

OMMOORD, LIVING TOGETHER

MSc3 studio Heritage & Architecture



RE-HOUSING - Luxury Energy and Economy

SIMONE SCHADE

STUDIO

INTRO

RE-HOUSING HERITAGE & ARCHITECTURE

2

SIMONE SCHADE

STUDIO

INTRO



STUDIO

INTRO



STUDIO

INTRO



5





OMMOORD

ERA - SYSTEM (VAN EESTEREN RATIONELE AANPAK)



OVERVECHT
VAM





NIEUW WEST
NEMAVO-AIREY



OMMOORD

ERA - SYSTEM (VAN EESTEREN RATIONELE AANPAK)

INTRO



Architect R.H. Fledderis



ERA



Lotte Stam-Beese

A high-contrast, black and white aerial photograph of Rotterdam, Netherlands. The Scheldt river (Scheldt) flows through the center of the image, winding from the top left towards the bottom right. The river is flanked by dense urban development, including residential areas with small, uniform houses and larger industrial or commercial zones. The surrounding landscape is a patchwork of fields and urban sprawl. The overall tone is somber and historical, with a focus on the city's relationship with water.

INTRO

ROTTERDAM

An aerial photograph of the Rotterdam region in the Netherlands. The image shows a dense urban landscape with a complex network of canals and streets. The city of Rotterdam is visible in the lower half, with its characteristic canal system. The Ommoord district is highlighted in the upper right quadrant by a white rectangular box. The text 'INTRO' is centered at the top, 'ROTTERDAM' is centered at the bottom, and 'OMMOORD' is positioned to the right of the highlighted area.

INTRO

OMMOORD

ROTTERDAM

INTRO



ANALYSIS

ANALYSIS

HISTORY OF HOUSING
OF PEOPLE

ANALYSIS

ANALYSIS



ANALYSIS

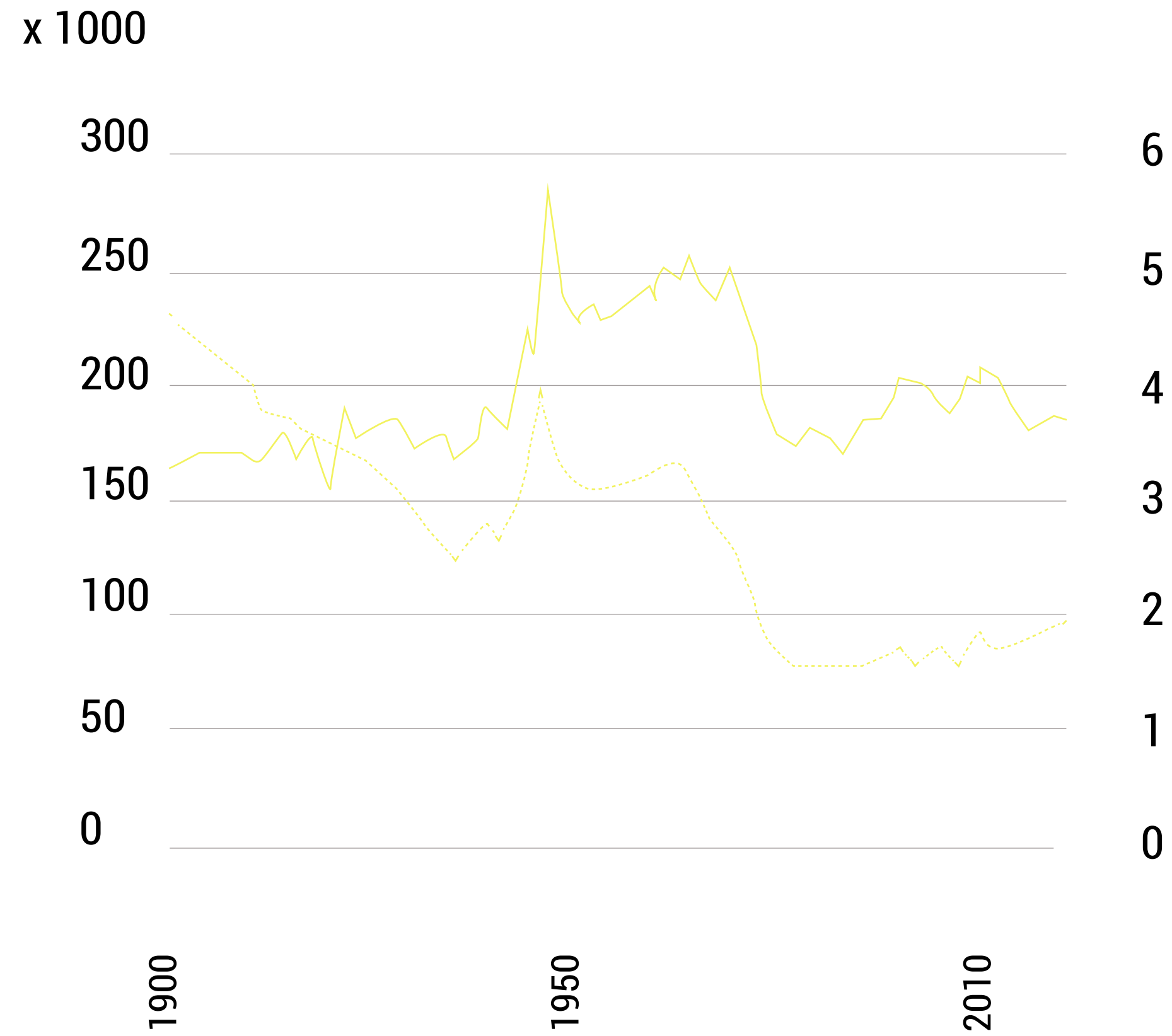
ANALYSIS



HOUSING SHORTAGE

BIRTH WAVE

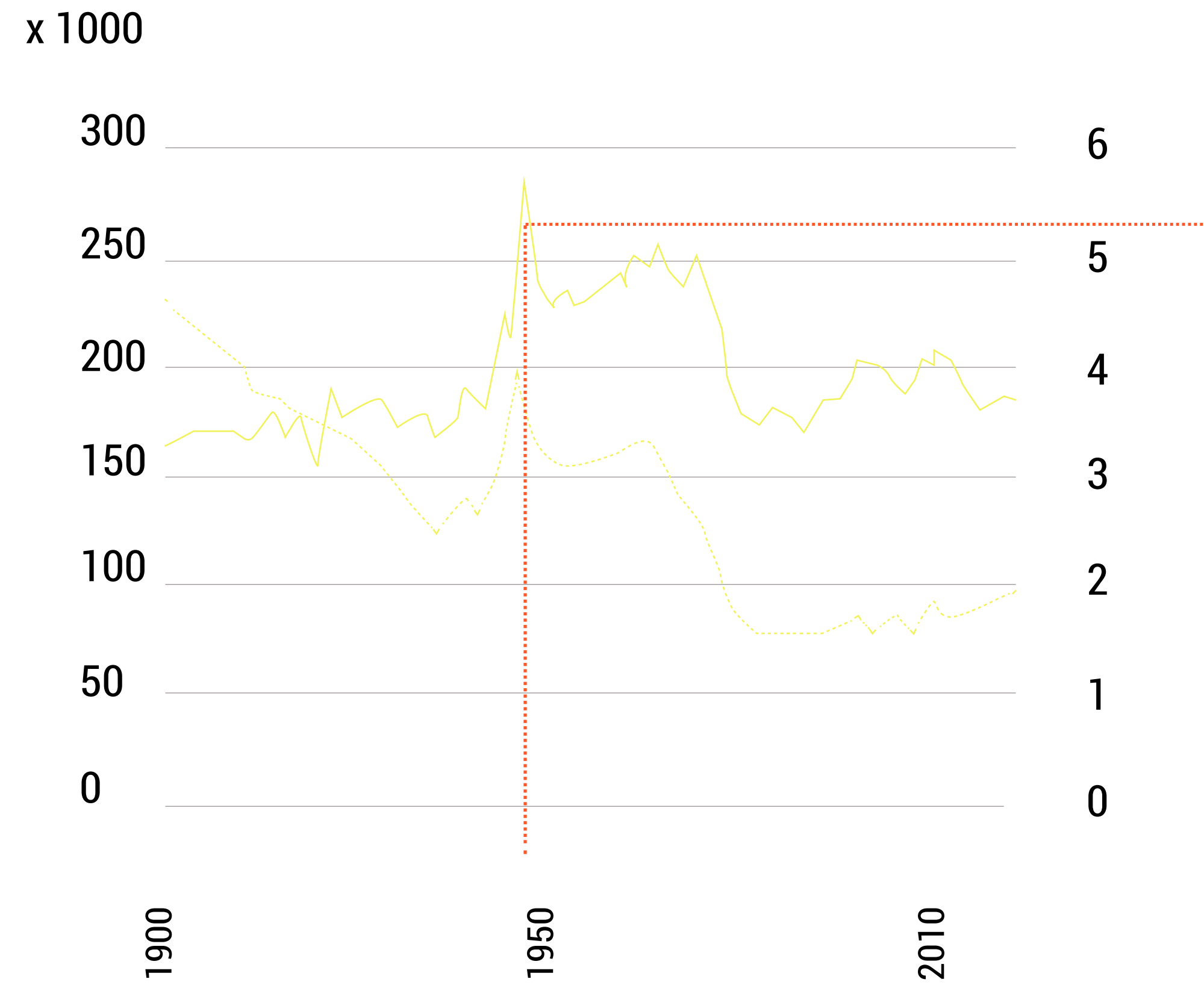
ANALYSIS



CBS, 2017

BIRTH WAVE

ANALYSIS



CBS, 2017



ERA

Eesteren Rationele Aanpak

Steel tunnels

Poured concrete

Prefabricated elements



ERA

Eesteren Rationele Aanpak

Steel tunnels

Poured concrete

Prefabricated elements



ERA

Eesteren Rationele Aanpak

Steel tunnels

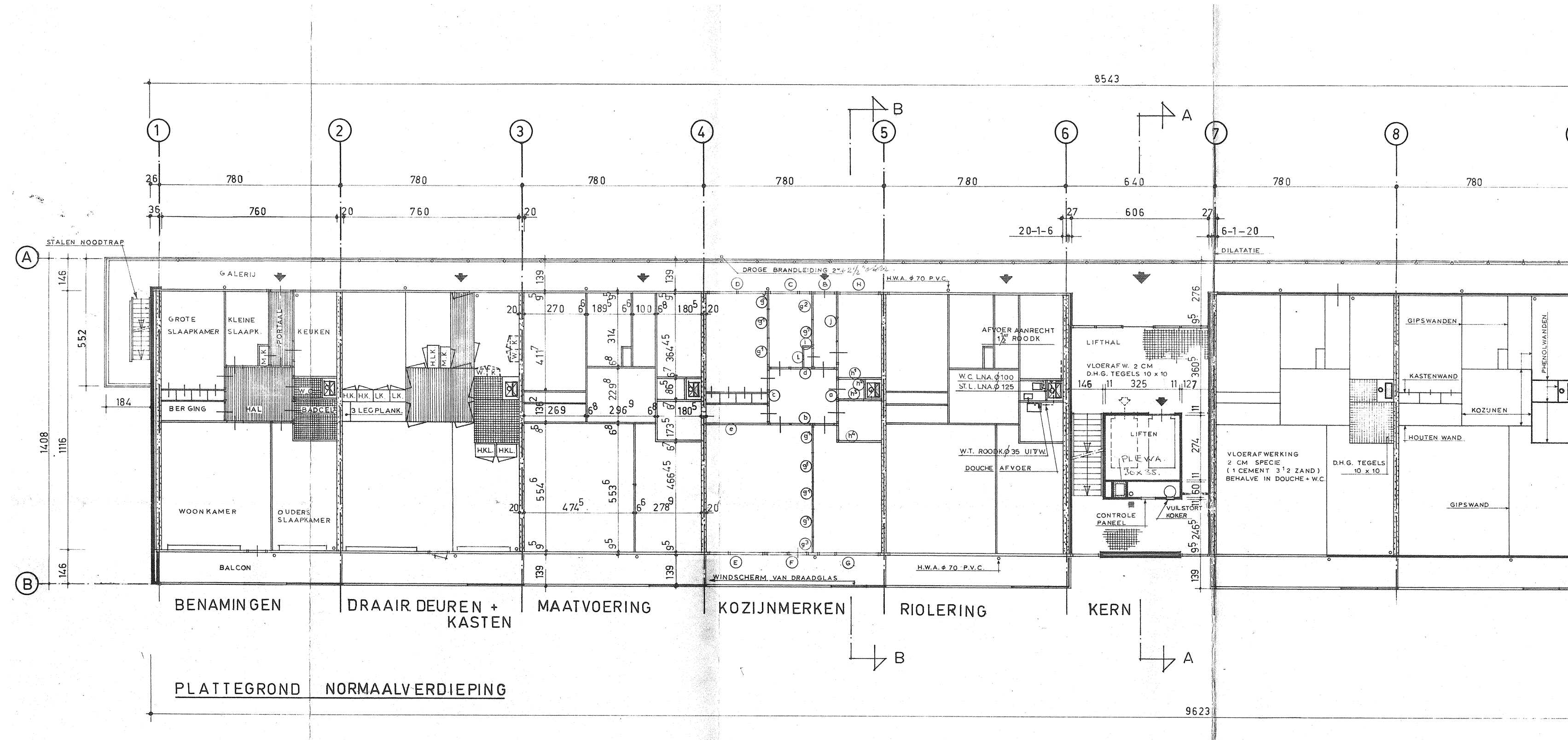
Poured concrete

Prefabricated elements

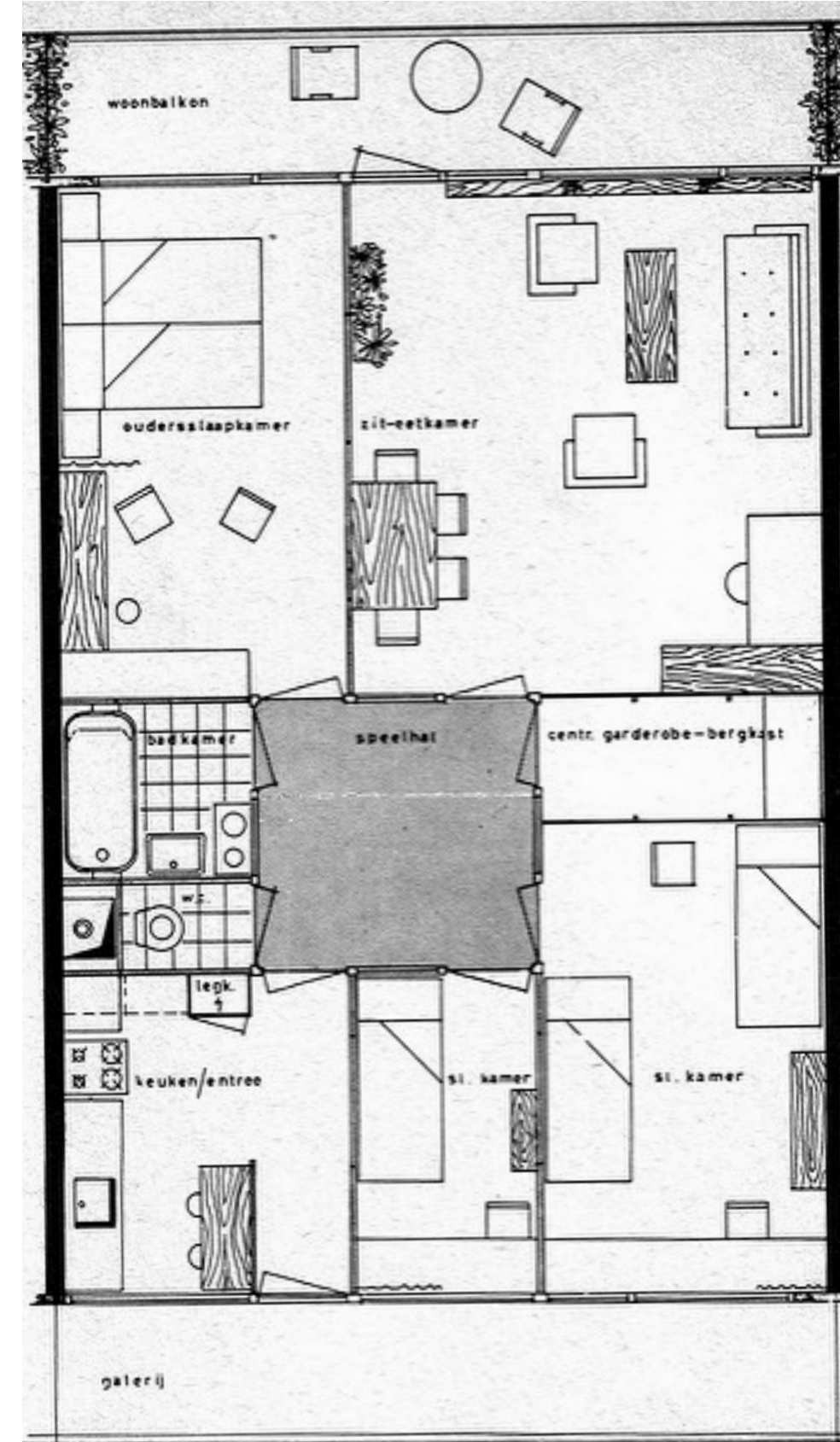


ERA

ANALYSIS



ERA



FLEXIBILITY IN FLOORPLAN

HABRAKEN: SUPPORT & INFILL

HISTORY OF OMMOORD

1960



ANALYSIS

HEALTH

URBAN PLANNING/
ARCHITECTURE

ANALYSIS

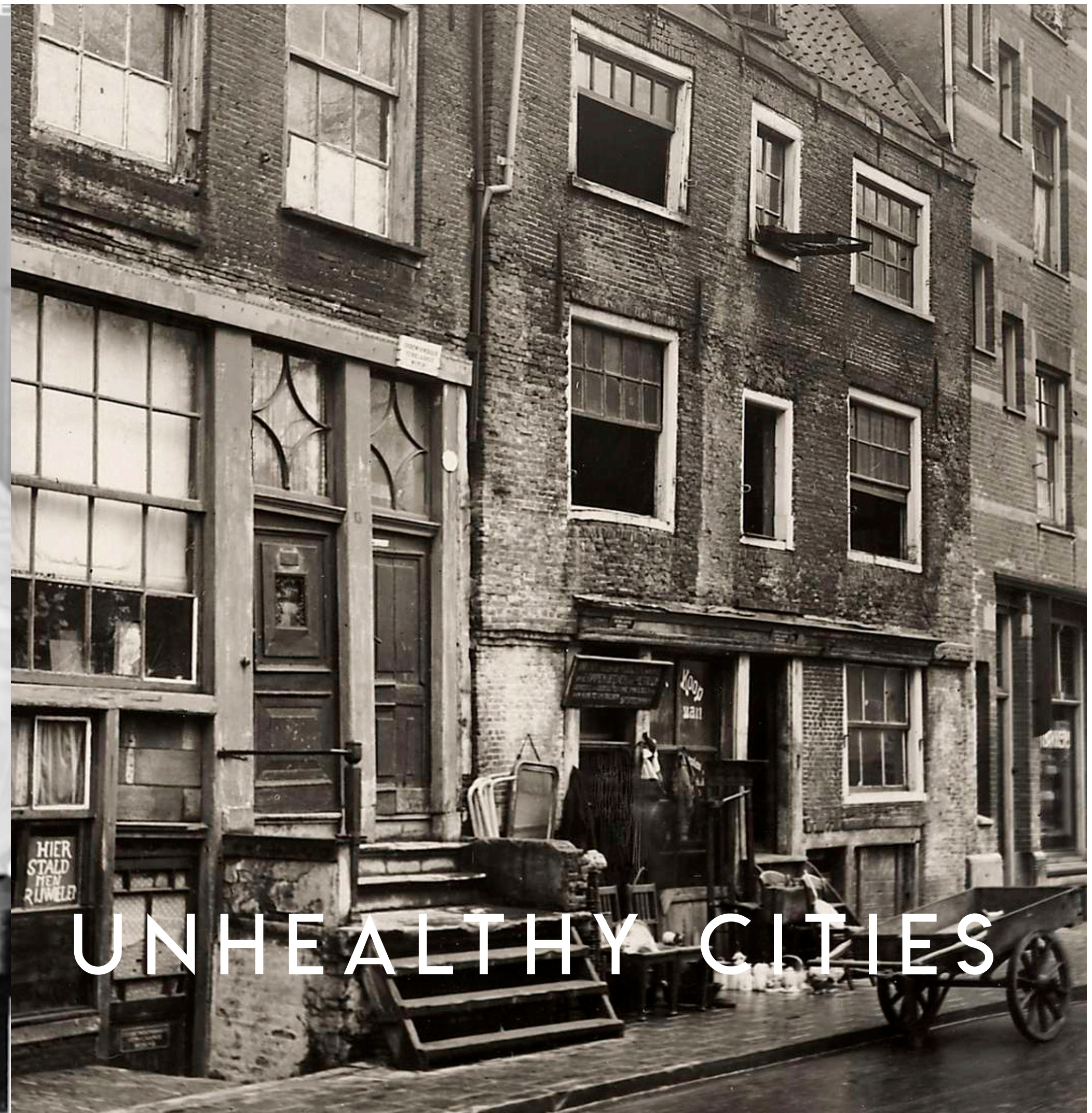
ANALYSIS



HEALTHY CITIES

ANALYSIS

ANALYSIS



LOTTE STAM BEESE

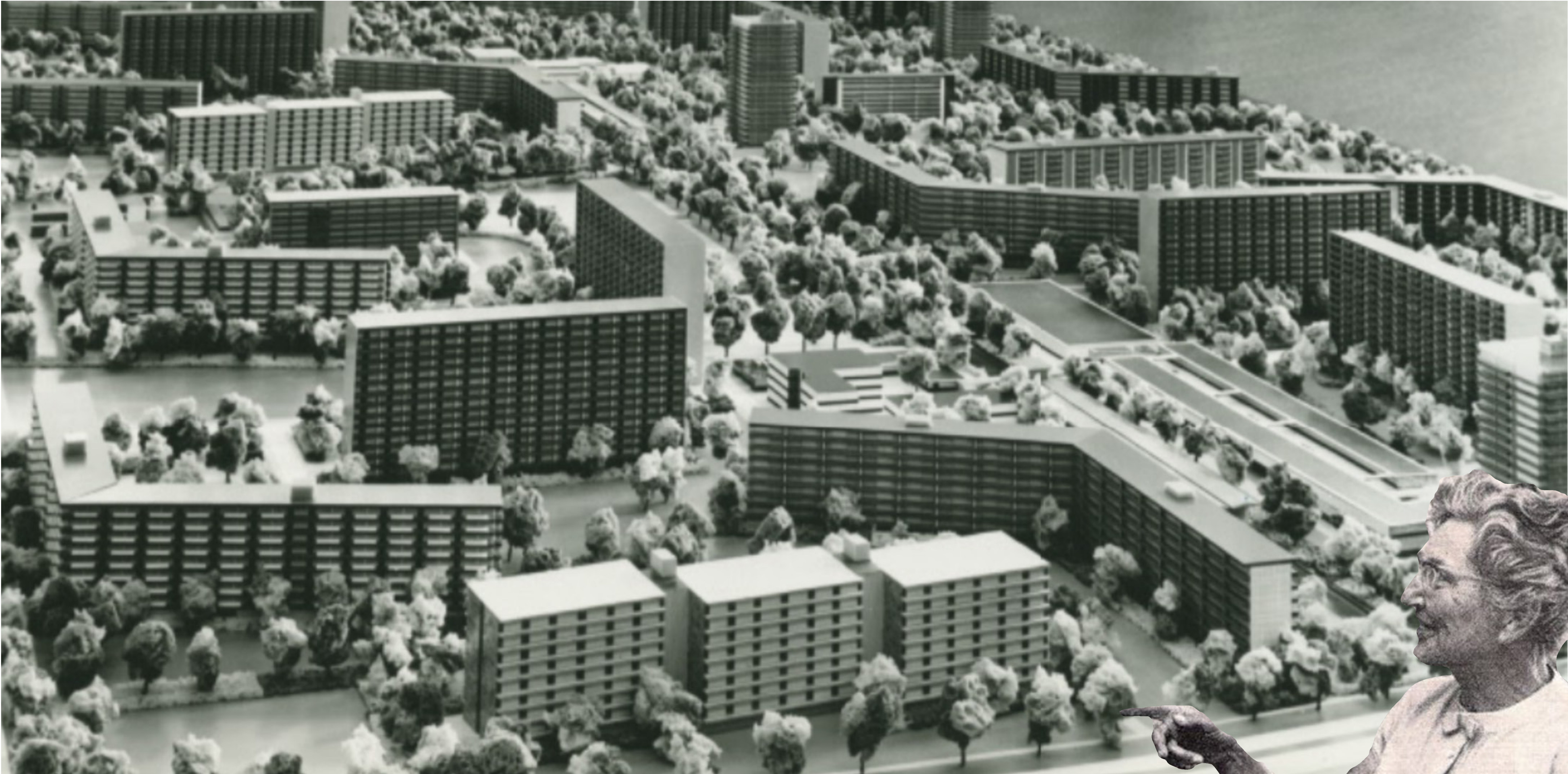
ANALYSIS



model Ommoord

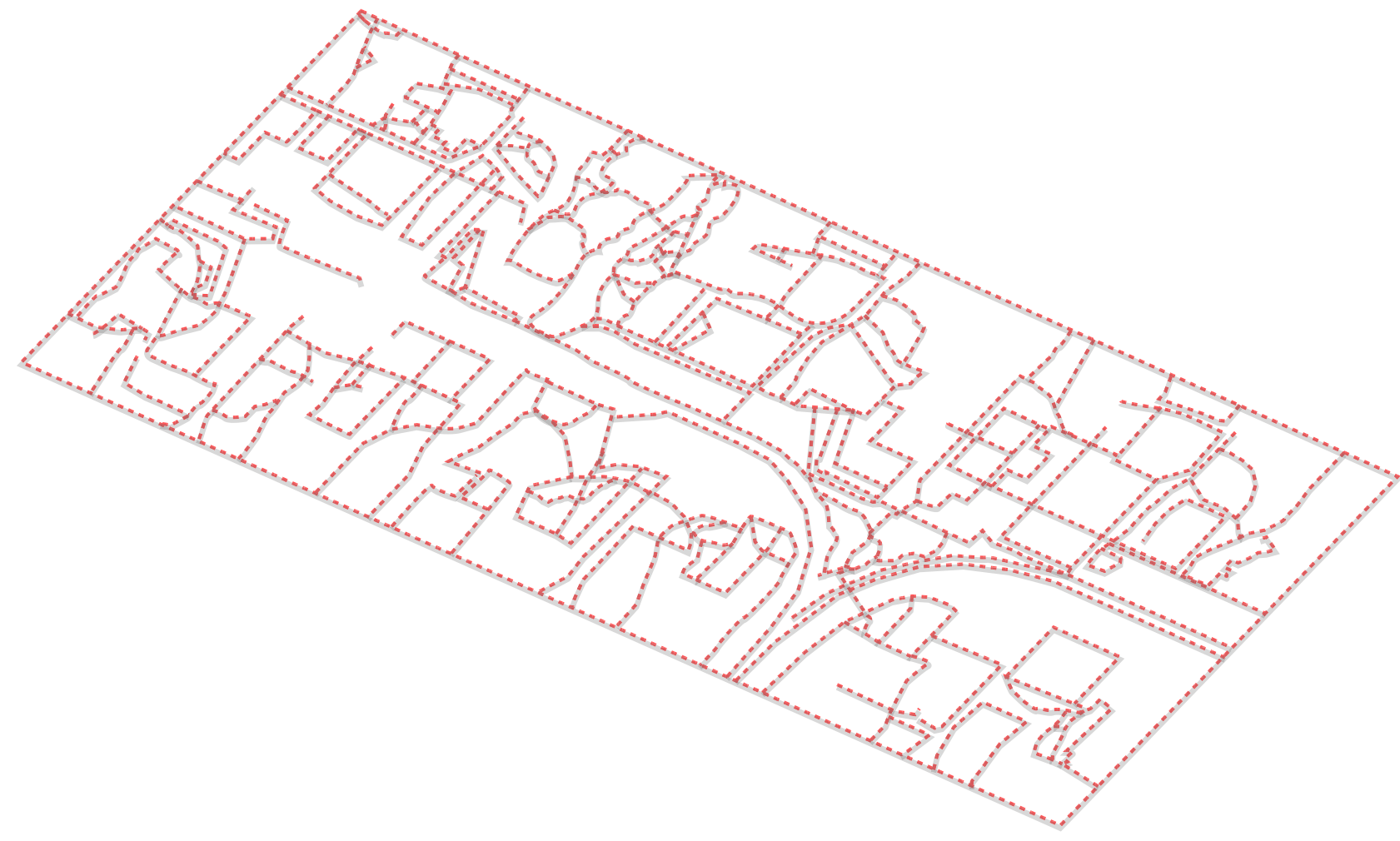
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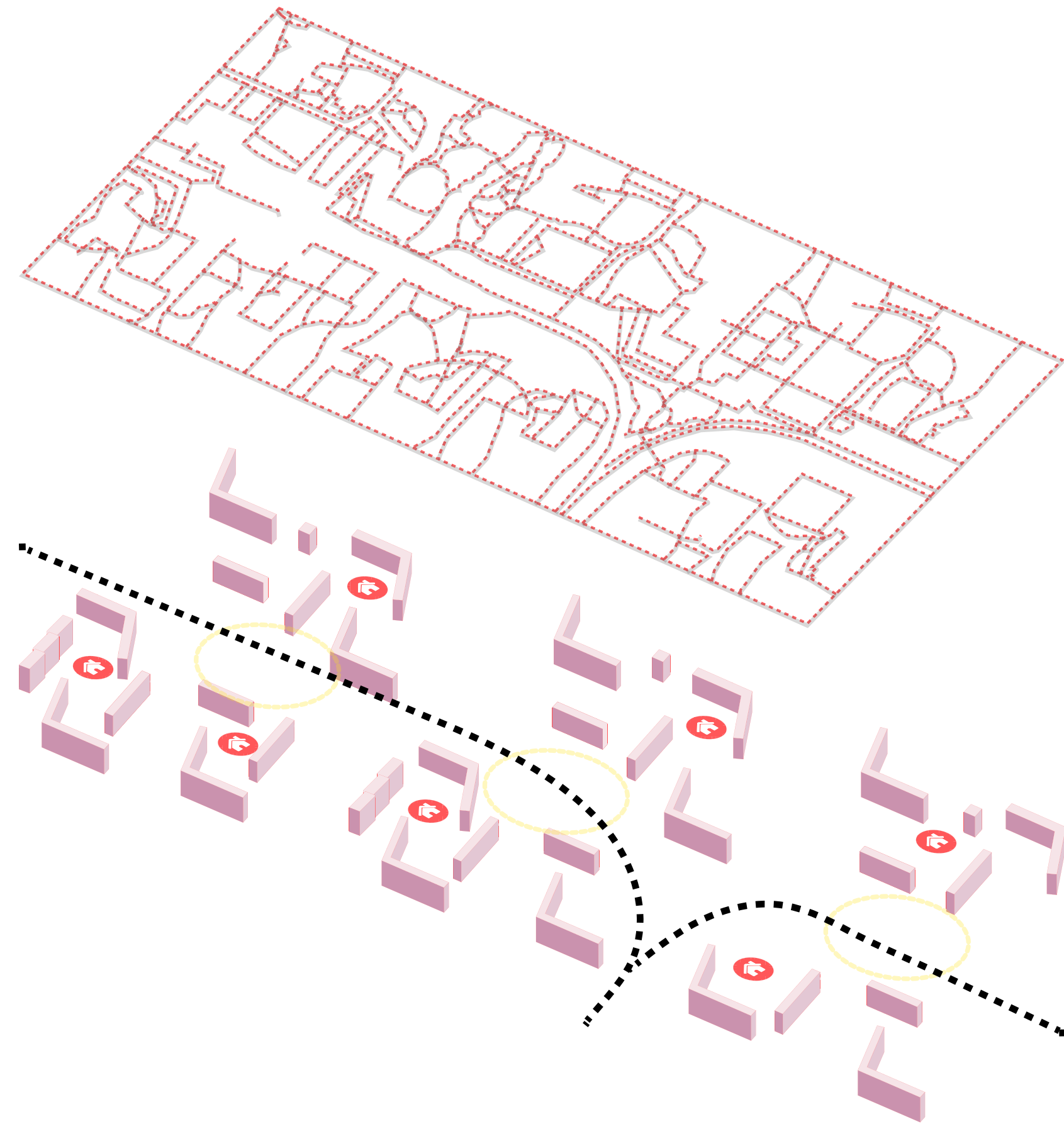
ANALYSIS



model Ommoord









SOCIAL IDEOLOGY

Homogeneous society

Big families

Maakbare samenleving

Welvaartsstaat

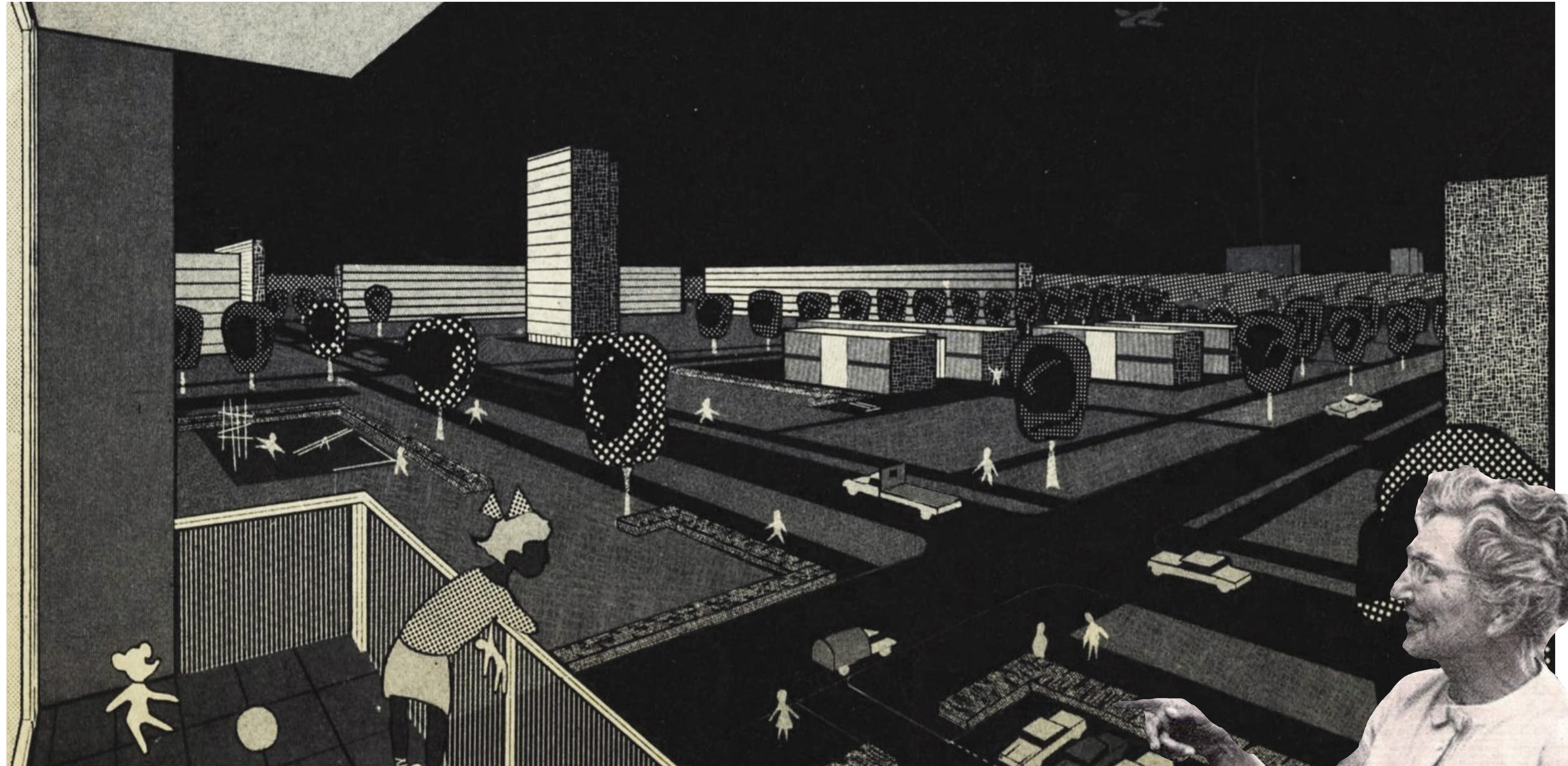
Central rol of the church and 'verenigingsleven'

ANALYSIS



LOTTE STAM BEESE

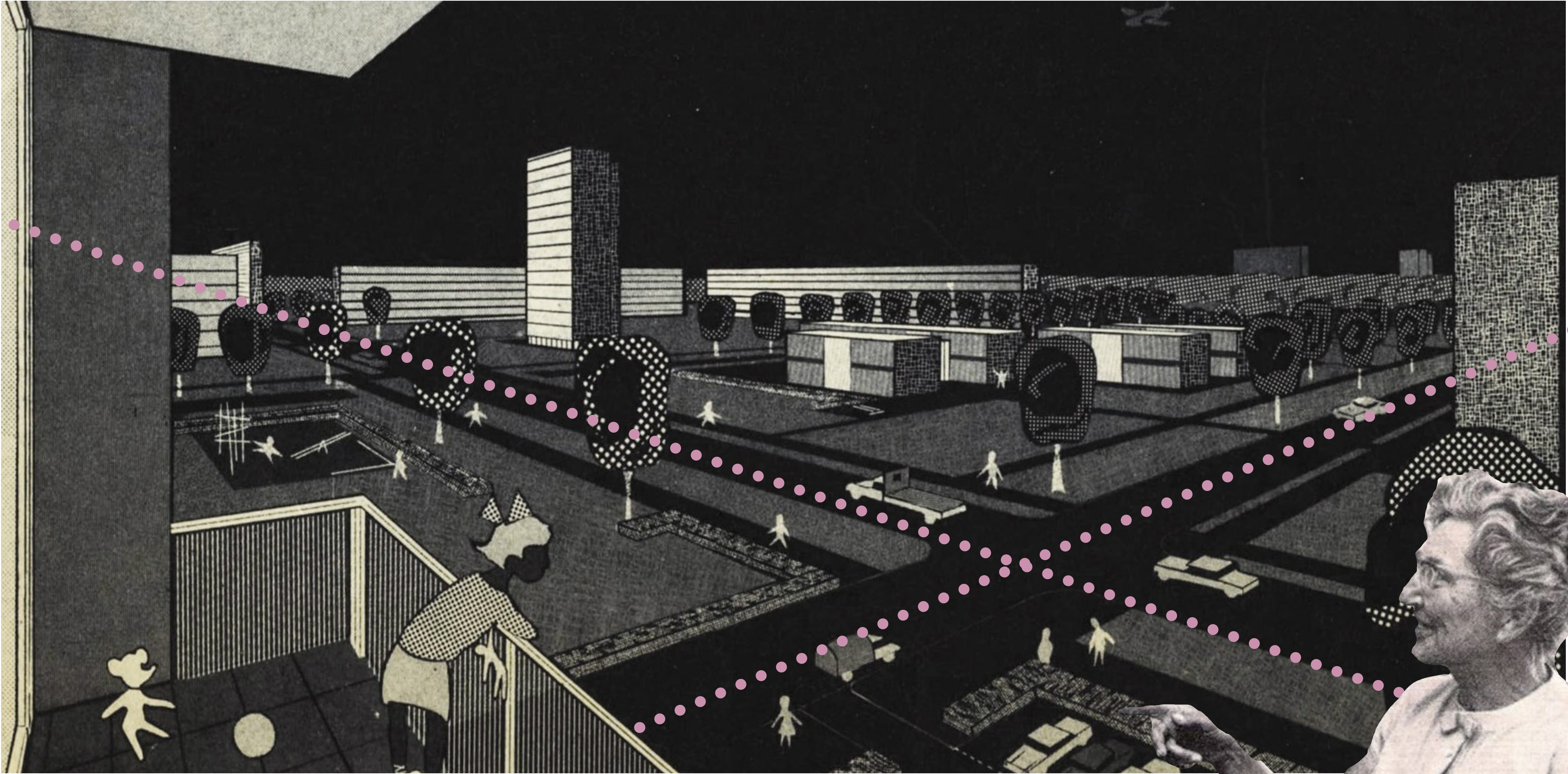
ANALYSIS



drawing by Lotte Stam-Beese

LOTTE STAM BEESE

ANALYSIS



drawing by Lotte stam-beese

LOTTE STAM BEESE

ANALYSIS



drawing by Lotte stam-beese

LOTTE STAM BEESE

ANALYSIS

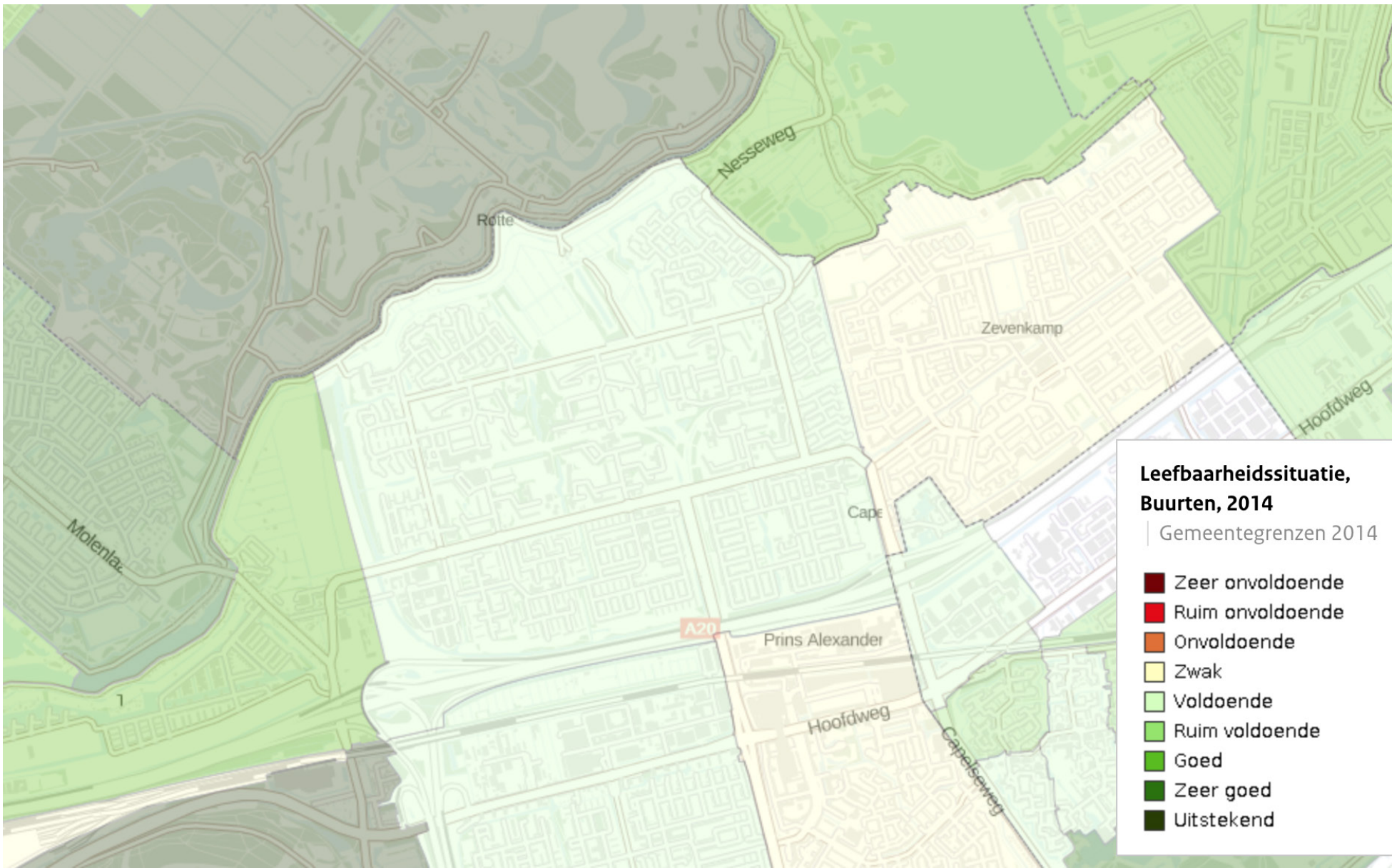


drawing by Lotte stam-beese



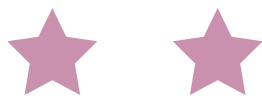
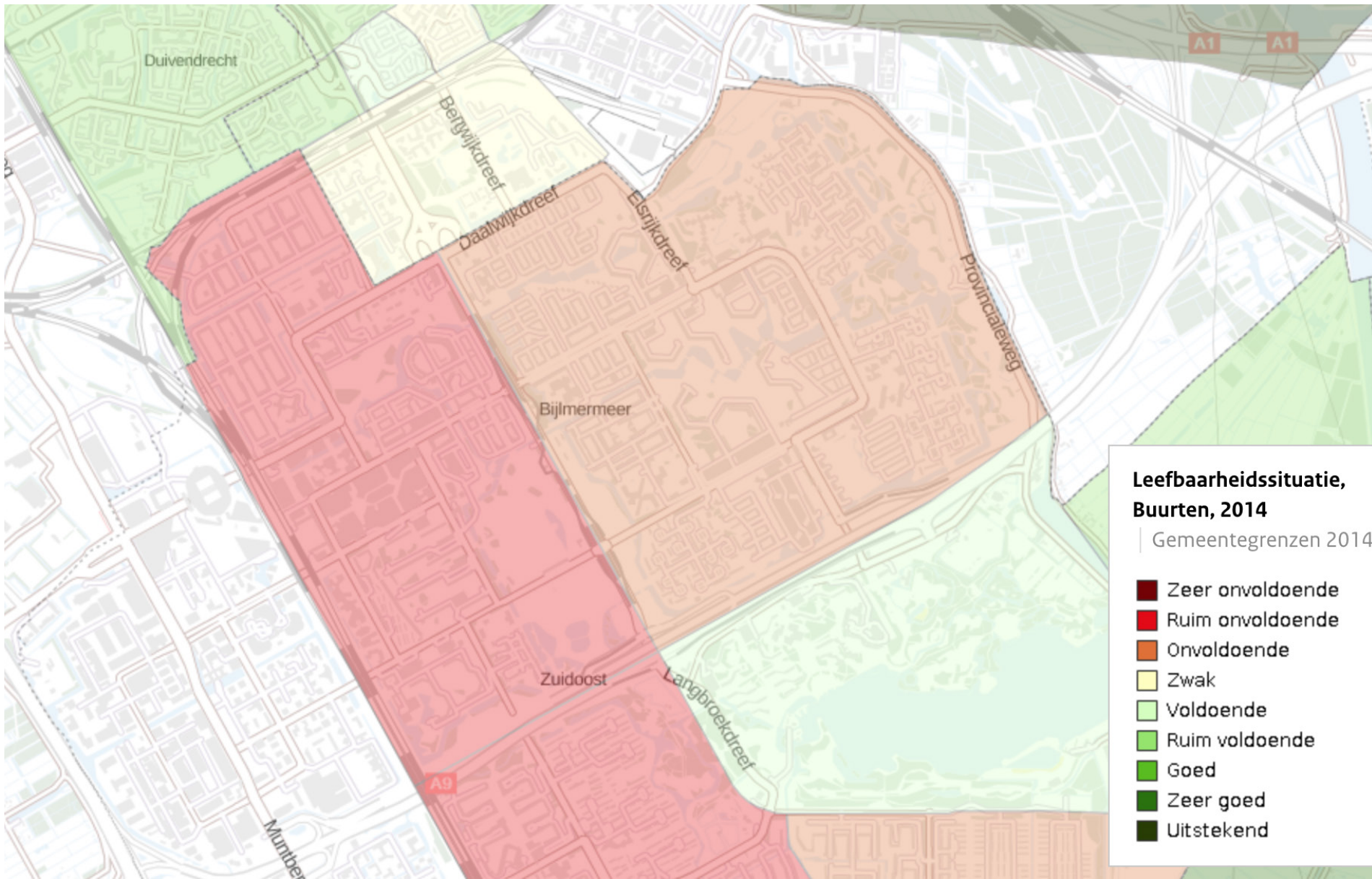
LEEFBAARHEID

OMMOORD



<https://www.leefbaarometer.nl>

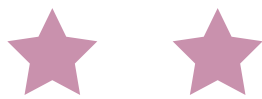
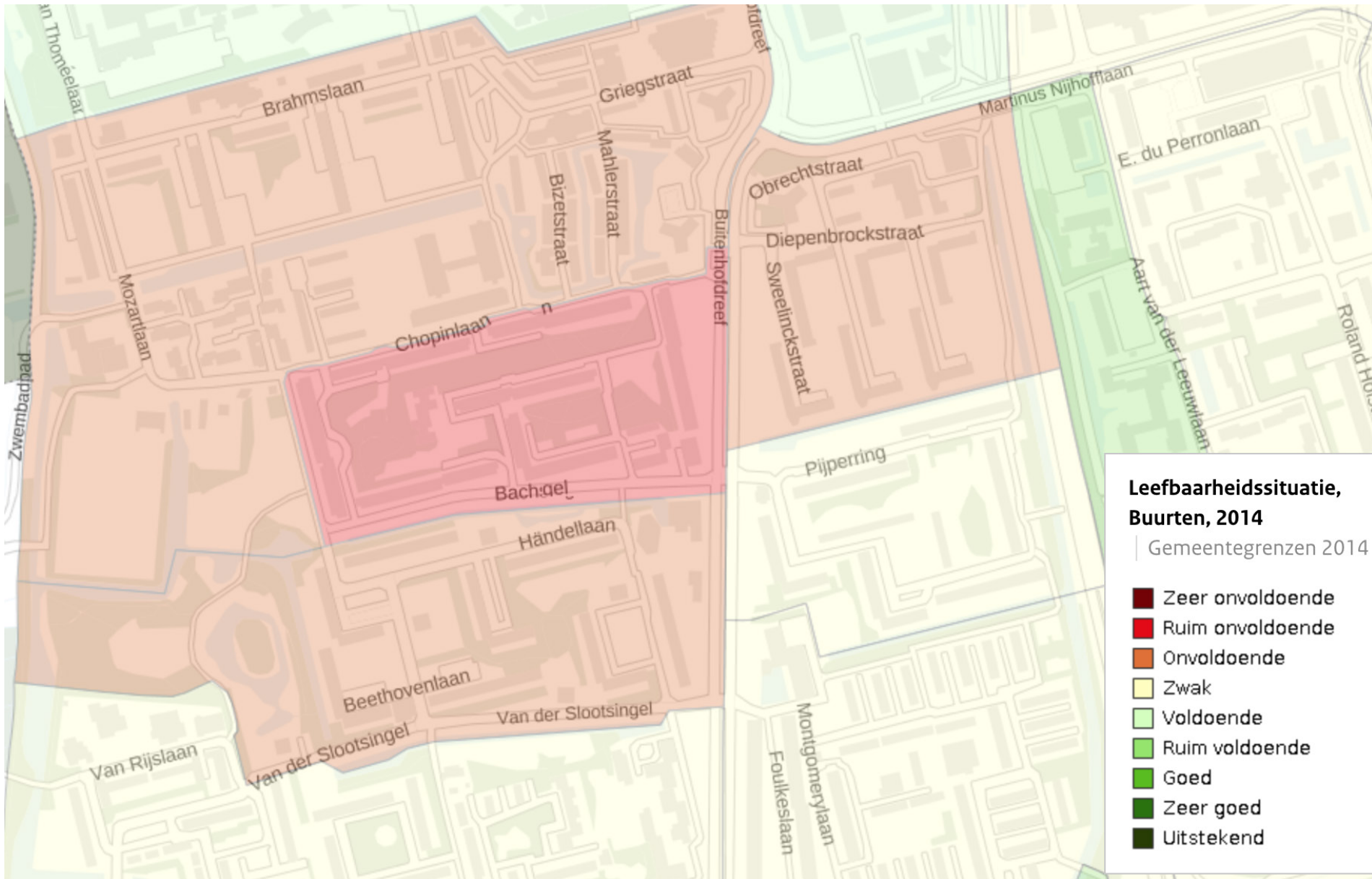
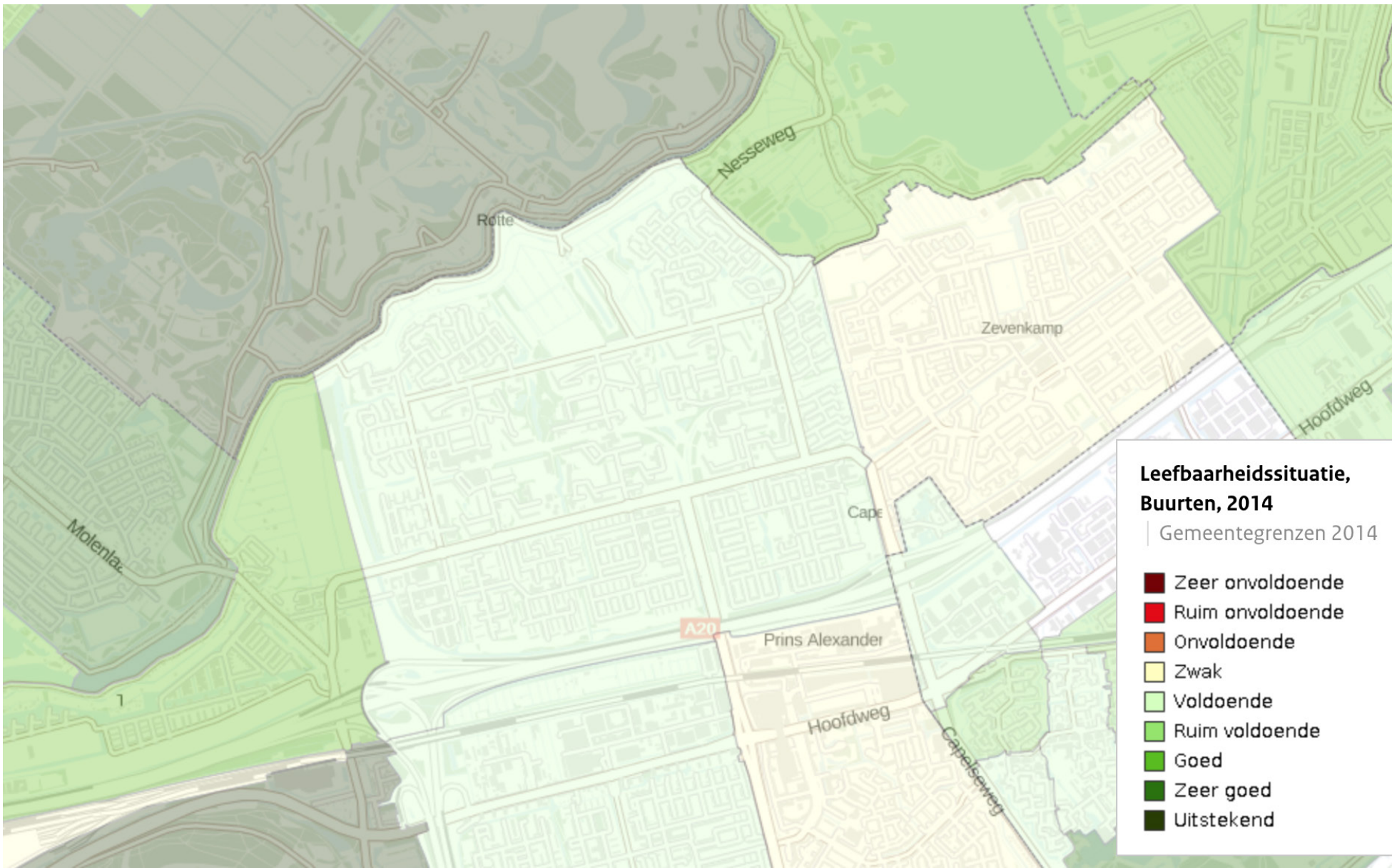
BIJLMERMEER



LEEFBAARHEID

OMMOORD

BUITENHOF



“ “

‘DIE VAN DERMATE
CULTUURHISTORISCH BELANG
ZIJN DAT WE ER OP BIJZONDER
ZORGVULDIGE WIJZE MEE OM
WILLEN GAAN’

ANALYSIS

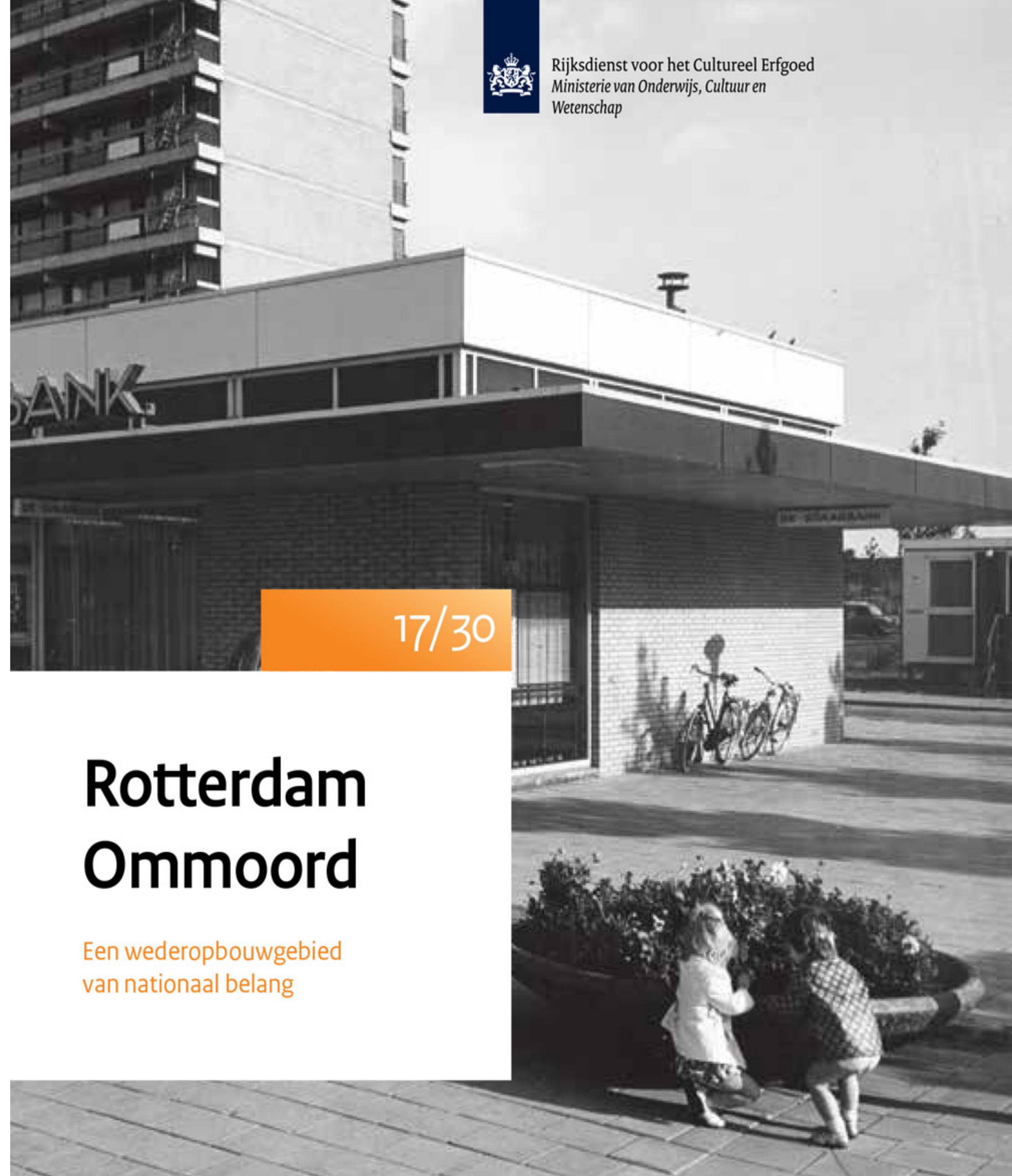


Rijksdienst voor het Cultureel Erfgoed
Ministerie van Onderwijs, Cultuur en
Wetenschap

17/30

Rotterdam Ommoord

Een wederopbouwgebied
van nationaal belang



NOW

CURRENT ISSUES



CURRENT ISSUES

MINIMUM INSULATION

COLD BRIDGES

HIGH INFILTRATION RATE

ANNONIMITY

TRESHHOLDS

NO SOCIAL CONTROL



ANALYSIS

WHAT HAS CHANGED?

SOCIAL IDEOLOGY 1960

Big families

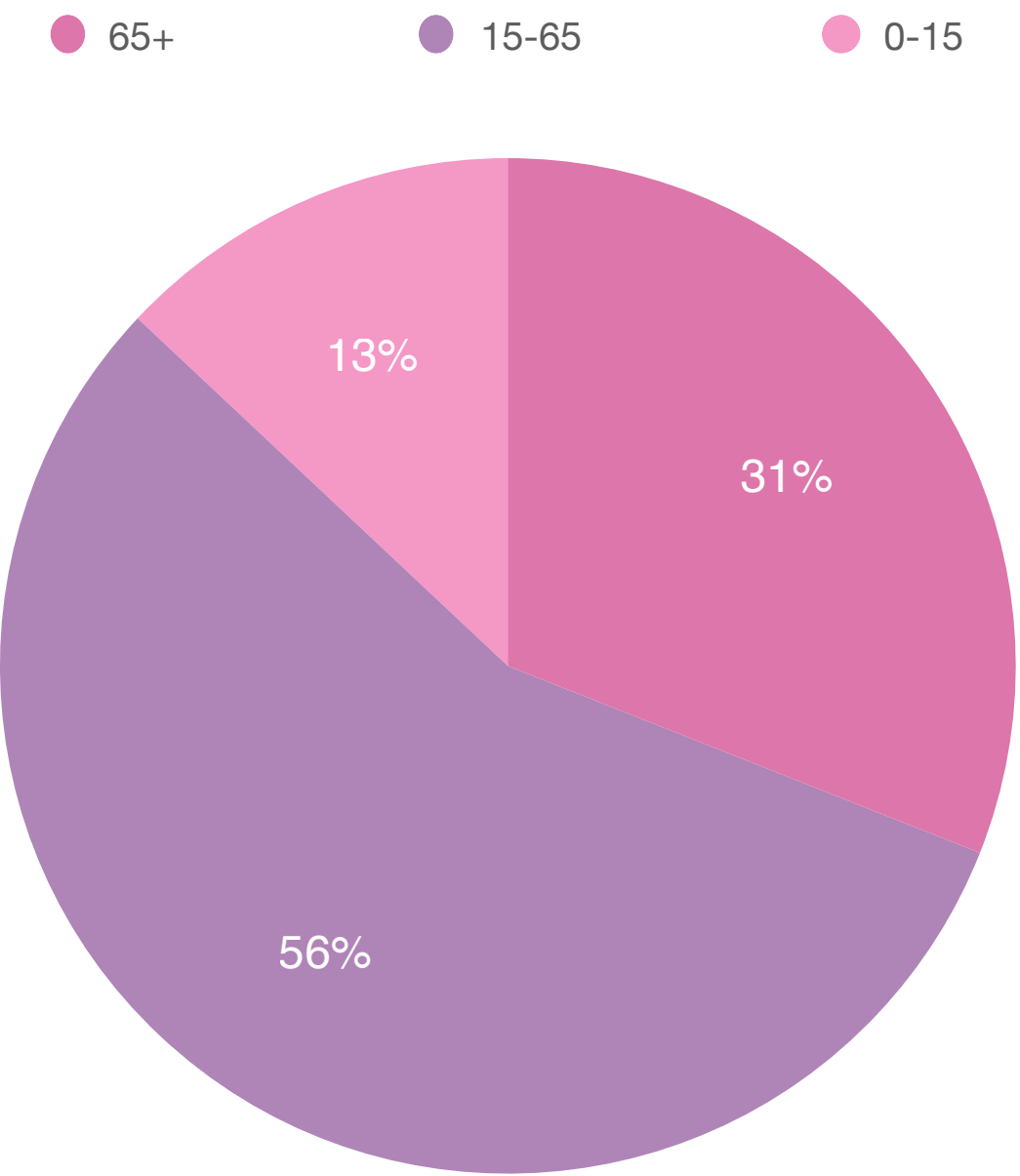




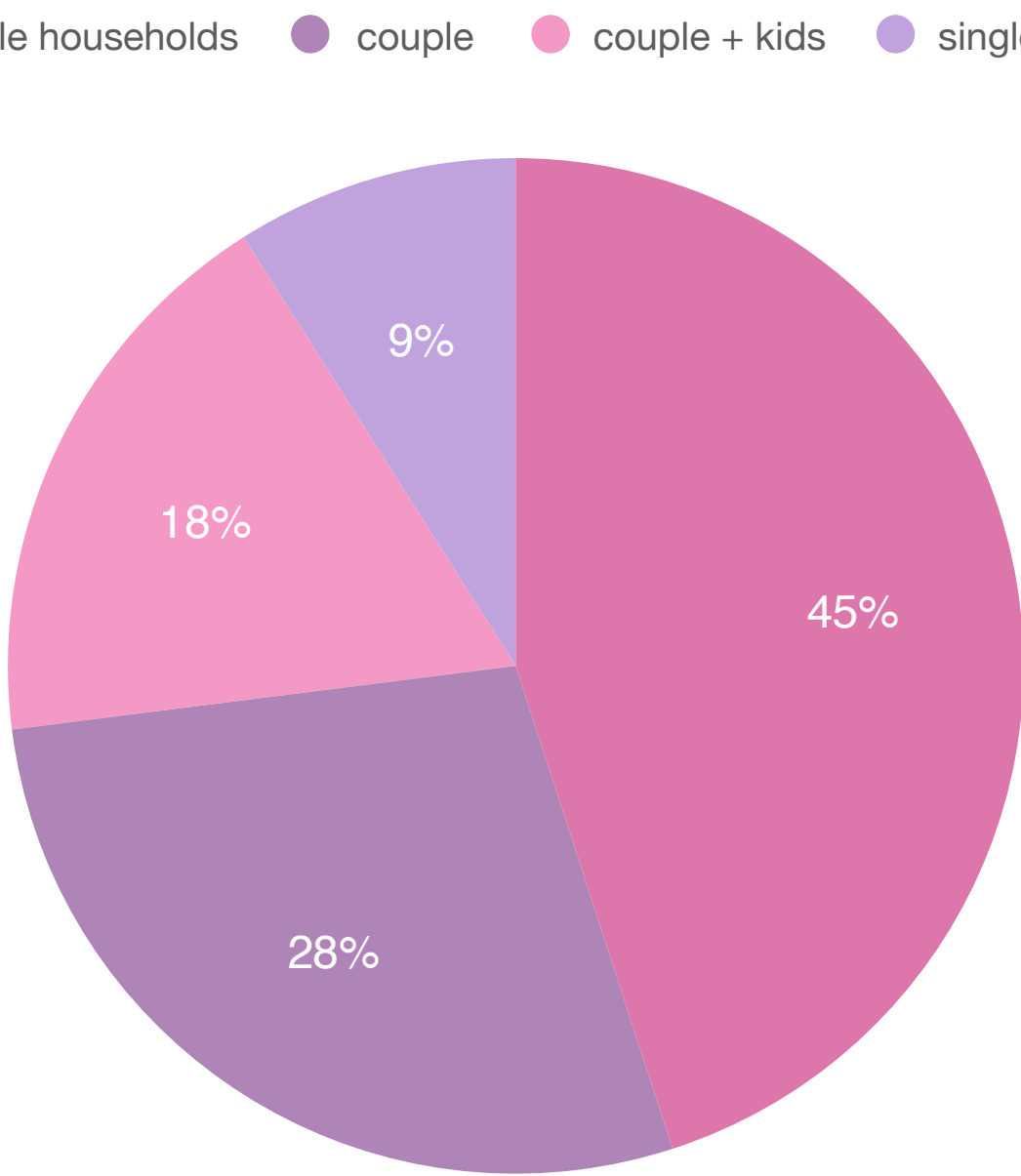
2017

45% single households

ANALYSIS



MOSTLY ELDERLY



MOSTLY SINGLE HOUSEHOLDS

CBS,2017

SOCIAL IDEOLOGY 1960

Big families

Birth wave



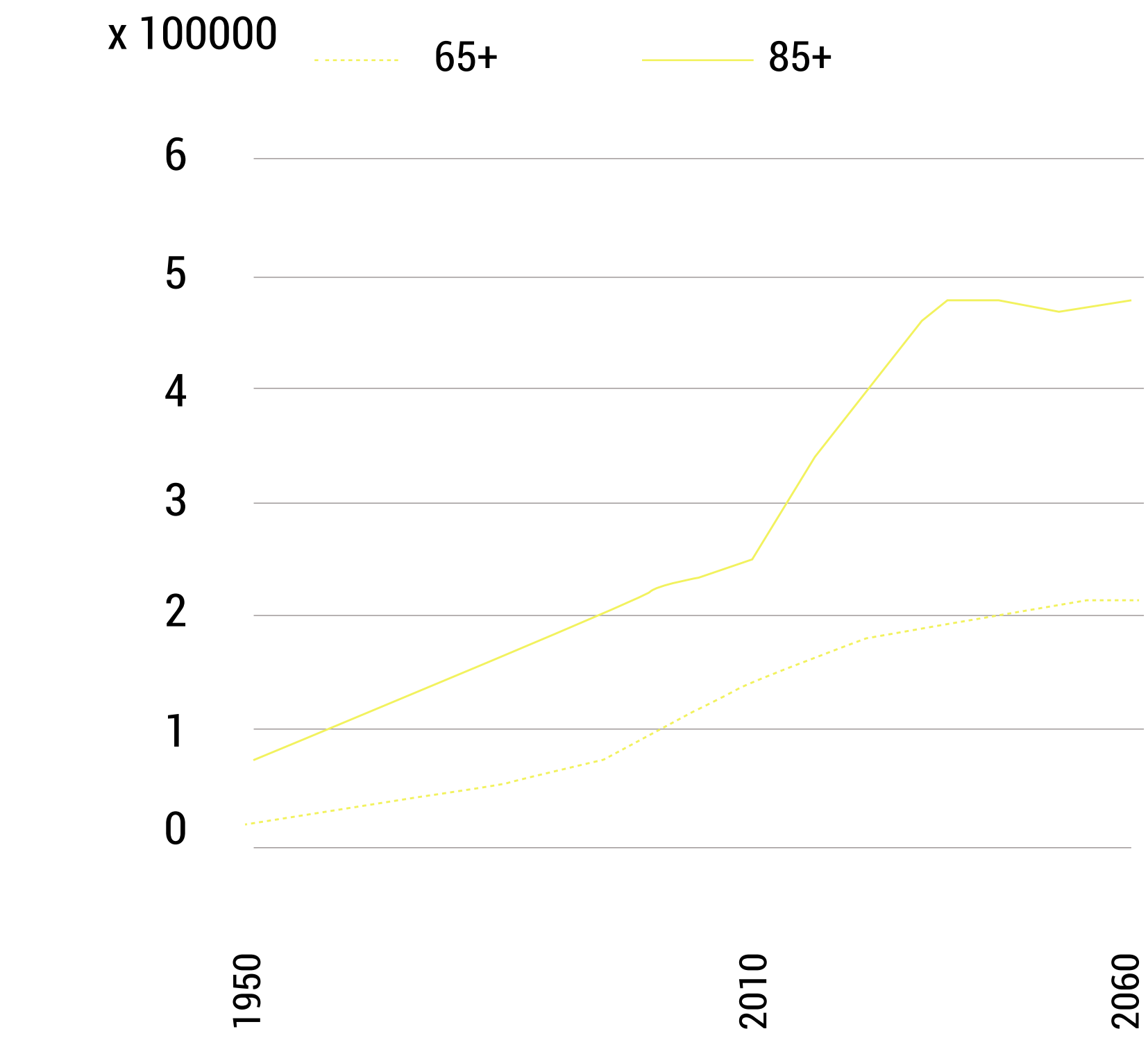


2017

40% single households

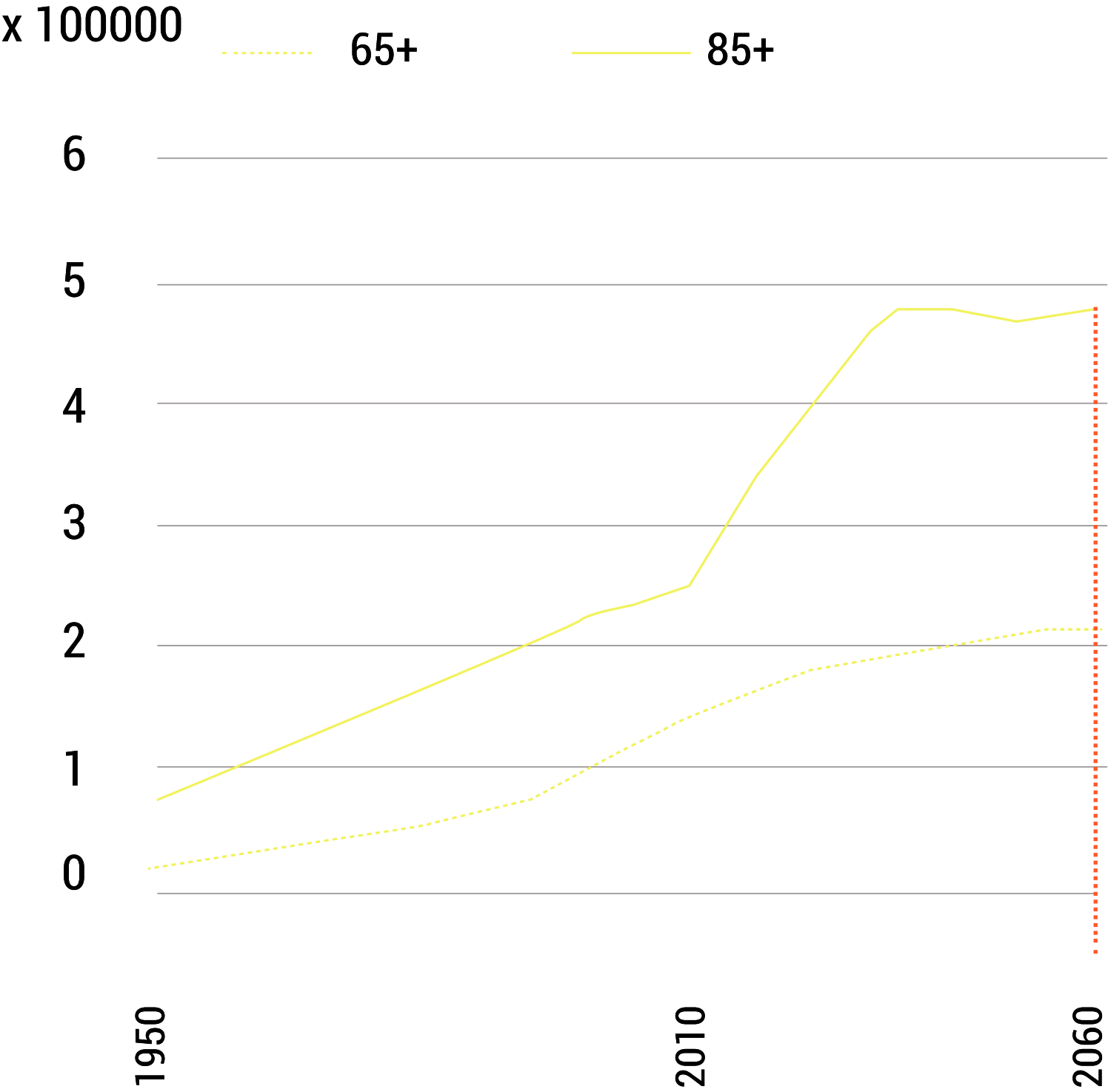
An aging society

ANALYSIS



CBS, 2017

ANALYSIS



2040

4,7 MILLION

26% of the population

SOCIAL IDEOLOGY 1960

Big families

Birth wave

Central role of church and community life

ANALYSIS





2017

40% single households

An aging society

Social segragation, Individualization, loneliness

SOCIAL IDEOLOGY 1960

Big families

Birth wave

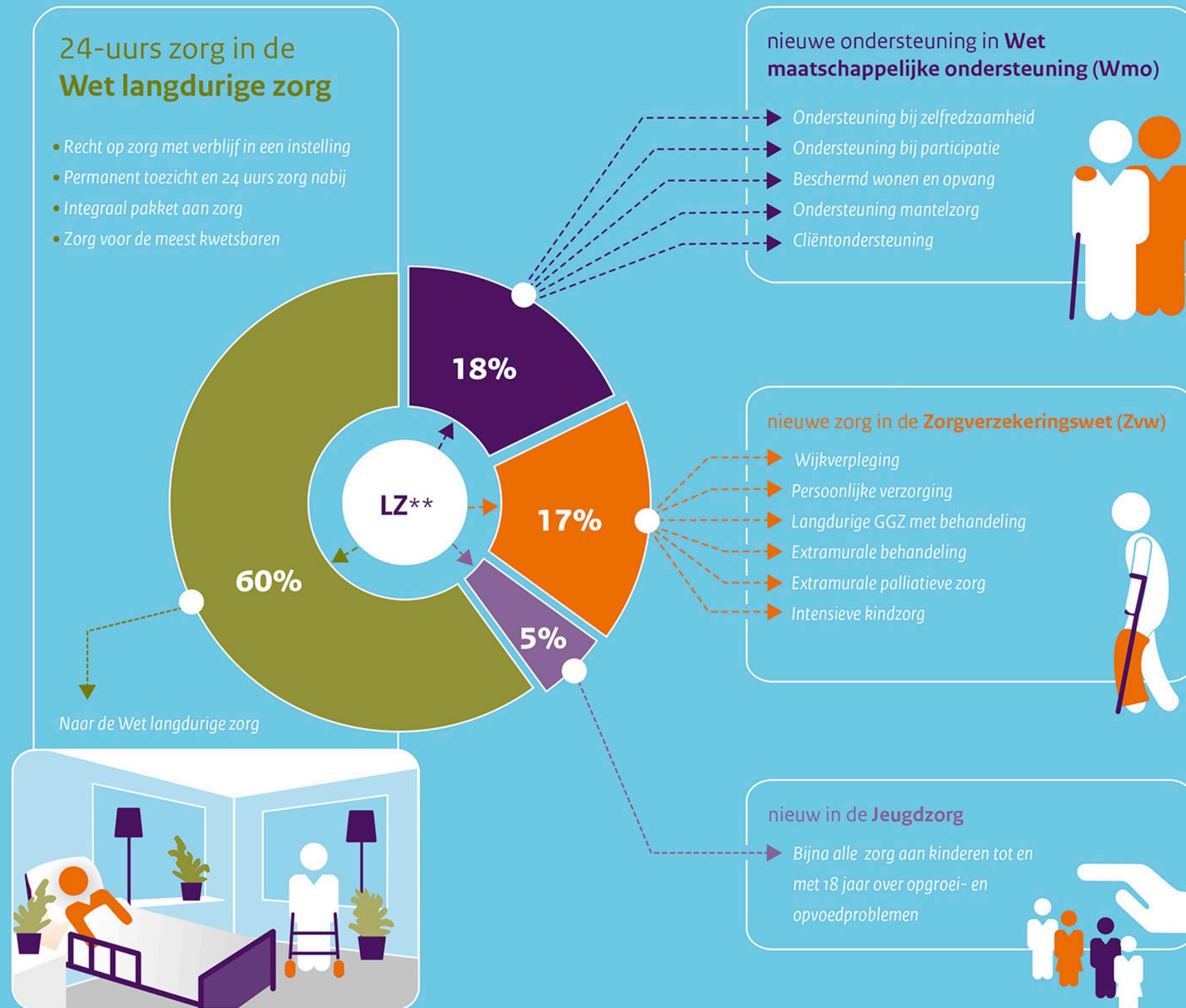
Central role of church and community life

Strong welfare state (verzorgingsstaat)





Hervorming langdurige zorg



2017

40% single households

An aging society

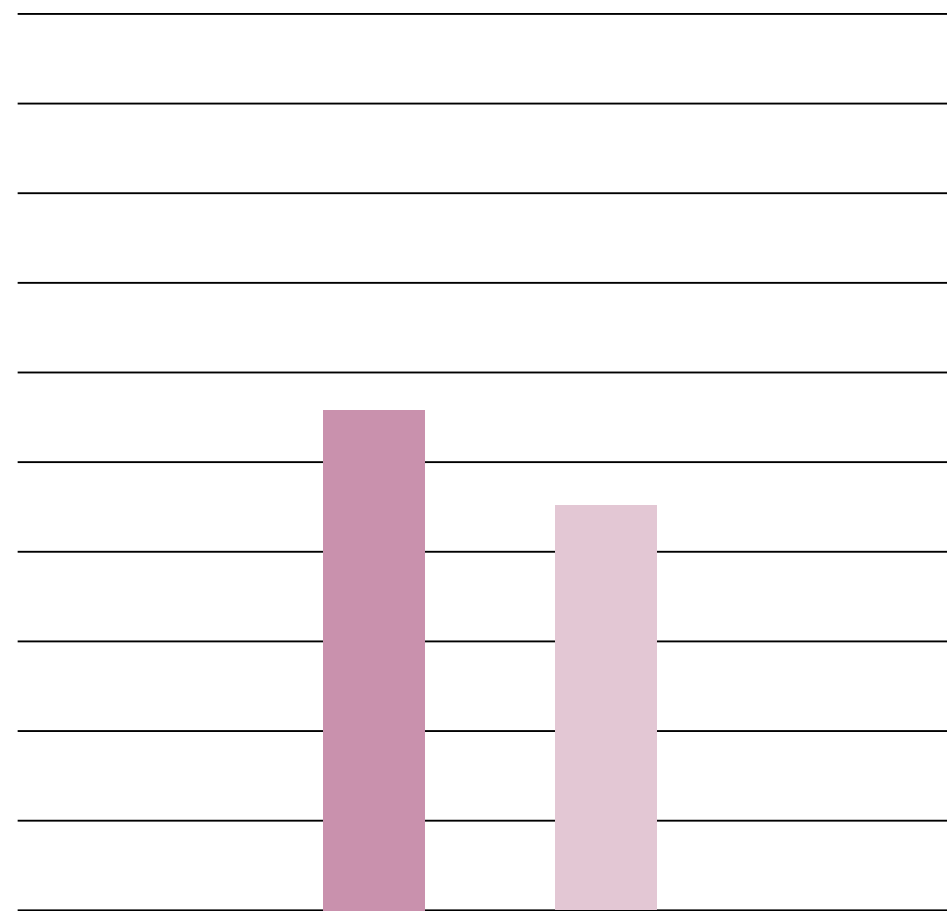
Social segragation, Individualization, loneliness

Greater focus on self-reliance,
closure care facilities, vacancy

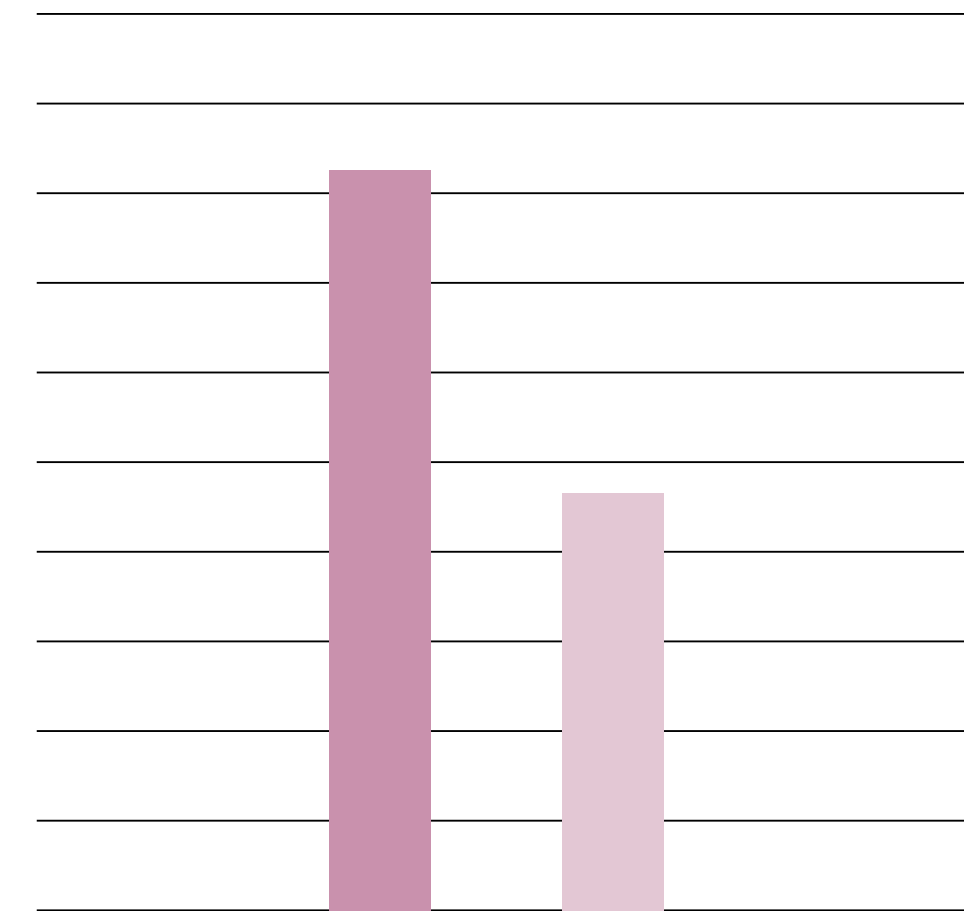
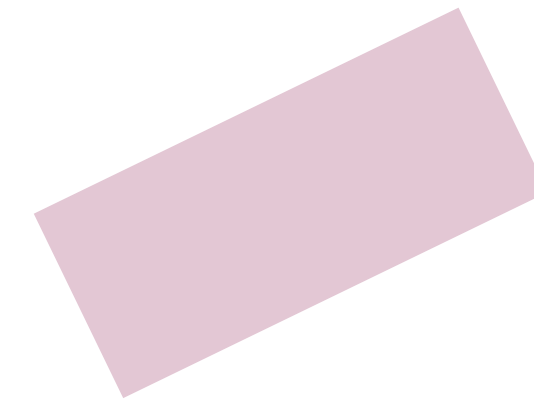
LONELY



8% 7%



55% 45%



83% 43%



1960

THEN

Big families

Birth wave

Central role of church and community
life

Homogeneous sociable society

Strong welfare state

Care in institutions

63

NOW

To 40% of single households

Strong aging society

Individualization, loneliness

Social segregation

Greater focus on self-reliance

Closure care facilities, vacancy



2017

ANALYSIS

PERCENTAGE EENZAME MENSEN IN OMMOORD



1960

HOW TO BUILD?

65

HOW TO TRANSFORM?



2017

GREEN

Ommoord is a perfect location for elderly:
Set in a green surrounding, located in urban environment:



ZERO STEP

Zero step apartments



FACILITIES

Many facilities within
walking distance: 300 m
(Bron)



..., I just want to make new friends'



..., I want to spend less on rent and have a smaller apartment; i have to much unused space'

..., I often feel quite lonely.



..., I'm dependent on family but they cannot be here all the time'

I WANT TO STAY BUT...

..., I cannot use my balcony because of my disability'



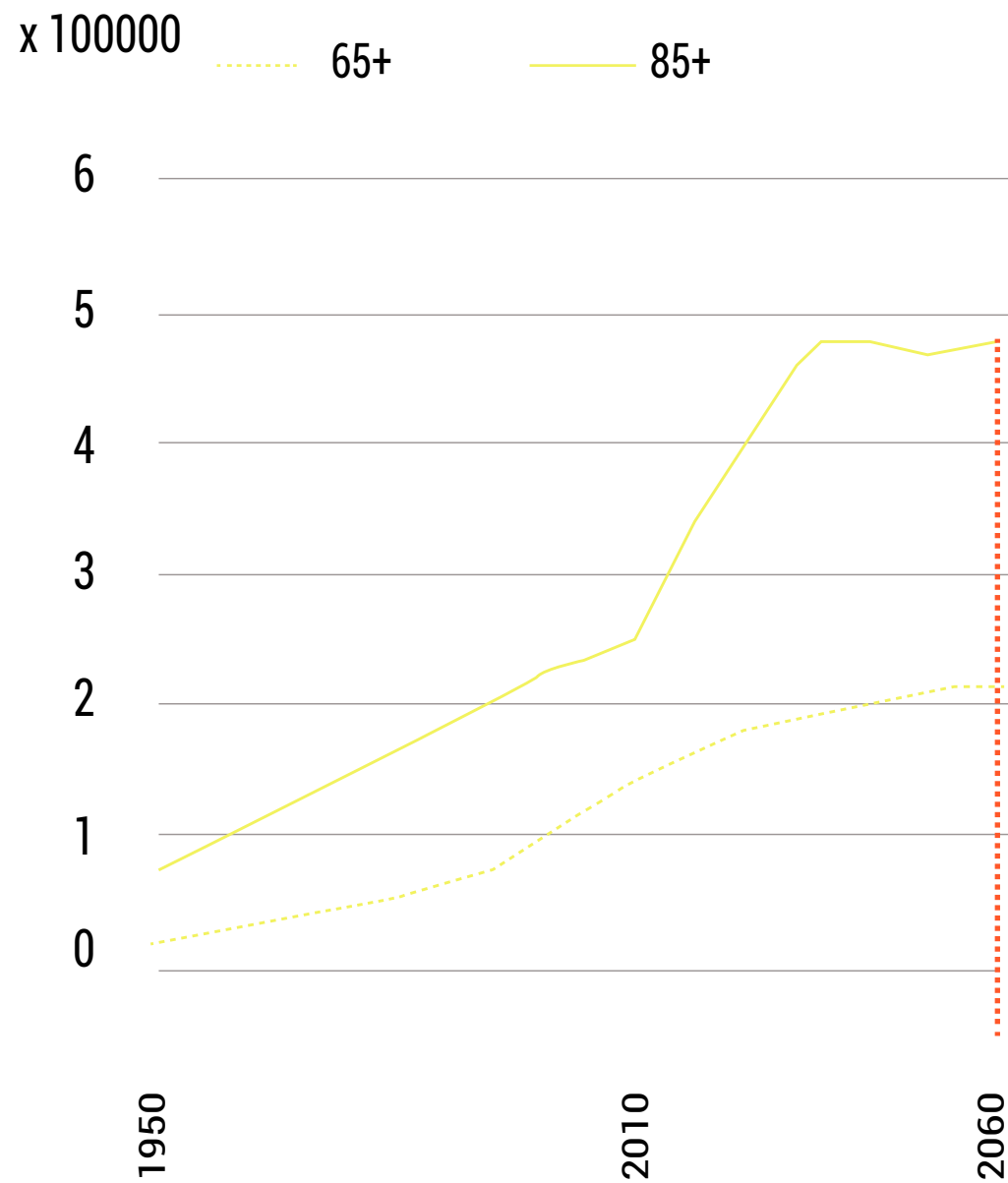
..., I'm not able to do everything myself but i also don't want to move to a nursing home'

WHAT BUILD ENVIROMENT SUITES US NOW? AND
WHAT TO WE NEED FOR IT?

SO...

DILEMMAS

ANALYSIS



AGING SOCIETY

+



POST-WAR HERITAGE

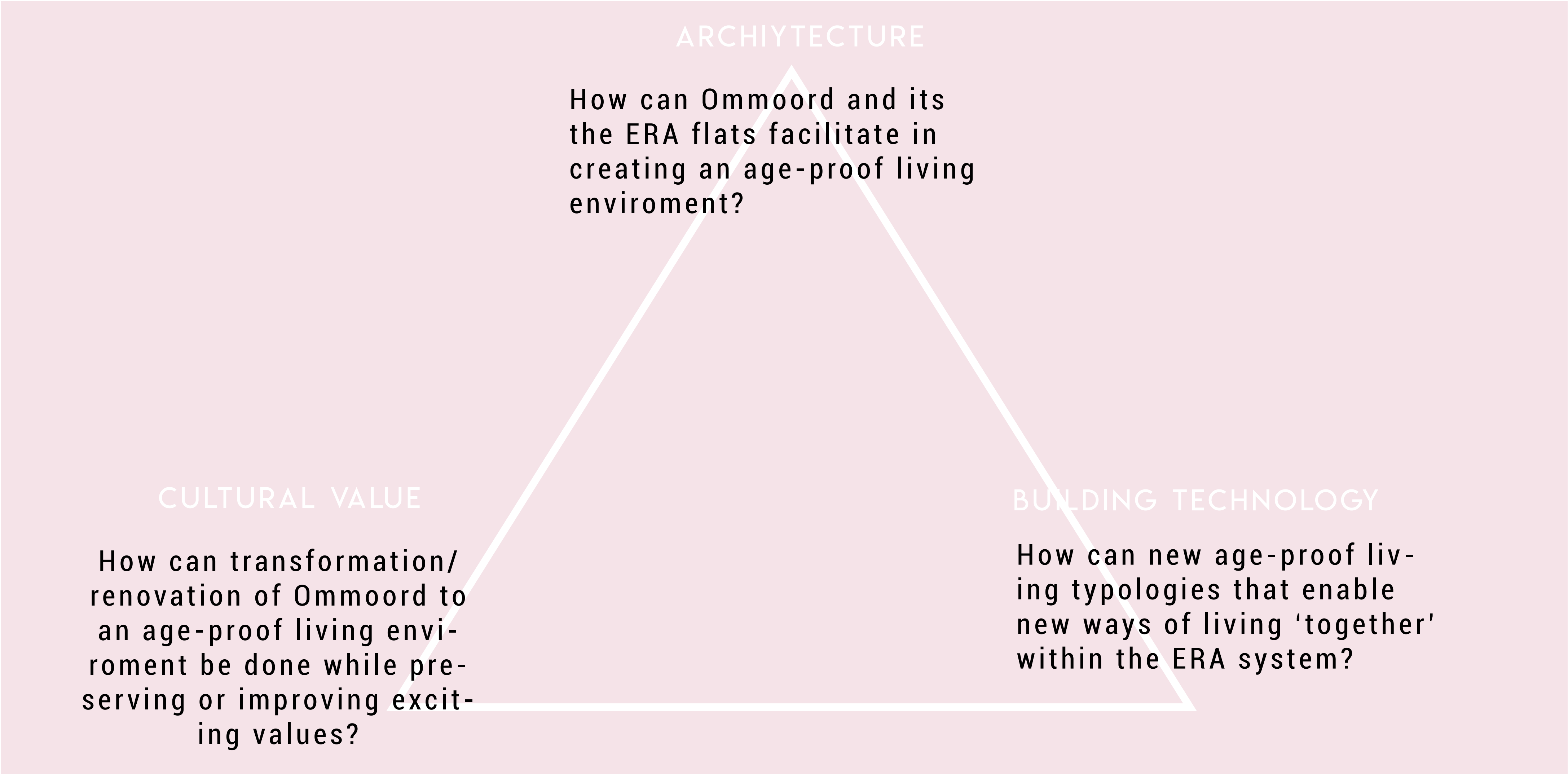
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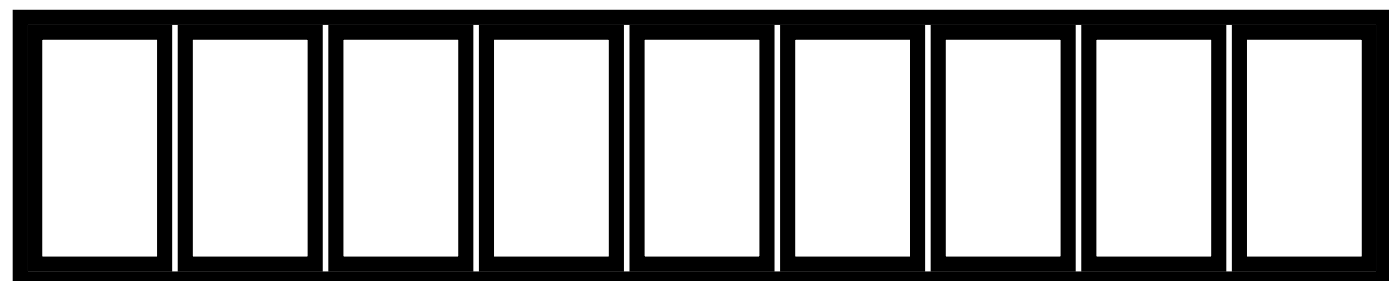
ERA ENERGY UPDATE

RESEARCH QUESTION

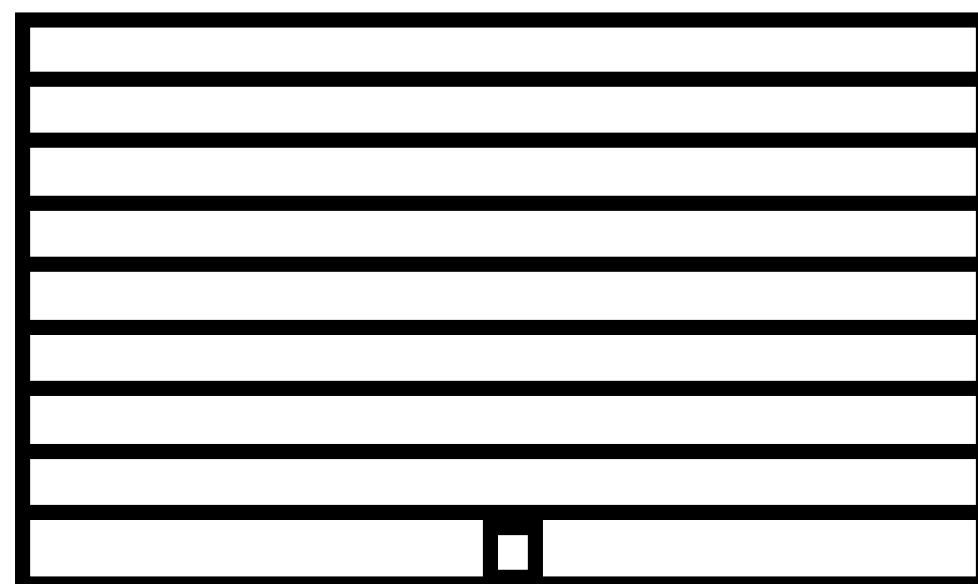
RESEARCH QUESTION



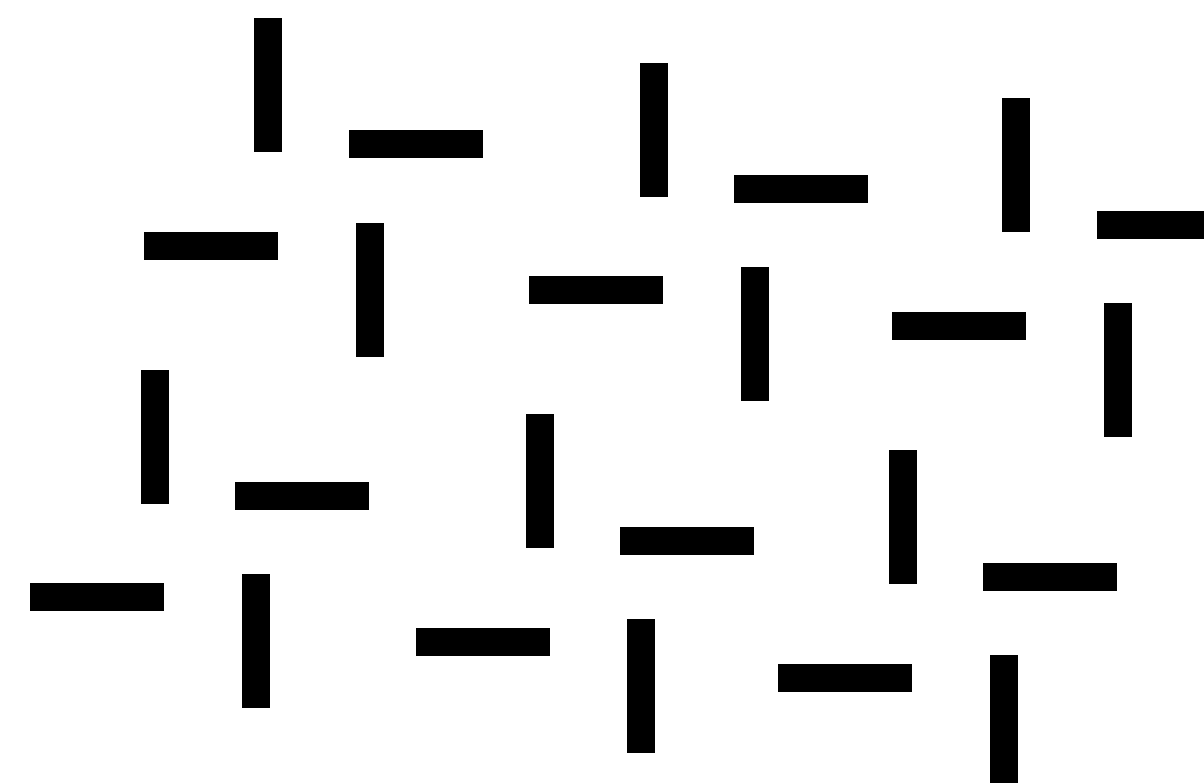
DESIGN



UNIT



BUILDING



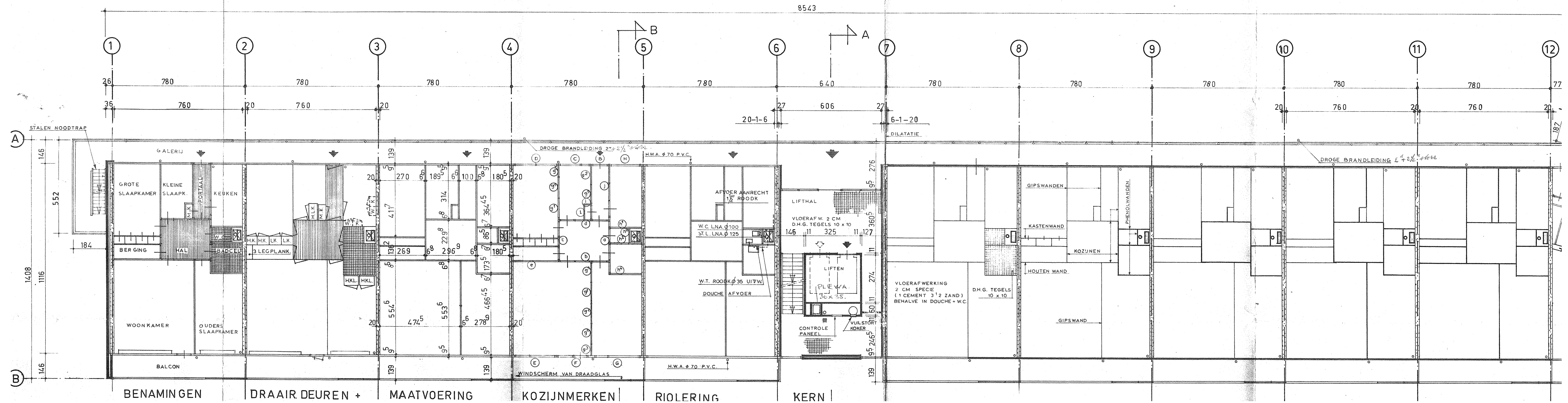
NEIGHBORHOOD



FLEXIBILITEIT



DESIGN



76

DESIGN

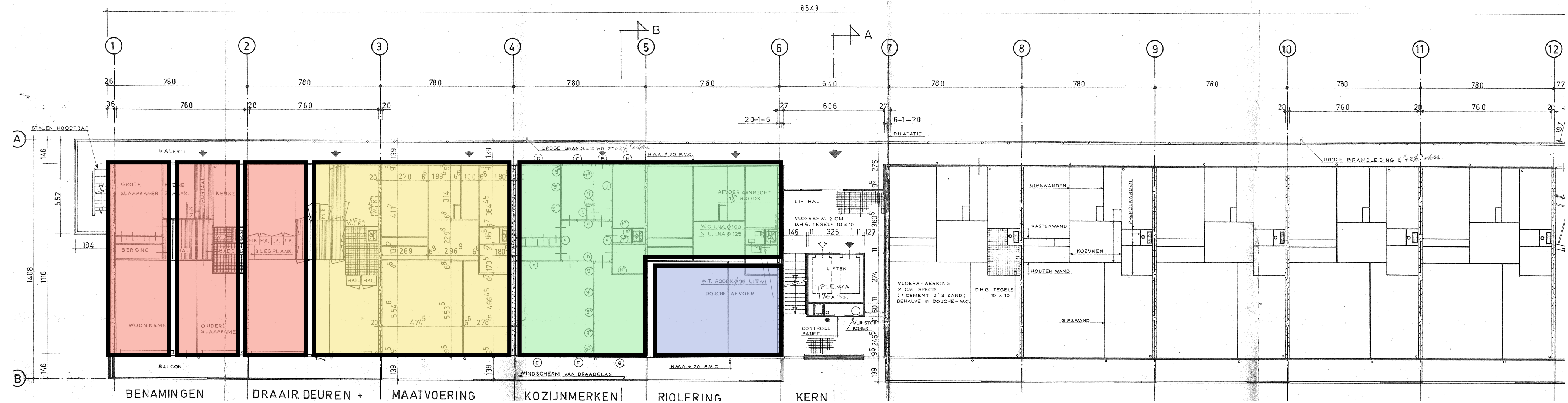
FLEXIBILITEIT

JOHN HABRAKEN'S IDEOLOGY. SUPPORT & INFILL

LOT OF FREEDOM IN THE FLOOR PLANS



DESIGN



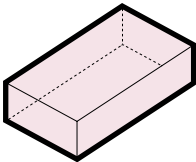
FLEXIBILITEIT

JOHN HABRAKEN'S IDEOLOGY. CARRIER & INFILL

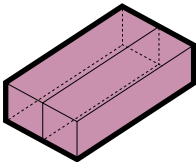
LOT OF FREEDOM IN THE FLOOR PLANS



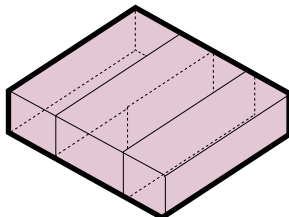
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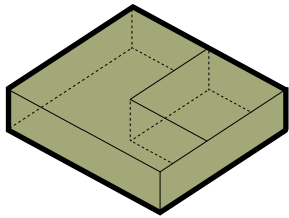
TYPE A



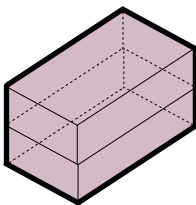
TYPE B



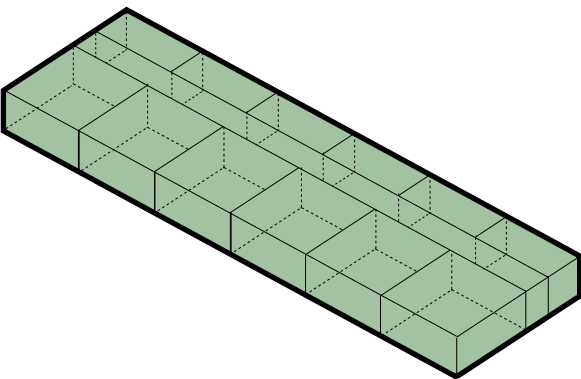
TYPE C



TYPE D



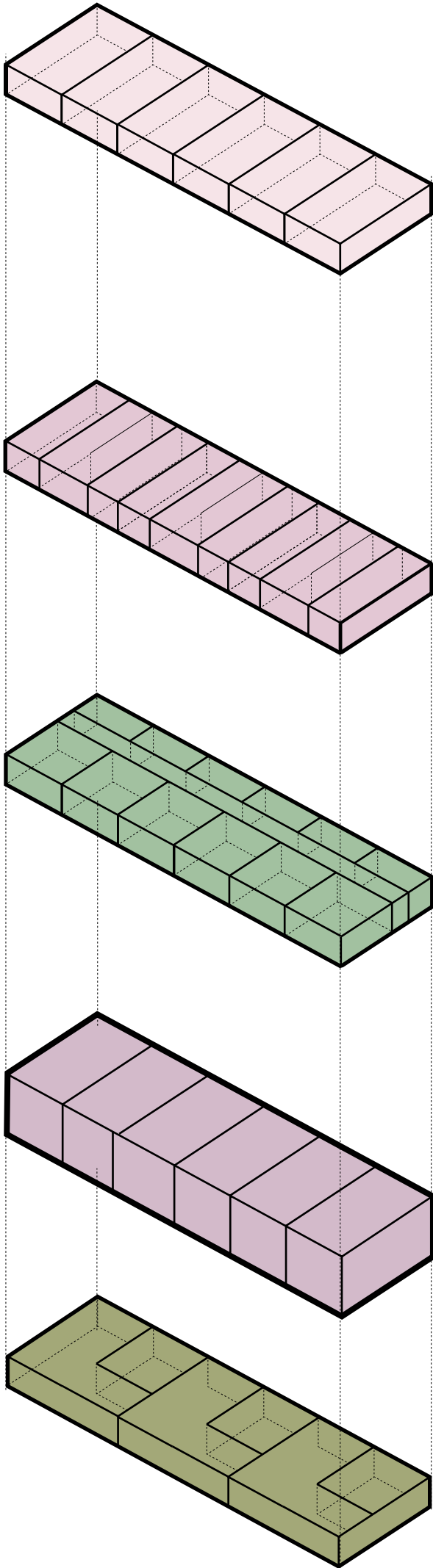
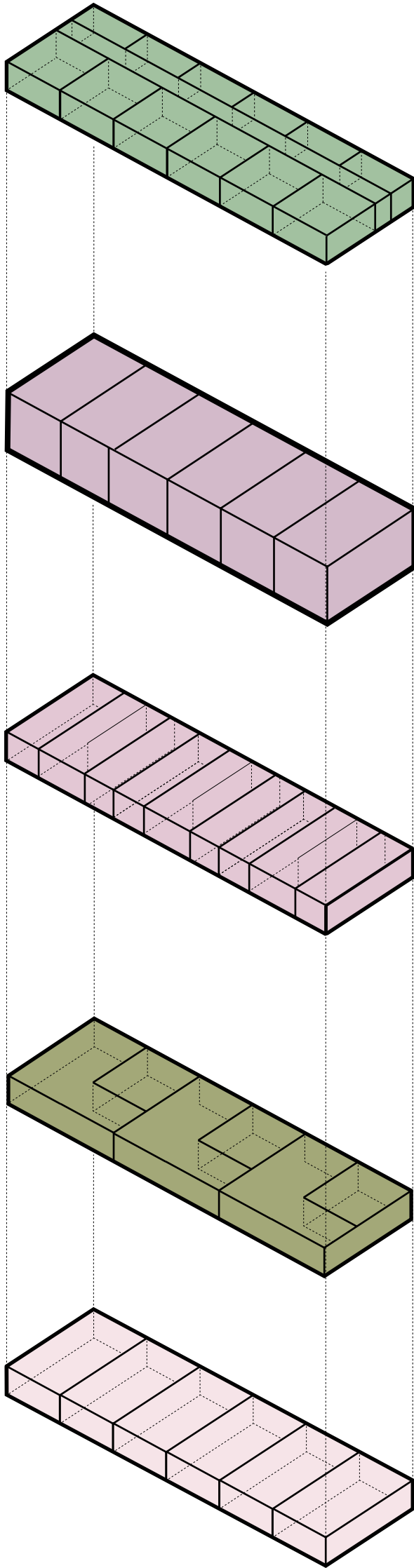
TYPE E



TYPE F

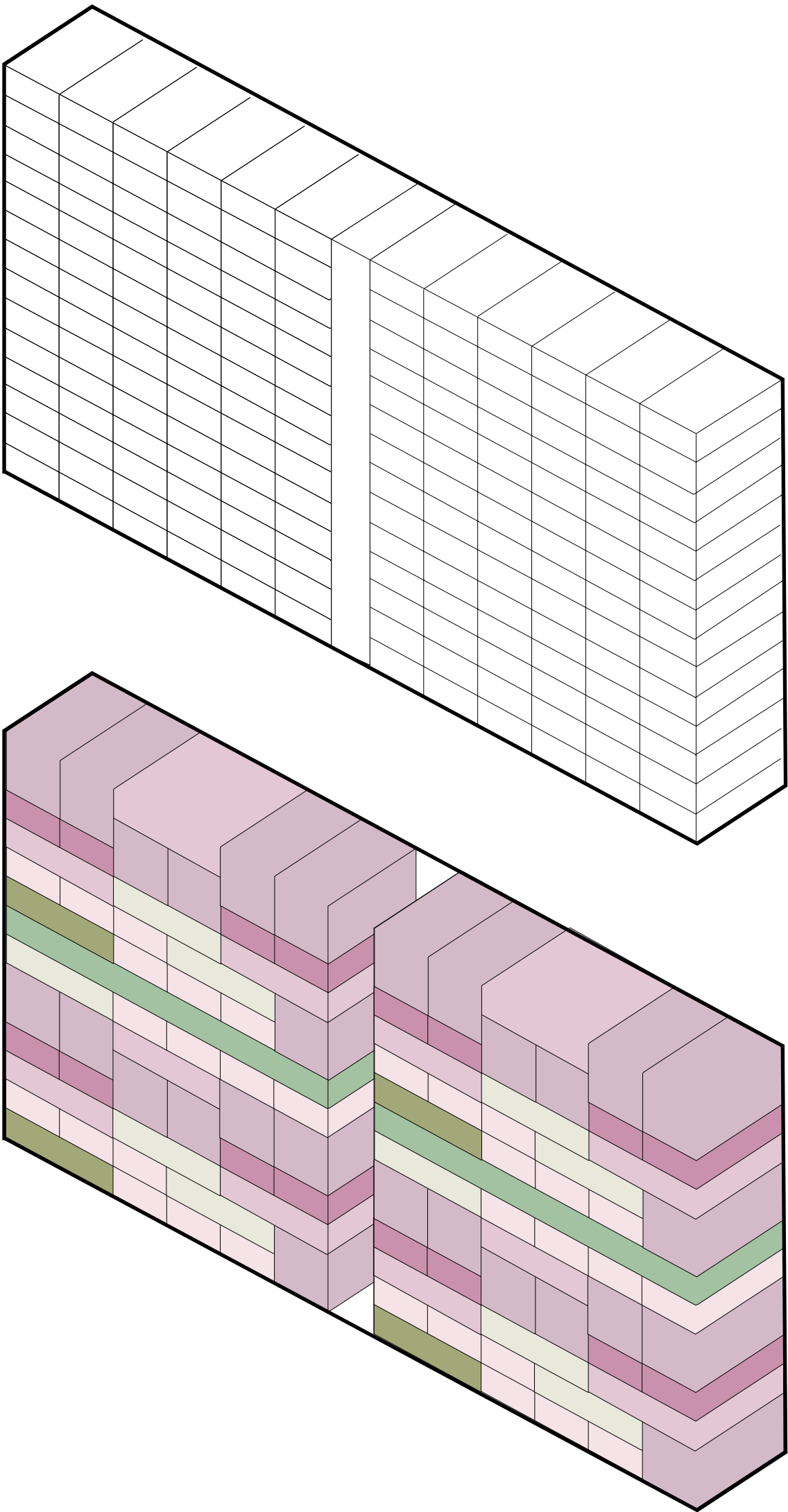
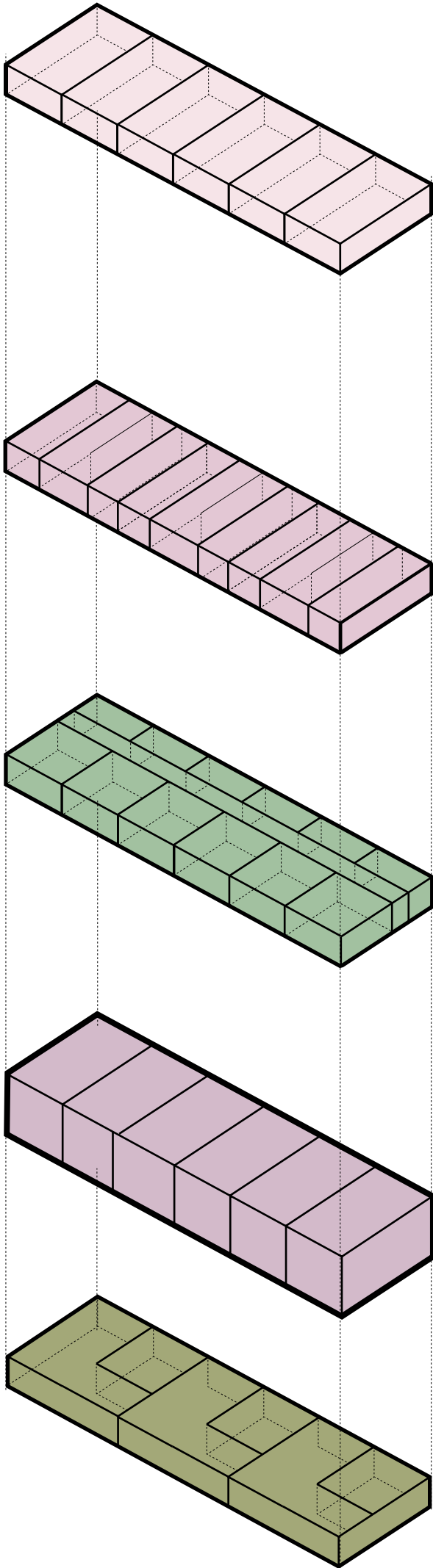
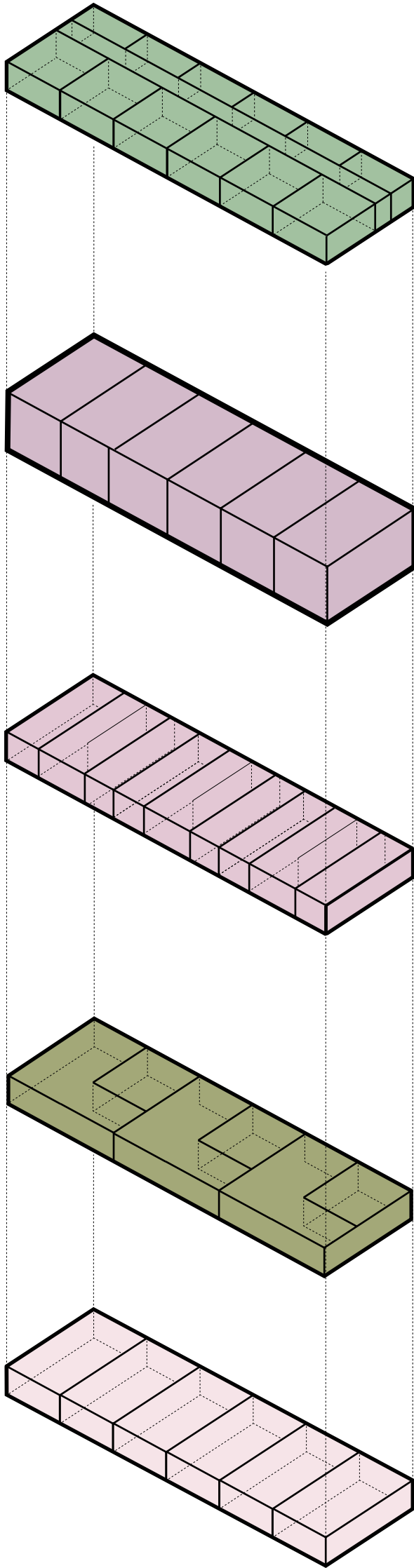
DESIGN

DESIGN



DESIGN

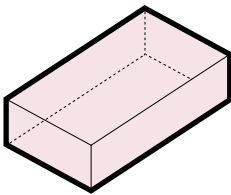
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DESIGN

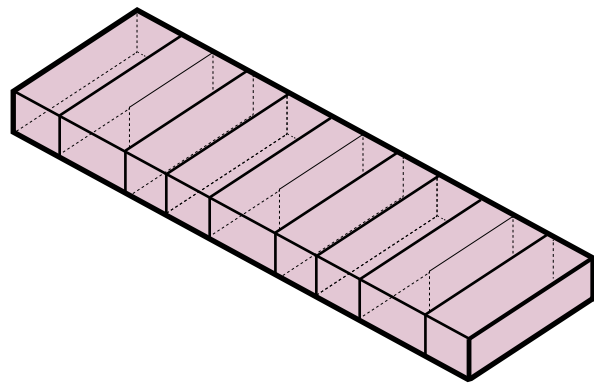
DESIGN

AGE PROOF
HOUSE



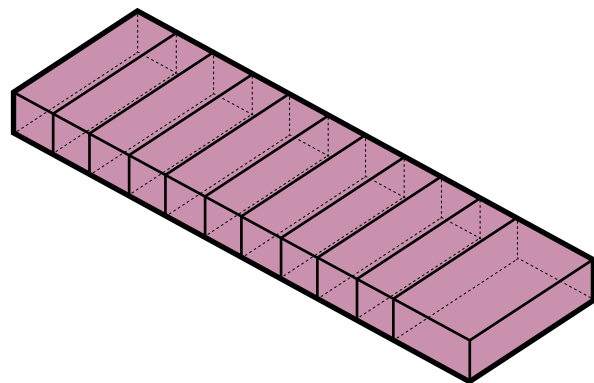
1 beuk, 1 story
1 - 2 people

LIVING WITH
STUDENTS



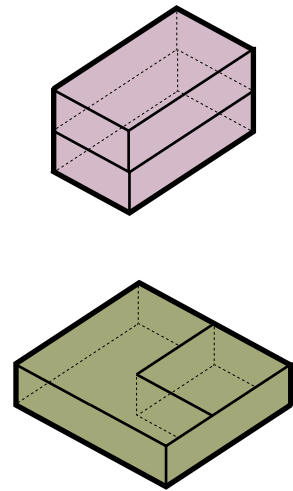
1/2 floor, 1 story
6 seniors, 2 stu-
dents

SENIOR
LIVING GROUP



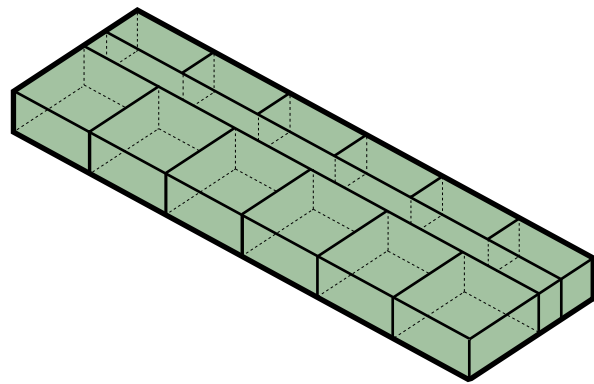
1/2 floor, 1 story
10 seniors

KANGAROO
DWELLING



1 beuk, 2 story
2 beuk, 1 story
3 - 4 person
family/ 1 senior

SMALL SCALE
LIVING



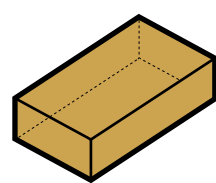
1/2 floor, 1 story
7 people who
need 24h care



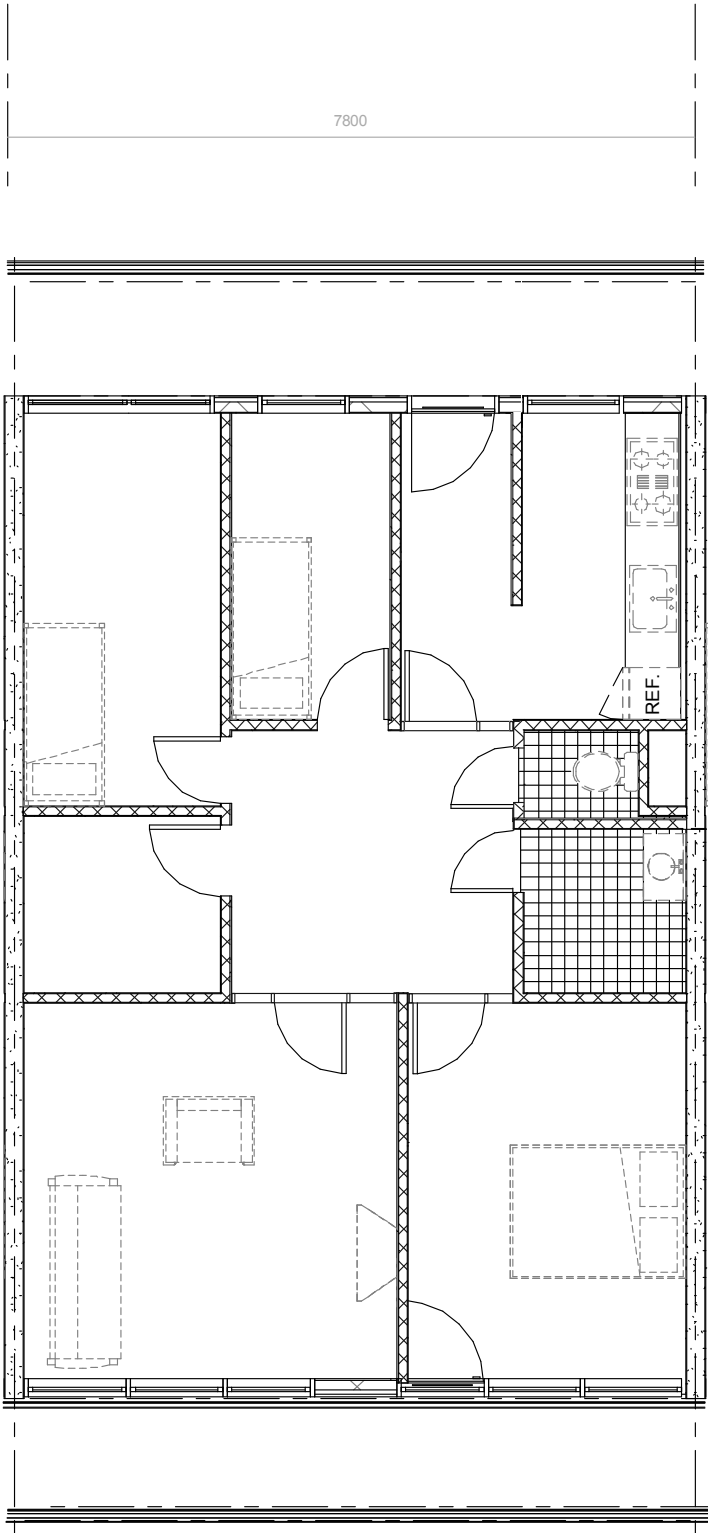
AGE PROOF
HOUSE

DESIGN

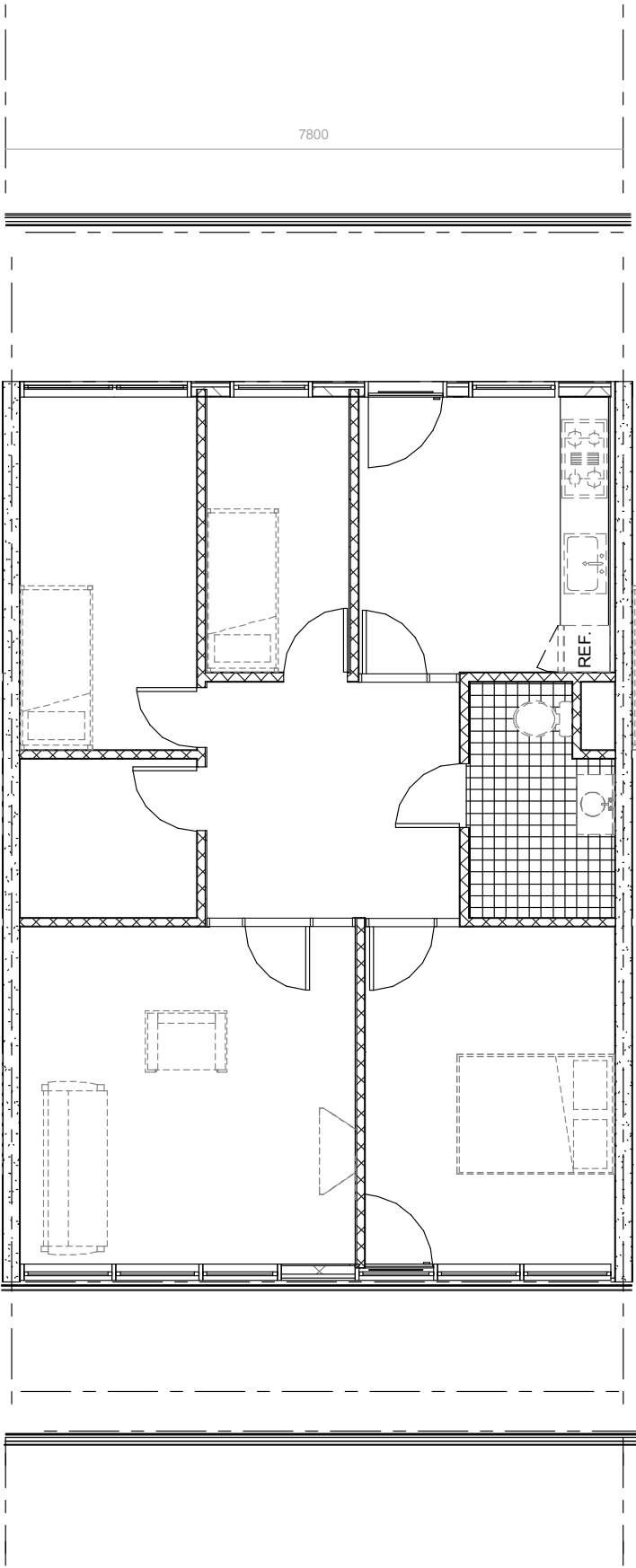
AGE PROOF
HOUSE



DESIGN



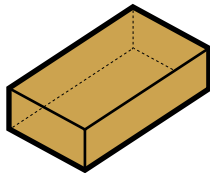
ORIGINAL



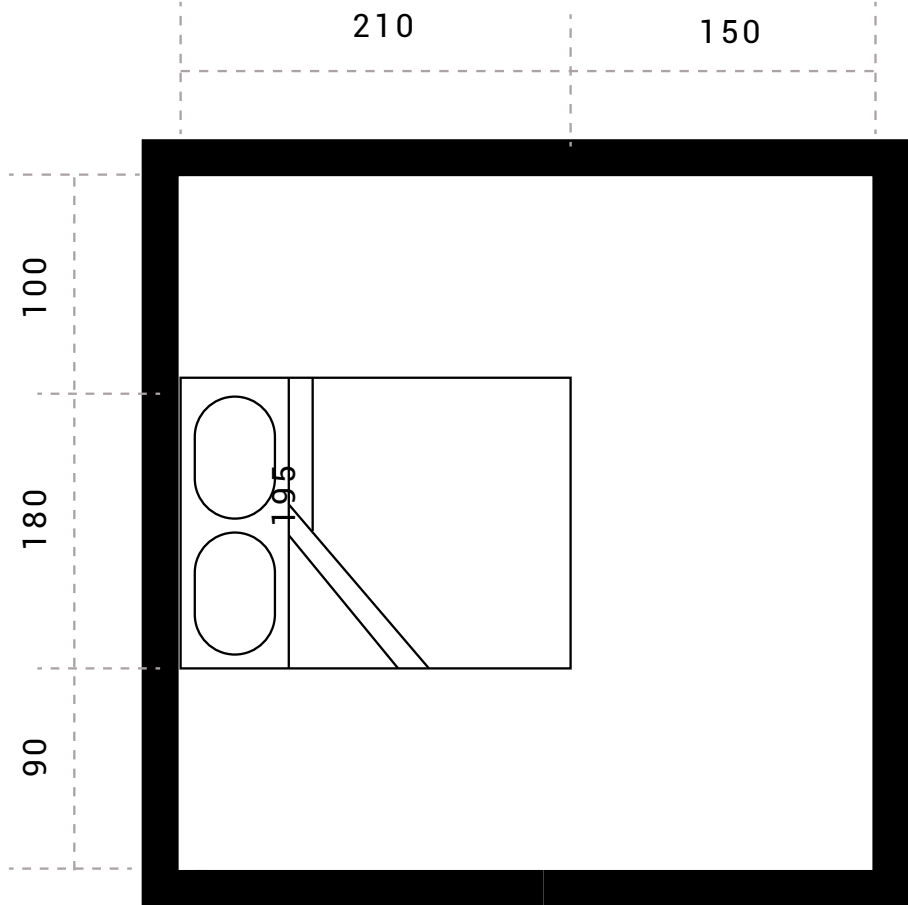
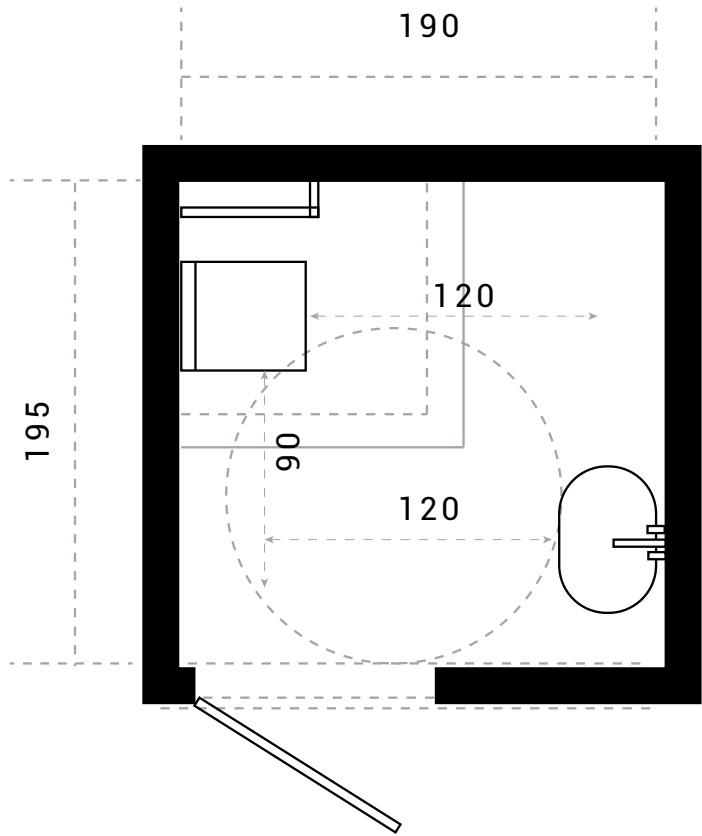
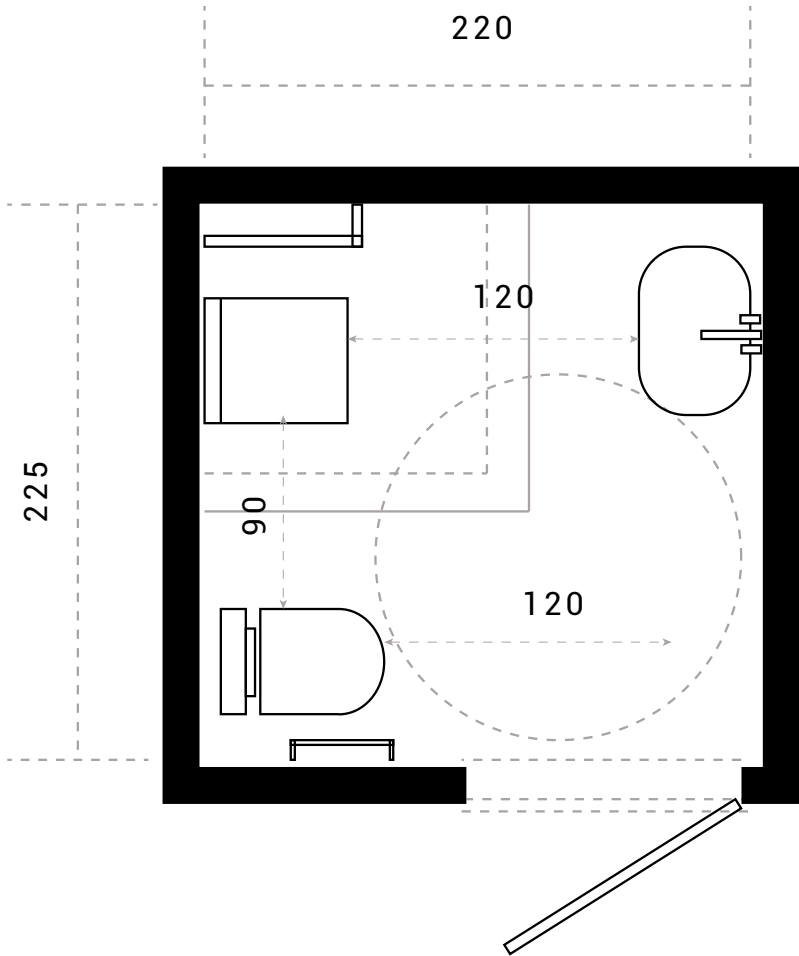
NEW

DESIGN

AGE PROOF
HOUSE

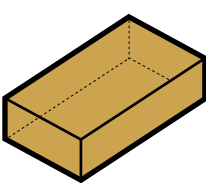


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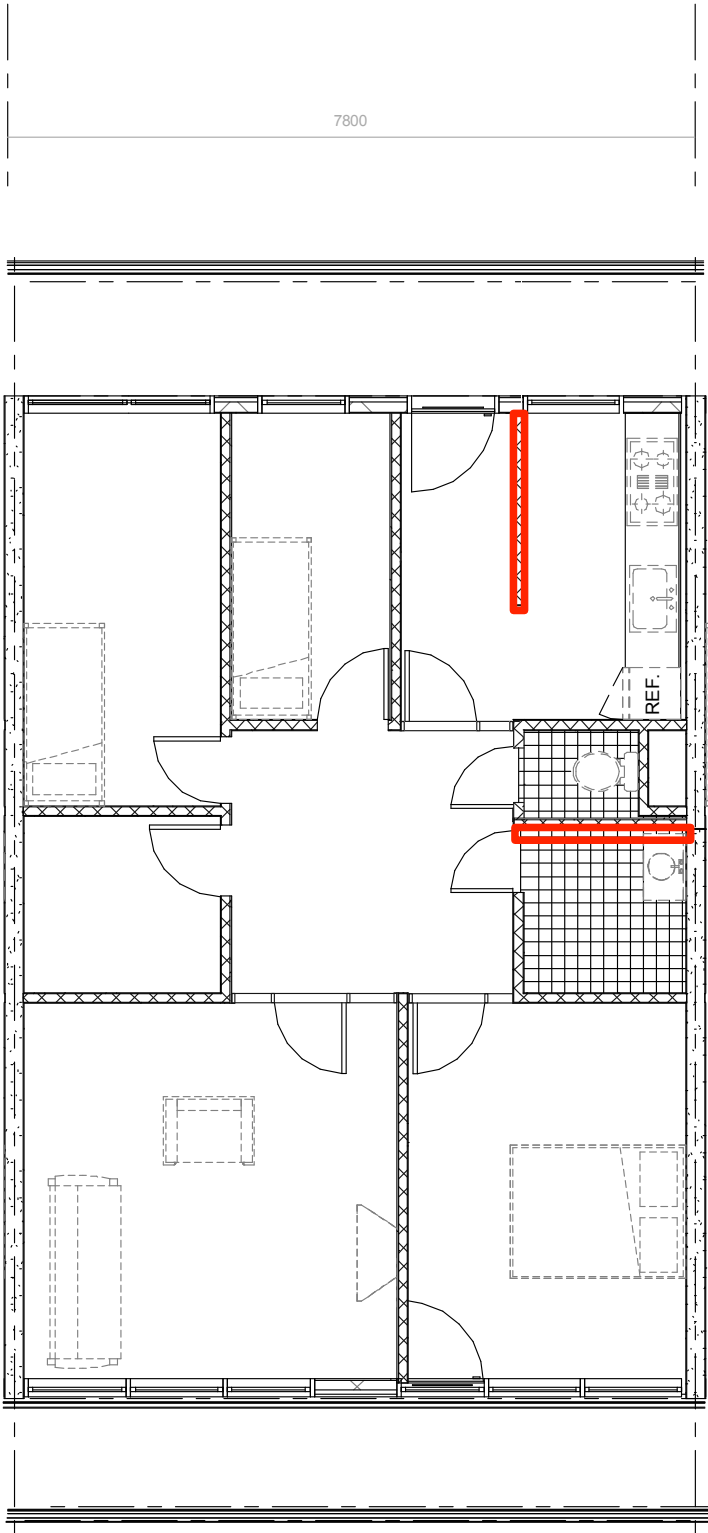


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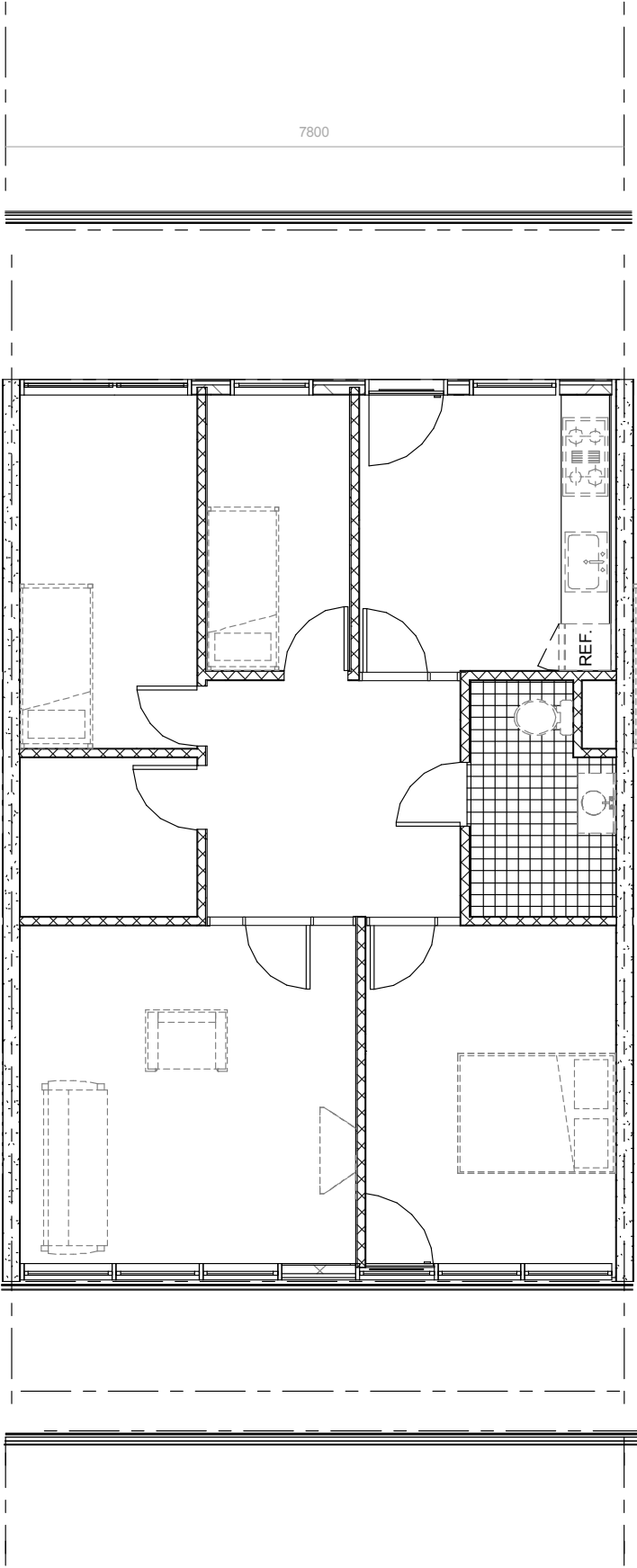
AGE PROOF
HOUSE



DESIGN



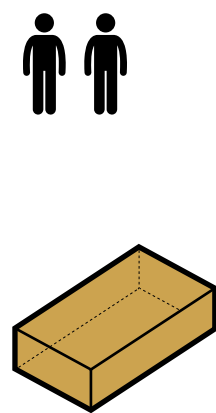
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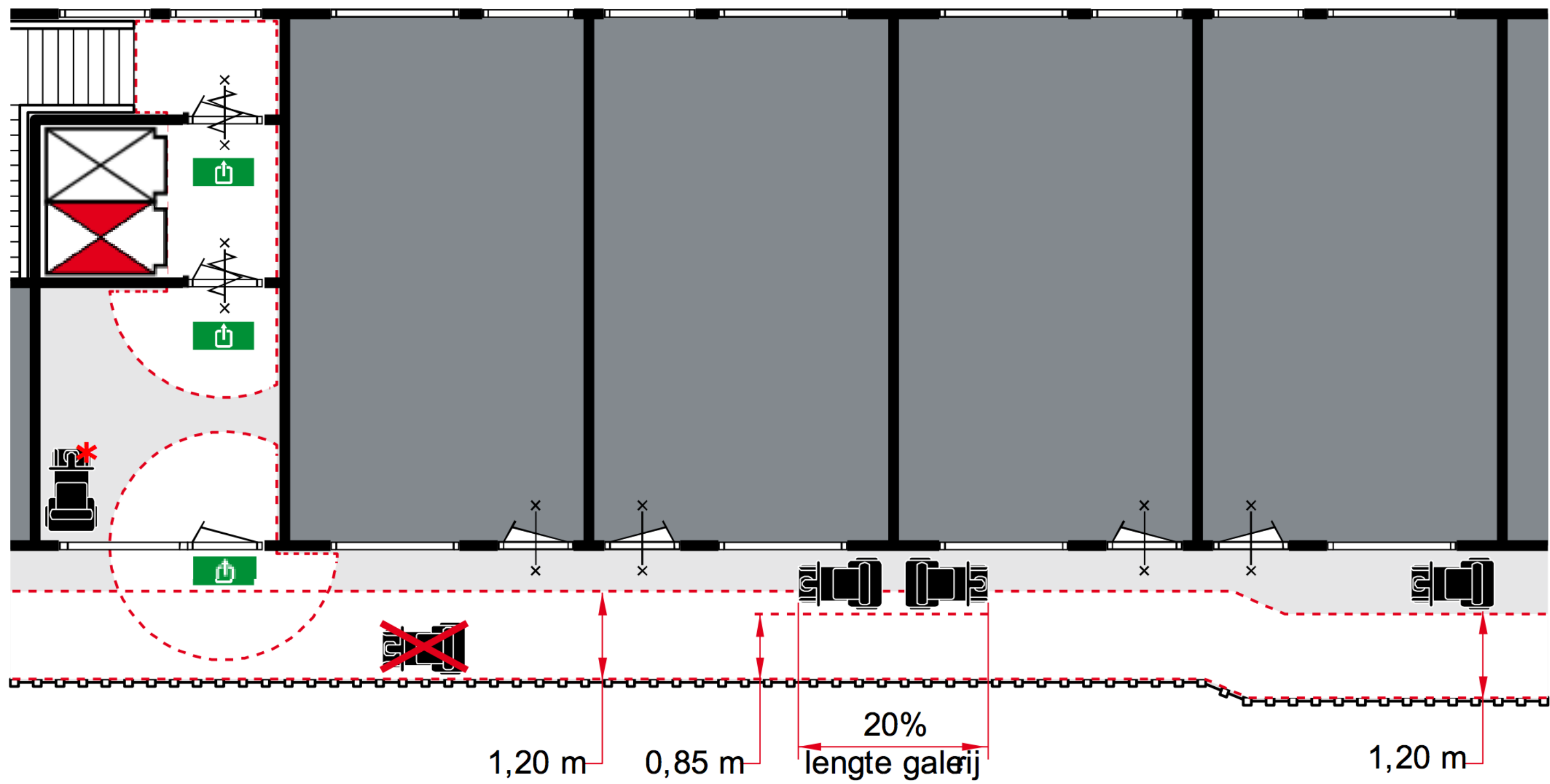
NEW

DESIGN

AGE PROOF
HOUSE

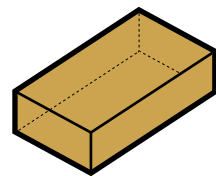


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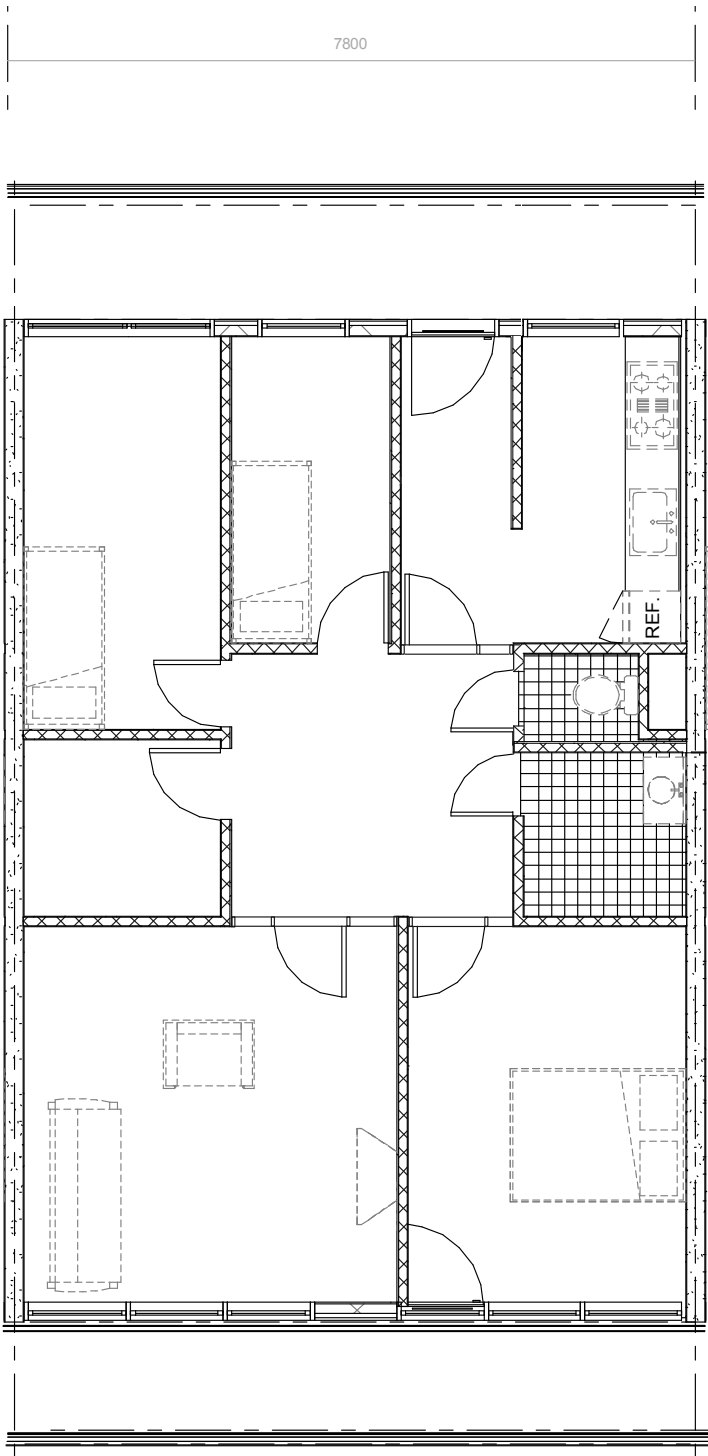


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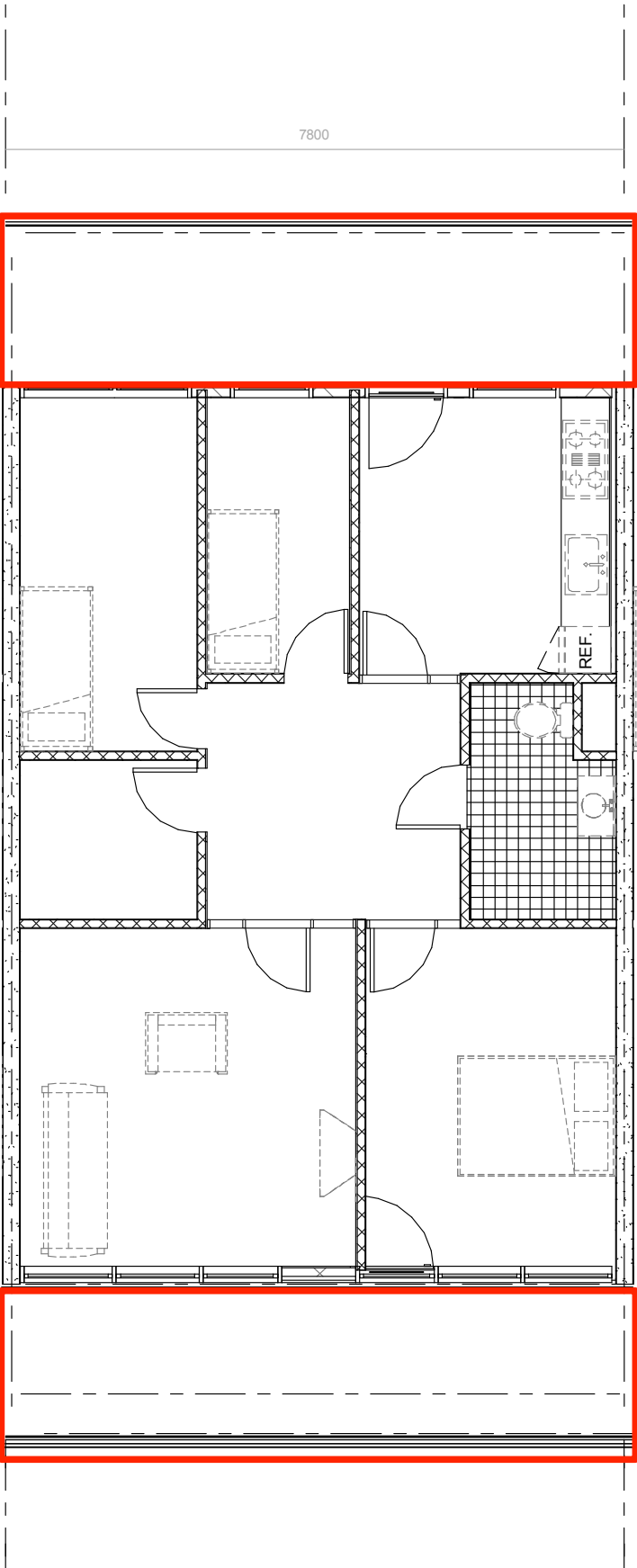
AGE PROOF
HOUSE



DESIGN



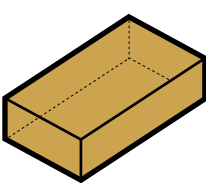
ORIGINAL



NEW

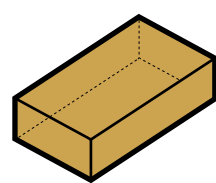
DESIGN

AGE PROOF
HOUSE

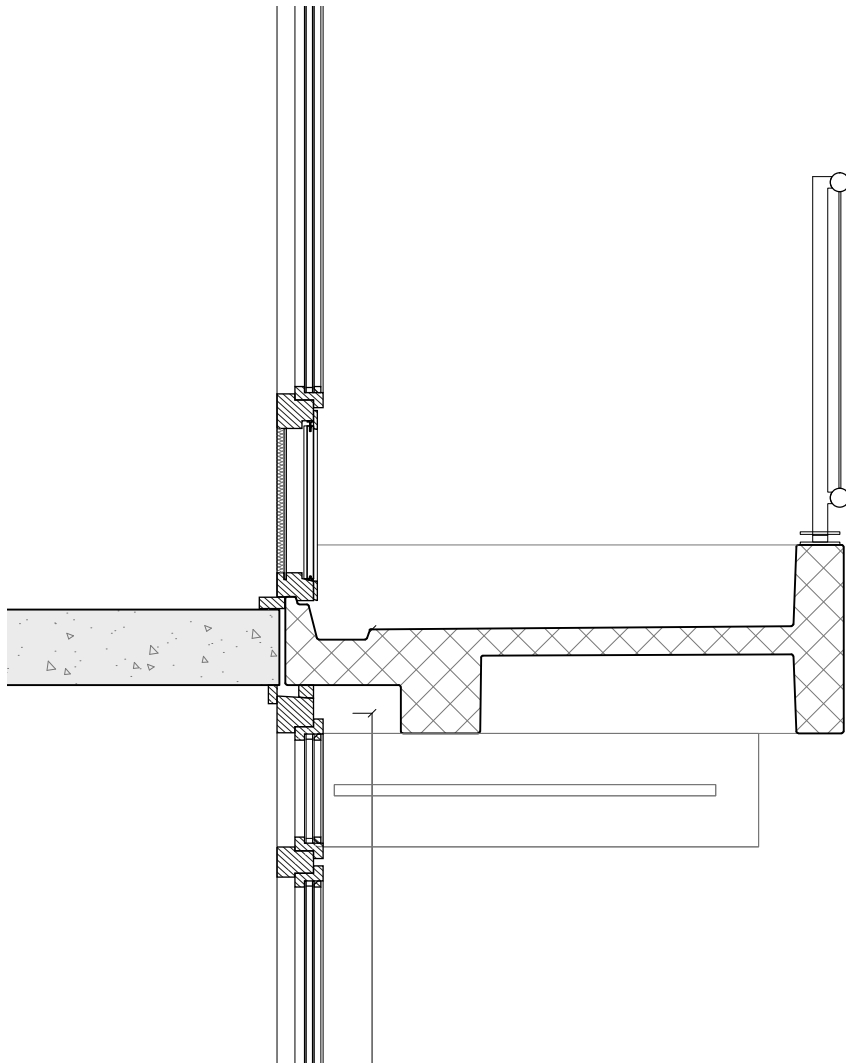


DESIGN

AGE PROOF
HOUSE



DESIGN



ORIGINAL
GALLERY SLAB

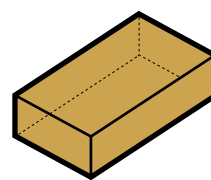


THRESHOLDS

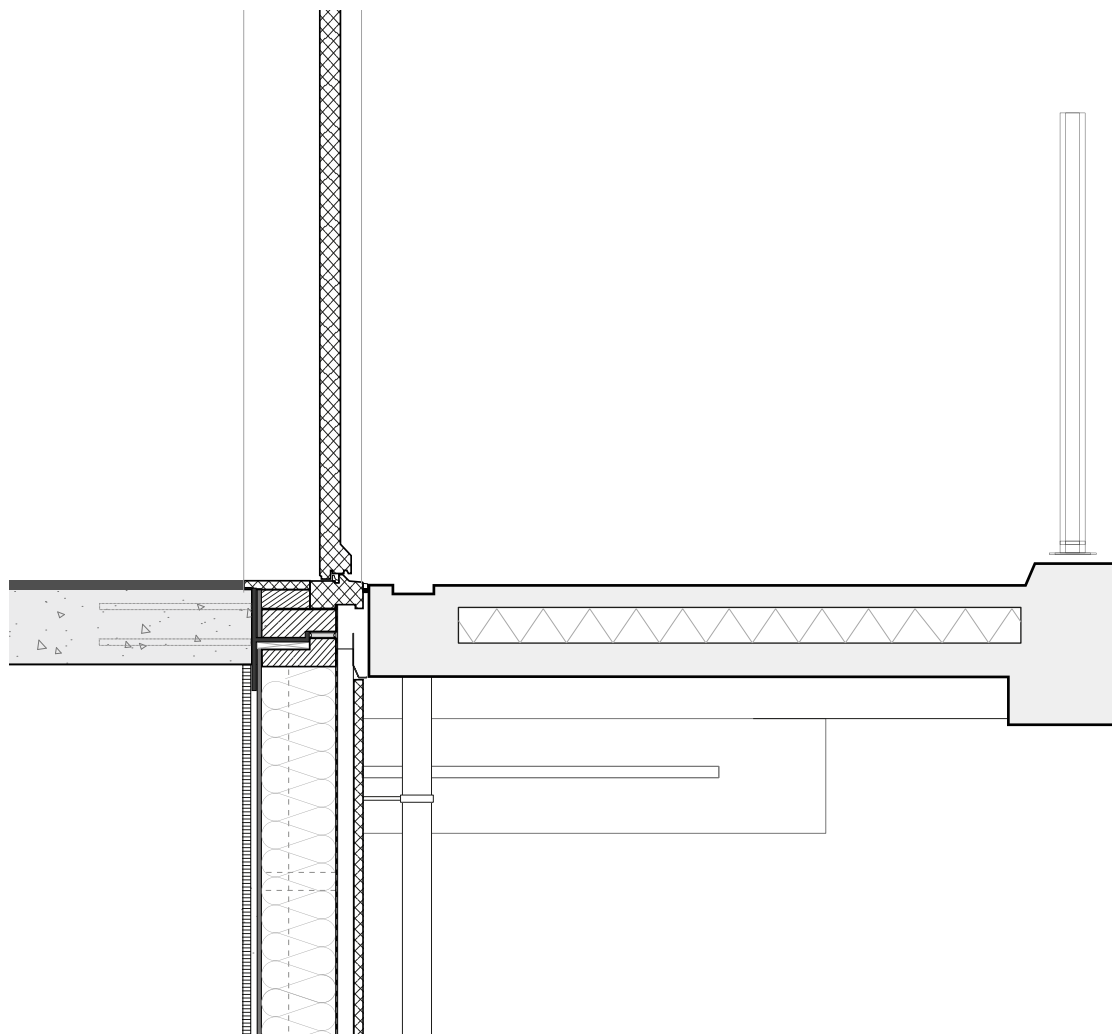


DESIGN

AGE PROOF
HOUSE



DESIGN



ORIGINAL
GALLERY SLAB



THRESHOLDS

DESIGN

DESIGN

DAYLIGHT IN
APPARTMENT

EXISTING SLAB	1,35 M	2407 KG
HIGH PREFOR- MANCE SLAB	1,90 M	2407 KG

CONSOLE

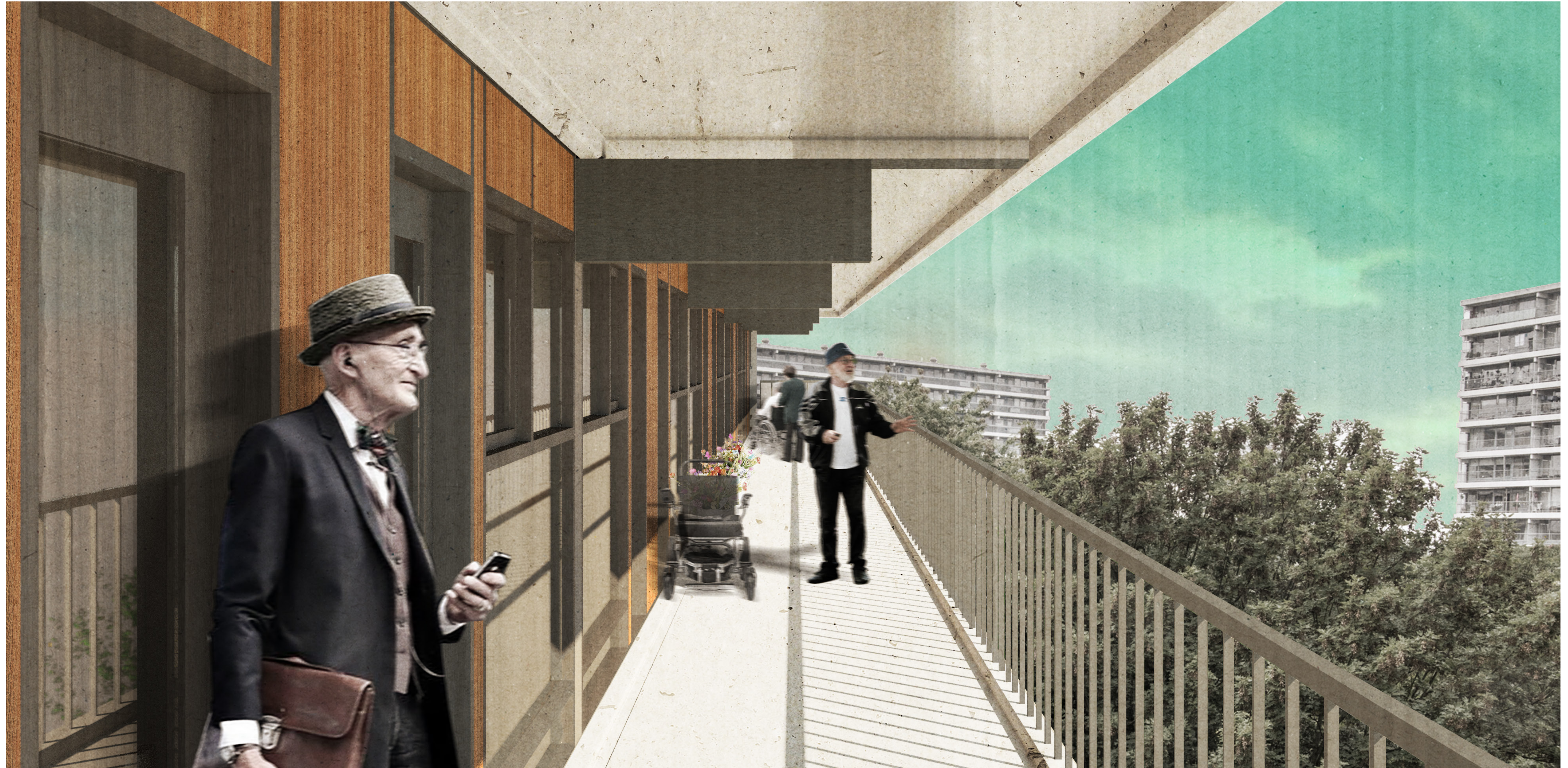
DESIGN

DESIGN



DESIGN

DESIGN

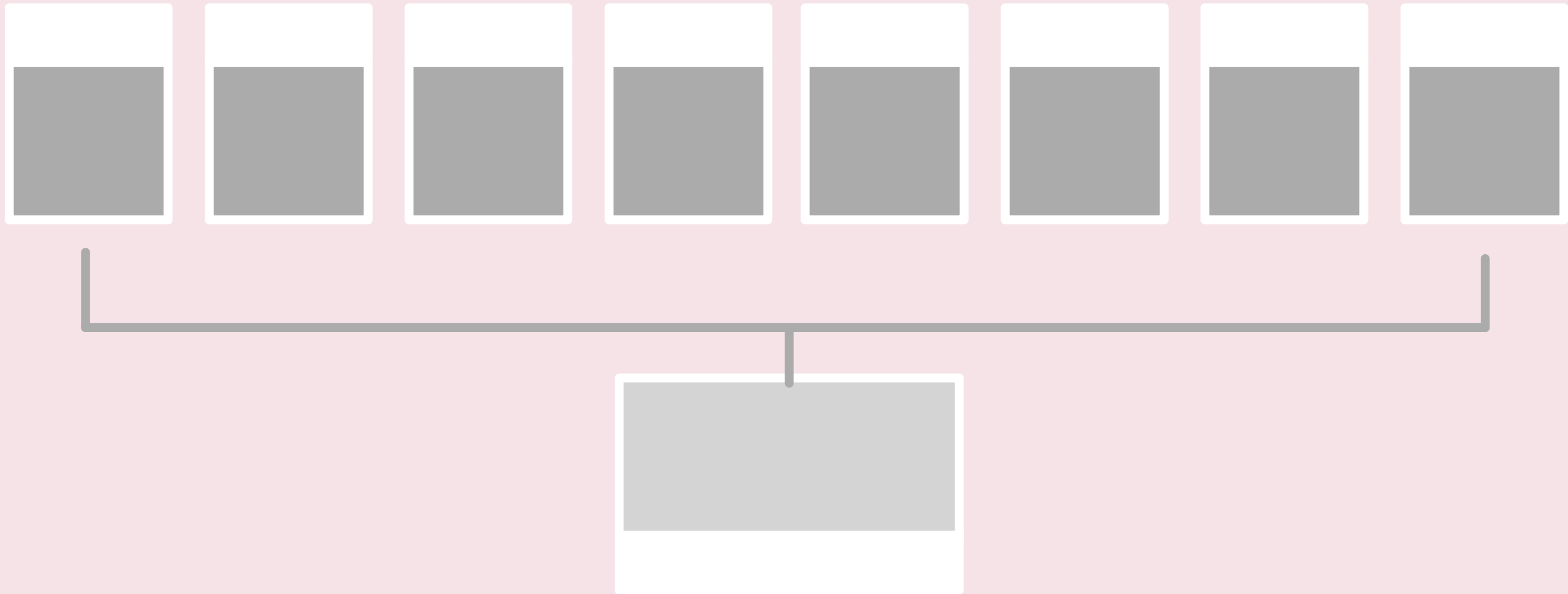


B & C

LIVING WITH
STUDENTS

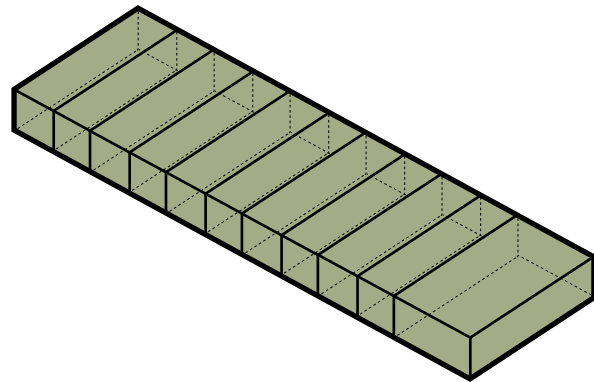
SENIOR
LIVING GROUP

LIVING GROUPS

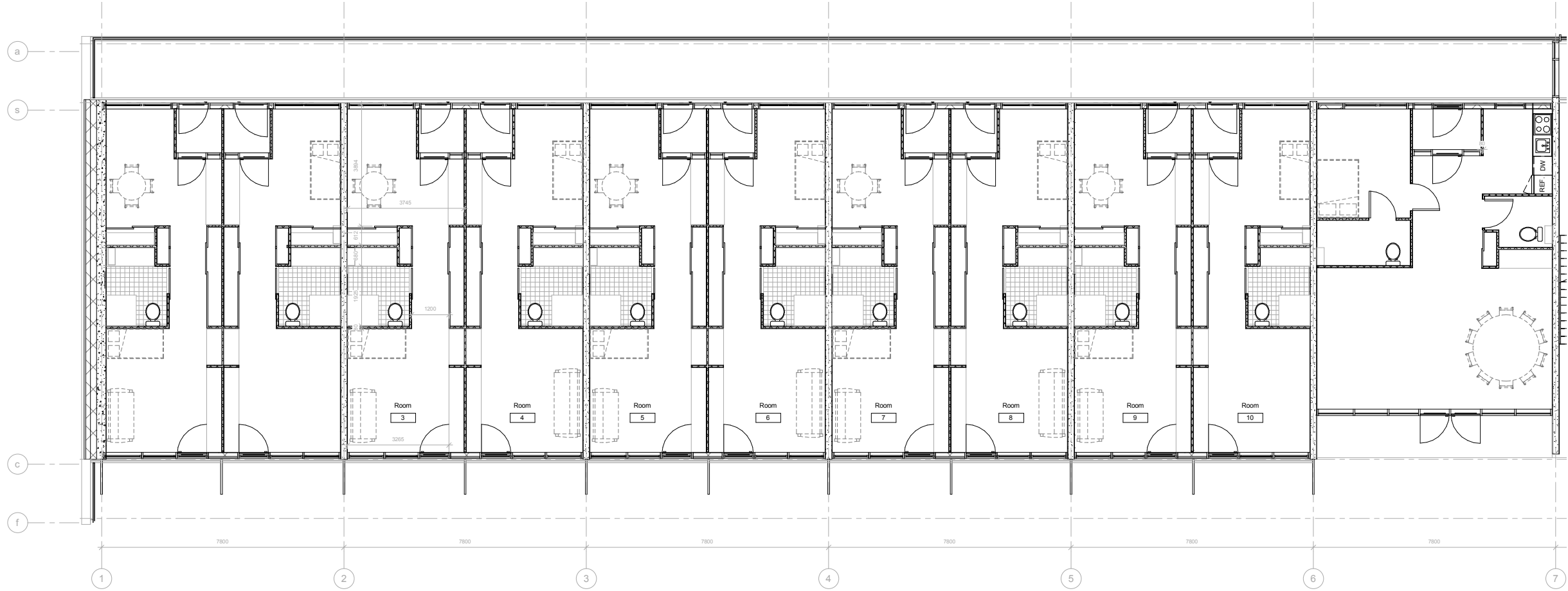


DESIGN

SENIOR
LIVING GROUP

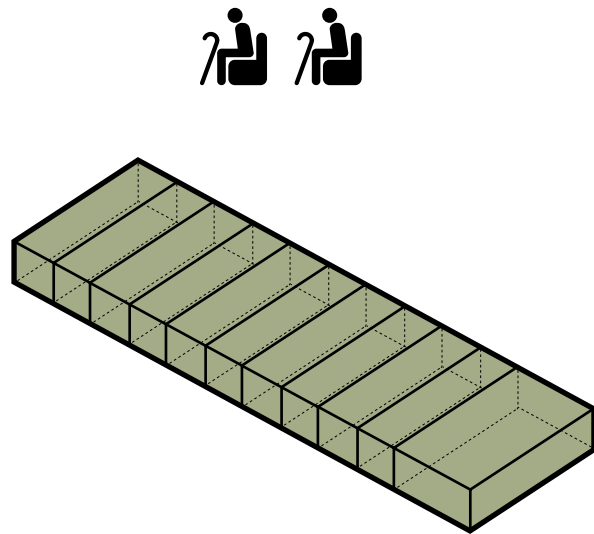


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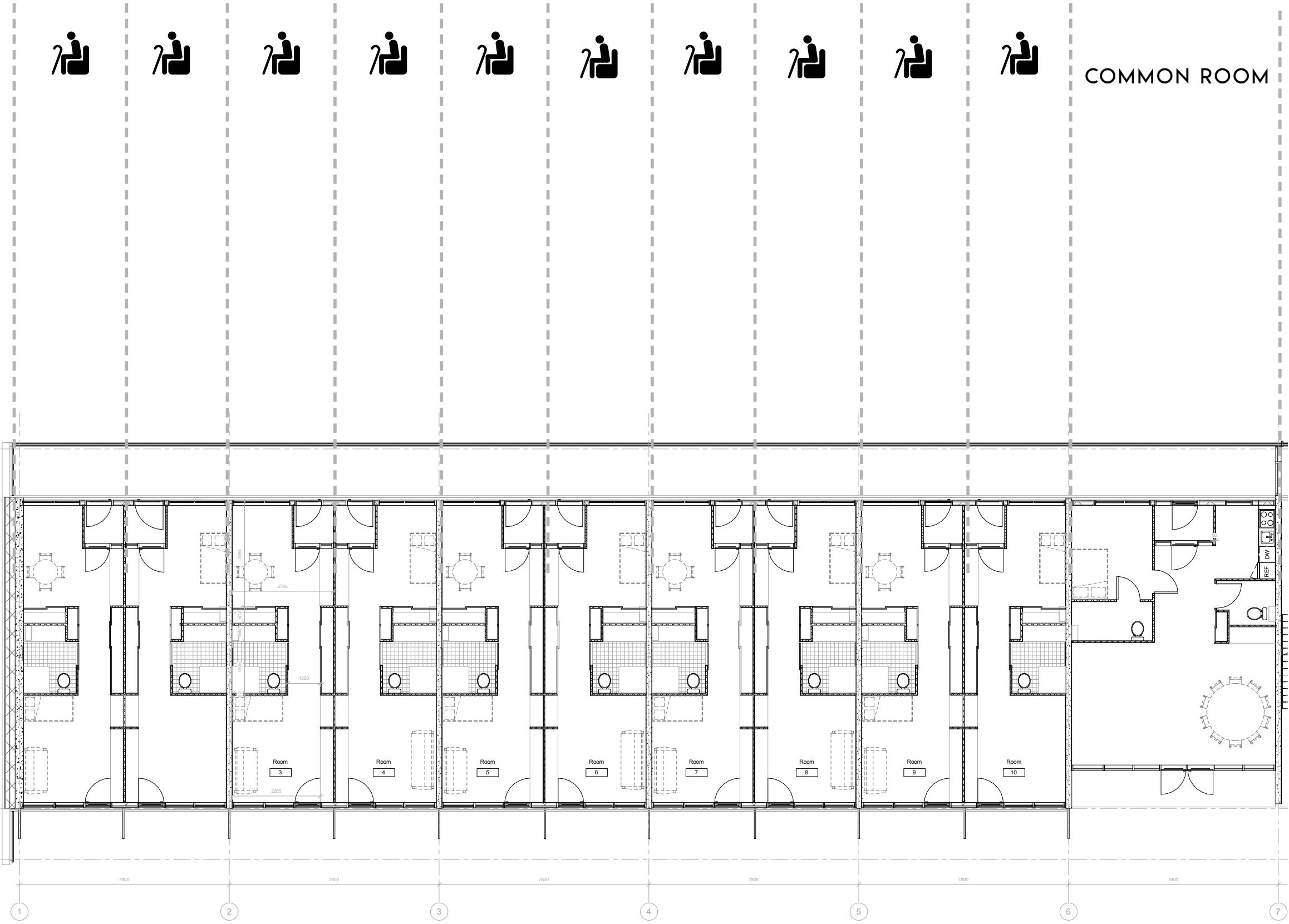


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SENIOR
LIVING GROUP

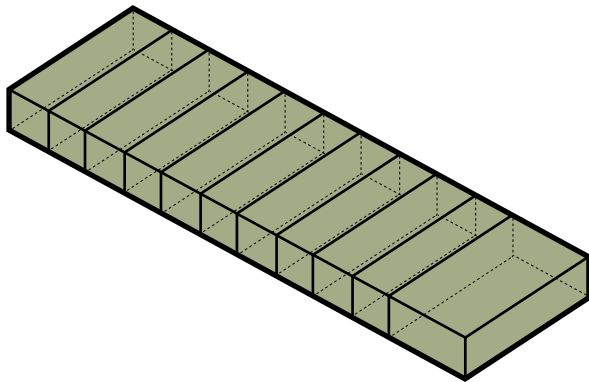


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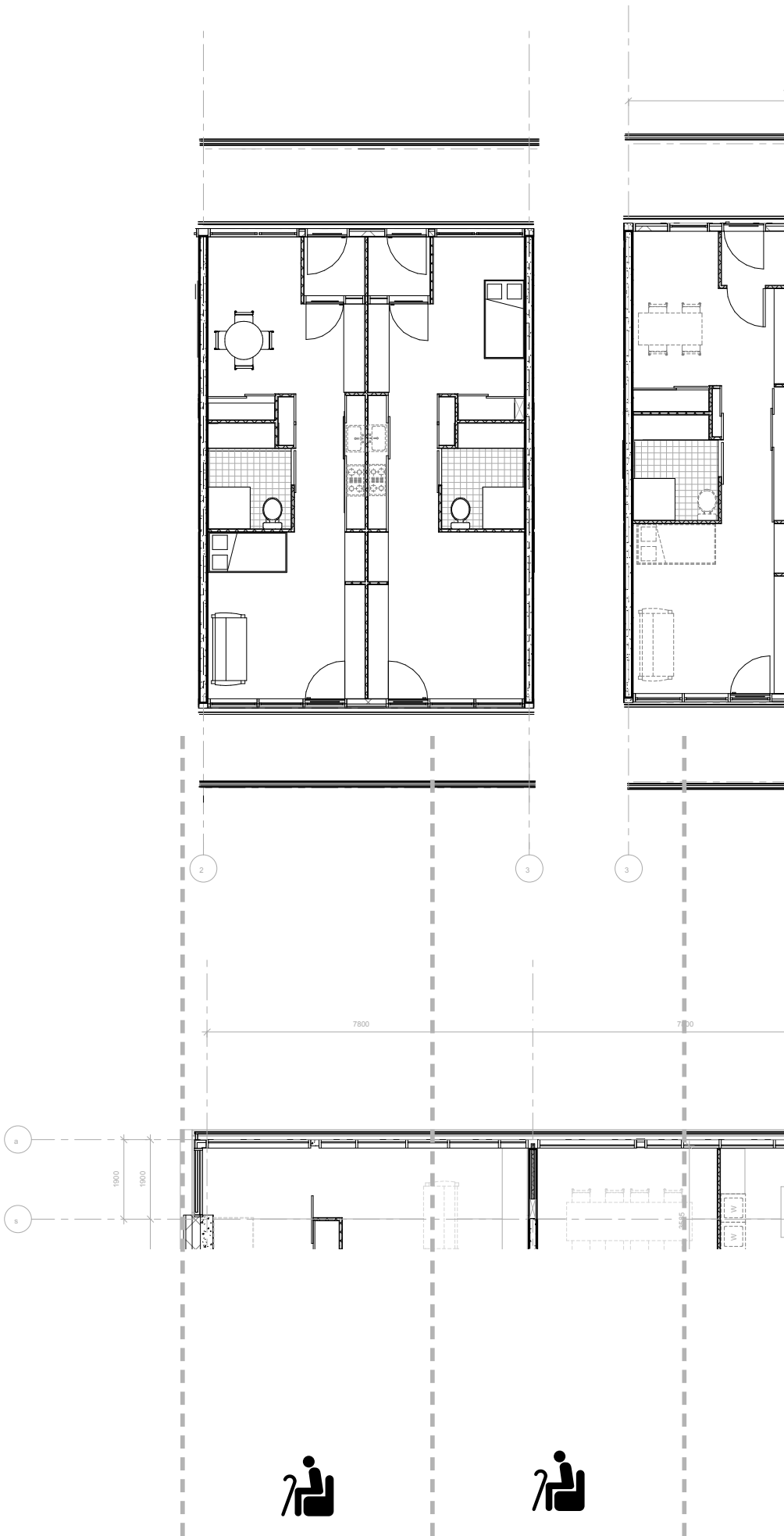


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SENIOR
LIVING GROUP

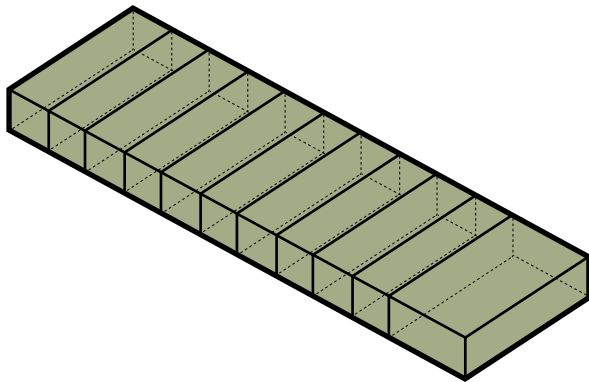


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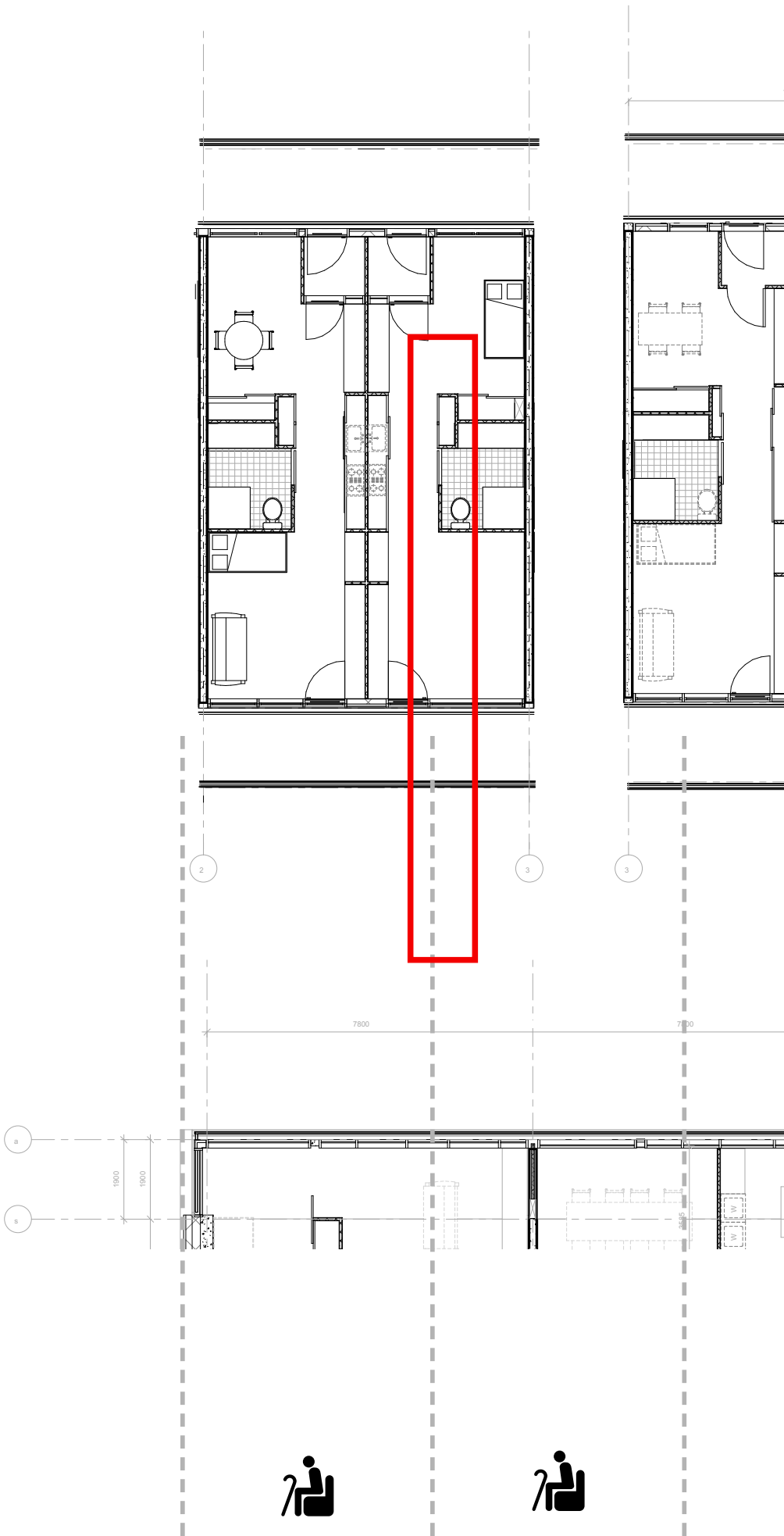


DESIGN

SENIOR
LIVING GROUP



DESIGN



DESIGN

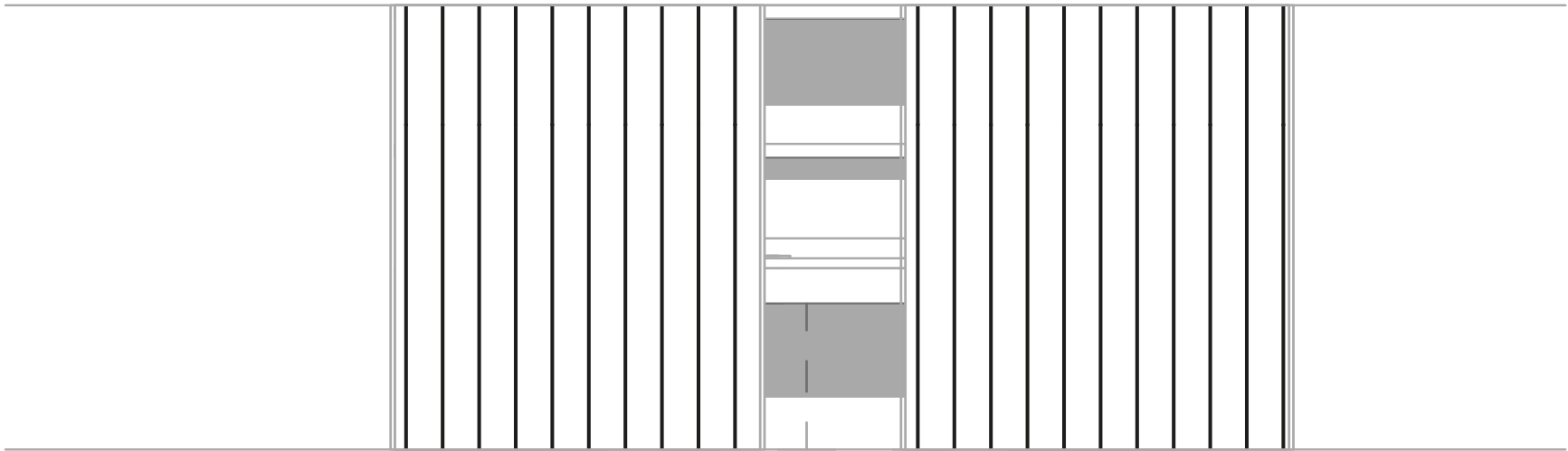
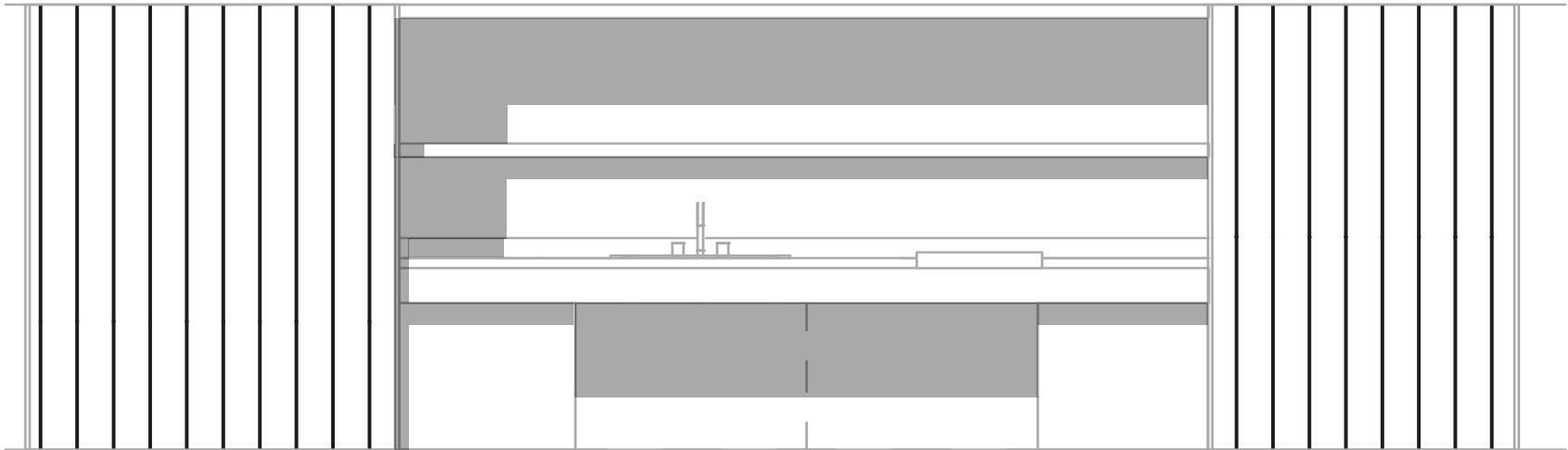
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DESIGN

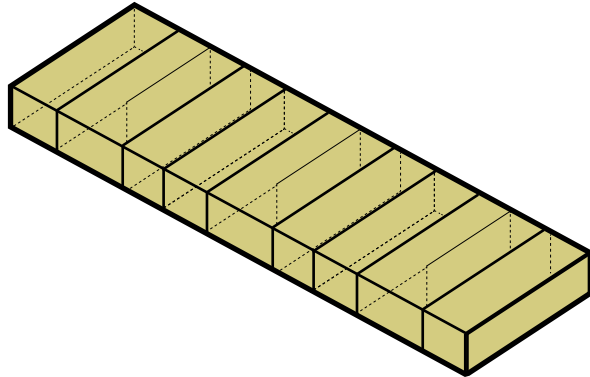
DESIGN

WHEELCHAIR FRIENDLY
KITCHEN IS OPTIONAL
IN ALL APARTMENTS

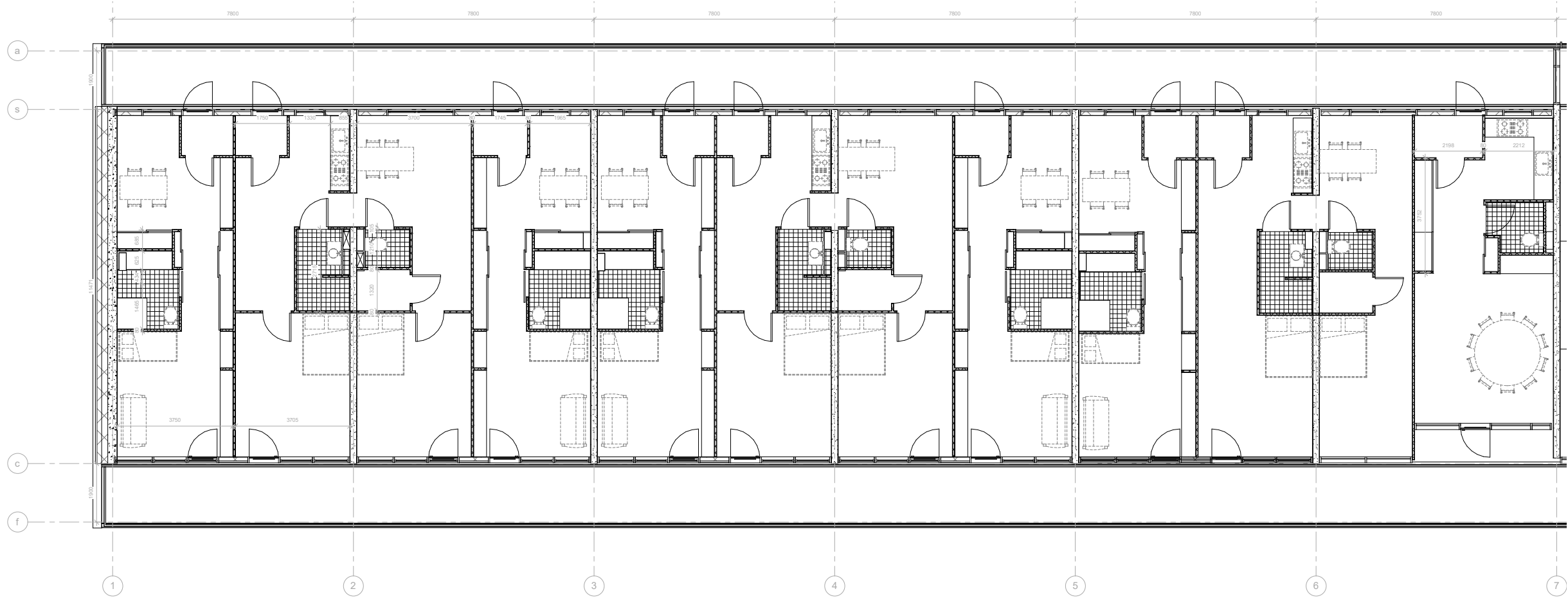


LIVING WITH STUDENTS

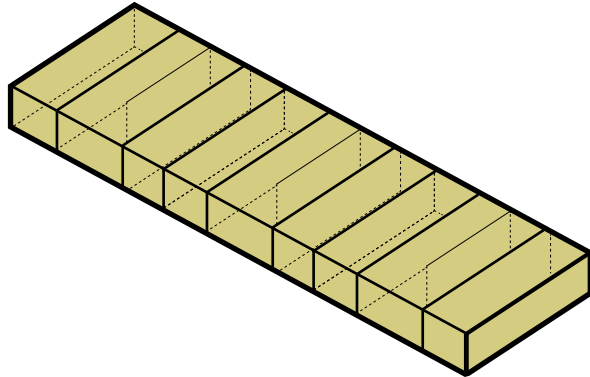
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DESIGN

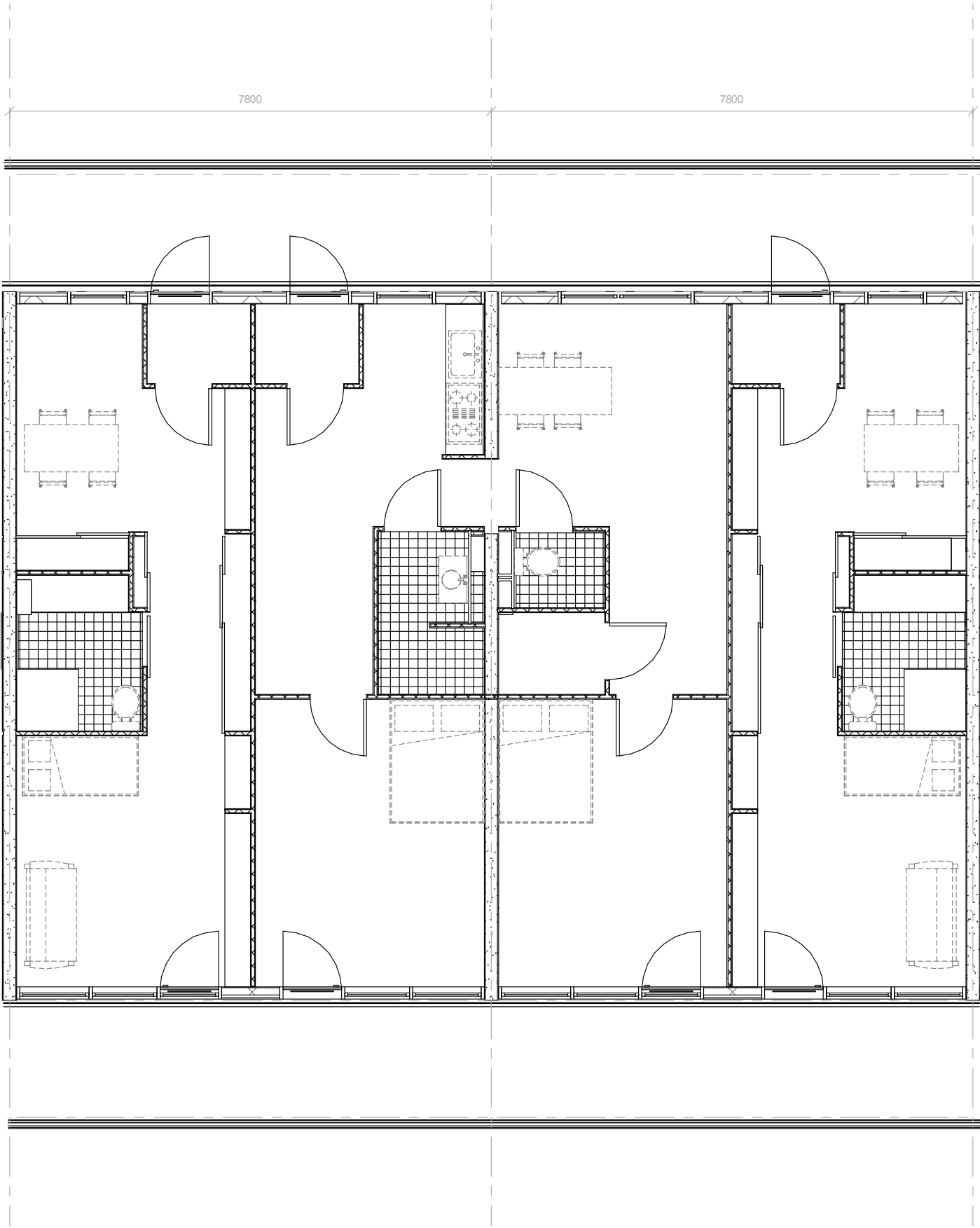


LIVING WITH
STUDENTS

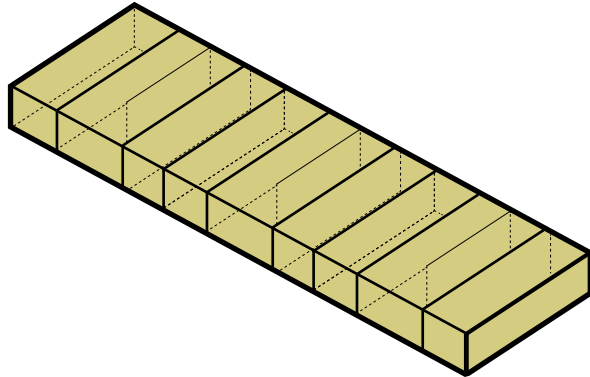


DESIGN

DESIGN

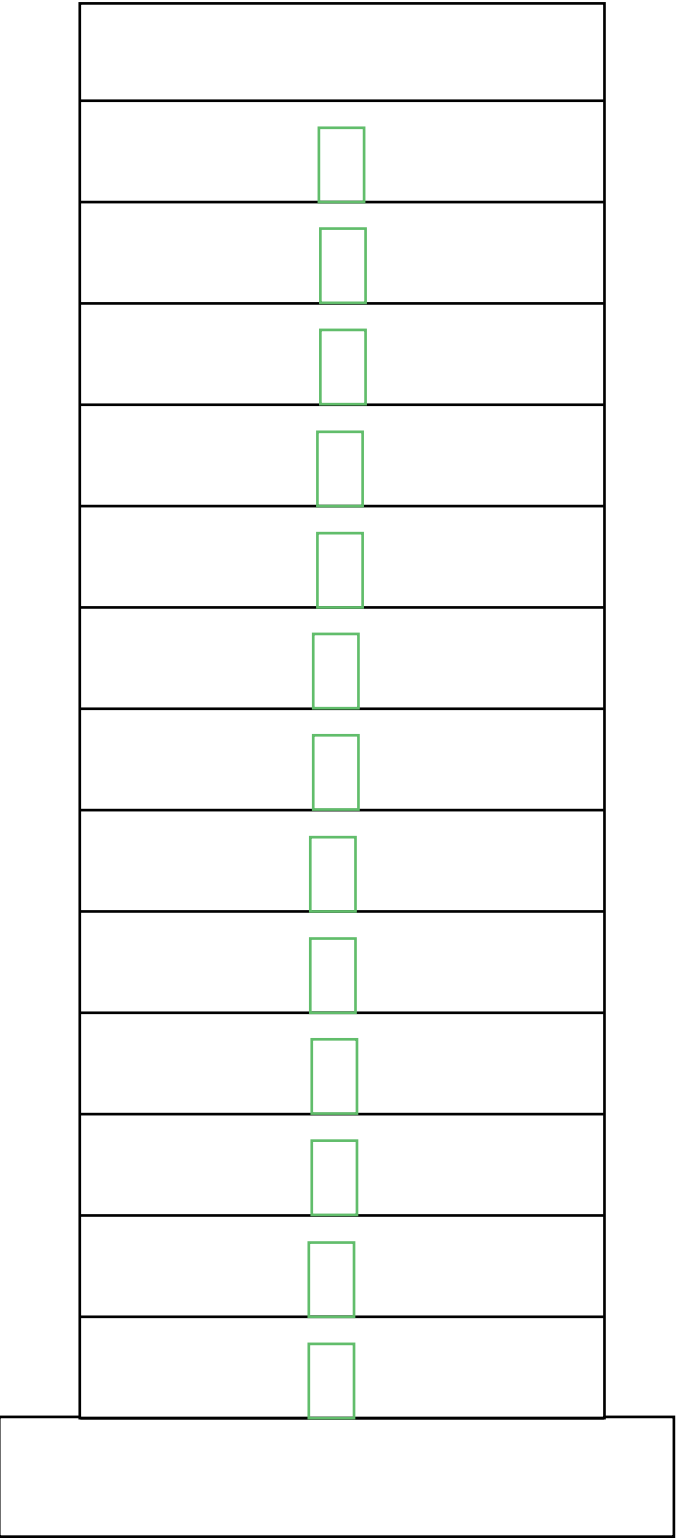
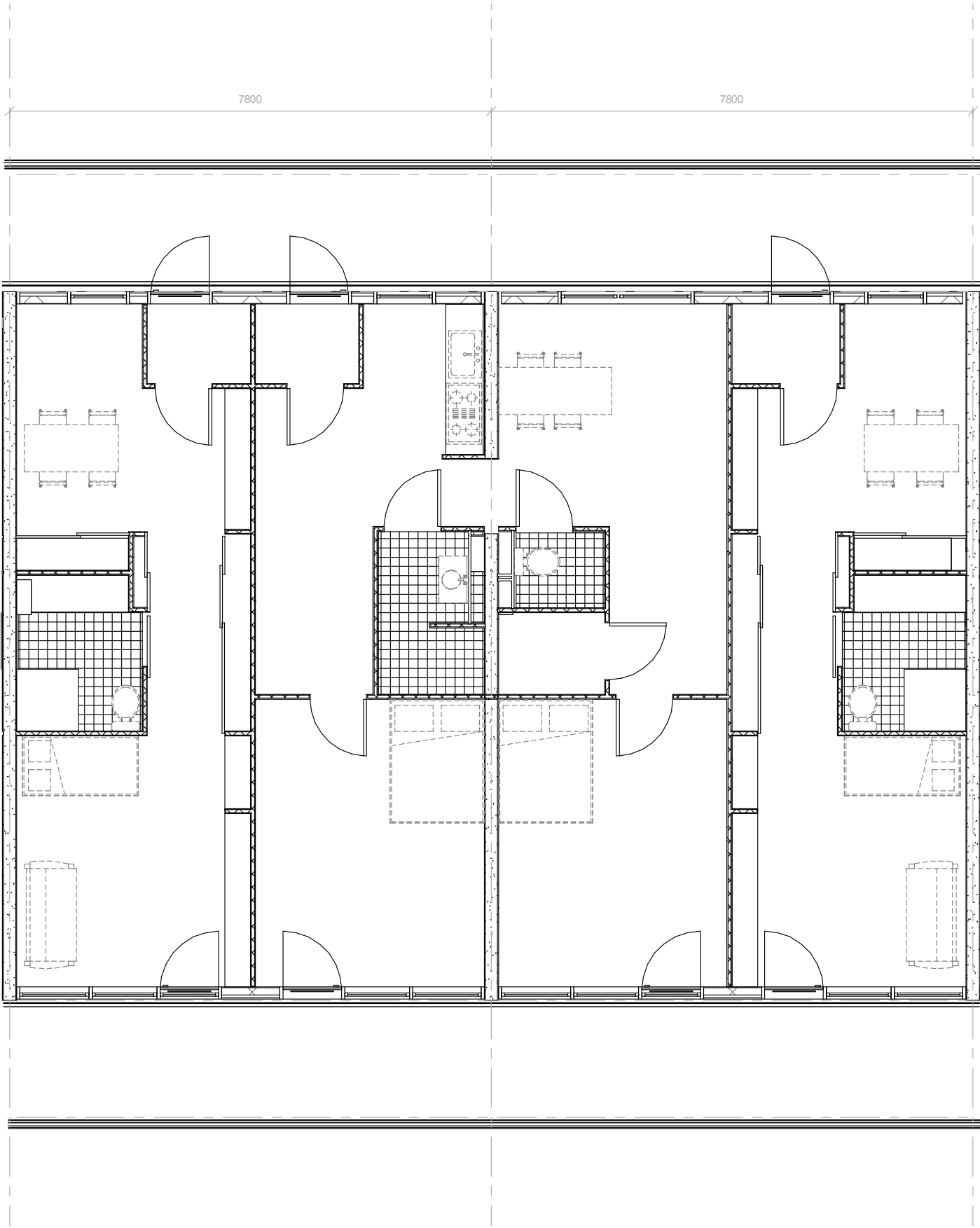


LIVING WITH
STUDENTS

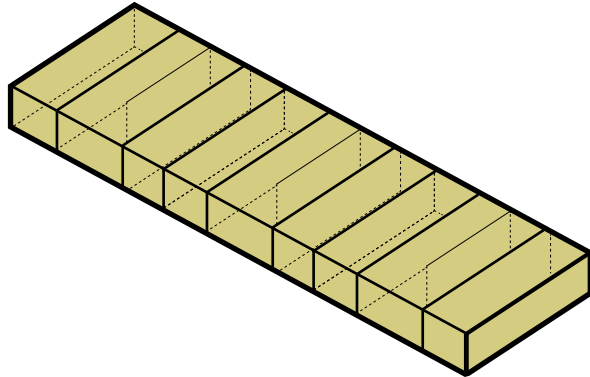


DESIGN

DESIGN

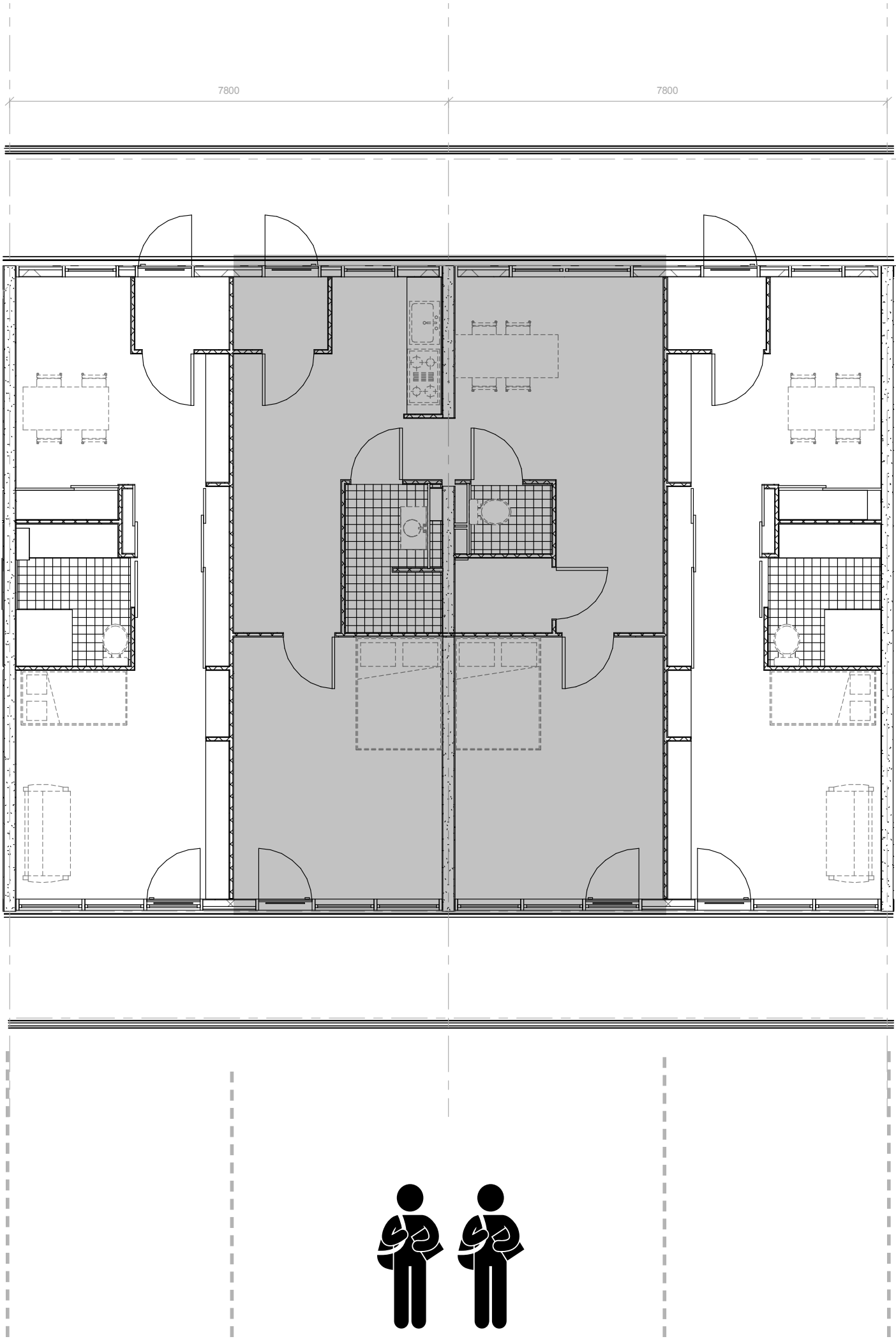


LIVING WITH
STUDENTS

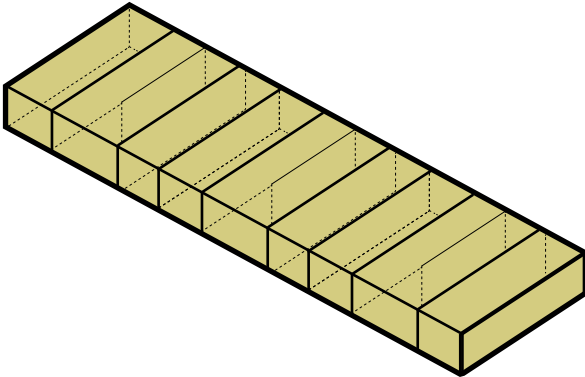


DESIGN

DESIGN

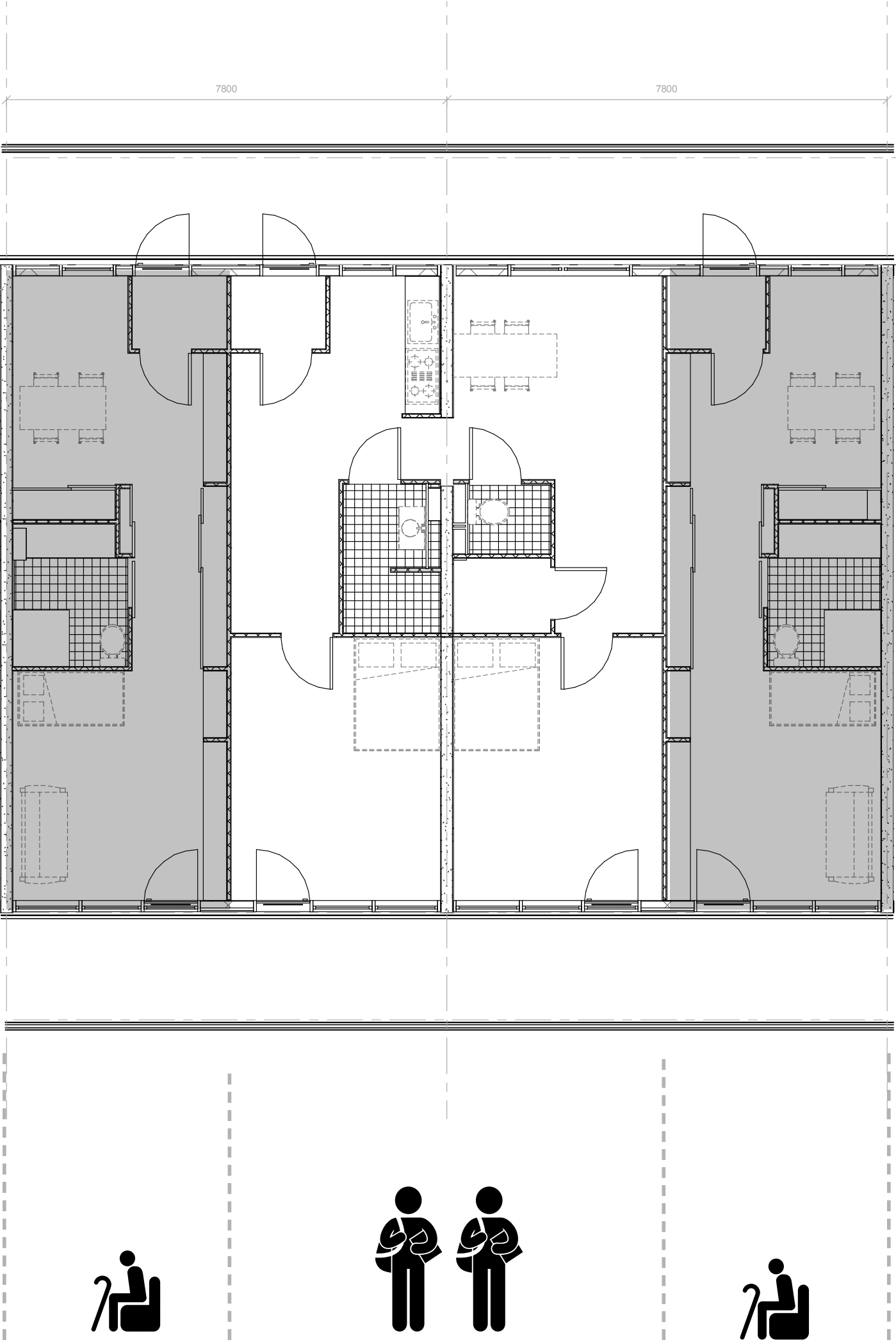


LIVING WITH STUDENTS



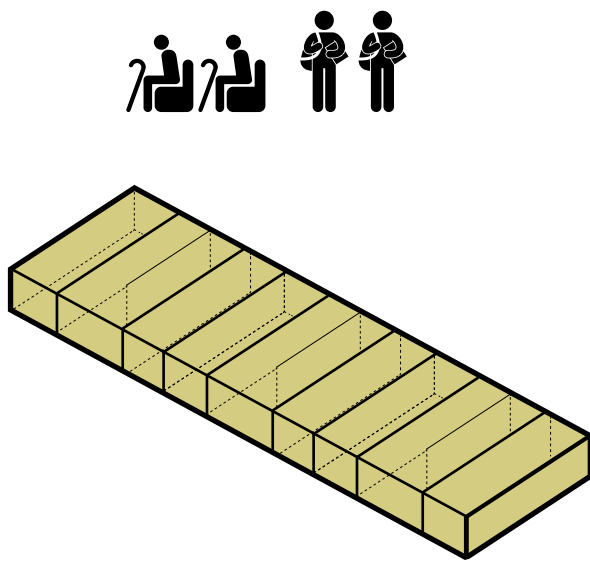
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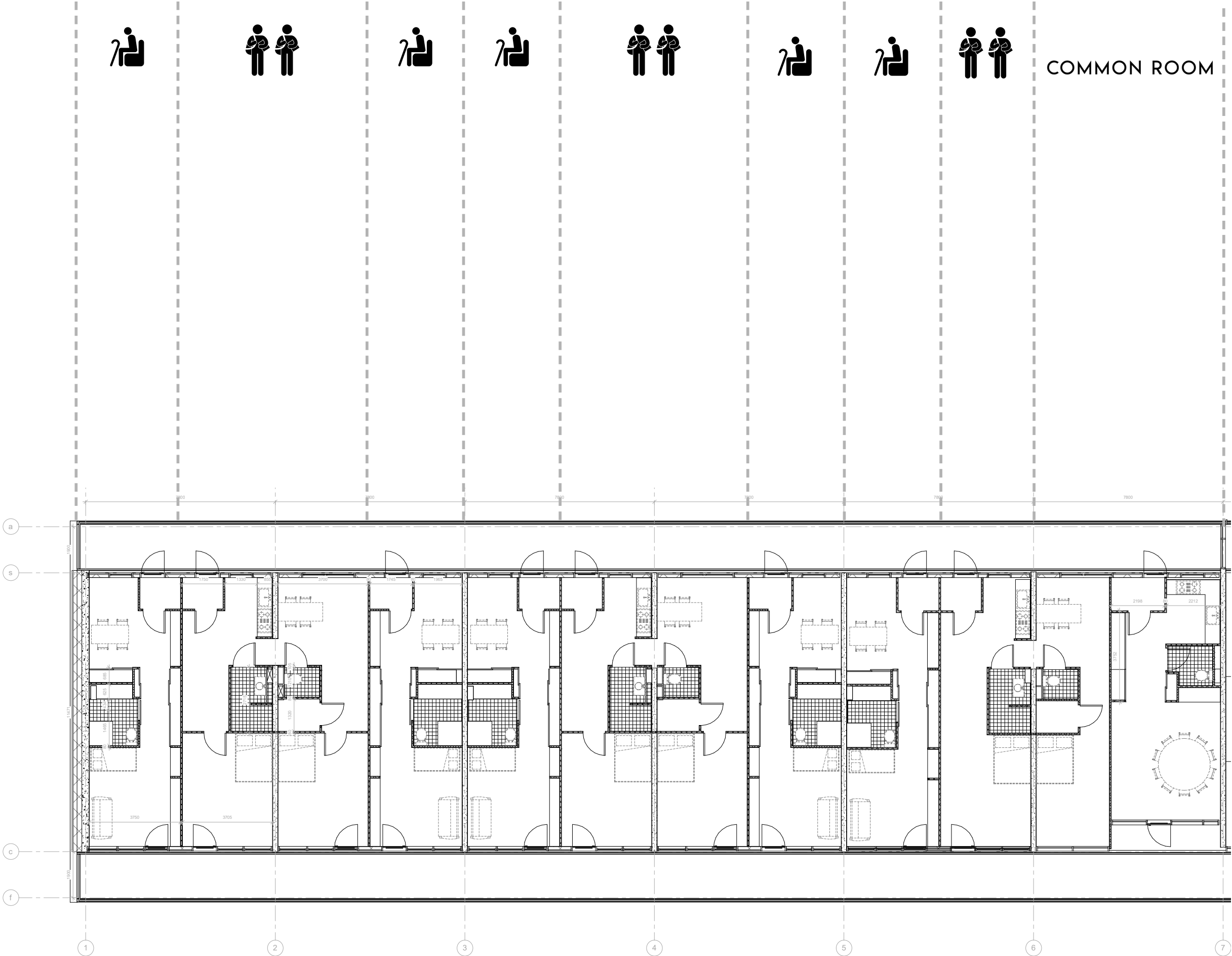


DESIGN

LIVING WITH STUDENTS



DESIGN



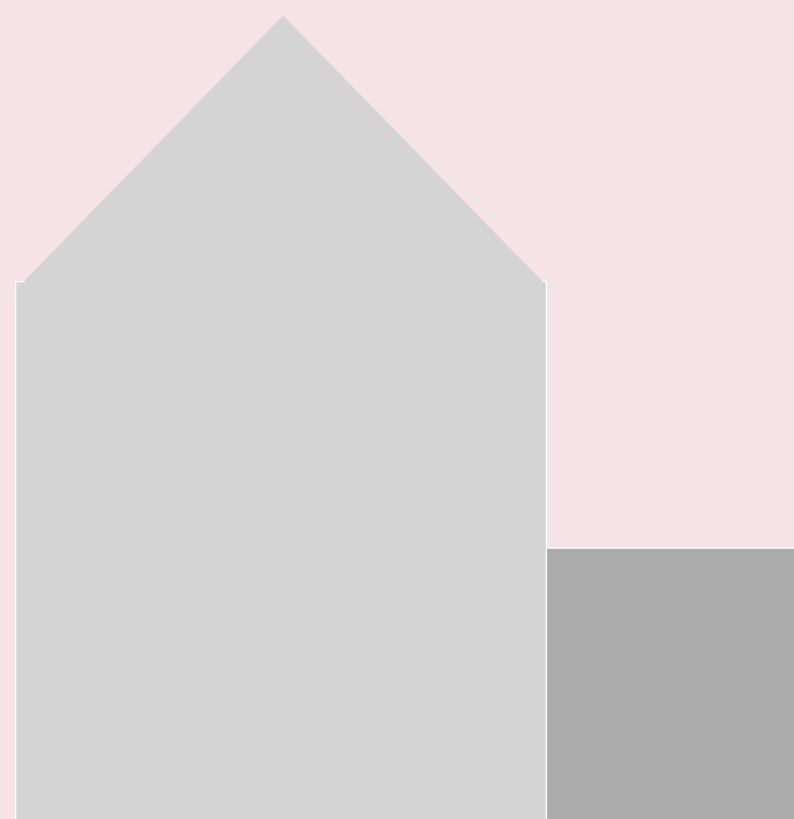


D & E

KANGAROO
DWELLING H.

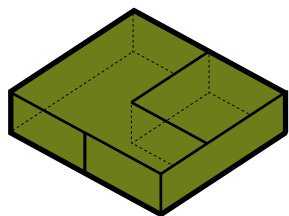
KANGAROO
DWELLING V.

KANGAROO
DWELLING



KANGAROO
DWELLING

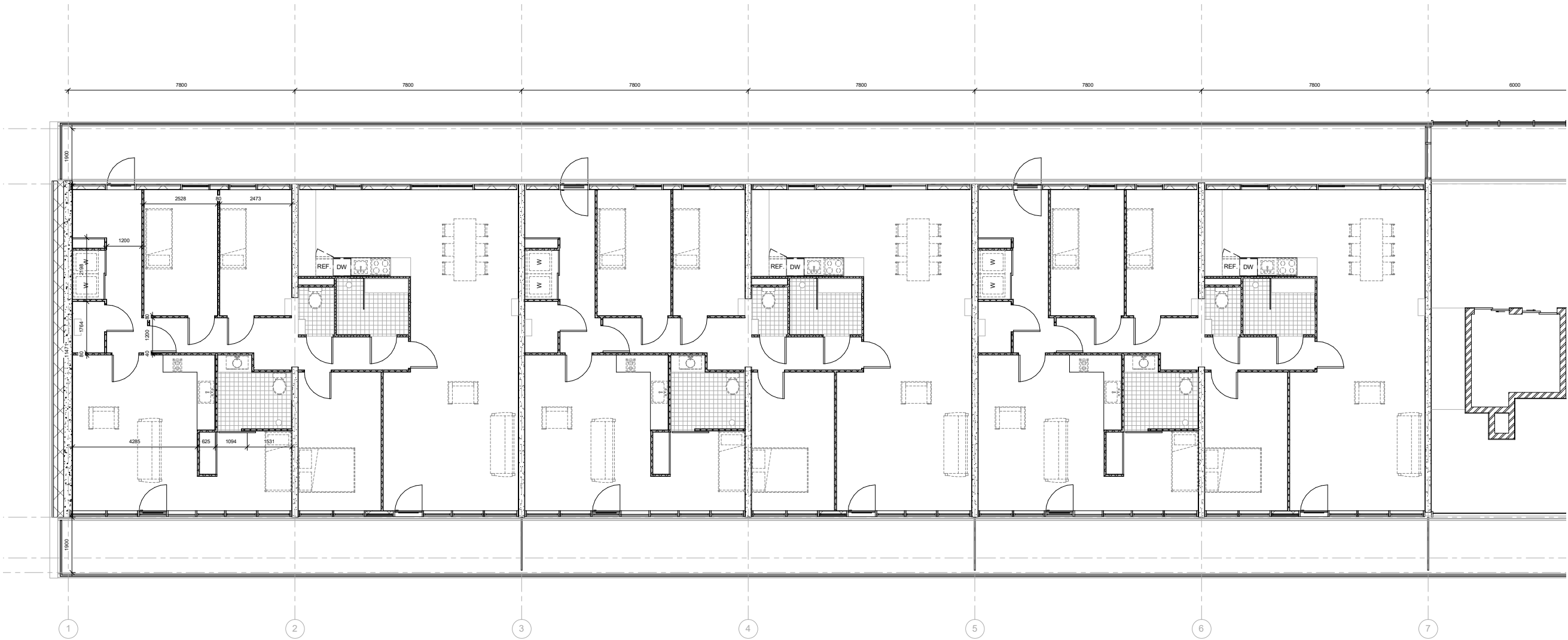
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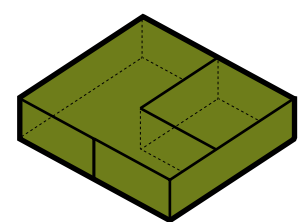
1 beuk, 2 story
2 beuk, 1 story

3 - 4 person
family/ 1 senior

DESIGN



KANGAROO
DWELLING

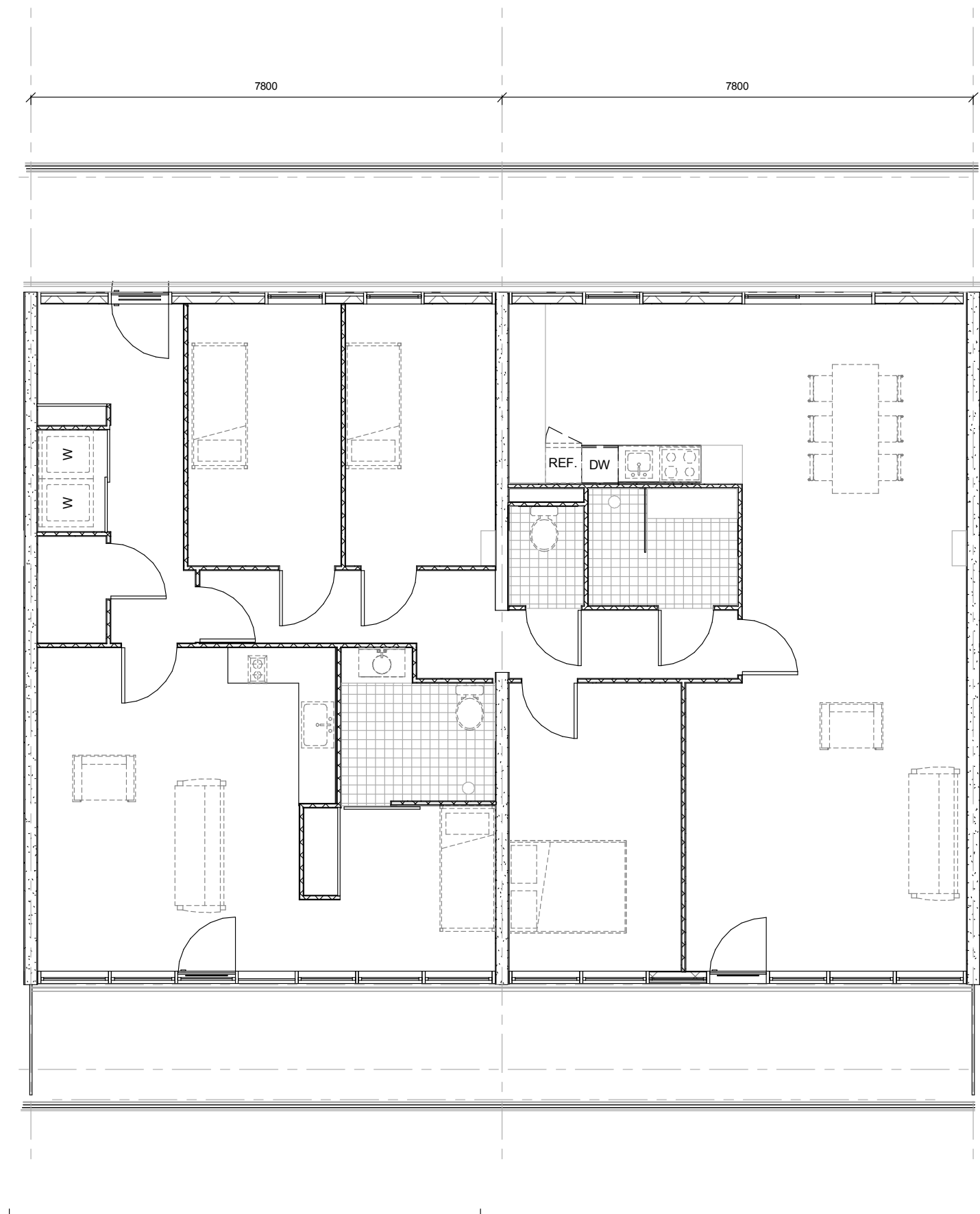


1 beuk, 2 story
2 beuk, 1 story

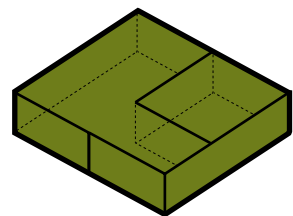
3 - 4 person
family/ 1 senior

DESIGN

DESIGN



KANGAROO
DWELLING

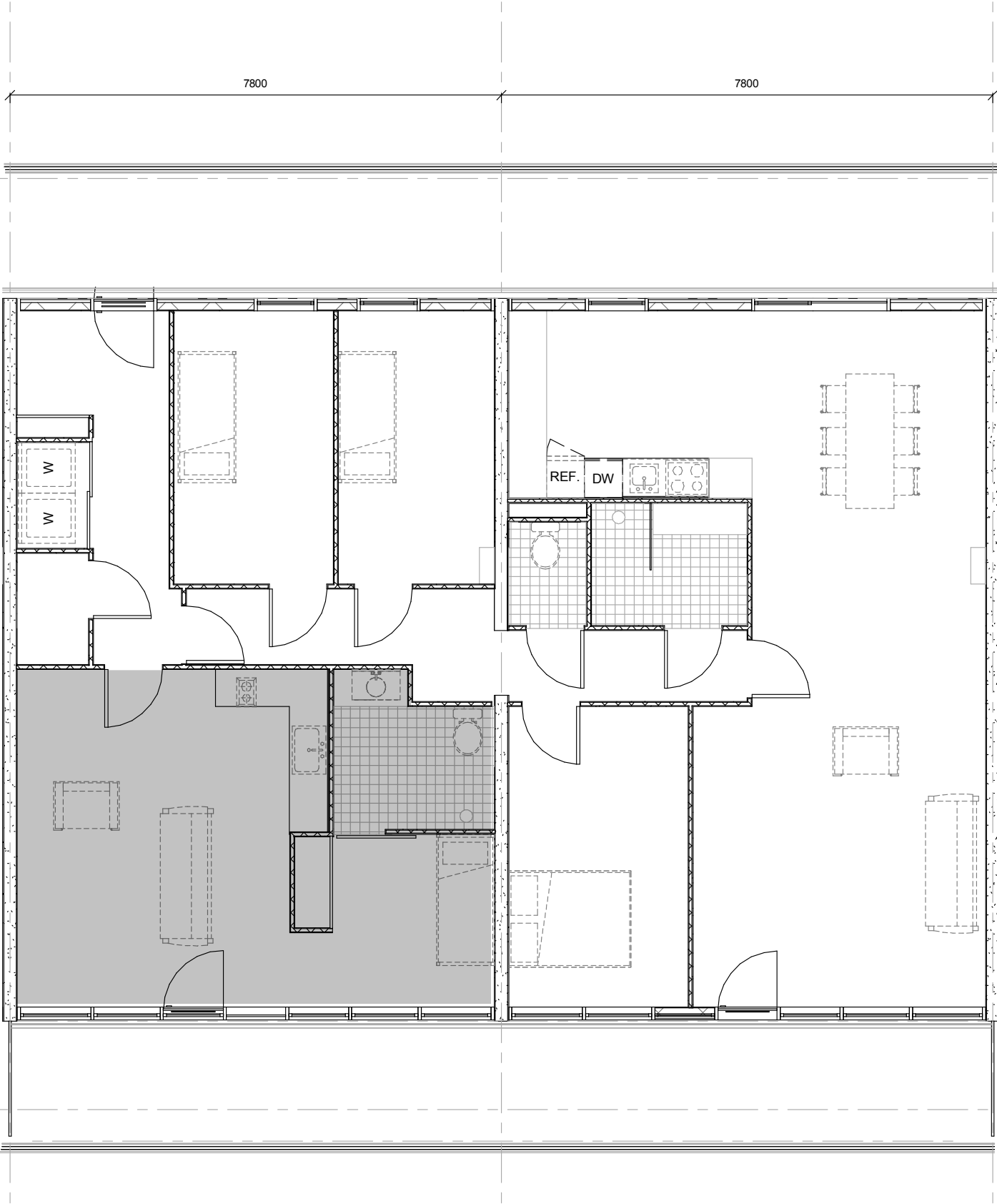


1 beuk, 2 story
2 beuk, 1 story

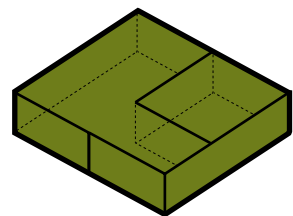
3 - 4 person
family/ 1 senior

DESIGN

DESIGN



KANGAROO
DWELLING



1 beuk, 2 story
2 beuk, 1 story

3 - 4 person
family/ 1 senior

DESIGN

DESIGN

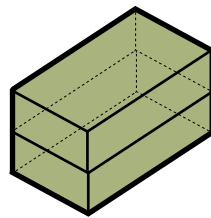


DESIGN



KANGAROO
DWELLING

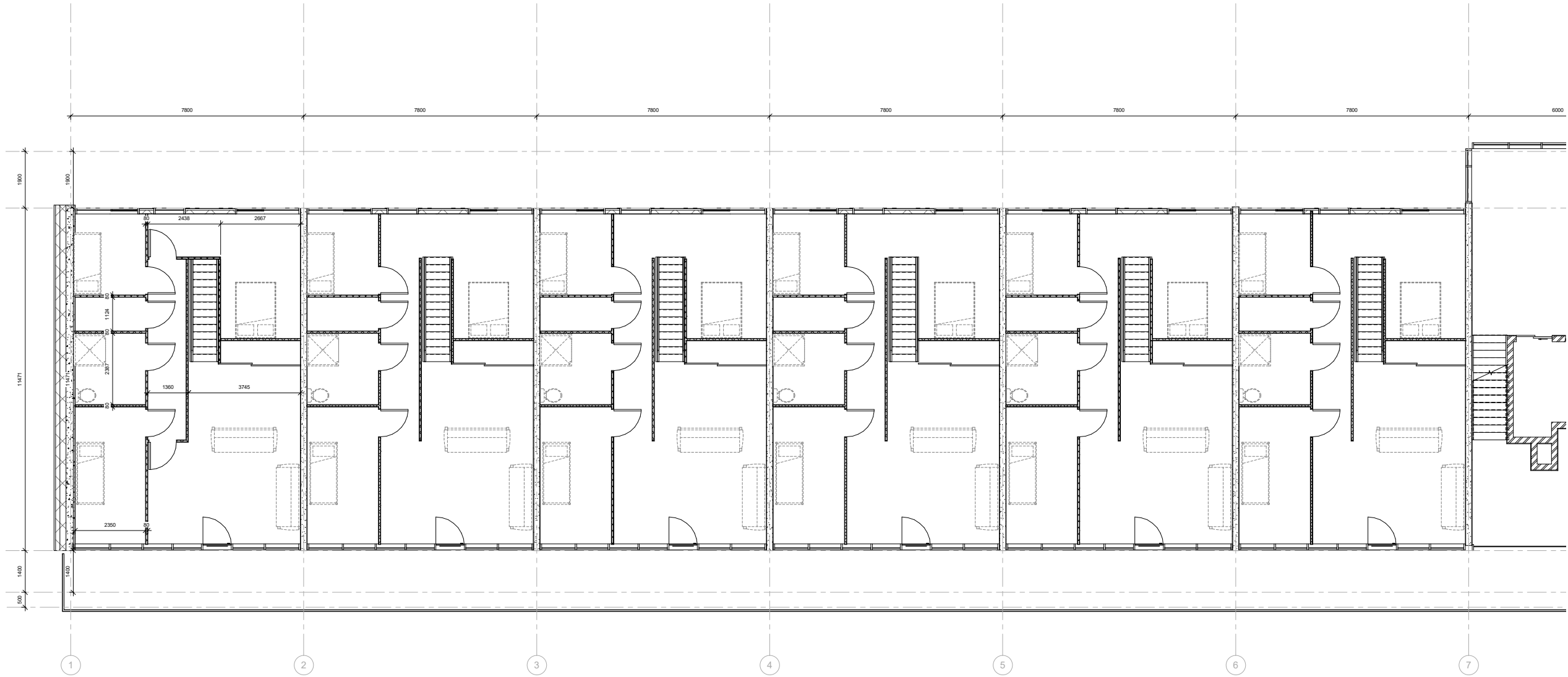
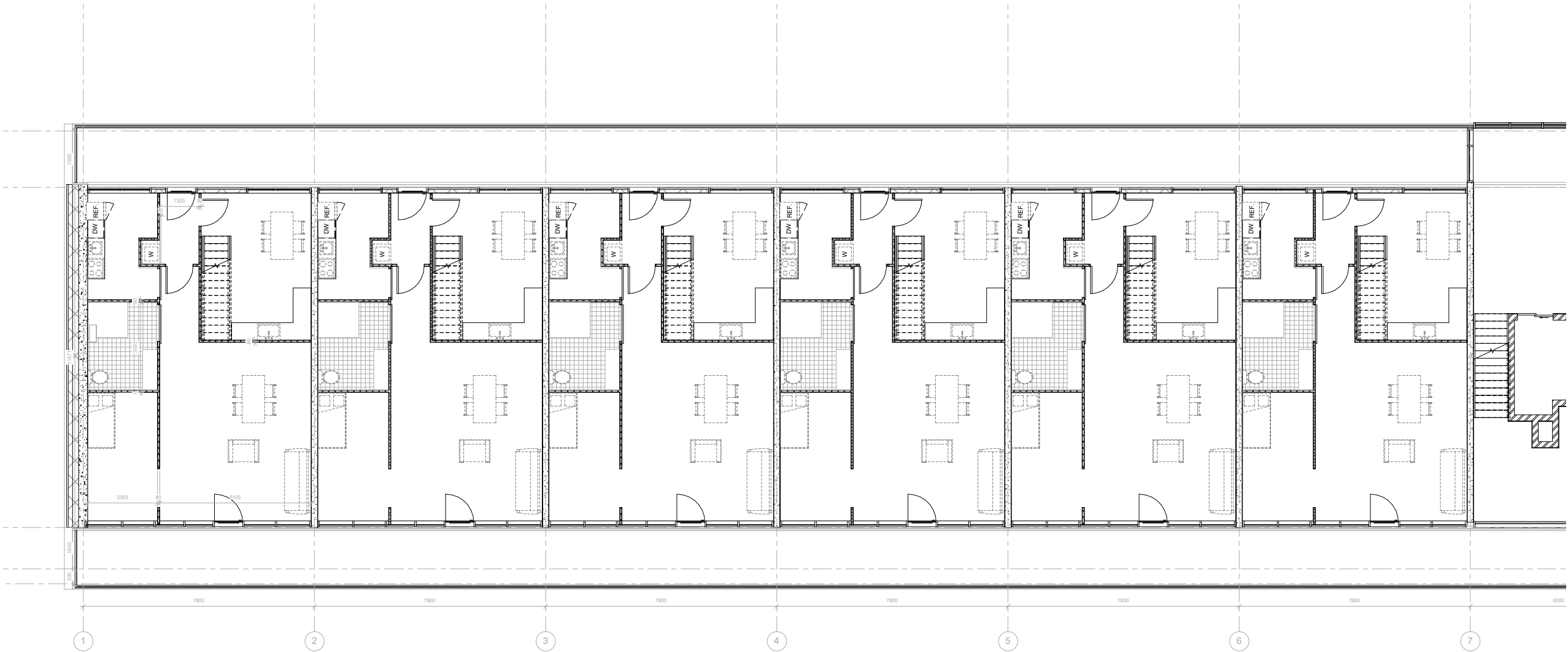
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1 beuk, 2 story
2 beuk, 1 story

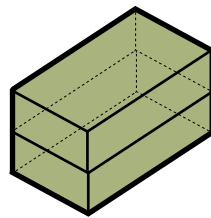
3 - 4 person
family/ 1 senior

DESIGN



KANGAROO
DWELLING

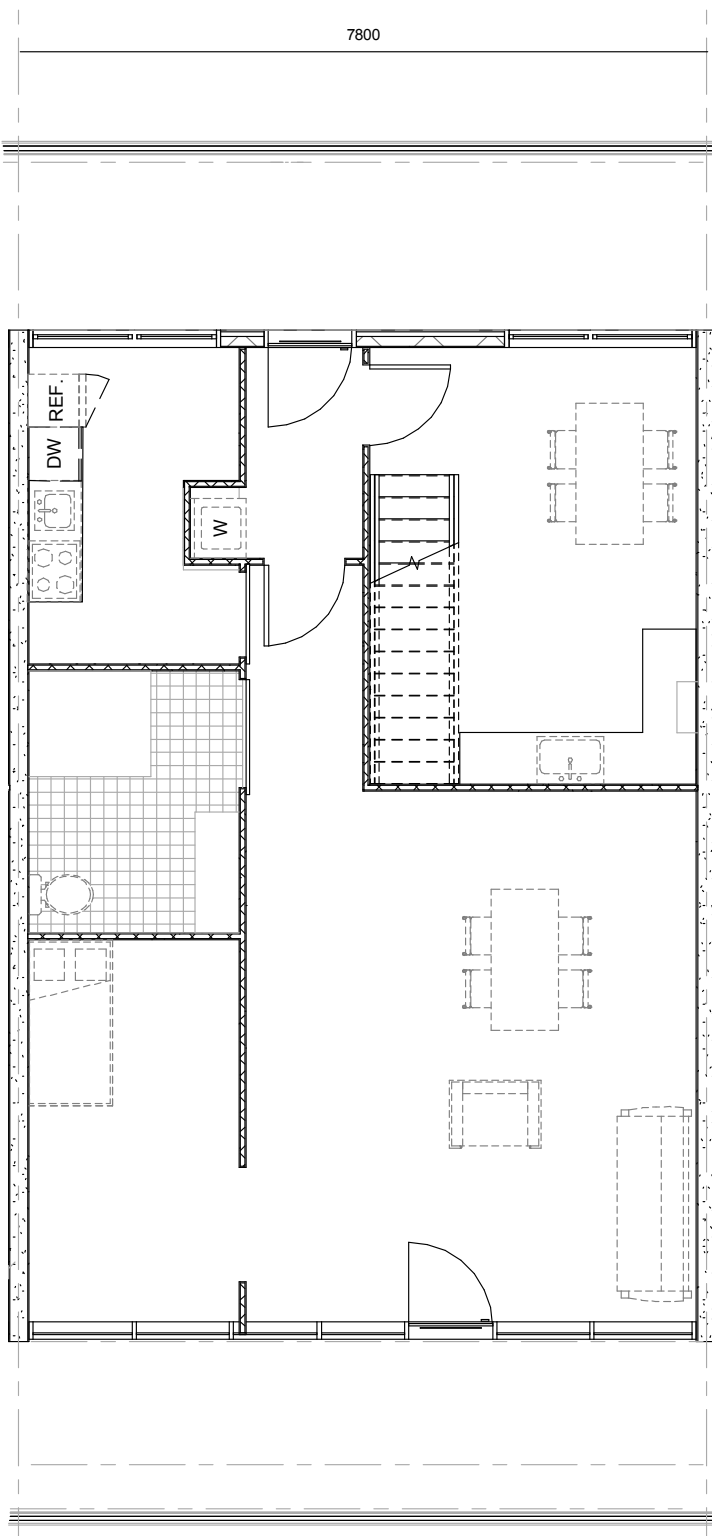
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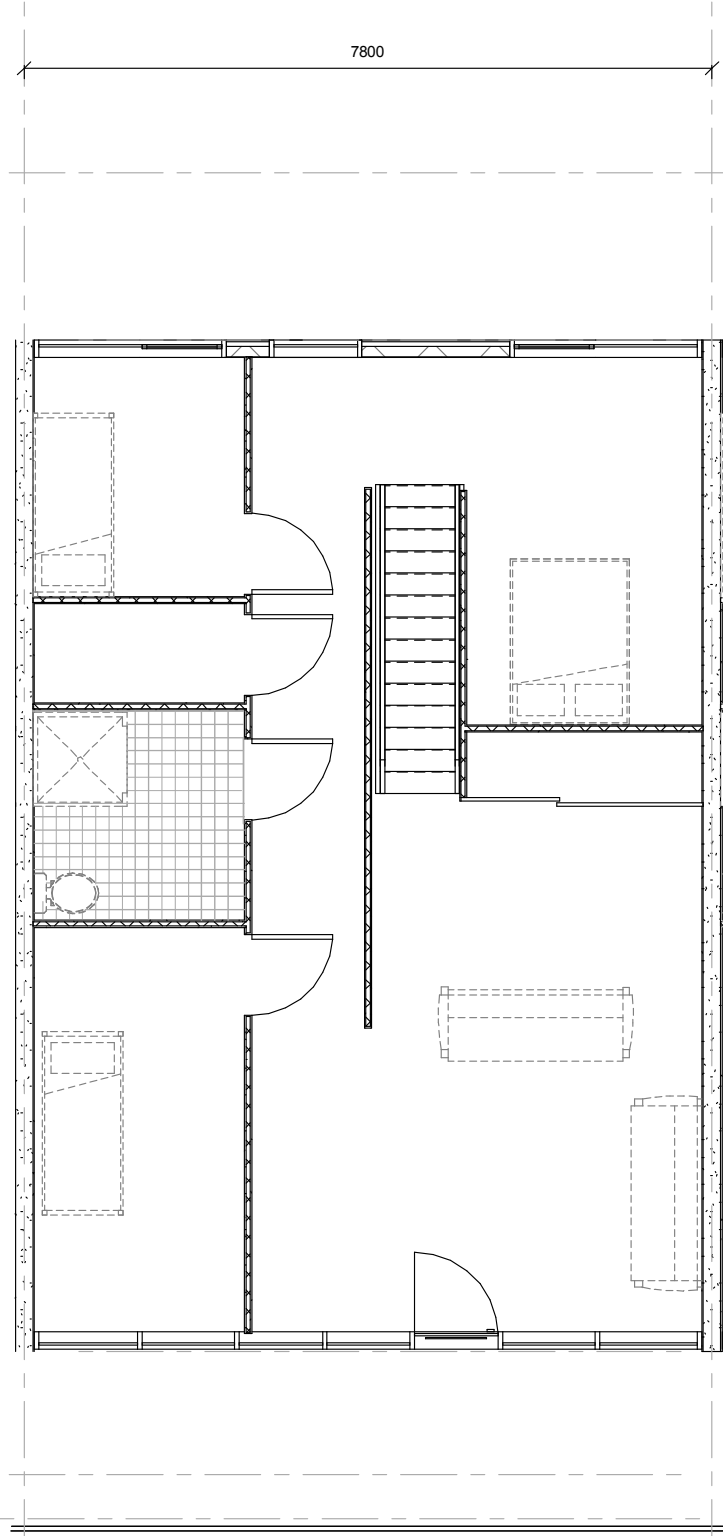
1 beuk, 2 story
2 beuk, 1 story

3 - 4 person
family/ 1 senior

DESIGN



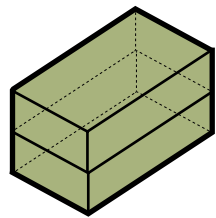
X



X+1

KANGAROO
DWELLING

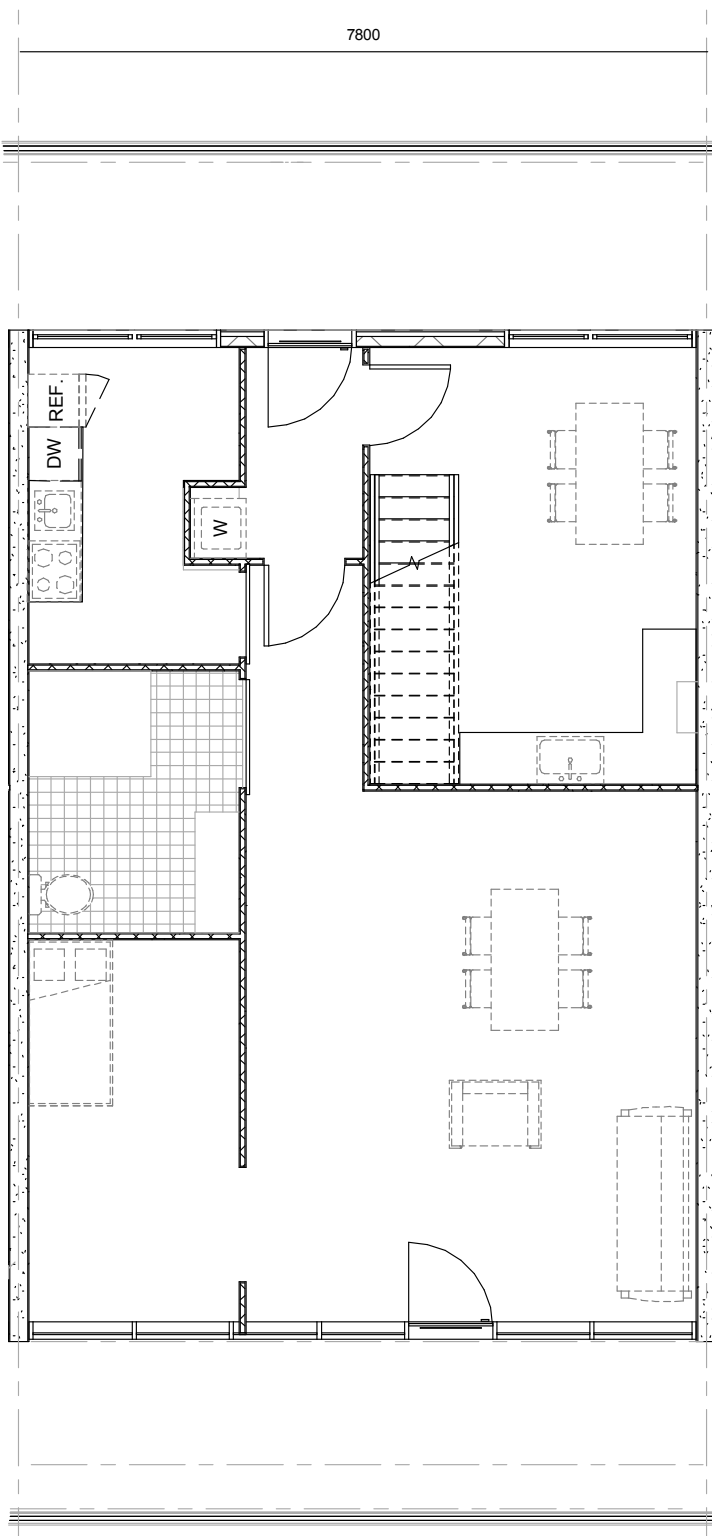
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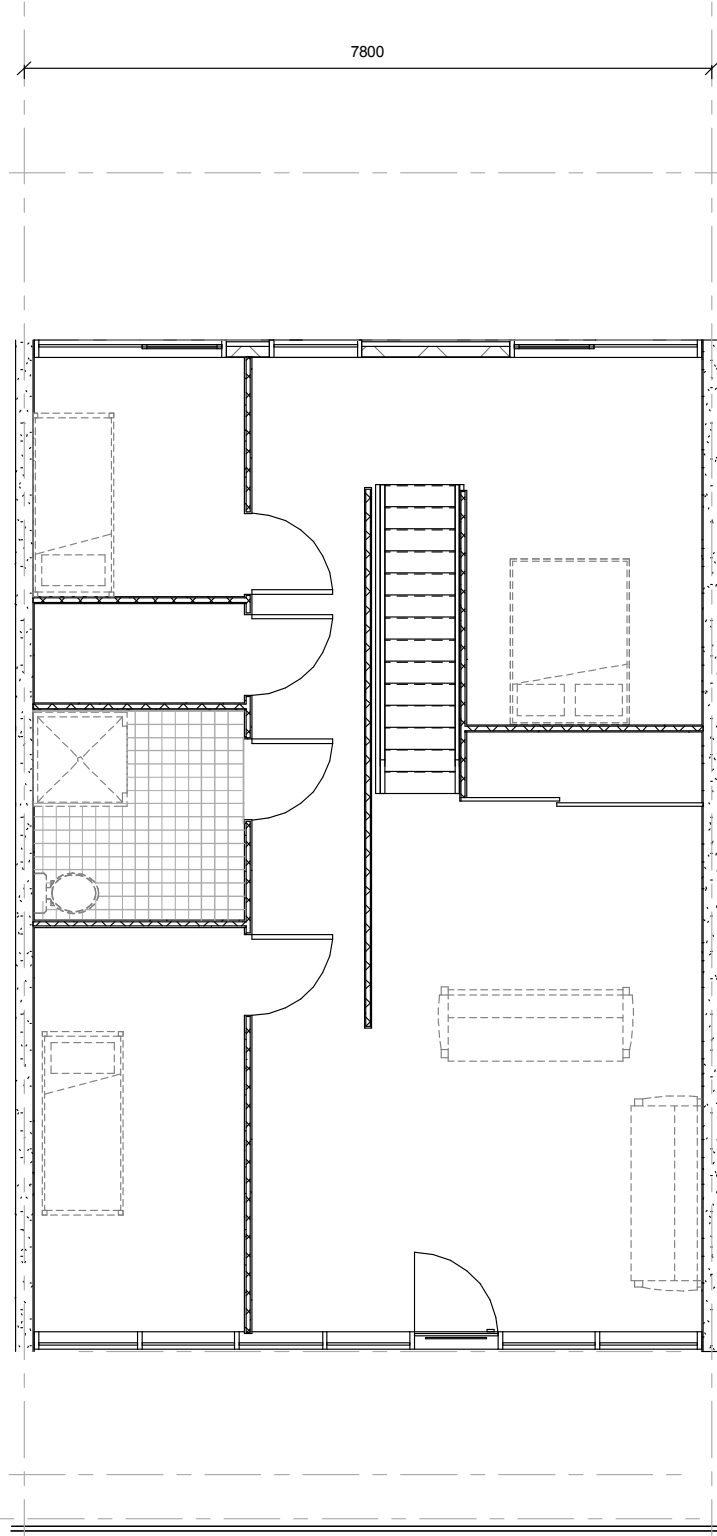
1 beuk, 2 story
2 beuk, 1 story

3 - 4 person
family/ 1 senior

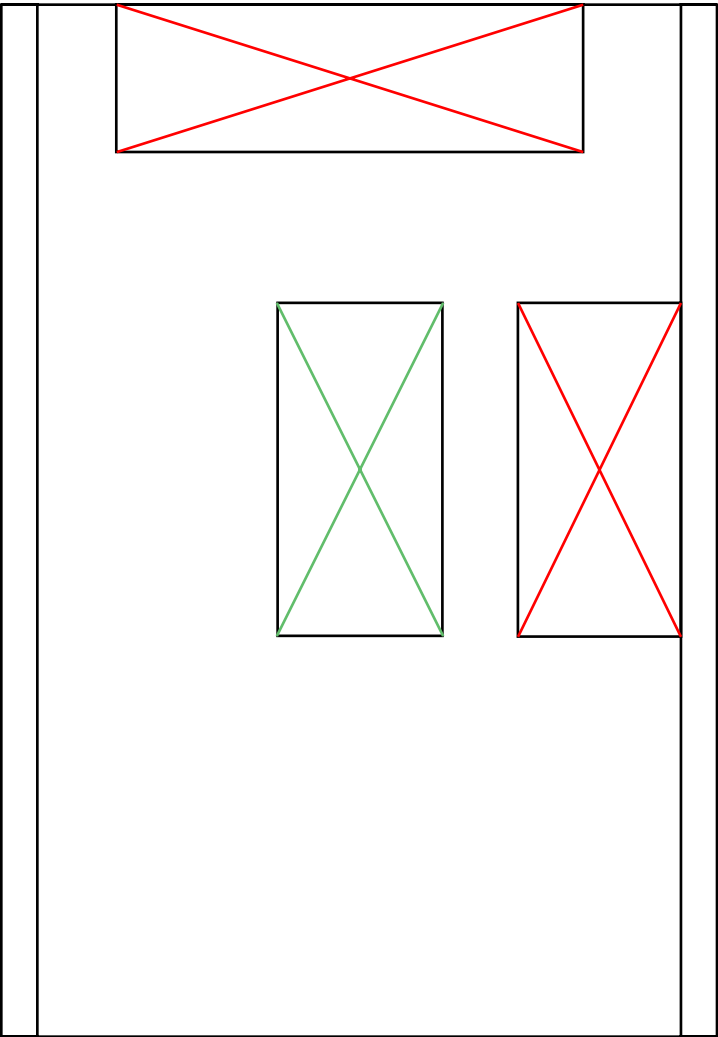
DESIGN



X

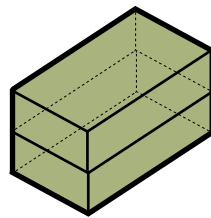


X+1



KANGAROO
DWELLING

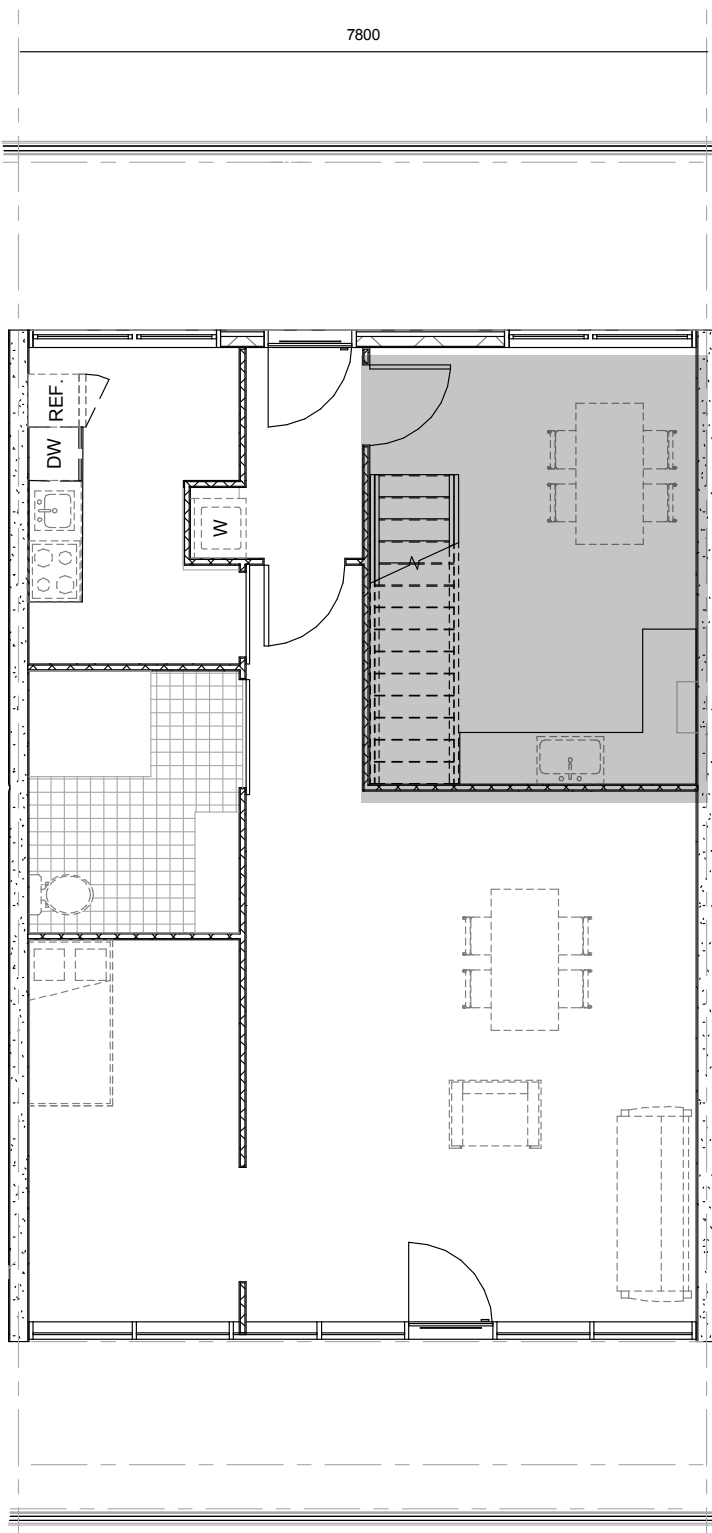
DESIGN



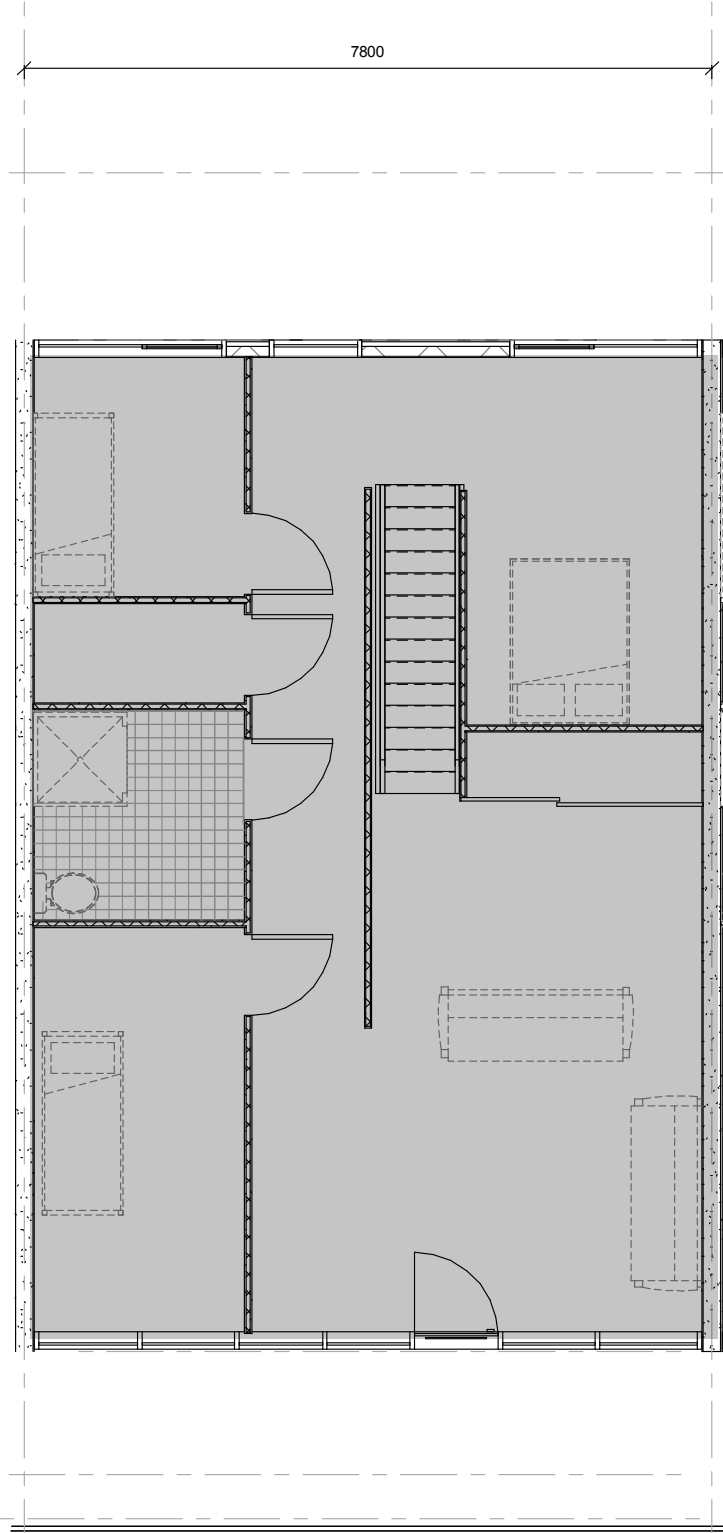
1 beuk, 2 story
2 beuk, 1 story

3 - 4 person
family/ 1 senior

DESIGN



X



X+1



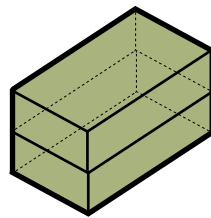
DESIGN

DESIGN



KANGAROO
DWELLING

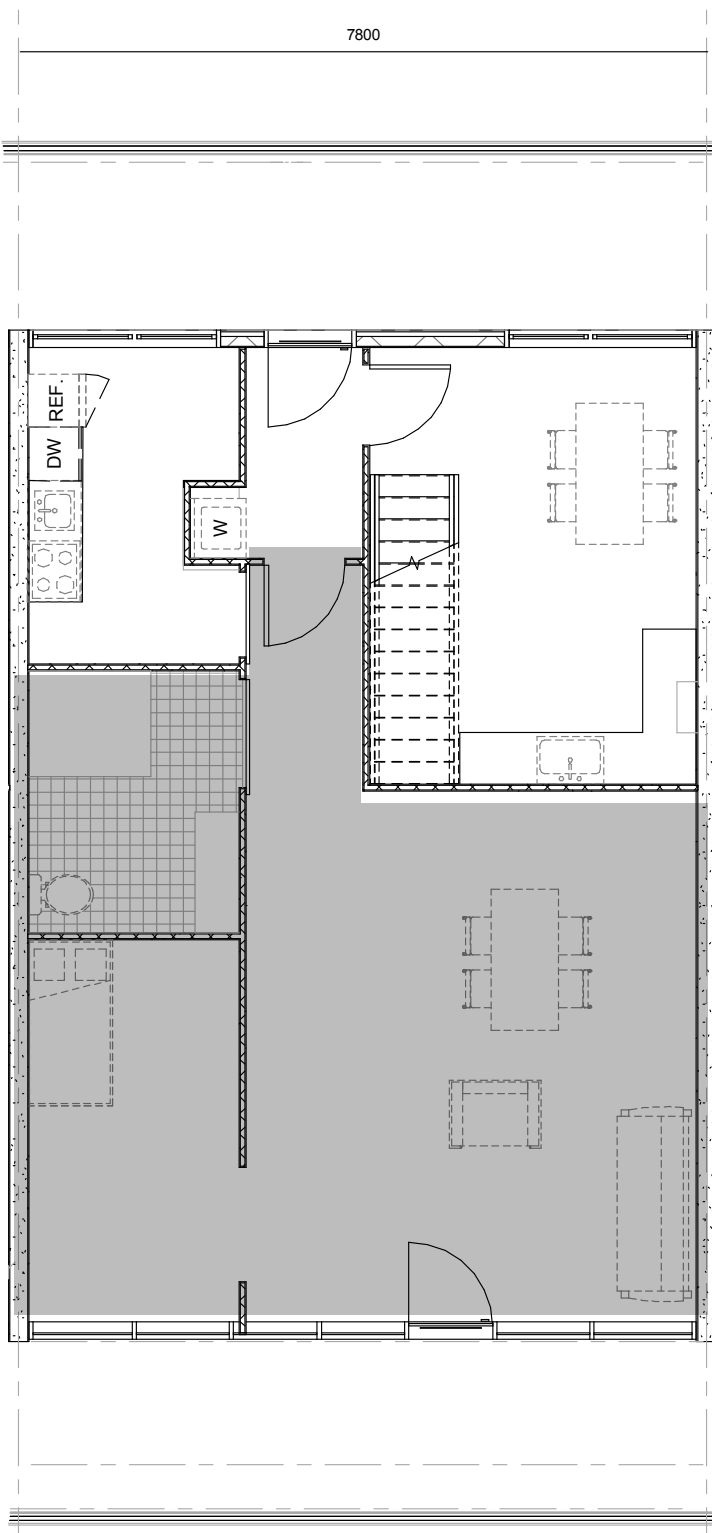
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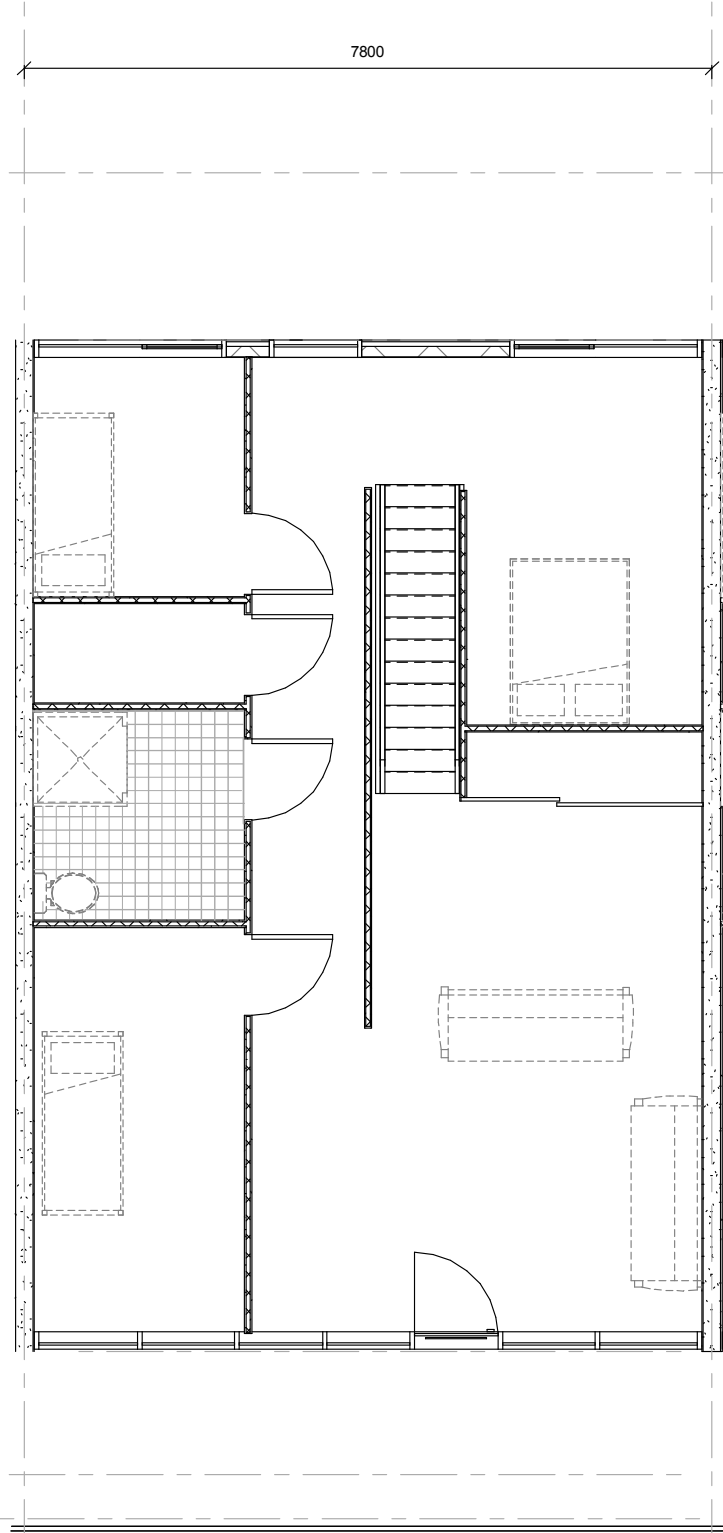
1 beuk, 2 story
2 beuk, 1 story

3 - 4 person
family/ 1 senior

DESIGN



X



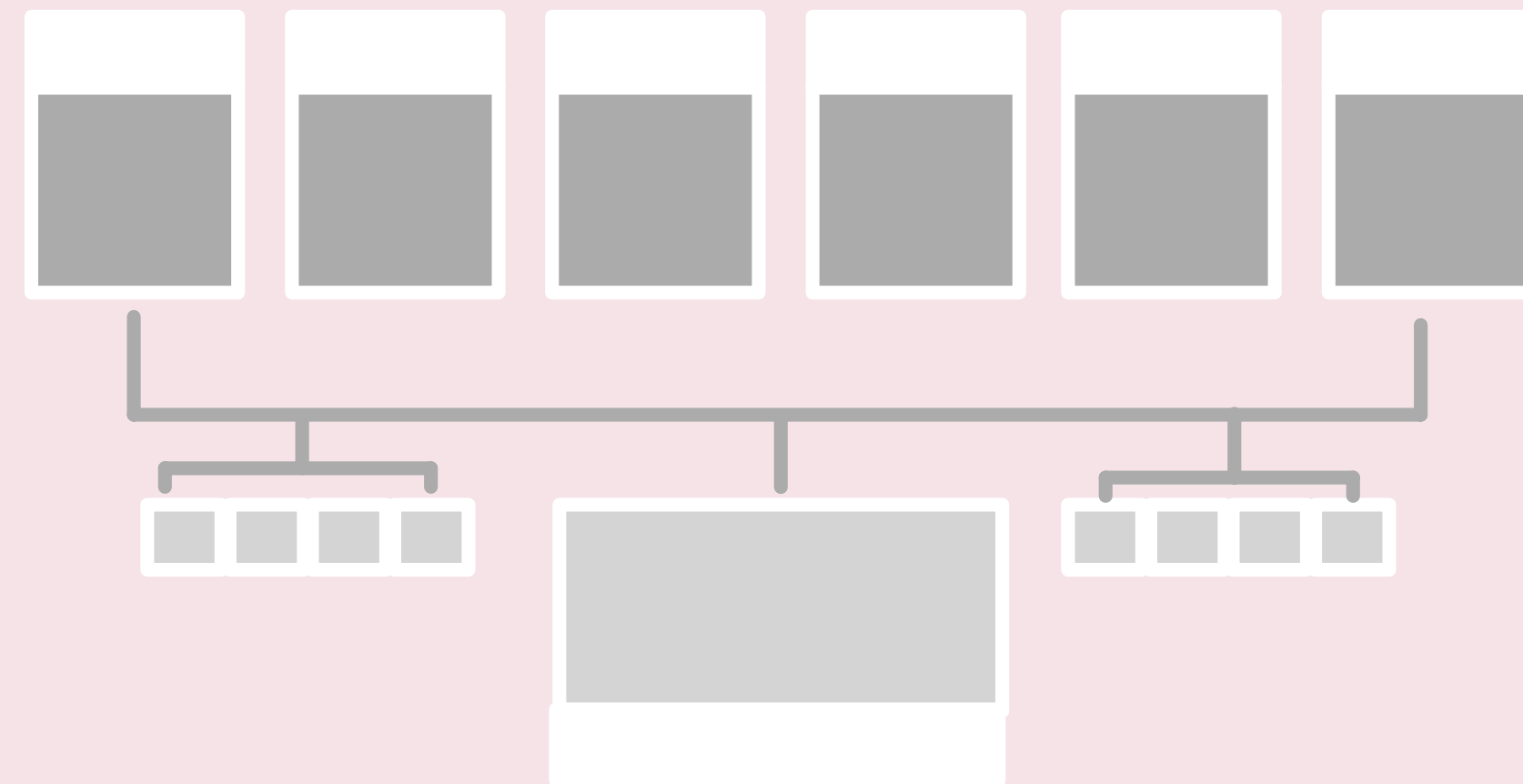
X+1





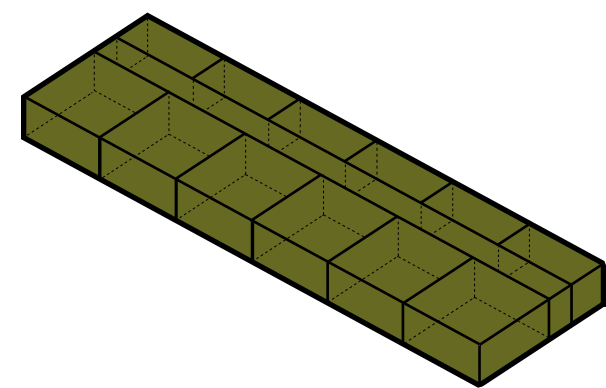
ASSISTED LIVING

ASSISTED LIVING



DESIGN

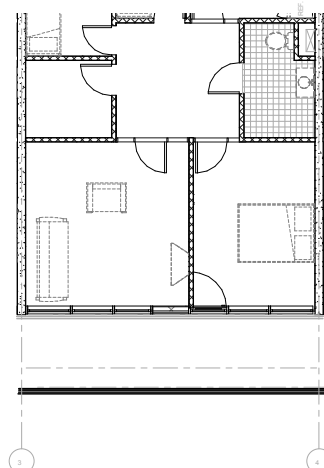
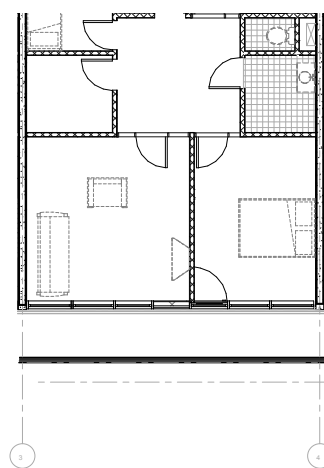
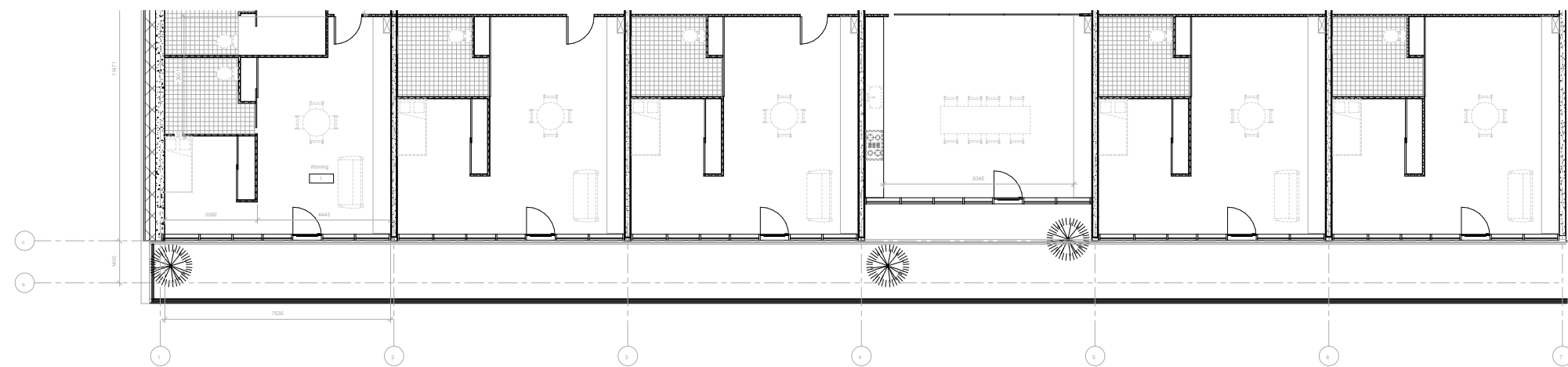
SMALL SCALE
LIVING



DESIGN

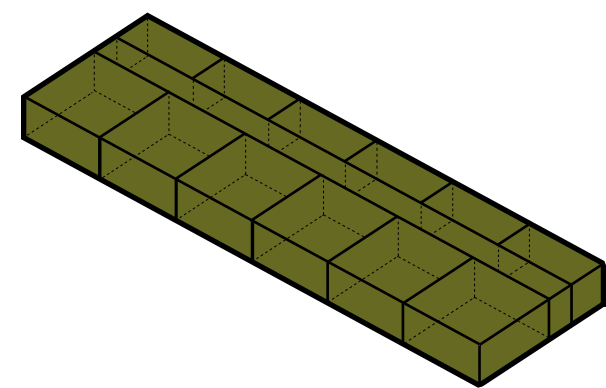
1/2 floor, 1 story

7 people who
need 24h care



DESIGN

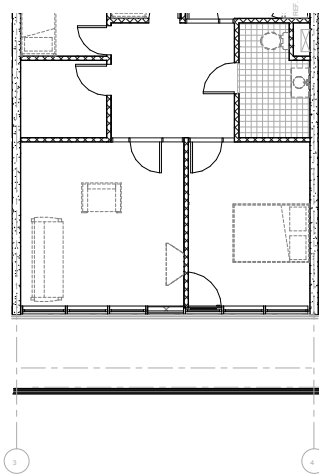
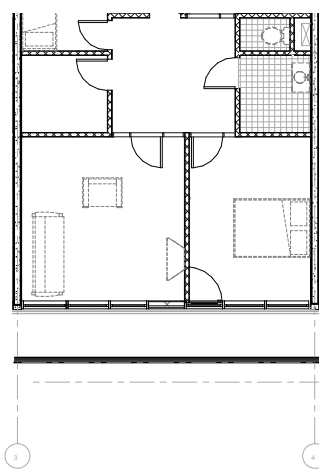
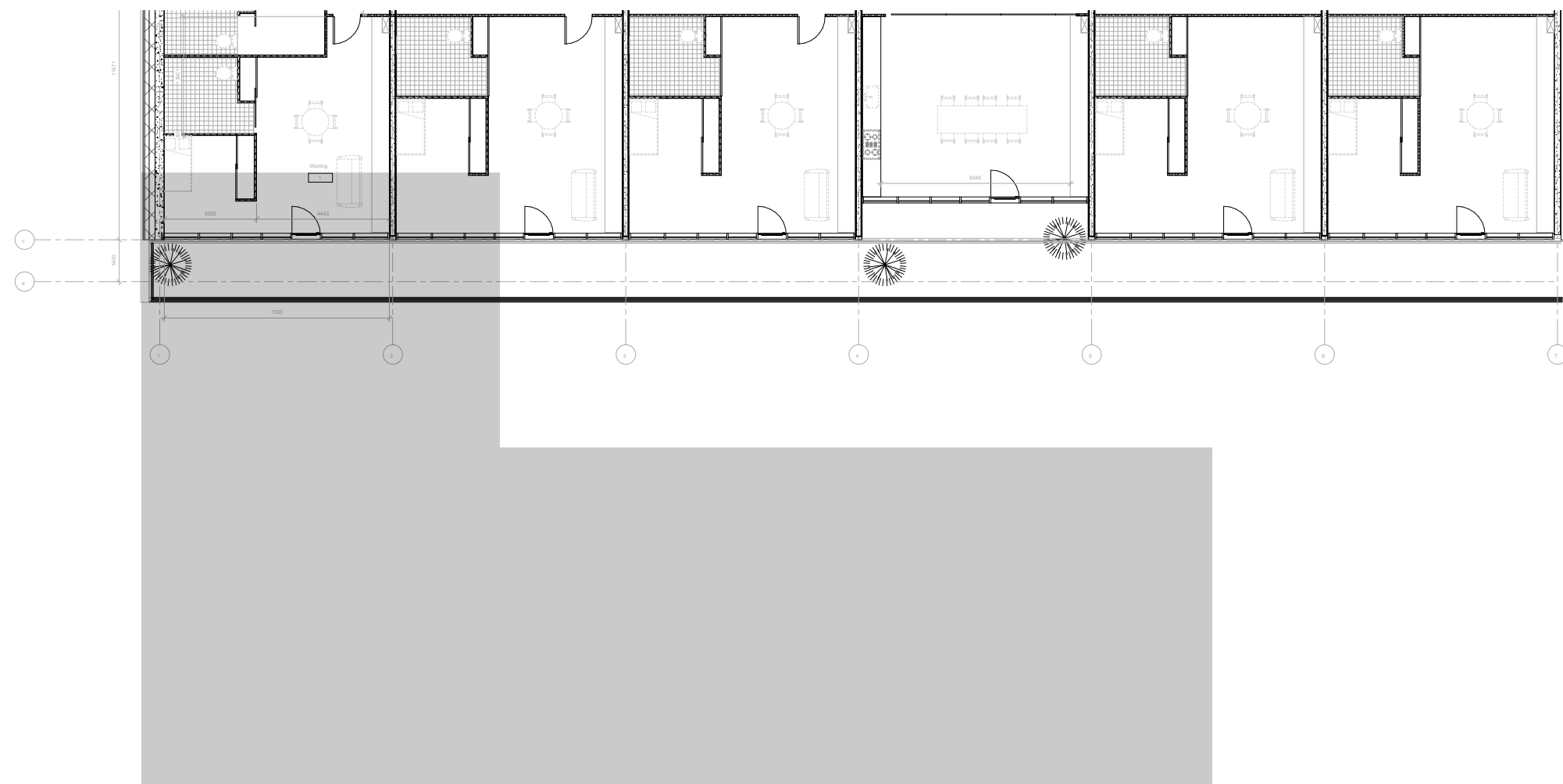
SMALL SCALE
LIVING



DESIGN

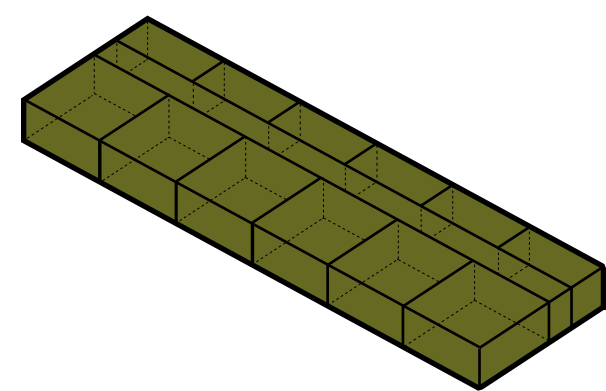
1/2 floor, 1 story

7 people who
need 24h care



DESIGN

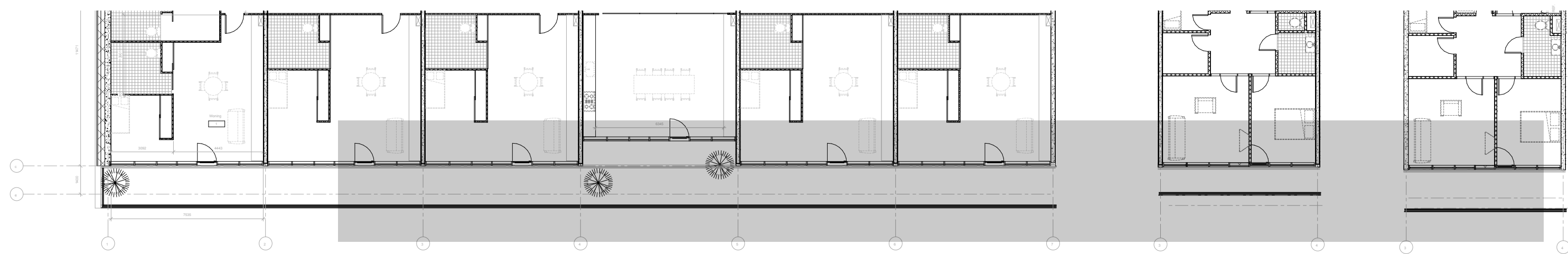
SMALL SCALE
LIVING



DESIGN

1/2 floor, 1 story

7 people who
need 24h care

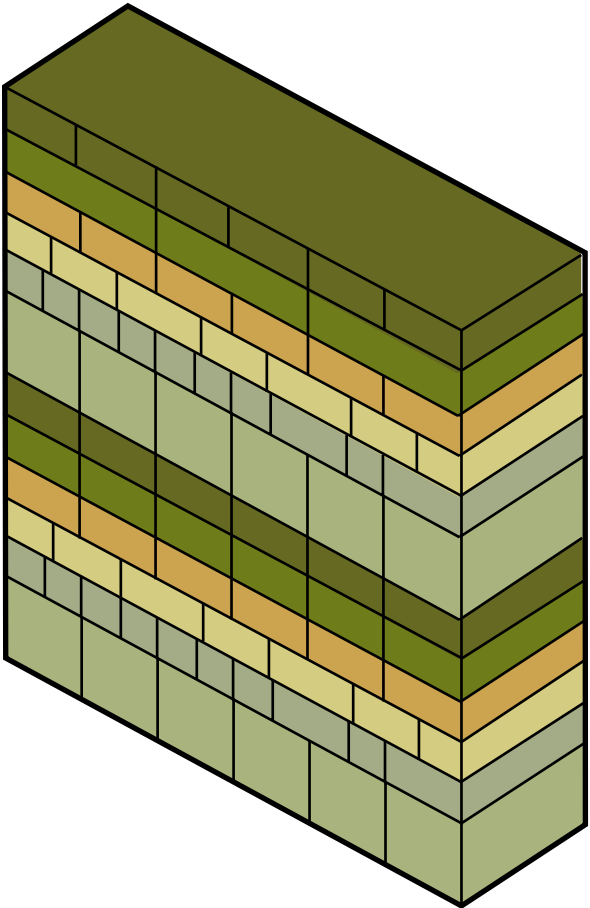
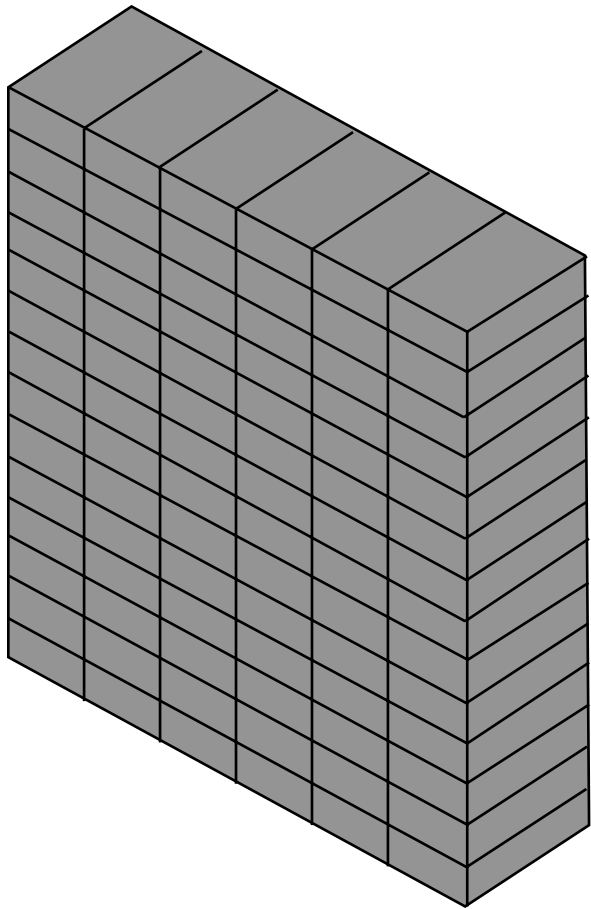


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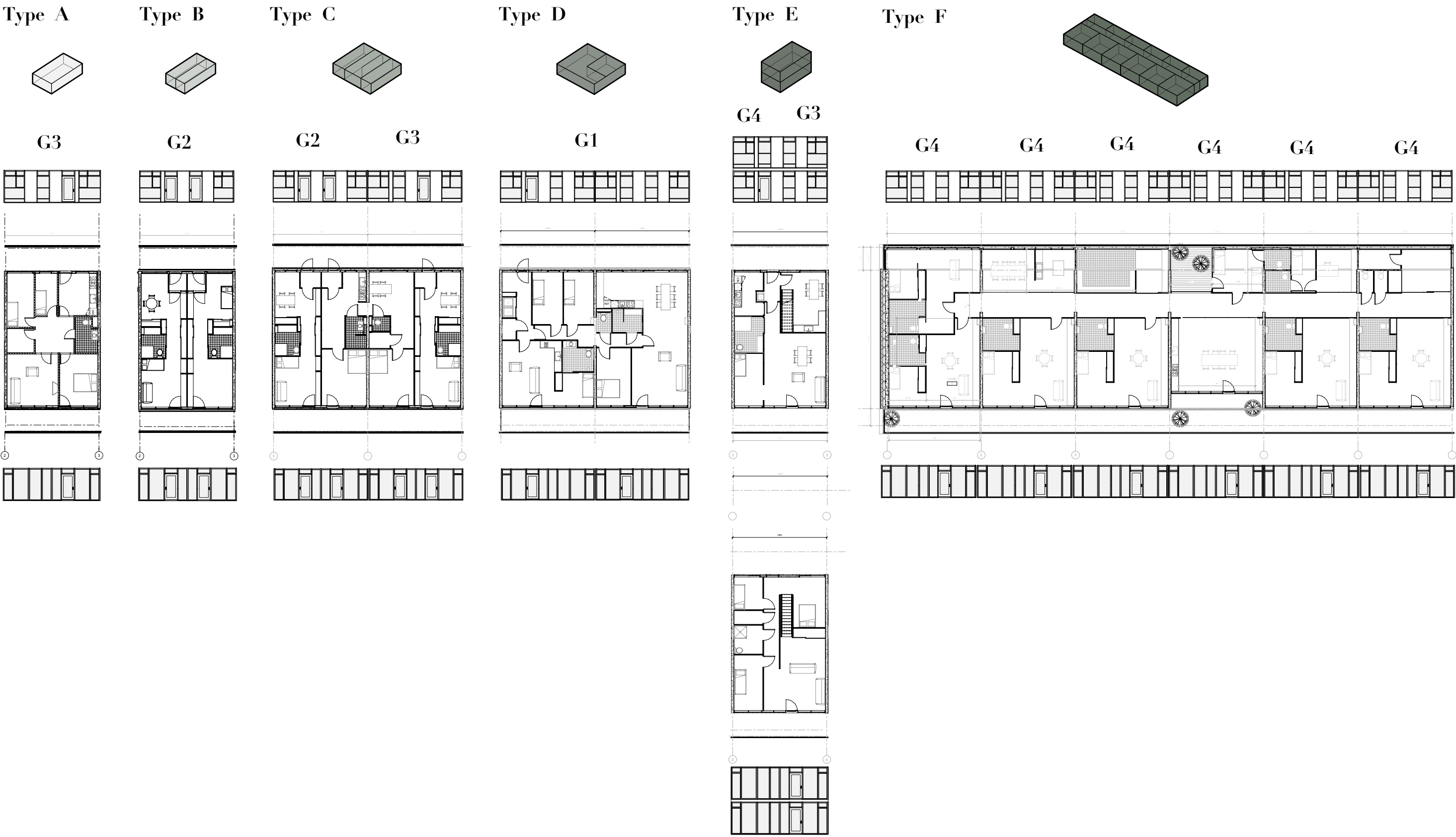
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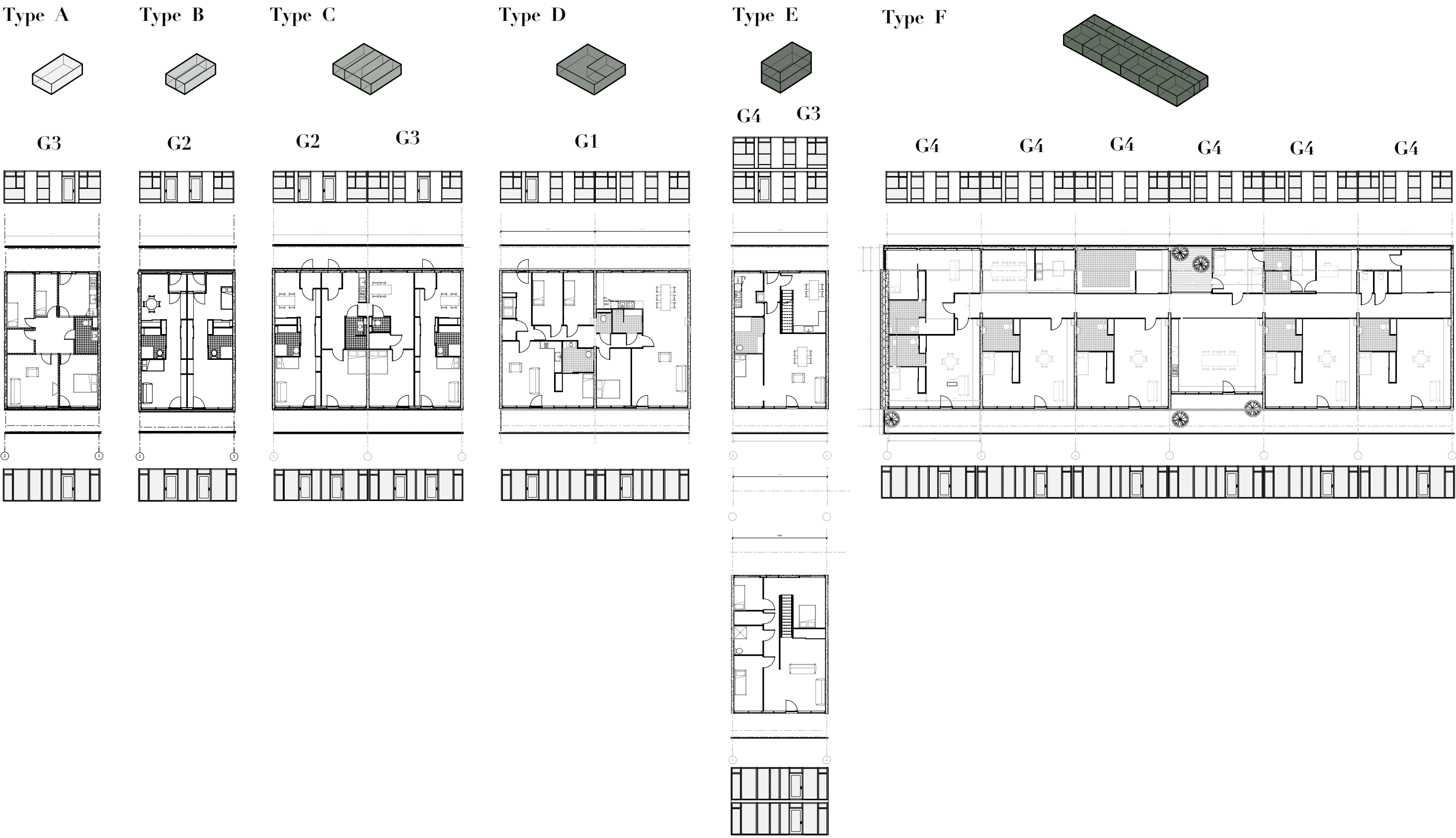
DESIGN



DESIGN



DESIGN



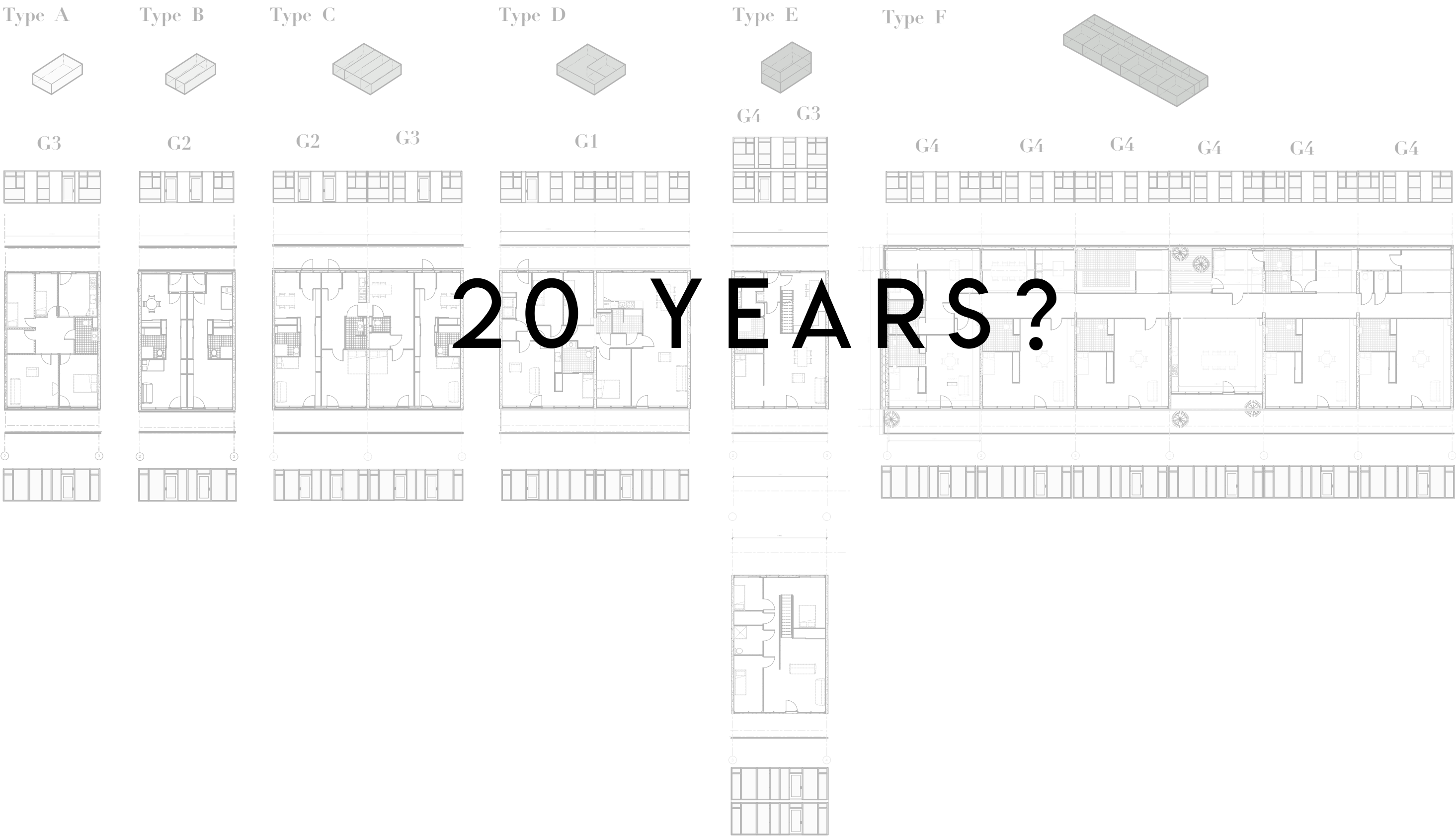
DESIGN



FLEXIBILITY

JOHN HABRAKEN'S IDEOLOGY. CARRIER & INFILL

DESIGN



20 YEARS?

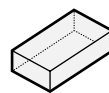
FLEXIBILITY

JOHN HABRAKEN'S IDEOLOGY. CARRIER & INFILL

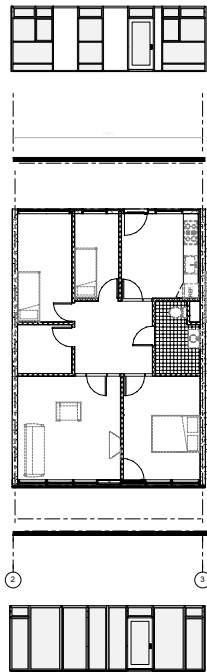
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FLEXIBLE FACADE

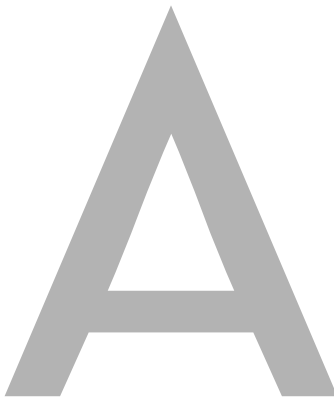
Type A



G3

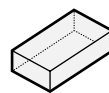


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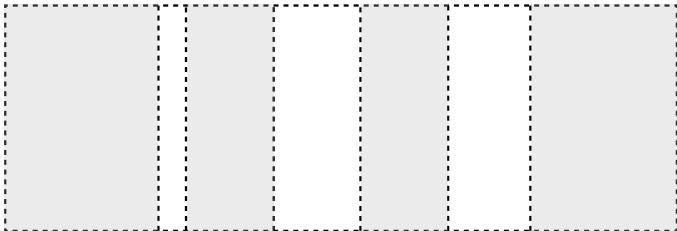
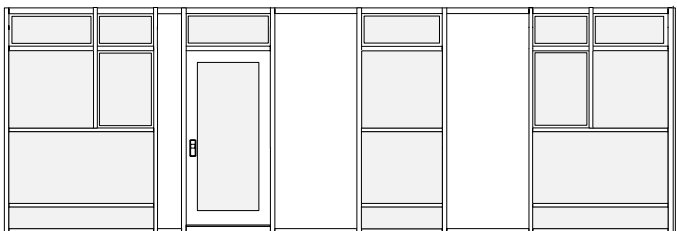
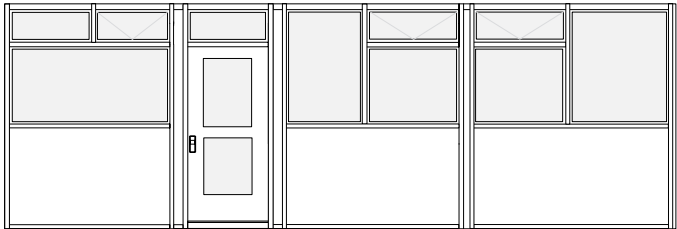
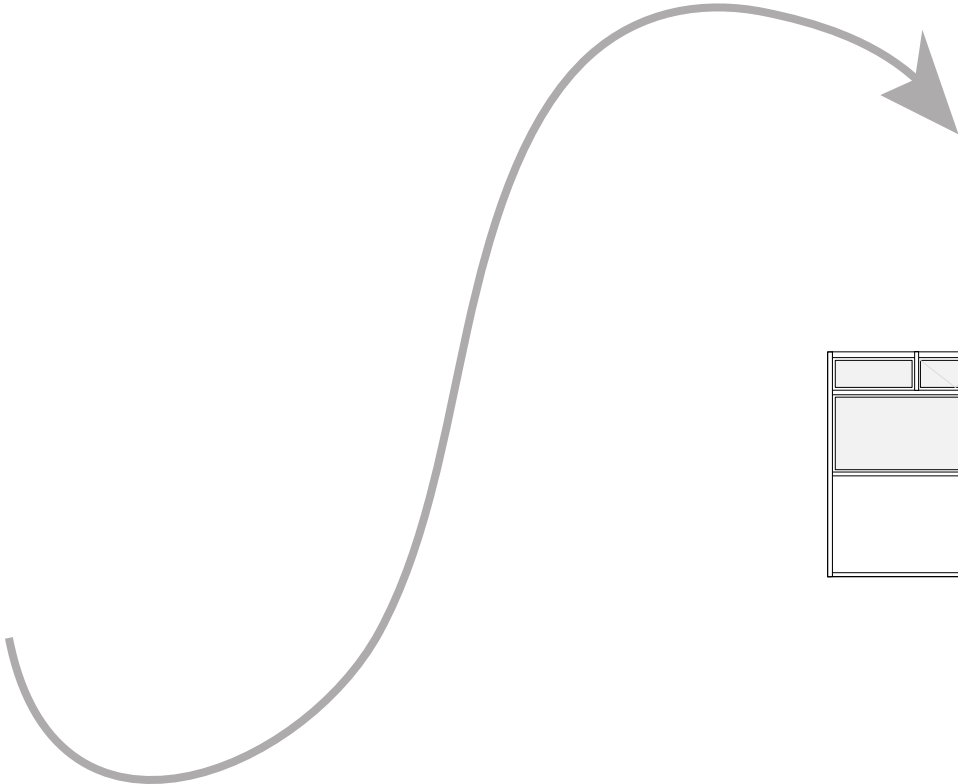
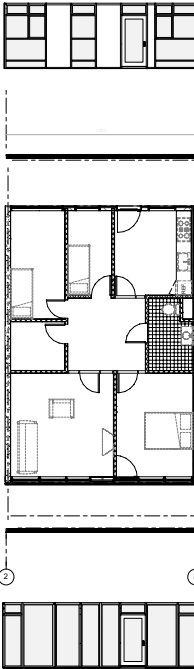


FLEXIBLE FACADE

Type A



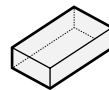
G3



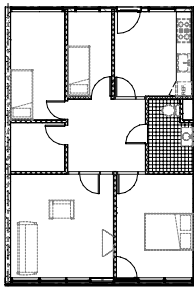
FLEXIBLE FACADE

DESIGN

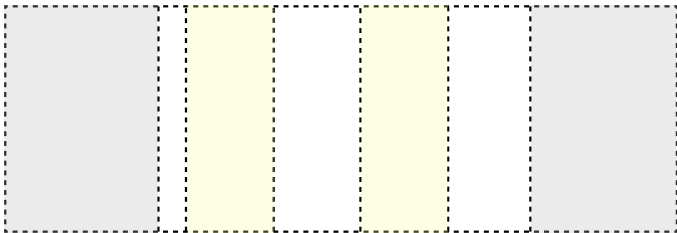
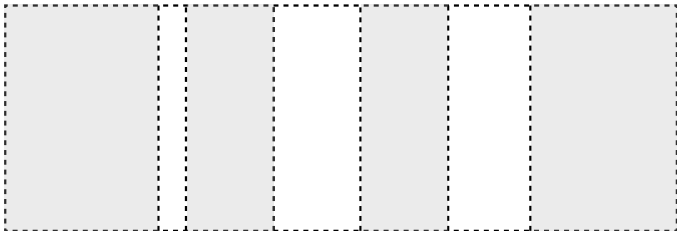
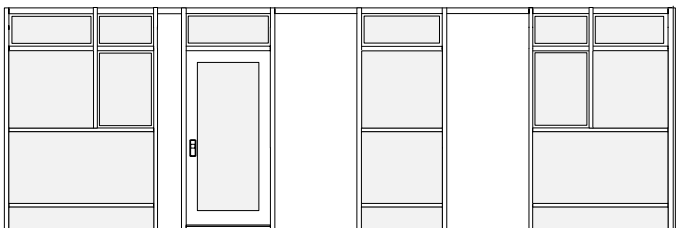
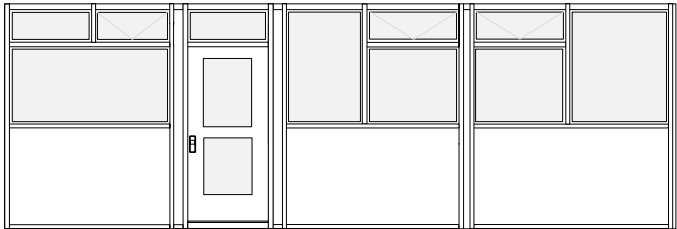
Type A



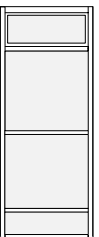
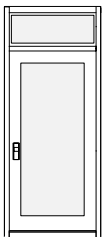
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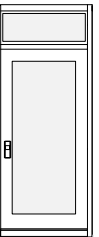
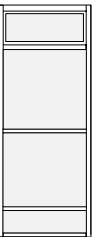
A



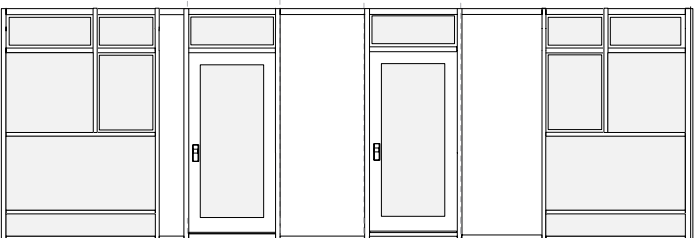
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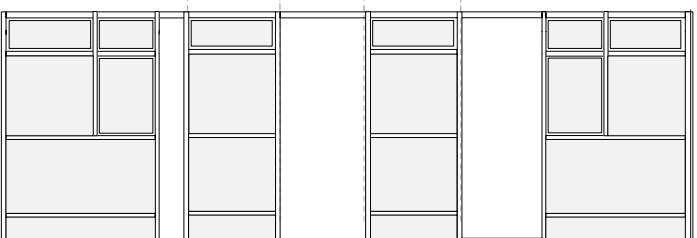


G1

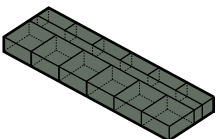
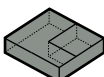
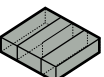


G2

G3



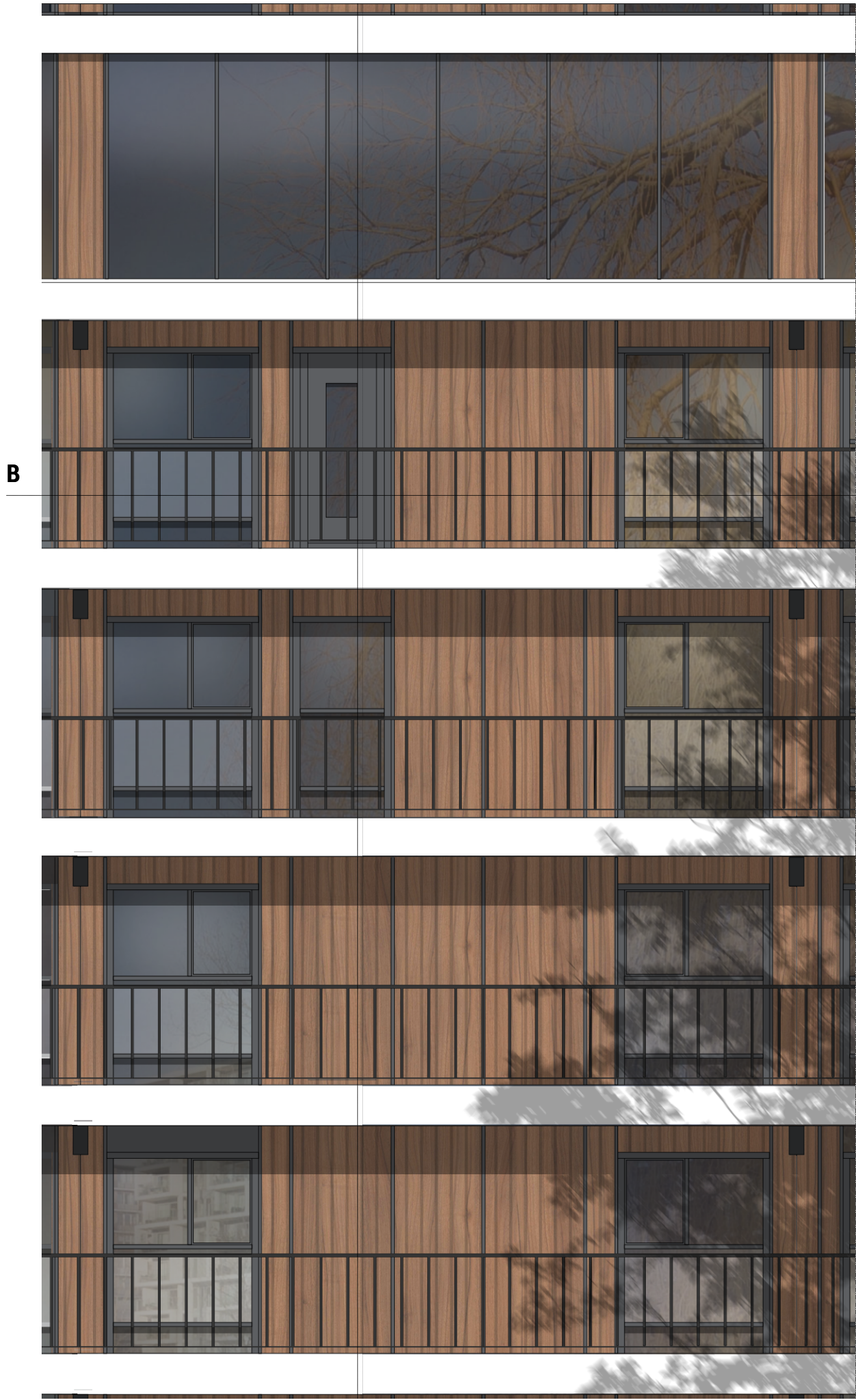
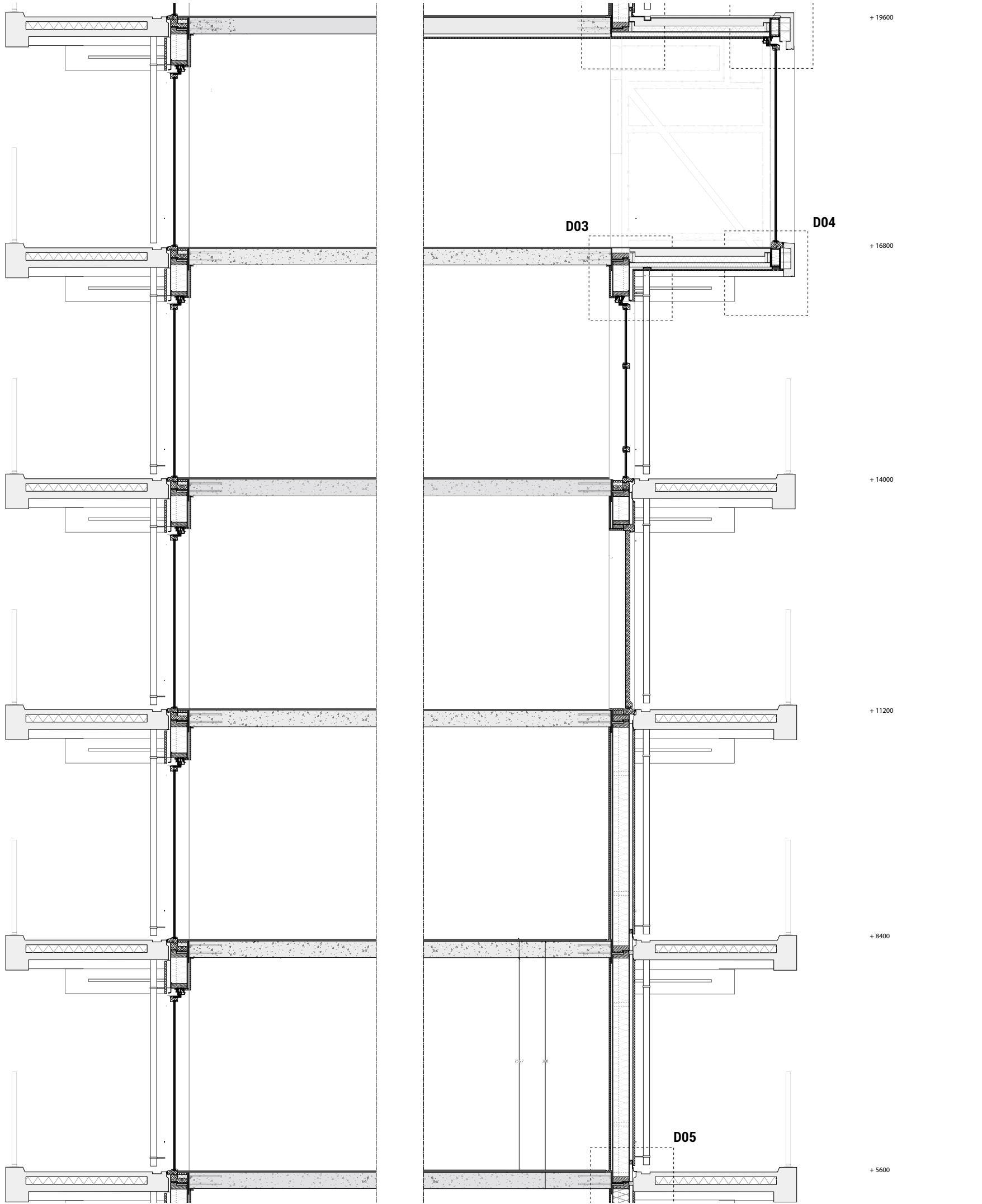
G4



A, B, C, D, E, F

FLEXIBLE FACADE

DESIGN



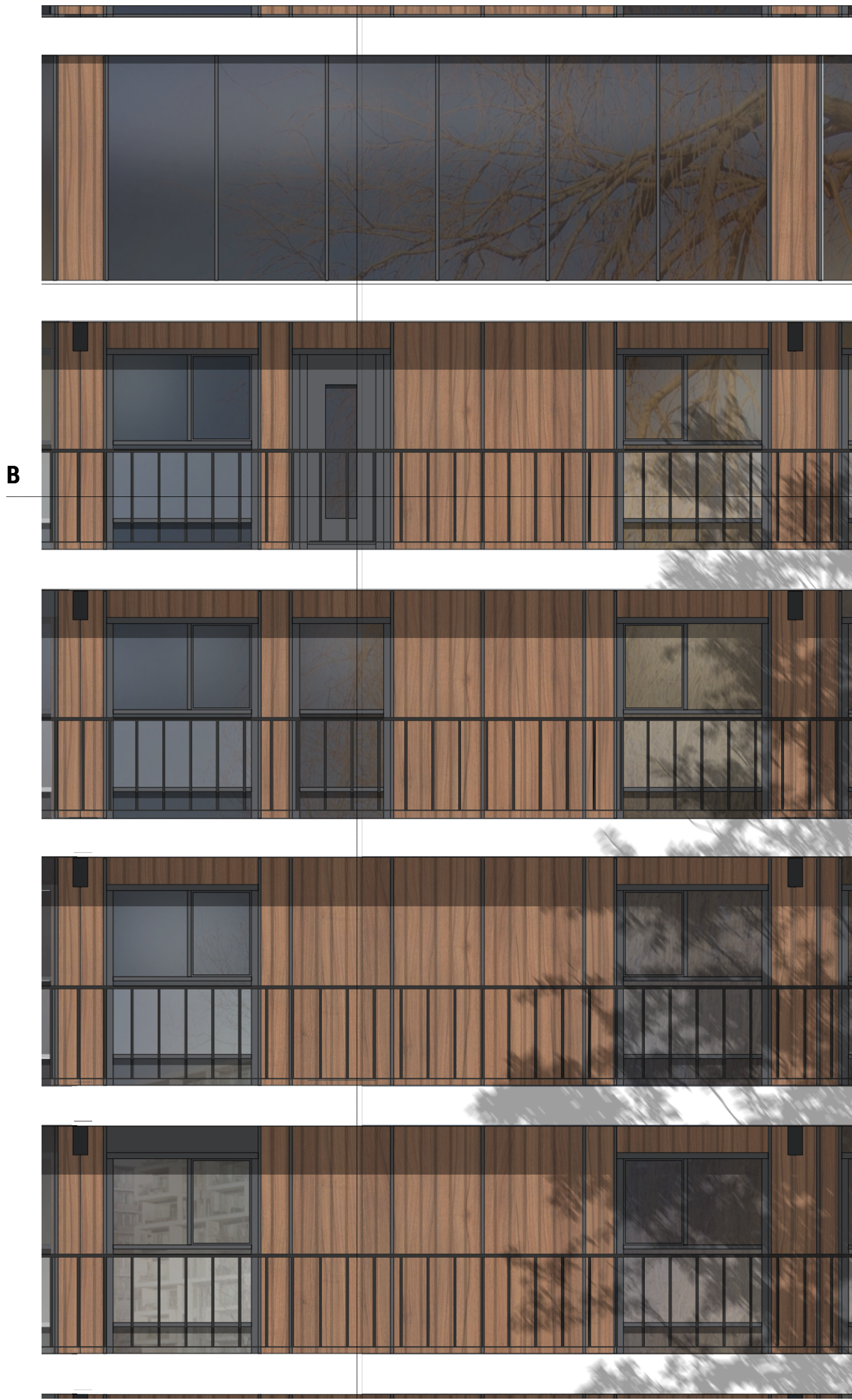
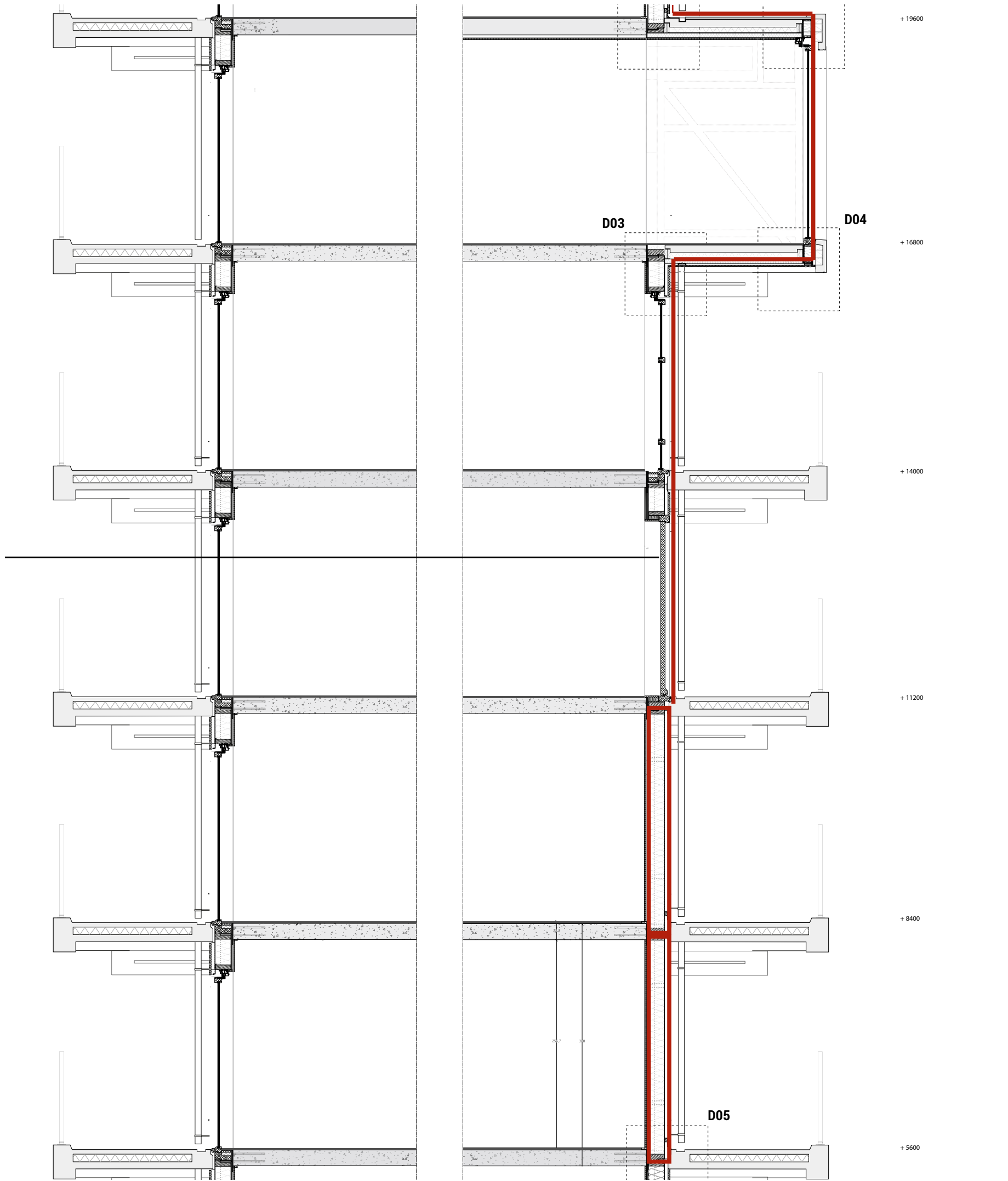
FLEXIBLE FACADE

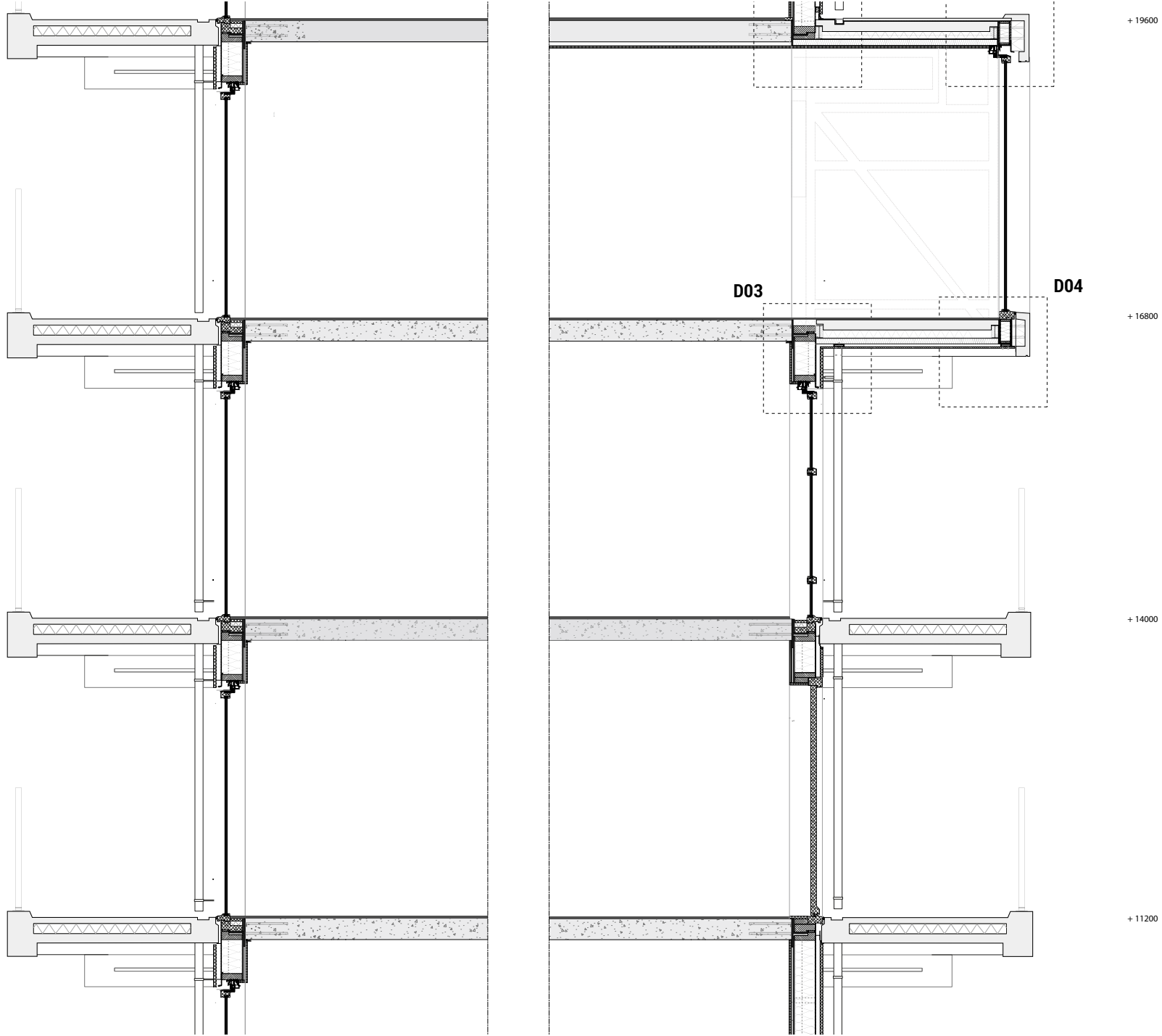
HIGHER INSULATING
FACADE

HR++ GLAZING

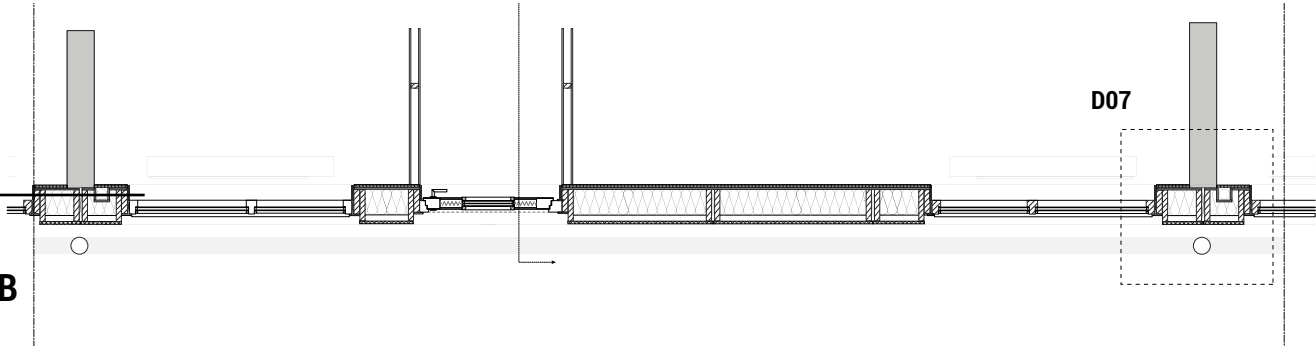
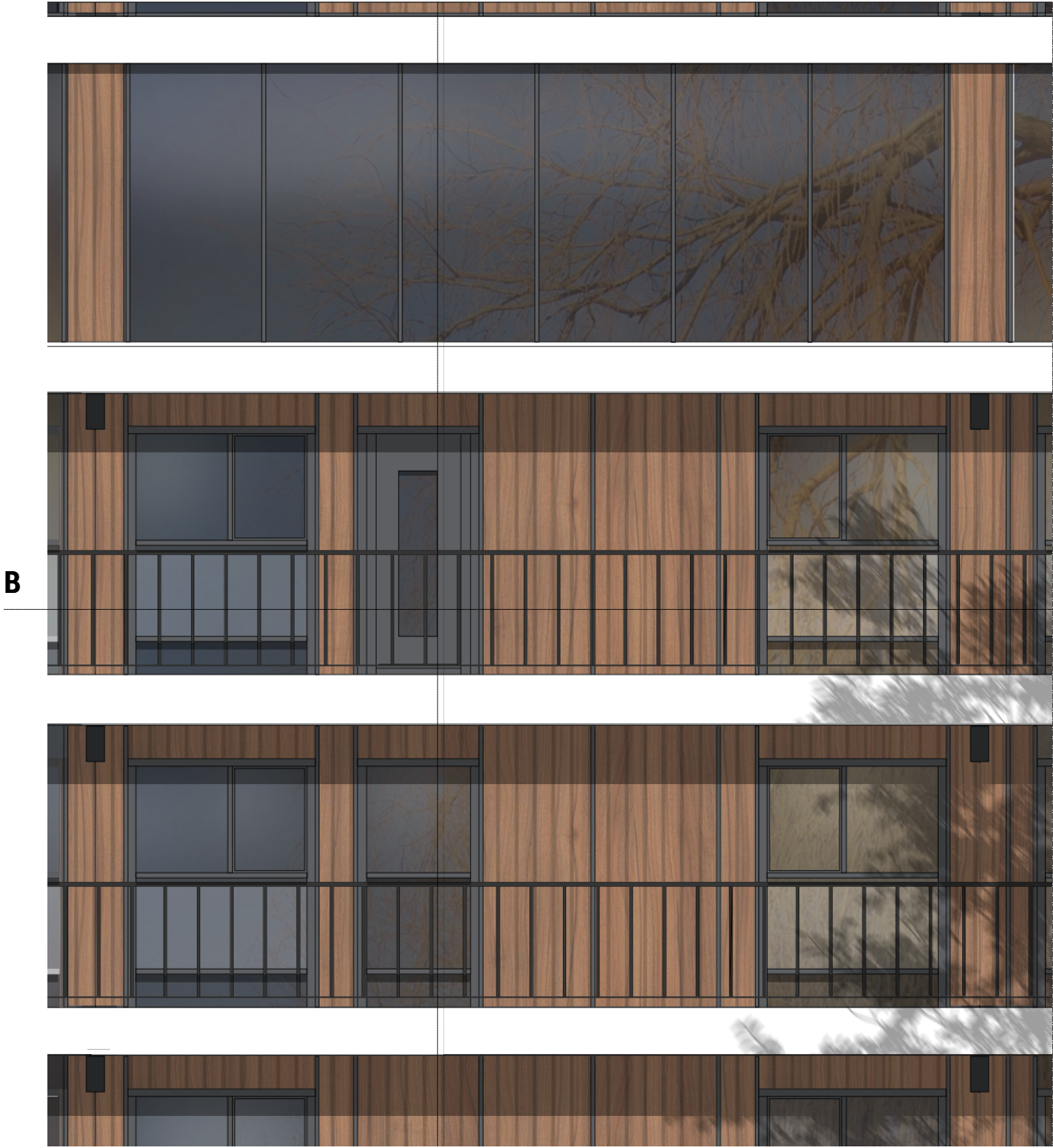
INTERGRATED
NATURAL
VENTILATION INLETS

DESIGN





PIPE SHAFT INTERGRATED
IN THE FACADE



CLIMATE CONCEPT

1 PIPE SYSTEM IS REPLACED WITH A
TWO PIPE SYSTEM

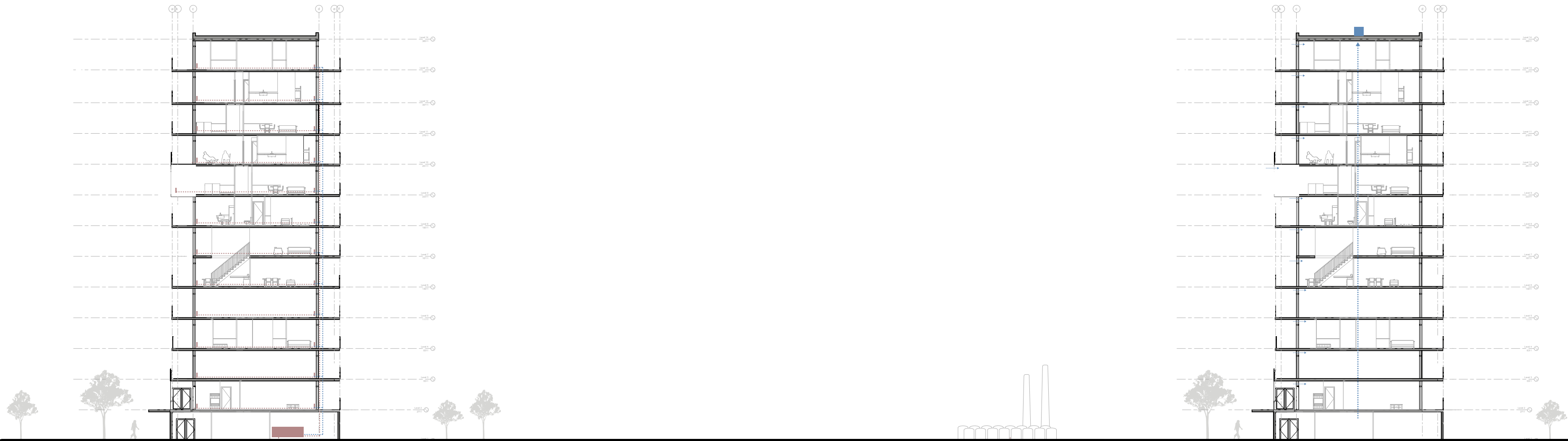
DESIGN



CLIMATE CONCEPT

GAS FREE, BUILDING CONNECTED TO
CITY HEATING + HEATPUMP

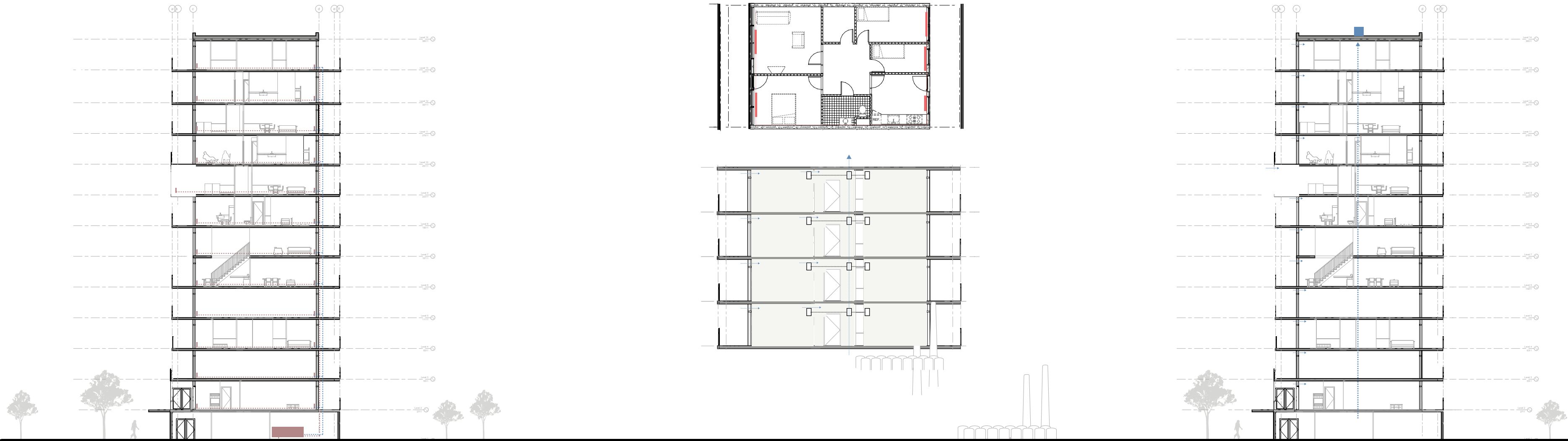
DESIGN



CLIMATE CONCEPT

NATURAL VENTILATION

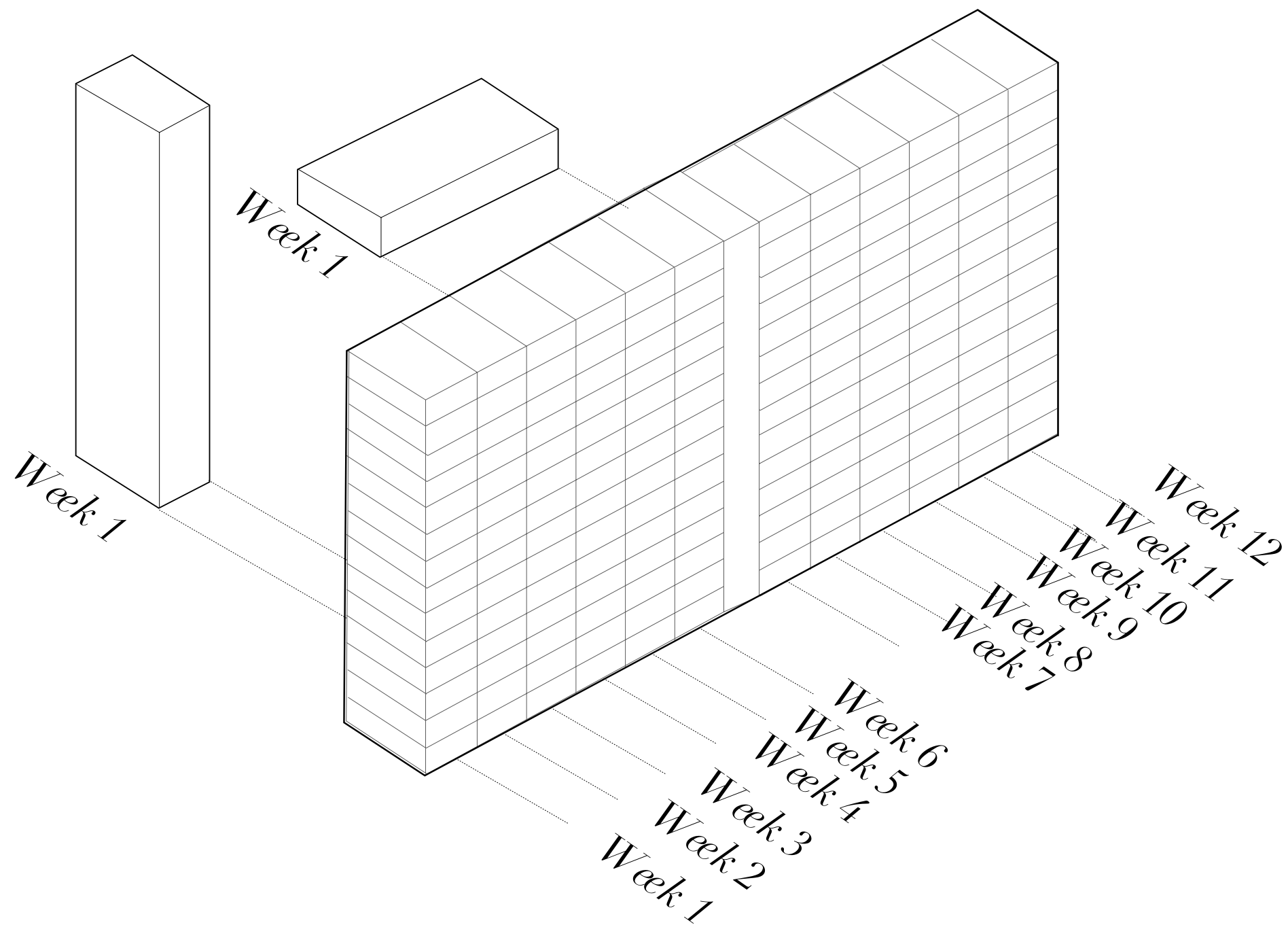
DESIGN



ASSEMBLY

WEEK 1

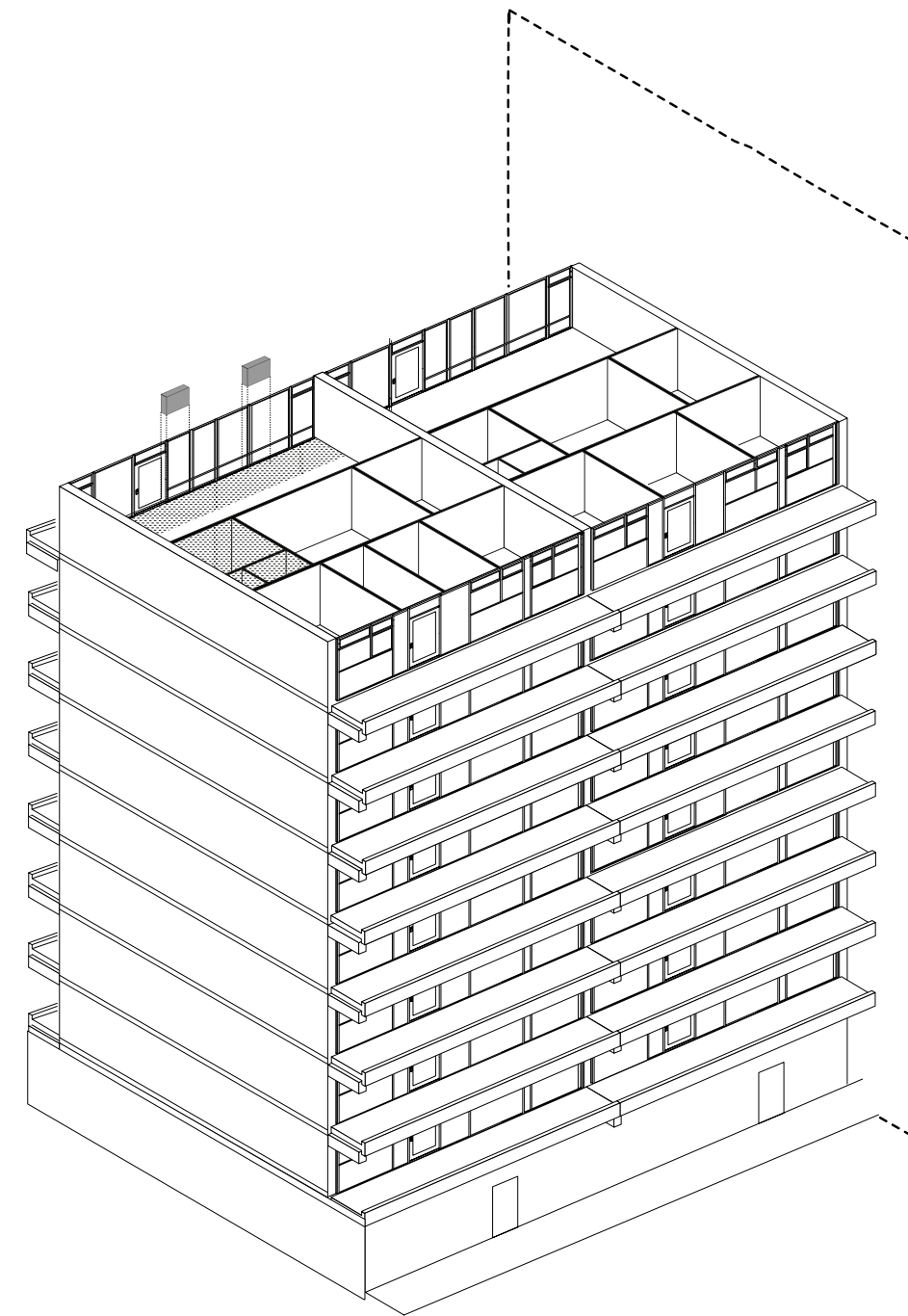
DESIGN



ASSEMBLY

DAY 1

DESIGN



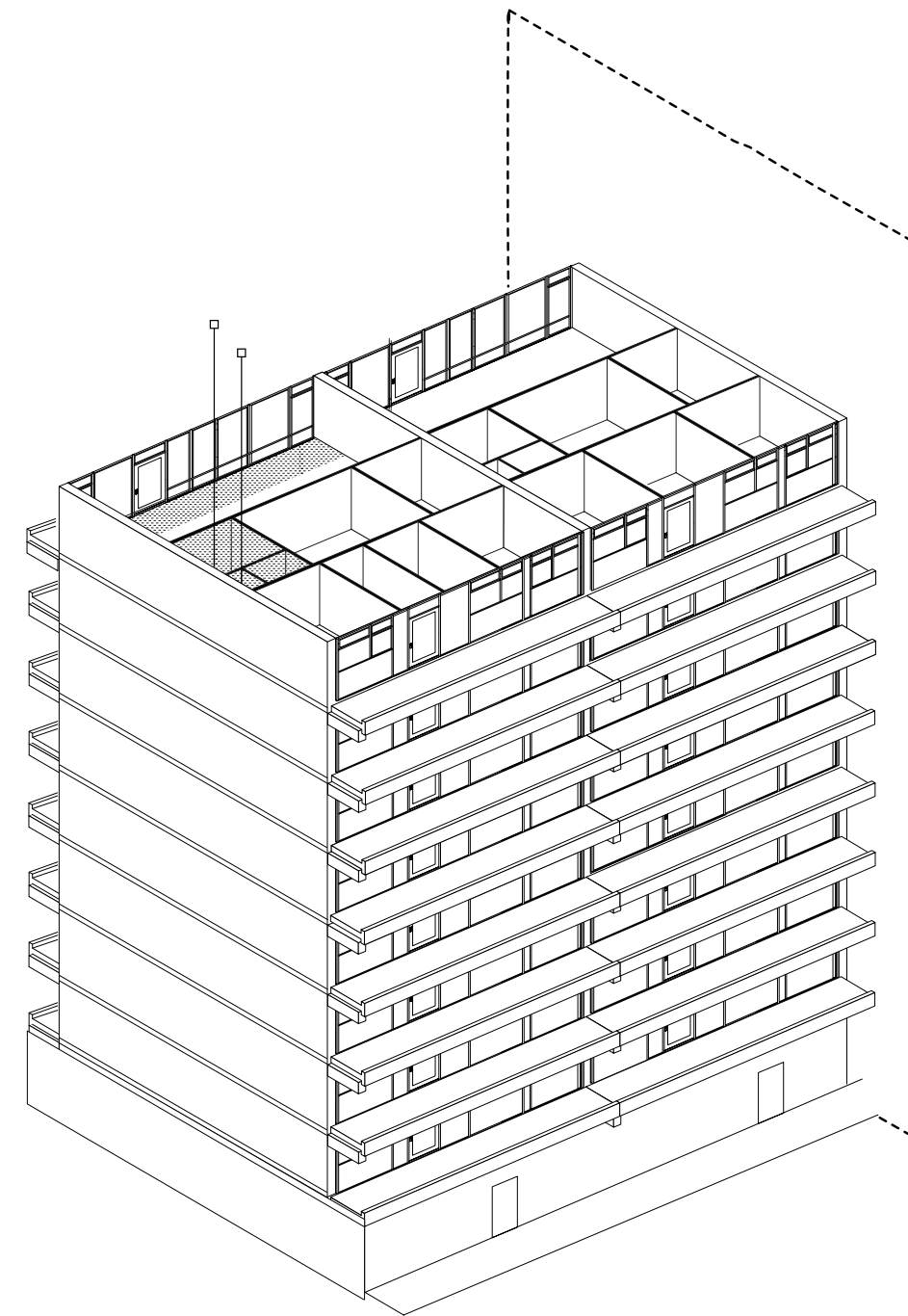
143

FLOOR PROTECTION
DISASSEMBLE TOILET + BATHROOM
DRILL WORK
REMOVE RADIATORS BALCONY SIDE

ASSEMBLY

DAY 2

DESIGN



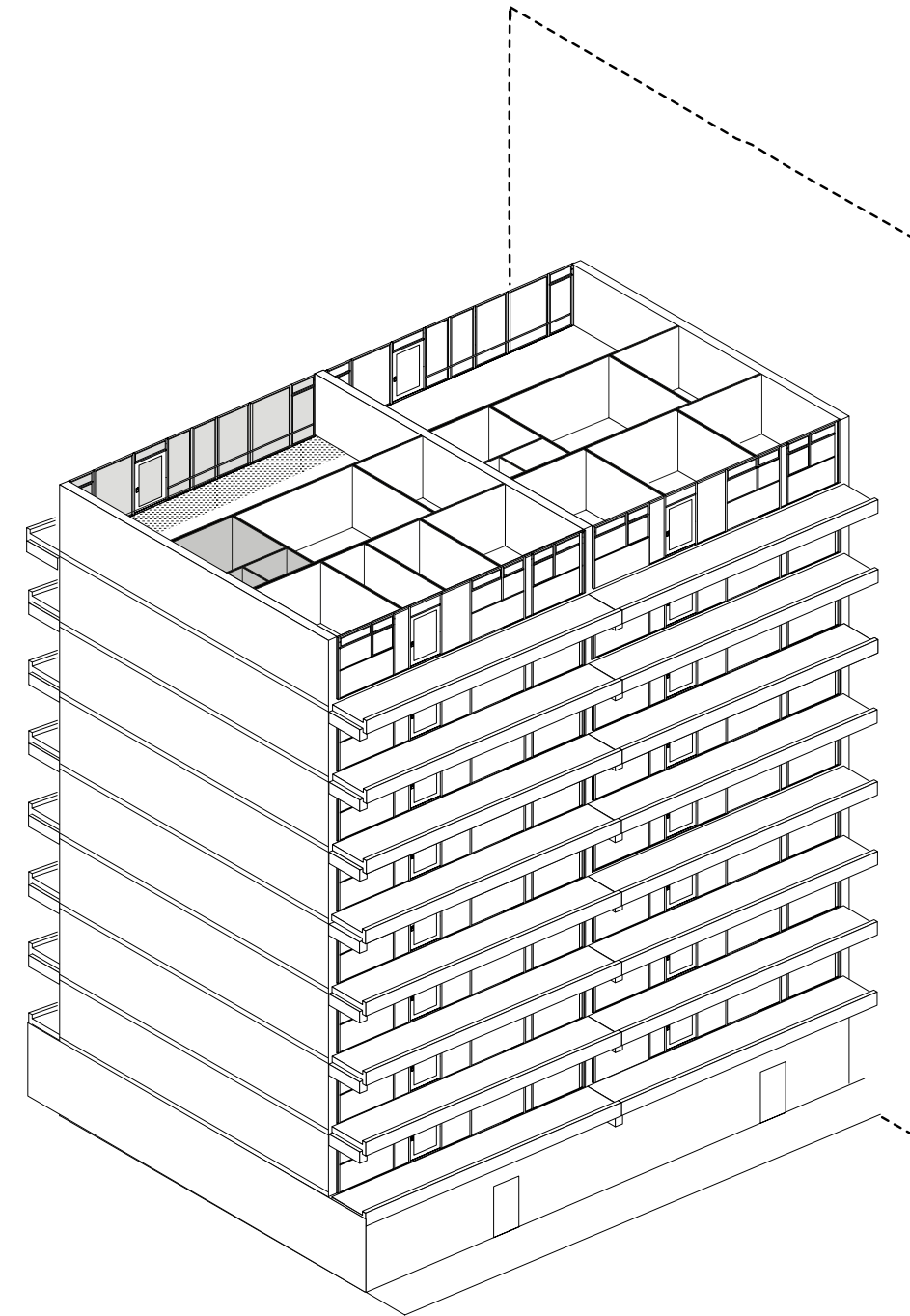
144

APPLY NEW PIPES

ASSEMBLY

DAY 3

DESIGN



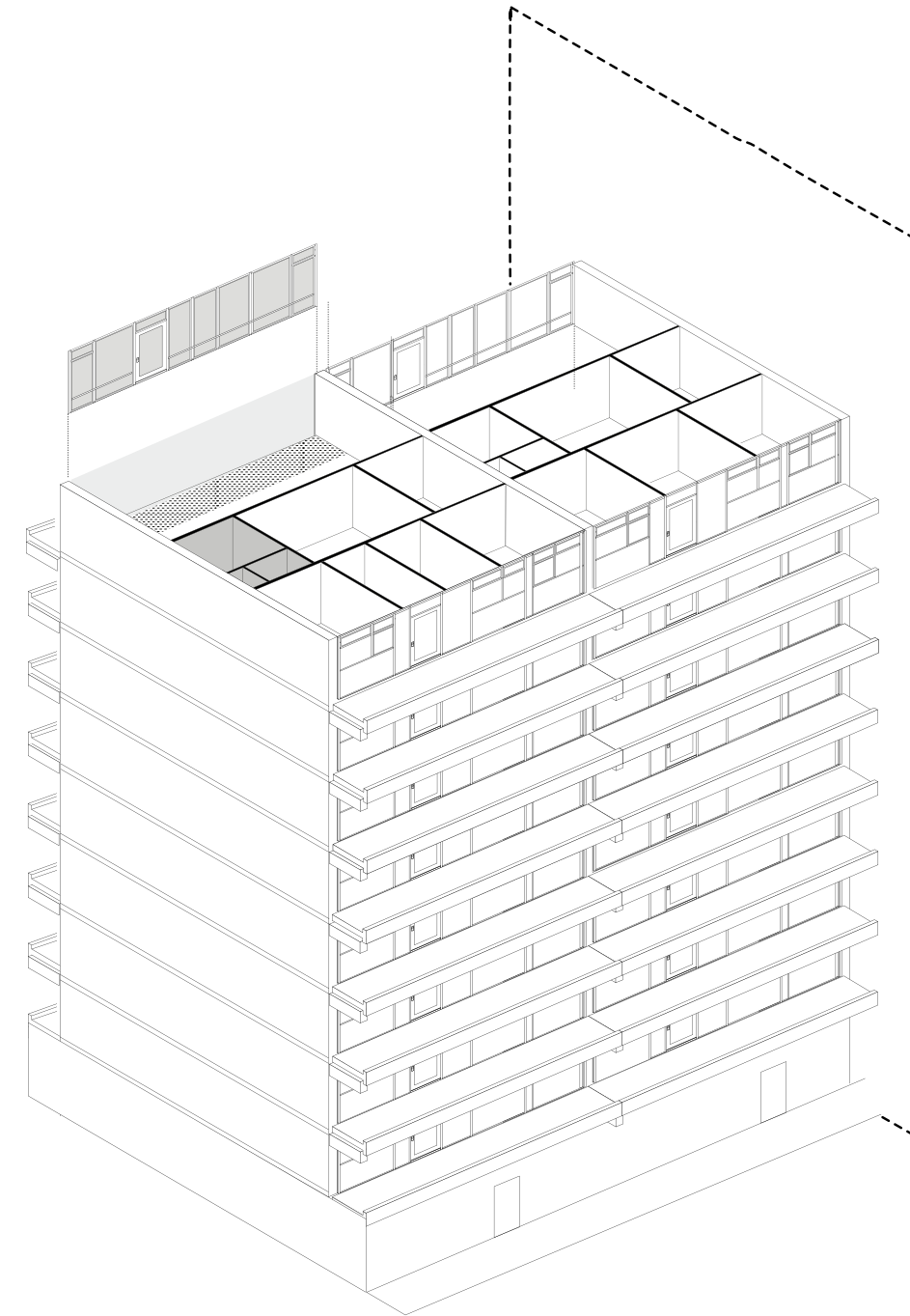
145

WALL FINISHING IN TOILET AND BATHROOM REMOVED
REMOVE FACADE BALCONY SIDE. (APPARTMENT ACCESSIBLE VIA GALLERY SIDE)

ASSEMBLY

DAY 3

DESIGN



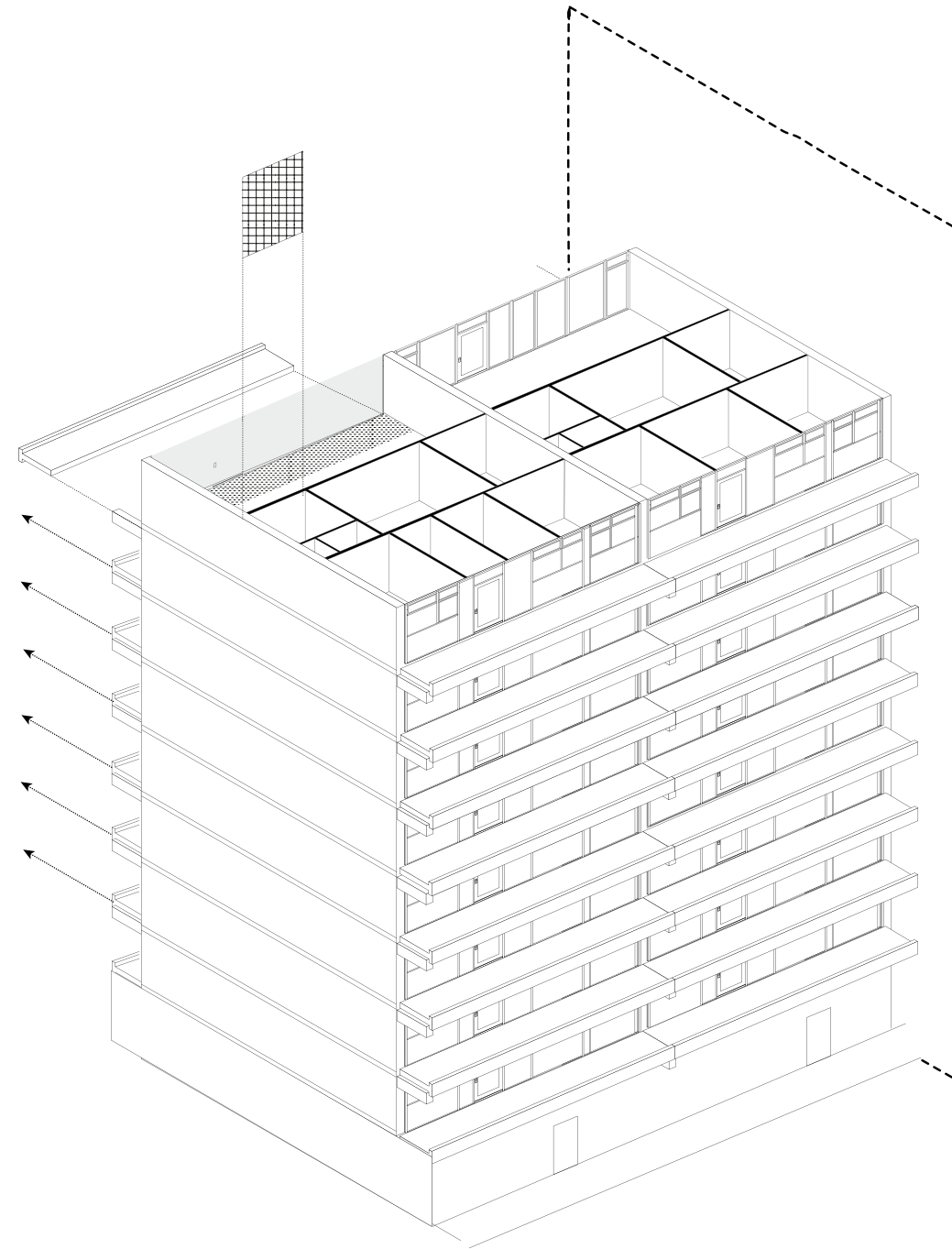
146

FINISHING WALLS IN TOILET AND BATHROOM
REMOVE FACADE BALCONY SIDE. (APPARTMENT ACCESSIBLE VIA GALLERY SIDE)

ASSEMBLY

DAY 4

DESIGN



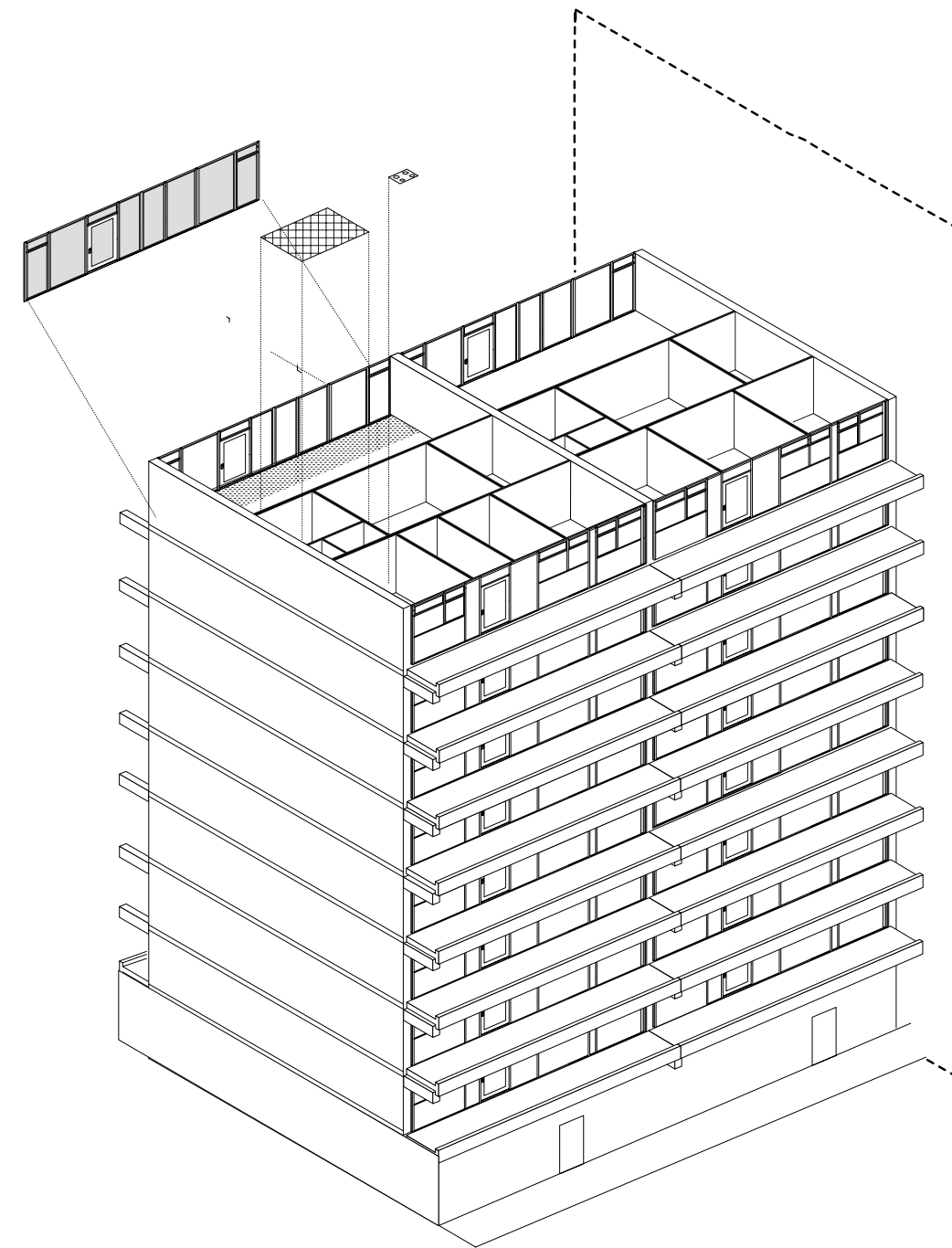
147

BALCONY IS BEING REMOVED
TILE TILES IN TOILET AND BATHROOM

ASSEMBLY

DAY 5

DESIGN



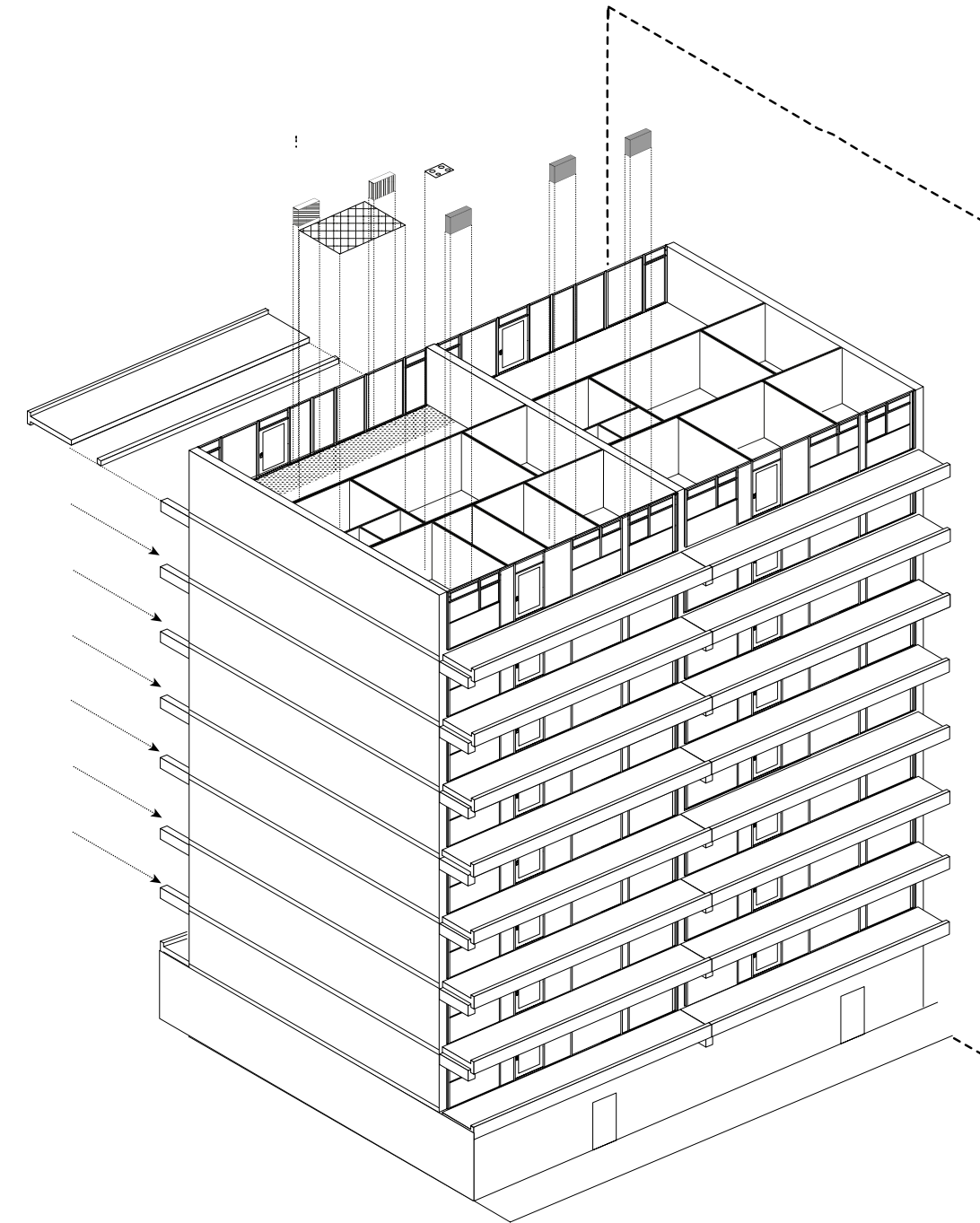
148

NEW FACADE IS PLACED
TILE TILES IN TOILET AND BATHROOM

ASSEMBLY

DAY 6

DESIGN



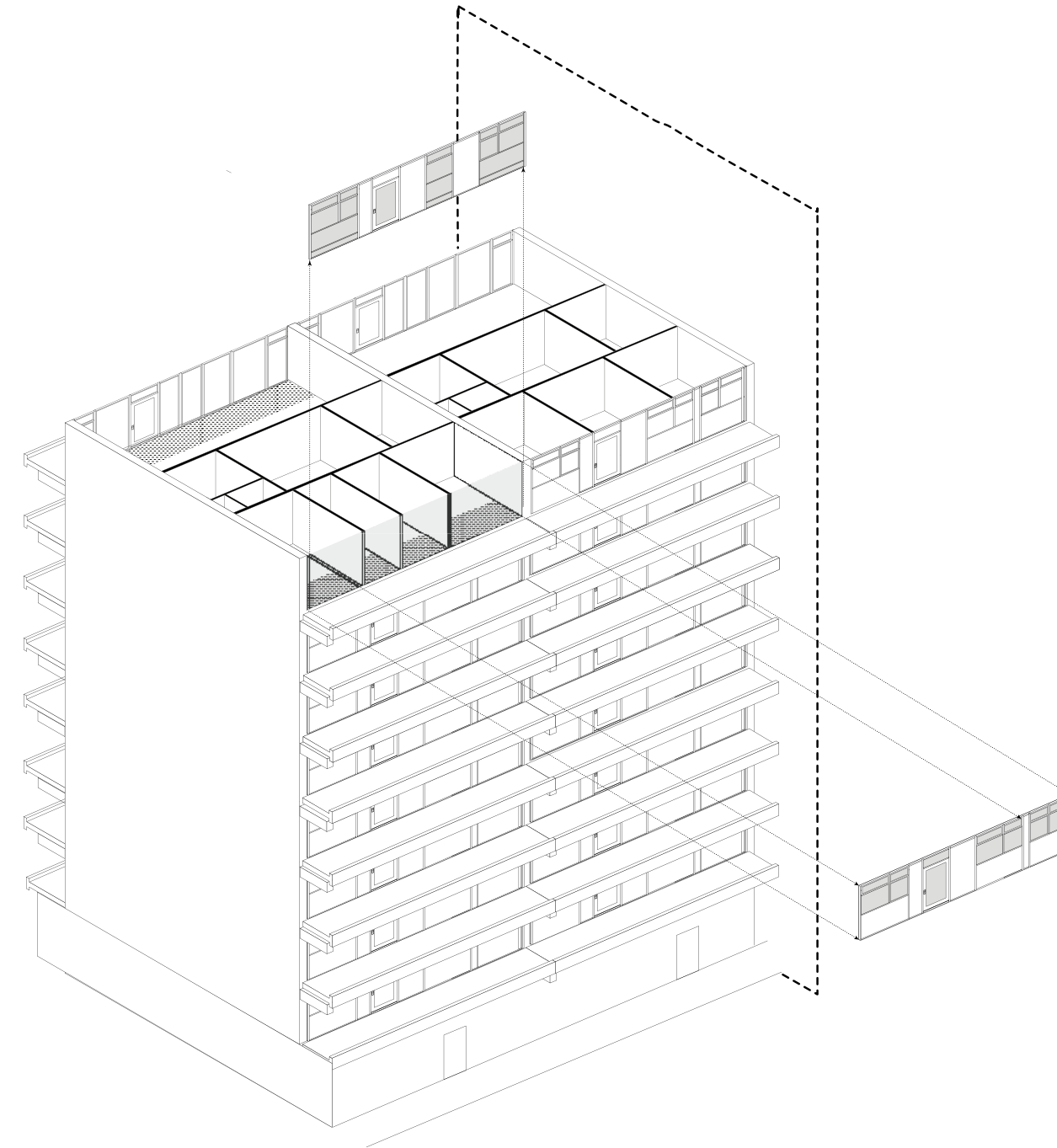
149

NEW BALCONY IS PLACED
RADIATORS PLACES ON BALCONY SIDE
REMOVING RADIATORS GALERY SIDE
COOKING PLATE IS PLACED

ASSEMBLY

DAY 7

DESIGN



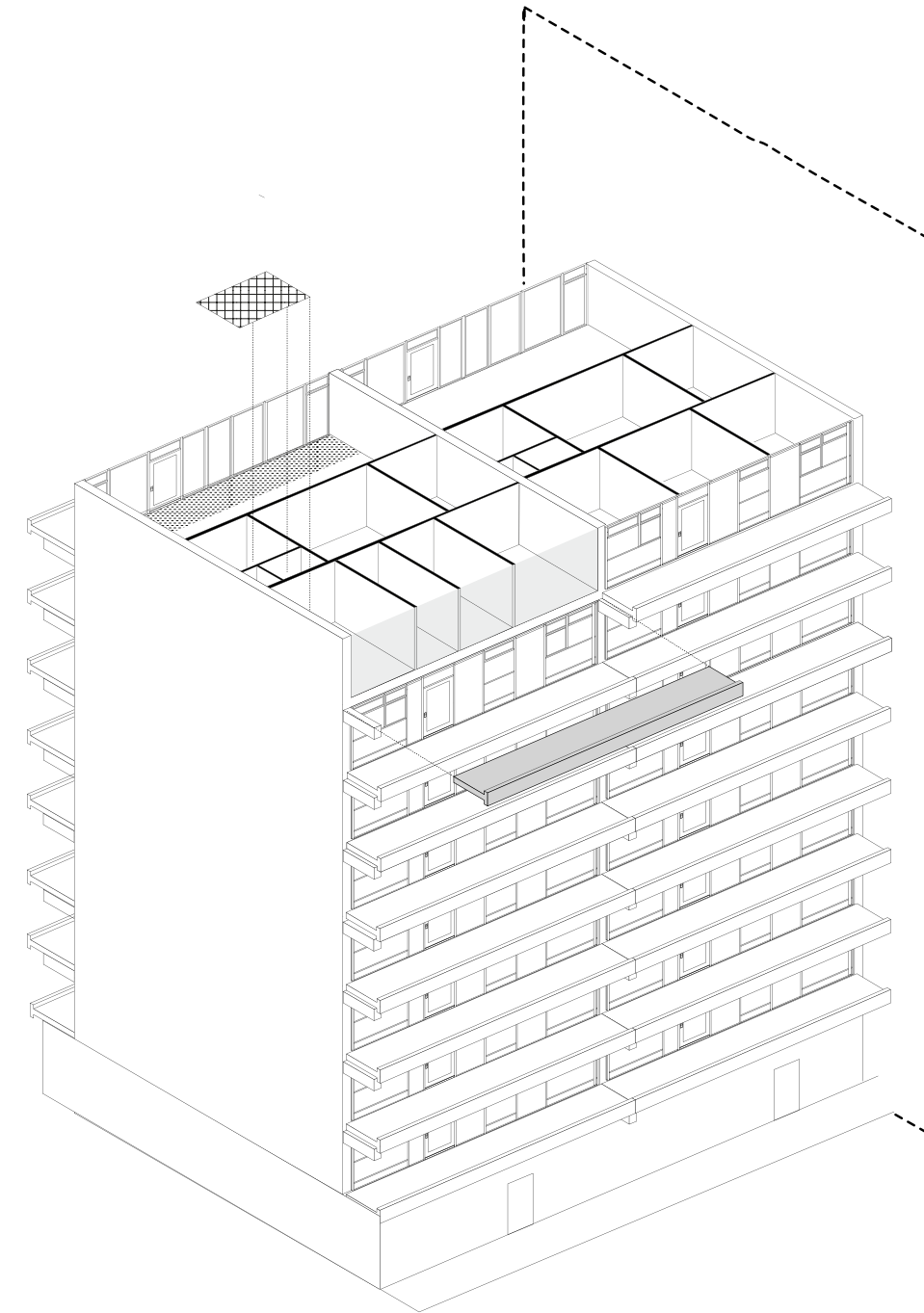
150

FACADE GALERY SIDE IS REMOVED

ASSEMBLY

DAY 8

DESIGN



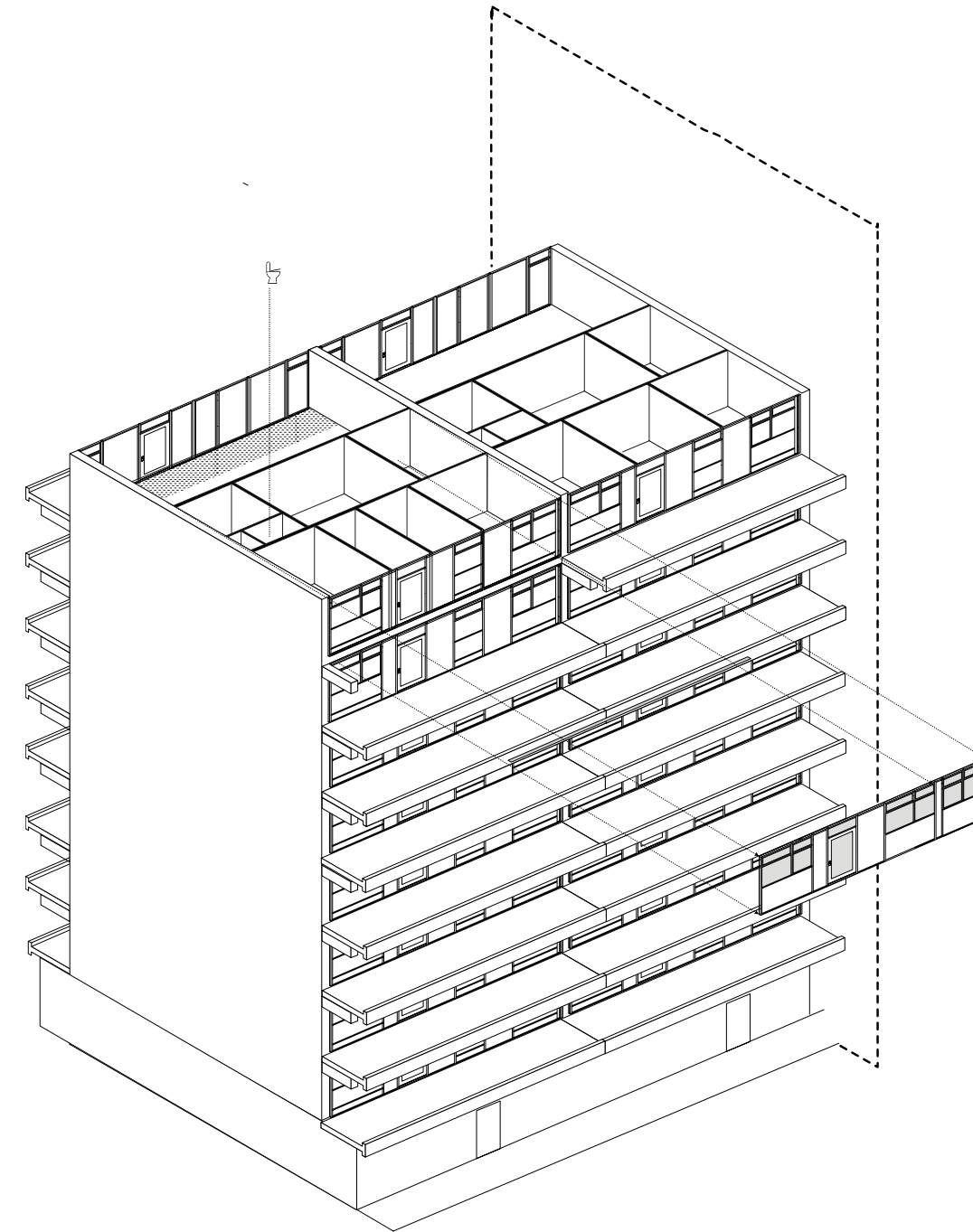
151

FACADE GALERY SIDE IS REMOVED IS REMOVED (APPARTMENT ACCESABLE VIA BALCONY)
TILE WORK IS FINISHED

ASSEMBLY

DAY 9

DESIGN



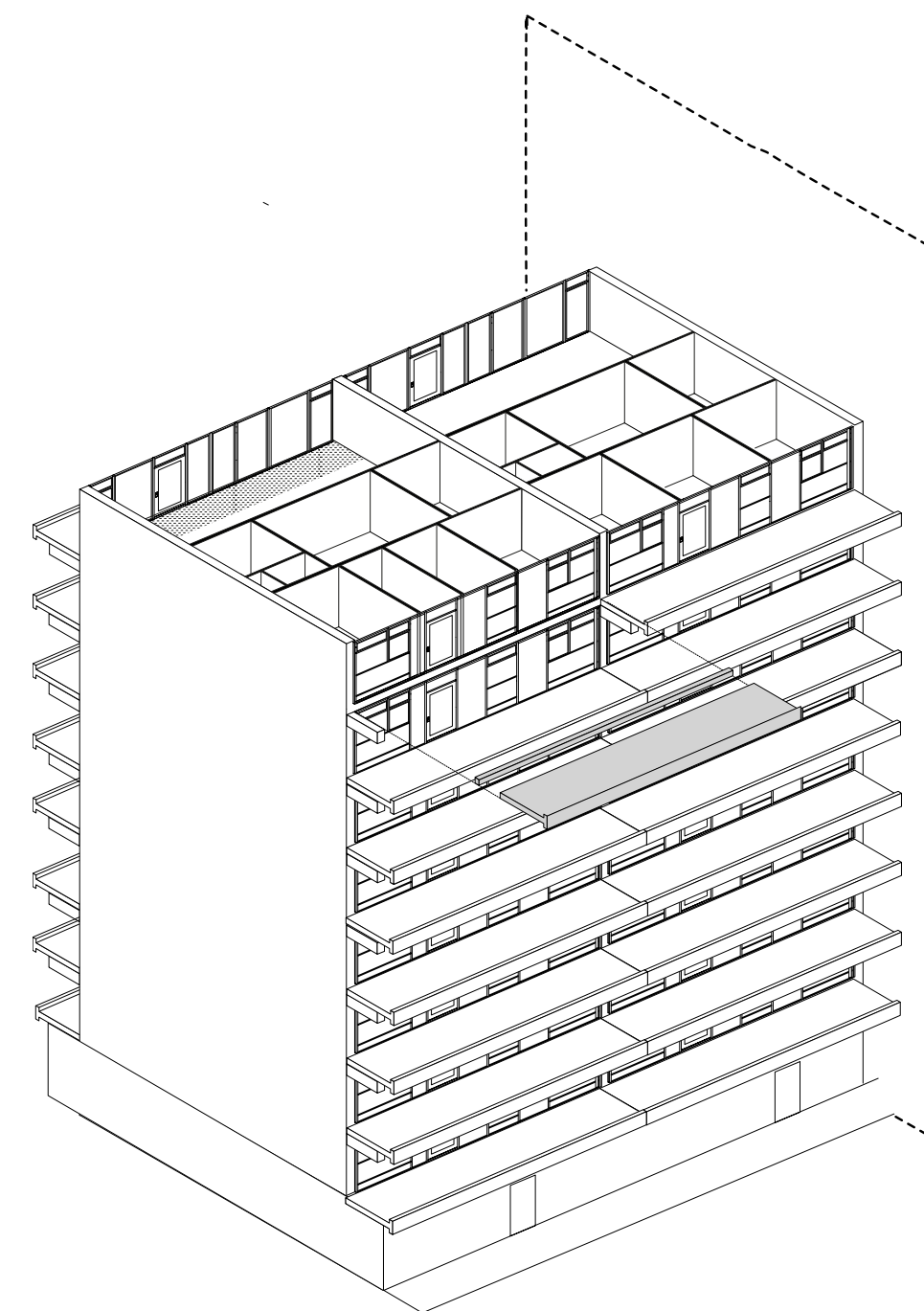
152

NEW FACADE GALERY SIDE IS PLACED
TOILET AND BATHROOM ARE SEATED
SANITARYWARE IS PLACED + KITWORK

ASSEMBLY

DAY 10

DESIGN

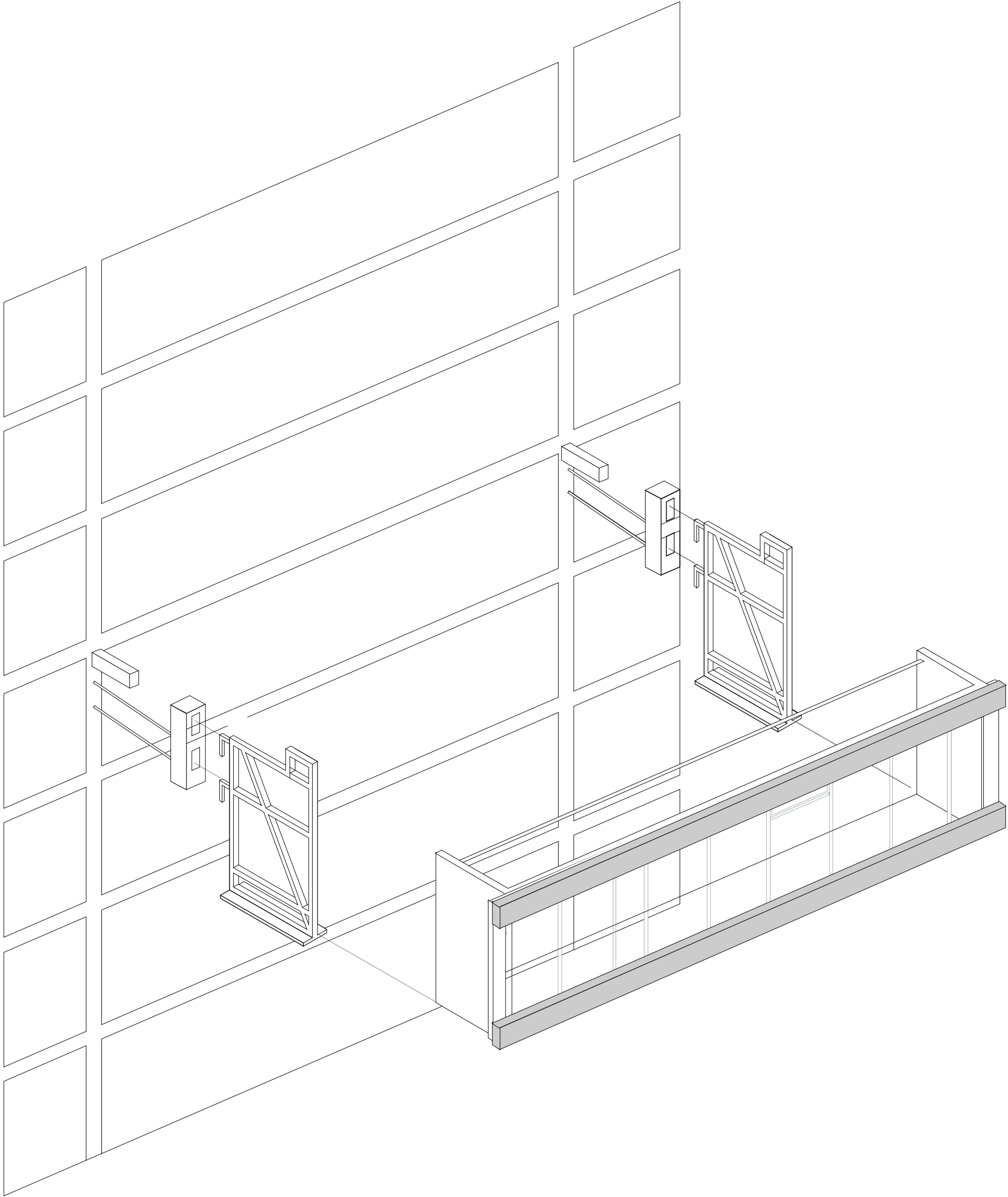


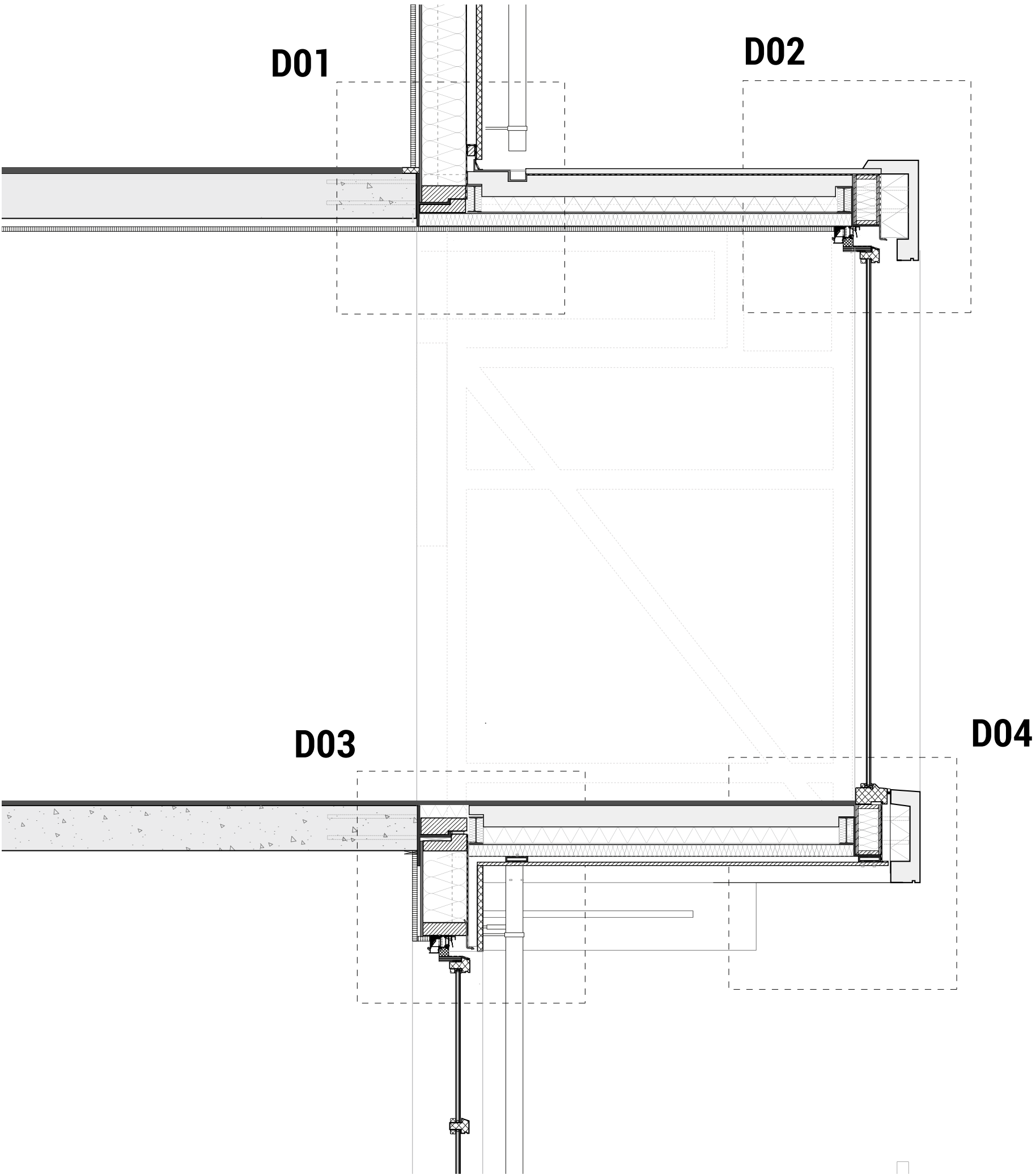
153

NEW GALERY SLAB IS ADDED

ASSEMBLY

TYPE F

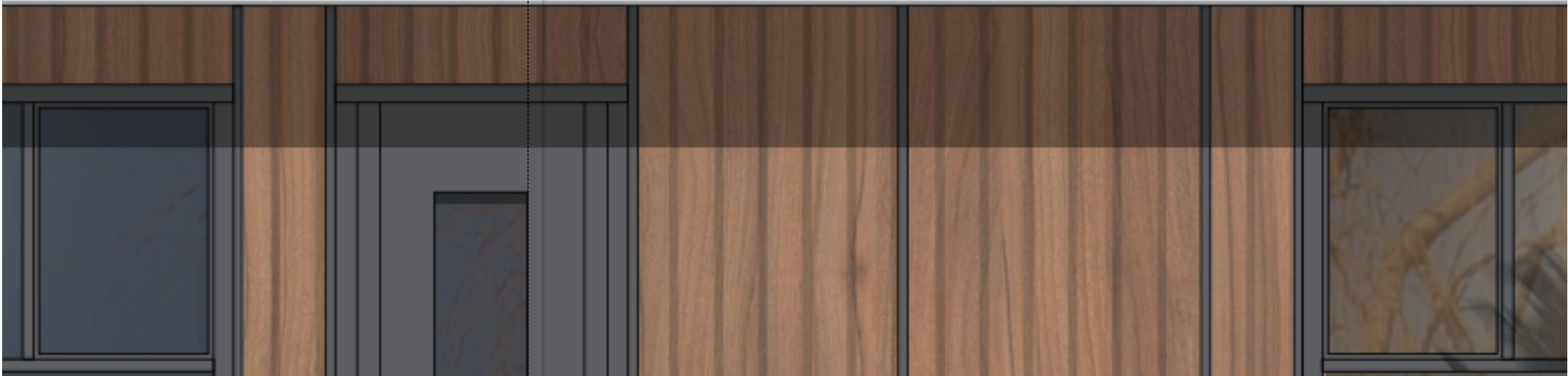
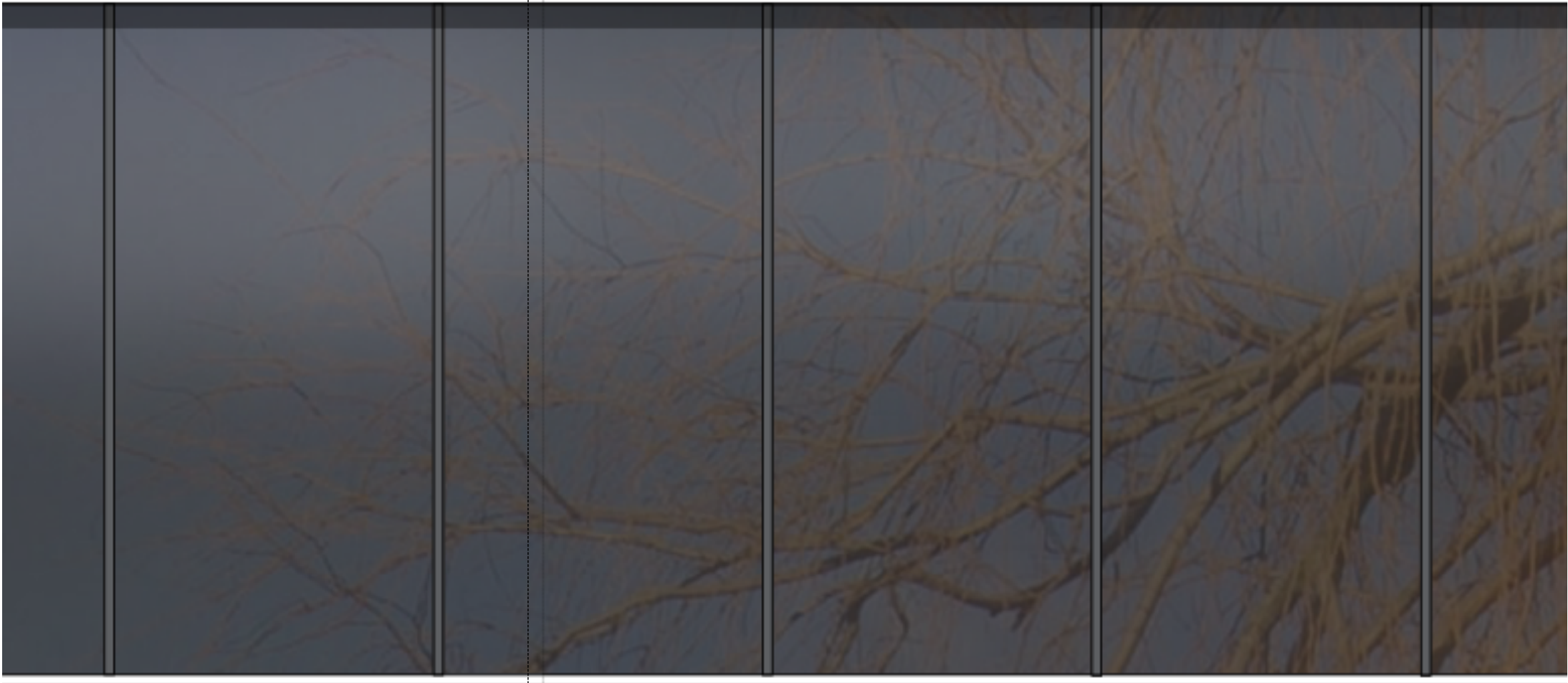




+ 19600



+ 16800





BUILDING

ERA AESTHETICS

DESIGN



157

ERA AESTHETICS



DESIGN

ERA AESTHETICS

DESIGN



ERA AESTHETICS

DESIGN



ERA AESTHETICS

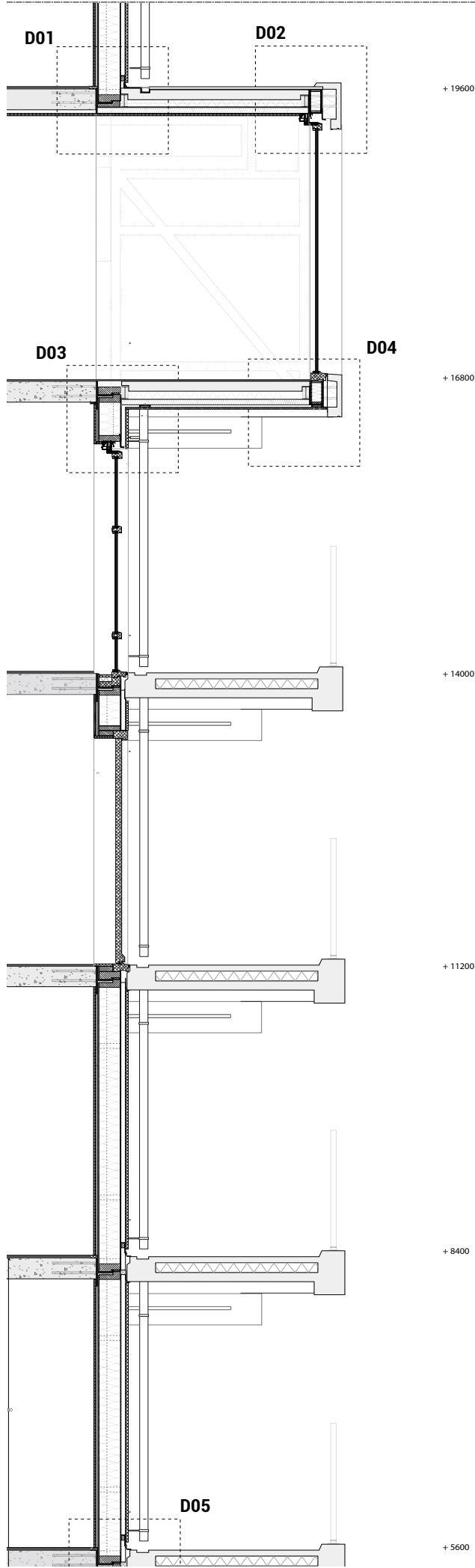
DESIGN



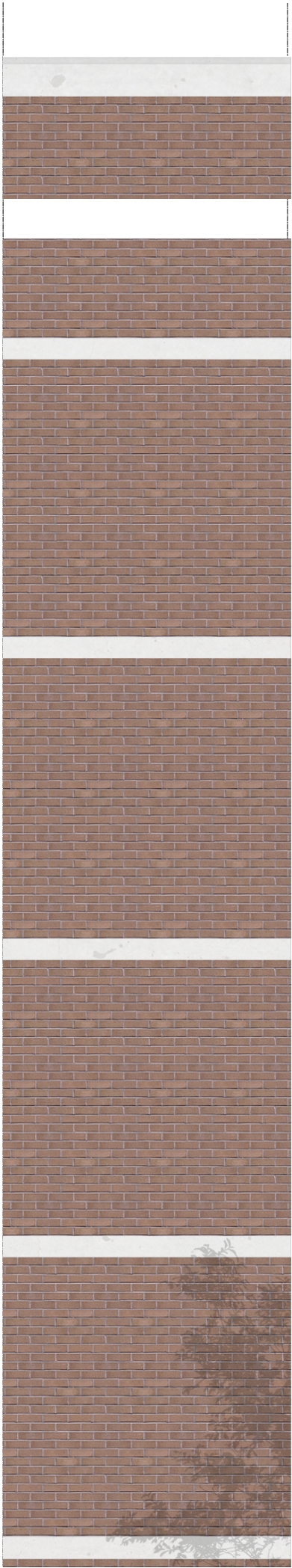
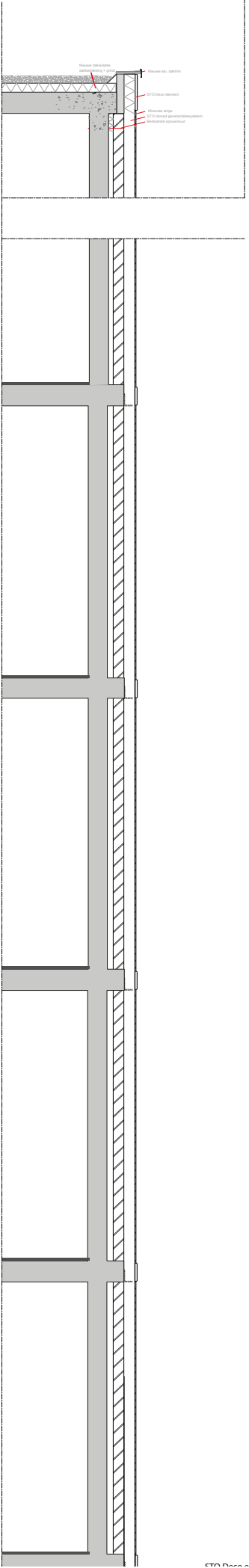
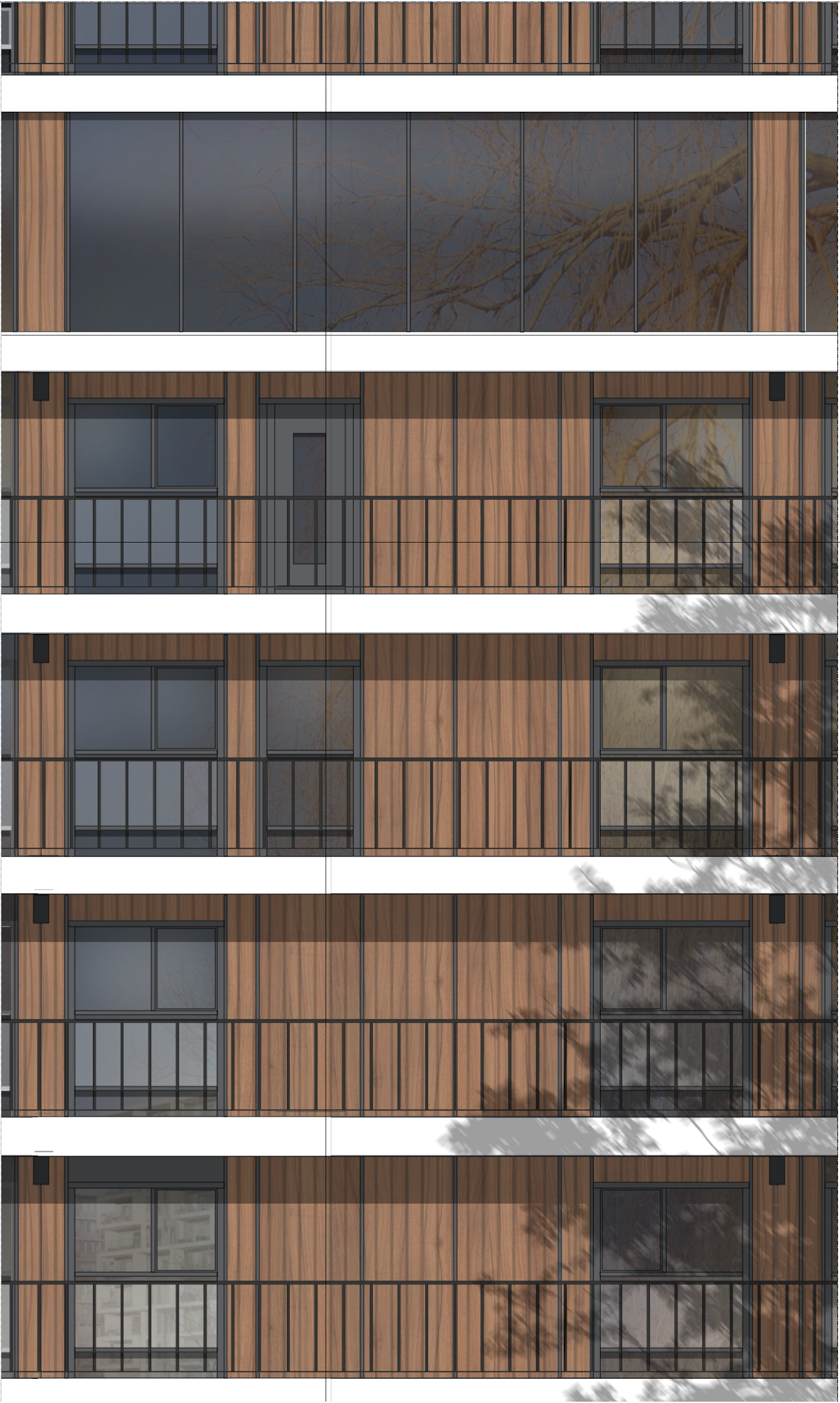


ERA AESTHETICS

DESIGN



B



Anchor p

ERA AESTHETICS

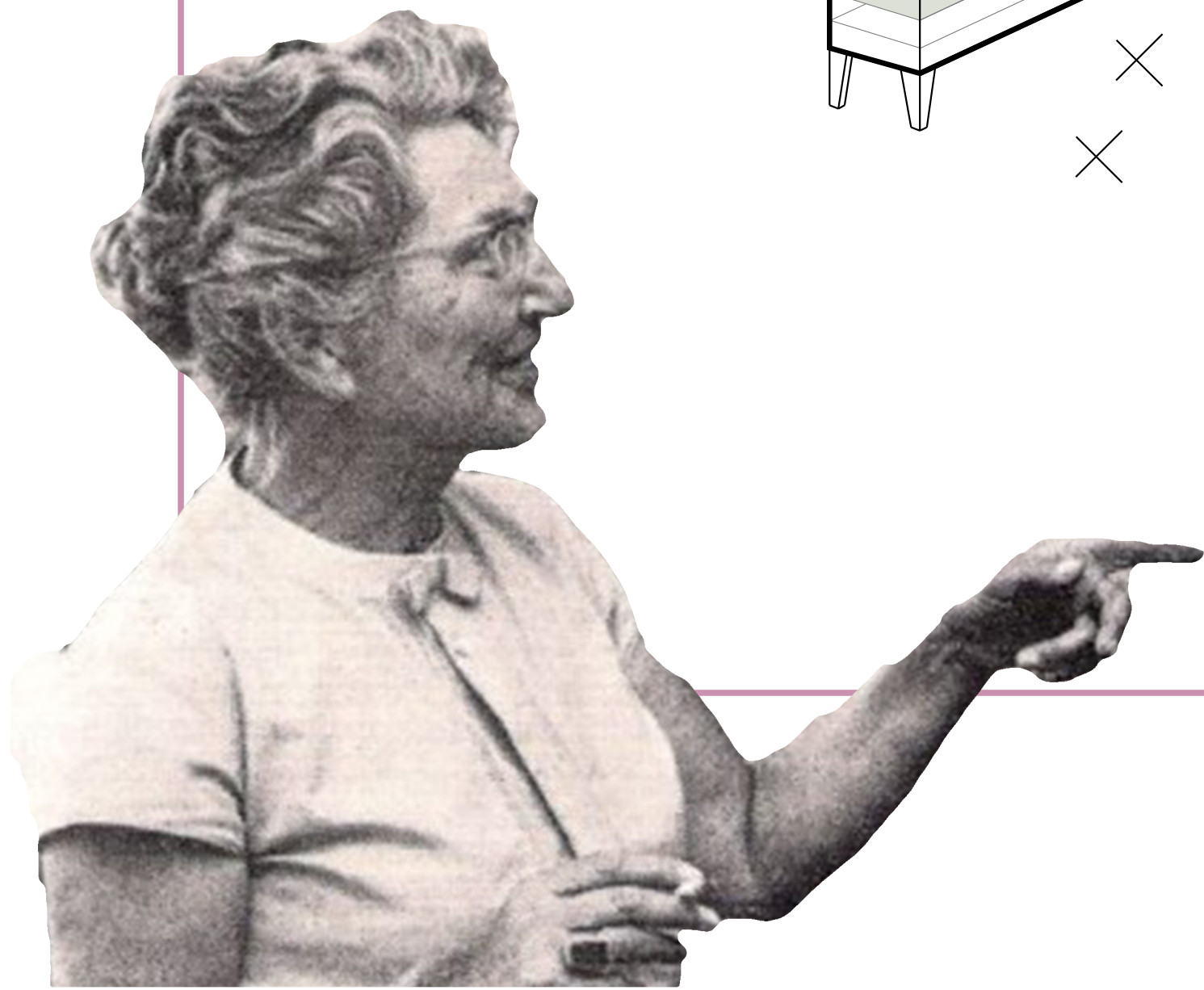
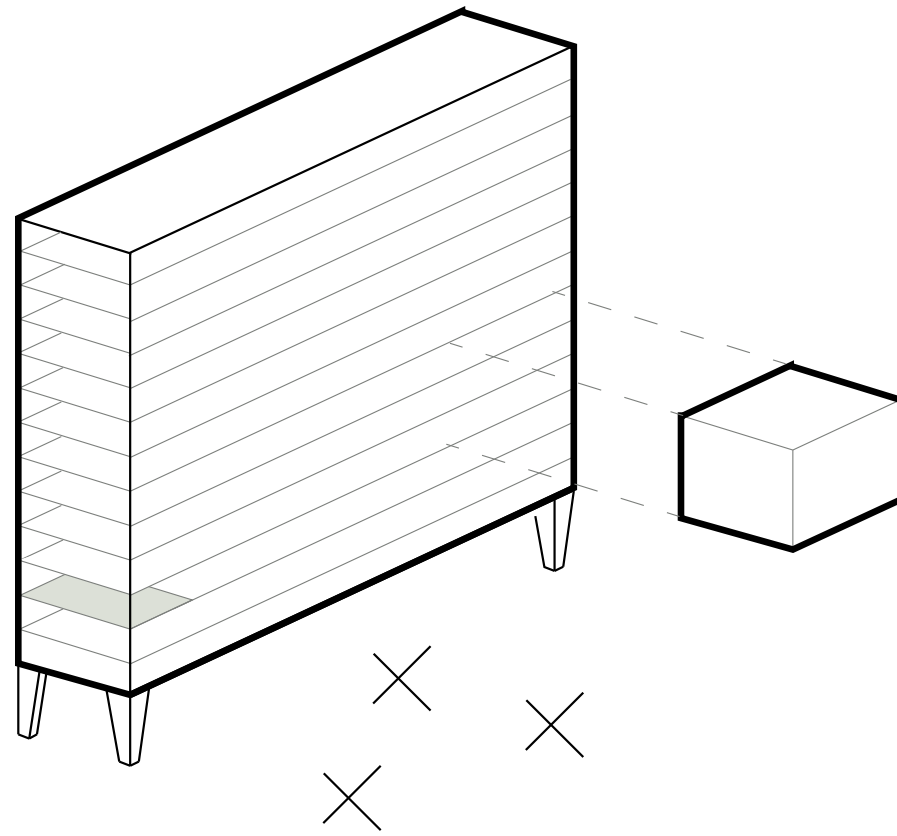
DESIGN



PLINTH & FLEXIBILITY

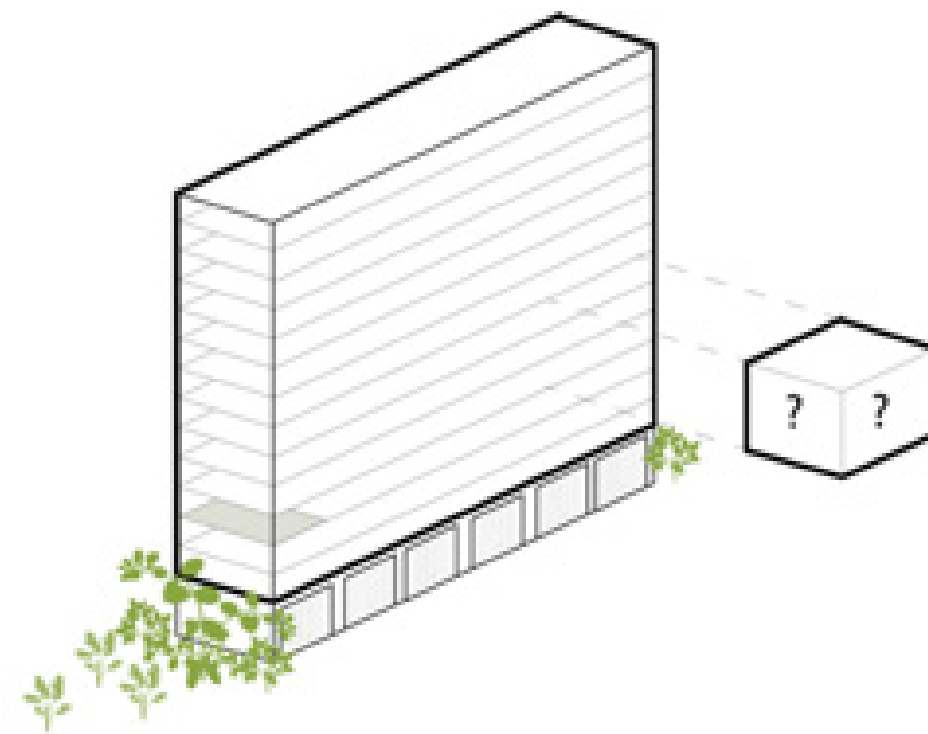
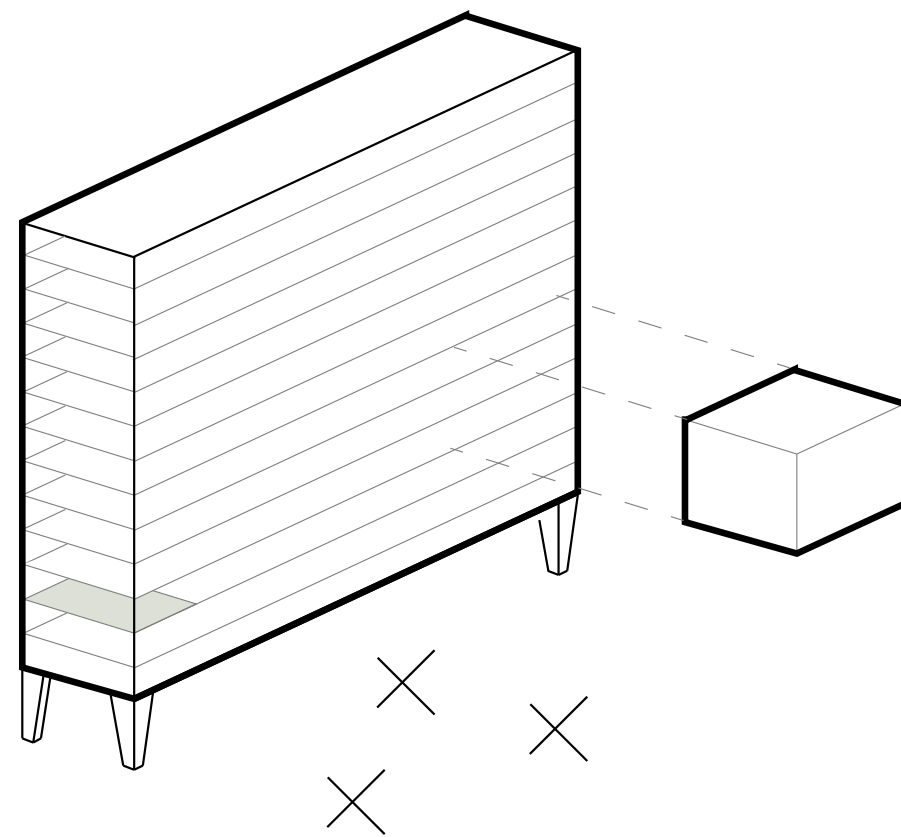


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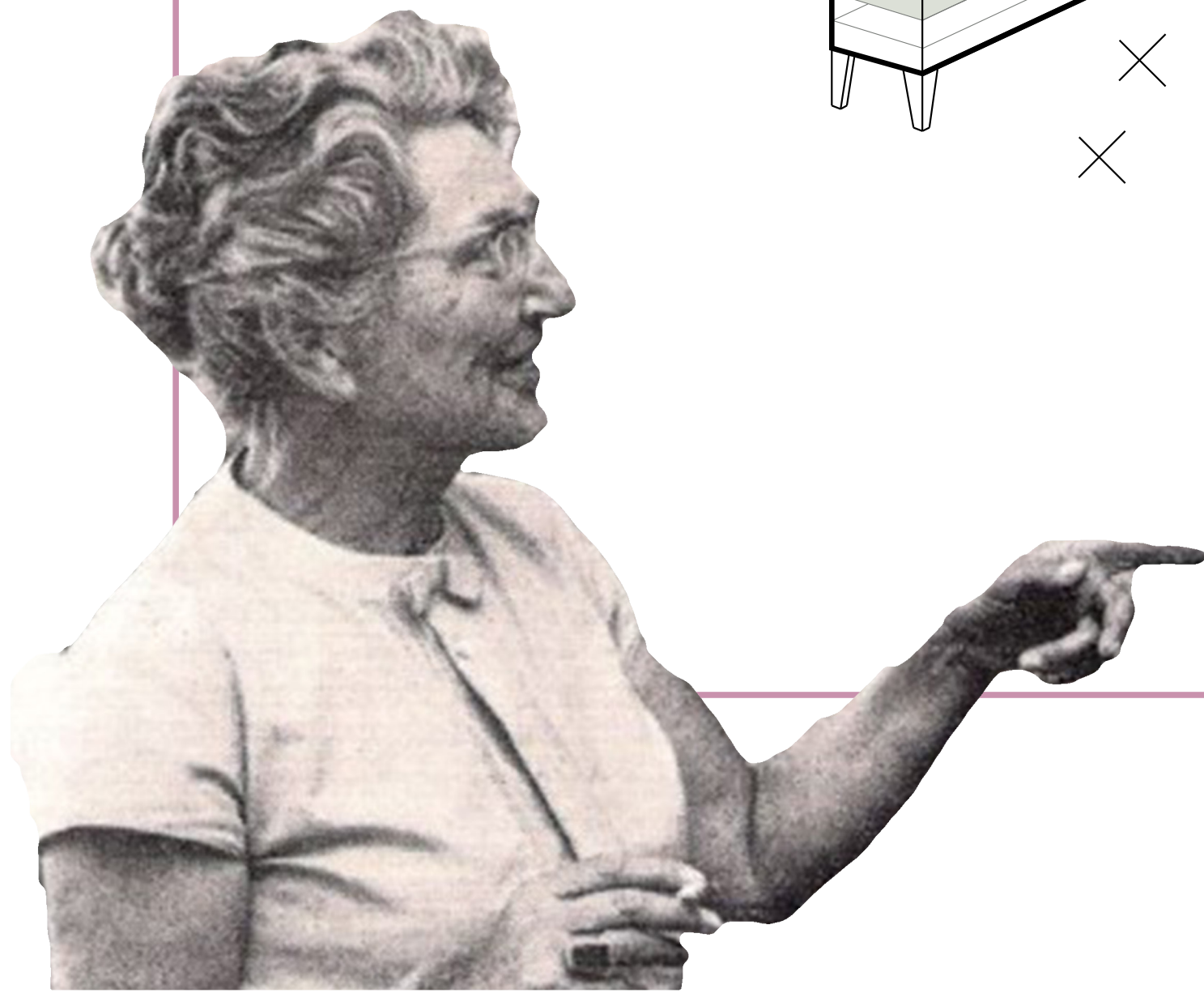
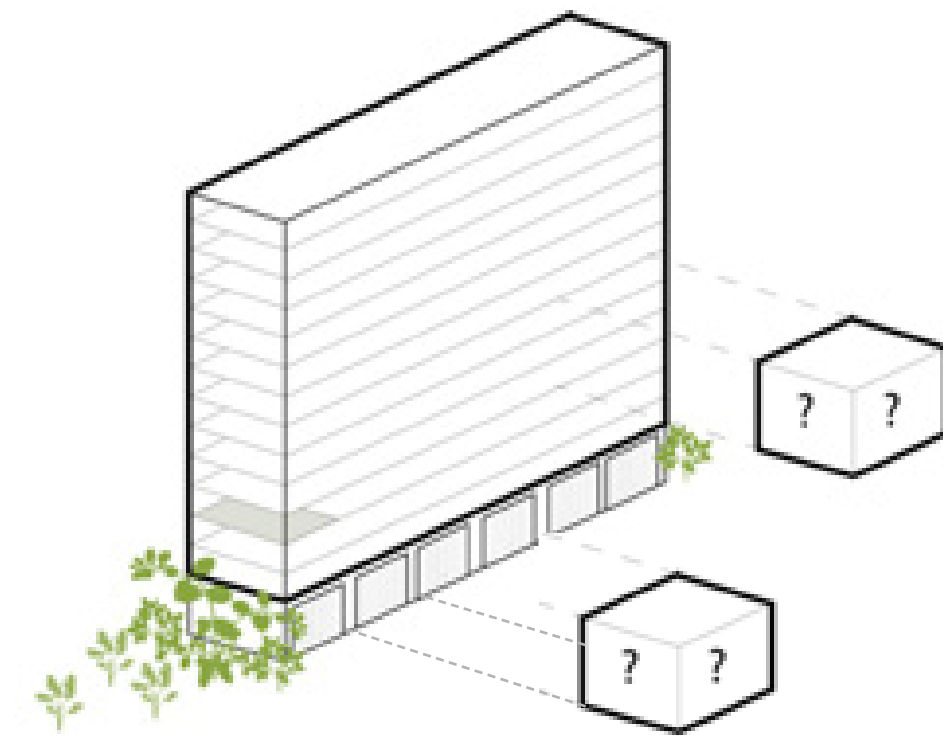
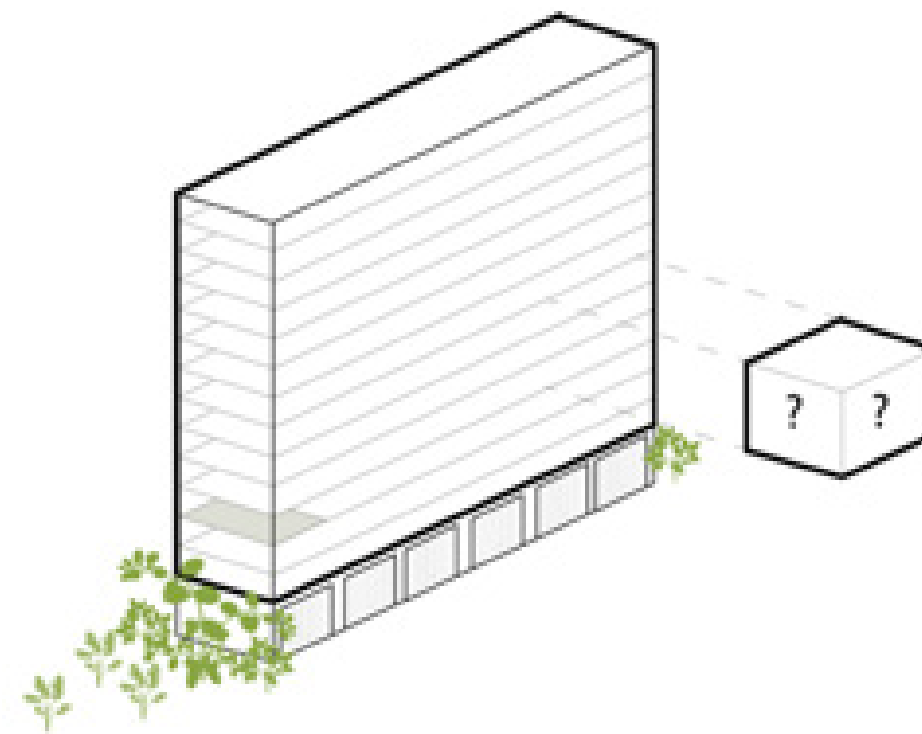
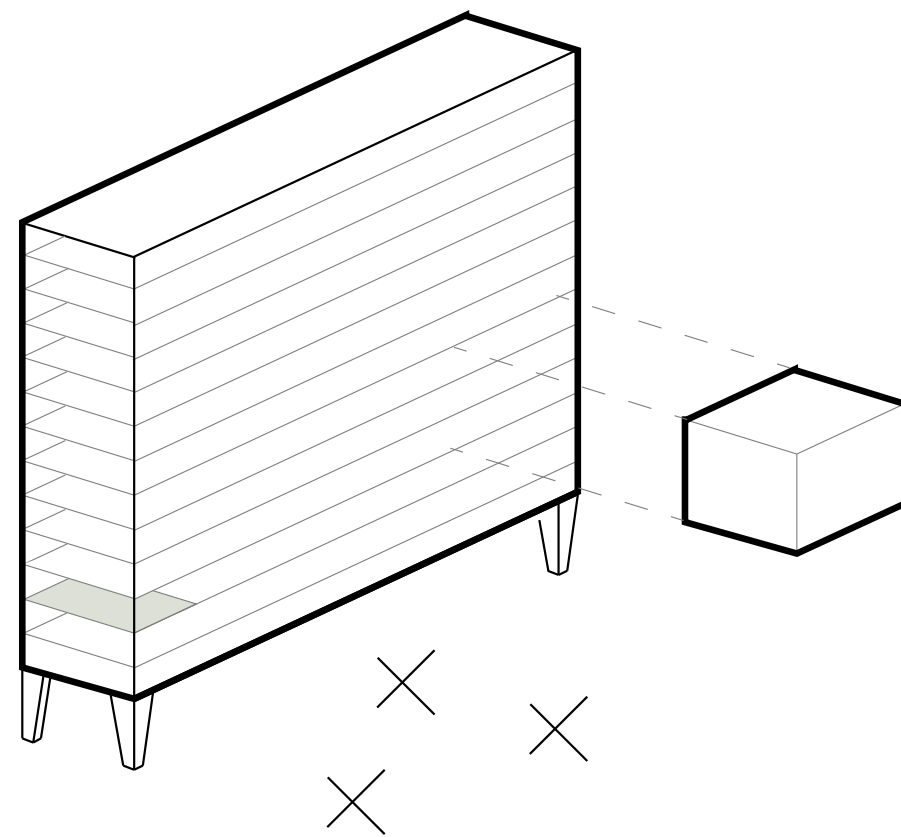




‘CORE’



‘CORE’



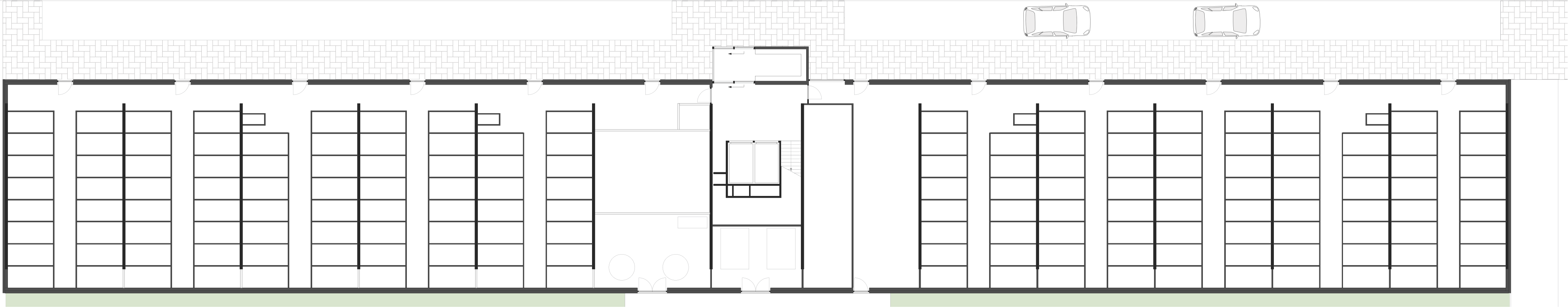
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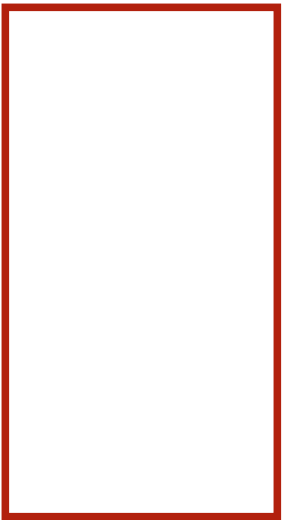


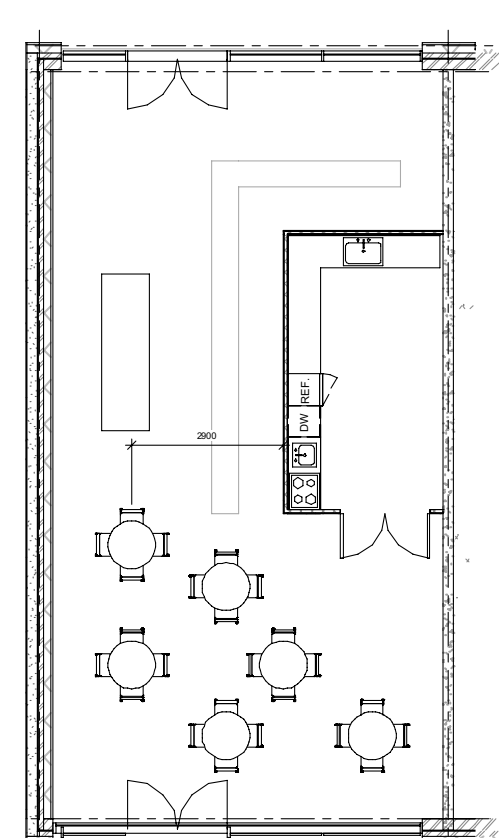
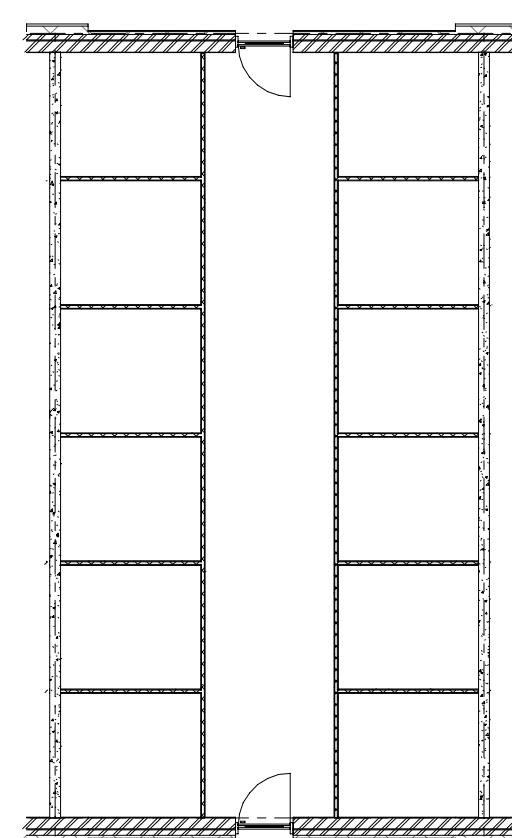
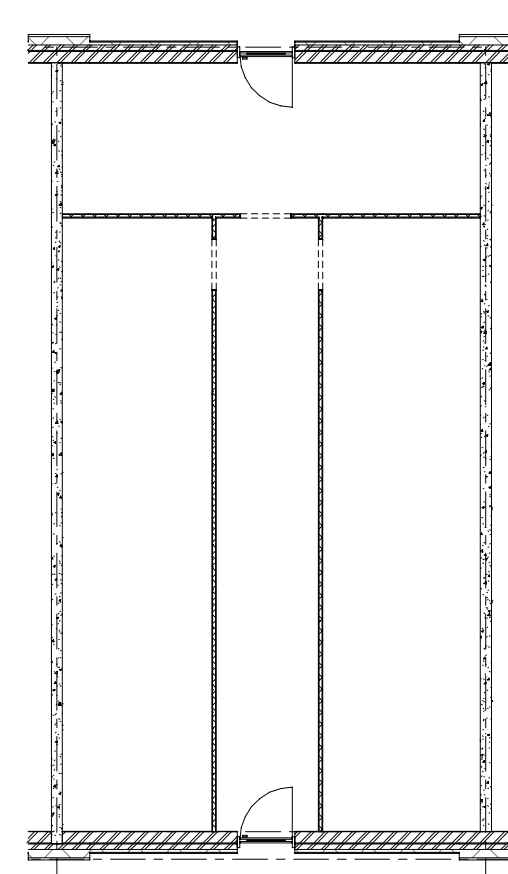
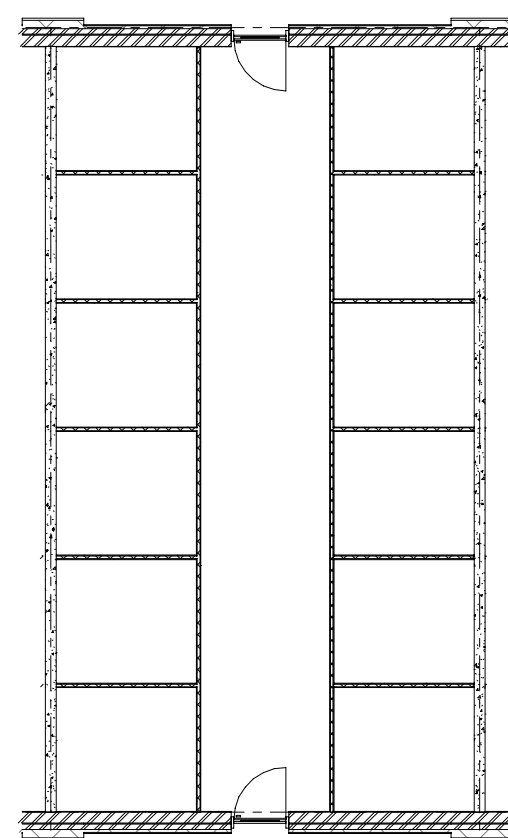
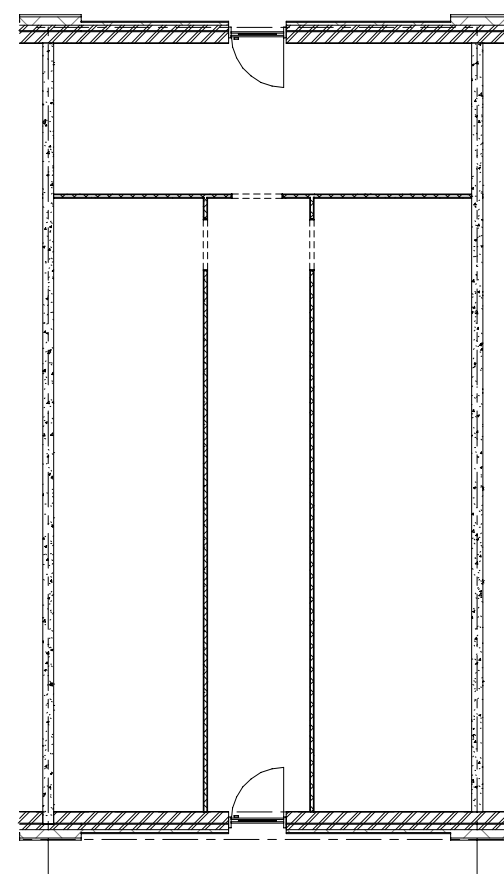
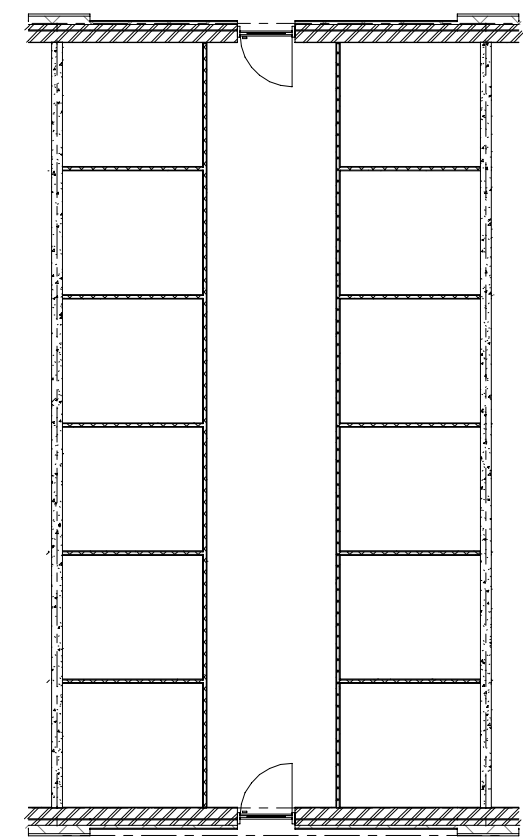
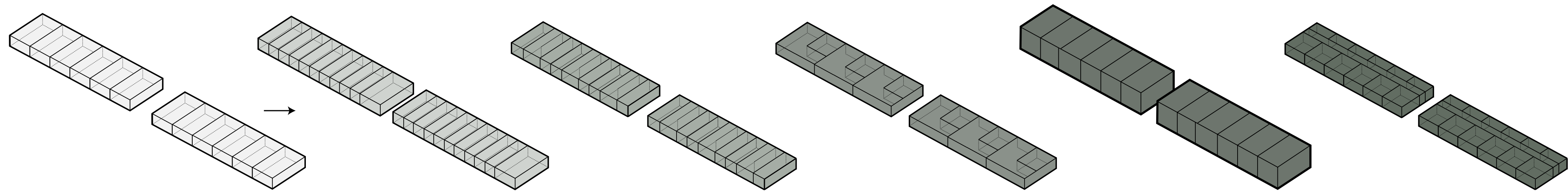


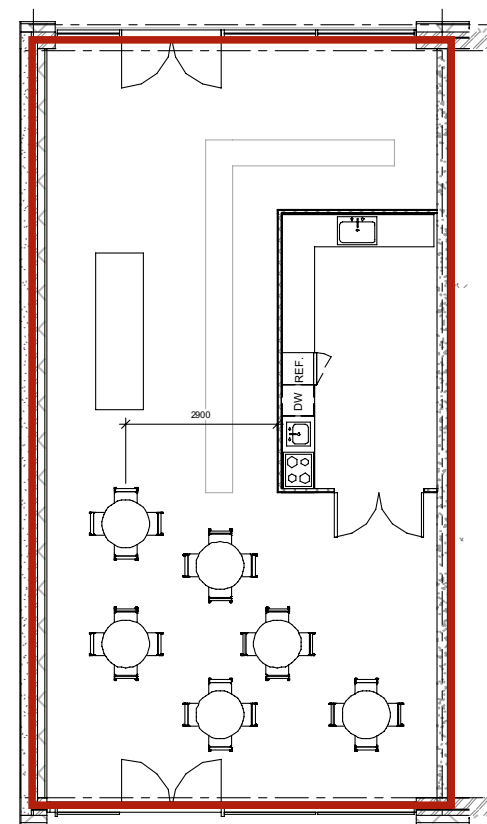
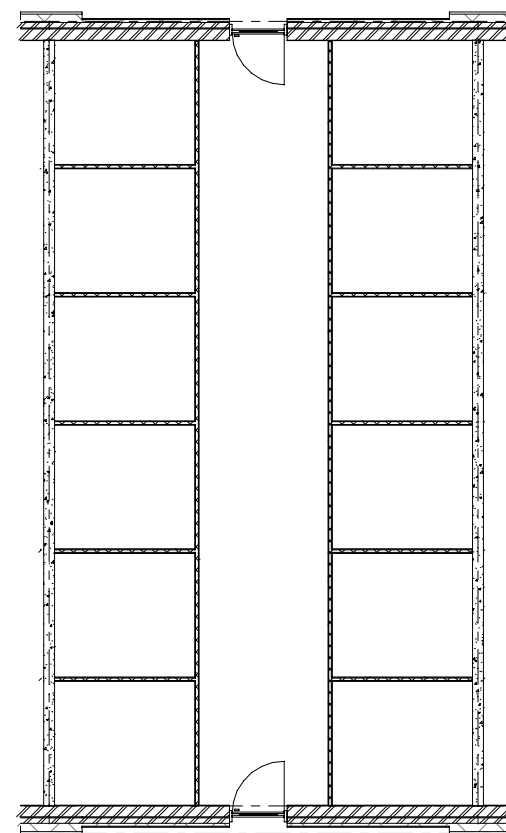
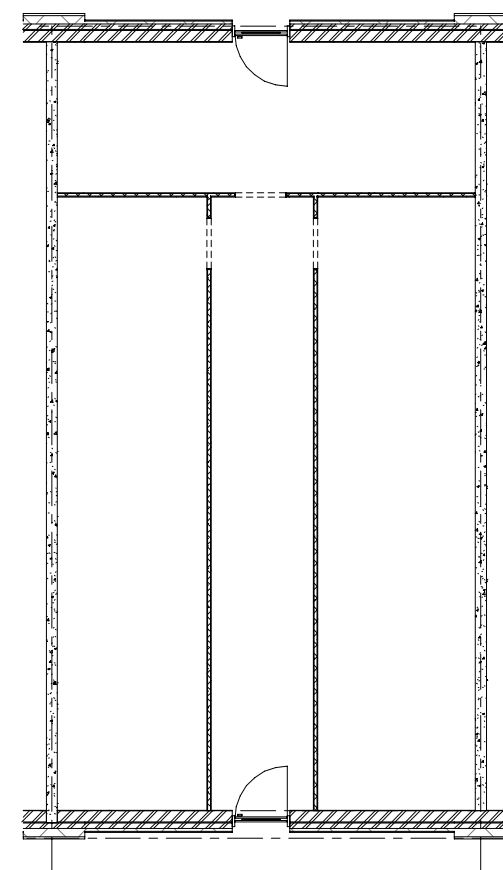
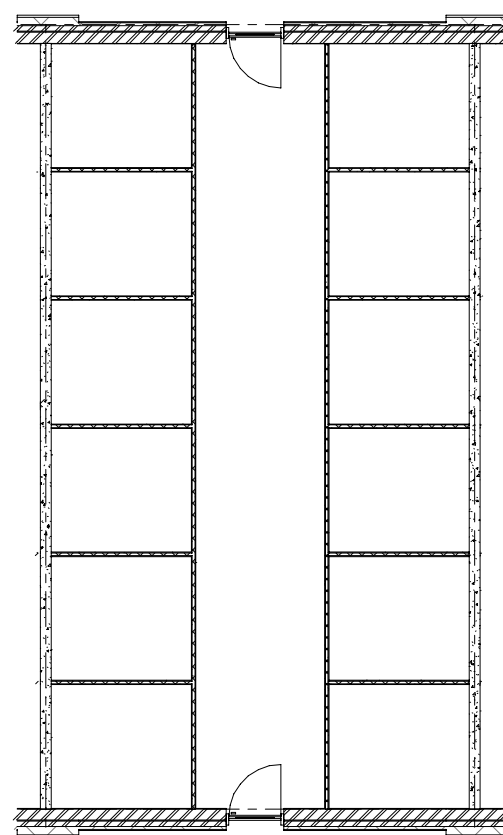
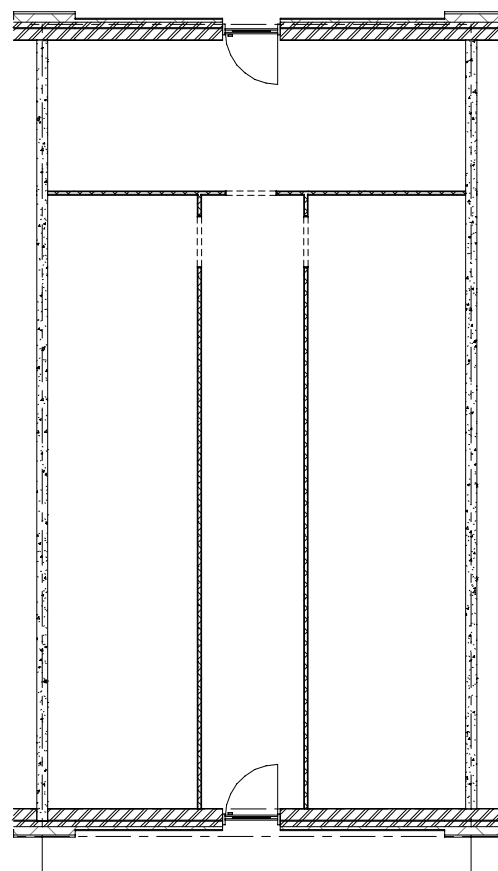
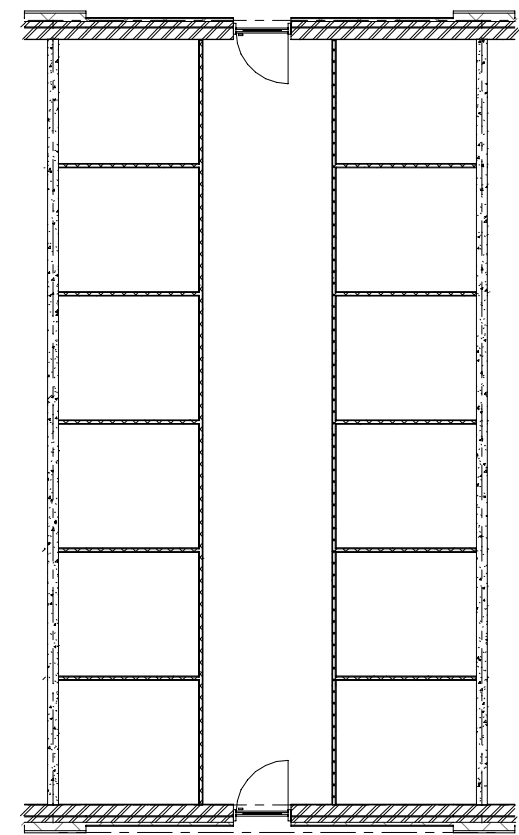
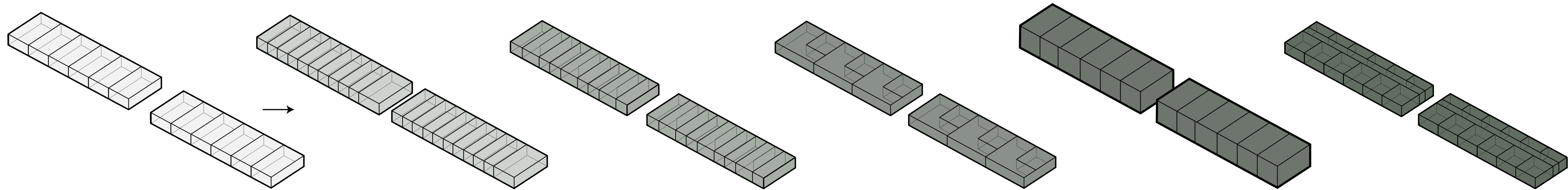


MODERN 'CORES'
BLOOD DEPOSITION
CARDIO
FYSIO
FLEX WORKPLACES (WIFI)
MEETING FACILITIES
HUISARTSENPOST
CATERING
DAGBESTEDING
NEIGHBOURHOOD CAFE

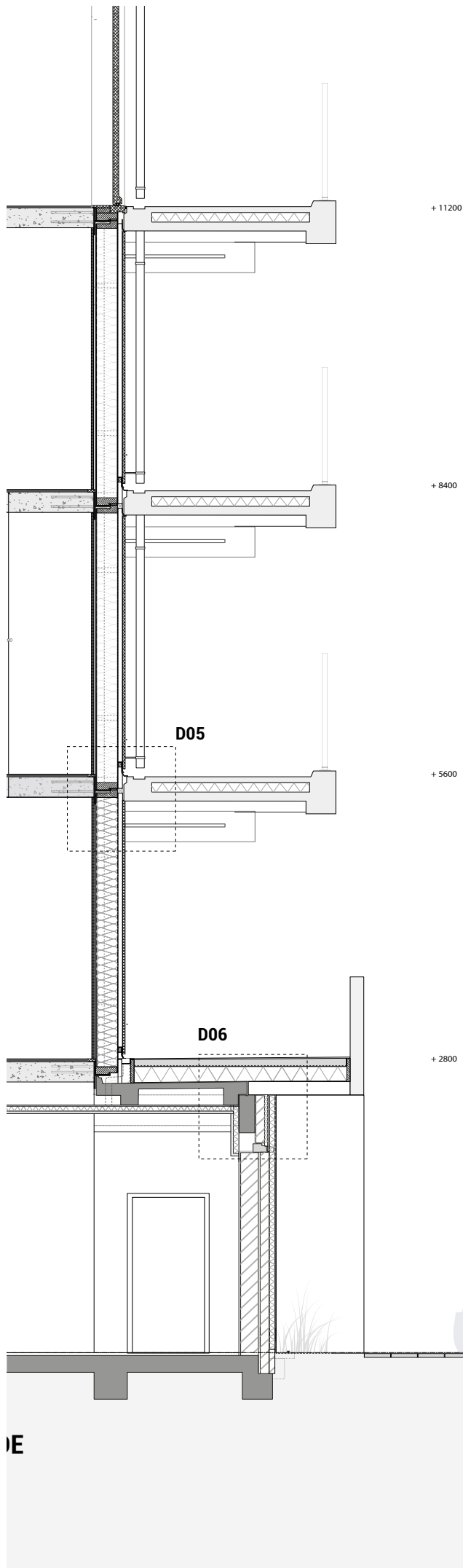




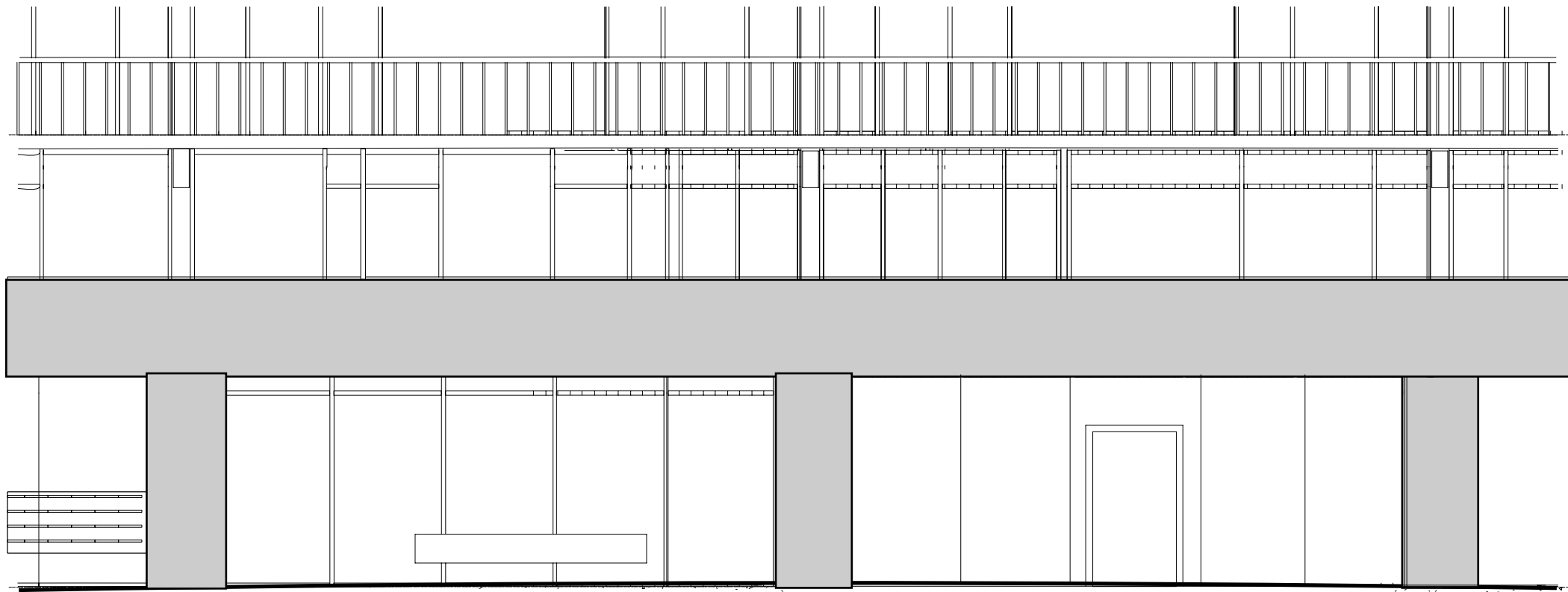
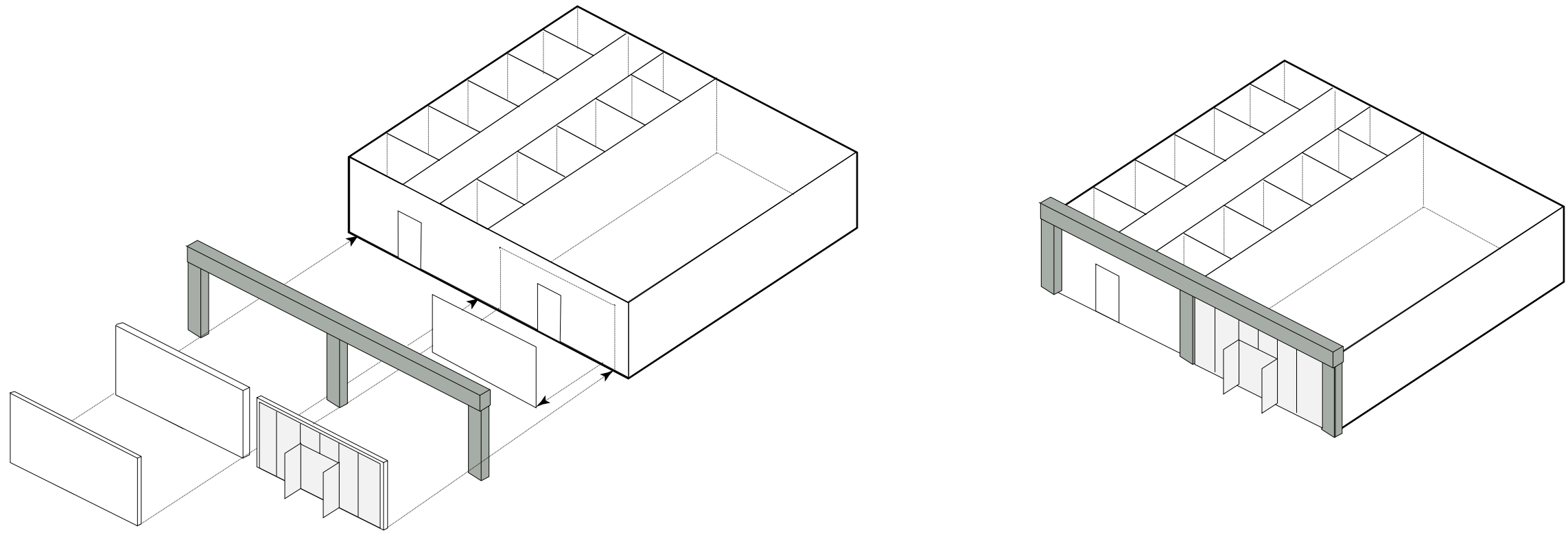


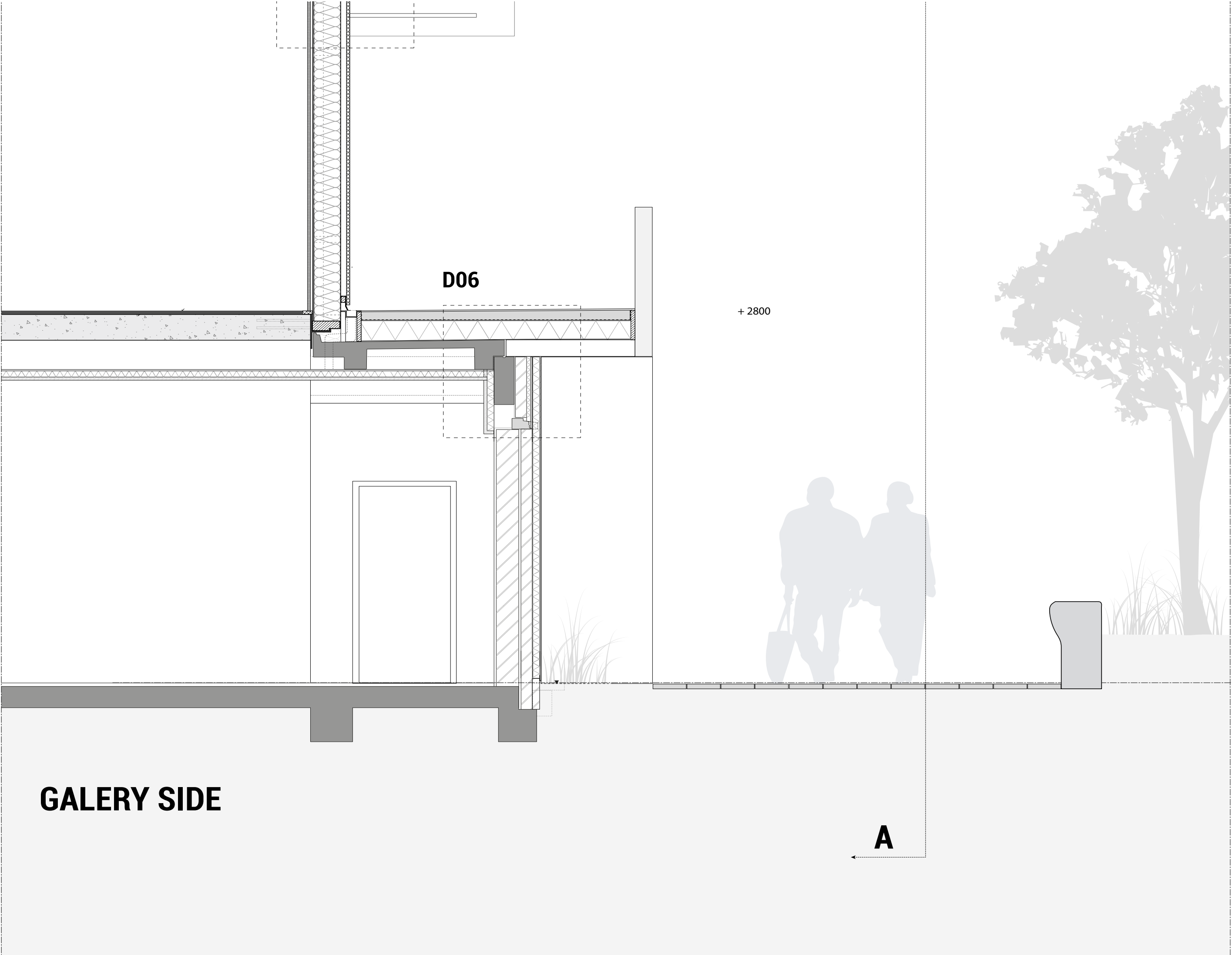




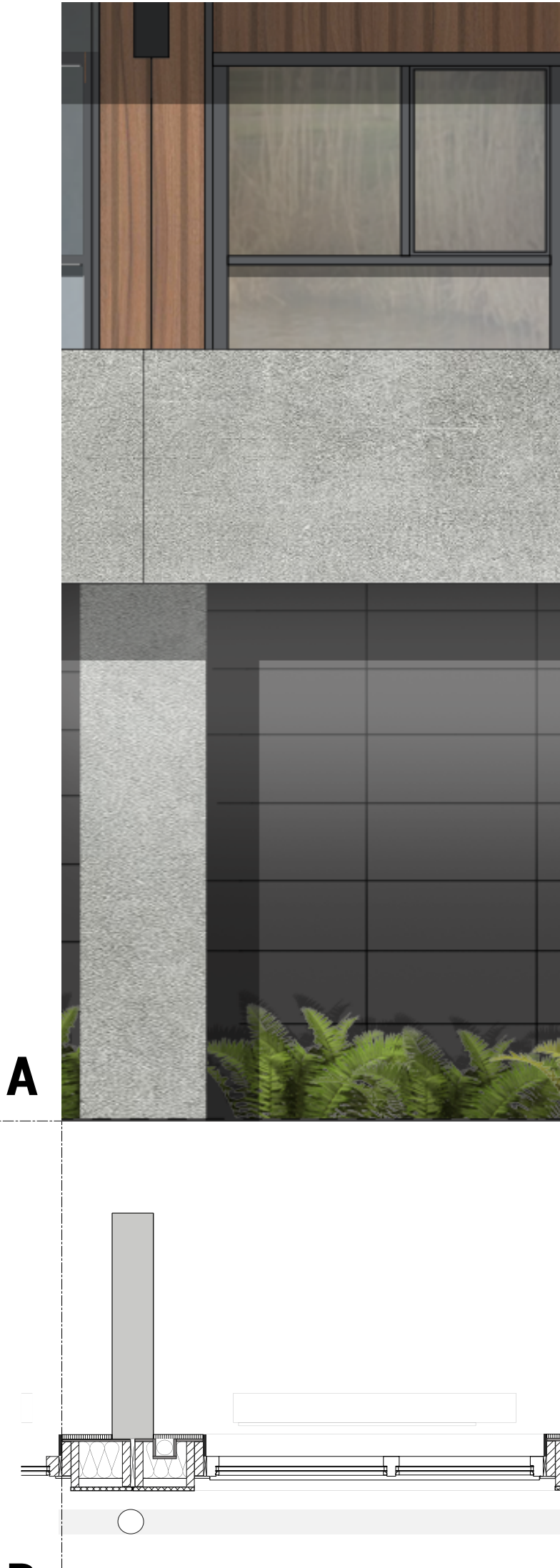


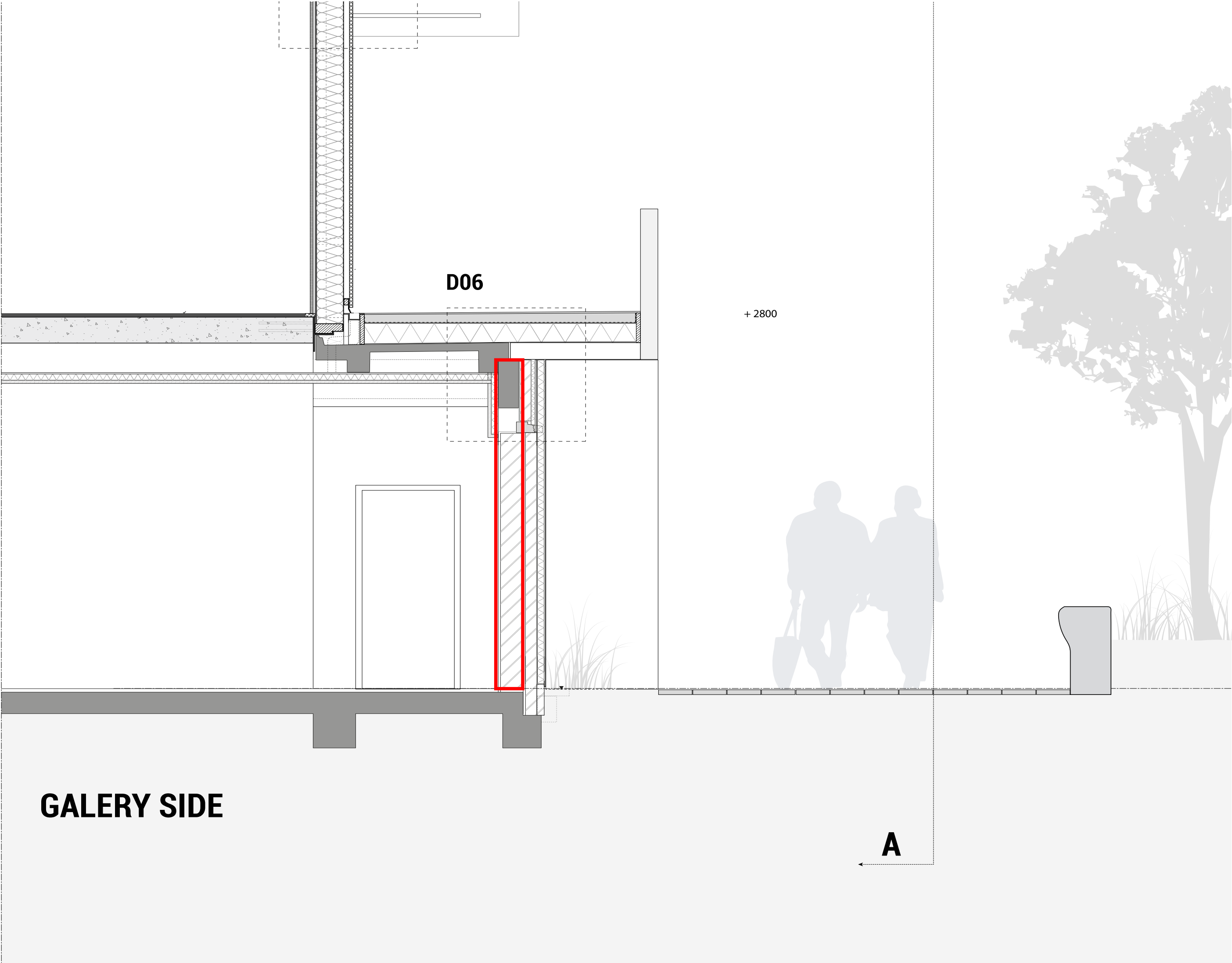
IE





GALLERY SIDE







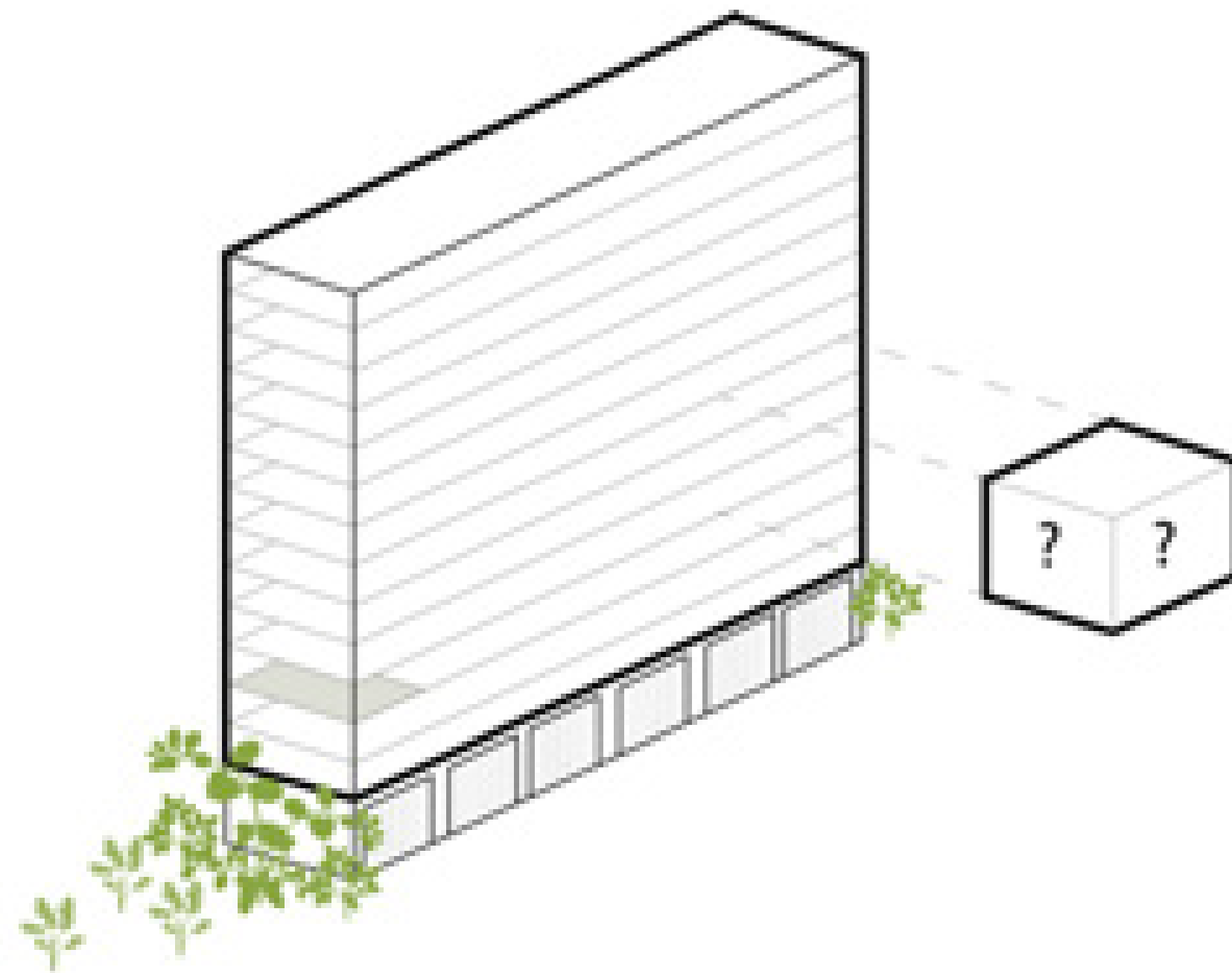






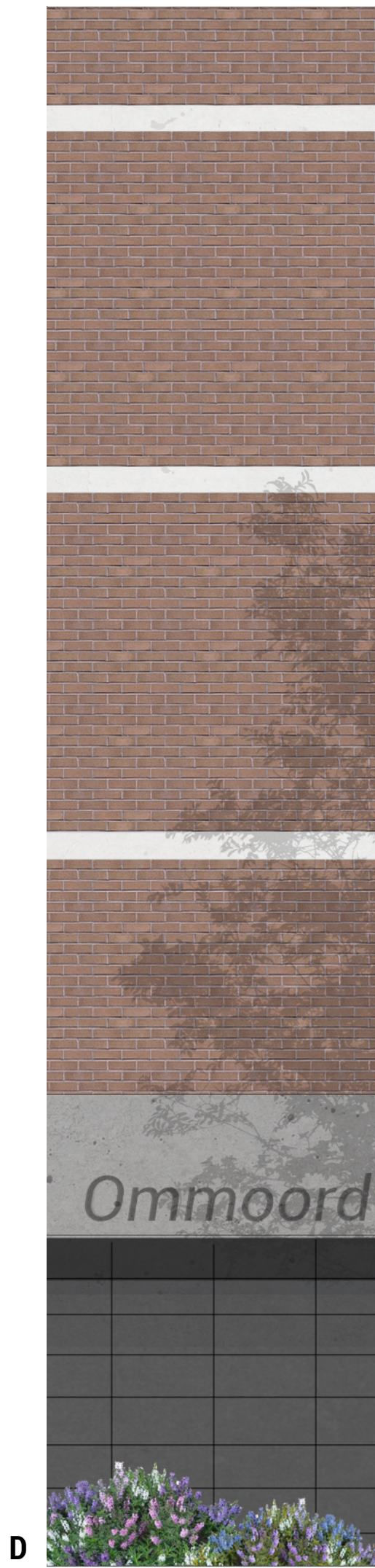
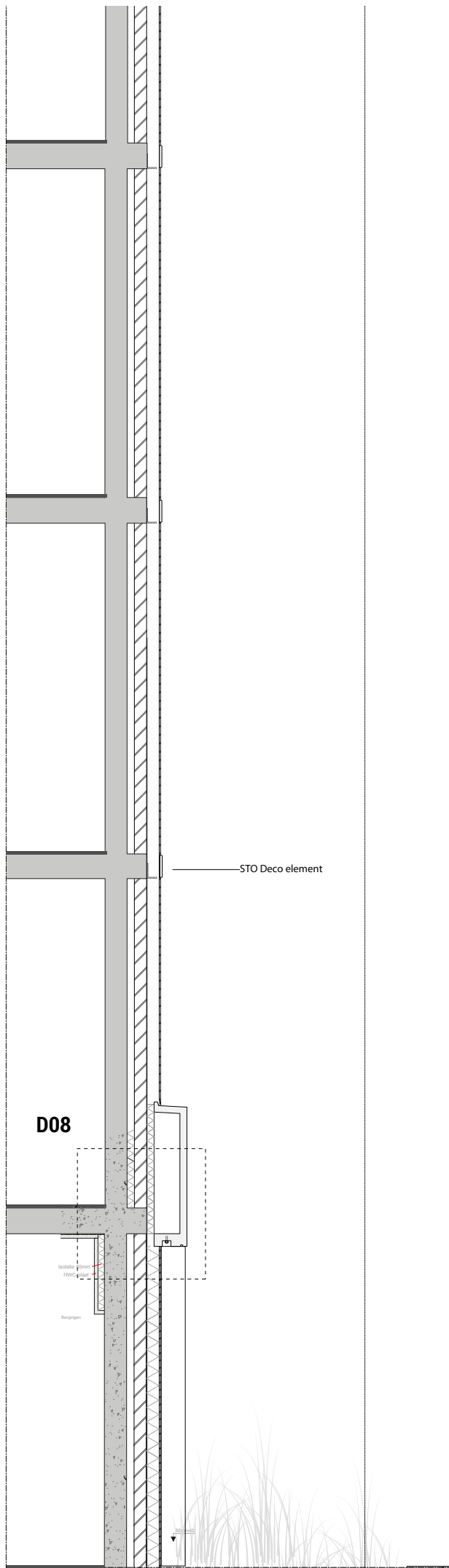
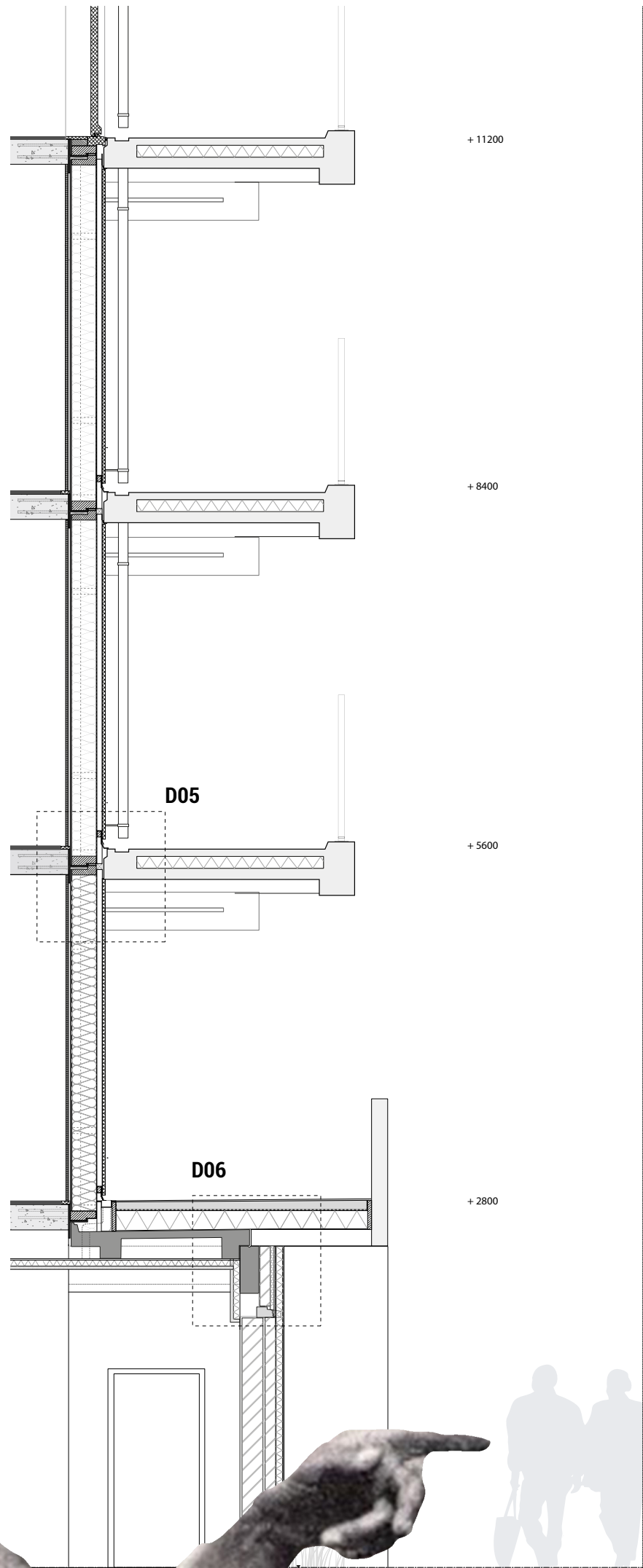
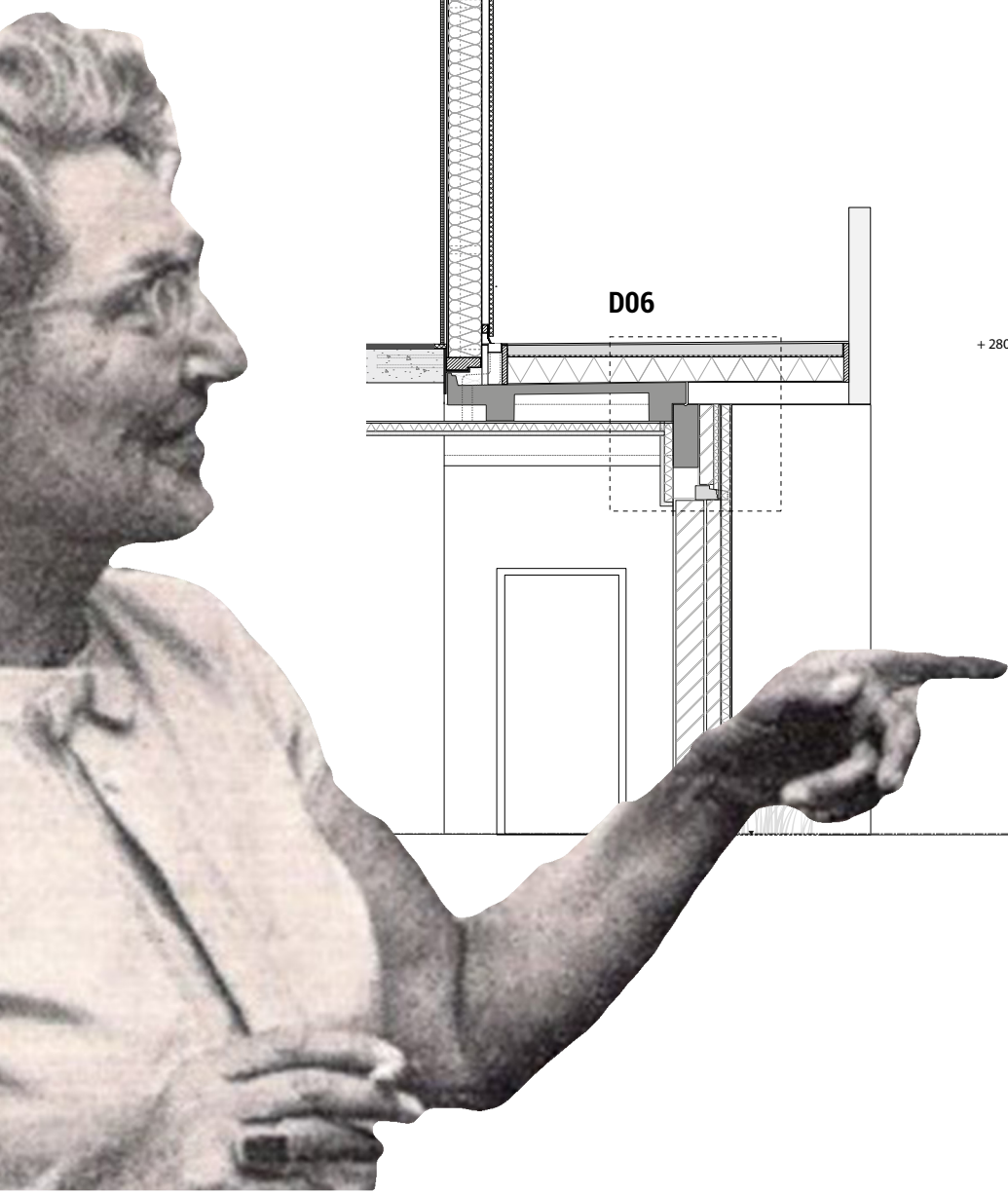
SOFTNENING GREEN





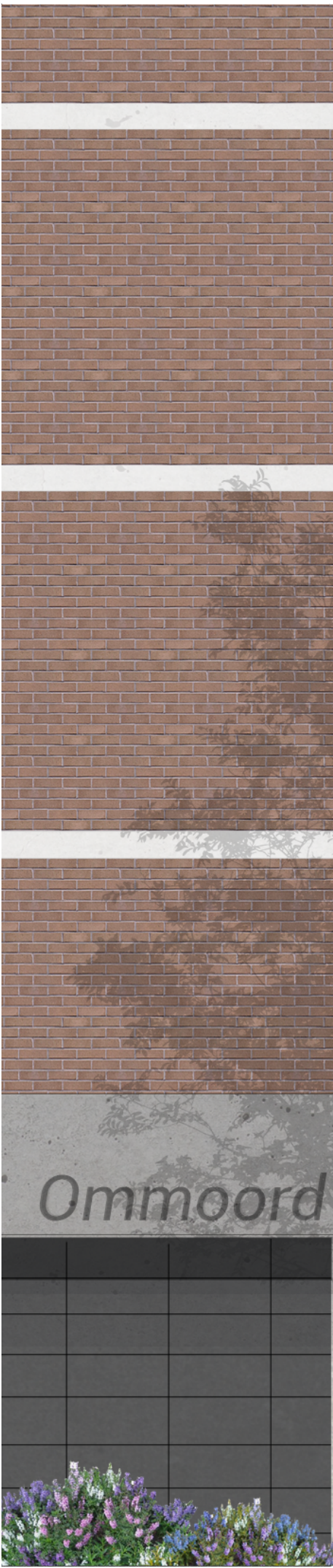
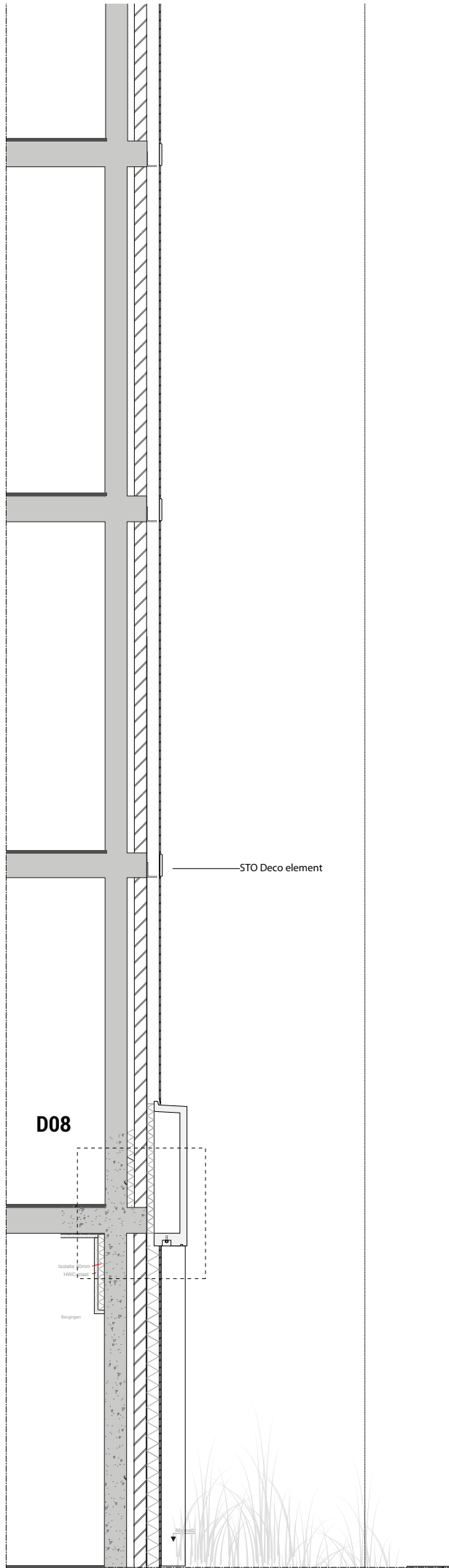
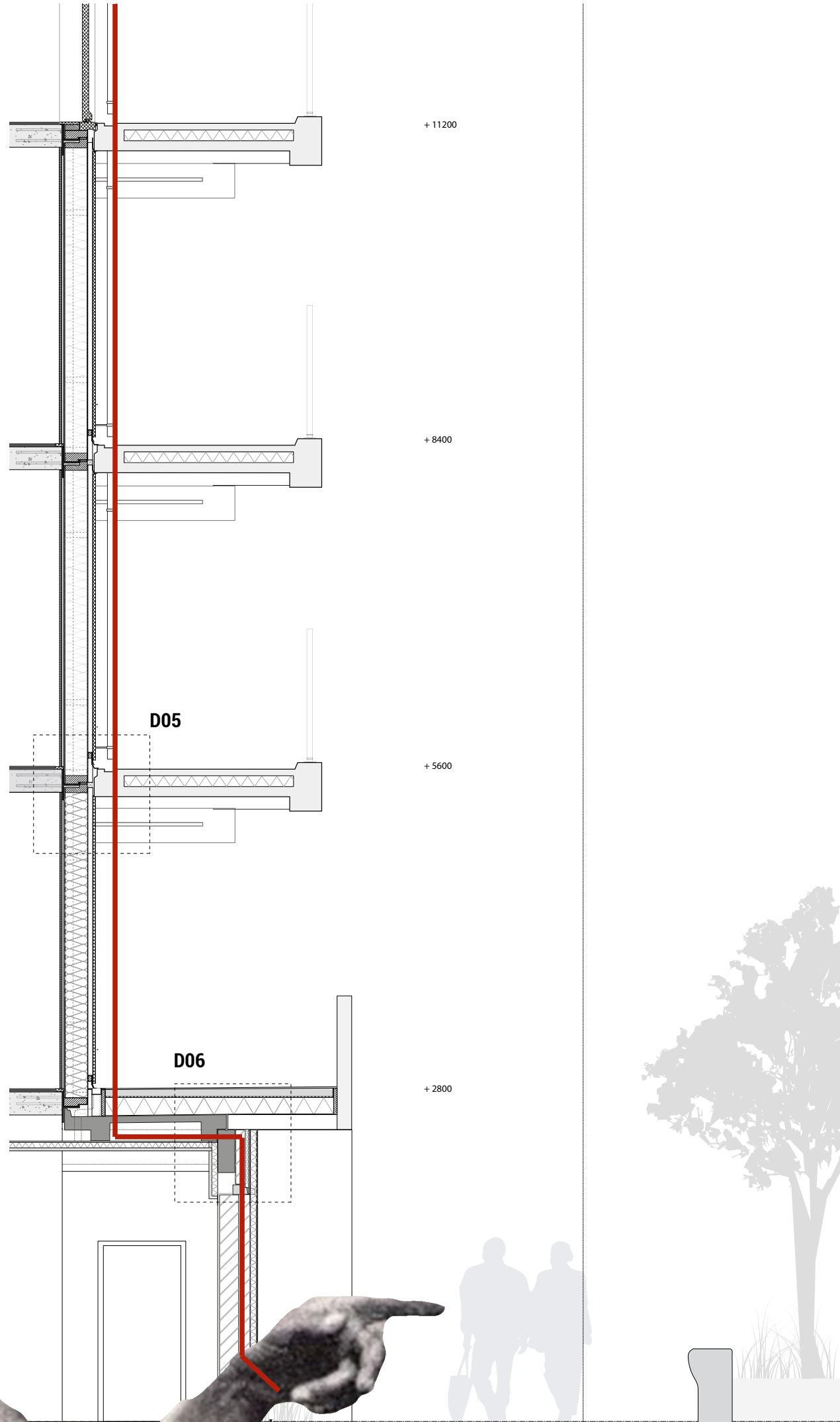




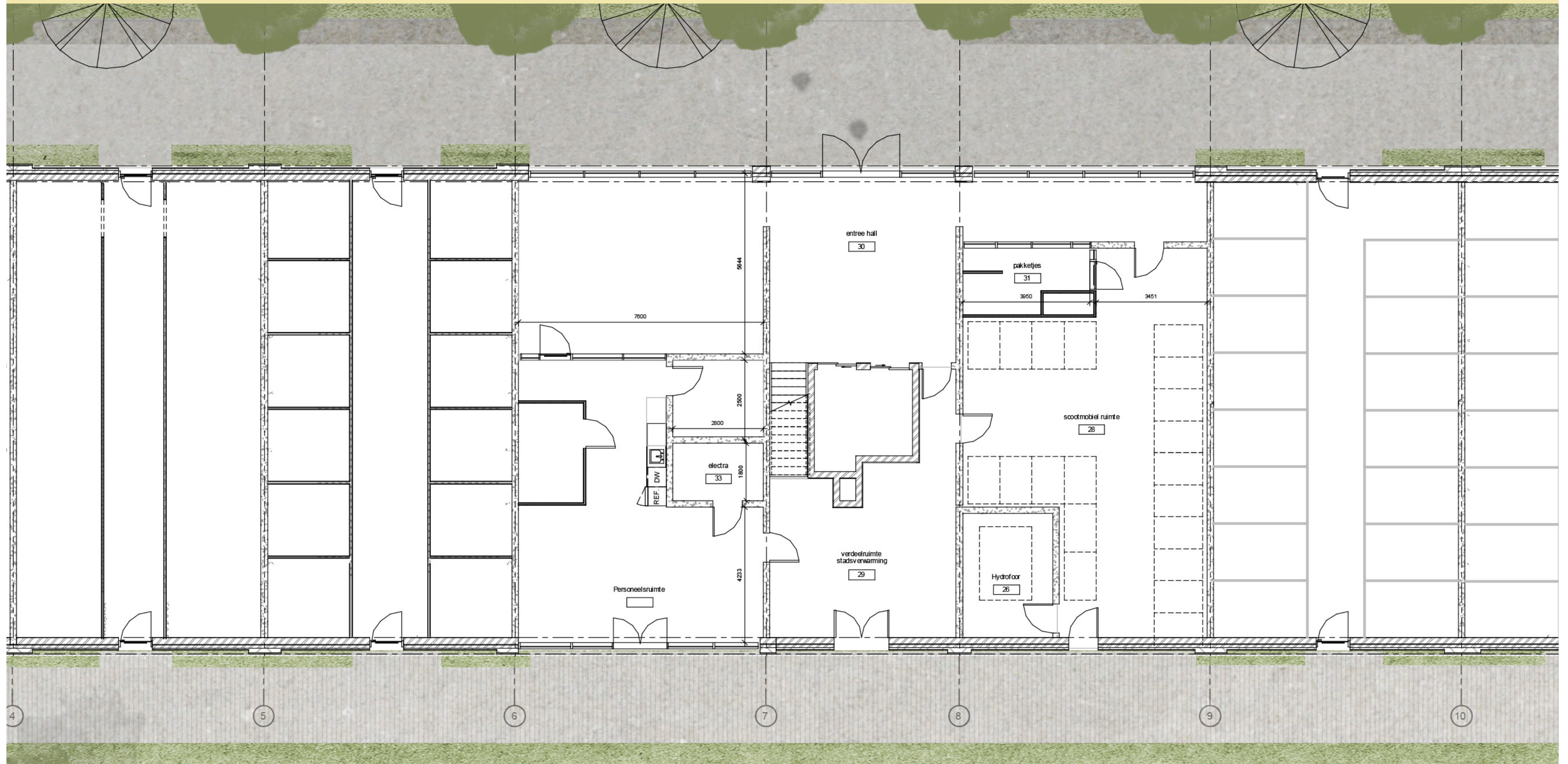


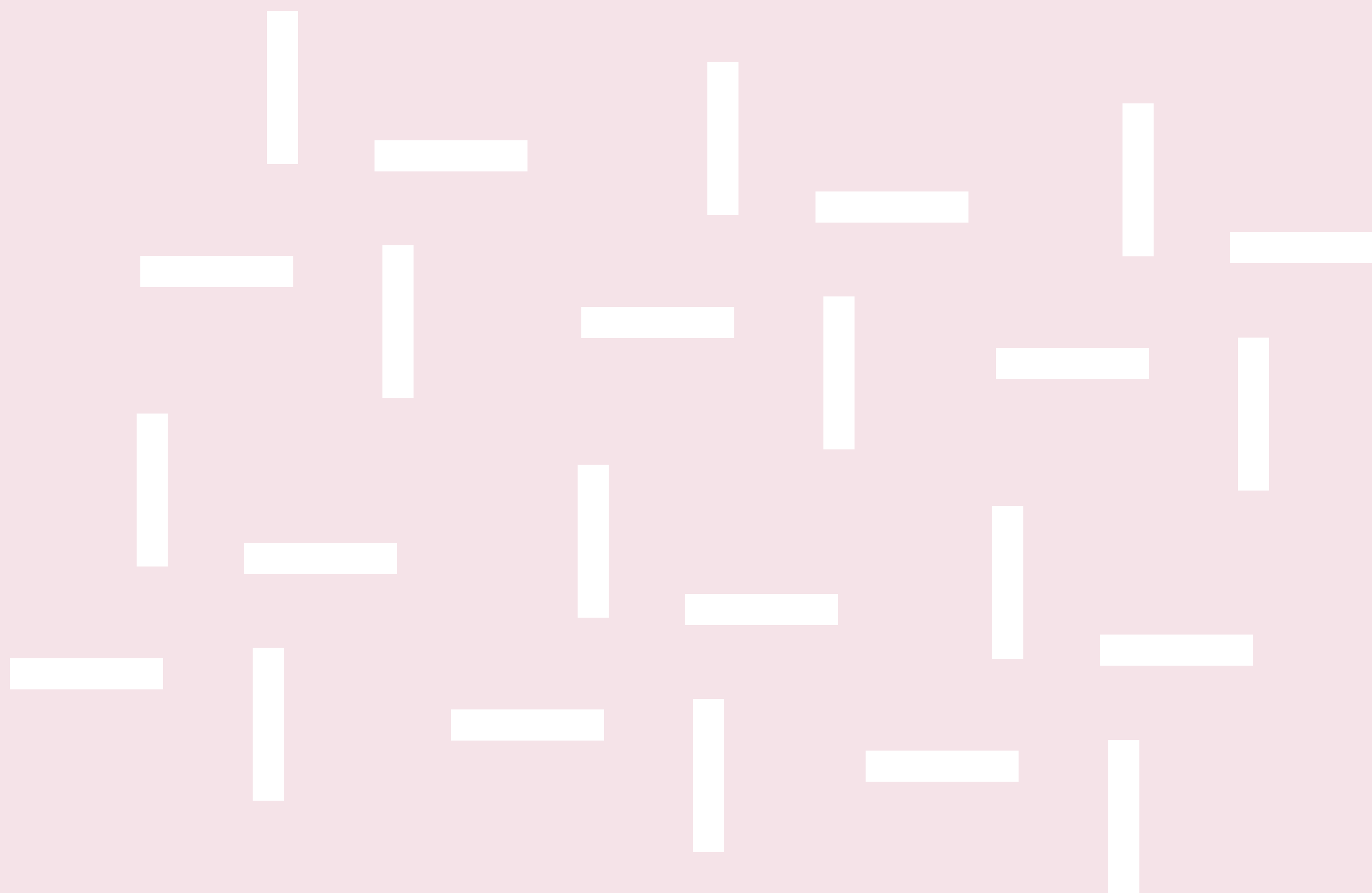
HWA

DESIGN









THE NETWORK





FROM STROLER DISTANCE

400 M

TO ROTATOR DISTANCE
300 M





USE PATHWAY SYSTEM TO ENLARGE MOBILITY OF ELDERLY

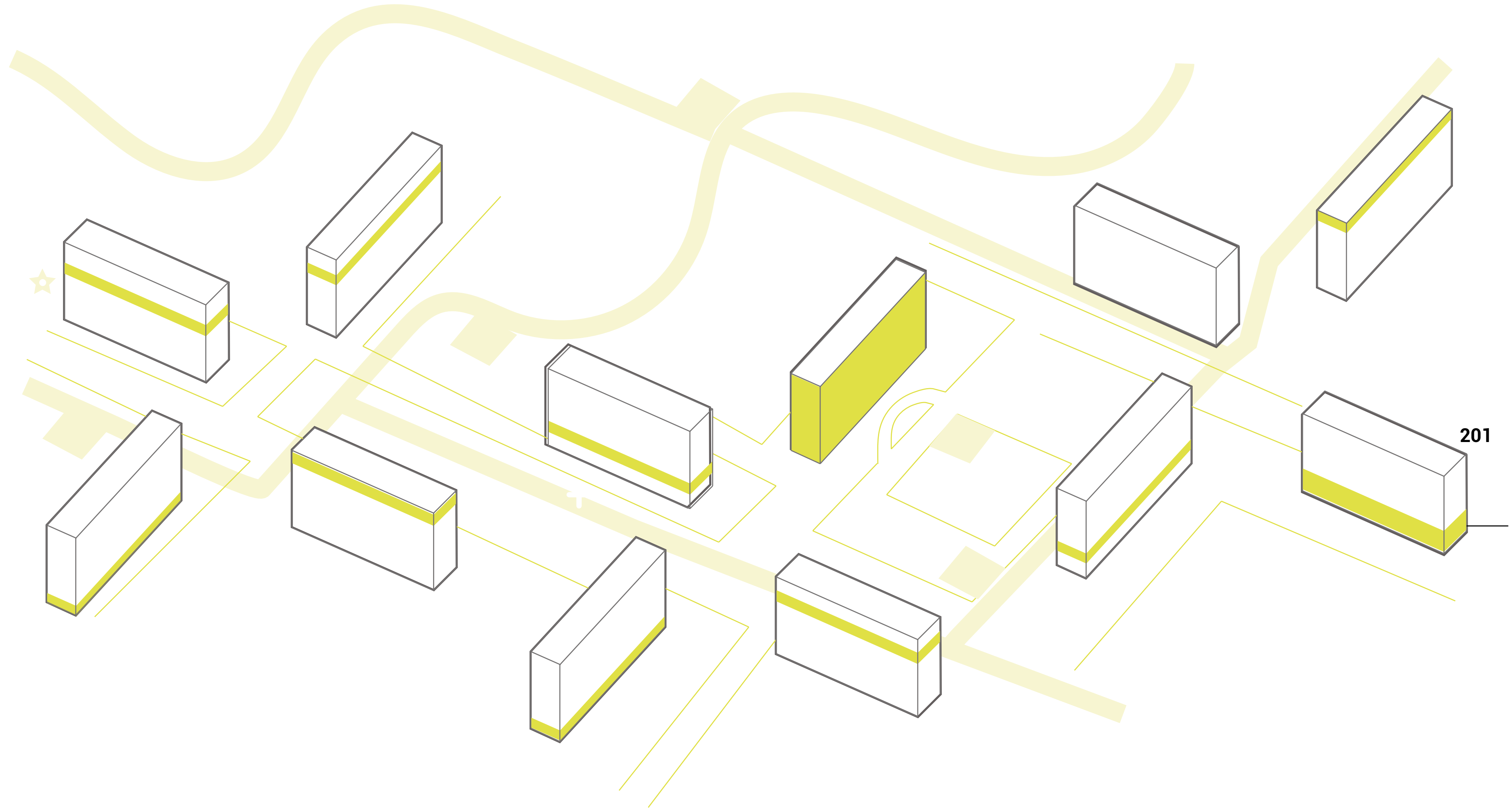


CONCEPT

- Transformation of apartments can take place in every building.

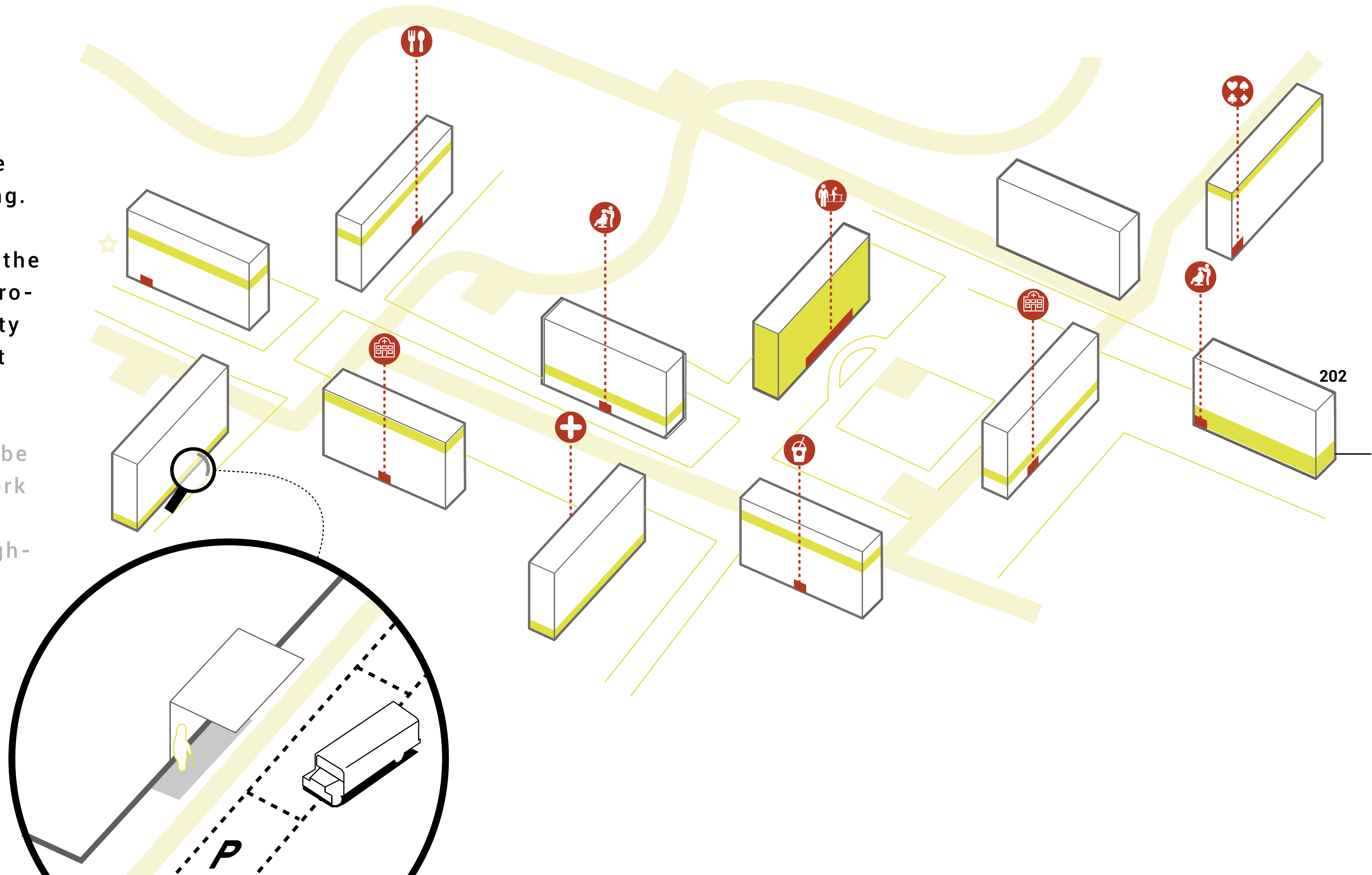
- Transformation of the neighbourhood will provide for better: mobility, accessibility, comfort and safety.

- New hotspots will be connected to a network of walking paths that runs through the neighbourhood.



CONCEPT★

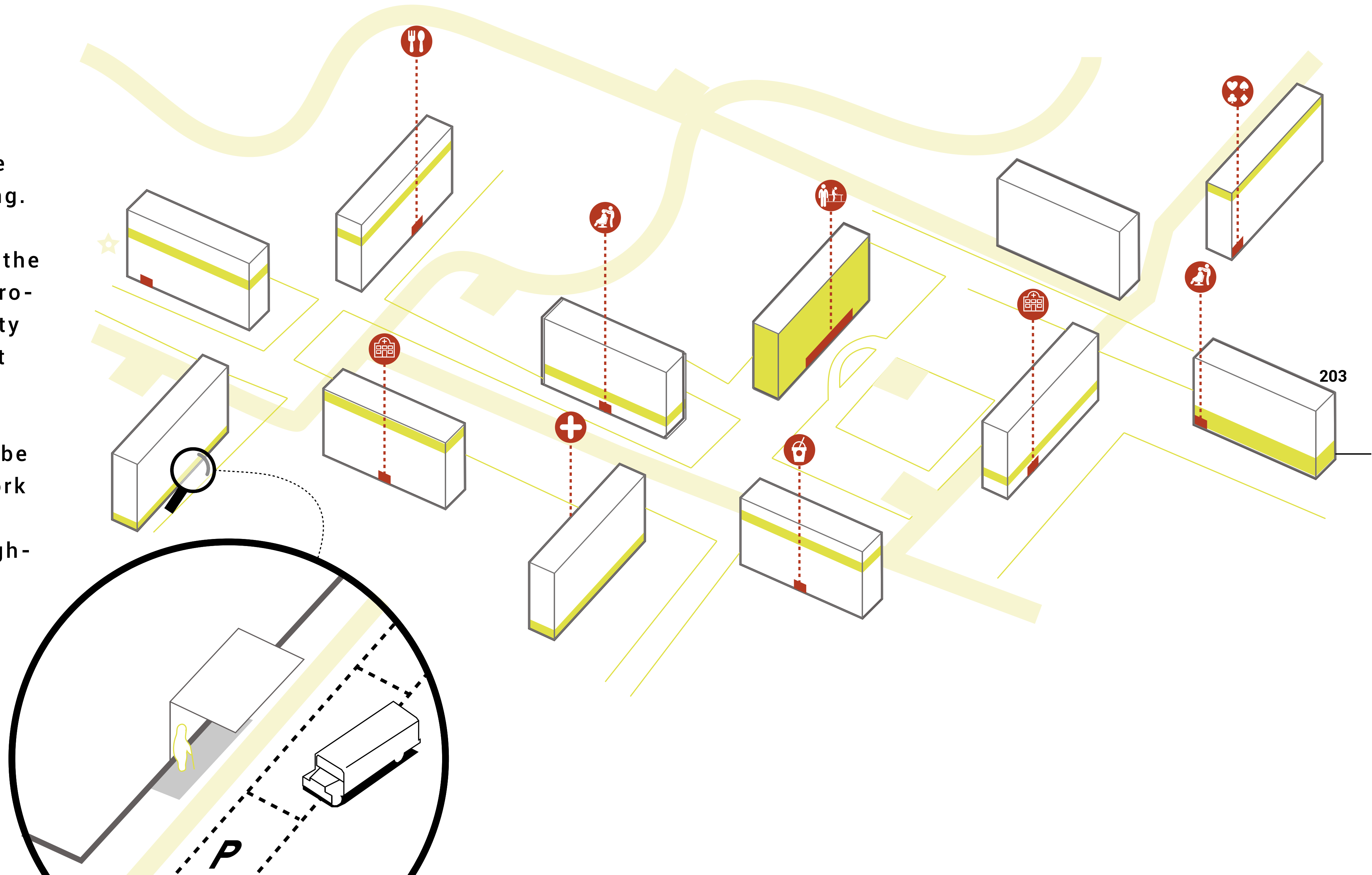
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DESIGN

CONCEPT

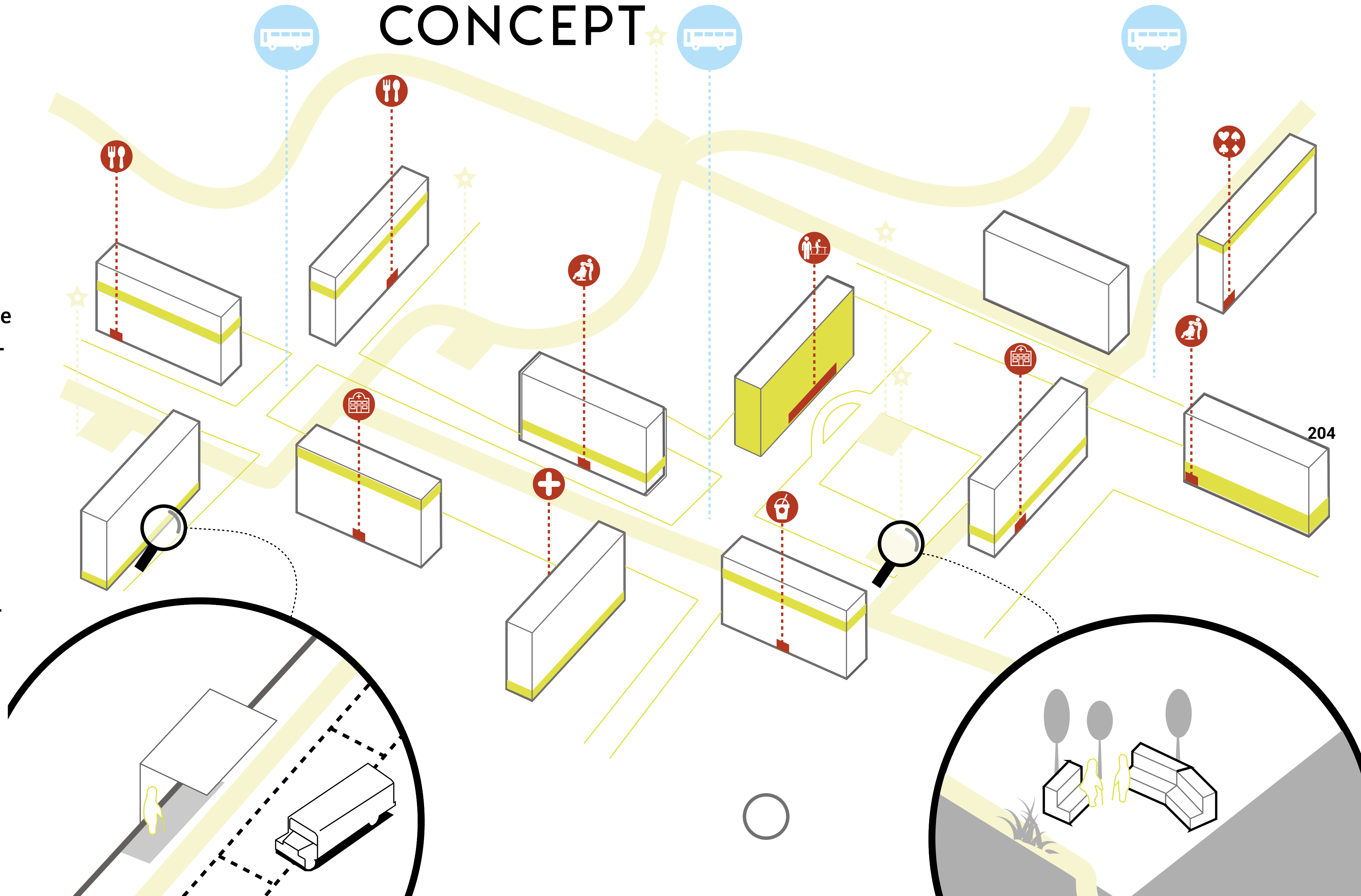
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DESIGN

CONCEPT

- Transformation of apartments can take place in every building.
- Transformation of the neighbourhood will provide for better: mobility accessibility, comfort and safety.
- New hotspots will be connected to a network of walking paths that runs through the neighbourhood.







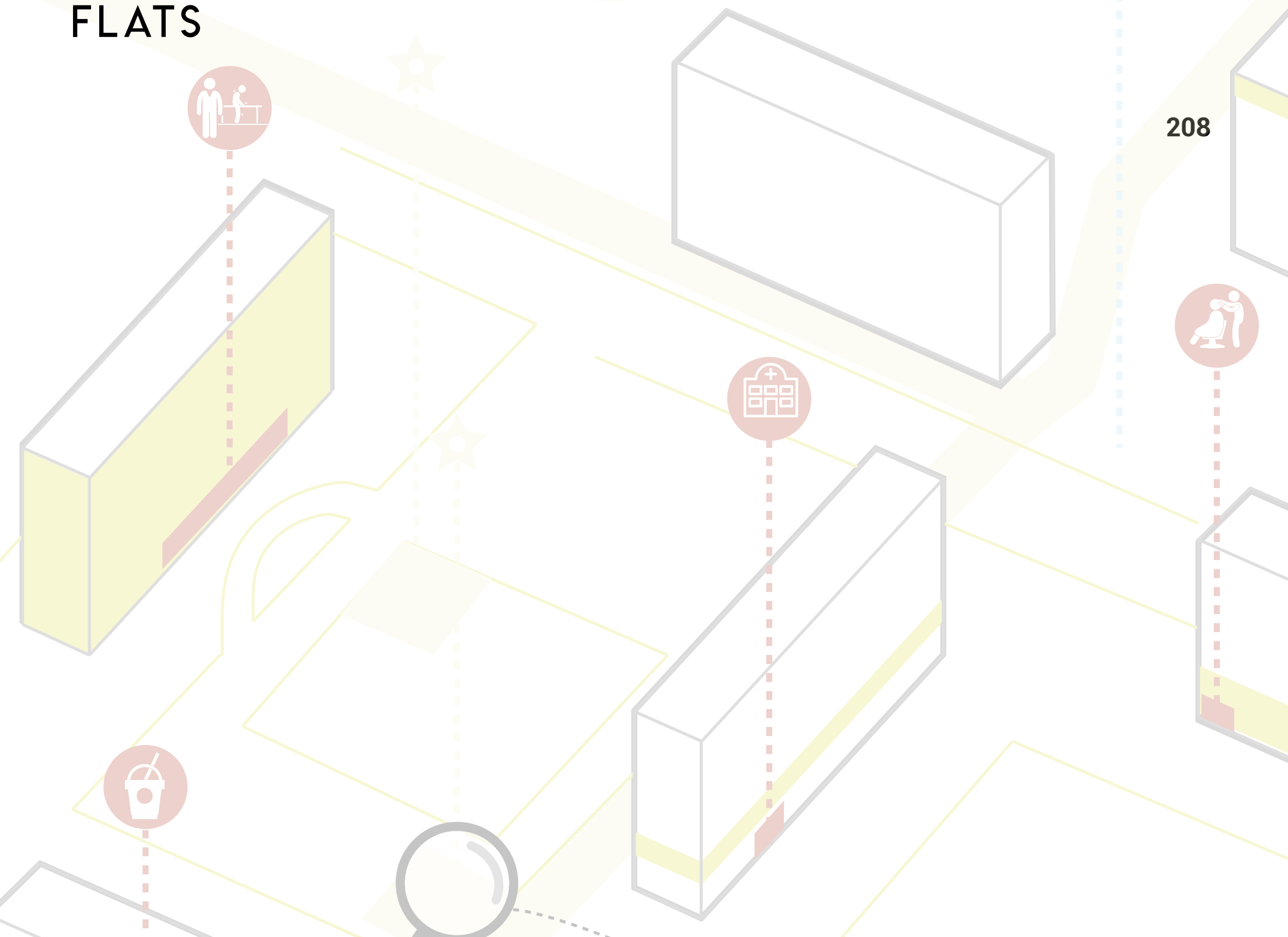
CONCLUSION



FINDING NEW INTERPRETATIONS OF
IDEOLOGY OF LOTTE STAM-BEESE FOR TO-
DAY'S SOCIETY

BUILDING ON ALREADY EXISTING
QUALITIES OF OMMOORD

OFFERS NEW POSIBILITIES FOR GALERY
FLATS



REFLECTION



HEALTHY LIVING

MAKING USE OF THE EXCISTING STOCK

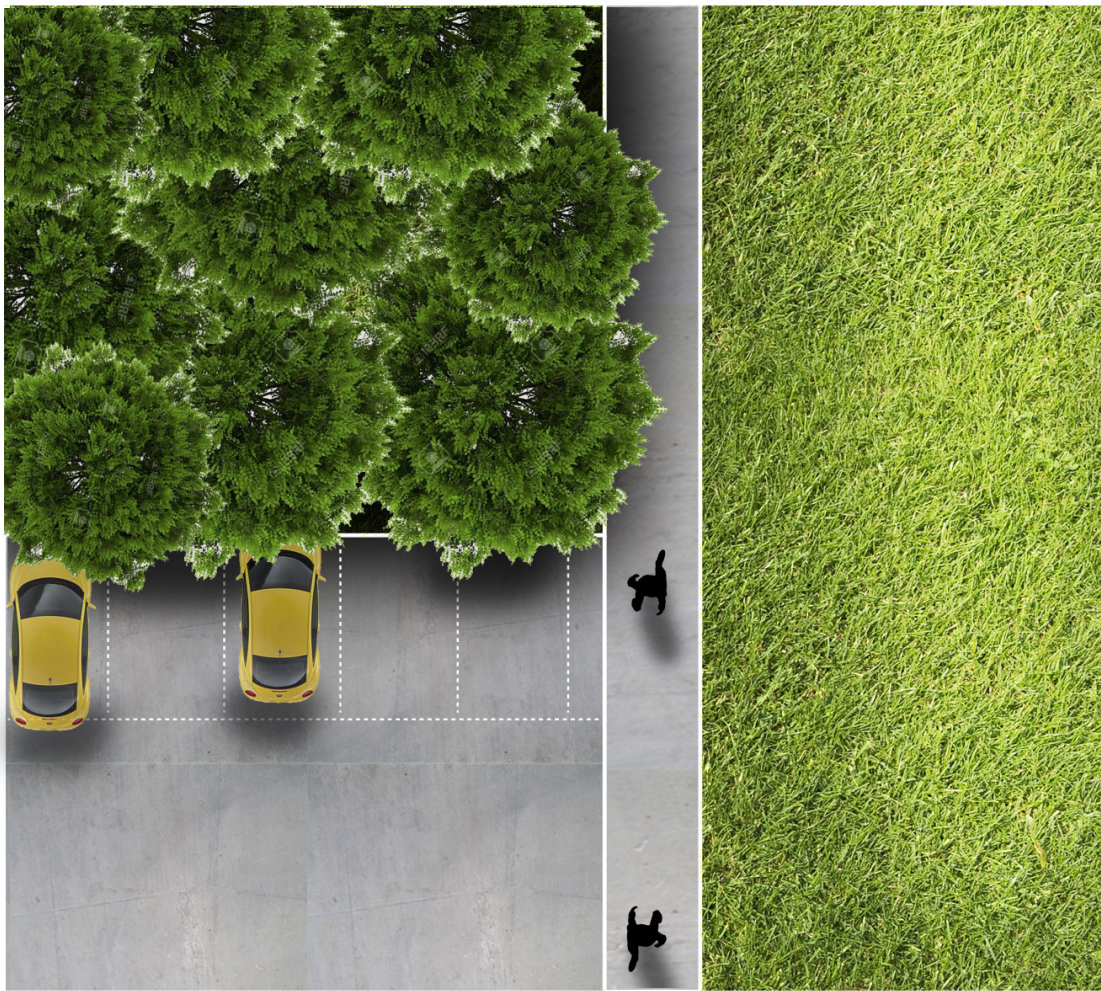
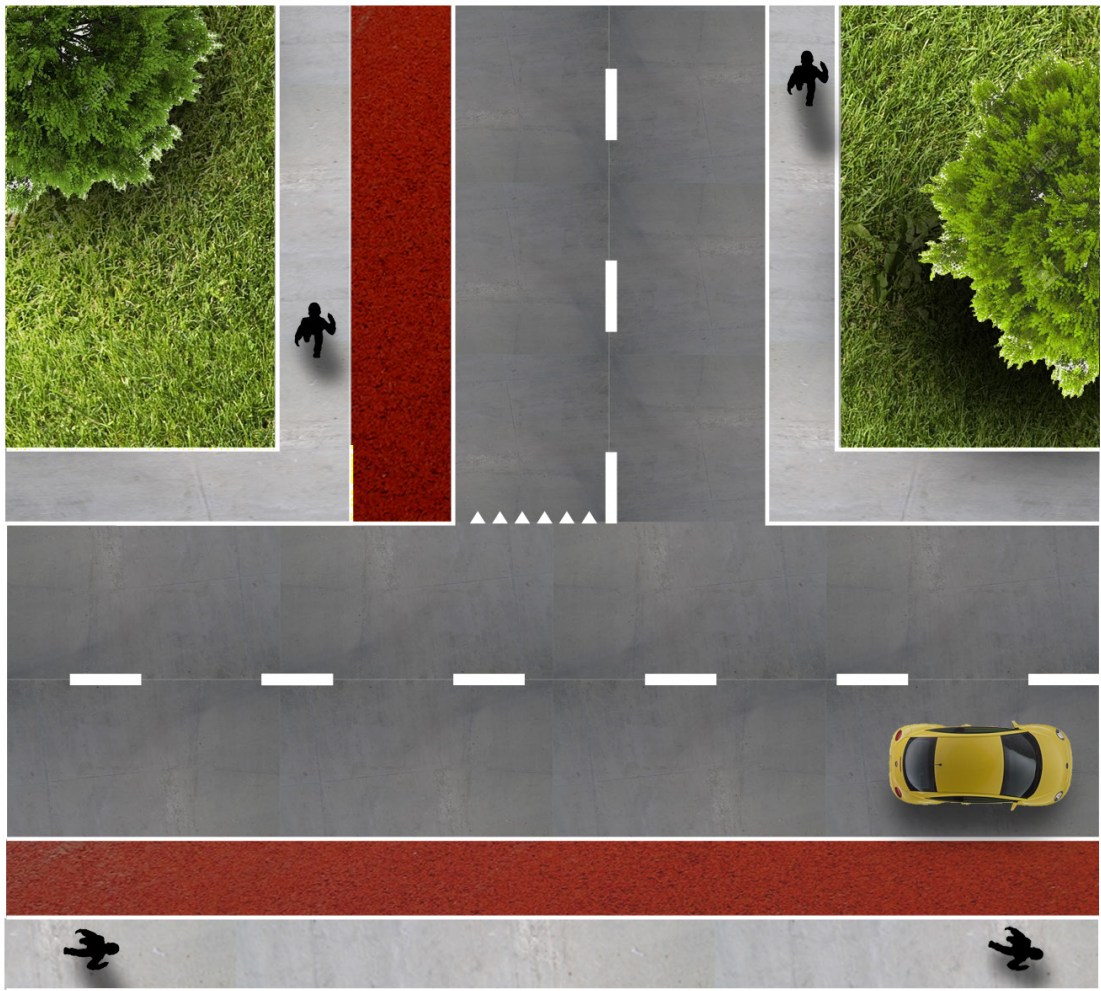
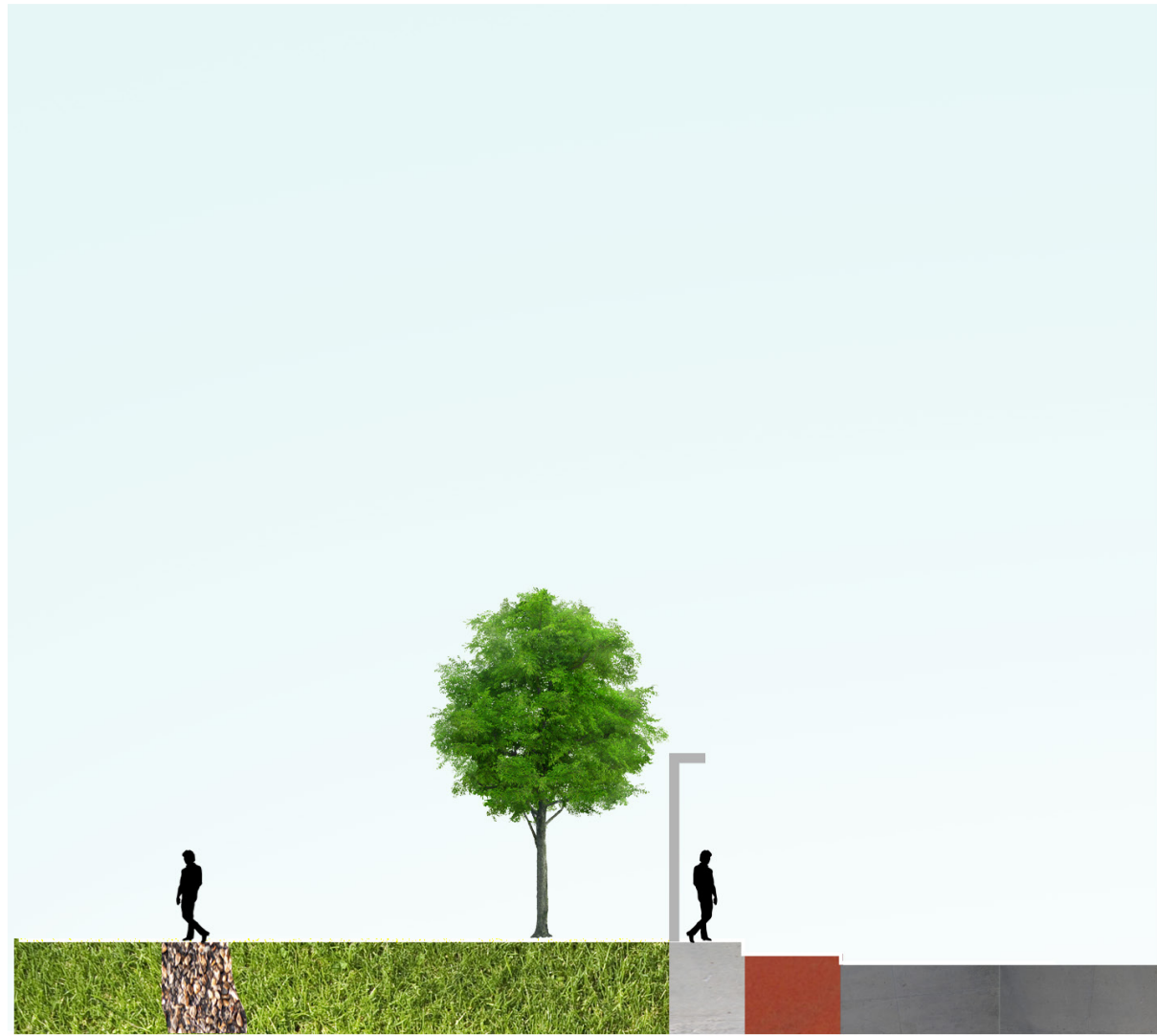
11.000 GALERY APPARTMENT BUILDINGS IN
THE NETHERLANDS

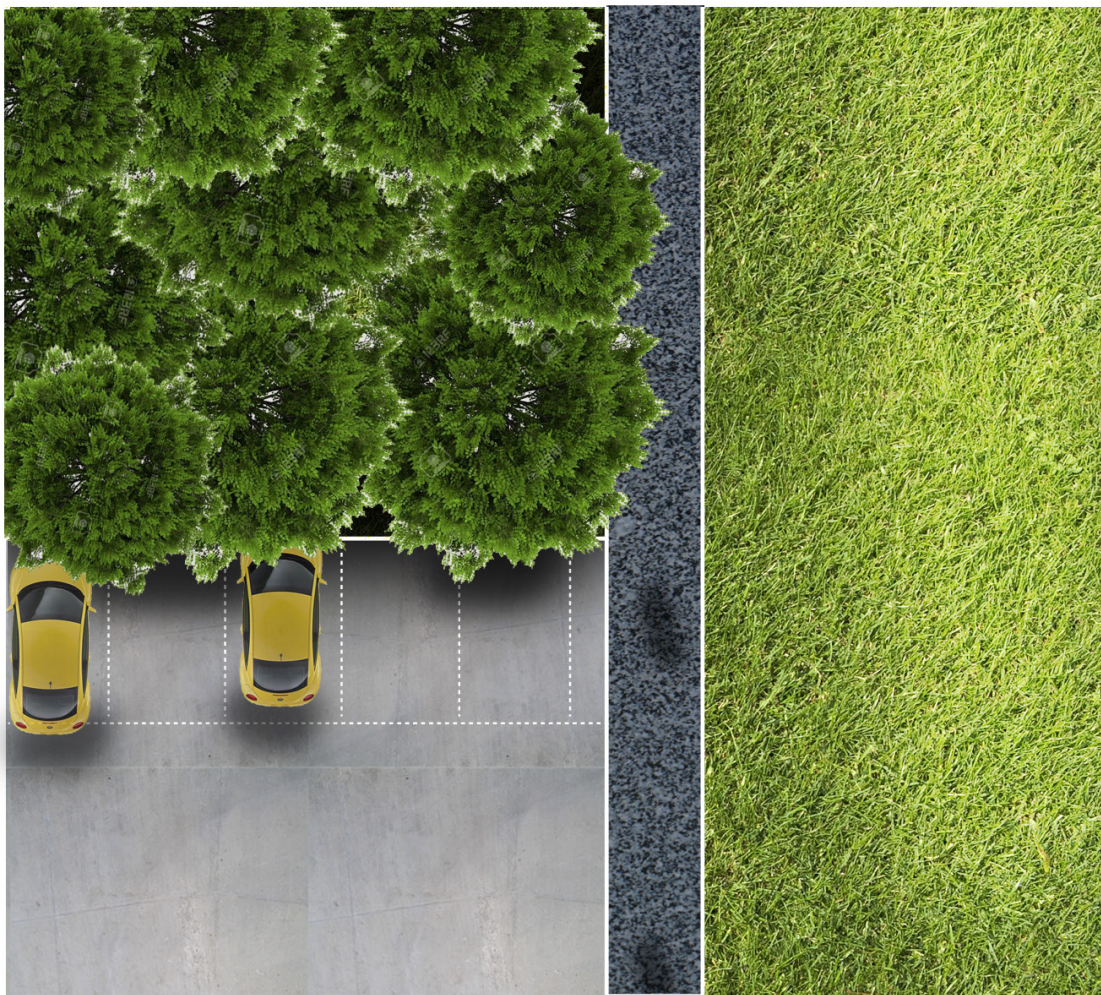
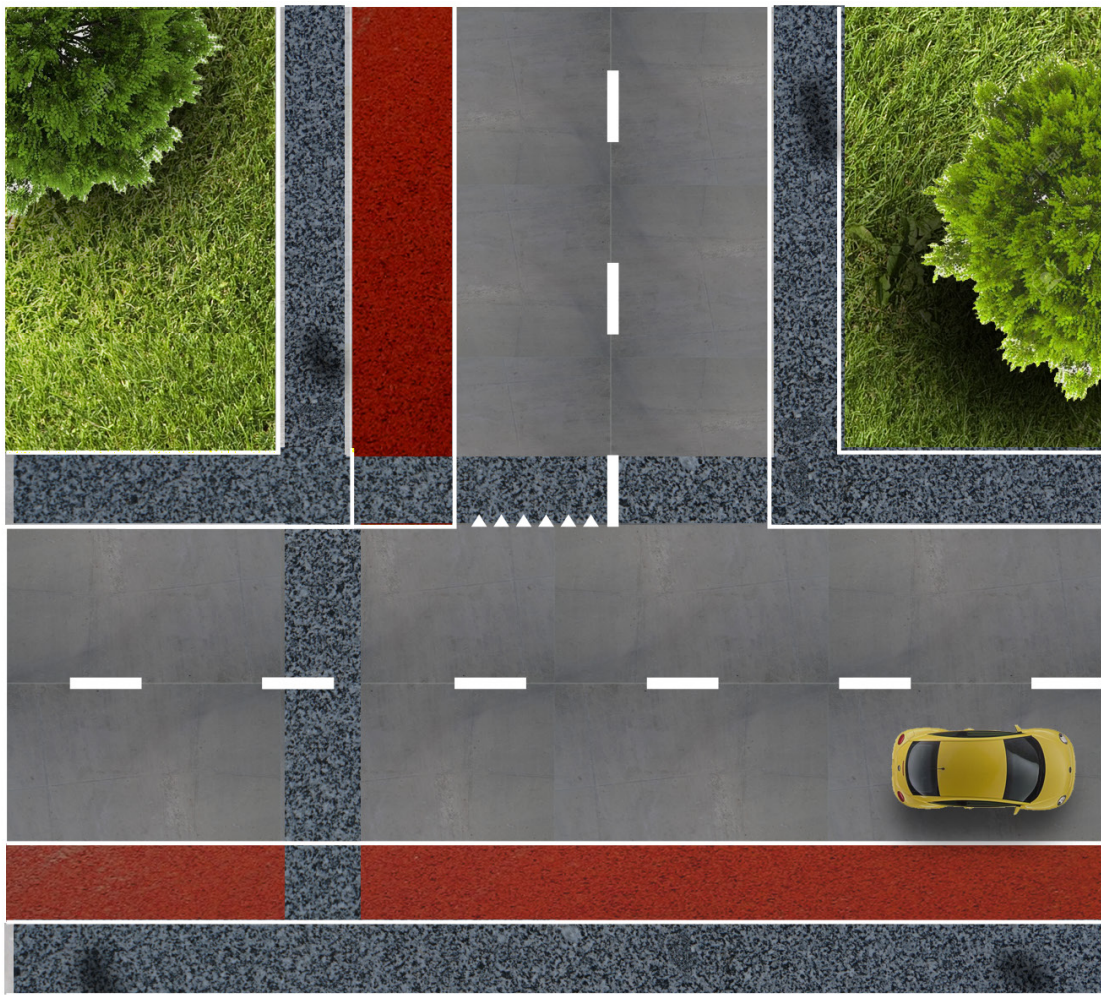
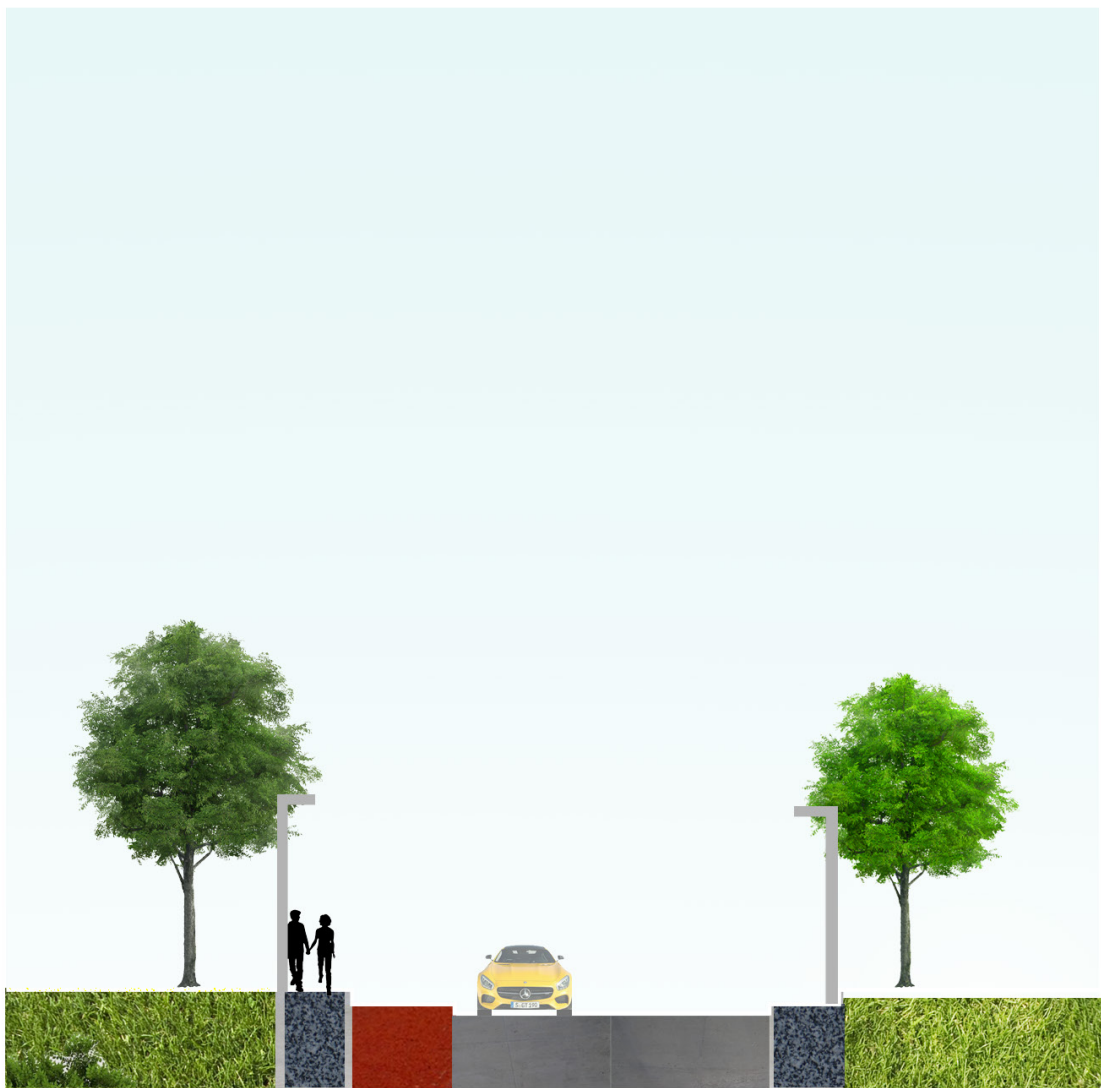
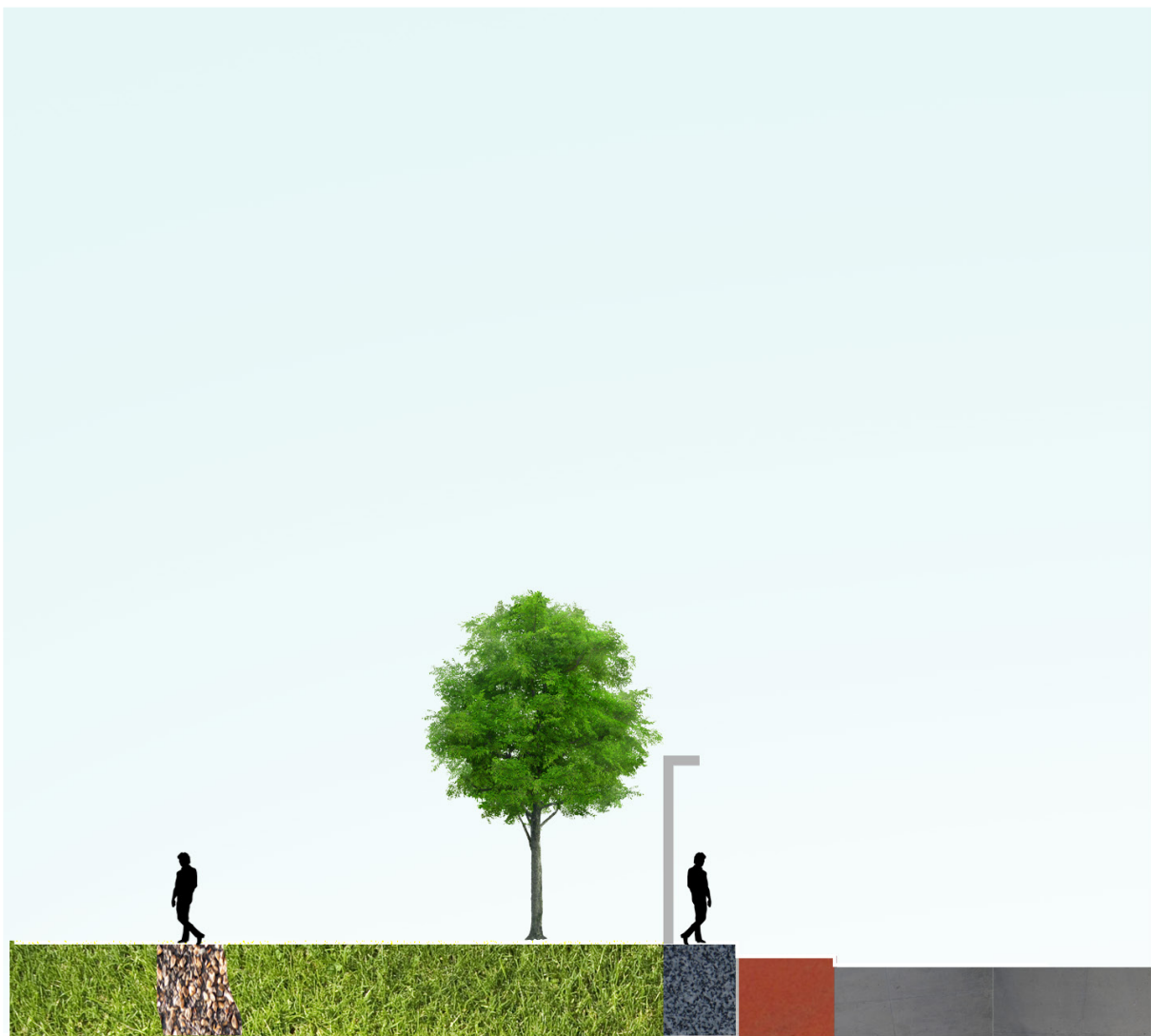
HIGH USE VALUE:

THEY PROVIDE LOTS OF FLEXIBILITY AND
CAN GIVE AN ANSWER TO THIS NEW IN-
NOVATIVE IDEAS THAT MAKE RESIDENTIAL
AREAS OF THE NETHERLANDS FUTURE AND
AGE -PROOF AGAIN.



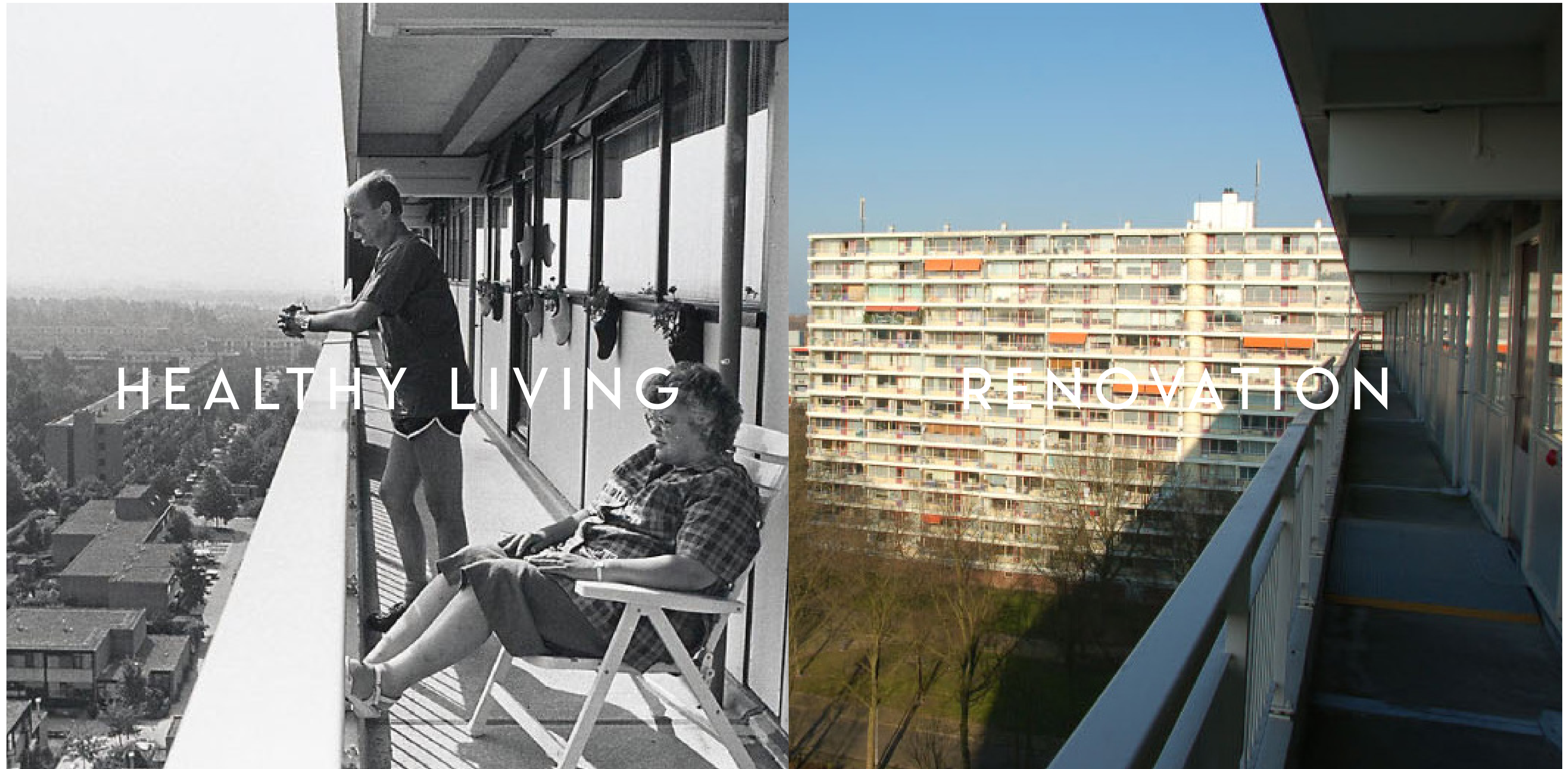
REFLECTION





STUDIO

DESIGN



HEALTHY LIVING

RENOVATION