

Quarantine ensemble

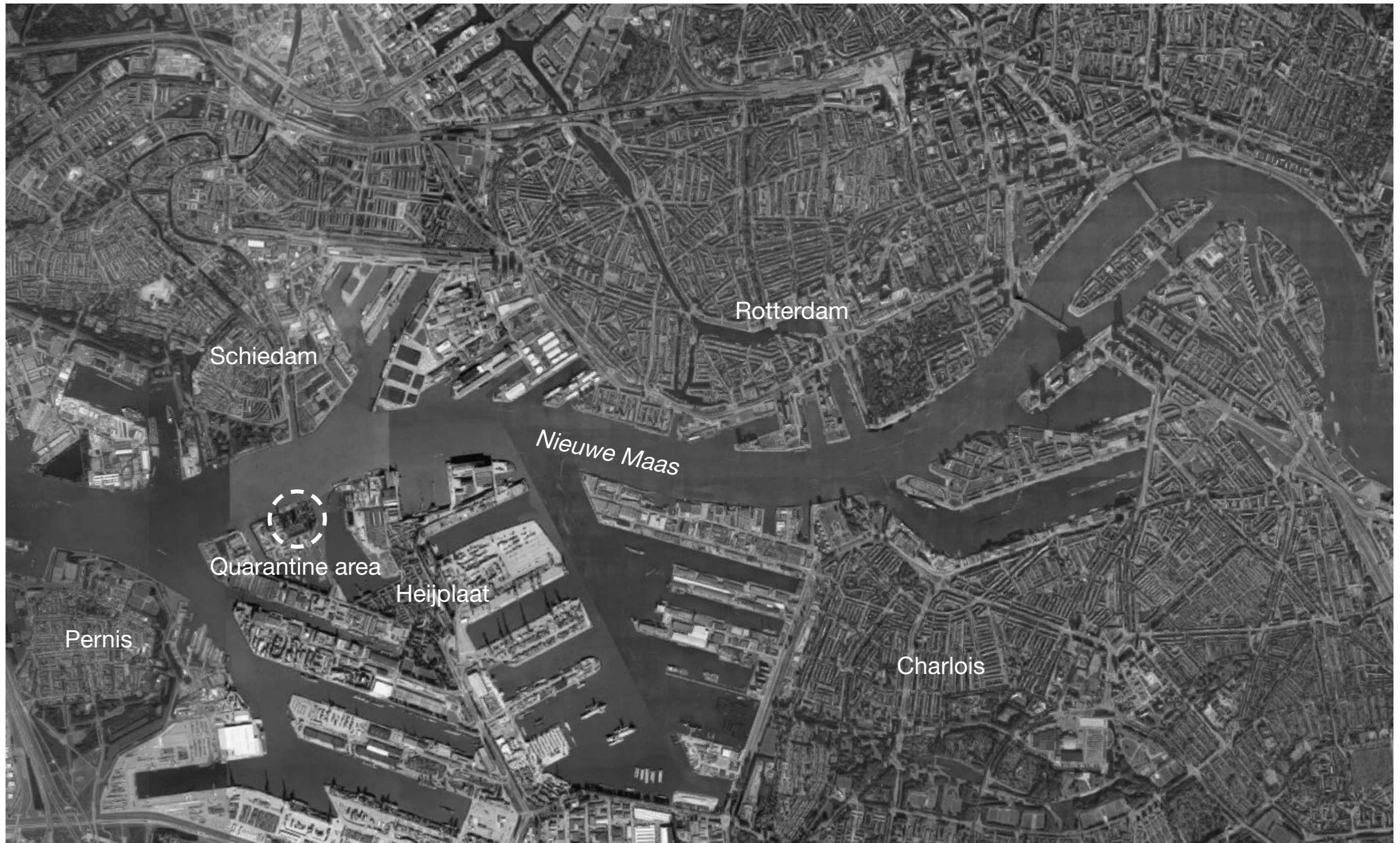
P5 presentation

Lieske Senden

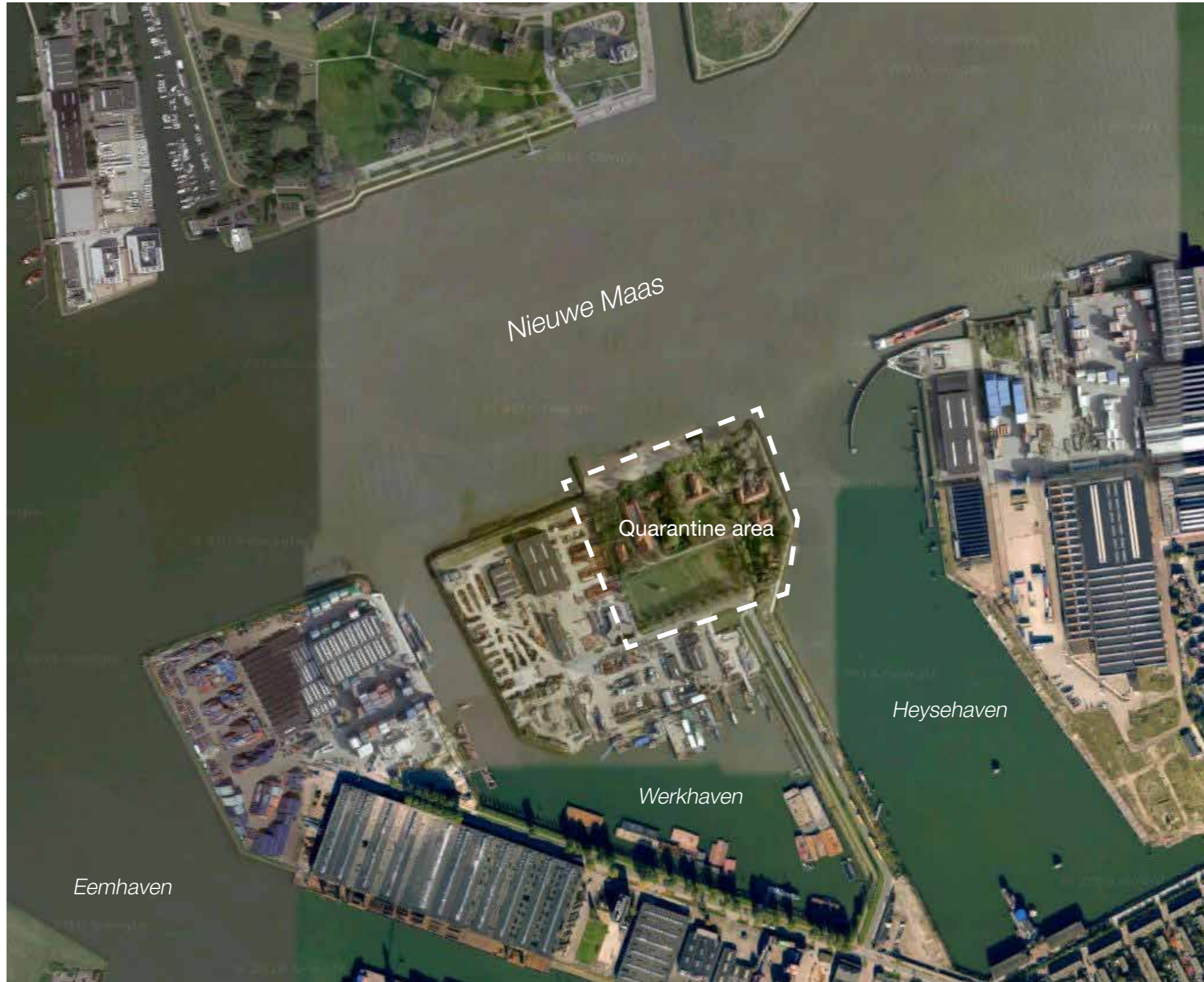
januari 2018



Located along the river - surrounded by water



Direct surrounding - river and harbors



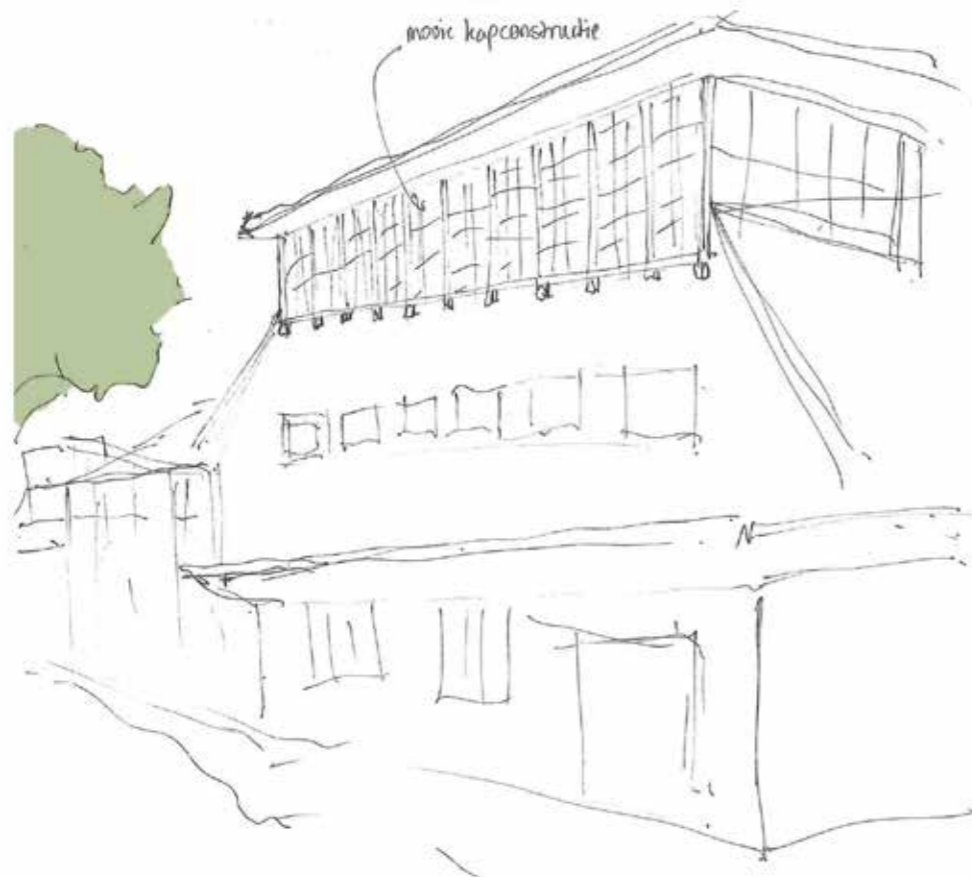
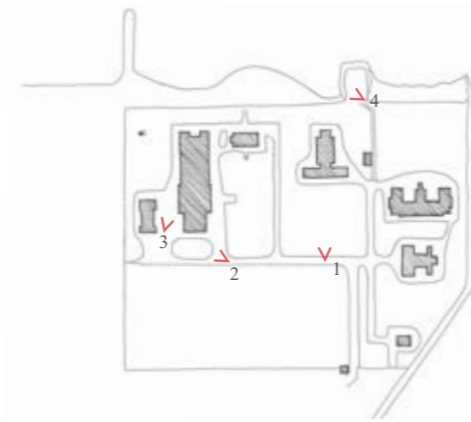
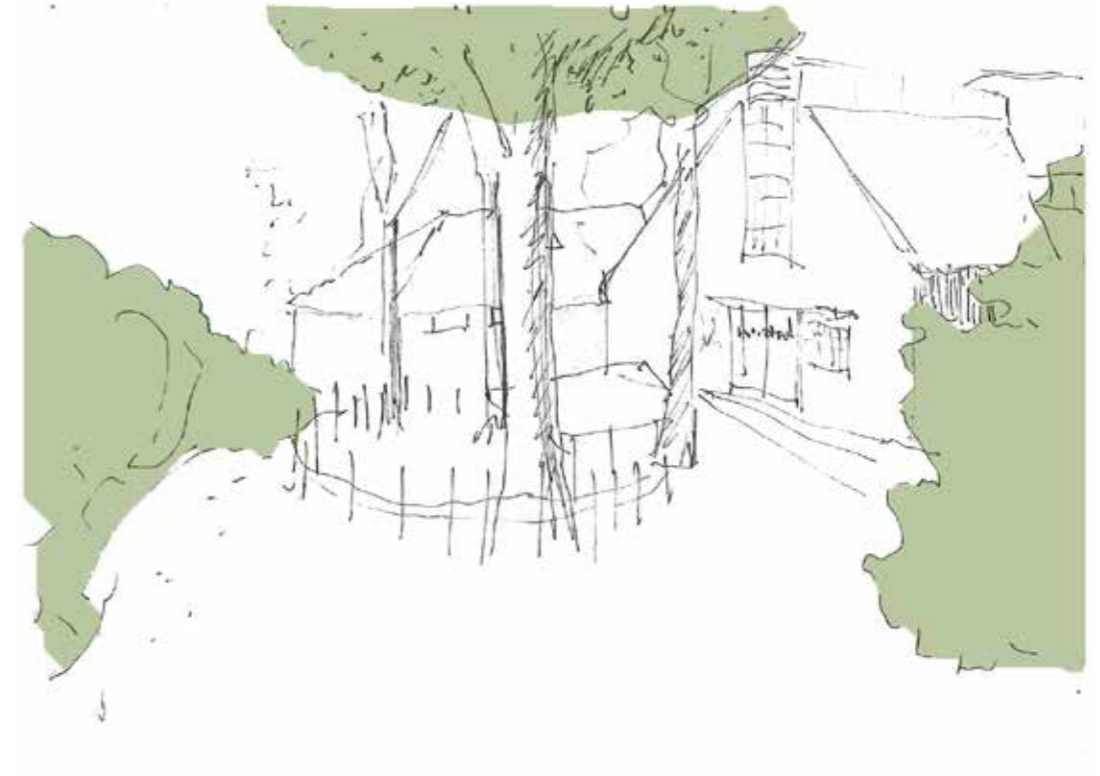
Green context

Water hardly noticeable

Time seems to stand still



Sequence of experiences



strand aan de maas

Research question analysis

What was and is the character/atmosphere of the outdoor space in the quarantine ensemble in relation to the buildings and what can it be in future?

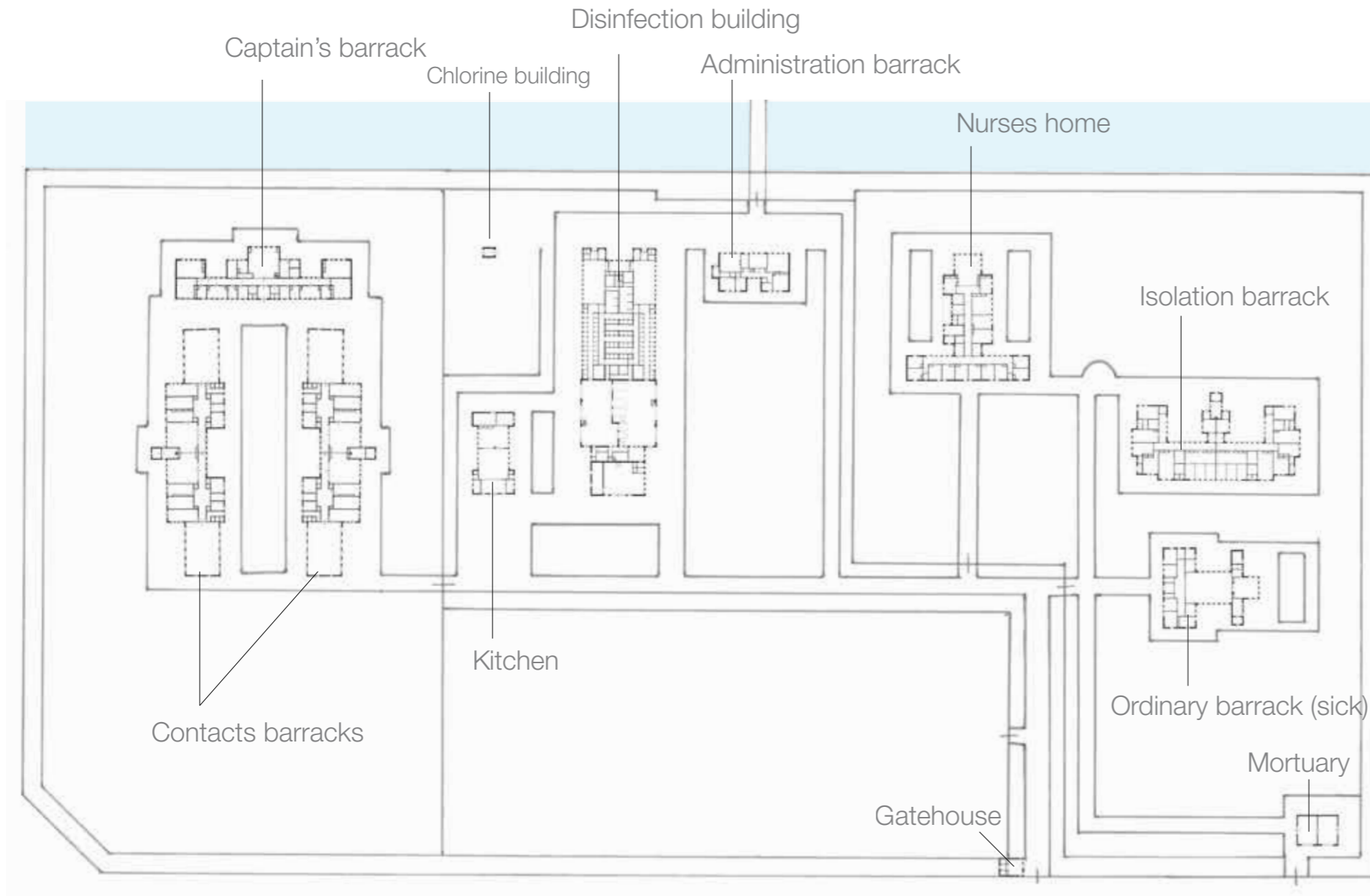


Why a quarantine terrain?

What was the function?

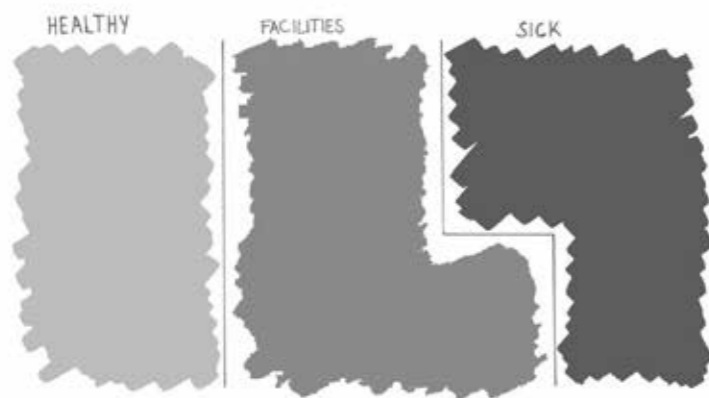
Why the Beneden Heijplaat?

Analysis

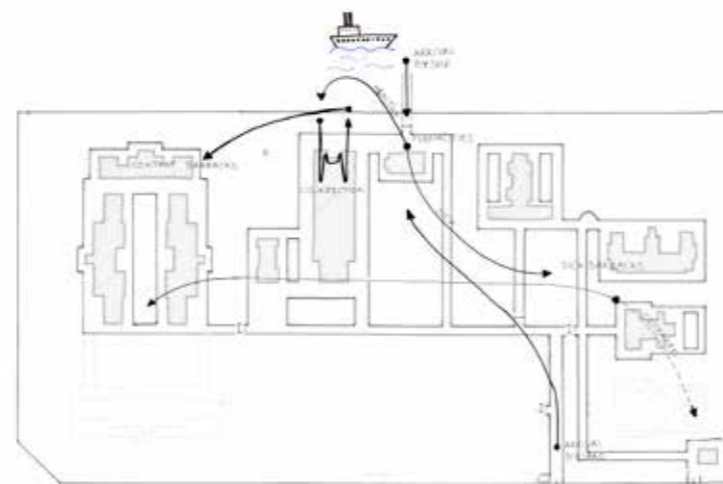


Original design

A geometrical structure of separate pavilions
Every building had its own function/program



Zoning



Routing

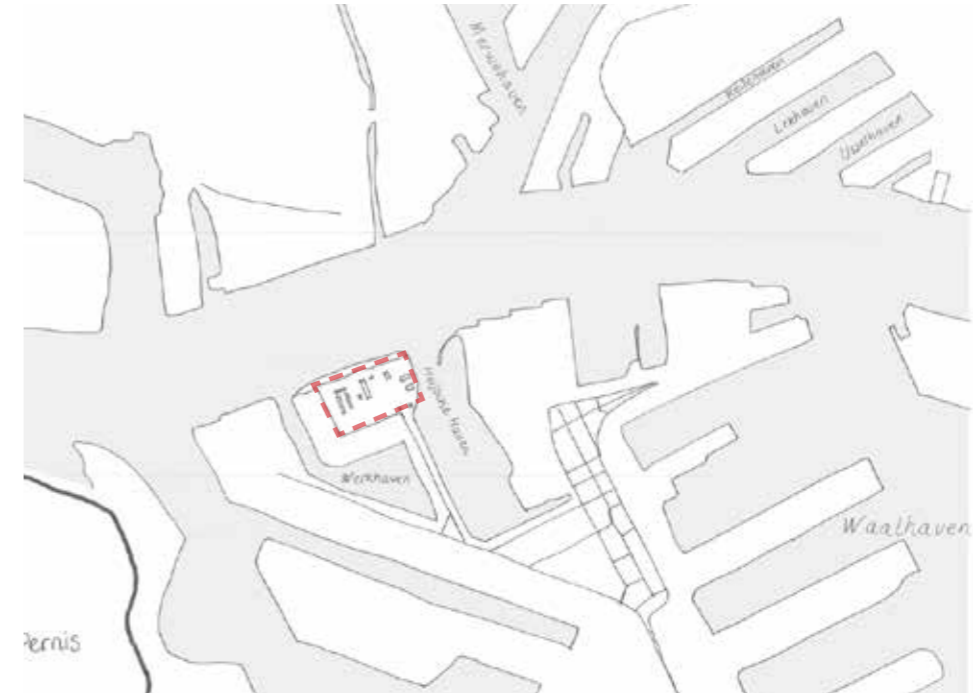


Green structure

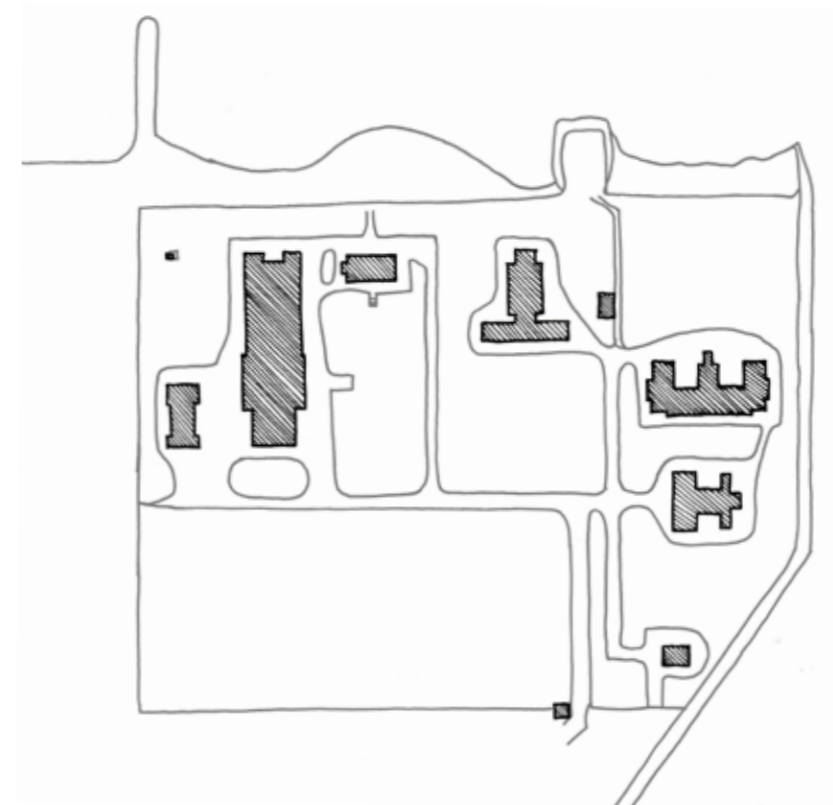
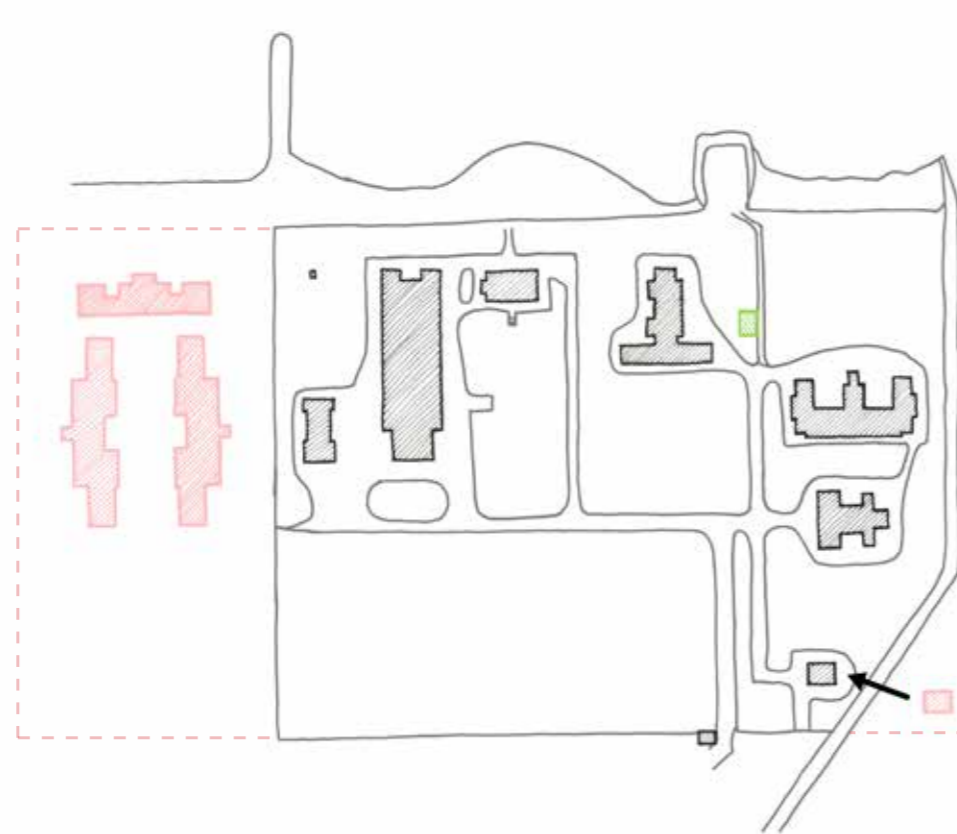
Physical changes of landscape and terrain



1940



1970

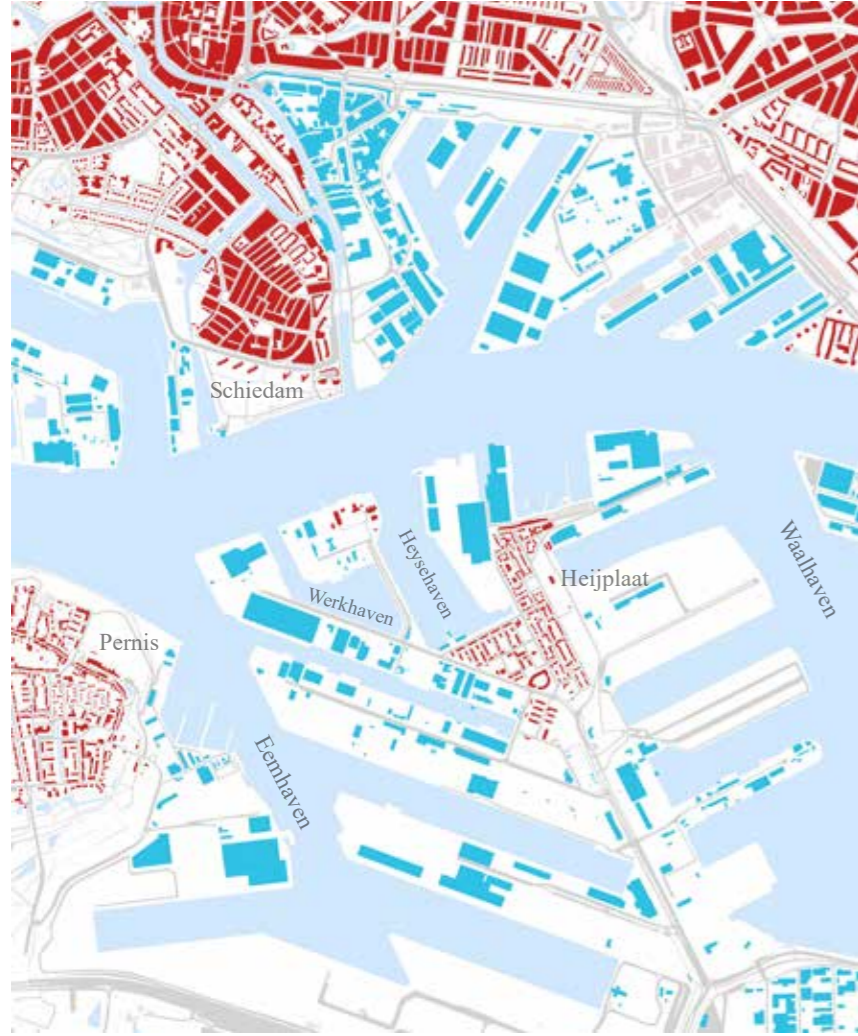




Unique green environment in the city of Rotterdam with a natural river beach.



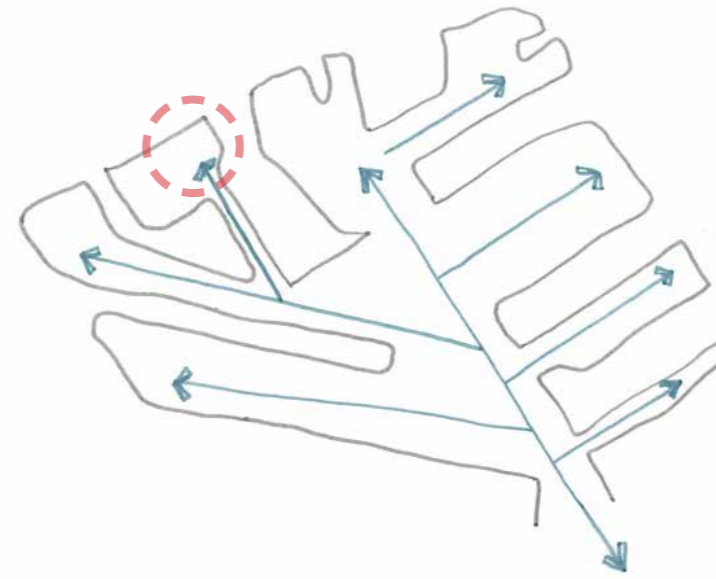
Functions of the surrounding



- Residential areas
- Harbour companies

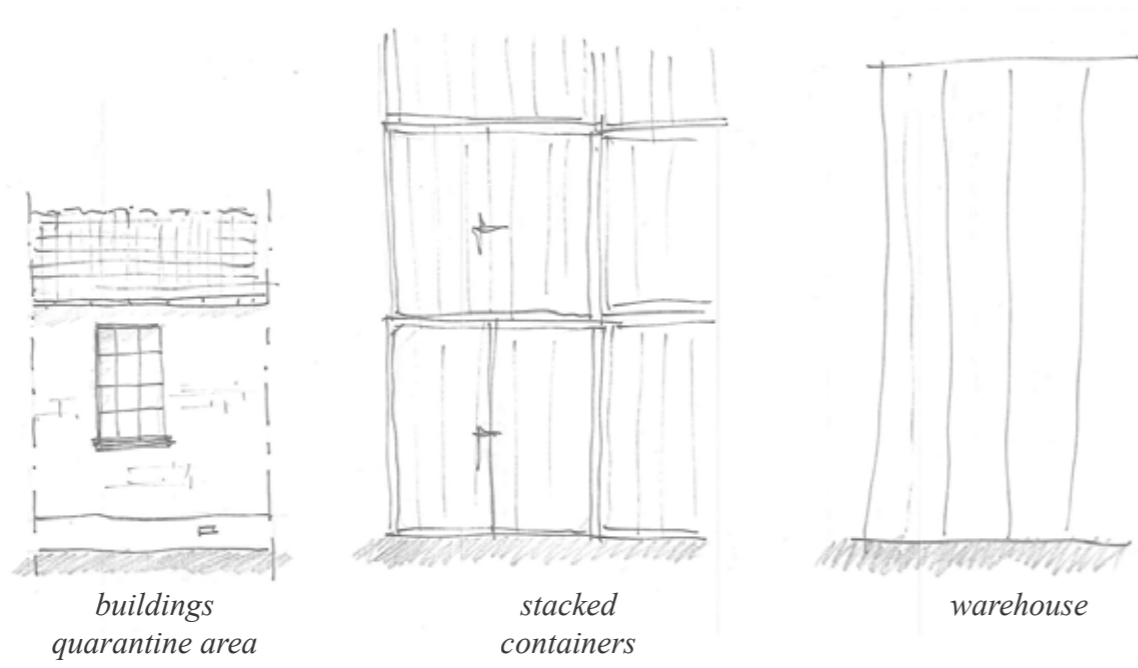
(M. Bijkerk)

Orientation and movement



Green and water



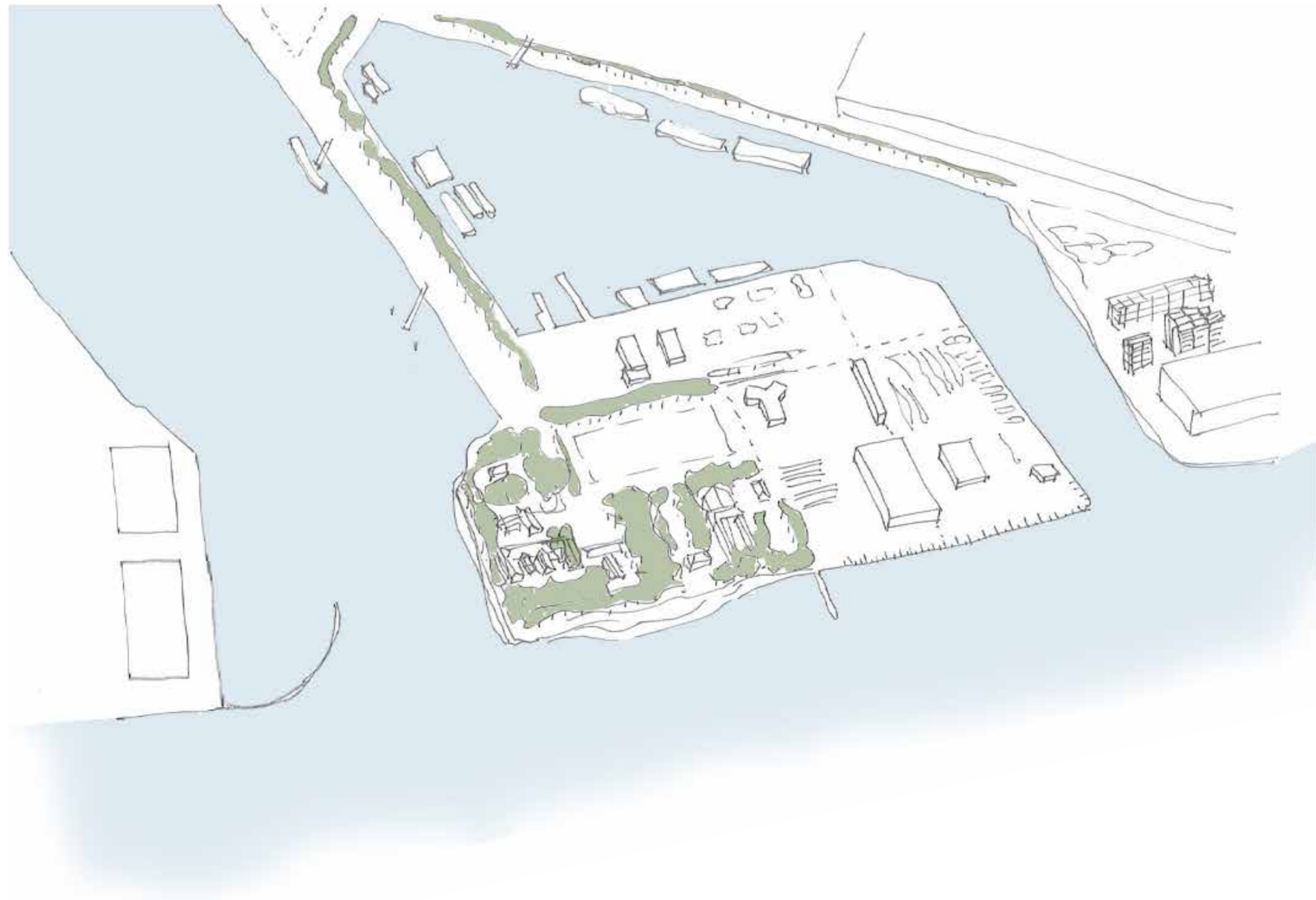


Scale difference between buildings of the context



Enclave

omsloten en contrast met omgeving

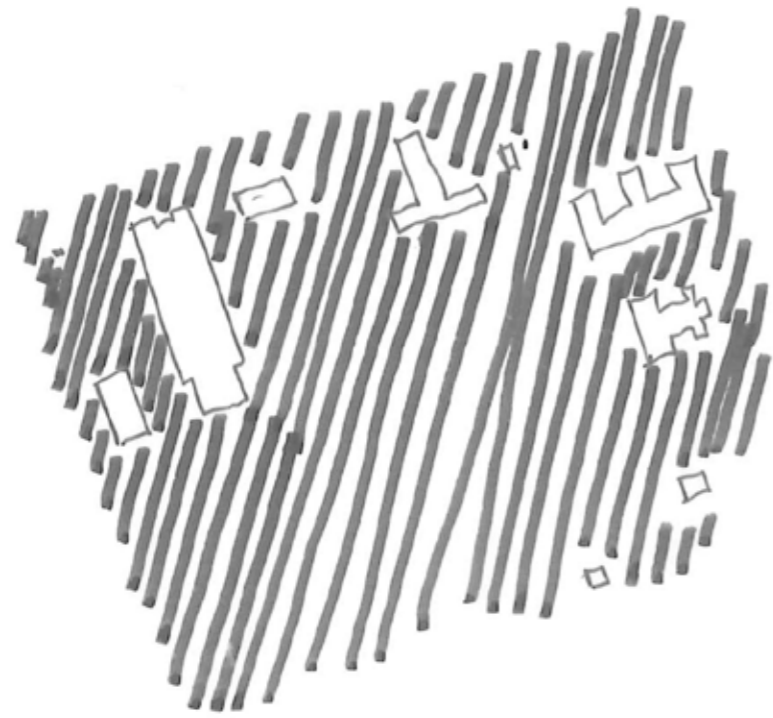




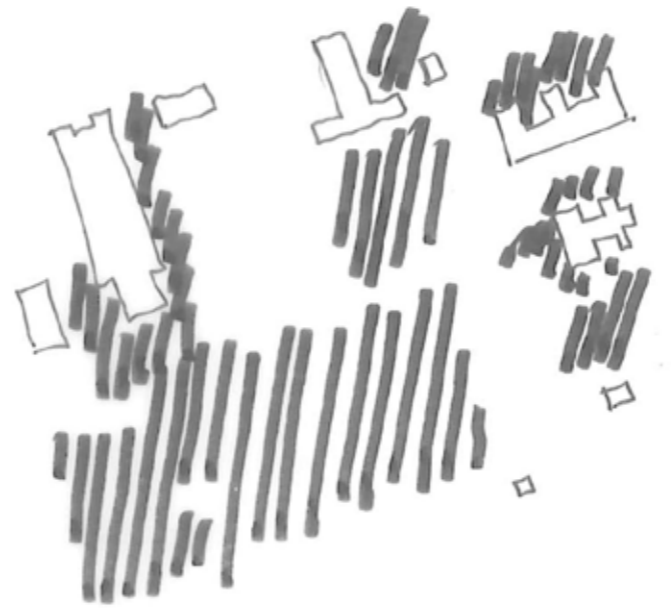
'ensemble'

Coherence between elements

An ensemble consists of buildings and context



Space between the buildings

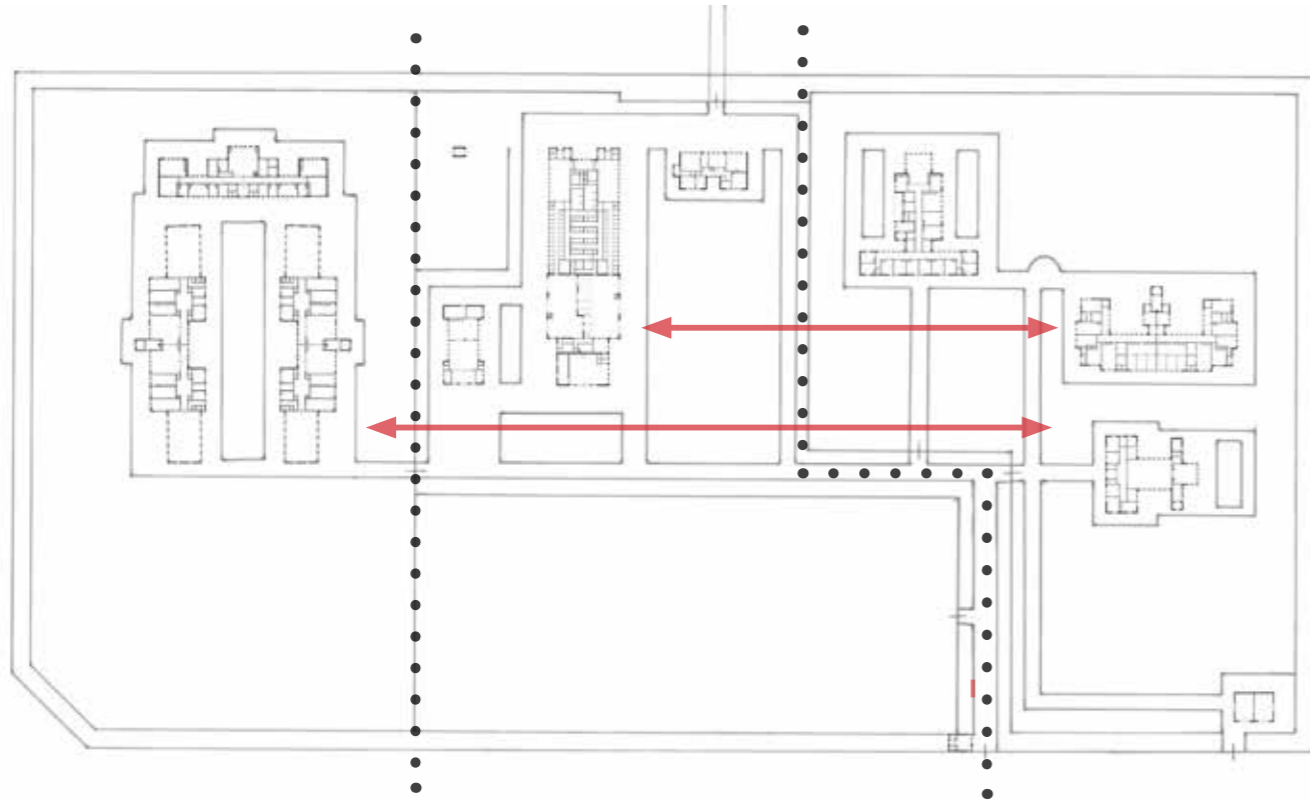


Space between the buildings and green

In-between space

It is space in sense of 'distance'

It is a place on its own



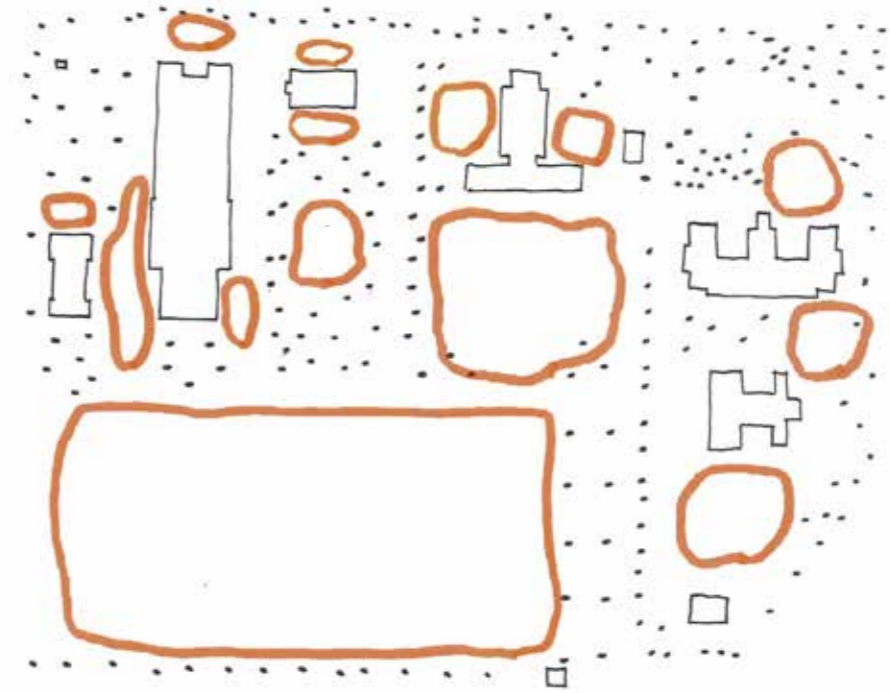
Defined by separation of functions in different buildings, because of:

- risk of infection
- daylighting

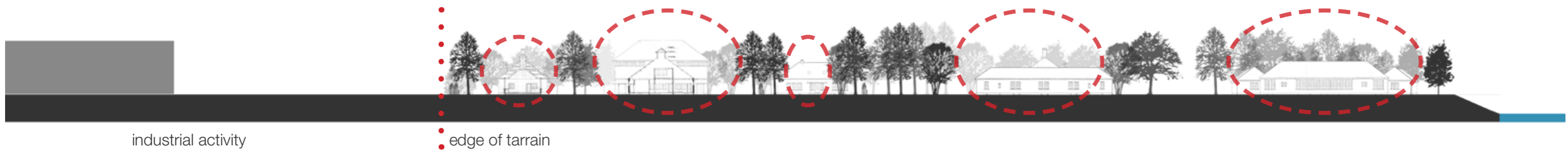




Current green structure



Trees and buildings define different in-between spaces



industrial activity

edge of terrain

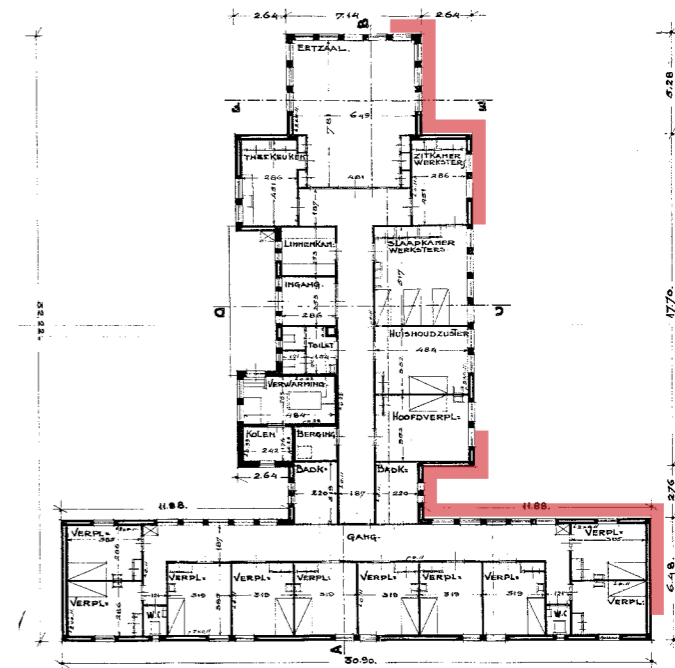
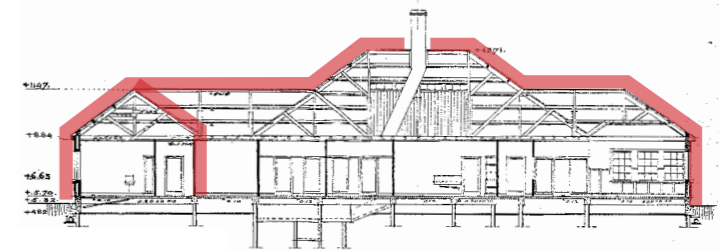
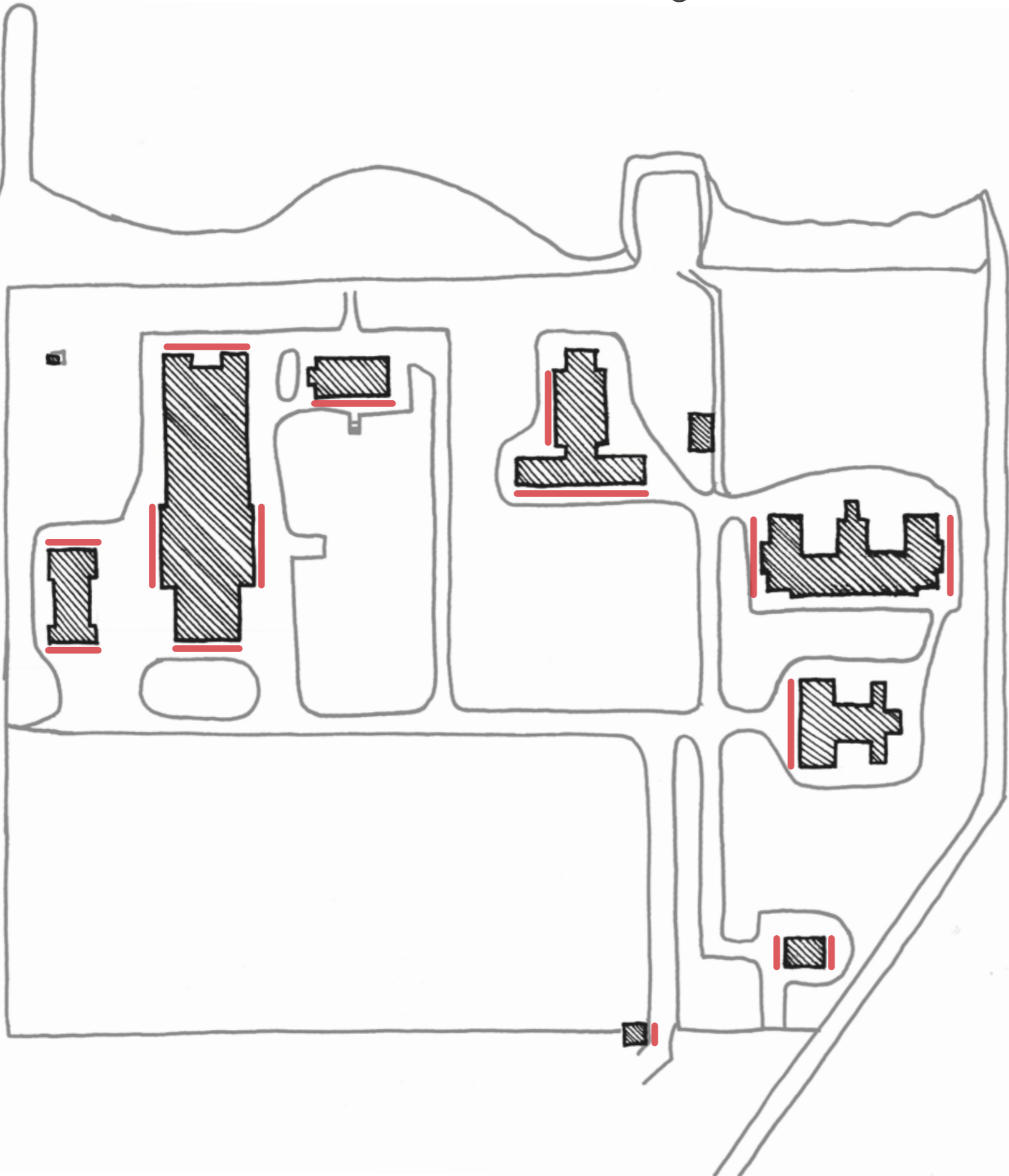
The original structure of paths and green is still traceable



Buildings and the in-between

The buildings make architectural statements that influence the in between space

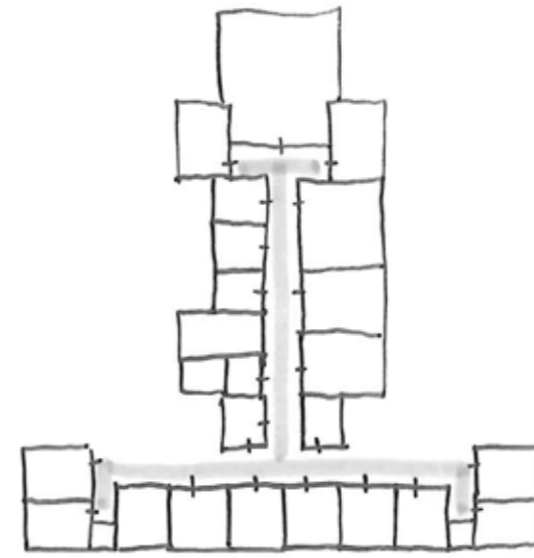
Orientation and faces of the buildings/architecture influence the in between space



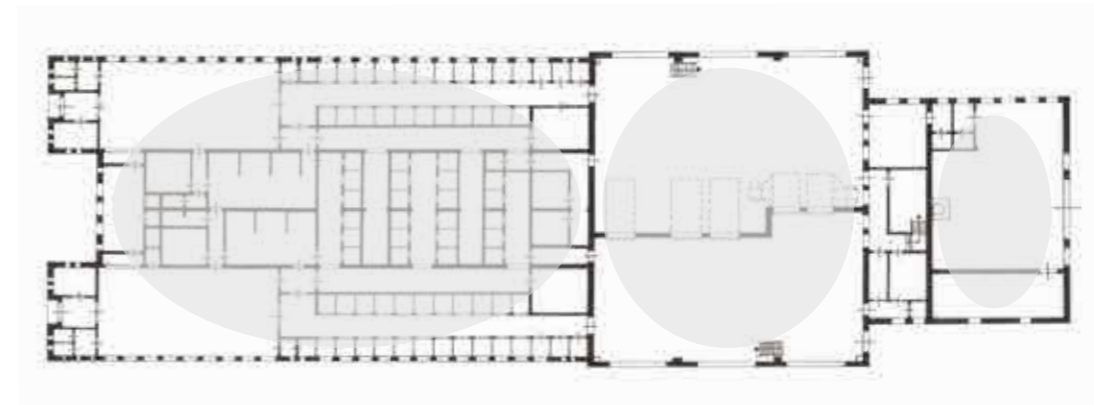
Building typology

Buildings with architectural expression

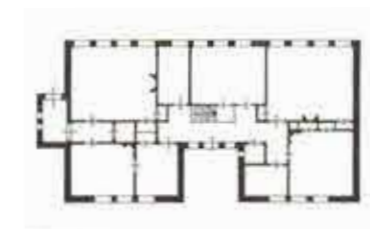
Main material used: brick and roof tiles



Corridor typology



Typology bigger connected spaces



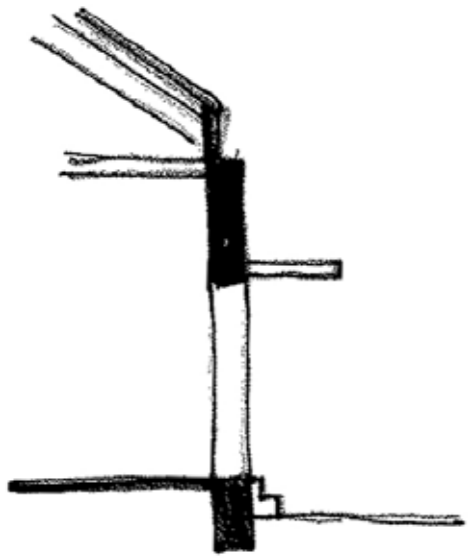
House typology

Relation inside-outside

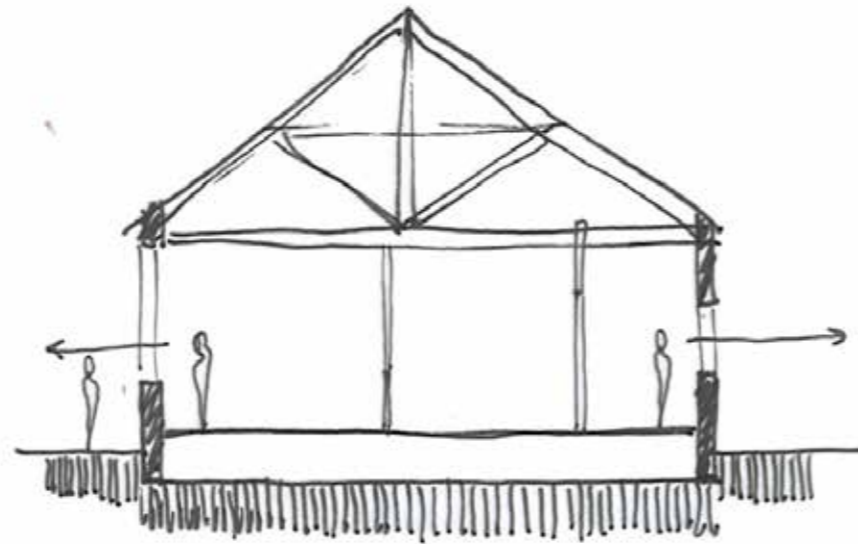
Ground floor higher than ground level outside

Entrance zone with steps and concrete canopy

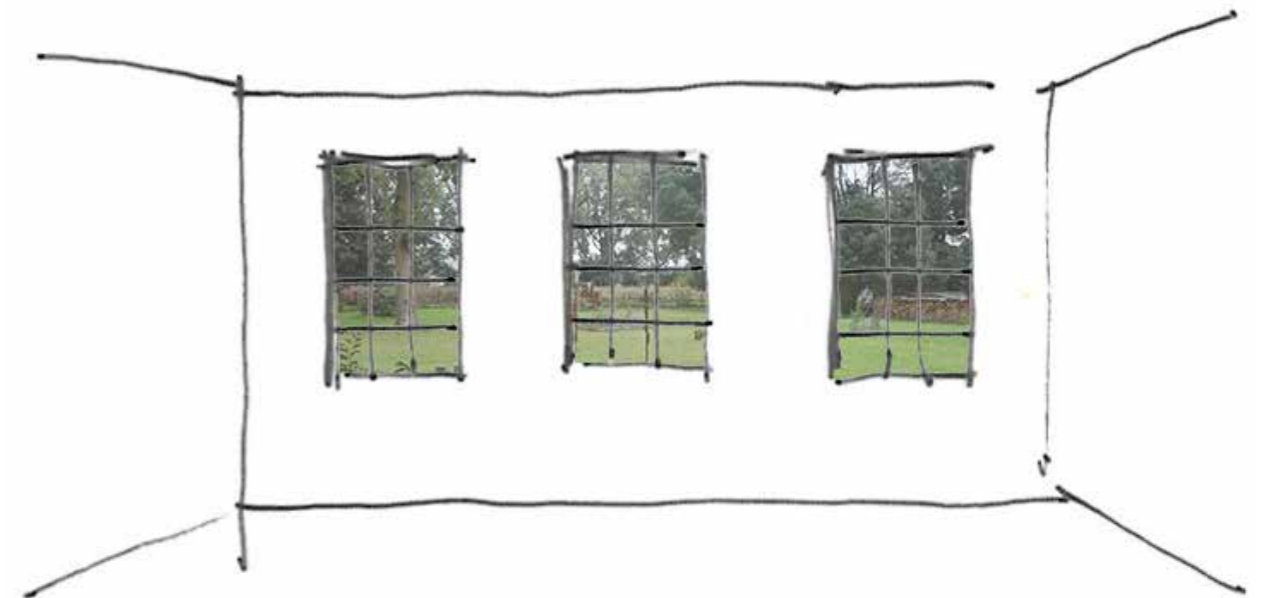
Framed view from inside



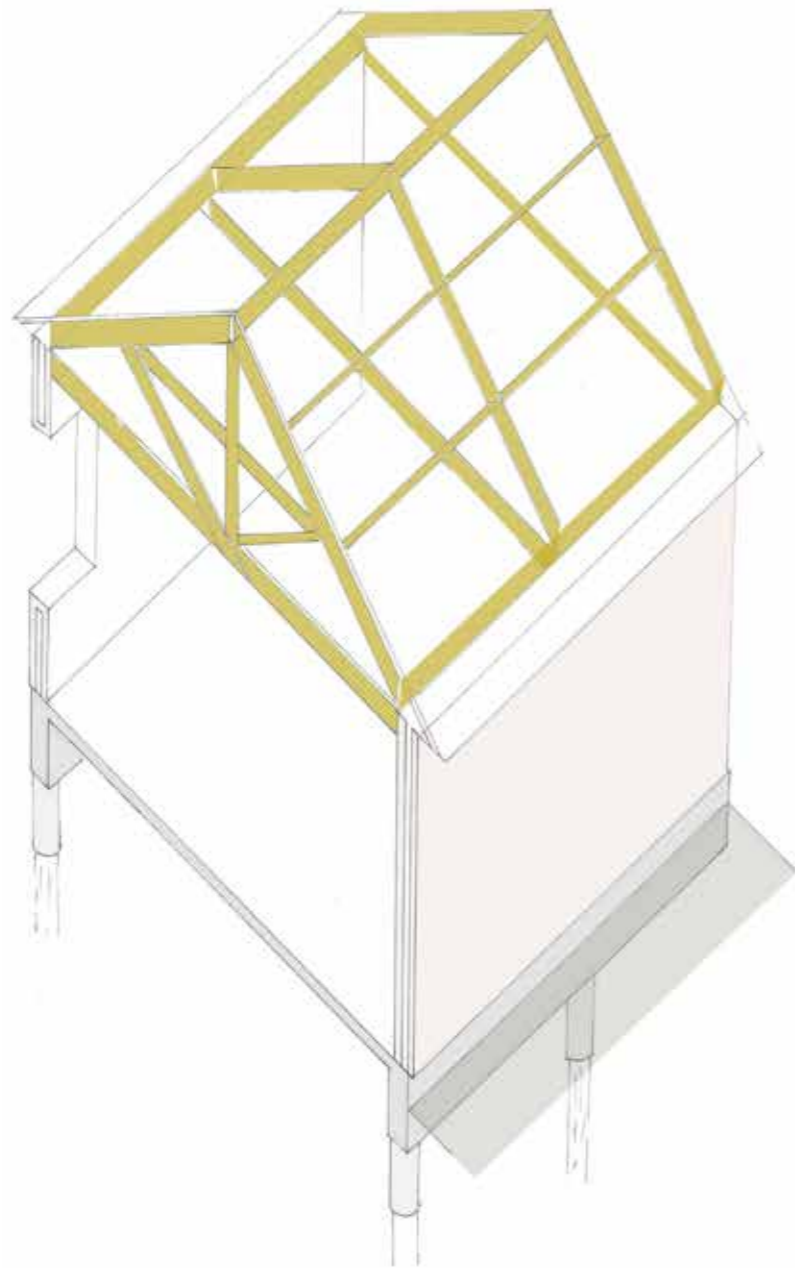
Entrance



Section



Framed view

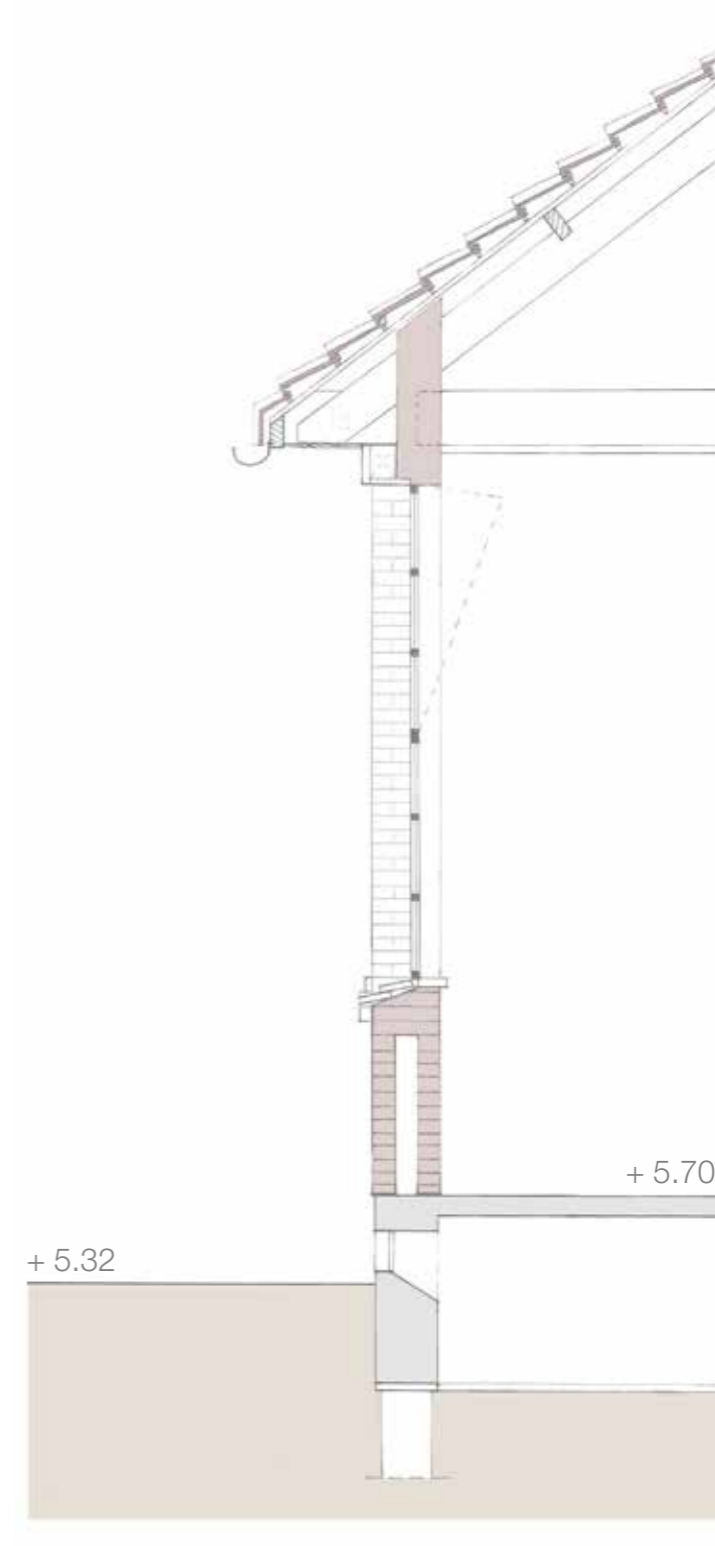


General load bearing structure

Timber roof construction (hanging rafters)

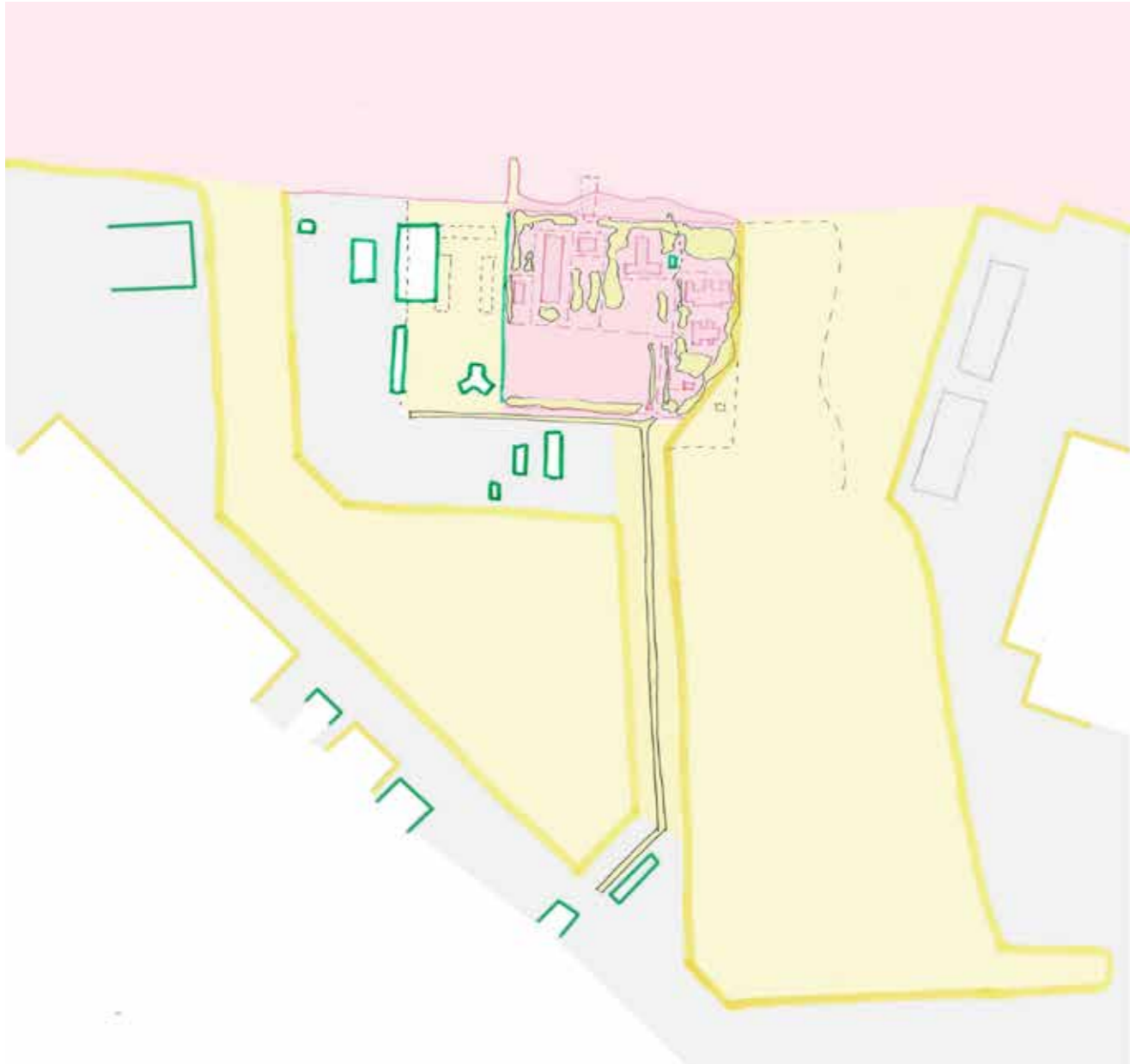
Brick masonry - cavity wall

Concrete foundation on wooden piles



Technical section

Valuation

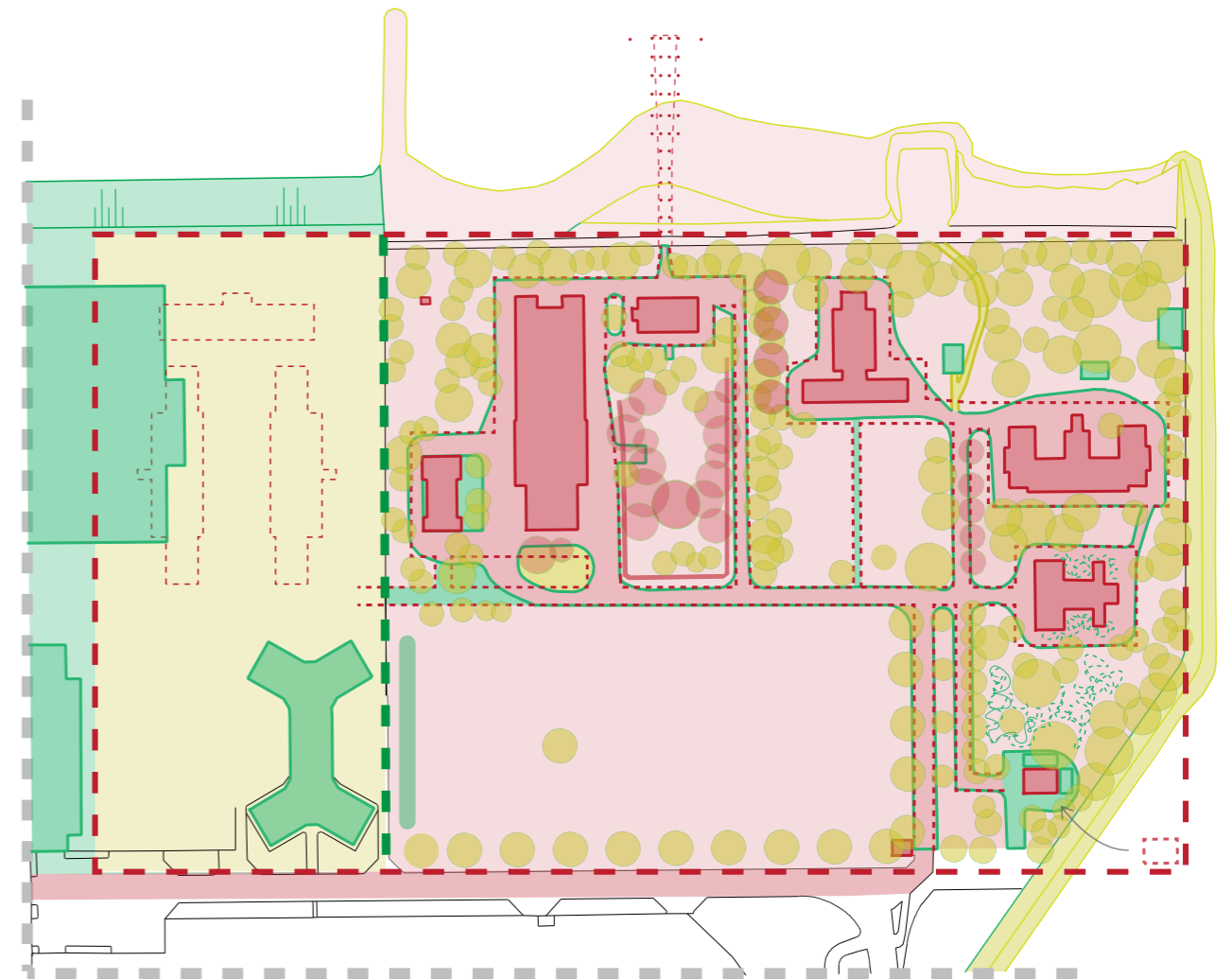


Cultural historical

- reflects an essential part of shipping and health care culture in the early 20th century

Uniqueness

- original suggested function as quarantine area
- the current green structure > special in Rotterdam



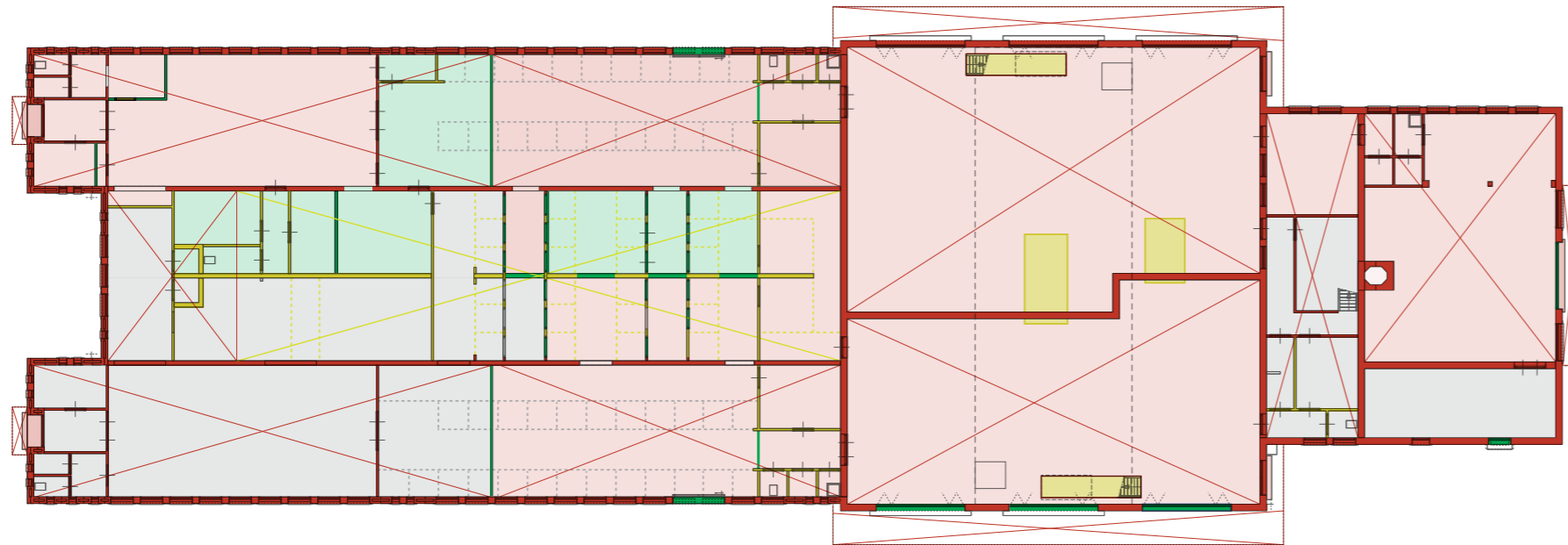
Ensemble value

- Landscape elements: water, beach, quays, green
- Buildings: pavilion structure, one architectural language
- Remote positioning in its contracting context.

Spatial quality/experience

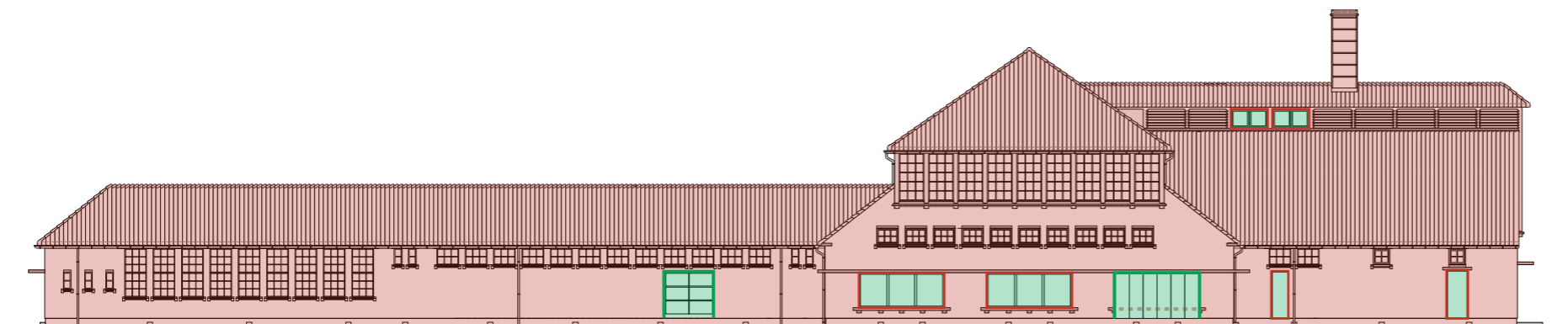
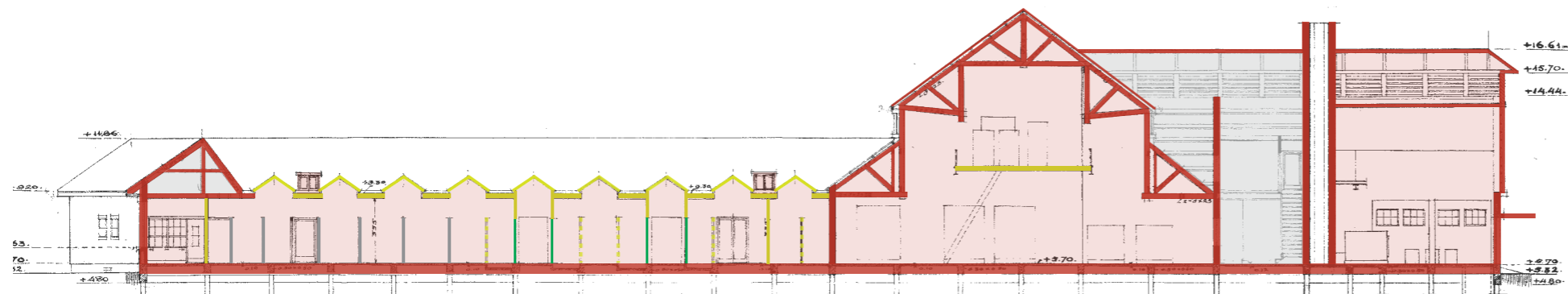
The spatial quality between the current green structure and the buildings, forming different outdoor spaces.

Valuation buildings



- Main bearing structure (indicating the zoning of the building)

- Exterior of building volume (one layer base volume with roof landscape)



Valuation of atmospheres

Idyllic and village like



Buildings in the green



Architectural expression



Clinical atmosphere



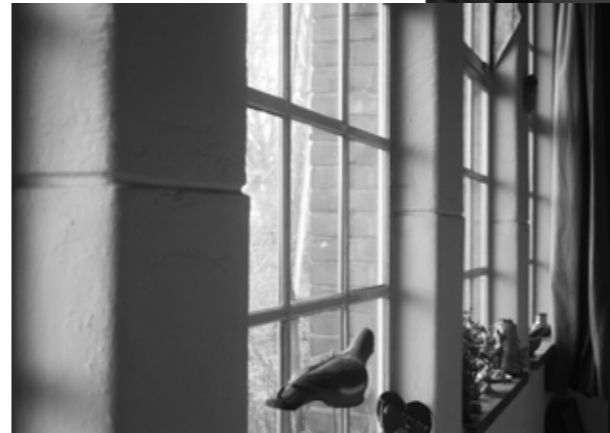
Additions to interior atmosphere



Bare and sober (original)



Nature and seasons



Interior details



Brick - human scale material

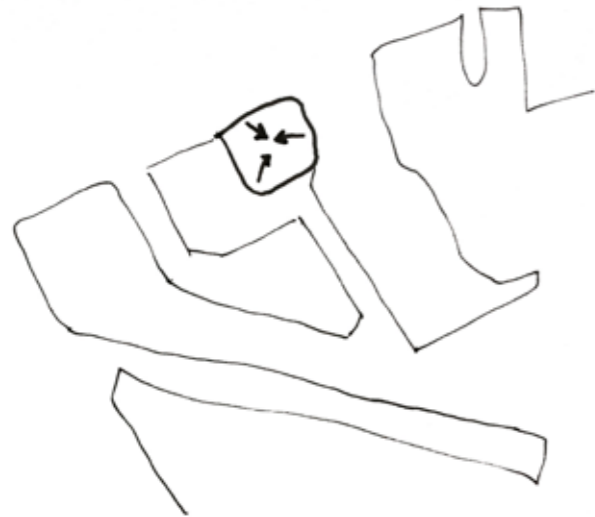


Sober interior



Clinical and sober atmosphere (original)

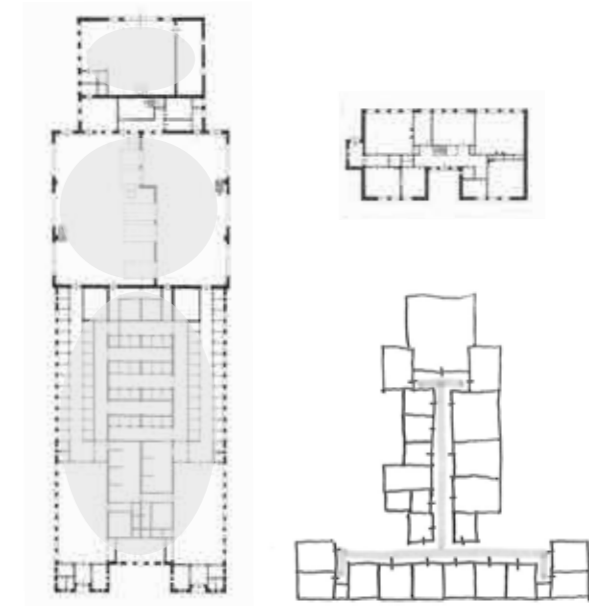
Starting points



Strengthen enclave character



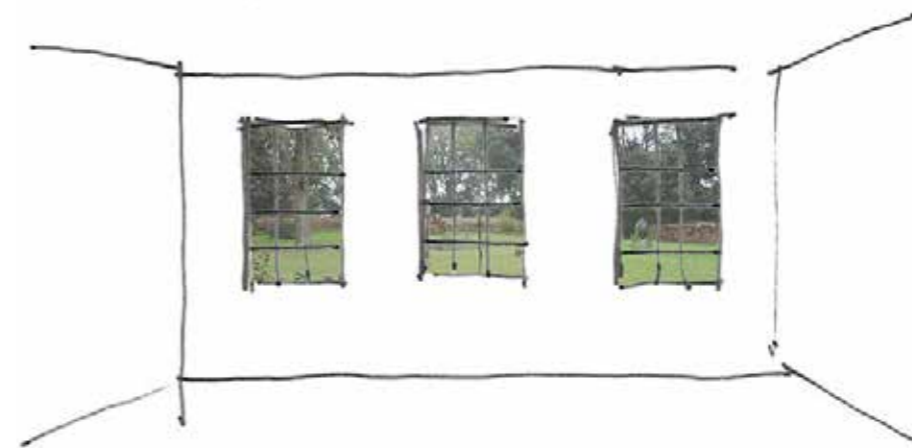
Exploit the potential of the qualitative outdoor space (functional)



Search for functions that fit the specific building typologies

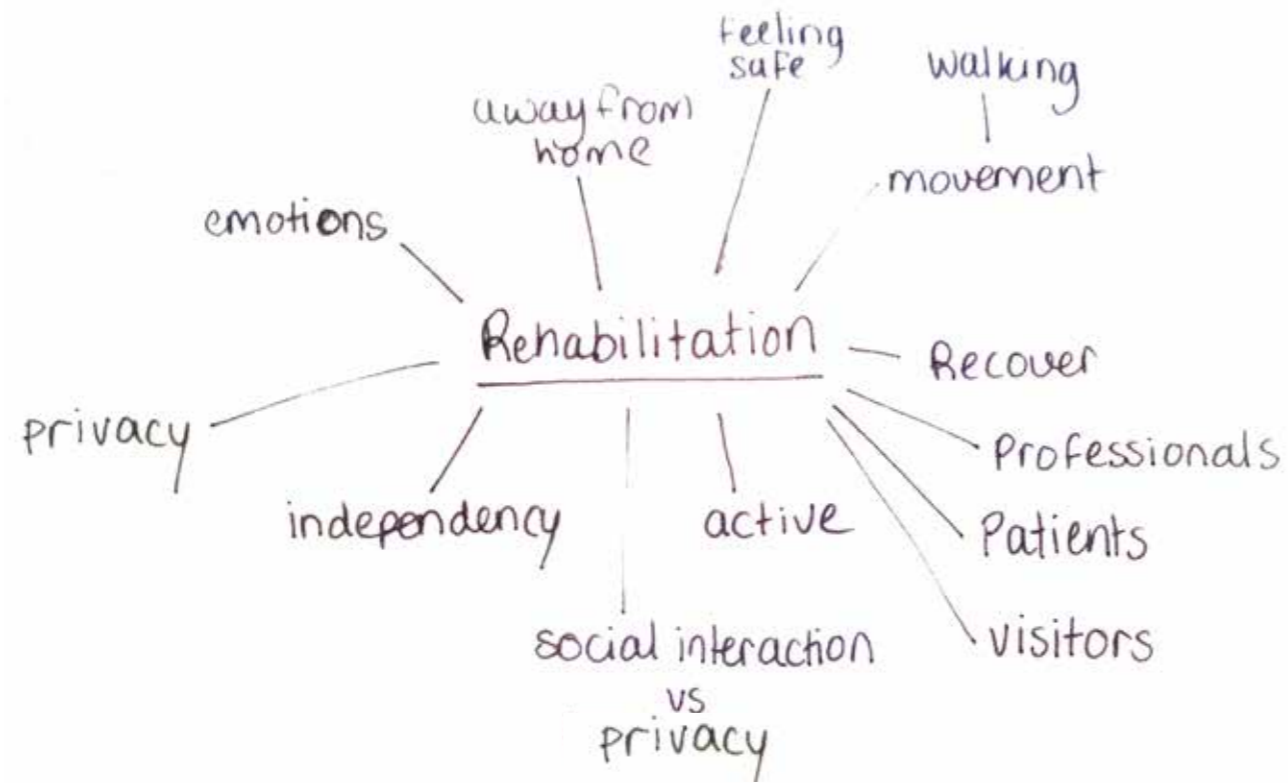


Use the village character



Create a meaningful relation between outside and inside space

Program - Rehabilitation centre



Rehabilitation centre

A quite green place at the boarder of Rotterdam to rehabilitate.

Qualities of the quarantine ensemble may have significance for the rehabilitation process.



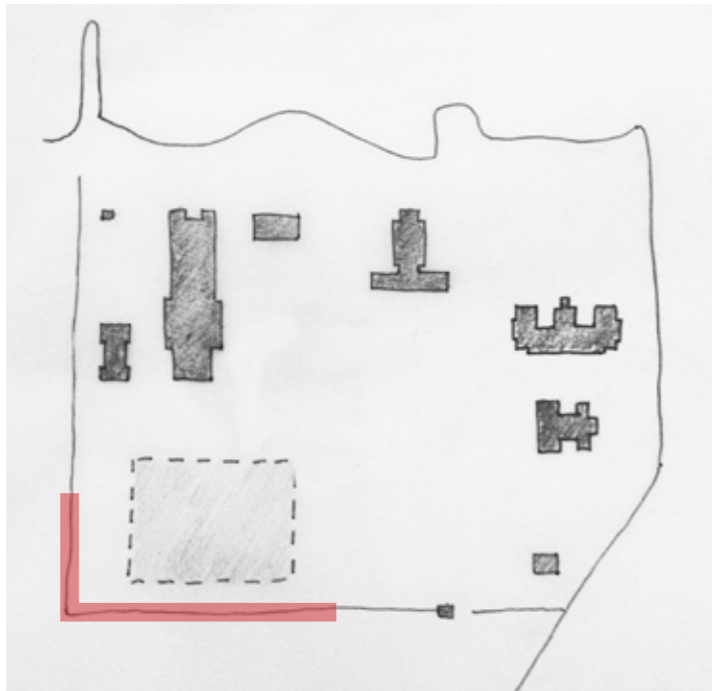
Research question design

“How can I create a coherent ensemble by adding a new layer to the existing, where outdoor space and interior space have a meaningful relation?”

Ontwerpthema's

- Beleving en sfeer
- Relatie tussen binnen en buiten
(overgangen)
- Daglichttoetreding
- Schaal en compositie

Concepts



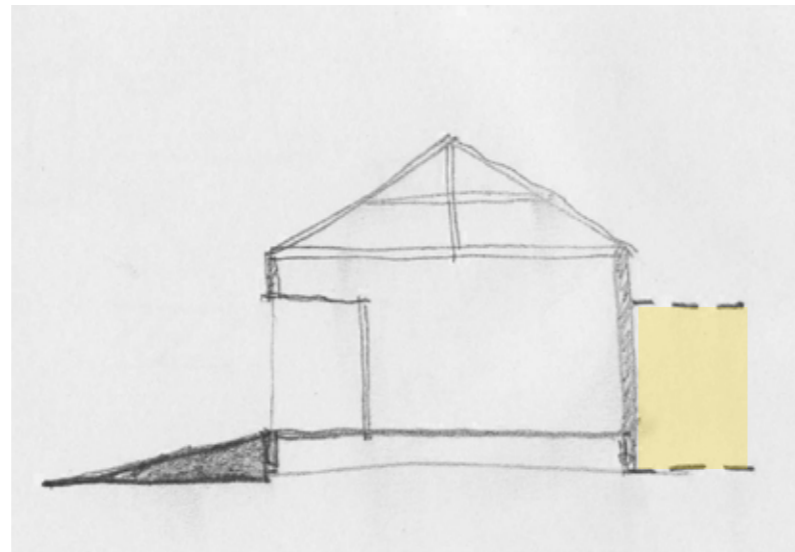
Using the new volume to strengthen the corner



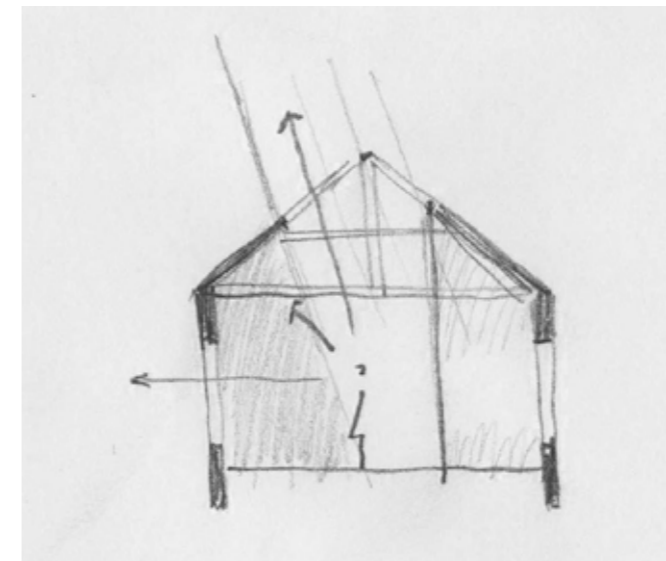
Zones



Movement - routing outside continues inside the buildings

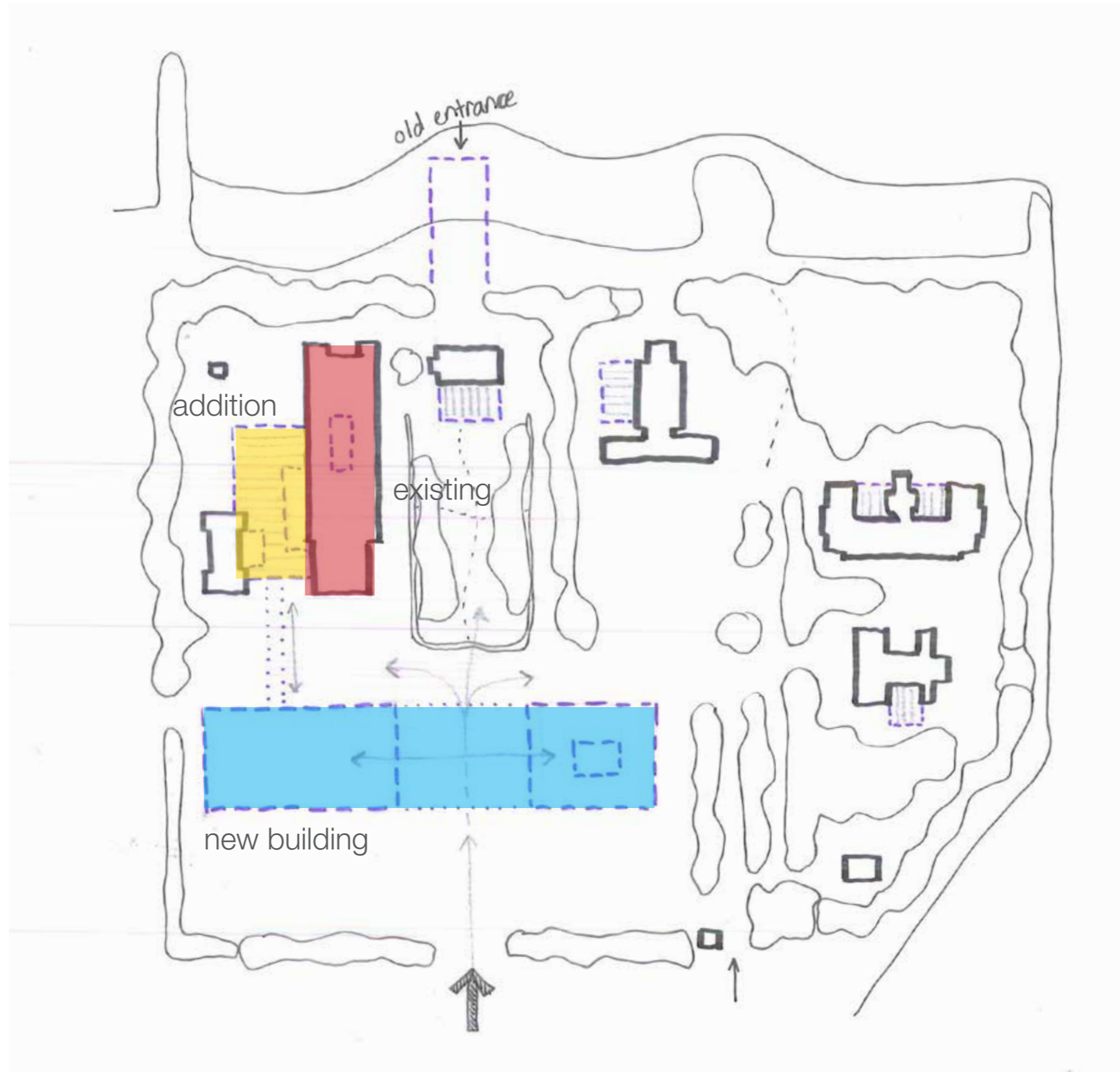


Accessibility and connections

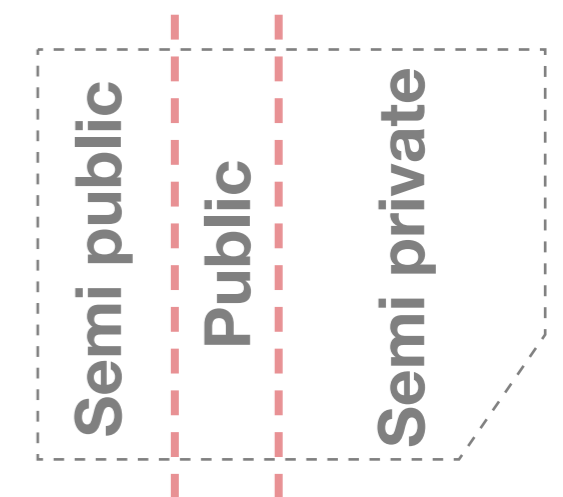
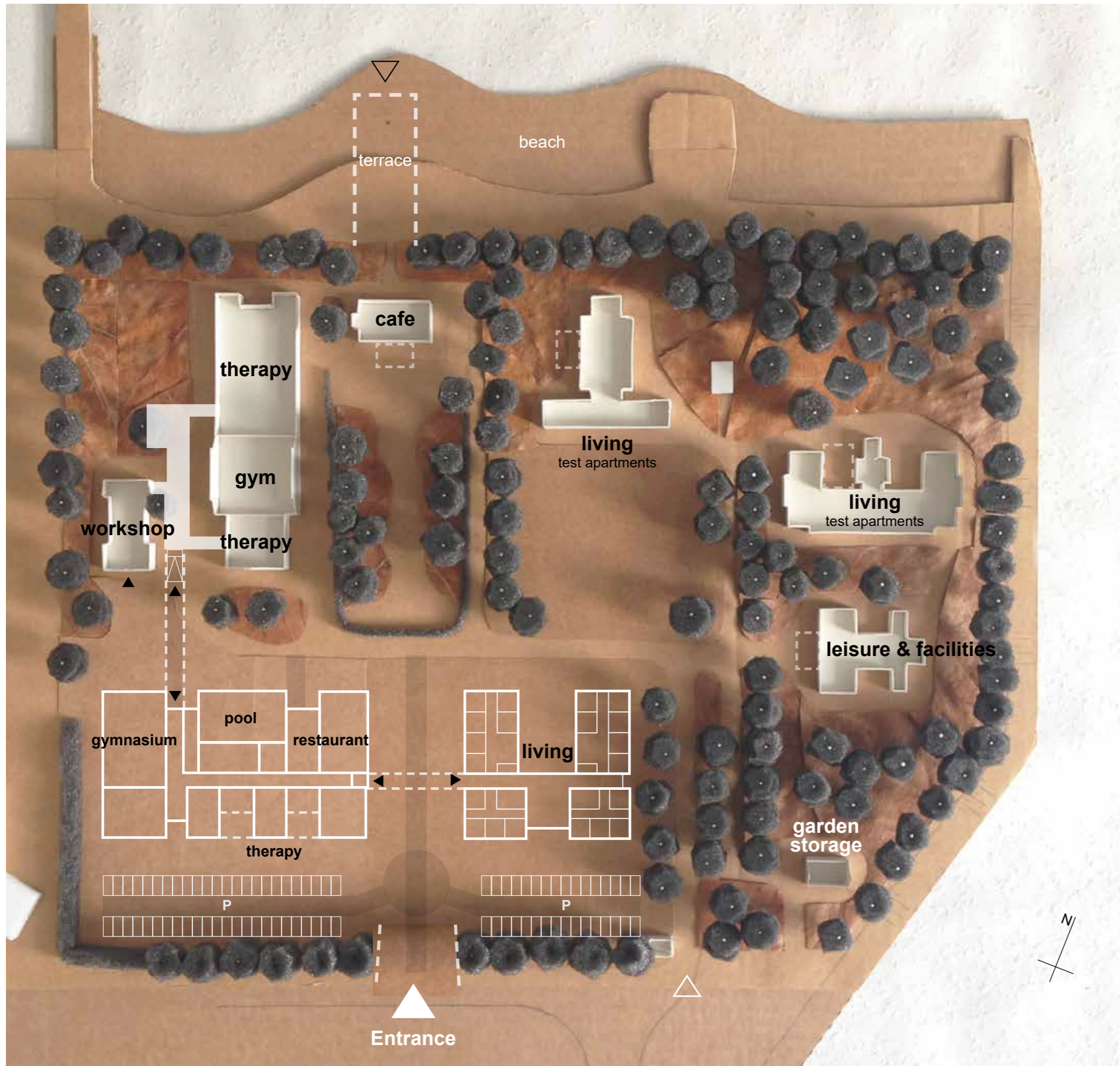


Thinking about the relation between inside and outside in the existing and added buildings.

Interventions



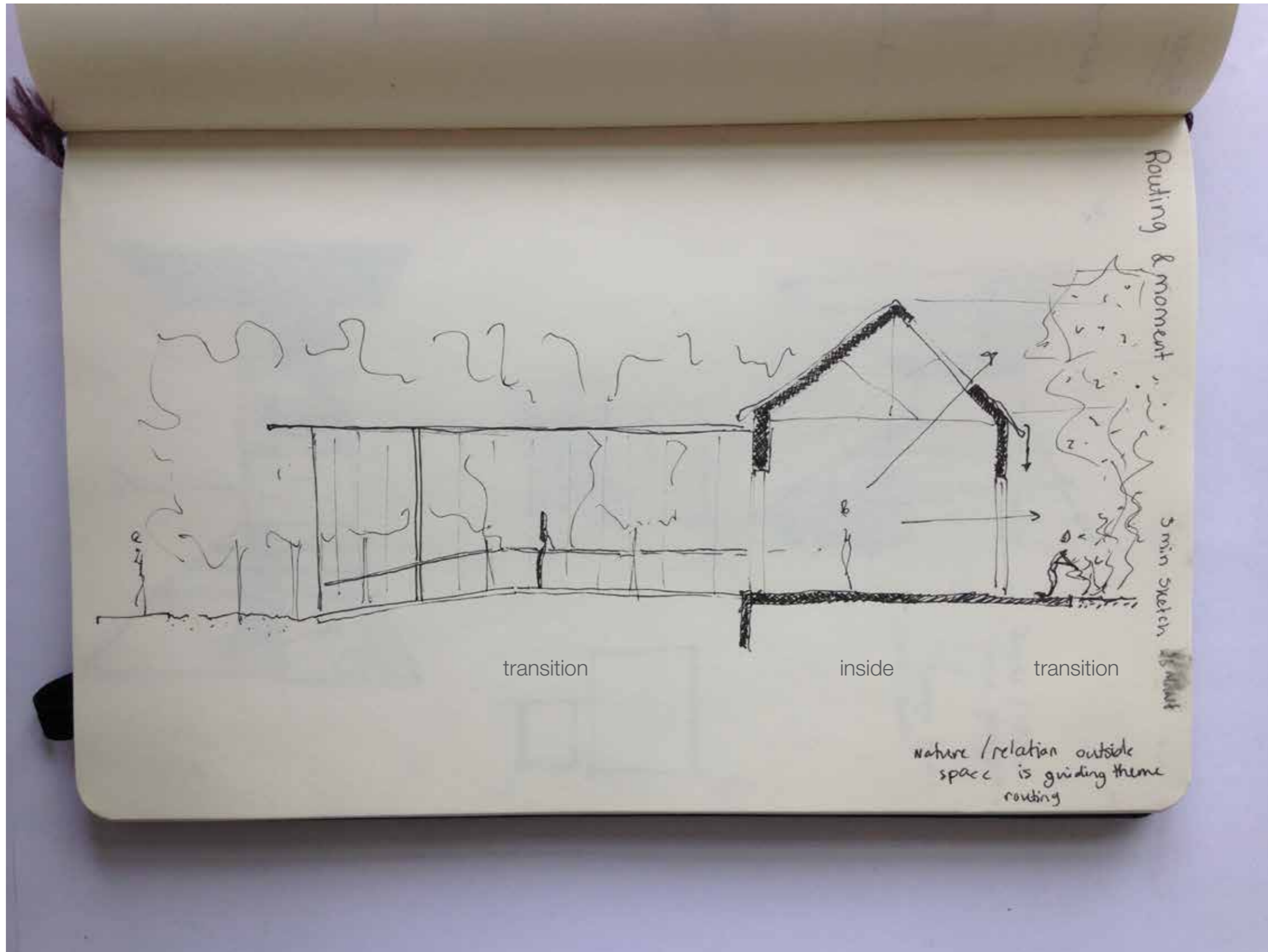
Organization program



Organization outdoor space

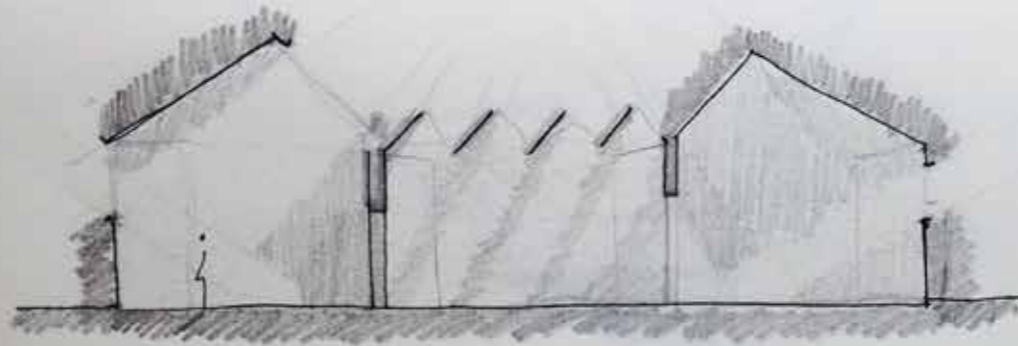


Intervention existing



zicht naar buiten

Interior experience

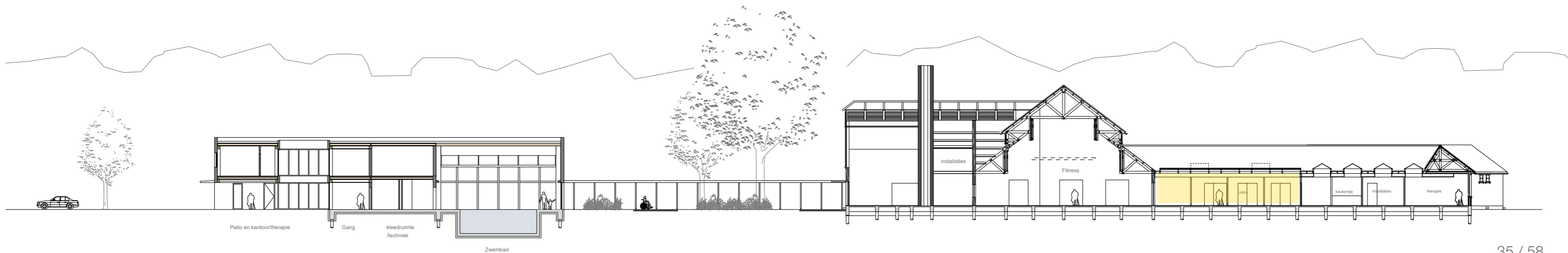
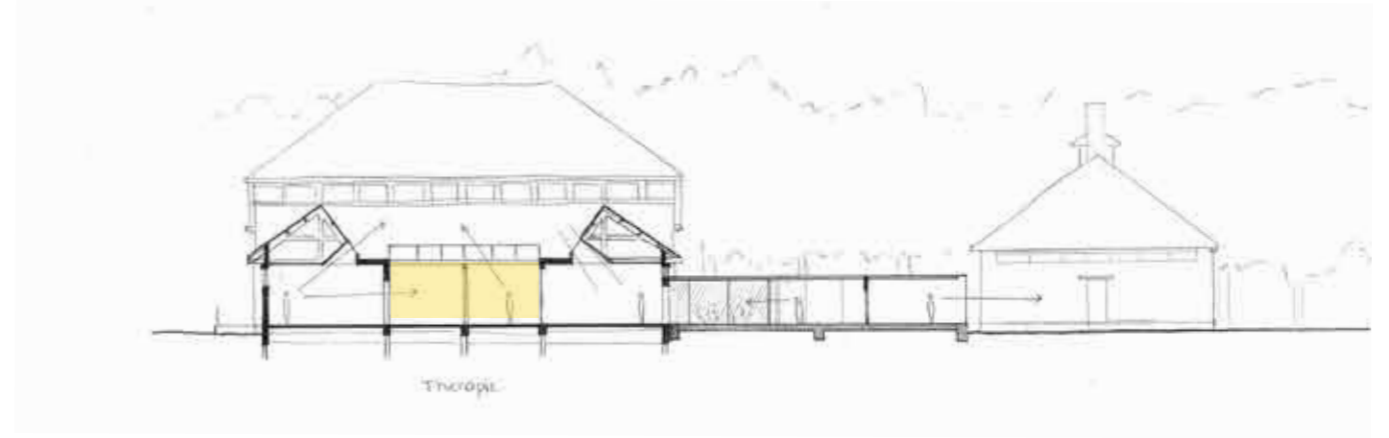
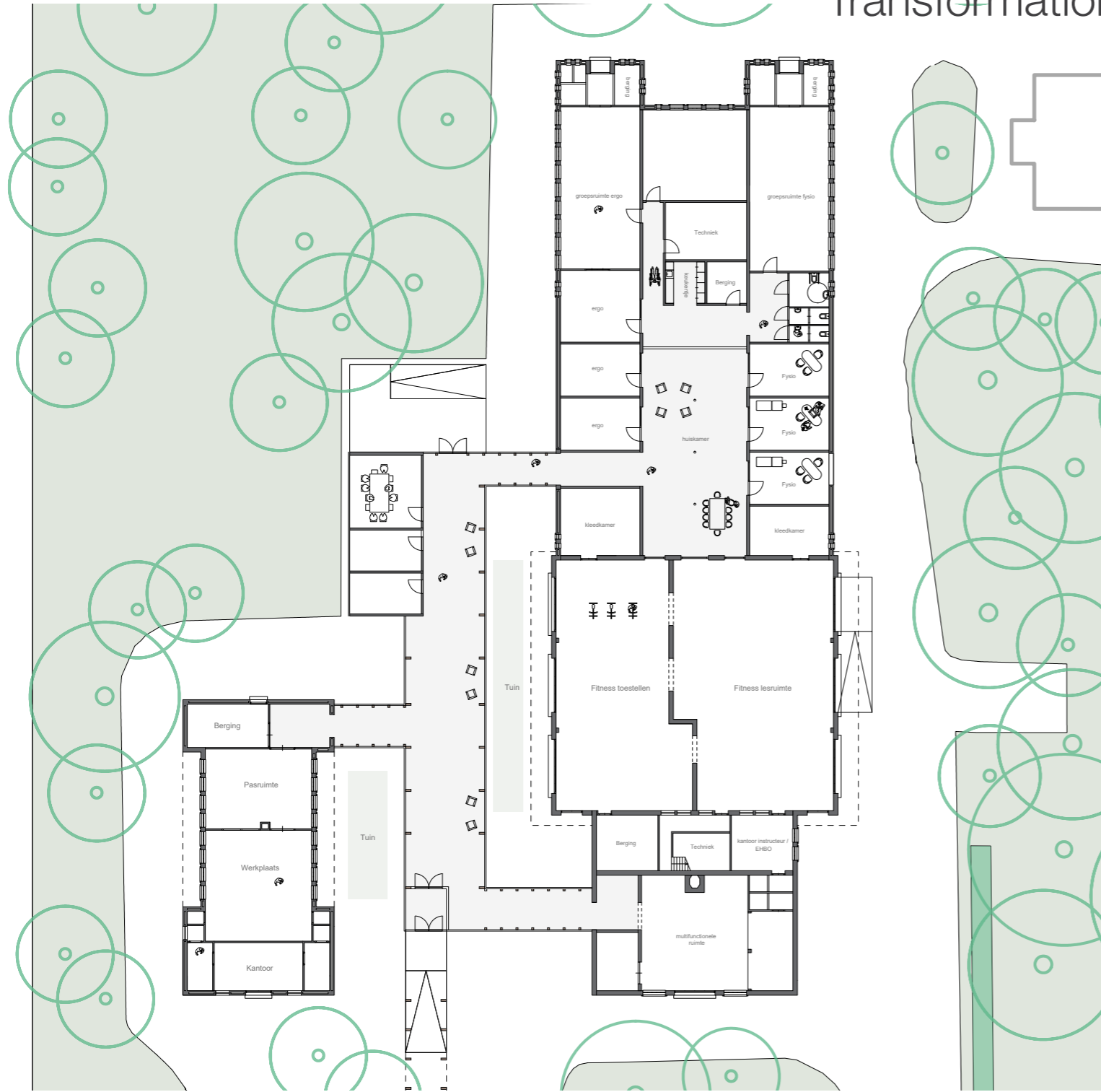


Opening up the roof to make the interior more light and lively.

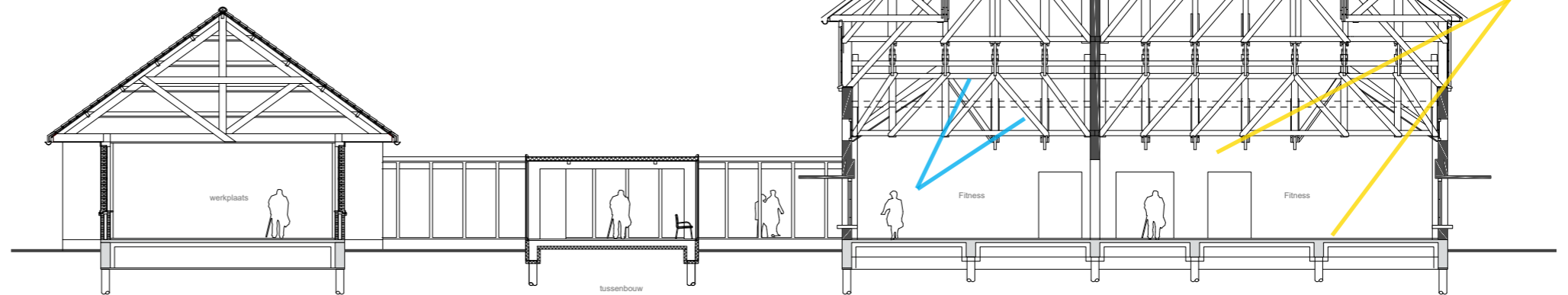
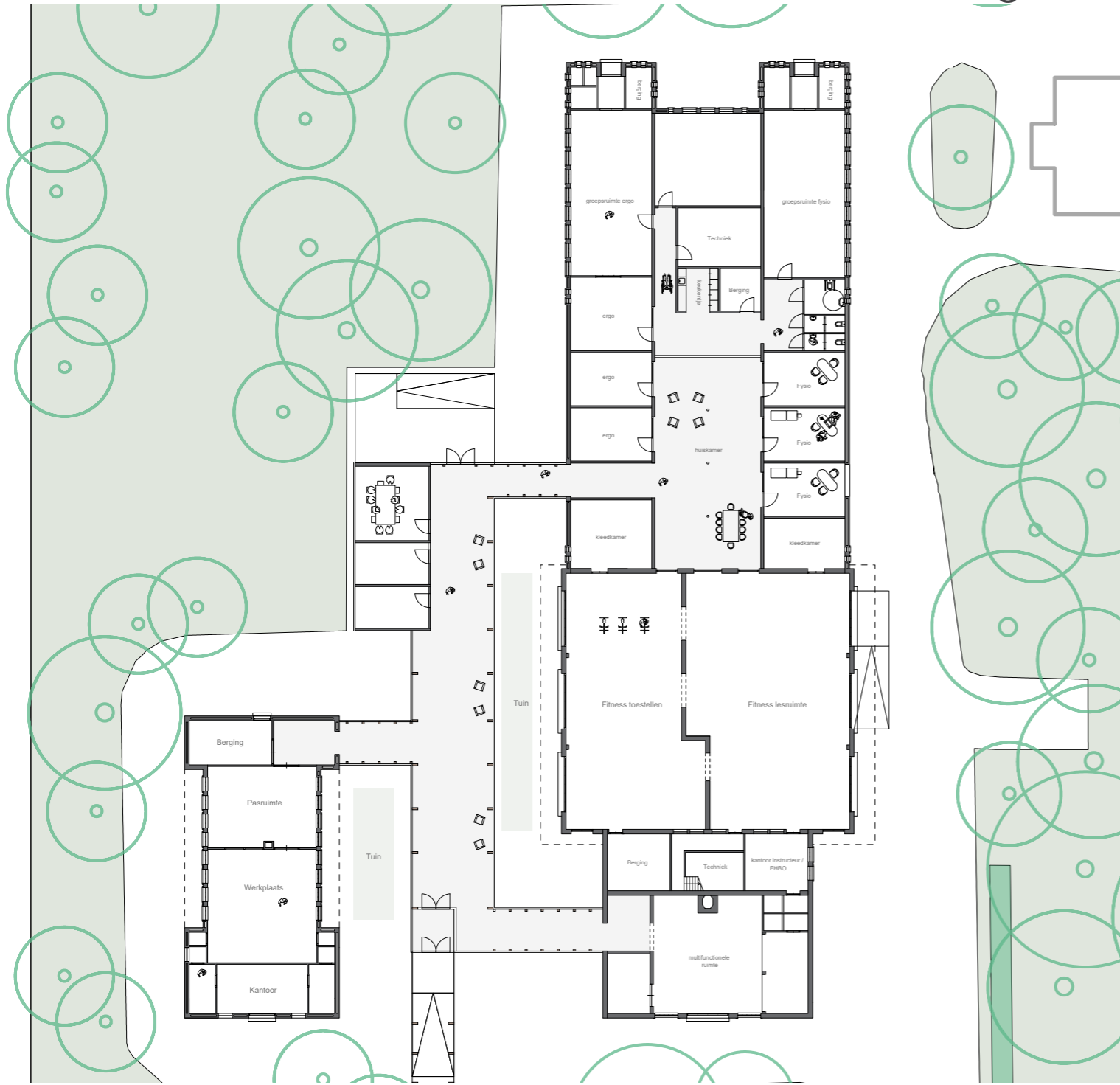


Visible roof construction influences the interior spatiality.

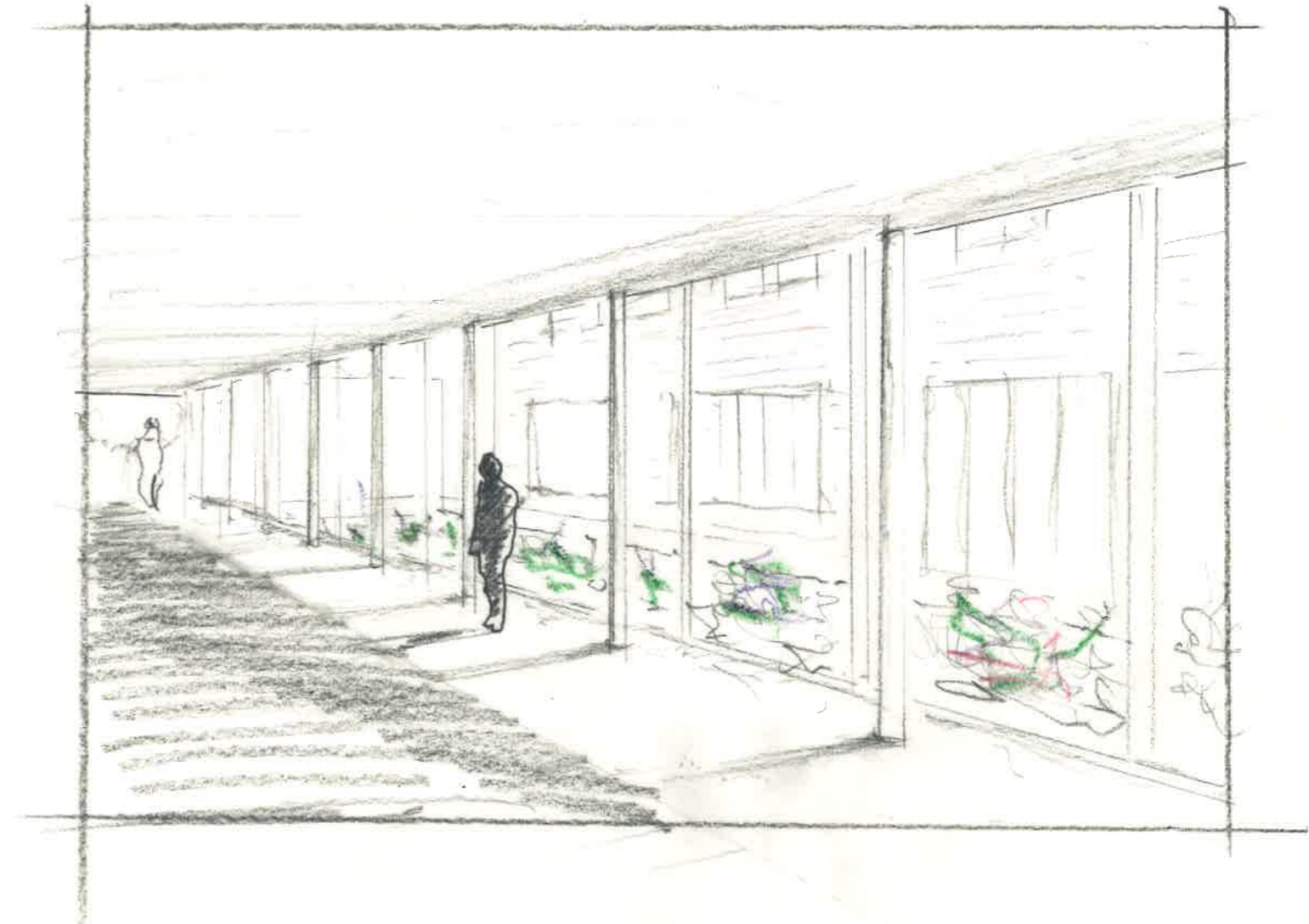
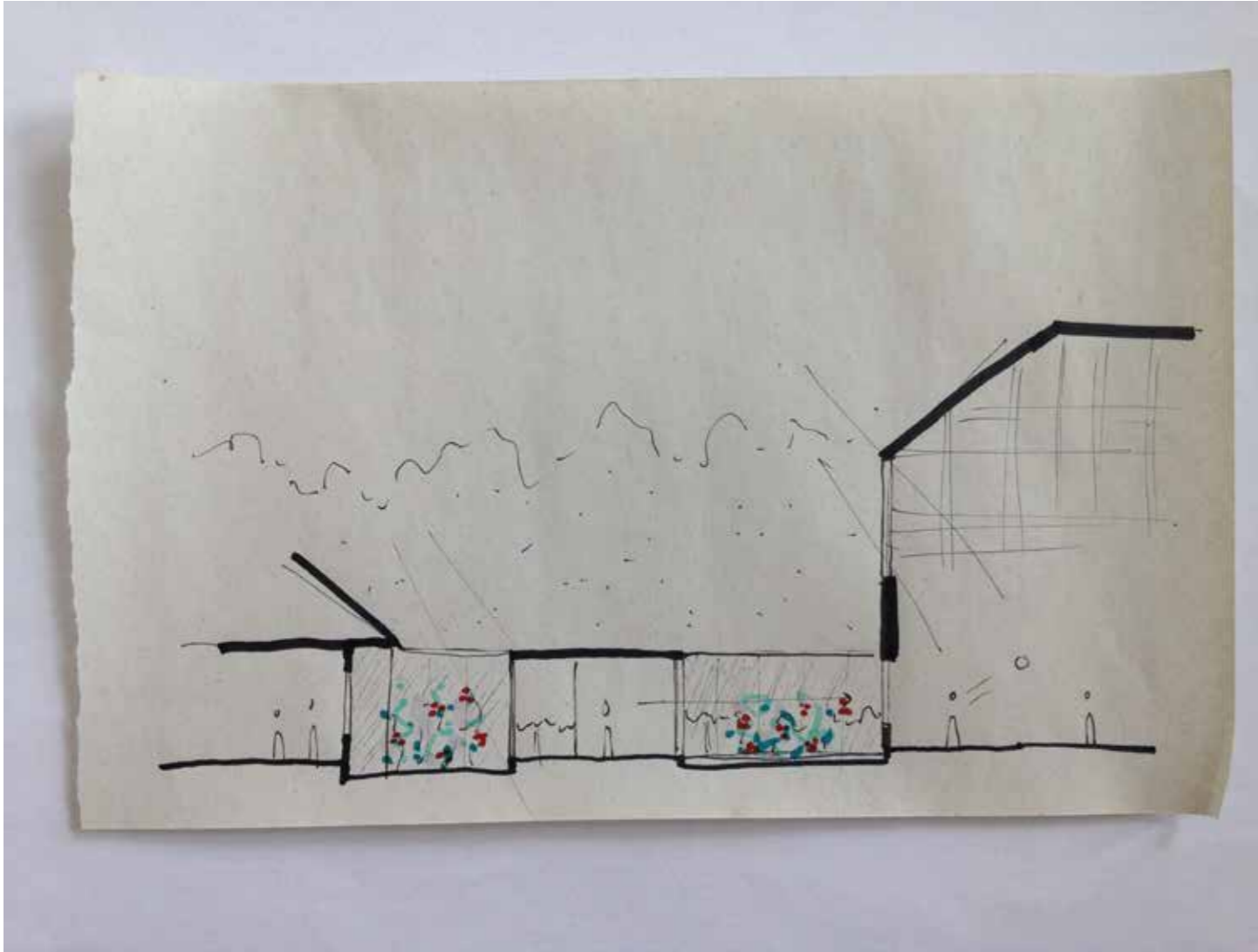
Transformation existing



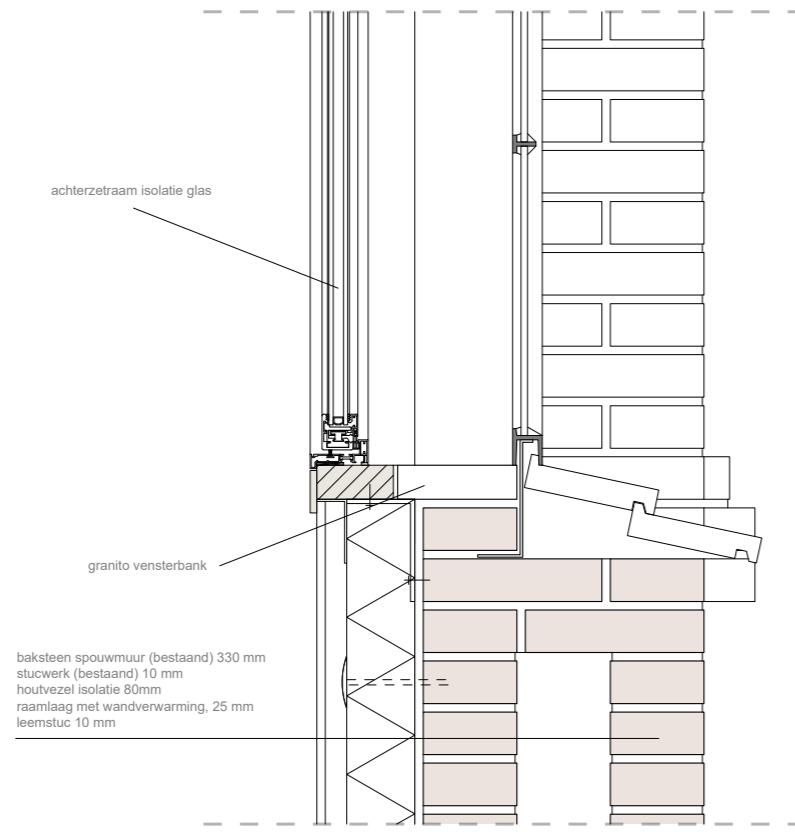
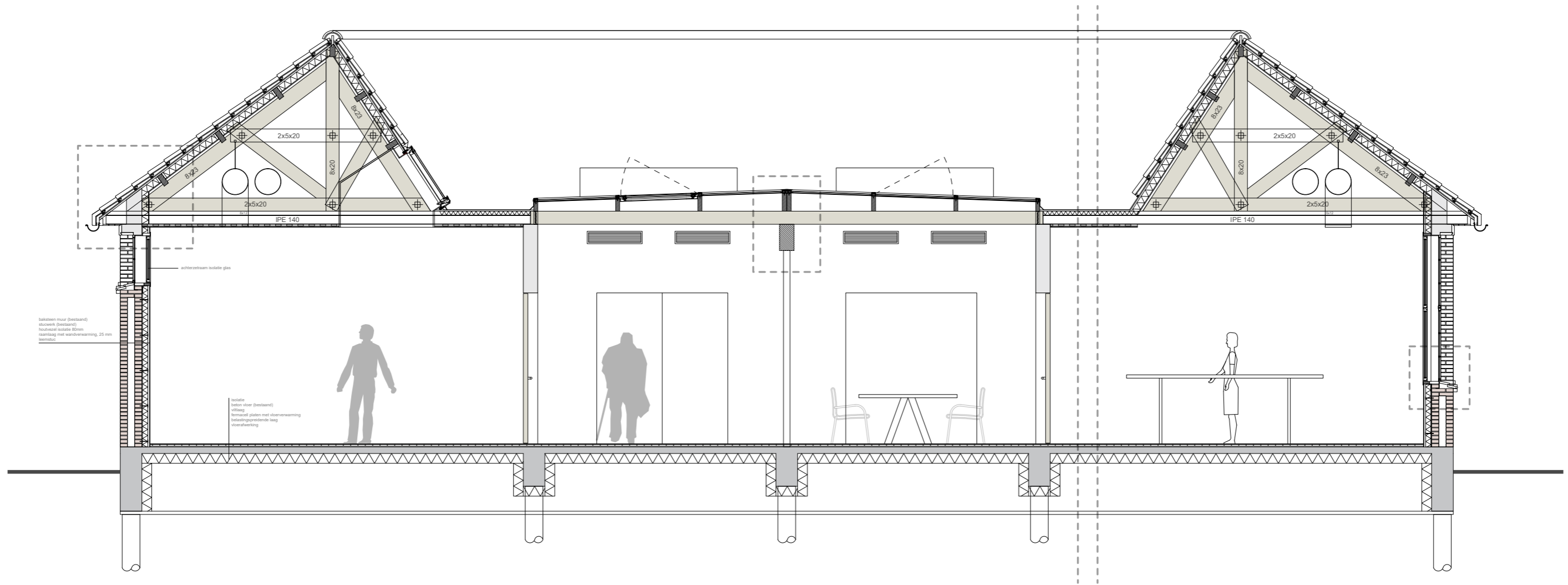
Existing and addition



Addition connected to existing

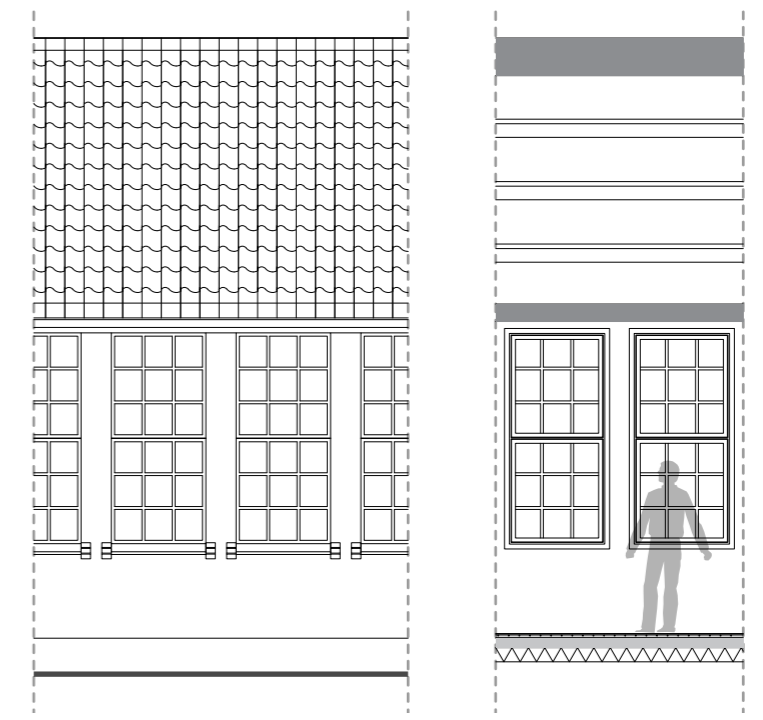


Bouwtechniek



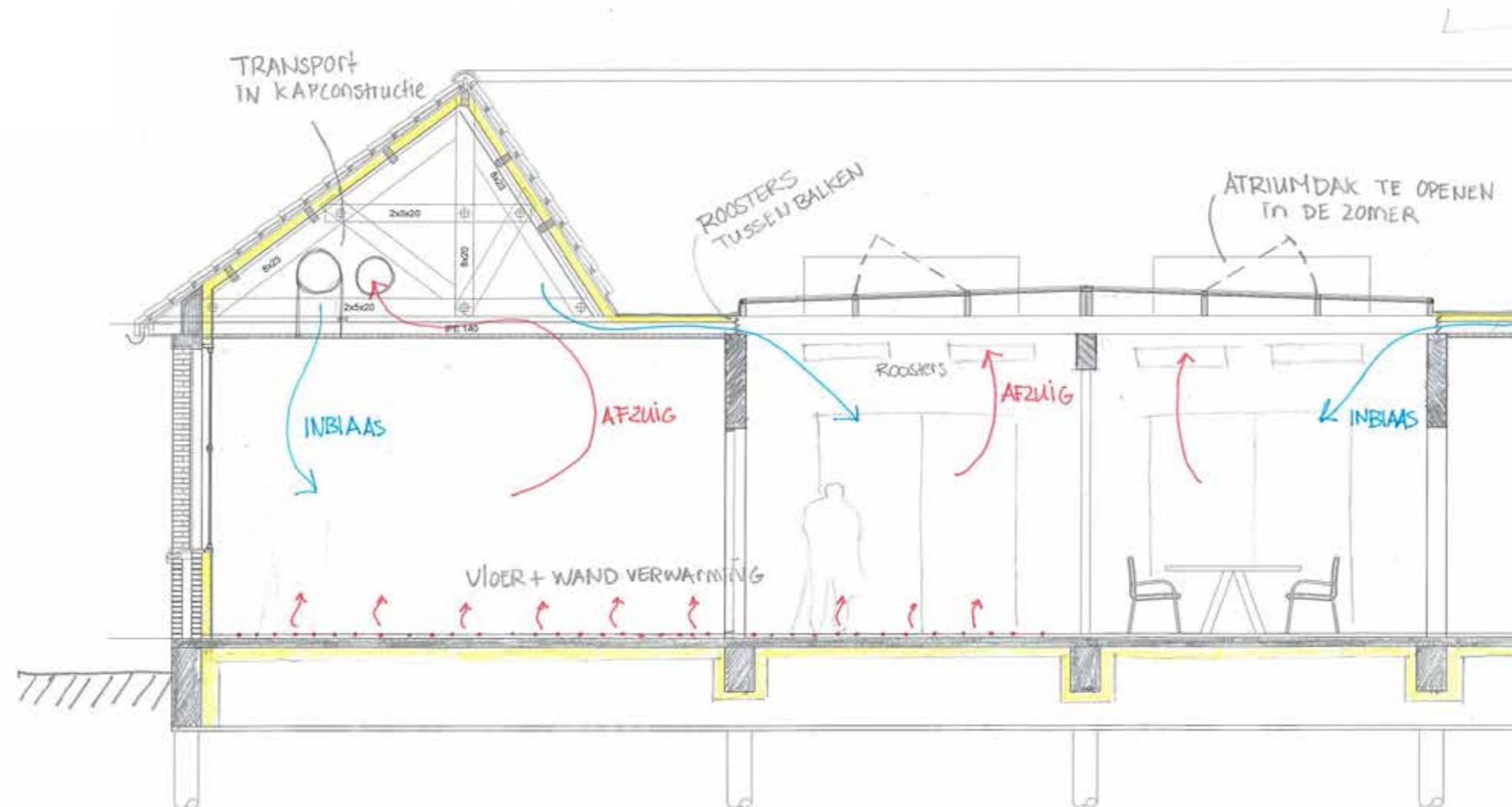
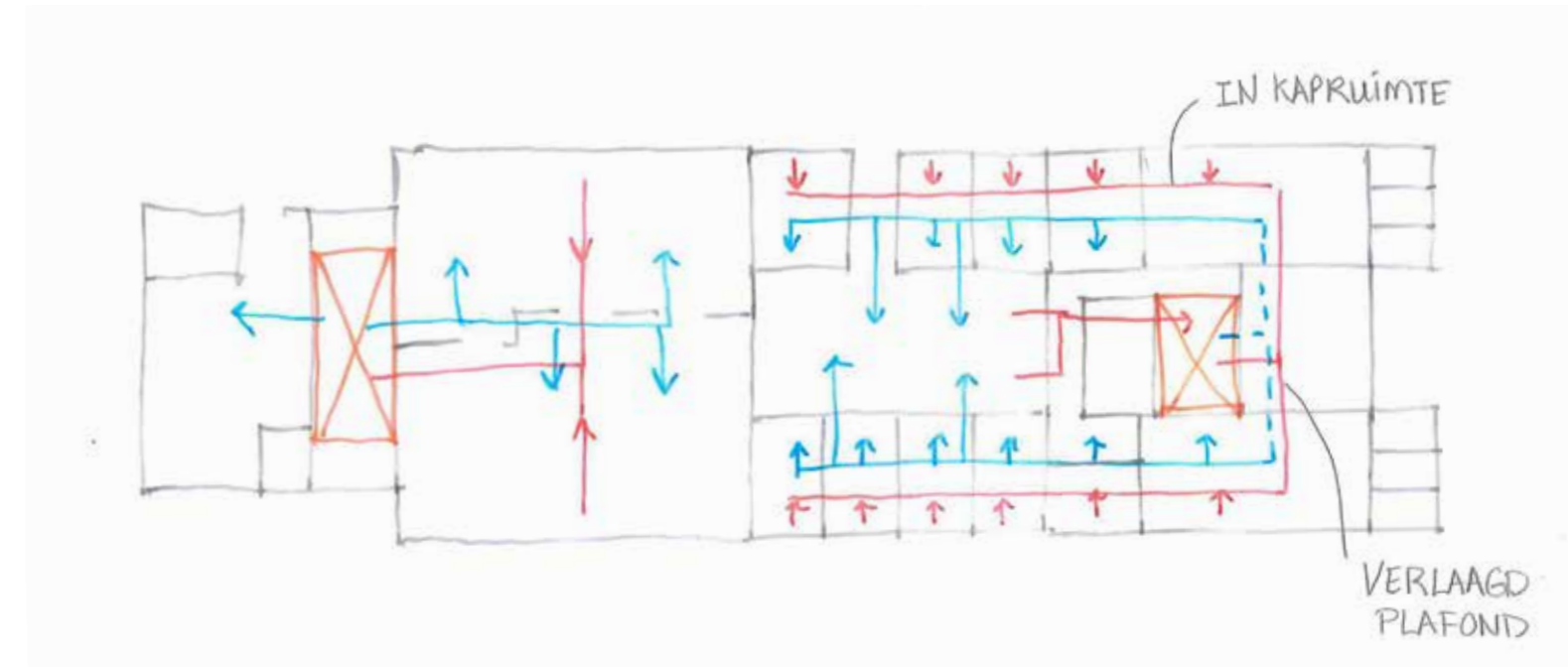
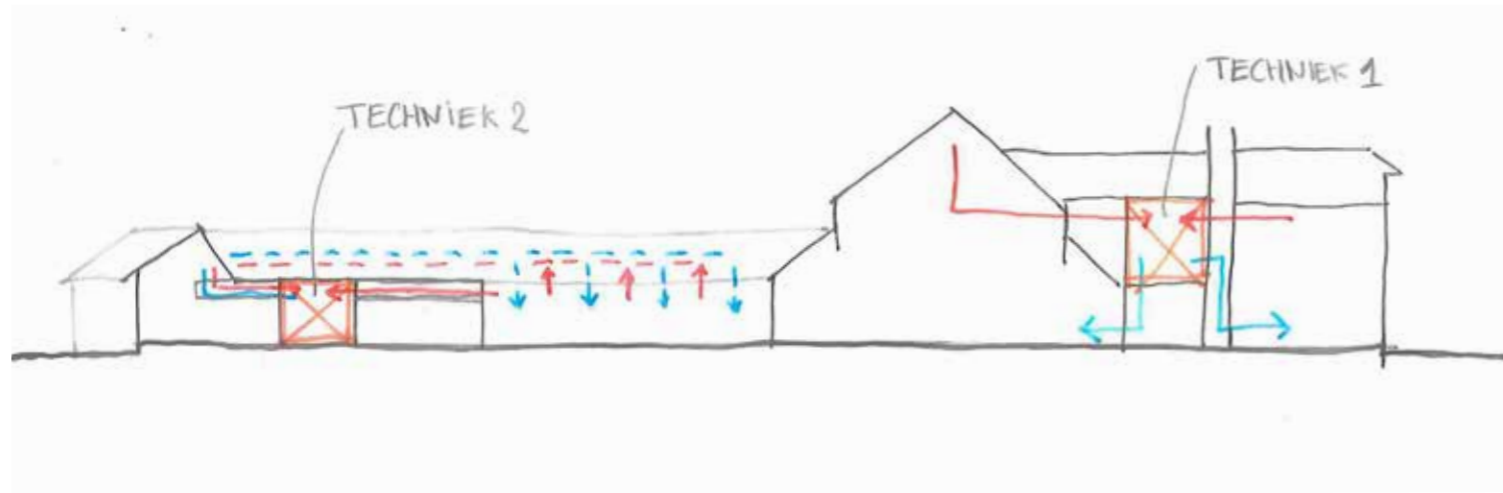
baksteen spouwmuur (bestaand) 330 mm
 stucwerk (bestaand) 10 mm
 houtvezel isolatie 80mm
 raamlaag met wandverwarming, 25 mm
 leemstuc 10 mm

Isoleren aan binnenzijde

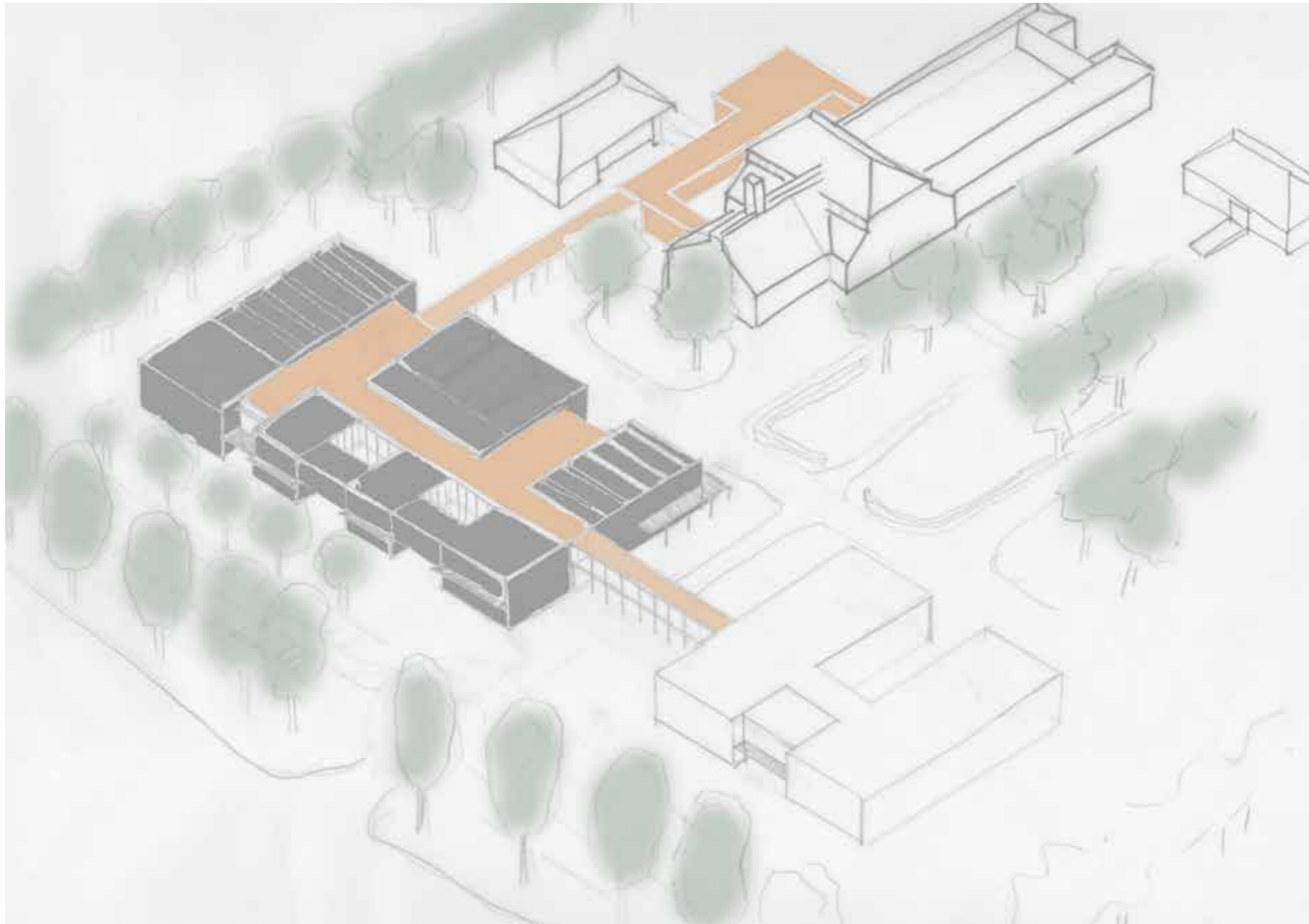


aanzicht achterzetramen

Klimaat ontwerp



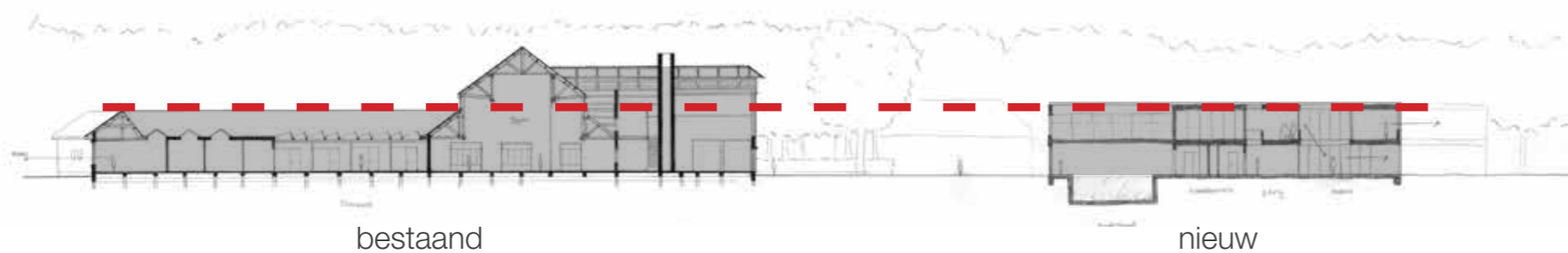
Nieuwbouw



Bouwhoogte gebaseerd op bestaande bouw

Dozen met verbindende gang

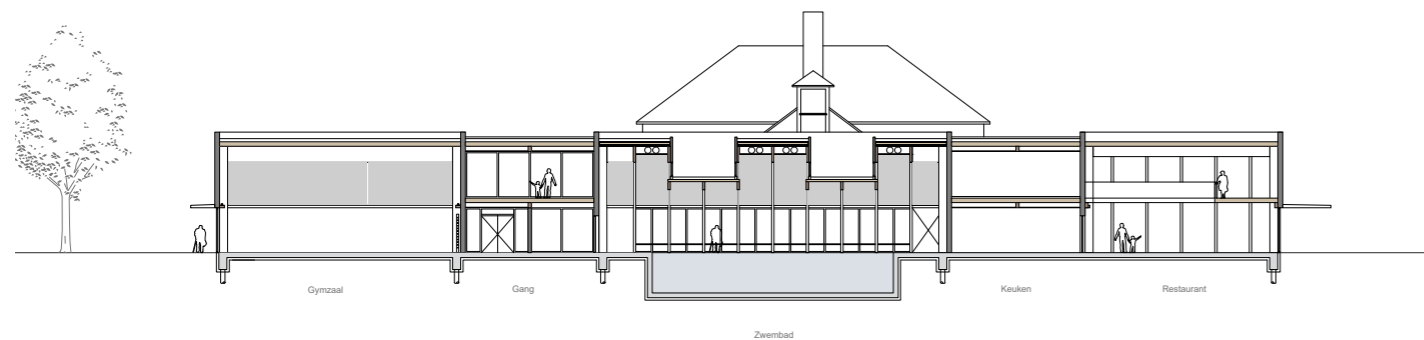
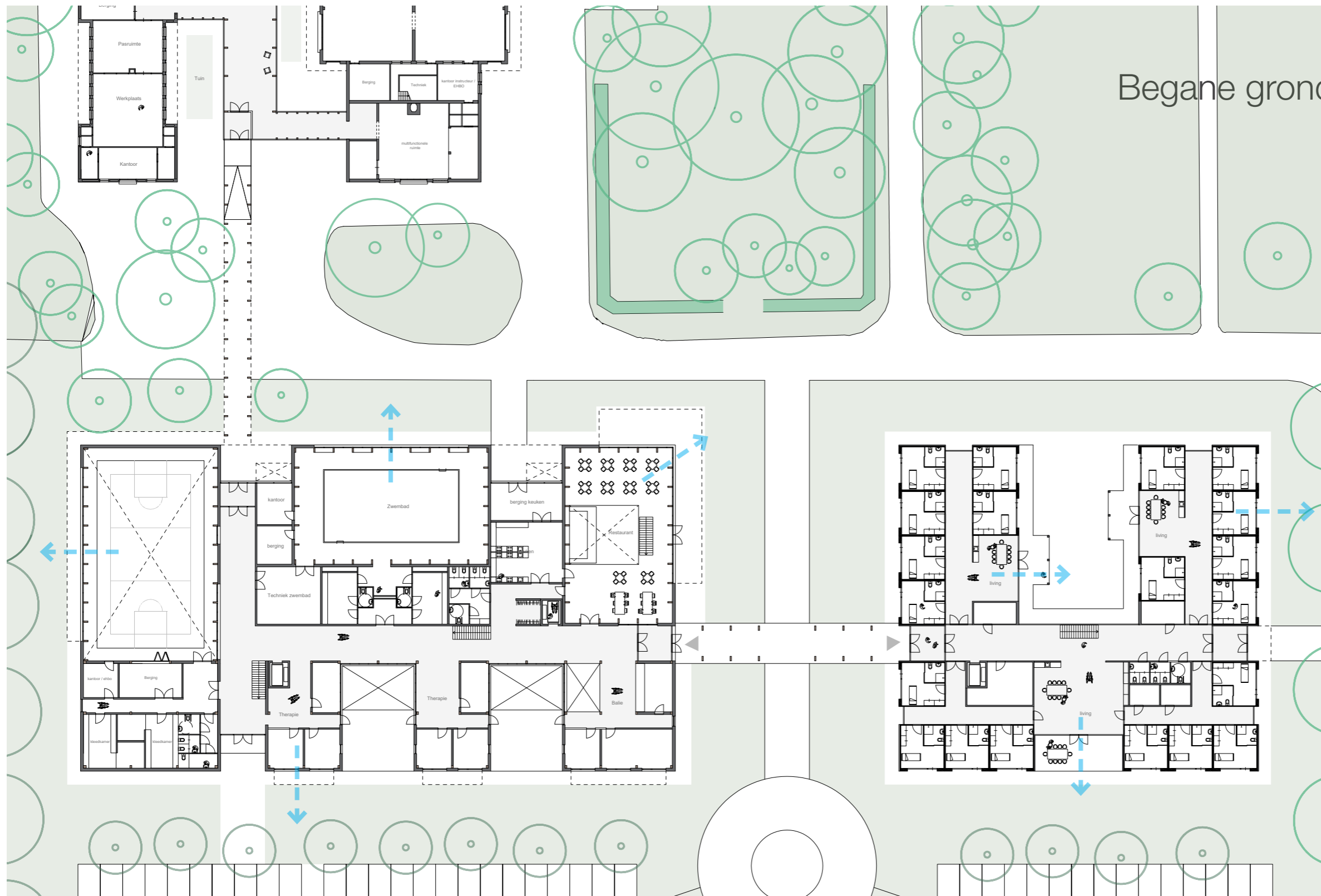
Volume met inhammen > fragmenteren en reageren op bestaande



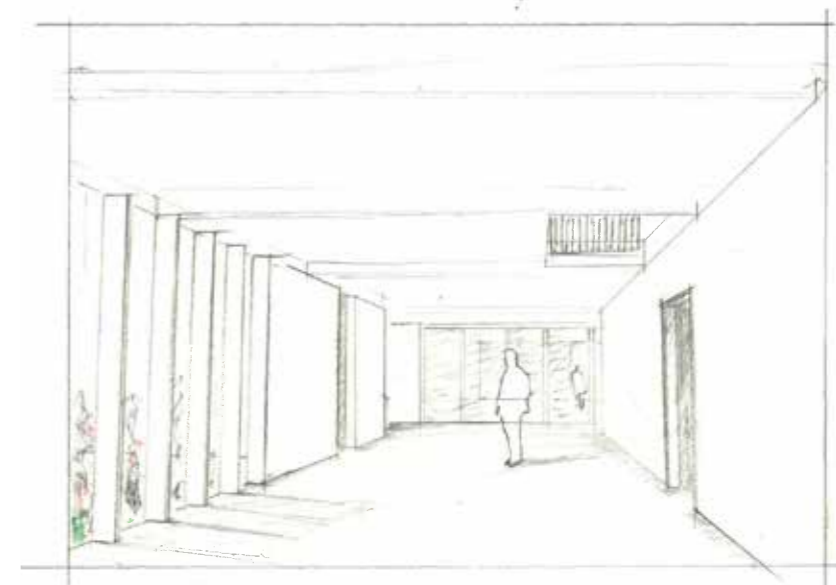
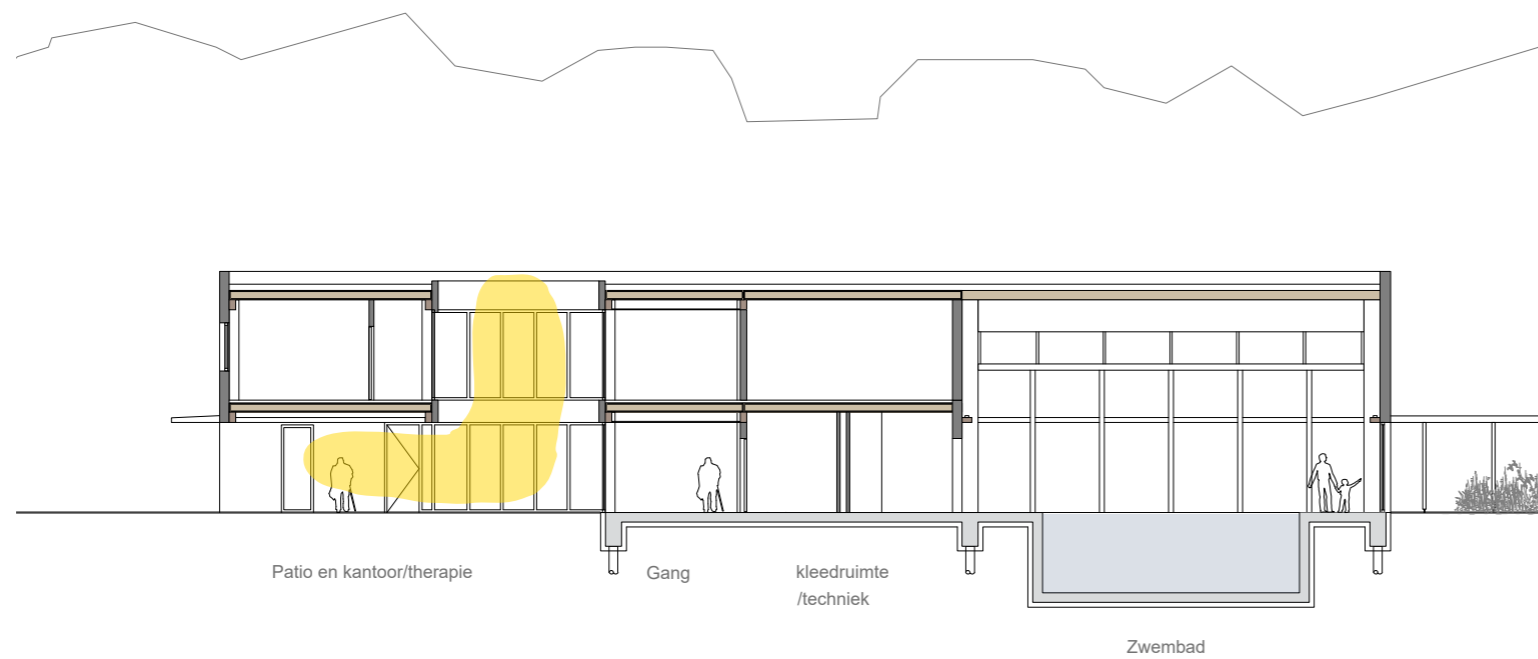
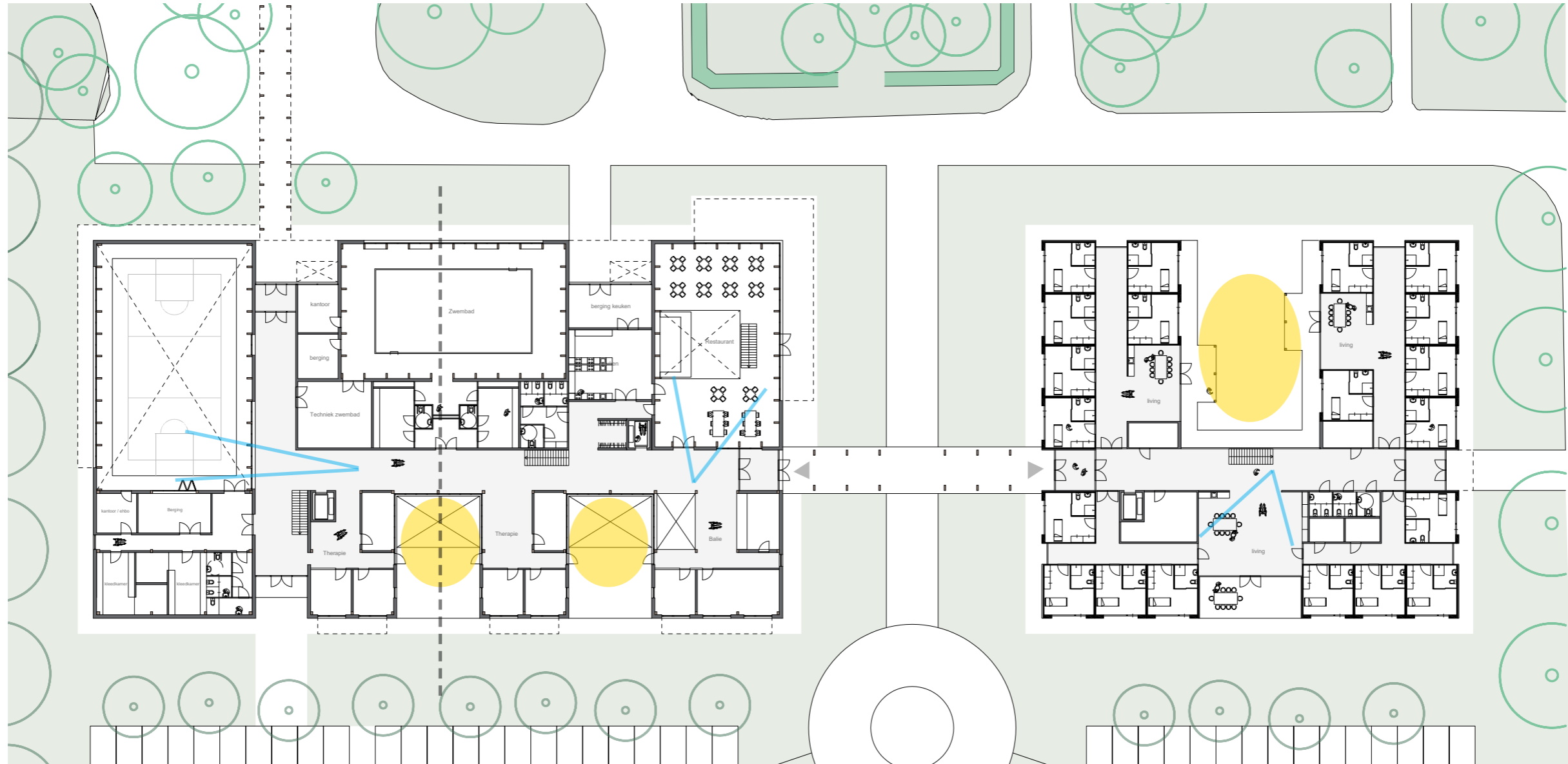
bestaand

nieuw

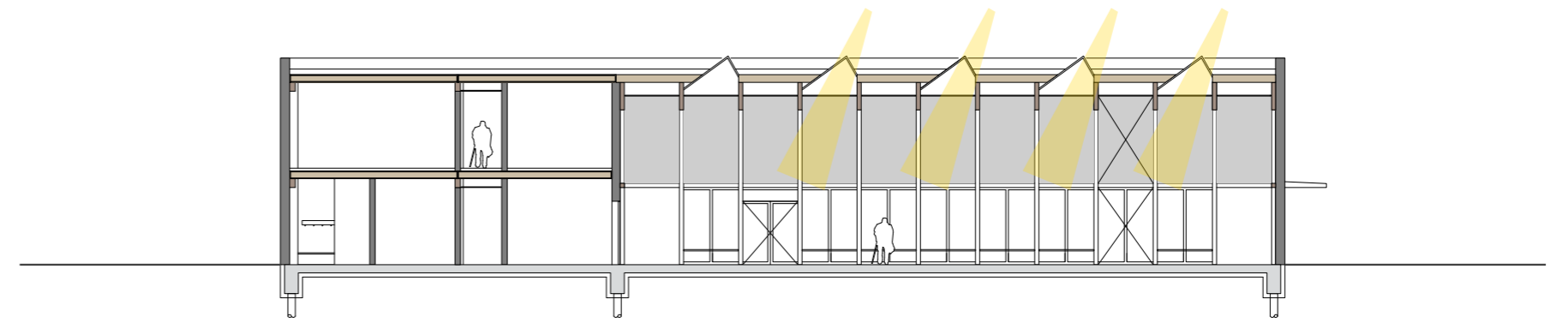
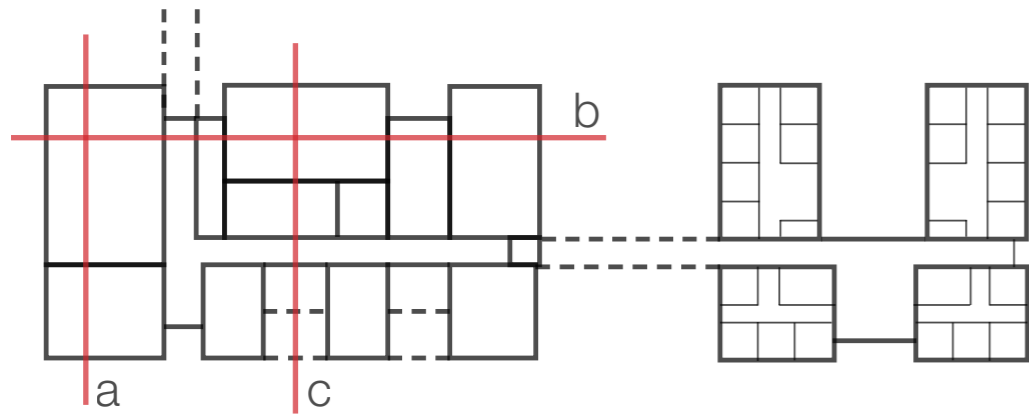
Begane grond - nieuwbouw



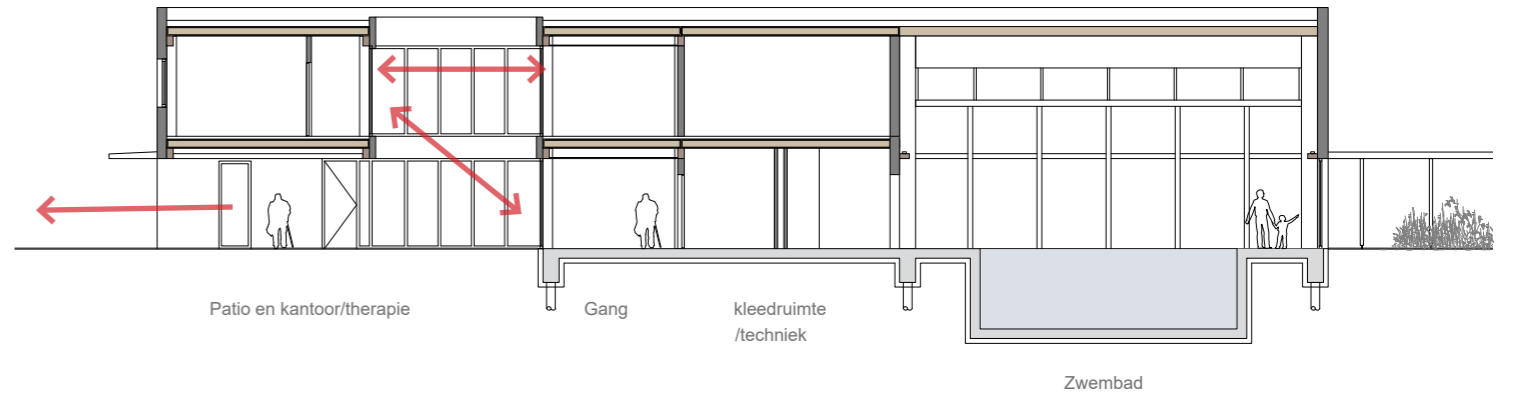
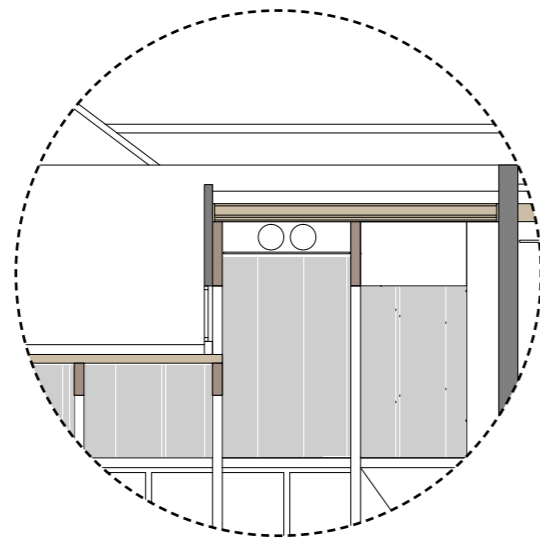
Patios and views



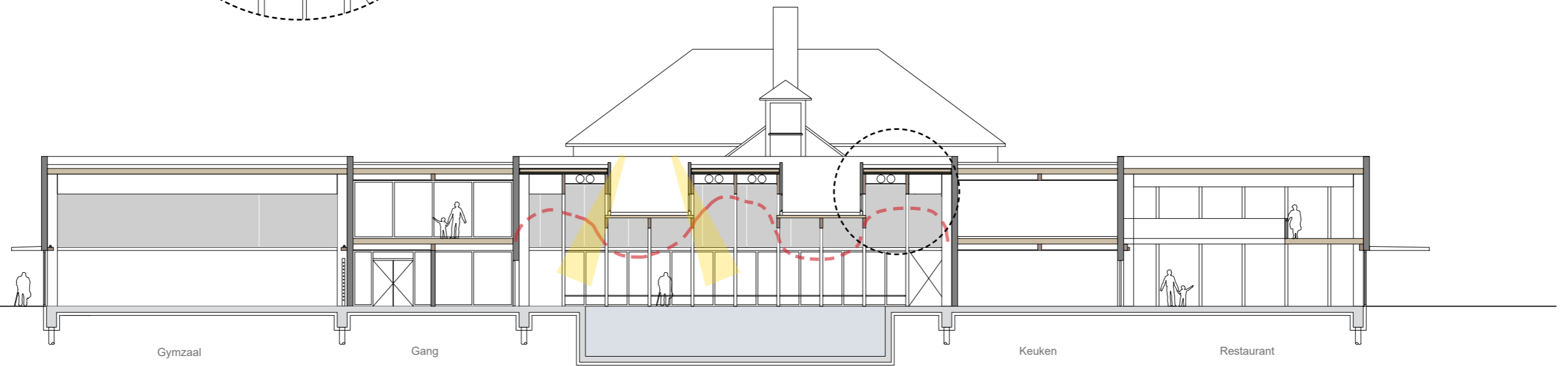
Licht, zicht en beleving



snede a

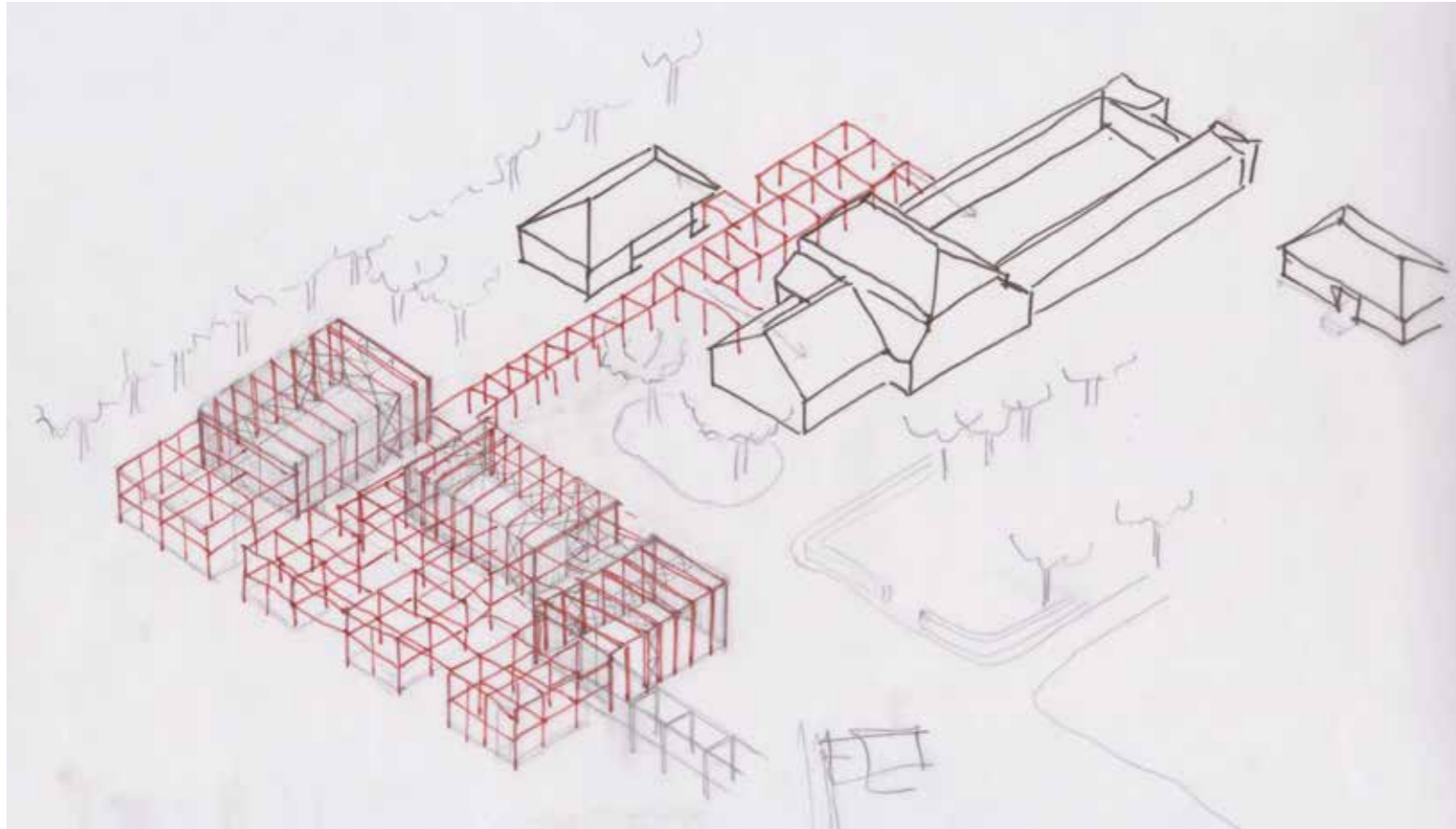


snede c



snede b

Constructie - nieuwbouw en tussenbouw

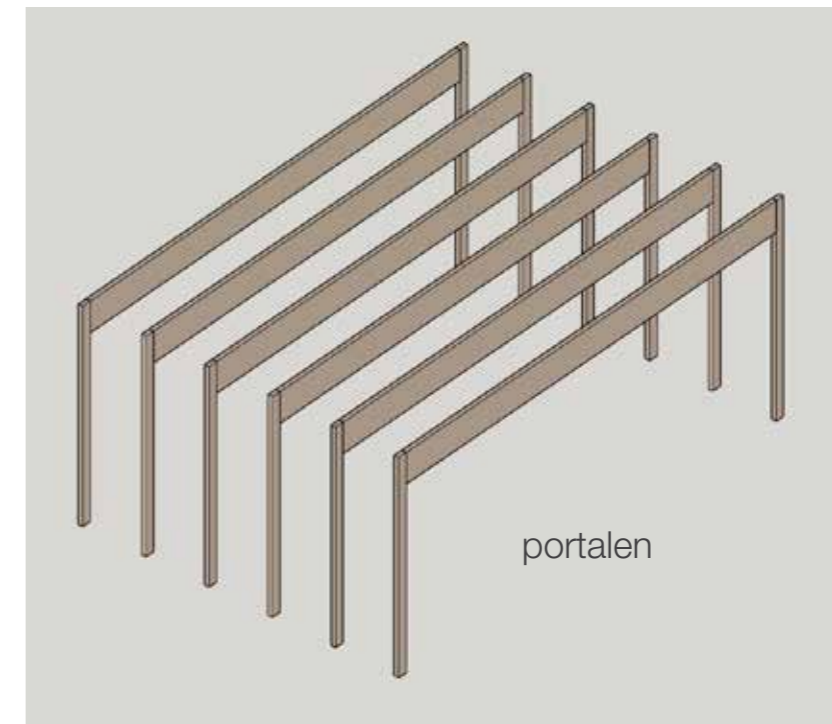
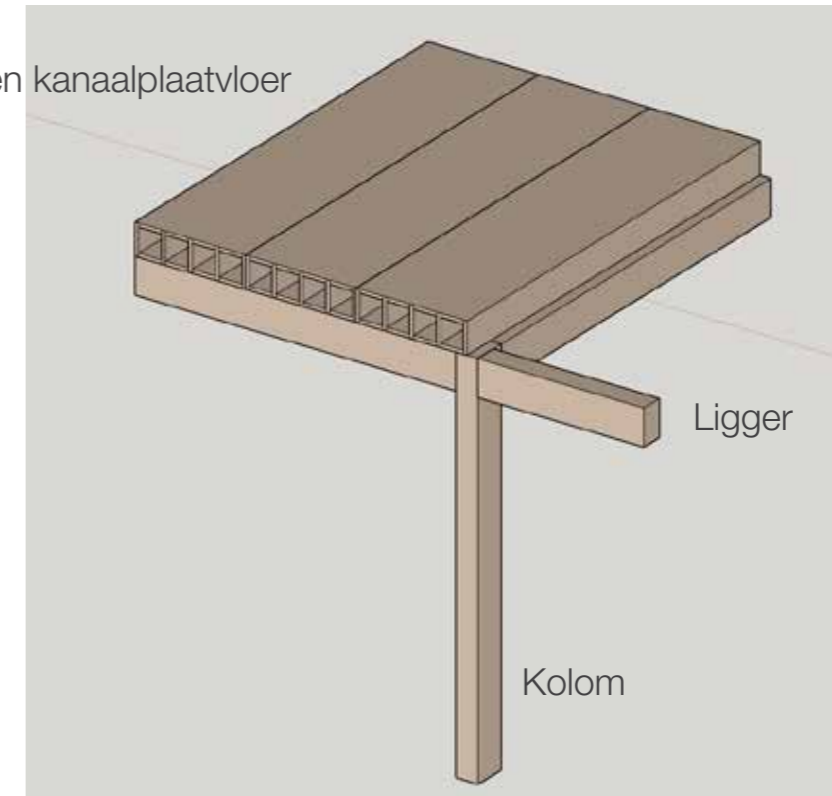


Houten constructie

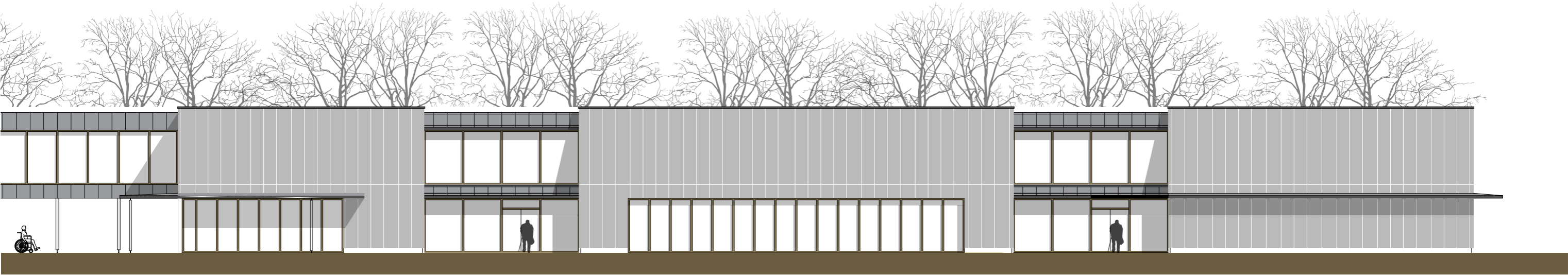
Structuur van portalen, kolommen en liggers

Stabiliteit door kruizen (dozen stabiel maken)

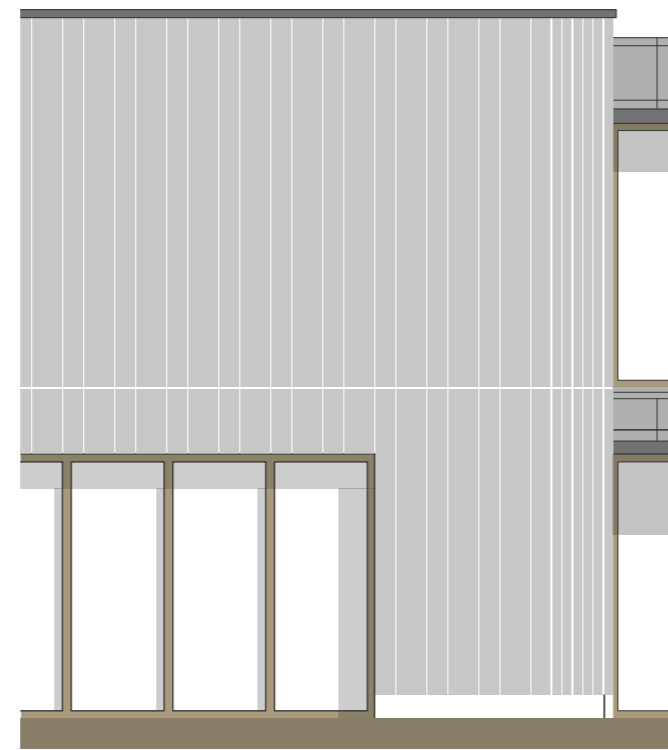
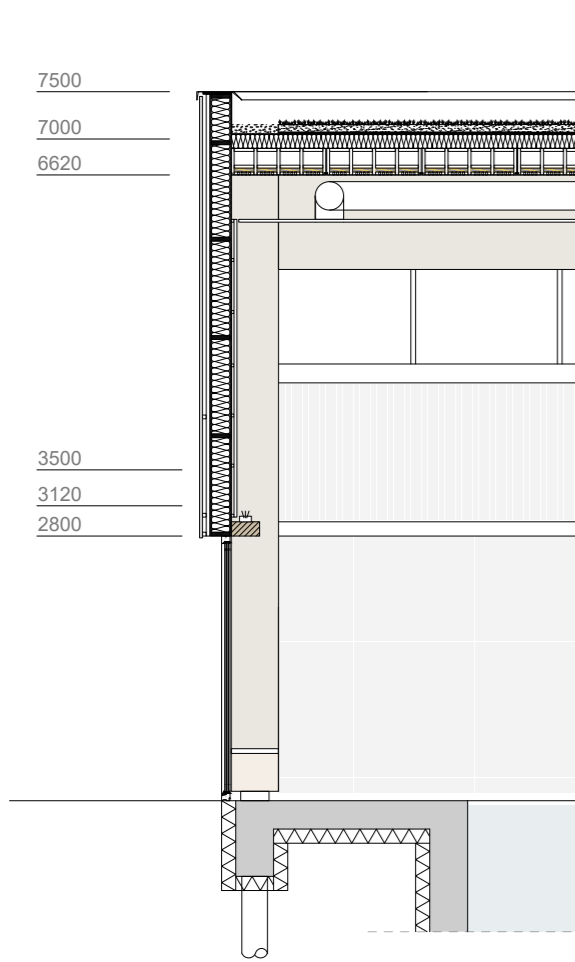
houten kanaalplaatvloer



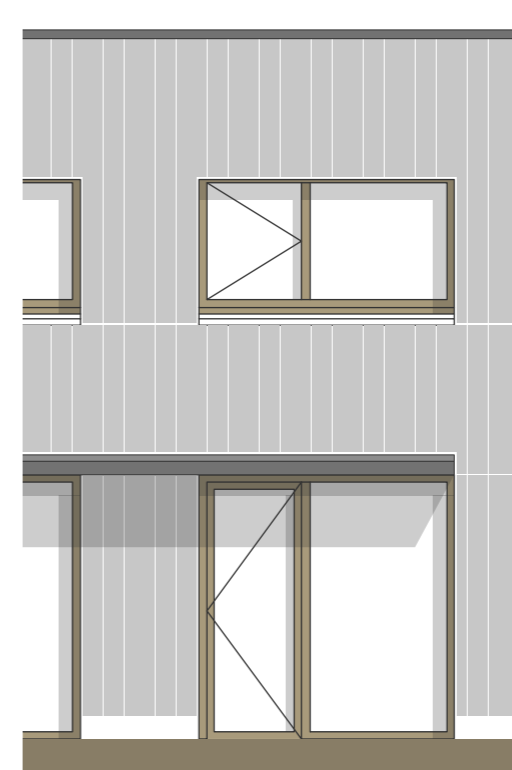
Gevel



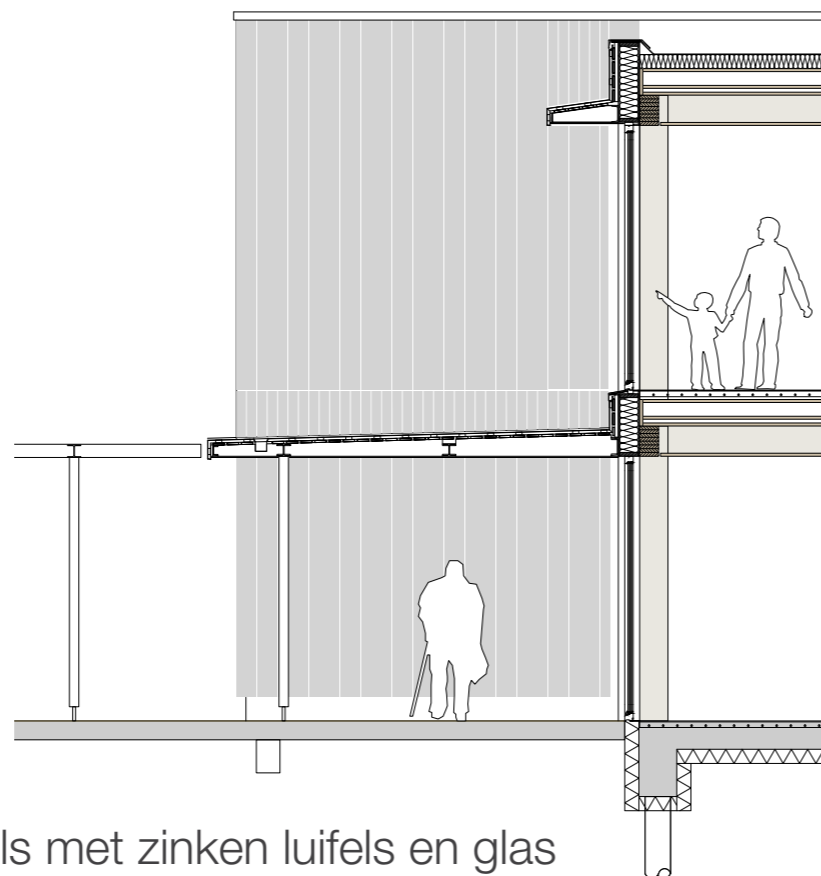
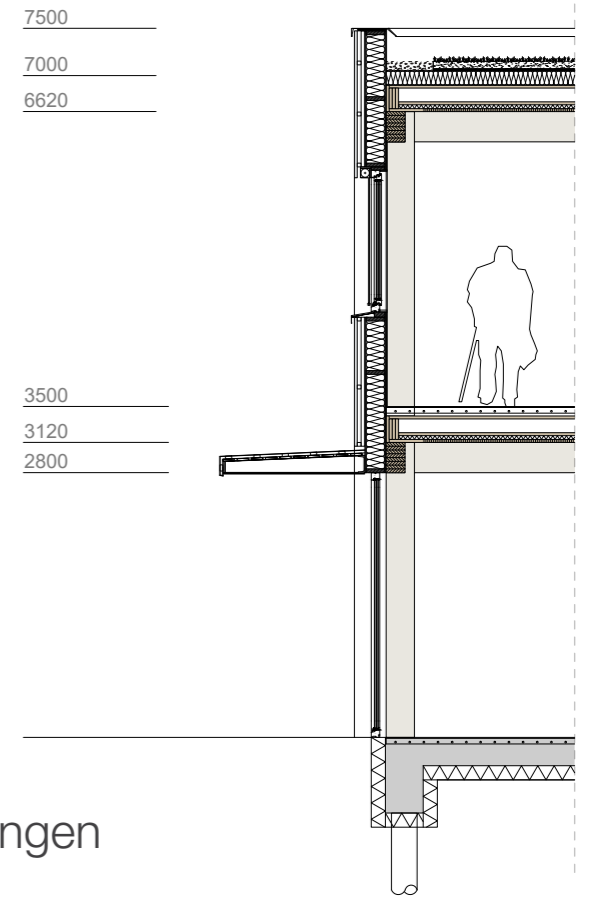
Bouwtechniek



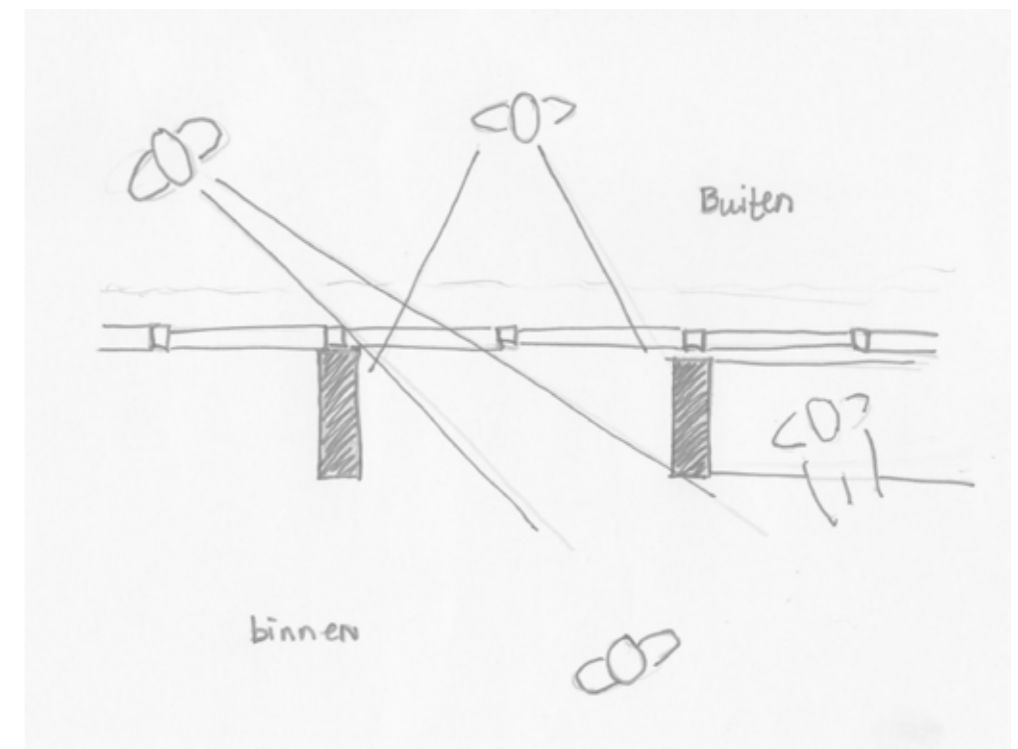
Hoge ruimtes met portalen



Twee verdiepingen



Tussengevels met zinken luifels en glas



Zichtbaarheid constructie

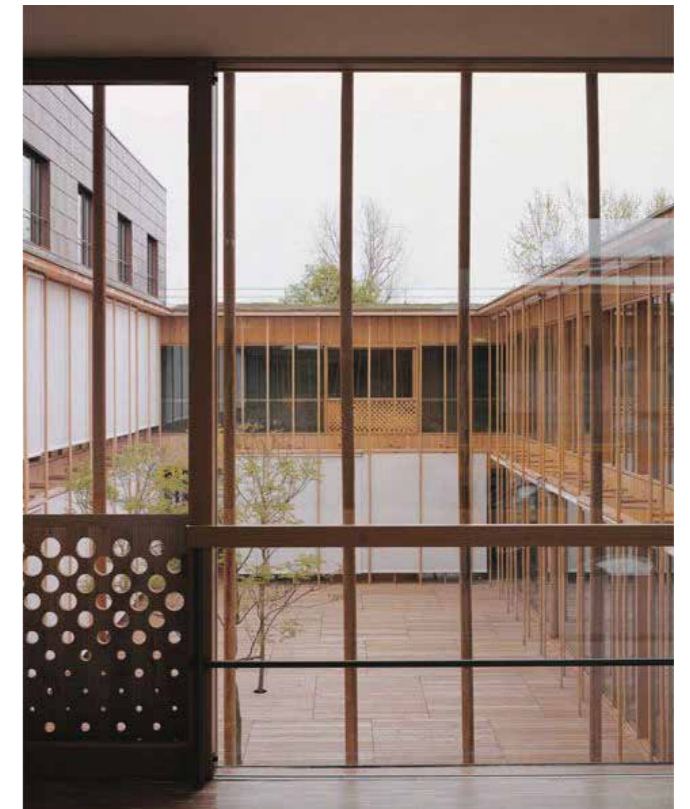


zwembad

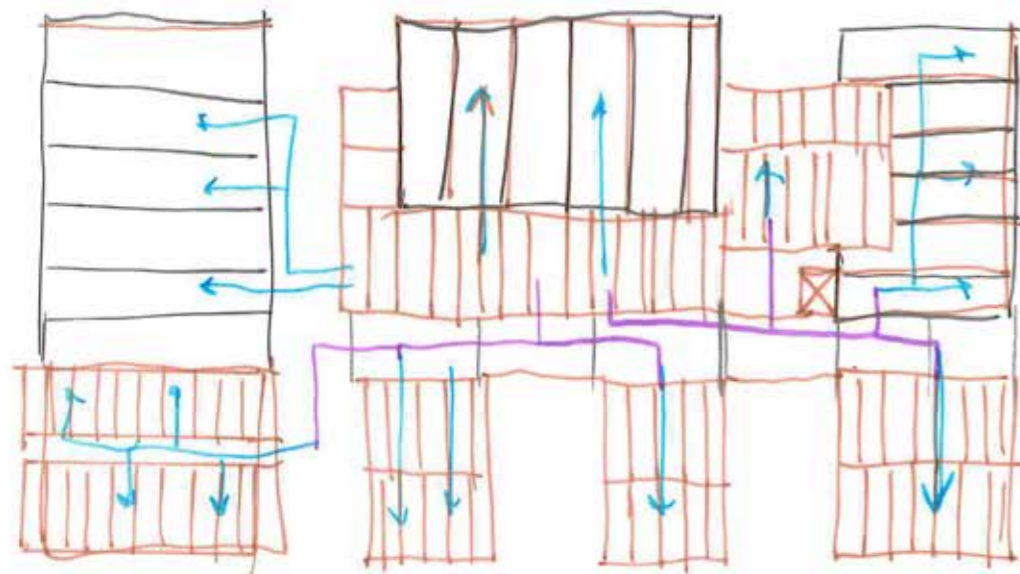
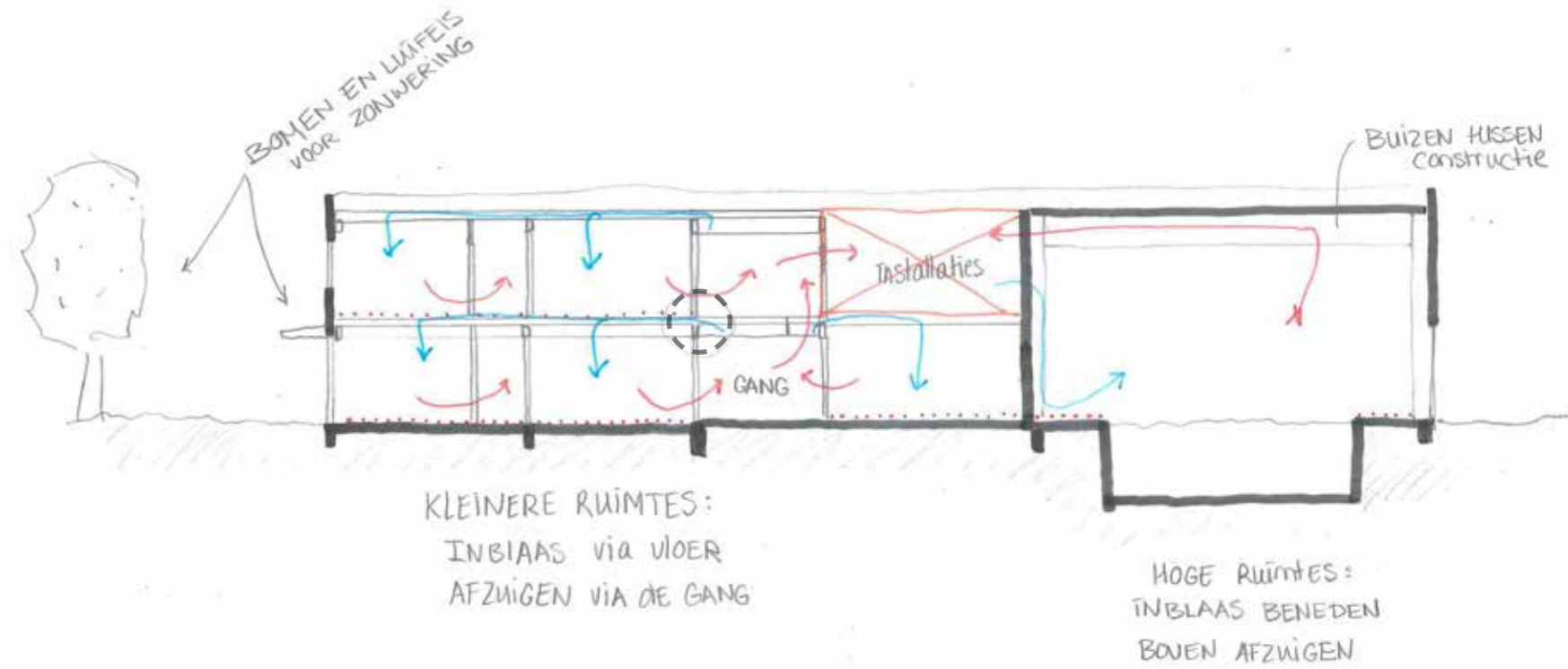
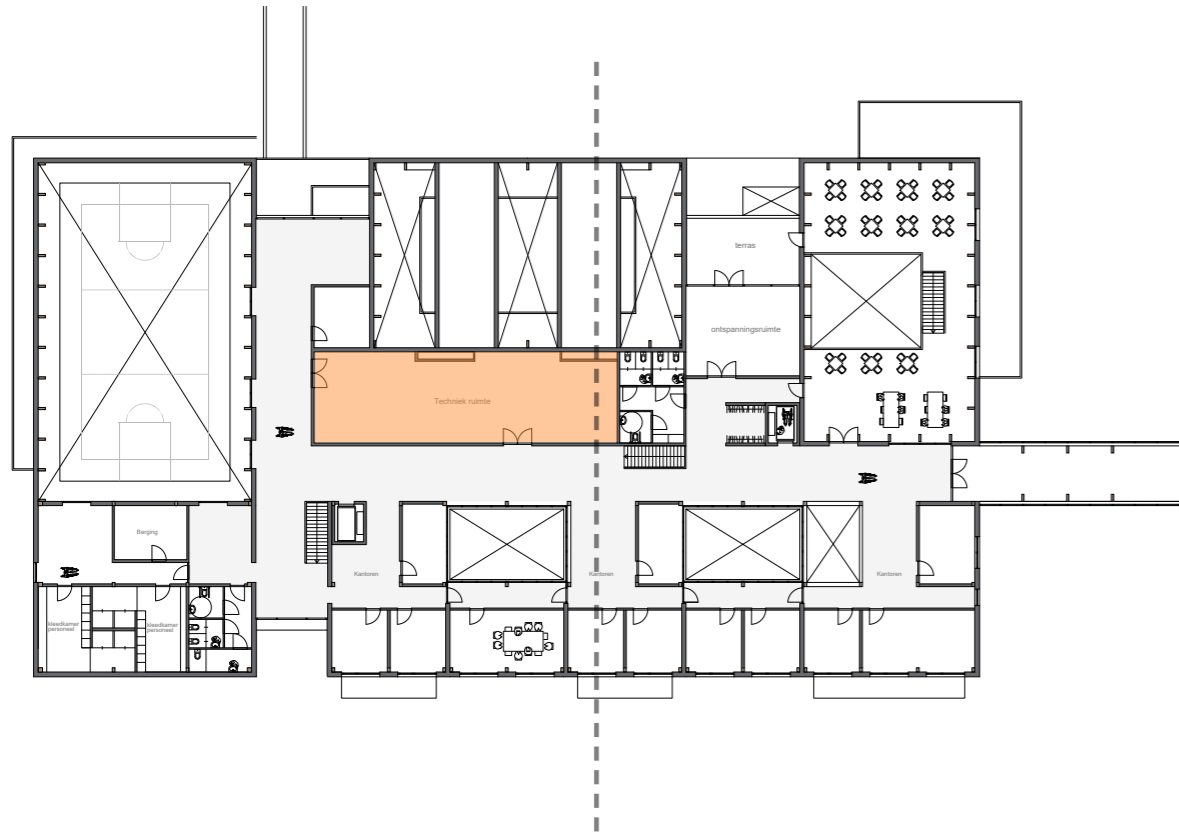


gang

Interieur referenties

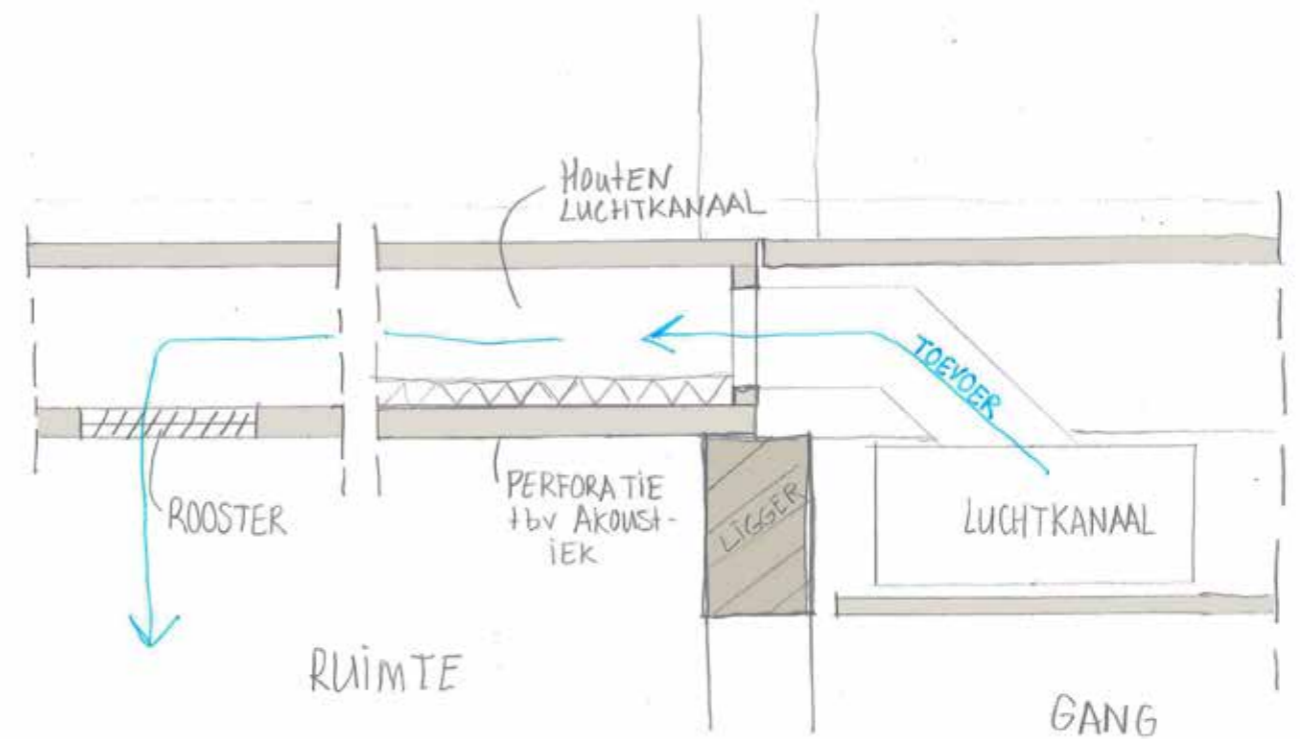


Klimaat ontwerp

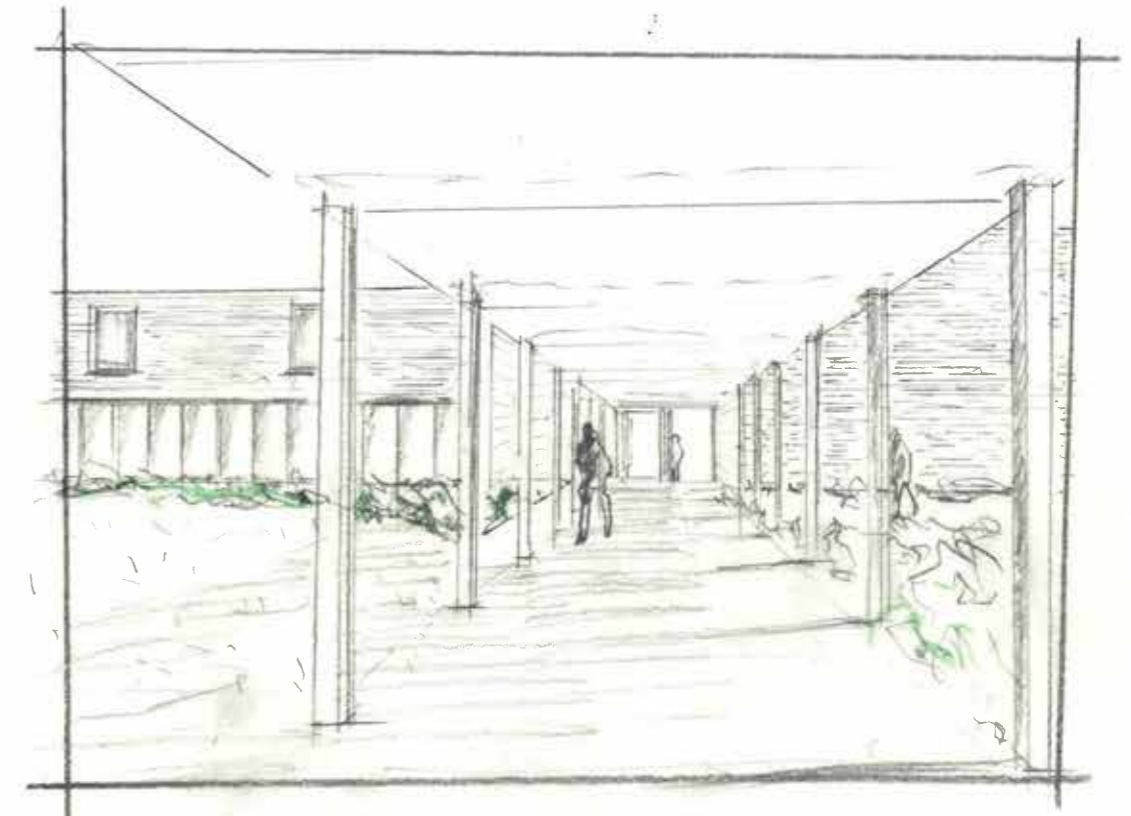


ventilatie en vloerdelen


Richting
lignatuur



Buitenruimte - tussenruimte



Pergola - verbinding

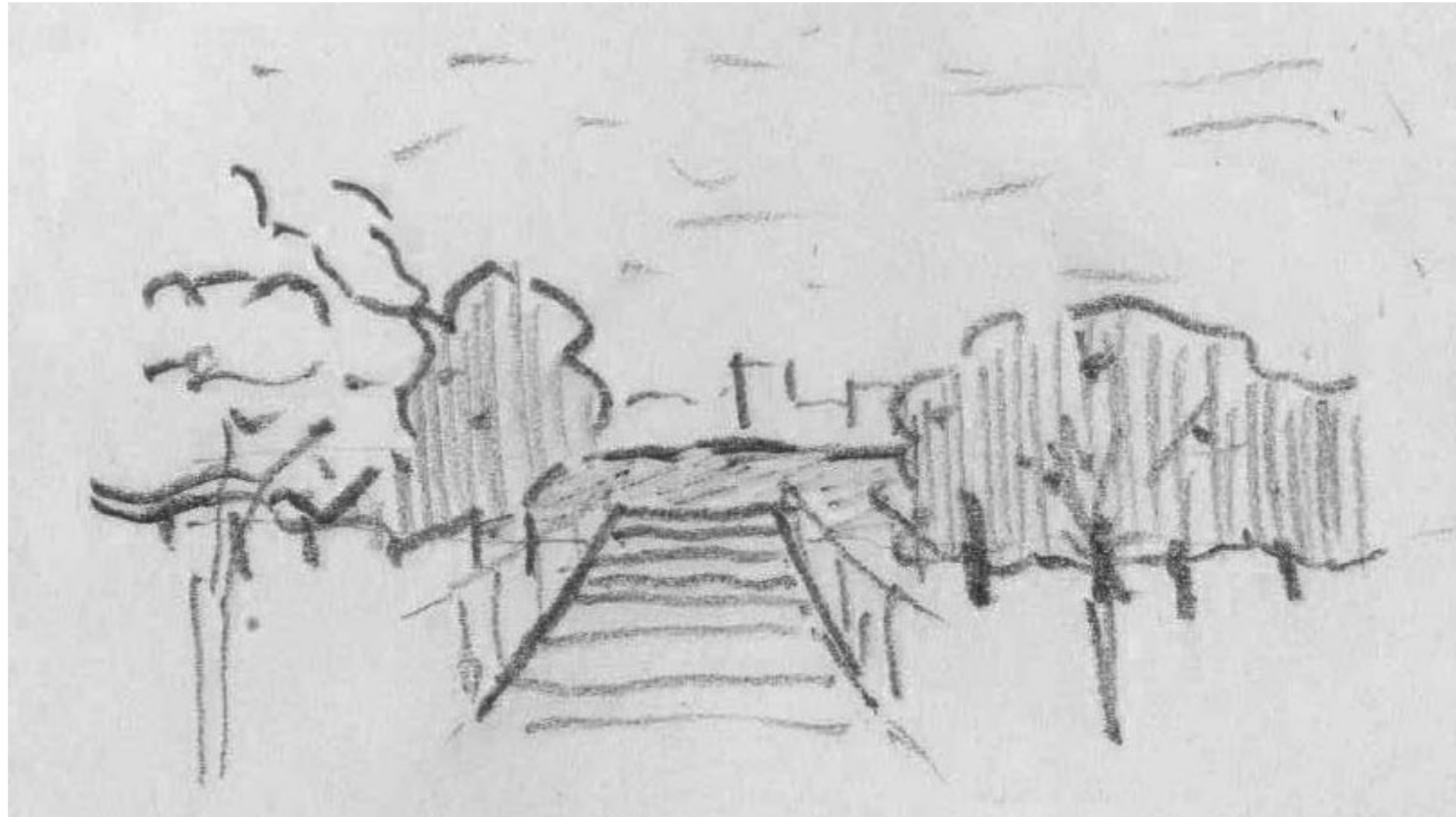
paden

bomen

tuinen



Buitenruimte



Redefining relation with the river

- Jetty (terrace)
- opening in the green boarder to give a view on the river

Buitenruimte



huidige situatie



ontwerp

Balans tussen de natuur zijn gang laten gaan en het maken van een goed functionerende buitenruimte