



# Pond to Pool

## New Waterscape at the Friche Josaphat

Urban Architecture  
*Last Green in Town*

Michalina Dębska  
5863309  
P5 | 26.06.2024





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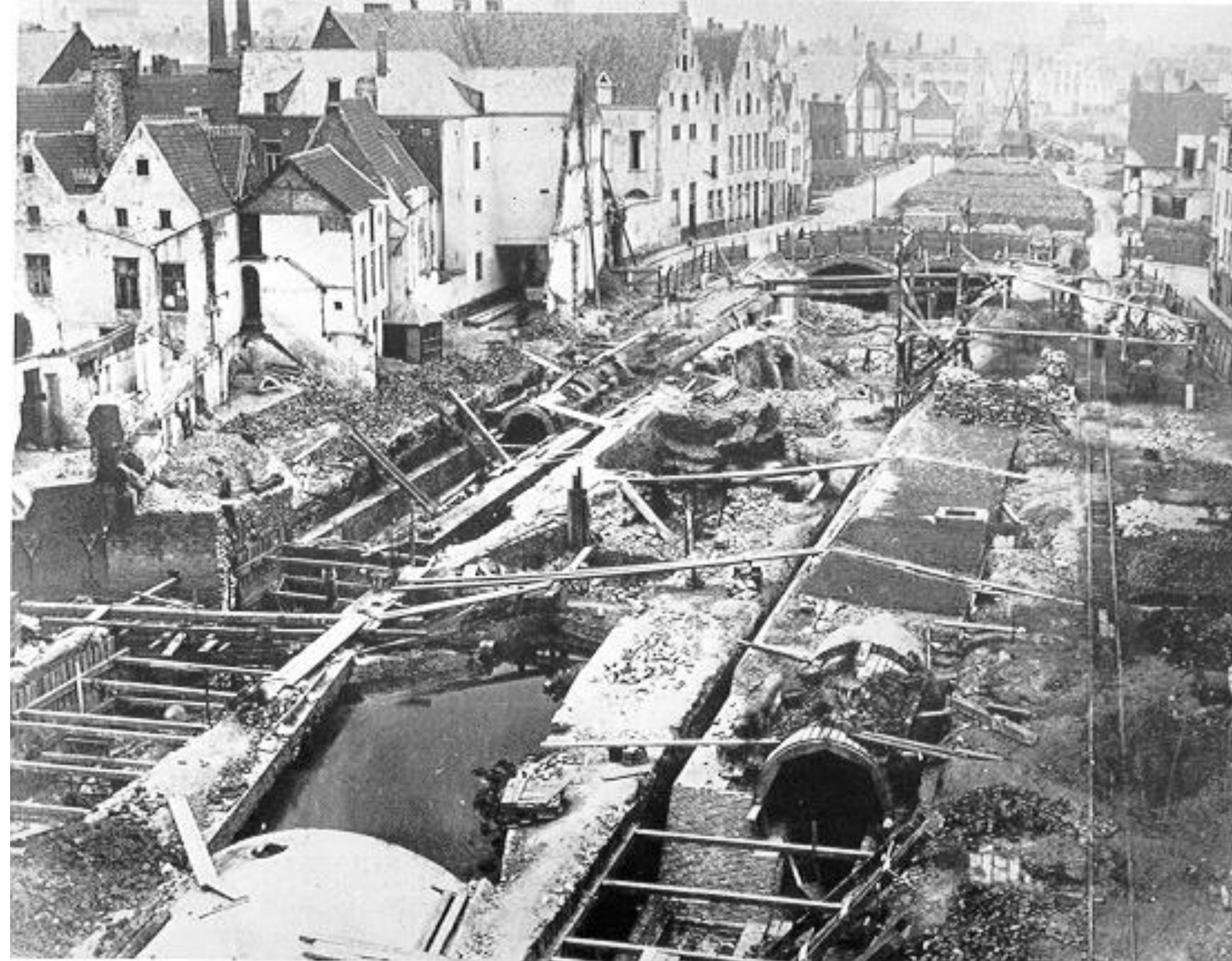
Urban Architecture  
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# Studio Theme:

## Last Green in Town



The covering of the Senne in Brussels, ca 1867 [https://www.facebook.com/843159335757753/photos/?tab=album&album\\_id=1234867143253635](https://www.facebook.com/843159335757753/photos/?tab=album&album_id=1234867143253635)



# Studio Theme:

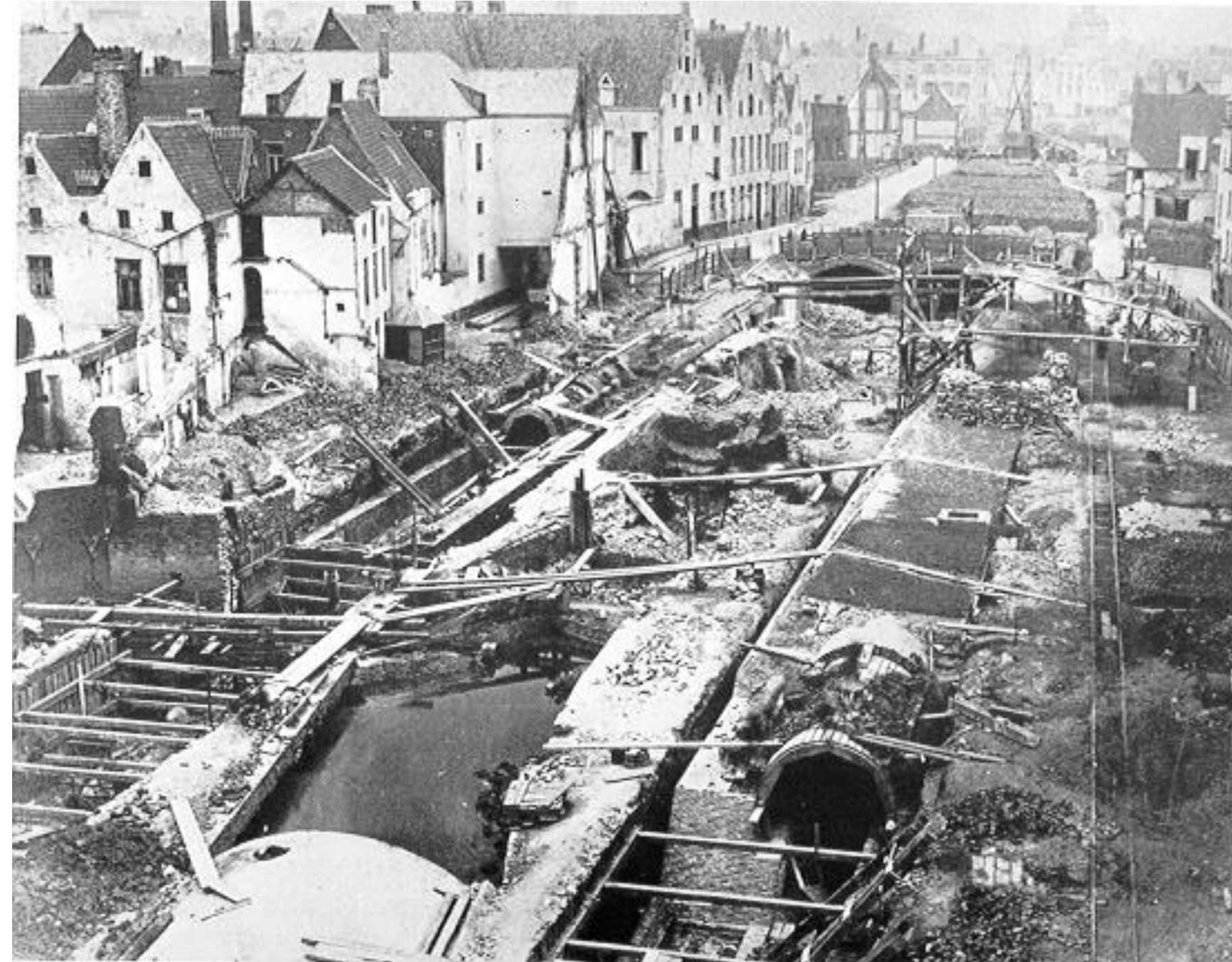
## Last Green in Town

Anthropocene

=

the current geological age, viewed as the period during which human activity has been the dominant influence on climate and the environment.

"some geologists argue that the Anthropocene began with the Industrial Revolution"



The covering of the Senne in Brussels, ca 1867 [https://www.facebook.com/843159335757753/photos/?tab=album&album\\_id=1234867143253635](https://www.facebook.com/843159335757753/photos/?tab=album&album_id=1234867143253635)



# Studio Theme: Last Green in Town



Plac Nowego Sąsiedztwa, Plac Defilad, 2022, fot. Sisi Cecylia



# Studio Theme:

## Last Green in Town

Regeneration

=

the act of improving a place or system, especially by making it more active or successful

=

the act of something growing or being grown again



Plac Nowego Sąsiedztwa, Plac Defilad, 2022, fot. Sisi Cecylia

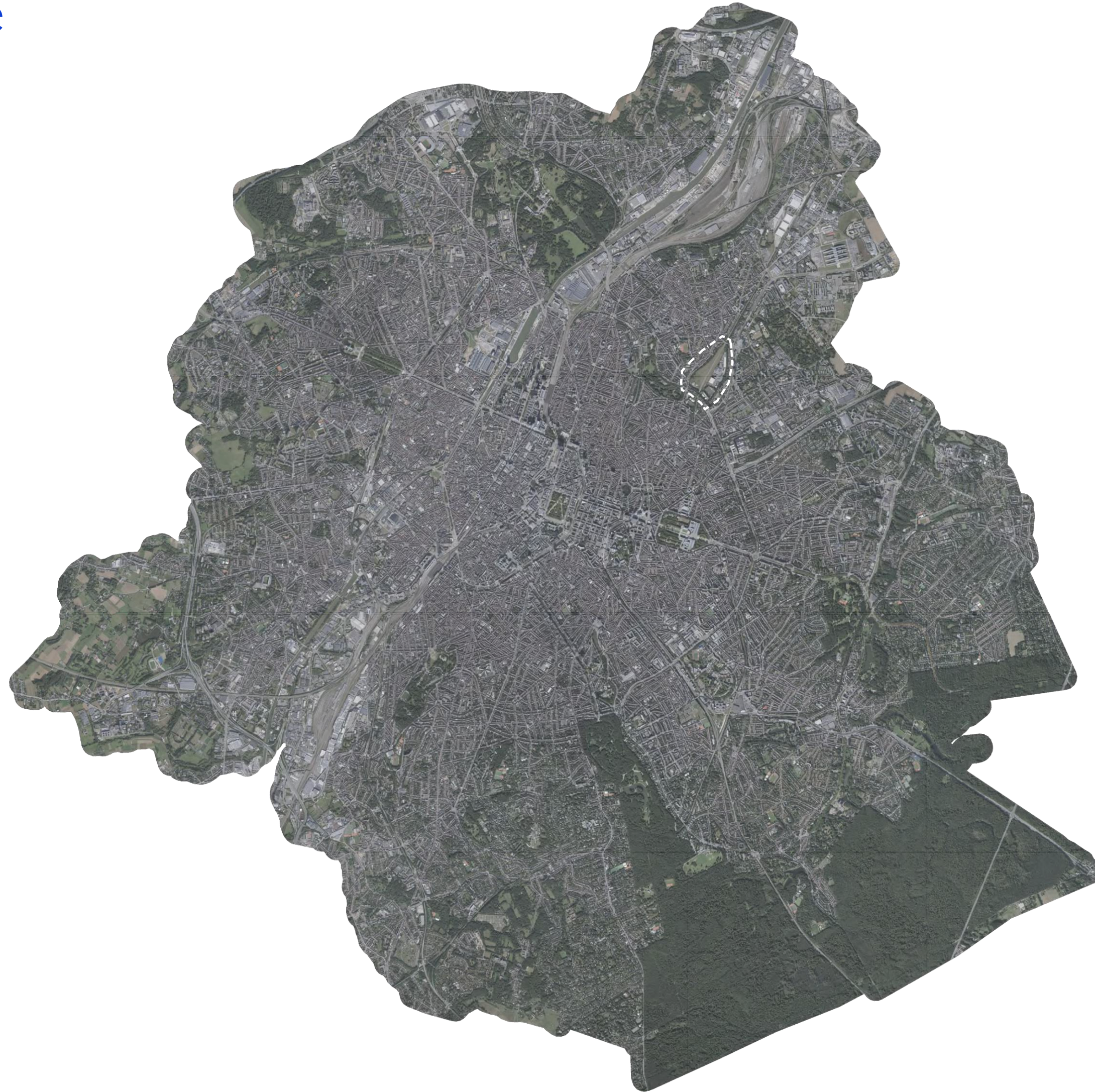


# Pond to Pool

the friche  
the pond  
masterplan  
time and process  
materials  
the pool

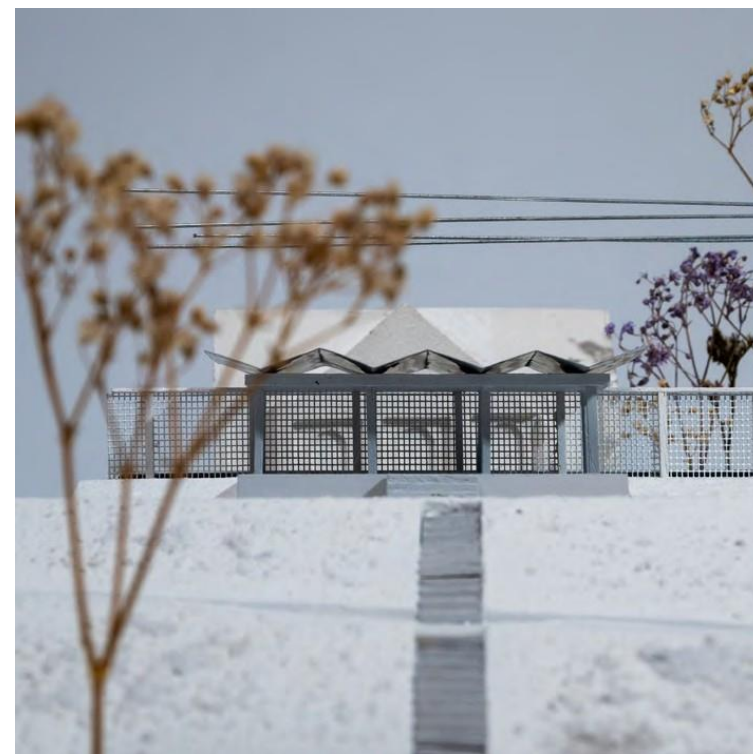


# Brussels & Friche





# Public green space?



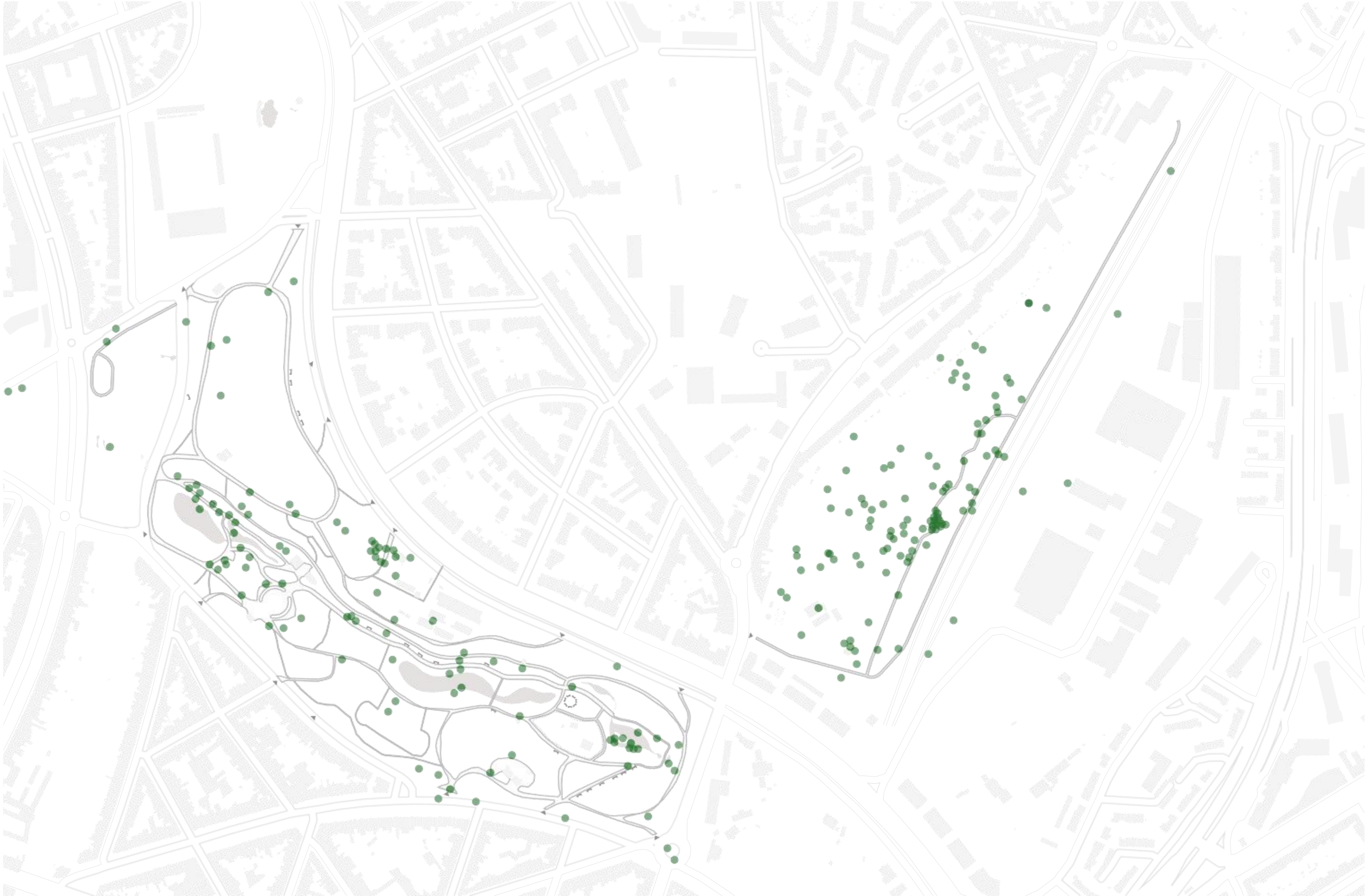


# Josaphat & Josaphat





# Josaphat & Josaphat





# Non-human actors of the Friche









# Non-human inhabitants of the Friche



Bastardwerderik - *Epilobium tetragonum*



Chamomile - *Matricaria chamomilla*



Cherry plum - *Prunus cerasifera*



Cobra - *Rubus ulmifolius*



Common evening primrose - *Oenothera biennis*



Common Ragwort - *Jacobaea vulgaris*



Common trefoil - *Lotus corniculatus*



Creeping thistle - *Crisium arvense*



Dead Spear thistle - *Cirsium vulgare*



Dog rose - *Rosa canina*



Early Goldenrod - *Solidago gigantea*



Empire blue - *Buddleja davidii*



Flax beak - *Linaria vulgaris*



Lucerne - *Medicago sativa*



Manna ash - *Fraxinus ornus*



Mugwort - *Artemisia vulgaris*



Spear thistle - *Cirsium vulgare*



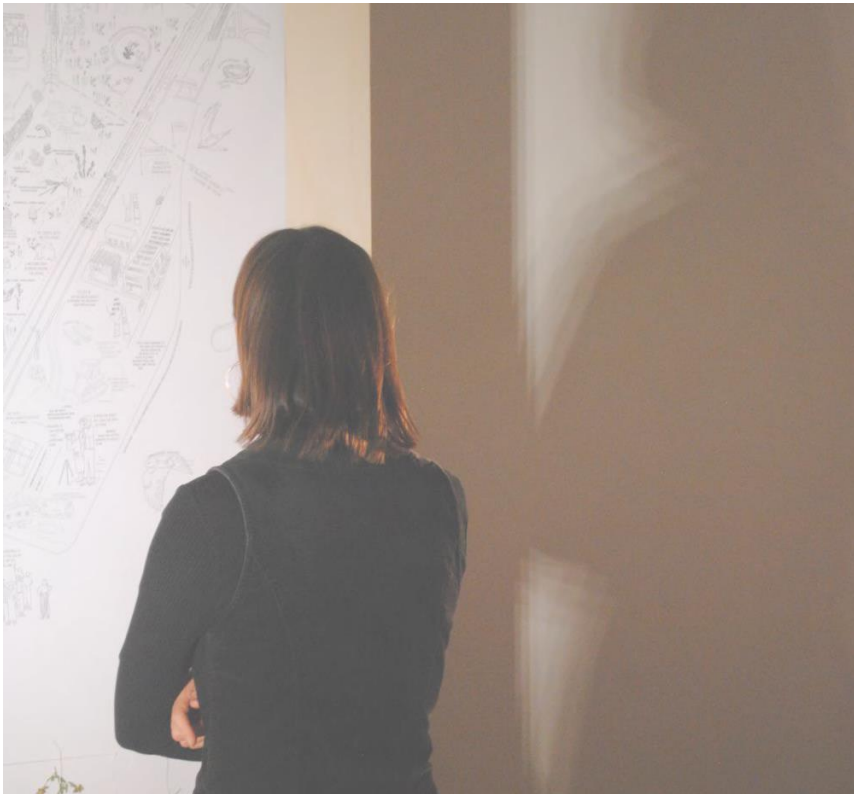
Sweet yellow clover - *Melilotus officinalis*







# Participation



Last green in town exhibition



# Blue-Green at the Friche







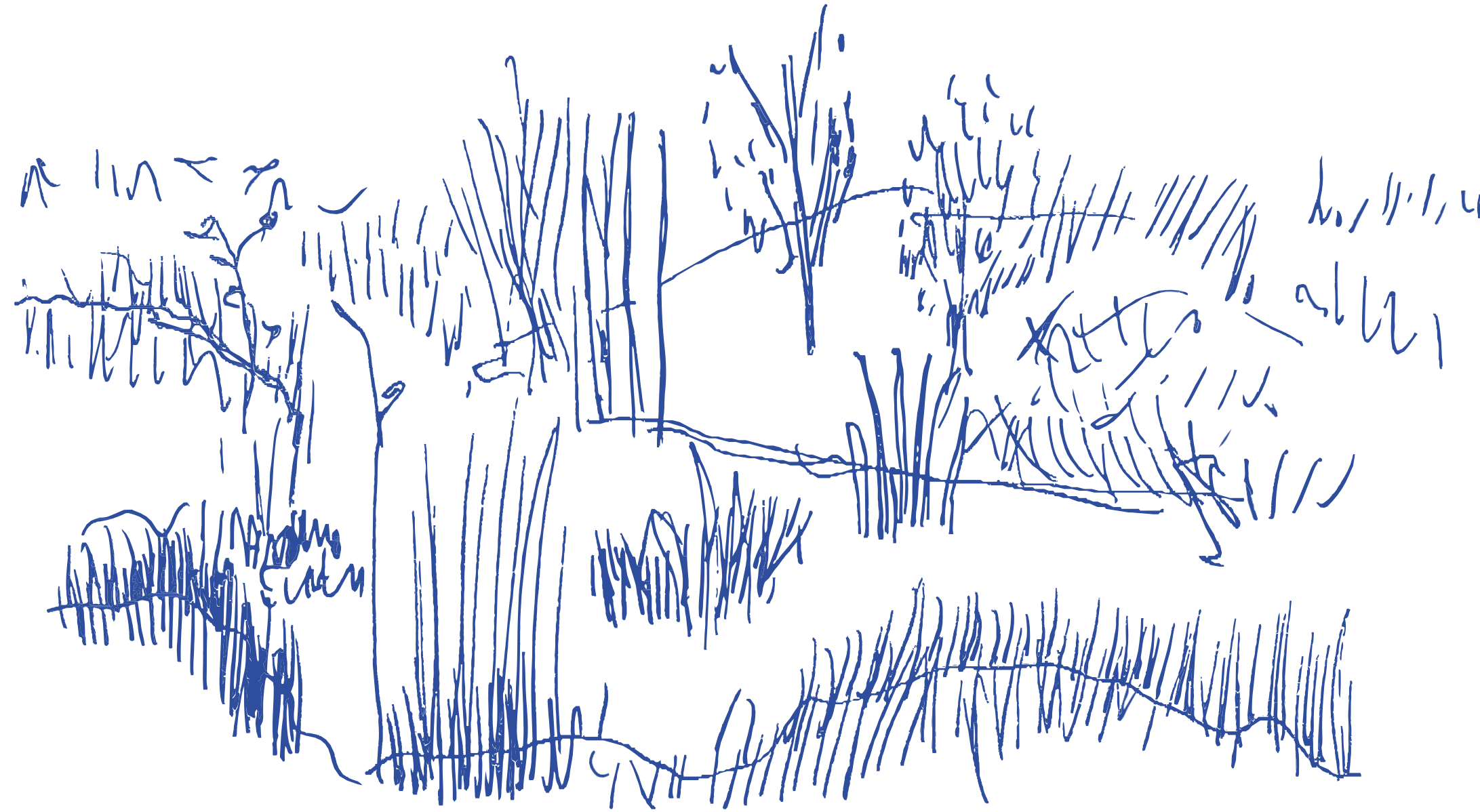
09.2017







# Research Question



What are the natural principles of Josaphat Friche's water pond, and how can they be used as inspiration for future architectural designs that promote environmental well-being and biodiversity?

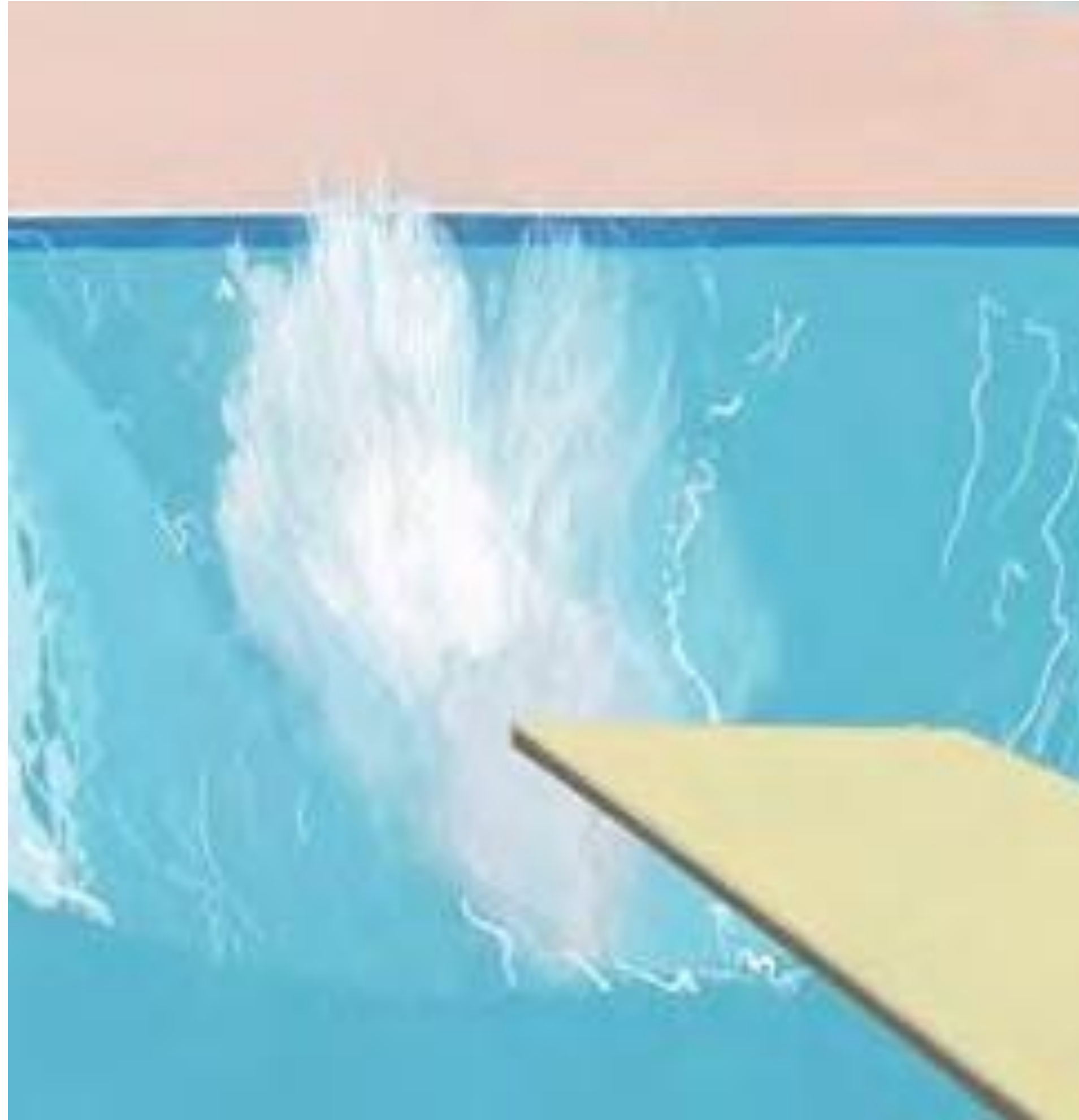


# The pond



A Bigger Splash by David Hockney







# Changed perspective





# Approaching the pond



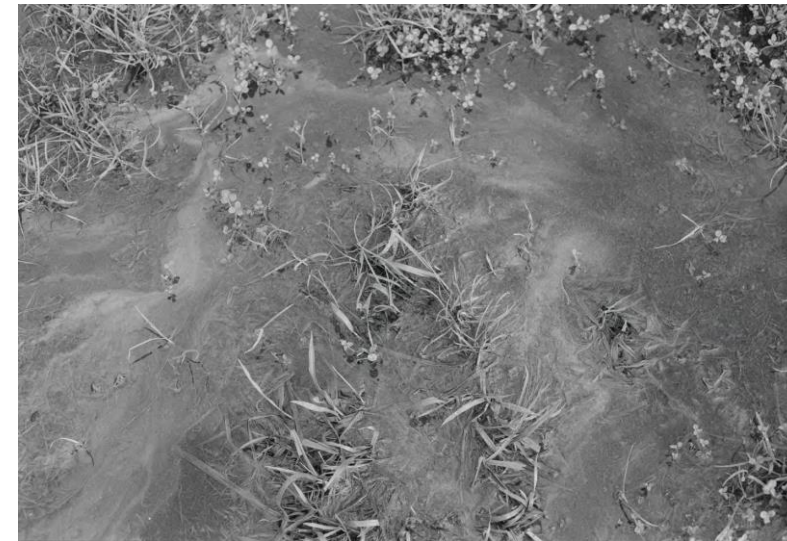
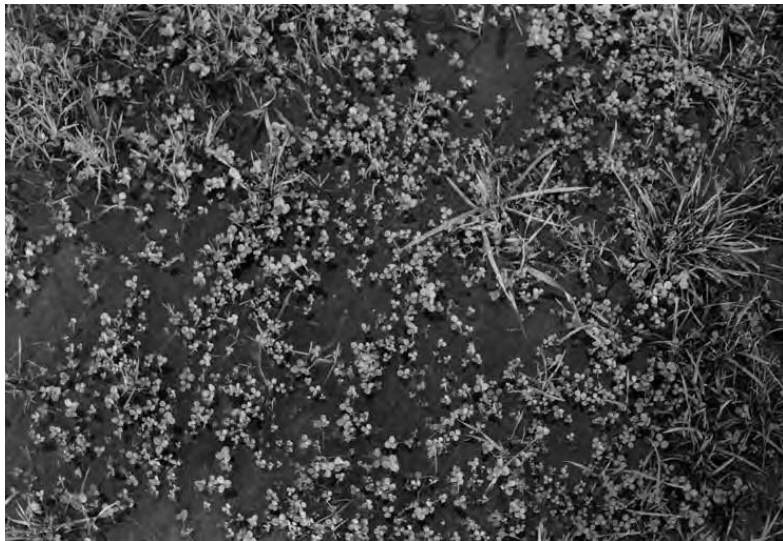
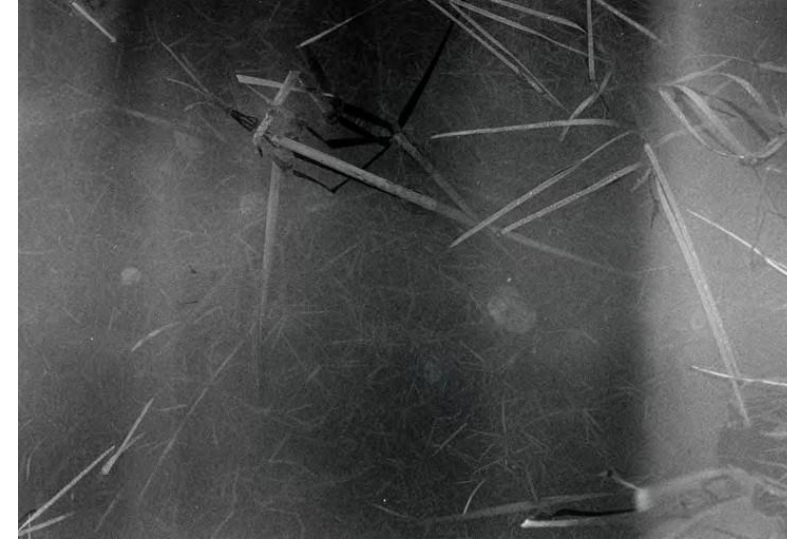


# Closer to the pond





# The wetland



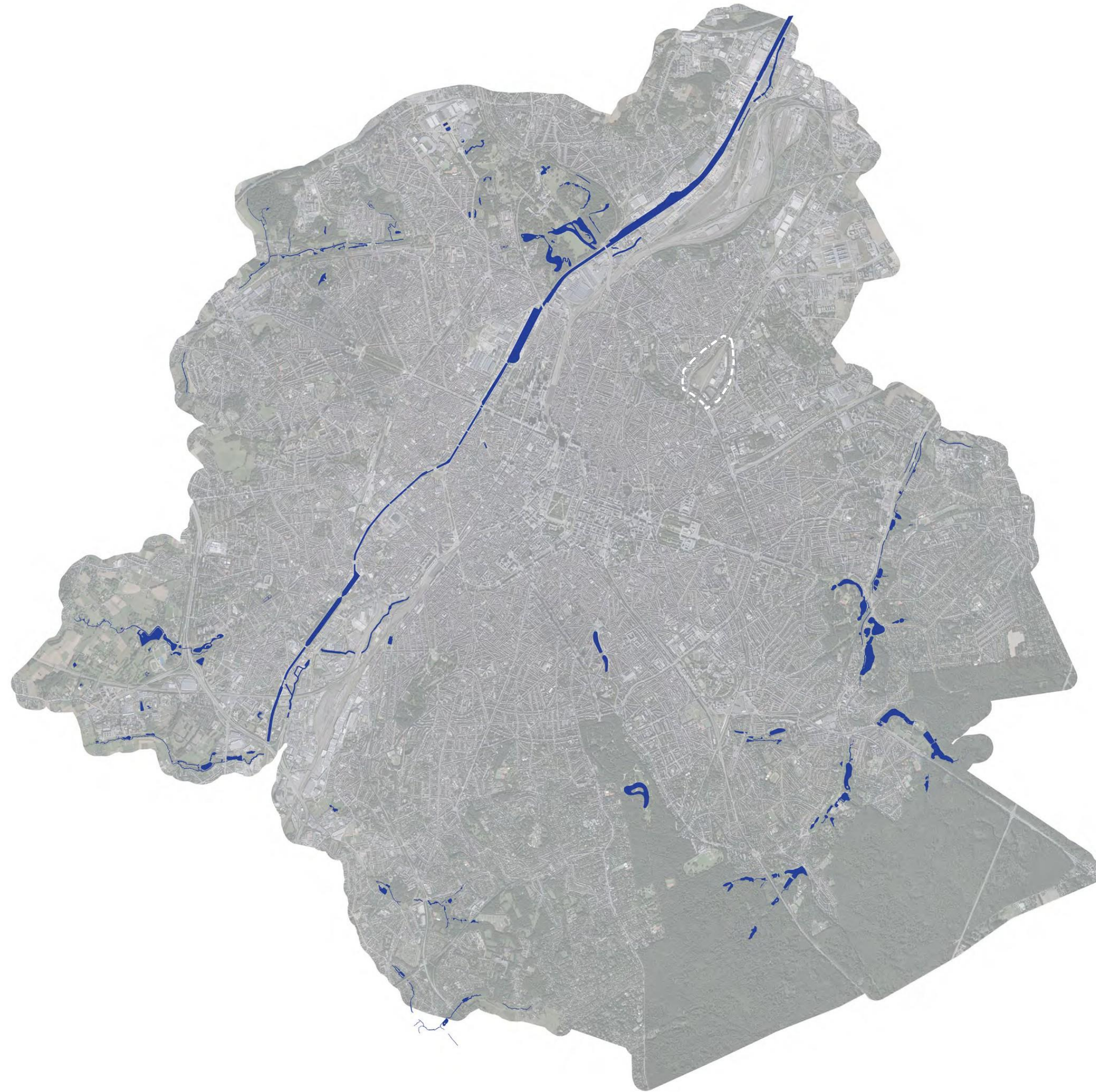


# The aura of the pond



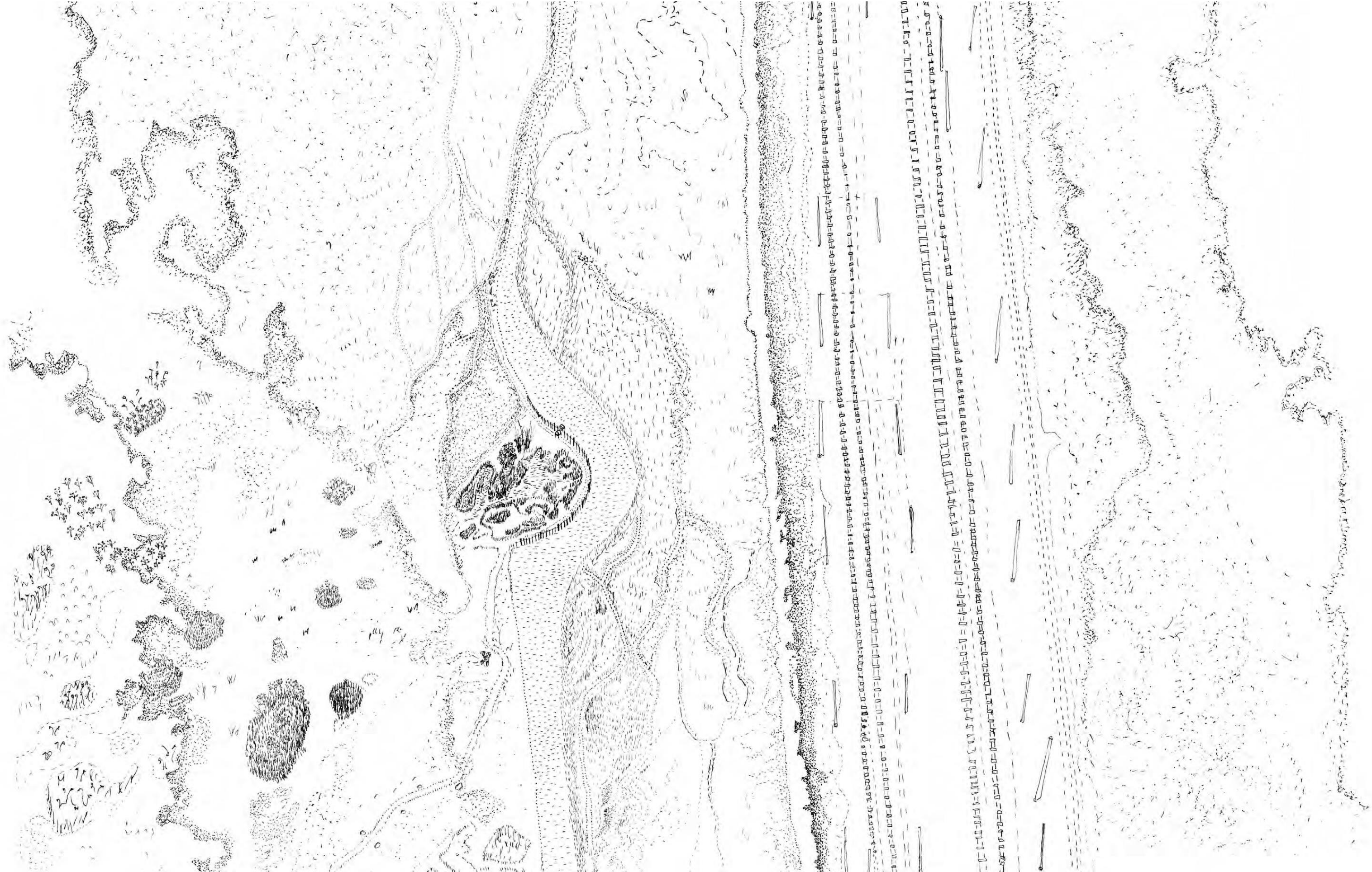


# Water in the city



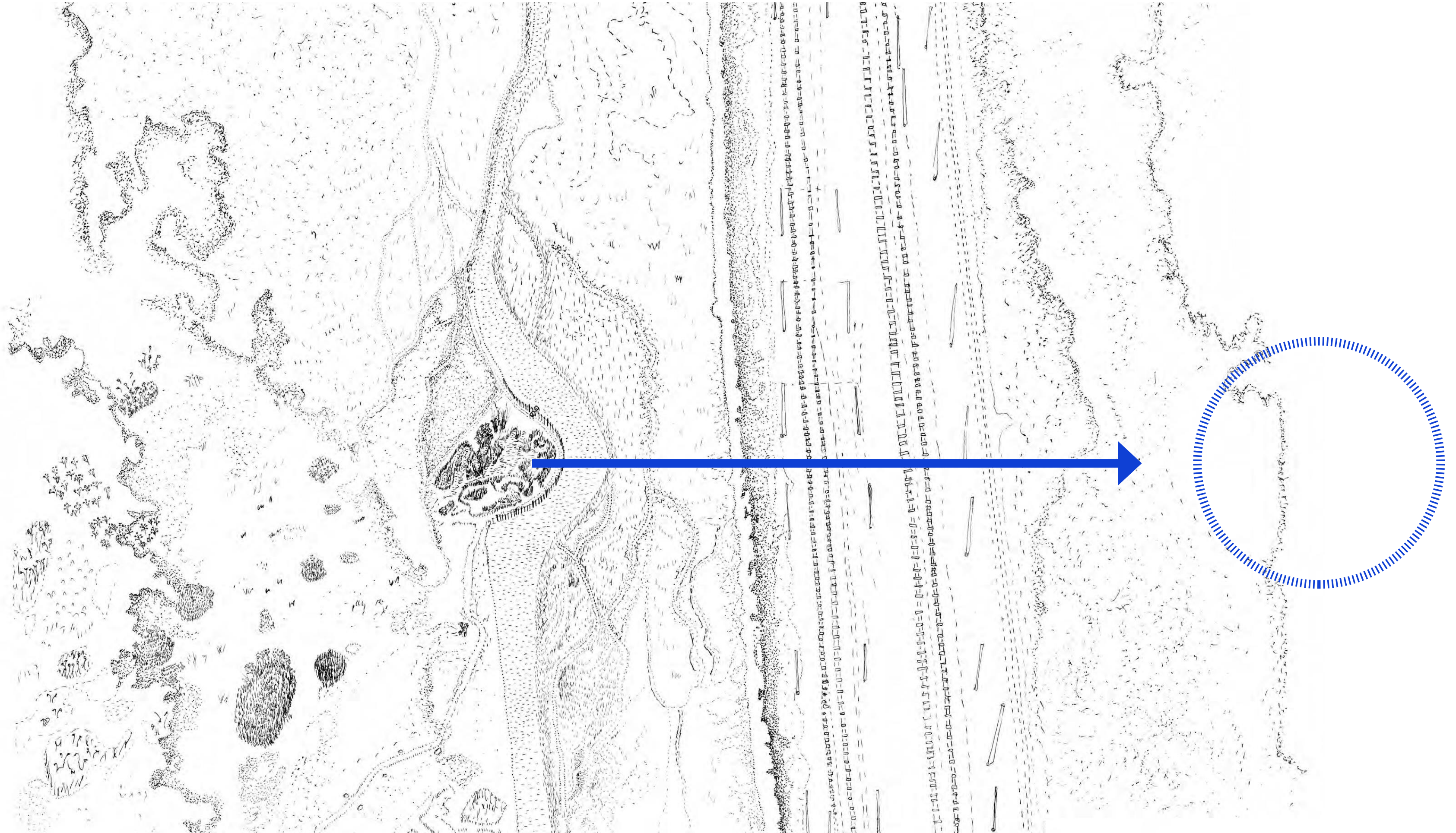


# Mapping the soil





# Mapping the soil





# The need of turning soil into pool

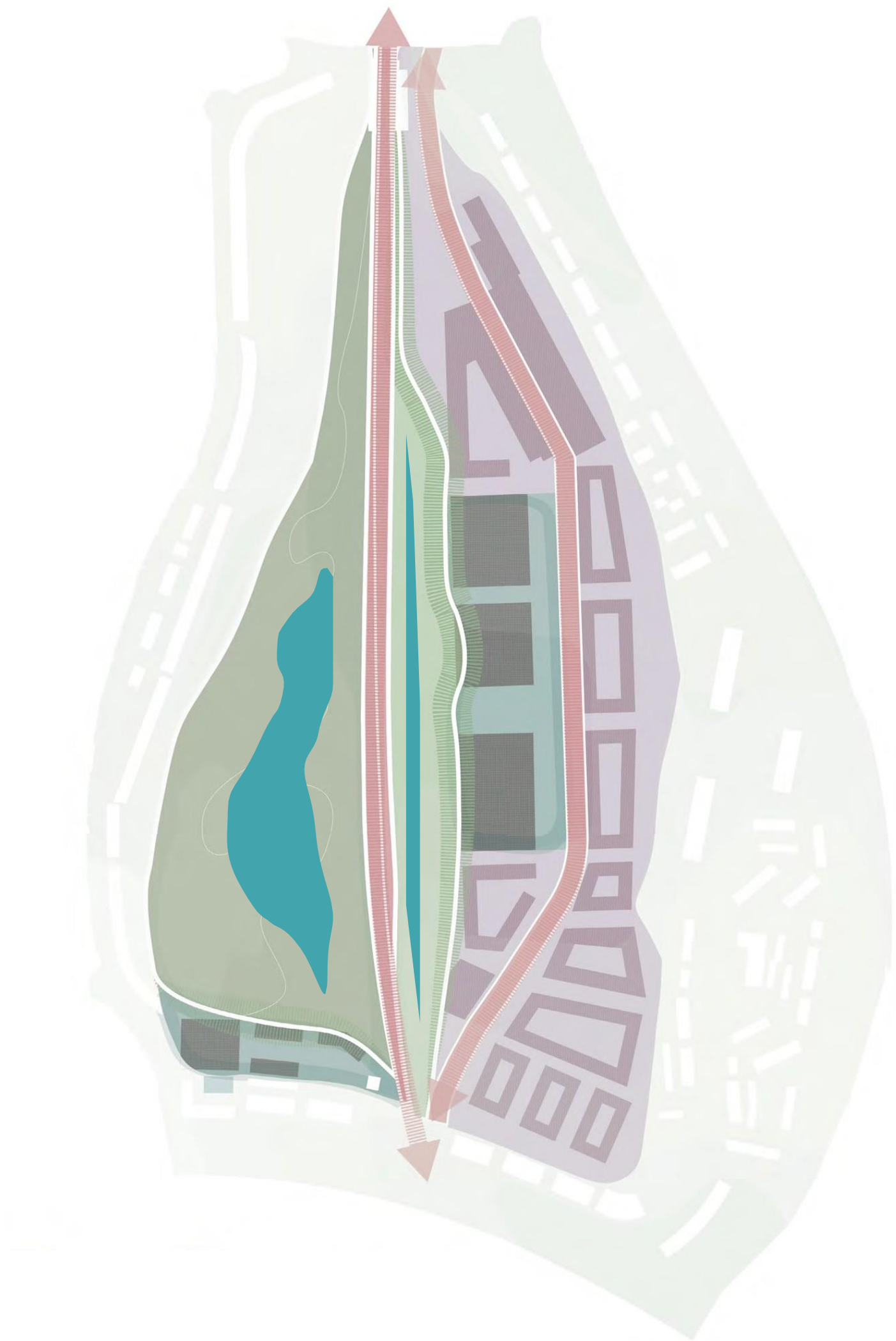












# Recreation







- |  |   |
|--|---|
|  wetland park                     |  projects location   |
|  pocket friche                    |  transition zone     |
|  border of friche                 |  new neighbourhood   |
|  emphasis of the urban masterplan |  connection & border |



# Masterplan

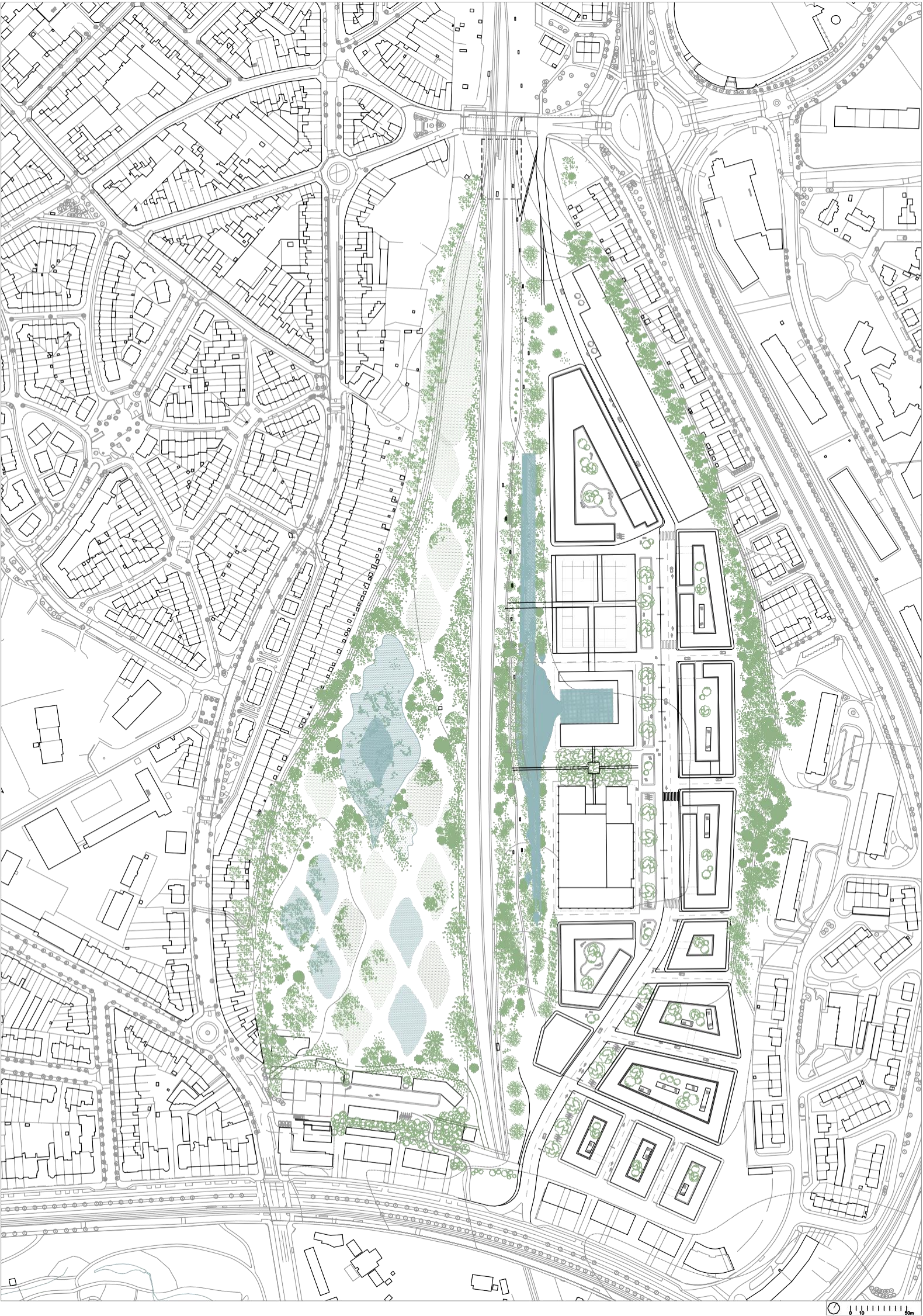




# Masterplan







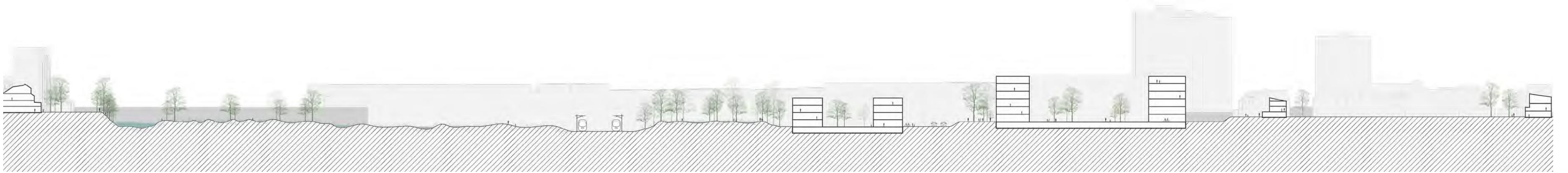
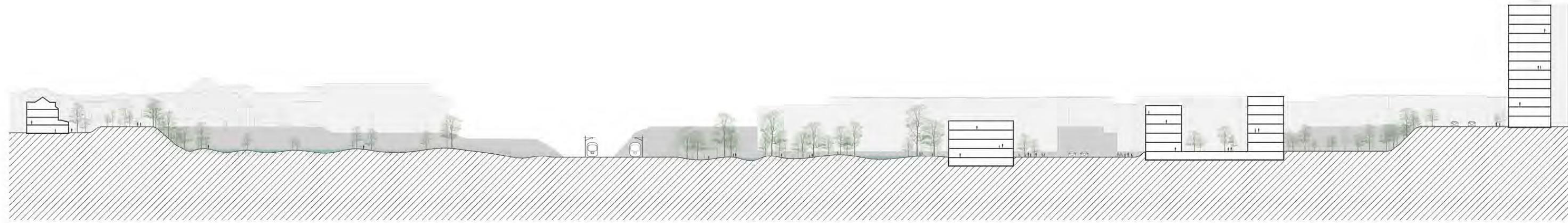


# Masterplan





# Masterplan





# The site





# View from the friche

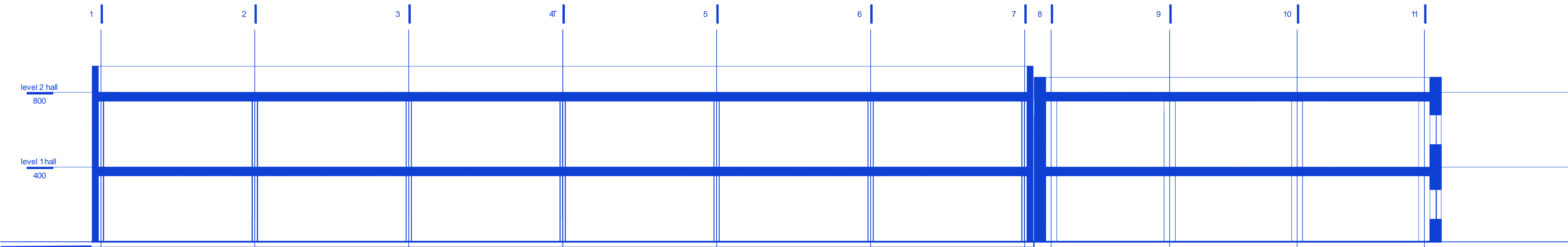
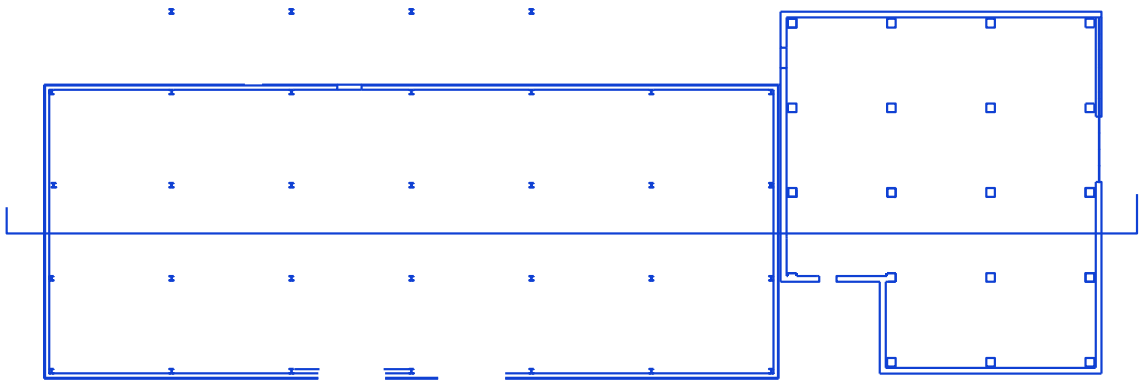




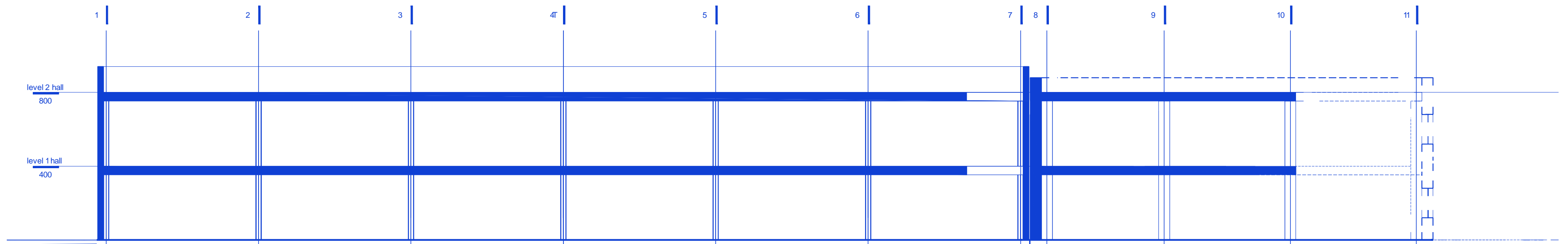
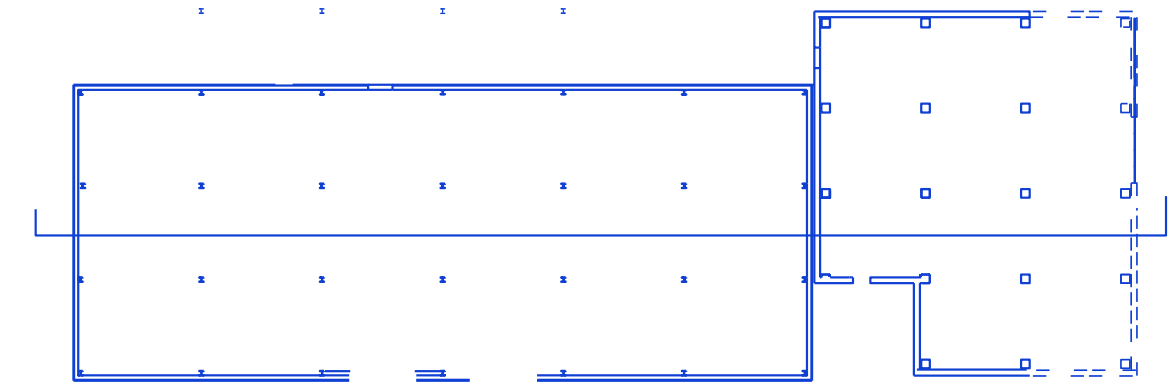
# Existing



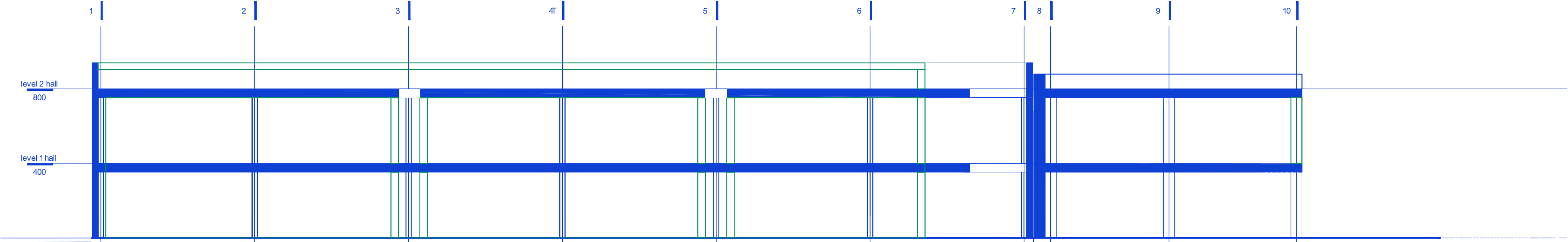
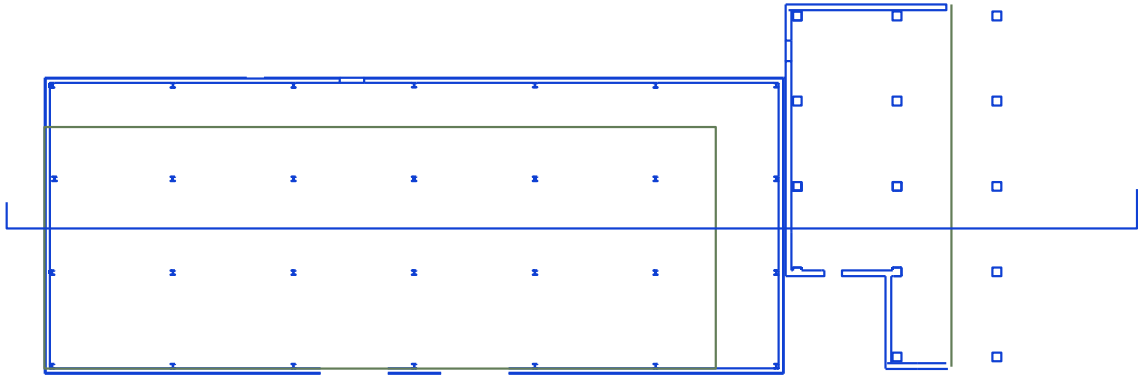






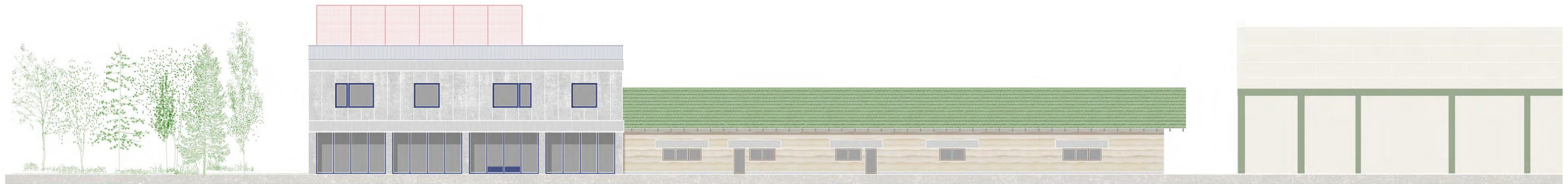








# View from the boulevard



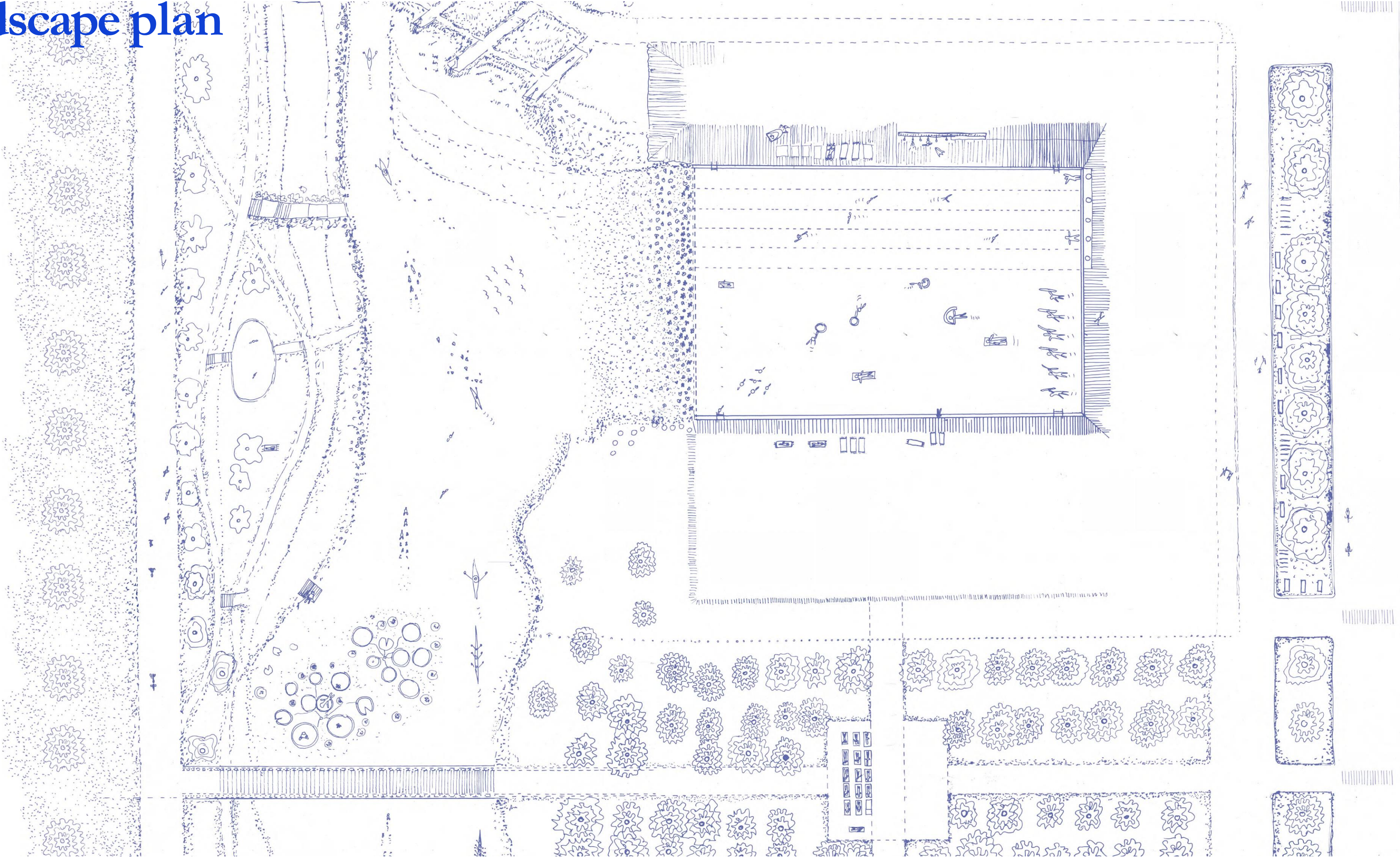


# Wetland





# Landscape plan







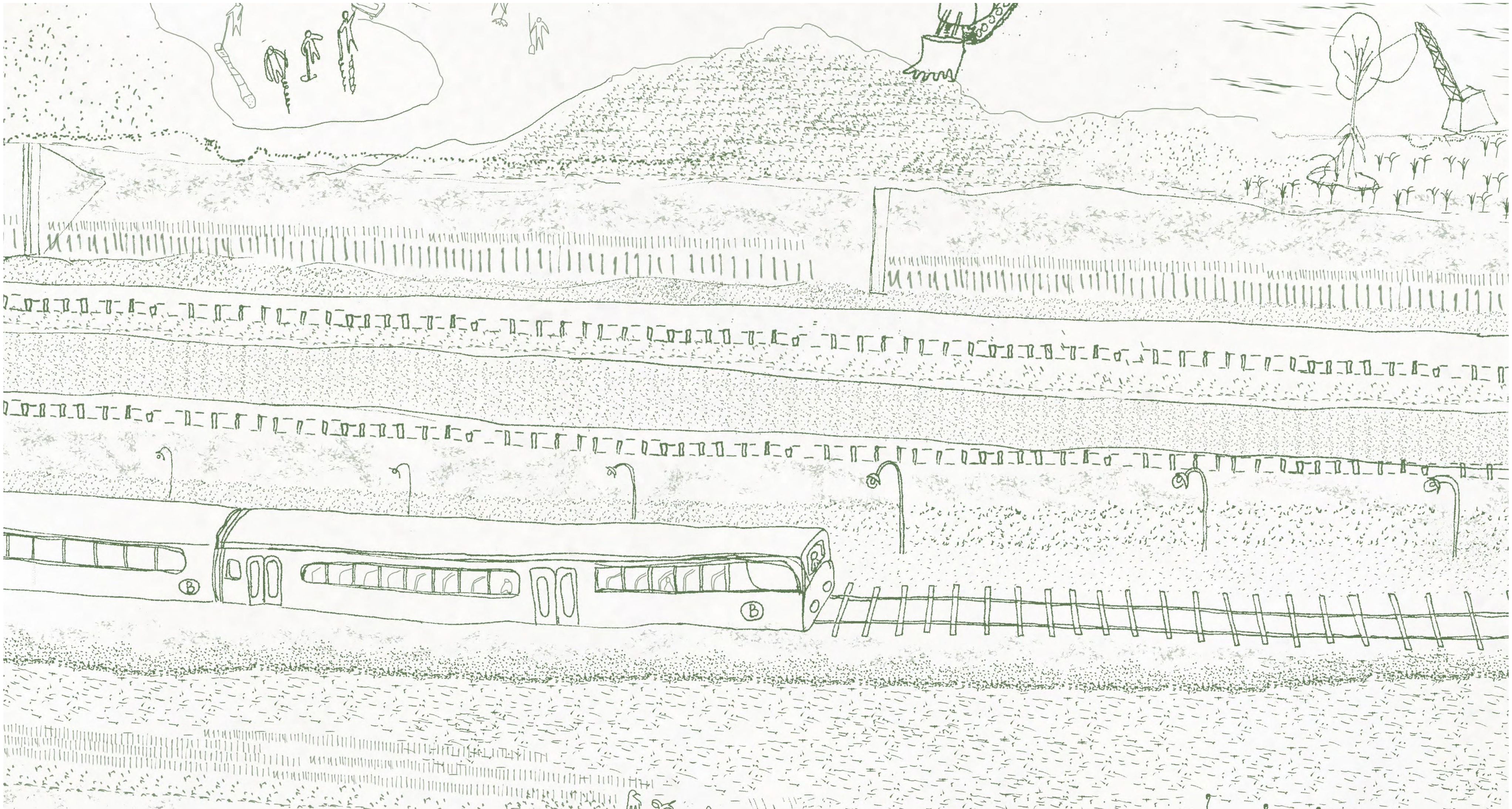








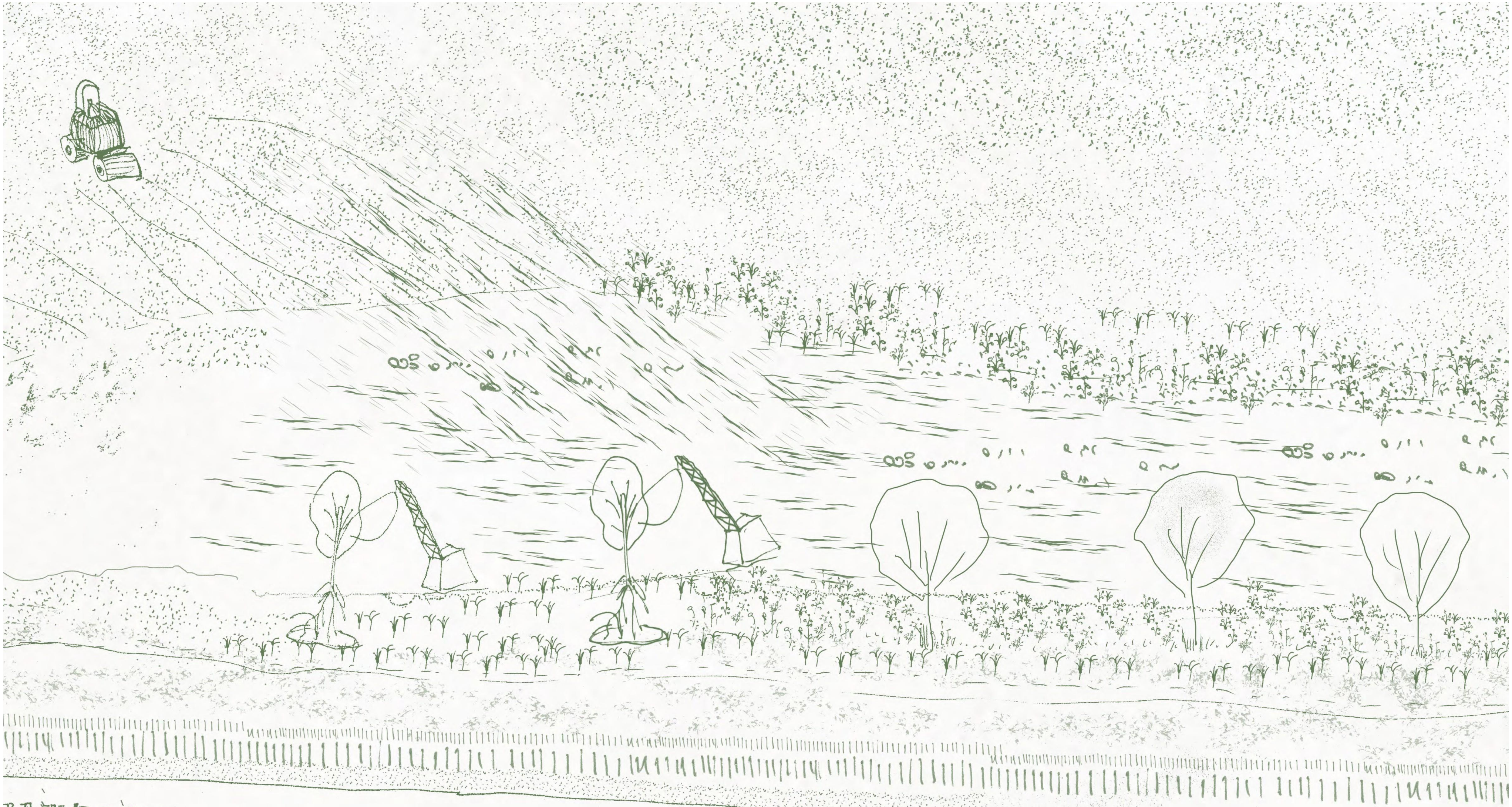




















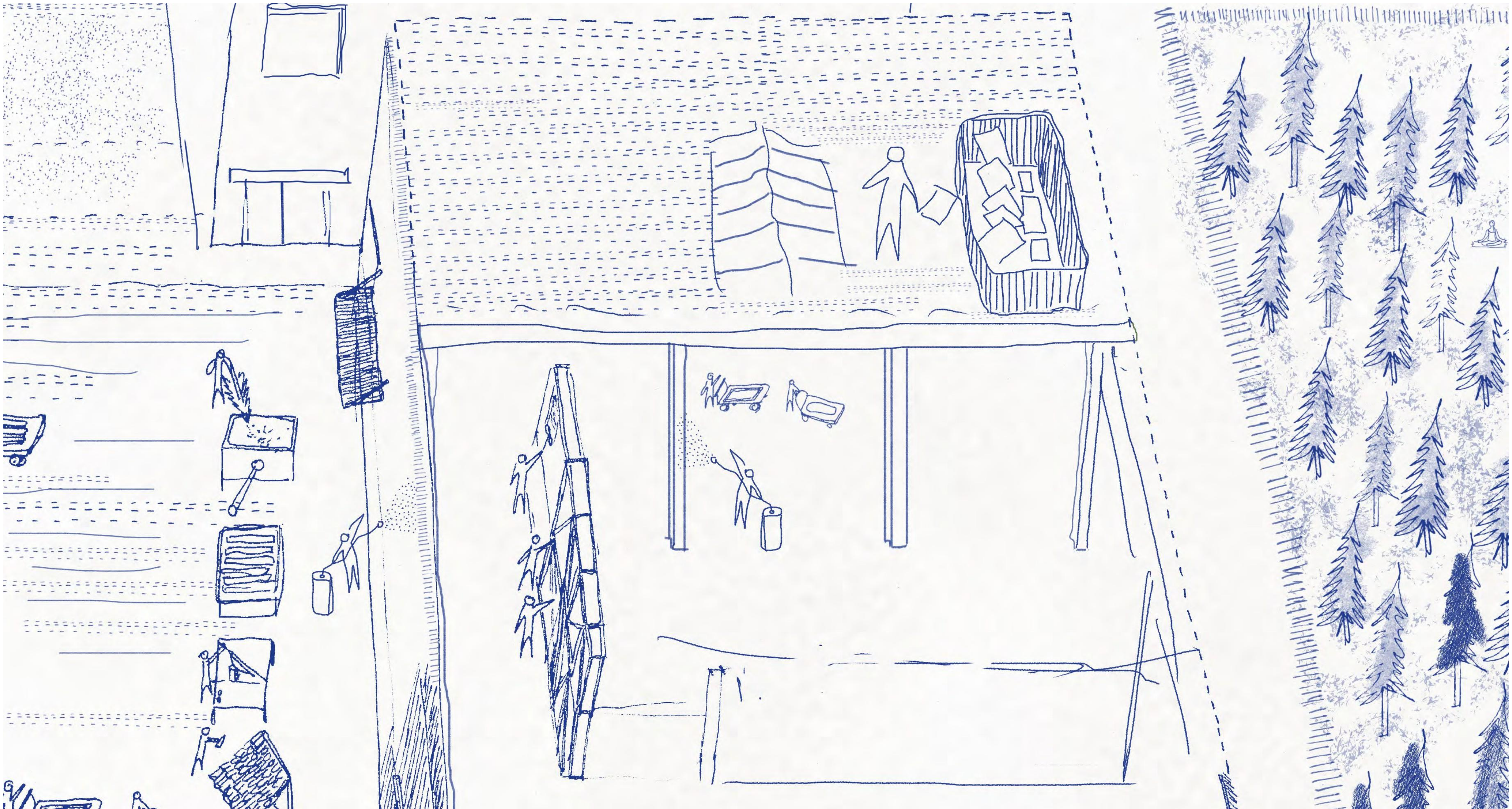




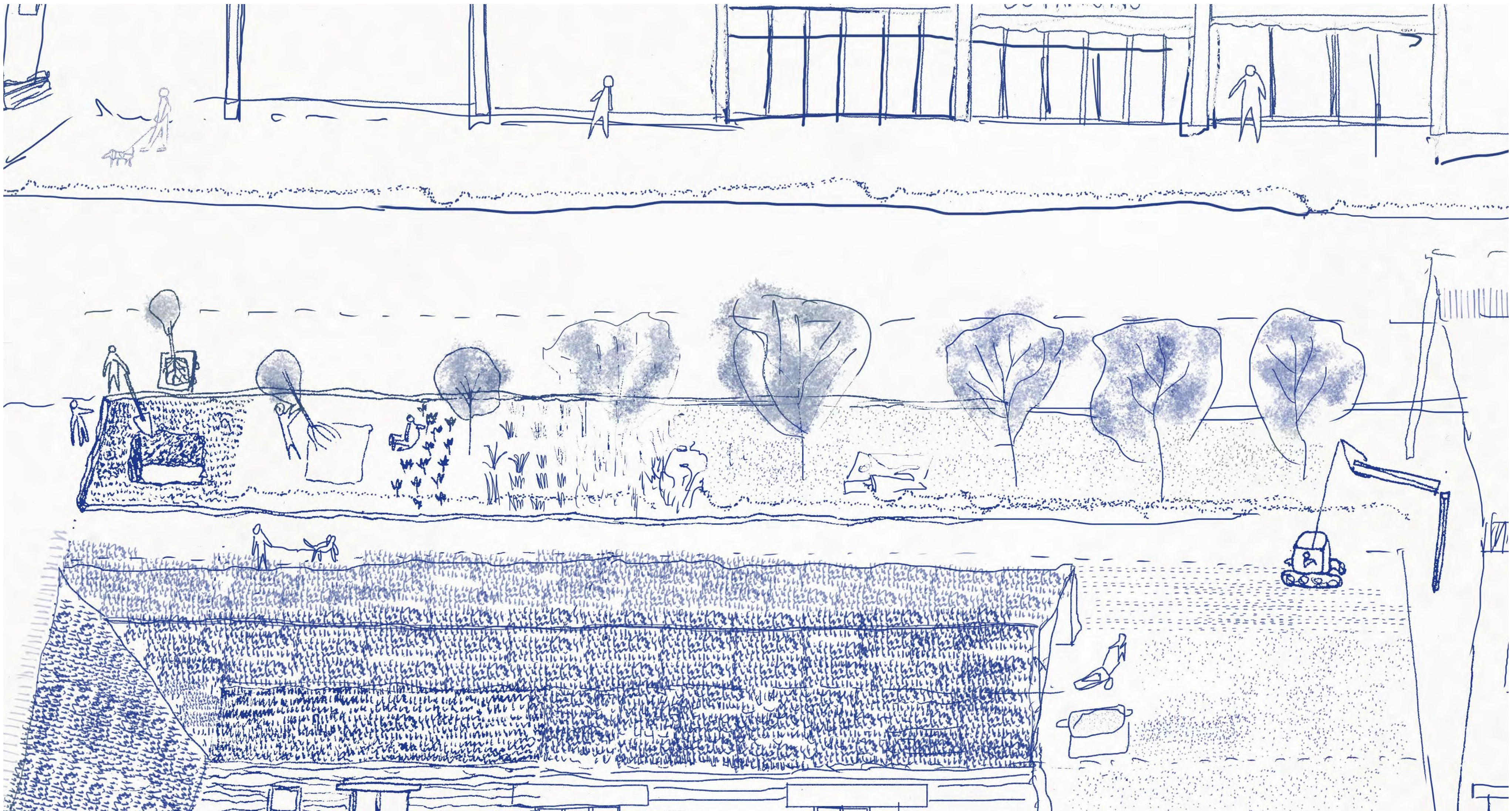






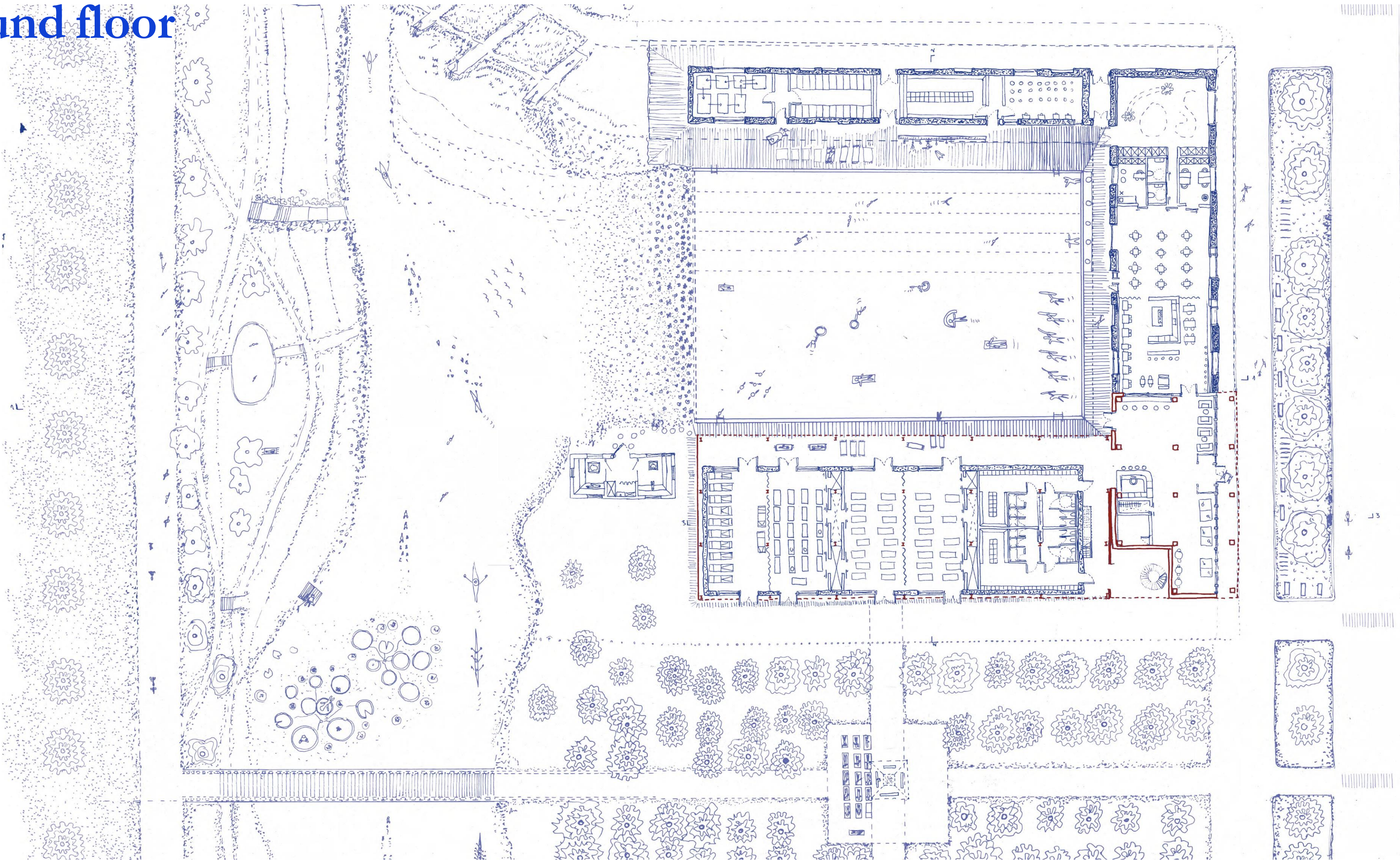








Ground floor





# Entrance





Entrance

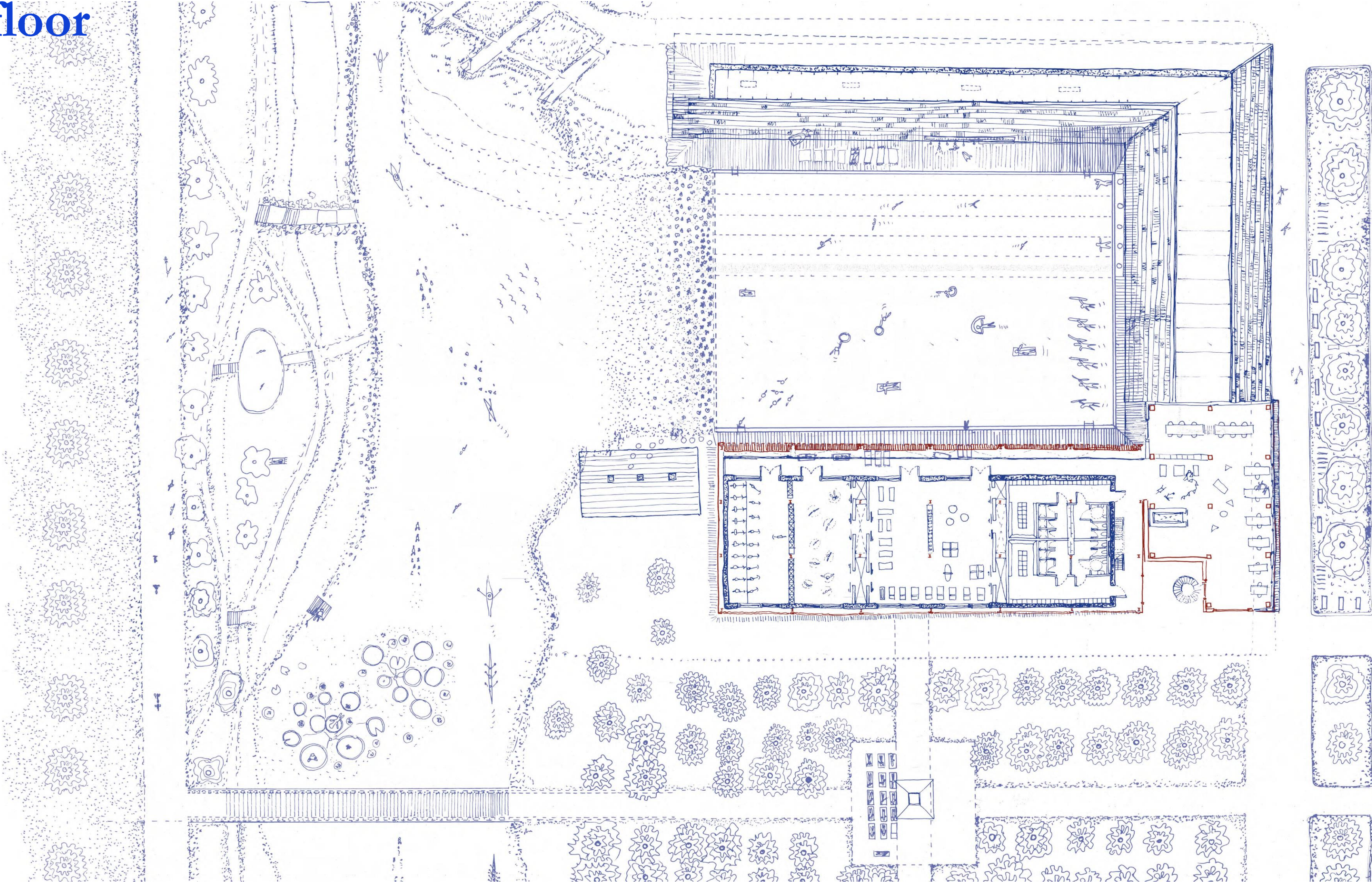








1st floor





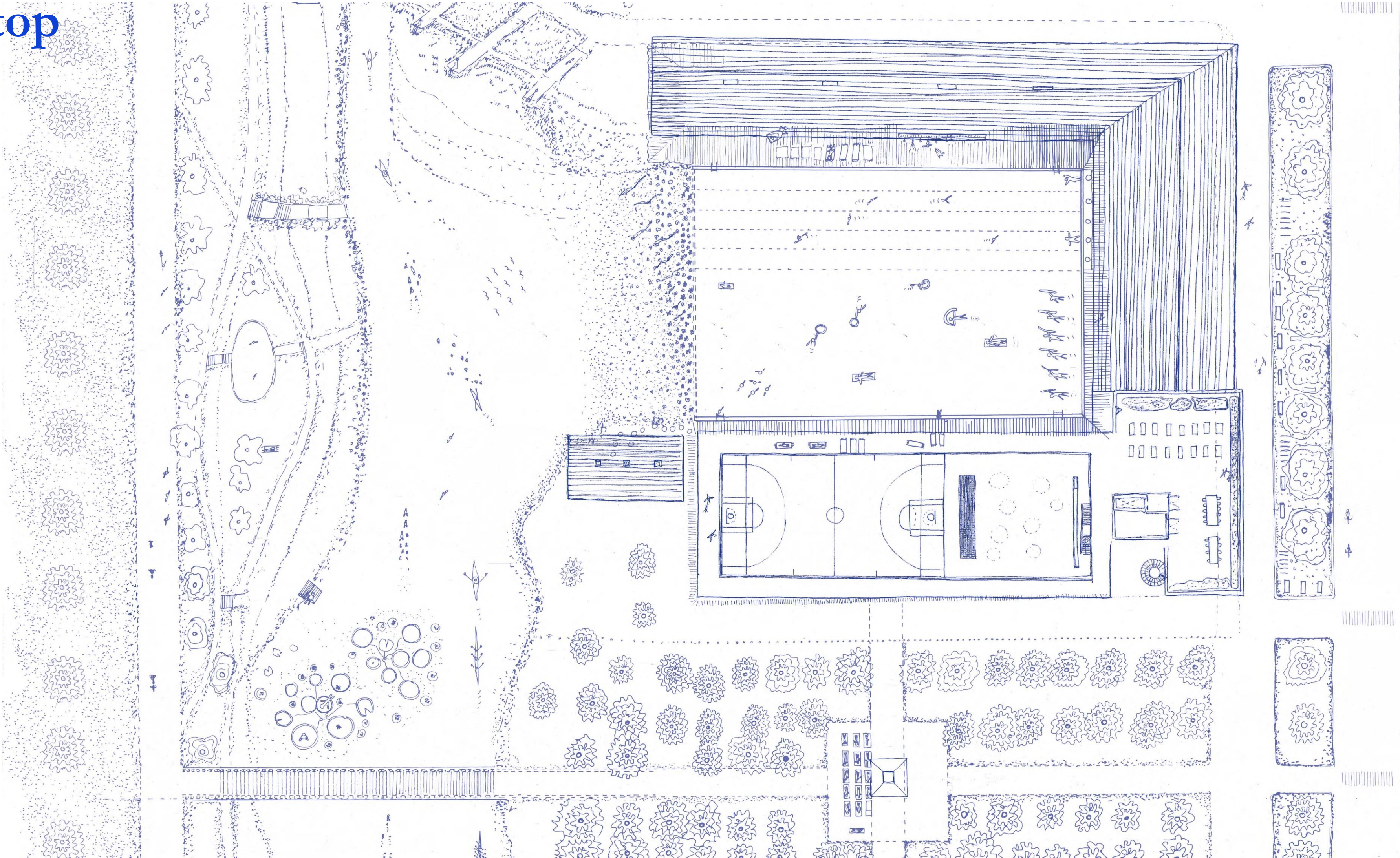








rooftop

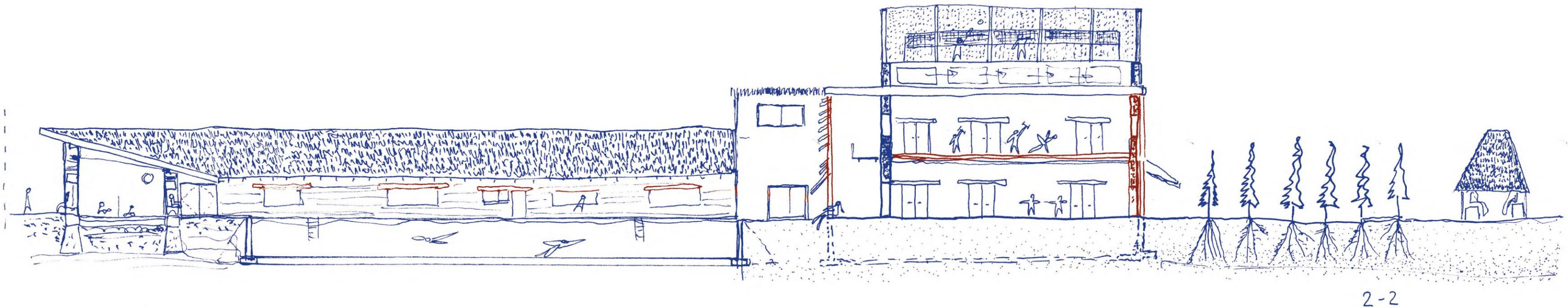
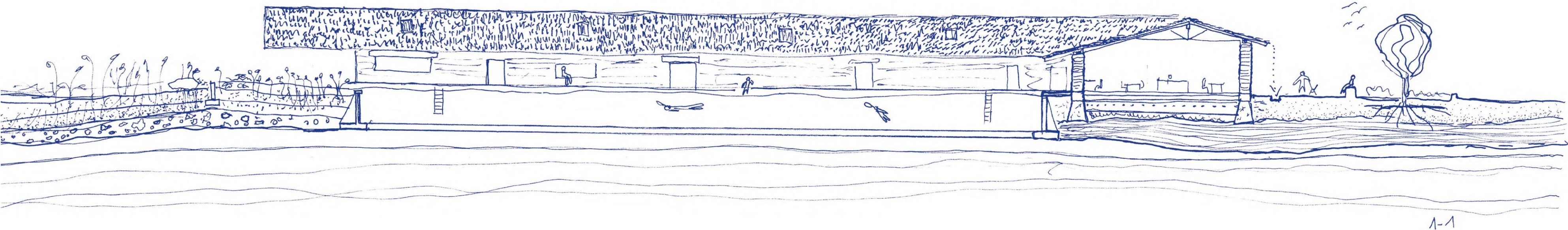








the pool





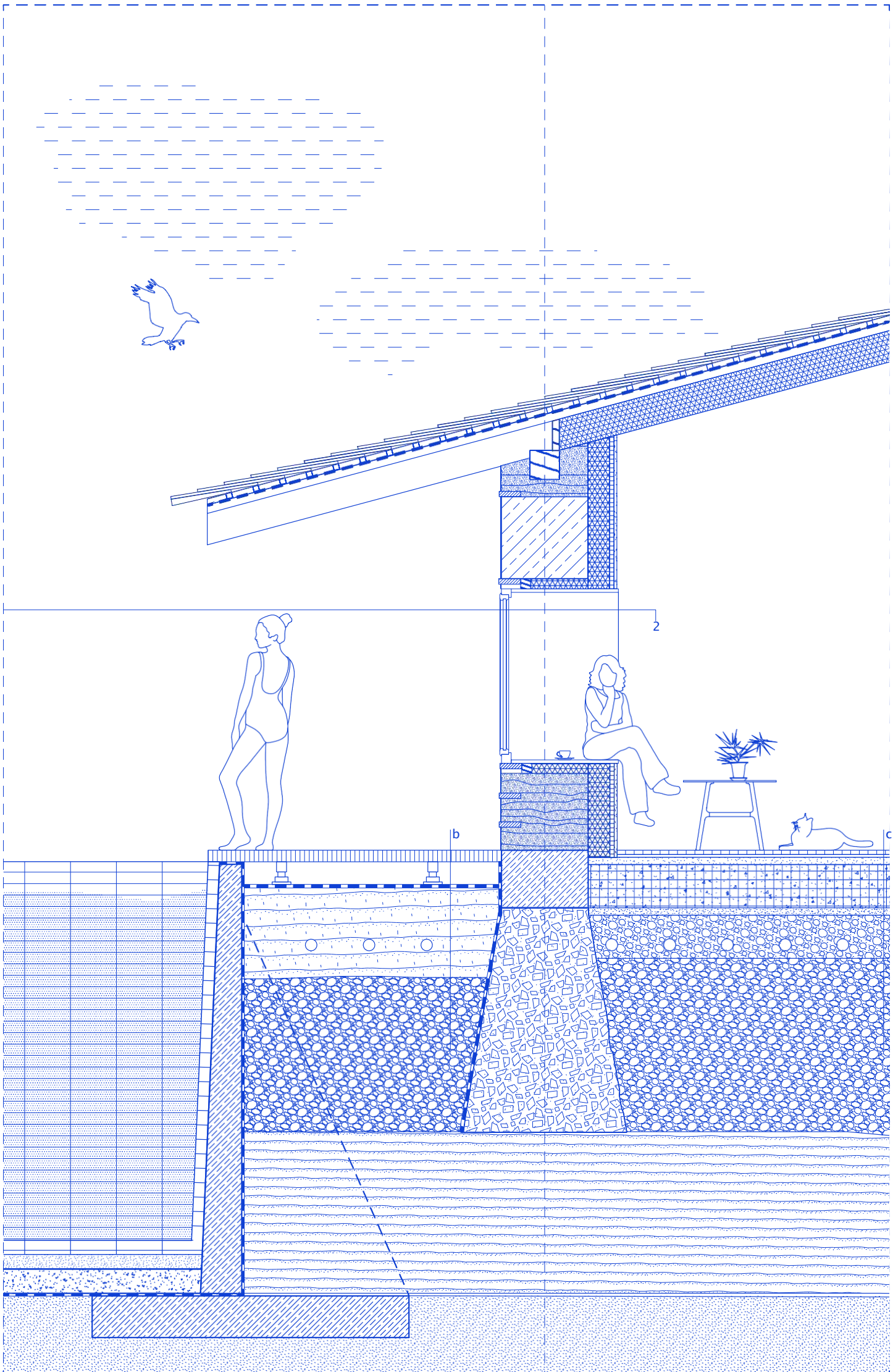
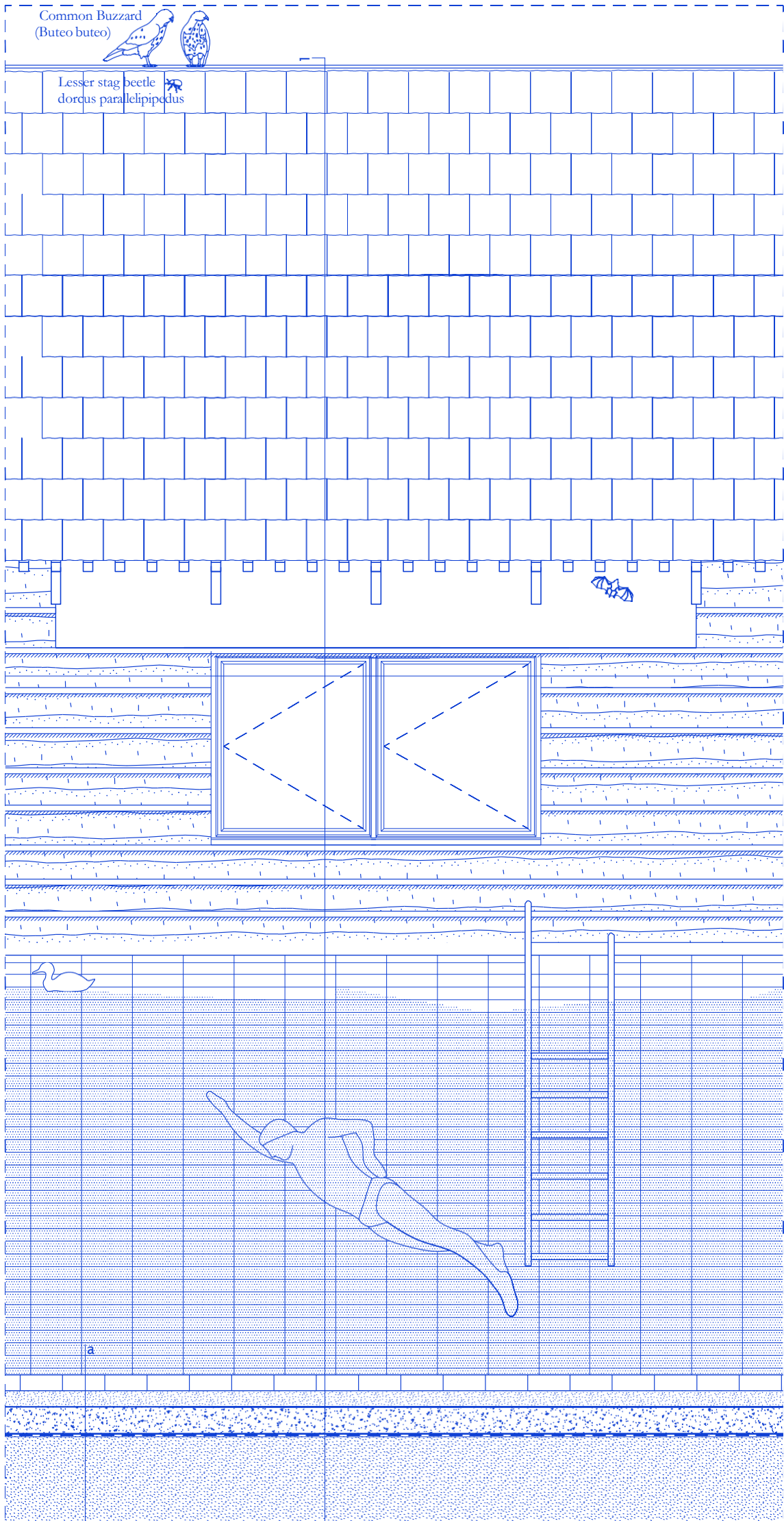




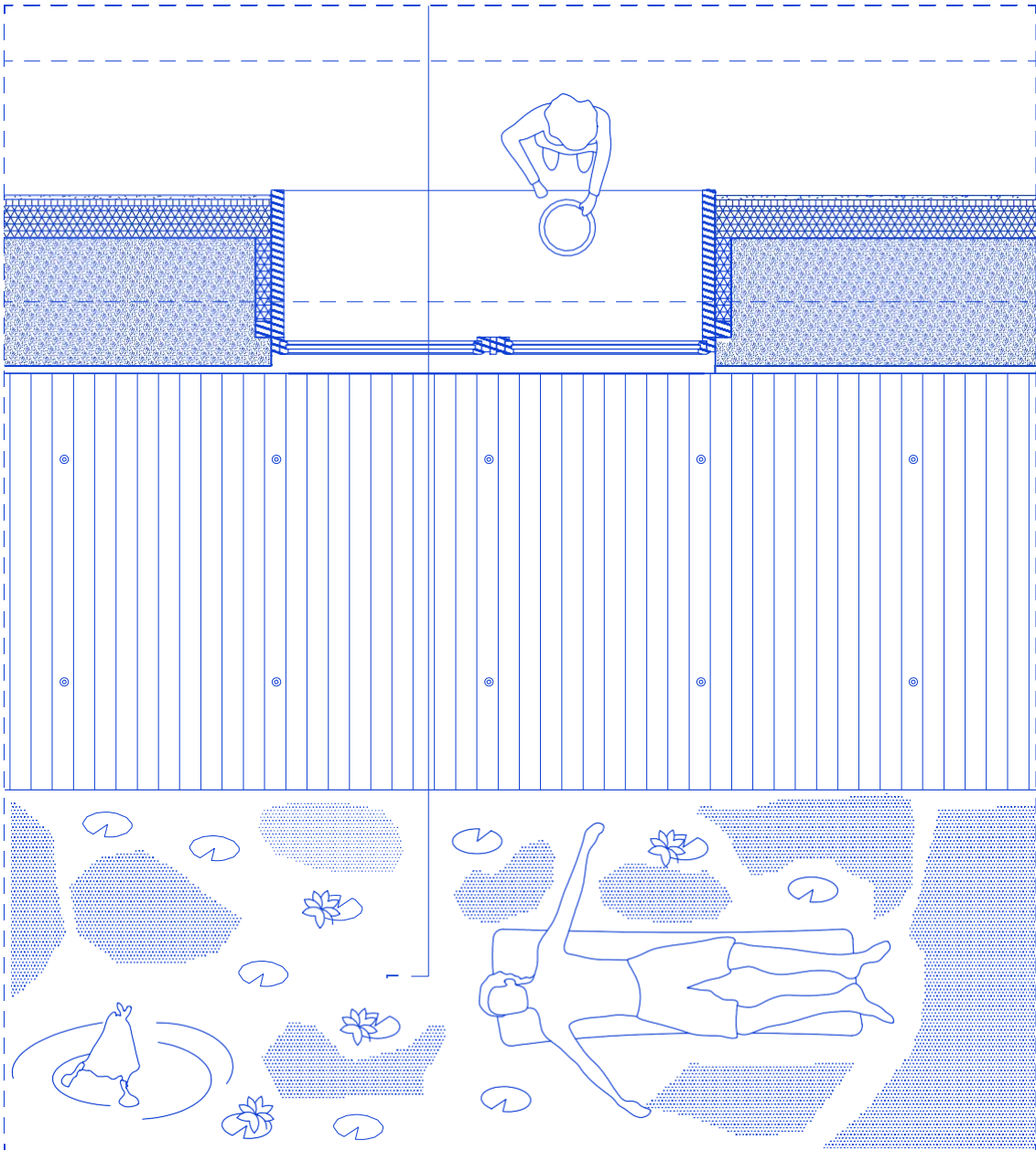
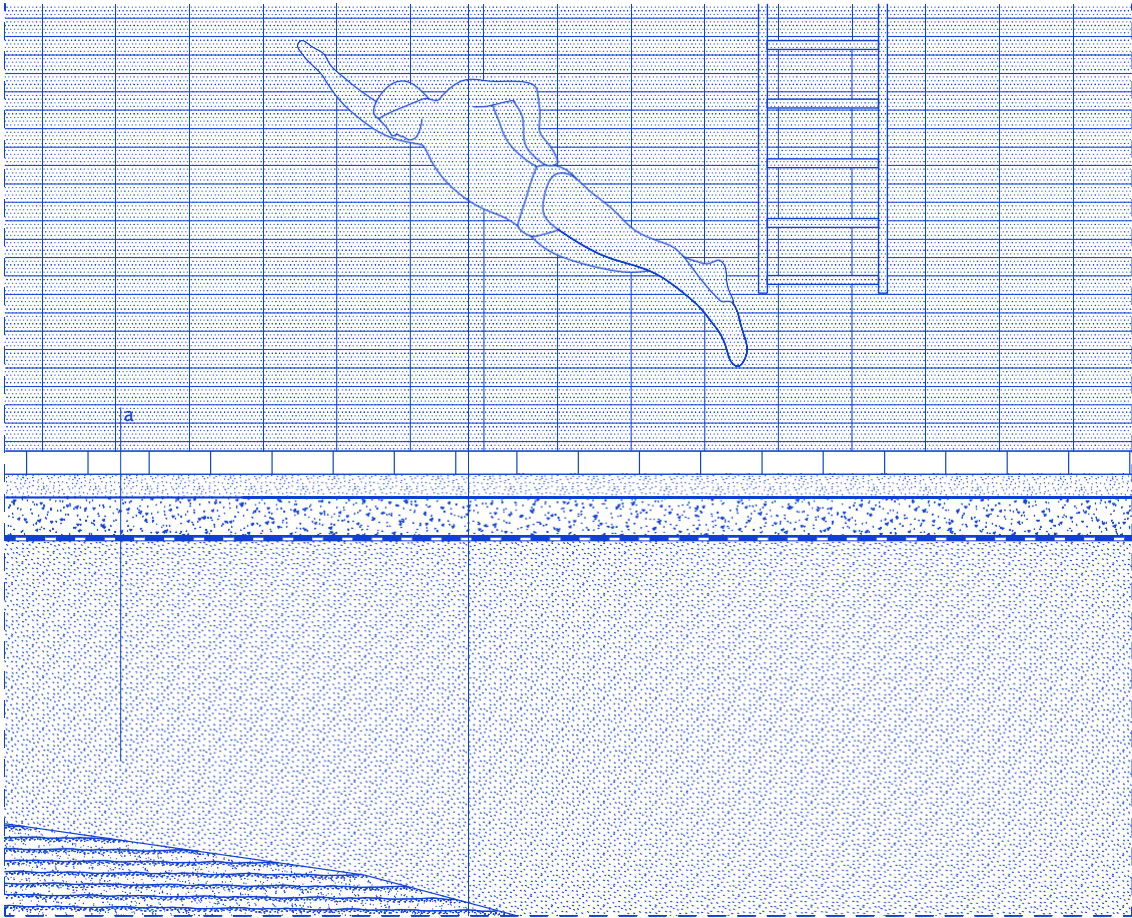




# Soil transformation





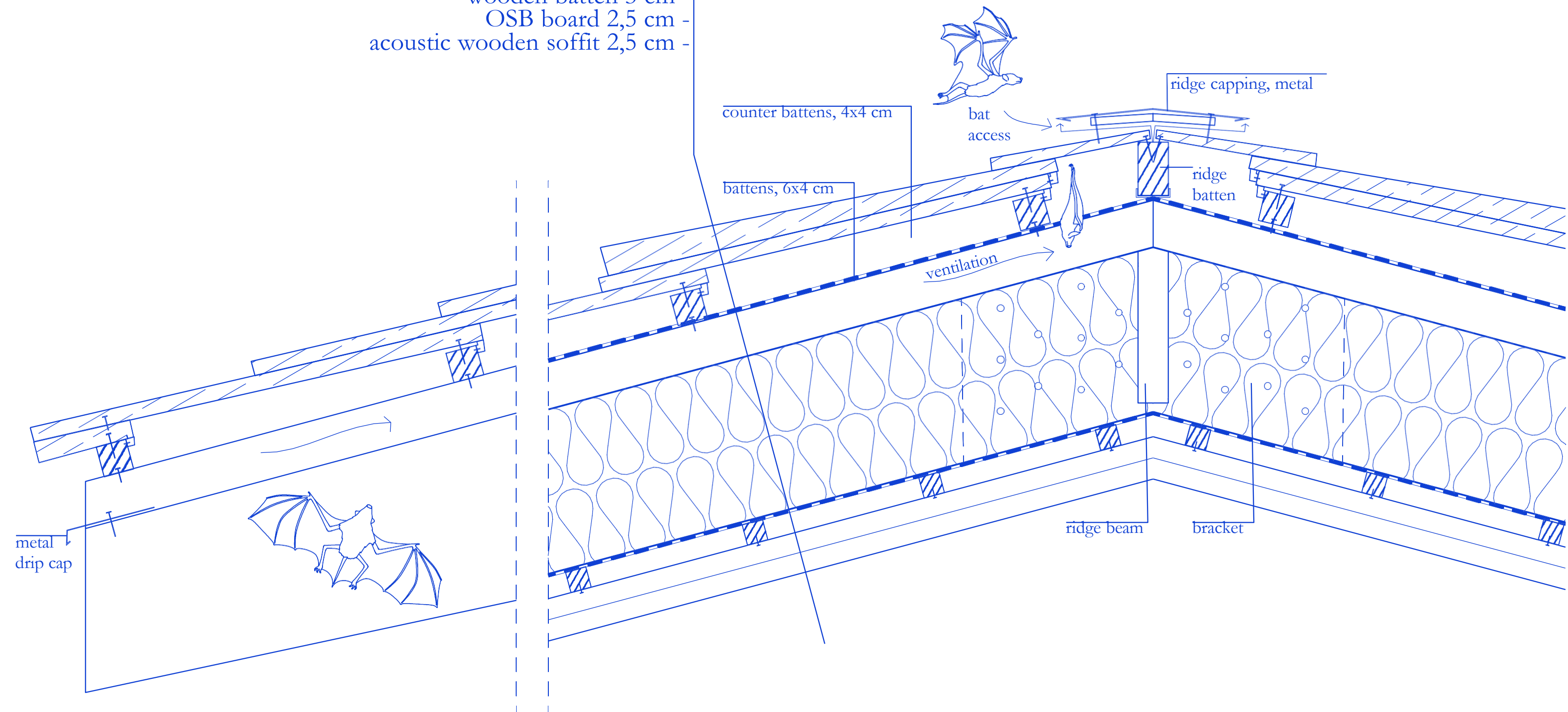








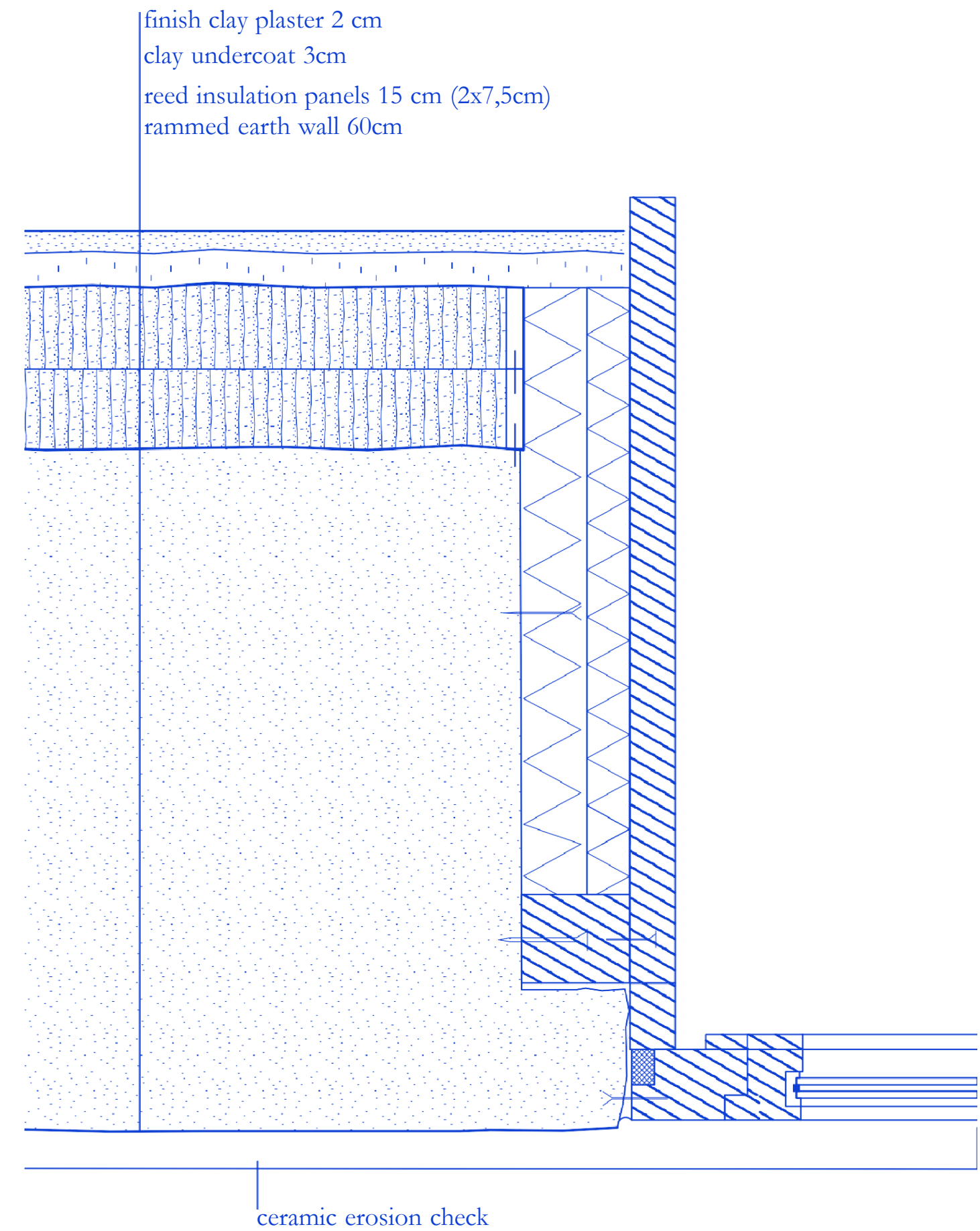
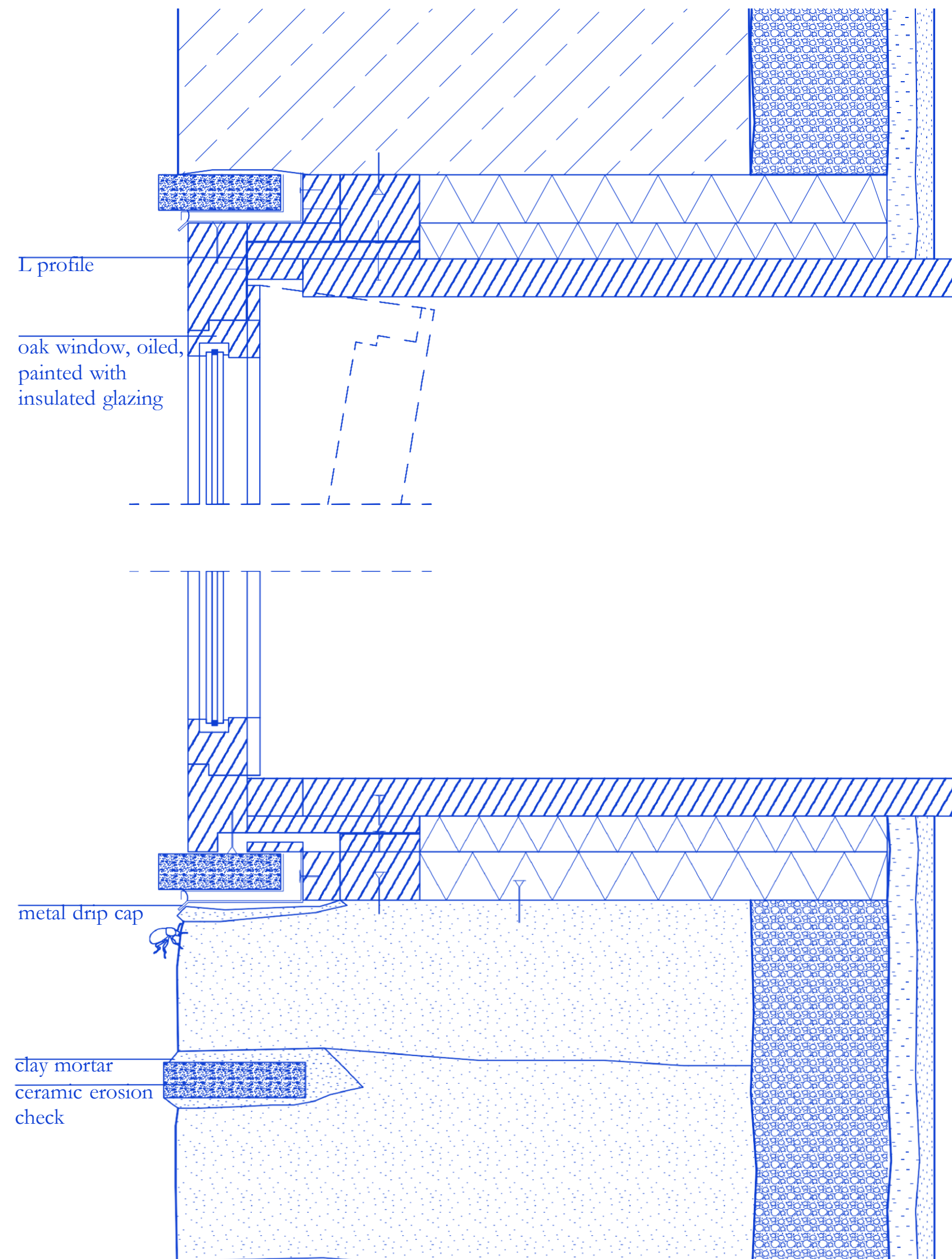
- roof pine wood shingles -
- counter battens 4 cm -
- breathable roof membrane -
- roofing battens (ventilation gap for hemp) 6 cm -
- wood fibre board 2,5 cm -
- wodden rafter + blown hemp insulation 21 cm -
- airtight vapour barrier -
- wooden batten 3 cm -
- OSB board 2,5 cm -
- acoustic wooden soffit 2,5 cm -





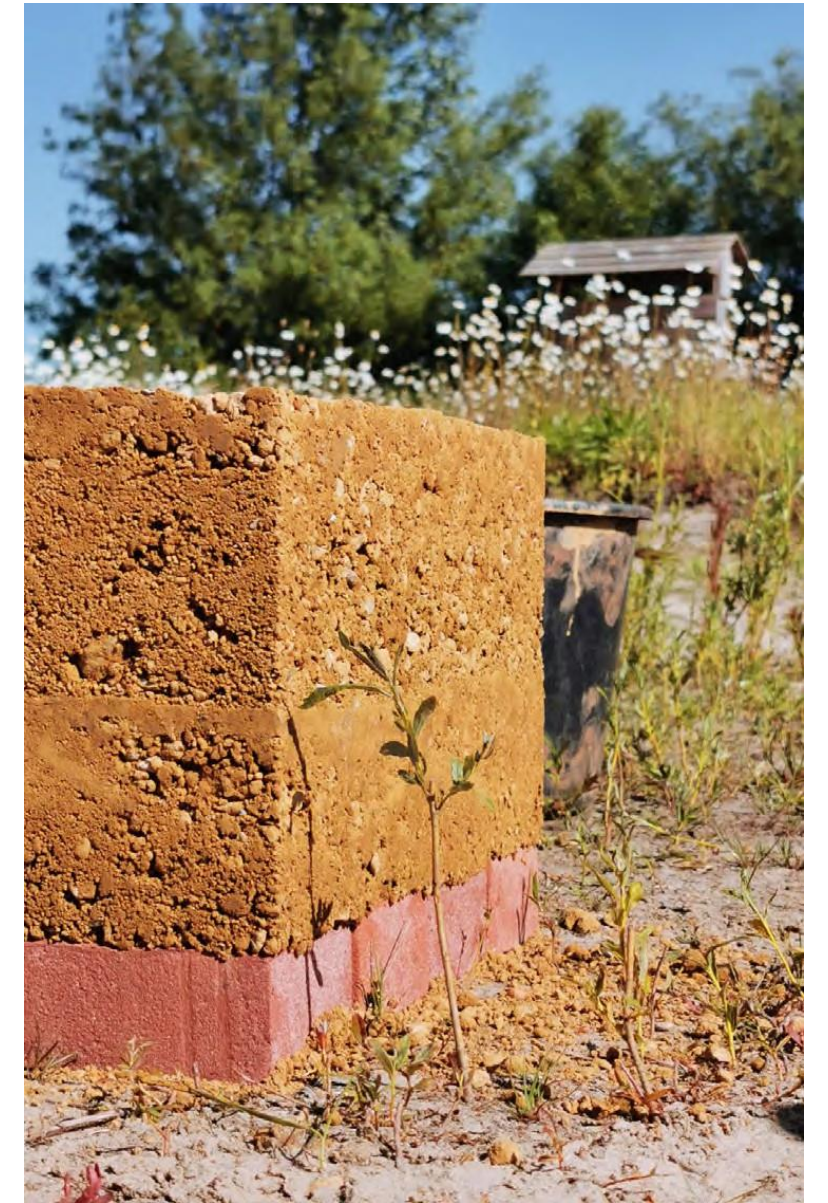






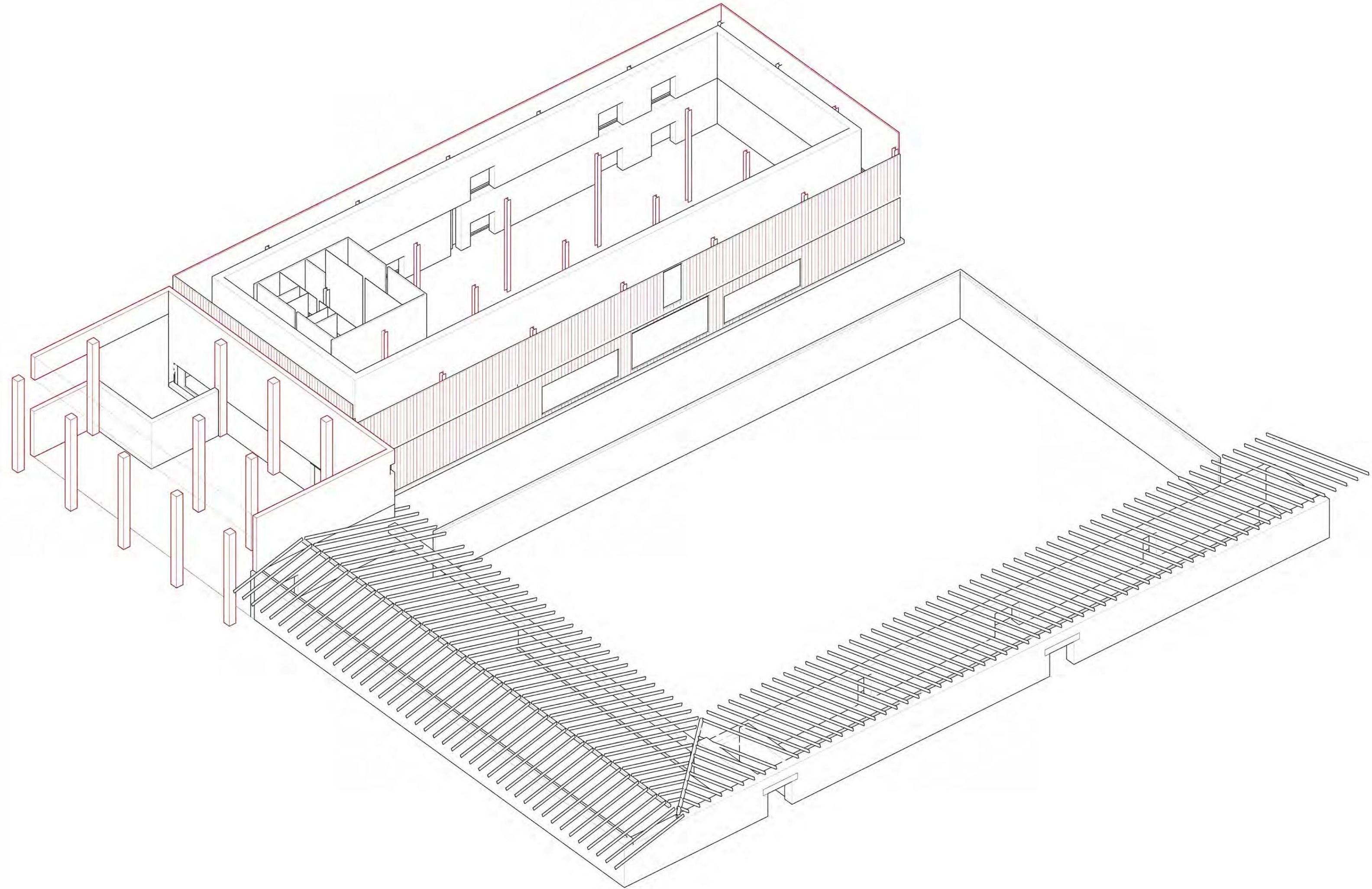


# Workshop with Studio ACTE



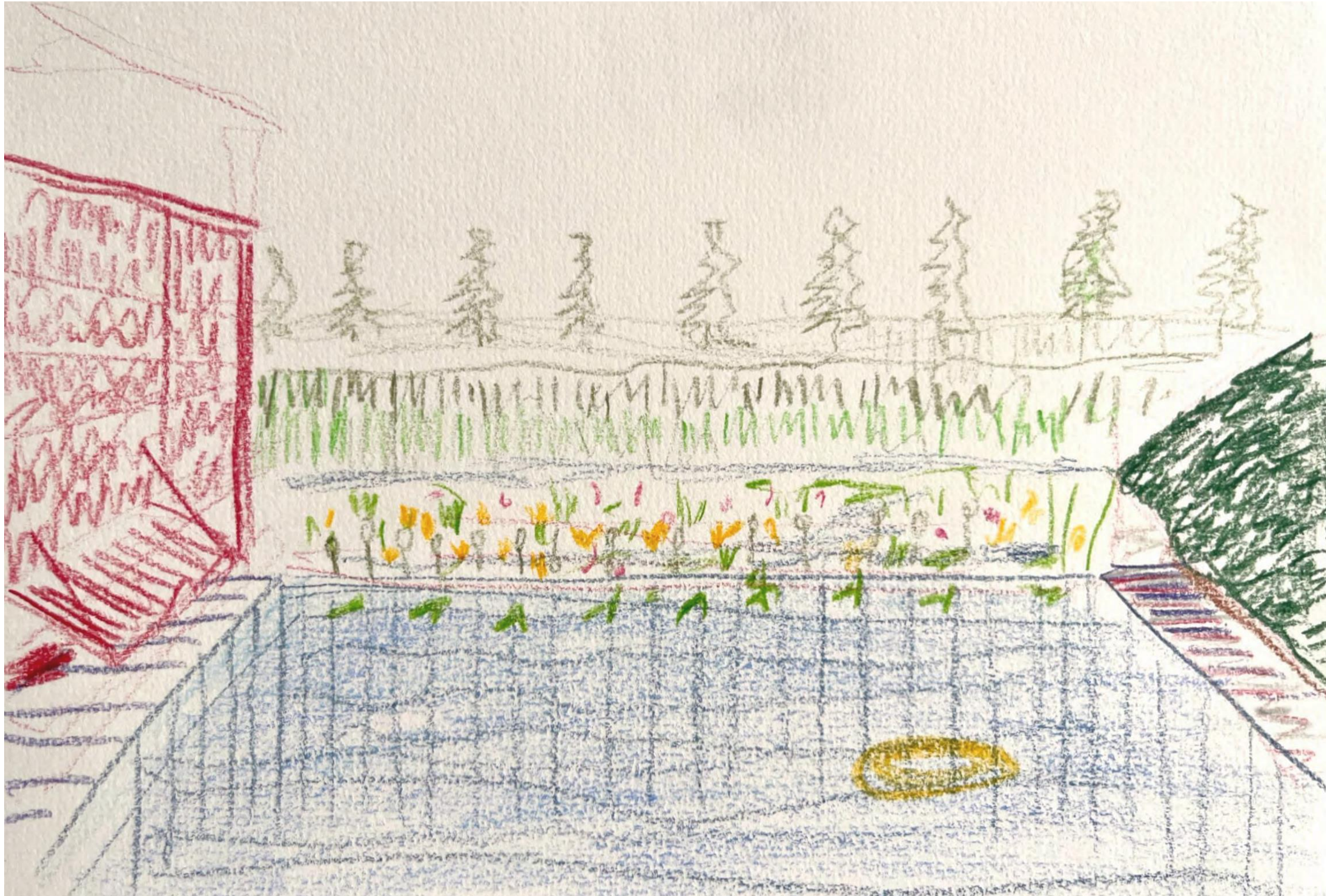


# Structural scheme





# The pool





# The natural pool



Natuurbad Antwerp





# Naturbad Riehen by Herzog & deMeuron



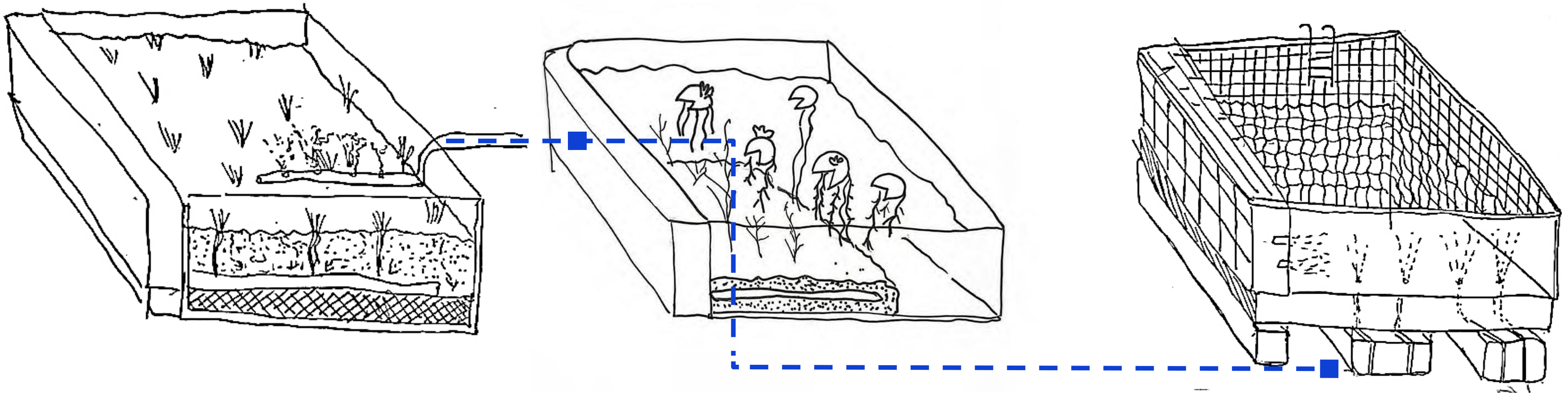


# FLOW, Brussels





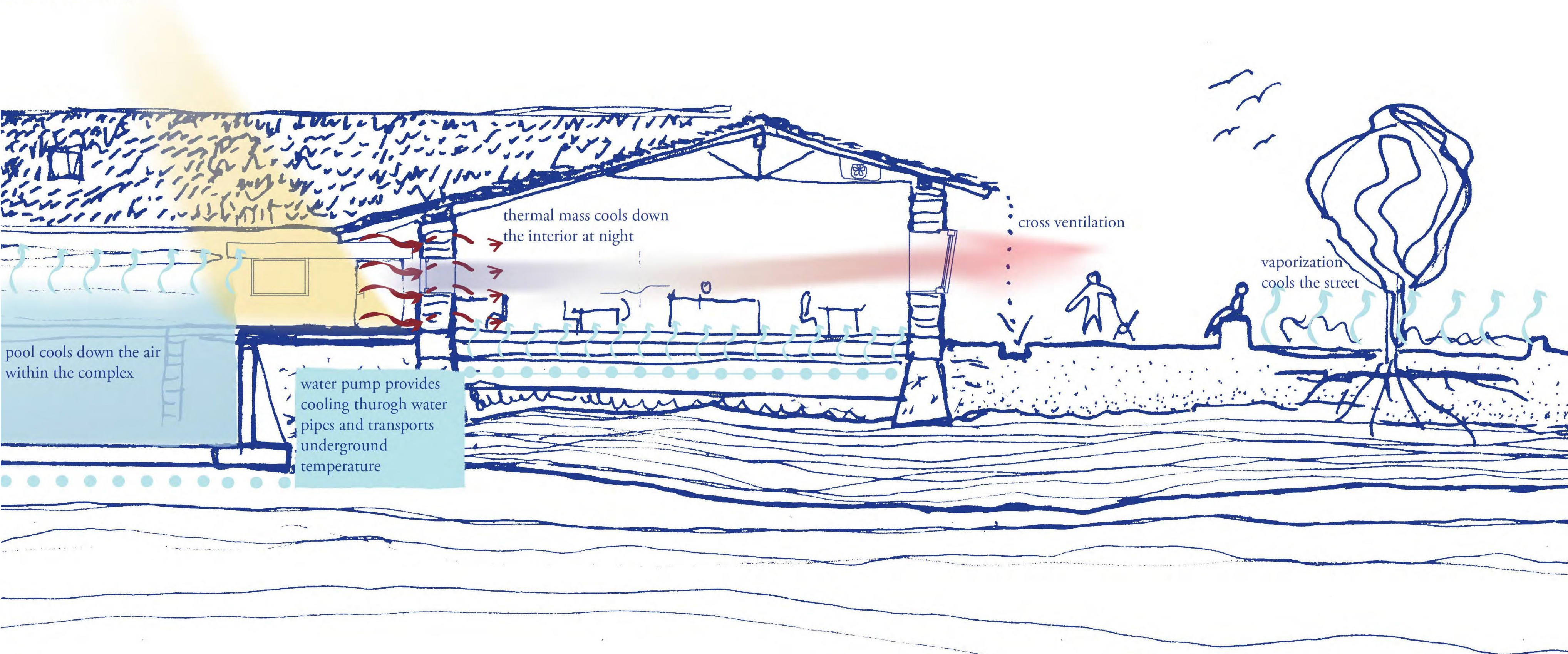
# Natural filtration system





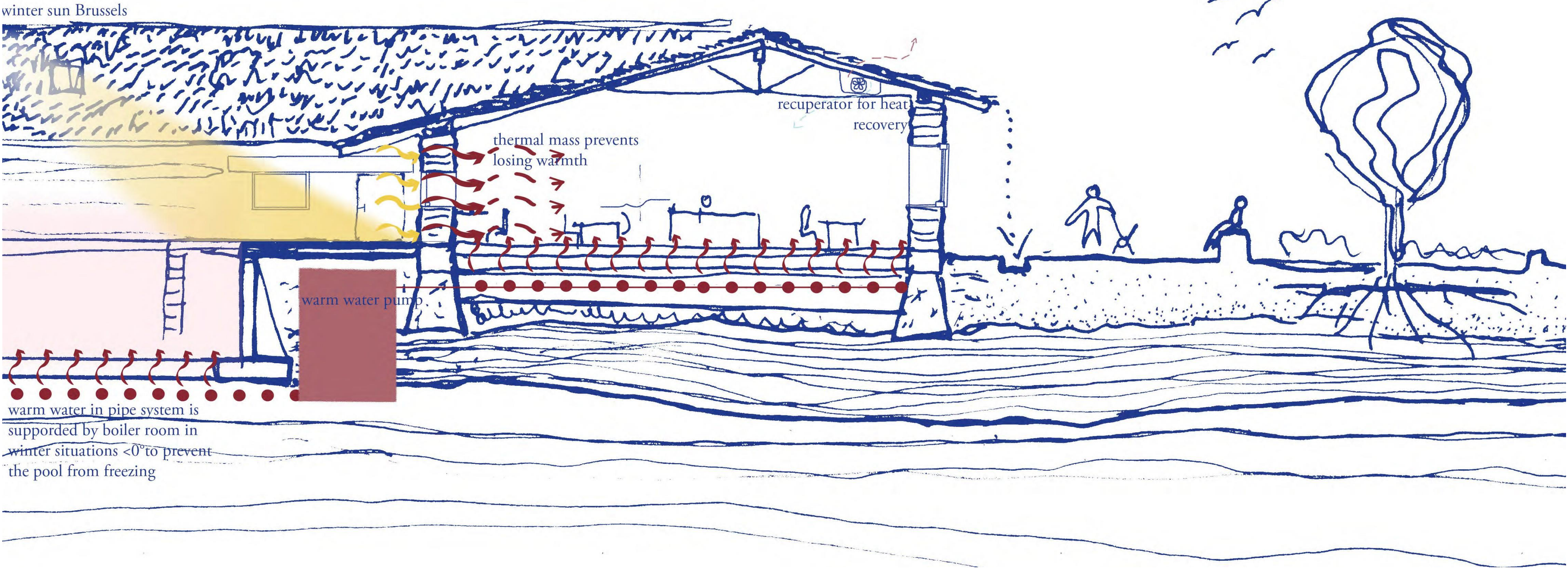
# Microclimate

summer sun Brussels



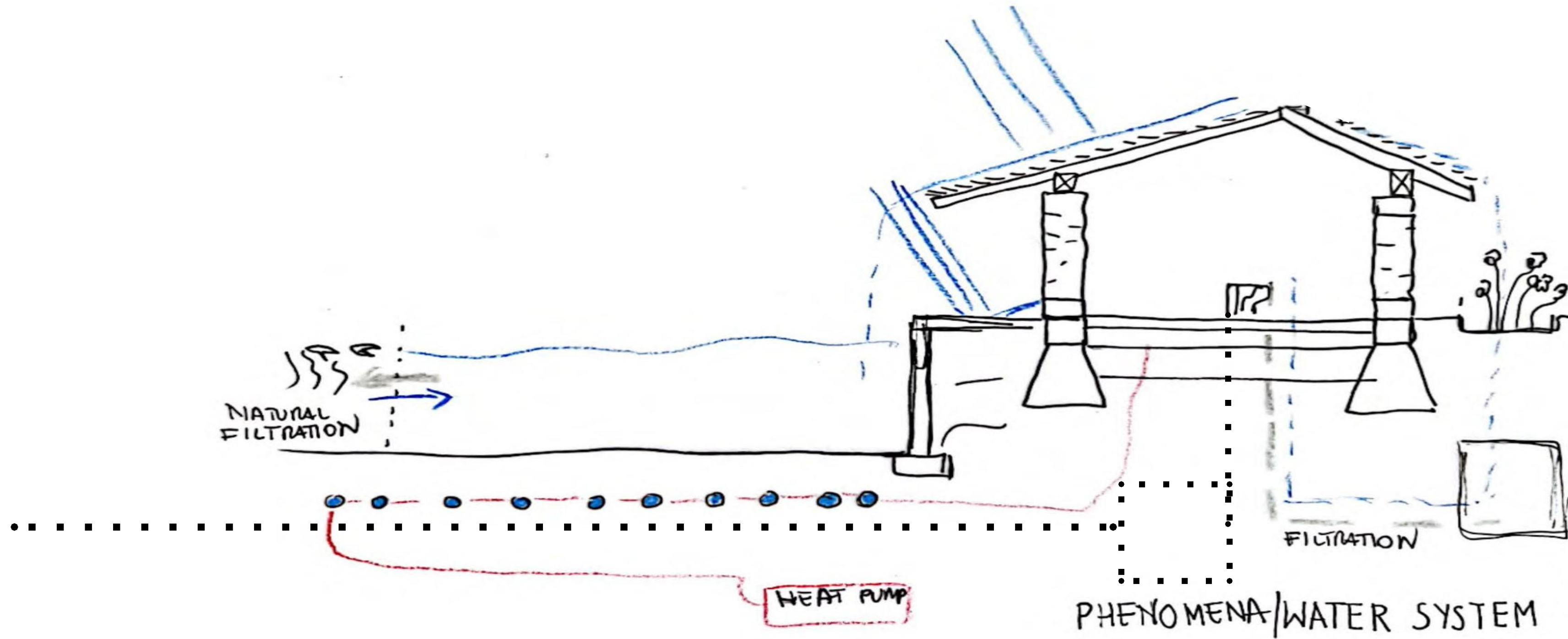


# Microclimate





# Water management

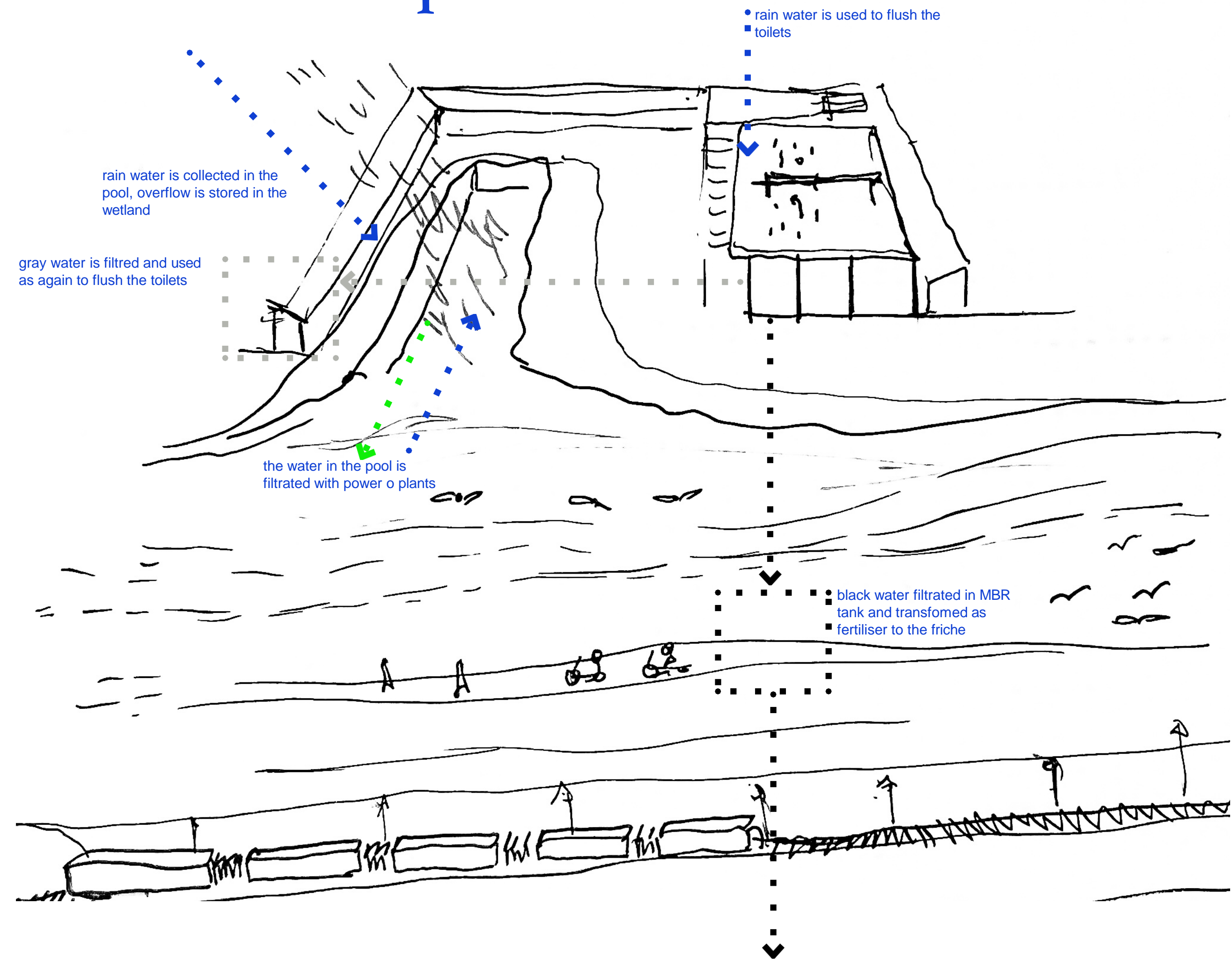








# Water management of the complex





# Use of the pool though seasons



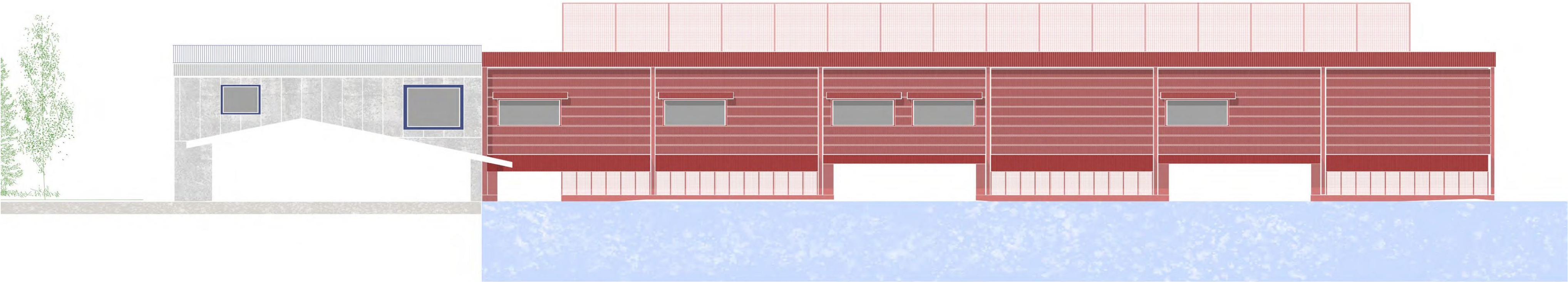


# Wild swimming



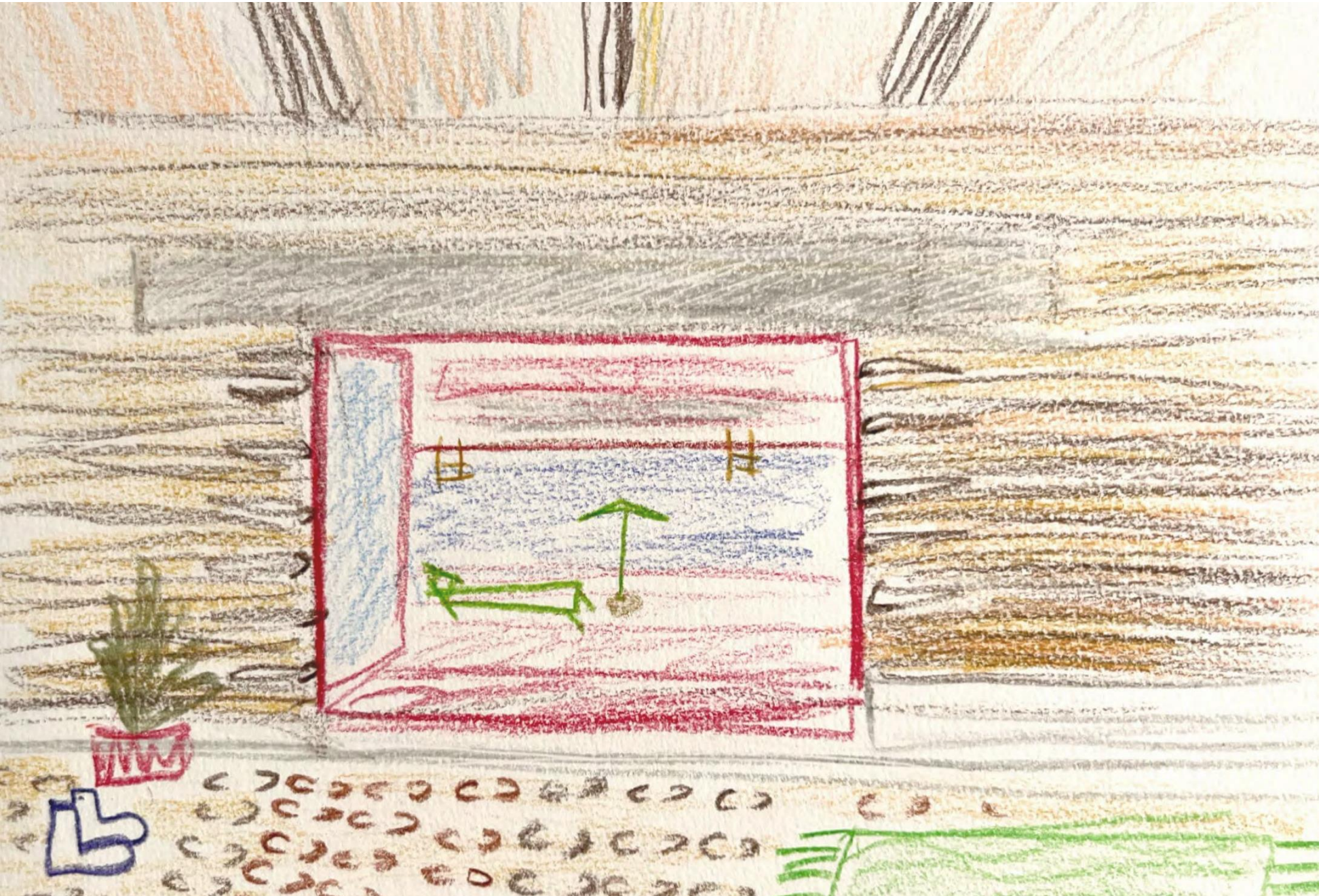
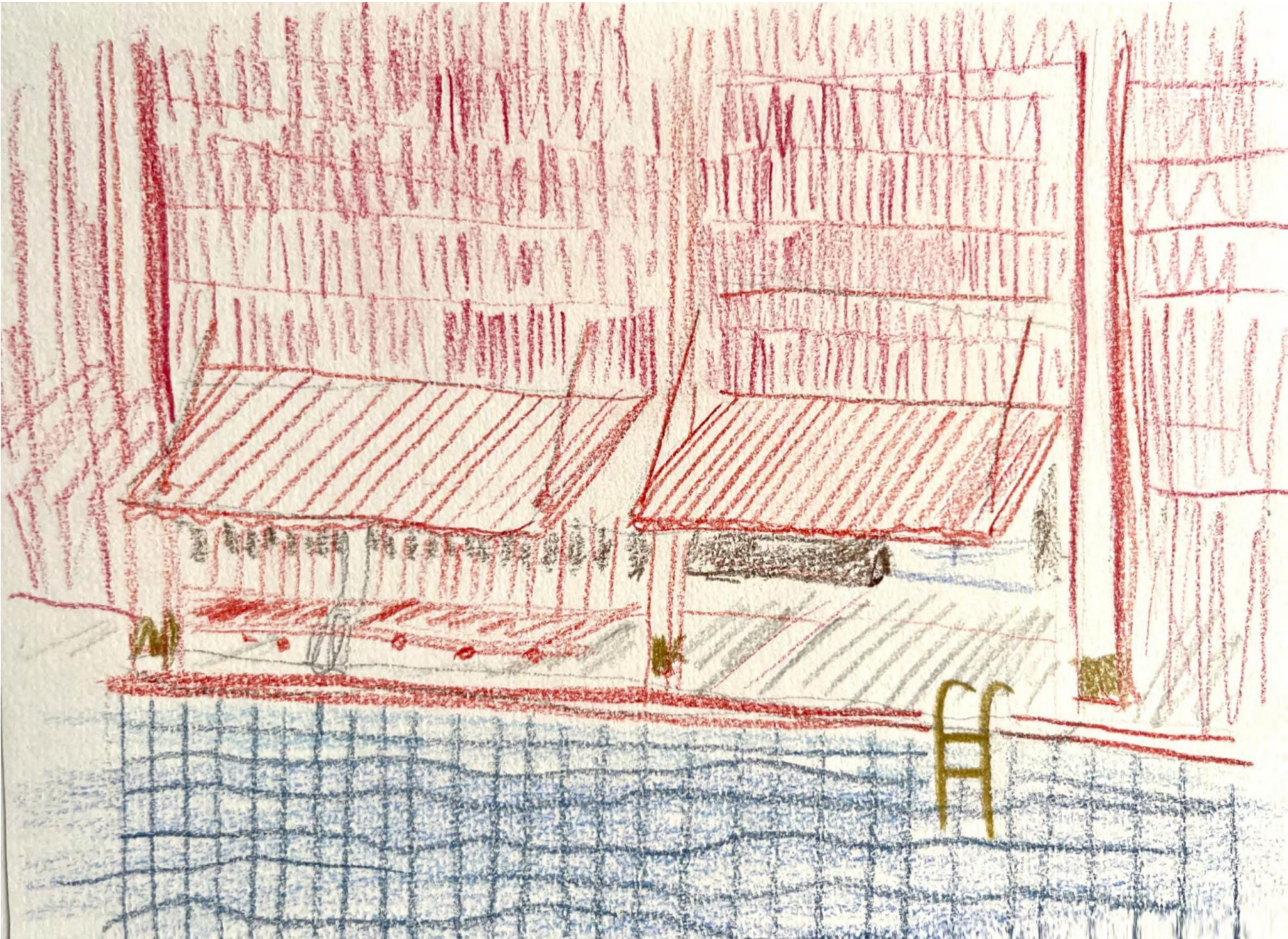


# Exterior/interior





# Interiors











# Pond to Pool

## New Waterscape at the Friche Josaphat



