

P5 A new future for Maritime Heritage



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MSc3 Revitalising Heritage
16/01/2025

Collage - site visit
personal work

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Introduction
problem statement
research questions
Research
Design
introduction
analysis
current situation
new design
Reflection

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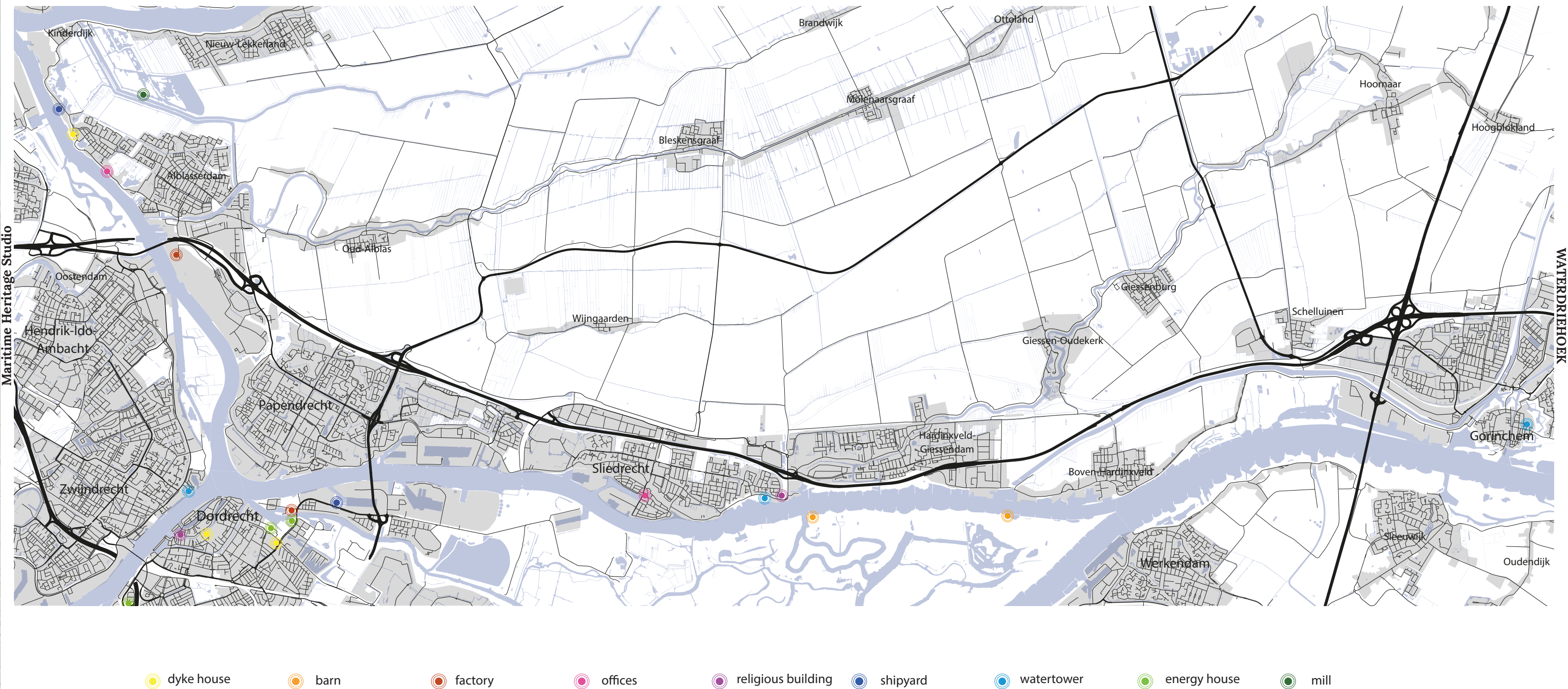
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Collage - site visit
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Spatial building typology

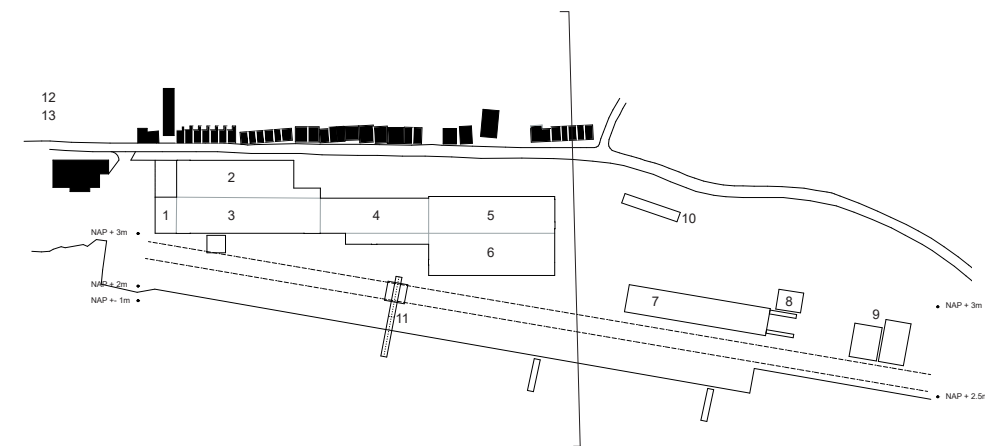
AR3AH115 Graduation Studio Revitalising Heritage

Maritime heritage studio, spring 2023-2024



Spatial building typology

Urban Conetext



Section A

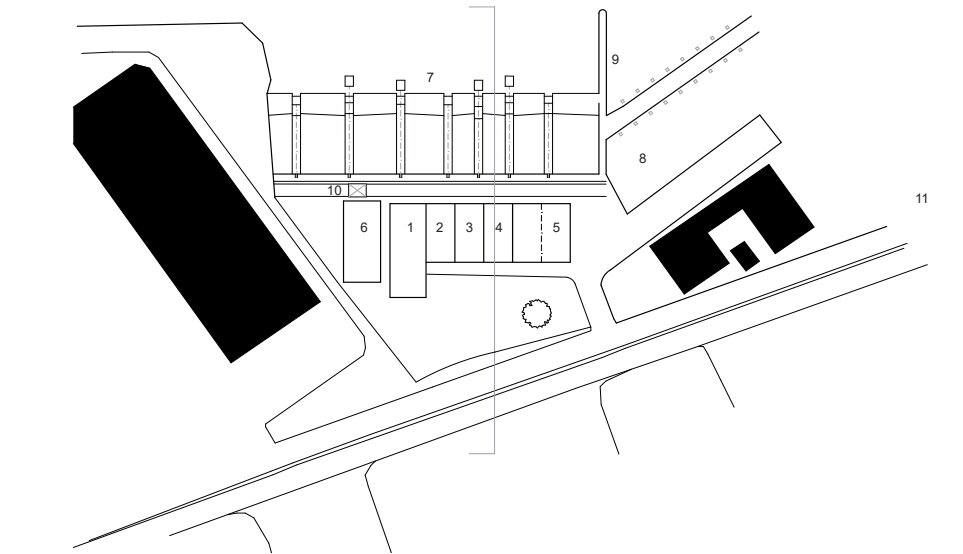
0 10 M

1. Factory office
2. Prefabricationshop I
3. Prefabricationshop II
4. Pre-assemblinghall
5. Assemblinghall I
6. Assemblinghall II
7. Shotblasting shop & Paintingshop
8. Store house
9. Romneyhalls
10. Canteen
11. Crane
12. Villa Kloos
13. Workshop Kloos

The Mercon-Kloos industrial area is defined by all these structures creating an interlinked cluster. The main building is positioned alongside the river De Noord and on opposite side follows the road along the dyke houses. The site entails a minimal slope towards the water and ends in a harsh quay.

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Urban Conetext



Section A

0 10 M

1. Assemblinghall I
2. Workshop I
3. Workshop II
4. Workshop III
5. Office
6. Assemblinghall II
7. Slope
8. Dock
9. Pier
10. Crane track
11. Office building Hoebee-Kooiman

The Hoebee Shipwark is positioned along the first Merwedehaven. The building complex is orientated towards the water and looks over a big slope for repairments of ships. The site also allows ships to dock along the pier. Together with the building structure these elements work intricately together as one.

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Problem statement



- Decrease in maritime industry in the Waterdriehoek since the 70's. (Kramer, 2008)
- Defining attributes are disappearing. (Arcadis, 2019)
- Lack of 'listed' protection. (Lier. M, 2023)

Research:

How do structural and operational attributes contribute to the functionality of shipyards in the Waterdriehoek, and what is their value as potential maritime heritage?

- How have historical events or technological advancements driven changes in the structural design, layout and operational capabilities of the shipyards?
- How can these structural and operational attributes be valued as Maritime Heritage?

How to value?

multiple charters:

‘Unesco’ - to preserve the outstanding value.

cultural identity and social memory relates to the socio-cultural interaction.

This influences our Architecture - ‘Rasoulli and others, 2019’

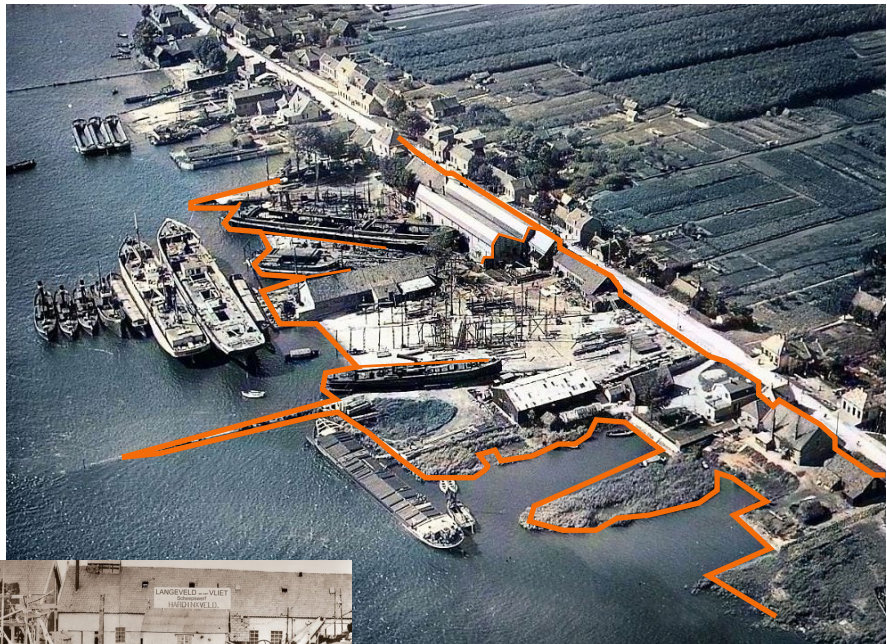
Questions like ‘why’ and what’ - ‘Havinga’ 2020



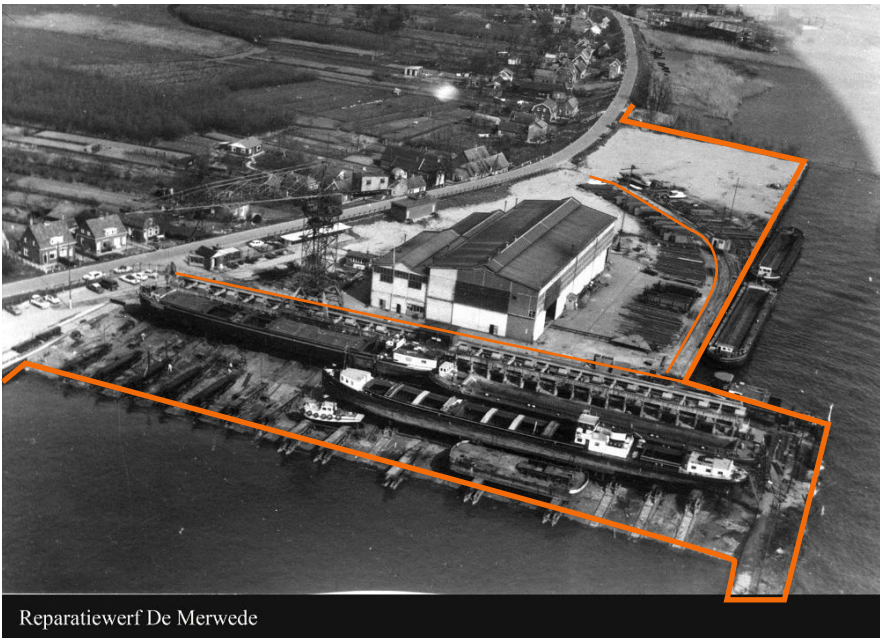
The Value Framework
(Pareira Roders, 2007)

Results

Schipyard the Merwede -
One of the first shipyards in the village



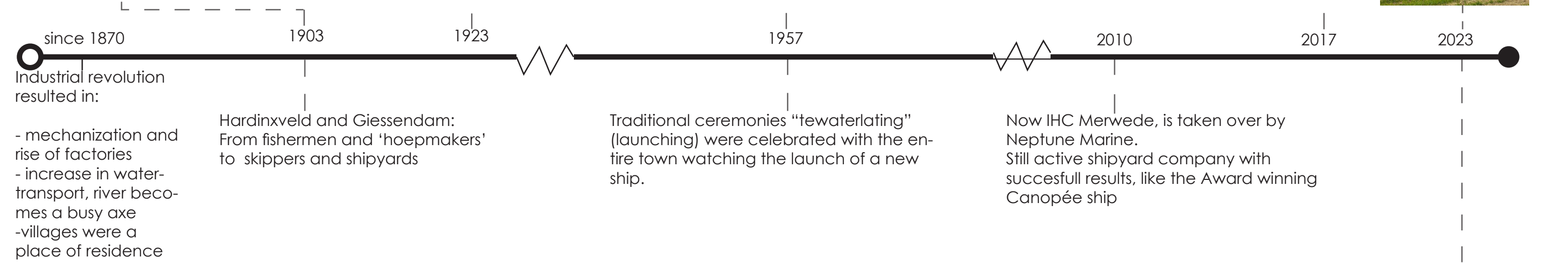
New slope



Reparatiewerf De Merwede

Repair warf

Neptune Marine - Neptune repair warf
New workhall



Results

Schipyard the Merwede -
One of the first shipyards in the village



New slope



Reparatiewerf De Merwede

Repair warf

Neptune Marine - Neptune repair warf
New workhall



The origin of Shipyard 'Merwede'

The prosperity of Maritime
industry in the Waterdriehoek

New ownership

Ex. 1

Ex. 2

Ex. 3

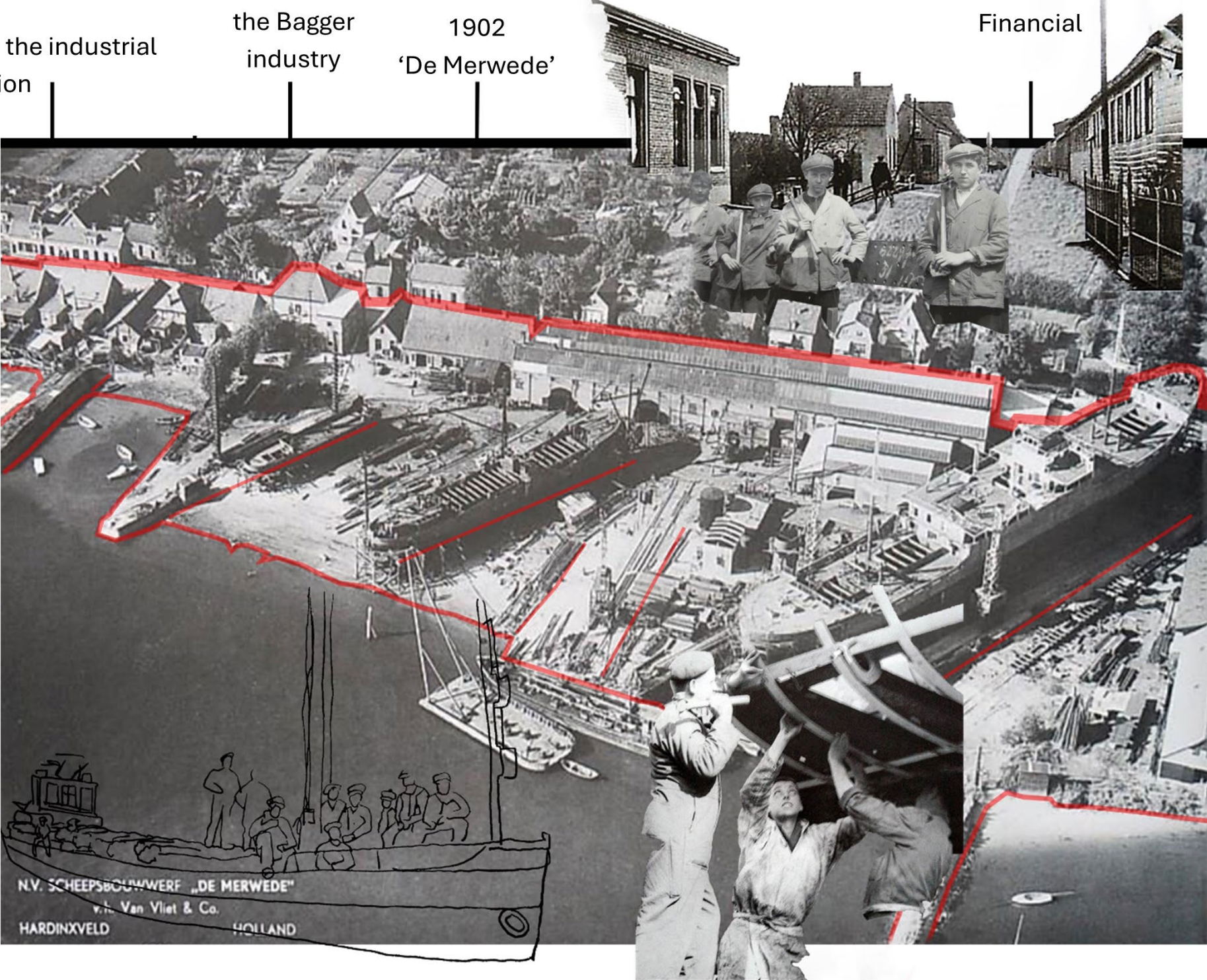
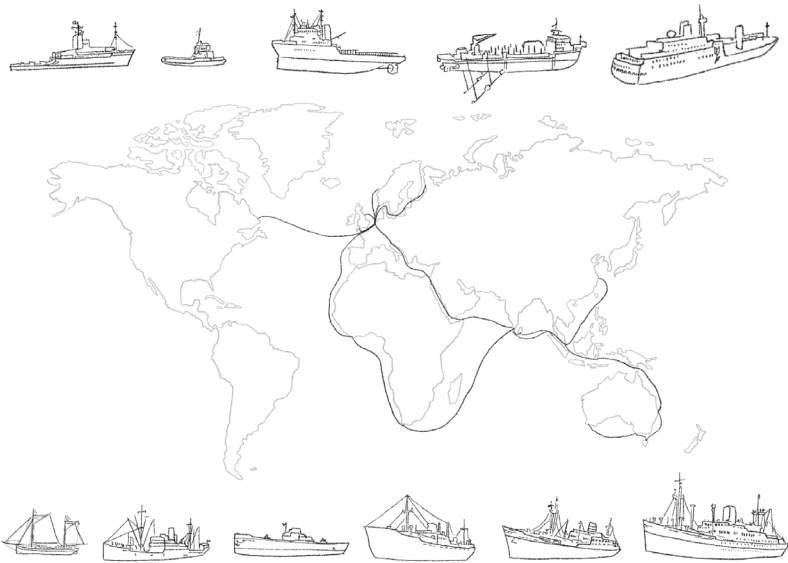
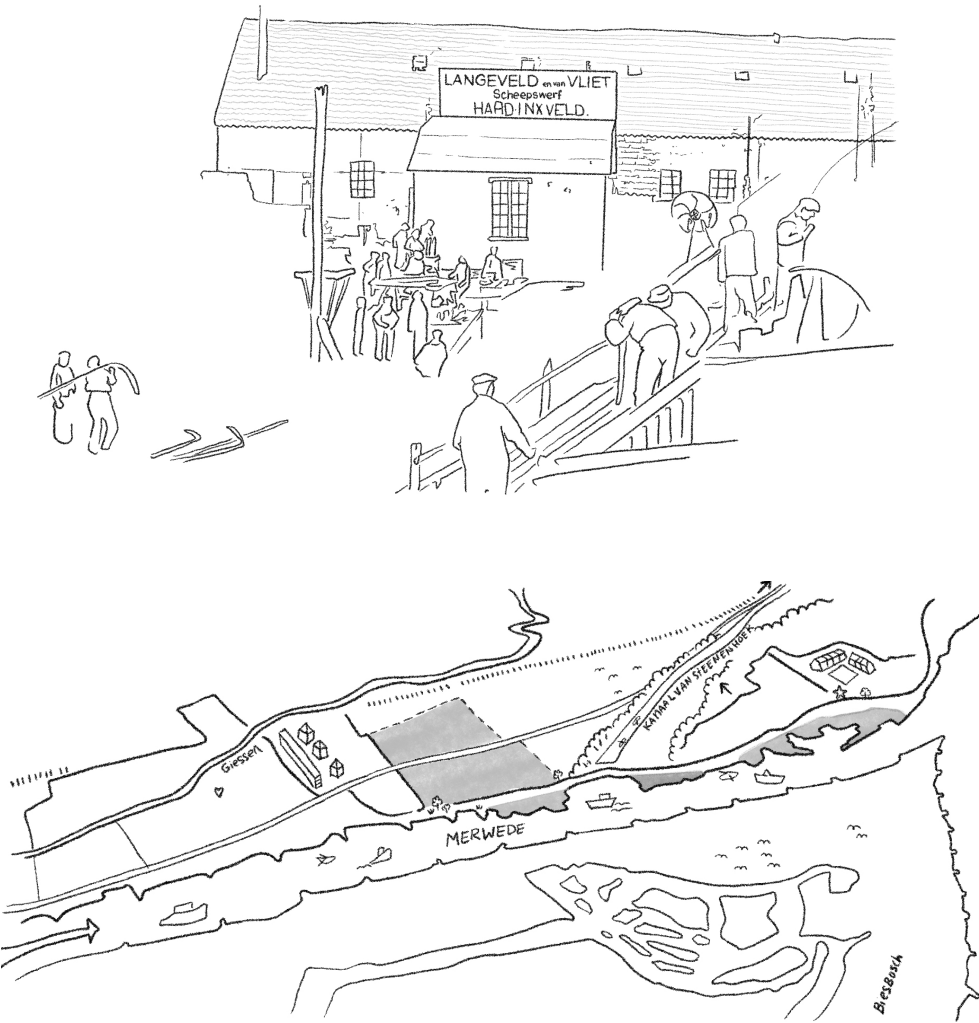
Ex. 1
The origin of the
Shipyards 'Merwede'

1870> Start of the industrial revolution

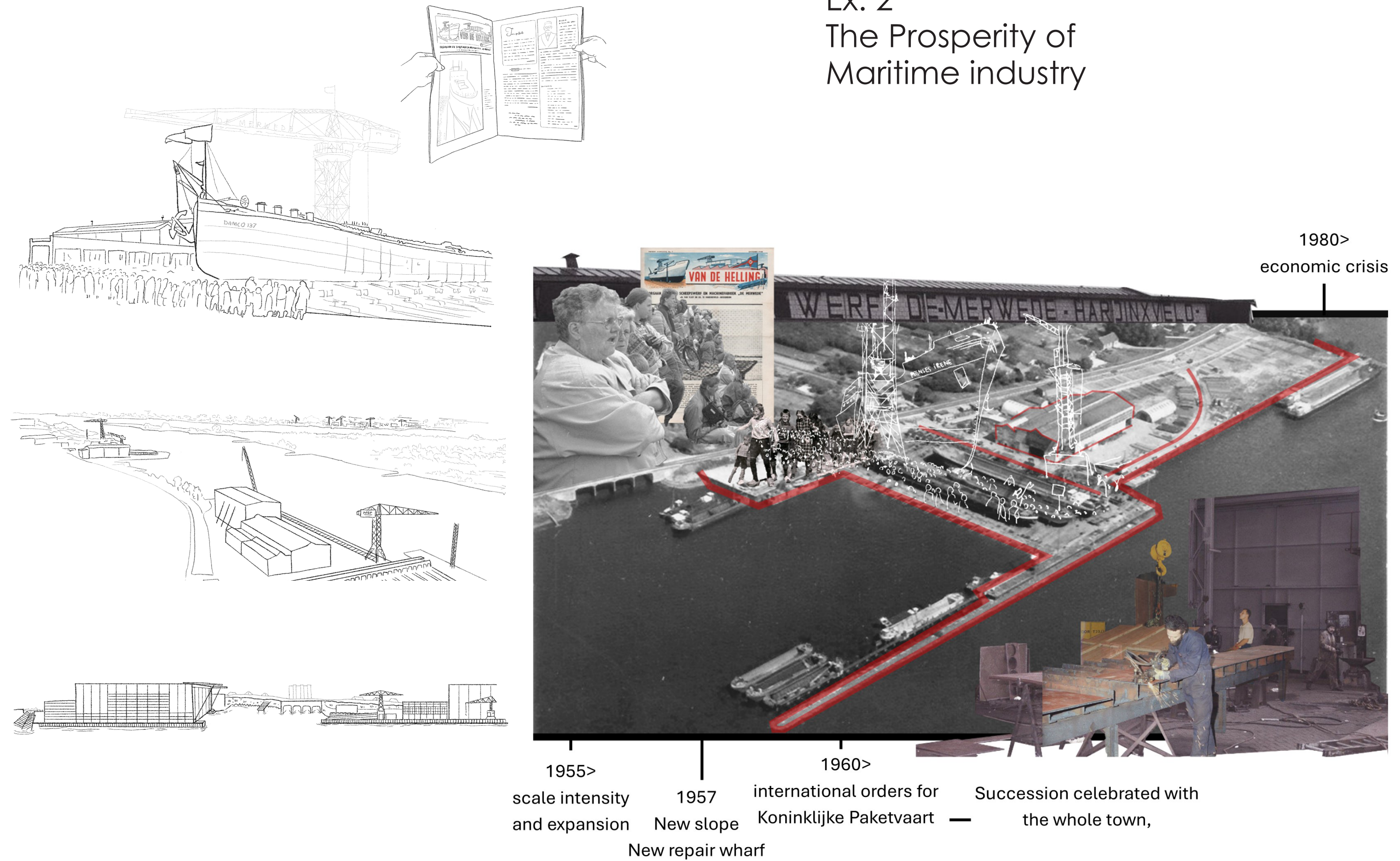
1890> transition into the Bagger industry

1902 'De Merwede'

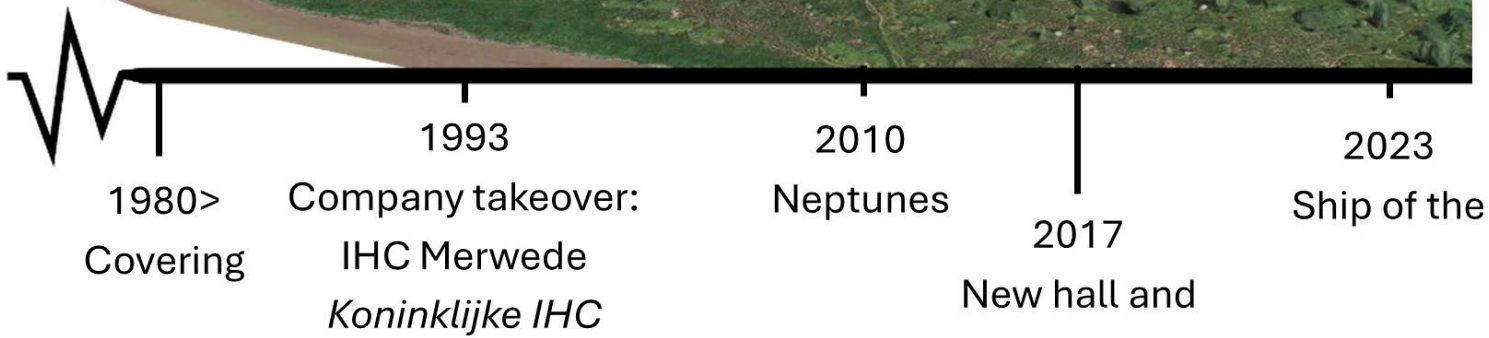
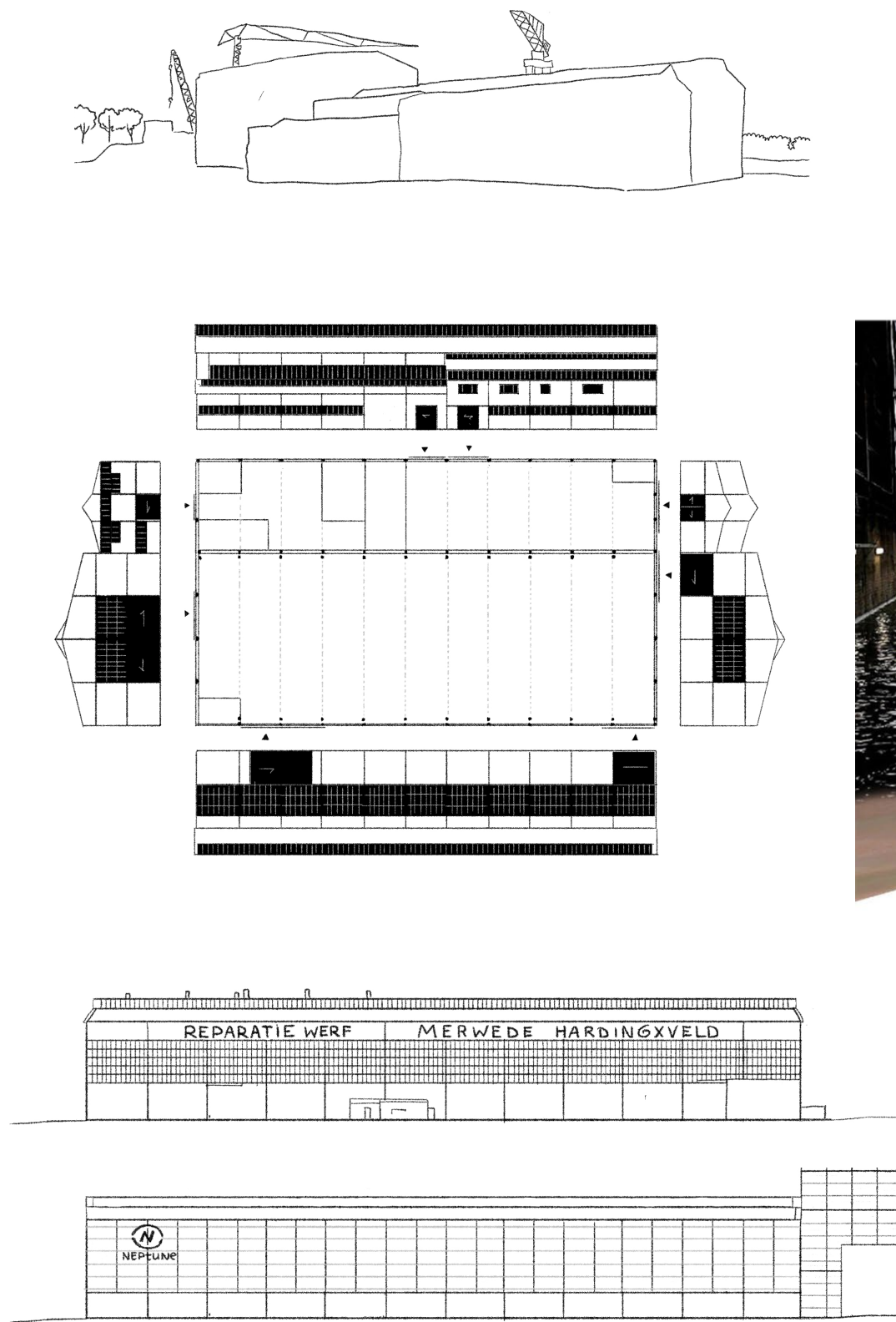
1930 Financial

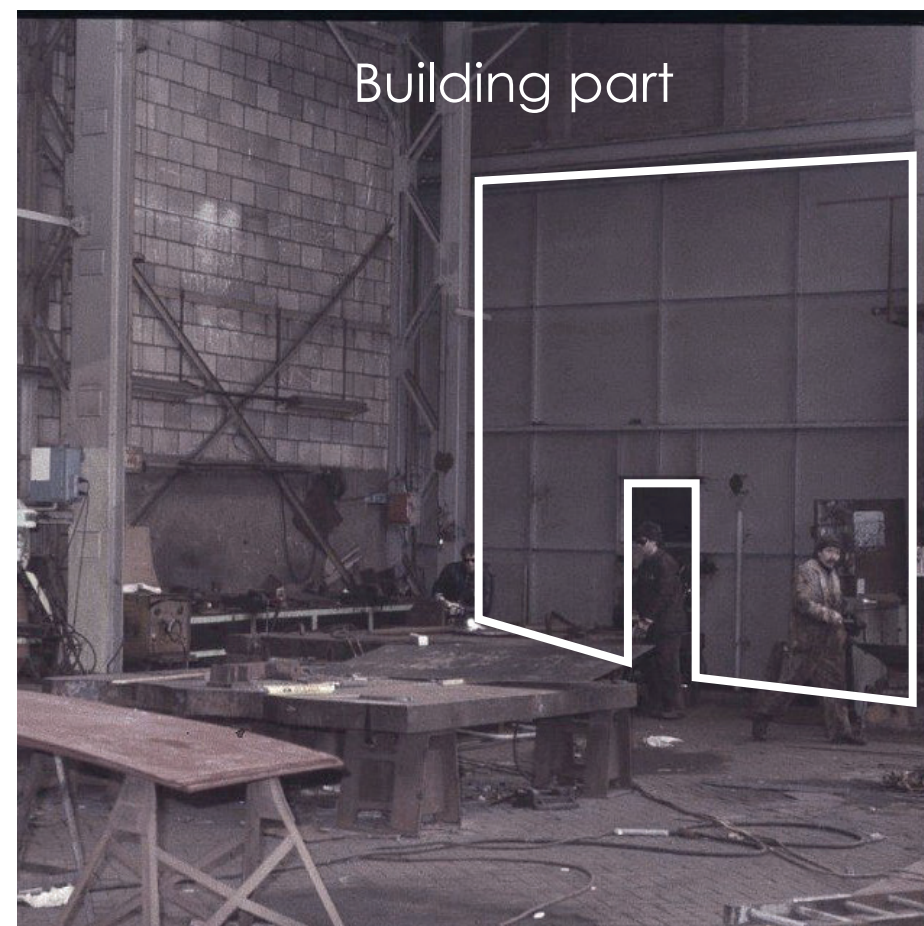
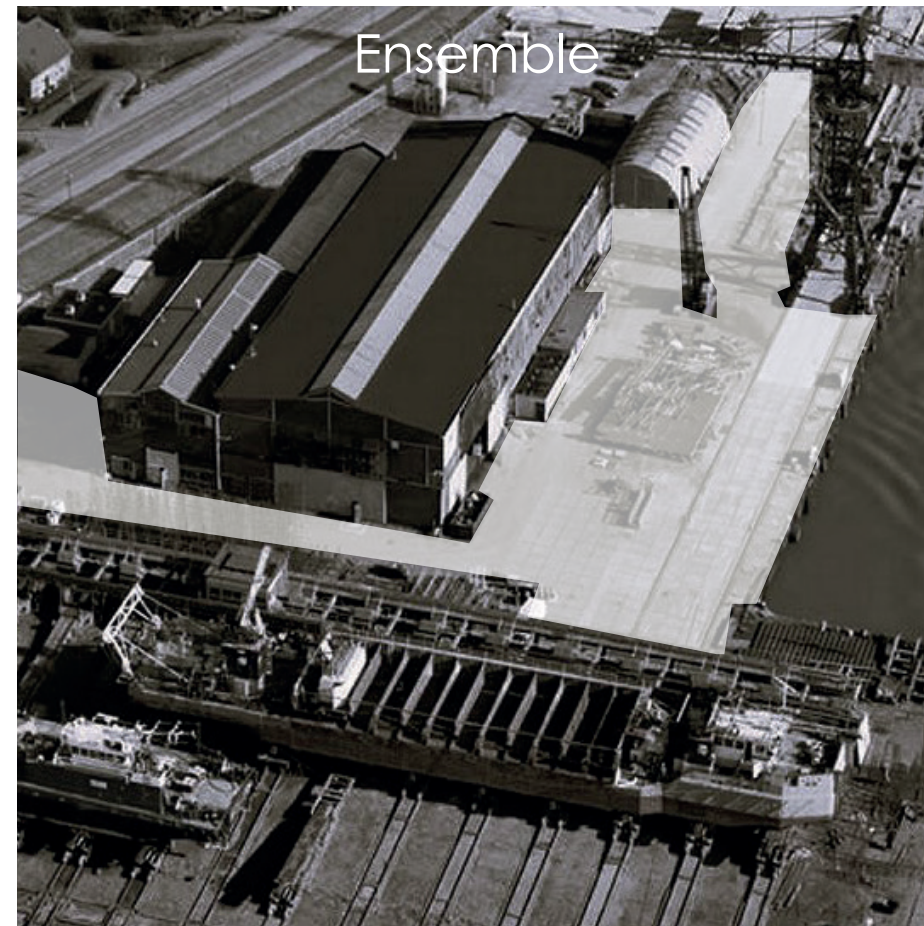
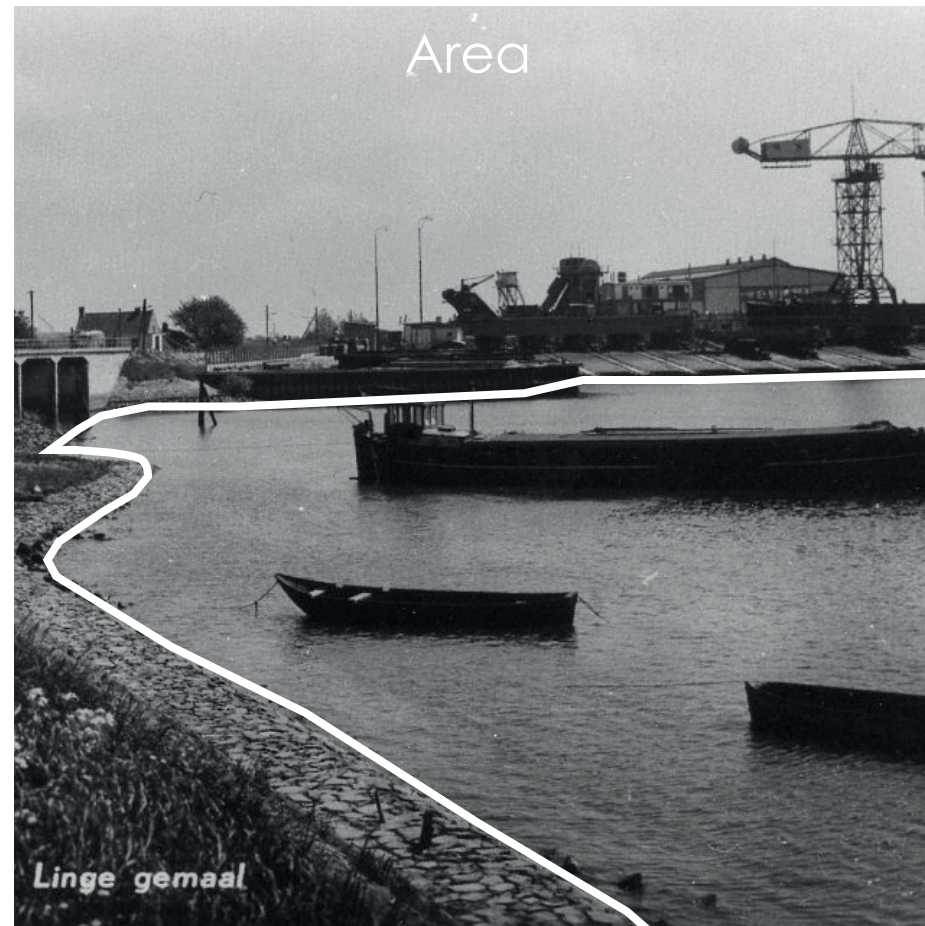


Ex. 2
The Prosperity of
Maritime industry



Ex. 3
New ownership





Scales - attributes
(Havinga et al., 2020)

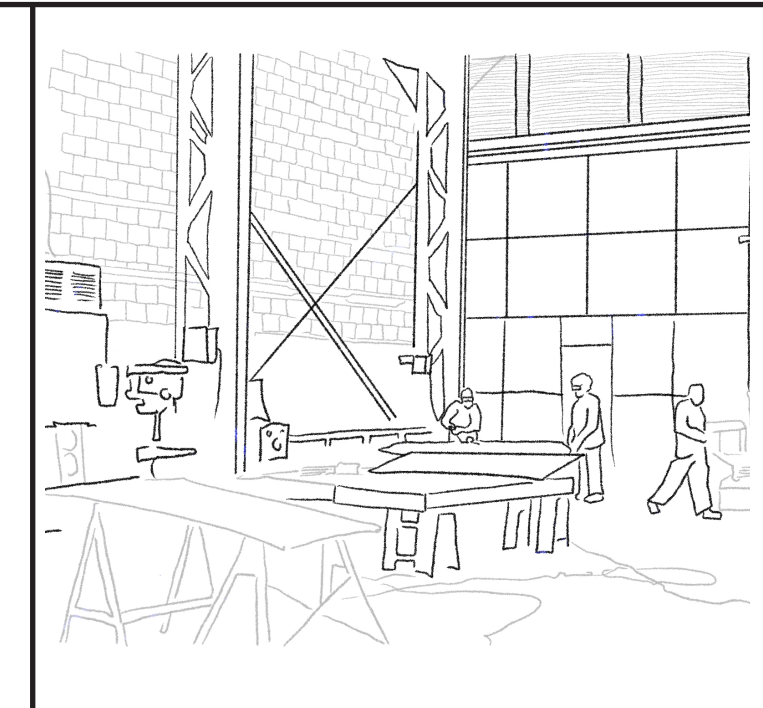
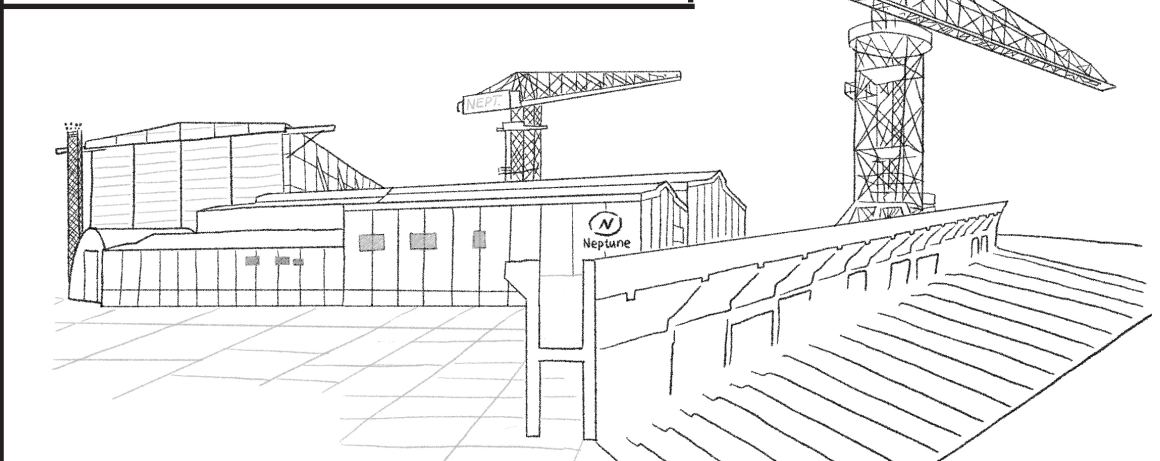
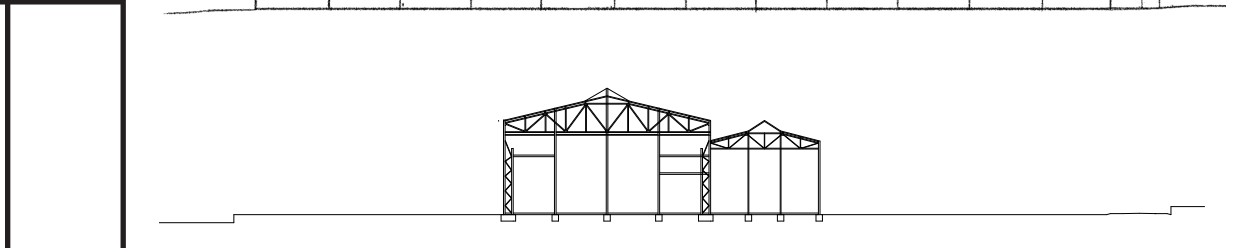
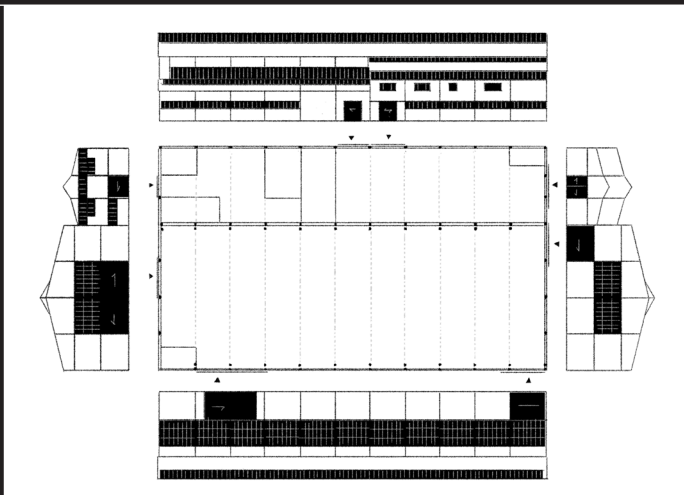
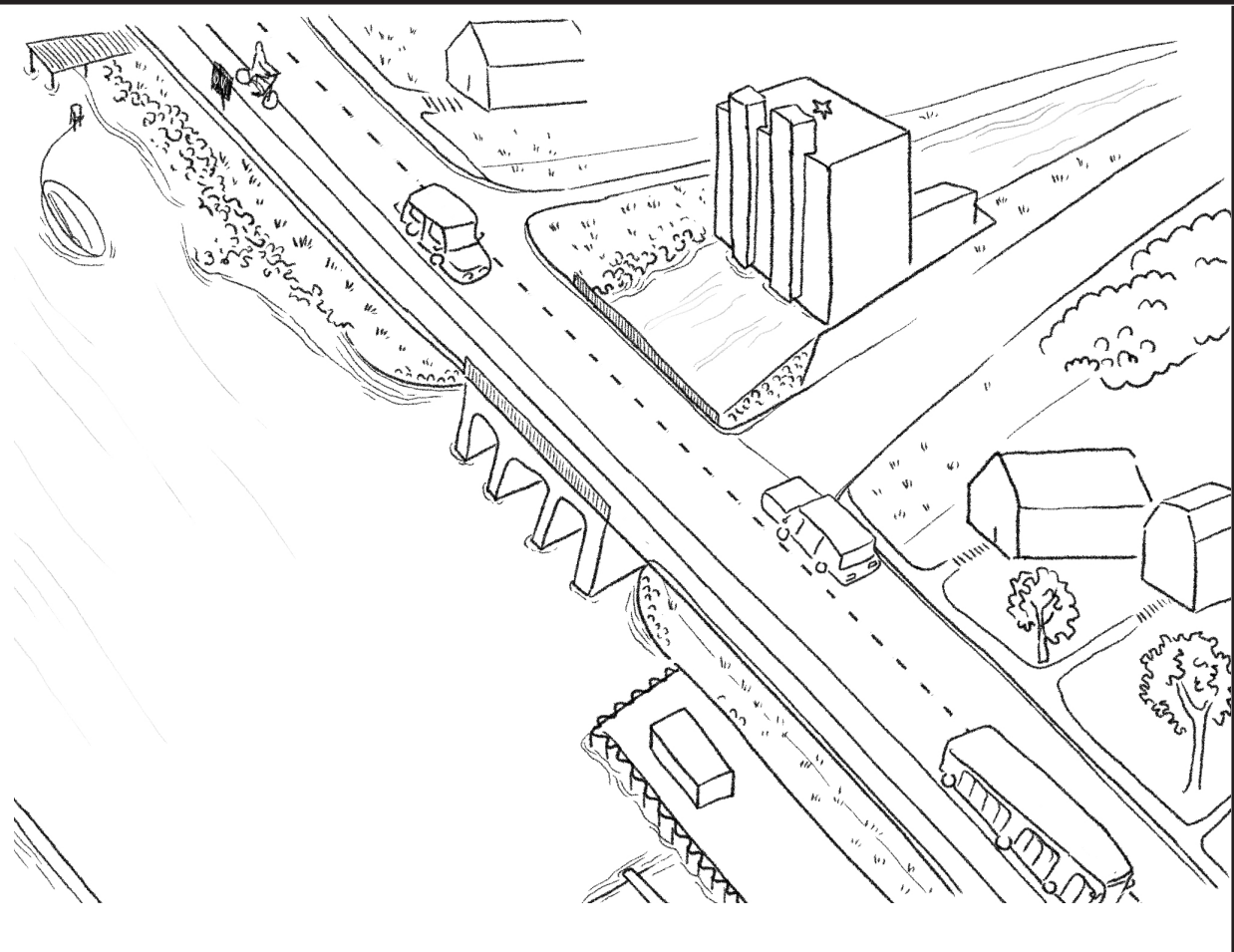
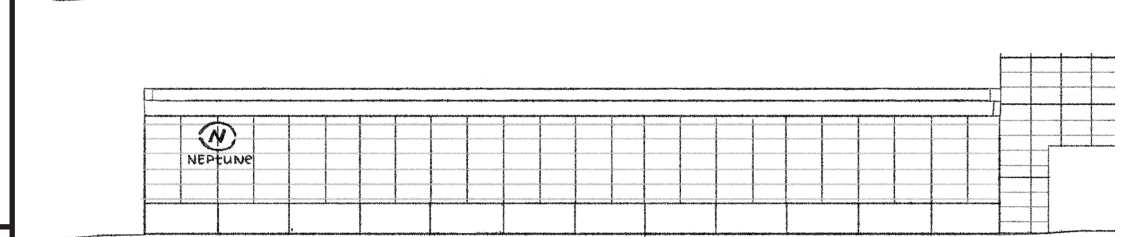
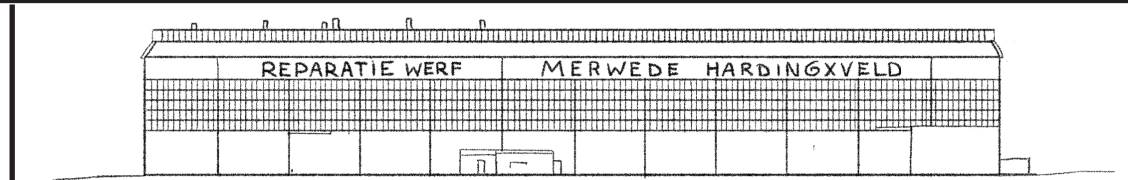
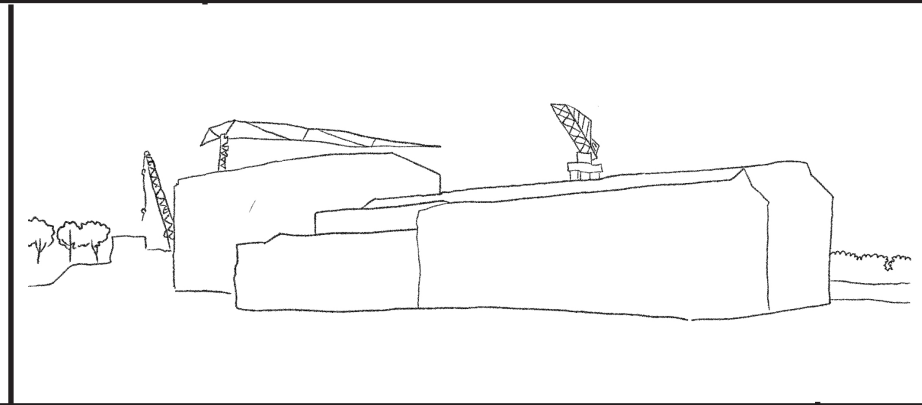
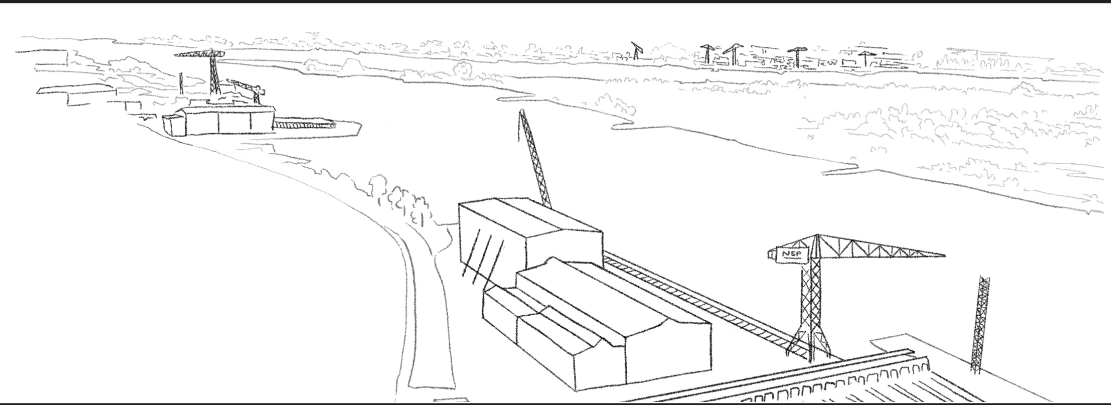
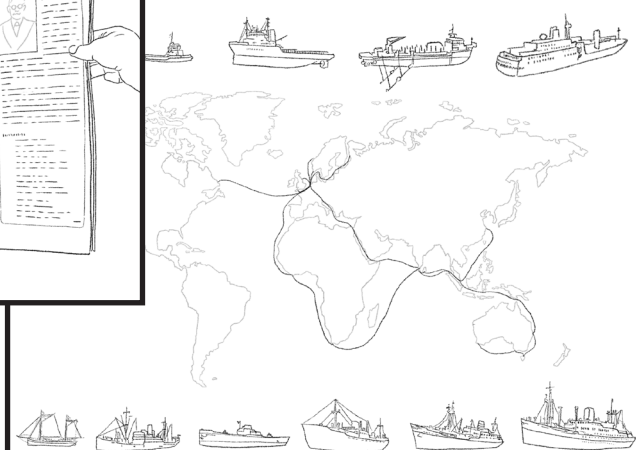
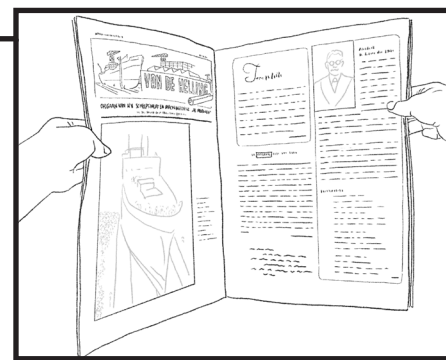
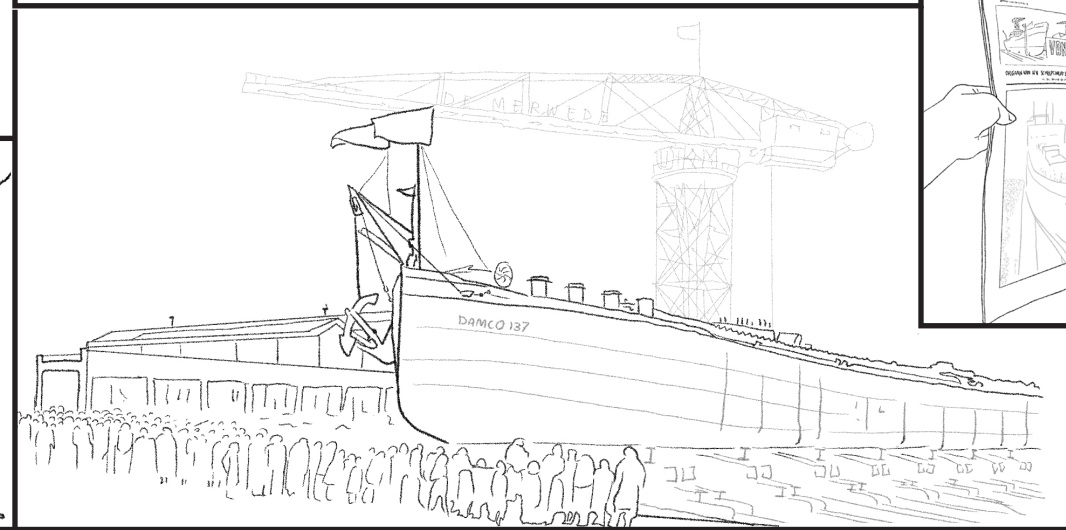
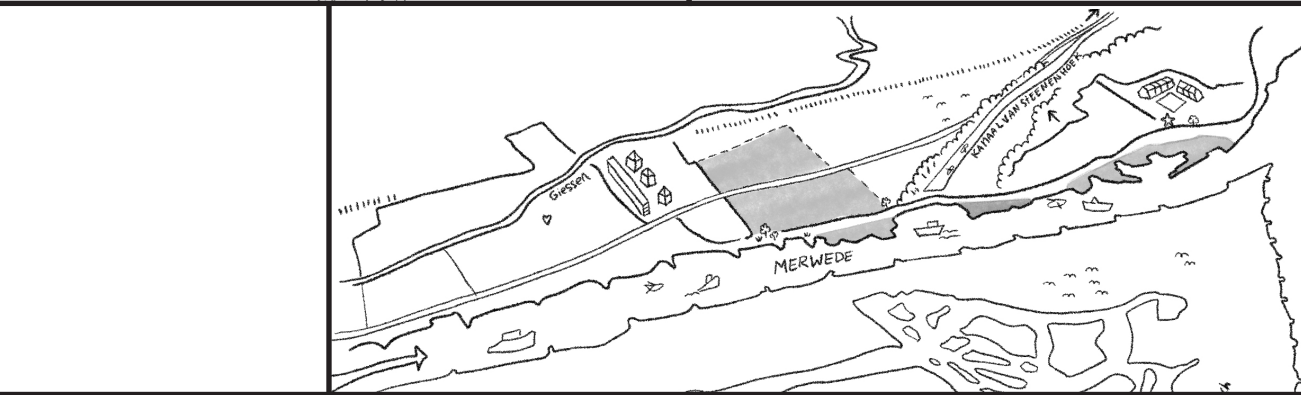
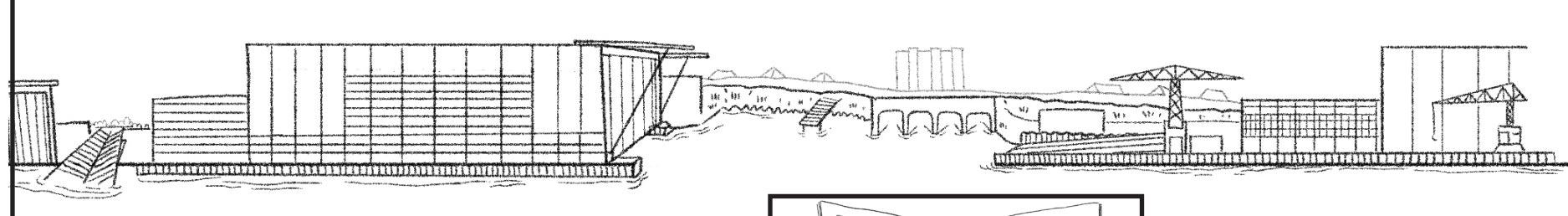
Research

Value assessments – Area

shipyard de Merwede	Tangible	industrial maritime company	historical value
		heritage and identity	Social, historical value
	Intangible	Workforce	Economic value
		Community impact	Social, historical value
River Merwede	Tangible	transportational access	Economical, ecological value
		man-made landscape	Economical, scientific historical value
	Intangible	heritage and identity	Social, historical value
		connection	Economical, ecological
Spatial organization	Tangible	Industrial area	Economical value
		Accessibility	Social, historical value
Greenery	Tangible	Diversity	Aesthetical, economical, ecological value
Ensemble	Intangible	Biodiversity	Ecological value
		Tranquillity	Social value
Rails along the river	Tangible	Accessibility	Economic, scientific, social, aesthetic value
		Material	Economic, aesthetical value
		Connection	Economic, social, aesthetical, historical value
	Intangible	Operational efficiency	Economic, scientific value
		Flexibility	Economic value
		Adaptability	Age, economic, scientific value

Building

facade	Tangible	Material	Aesthetical, historical value
		Volume	Social, aesthetical value
		Windows	Economic, aesthetical value
		Openings	Economical, social value
	Intangible	Layout	Aesthetical value
		Identity	Social, aesthetical, historical value
		Cultural and historical	Historical value
		Shape	Aesthetical, historical value
Roof	Tangible	Identity	Aesthetical value
	Intangible	Material	aesthetical, historical value
		Type	Scientific/age value
Structure	Tangible	Functional capacity	Economic, social value
		Visibility	Aesthetical value
		Adaptability	Social, economical value
		Identity	Aesthetical, historical value
	Intangible	Dimensions	Economic value
		Accessibility	Economic, social value
		Layout	Economic, social value
		Flexibility	Social, historical value
	Intangible	Operational efficiency	Economic value
		Identity	Aesthetical, historical value



Firt shipyard in Hardinxveld-Giessendam

Historical value

Maritime industrial heritage

From agriculture
towards industrial town

Social value

Industry

and

neighbourhoods

Economic value

Proud

Community

Social value

Historical value

Water as connector

Tradition

Shared

with

village

Identity

Man-made landscape

Economic value

Access through river

Shared
stories

Archive

Shipyards legacy

Typology
and
craftsmanship

Historical value

International waters

Production over the world

Economic value

Economic developments

Part of the Waterdriehoek

Maritime heritage connection

Job opportunity

Dyke connection

Aesthetical value

3 Volumes

Shape

Human scale

Ensemble

Identity

Shipyard

Materiality

O r i e n t a t i o n

aesthetical value

Economic value

Identity name

Change

Adaptation

Flexibility

Natural light

Dimentions

Economical value

River transport

land transport

Accessibility

Crossroad for 'De Merwede' and 'Het kanaal van Steenenhoek'

Man-made landscape in between
the natural environment

Biesbosch and agricultural land

Openings

Use value

Economic value

open space plan

Dimentions

Accessibility

Defining attributes/structures

Ensemblbe

Crane

Rails

Space in between

Workhalls

Storage

Aesthetical value

Use value

use value

Defining character

Collaborating workspace

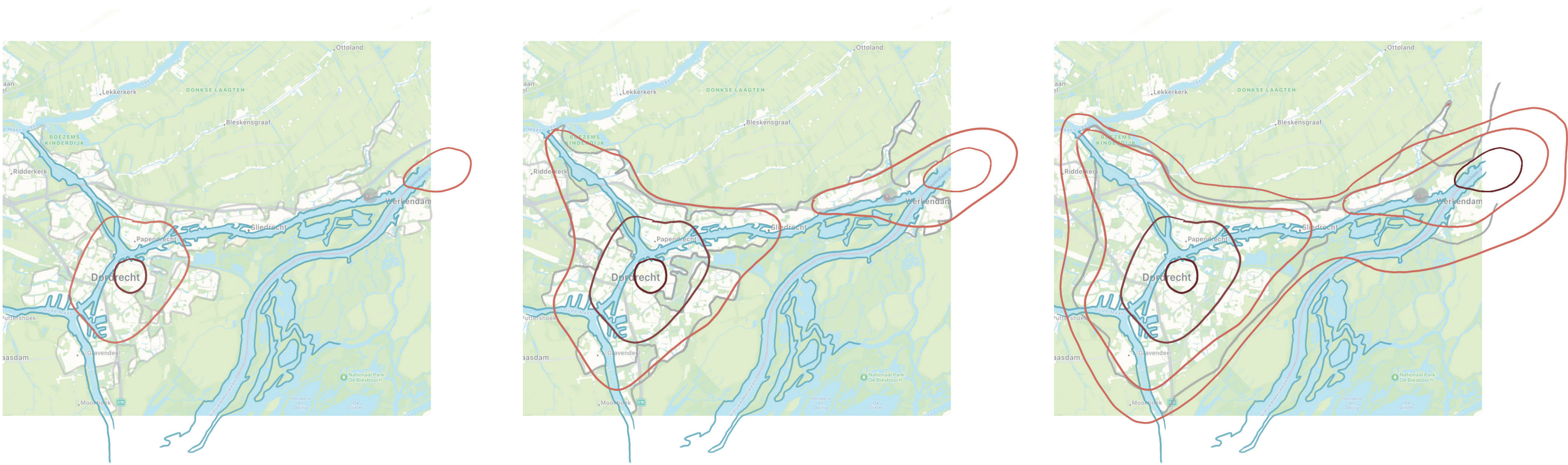
social value

Open workspace

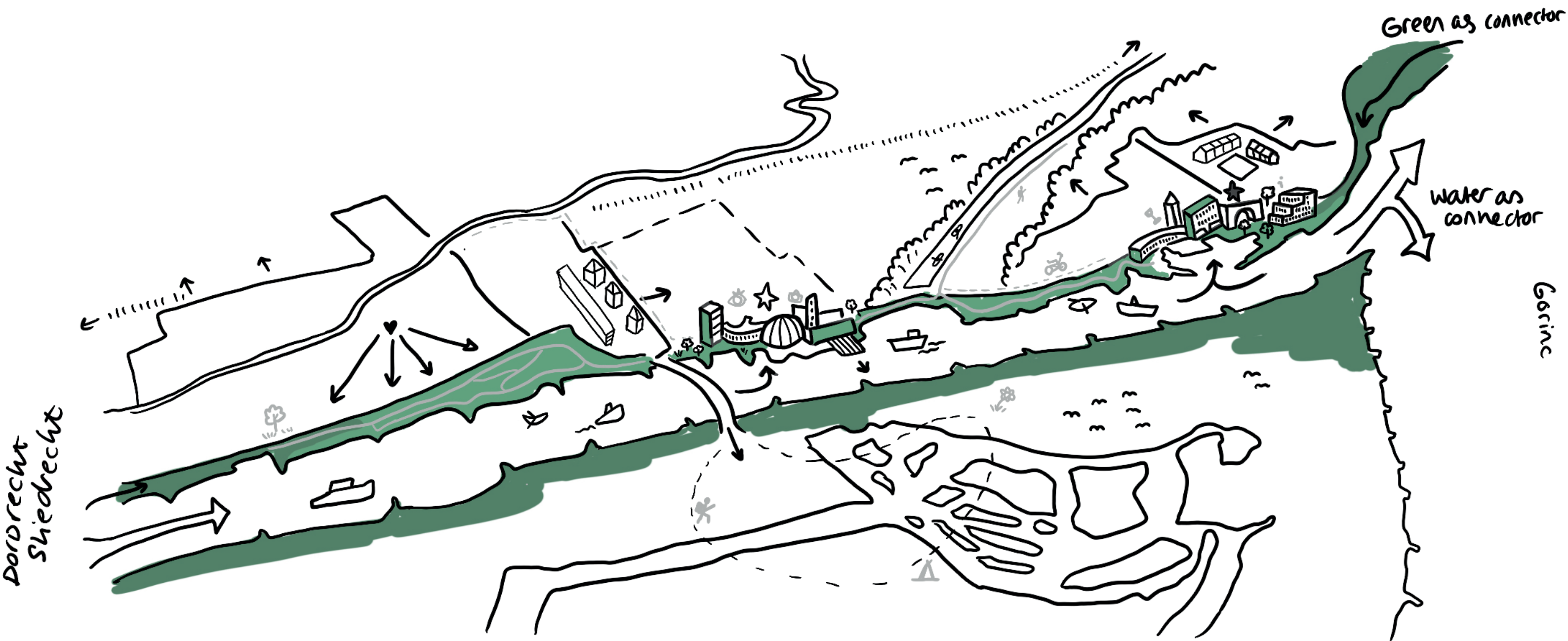
community

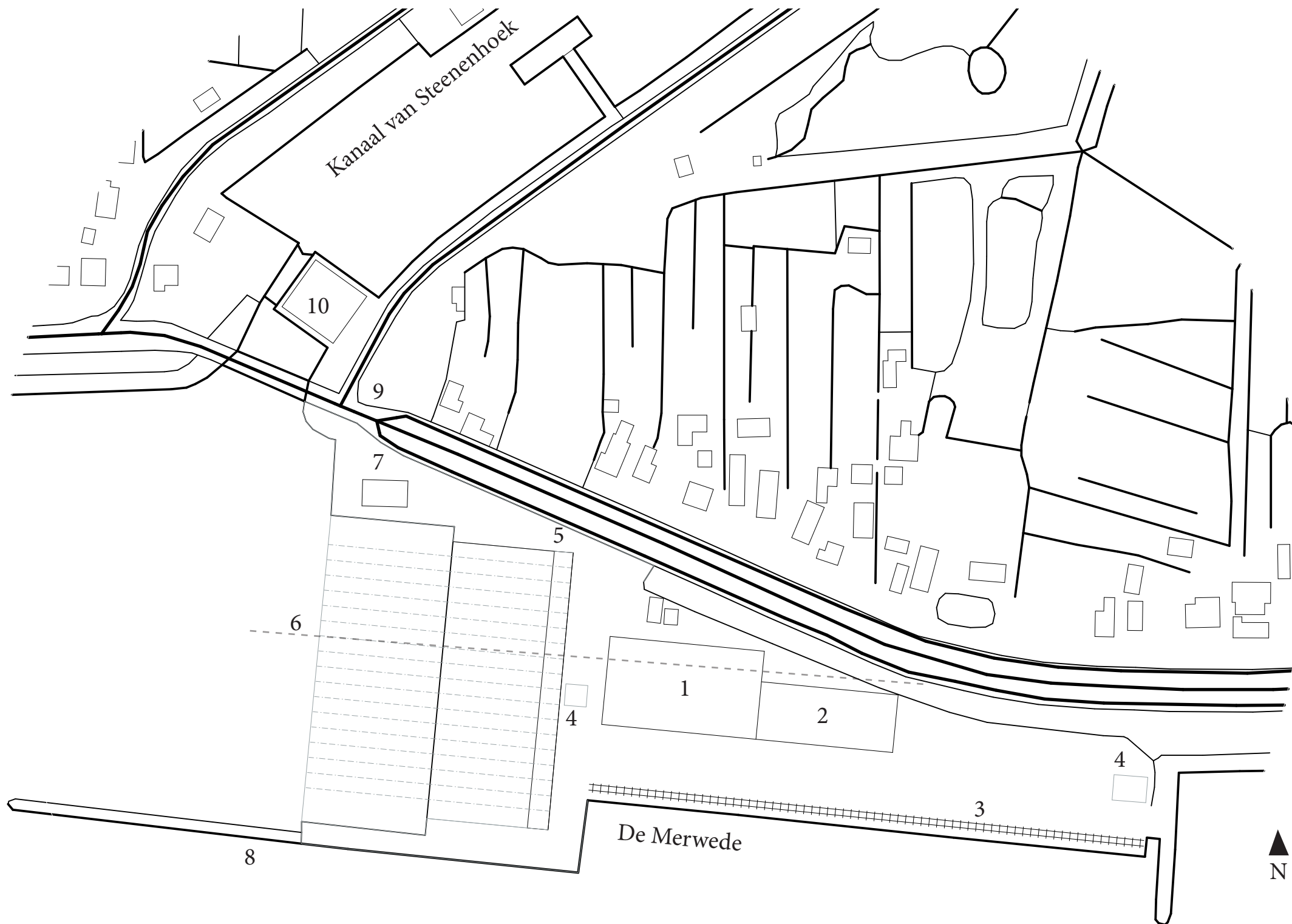
industrial interior

Future scenario

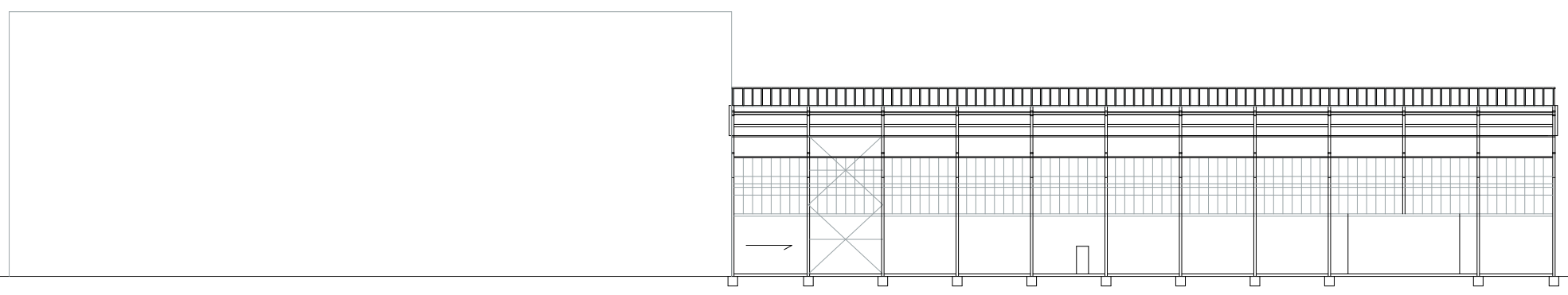
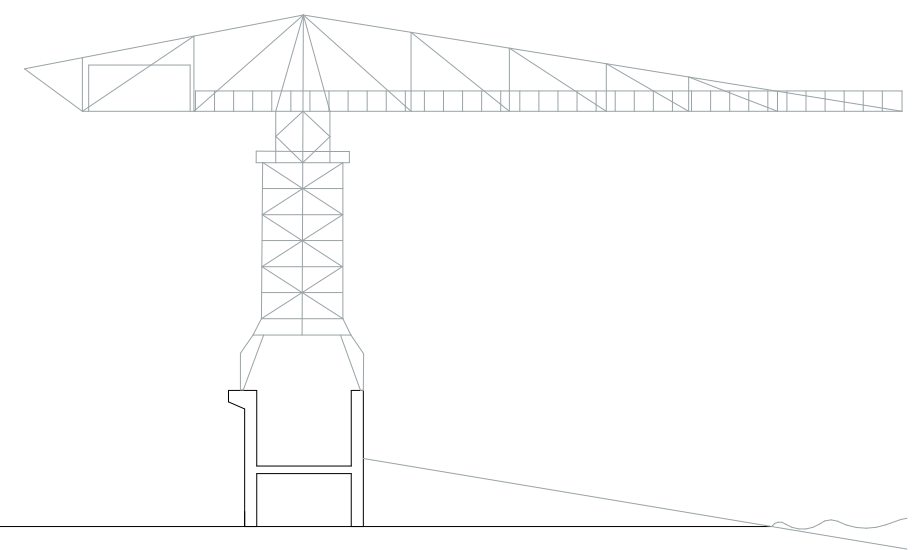


Vision





- 1. Welding Hall - 1952
- 2. Big hall - 2017
- 3. Railway -
- 4. Romneylood
- 5. Crane track
- 6. Slope
- 7. Office
- 8. Quay
- 9. Dike
- 10. Mr. Dr. G. Kolff Gemaal - *monument*

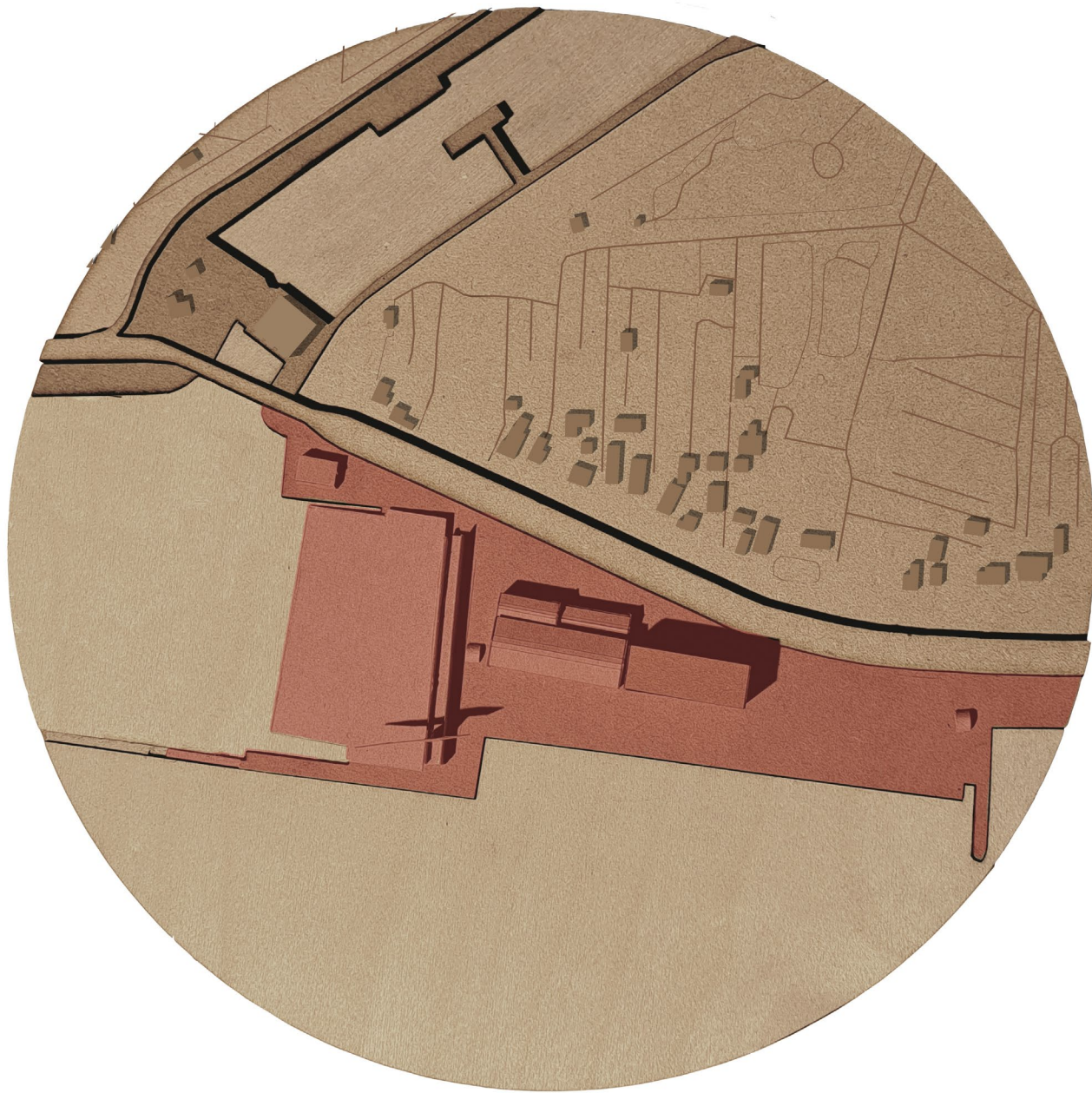


Current situation



Current situation

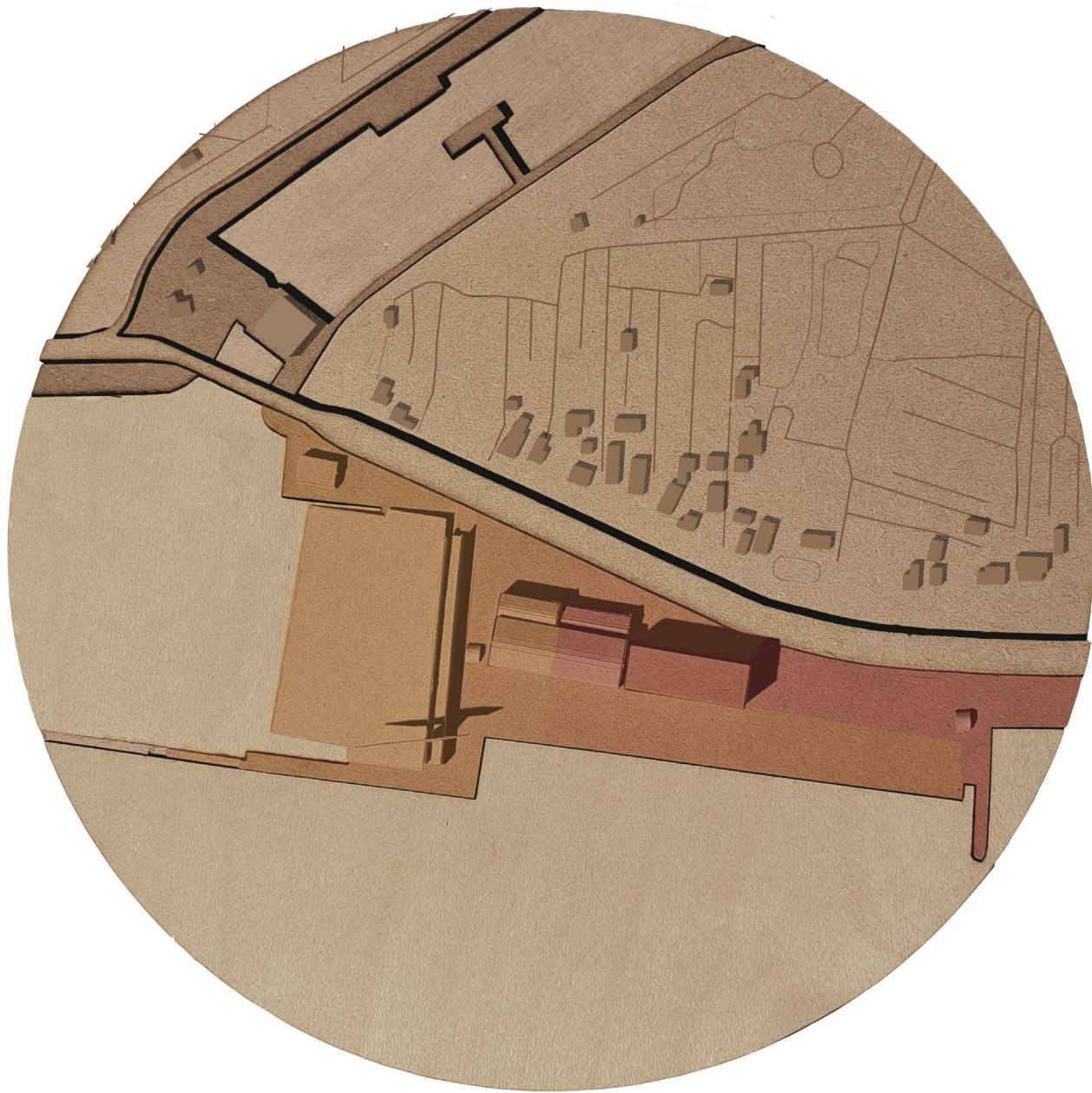




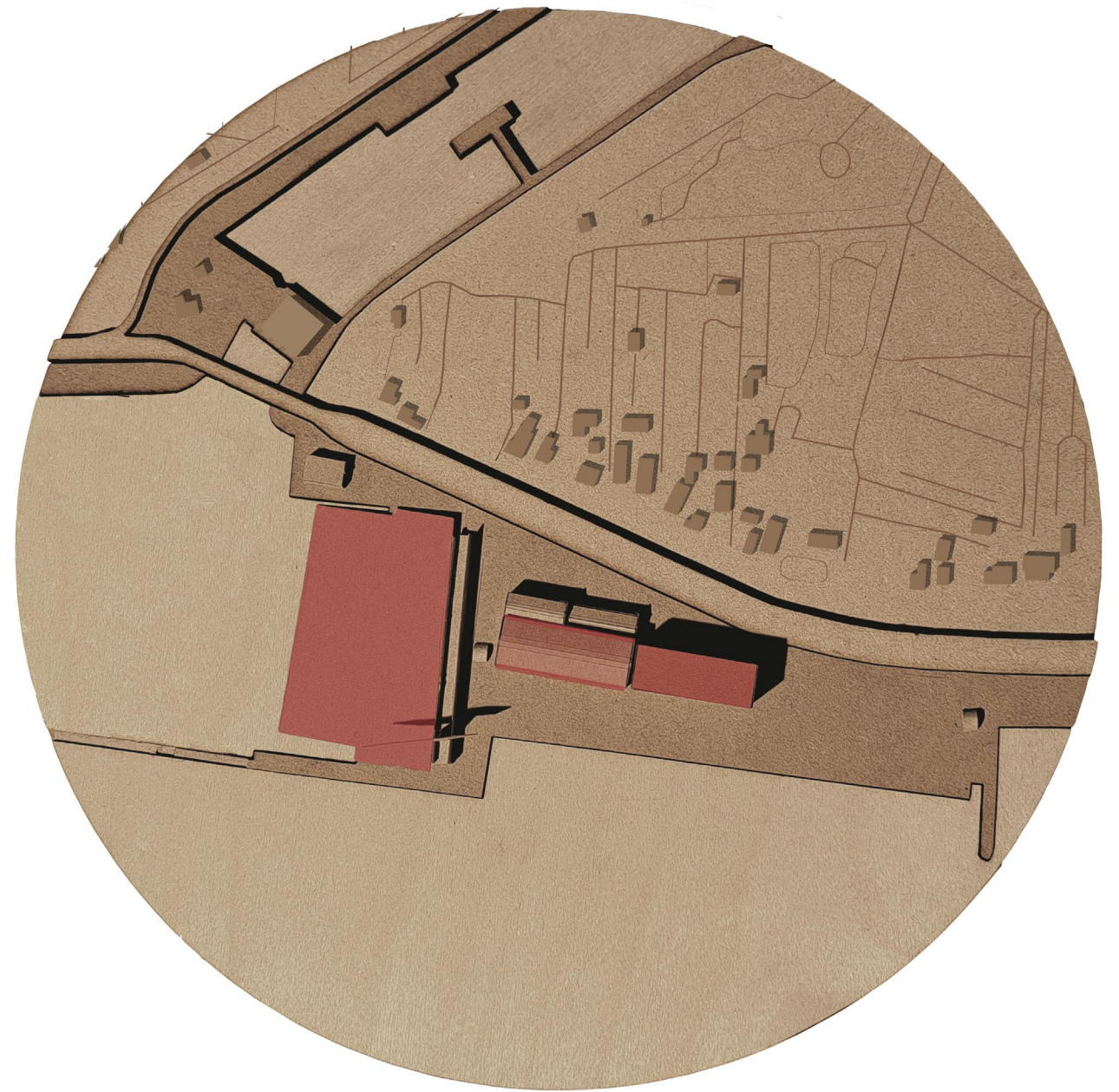
Municipal industrial site
Transformation



Inside the dyke



Zoning
transition from public to private



Demolition plan
Re-interpretation, re-use and remove

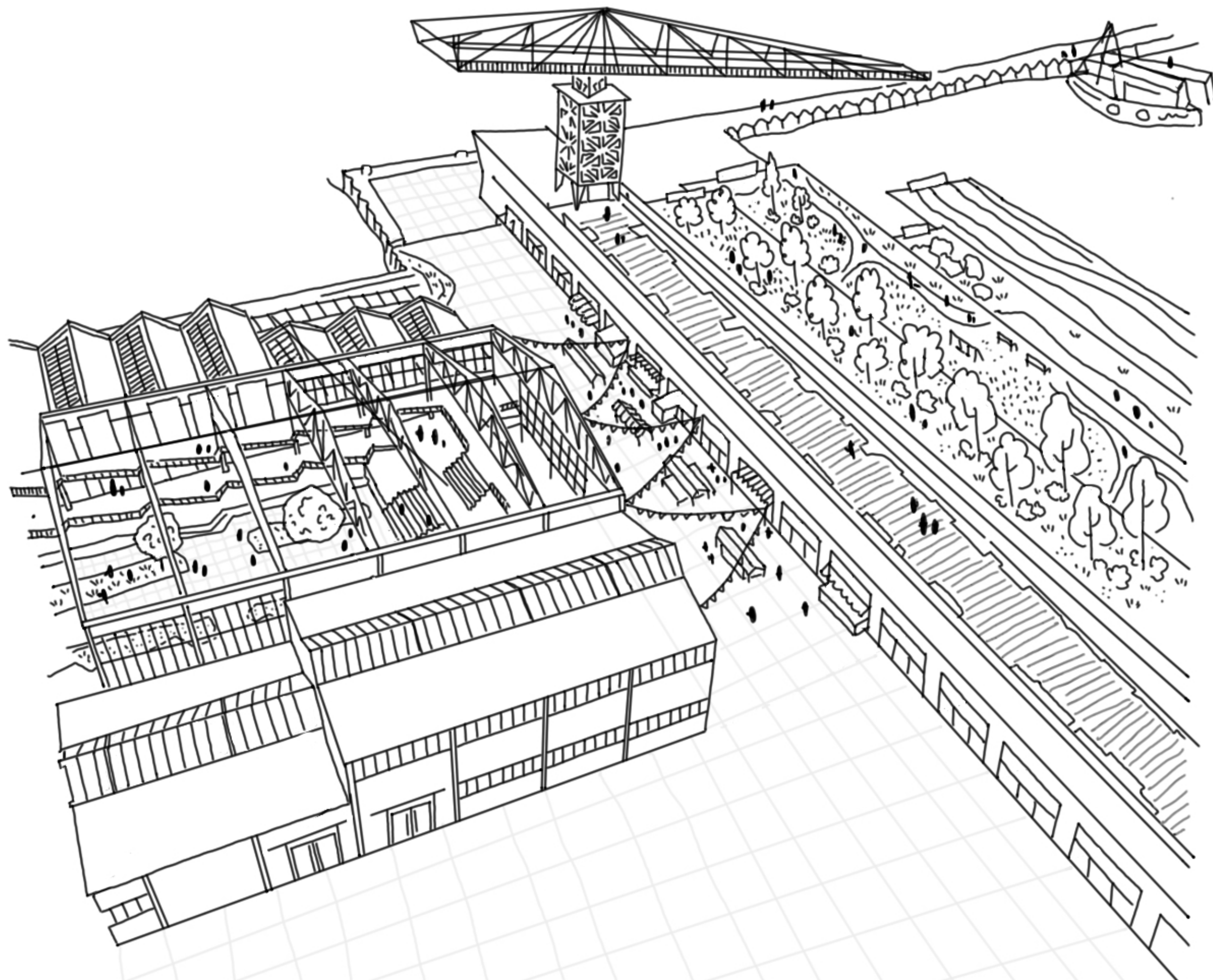


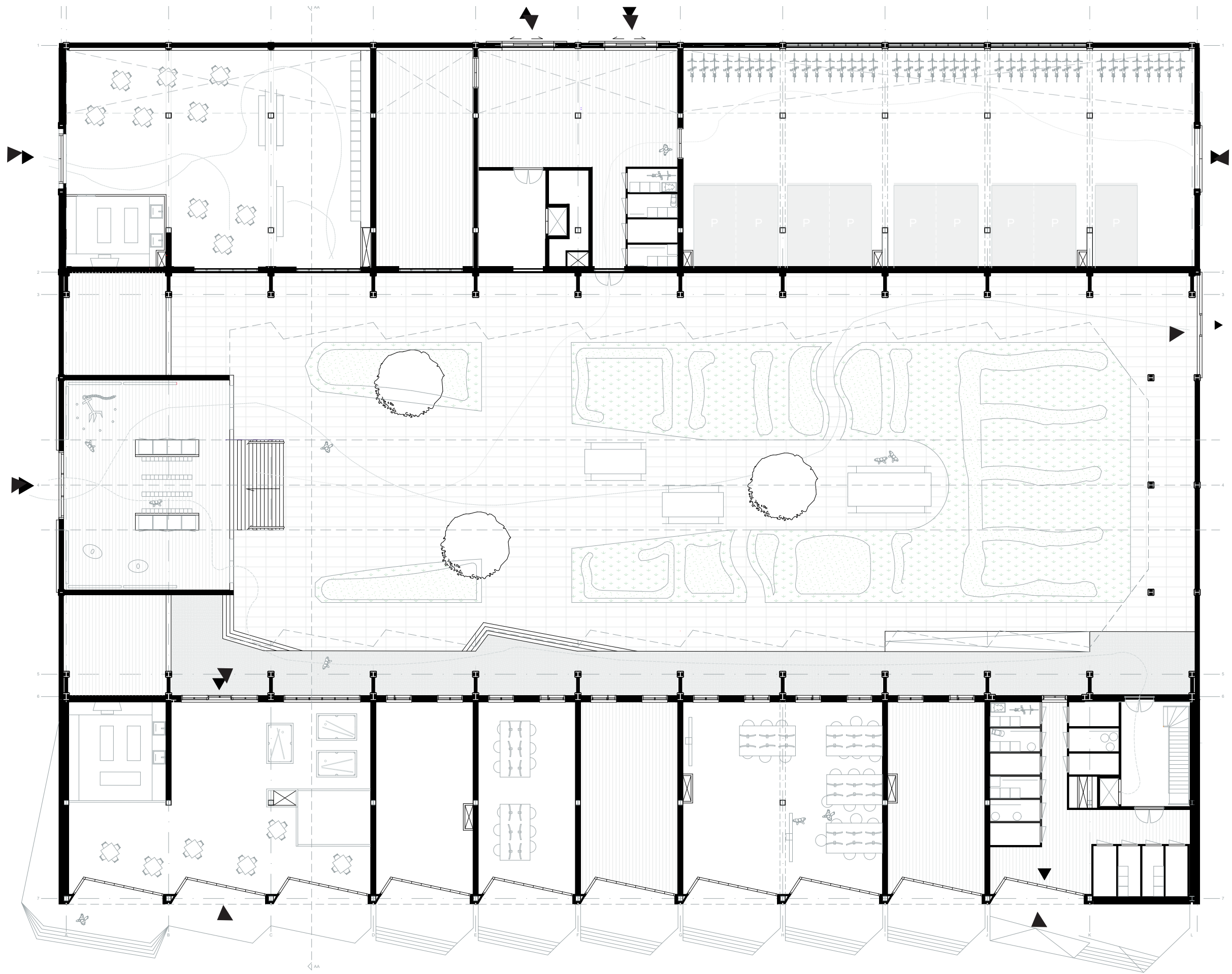
New buffer
as green connector along the river



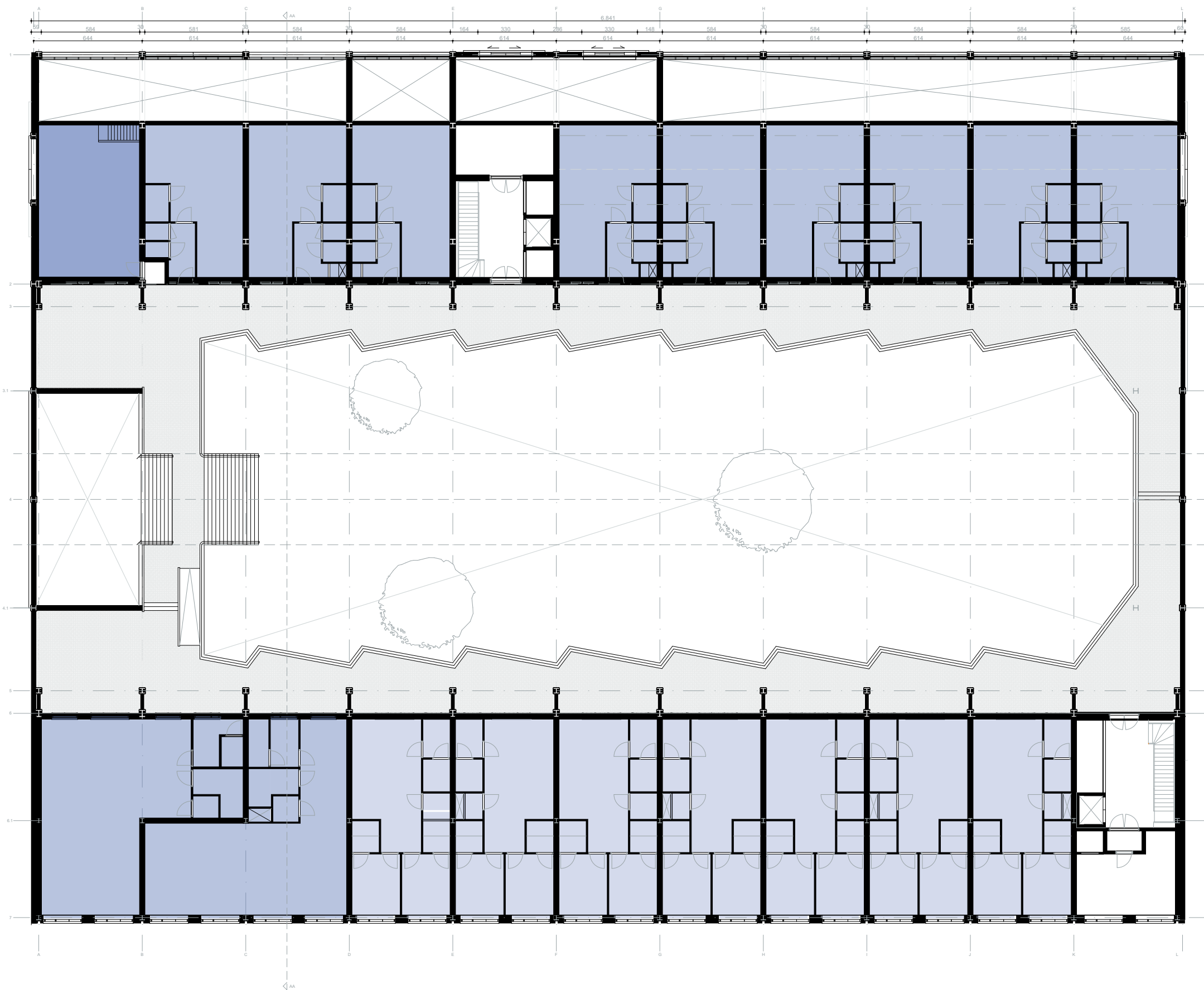
Connection of dyke with the water
and creating zones



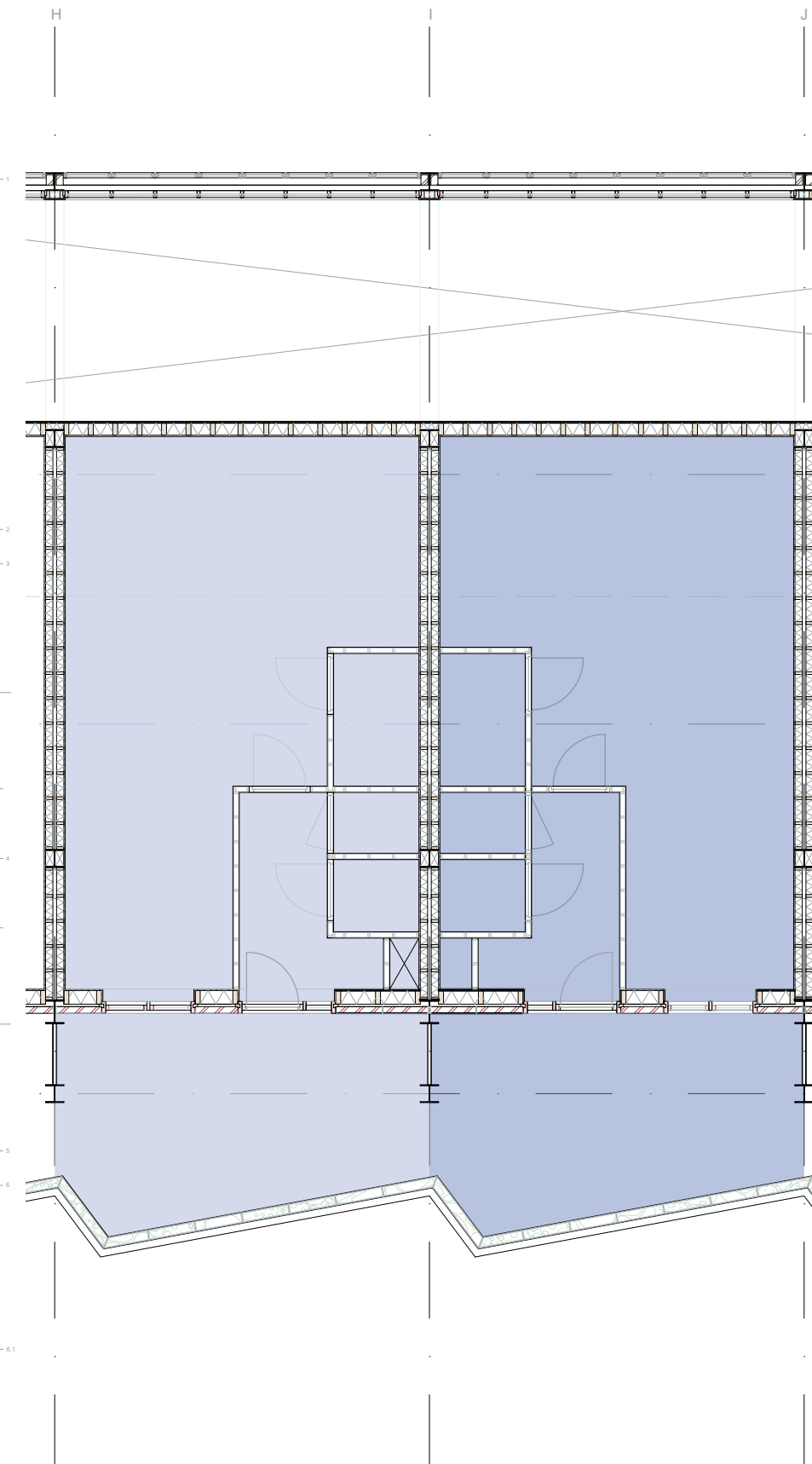




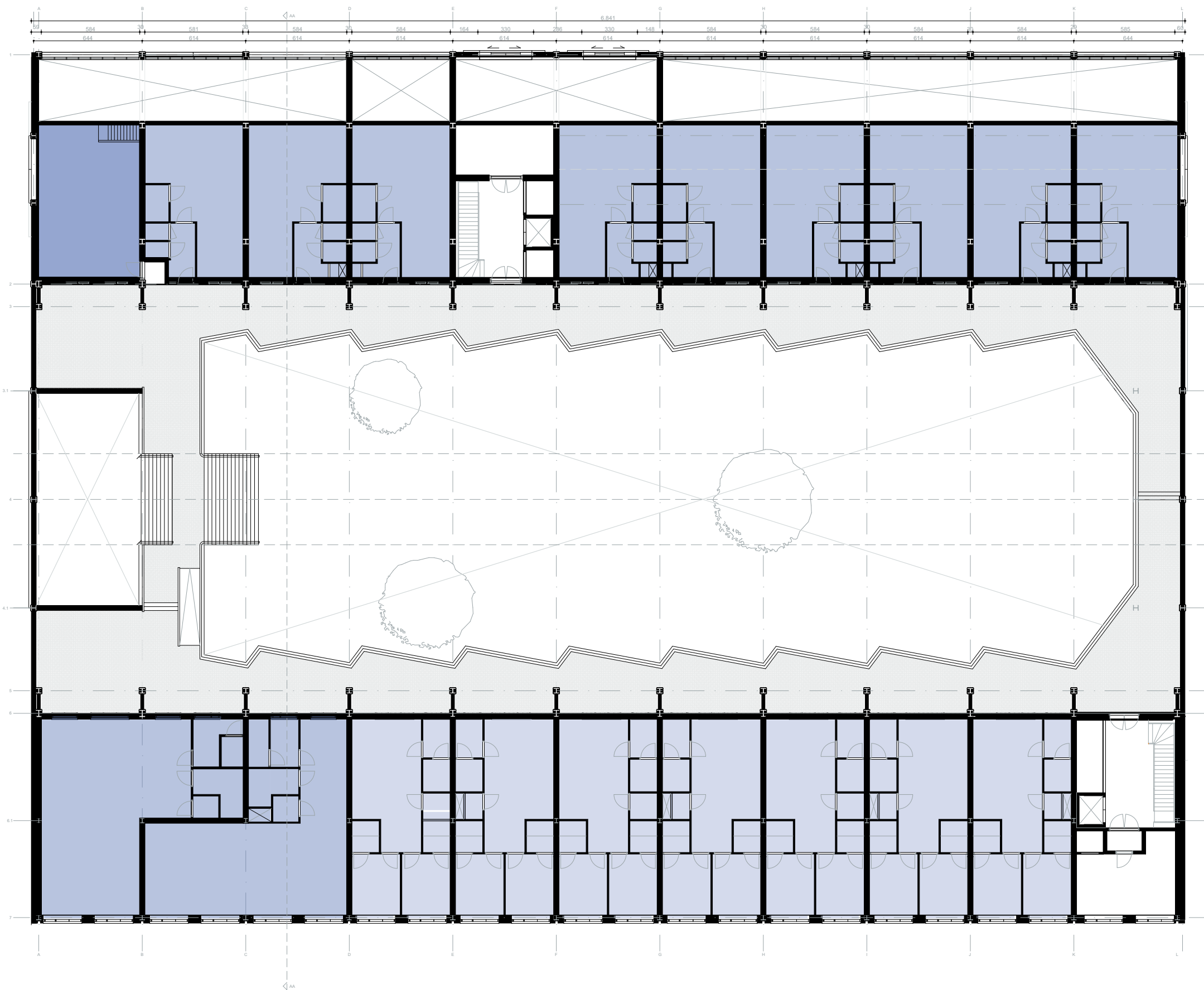
Ground floor
1:250



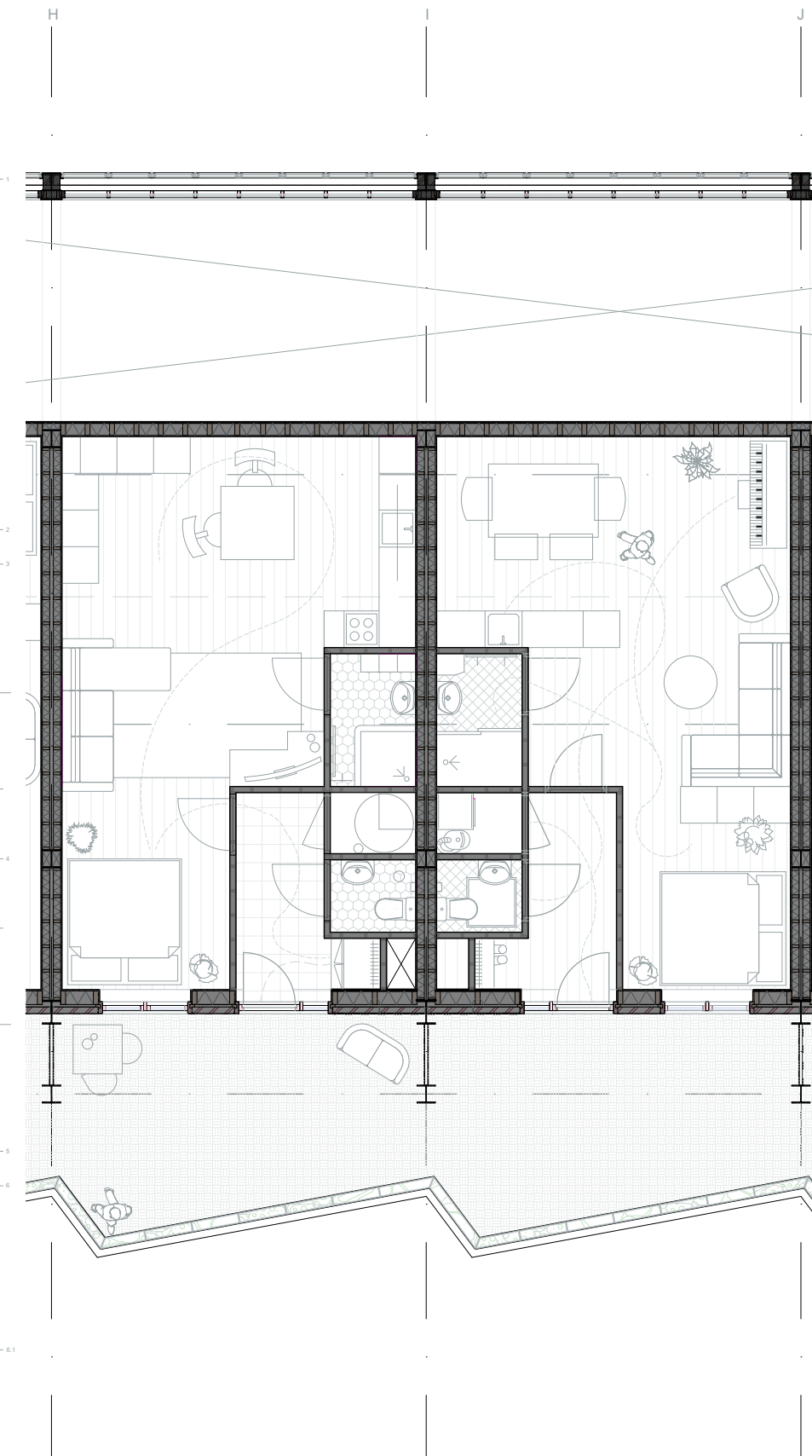
First floor
1:250



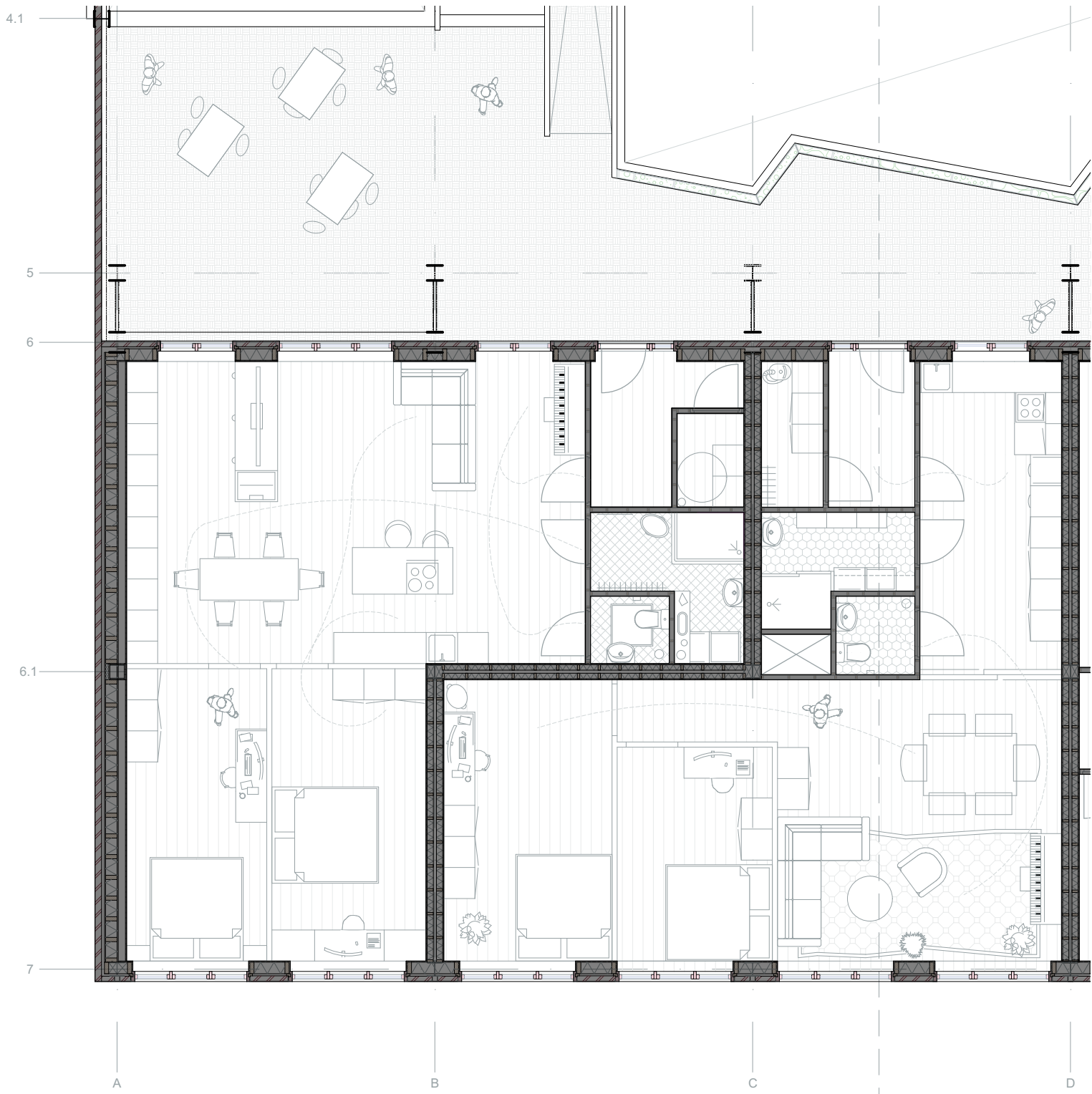
53 m2
1:100



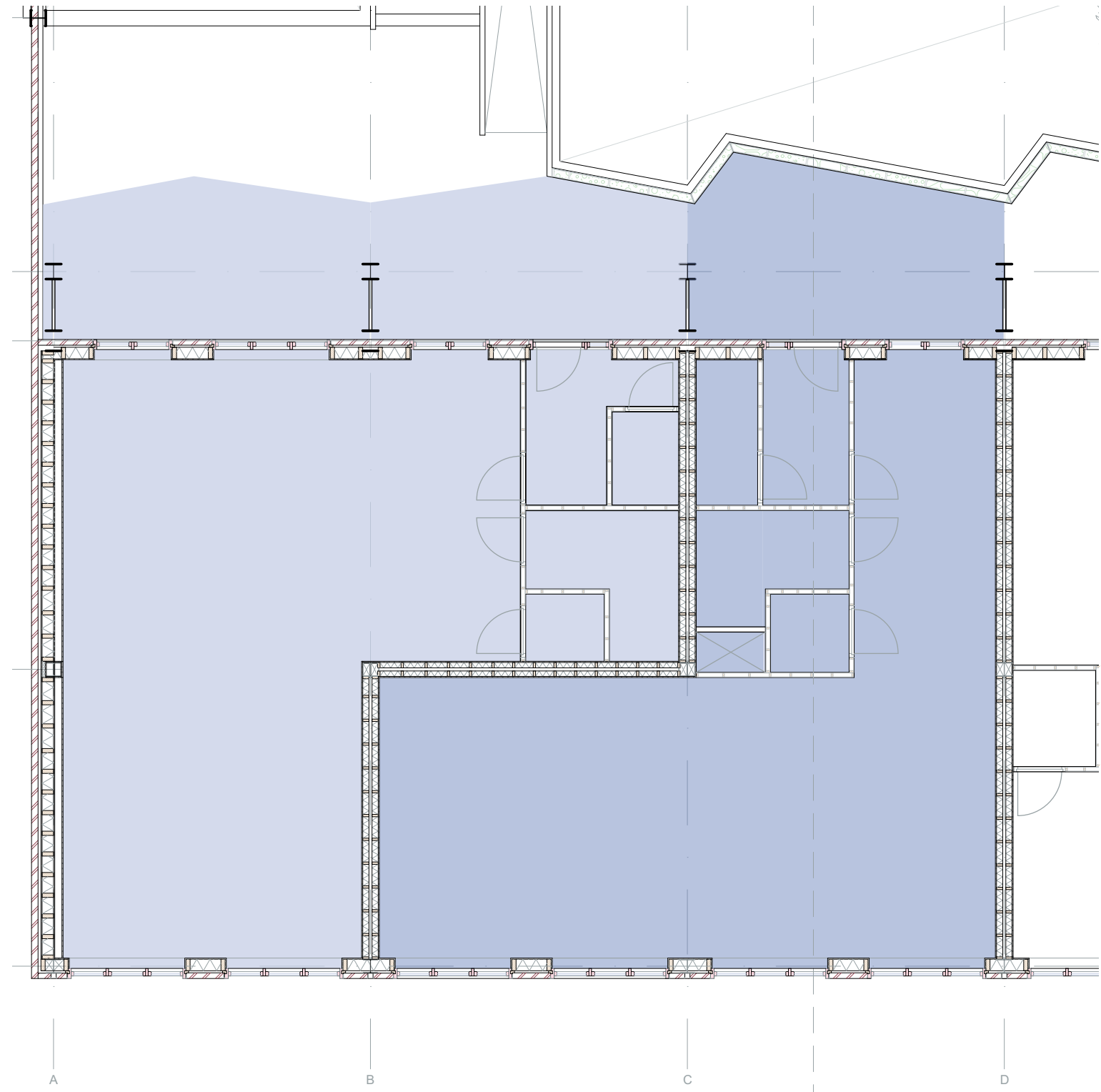
First floor
1:250



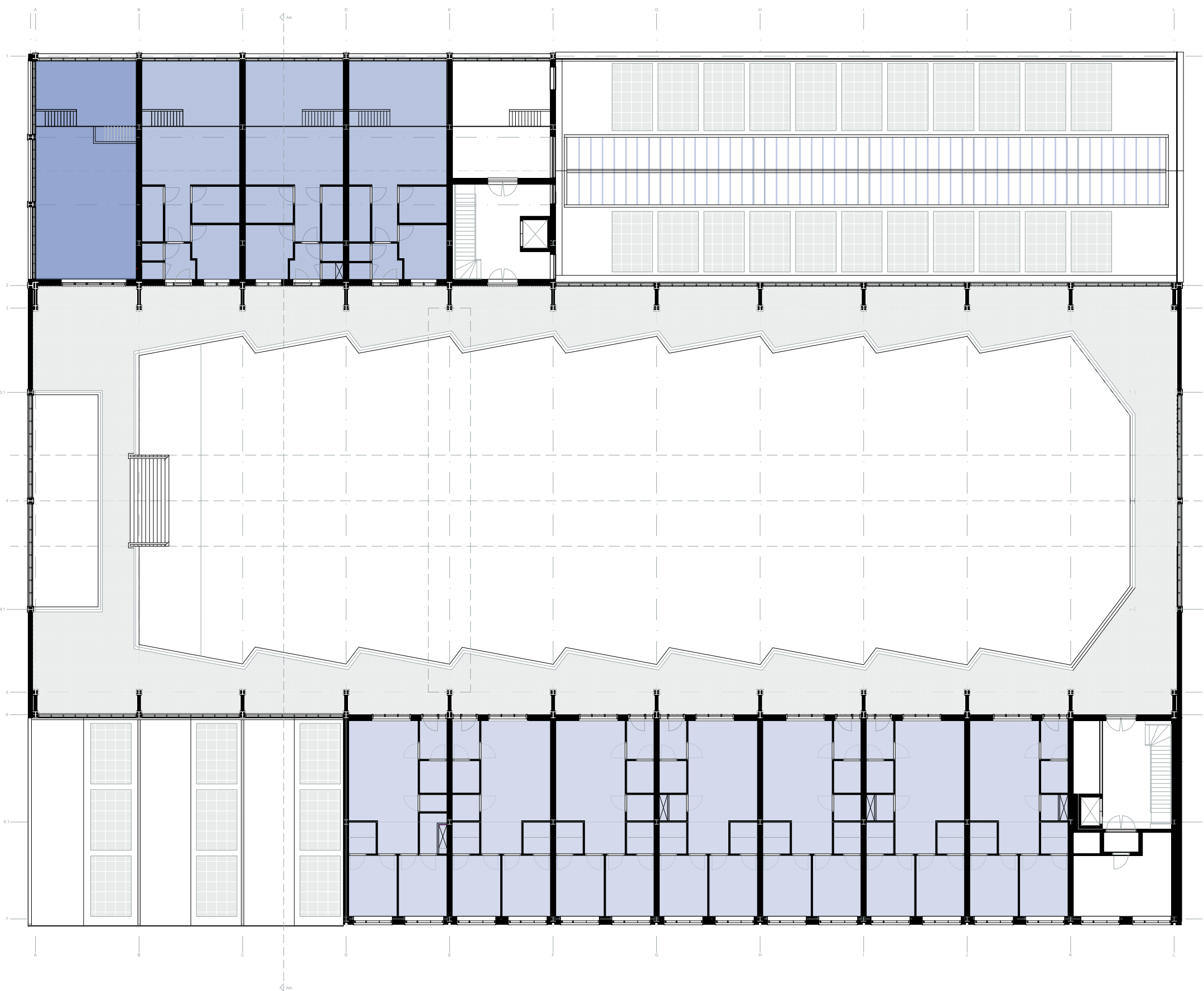
53 m2
1:100



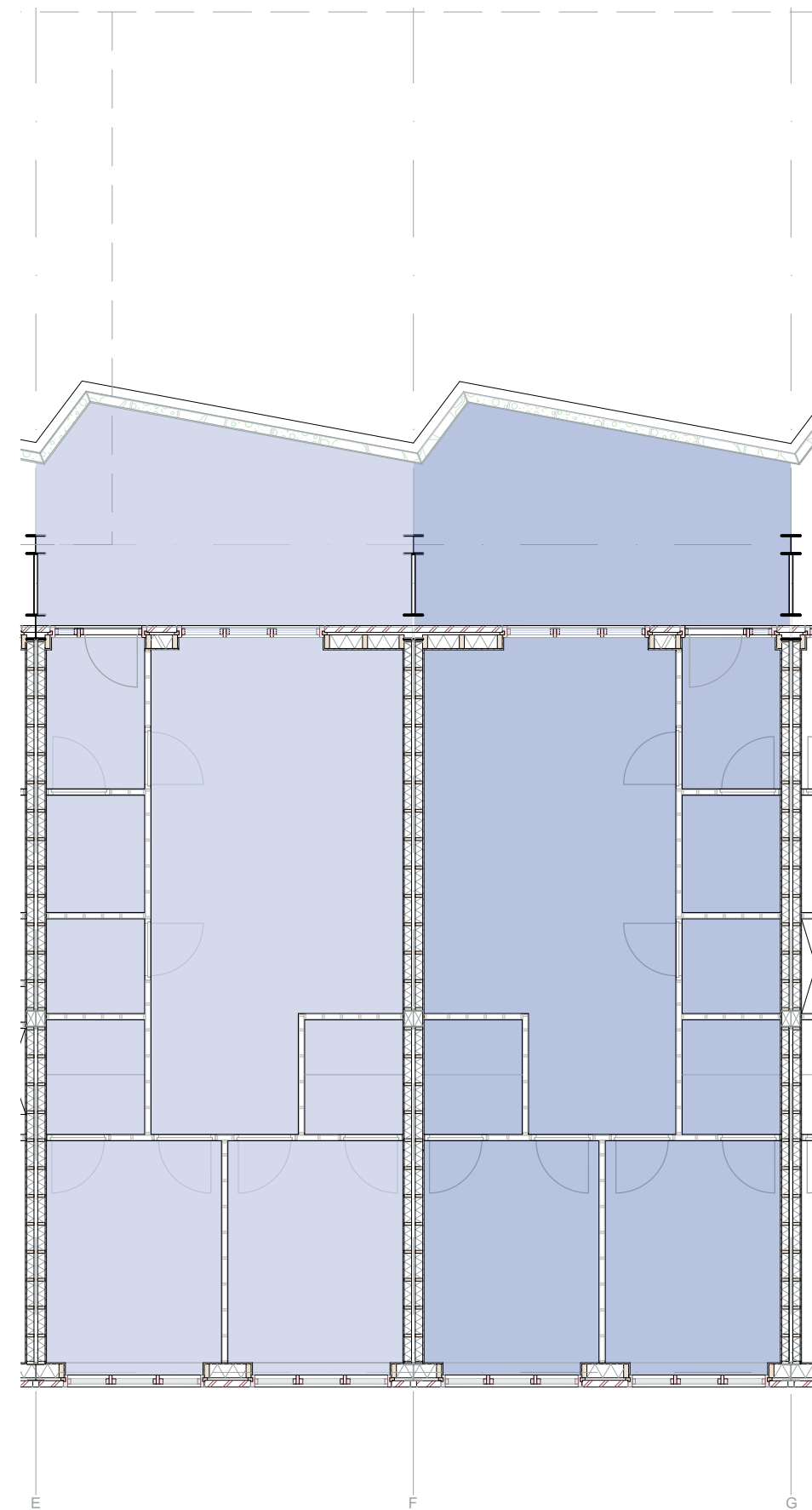
100 m2
1:100



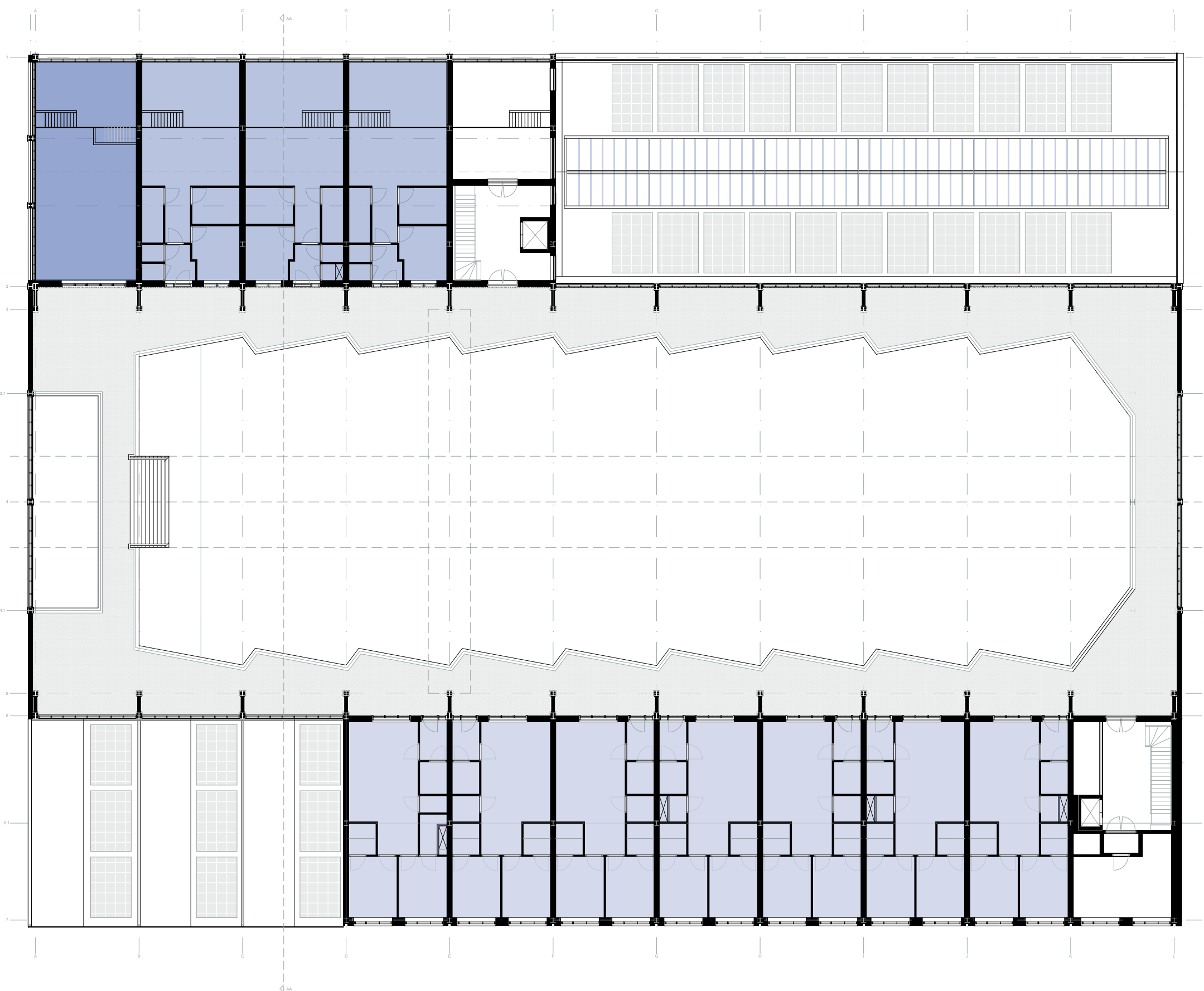
100 m2
1:100



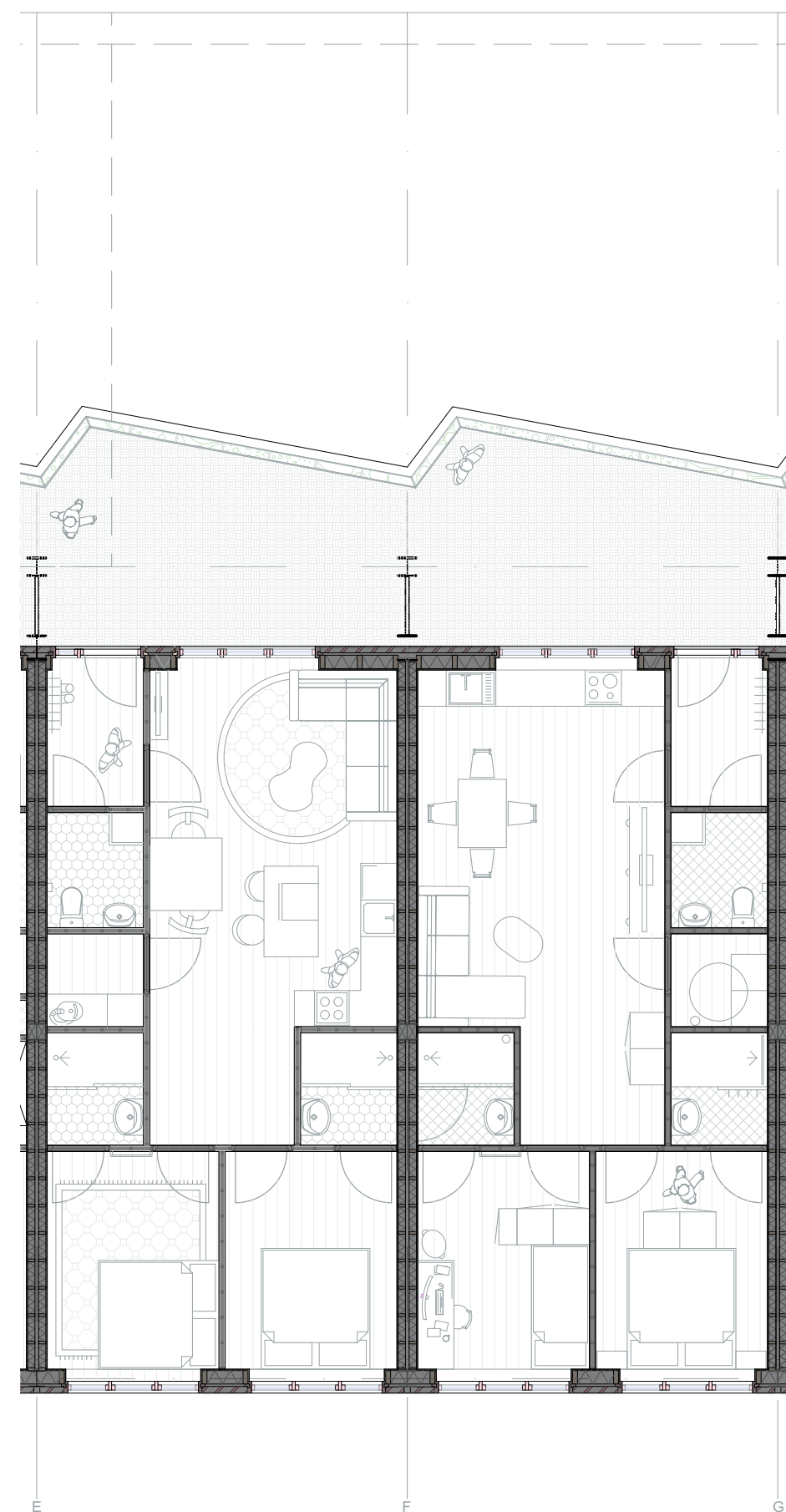
Second floor
1:250



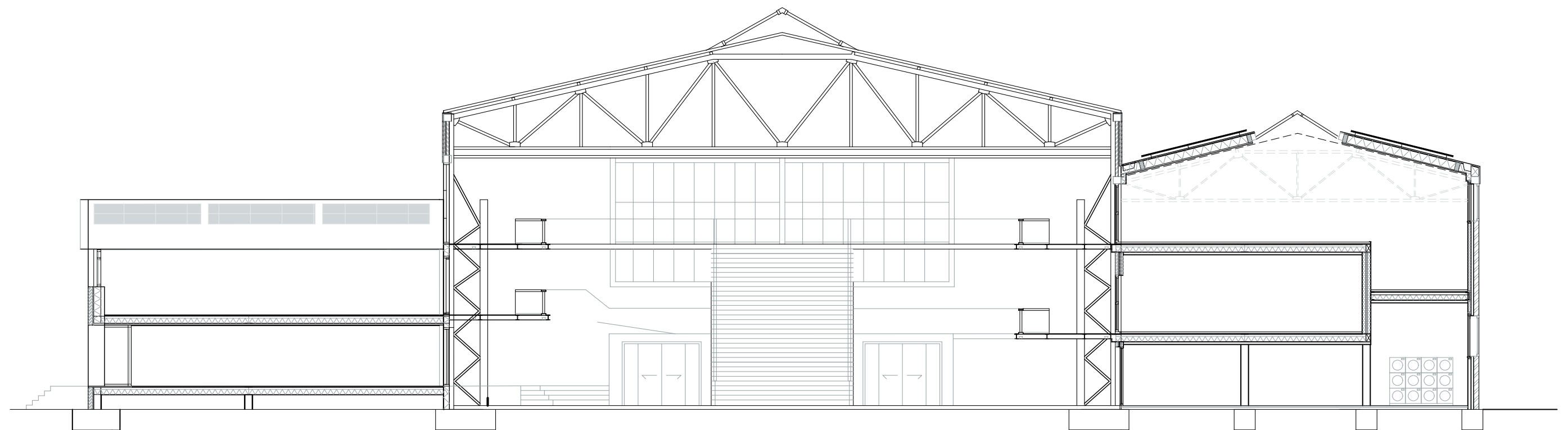
67 m²
1:100



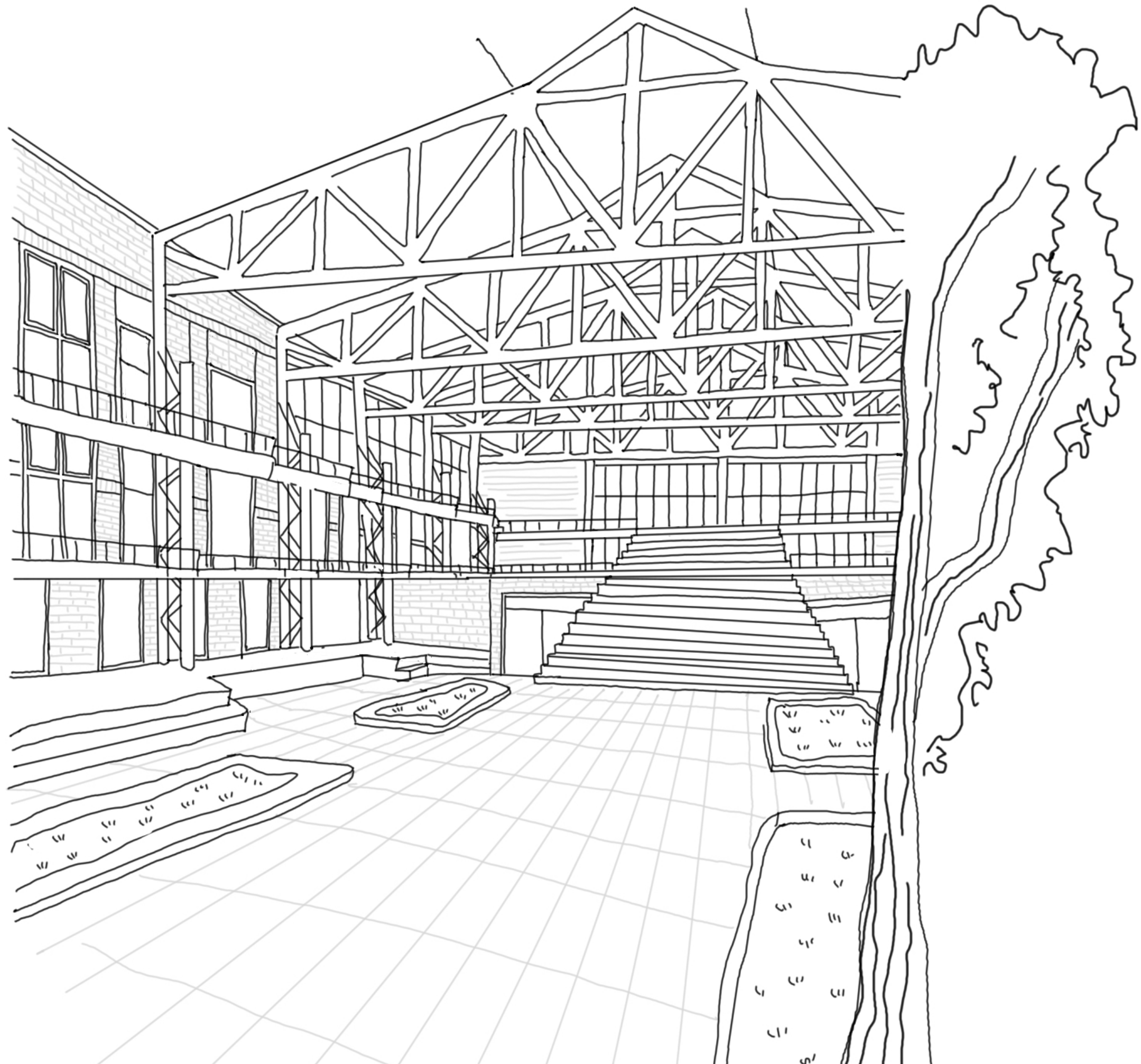
Second floor
1:250

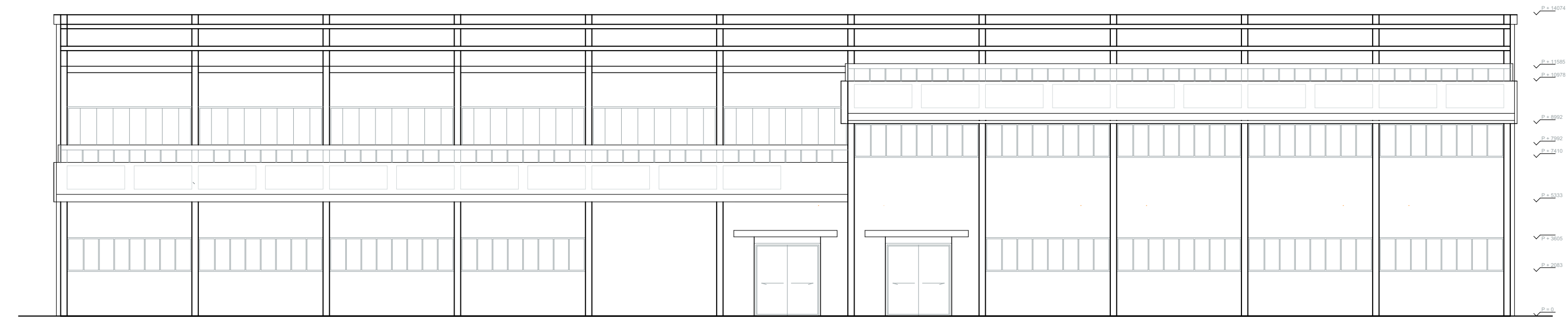
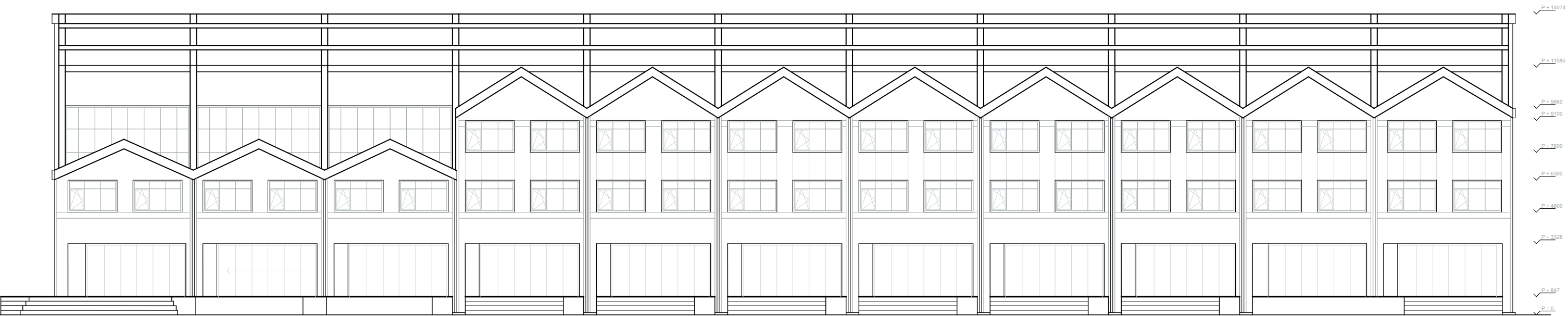


67 m²
1:100

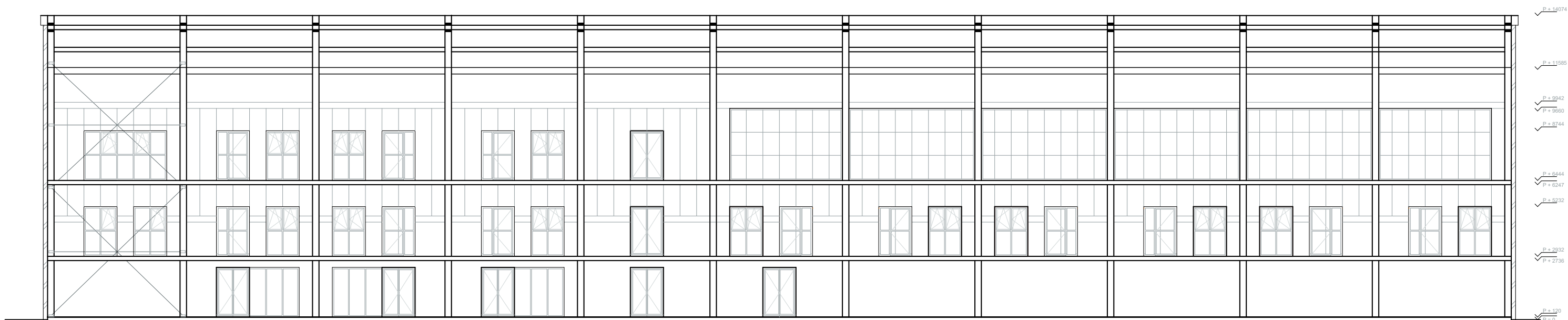


Section
1:100

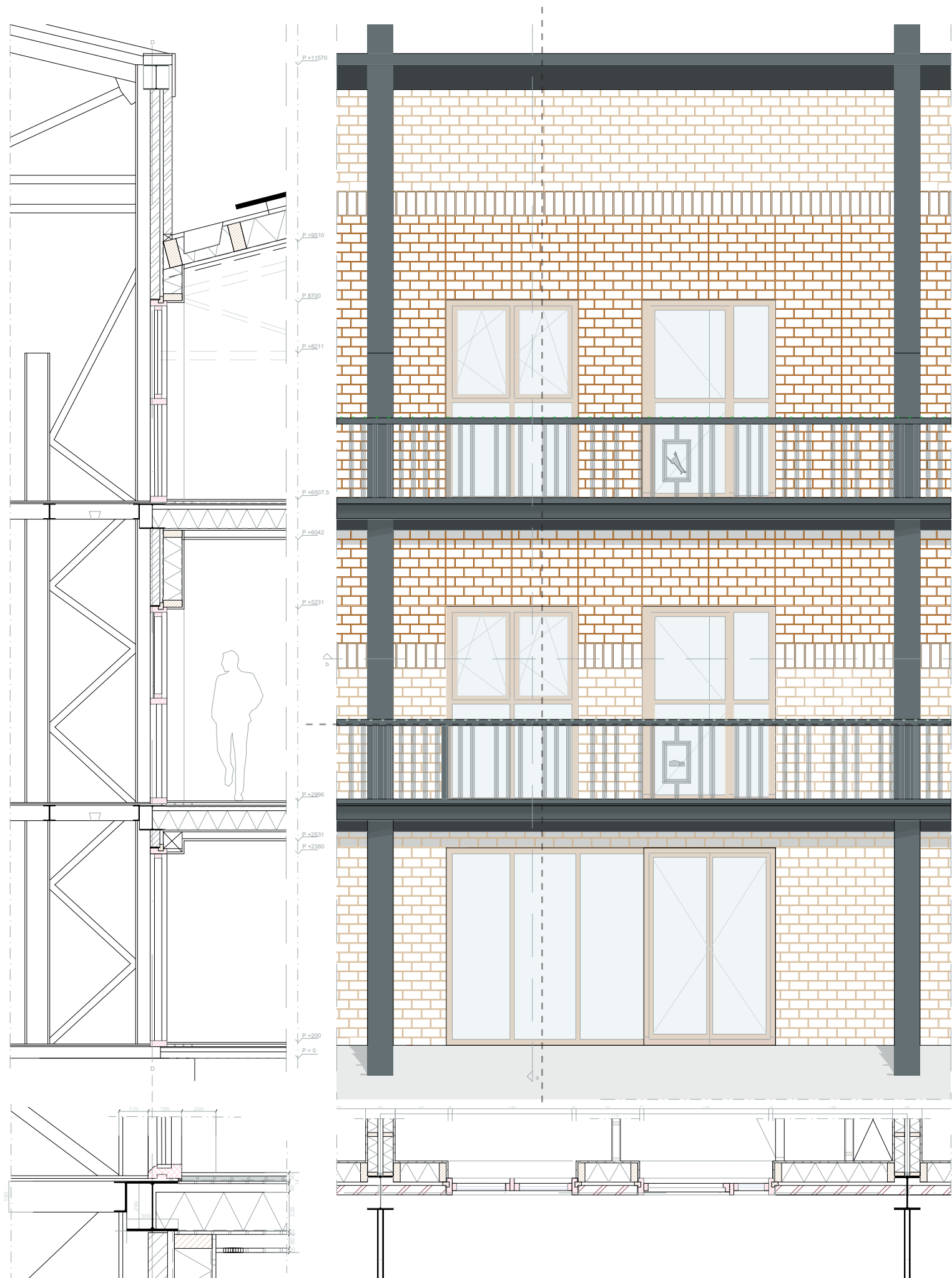




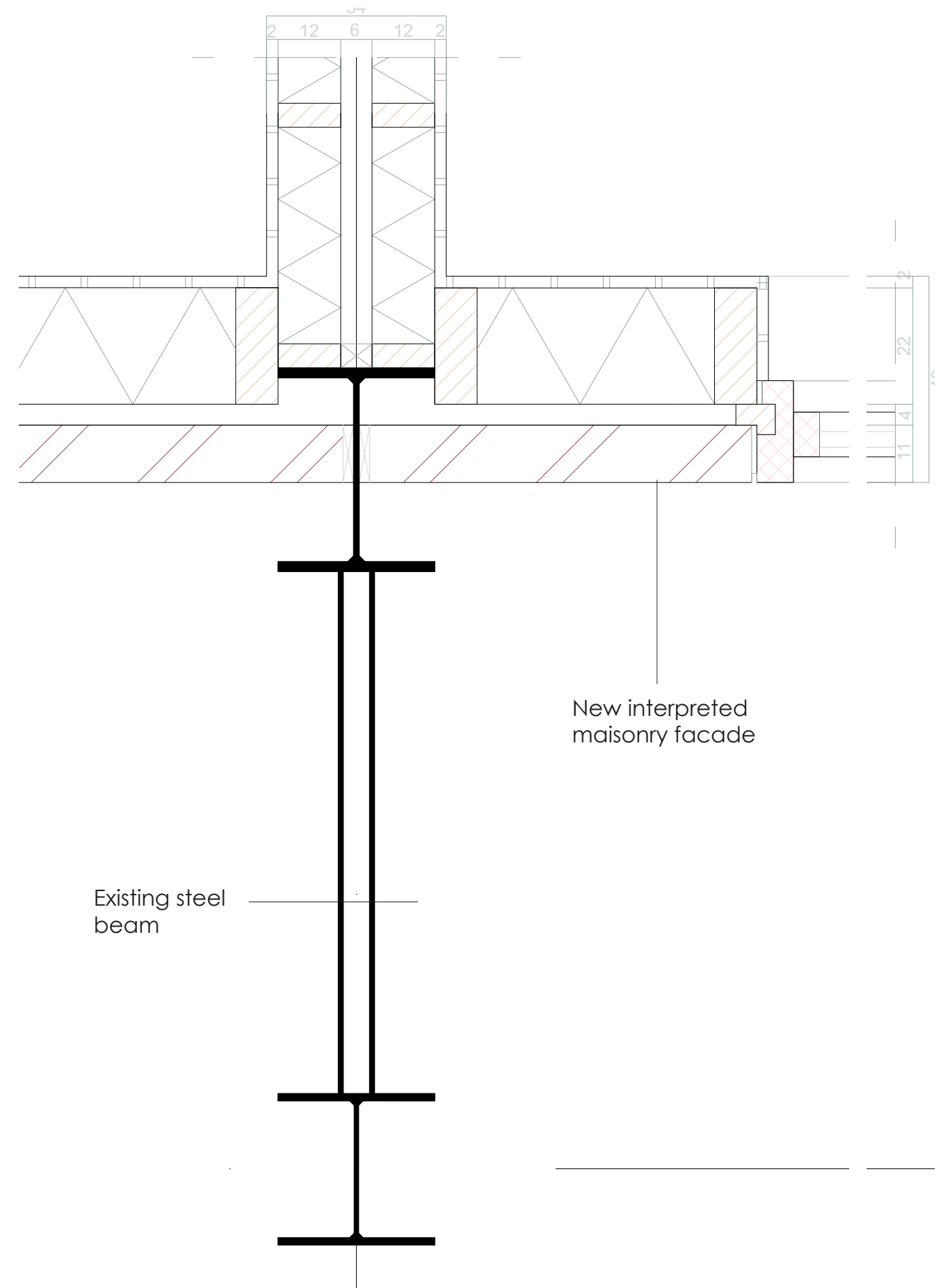
Facade
1:200

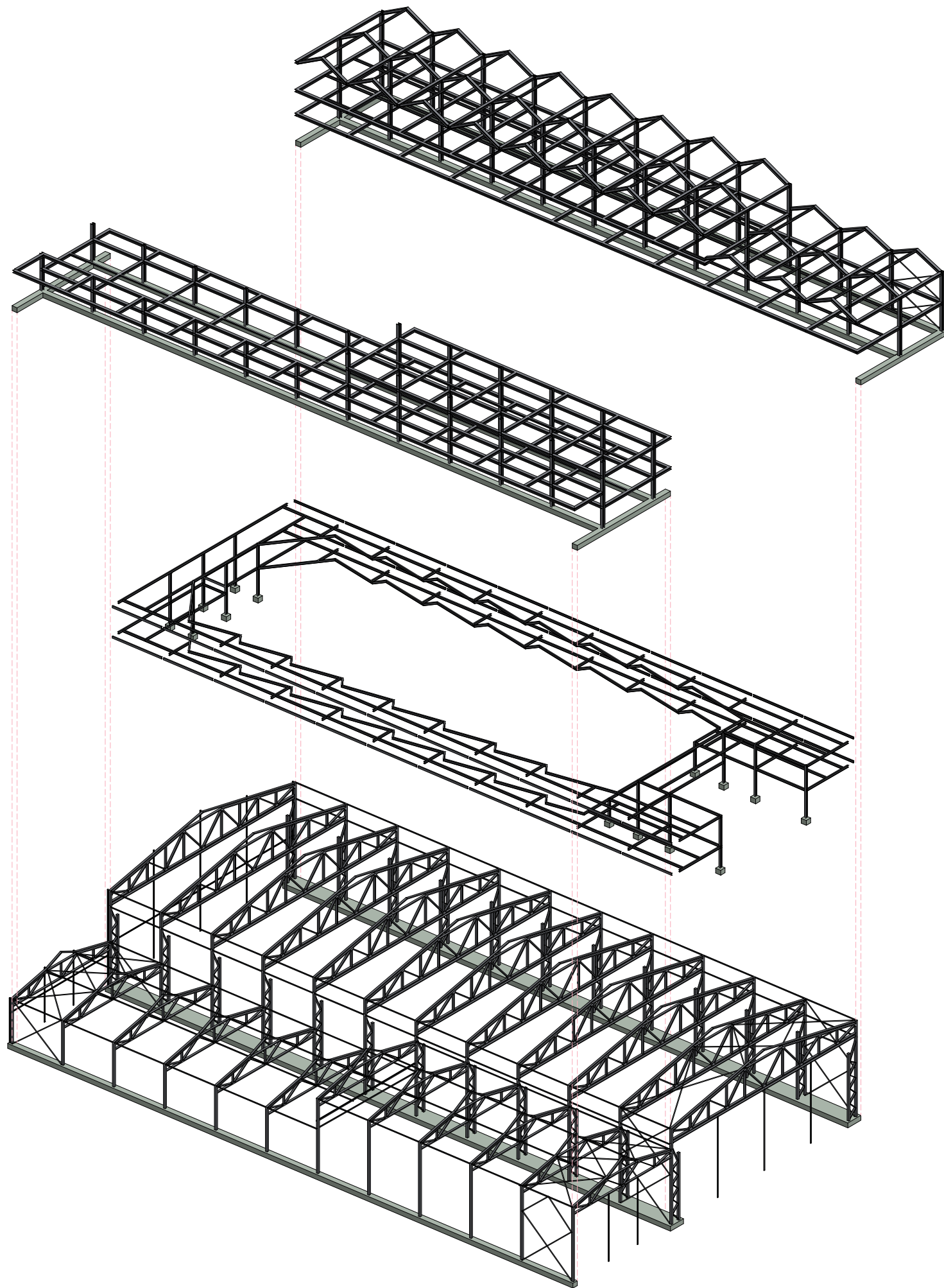


Courtyard facade
1:200



Connection Courtyard with dwellings - horizontal 1:10





Connection Courtyard with dwellings - vertical
1:10

