

Delta Habitat

BACK TO BALANCE

We have lost balance with our natural habitat.

Not only are we destroying our own living conditions across the planet.

Not only have we lost connection with our river delta.

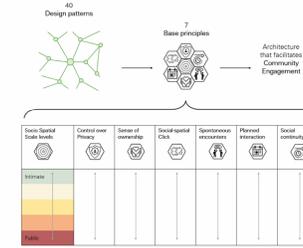
We have lost balance with our inner nature as a social species.



Case visits

Literature review

Testing



- Habitat in balance**
Biobased, nature inclusive, passive, autarkic
Minimal impact during construction
- Habitat for all**
Affordable and scalable
- Habitat in context**
Form and materials fits natural delta context



A DAY IN SPRING



DELTA HABITAT COMMUNITIES AT BERGSE ARCHTERPLAS IN ROTTERDAM SHOWING THE MANY POSSIBLE CONFIGURATIONS



LIVING WITH NATURE



ORTHOGONAL VIEW OF THE CLUSTER COHOUSING VILLA



COMMUNITY LIVE IN SUMMER

MAST Land On Water system

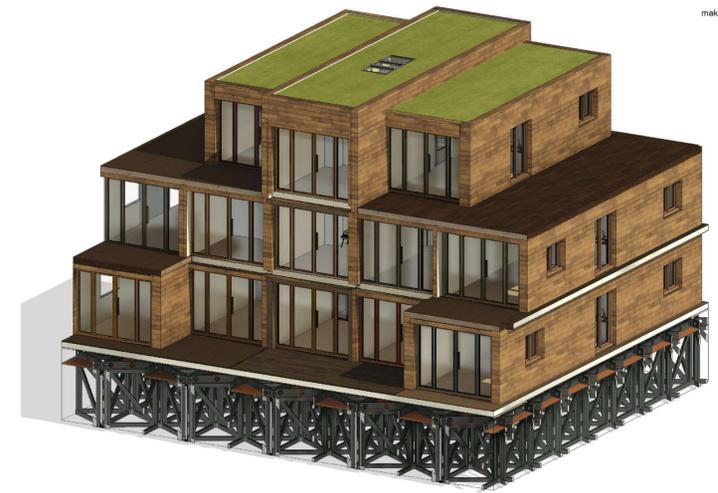
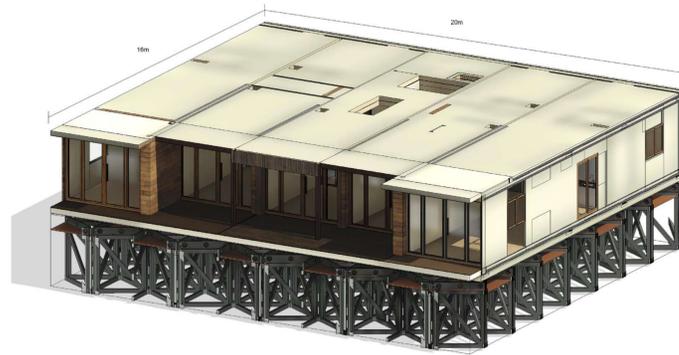
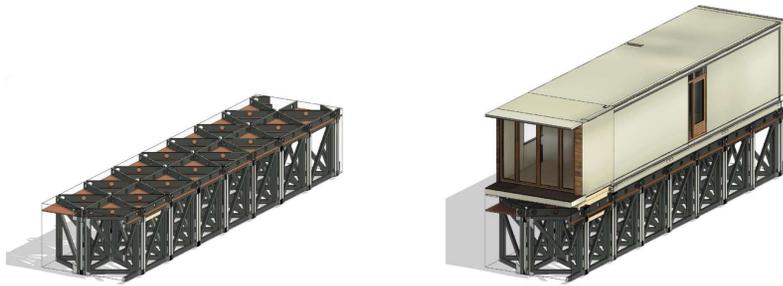
-  Recycled plastic
-  Many shapes possible
-  Nature inclusive
-  Modular
-  Scalable

CLT pre-fabricated modules

-  Biobased materials
-  Modular
-  Affordable
-  Scalable

The size is the optimal balance.
 Larger would require concrete and steel for rigidity.
 Smaller would require concrete for stability.
 Larger would devoid the water of too much sunlight

With a modular orthogonal building system
 a more rounded form has been designed.
 Housing between ~8 and ~16 people
 making it the perfect size to share daily life



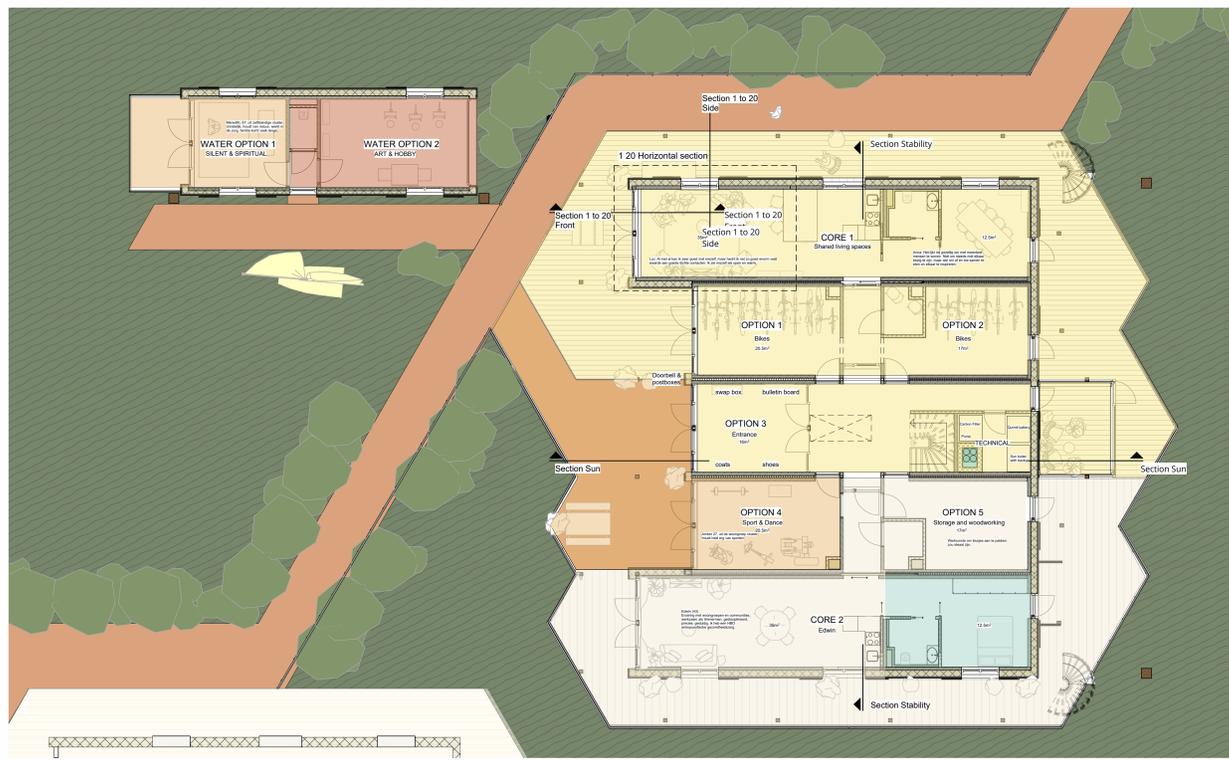
The optimised building system facilitates many different forms of collective living and provides all scales levels a framework for expression.



ONE DELTA HABITAT IN THE RONDE HAVEN IN CULEMBORG



SIX DELTA HABITATS ON A LARGER LAKE IN WINTER



GROUND FLOOR
1:100



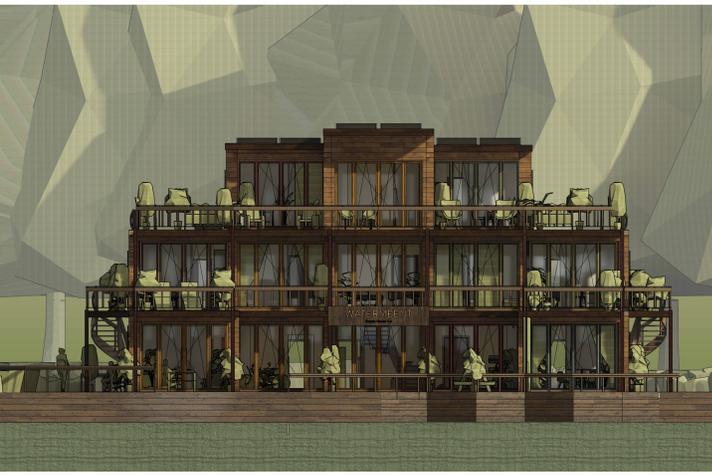
EAST ELEVATION
1:100



SECTION SUN
1:100



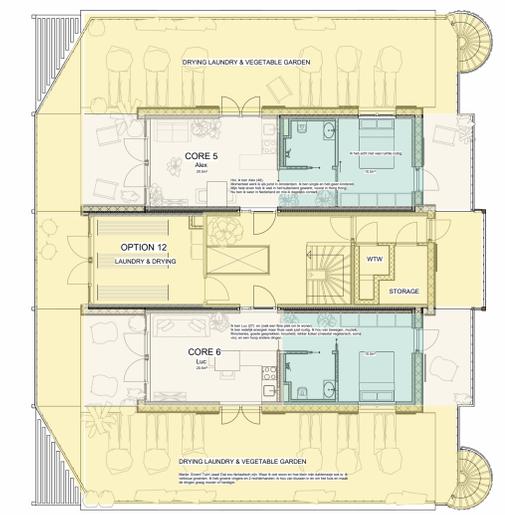
FIRST FLOOR
1:100



SOUTH ELEVATION
1:100



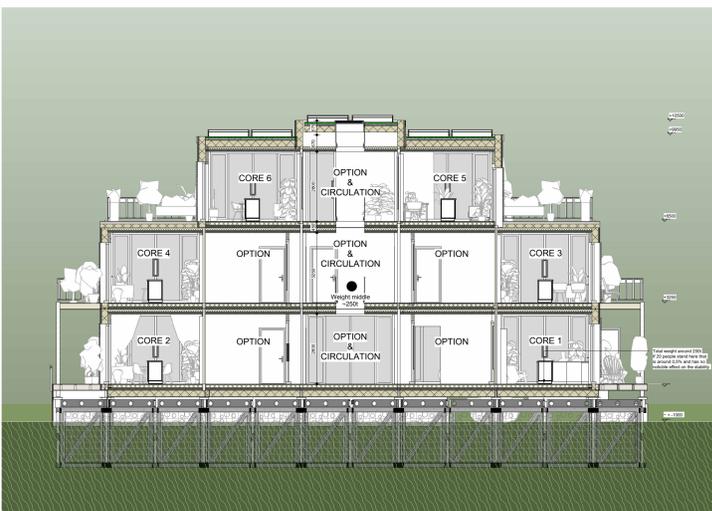
CONCEPTUAL FLOWS DIAGRAM
1:100



SECOND FLOOR
1:100



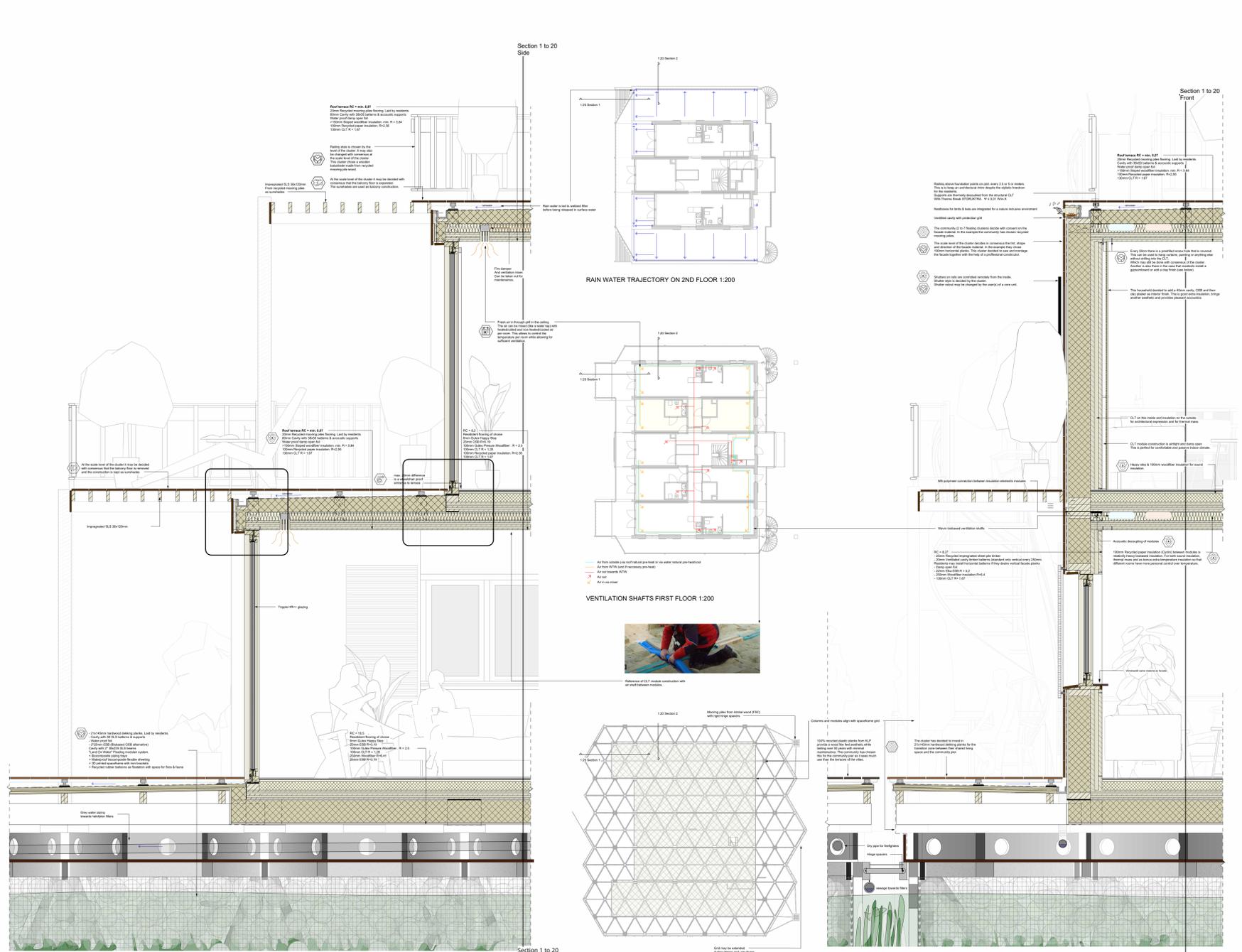
NORTH ELEVATION
1:100



SECTION STABILITY
1:100



ELEVATION
1:20

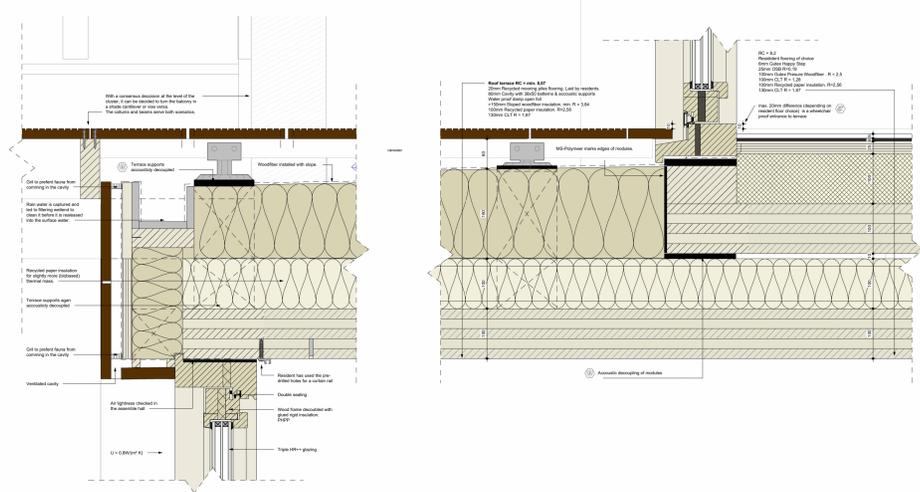


SECTION 1
1:20

FOUNDATION GRID
1:200

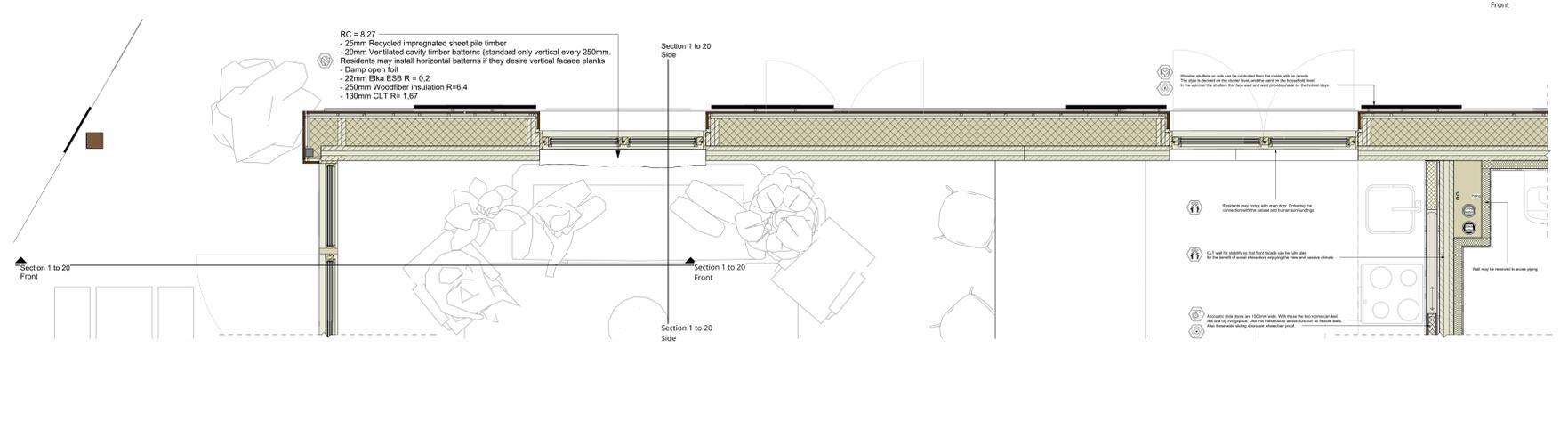
SECTION 2
1:20

Section 1 to 20
Front



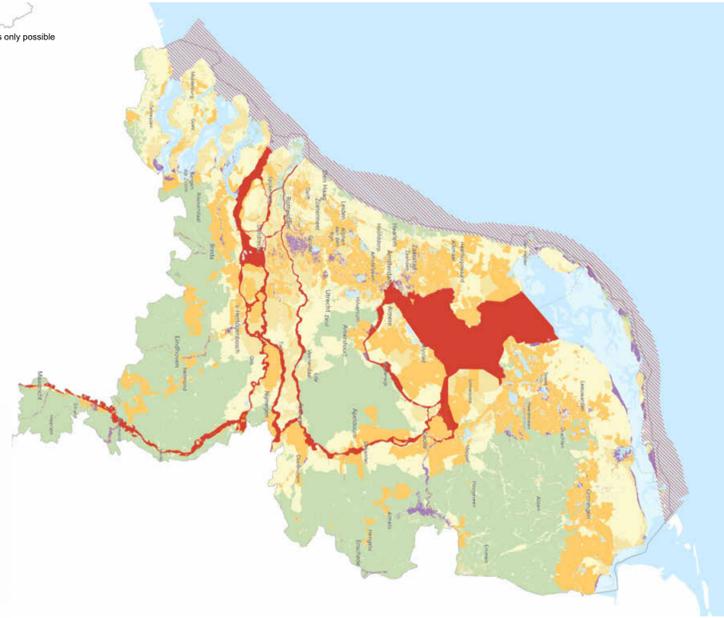
DETAIL 1
1:5

DETAIL 2
1:5



HORIZONTAL SECTION
1:20

MAP MADE BY RUIMTELIJK AFWEGINGSKADER 2024
 This map shows where in The Netherlands construction is only possible
 if it is done in a climate adaptive way.



Gecombineerde sturingskaart
 In Aanpak
 In Nieuw, geleidelijke opbouw
 In Nieuw, gedeeltelijke opbouw
 In Nieuw, geleidelijke opbouw
 Nieuw, traag
 Bestaande gemeentebestemming
 Bestaand



SURROUNDINGS 1:5000



RONDE HAVEN BY THE RIVER LEK



RONDE HAVEN DURING EXTREMELY HIGH WATER



A SAND EXTRACTION LAKE IN ZWOLLE. ONE OF THE MANY BY DUTCH CITIES.



A LARGE WATER RETENTION AREA IN HAARLEM NEXT TO A TRAIN STATION



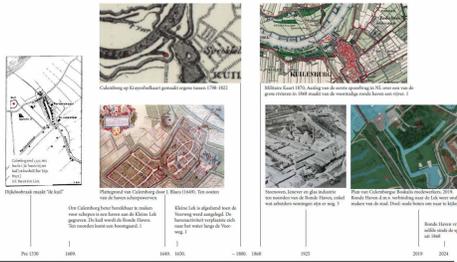
A VIEW AT CULEMBORG WHILE PASSING THE RONDE HAVEN



FLOATING UP TO THE DIKE



CULEMBORG 1649



1. De Ronde Haven werd ontworpen als een woon- en werkterrein voor de stad.
 2. De Ronde Haven werd ontworpen als een woon- en werkterrein voor de stad.
 3. De Ronde Haven werd ontworpen als een woon- en werkterrein voor de stad.
 4. De Ronde Haven werd ontworpen als een woon- en werkterrein voor de stad.

GESCHIEDENIS RONDE HAVEN



WOONCOÖPERATIE DE RONDE HAVEN WITH 3 DELTA HABITATS AND ON THE DIKE A CONNECTION WITH THE HIGHER SCALE LEVELS

Ronde Haven through time

1:500

START

WATERMEENT CLUSTER COHOUSING
 12-13 stories
 Shared living and cohousing (and some self-storage)
 Shared kitchen, day living spaces

WOONGROEP TOON CLUSTER COHOUSING
 12-13 stories
 Shared living and cohousing (and some self-storage)
 Shared kitchen, day living spaces

DELTAHUIS CLASSIC COHOUSING
 12-13 stories
 Shared living and cohousing (and some self-storage)
 Only shared functional spaces at ground level
 Shared kitchen at community space

DIJKHUIS
 + 6 meter

+10 years

WATERMEENT CLUSTER COHOUSING / SHARED LIVING
 12-13 stories
 Shared living and cohousing (and some self-storage)
 Shared kitchen, day living spaces

WOONGROEP TOON CLUSTER COHOUSING
 12-13 stories
 Shared living and cohousing (and some self-storage)
 Shared kitchen, day living spaces

DELTAHUIS CLUSTER COHOUSING
 12-13 stories
 Shared living and cohousing (and some self-storage)
 Only shared functional spaces at ground level
 Shared kitchen at community space

DIJKHUIS
 + 6 meter

+20 years

WATERMEENT CLUSTER COHOUSING
 12-13 stories
 Shared living and cohousing (and some self-storage)
 Shared kitchen, day living spaces

WOONGROEP TOON CLUSTER COHOUSING
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DIJKHUIS
 + 6 meter

GROUND FLOOR

FIRST FLOOR

SECOND FLOOR

