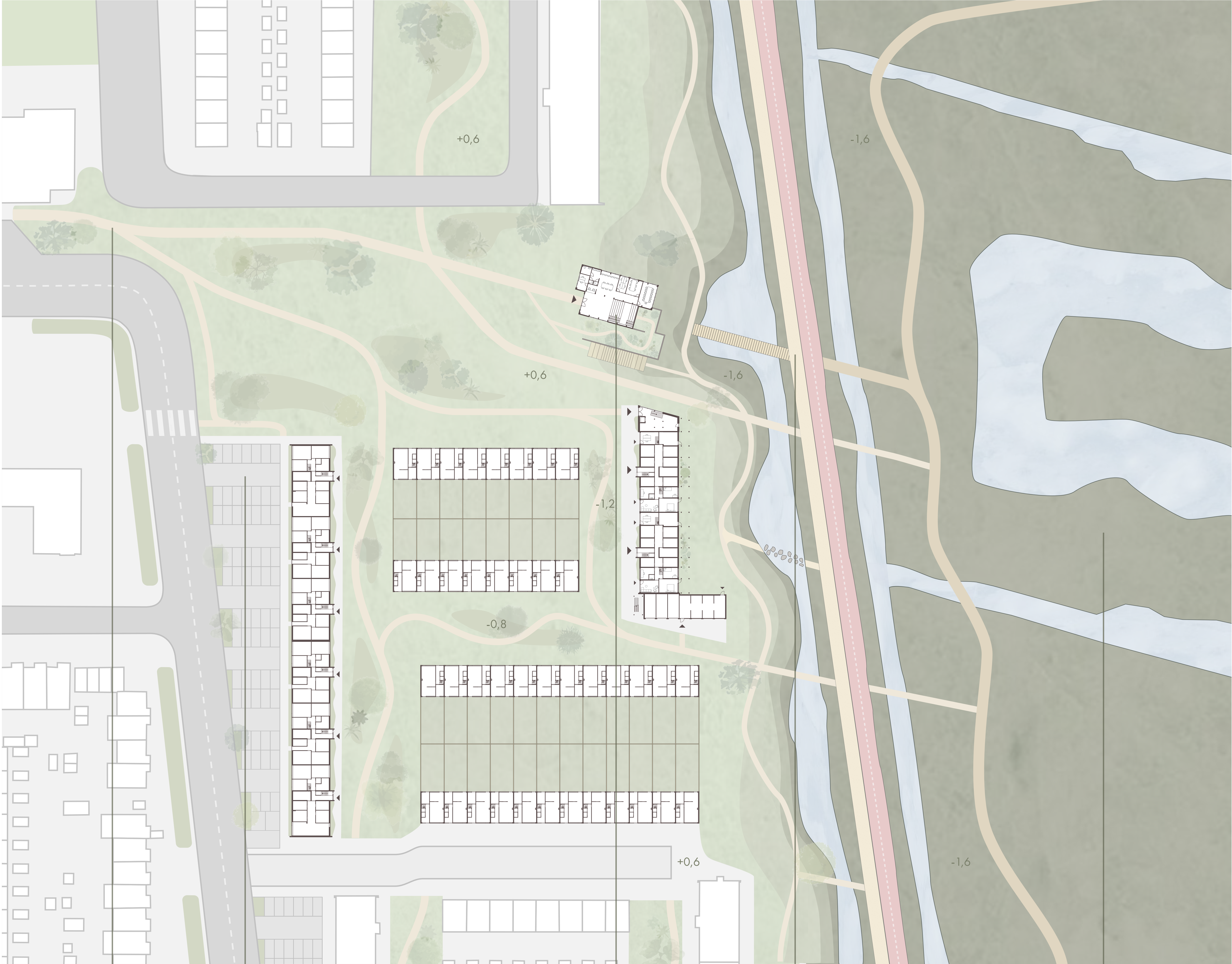


URBAN PLAN

STAMP PLAN

Scale 1:800



Continuous
ecological corridor

Parking moved
towards main road

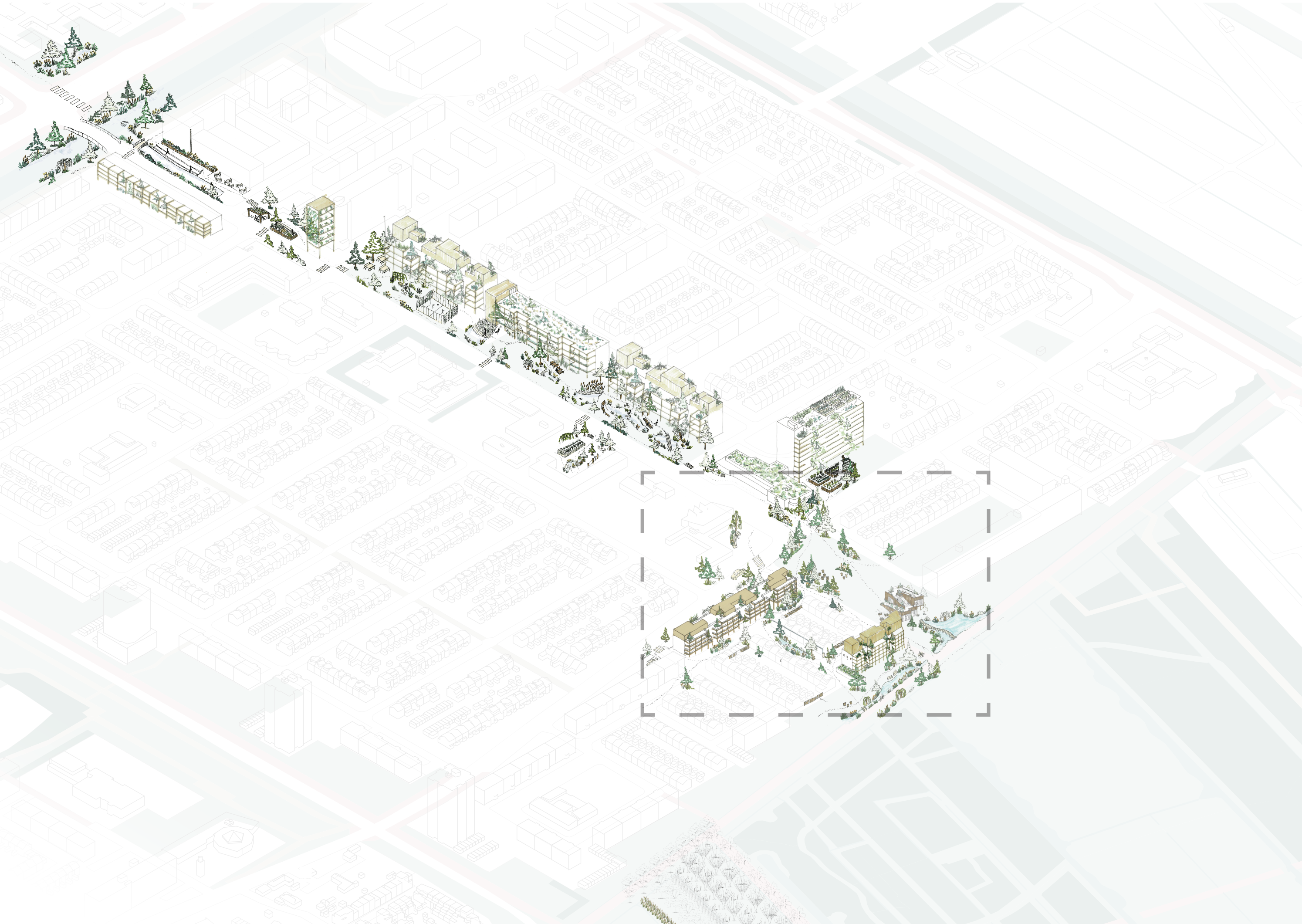
Pavilion responds to
polder landstructure
and height of the
landscape

Clear access and
connection to
landscape

Recreational forrest
and peat meadow
landscape



ISOMETRIC NEIGHBORHOOD



ISOMETRIC STAMP



PAVILION & IMPRESSIONS

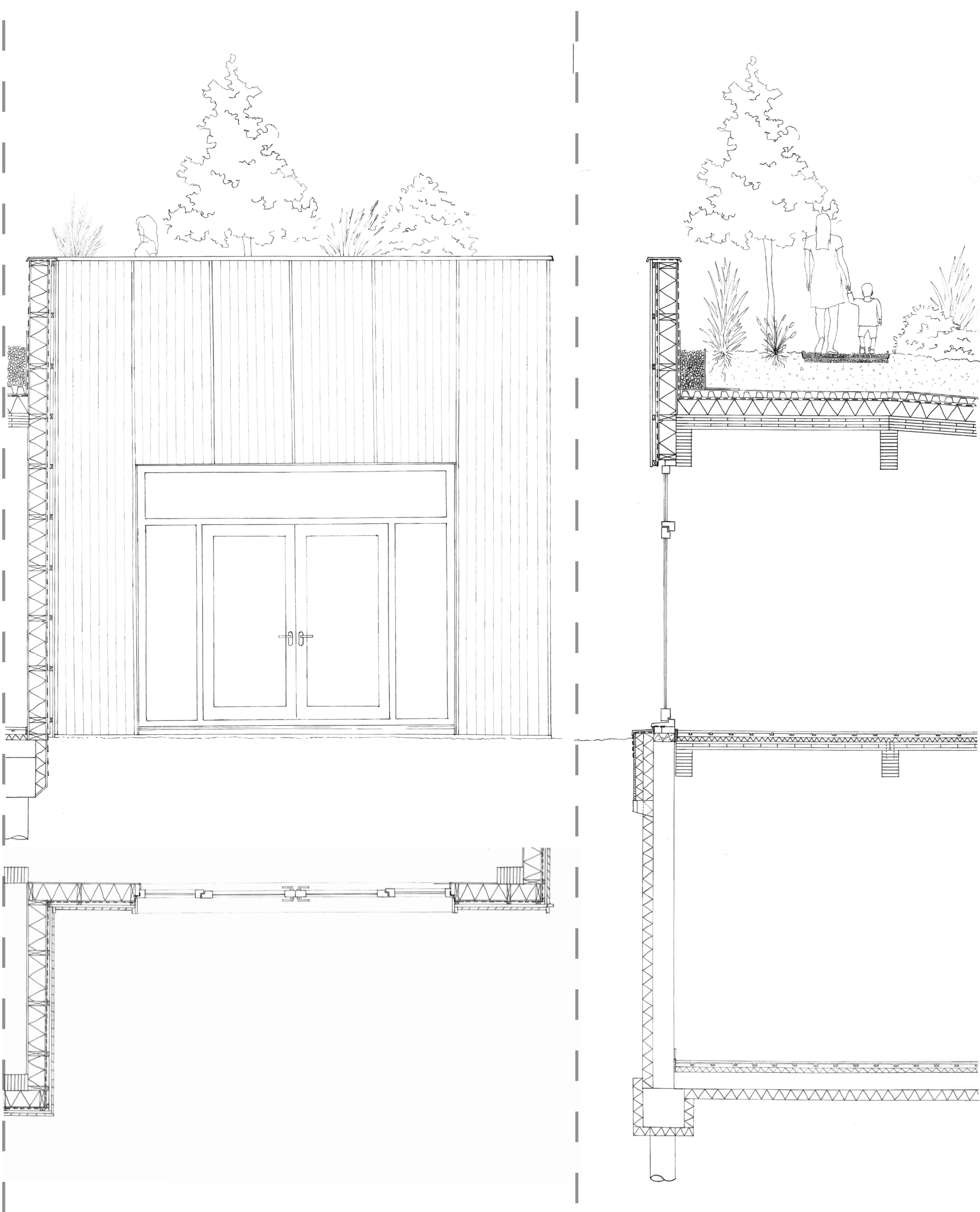
FLOOR PLANS PAVILION

Scale 1:200

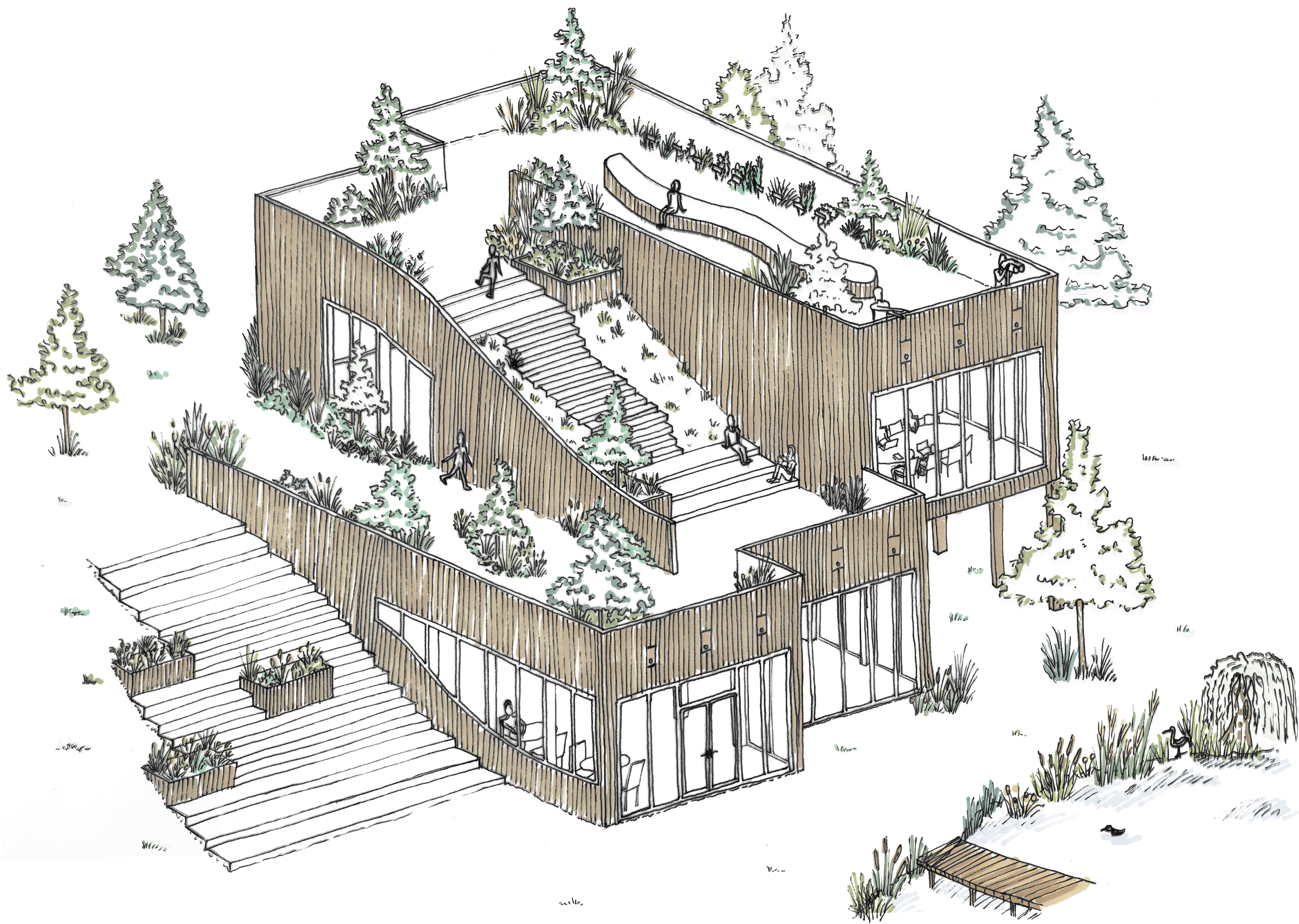


FRAGMENT & SECTIONS PAVILION

Scale 1:50



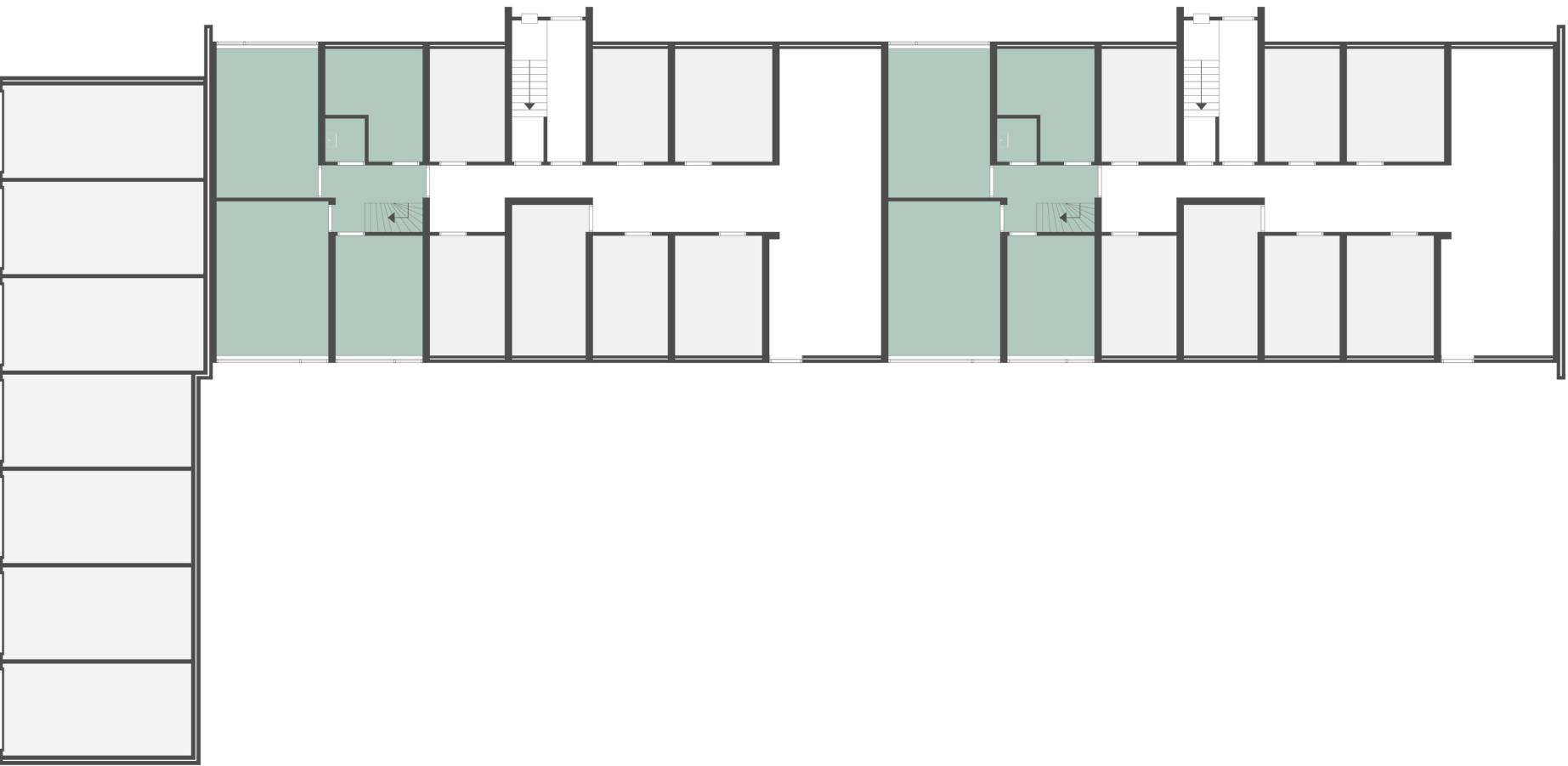
IMPRESSIONS



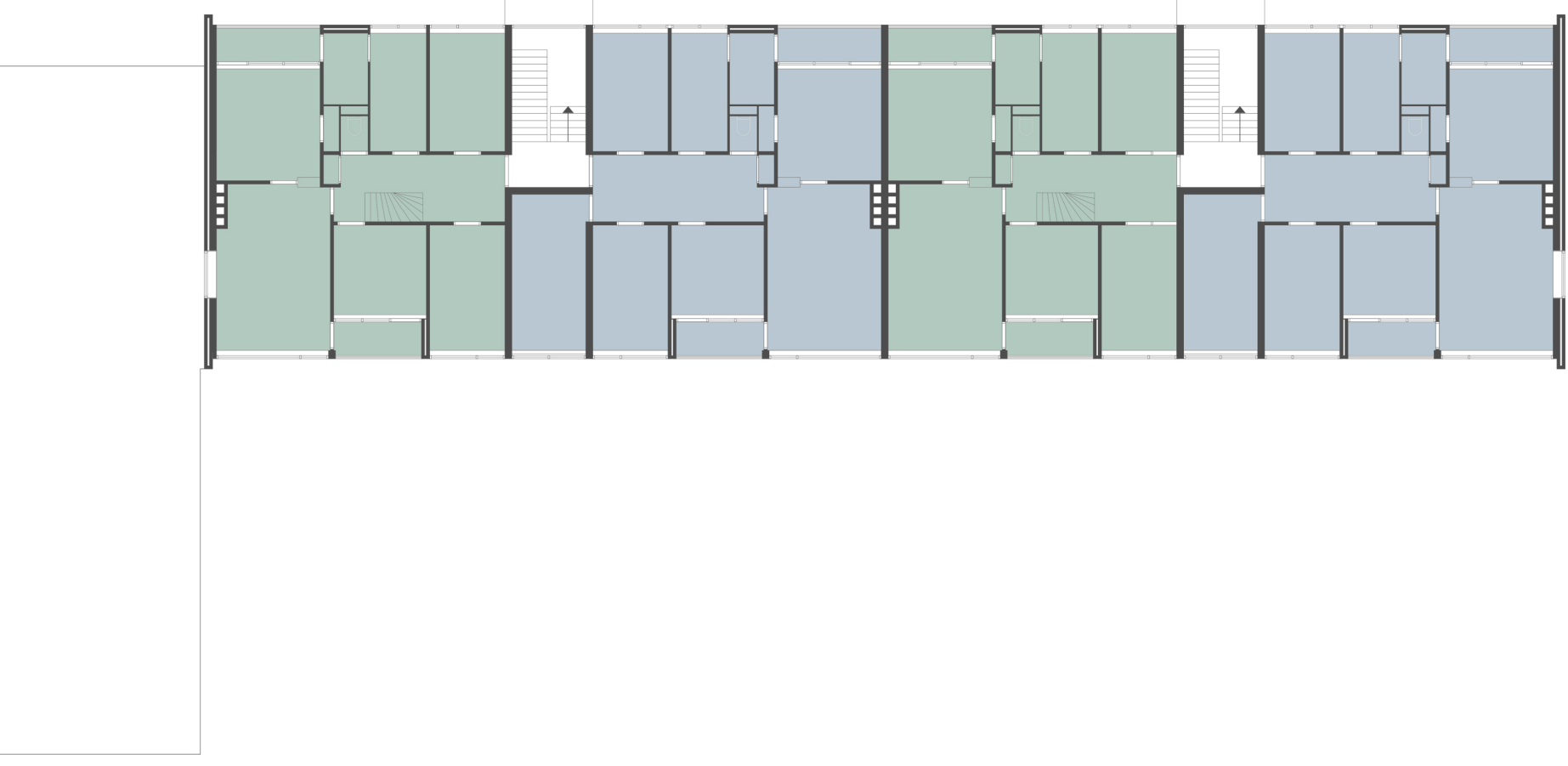
FLOOR PLANS

EXISTING FLOOR PLANS

Scale 1:200



Ground floor



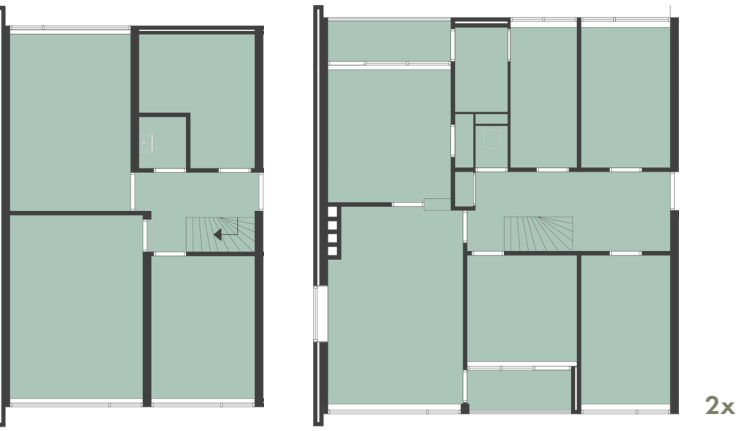
First floor



Second - fourth floor

VARIATION DWELLINGS WITHIN EXISTING PORTICO FLAT

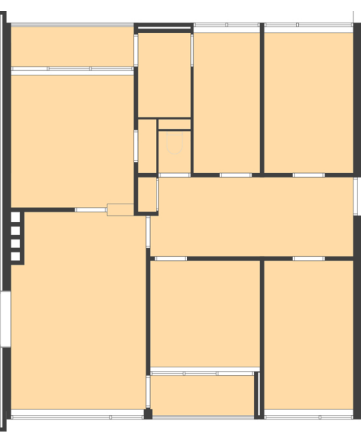
Existing situation



135 m²



90 m²



80 m²

Total number of dwellings: 16

New situation



60 m²

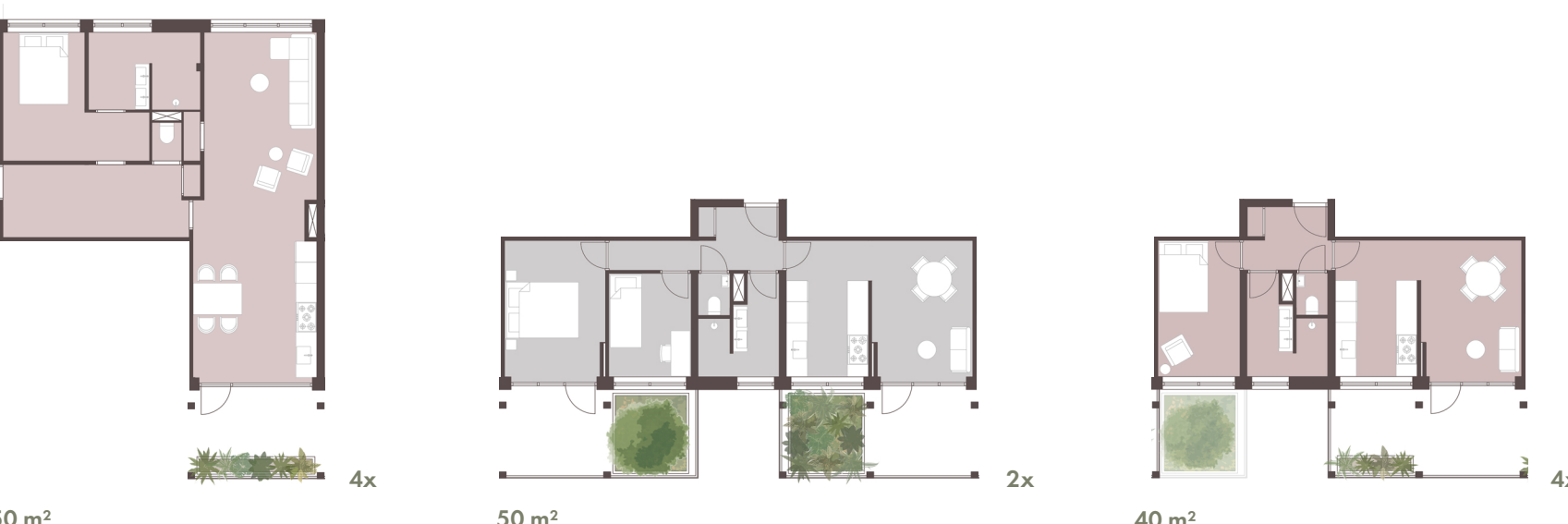
100 m²



95 m²

85 m²

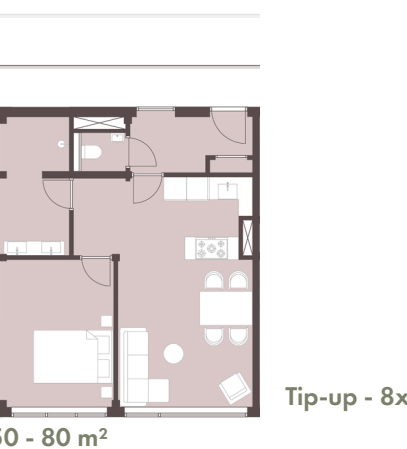
75 m²



50 m²

50 m²

40 m²



50 - 80 m²

Total number of dwellings: 30

Apartment type existing

- 3-bedroom apartment
- 4-bedroom apartment
- 7-bedroom apartment - 2 floors
- Storage
- Transition spaces

Apartment type new

- Loft - 1-bedroom apartment
- Loft - 3-bedroom apartment
- 1-bedroom apartment
- 2-bedroom apartment
- 3-bedroom apartment
- 4-bedroom apartment
- Storage
- Transition spaces

NEW FLOOR PLANS

Scale 1:200



Ground floor



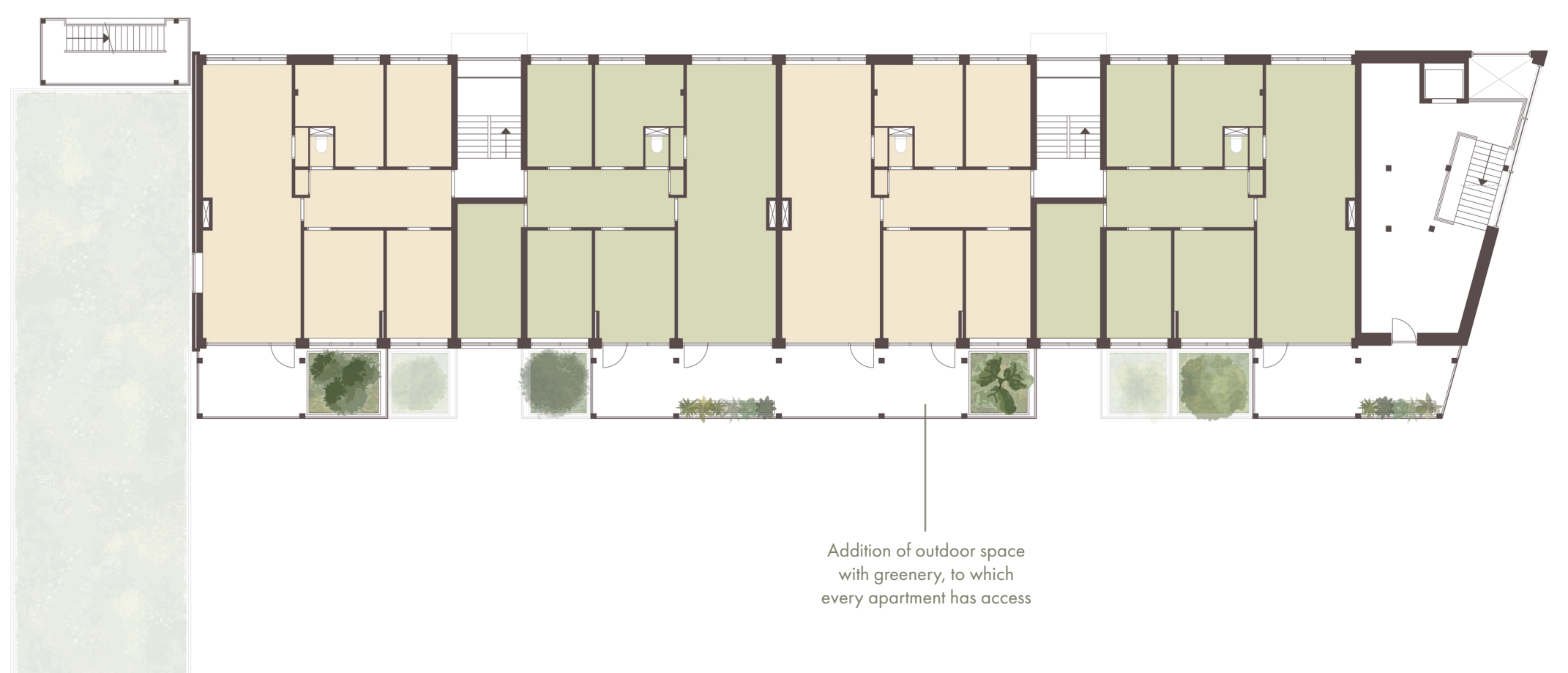
First floor



Second floor



Third floor



Fourth floor



Fifth floor



Sixth floor

SECTIONS & ELEVATIONS RENOVATED PORTICO FLAT

ELEVATIONS

Scale 1:100



East elevation



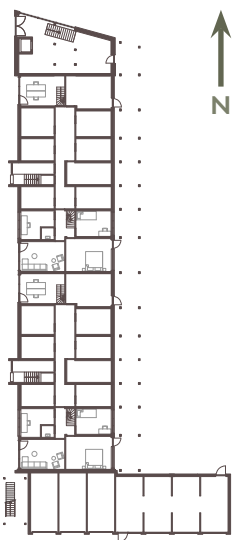
West elevation



South elevation

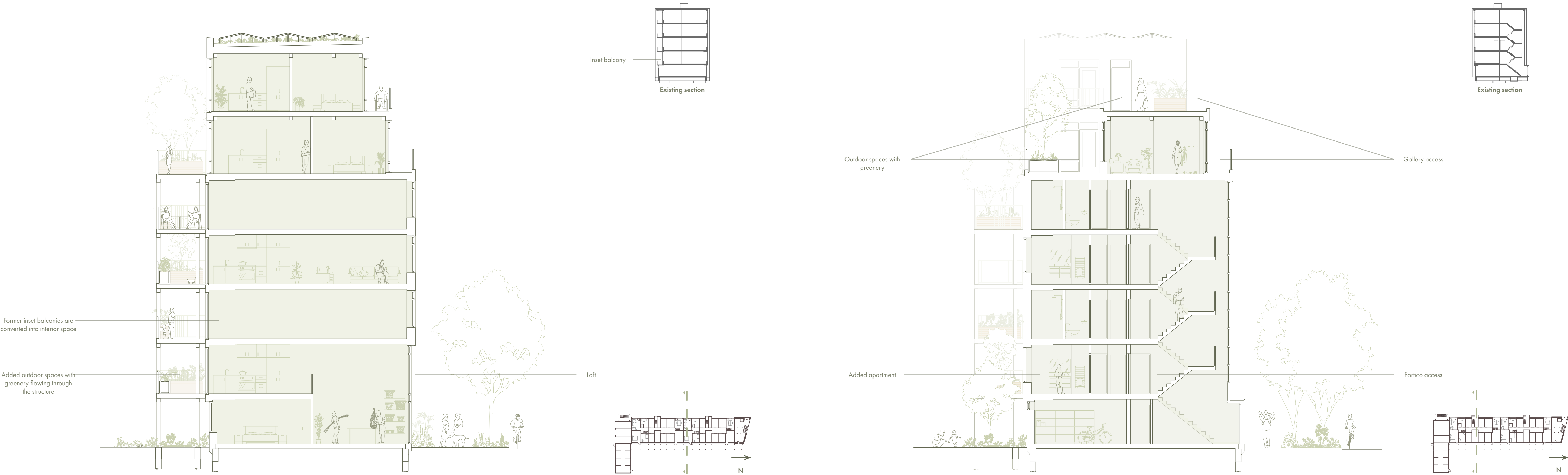


North elevation



SECTIONS

Scale 1:100



FACADE DESIGN RENOVATED PORTICO FLAT

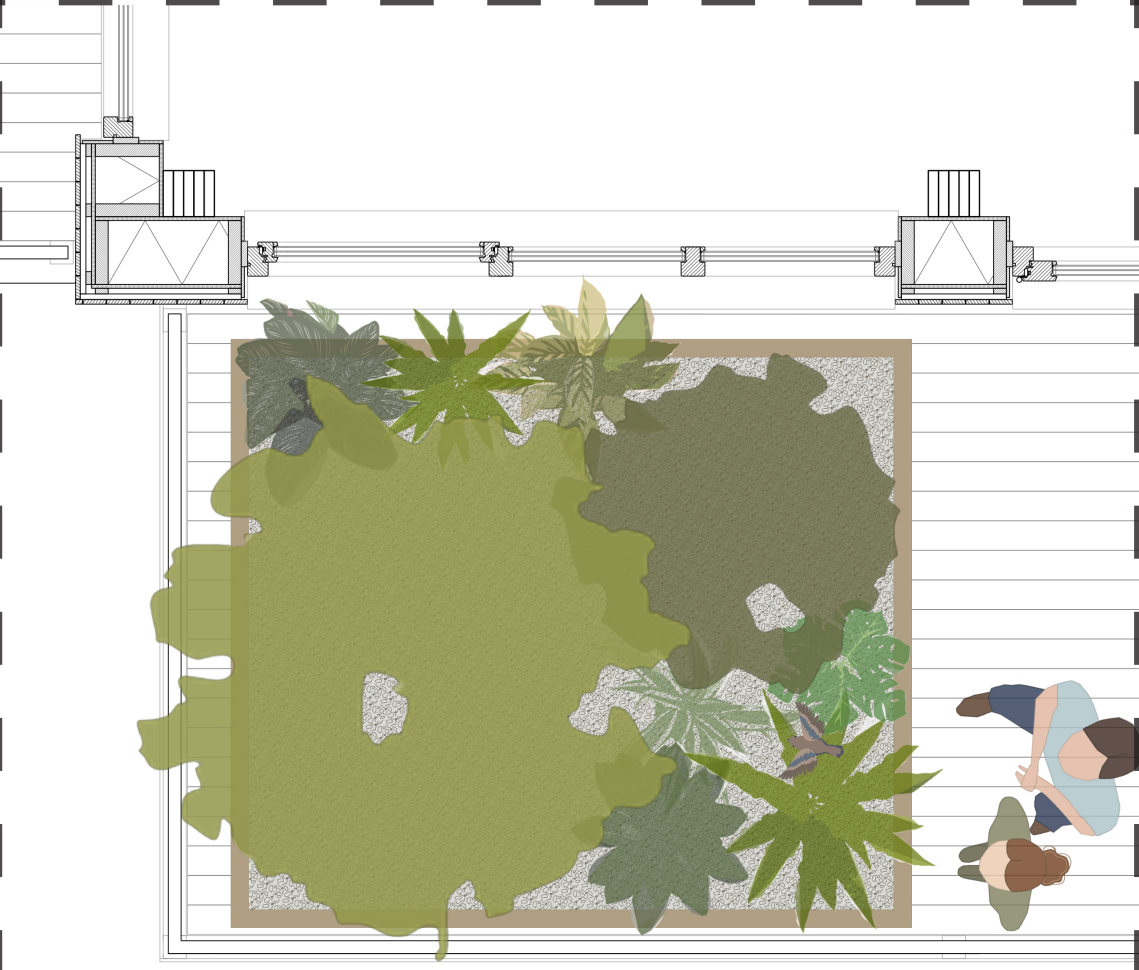
FACADE FRAGMENT

Scale 1:30



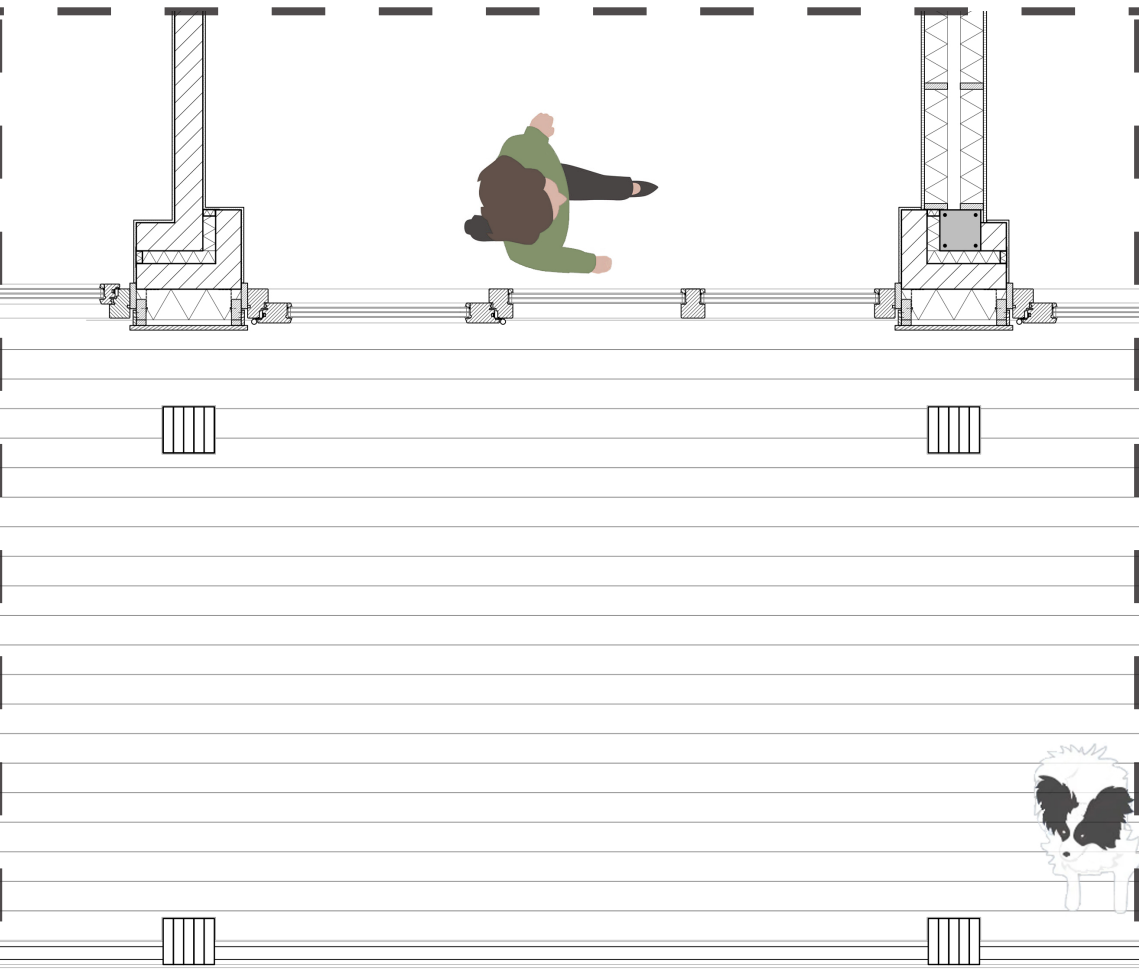
HORIZONTAL SECTION TOP-UP

Scale 1:30



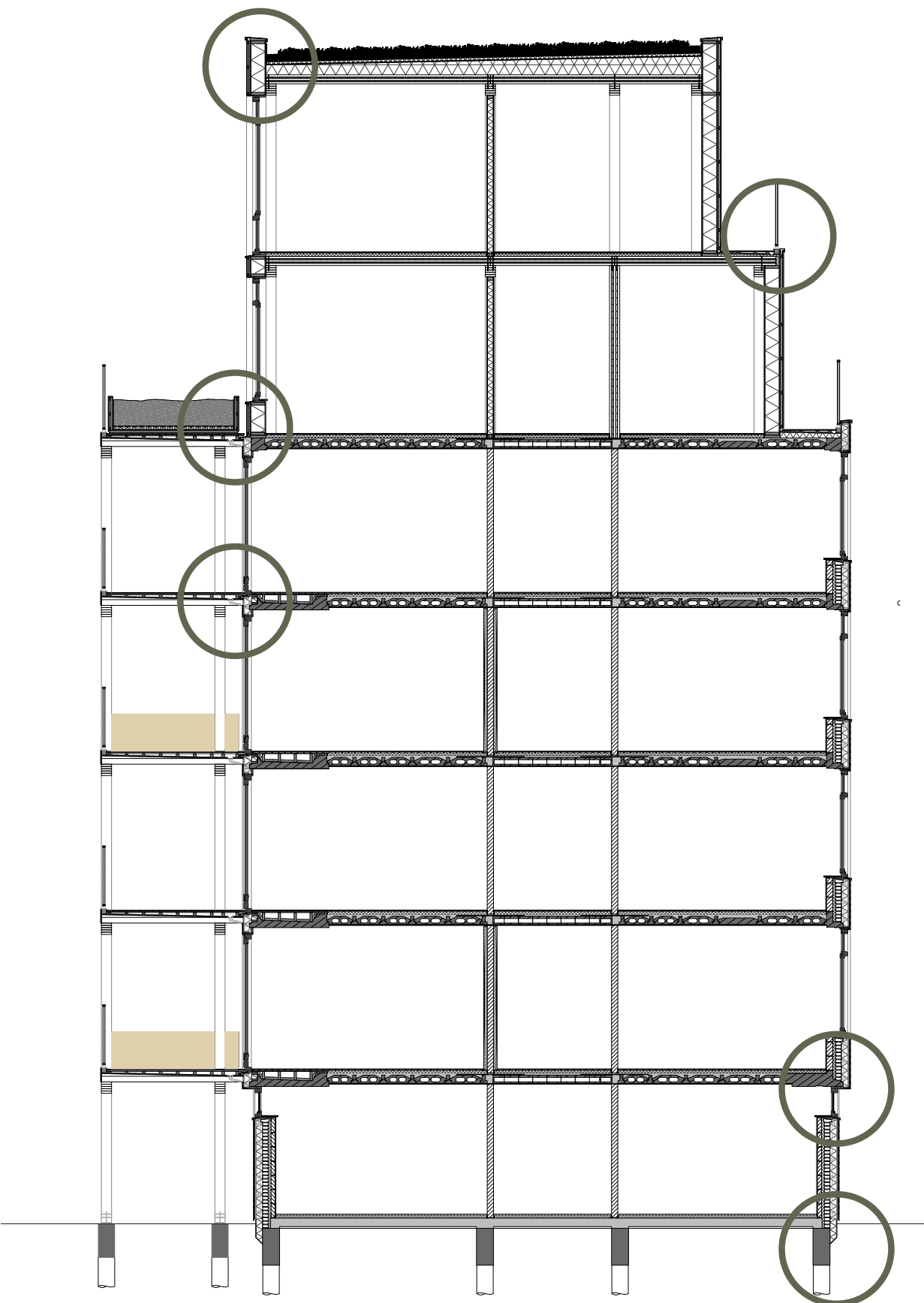
HORIZONTAL SECTION RENOVATION

Scale 1:30



VERTICAL SECTION

Scale 1:30



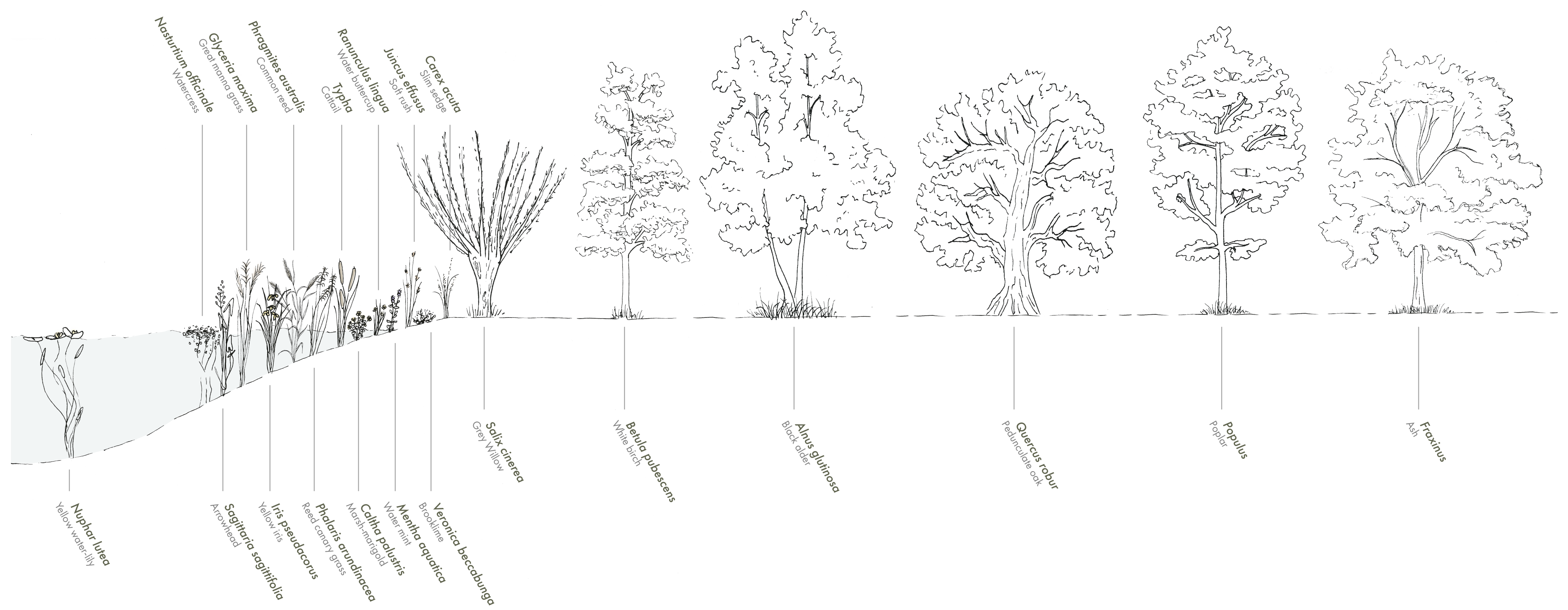
DETAILS

Scale 1:100

CLIMATE DESIGN

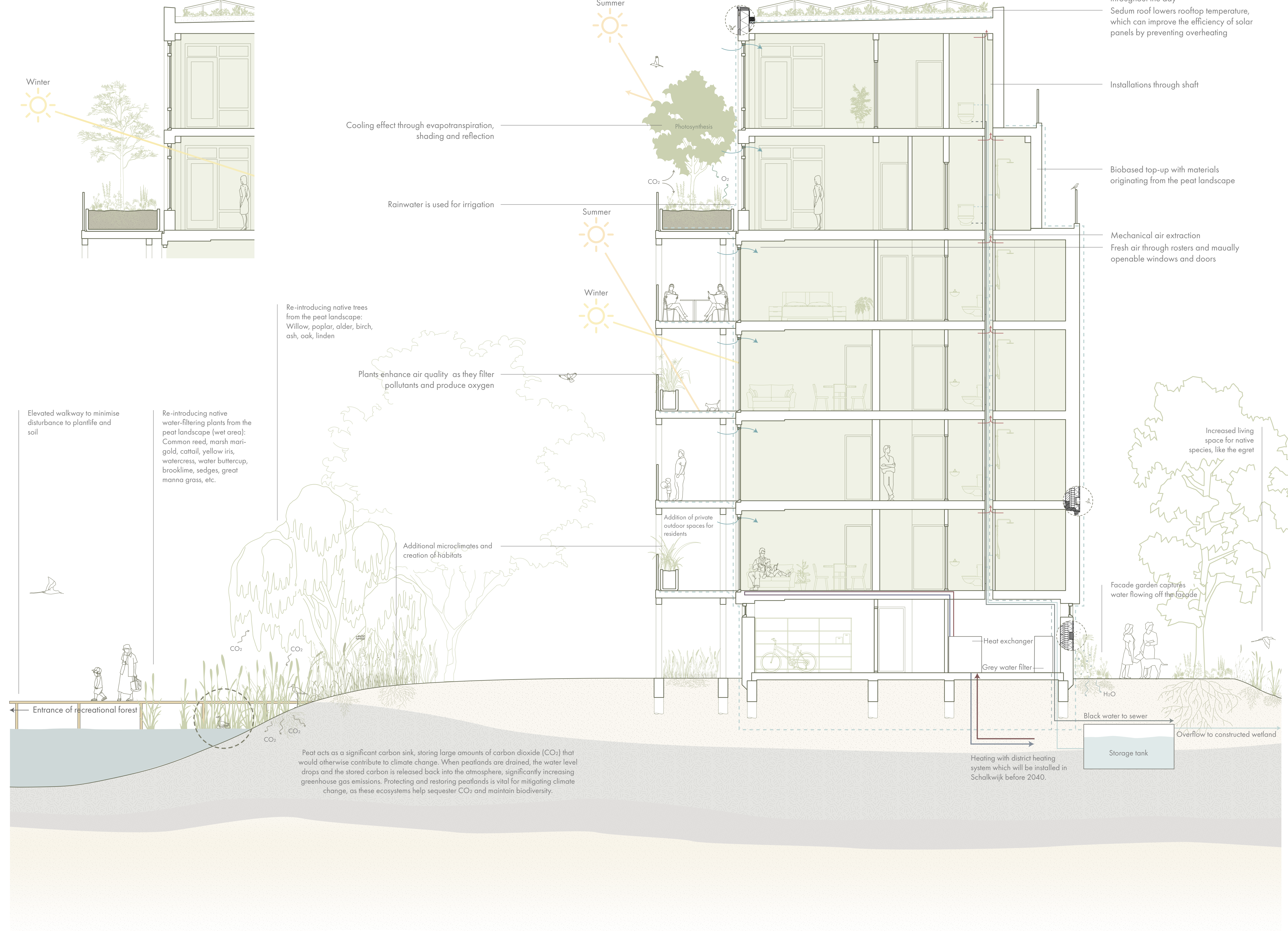
The renovation of the portico flat focusus on creating a healthy living environment for residents by simultenniously enhancing both environmental quality and building performance. This is achieved by incorporating ecosystem services into the design process and applying them in the architecture and urban plan. By implementing various (nature based) strategies to enhance these ecosystem services, the design helps support local wildlife, manage stormwater, regulate air quality and urban temperature and zontribute to the provision of fresh water. The goal is to create a space that works in harmony with nature while being more sustainable and resilient to climate change.

INTEGRATION OF VEGETATION FROM THE PEAT LANDSCAPE



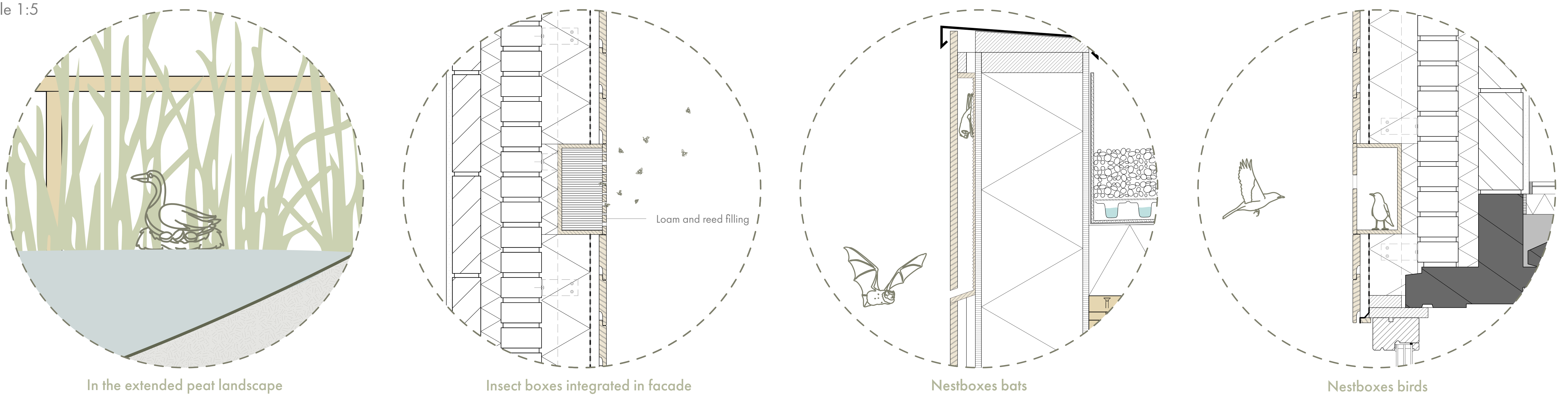
CLIMATE & ECOLOGY

Scale 1:50



PROVISION OF HABITATS - INTEGRATED NESTING FACILITIES

Scale 1:5



MATERIALITY AND DETAILS

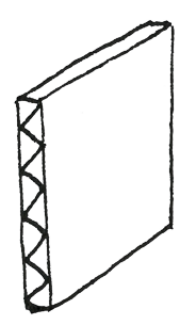
BIOBASED MATERIALS FROM THE PEAT LANDSCAPE



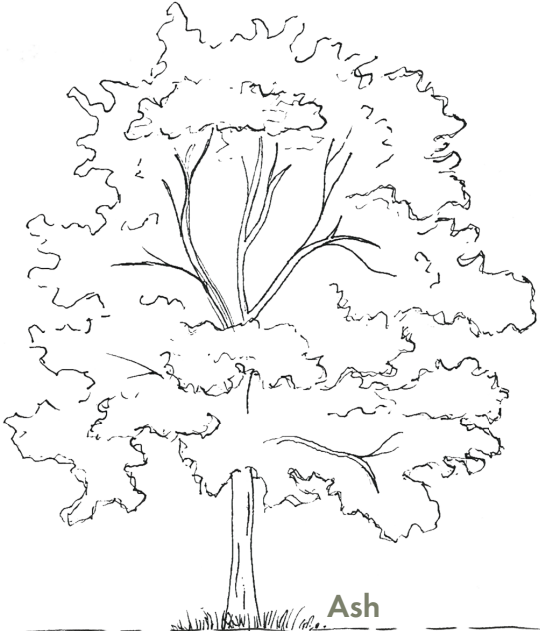
Cattail



1 YEAR



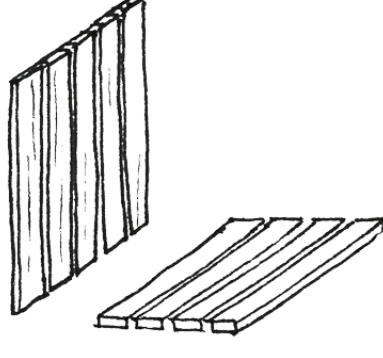
Cattail insulation for facade & roof; in floors for acoustic insulation



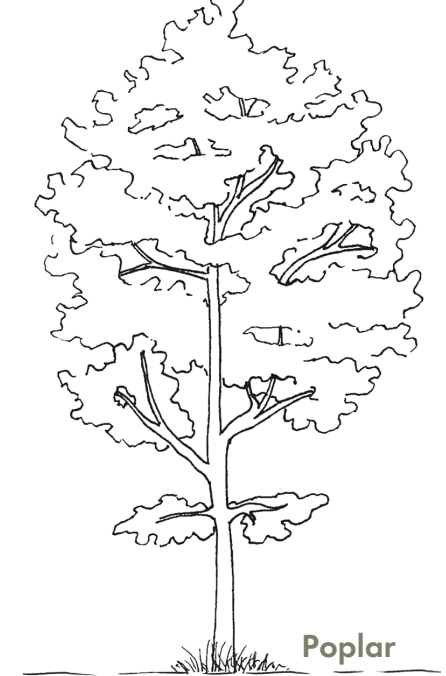
Ash



30 - 50 YEARS



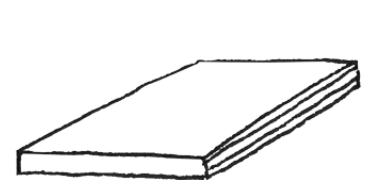
Ash wood as facade cladding and terrace; after having undergone thermal modification to increase its durability



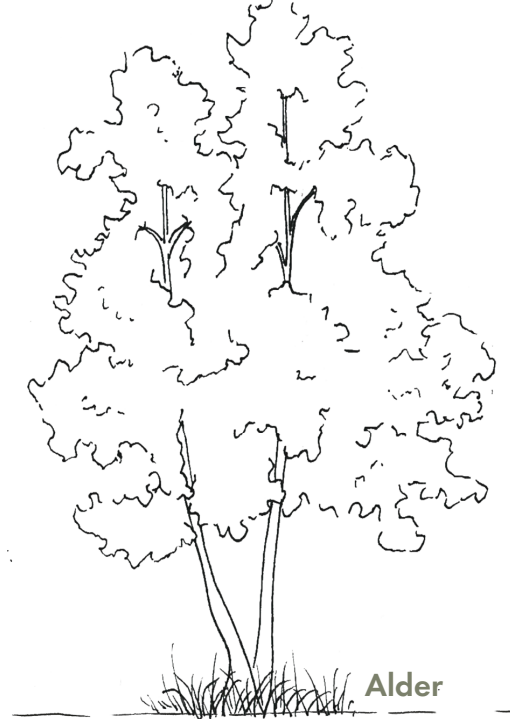
Poplar



10 - 15 YEARS



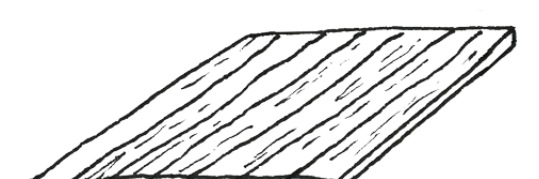
Poplar plywood and OSB for interior walls and sub-floor boards



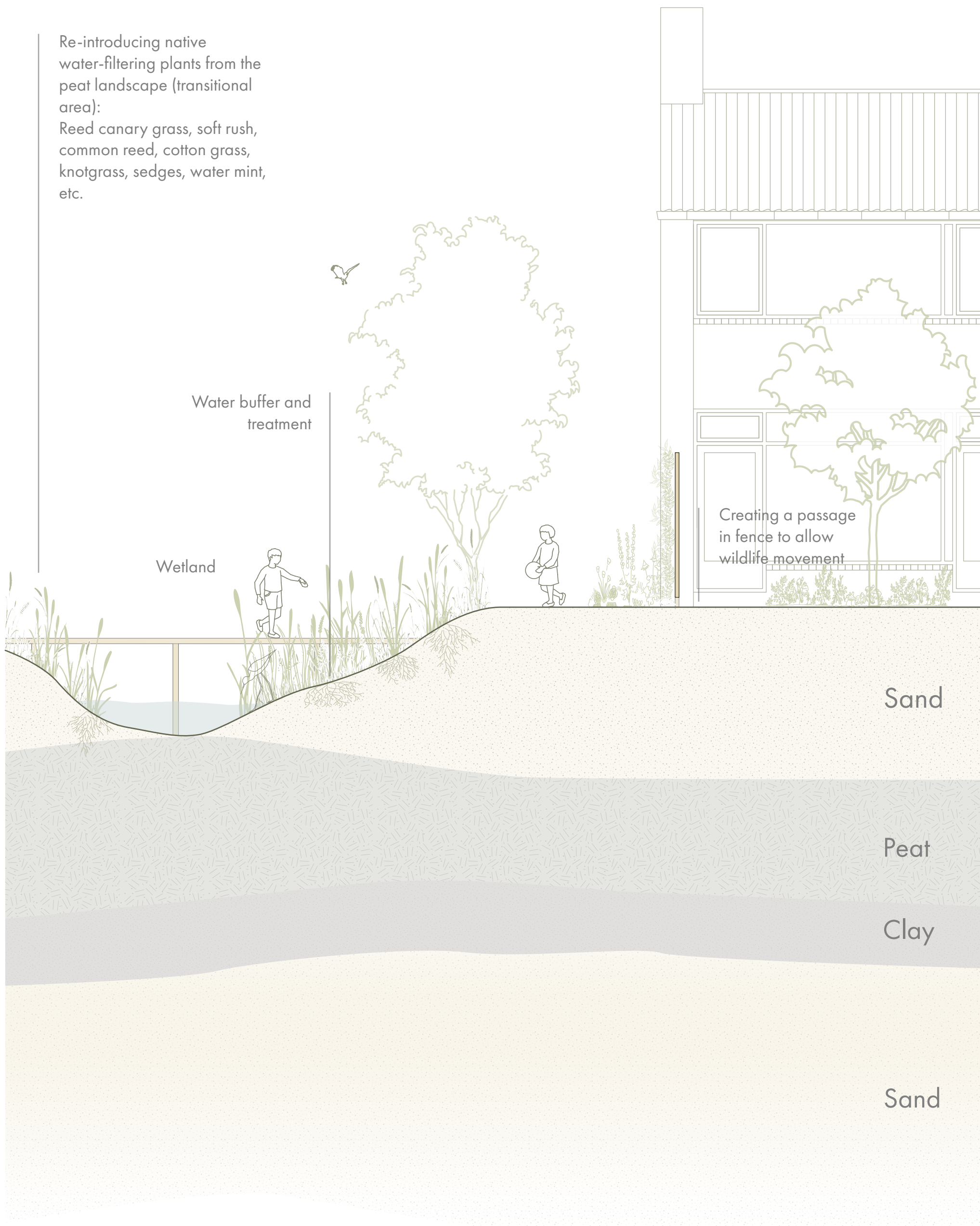
Alder



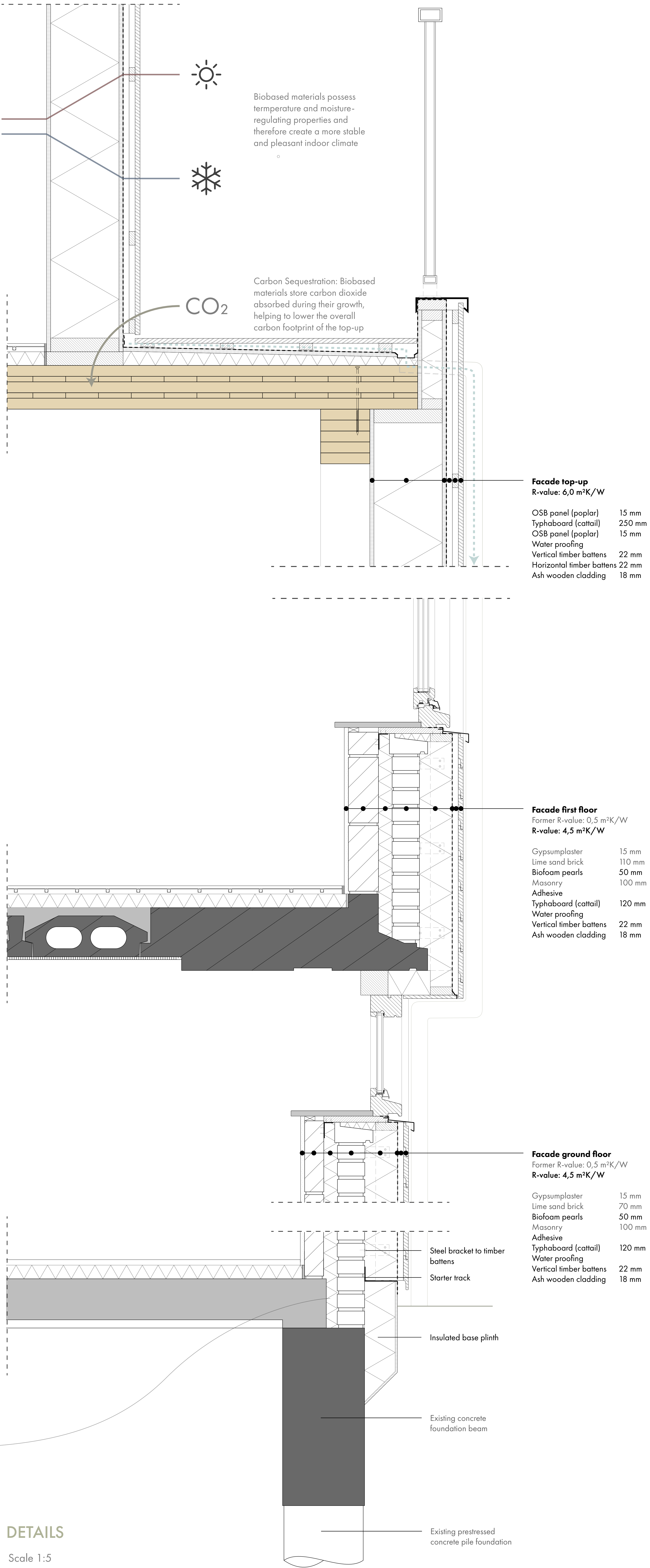
20 - 30 YEARS



Alder interior flooring



Biofoam pearls are produced by polymerizing lactic acid into PLA and foaming it with CO₂ extracted from the atmosphere. The lactic acid is obtained through fermentation of plant residual materials, like cassava and corn.



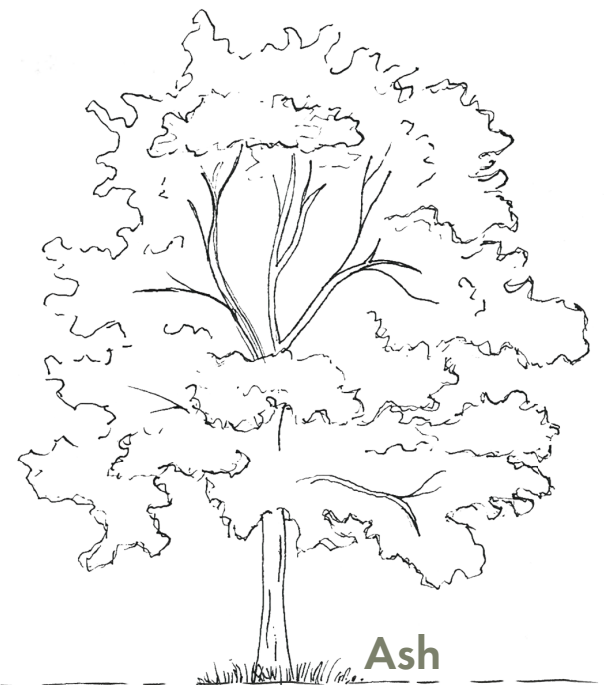
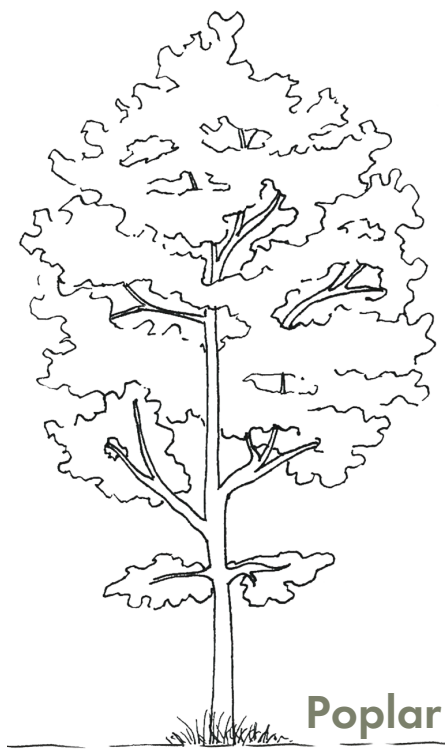
DETAILS

Scale 1:5

MATERIALITY AND DETAILS

DETAILS

Scale 1:5



Balcony with planter

Vegetation	
Substrate	500 mm
Filter sheet	
Drainage and storage	60 mm
Protection mat	4 mm
Root barrier	
Water proofing	
Timber planter box	58 mm
Ash wood terrace	18 mm
Timber floor battens	22 mm
in both directions	40 mm
Isolation pad	
Water proofing	
Multiplex decking	22 mm
Timber joist	125 mm

Sedum roof

R-value: 6,8 m²K/W

Vegetation	
Substrate	120 mm
Filter sheet	
Drainage and storage	40 mm
Protection mat	4 mm
Root barrier	
Water proofing	
Typhaboard (cattail)	200 mm
CLT floor panel	160 mm (40-20-40-20-40)

Floor

Wooden floor finish: alder	10 mm
Gypsum screed	2 mm
Fermacell floor slab	18 mm
with heating pipes	
PE construction foil	
Acoustic insulation: cattail	80 mm
Concrete element floor	180 mm
- 'Dato' floor	
Gypsumplaster	10 mm