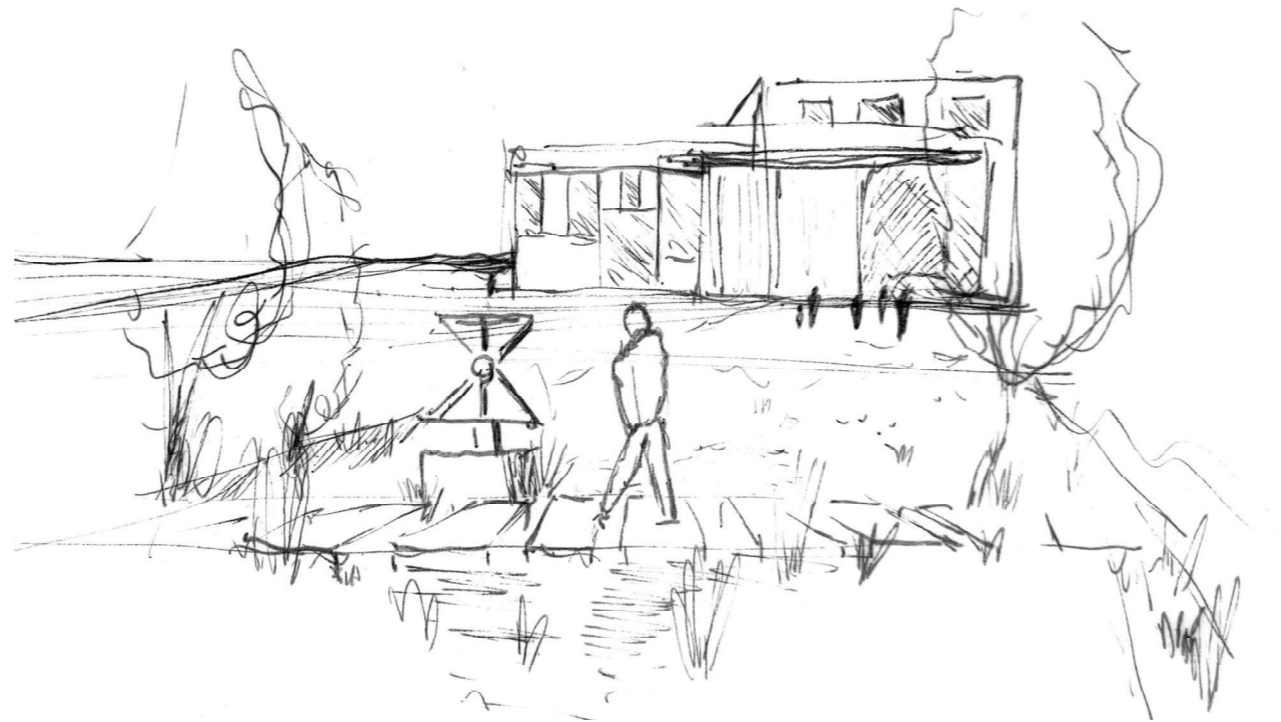


KLOOS INSPIRED

Past themes inspire future solutions



Designing a livable, adaptive neighborhood at
the abandoned Kloos Industrial waterfront in
Alblasserdam

P5

Redesign of the Kloos Industrial Waterfront, Alblasserdam

18-06-2024

Ruben Bremer | 4482972

Heritage & Architecture

Nol Hermkens | Thijs Bennebroek | Marie-Therese van Thoor

Situation
Problem Statement
Project Goals
Research
Concept
Vision
Interventions
Masterplan
Architecture
Conclusion

Situation
Problems
Goals
Research
Concept
Vision
Interventions
Masterplan
Architecture
Conclusion

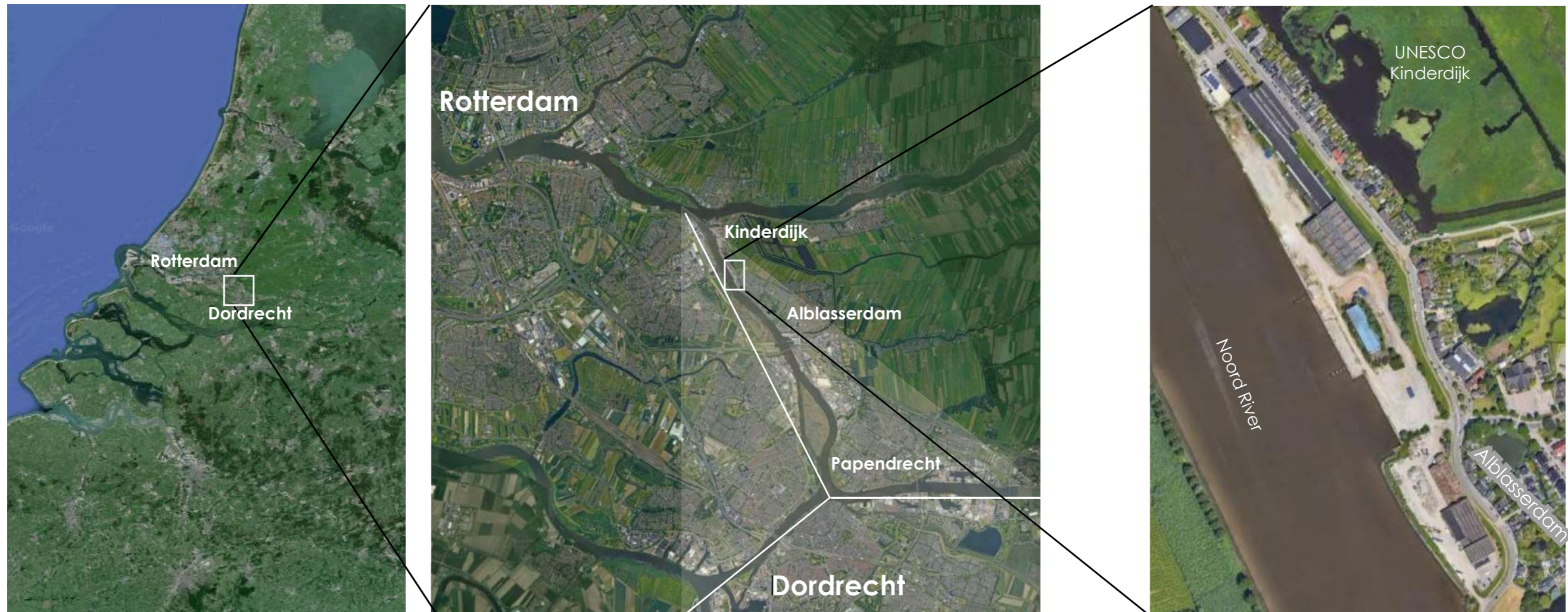
SITUATION

The abandoned industrial hall, Alblasserdam



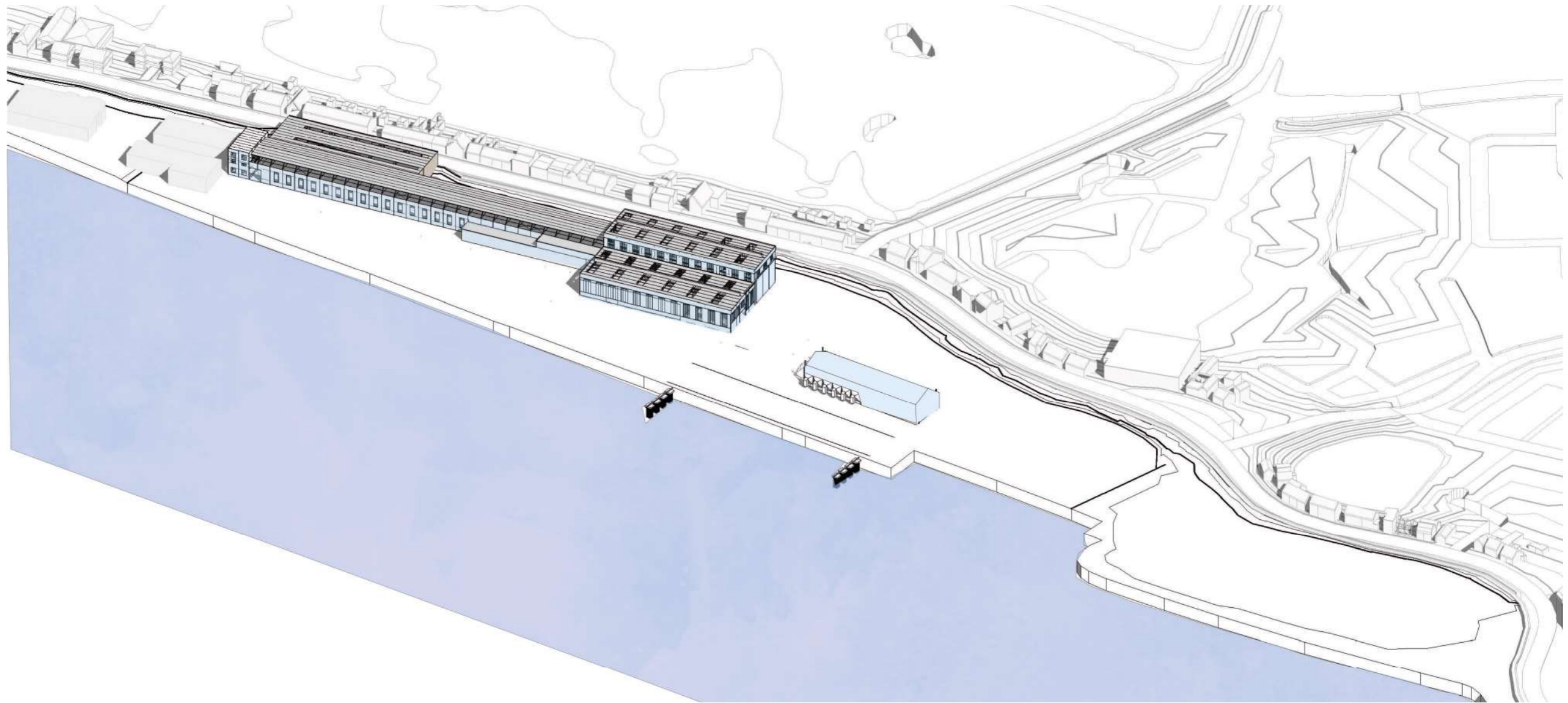
Context

West Kinderdijk 190, Alblasterdam, The Netherlands “Waterdriehoek” Heritage Line



- Situation**
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Site Analysis



Noord Waterfront



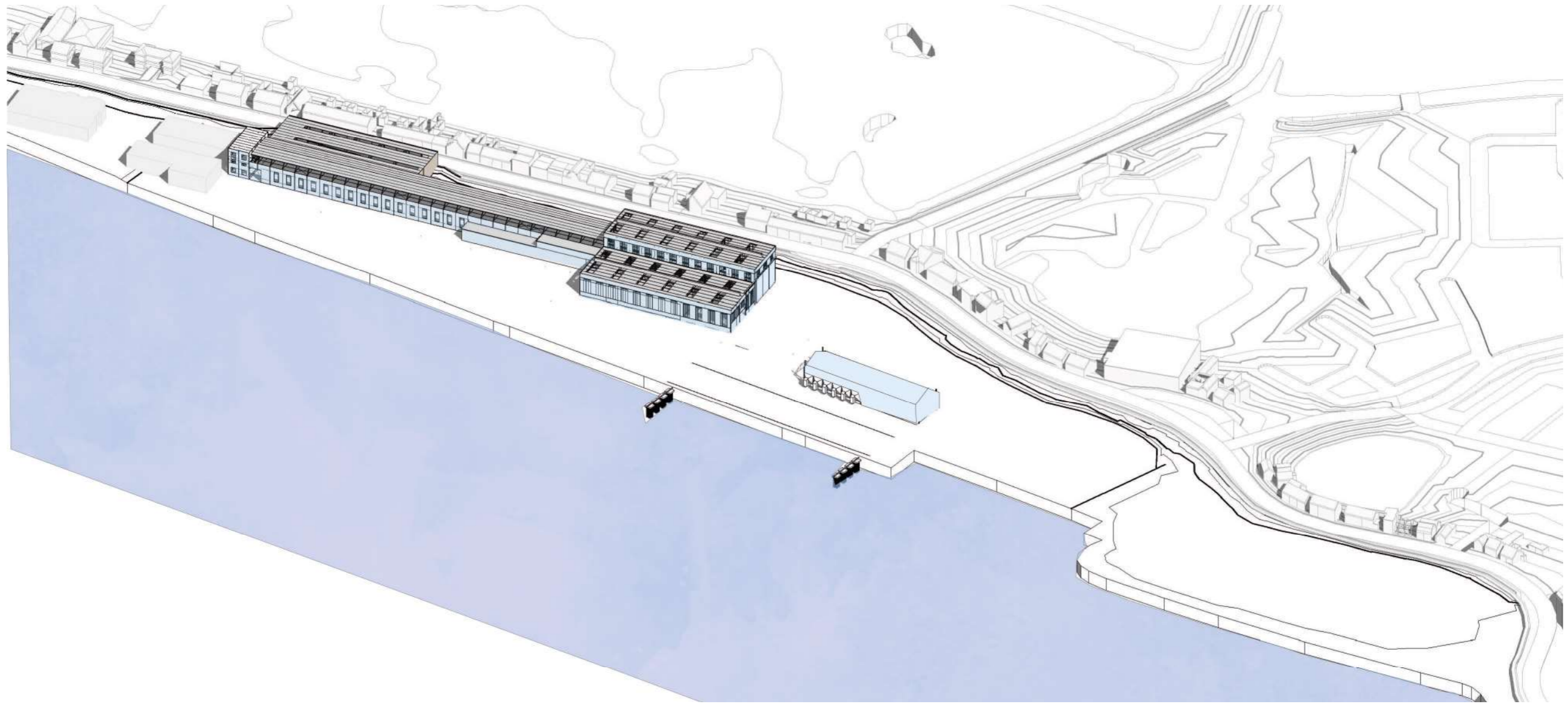
Dike - Contrast



Kinderdijk

- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Site



Situation

Problems

Goals

Research

Concept

Vision

Interventions

Masterplan

Architecture

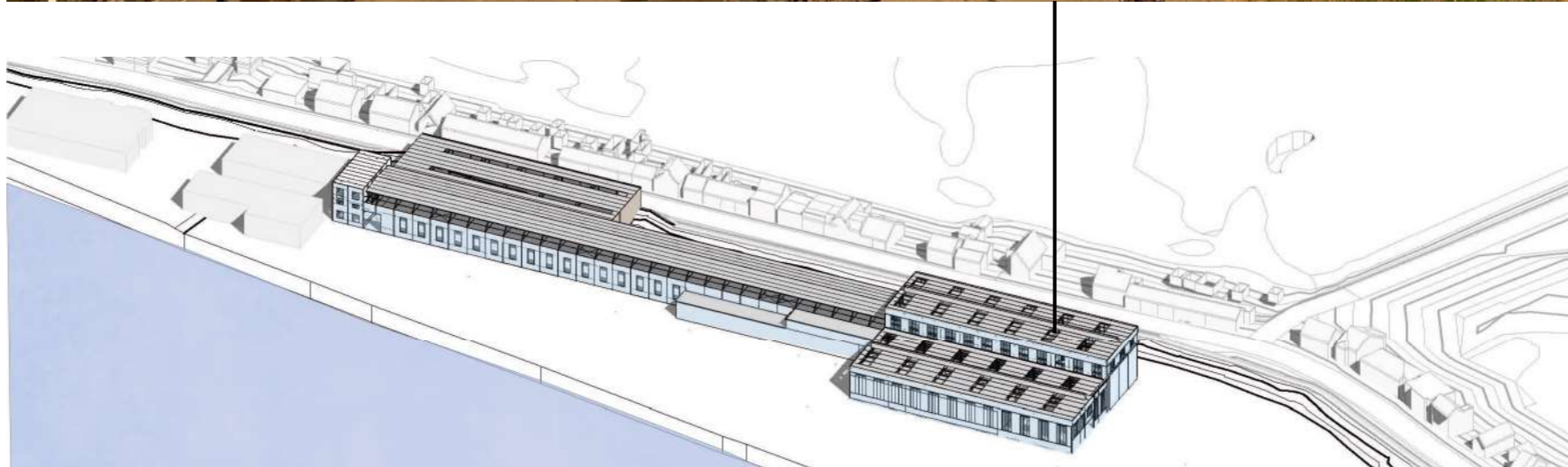
Conclusion

Hall Entrance



- Situation**
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Hoge Hal



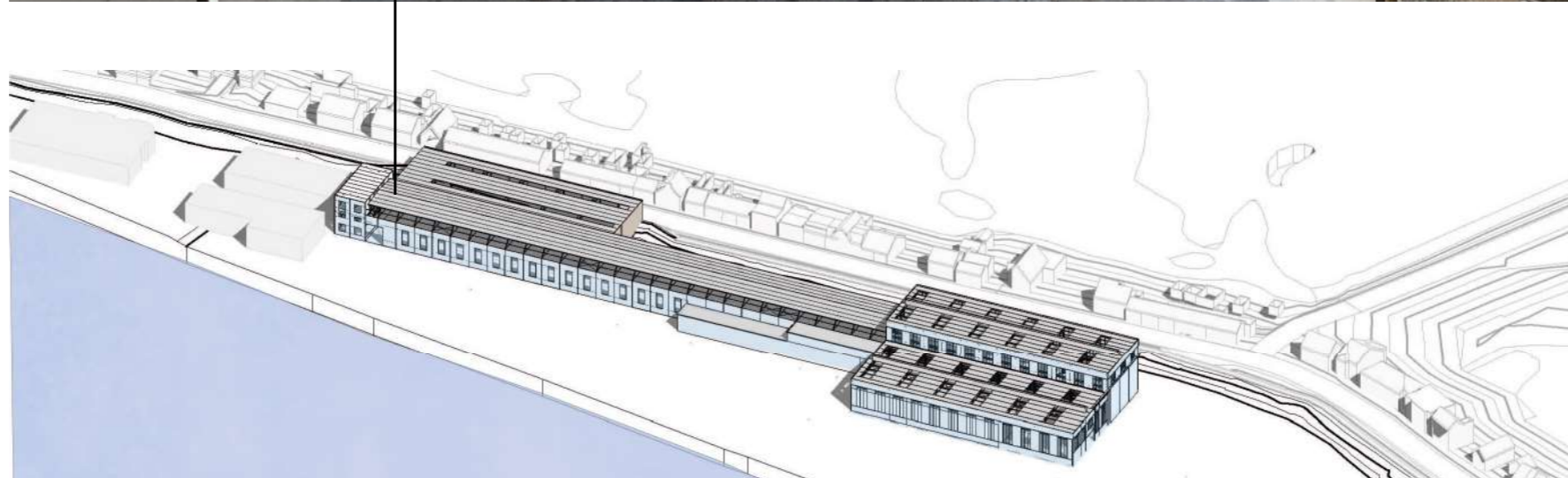
- Situation**
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Lage Hal



- Situation**
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Montagehal



- Situation**
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Hall in Summary



Situation

Problems

Goals

Research

Concept

Vision

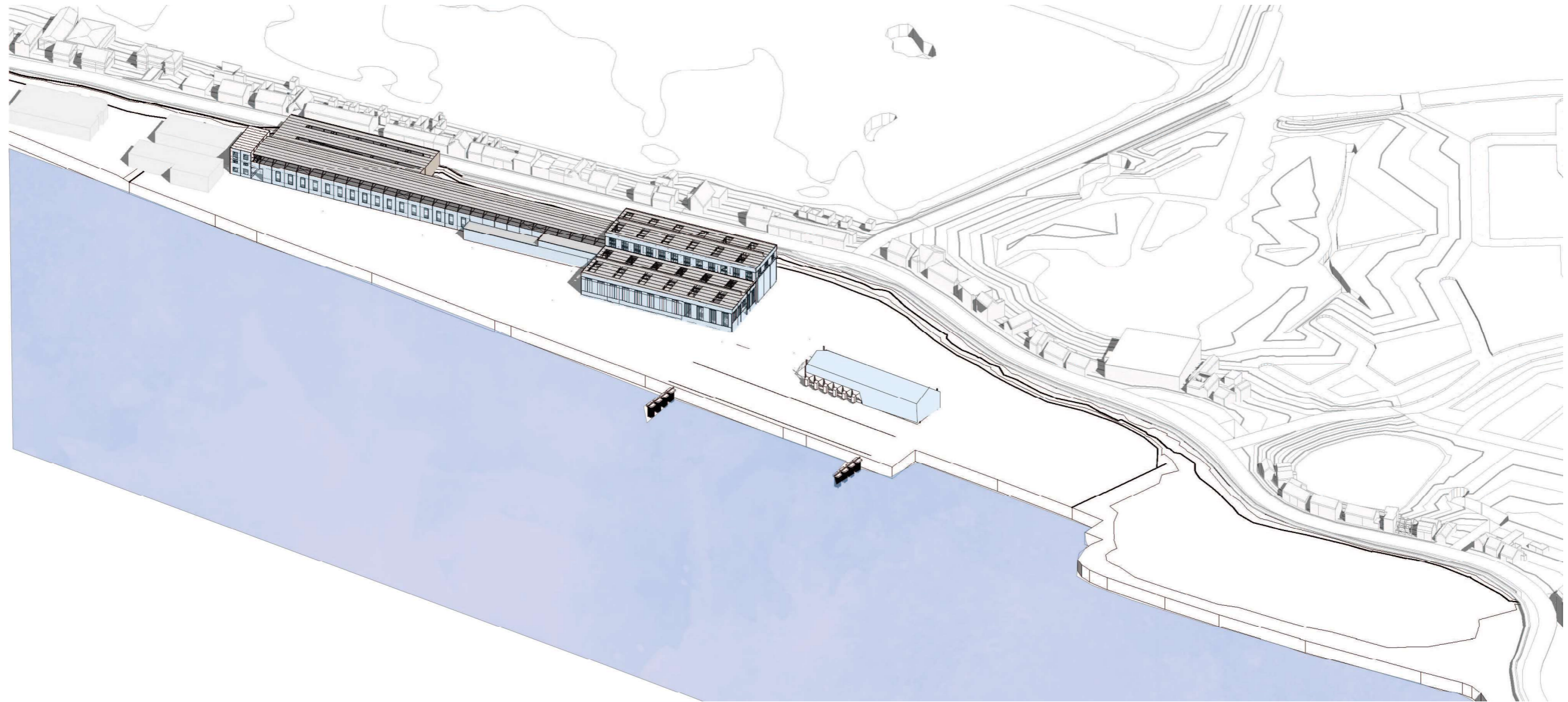
Interventions

Masterplan

Architecture

Conclusion

Surrounding Issues



Housing Crisis



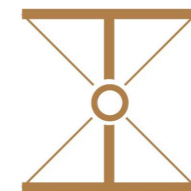
Rotterdam Expanding



Isolation



Future Flooding Risk



Abandoned Heritage

Situation

Problems

Goals

Research

Concept

Vision

Interventions

Masterplan

Architecture

Conclusion

Historical Background



1843 - F.Kloos builds sawmill



19/20th century | steel structures



large workforce, benefits



70's - 90's | mergers, abandonment

Situation

Problems

Goals

Research

Concept

Vision

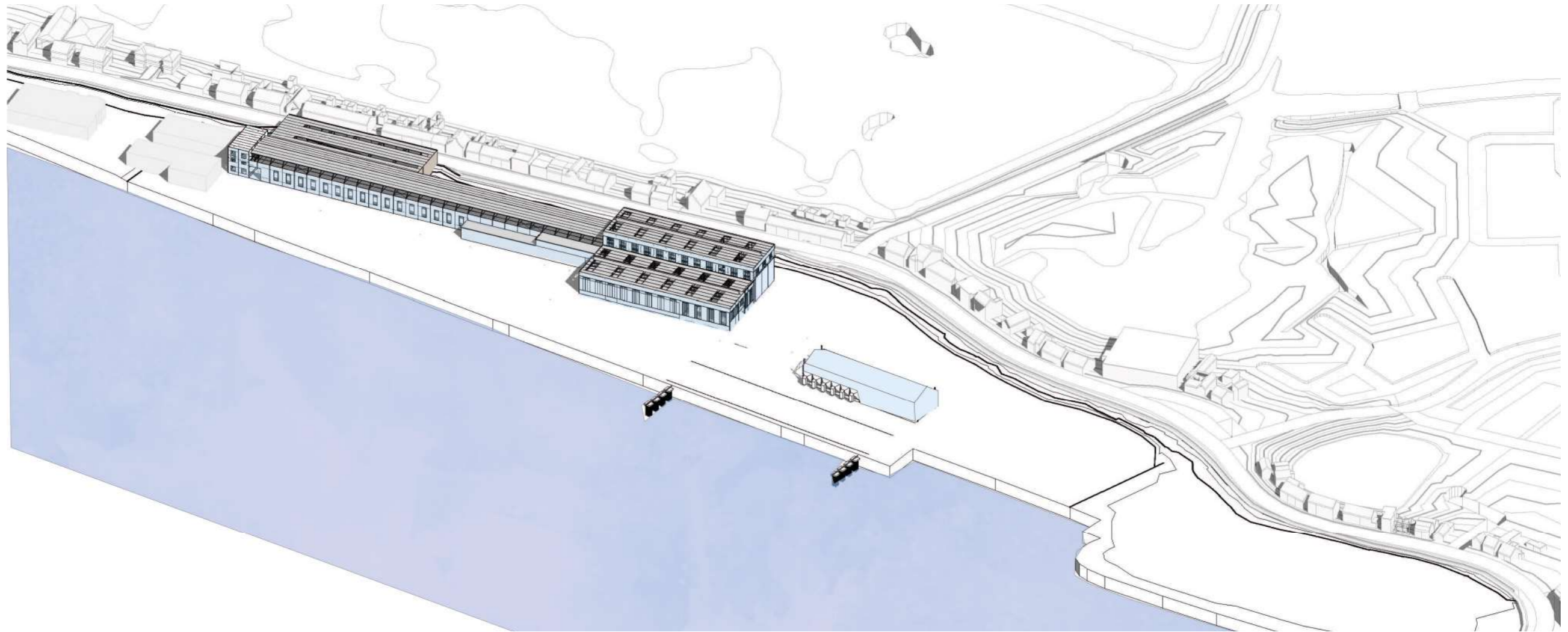
Interventions

Masterplan

Architecture

Conclusion

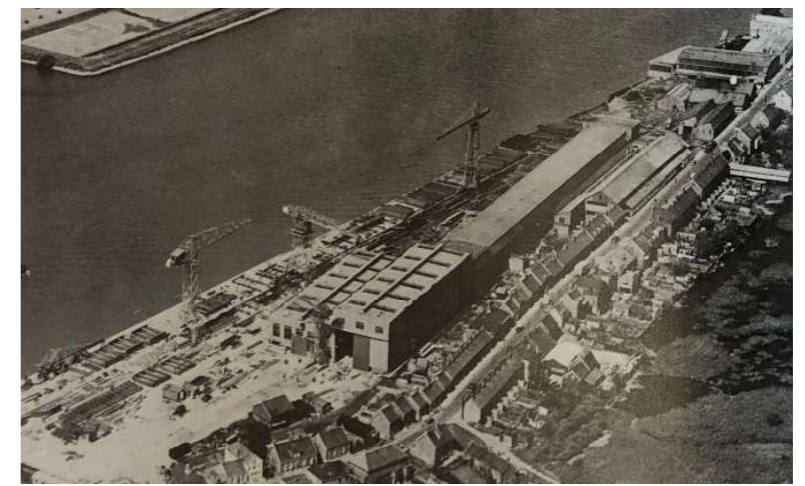
Value Assessment



Industrial Hall - length, ryhtm



Industrial remains



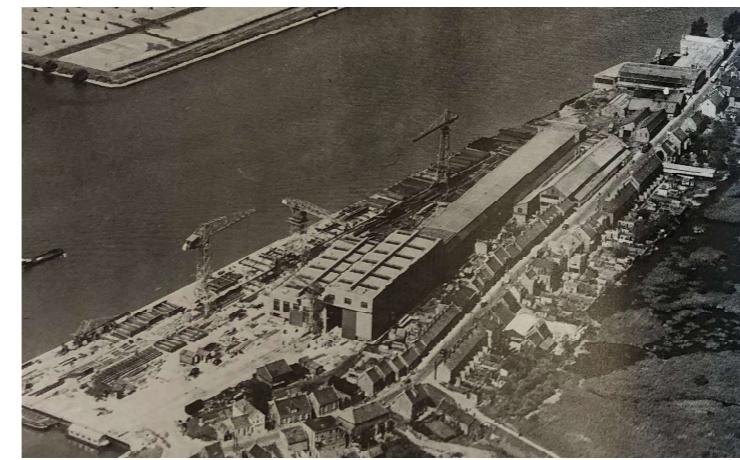
Industrial History, collective memory

- Situation**
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

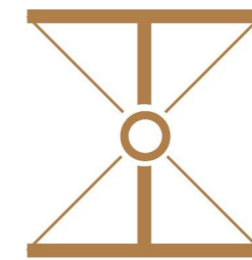
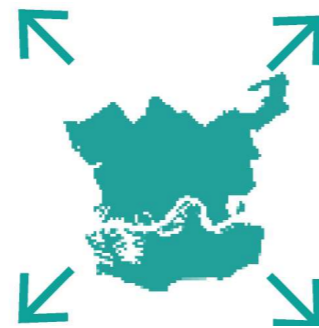
Summary



exclusive location, identity



industrial history, impact

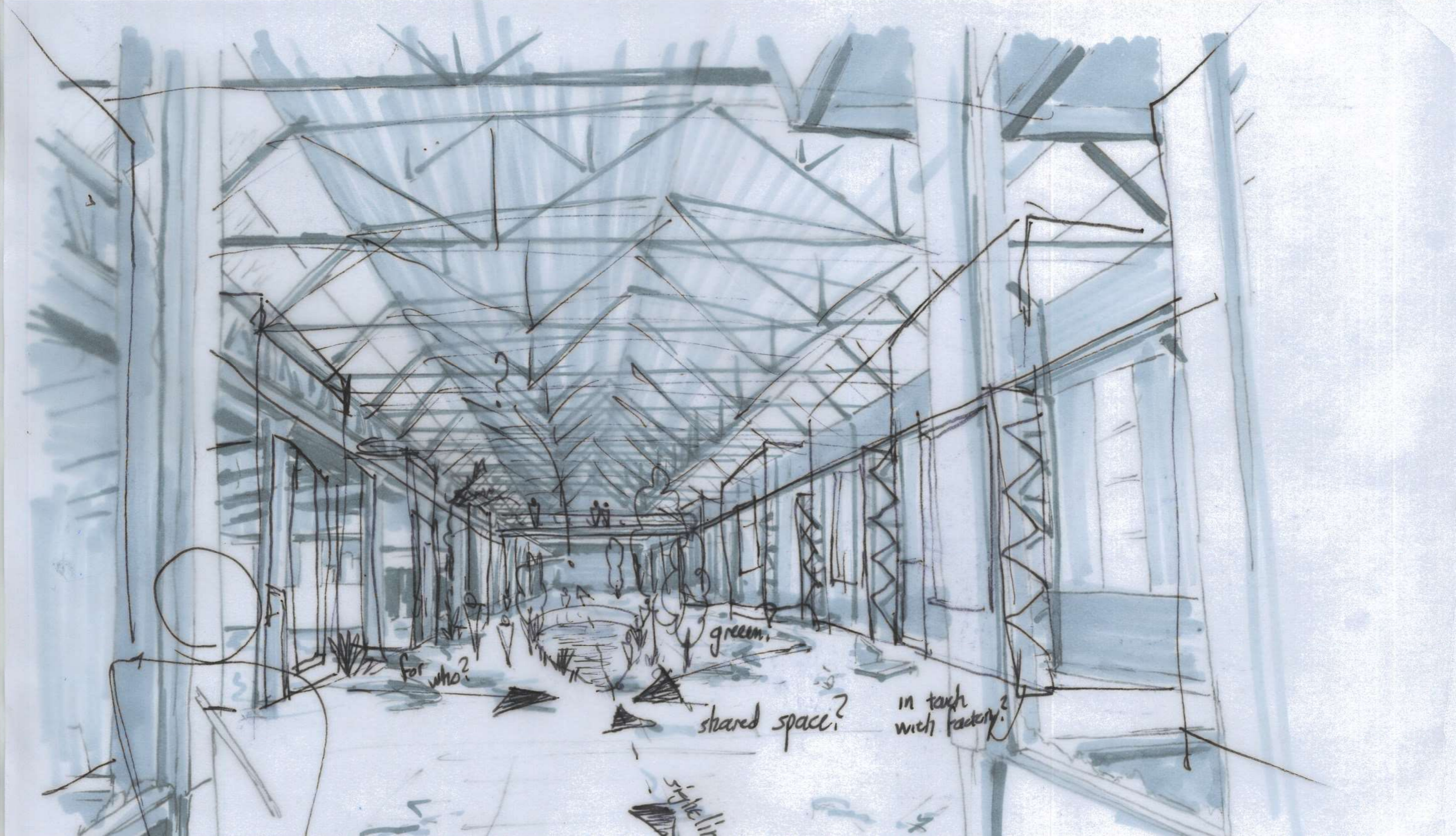


housing need, challenging site

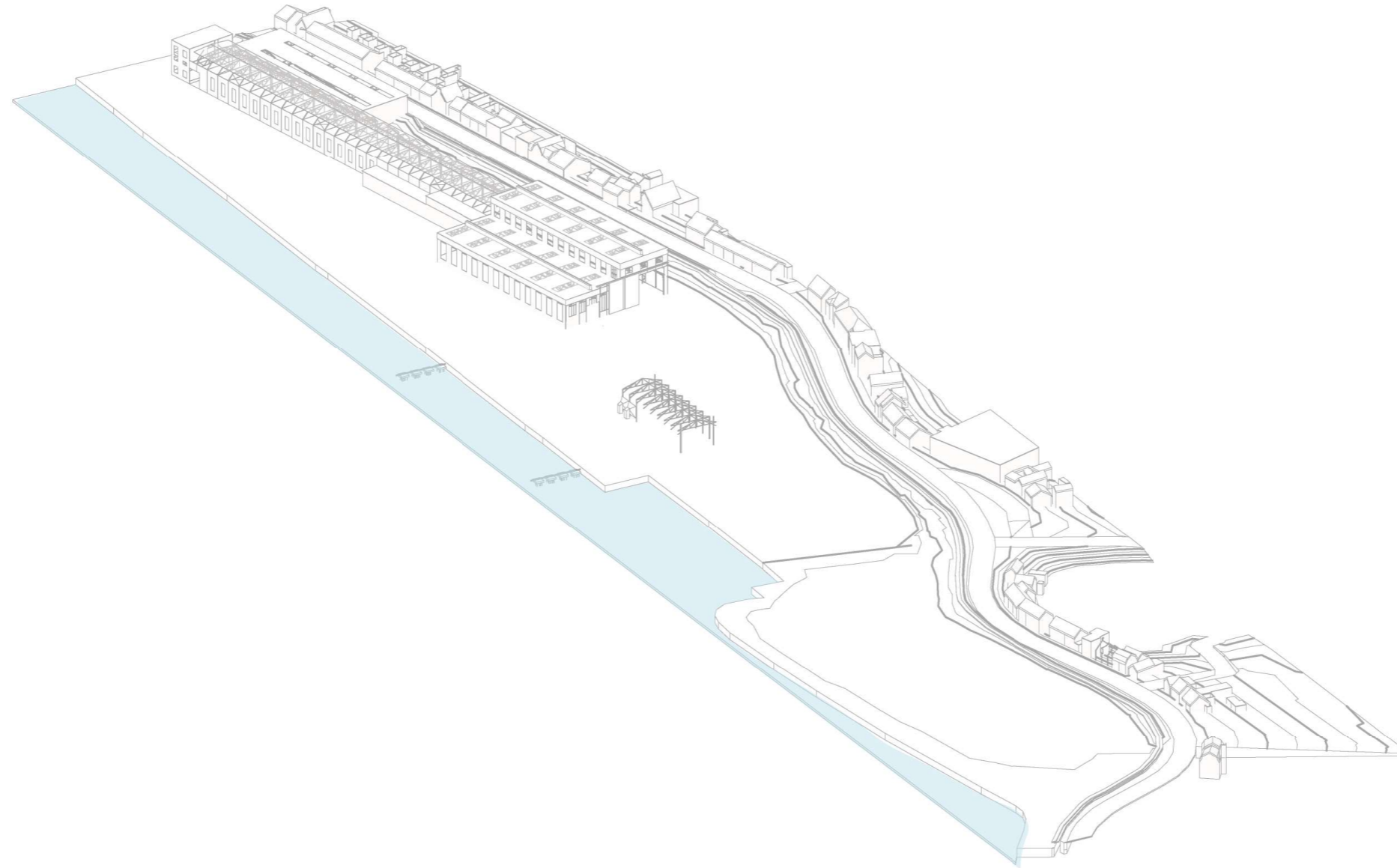
- Situation
- Problems**
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

GOALS

Creating a new neighborhood that tackles surrounding issues while honoring industrial heritage



New Neighborhood



Situation

Problems

Goals

Research

Concept

Vision

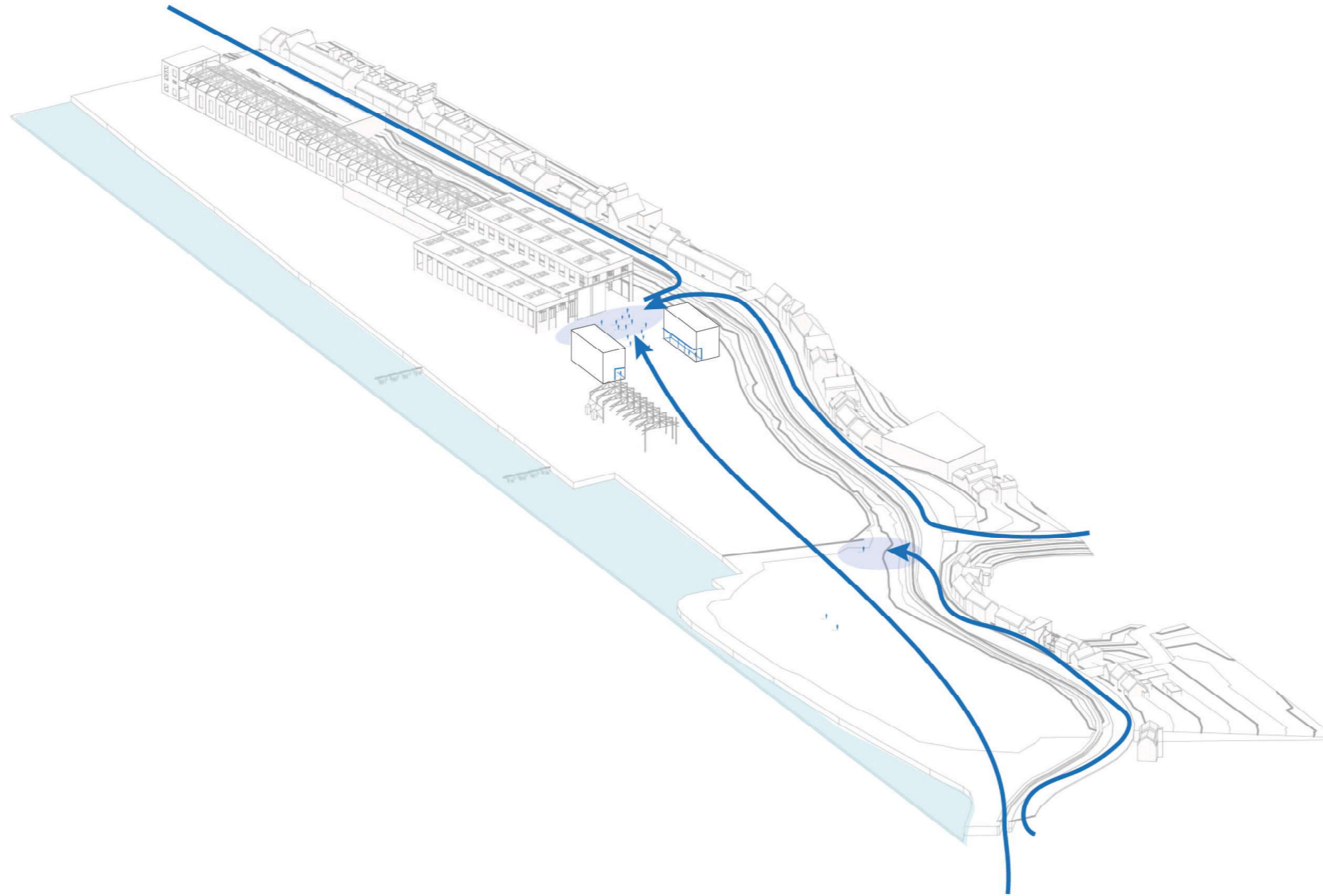
Interventions

Masterplan

Architecture

Conclusion

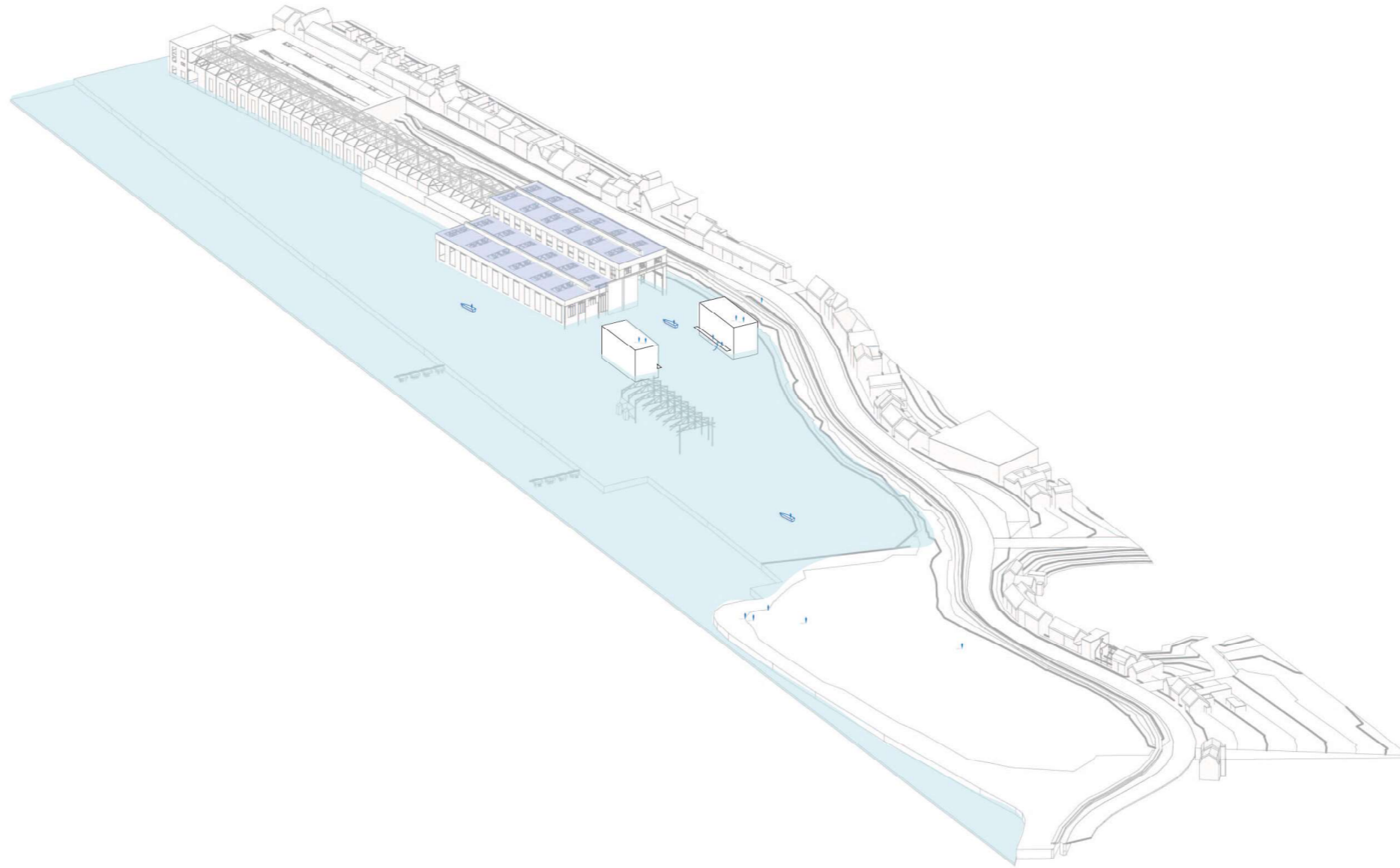
New Neighborhood



Livable & Attractive Neighborhood

- Situation
- Problems
- Goals**
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

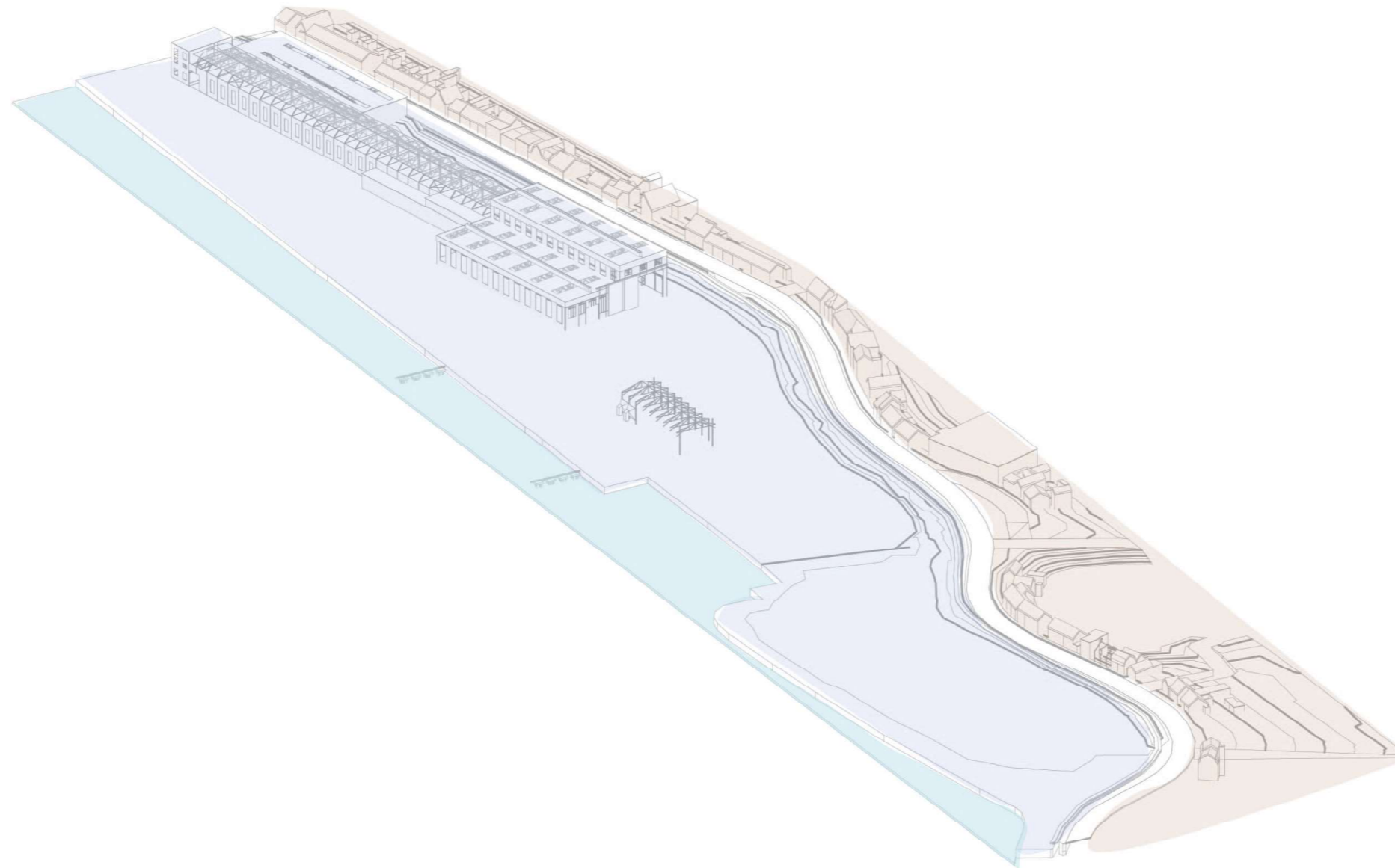
New Neighborhood



Resilient, Adaptive

Situation
Problems
Goals
Research
Concept
Vision
Interventions
Masterplan
Architecture
Conclusion

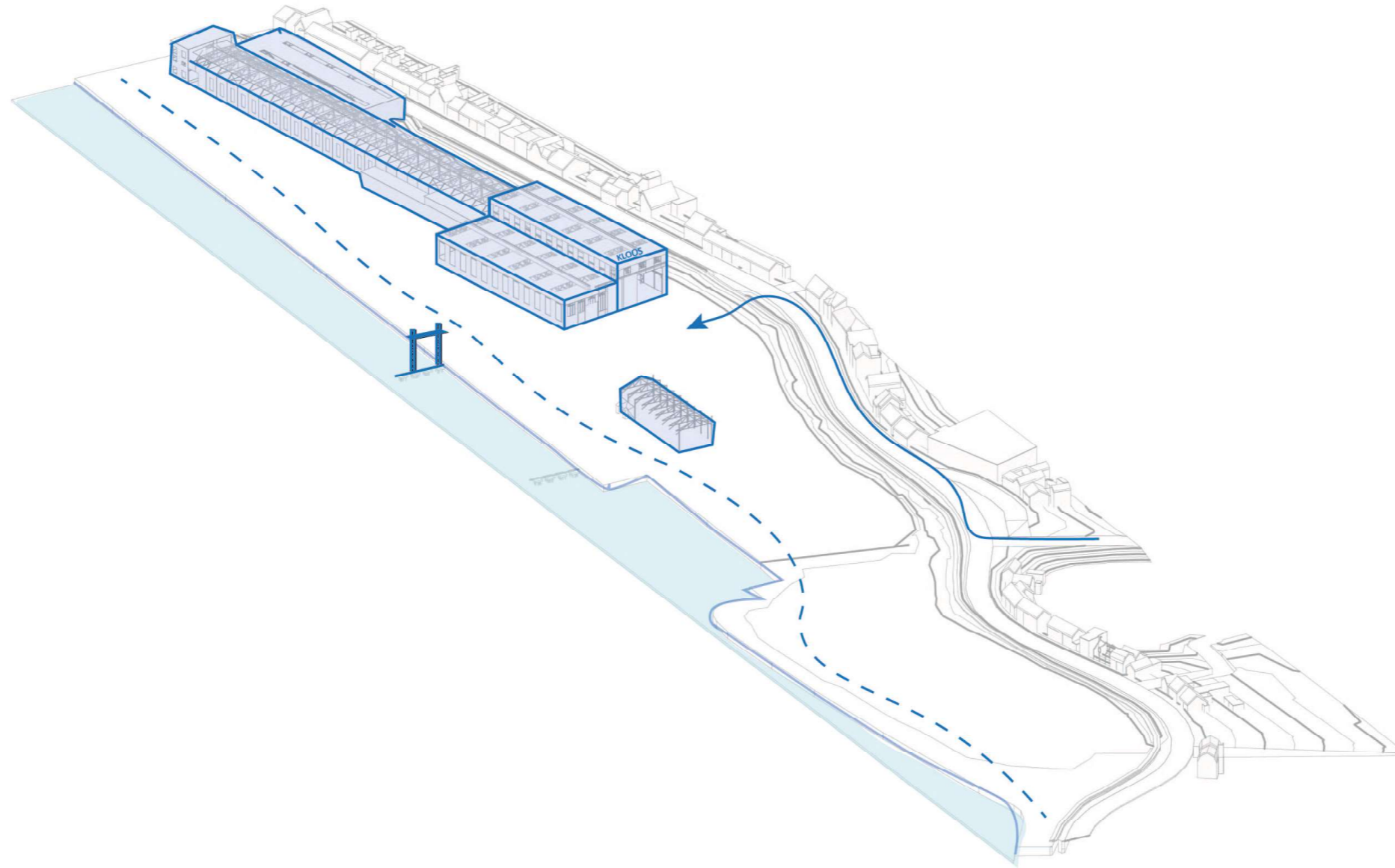
New Neighborhood



Separate, Industrial Identity

- Situation
- Problems
- Goals**
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

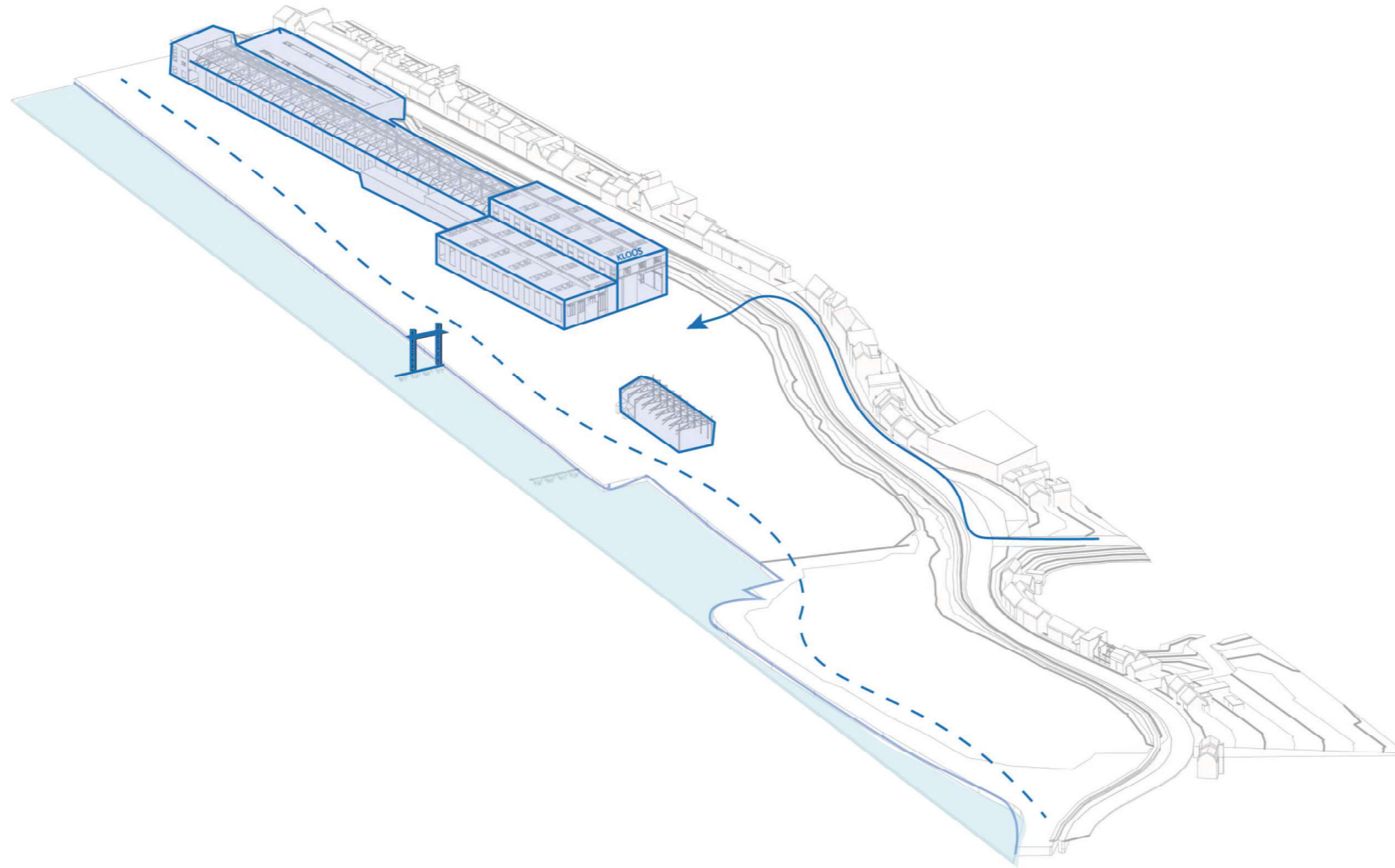
New Neighborhood



Celebrate what Kloos & Zonen used to mean

- Situation
- Problems
- Goals**
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

New Neighborhood



What did Kloos mean to its surroundings?

'Which story do we consider important?'

Carola Hein, 2019

- Situation
- Problems
- Goals**
- Research
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Voices Uncovered

Stories of the Alblasserwards's industrial past



What are the narratives of the historic workers community of the Kloos industrial waterfront?

And from which cultural themes do these narratives originate?

Research

Methods

'Will'



'Ad'



'D'



'A-M'



Oral Histories of Former Workers
(Perks & Thompson, 2004)

Situation

Problems

Goals

Research

Concept

Vision

Interventions

Masterplan

Architecture

Conclusion

Research

Narratives and Kloos

'Will'



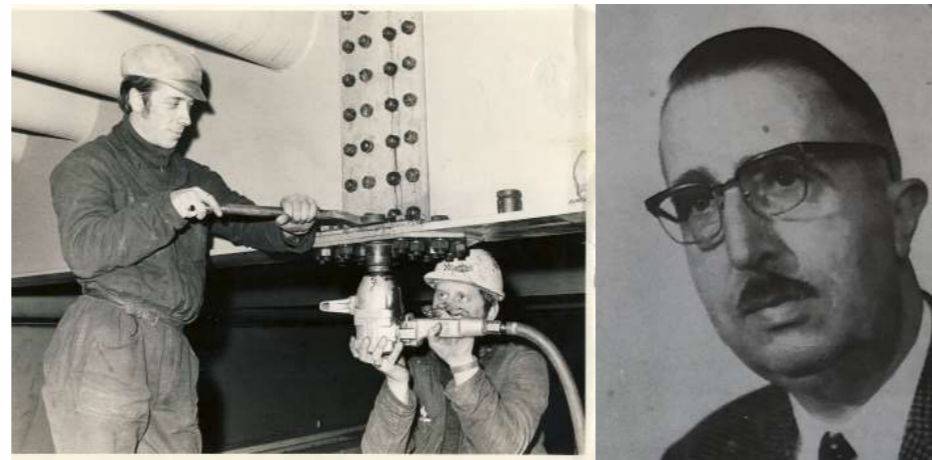
Pride, Grandfathers



'Ad'



Friends, Culture



'A-M'



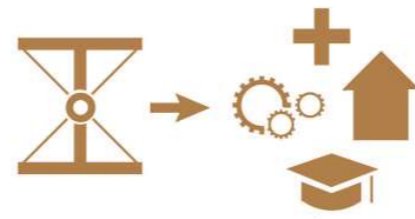
Support after loss



- Situation
- Problems
- Goals
- Research**
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Research

Results



Gartitude & Pride



Company Provides



Sense of Community

- Situation
- Problems
- Goals
- Research**
- Concept
- Vision
- Interventions
- Masterplan
- Architecture
- Conclusion

Urban Concept

KLOOS, INSPIRED

“Past themes inspire future solutions”

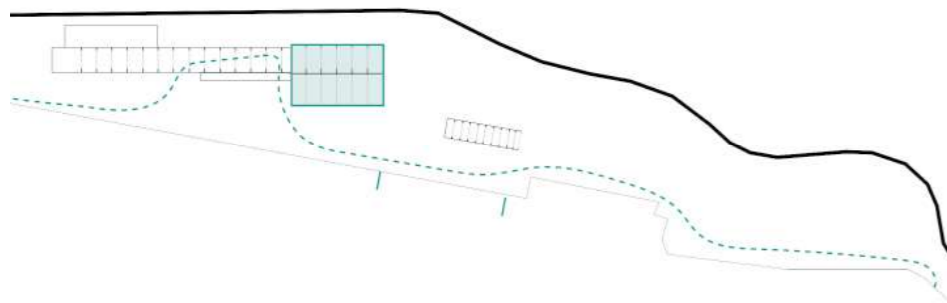
Situation
Problems
Goals
Research
Concept
Vision
Interventions
Masterplan
Architecture
Conclusion

Vision

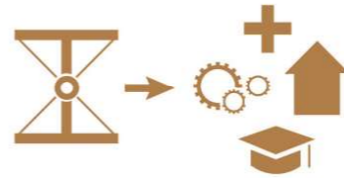
KLOOS, INSPIRED *"Past themes inspire future solutions"*



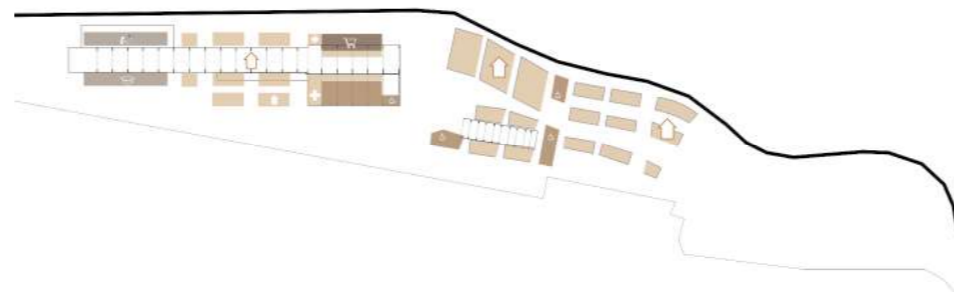
Pride & Gratitude



- Retain halls and steel structures,
- Introduce heritage markers
- Celebrate Industrial Heritage.



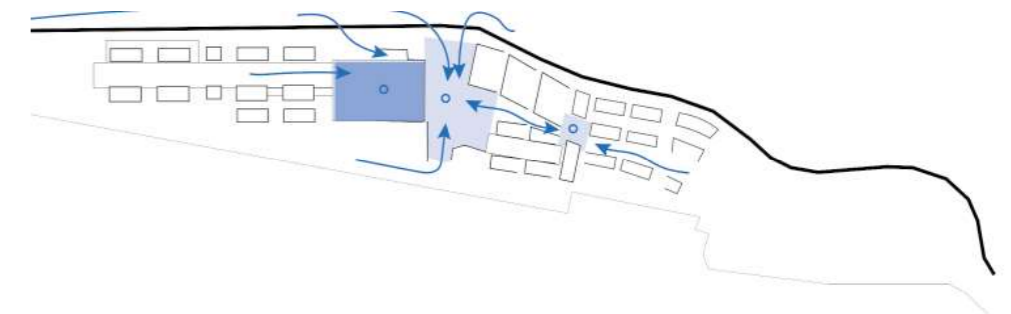
Company Provides



- Diverse dwelling mix
- Floodproof dwellings
- Add supporting functions



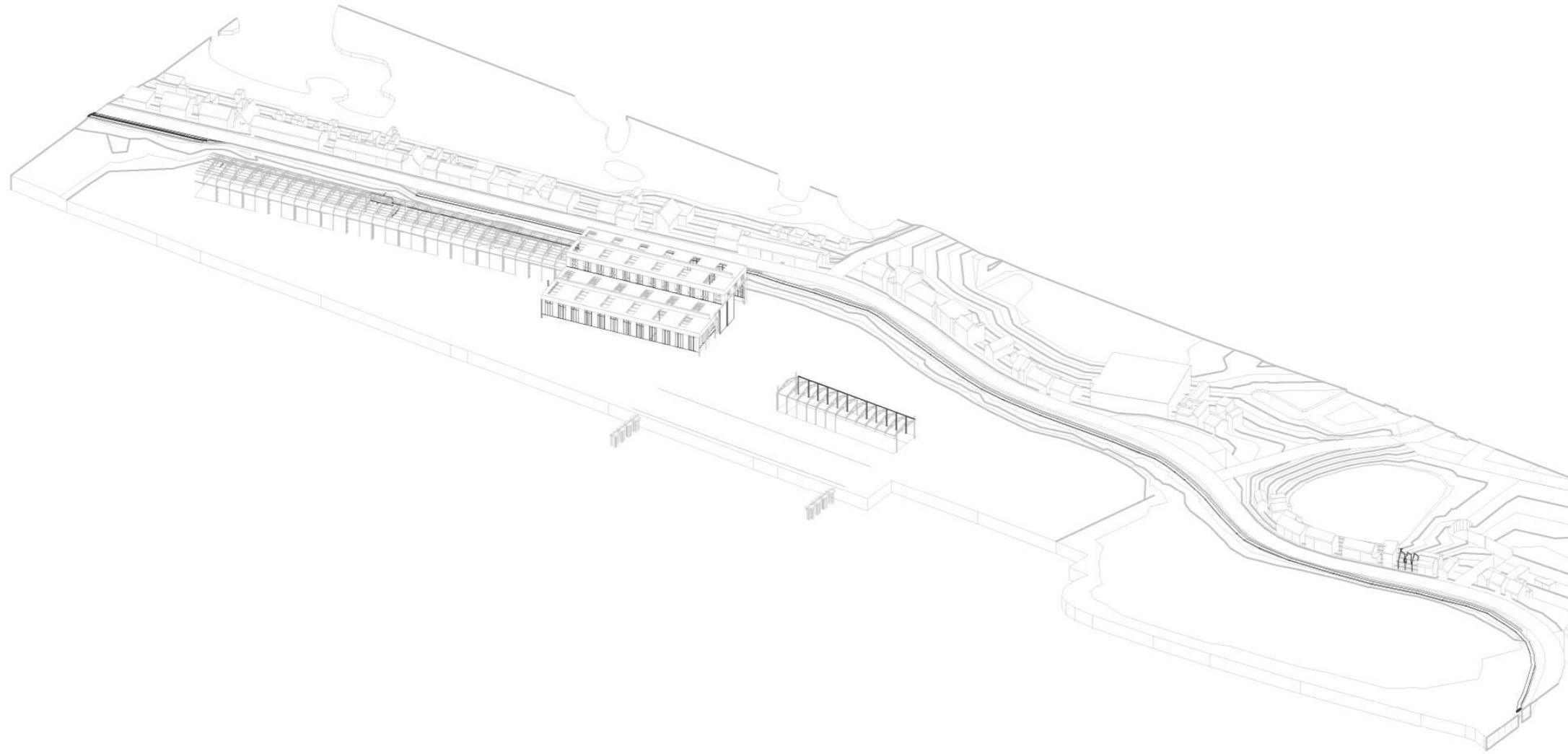
Sense of Community



- Hoge Hal becomes central point
- Add mix of functions in hall
- Join hall with square, enable interaction

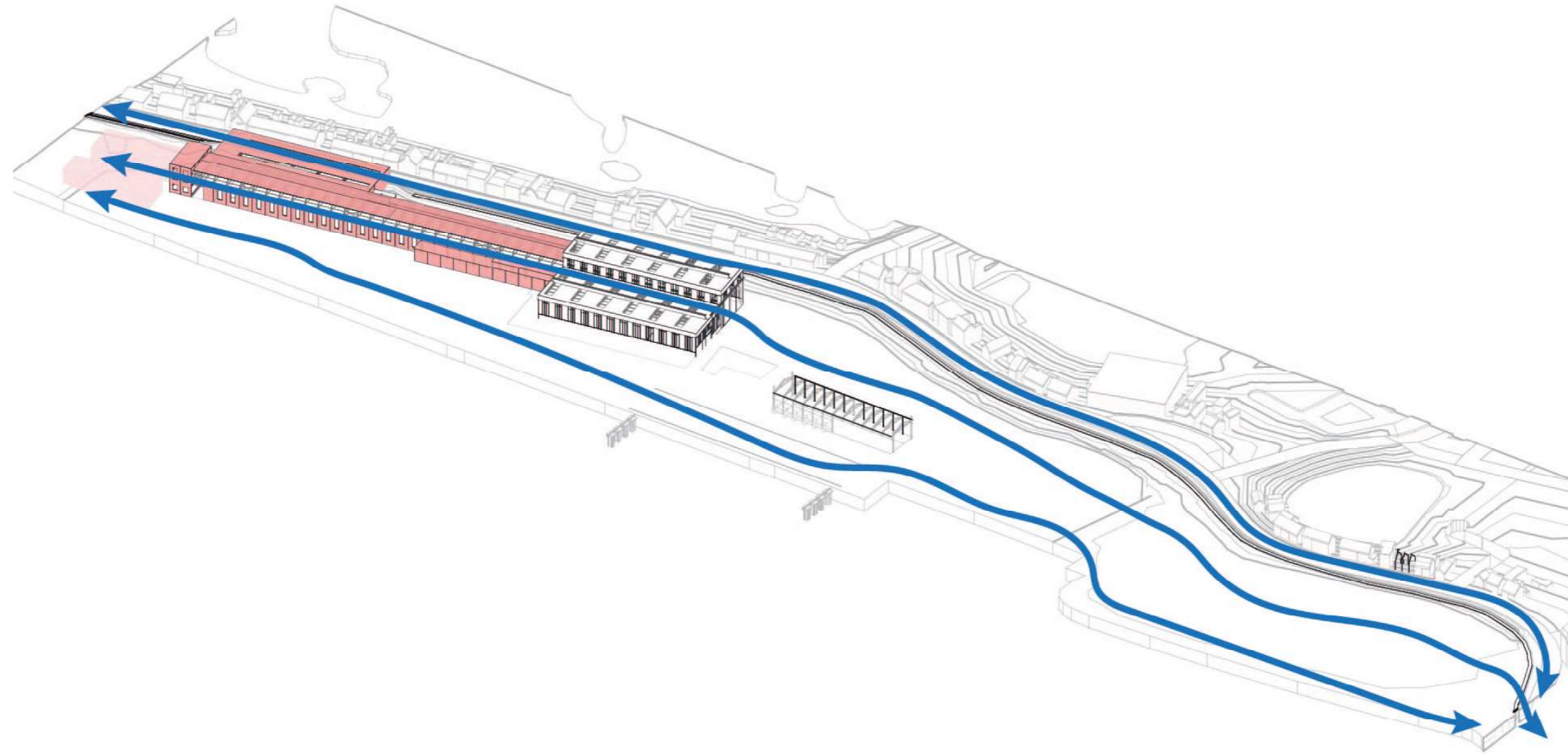
Situation
 Problems
 Goals
 Research
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Vision
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 Masterplan
 Architecture
 Conclusion

Urban Interventions



Situation
Problems
Goals
Research
Concept
Vision
Interventions
Masterplan
Architecture
Conclusion

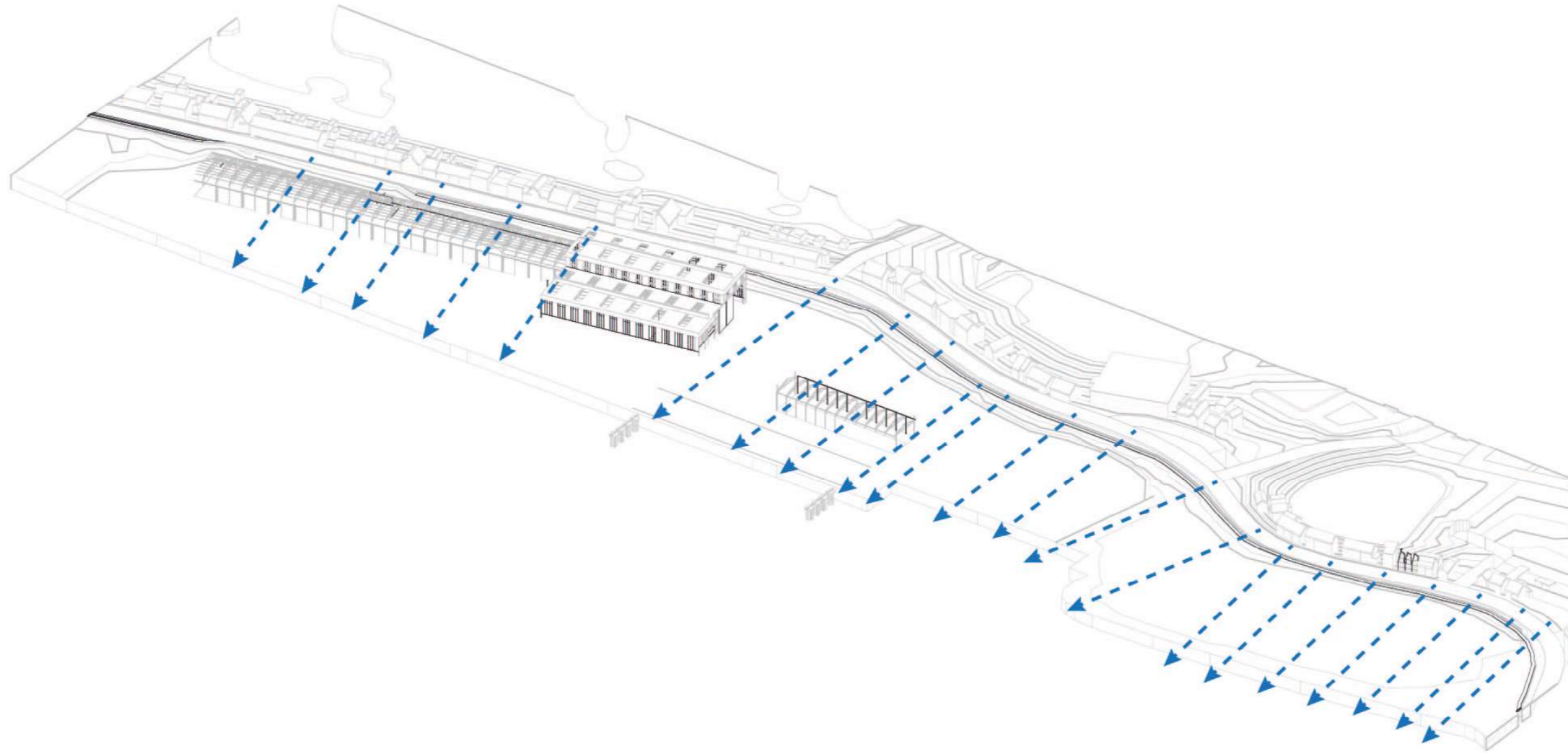
Urban Interventions



1. Axis

- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions**
- Masterplan
- Architecture
- Conclusion

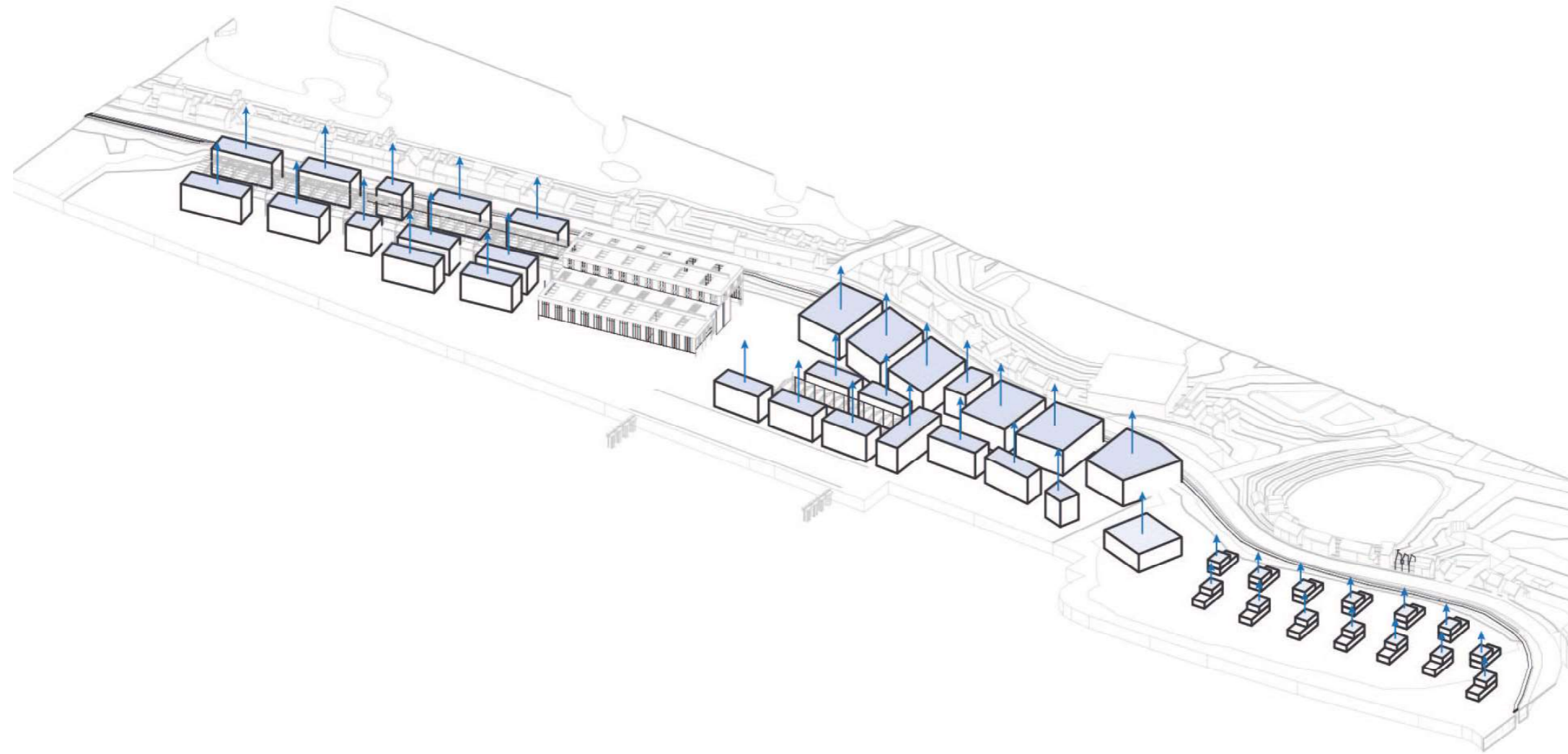
Urban Interventions



2. Sightlines

- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions**
- Masterplan
- Architecture
- Conclusion

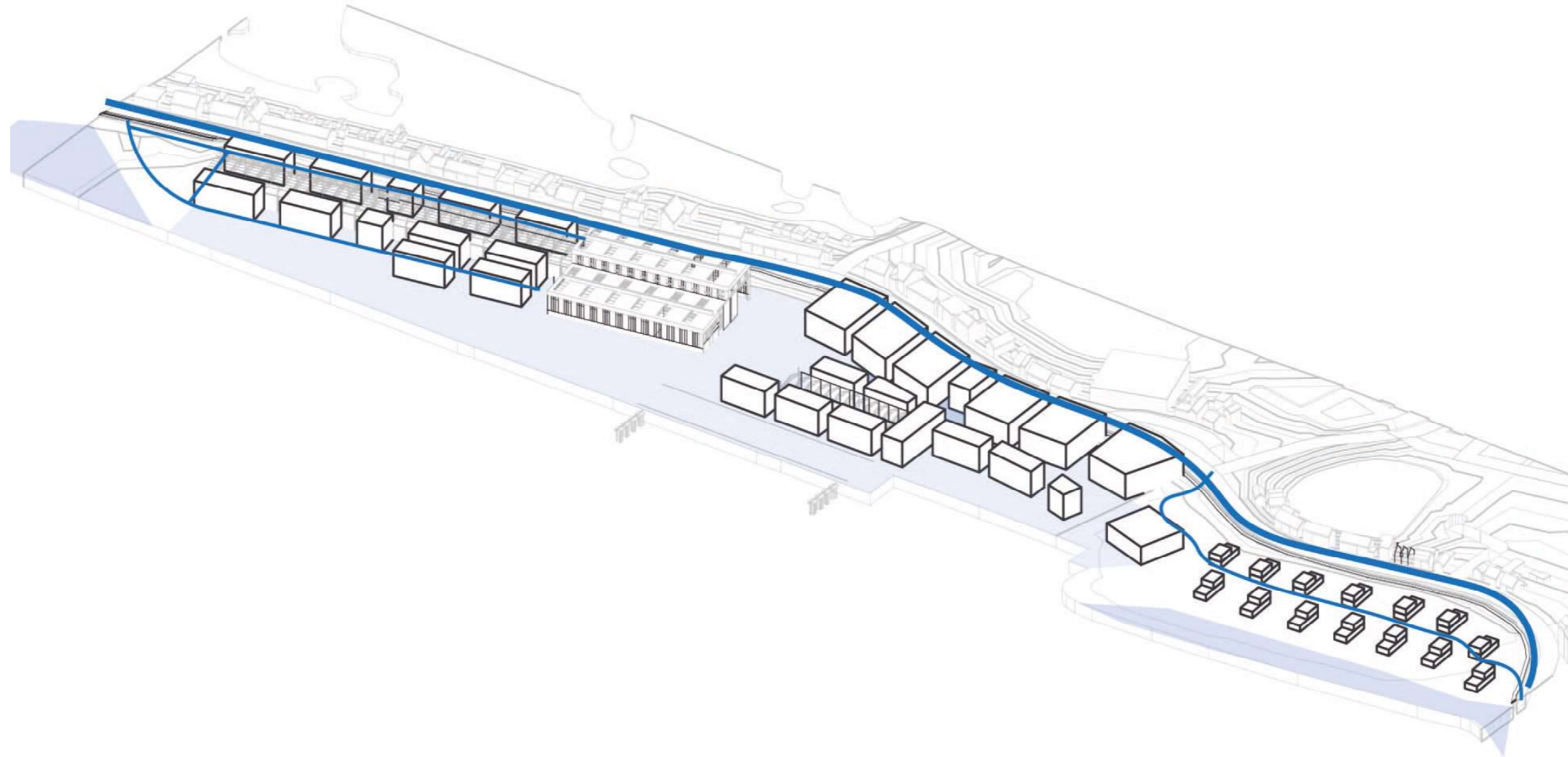
Urban Interventions



3. Buildings

- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions**
- Masterplan
- Architecture
- Conclusion

Urban Interventions



4. Routing

- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions**
- Masterplan
- Architecture
- Conclusion

Masterplan

Resulting Landscape



- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan**
- Architecture
- Conclusion

Masterplan

New Functions on Site



Situation
Problems
Goals
Research
Concept
Vision
Interventions
Masterplan
Architecture
Conclusion

Masterplan

Provides; Energy buffer



- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan**
- Architecture
- Conclusion

Masterplan

Provides; Flood buffer



Situation

Problems

Goals

Research

Concept

Vision

Interventions

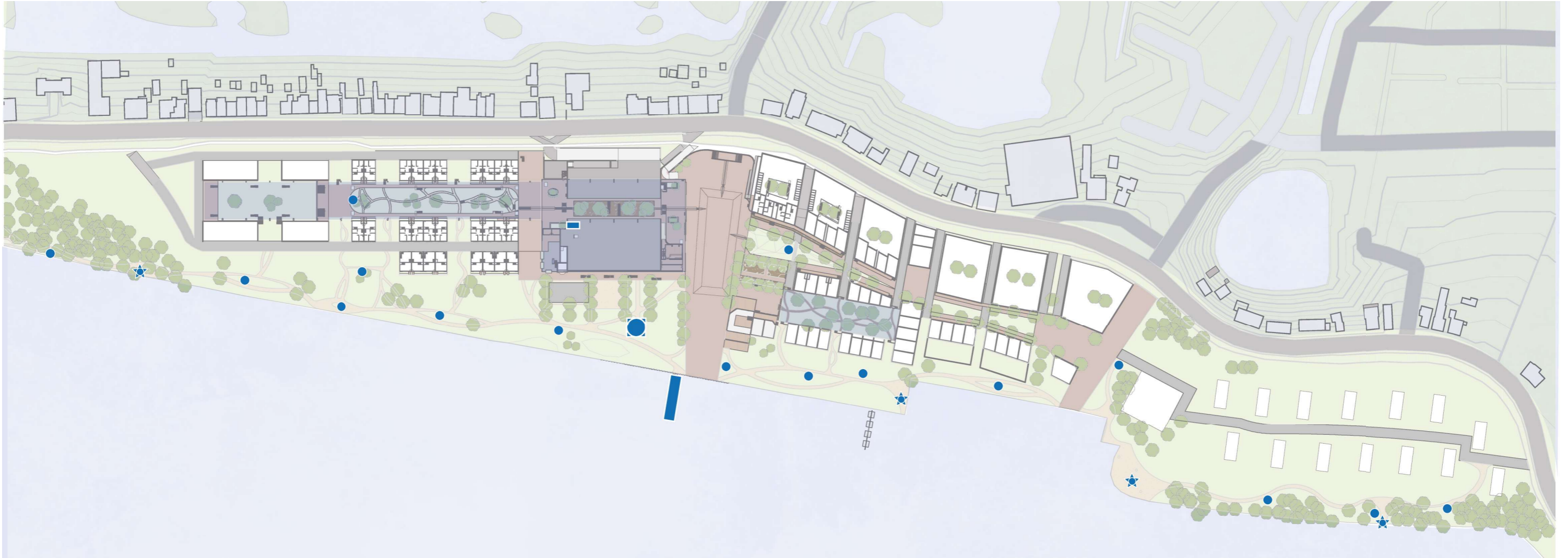
Masterplan

Architecture

Conclusion

Masterplan

Pride: Heritage Markers



Situation

Problems

Goals

Research

Concept

Vision

Interventions

Masterplan

Architecture

Conclusion

Masterplan

Heritage Markers; Stories



vantagepoint,
History of Kloos

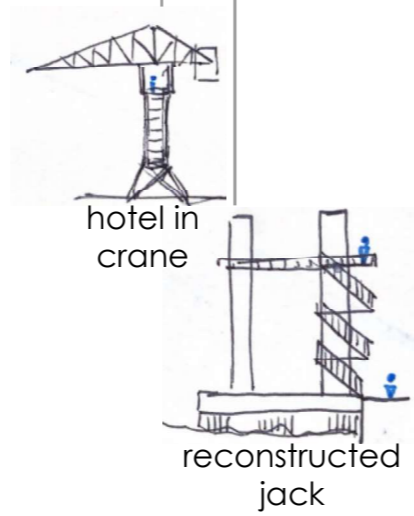


vantagepoint,
life of Workers

- Situation
- Problems
- Goals
- Research
- Concept
- Vision
- Interventions
- Masterplan**
- Architecture
- Conclusion

Masterplan

Heritage Markers; Reconstructions



Situation

Problems

Goals

Research

Concept

Vision

Interventions

Masterplan

Architecture

Conclusion

Masterplan

Heritage Markers; Industrial Artwork



Situation

Problems

Goals

Research

Concept

Vision

Interventions

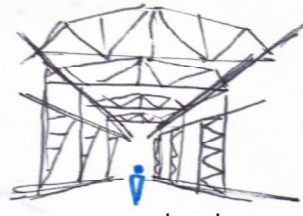
Masterplan

Architecture

Conclusion

Masterplan

Heritage Markers; Atmosphere



open steel structures



open steel structures



contemplation space

Situation

Problems

Goals

Research

Concept

Vision

Interventions

Masterplan

Architecture

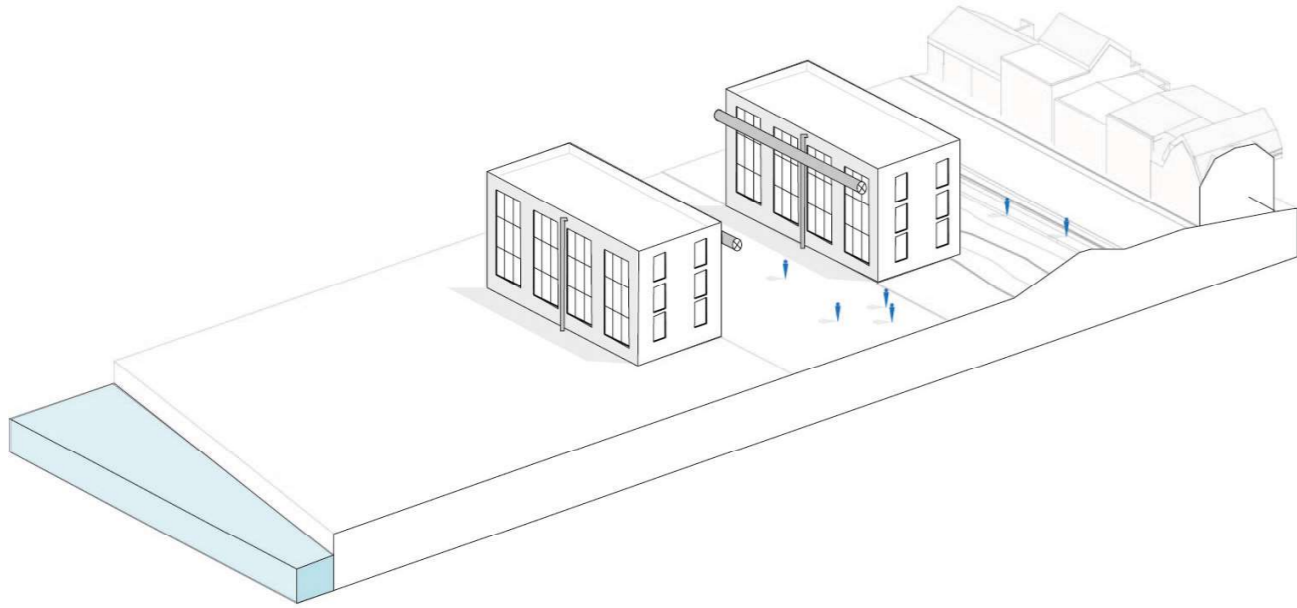
Conclusion

ARCHITECTURE

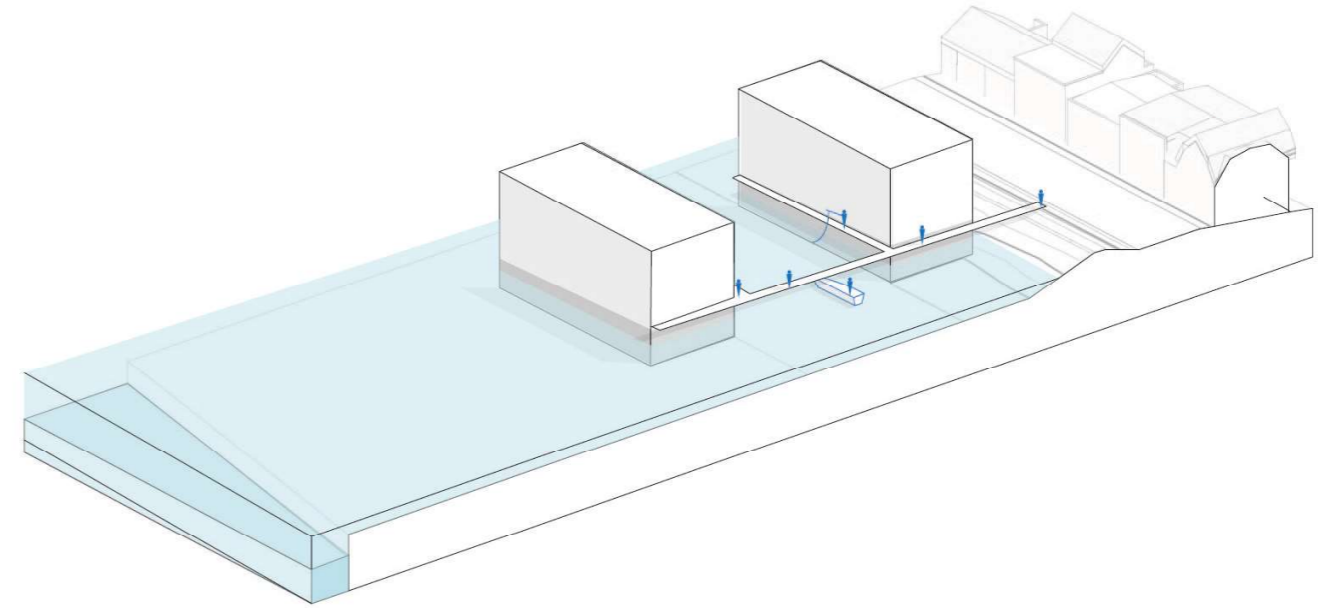
*Robust yet inviting.
Industrial and adaptive.*



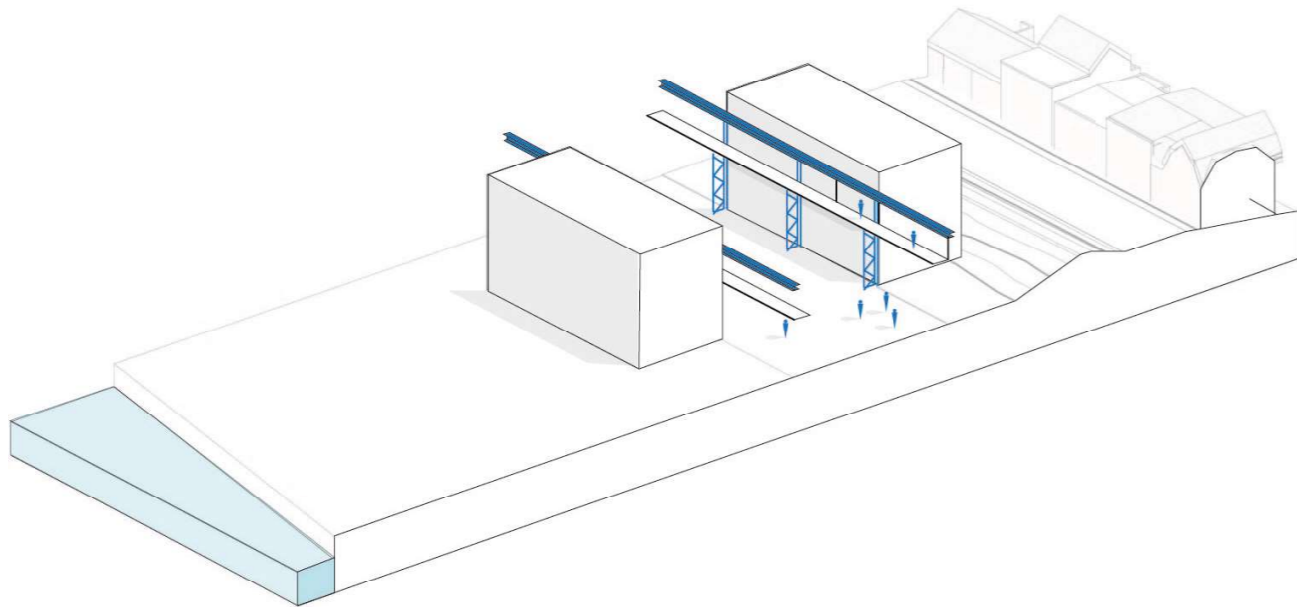
Architectural Concept



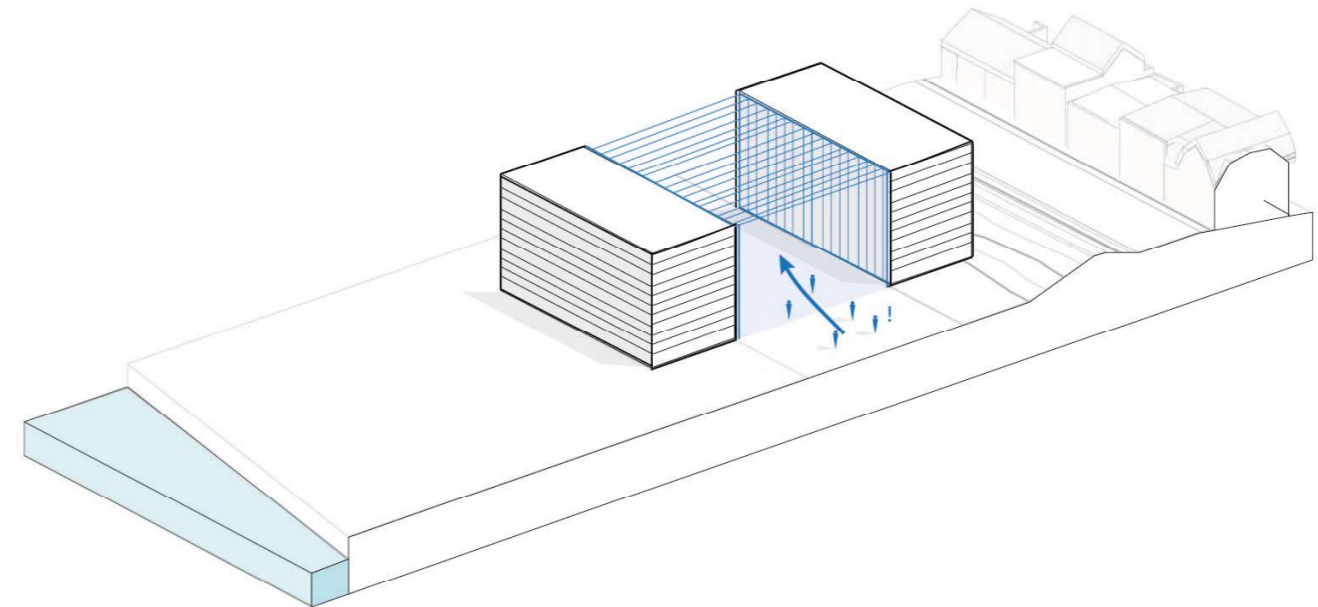
Robust &
Straightforward
Architecture



Resilient, adaptive
Buildings



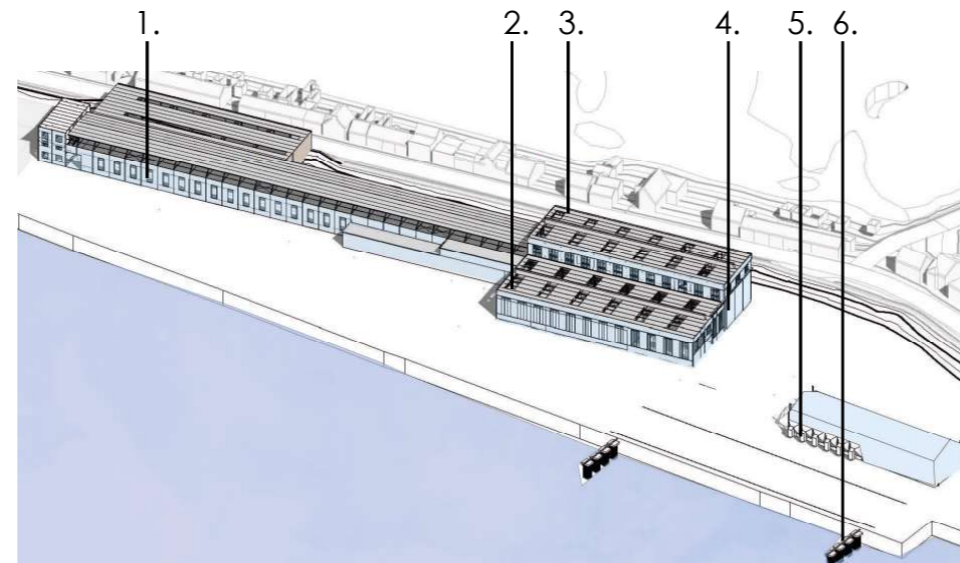
Reuse & Highlight
Existing Structures



Inviting Materials
Contrast Industrial
Architecture

Situation
 Problems
 Goals
 Research
 Concept
 Vision
 Interventions
 Masterplan
Architecture
 Goals
Concept
 Interventions
 - Montagehal
 - Boulevard
 - Square
 - Hoge Hal
 Conclusion

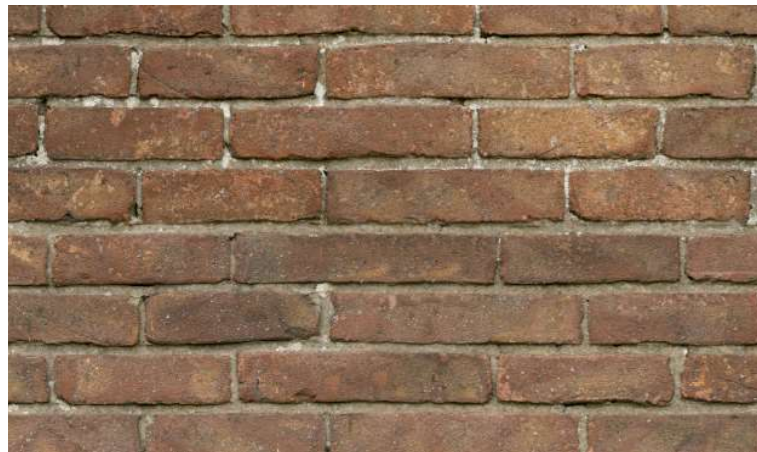
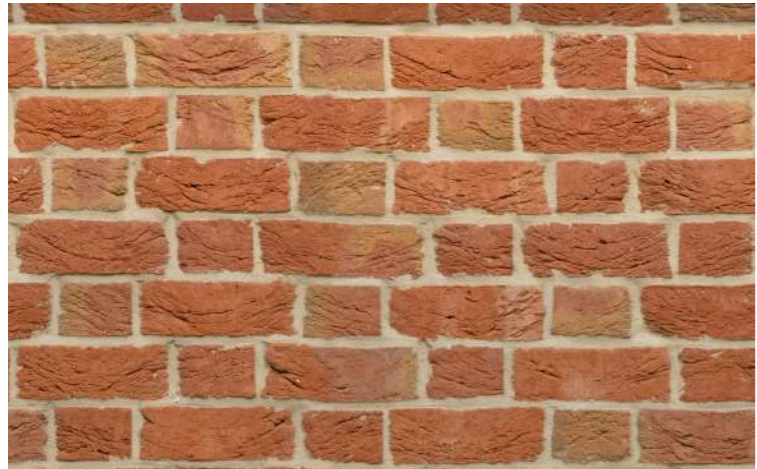
Reuse & Highlight Existing Structures



- Situation
- Problems
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- Vision
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- Concept**
- Interventions
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- Boulevard
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- Hoge Hal
- Conclusion

Inviting Materials Contrast Industrial Architecture

INDUSTRIAL



WARM, INVITING

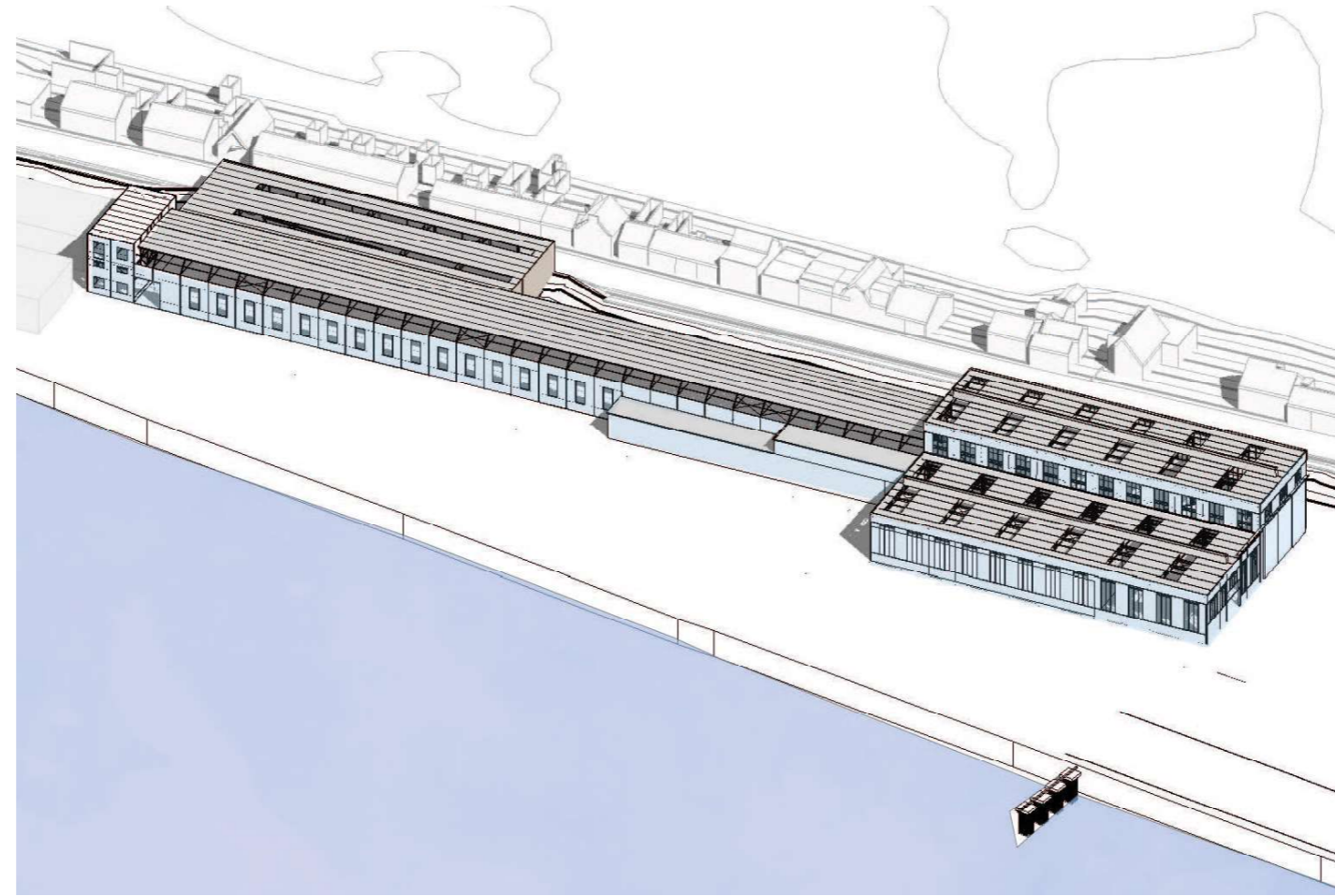


Situation
Problems
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Hall Interventions

Different Approaches

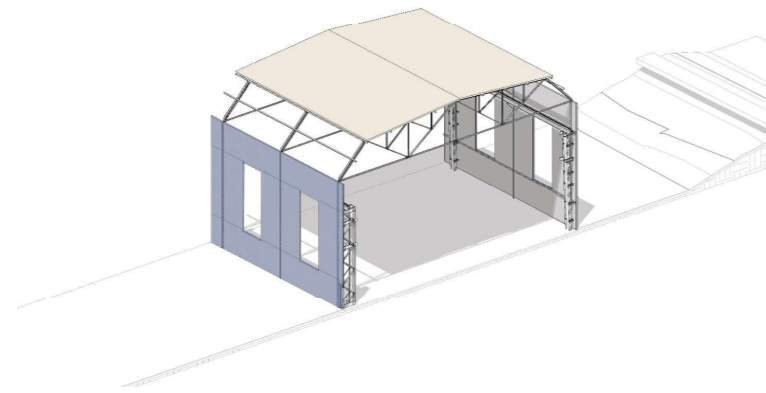
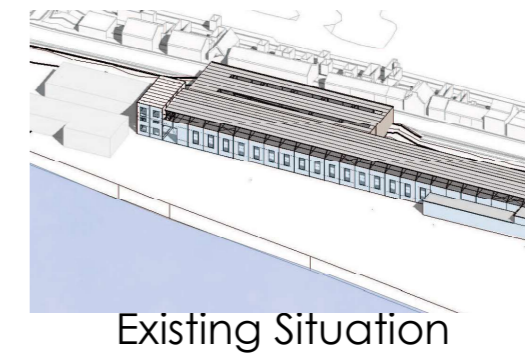


Existing Situation

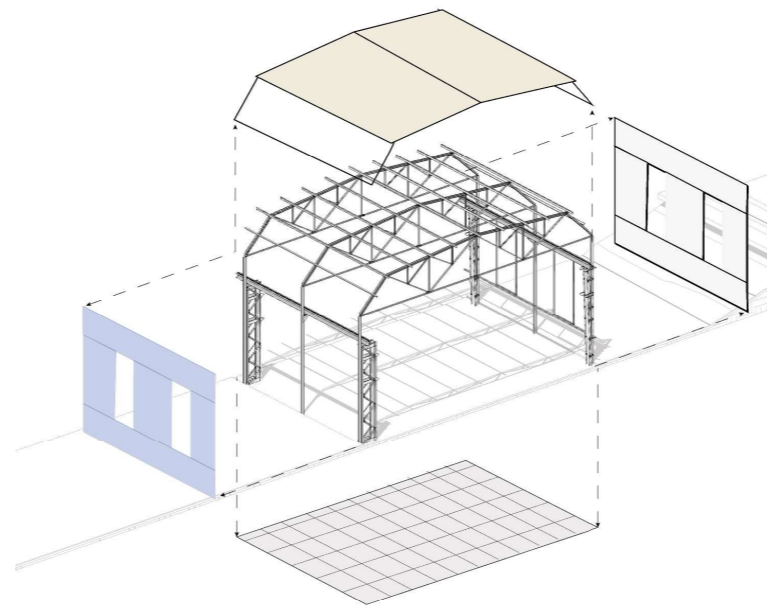
- Situation
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- Masterplan
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Hall Interventions

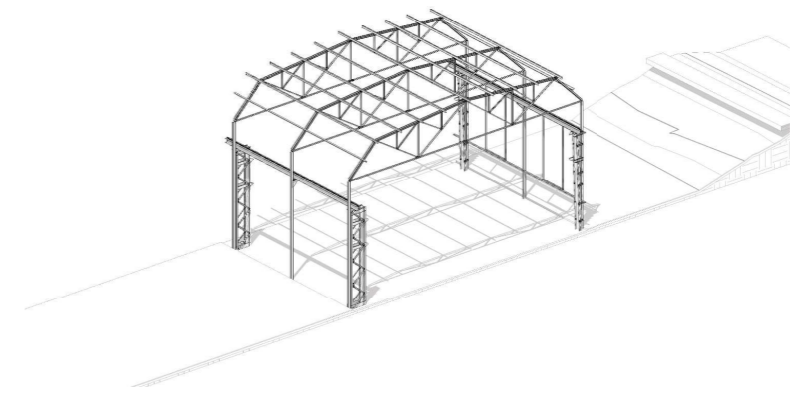
Montagehal Approach



existing situation



removing skin and floor

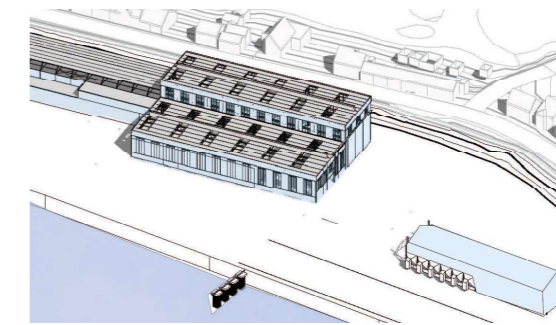


refurbish steel structures

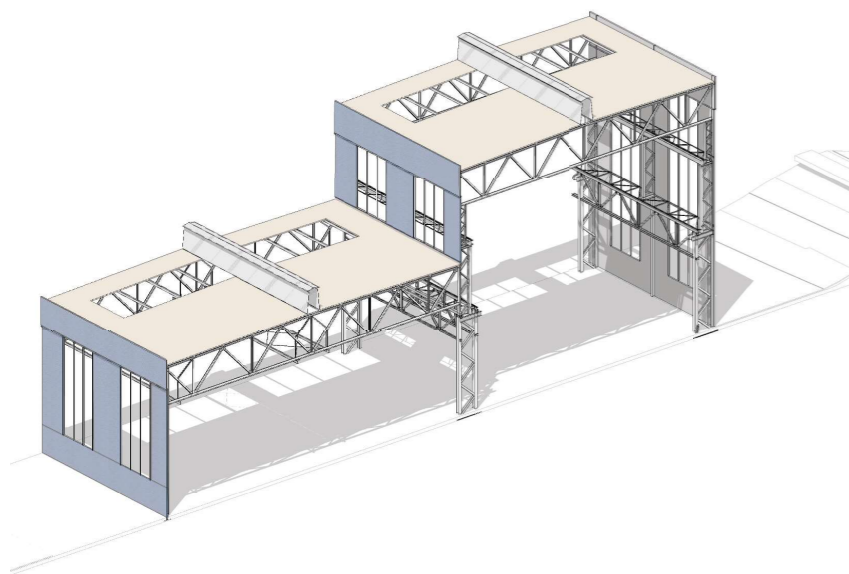
- Situation
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Hall Interventions

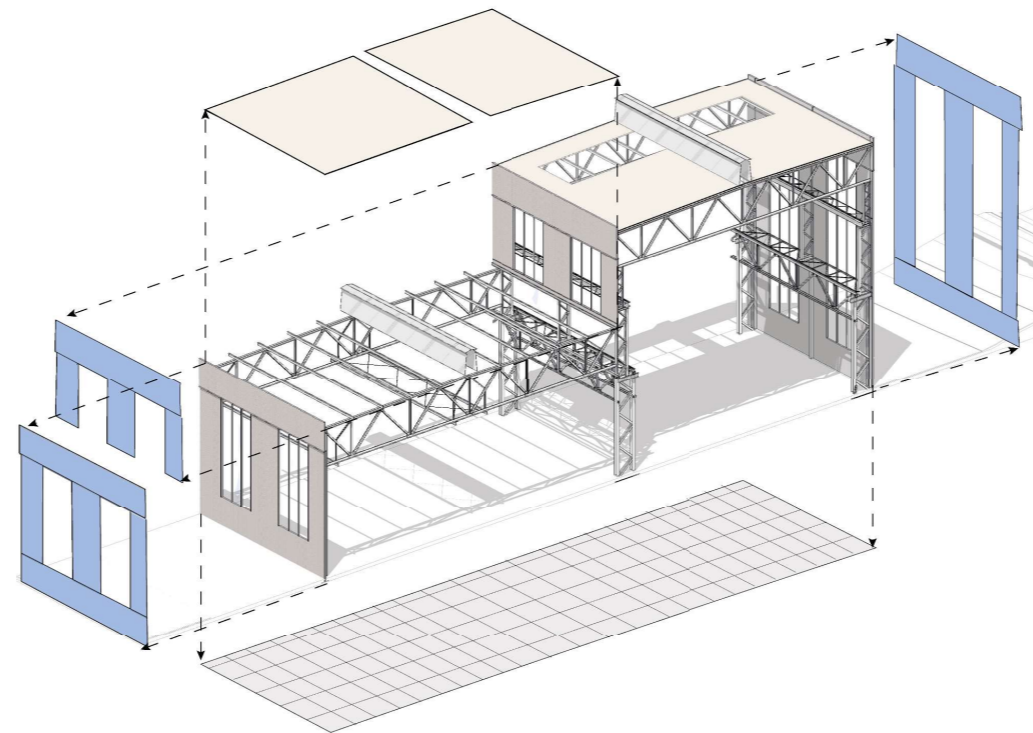
Hoge & Lage Hal Approach



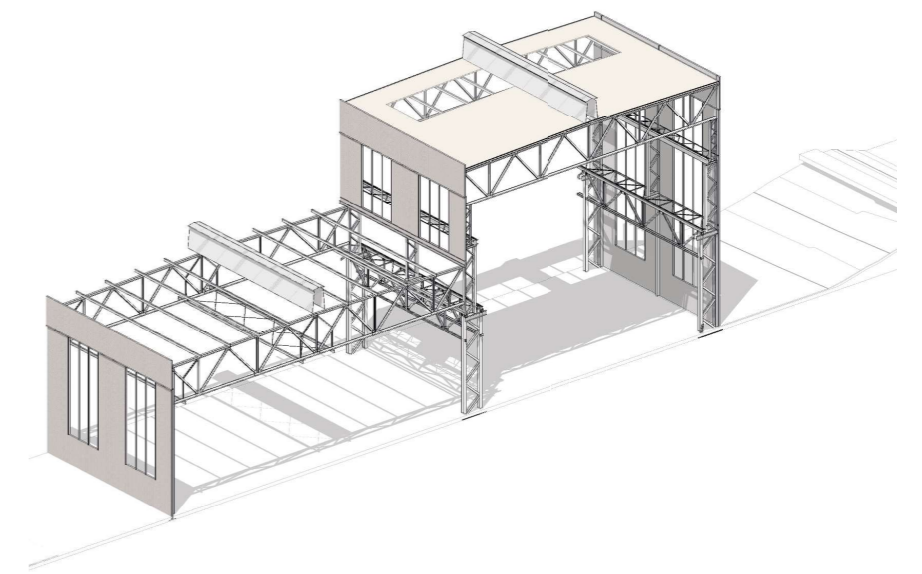
Existing Situation



existing situation



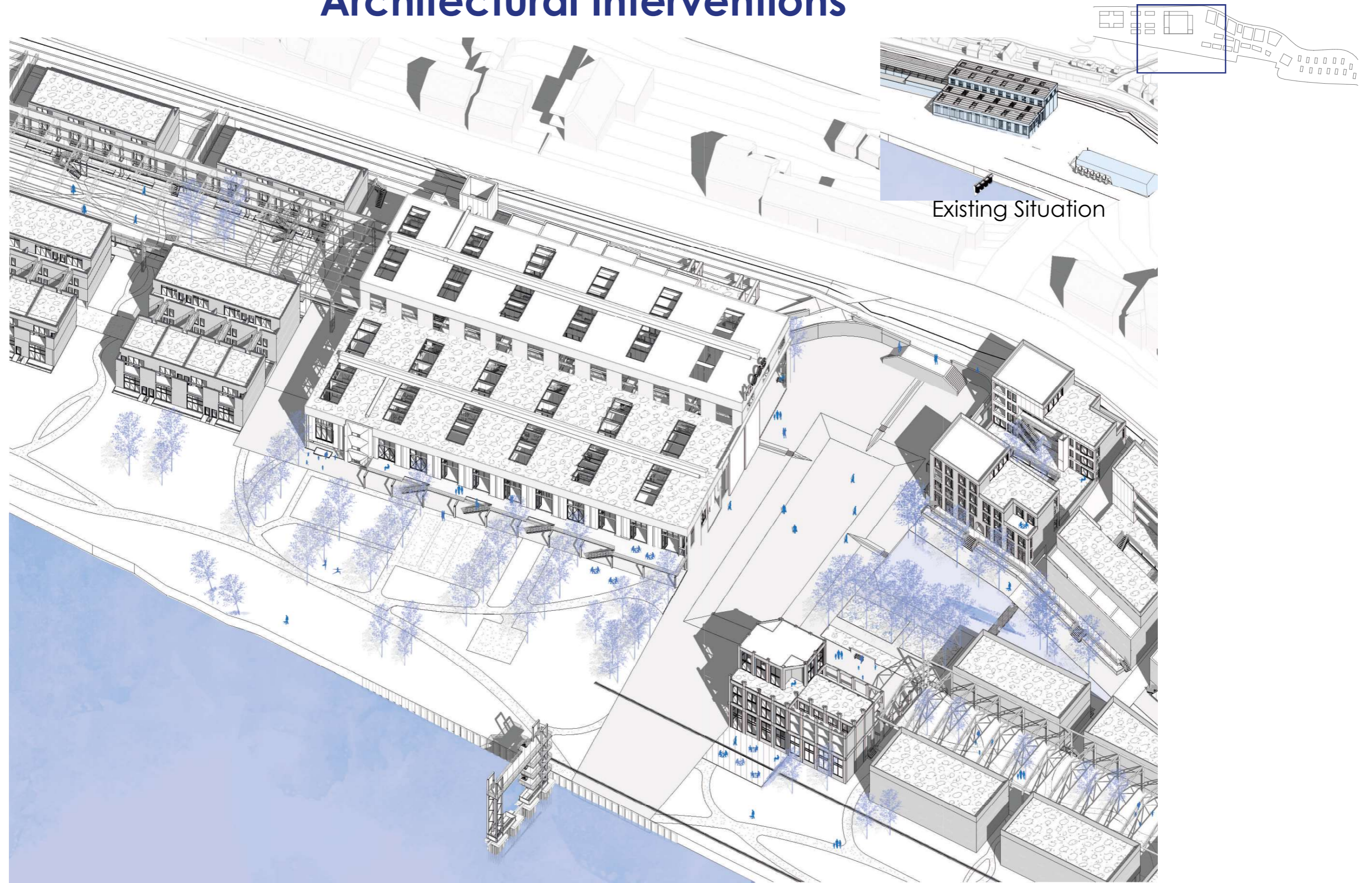
partially removing skin and floor



refurbish steel structures, skin

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- Conclusion

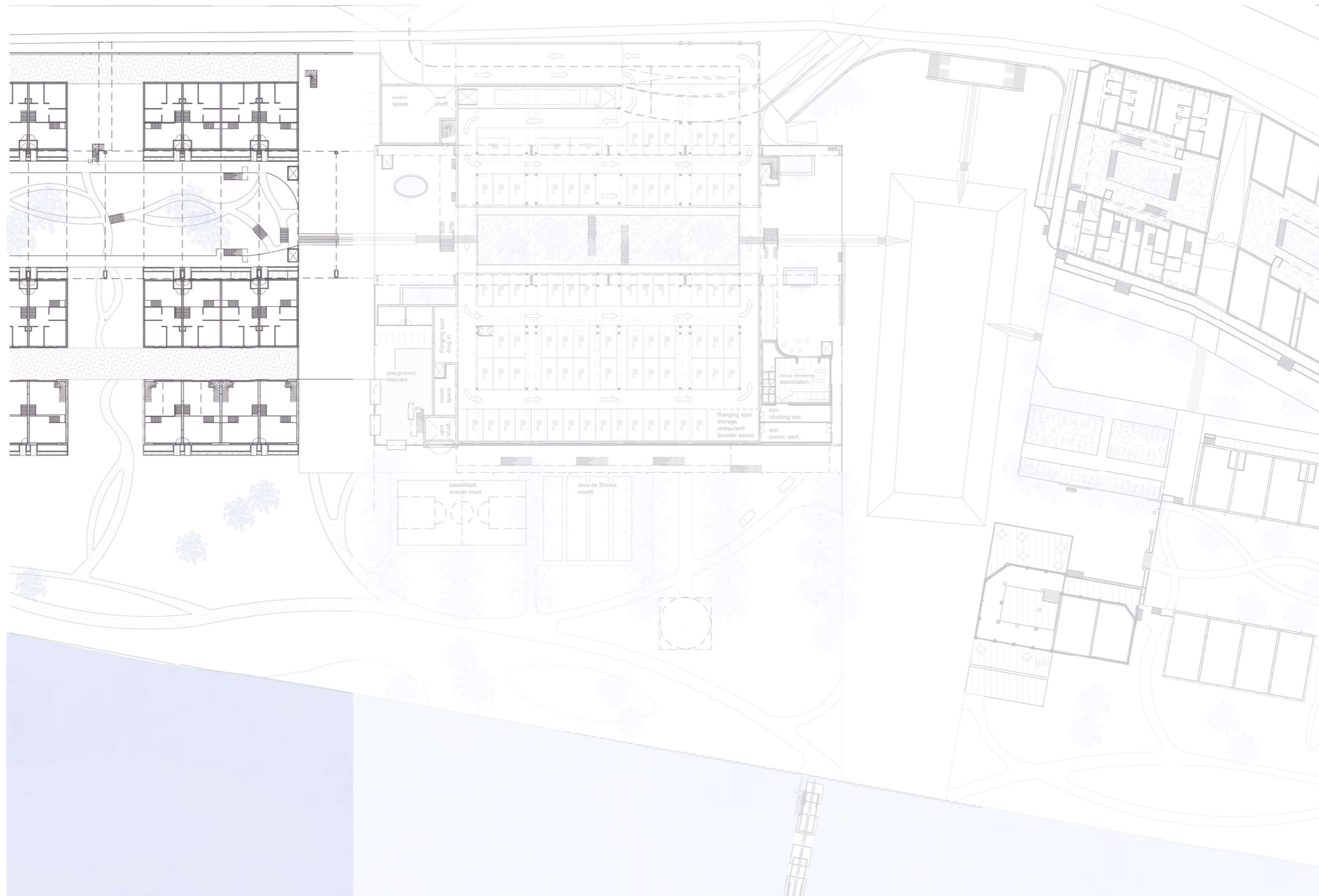
Architectural Interventions



- Situation
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- Goals
- Concept
- Interventions**
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- Conclusion

Architecture

Montagehal



Situation

Problems

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Research

Concept

Vision

Interventions

Masterplan

Architecture

Goals

Concept

Interventions

- Montagehal

- Boulevard

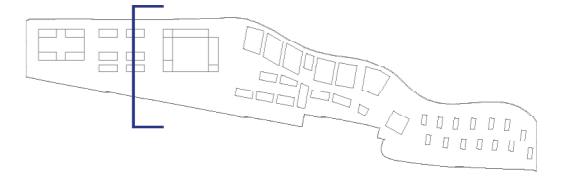
- Square

- Hoge Hal

Conclusion

Architecture

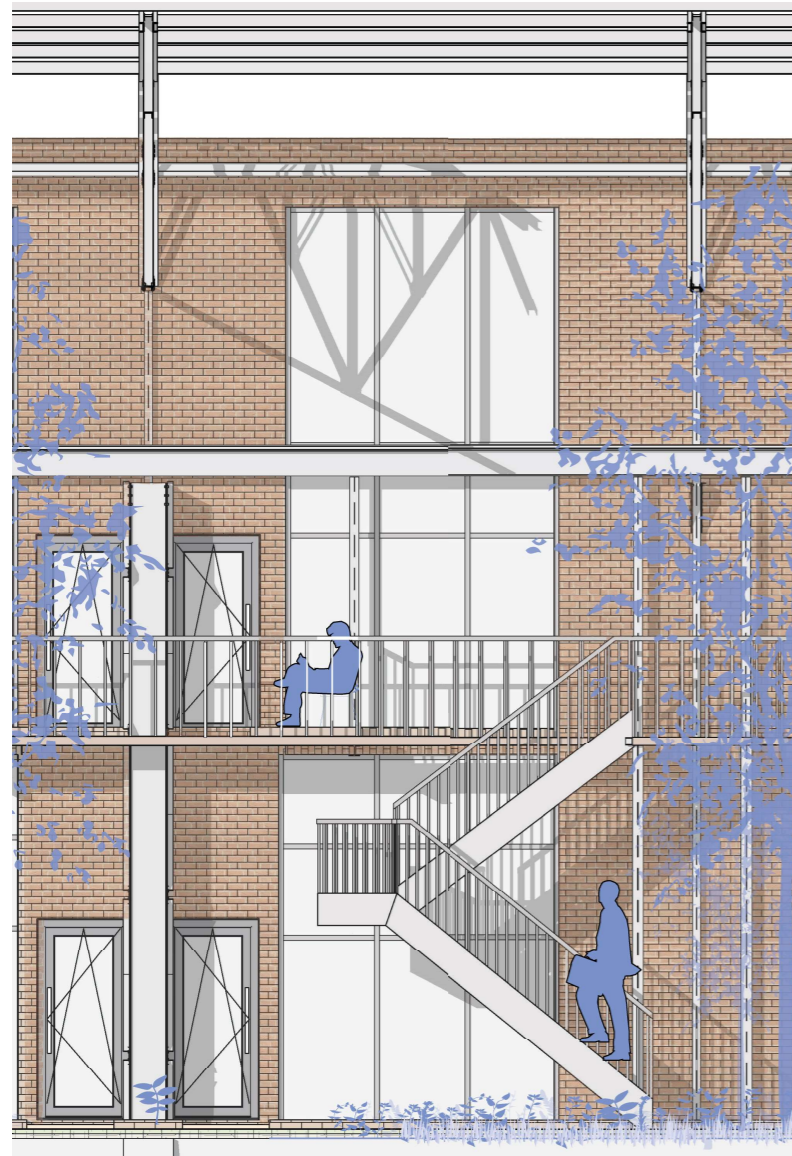
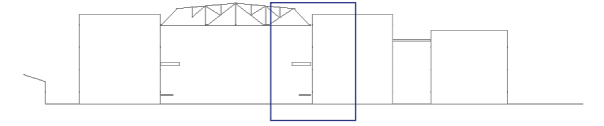
Montagehal



Situation
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Conclusion

Architecture

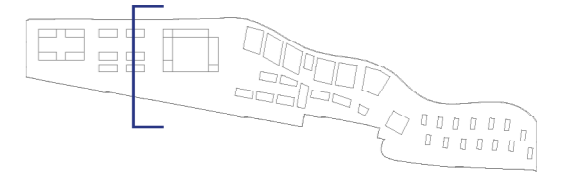
Montagehal



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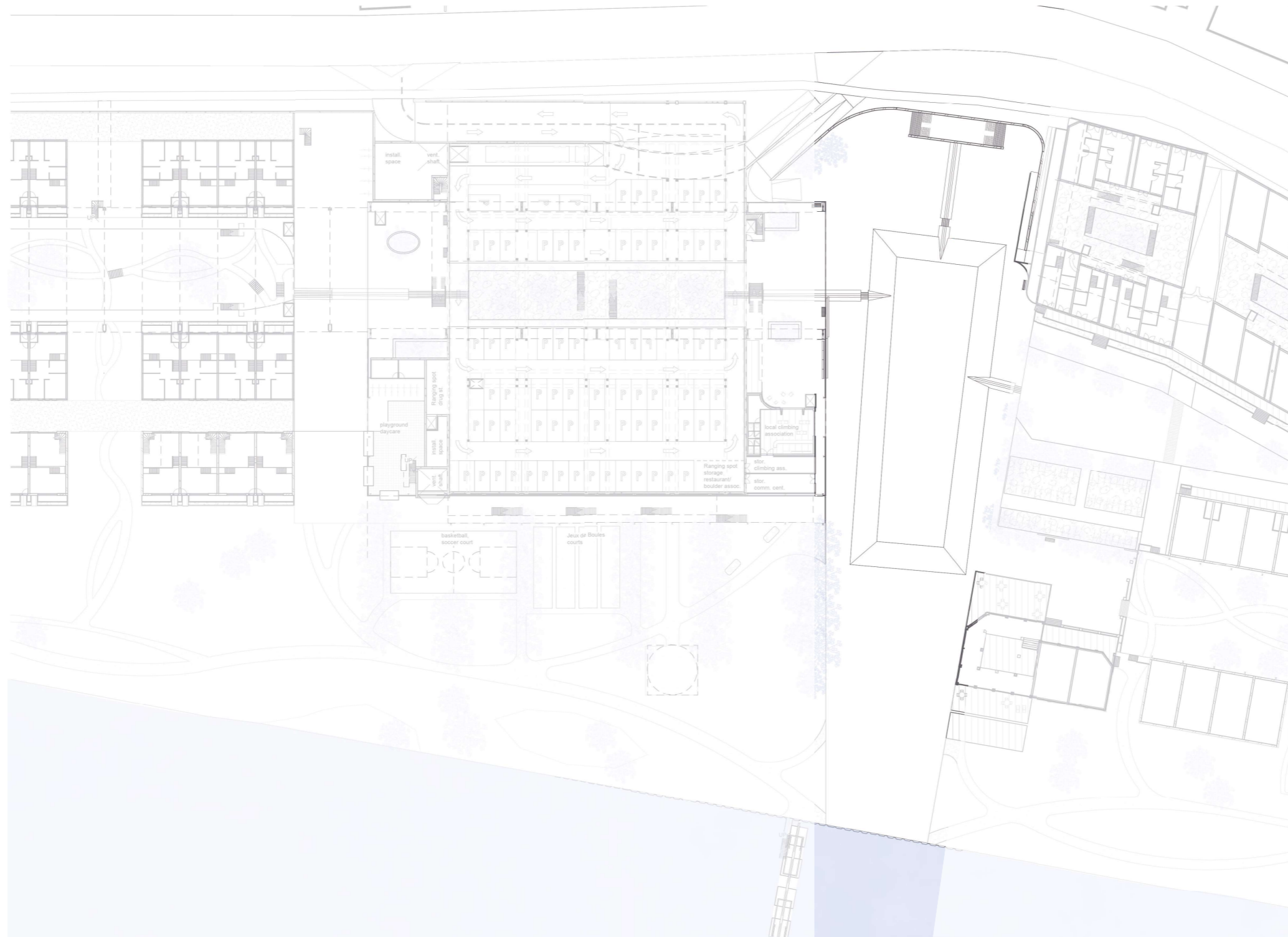
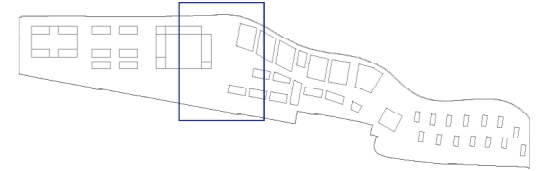
Architecture

Montagehal



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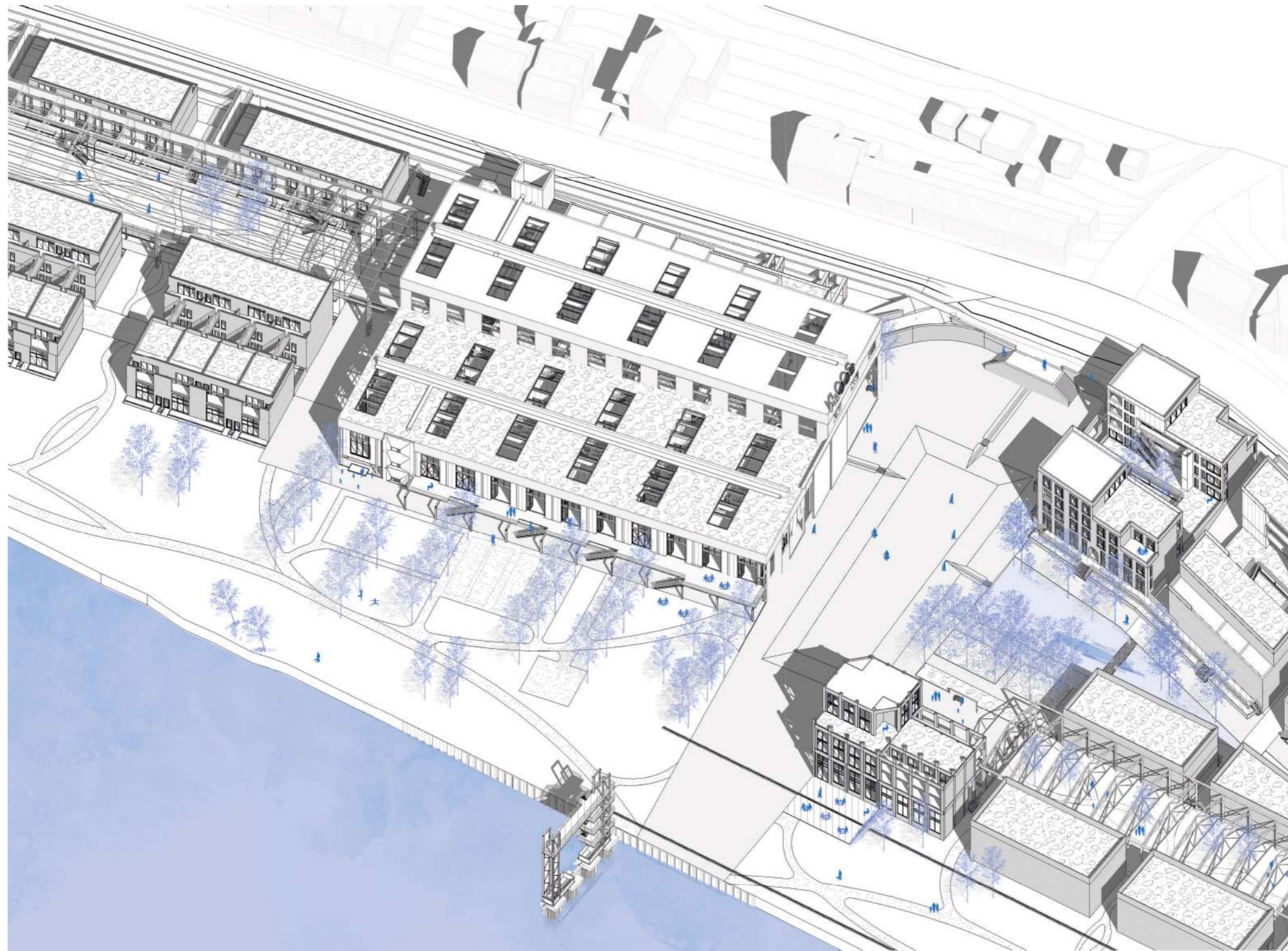
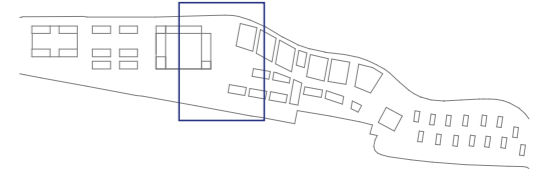
Architecture Square



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- Interventions
- Masterplan
- Architecture
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 - Montagehal
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- Conclusion

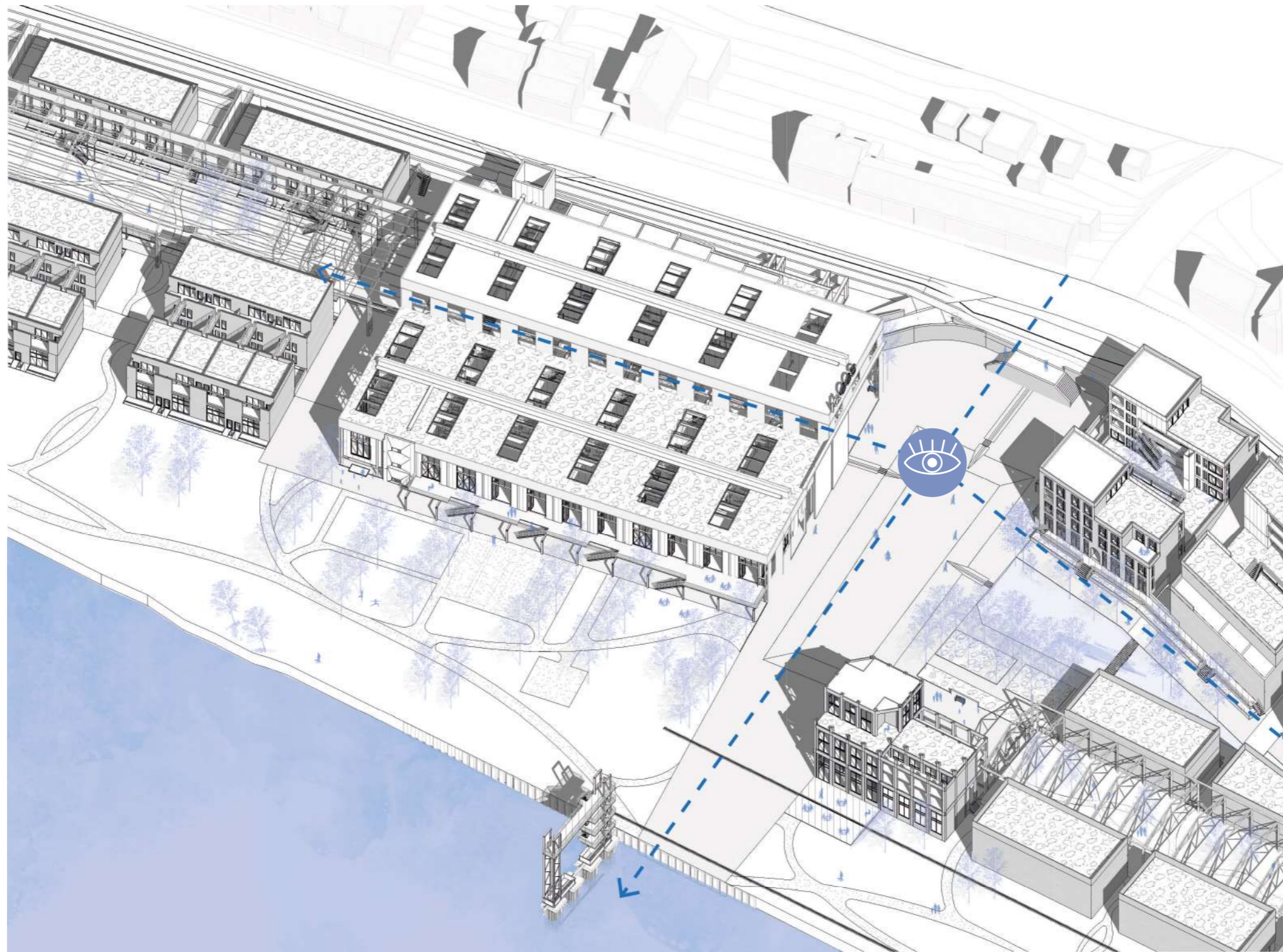
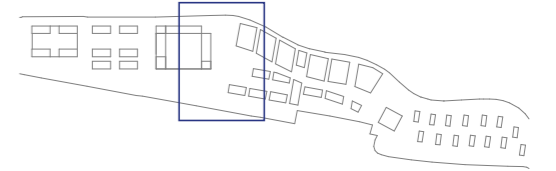
Architecture

Square



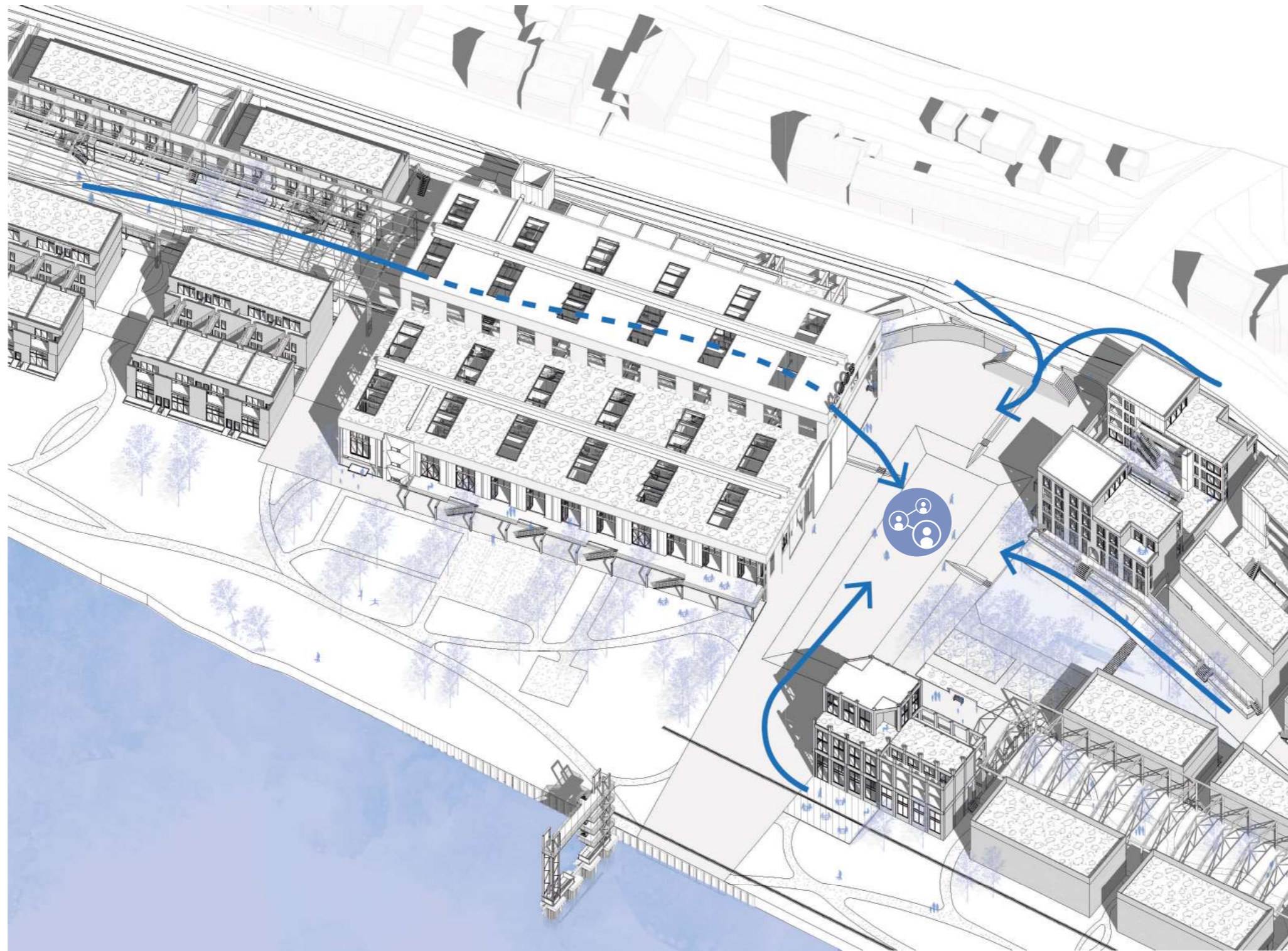
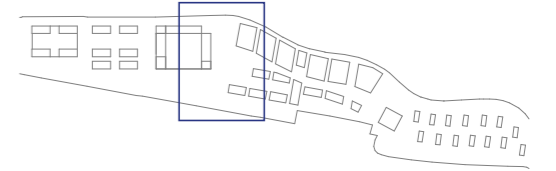
- Situation
- Problems
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Architecture Square



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- Masterplan
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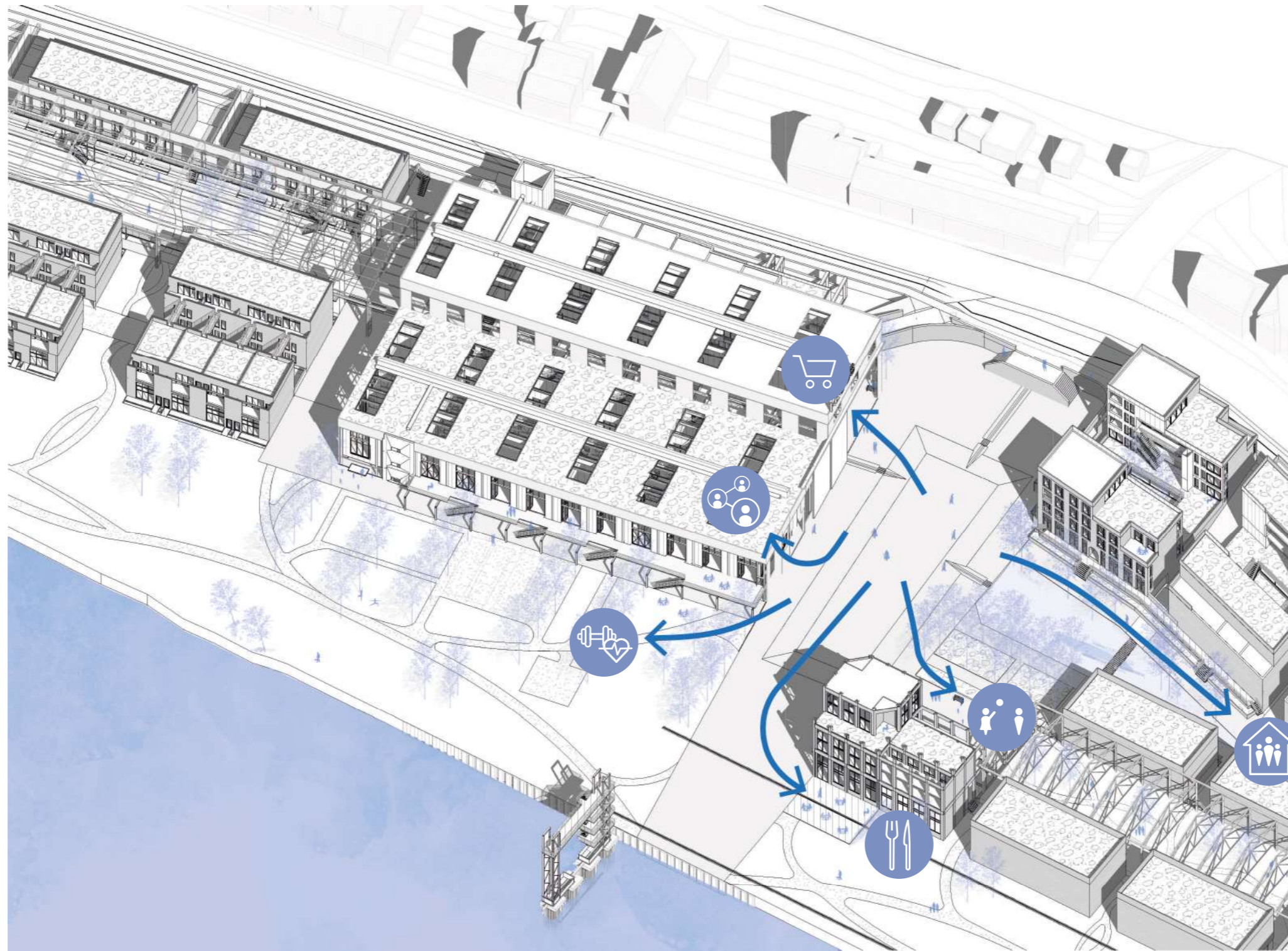
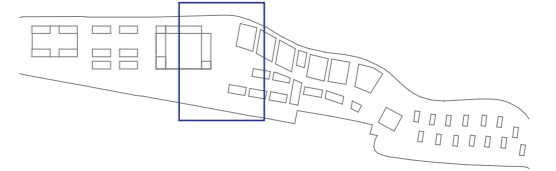
Architecture Square



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- Masterplan
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- Goals
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- Interventions**
 - Montagehal
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Architecture

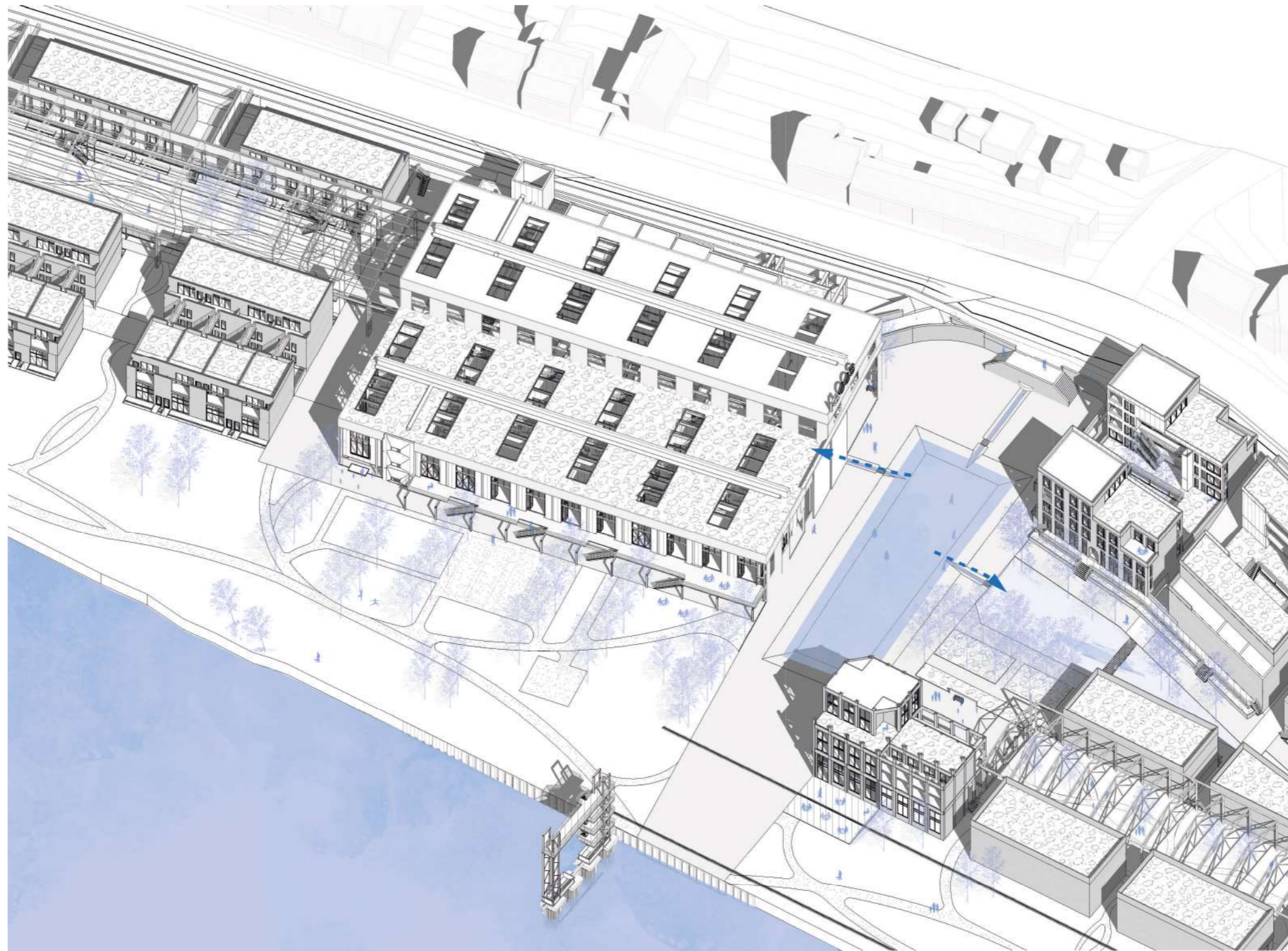
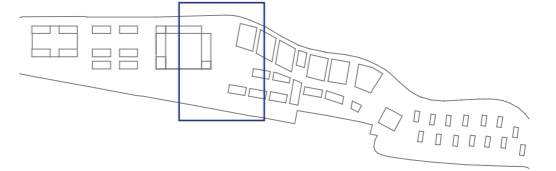
Square



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- Montagehal
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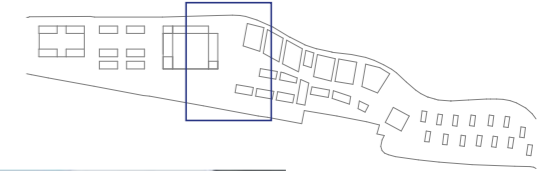
Architecture

Square



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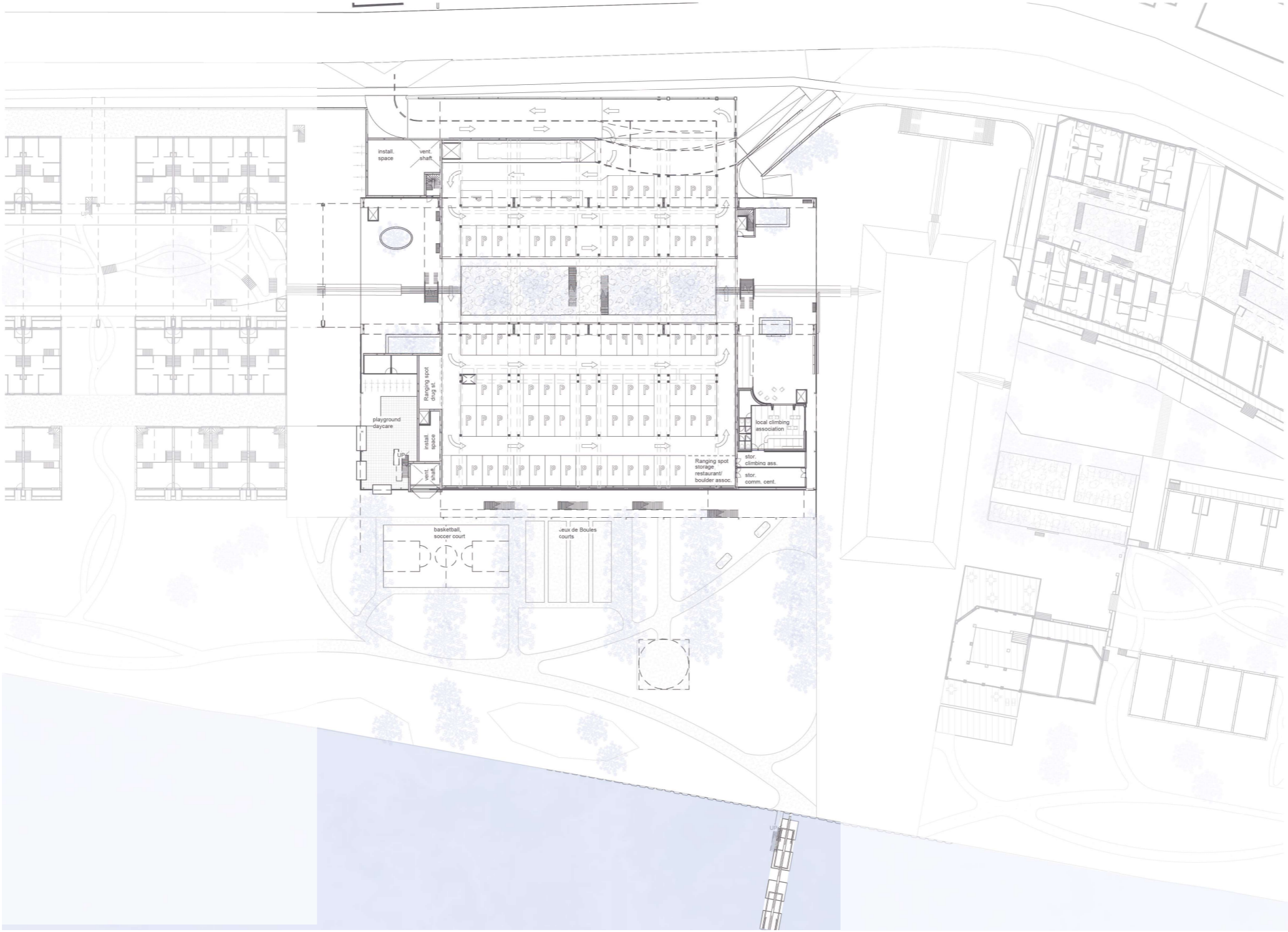
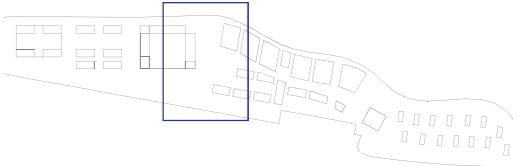
Architecture Square



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Architecture

Hoge & Lage Hal



Situation

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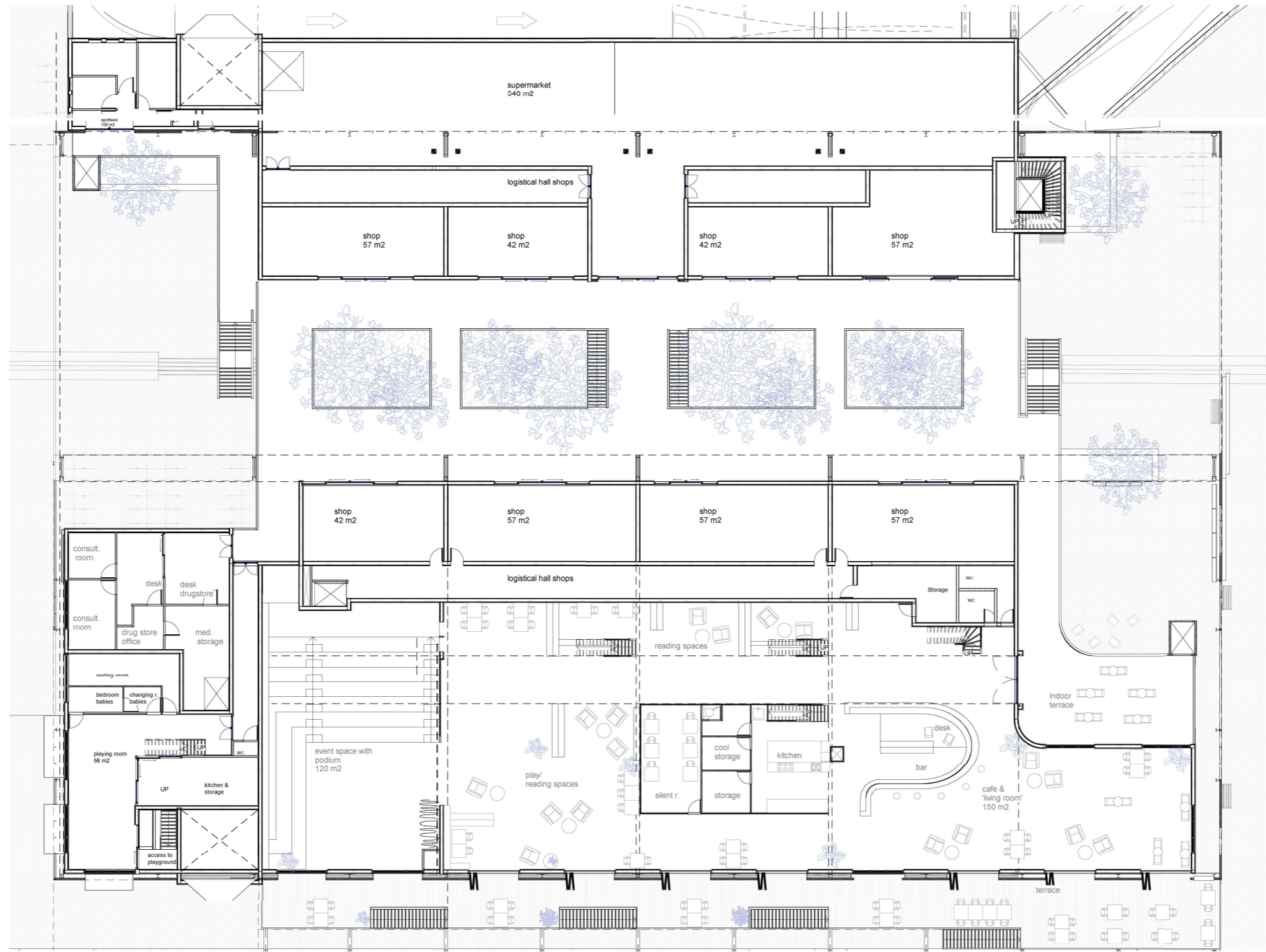
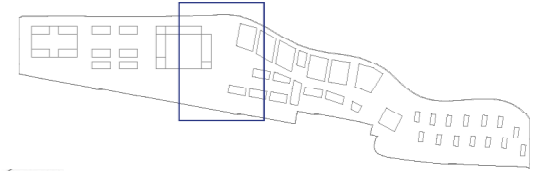
- Square

- **Hoge Hal**

Conclusion

Hoge & Lage Hal

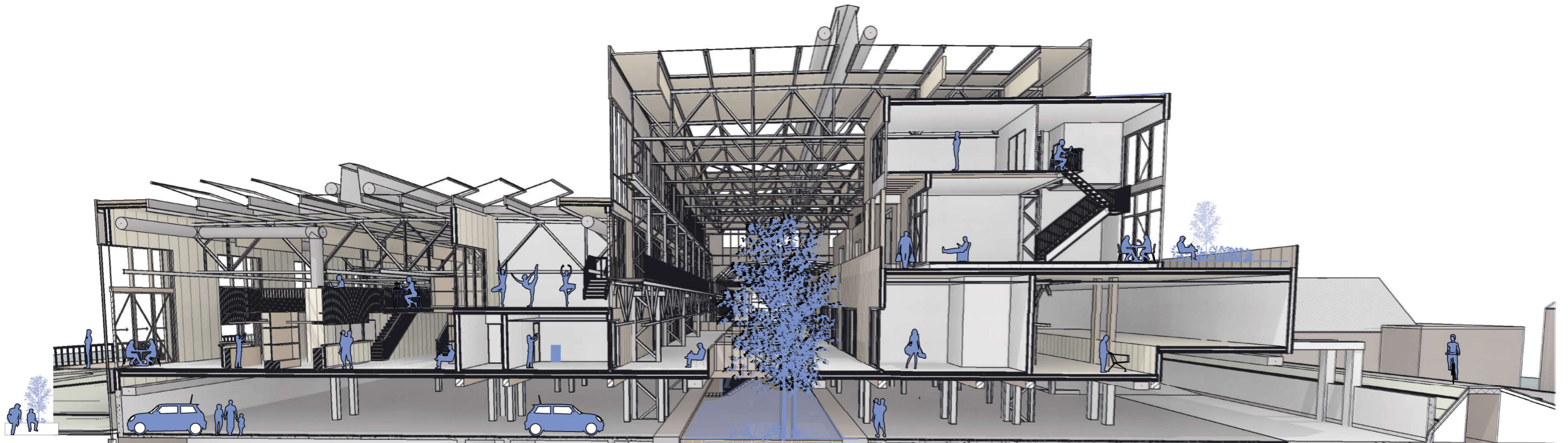
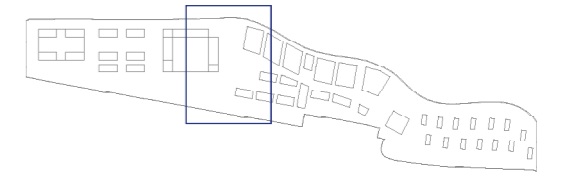
Central Gathering Point



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Hoge & Lage Hal

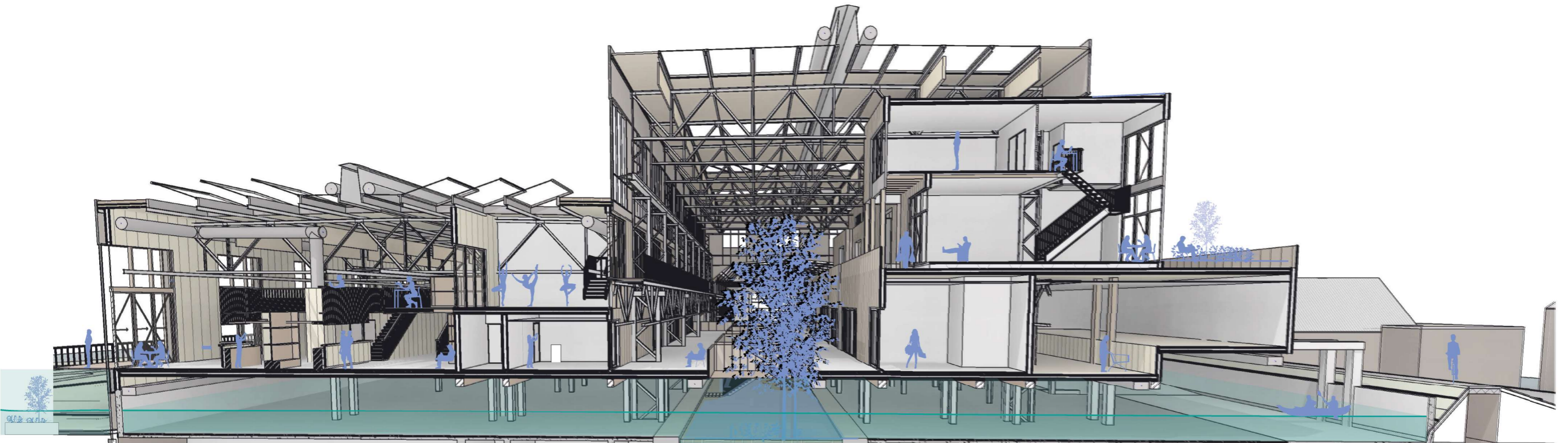
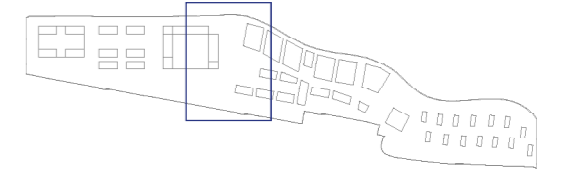
How it works



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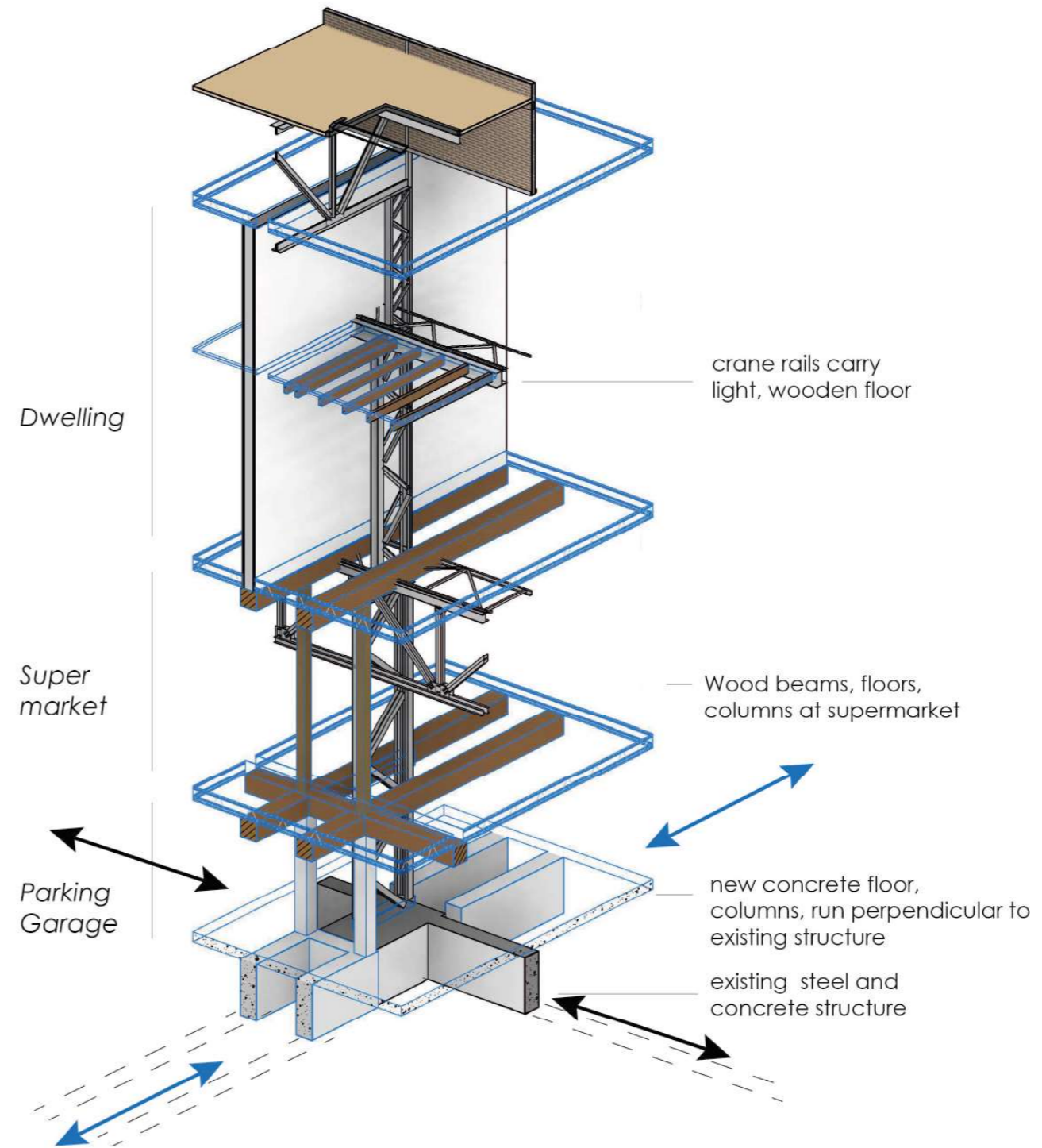
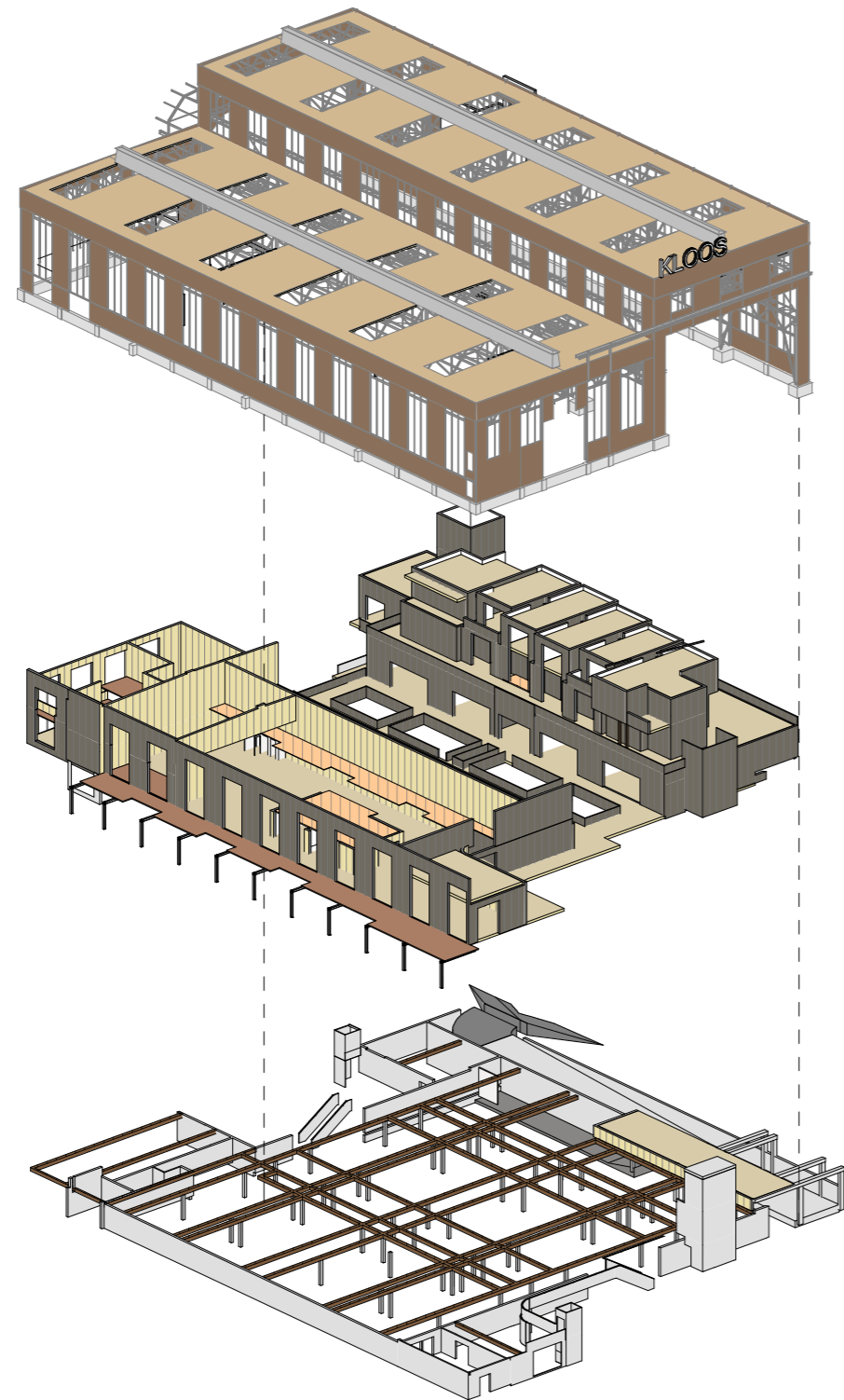
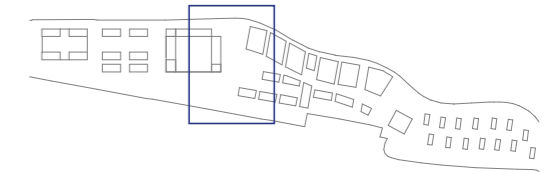
When it Floods



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Hoge Hal & Lage I Structure

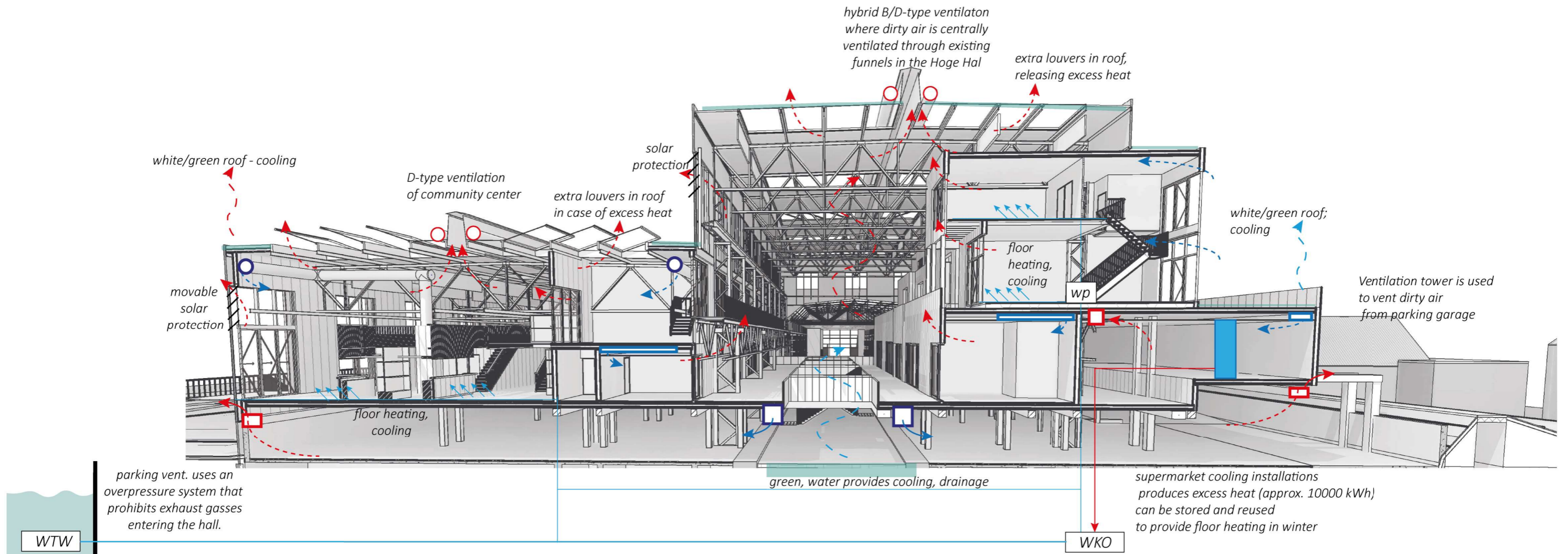
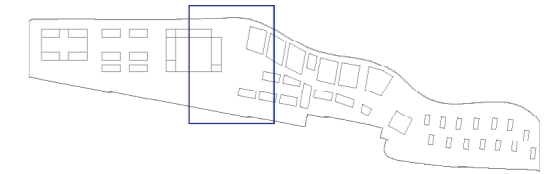
Perpendicular box-in-box



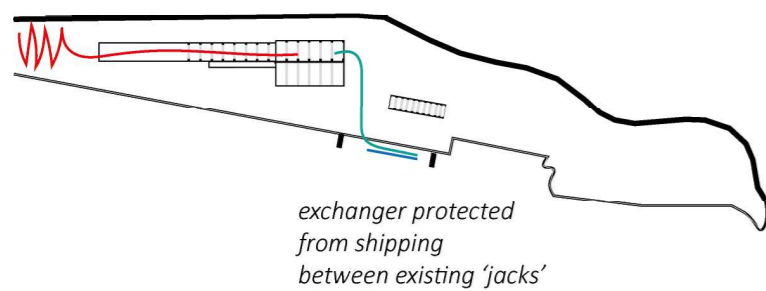
- Situation
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Hoge Hal & Lage I Climate

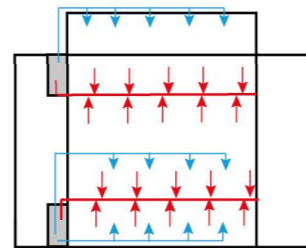
Futureproof, reuse existing elements



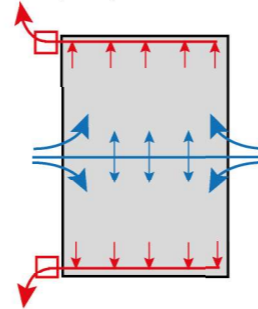
heat exchanger, extracting cold energy from the Noord River



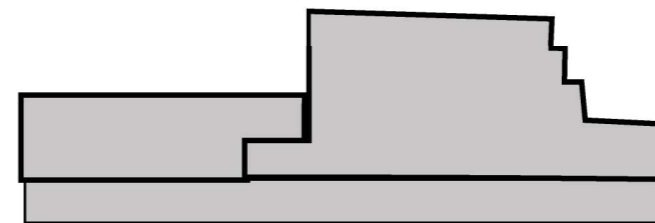
D roof ventilation; floorplan



D parking ventilation; floorplan



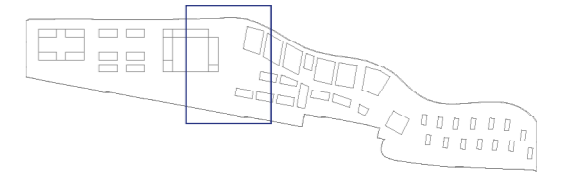
separate ventilation systems



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Hoge & Lage Hal

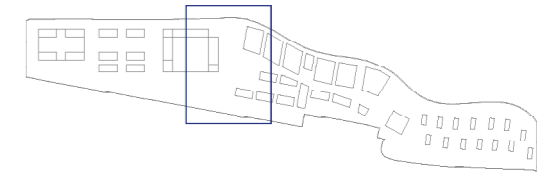
Impression



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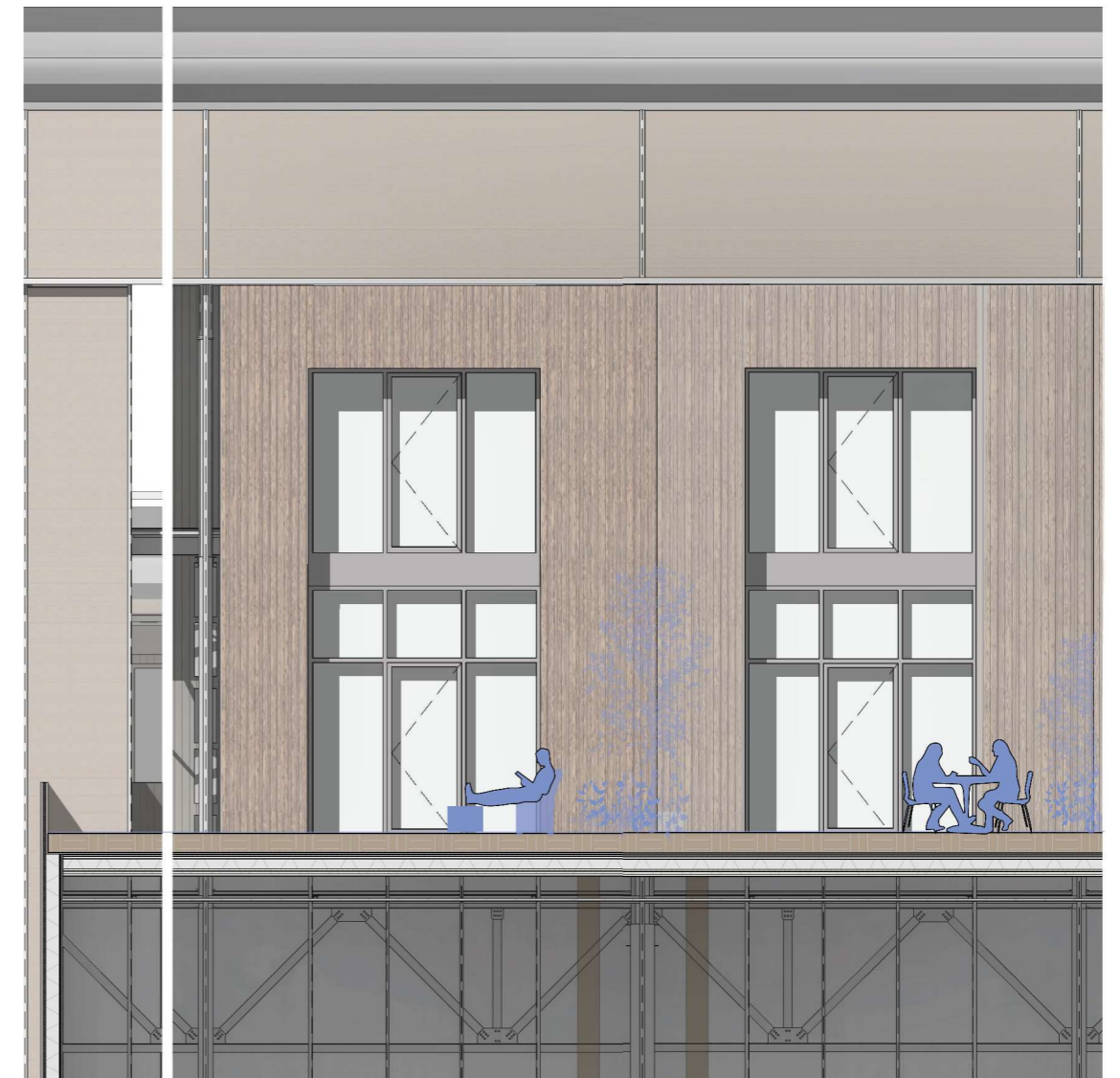
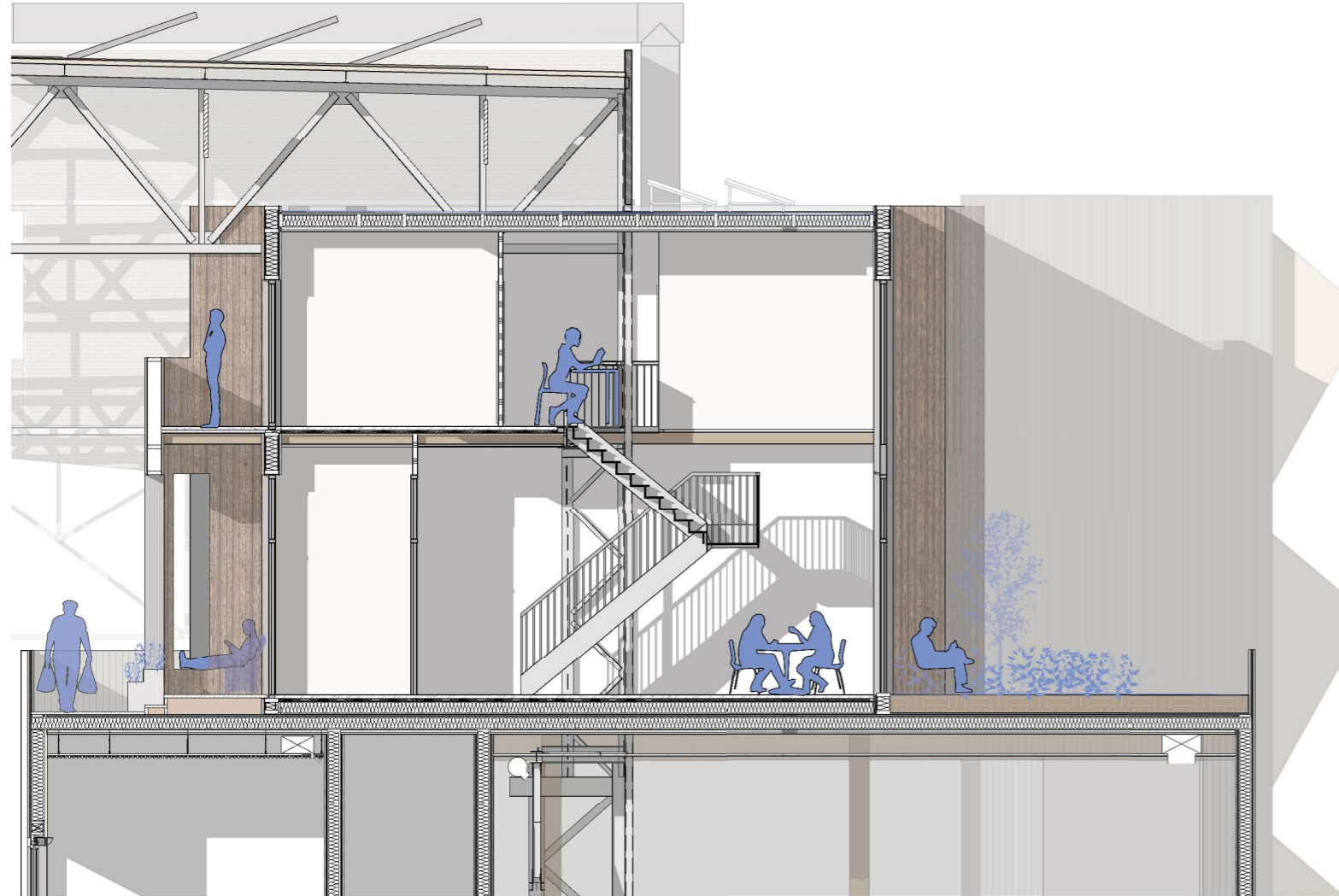
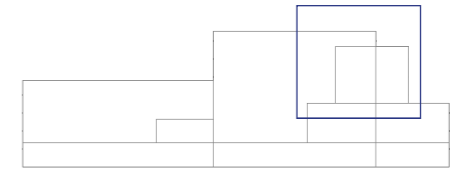
Impression



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Hoge & Lage Hal I Dwellings

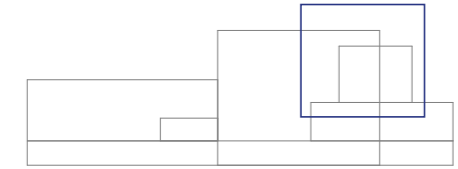
Reusing crane track for exclusive views



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Hoge & Lage Hal I Dwellings

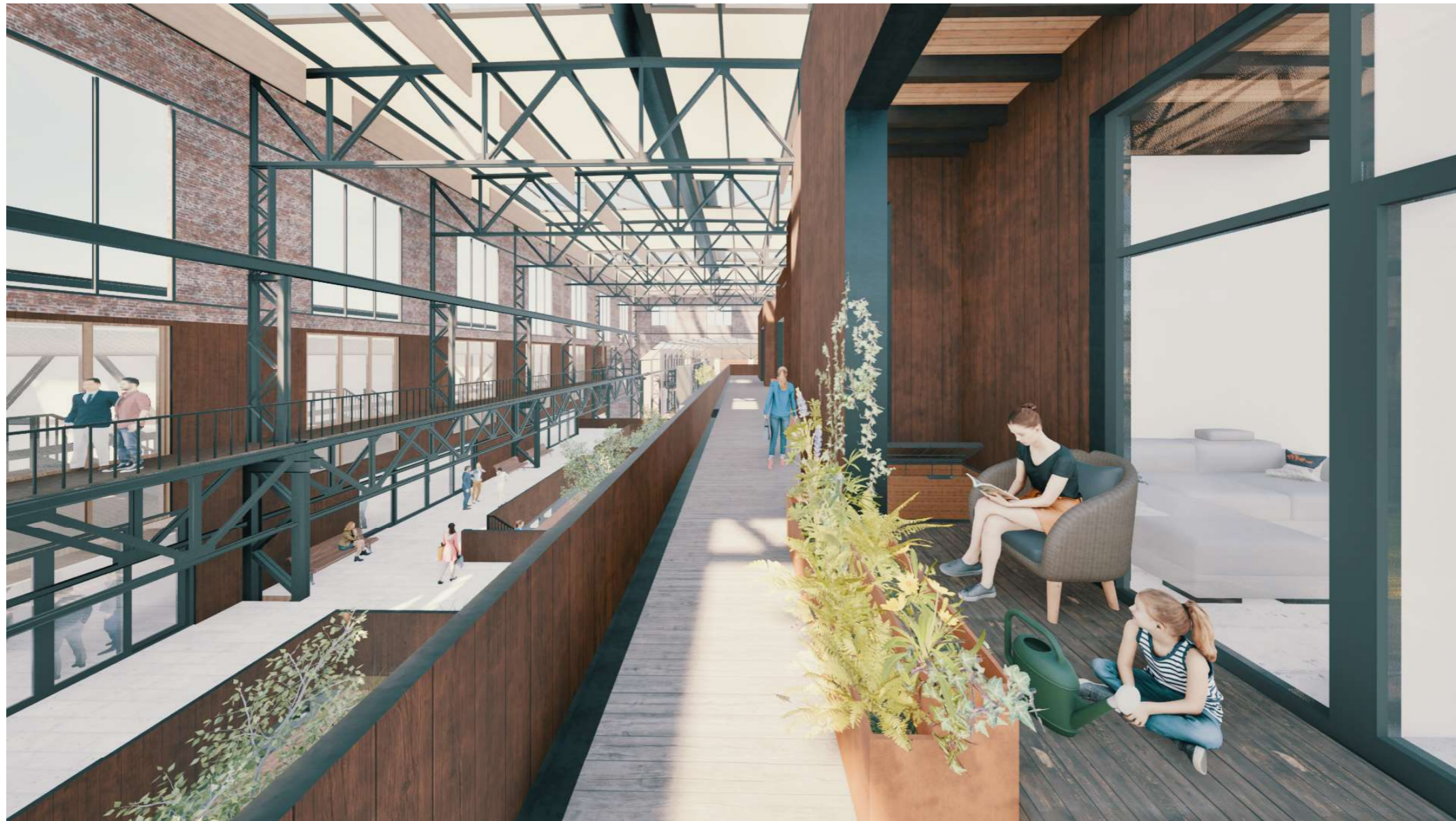
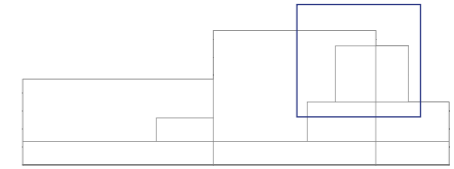
Reusing crane track for exclusive views



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Hoge & Lage Hal | Dwellings

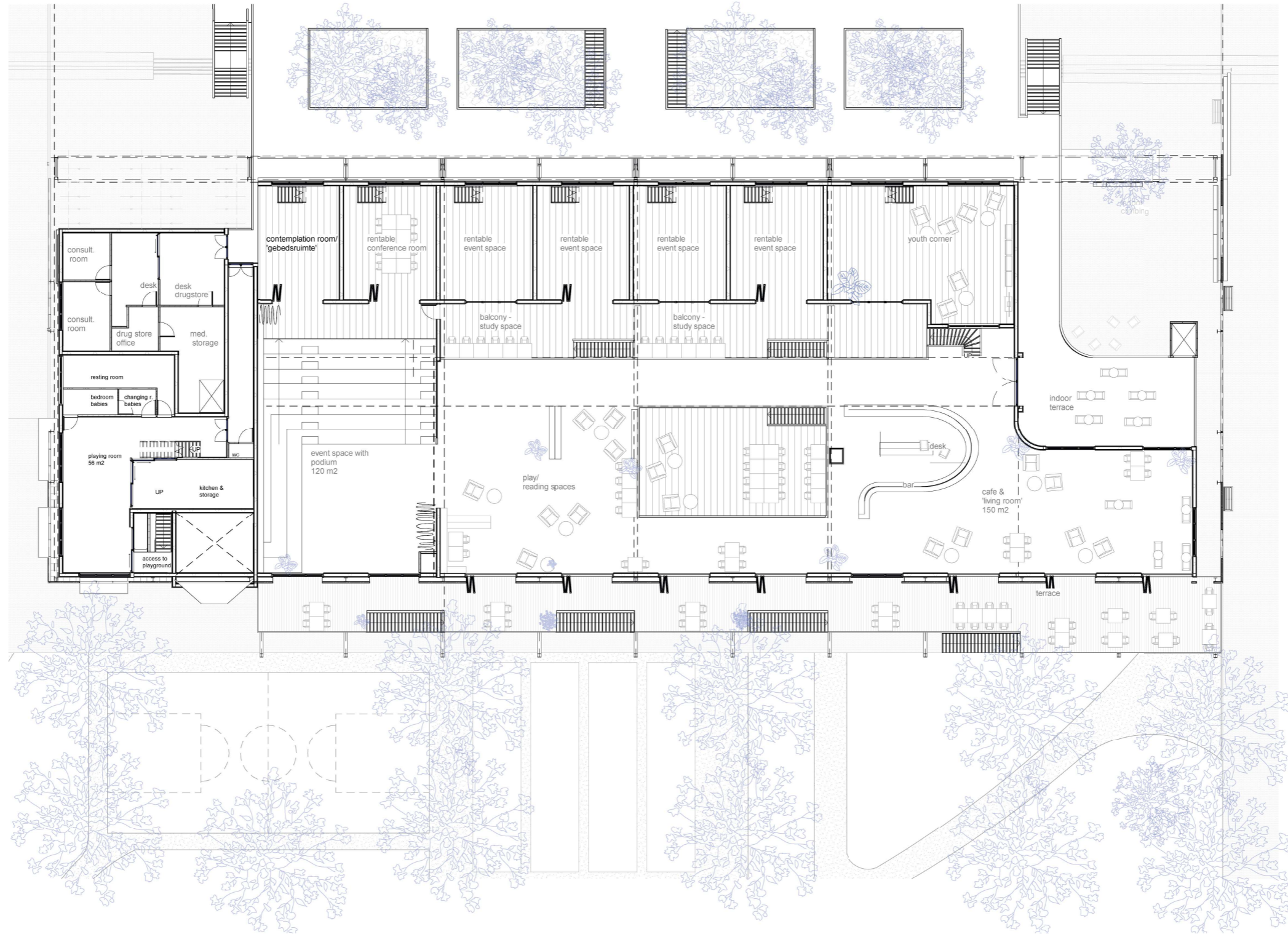
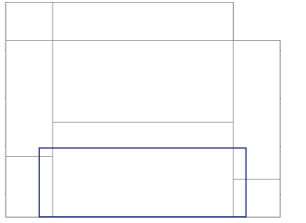
view inside the Hall



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Hoge & Lage Hal I Community Center

stimulate interaction among residents



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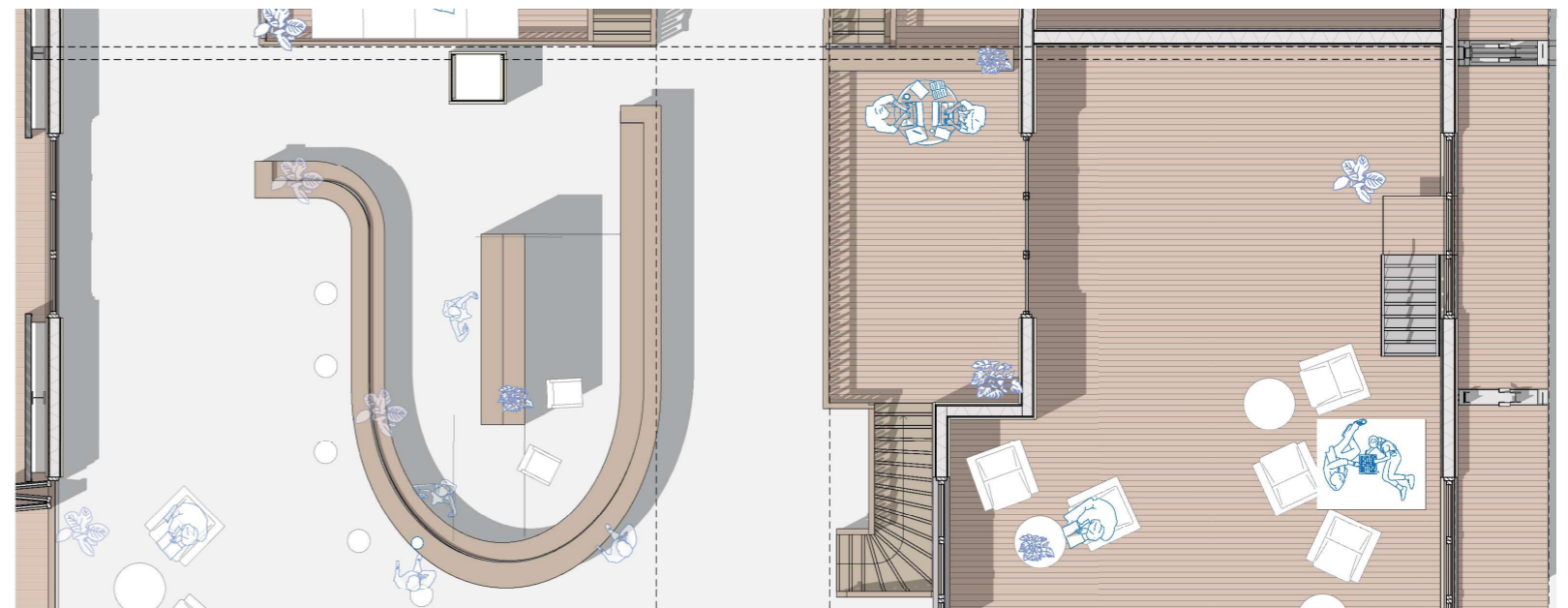
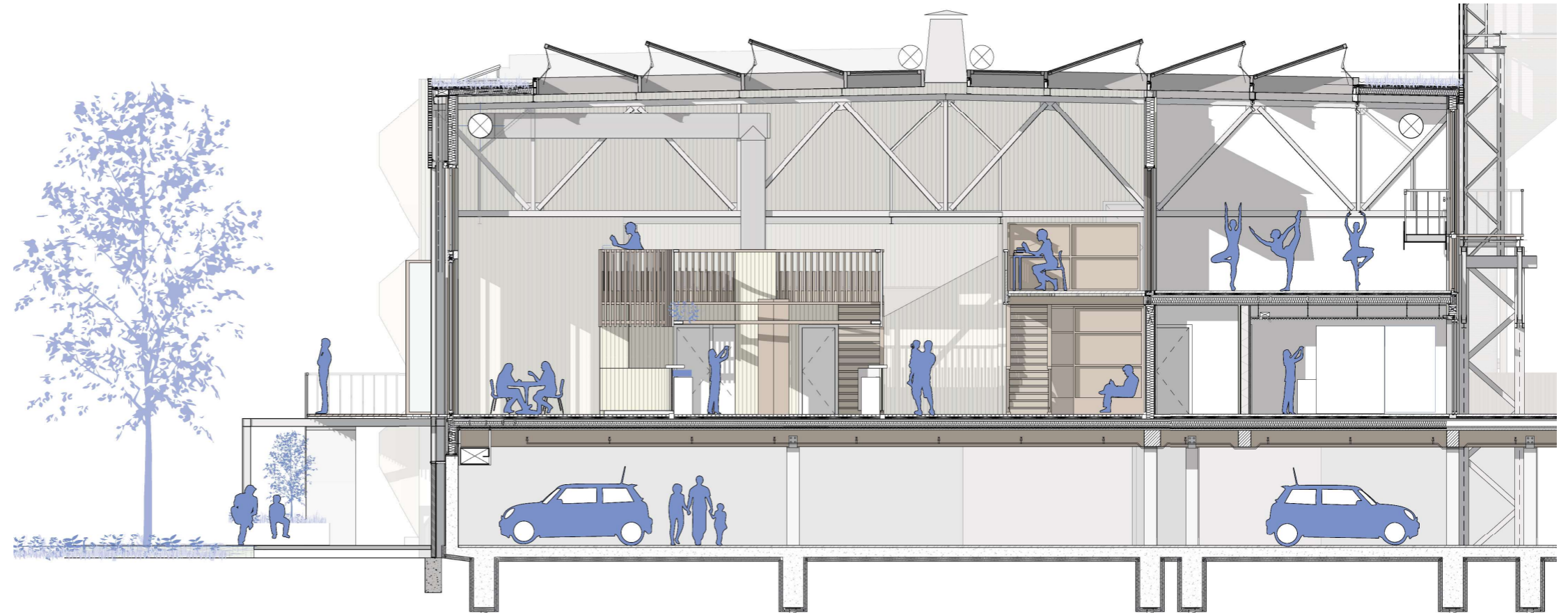
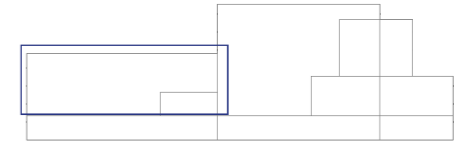
- Square

- Hoge Hal

Conclusion

Hoge & Lage Hal I Community Center

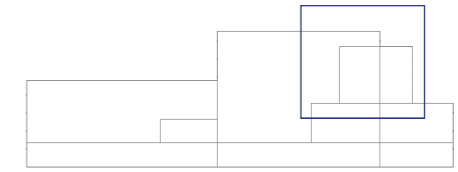
Inviting atmosphere within industrial hall



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Inviting atmosphere within industrial hall



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Conclusion



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