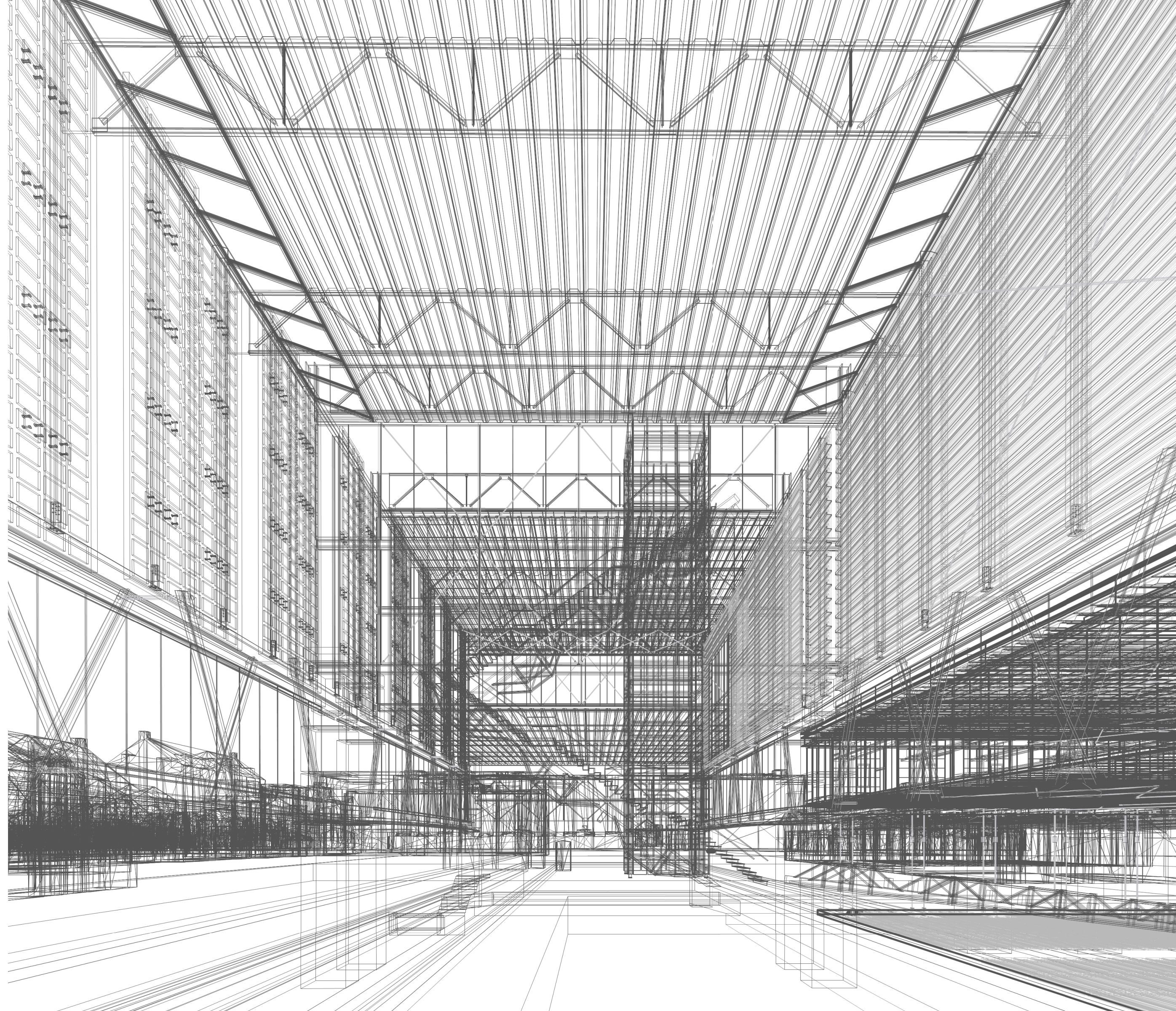


Urban Paraphrasis

Imagining urban transformations through
localized material reuse and citizen
empowerment

P5 Presentation
Alex Kirschstein
Urban Architecture Graduation Studio
TU Delft

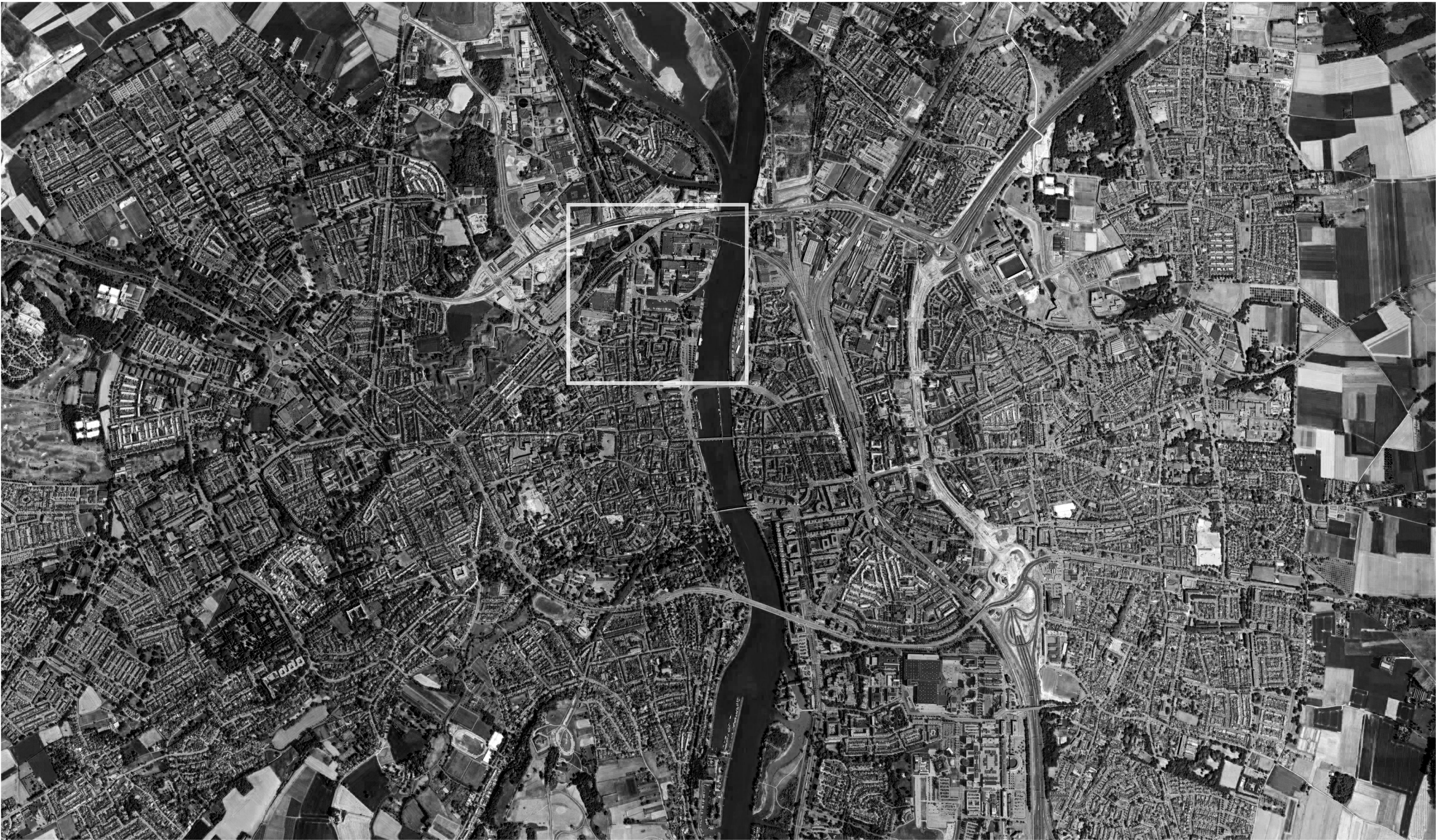
June 2022



Architectural Impressions: **View from Bassin**



Architectural Impressions: **View from Bassin**



Architectural Impressions: **View from Bassin**



Urban Plan: **Design Principles**



Urban Plan: **Design Principles**

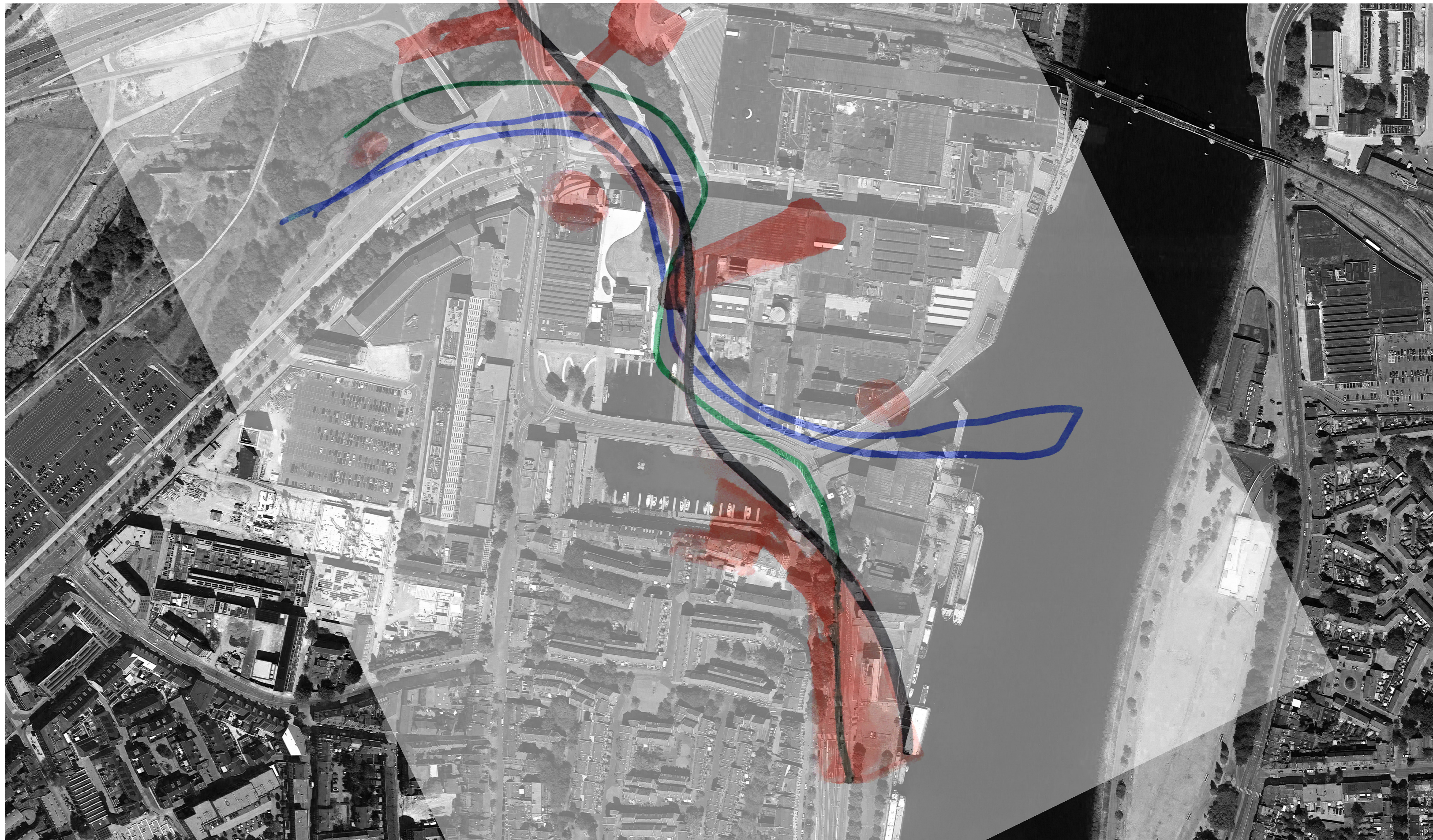


Ecology & Biodiversity

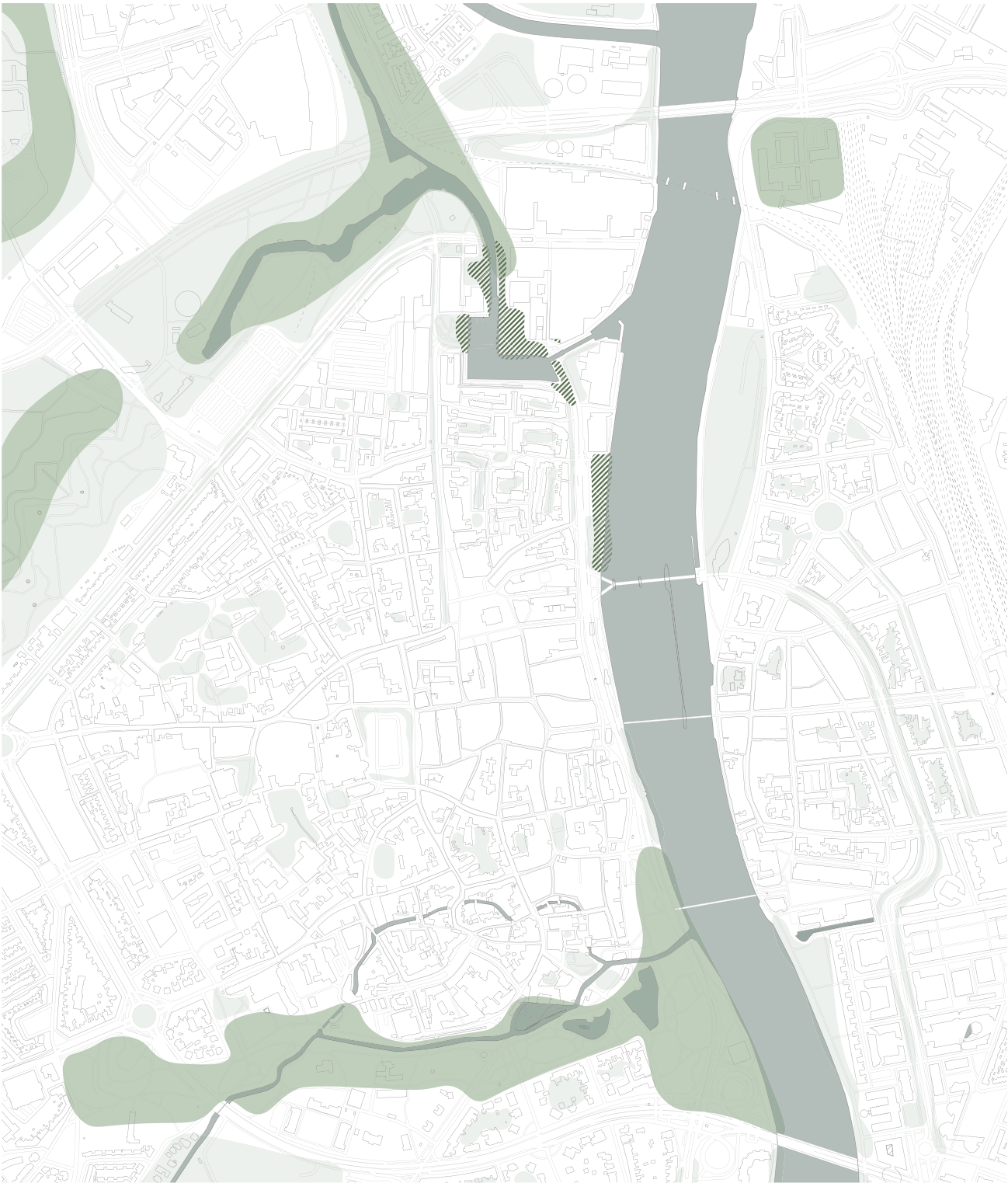
Mobility

Cultural Identity

Architectural Impressions: **View from Bassin**

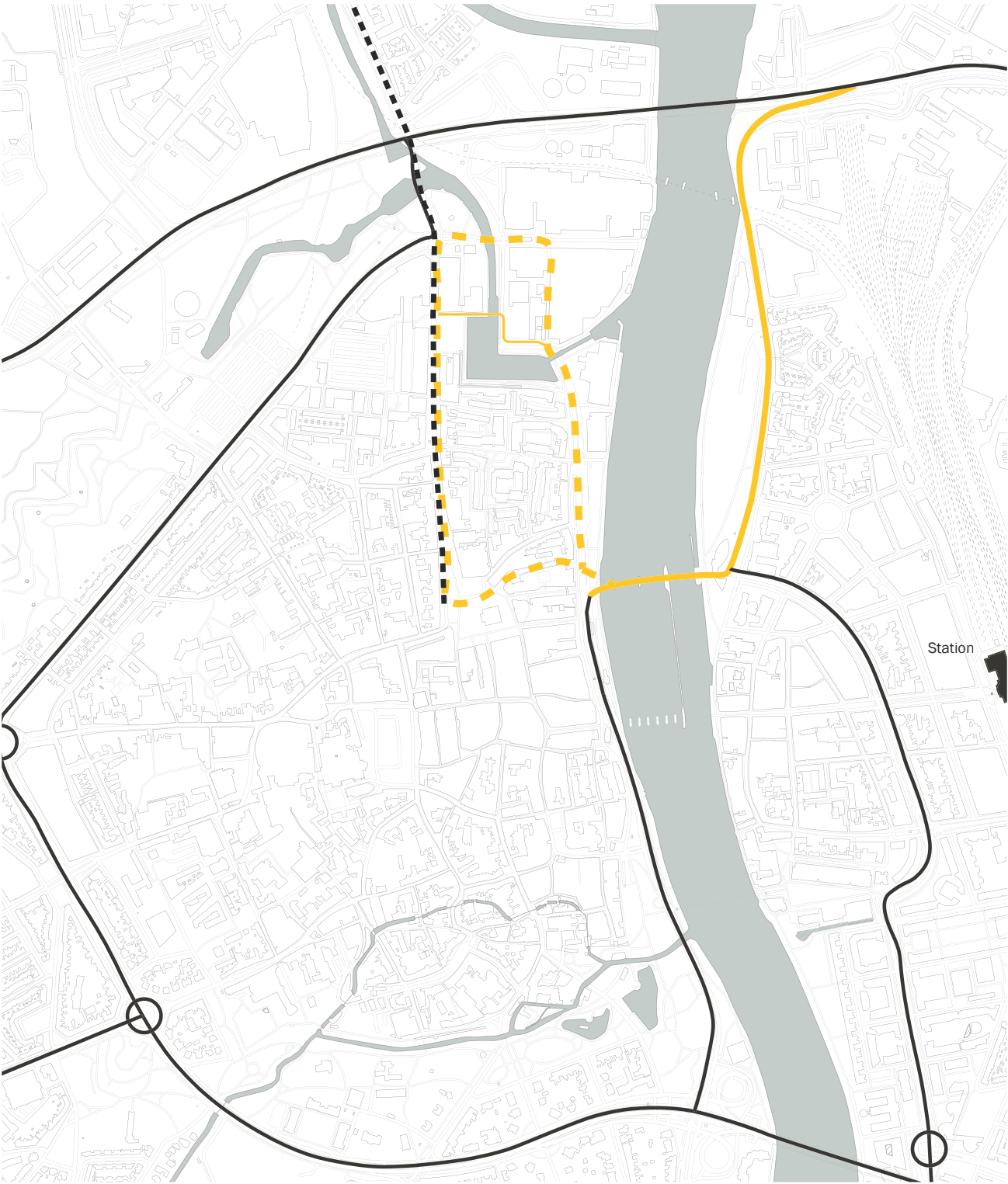


Urban Plan: **Design Principles**



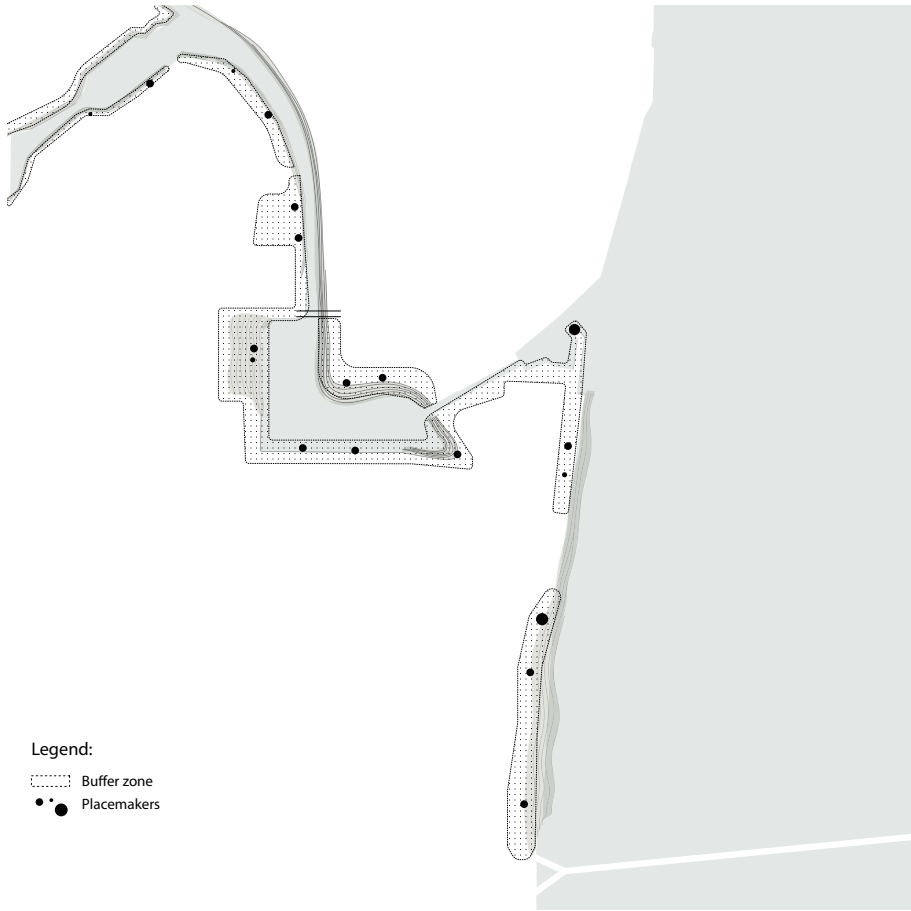
Mapping Ecology

Urban Plan: **Design Principles**

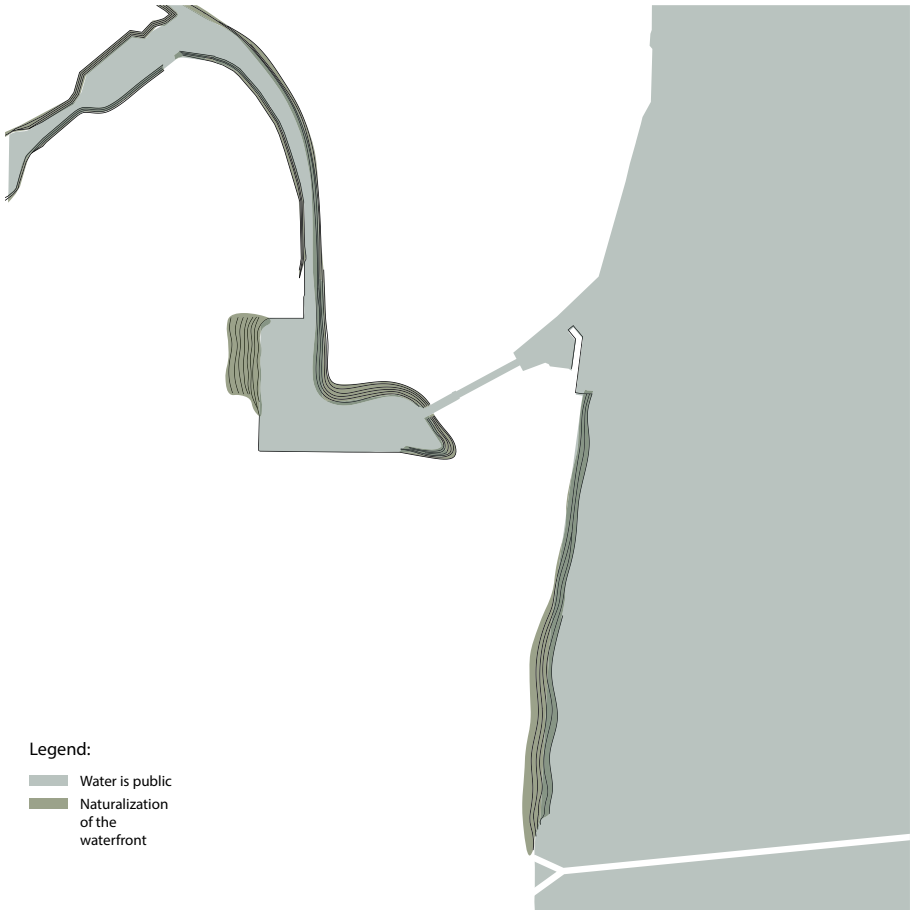


Connectivity

Urban Plan: **Design Principles**



Public Grounds
& Placemakers



Renaturalization
of Waterbodies



Demolition /
Deconstruction

Urban Plan: **Overview**

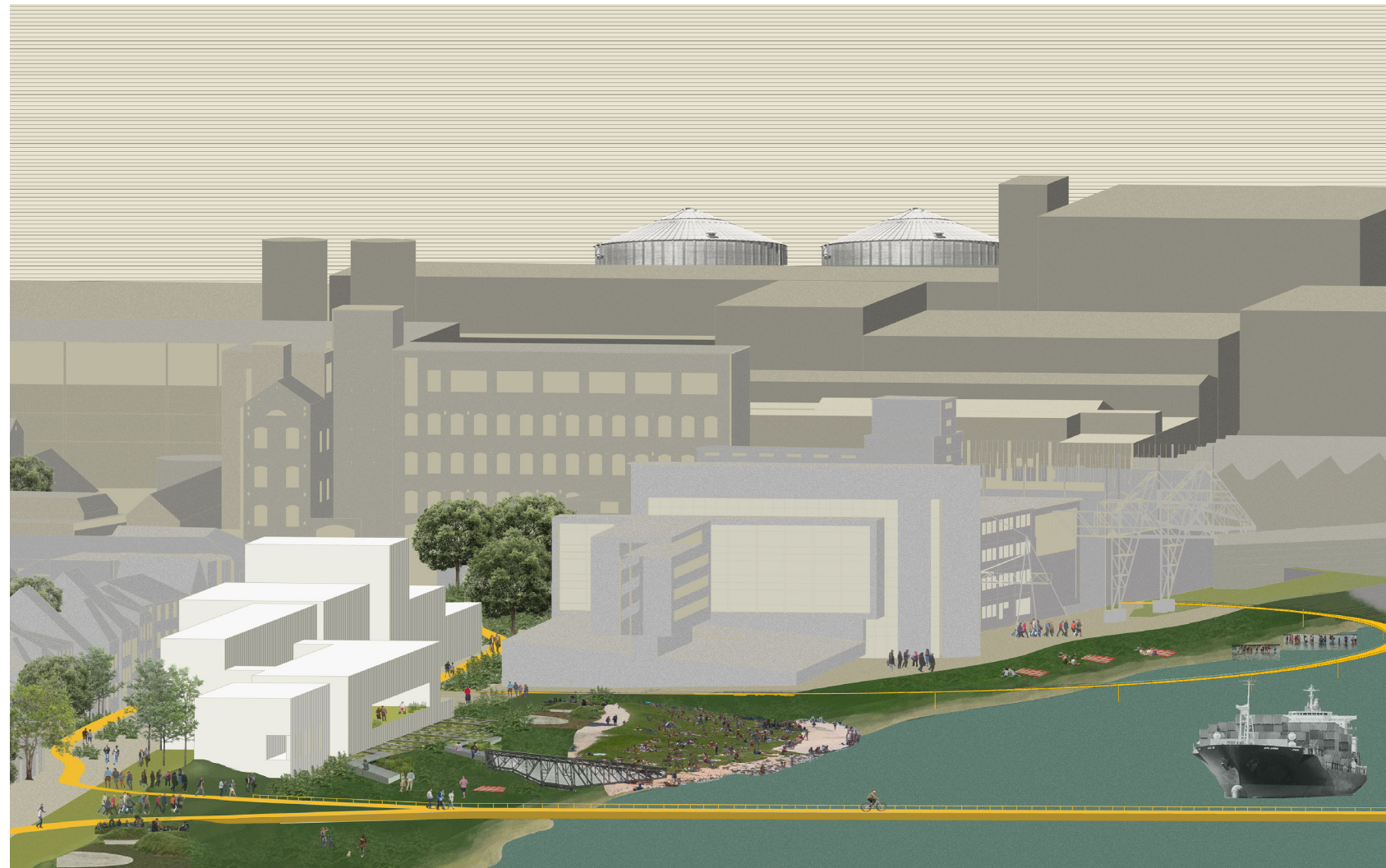


Urban Proposal

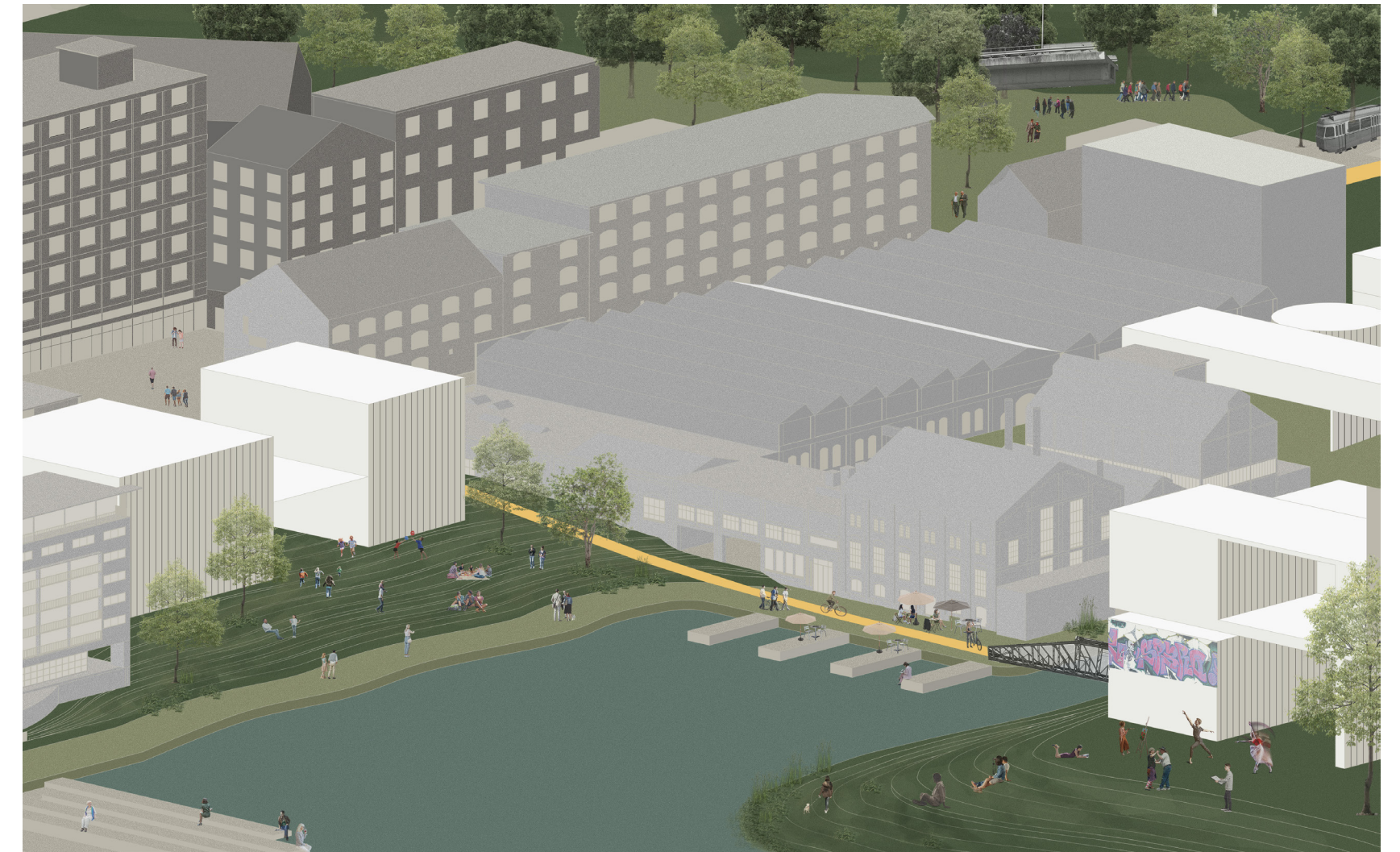
Urban Plan: **Placemakers**



Urban Plan: **Renaturalized Water Fronts**



Maas Riverfront



Bassin

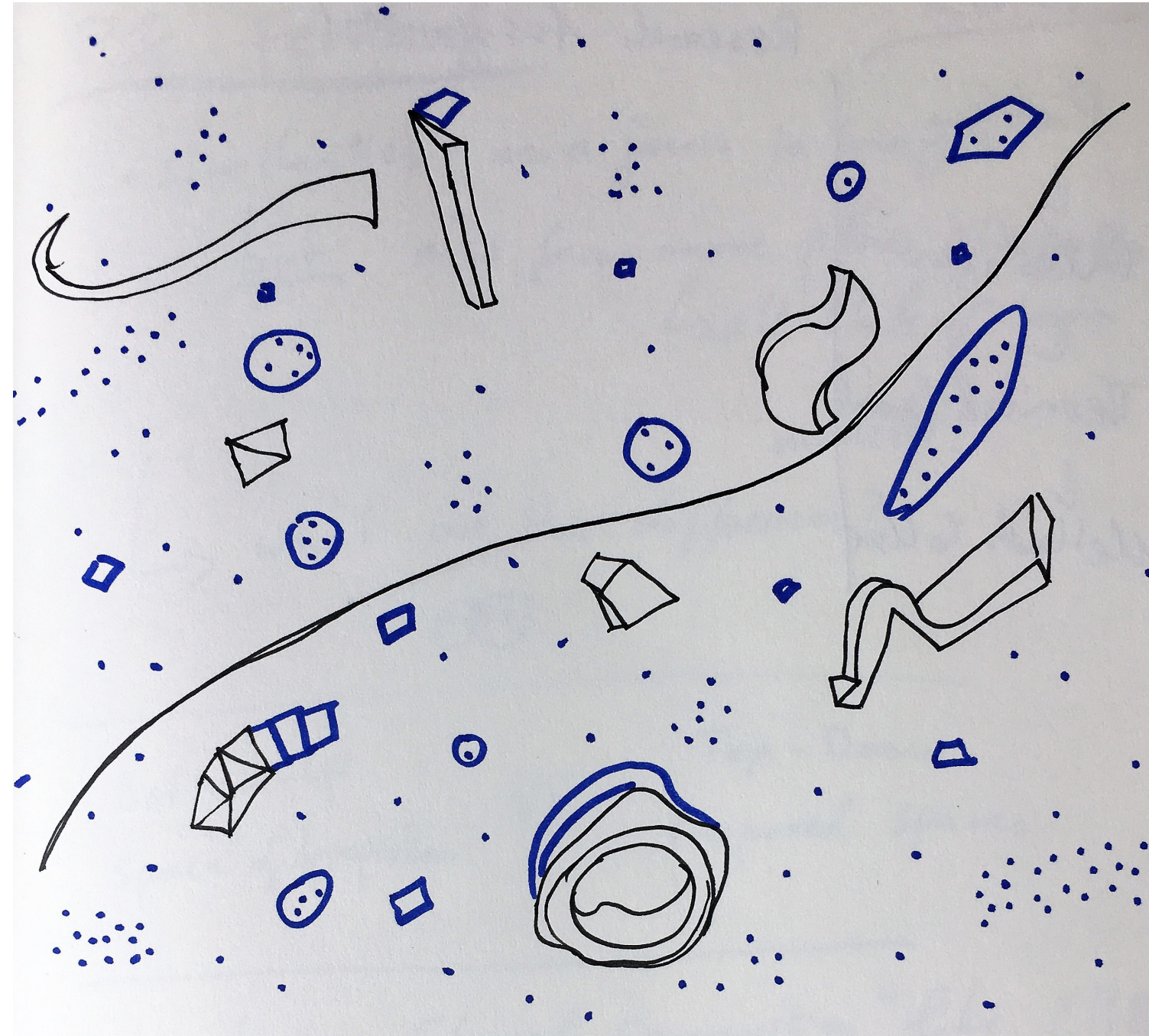
Research

Research: **Initial Thoughts**

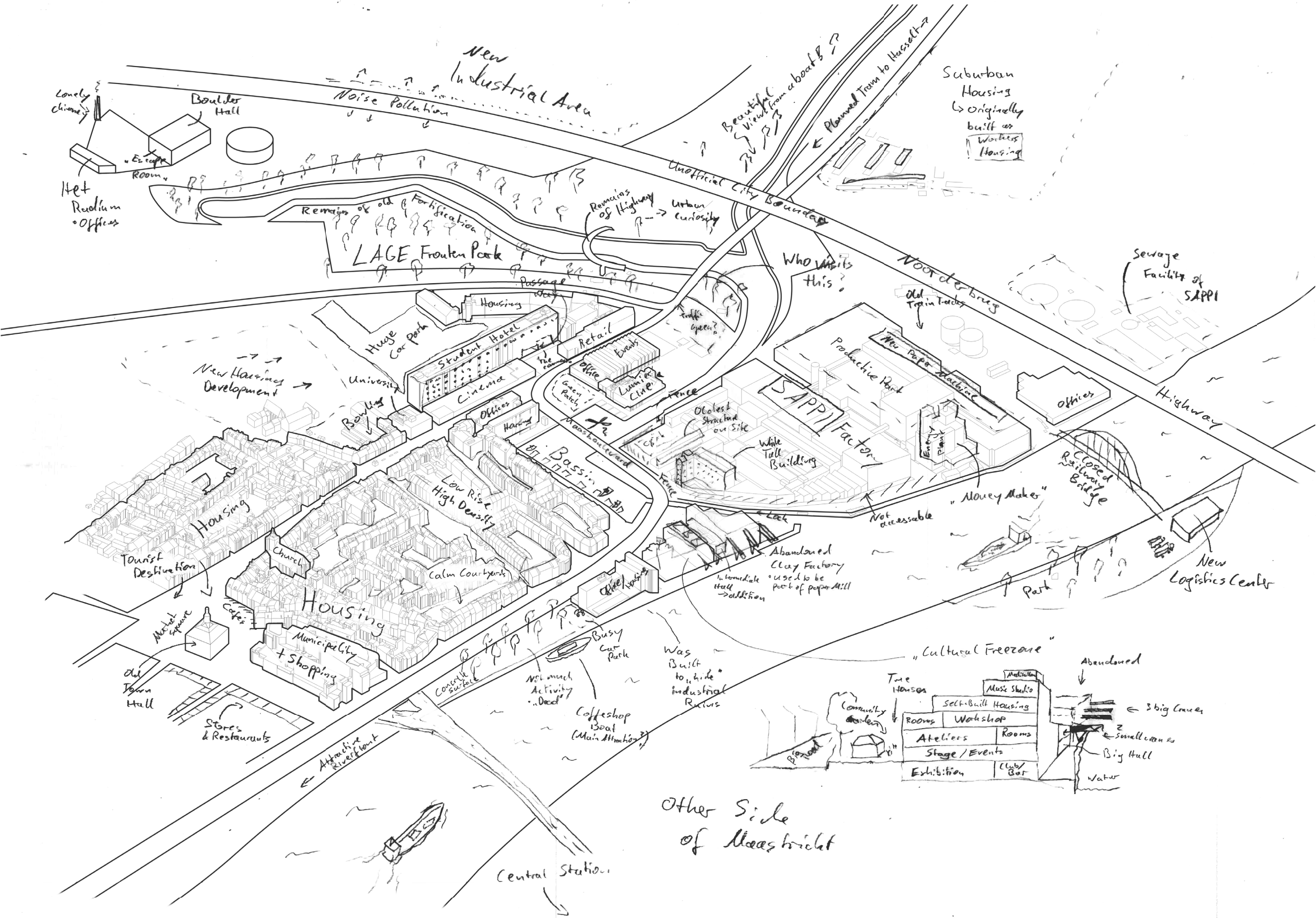
The city as Metabolism of Matter & Networks

Concept image that depicts different actors, human and non-human, within a complex network/assemblage.

With regards to the studio site these actors could be understood as the inhabitants of our site and the different architectural bodies, of which many stand seemingly isolated, but also the parts which they are made of individually. (Sappi Factory, LBB, Sphinx, Lage Fronten Park, etc.)



Research: City as Assemblage



How to deal with such complexity?

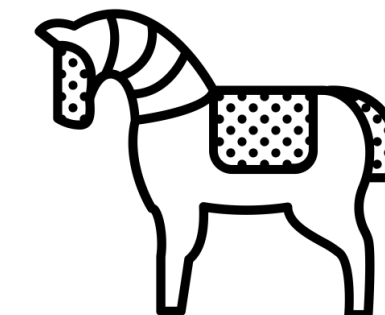
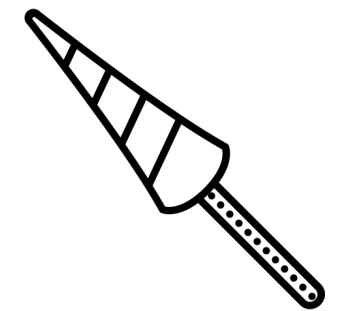
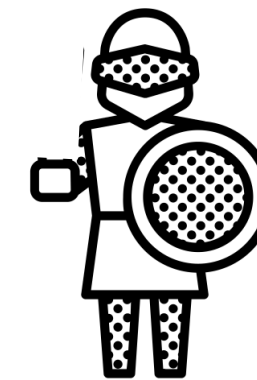
Assemblage Theory

- From the French ,agencement‘ which refers to both **agency and arrangement**
- Considers places, things, entities, etc. as ,**contingent**‘ assemblages (made of heterogeneous elements: human/non-uman, organic/inorganic, technical/natural)
- These hold **emergent** properties not reducible to its parts
- Entities have **capacities** that are activated differentially according to arrangements that are entered into

New Capacities

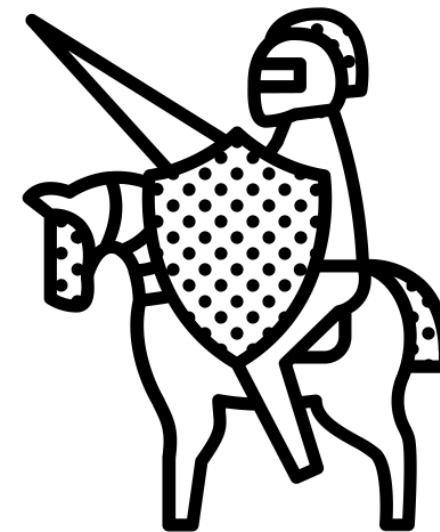
Example:

Knight, Horse and Lance each have independent **intrinsic** capacities, but new **emergent** capacities are realized when they enter into new **assemblages**/relations with one another



Machinic Assemblage

- Entity that is **more than the sum of its parts**
- A stabilized entity takes on **agency**
- Assemblages have identities that can ,persist‘ (Terretorialization) or loosen into constituent parts (Deterretorialisation)



Material Tendencies

- **properties** (all potential aspects of an entity)
- **capacities** (aspects that might be activated through relations)
- **tendencies** (properties for certain aspects to be activated) : some capacities easier to activate than others...



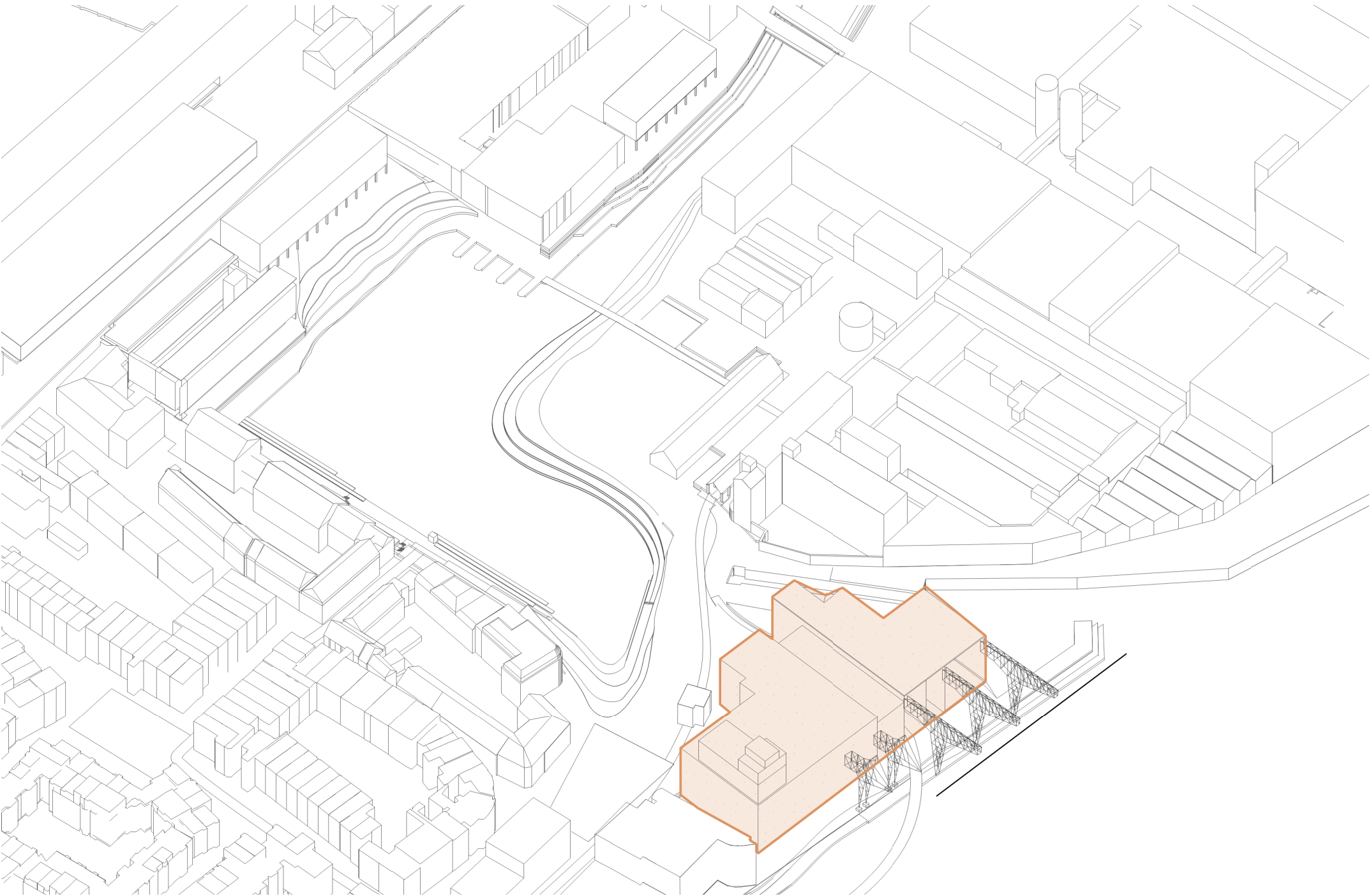
Resulting Questions

What are the ,components‘ that characterize the Spinxkwartier today?

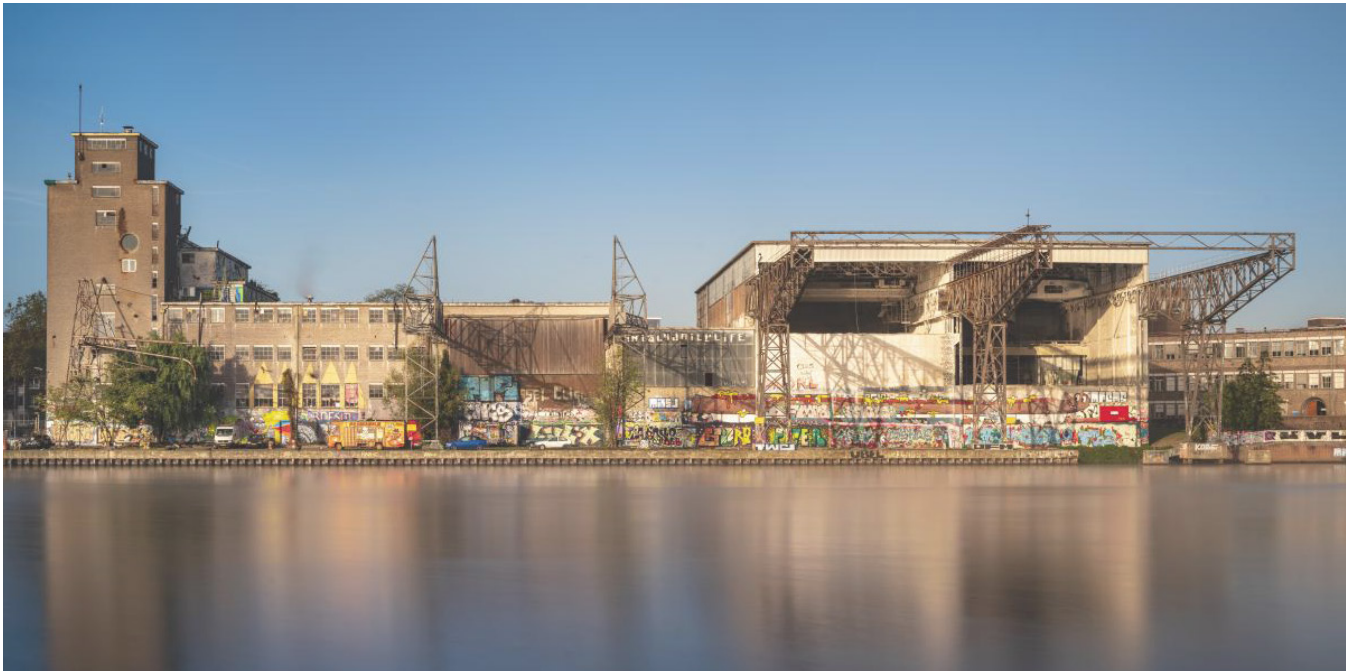
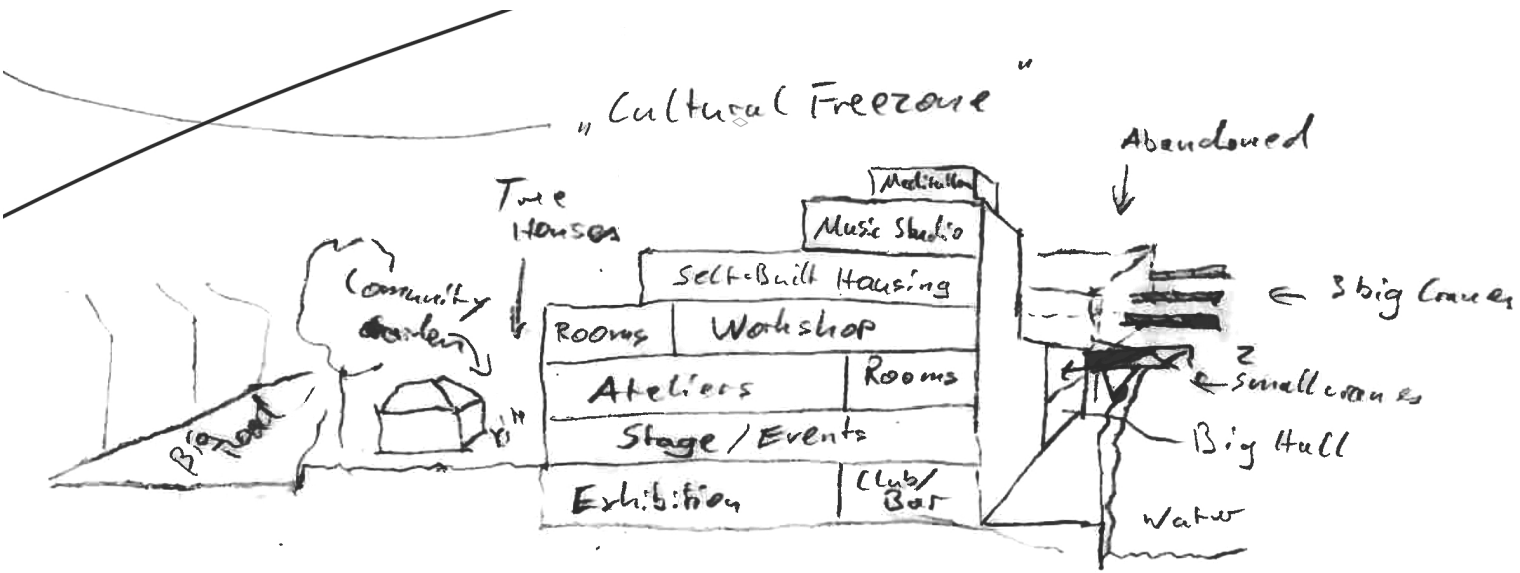
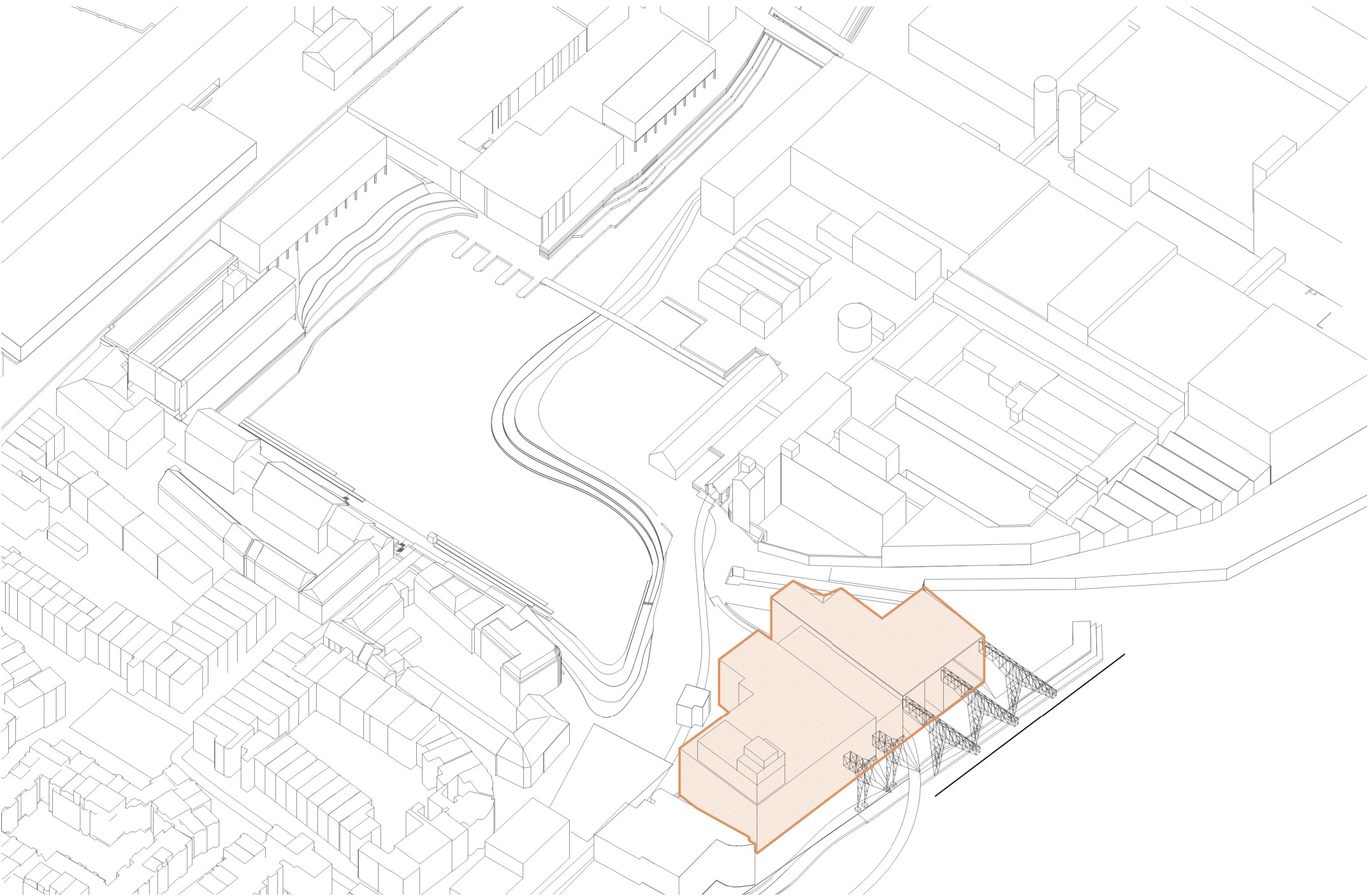
How might these components of the city be considered as usable parts to form new beneficial assemblages?

In what way might an intervention be designed, so that it makes ideal use of the available capacities of components at hand?

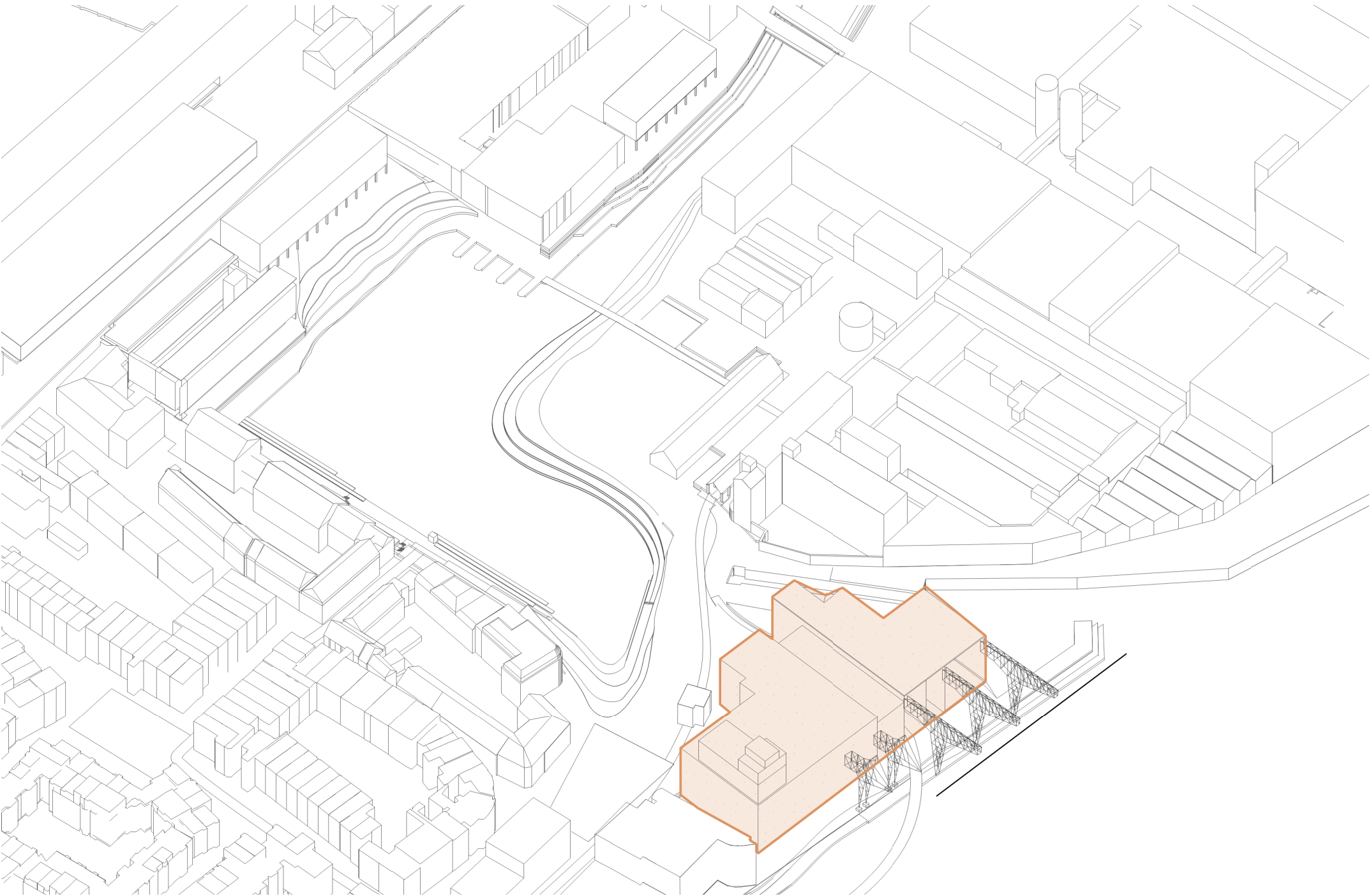
Assessment of the Existing: **A Site at Threat**



Assessment of the Existing: A Site at Threat



Assessment of the Existing: A Site at Threat

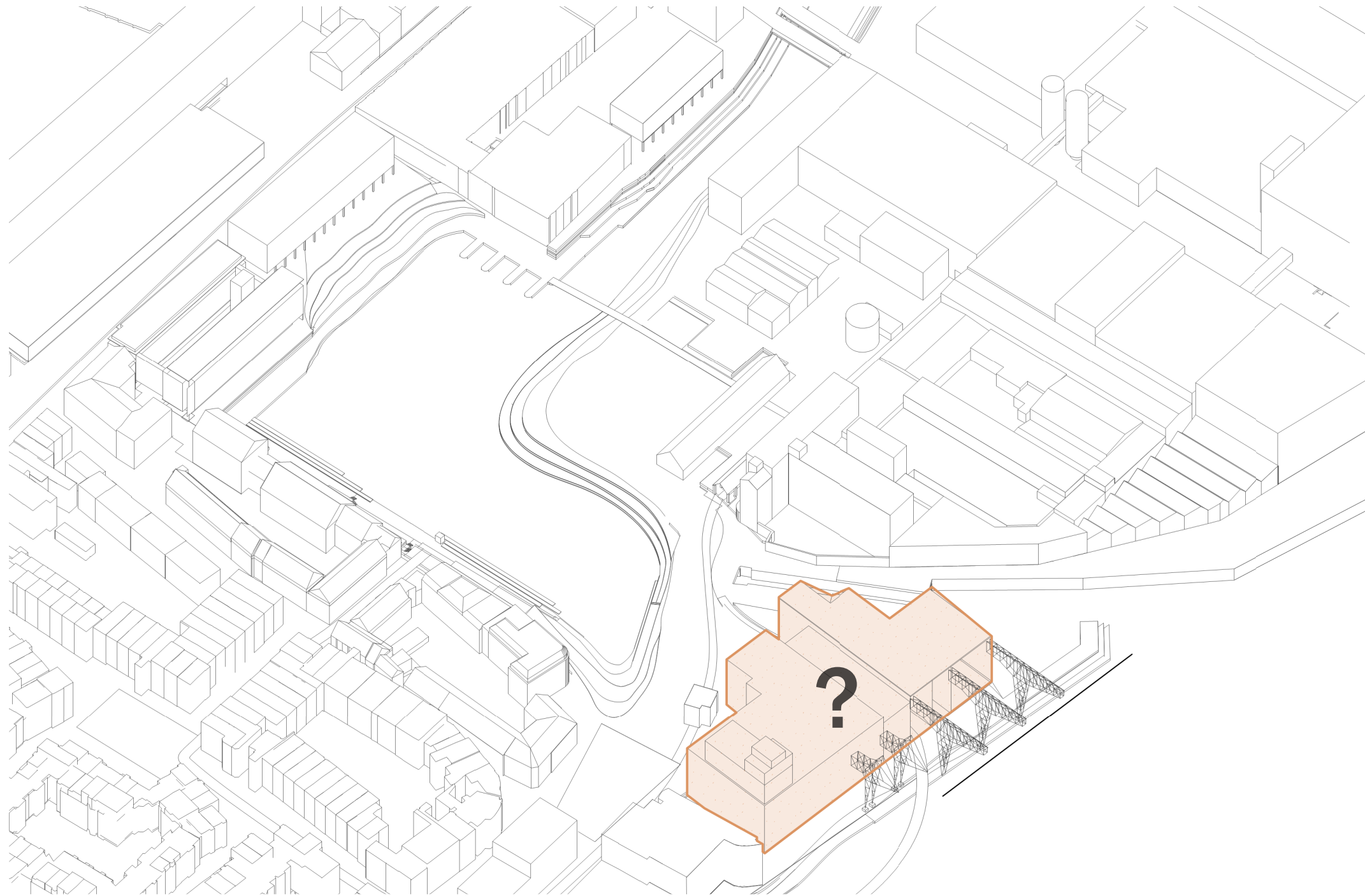


Sustainability is a
important and integral
part of architecture
and urban planner
composition.

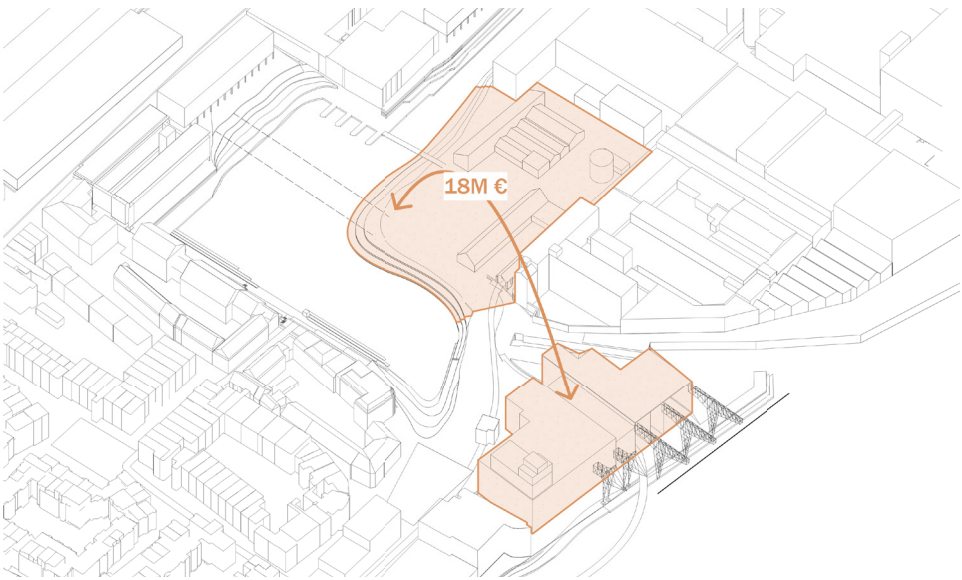
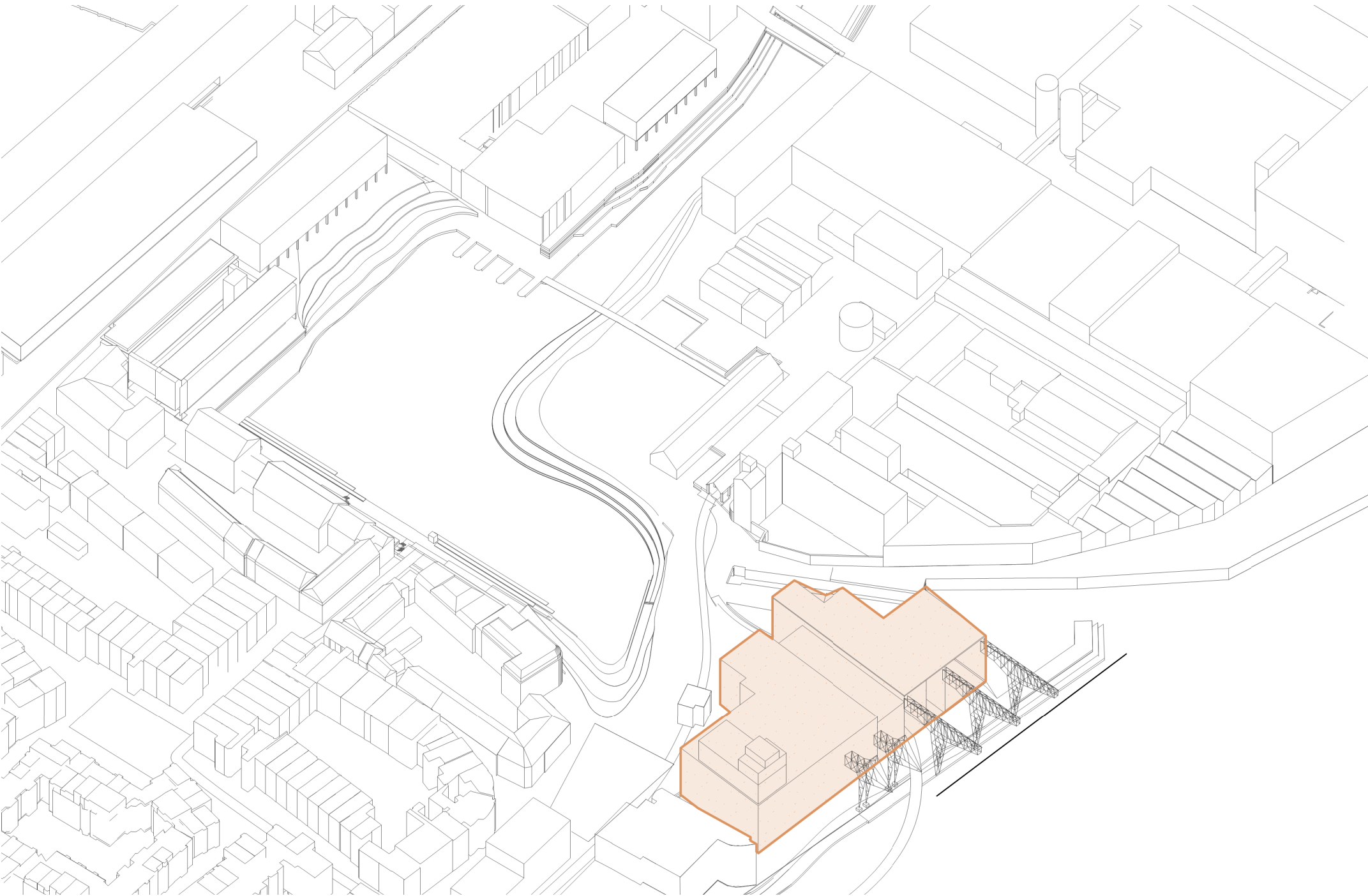
We dream of a
development that completely
is energy neutral and no or
minimal CO₂/NO_x emissions.

"I see trees on the roof, Mom!
Can we go there?"
- Steffie (walking with mother
Ingrid, while shopping)

Assessment of the Existing: A Site at Threat

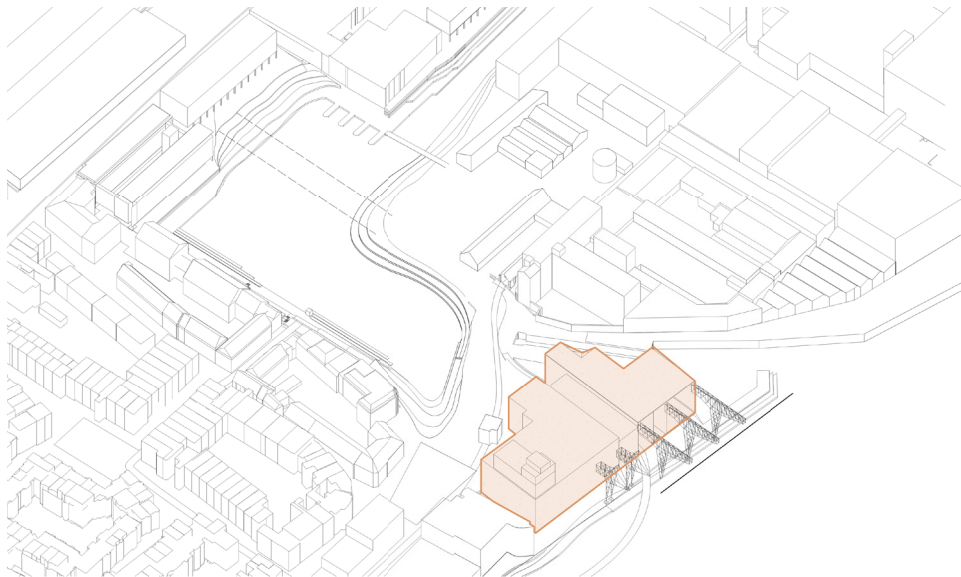


Assessment of the Existing: A Site at Threat

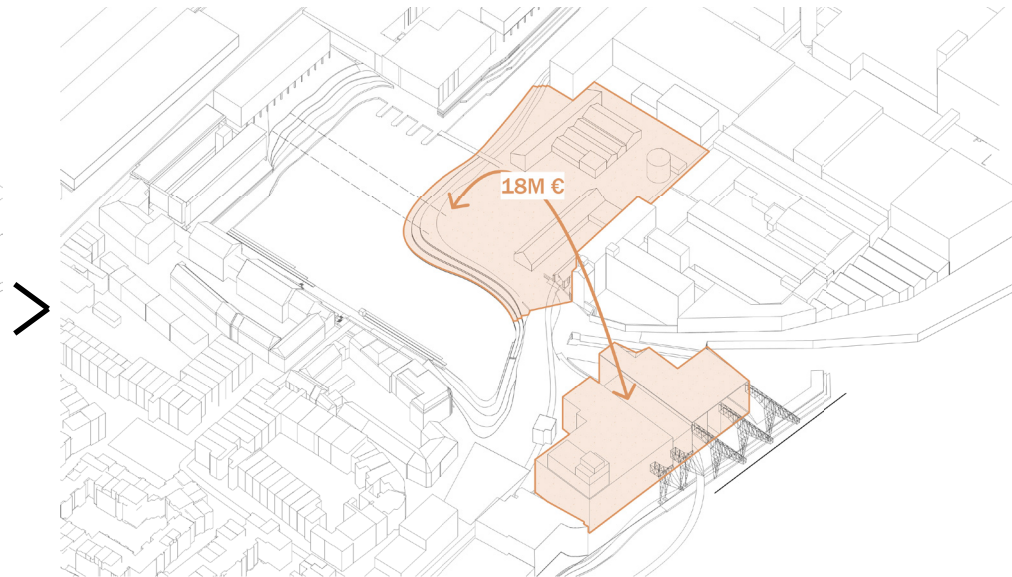


Exchange of Ownership

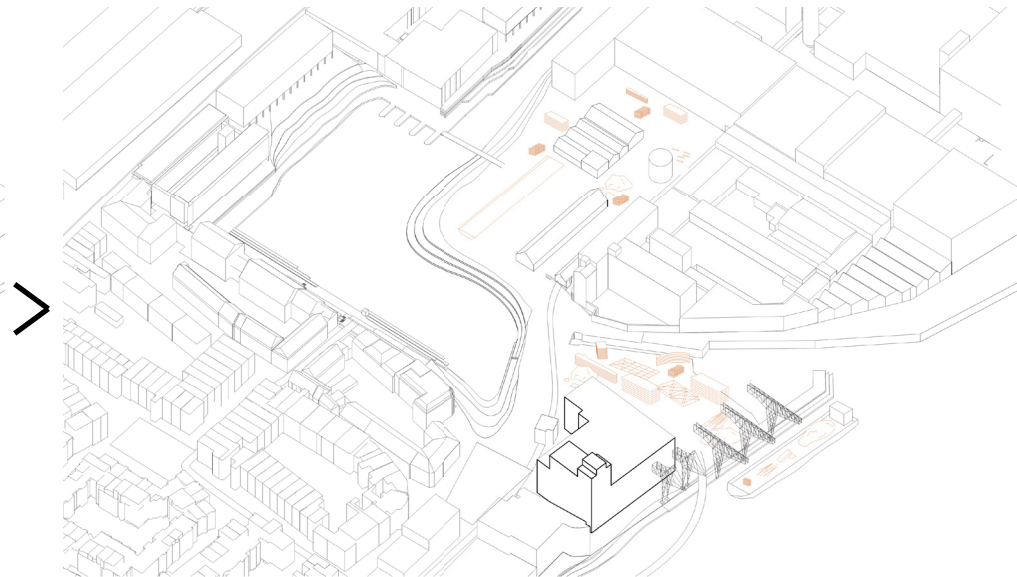
Site Concept: A Story of Urban Migration



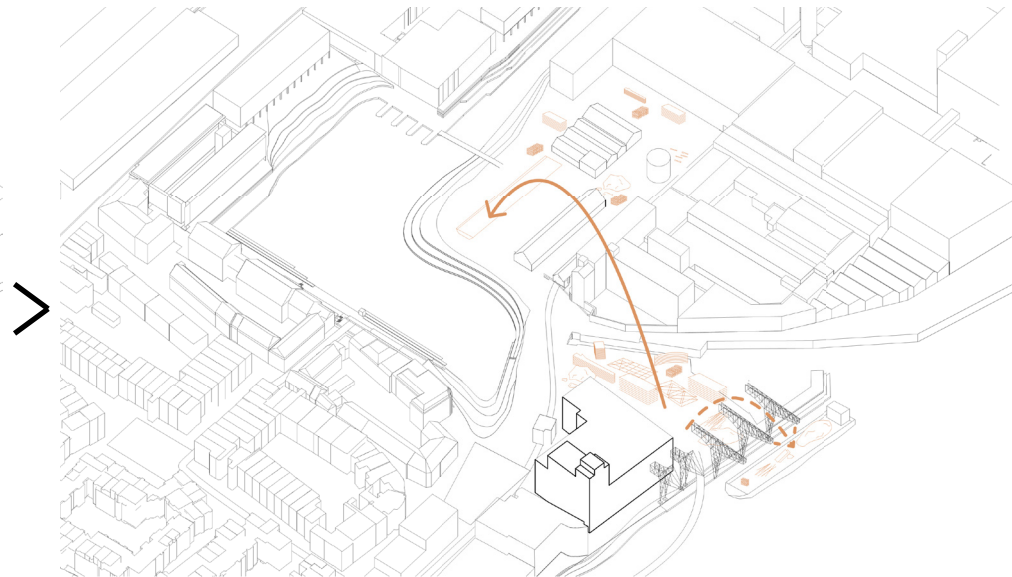
Threat of Demolition/Eviction



Exchange of Ownership



Deconstruction

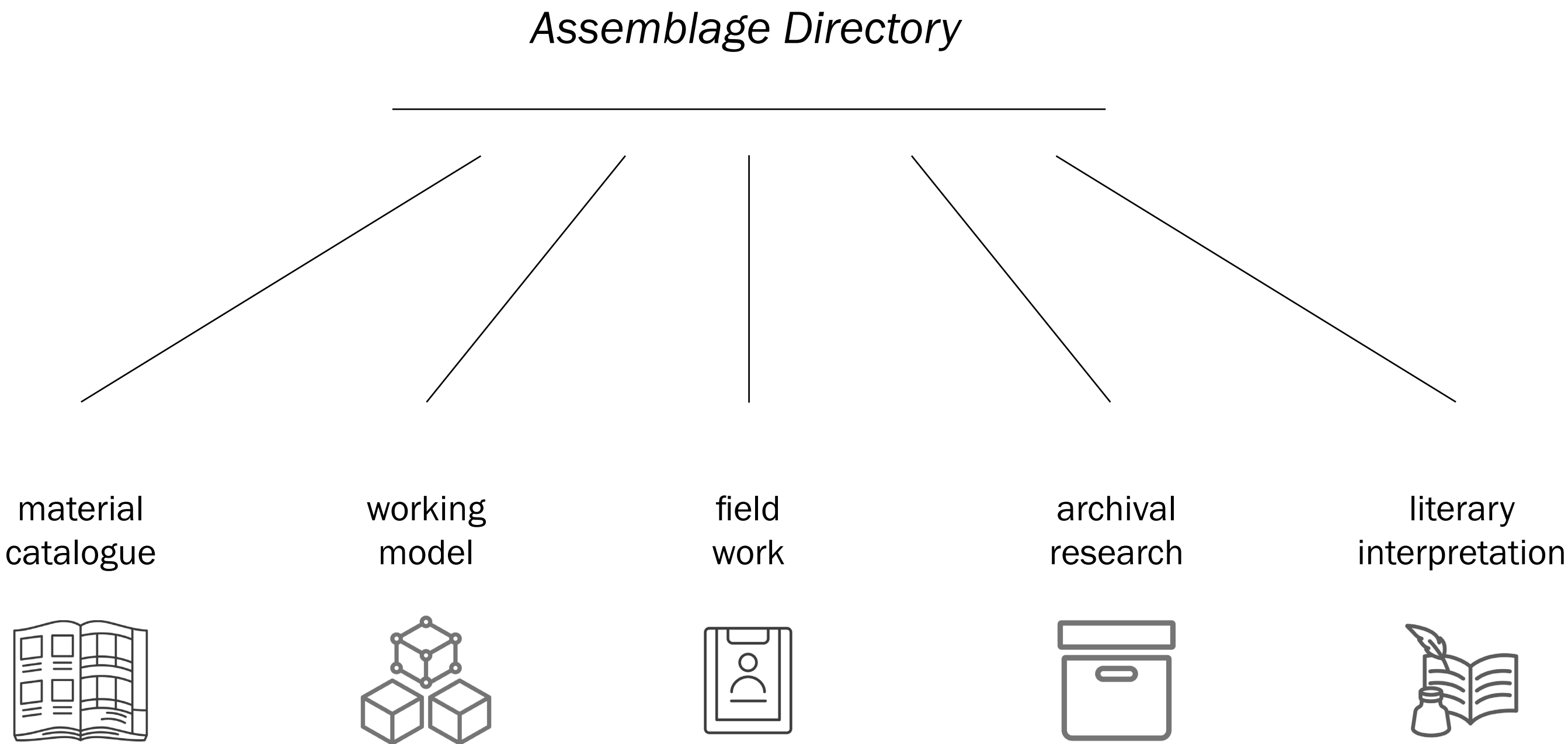


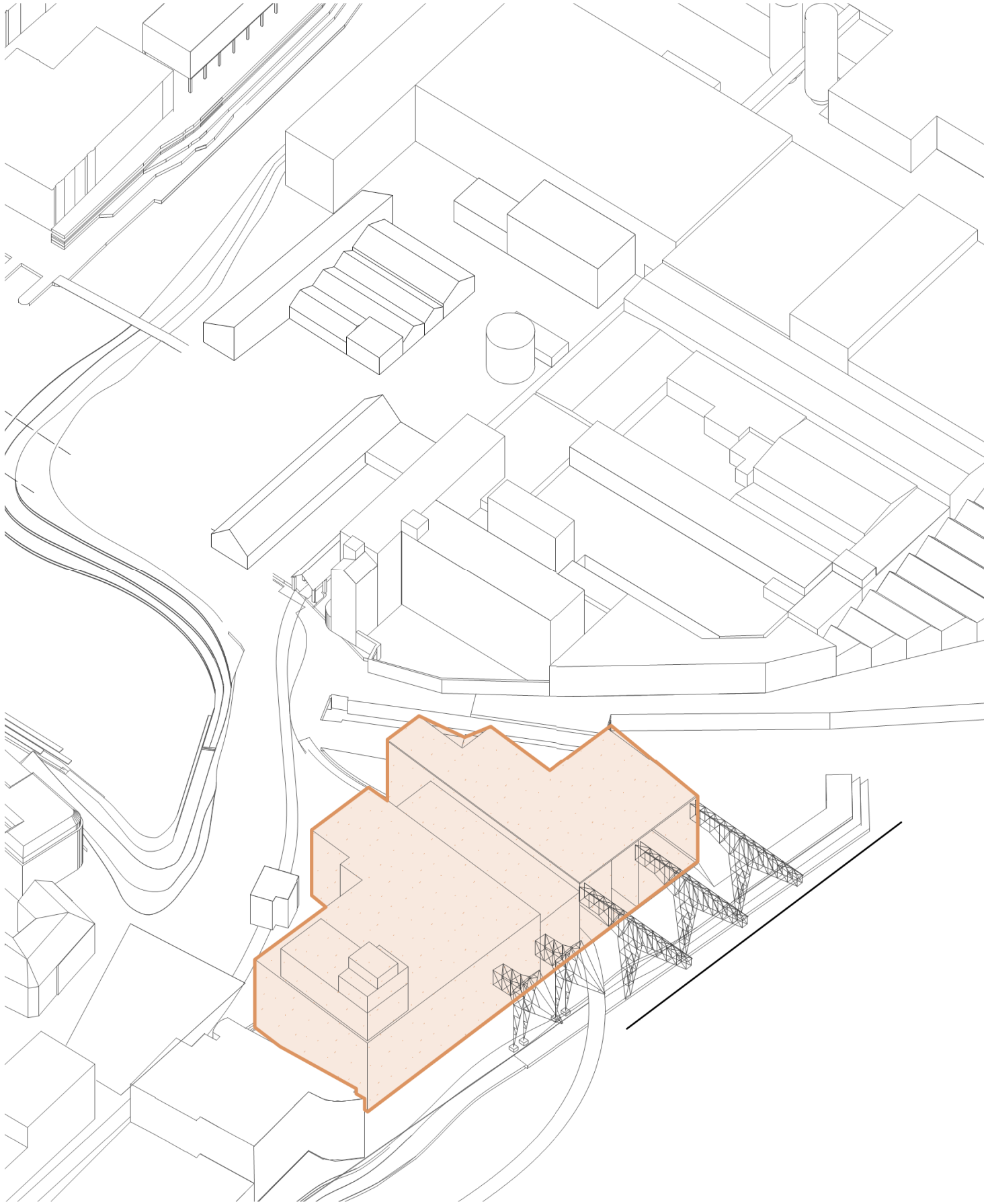
Migration of Material and Community

Research: **Assemblage Theory**

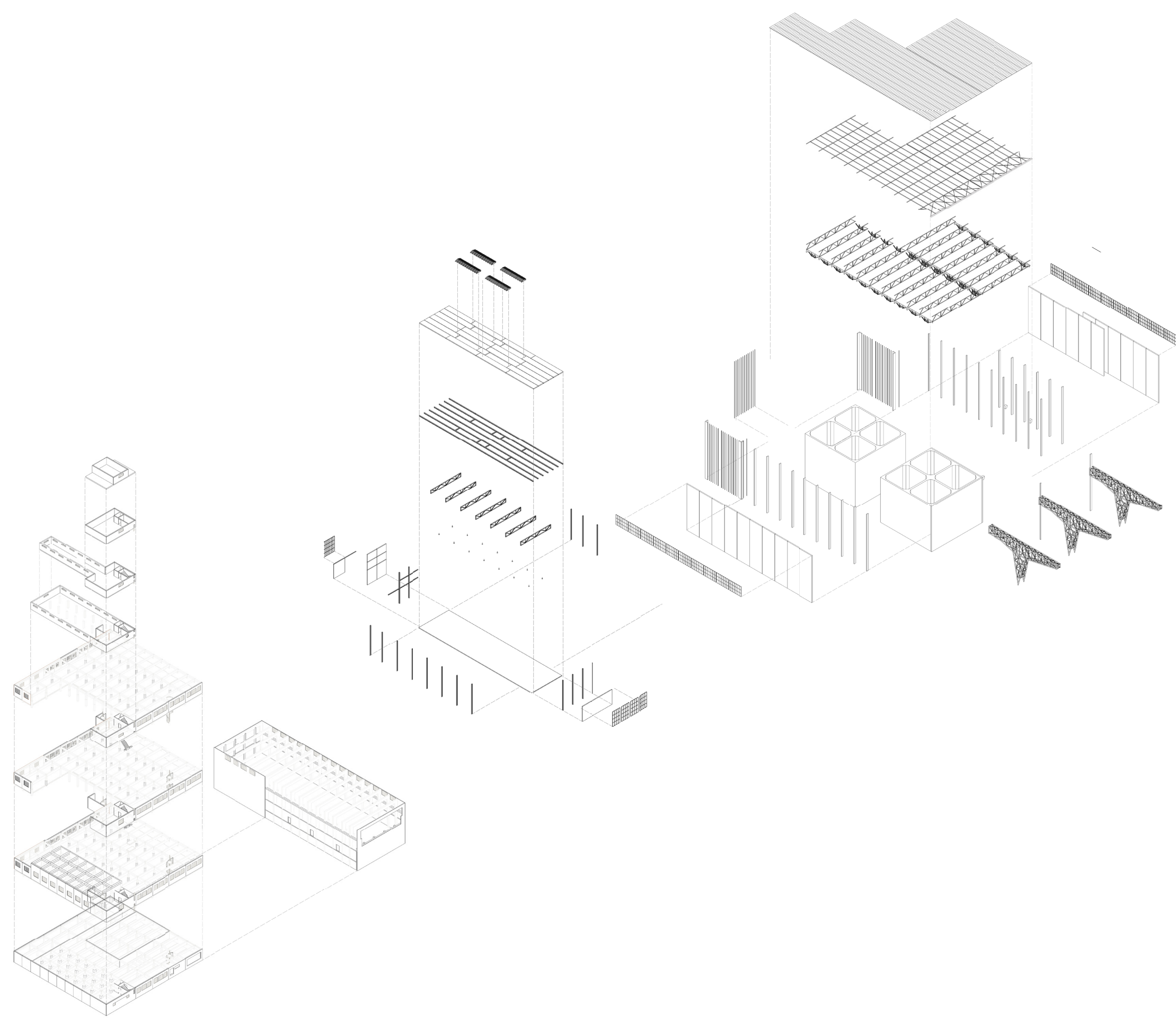
**Assemblage as tool to deal with
urban complexity**

- document that bundles a viariety of seemingly unrelated findings
- identifying potentials & capacities
- the goal is to comprehend and embrace the complexety of both sites for the subsequent intervention

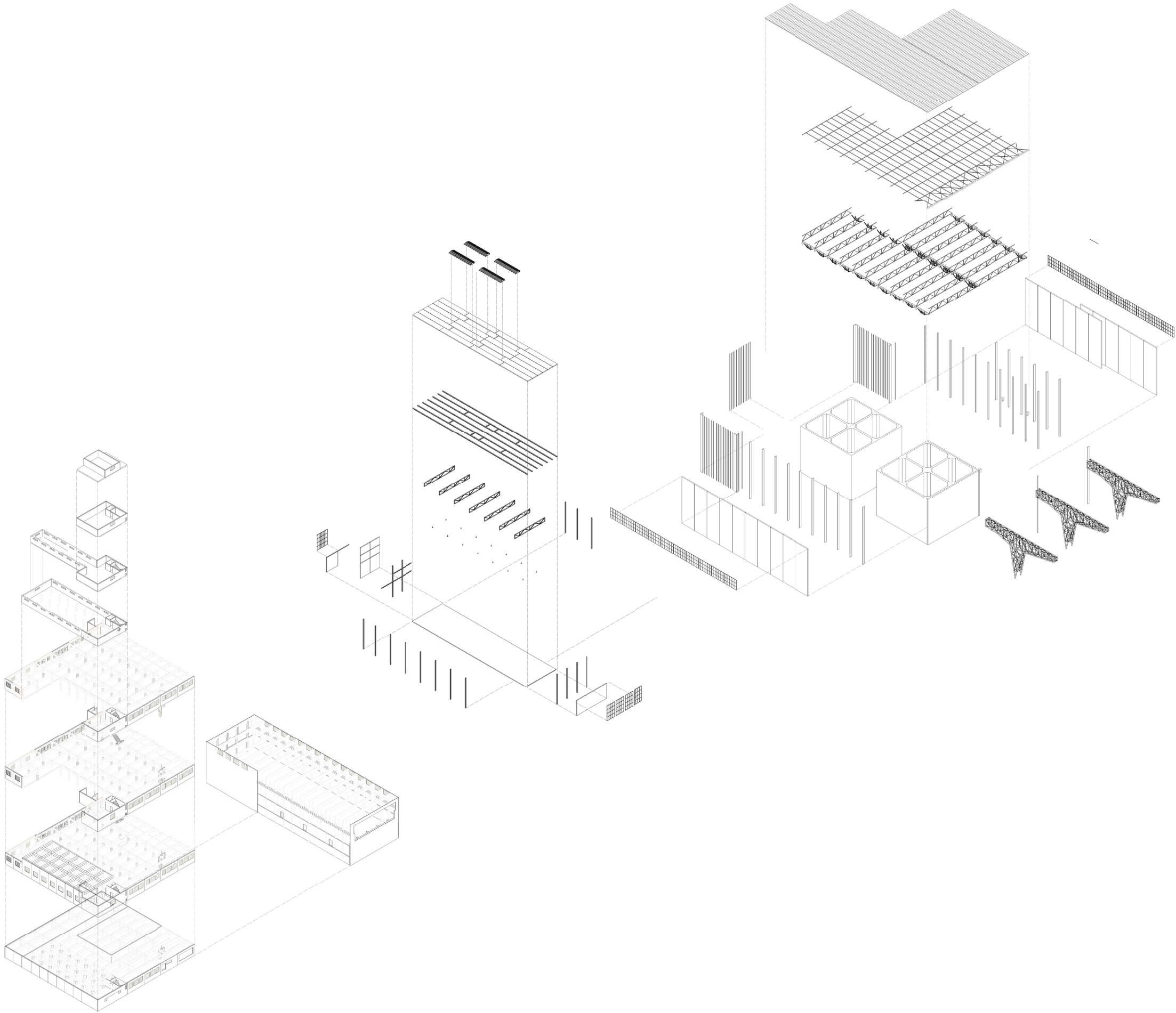




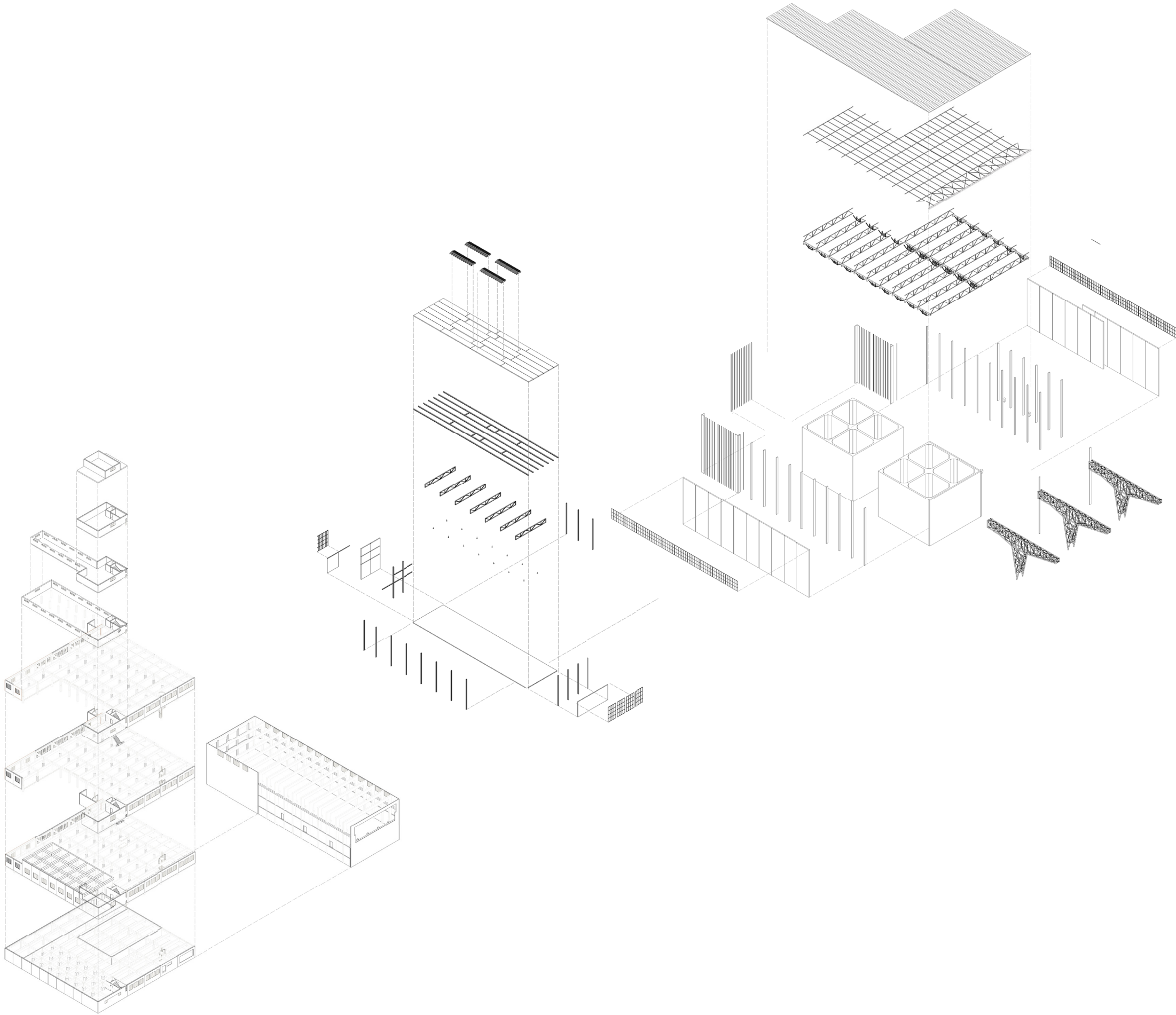
Research: **Assemblage Directory**



Research: **Assemblage Directory**



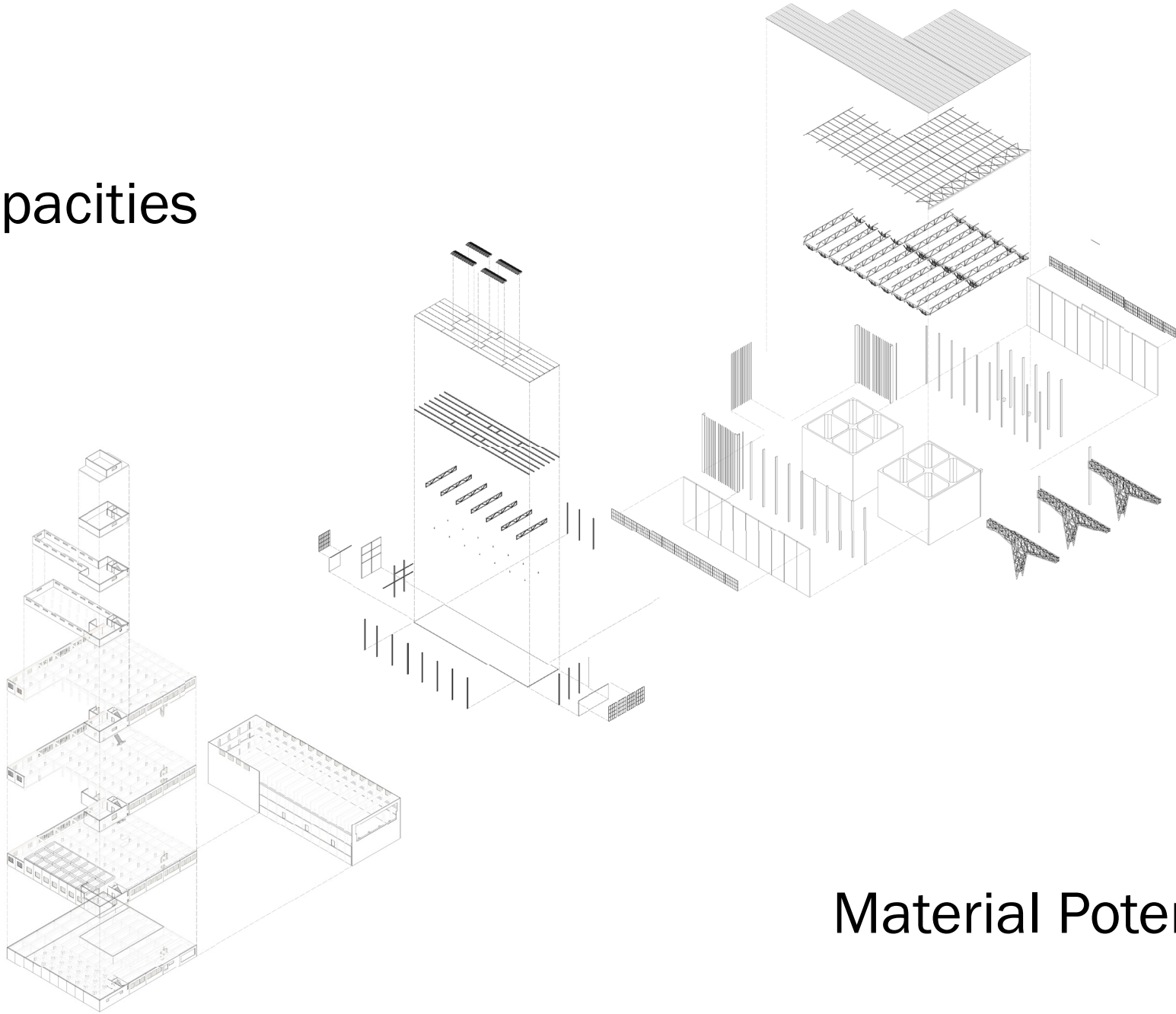
Research: **Assemblage Directory**



Research: **Assemblage Directory**



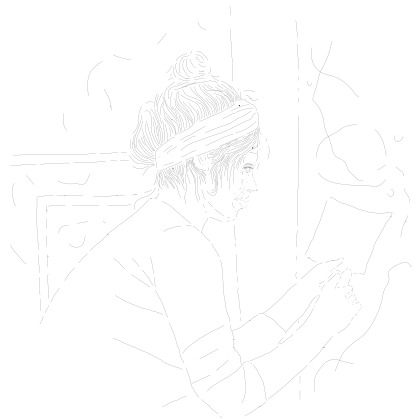
Social Capacities



Material Potentials



Assemblage Directory: **Field Work**

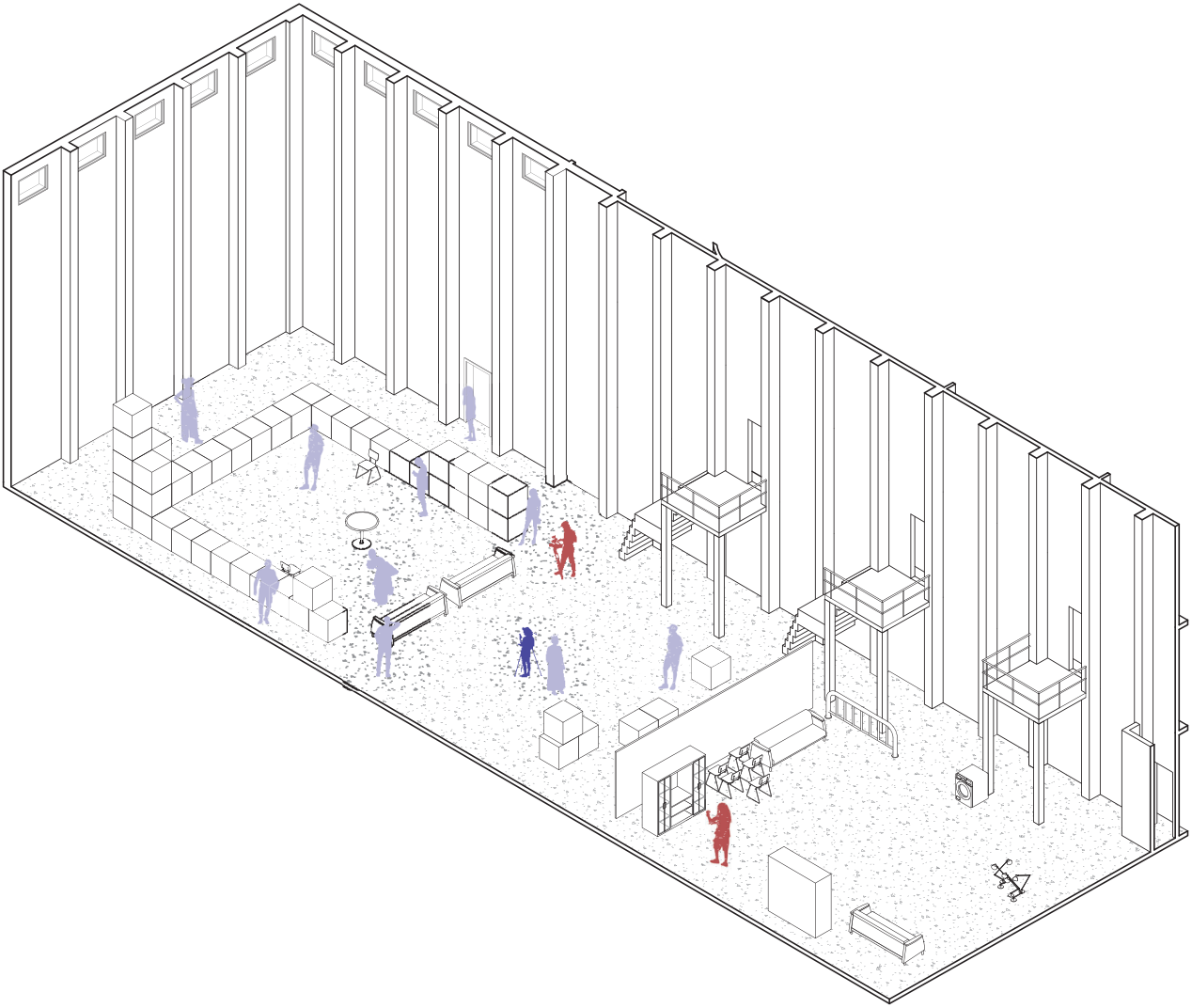


Marielle is a resident and an artist, she is occupying one of the studio spaces on the second floor of the building. She has lived and worked at the LBB since January 2021. In September, she presented some of her works in the exhibition space of the building.

“I started living here in January. I have my studio here, so I live and work in the LBB. This isn’t the first community I lived in. So I was always on the outskirts of society. What I like the most is the community together, you’re not living alone. But it’s nice. It’s like a family, sometimes you have fights, sometimes you love each other. It’s normal. The building is very inspiring. When you’re inside, you have the feeling that you are in a different reality like the outside world doesn’t exist. Here, people are very kind and accepting, you feel at home.”



Assemblage Directory: **Field Work**



Assemblage Directory: Material Catalogue

IDENTIFICATION

Trusses

DIMENSIONS

Height220 mm
Width60 mm

QUANTITY

in units x length7 x 7m

MATERIALITY


steel, painted

LOCATION and FUNCTION IN SITU

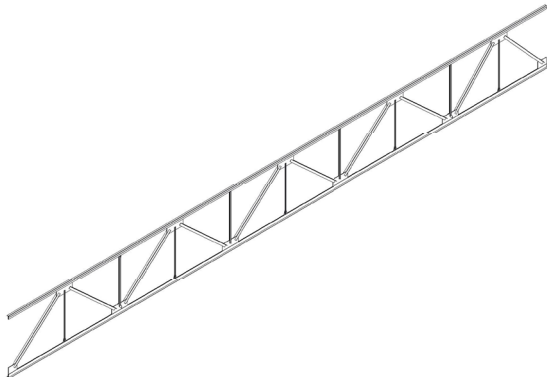
-

CONDITION and REMARKS

-



80



81

IDENTIFICATION

industrial cranes

DIMENSIONS

14,6 m
2,4 m
28,8 m

QUANTITY

in units3

MATERIALITY


steel, painted

LOCATION and FUNCTION IN SITU

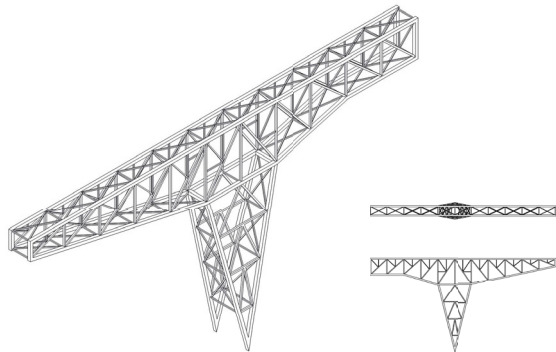
-east of the factory hall along the Maas riverside
-formerly used to transport heavy weight goods (mainly clay) between the storage silos and cargo ships on the water

CONDITION and REMARKS

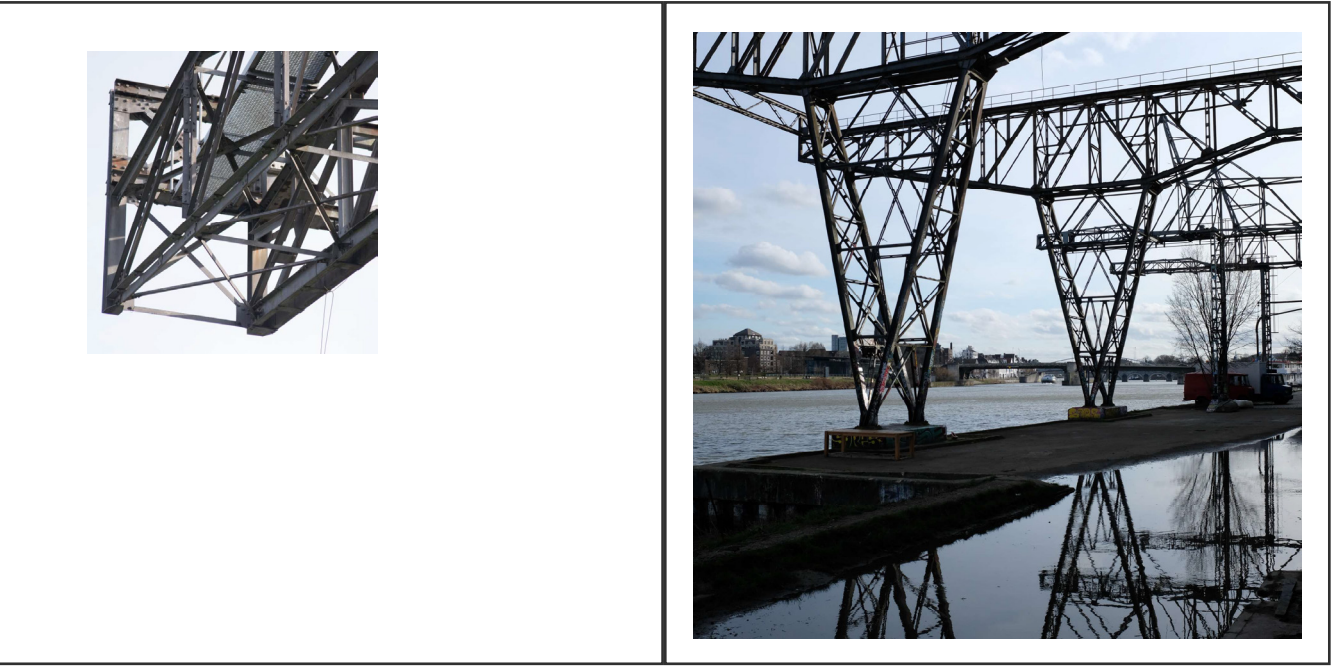
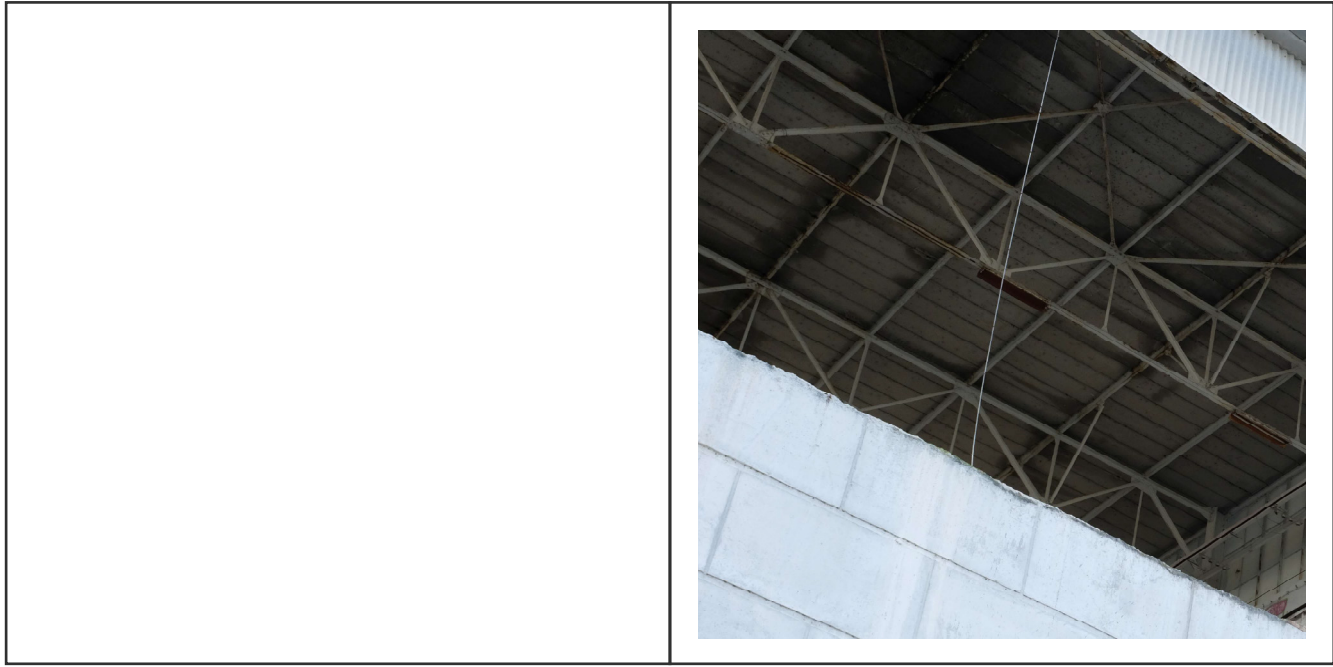
-cranes are in good condition and structurally intact (post-mate)
-steel components are riveted together and therefore unsuitable for disassembly, disassembly as full structural entity is plausible



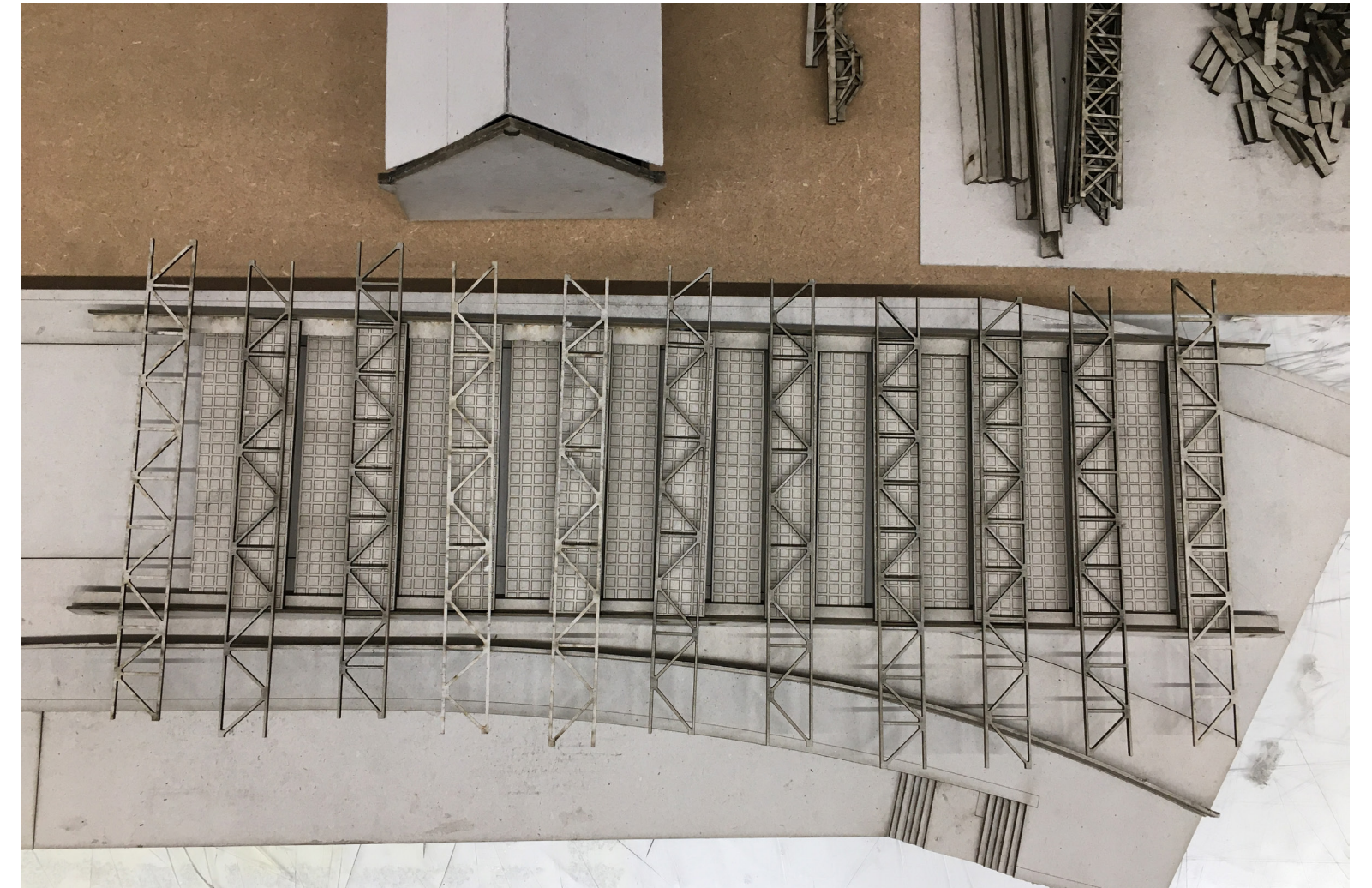
6

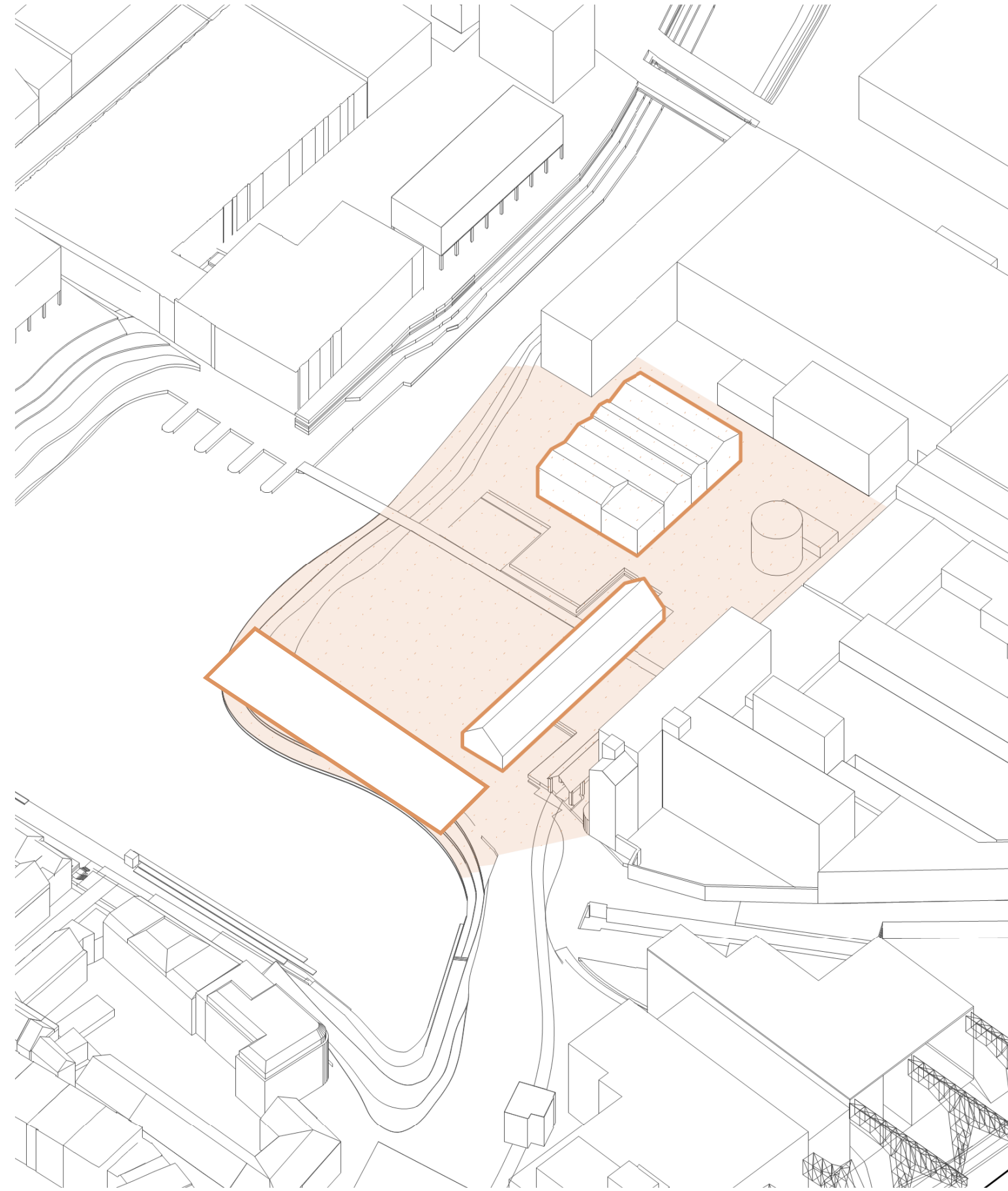


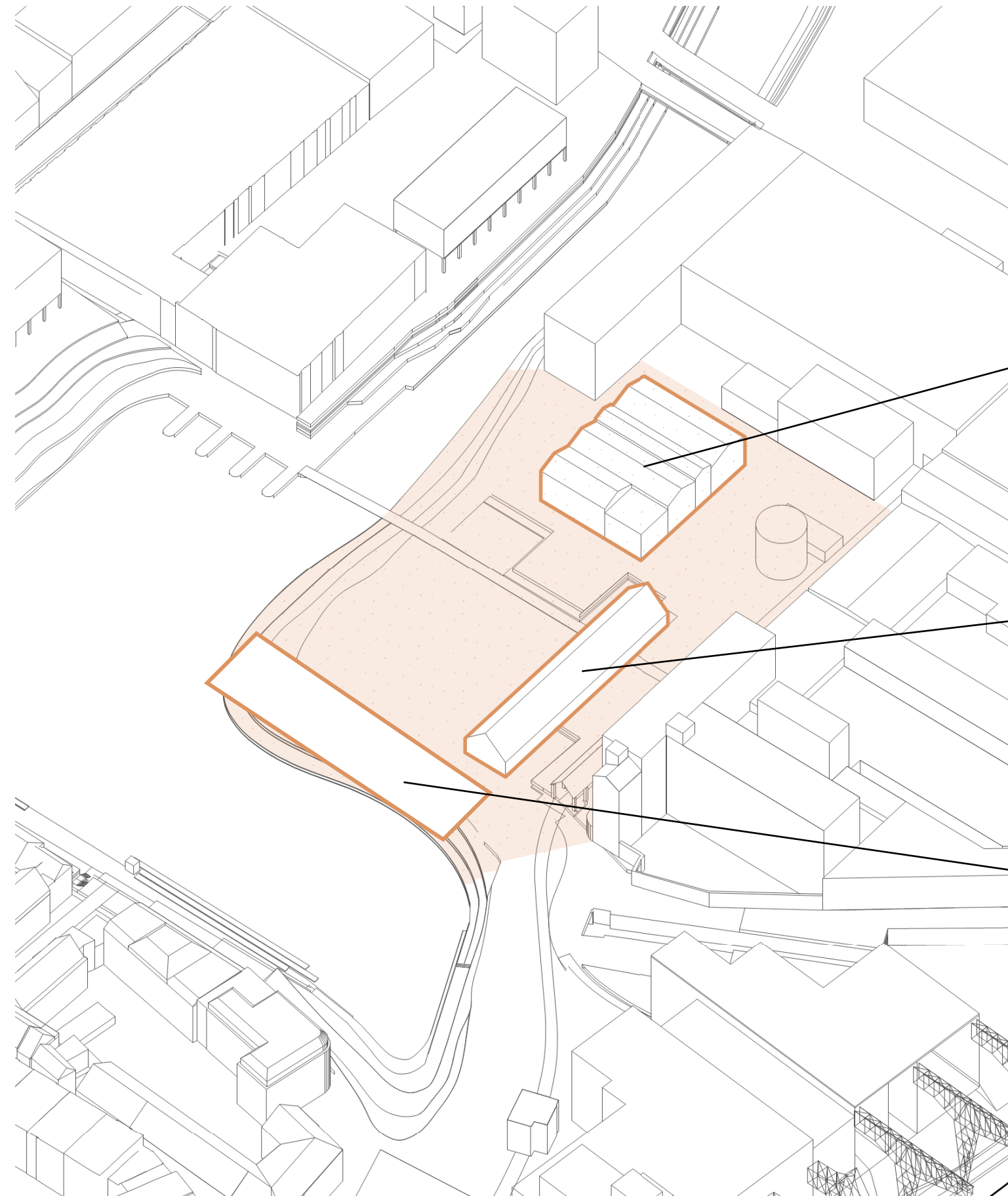
7



Assemblage Directory: **Working Model**







Repair Workshop

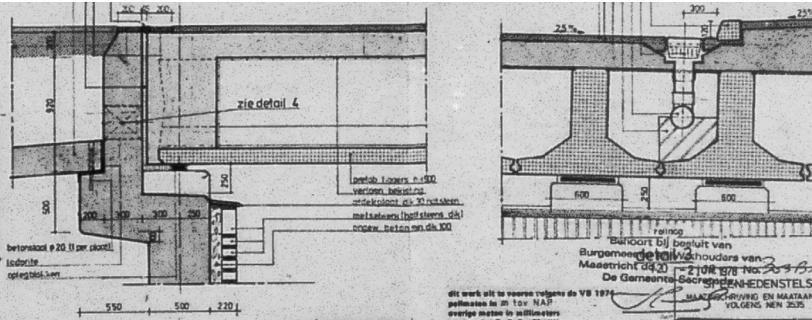
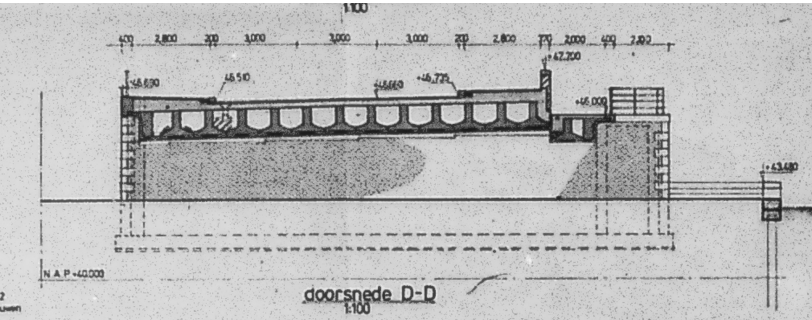
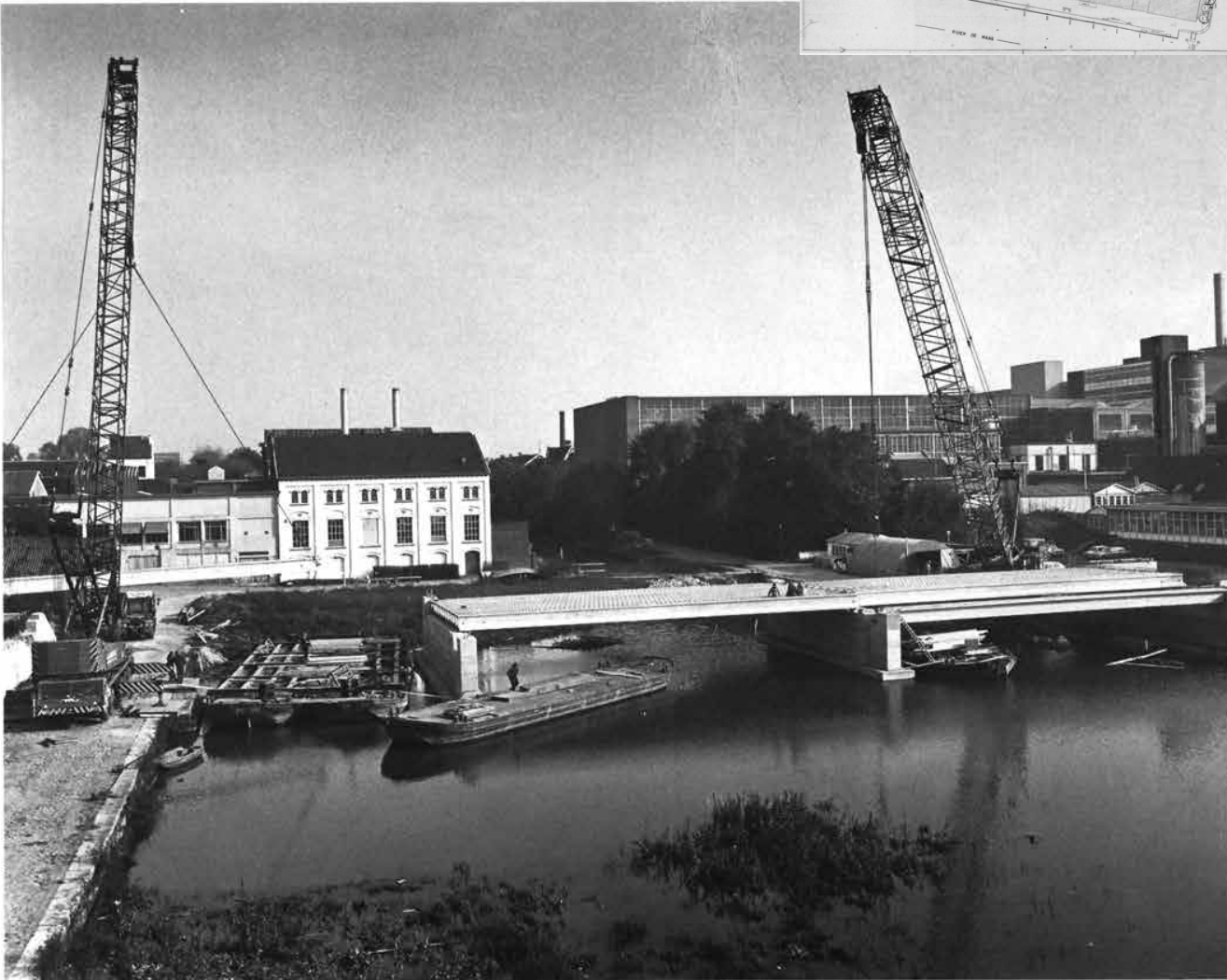
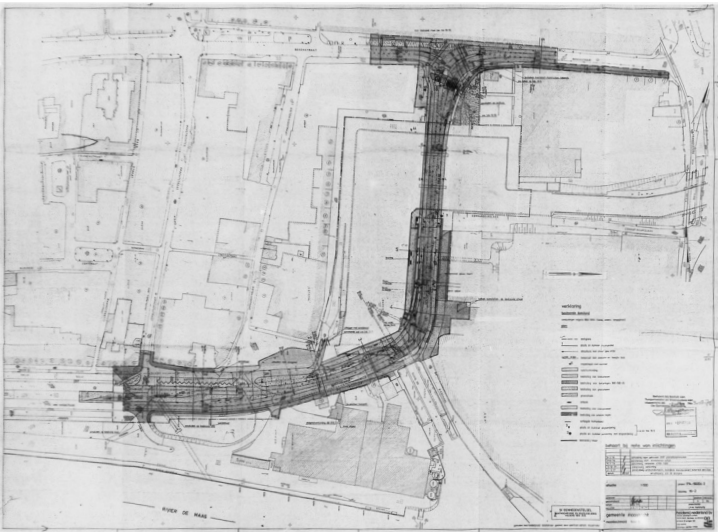
Affuitenloods

Maasboulevard Bridge

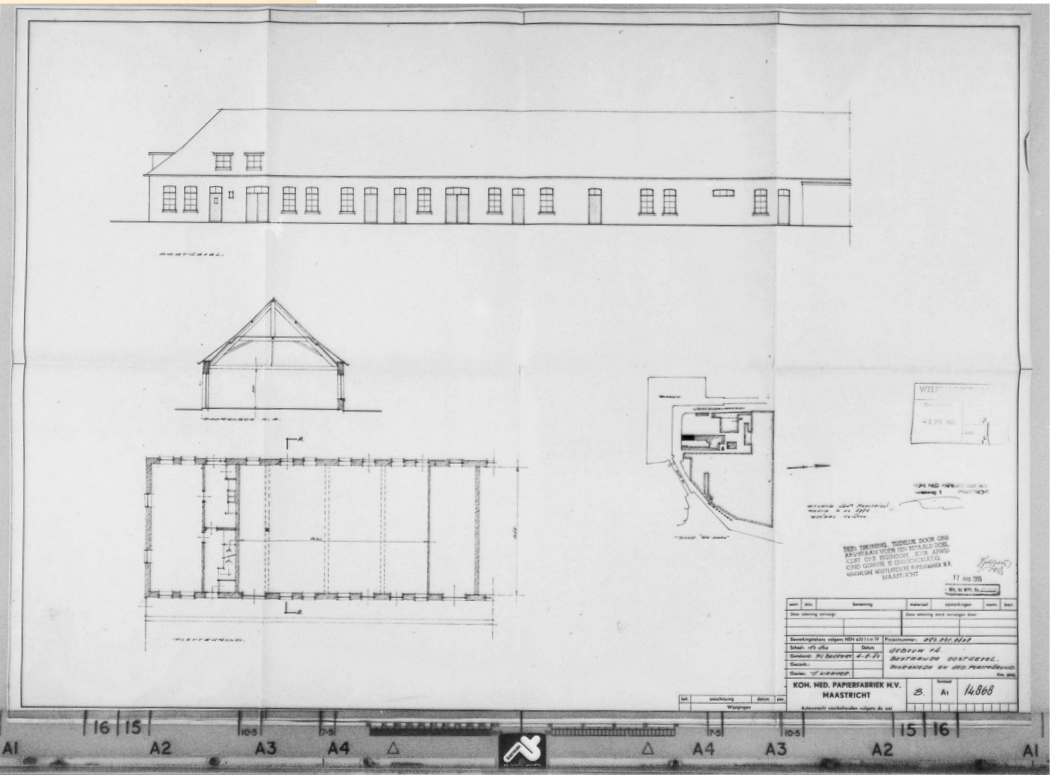
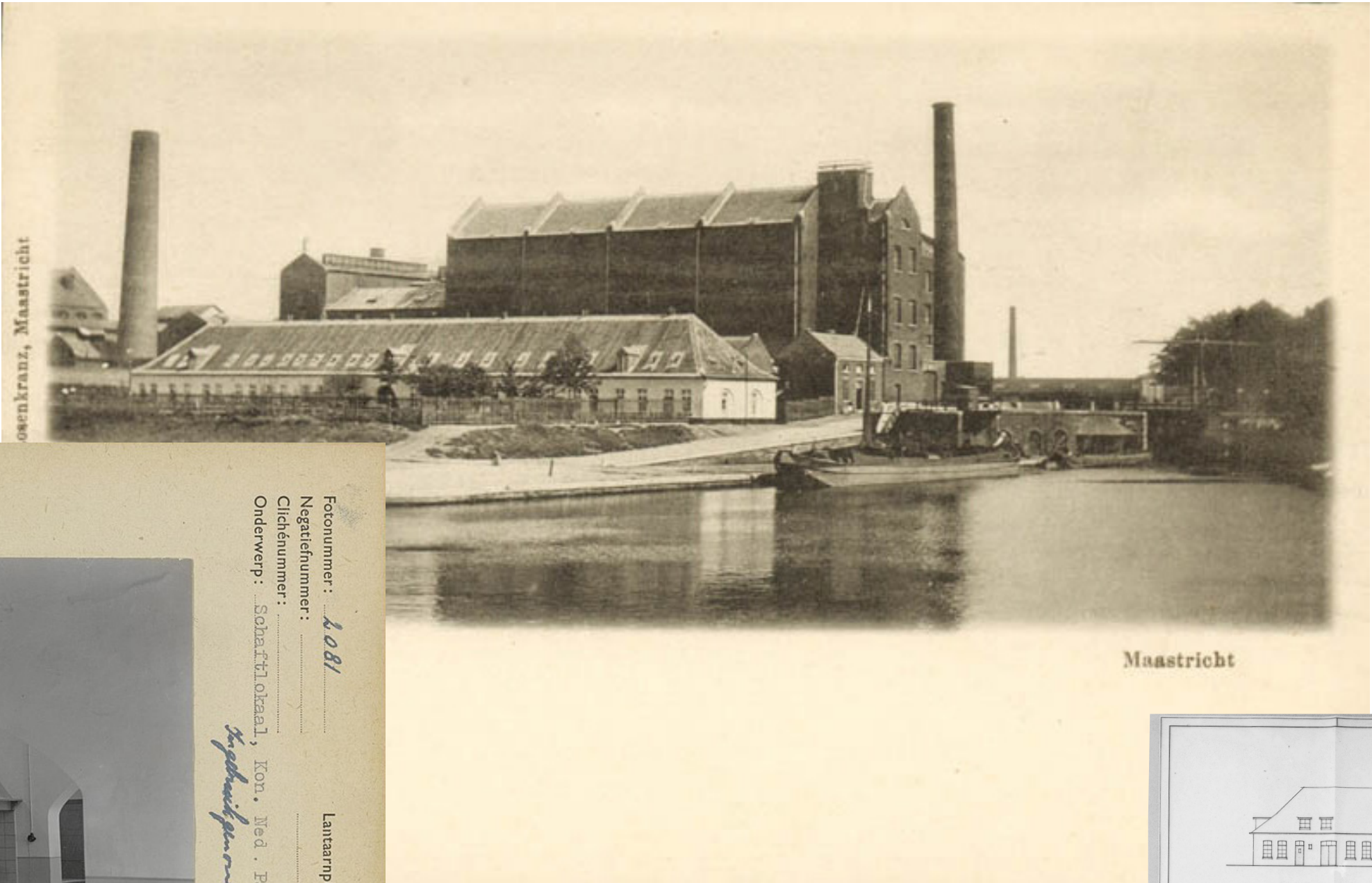
In september legden twee grote kranen de voorgespannen betonnen balken — ieder 25 meter lang en bijna 30 ton zwaar — op hun plaats, die samen de nieuwe brug over het Bassin vormen. Deze brug maakt deel uit van het laatste stuk Maasboulevard, dat in de loop van 1979 in gebruik zal worden genomen. De Maastrichter Grachtstraat zal dan definitief voor het doorgaande verkeer worden afgesloten. Het werk aan de laatste fase van de Maasboulevard, dat anderhalf jaar in beslag neemt, vergt een bedrag van ruim 10 miljoen gulden. Eerder in het jaar werden twee van de acht sluisdeuren bij het bruggetje naar de KNP gelicht in verband met de aanleg van de Maasboulevard.

2

Maasboulevard Bridge

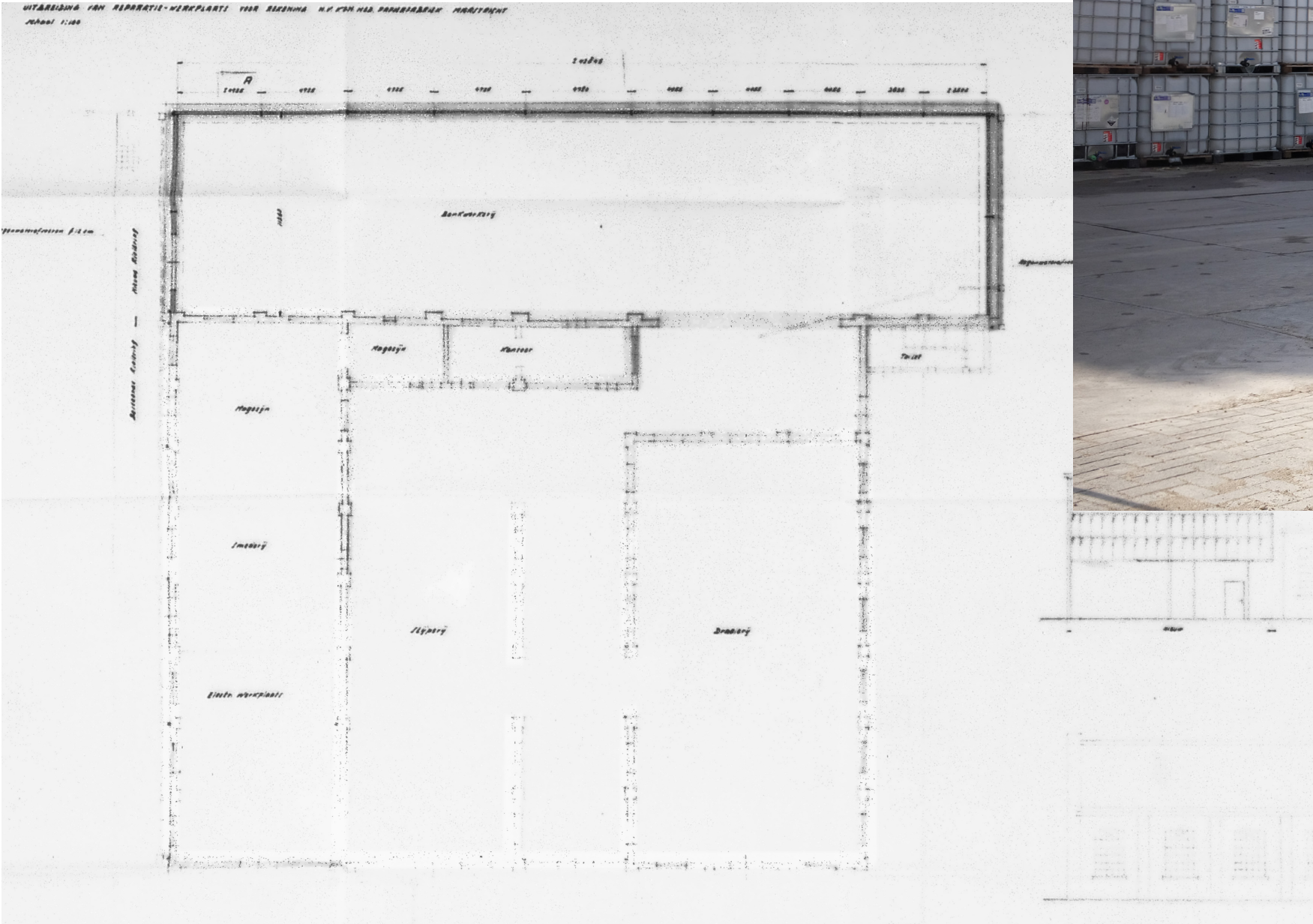


Affuitenloods



Research: History & Archive

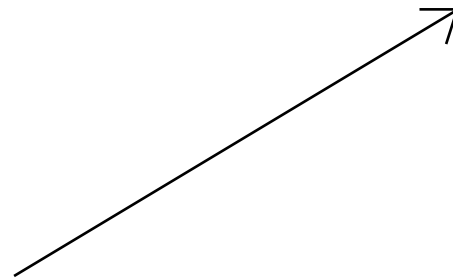
Repair Workshop



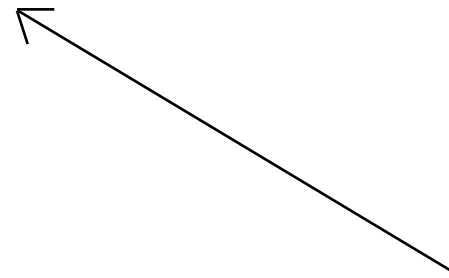
Architectural Proposal

Architectural Proposal

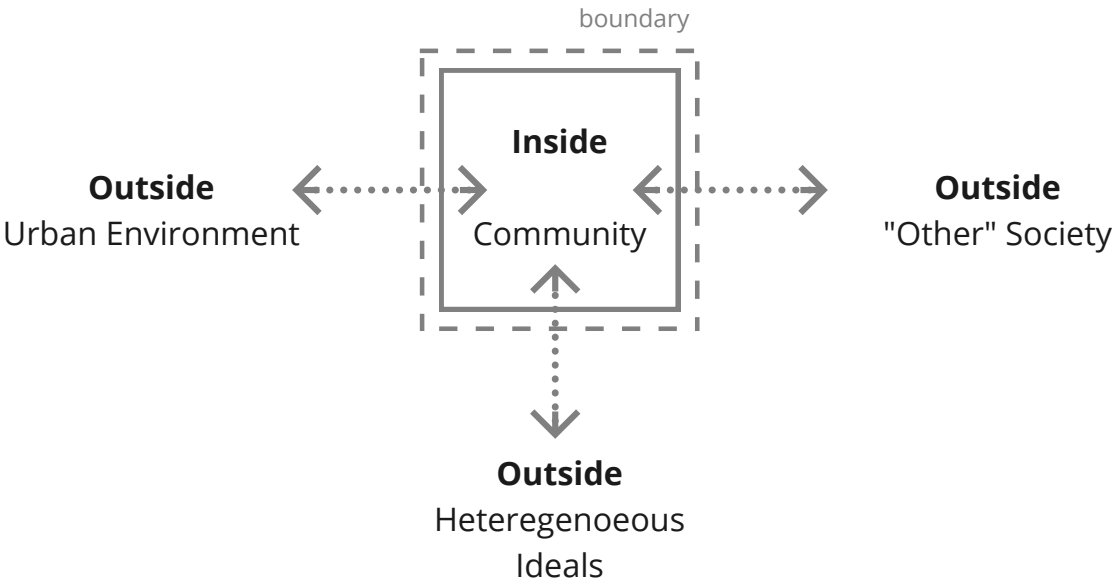
Spatial Design



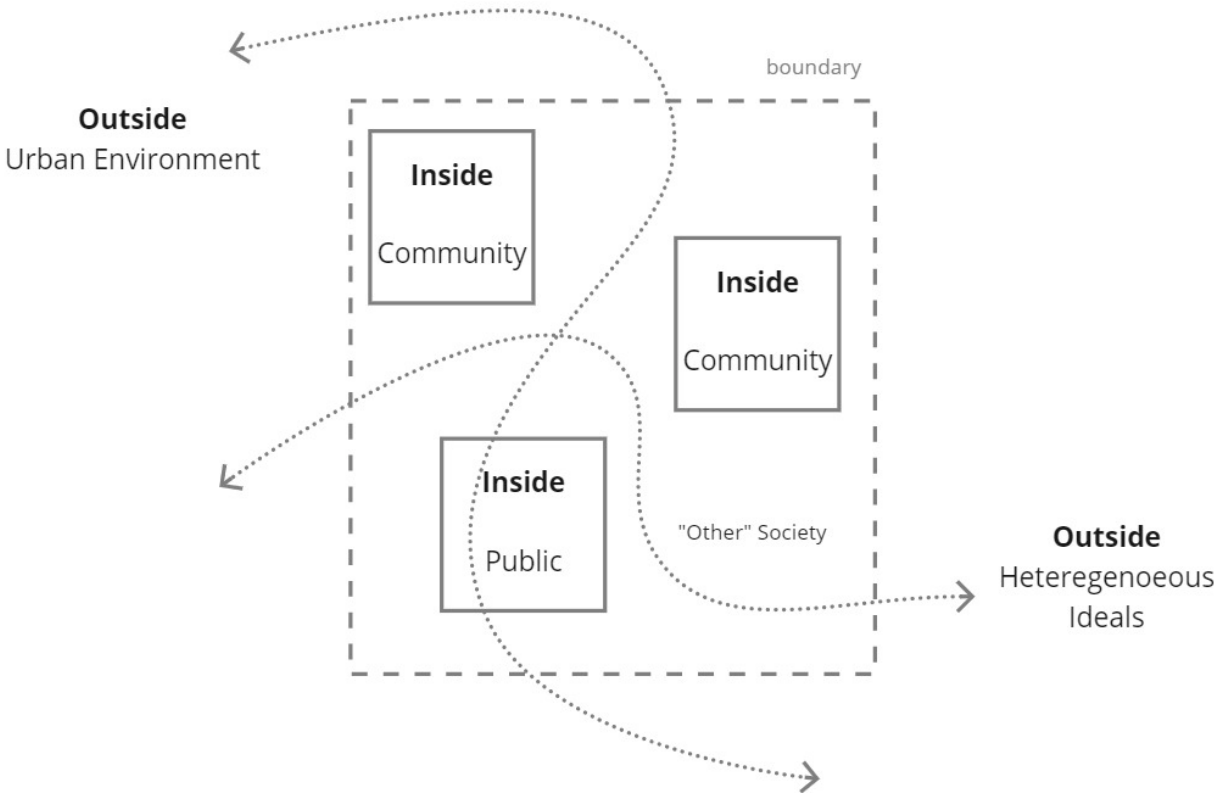
Organization
& Process



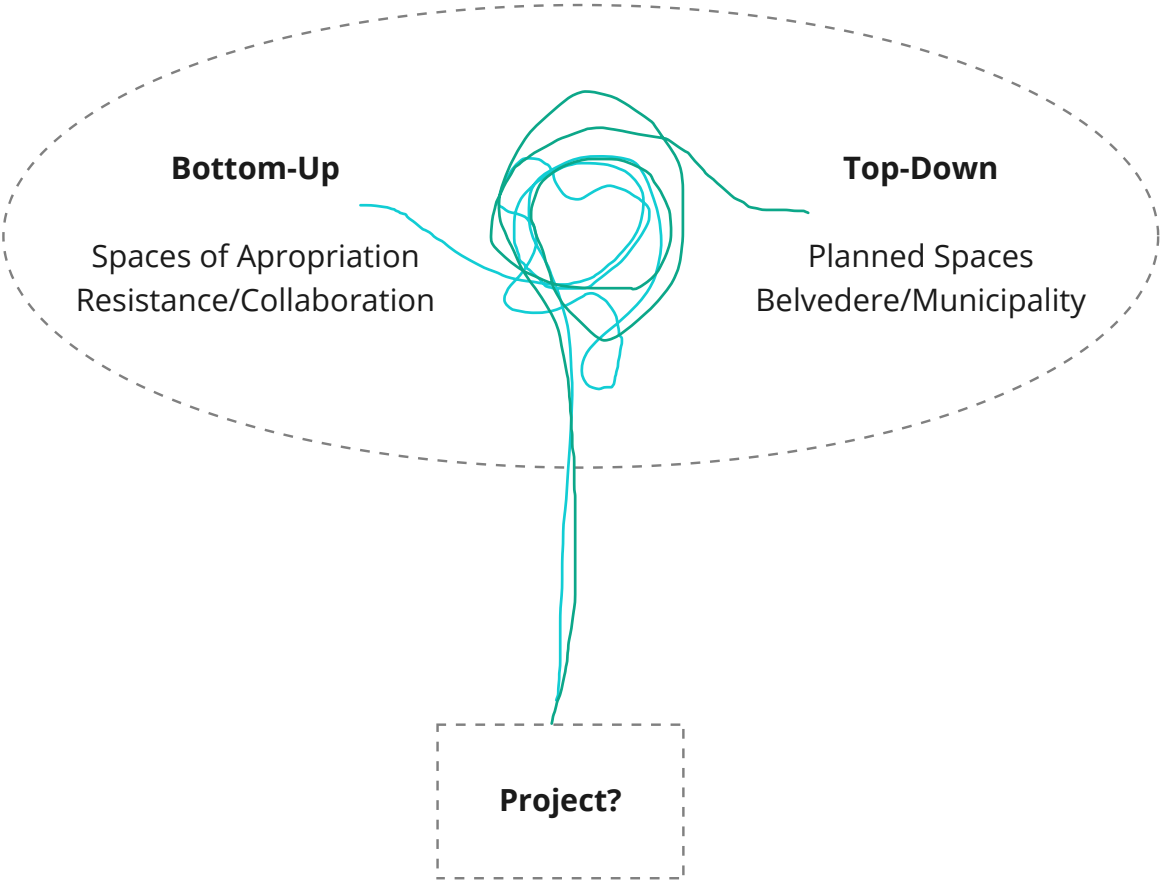
Architectural Proposal: **spatial analysis as LBB**



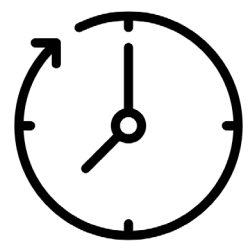
Architectural Proposal: **spatial concept**



Architectural Proposal: **concept of organization & management**



**incremental
upgrading**



improvisation



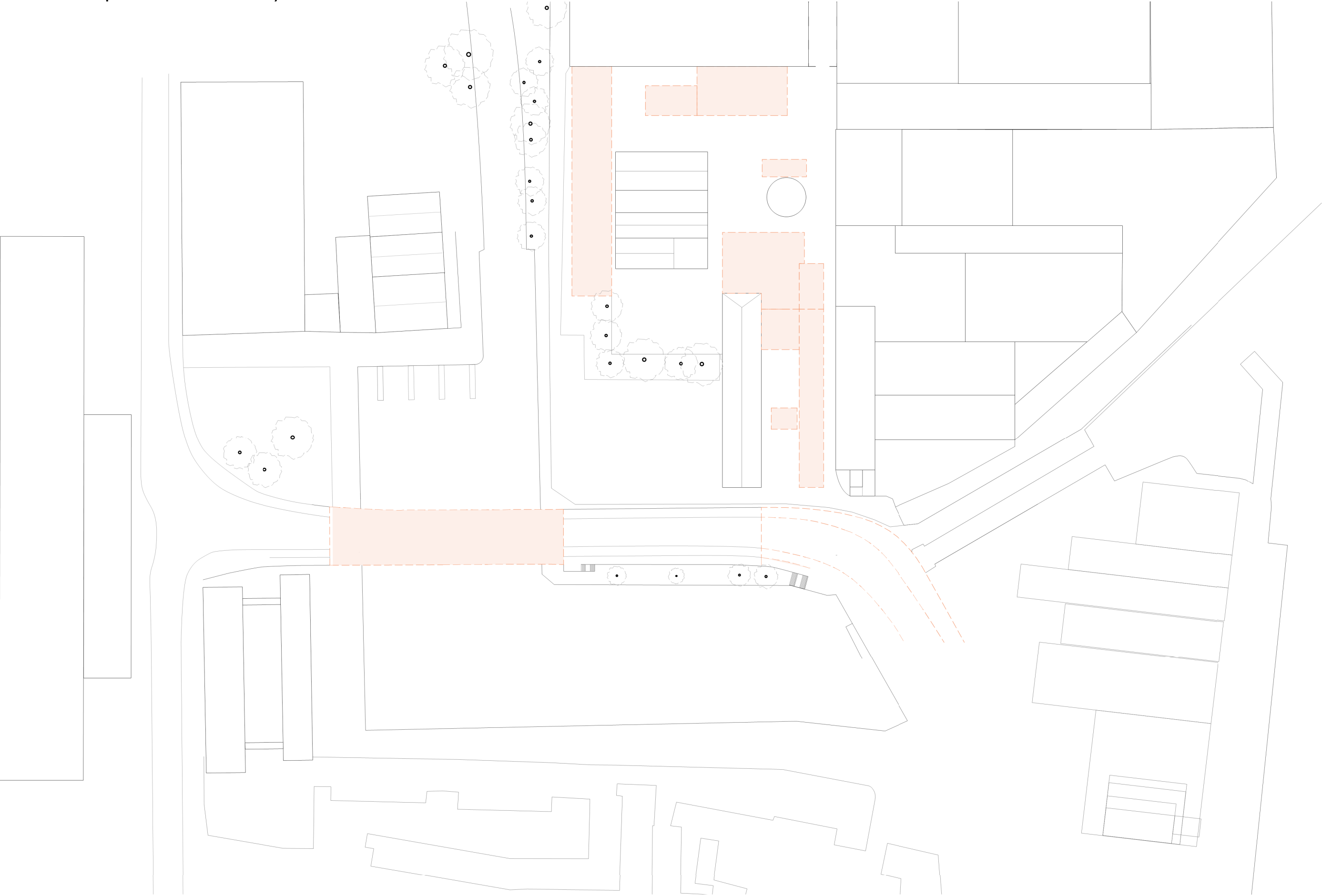
**crowdfunding
& social currency**



Architectural Proposal: **Site in current condition**



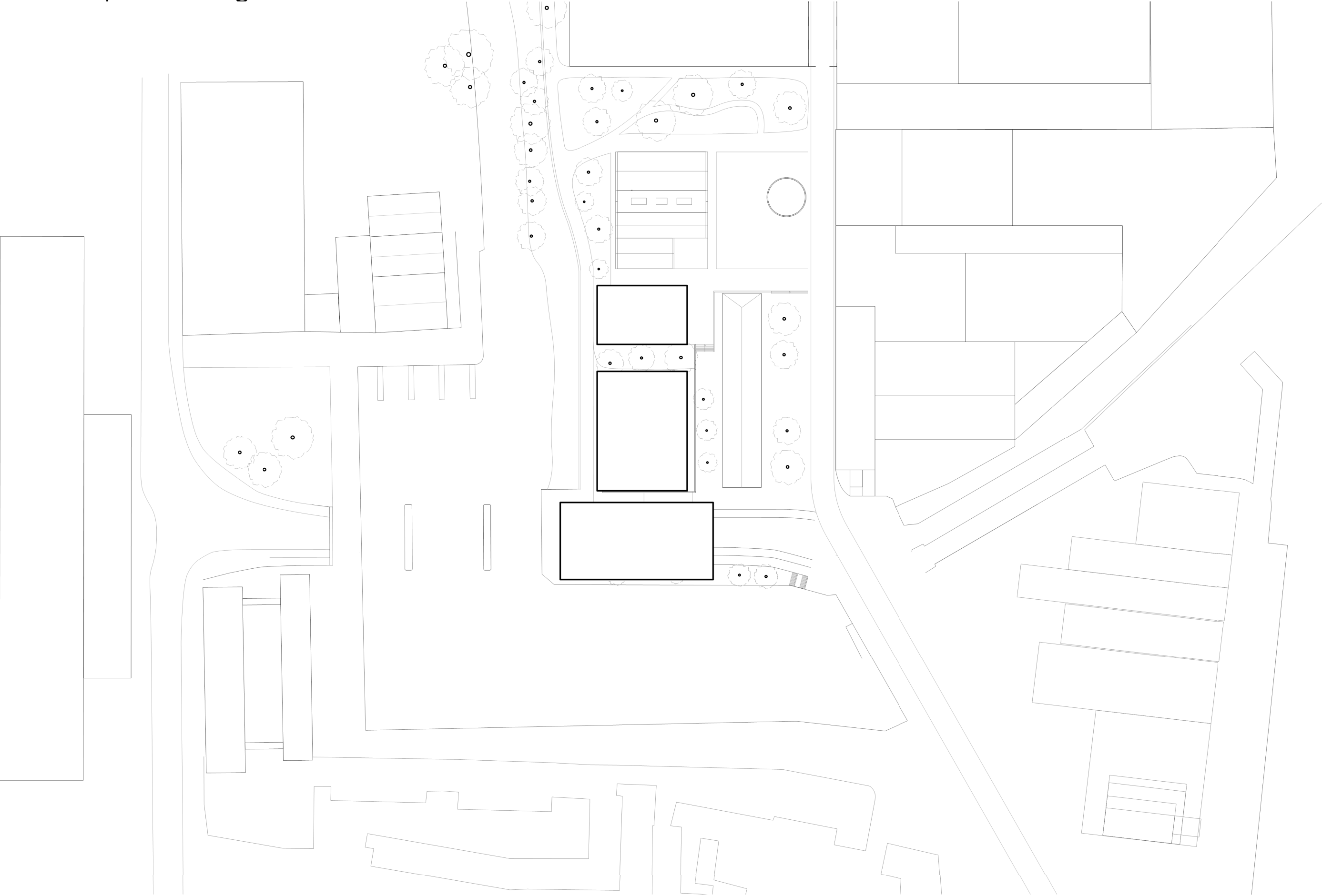
Architectural Proposal: **Demolition/Deconstruction**



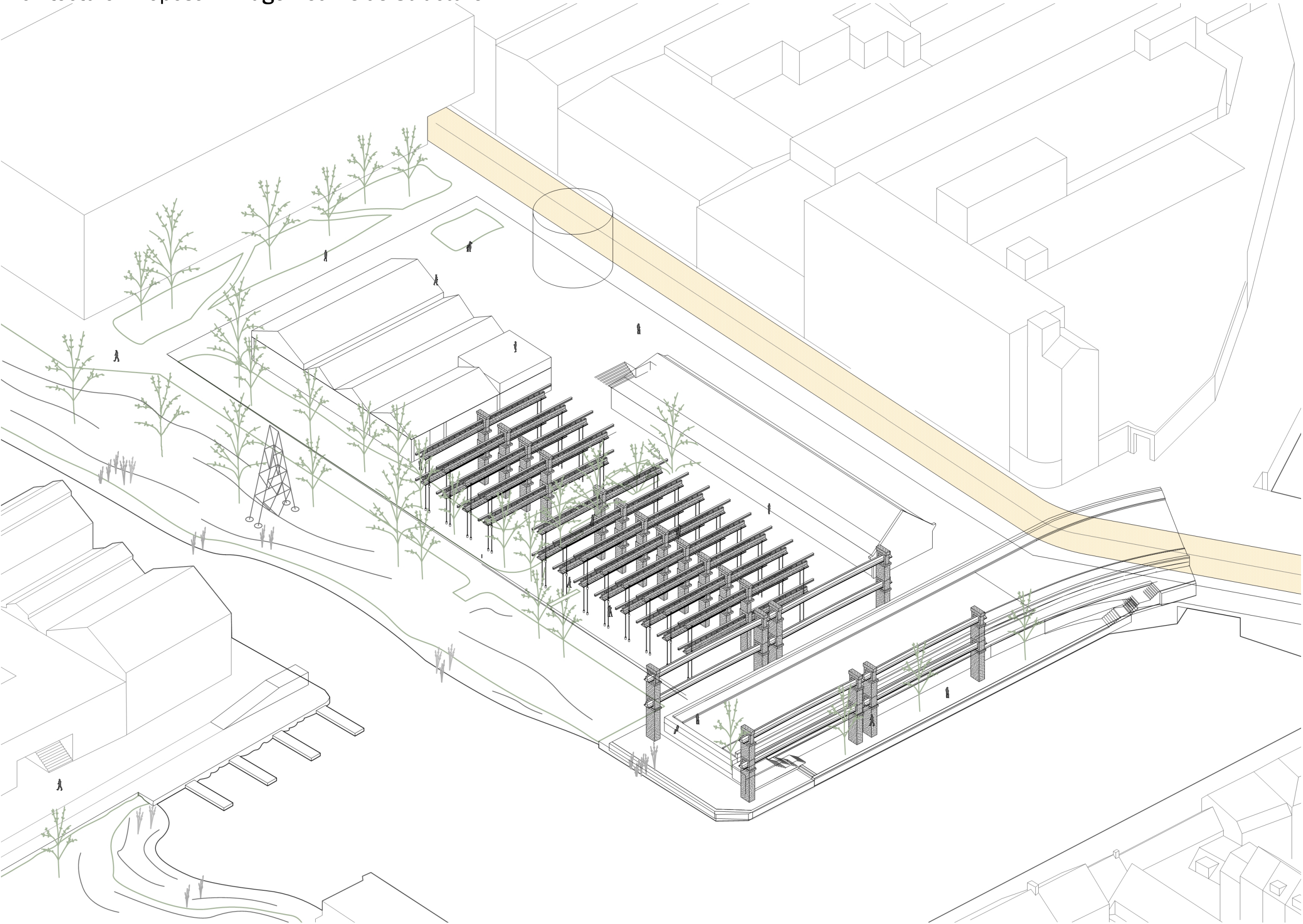
Architectural Proposal: **Landscaping**



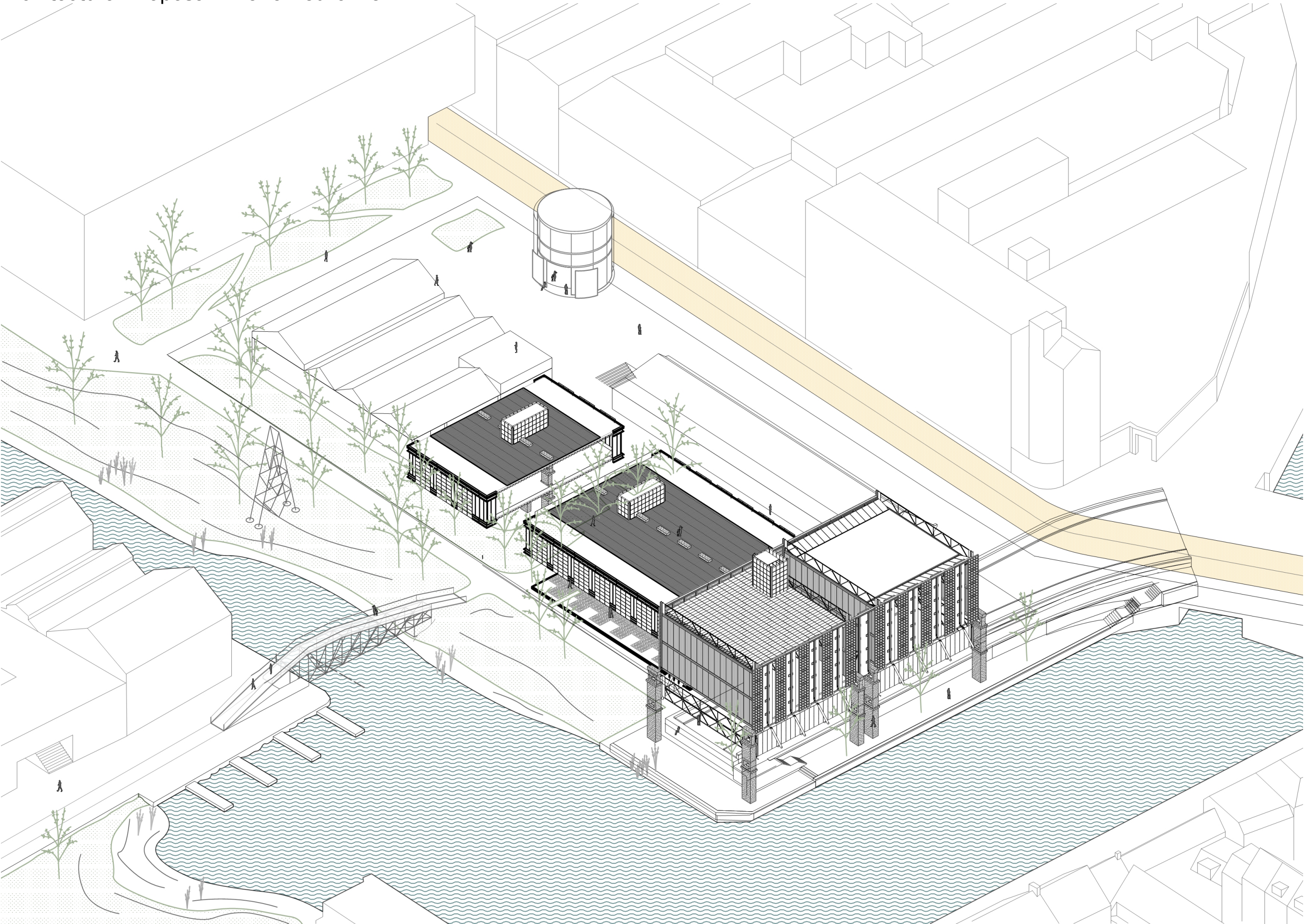
Architectural Proposal: **Building Outlines**



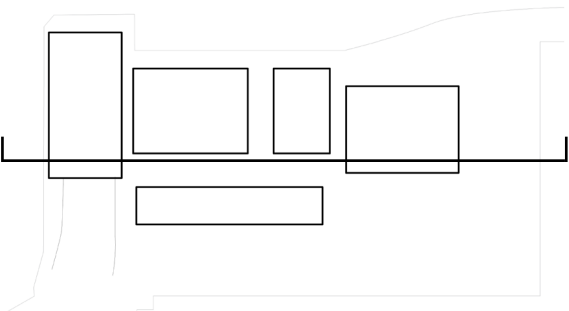
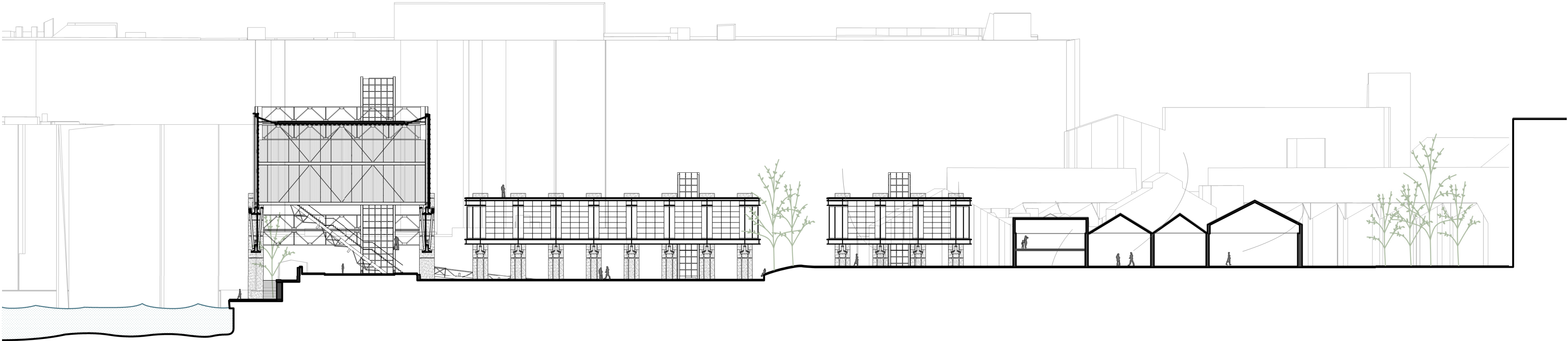
Architectural Proposal: **Bridge Beams as Structure**



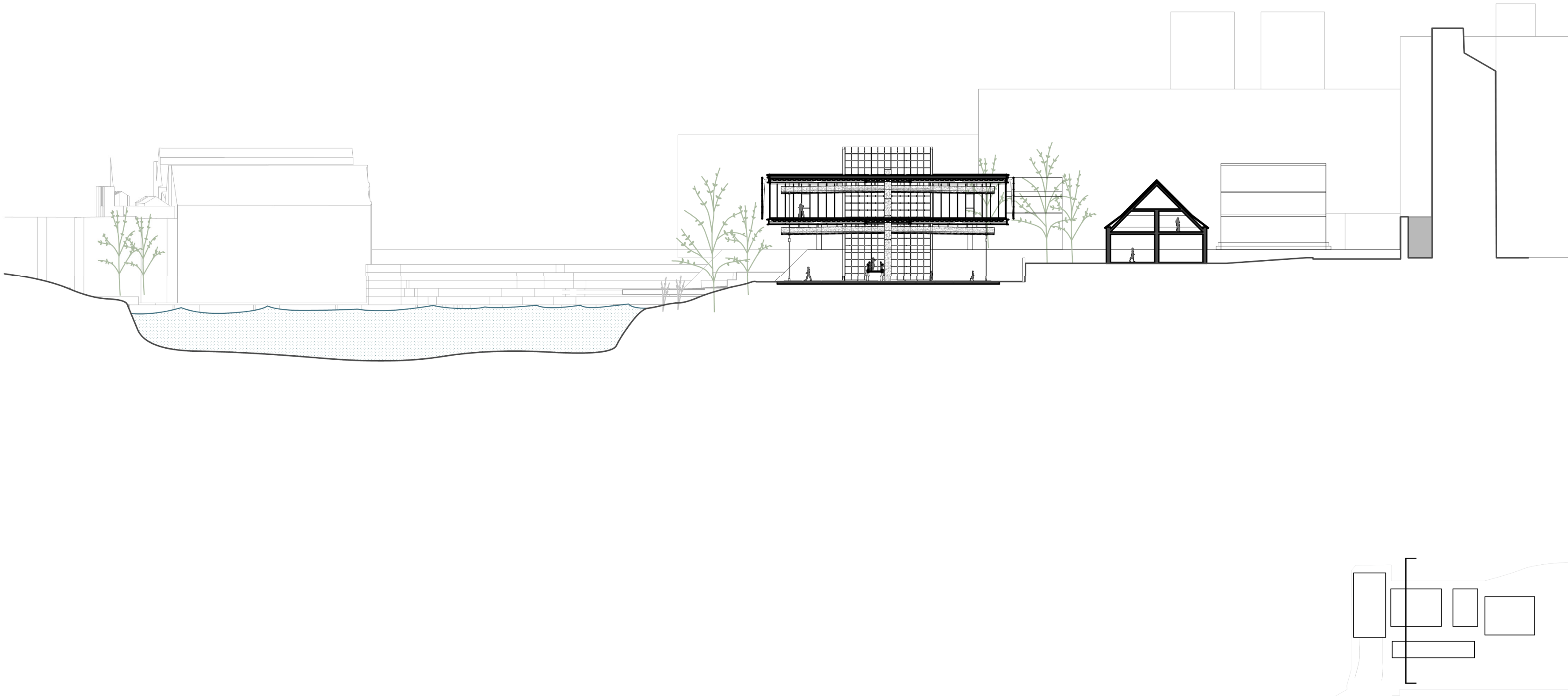
Architectural Proposal: Axonometric View



Section: Urban Context

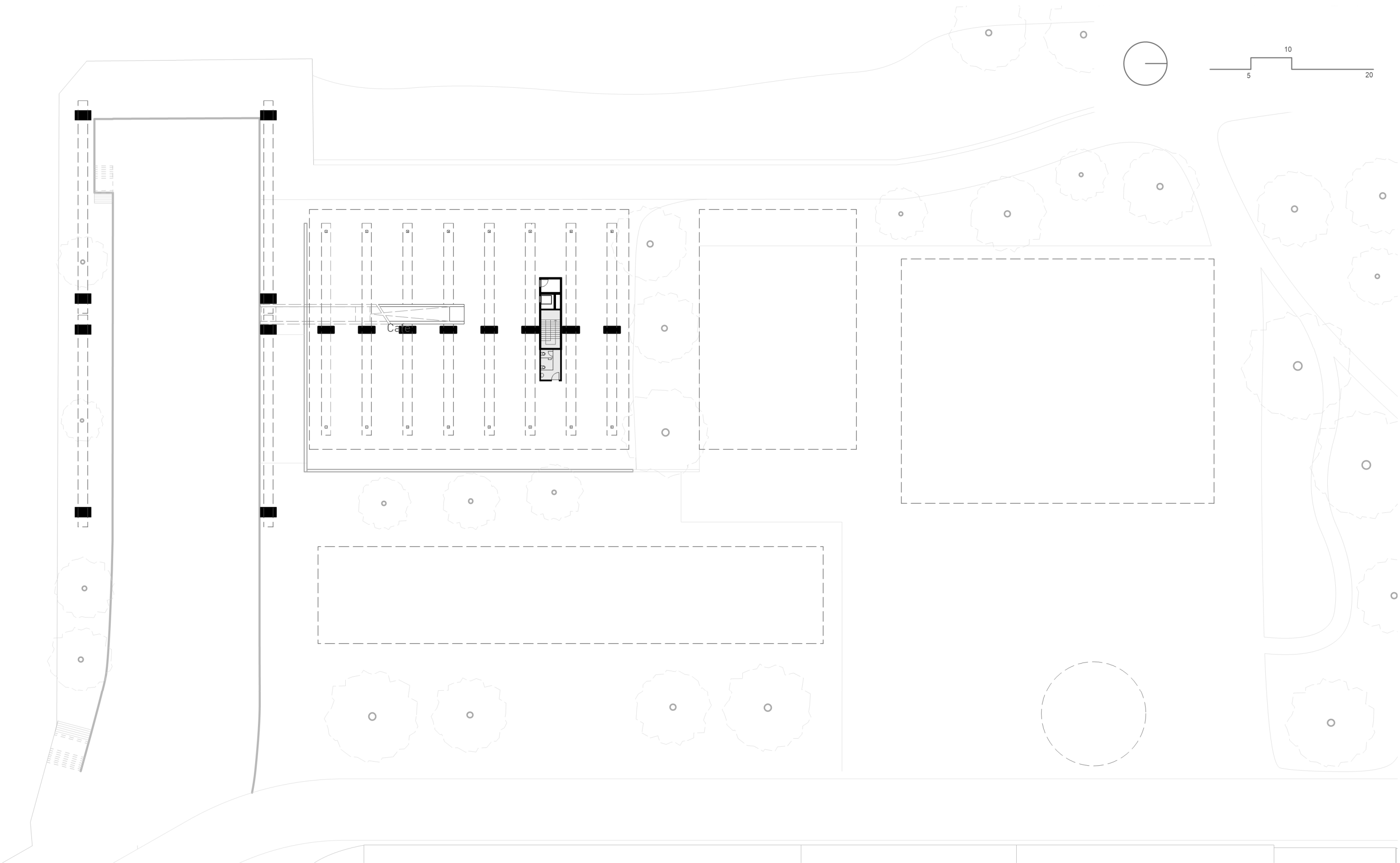


Section: Urban Context



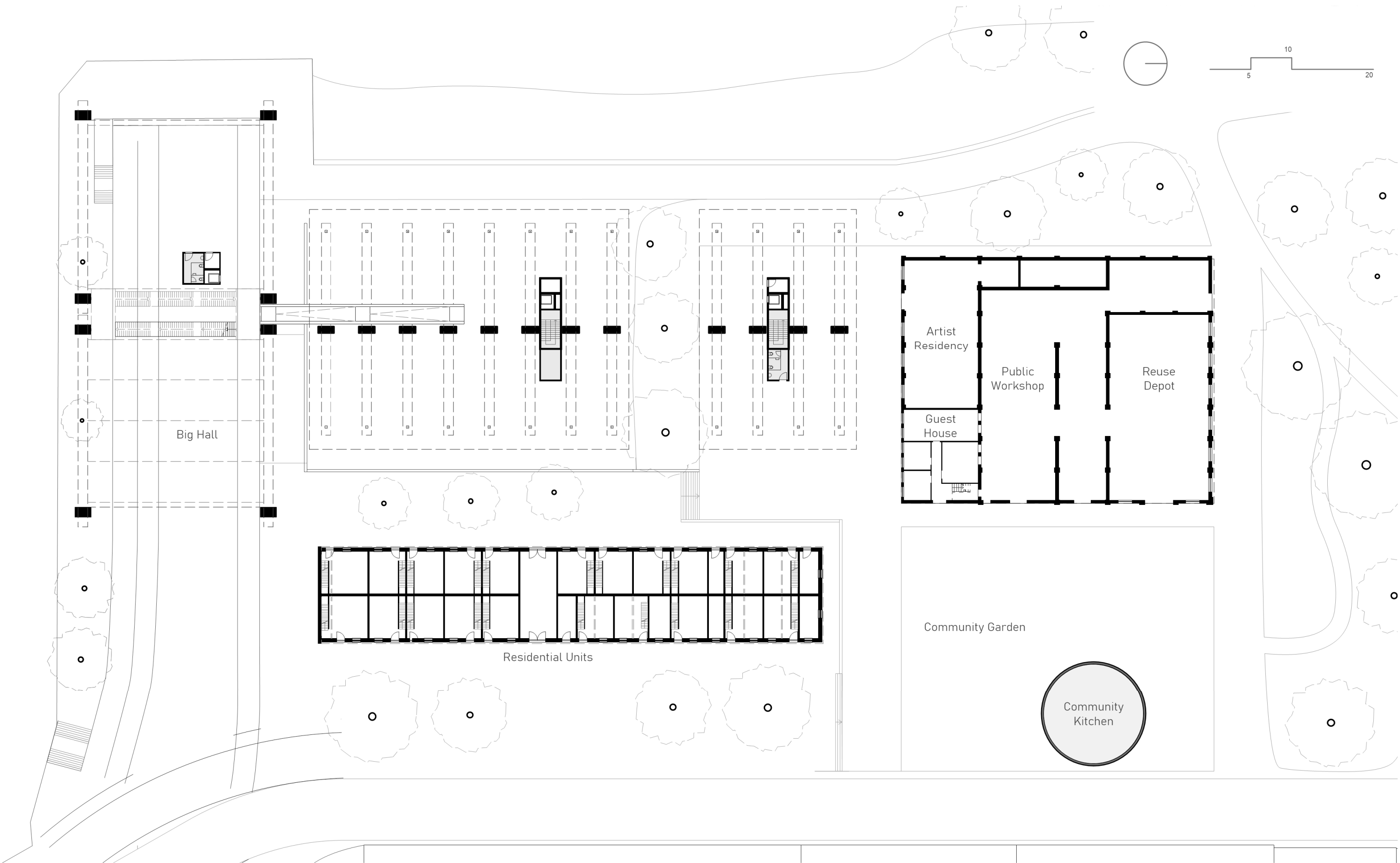
Floor Plans: **Level 0**

Level 4	
Forum_Public Roof	400m²
Level 3	
Forum_interior	400m²
Building II_Public Roof	1000m²
Level 2	
Building II_interior	1000m²
Building III_interior	500m²
Artist Residency	75²
Guest House	90m²
Residential Units	600m²
Level 1	
Forum_bridge level	840m²
Residential Units	700m²
Artist Residency	150m²
Guest House	90m²
Public Workshop	450m²
Reuse Depot	270m²
Community Kitchen	120m²
Community Garden	400m²
Level 0	
Building II_exterior	1100m²
Total	9150m²



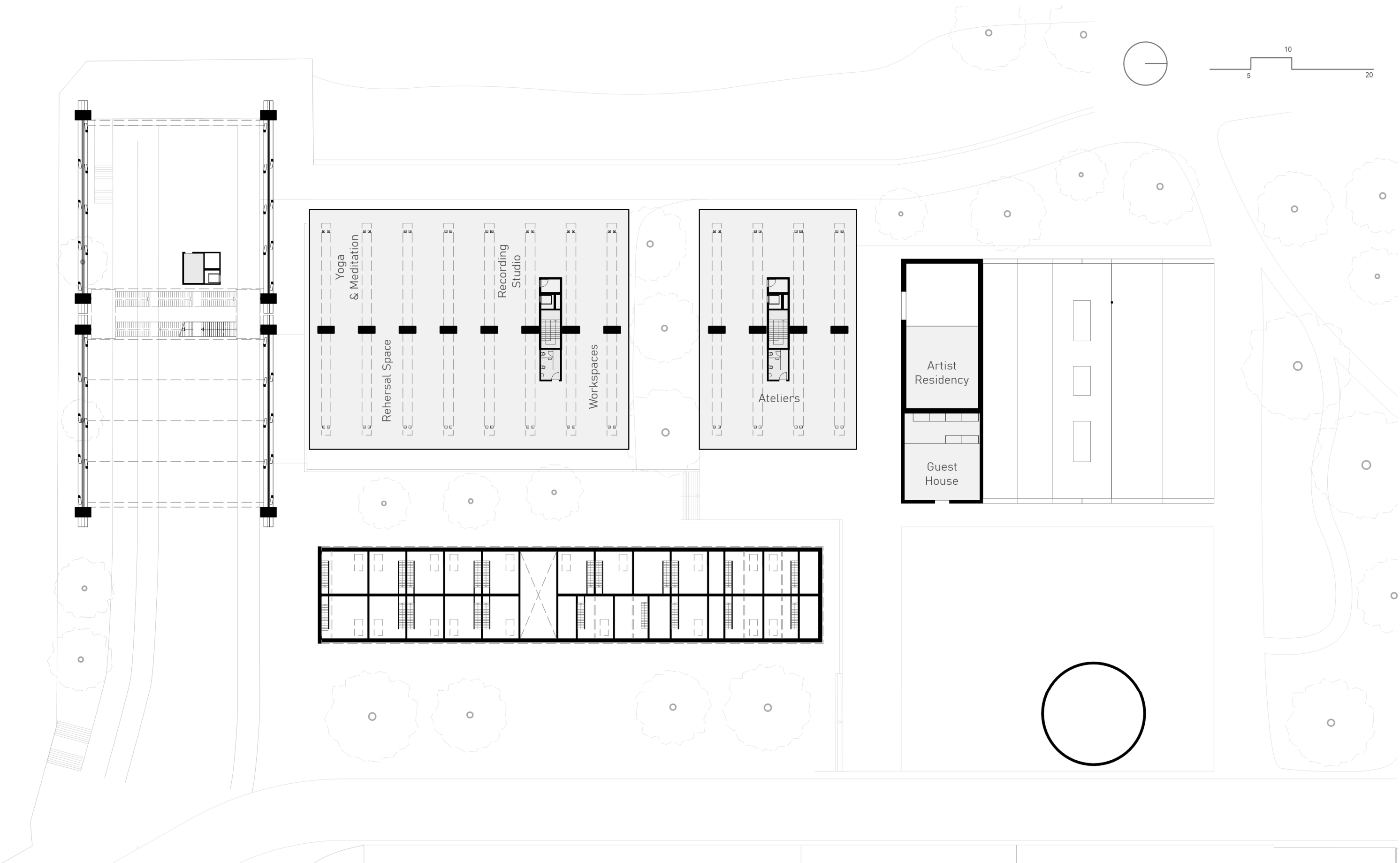
Floor Plans: **Level 1**

Level 4		
Forum_Public Roof	400m ²	
Level 3		
Forum_interior	400m ²	
Building II_Public Roof	1000m ²	
Level 2		
Building II_interior	1000m ²	
Building III_interior	500m ²	
Artist Residency	75 ²	
Guest House	90m ²	
Residential Units	600m ²	
Level 1		
Forum_bridge level	840m ²	
Residential Units	700m ²	
Artist Residency	150m ²	
Guest House	90m ²	
Public Workshop	450m ²	
Reuse Depot	270m ²	
Community Kitchen	120m ²	
Community Garden	400m ²	
Level 0		
Building II_exterior	1100m ²	
Total	9150m ²	



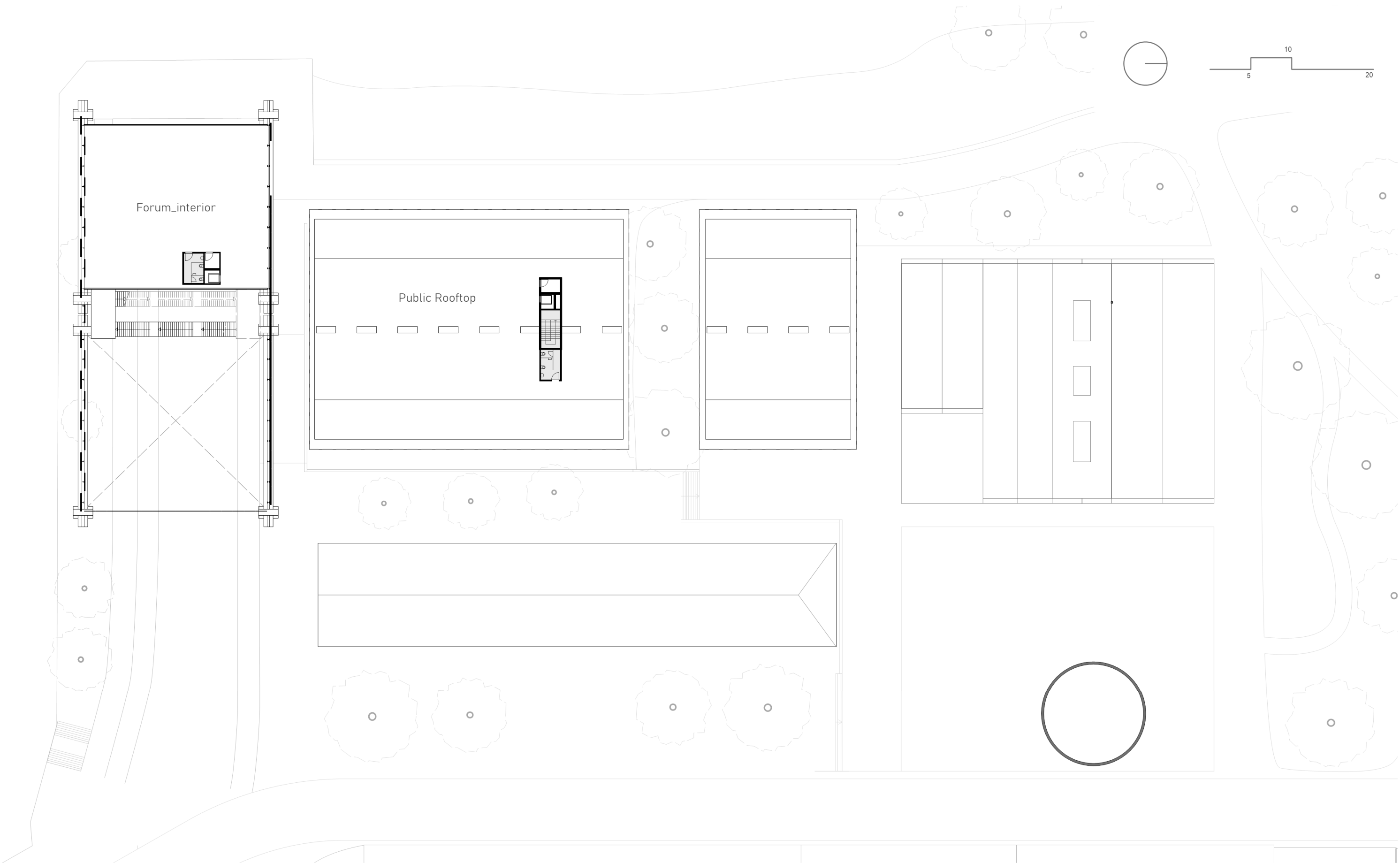
Floor Plans: **Level 2**

Level 4		
Forum_Public Roof	400m ²	
Level 3		
Forum_interior	400m ²	
Building II_Public Roof	1000m ²	
Level 2		
Building II_interior	1000m ²	
Building III_interior	500m ²	
Artist Residency	75 ²	
Guest House	90m ²	
Residential Units	600m ²	
Level 1		
Forum_bridge level	840m ²	
Residential Units	700m ²	
Artist Residency	150m ²	
Guest House	90m ²	
Public Workshop	450m ²	
Reuse Depot	270m ²	
Community Kitchen	120m ²	
Community Garden	400m ²	
Level 0		
Building II_exterior	1100m ²	
Total	9150m ²	



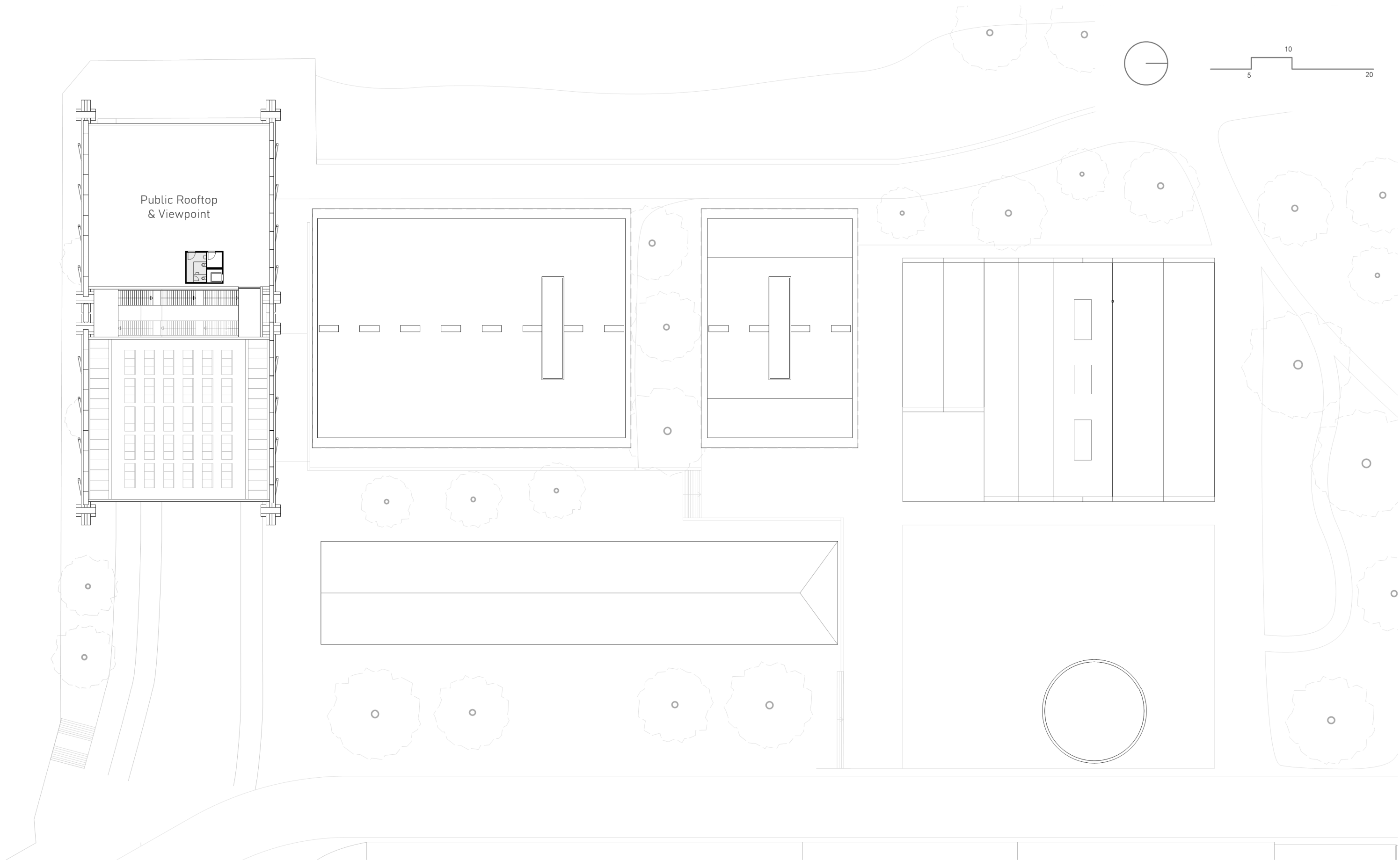
Floor Plans: **Level 3**

Level 4		
Forum_Public Roof	400m²	
Level 3		
Forum_interior	400m²	
Building II_Public Roof	1000m²	
Level 2		
Building II_interior	1000m²	
Building III_interior	500m²	
Artist Residency	75²	
Guest House	90m²	
Residential Units	600m²	
Level 1		
Forum_bridge level	840m²	
Residential Units	700m²	
Artist Residency	150m²	
Guest House	90m²	
Public Workshop	450m²	
Reuse Depot	270m²	
Community Kitchen	120m²	
Community Garden	400m²	
Level 0		
Building II_exterior	1100m²	
Total	9150m²	

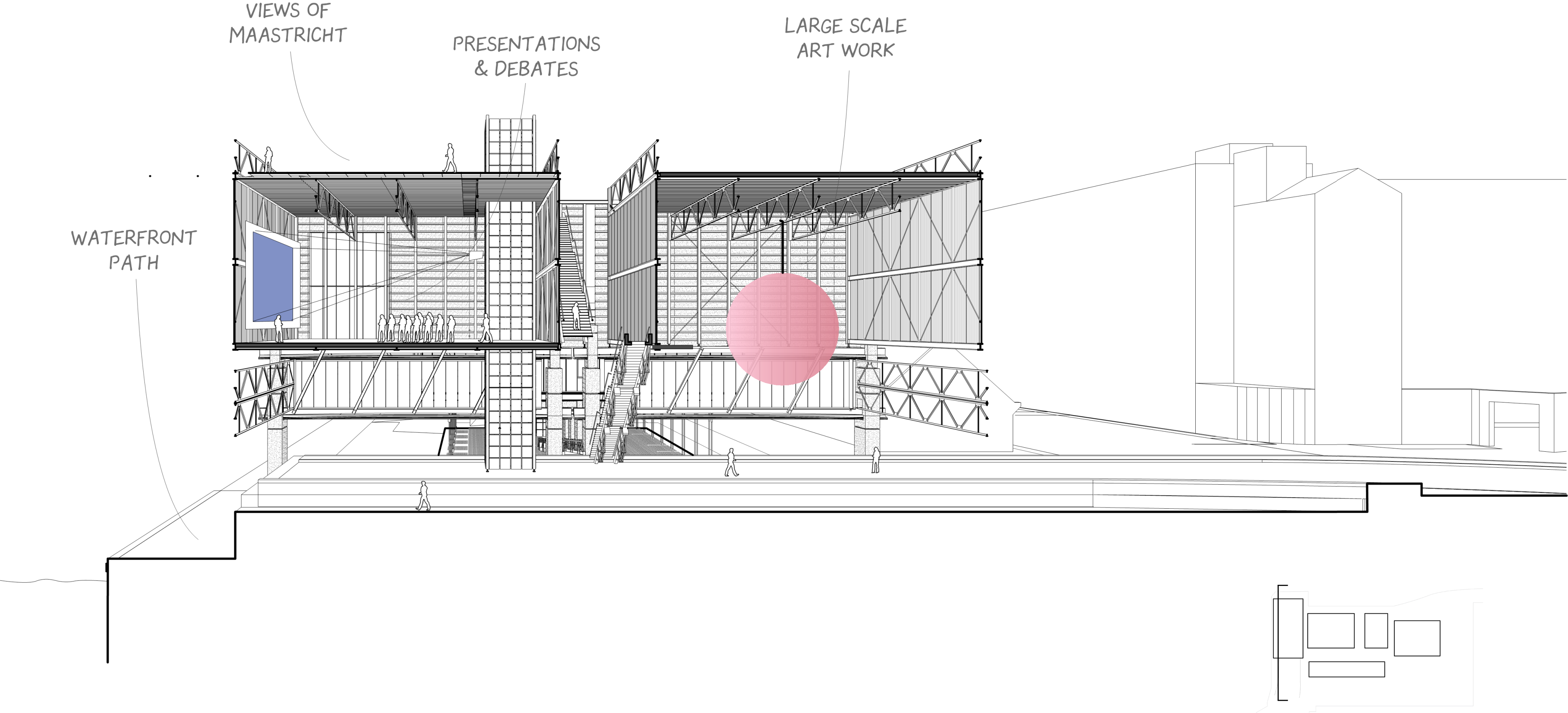


Floor Plans: **Level 4**

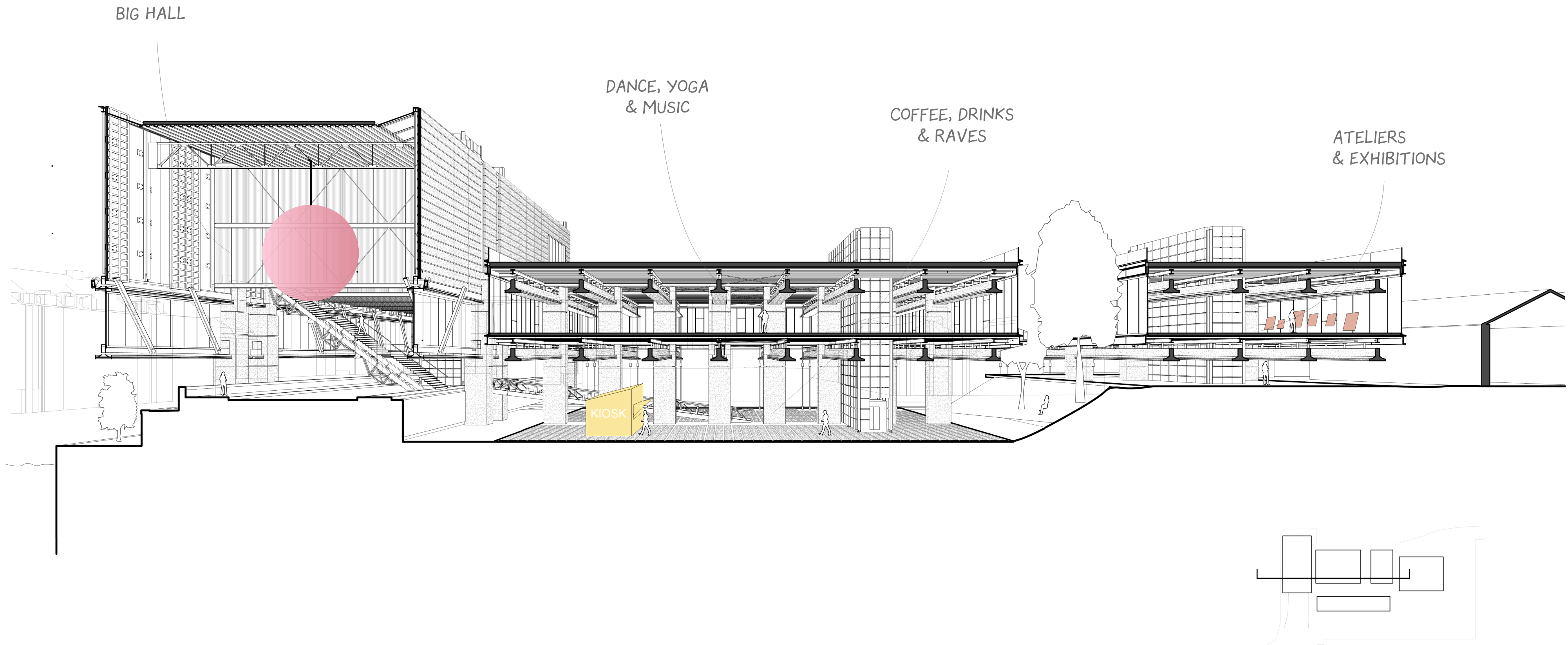
Level 4		
Forum_Public Roof	400m²	
Level 3		
Forum_interior	400m²	
Building II_Public Roof	1000m²	
Level 2		
Building II_interior	1000m²	
Building III_interior	500m²	
Artist Residency	75²	
Guest House	90m²	
Residential Units	600m²	
Level 1		
Forum_bridge level	840m²	
Residential Units	700m²	
Artist Residency	150m²	
Guest House	90m²	
Public Workshop	450m²	
Reuse Depot	270m²	
Community Kitchen	120m²	
Community Garden	400m²	
Level 0		
Building II_exterior	1100m²	
Total	9150m²	



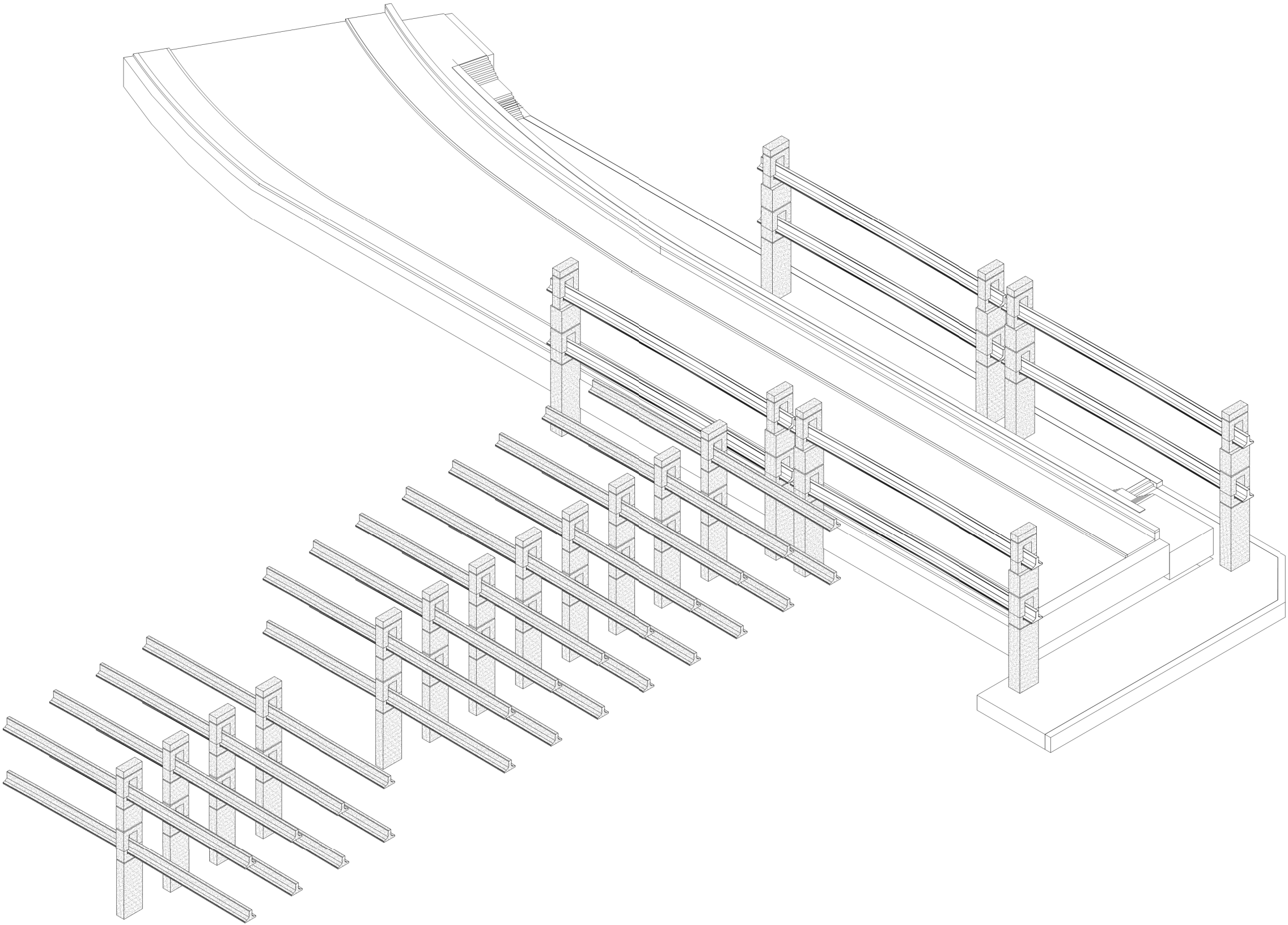
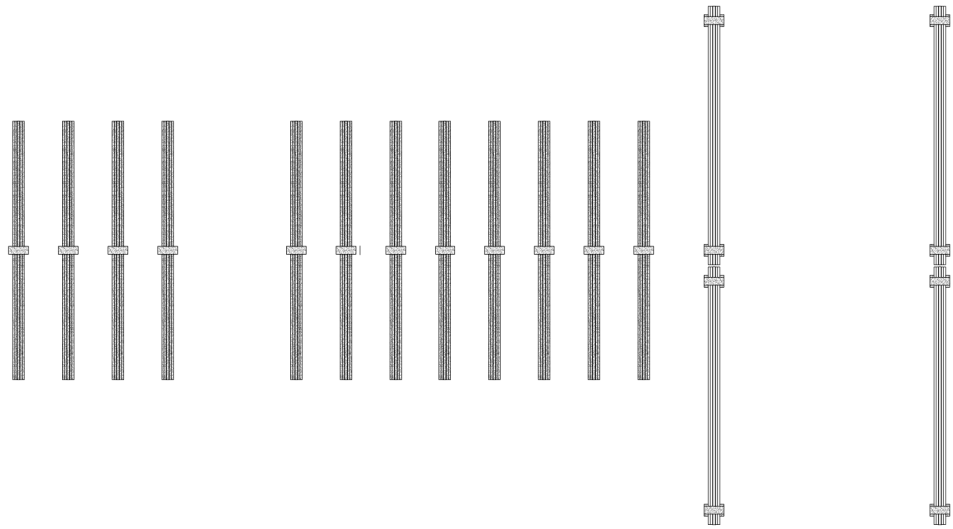
Section: **Big Hall**



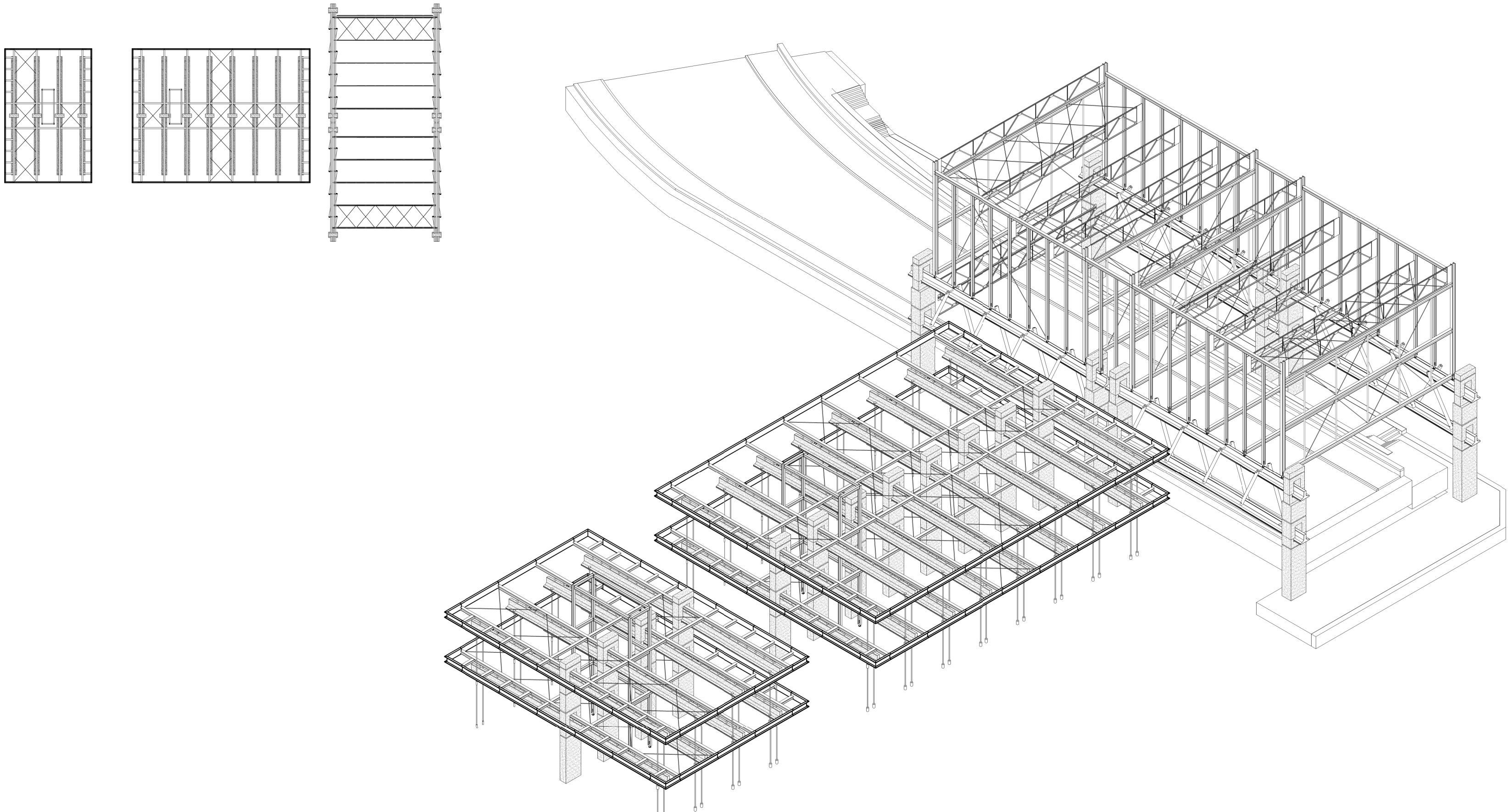
Section: Longitudinal



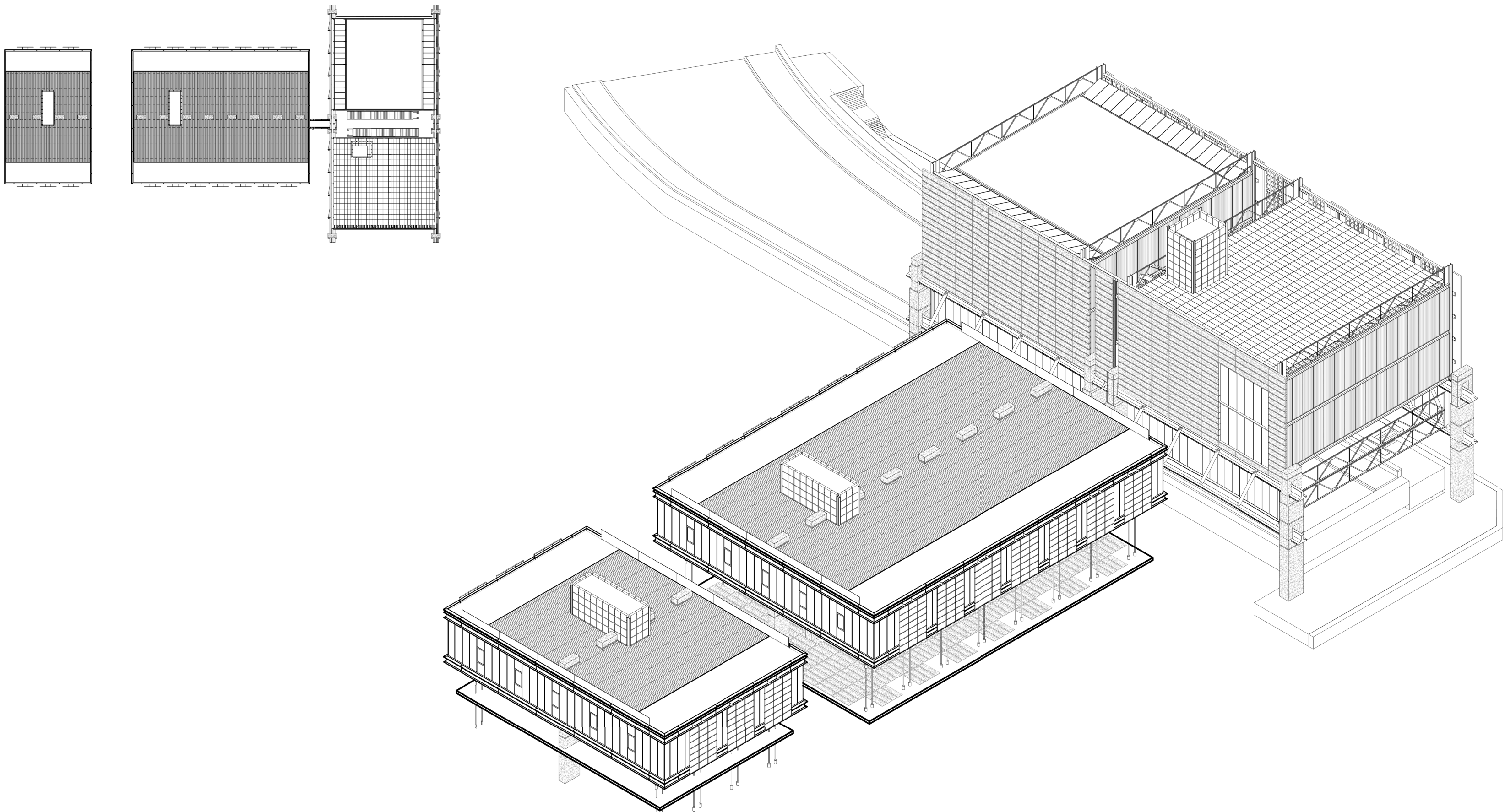
Building Technology: **Concrete Skeleton**



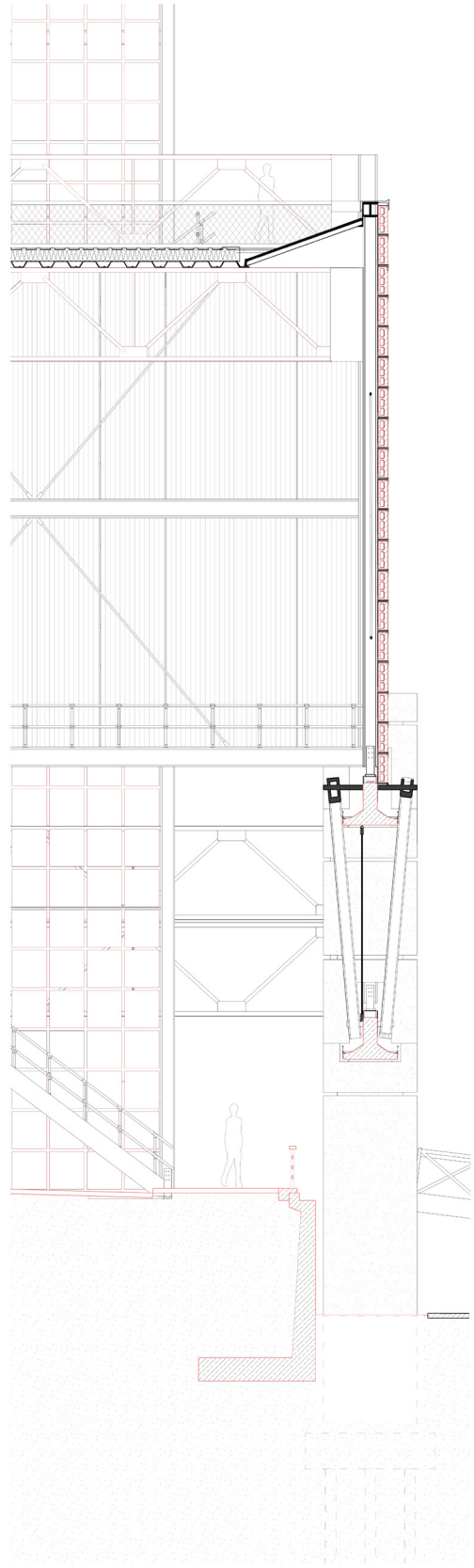
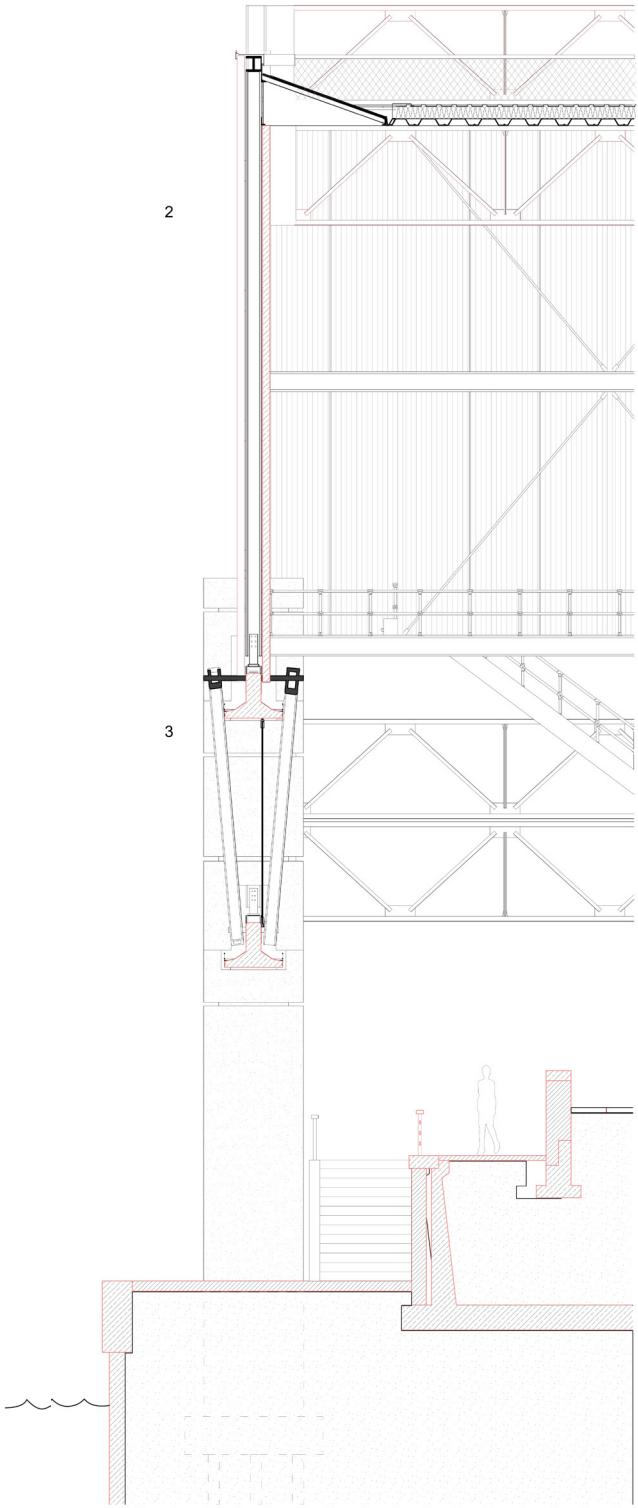
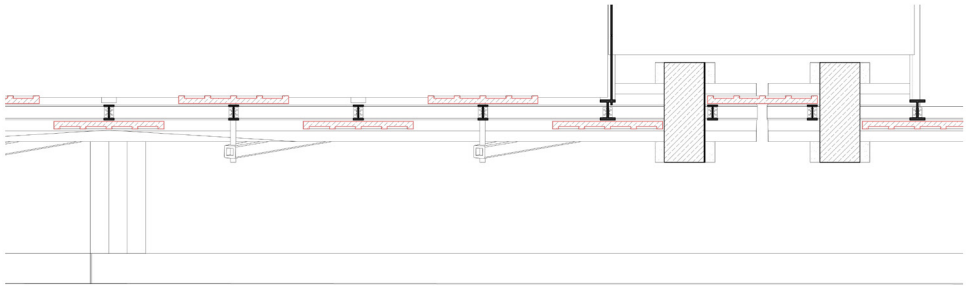
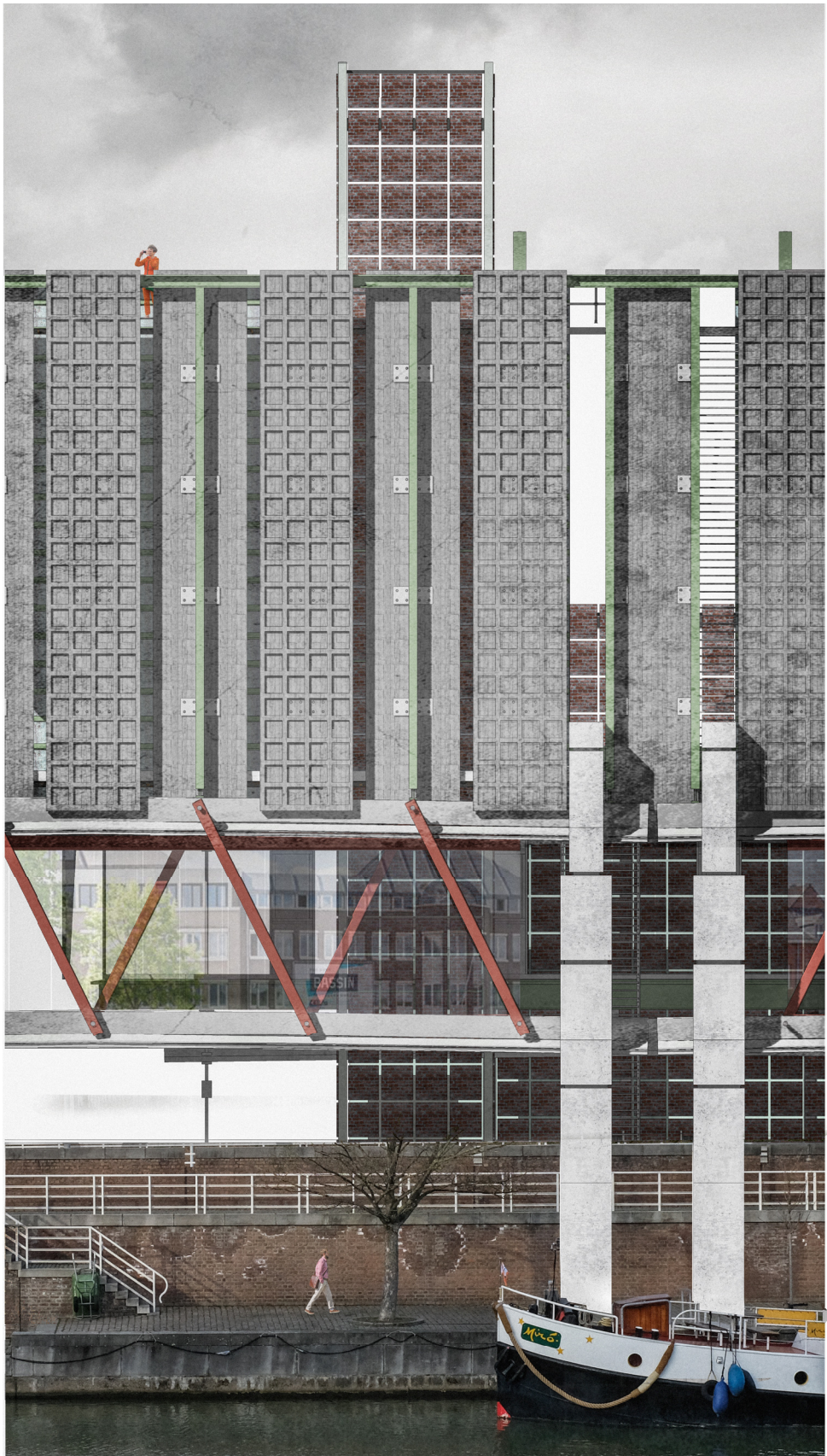
Building Technology: **Steel Additions**



Building Technology: **Complete Structure**



Detail: Exterior Facade of th



Steel Trusses



Concrete Beams



Coffered Concrete Slabs



Concrete Roof Elements

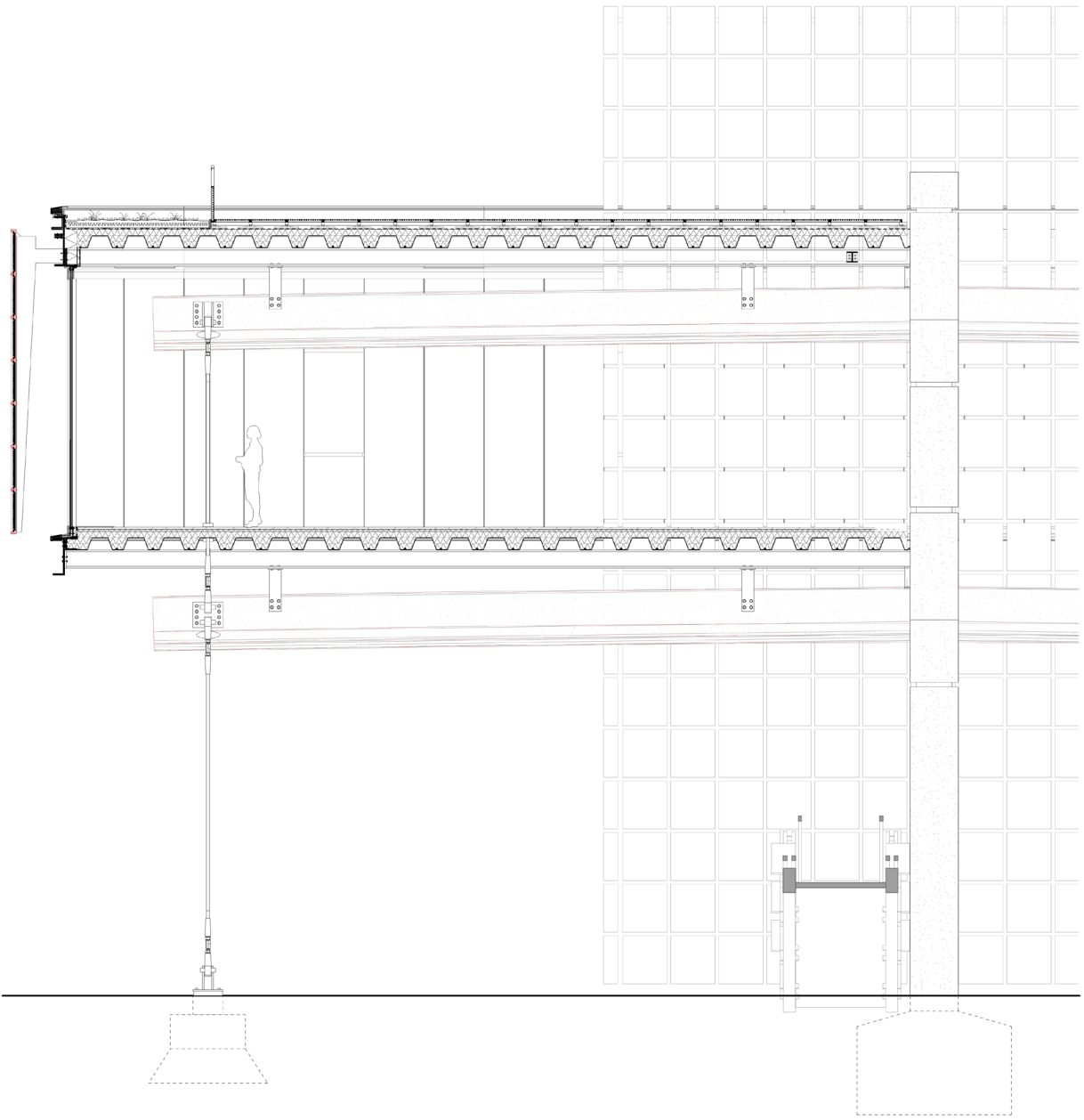


Brick Wall Panels



Maaboulevard

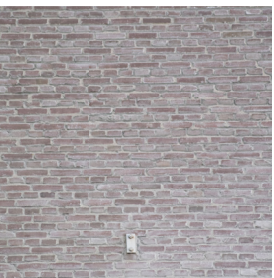
Detail: Exterior Facade of Bui



Concrete Beams



Concrete Roof Elements

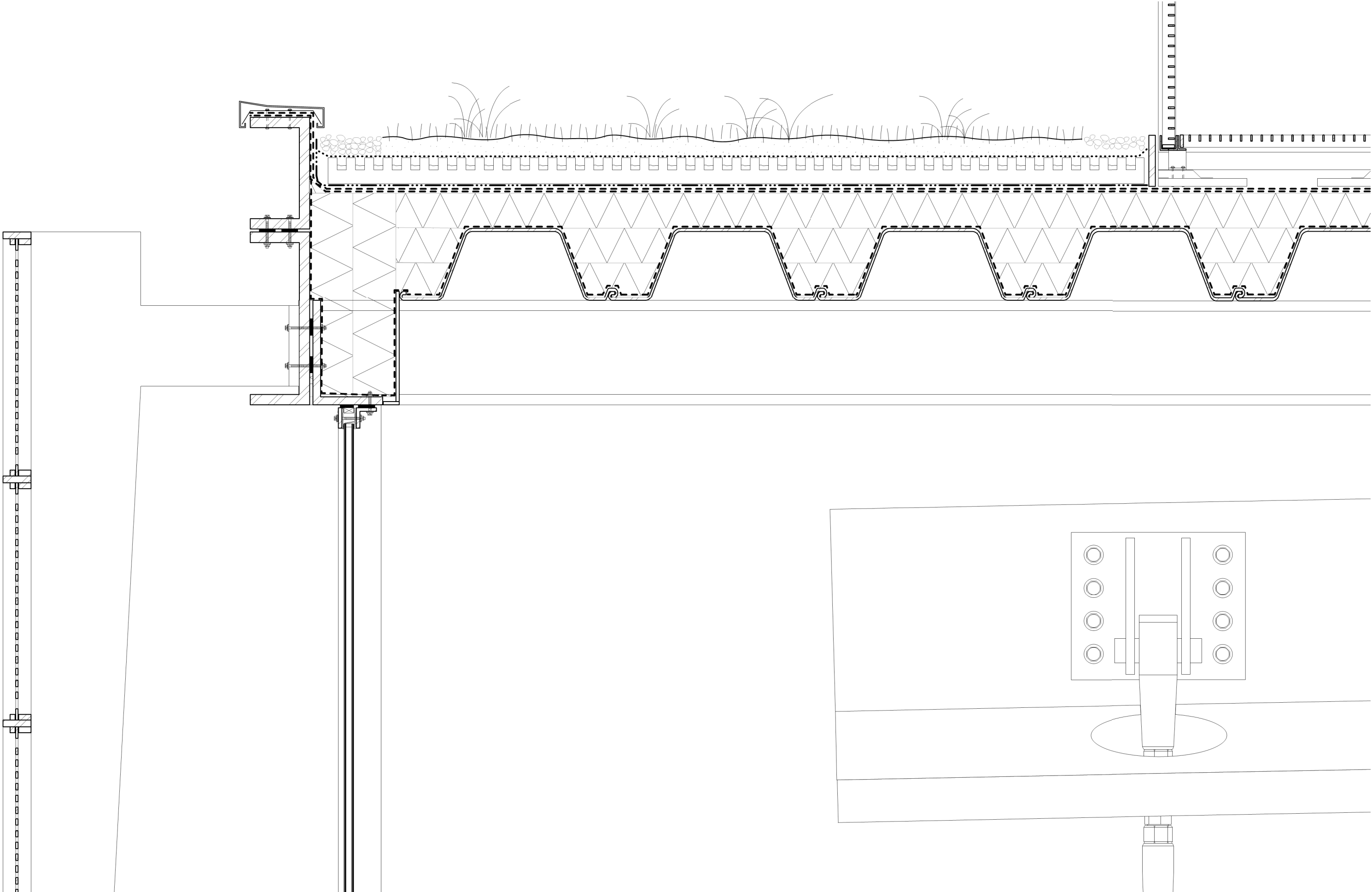


Brick Wall Panels

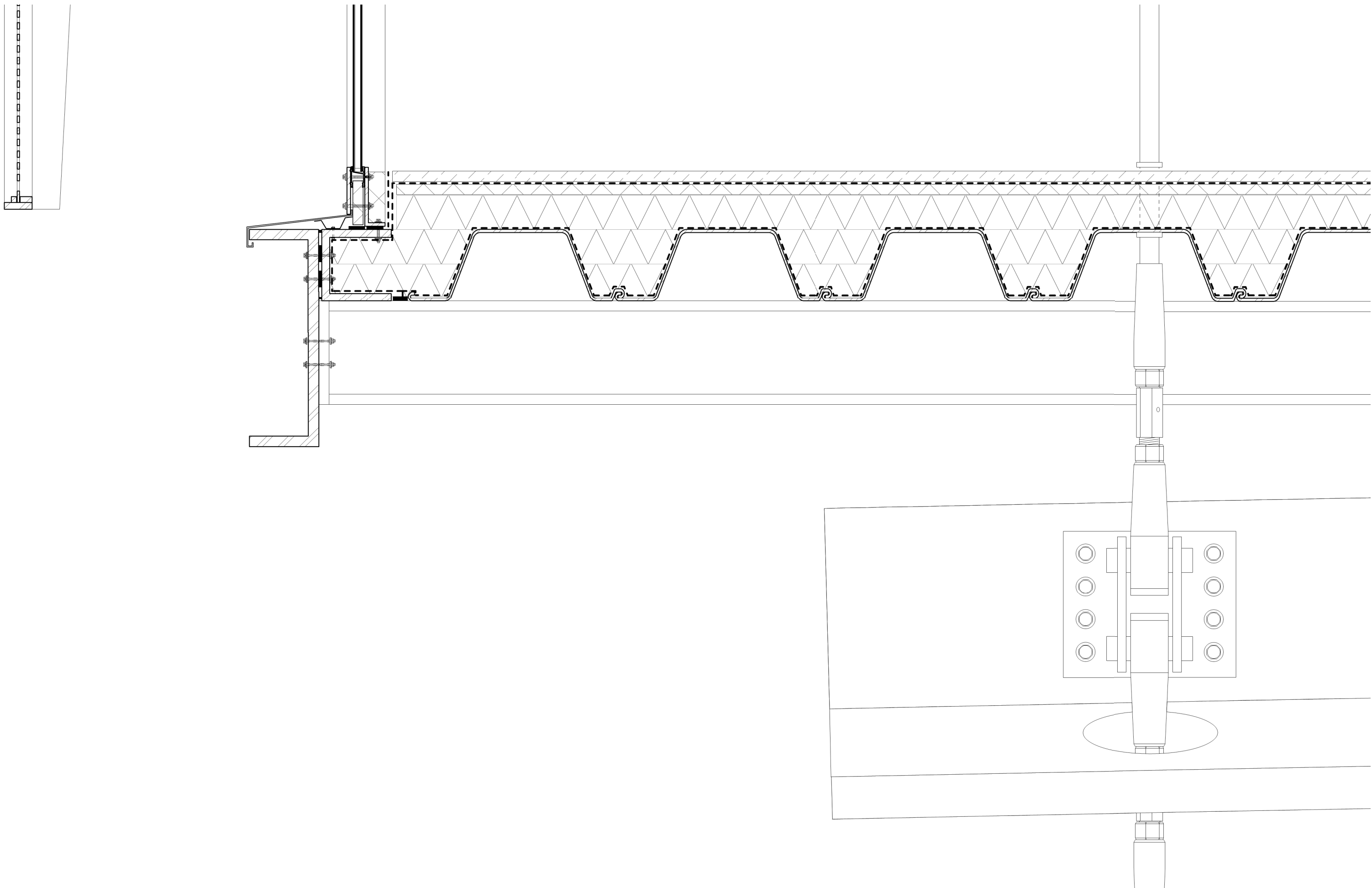


Steel Window Frames

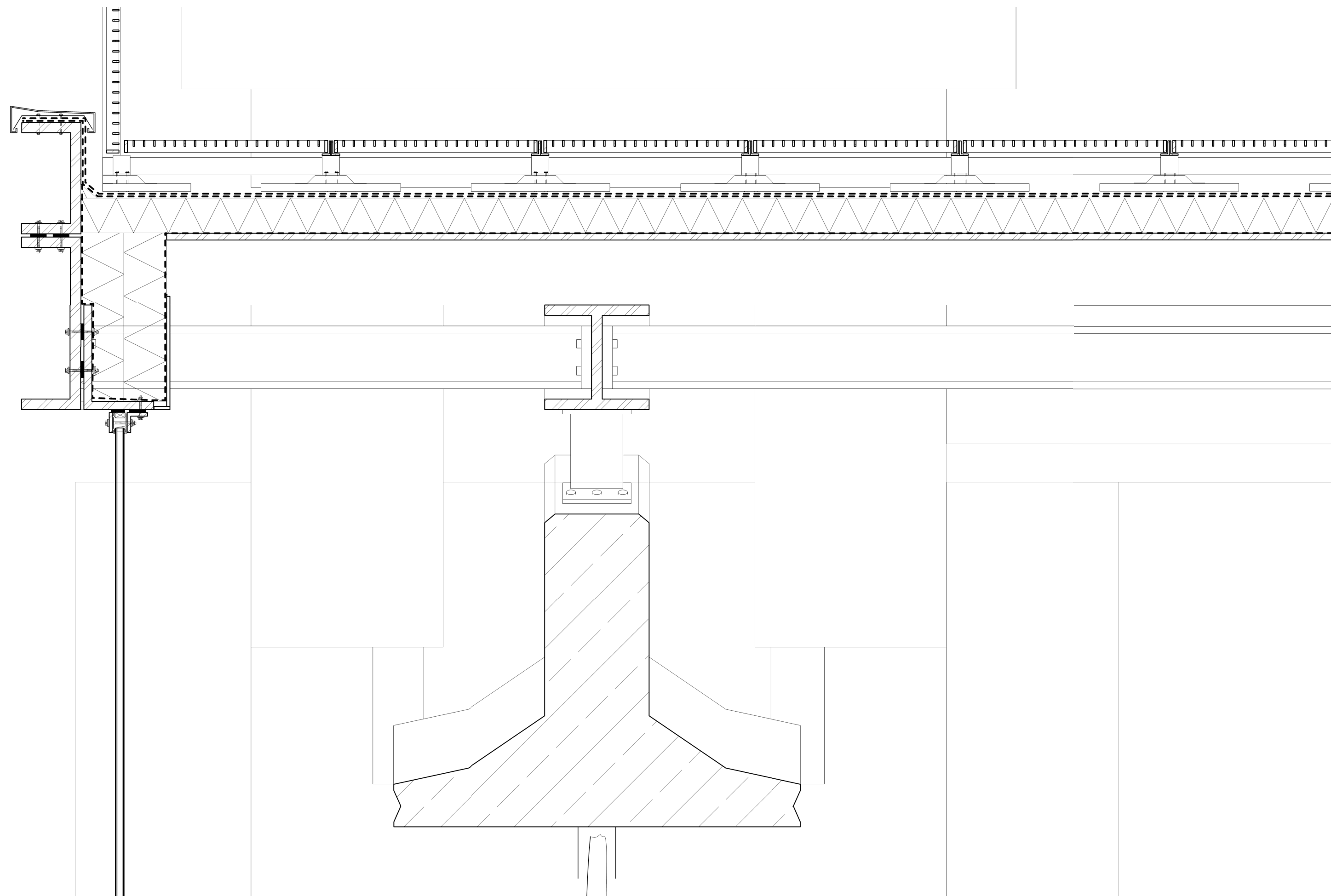
Details 1:5 West Facade



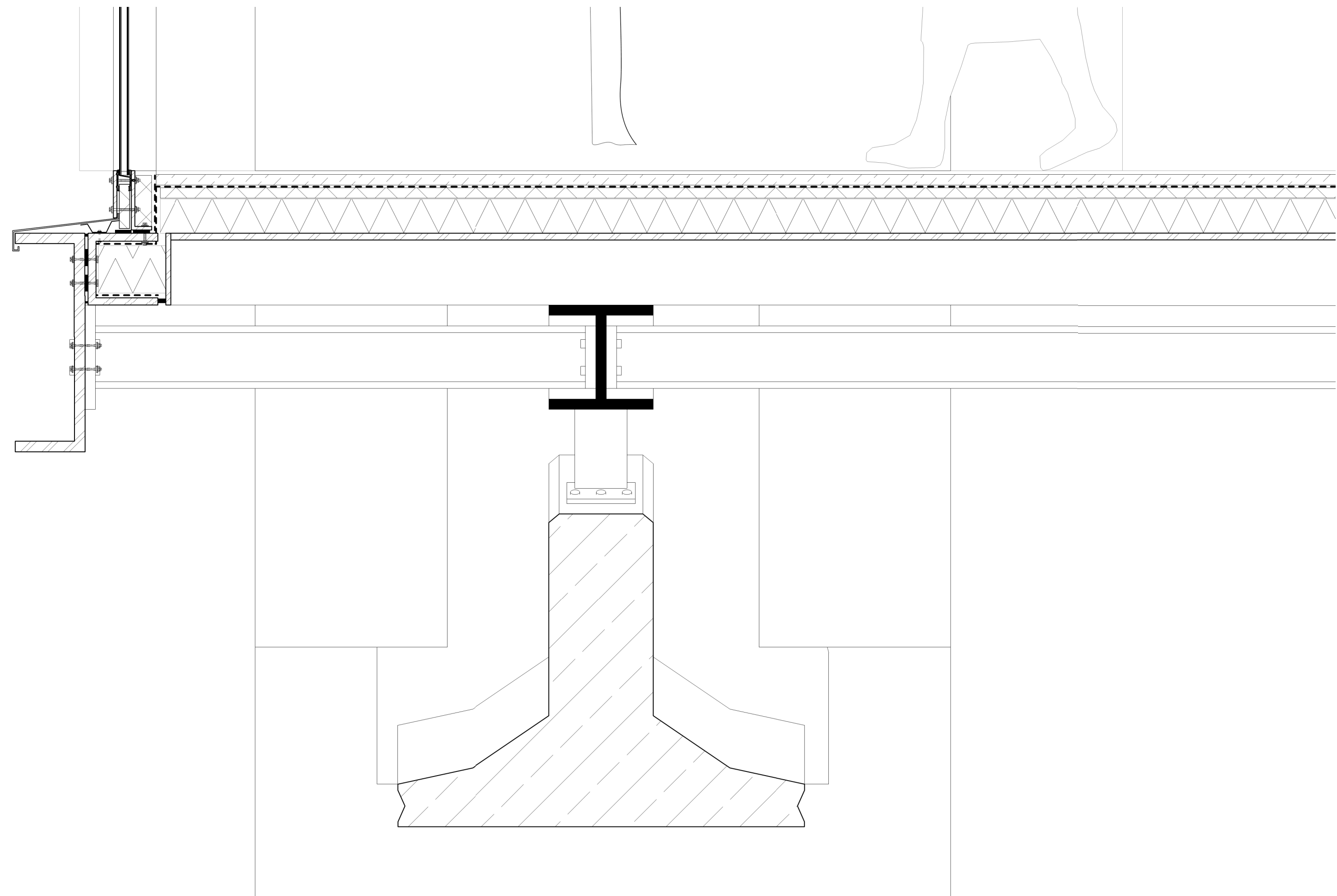
Details 1:5 East/West Facades



Details 1:5 East/West Facades

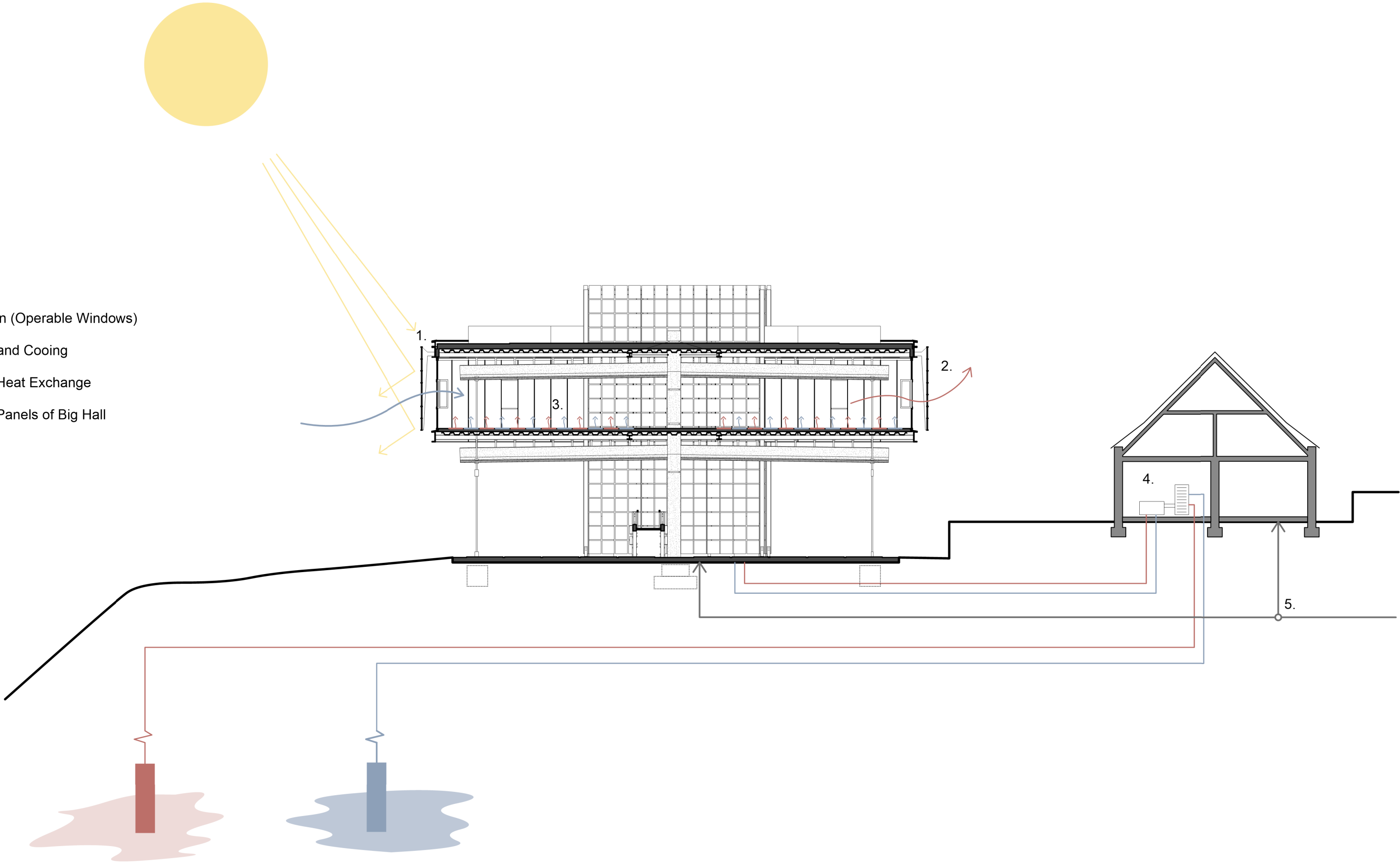


Details 1:5 South/North Facades



Building Technology: **Climate Concept**

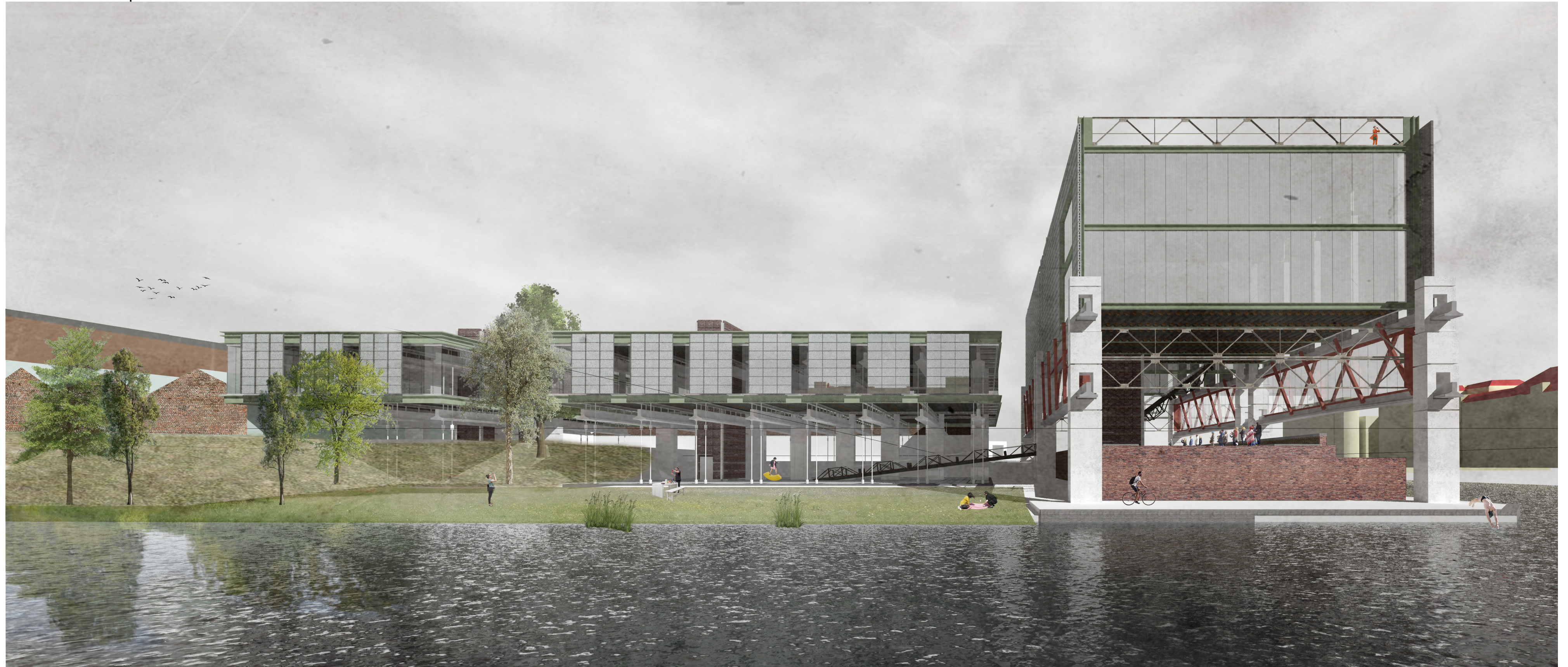
- 1. Sunshading
- 2. Natural Venitaltion (Operable Windows)
- 3. Radiant Heating and Cooing
- 4. Aquifer Thermal Heat Exchange
- 5. Energy from PV-Panels of Big Hall



Architectural Impressions: View from Bassin

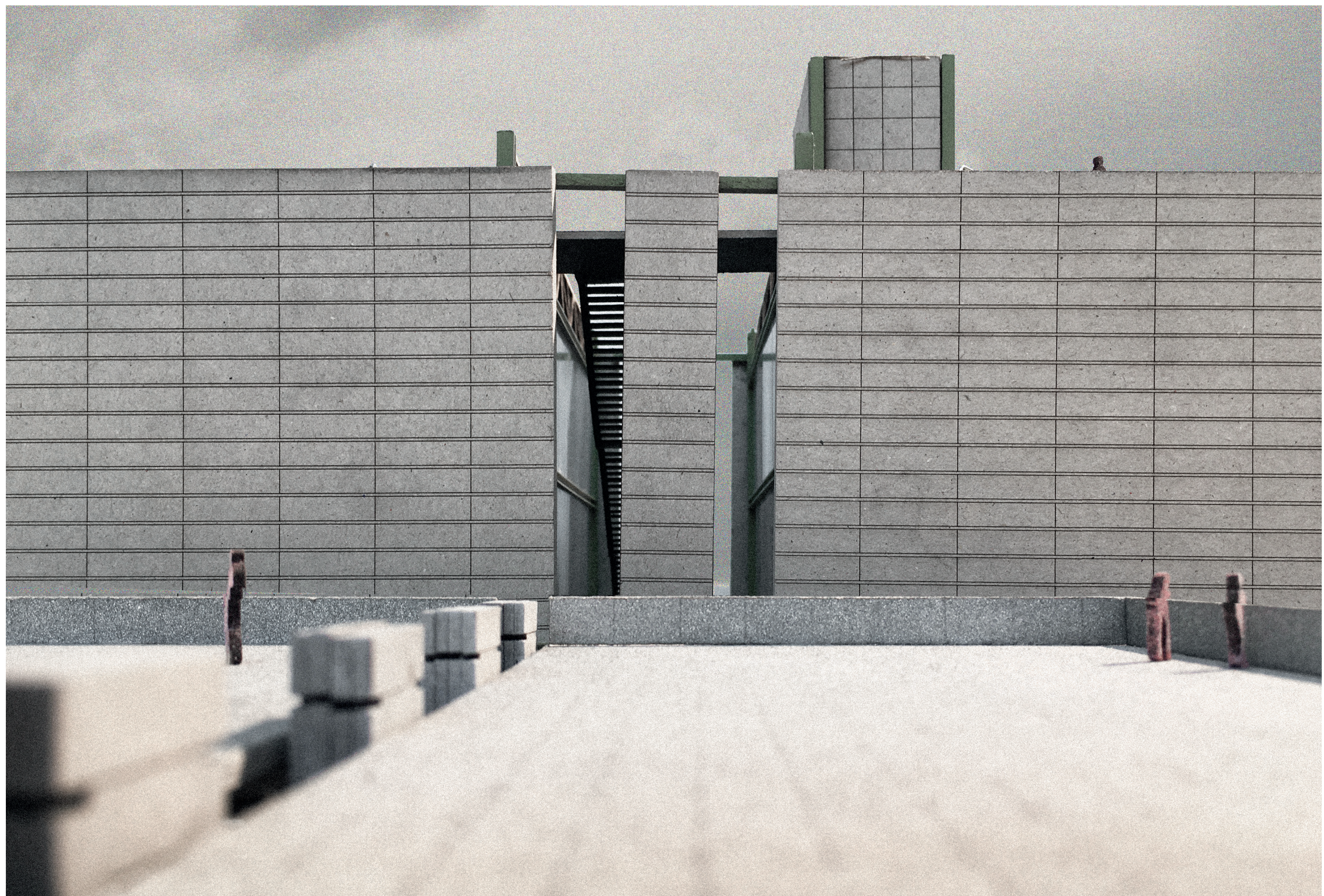


Architectural Impressions: **View from Bassin**

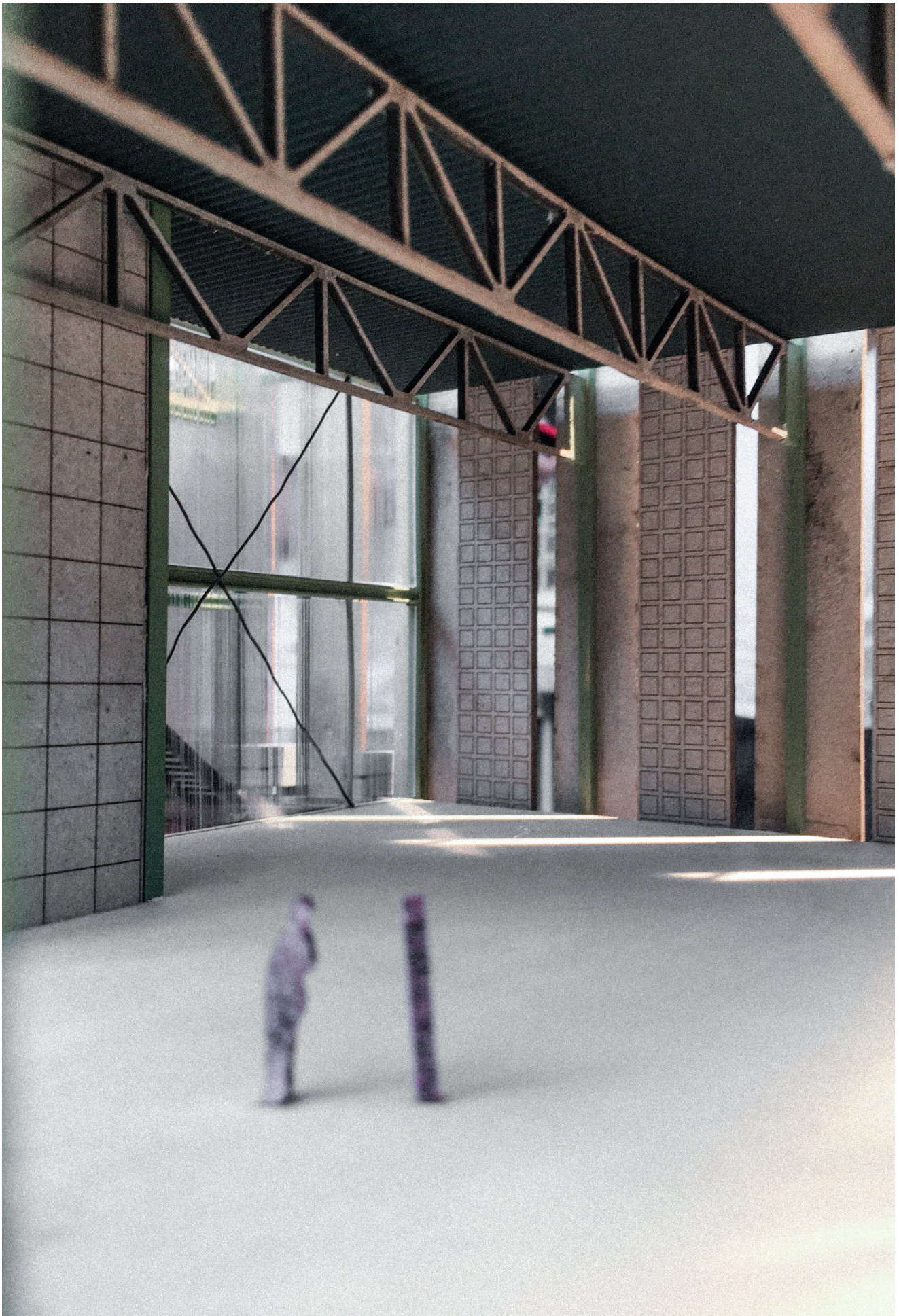
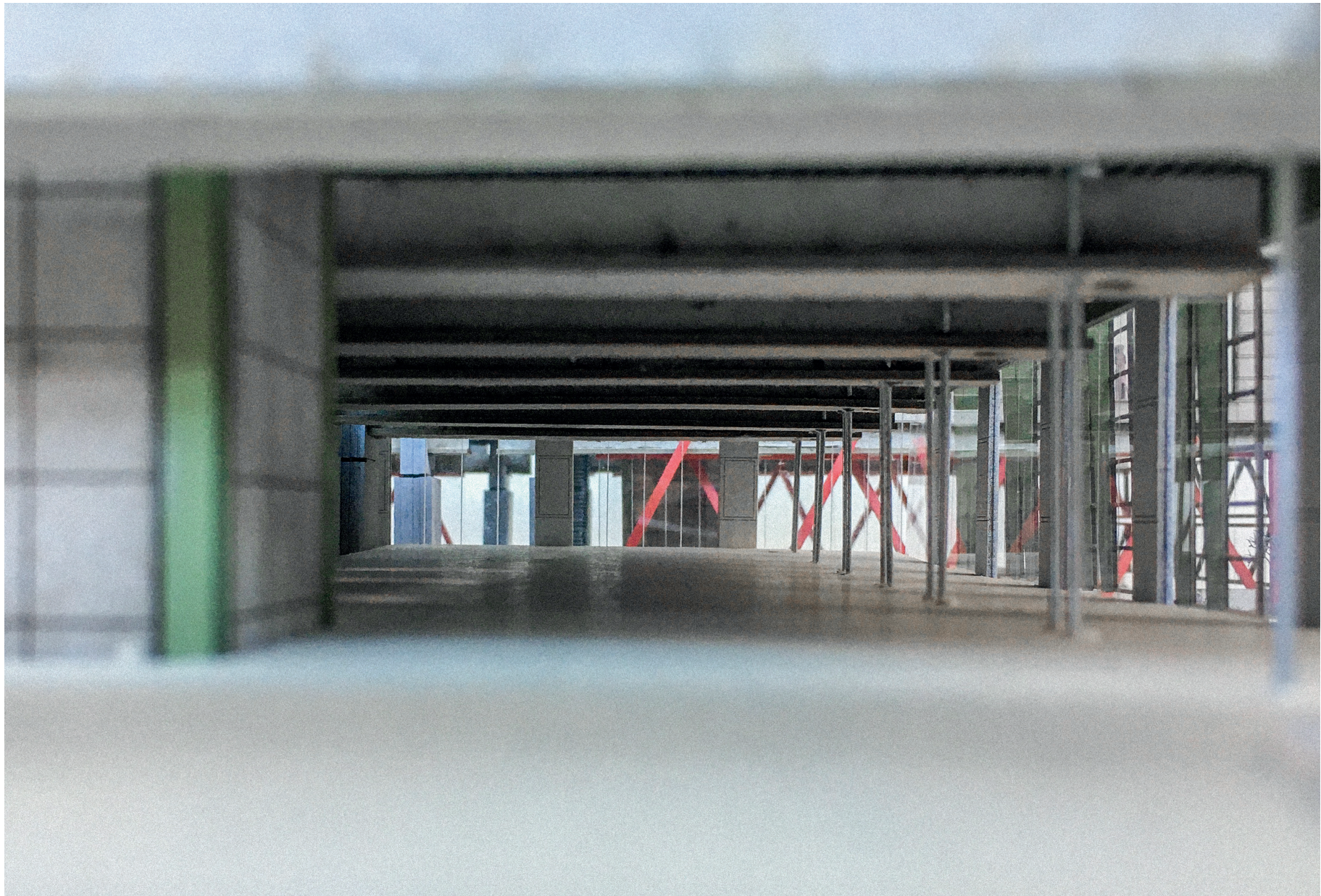












Imagining Appropriation

