

Capturing wishes

Translating personal housing requirements into affordable housing for young adolescents in Rotterdam Zuid

Ir. J. A. Vink
Main mentor

Dr. ir. M. van Dorst
Research mentor

Ir. J. D. Fokkinga
Building technology mentor



I de steiger!

de plek waar je wil aanmeren



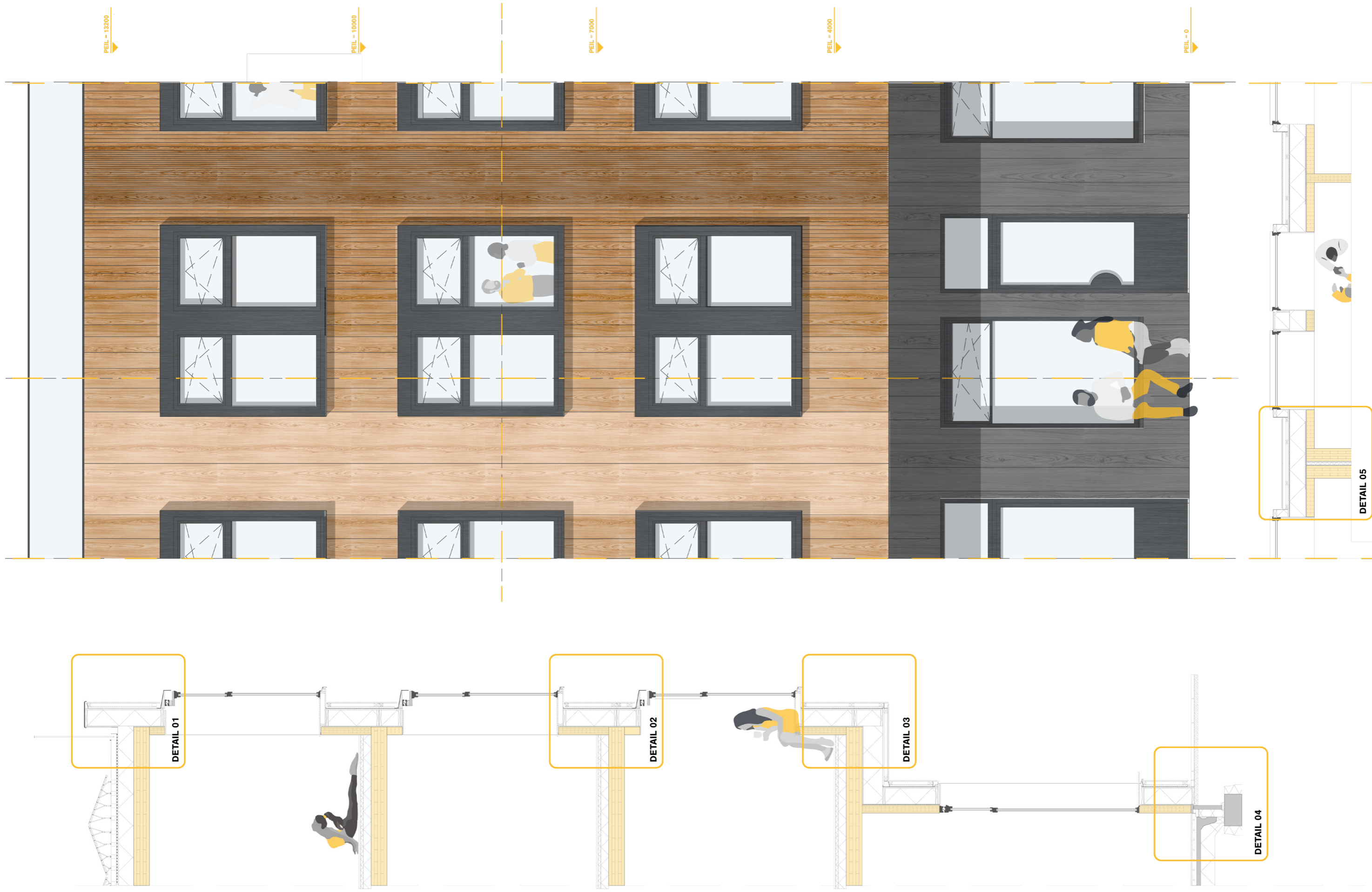












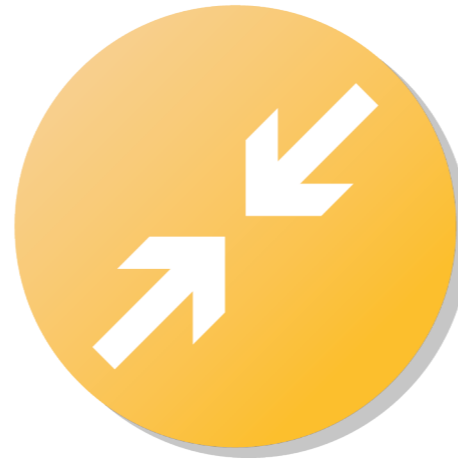
FRAGMENT OUTER FACADE

CAPTURING WISHES / BUILDING TECHNOLOGY / FRAGMENT

SCALE 1:50
ANNA BUTIER / 4538765



fitting

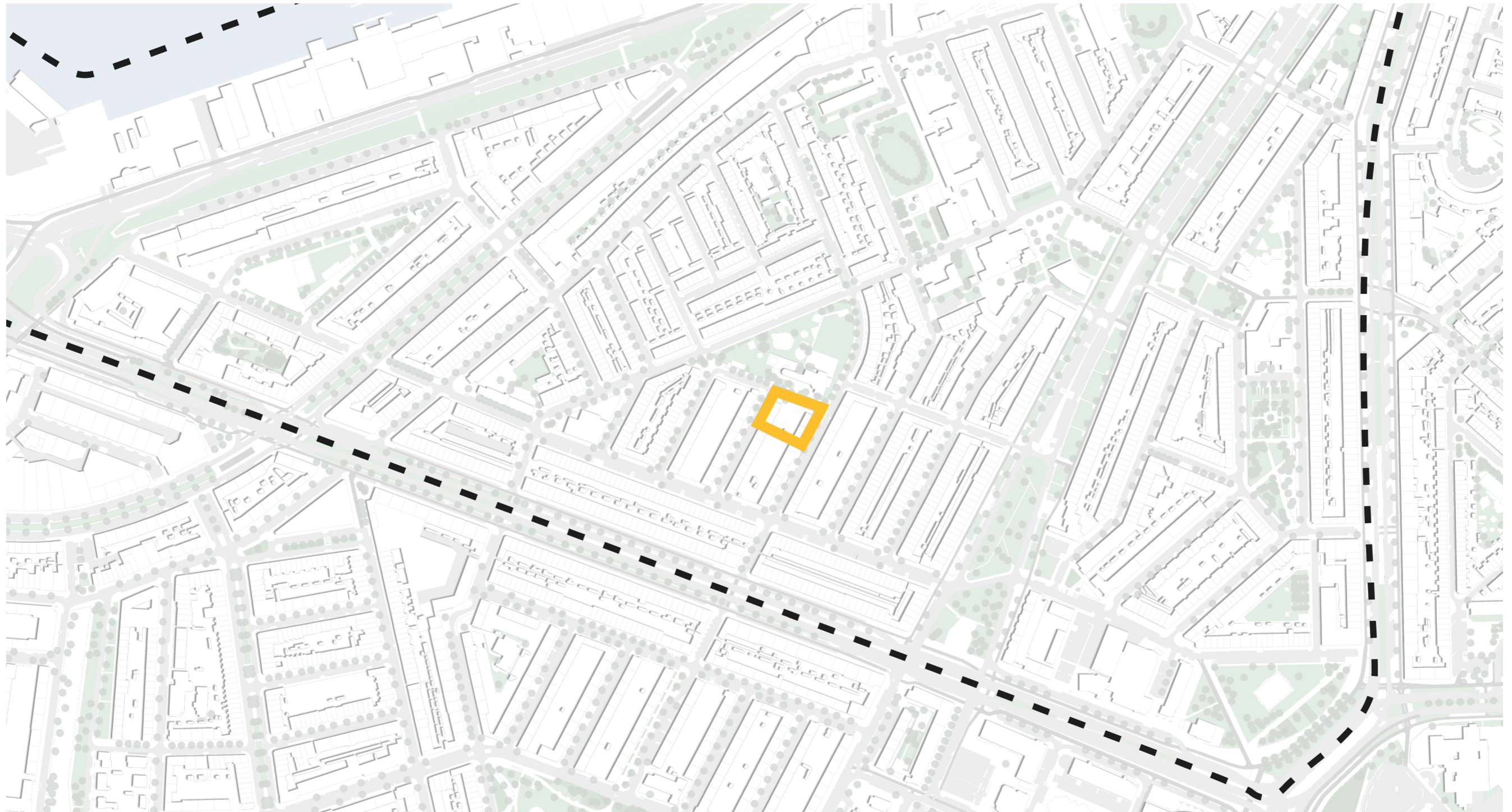


compact



affordable



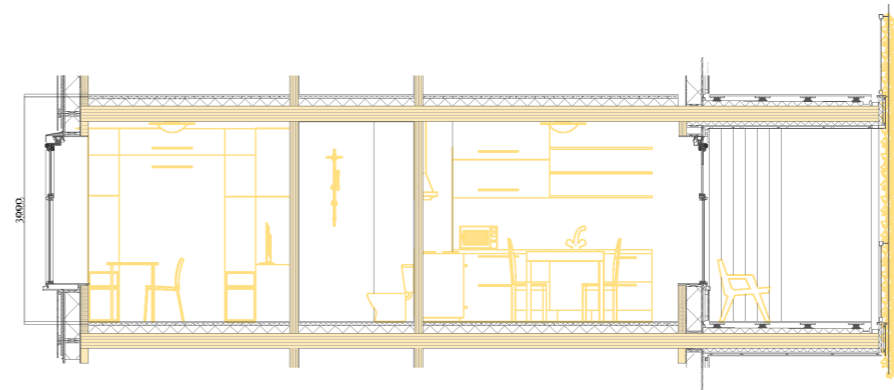
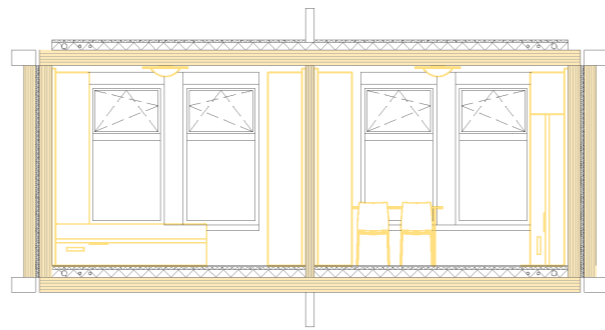
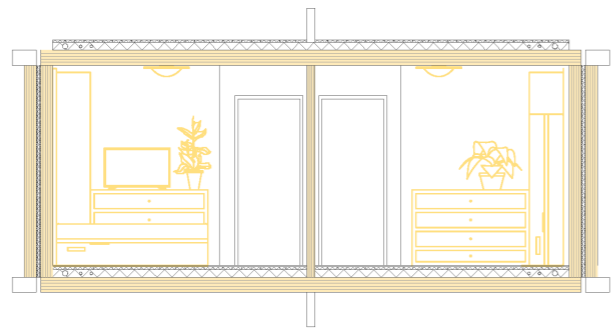
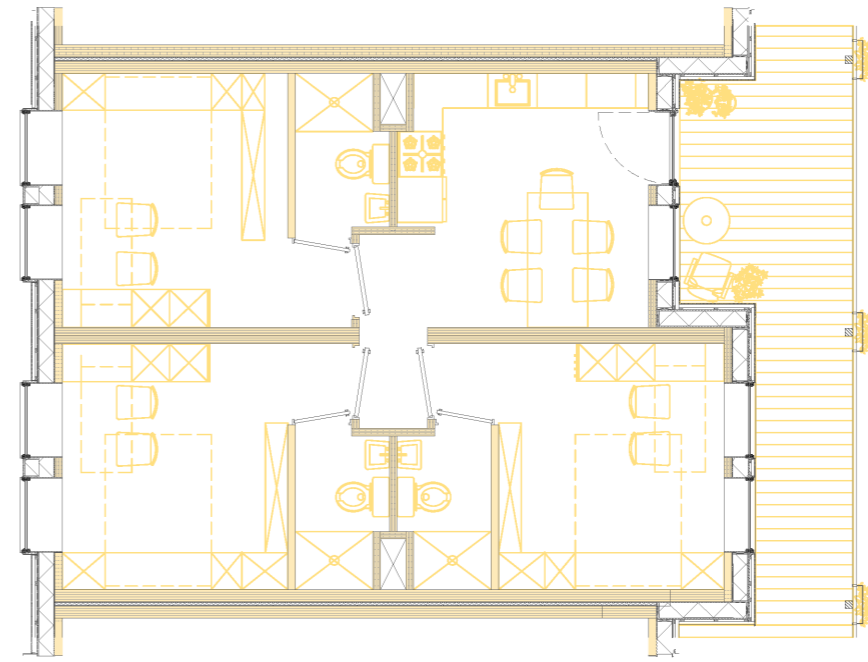
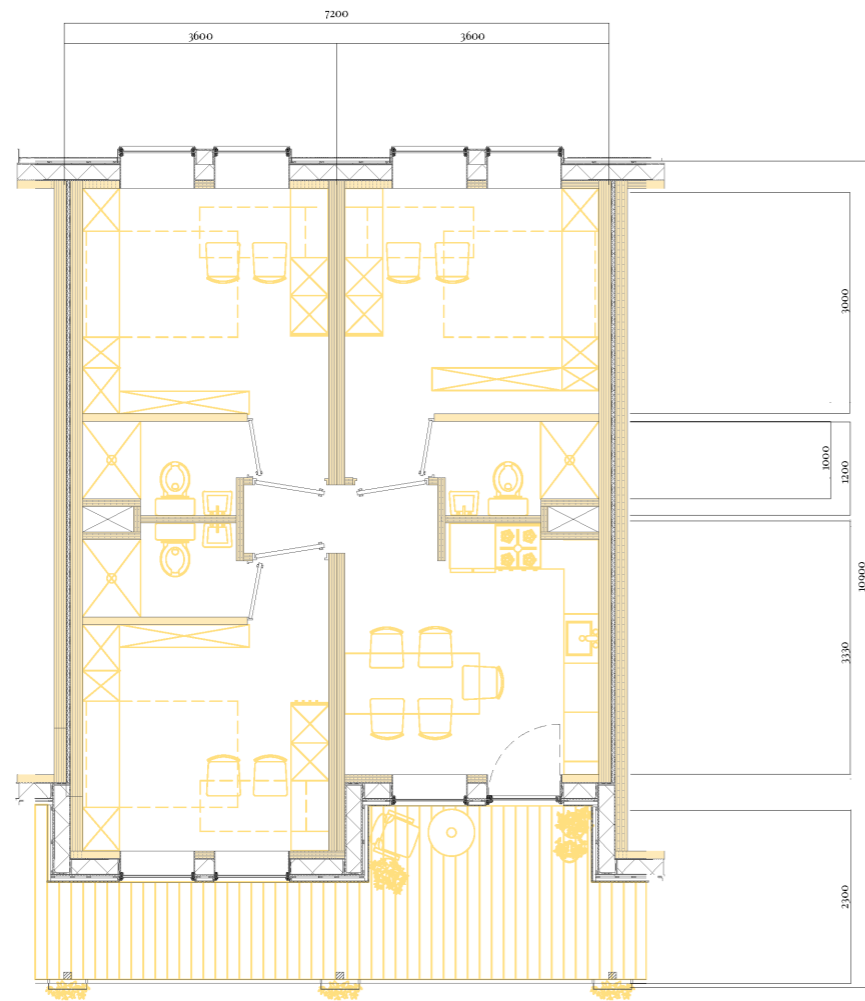


DESIGN LOCATION

CAPTURING WISHES / ARCHITECTURE / FLOORPLANS

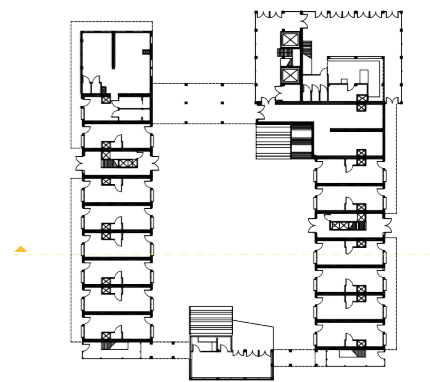
SCALE 1:2000

ANNA BUITER / 4538765





SECTION A-A'
CAPTURING WISHES / ARCHITECTURE / SECTION



SCALE 1:200
ANNA BUTIER / 4538765

**ROOF CONSTRUCTION
(TOP TO BOTTOM)**

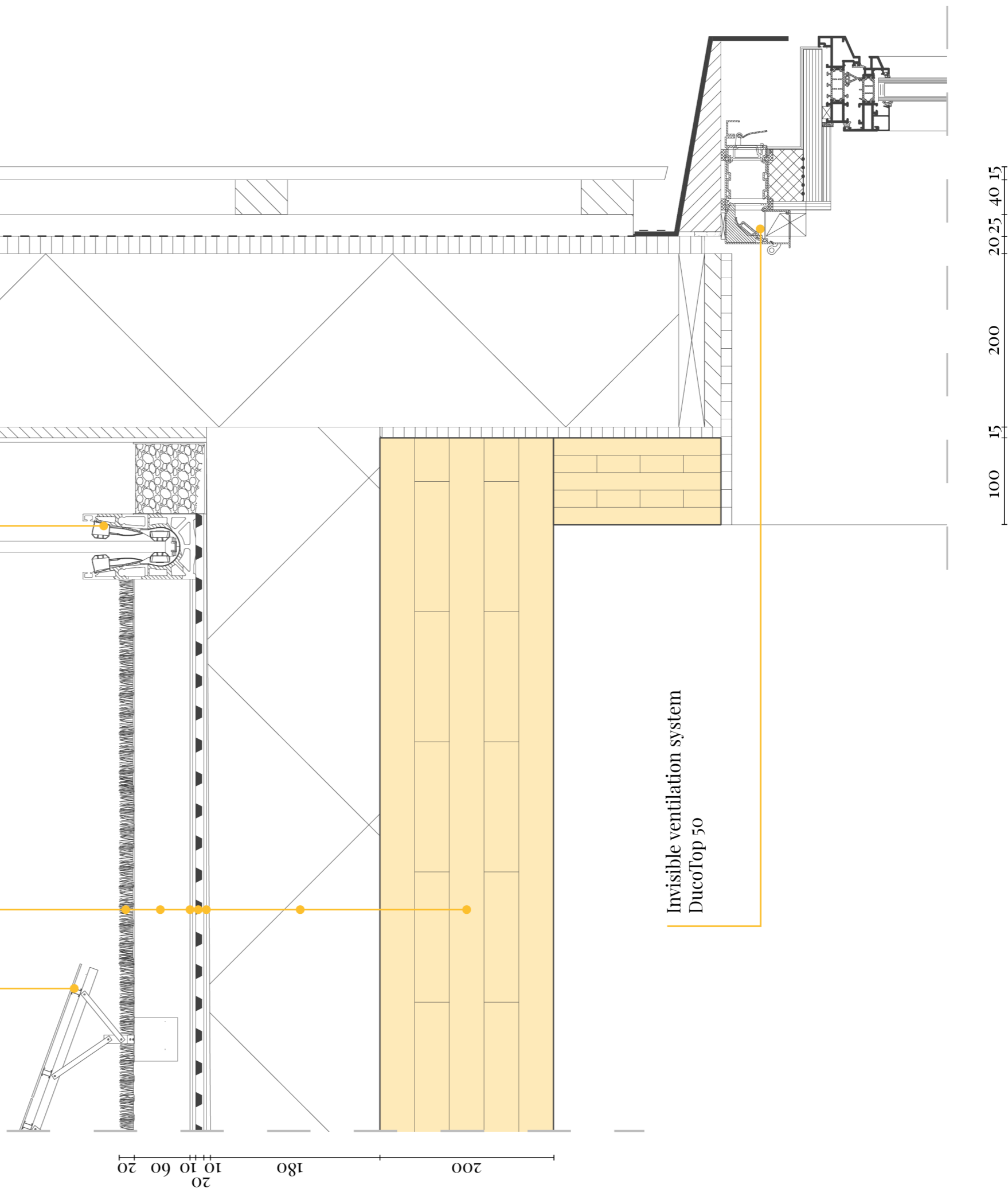
- 20 mm sedum roll mat
- 60 mm roof soil layer
- filter layer
- reservoir layer
- drainage mat
- root barrier
- waterproof membrane
- 180 mm insulation Isovlas slope 2%
- 200 mm CLT panel

PVT panel

Water-retaining
vapour-permeable layer

Industrial glass railing

Invisible ventilation system
DucoTop 50



**FLOOR CONSTRUCTION
(TOP TO BOTTOM)**

- Floorcover
- 2 x 12.5 mm Fermacell Gypsum Fibre Board with floor-heating
- 60 mm Fermacell EPS 150 kPa
- 40 mm Fermacell honeycomb system
- 200 mm CLT panel

Piping within insulation layer

Invisible ventilation system
DucoTop 50

**WALL CONSTRUCTION
(LEFT TO RIGHT)**

- 100 mm CLT panel
- 225 mm HSB panel with Isovolas insulation
- Water-retaining vapour-permeable layer
- Cross battens
- 15 mm Wooden cladding (Siberian Larch)

Aluminium 'bloemkozijn' finish

SlimLine Tilt and Turn window
with fixed bottom element

15
25
100
200

100 12.5 200 25 40 15 190

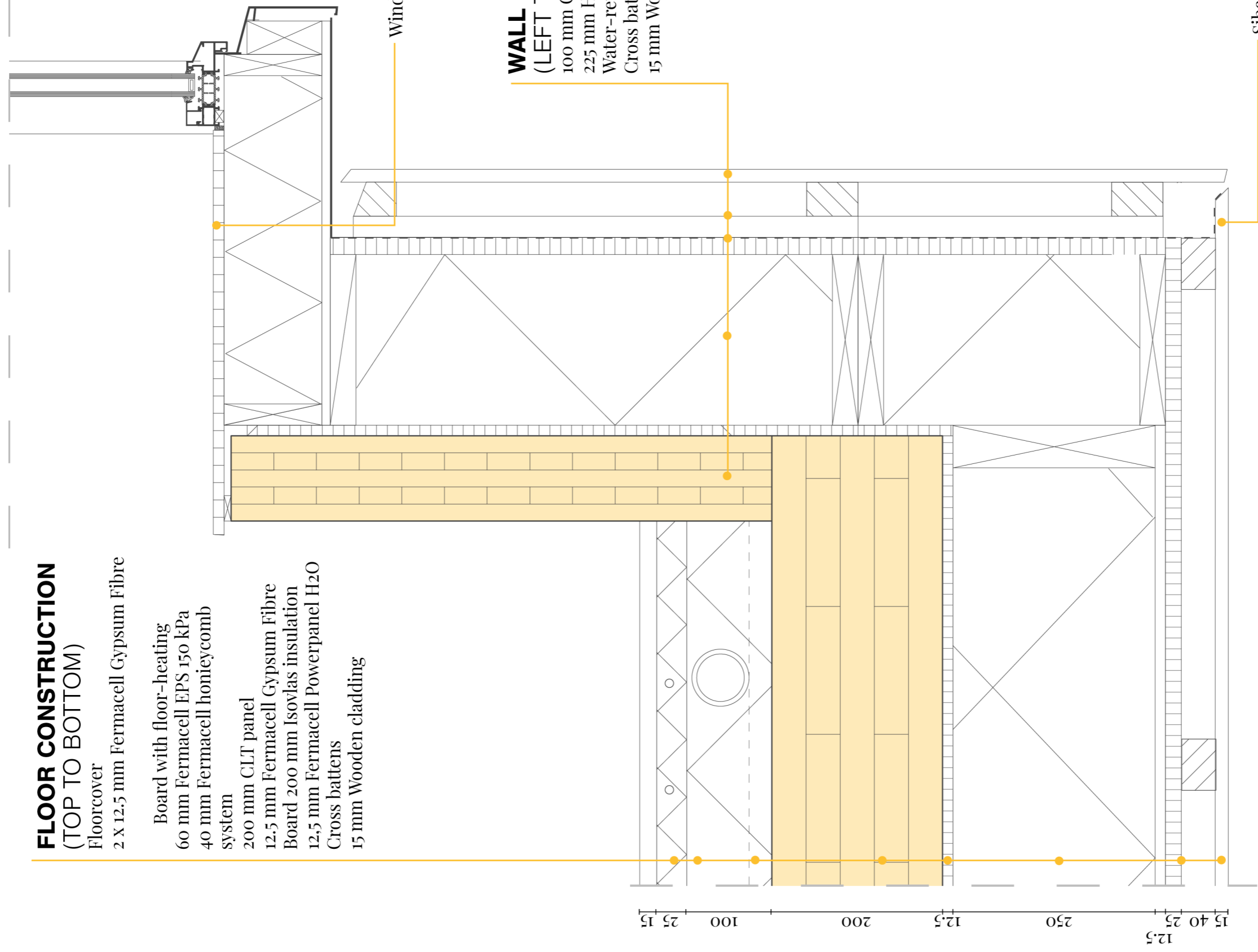
DETAIL 02 / 3RD FLOOR

CAPTURING WISHES / BUILDING TECHNOLOGY / DETAILS

SCALE 1:5
ANNA BUIJTER / 4538765

**FLOOR CONSTRUCTION
(TOP TO BOTTOM)**

- Floorcover
- 2 x 12.5 mm Fermacell Gypsum Fibre Board with floor-heating
- 60 mm Fermacell EPS 150 kPa
- 40 mm Fermacell honeycomb system
- 200 mm CLT panel
- 12.5 mm Fermacell Gypsum Fibre Board
- 200 mm Isovlas insulation
- 12.5 mm Fermacell Powerpanel H2O
- Cross battens
- 15 mm Wooden cladding

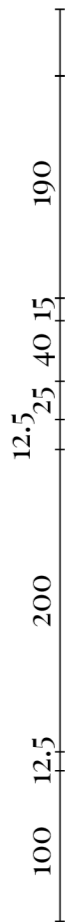


Windowsill as sitting element

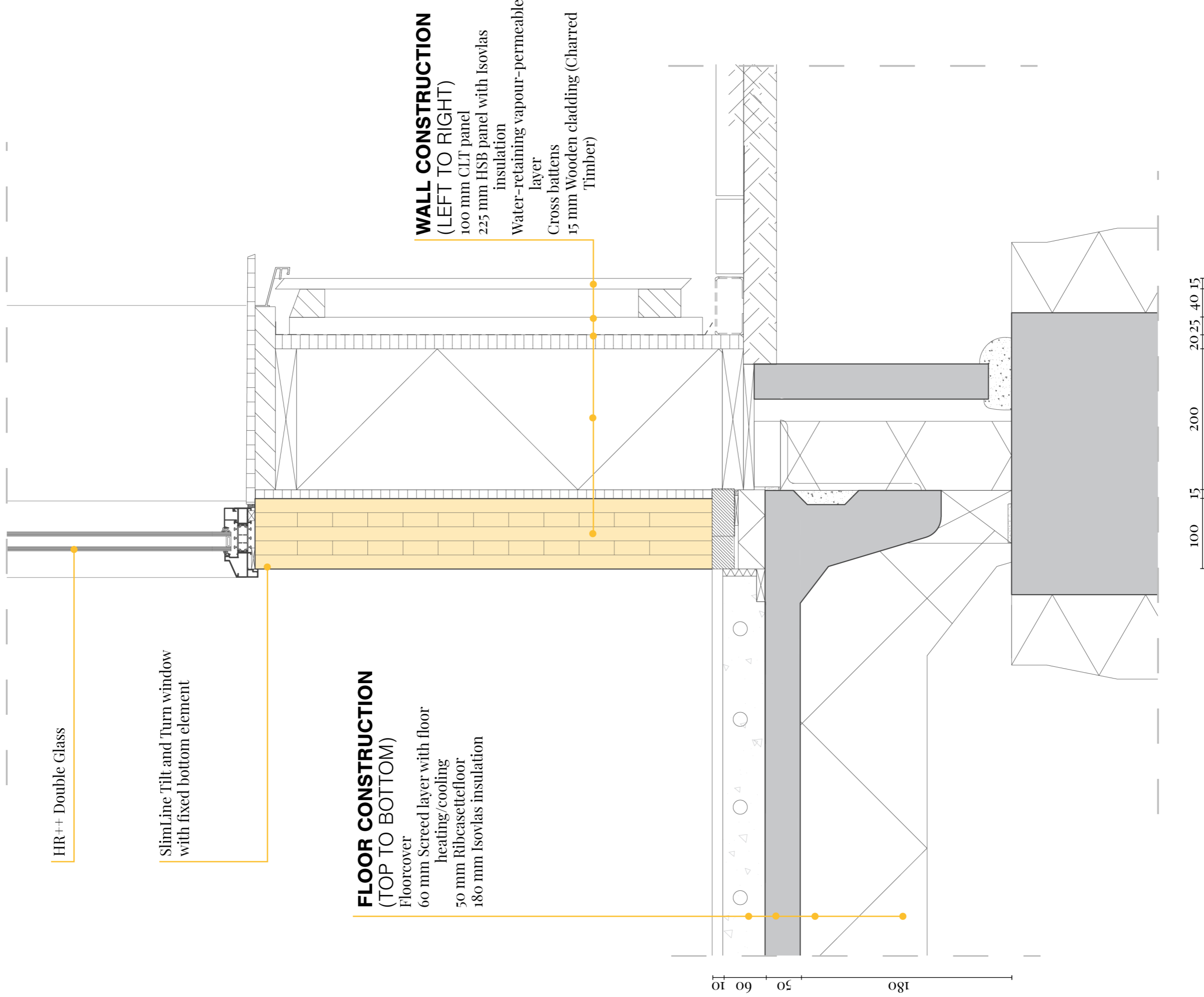
**WALL CONSTRUCTION
(LEFT TO RIGHT)**

- 100 mm CLT panel
- 225 mm HSB panel with Isovlas insulation
- Water-retaining vapour-permeable layer
- Cross battens
- 15 mm Wooden cladding (Siberian Larch)

Siberian Larch cladding



DETAIL 03 / OVERHANG



HR++ Double Glass

SlimLine Tilt and Turn window with fixed bottom element

FLOOR CONSTRUCTION (TOP TO BOTTOM)

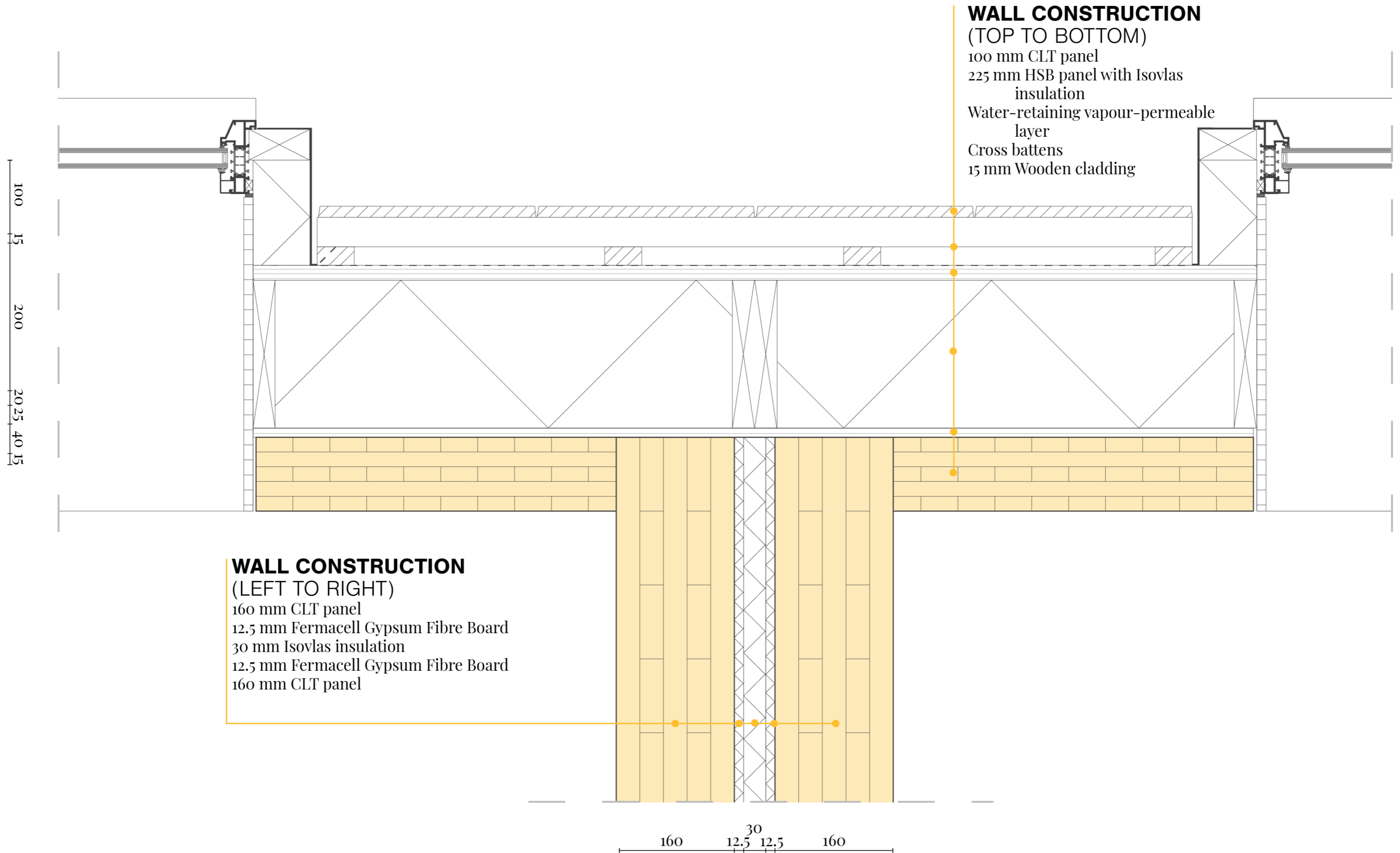
- Floorcover
- 60 mm Screed layer with floor heating/cooling
- 50 mm Ribcasette floor
- 180 mm Isovlas insulation

WALL CONSTRUCTION (LEFT TO RIGHT)

- 100 mm CLT panel
- 225 mm HSB panel with Isovlas insulation
- Water-retaining vapour-permeable layer
- Cross battens
- 15 mm Wooden cladding (Charred Timber)

10 60 50 180

100 15 200 20 25 40 15



DETAIL 05 / DWELLING SEPERATING WALL (HOR)

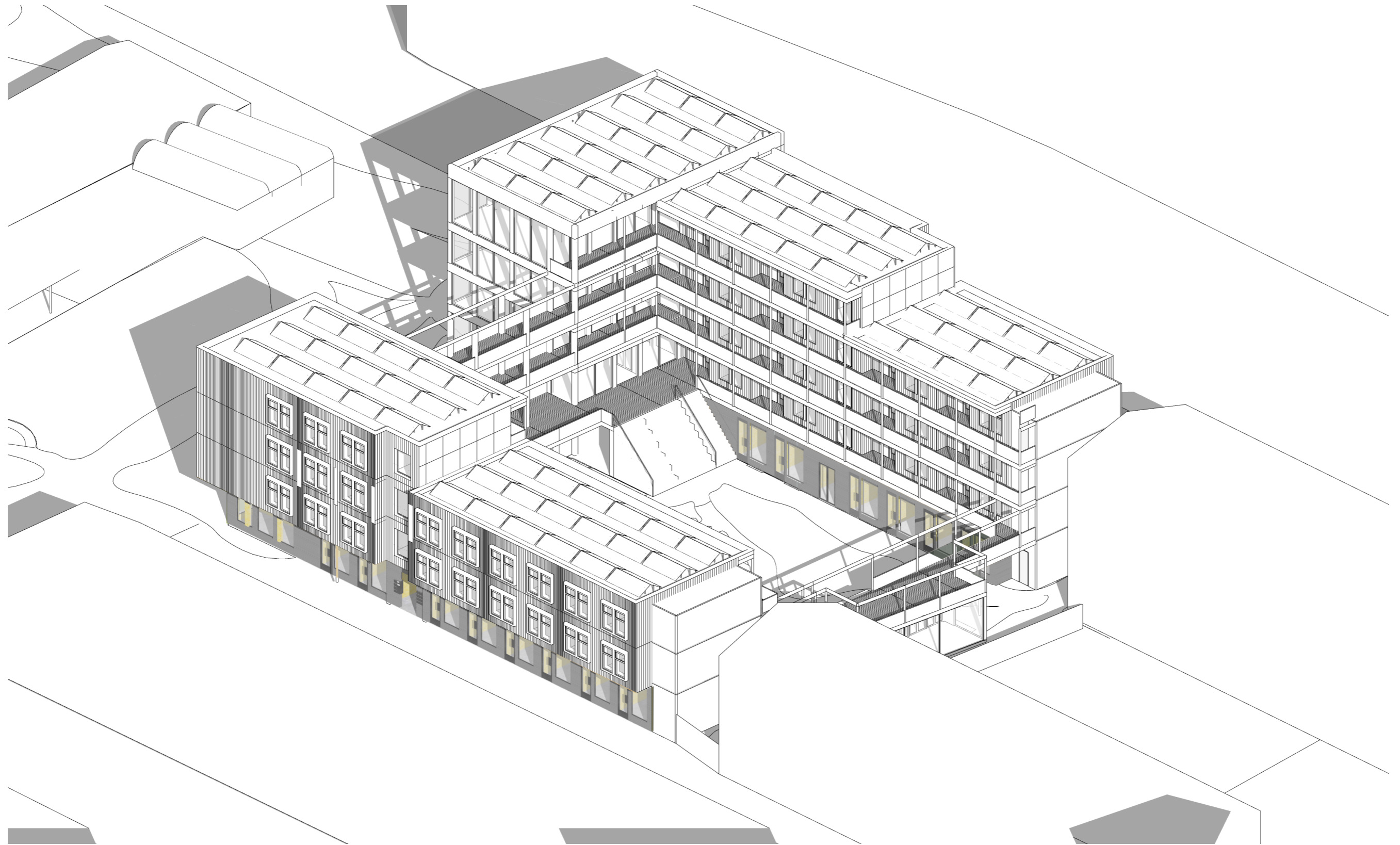


SITE PLAN

CAPTURING WISHES / ARCHITECTURE / FLOORPLANS

SCALE 1:500

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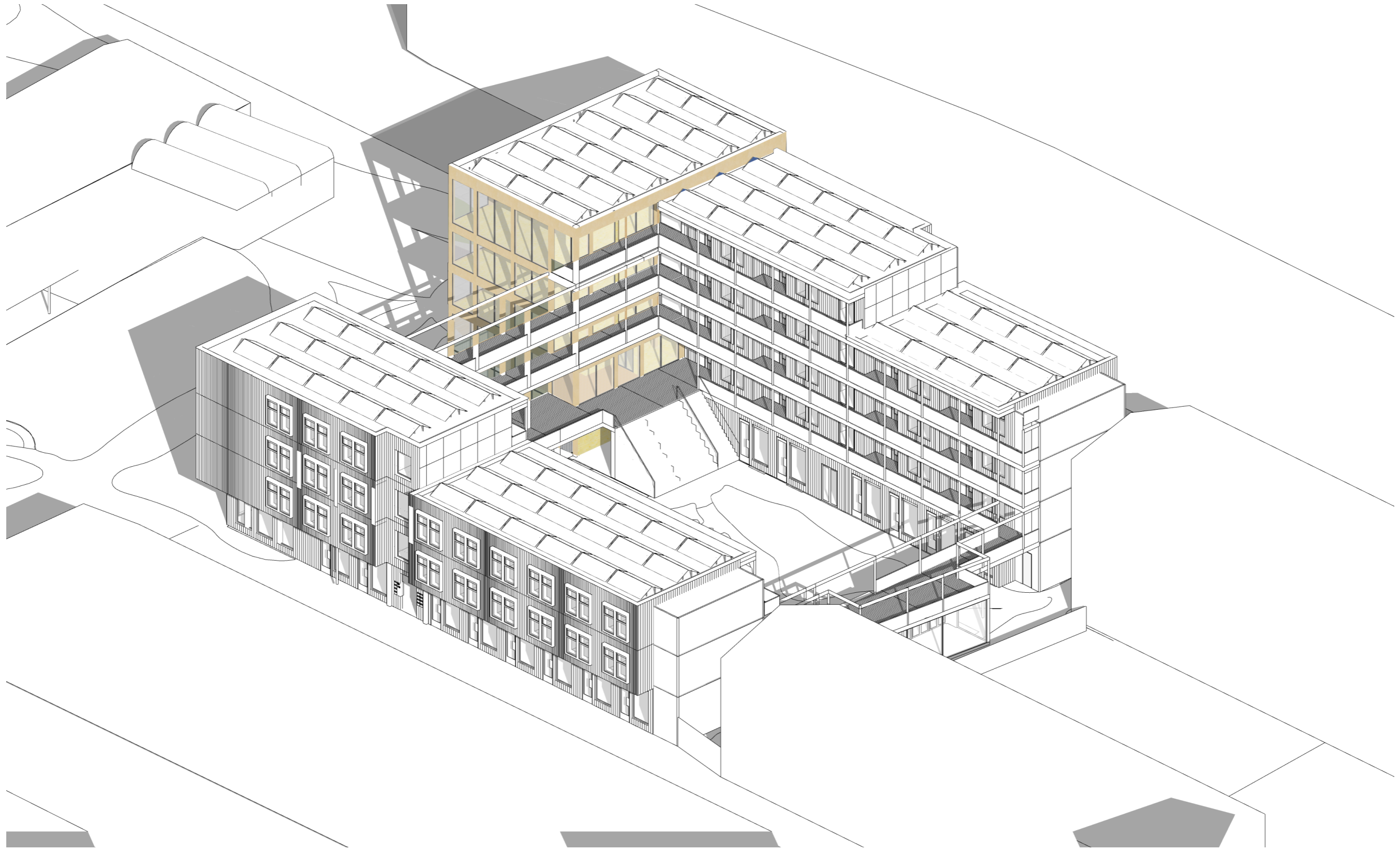


STORES/OFFICES

CAPTURING WISHES / CONCEPT / AXONOMETRIC VIEW

AXONOMETRIC

ANNA BUI TER / 4538765

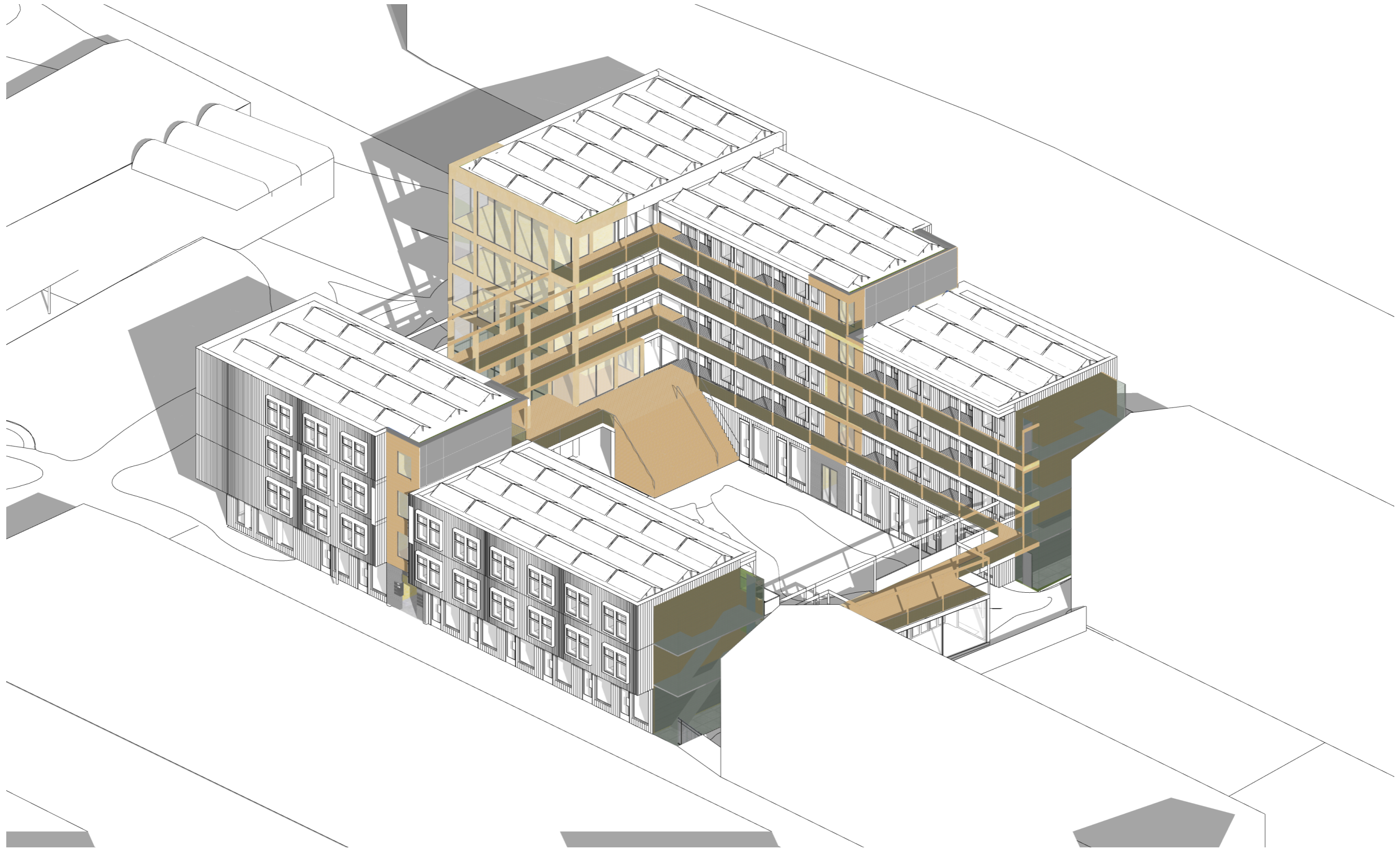


COMMUNITY HUB

CAPTURING WISHES / CONCEPT / AXONOMETRIC VIEW

AXONOMETRIC

ANNA BUIER / 4538765

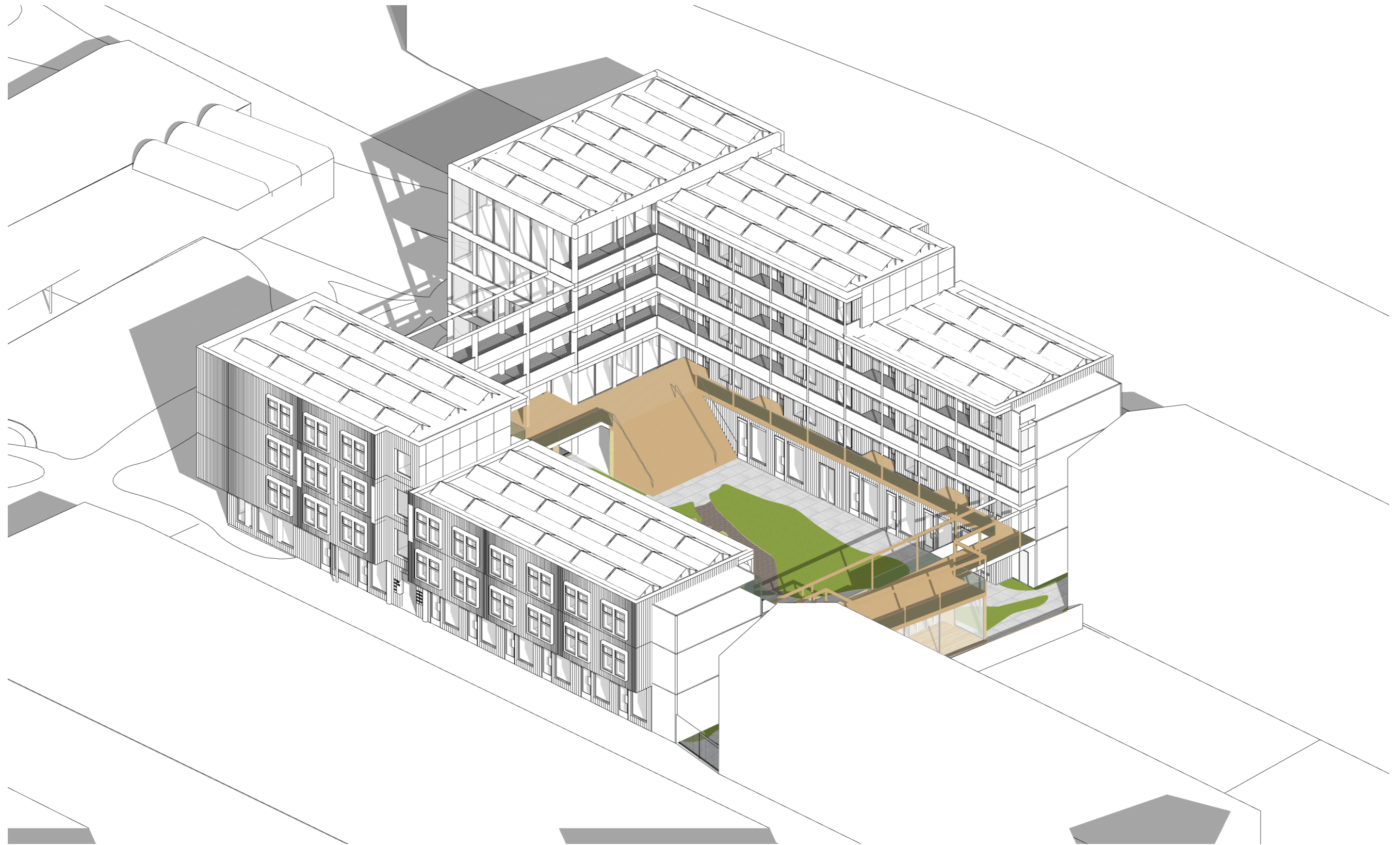


ROUTING

CAPTURING WISHES / CONCEPT / AXONOMETRIC VIEW

AXONOMETRIC

ANNA BUI TER / 4538765

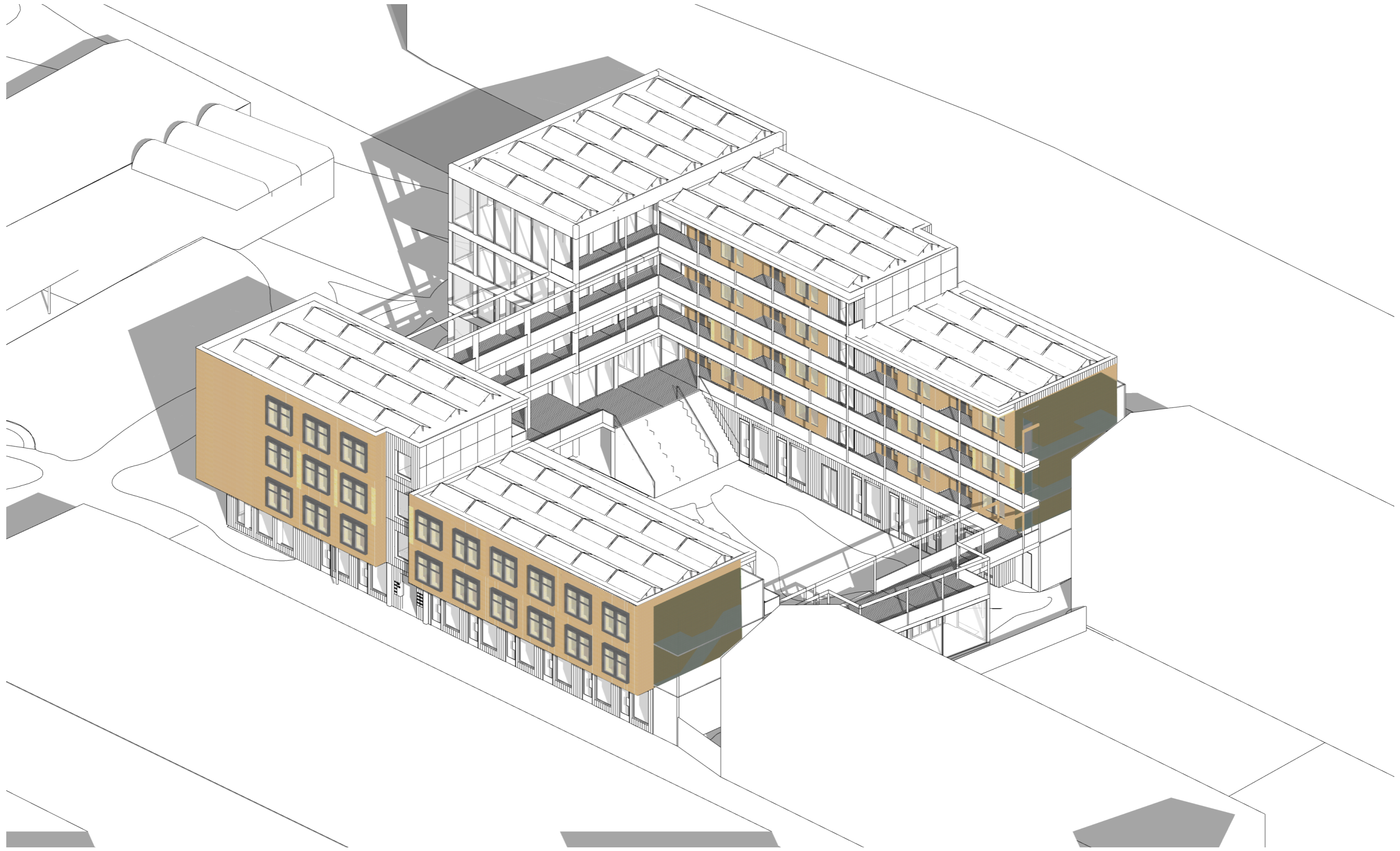


PUBLIC COURTYARD

CAPTURING WISHES / CONCEPT / AXONOMETRIC VIEW

AXONOMETRIC

ANNA BUIJTER / 4538765

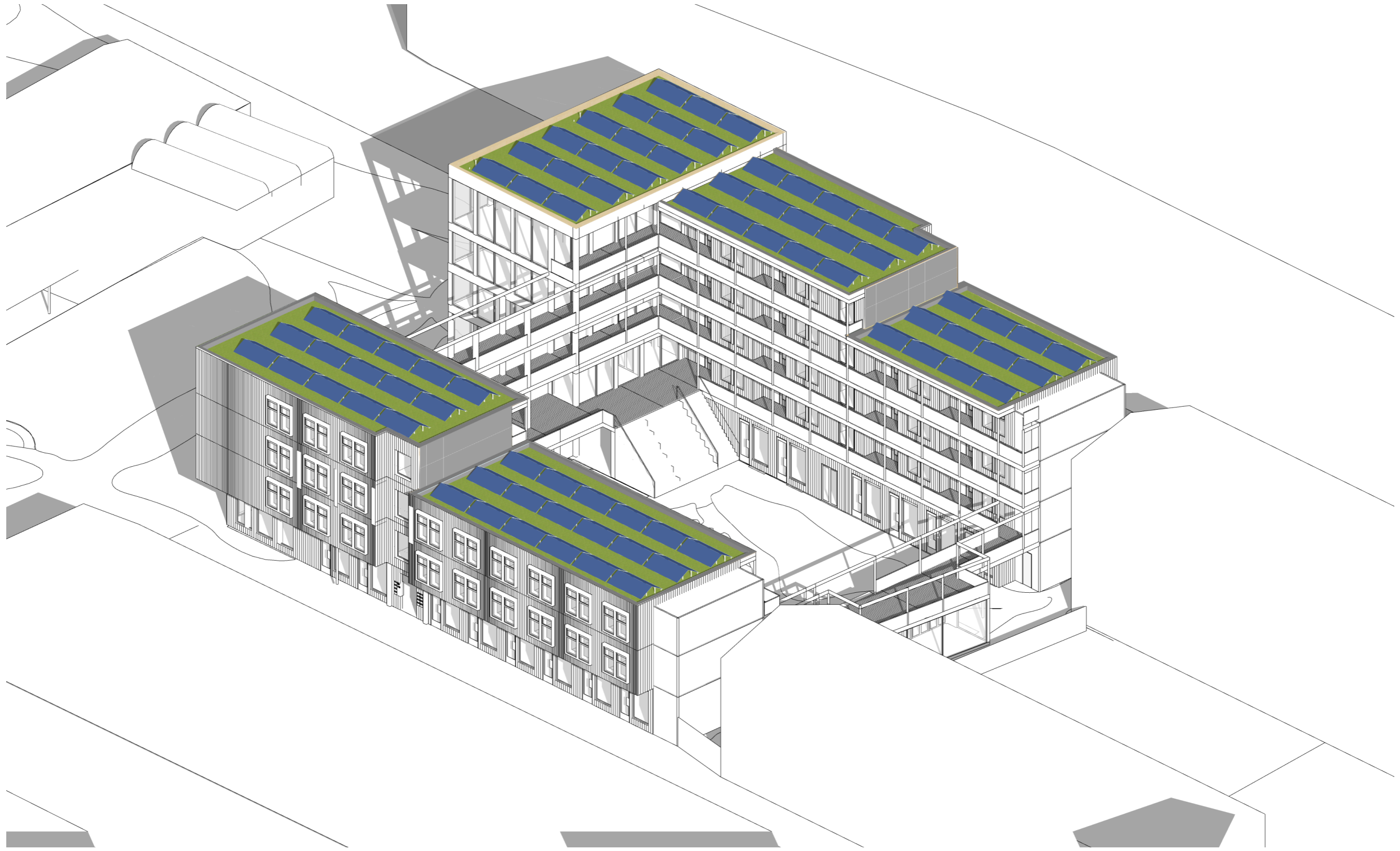


HOUSING

CAPTURING WISHES / CONCEPT / AXONOMETRIC VIEW

AXONOMETRIC

ANNA BUI TER / 4538765

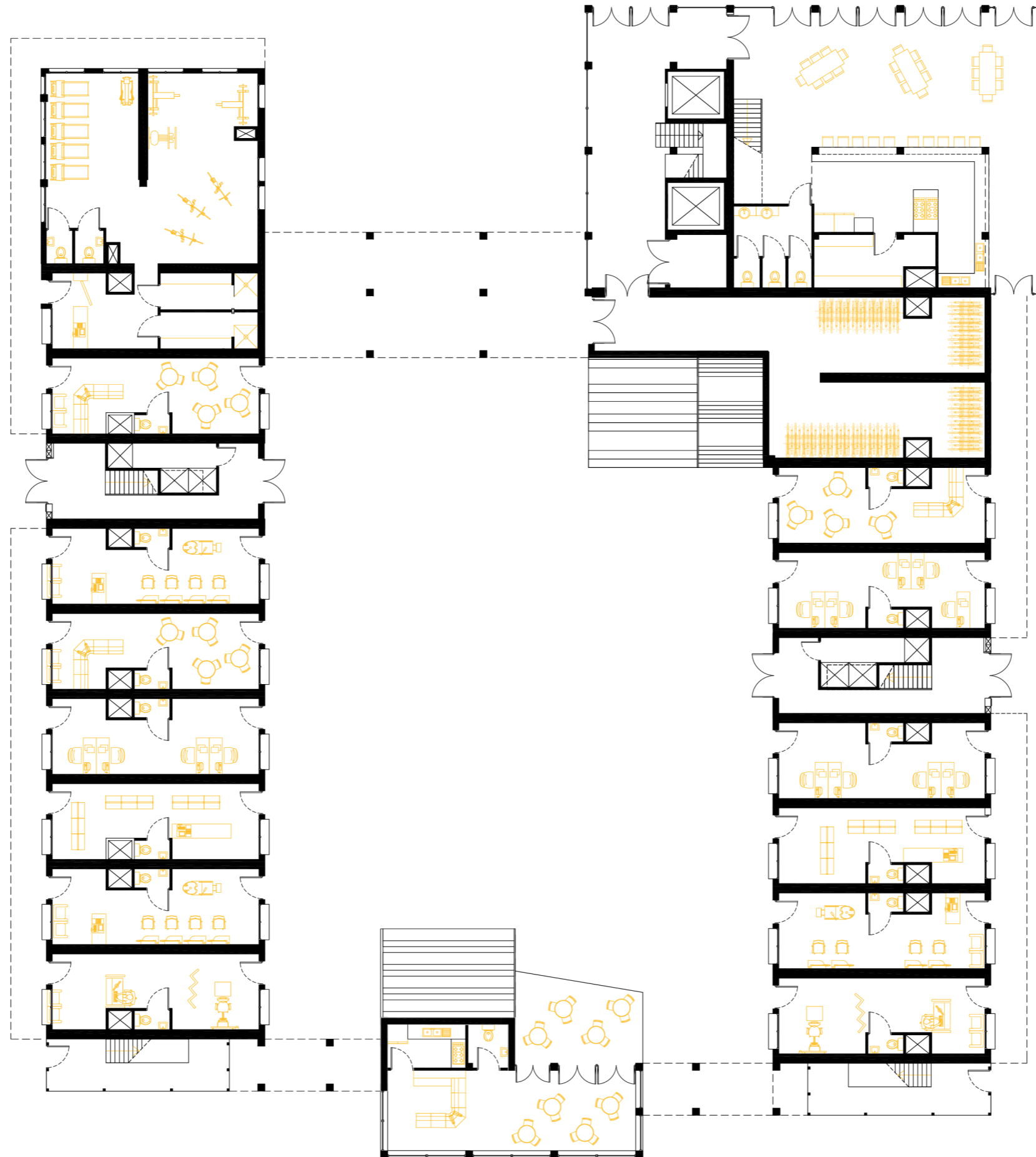


ROOFS

CAPTURING WISHES / CONCEPT / AXONOMETRIC VIEW

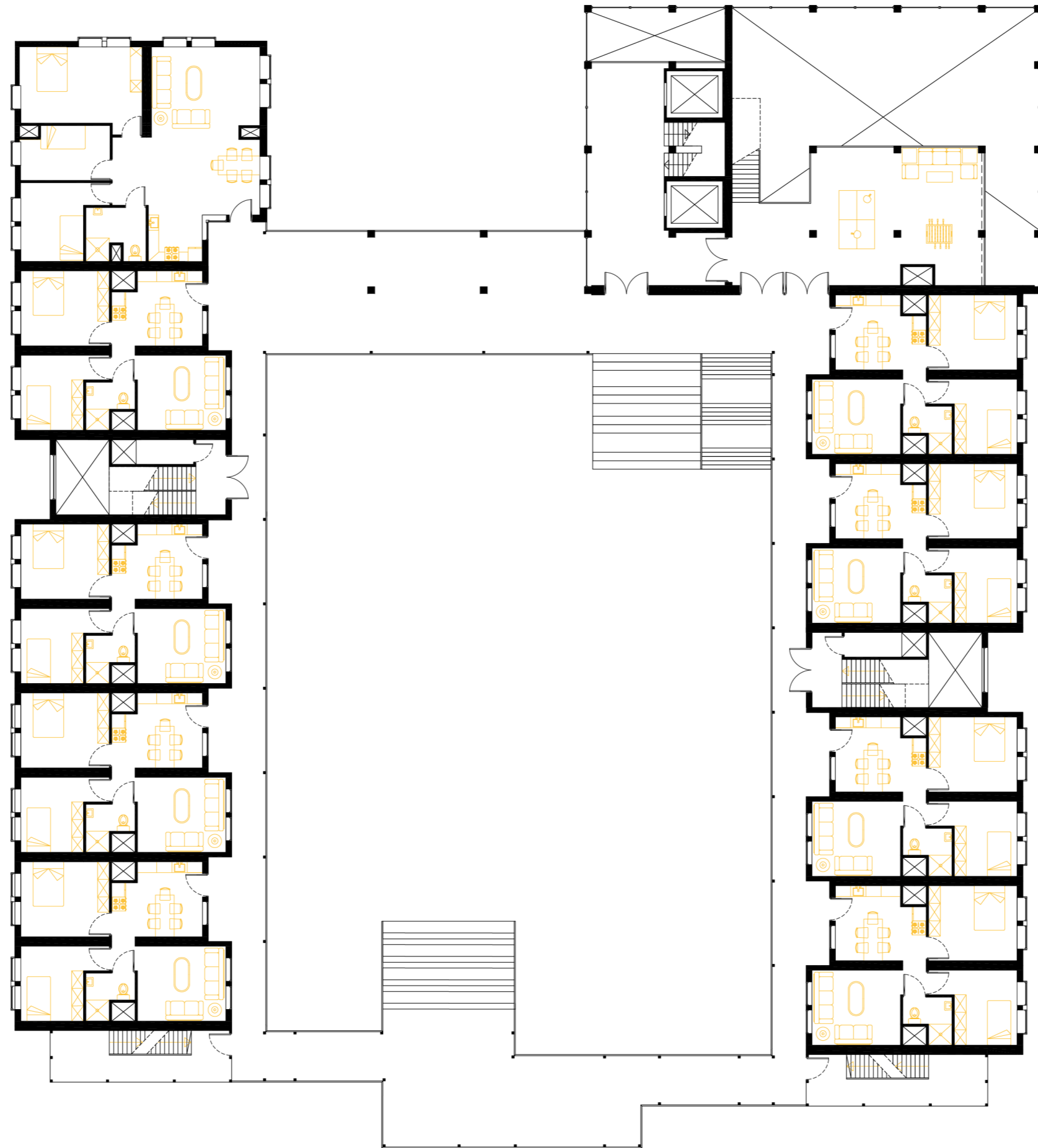
AXONOMETRIC

ANNA BUI TER / 4538765



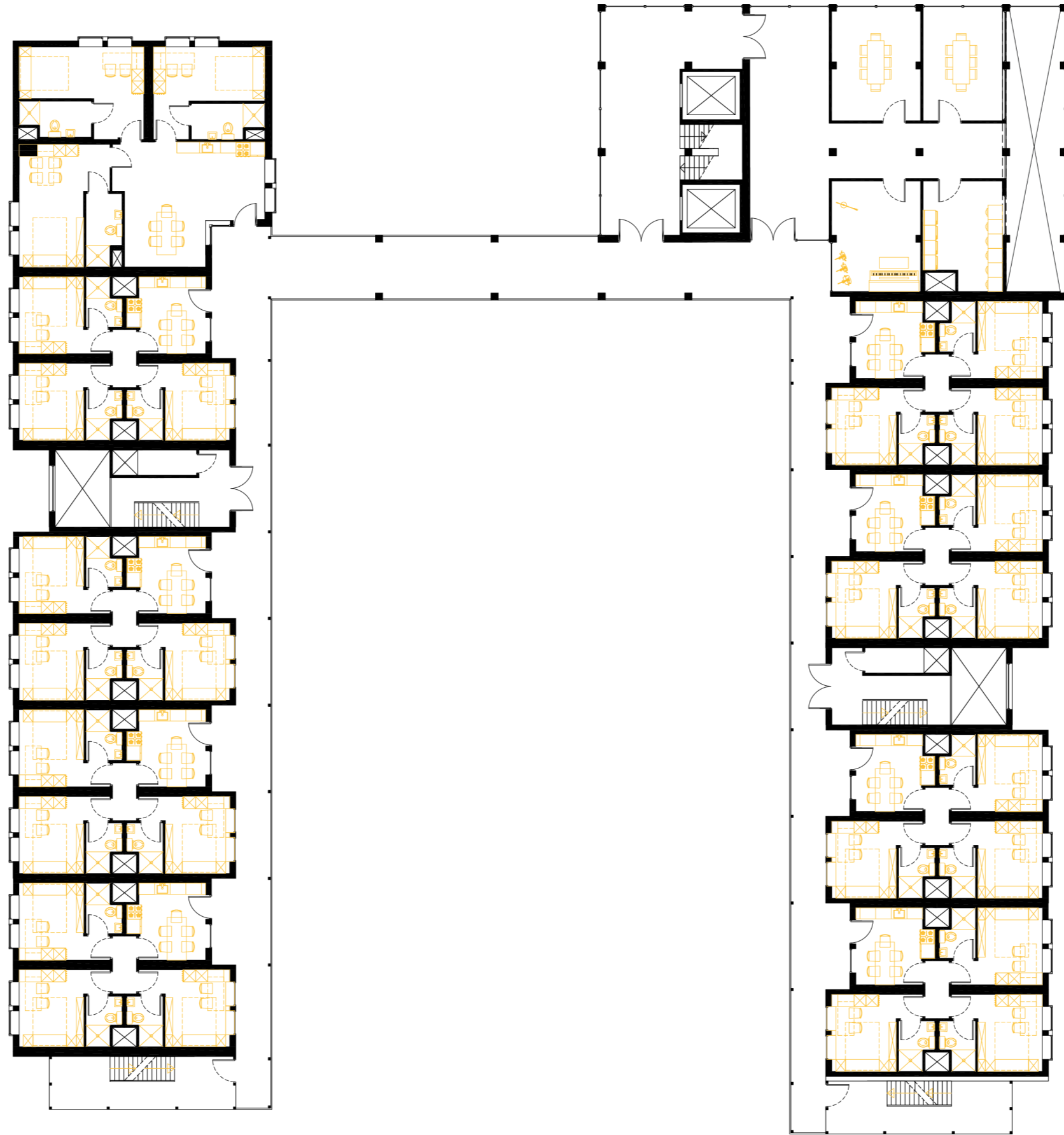
GROUND FLOOR

CAPTURING WISHES / ARCHITECTURE / FLOORPLANS



1ST FLOOR

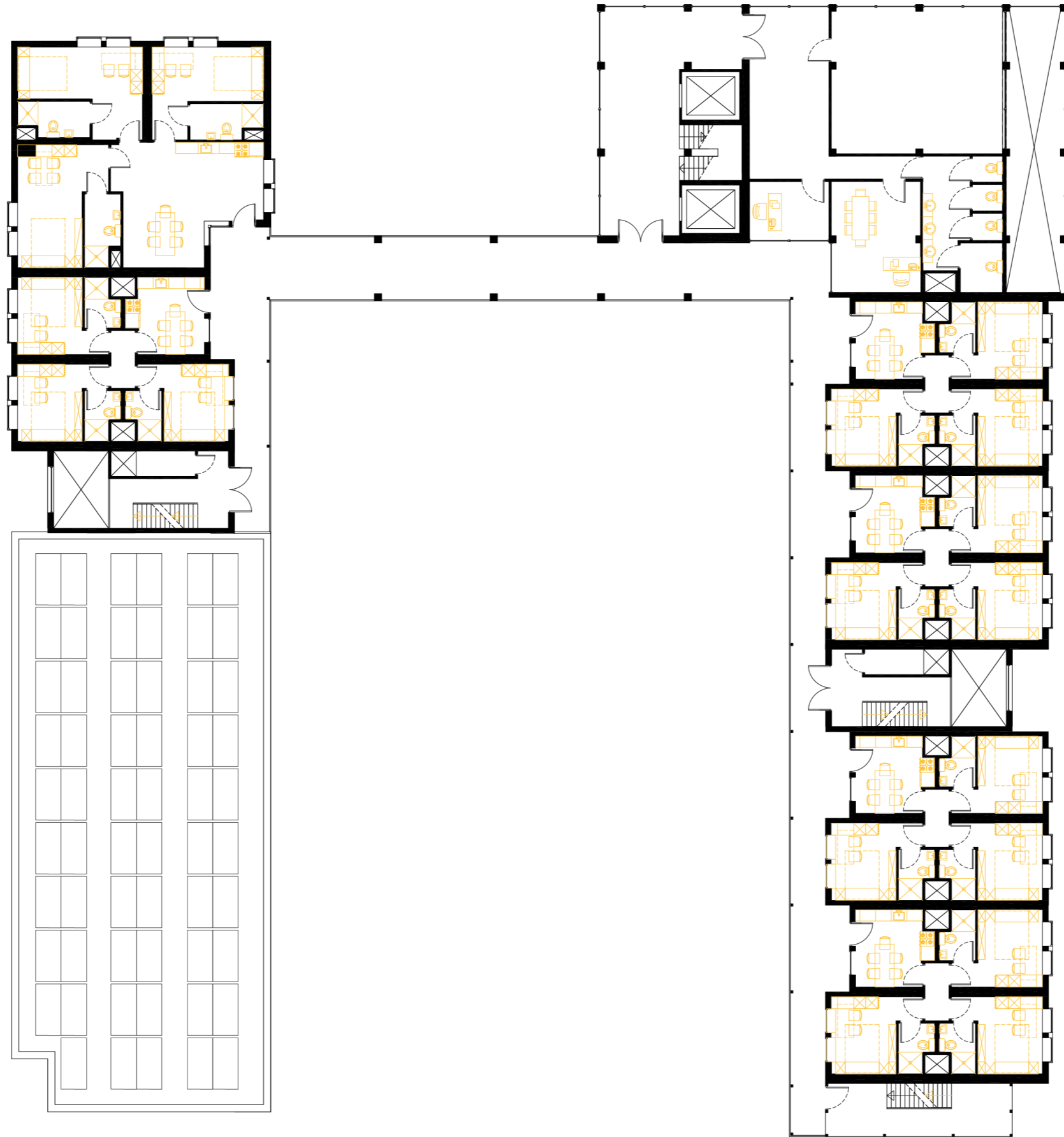
CAPTURING WISHES / ARCHITECTURE / FLOORPLANS



2ND FLOOR

CAPTURING WISHES / ARCHITECTURE / FLOORPLANS

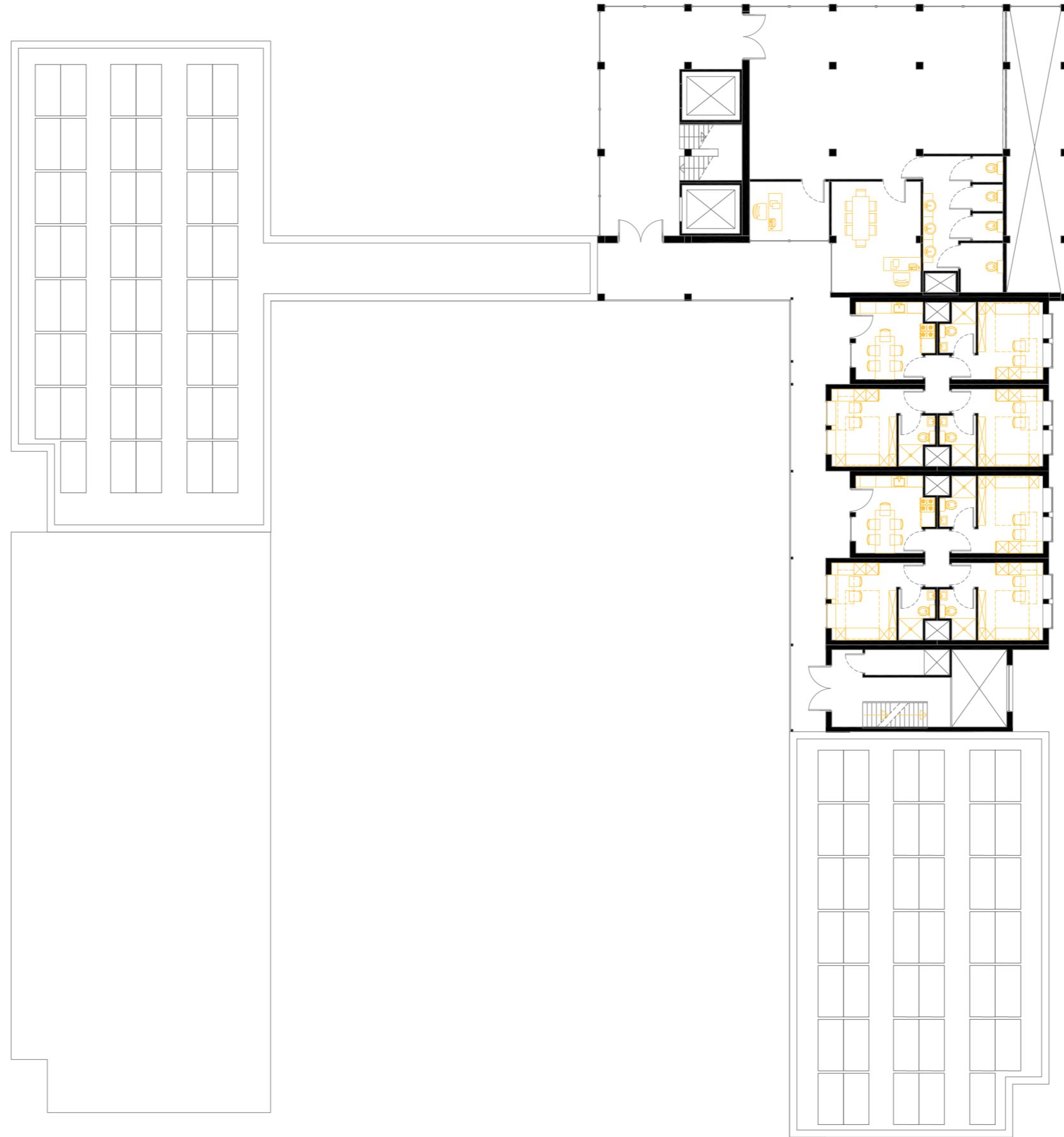
 **SCALE 1:200**
ANNA BUIITER / 4538765



3RD FLOOR

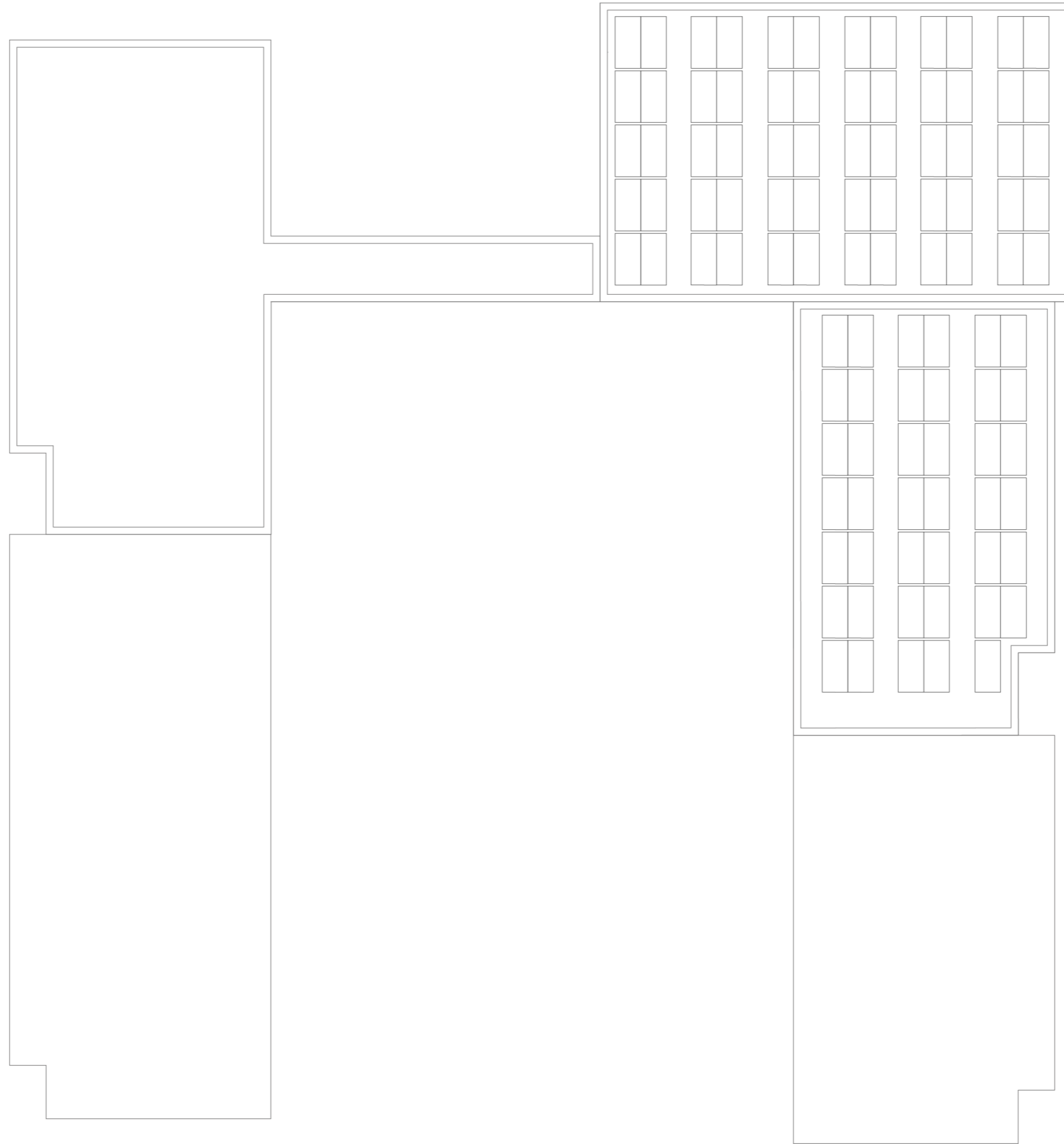
CAPTURING WISHES / ARCHITECTURE / FLOORPLANS

SCALE 1:200
ANNA BUI TER / 4538765



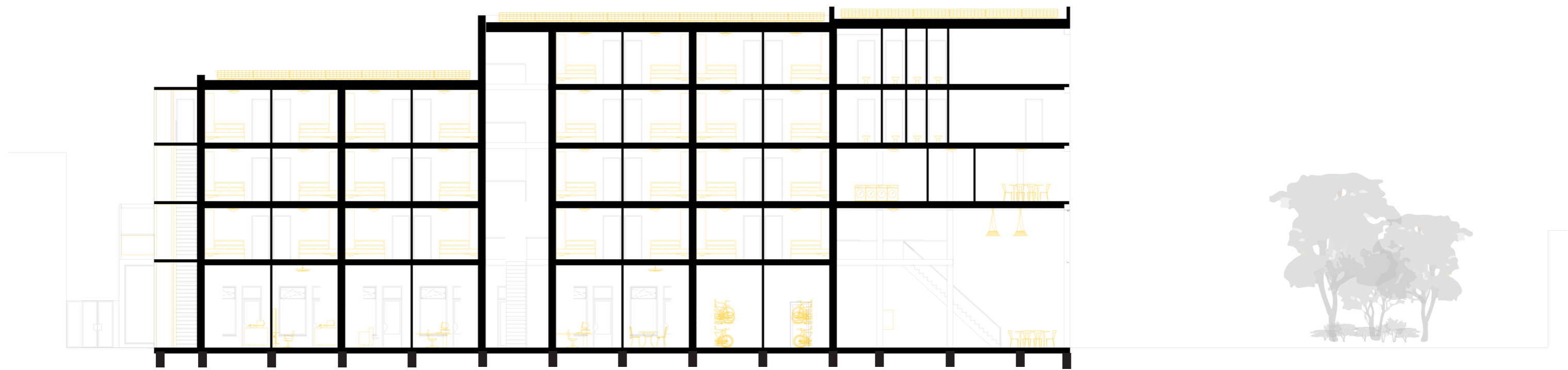
4TH FLOOR

CAPTURING WISHES / ARCHITECTURE / FLOORPLANS



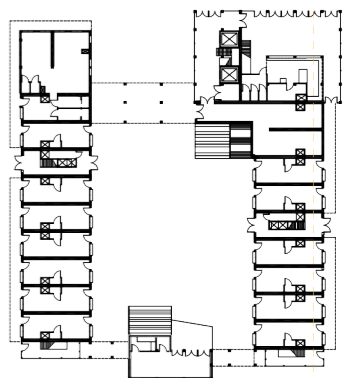
5TH FLOOR

CAPTURING WISHES / ARCHITECTURE / FLOORPLANS



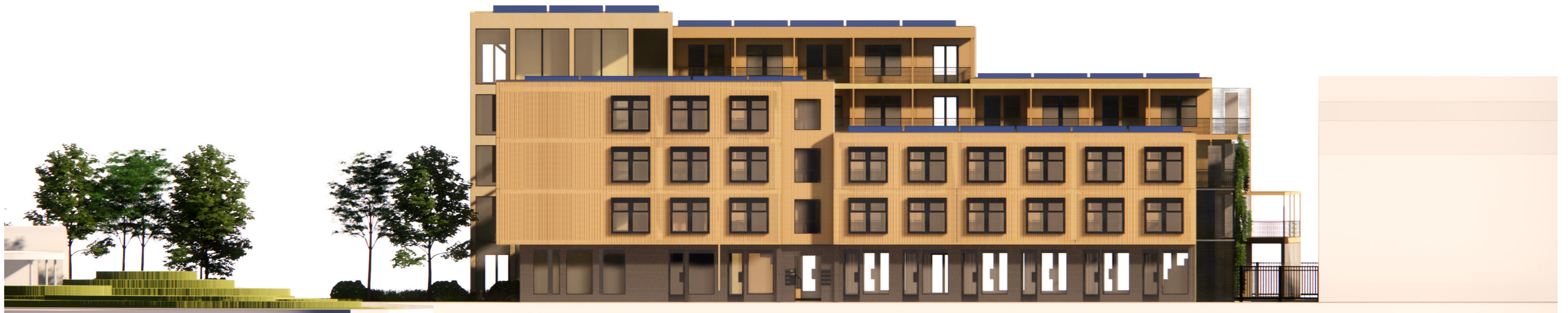
SECTION B-B'

CAPTURING WISHES / ARCHITECTURE / SECTION



SCALE 1:200

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ELEVATION WEST

CAPTURING WISHES / ARCHITECTURE / ELEVATION

SCALE 1:200

ANNA BUI TER / 4538765



ELEVATION NORTH

CAPTURING WISHES / ARCHITECTURE / ELEVATION

SCALE 1:200

ANNA BUI TER / 4538765



ELEVATION EAST

CAPTURING WISHES / ARCHITECTURE / ELEVATION

SCALE 1:200

ANNA BUI TER / 4538765

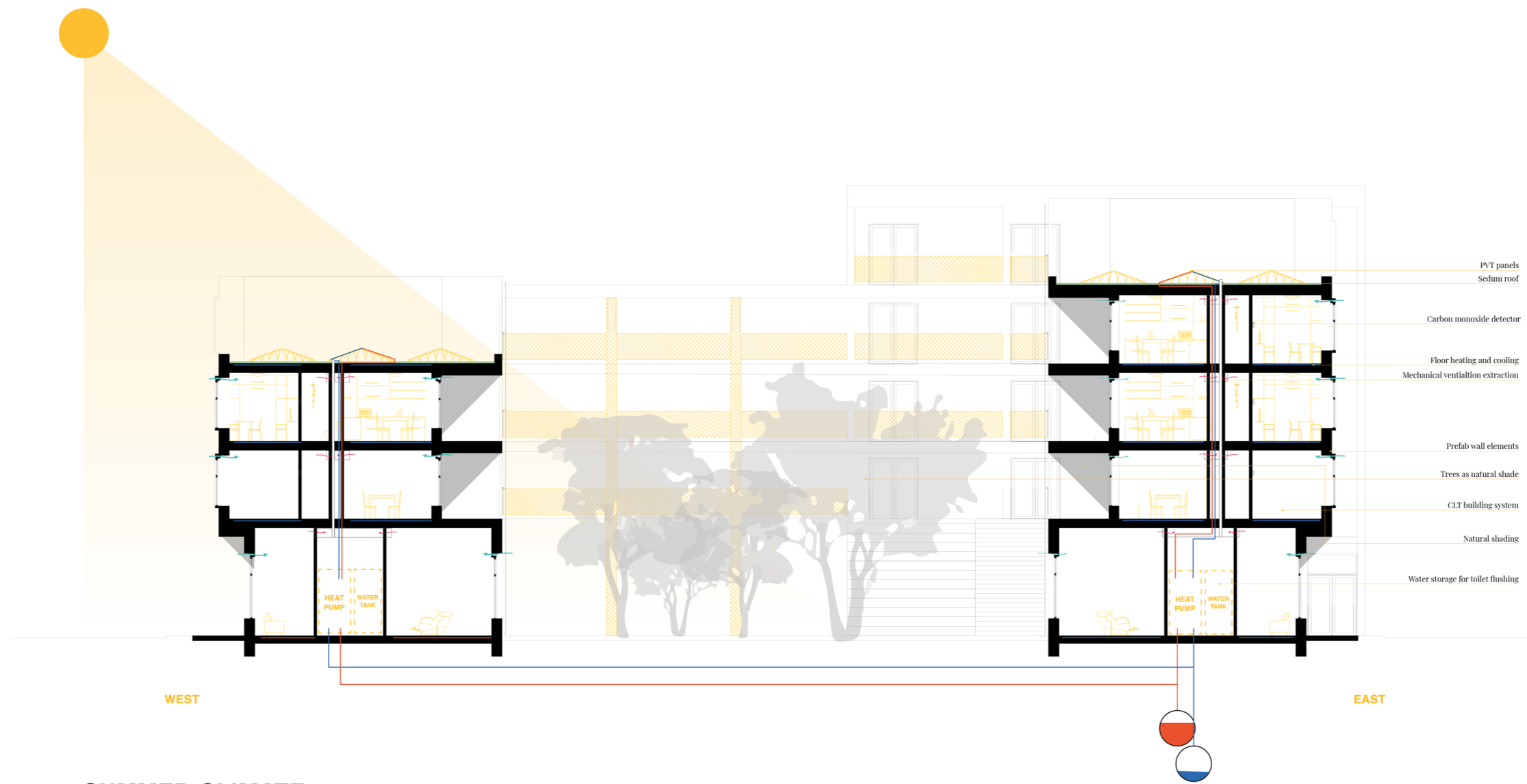


ELEVATION SOUTH

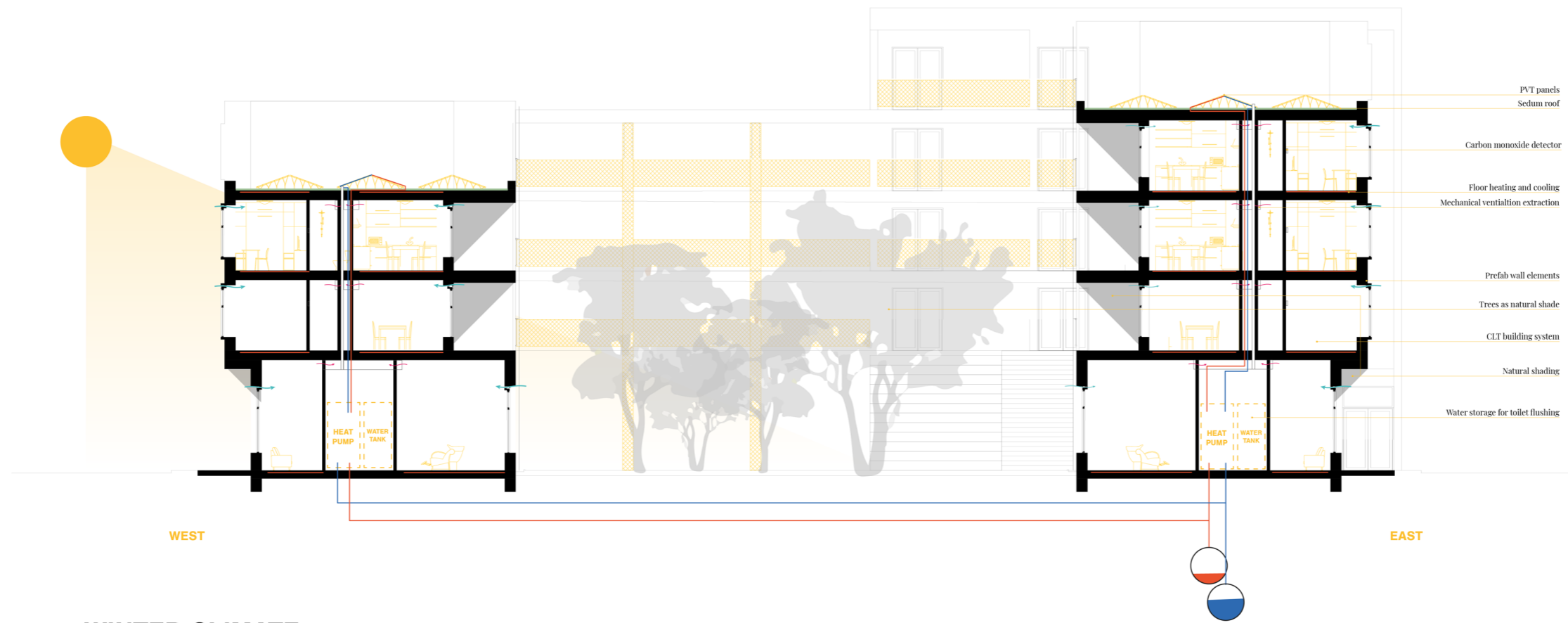
CAPTURING WISHES / ARCHITECTURE / ELEVATION

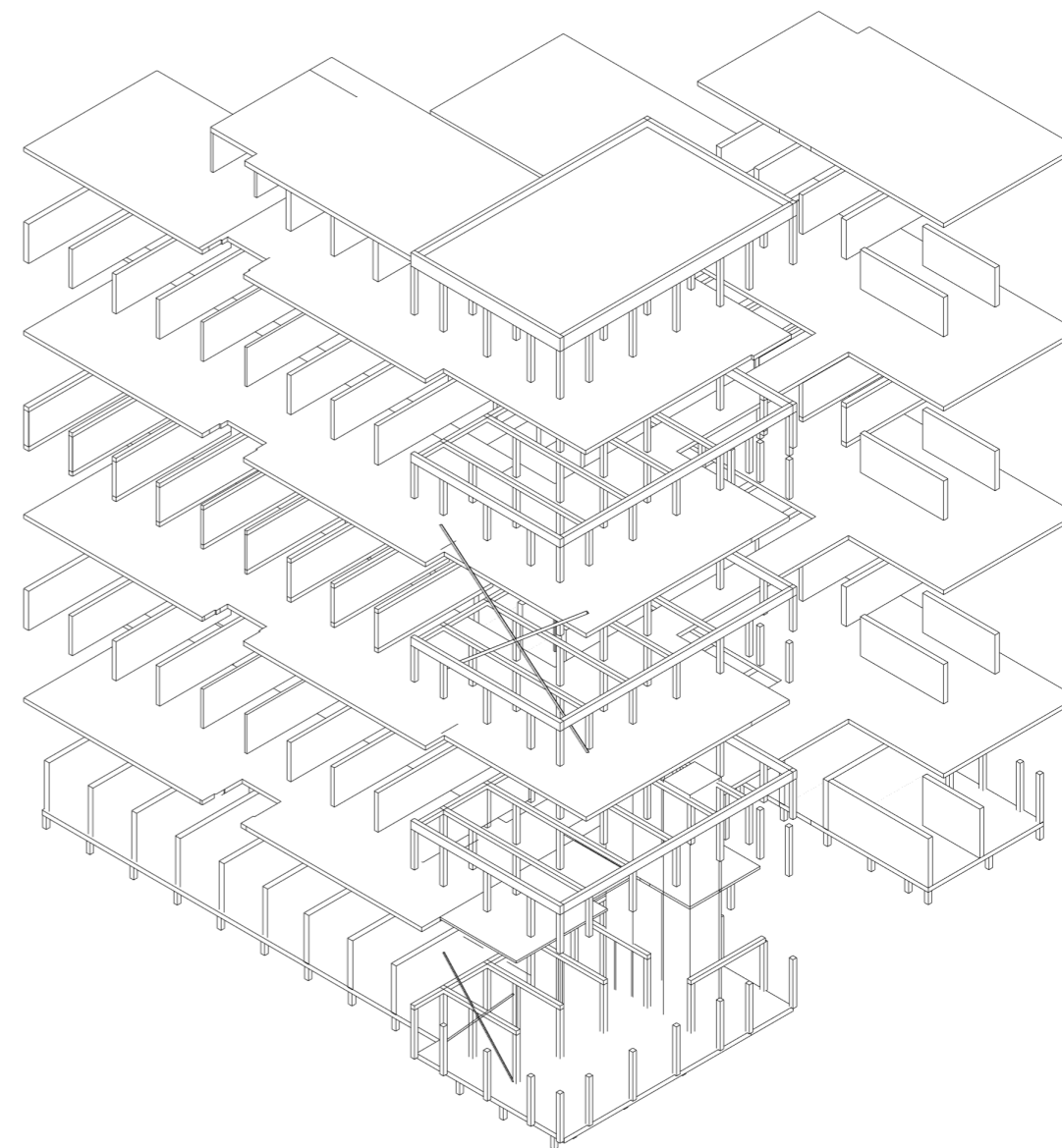
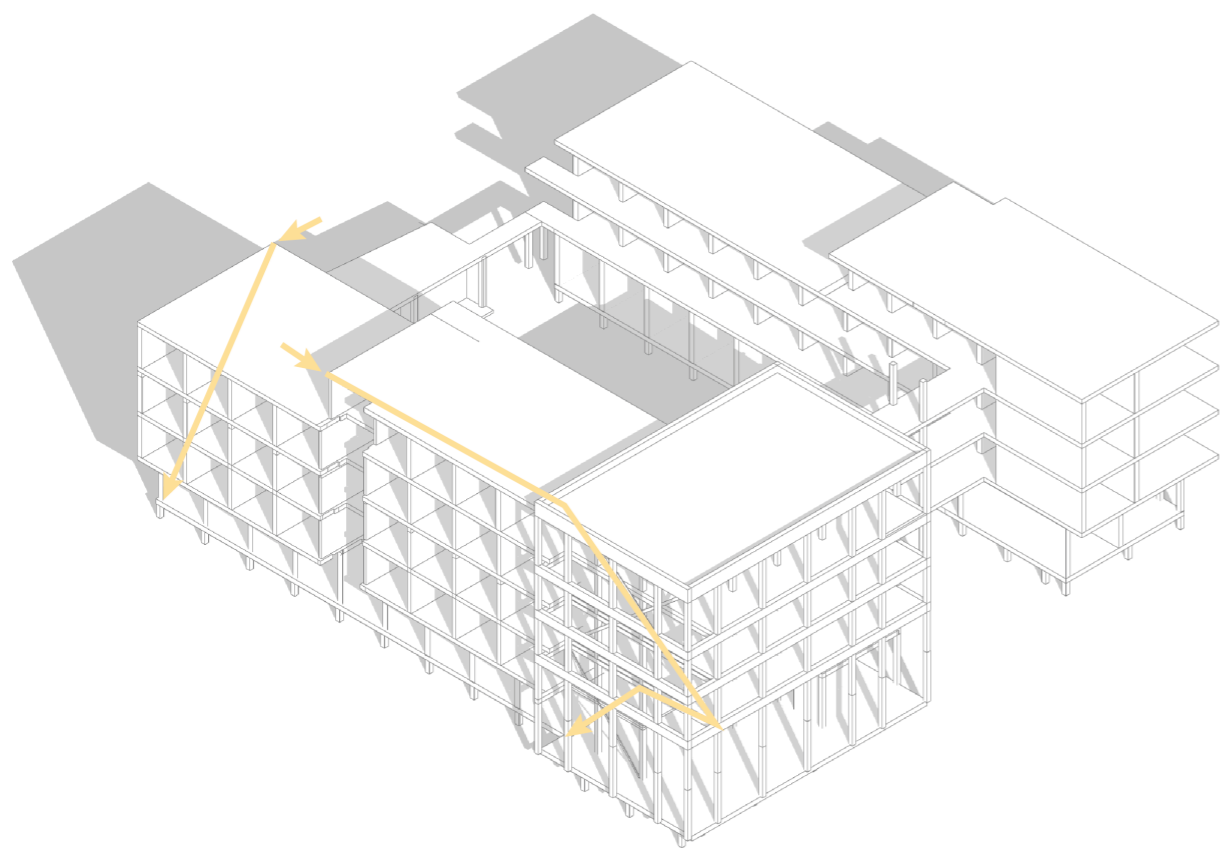
SCALE 1:200

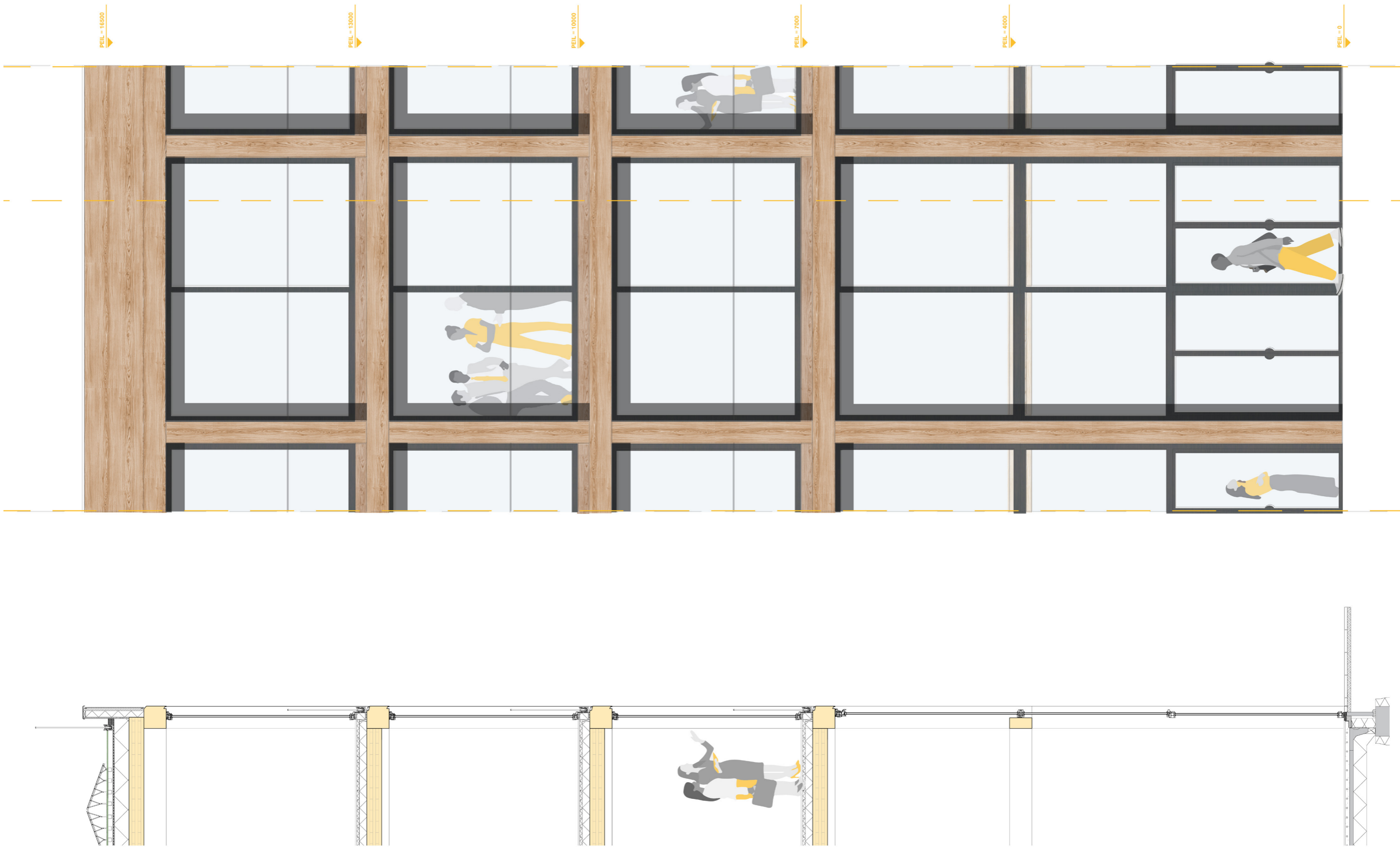
ANNA BUI TER / 4538765



SUMMER CLIMATE







FRAGMENT COMMUNITY HUB

CAPTURING WISHES / BUILDING TECHNOLOGY / FRAGMENT

SCALE 1:50
ANNA BUTTER / 4538765

**ROOF CONSTRUCTION
(TOP TO BOTTOM)**

- 20 mm sedum roll mat
- 60 mm roof soil layer
- filter layer
- reservoir layer
- drainage mat
- root barrier
- waterproof membrane
- 180 mm insulation Isovlas slope 2%
- 200 mm CLT panel

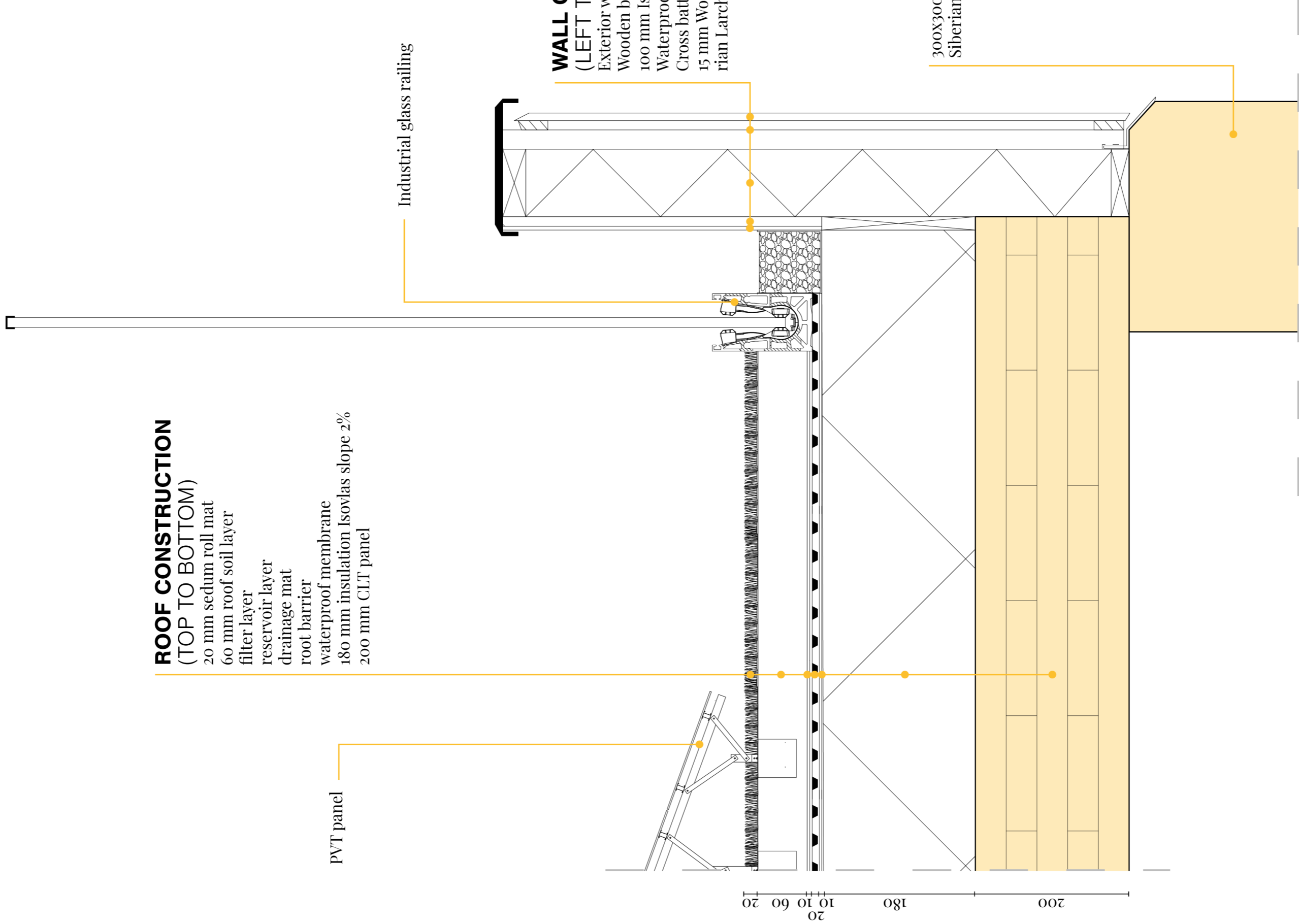
PVT panel

Industrial glass railing

**WALL CONSTRUCTION
(LEFT TO RIGHT)**

- Exterior wall finish
- Wooden battens
- 100 mm Isovlas insulation
- Waterproof foil
- Cross battens
- 15 mm Wooden cladding (Siberian Larch)

300x300mm Laminated
Siberian Lariks beam



**FLOOR CONSTRUCTION
(TOP TO BOTTOM)**

- Floorcover
- 2 x 12.5 mm Fermacell Gypsum Fibre Board with floor-heating
- 60 mm Fermacell EPS 150 kPa
- 40 mm Fermacell honeycomb system
- 200 mm CLT panel

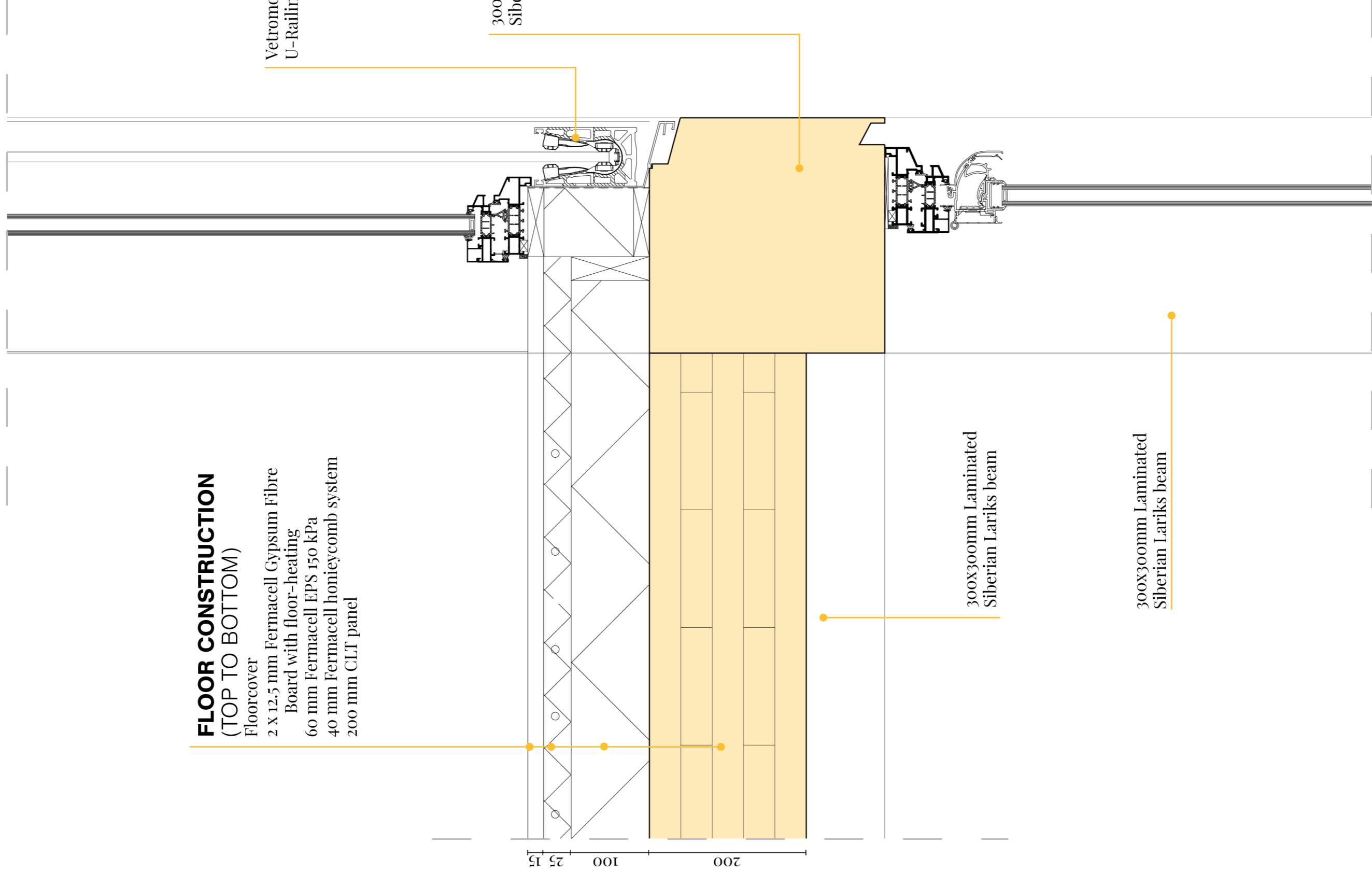
Vetromount Glass Aluminium
U-Railing

300x300mm Laminated
Siberian Lariks beam

300x300mm Laminated
Siberian Lariks beam

300x300mm Laminated
Siberian Lariks beam

15
25
100
200



**FLOOR CONSTRUCTION
(TOP TO BOTTOM)**

- Floorcover
- 60 mm Screed layer with floor heating/cooling
- 50 mm Ribcasettefloor
- 180 mm Isovlas insulation

