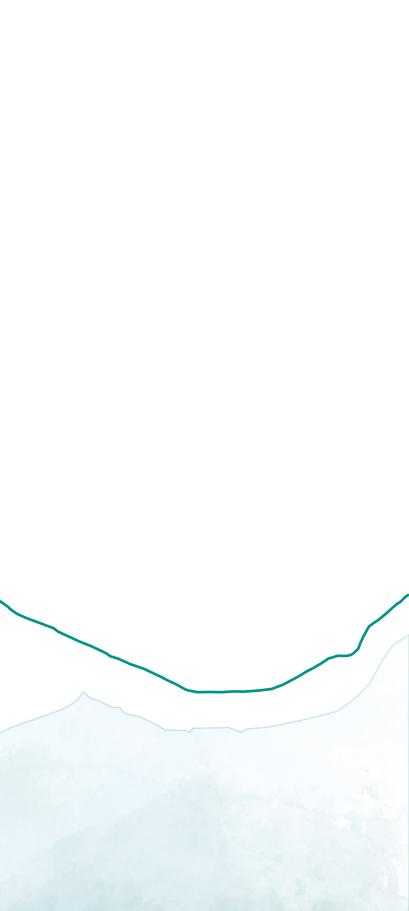
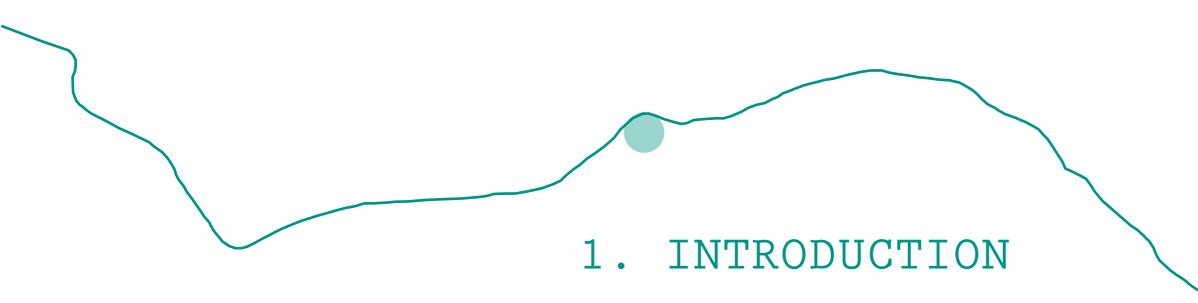
THREADING WATERS

Sari Naito | 23 June 2025 Maritime Heritage Graduation Studio



CONTENTS

- 1. Introduction
- 2. Site
- 3. Design
 - a. Site
 - b. Building
 - c. Structure
 - d. Climate
- 4. Conclusion

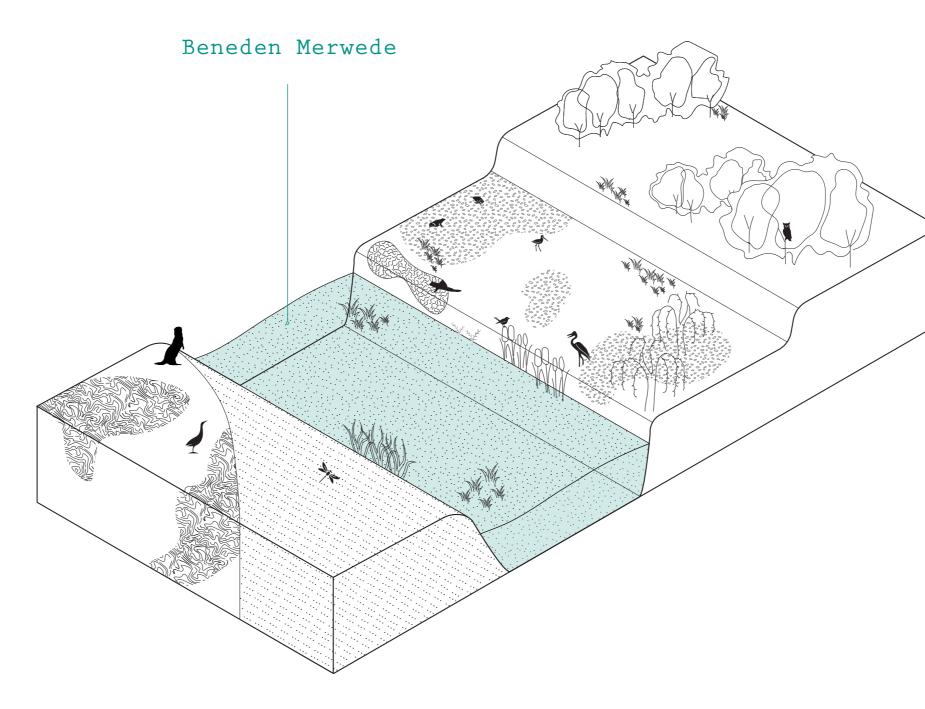




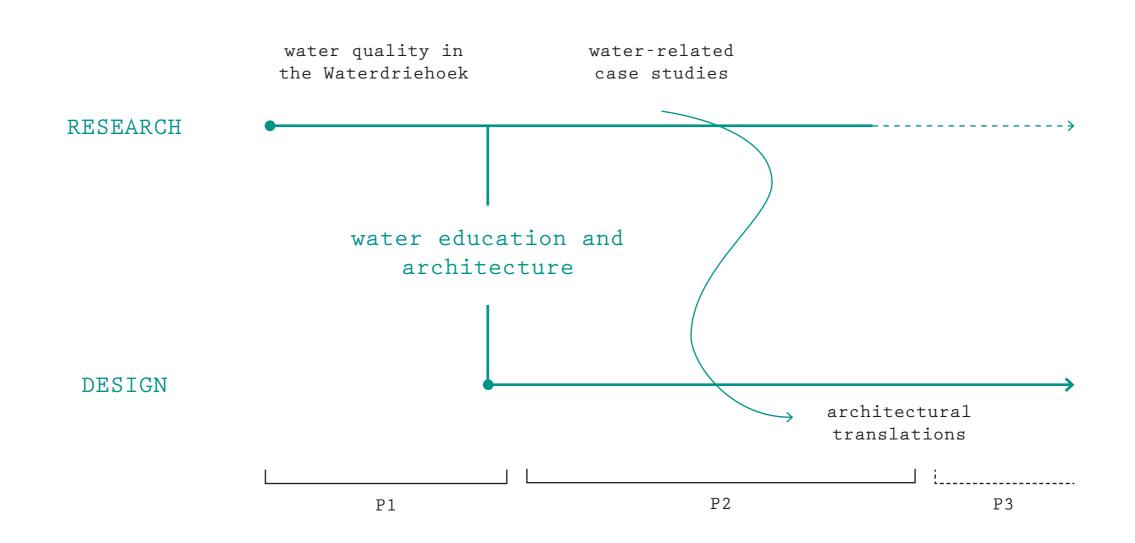


4

RESEARCH THEME







the 'Water-education nexus'

'foster key and fresh approaches to reconnect us with ancient practices and values of farsighted water management'

(Eulisse, 2023)

7

RESEARCH TO DESIGN





unesco

Intergovernmental Hydrological Programme

need for more educational activities in promoting sustainable water usage

re-establishing a connection between past values and forwardlooking goals



RESEARCH TO DESIGN

Maritime Heritage

Willemsoord Den Helder, the Netherlands New-build

Solrødgård Hillerød, Denmark



(NRIT Media, 2015)

(Willemsoord, n.d.)



(Archello, 2017)

SETTING THE SCENE

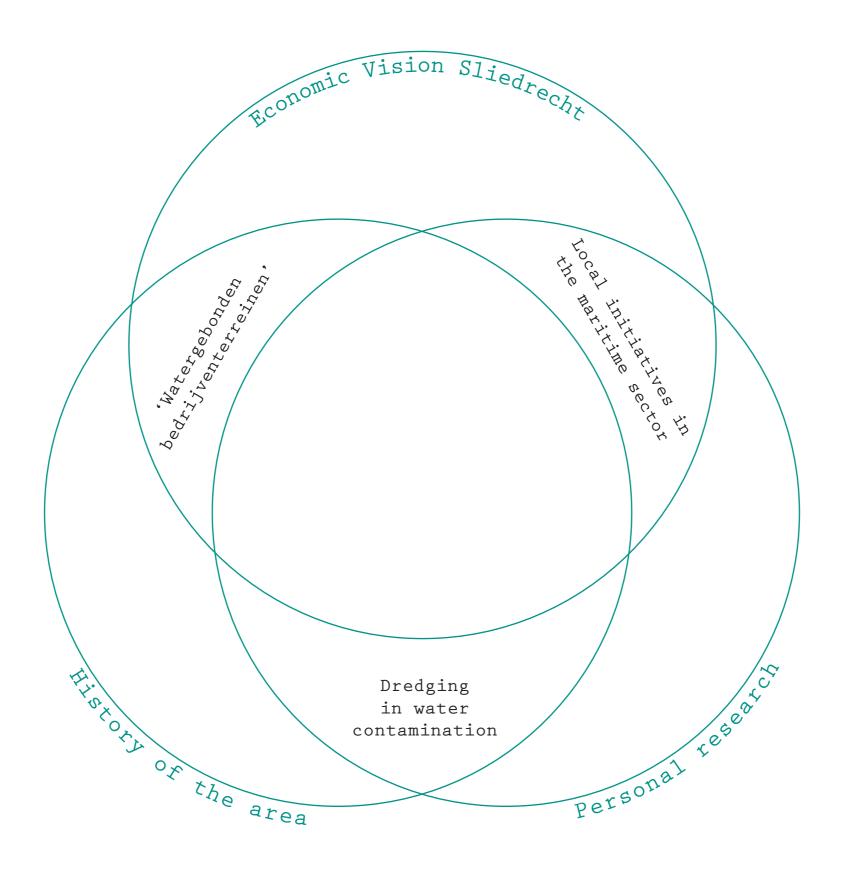
Economic Vision Sliedrecht (2021-2030)

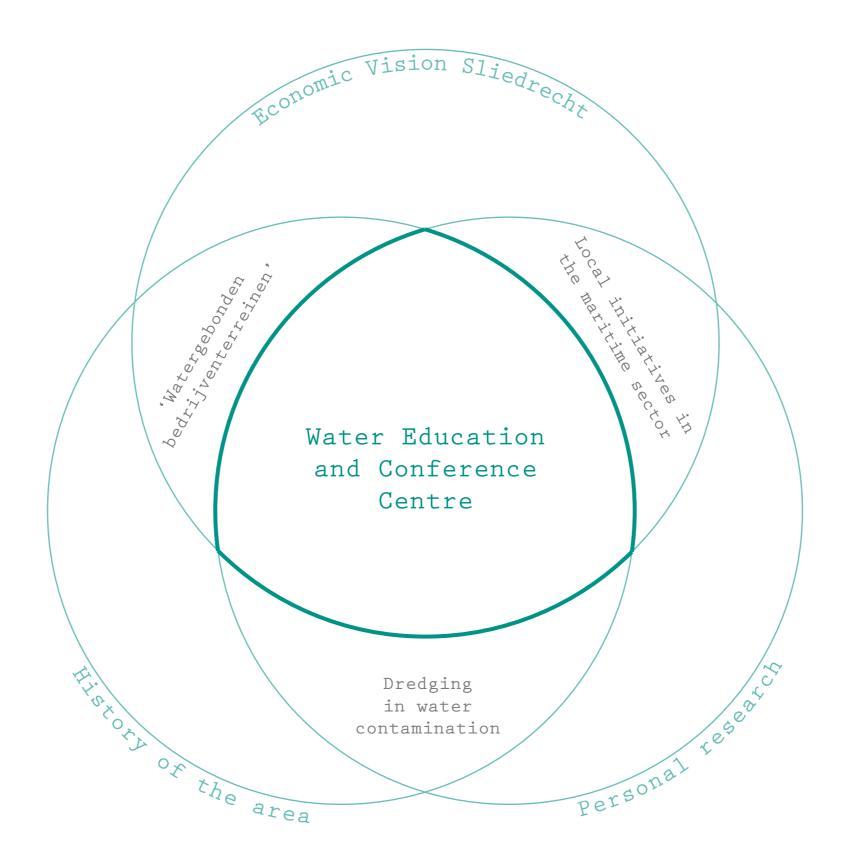
'Innovation, sustainability & digitalisation' to remain relevant economically and socially



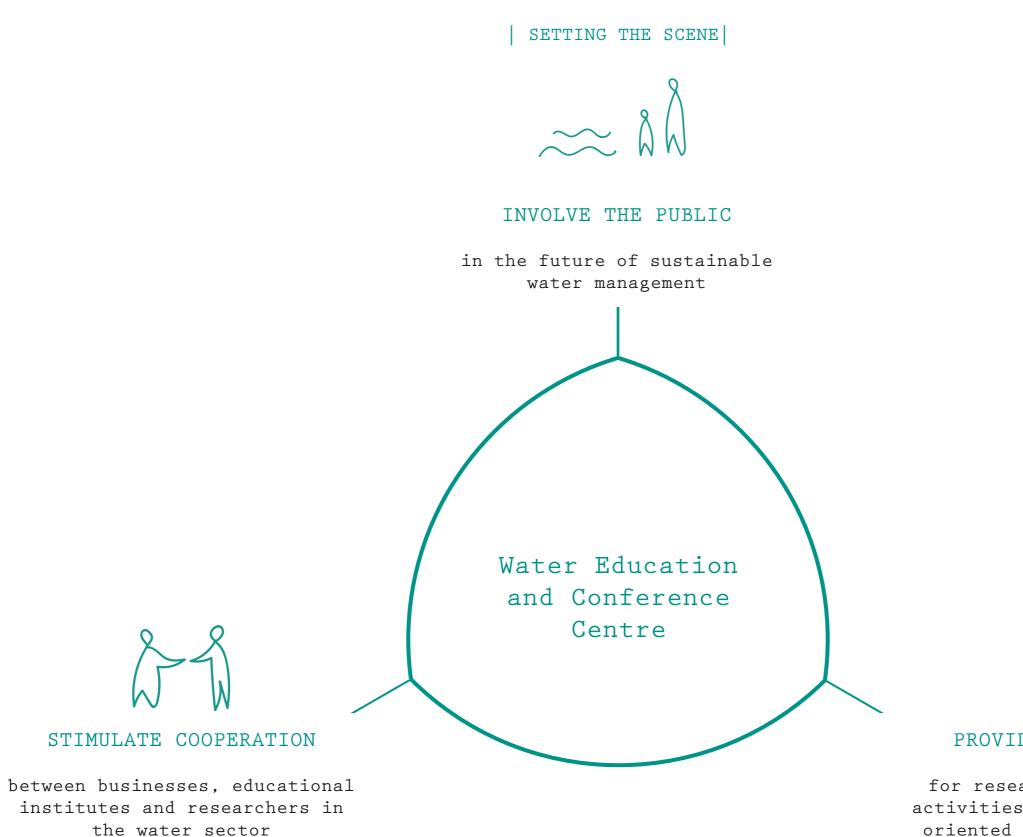
(**I**) 1 10 20 30

(Gemeente Sliedrecht, 2020)





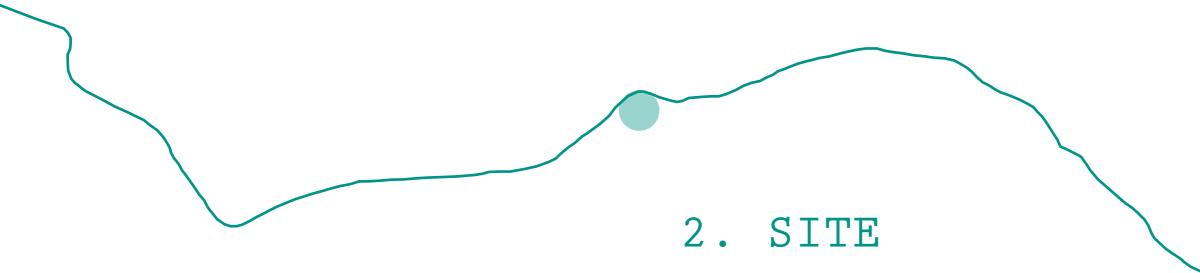
Introduction Site Design





PROVIDE FACILITIES

for research and outreach activities to ensure futureoriented water innovations





THE SITE



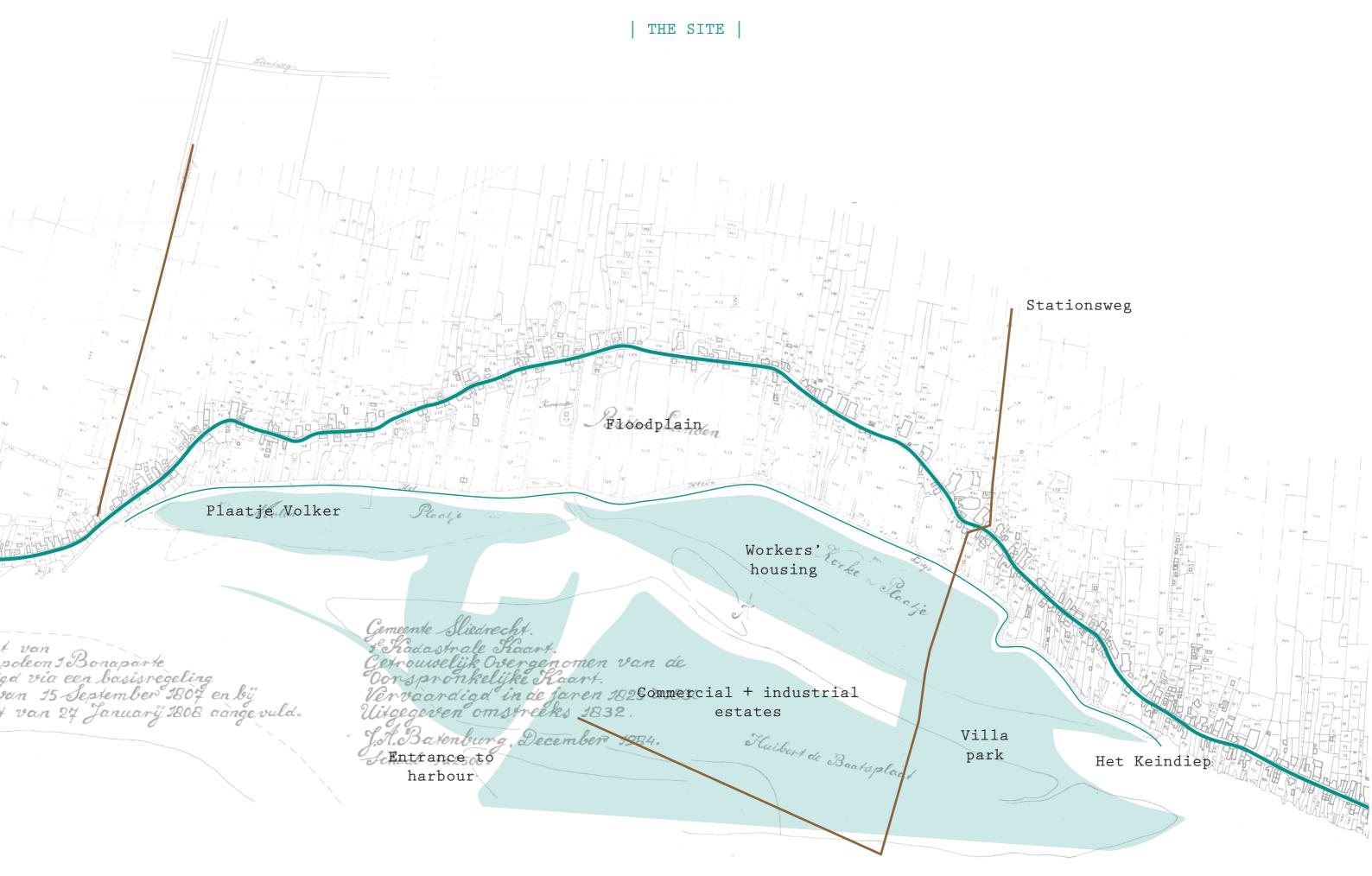
(Historie Sliedrecht, n.d.)



Map of Sliedrecht from ca. 1832 Municipality of Sliedrecht

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Site



Introduction

Site



18

Design

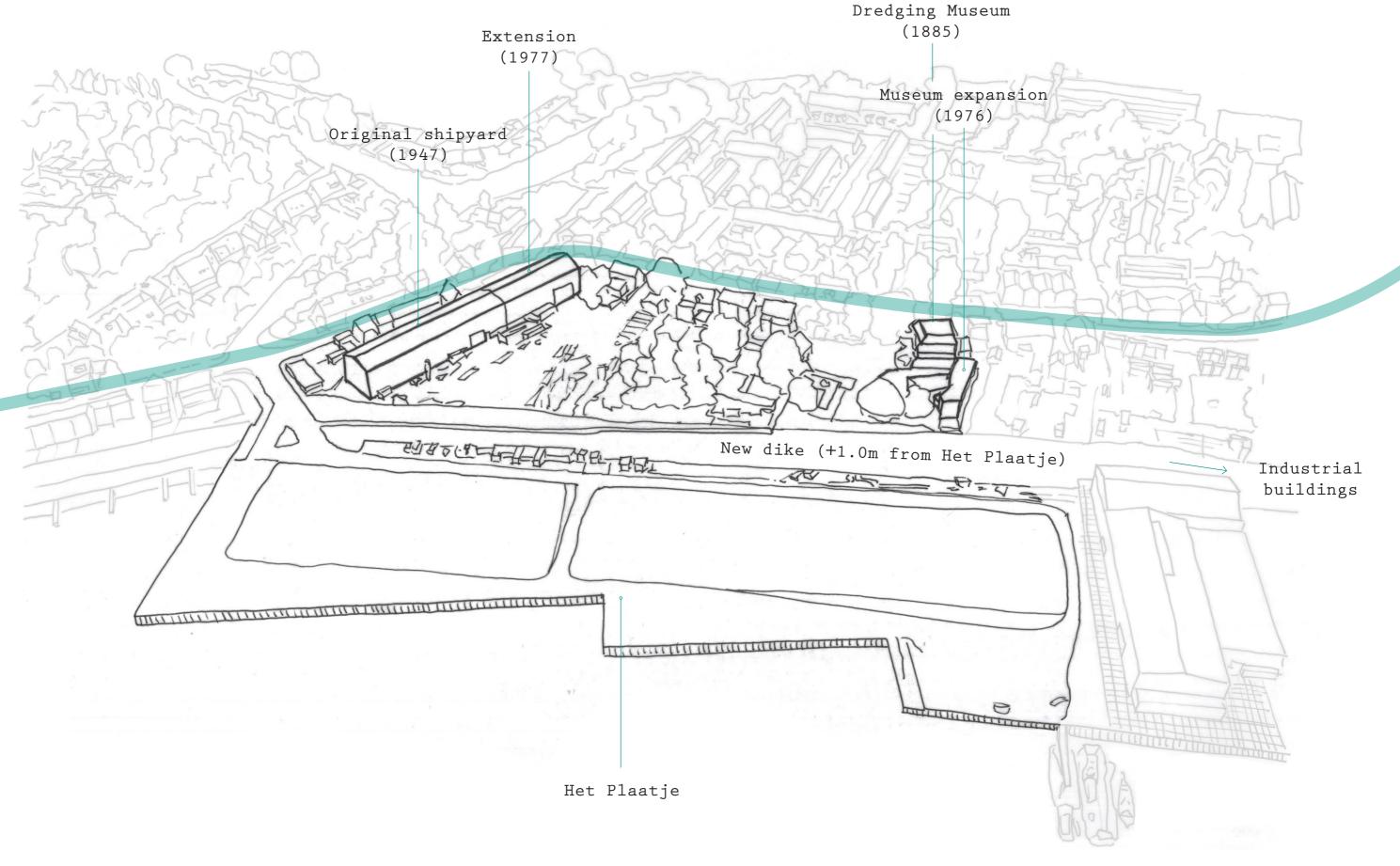


19

Site

Design

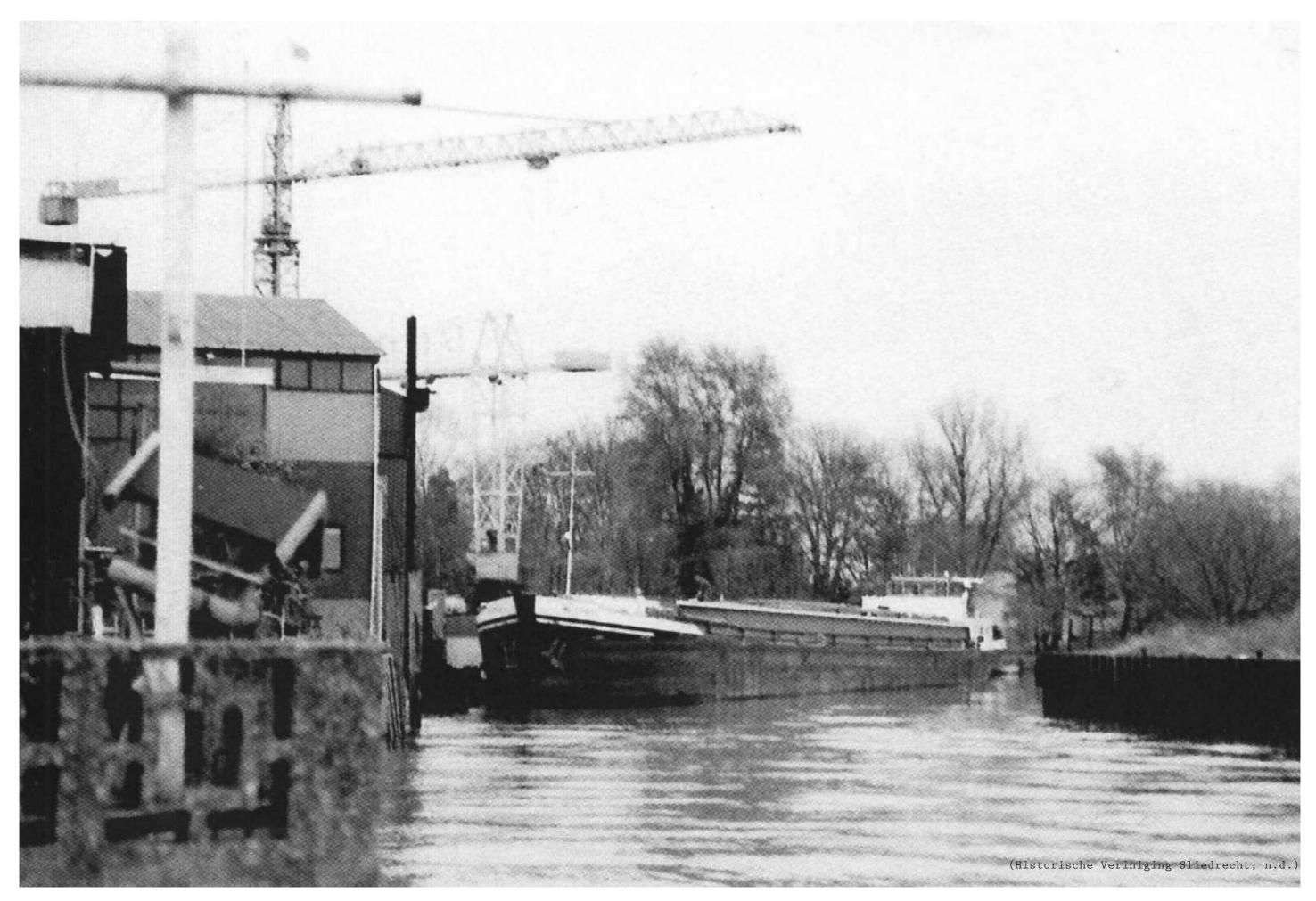
THE SITE



Introduction

Site

Design Conclusion



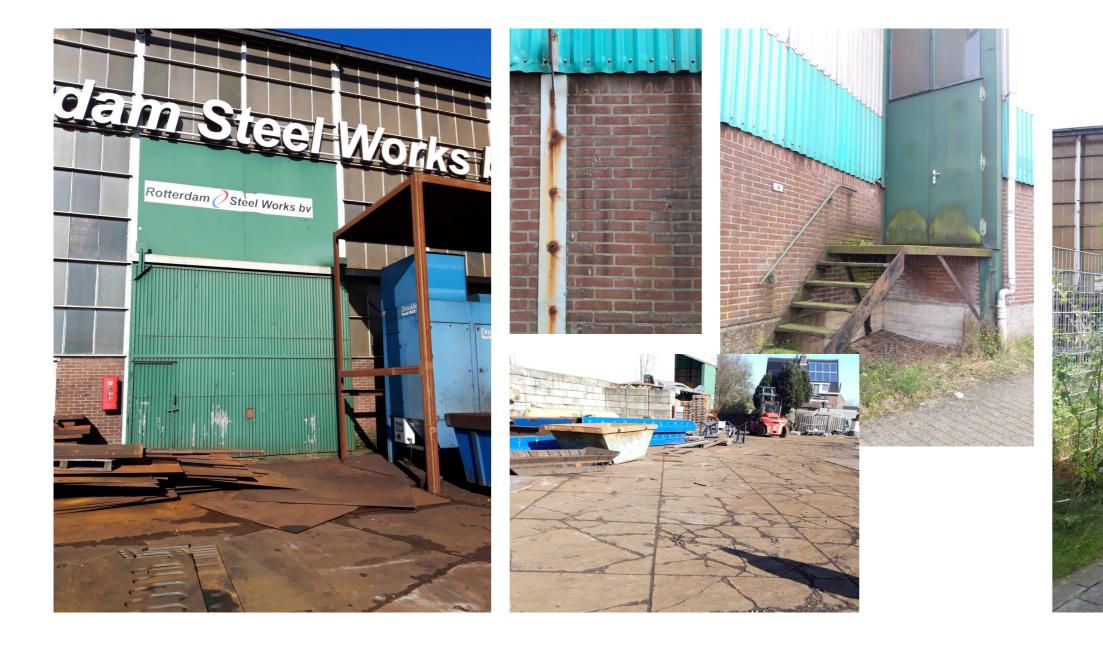
Introduction Site Design



Introduction

Site

Design





(all images by author)

Introduction

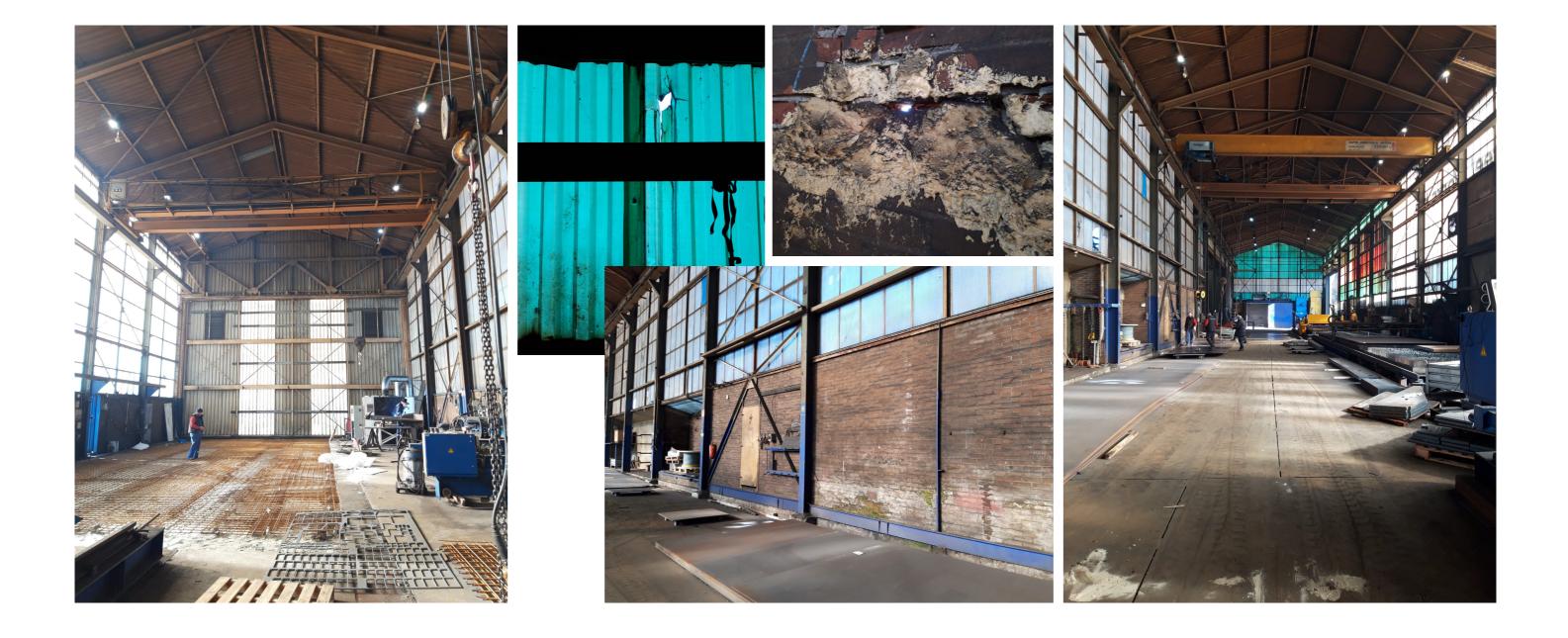
Site Design Conclusion



Introduction

Site

Design



(all images by author)

Site Design Conclusion

VALUE ASSESSMENT

	Values					es to keep	, Opportunities	
	AGE	HISTORICAL	INTENTIONAL COMMEMORATIVE	NON-INTENTIONAL COMMEMORATIVE	USE	NEWNESS	ART	RARITY
SURROUNDINGS								
SITE								
SKIN								
STRUCTURE								
SURFACE PLAN								
SERVICES								
STUFF								
SPIRIT								

Values to keep

VALUES TO KEEP

Maritime history + connection to water

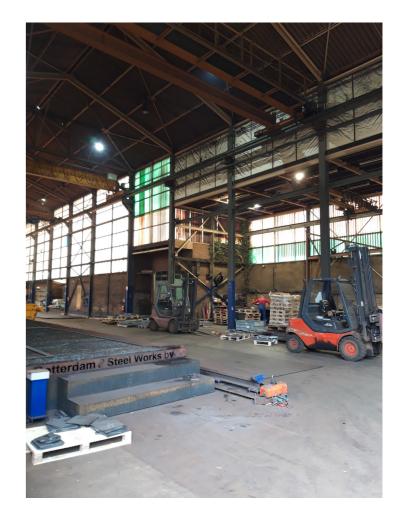


(Historische Veriniging Sliedrecht, n.d.)

Mismatched character of residential and industry



(Historie Fotoarchief Sliedrecht, 1960-70)



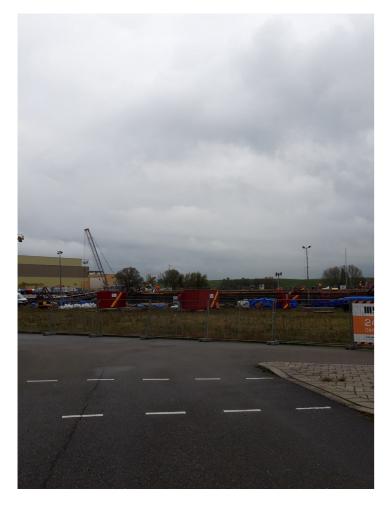
Existing maritime structures

(by author)

Site

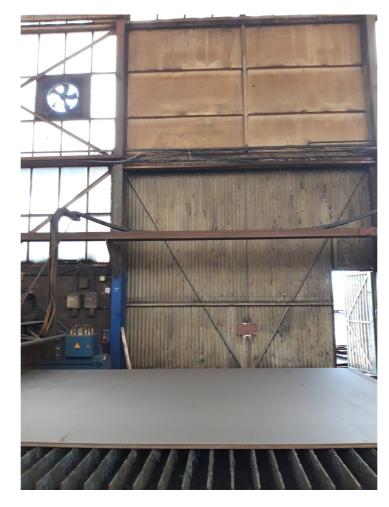
OPPORTUNITIES

Public use of Het Plaatje



(by author)

Improve climate technology + efficiency

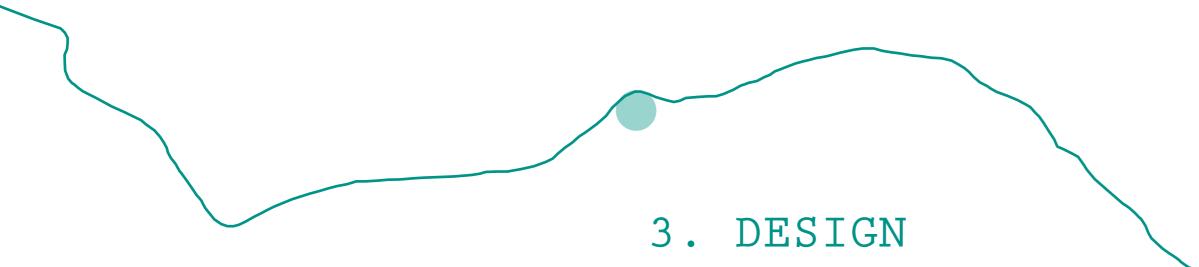




(by author)

Restore + enhance water connections

Site





PROJECT GOAL



30

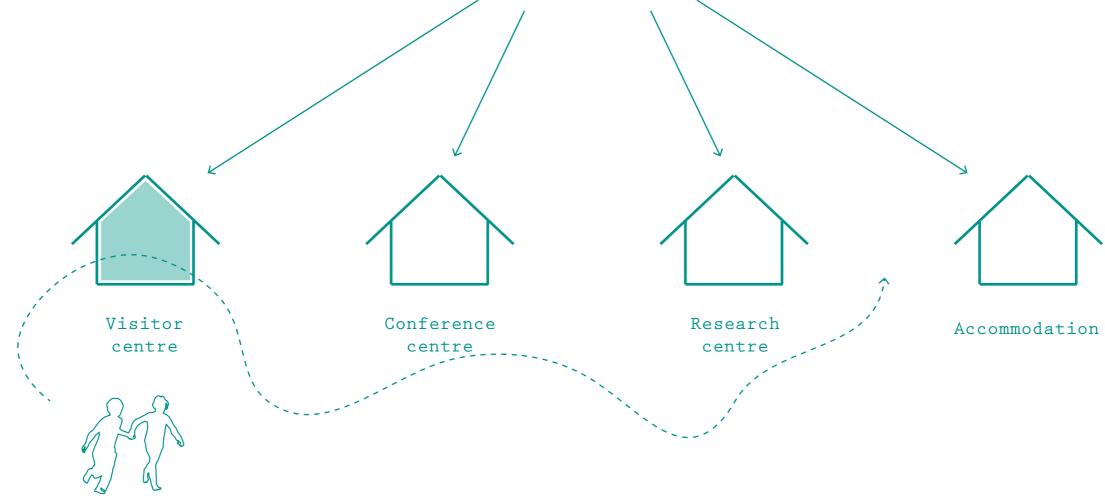


PROGRAMME

Water conference organisation



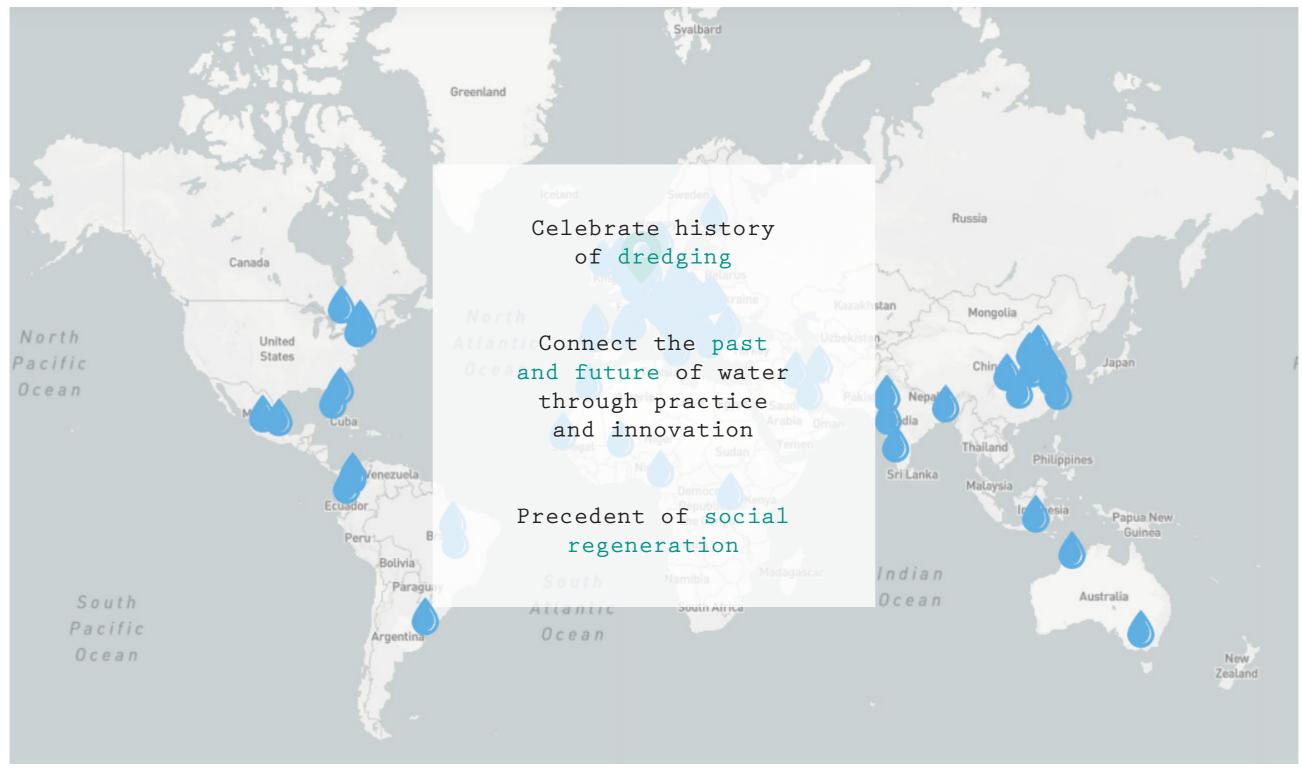




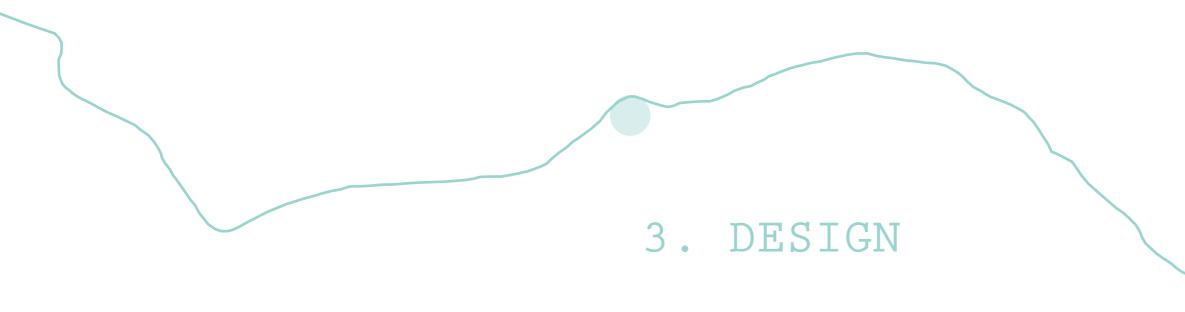
Design



(Global Network of Water Museums, 2025)



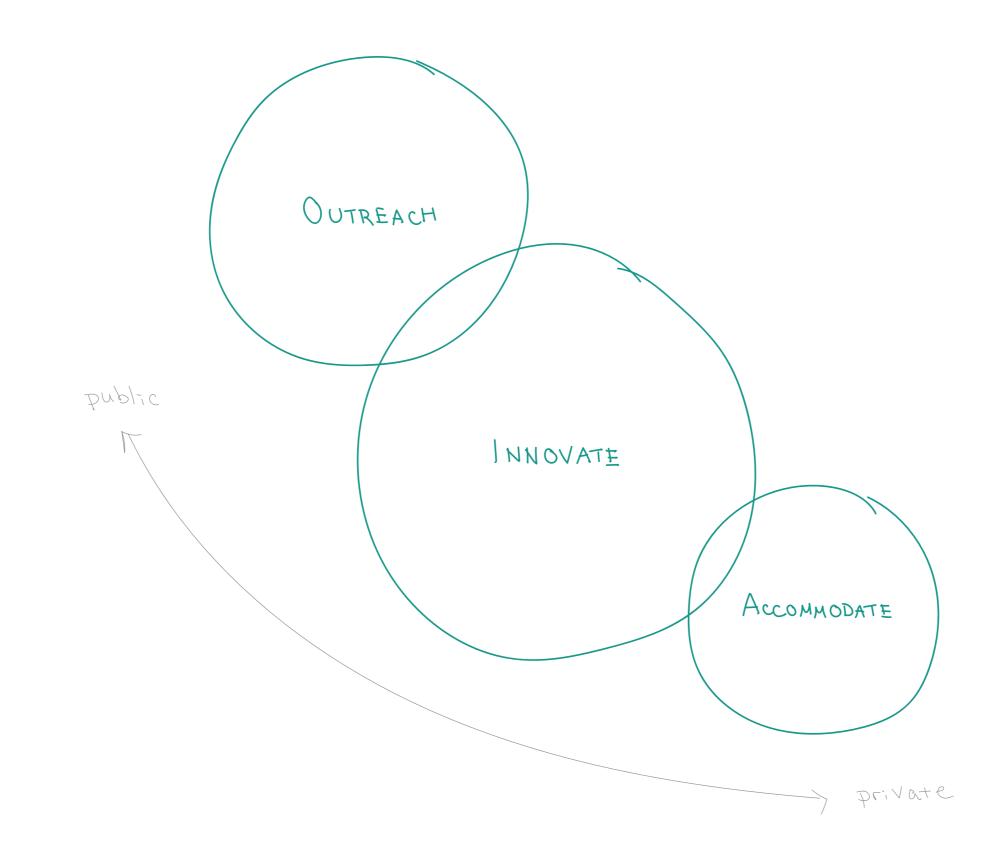
(Global Network of Water Museums, 2025)



3.1 site design



PROGRAMME





NS section

Outreach Centre (Van Eijk shipyard)

Conference Centre

Research Centre

Accommodation

Sari Naito | P5 presentation

50

100 m

EW section

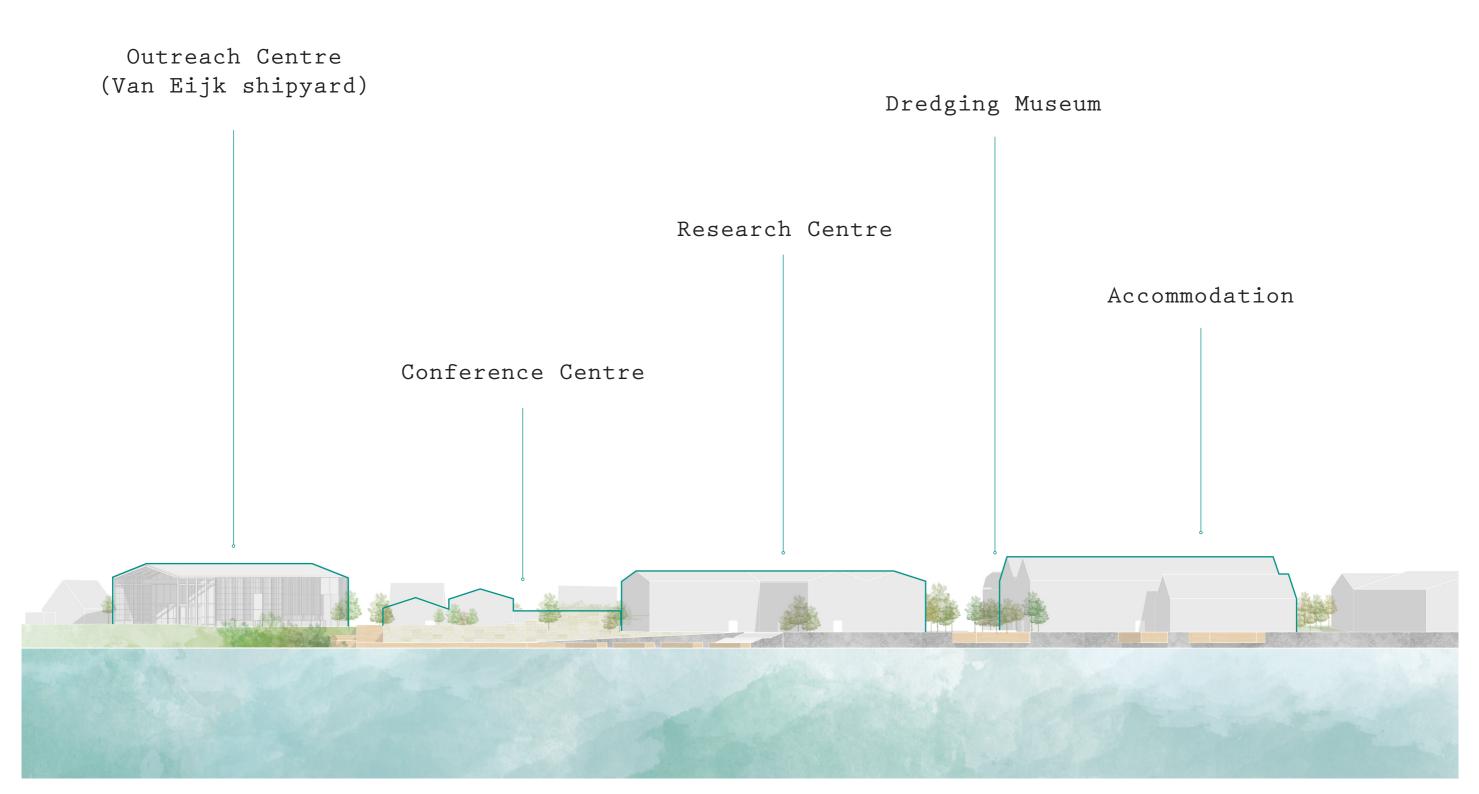
Г

0 12.5 25





BUILT CONNECTIONS



Introduction Site

Design

Conclusion



Introduction

Site

Design

Conclusion

LANDSCAPING









Solrødgård Hillerød, Denmark

Willemsoord Den Helder, the Netherlands





MATERIALITY





- - ->





Introduction

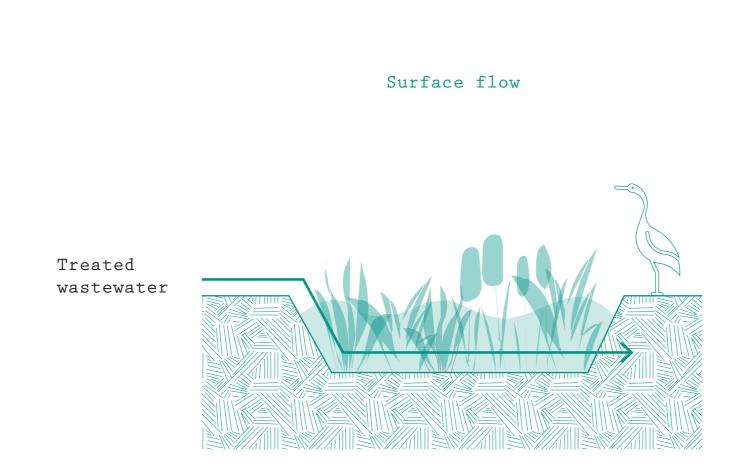
Site

Design

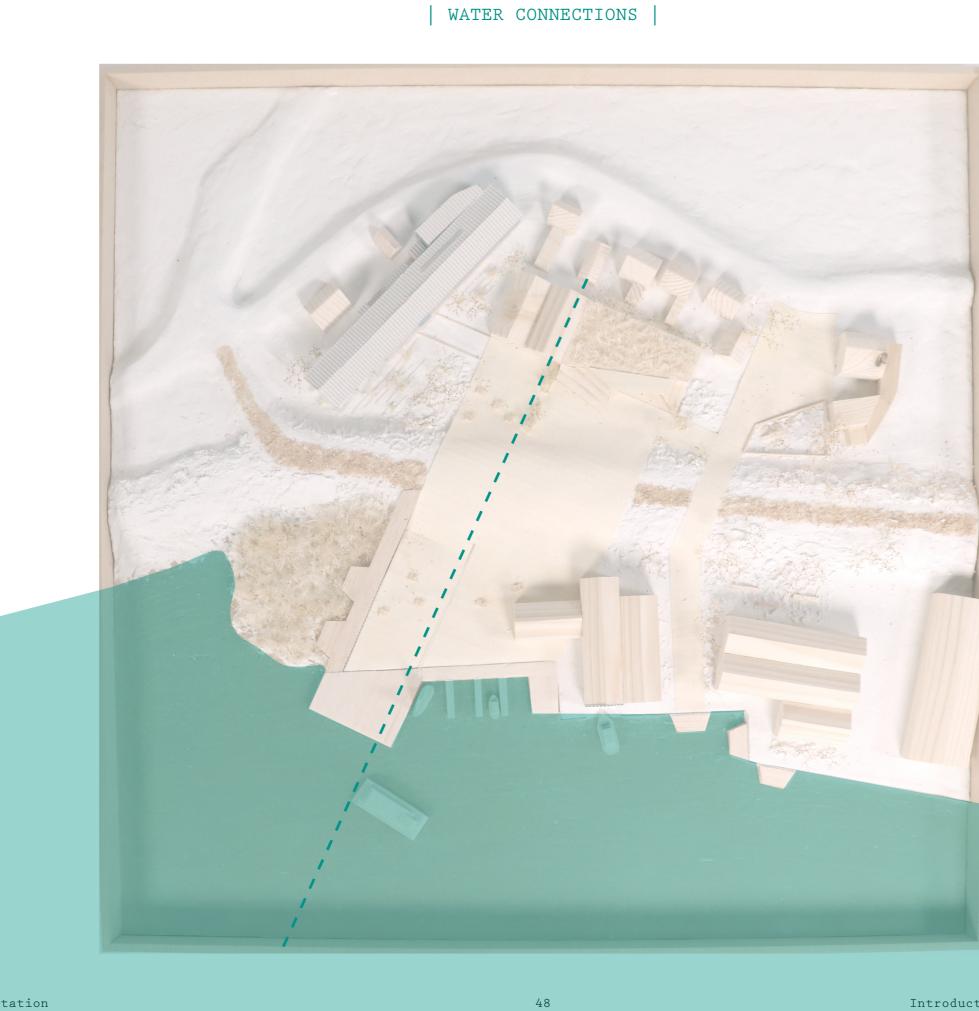
Conclusion





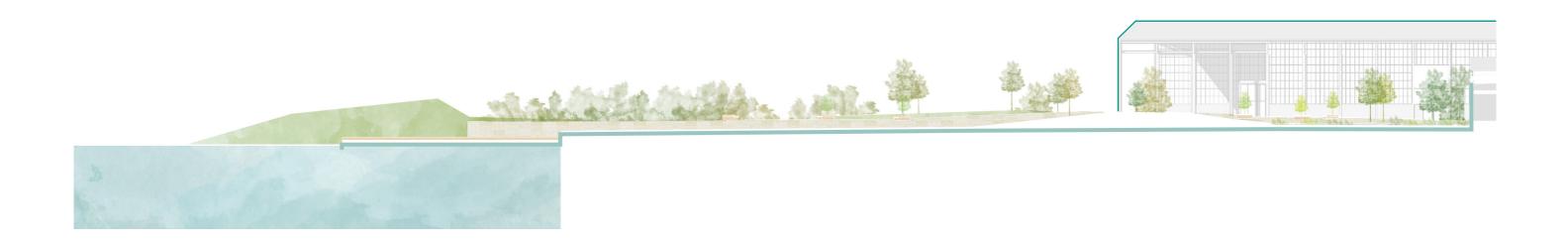


Outlet

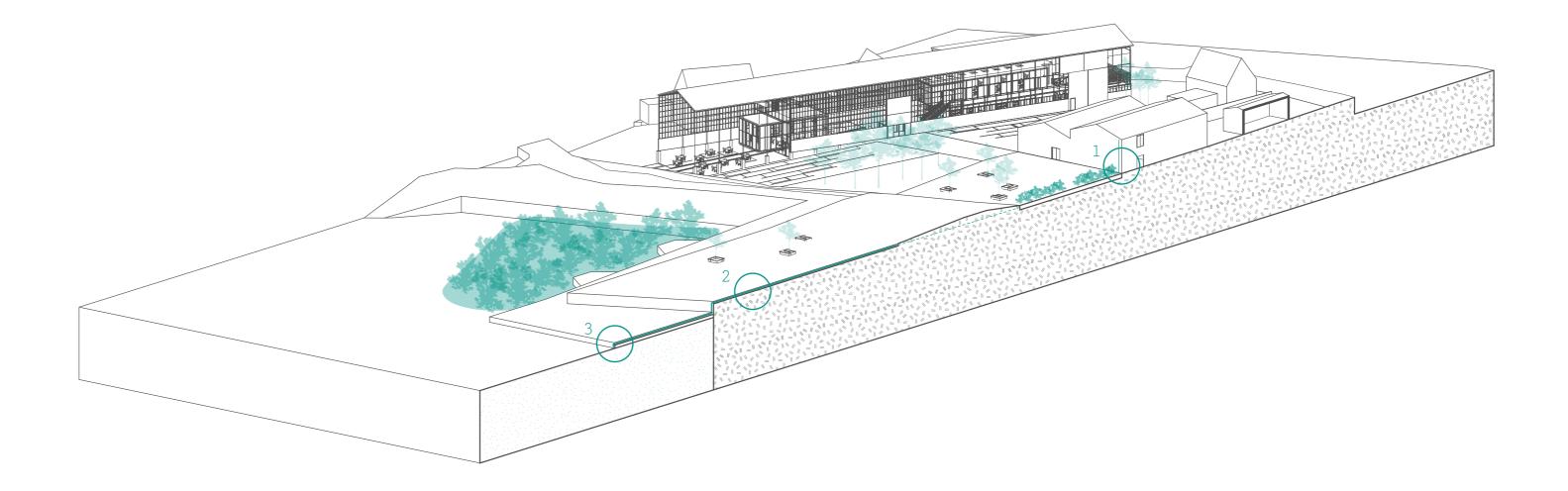




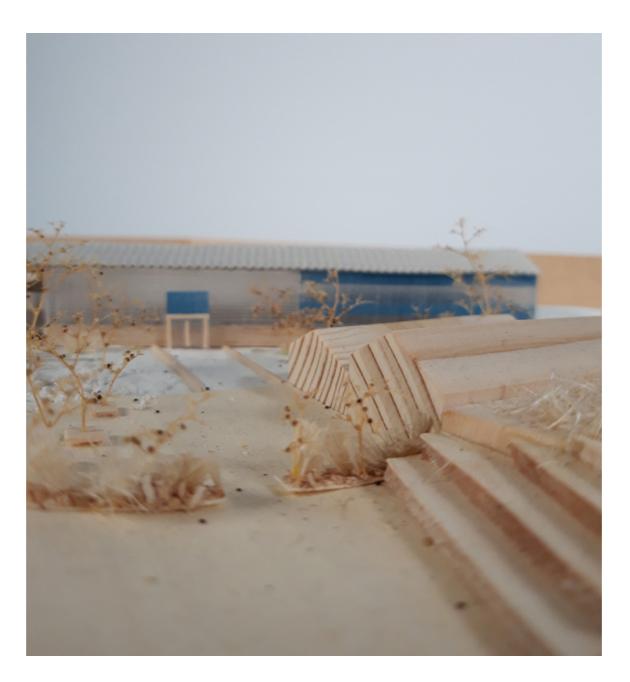
WATER CONNECTIONS



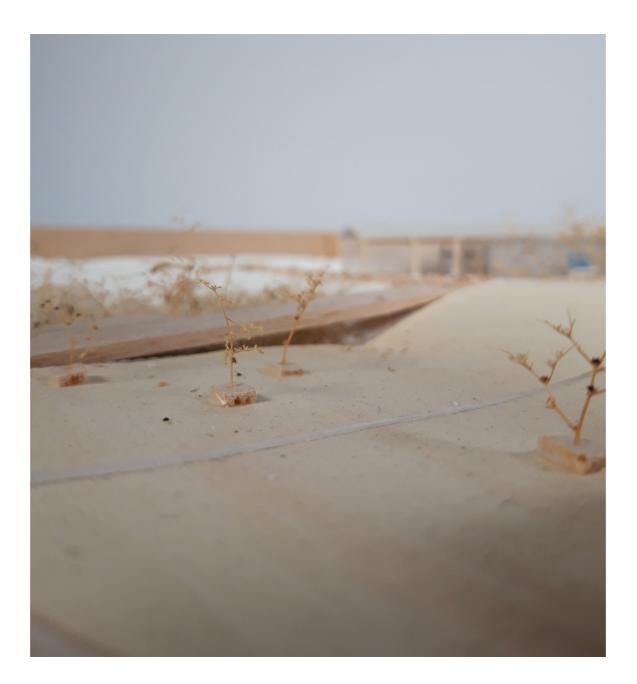
WATER CONNECTIONS



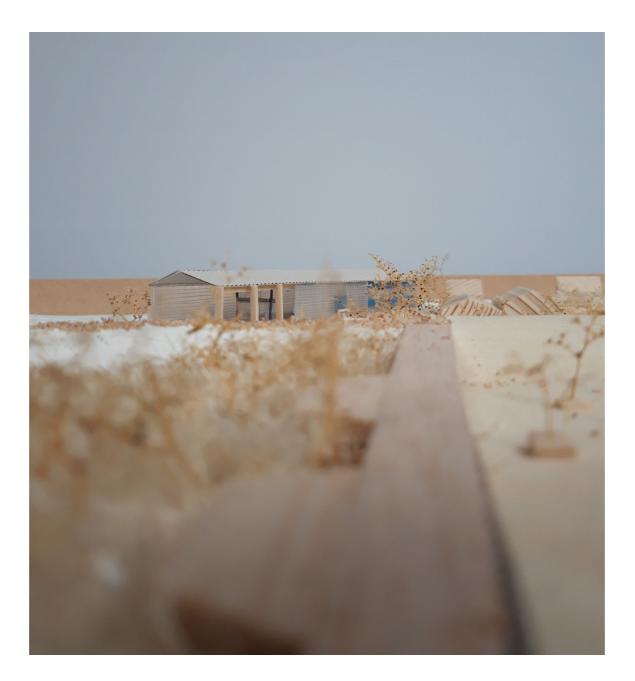
1. Bioswale



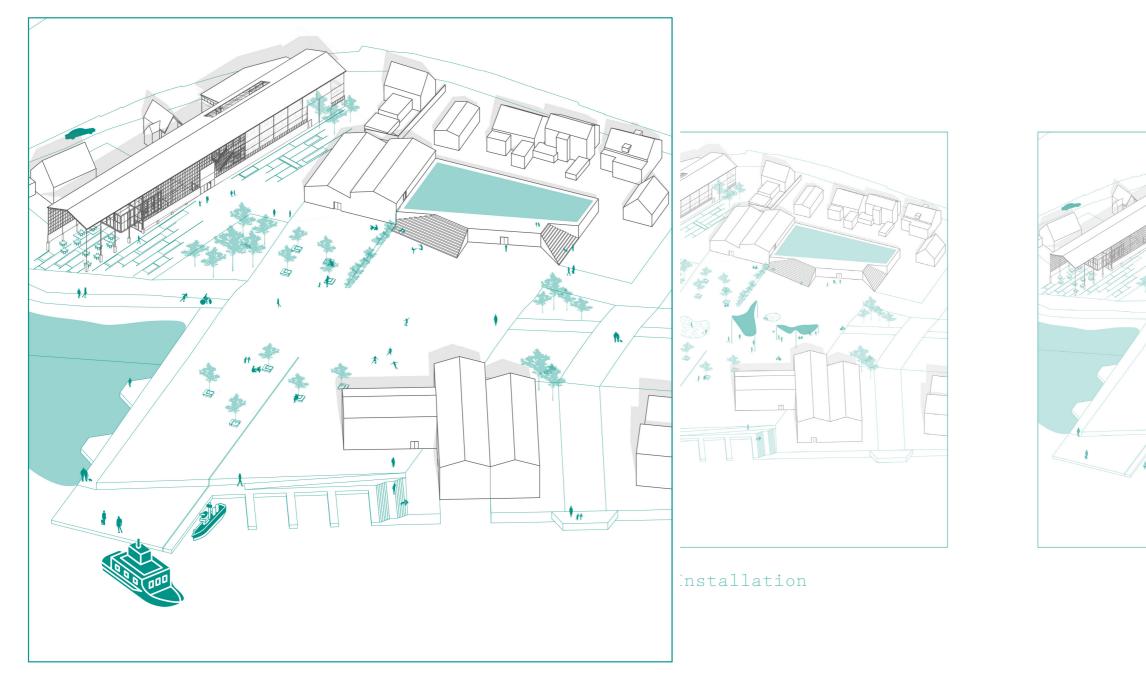
2. Water channel



3. Beneden Merwede



URBAN CONNECTIONS



Normal



Conference

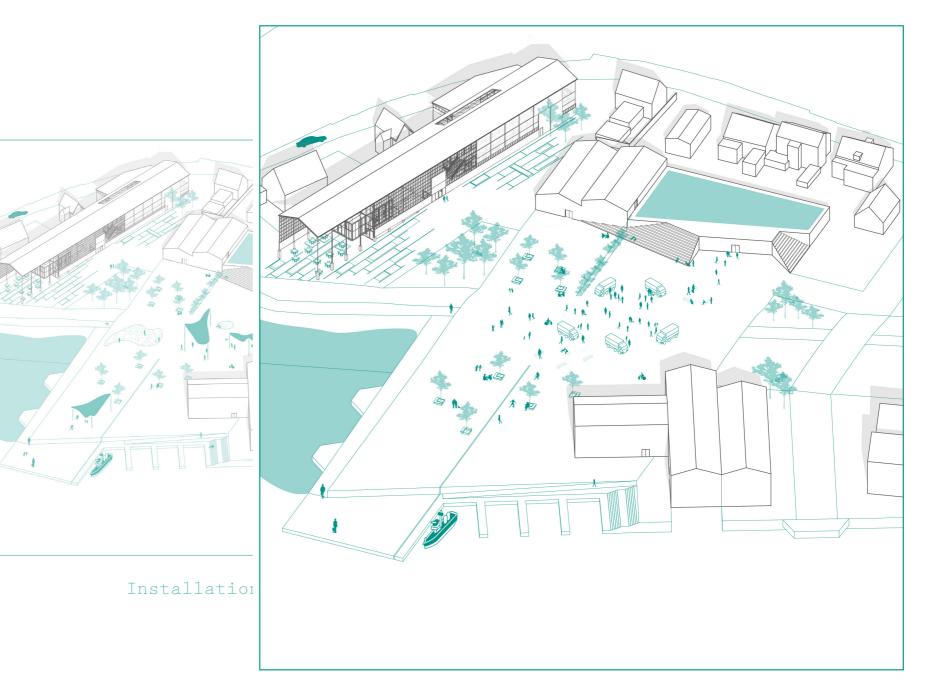
URBAN CONNECTIONS



Installation



Normal



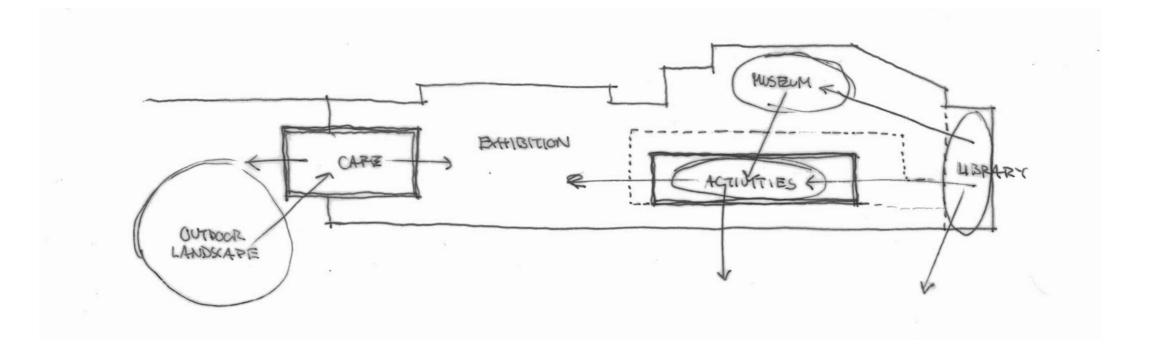




3.2 building design



SHIPYARD DESIGN



58

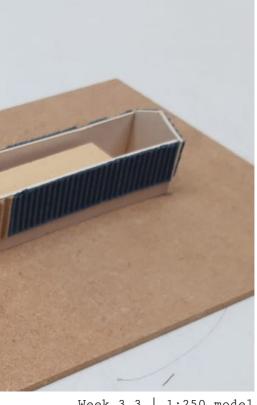
Future





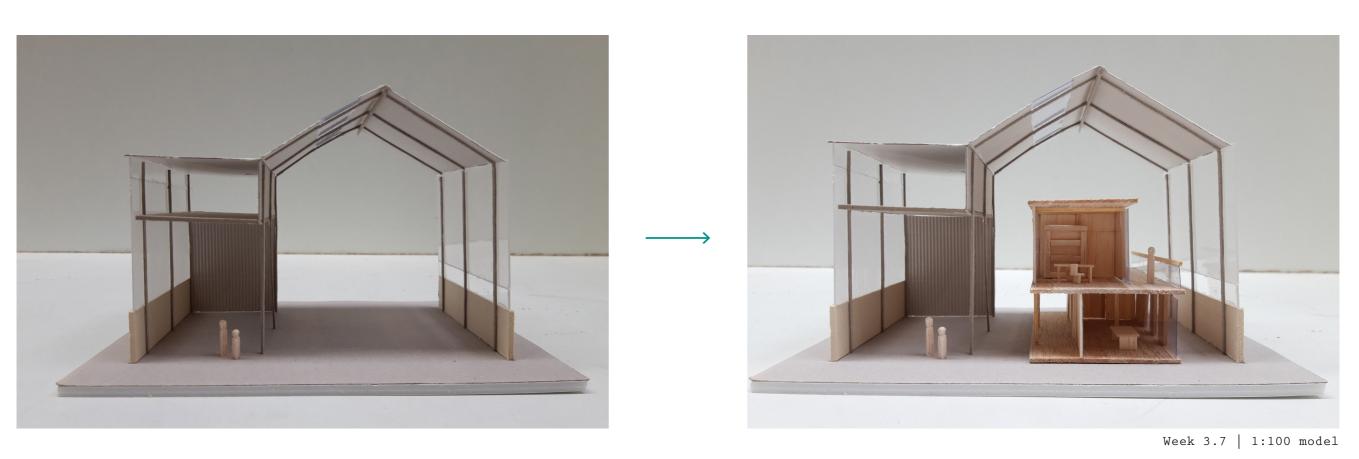
(Historische Veriniging Sliedrecht, n.d.)





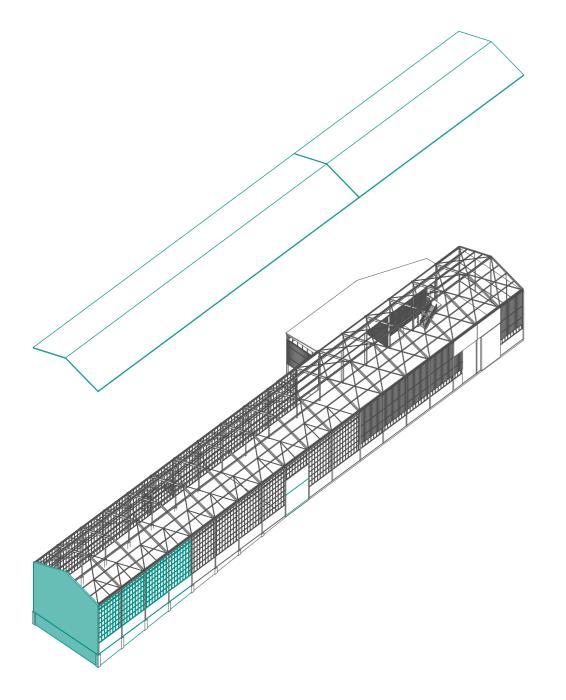
Week 3.3 | 1:250 model

Future



Past

60

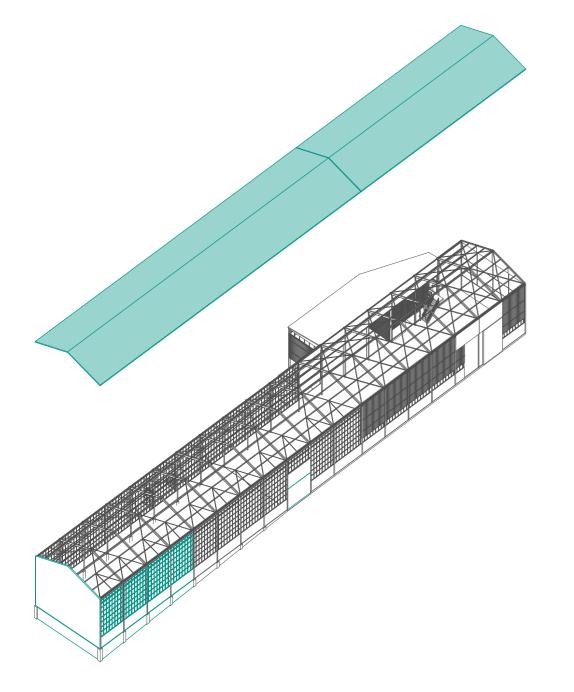


Openable door





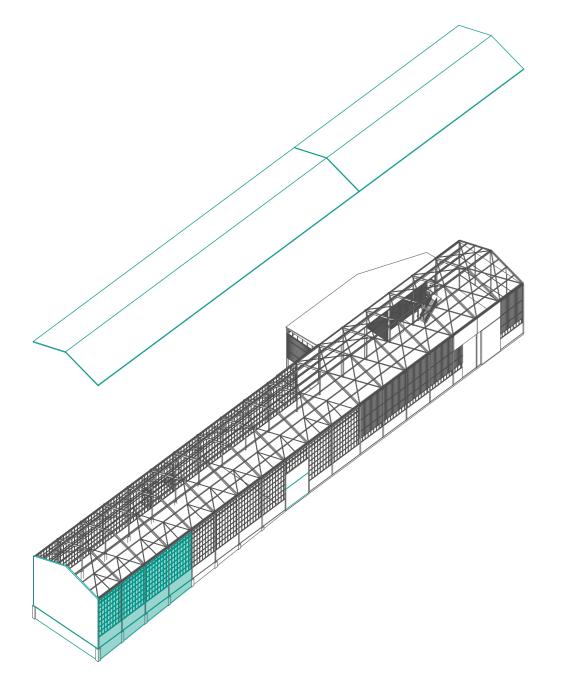




Asbestos cement roof



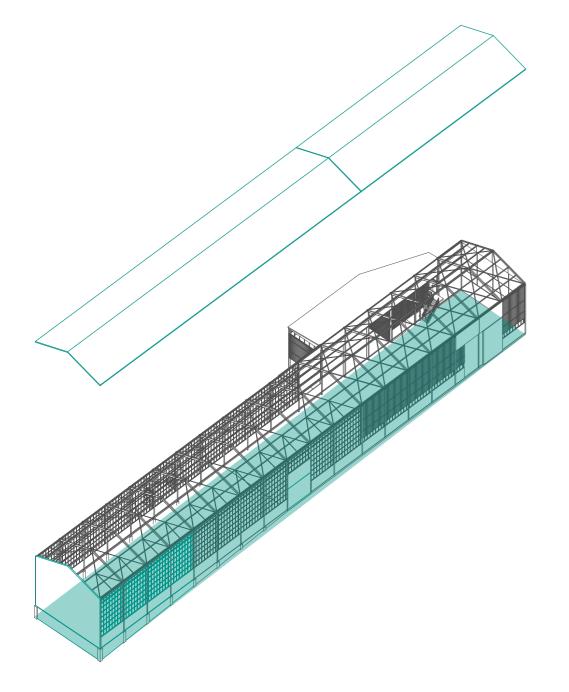




Part of facade



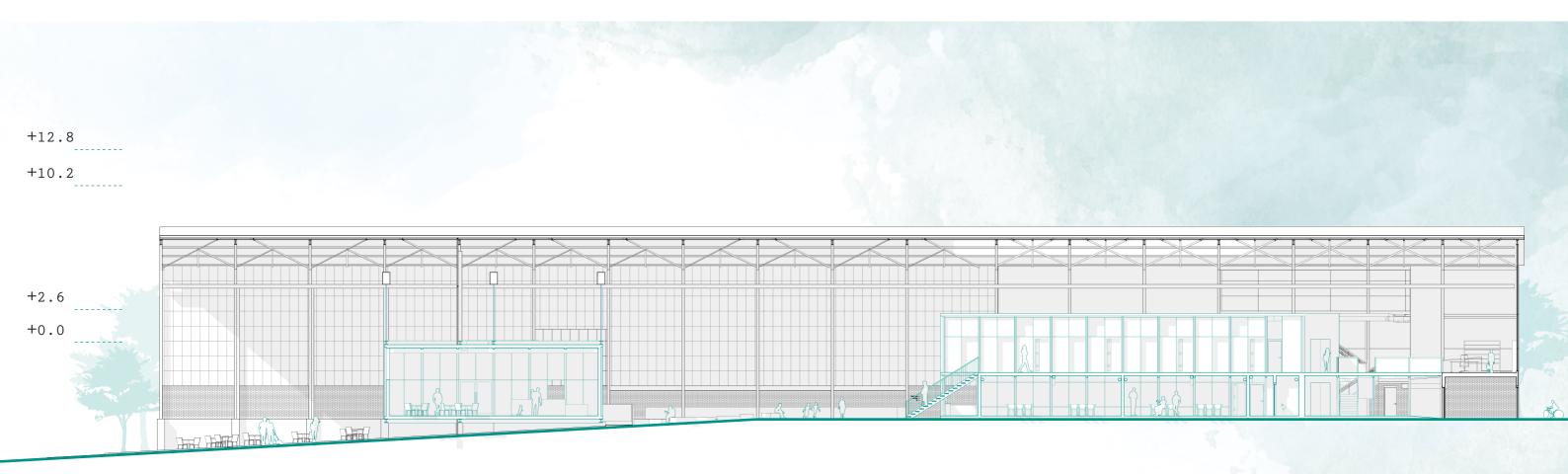


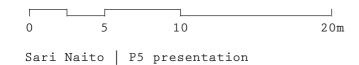


Metal floor











66

LEVEL 0

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0

2

67

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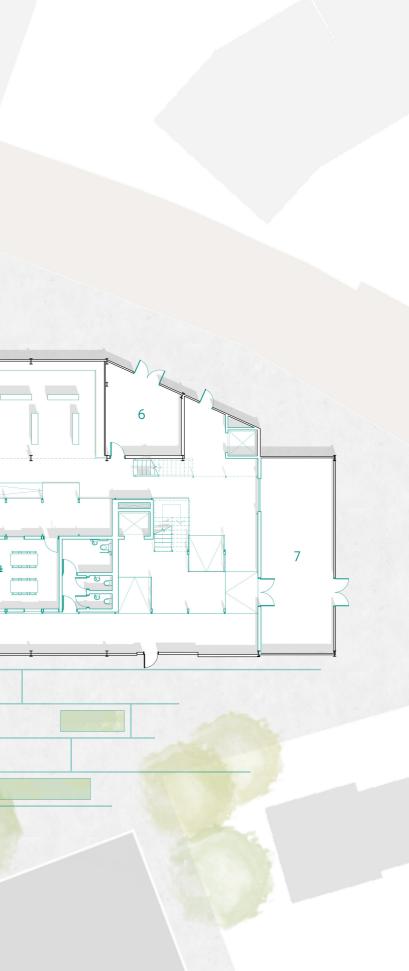
20m

- 1. Cafe
- 2. Entrance foyer/exhibition
- 3. Activity room I
- 4. Activity room II
- 5. Dredging Museum exhibit
- 6. Storage
- 7. Tech room

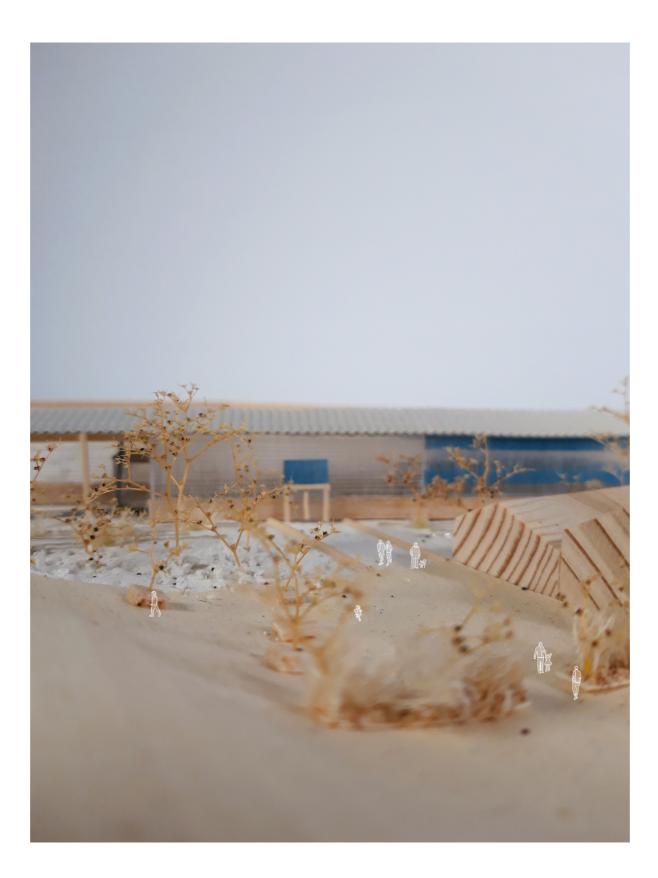
10

0

5

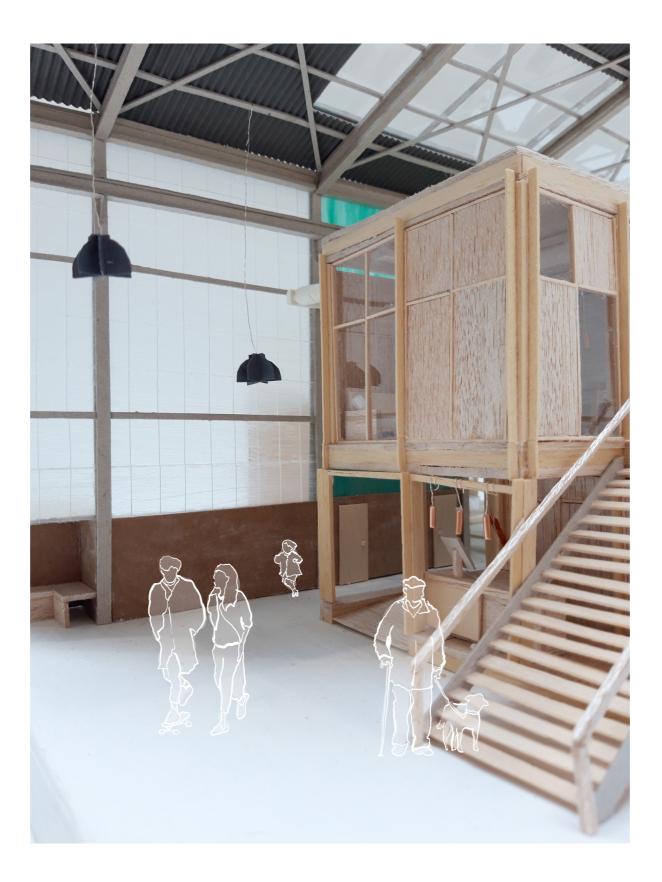






68





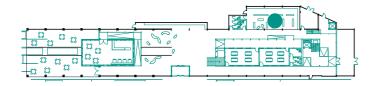






Conclusion

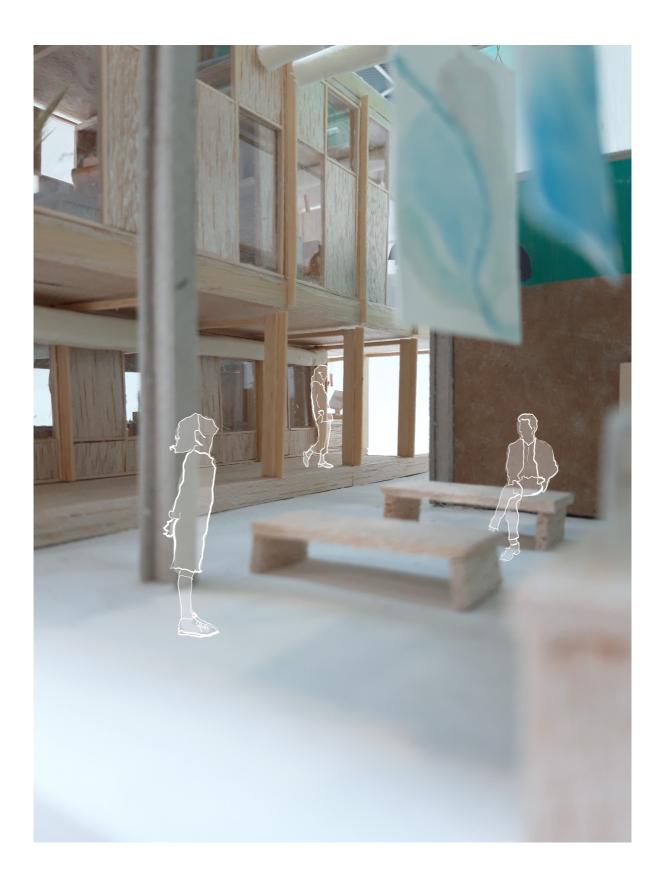


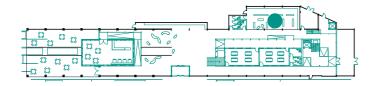






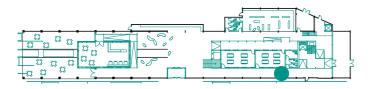
Conclusion



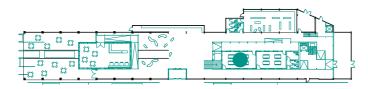


Introduction Site Design









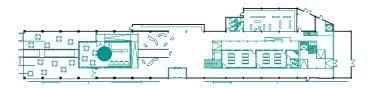
Introduction Site Design





Introduction Site Design











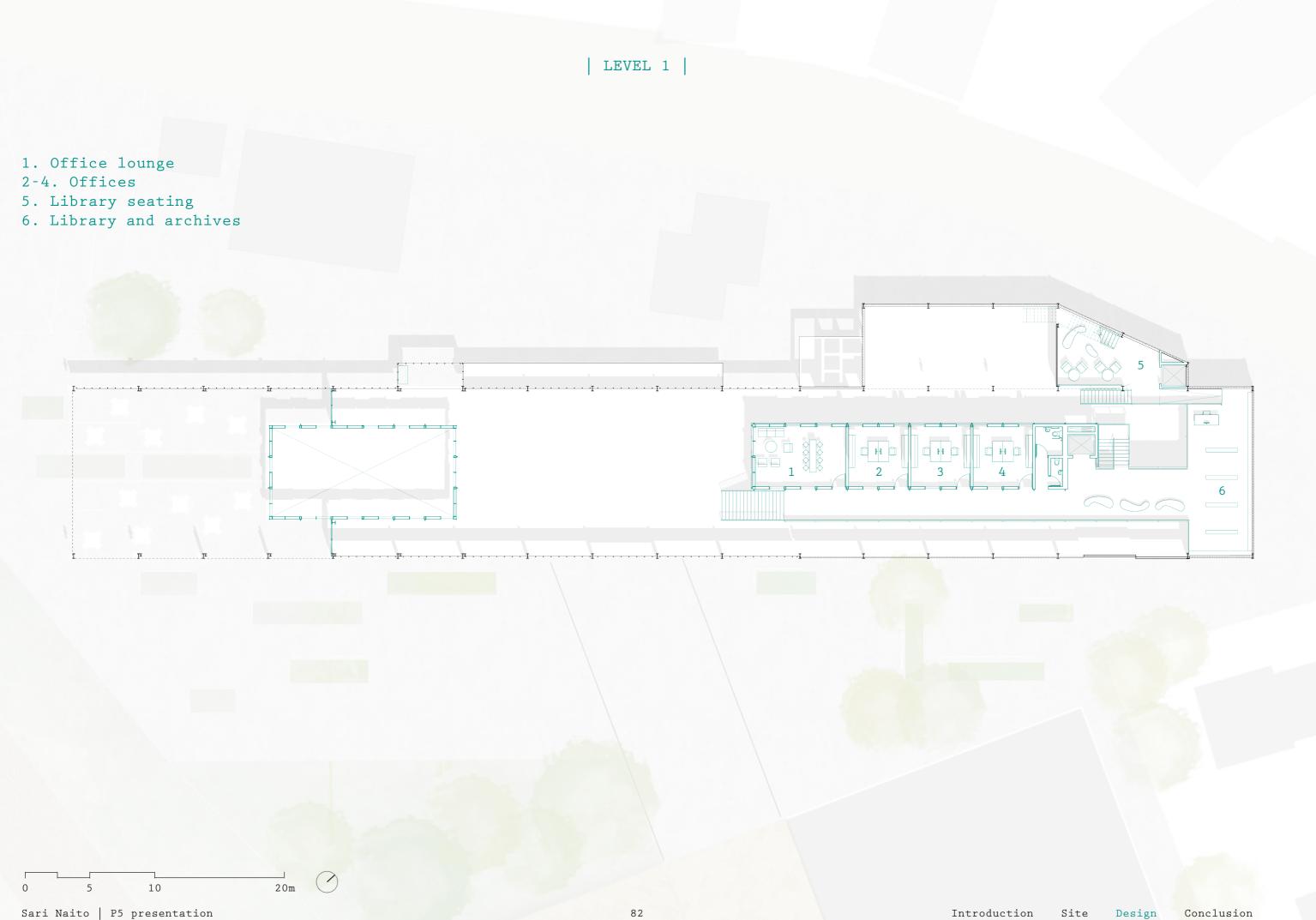


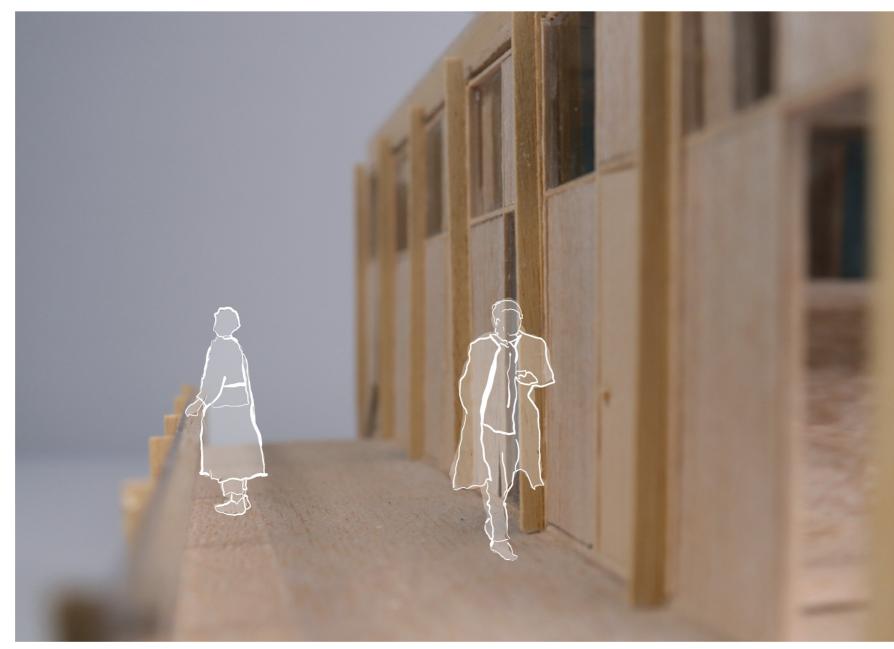


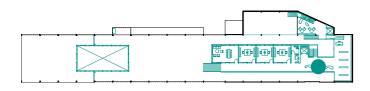












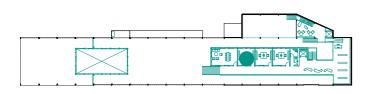


Site

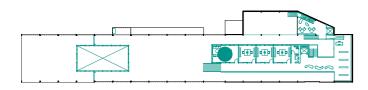
Design







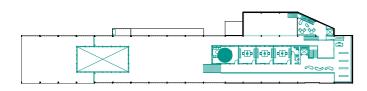




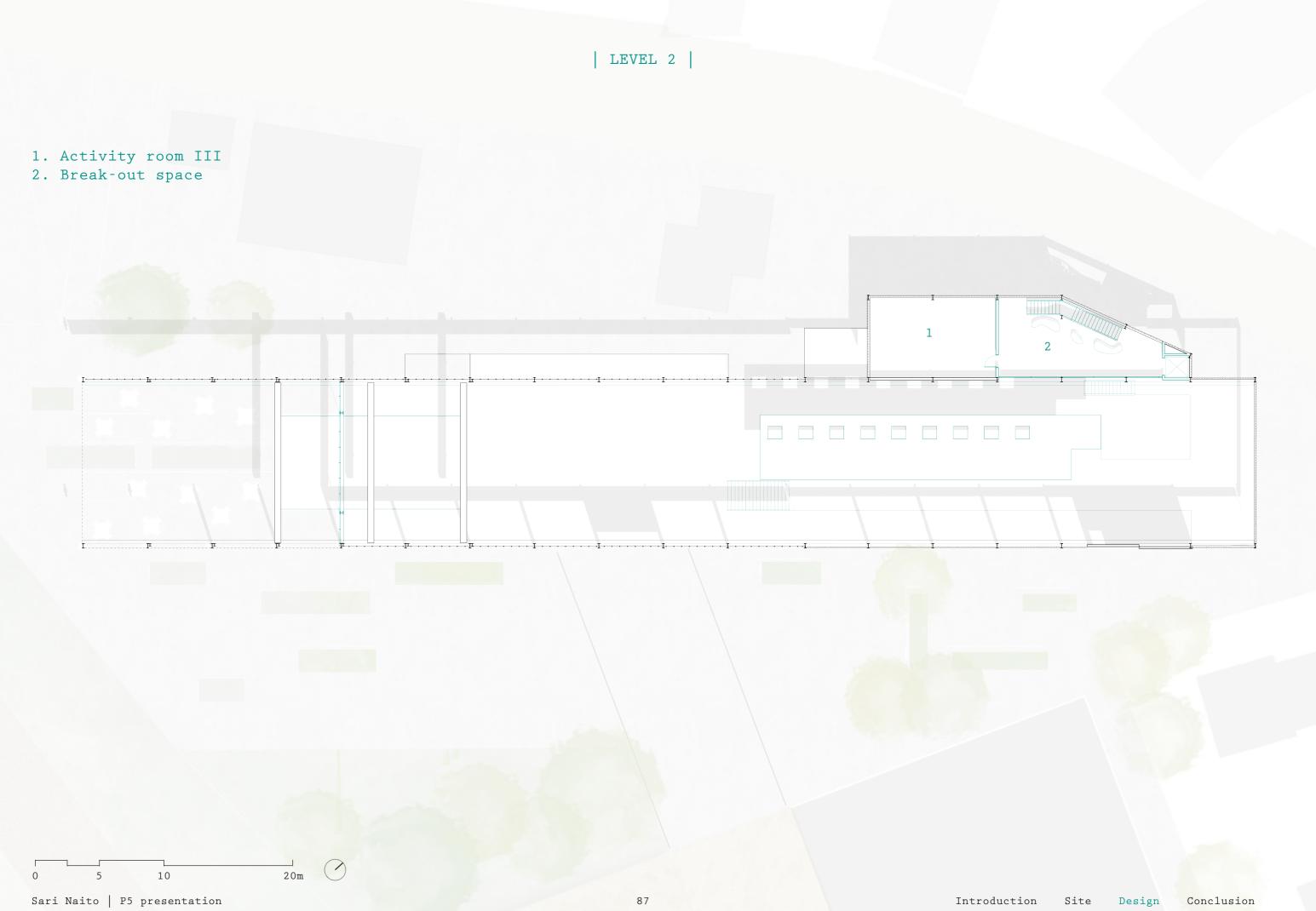
Sari Naito | P5 presentation

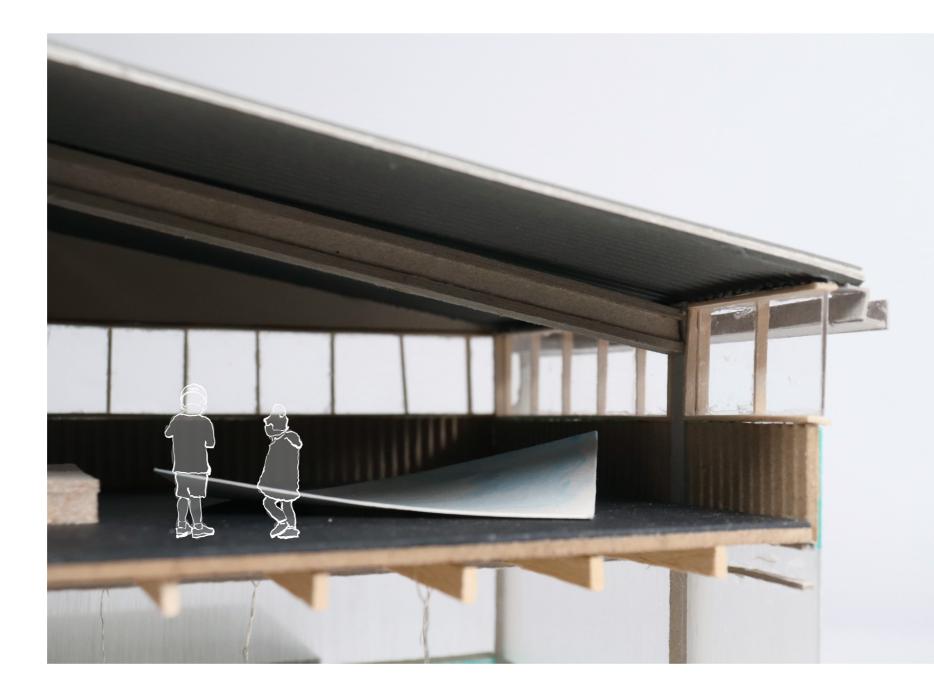


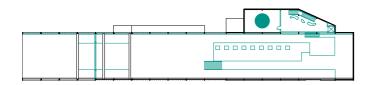








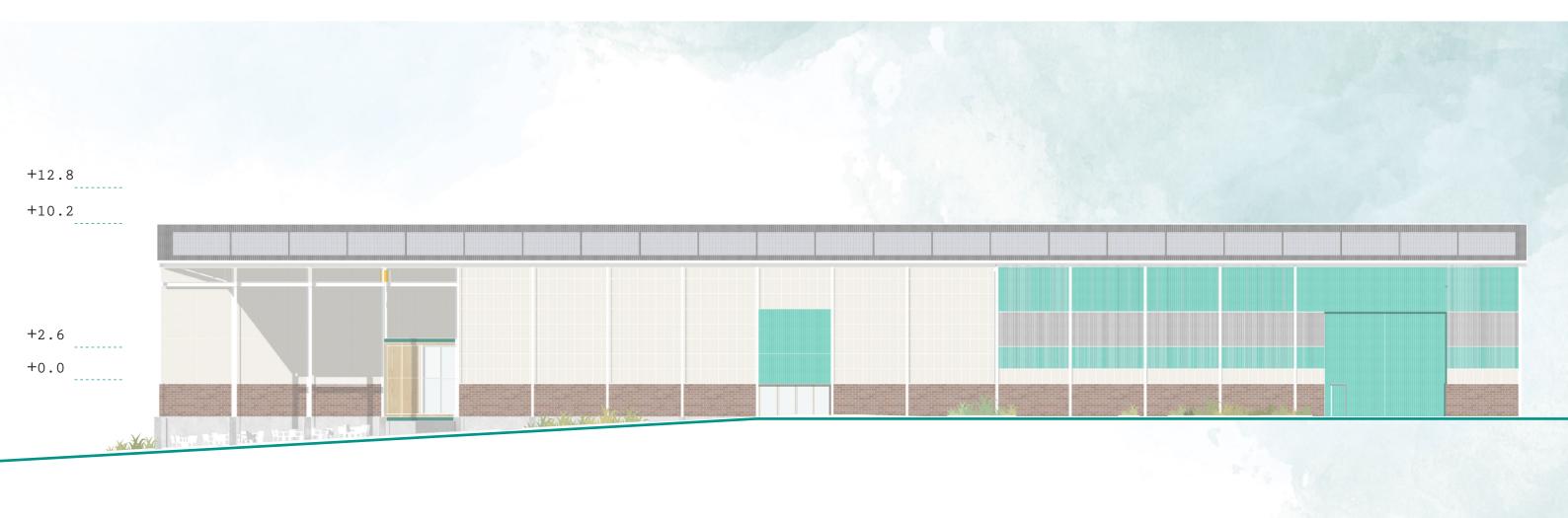


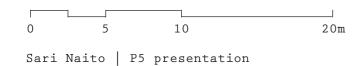


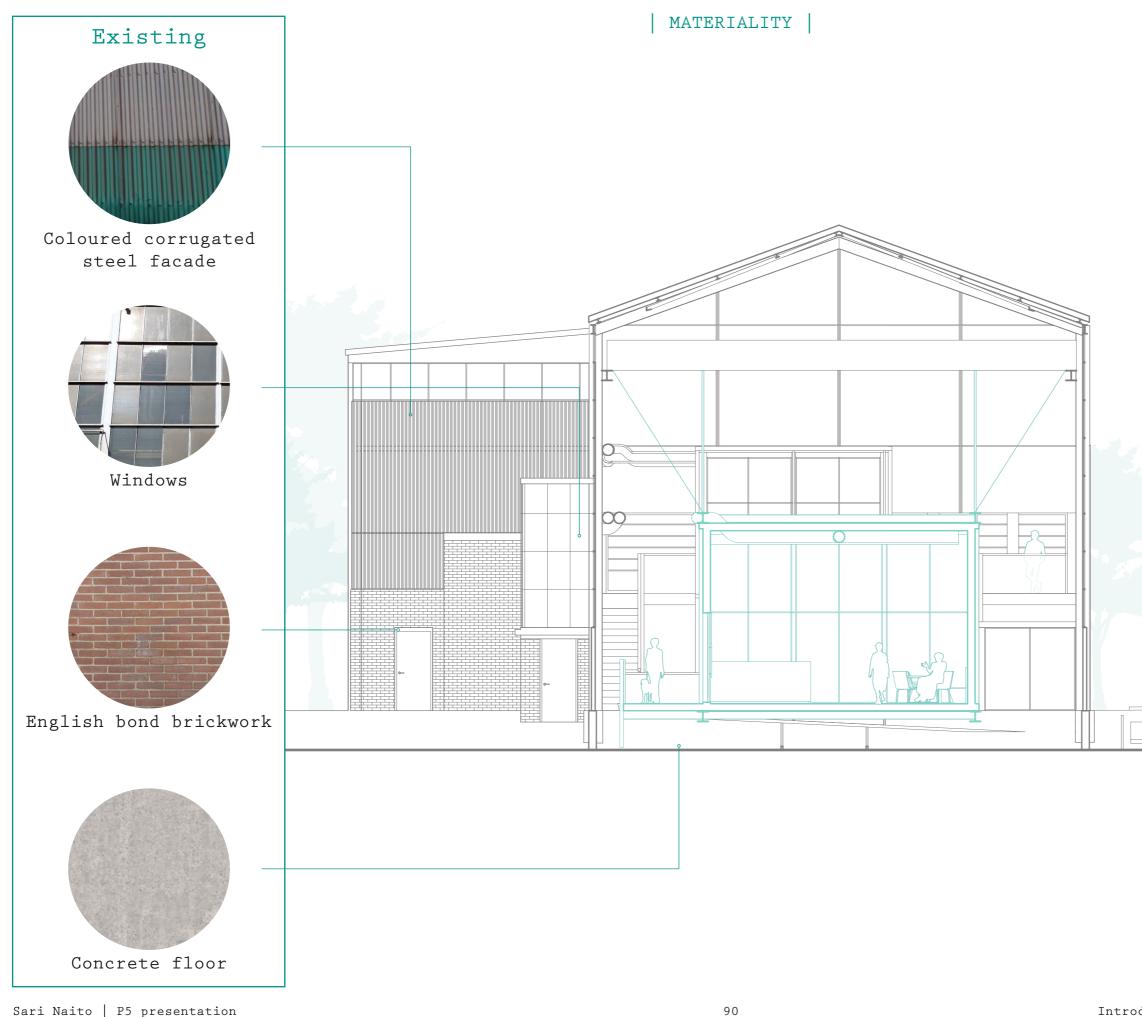
Sari Naito | P5 presentation

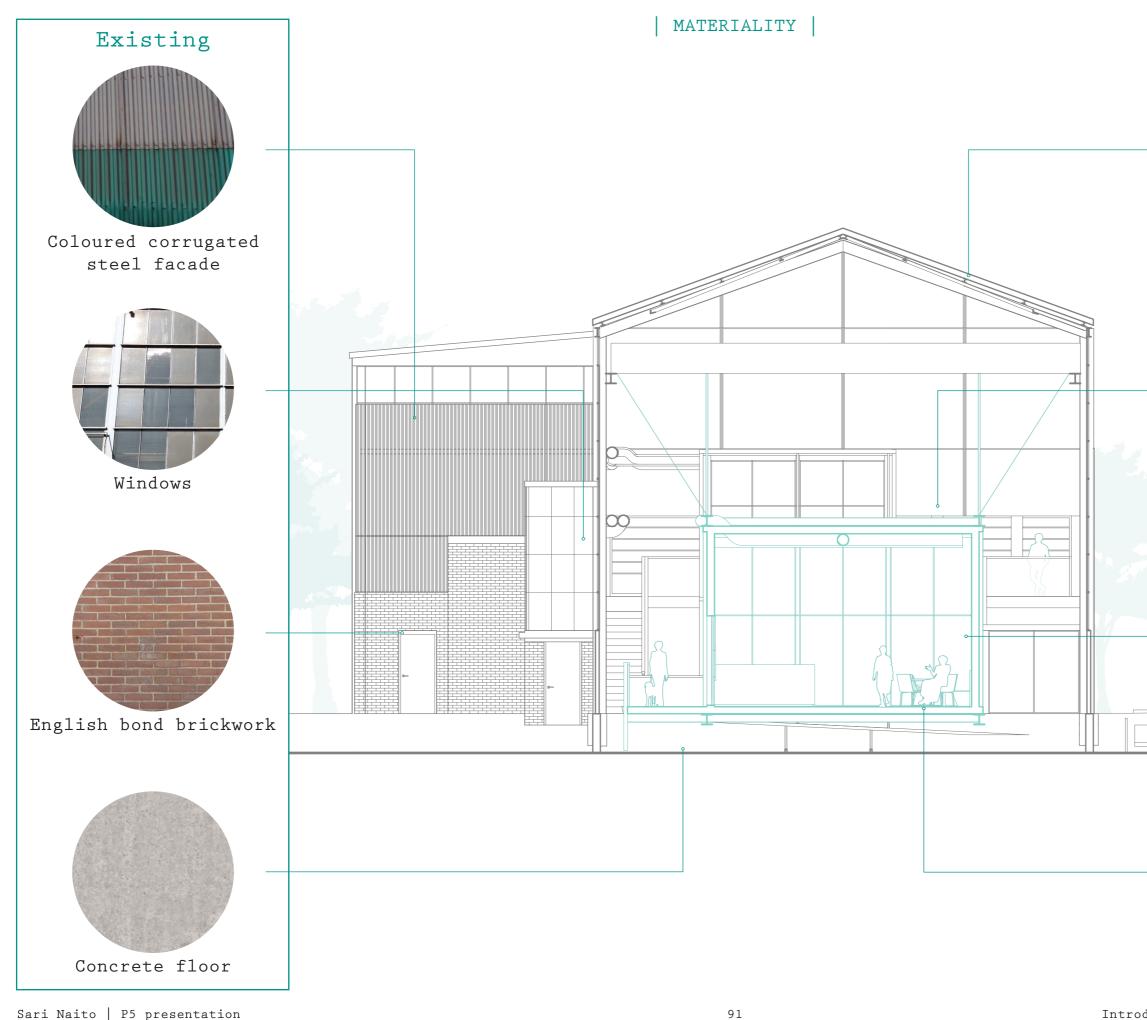


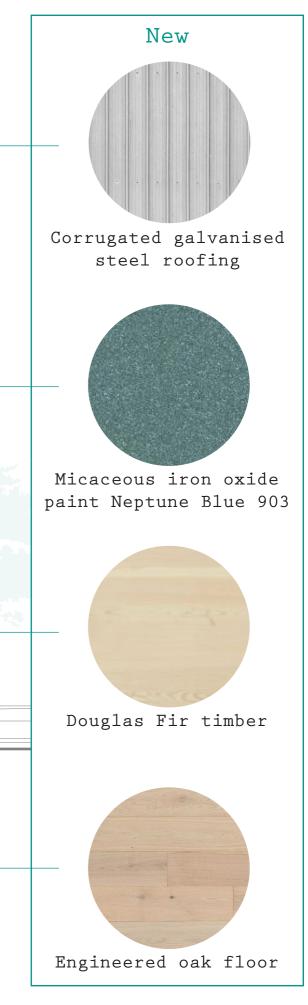
SOUTH-EAST ELEVATION











EXTERIOR MATERIALITY



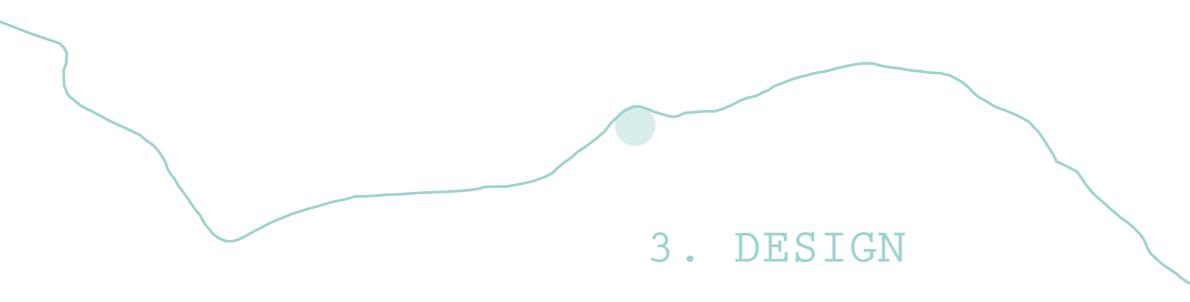
92

INTERIOR MATERIALITY



93

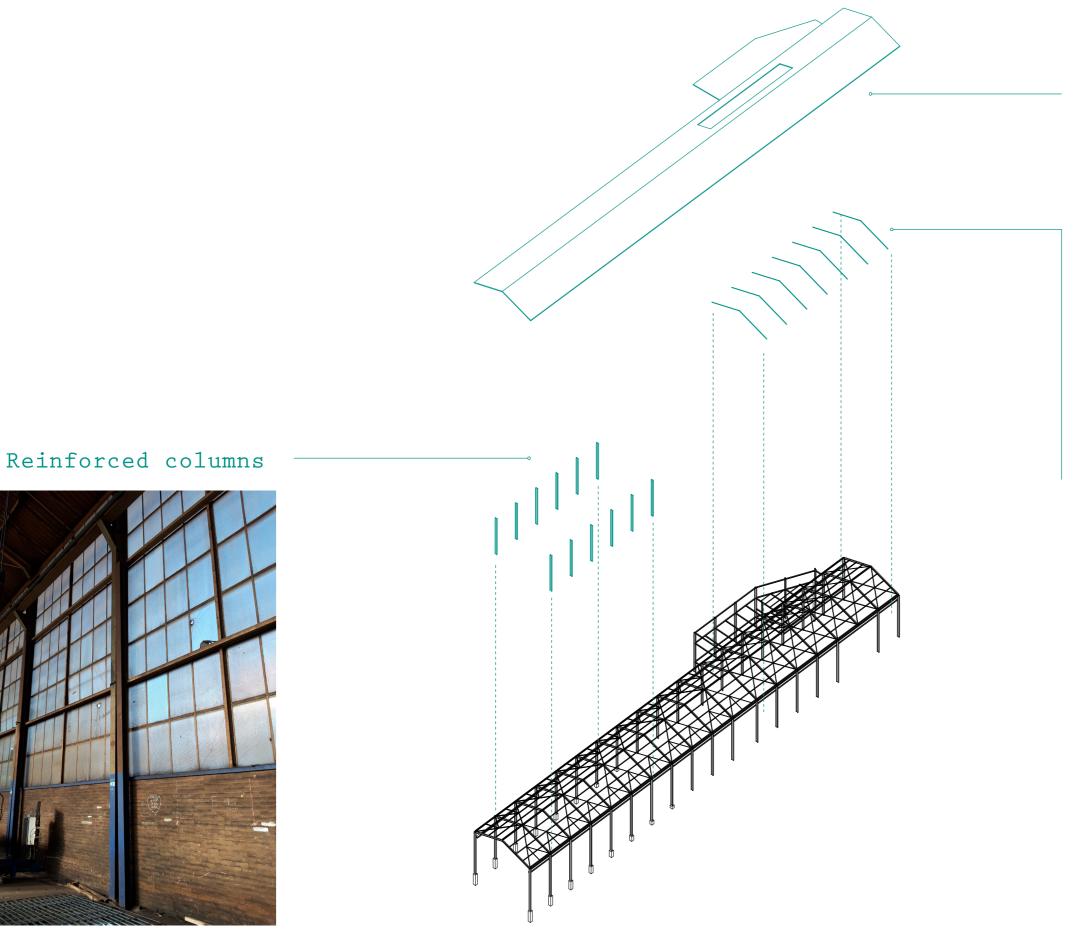




3.3 structural design

94





New corrugated steel roof

Added roof purlins



Introduction

Site

Design





Suspended box

Grounded box

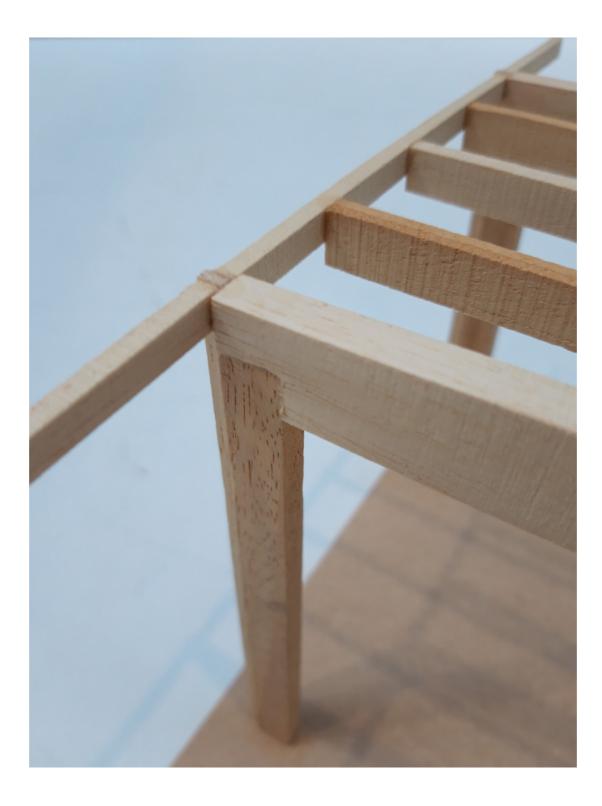




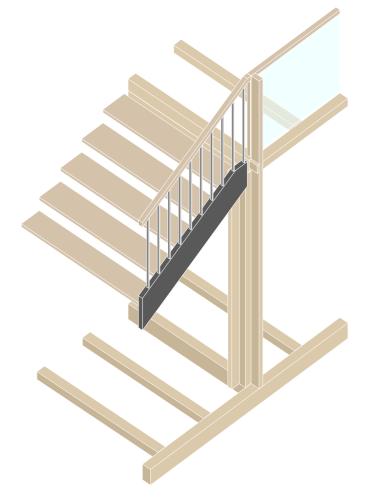
Grounded box

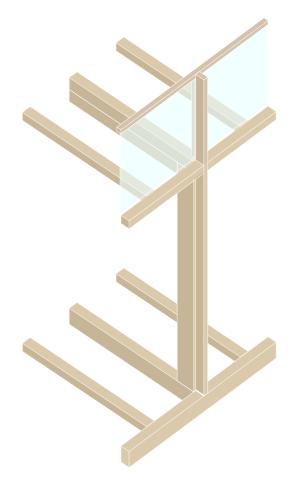


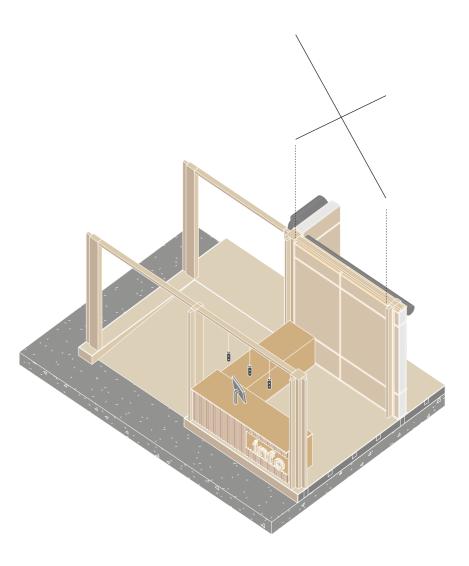




| A SINGLE PIECE OF CARPENTRY |







Timber and steel hybrid stairs

Balustrade as extension of structure

Embedded furniture

Site Design Conclusion

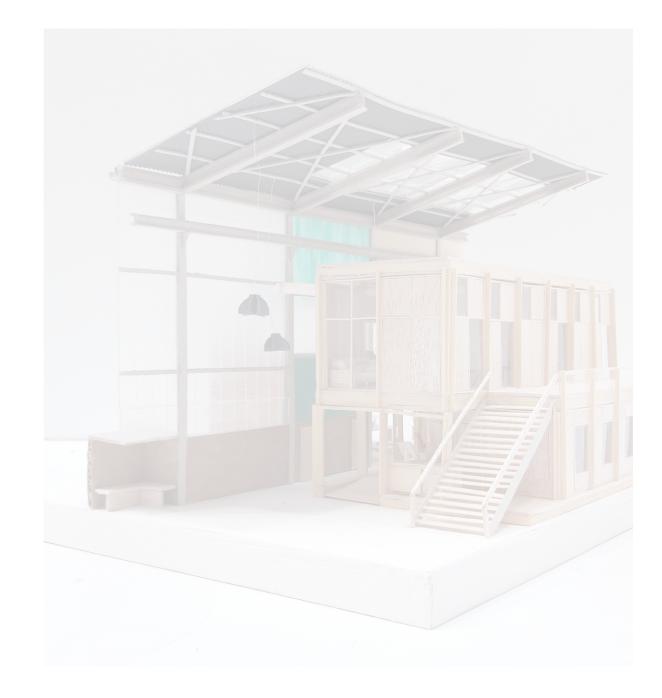
THE BALUSTRADE





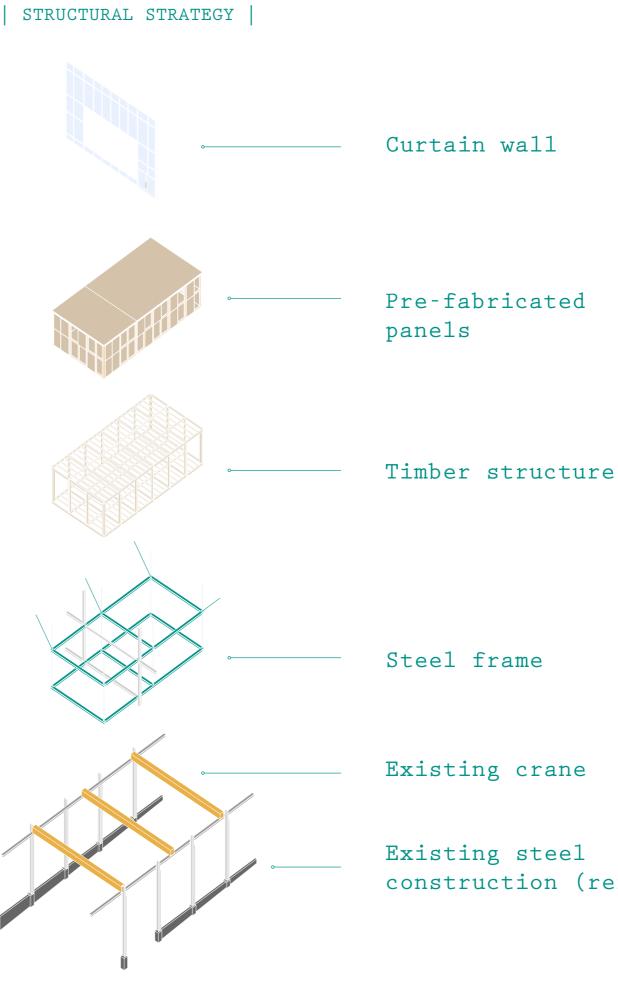






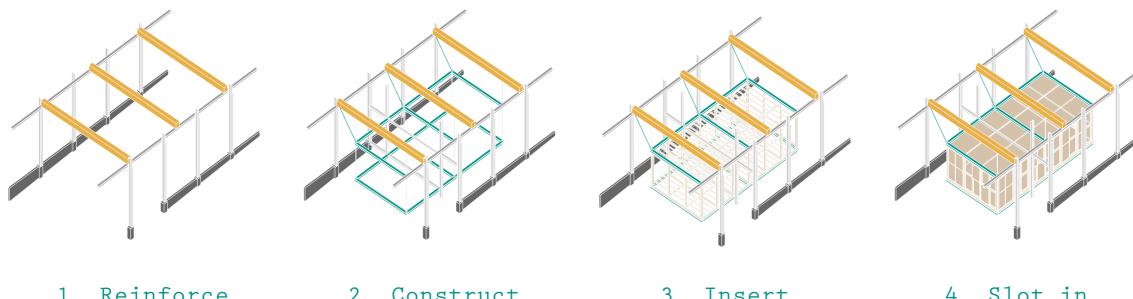
Suspended box





construction (reinforced)

CONSTRUCTION SEQUENCE

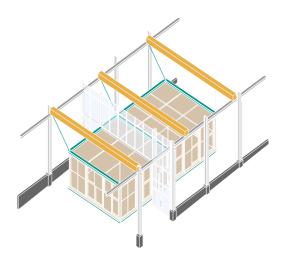


1. Reinforce existing steel frame

2. Construct new steel frame and foundations

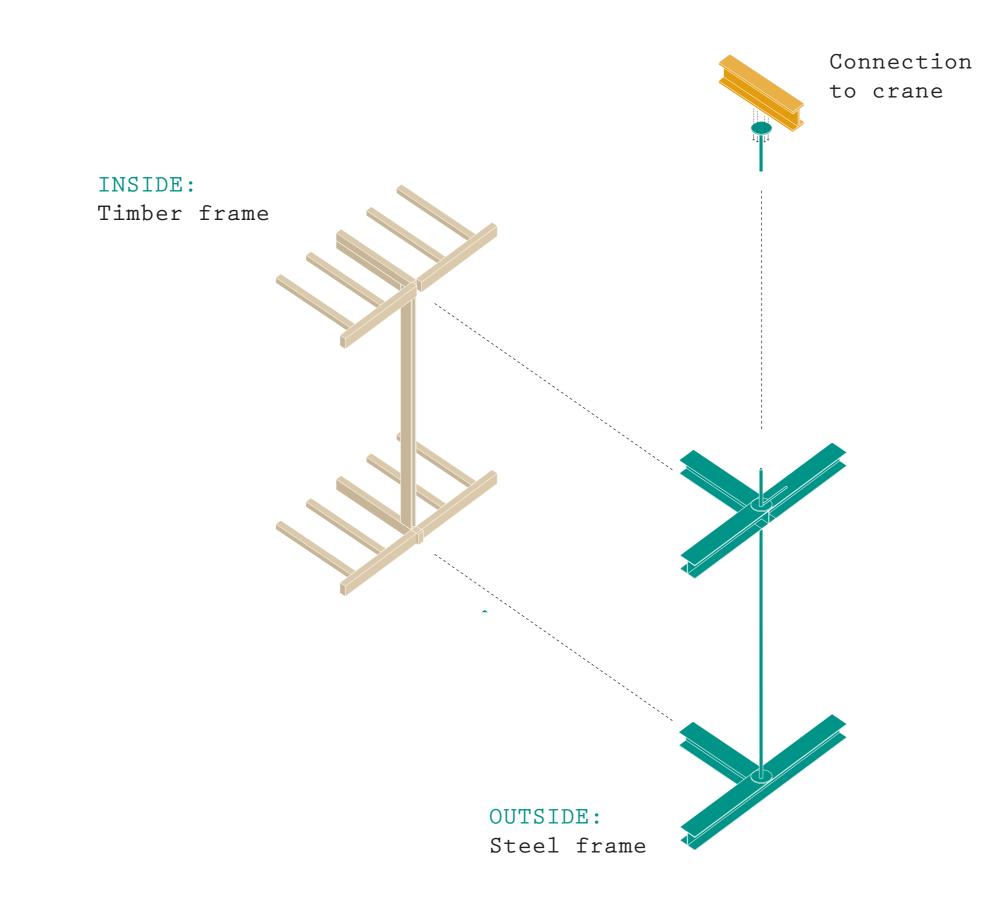
3. Insert timber structure

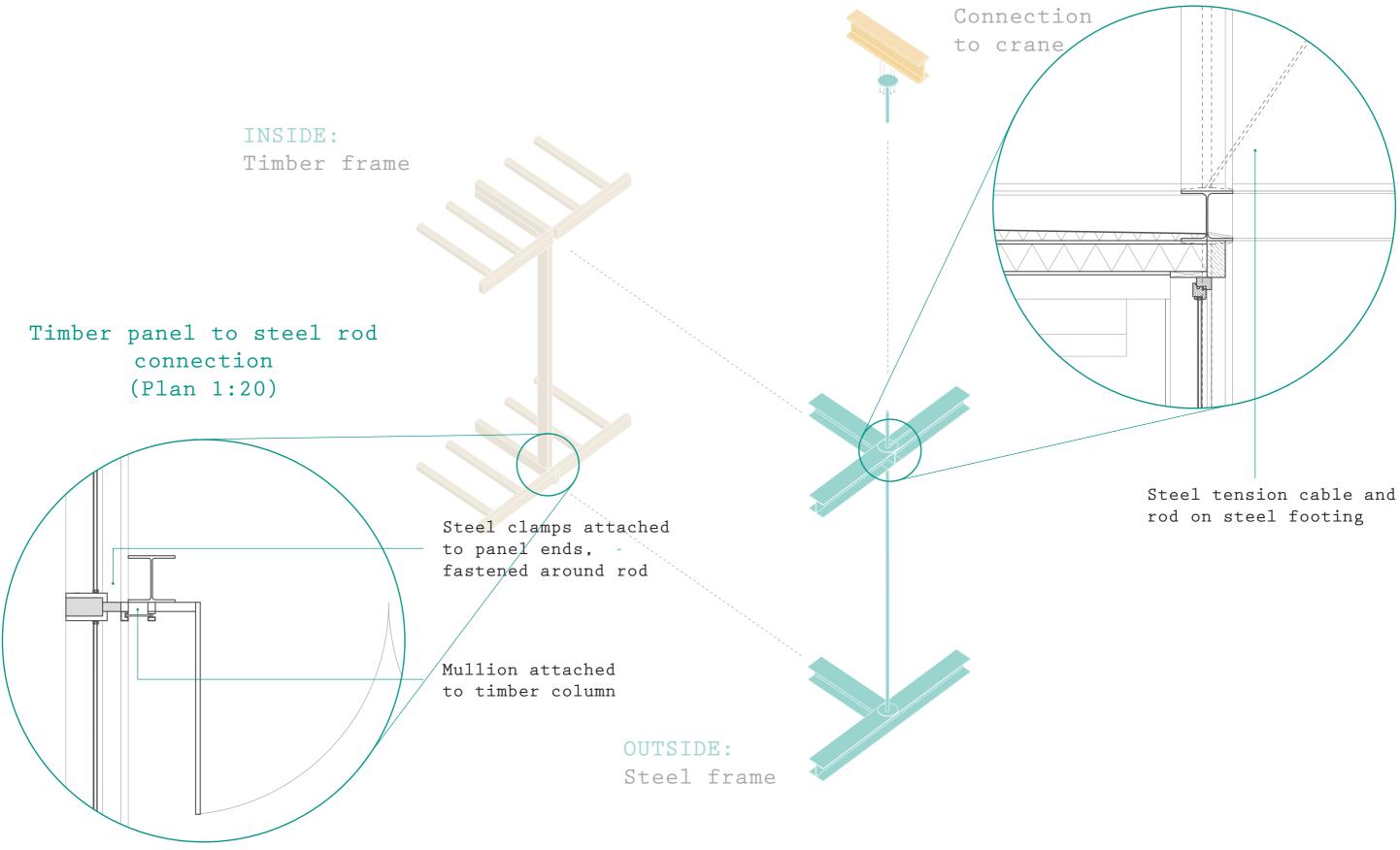
4. Slot in prefabricated panels



5. Hang curtain wall

Site

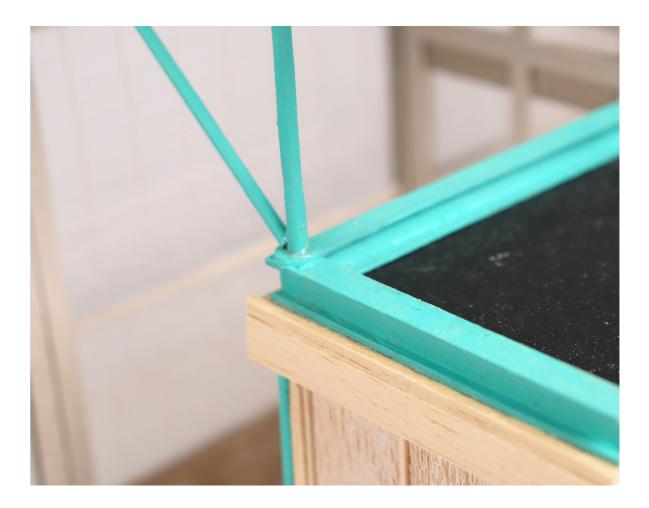




Rods and tension cables on footplate (Section 1:20)

STRUCTURAL STRATEGY |





Site

Design

Conclusion





Standard column

Column and steel rod

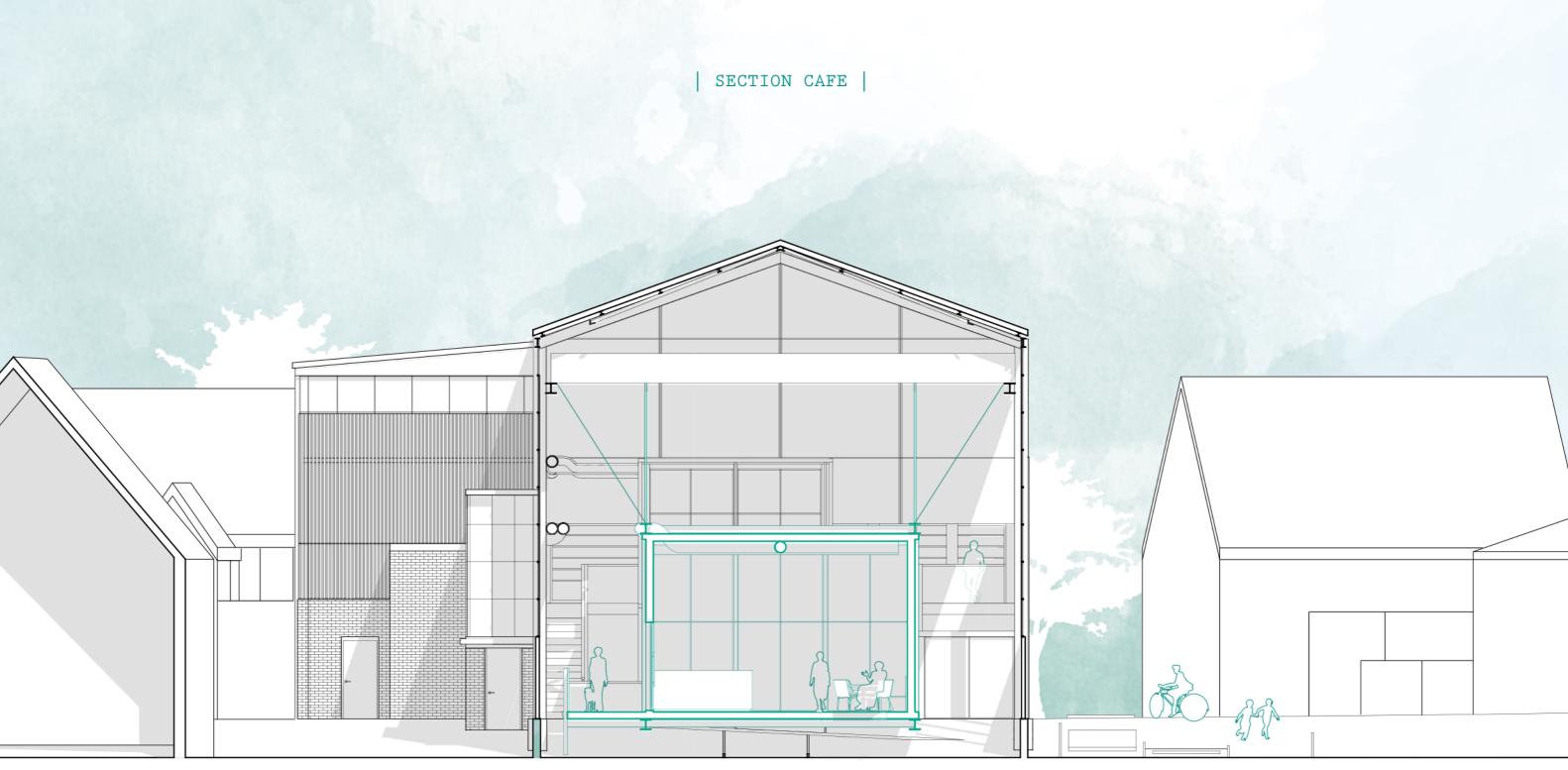


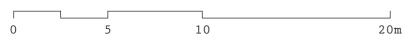
111

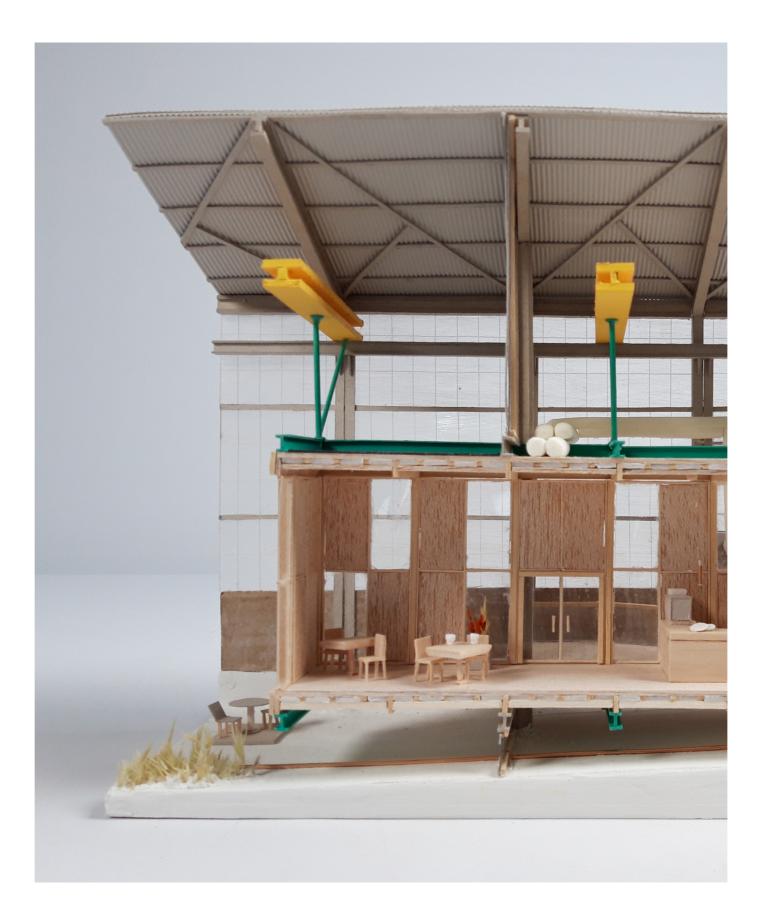
Introduction Site Design

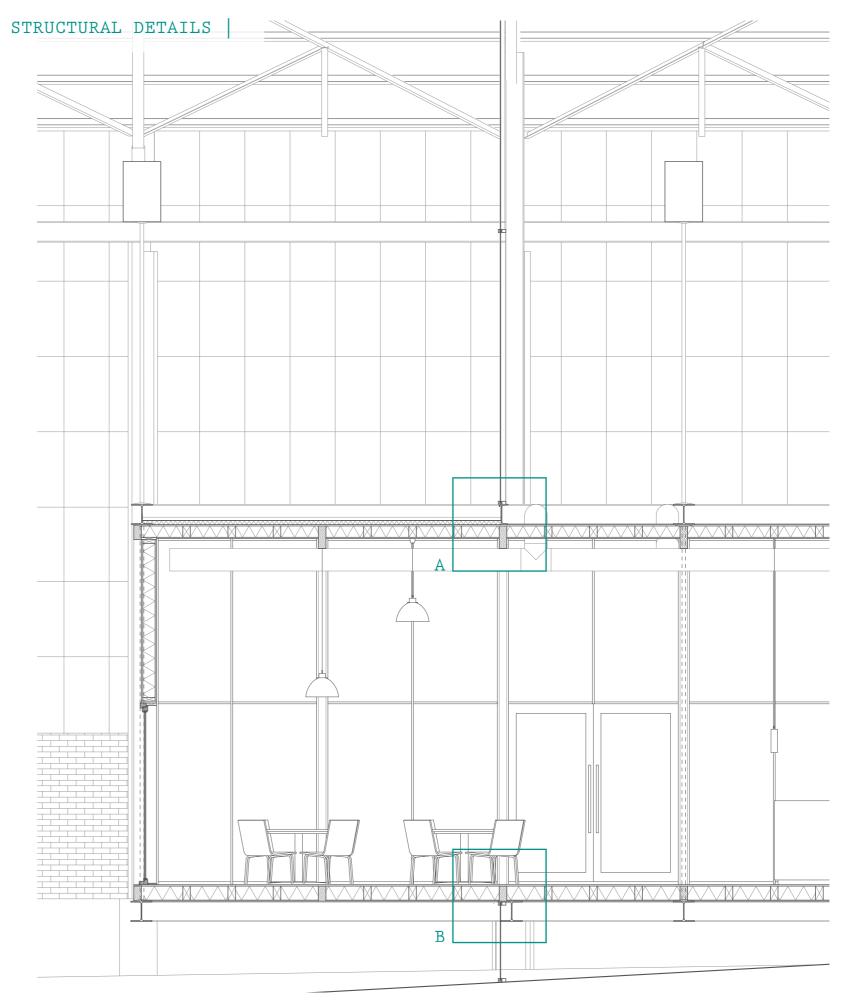
Conclusion



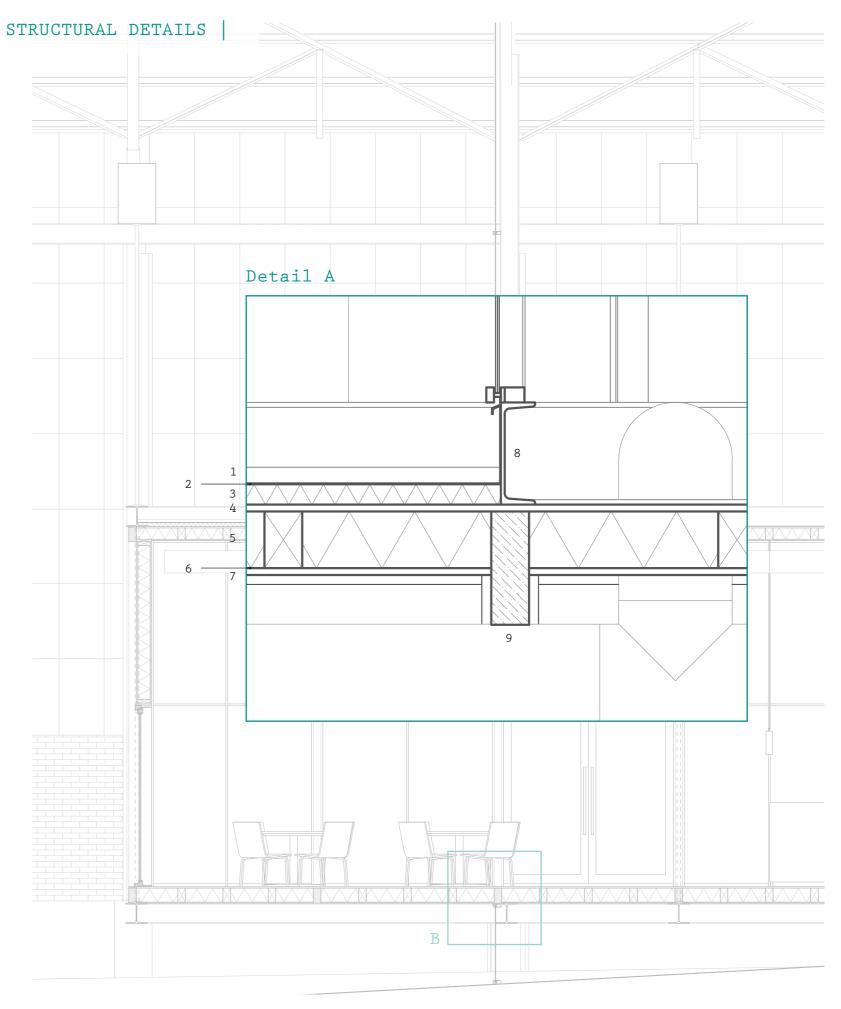




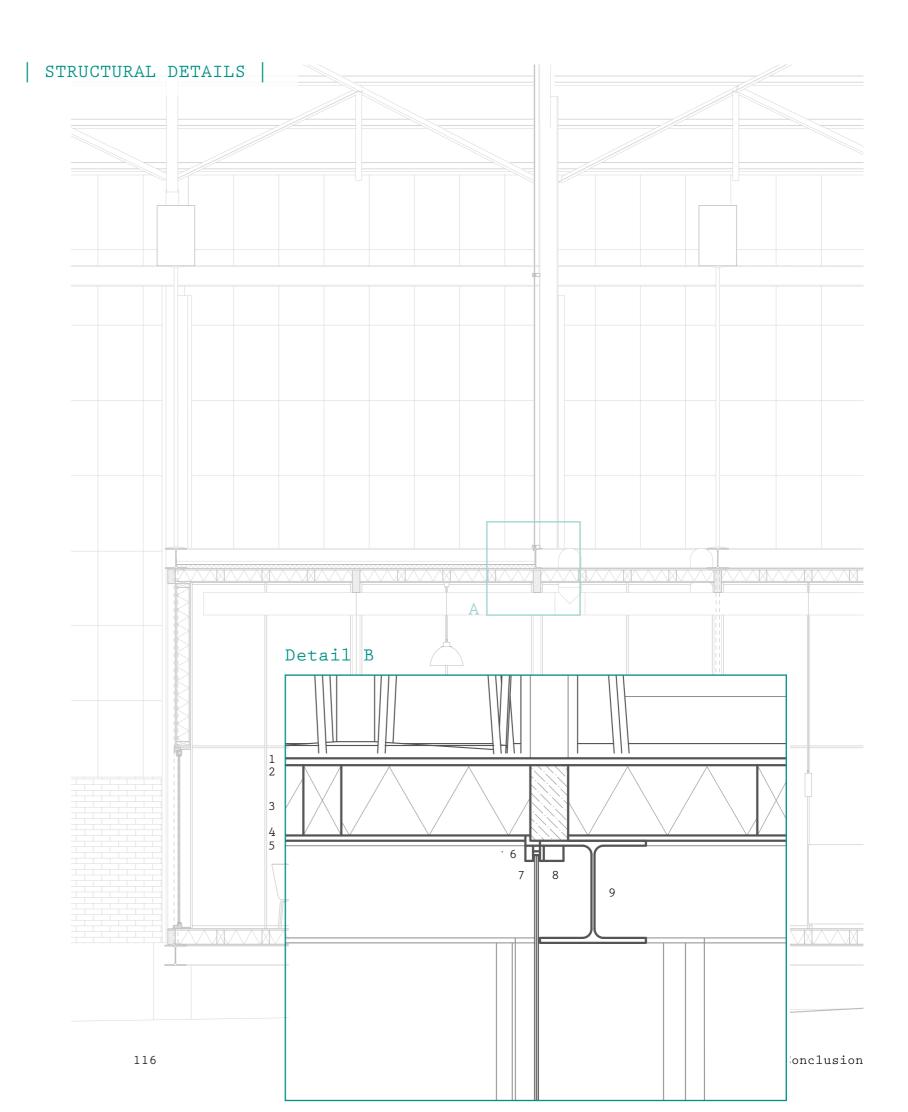






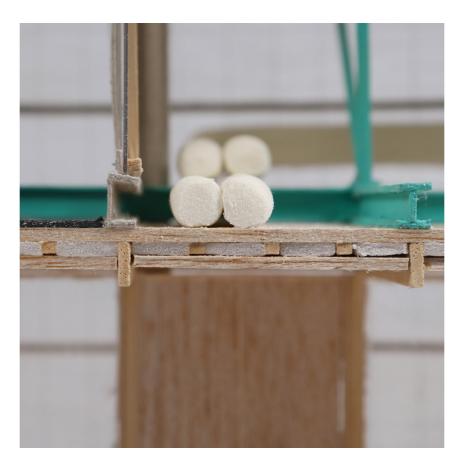


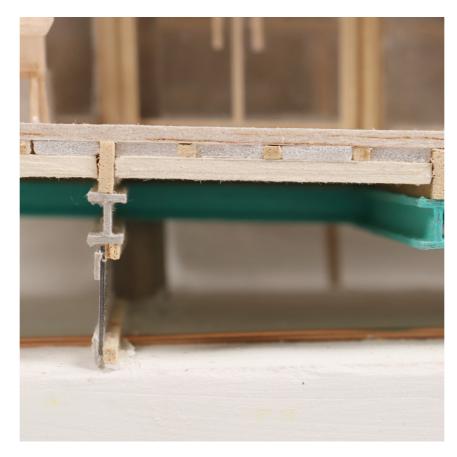
- 1. EPDM roofing lapped over channel
- 2. Damp proof membrane
- 3. Insulation sloped to gutters
- 4. 18mm ply roof deck
- 5. 150mm Rockwool insulation between timber rafters
- at 600mm centres
- 6. Vapour control layer
- 7. 22mm timber board
- 8. 280mm steel C-channel
- 9. 300 x 100mm timber primary beam



- 1. Engineered oak timber floor
- 2. Vapour control layer
- 3. 180mm Rockwool insulation between timber joists
- 4. 22mm timber board
- 5. Damp proof membrane
- 6. Aluminium curtain wall mullion (out)
- 7. Double glazed curtain wall
- 8. Timber curtain wall mullion (in)
- 9. HEA 280 beam

STRUCTURAL DETAILS



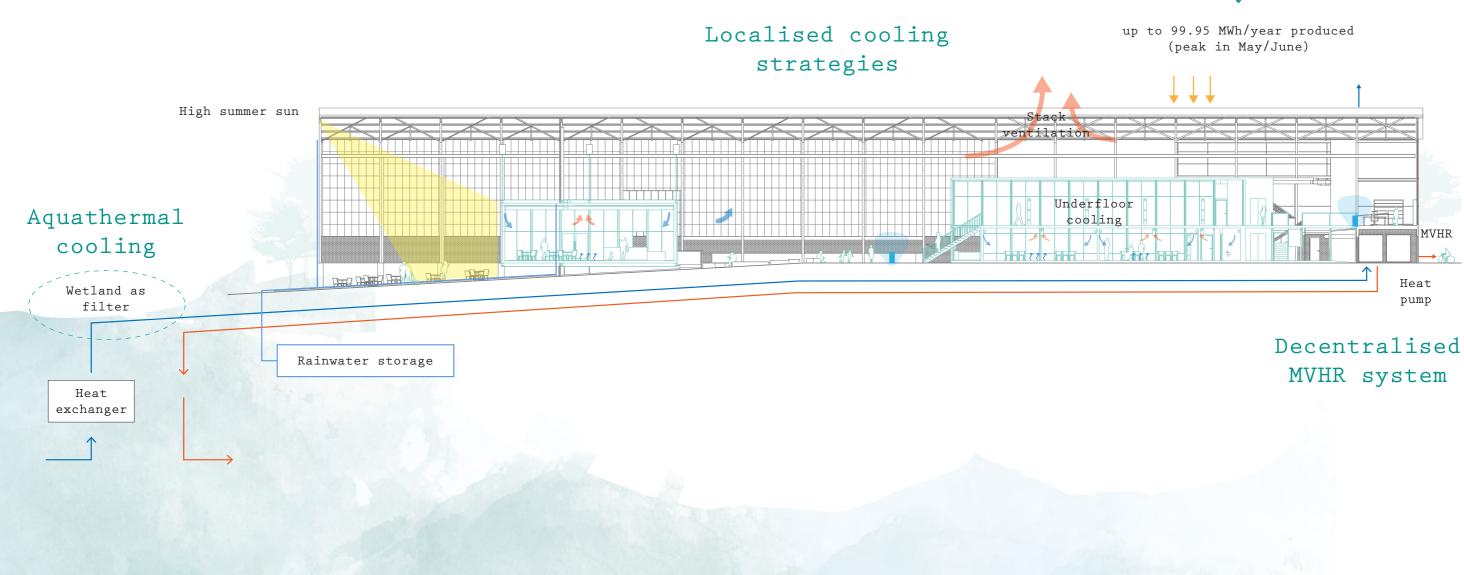




3.4 climate design

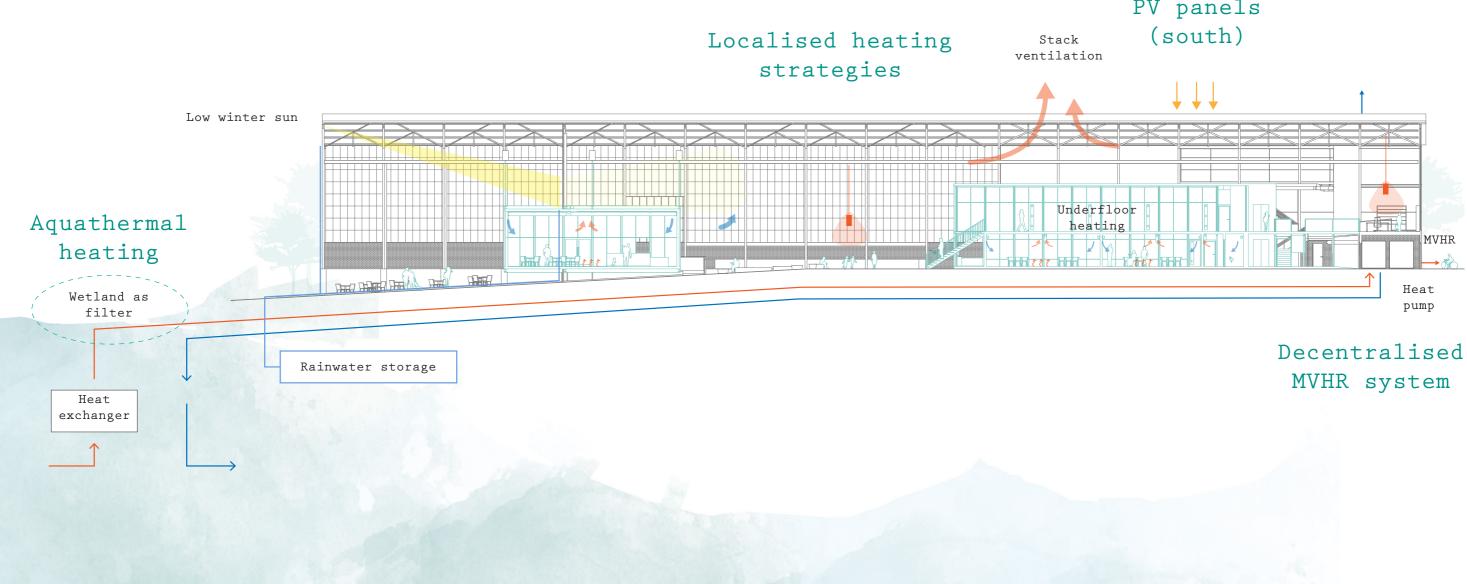


CLIMATE DESIGN - SUMMER



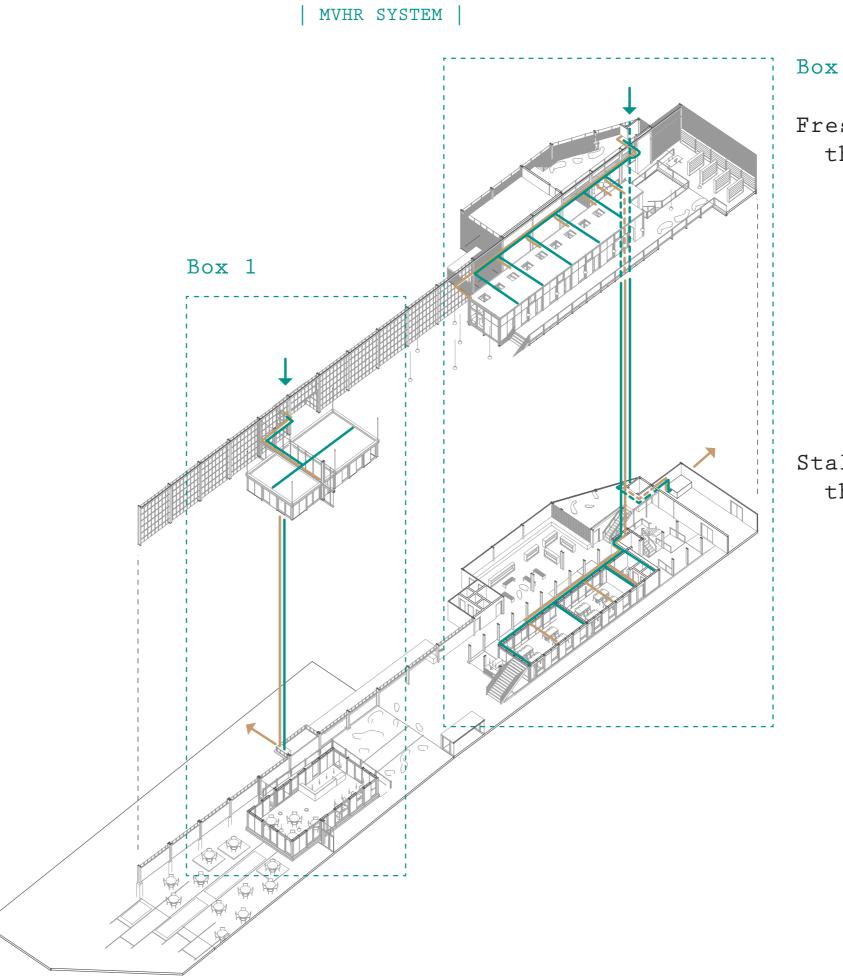
PV panels (south)

Mono-crystalline silicon solar panels (385 x 1.65m2/module)



PV panels

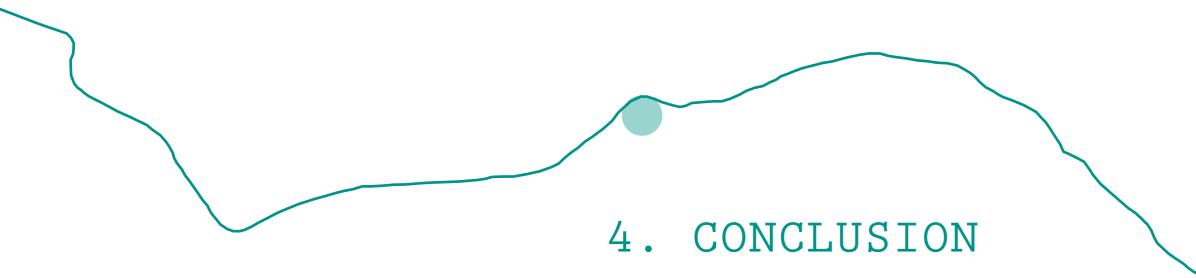
Site



Box 2

Fresh air intake through roof

Stale air output though grill





RESPONDING TO VALUES

Maritime history + connection to water Mismatched character of residential and industry









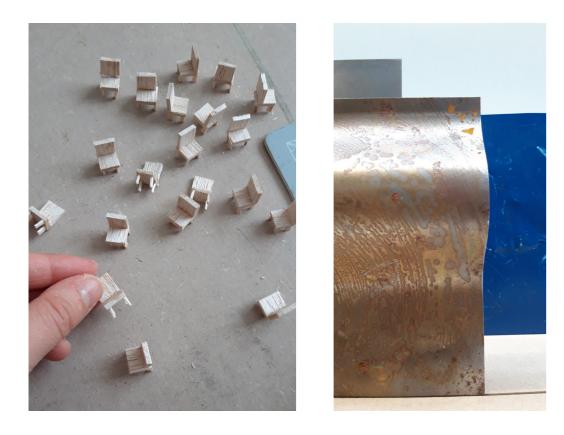
Existing maritime structures

LEARNING FROM HERITAGE AND THE FUTURE





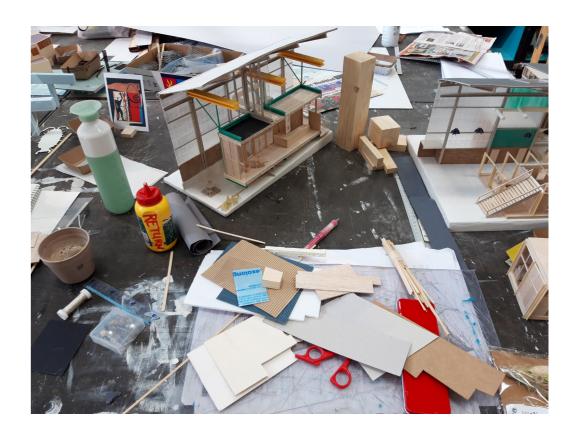
FINAL THOUGHTS



interpreting values

the beauty of simplicity

learning through making





Introduction Site

Design Conclusion

