



Mental Health Centre Hembrug

Revitalizing Hemburg, to revitalize Society

P5 Job van den Berg | 6-04-20

Structure

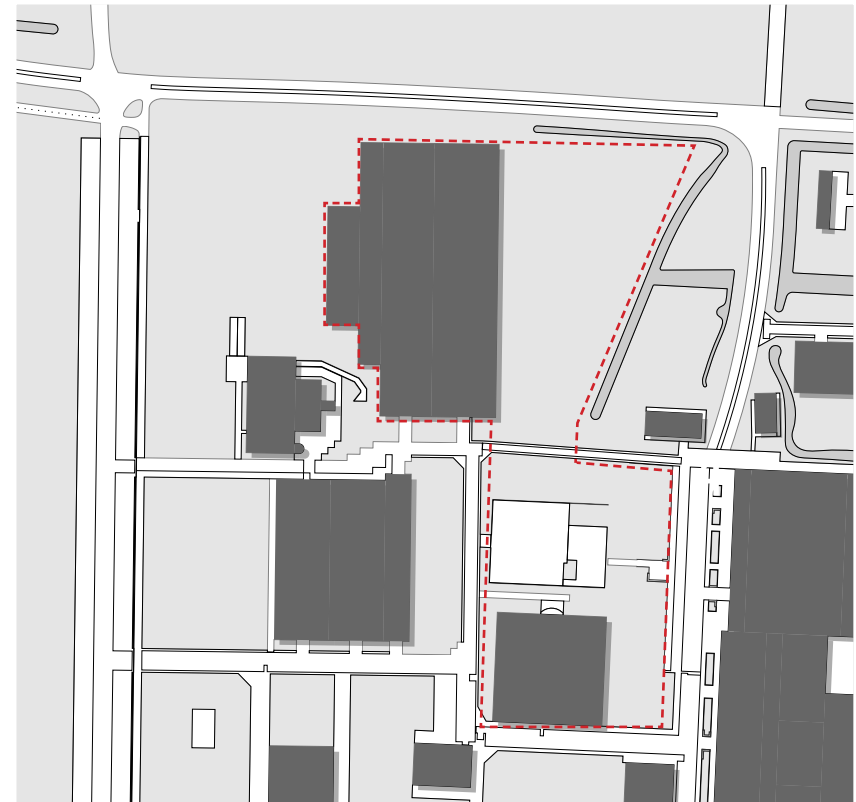
- Assignment & Inventory
- Hembrug
- Campus North
- Program
- Architectural approach
- Master plan Campus North
- Design Proposal Weapon depot
- Redesign Machine hall



Assignment & Inventory

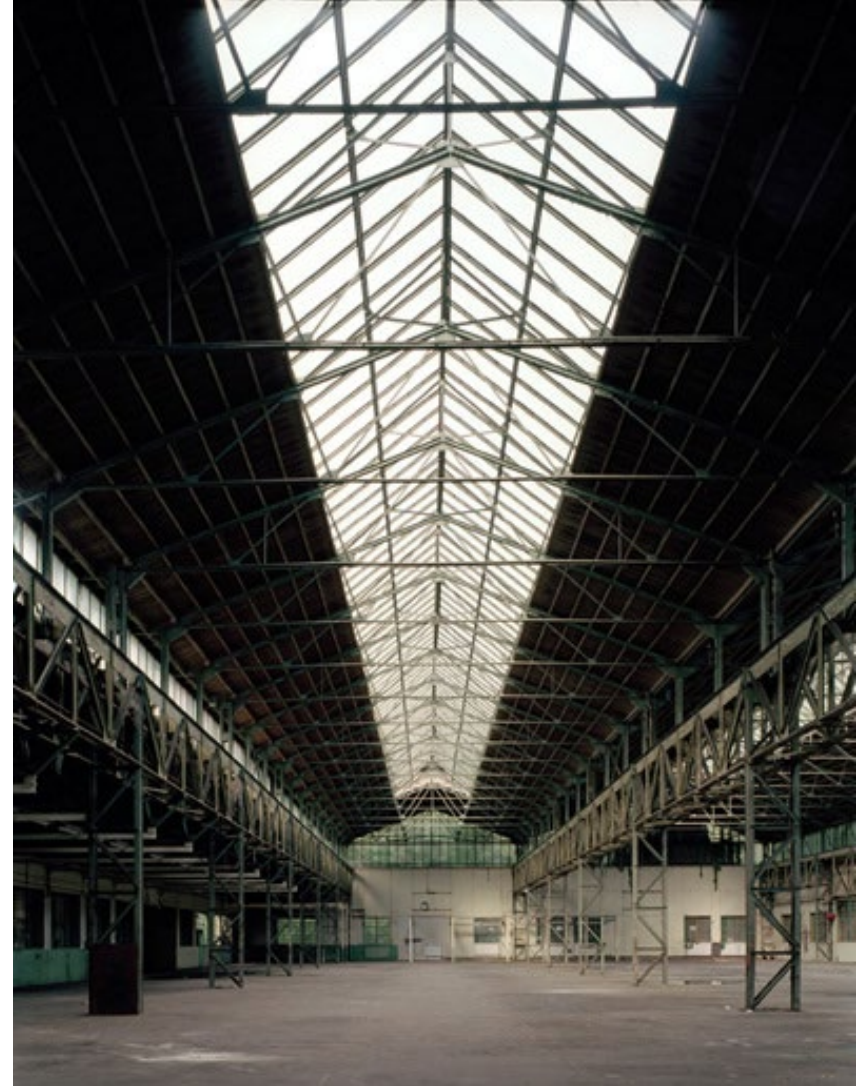
An on heritage focused redesign for the ensemble Campus North in the former military production area of Hamburg in Zaandam.

- Building 8, Weapon depot
- Building 320, Machine hall
- Open space including the old Foundation of building 309, Storage and kantine
- Forest



Given border of Campus North

Weapon depot and Machine hall



De Hembrug



source: Beeldbank RWS





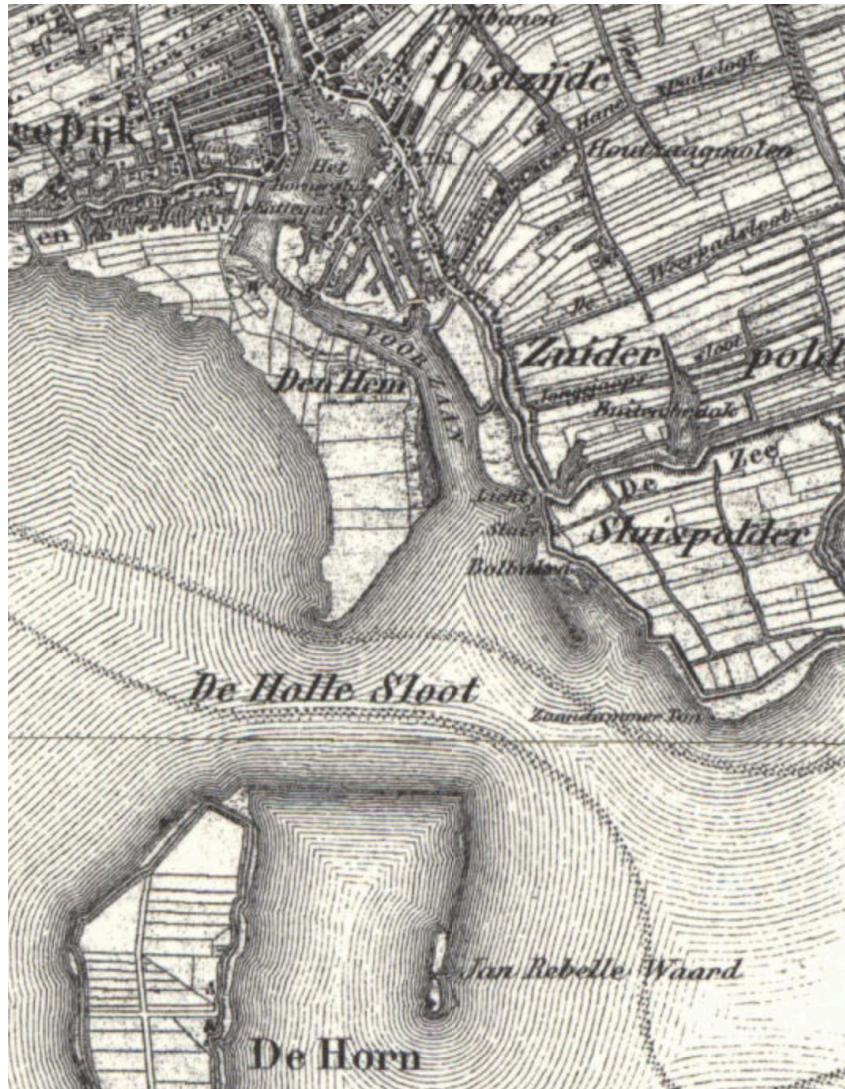
Zaanstad

Haarlem

Amsterdam

Haarlemmermeer

De Hem Peninsula



1850



1905

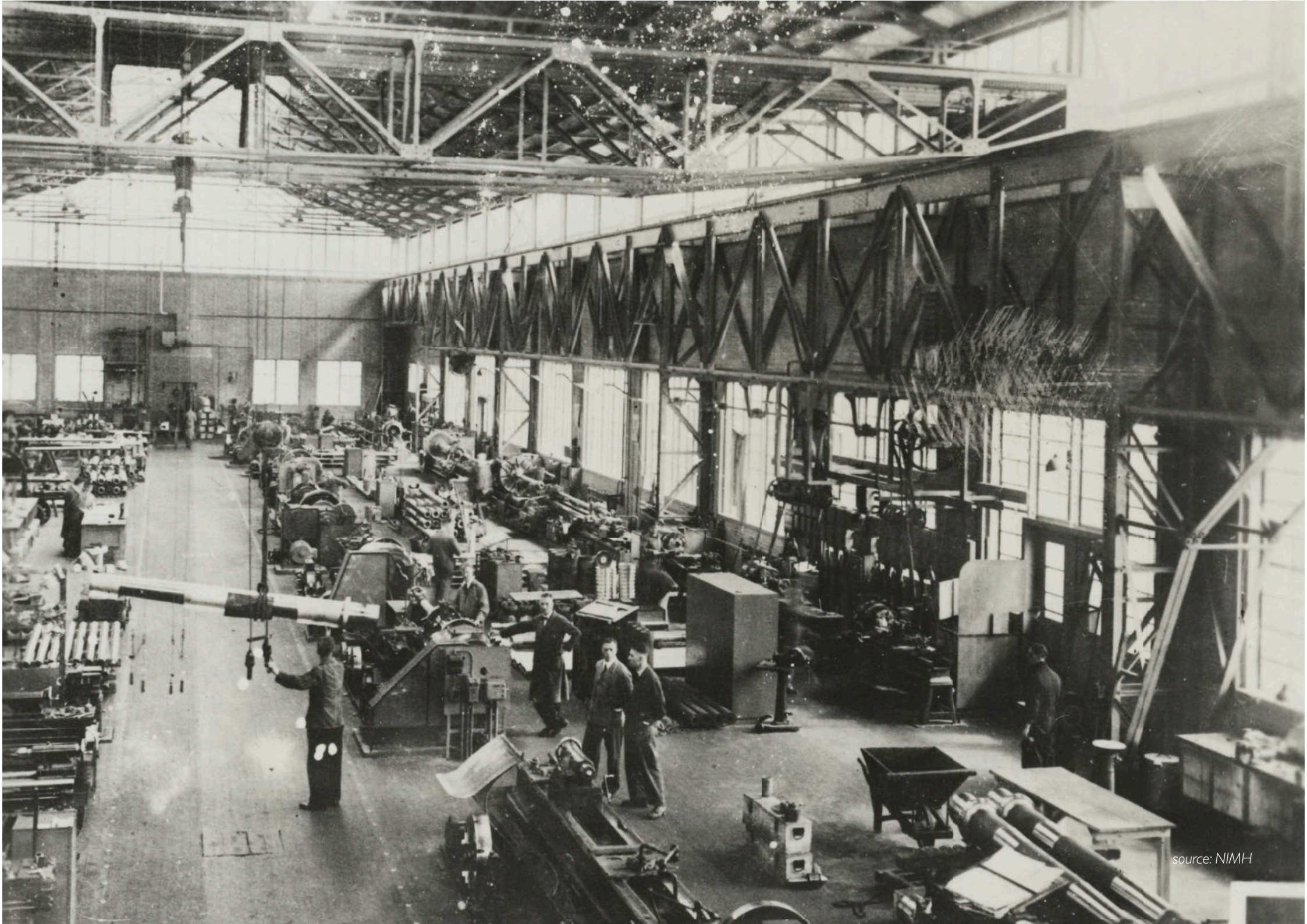
source: Grote Historische Atlas

9

9

1924





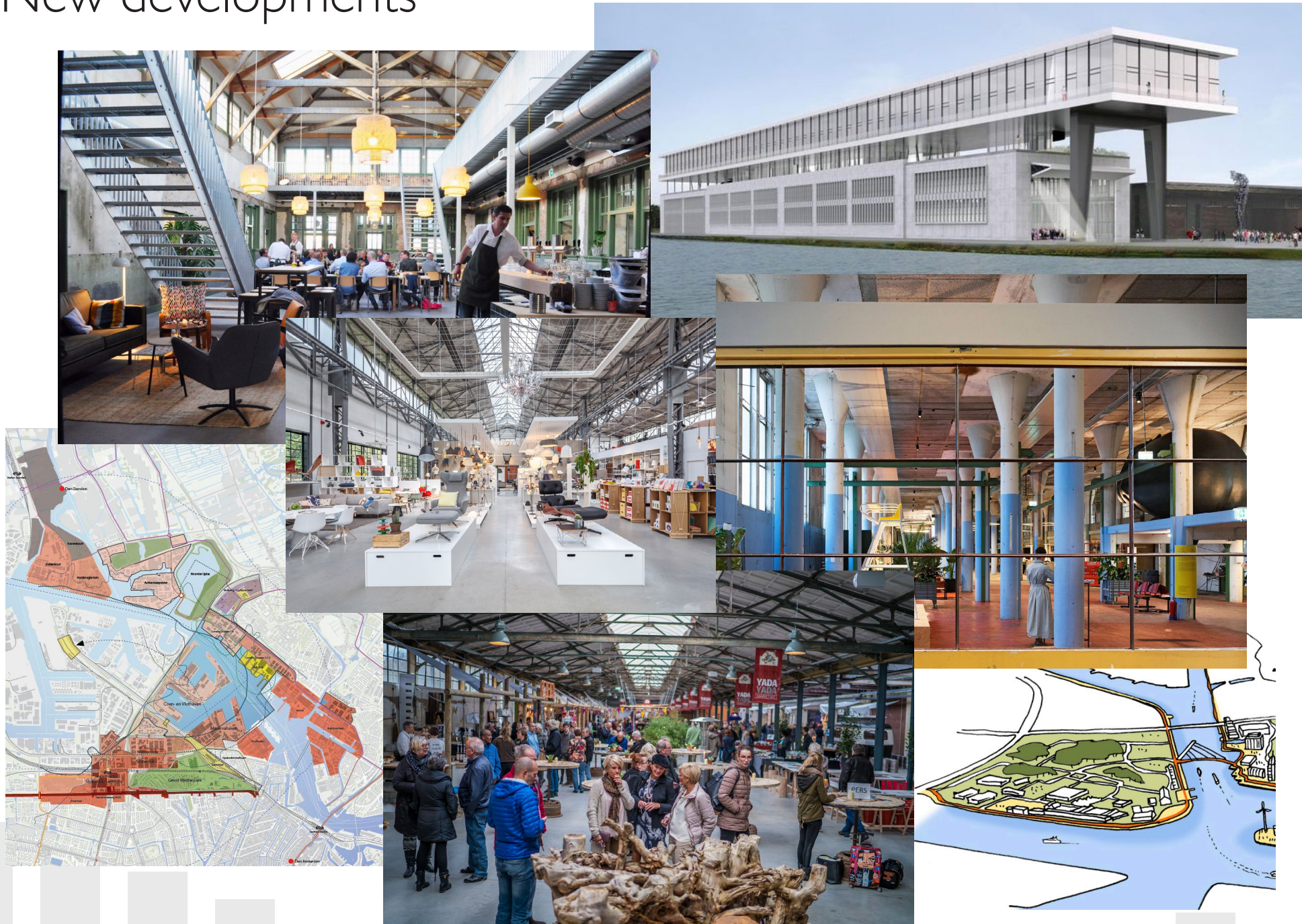
source: NIMH

Nature is taking over



source: Ministerie van Defensie

New developments



Campus North



Campus North



Hembrug



Campus

source: Apple Maps

Campus North

Latin (campus, campi)

1. campus
2. level field/surface
3. open space for battle/games
4. plain
5. scope
6. sea

Campus North



Given border



Campus North

Etude

For me it's about the two faces of the site, on one hand the open campus structure: the freestanding buildings in the public space, orientated towards all directions, the repetitive patterns alongside all faces and the mix of typologies, which together form an uniform unity. On the other hand the forest, with his history and roots deep inside the past, gives the area its curious atmosphere. A roof of leafs penetrates the area and is meeting the open shared space in its core. It's about the connection of those two worlds and how we as users are part in this. The forest was always a save haven, a place to shelter and to protect yourself when the sky was falling, but nowadays it can watch over you when you are escaping for modern society and find yourself peace and happiness. To see all of this your eyes are going troughs the buildings, light is falling on you, when you eyes are reaching trough the twigs. Sight lines are racing past you and disappear between the trees in the horizon. All of this is lying in different time layers on the area and now a new layer is painted over the area but we can still see his original soul trough his eyes, because they are the only things that never change.



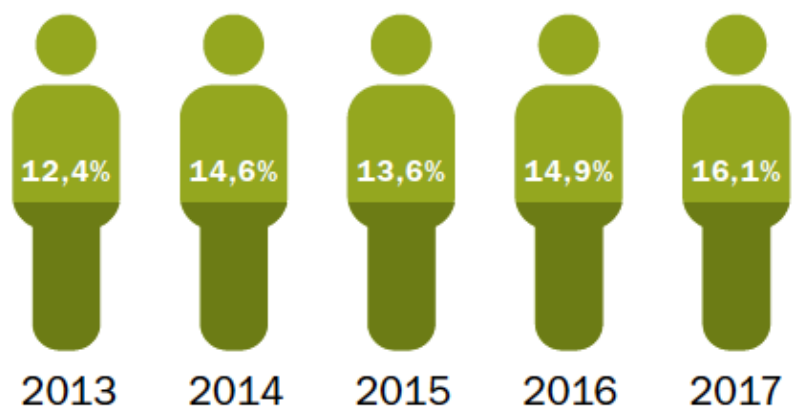
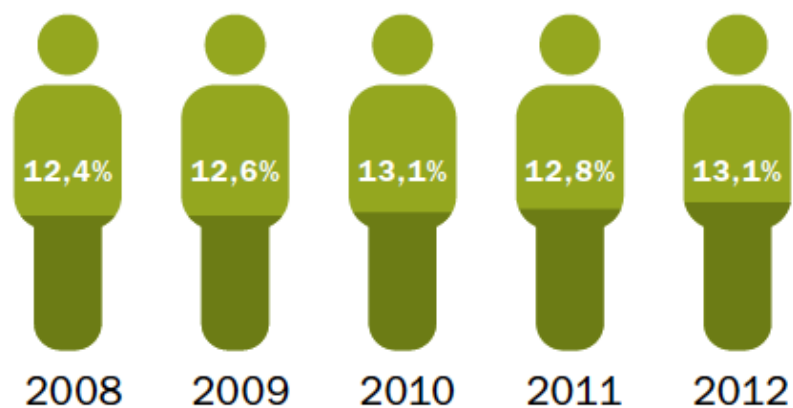






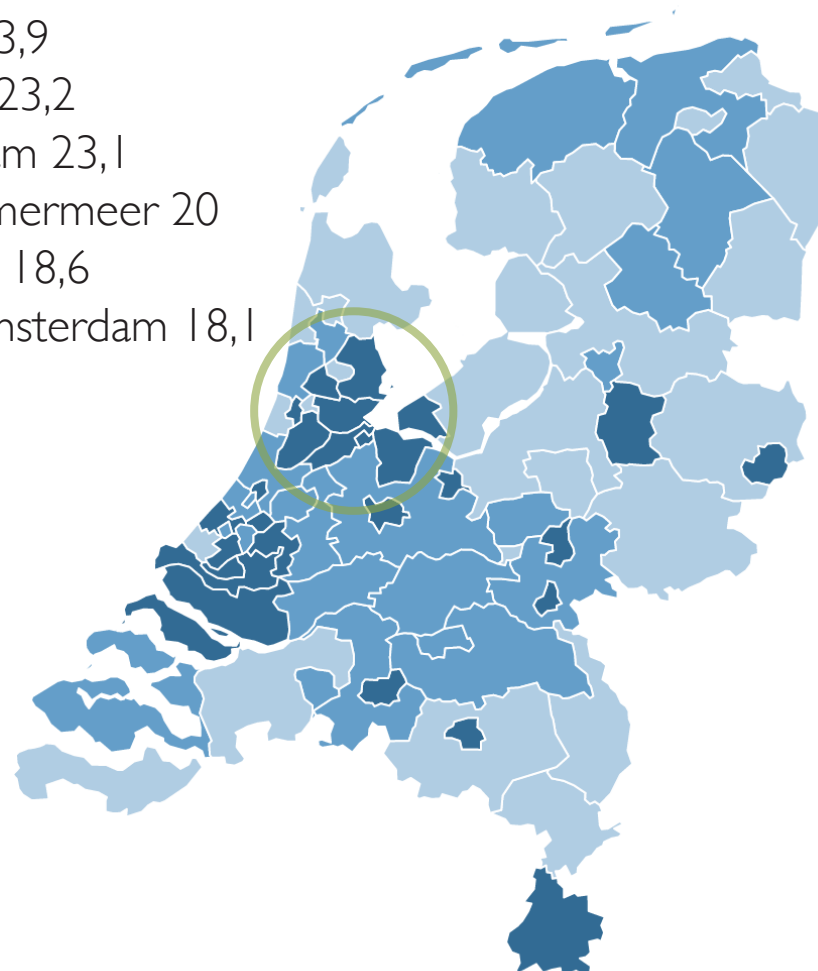


Percentage of burn-out complaints



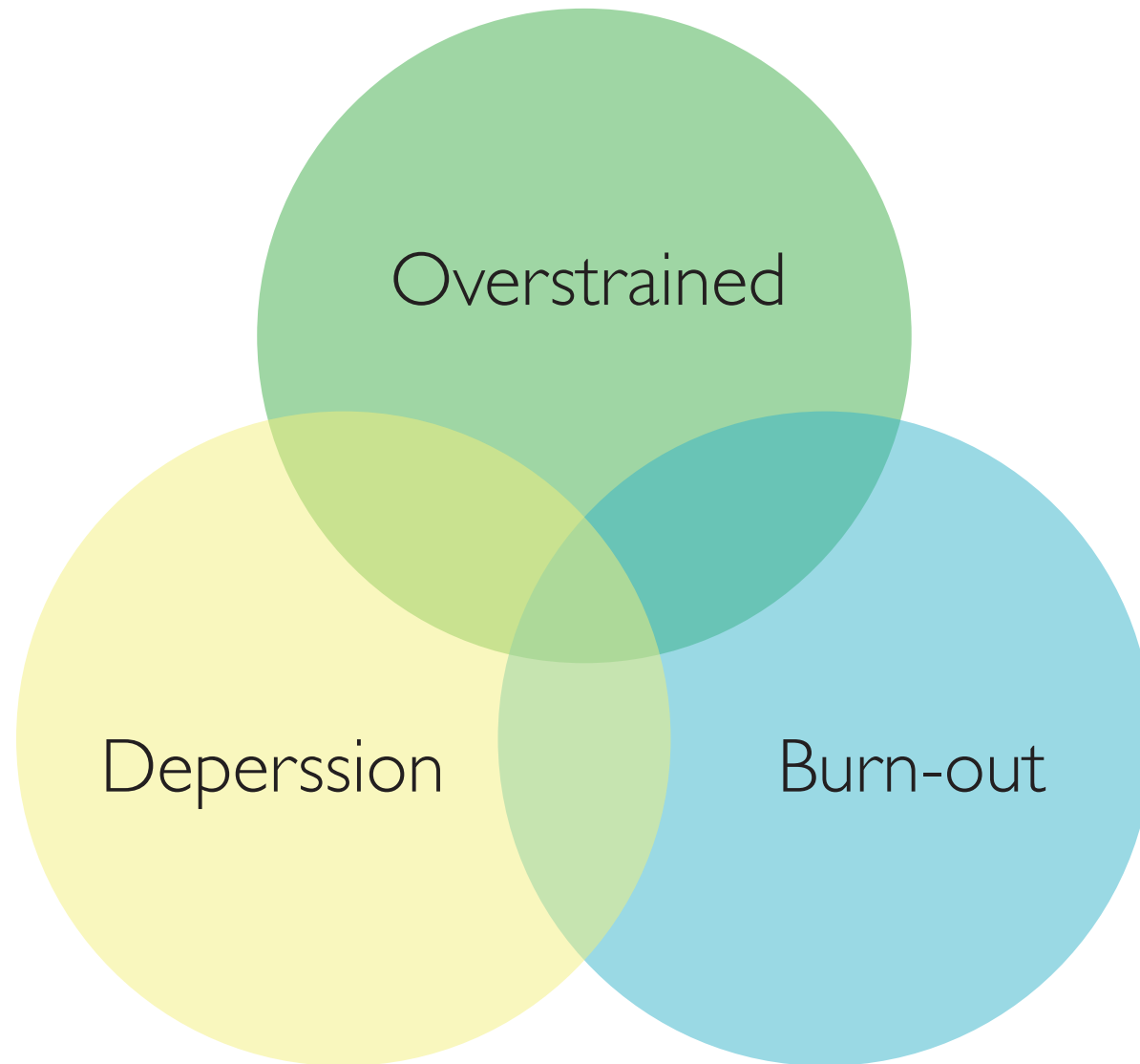
Average 17,3 %

1. Almere 23,9
2. Haarlem 23,2
3. Amsterdam 23,1
4. Haarlemmermeer 20
5. Zaandam 18,6
6. Groot Amsterdam 18,1

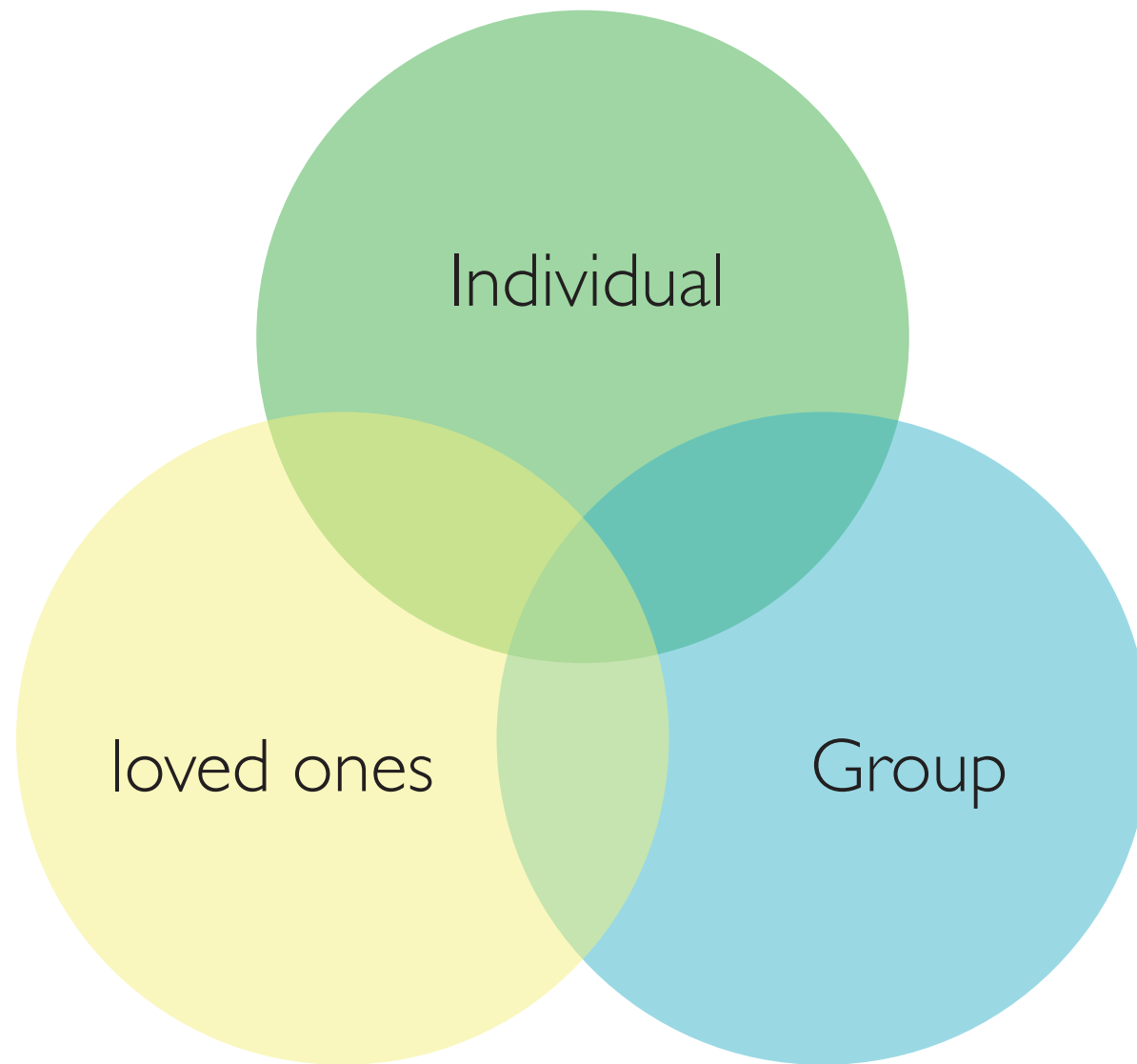


source: TNO 2018

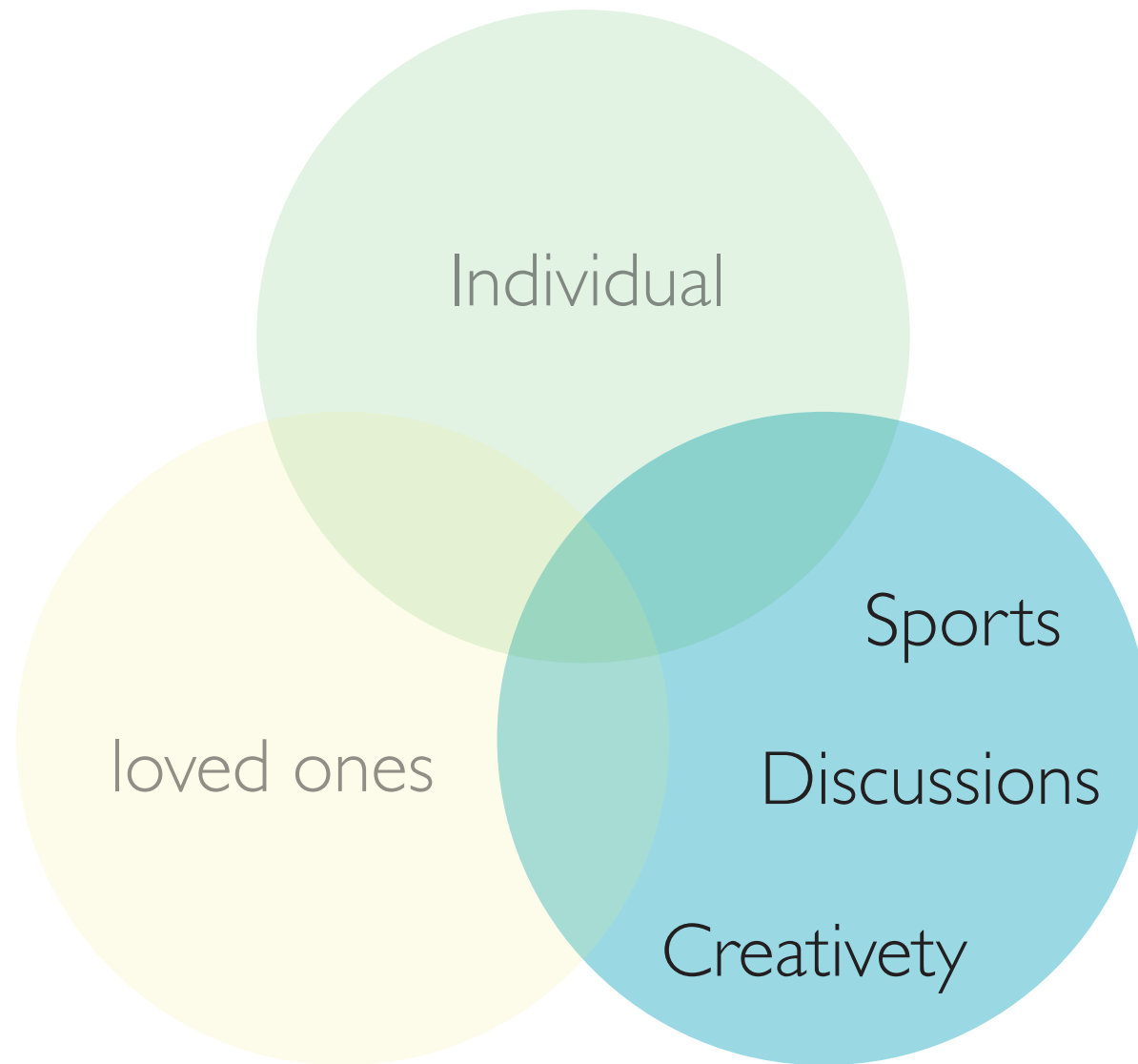
Stress based mental illnesses



Therapy



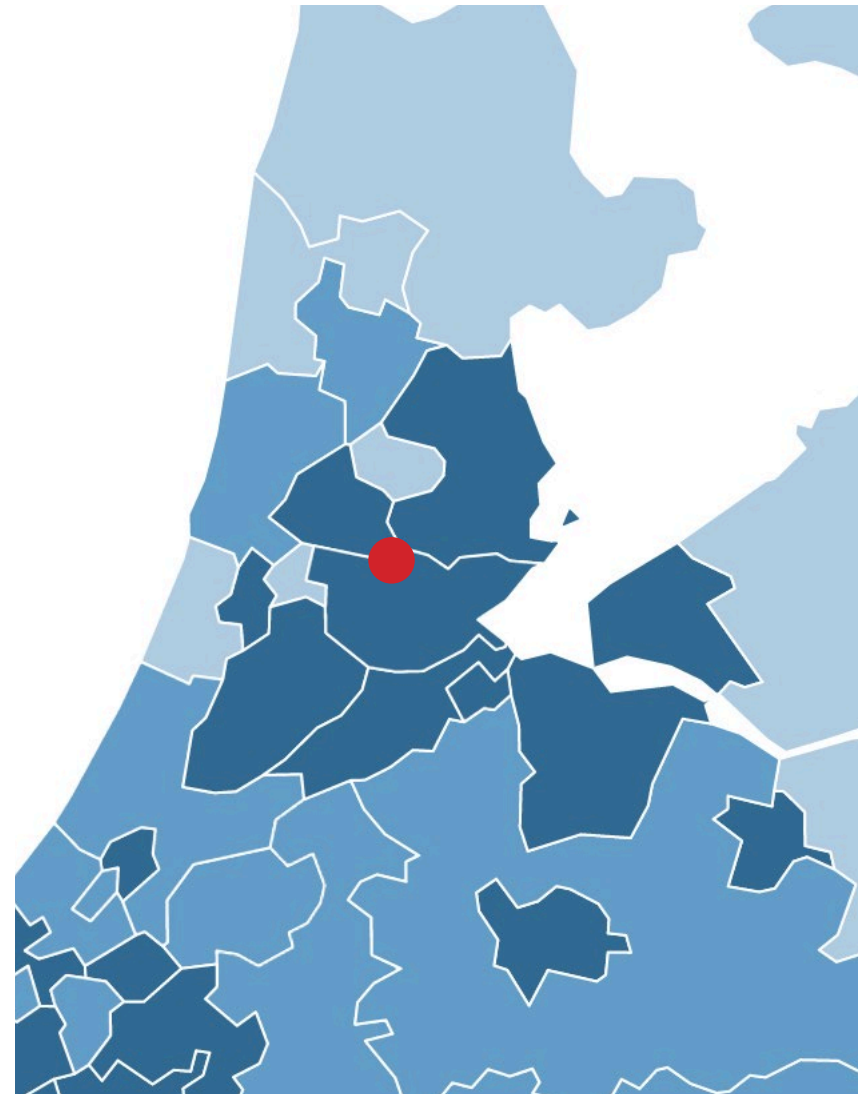
Therapy



How does Hembrug (and Campus North) fit the requirements to be a location for a mental healthcare?

GGZ Hembrug

I. Central location



GGZ Hembrug

1. Central location

2. Green



GGZ Hembrug

1. Central location
2. Green
3. Accessibility



15/30 min isochrones

GGZ Hembrug

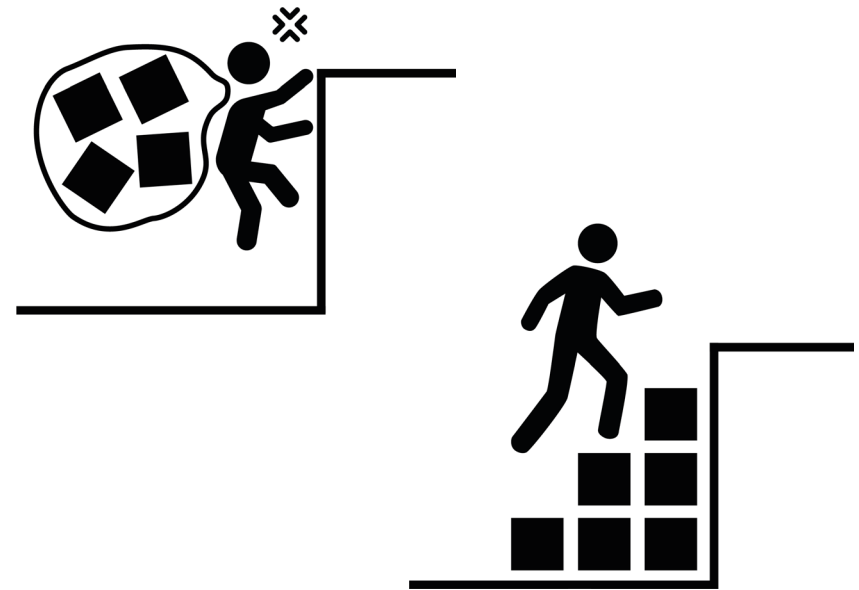
1. Central location
2. Green
3. Accessibility
4. Isolation and connection



GGZ Hembrug

1. Central location
2. Green
3. Accessibility
4. Isolation and connection
5. Idea of Heritage

*“The past cannot be changed,
forgotten, edited or erased ...
It can only be accepted”*

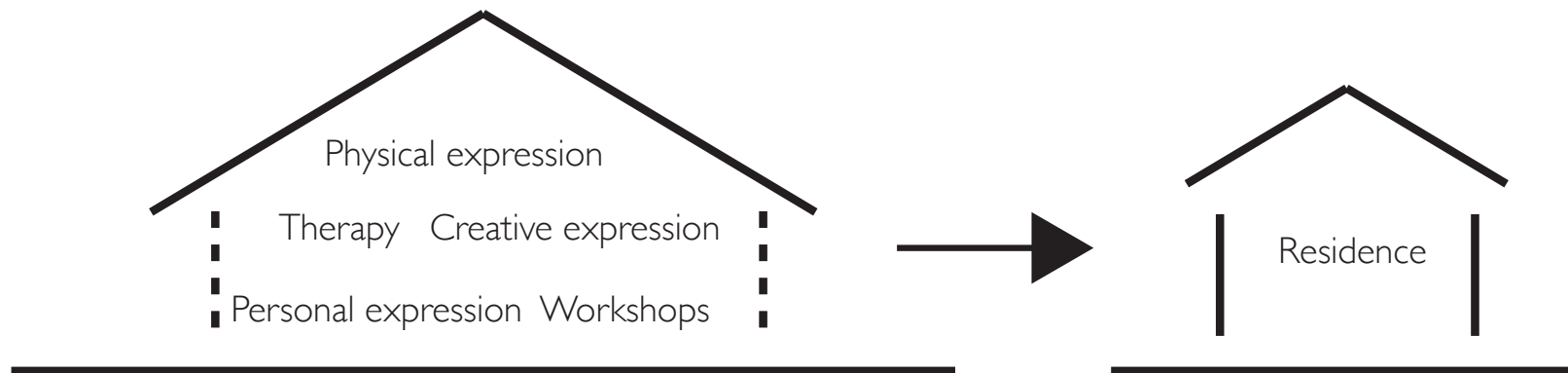
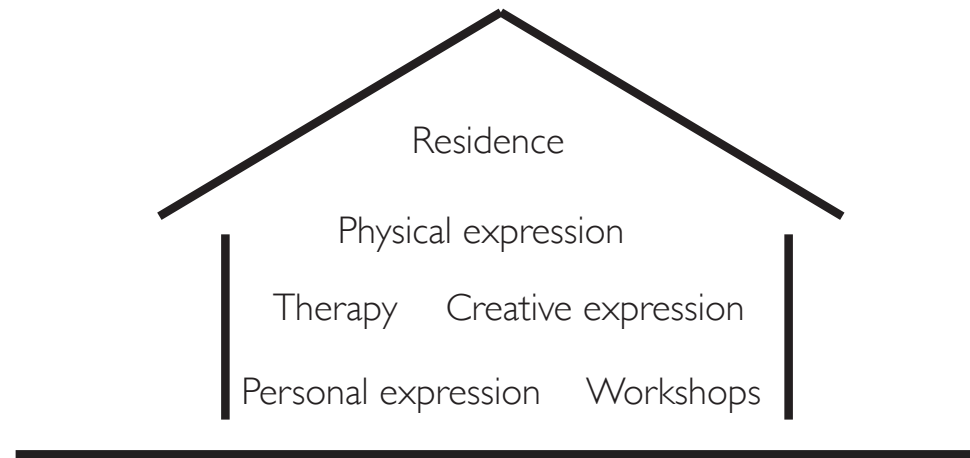


GGZ Hembrug

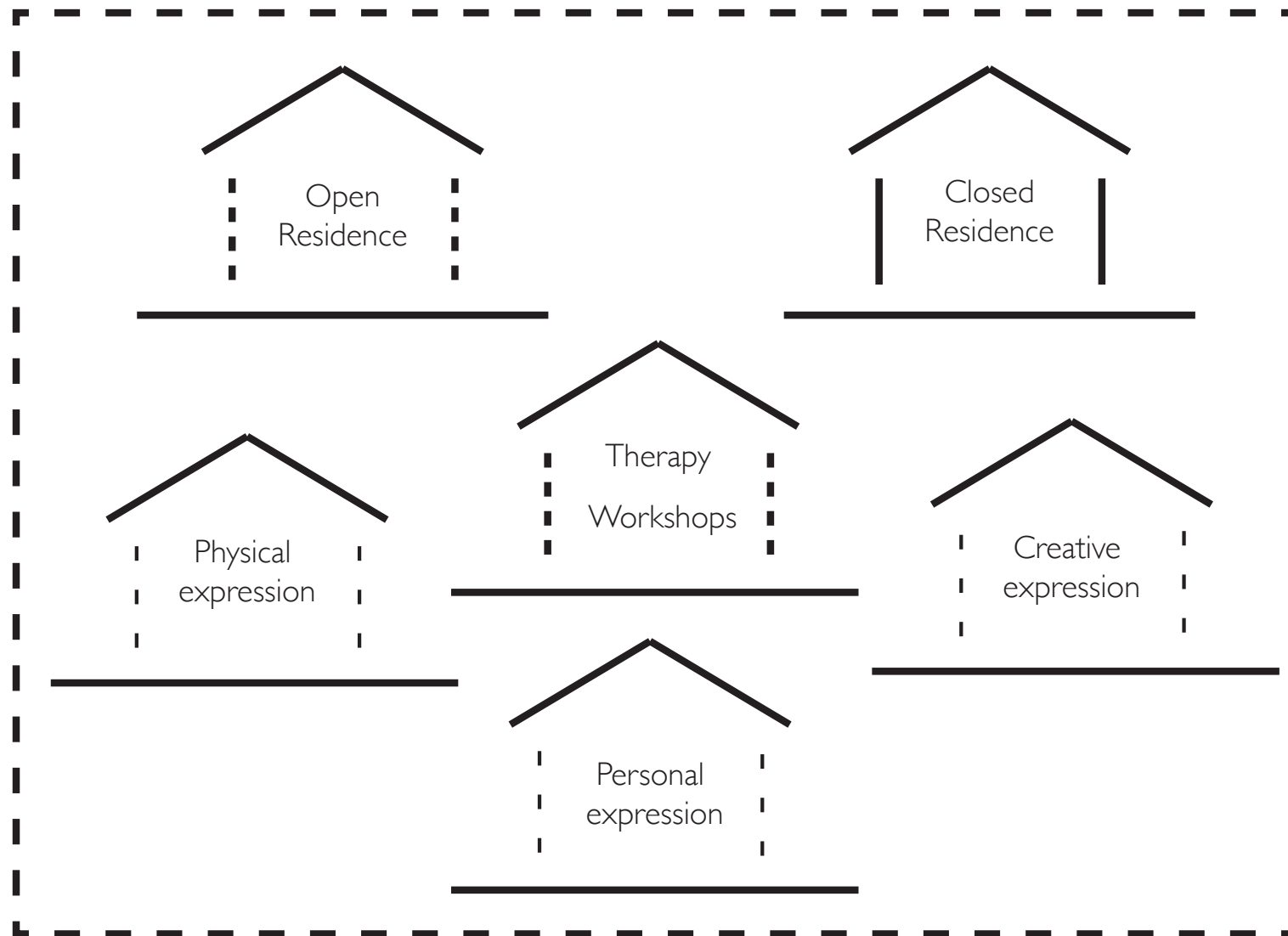
1. Central location
2. Green
3. Accessibility
4. Isolation and connection
5. Idea of Heritage
6. Function of Hembrug

“Hembrug was always the place which gave the people the tools to defend themselves”

Boston model

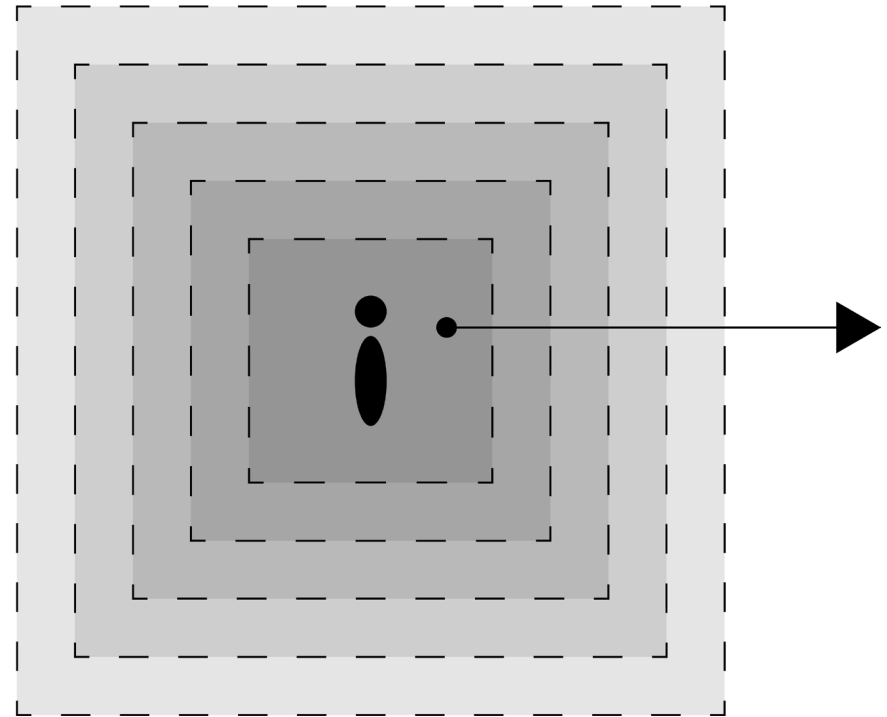
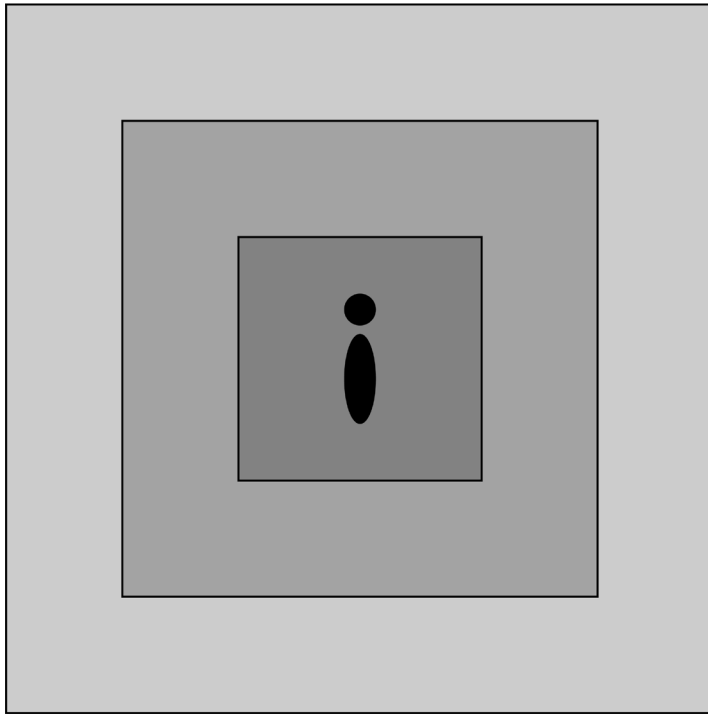


Multifuncional use and future proof



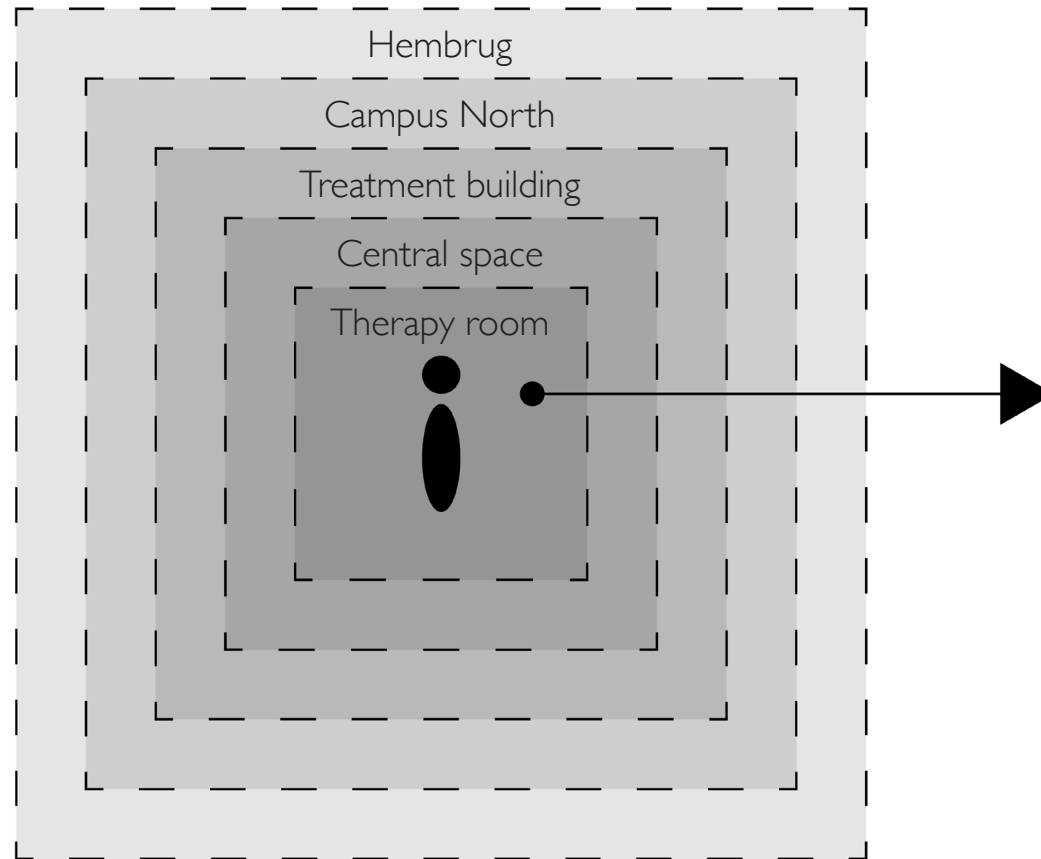
Architectural concept

Layering in creating personal space



Architectural concept

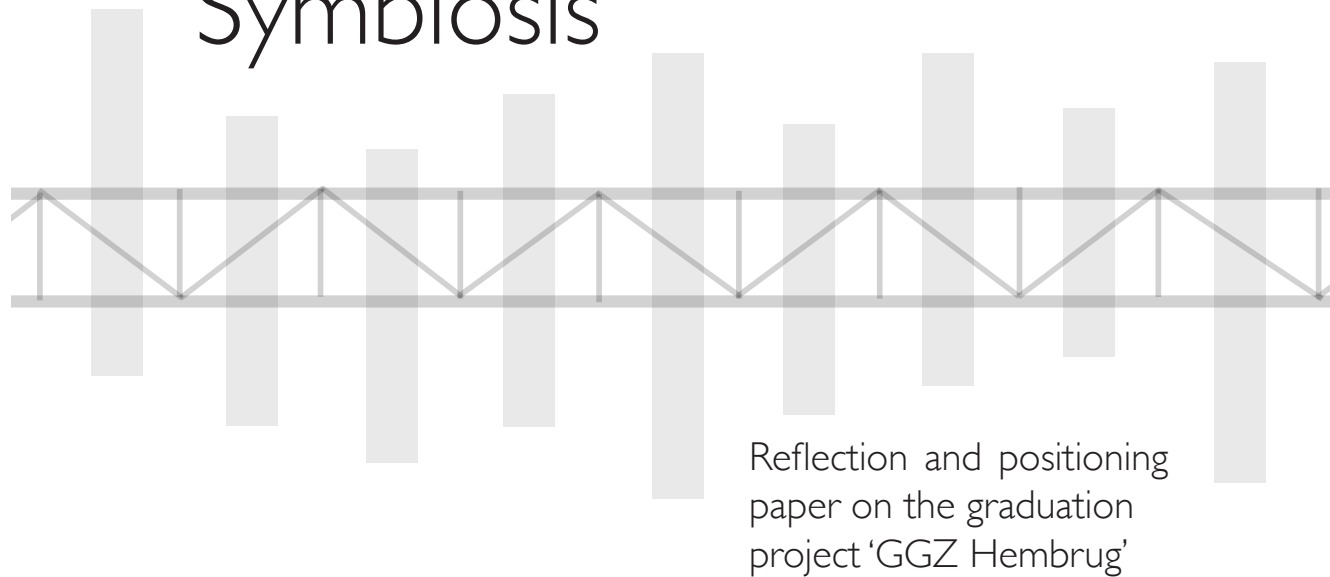
Application on Hembrug



Architectural approach

Symbiosis

Symbiosis



Reflection and positioning
paper on the graduation
project 'GGZ Hembrug'

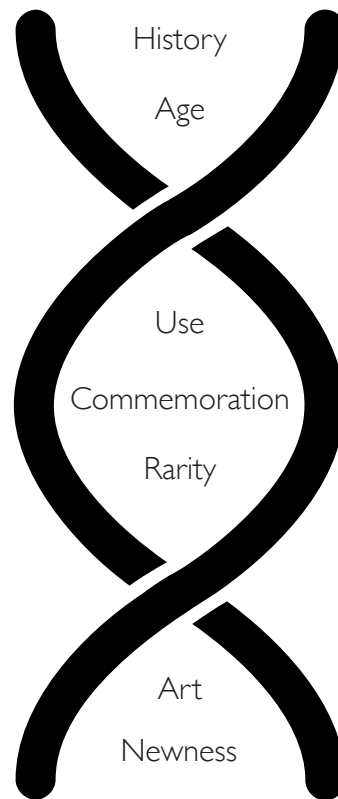
1 "The relationship between two different living creatures that live close together and depend on each other in particular ways, each getting particular benefits from the other."

2 "A relationship between people, companies, etc. that is to the advantage of both"

source: Oxford Dictionary

Architectural approach

Cultural values as DNA of the building

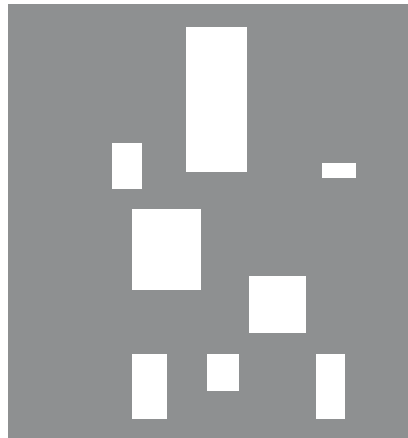


Campus North

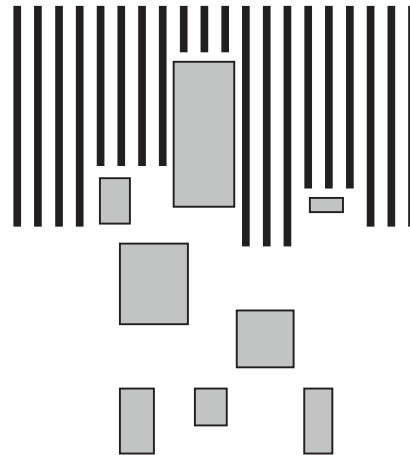


Campus North

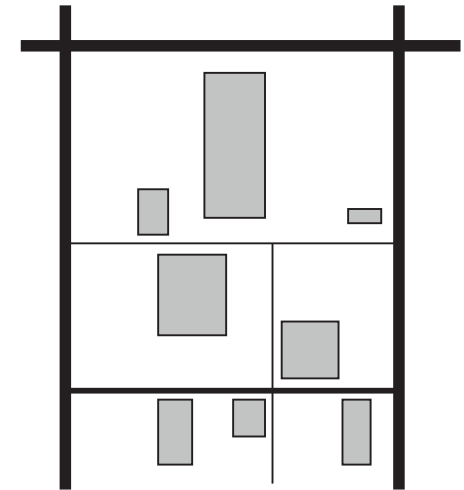
DNA



Shared public space



Forest edge



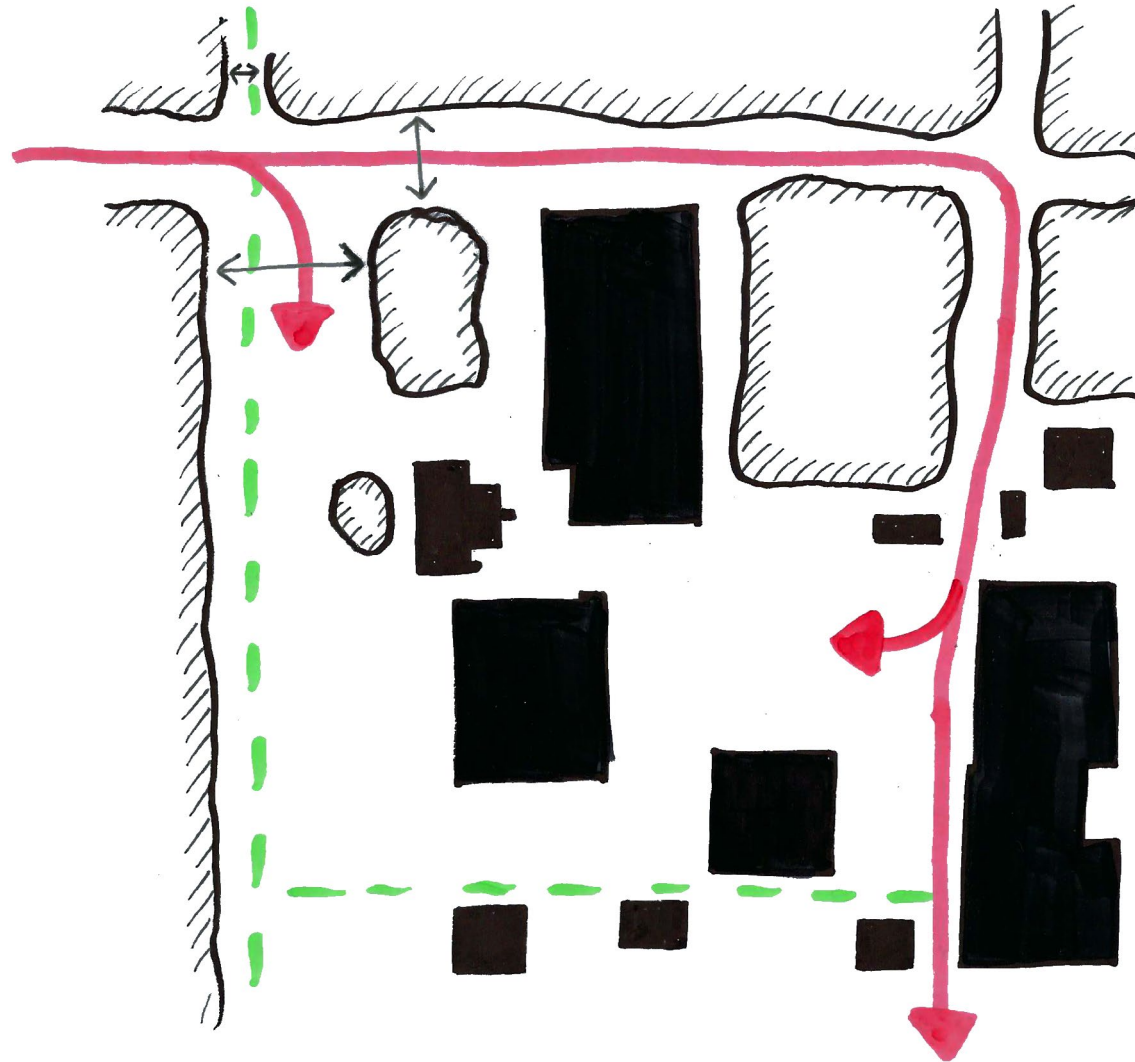
Structure

Campus North

How can the public space of Campus North contribute in creating a protected environment without loosing the connection with Campus South, the forest and the rest of Hembrug?

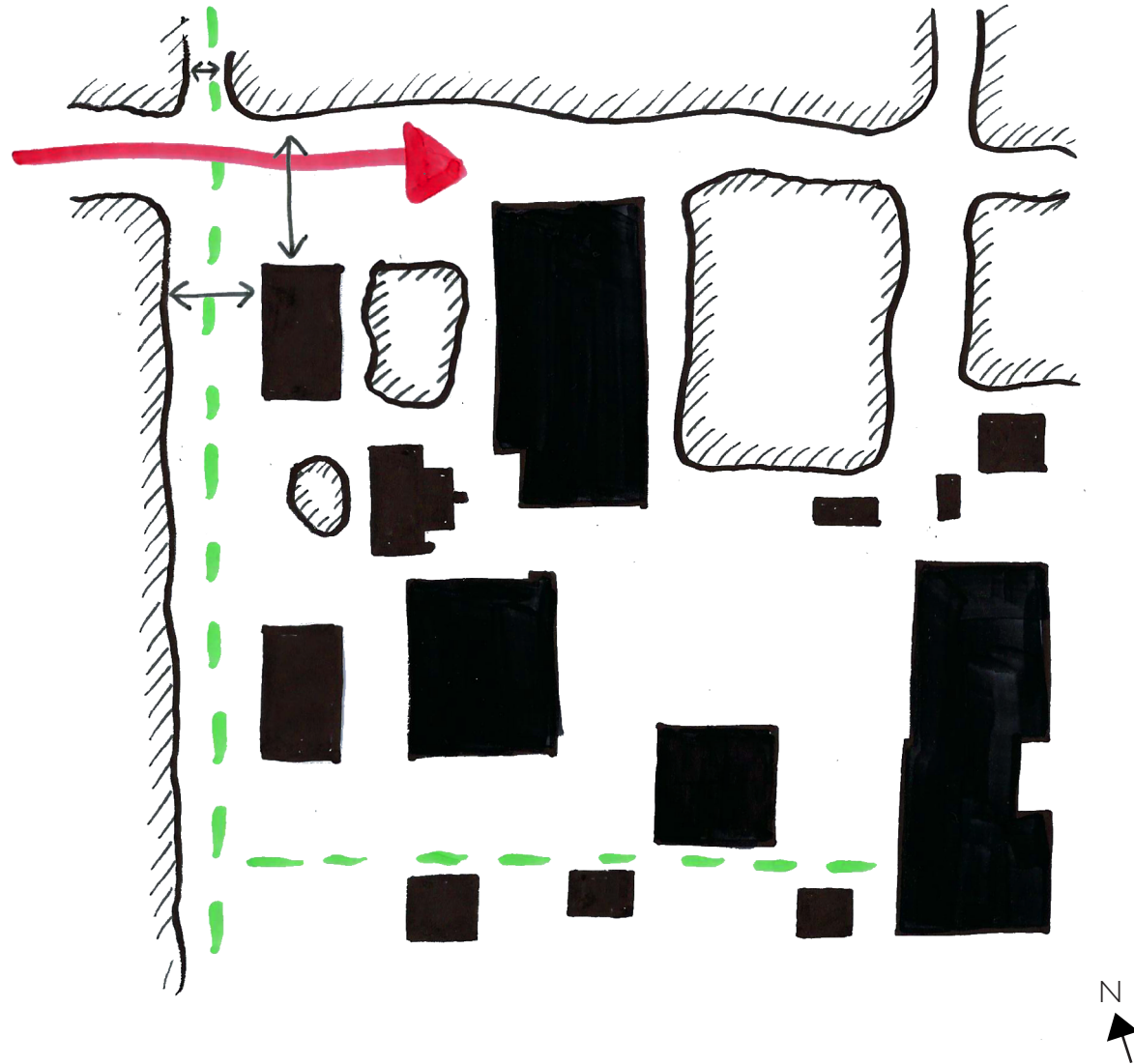
Campus North

Main structure in Campus North



Campus North

Clarifying the entrance



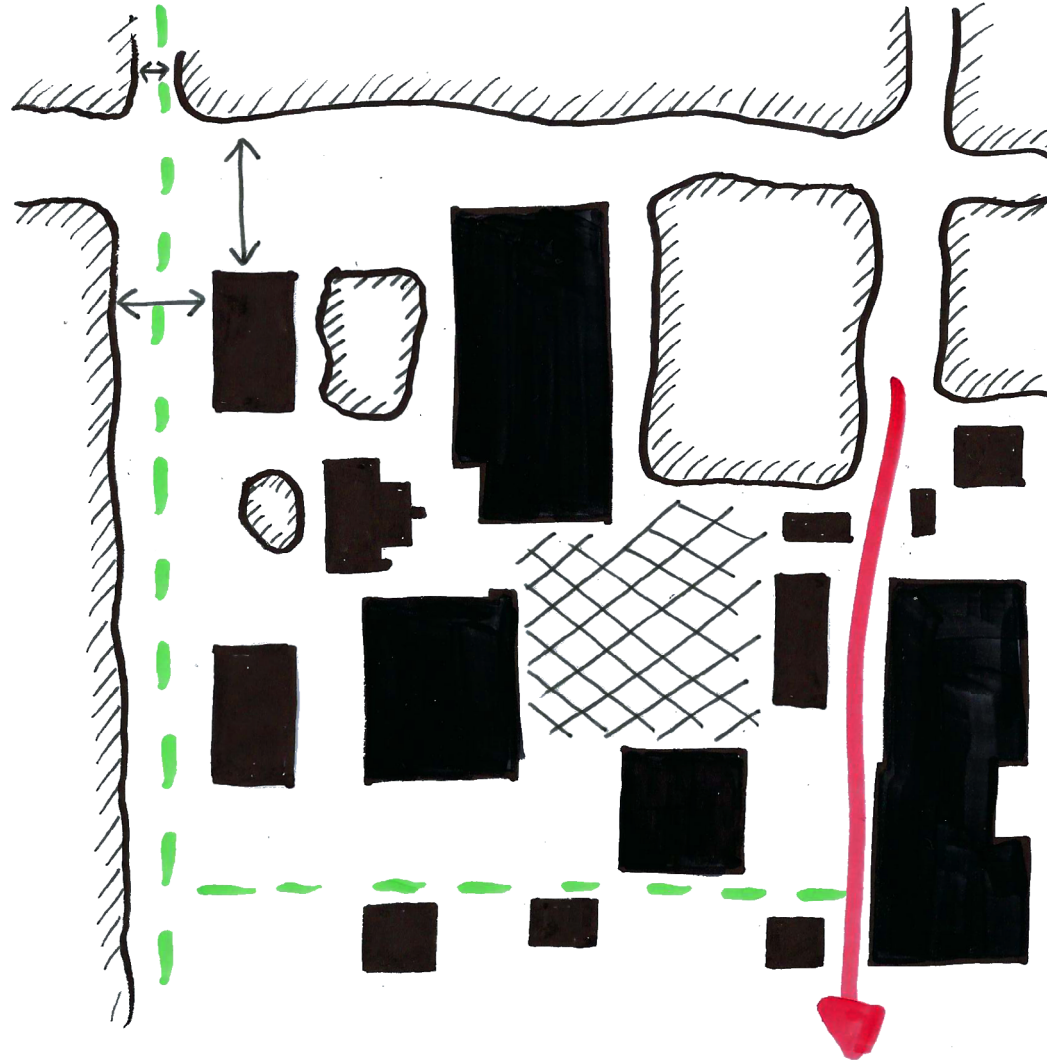
Campus North

Clarifying the entrance



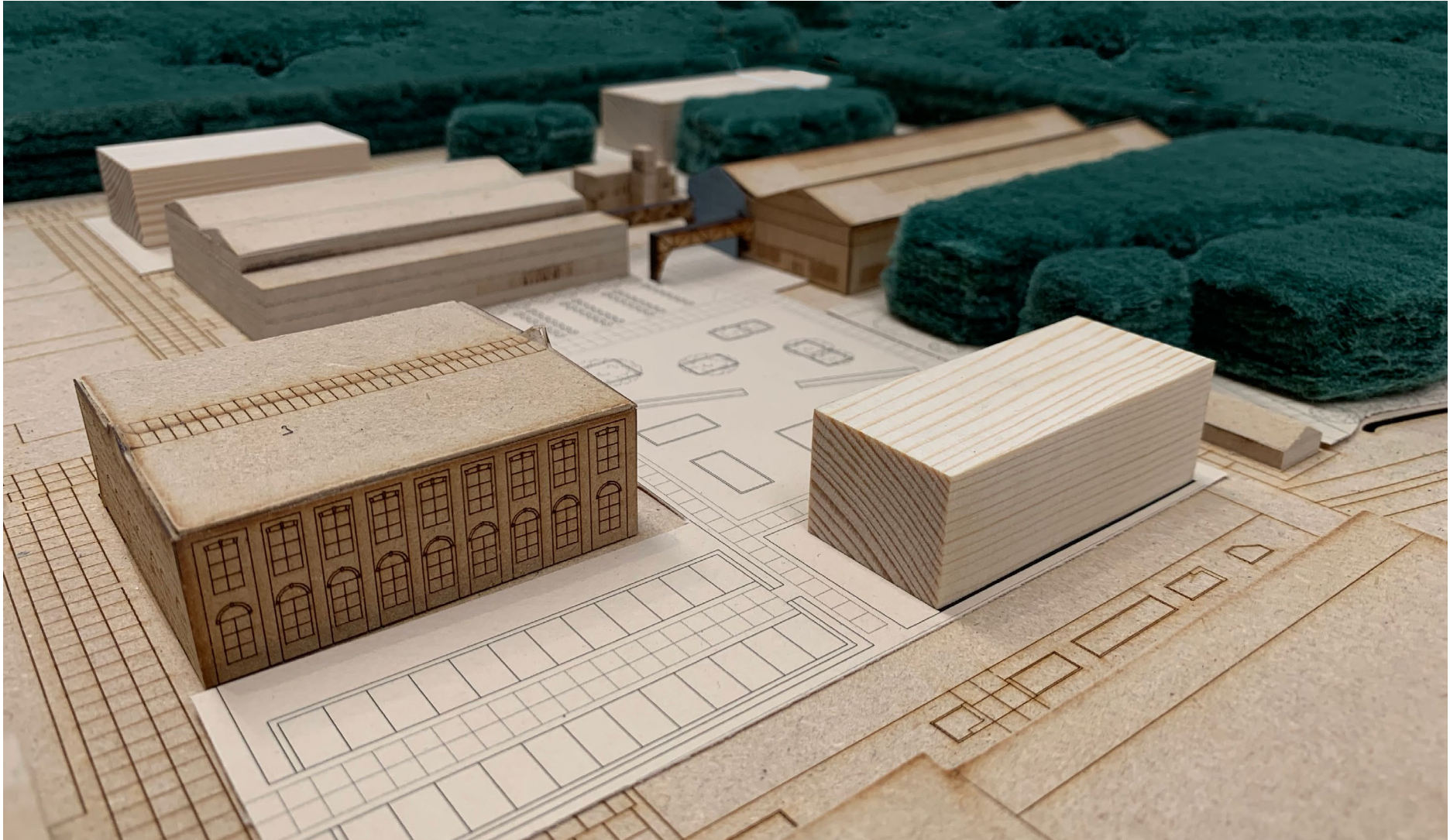
Campus North

Protect and direct



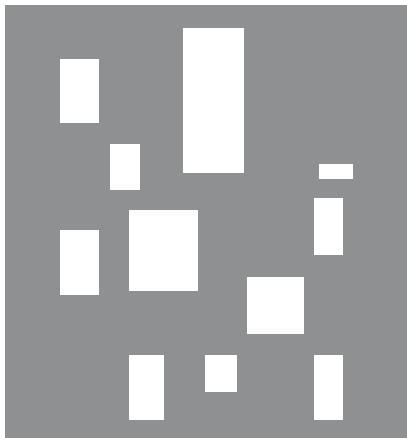
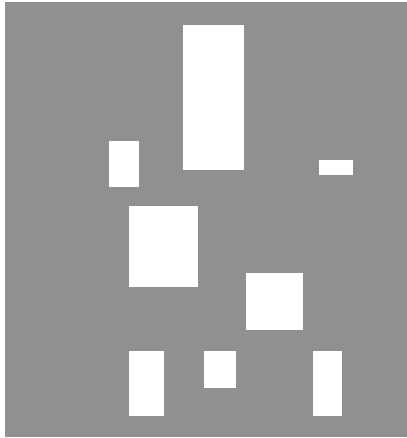
Campus North

Protect and direct

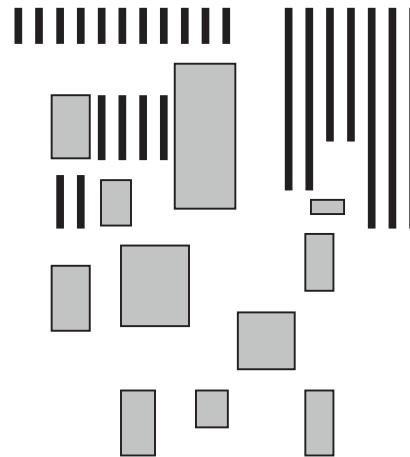
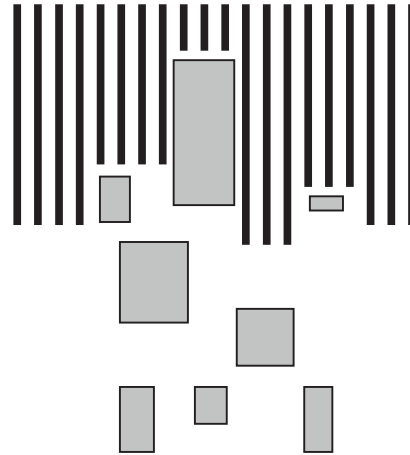


Campus North

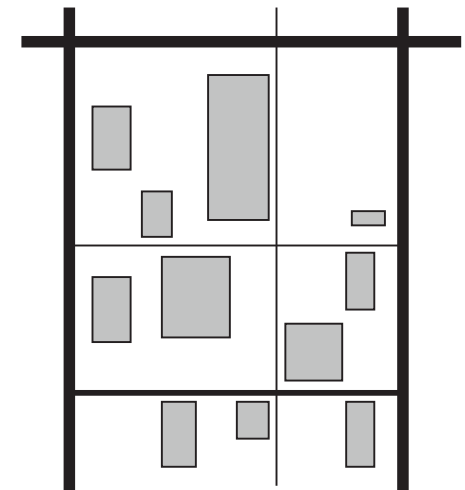
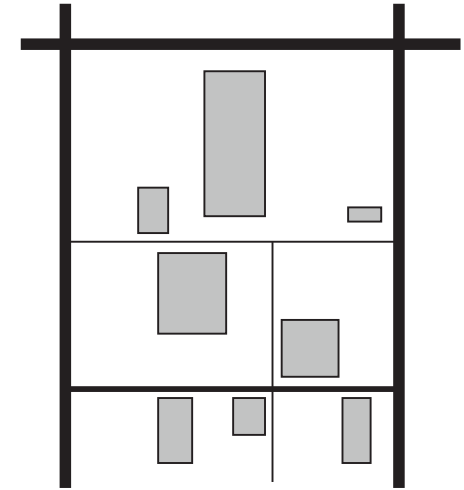
Symbiosis



Shared public space



Forest edge



Structure



Campus North

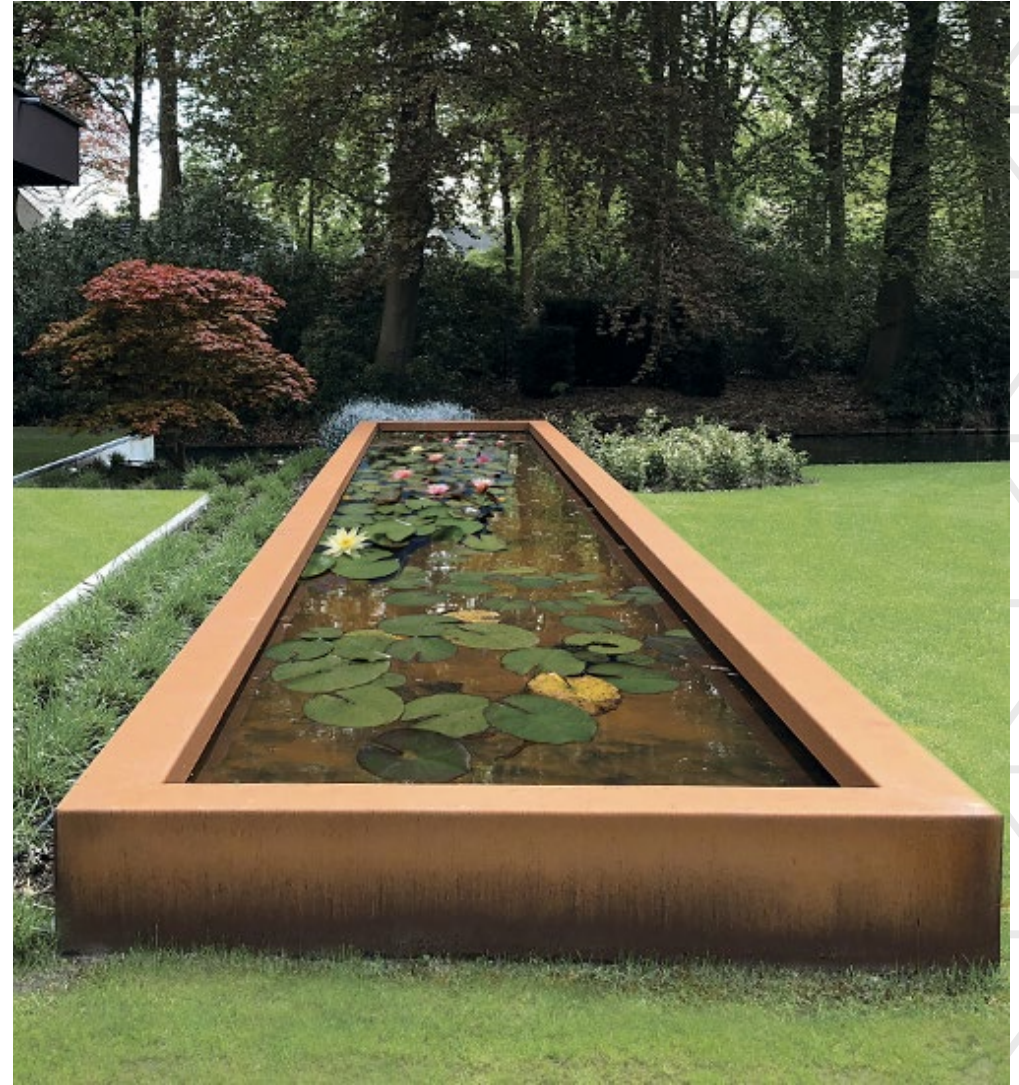
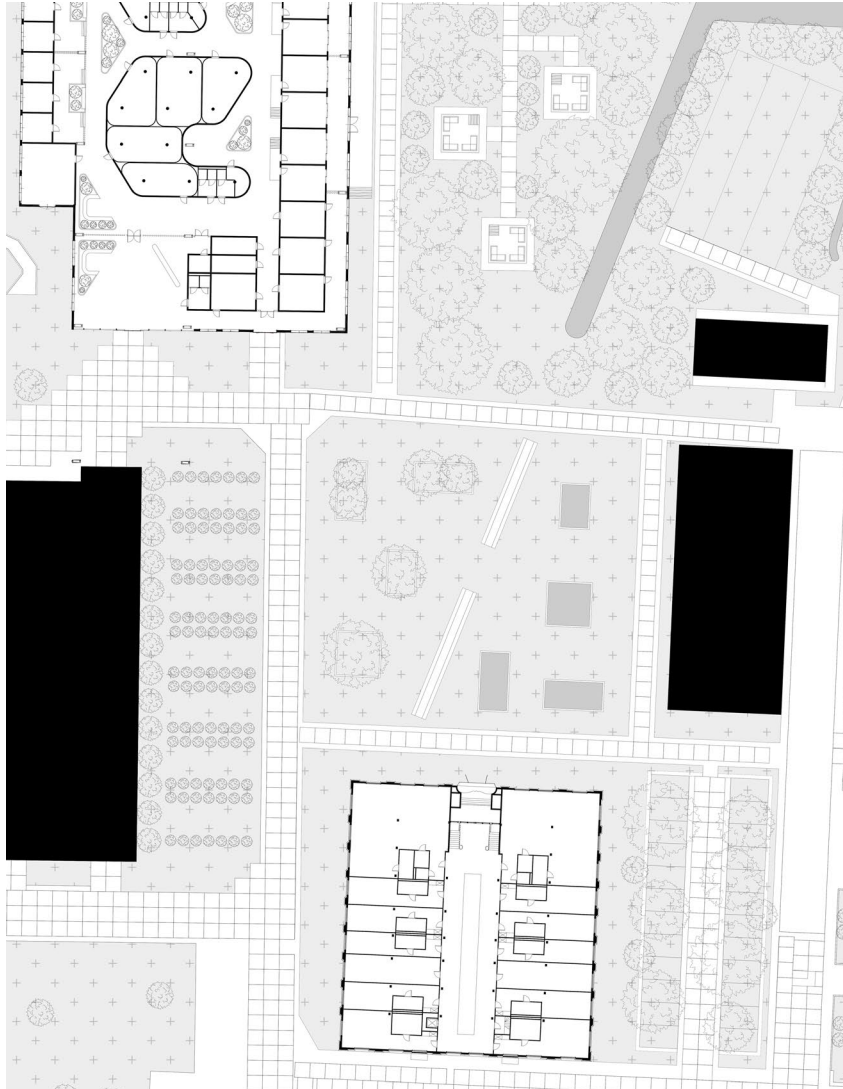
Masterplan



N

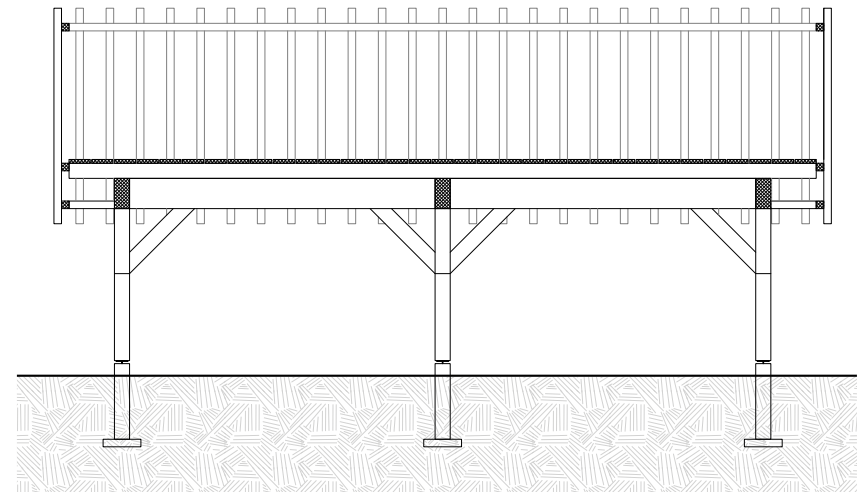
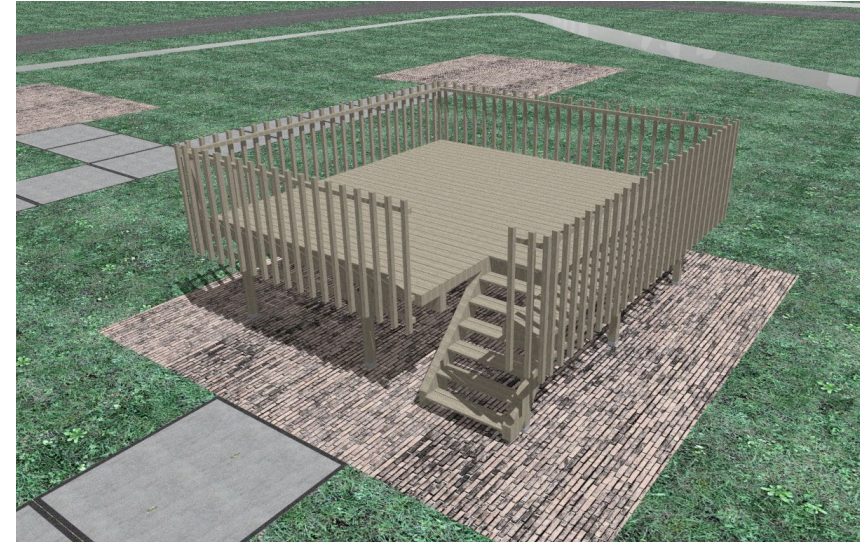
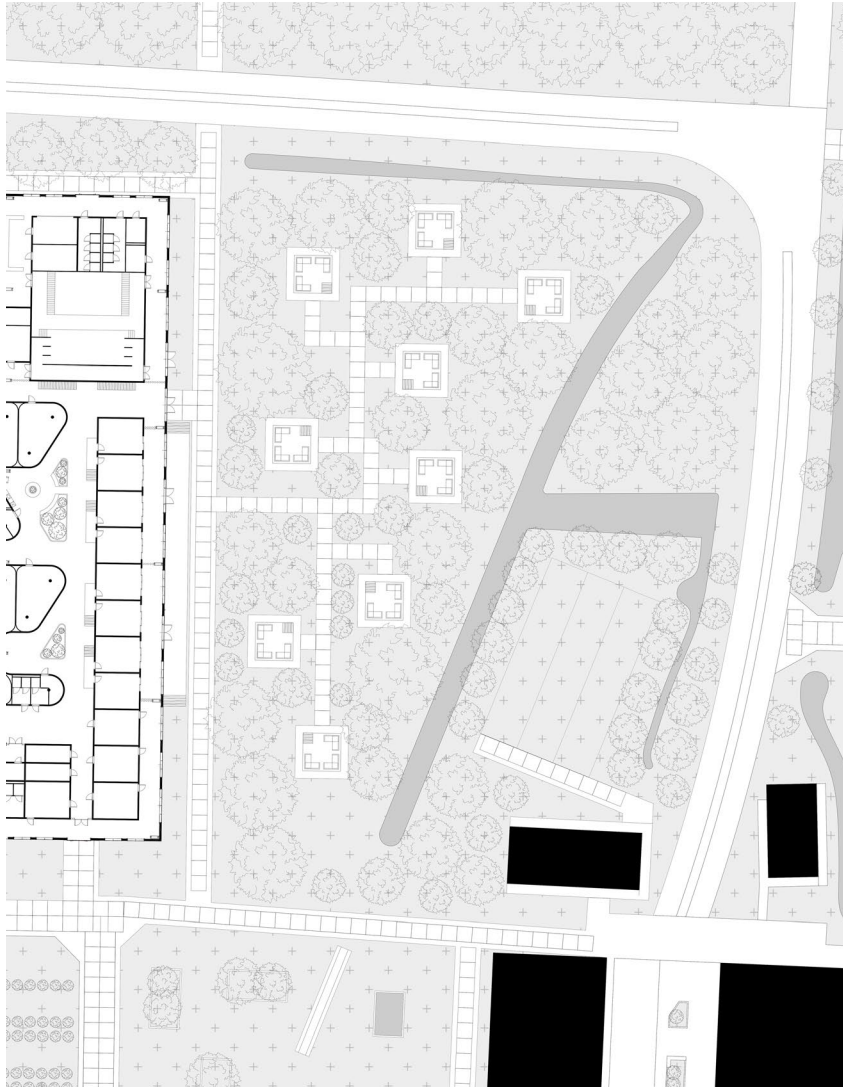
Campus North

Community space



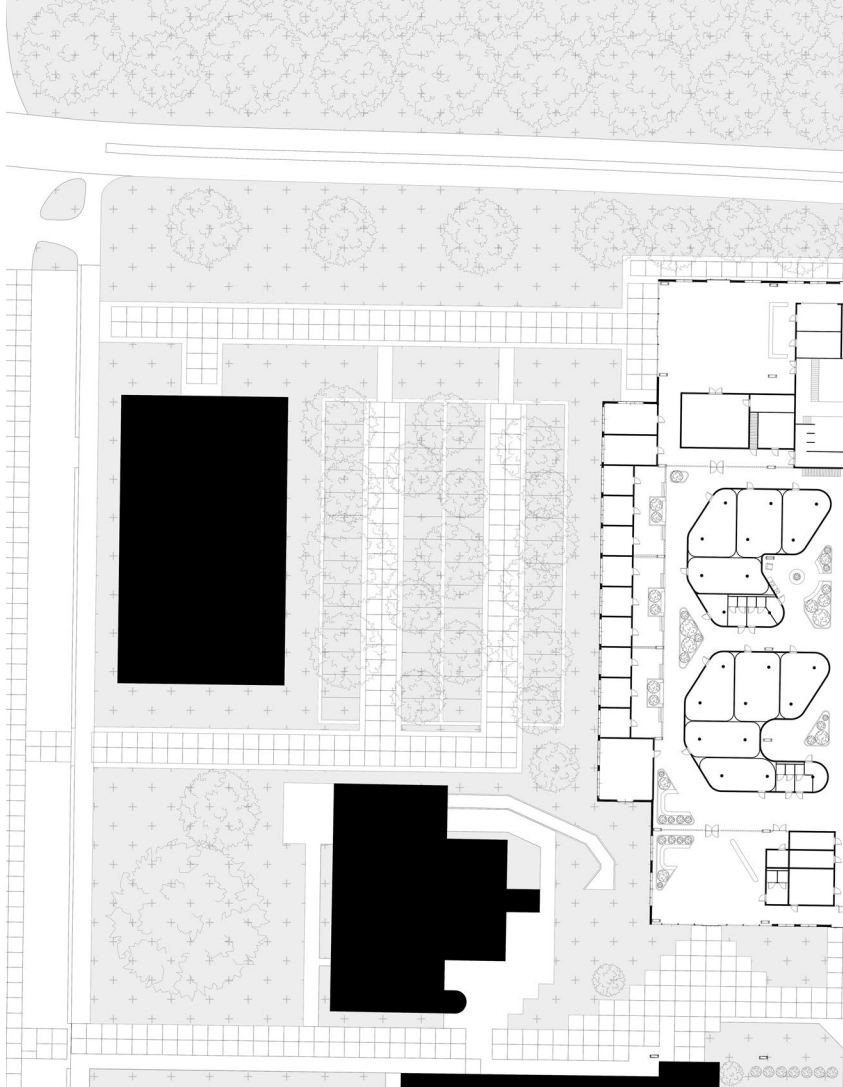
Campus North

Forest pavilions



Campus North

Parking

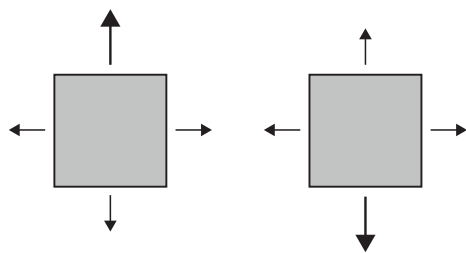


Weapon depot

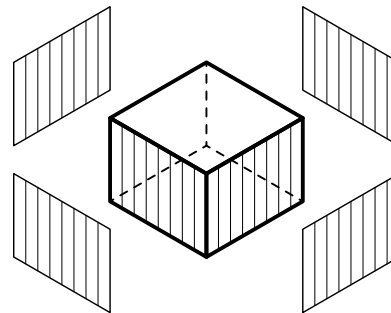


Weapon depot

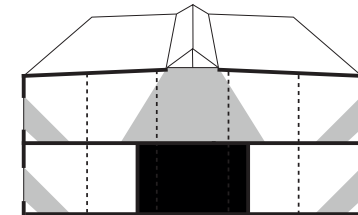
DNA



Orientation over time



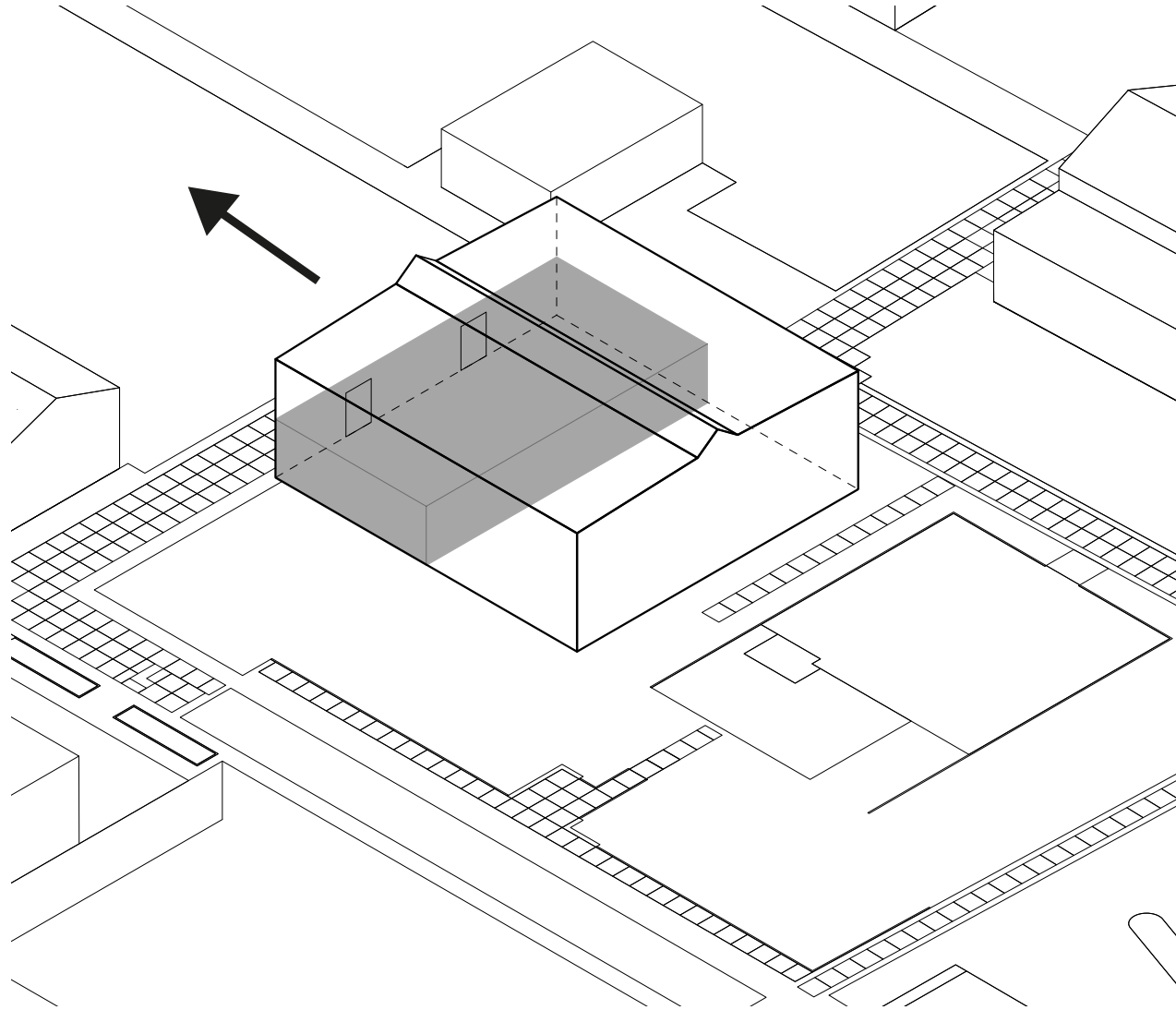
Facades and rhythm



Skylight and structure

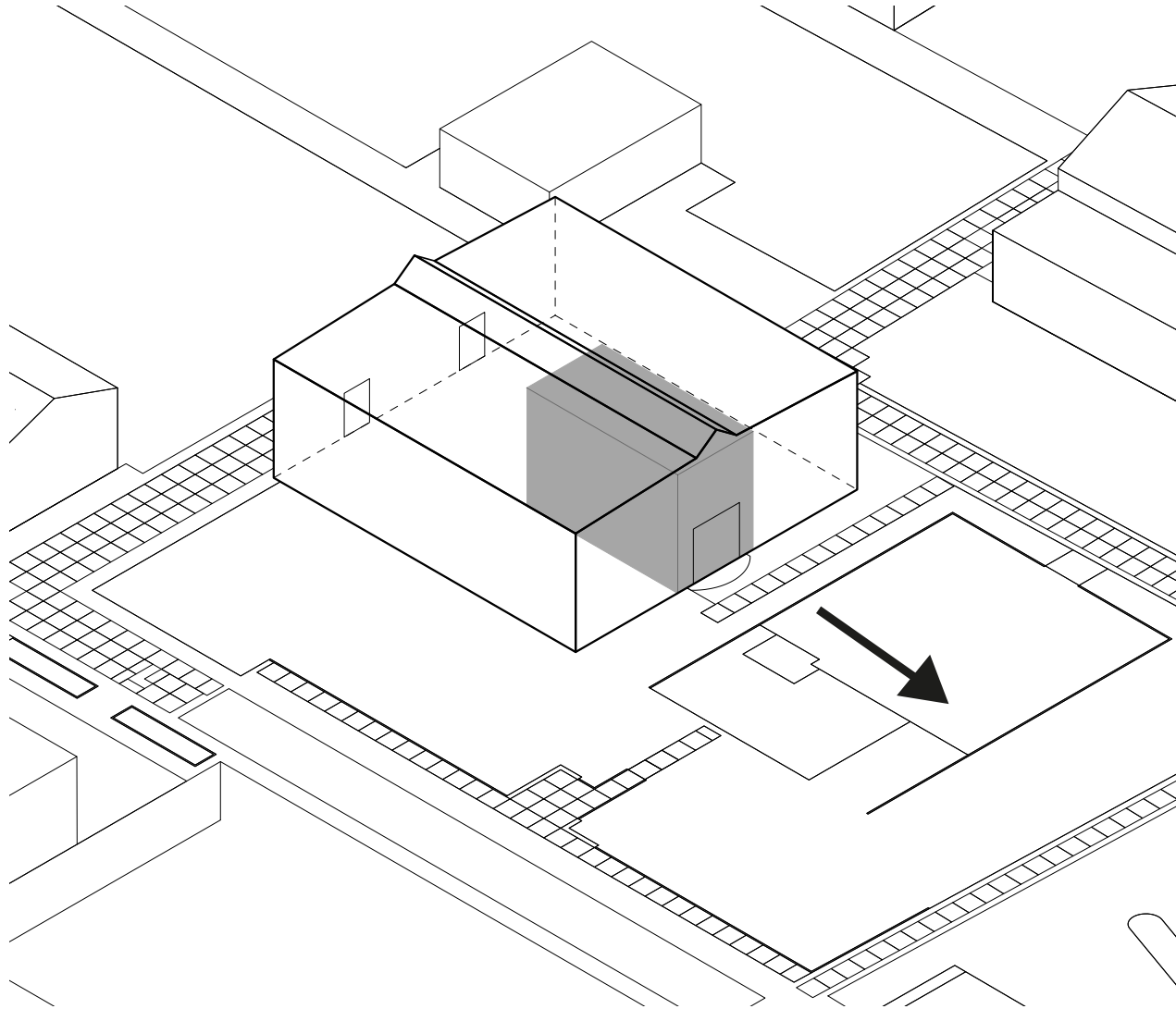
Weapon depot

Original orientation 1899



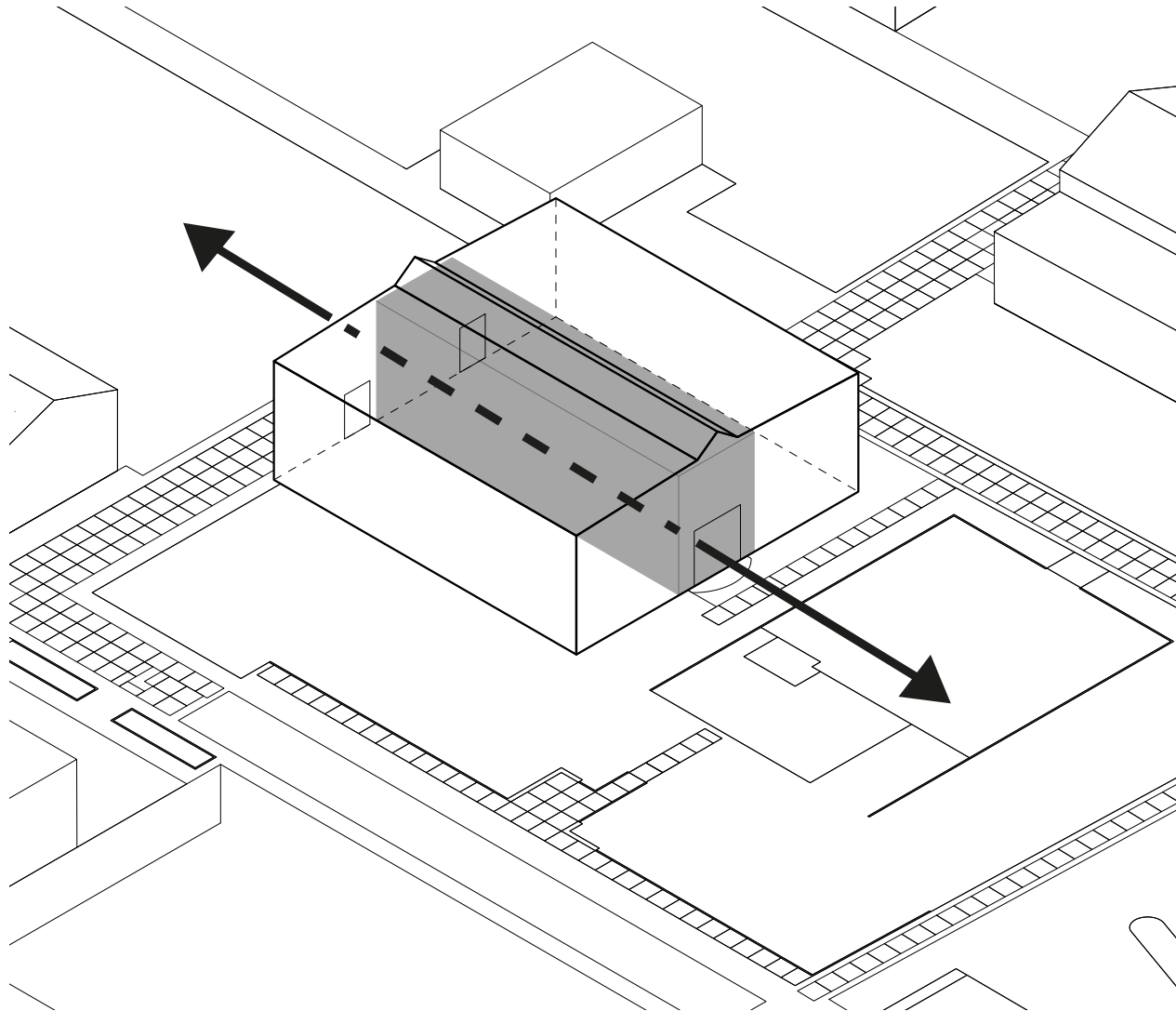
Weapon depot

First redesign 1950



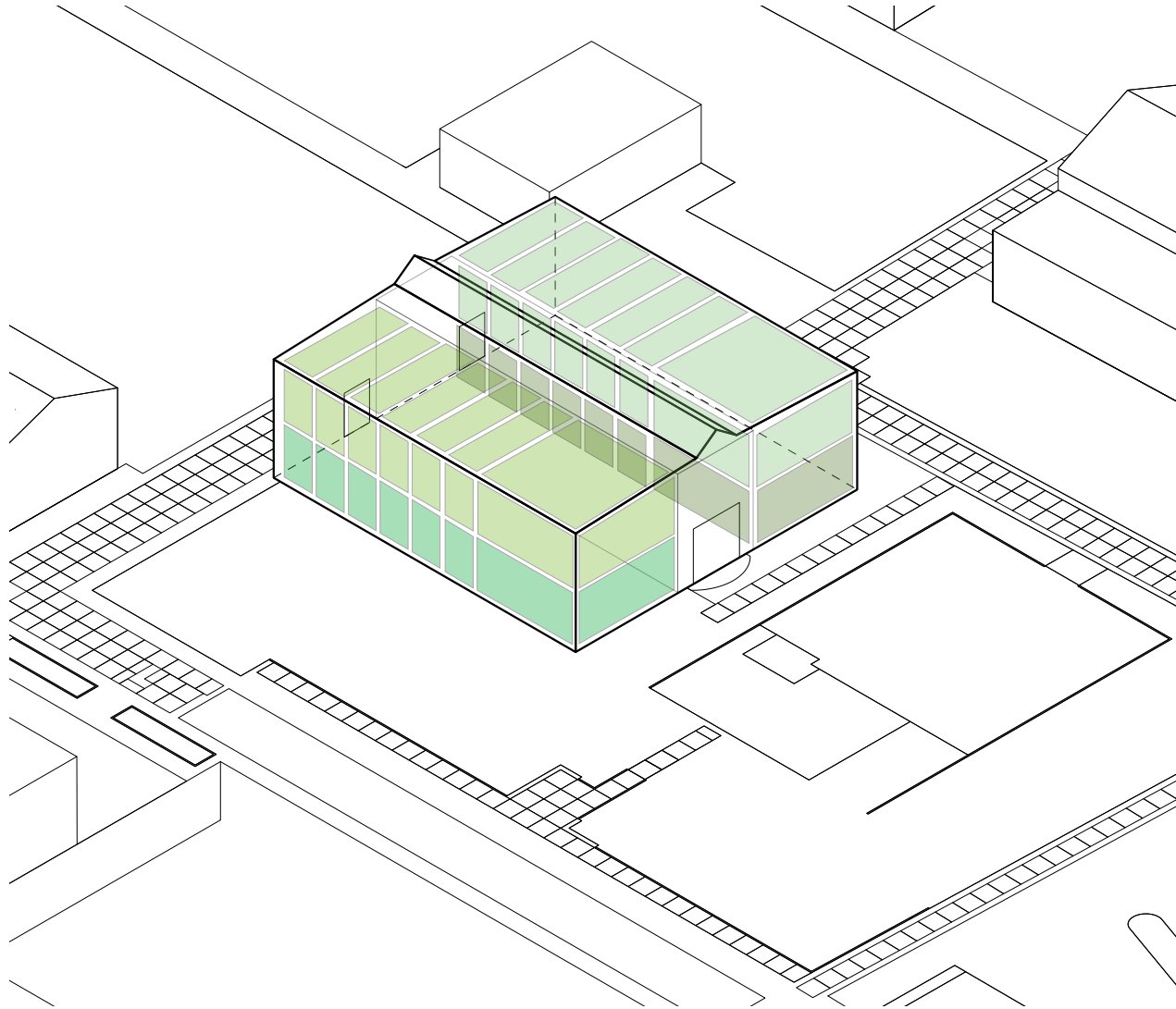
Weapon depot

Interior North-South reconnection



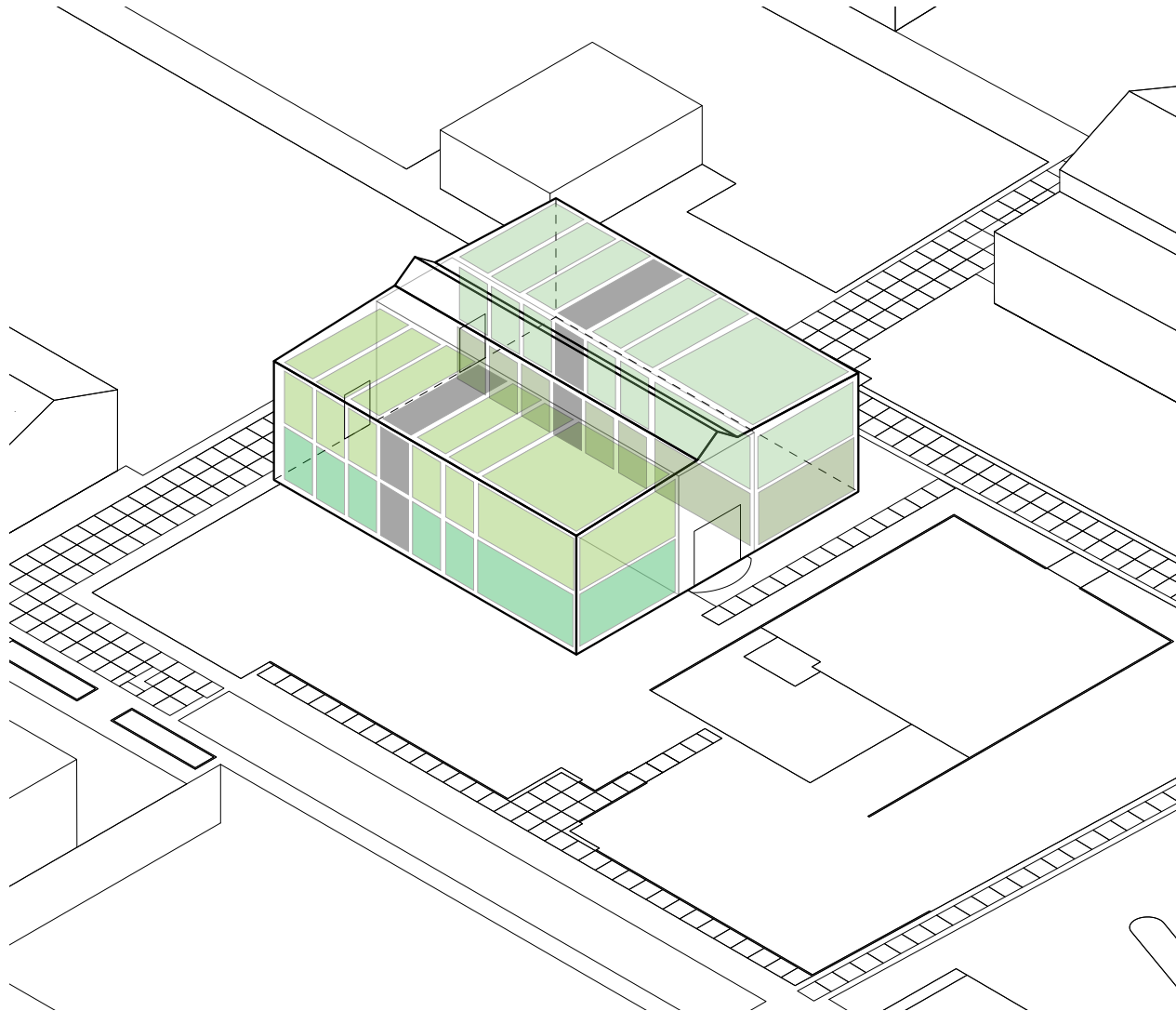
Weapon depot

Program



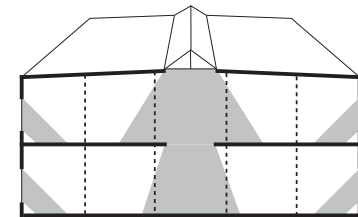
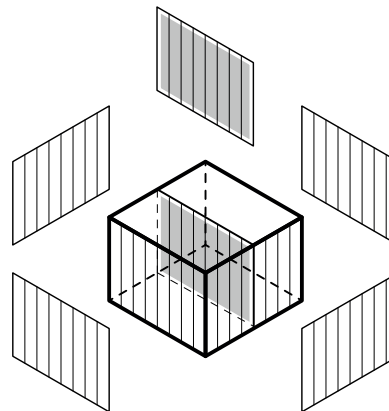
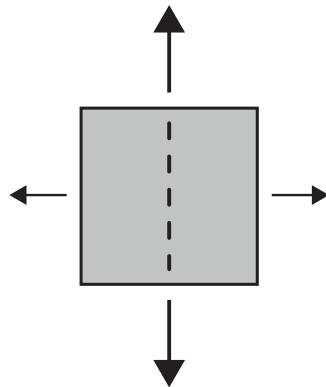
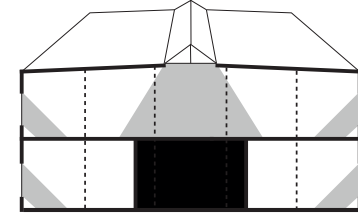
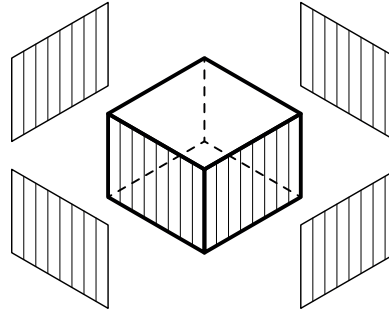
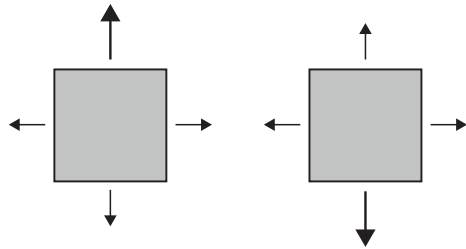
Weapon depot

Facilities



Weapon depot

Symbiosis



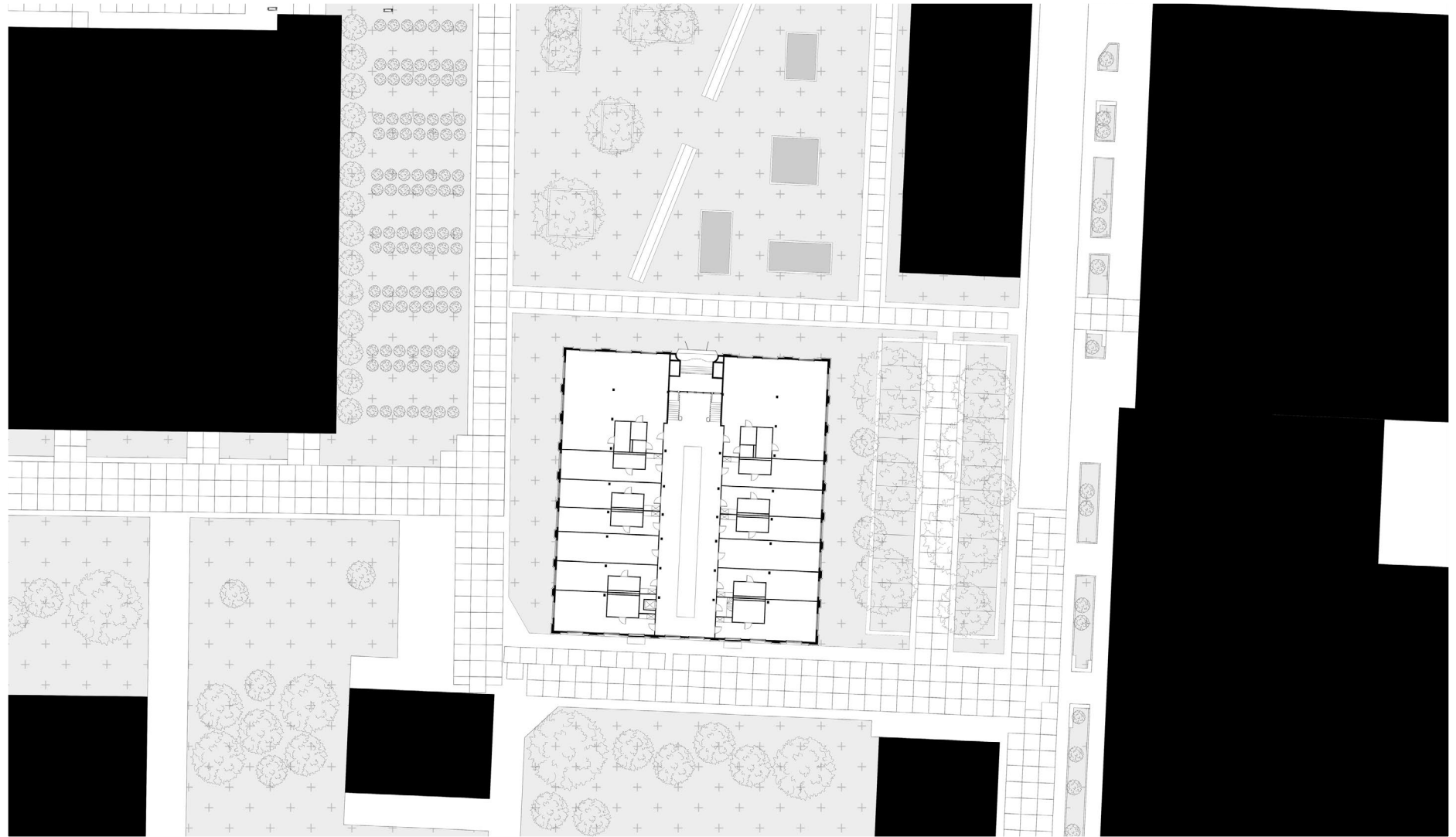
Orientation over time

Facades and rhythm

Skylight and structure

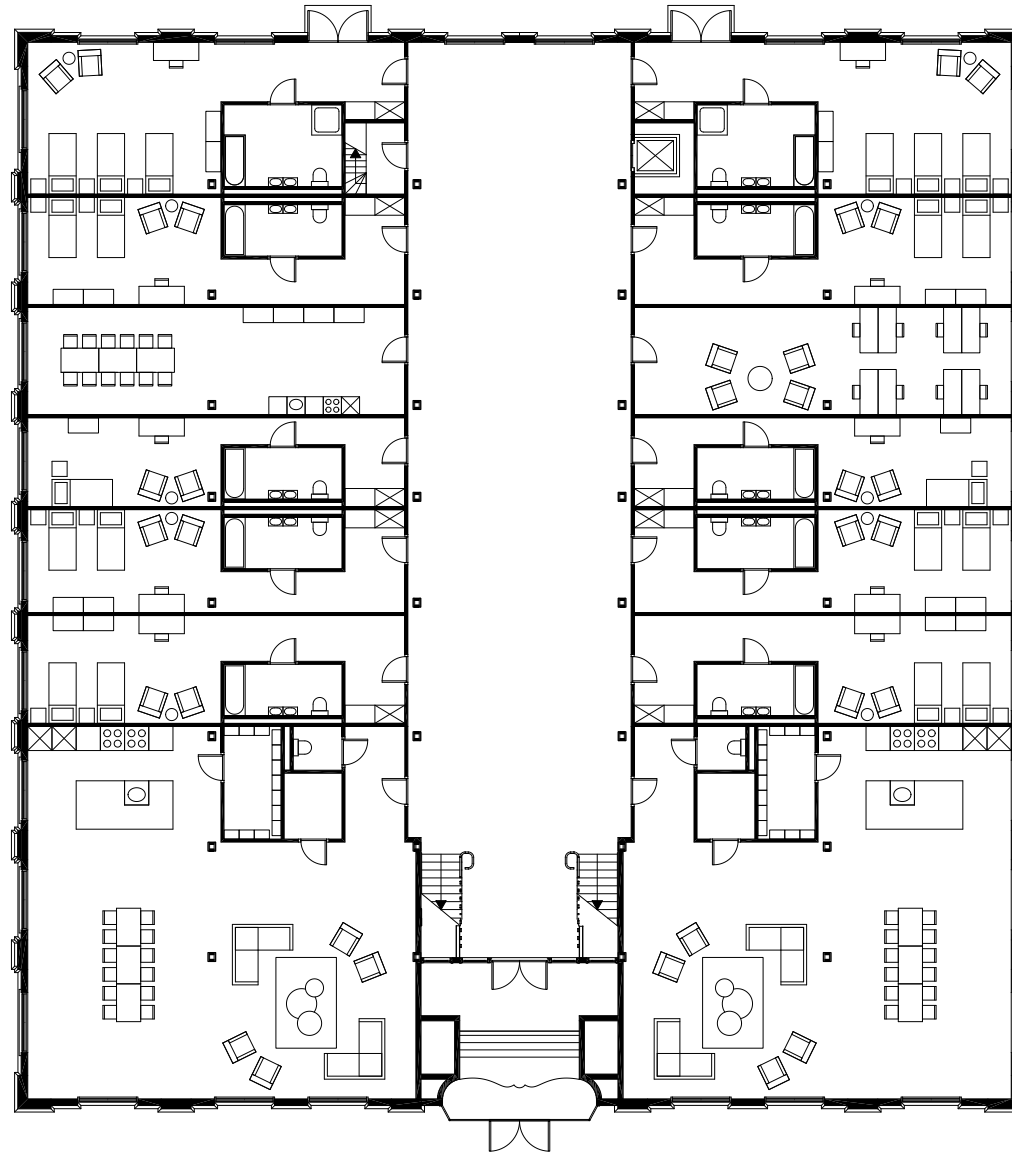
Weapon depot

Urban plan



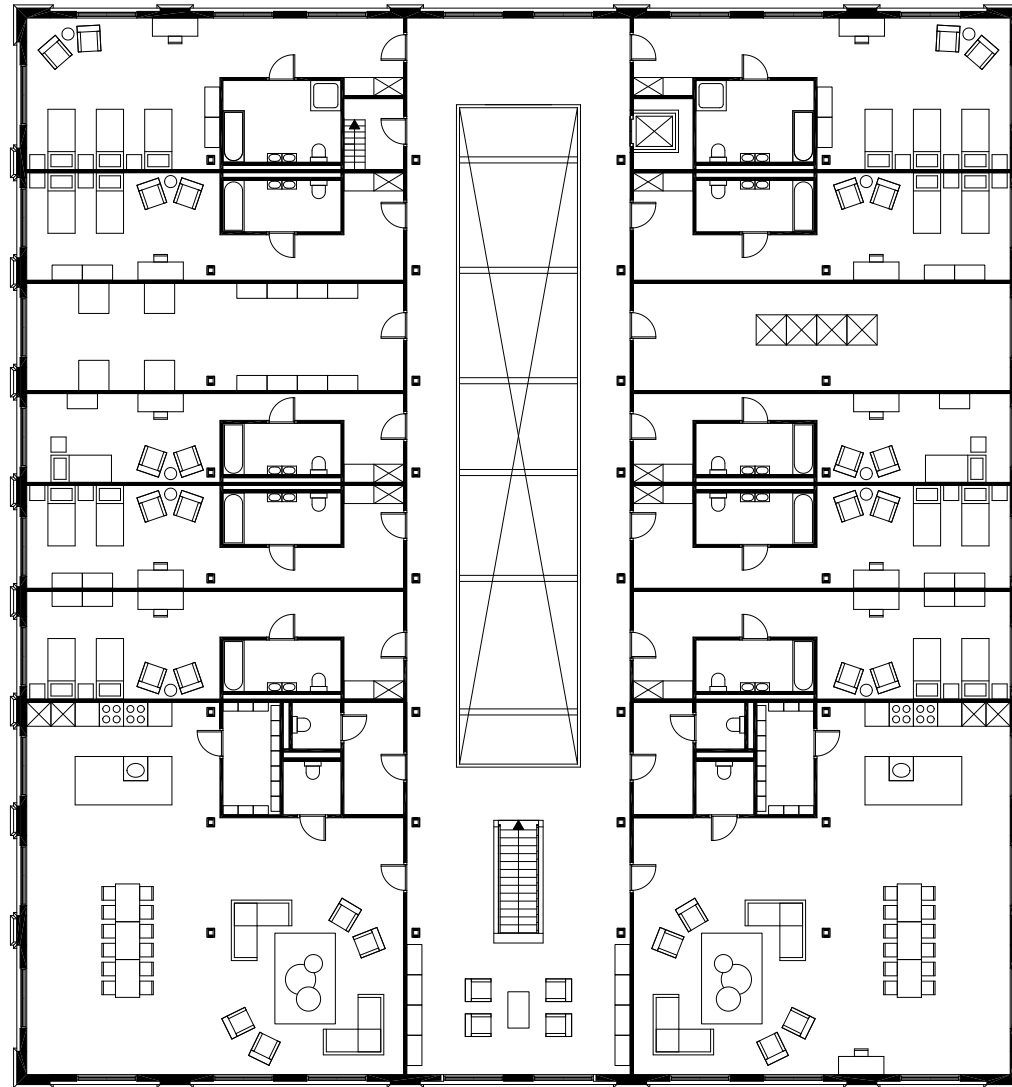
Weapon depot

Ground floor



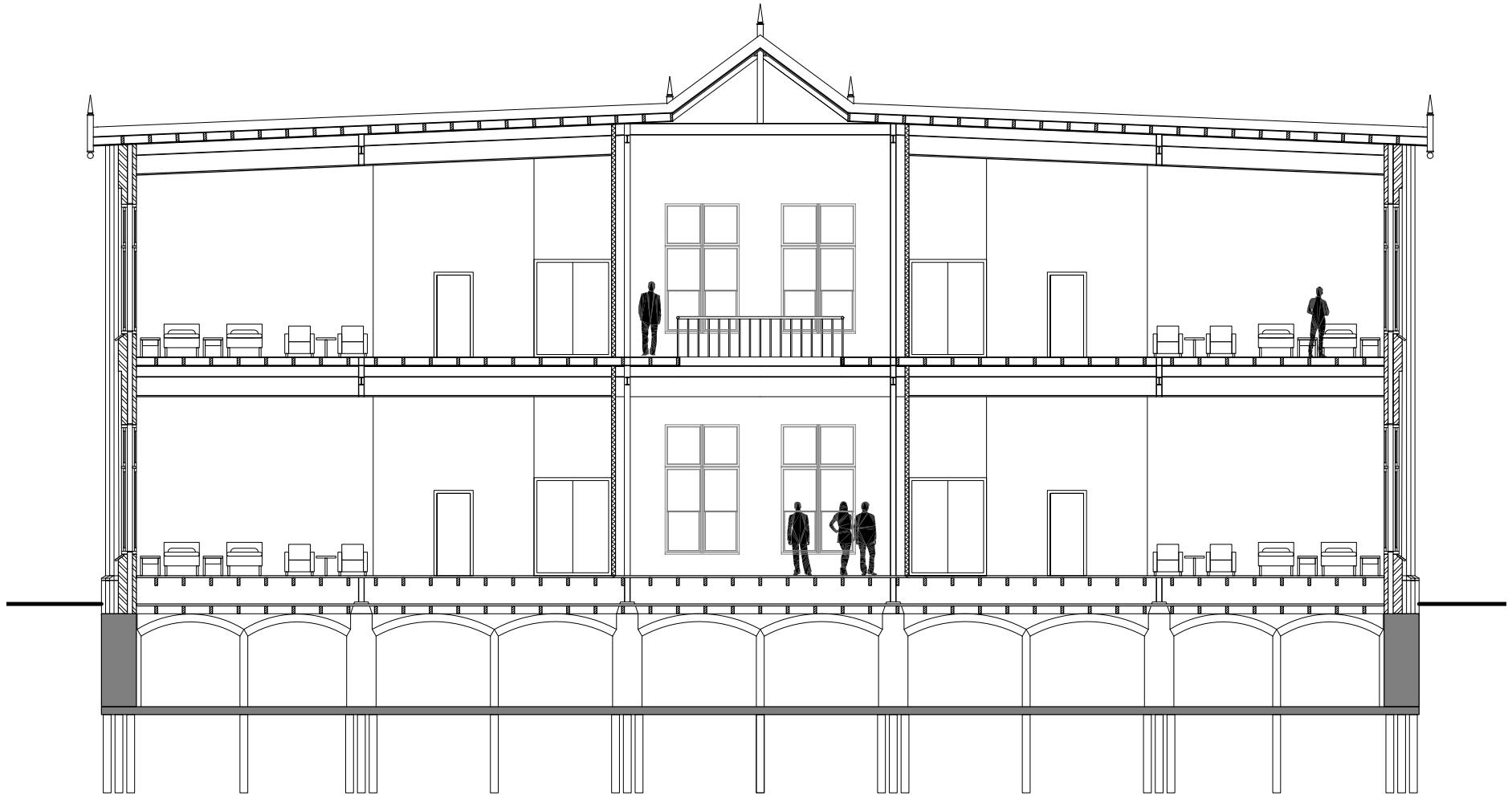
Weapon depot

First floor



Weapon depot

East-West section

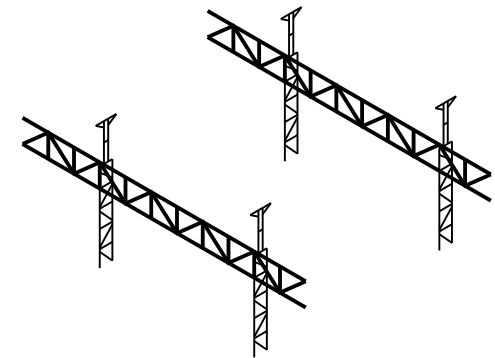
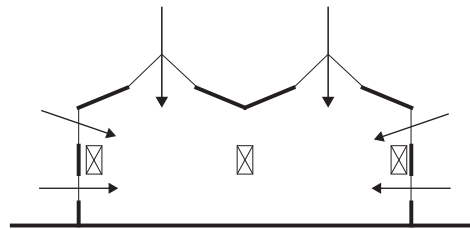
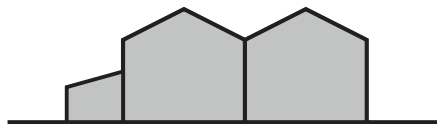
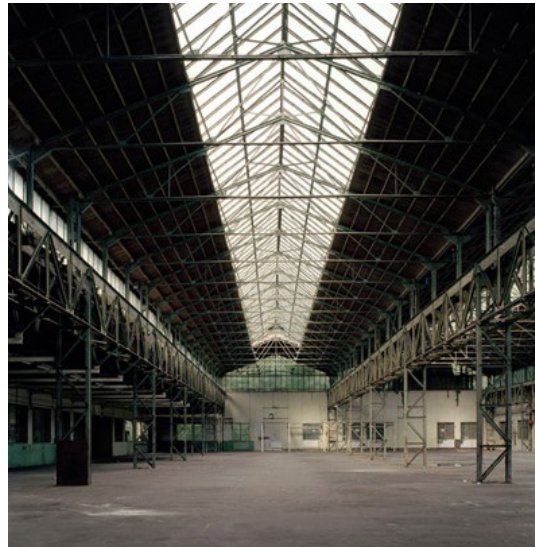


Machine hall



Machine hall

DNA



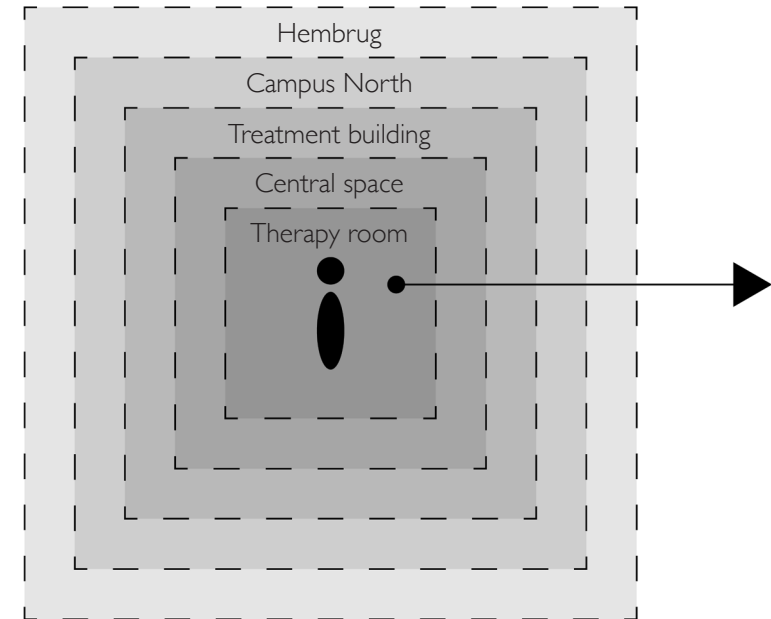
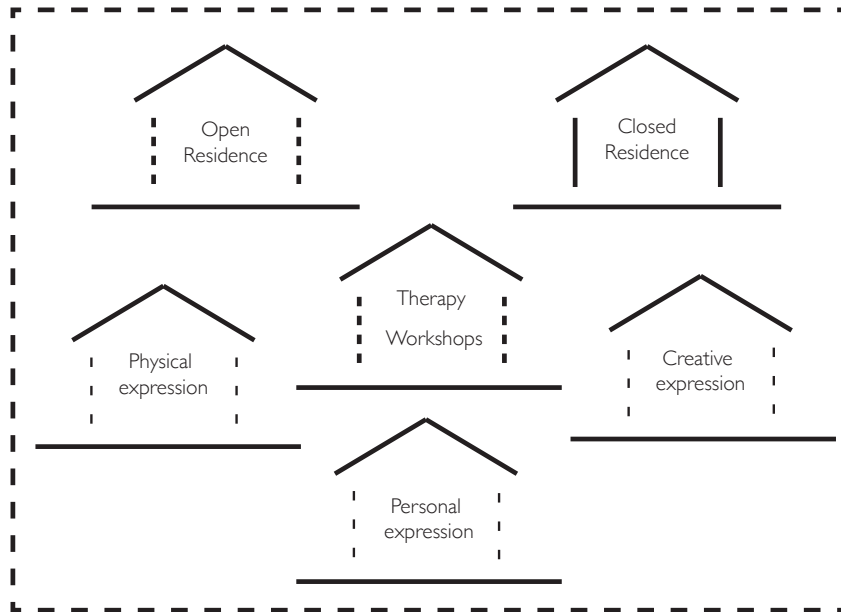
Typology

Facade and daylight

Construction

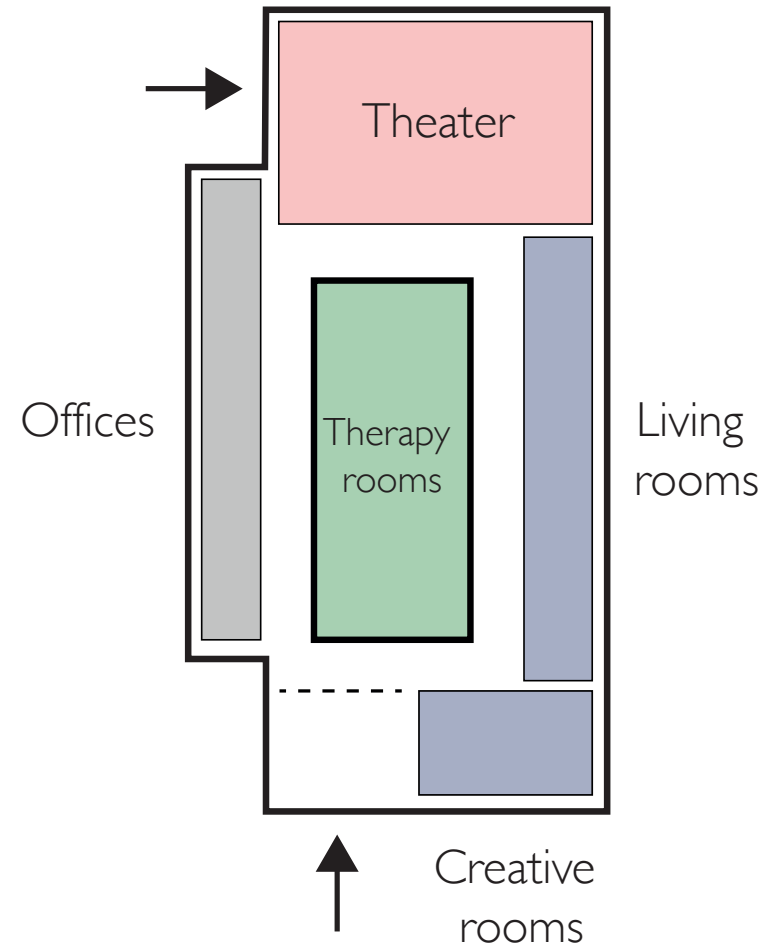
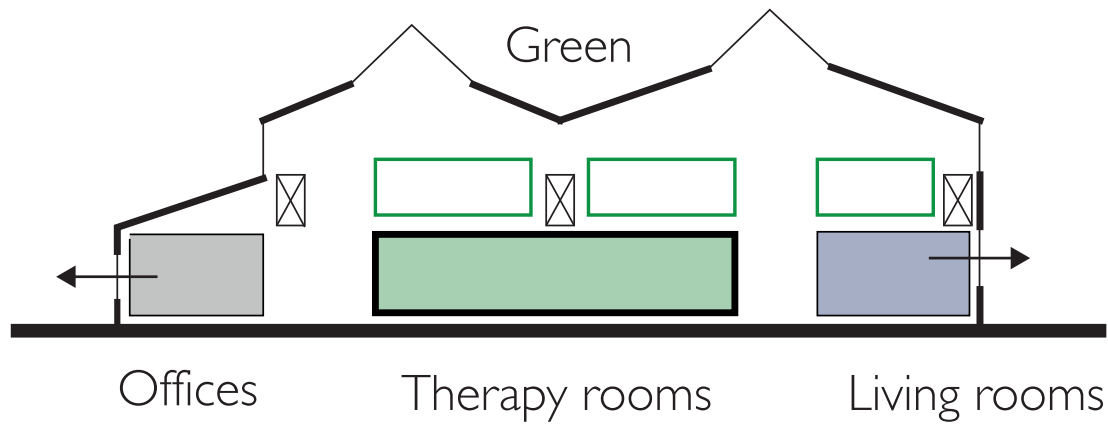
Machine hall

Program



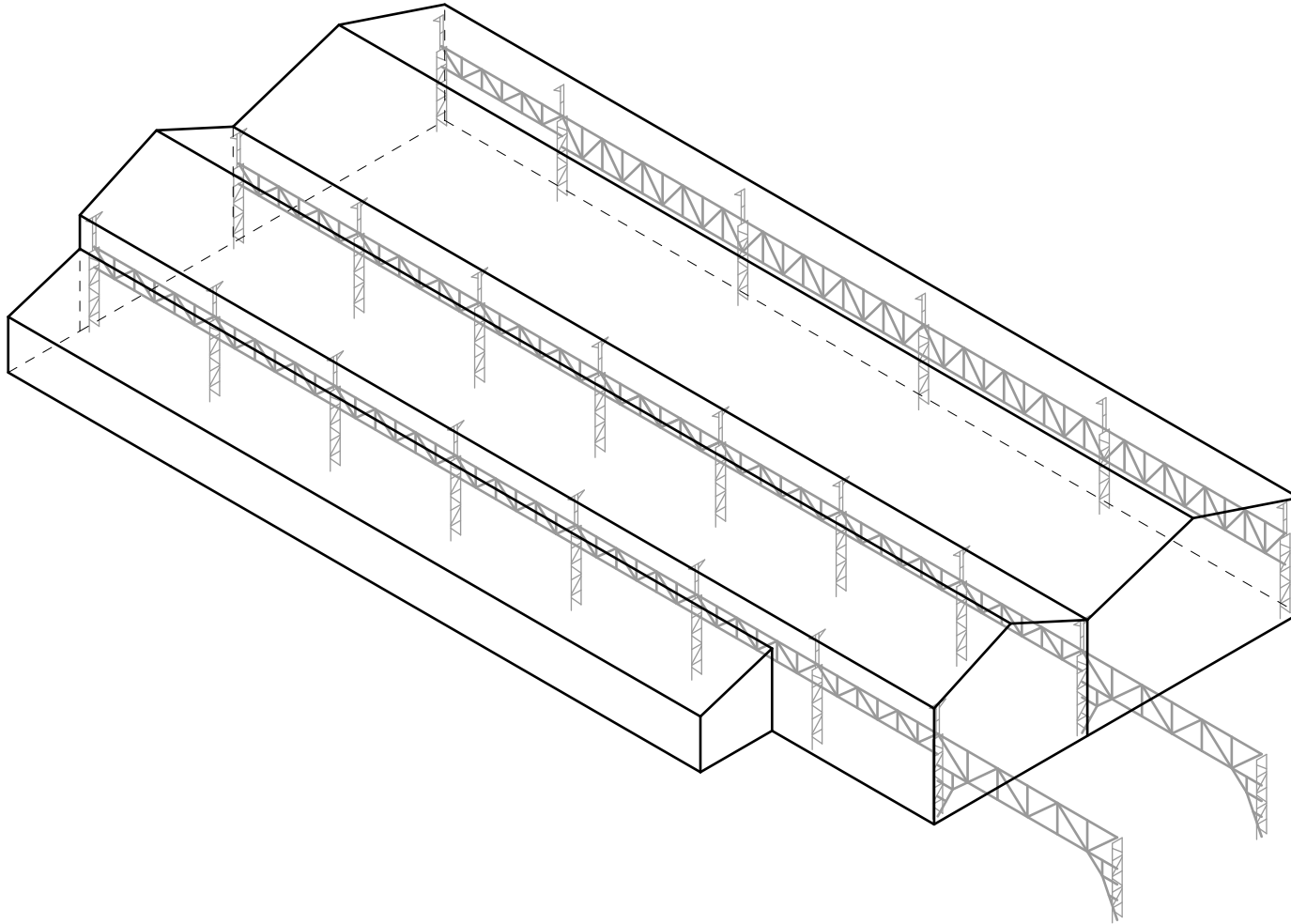
Machine hall

Organization



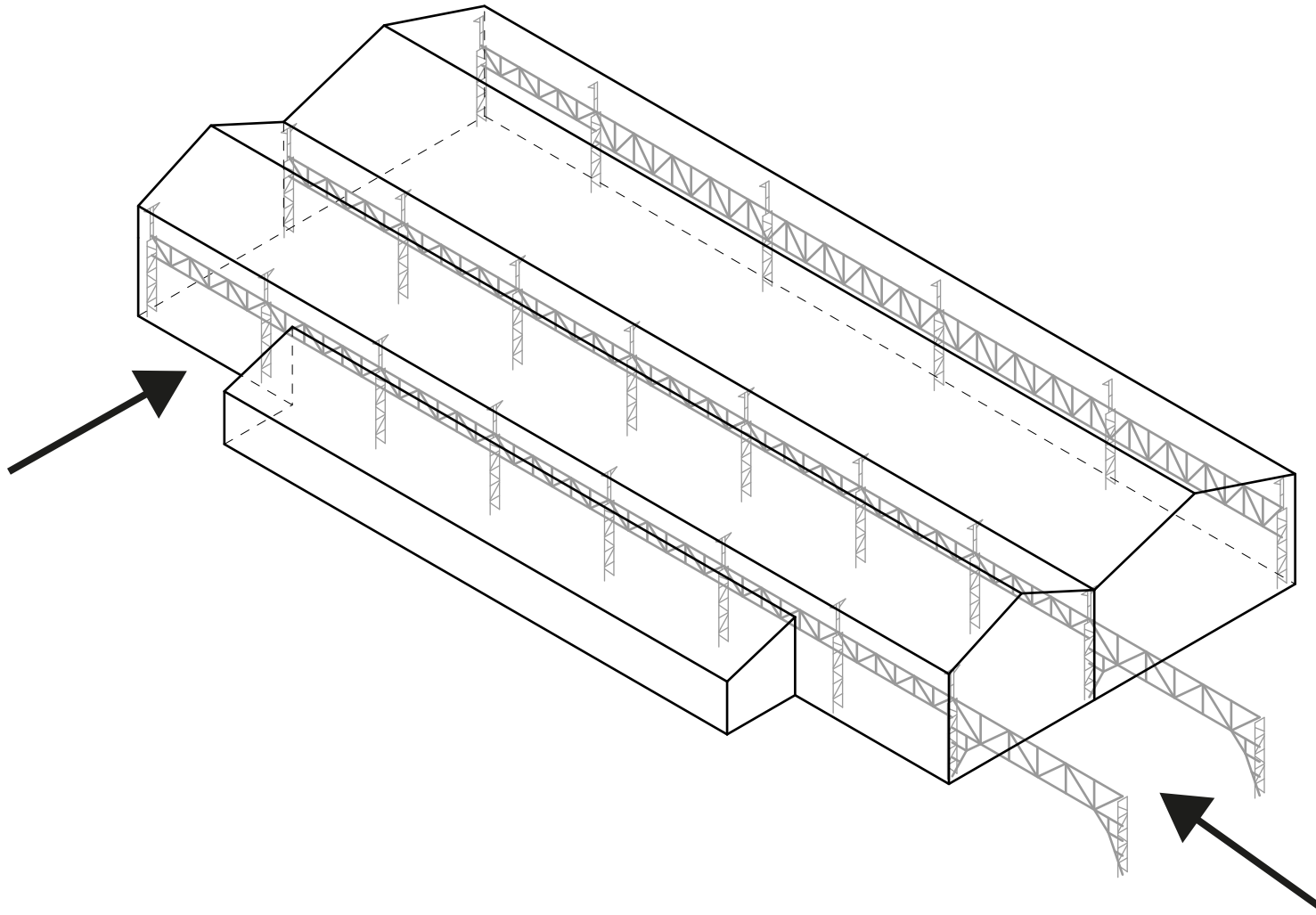
Machine hall

Removing the annexes



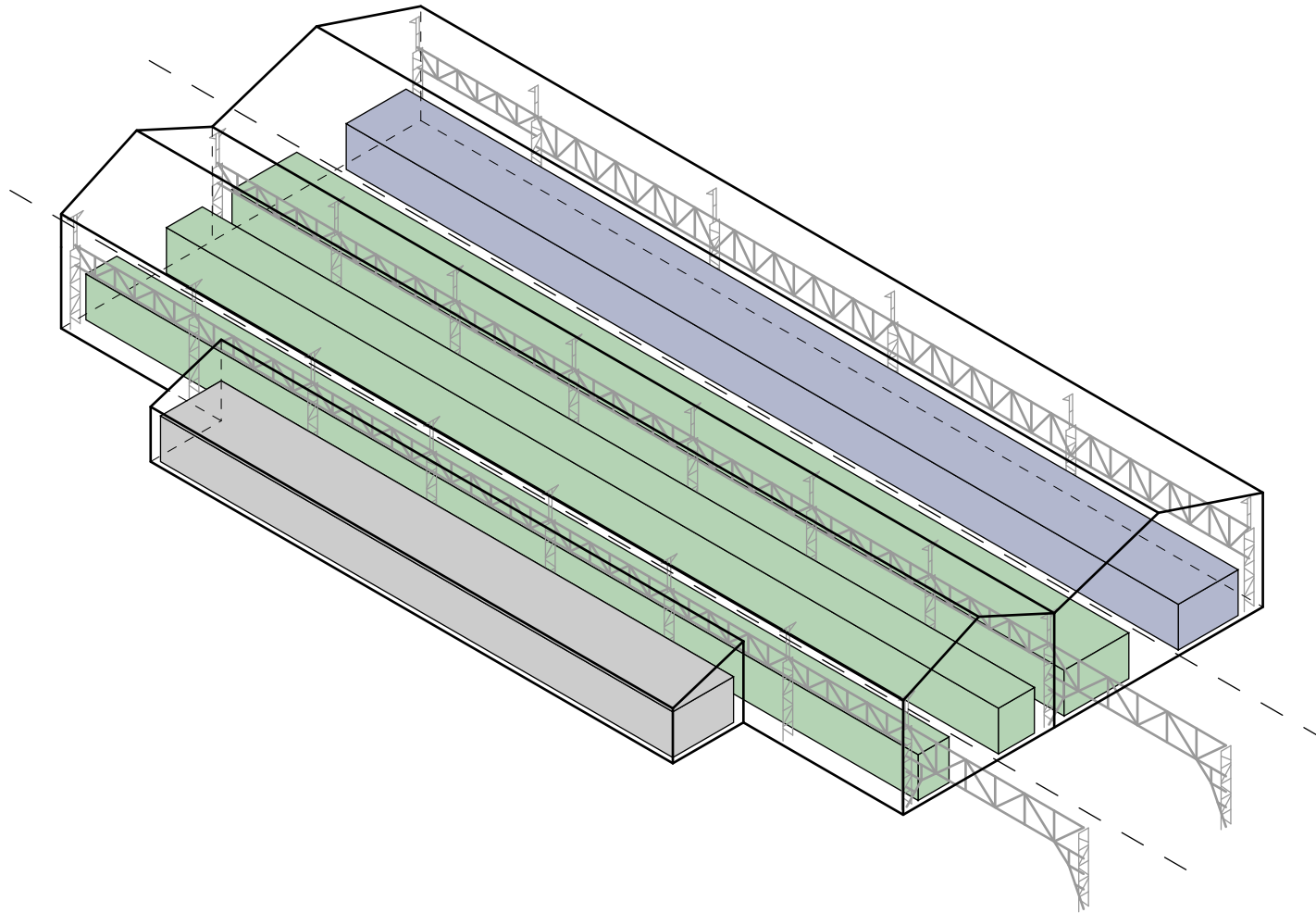
Machine hall

Creating new entrance



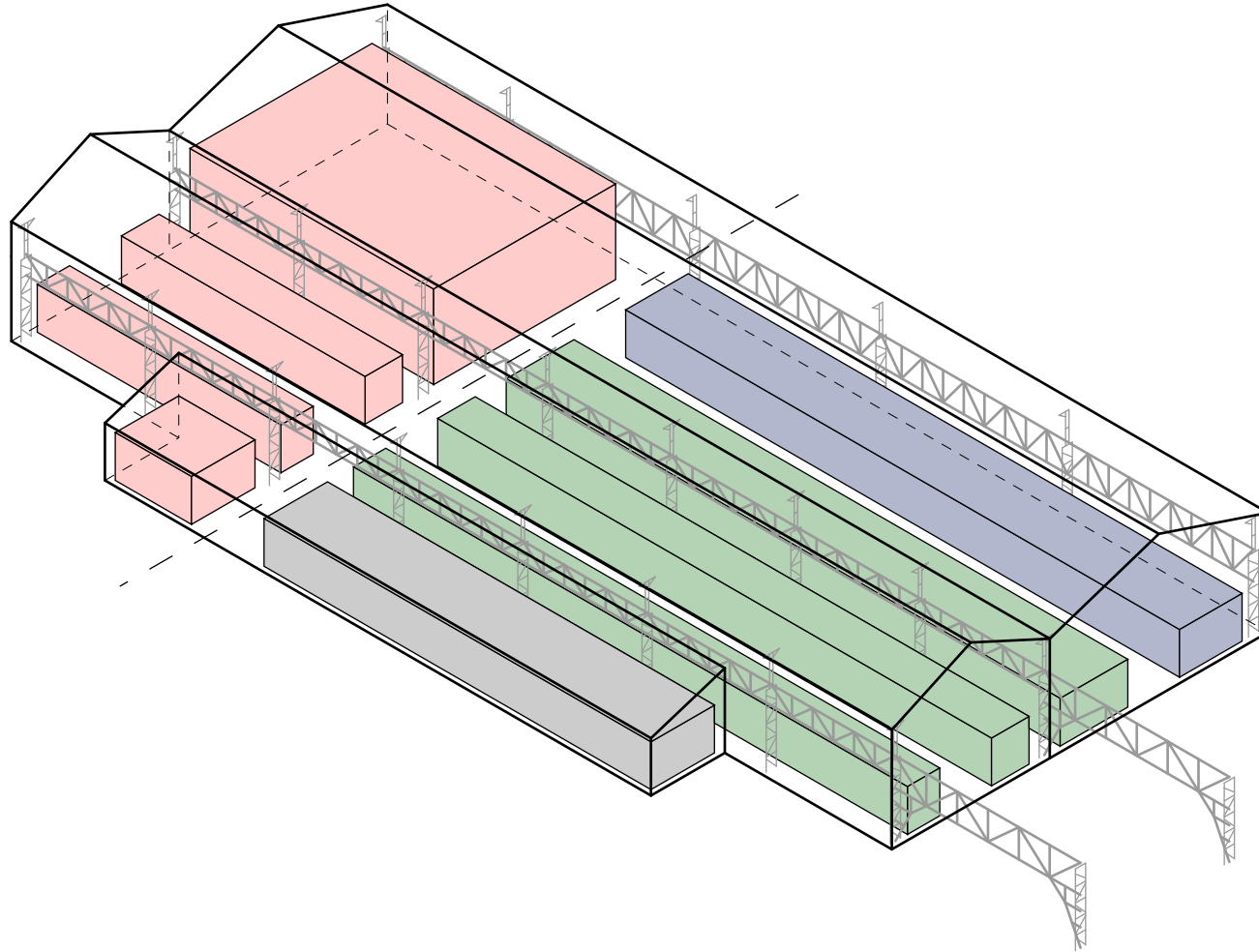
Machine hall

Functional plan



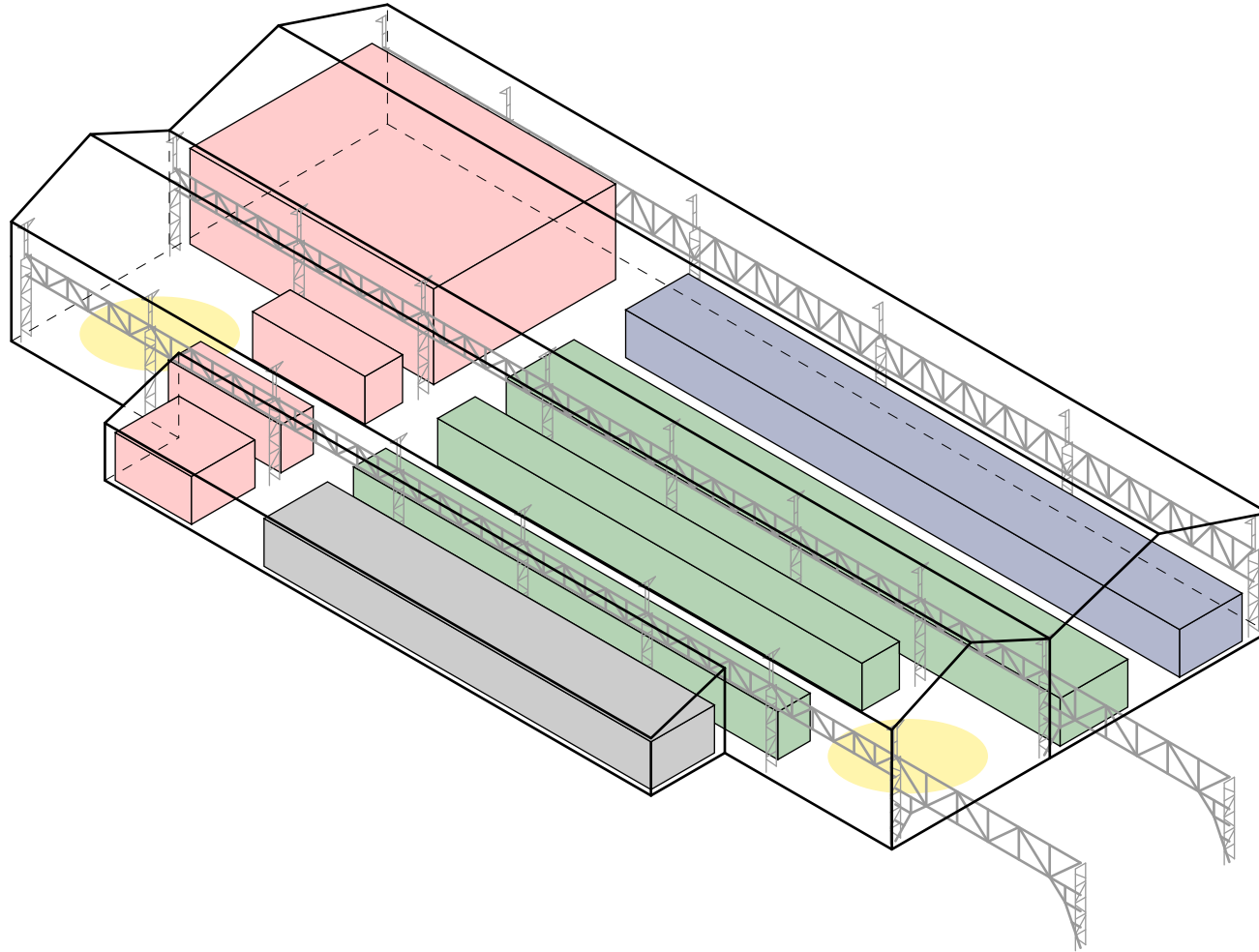
Machine hall

Theatre



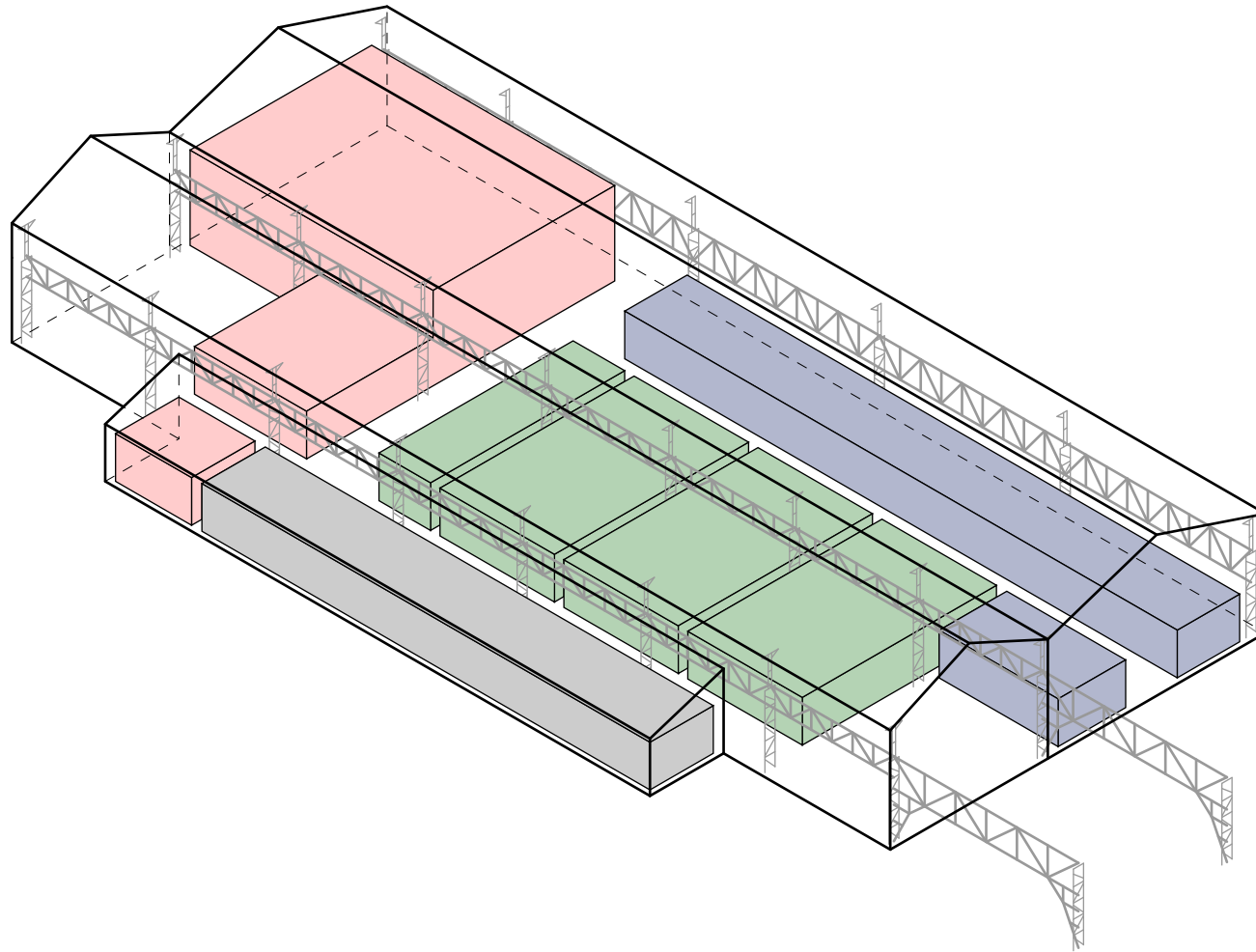
Machine hall

Entrance halls



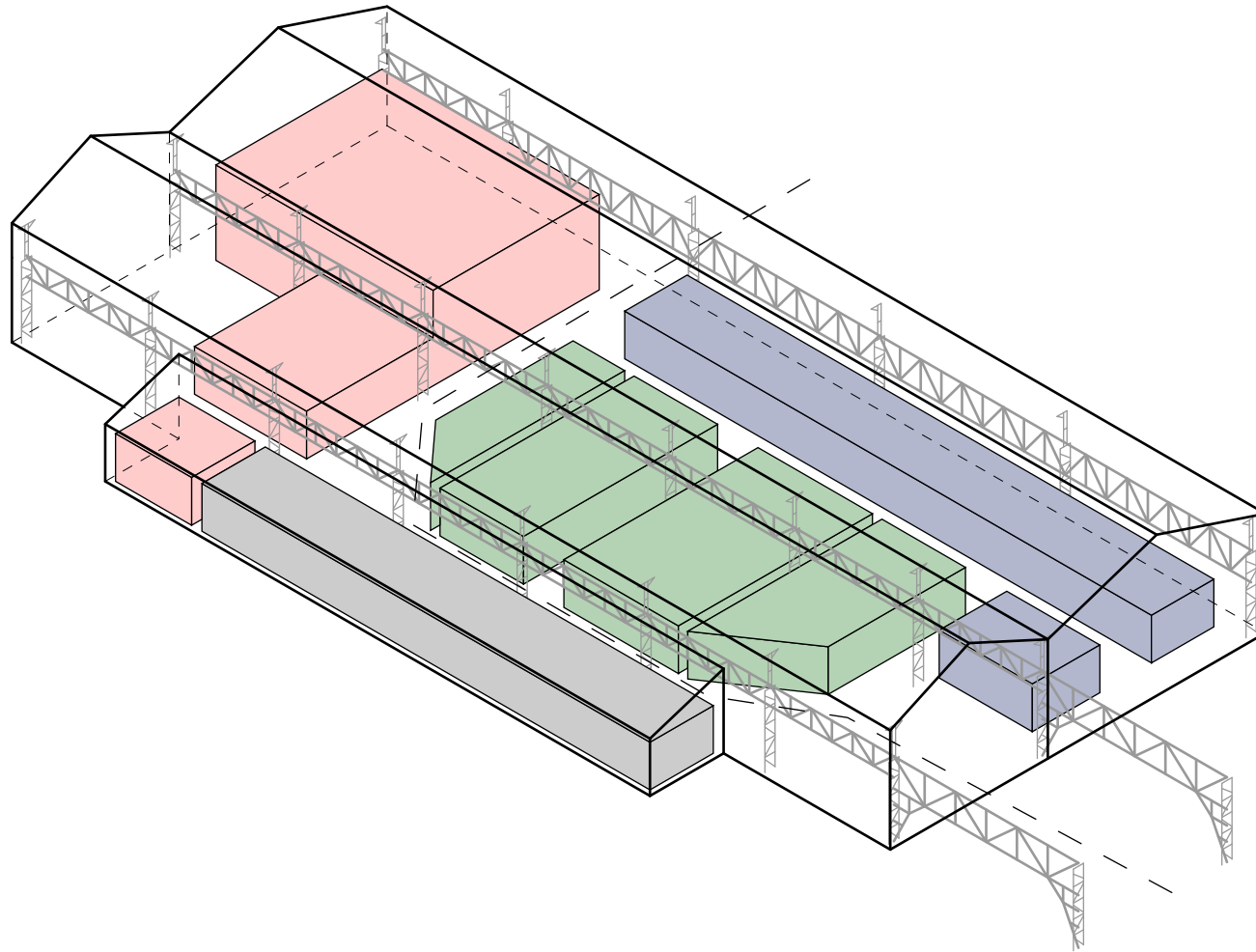
Machine hall

Connect the halls



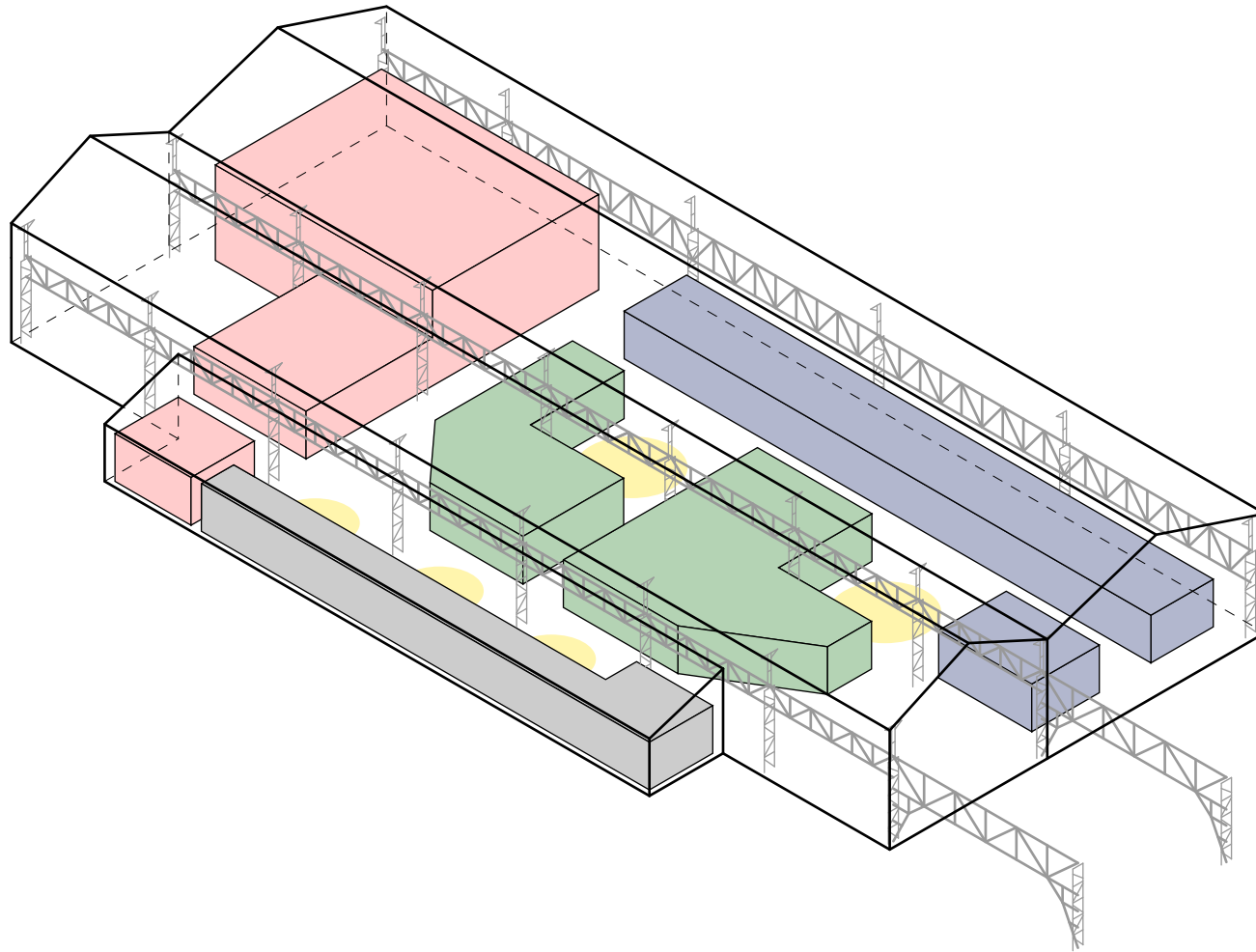
Machine hall

Routing



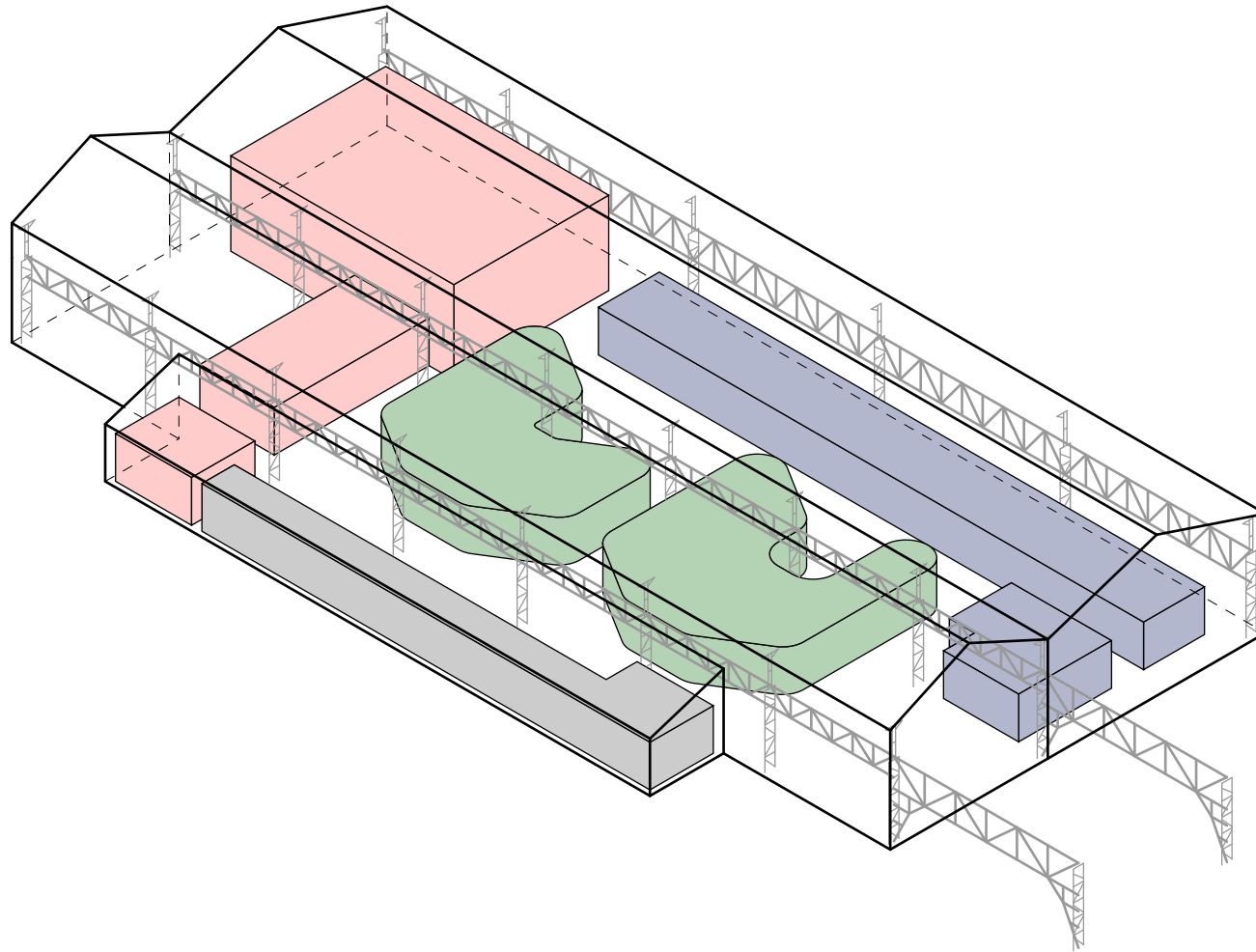
Machine hall

Meeting spaces



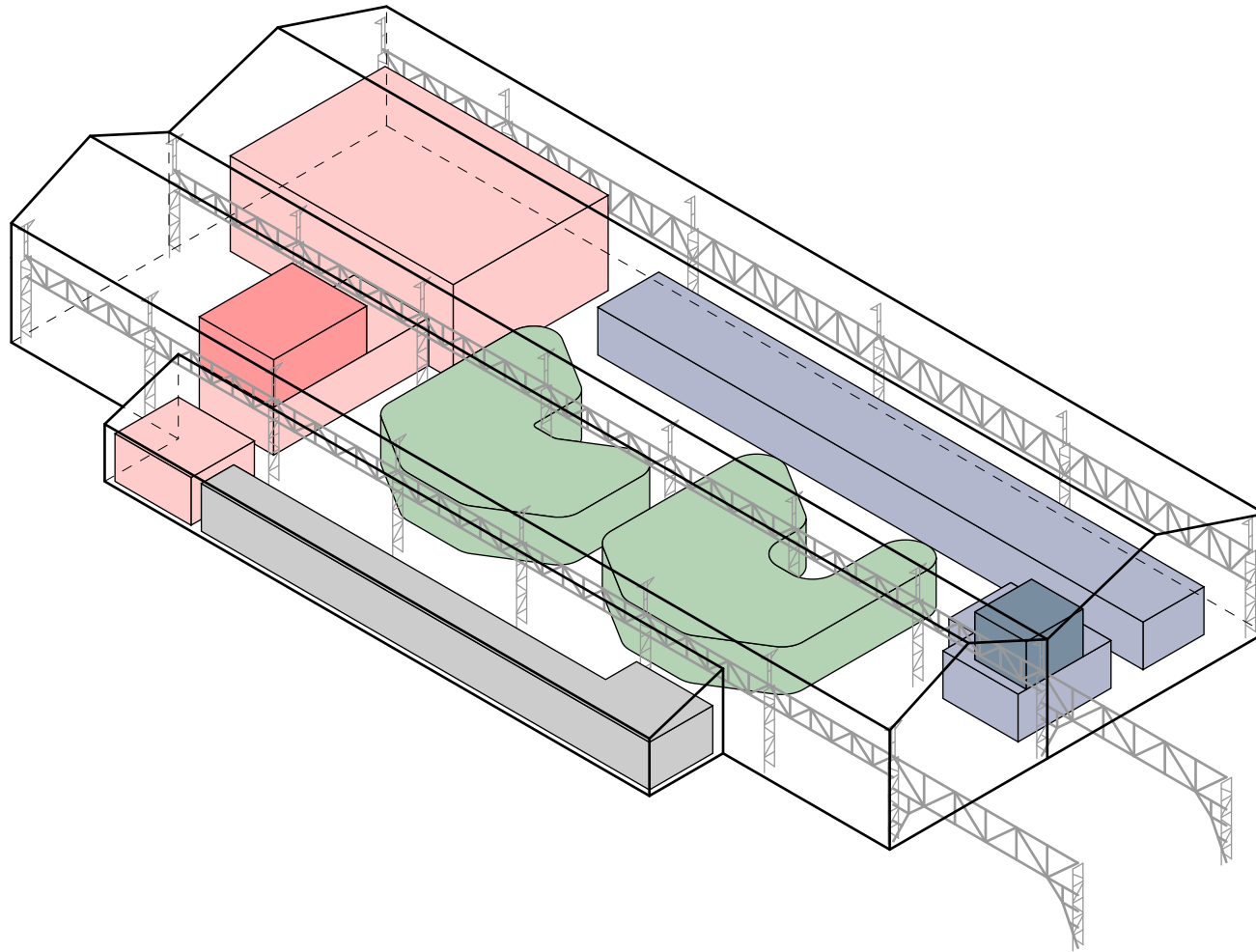
Machine hall

Practical execution



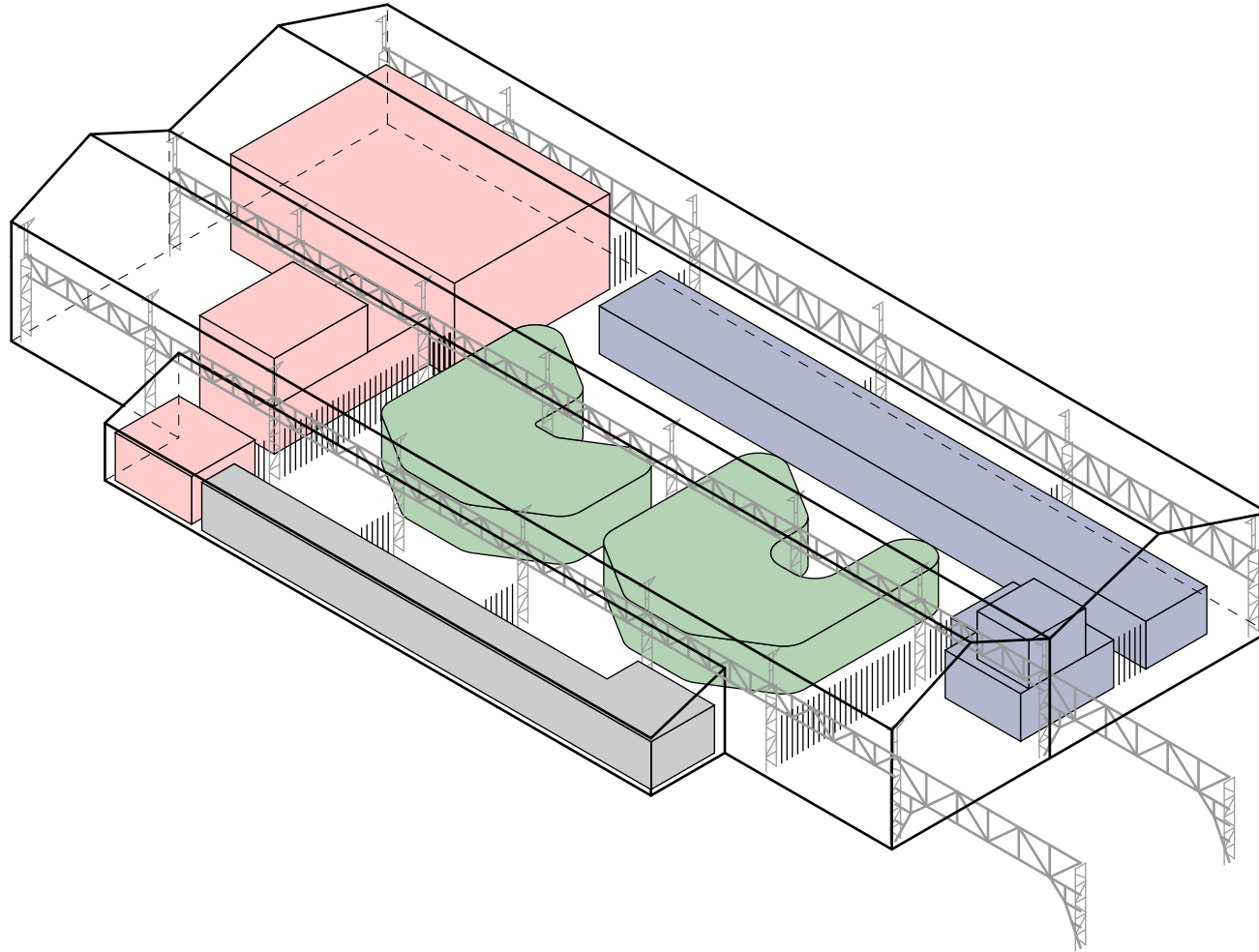
Machine hall

Installations



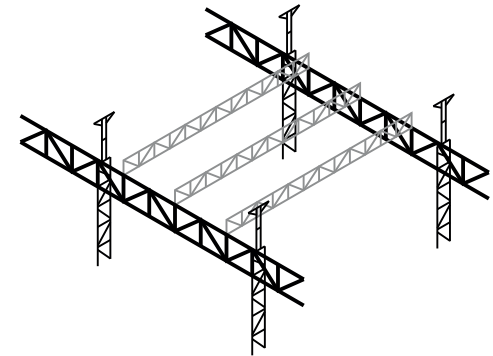
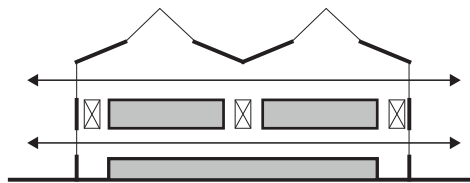
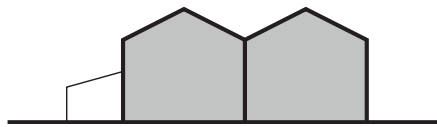
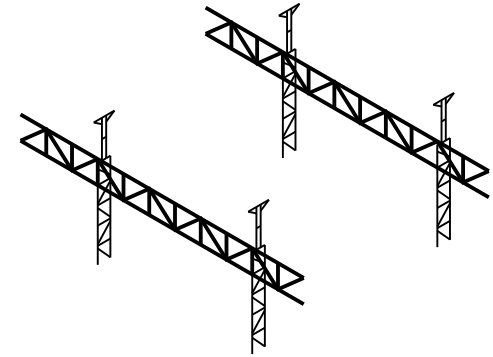
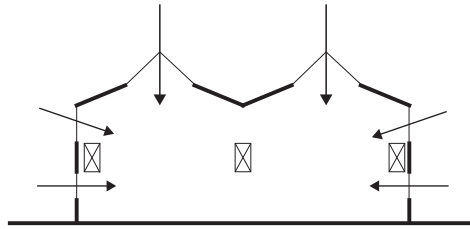
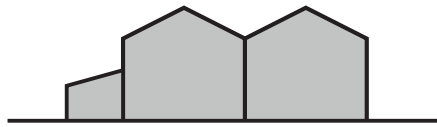
Machine hall

Space dividing



Machine hall

Symbiosis



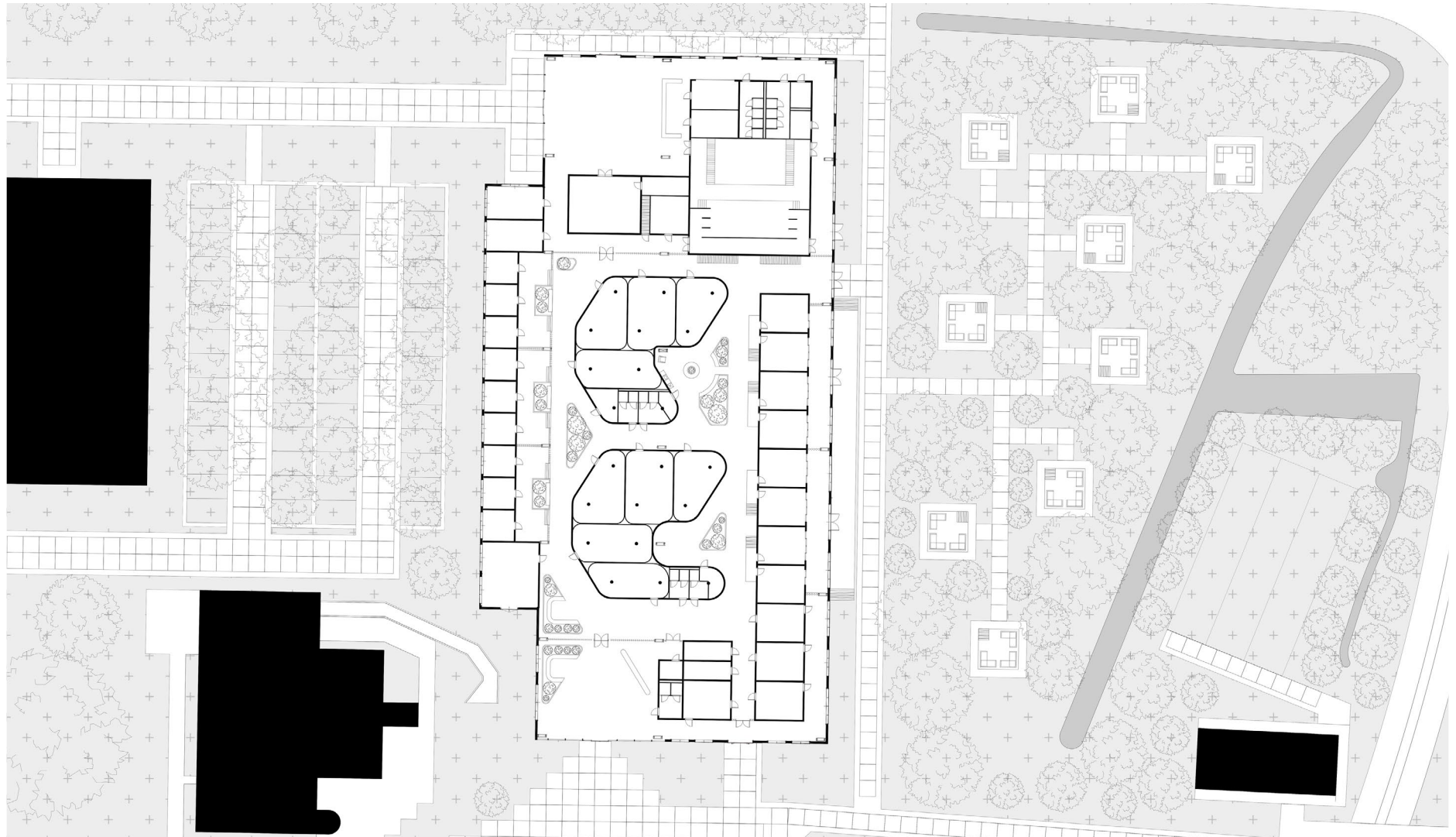
Typology

Facade and daylight

Construction

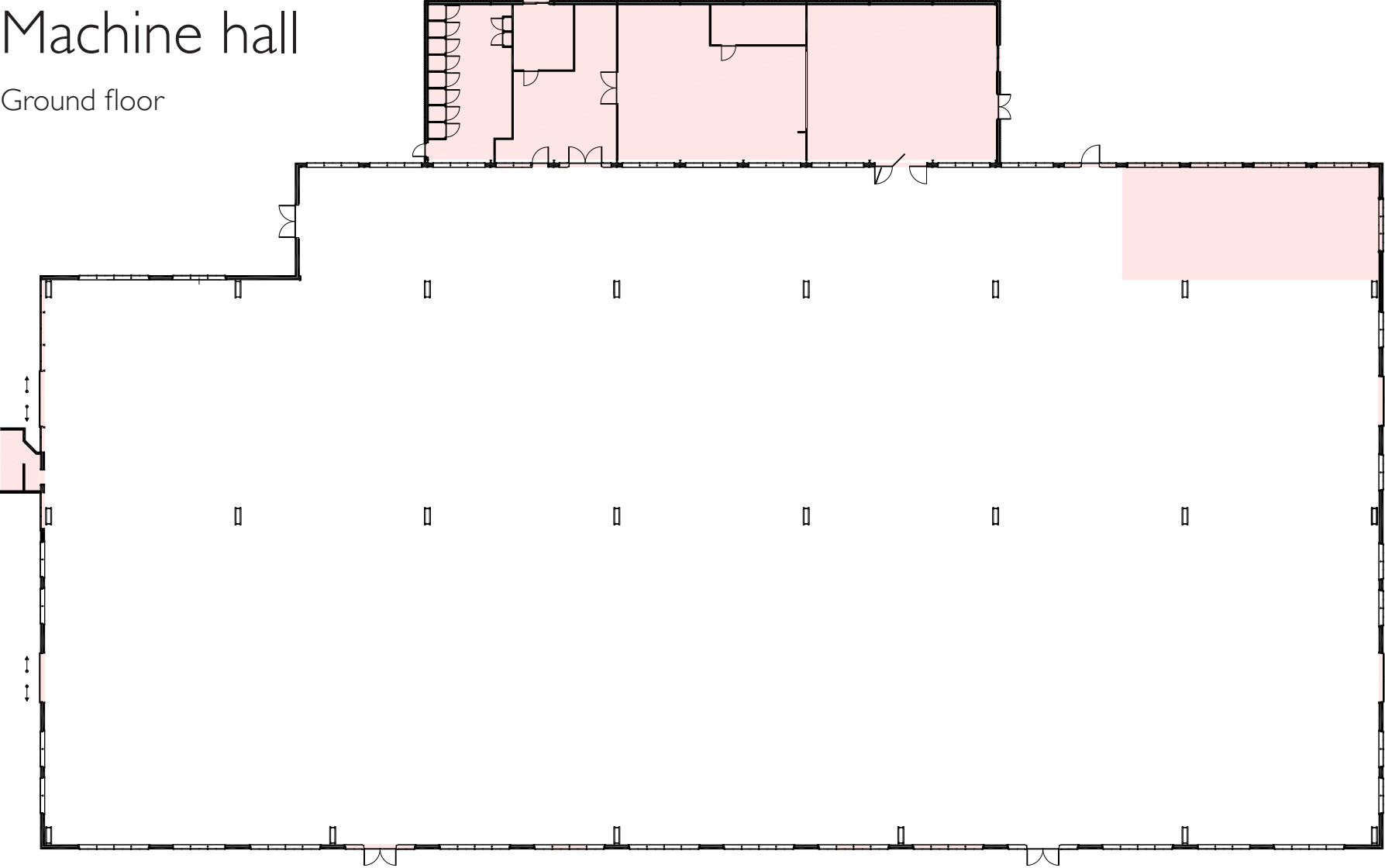
Machine hall

Site



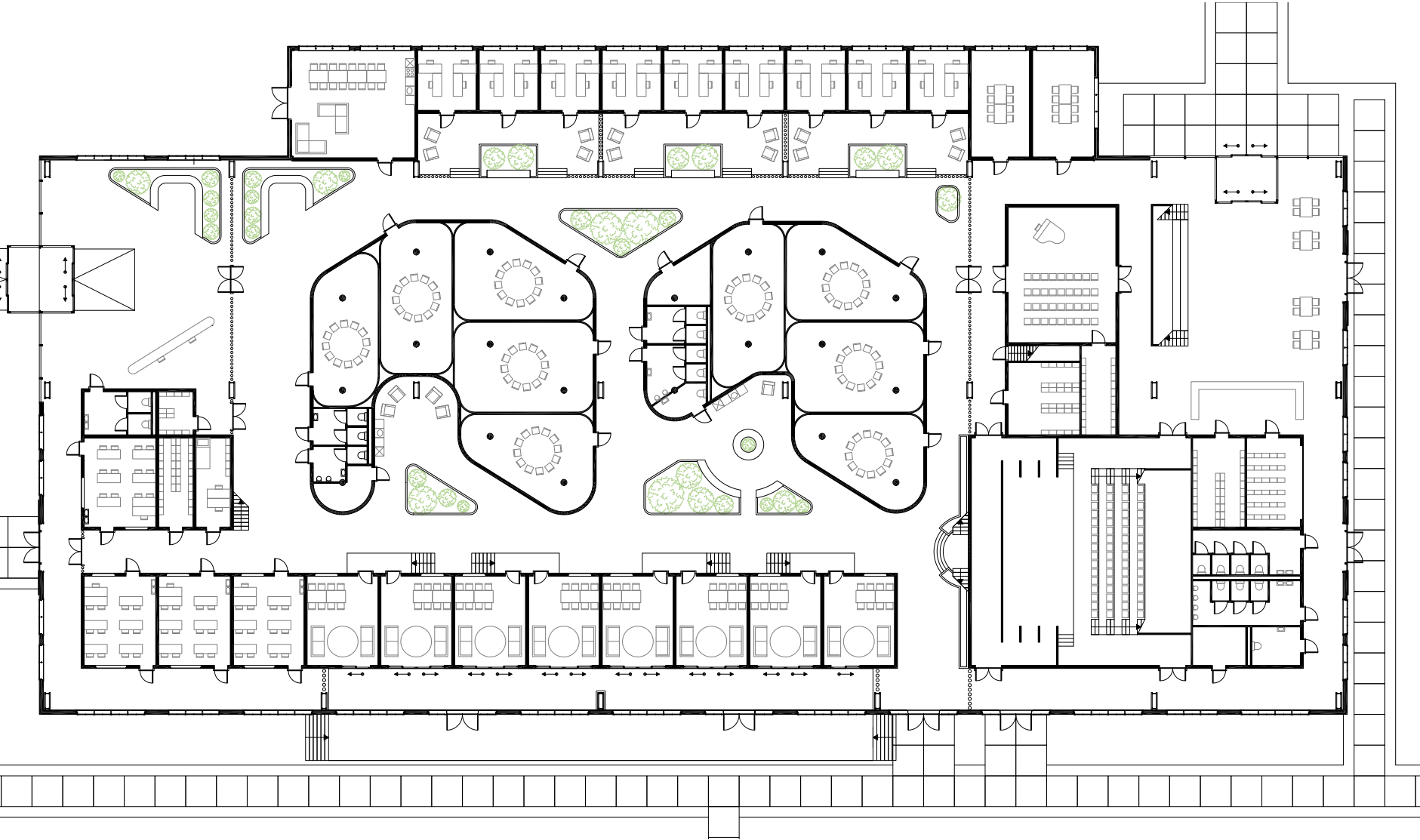
Machine hall

Ground floor



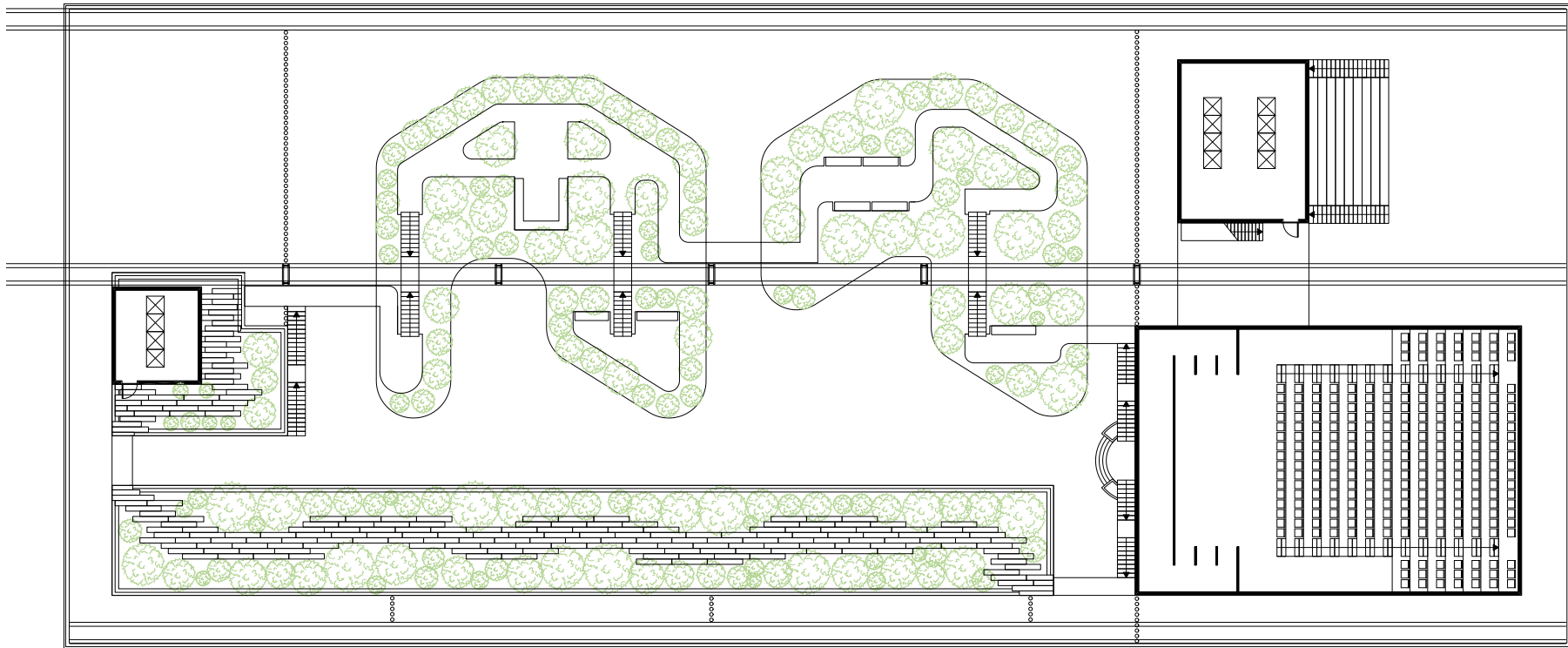
Machine hall

Ground floor



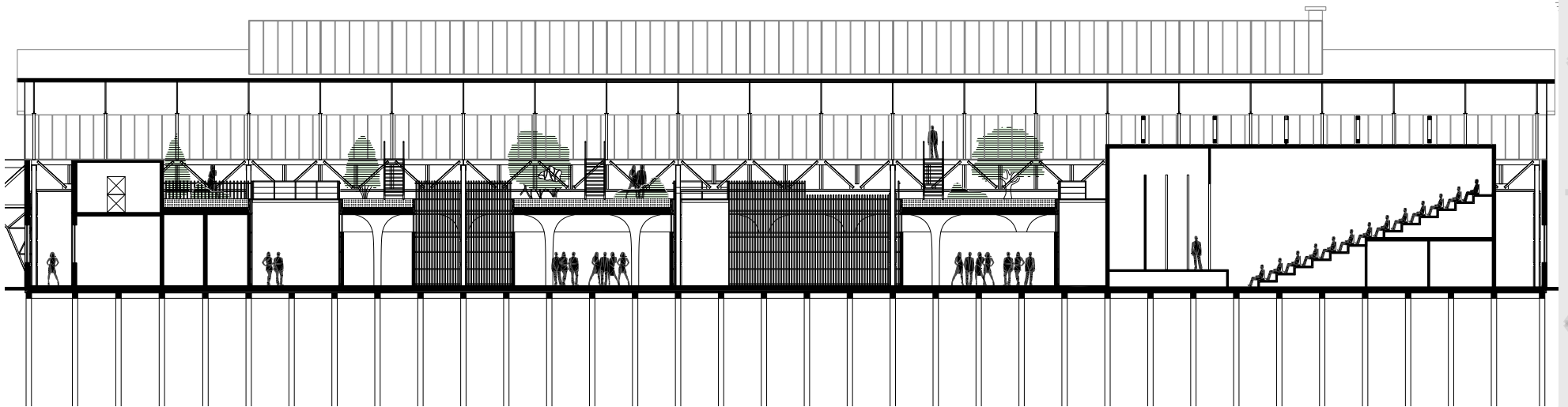
Machine hall

First floor



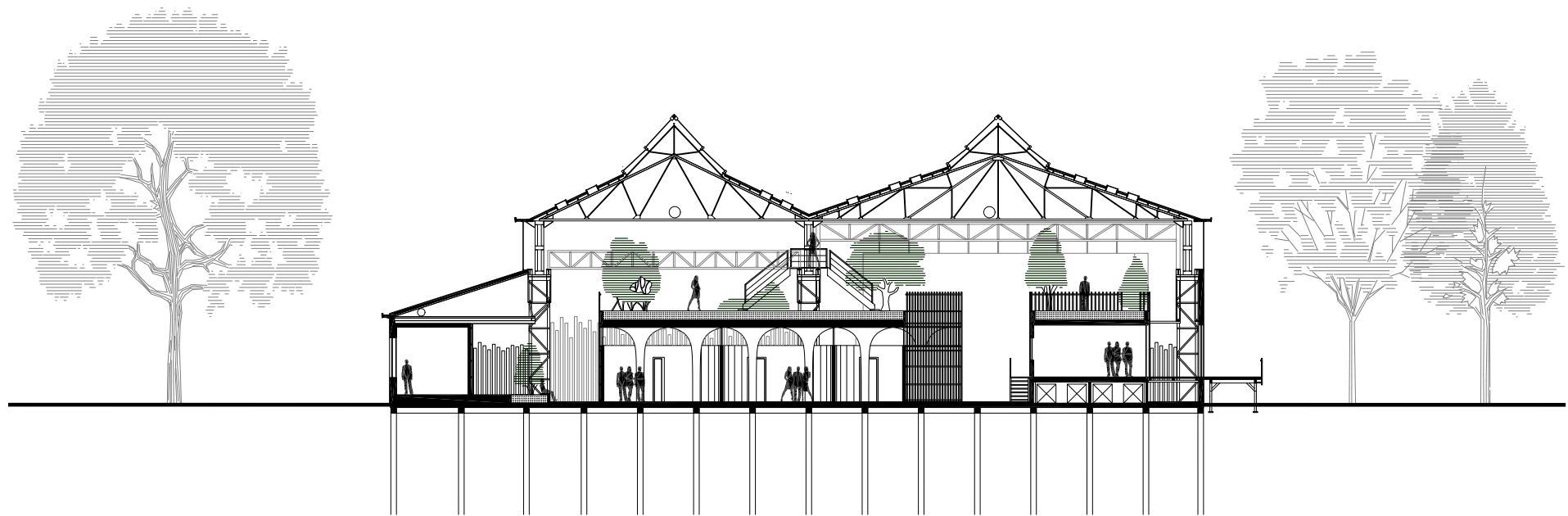
Machine hall

Section North-South



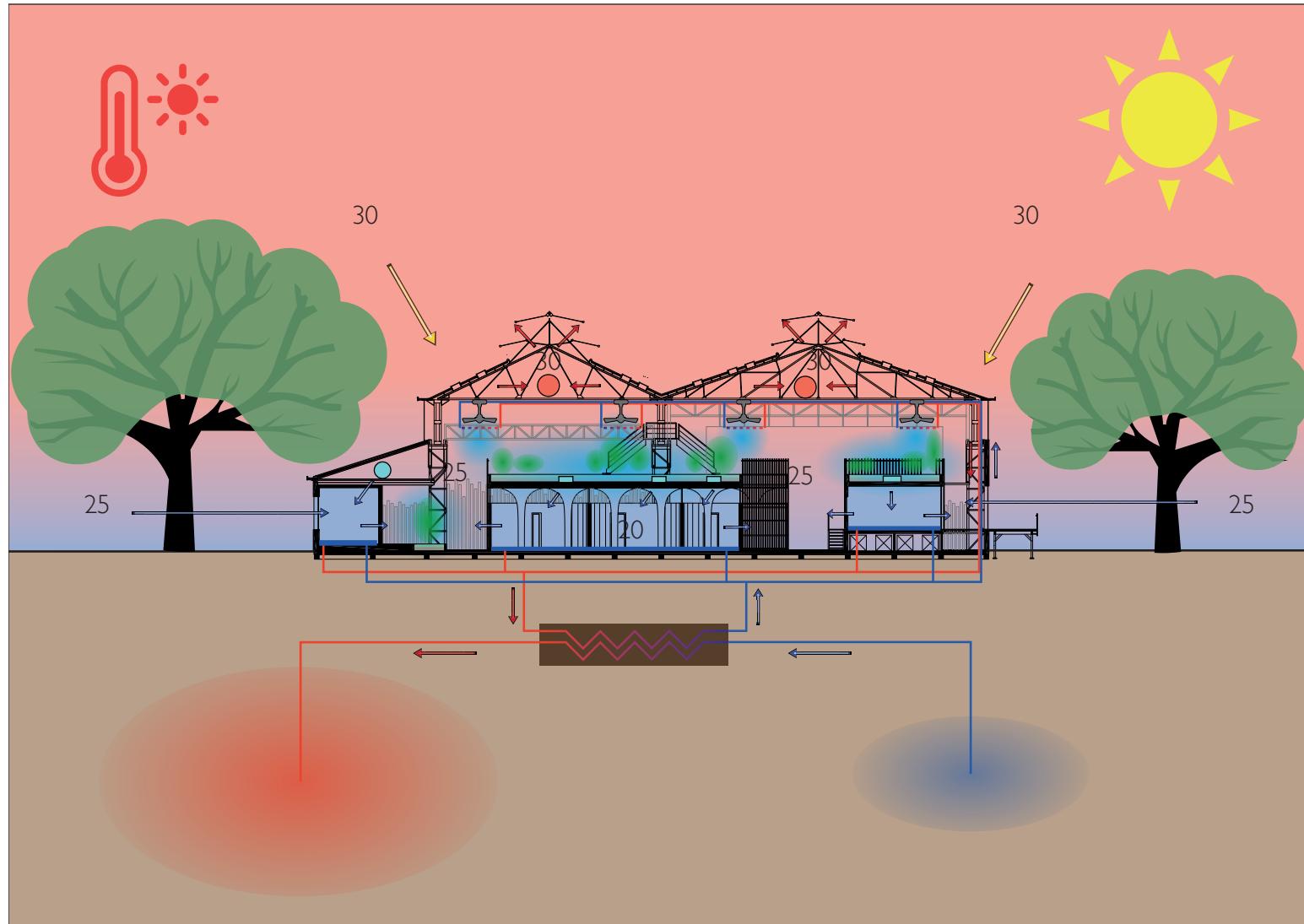
Machine hall

Section East-West



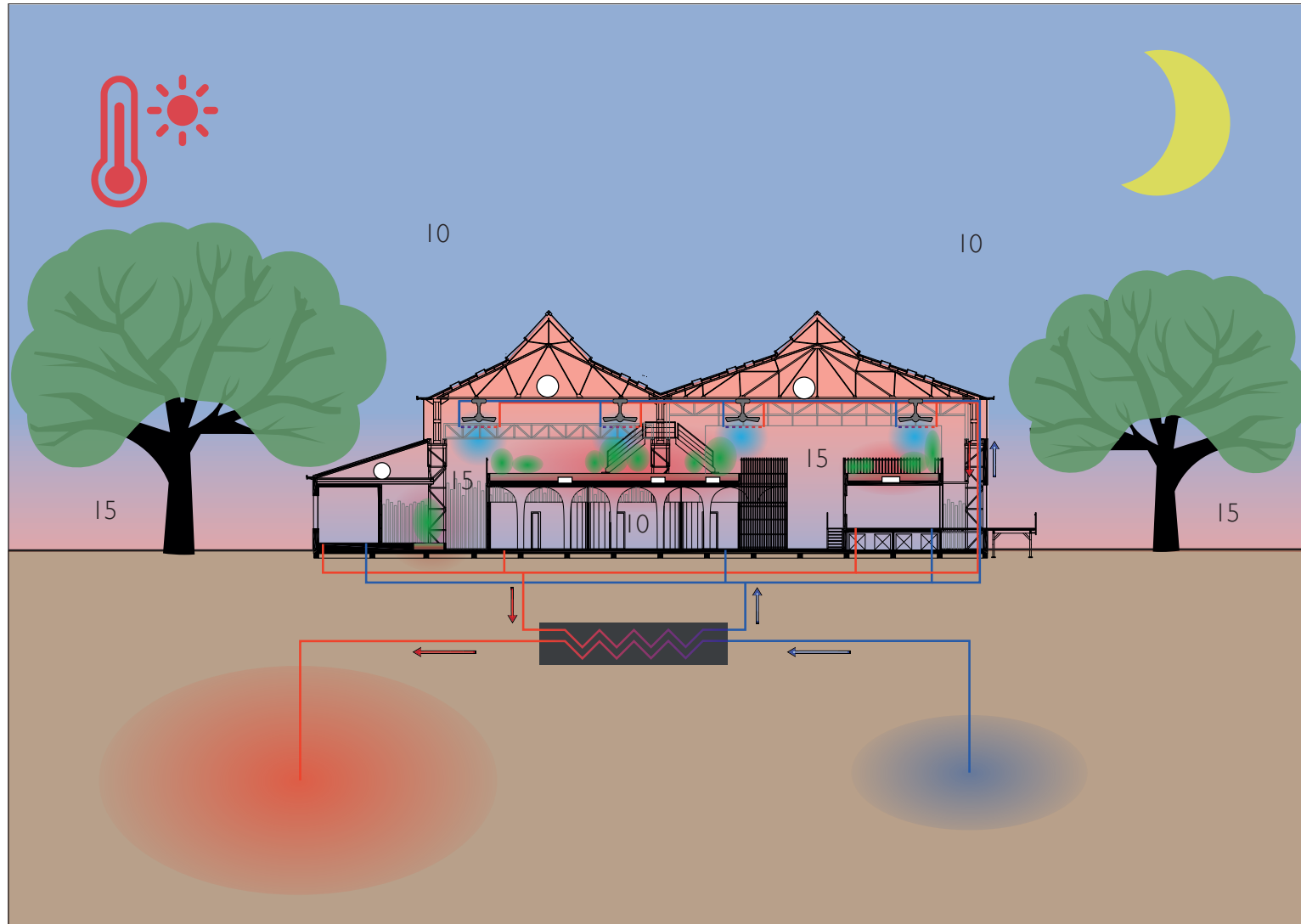
Machine hall

Climate summer day



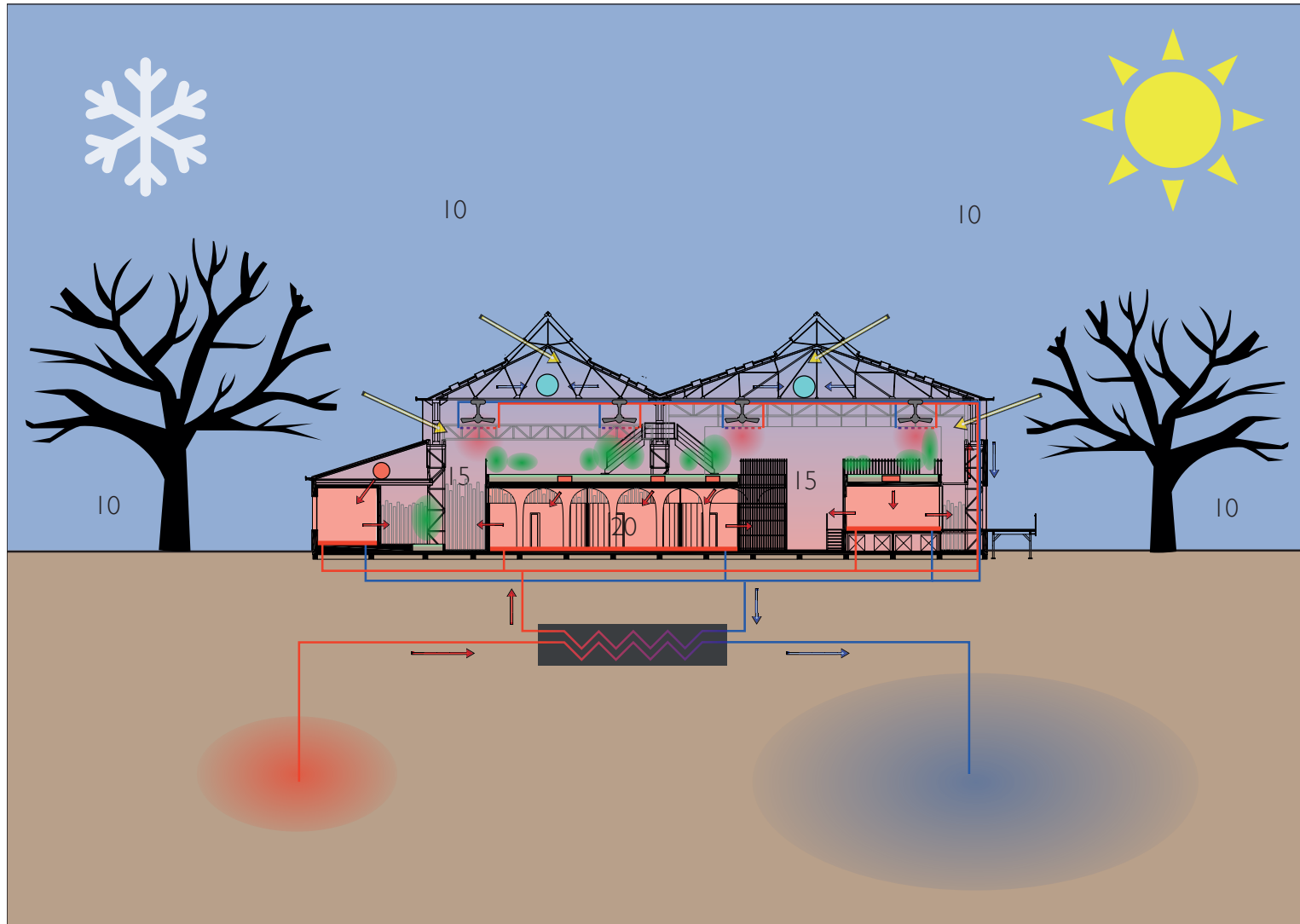
Machine hall

Climate summer day



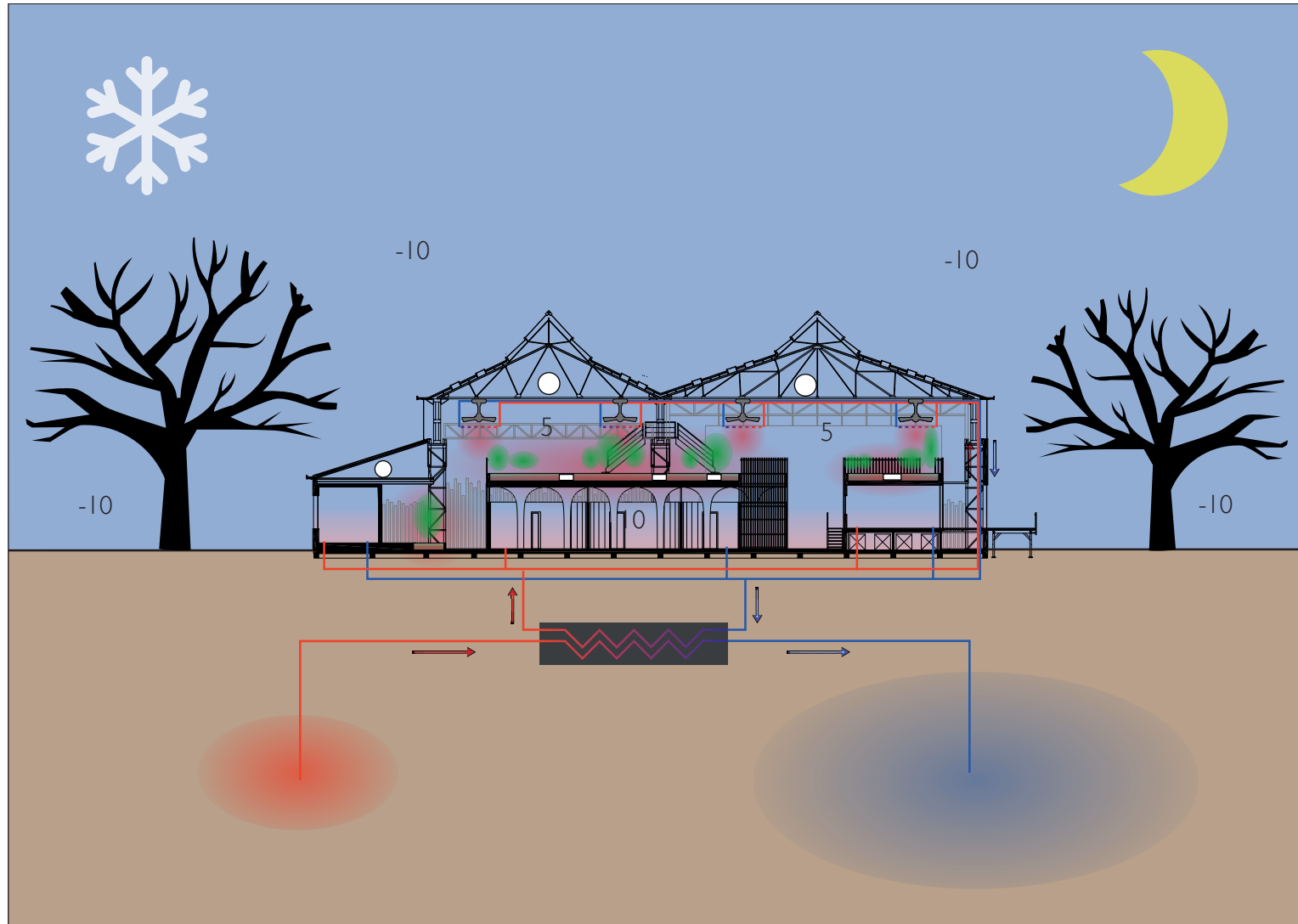
Machine hall

Climate summer day



Machine hall

Climate summer day



Machine hall

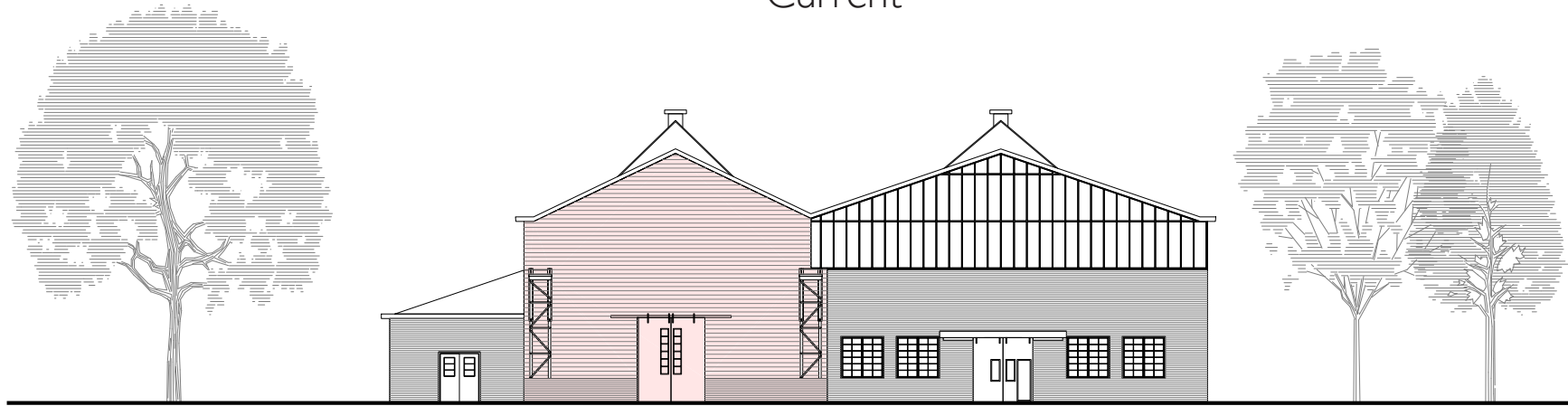
Entrance mental health centre



Machine hall

South elevation

Current

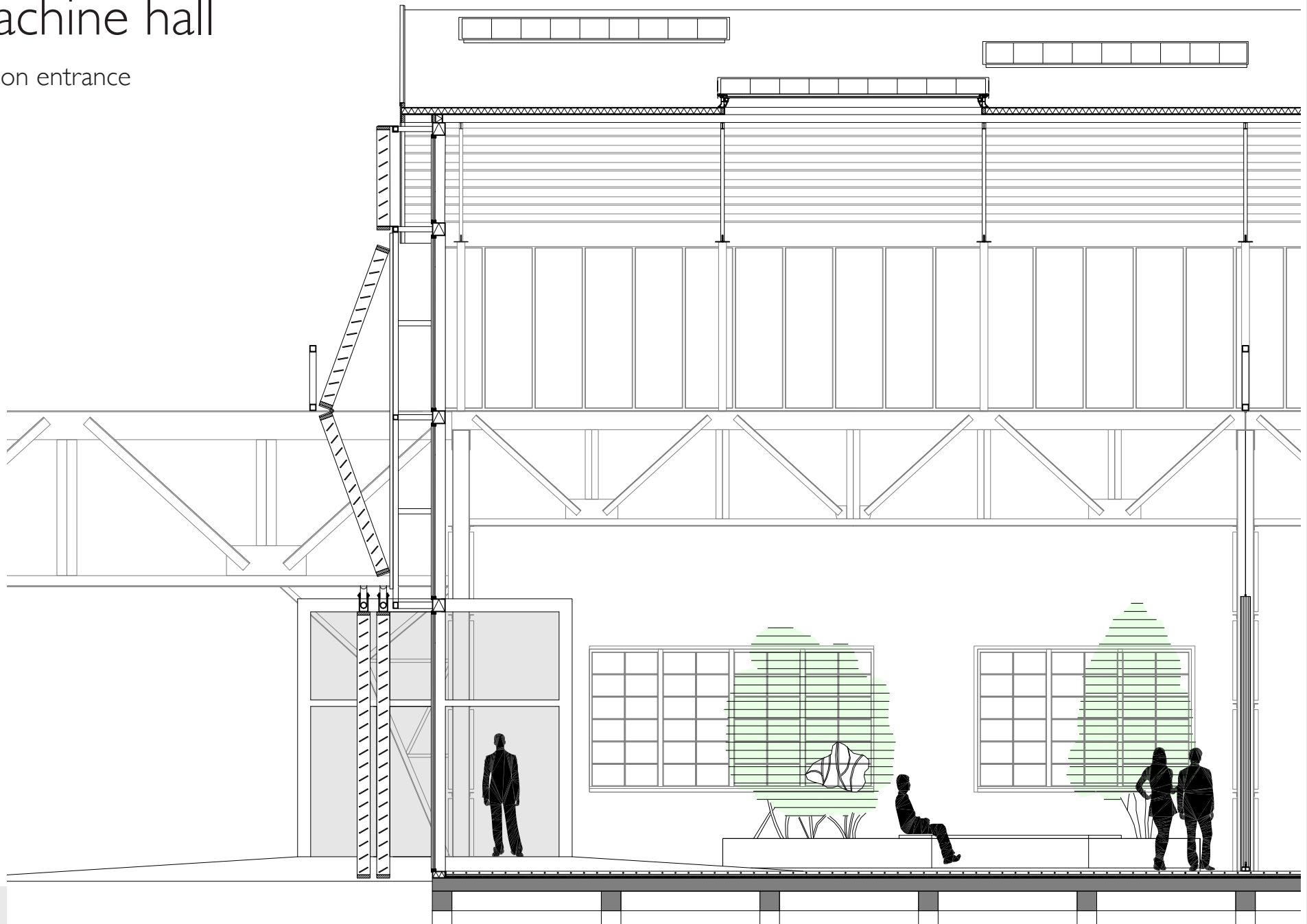


New



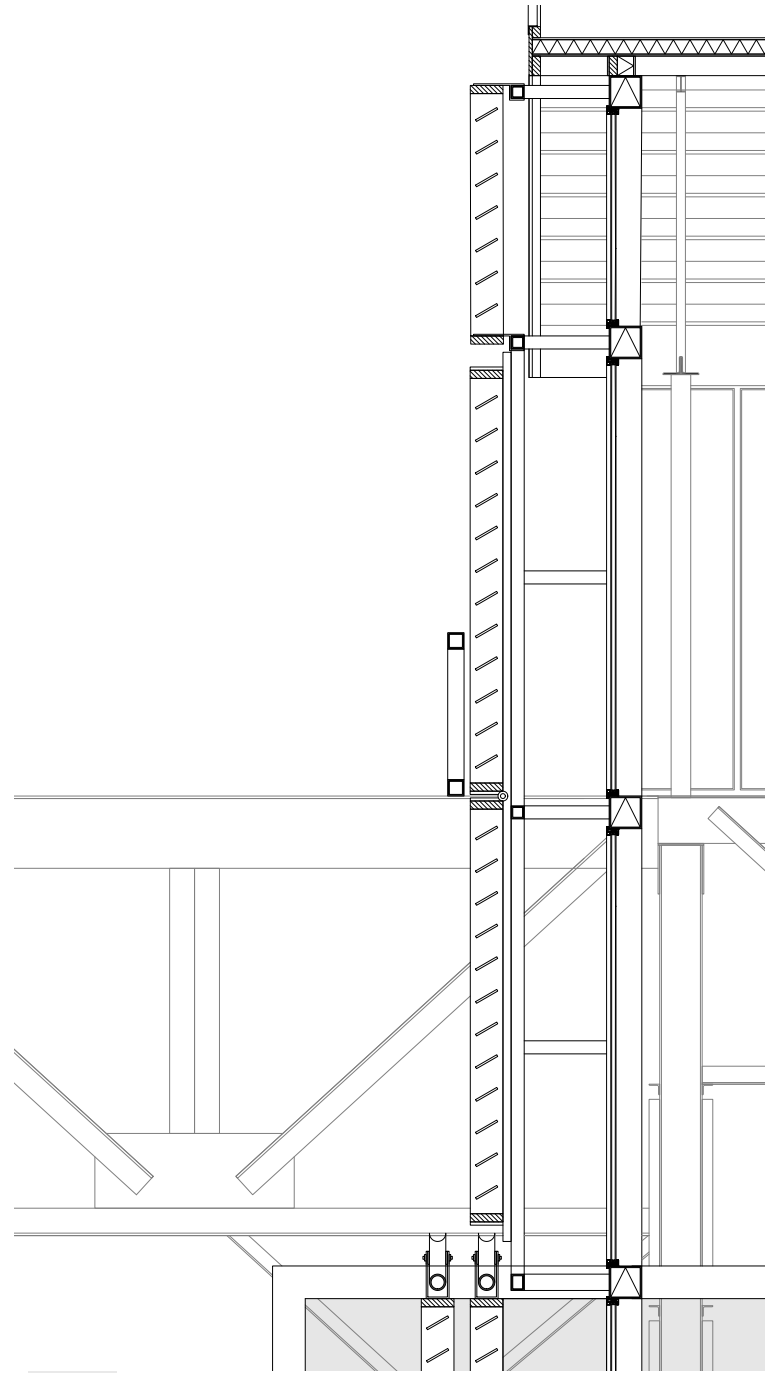
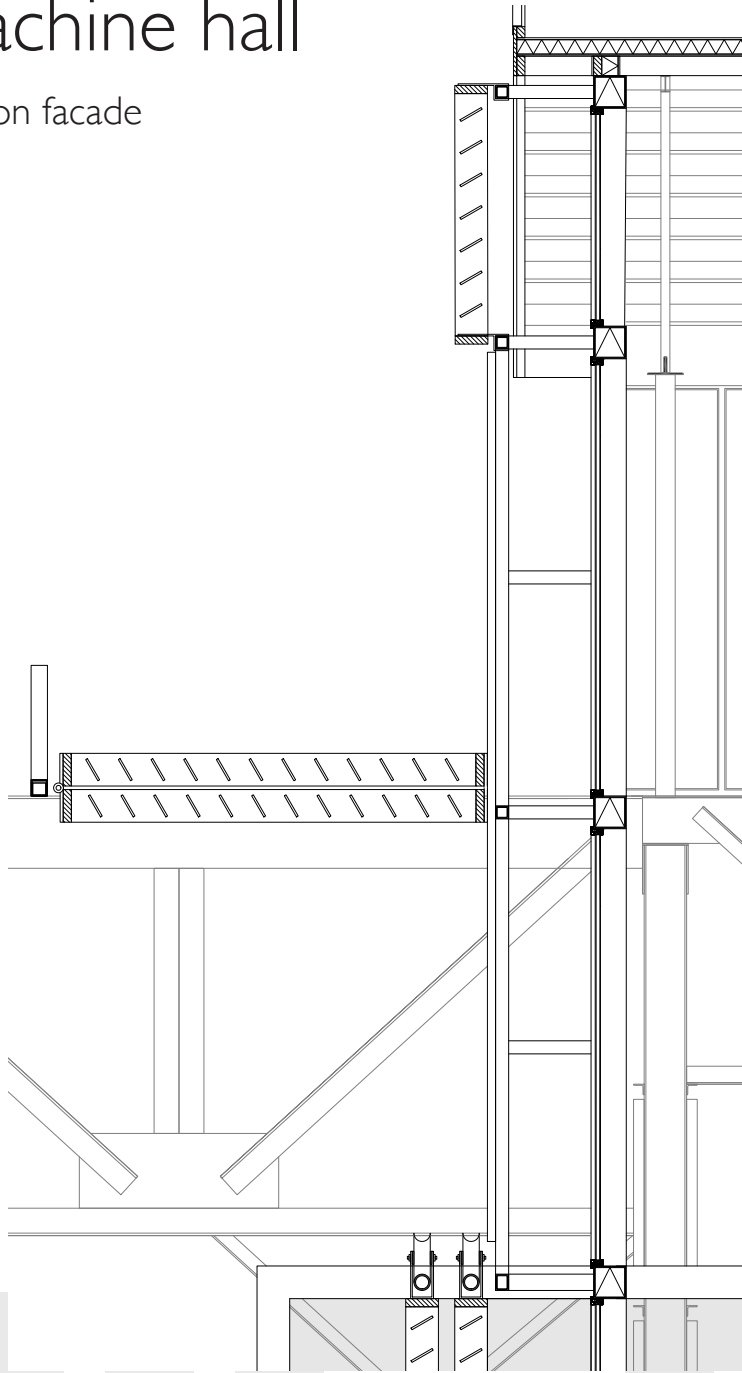
Machine hall

Section entrance



Machine hall

Section facade



Machine hall

Entrance mental health centre



Machine hall

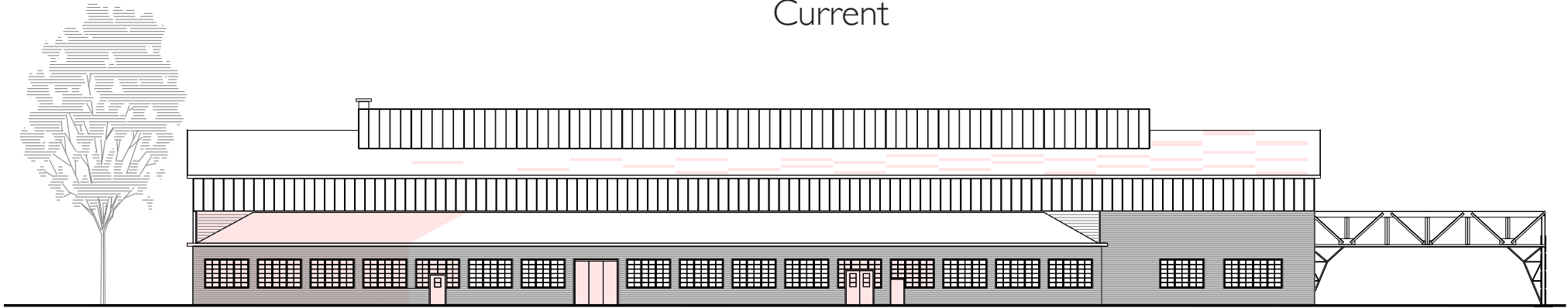
Entrance mental health centre



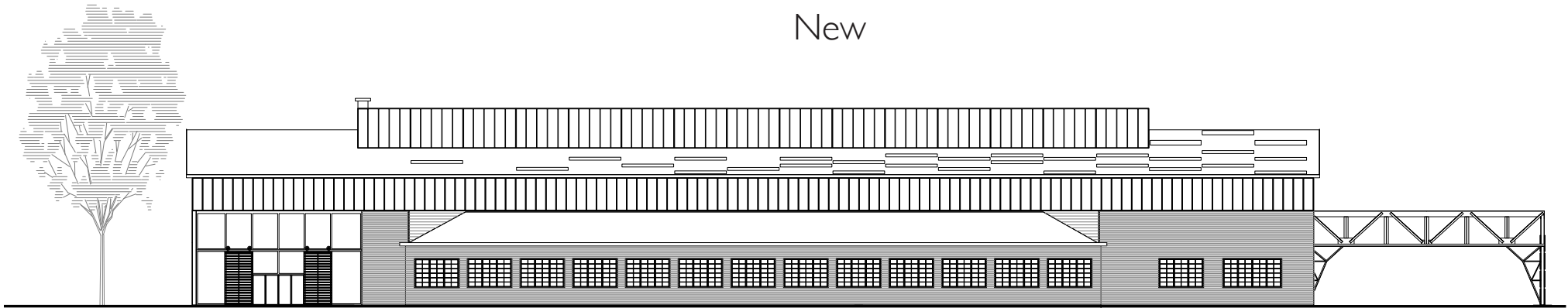
Machine hall

West elevation

Current



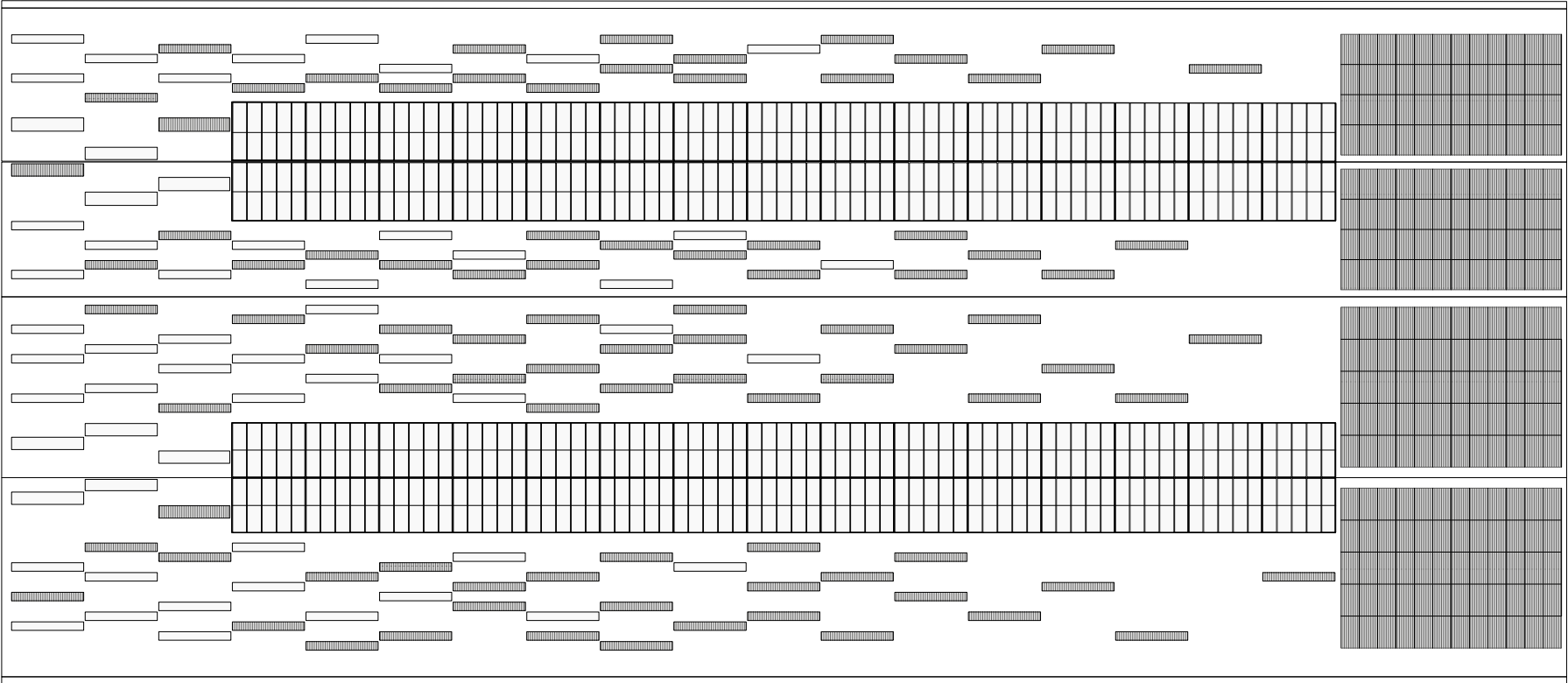
New





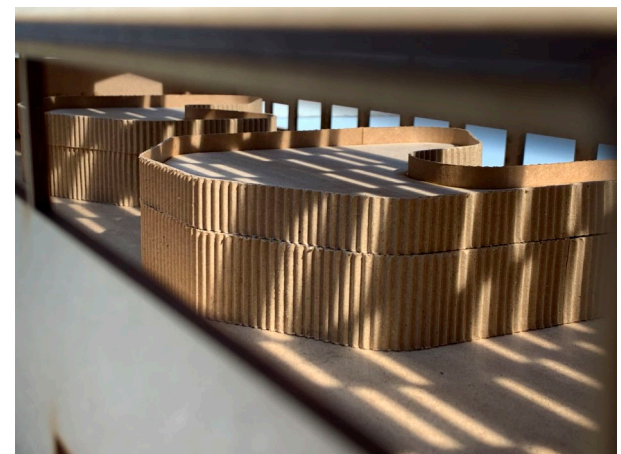
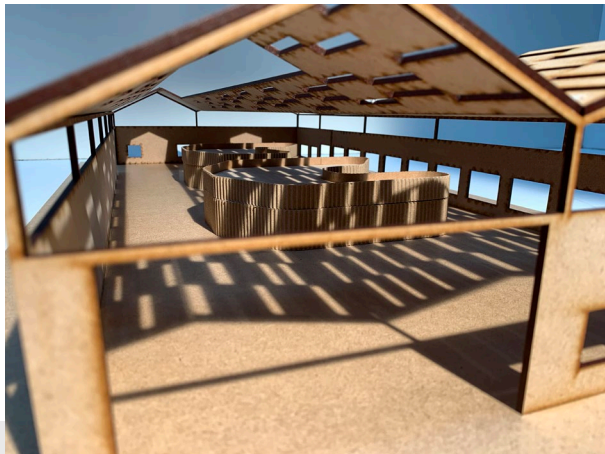
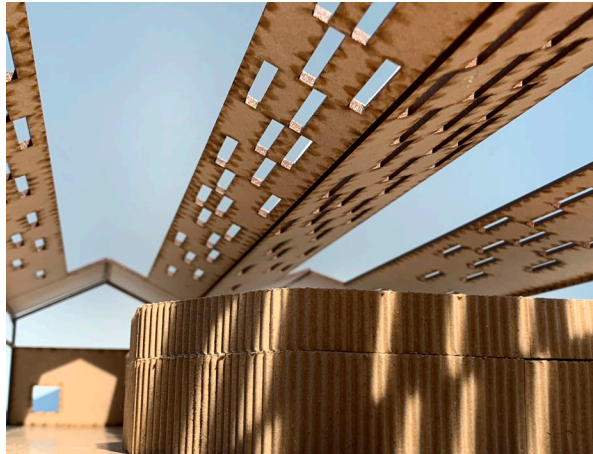
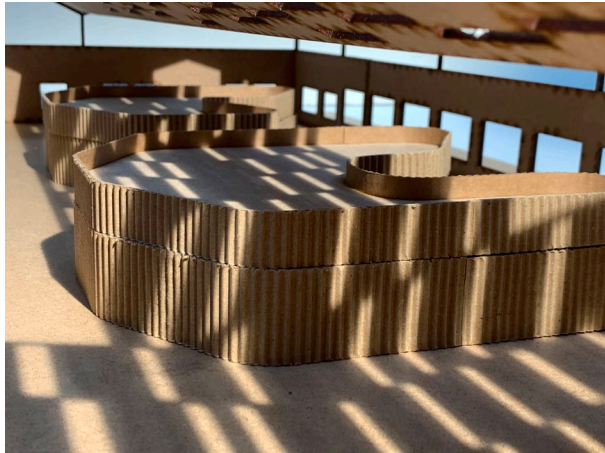
Machine hall

Roof



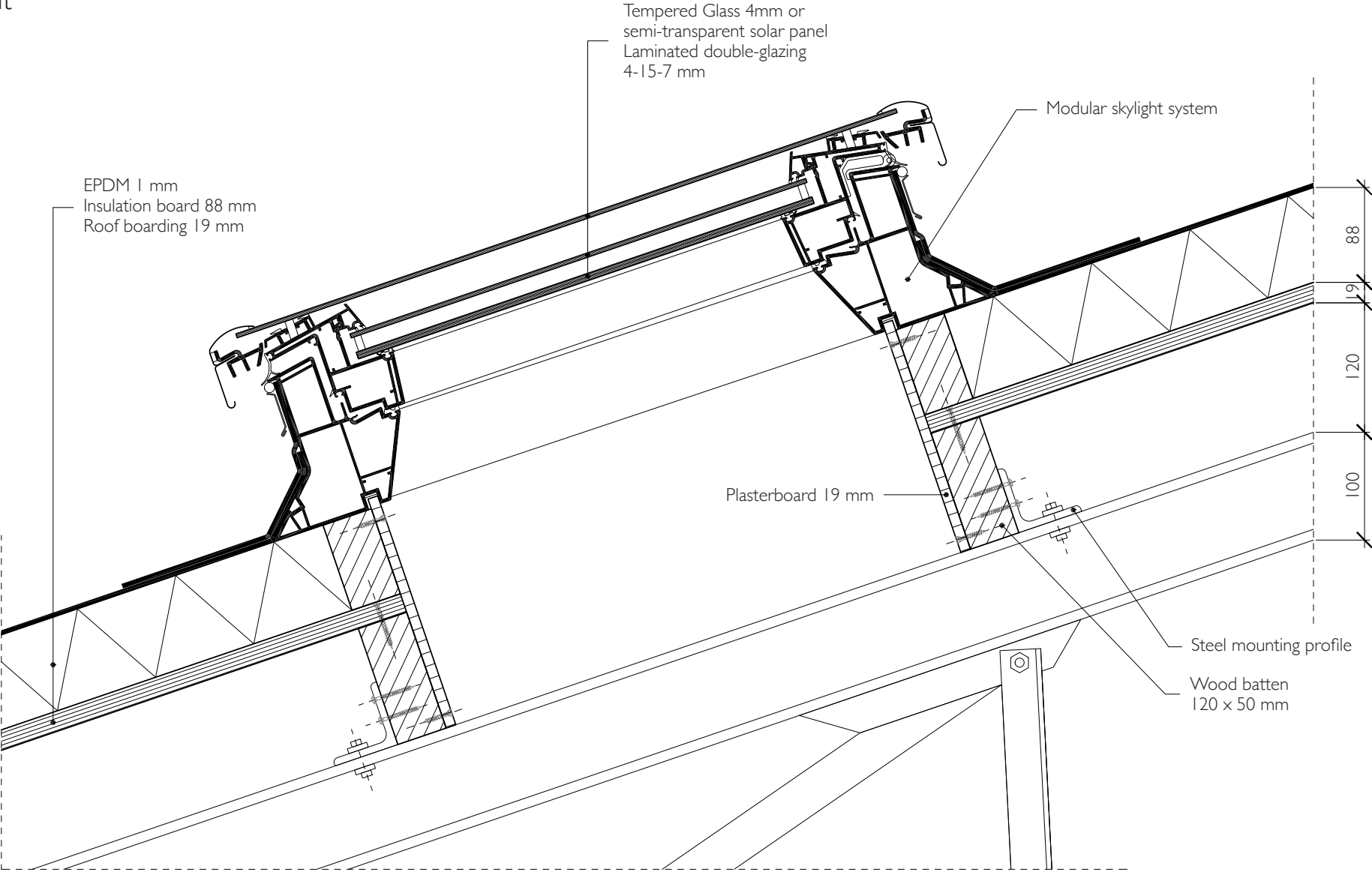
Machine hall

Skylights



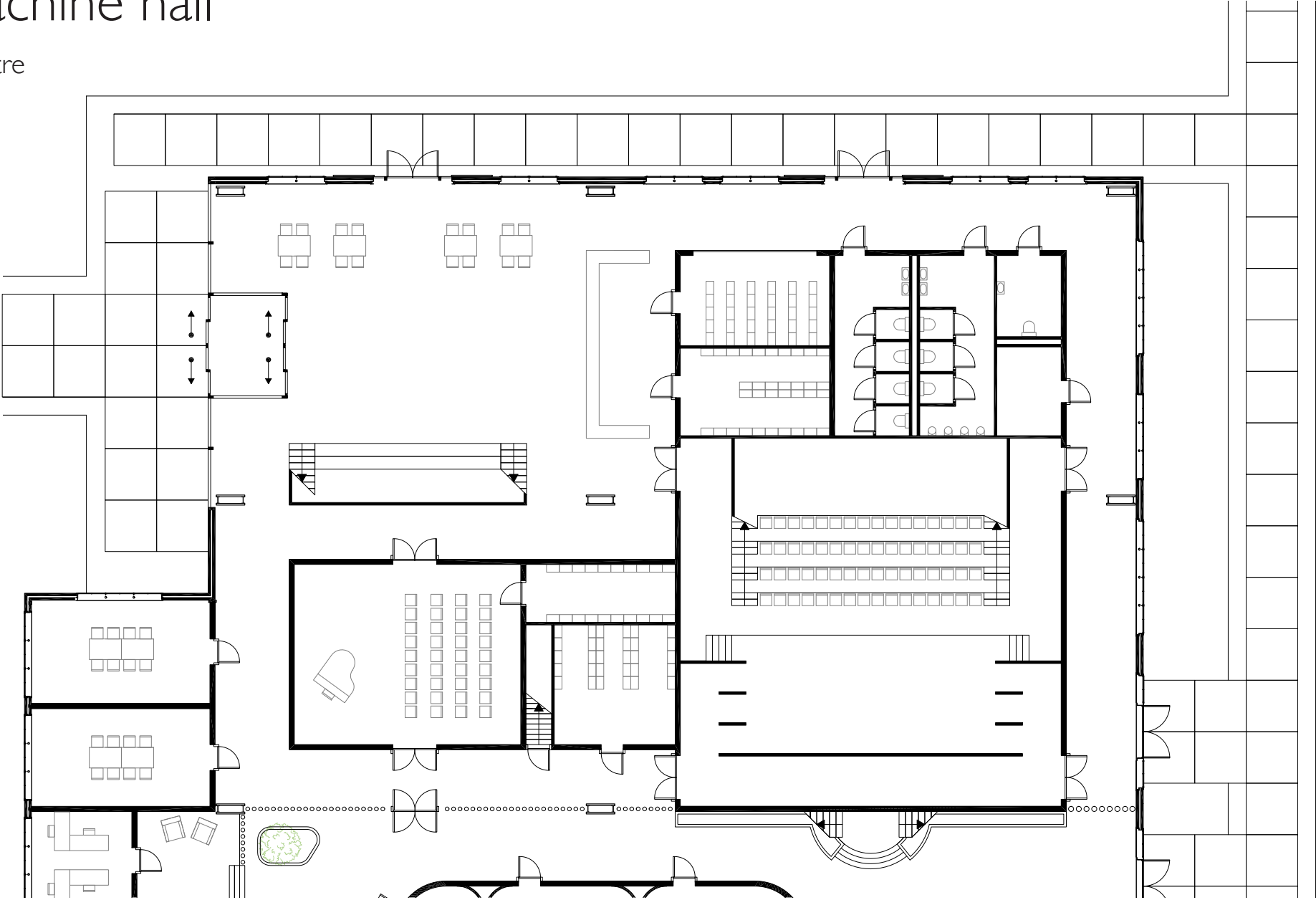
Machine hall

Skylight



Machine hall

Theatre



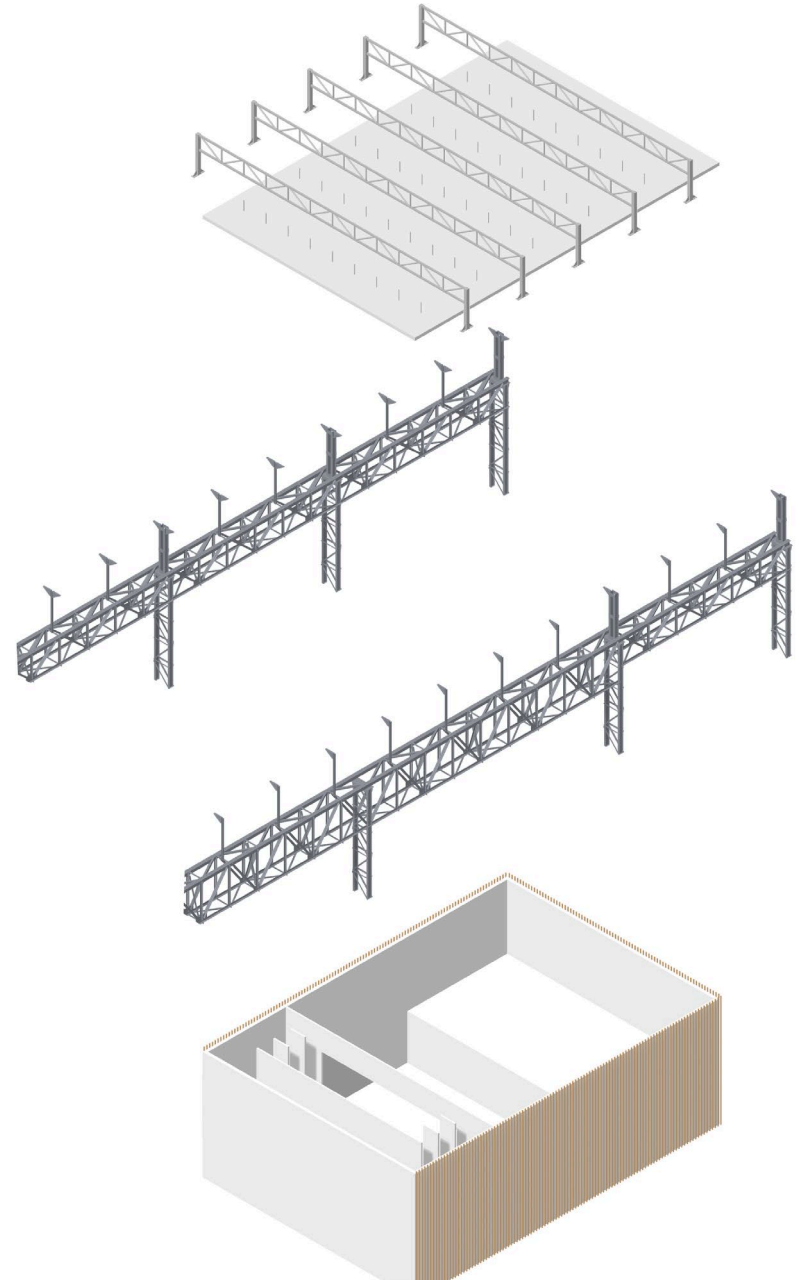
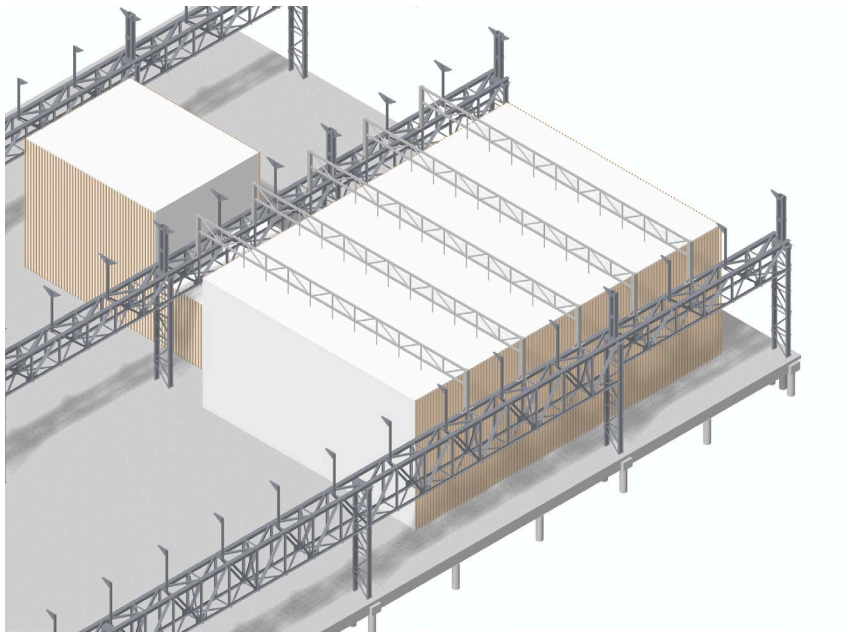
Machine hall

Theatre



Machine hall

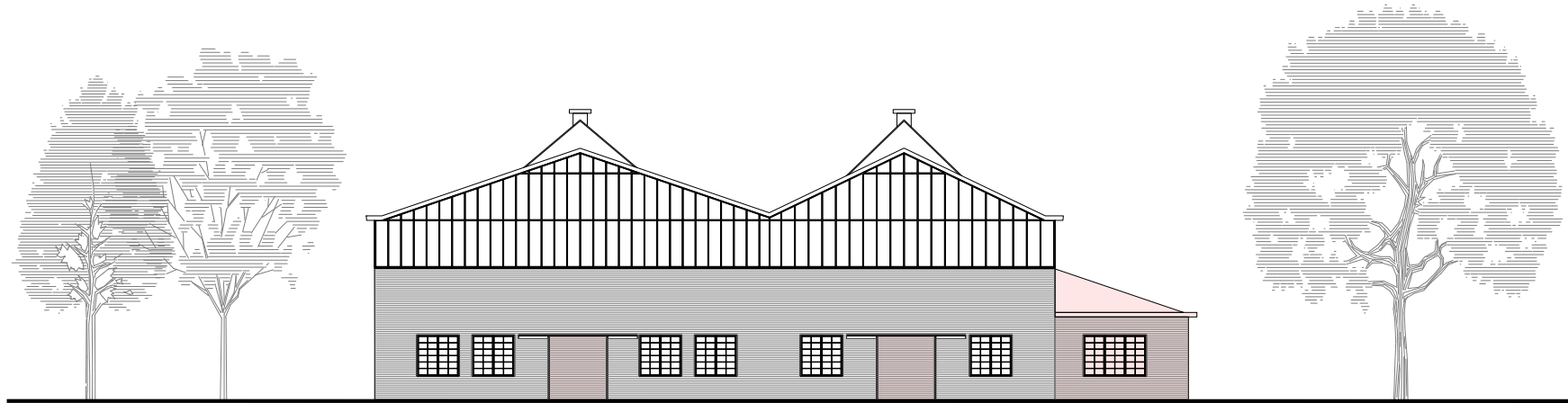
Construction



Machine hall

North elevation

Current



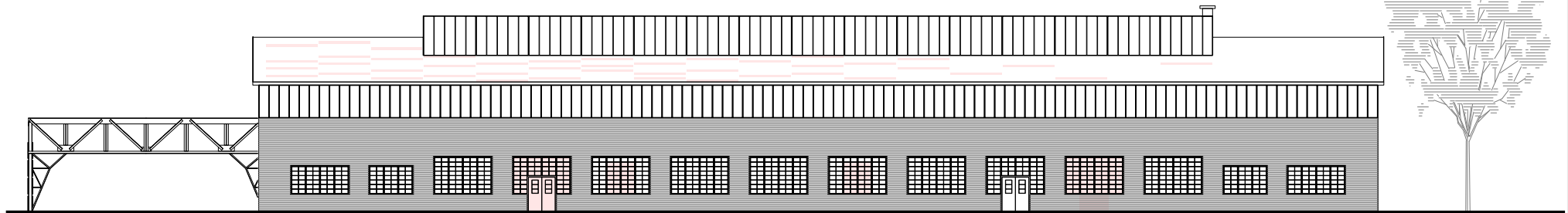
New



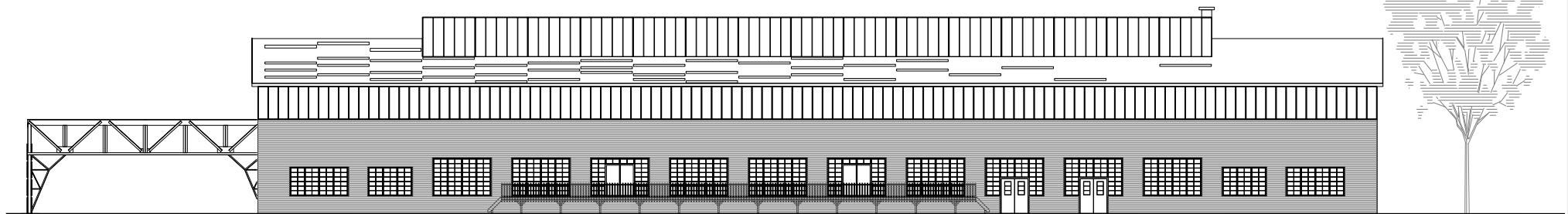
Machine hall

East elevation

Current



New



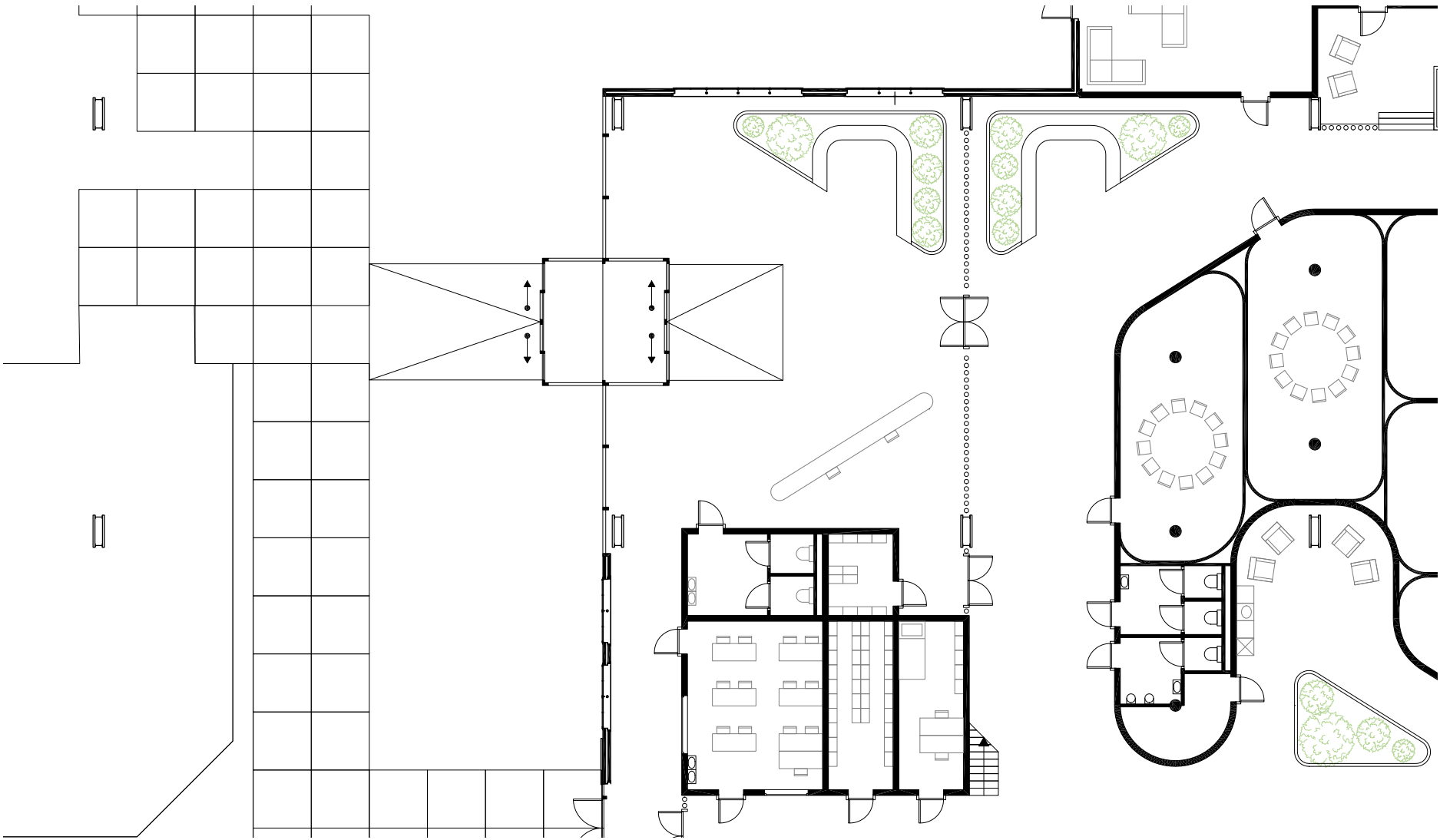
Machine hall

Pavilions



Machine hall

Entrance

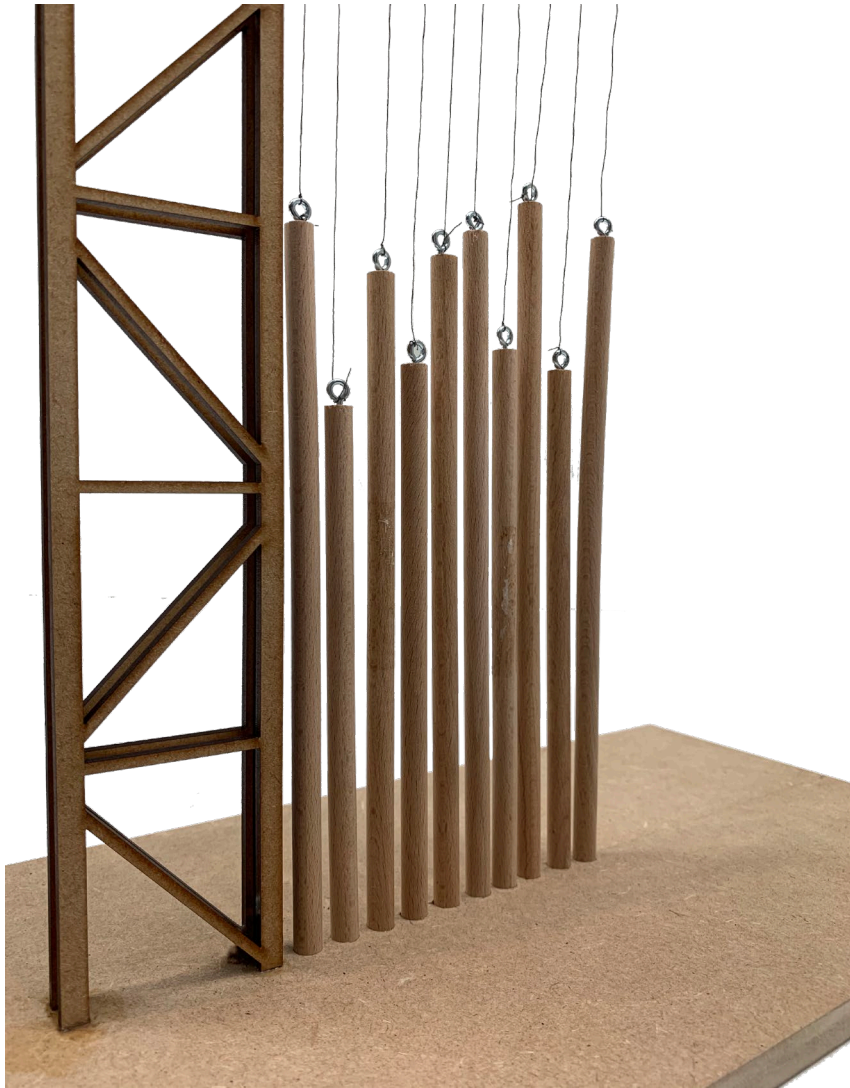




Machine hall
Entrance

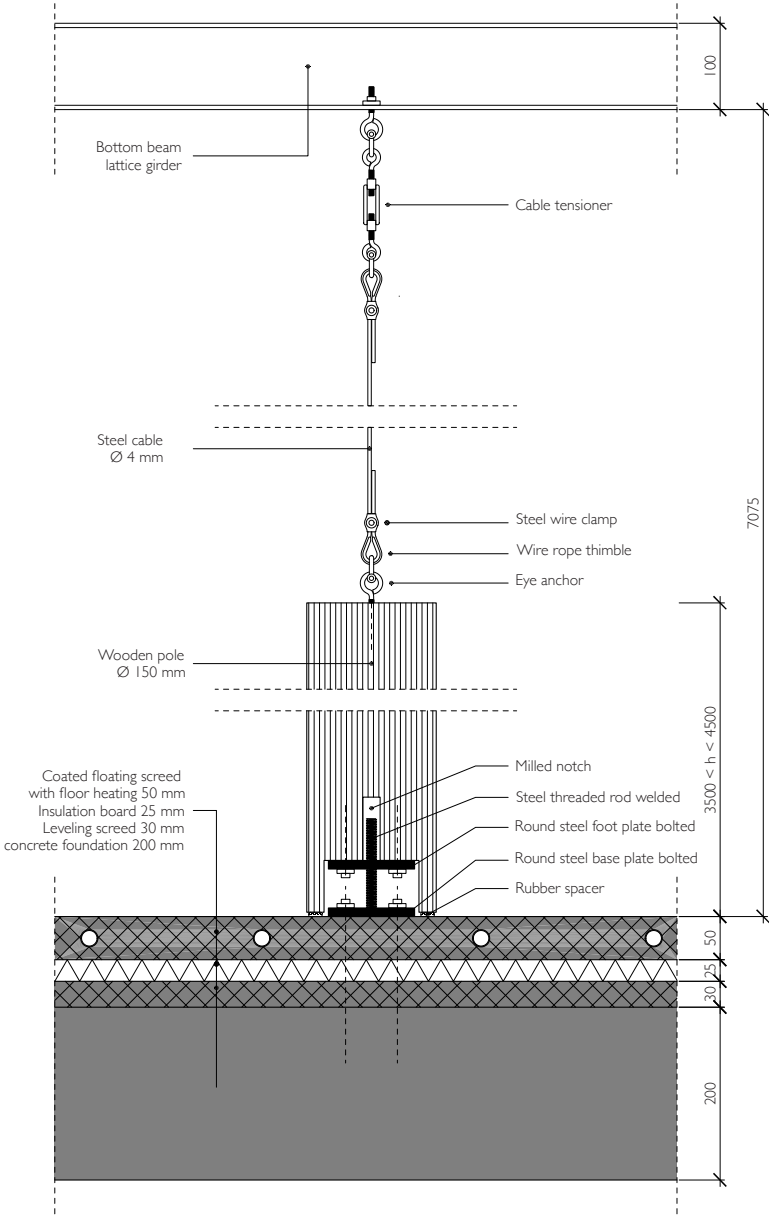
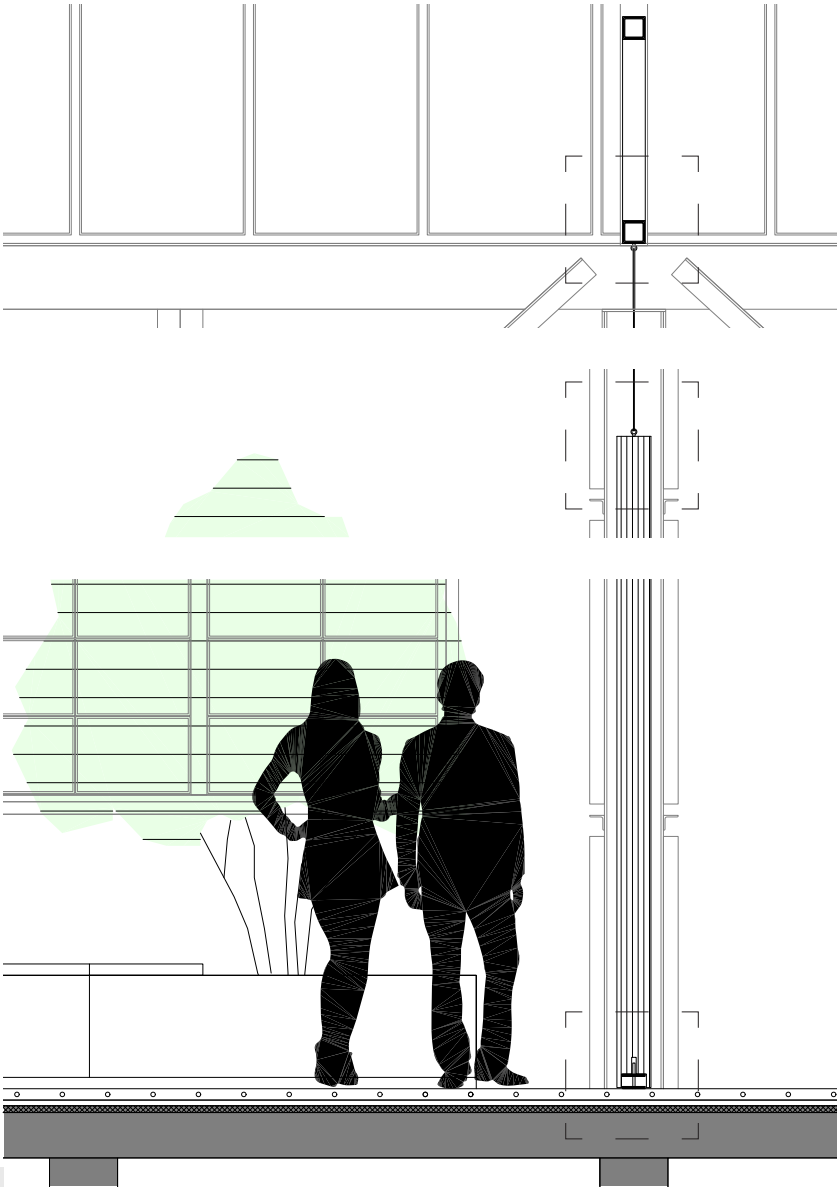
Machine hall

Room dividing piles



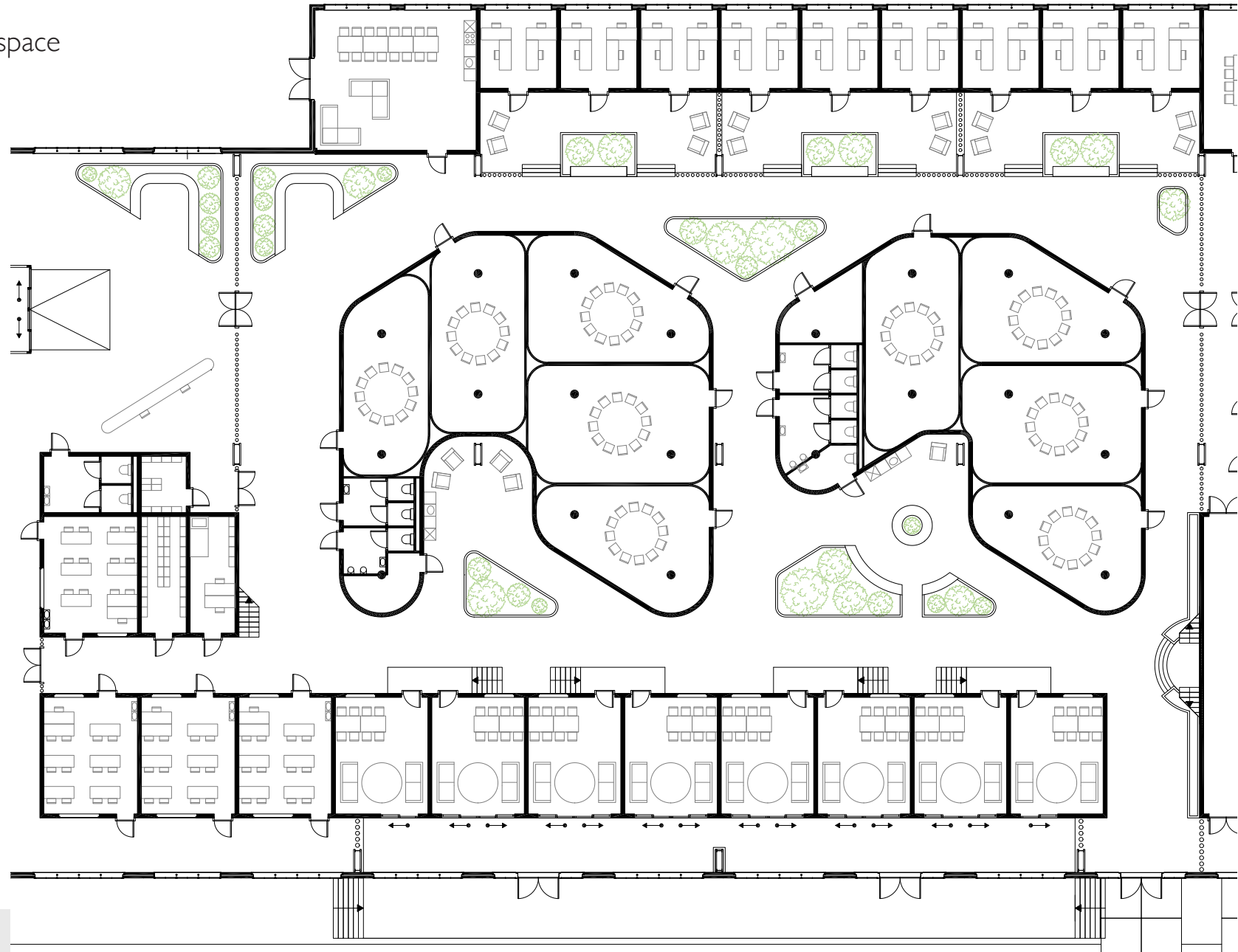
Machine hall

Room dividing piles



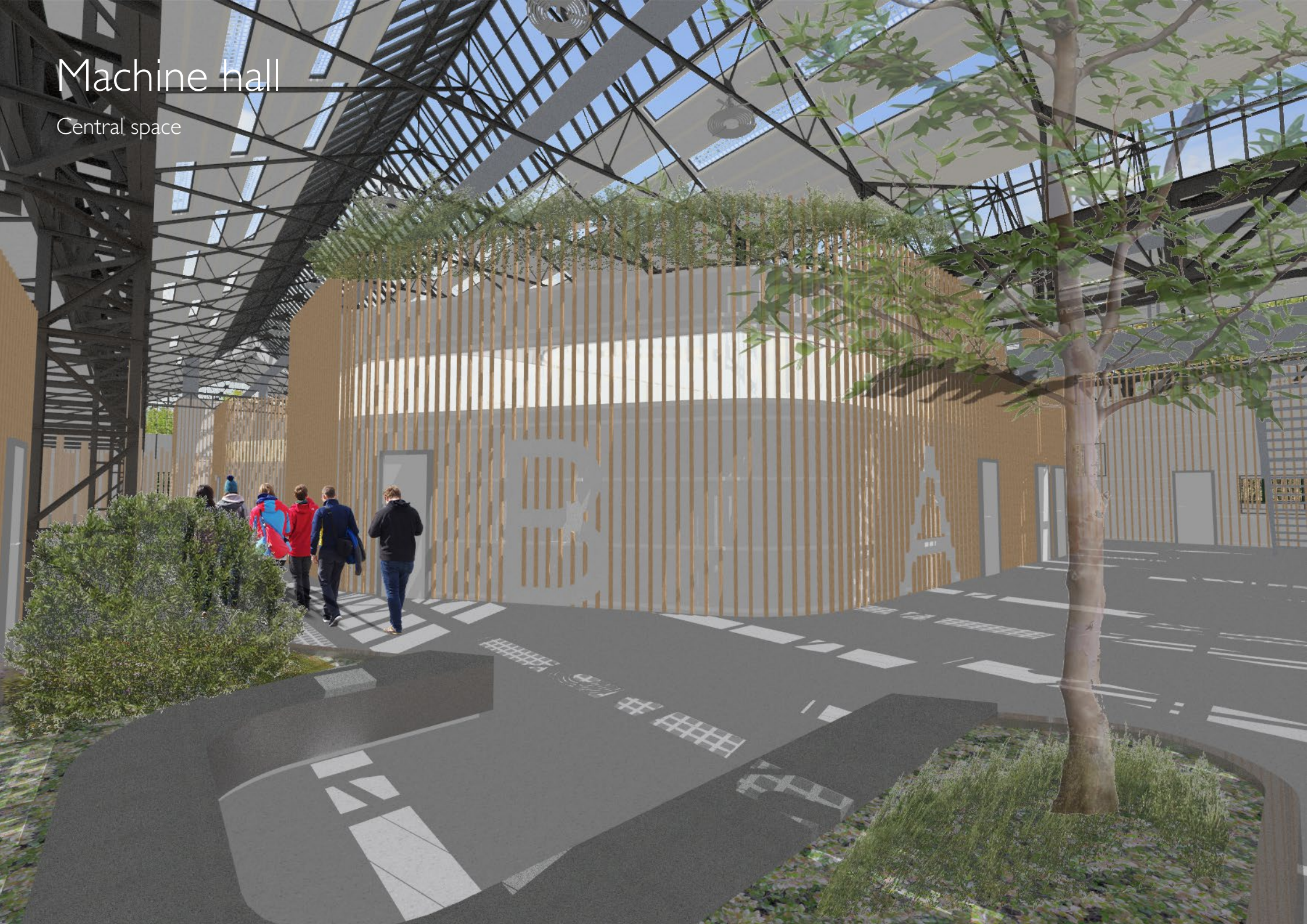
Machine hall

Central space



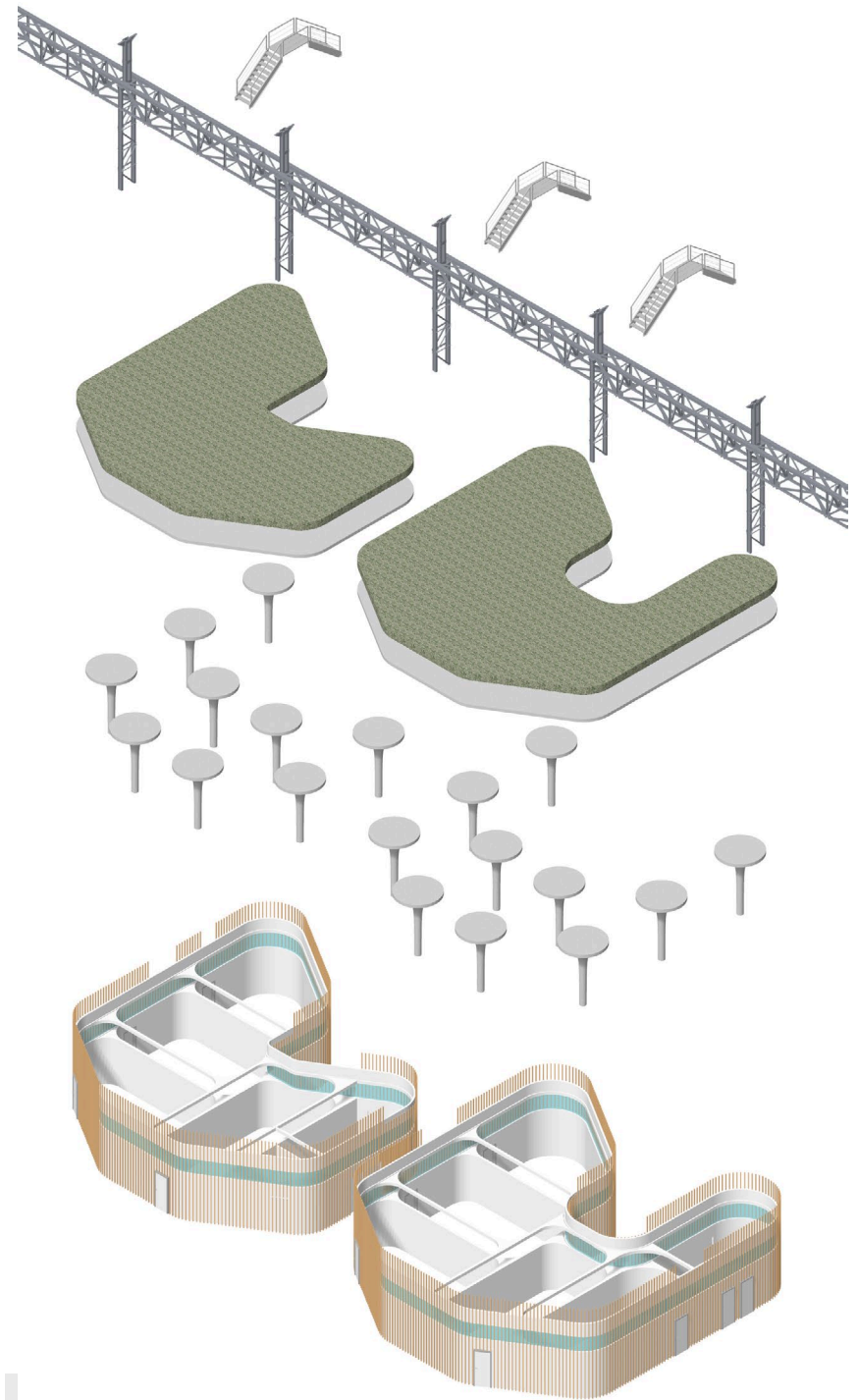
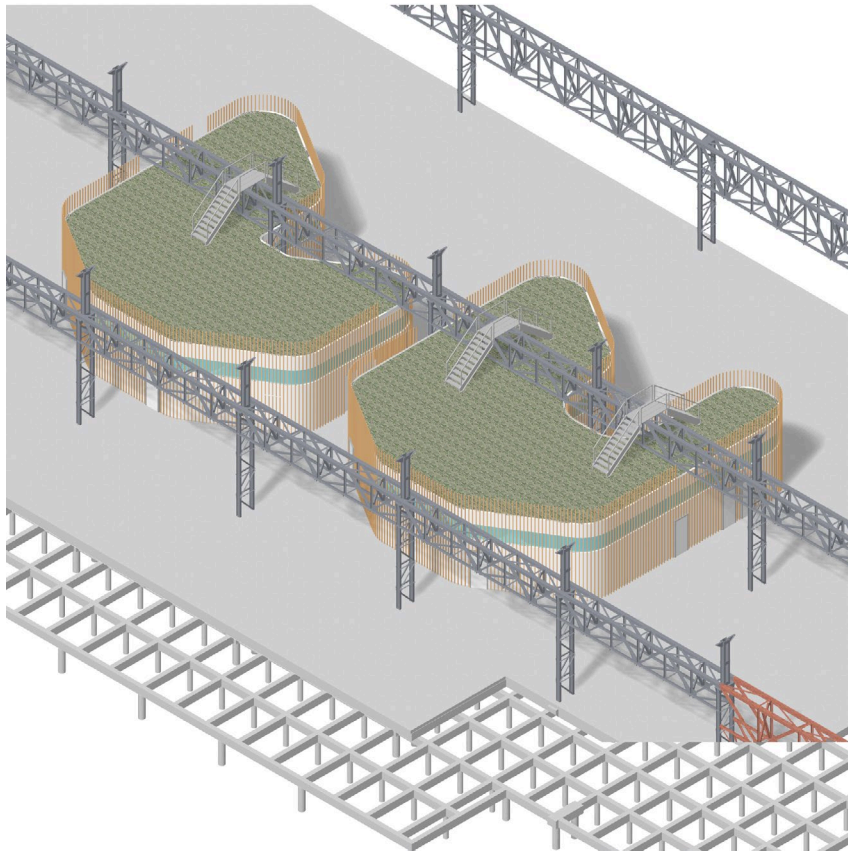
Machine hall

Central space



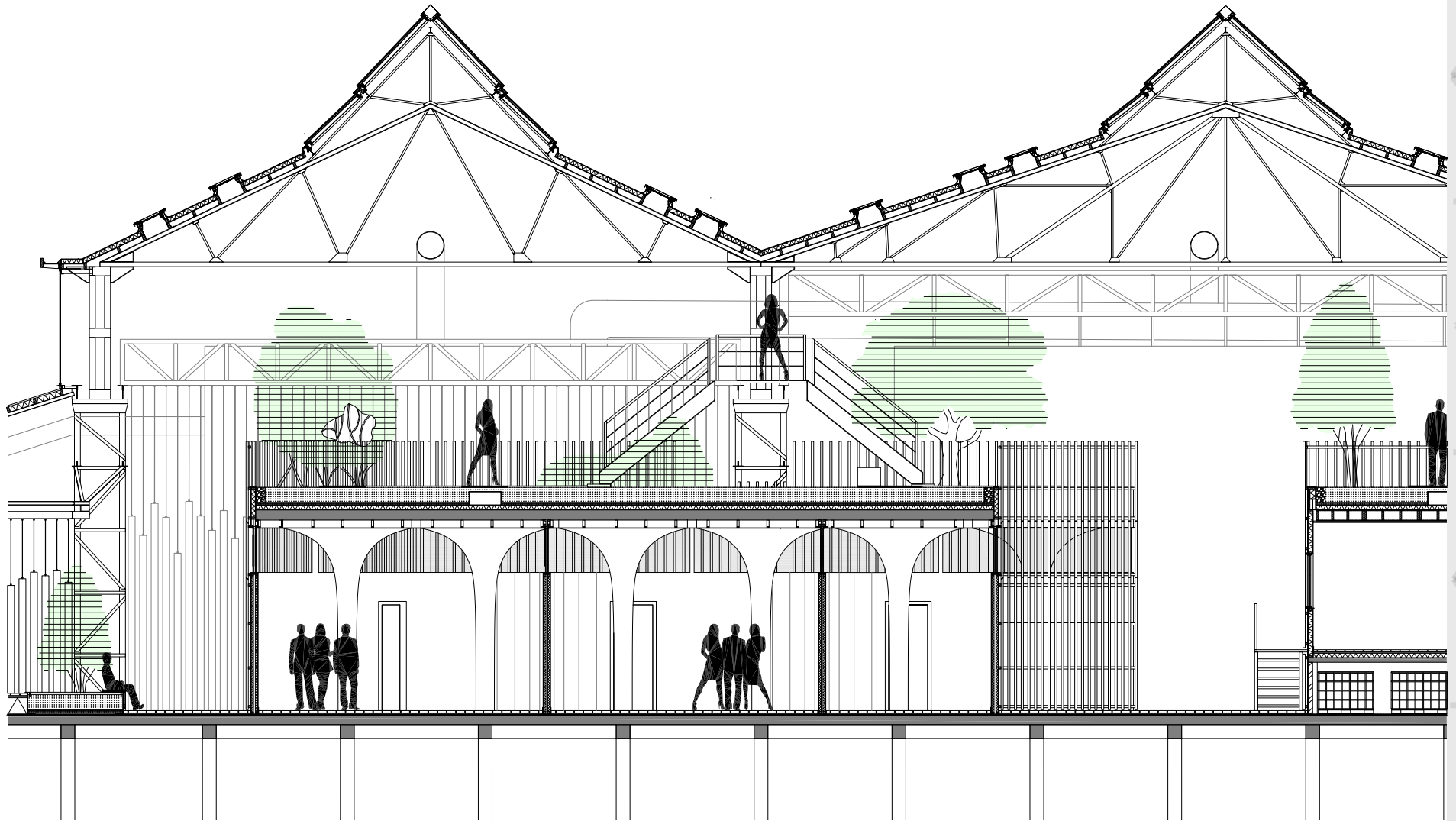
Machine hall

Group therapy rooms



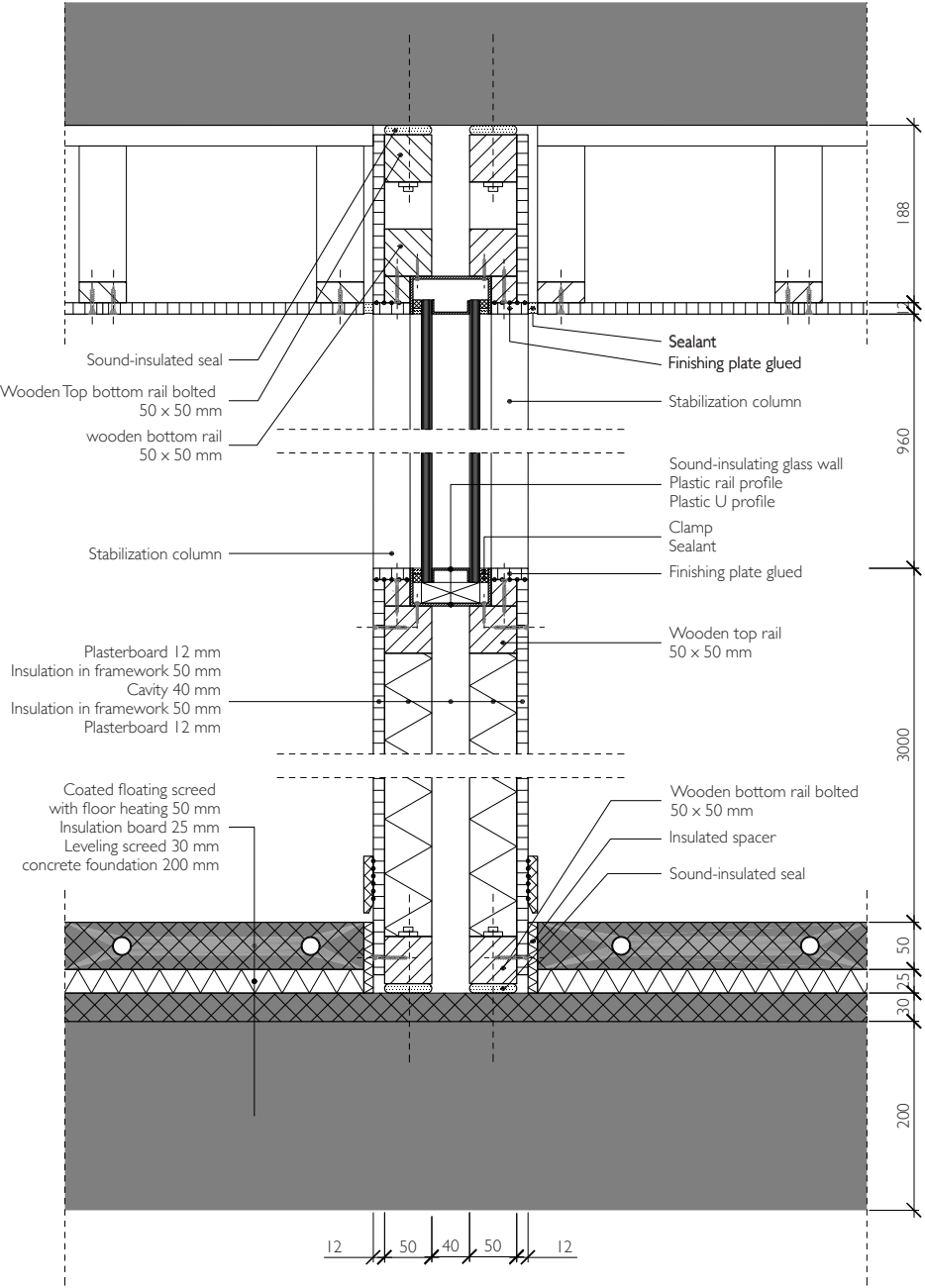
Machine hall

Group therapy rooms



Machine hall

Acoustics





Machine hall

Group therapy rooms

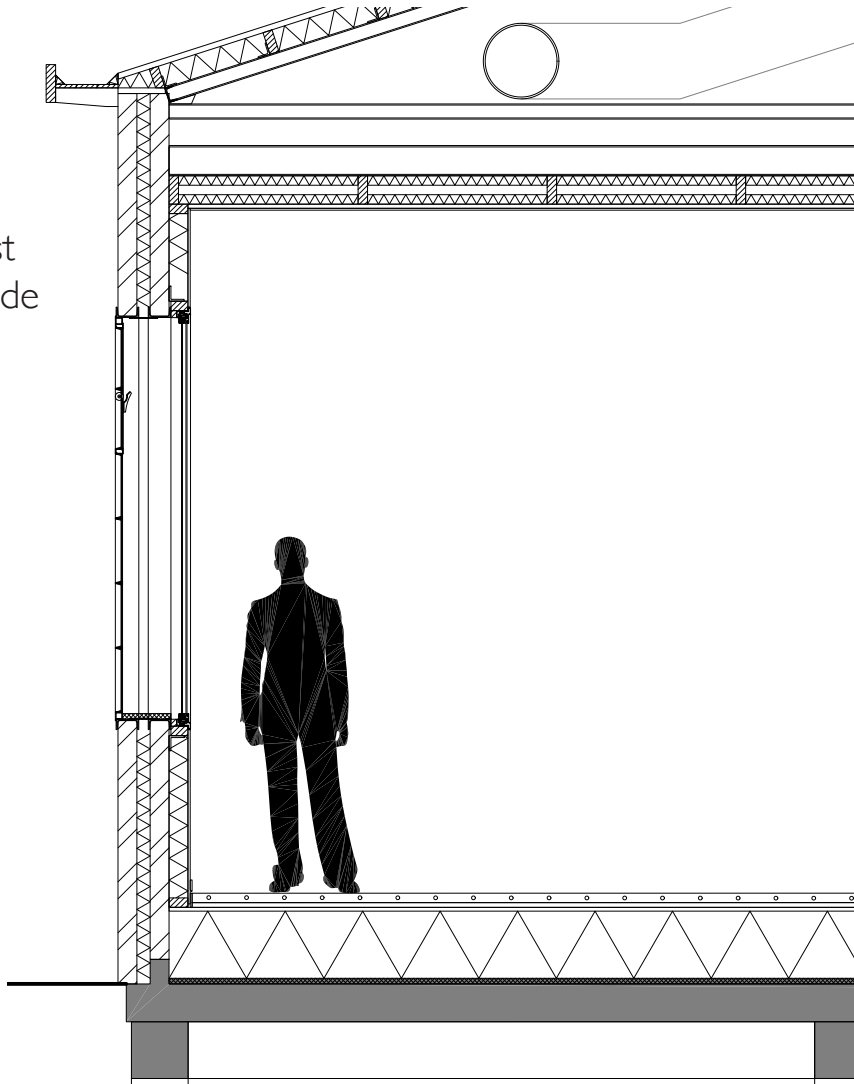


Machine hall
Offices

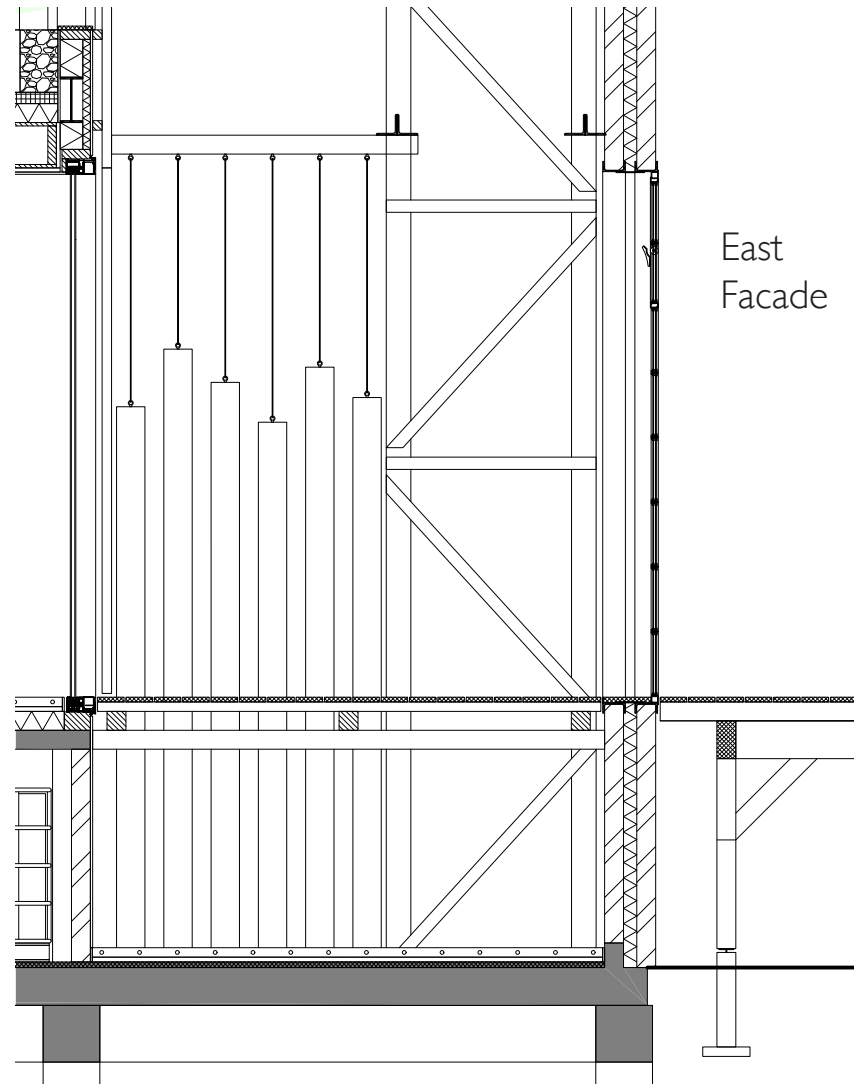
Machine hall

Windows

West
Facade

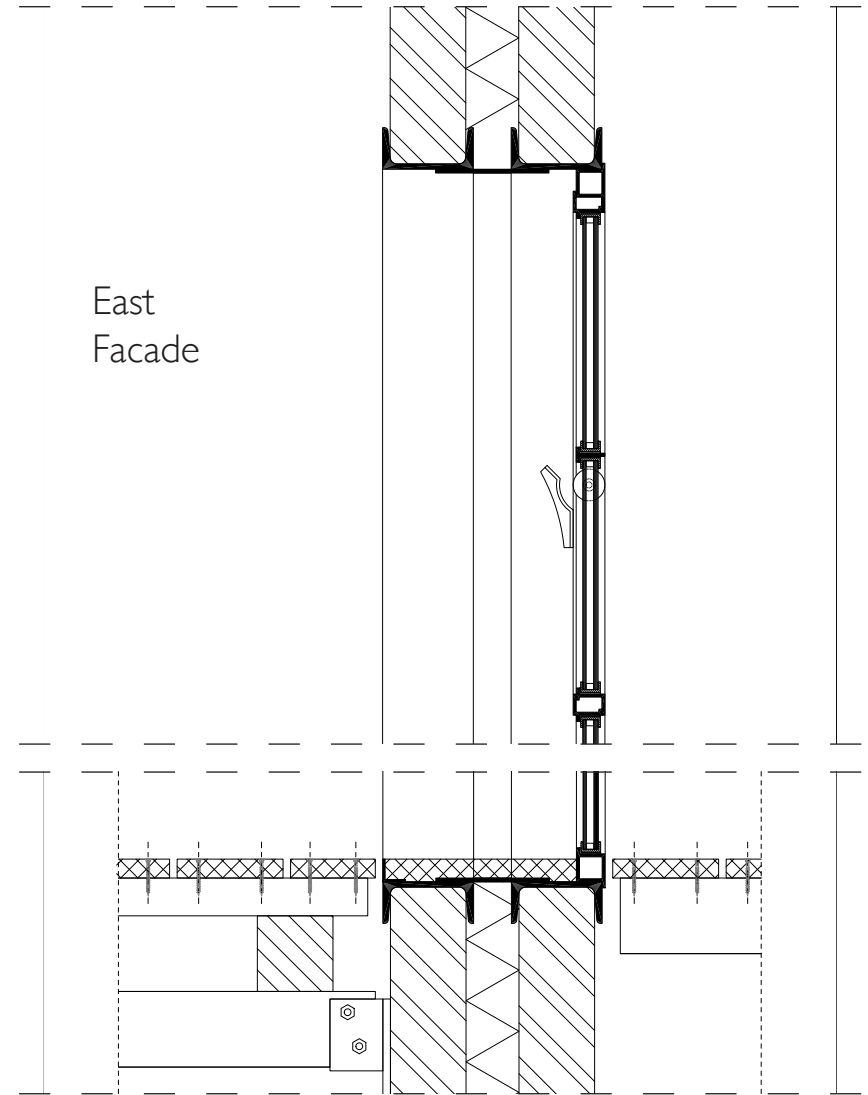
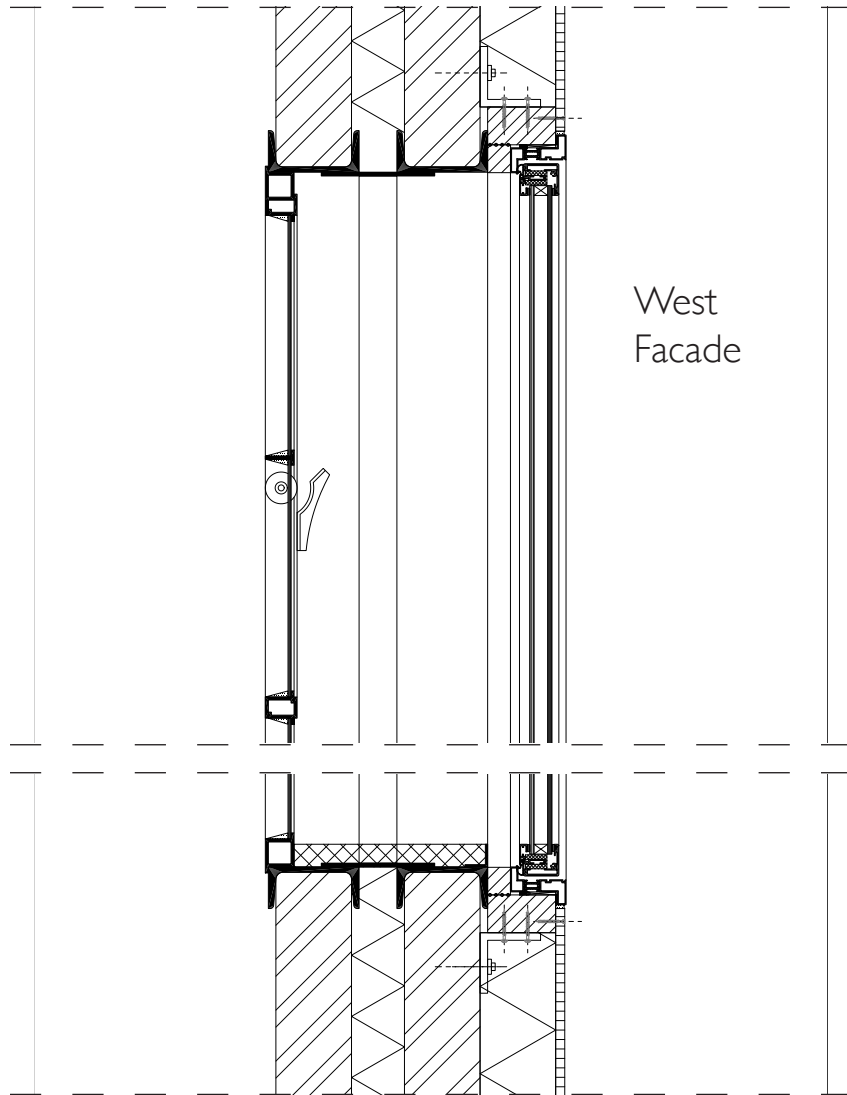


East
Facade



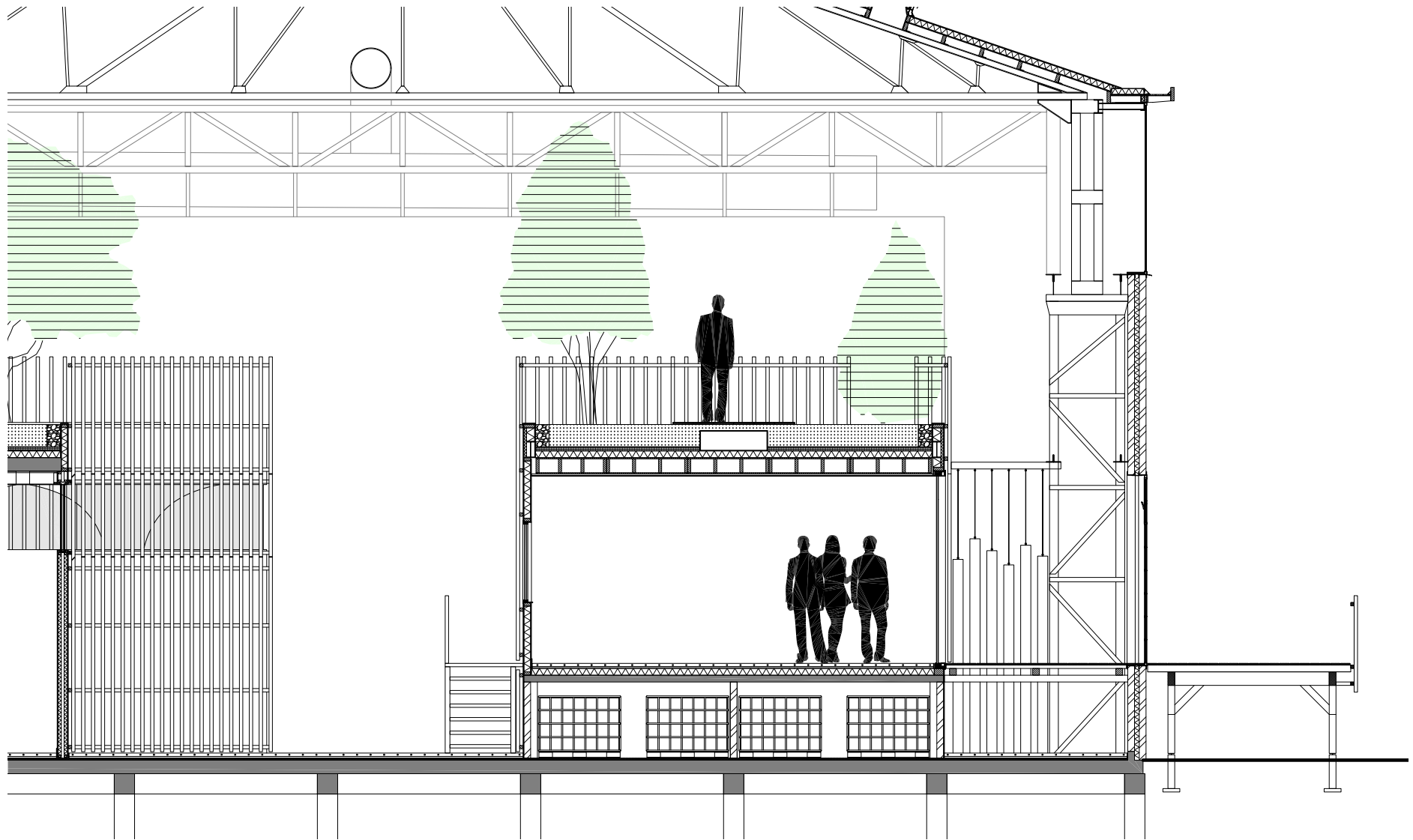
Machine hall

Windows



Machine hall

Living rooms





Machine hall

Living rooms



Machine hall

Stairs

