



P5 PRESENTATION

“GROWING UP IN THE CITY”

GRADUATION STUDIO DUTCH HOUSING

STUDENT NAME KOEN DE VETH

STUDENT NUMBER 4087917

MAIN MENTOR THEO KUPERS

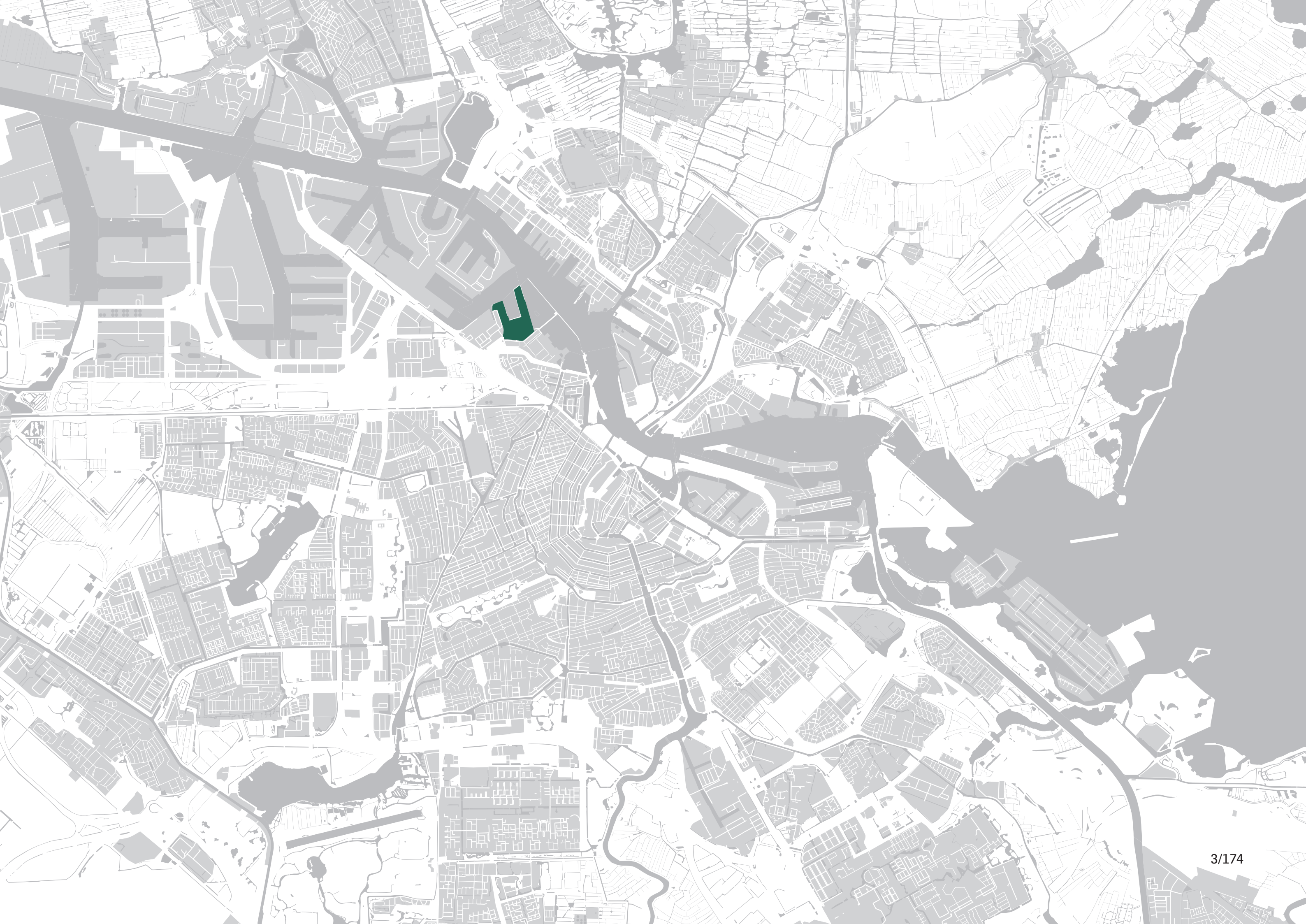
SECOND MENTOR PIERIJN VAN DER PUTT

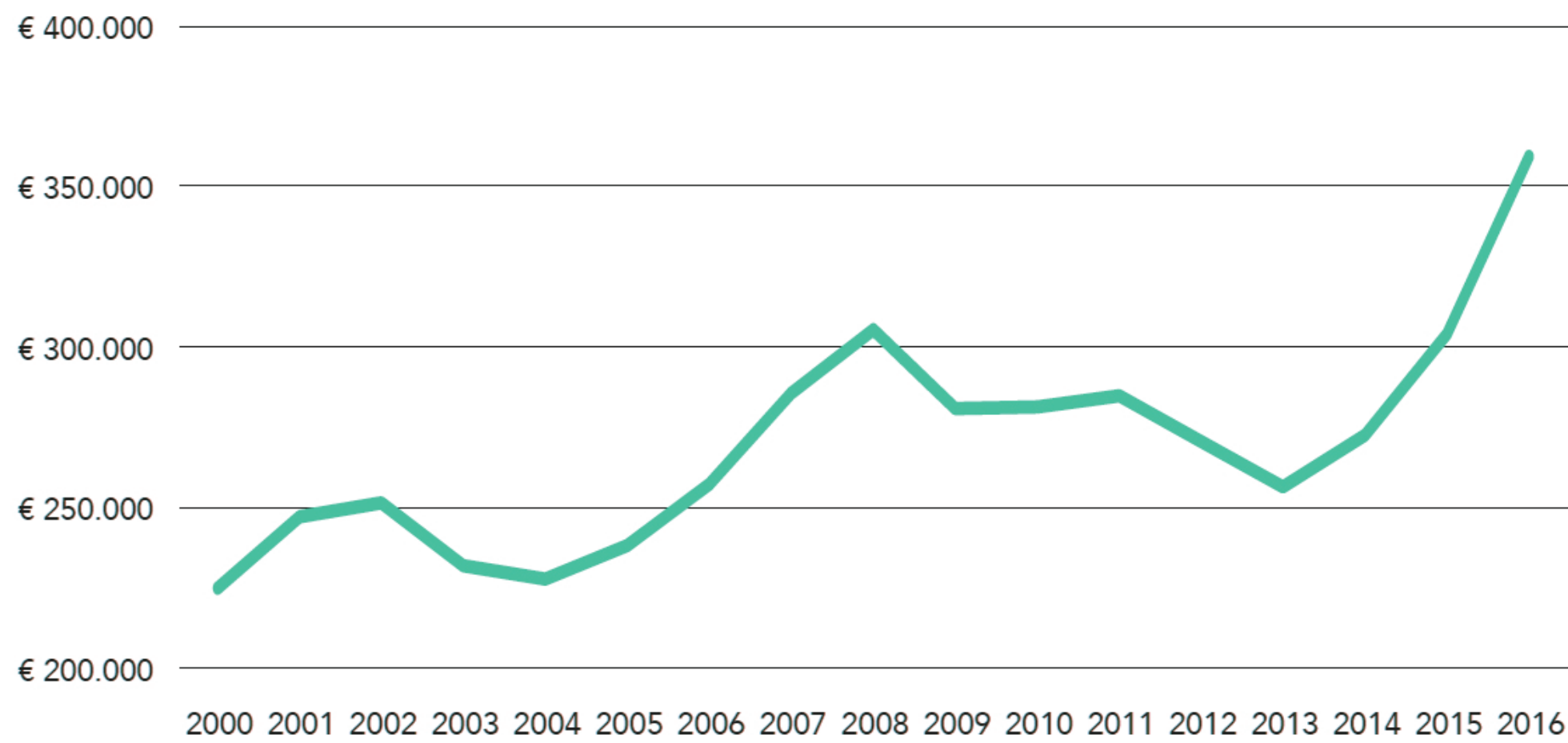
THIRD MENTOR FERRY ADEMA

BOARD OF EXAMINERS DELEGATE ANDRÉ MULDER

DATE JANUARY 22, 2021







SOURCE: CBS













Geef mij maar Amsterdam - totdat je kinderen krijgt

Gezinswoning Steeds meer jonge gezinnen verlaten Amsterdam: inmiddels trekt 40 procent naar randgemeenten. Goedkopere huizen, meer ruimte, meer rust en meer groen.

de Volkskrant

Jong gezin verruult stad vaker voor goedkopere randgemeente - vooral Amsterdammers trekken weg

Het aantal jonge gezinnen dat hun krappe woning in de grote stad inruilt voor een gezinswoning in randgemeenten neemt nog elk jaar toe, bleek maandag uit nieuwe CBS-cijfers.

Grote steden zien jonge gezinnen vertrekken

Woningmarkt De vier grote steden zien hun inwoners vertrekken naar elders in Nederland. Amsterdam groeit, maar dat komt door de expats.

Het Parool Vrij, Onverveerd

HOME **AMSTERDAM** OPIN

Gezinnen met jonge kinderen verlaten Amsterdam

Gezinnen verlaten Amsterdam, omdat ze geen huis meer kunnen vinden. Dat is slecht nieuws voor de stad, want families zijn belangrijk voor de samenhang, betrokkenheid en welvaart.





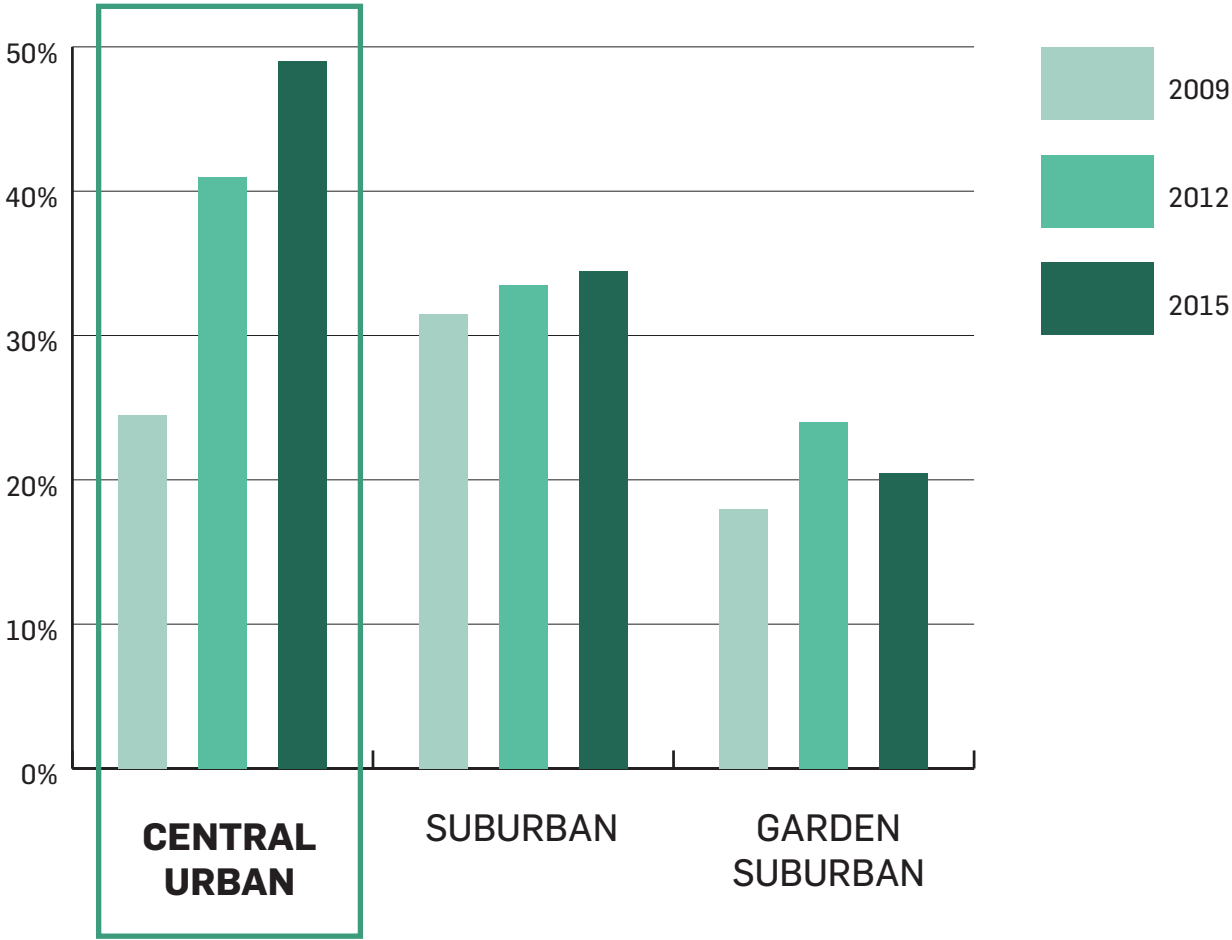
VERBODEN
RIJWIELEN
TE PLAATSEN



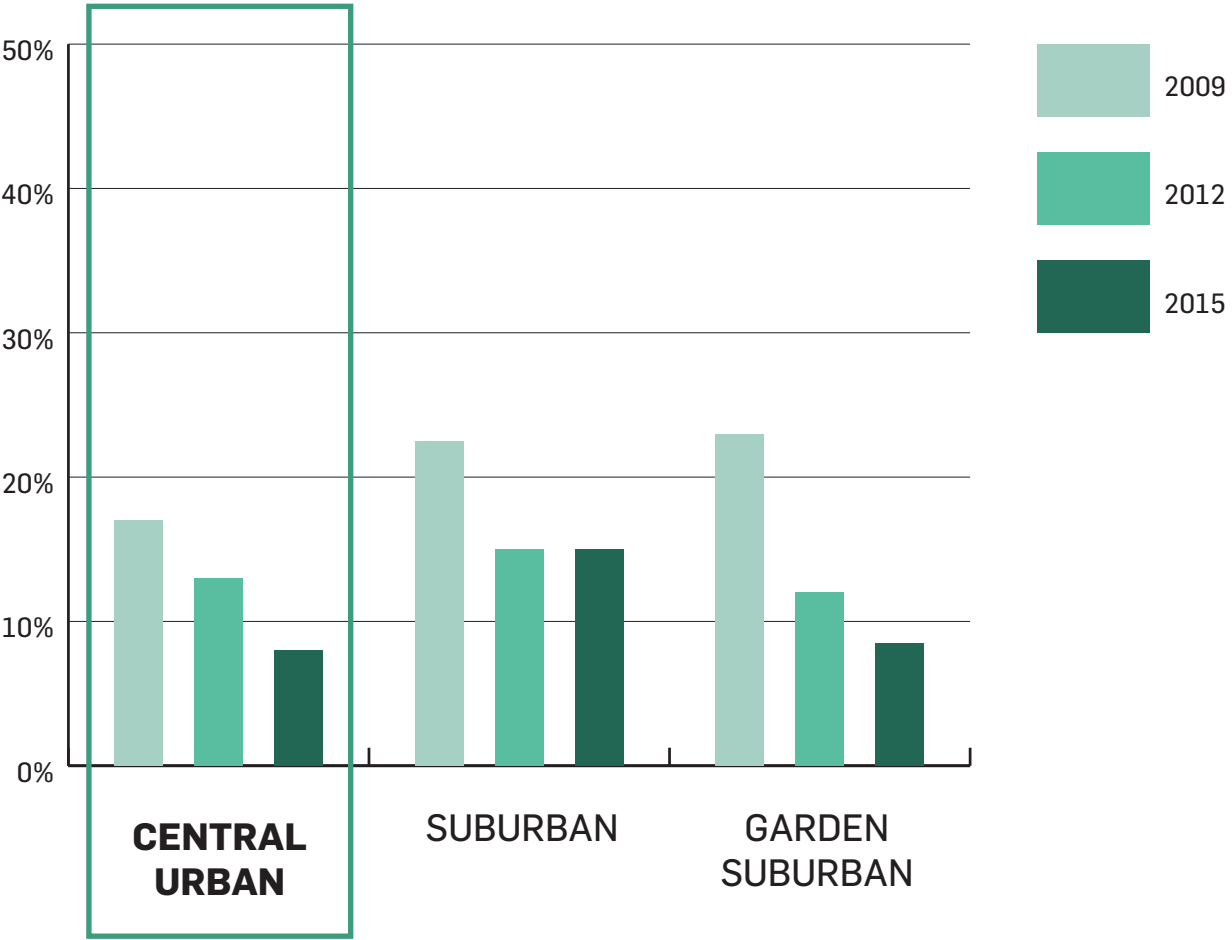


DESIRE TO MOVE OF FAMILIES BECAUSE OF...

HOME



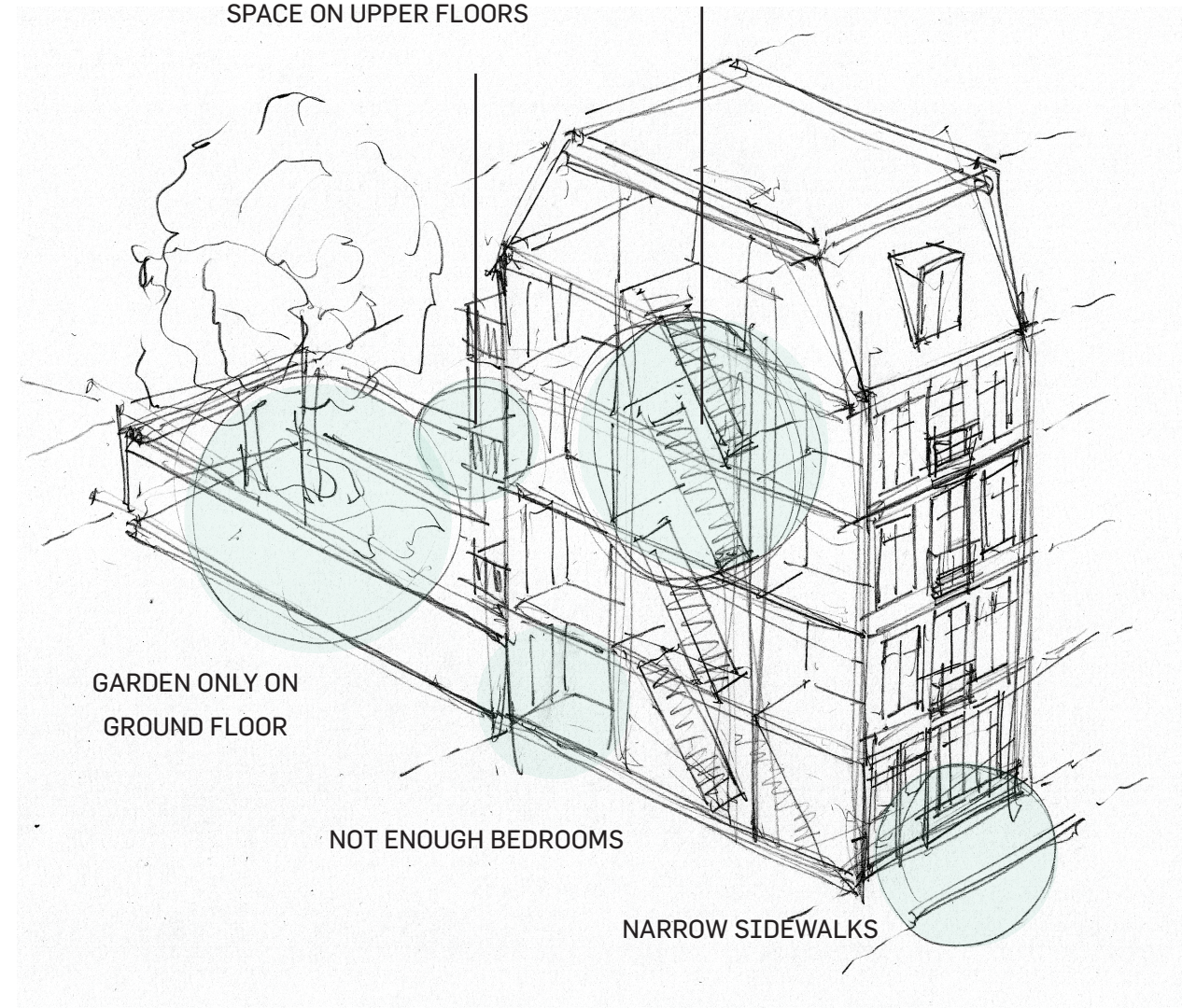
LIVING ENVIRONMENT



SOURCE: PBL

SMALL OR NO OUTDOOR
SPACE ON UPPER FLOORS

NECESSITY TO CLIMB STAIRS



GARDEN ONLY ON
GROUND FLOOR

NOT ENOUGH BEDROOMS

NARROW SIDEWALKS

STORAGE AREA

POSSIBILITY FOR
EXTRA BEDROOM

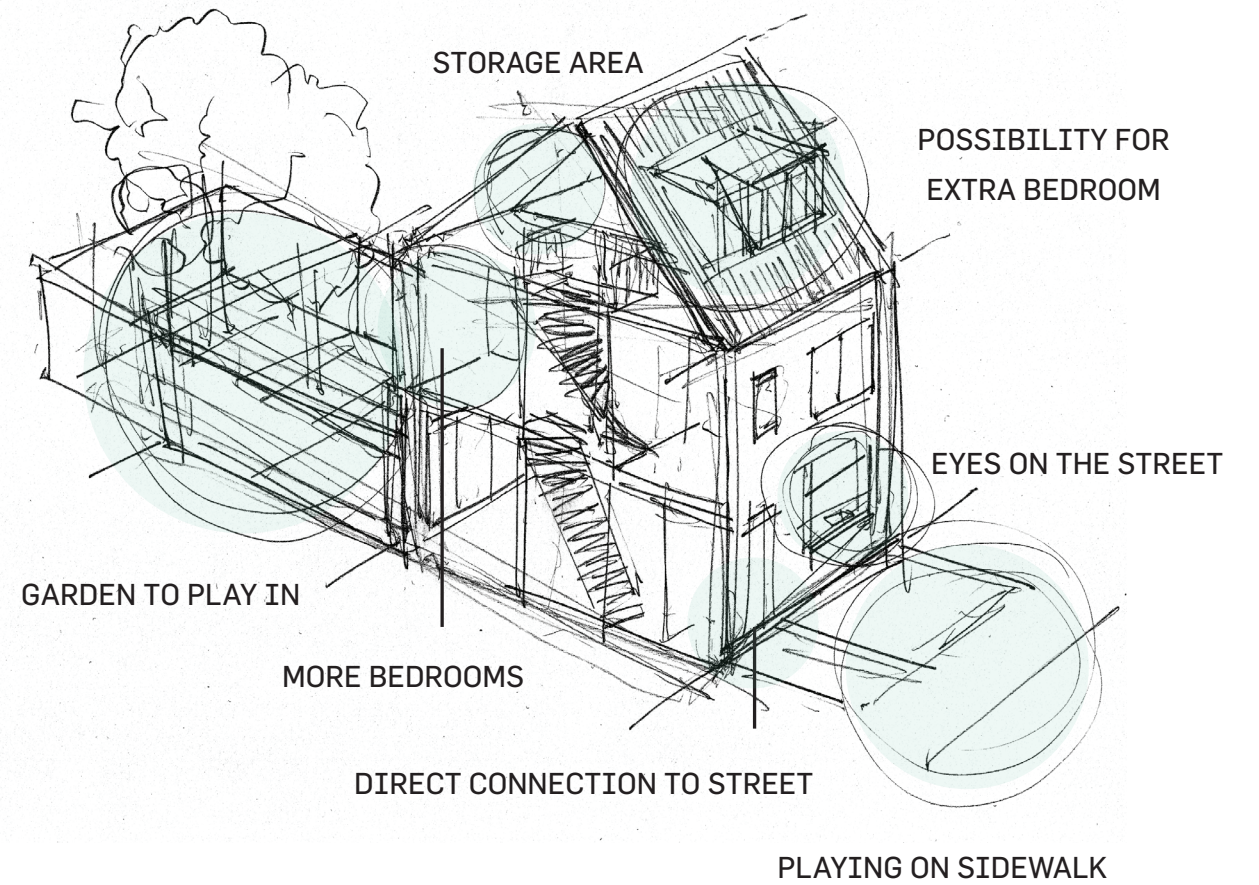
EYES ON THE STREET

GARDEN TO PLAY IN

MORE BEDROOMS

DIRECT CONNECTION TO STREET

PLAYING ON SIDEWALK





DESIRES OF FAMILIES



ENOUGH BEDROOMS



OUTDOOR SPACE TO PLAY



AMENITIES NEARBY



LOW TRAFFIC



SAFE ENVIRONMENT



SOCIAL COHESION

VALUE OF FAMILIES



LIVEABLE ENVIRONMENT



SOCIAL STRUCTURE



ECONOMICAL POWER

MORE FAMILY HOUSING

BUT HOW?



HIGHER DENSITY SUITABLE FOR FAMILIES

IN AN ALTERNATIVE BUILDING FORM

HIGH-RISE

WHY **HIGH-RISE?**



HIGHER DENSITY



WALKABLE CITY



FITS LOCATION



ADDED QUALITIES

HOW CAN FAMILIES BE HOUSED IN A HIGH-RISE BUILDING IN AMSTERDAM?

HOW TO CREATE A SUITABLE ENVIRONMENT
FOR CHILDREN IN A DENSE AND ACTIVE CITY?



PRINCIPLES



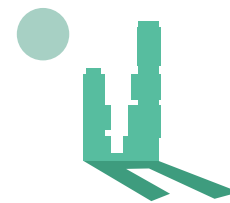
HIGH DENSITY



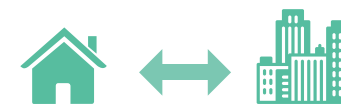
VARIETY IN FLOOR PLANS



VIEWS



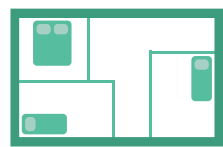
NATURAL (SUN)LIGHT



CONNECTION TO CITY



(SEMI)PUBLIC FUNCTIONS



TPOLOGY FOR FAMILIES



OUTDOOR SPACE



PRIVACY



SAFETY



MULTIFUNCTIONAL



ADAPTABLE & FLEXIBLE

FAMILIES



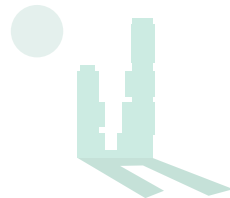
HIGH DENSITY



VARIETY IN FLOOR PLANS



VIEWS



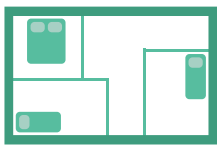
NATURAL (SUN)LIGHT



CONNECTION TO CITY



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OUTDOOR SPACE



PRIVACY



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ADAPTABLE & FLEXIBLE

HIGH-RISE



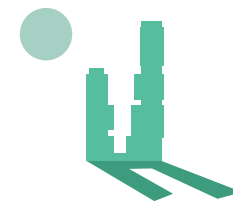
HIGH DENSITY



VARIETY IN FLOOR PLANS



VIEWS



NATURAL (SUN)LIGHT



CONNECTION TO CITY



(SEMI)PUBLIC FUNCTIONS



TPOLOGY FOR FAMILIES



OUTDOOR SPACE



PRIVACY



SAFETY



MULTIFUNCTIONAL



ADAPTABLE & FLEXIBLE

THE CITY



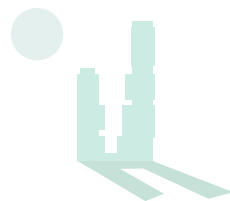
HIGH DENSITY



VARIETY IN FLOOR PLANS



VIEWS



NATURAL (SUN)LIGHT



CONNECTION TO CITY



(SEMI)PUBLIC FUNCTIONS



TPOLOGY FOR FAMILIES



OUTDOOR SPACE



PRIVACY



SAFETY

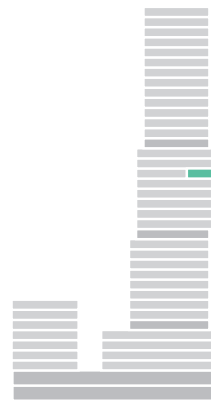


MULTIFUNCTIONAL



ADAPTABLE & FLEXIBLE

CONCEPT



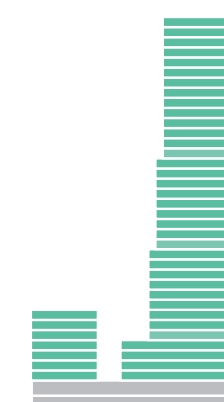
DWELLING



STREET

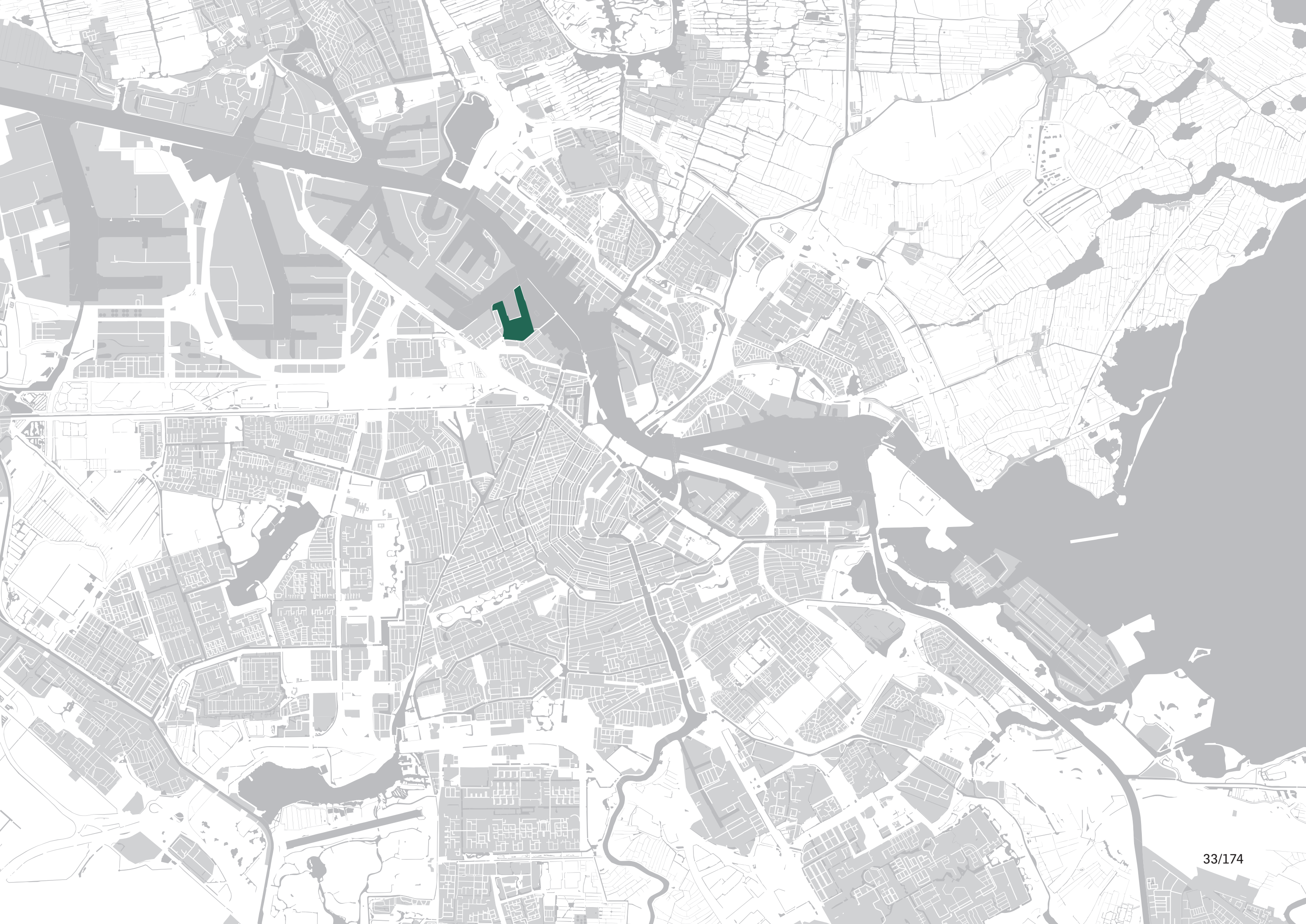


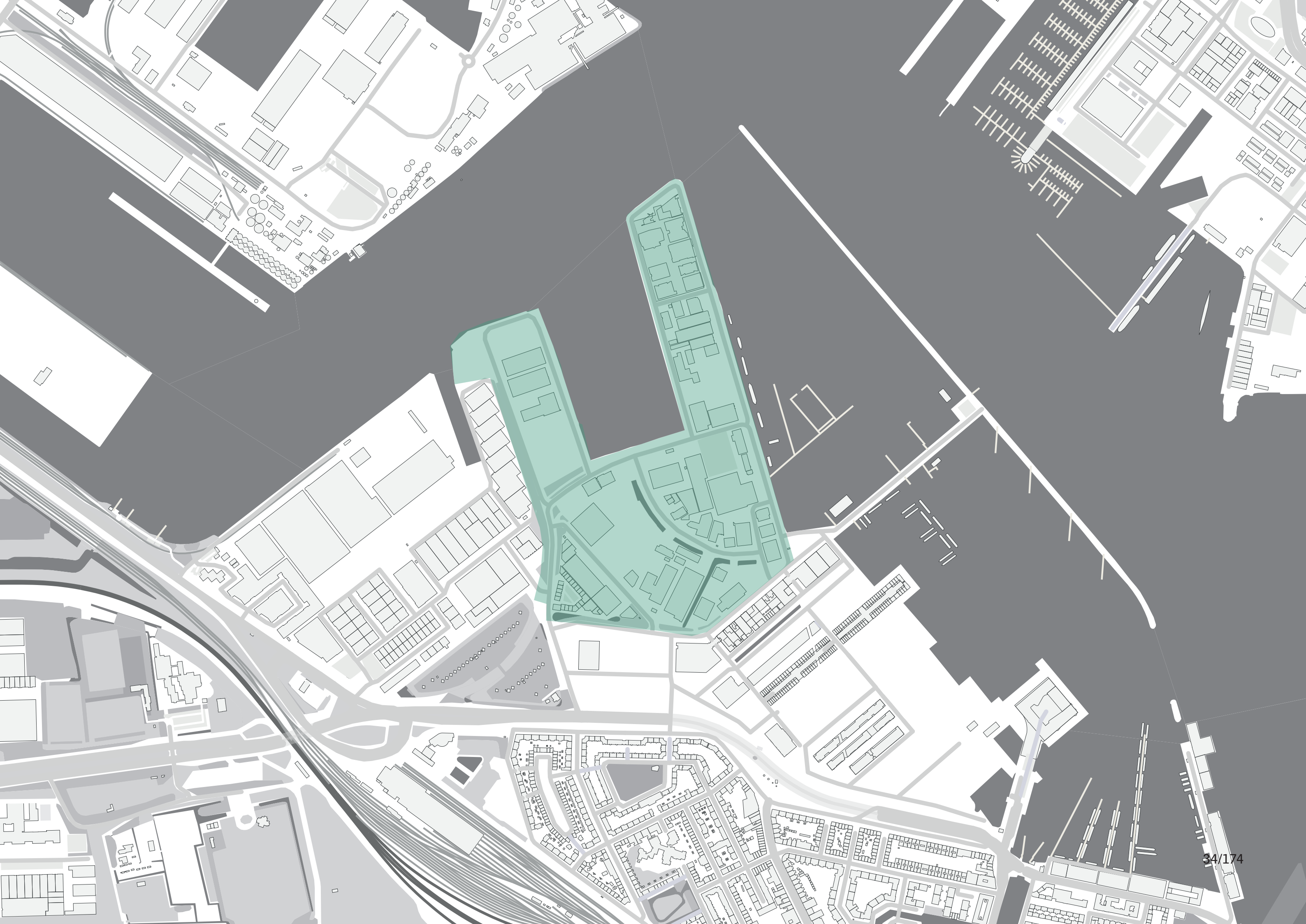
BLOCK



NEIGHBOURHOOD





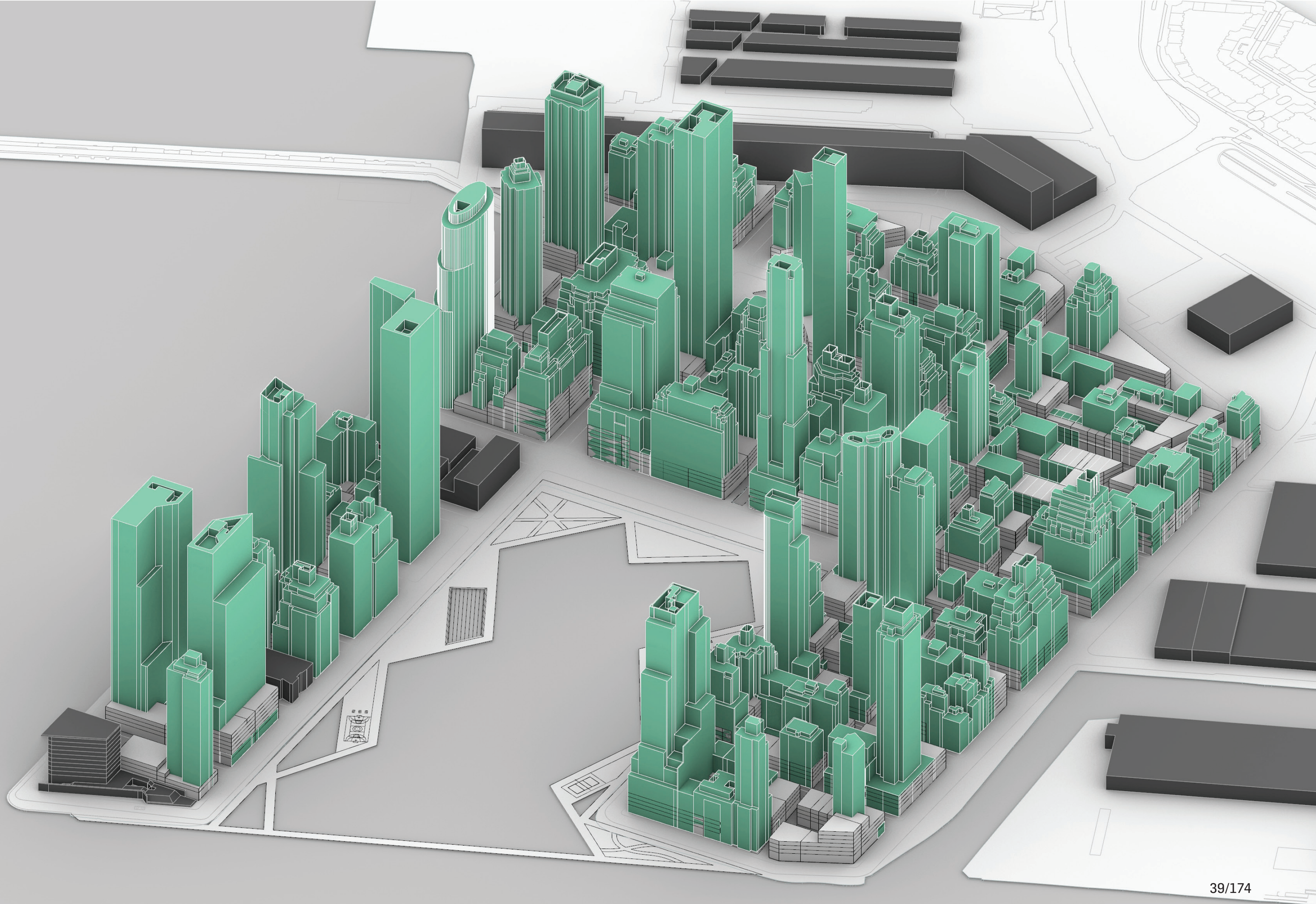






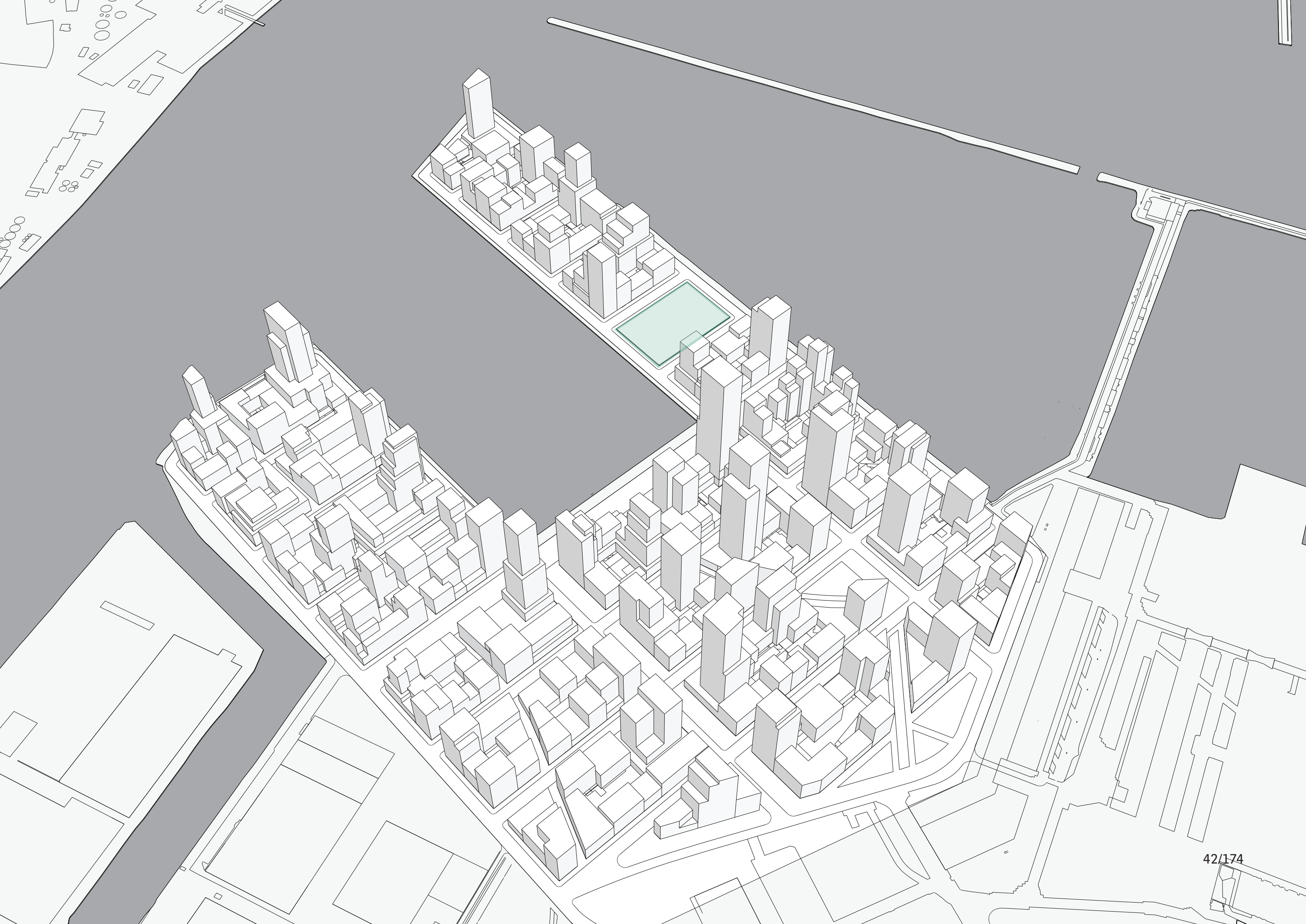


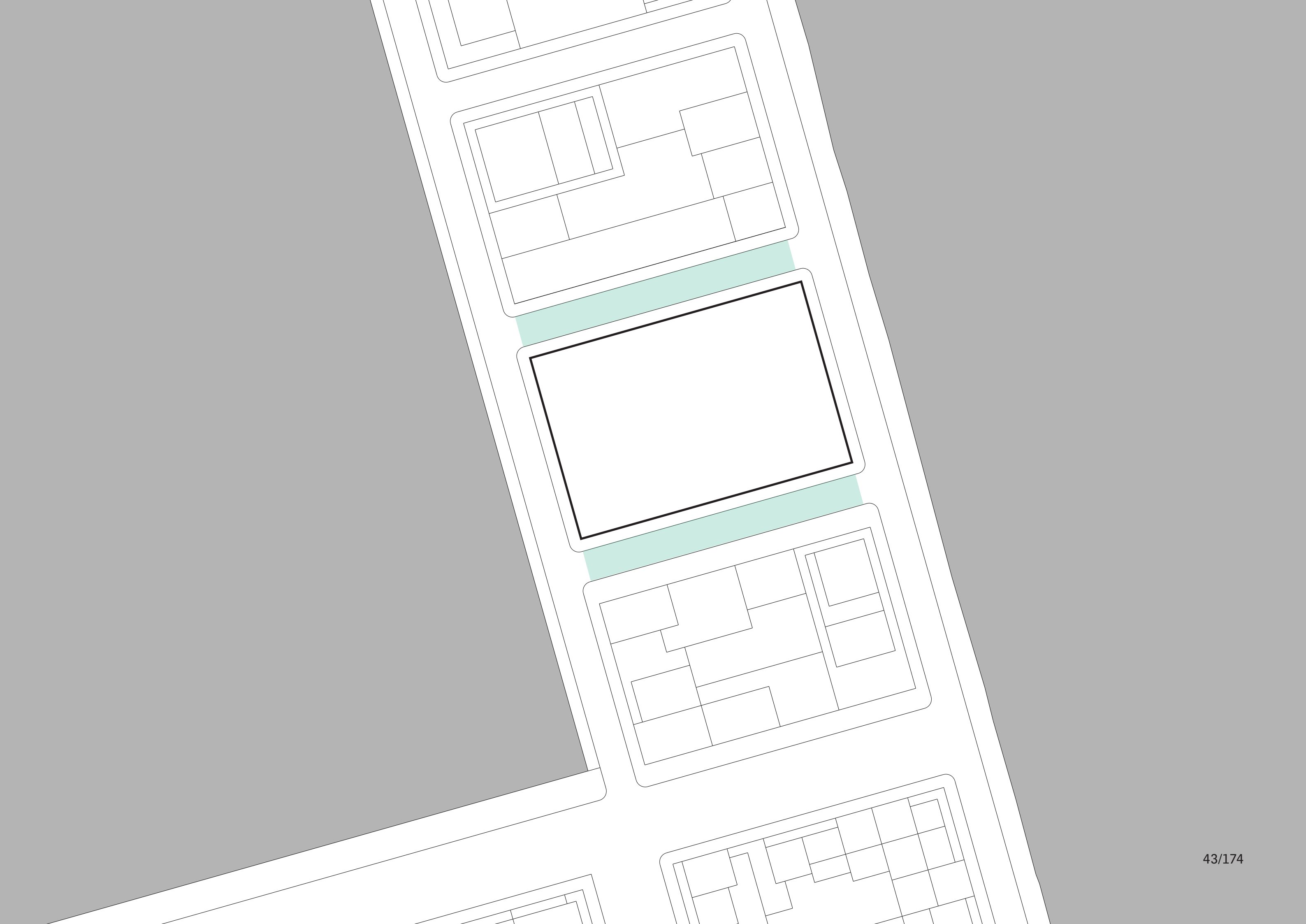


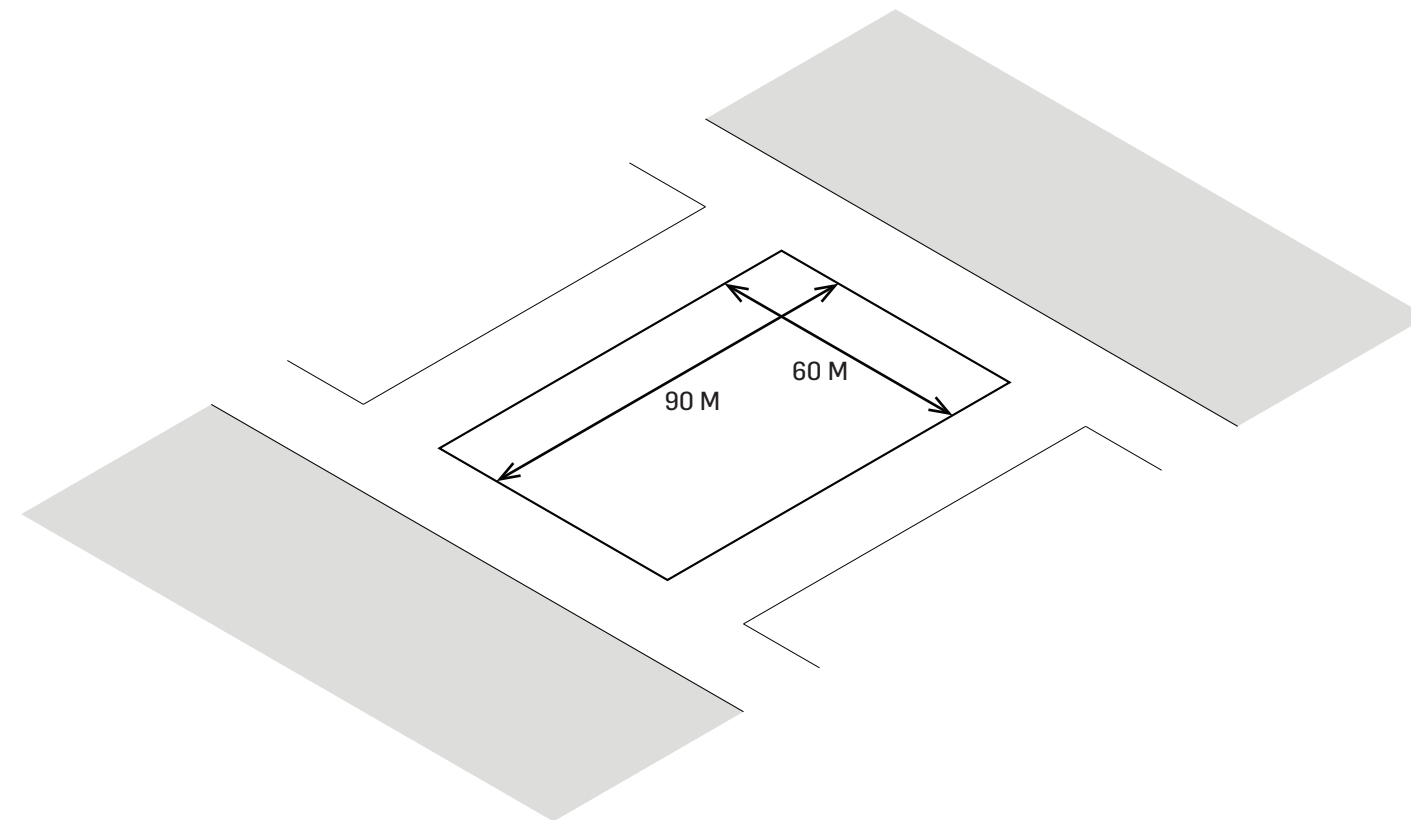


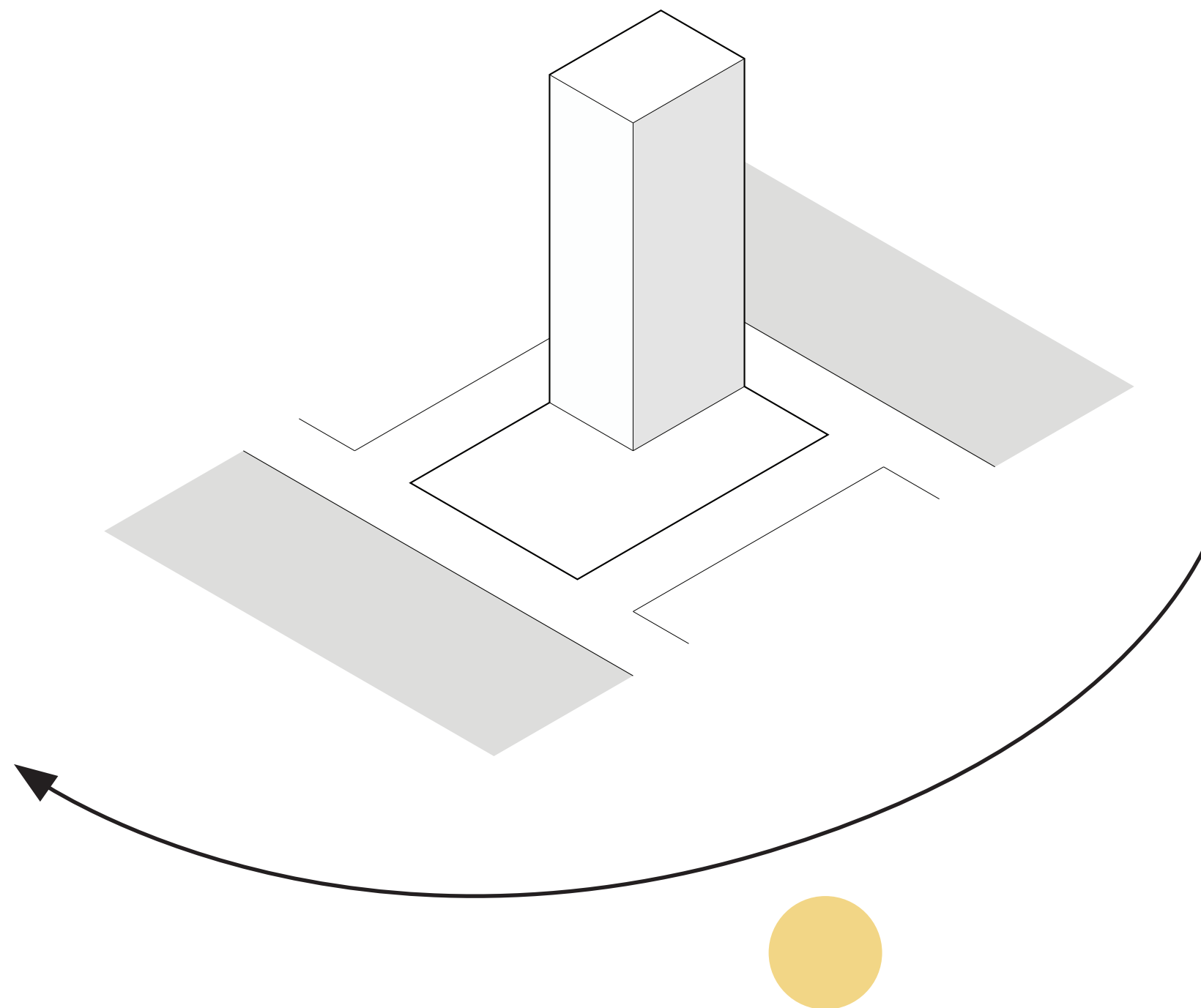


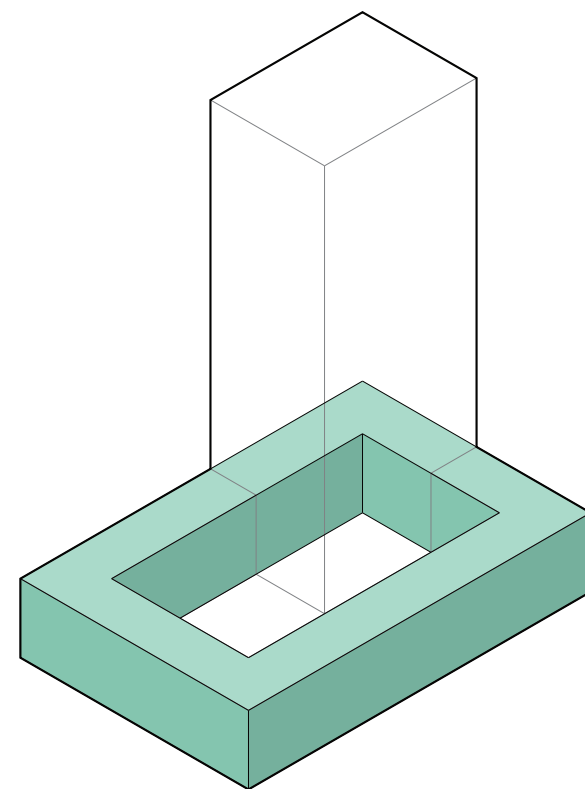


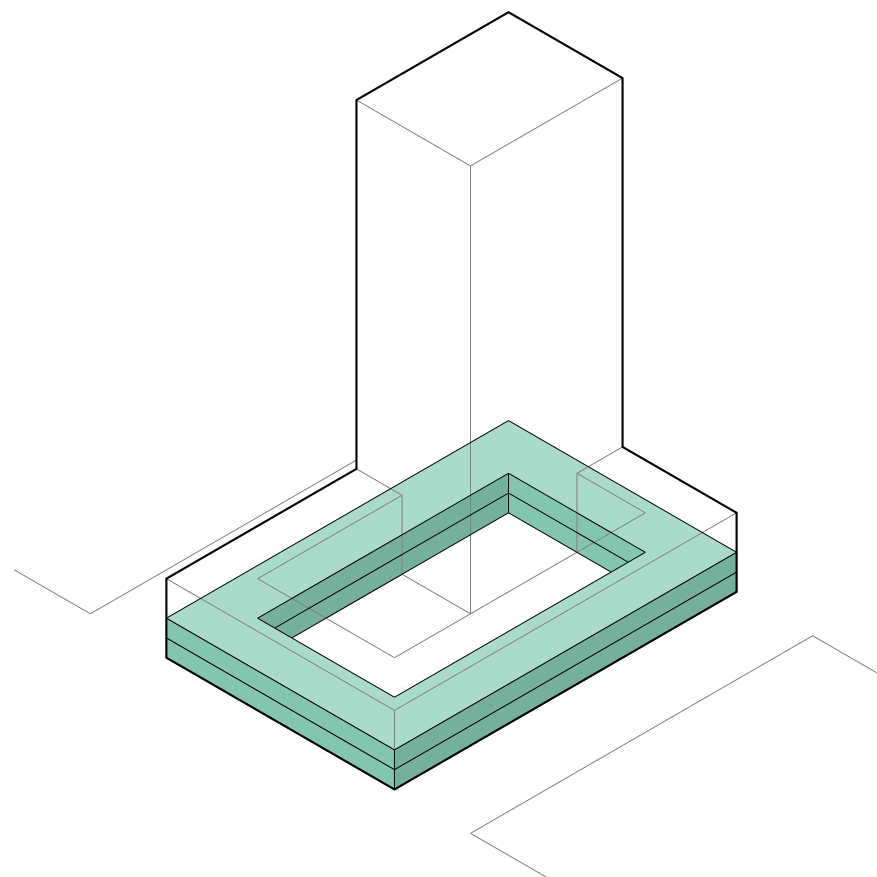


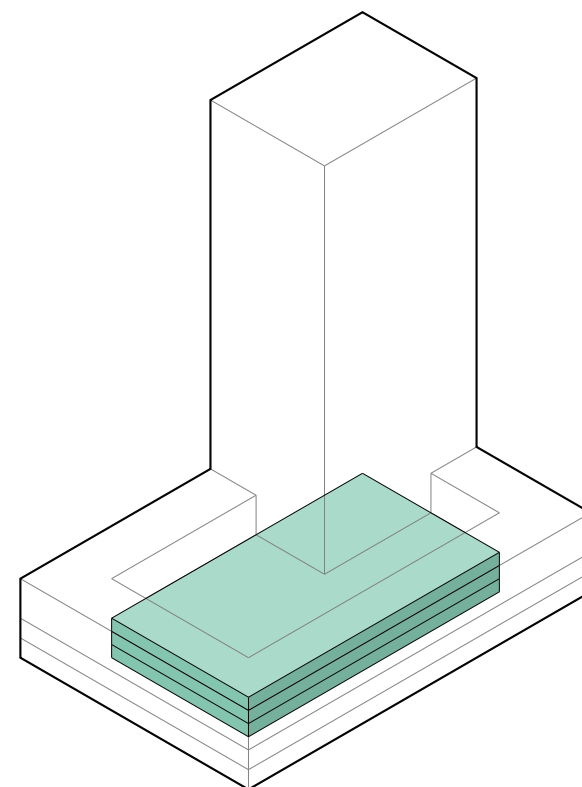


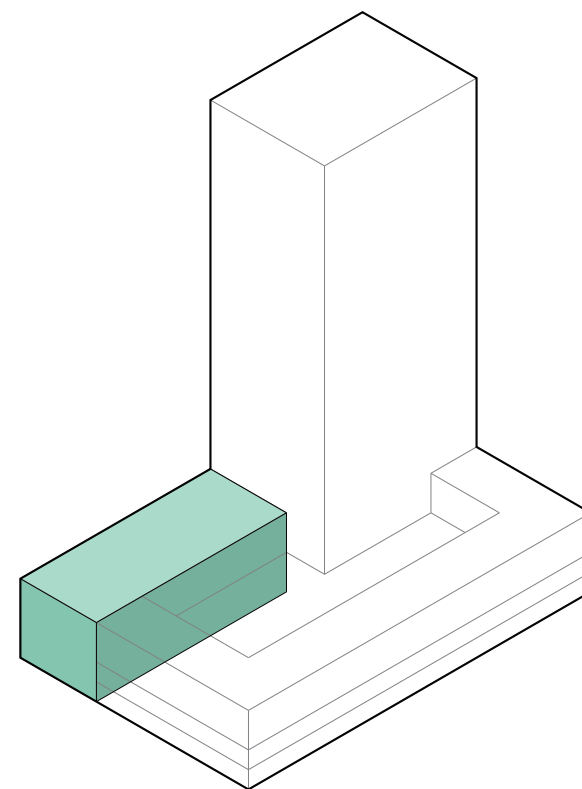


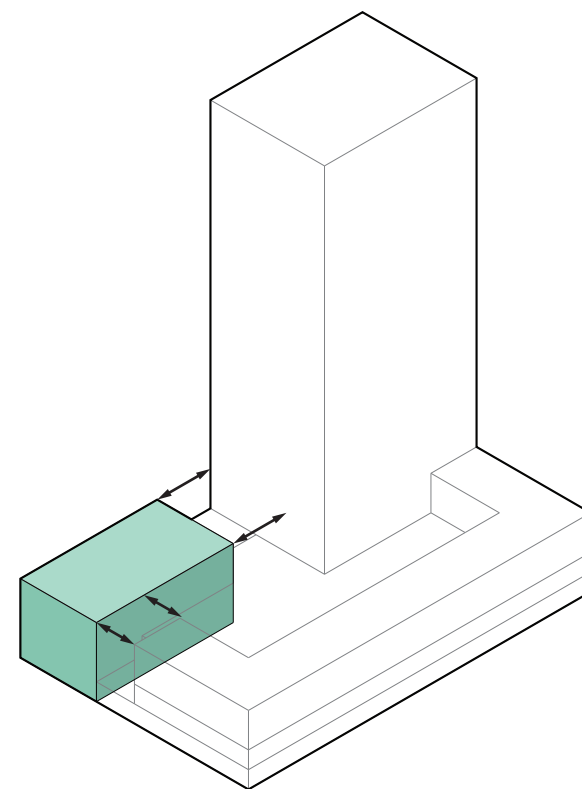


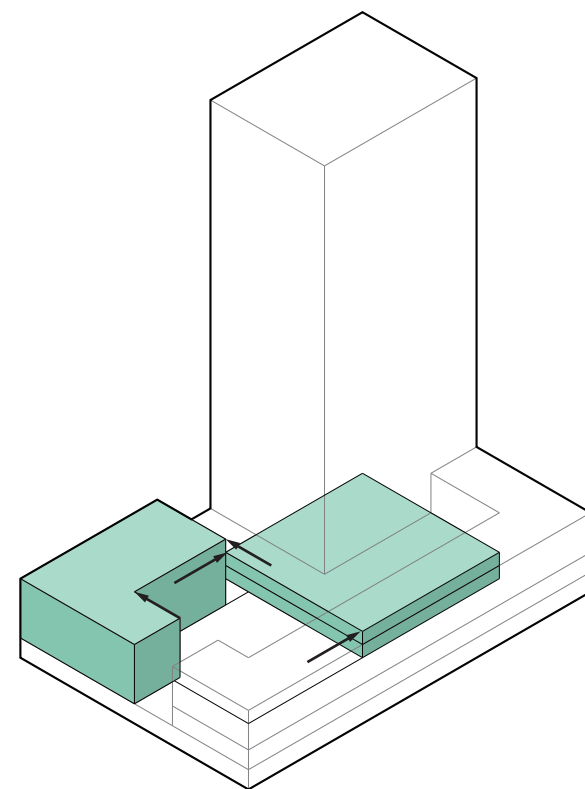


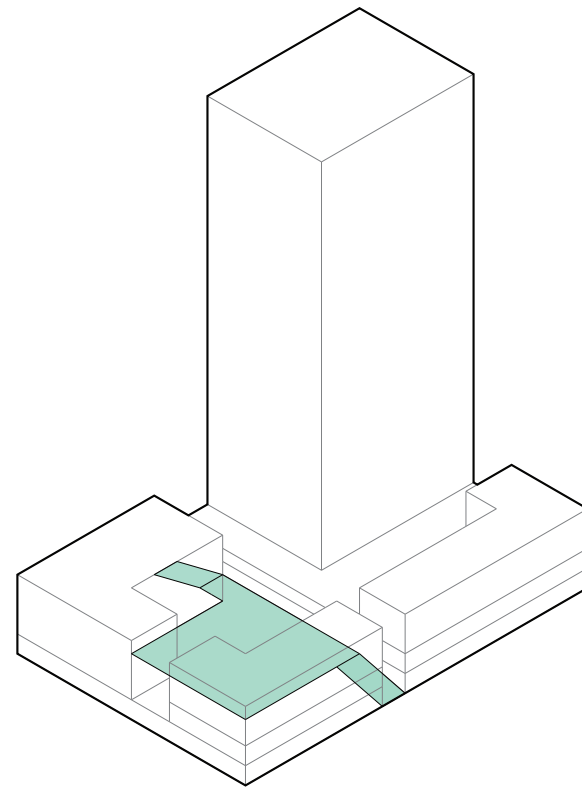


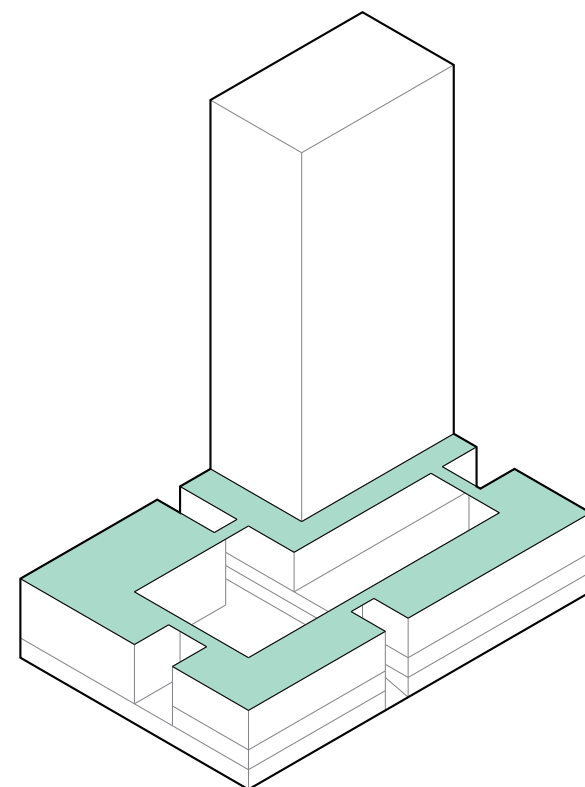


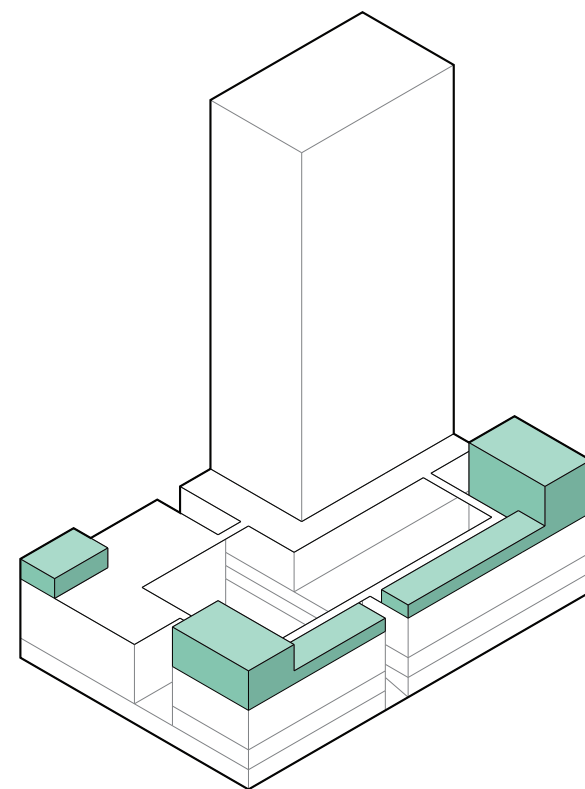


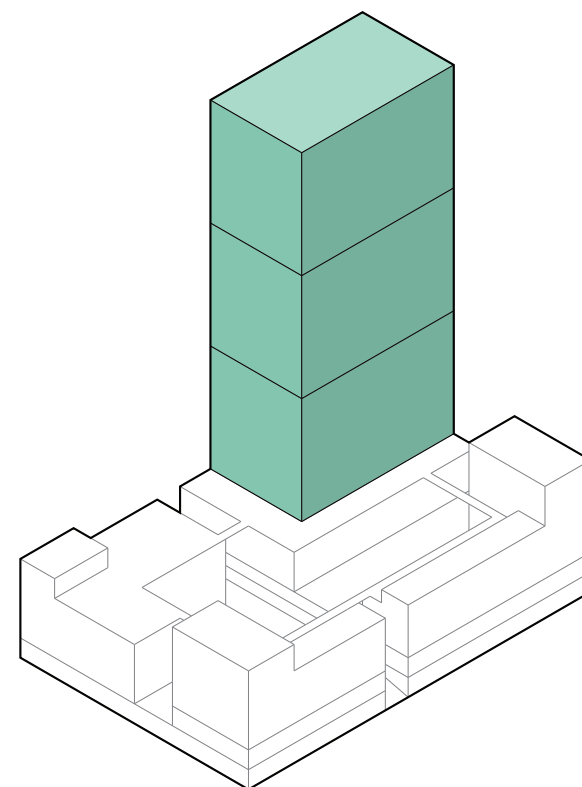


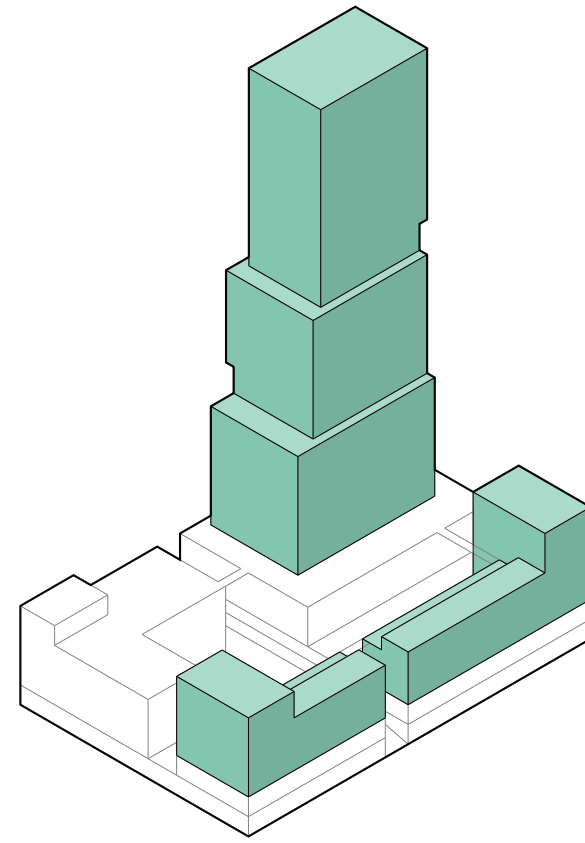


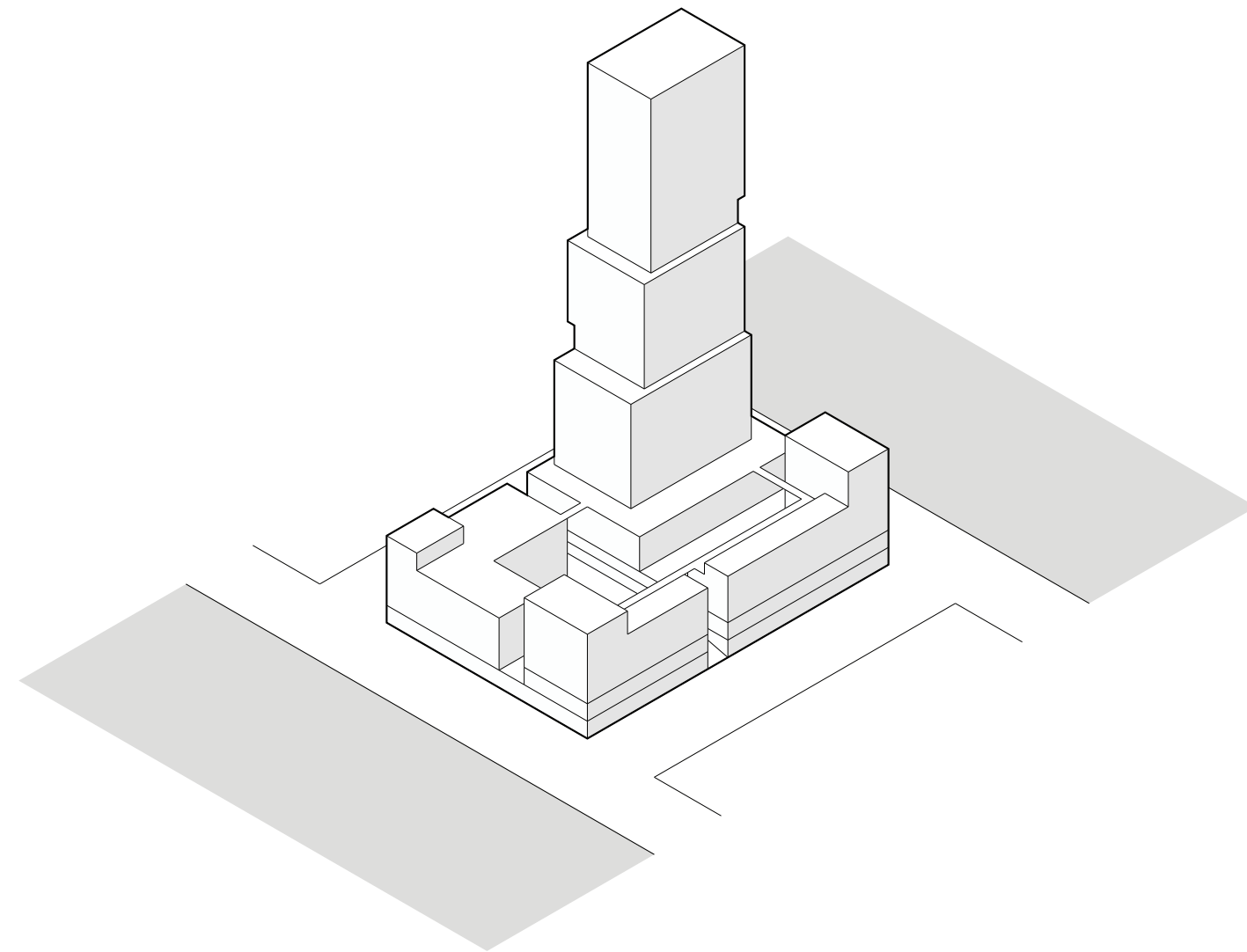
















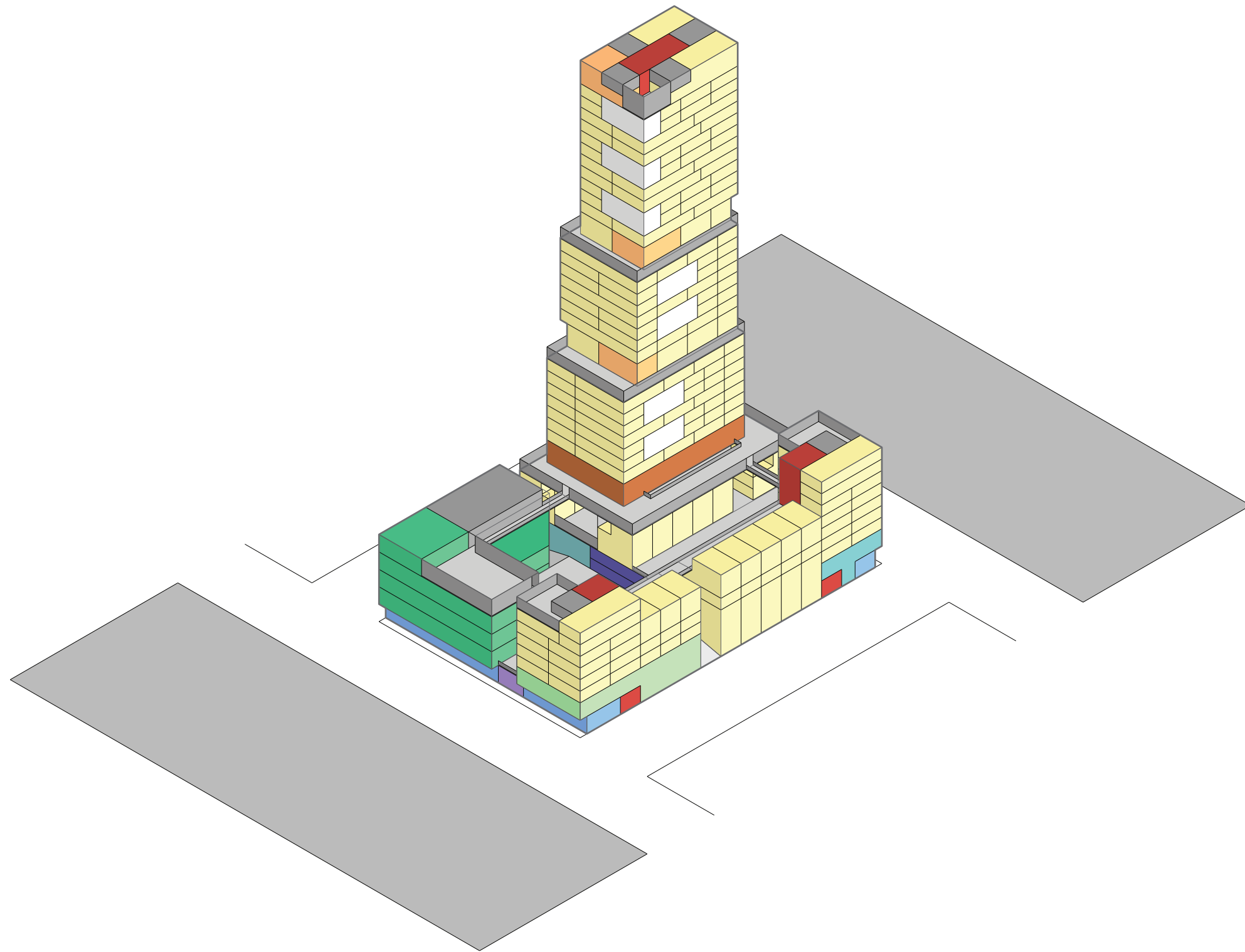


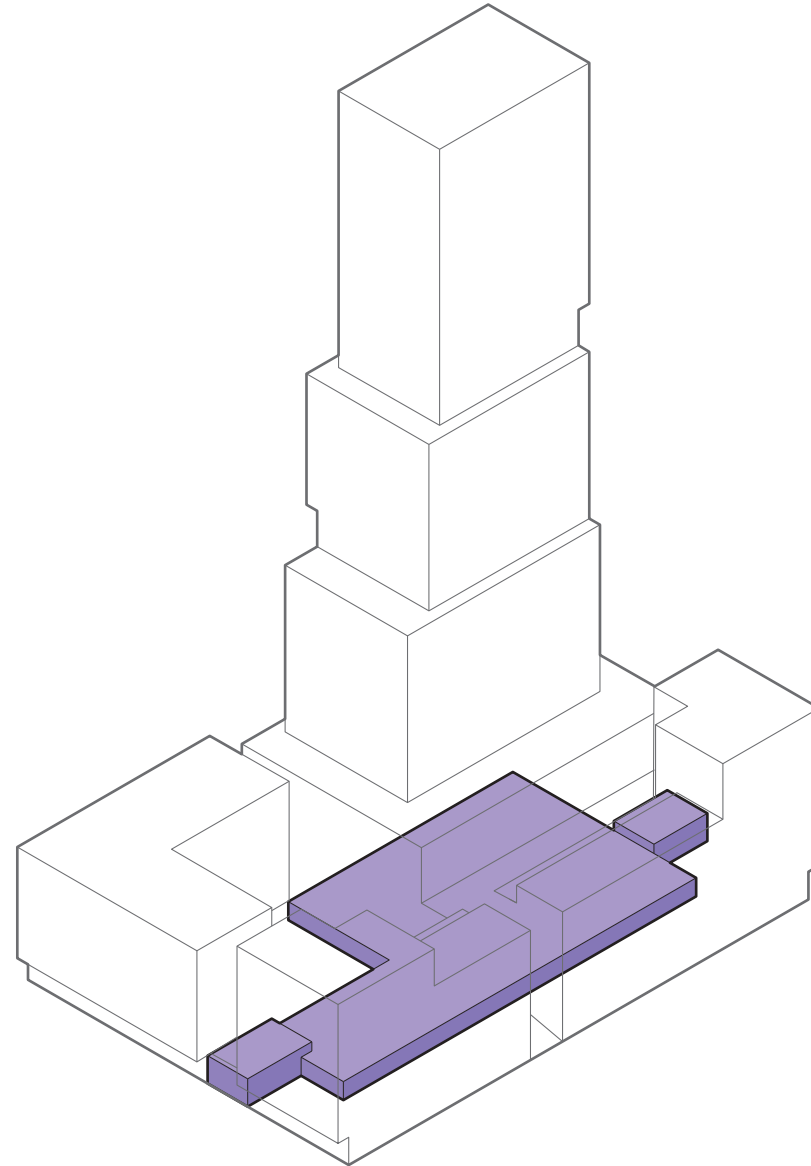
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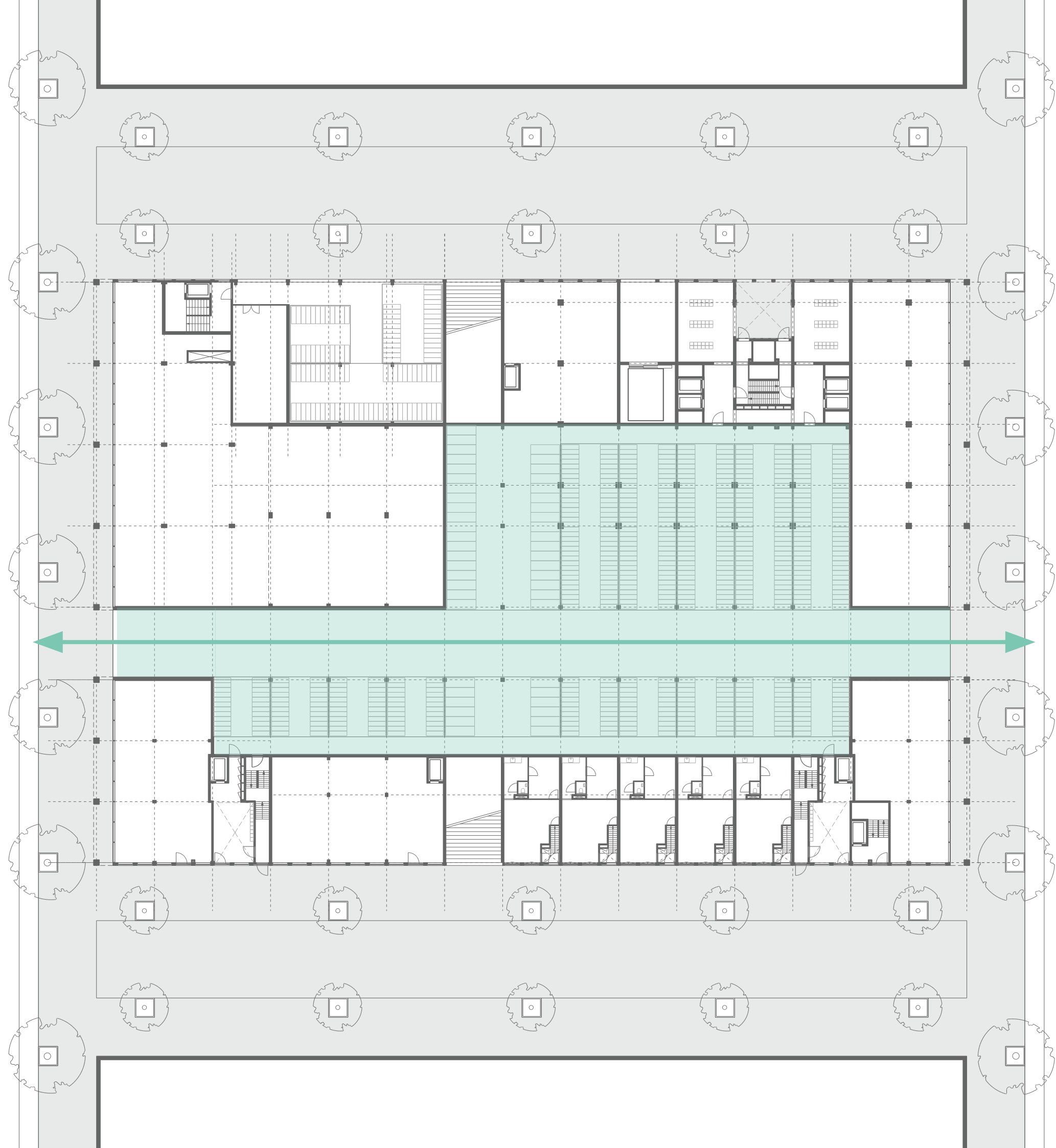


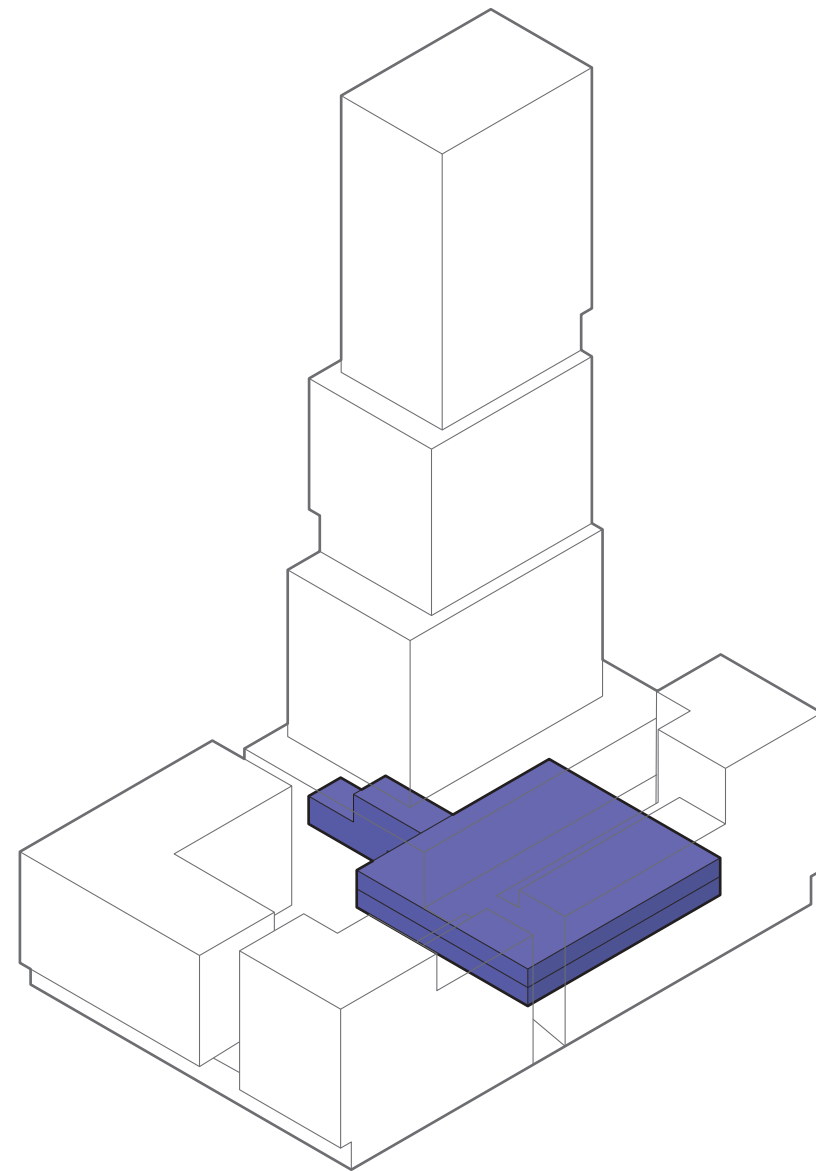


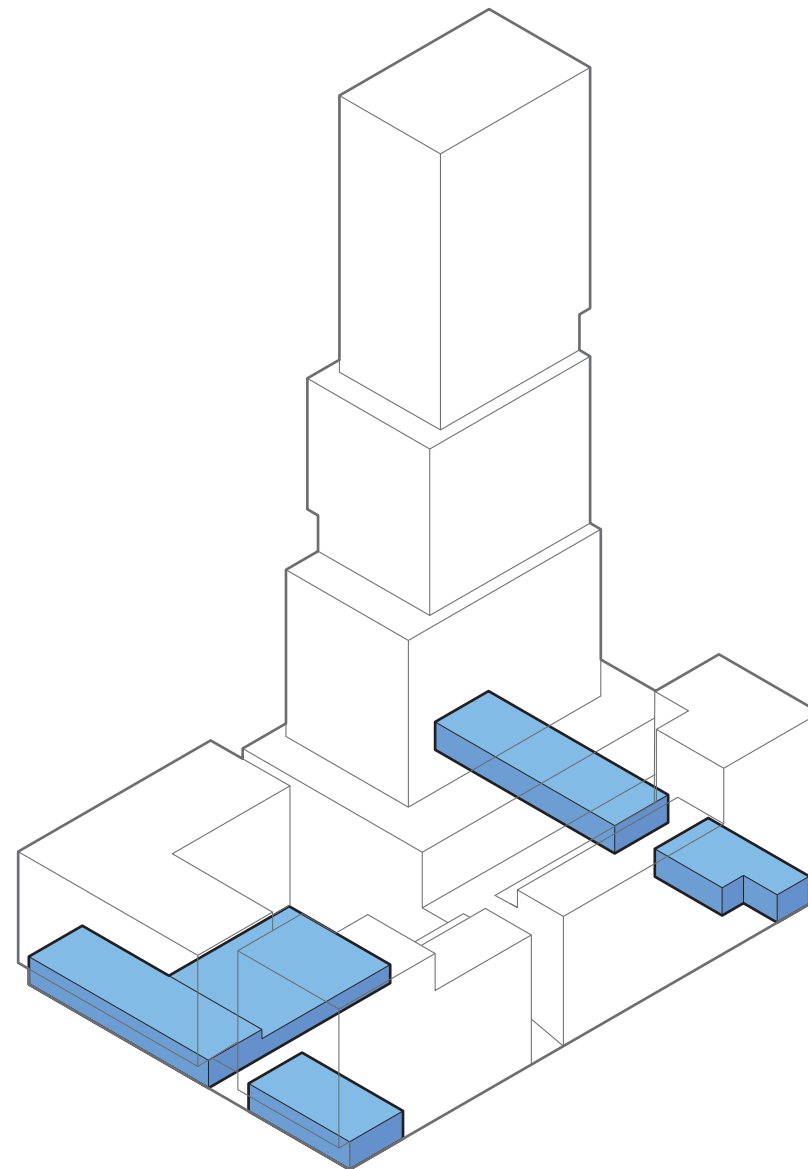


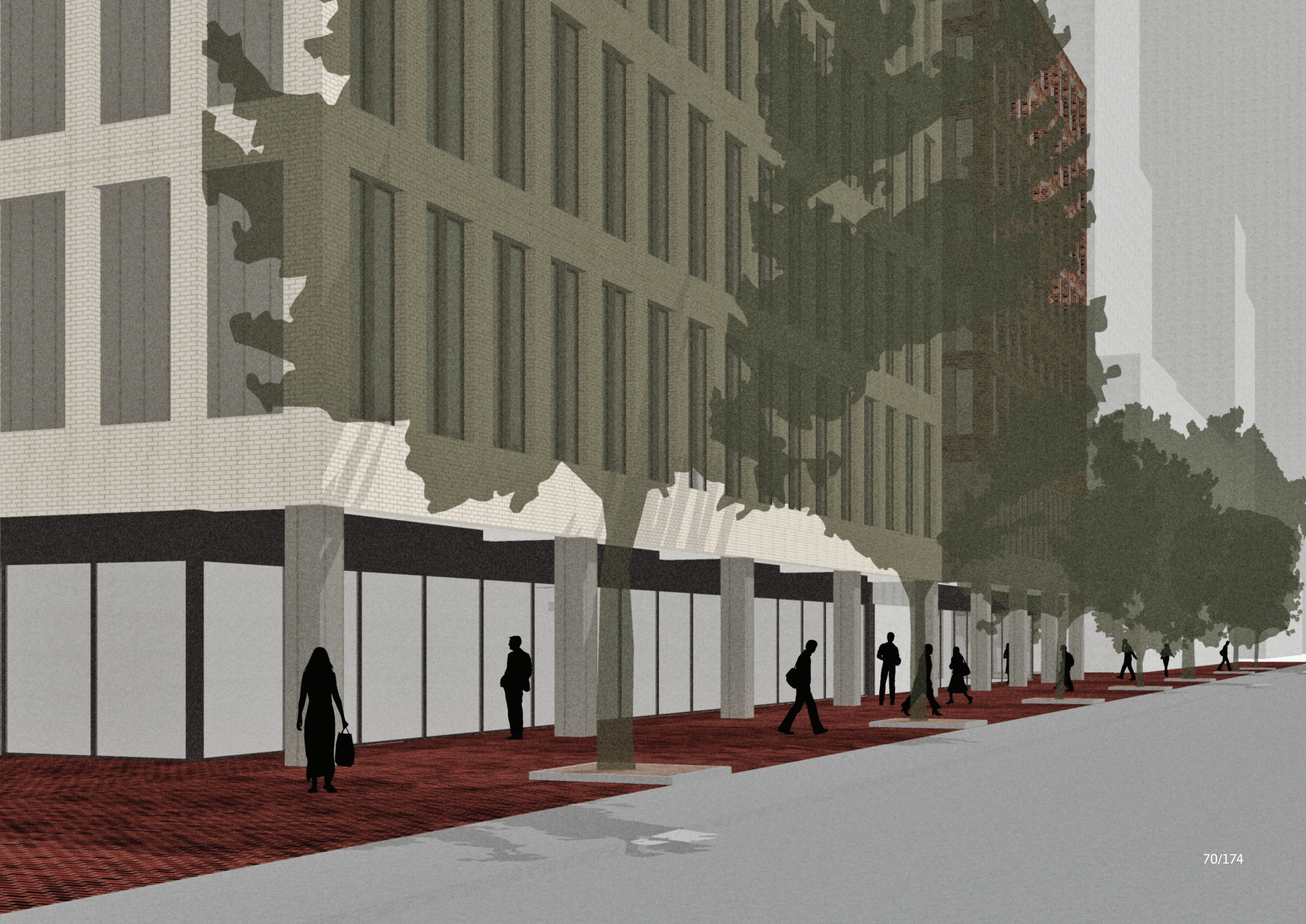


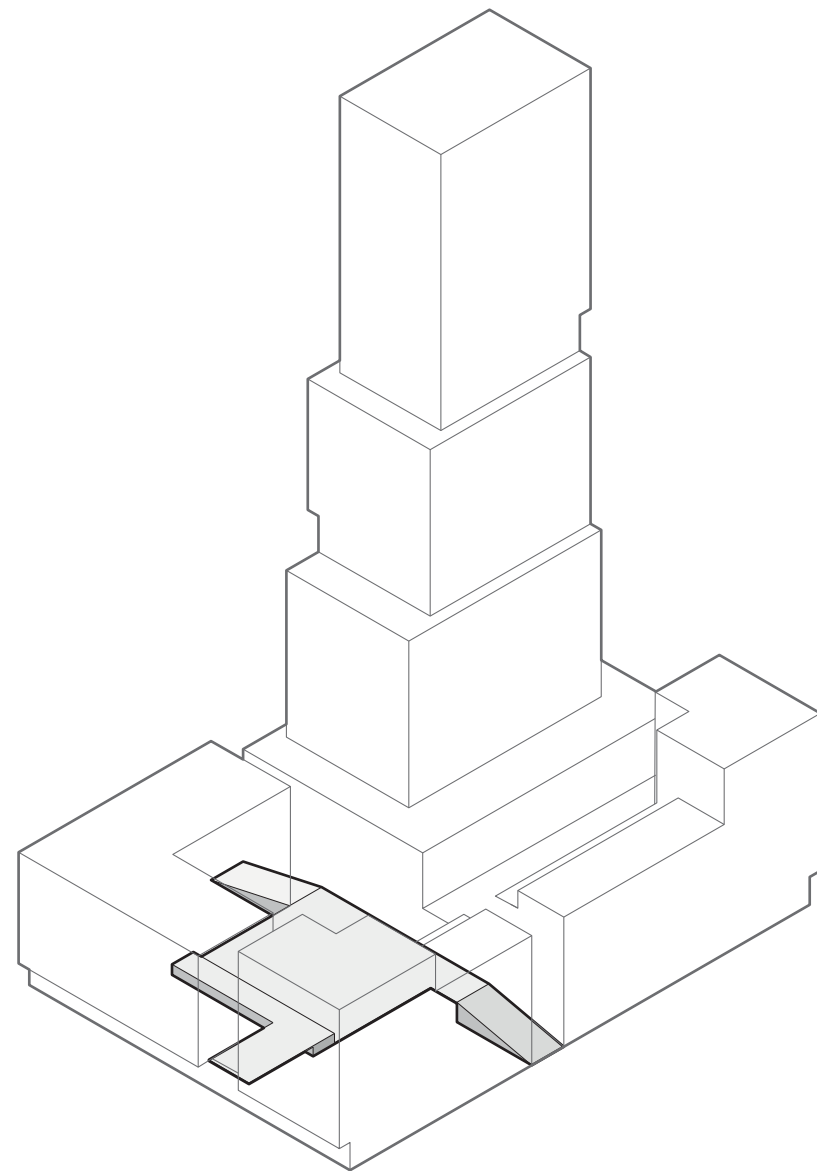


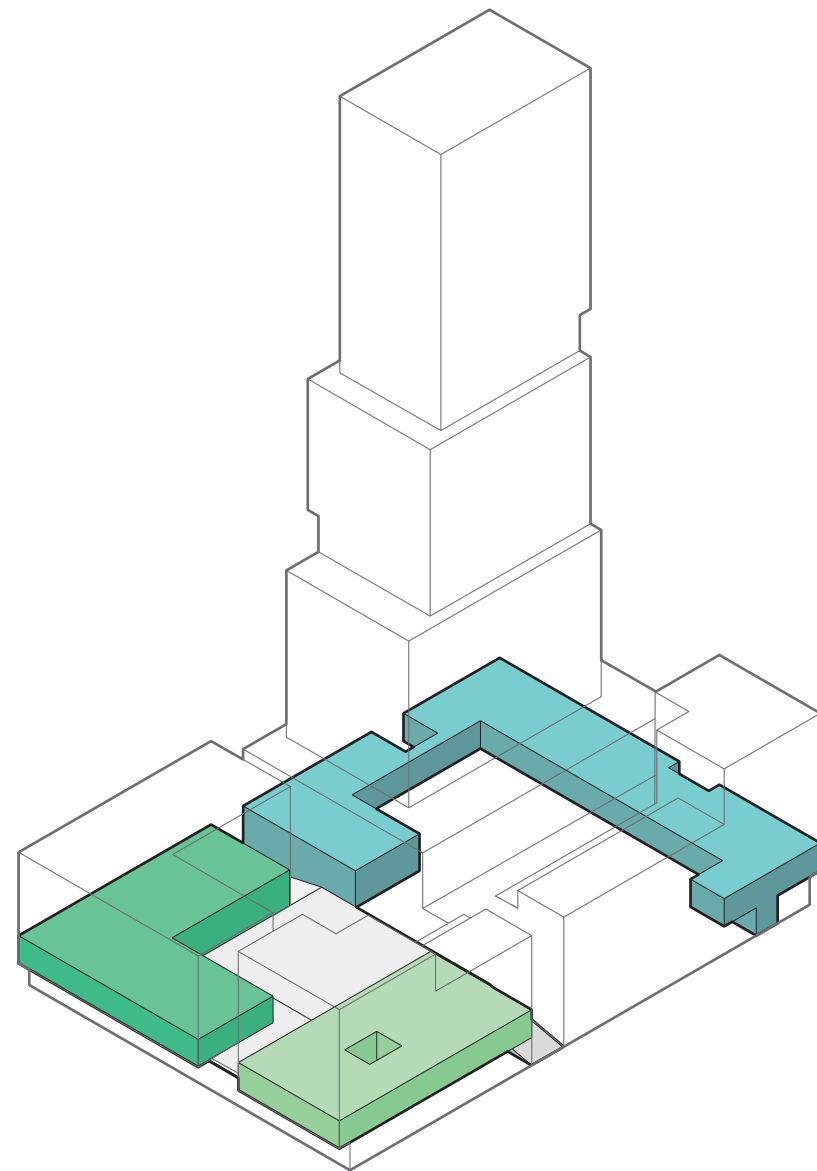








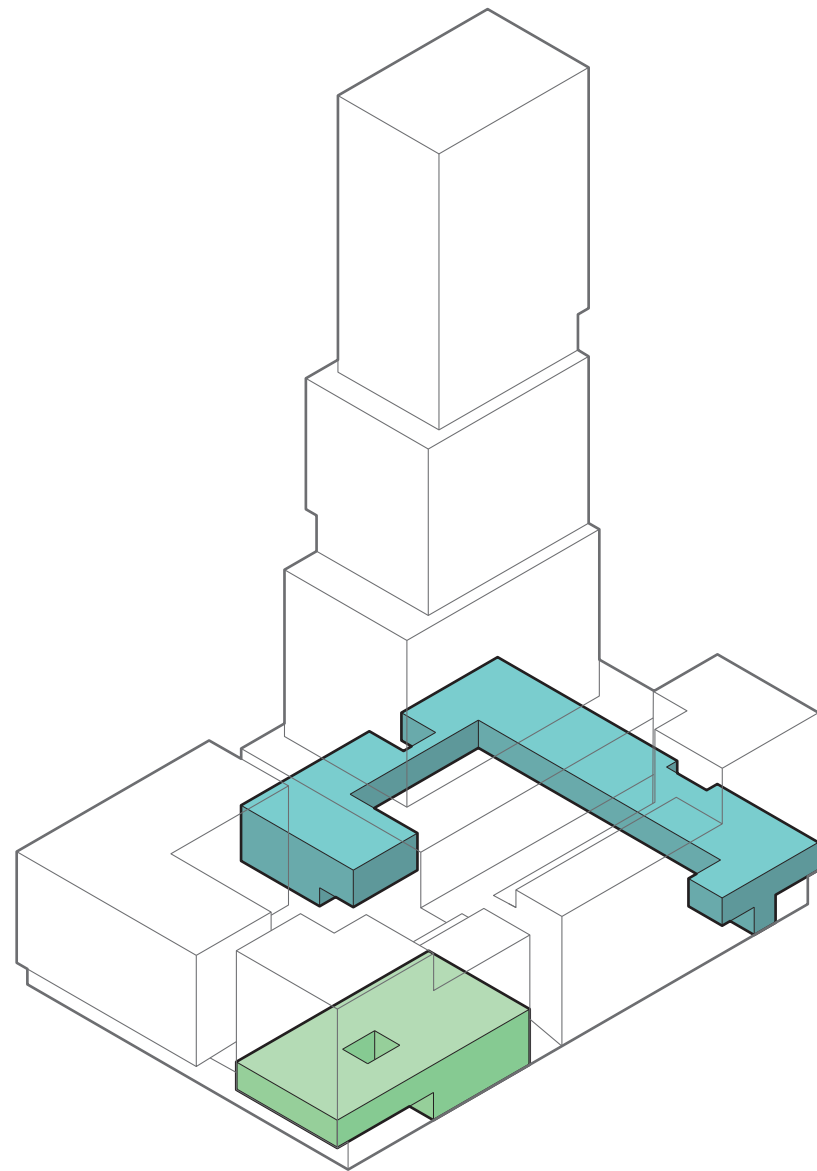


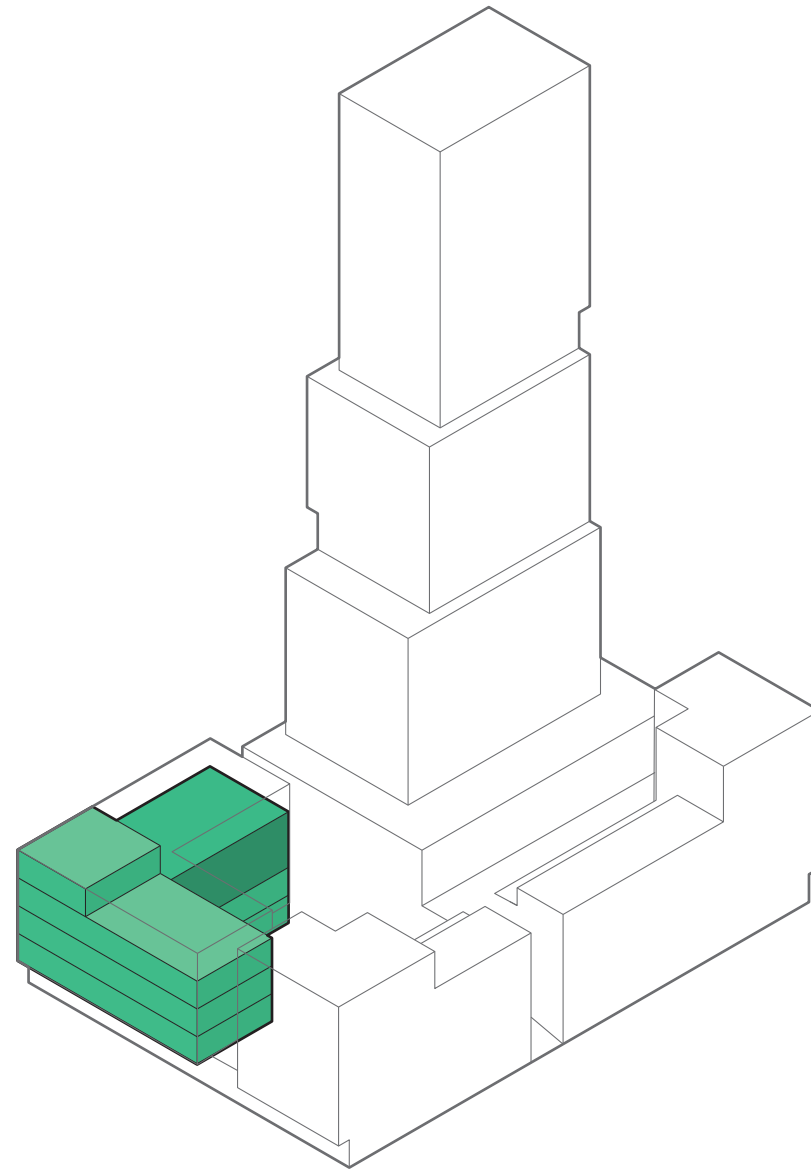


MINERVASCHOOL

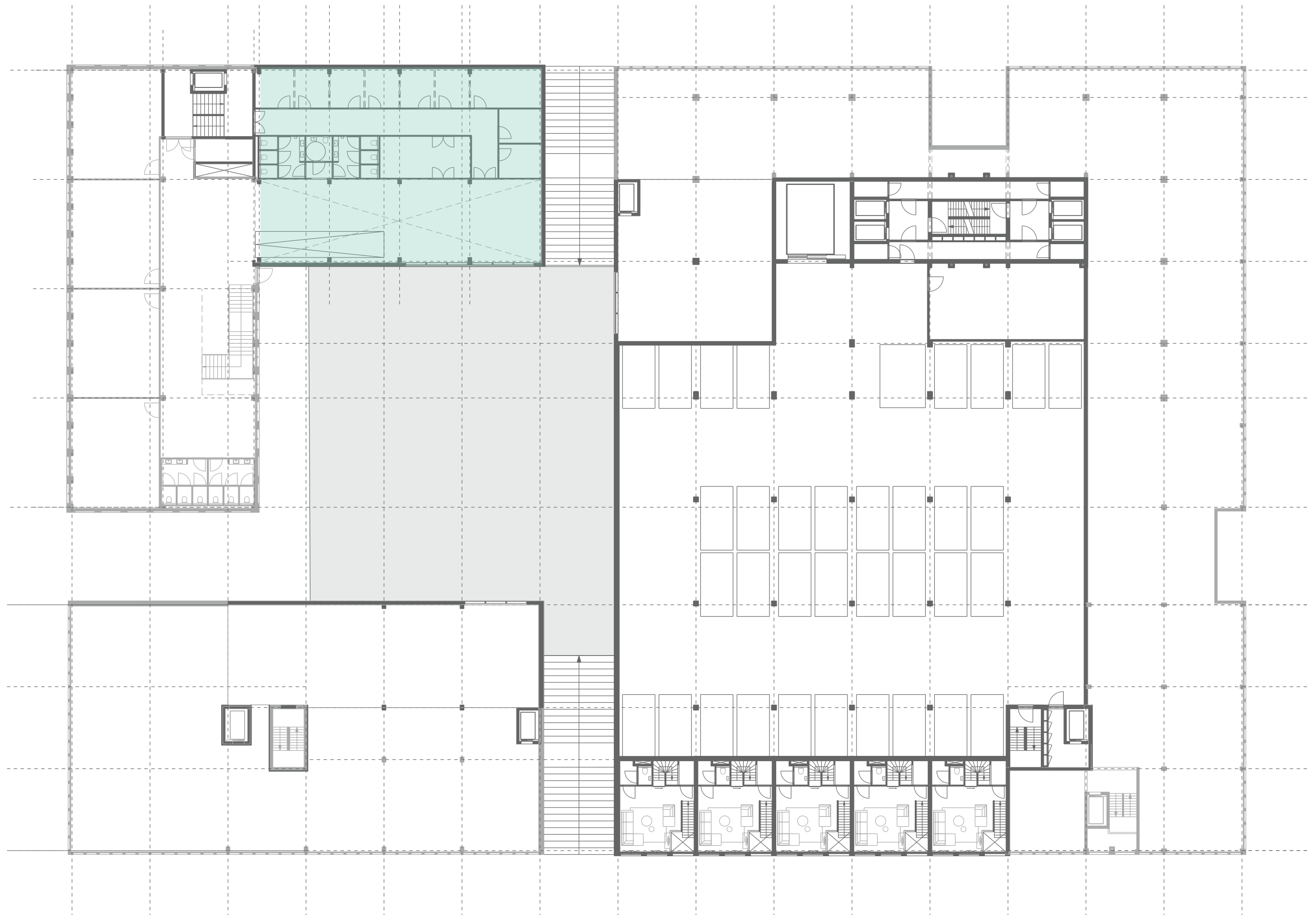


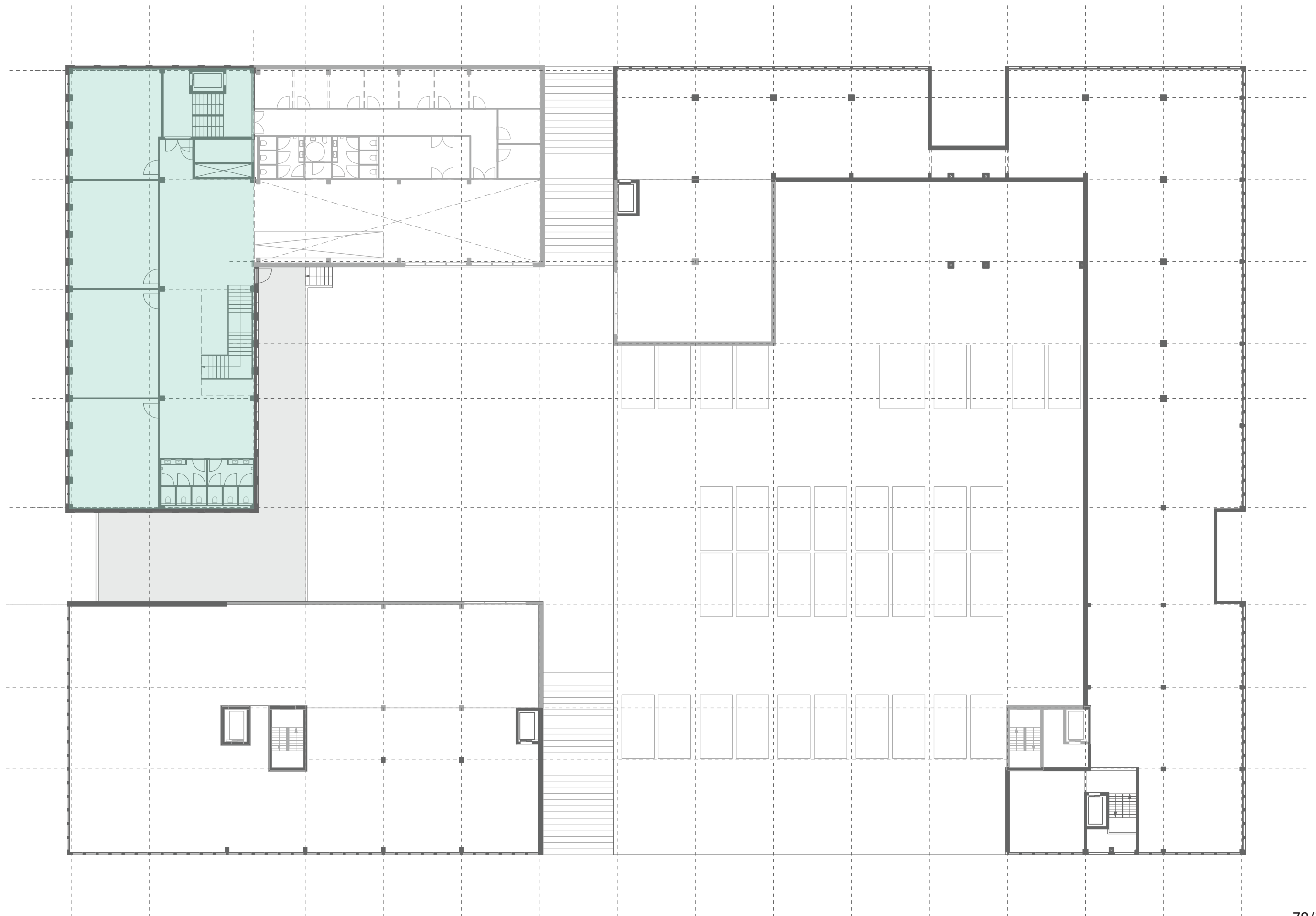


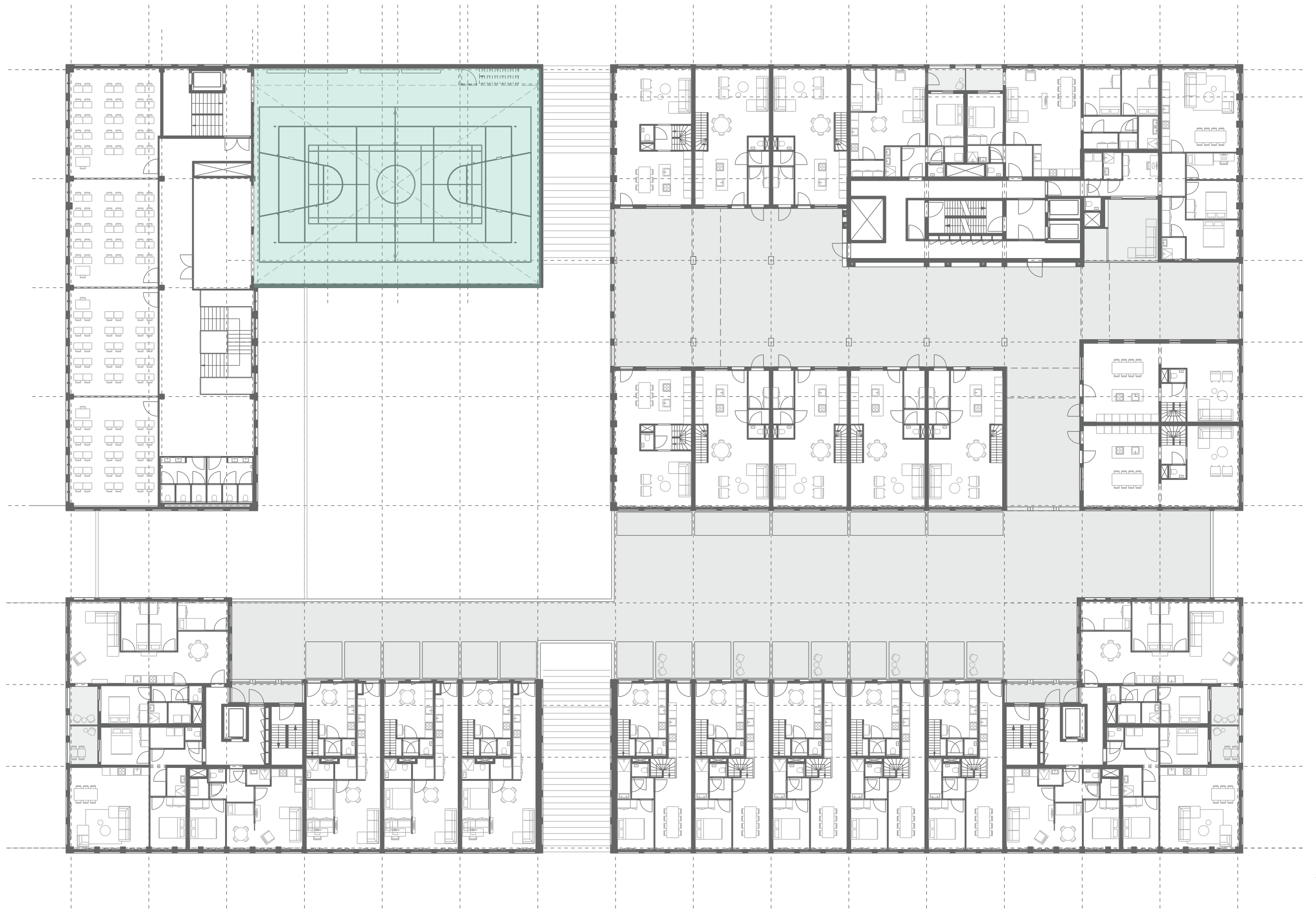


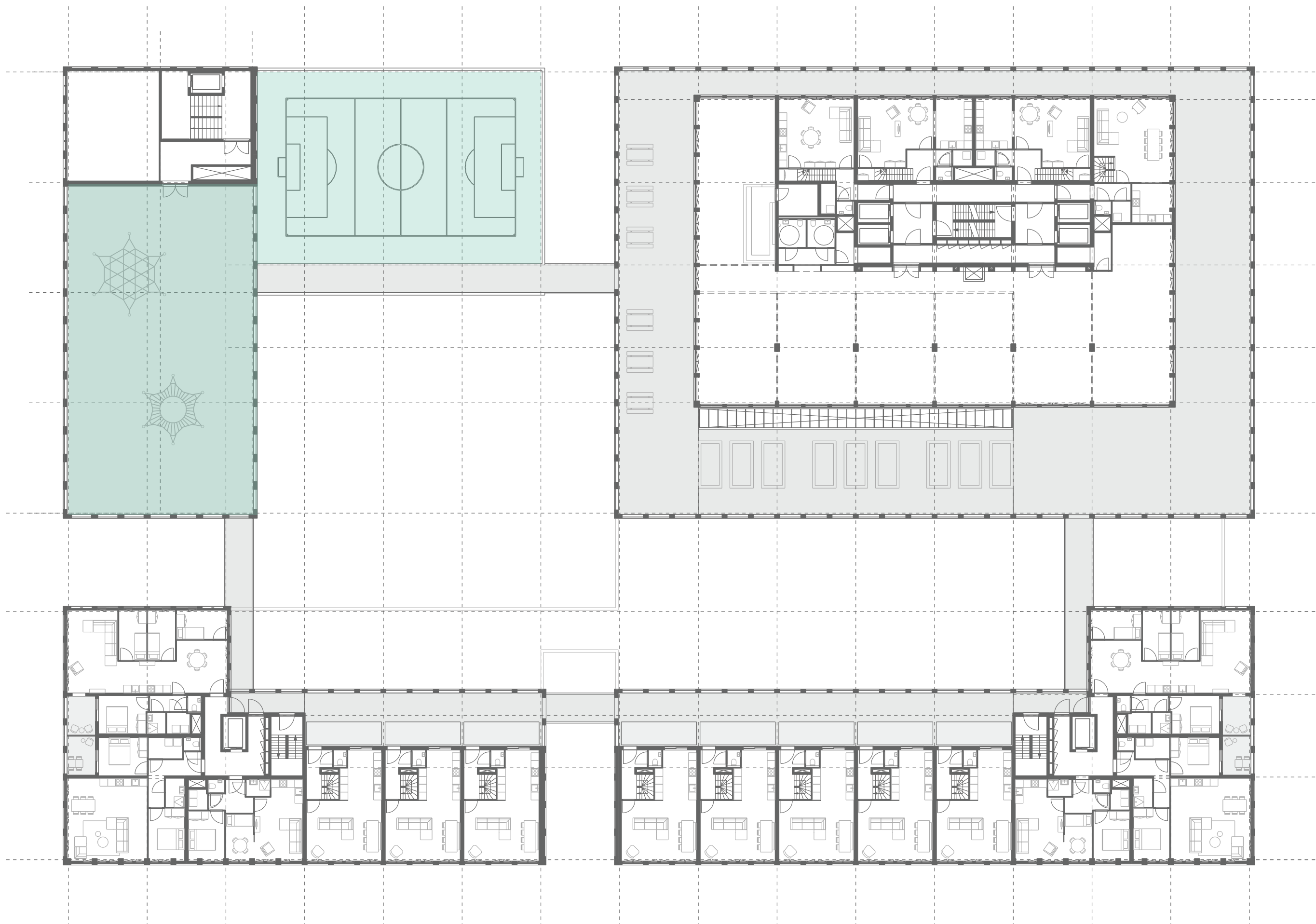




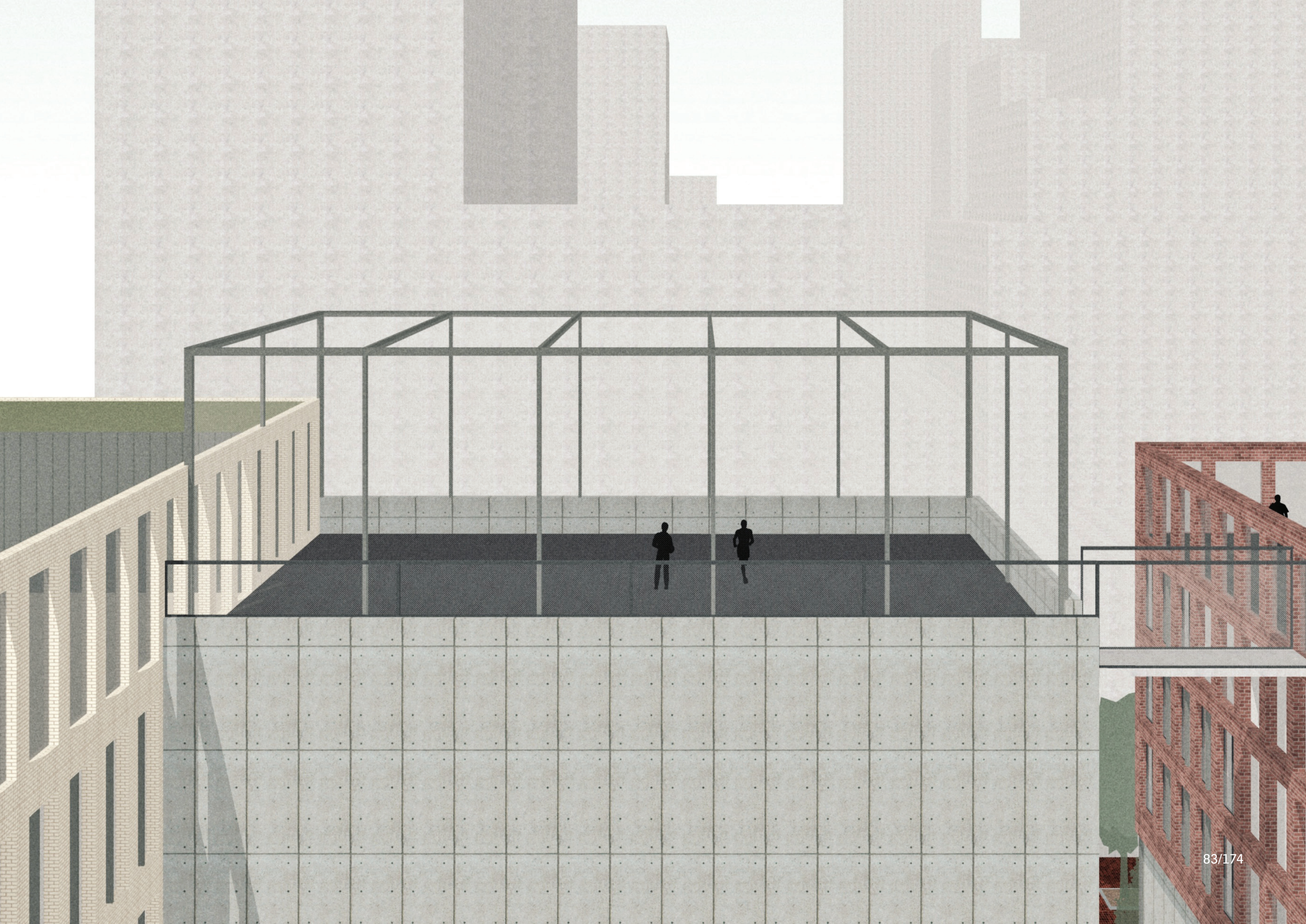






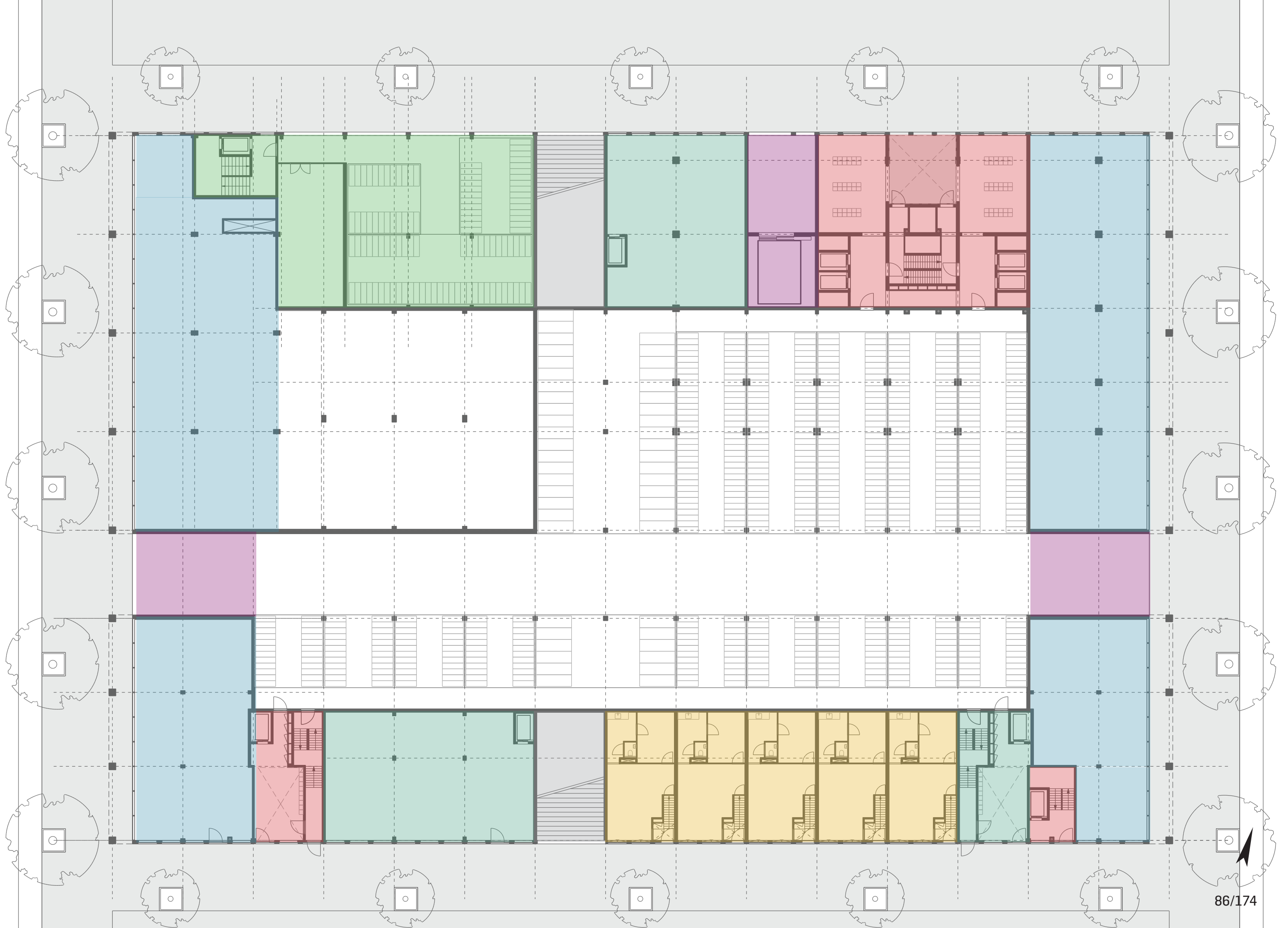


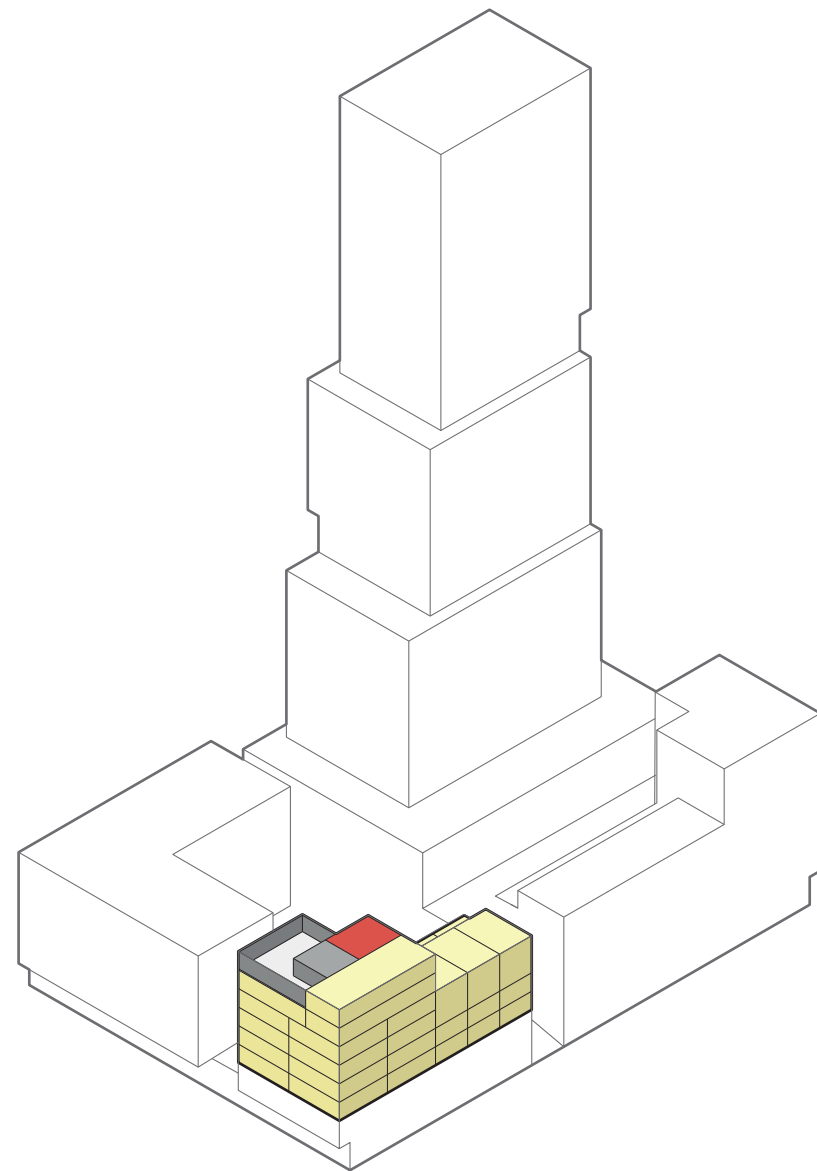


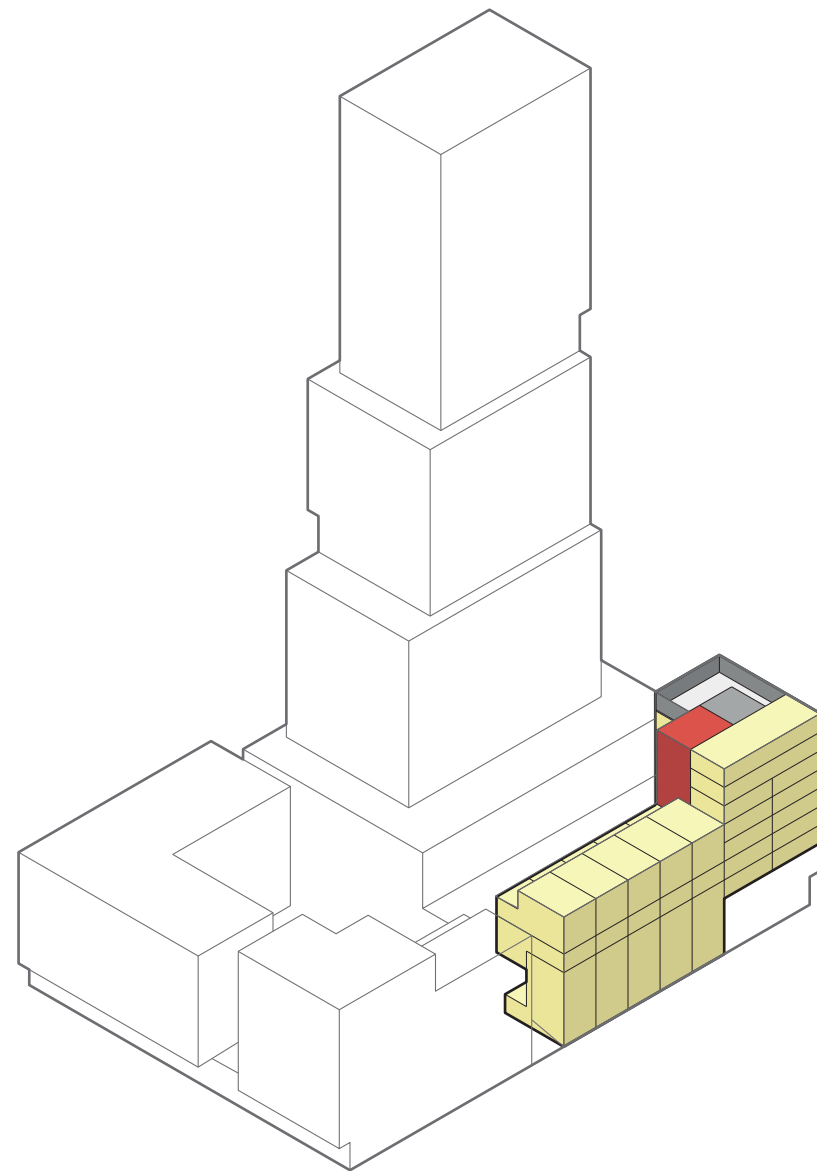


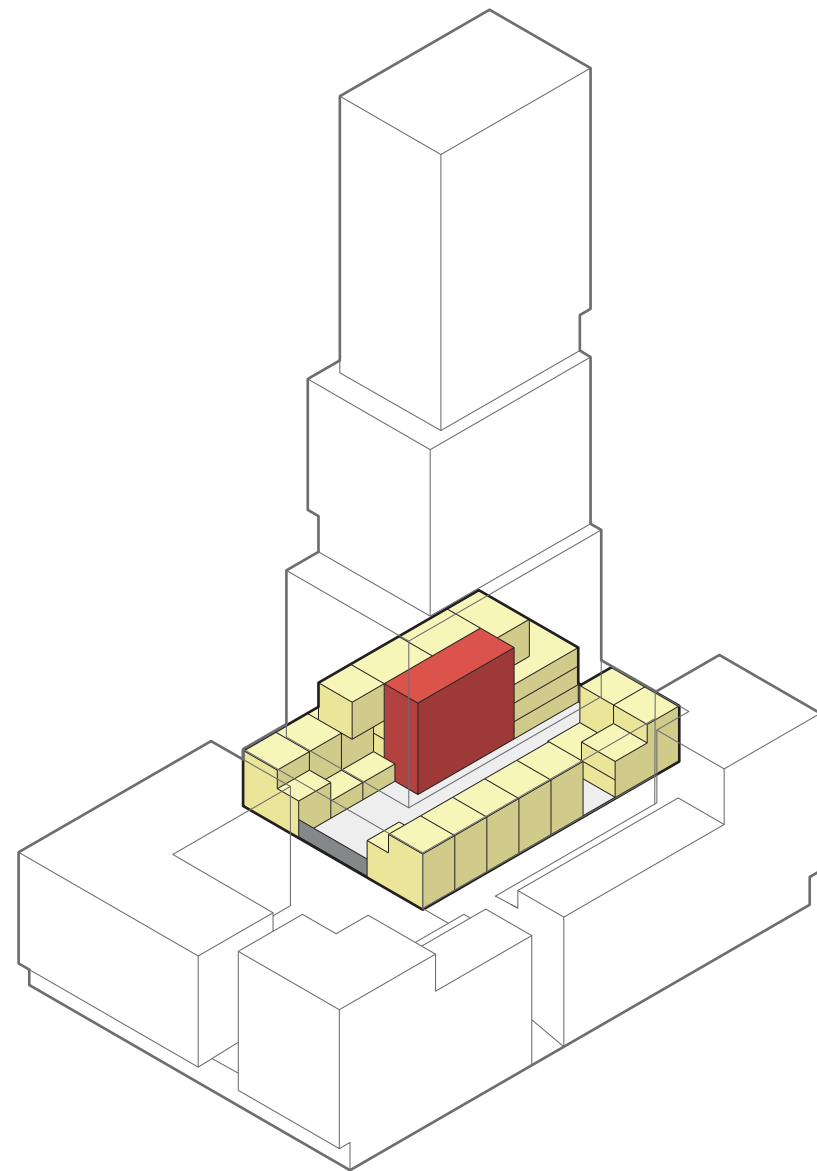


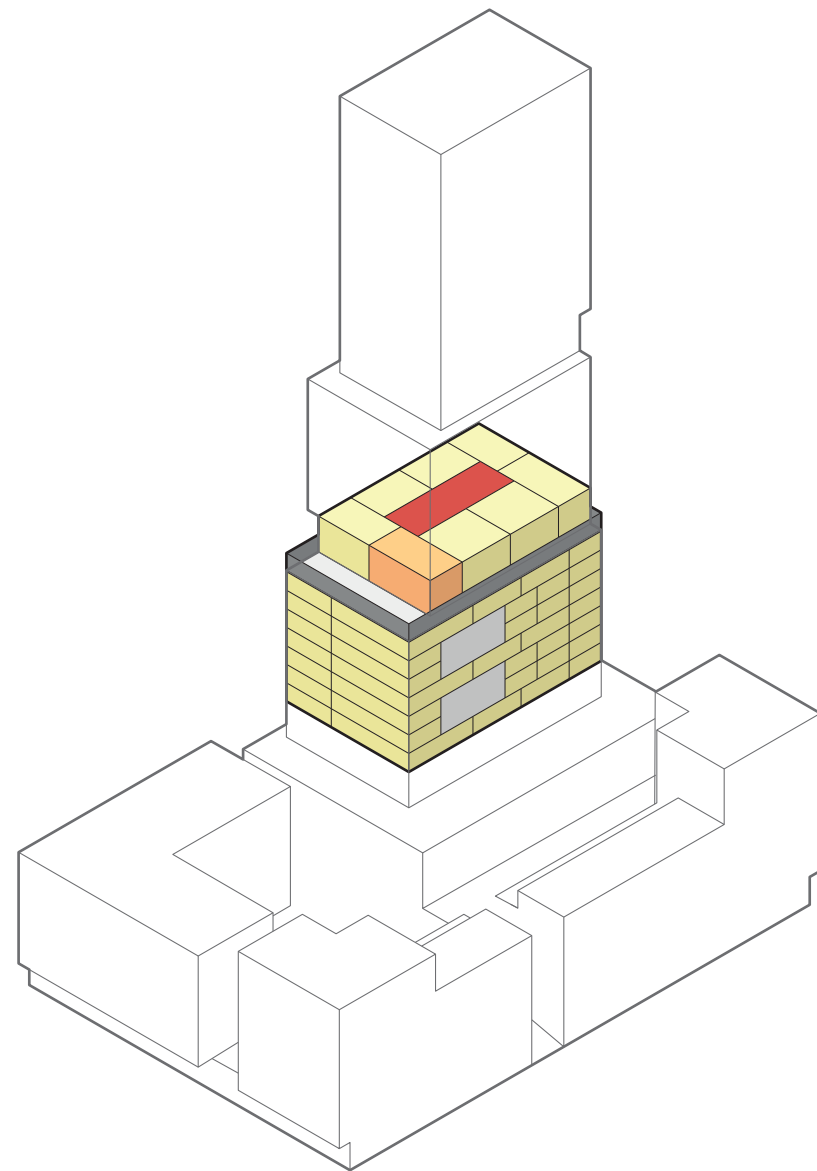


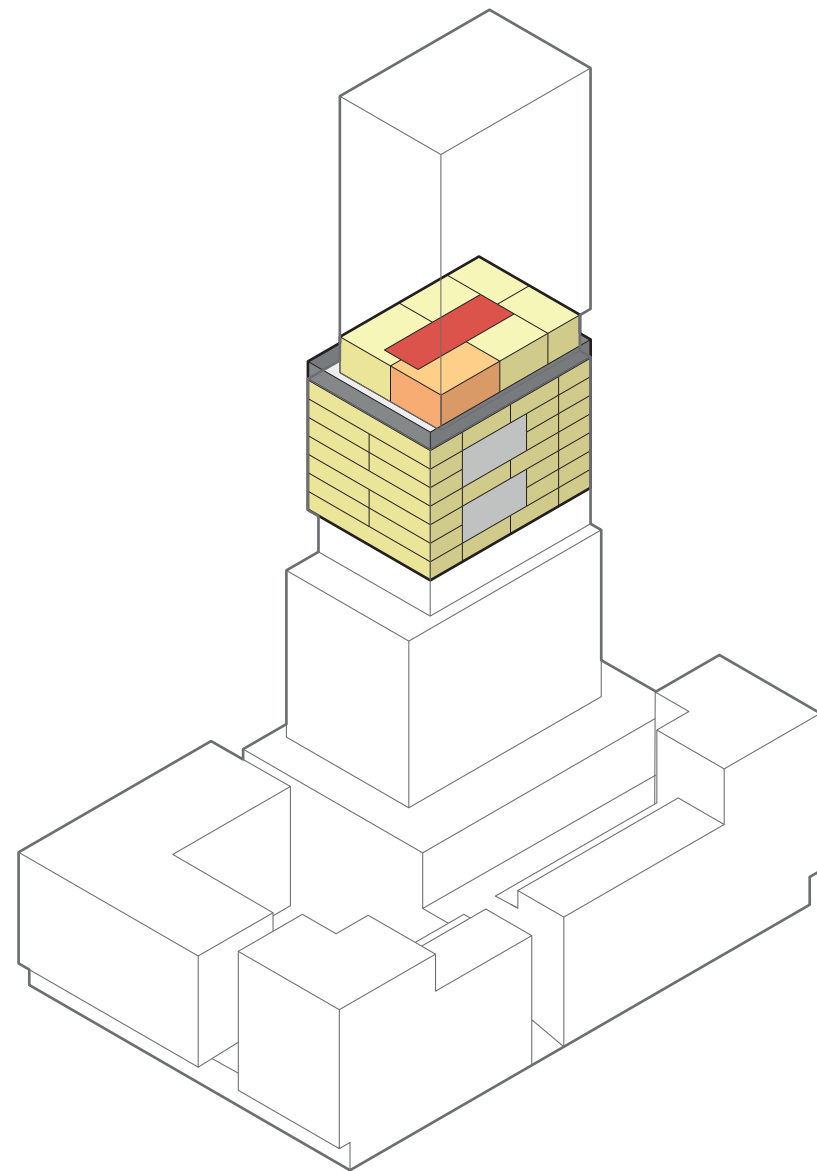


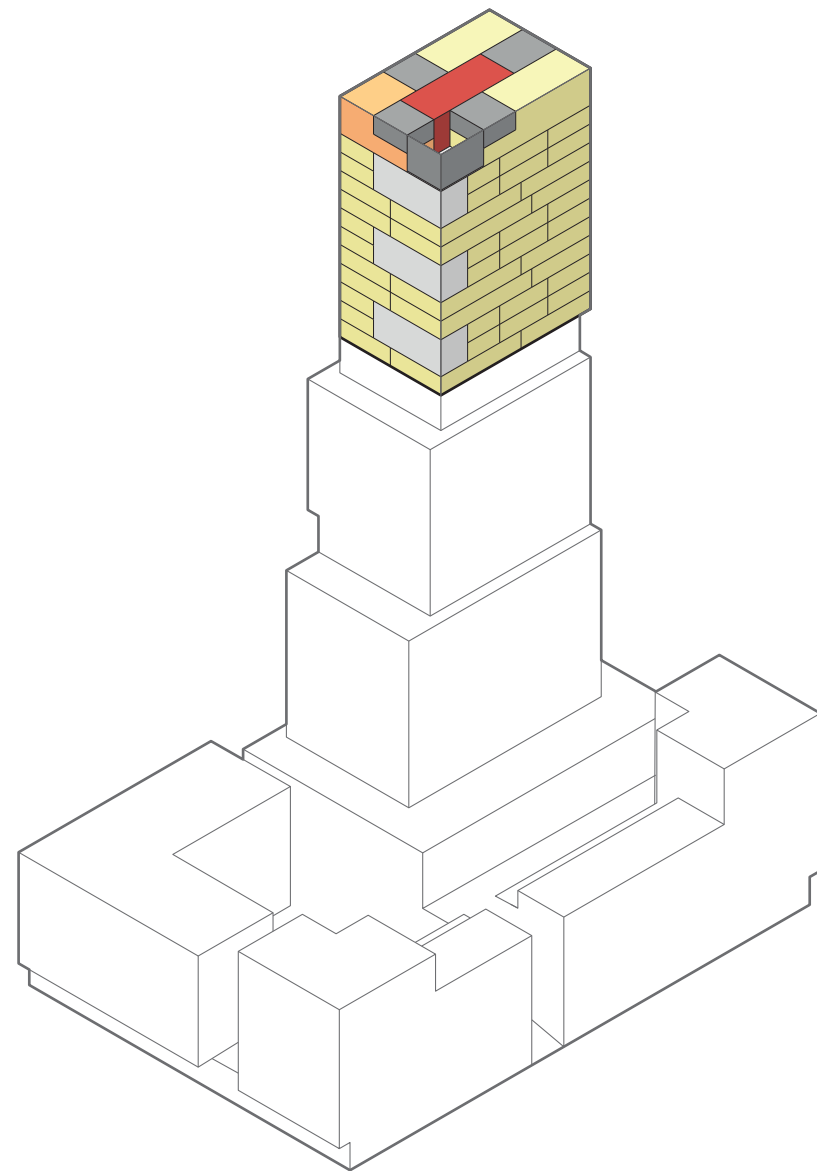


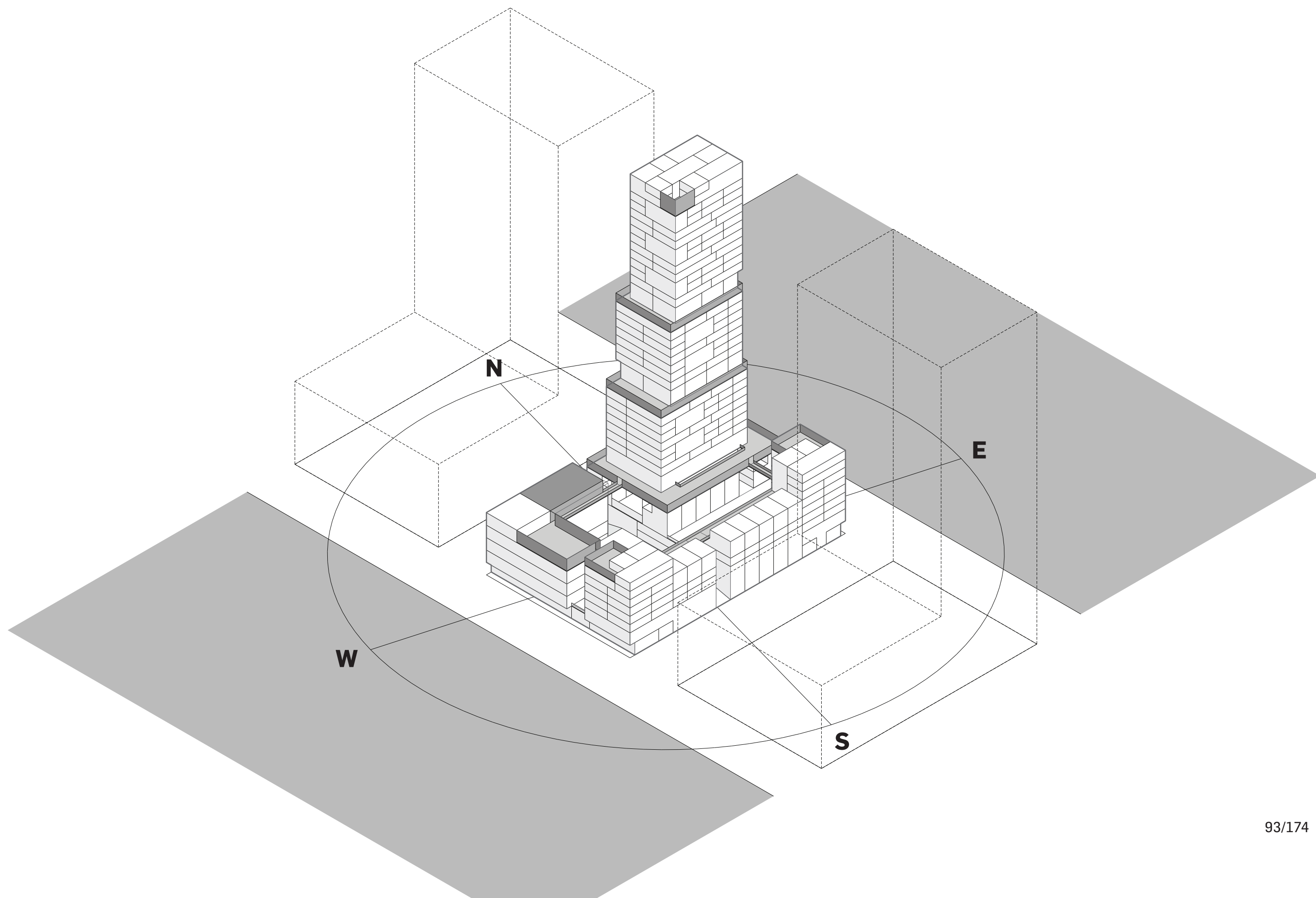


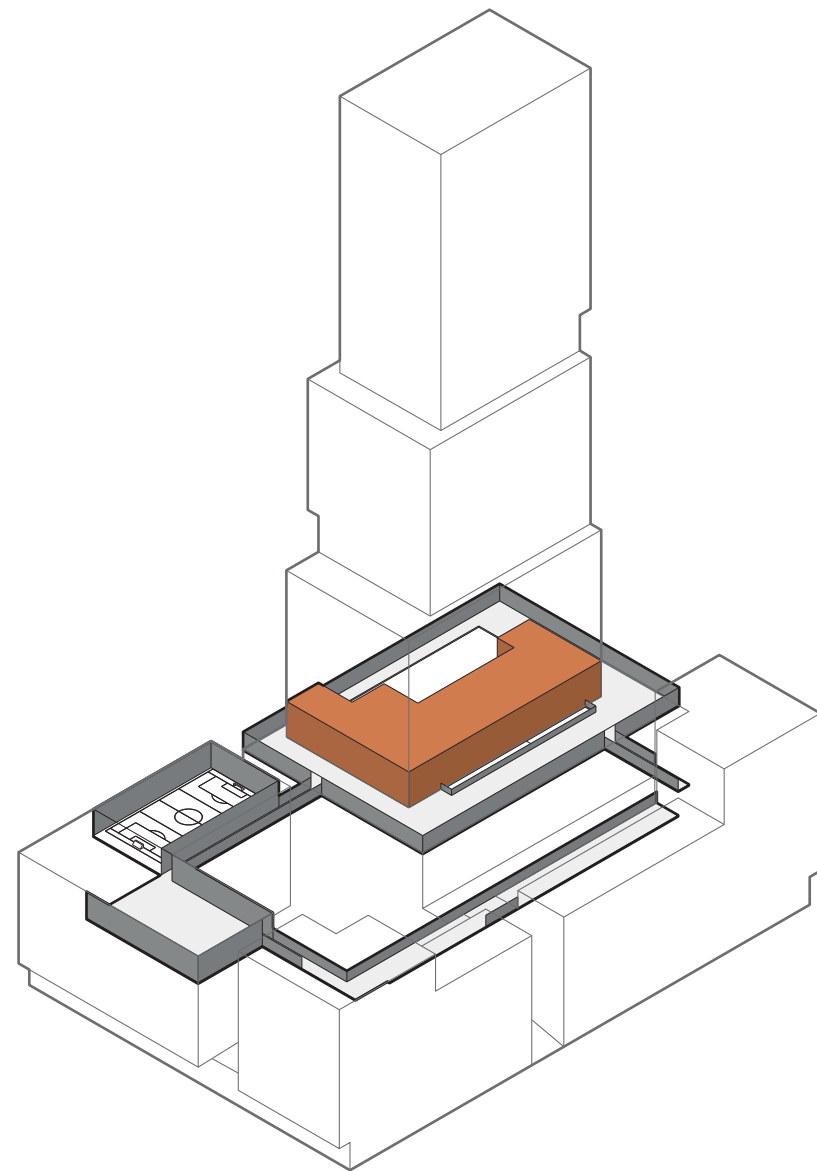


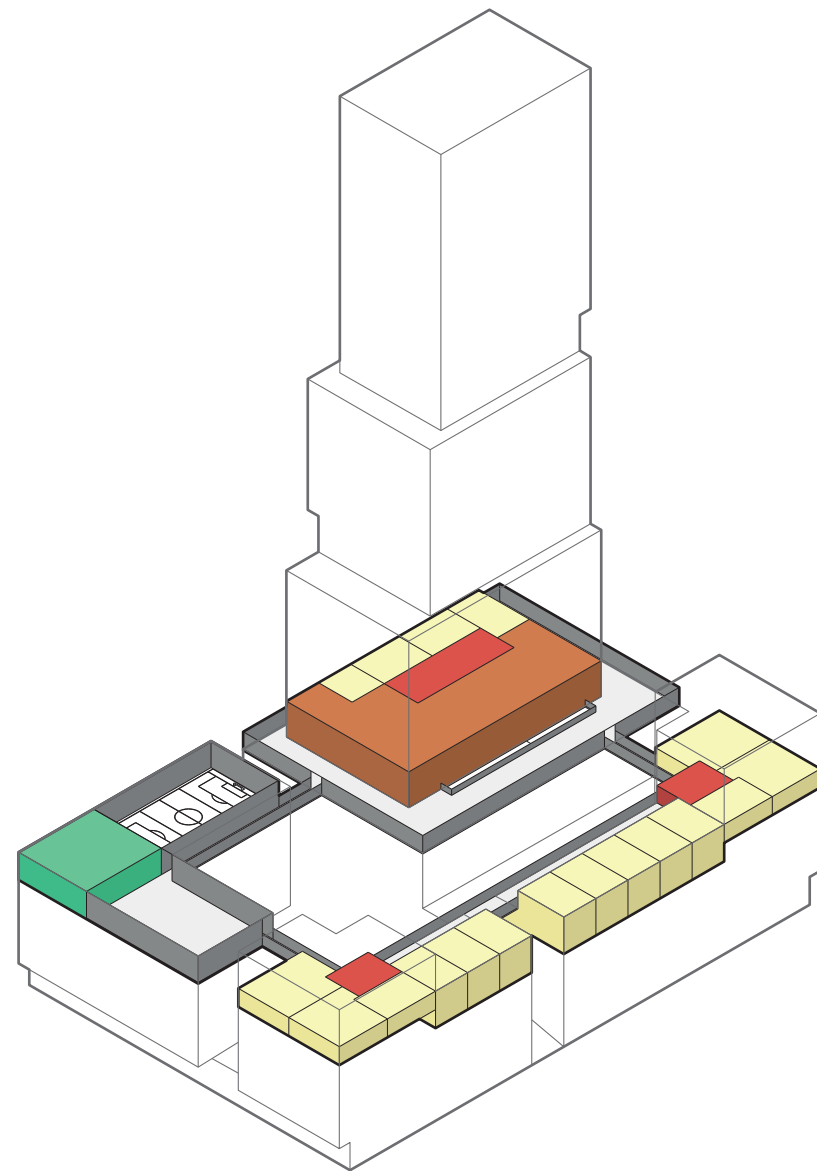






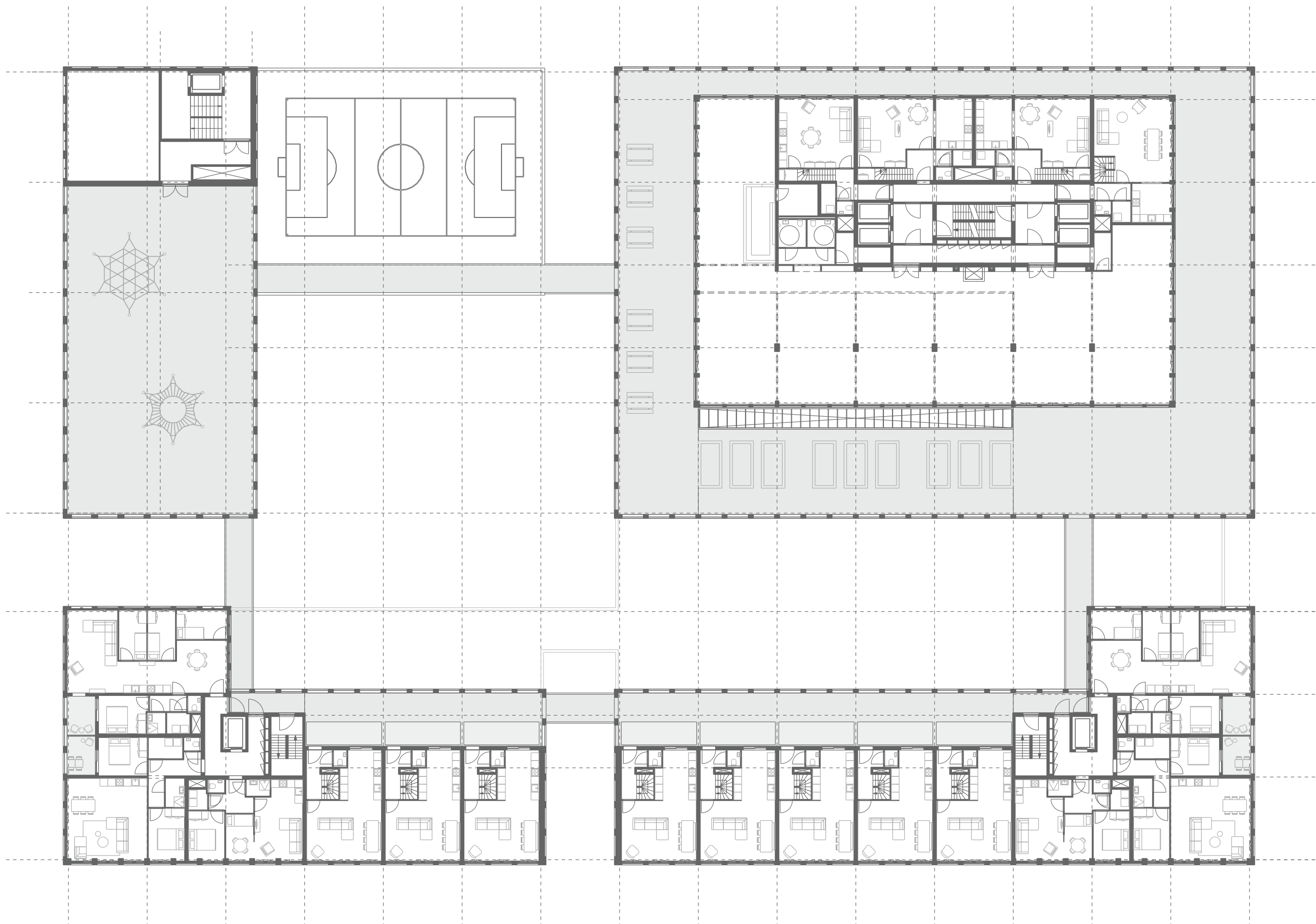


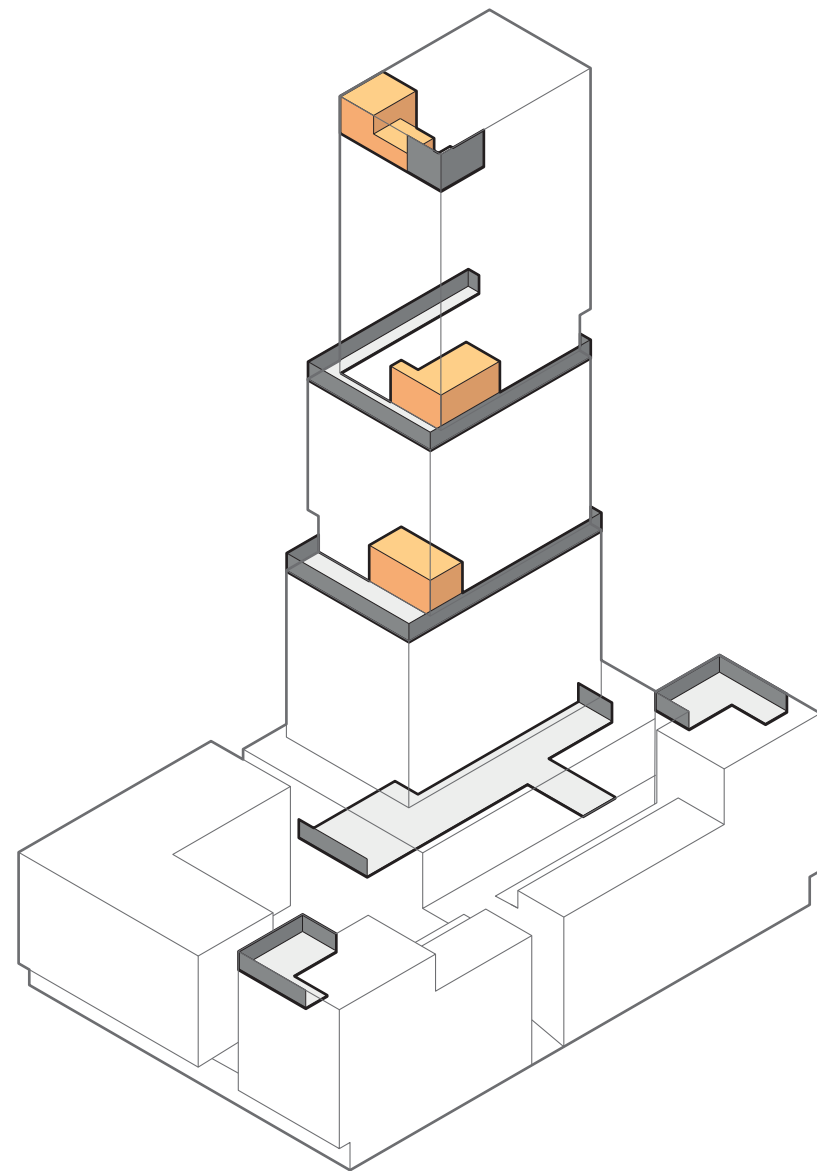


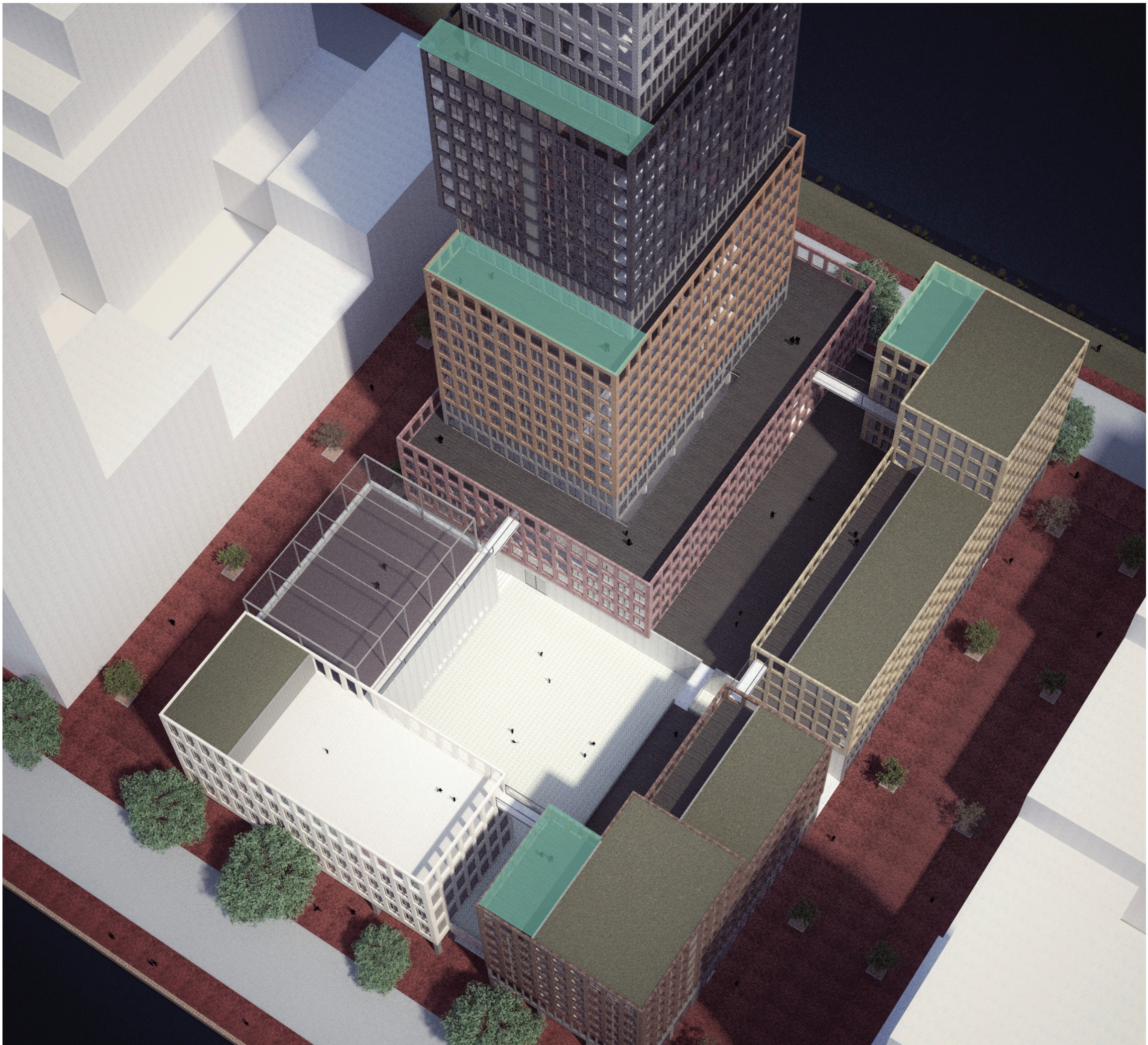






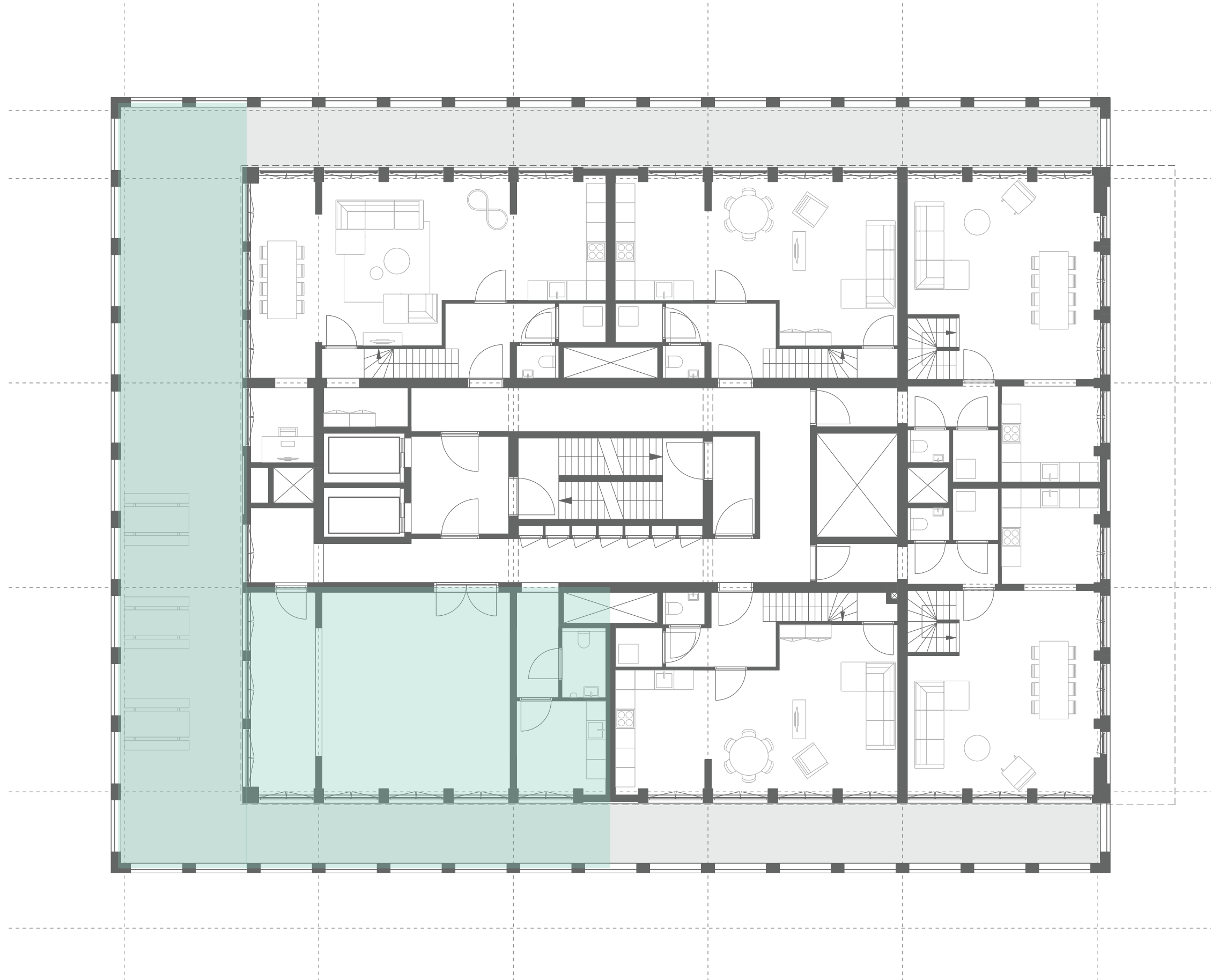


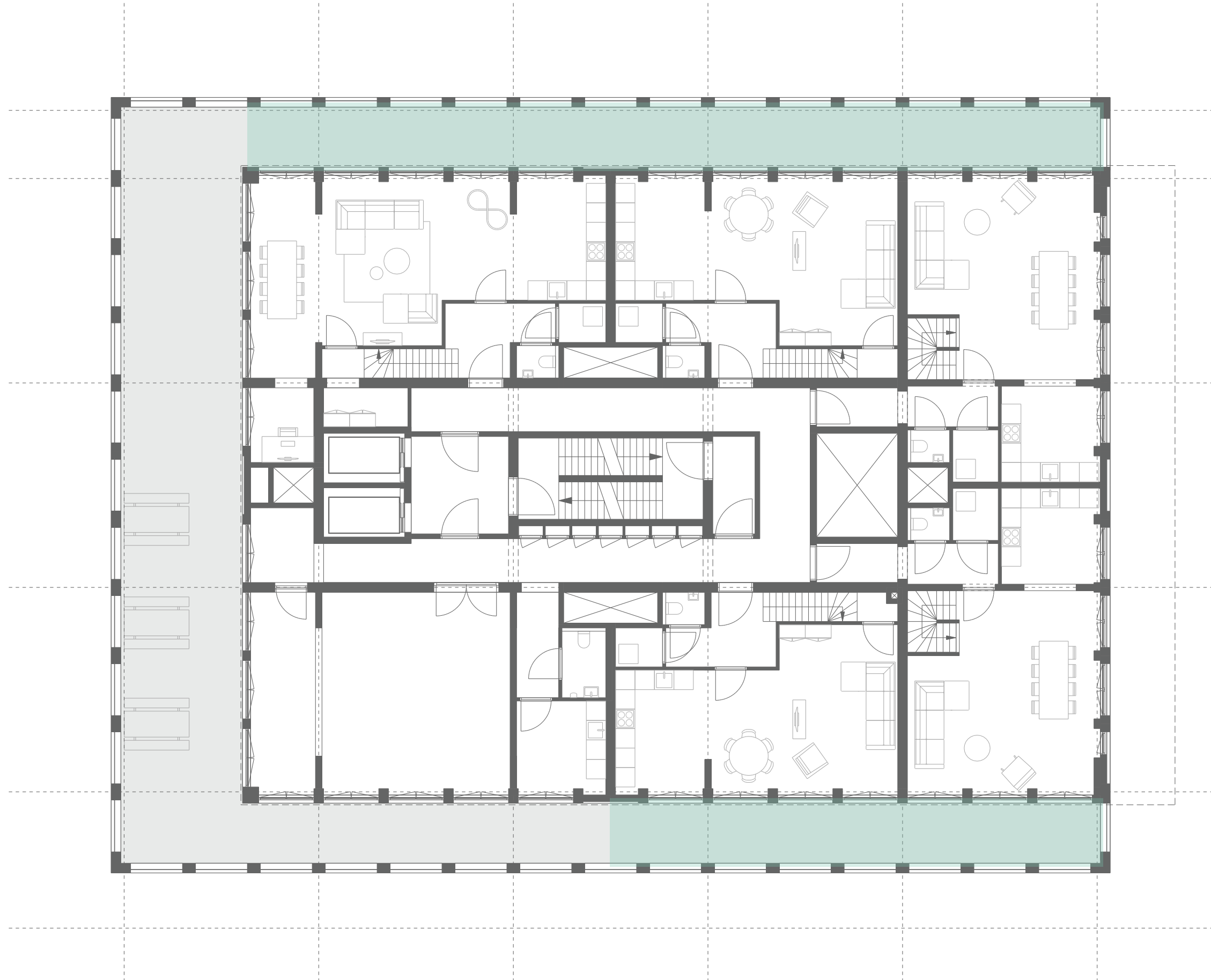


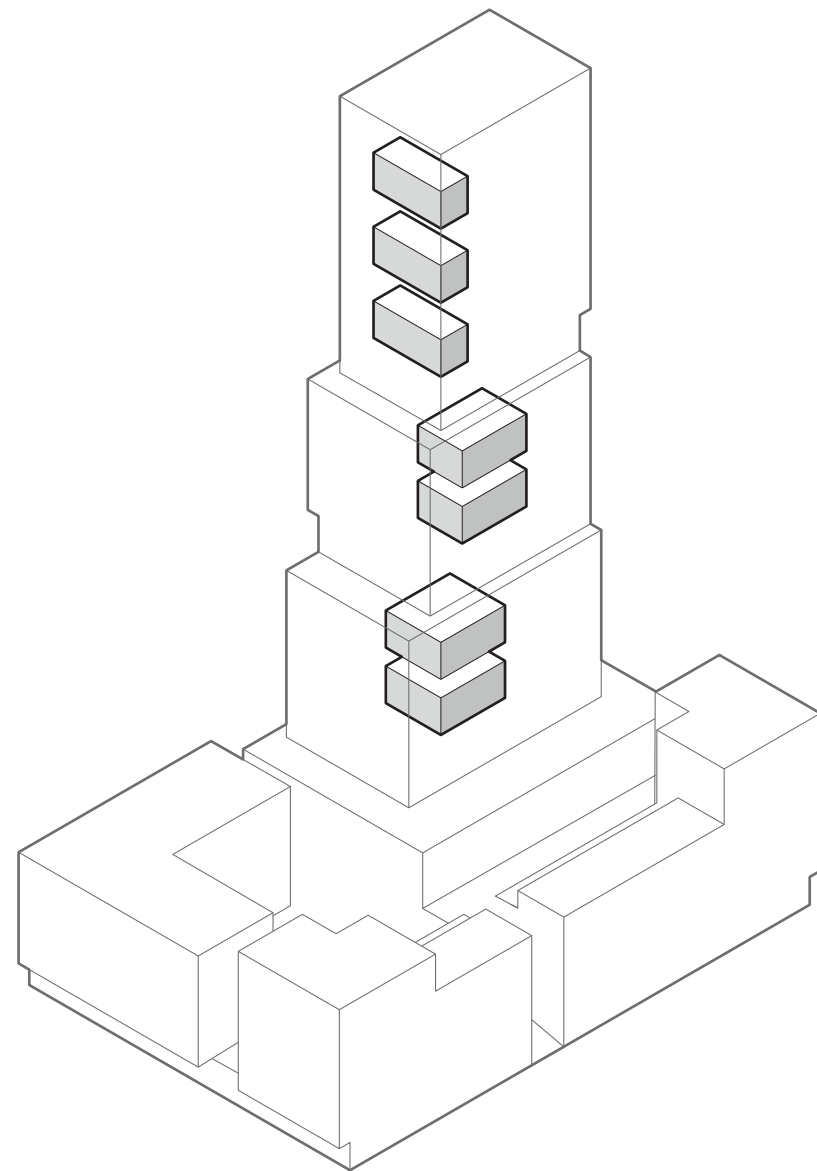






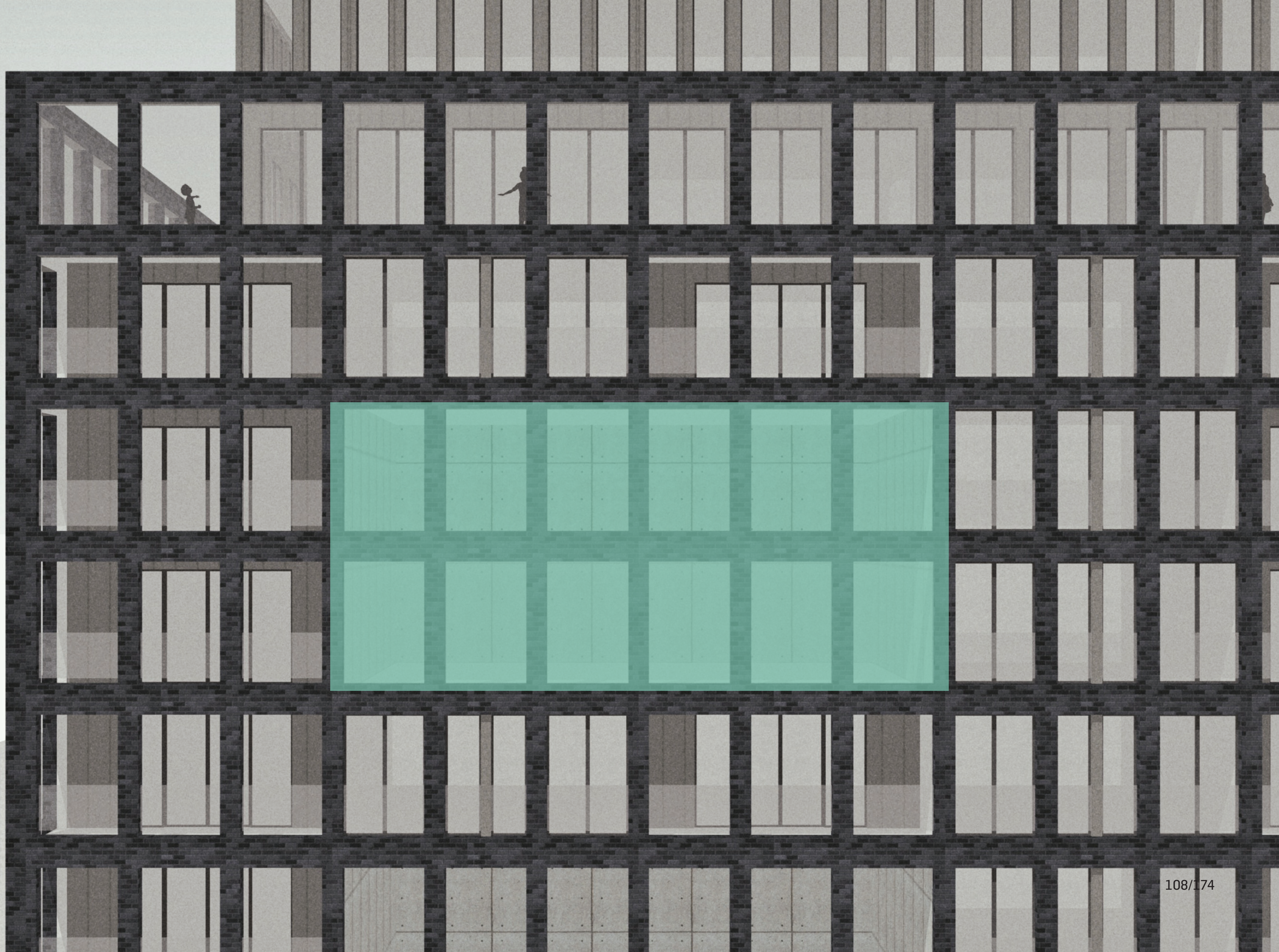


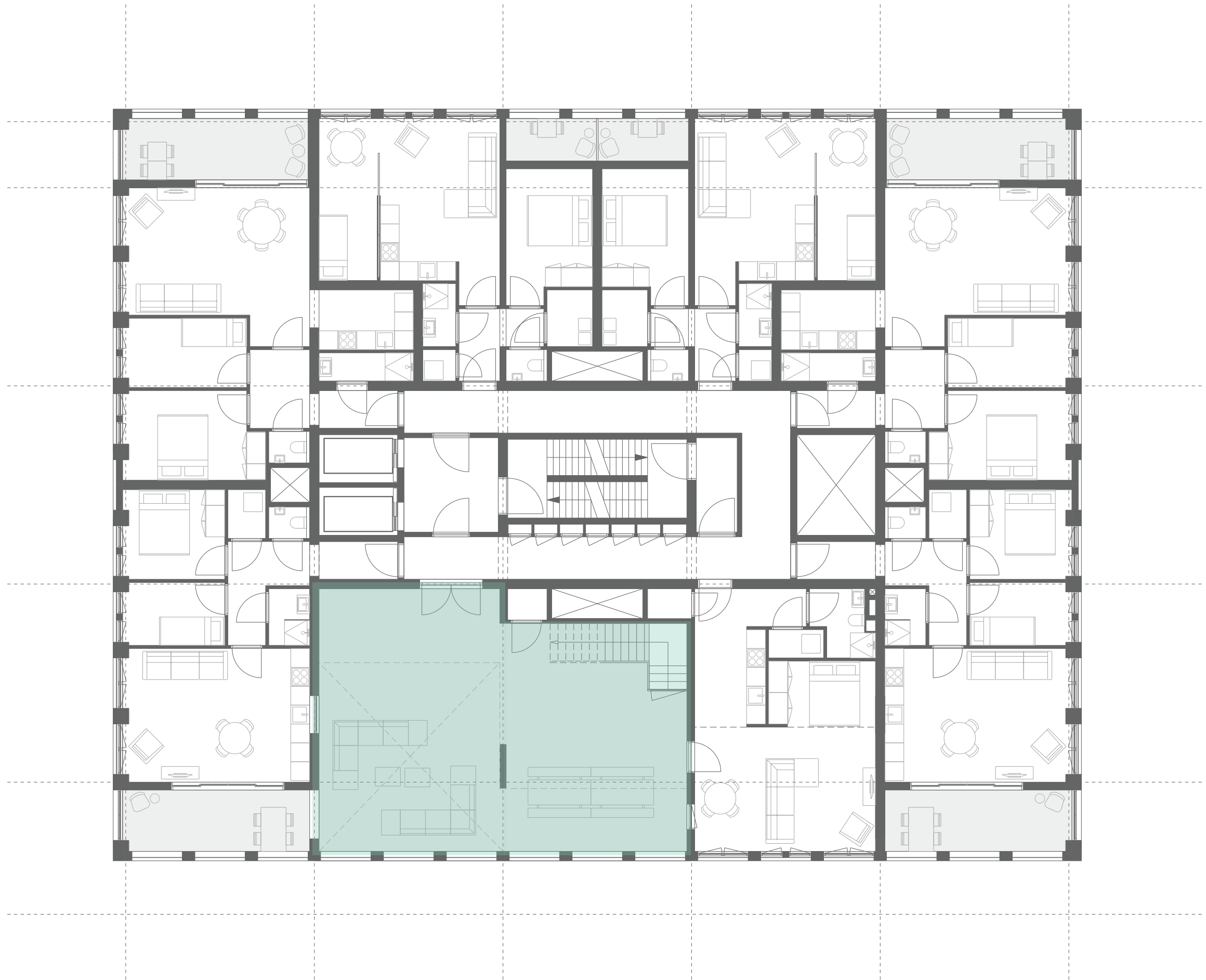


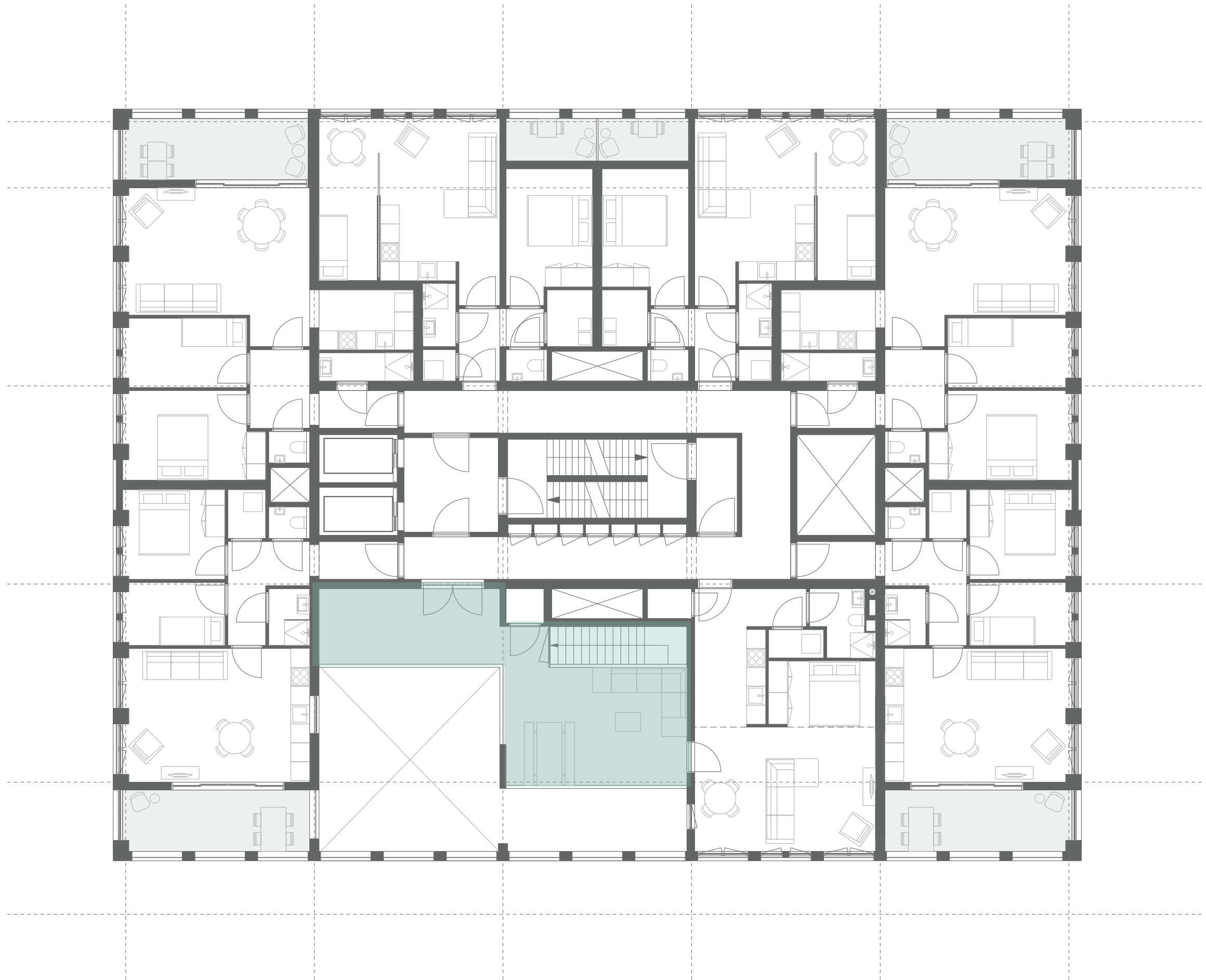


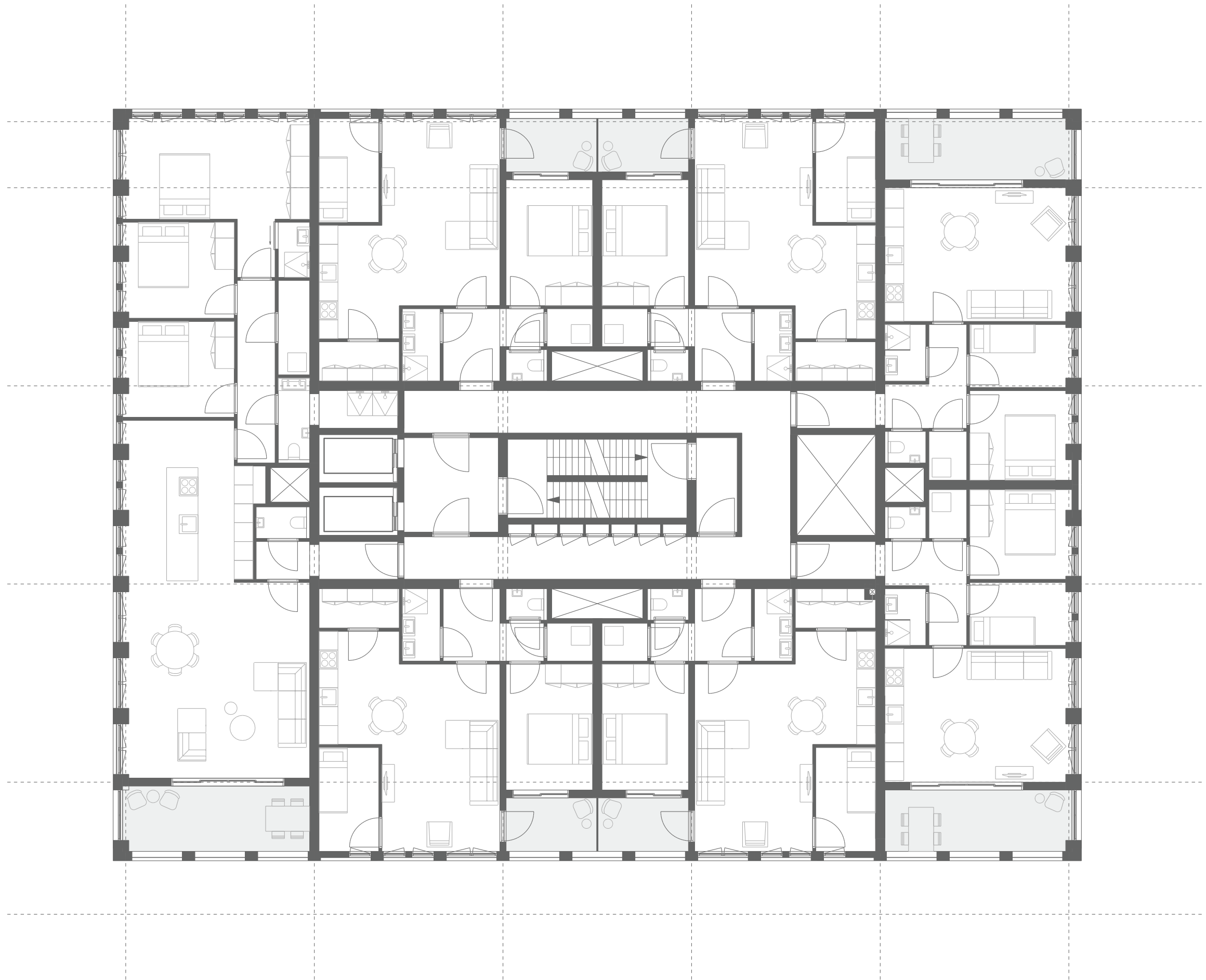














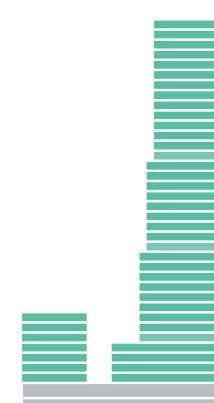
DWELLING



STREET

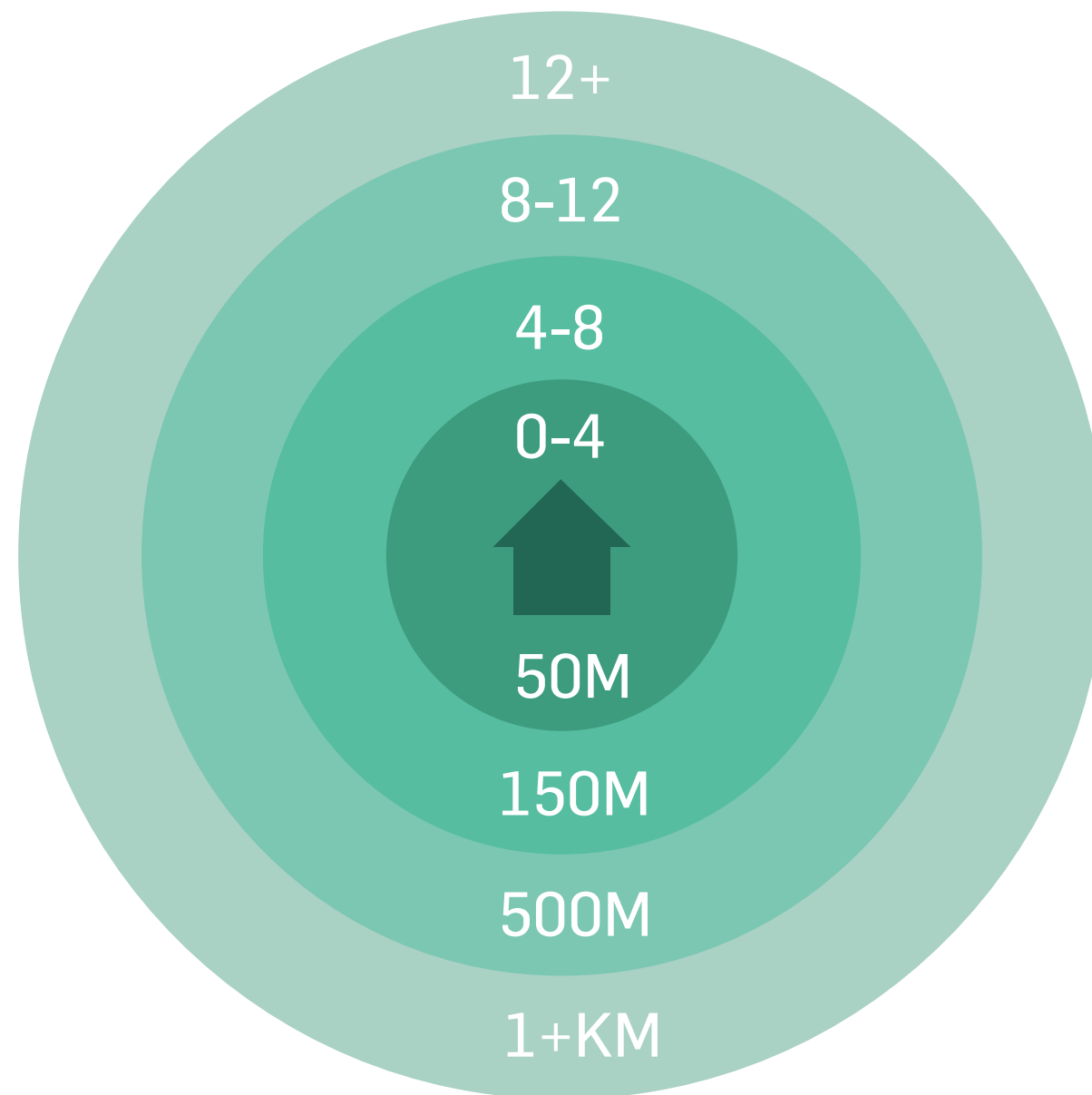


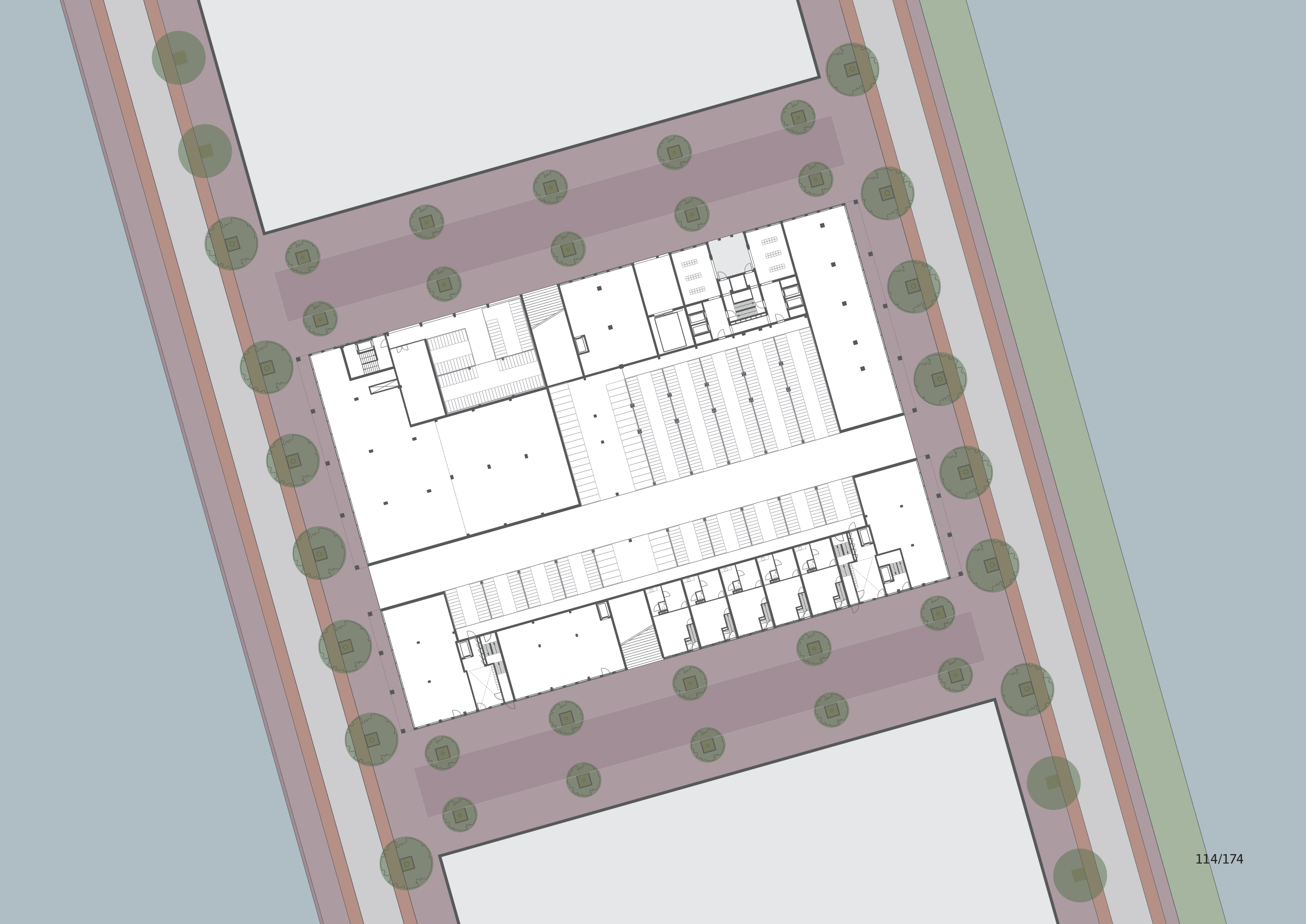
BLOCK

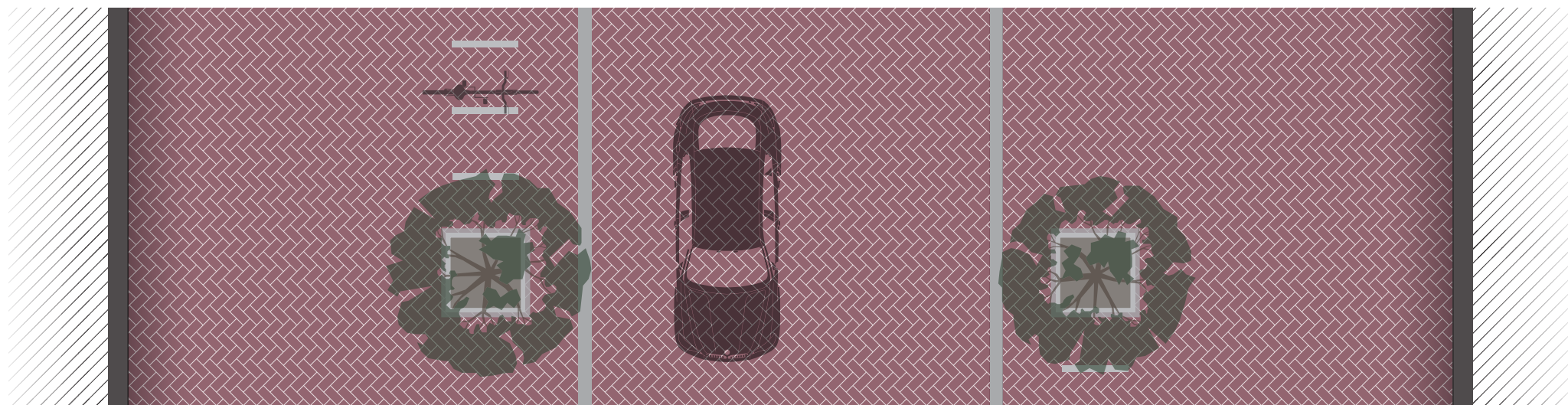
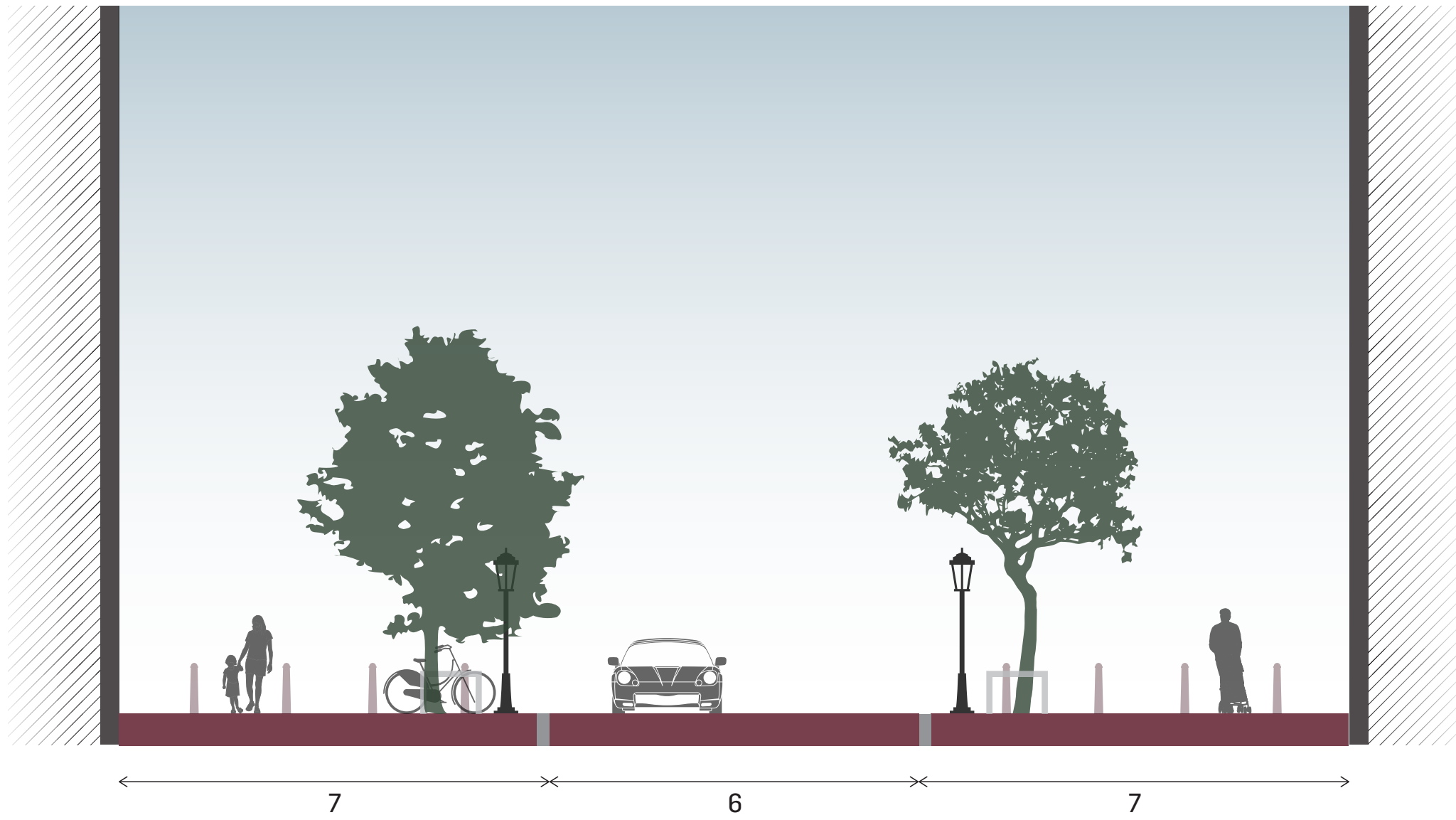


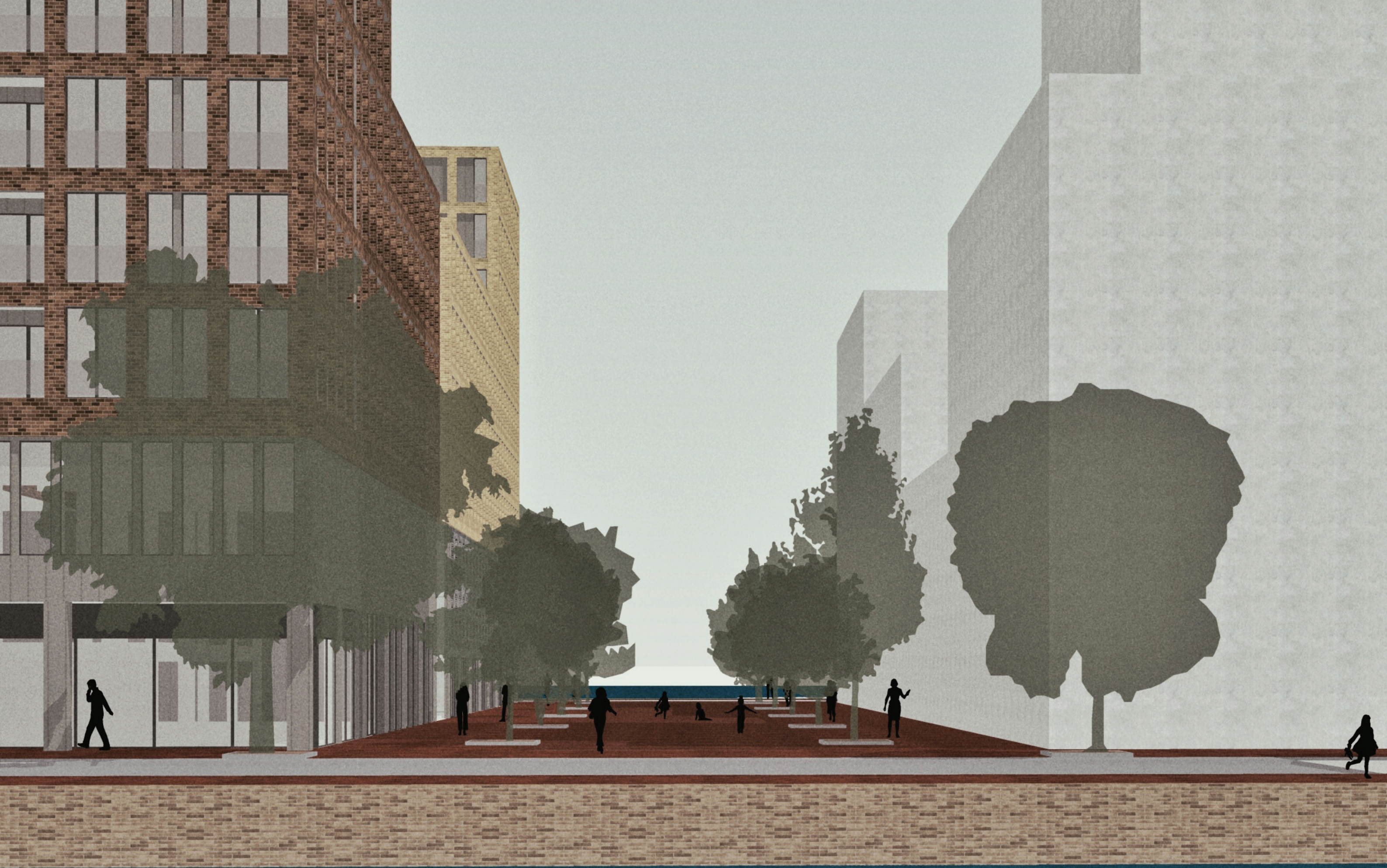
NEIGHBOURHOOD



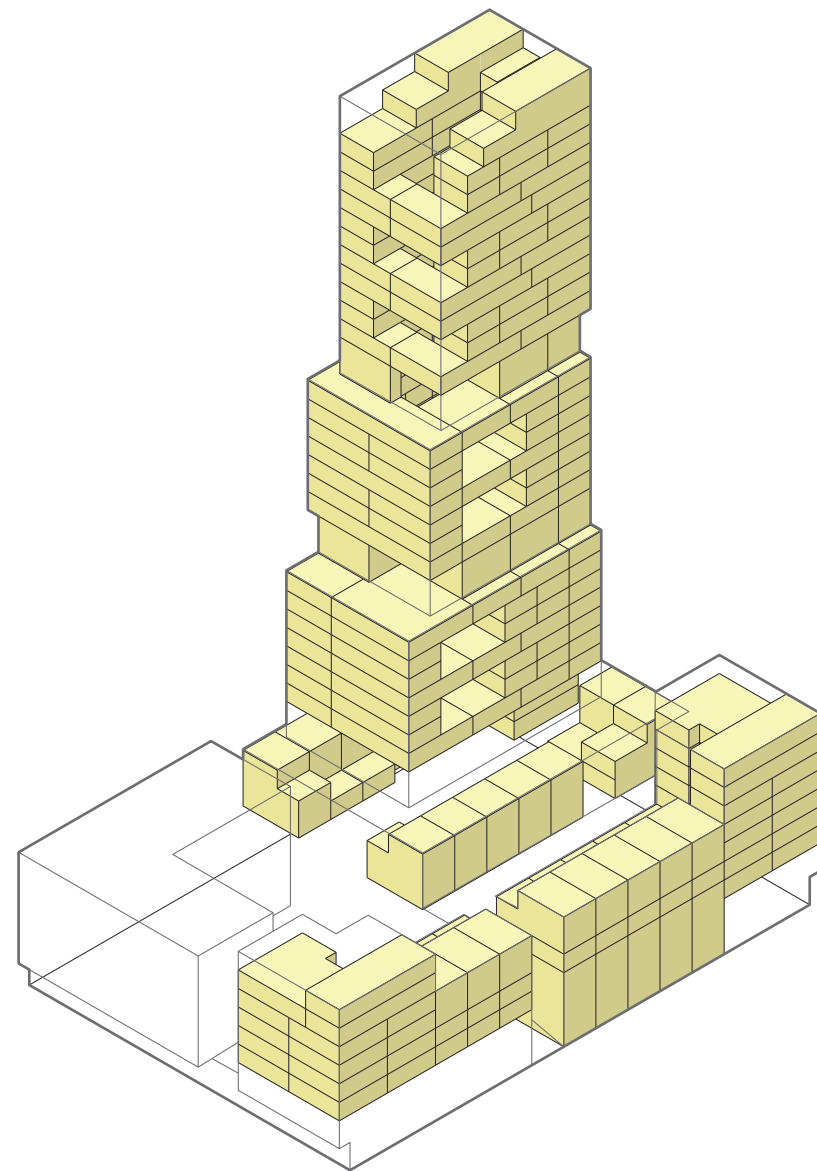




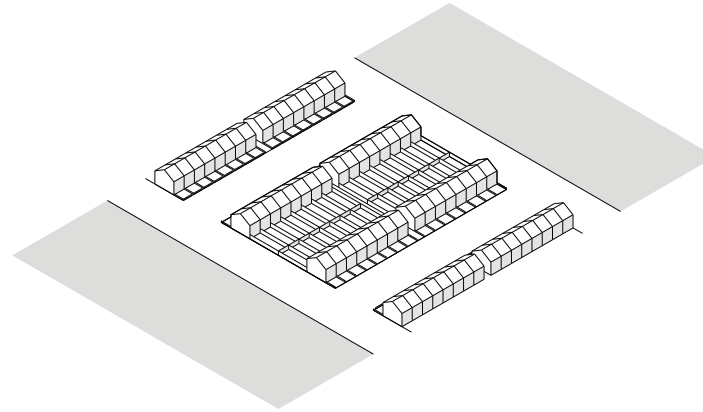




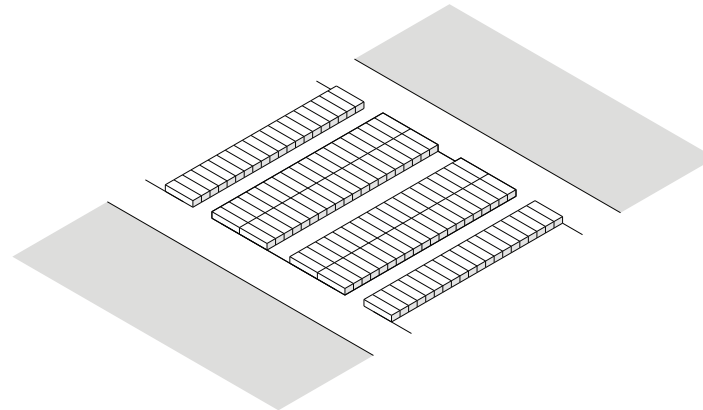




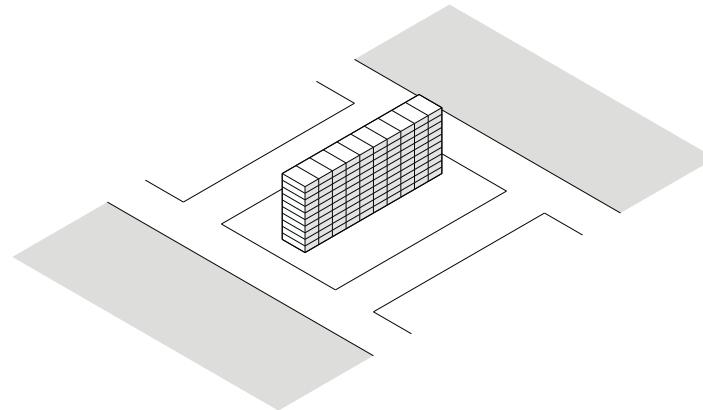
255 DWELLINGS



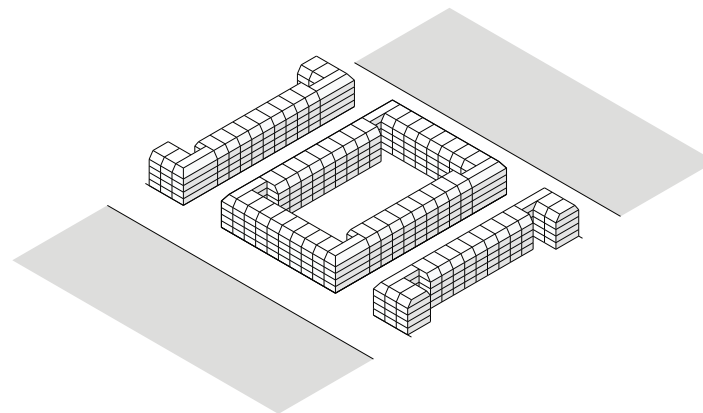
32 DWELLINGS



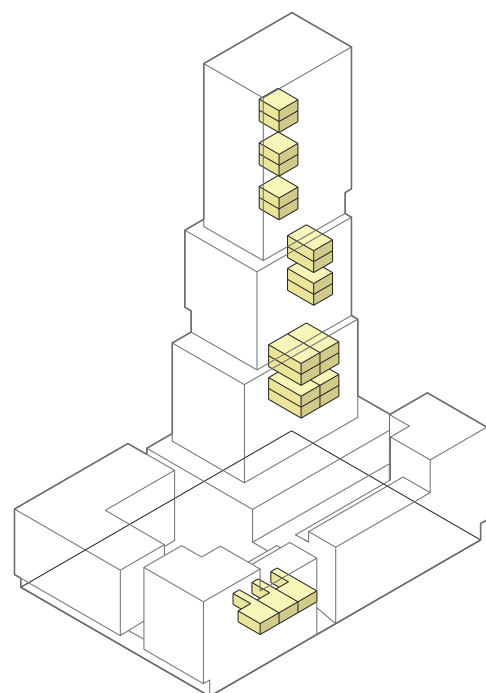
60 DWELLINGS



100 DWELLINGS

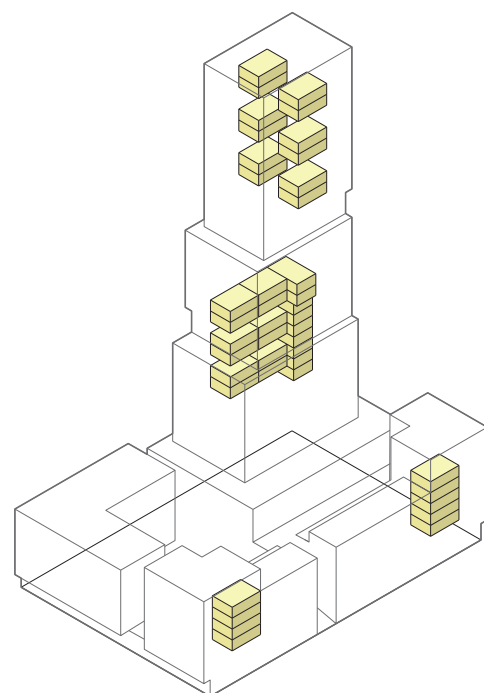


120 DWELLINGS



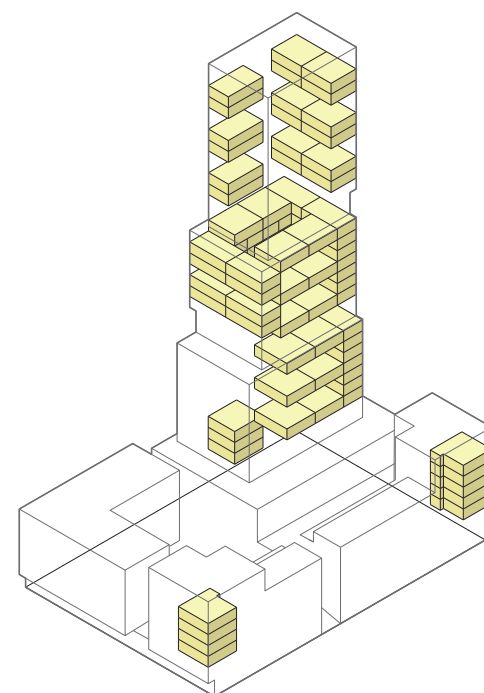
STUDIO'S

<50 M²



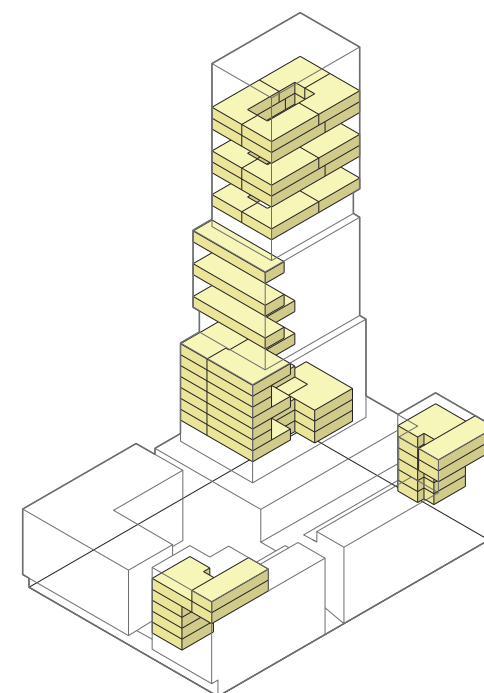
SMALL APARTMENTS

50 M²



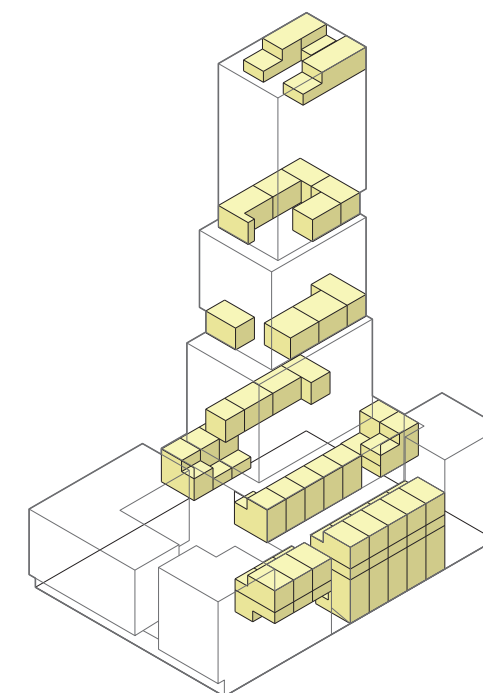
MEDIUM APARTMENTS

50-80 M²



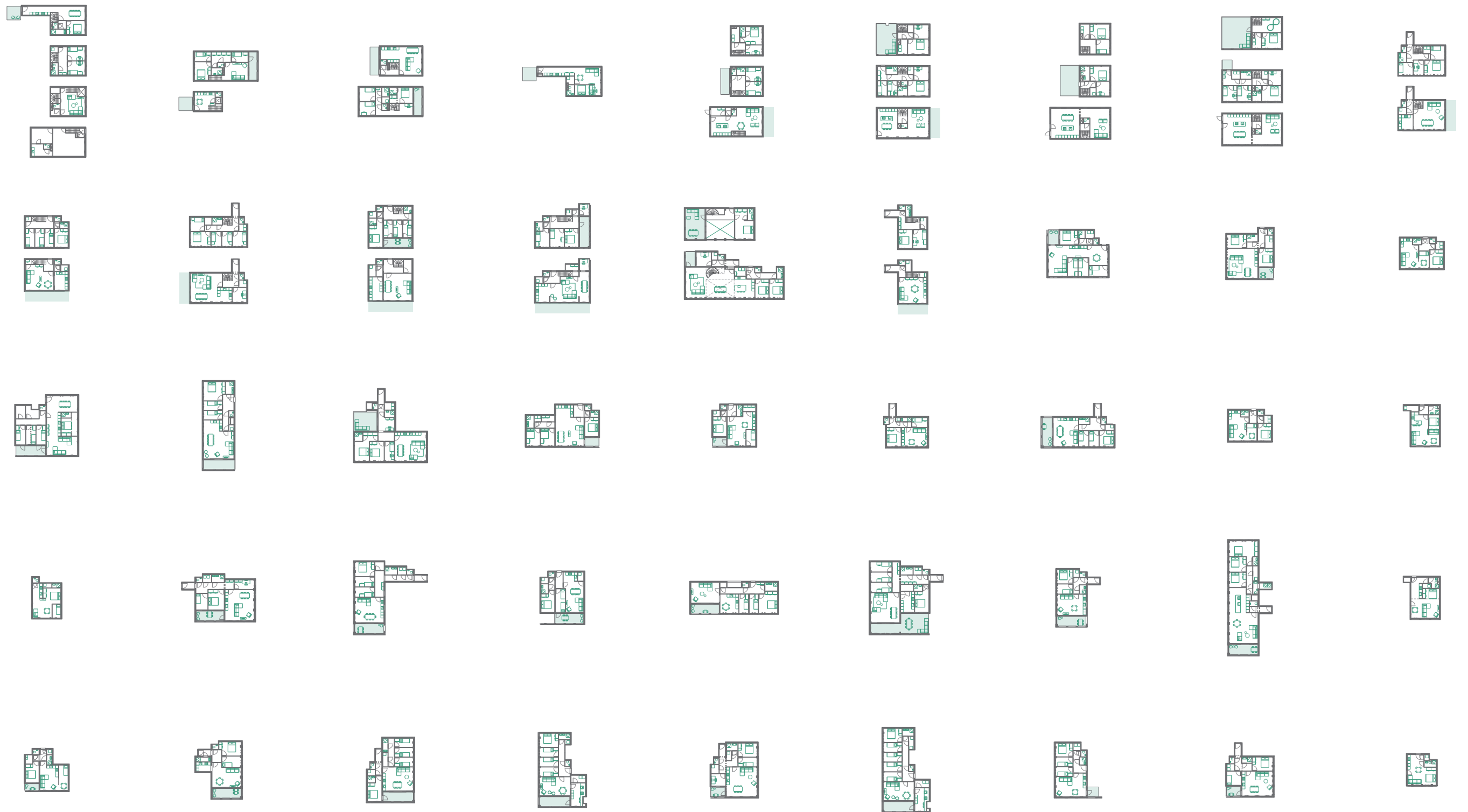
LARGE APARTMENTS

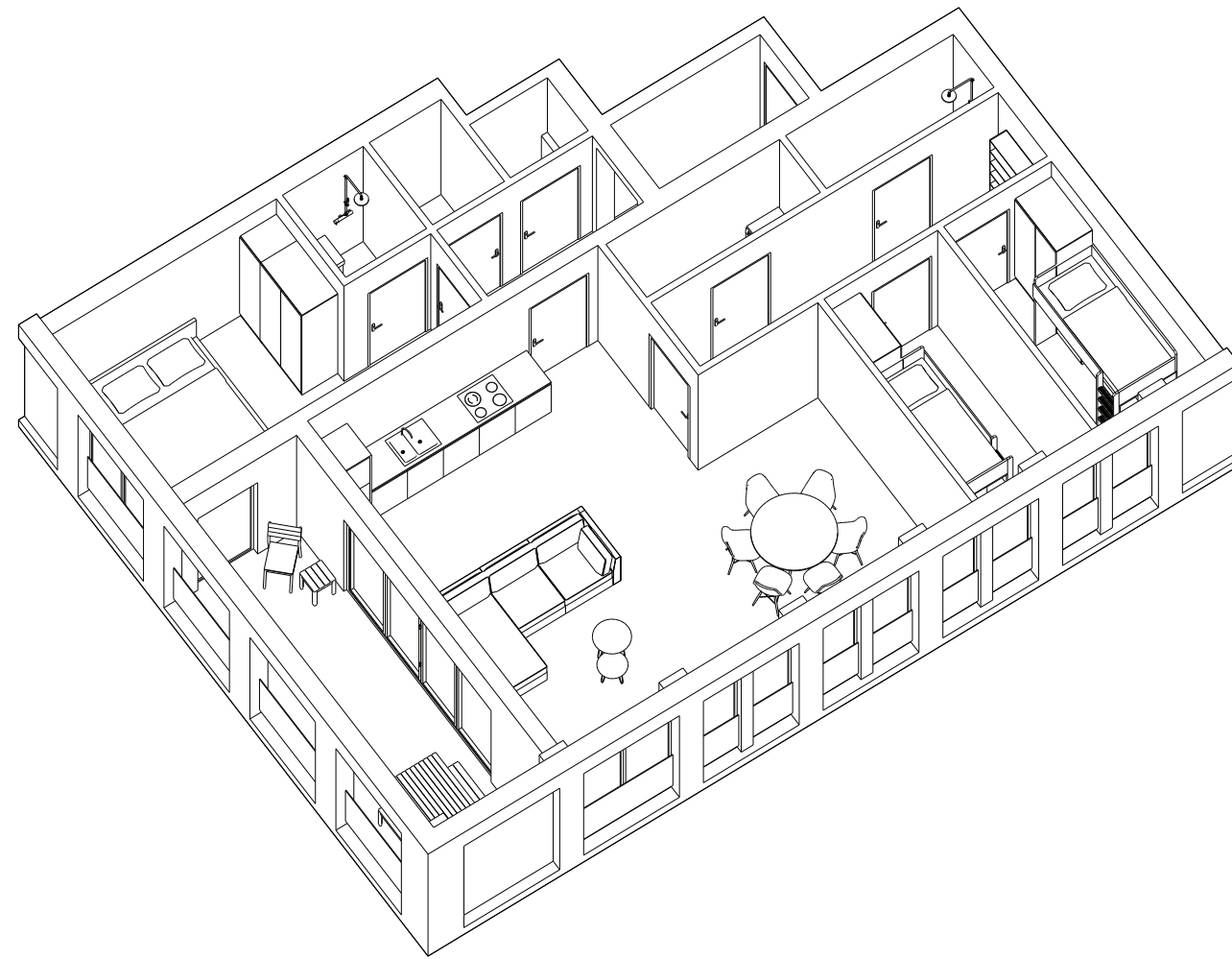
80+ M²

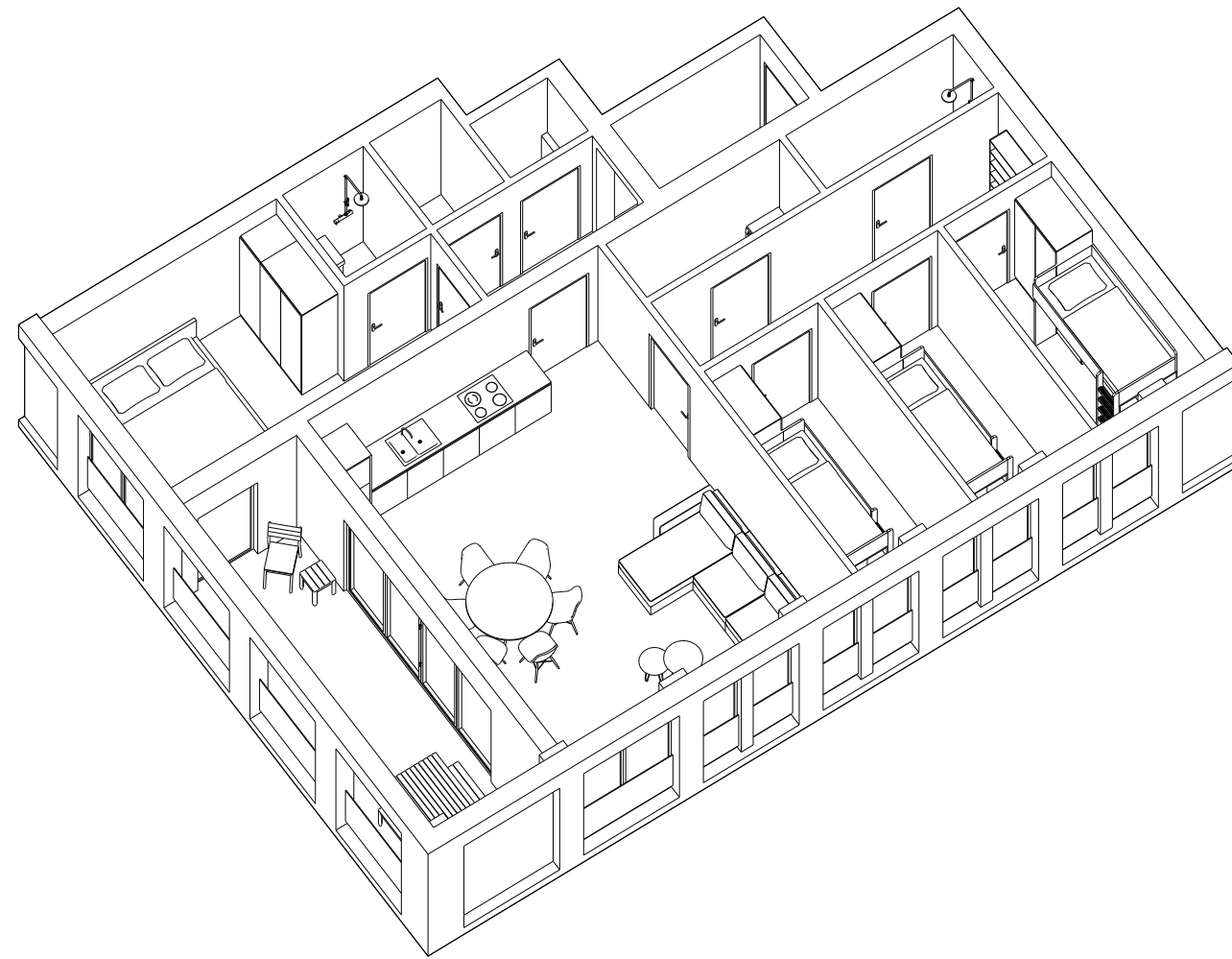


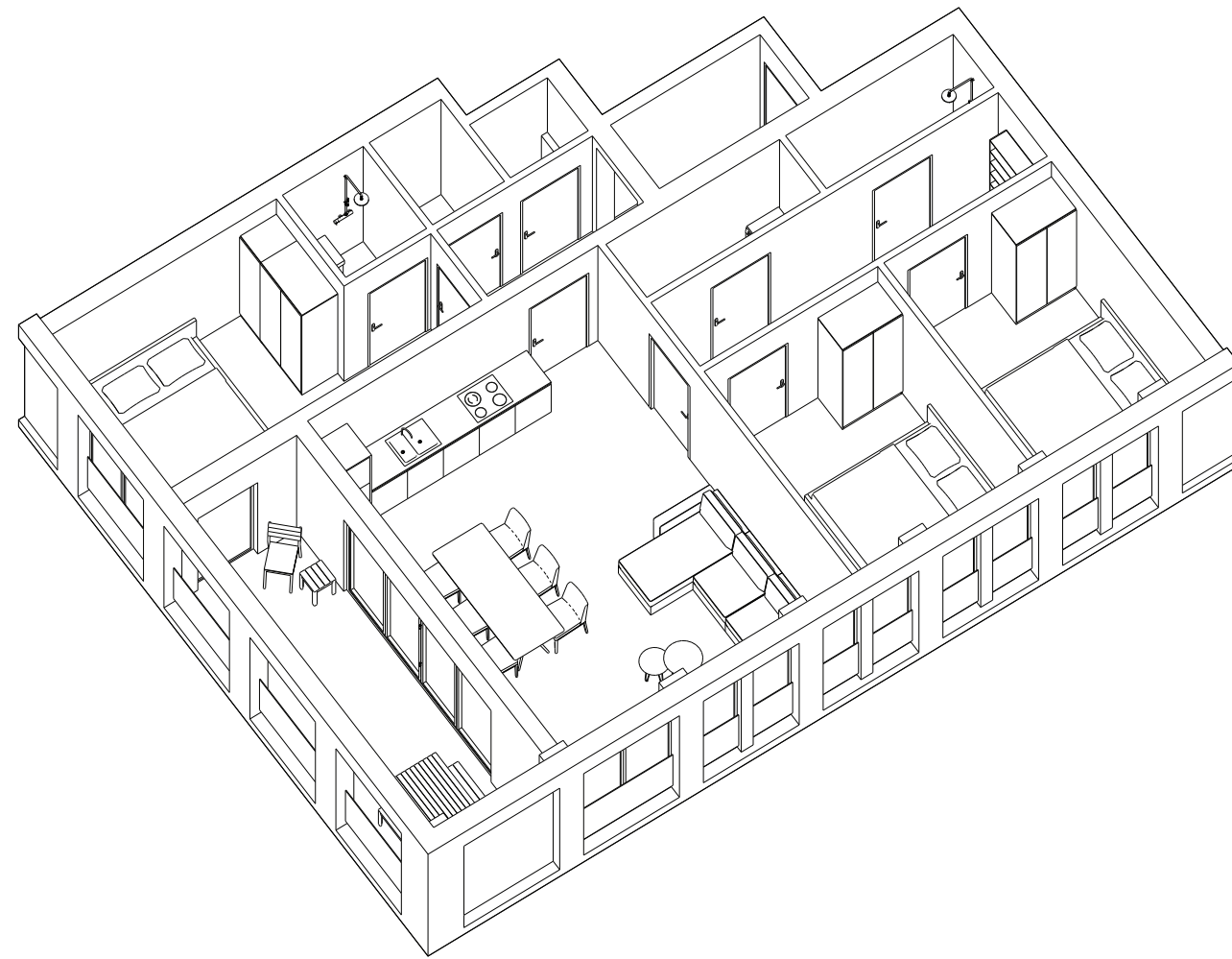
MULTILAYER

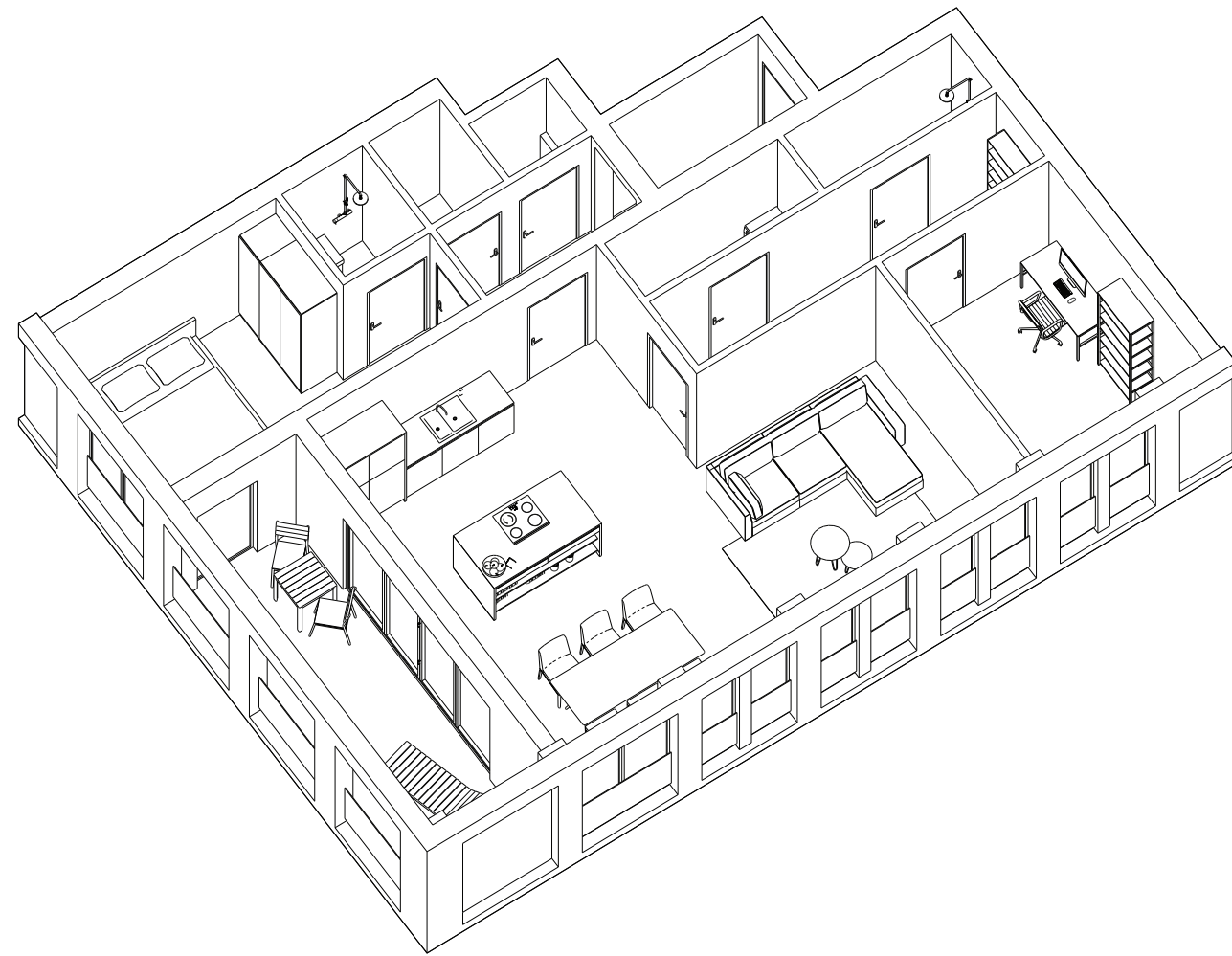
80+ M²

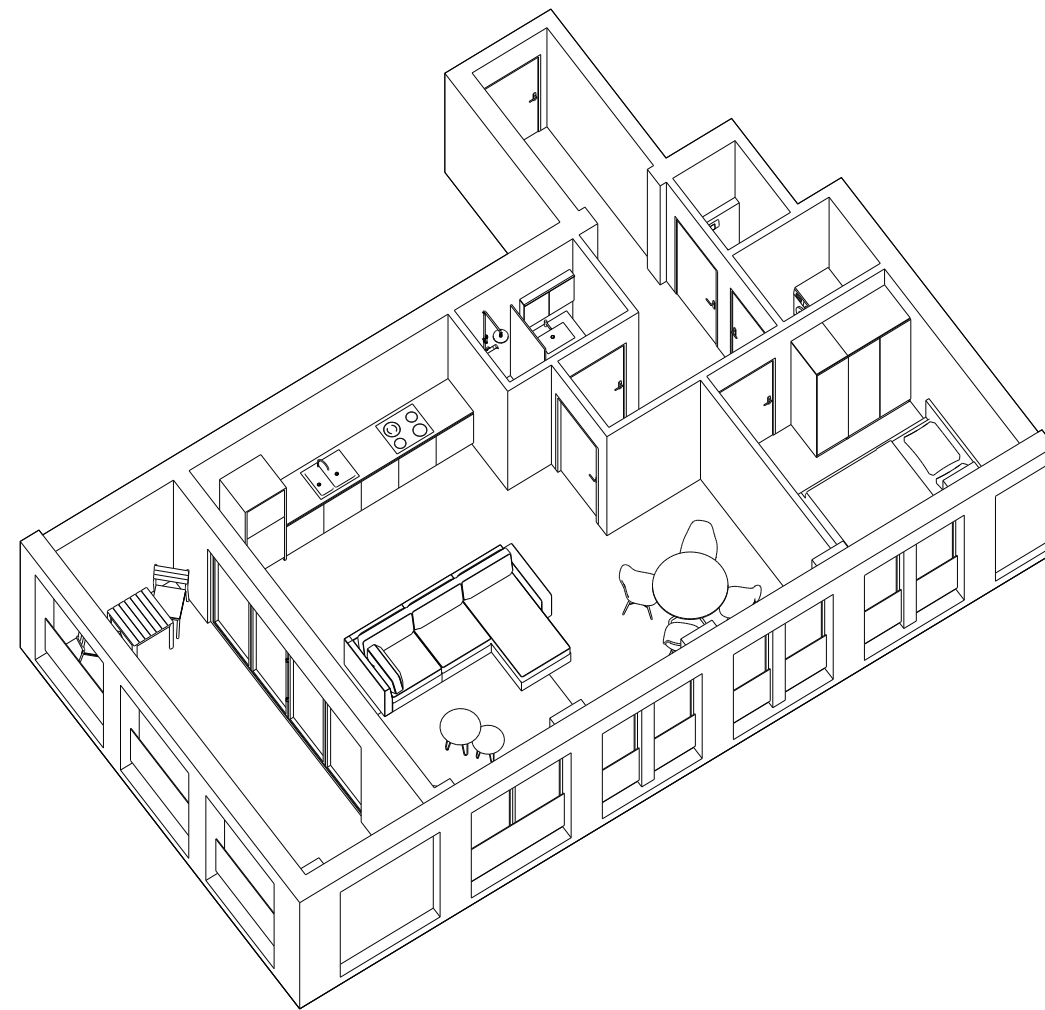


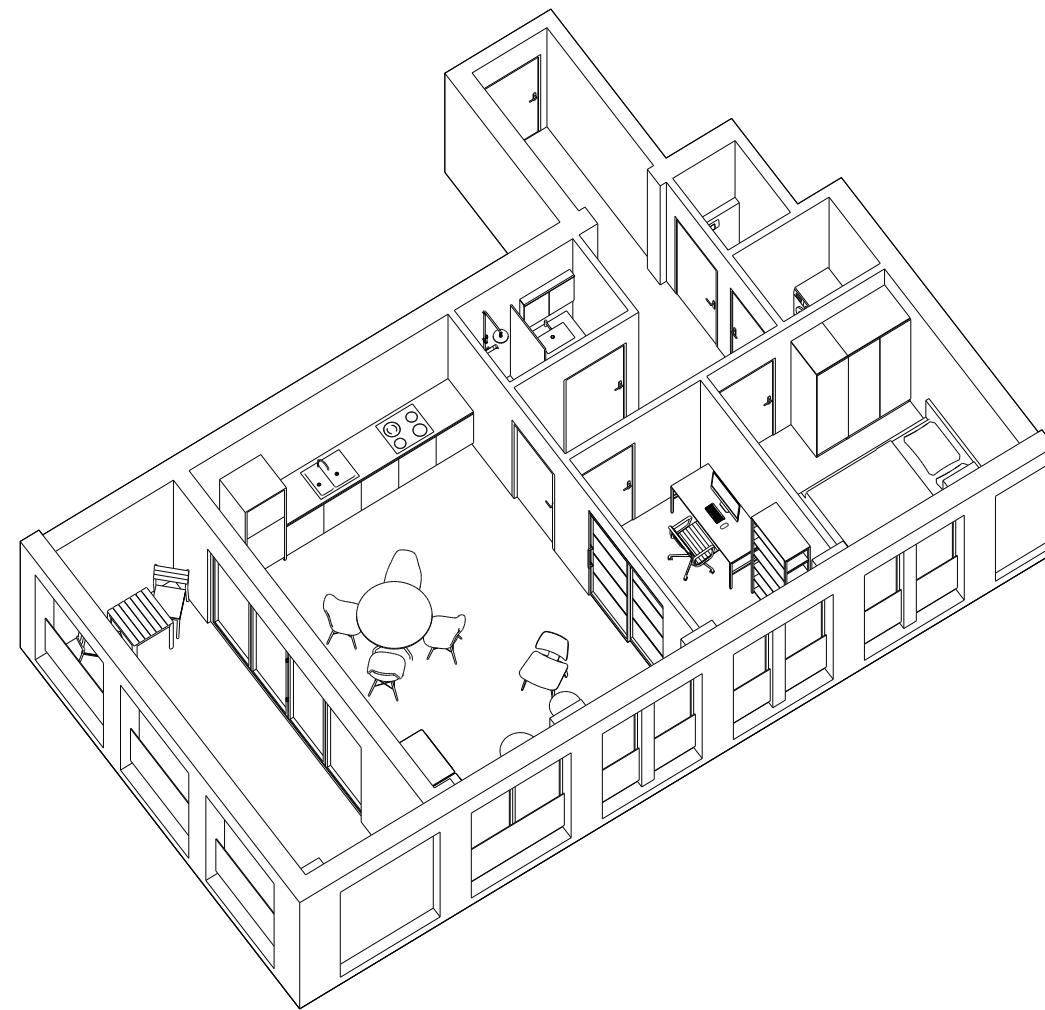


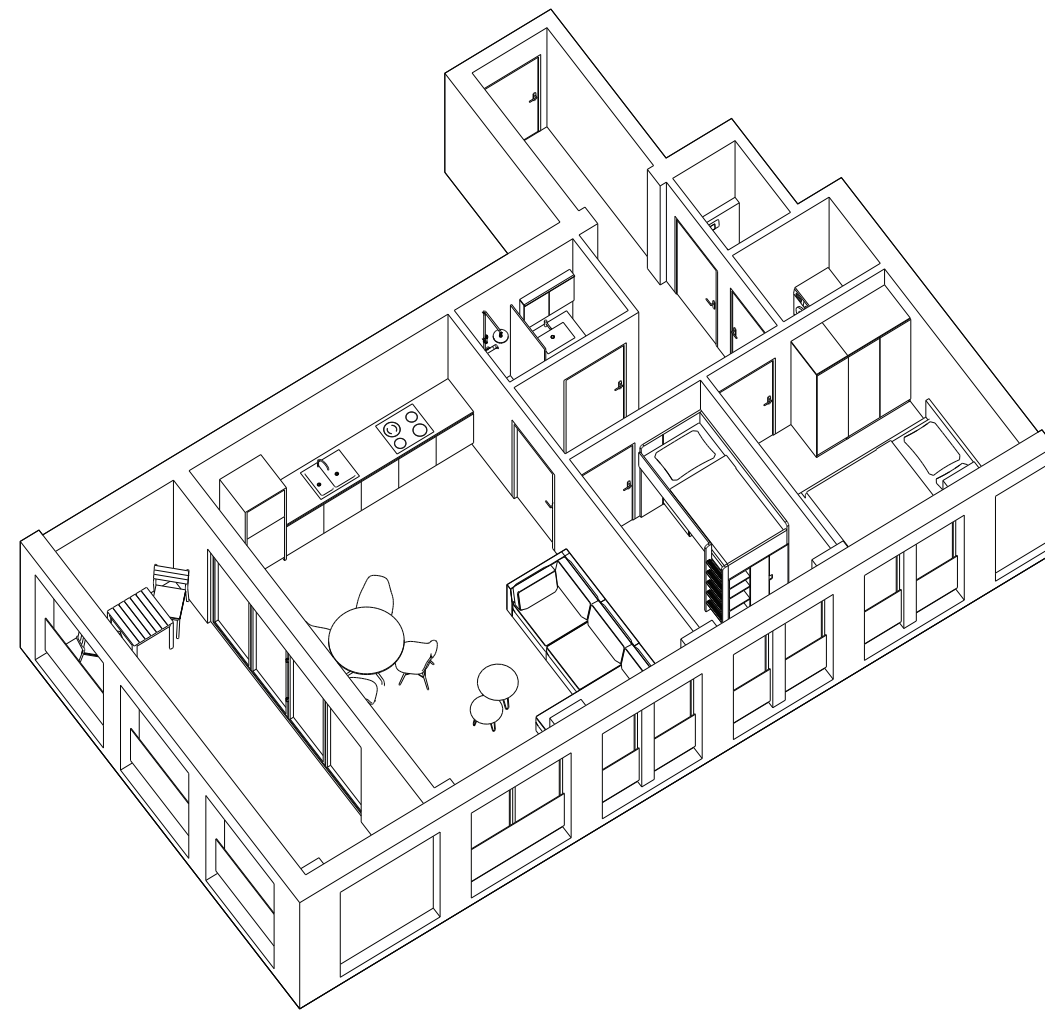


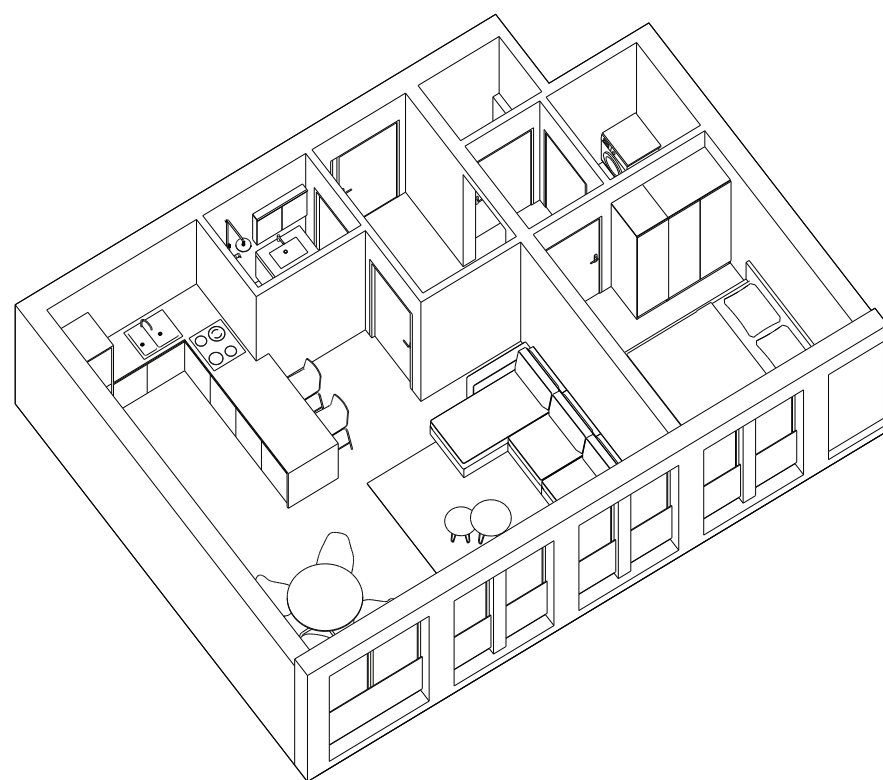


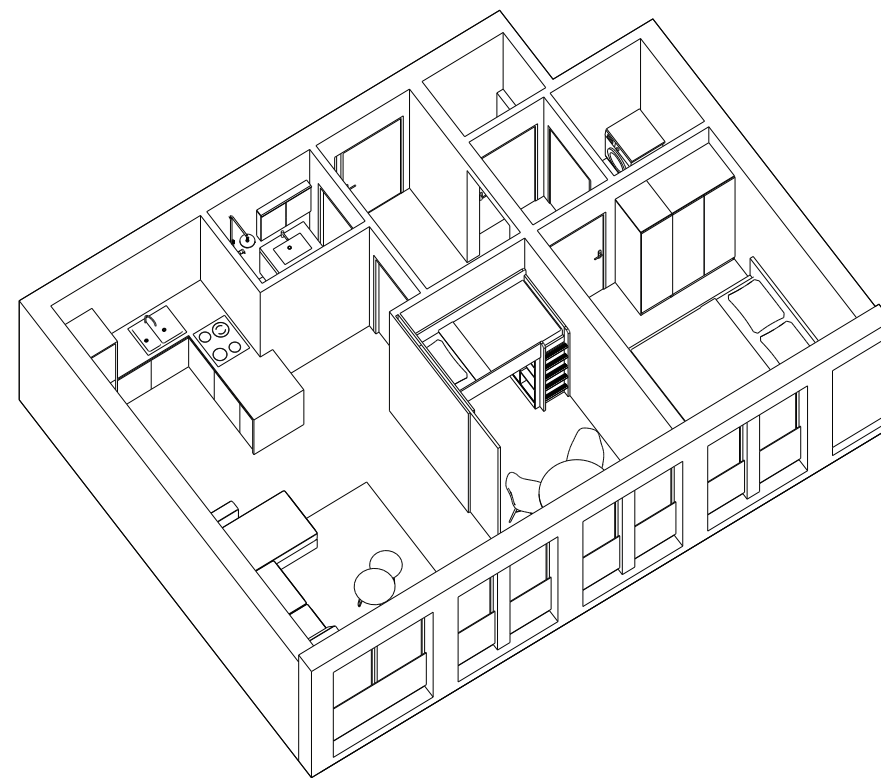


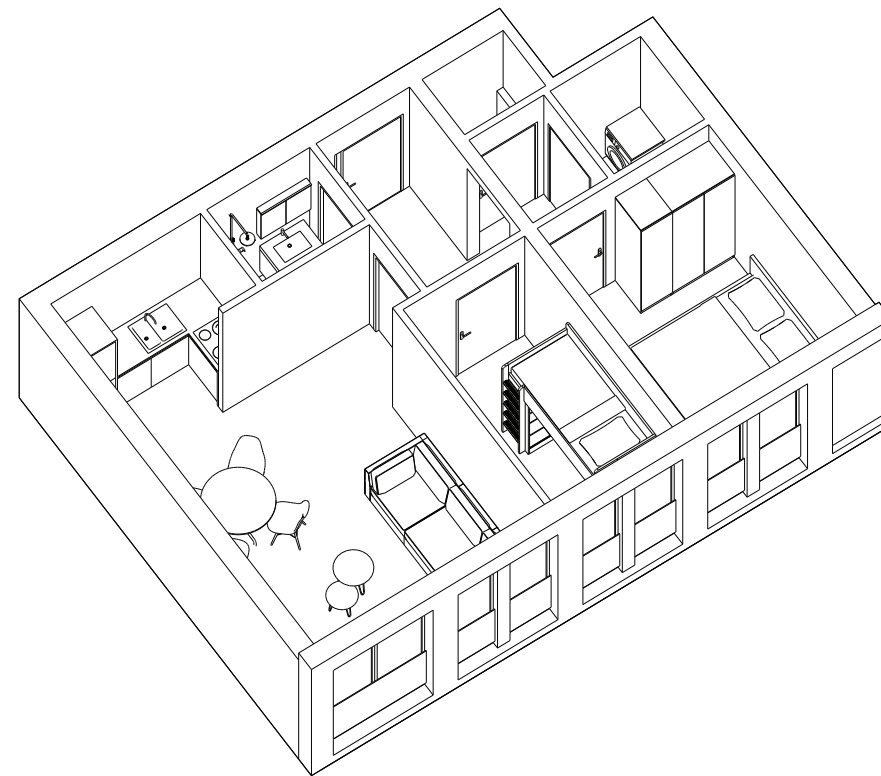


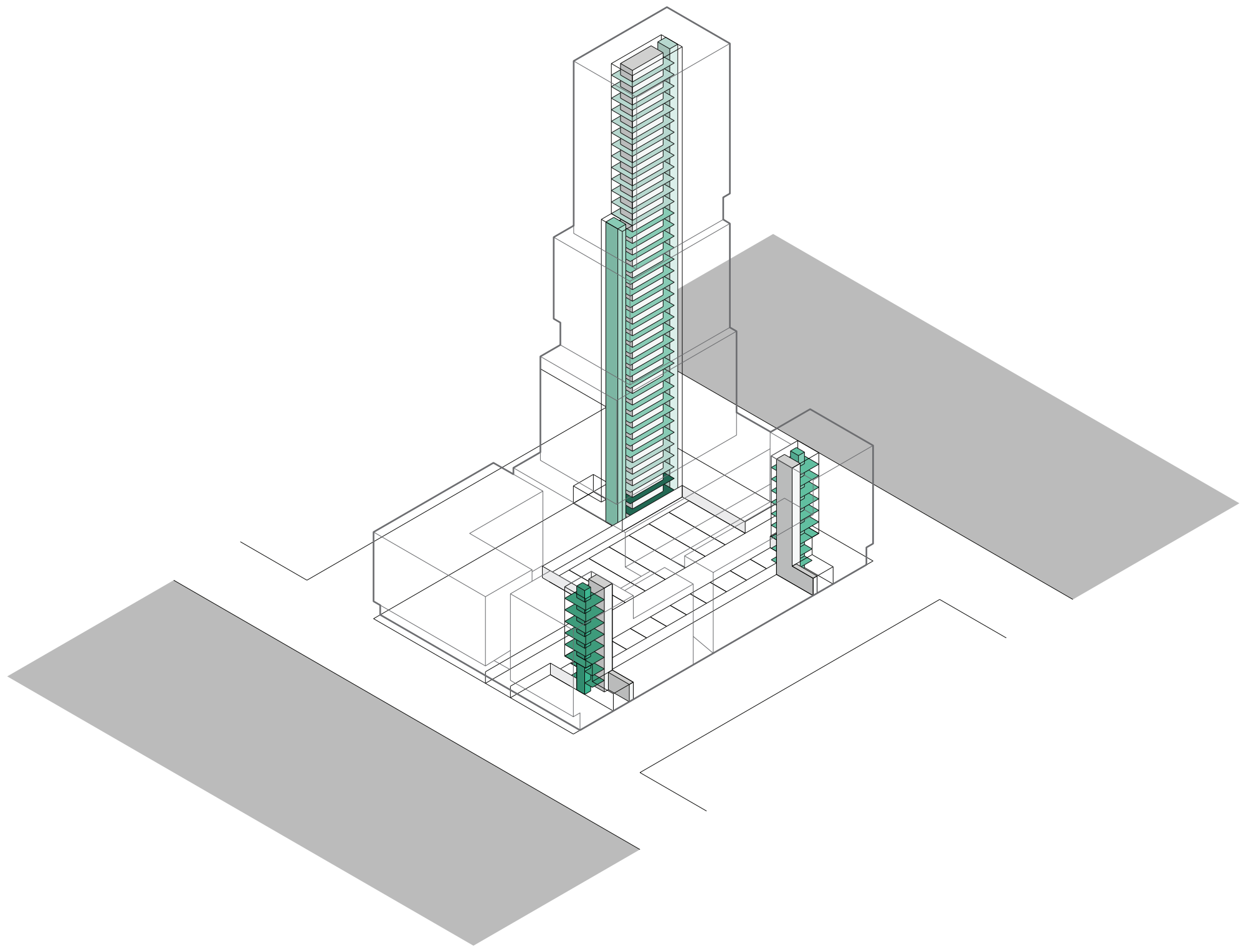


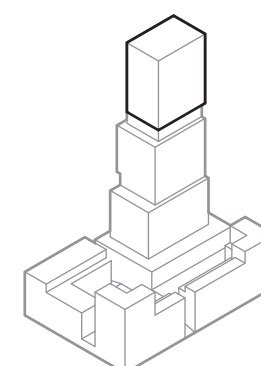
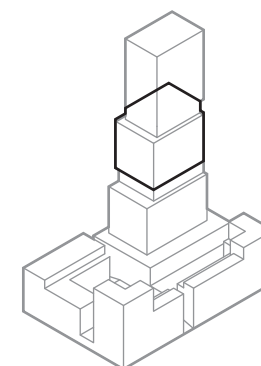
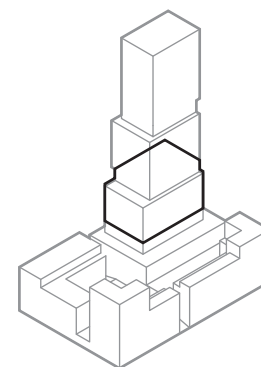
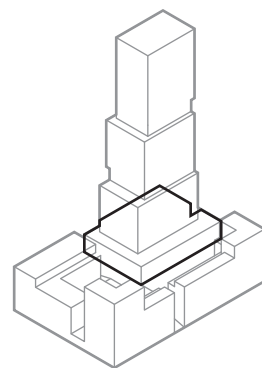
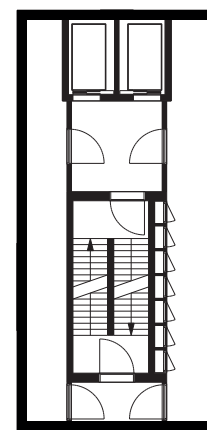
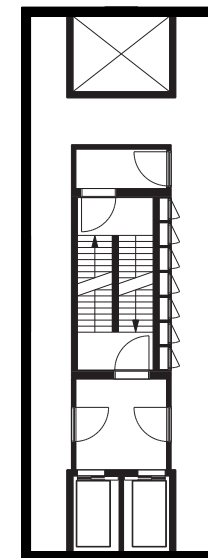
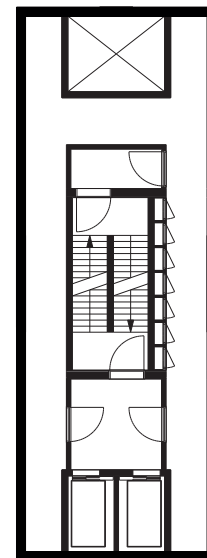
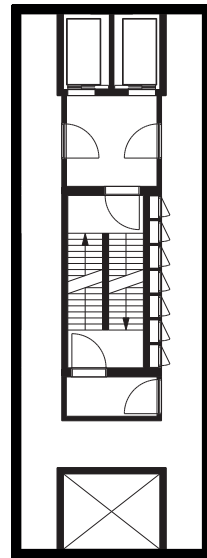
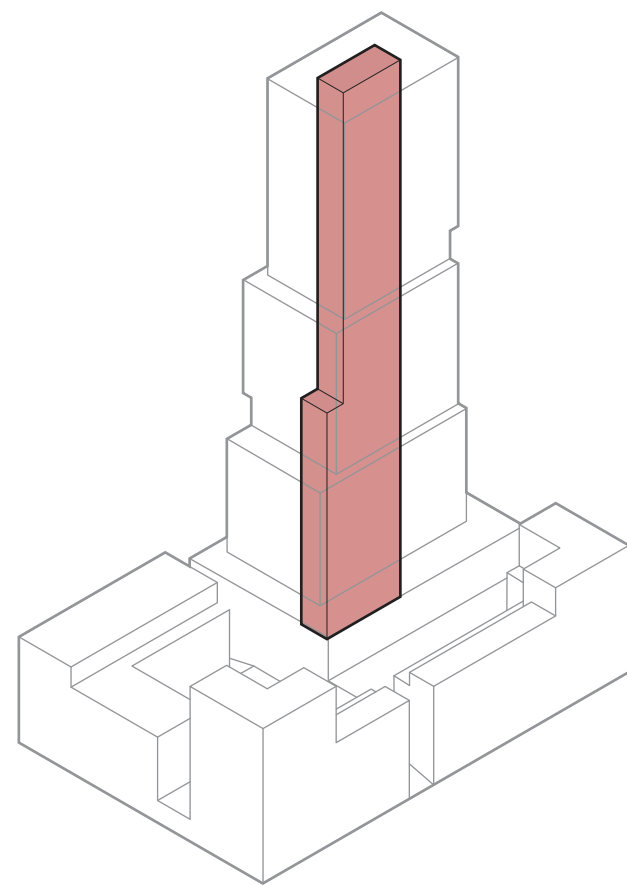


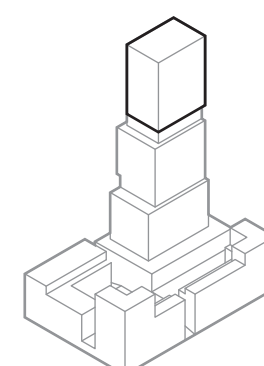
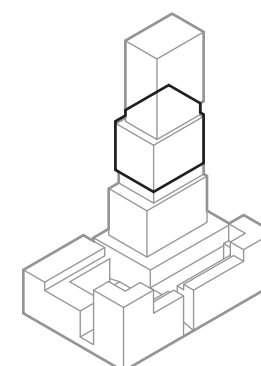
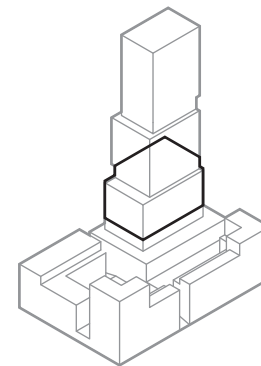
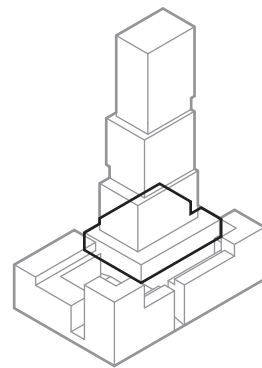
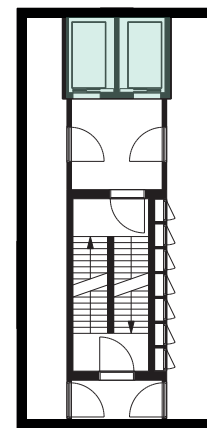
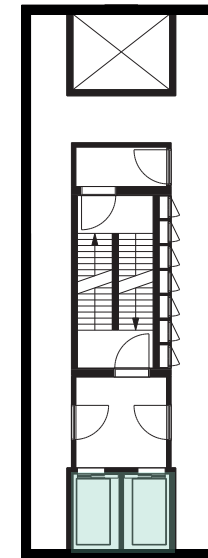
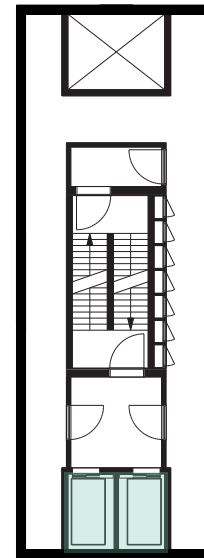
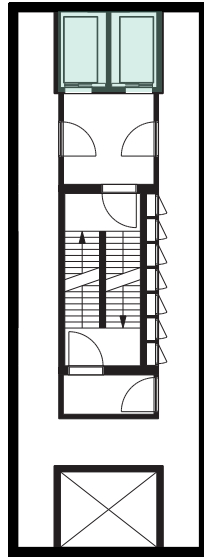
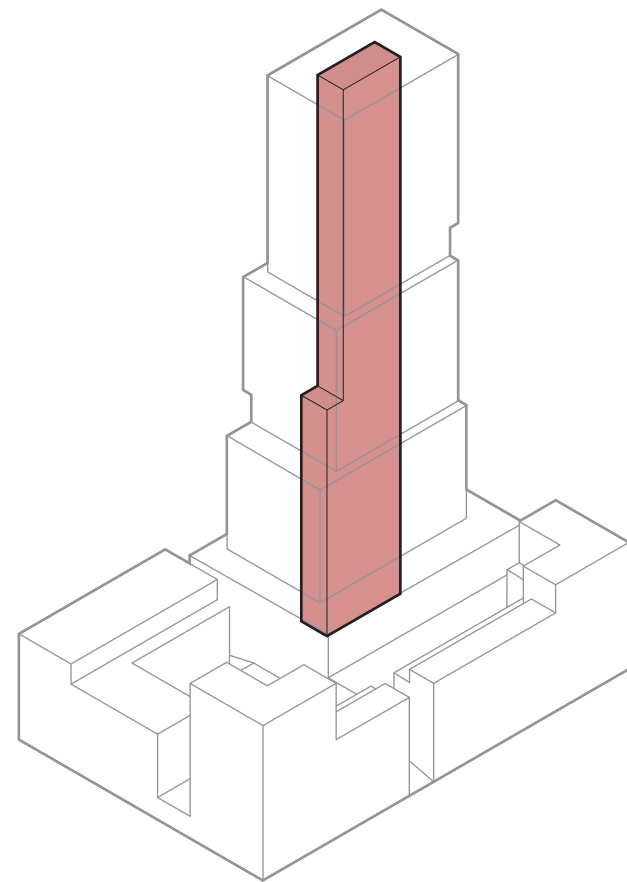


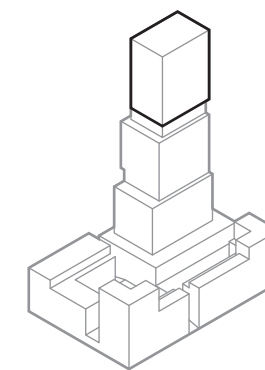
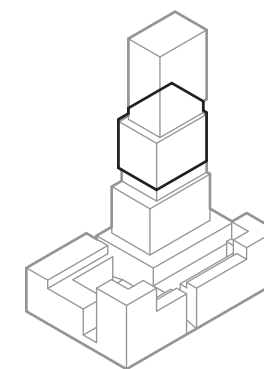
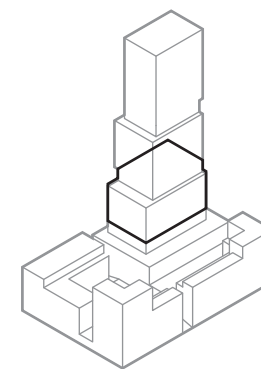
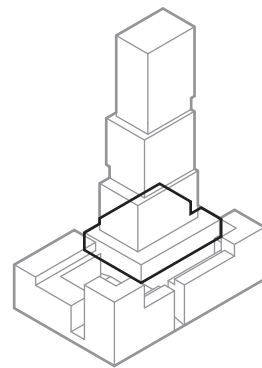
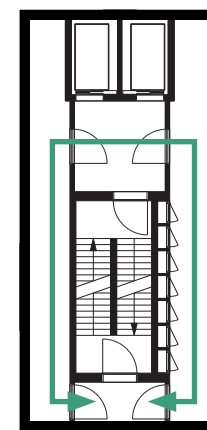
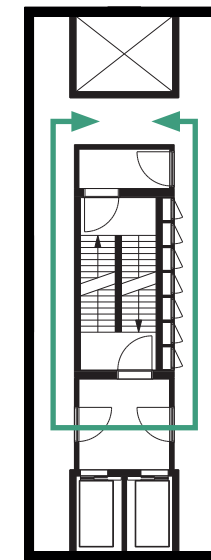
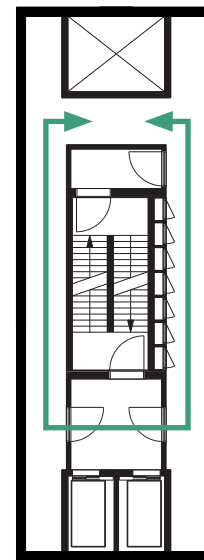
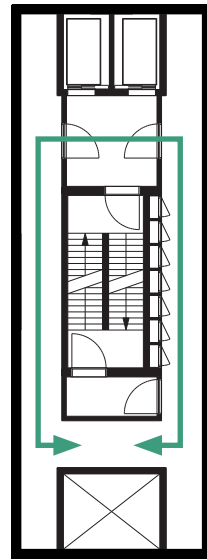
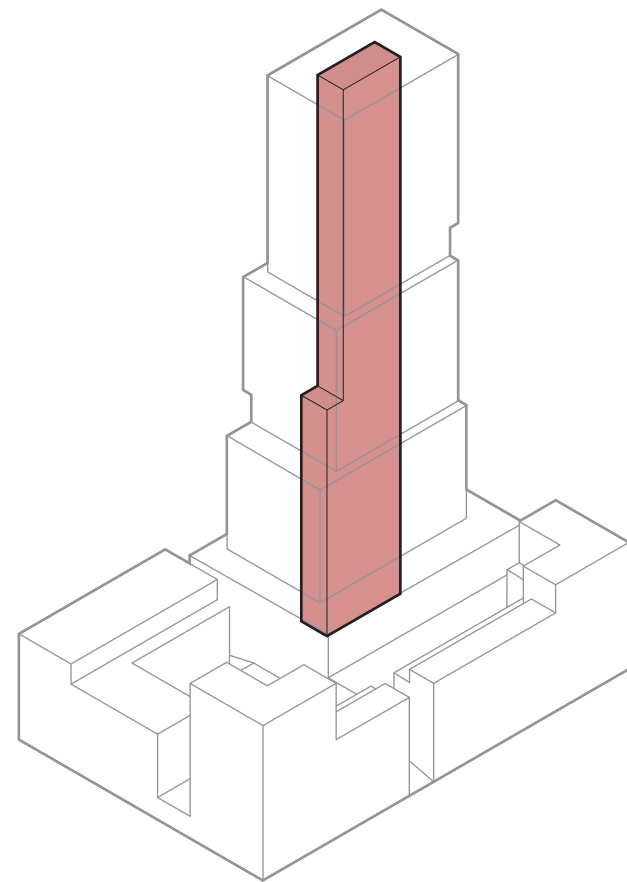


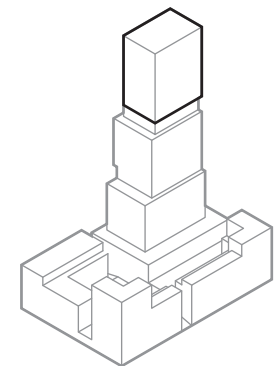
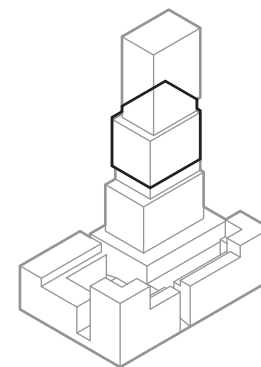
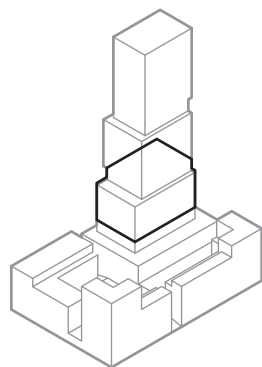
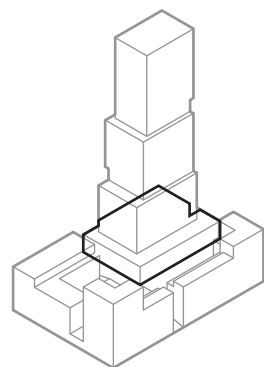
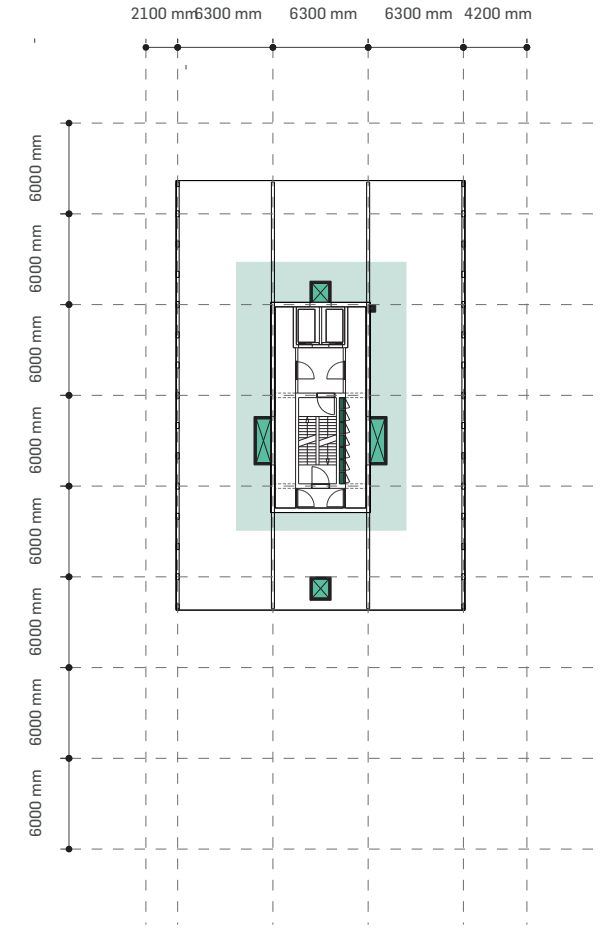
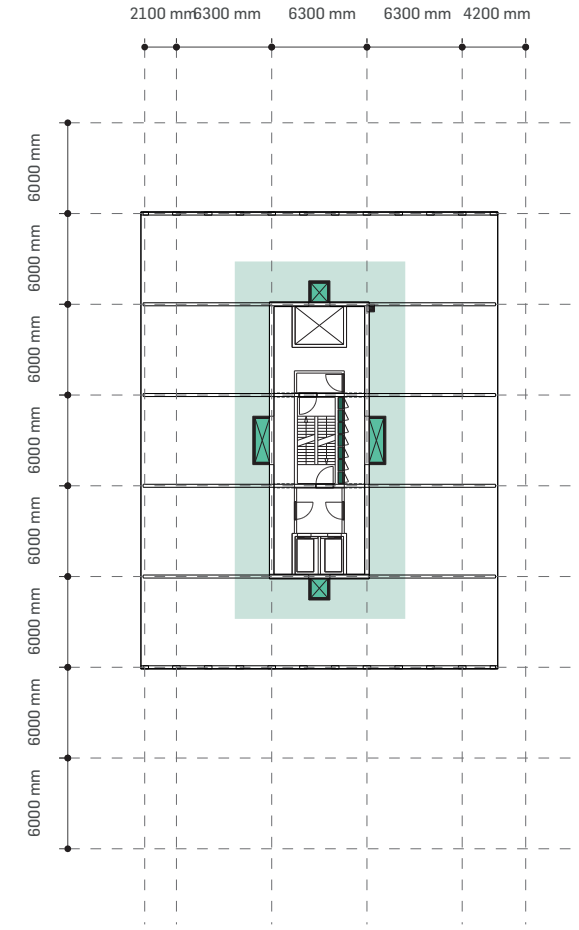
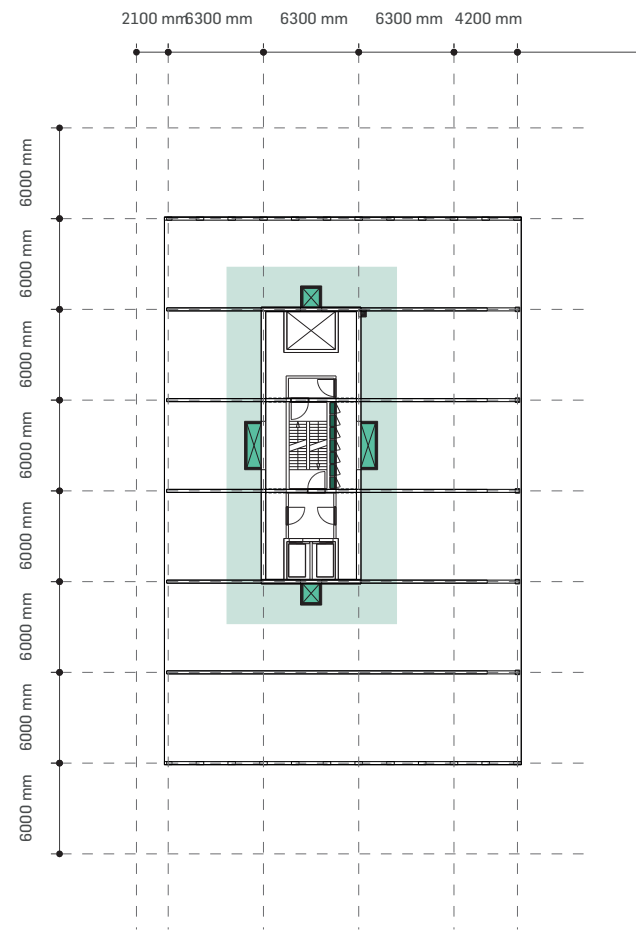
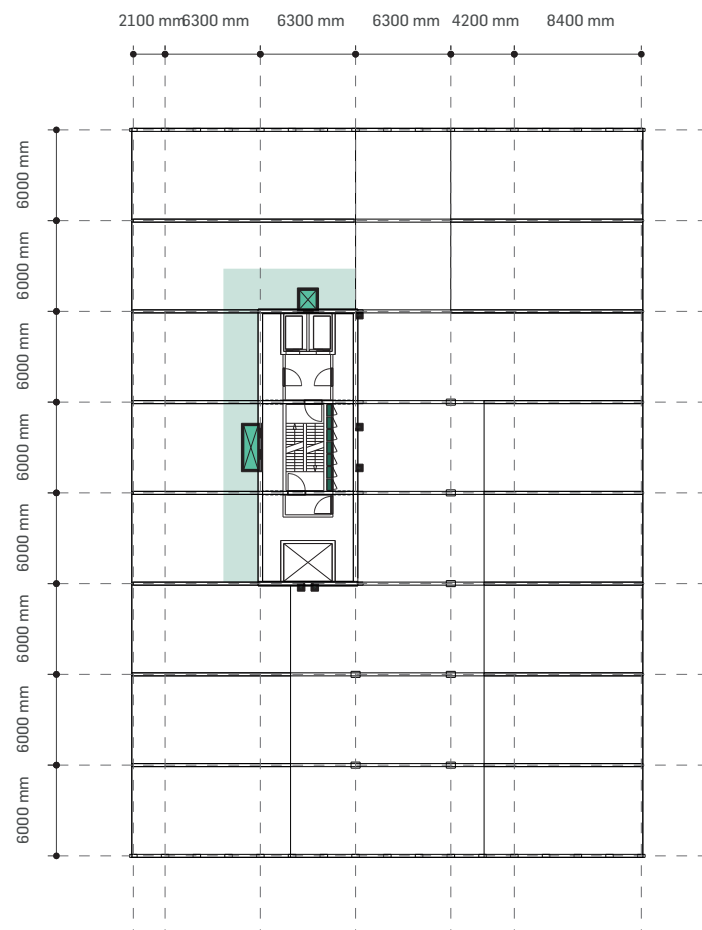


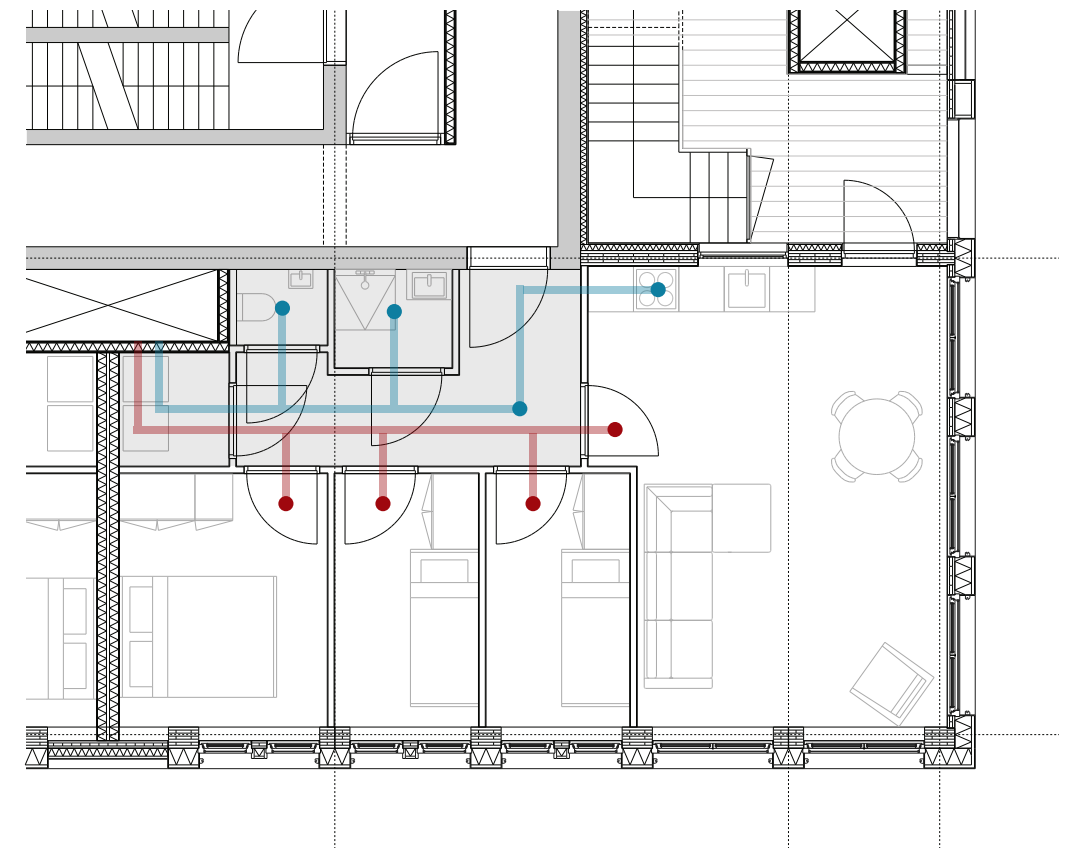
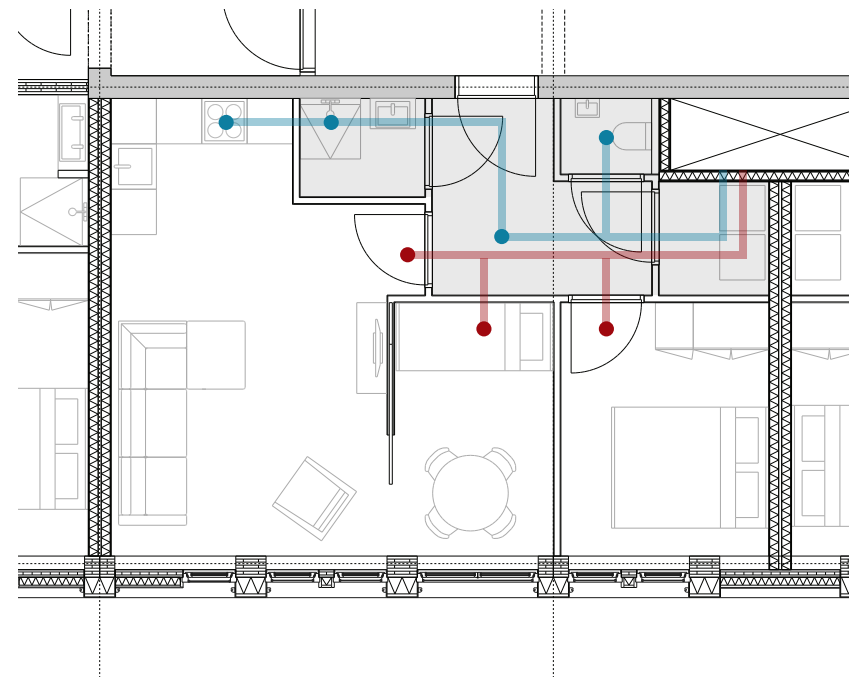
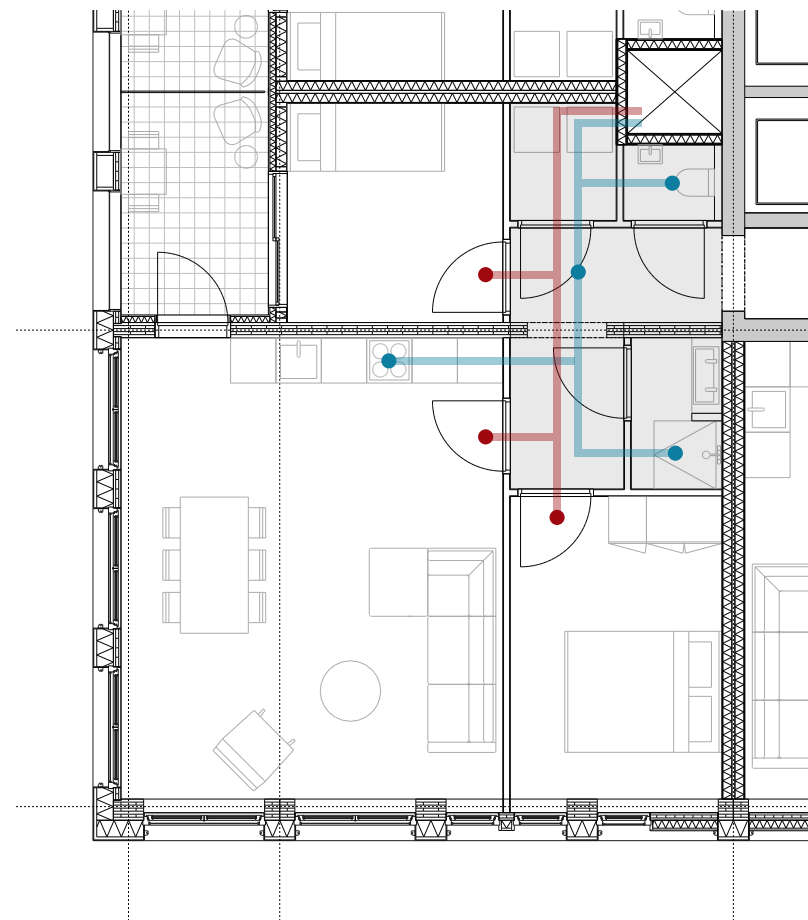


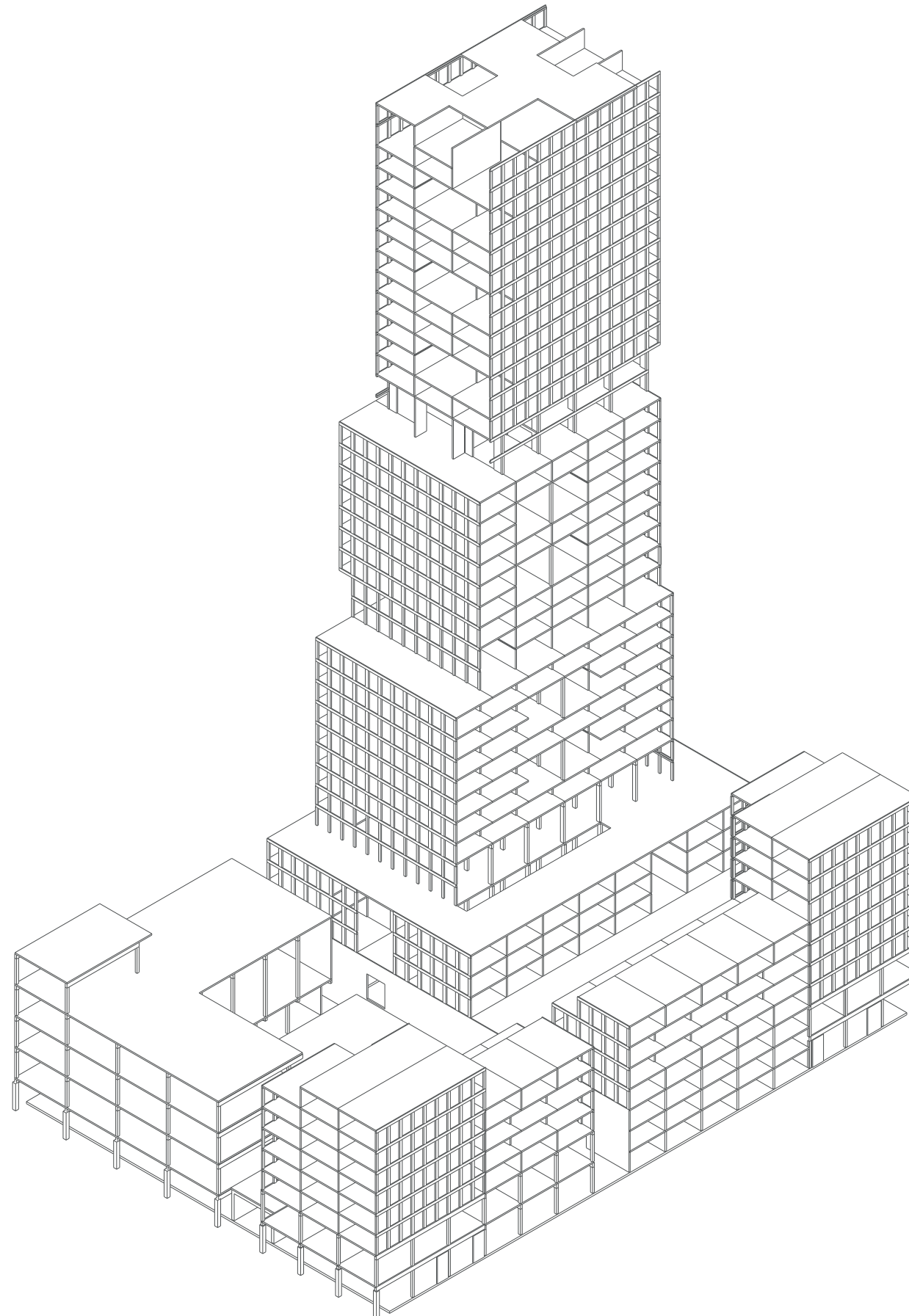






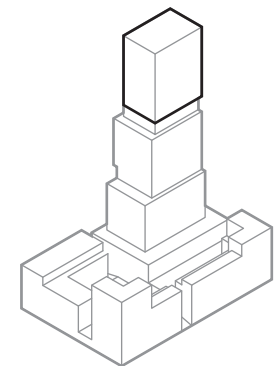
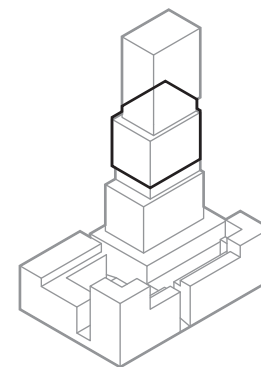
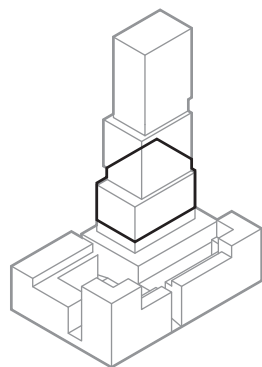
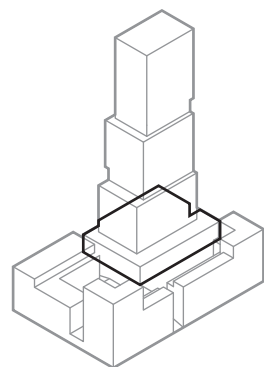
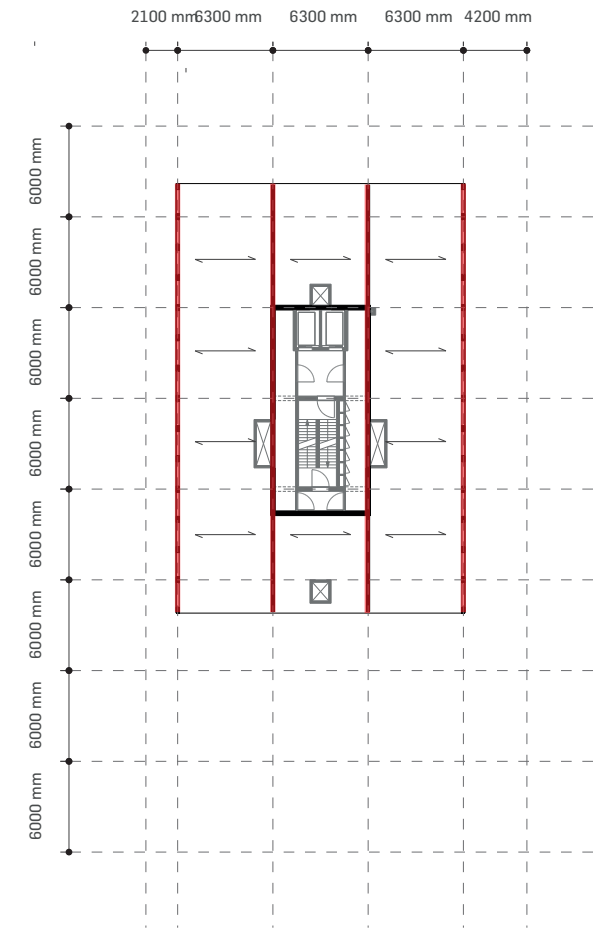
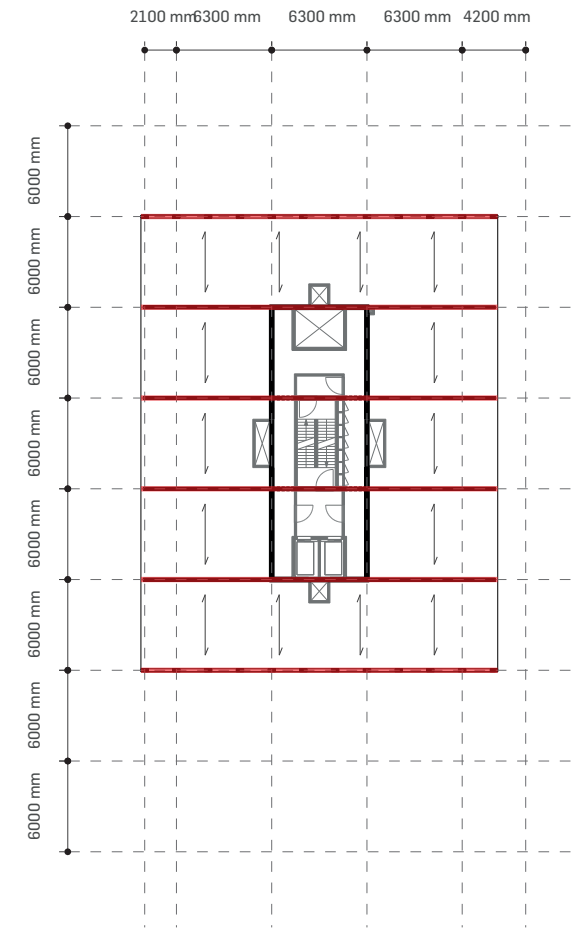
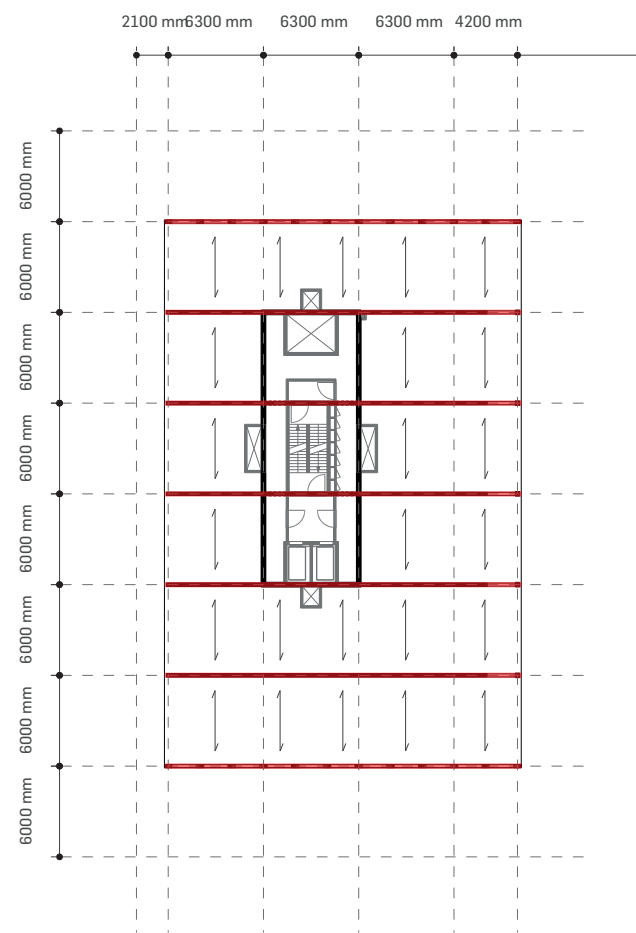
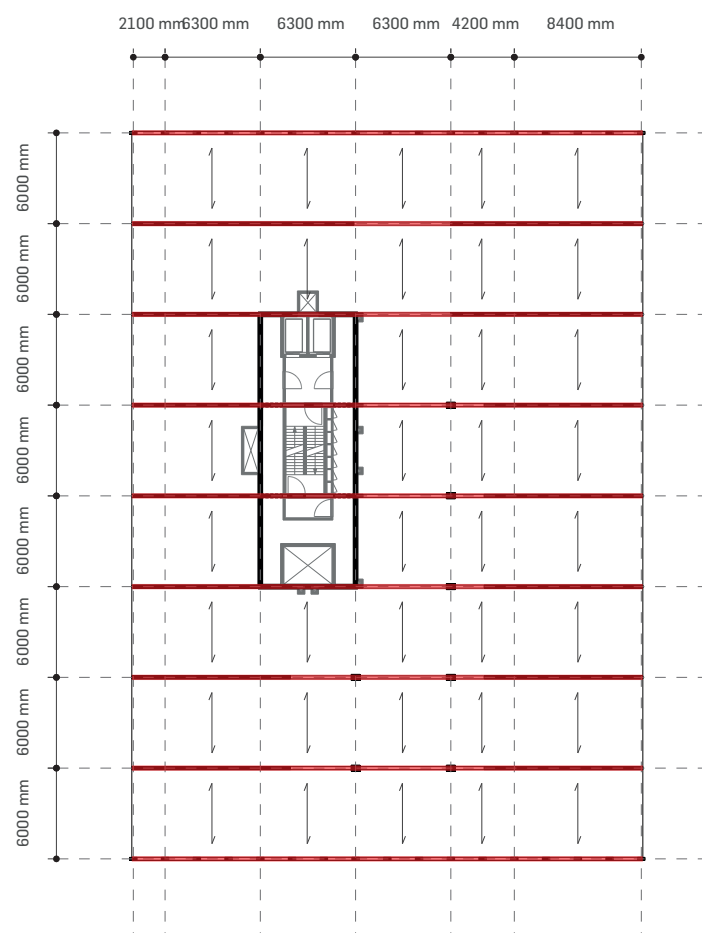


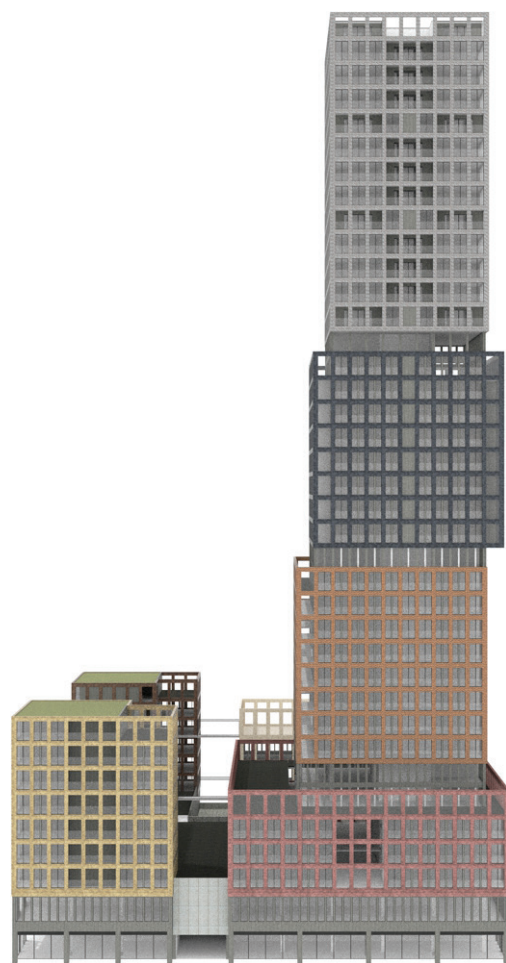




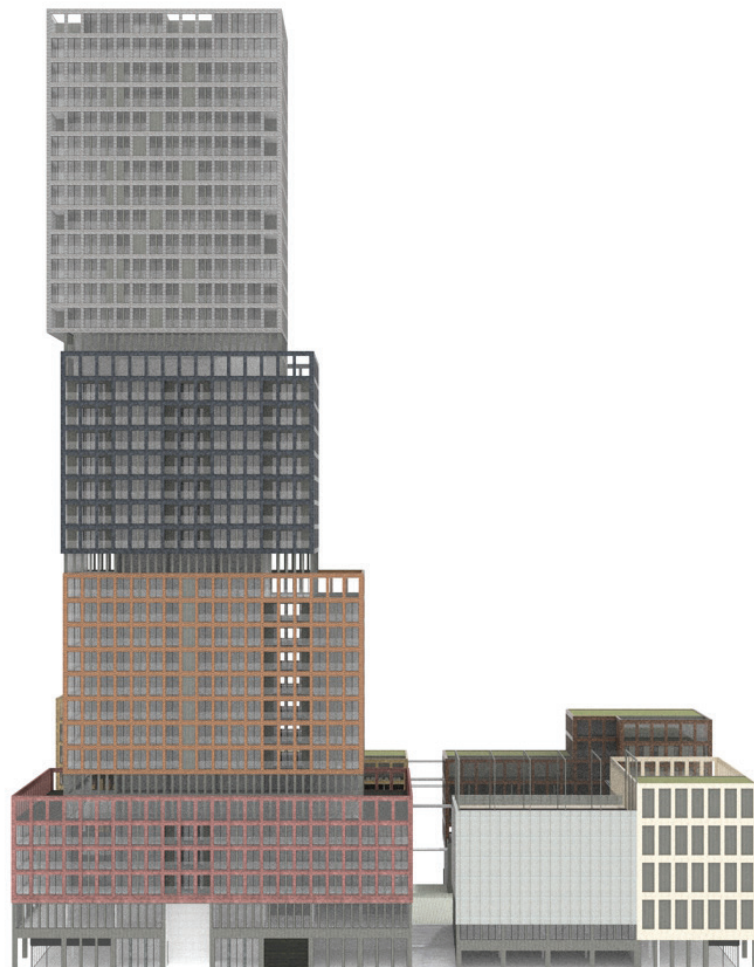
0-9 METRES + CORE **CONCRETE**
9+ METRES **CROSS-LAMINATED TIMBER**

CONSTRUCTION





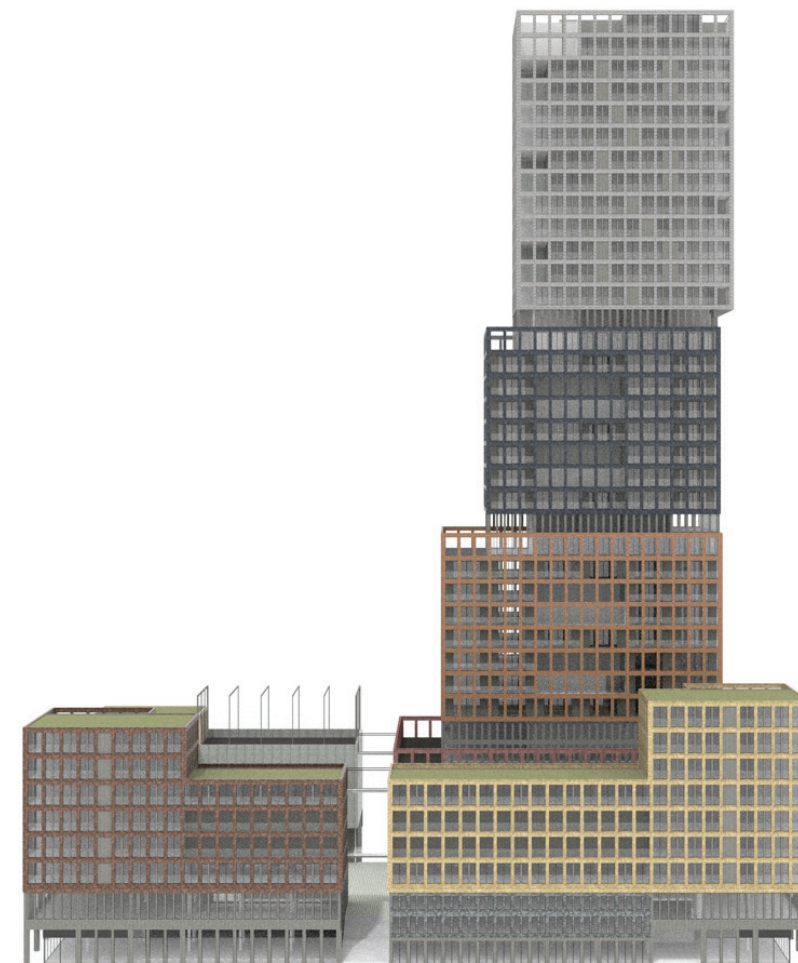
NORTH **EAST**



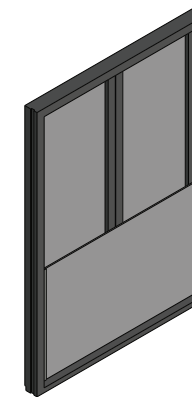
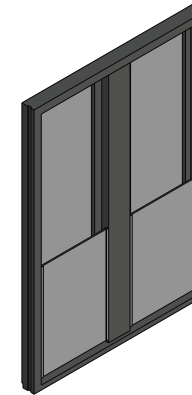
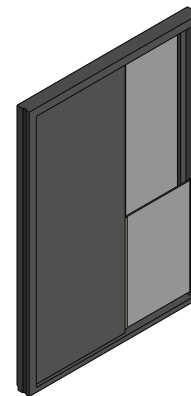
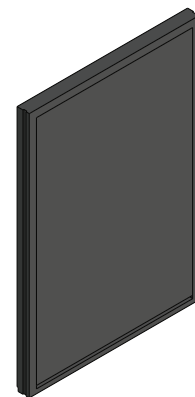
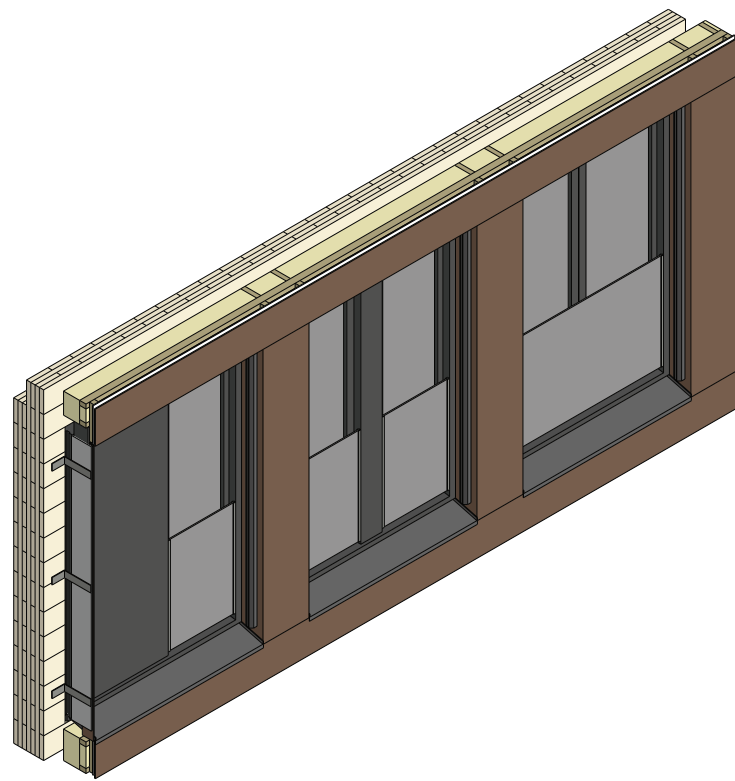
NORTH **WEST**

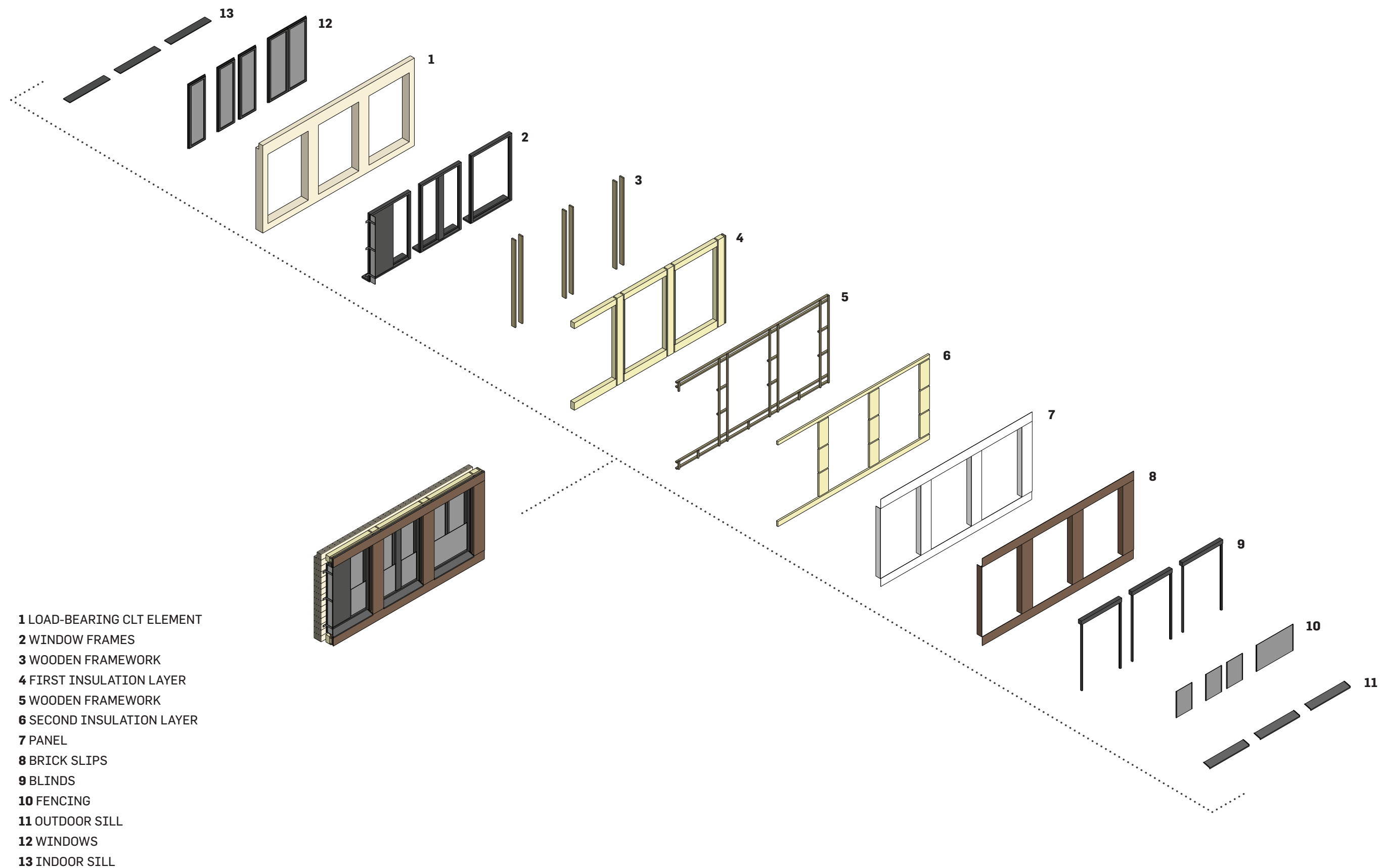


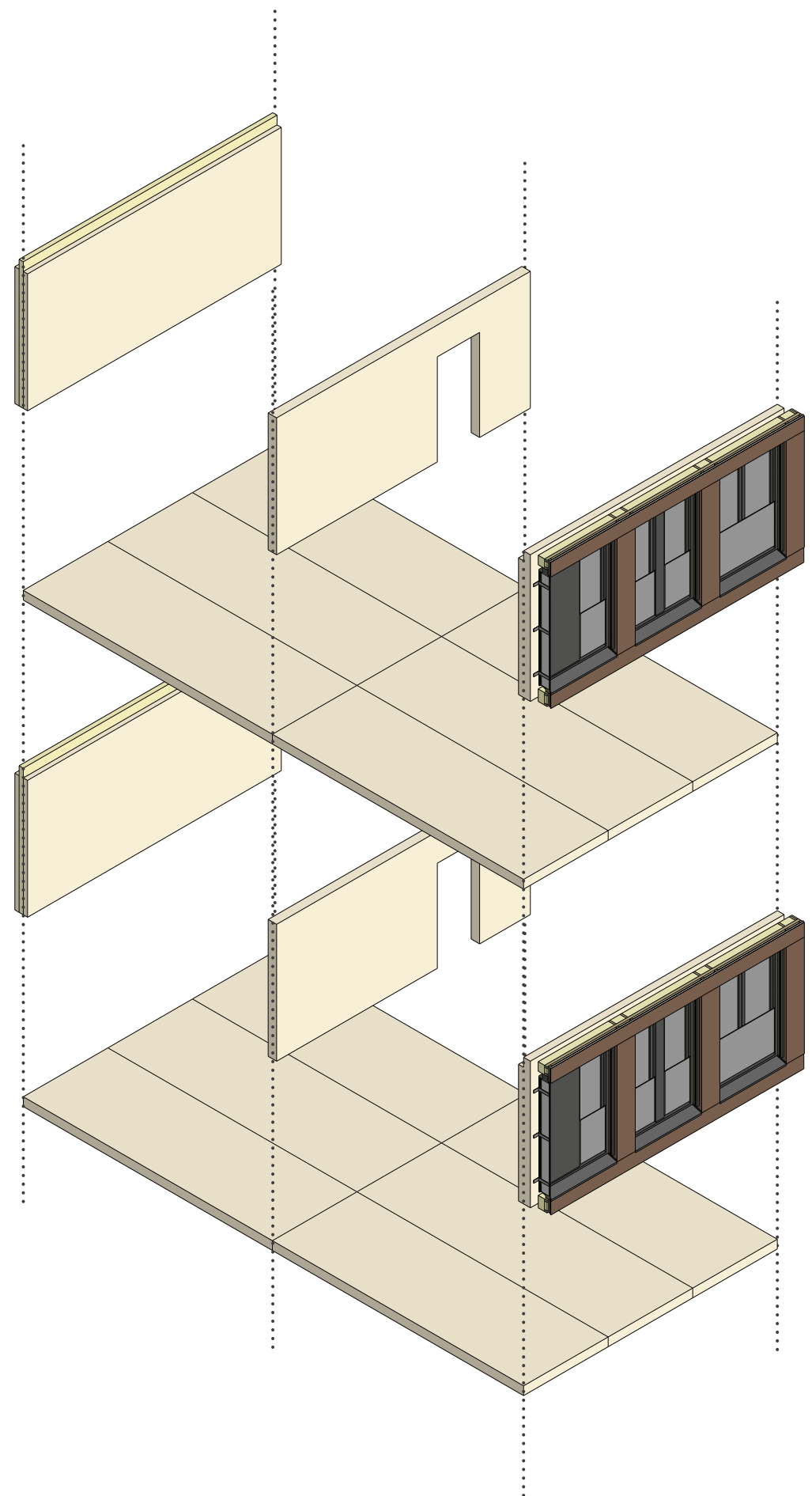
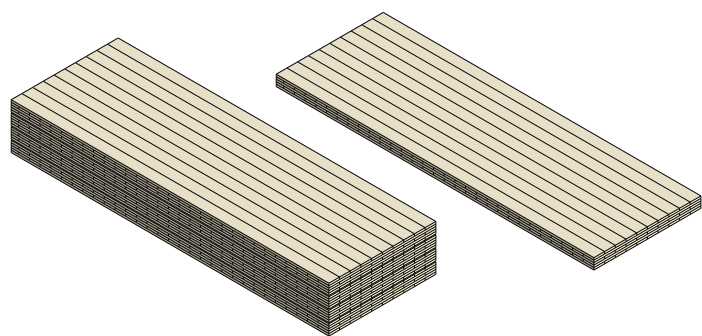
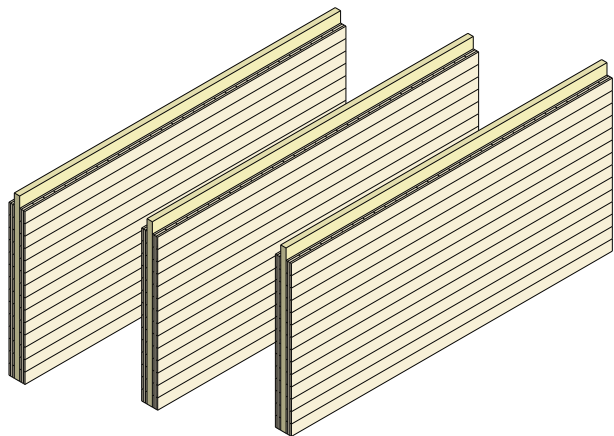
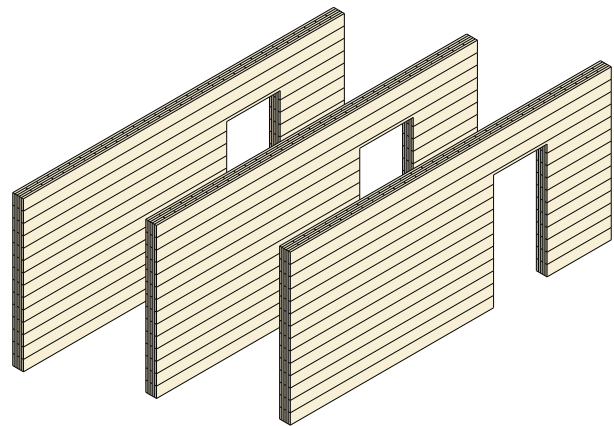
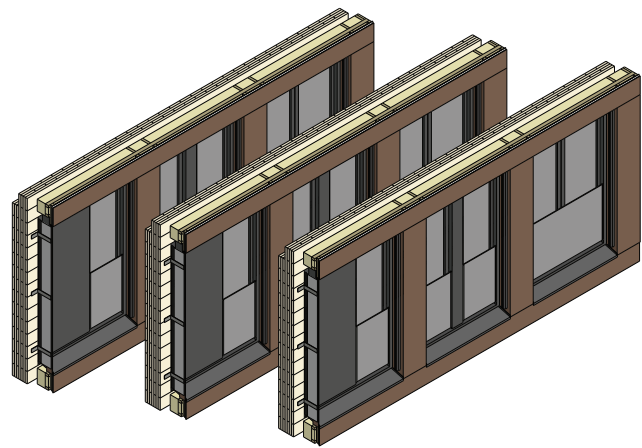
SOUTH **WEST**

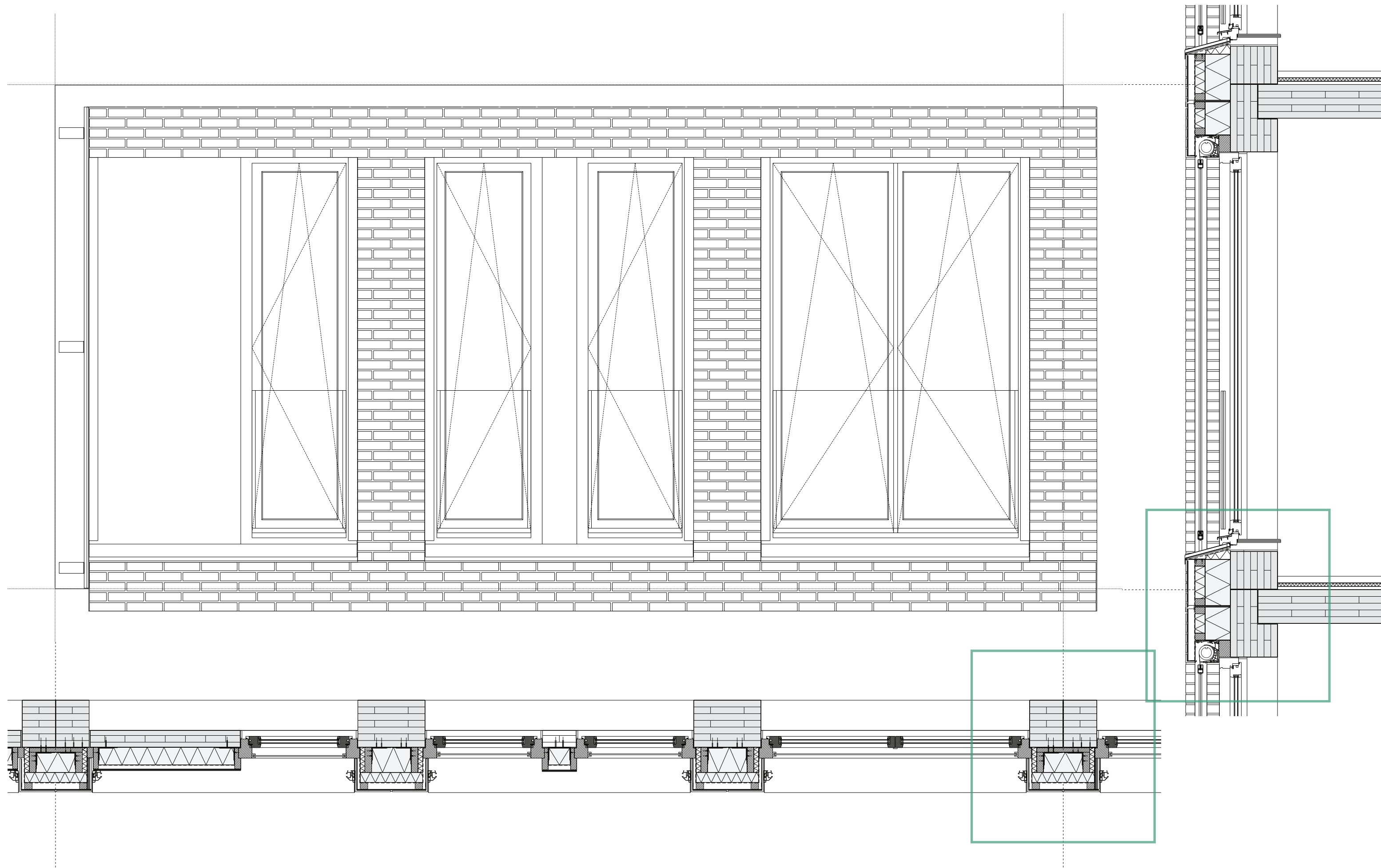


SOUTH **EAST**







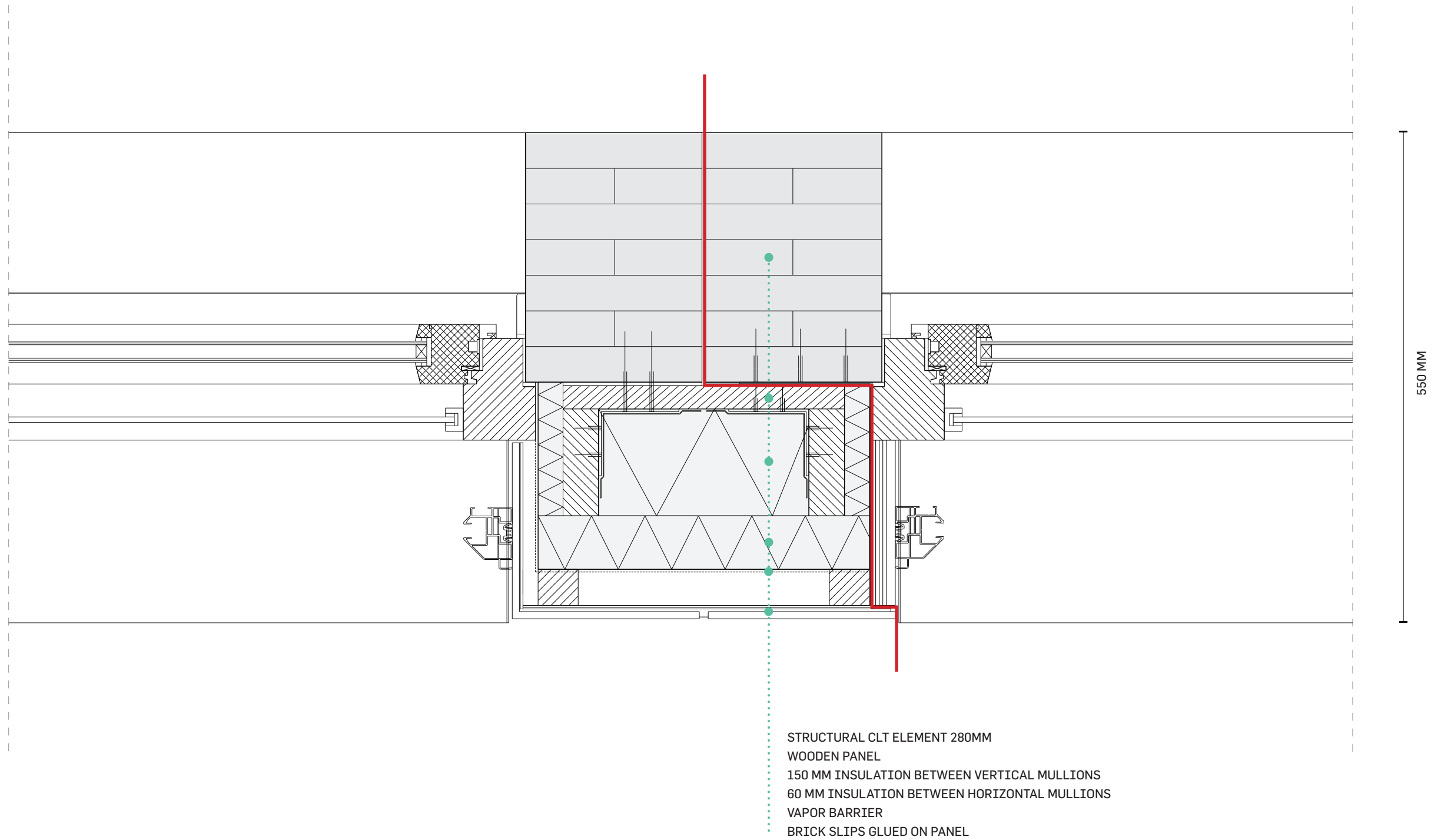


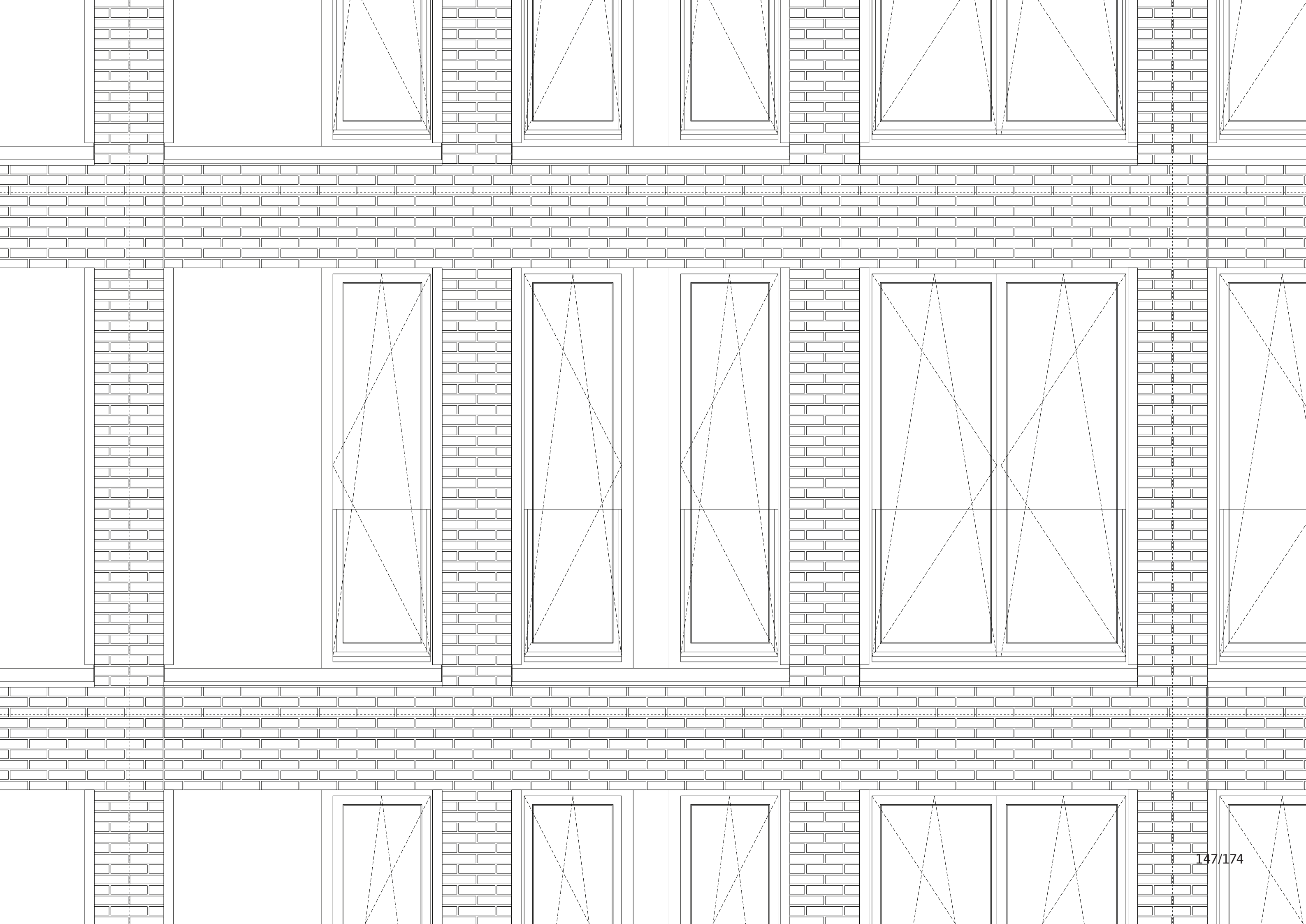
PREFAB ELEMENTS

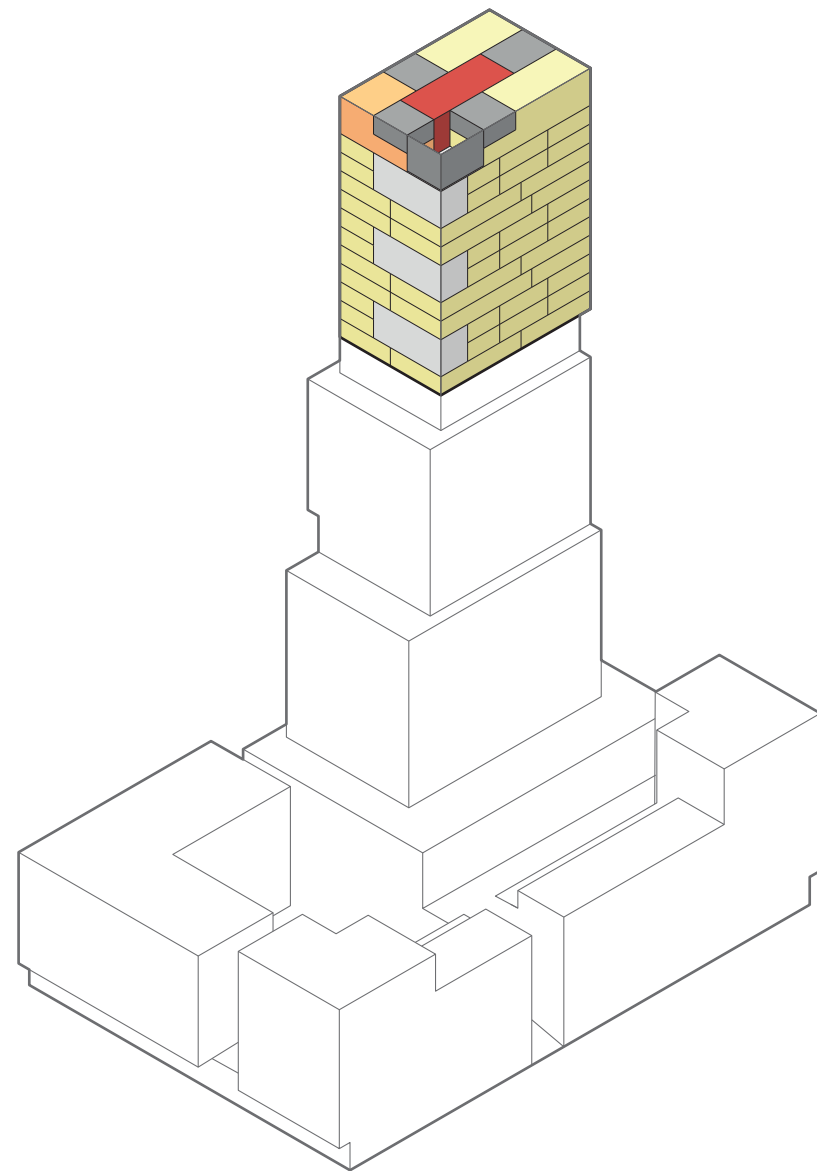
STRUCTURAL CLT ELEMENT 280 MM
150 MM INSULATION BETWEEN VERTICAL MULLIONS
60 MM INSULATION BETWEEN HORIZONTAL MULLIONS
VAPOR BARRIER
VERTICAL SLATS
BRICK SLIPS GLUED ON PANEL

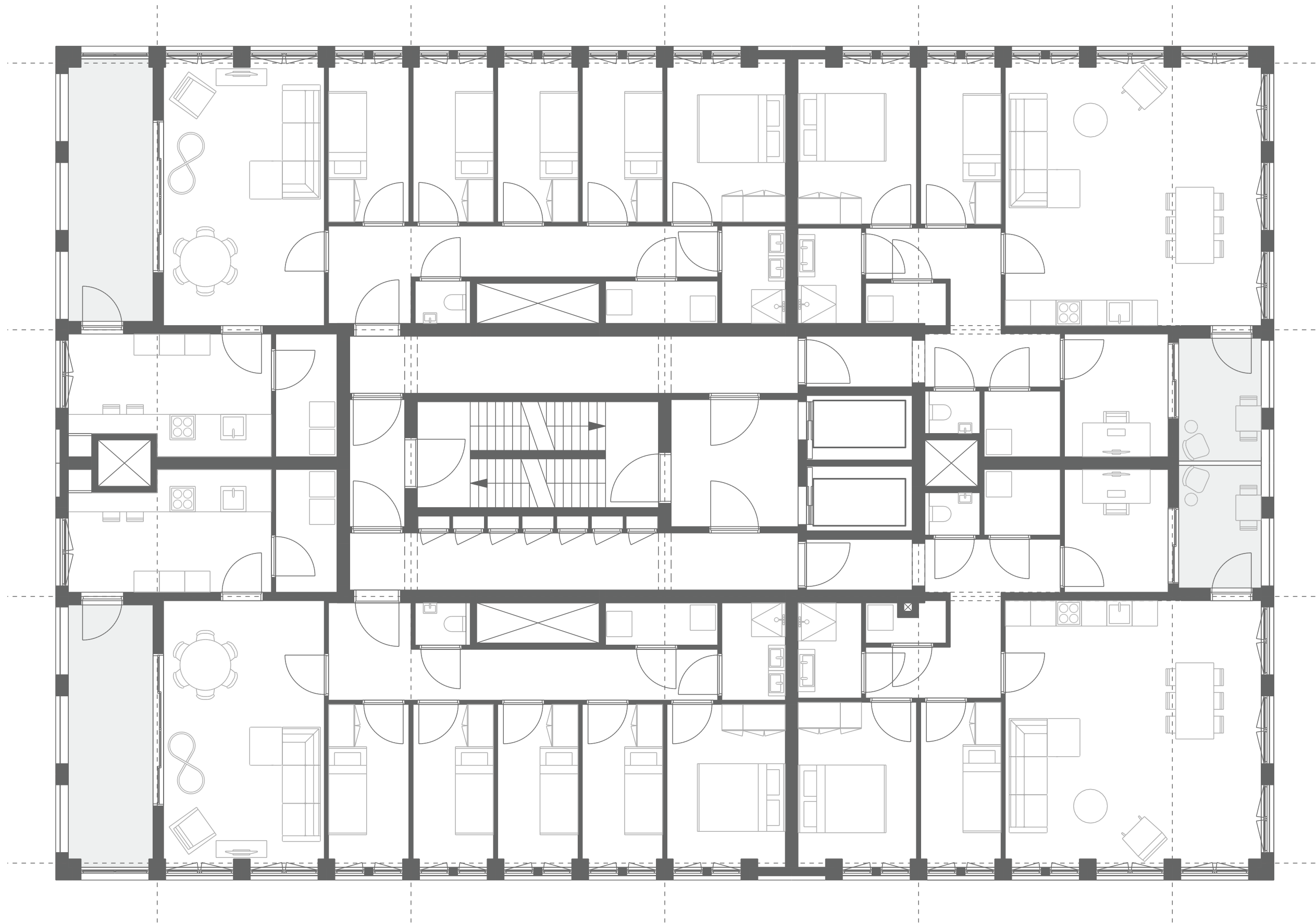
FLOOR FINISHING LAYER
HEATING SCREED
THERMAL INSULATION
ACOUSTIC INSULATION
CLT FLOOR SLAB 200 MM

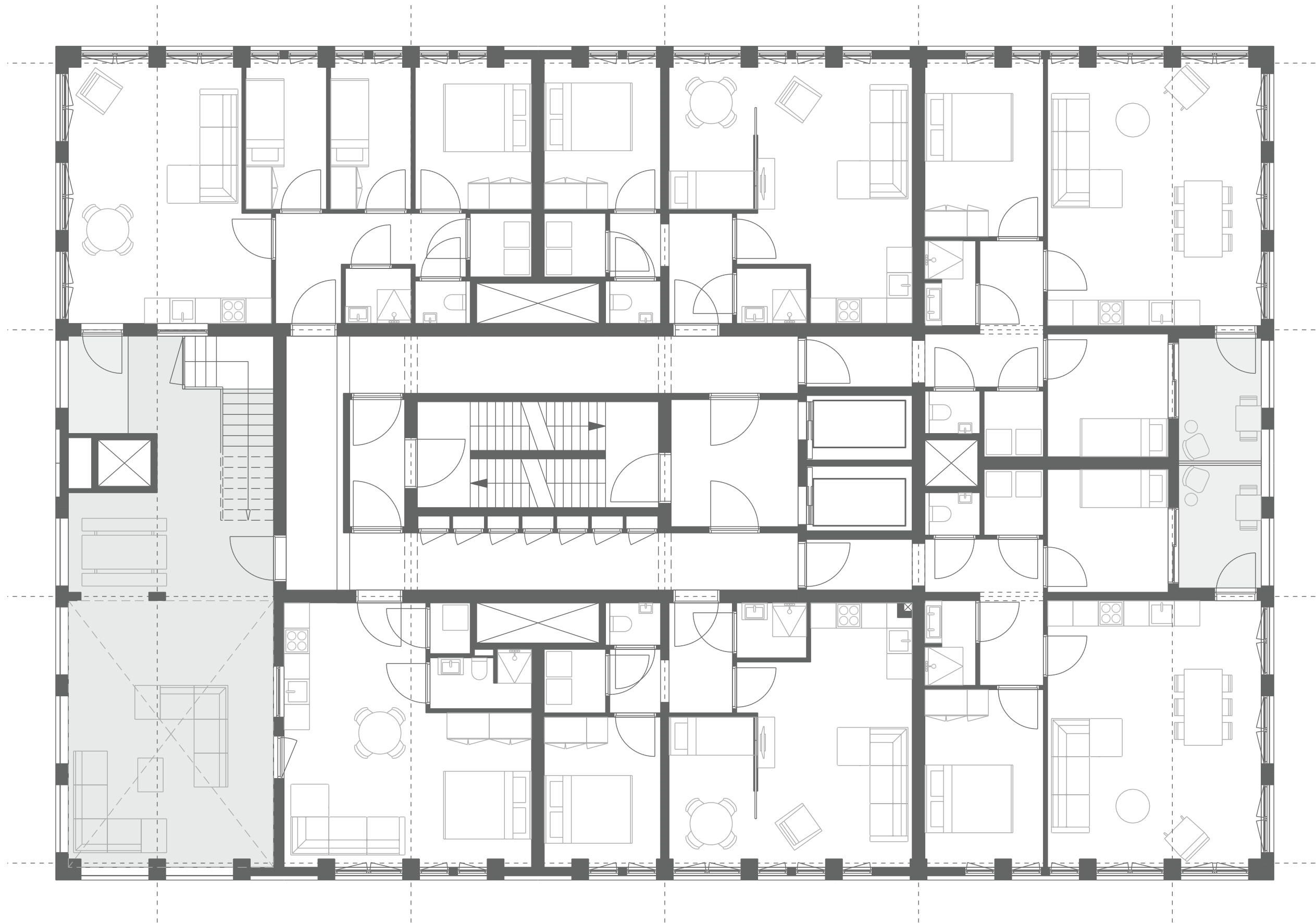
280 MM

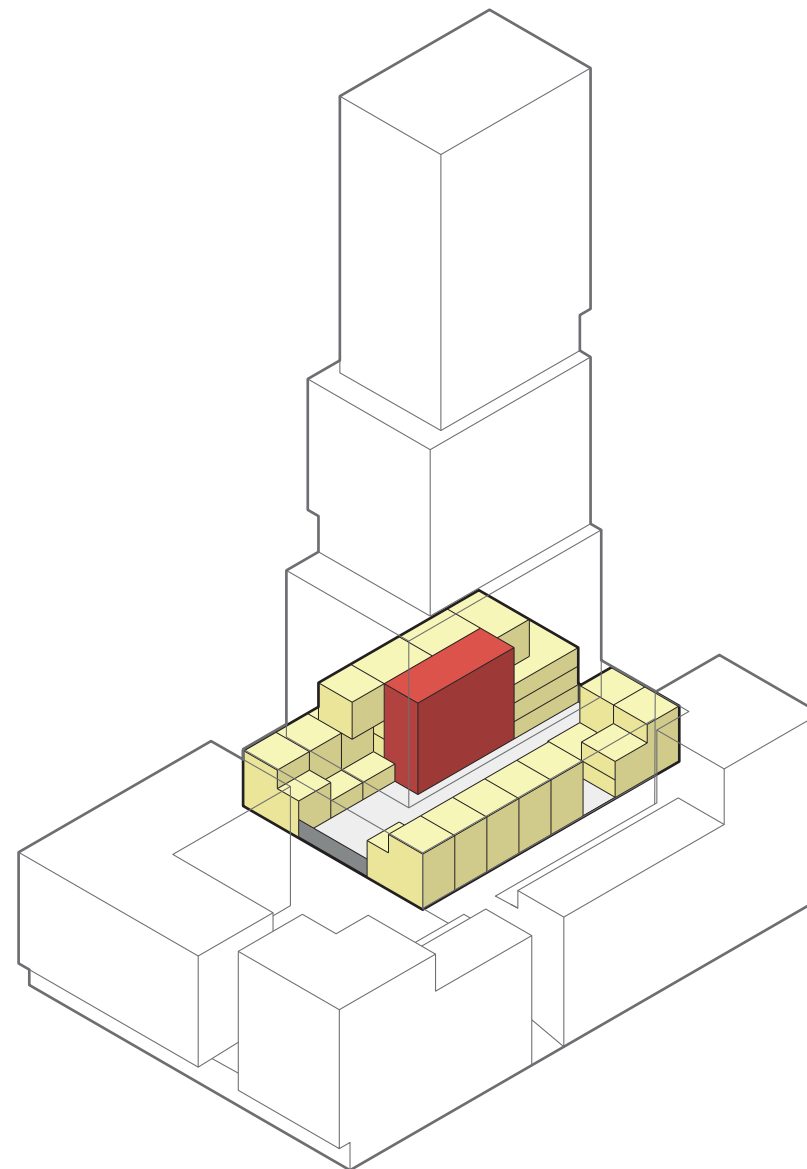




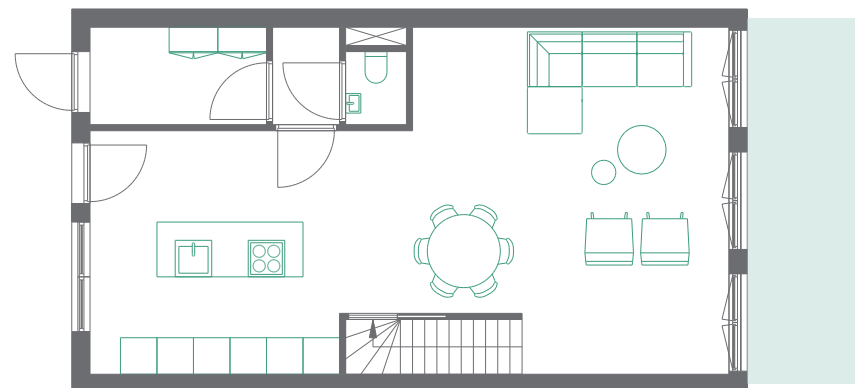
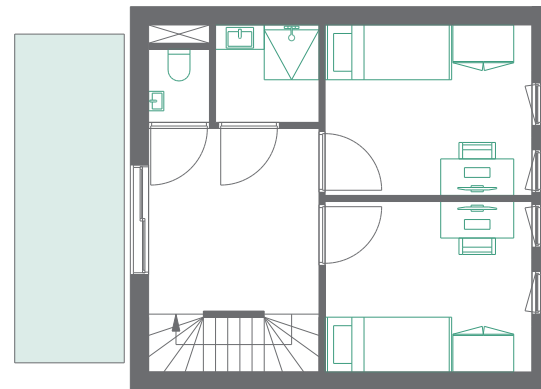
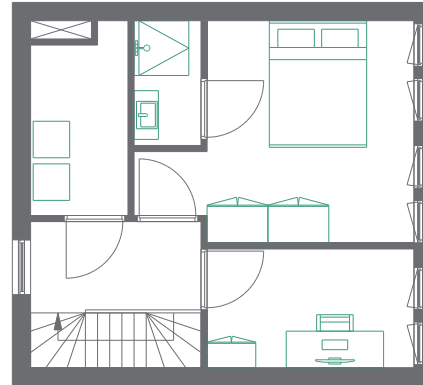


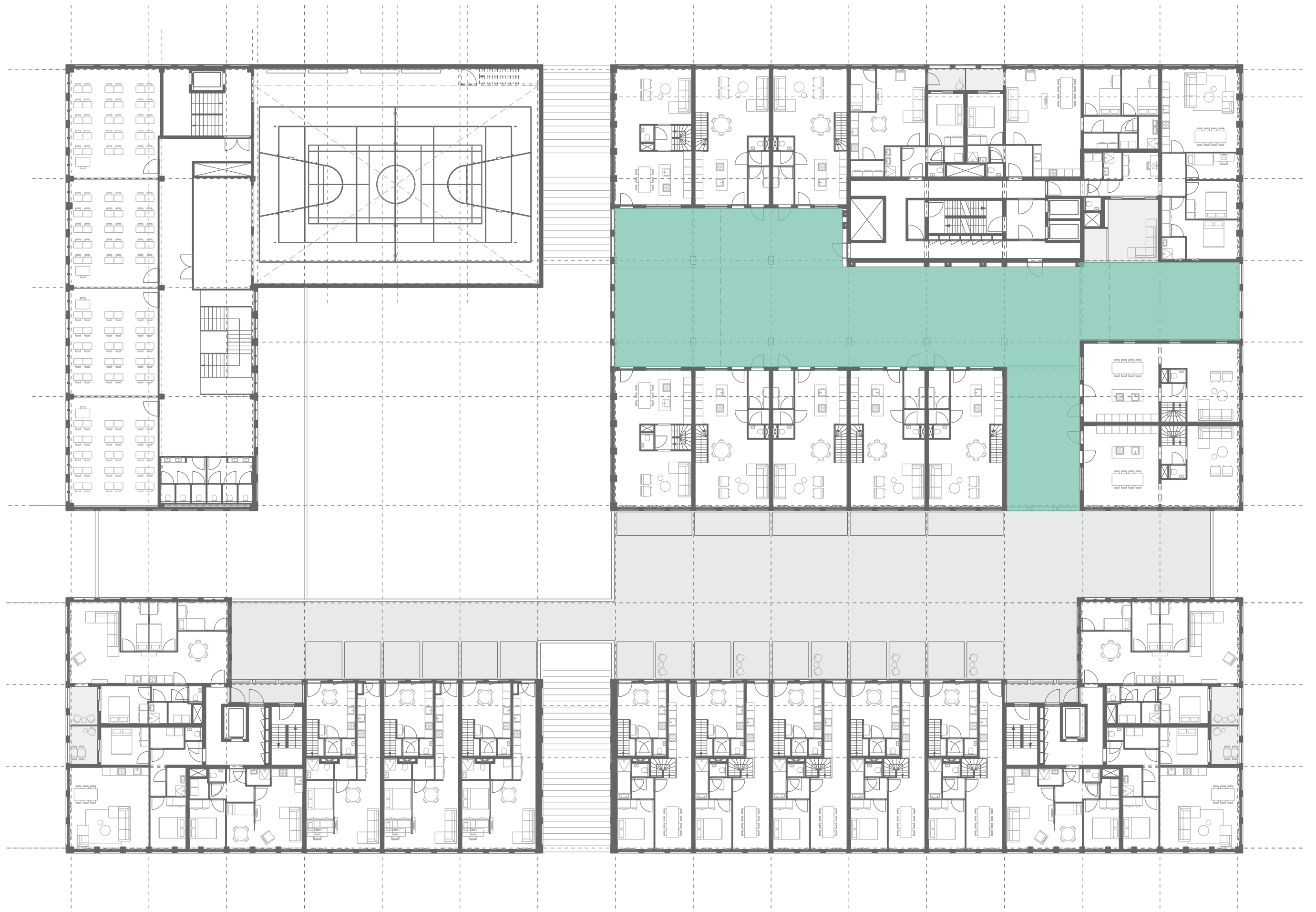


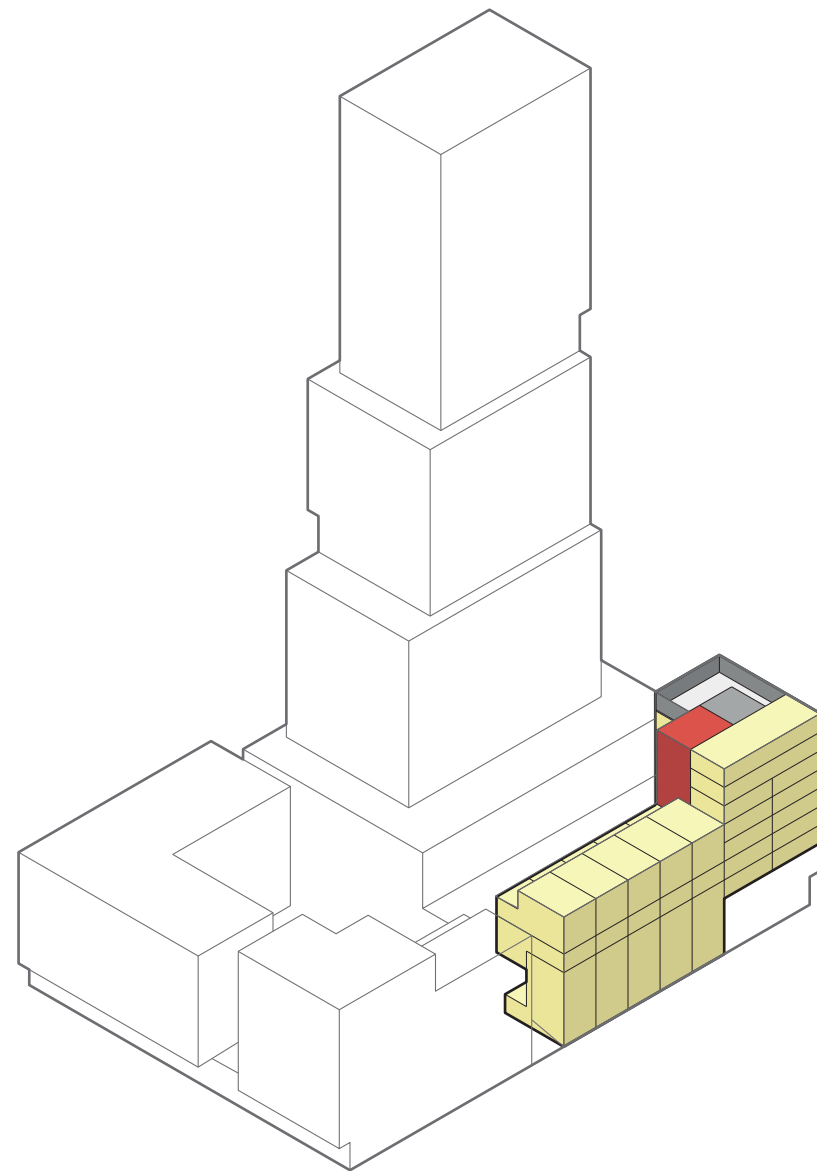


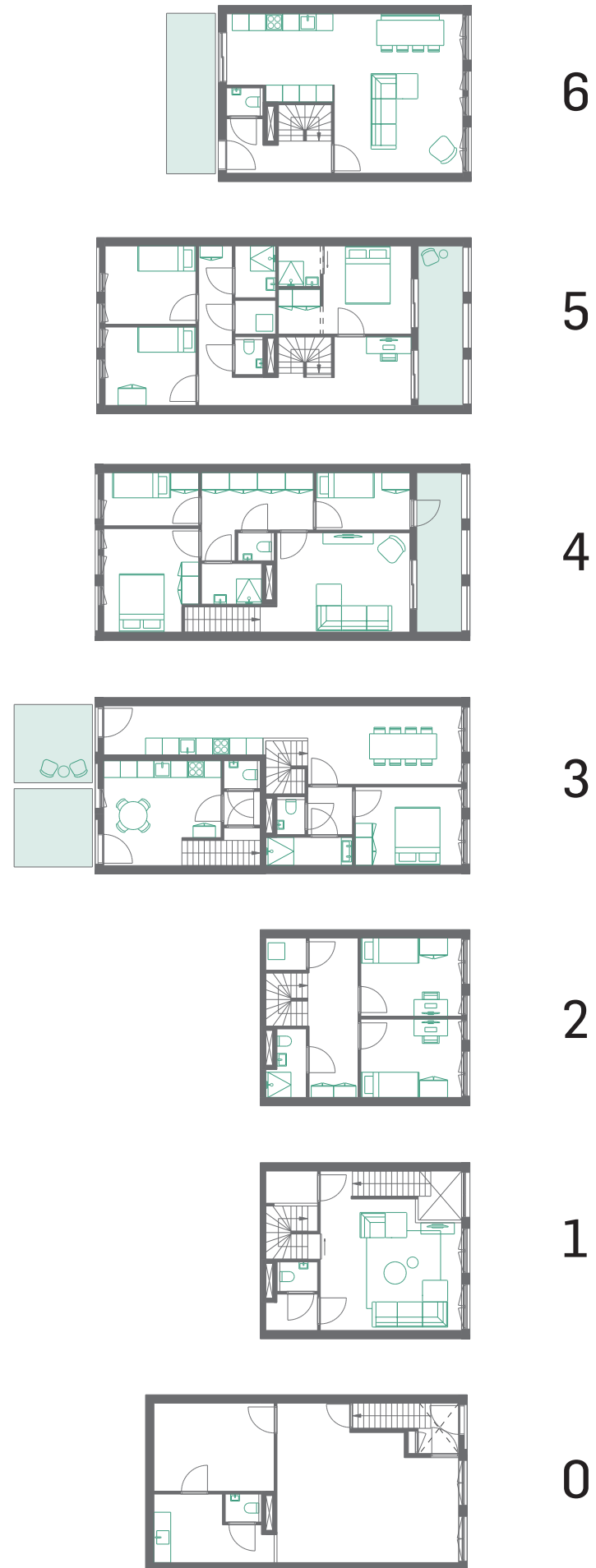


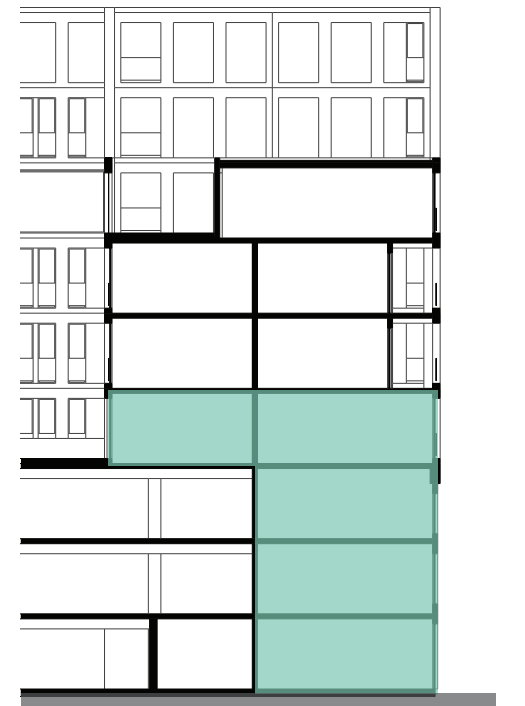
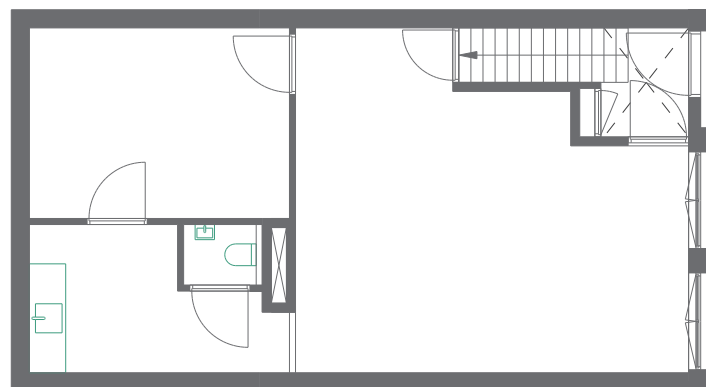
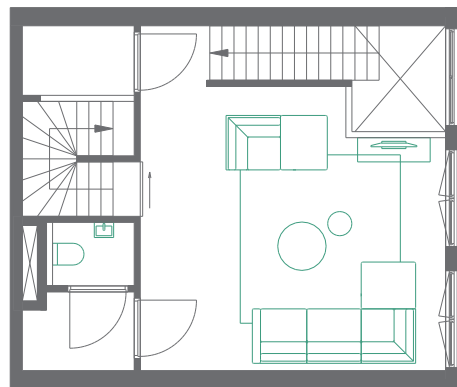
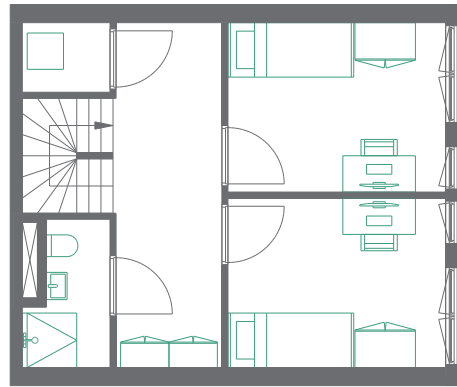
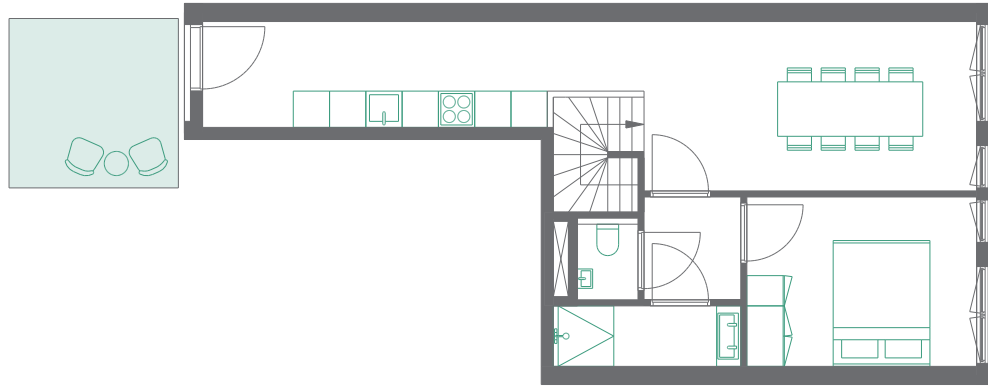


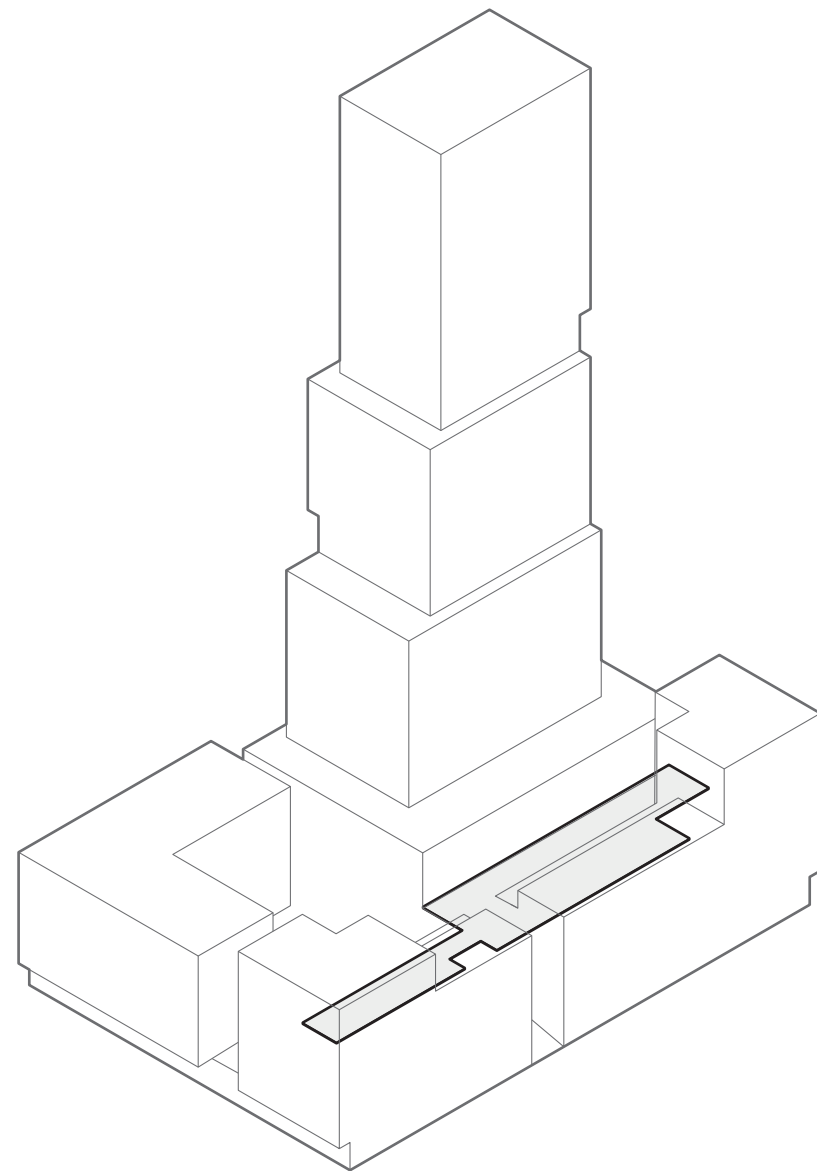


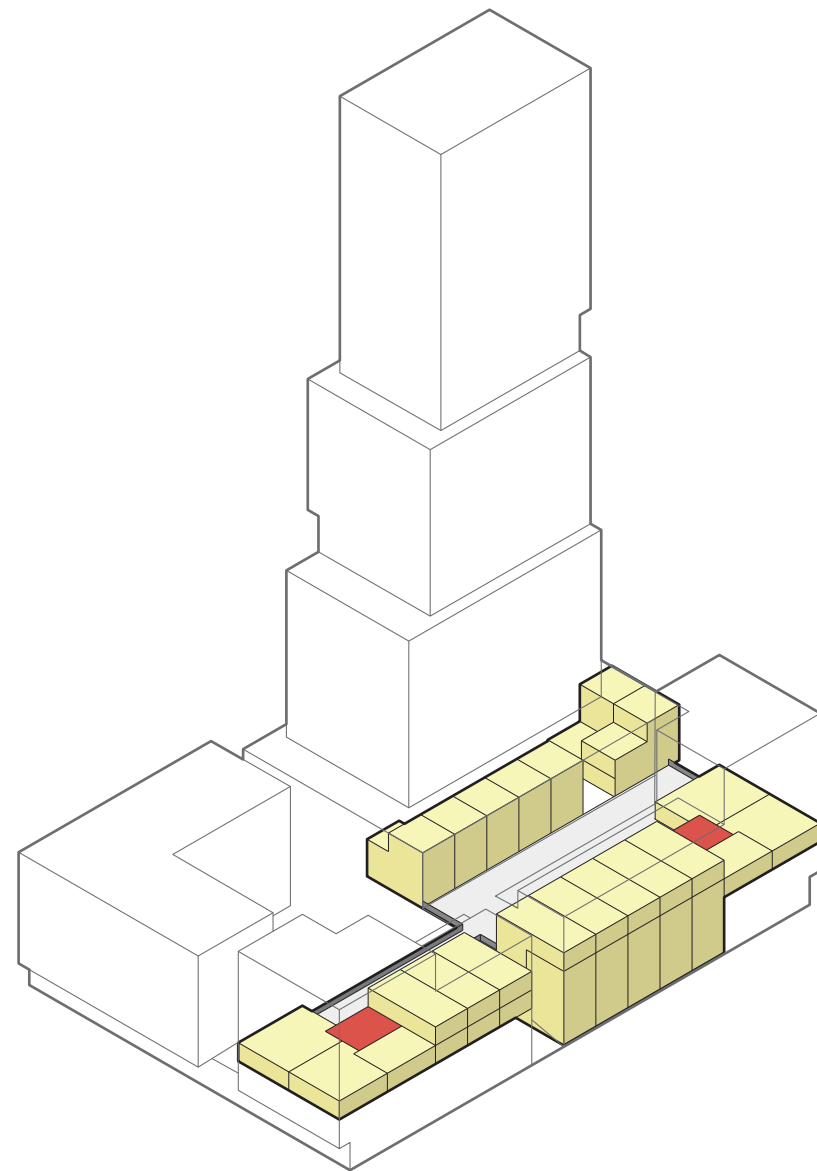


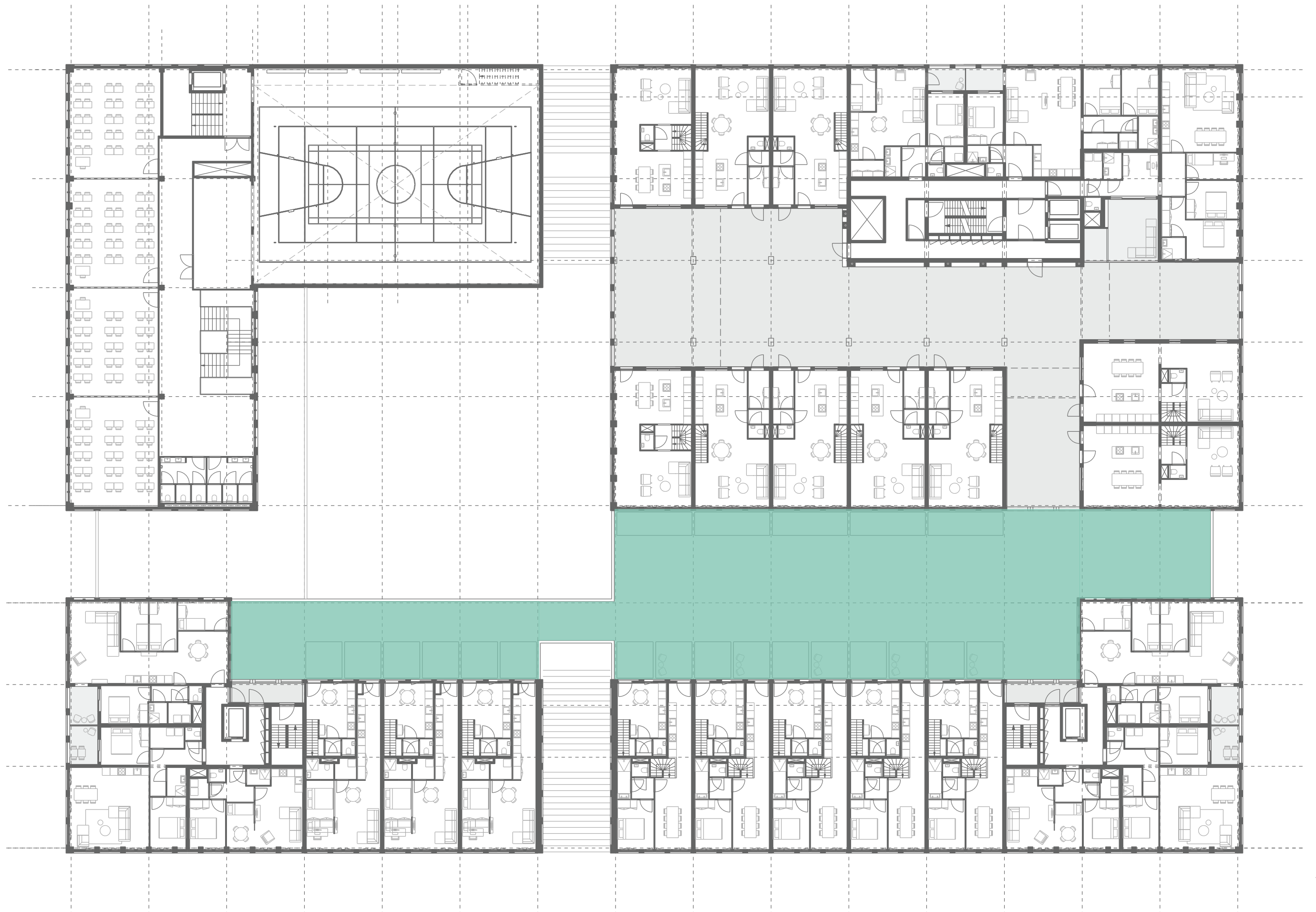








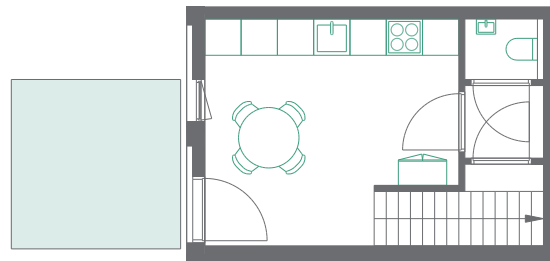
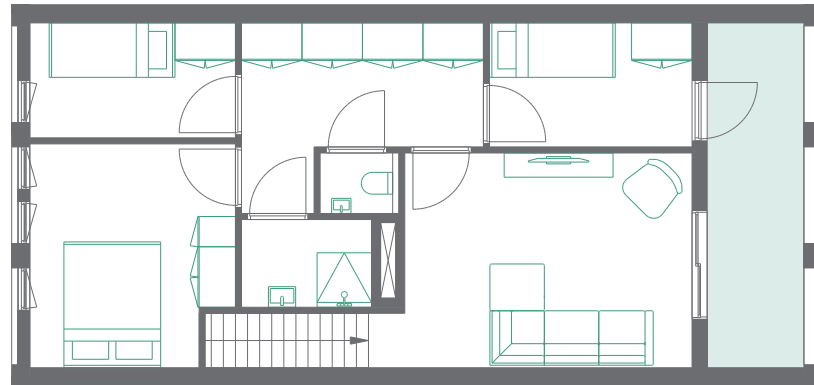


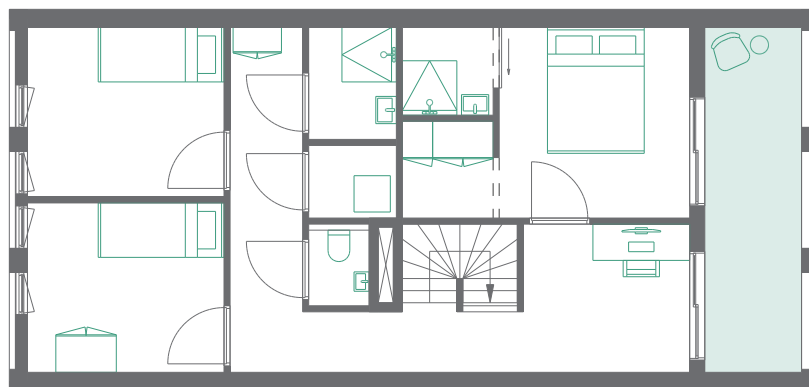
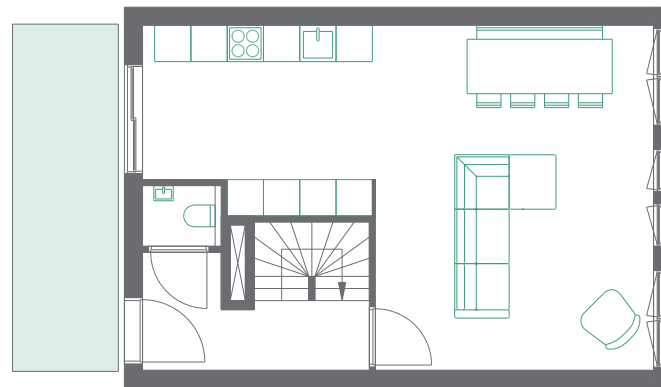


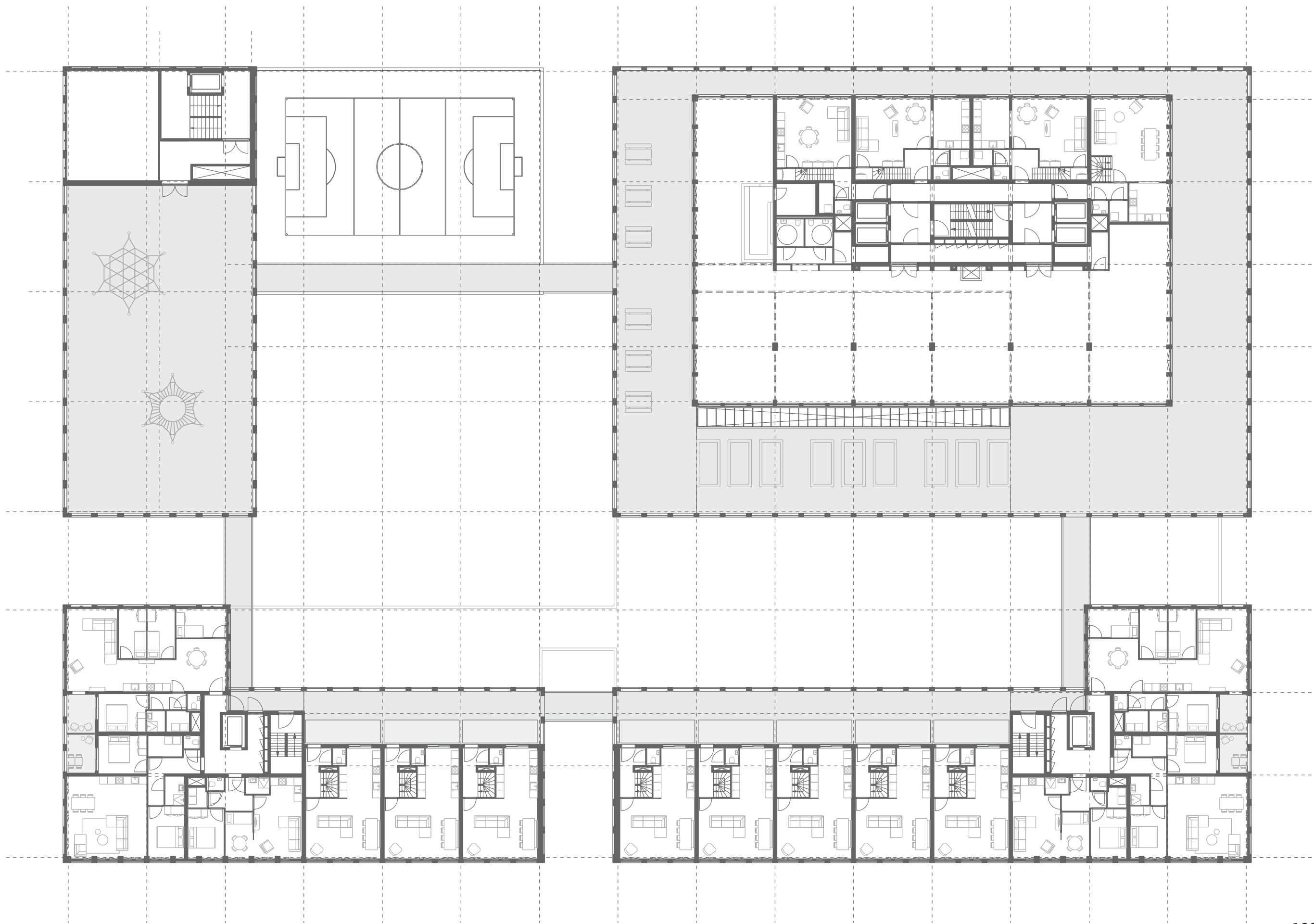














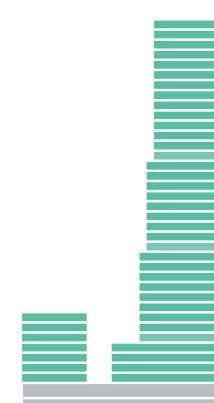
DWELLING



STREET

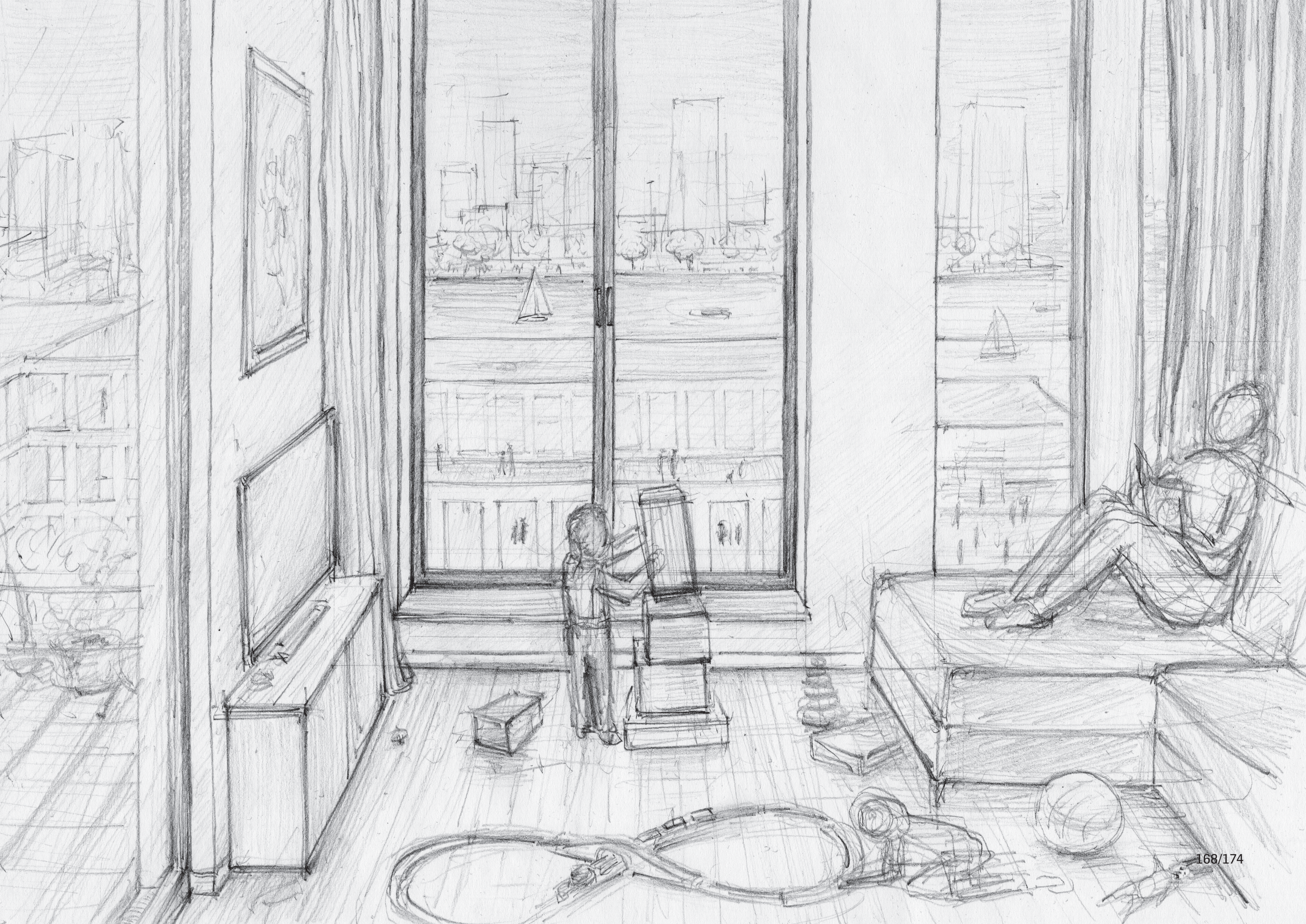


BLOCK

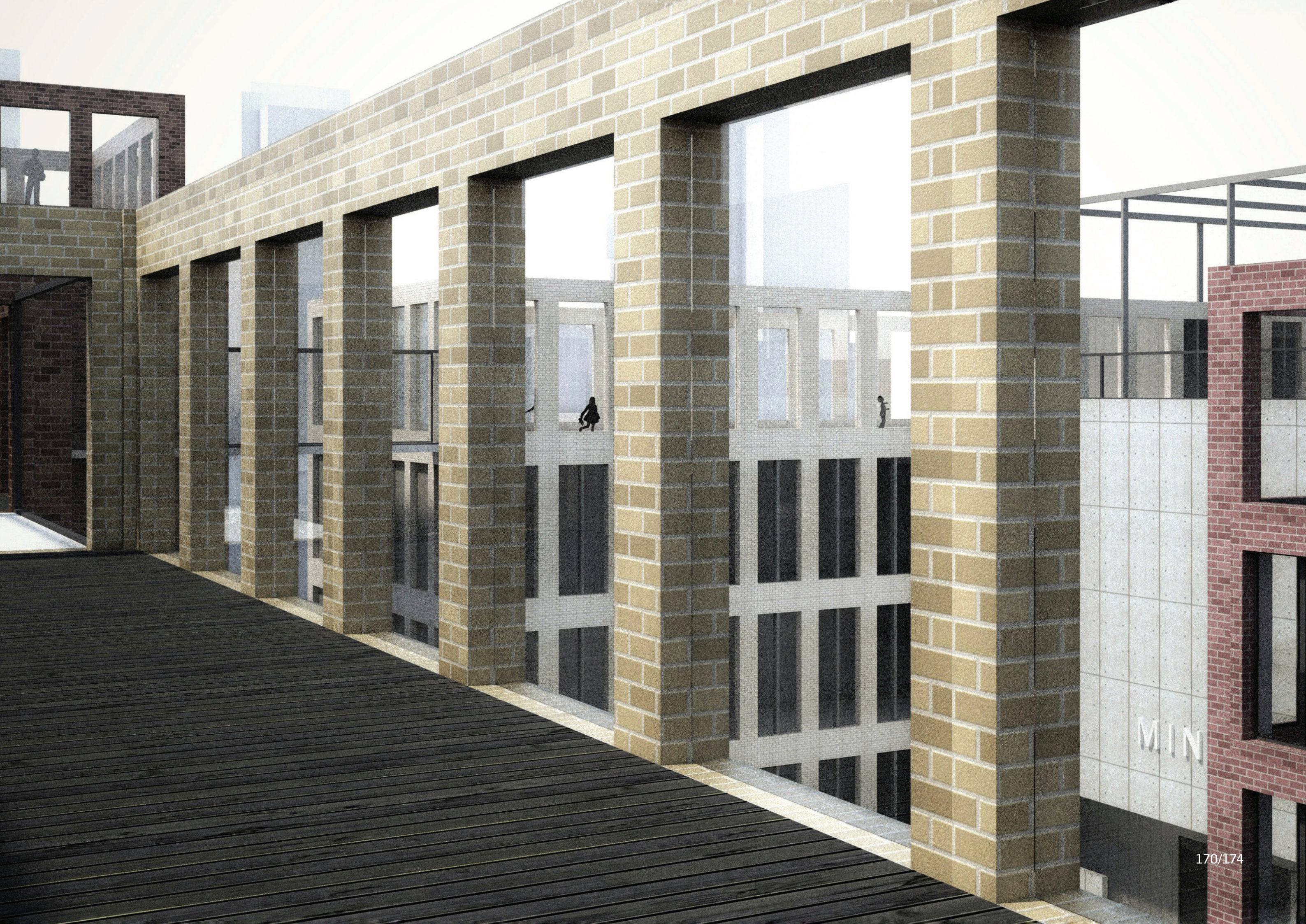


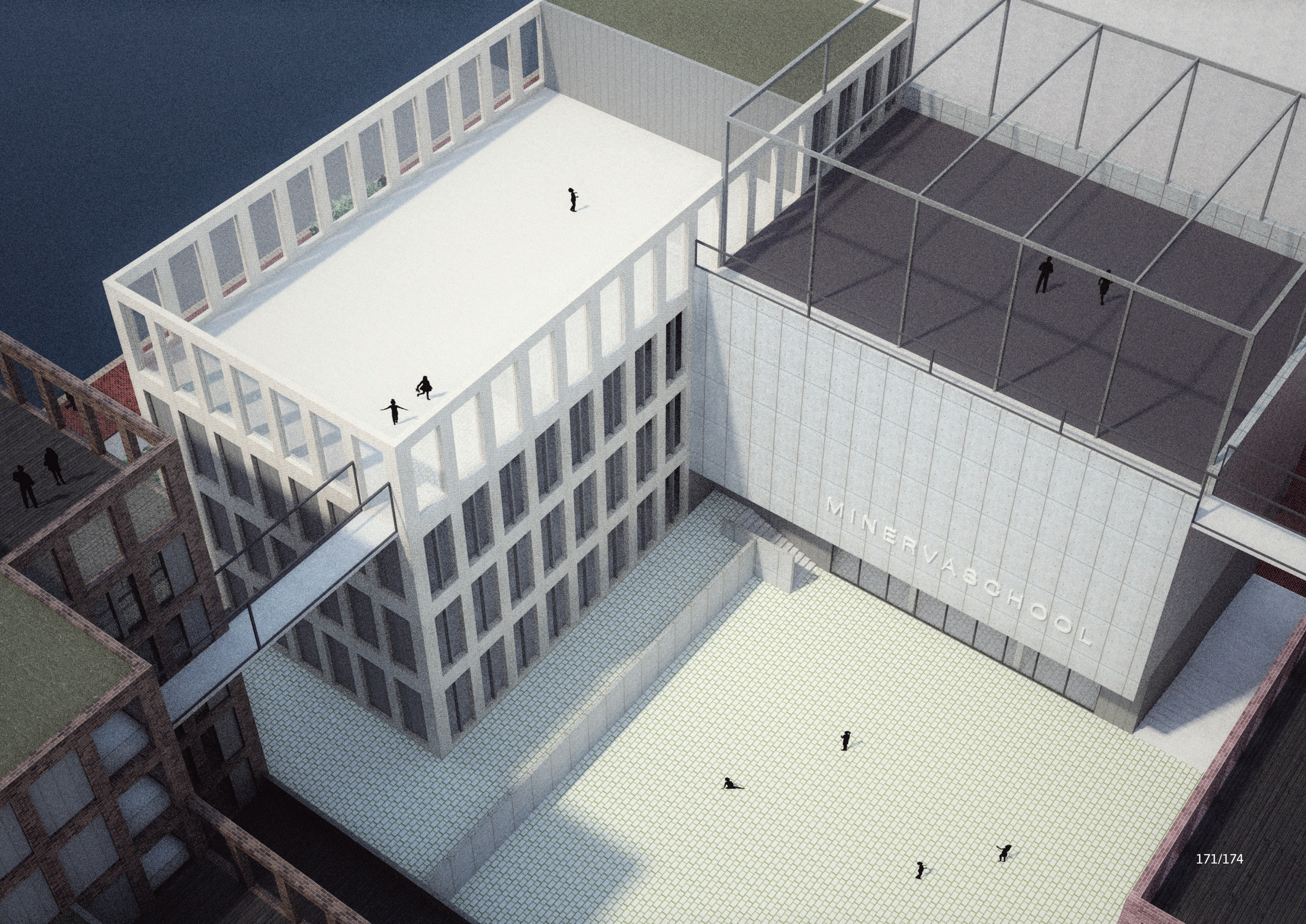
NEIGHBOURHOOD









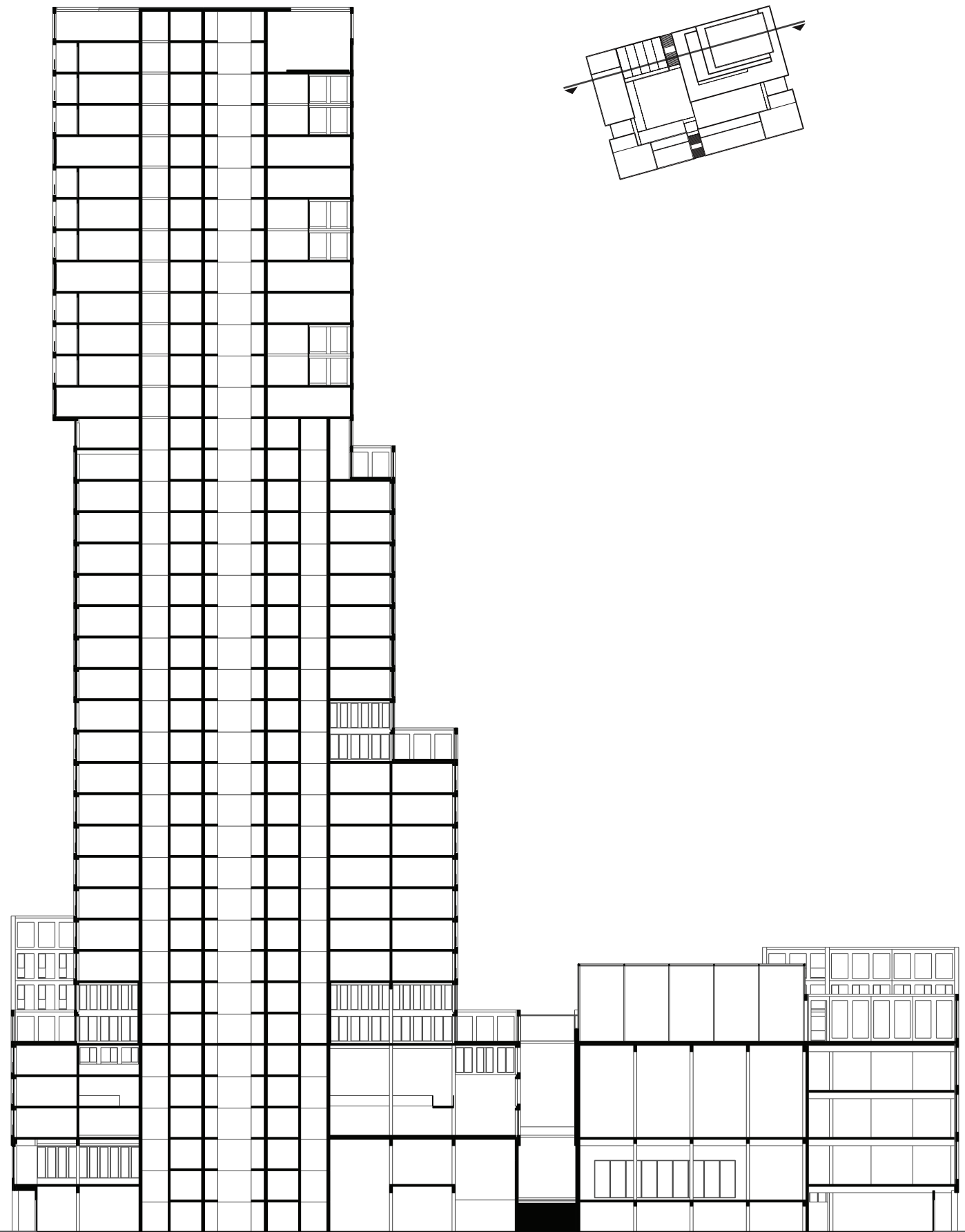
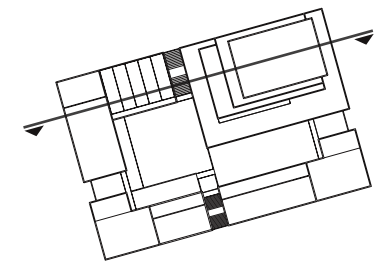
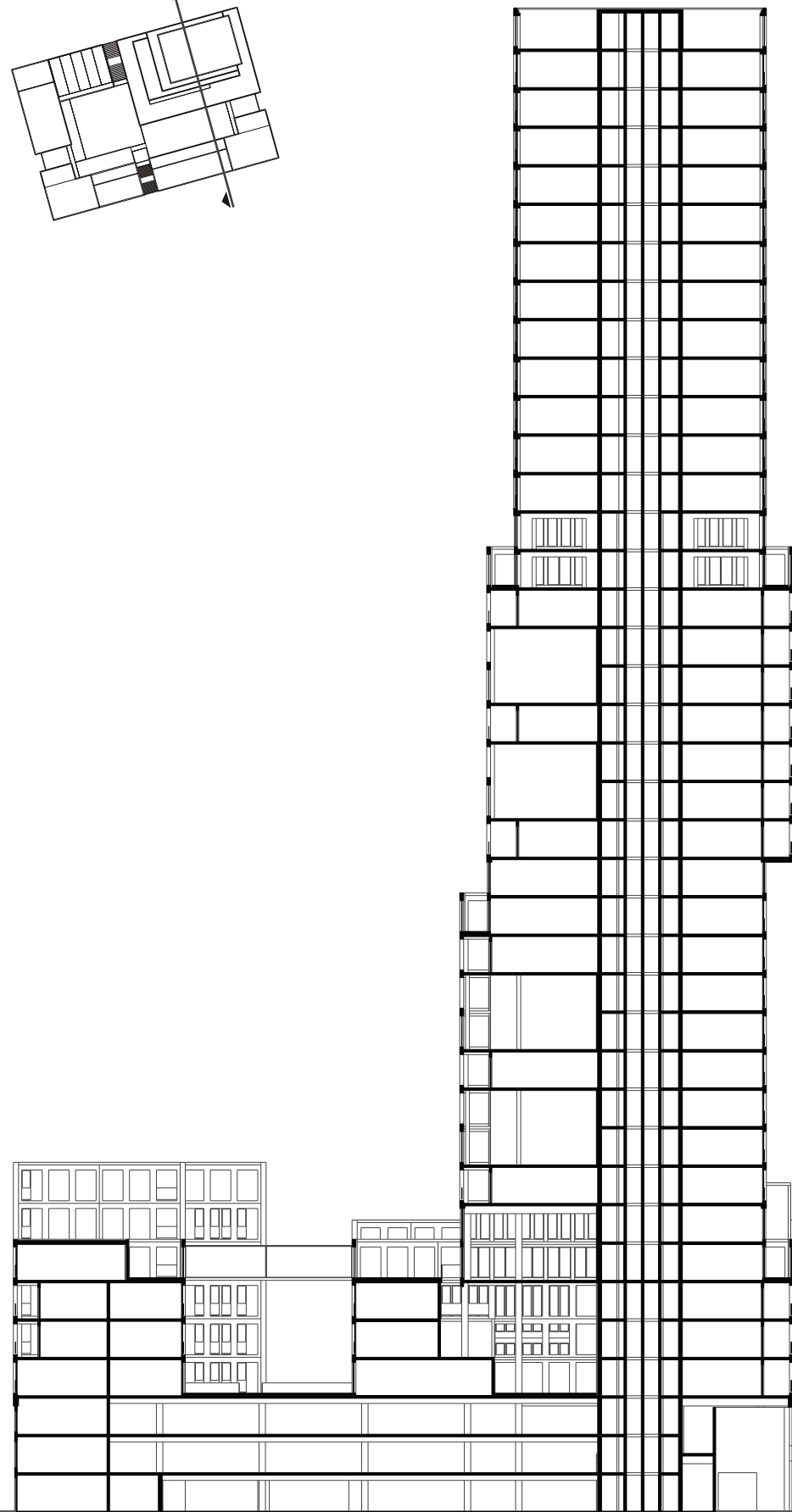
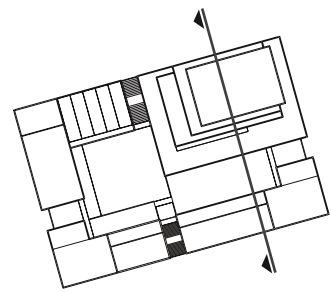


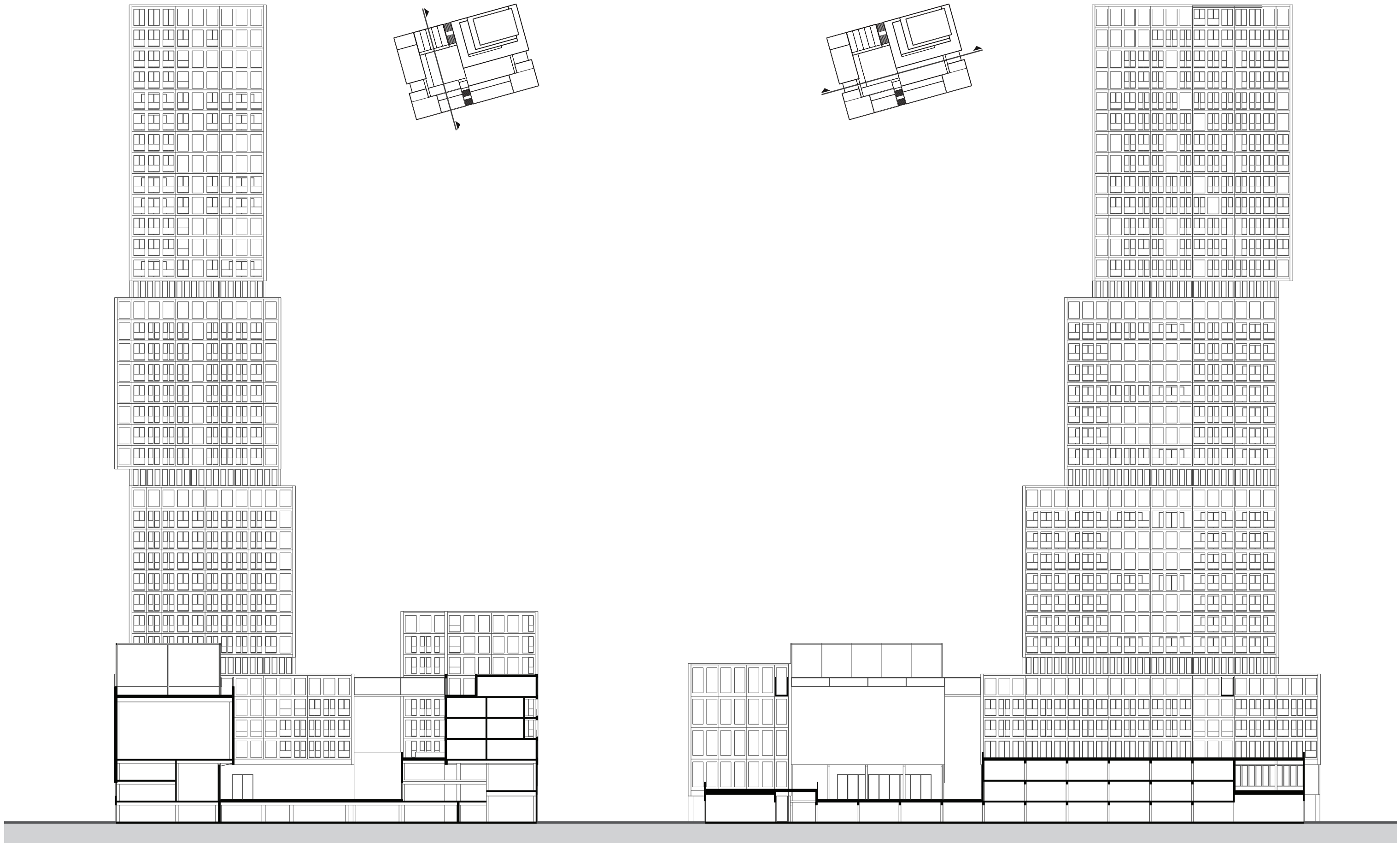
MINERVA SCHOOL

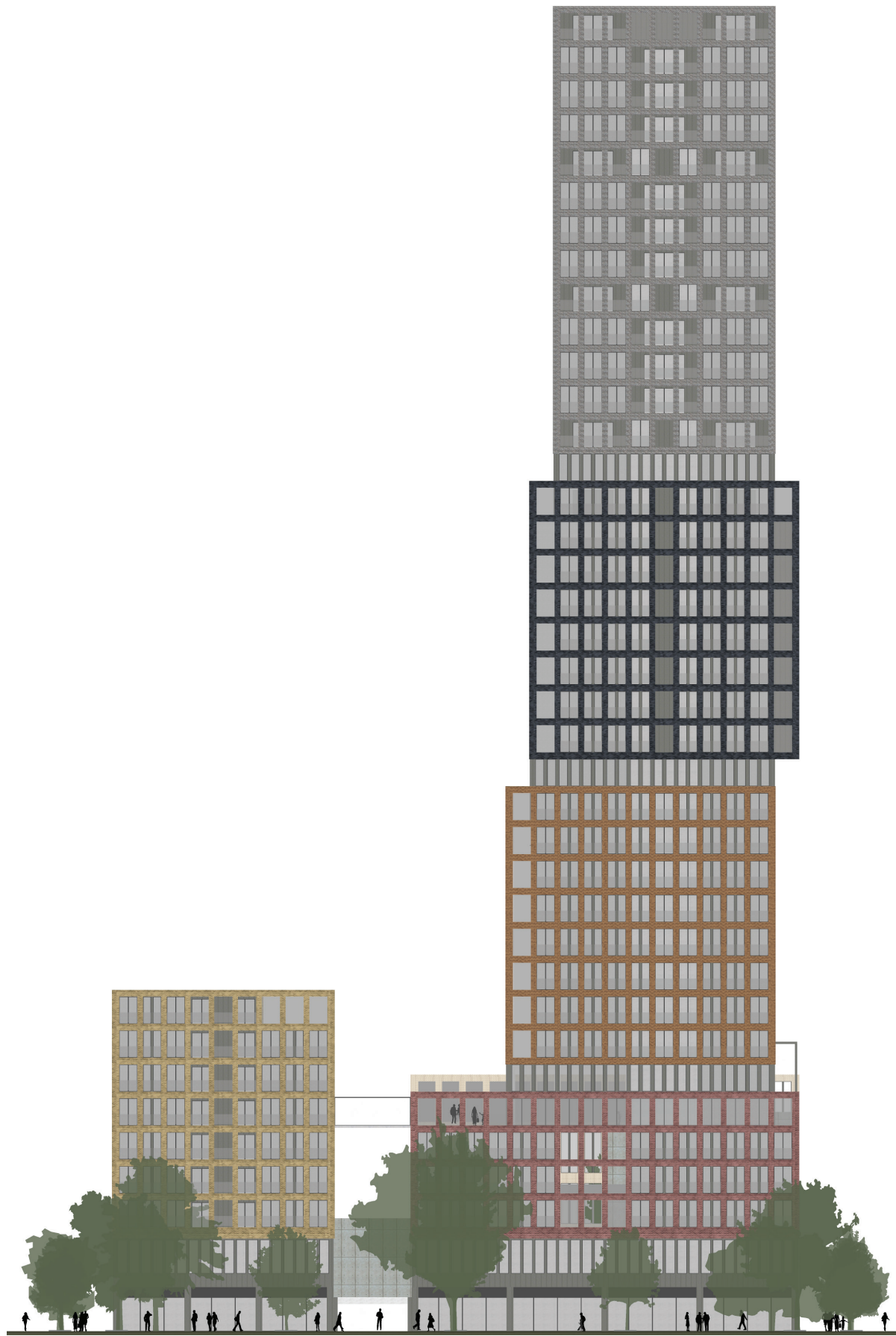




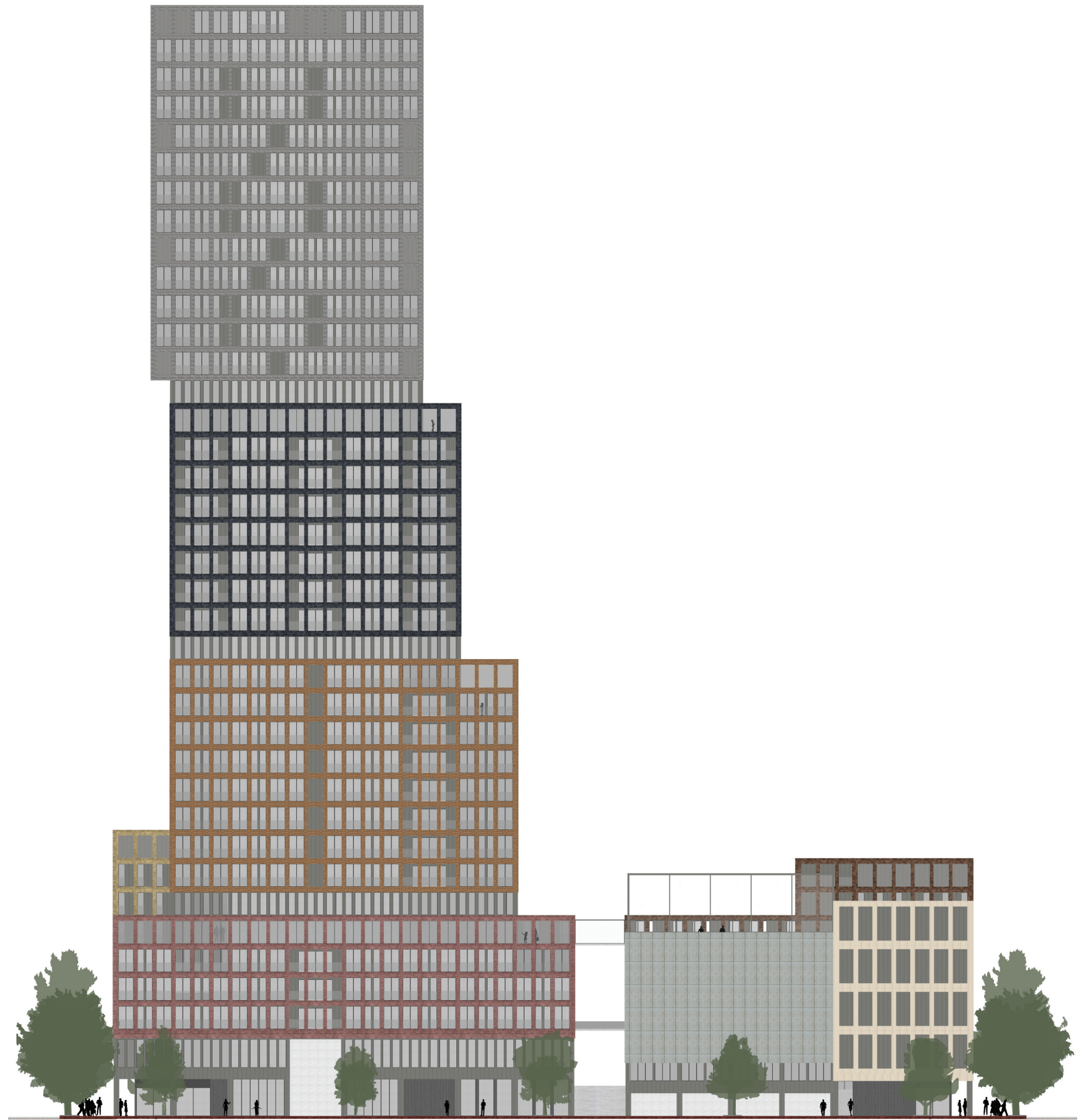




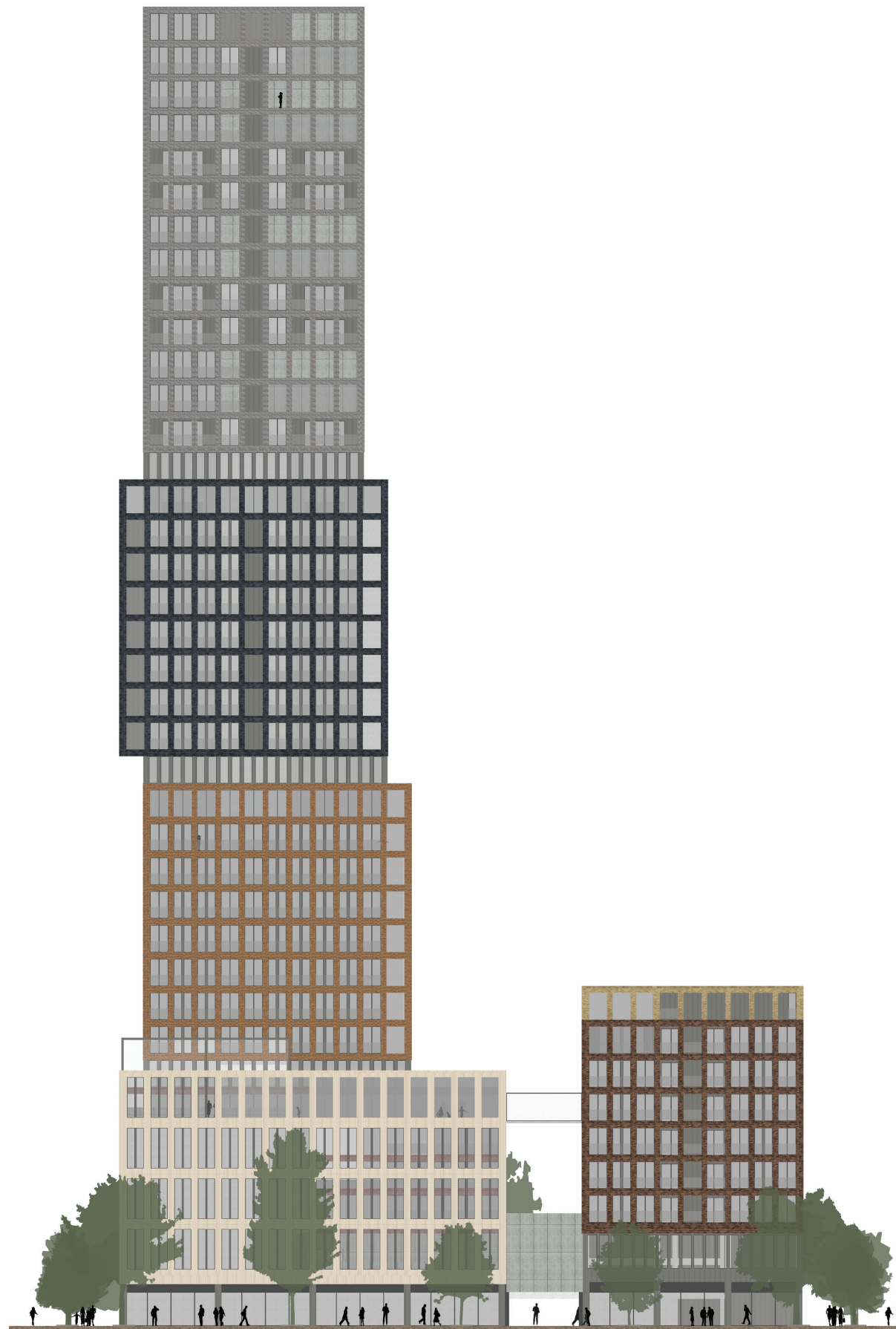




NORTH EAST



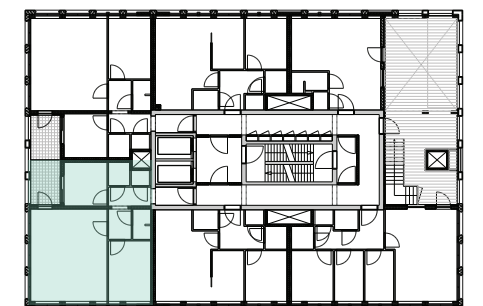
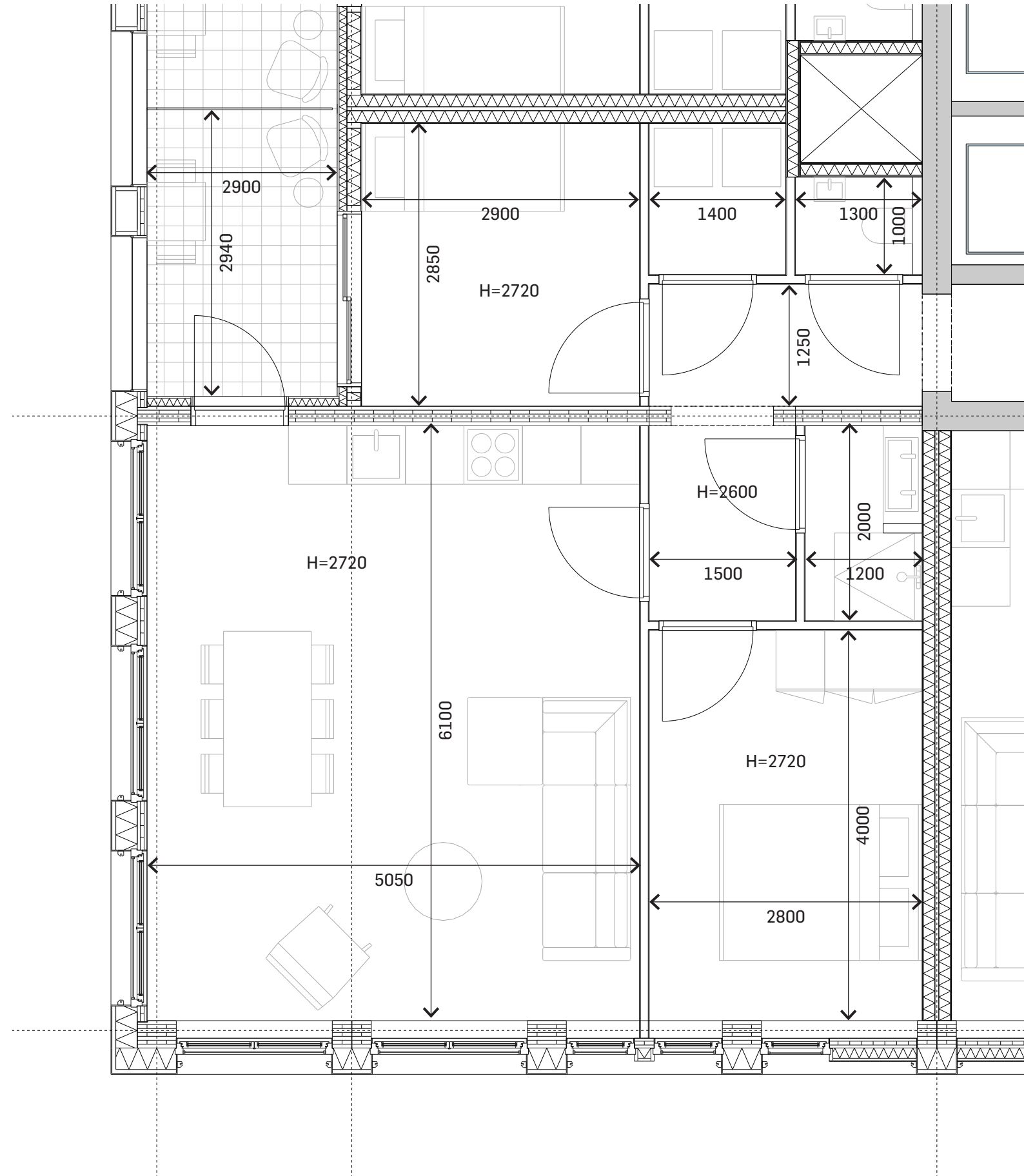
NORTH WEST

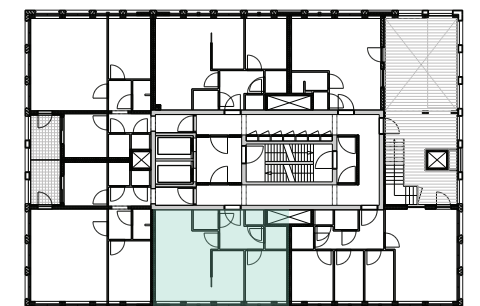
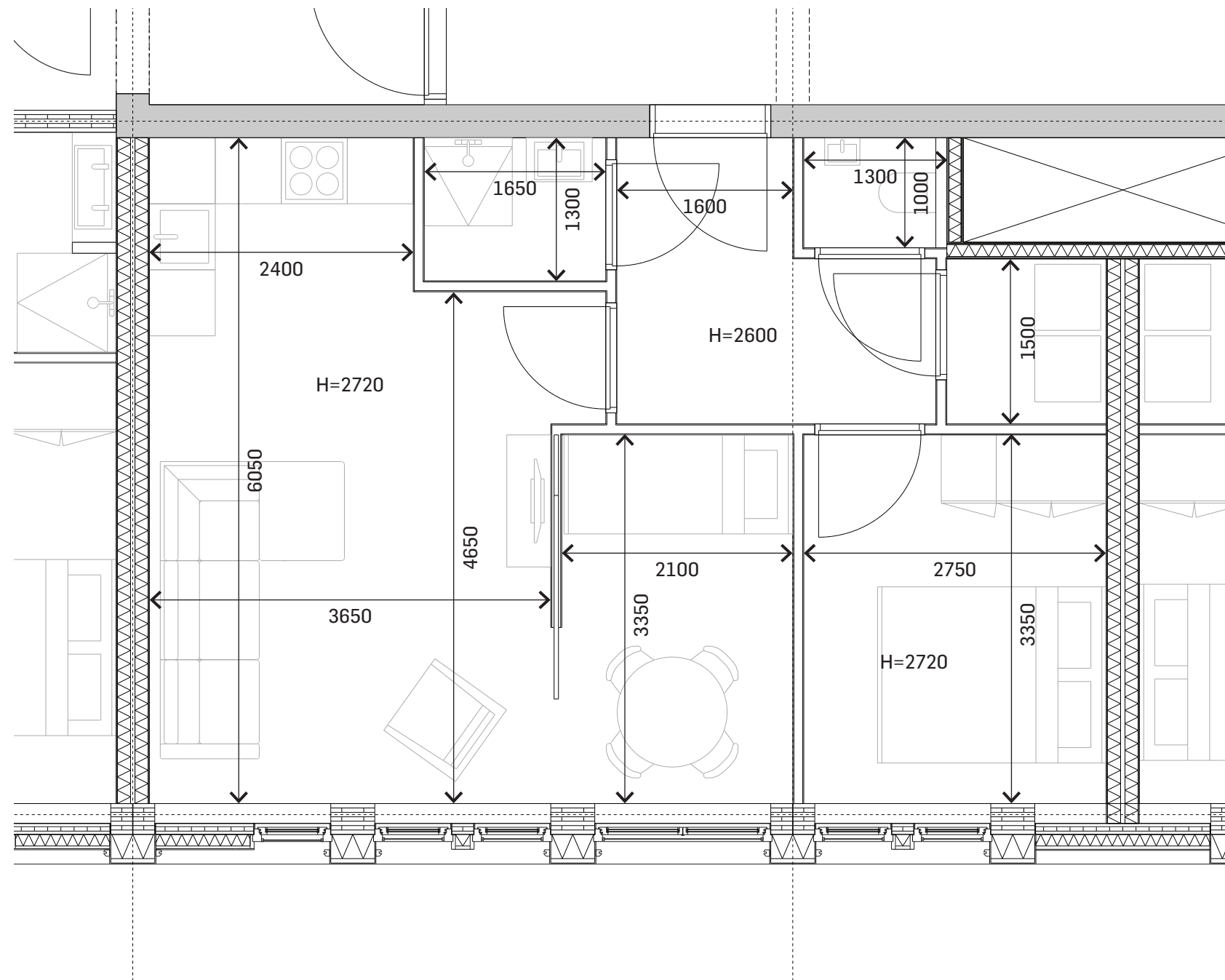


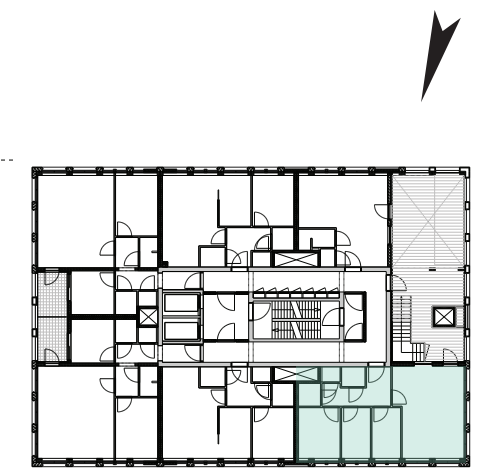
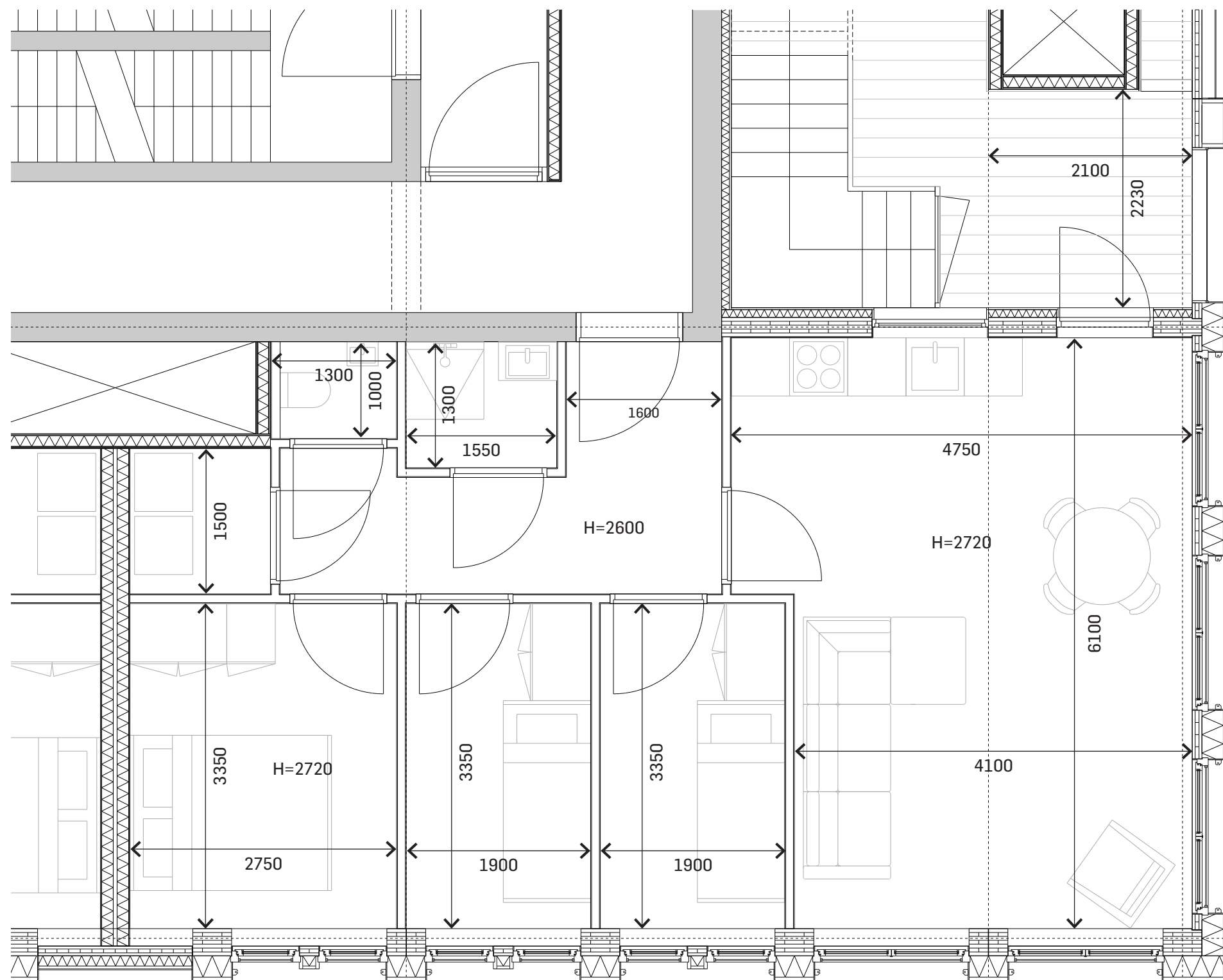
SOUTH WEST



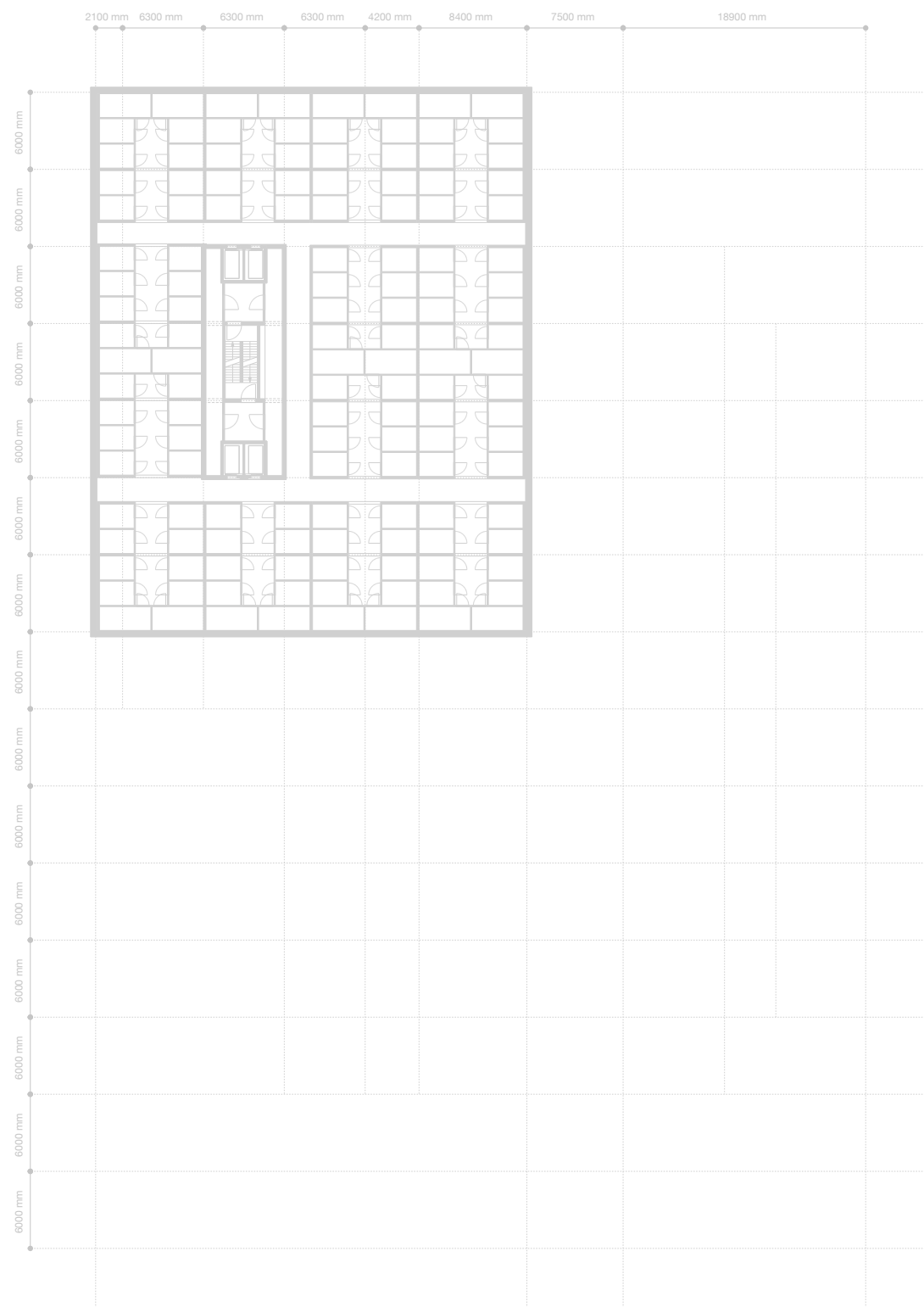
SOUTH EAST



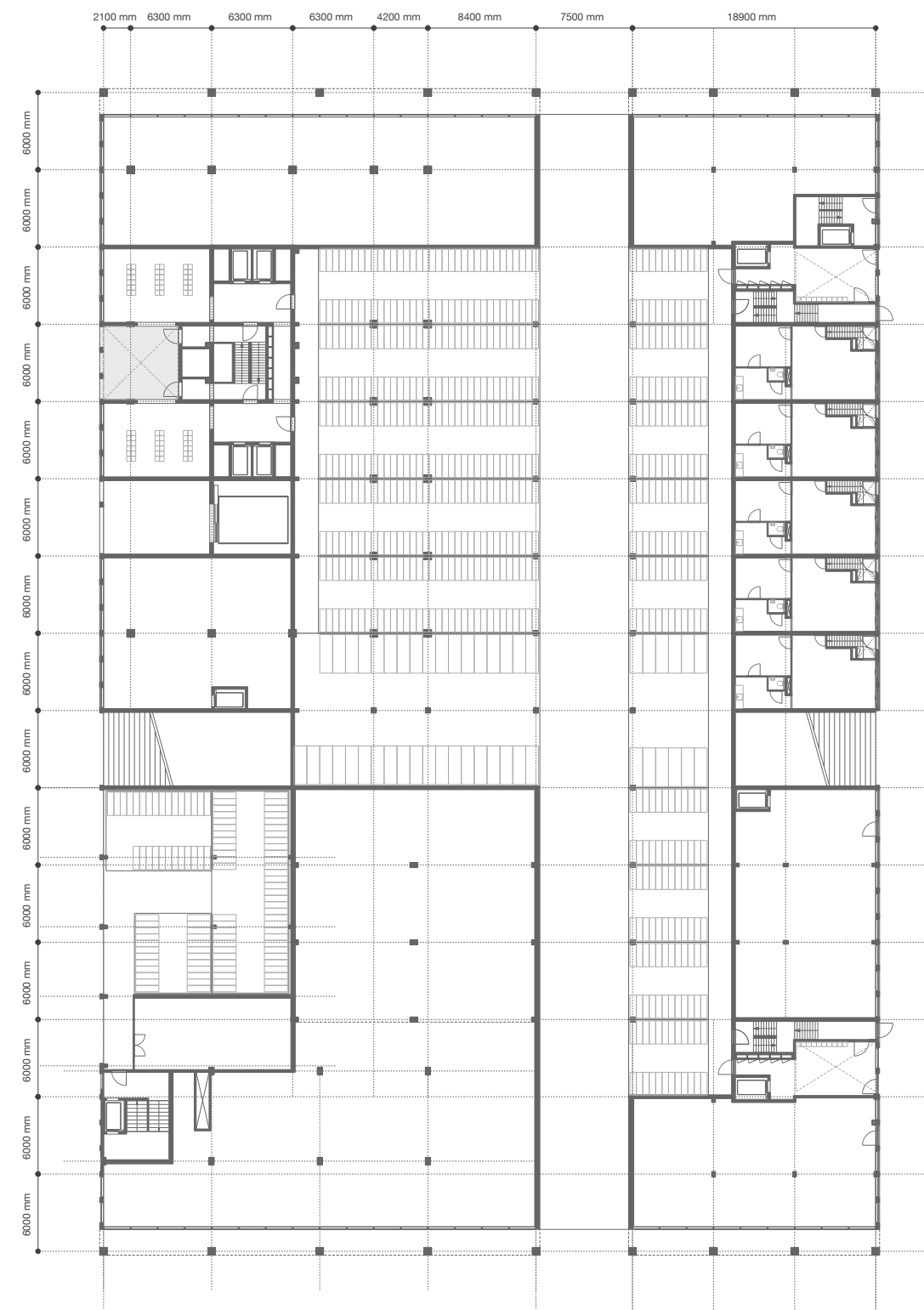






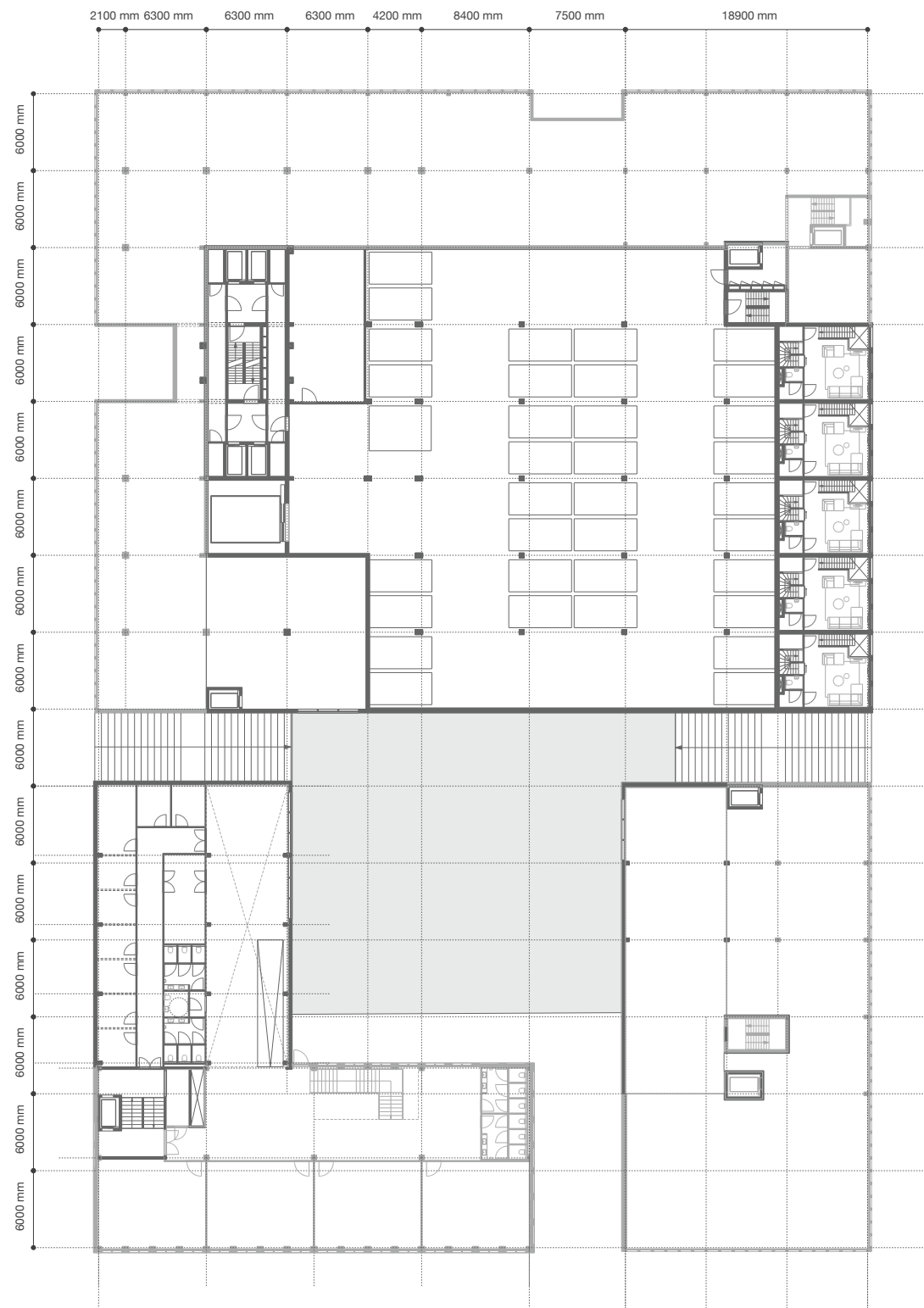


-1 -3000

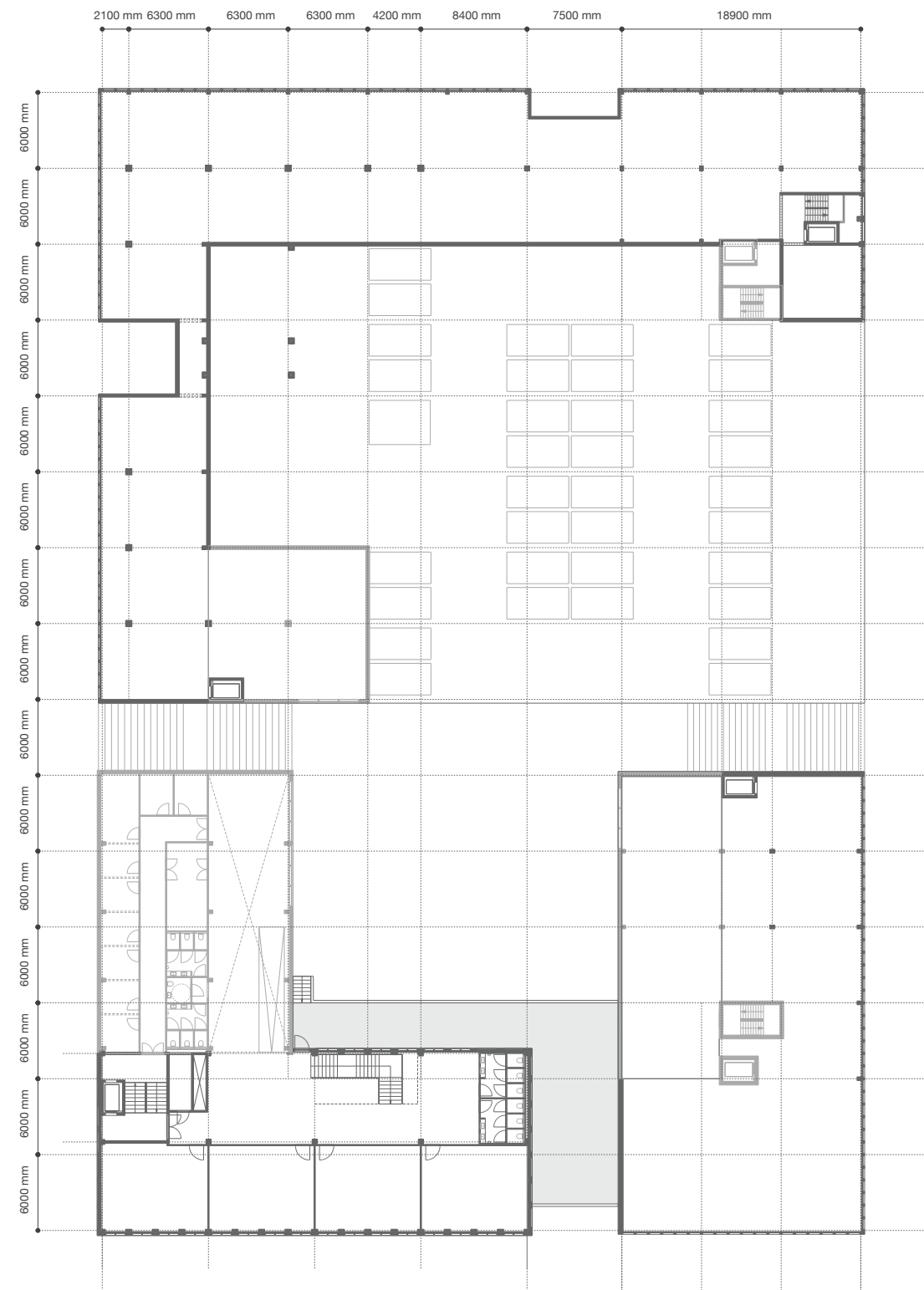


0 +0000



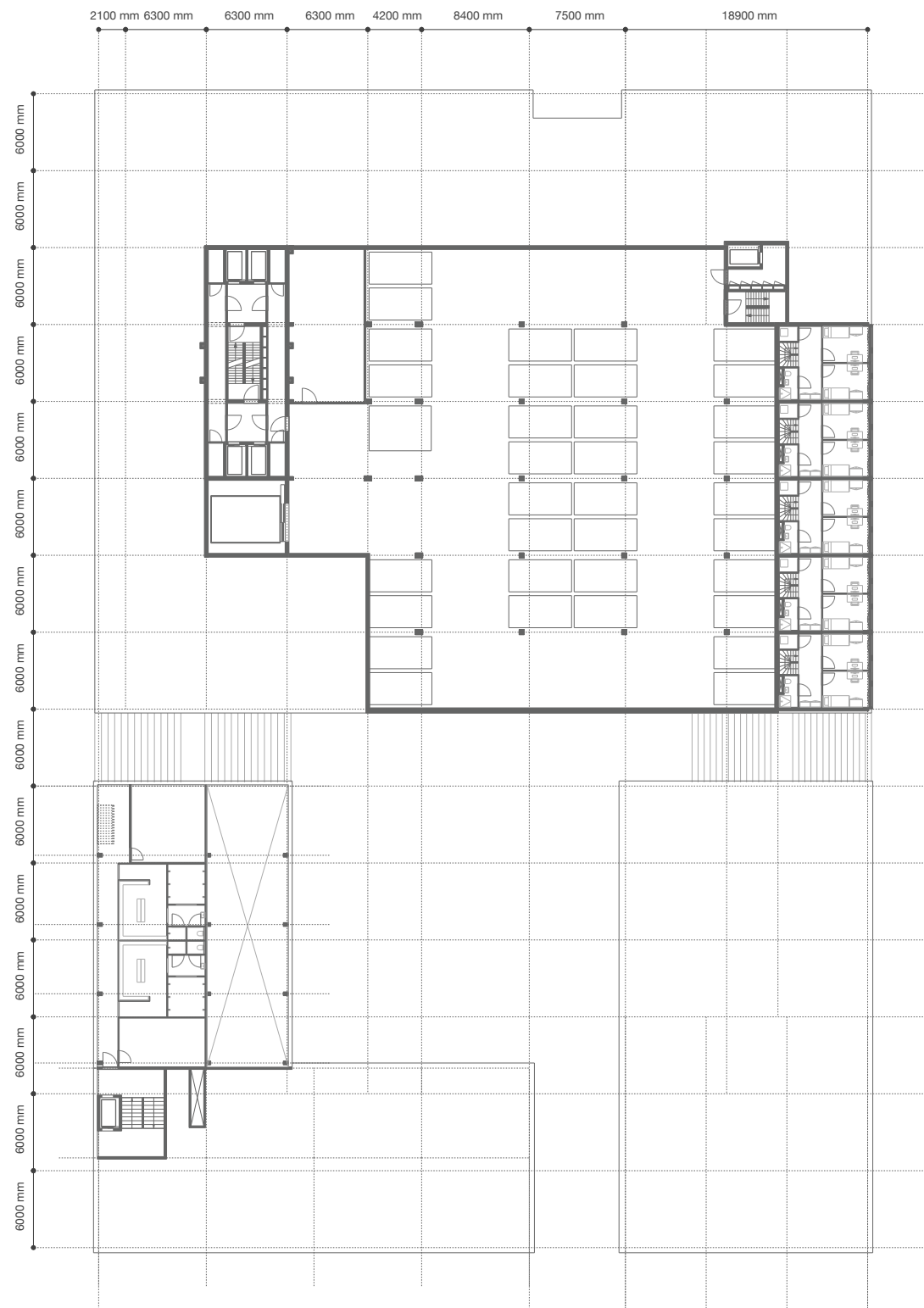


1 + 3000

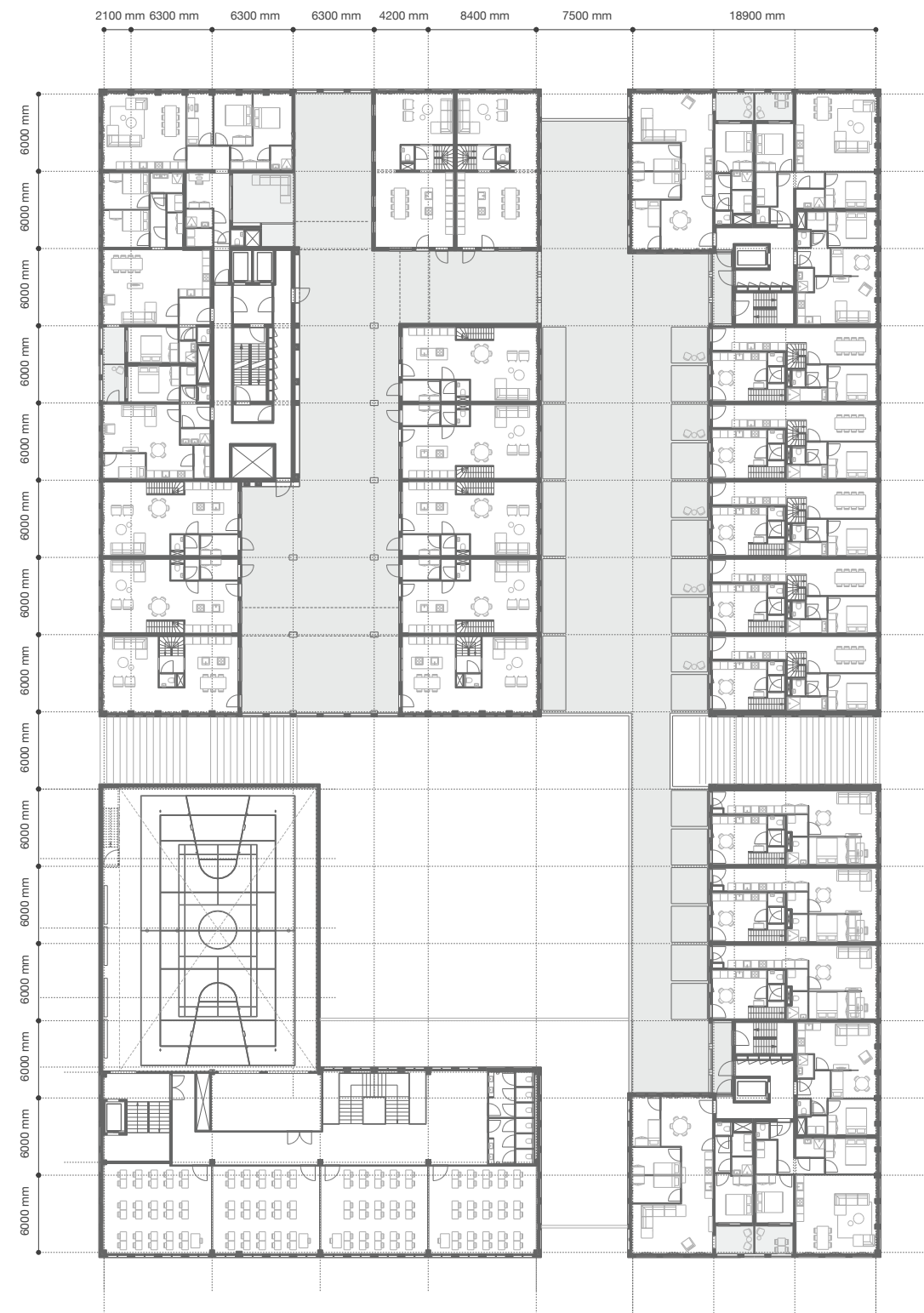


1,5 + 4500



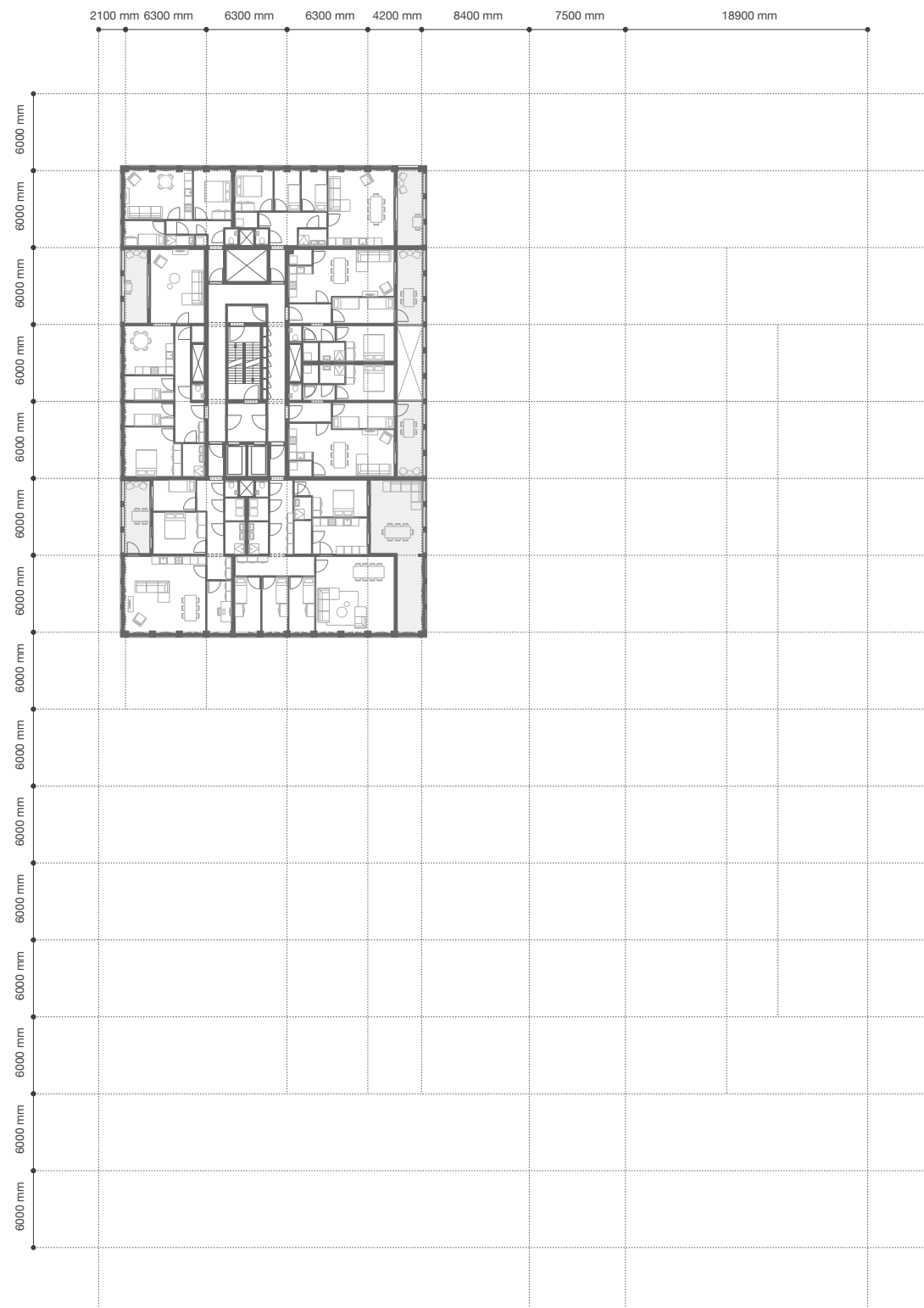


2 +6000



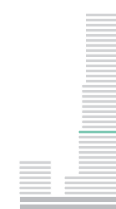
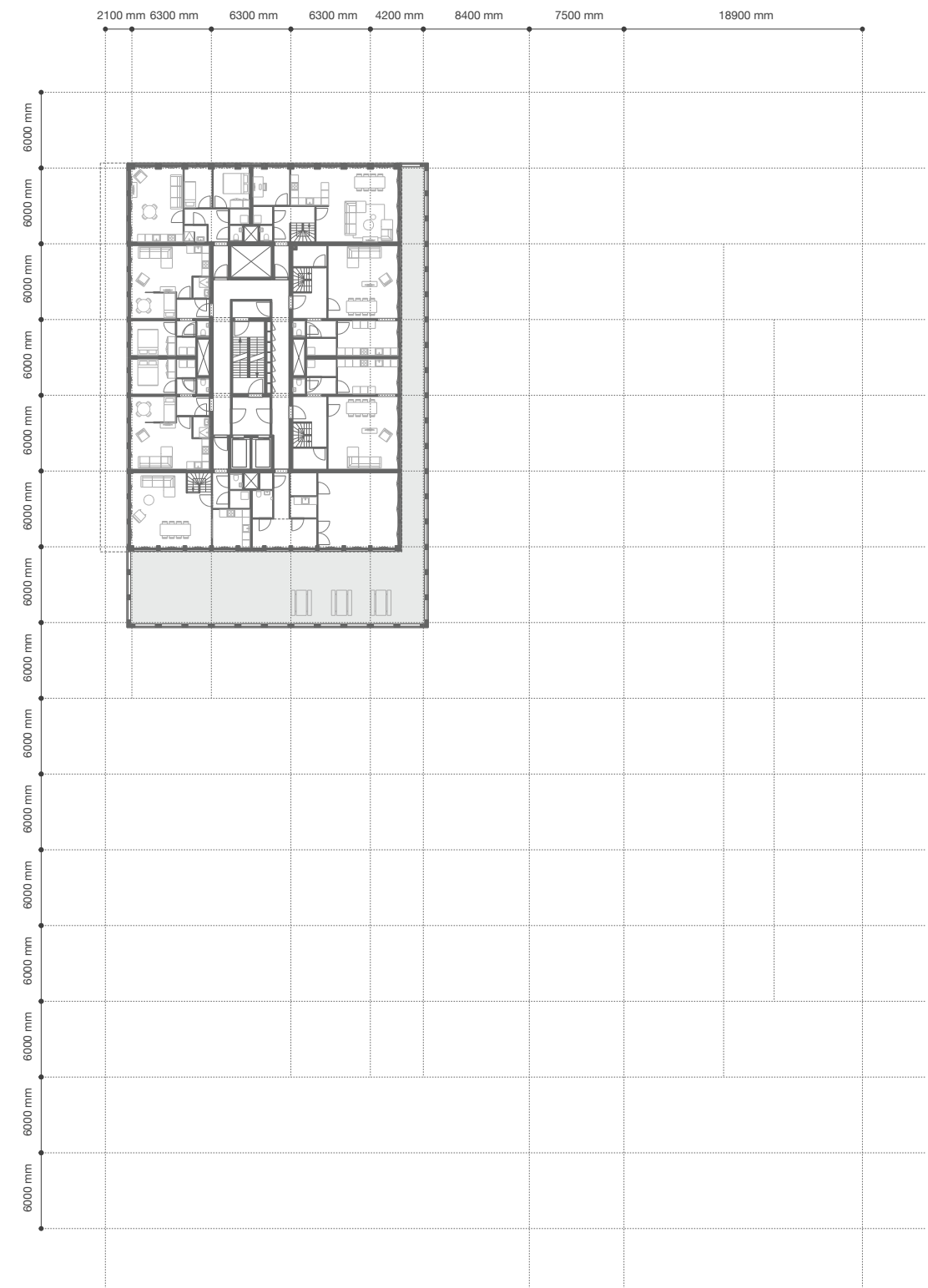
3 +9000

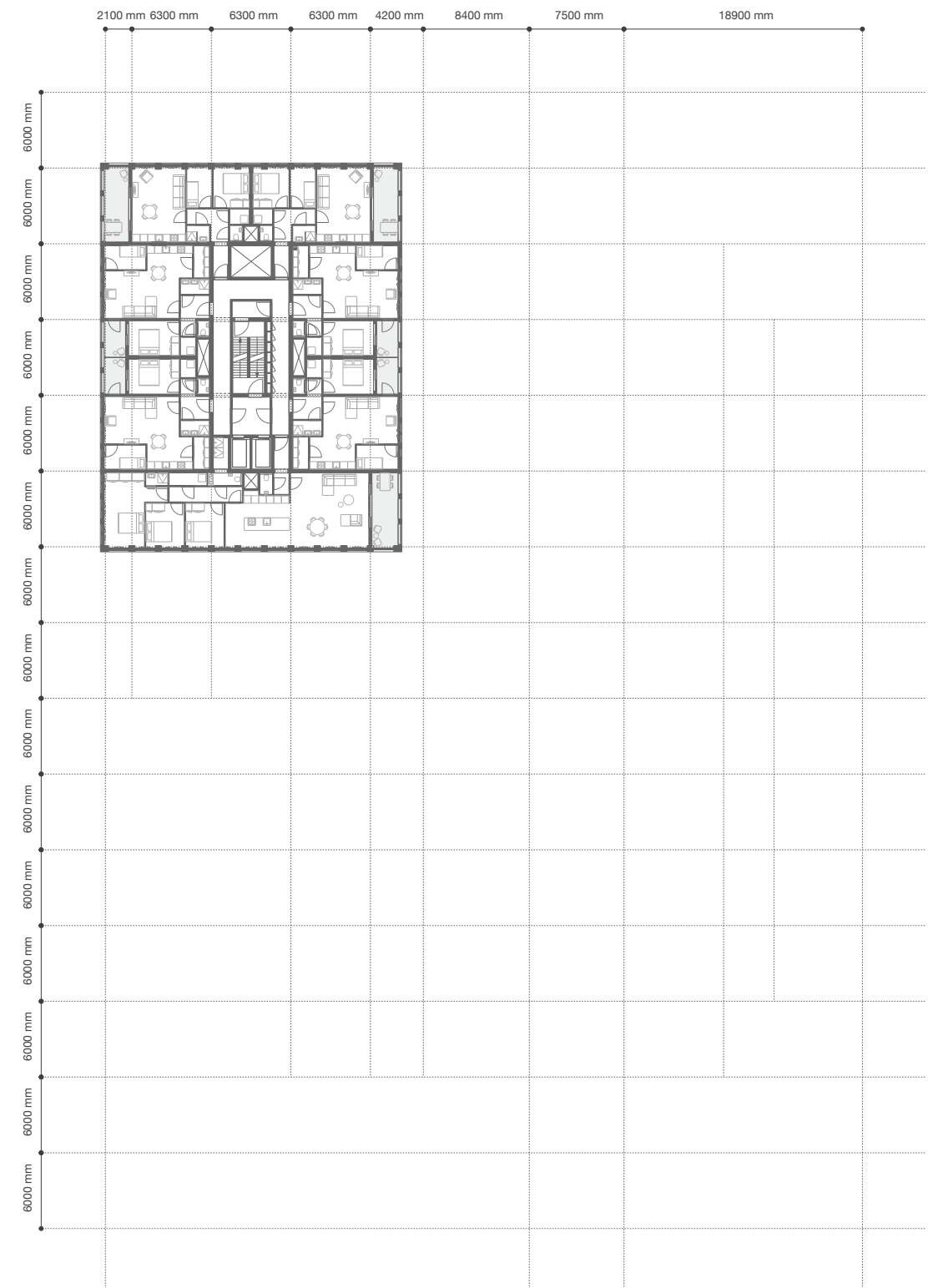
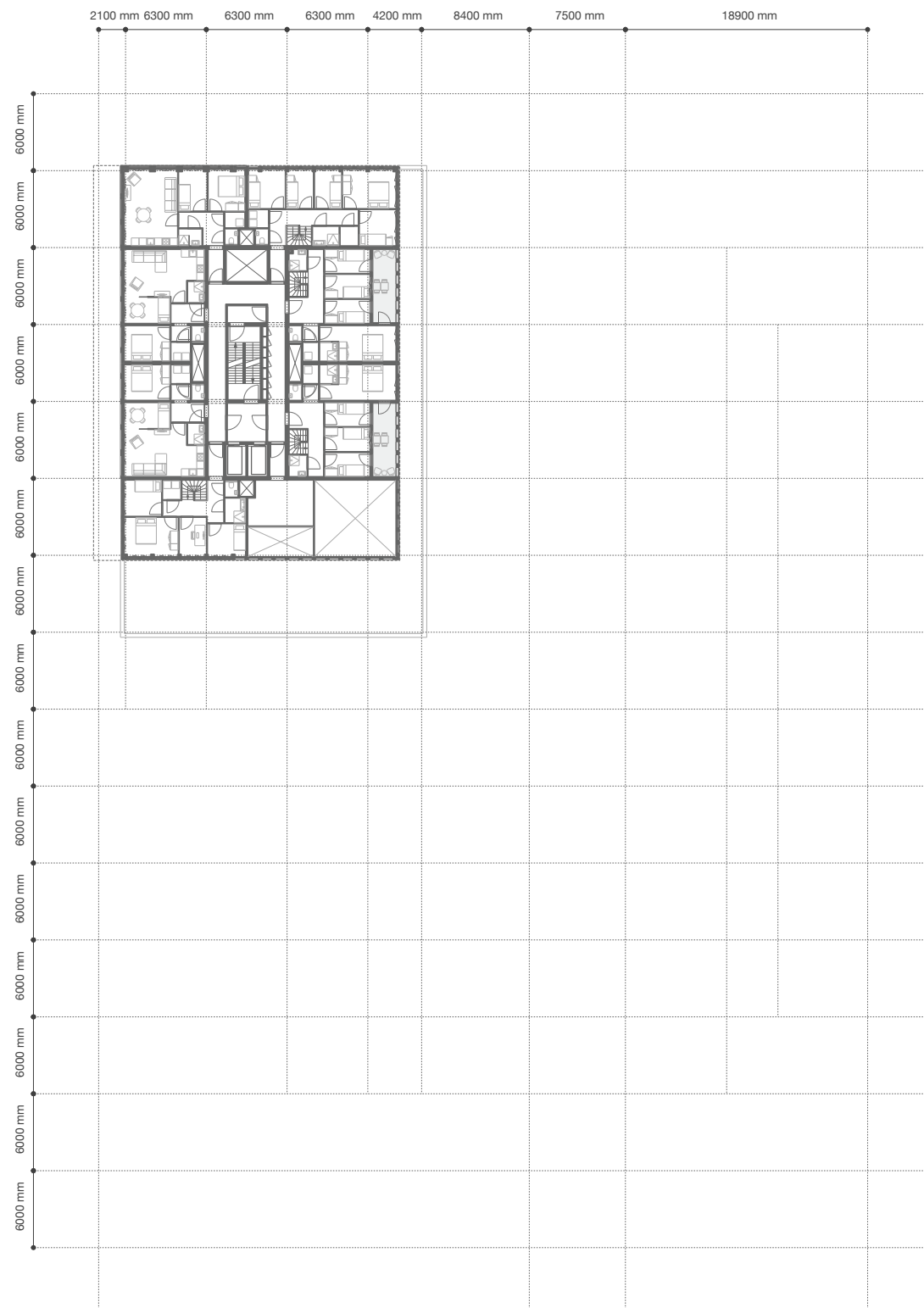




8 + 24000
11 + 33000
14 + 42000

14 +42000

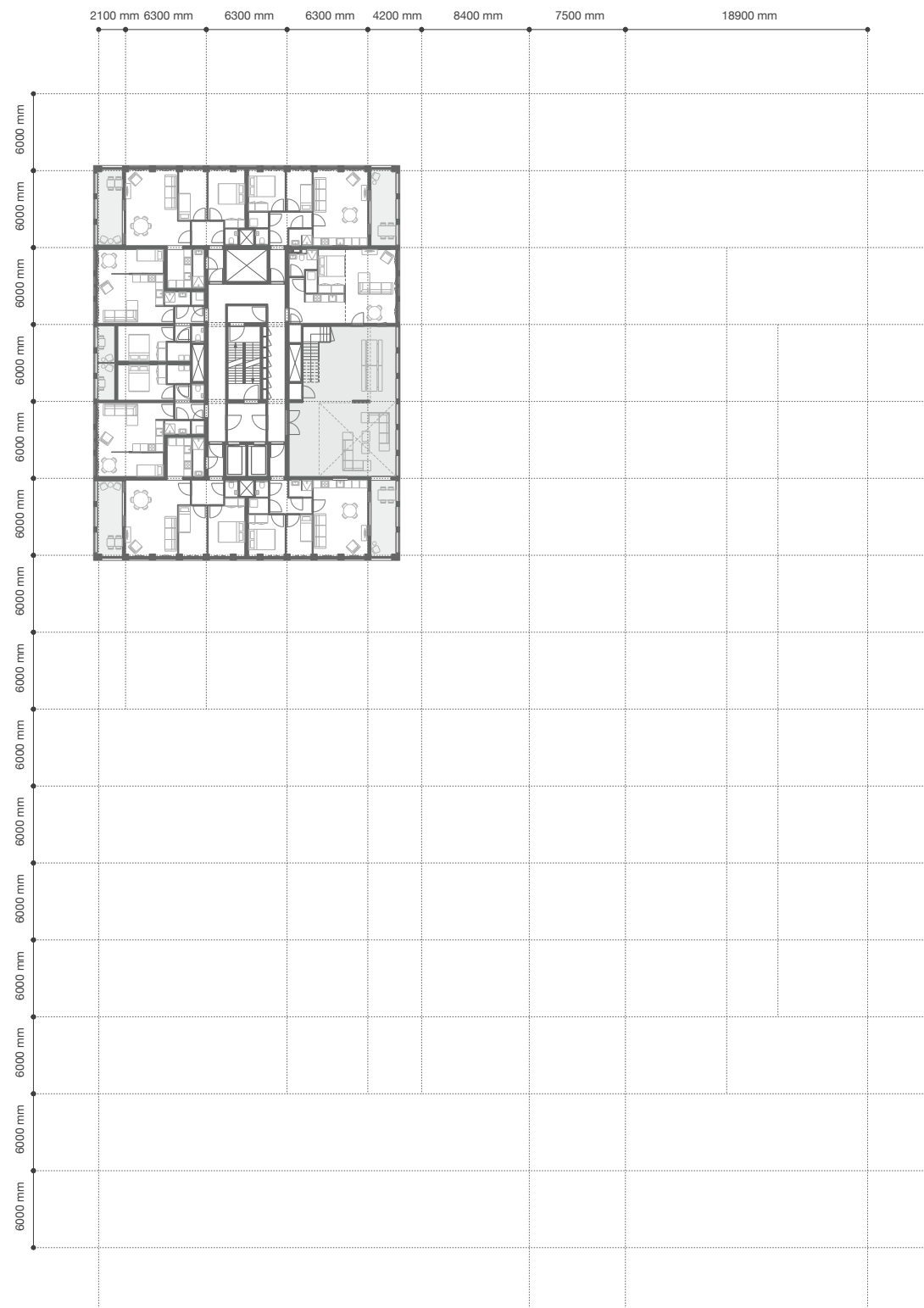




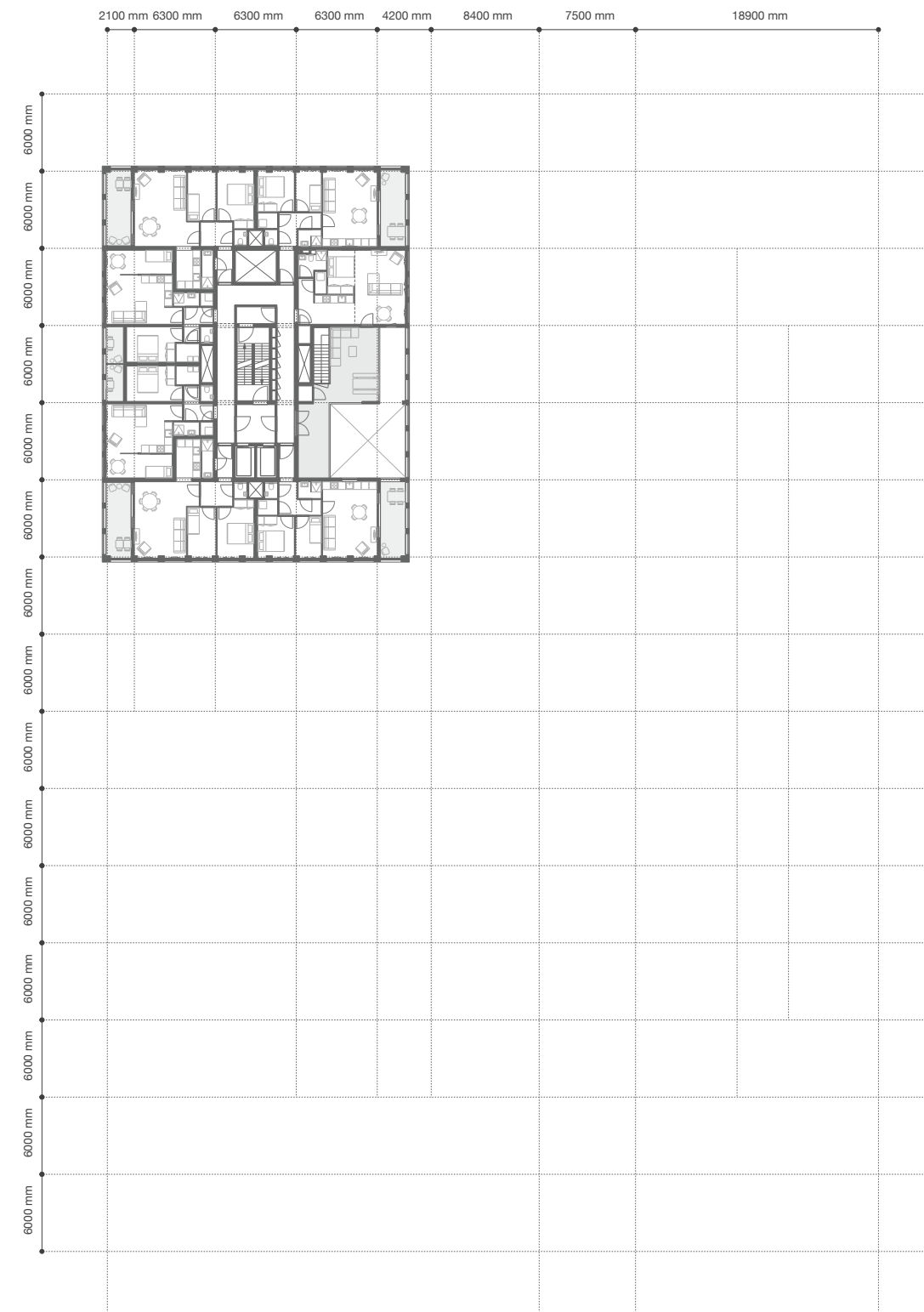
17 +51000

23 +69000



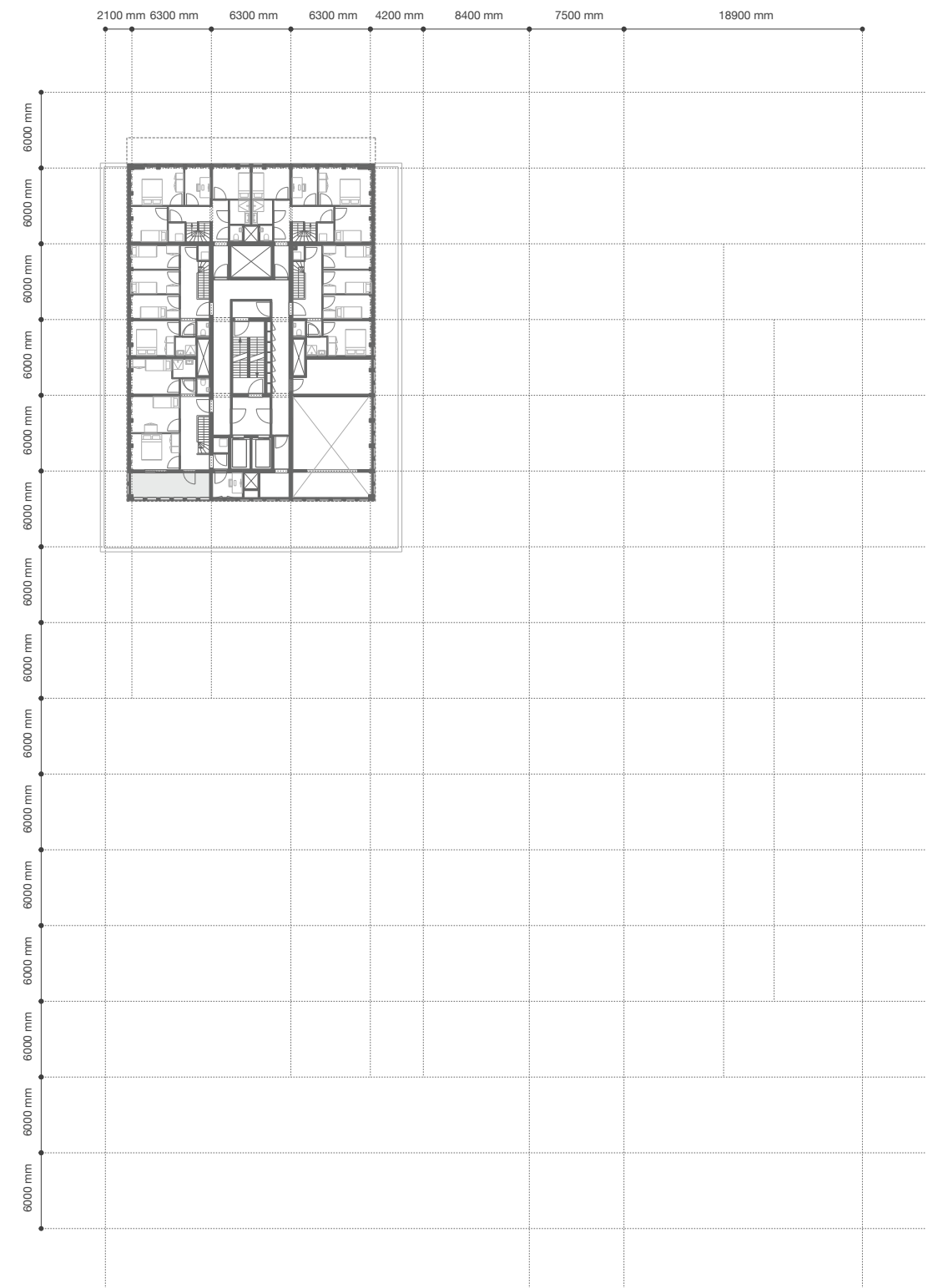
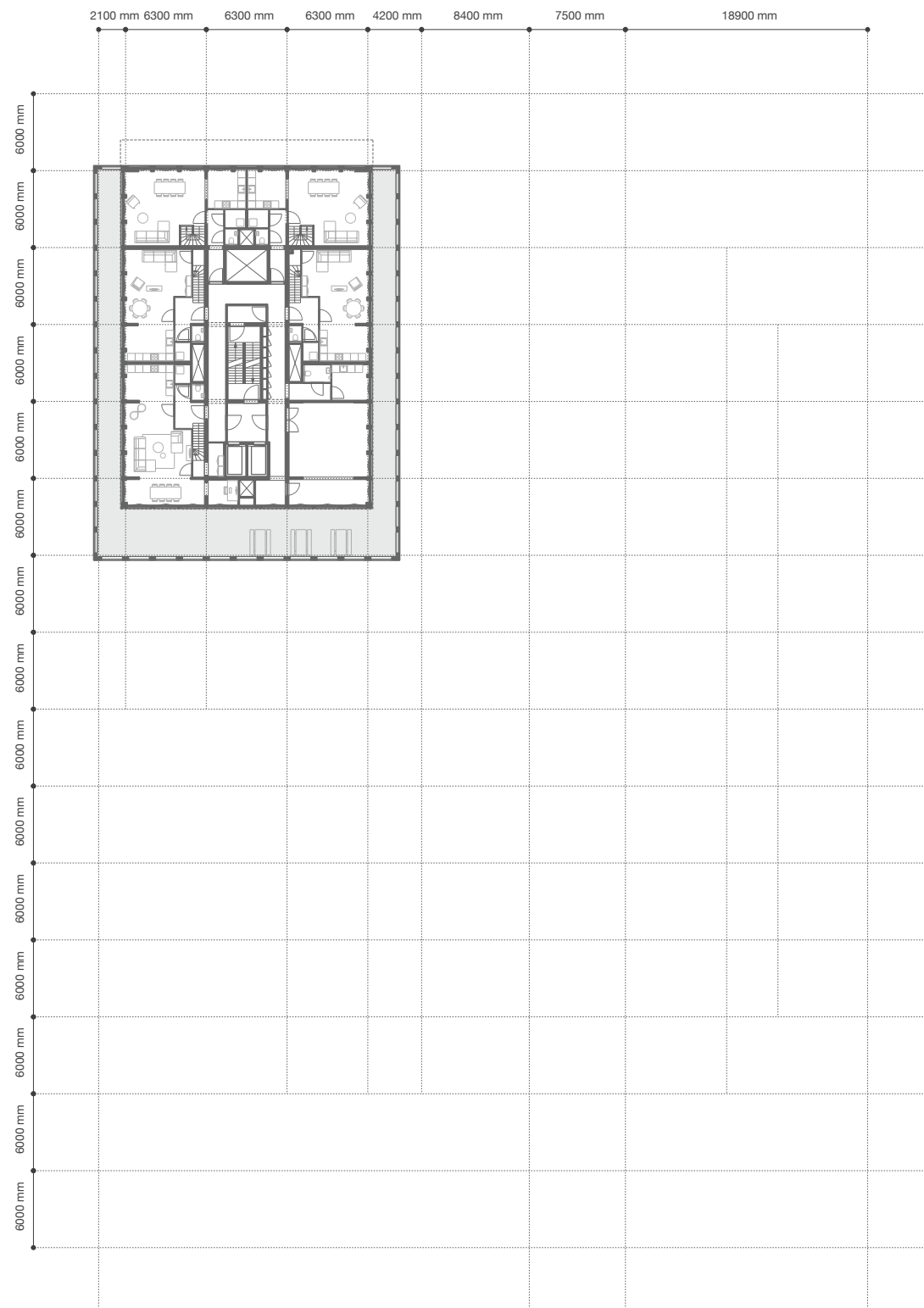


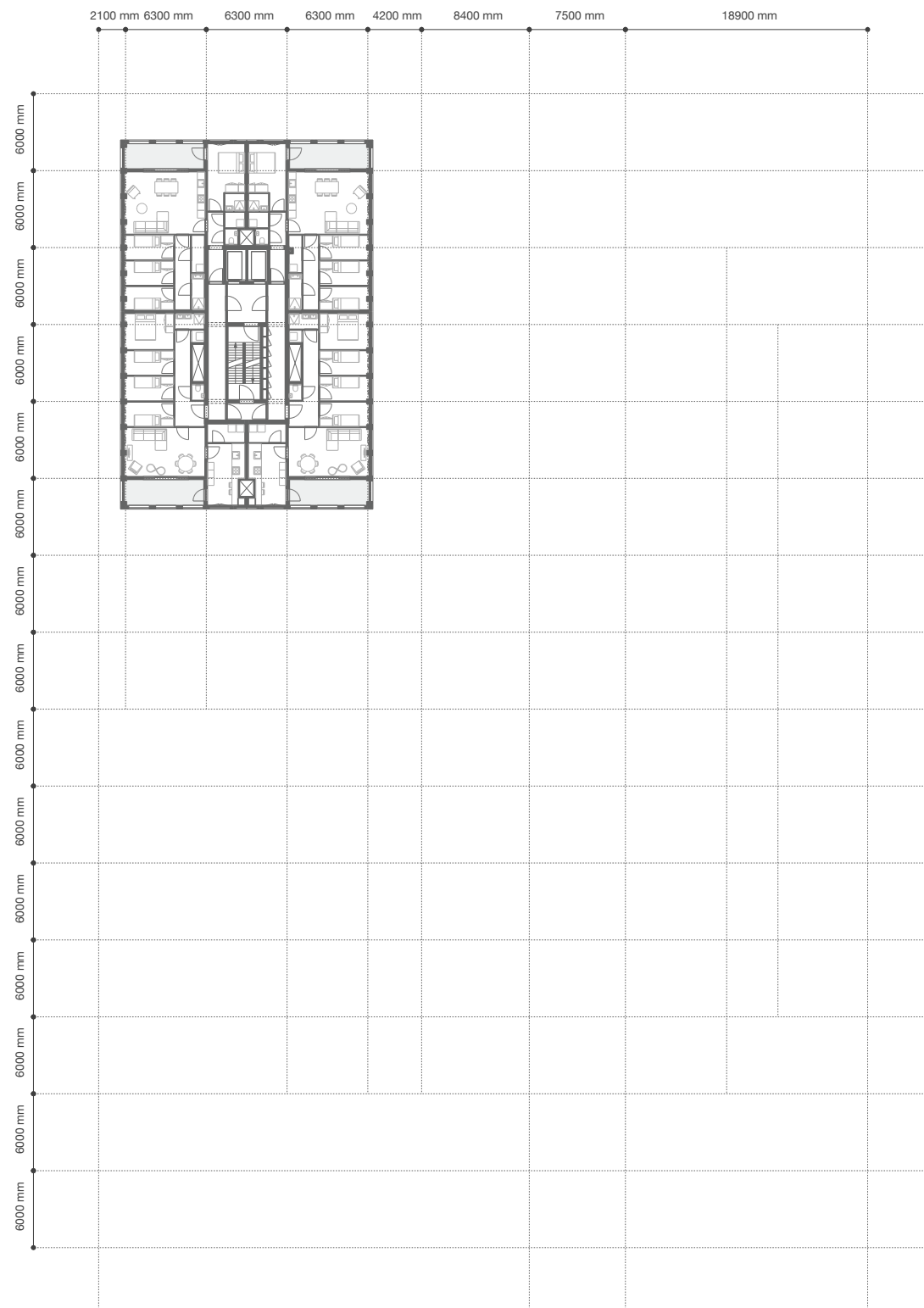
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21 +63000



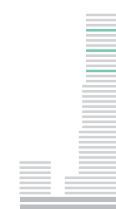
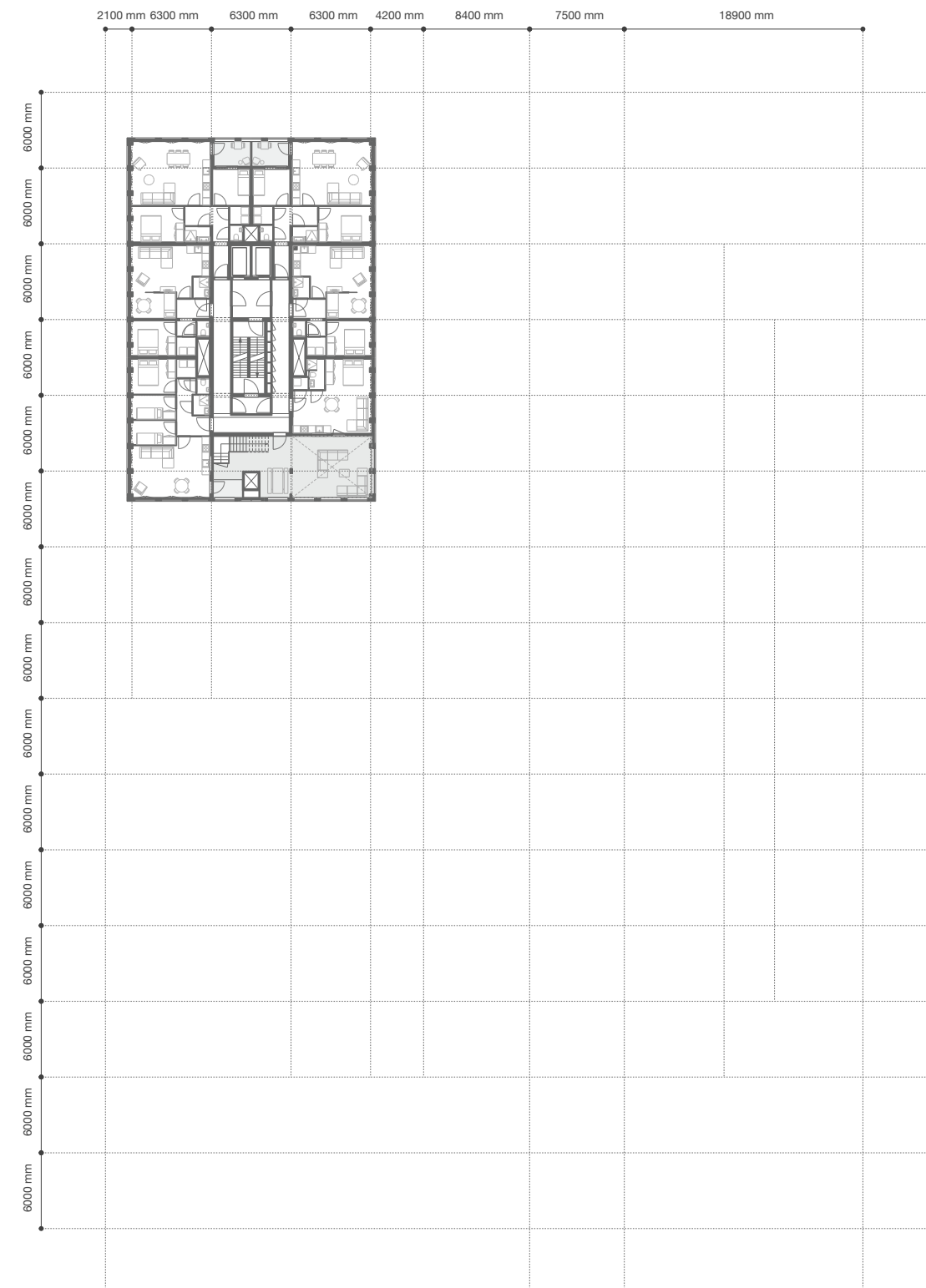
19 +57000
22 +66000





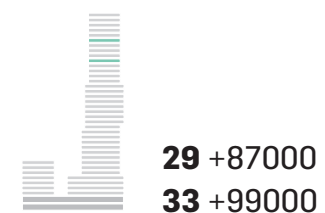
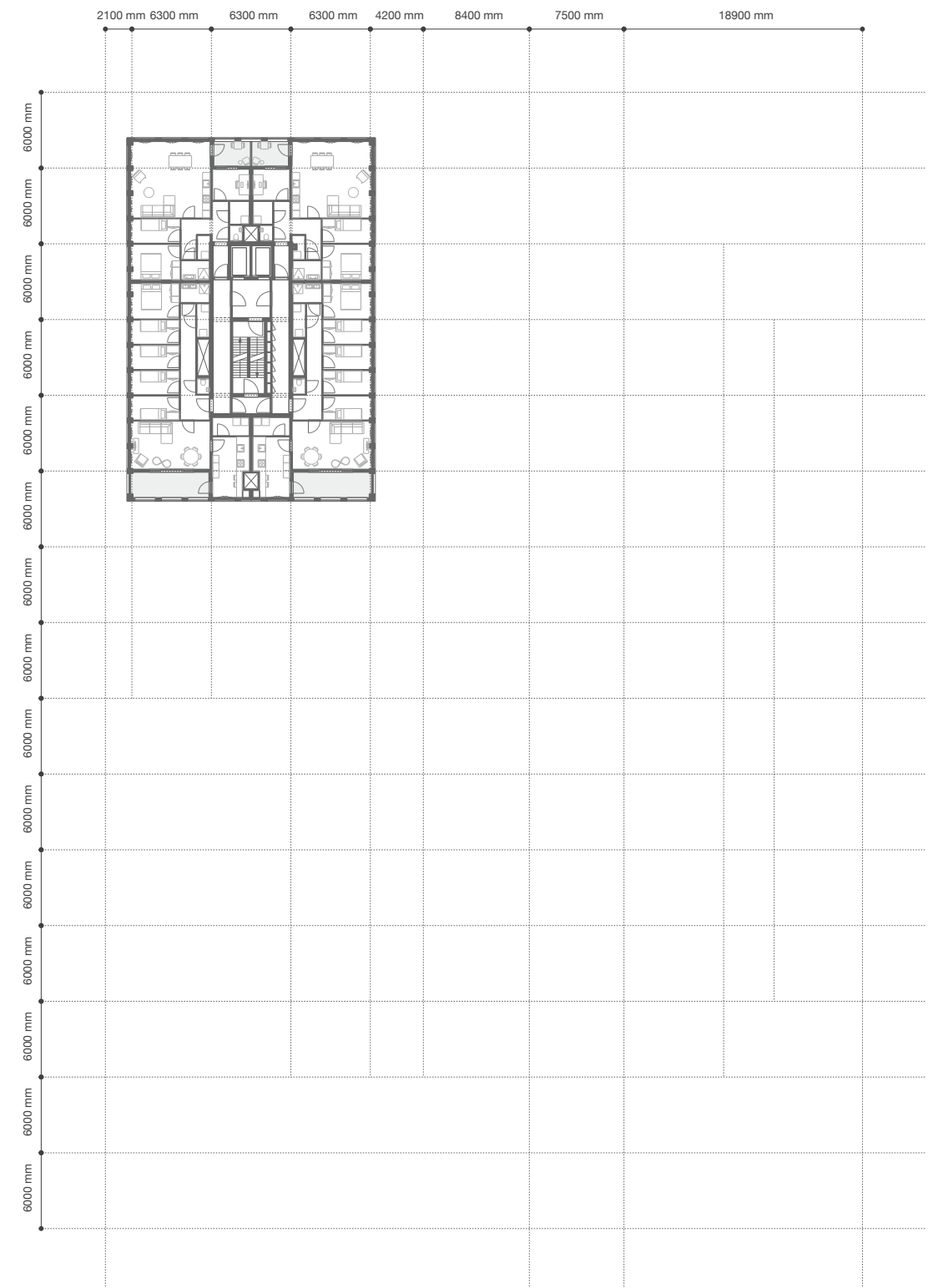
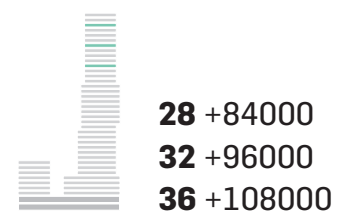
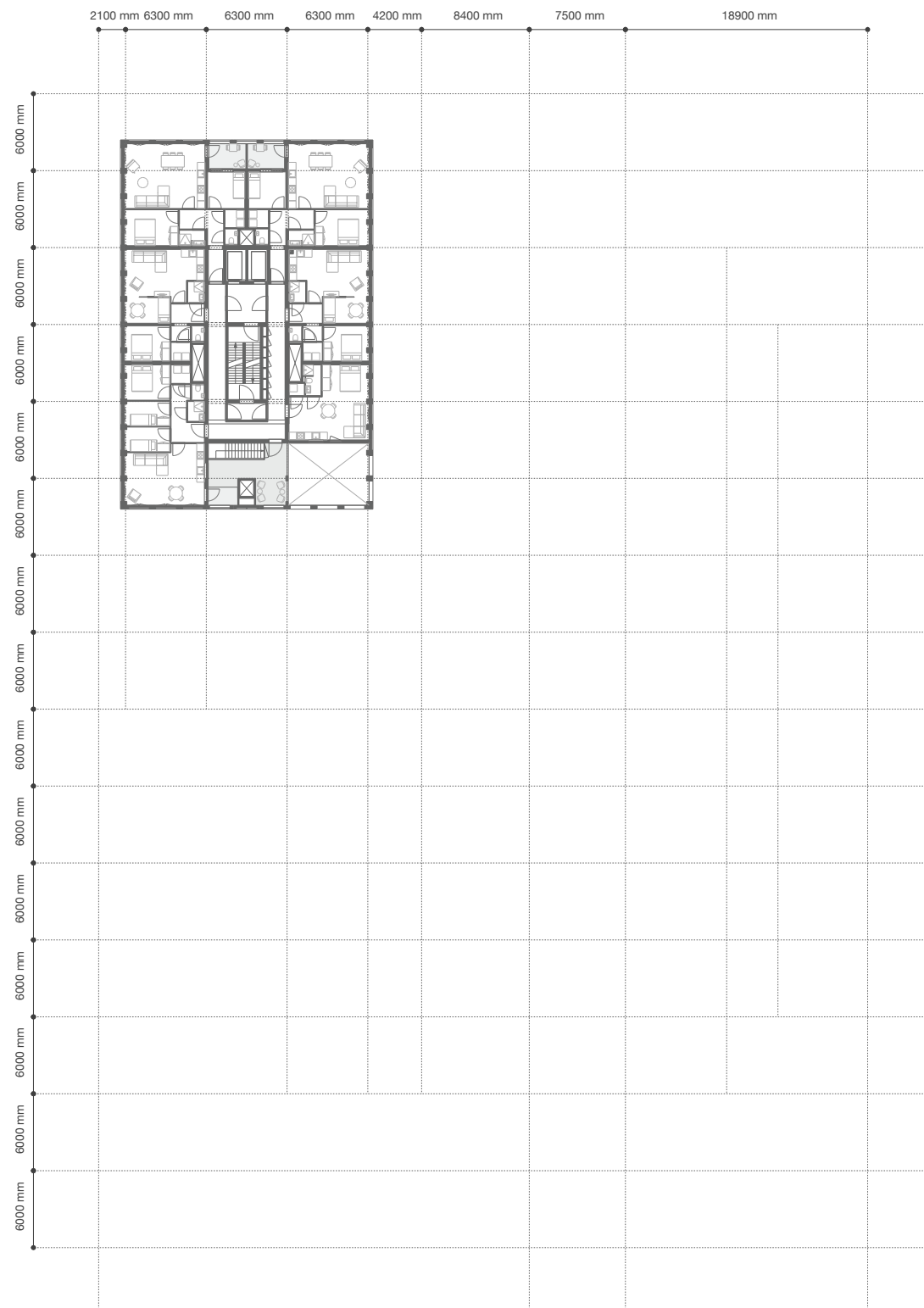


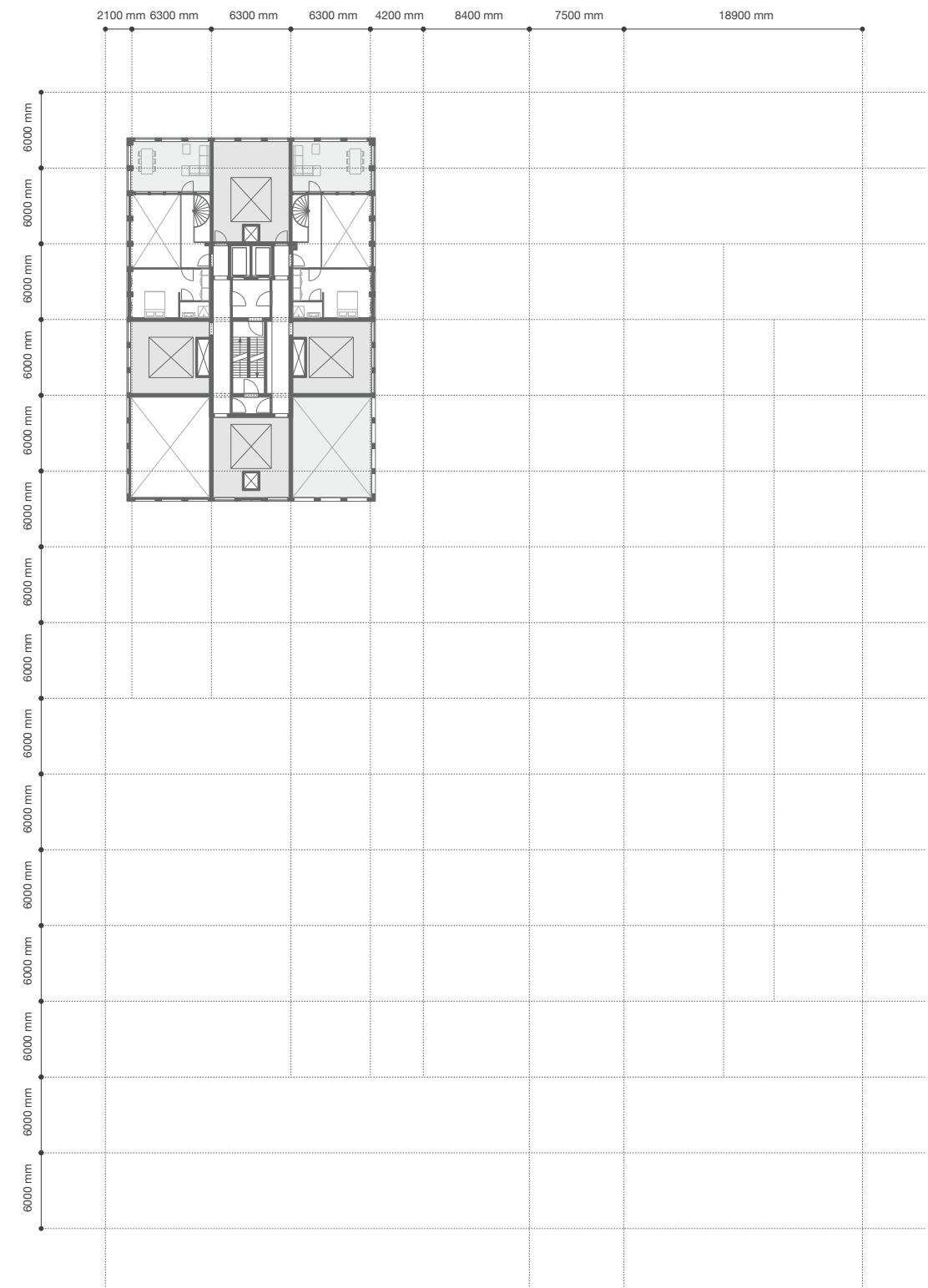
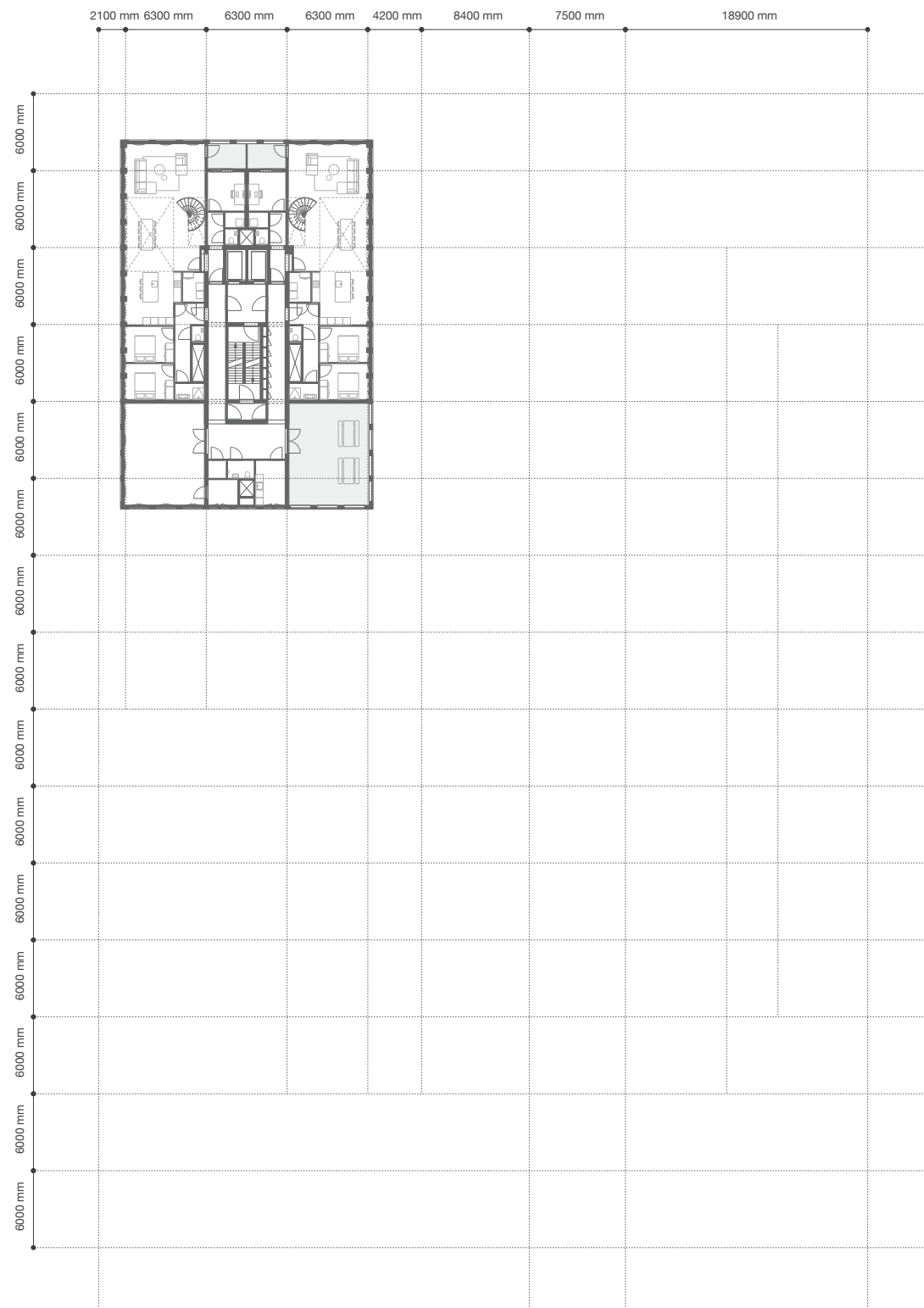
26 +78000
30 +90000
34 +102000

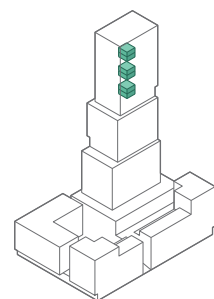
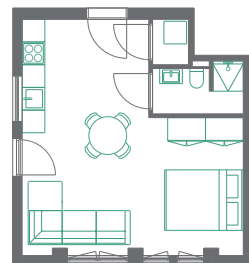


27 +81000
31 +93000
35 +15000

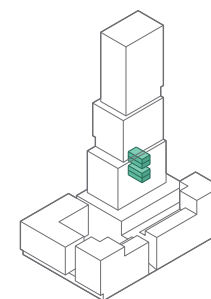
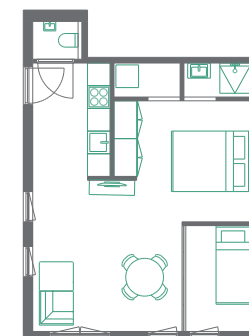






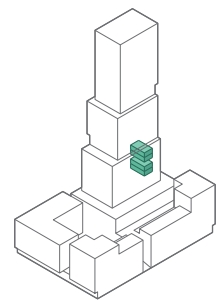
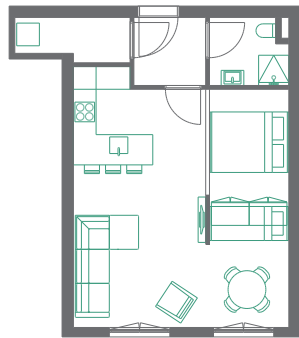


STUDIO
6 DWELLINGS
34,8 M² INDOOR SPACE
1 BEDROOM

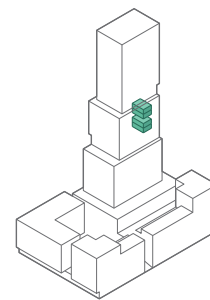
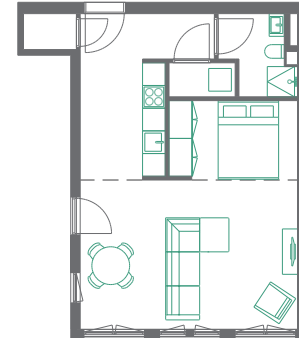


STUDIO
4 DWELLINGS
42,2 M² INDOOR SPACE
1-2 BEDROOMS



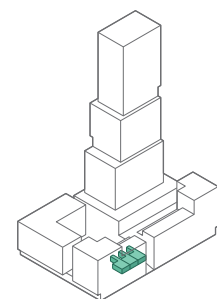
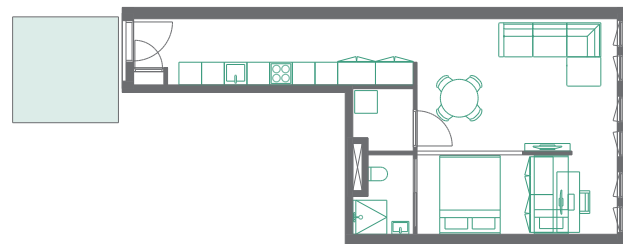


STUDIO
4 DWELLINGS
48,0 M² INDOOR SPACE
1-2 BEDROOMS

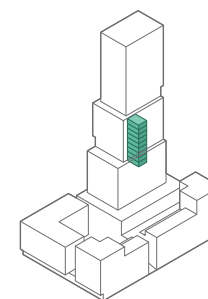
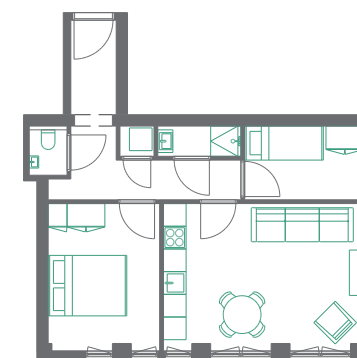


STUDIO
4 DWELLINGS
49,0 M² INDOOR SPACE
1 BEDROOM



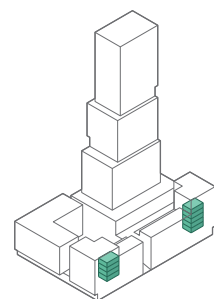
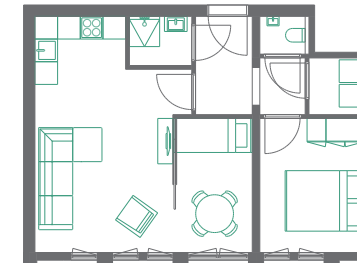
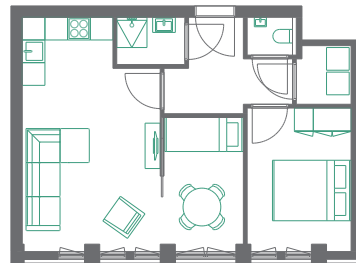


STUDIO
3 DWELLINGS
49,4 M² INDOOR SPACE
7,9 M² OUTDOOR SPACE
1-2 BEDROOMS

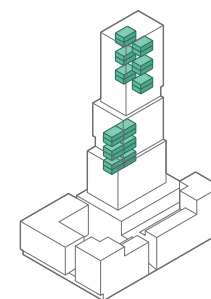


APARTMENT
4 DWELLINGS
49,6 M² INDOOR SPACE
1-2 BEDROOMS



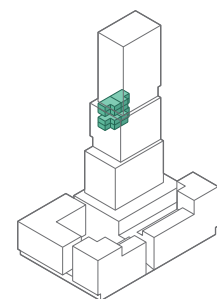


APARTMENT
9 DWELLINGS
49,7 M² INDOOR SPACE
1-2 BEDROOMS

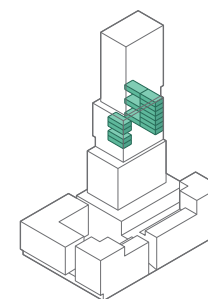
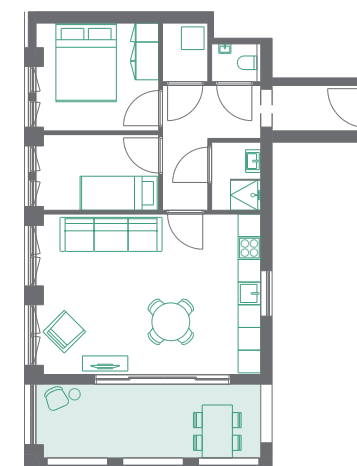


APARTMENT
24 DWELLINGS
50,0 M² INDOOR SPACE
1-2 BEDROOMS



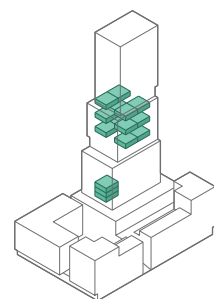
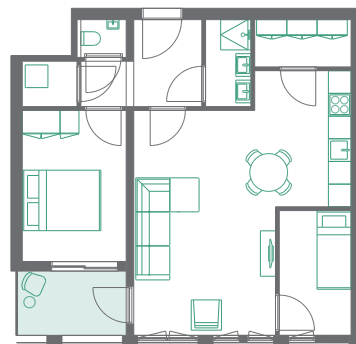


APARTMENT
8 DWELLINGS
54,7 M² INDOOR SPACE
4,0 M² OUTDOOR SPACE
1-2 BEDROOMS

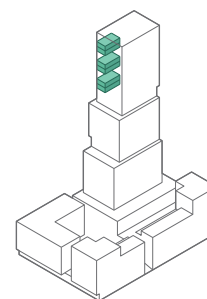
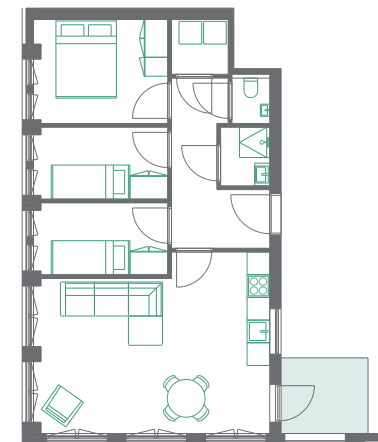


APARTMENT
14 DWELLINGS
57,9 M² INDOOR SPACE
11,5 M² OUTDOOR SPACE
1-2 BEDROOMS



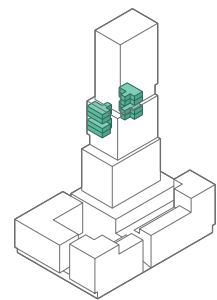
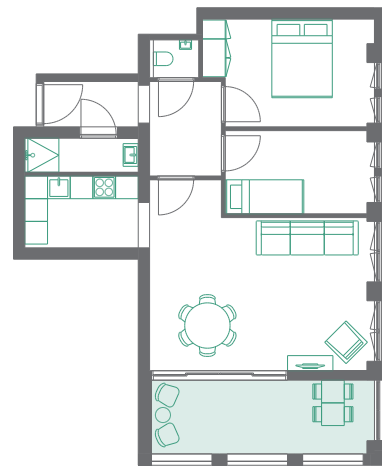


APARTMENT
15 DWELLINGS
64,3 M² INDOOR SPACE
4,9 M² OUTDOOR SPACE
1-2 BEDROOMS

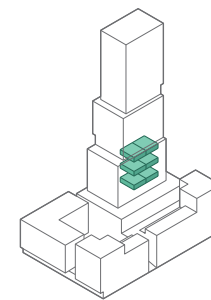


APARTMENT
6 DWELLINGS
66,8 M² INDOOR SPACE
4,0 M² OUTDOOR SPACE
1-3 BEDROOMS



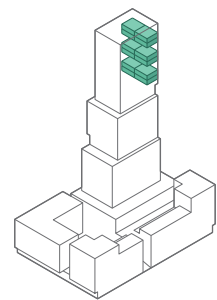
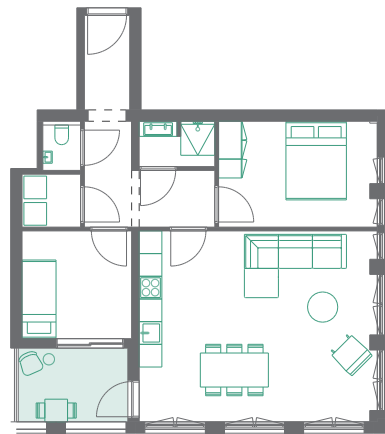


APARTMENT
8 DWELLINGS
66,9 M² INDOOR SPACE
11,4 M² OUTDOOR SPACE
1-2 BEDROOMS

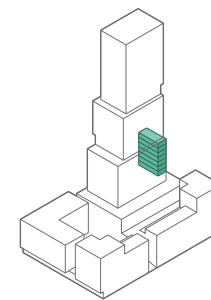
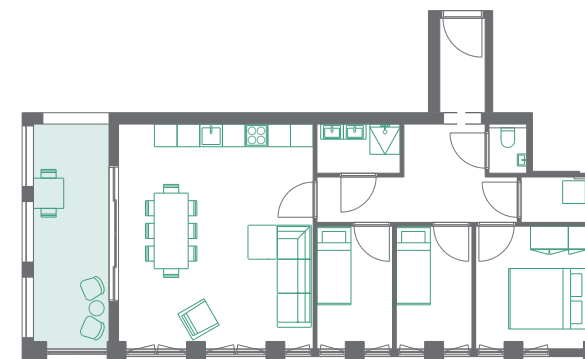


APARTMENT
6 DWELLINGS
68,3 M² INDOOR SPACE
11,7 M² OUTDOOR SPACE
1-2 BEDROOMS



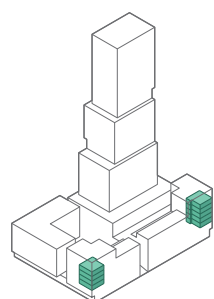
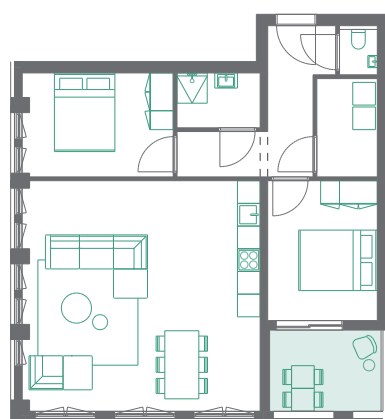


APARTMENT
12 DWELLINGS
69,6 M² INDOOR SPACE
5,7 M² OUTDOOR SPACE
1-2 BEDROOMS

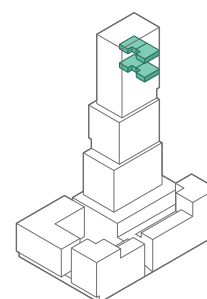


APARTMENT
7 DWELLINGS
74,8 M² INDOOR SPACE
11,8 M² OUTDOOR SPACE
1-3 BEDROOMS

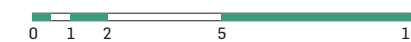


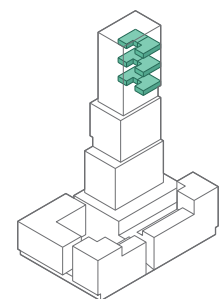
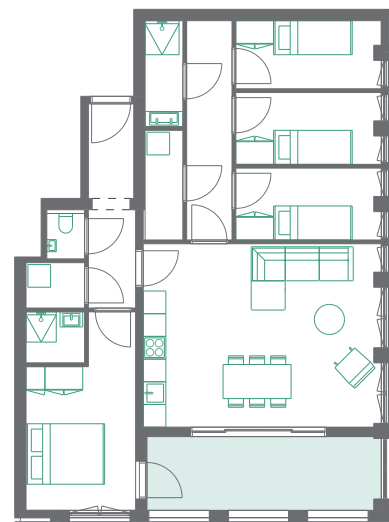


APARTMENT
9 DWELLINGS
79,2 M² INDOOR SPACE
6,3 M² OUTDOOR SPACE
1-3 BEDROOMS

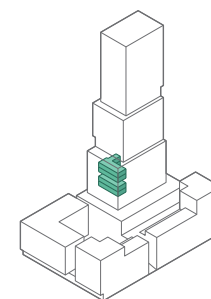
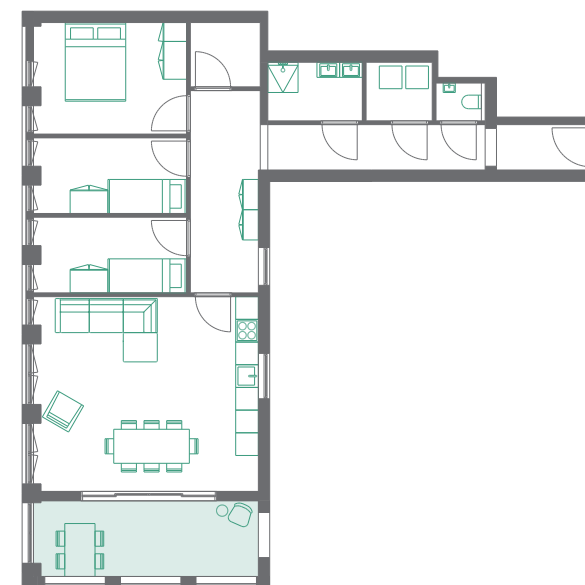


APARTMENT
4 DWELLINGS
88,3 M² INDOOR SPACE
5,7 M² OUTDOOR SPACE
1-3 BEDROOMS



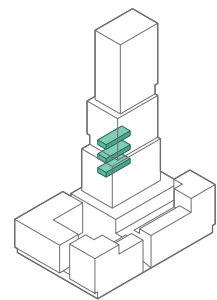
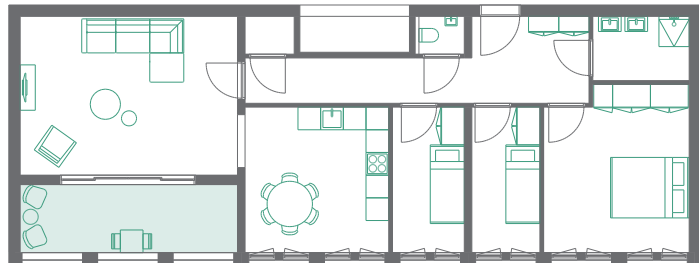


APARTMENT
6 DWELLINGS
93,2 M² INDOOR SPACE
12,0 M² OUTDOOR SPACE
2-4 BEDROOMS

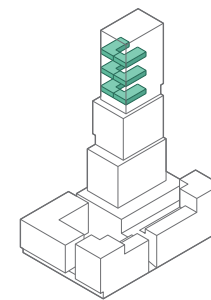
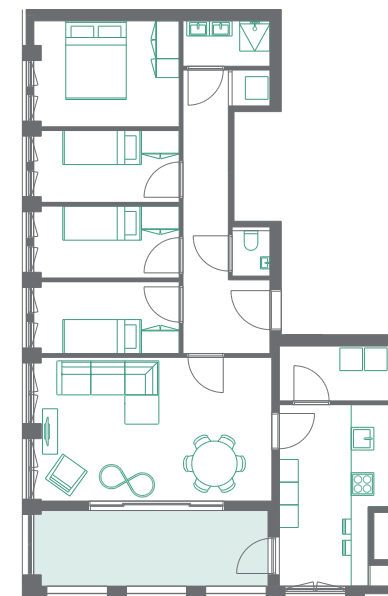


APARTMENT
4 DWELLINGS
93,5 M² INDOOR SPACE
11,8 M² OUTDOOR SPACE
1-3 BEDROOMS



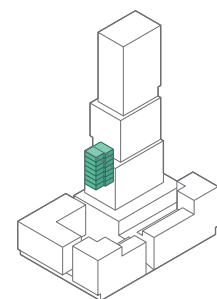


APARTMENT
3 DWELLINGS
93,5 M² INDOOR SPACE
10,3 M² OUTDOOR SPACE
1-3 BEDROOMS

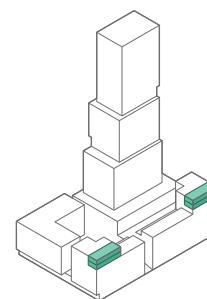
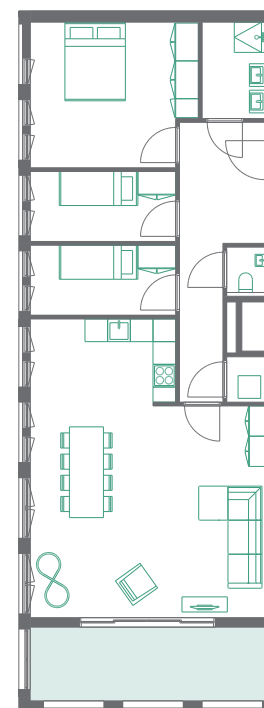


APARTMENT
6 DWELLINGS
93,8 M² INDOOR SPACE
12,3 M² OUTDOOR SPACE
1-4 BEDROOMS



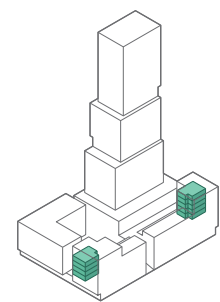
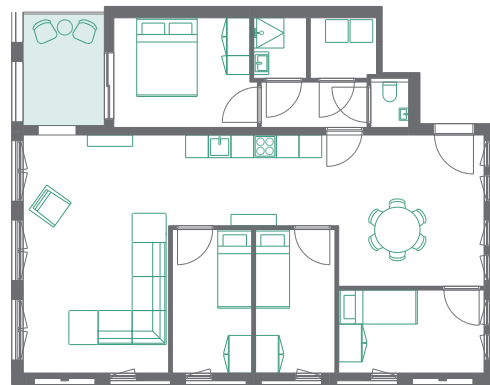


APARTMENT
7 DWELLINGS
94,0 M² INDOOR SPACE
11,3 M² OUTDOOR SPACE
2-3 BEDROOMS

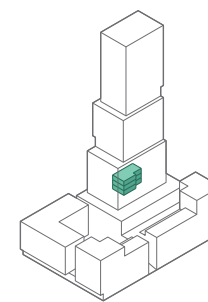


APARTMENT
9 DWELLINGS
96,5 M² INDOOR SPACE
12,5 M² OUTDOOR SPACE
1-4 BEDROOMS



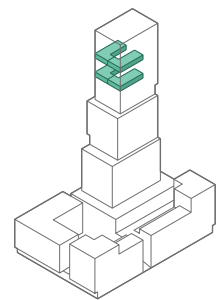
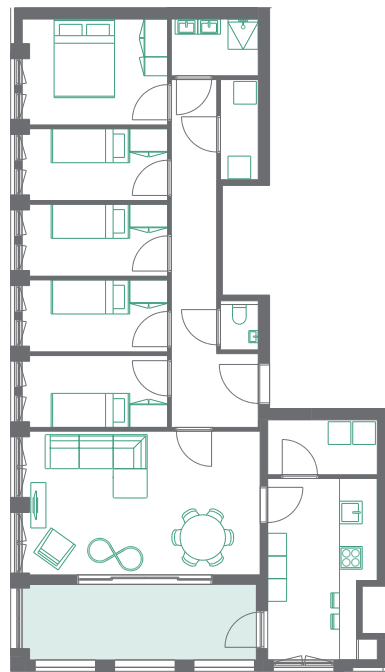


APARTMENT
9 DWELLINGS
98,6 M² INDOOR SPACE
6,3 M² OUTDOOR SPACE
1-5 BEDROOMS

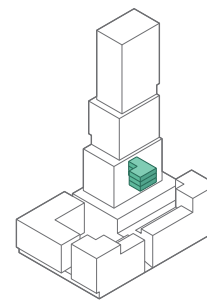


APARTMENT
3 DWELLINGS
100,4 M² INDOOR SPACE
4,9 M² OUTDOOR SPACE
3 BEDROOMS



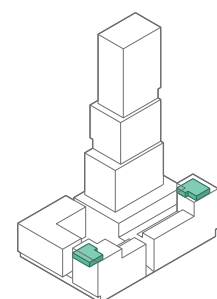


APARTMENT
4 DWELLINGS
107,2 M² INDOOR SPACE
12,3 M² OUTDOOR SPACE
1-5 BEDROOMS

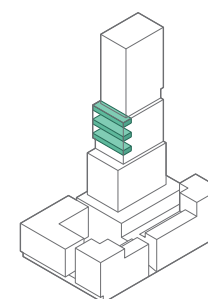
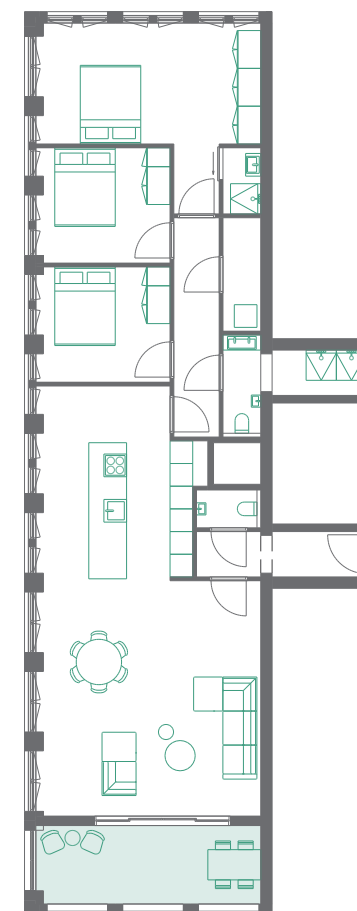


APARTMENT
3 DWELLINGS
111,7 M² INDOOR SPACE
18,3 M² OUTDOOR SPACE
1-4 BEDROOMS

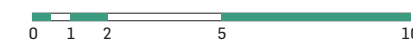


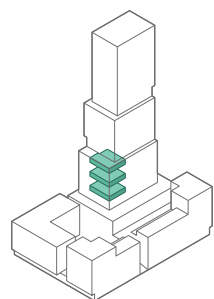


APARTMENT
2 DWELLINGS
124,4 M² INDOOR SPACE
11,8 M² OUTDOOR SPACE
2-4 BEDROOMS

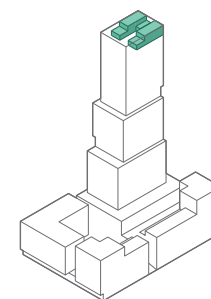
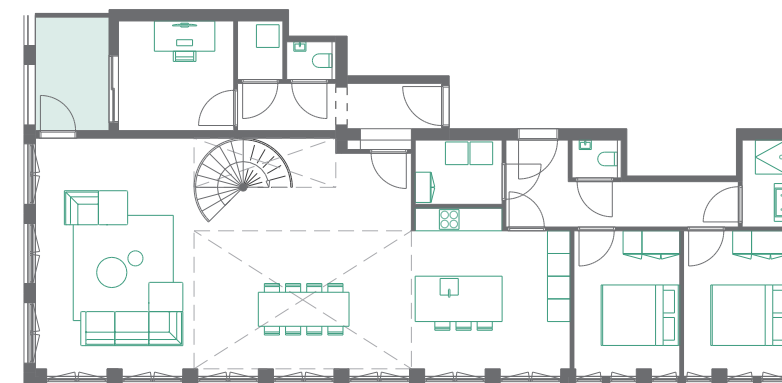
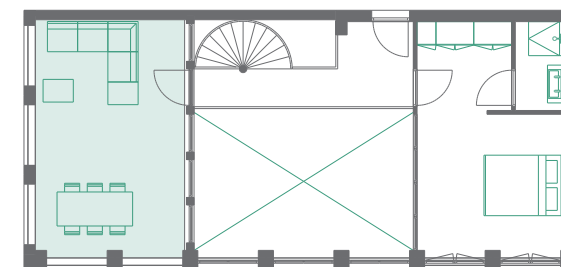


APARTMENT
3 DWELLINGS
129,4 M² INDOOR SPACE
12,3 M² OUTDOOR SPACE
1-4 BEDROOMS



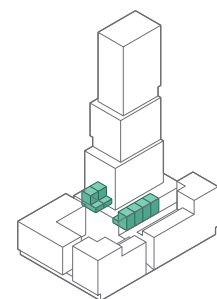
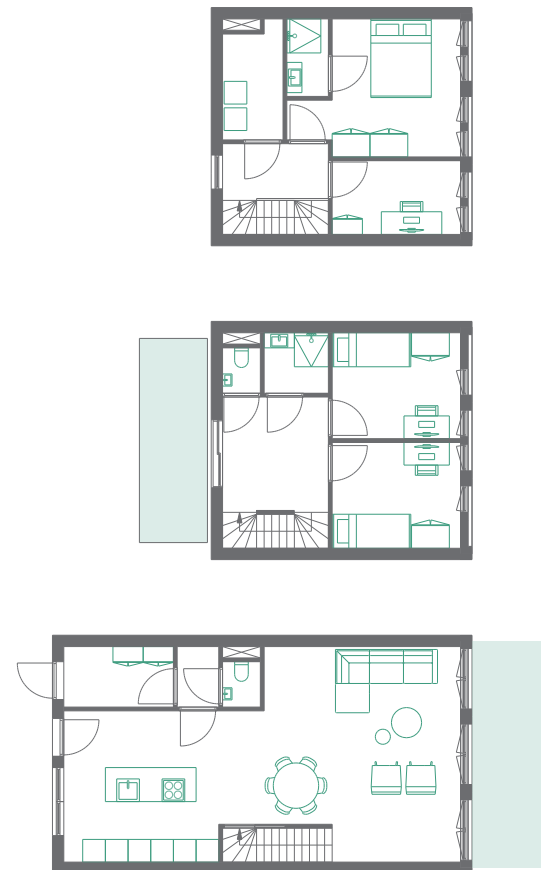


APARTMENT
3 DWELLINGS
130,4 M² INDOOR SPACE
35,7 M² OUTDOOR SPACE
1-4 BEDROOMS

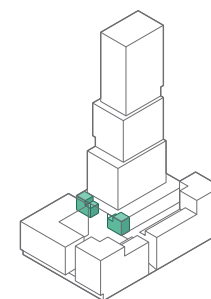
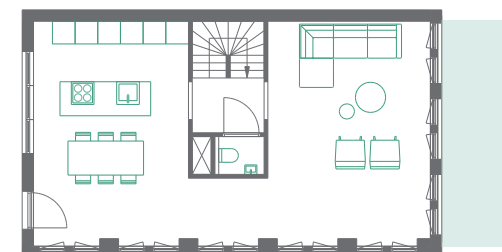
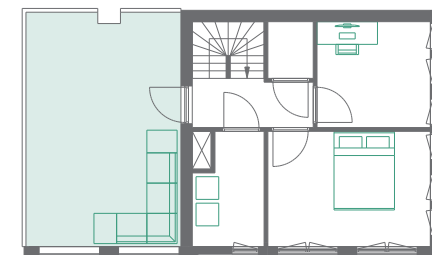


PENTHOUSE
2 DWELLINGS
179,1 M² INDOOR SPACE
30,6 M² OUTDOOR SPACE
1-4 BEDROOMS



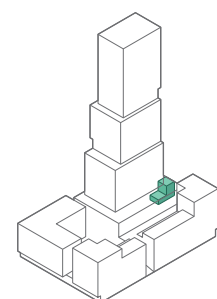


TRIPLEX
6 DWELLINGS
130,3 M² INDOOR SPACE
10-20 M² OUTDOOR SPACE
4-5 BEDROOMS

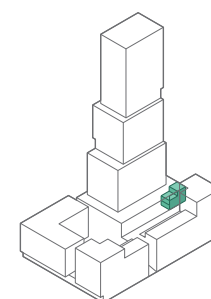
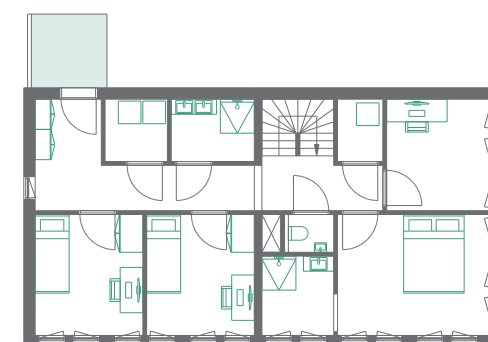
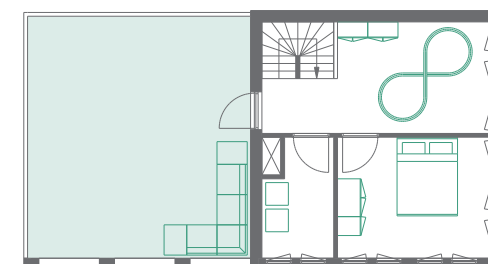


TRIPLEX
2 DWELLINGS
158,8 M² INDOOR SPACE
25-35 M² OUTDOOR SPACE
5-7 BEDROOMS

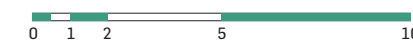


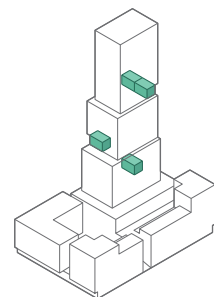
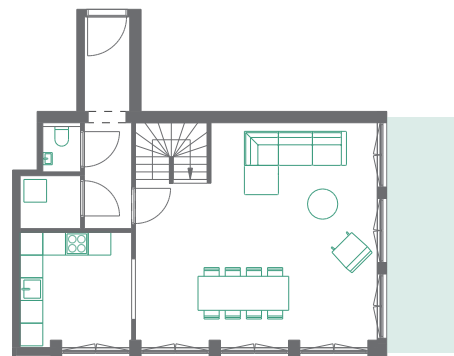
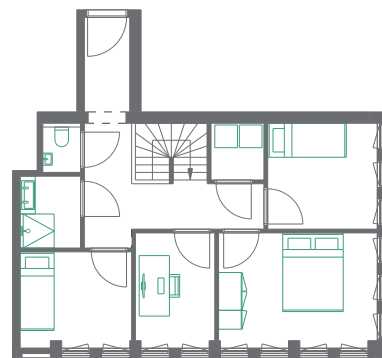


TRIPLEX
1 DWELLING
142,4 M² INDOOR SPACE
23,4 M² OUTDOOR SPACE
4-6 BEDROOMS

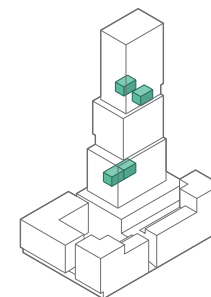
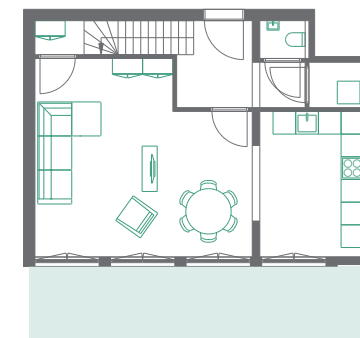


TRIPLEX
1 DWELLING
183,6 M² INDOOR SPACE
37,8 M² OUTDOOR SPACE
5-8 BEDROOMS



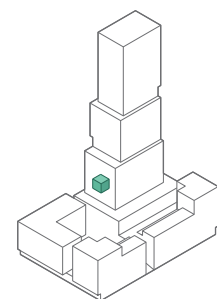


DUPLEX
4 DWELLINGS
117,4 M² INDOOR SPACE
12 M² SEMI PRIVATE OUTDOOR SPACE
3-4 BEDROOMS

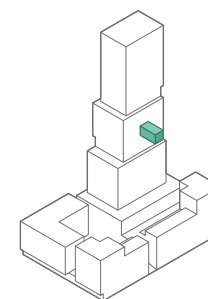


DUPLEX
4 DWELLINGS
104,3 M² INDOOR SPACE
20 M² SEMI PRIVATE OUTDOOR SPACE
3-4 BEDROOMS



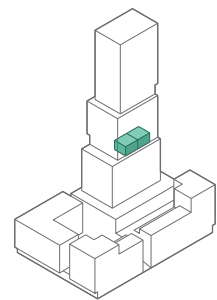
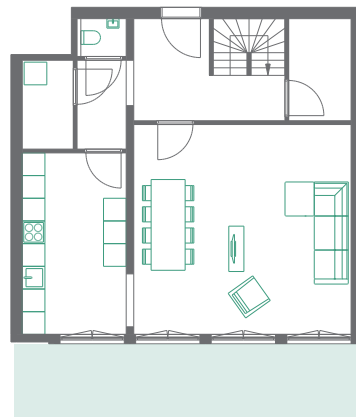
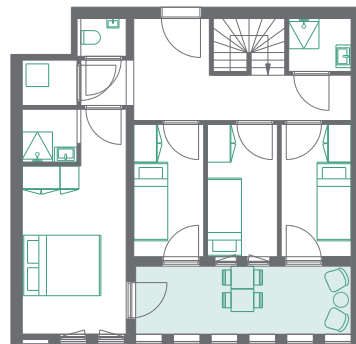


DUPLEX
1 DWELLING
90,4 M² INDOOR SPACE
12 M² SEMI PRIVATE OUTDOOR SPACE
2 BEDROOMS

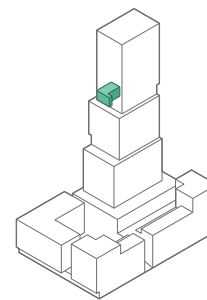
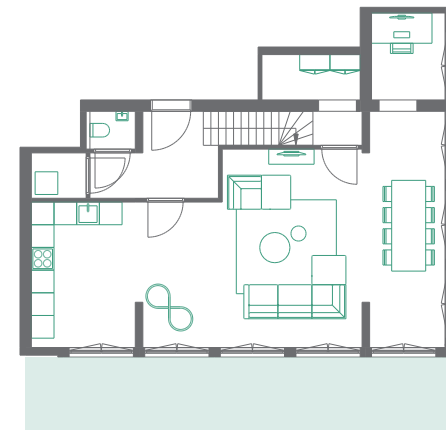
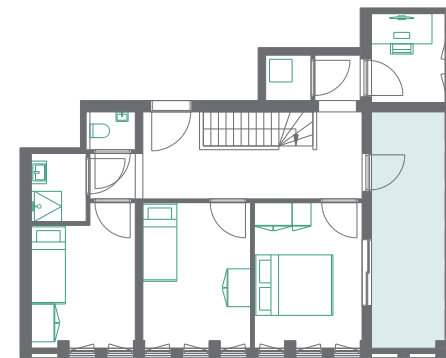


DUPLEX
1 DWELLING
141,9 M² INDOOR SPACE
12 M² SEMI PRIVATE OUTDOOR SPACE
3-6 BEDROOMS



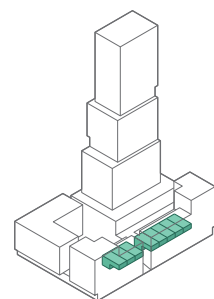


DUPLEX
2 DWELLINGS
127,7 M² INDOOR SPACE
10,3 M² OUTDOOR SPACE
20 M² SEMI PRIVATE OUTDOOR SPACE
3-4 BEDROOMS

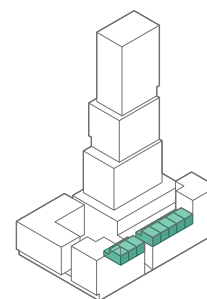


DUPLEX
1 DWELLING
130,5 M² INDOOR SPACE
12,2 M² OUTDOOR SPACE
24 M² SEMI PRIVATE OUTDOOR SPACE
3-5 BEDROOMS



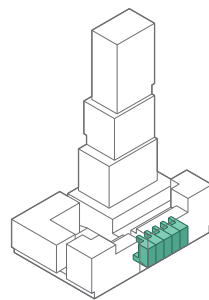
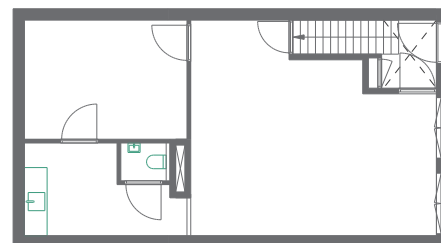
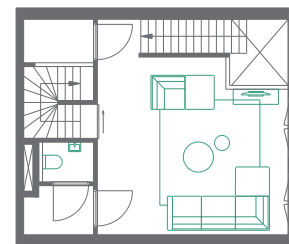
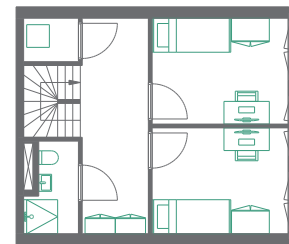
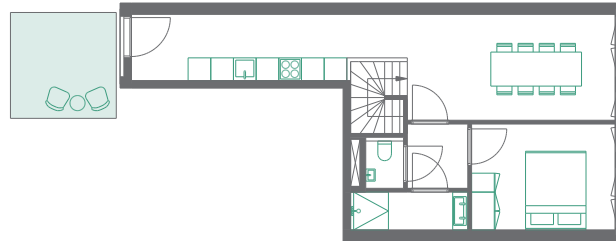


DUPLEX
8 DWELLINGS
82,6 M² INDOOR SPACE
9,1 M² OUTDOOR SPACE
3 BEDROOMS



DUPLEX
8 DWELLINGS
108,9 M² INDOOR SPACE
9,1 M² OUTDOOR SPACE
3-4 BEDROOMS





MIXED-USE

5 DWELLINGS

131,4 M² INDOOR SPACE

57,8 M² COMMERCIAL SPACE

7,9 M² OUTDOOR SPACE

3-4 BEDROOMS



