

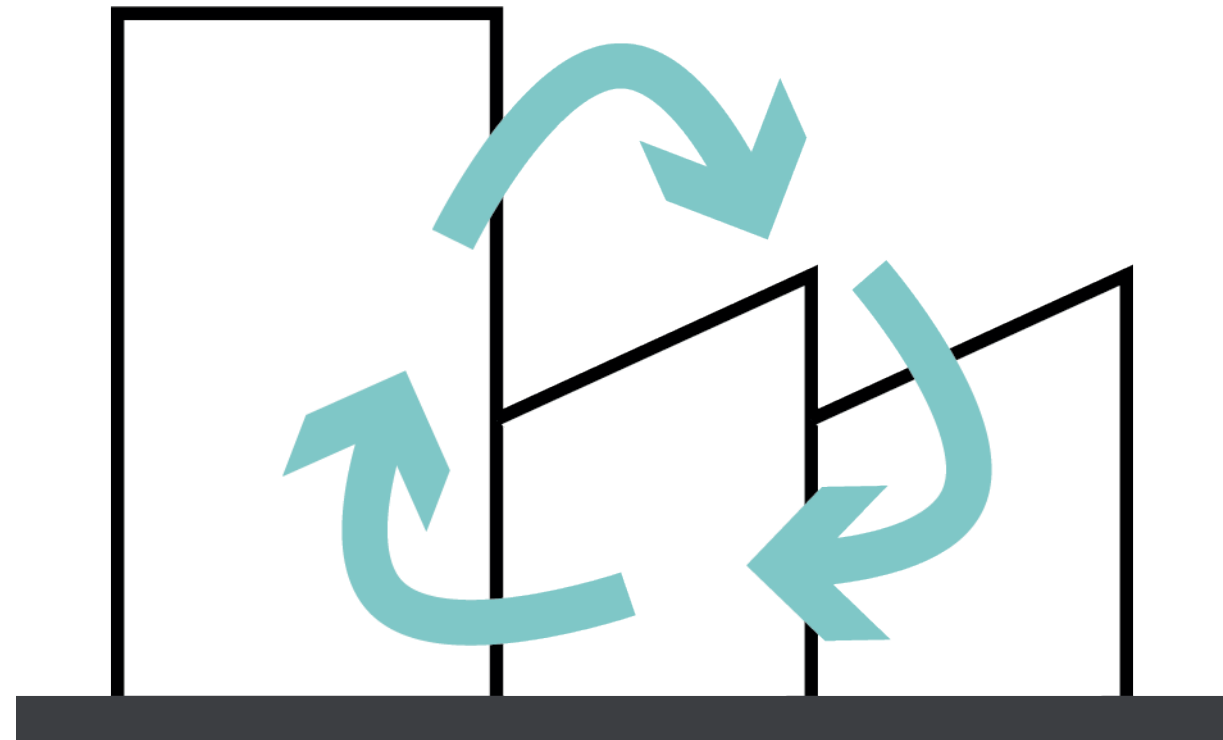
LAYERING OF TIME IN THE POLICE HEADQUARTERS IN ROTTERDAM

12-01-2023

P5 LISELOTTE KLERK 4398467



AR3AH105 GRADUATION STUDIO ADAPTING
20TH CENTURY HERITAGE
VACANT HERITAGE
POLITIE - BOUWMEESTER

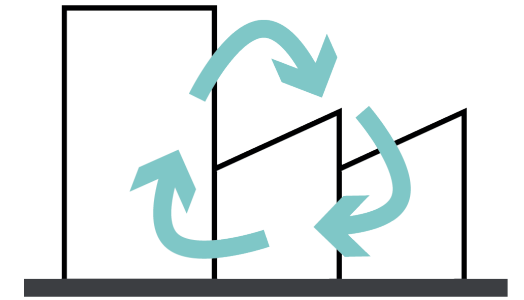


REAL ESTATE CHALLENGE

WHAT TO DO WITH THESE BUILDINGS?

PROBLEM STATEMENT

HOUSING SHORTAGE
MAKING A COMMUNITY



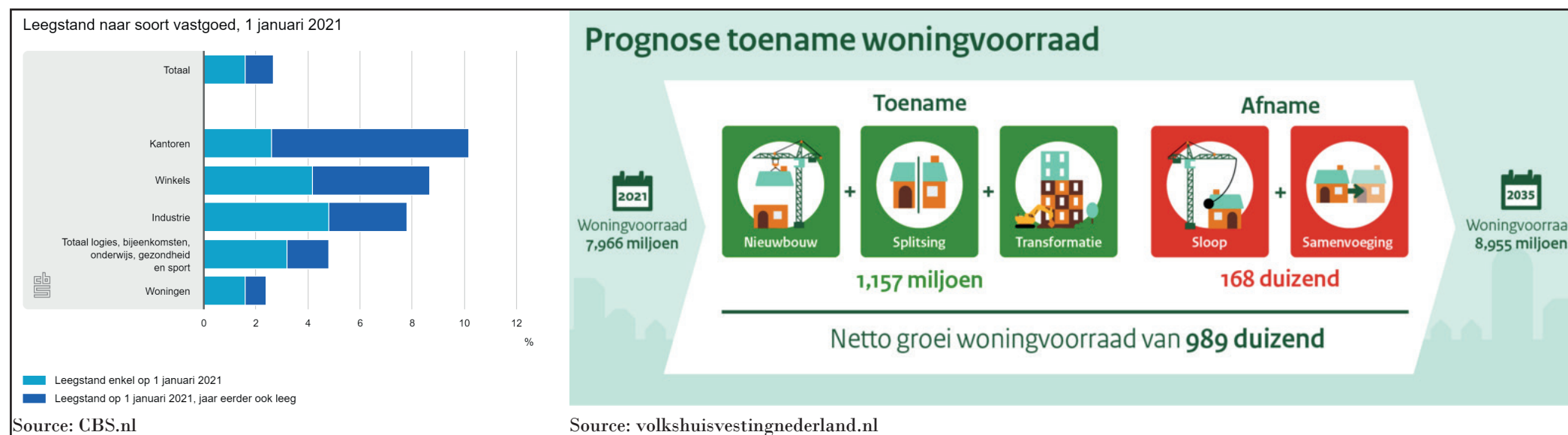
NEED FOR AFFORDABLE HOUSING

SOCIAL INTERACTION IN THE CITY
--> MAKING A COMMUNITY

ROTTERDAM BEING A SOCIAL ORIENTATED CITY
--> GOOD LOCATION COLLECTIVE HOUSING PROJECT

USE VACANT BUILDINGS
--> TRANSFORMATION

VALUES CURRENT BUILDING



BUILDING CHOICE

PERSONAL FASCINATION
AMOUNT OF SQUARE METERS
LOCATION



Photo: Lidy Meijers



Photo: Lidy Meijers

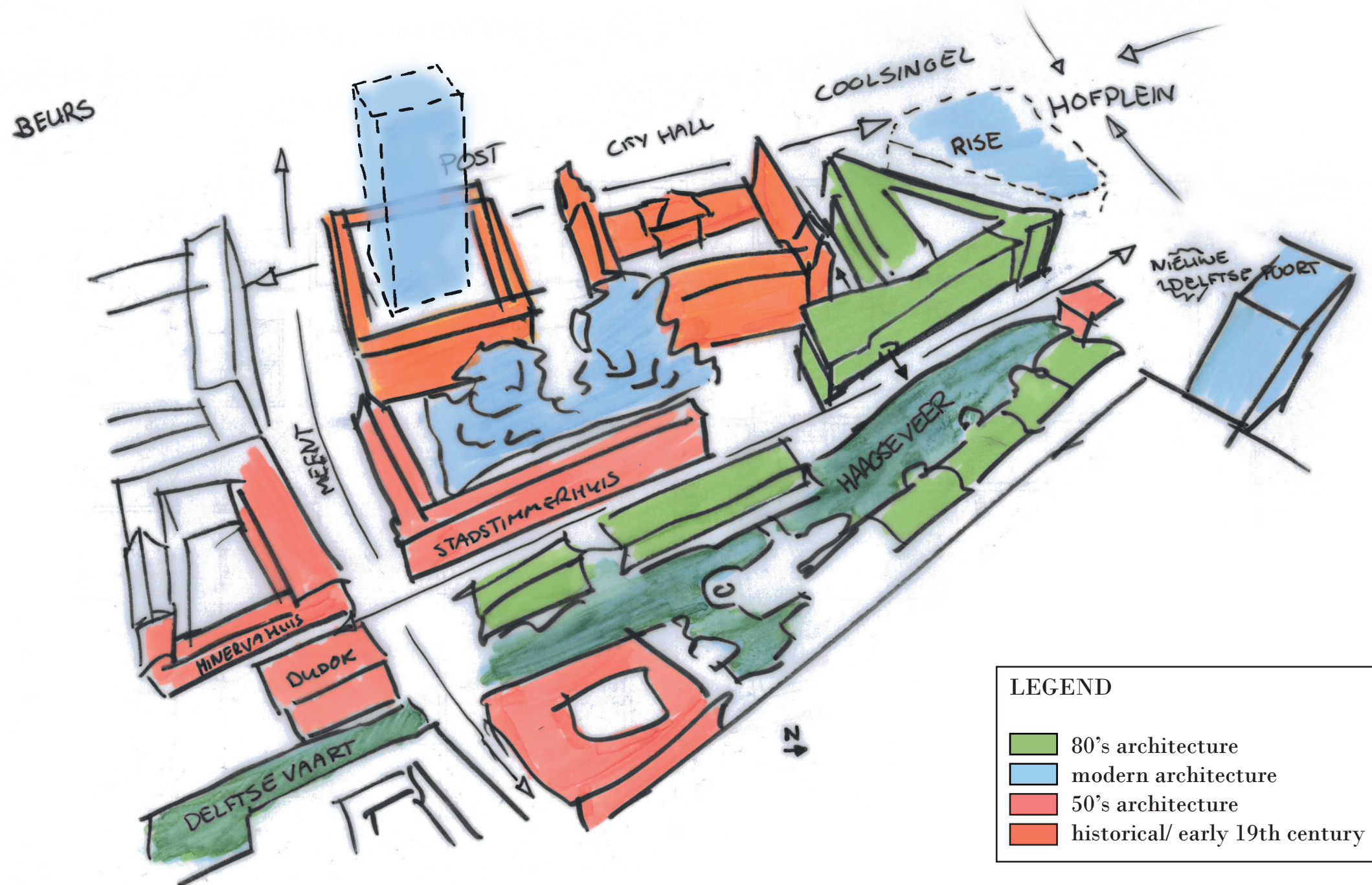
CONTEXT

LOCATION



CONTEXT

CITY IS (CONSTANTLY) CHANGING



HISTORY OF THE CITY

MAY 14TH, 1940



Source: stadsarchief.rotterdam.nl

(HISTORICAL) DEVELOPMENT



Source: stadsarchief.rotterdam.nl



1800

SCHUTTERSDOELEN

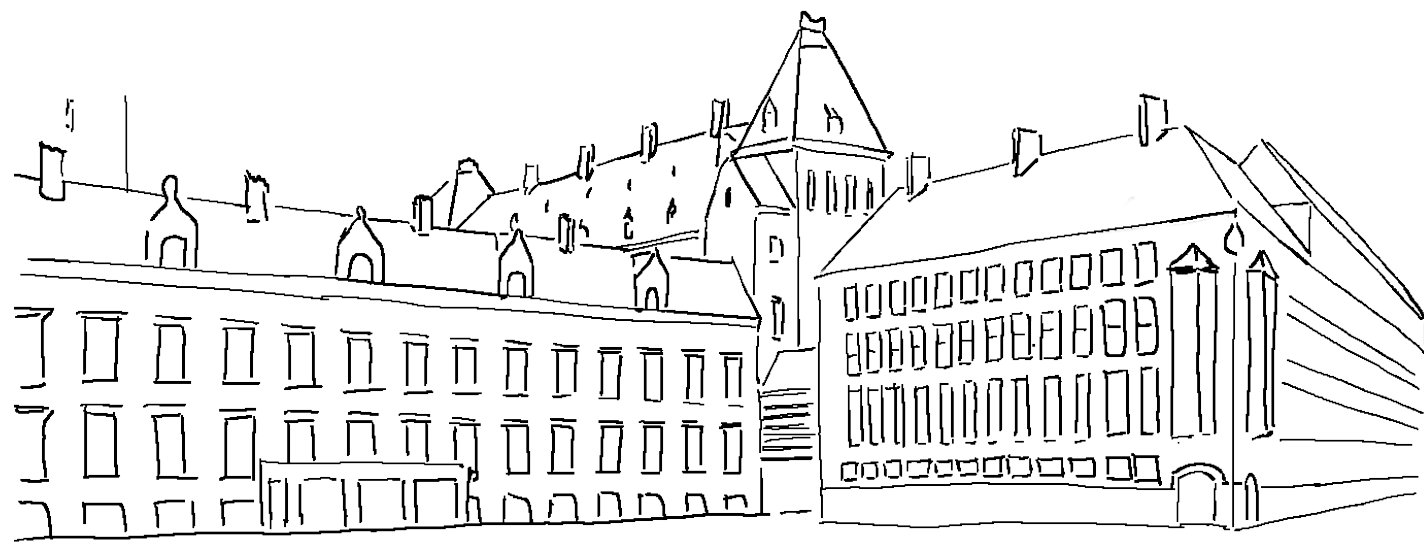
1904

POLICE TO THE HAAGSEVEER

1865

PALACE OF JUSTICE

(HISTORICAL) DEVELOPMENT



1939



1993

(FUTURE) DEVELOPMENT SURROUNDINGS



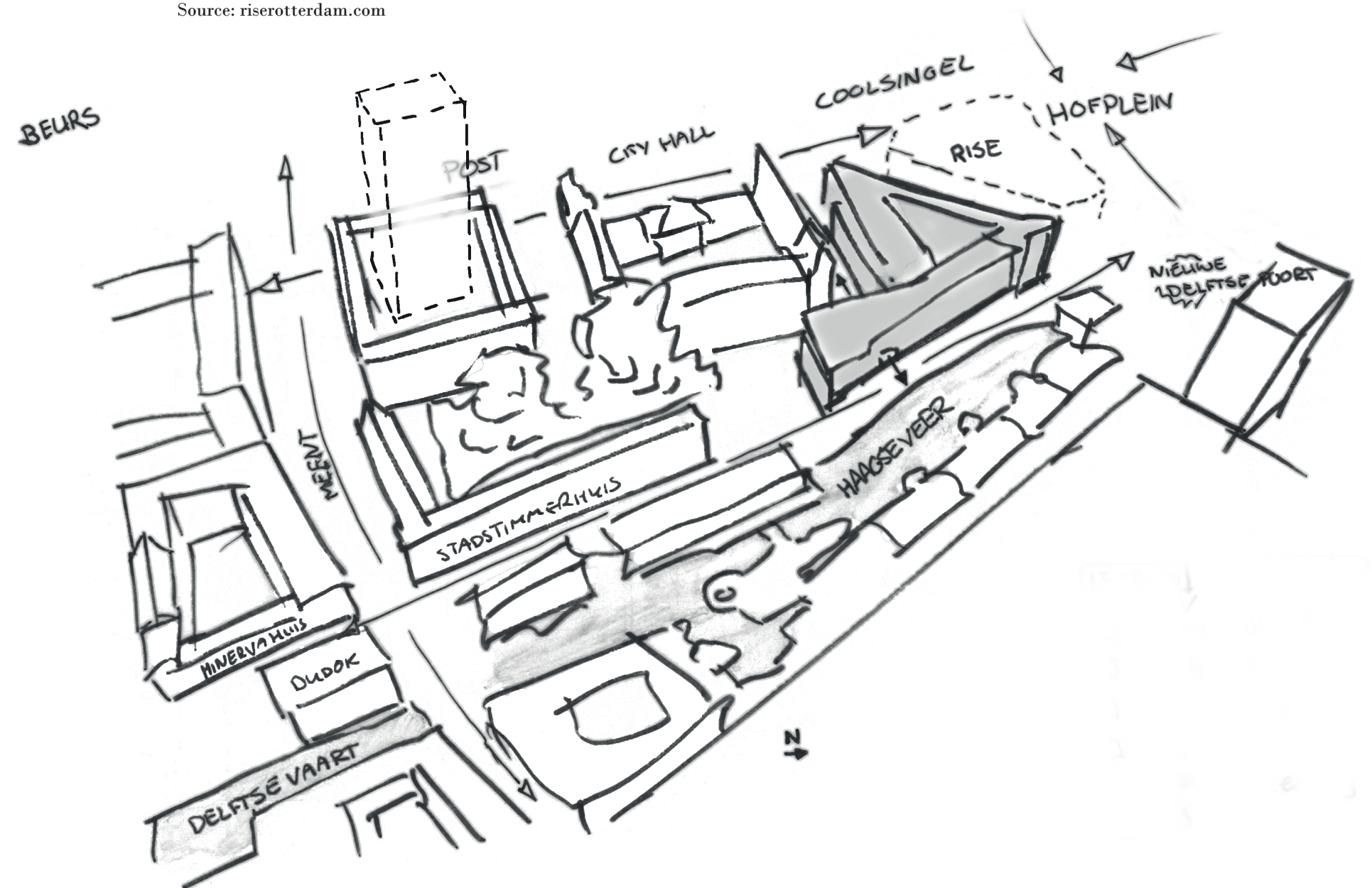
Source: postrotterdam.nl



Source: riserotterdam.com

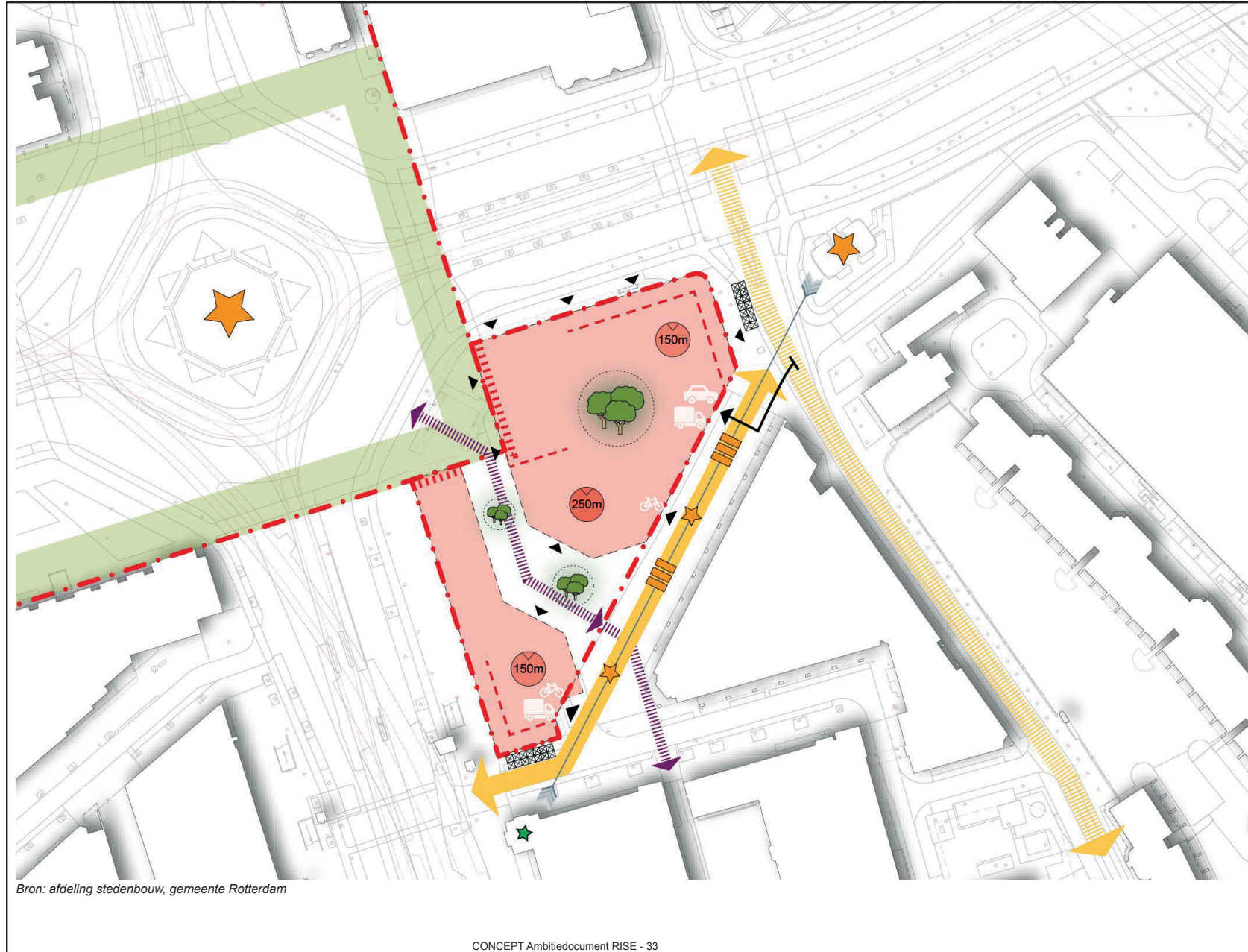


Source: Hofplein, publieksbrochure

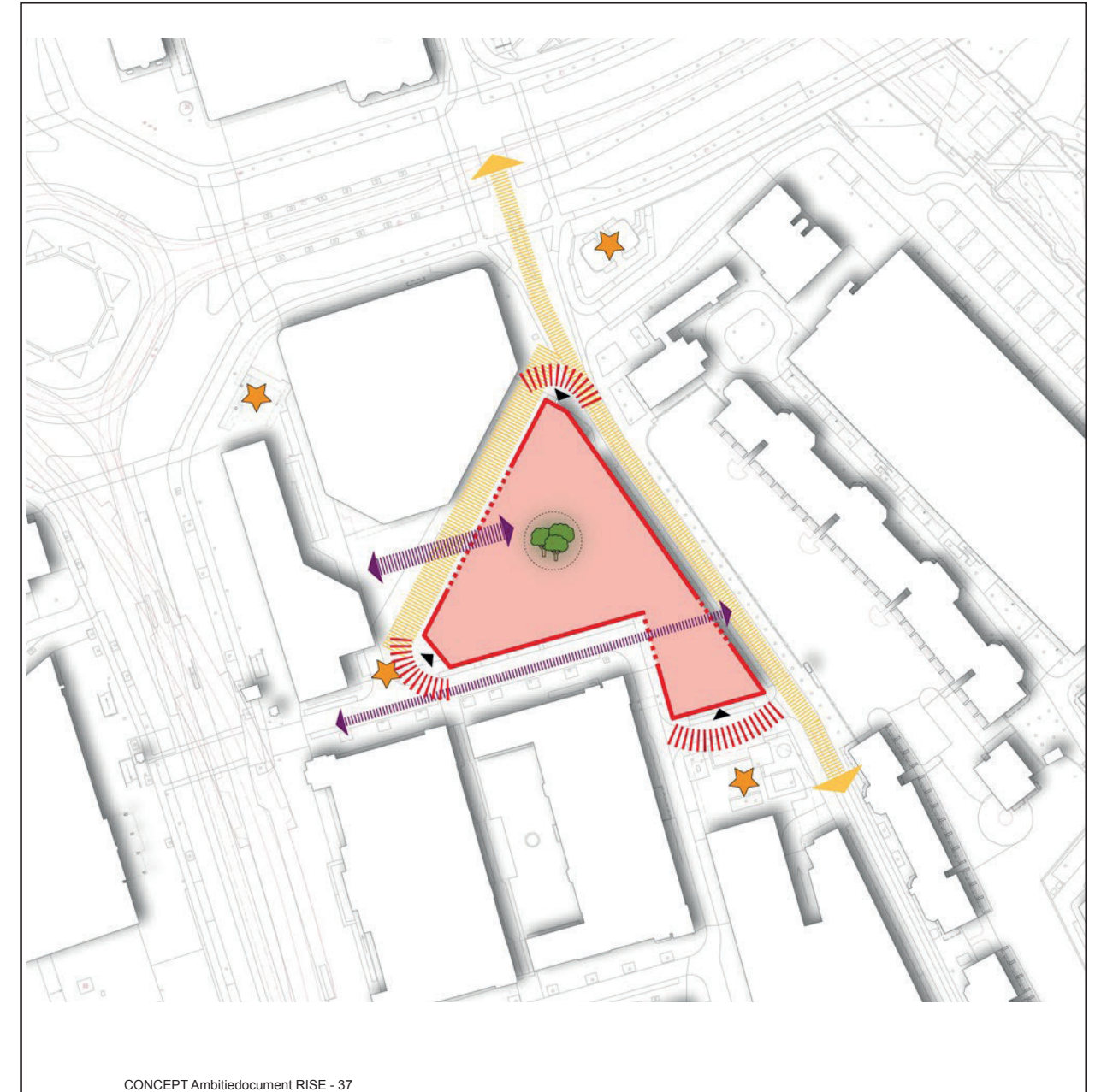


RISE

AMBITION DESIGN GUIDLINES



Source: Ambitiedocument RISE Centrum-Lijnbaankwartier (8-10-2020)



RESEARCH

LAYERING OF TIME

“each intervention adds a new ‘layer’ of history to the building” (Meurs, 2016, p. 36).

This ‘layer’ is a concept worth elaborating on since it is used often in architectural literature.

A value that manifests itself, for example, in the patina (the traces of time). (Meurs, 2016, p. 36)

each narrative adds a new ‘layer’ of history/ memory to the building

How does the layering of time expresses itself in the facades of the police headquarters in Rotterdam, and how does it influence the perception of the building?

tangible --> physical building intangible --> narratives/ atmosphere

layering of time used as a tool to develop a collective housing project

DESIGN GUIDELINES

VALUATION FROM RESEARCH

tangible layering of time

- fitting in surroundings - architectural **concept** van der Steur and Struijs
- **proportions facade** of building part Haagseveer
- perception of police in its time visible in facades
- radiation of post-war ideas of the city (need for simplification)

intangible layering of time

- architecture that serves the public - concept Struijs
- narratives during WWII
 - > relate to police at this location
- jumping rope girl
 - > collective memory, relating to visibility of art in the city

aesthetical, conceptual
aesthetical, conceptual
aesthetical, conceptual
aesthetical, conceptual

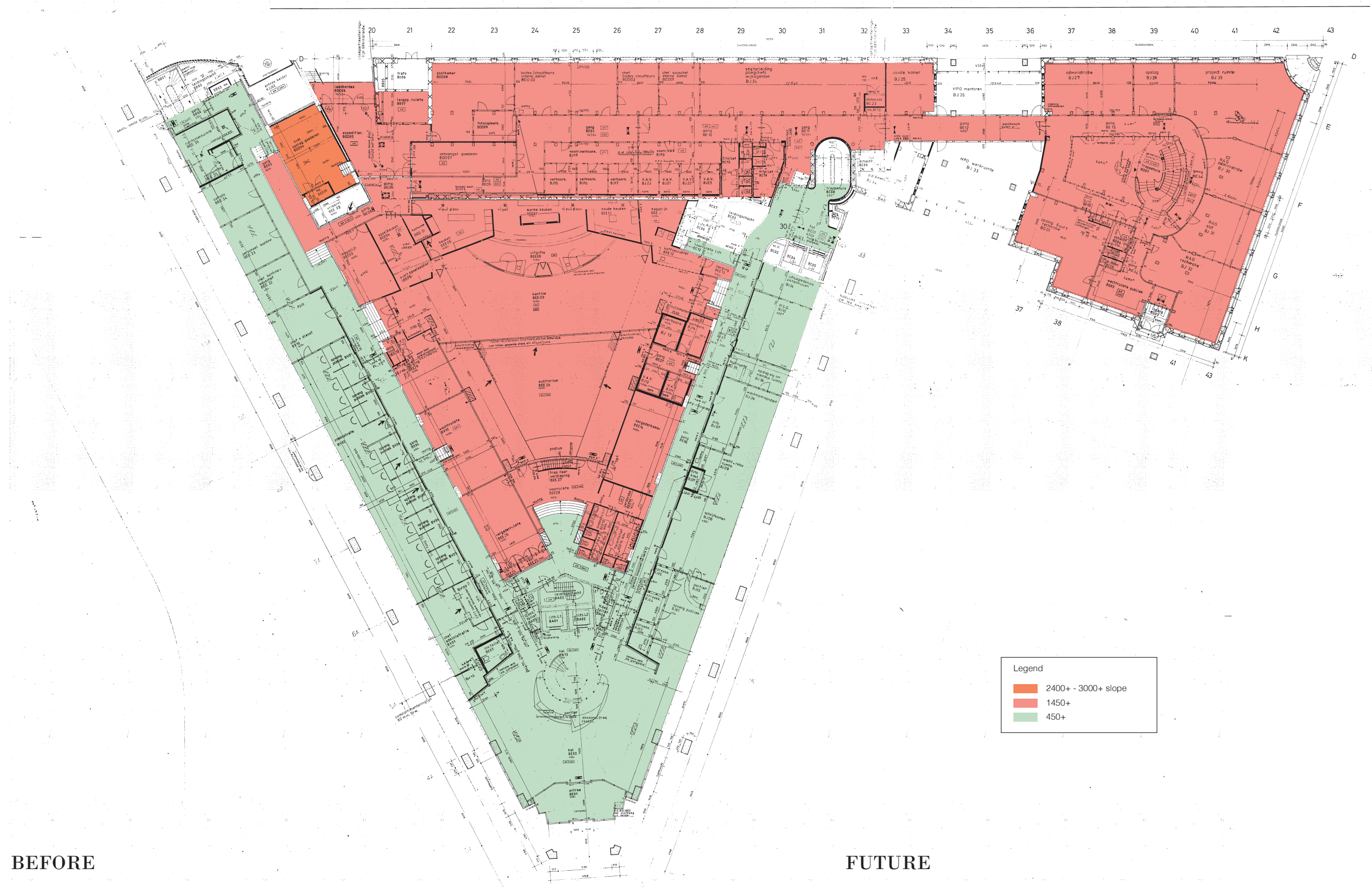
aesthetical, conceptual
social, emotional (collective and individual)

social, emotional (collective)



ANALYSES

HIGHT DIFFERENCE GROUND FLOOR



TK ARCHITECT
DANS PROJET
PORT 330
No. 399

BEFORE

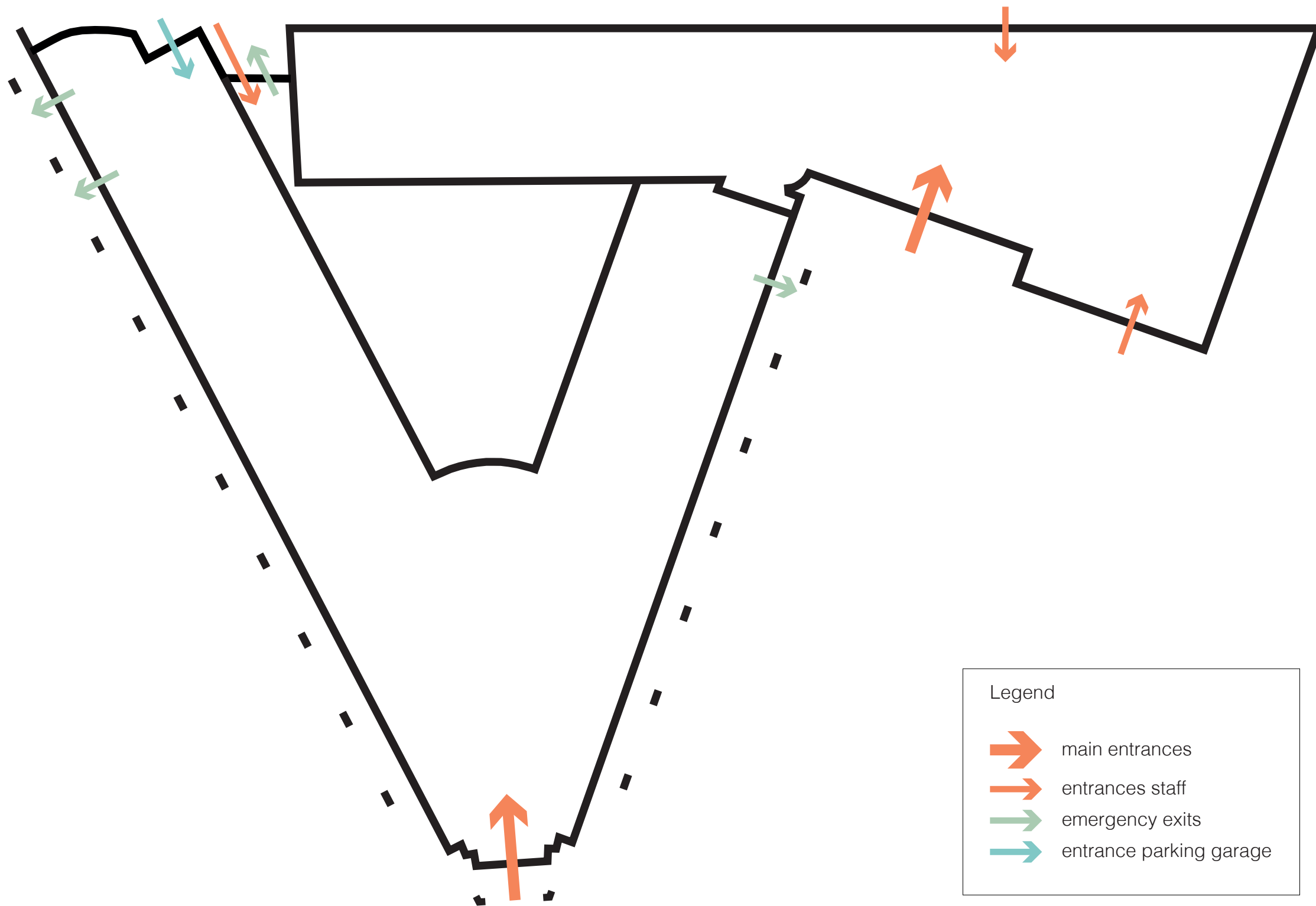
FUTURE

NOW



ANALYSES

ROUTING



BEFORE

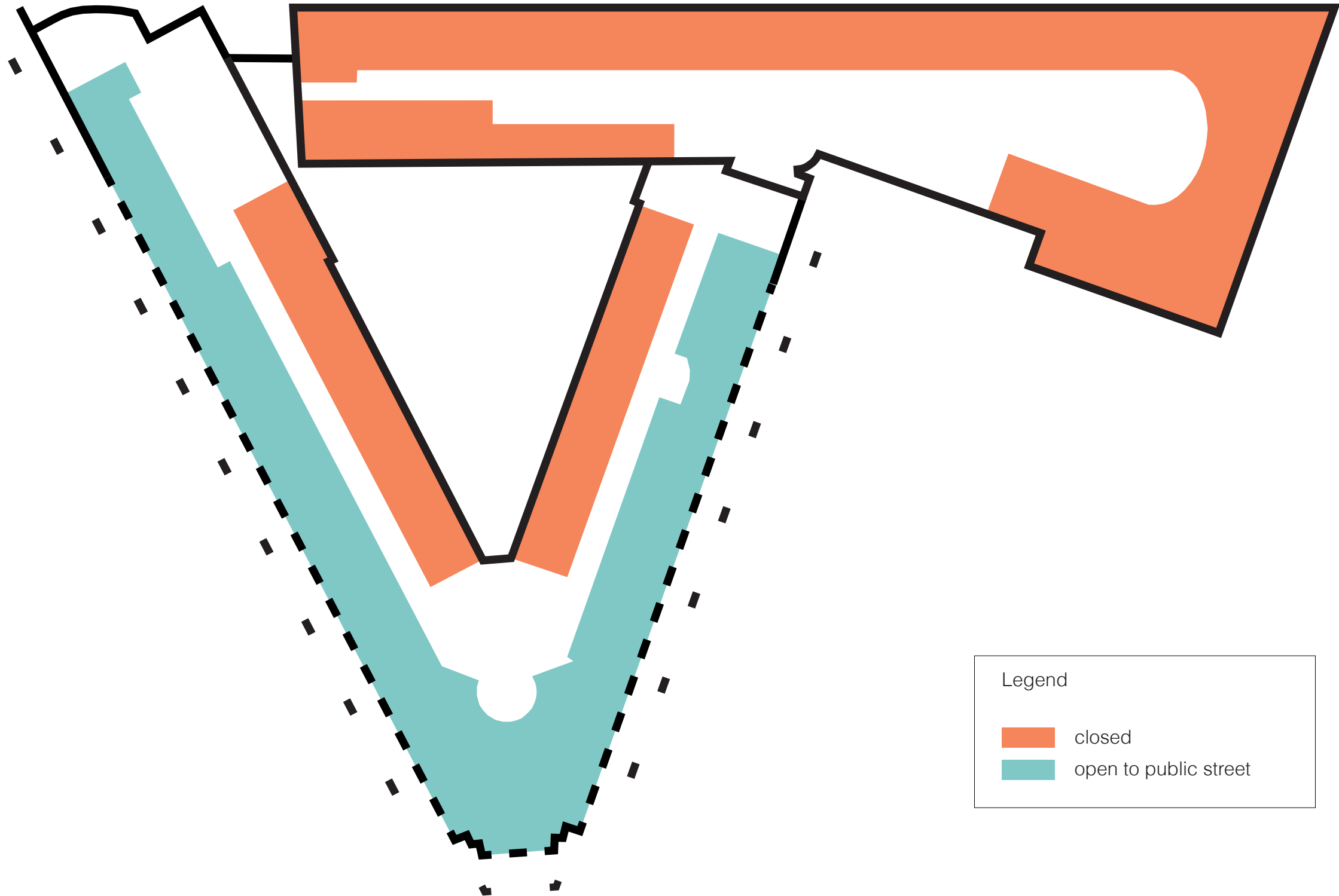
FUTURE

NOW



ANALYSES

ROUTING



BEFORE

FUTURE

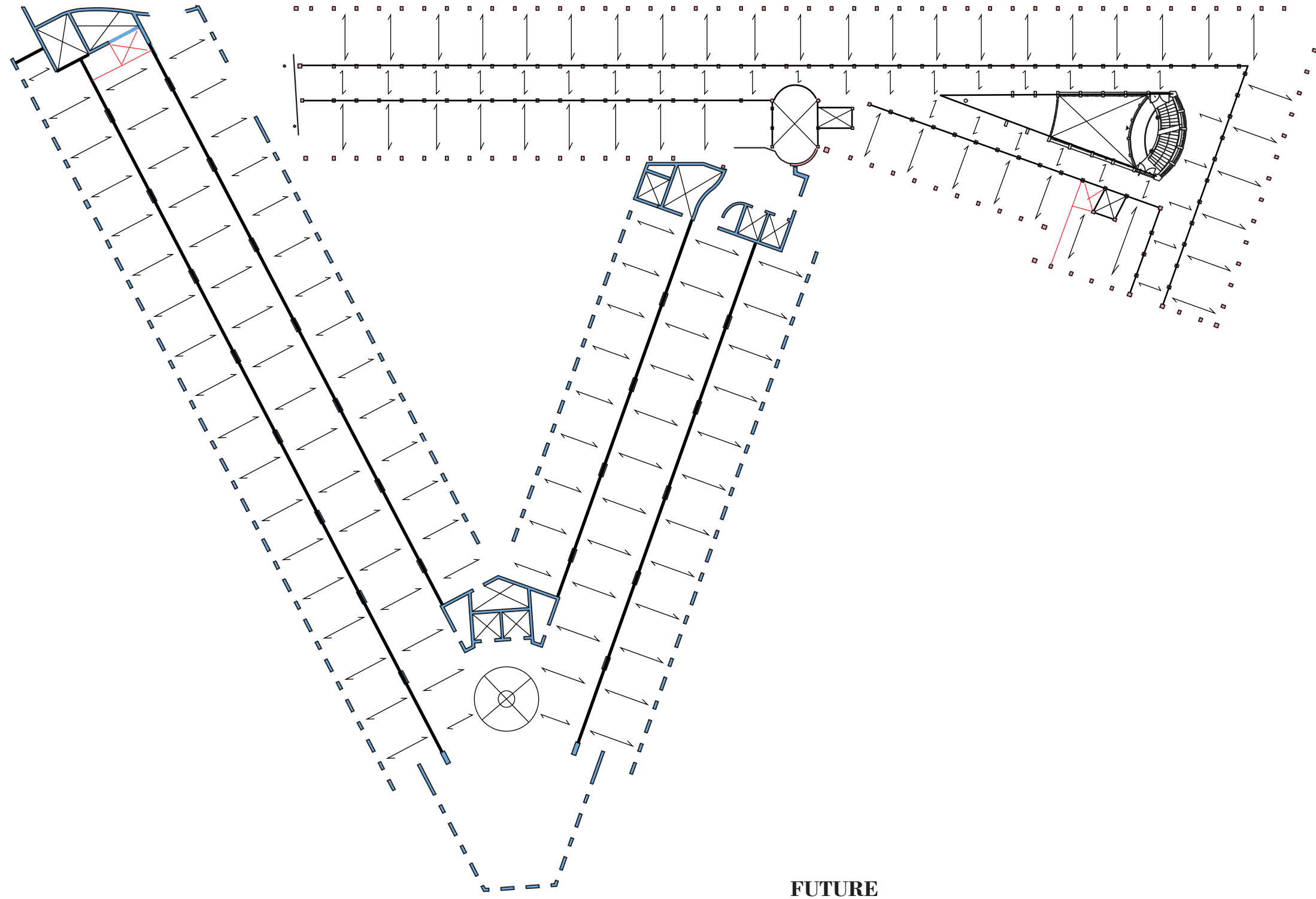
NOW



ANALYSES

CONSTRUCTION

COLUMN STRUCTURE ALLOWS FREEDOM IN LAYOUT



BEFORE

FUTURE

NOW

SECOND FLOOR 1:400 (GENERAL CONCEPT)



COLLECTIVE HOUSING PROJECT

ARCHITECTURE THAT SERVES THE PUBLIC

TOGETHER Project
The future
of living



Source: <https://nightingalehousing.org/>

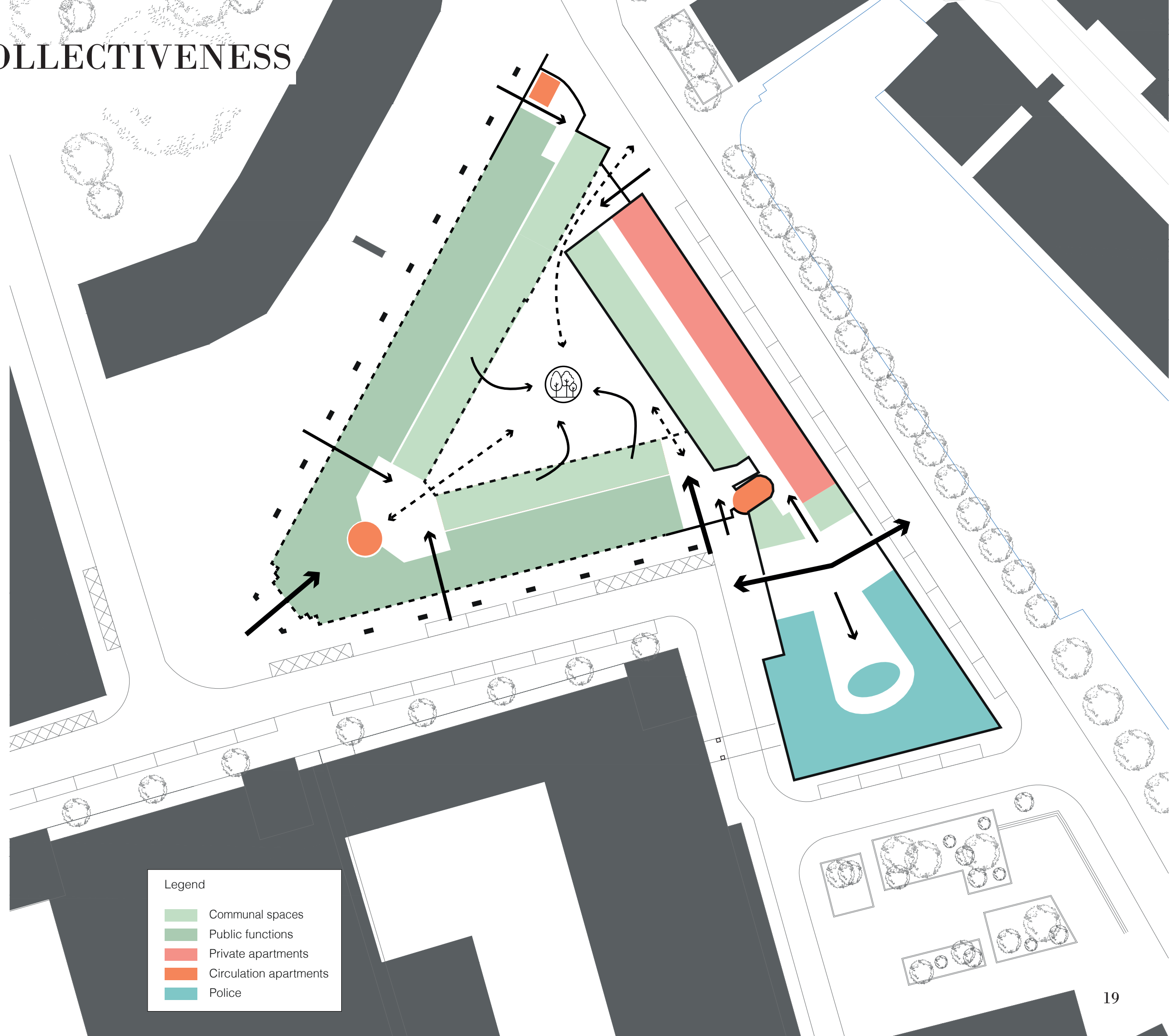
BEFORE

FUTURE

NOW

LAYERS OF COLLECTIVENESS

GENERAL IDEA



Legend

- Communal spaces
- Public functions
- Private apartments
- Circulation apartments
- Police



TARGET GROUPS

INTERACTION

ELDERLY

STARTERS

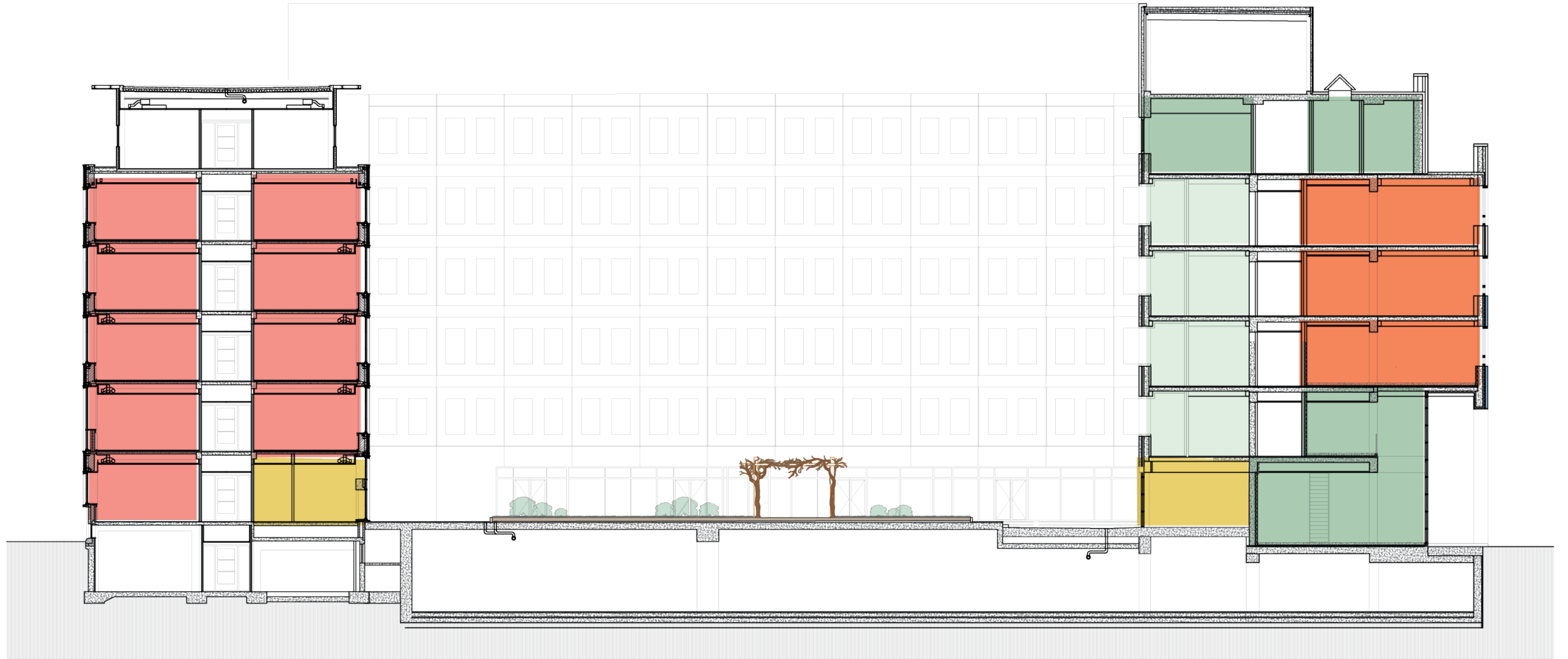
STUDENTS

FAMILIES

POLICE

WHO, WHERE

LIVING TOGETHER
SECTION A_A



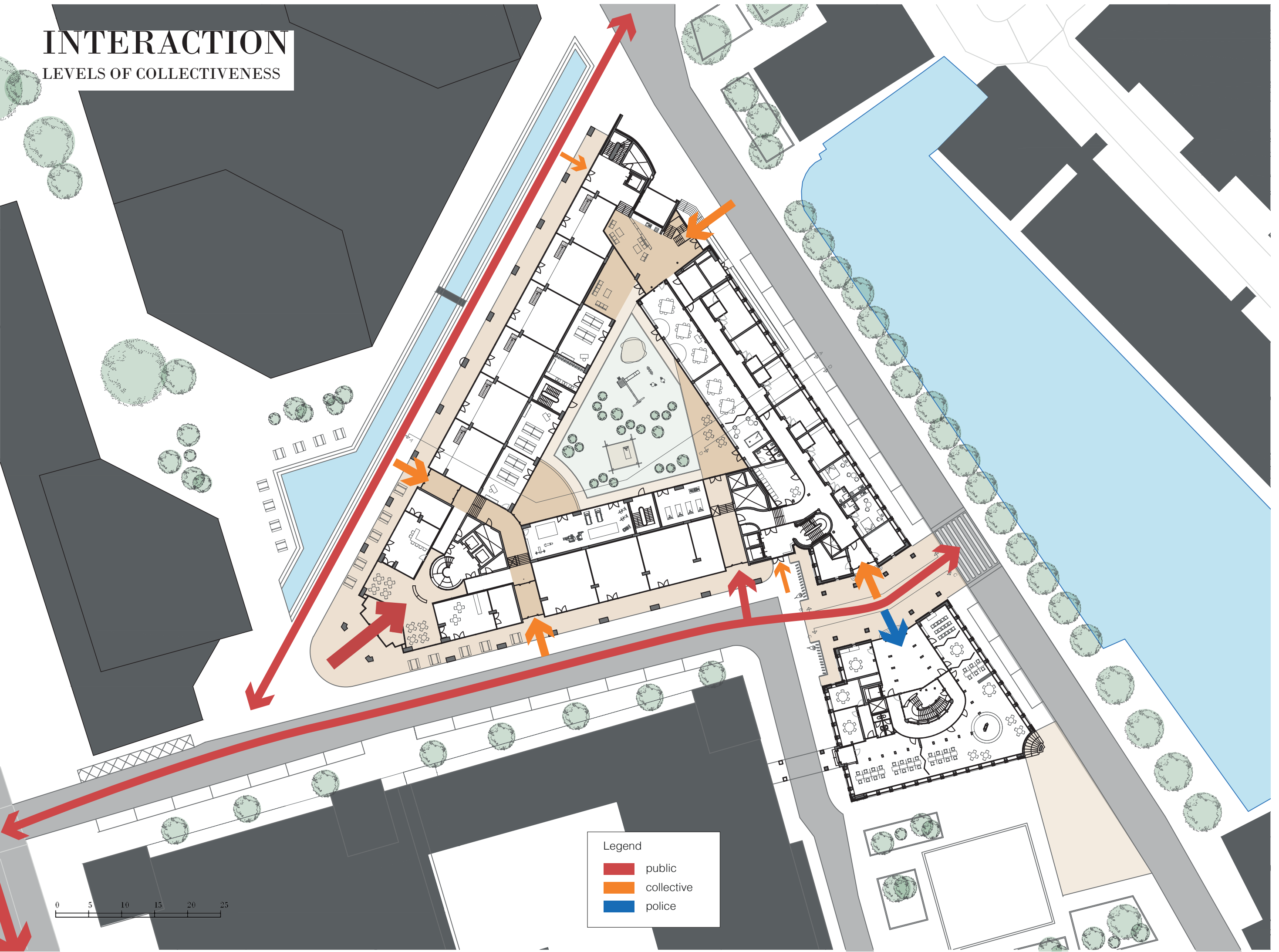
0 5 10 15 20

Legend

- Elderly apartments
- Starters apartments
- Student apartments
- Family apartments
- Communal spaces

INTERACTION

LEVELS OF COLLECTIVENESS



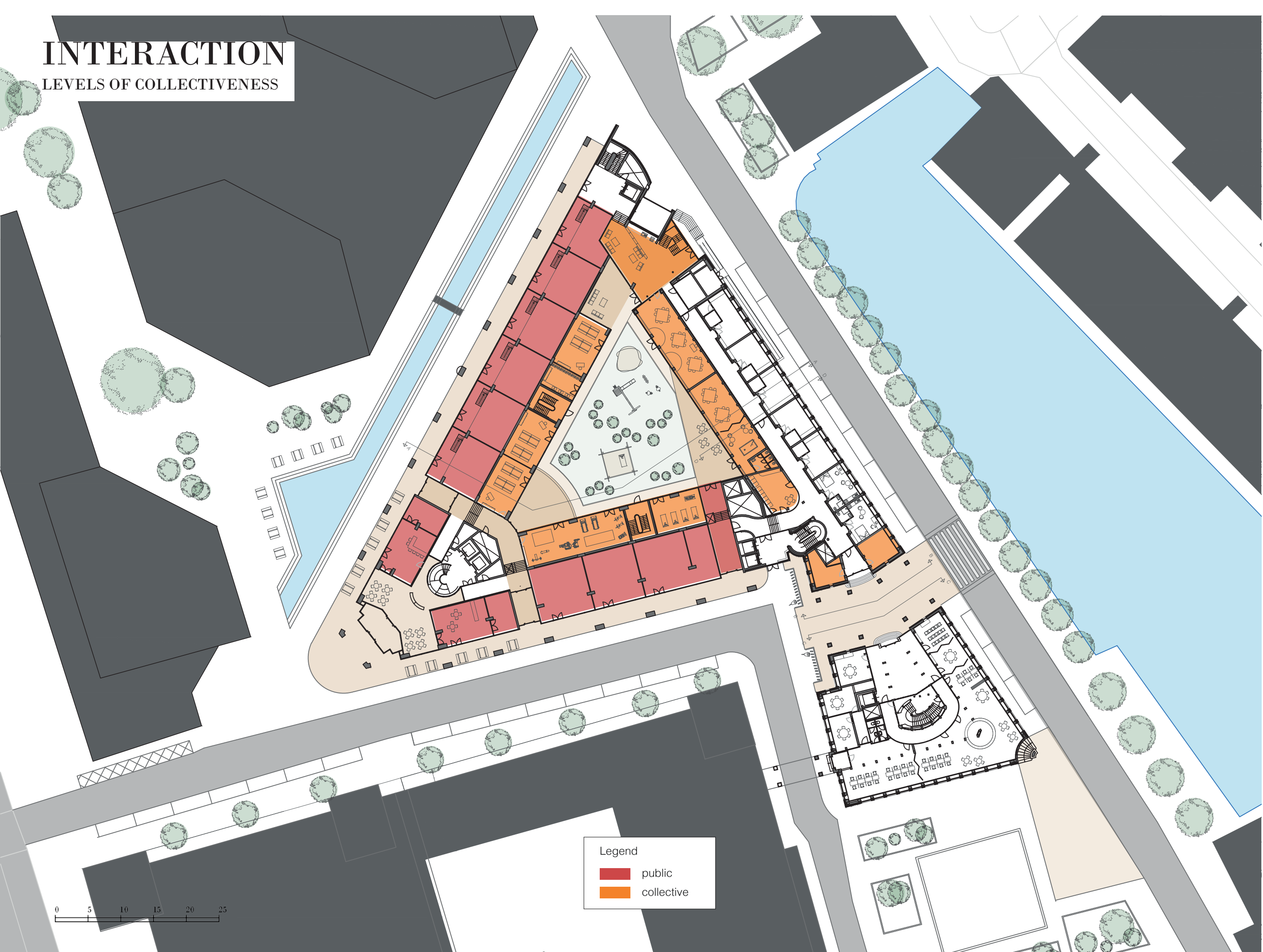
Legend

- public
- collective
- police



INTERACTION

LEVELS OF COLLECTIVENESS



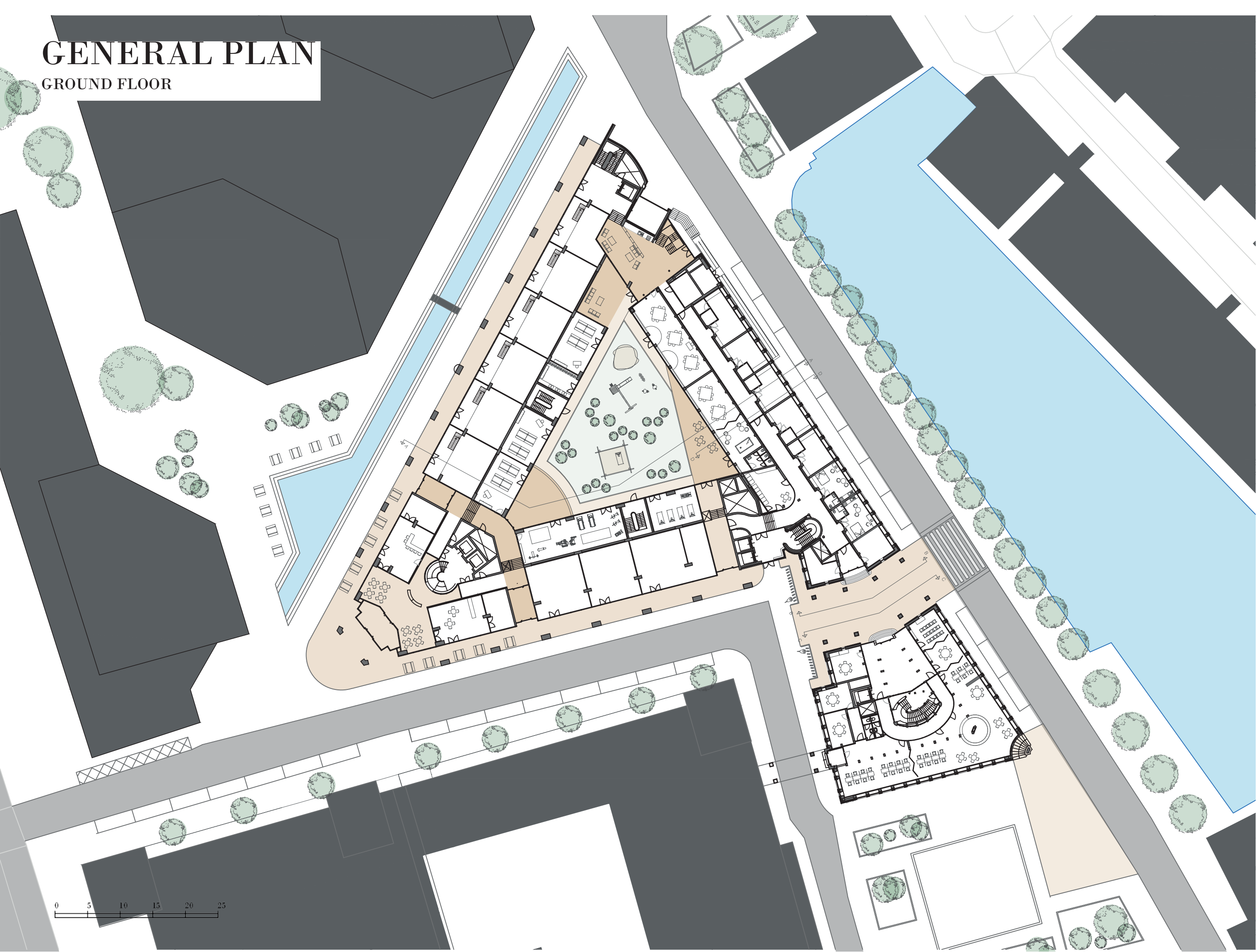
Legend

- public
- collective

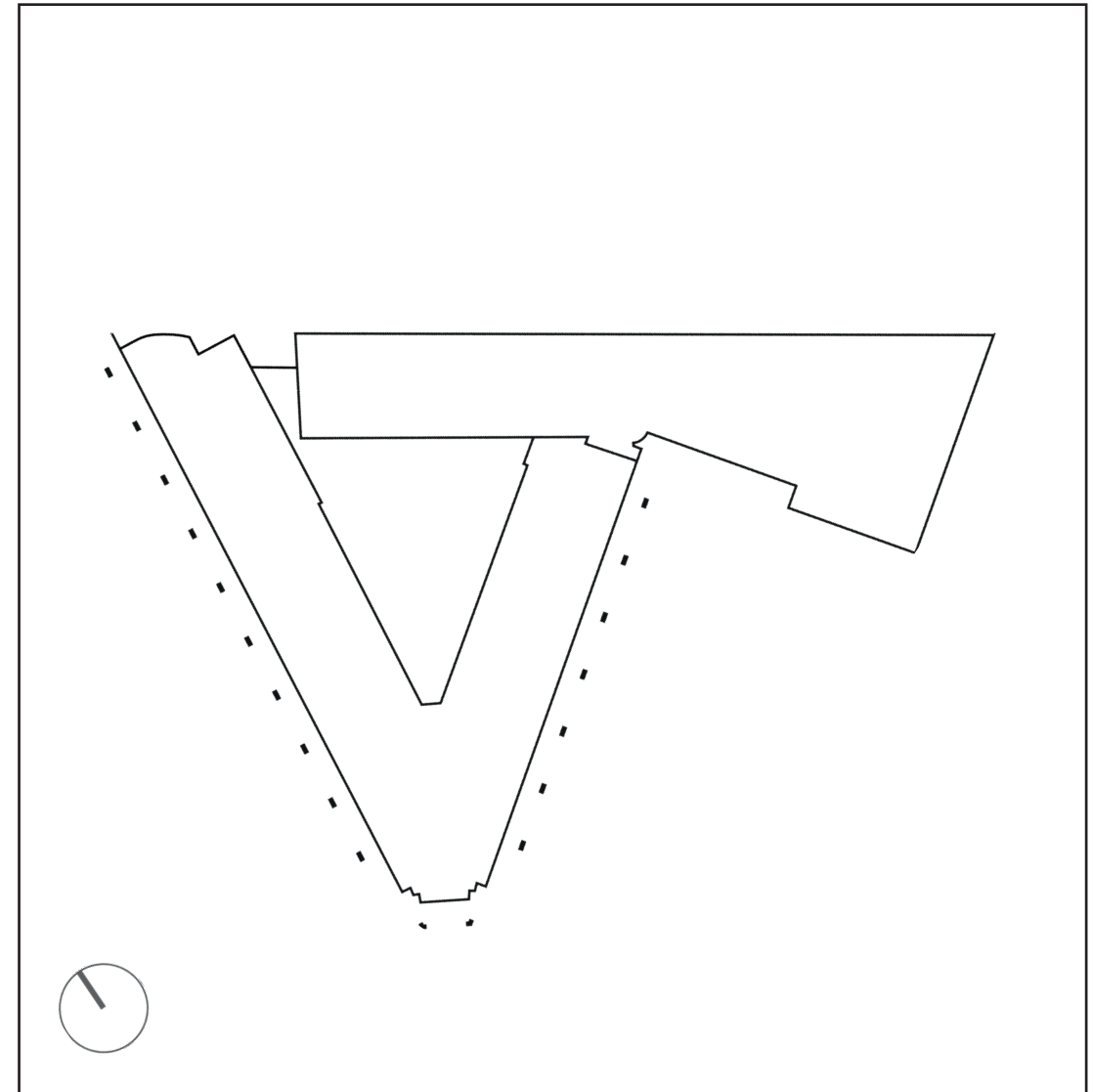
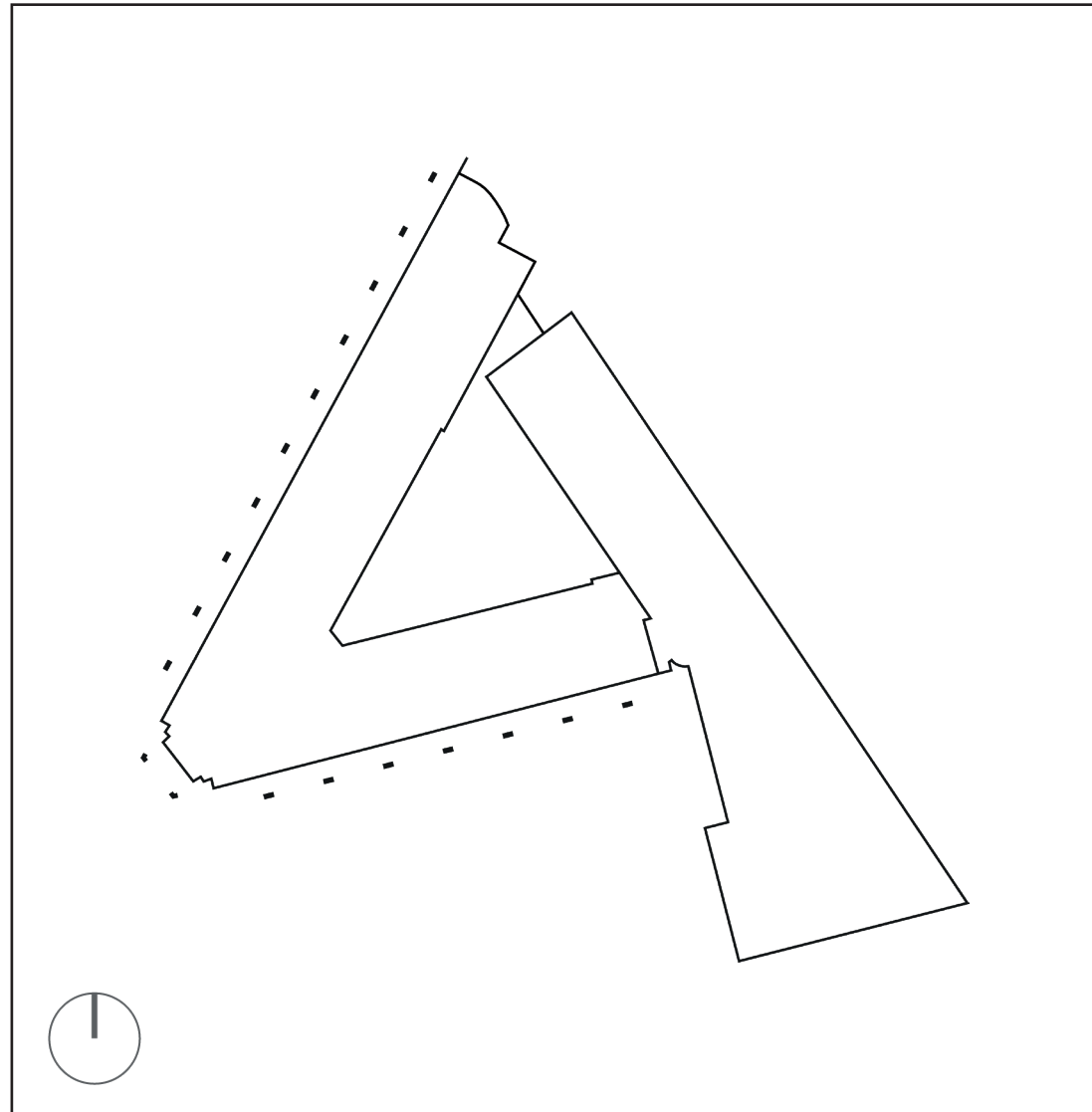


GENERAL PLAN

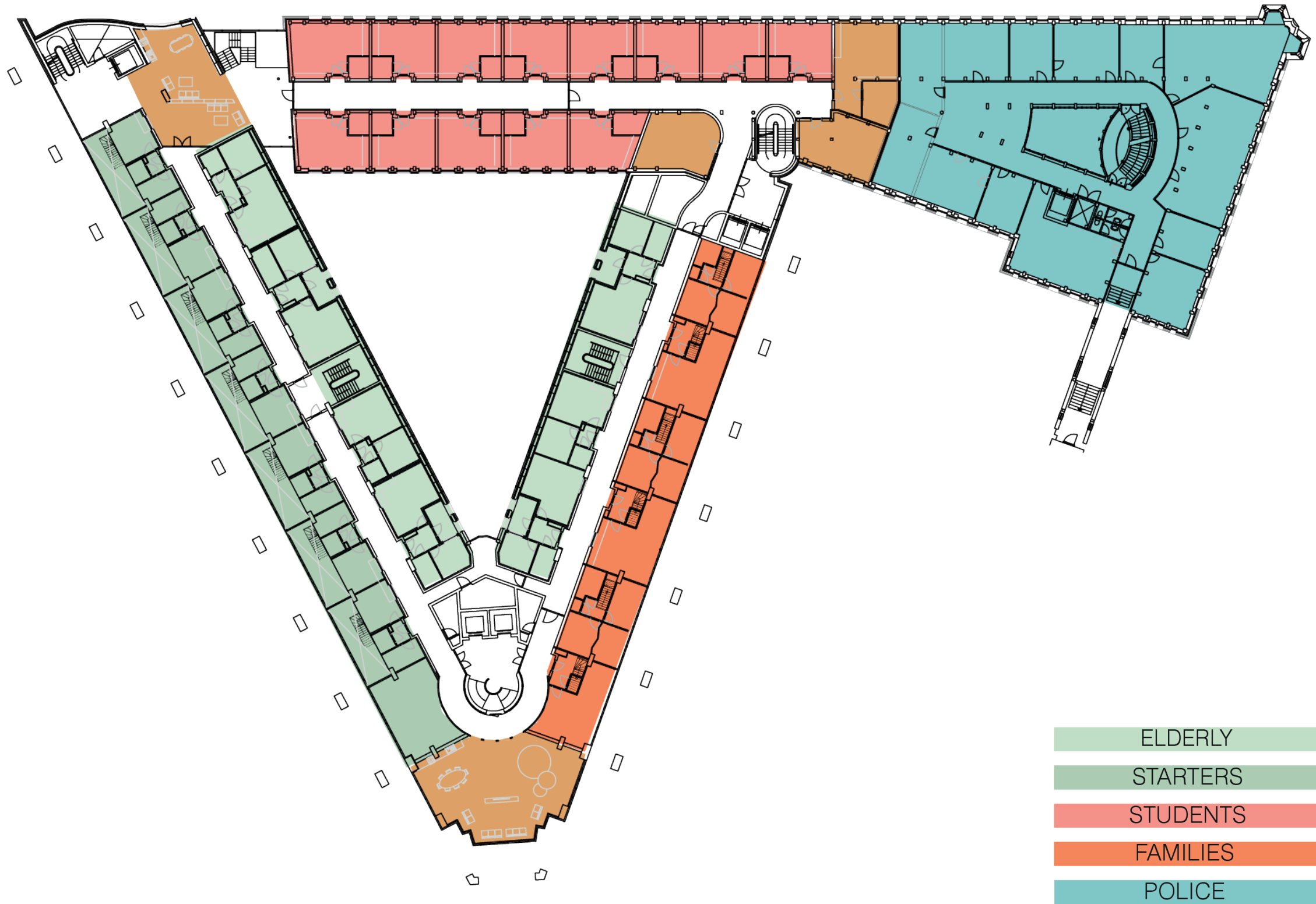
GROUND FLOOR



ORIENTATION

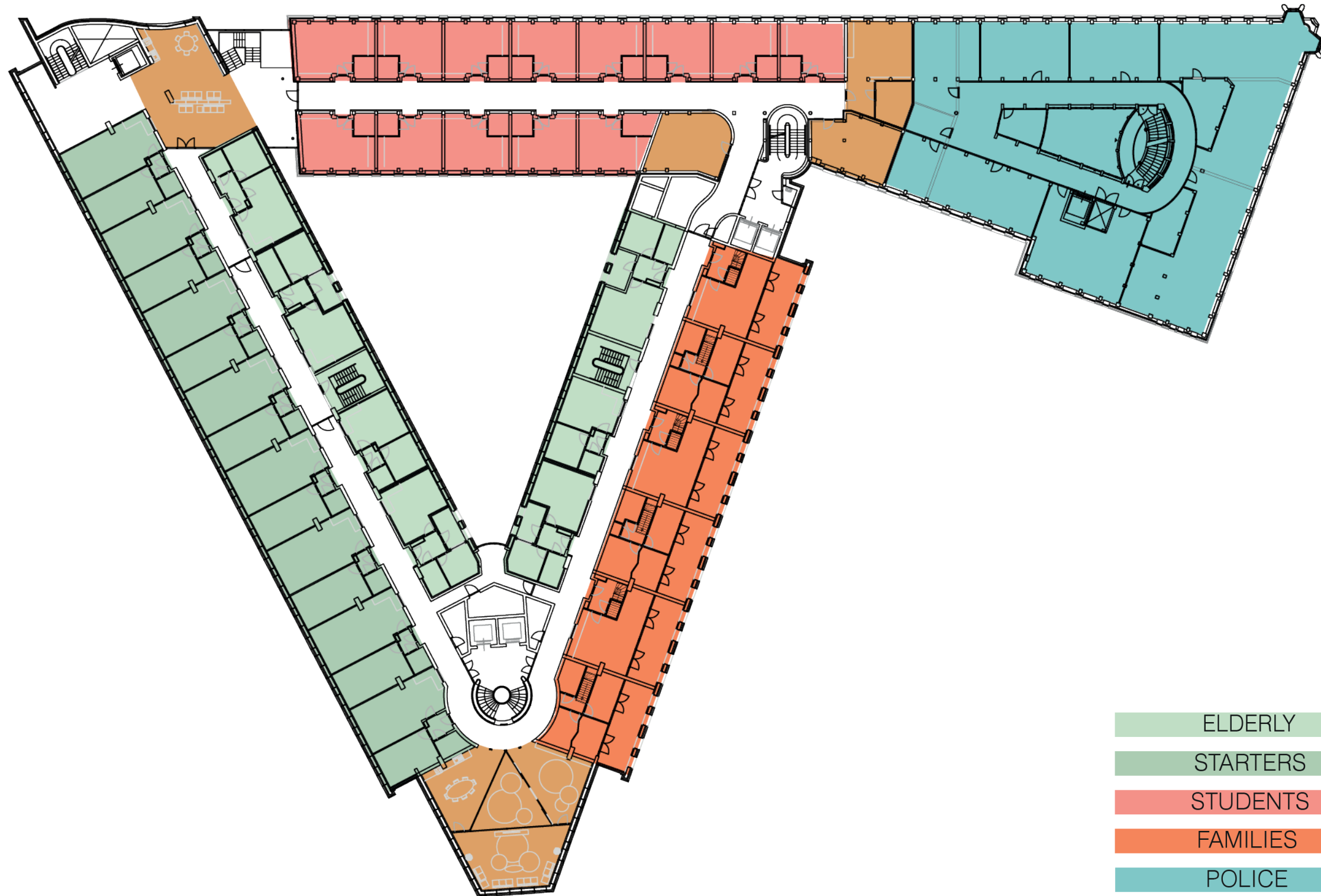


LAYERS OF COLLECTIVENESS



FIRST FLOOR

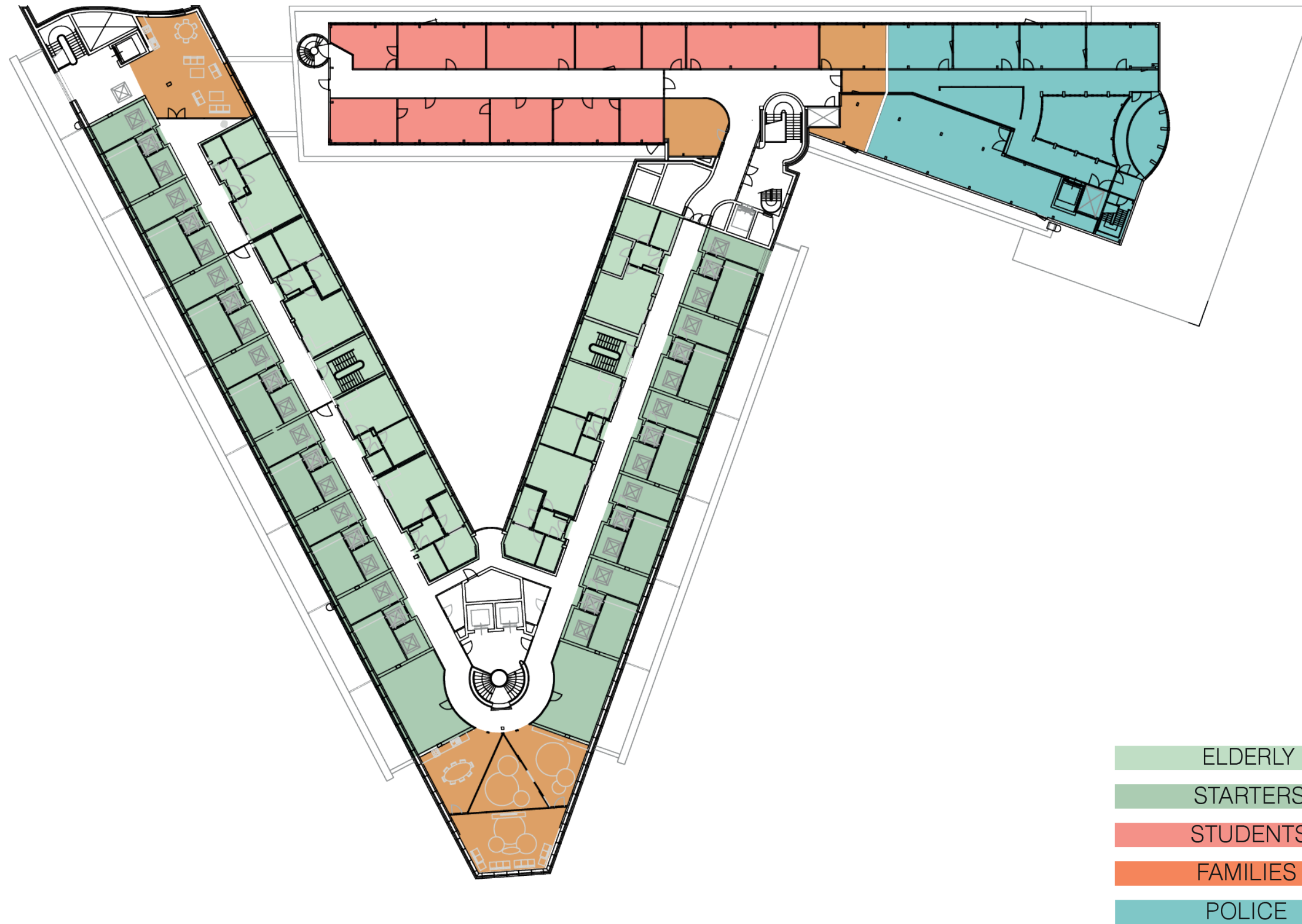
LAYERS OF COLLECTIVENESS



- ELDERLY
- STARTERS
- STUDENTS
- FAMILIES
- POLICE

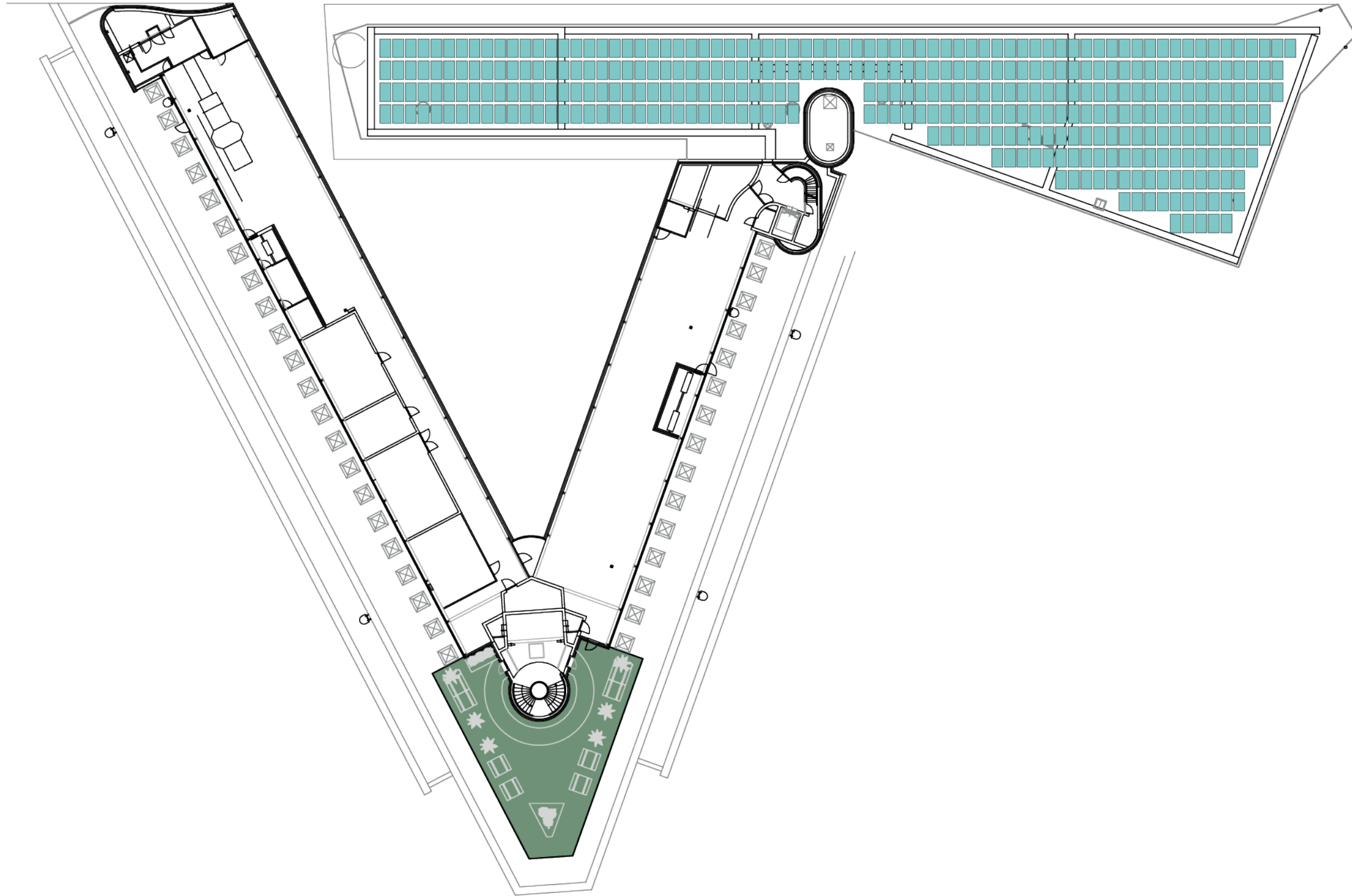
SECOND FLOOR

LAYERS OF COLLECTIVENESS



FIFTH FLOOR

LAYERS OF COLLECTIVENESS



0 5 10 15 20 25

SIXTH FLOOR

COURTYARD

GROUND FLOOR

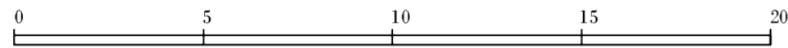


0 5 10 15 20 25

30

COURTYARD

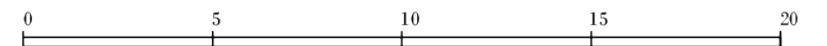
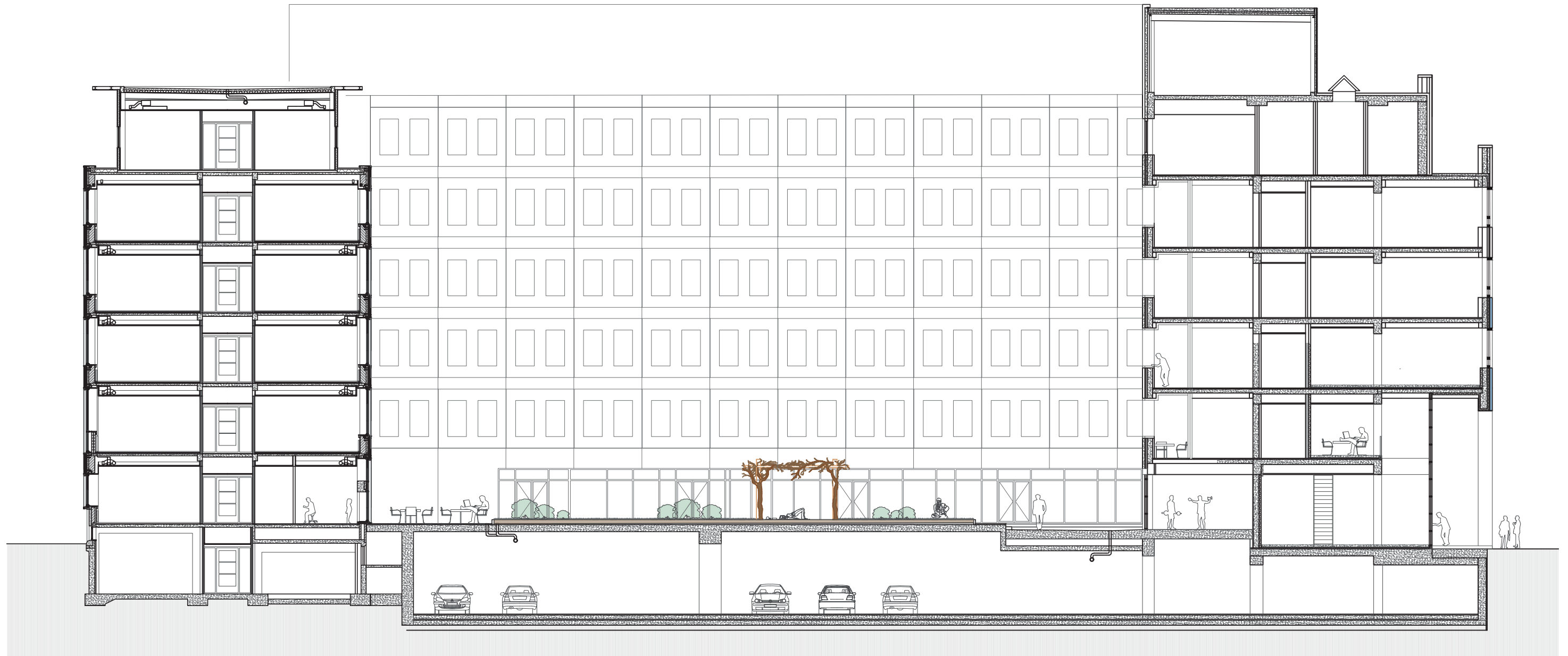
GROUND FLOOR



GROUND FLOOR

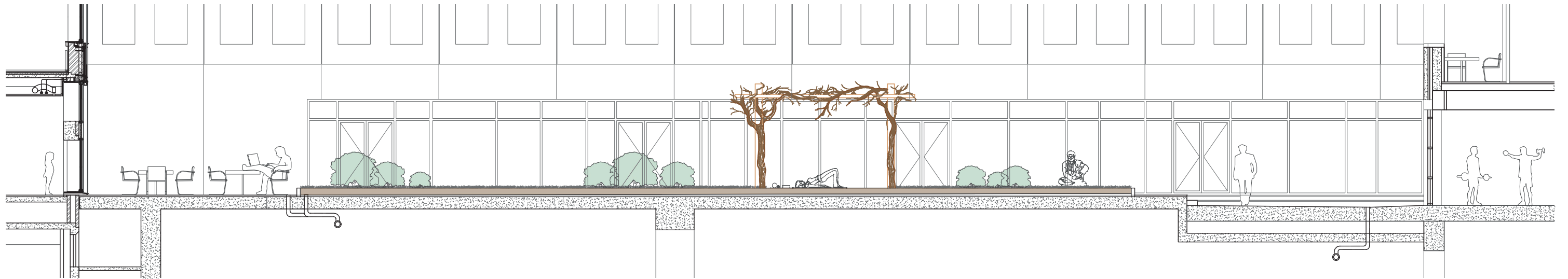
COURTYARD

SECTION A_A



COURTYARD

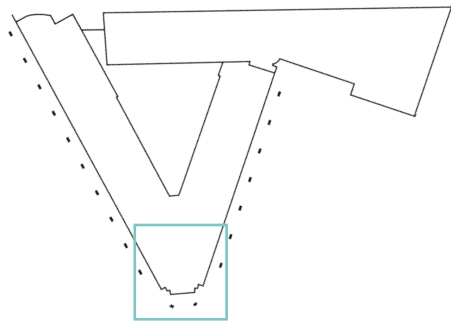
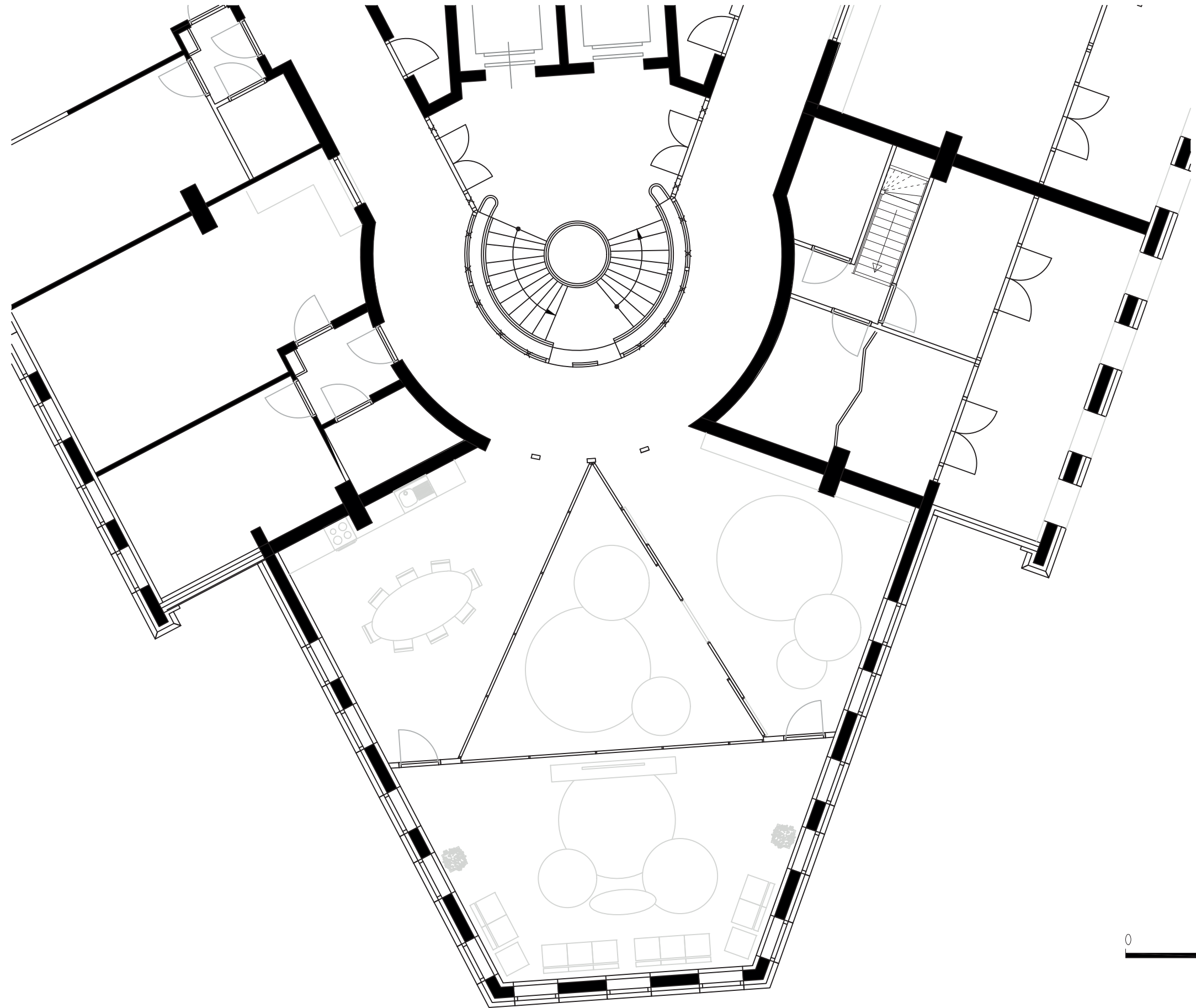
SECTION A_A





INTERACTION TARGET GROUPS

MAIN CORNER

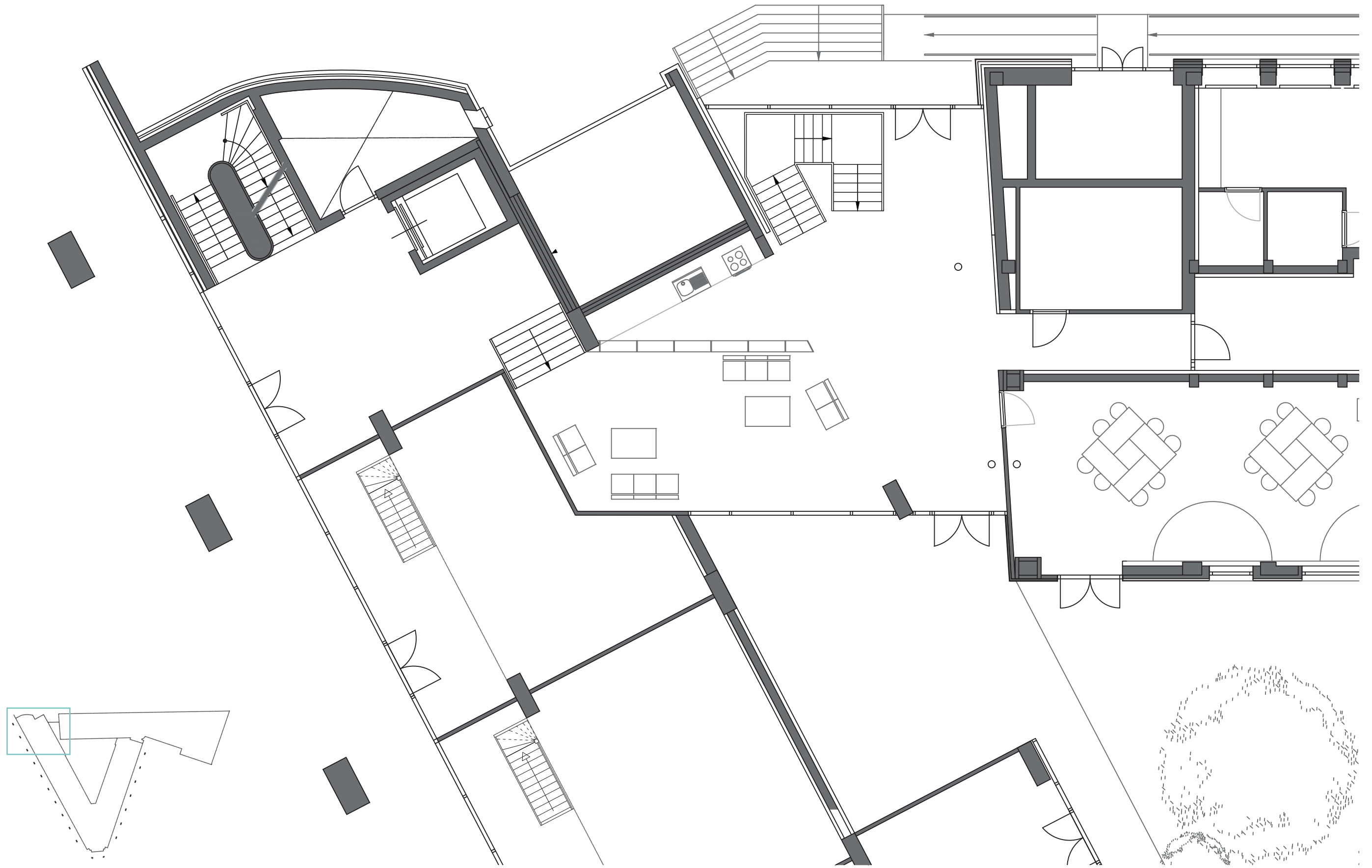


SECOND FLOOR

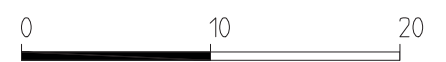


INTERACTION TARGET GROUPS

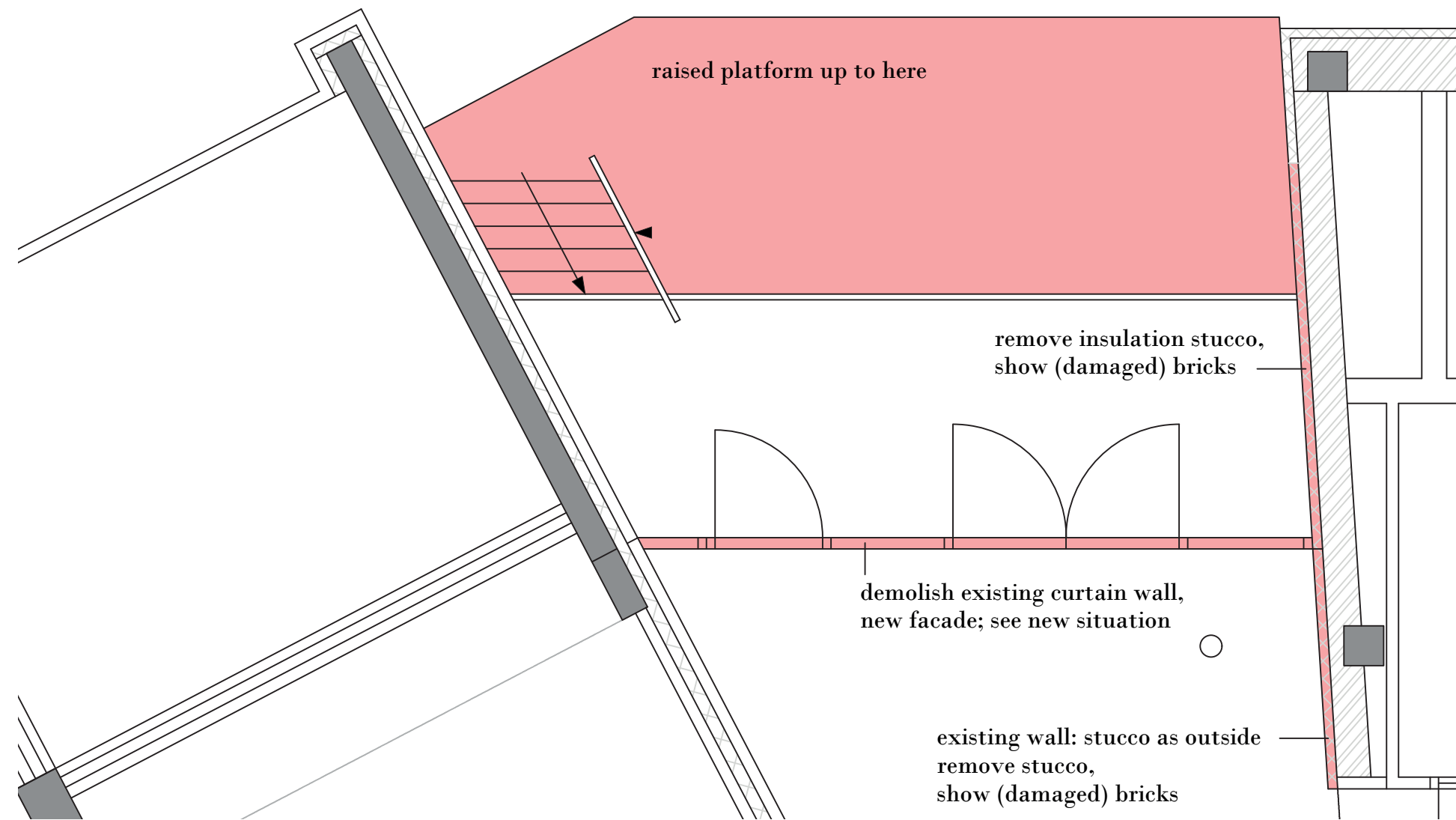
INBETWEEN CORNER



GROUND FLOOR 1:100

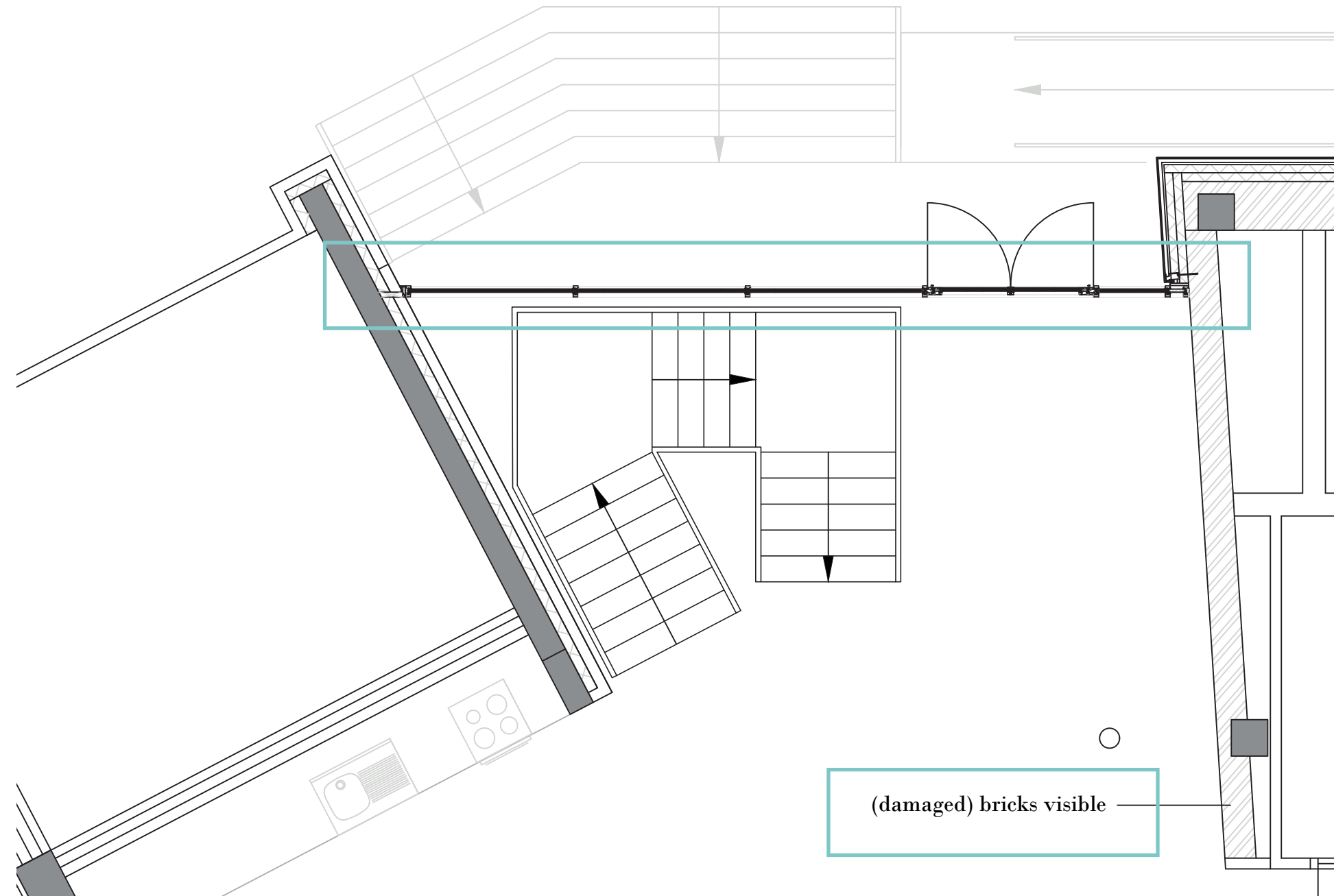


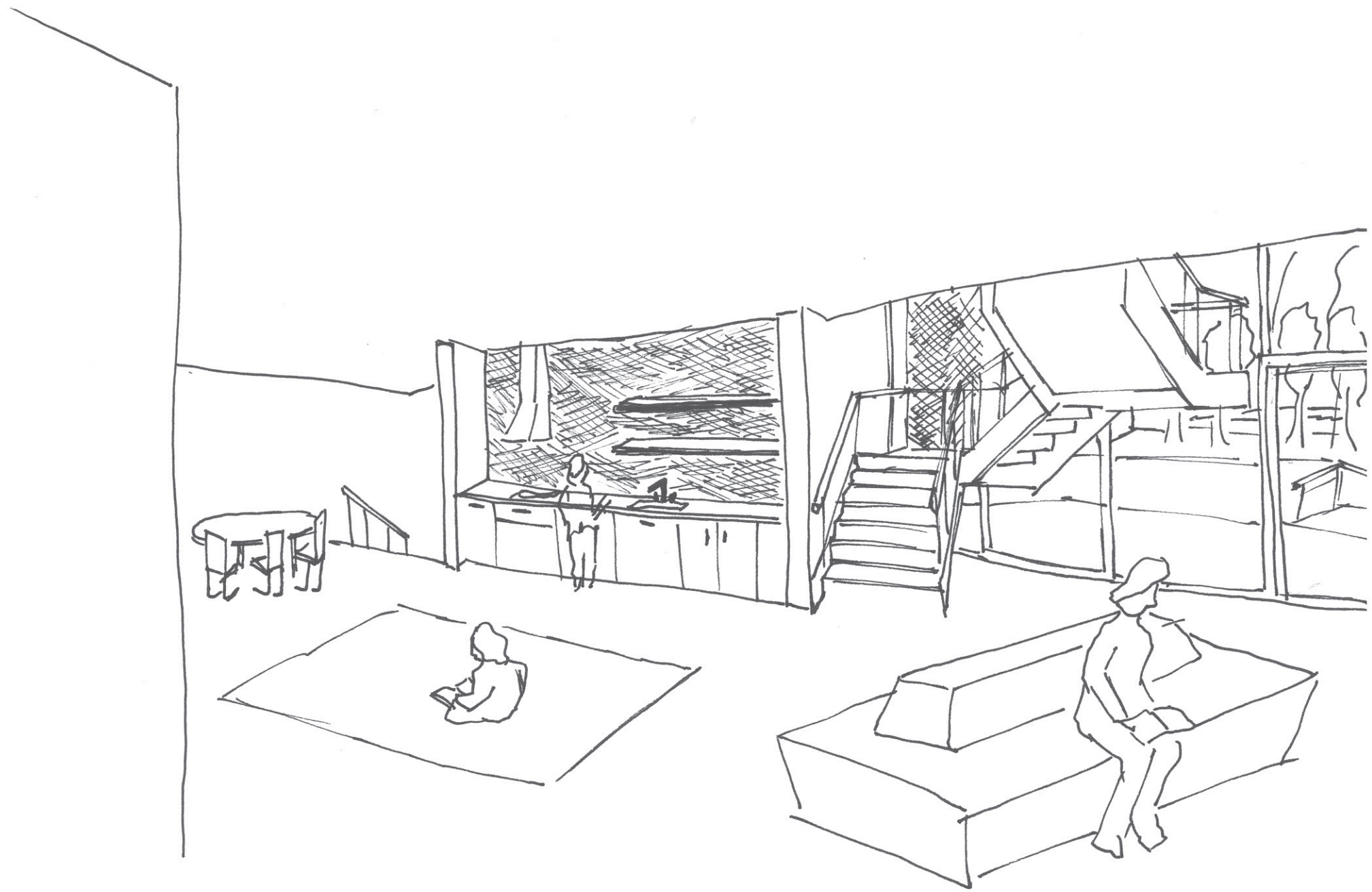
CURRENT ENTRANCE



NEW ENTRANCE

TANGIBLE LAYERING OF TIME



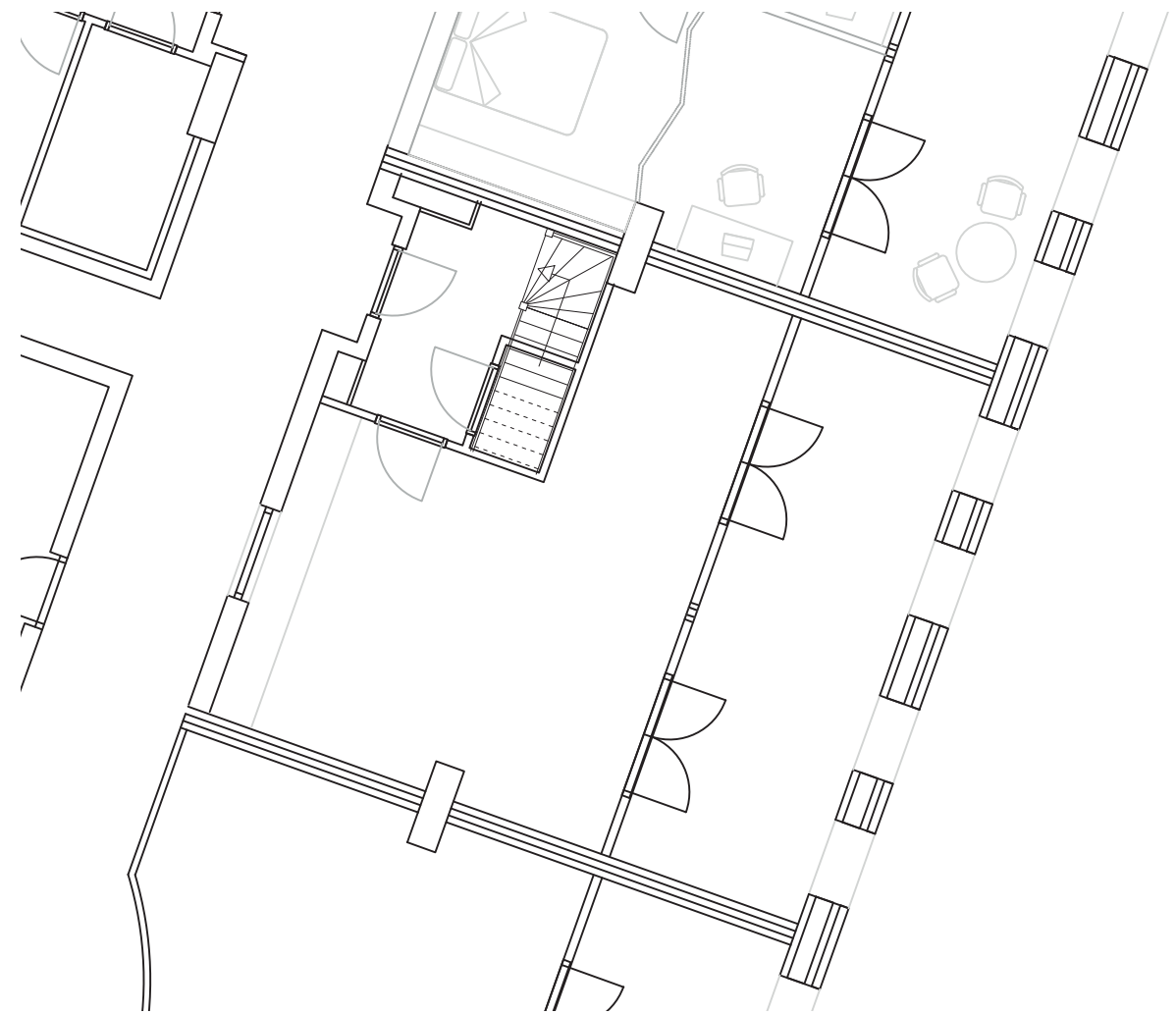


APARTMENTS

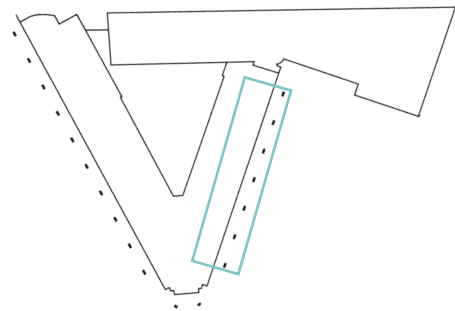
FAMILIES



FIRST FLOOR

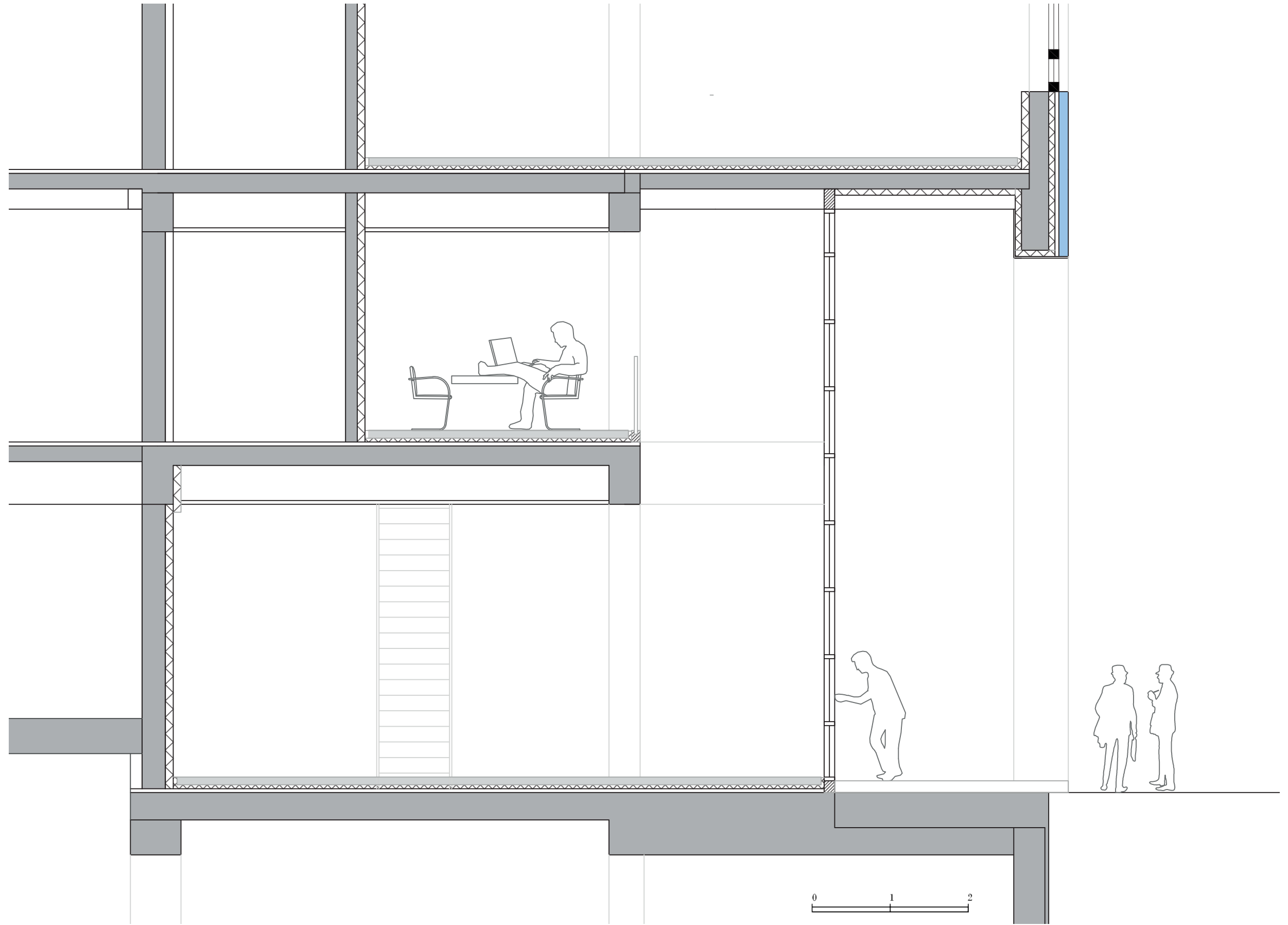


SECOND FLOOR



LIVE-WORK APARTMENT

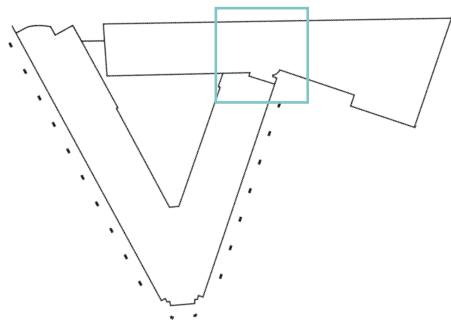
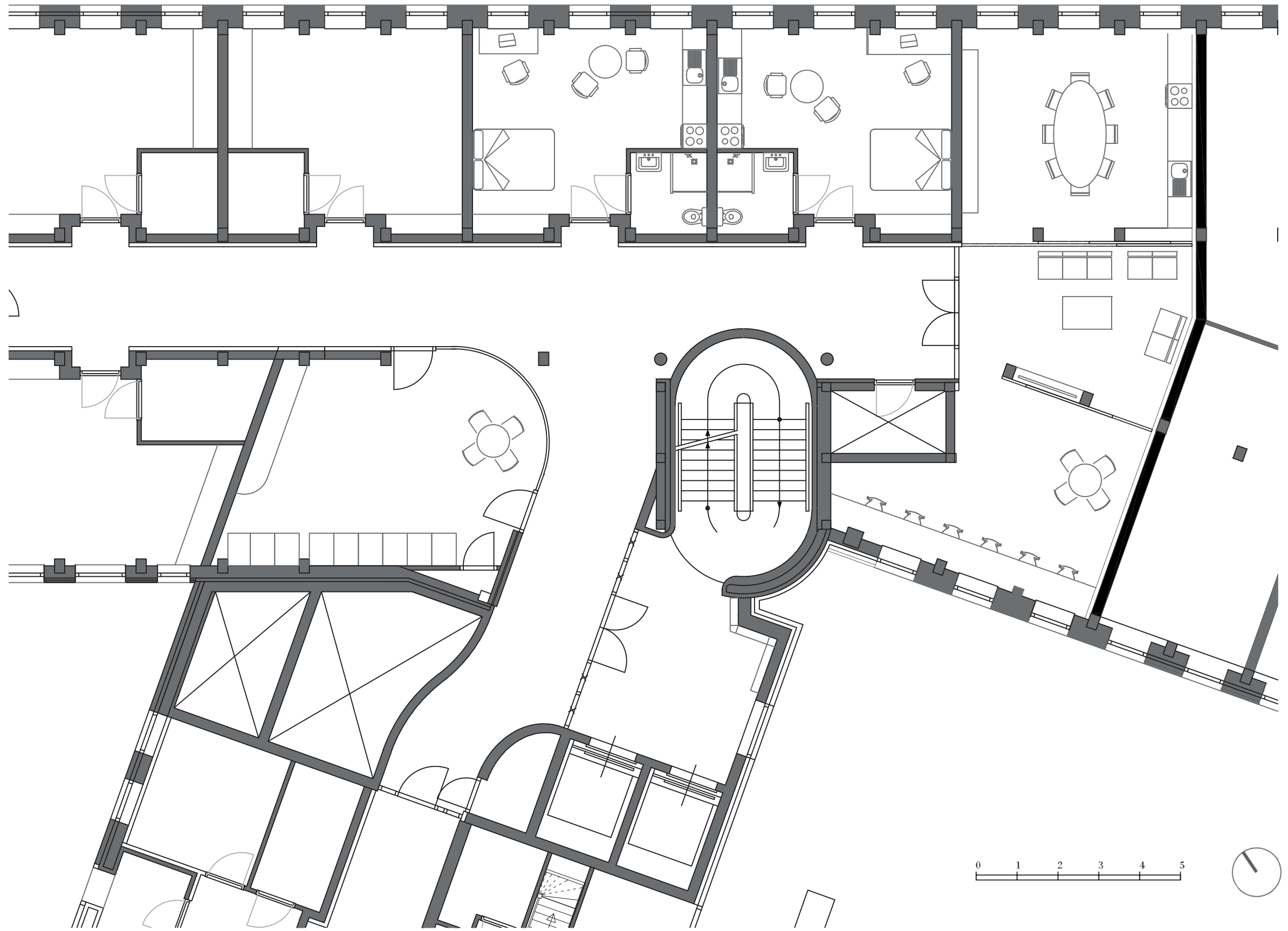
STARTERS



SECTION DOELWATER 1:50

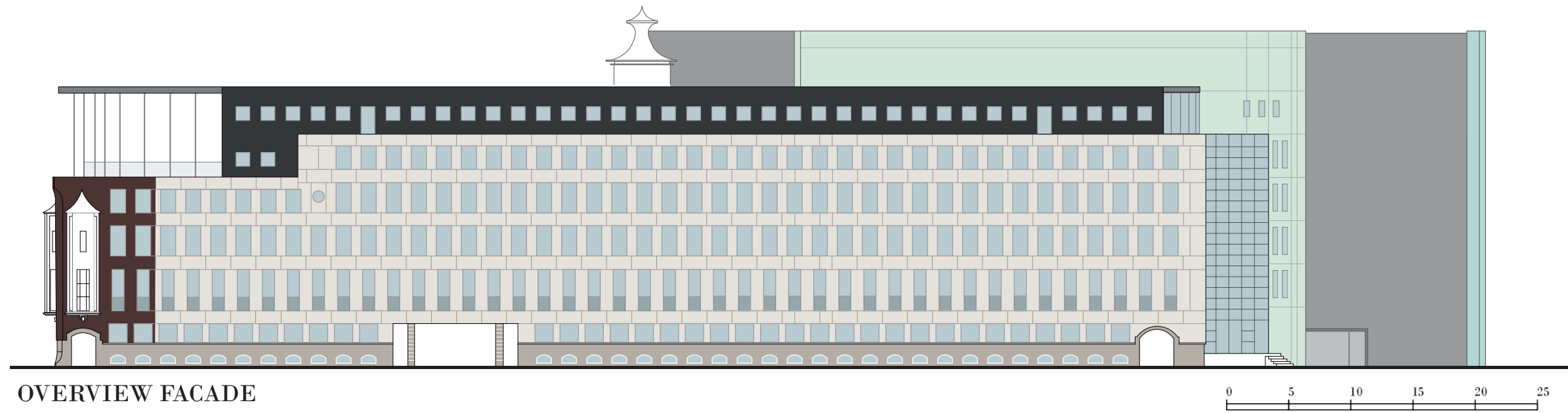
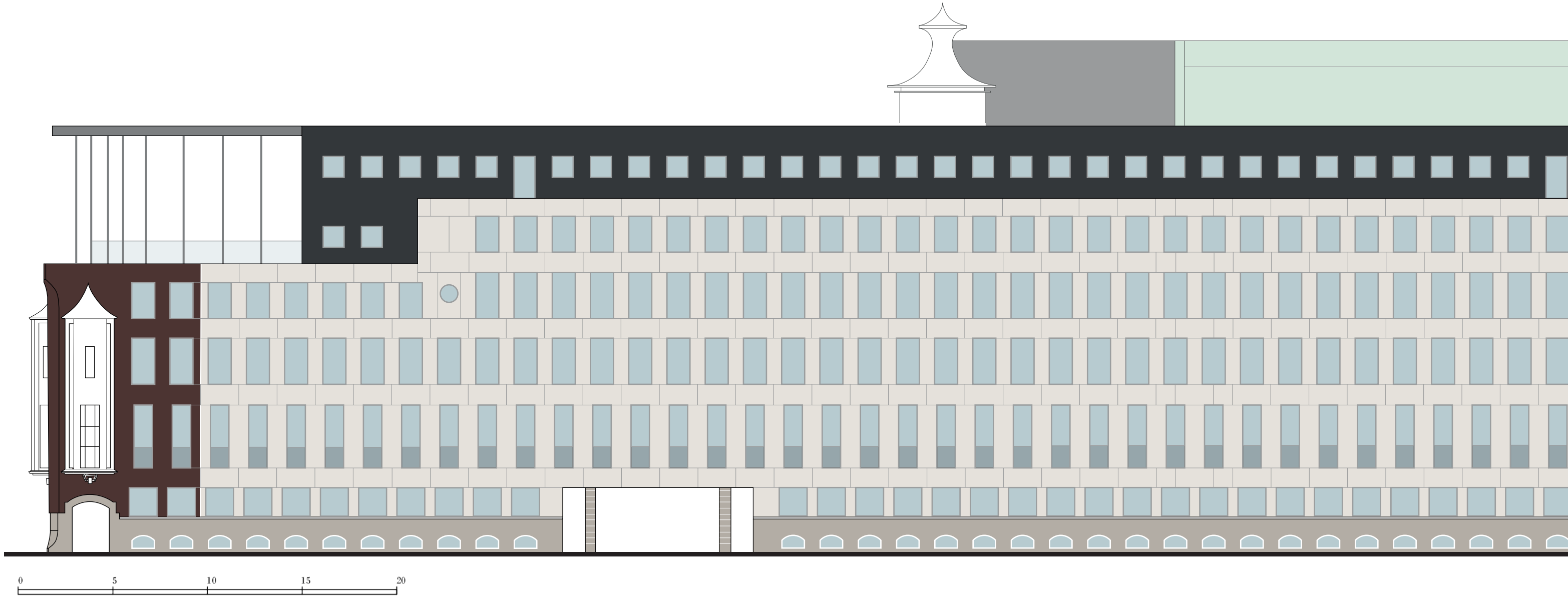
INTERACTION TARGET GROUPS

STUDENT CORNER



NEW LAYER OF TIME

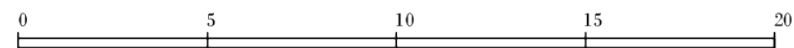
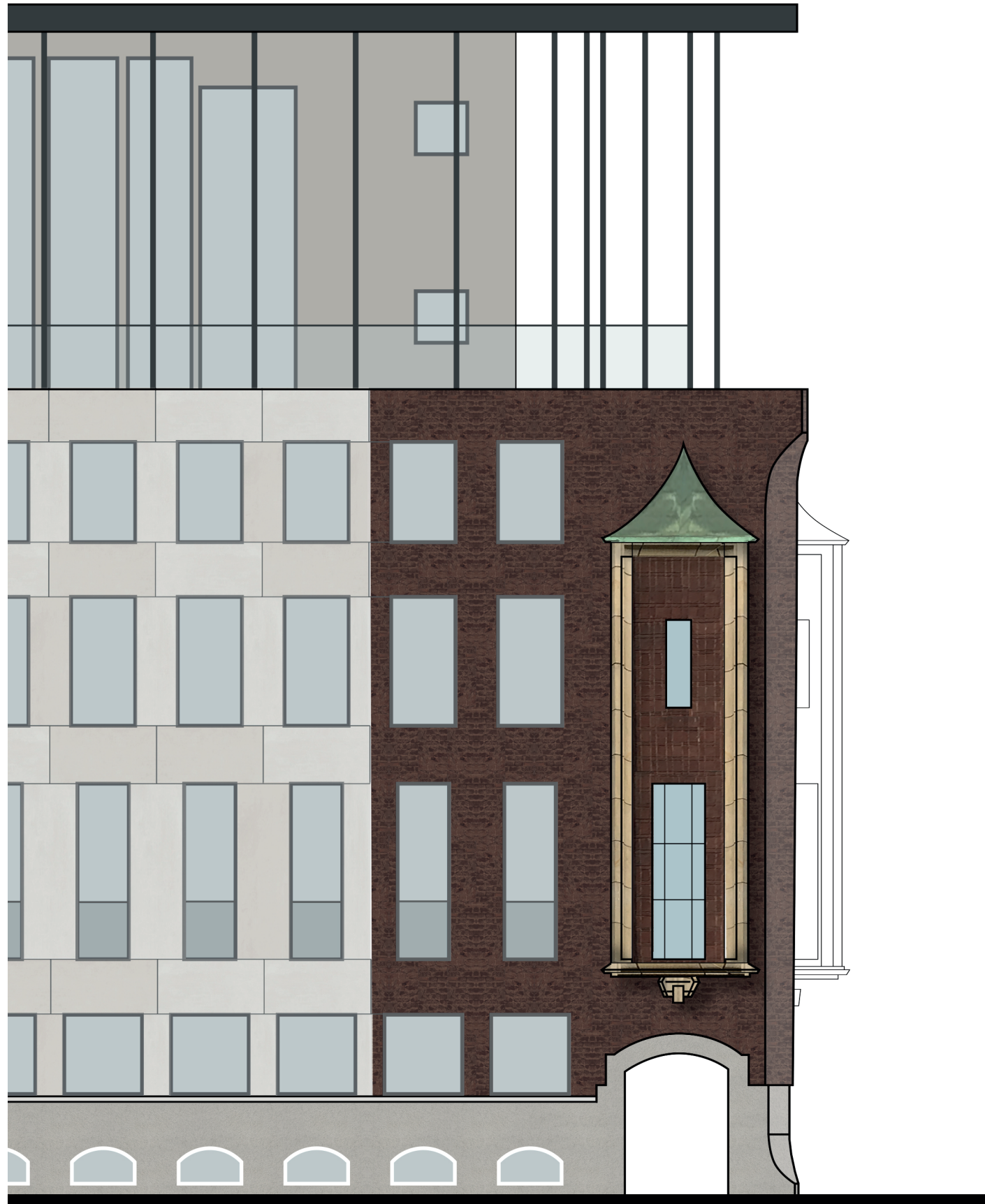
FACADE HAAGSEVEER



OVERVIEW FACADE

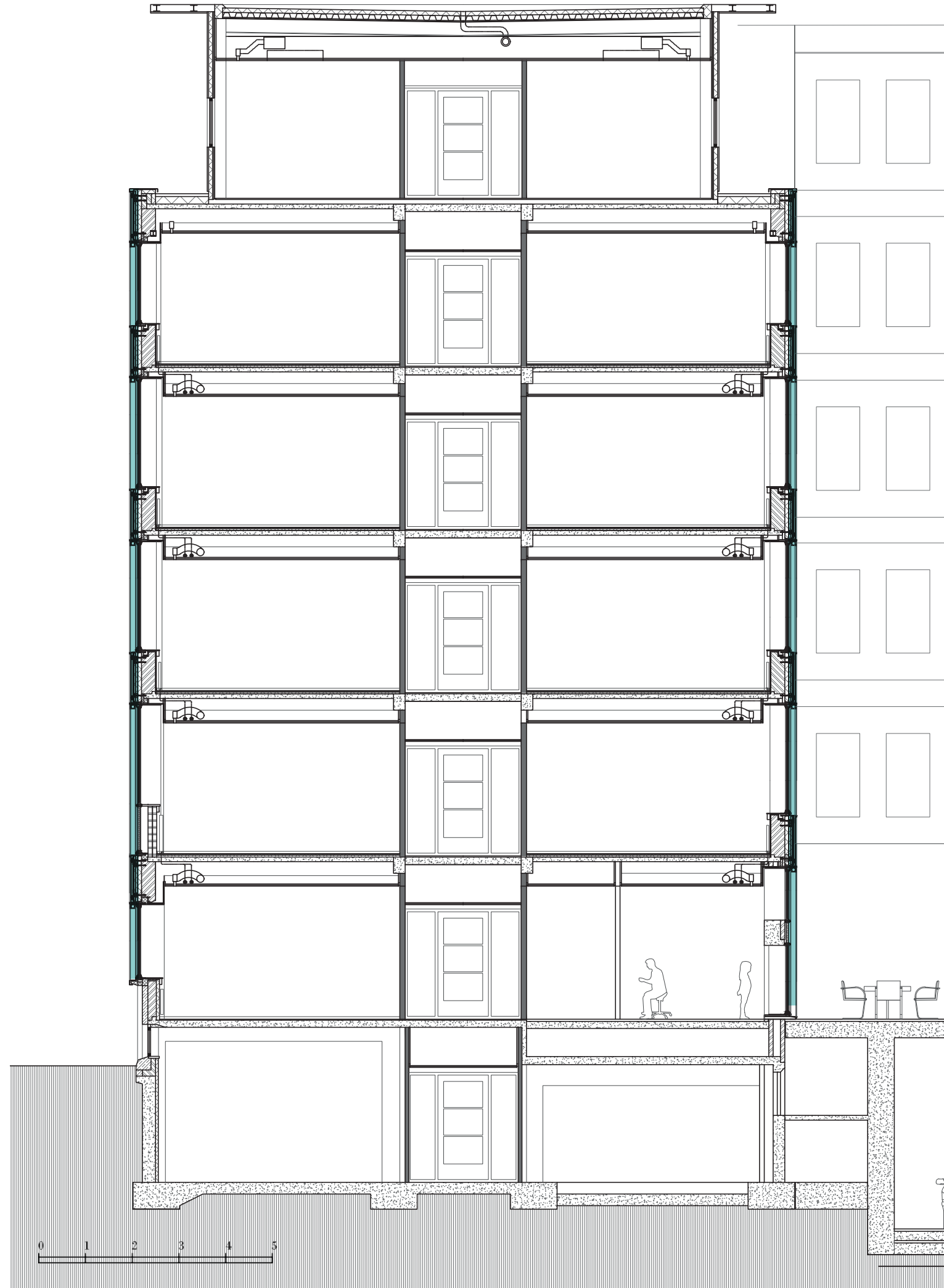
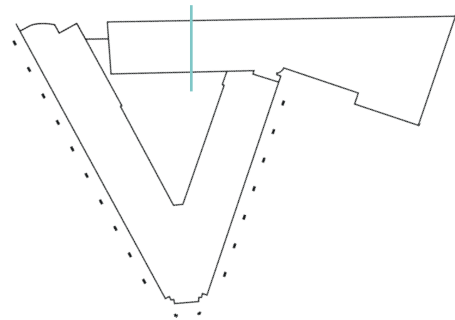
NEW LAYER OF TIME

FACADE SQUARE



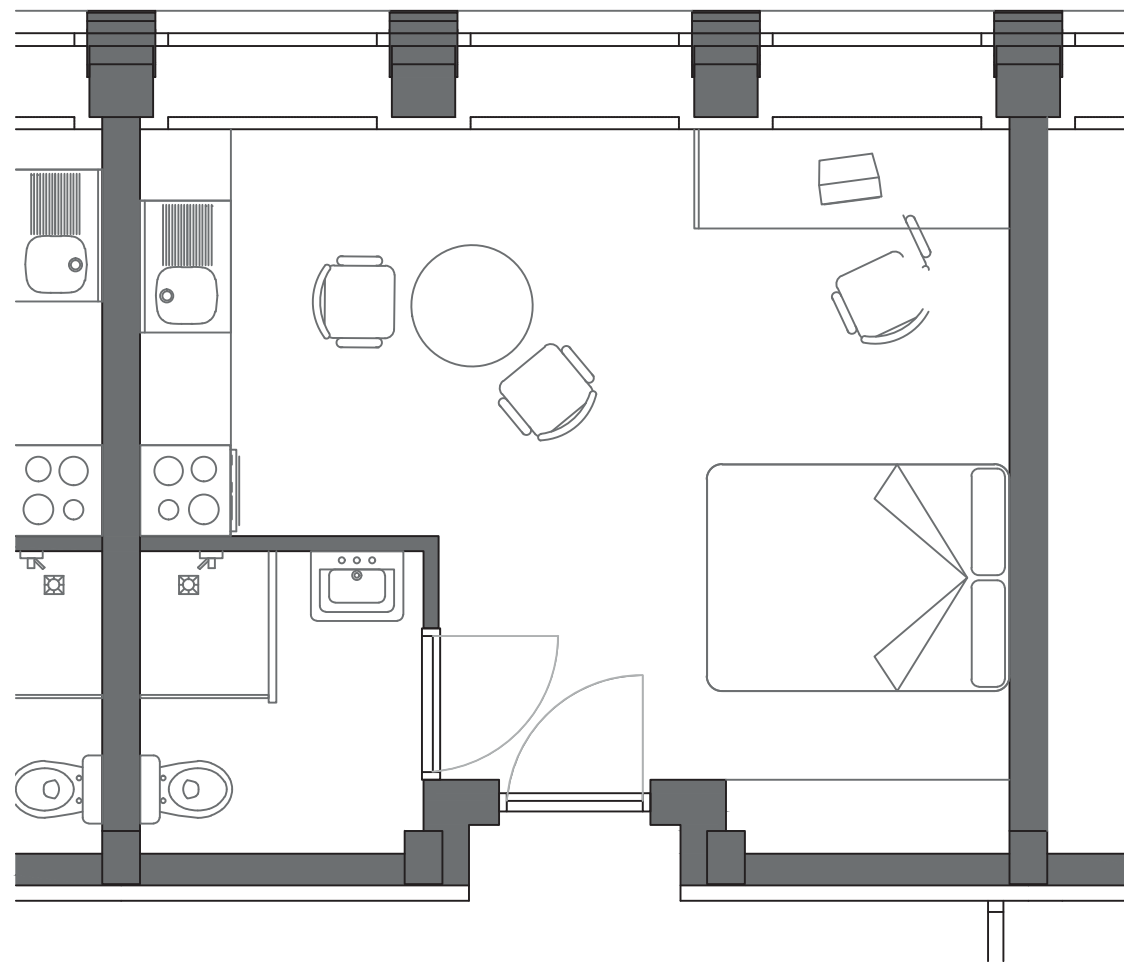
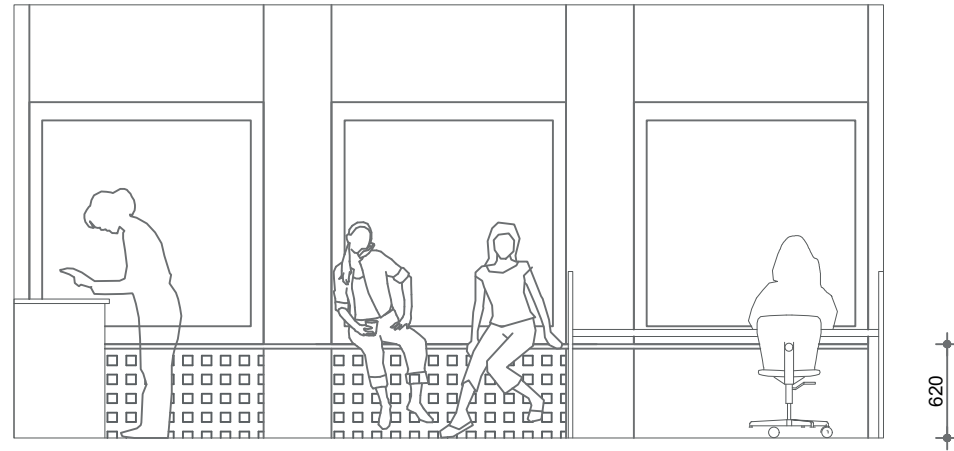
NEW LAYER OF TIME

SECTION D_D

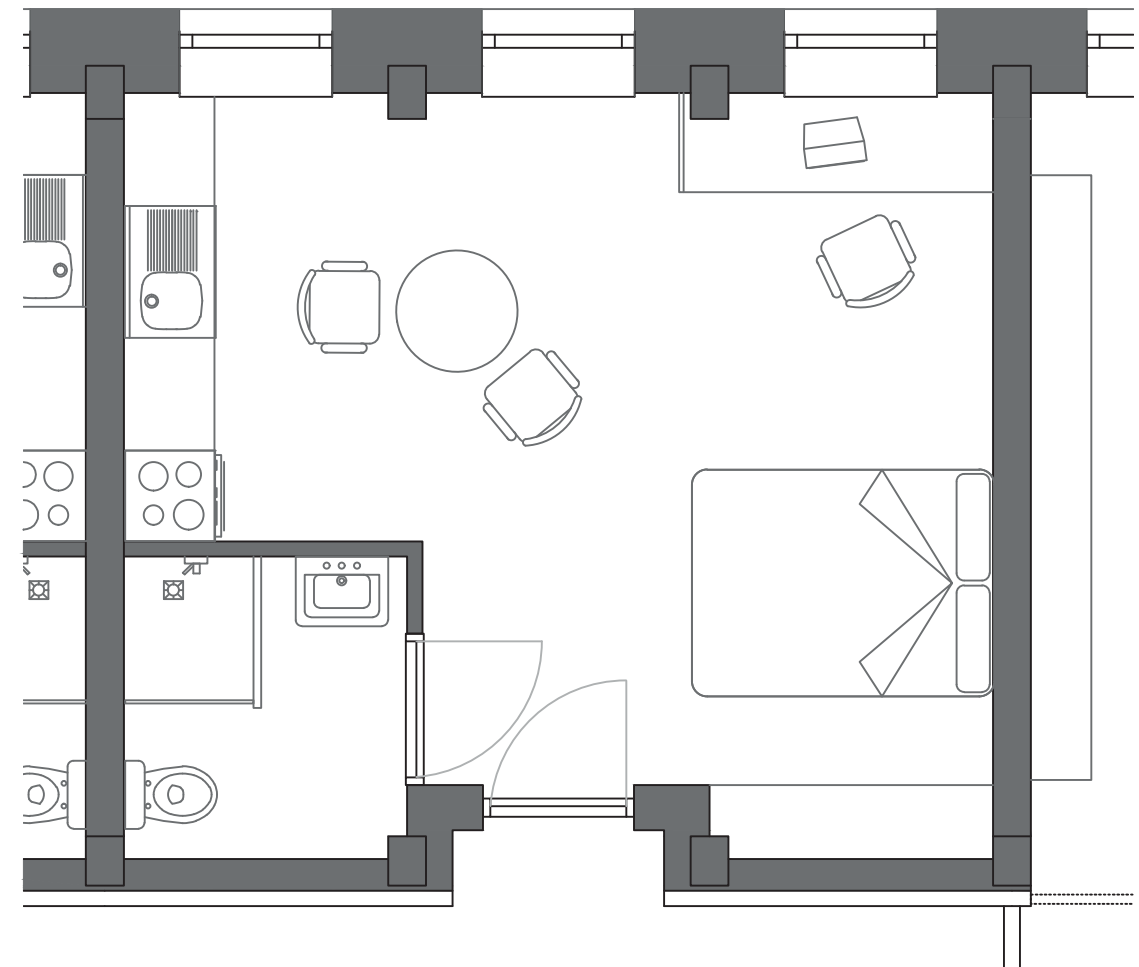


APARTMENTS

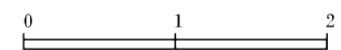
STUDENTS



GROUND FLOOR

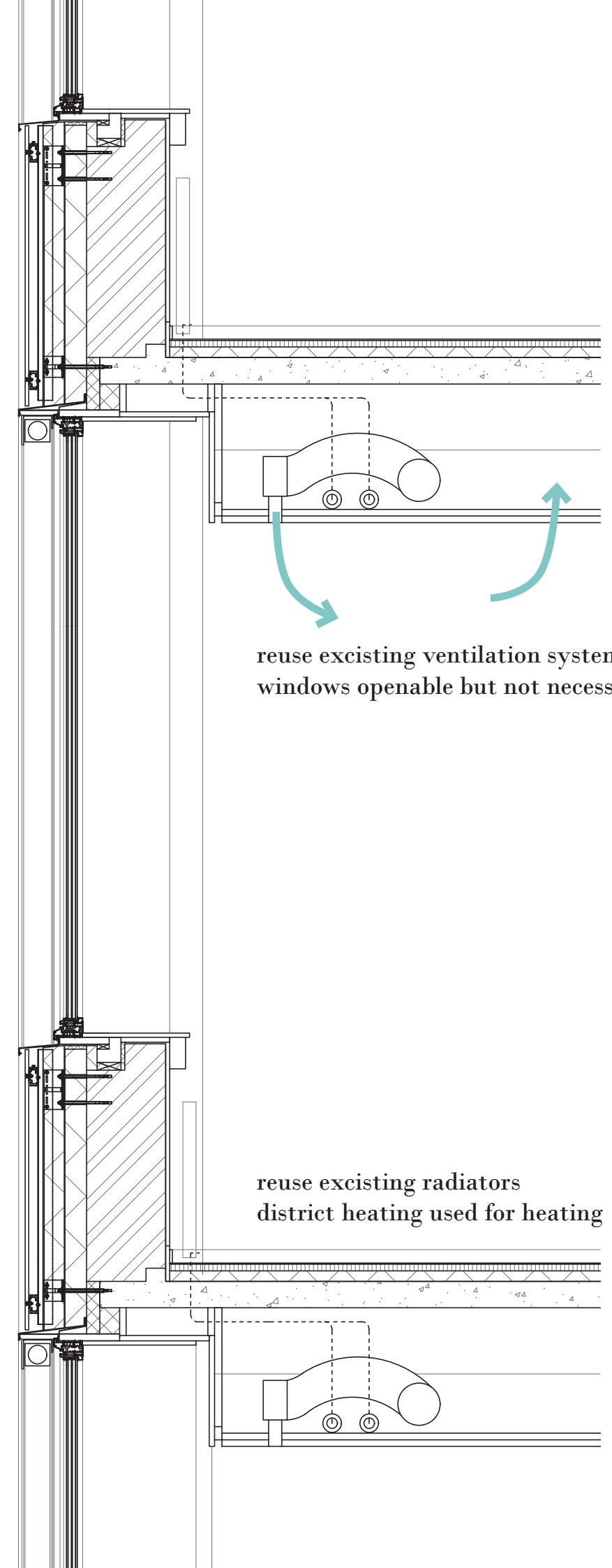
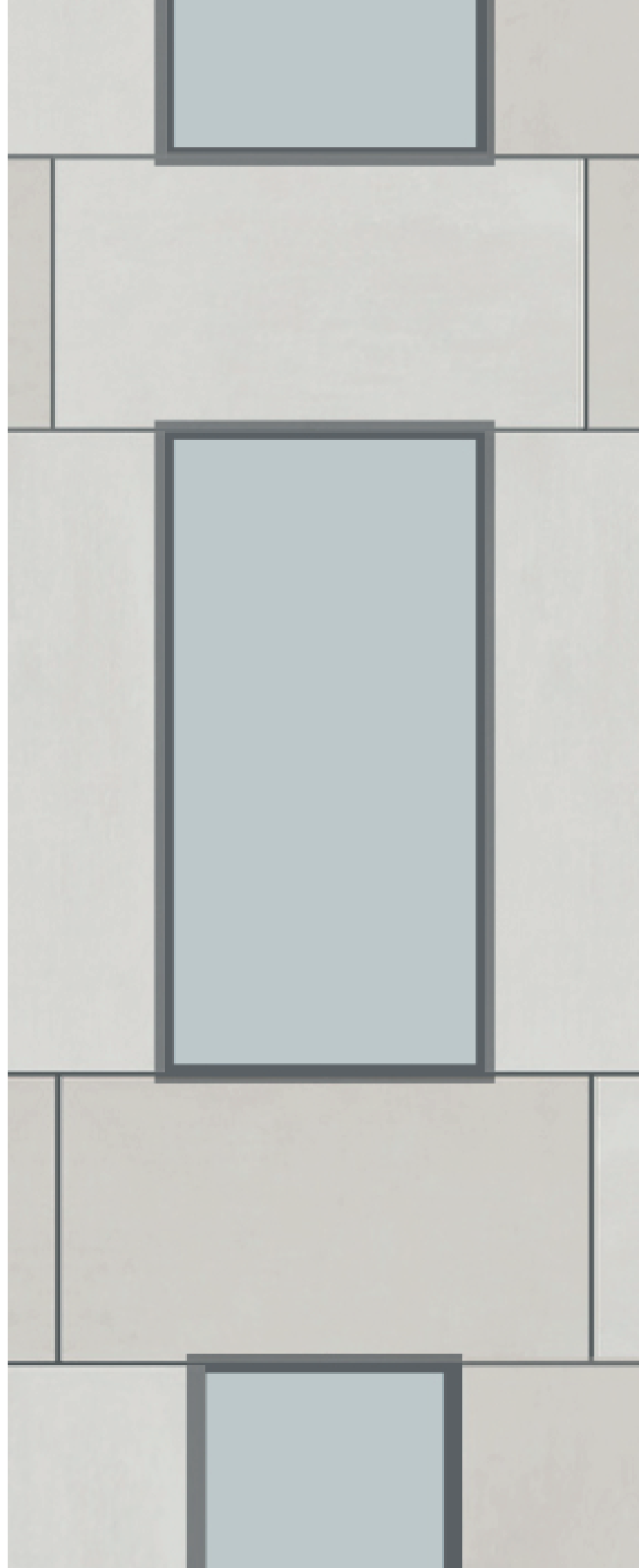
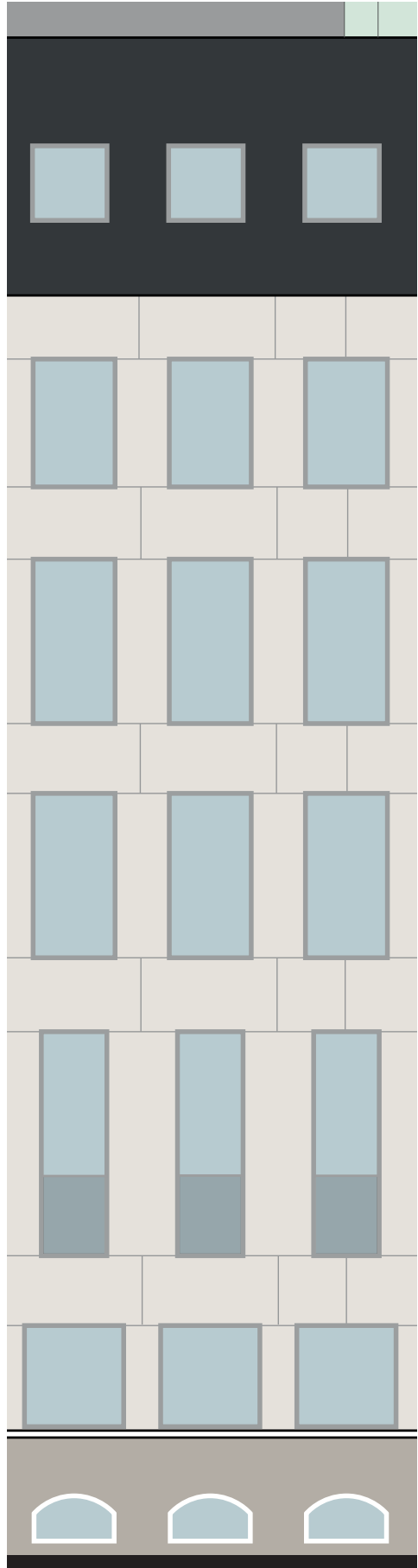


FIRST FLOOR



FACADE 1:20

VENTILATION & HEATING



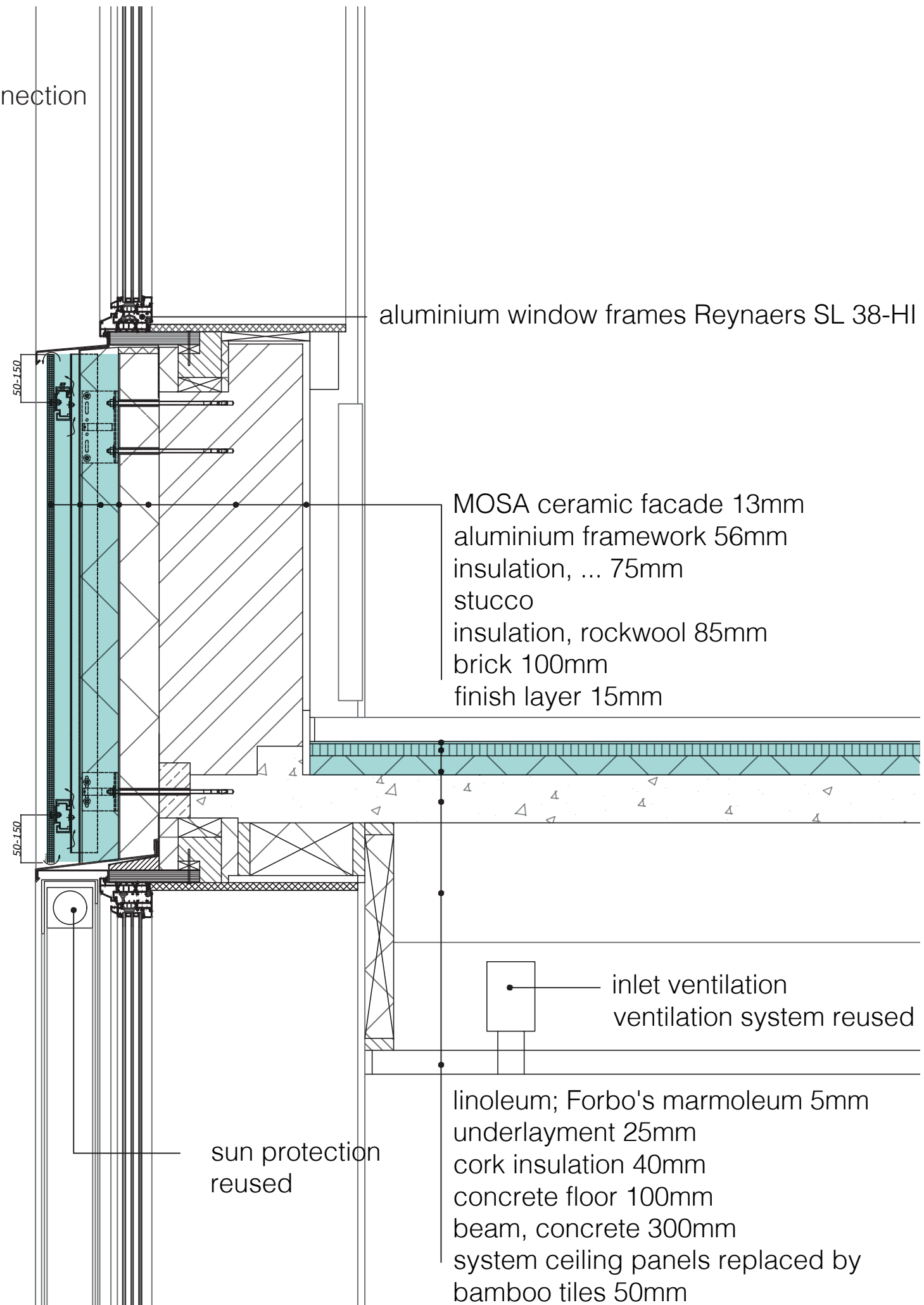
reuse existing ventilation system,
windows openable but not necessary to ventilate

reuse existing radiators
district heating used for heating

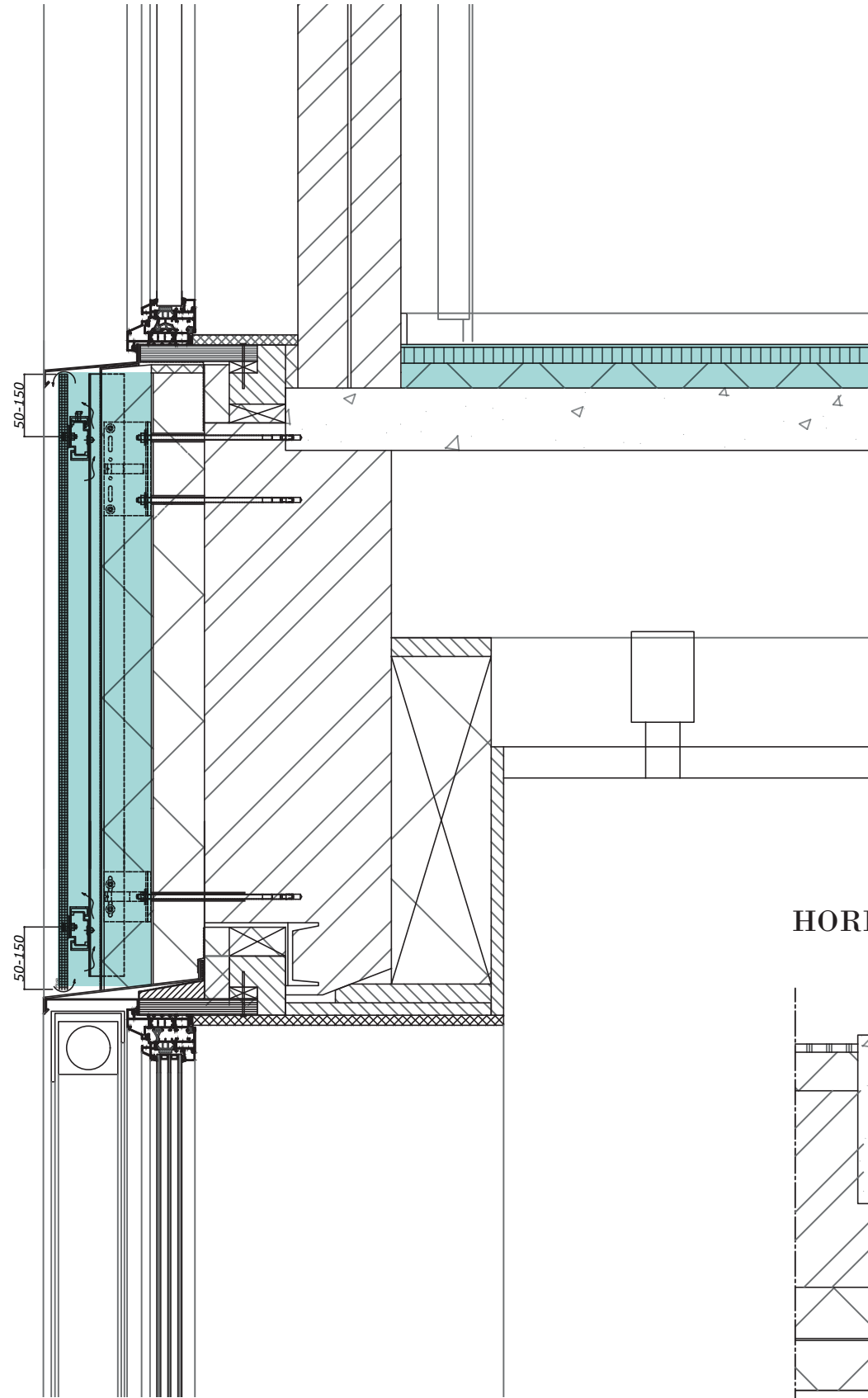
FACADE

DETAIL

Detail 2
haagseveer new
standard floor-facade connection



FACADE

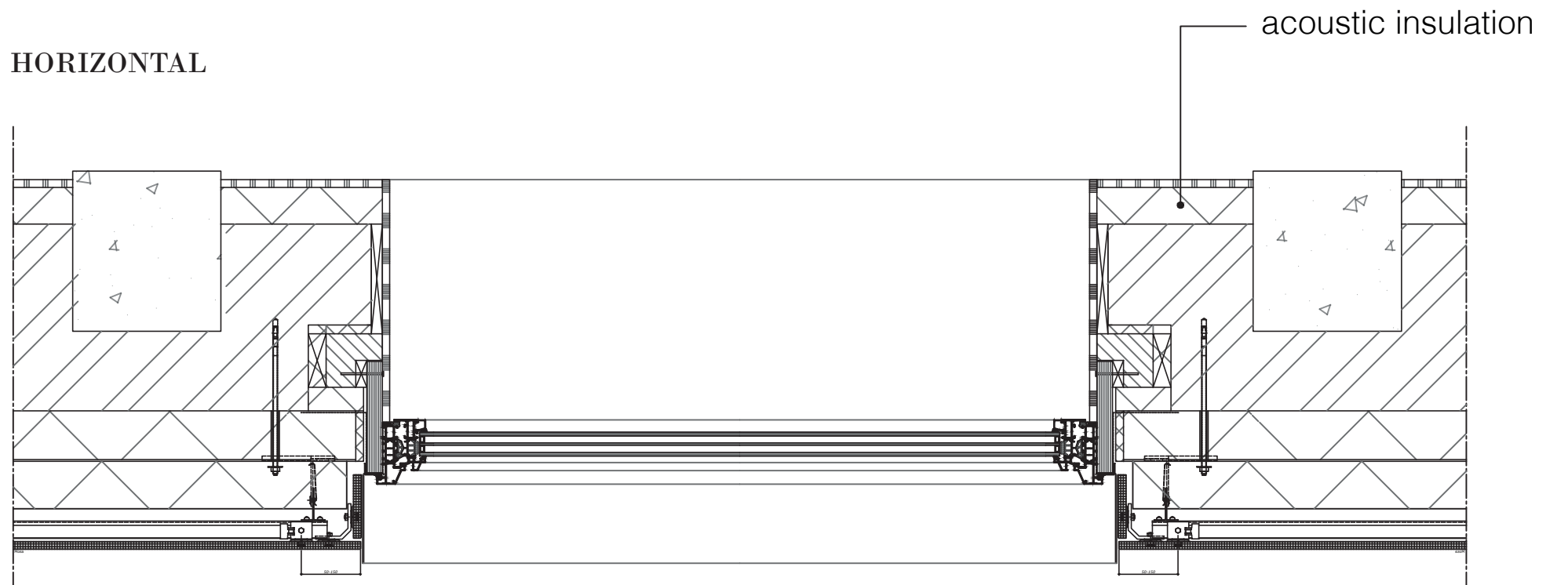


EXCEPTION FIRST FLOOR



MOSA. CORE COLLECTION TERRA Copyright Koninklijke Mosa bv

HORIZONTAL



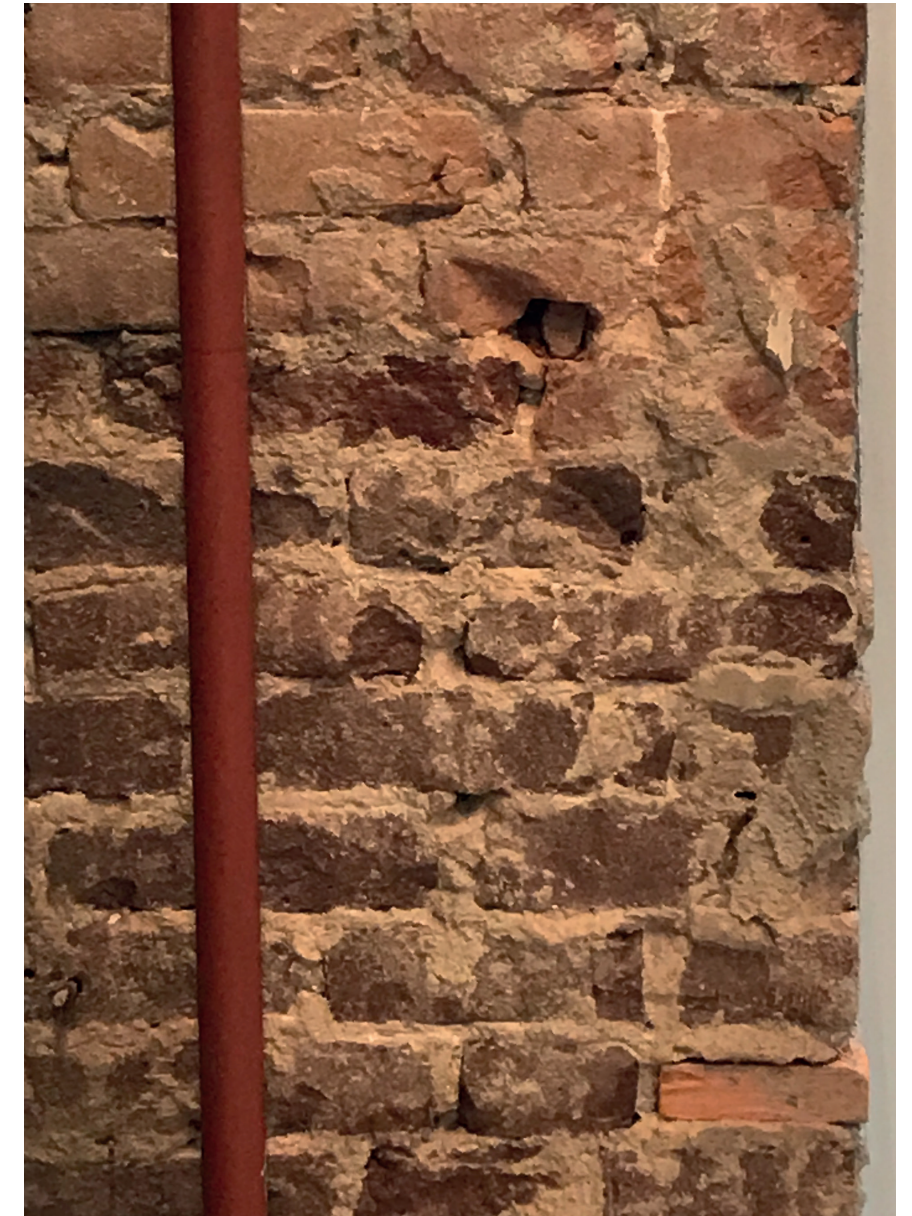
PEELED CORNER

TANGIBLE LAYERING OF TIME



PEELED CORNER

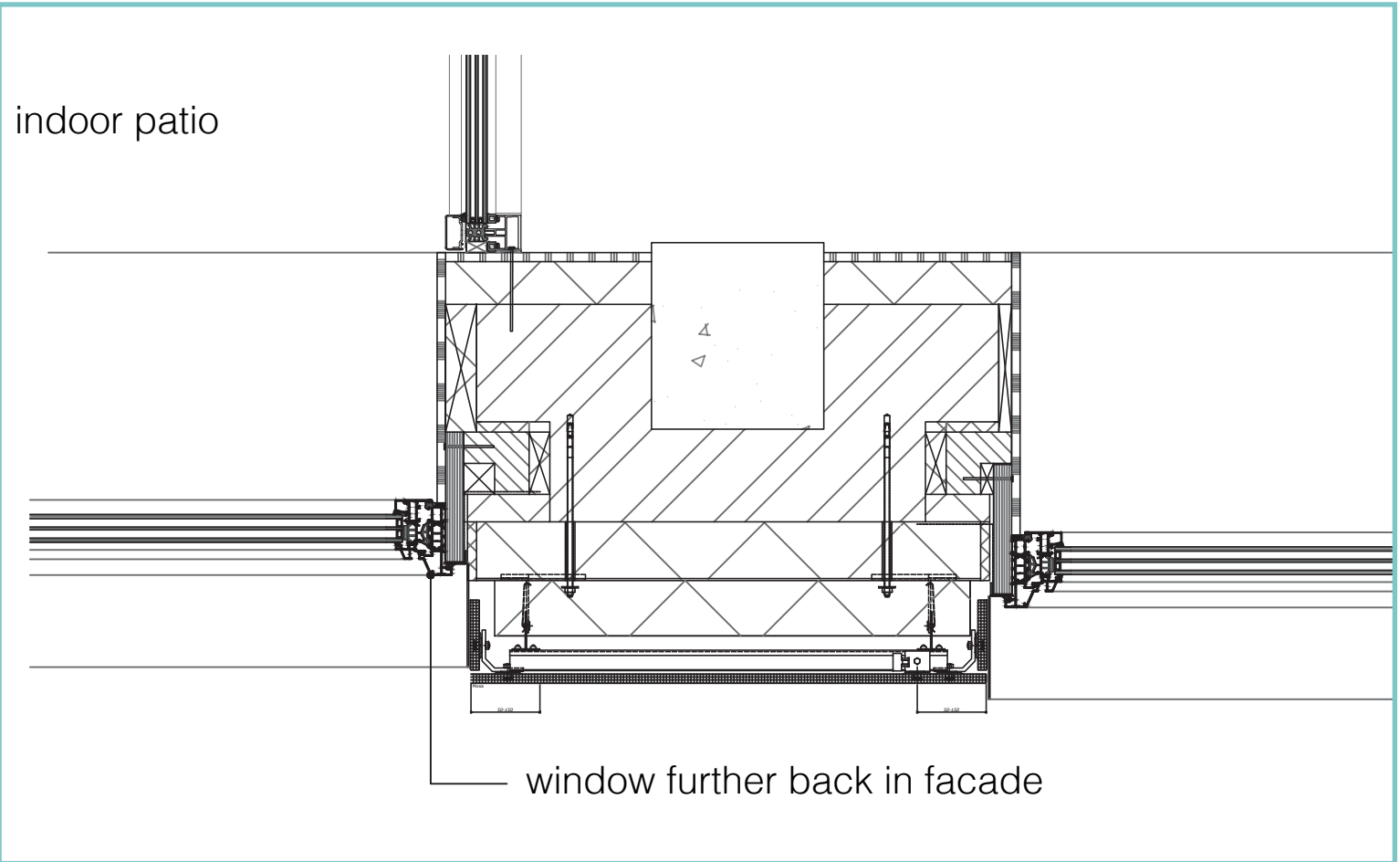
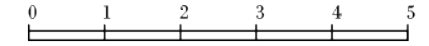
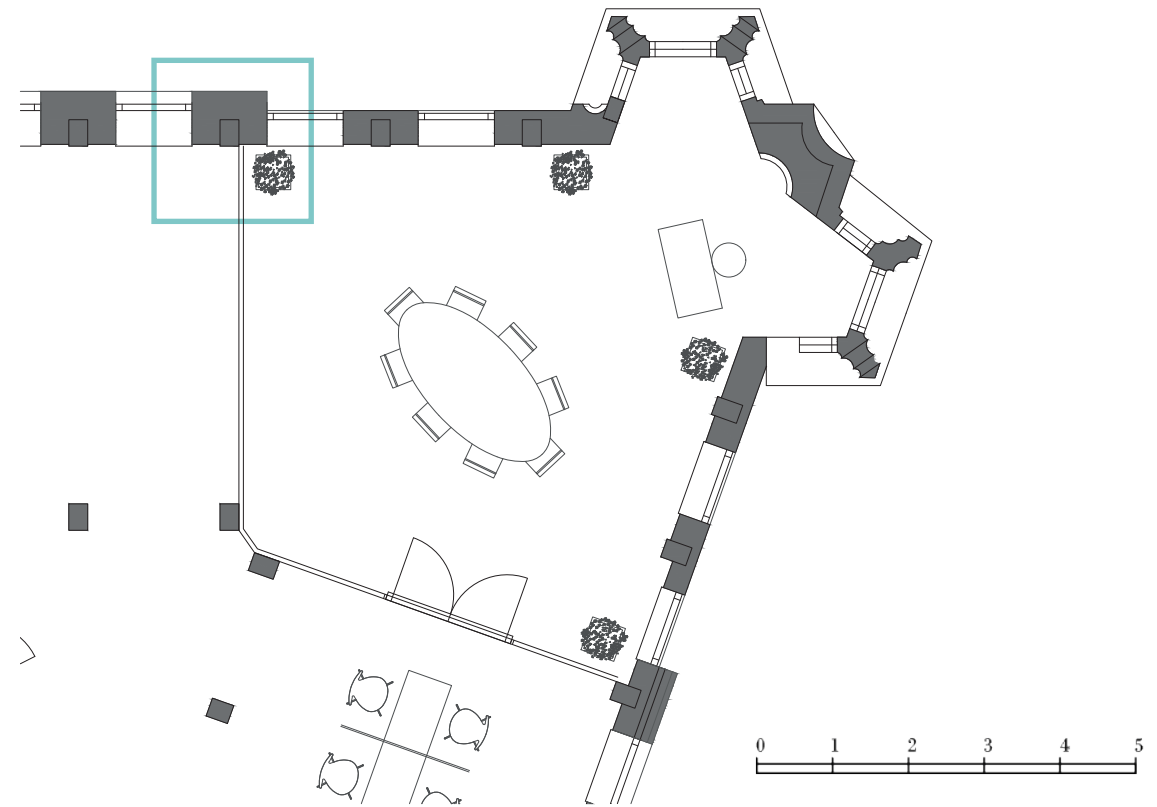
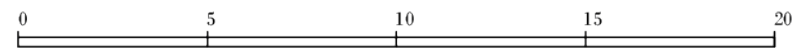
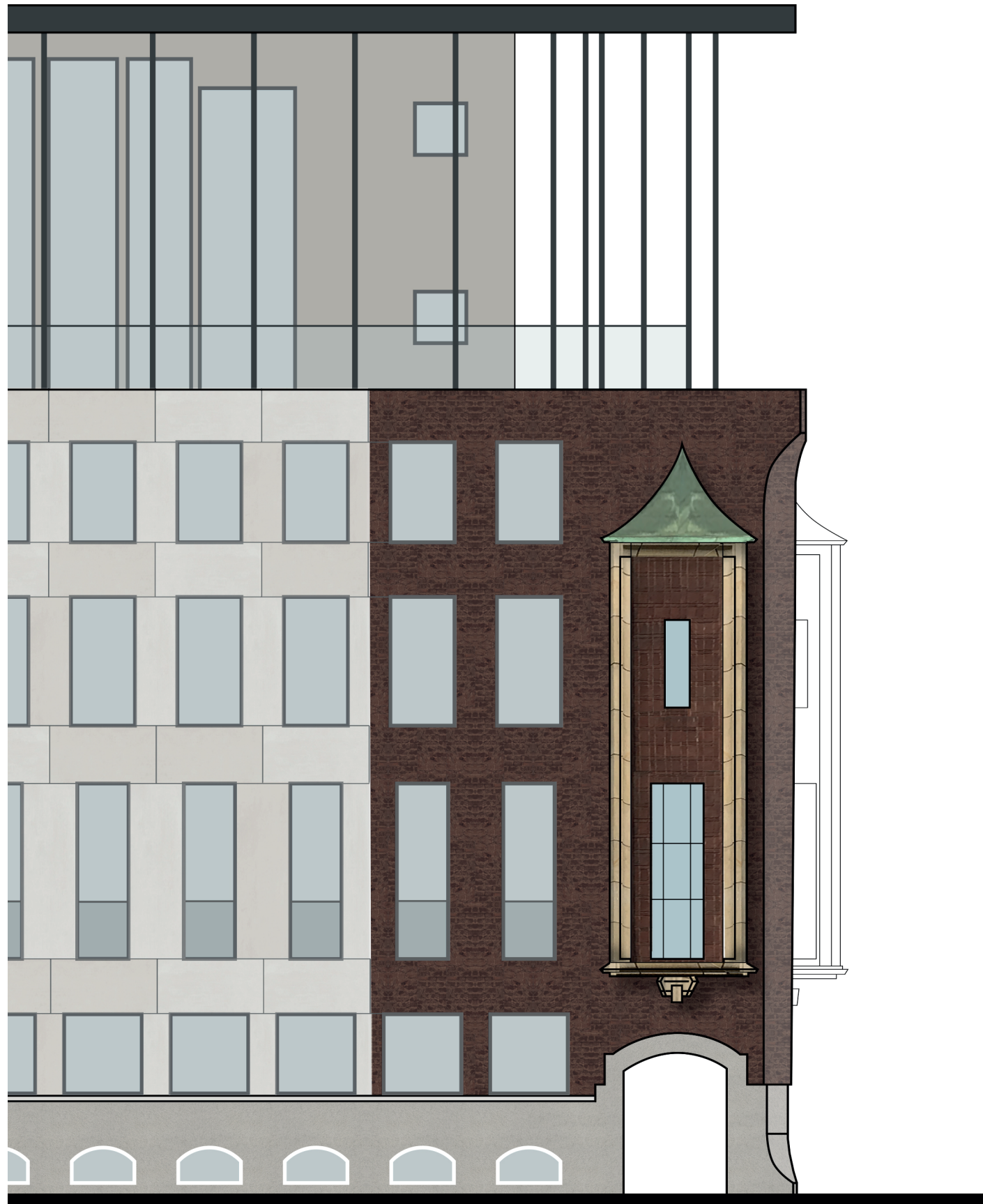
TANGIBLE LAYERING OF TIME



espresso bar TU Delft faculty of architecture

PEELED CORNER

MEETING ROOM

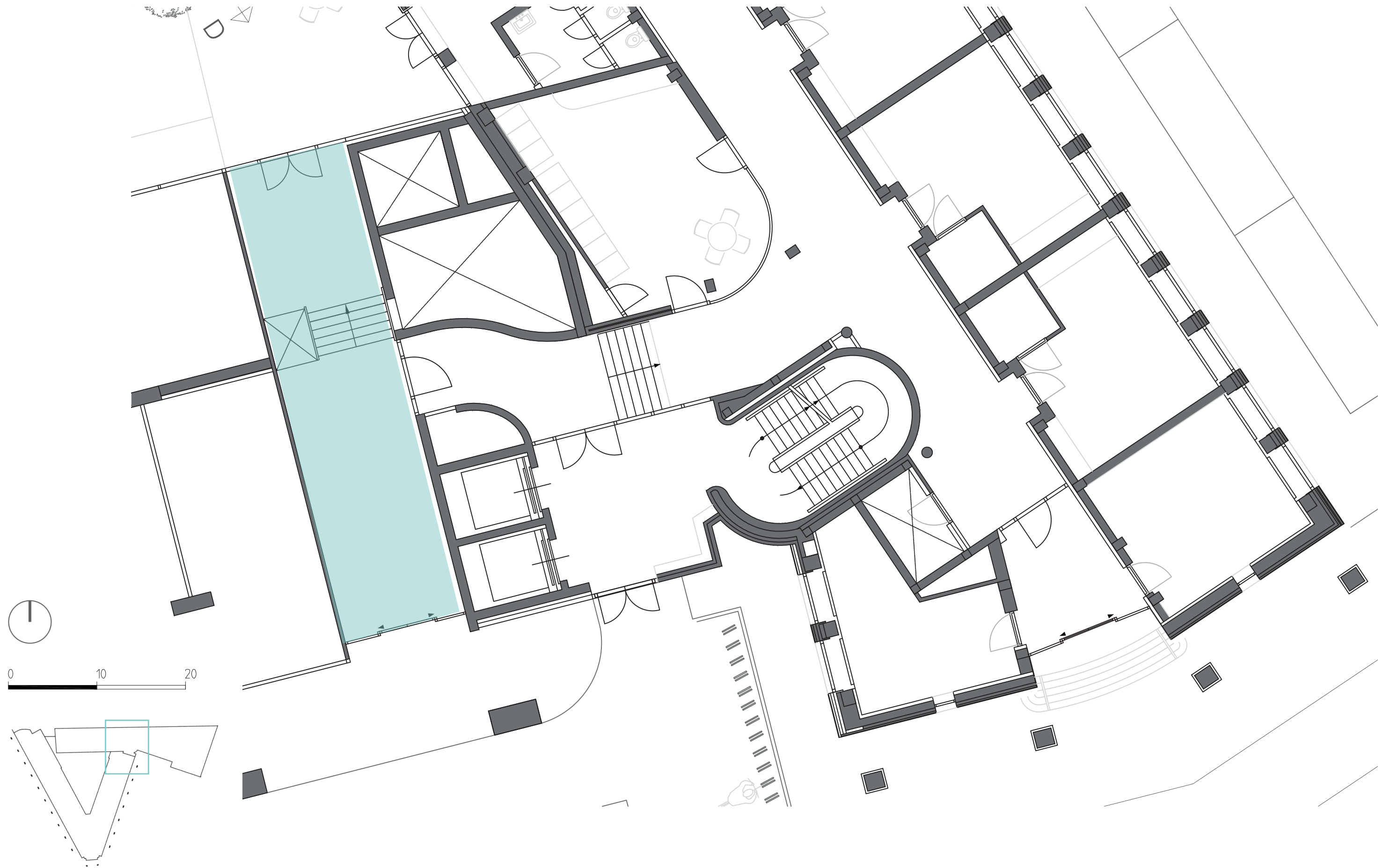


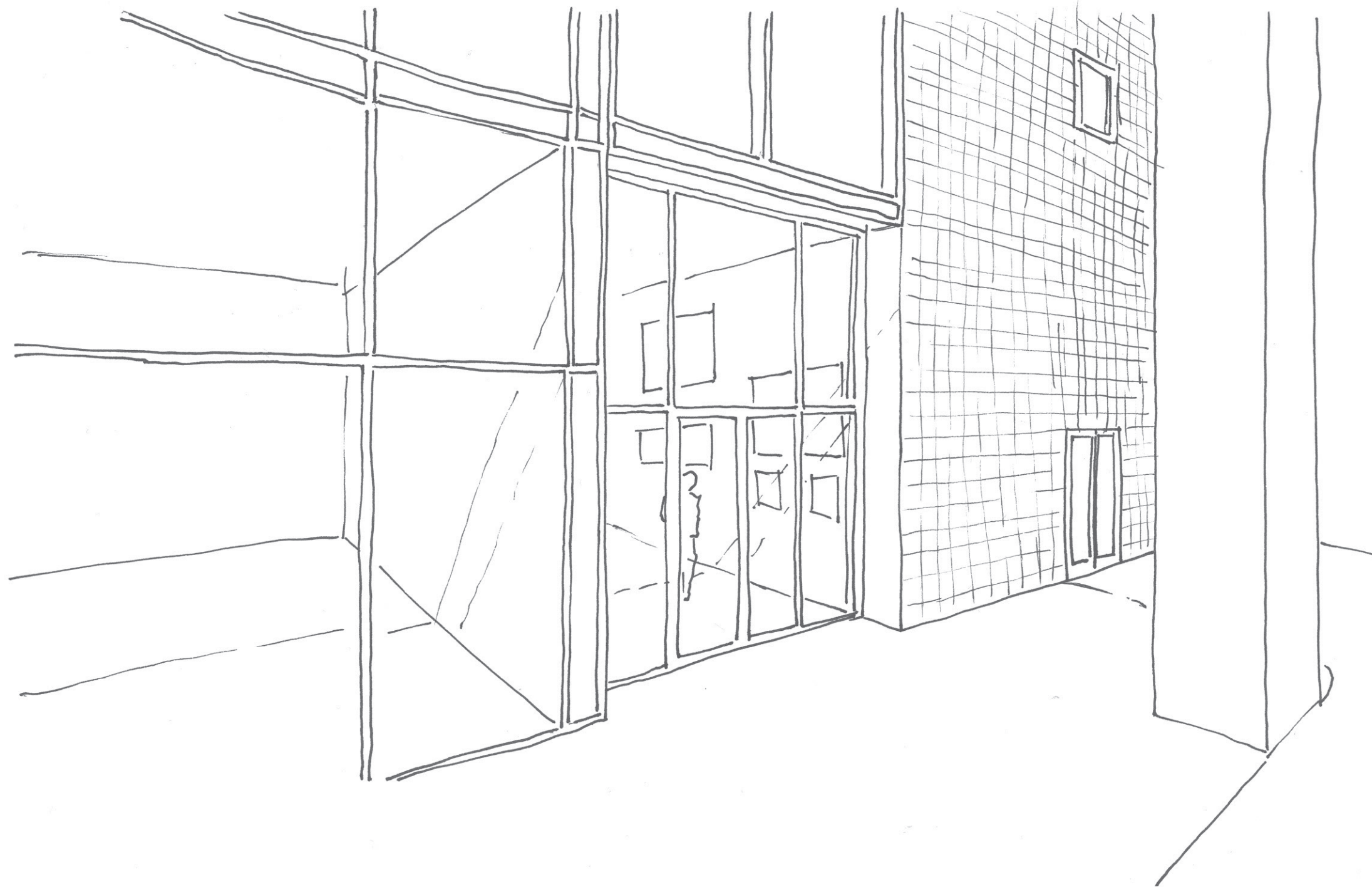
indoor patio

window further back in facade

NEW PUBLIC ROUTE

GALLERY





GALLERY

INTANGIBLE LAYERING OF TIME

artists in the city



BEFORE

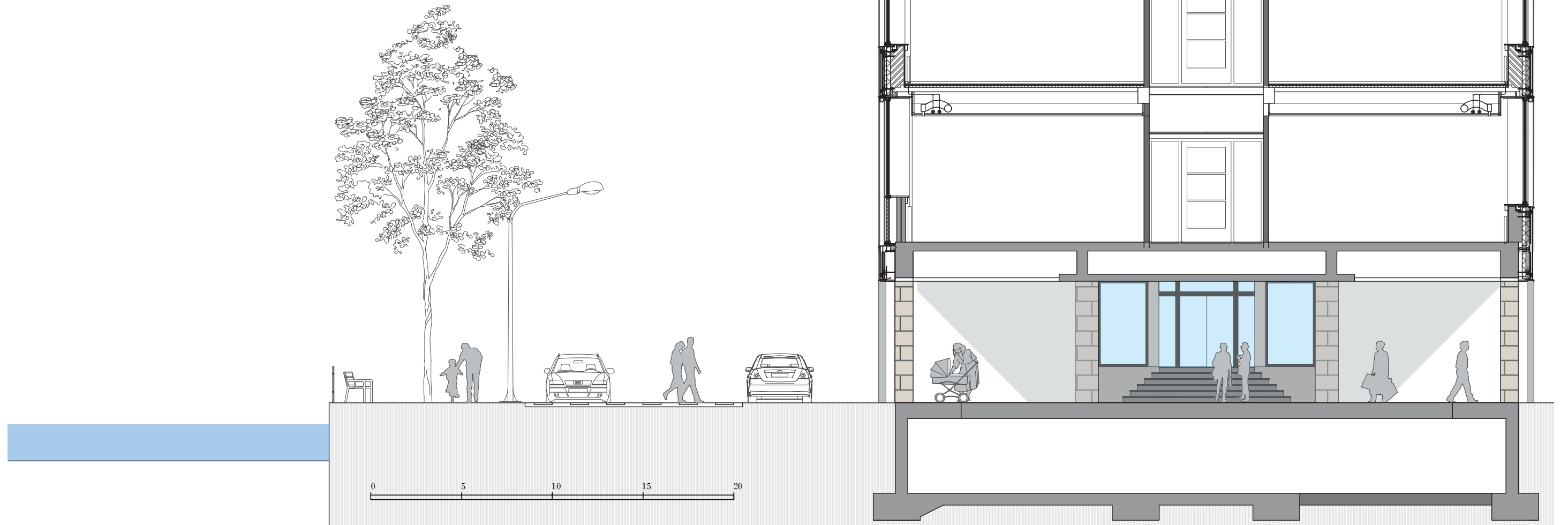
FUTURE

NOW



NEW PUBLIC ROUTE

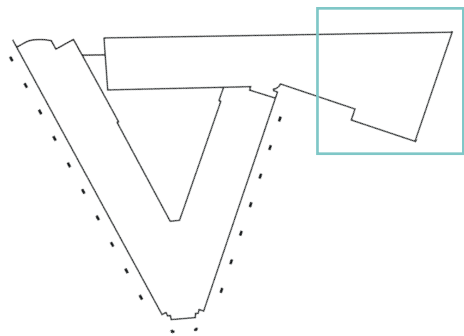
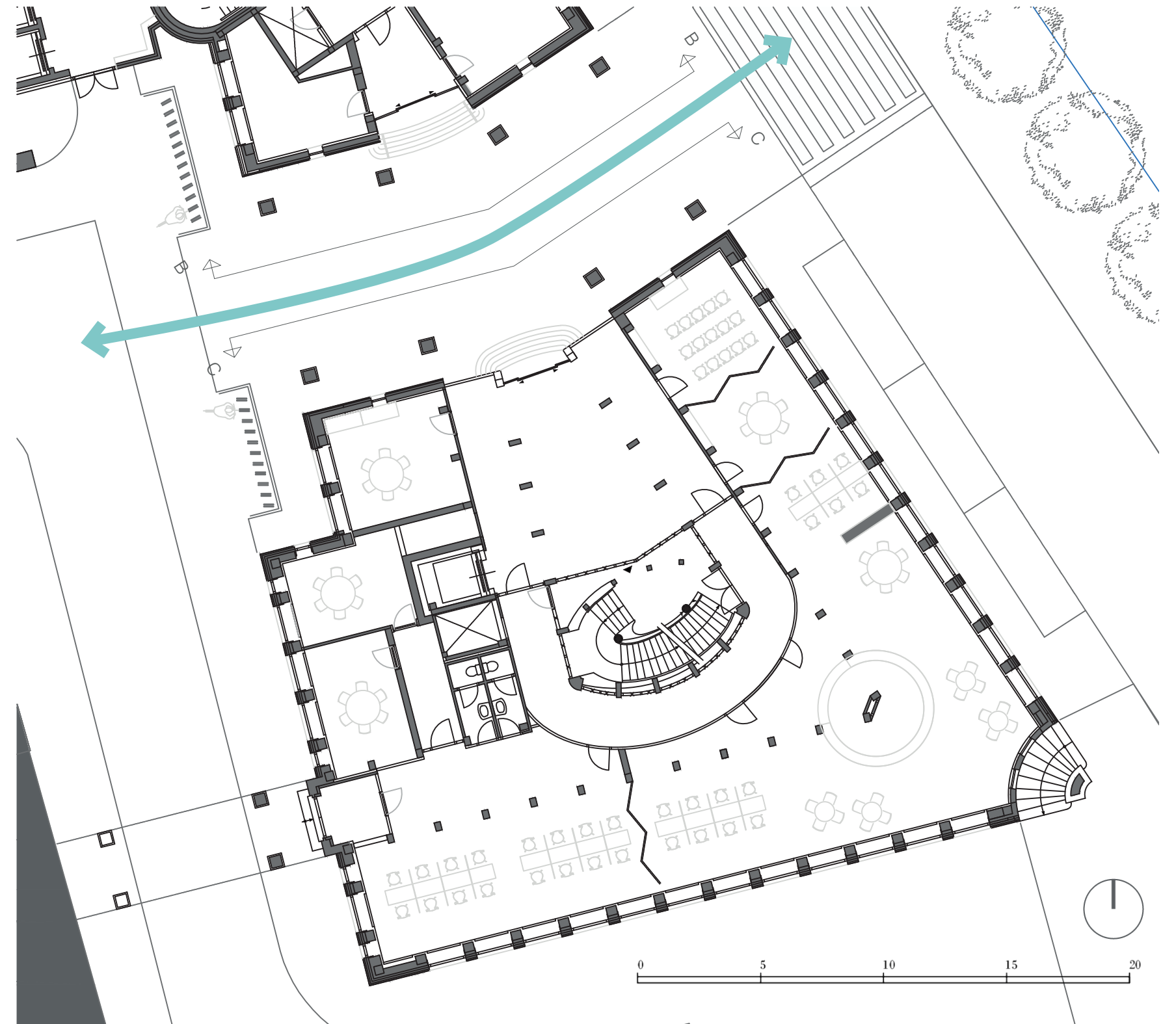
PASSAGE TO WATER
SECTION B_B



POLICE

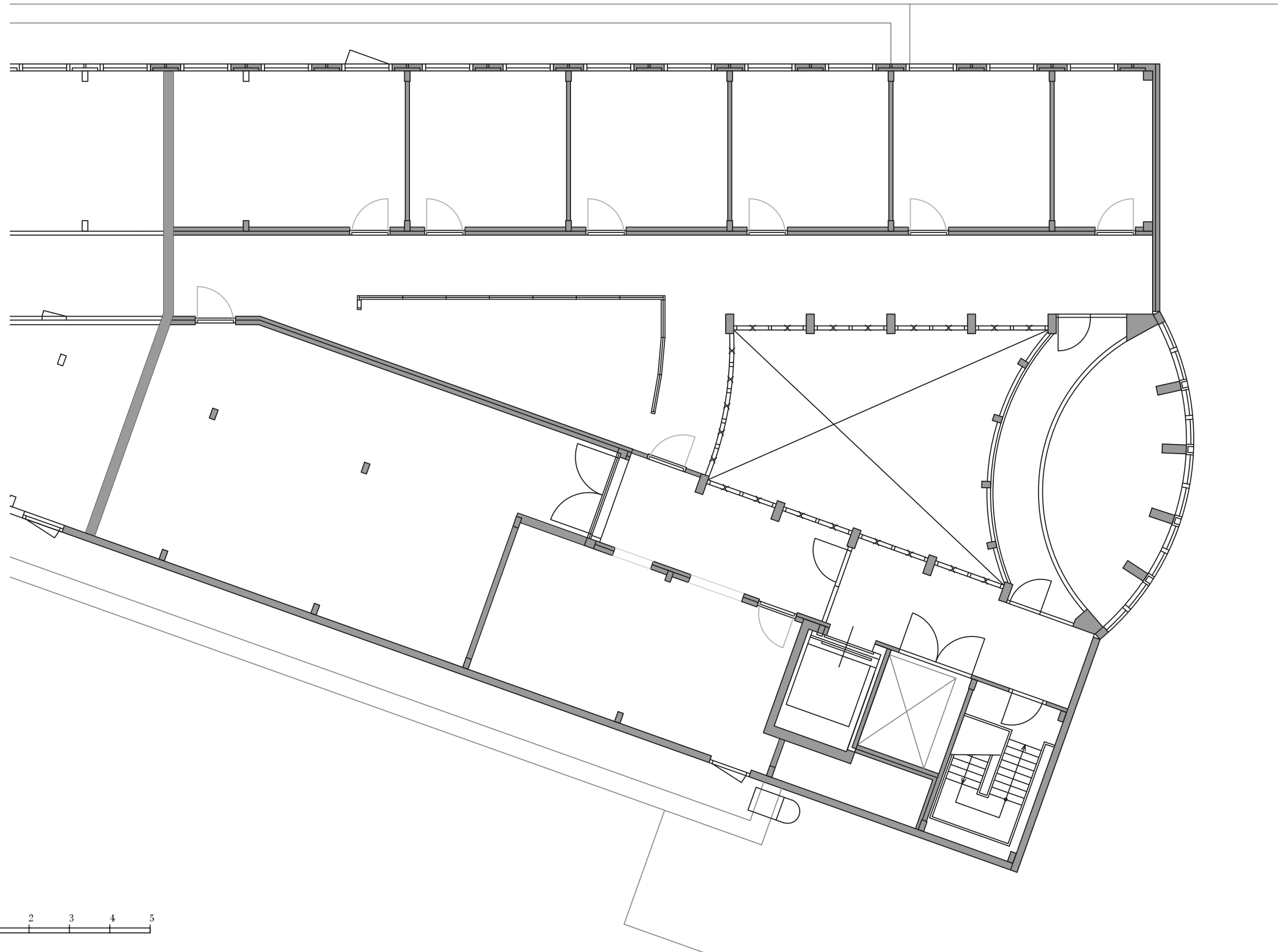
OPENING UP TO PASSAGE

- | | | |
|--------------|---|--|
| 5th floor | - | 3-4 cells (not overnight) |
| 4th floor | - | canteen, outdoor space |
| 3th floor | - | 'basis team centrum'
offices, meeting rooms |
| 2th floor | - | 'sectorleiding team opsporing centrum'
offices, meeting rooms |
| 1st floor | - | flexwork spaces, connection city hall (police) |
| ground floor | - | flexwork spaces (open to public) |



POLICE

FIFTH FLOOR



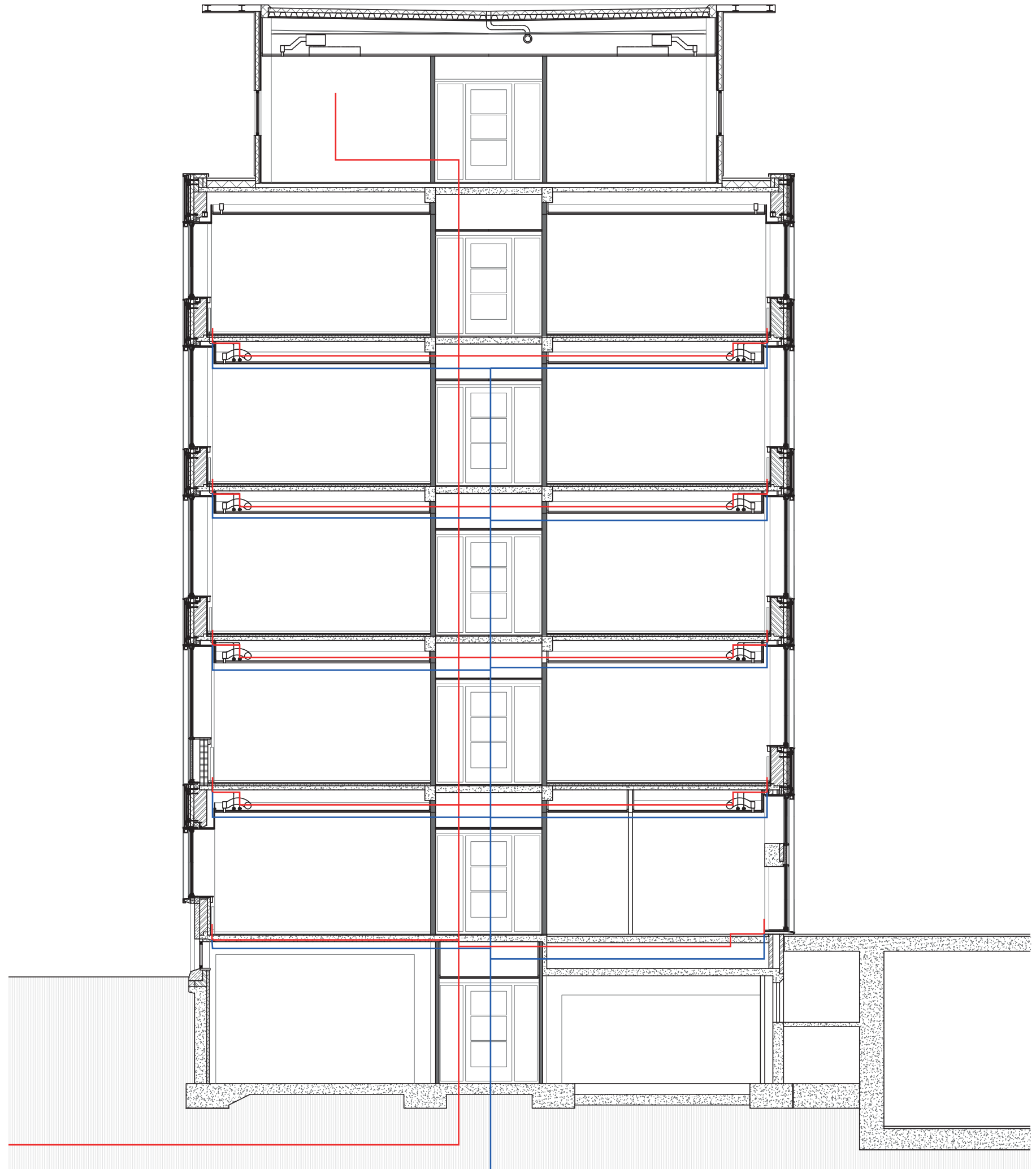
CLIMATE

HEATING

current radiators reused

already use district heating

district heating also used to pre-heat ventilation air in winter



CLIMATE

VENTILATION

winter:

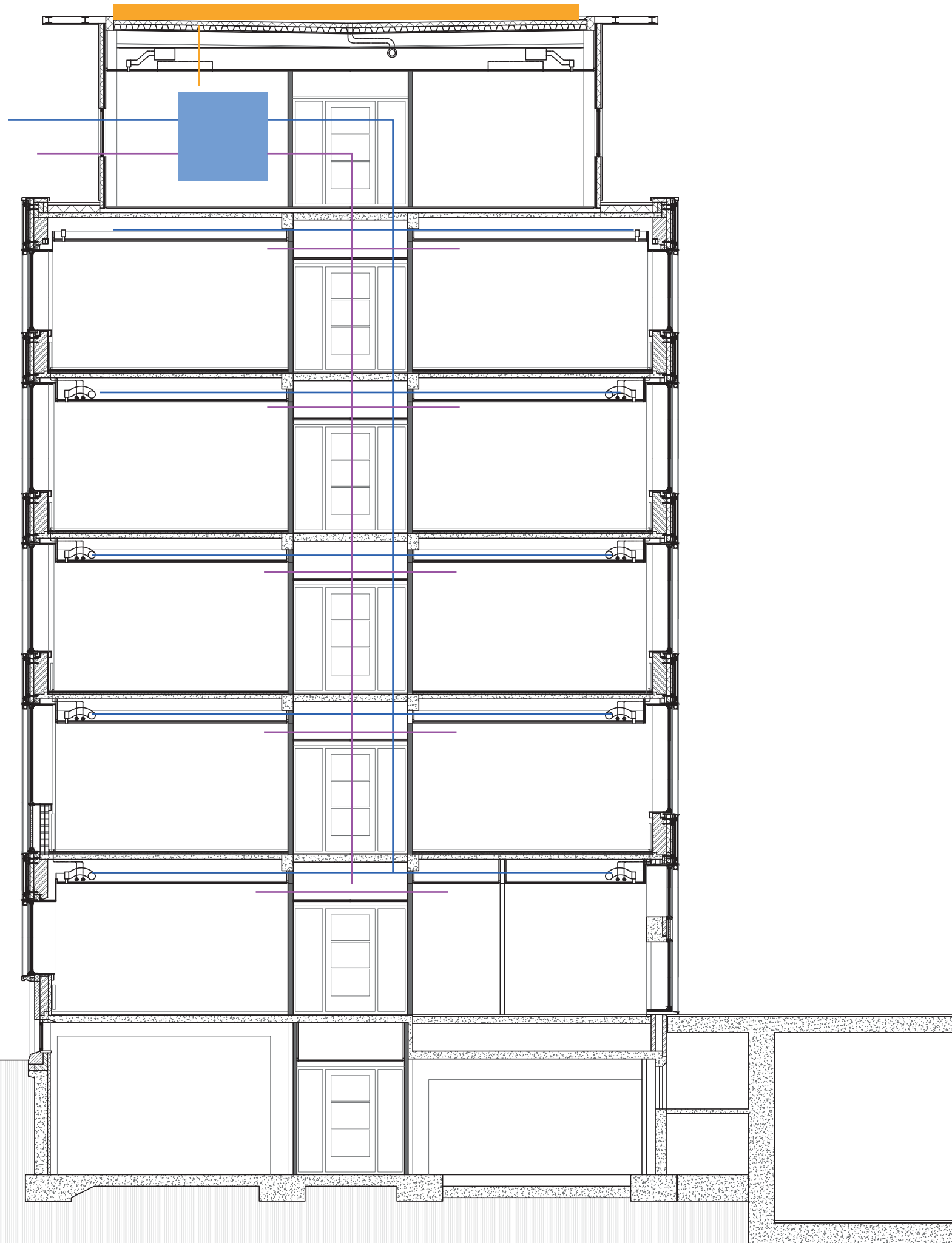
inlet air pre heated by heating from district heating

further heated mechanical, electricity from solar panels on roof used

summer:

inlet air cooled mechanical, electricity from solar panels

outlet air still cooler than outside air, used to cool the inlet air



CONCLUSION

CONNECTIONS

CONNECTING SURROUNDINGS
CITY-ROUTES

CONNECTING PEOPLE

NEW LAYER CONNECTS TO NEW DEVELOPMENTS IN THE
CITY

SIMPLIFY THE BUILDING

