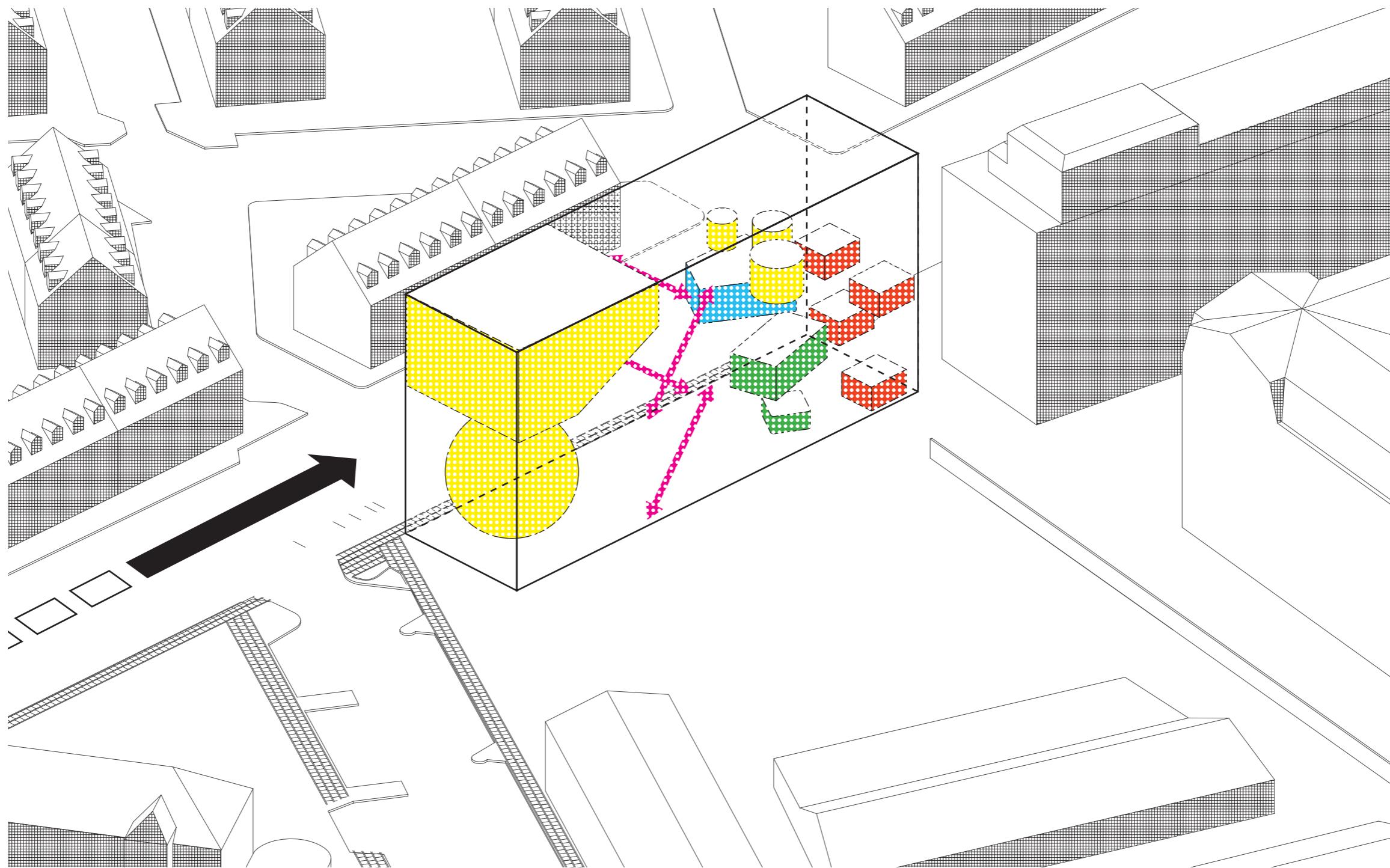
creating social density through physical density and visibility.
condensed atlas in threedimensional space

rooftop bar

open air cinema

roof garden

auditorium

workshop

sculpting
+ study spaces

workshop

woodworking
+ study spaces

co-working

workshop

shared kitchen
+ eating spaces

focus

exhibit

coffee

flexible indoor / outdoor space

parking
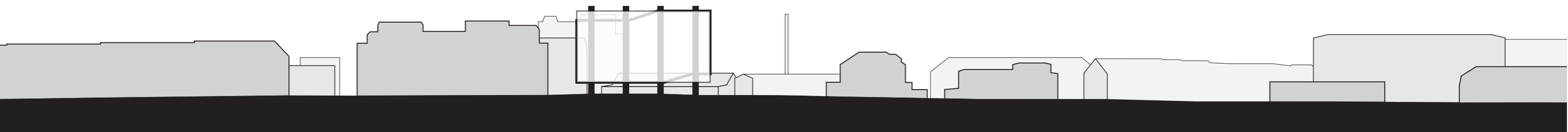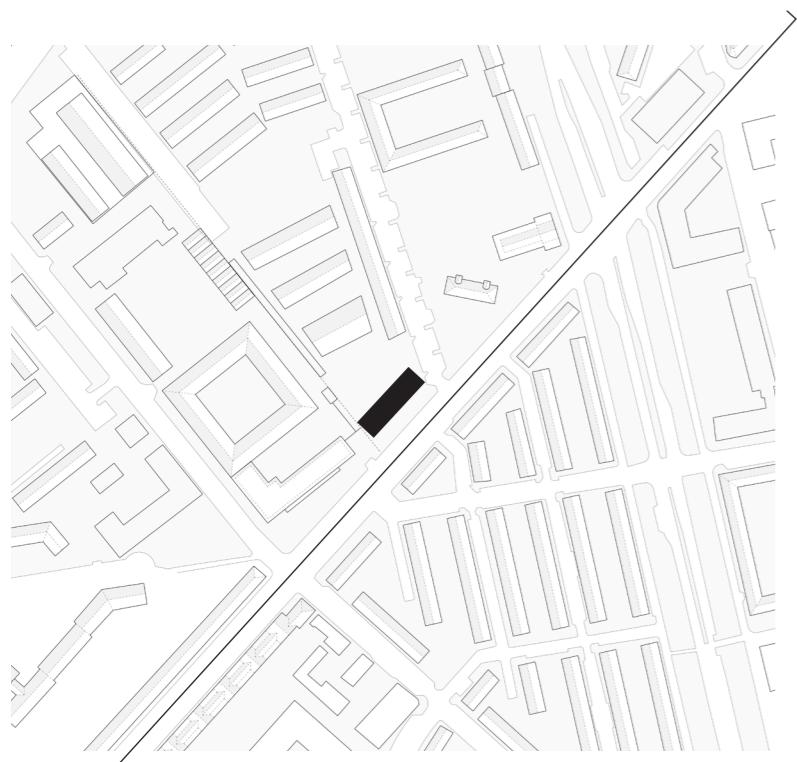
section of program.
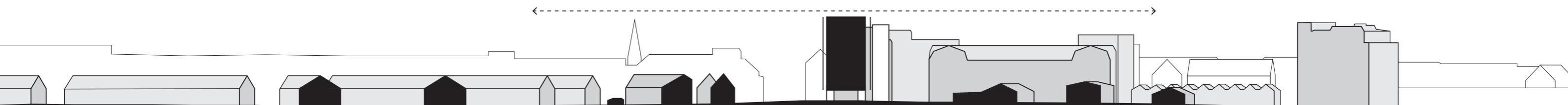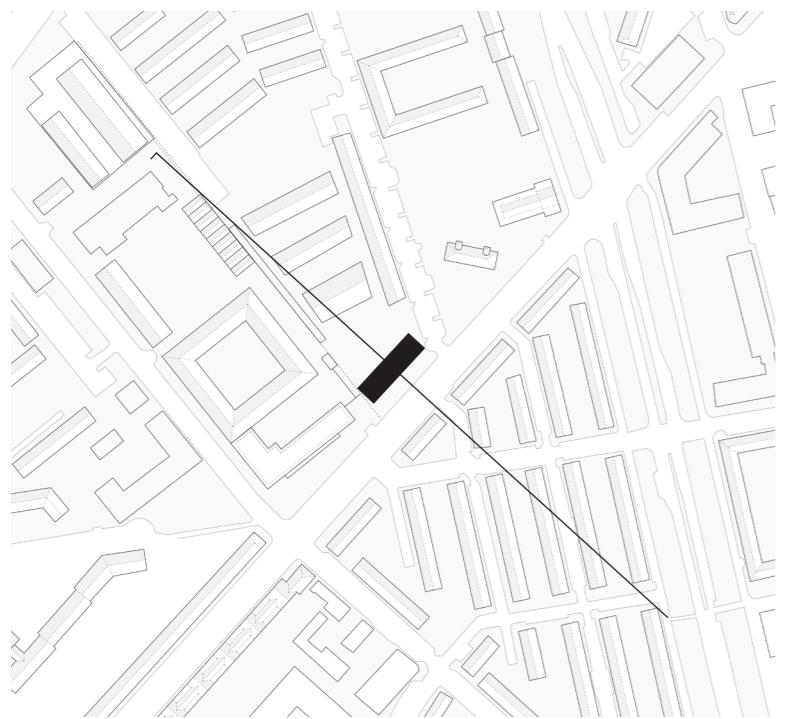
concept - reinforcing the street

Classical Copenhagen avenue.
An addition to the existing typologies.

street elevation following Haraldsgade
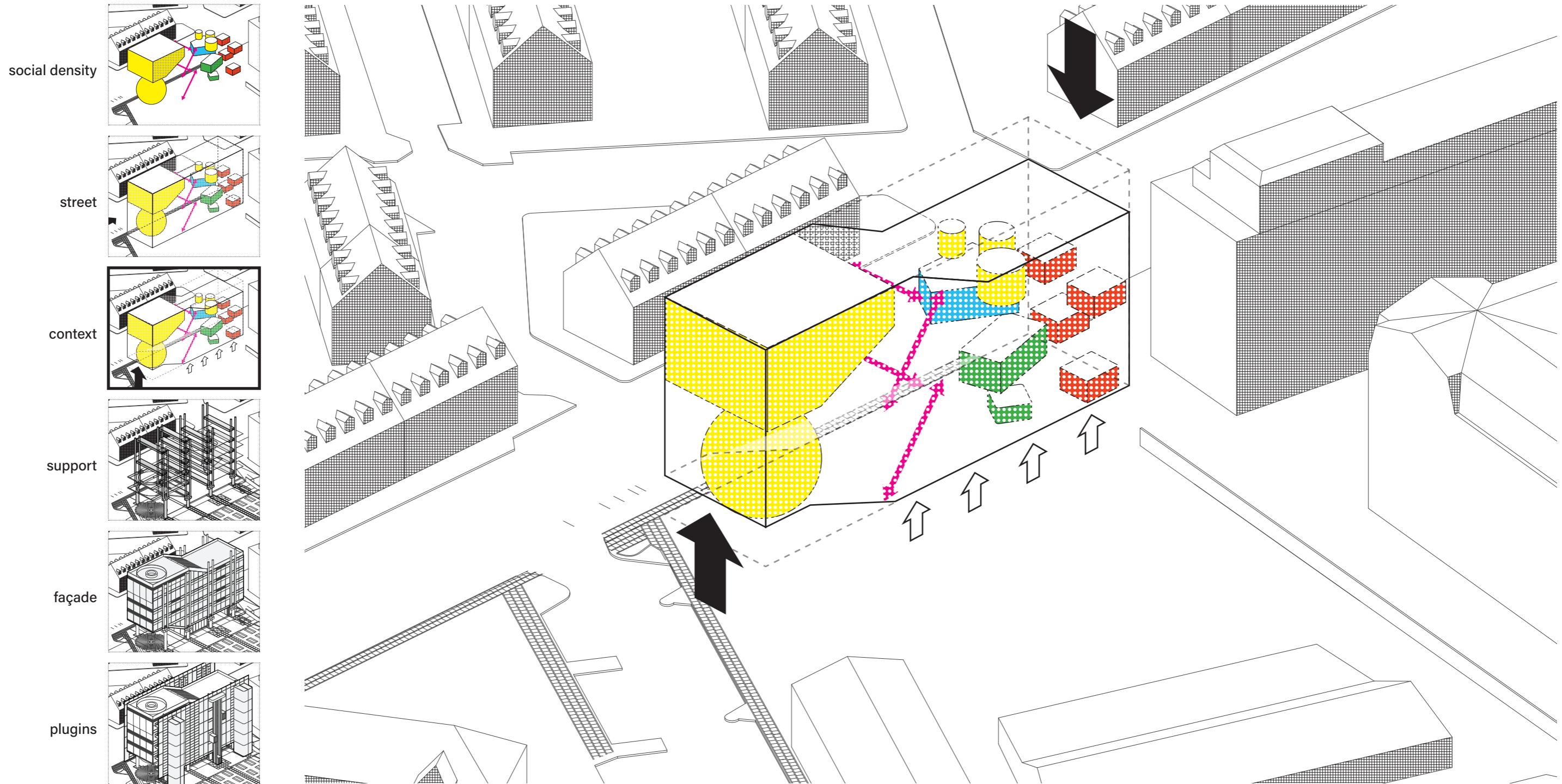
street perpendicular to Haraldsgade
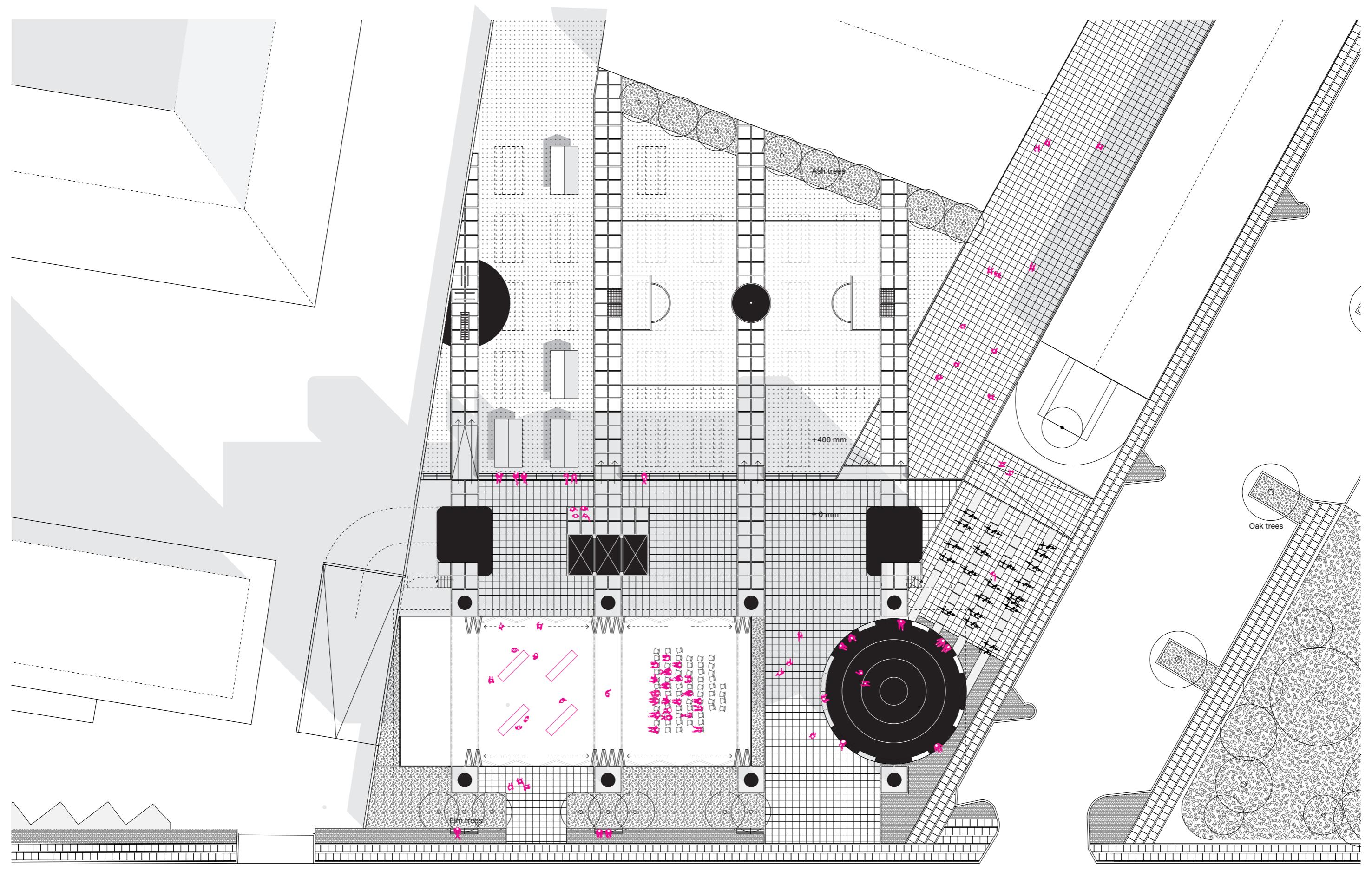
street perspective looking North-East
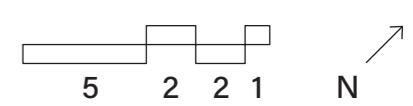
context - ground floor and neighbors

social density

street

context

support

façade

plugins

elevating the building with 5.5 meters.
elevating the NE façade with 5 meters.
lowering the SW roof for linking with context.

Ash trees

+400 mm

± 0 mm

Oak trees

Elm trees

-150 mm
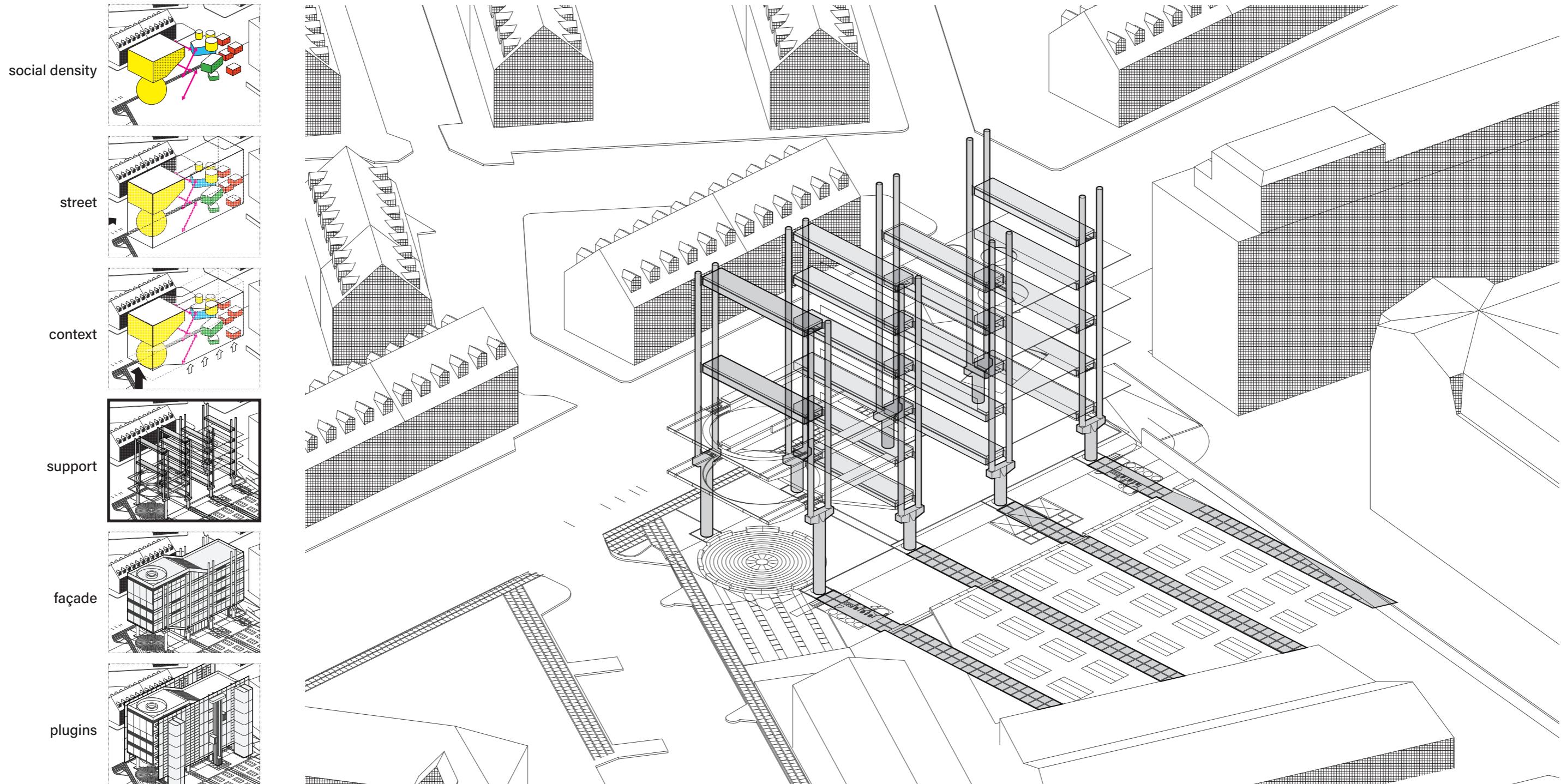
ground floor plan

5 2 2 1   N
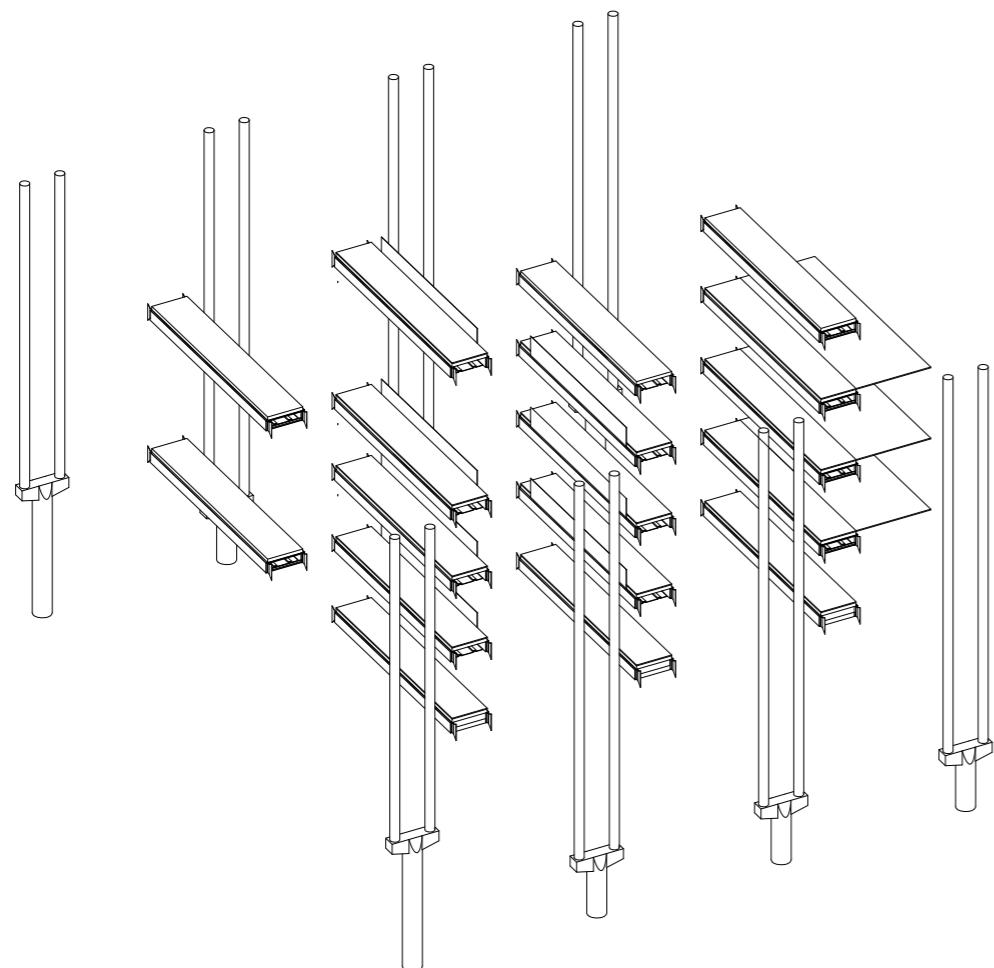
view from North-West

support - columns + structural walkways

social density

street

context

support

façade

plugins
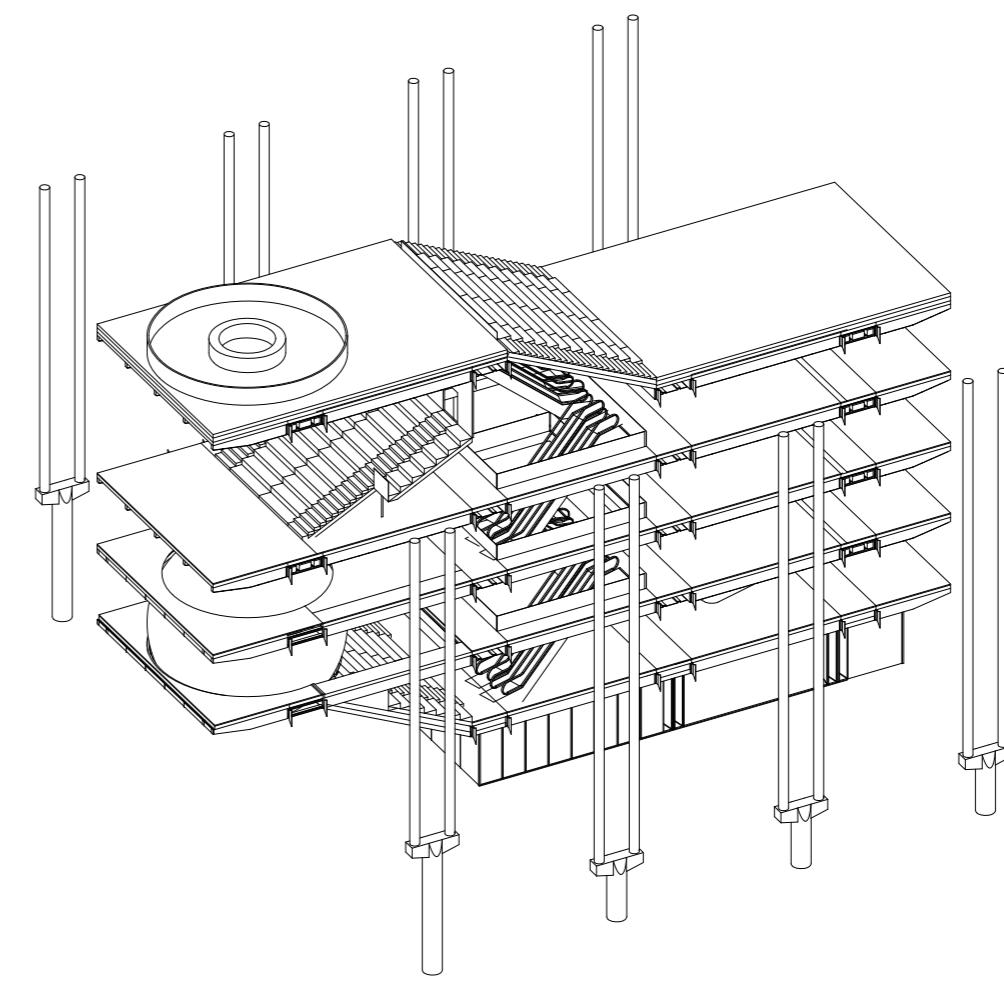
structure that can be inhabited by the atlas.
steel where necessary, wood where possible.
structure the square.
parking garage. For building and neighbours.
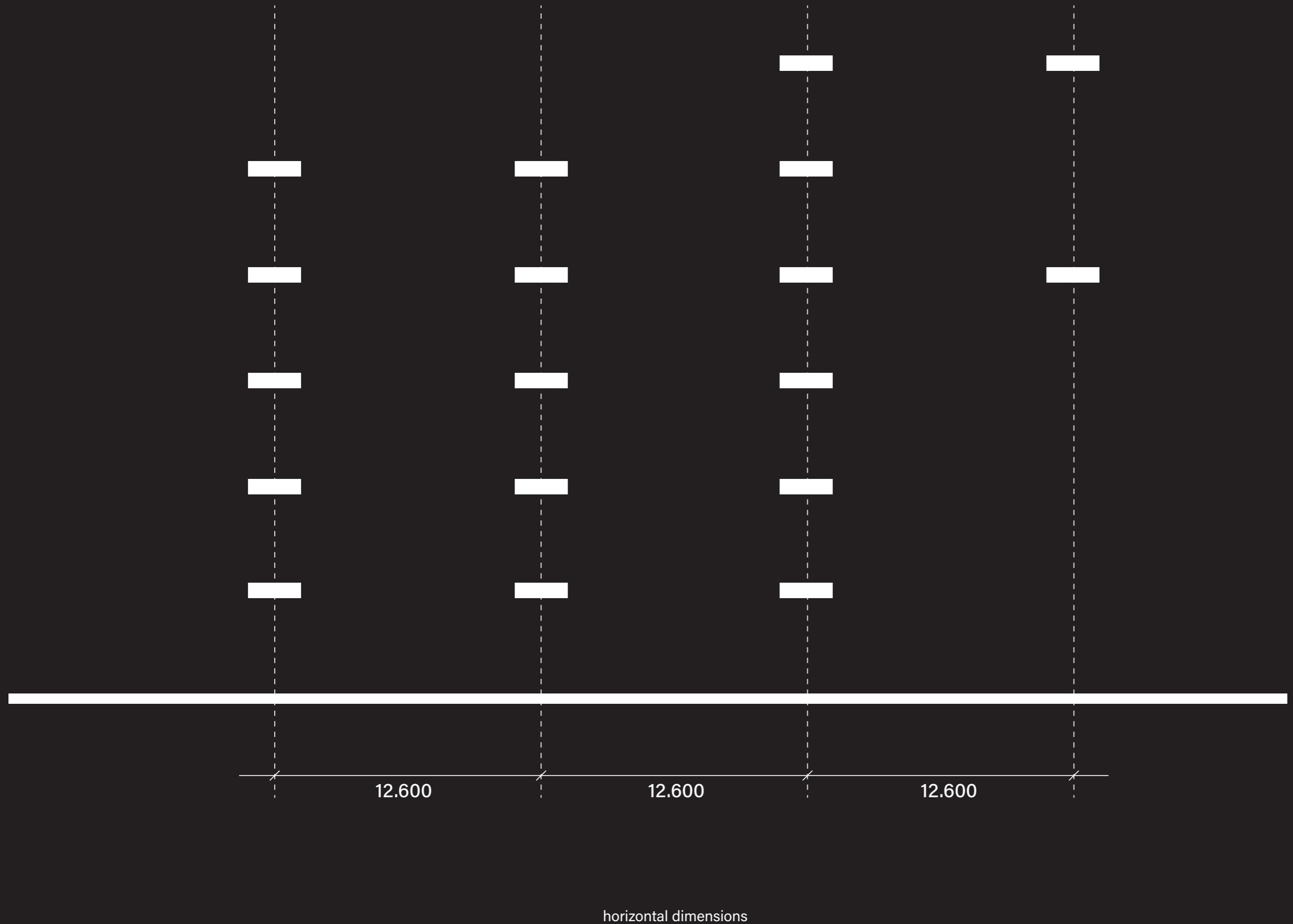
structural walkways
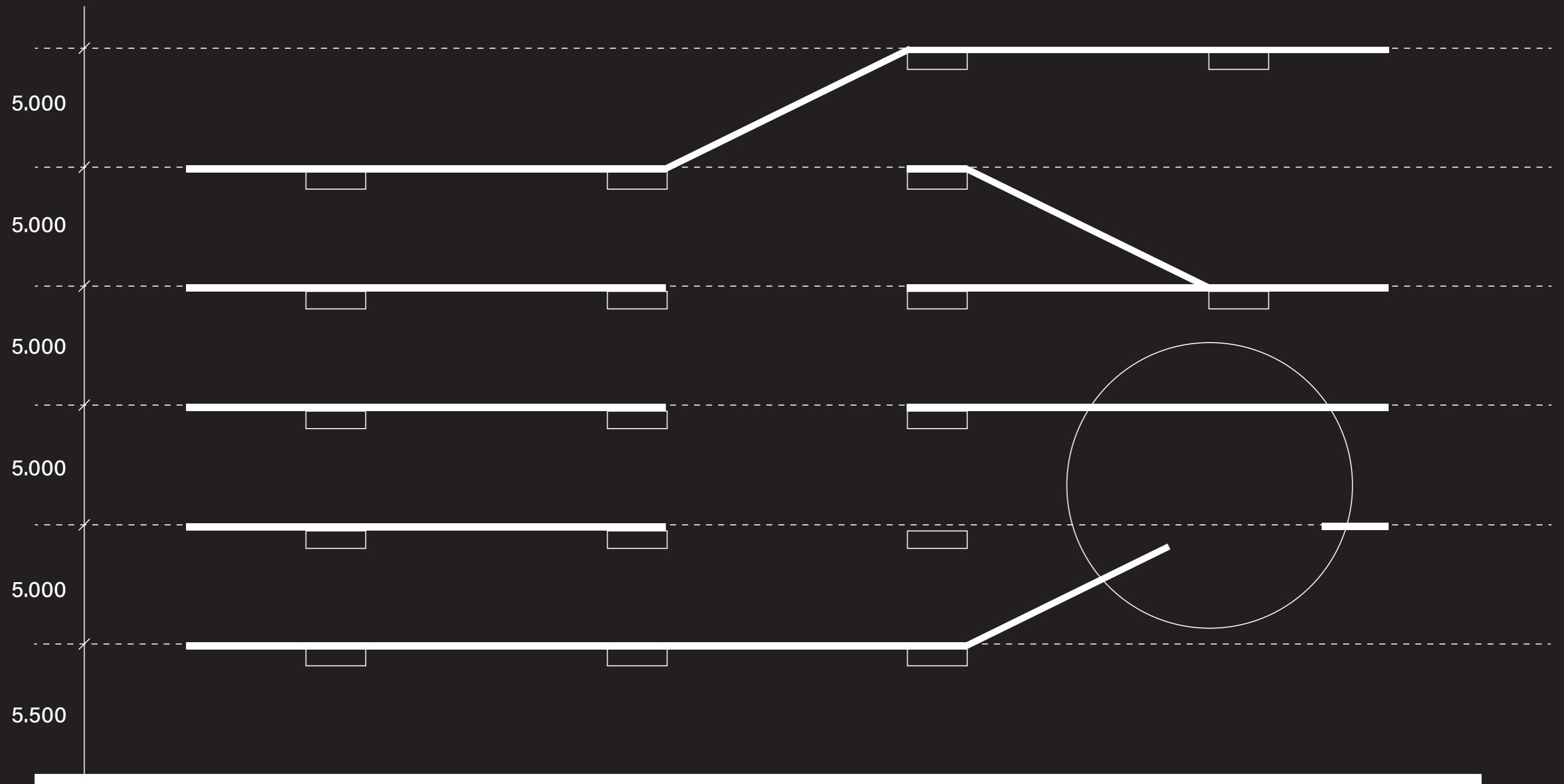
floors with program

assembly of the support

12.600   12.600   12.600

horizontal dimensions

5.000

5.000

5.000

5.000

5.000

5.500
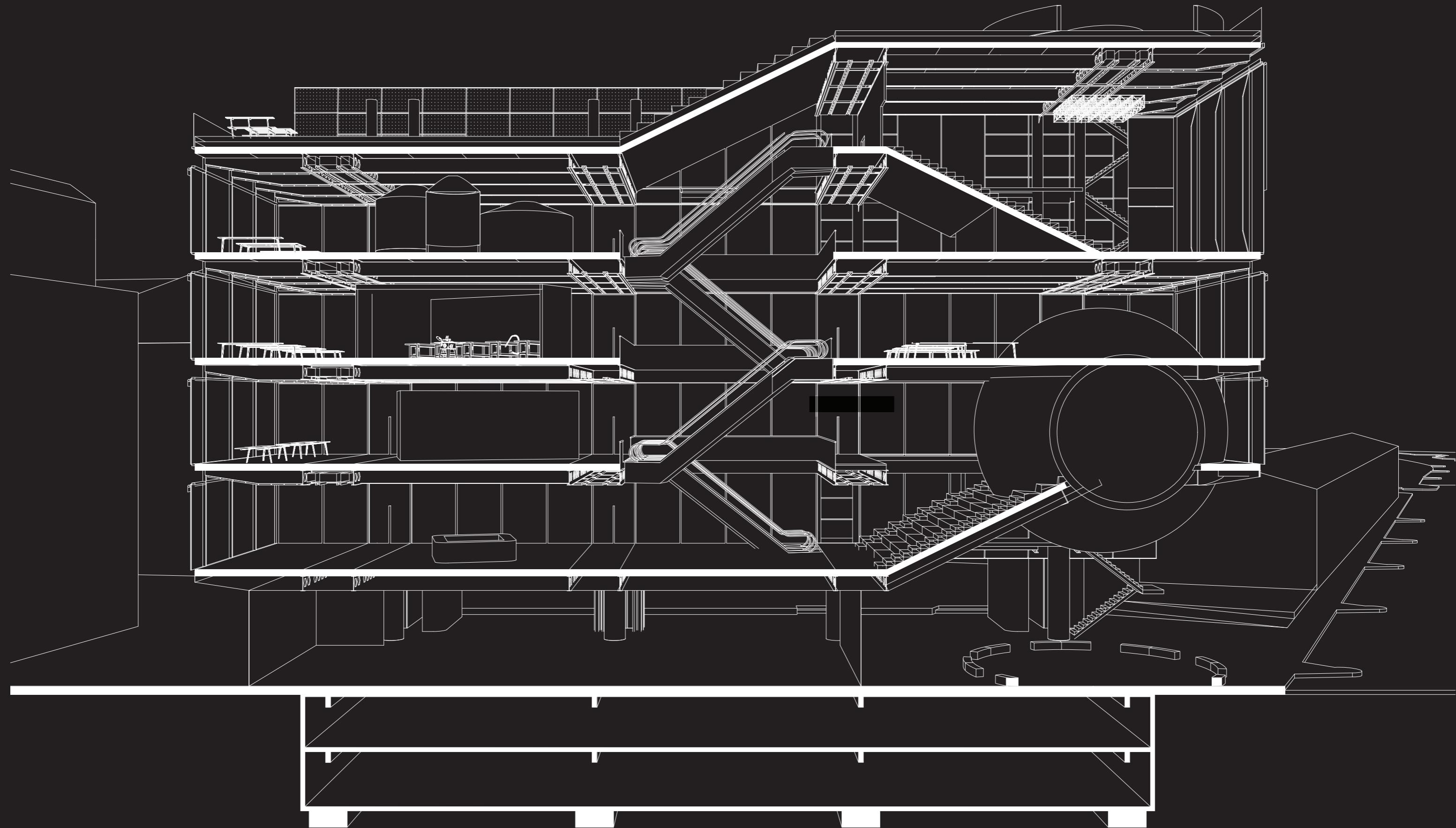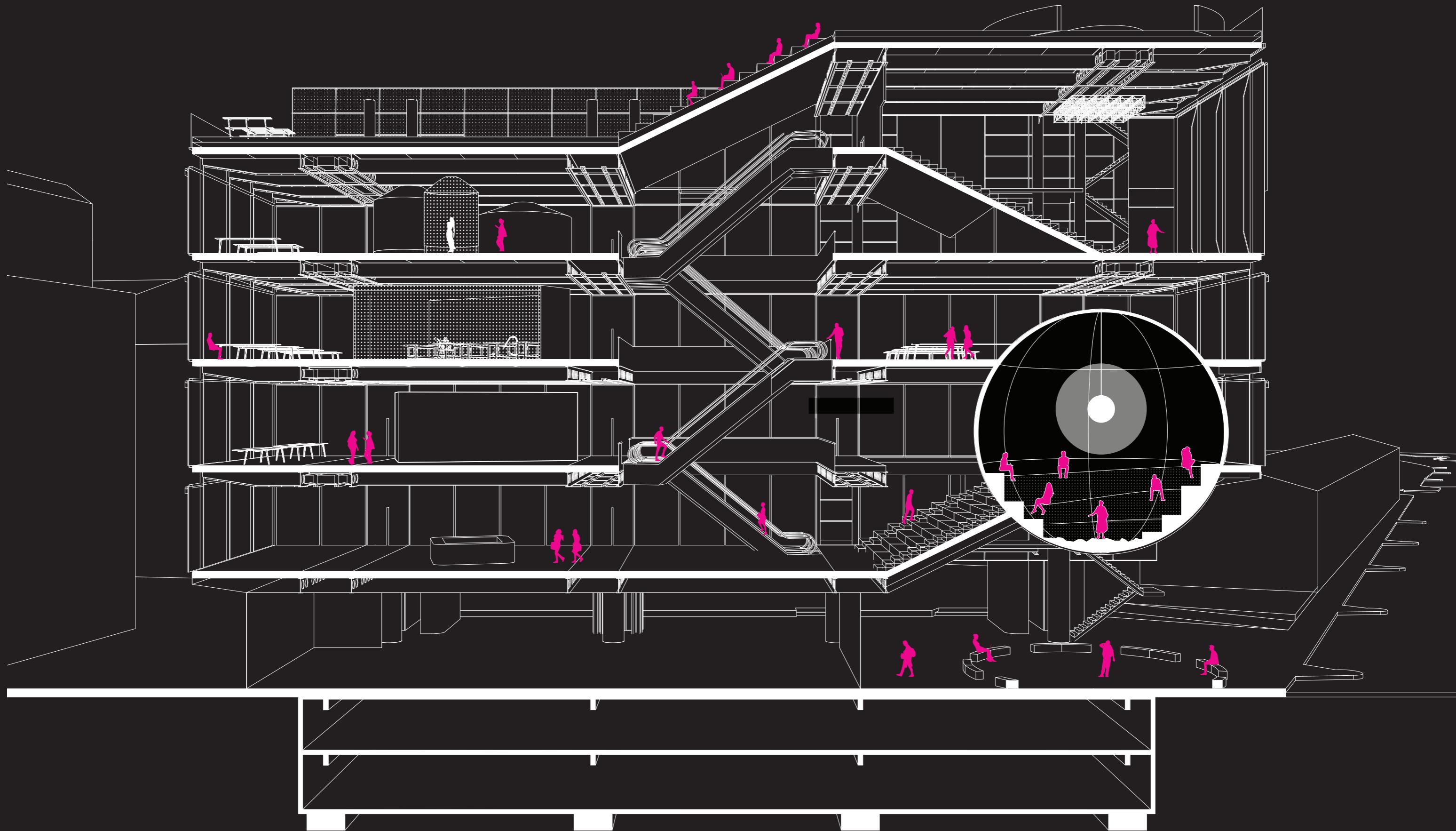
vertical dimensions

section BB - spaces
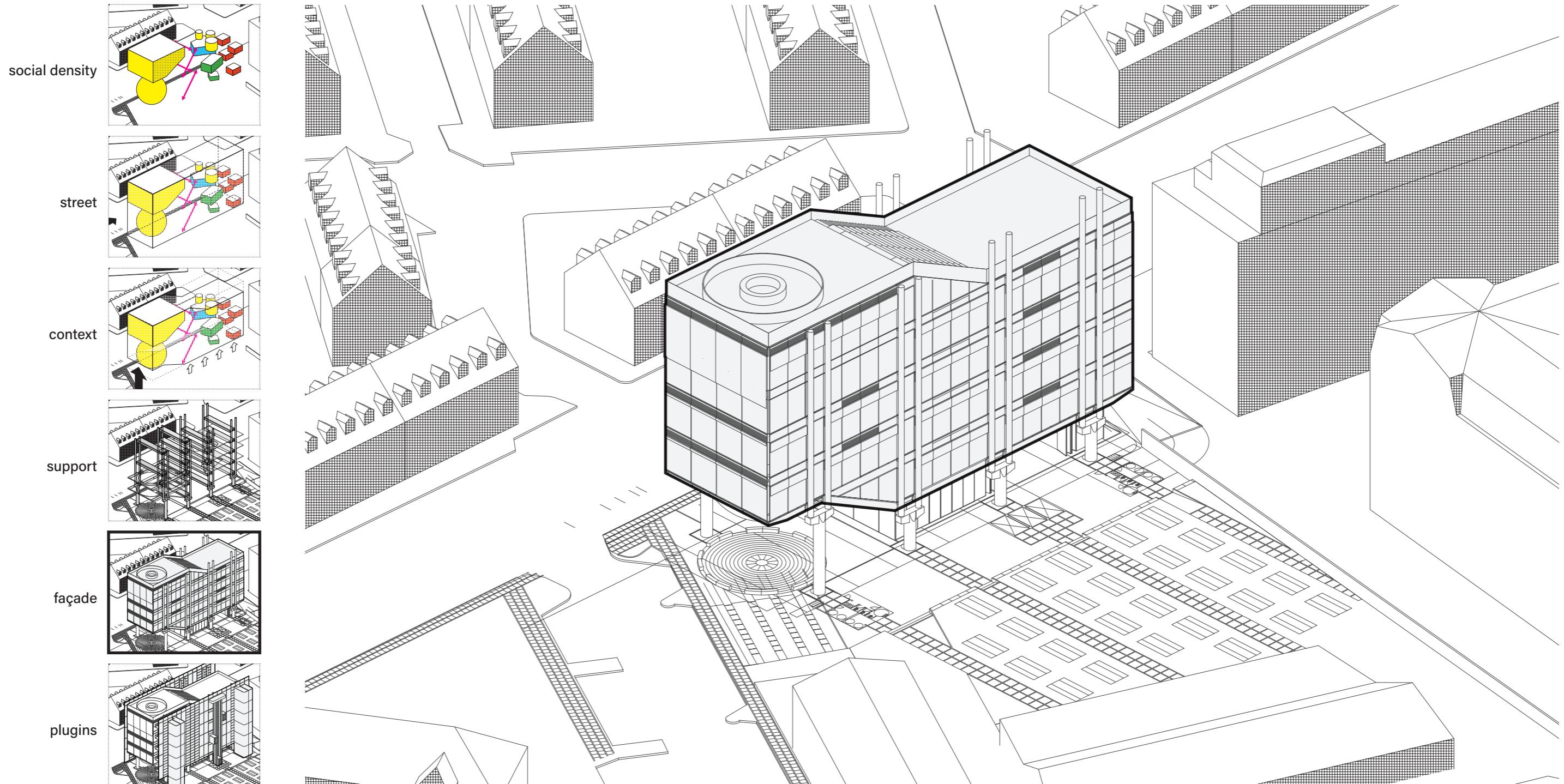
5   2   2   1
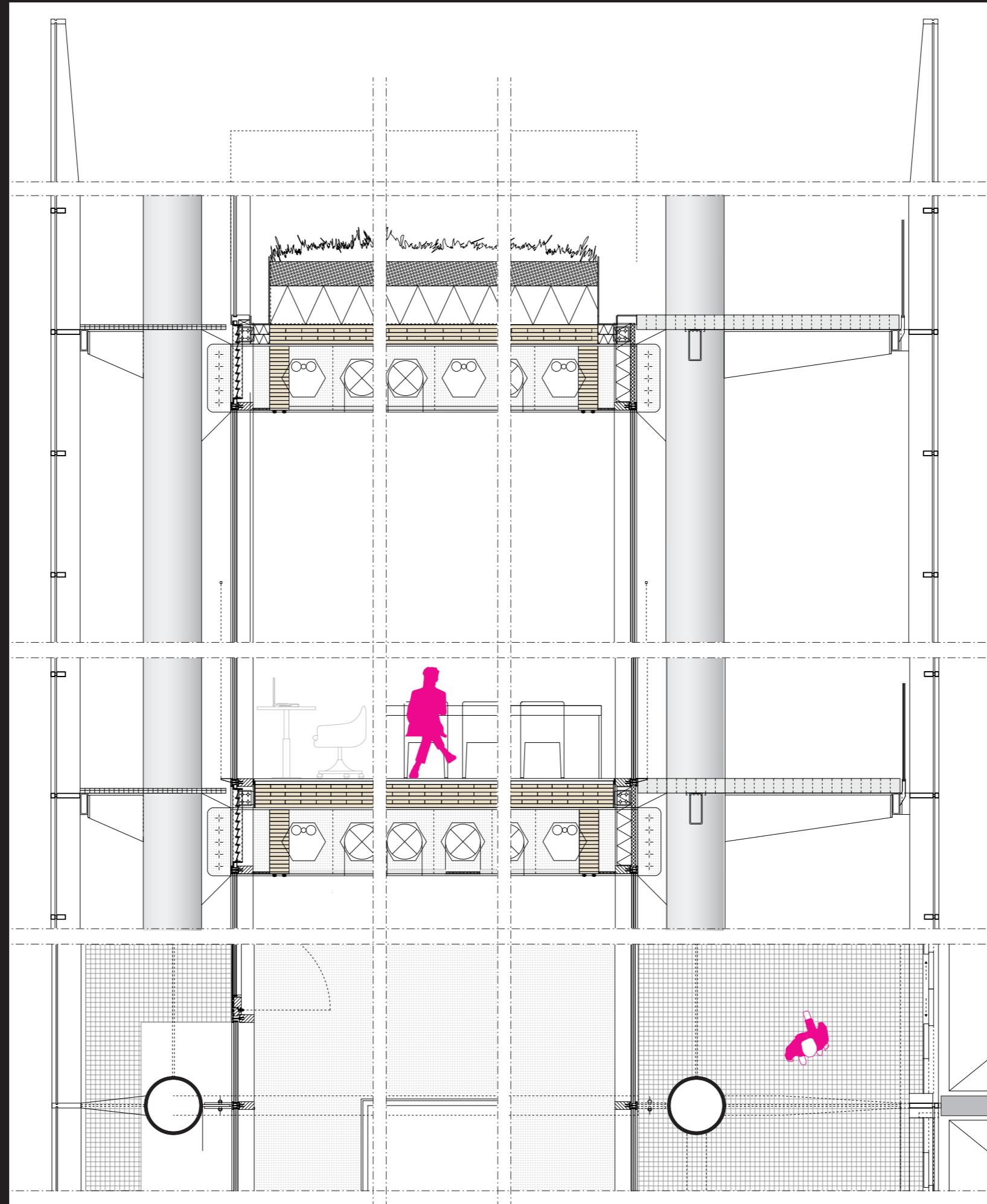
section BB - life

5 2 2 1

social density

street

context

support

façade

plugins
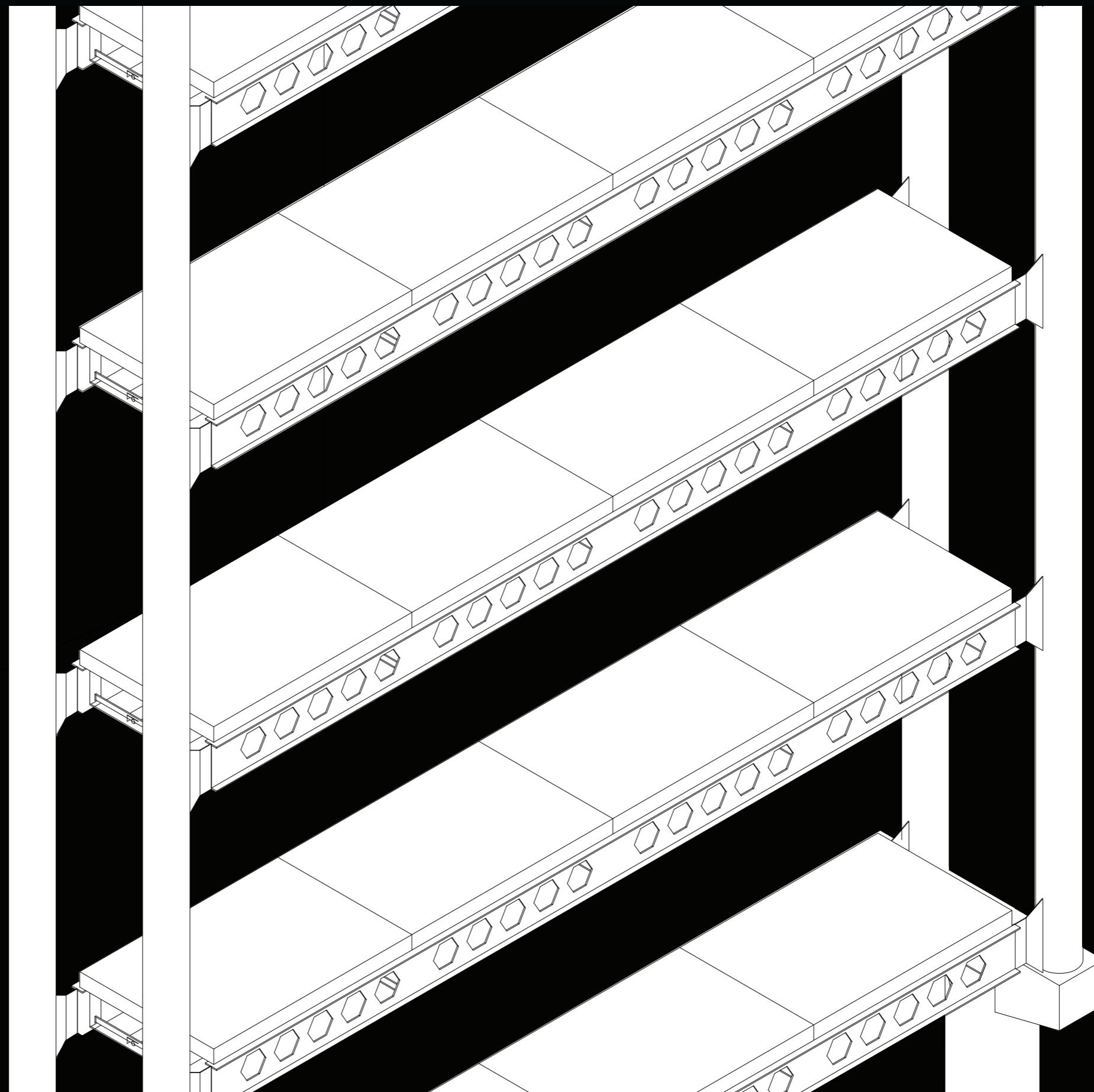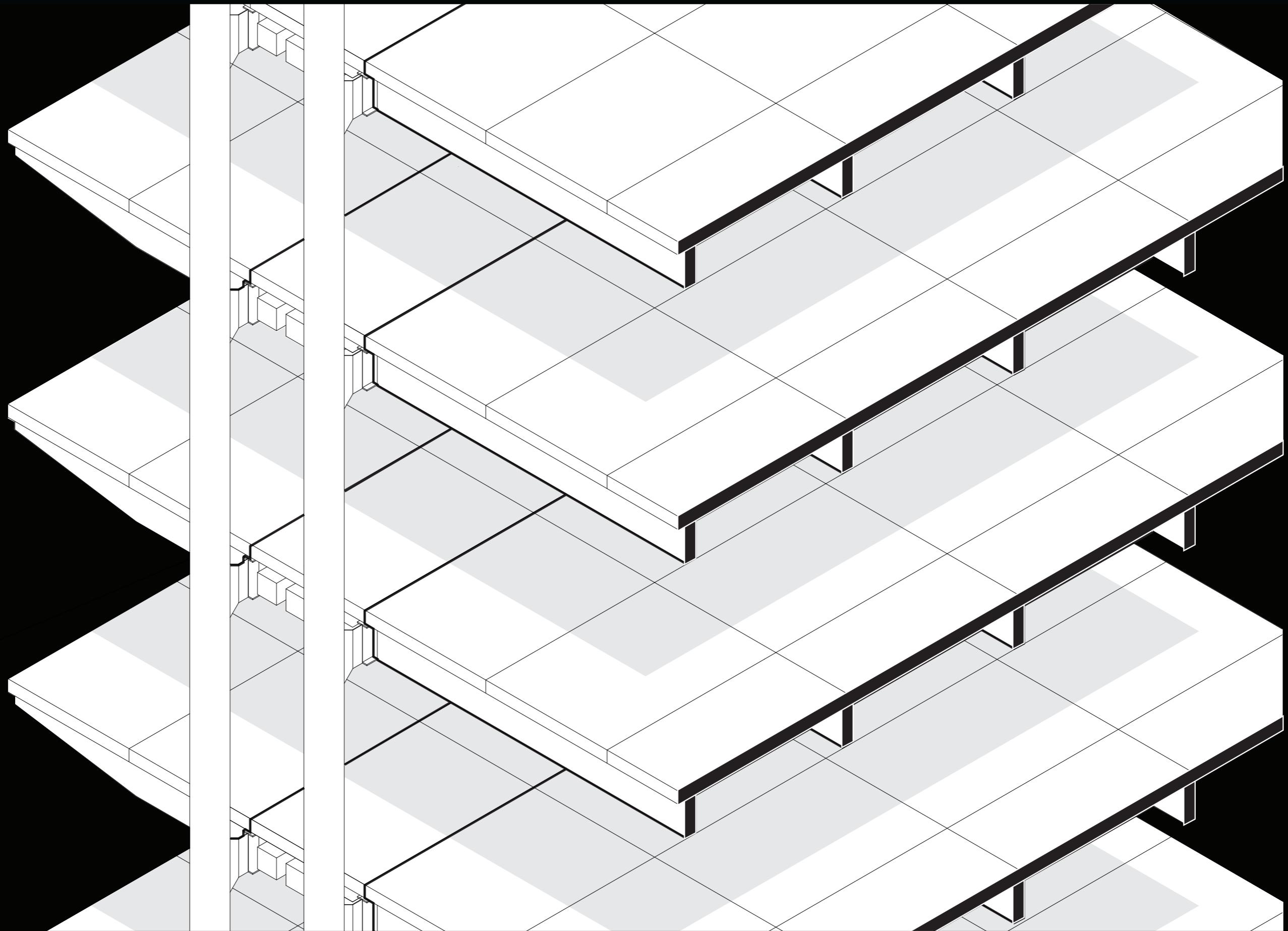
triple glass.
exterior shading.
wood-aluminium composite frames.

fragment of AA section

support

glulam beams + CLT floors
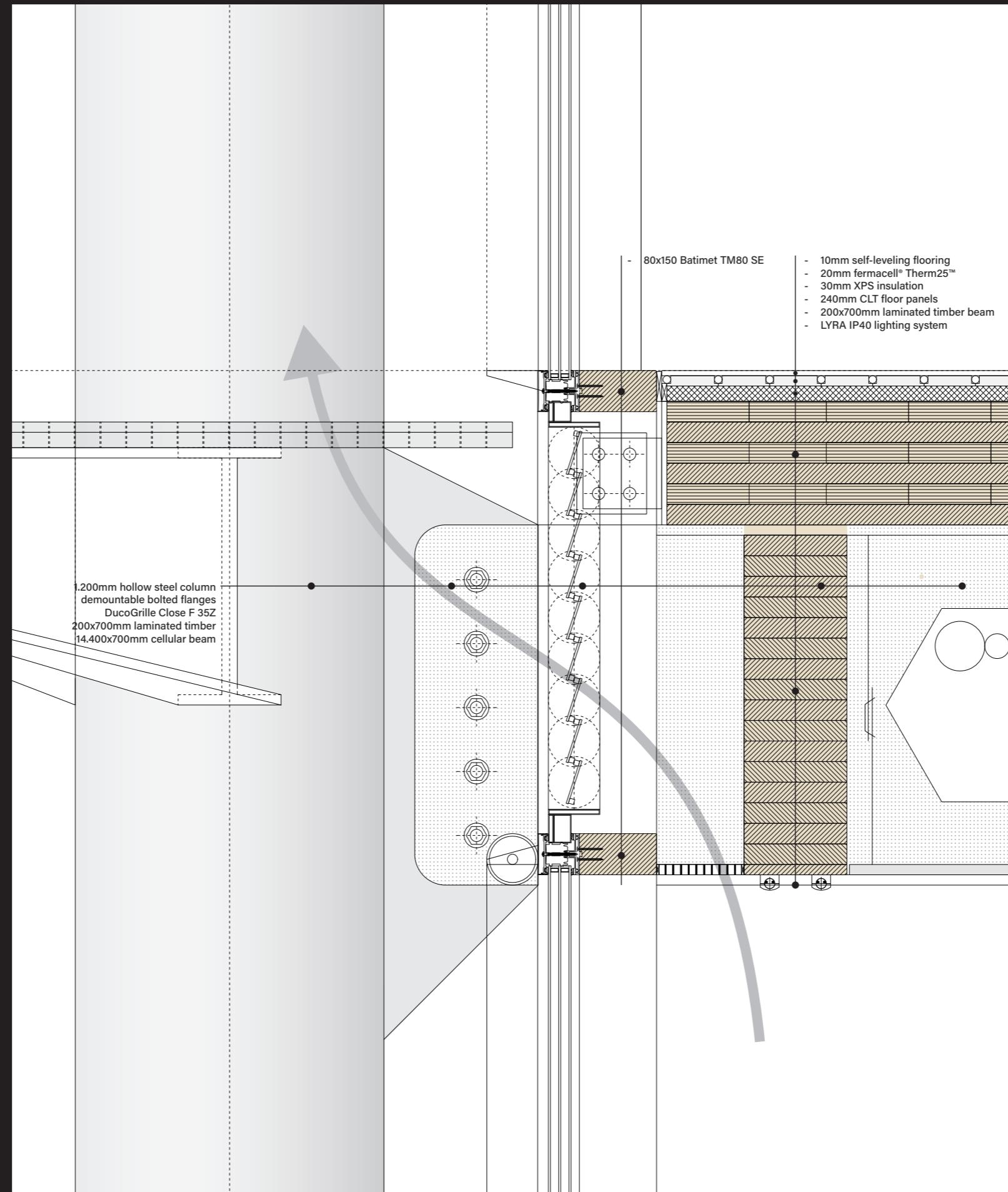
program + use

primary façade

double skin façade

- 80x150 Batimet TM80 SE

- 10mm self-leveling flooring
- 20mm fermacell® Therm25™
- 30mm XPS insulation
- 240mm CLT floor panels
- 200x700mm laminated timber beam
- LYRA IP40 lighting system

1.200mm hollow steel column
demountable bolted flanges
DucoGrille Close F 35Z
200x700mm laminated timber
14.400x700mm cellular beam
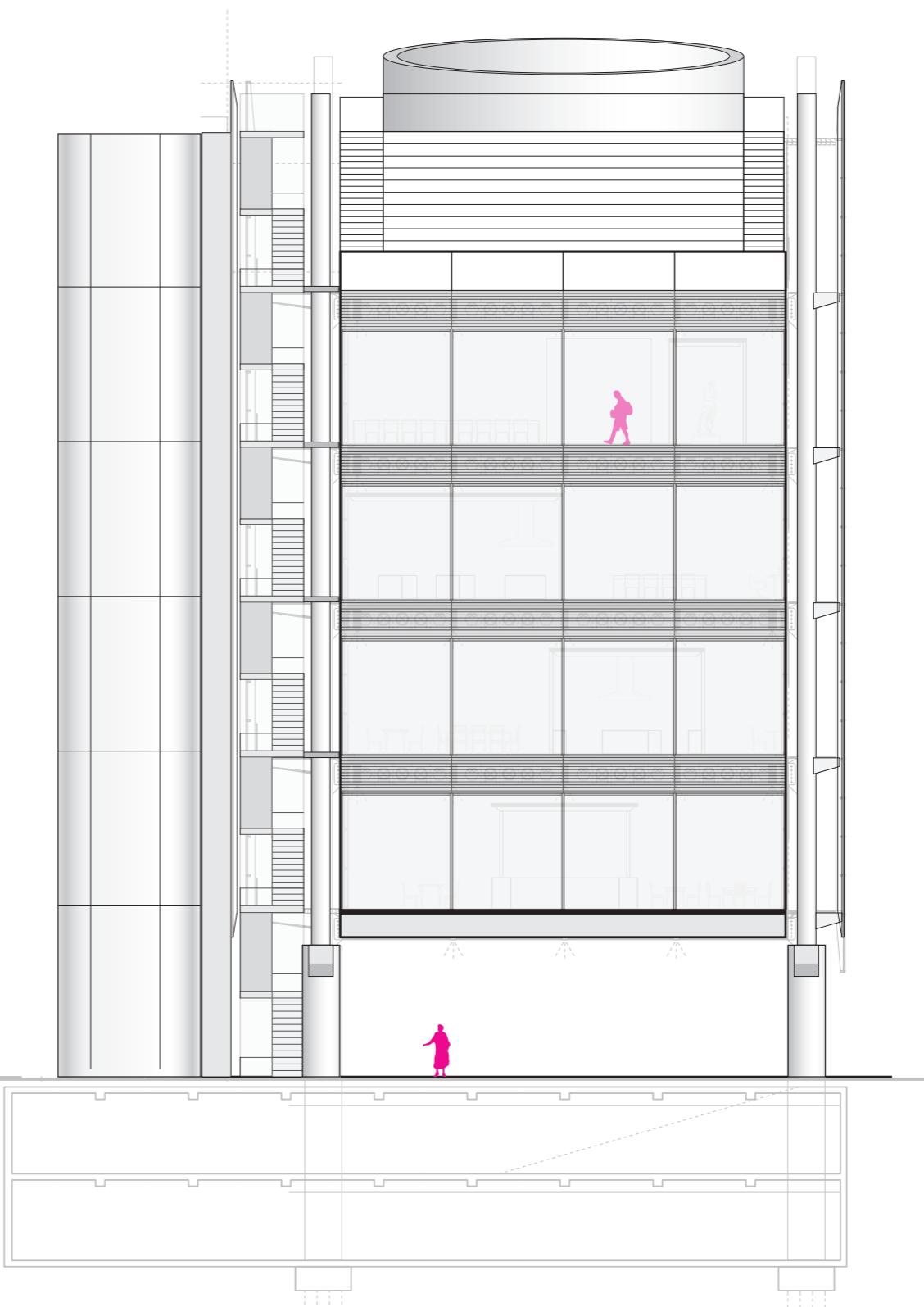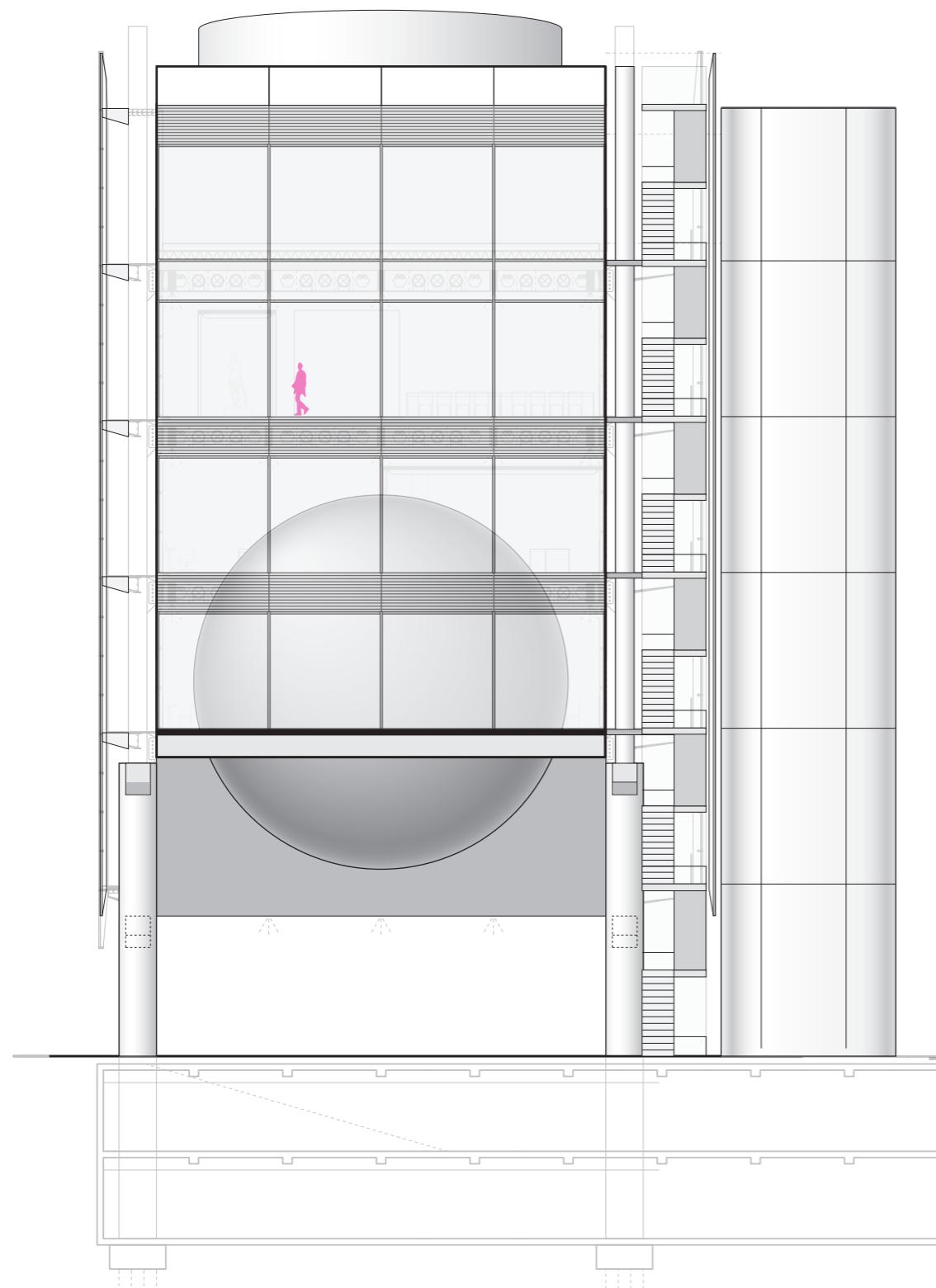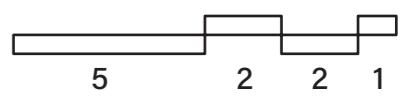
typical floor detail, double skin situation

façade detail - model photography
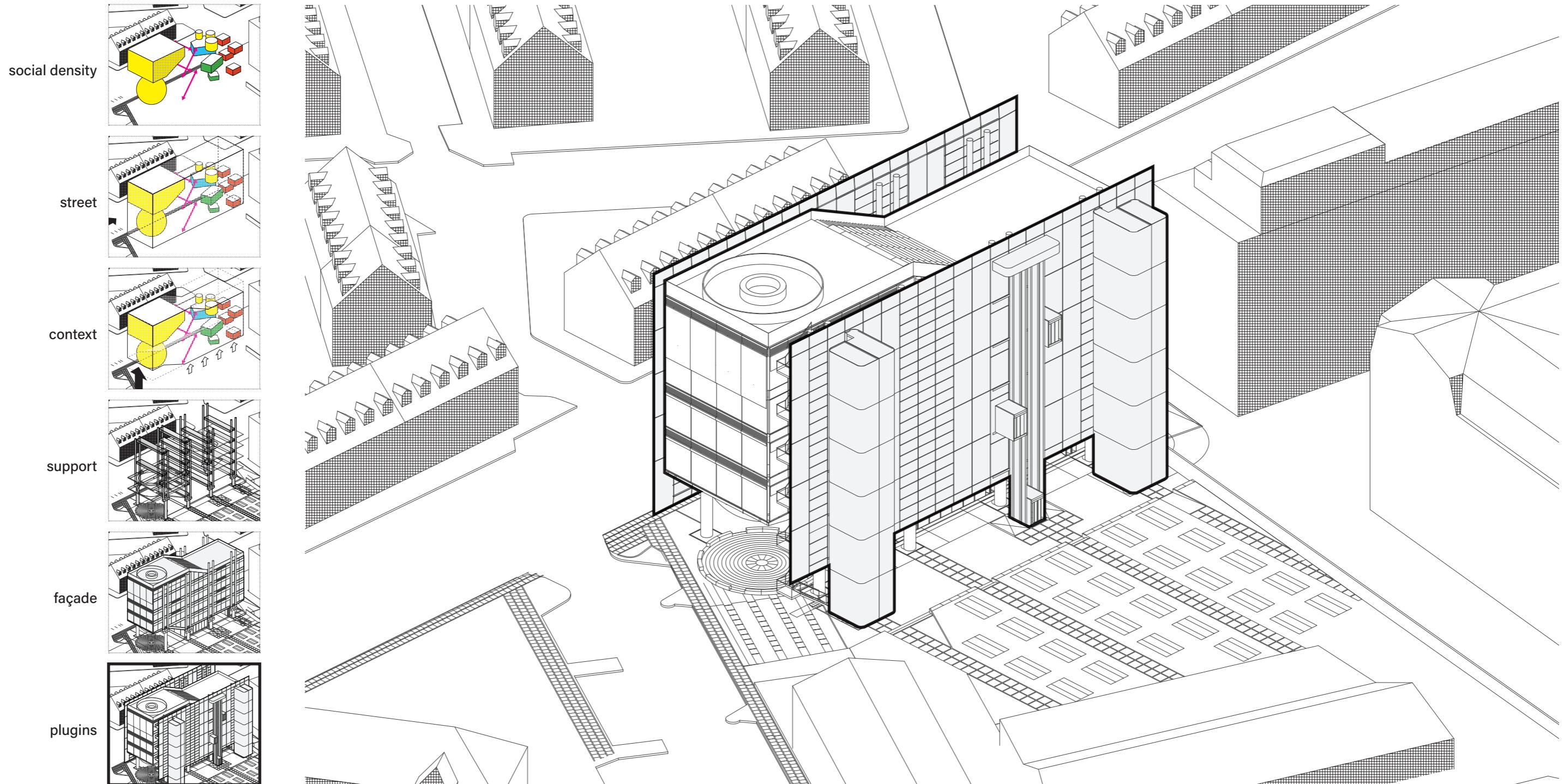
NE and SW façades
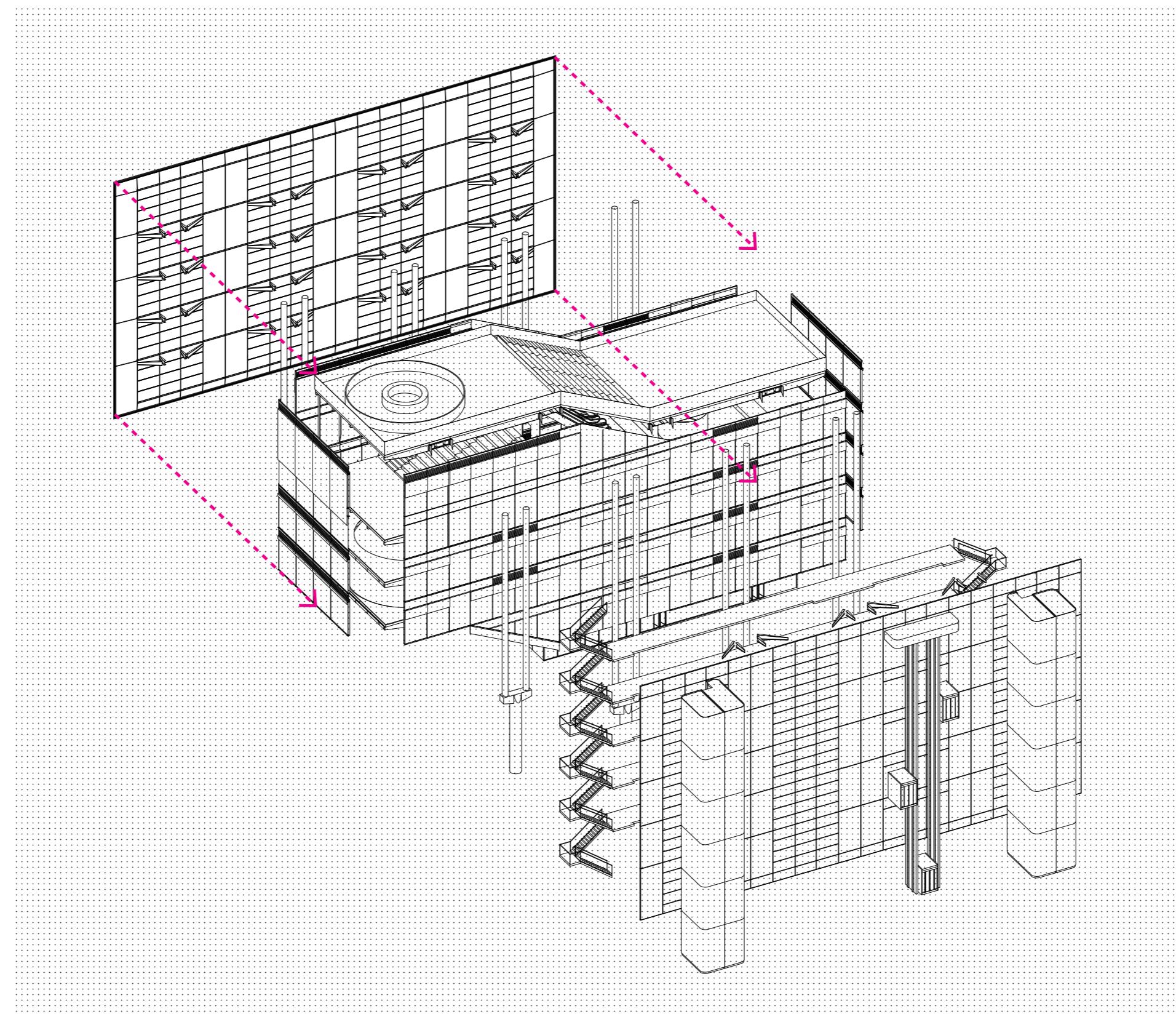
façade - model photography

plugins

social density

street

context

support

façade

plugins
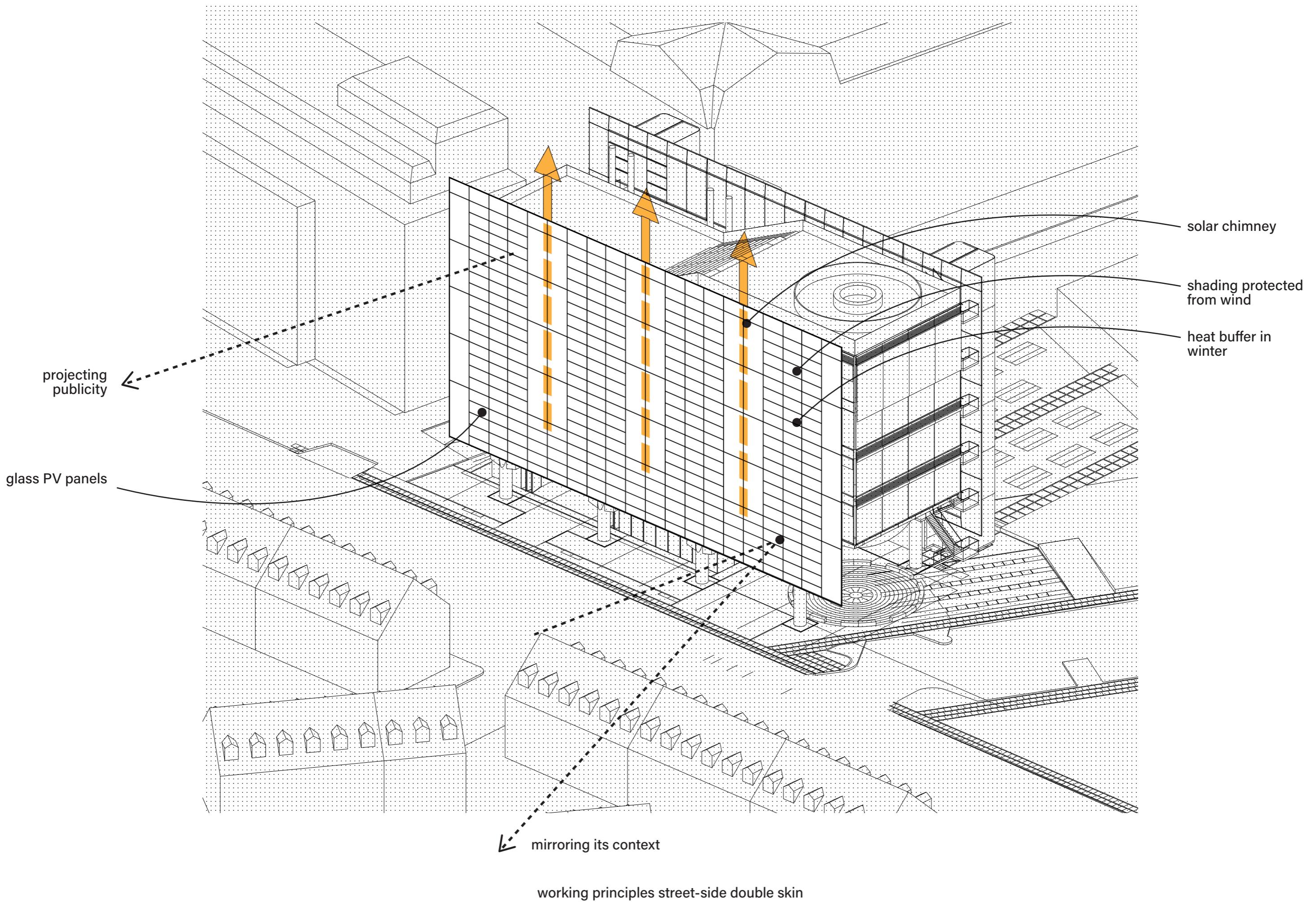
'the architect creates not life, but conditions for life'. - Kay Fisker
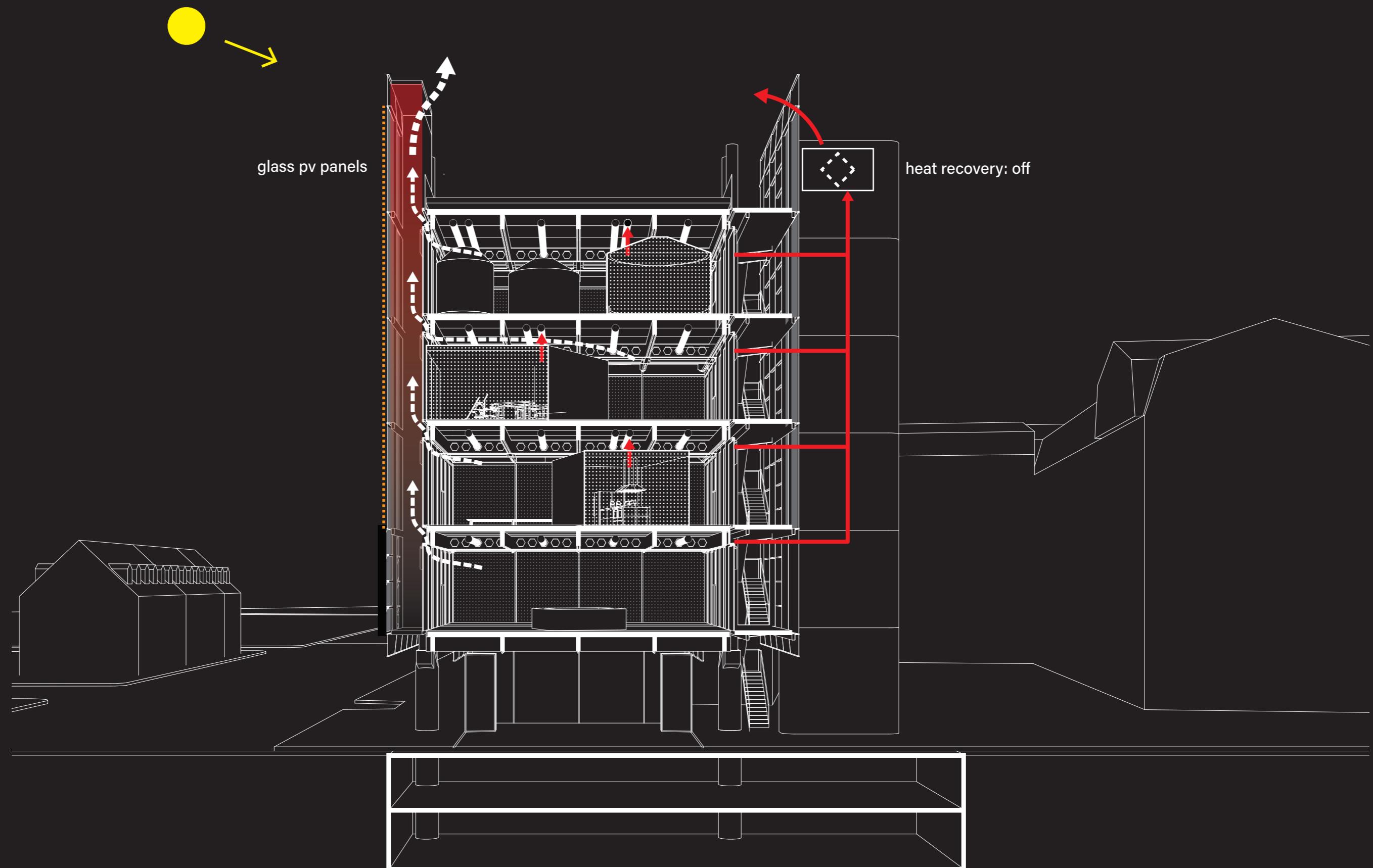
double skin - streetside

a blanket, a mirror, a screen.

solar chimney

shading protected
from wind

heat buffer in
winter

projecting
publicity

glass PV panels

mirroring its context

working principles street-side double skin
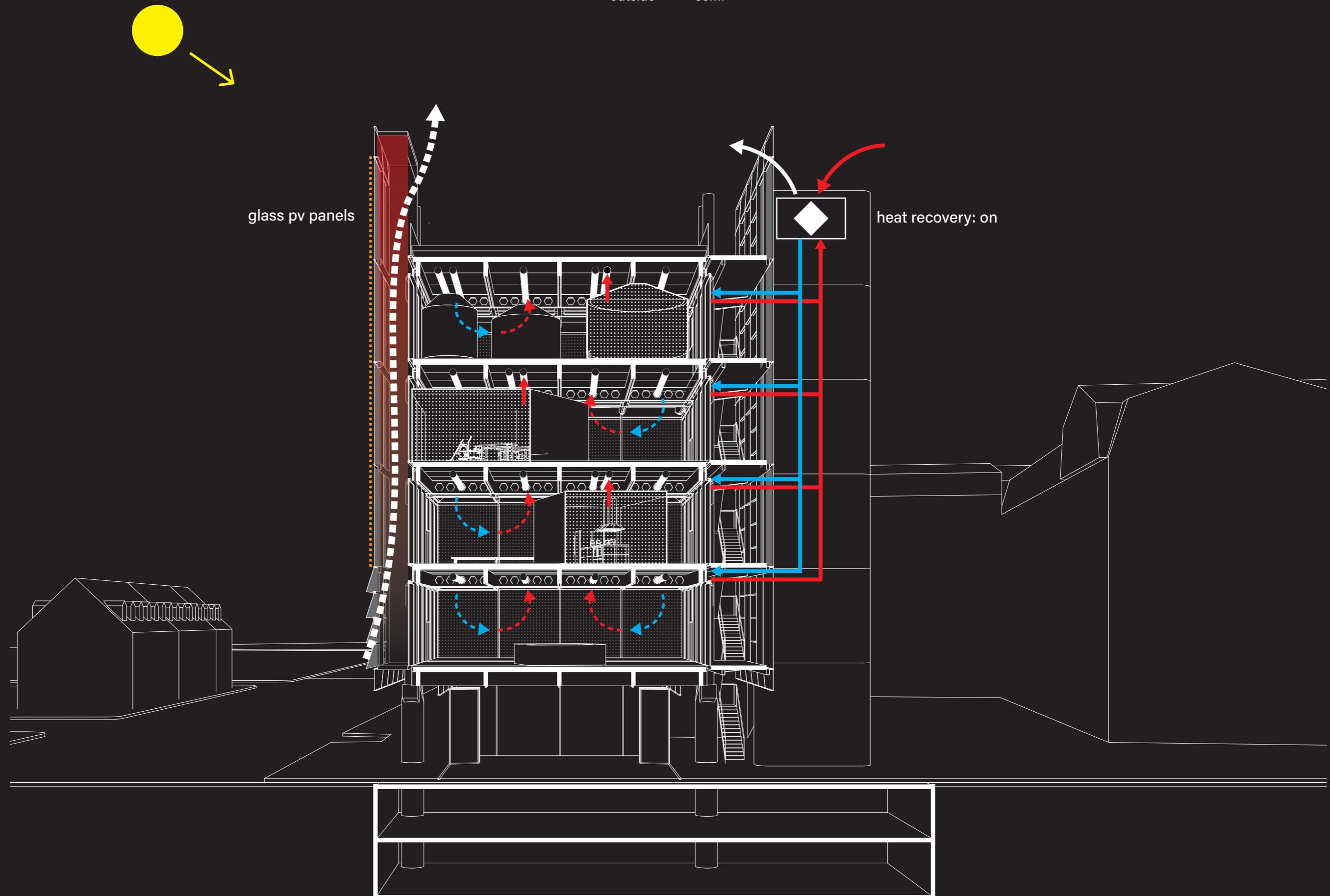
in-between: $T_{outside} = T_{comf}$

glass pv panels

heat recovery: off

section AA
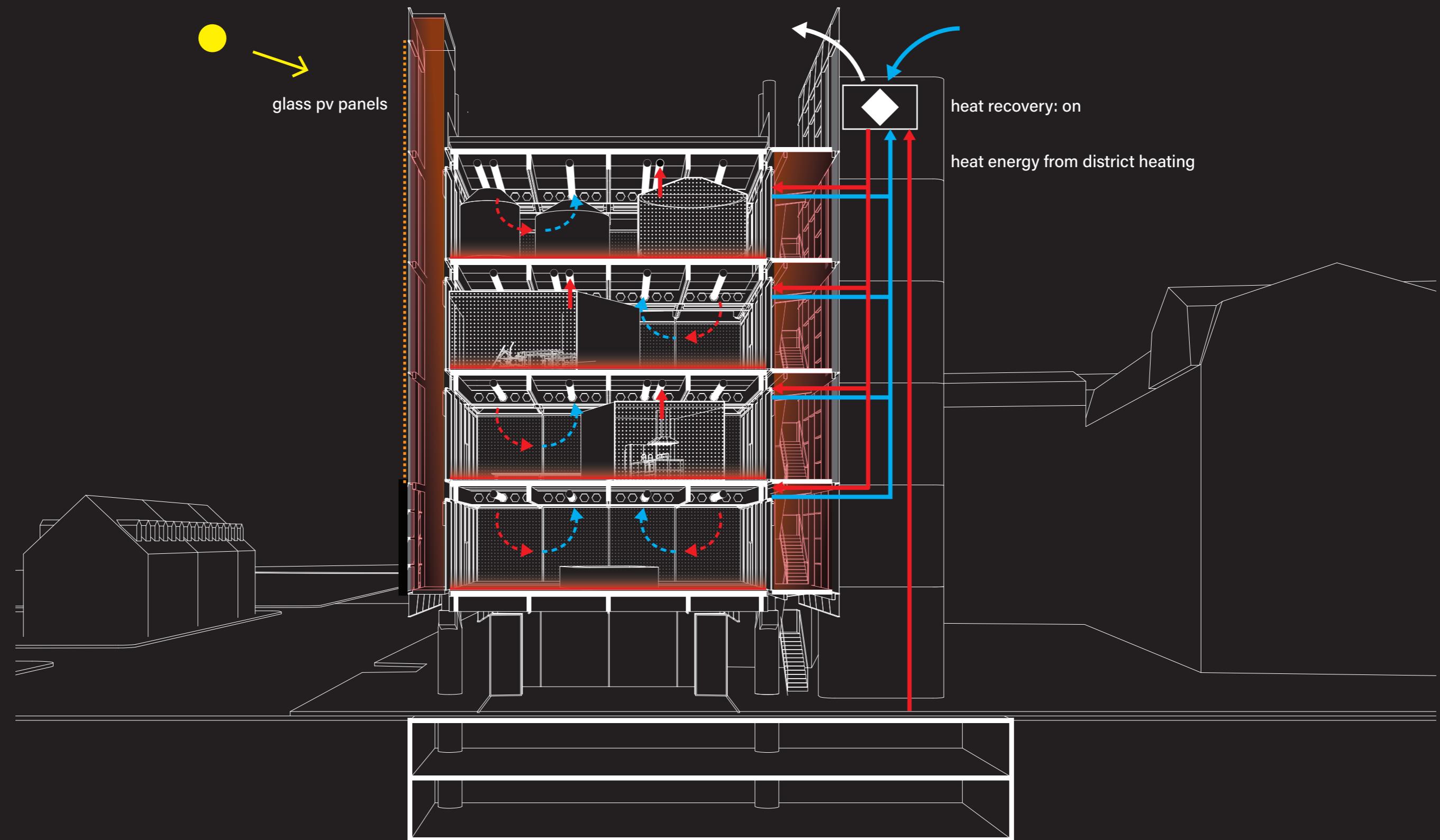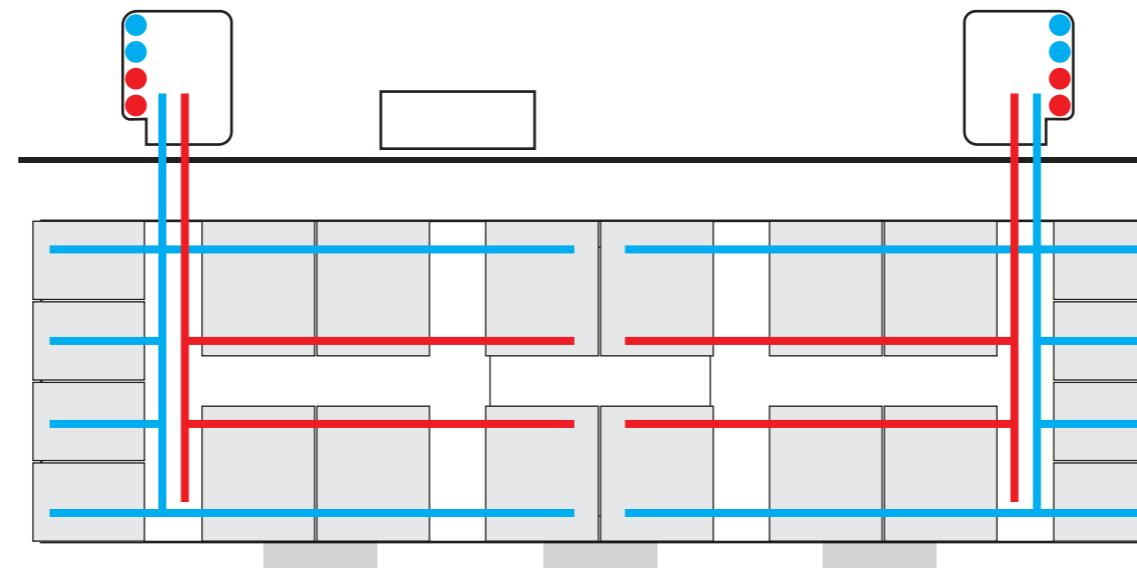
5   2   2   1

high summer: $T_{outside} > T_{comf}$

glass pv panels

heat recovery: on

section AA

5   2   2   1

cold: $T_{outside} < T_{comf}$

glass pv panels

heat recovery: on

heat energy from district heating

section AA

5   2   2   1
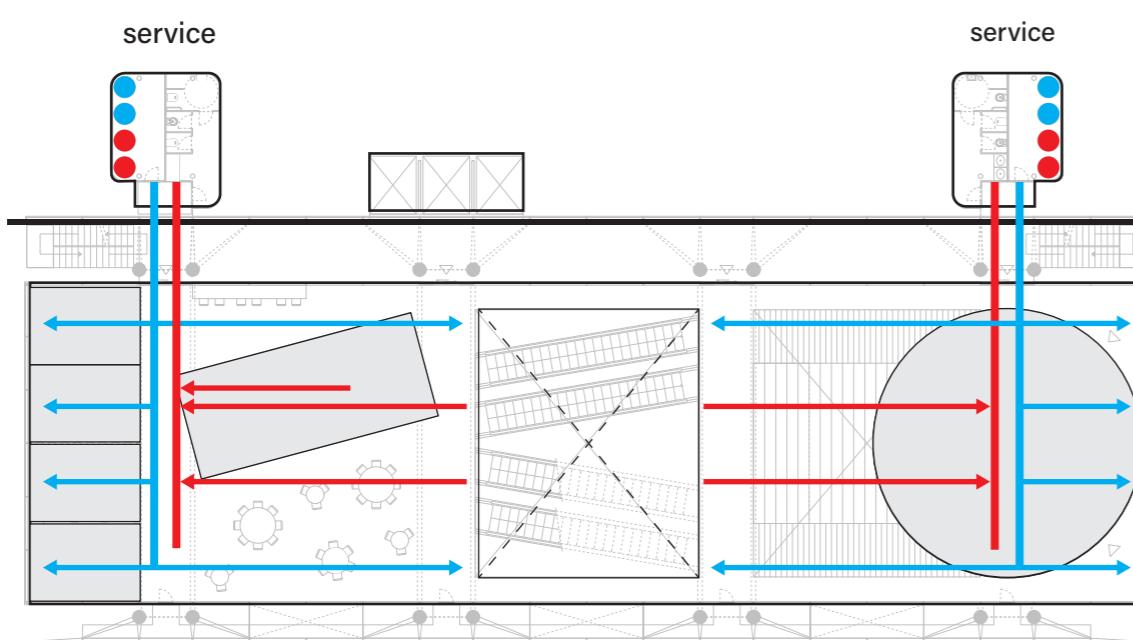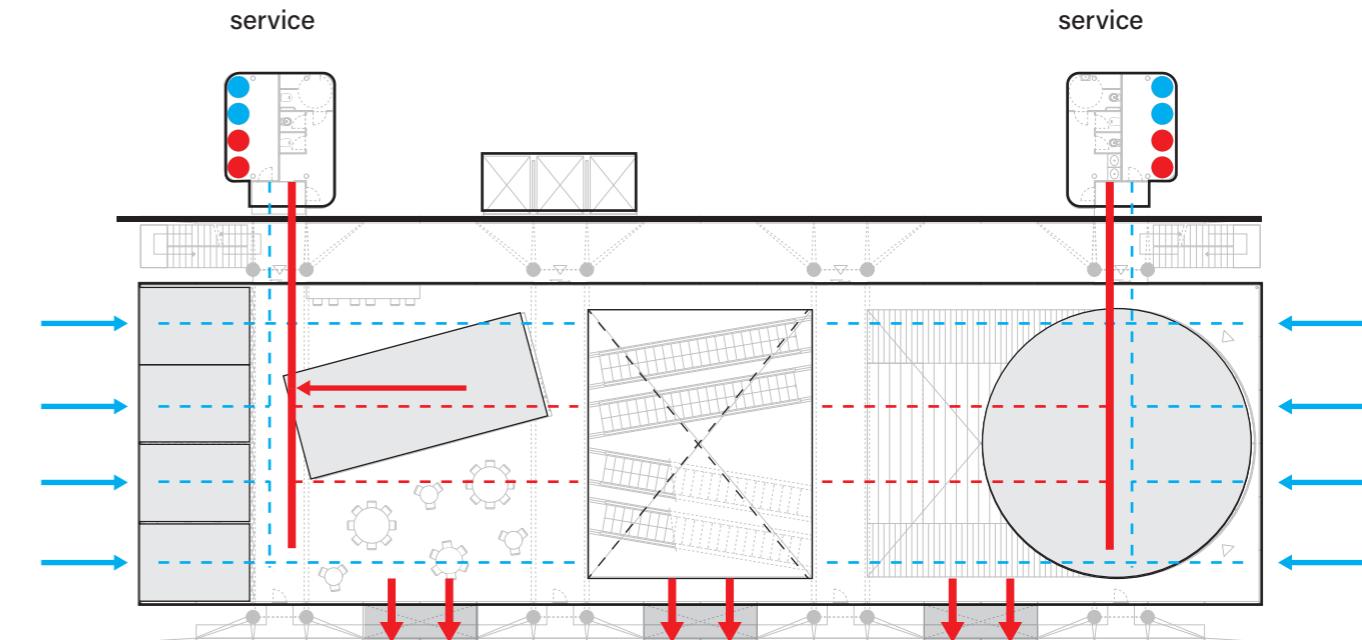
greatest common divisor

service

service
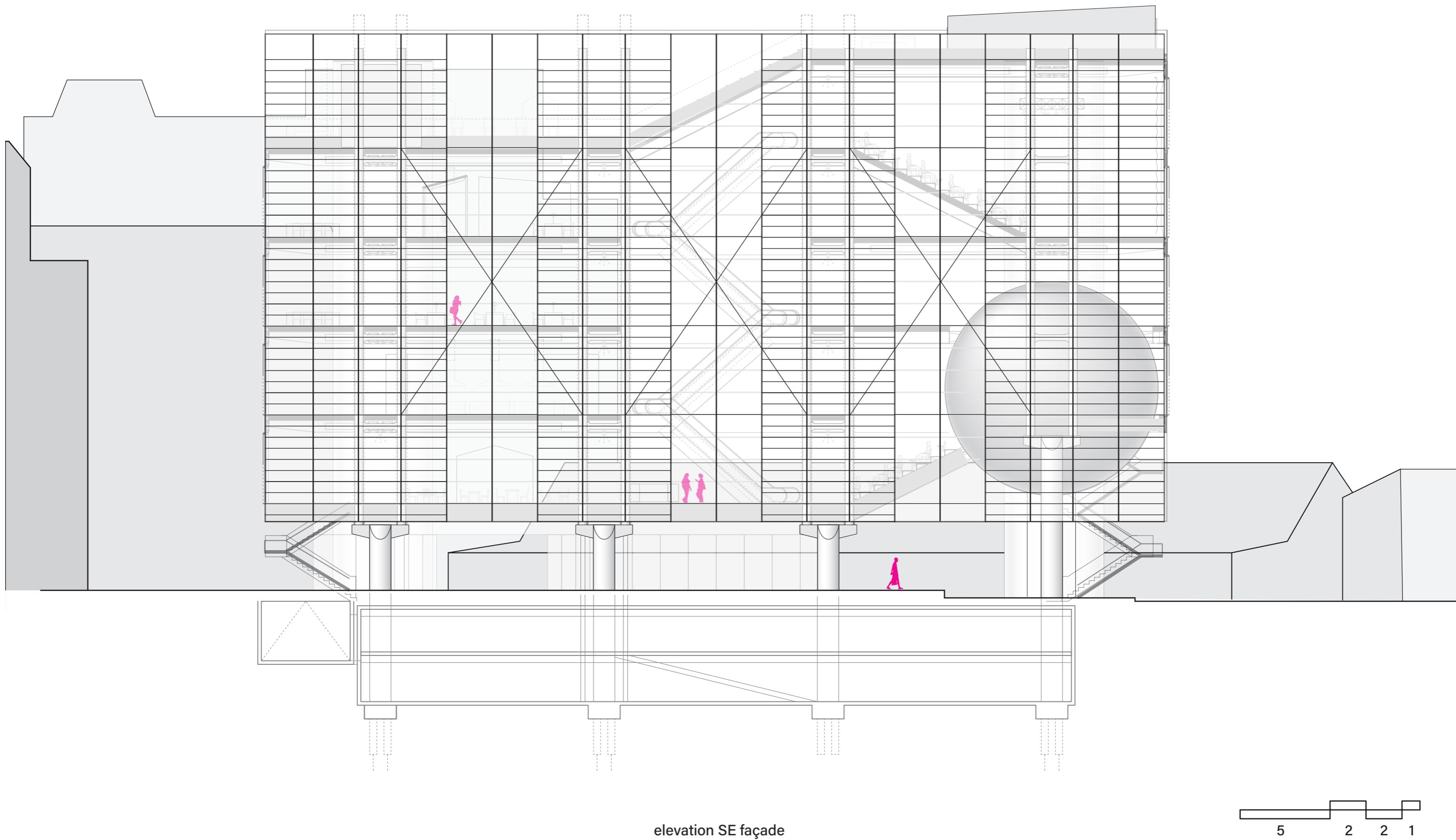
active ventilation

service

service

passive / hybrid ventilation

ventilation floor plans

elevation SE façade

5   2 2 1
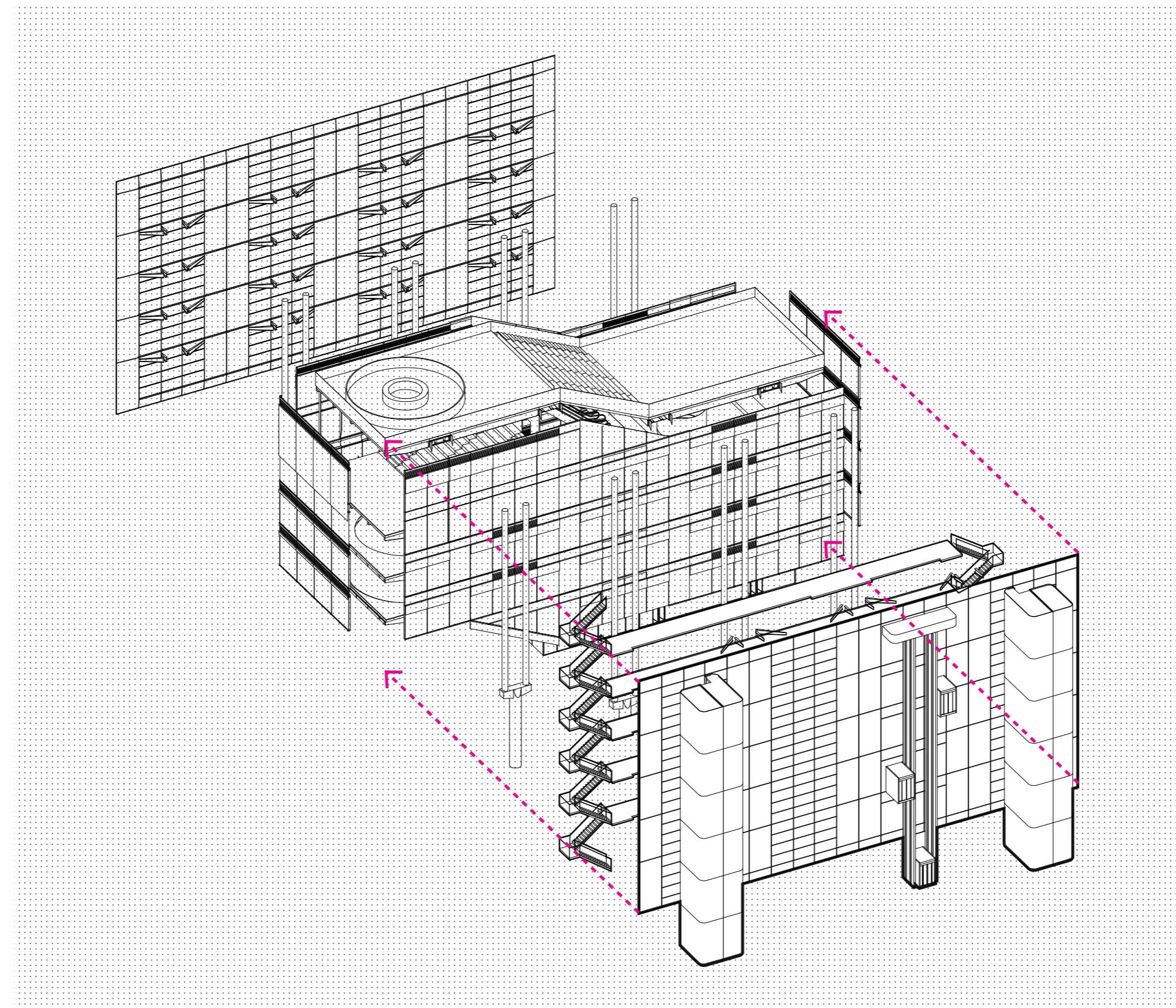
impression double skin from Haraldsgade
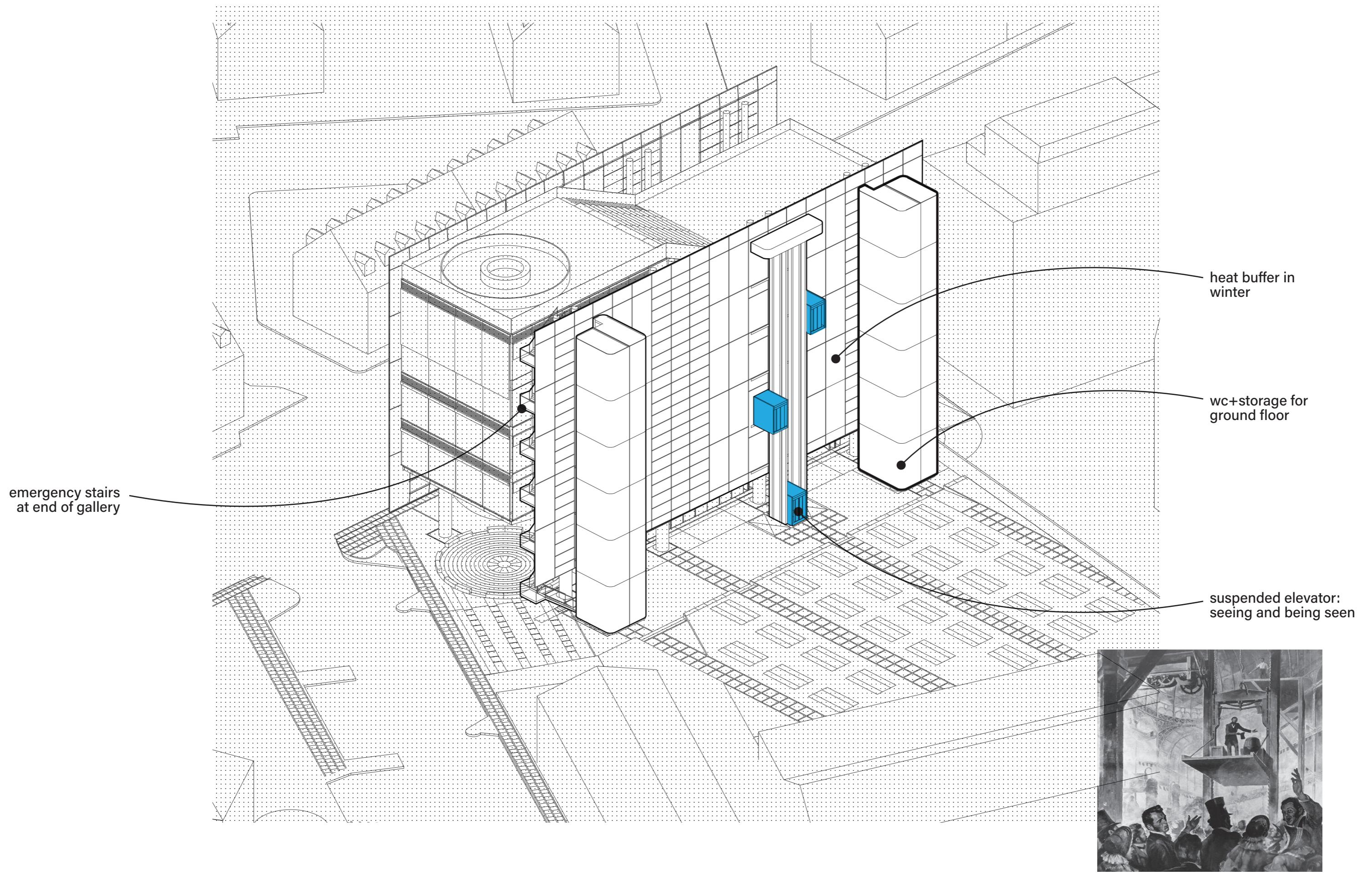
impression towards SE façade
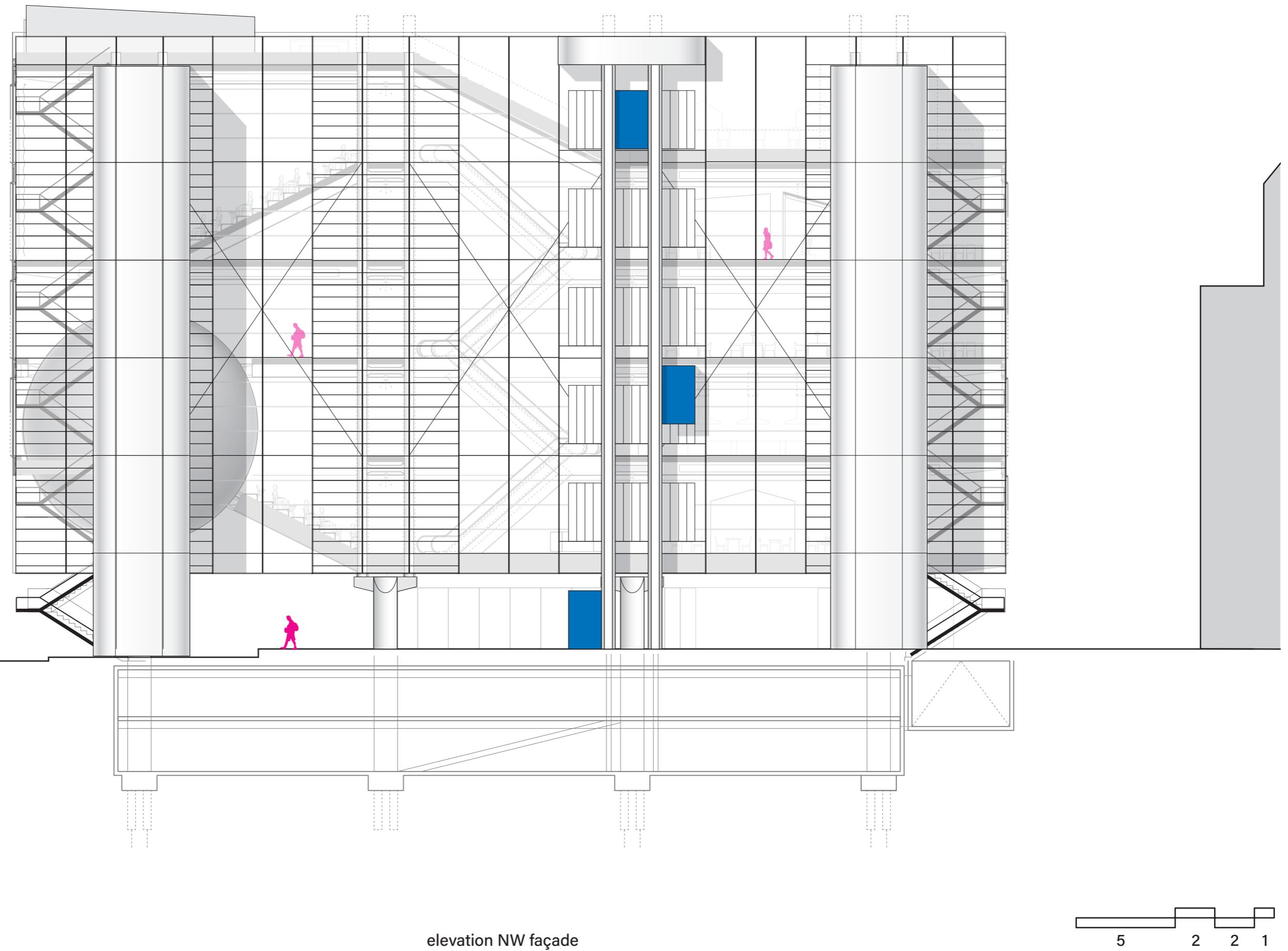
plugin building - square side

projecting publicness and rational movement.
movement as a feature.
heat buffer to reduce transmission losses.

heat buffer in
winter

wc+storage for
ground floor

emergency stairs
at end of gallery

suspended elevator:
seeing and being seen
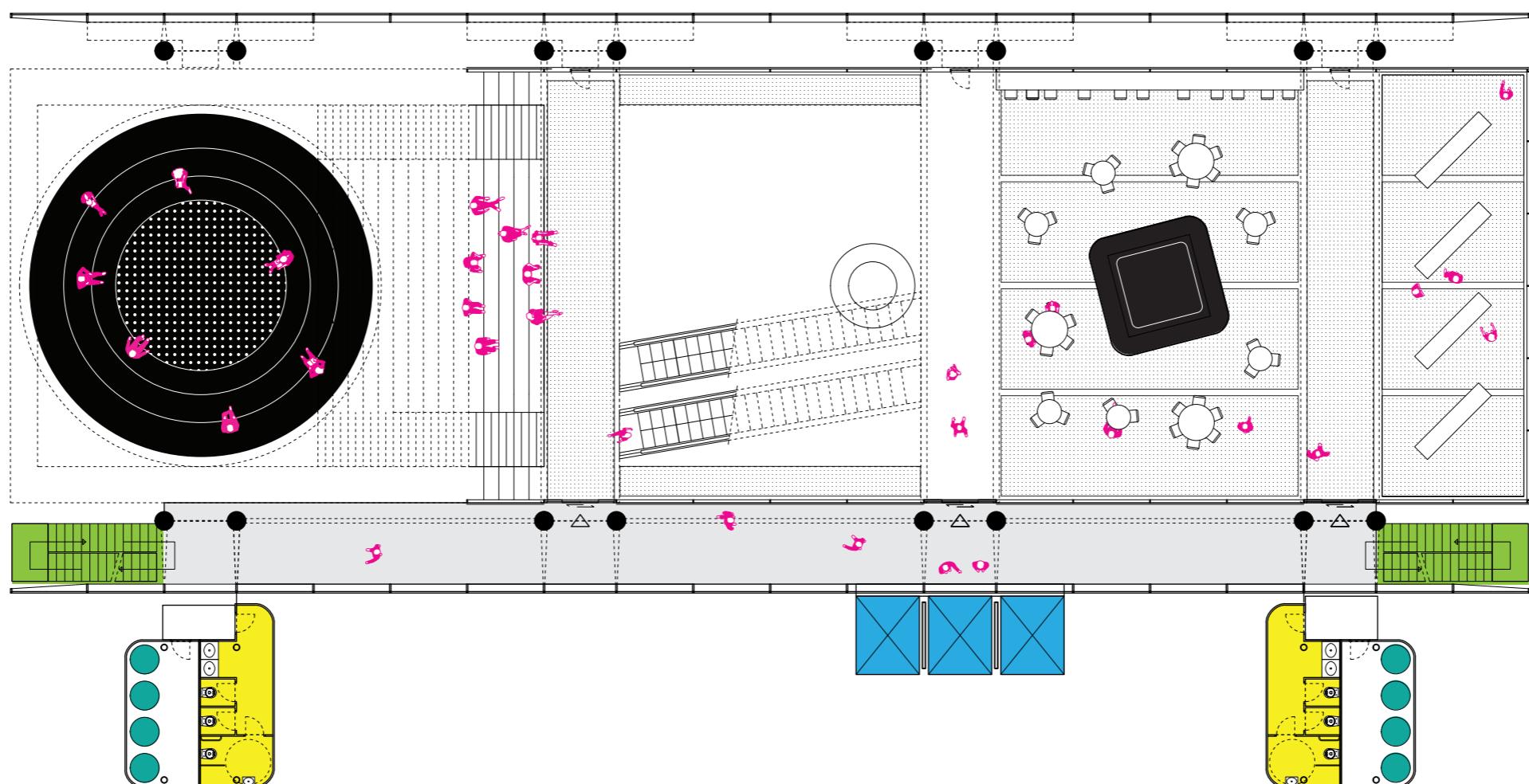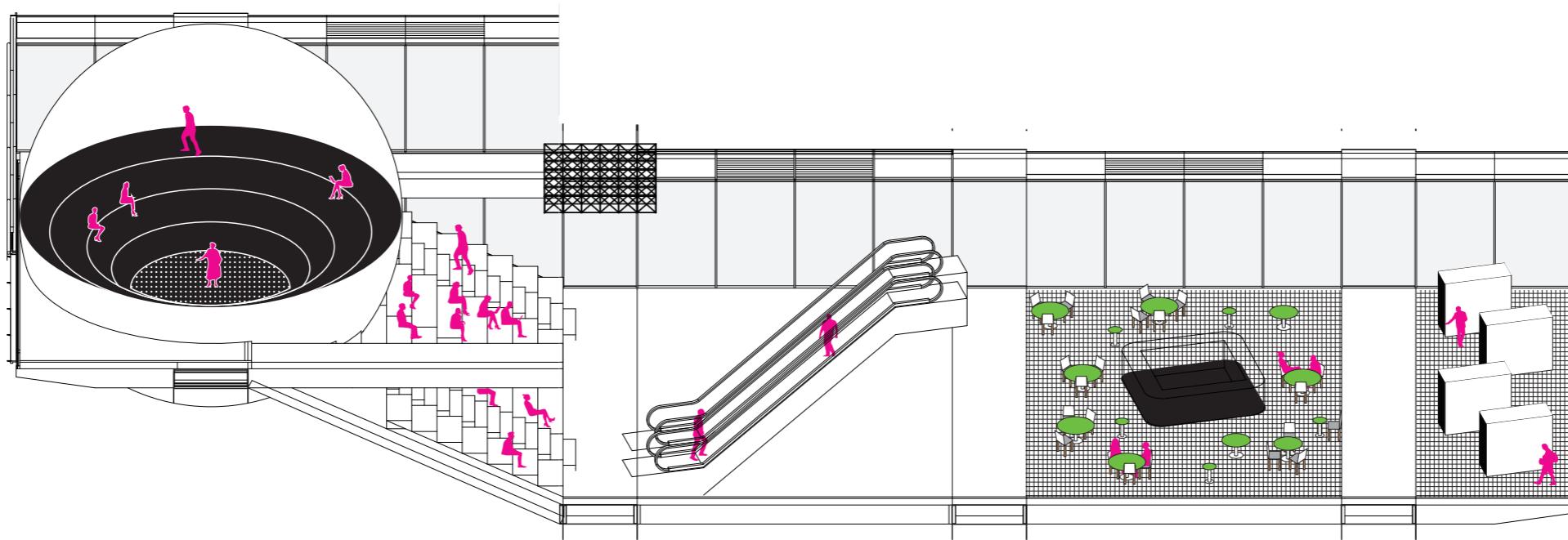
working principle plugin building

elevation NW façade

5   2   2   1
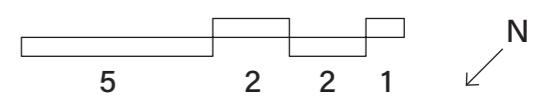
model photo

traversing the building
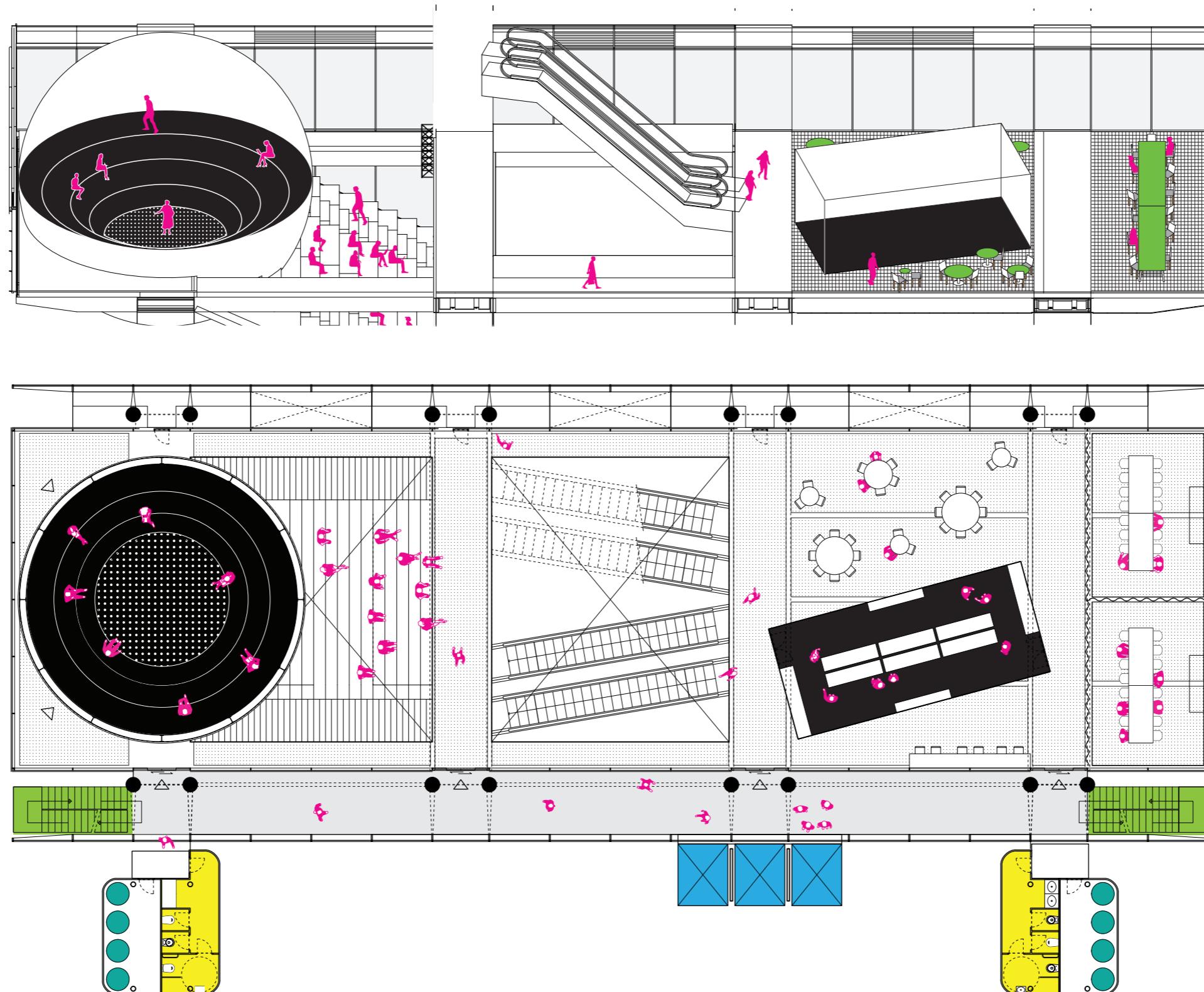
1st floor - living room | 550 m²

focus sphere, sitting stairs, entrance, coffee/cafetaria, exhibition

5 2 2 1

N
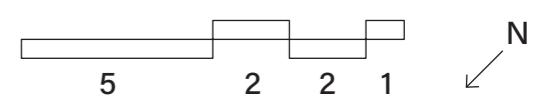
impression of sphere interior
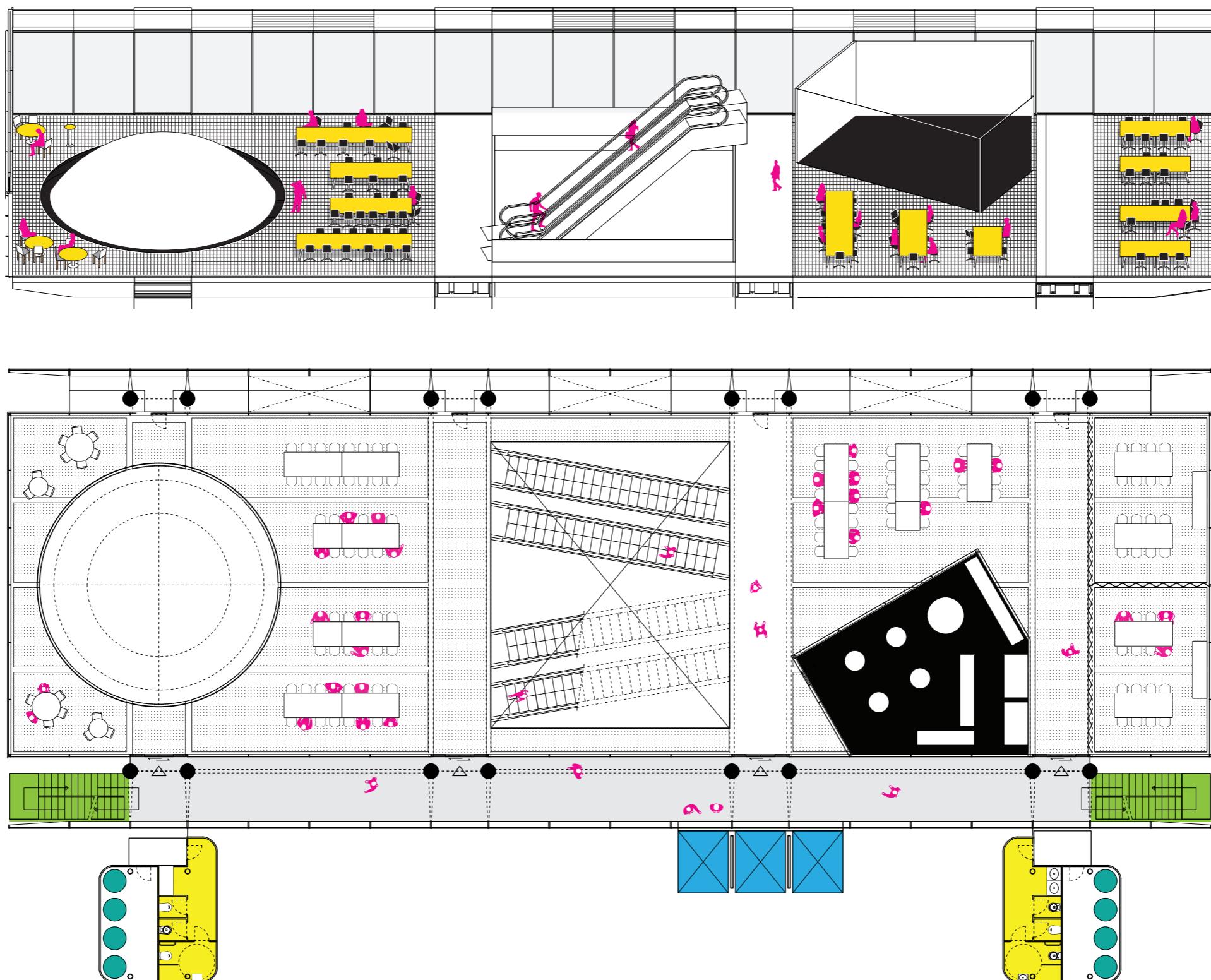
2nd floor - kitchen | 450 m²
focus sphere, shared kitchen, eating facilities

5   2   2   1

N
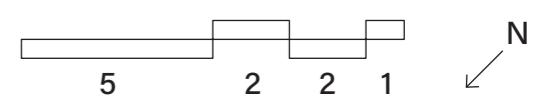
communal kitchen

3rd floor - study+create+work | 500 m²
co-working spaces, woodworking, study tables, workshop spaces

5   2   2   1

N
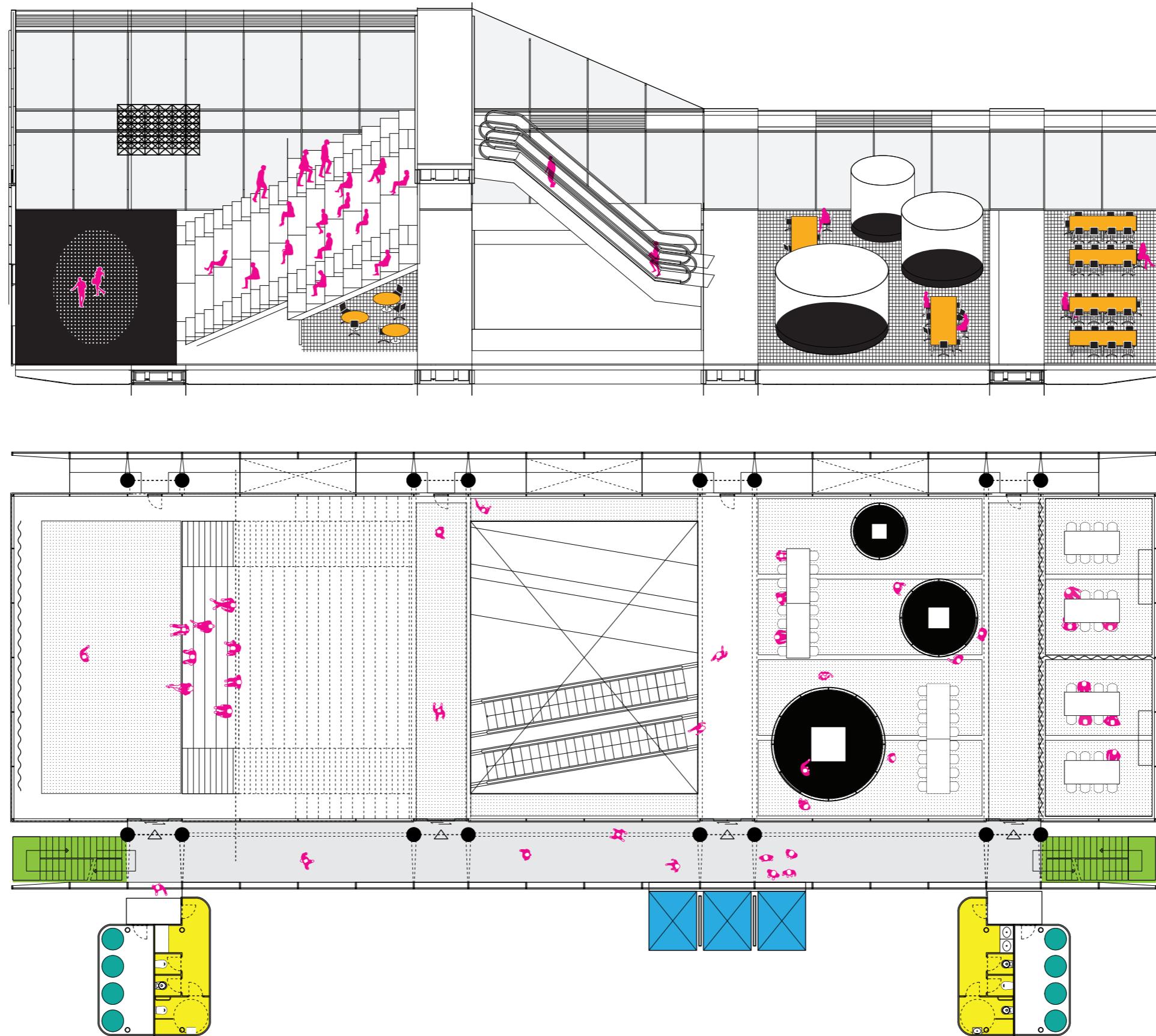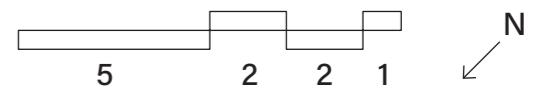
study spaces and woodworking workshop

co-working spaces
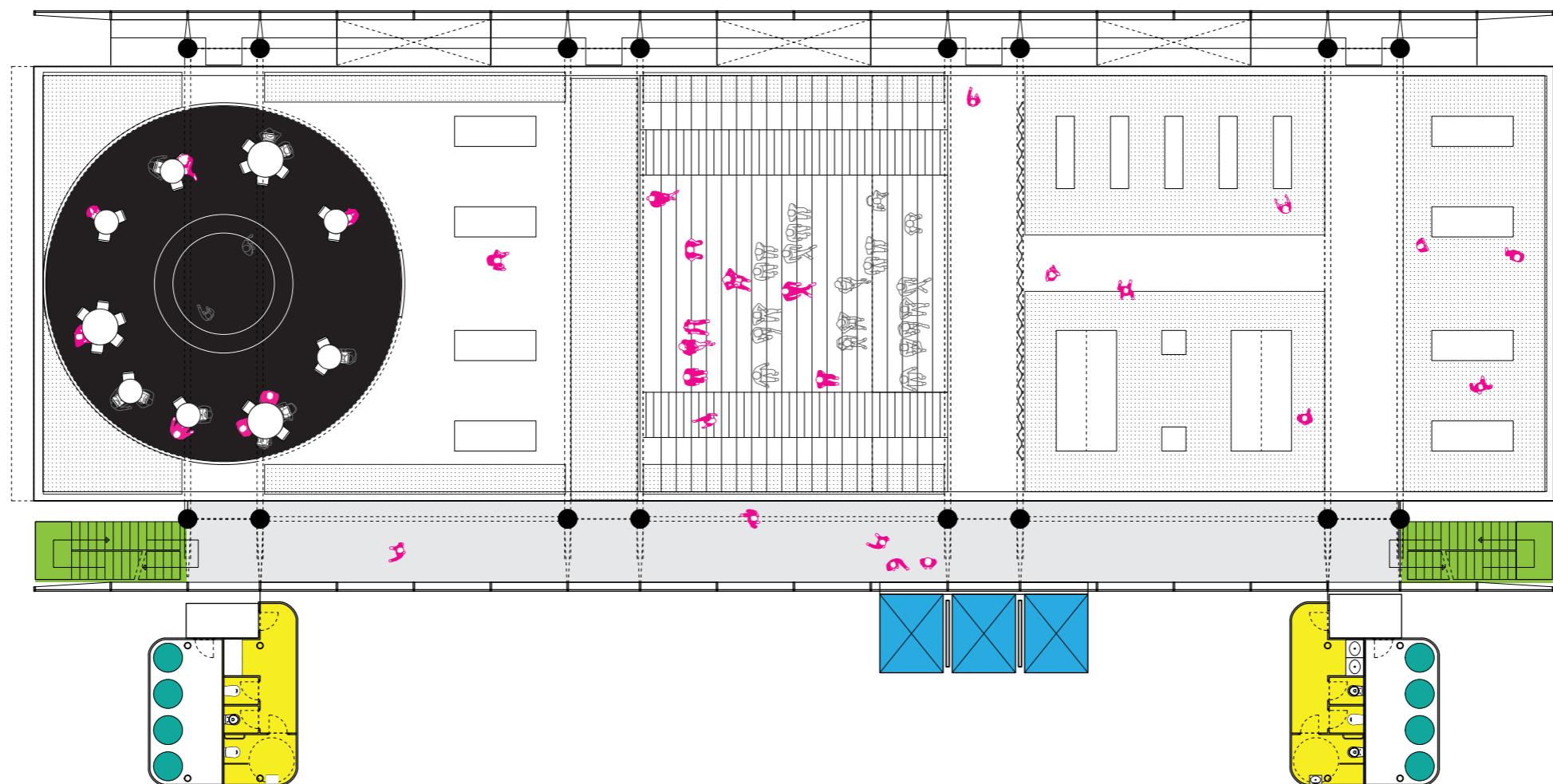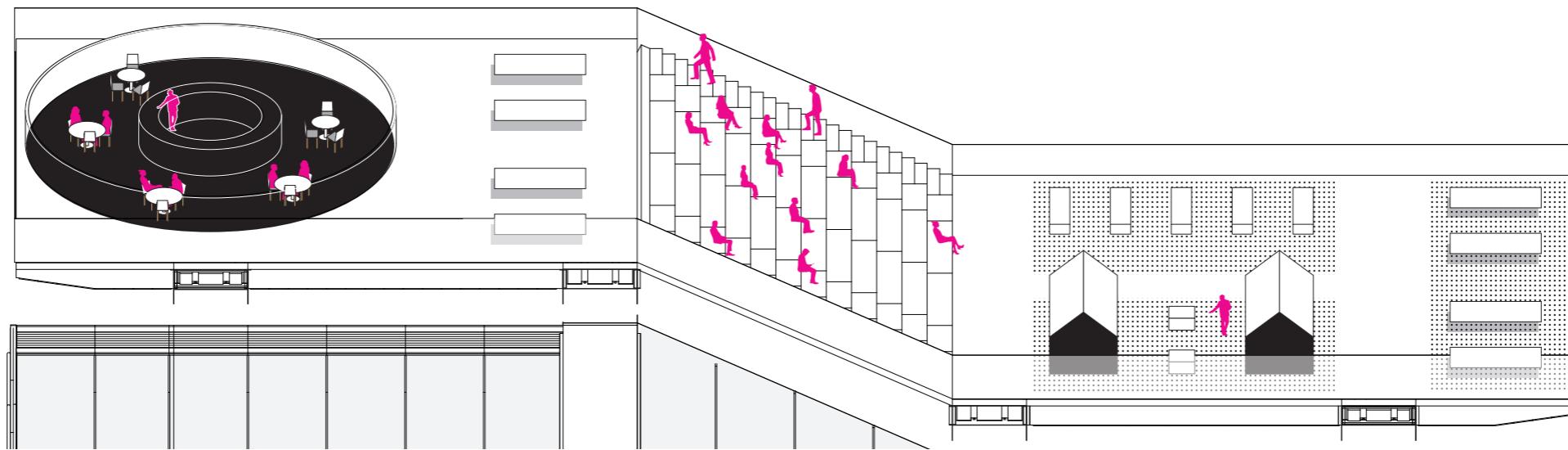
4th floor - study+create+enjoy | 580 m²

auditorium, lounge+storage, sculting, study tables, workshop spaces

5   2   2   1

N
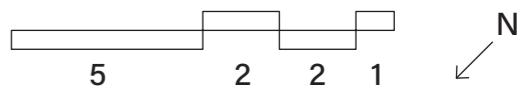
atrium
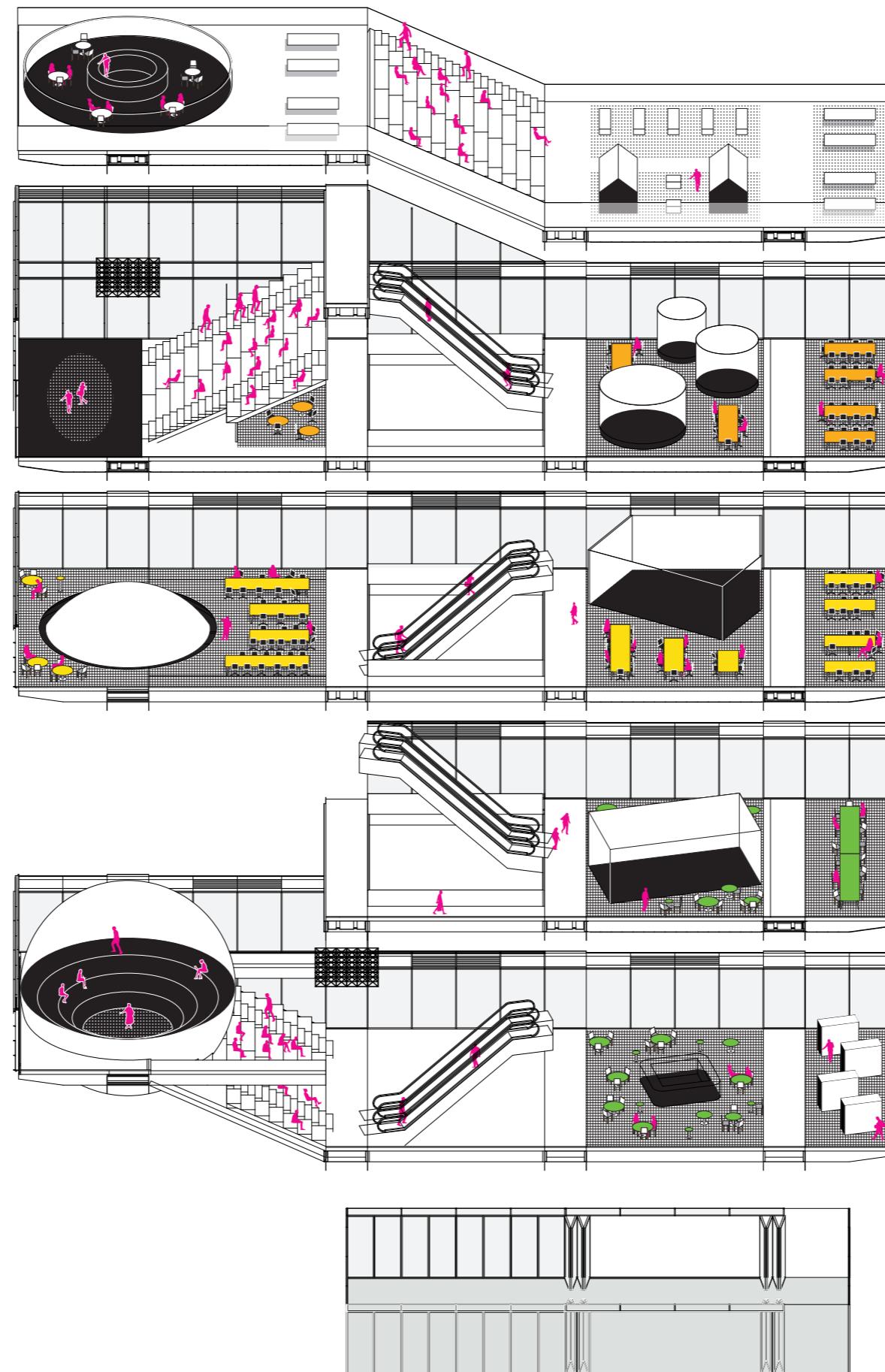
5th + 6th floor - roof+gardening | 910 m^2

rooftop bar, outdoor cinema, greenhouses, compost, insect hotels

5   2   2   1

N

roof cinema

total interior

thank you!