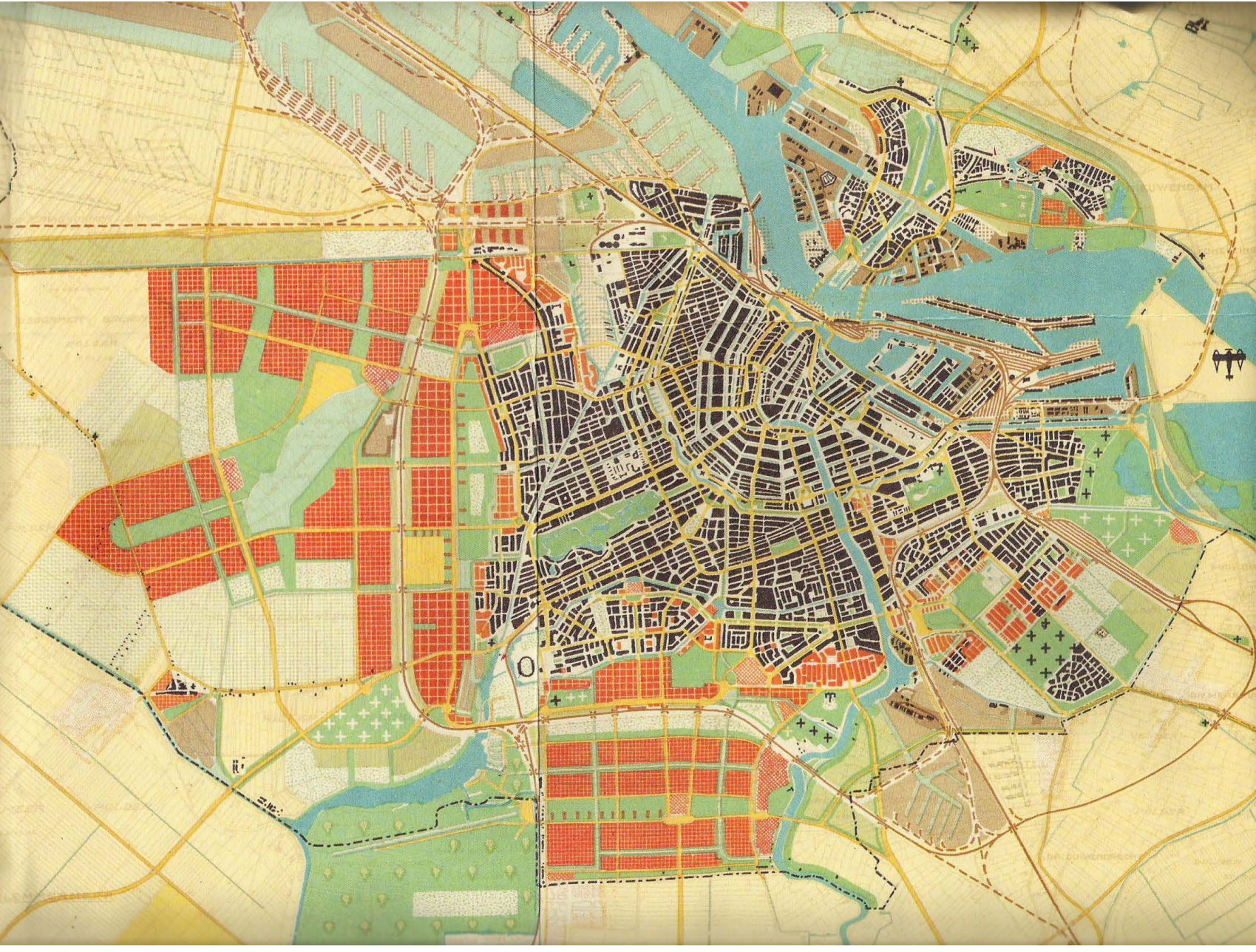


AIR

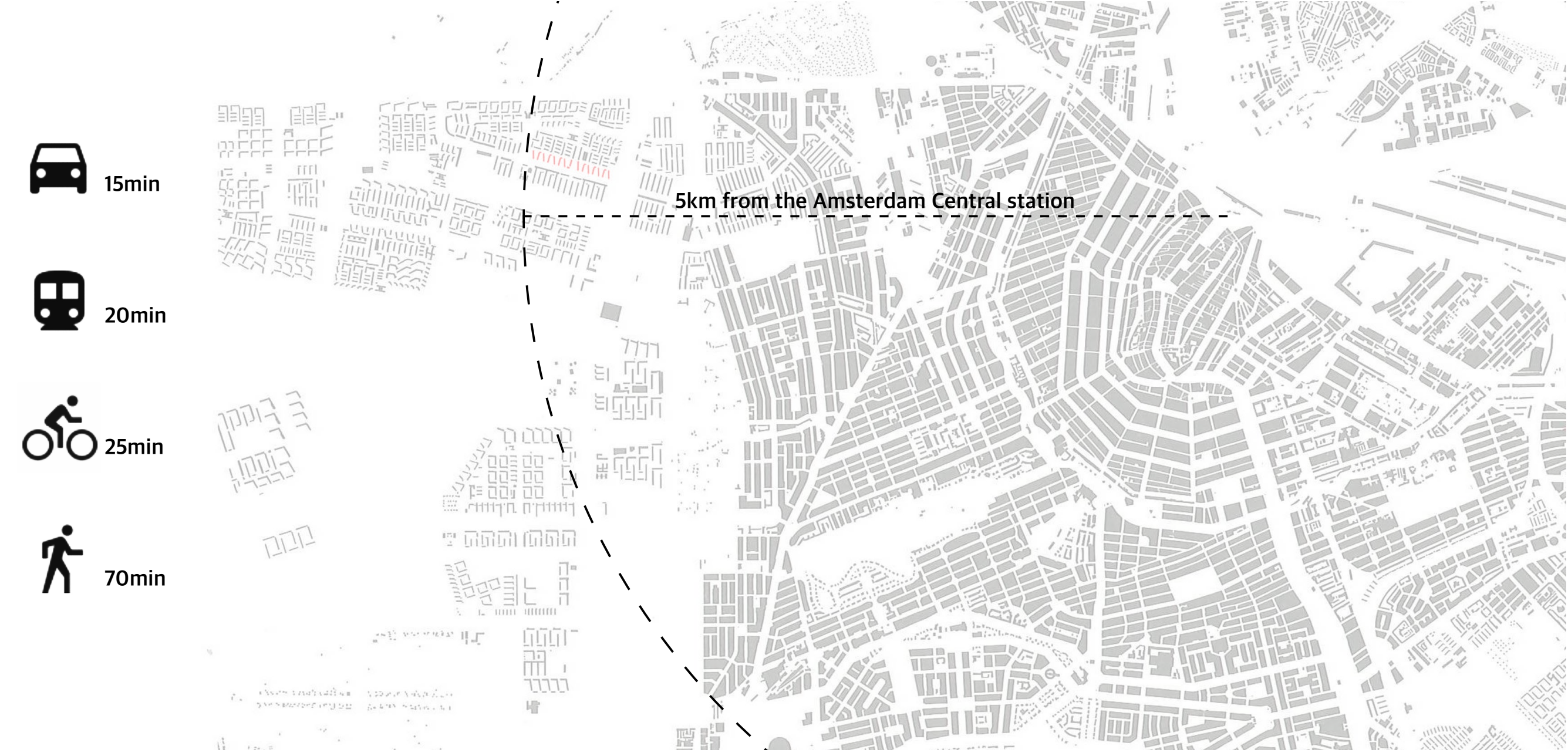
The refabrication of the Airey system for the second-generation to come, focusing on the design case 'Airey-strip blocks' in Amsterdam Nieuw-West.

I. CULTURAL VALUE & STATEMENT

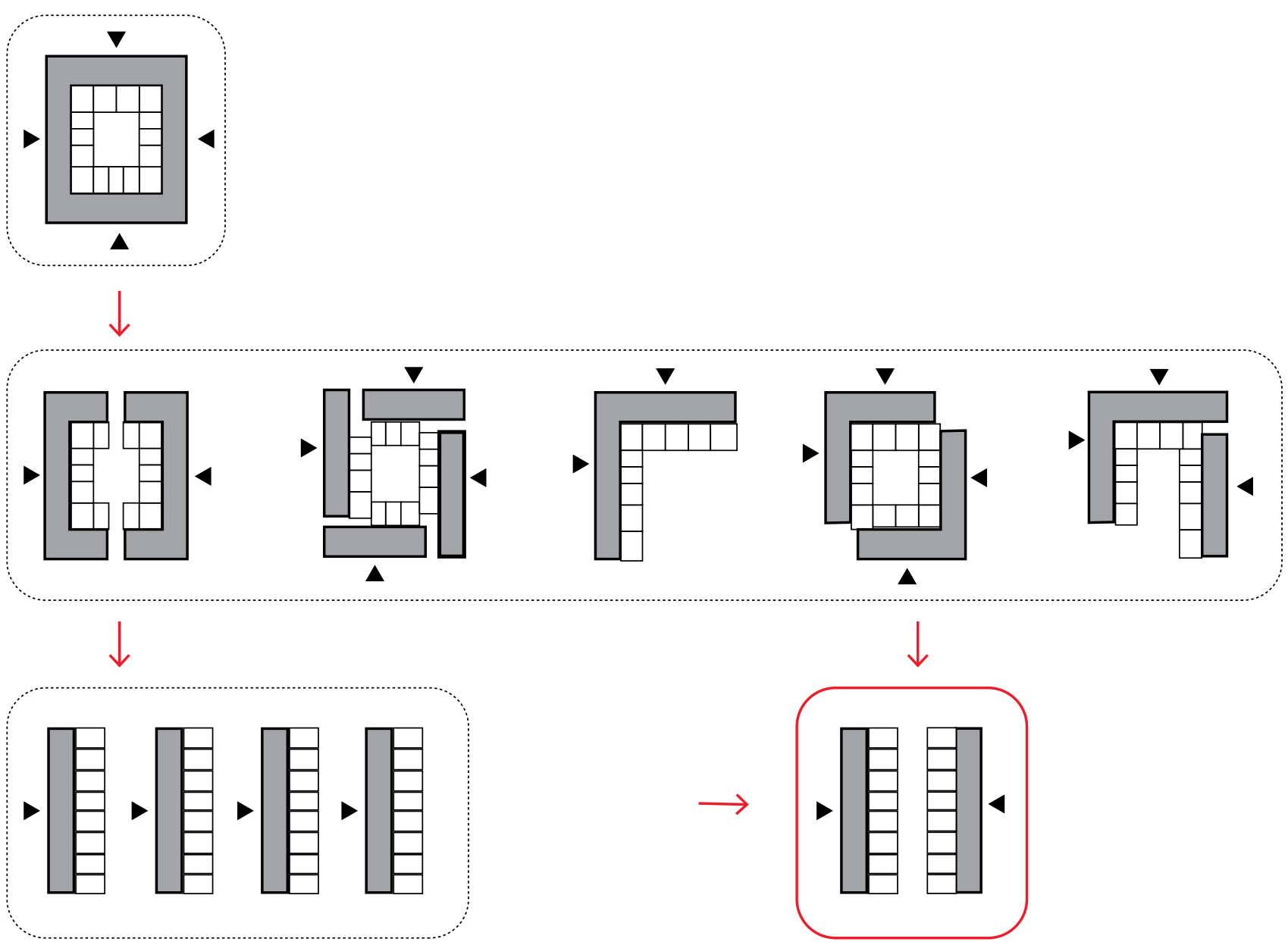
ALGEMEEN UITBREIDINGSPLAN VAN AMSTERDAM



ADVANTAGE OF LOCATION _ PUBLIC TRANSPORTATION



LIGHT _ OPEN BLOCK PLANNING



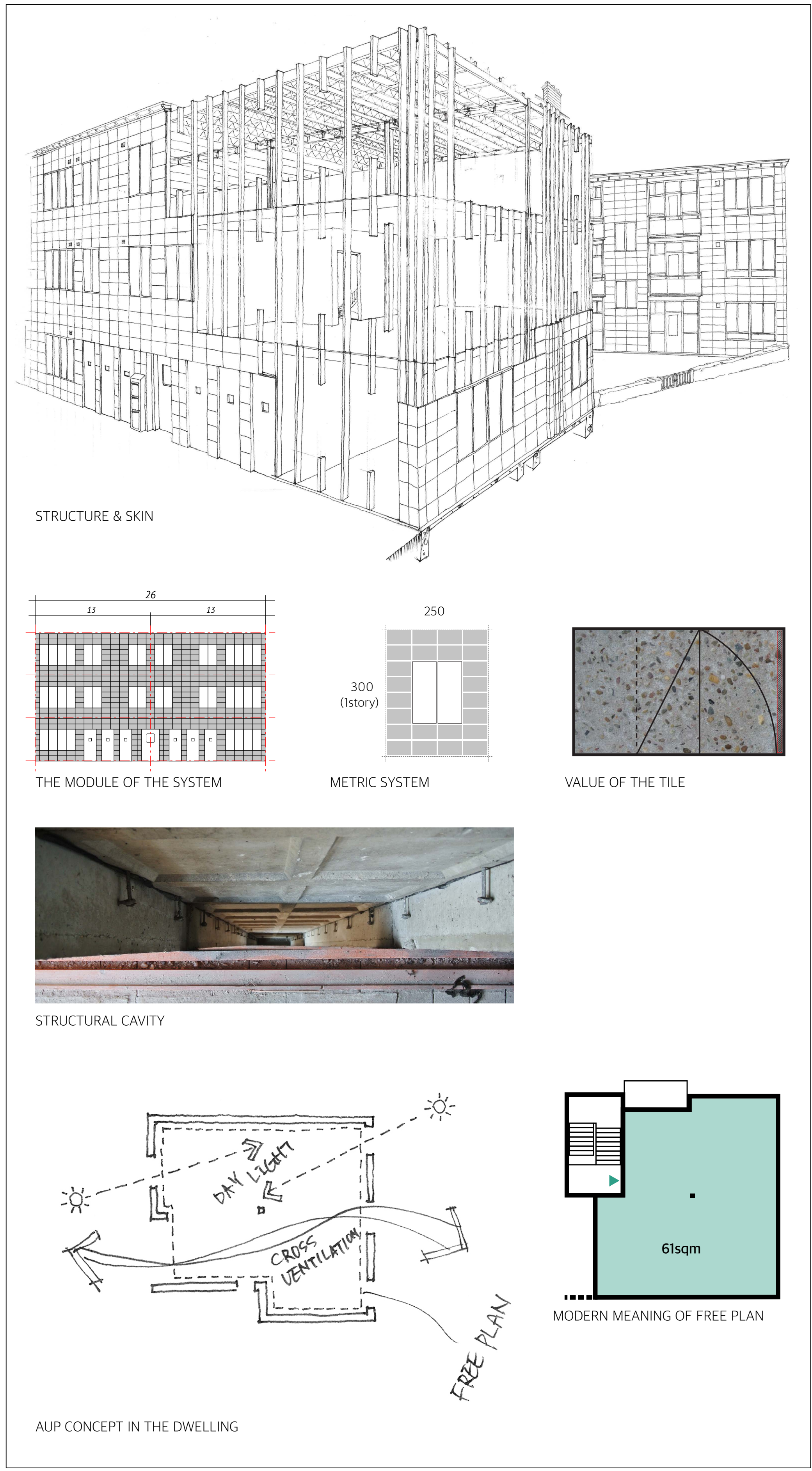
AIR _ GARDEN CITY



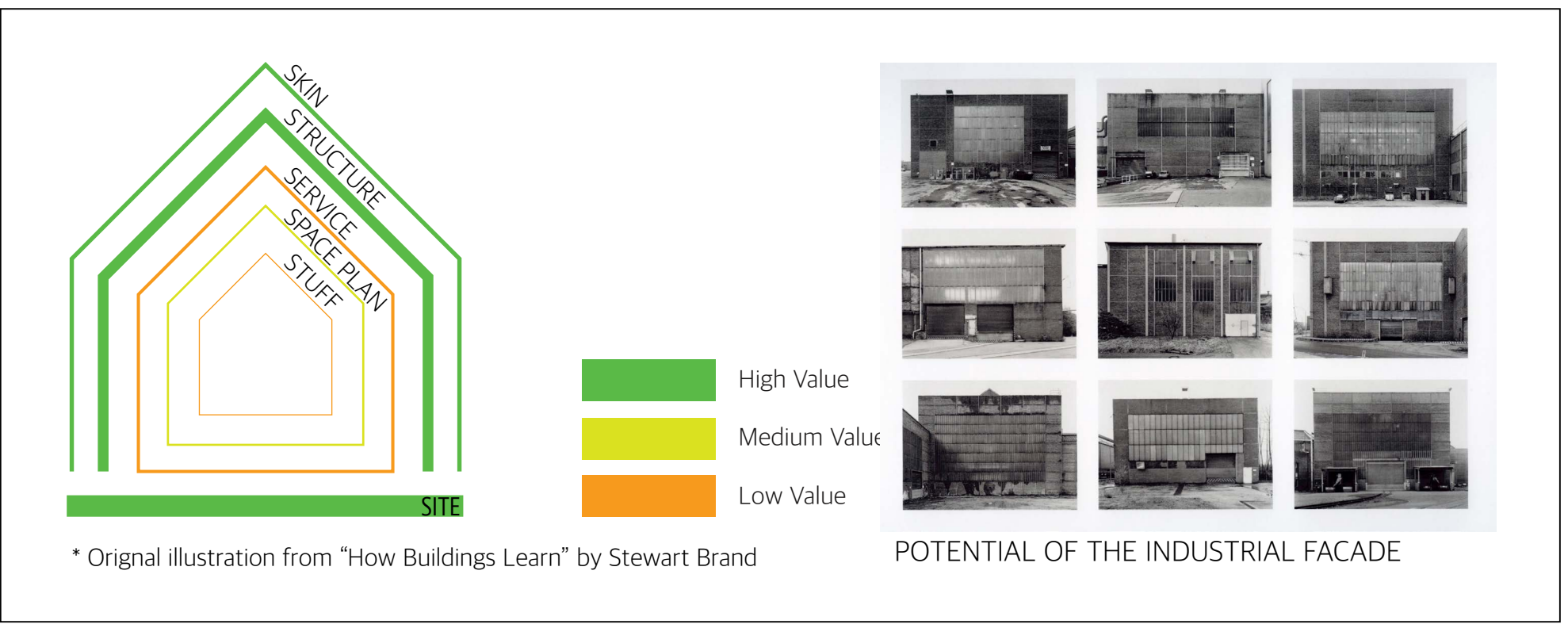
SPACE _ CONTINUOUS OPEN SPACE



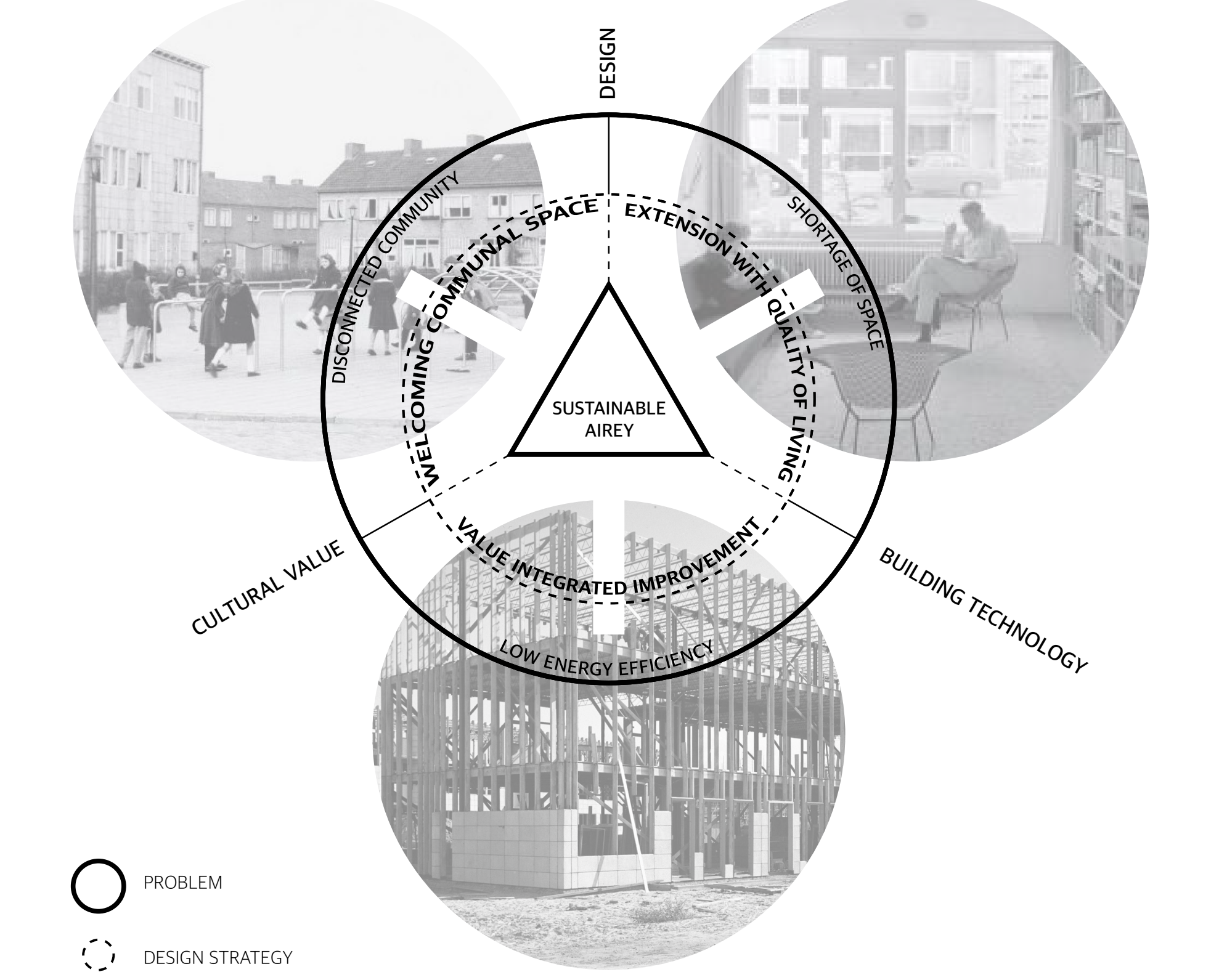
CULTURAL VALUE



VALUE ASSESSMENT



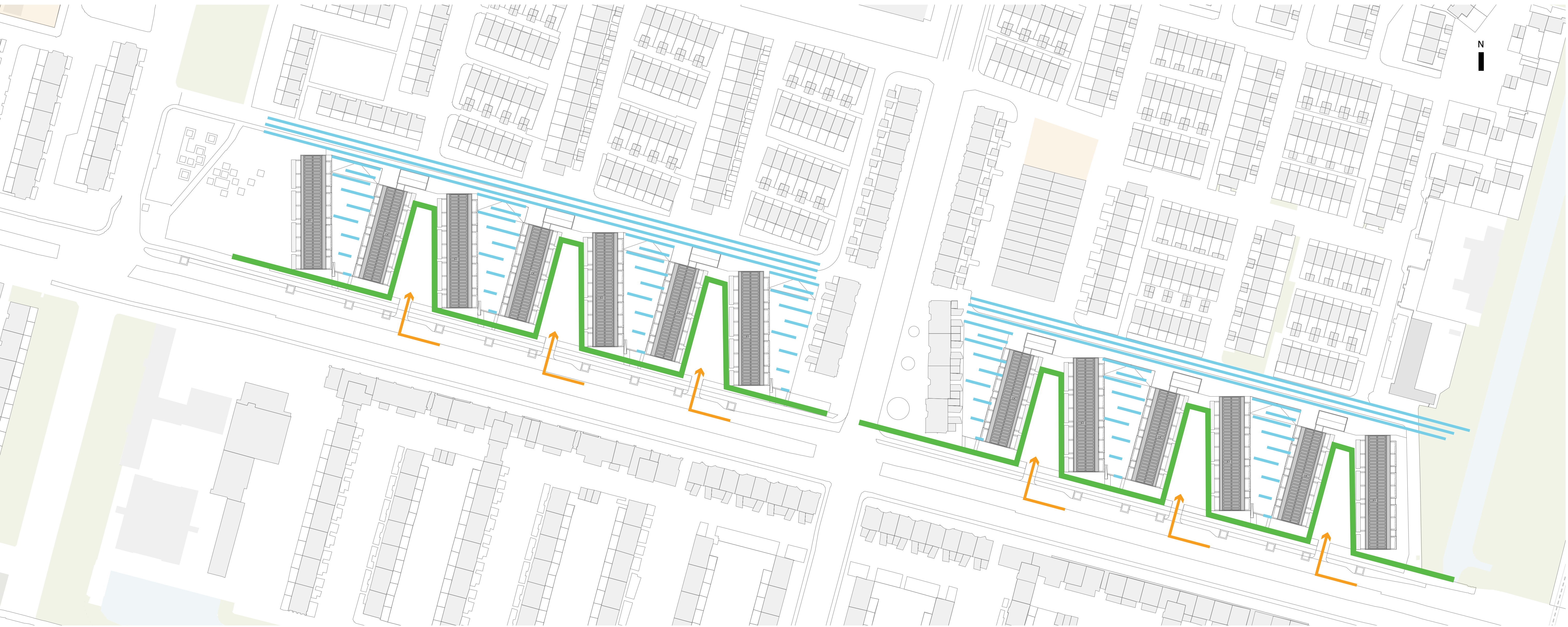
DESIGN STRATEGY



DESIGN AMBITION



MASTER PLAN SCALE 1/1000



AIR E FABRICATION

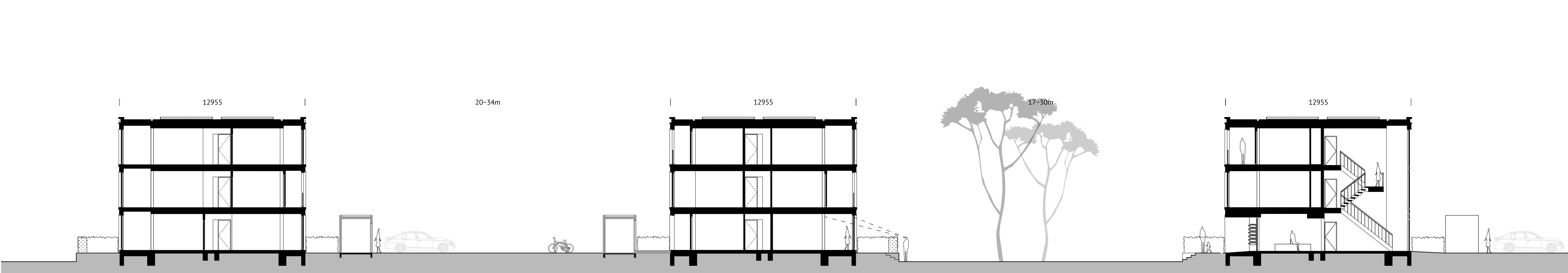
The refabrication of the Airey system for the second-generation to come, focusing on the design case 'Airey-strip blocks' in Amsterdam Nieuw-West.

II. WELCOMING COMMUNAL SPACE

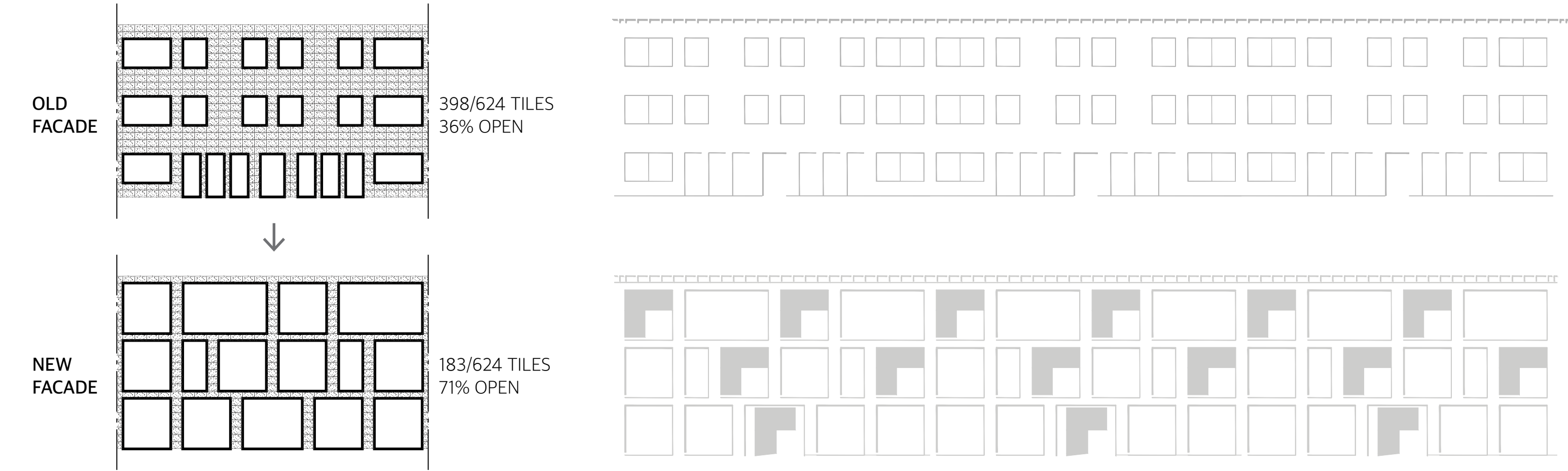
GROUND FLOOR PLAN SCALE 1/200



SITE SECTION AA SCALE 1/200



FACADE IMPRESSION SCALE 1/200

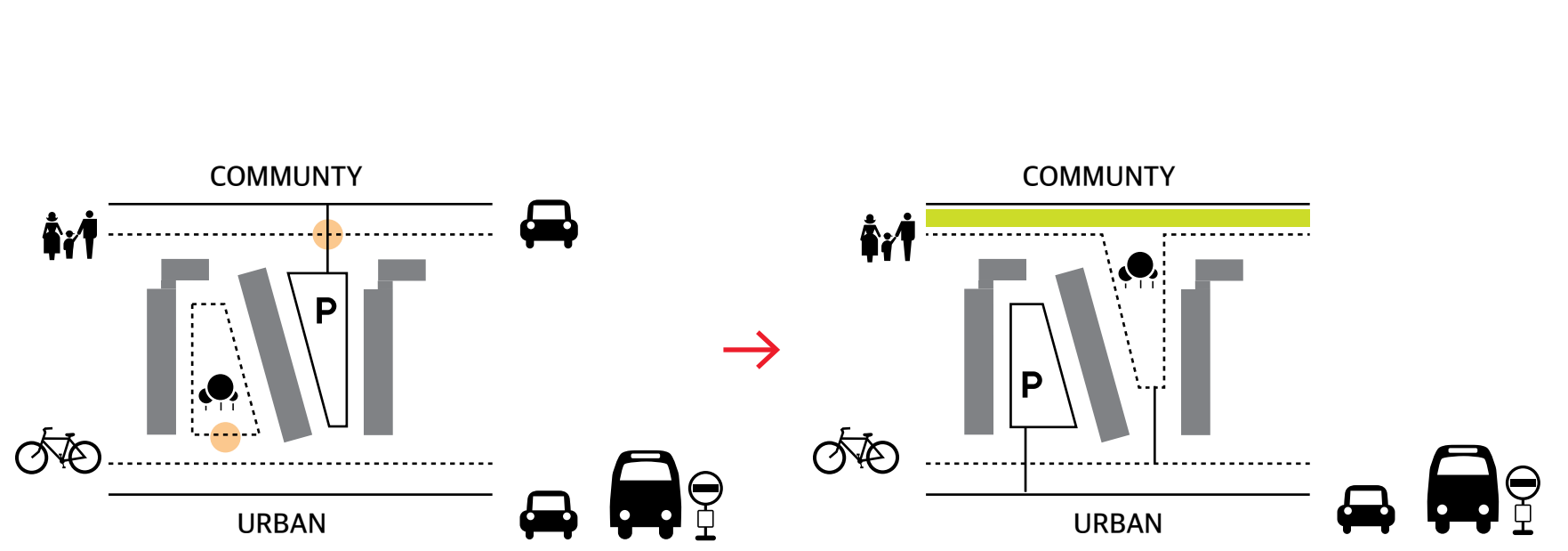


BLOCK ELEVATION SCALE 1/100

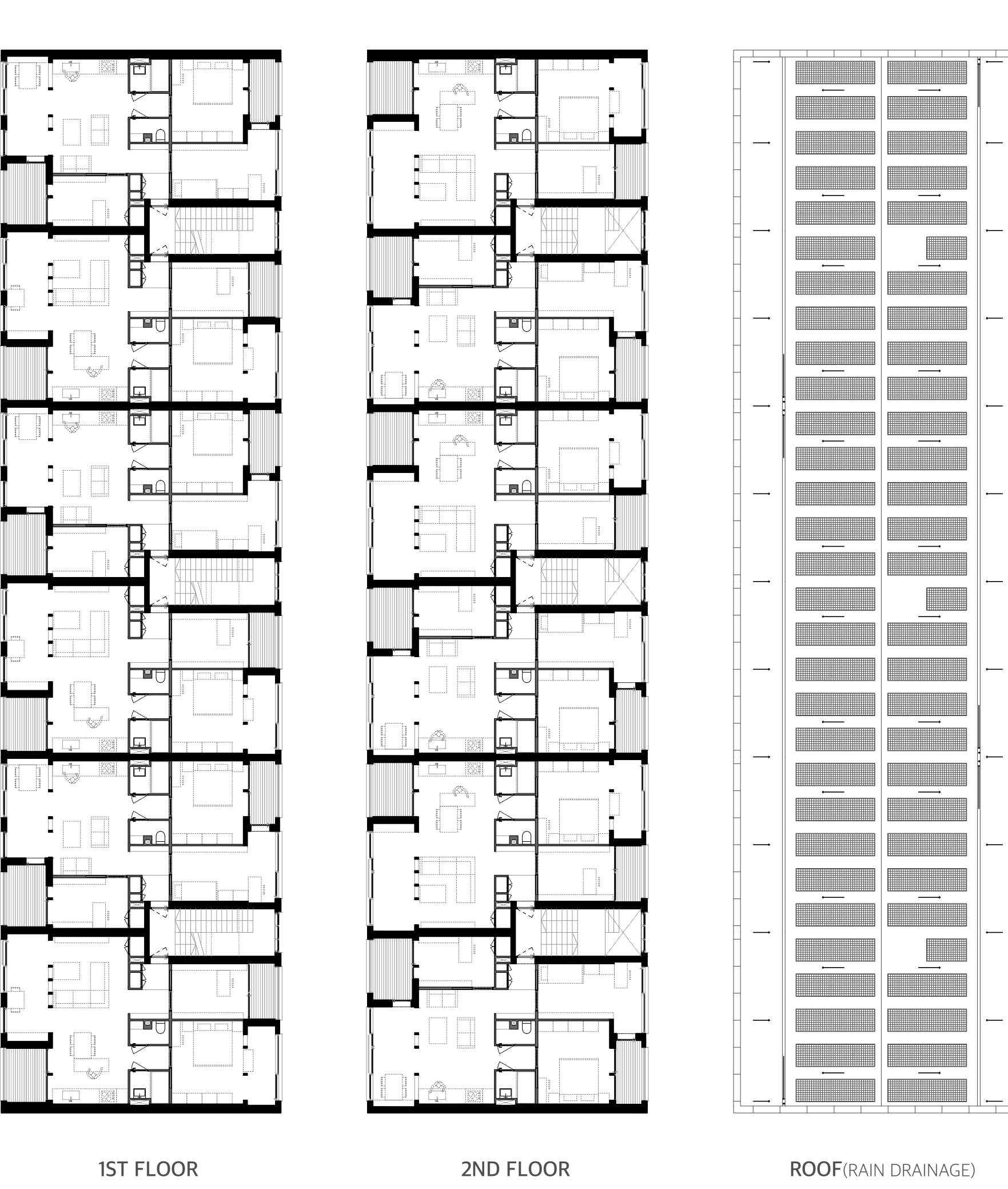


WEST ELEVATION - COMMUNAL GARDEN SIDE

REESTABLISHMENT OF THE URBAN STRUCTURE



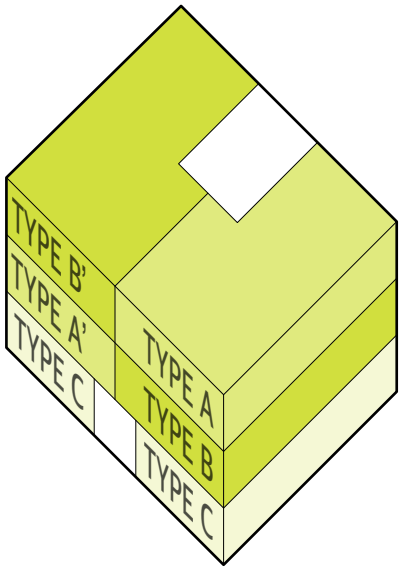
BLOCK FLOOR PLAN SCALE 1/200



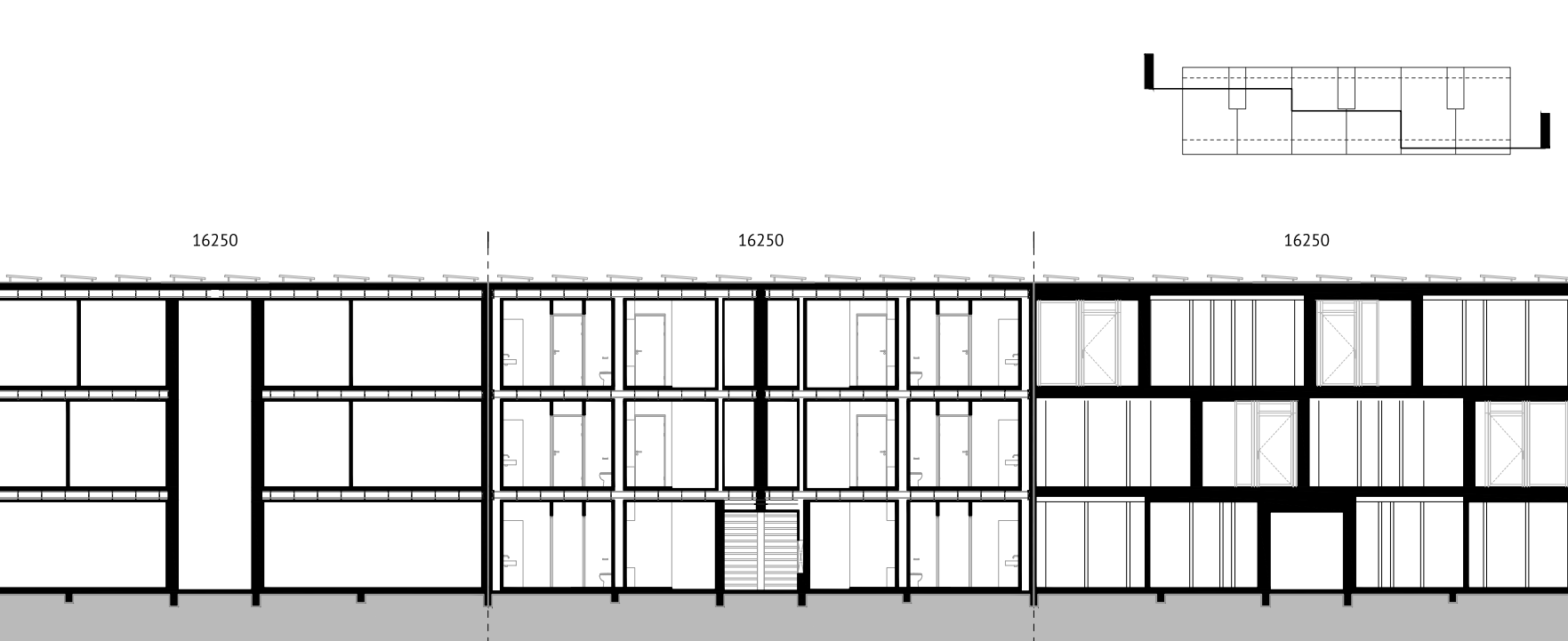
DATA

PARKING SPOTS:
28 SITE PARKING + EXTRA ROAD PARKING
80 BIKE RACK (2 PER DWELLING)

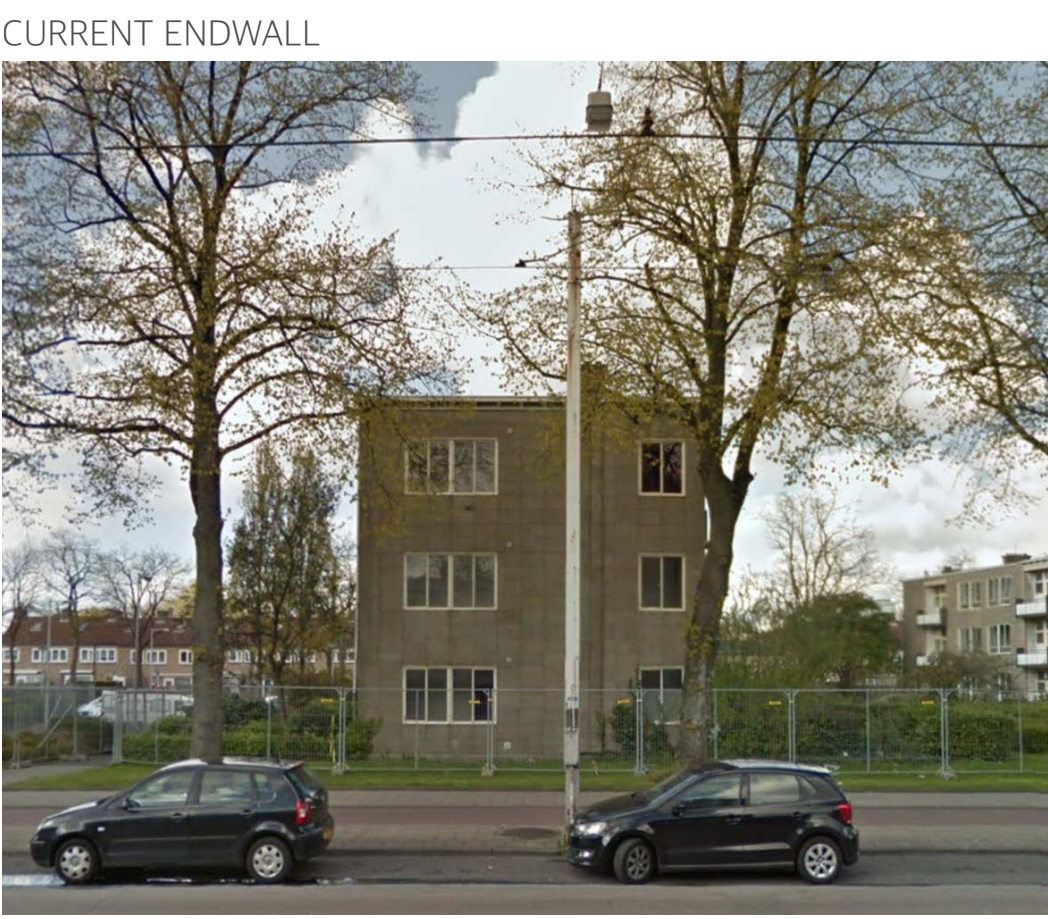
STRUCTURE:
REUSE OLD AIREY SYSTEM
CLT STRUCTURE (130mm wall + 175mm floor)
PREFABRICATED CONCRETE FOUNDATION



BLOCK SECTION SCALE 1/200

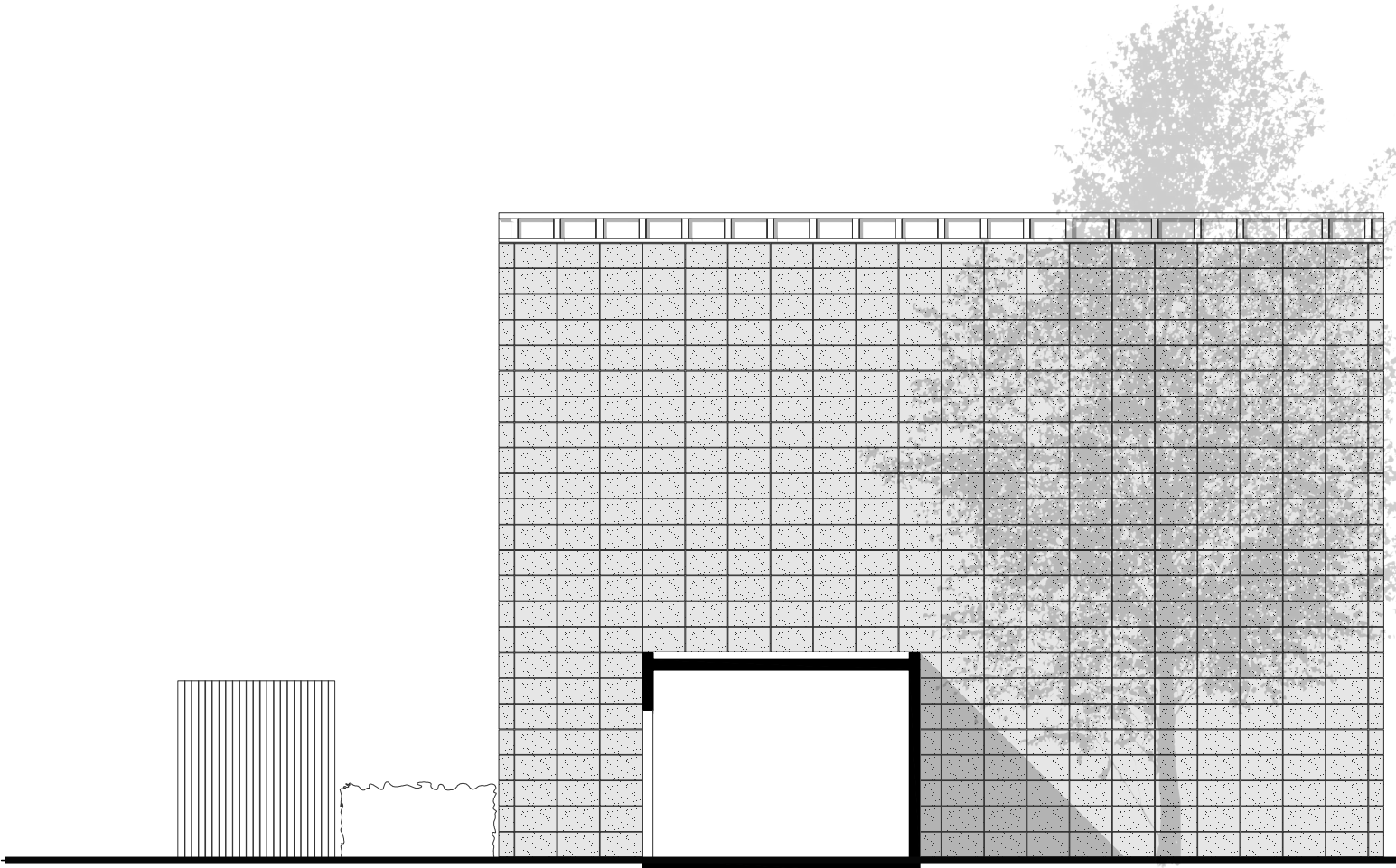
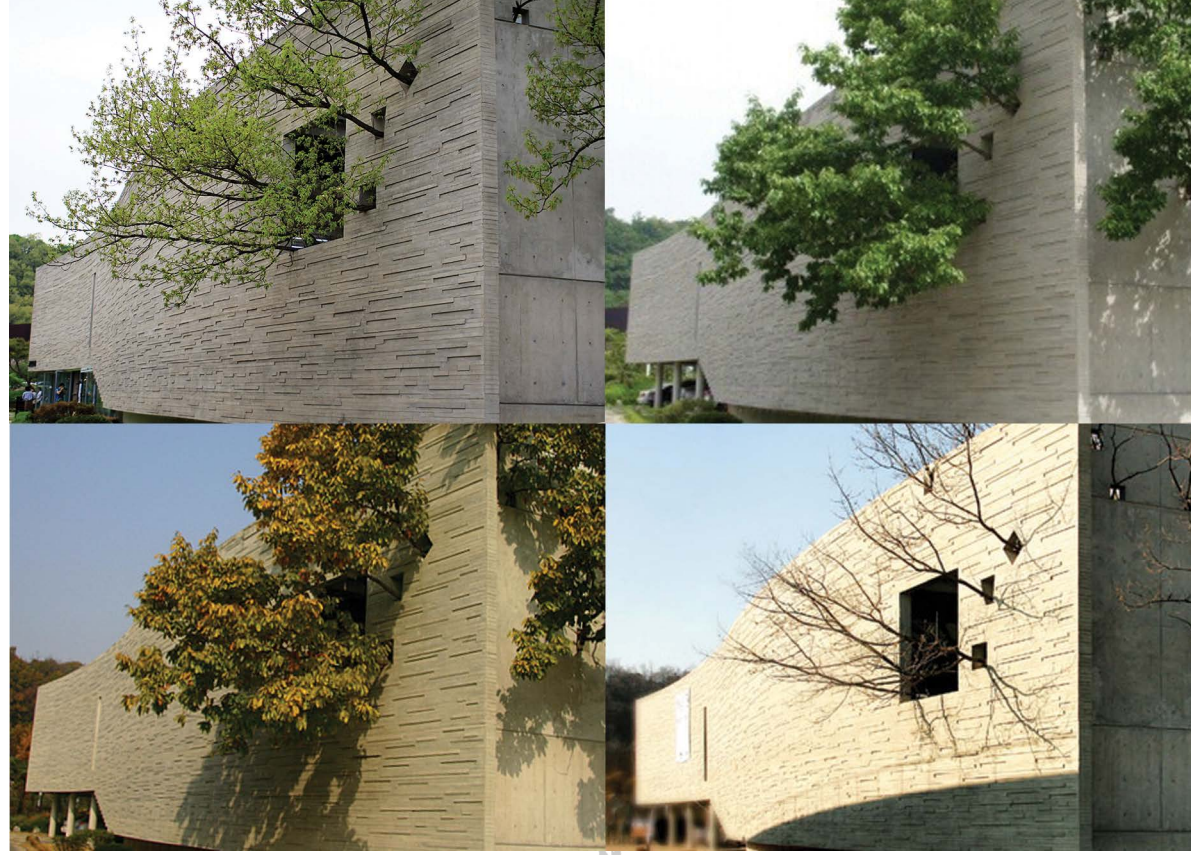


NEW IMPRESSION OF THE ENDWALL

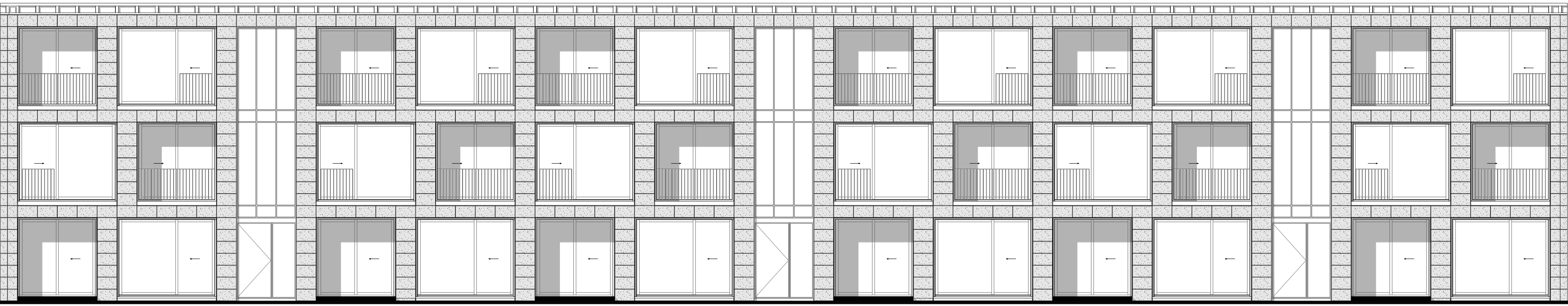


CURRENT ENDWALL

Architectural wall as a backdrop of the context



WEST ELEVATION - COMMUNITY SIDE



EAST ELEVATION - PARKING SIDE

AIR REFABRICATION

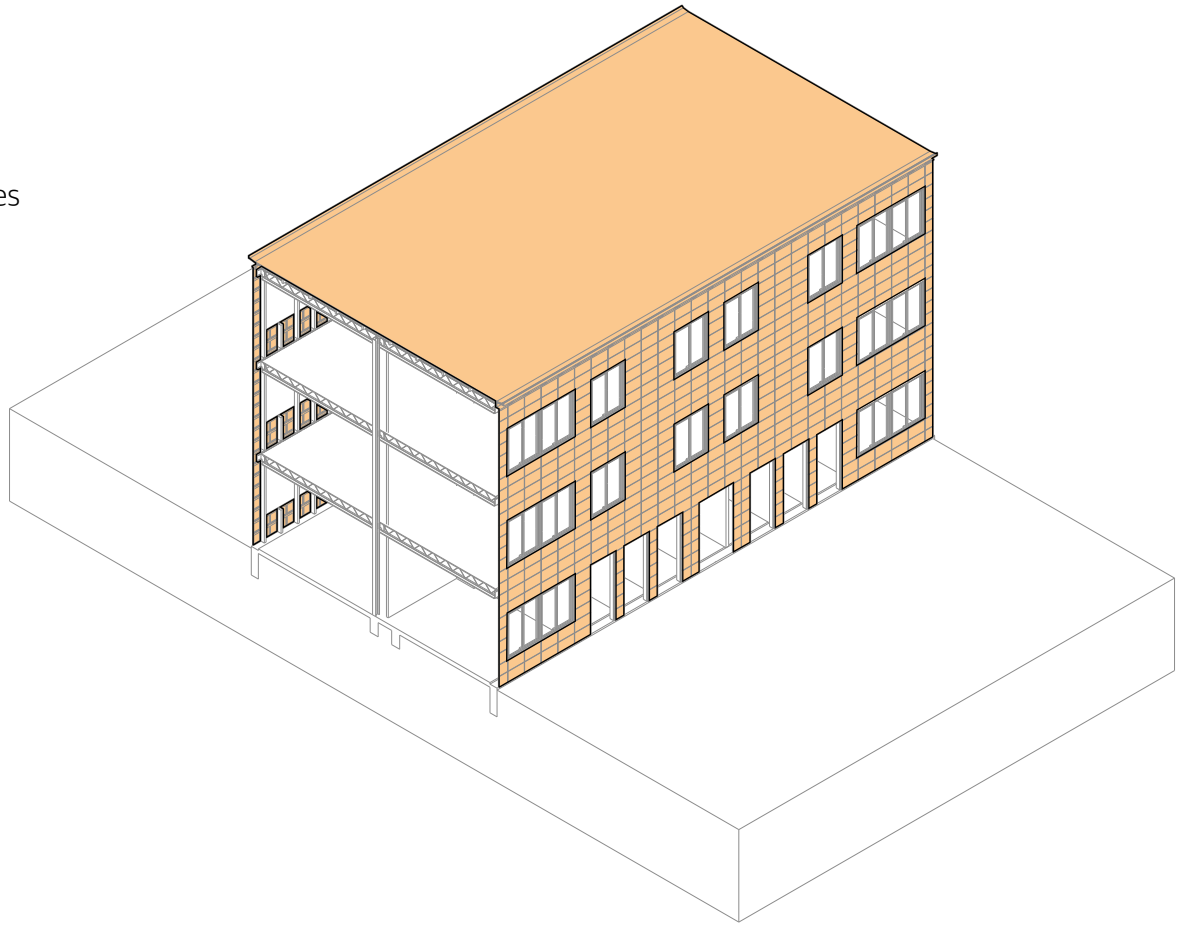
The refabrication of the Airey system for the second-generation to come, focusing on the design case 'Airey-strip blocks' in Amsterdam Nieuw-West.

III. EXTENSION WITH QUALITY OF LIVING

RENOVATION PROCESS

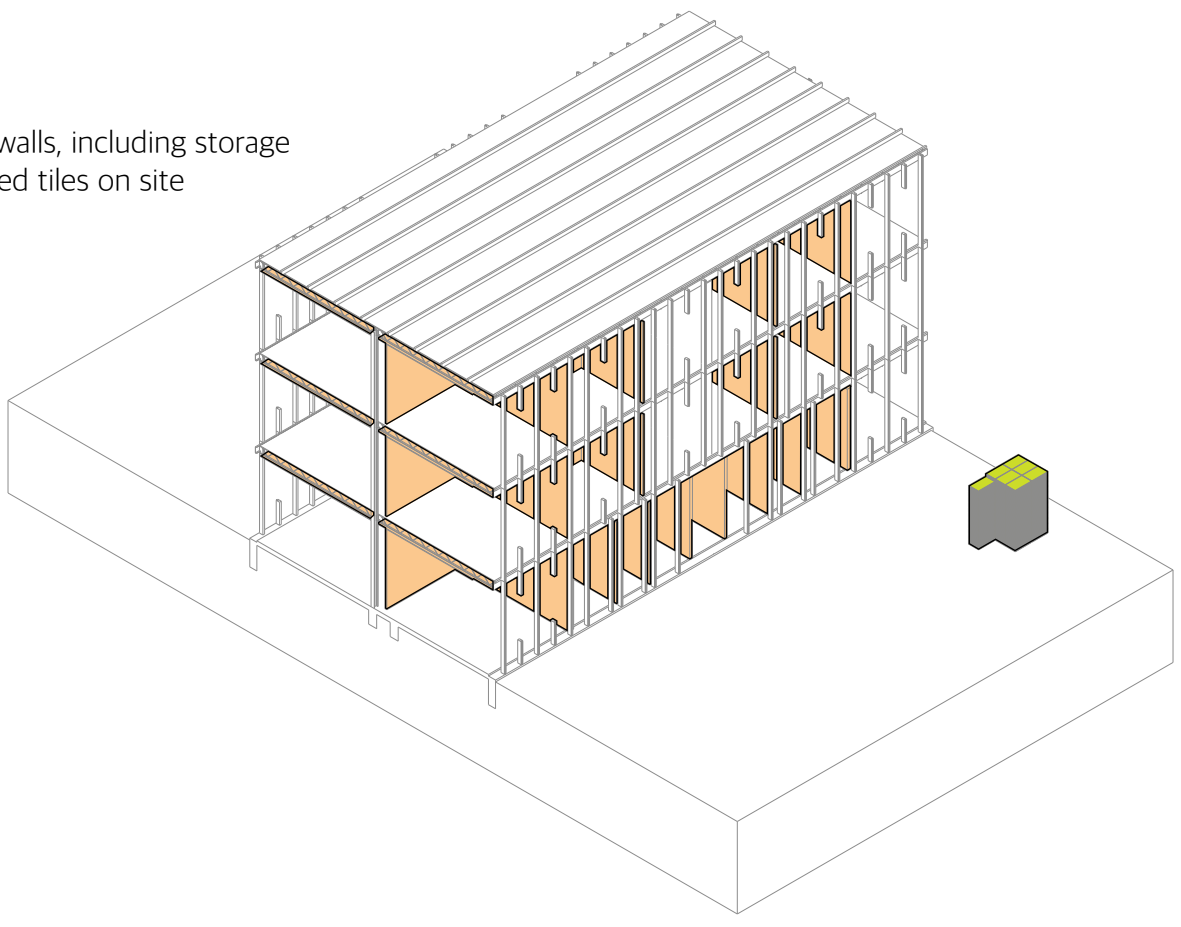
PHASE 01

Strip the old facade & Reprocess the old tiles



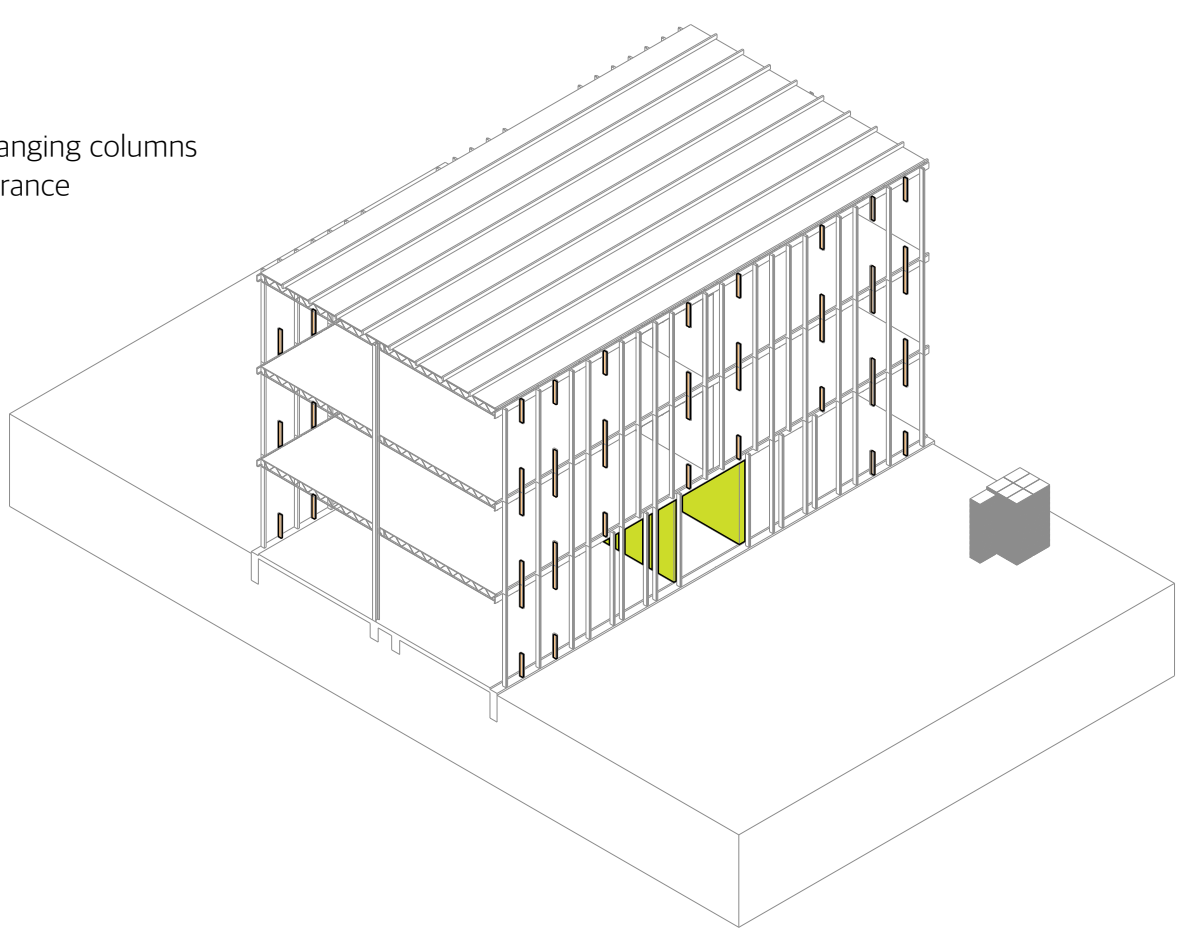
PHASE 02

Demolish the old innerwalls, including storage & collect the reprocessed tiles on site



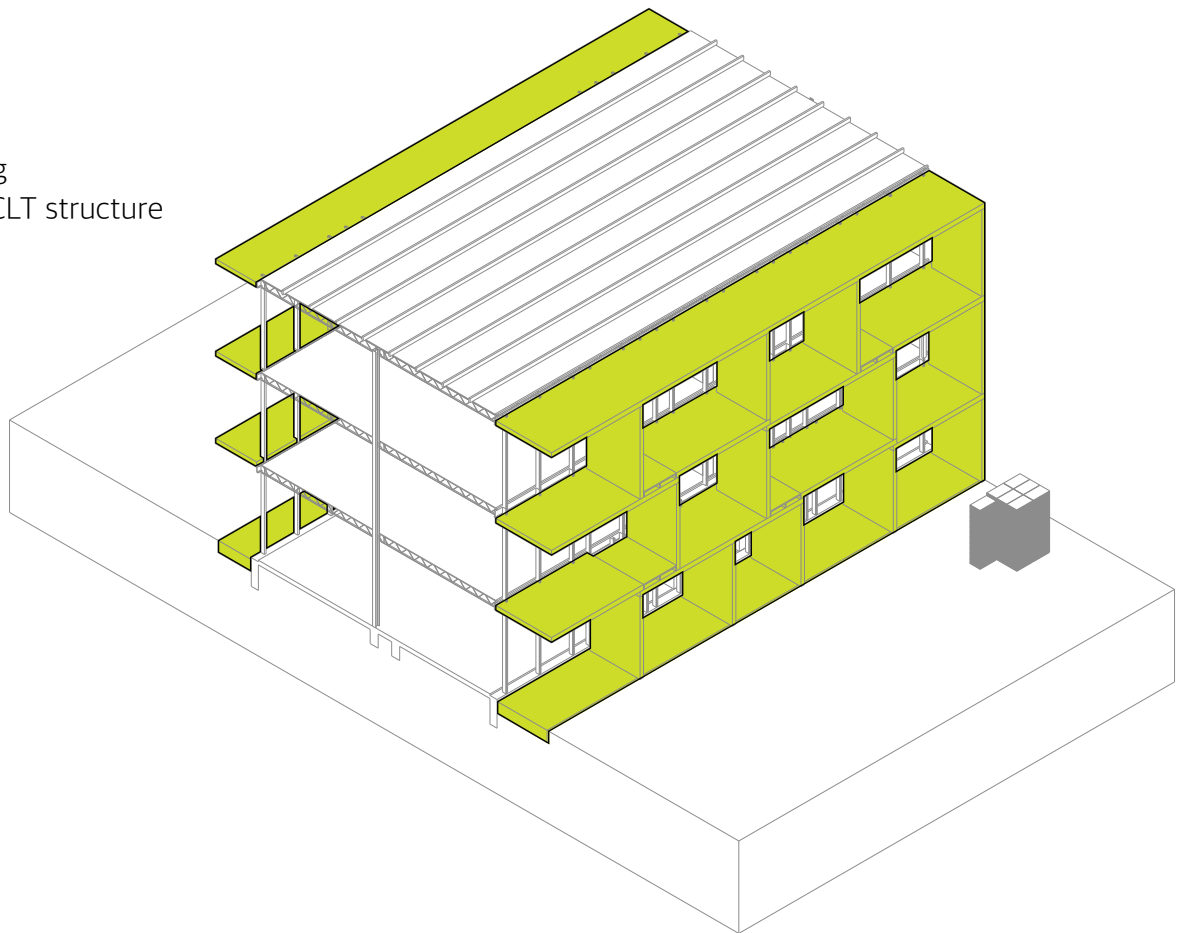
PHASE 03

Remove unstructural hanging columns & introduce wider entrance



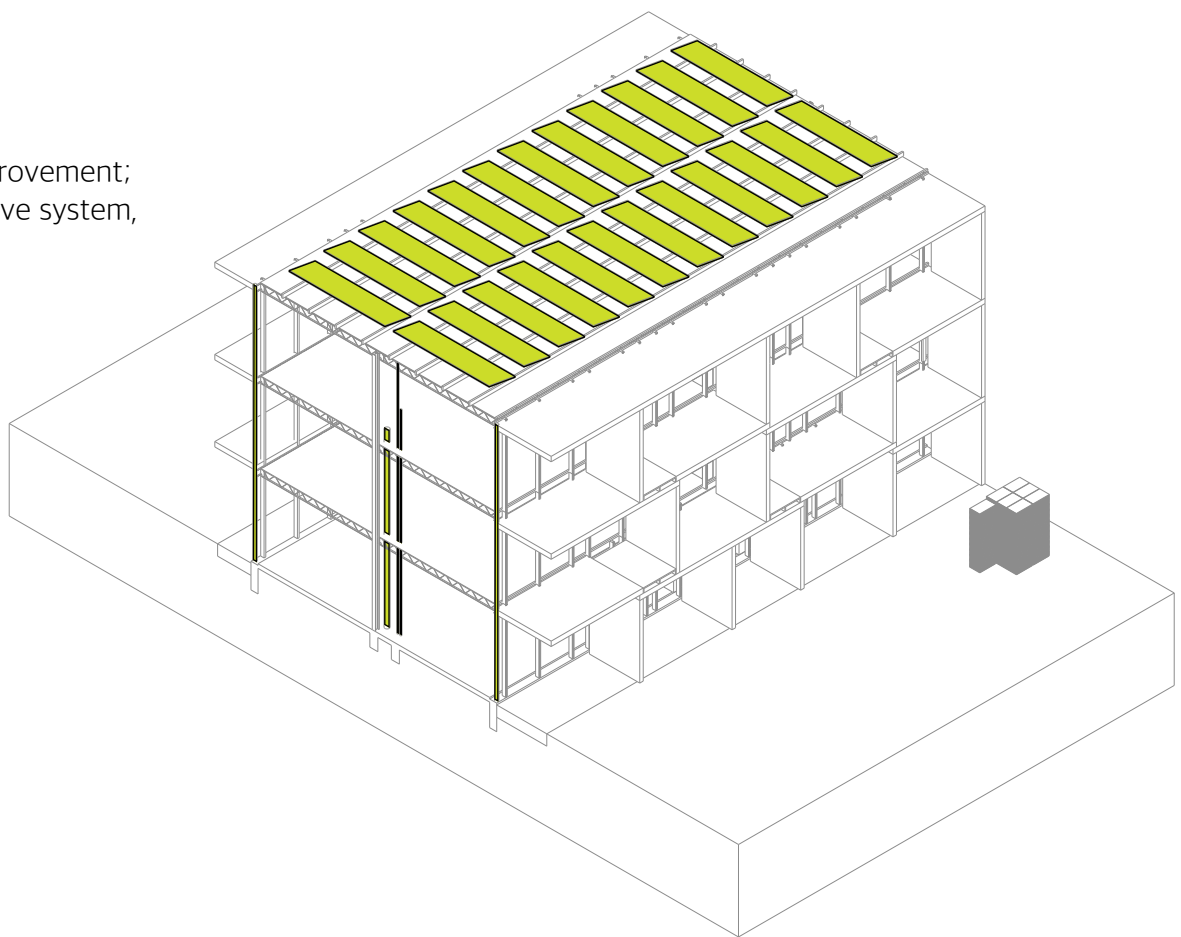
PHASE 04

Extend the living space on both side of building constructed with the CLT structure



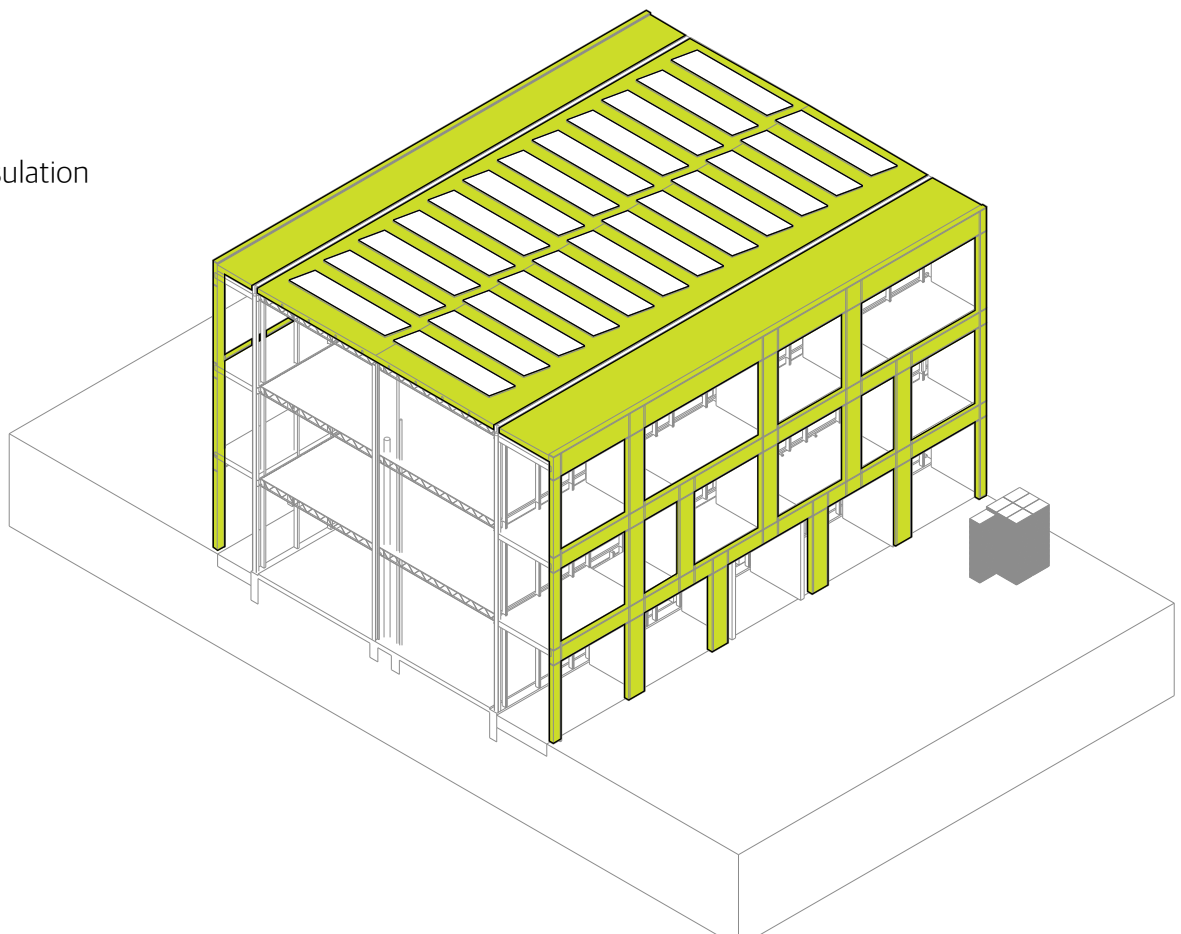
PHASE 05

New installations for the sustainable improvement: solar panel, rain collective system, and plumbing



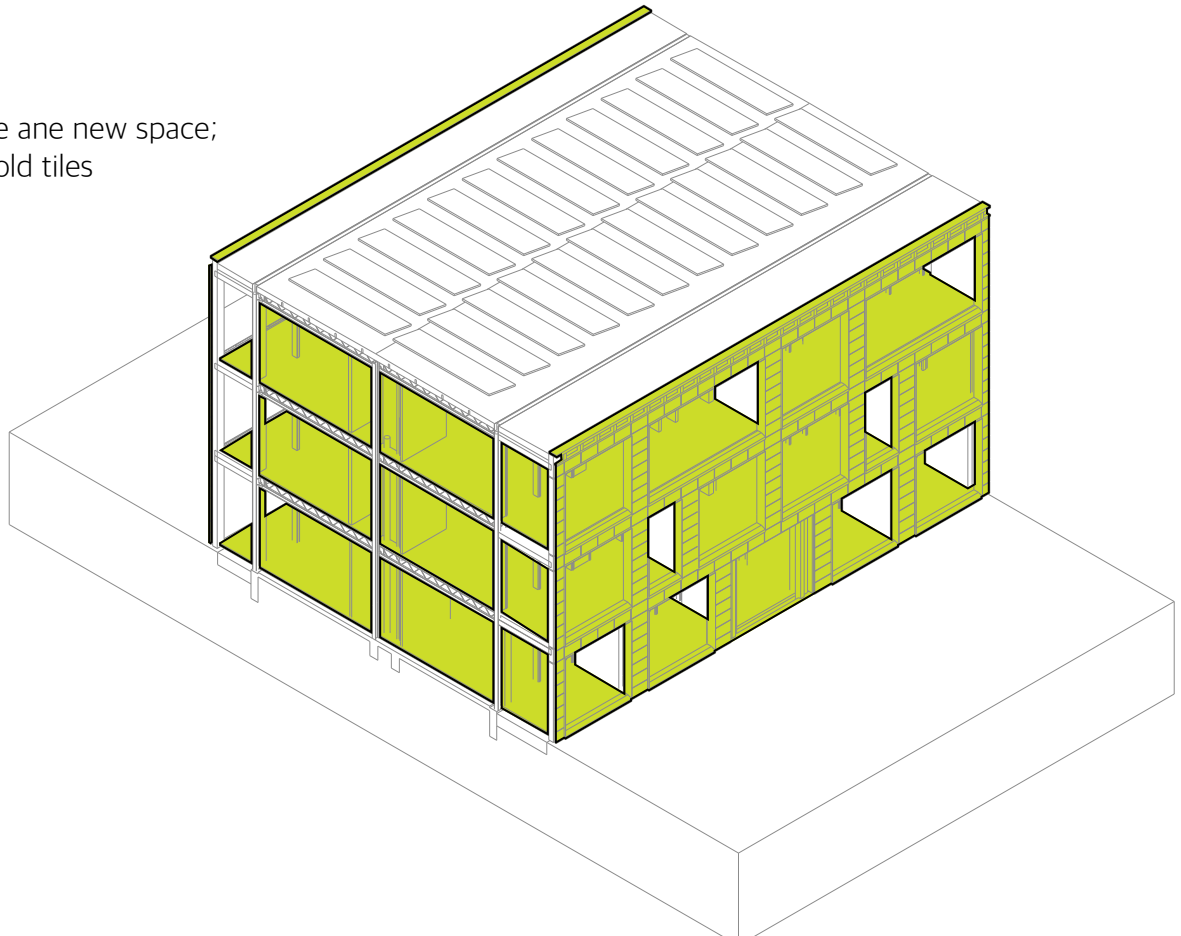
PHASE 06

New facade system: prefabricated wall & insulation



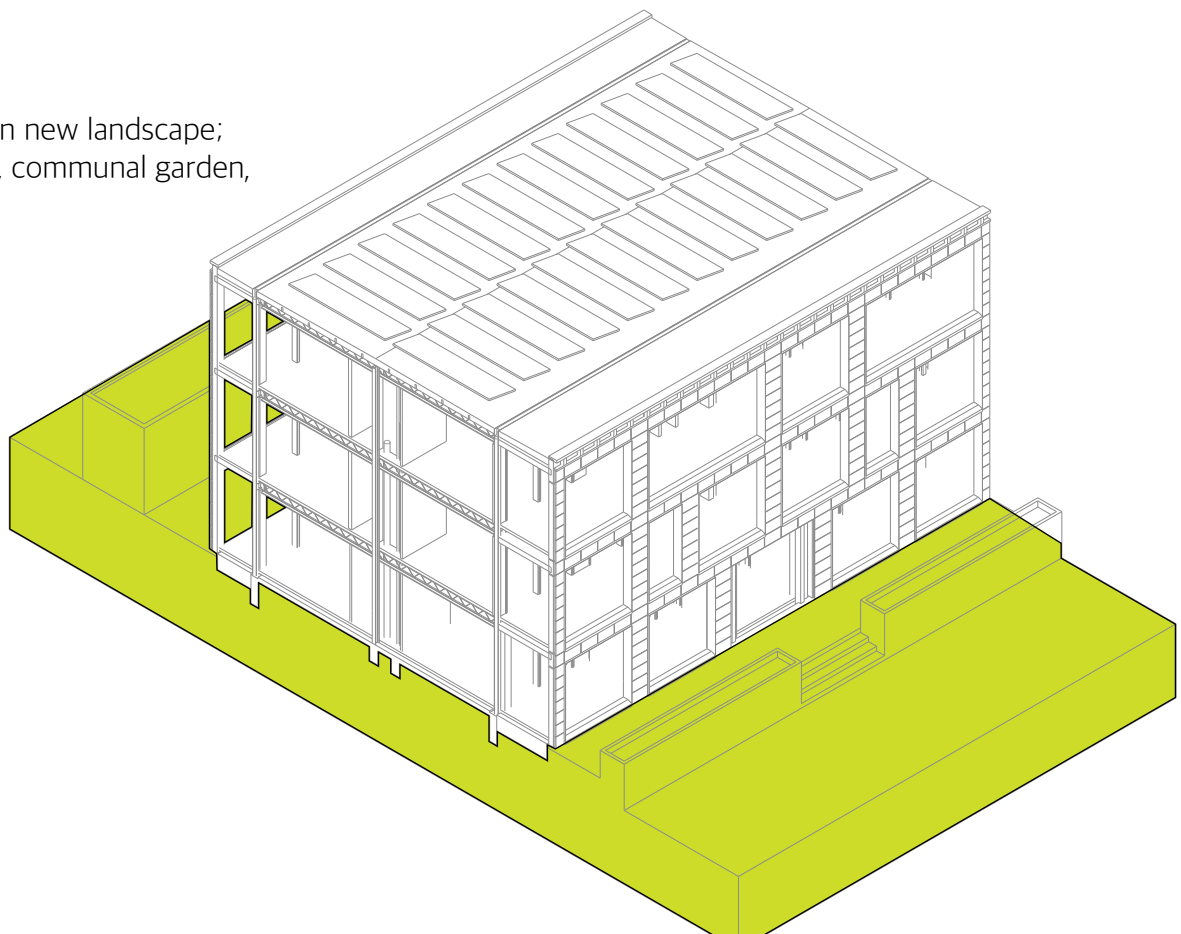
PHASE 07

Value integrated facade and new space: reinstall the reprocess old tiles & new floor system

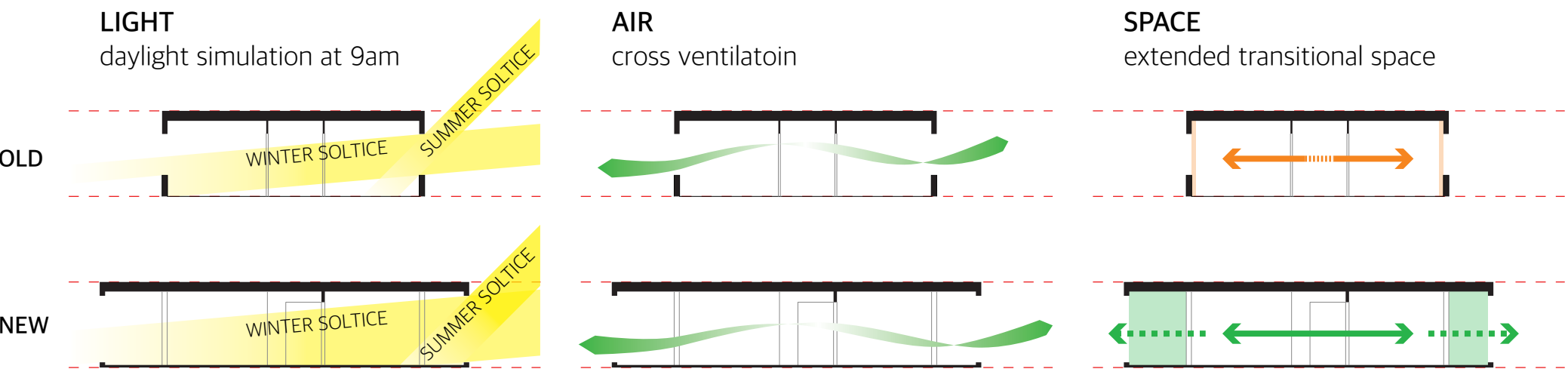


PHASE 08

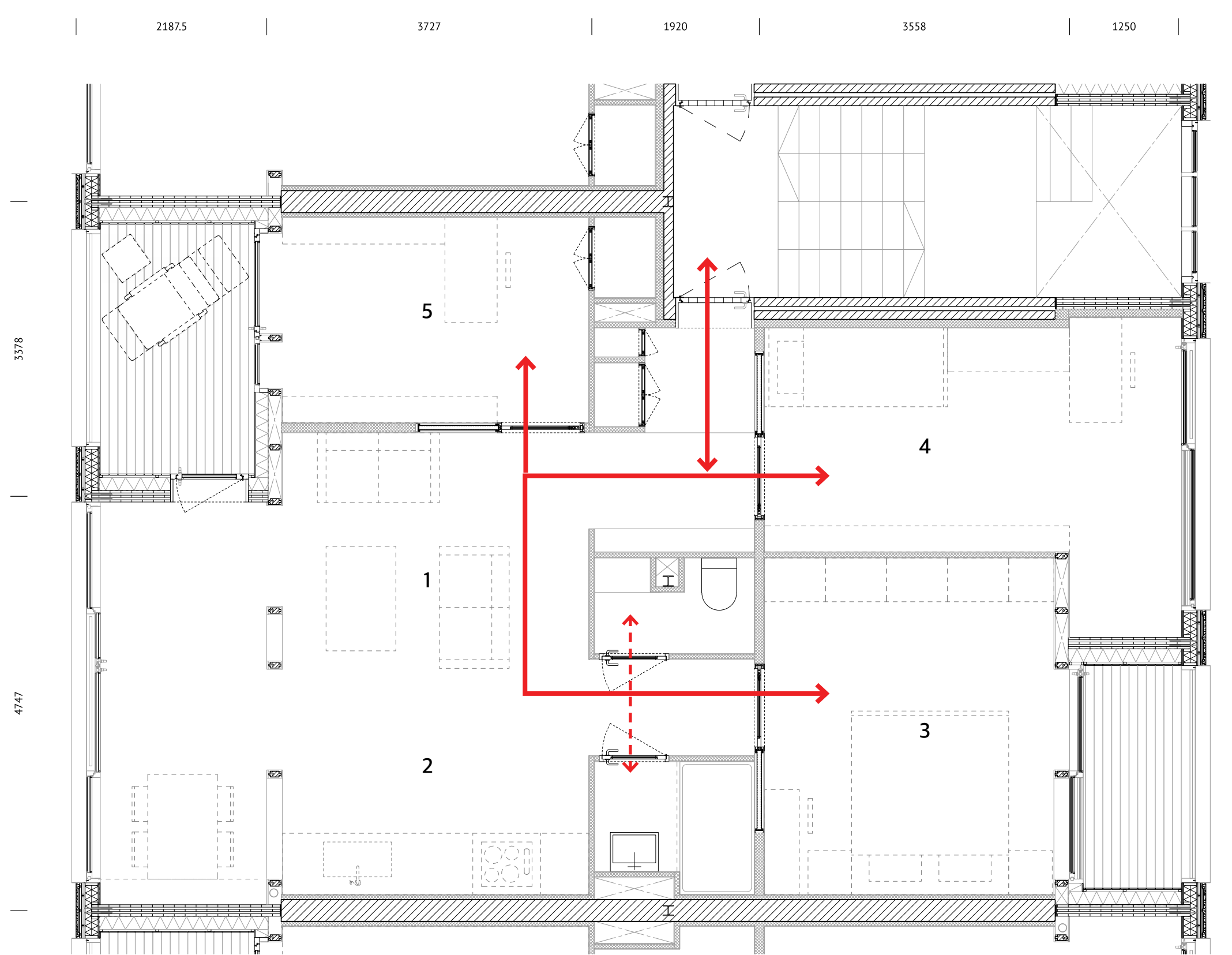
Private outdoor space in new landscape: storage, private garden, communal garden, and parking



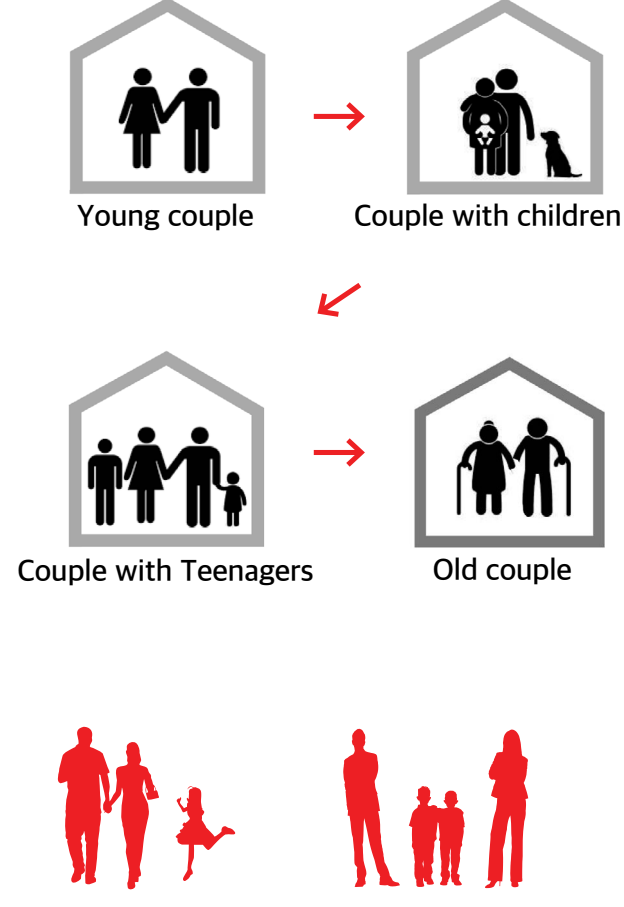
STRENGTHENED AUP IDEA



UNIT PLAN SCALE 1/50



TARGET GROUP



TYPE A

INDOOR 77.8m² (EXISTING 61m²)
OUTDOOR 7.9m² BALCONY
STORAGE 4.8m²
TARGET COUPLE WITH TEENAGER / PRIVATE
EXPECTED WWS 160-164
EXPECTED RENT €790-810

1. Living Room (13.5m²)
2. Kitchen (14.6m²)
3. Main Bedroom (13.2m²)
4. Second room (13.7m²)
5. Third room (8.7m²)

TYPE B

INDOOR 77.7m² (EXISTING 61m²)
OUTDOOR 8.0m² BALCONY
STORAGE 4.8m²
TARGET COUPLE WITH CHILDREN / PRIVATE
EXPECTED WWS 160
EXPECTED RENT €790-810

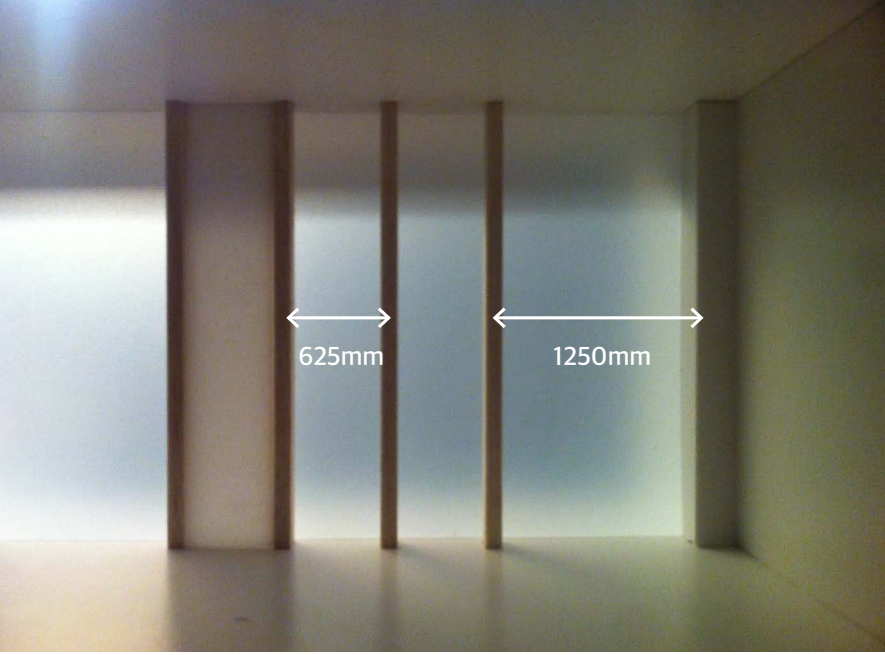
1. Living Room (25.2m²)
2. Kitchen (12m²)
3. Main Bedroom (18.1m²)
4. Second room (9m²)

TYPE C

INDOOR 76.4m² (EXISTING 41m²)
OUTDOOR 31.7m² DECK & GARDEN
STORAGE 4.8m²
TARGET YOUNG AND OLD COUPLE / PRIVATE
EXPECTED WWS 163-167
EXPECTED RENT €805-825

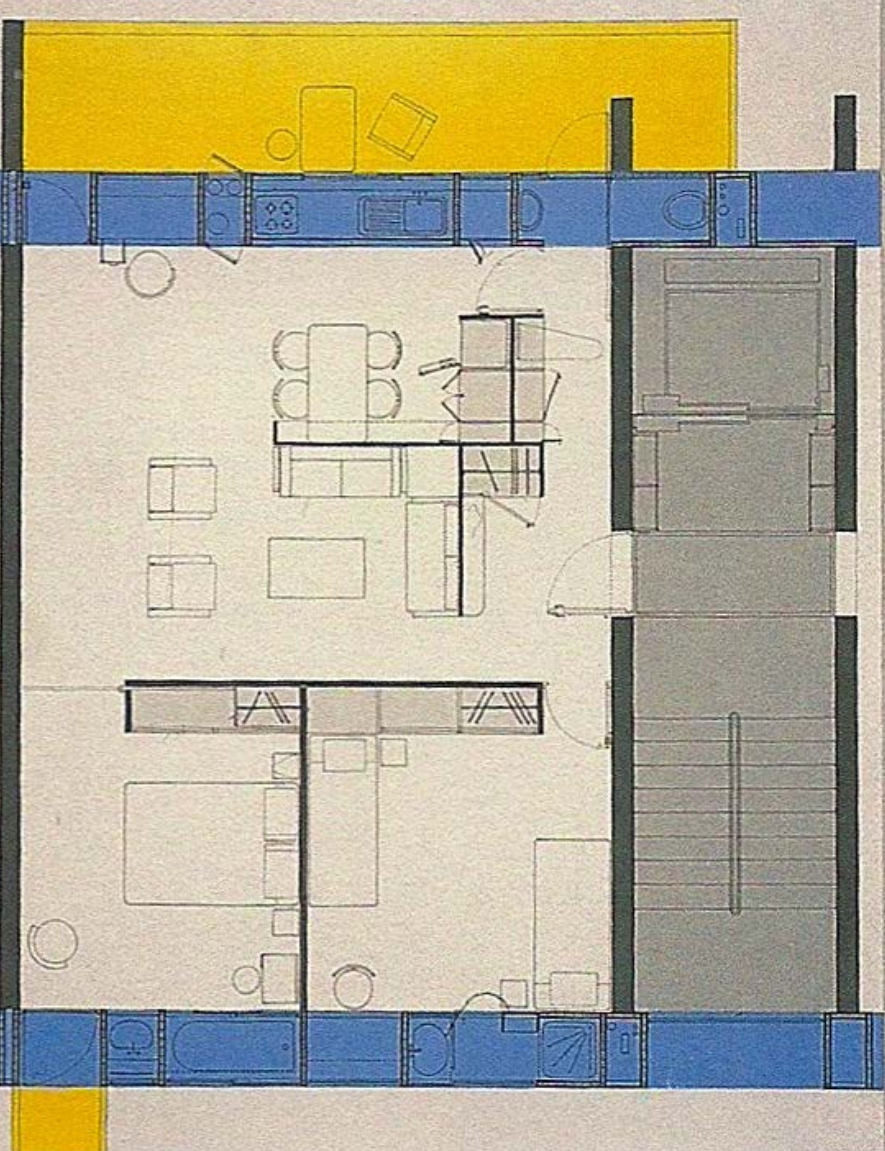
1. Living Room (16m²)
2. Kitchen (11.5m²)
3. Main Bedroom (20.1m²)
4. Second room (15.5m²)

SPATIAL INTERVENTION



SPATIAL POTENTIAL WITHOUT HANGING COLUMN

Old concrete column is switched its function to the new spatial medium for a unique experience.



REFERENCE; Domus Deinum, Yves Lion, 1984

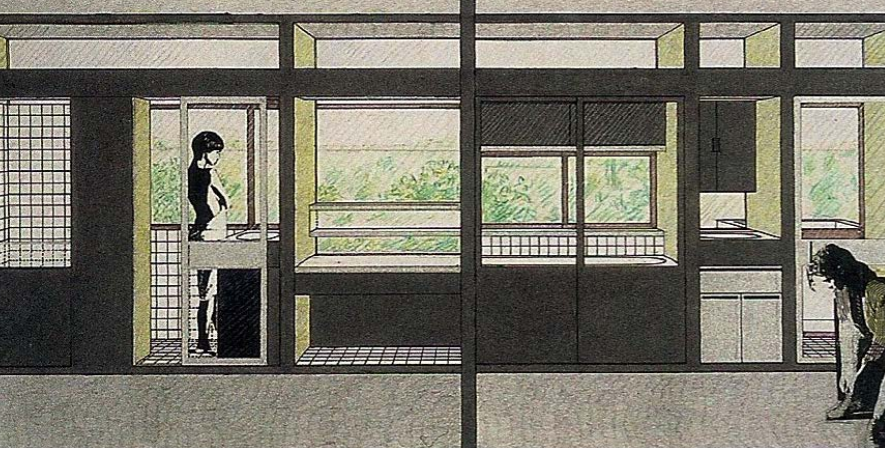
CONCEPT/ Active Layer: Light and service supplier

SPACE/
- Room for washing
- Island kitchen unit
- Toilet
- Service ducts

FUNCTION/
- Insulation
- Ventilation
- Daylight penetration
- Supply clean water
- Discharge dirty water

BENEFIT/
- Free plan beyond the facade

RE-INTERPRETATION; 'AIREFABRICATION'



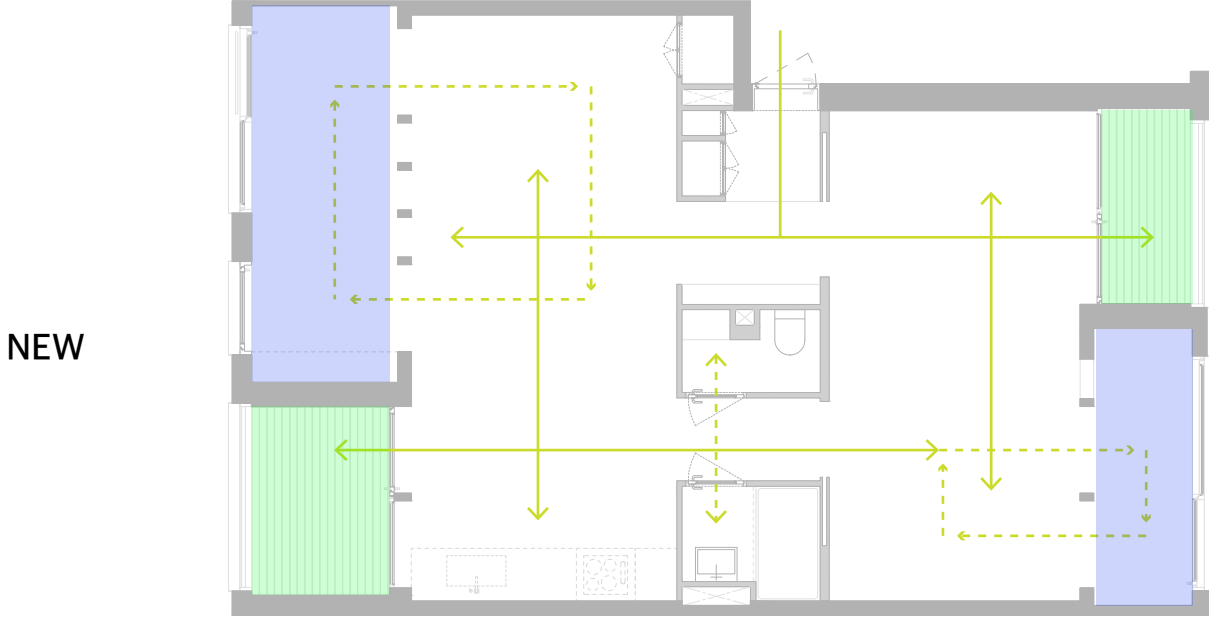
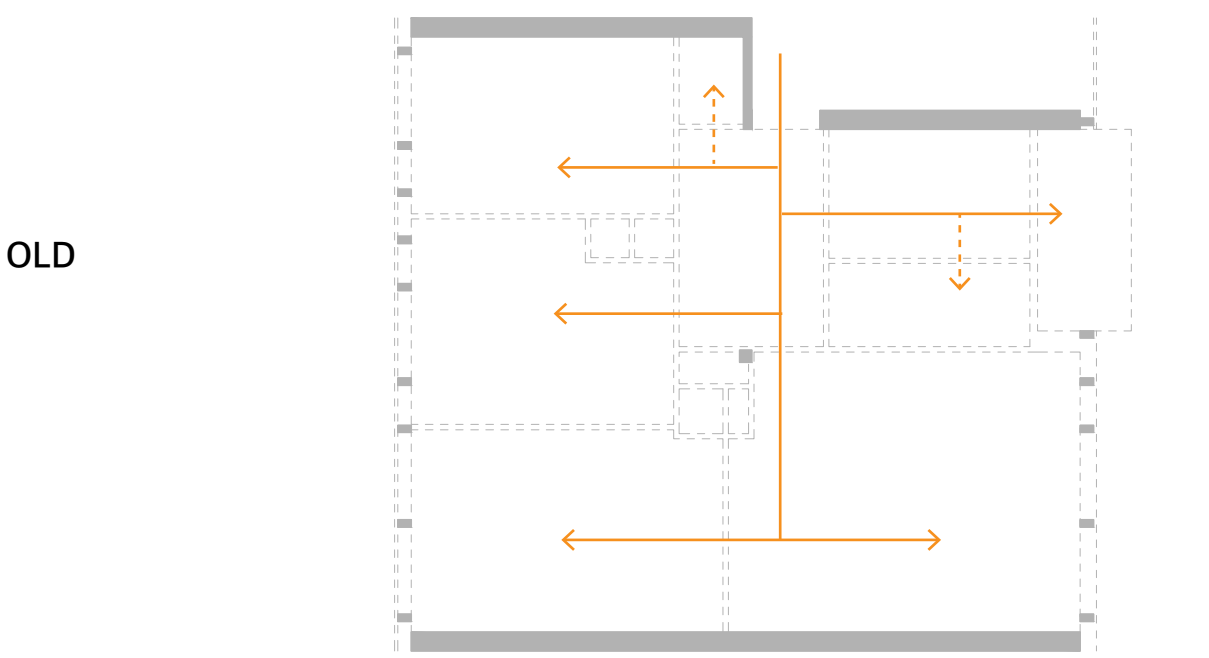
CONCEPT/ Bridging Layer: Spatial medium

SPACE/
- Balcony
- Extended living space
- Study
- Sunroom

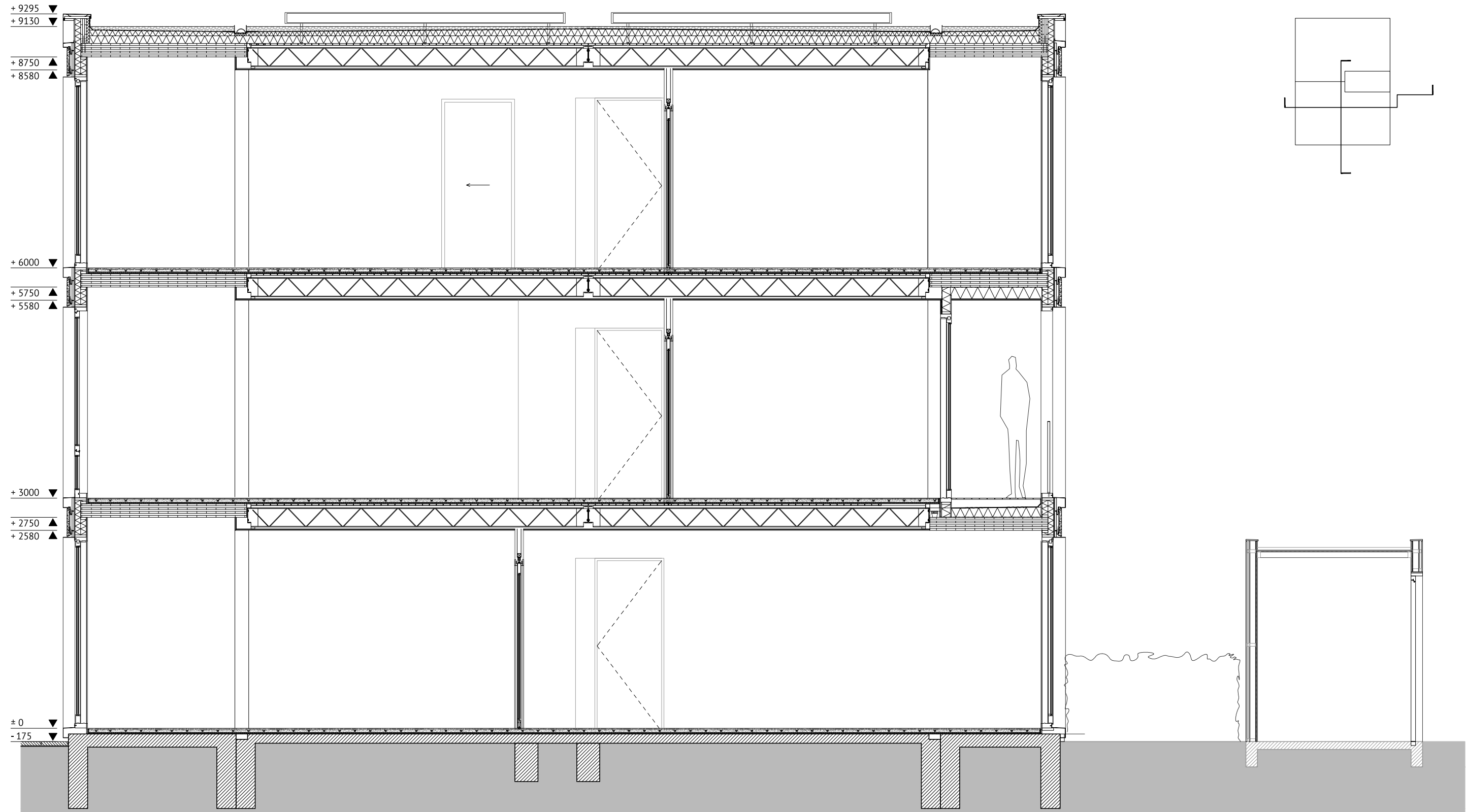
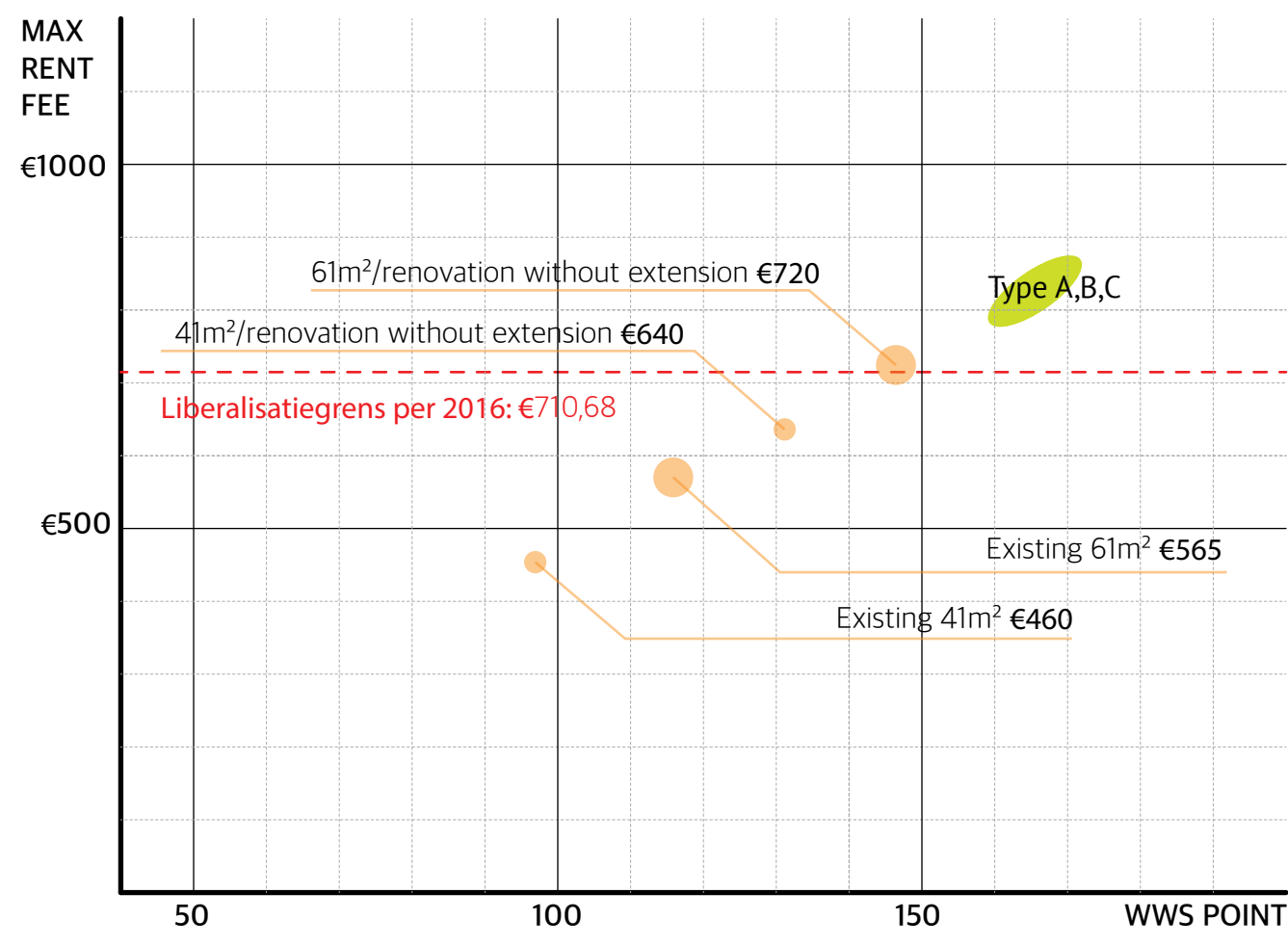
FUNCTION/
- Insulation
- Ventilation
- Daylight penetration

BENEFIT/
- Framing for scenery

MAXIMIZED 'FREE PLAN' CONCEPT

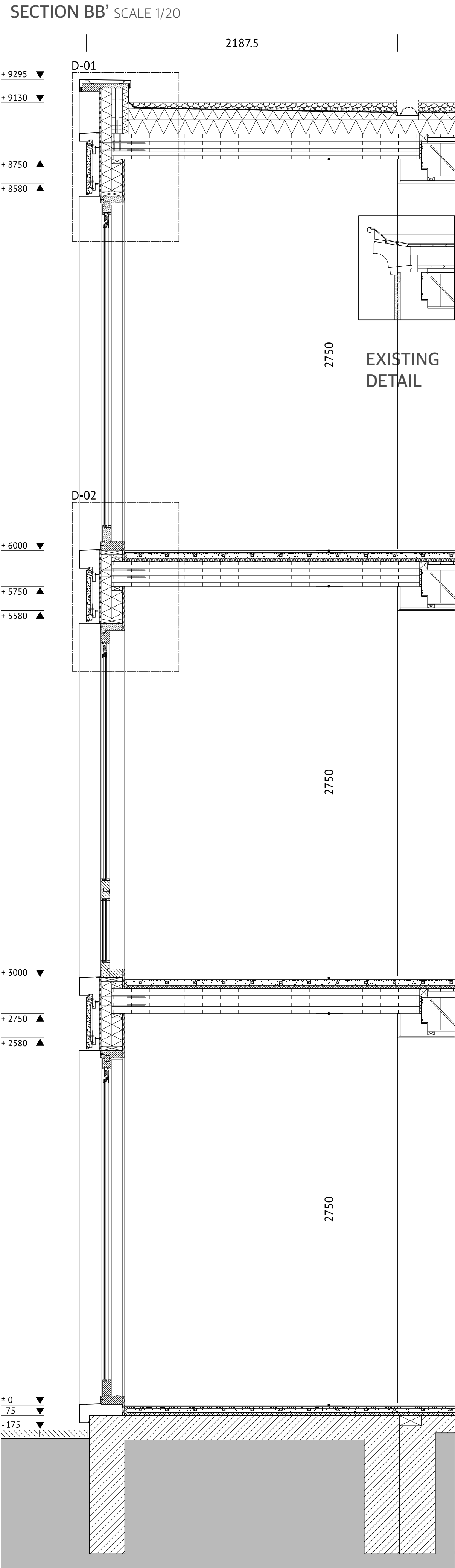
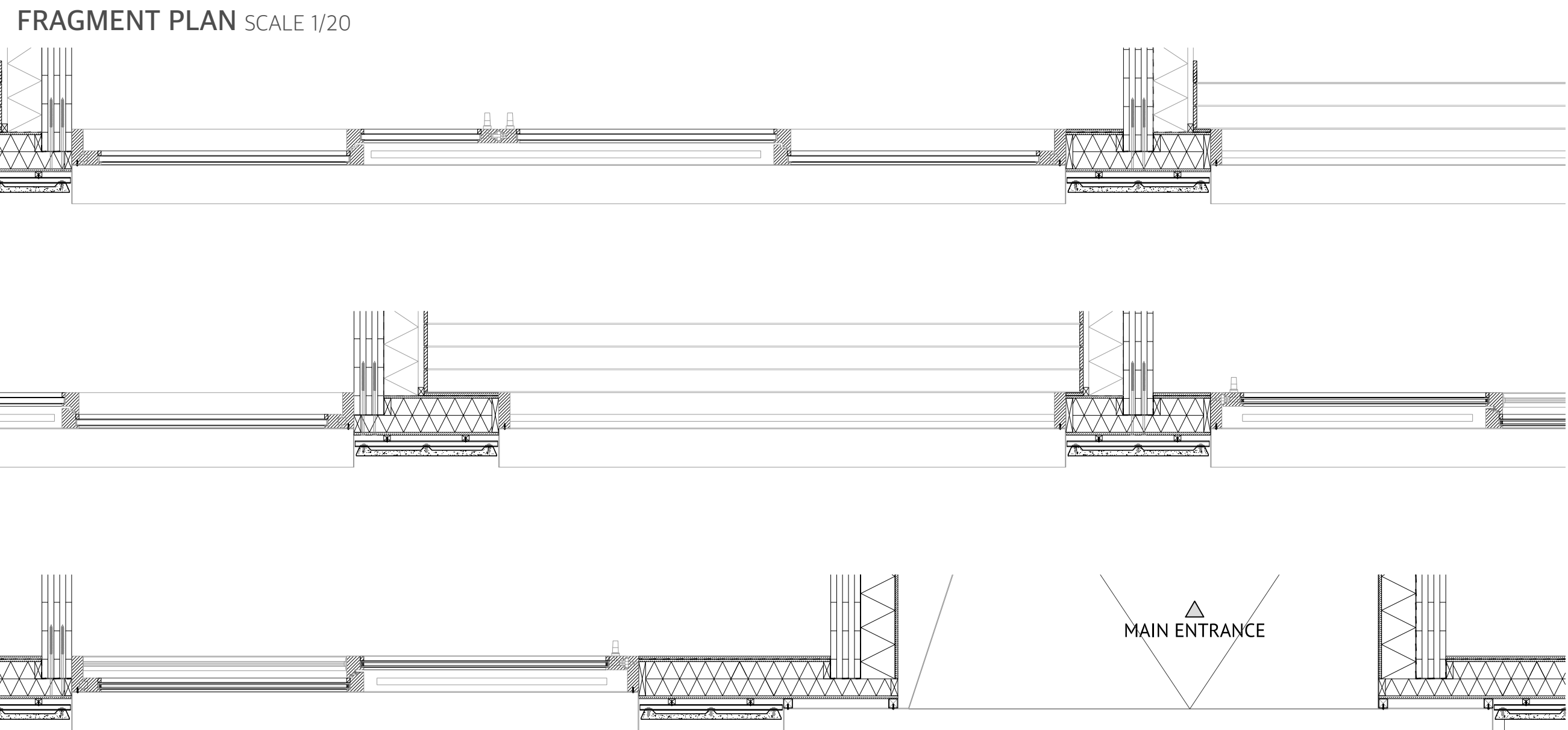


WWS ANALYSIS



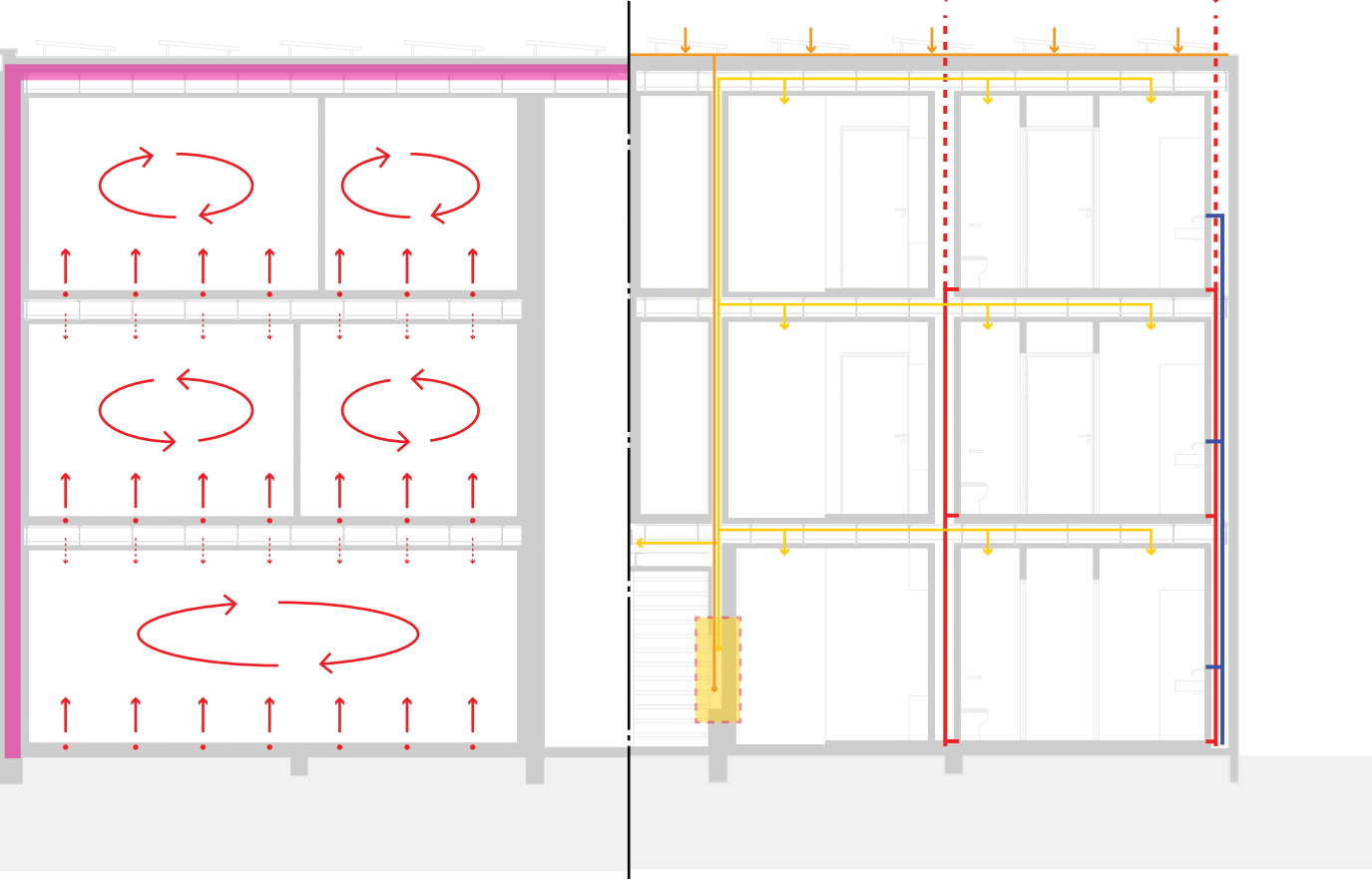
AIR E FABRICATION

The refabrication of the Airey system for the second-generation to come, focusing on the design case 'Airey-strip blocks' in Amsterdam Nieuw-West.



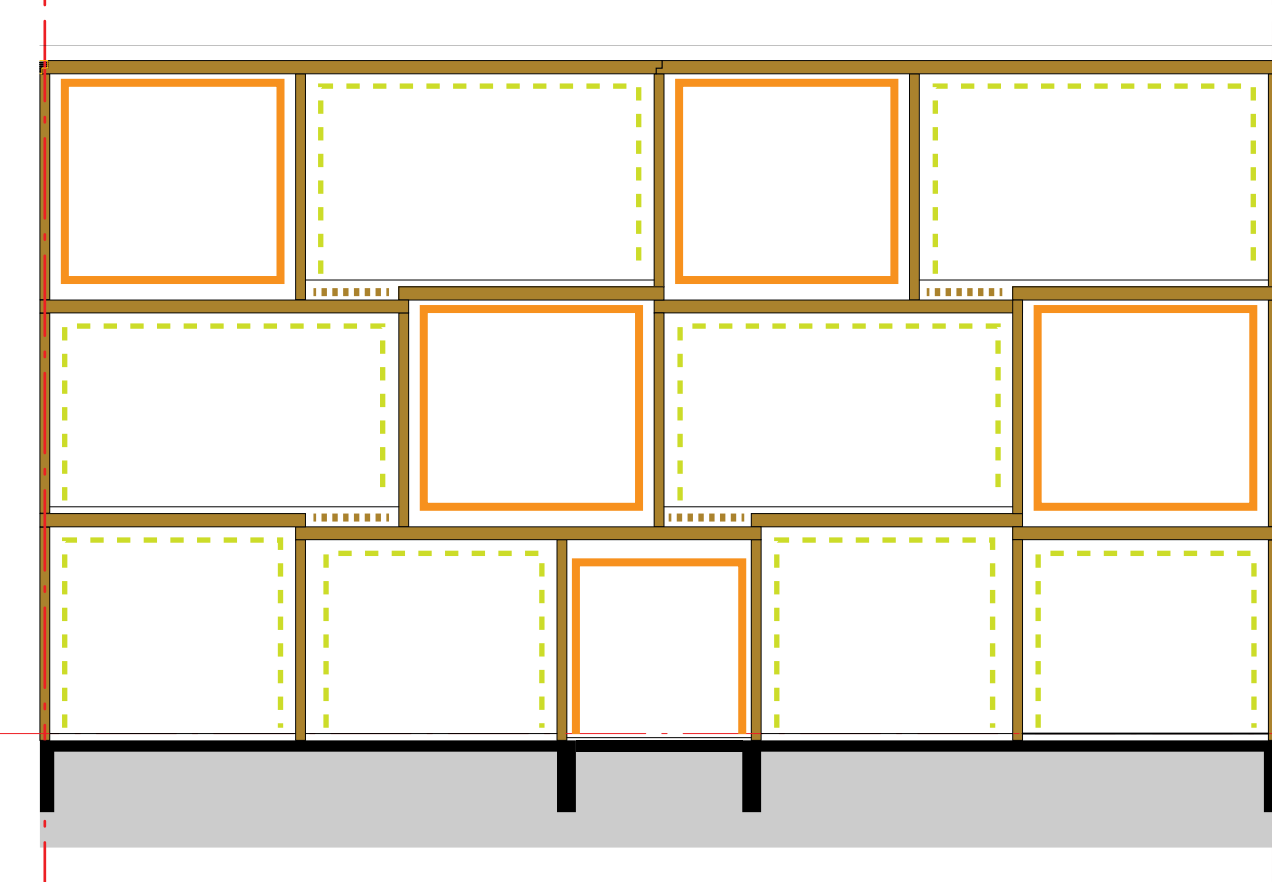
INSTALLATION SCHEME _ SOLAR SYSTEM + WATER & SEWAGE

- FLOOR HEATING & COOLING SYSTEM
- WASTE WATER
- AC ELECTRICITY
- DC ELECTRICITY
- SOLAR ENERGY INVERTER & CONTROL BOX
- CLEAN WATER

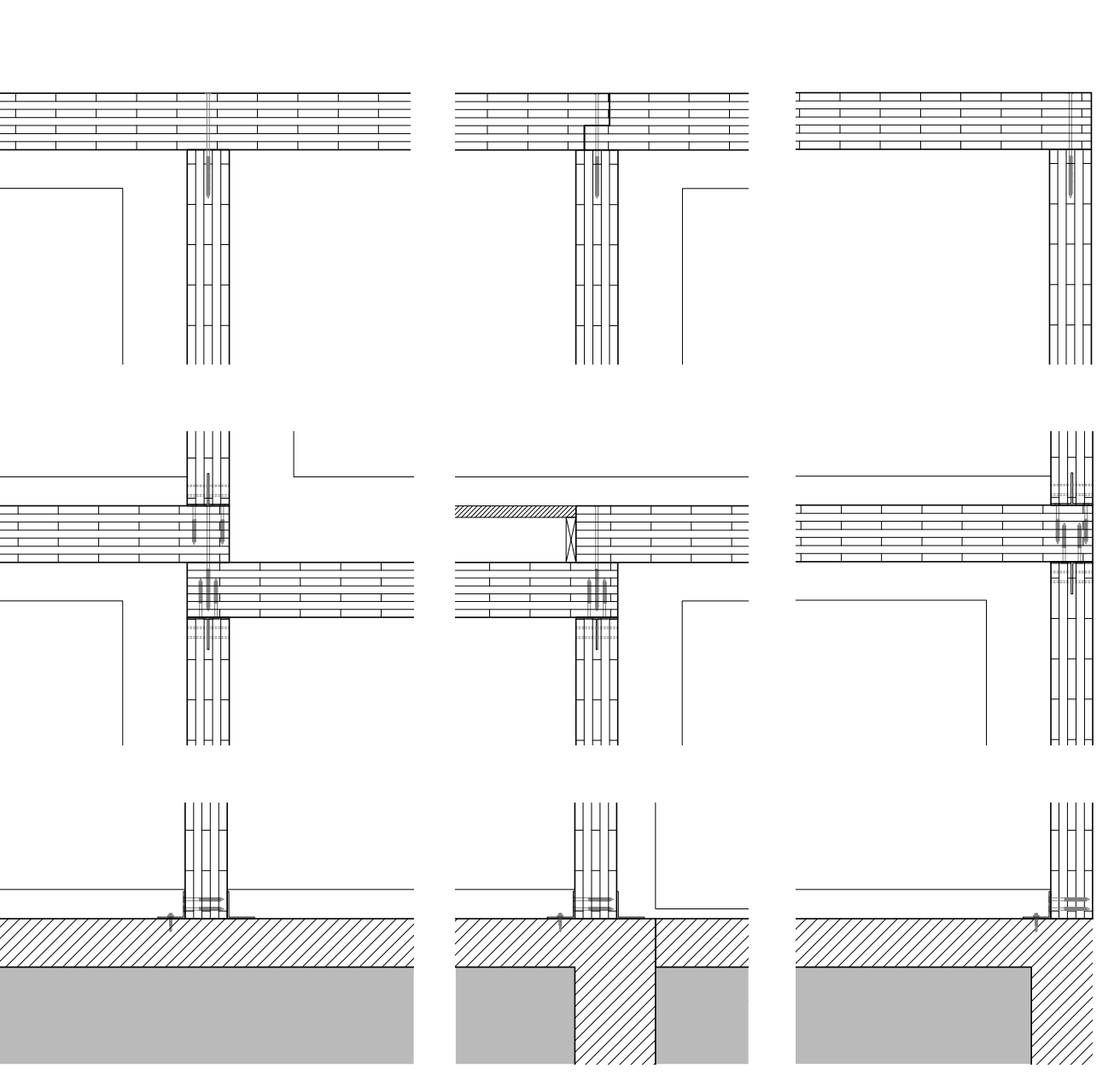


STRUCTURAL EXTENSION PRINCIPLE

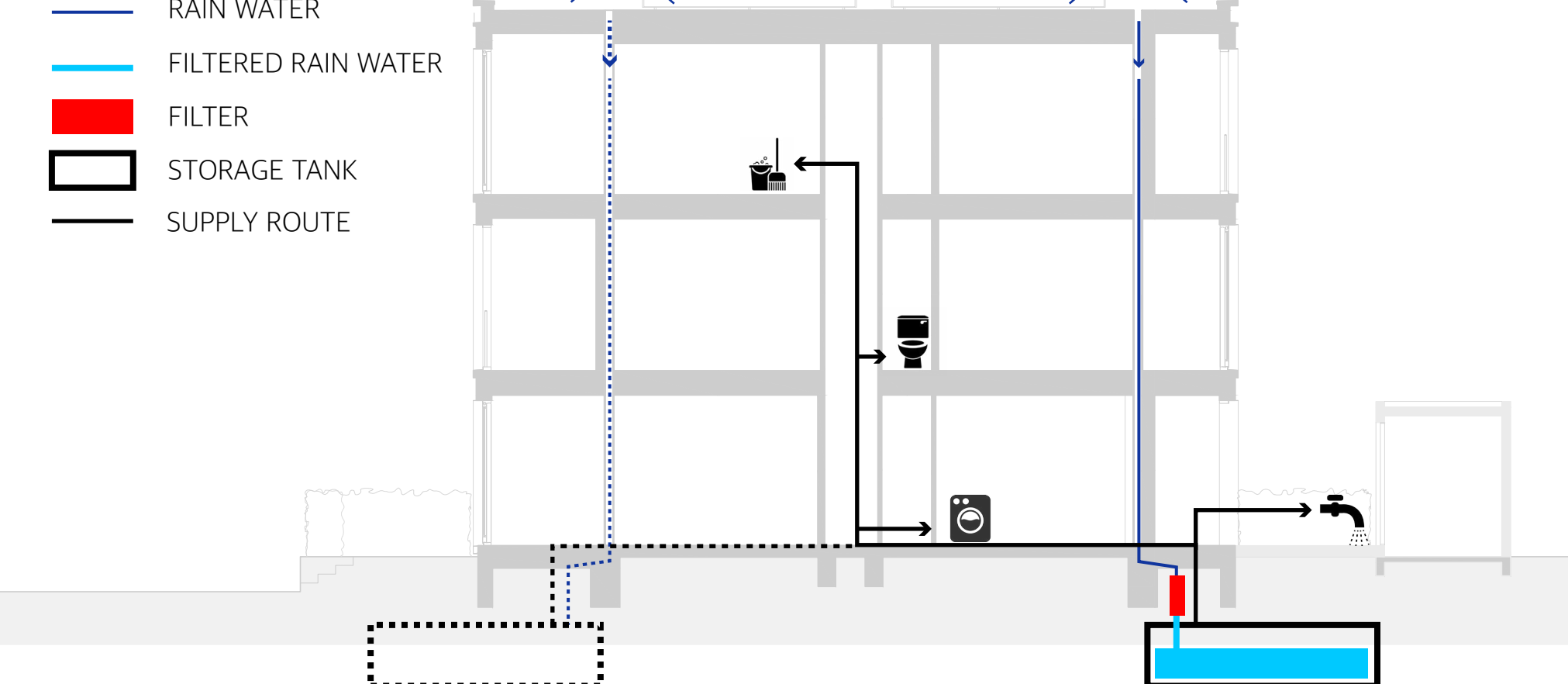
- PREFAB CONCRETE FOUNDATION
- CLT STRUCTURE
- RAISED FLOR TO ACHIEVE FLUSH FLOOR
- EXPOSED CLT _ WITHOUT FINISHING (INDOOR)
- INSULATED OUTDOOR WITH FINISHING (OUTDOOR)



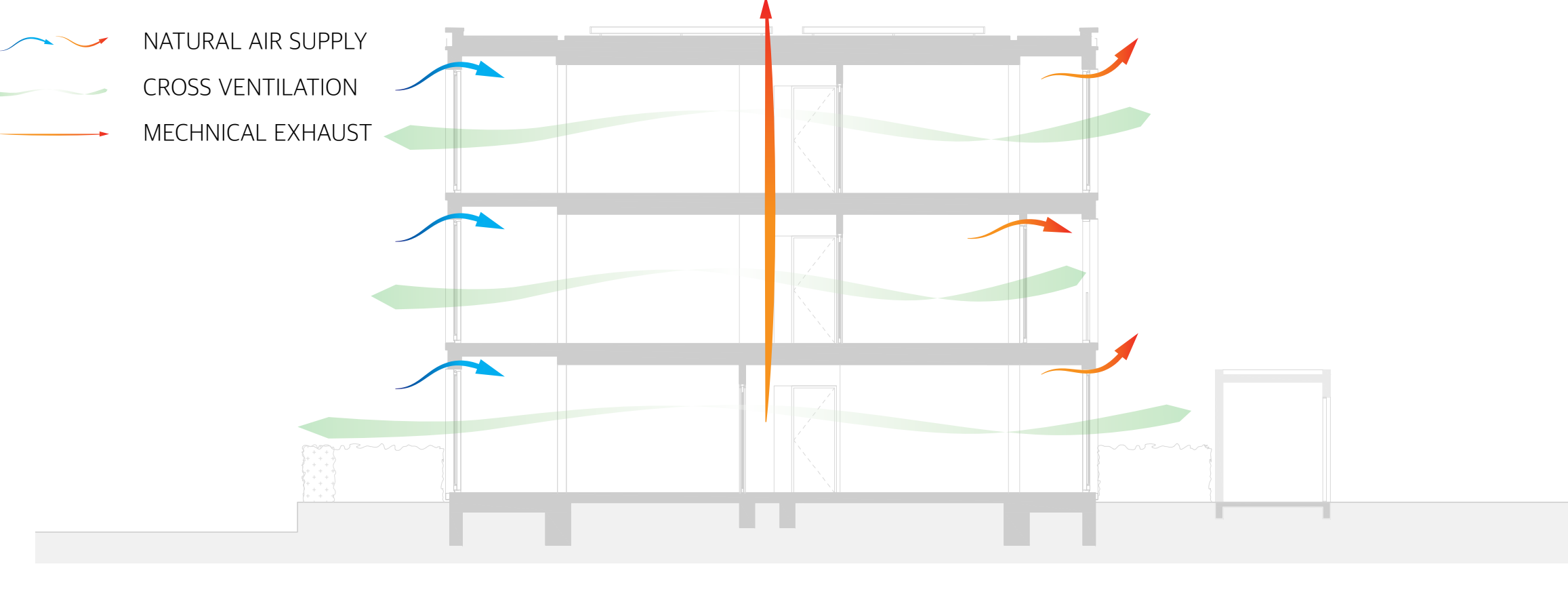
CLT JOINTS SCALE 1/20



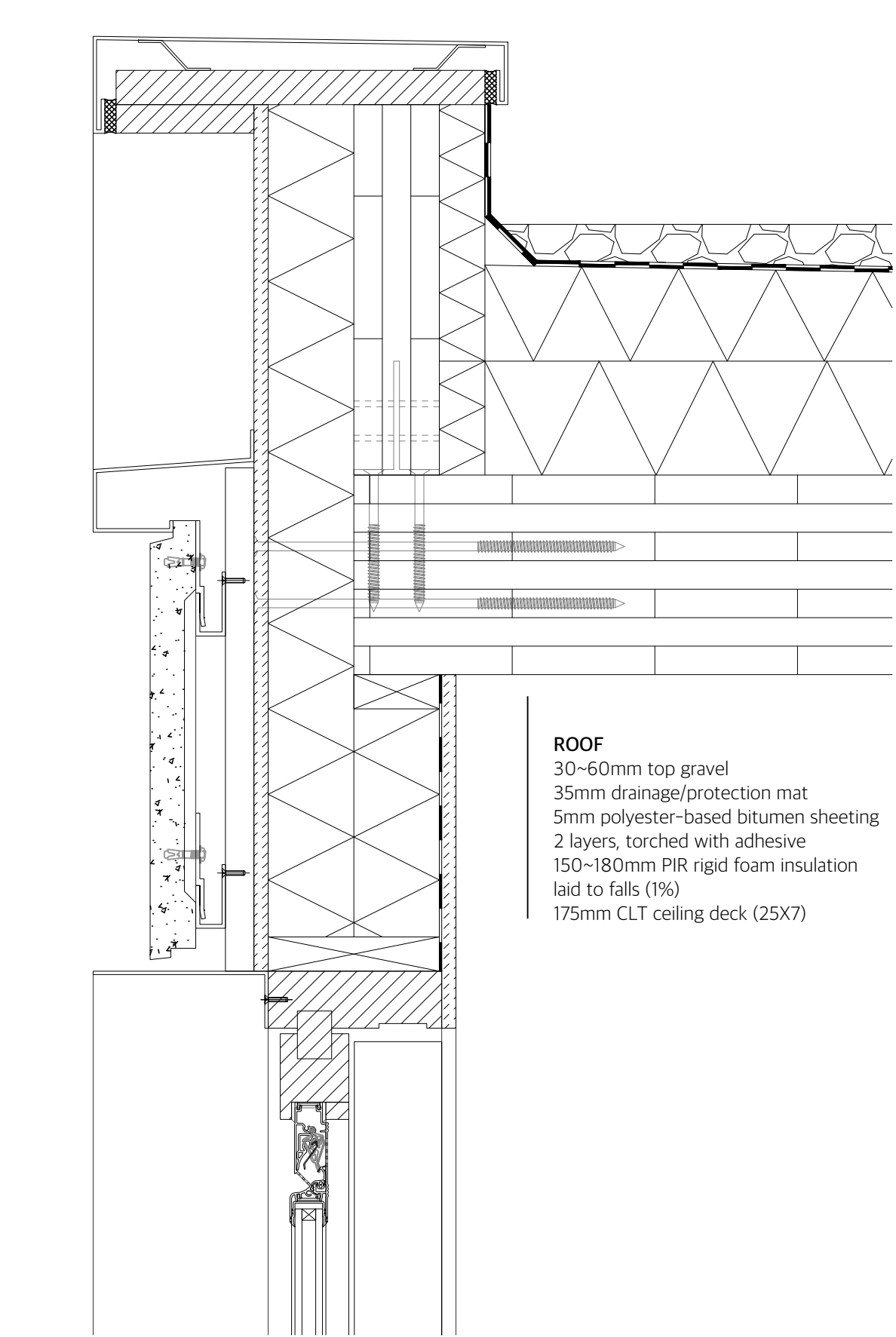
RAINWATER HARVESTING SYSTEM



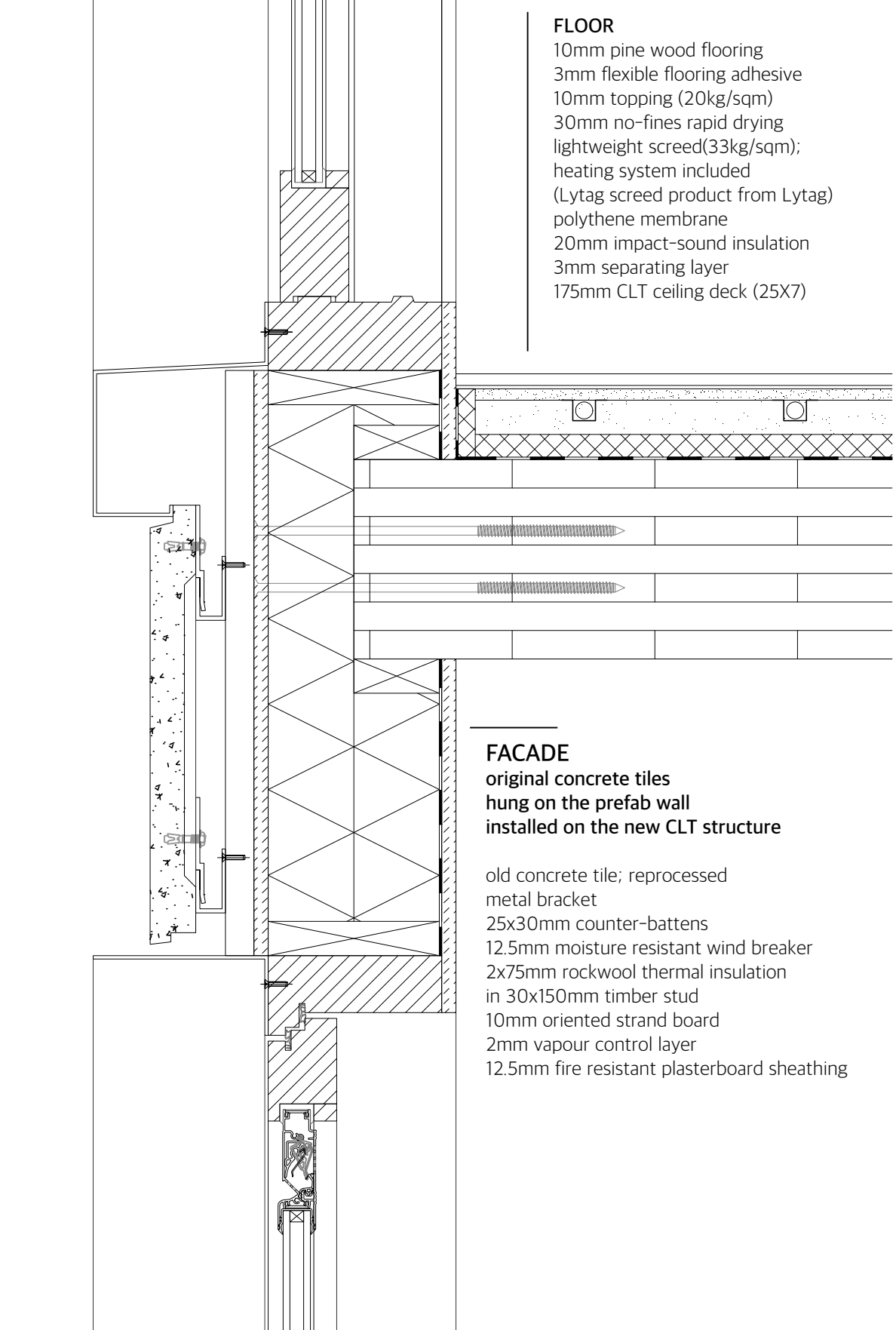
VENTILATION SCHEME



DETAIL 01 SCALE 1/5



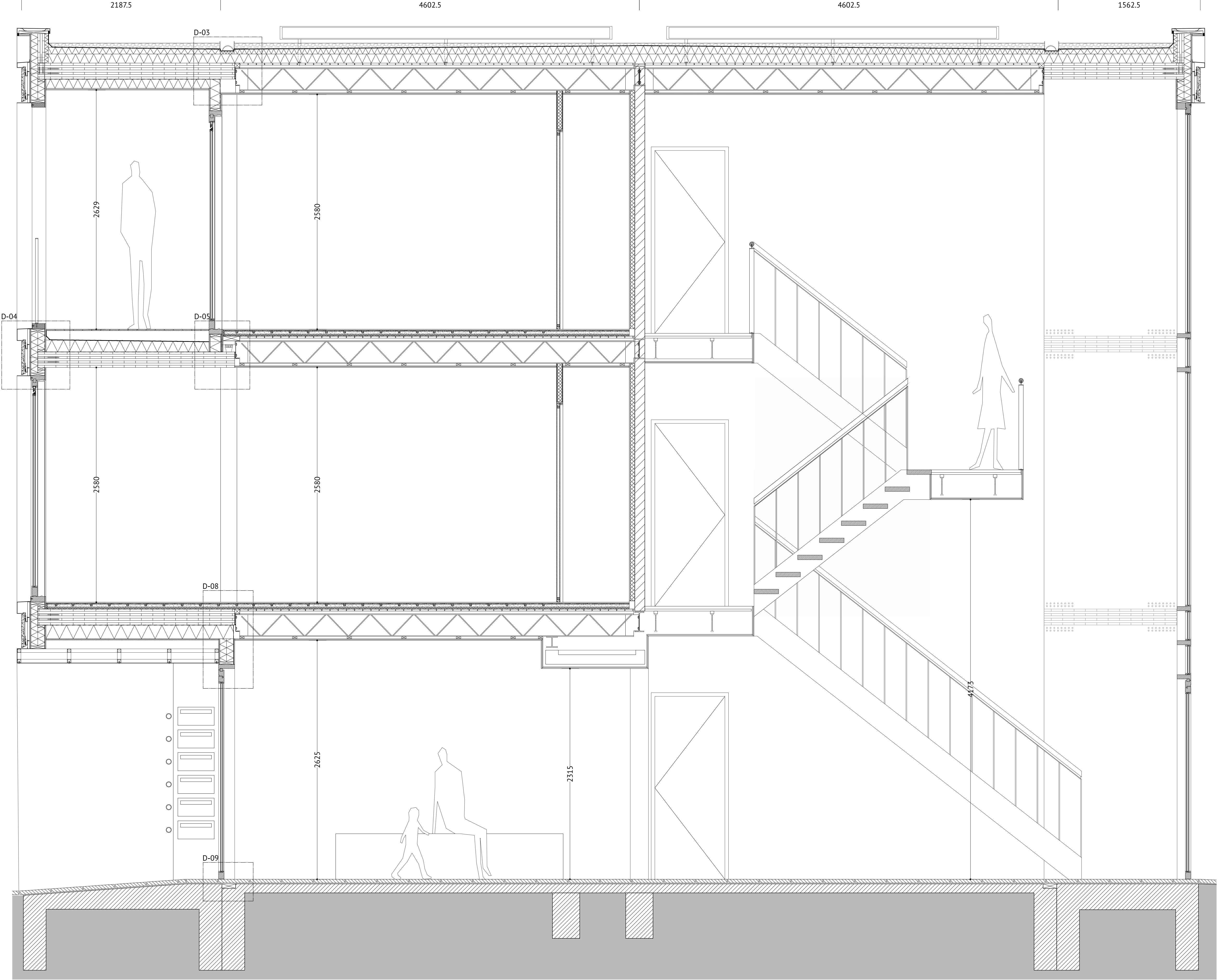
DETAIL 02 SCALE 1/5



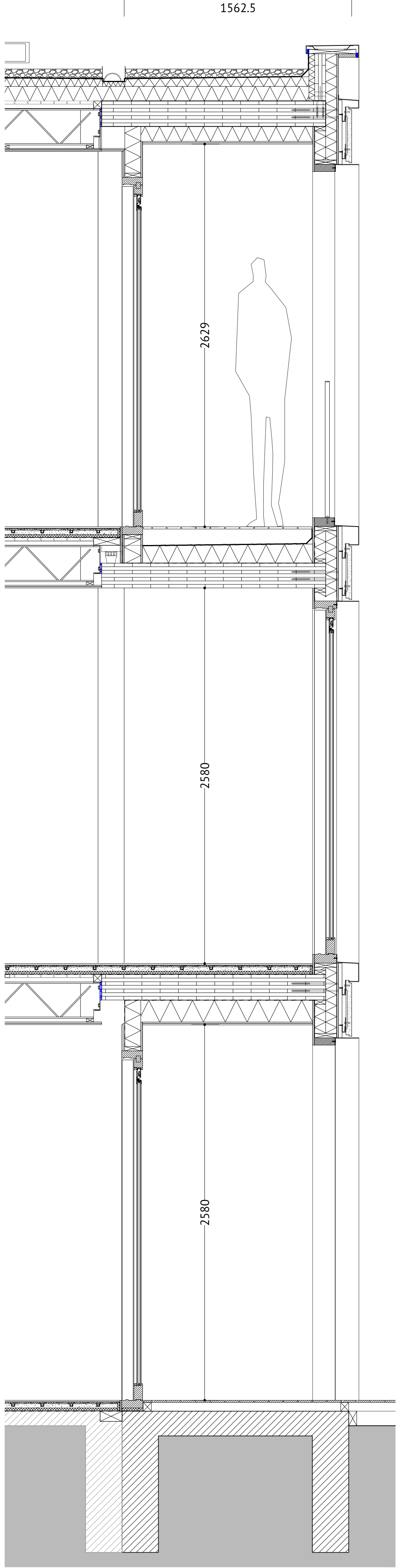
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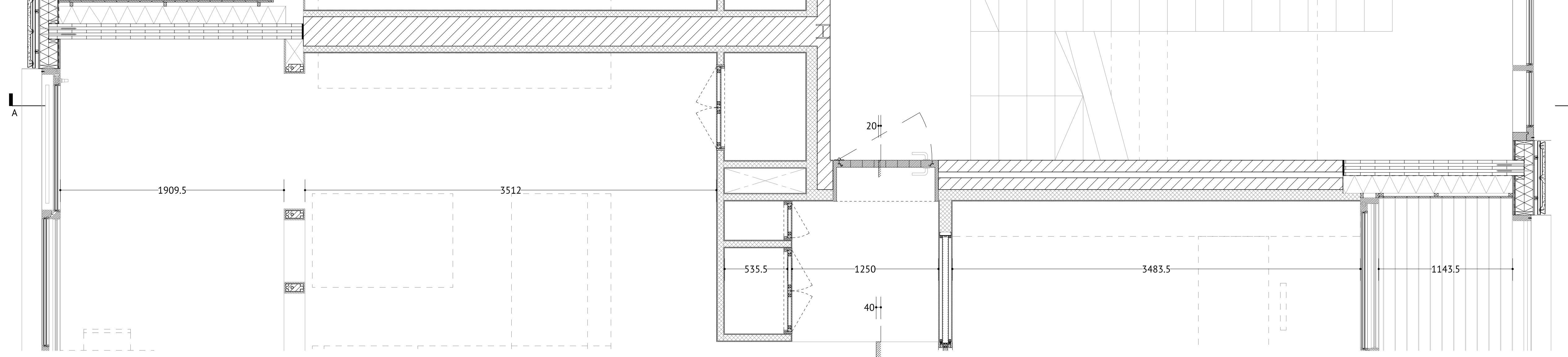
SECTION AA' SCALE 1/20



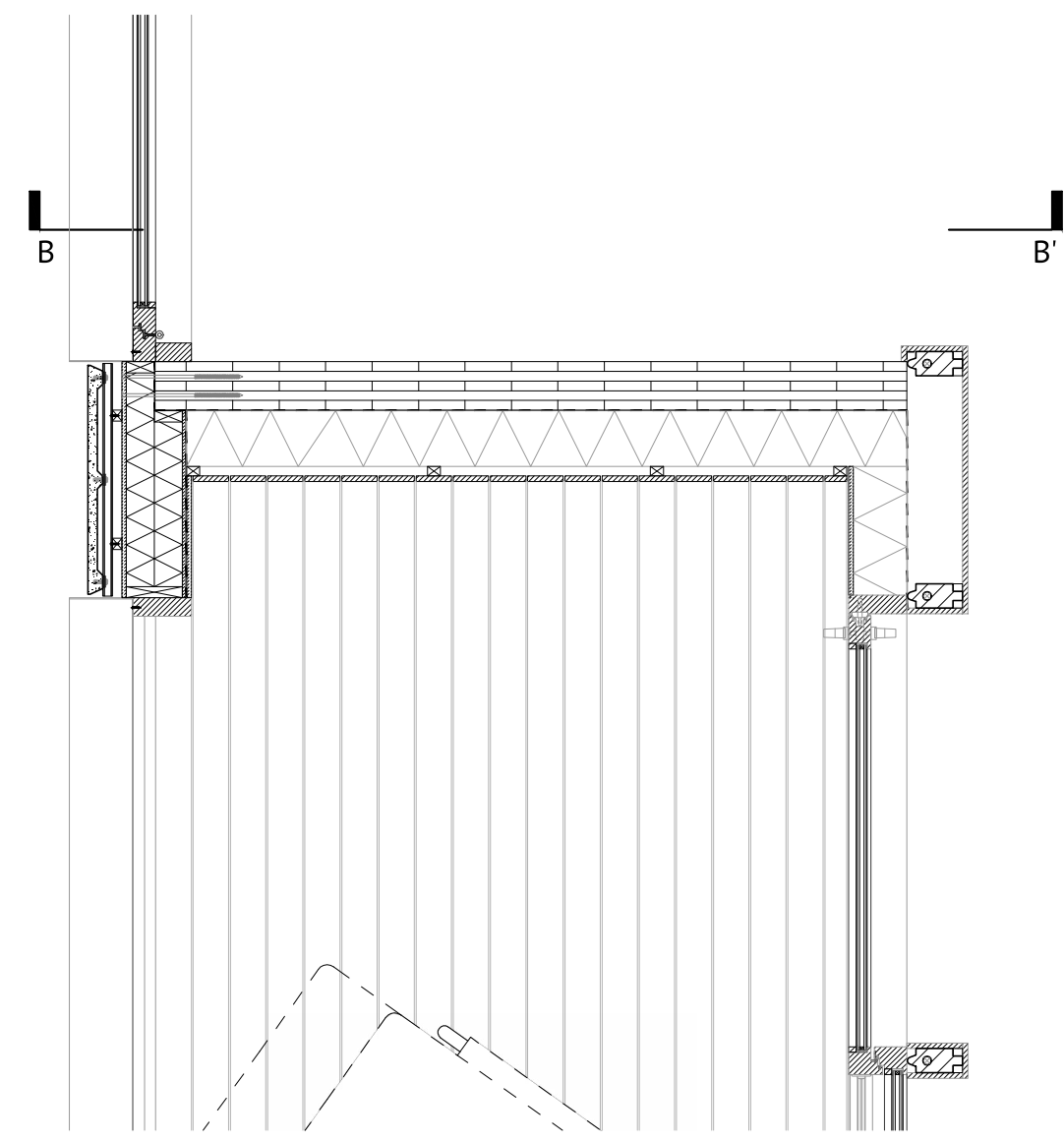
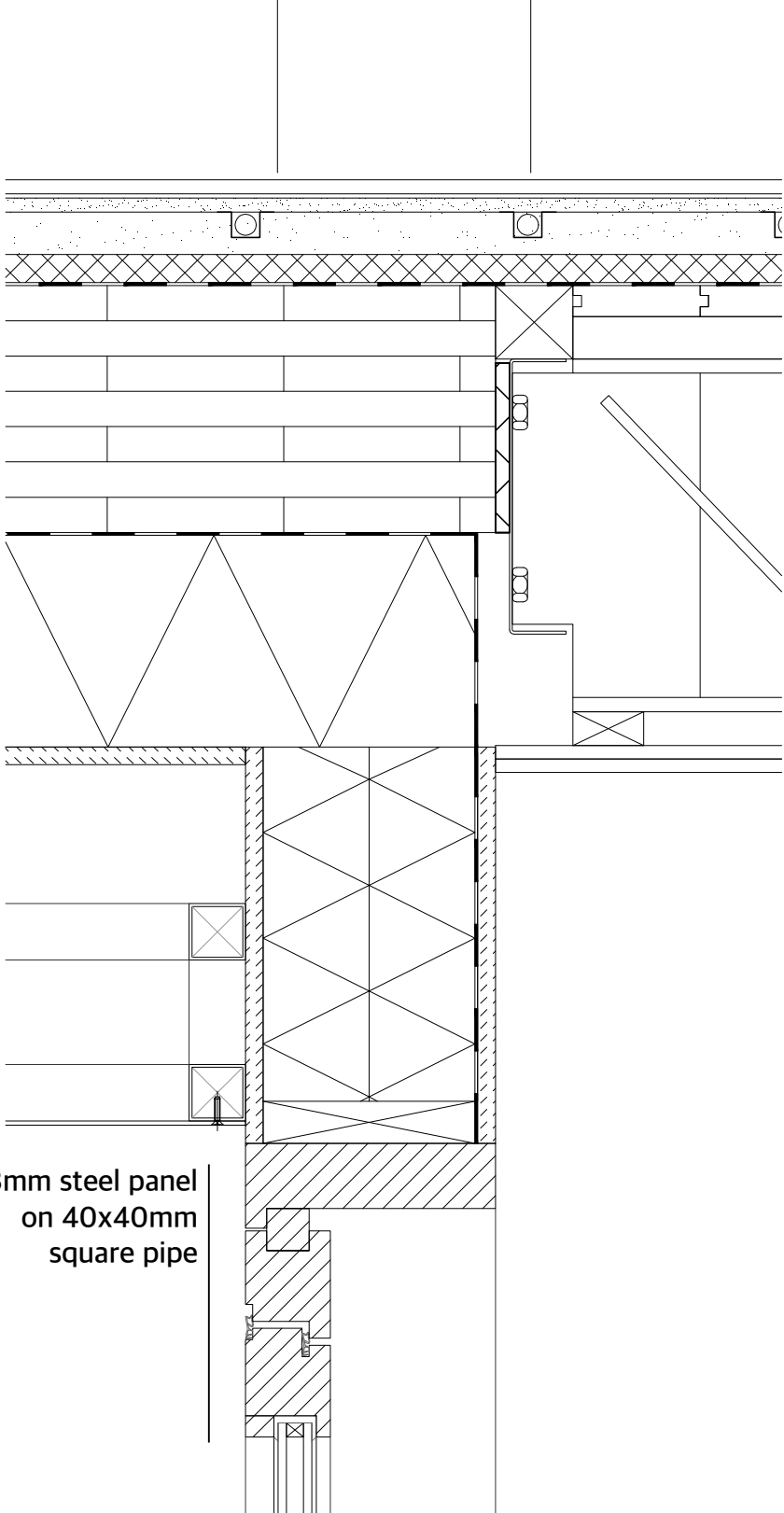
SECTION CC' SCALE 1/20



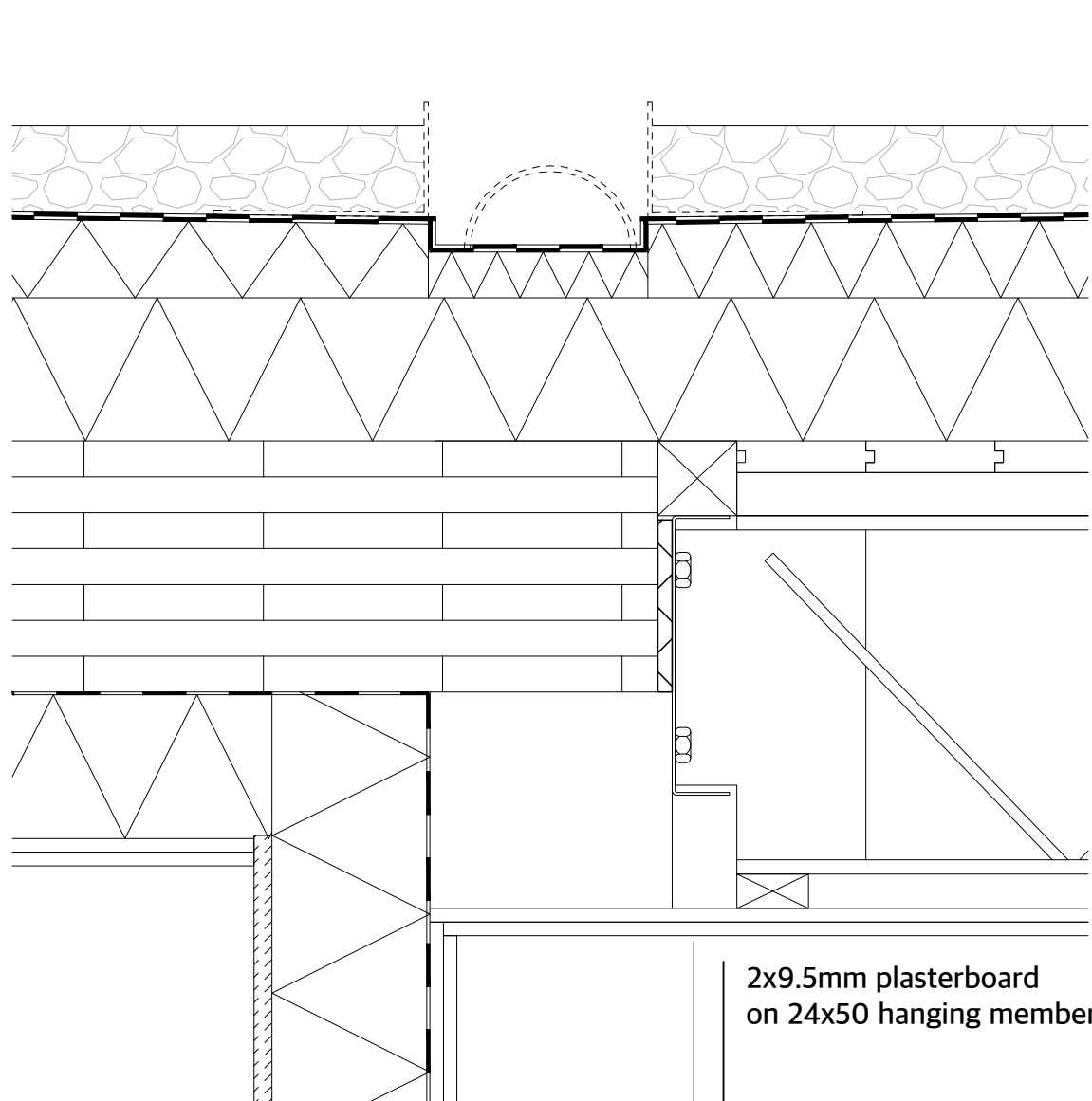
FRAGMENT PLAN_TYPE B SCALE 1/20



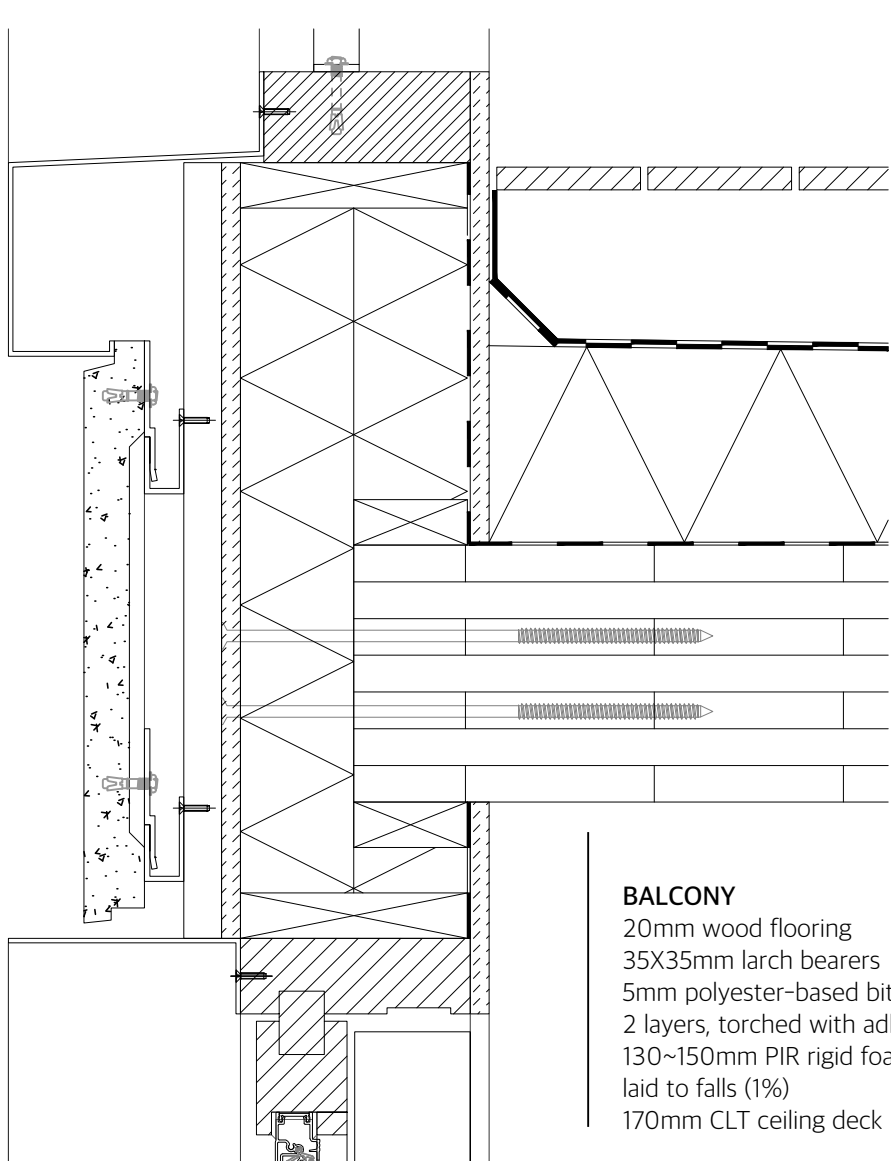
DETAIL 08 SCALE 1/5



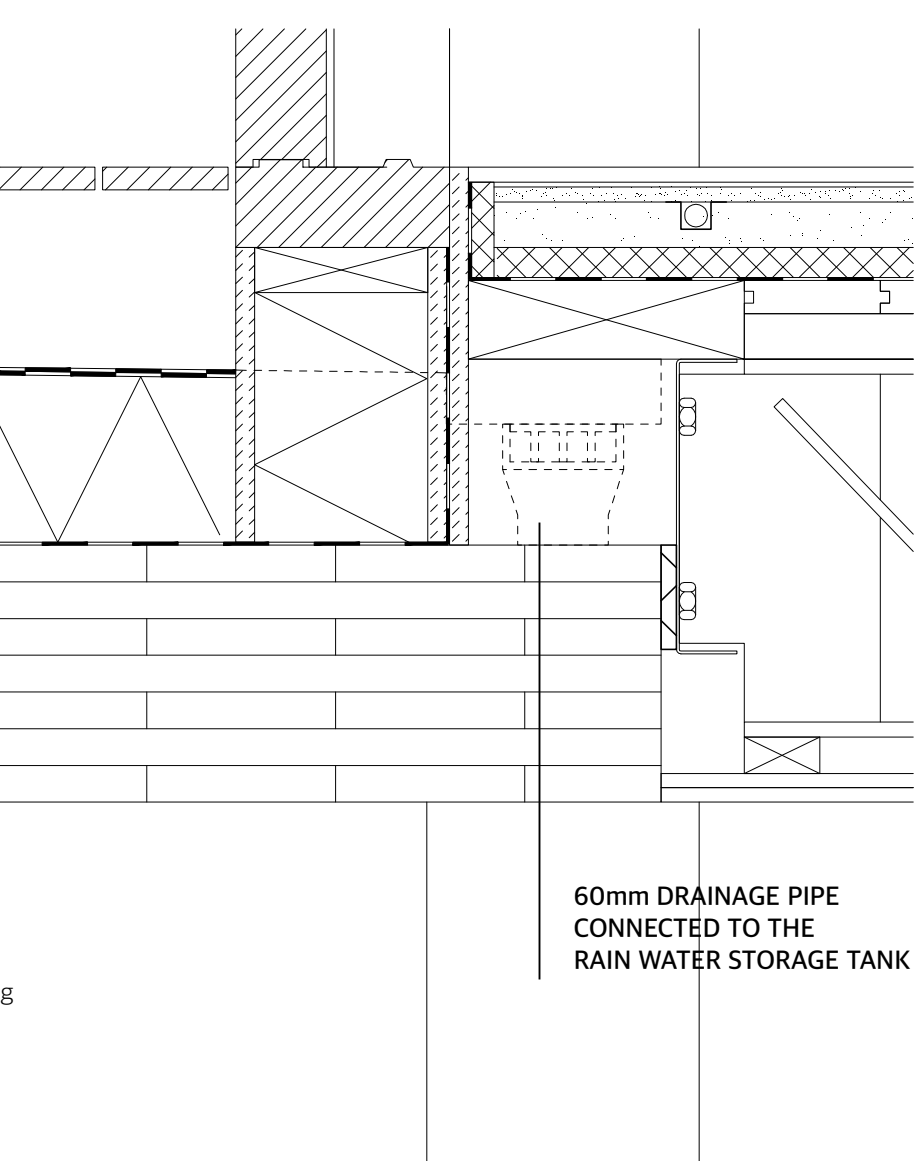
DETAIL 03 SCALE 1/5



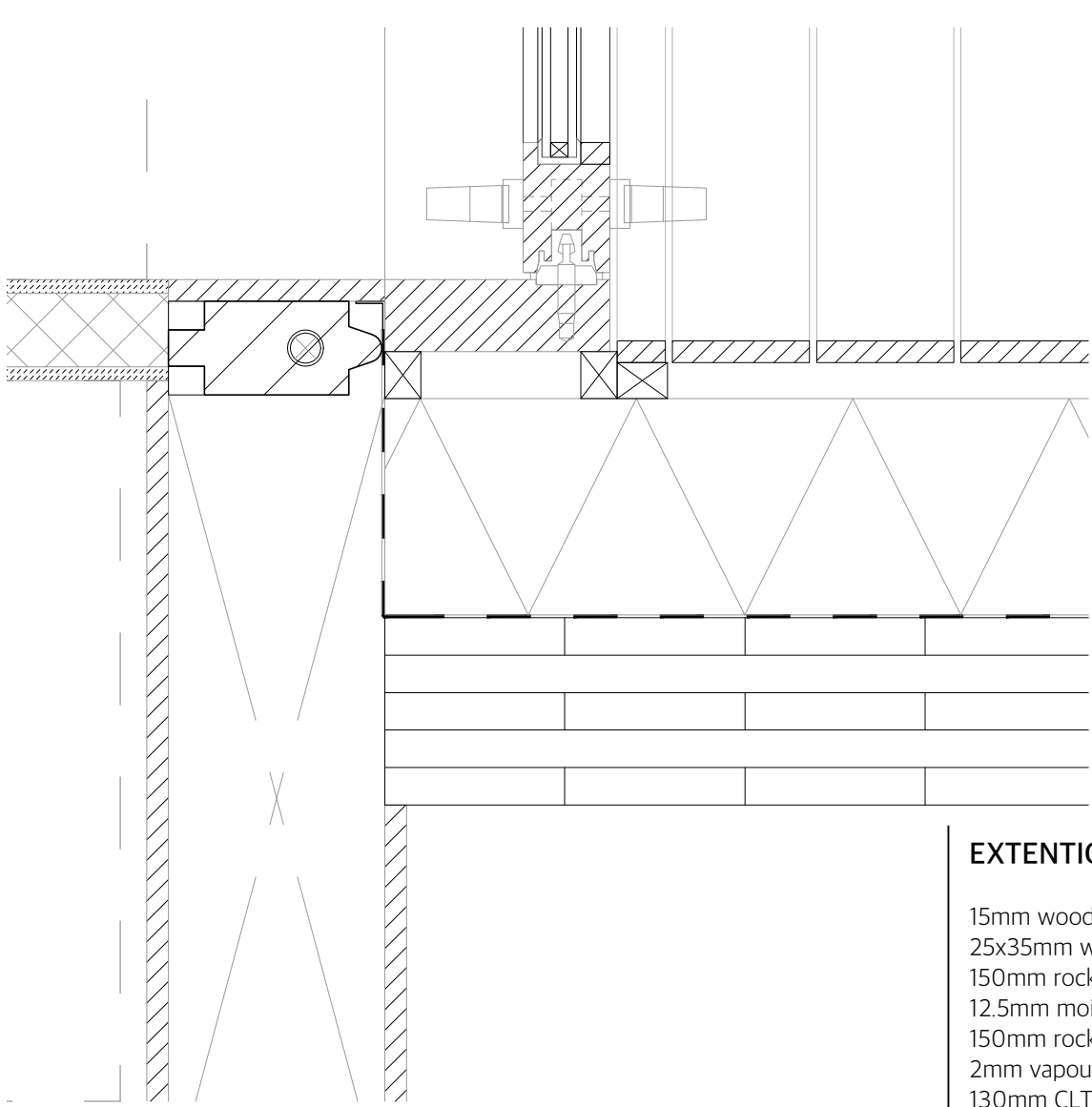
DETAIL 04 SCALE 1/5



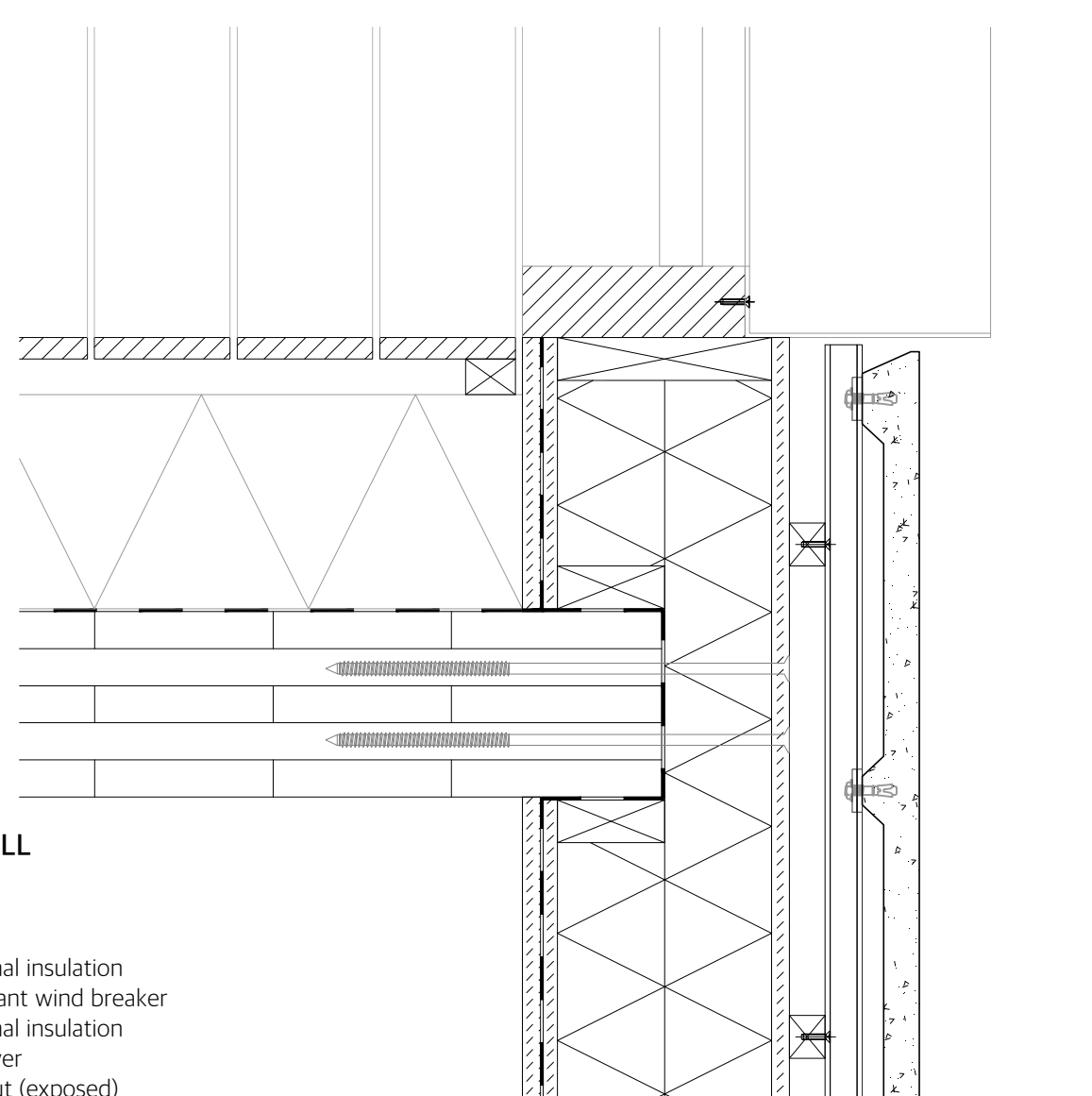
DETAIL 05 SCALE 1/5



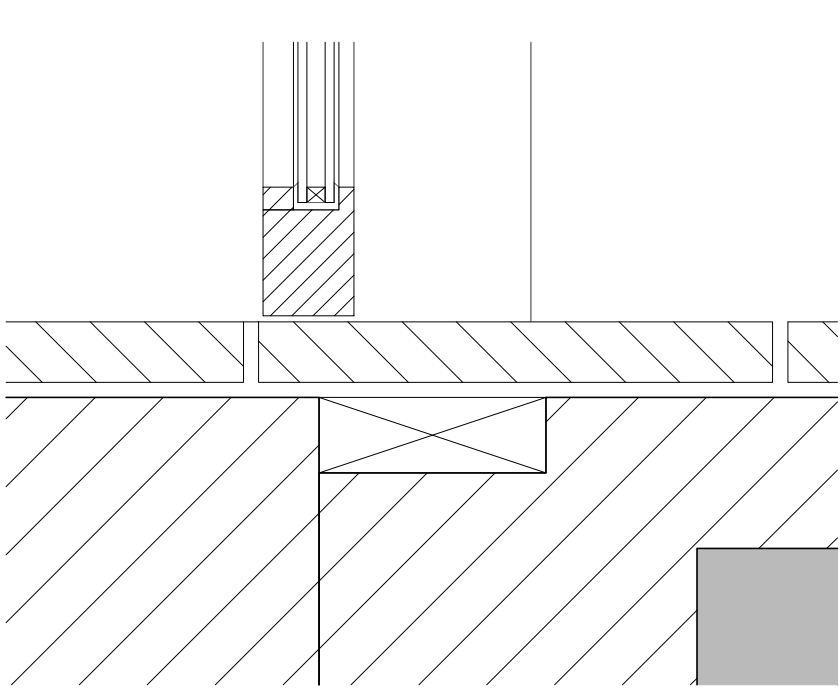
DETAIL 06 SCALE 1/5



DETAIL 07 SCALE 1/5



DETAIL 09 SCALE 1/5



BALCONY
20mm wood flooring
35x35mm larch bearers
5mm polyester-based bitumen sheeting
2 layers, torched with adhesive
130-150mm PIR rigid foam insulation
laid to falls (1%)
170mm CLT ceiling deck

60mm DRAINAGE PIPE
CONNECTED TO THE
RAIN WATER STORAGE TANK

EXTENSIONAL WALL
15mm wood panel
25x35mm wood batten
150mm rockwool thermal insulation
12.5mm moisture resistant wind breaker
150mm rockwool thermal insulation
2mm vapour control layer
130mm CLT wall without (exposed)