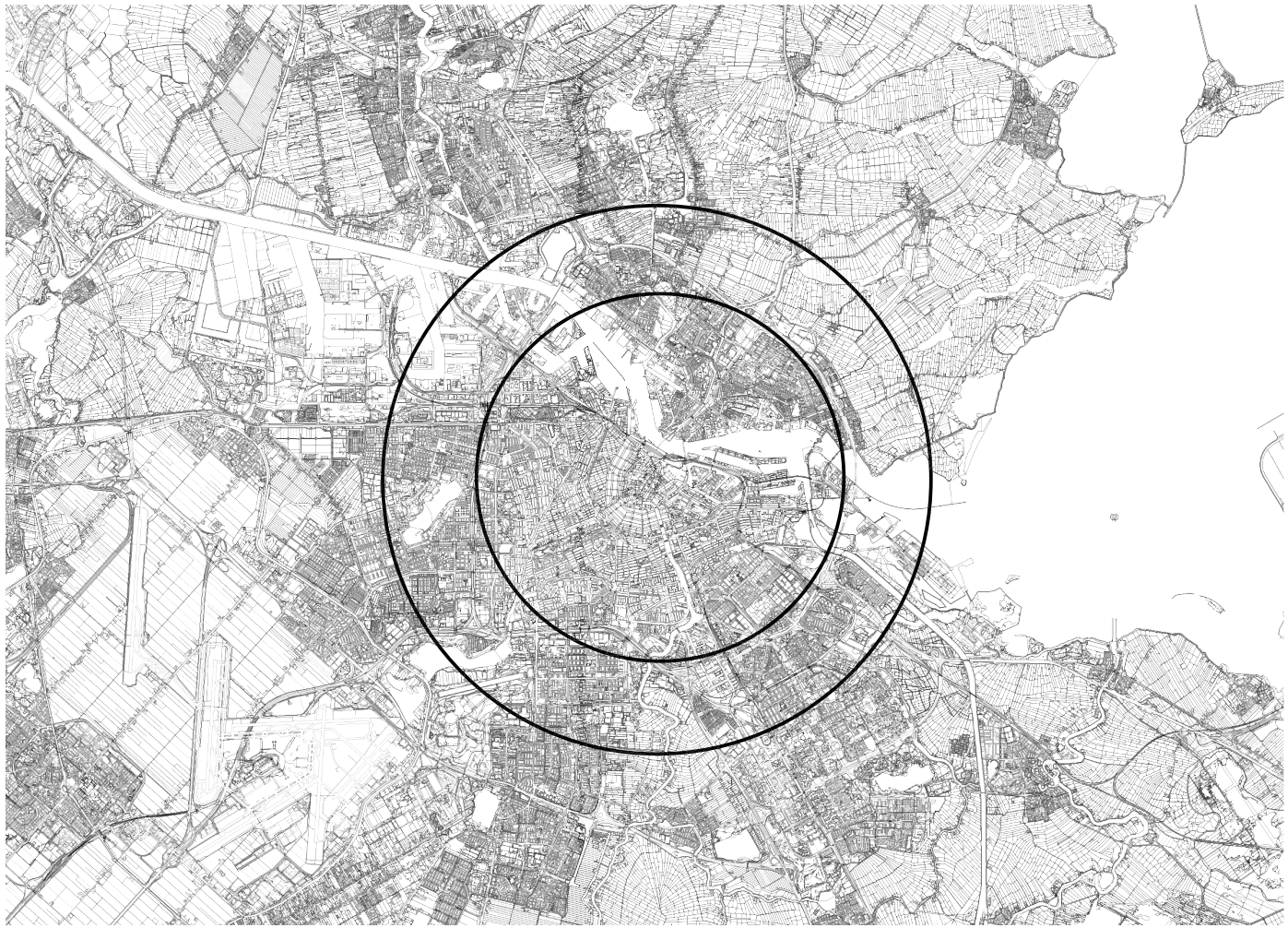
City Hotel
Amsterdam

Stenen Hoofd ***Wetland***

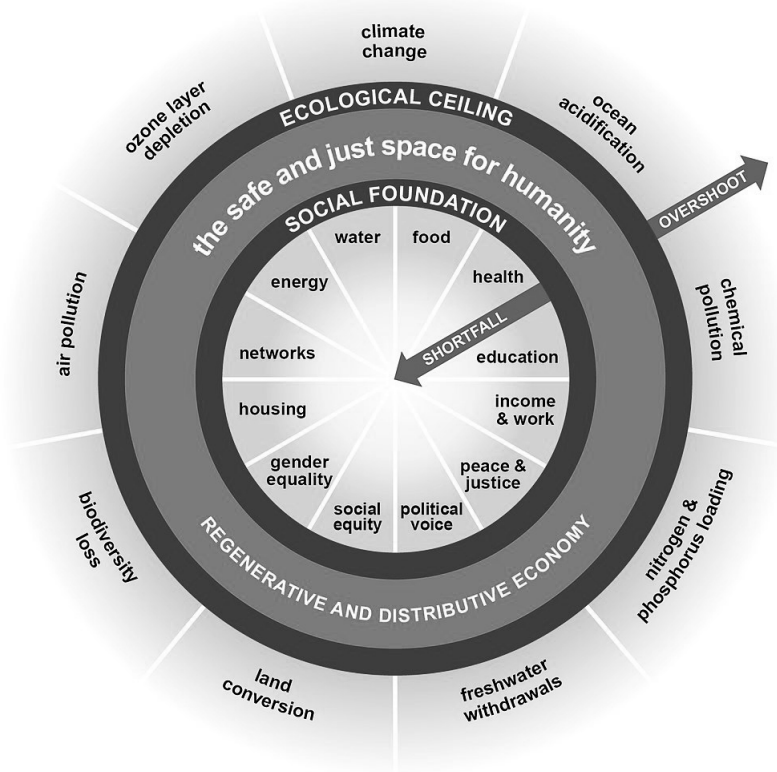
Sam de Vocht | Matthijs Klooster | Daniel Rosbottom | Mark Pimlott

Weronika Lendzion 5077133

local metropolis Amsterdam

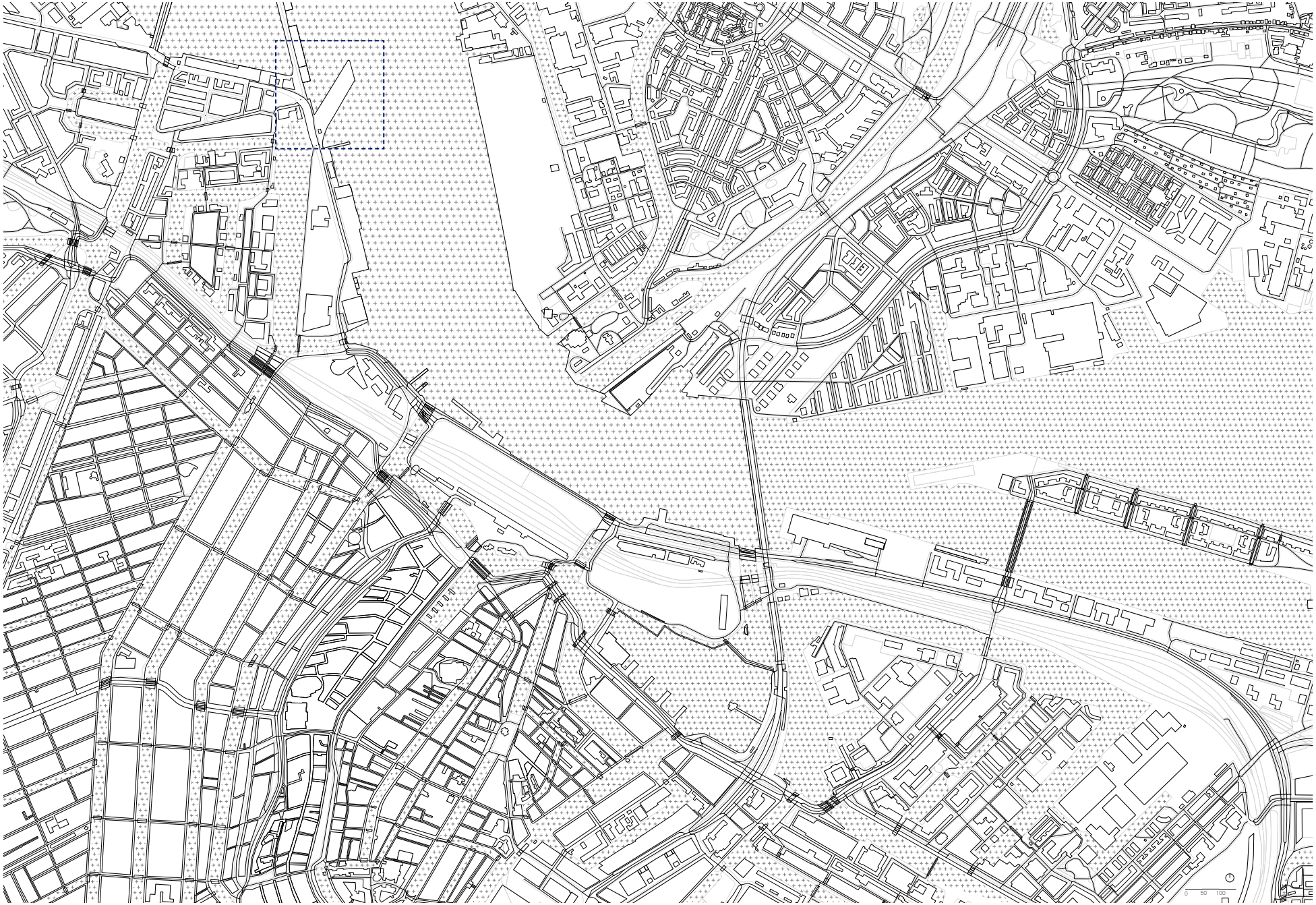


Amsterdam as a first city to implement the doughnut model

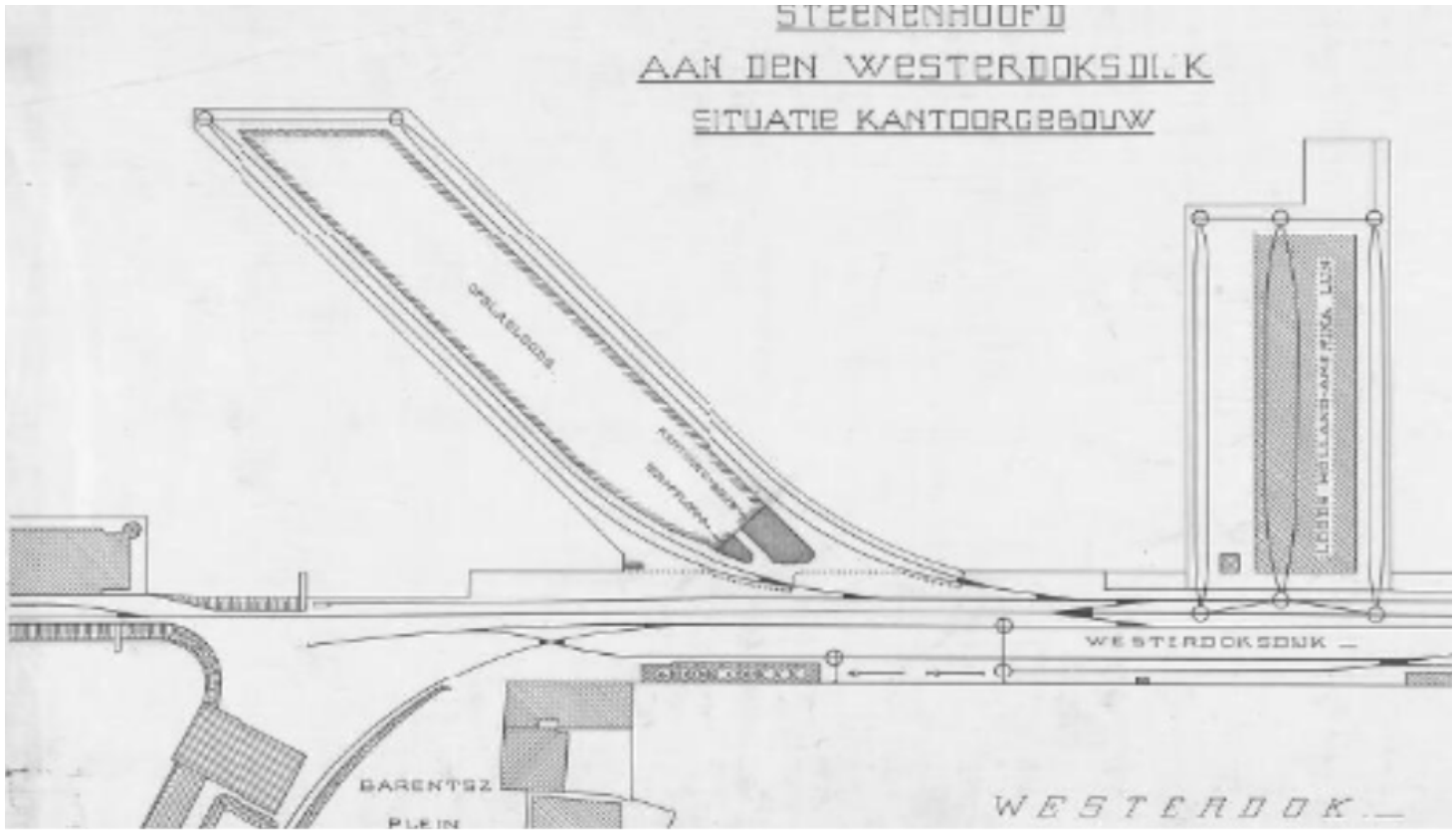


Doughnut Economics

Four ‘lenses’ of Amsterdam’s city doughnut

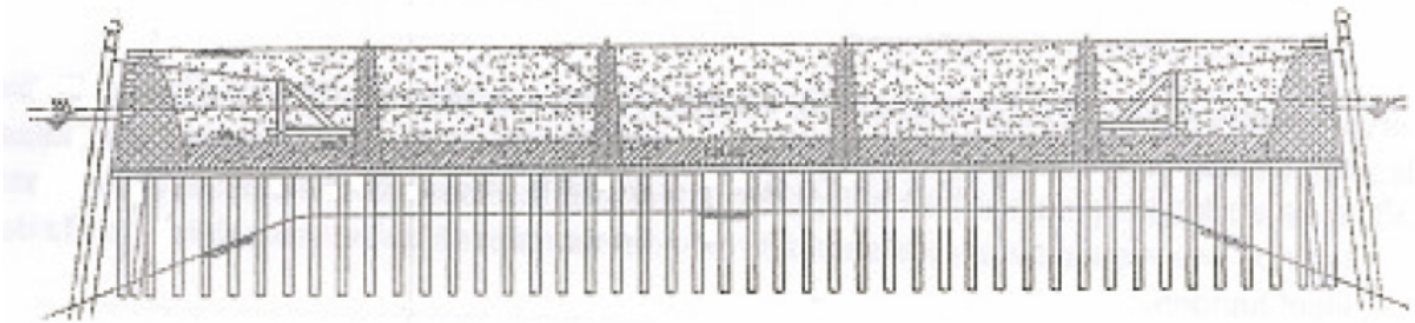


Location of the project



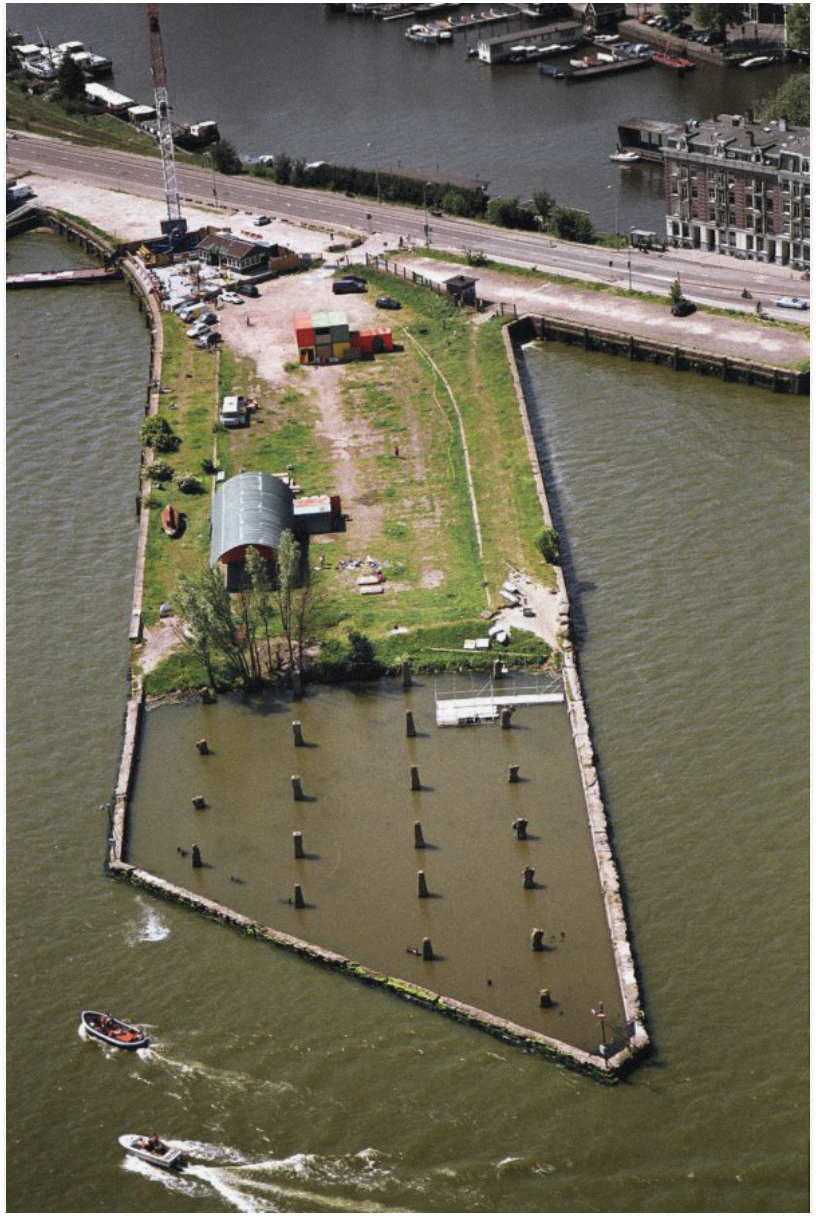
Amsterdam archives

historical context



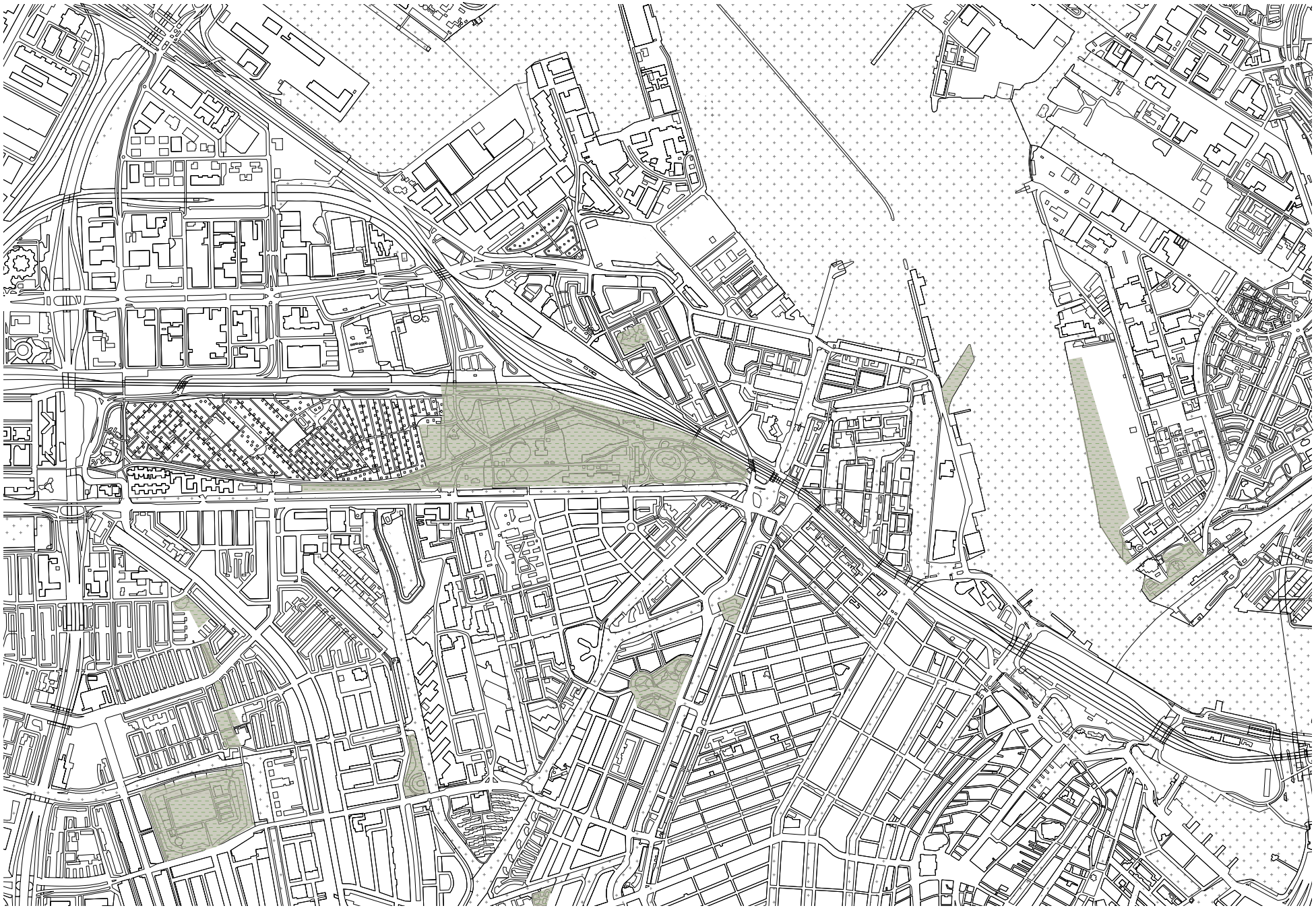
Amsterdam archives

structure of the pier



https://www.stenenhoofd.nl/

Stenen Hoofd current situation

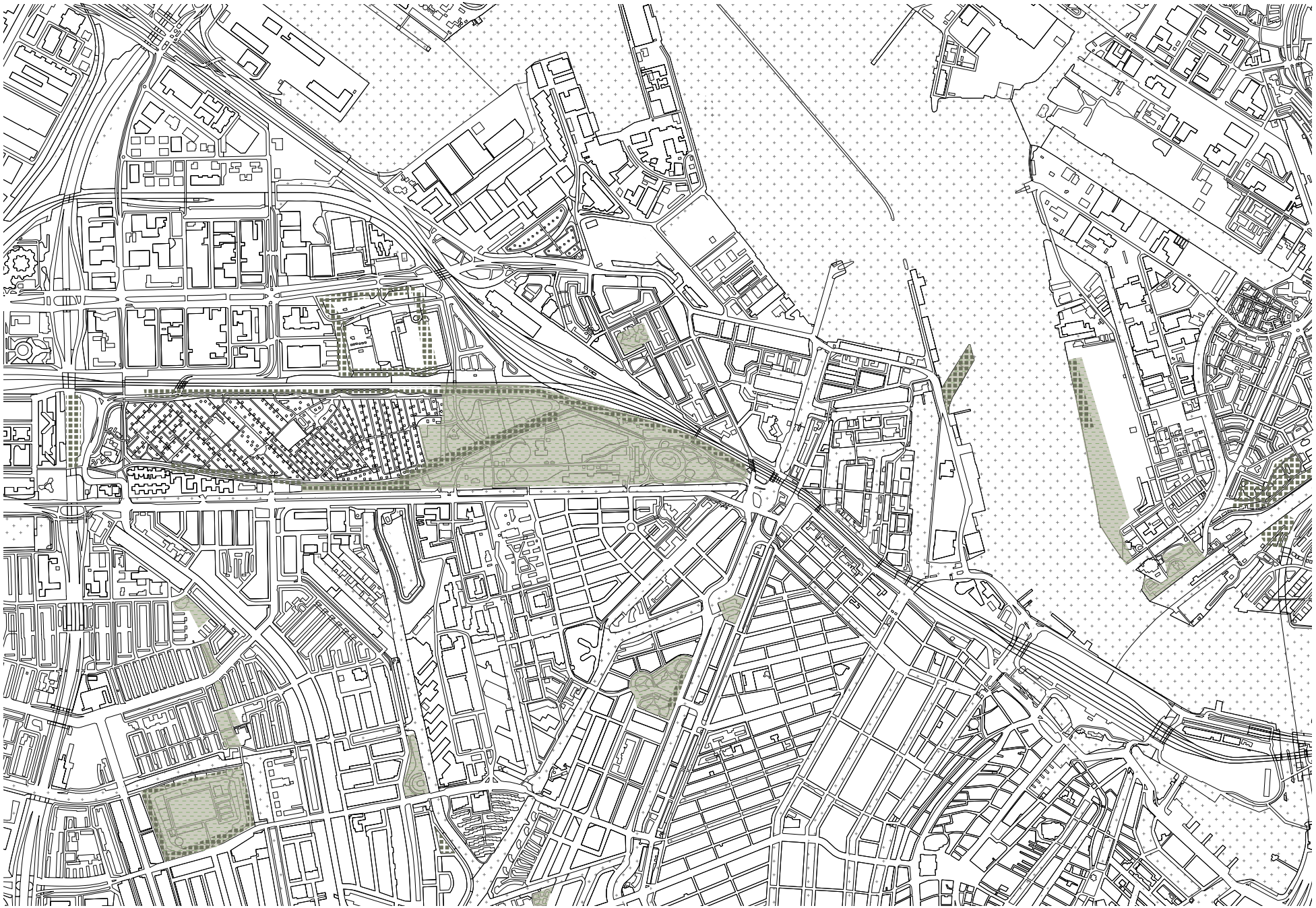


Public Parks/Green Areas

0 100 300 500

photographed by Sara Swida

rock fern on the quay wall

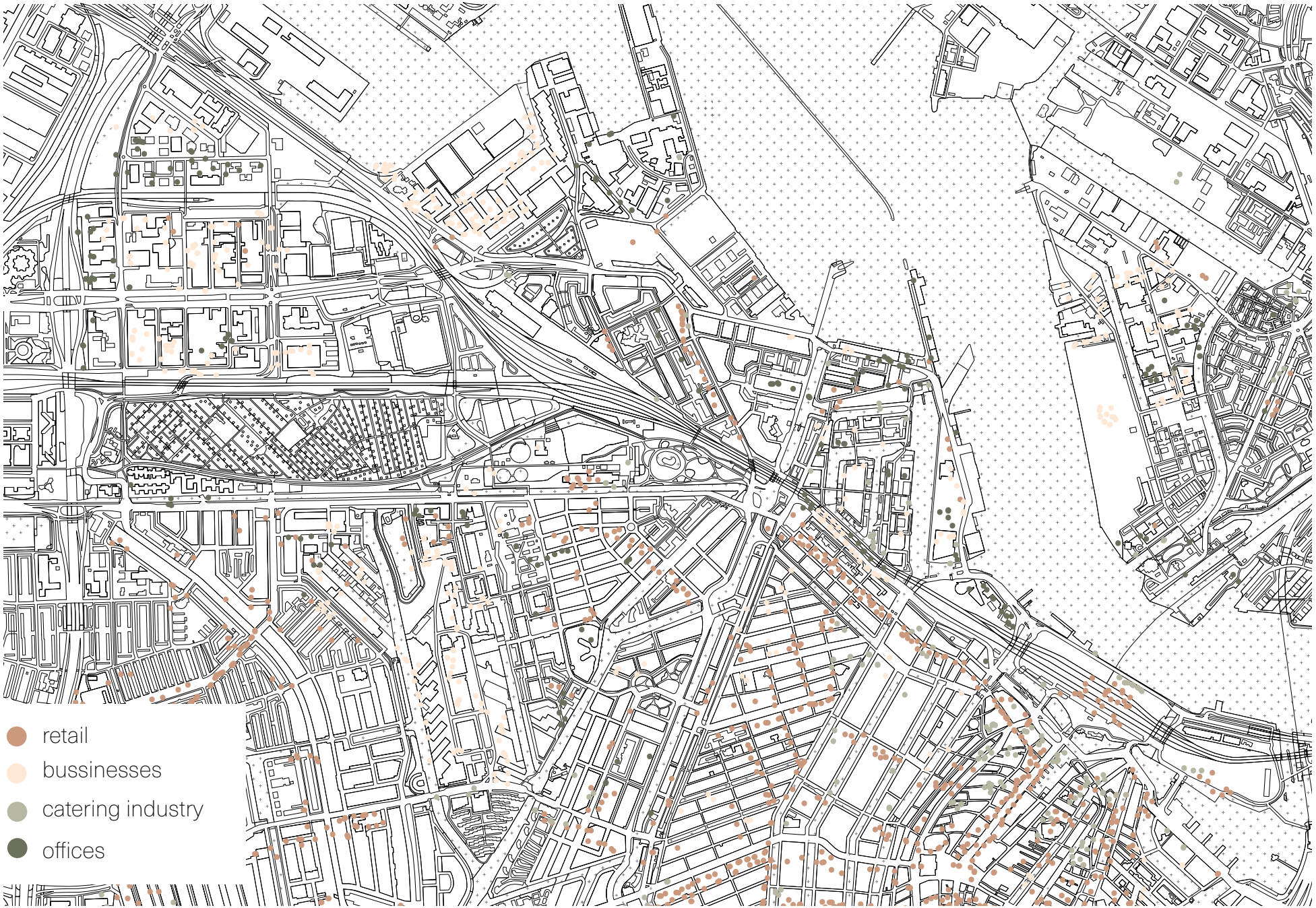


Public Parks/Green Areas - dog ‘run free’ zones

0 100 300 500

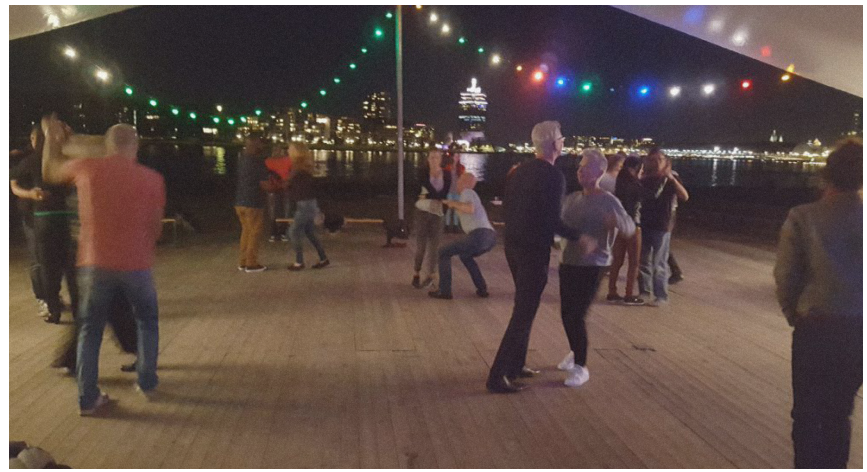
photographed by Sara Swida

dog walker

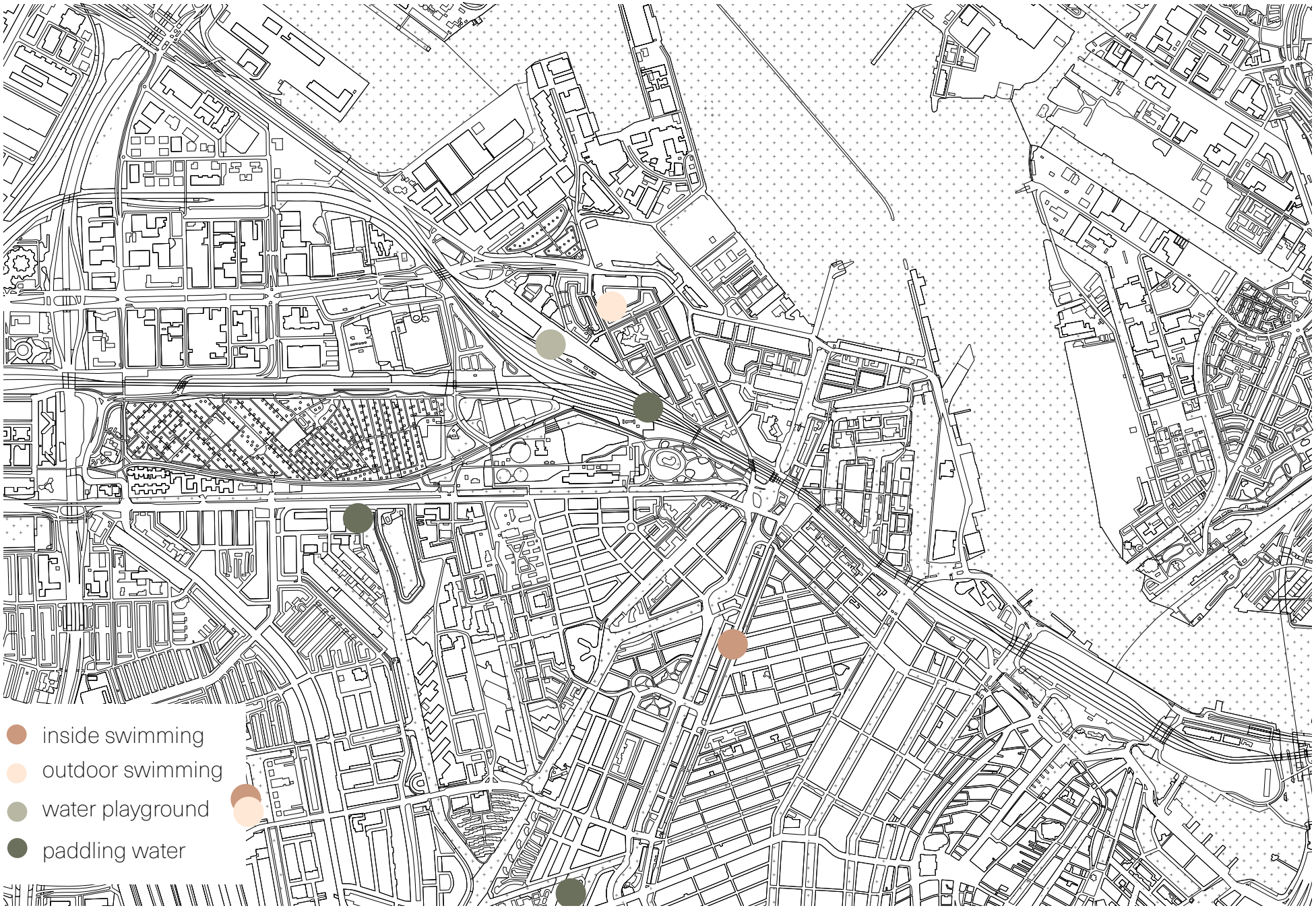


Non- residential functions

0 100 300 500



summer events



Public swimming spots

https://www.odetothewilderness.com/the-weeping-elephant/

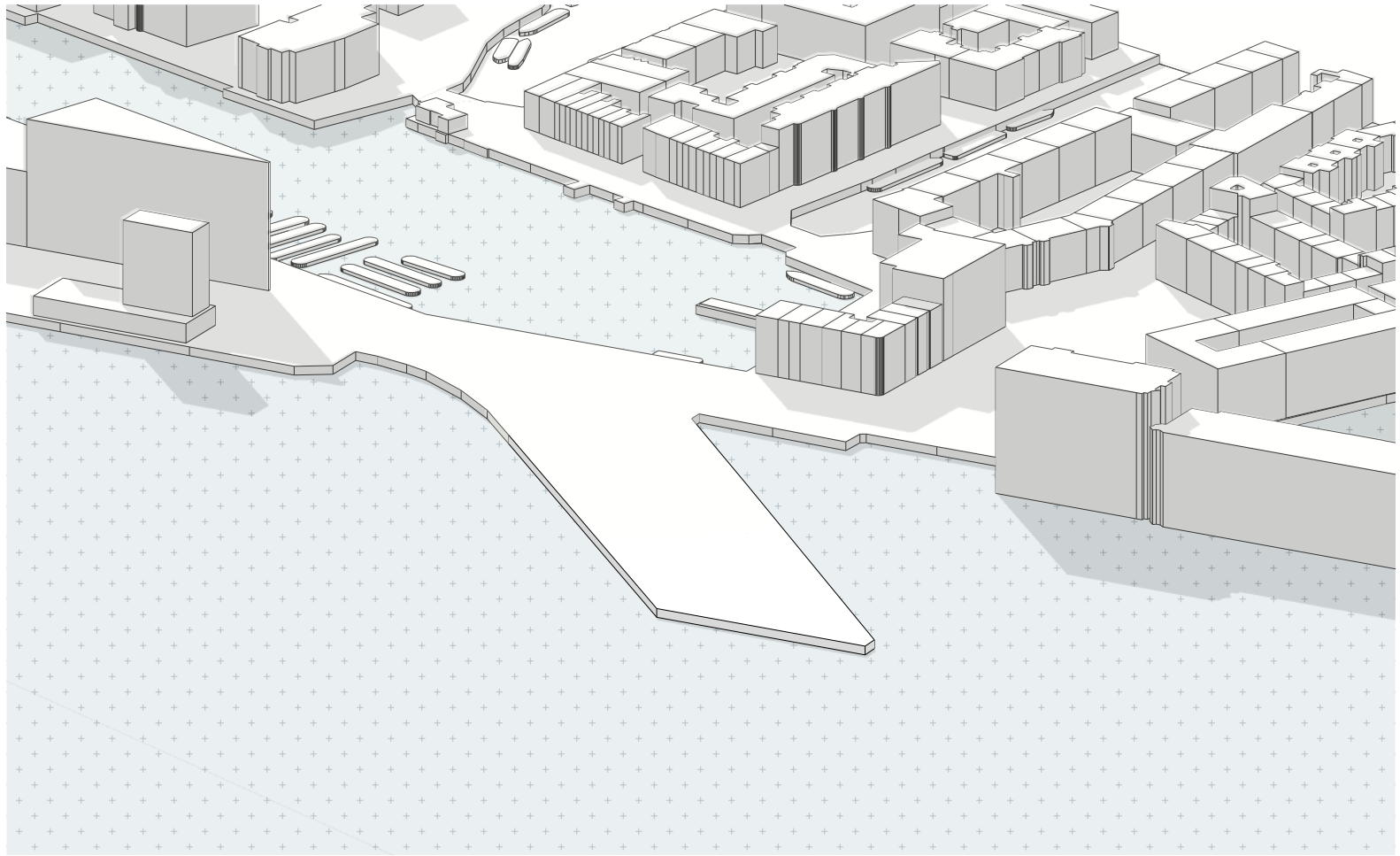
Stenen Hoofd as an unofficial beach

https://www.flickr.com/photos/8725928@N02/3795044995

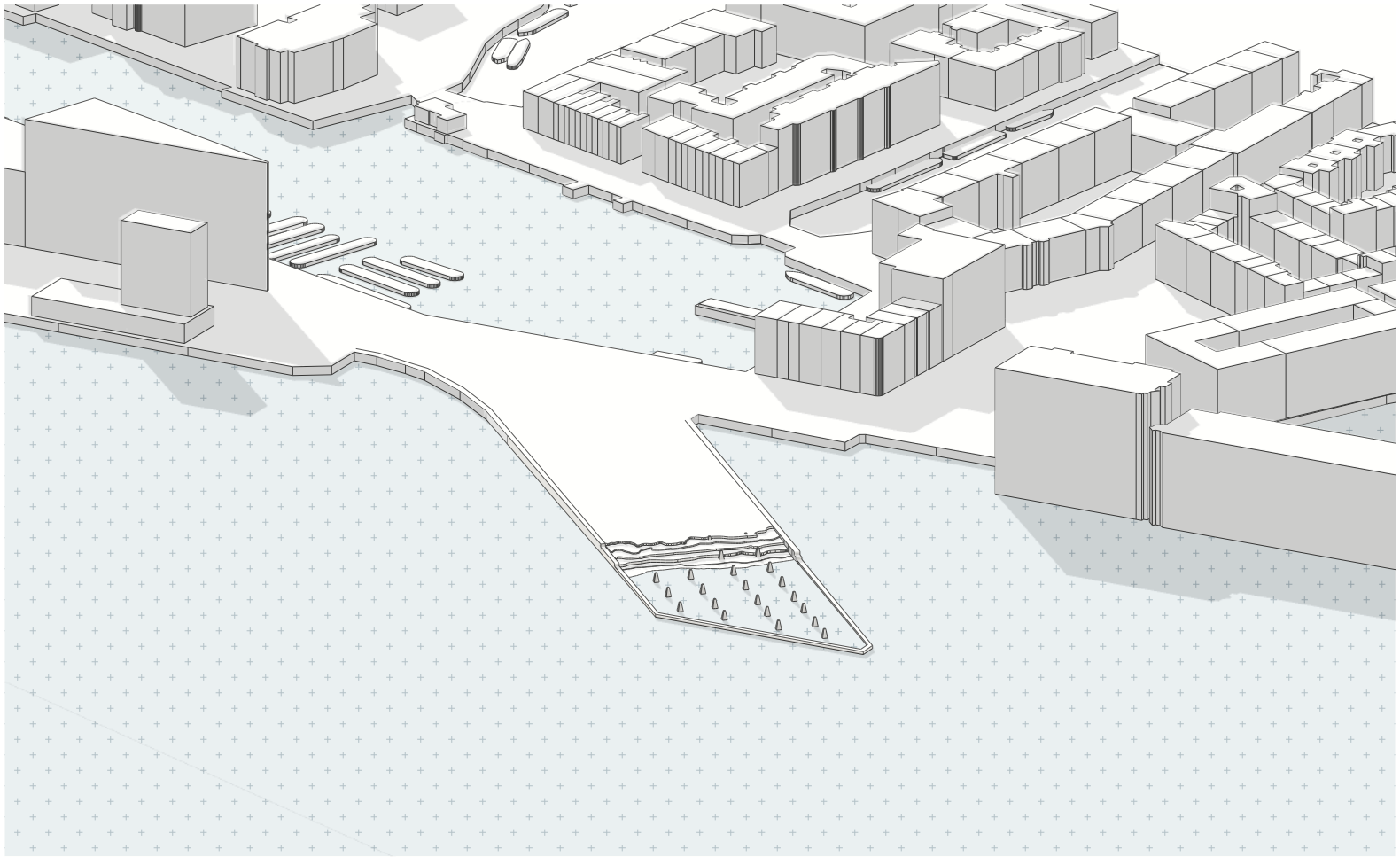
Scheveningen pier ca. 1930

https://www.travelandleisure.com/travel-guide/copenhagen/things-to-do/københavns-bymuseum

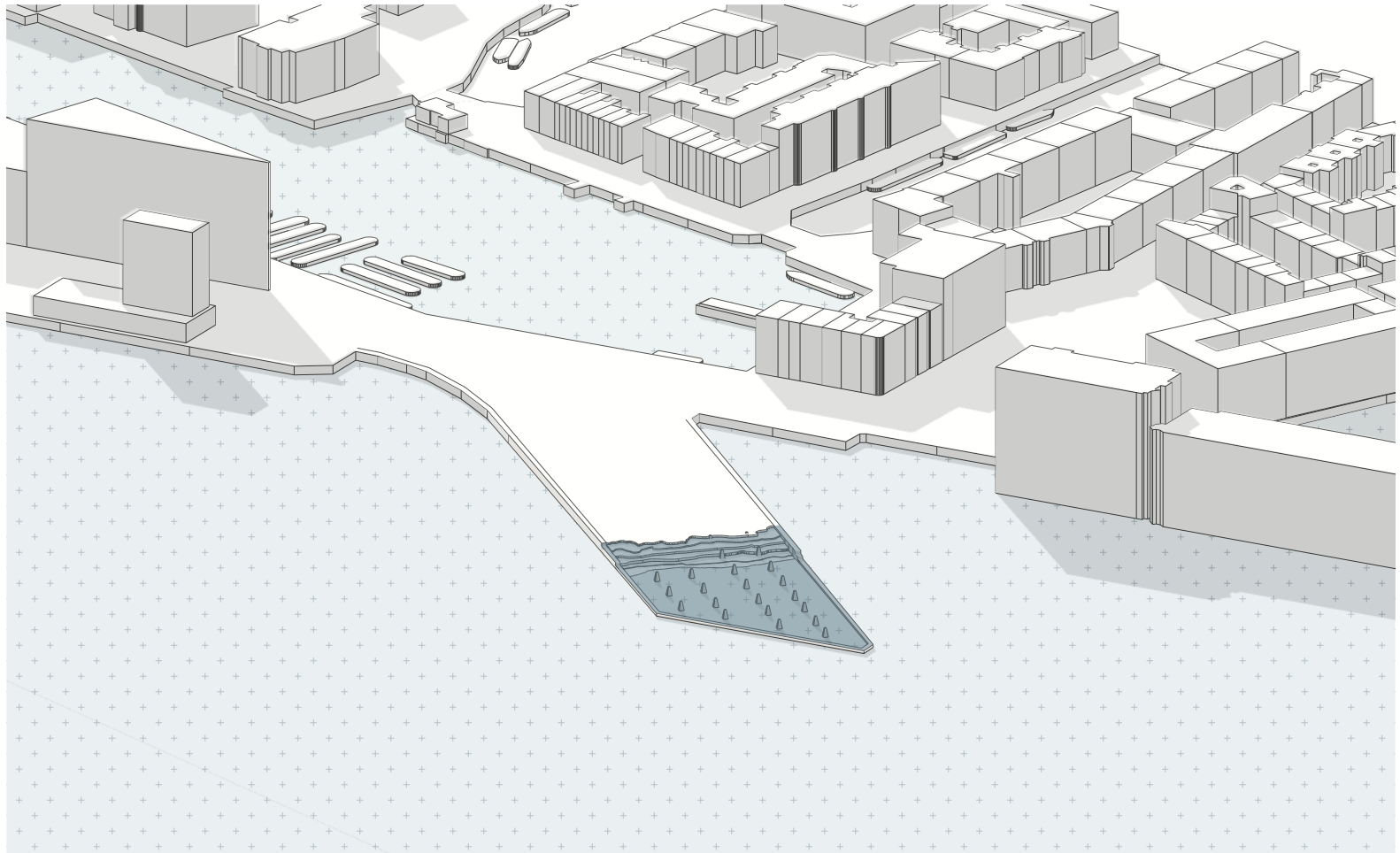
Kastrup Sea Bath 2004



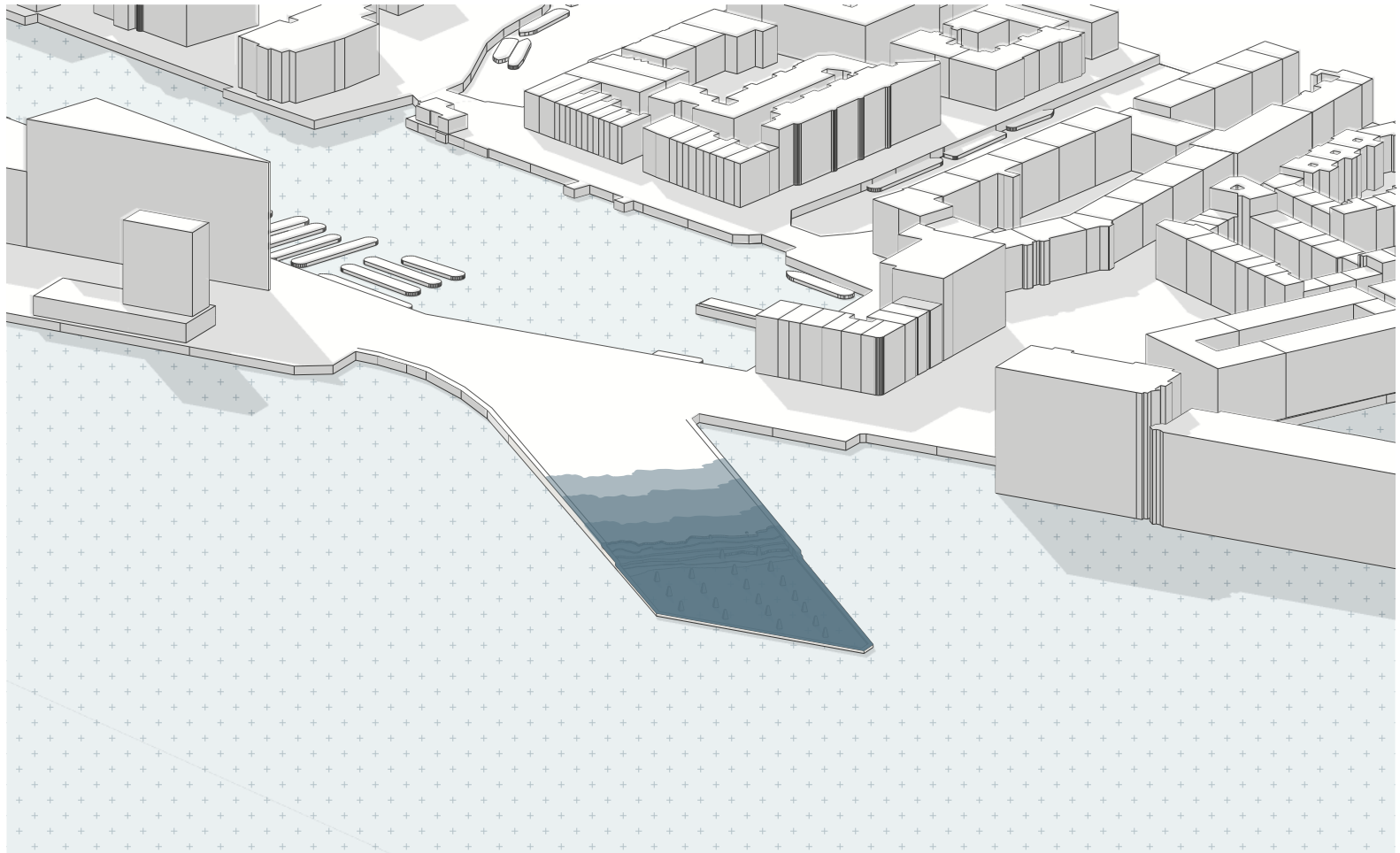
Stenen Hoofd original pier



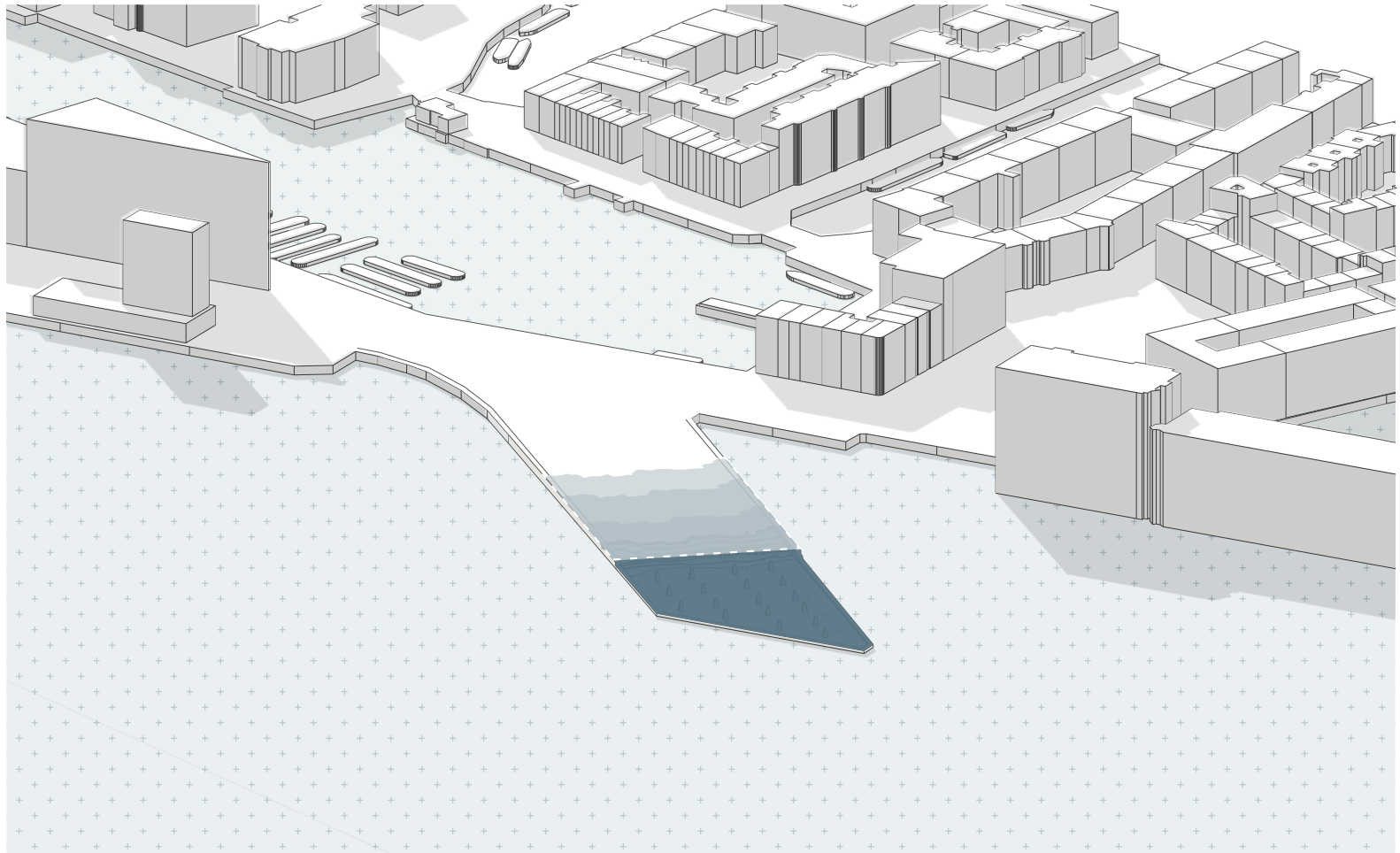
Stenen Hoofd washed away pier



Stenen Hoofd pier wetpoint



Stenen Hoofd pier future prognosis

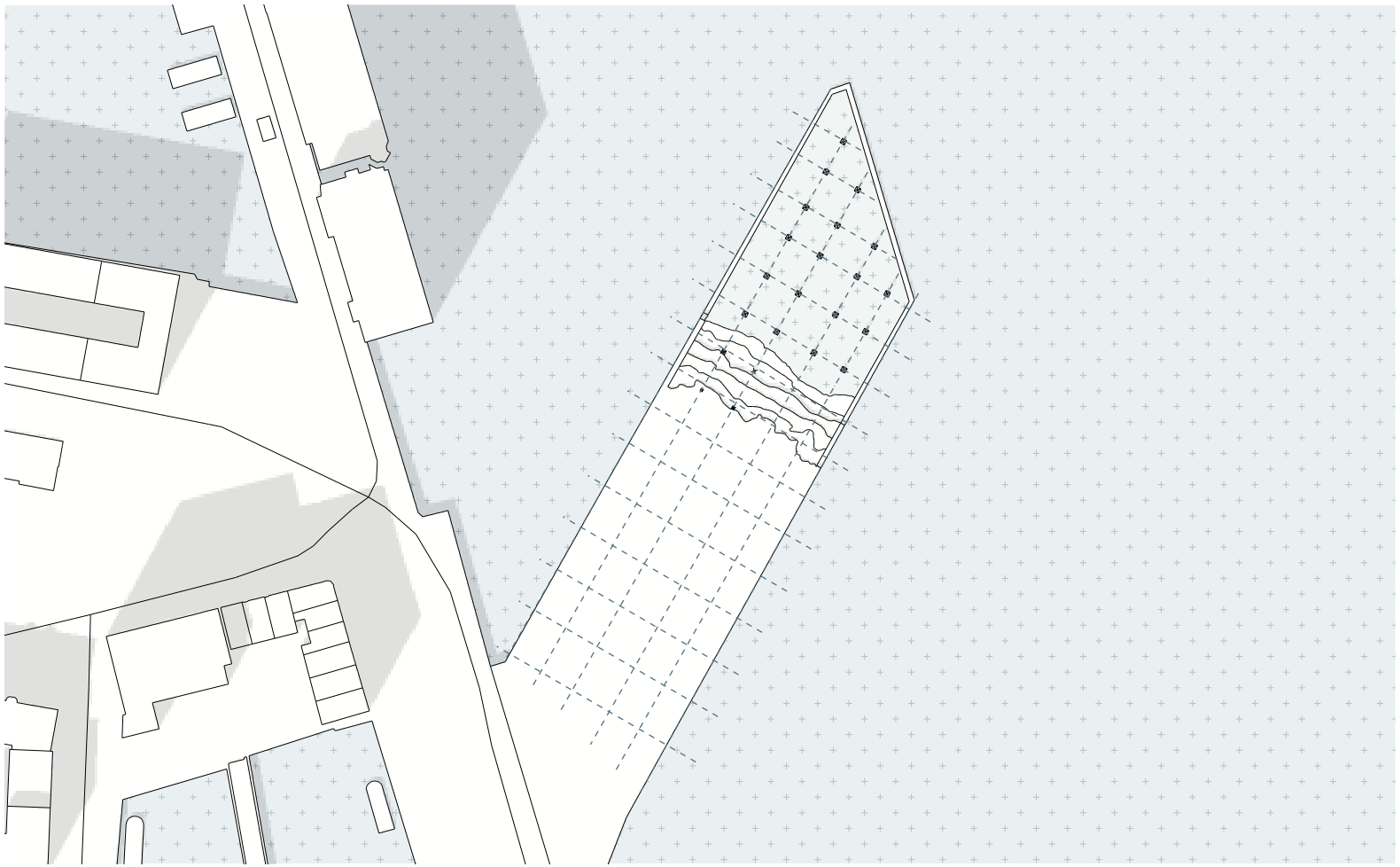


Stenen Hoofd pier place of intervention

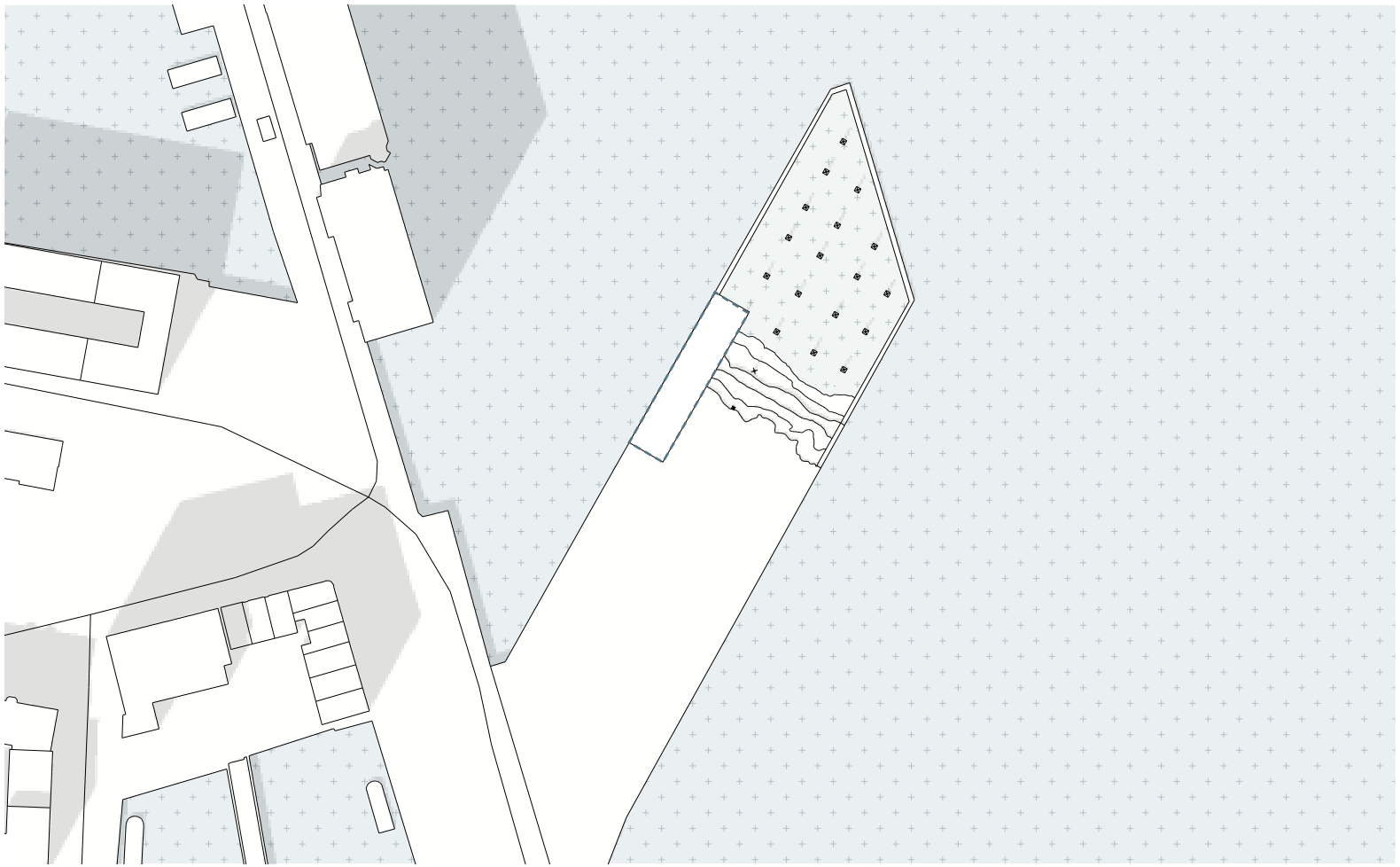
the pier is given back to the people

to enjoy a holiday inside the city
with a unique view , biodiverse environment and a
place for social interaction

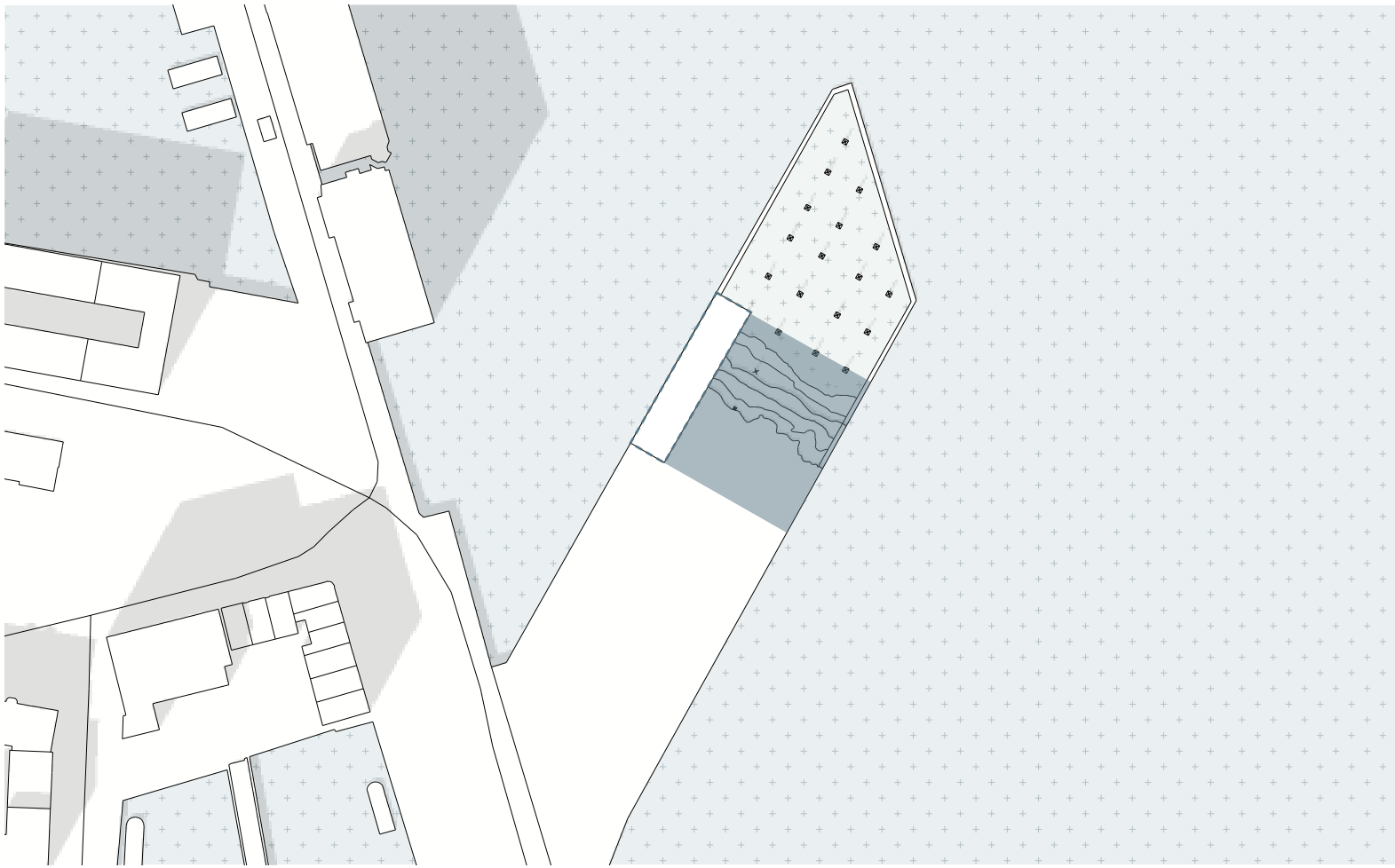
it is supporting the idea of preserivng what's already
there, rather than demolishing and building from
scratch



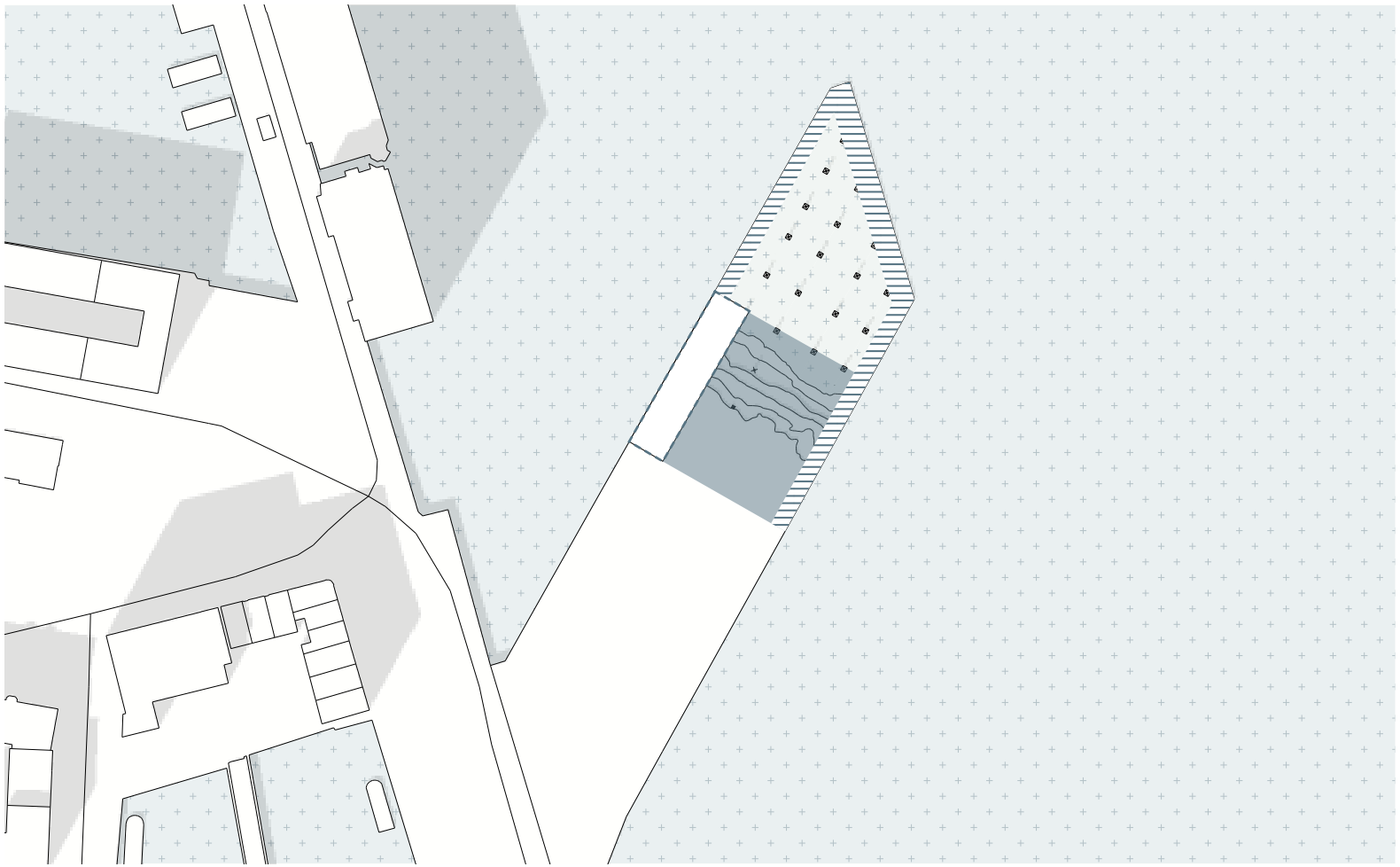
structural grid



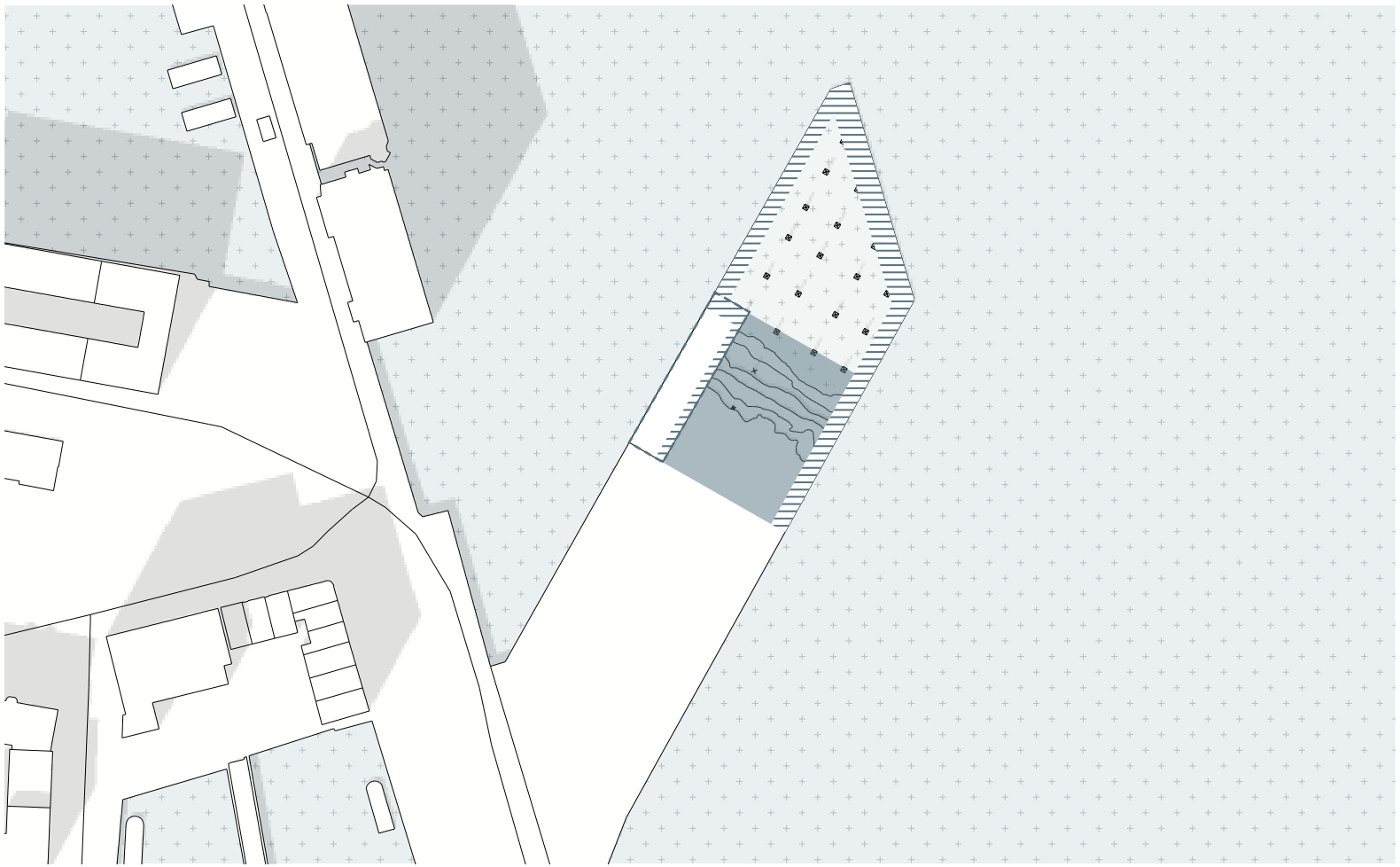
building volume



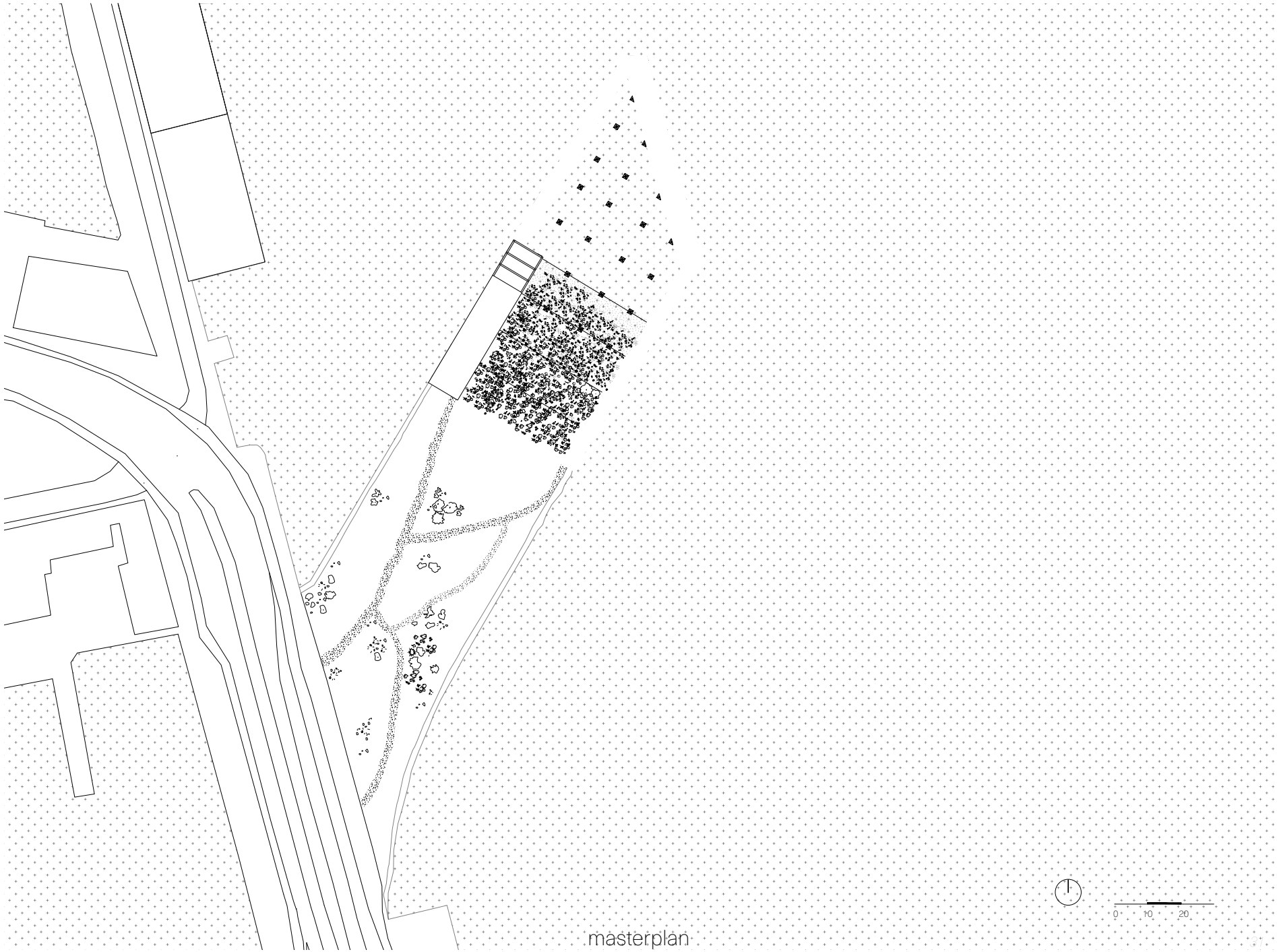
wetland



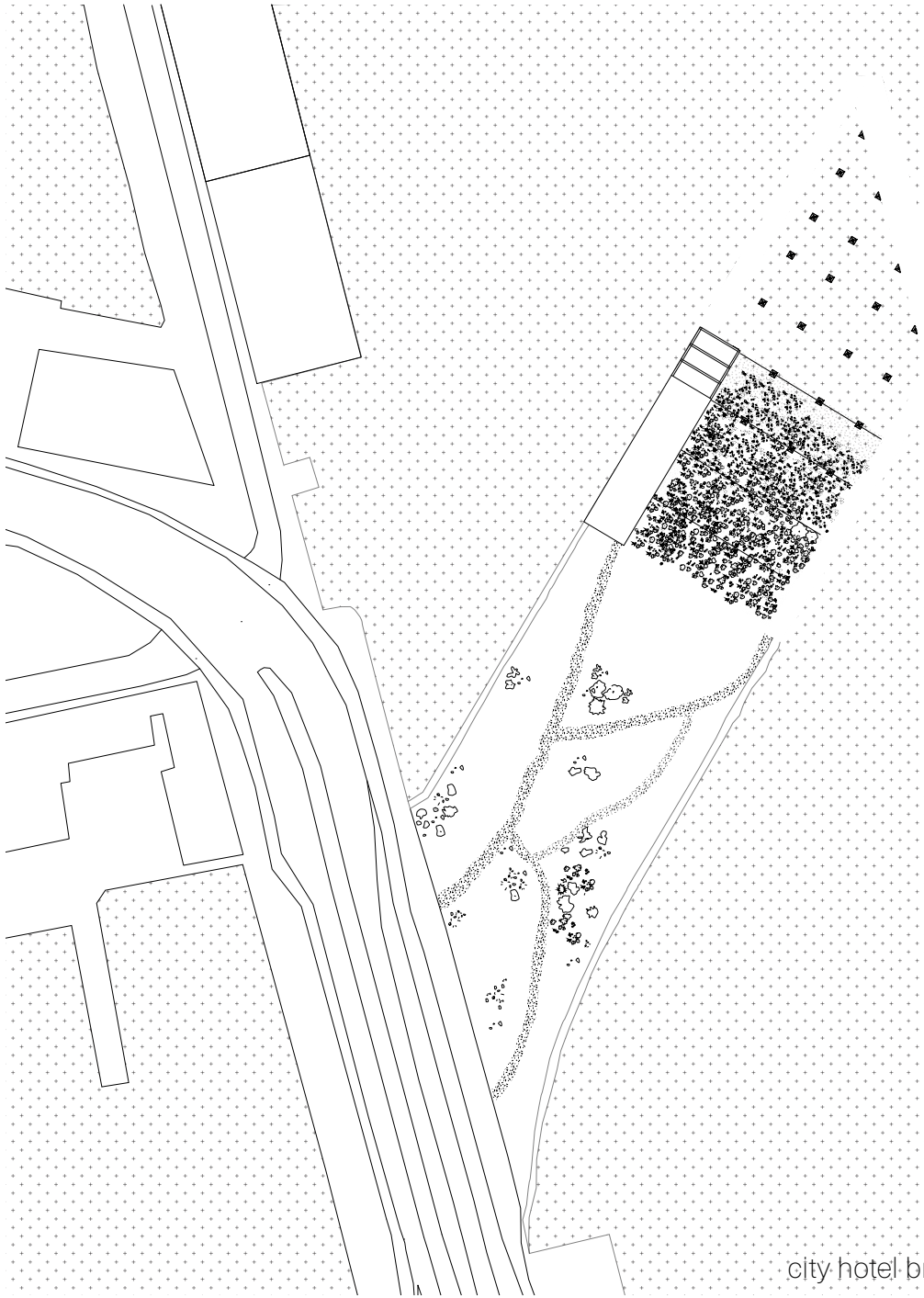
board walk



gallery connection



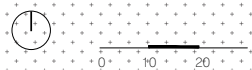
masterplan



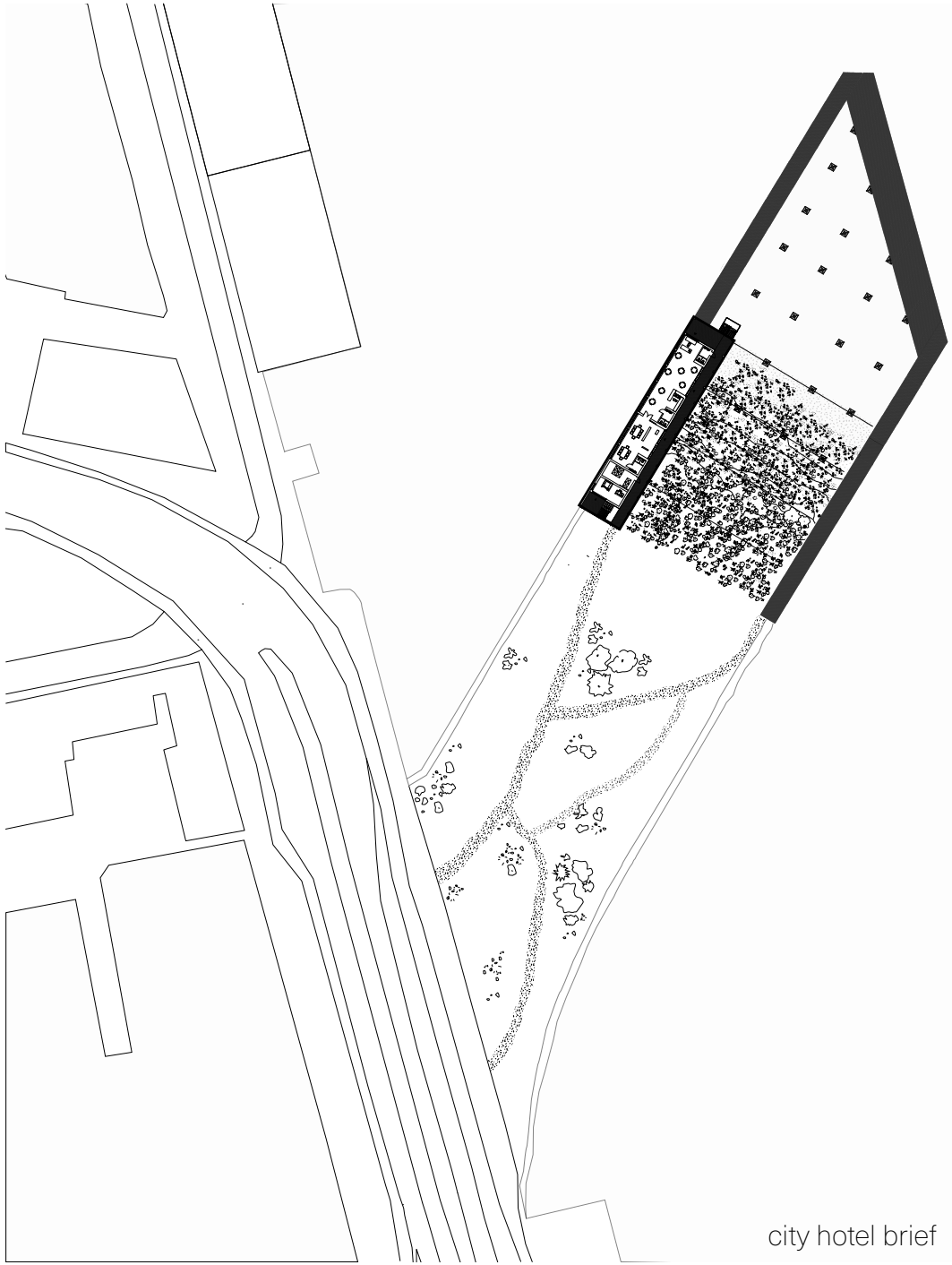
hotel:
- four floors of the hotel space with different standard rooms ca. 240 m^2 per floor
-reception/lounge space 25 m^2 per floor

community:
-workshop space, gallery 80 m^2

public:
- cafe ca. 360 m^2
- rooftop cafe ca. 60 m^2



city hotel brief



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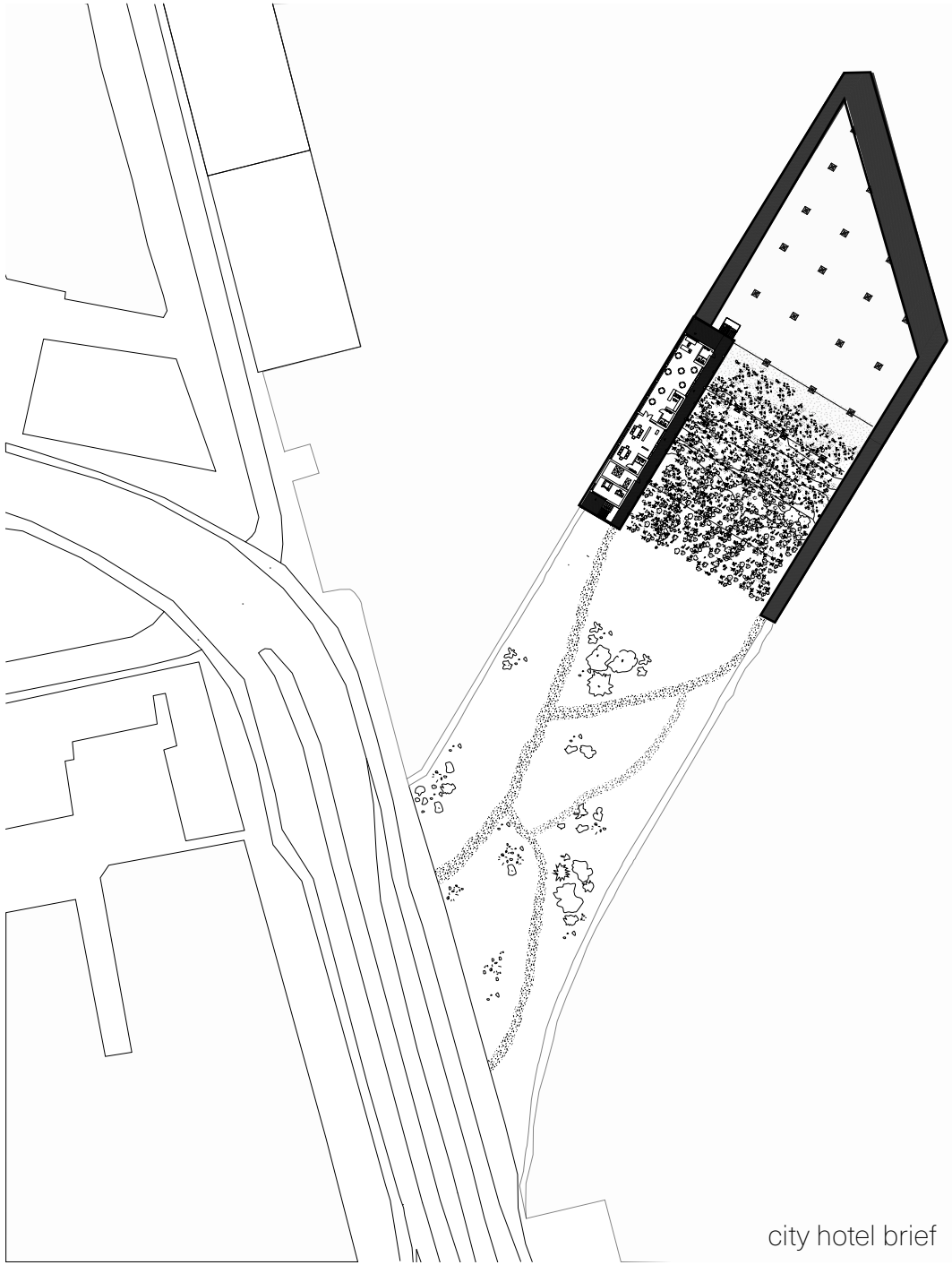

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- pier deck ca. 700 m^2

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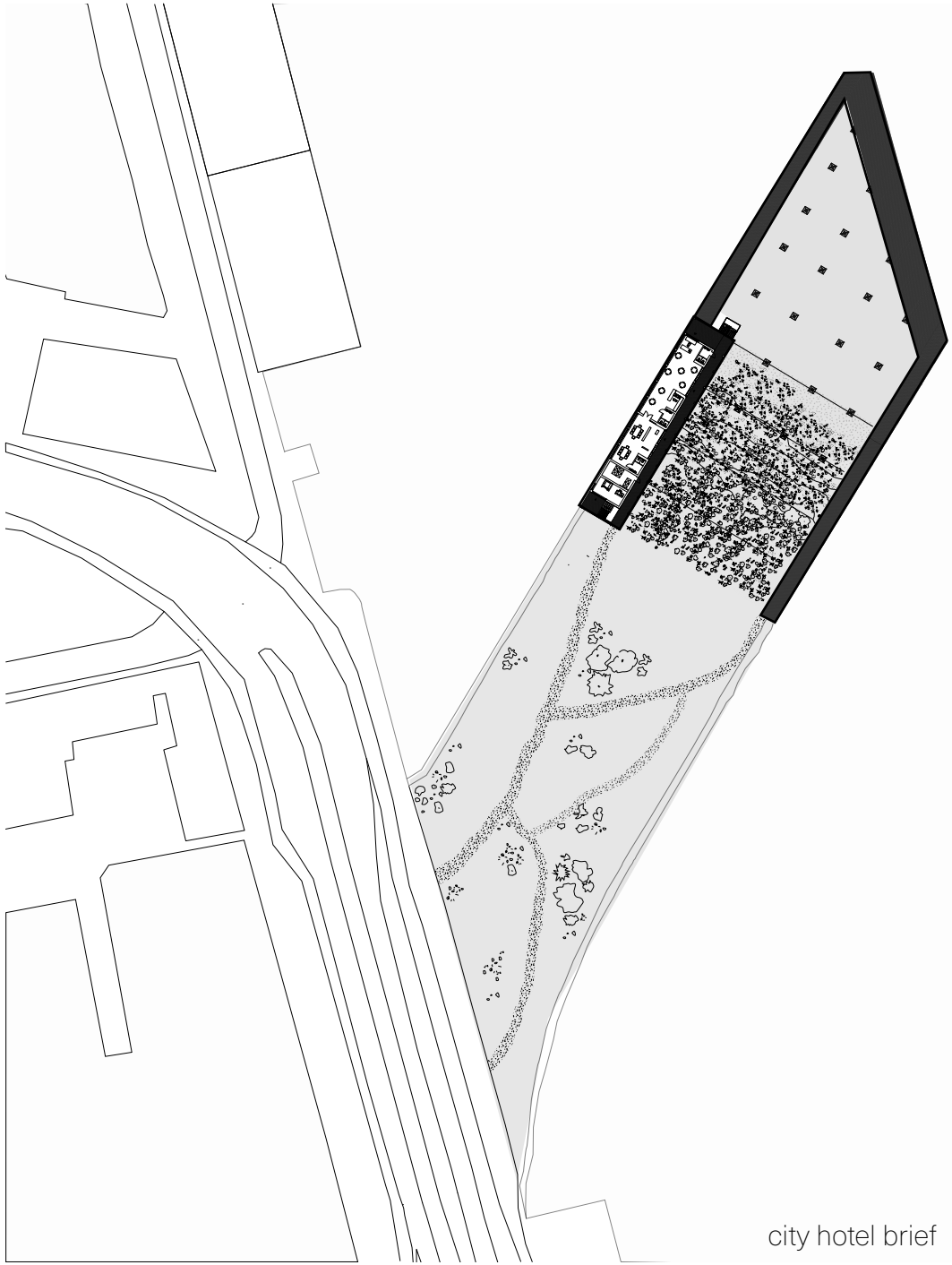
city hotel brief



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public:
- cafe ca. 360 m^2
- rooftop cafe ca. 60 m^2

- pier deck ca. 700 m^2

biodiversity:

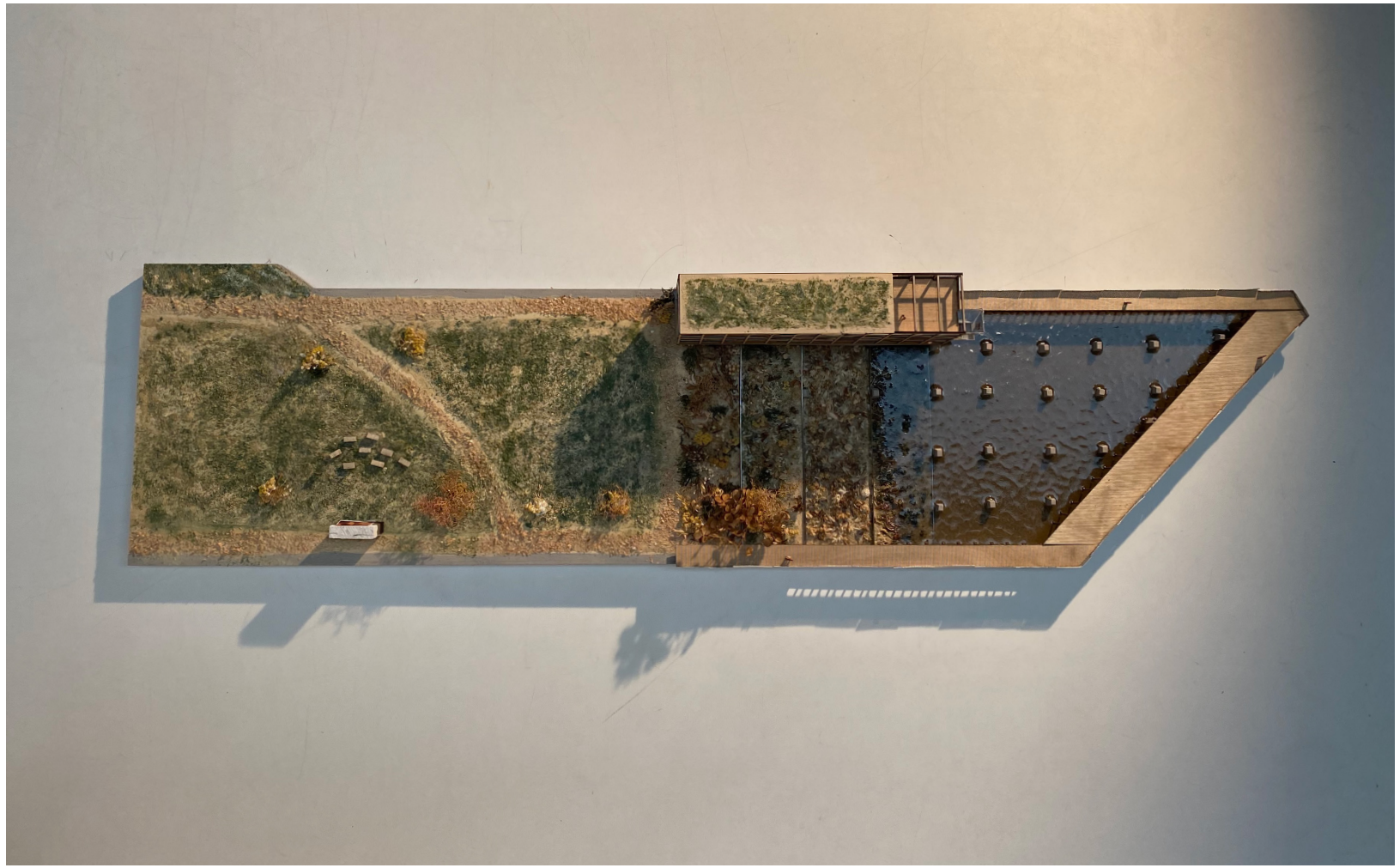
- wetland 1200 m^2

- natural swimming pool ca. 2800 m^2

- sedum roof 340 m^2
- park ca. 2600 m^2

0 10 20

city hotel brief



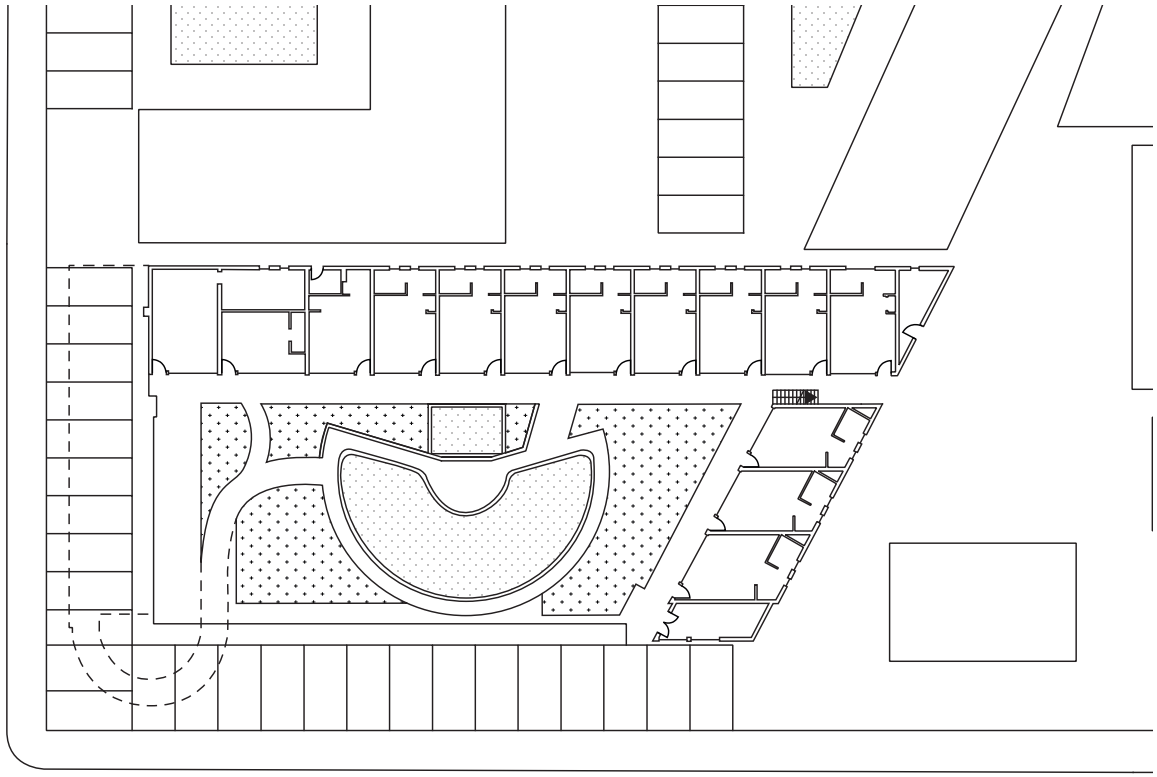
masterplan as a model

city hotel

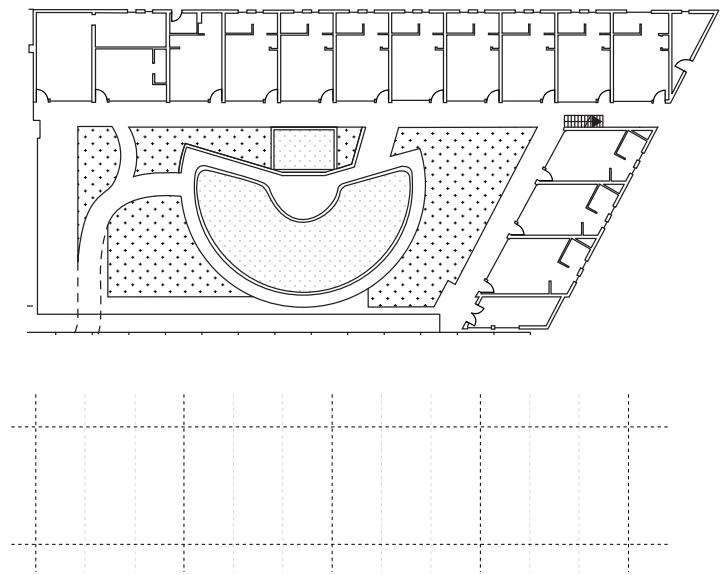
https://en.wikipedia.org/wiki/Bed-ins_for_Peace

Caribbean Motel Pool, Aladdin Color, Tybus, New Jersey

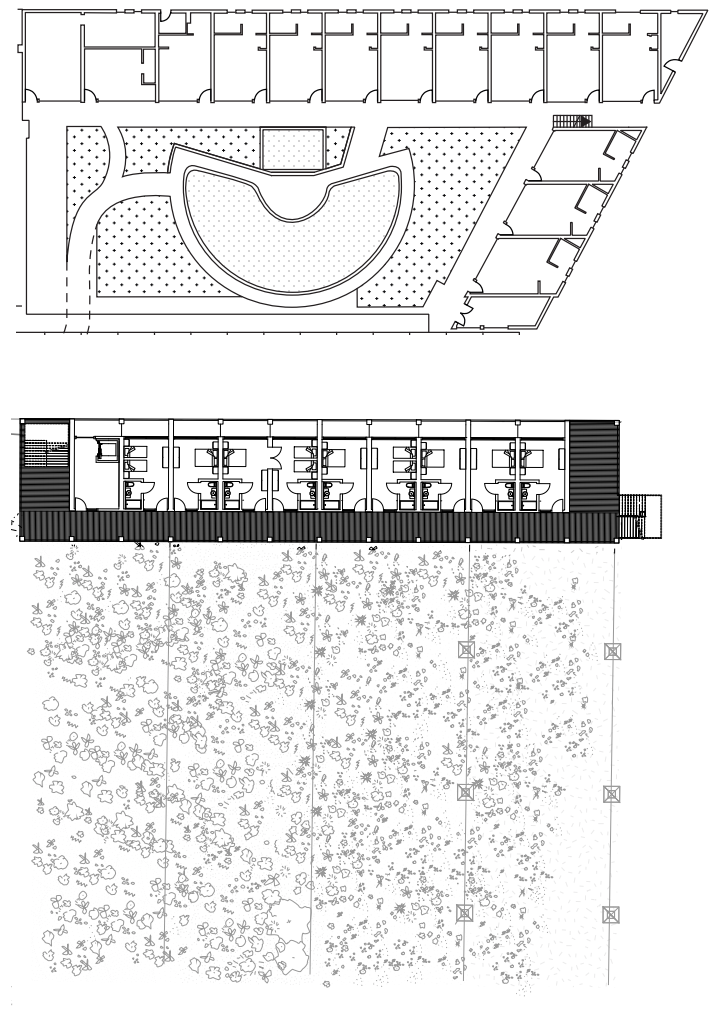
Motel Typology



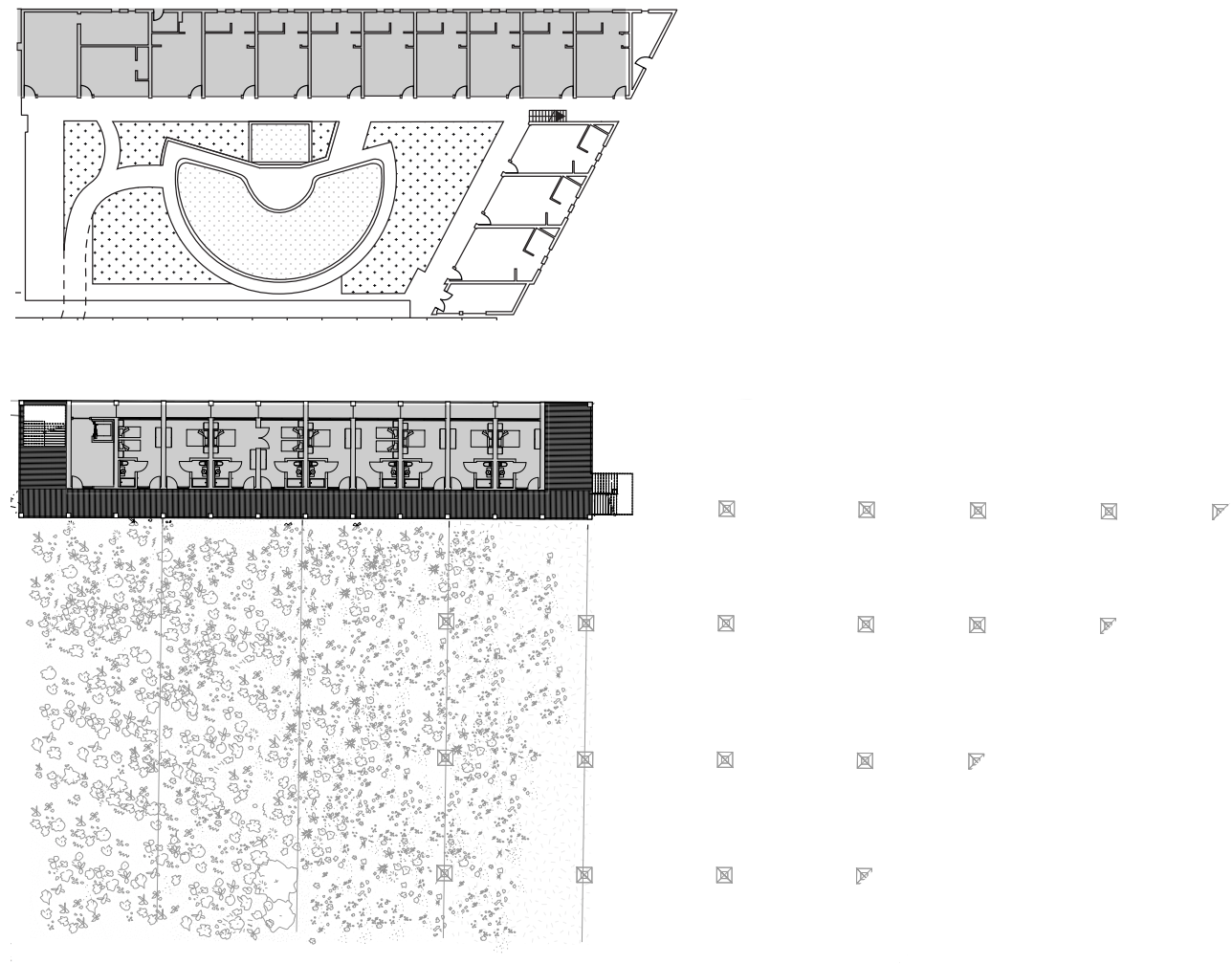
Motel Typology



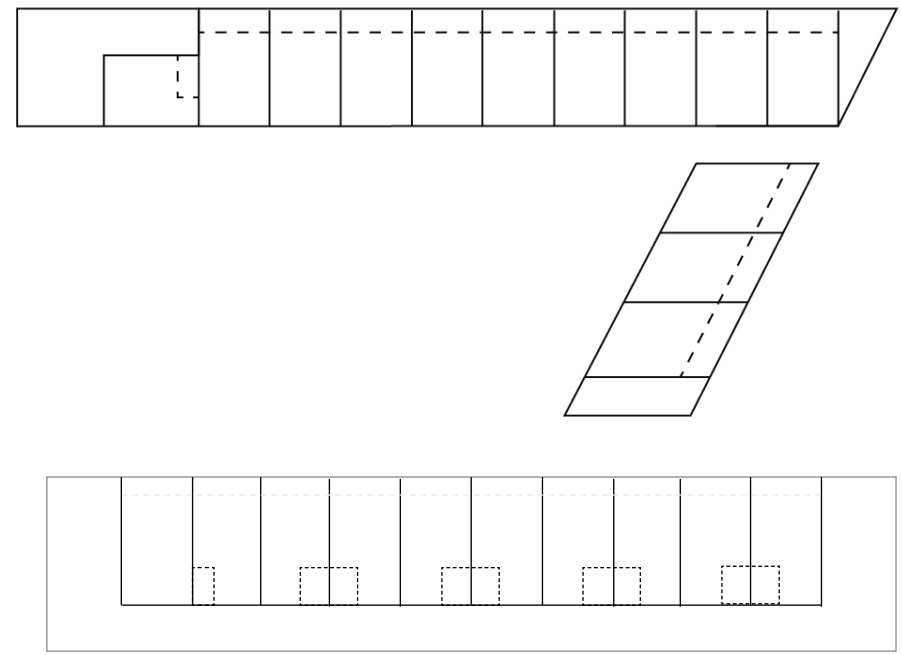
City Hotel / Caribbean Motel grid



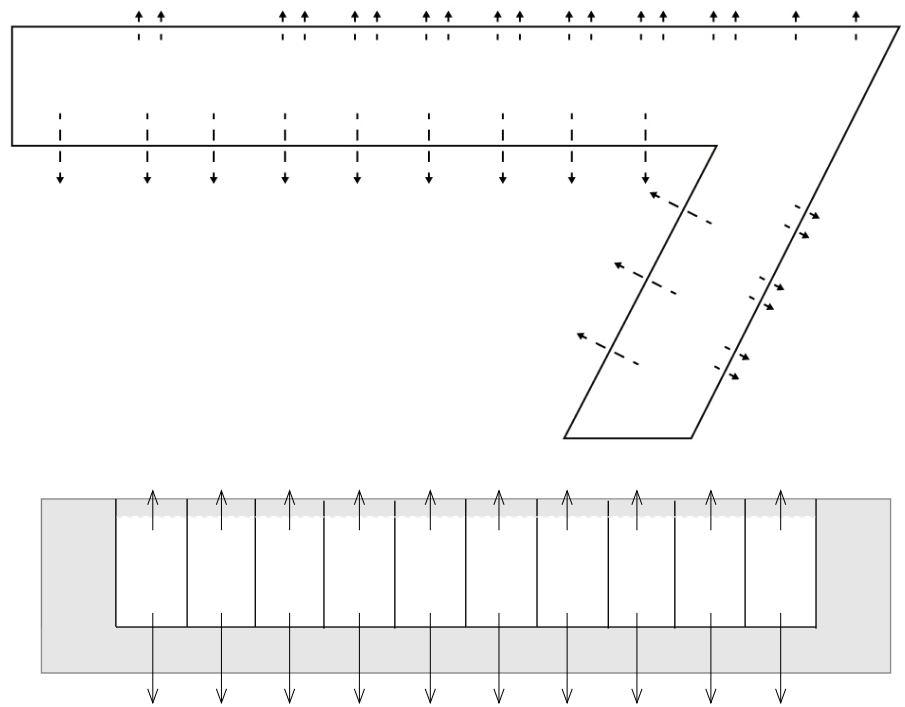
City Hotel / Caribbean Motel typology



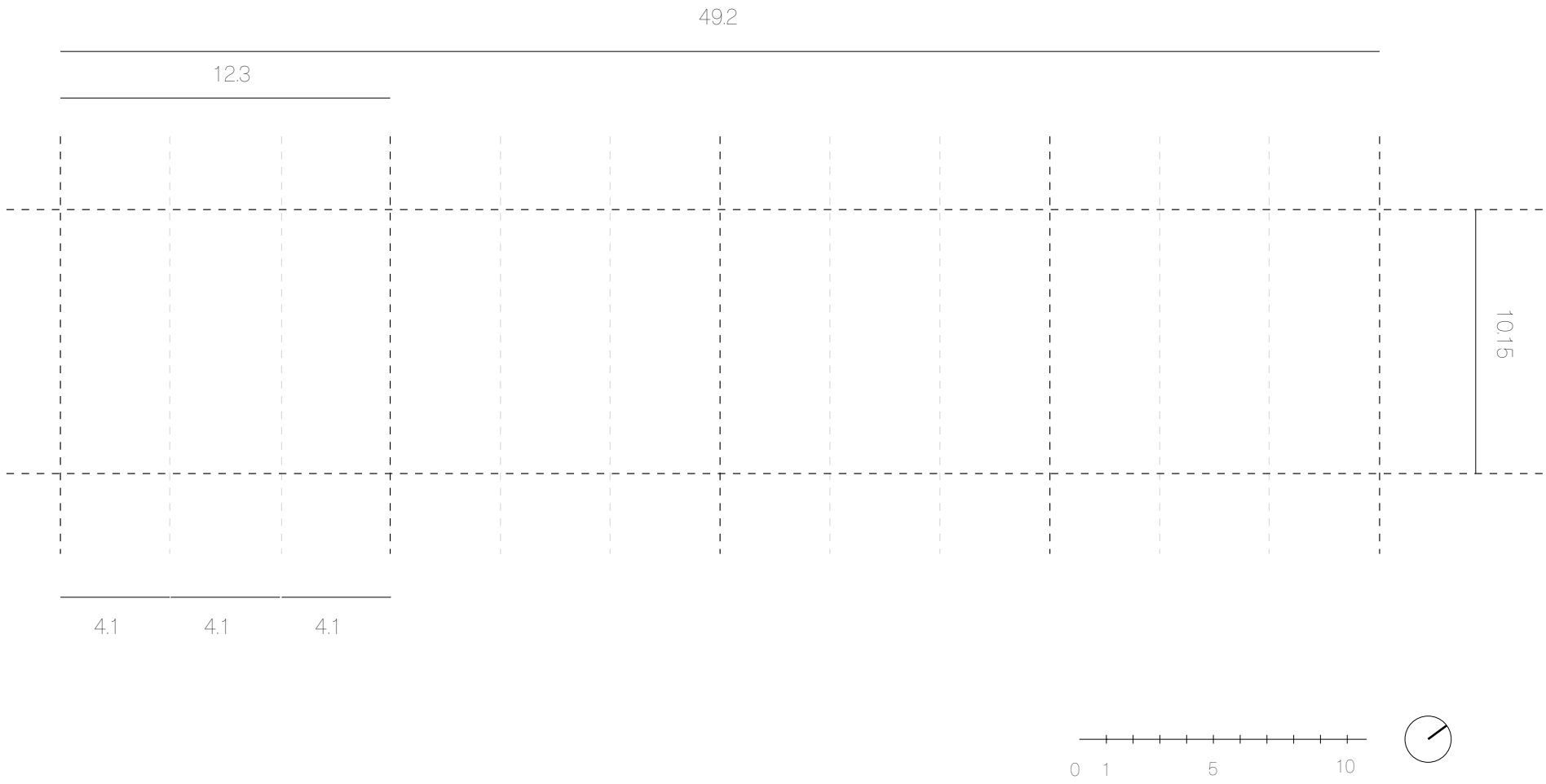
City Hotel / Caribbean Motel typology



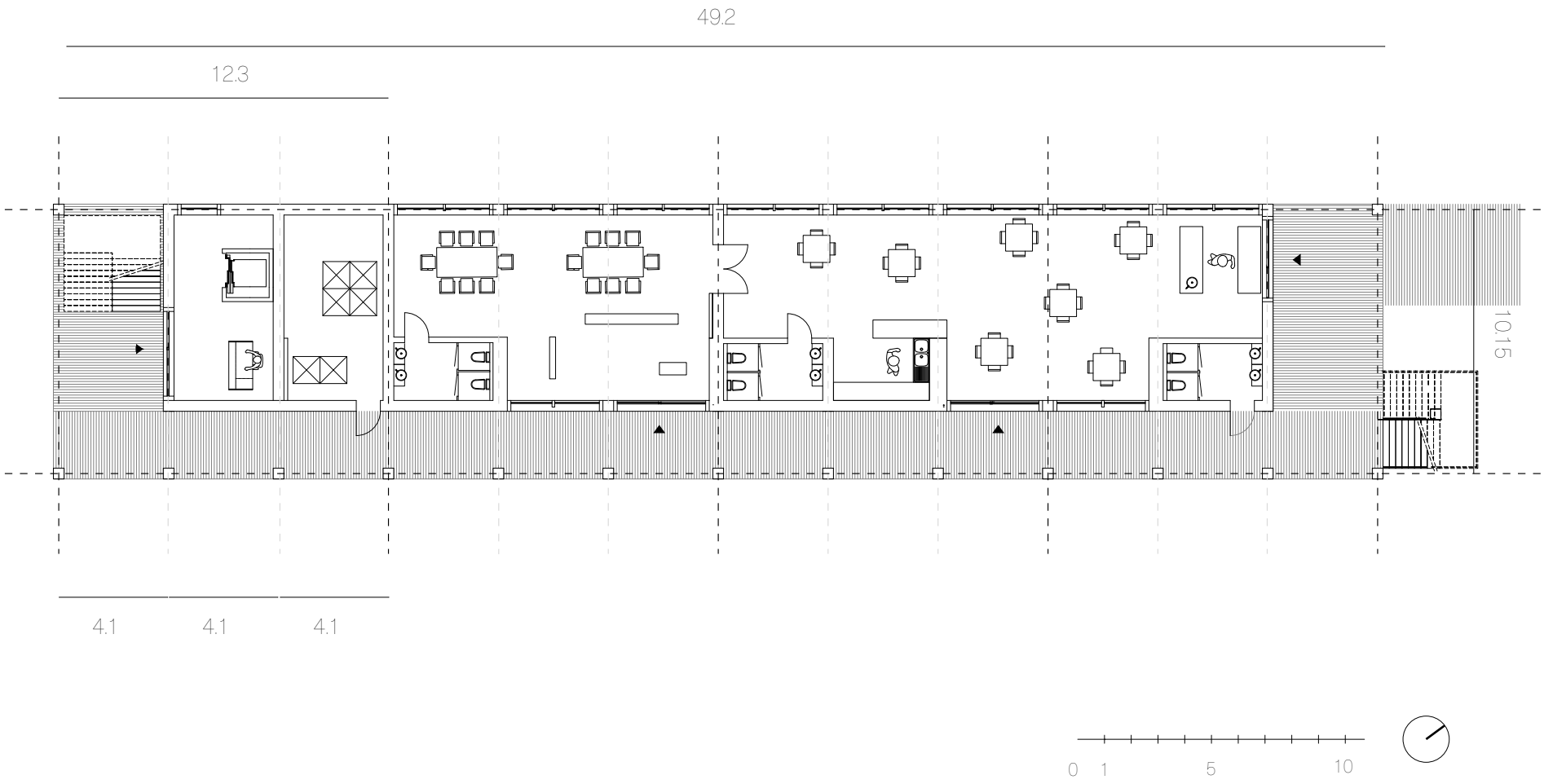
City Hotel / Caribbean Motel room division



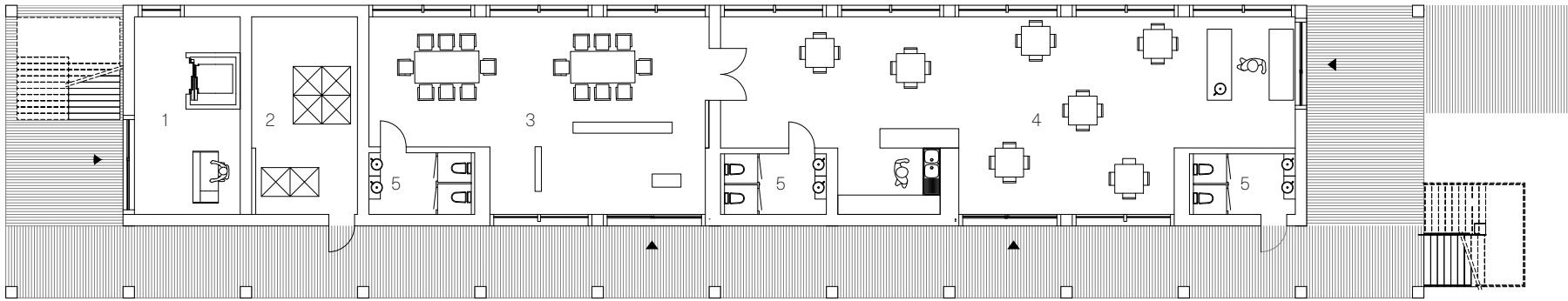
City Hotel / Caribbean Motel room orientation



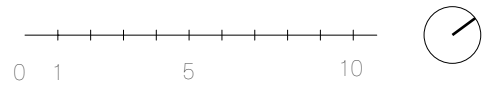
floor plan grid



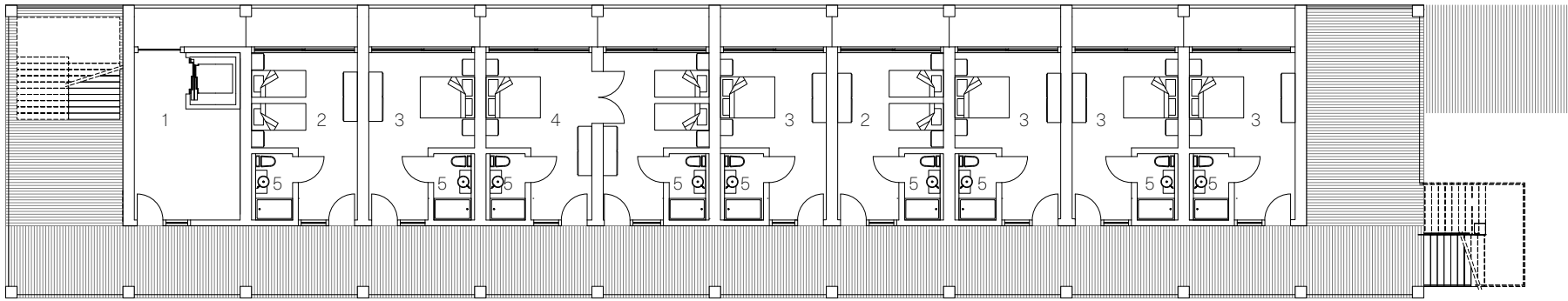
floor plan ground floor



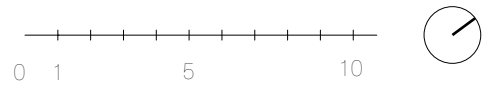
1. reception
2. technical room
3. gallery/workshop space
4. cafe
5. bathroom



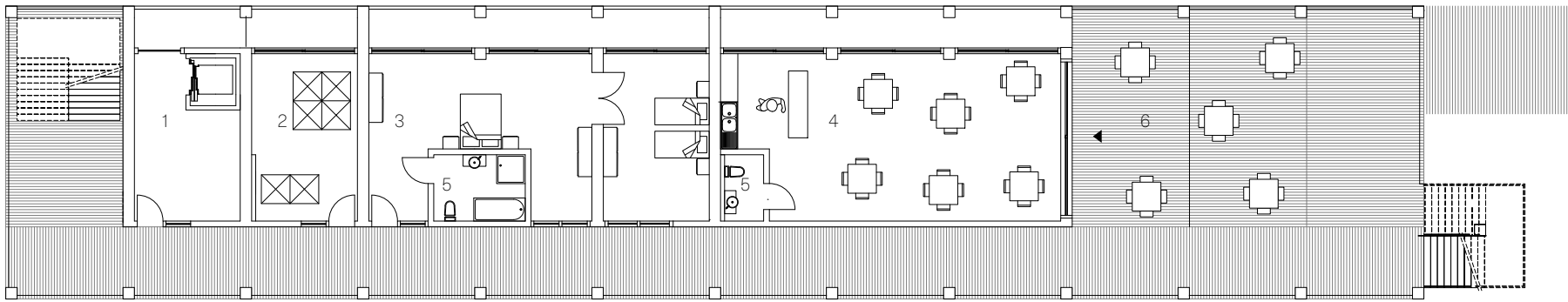
floor plan ground floor



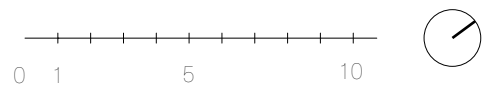
1. reception/lounge room
2. double room single beds
3. double room double bed
4. family room
5. bathroom



floor plans 1-4



1. reception/lounge
2. technical room
3. penthouse apartment
4. rooftop cafe
5. bathroom
6. outdoor terrace



floor plan top floor

Herzog de Meuron residential building Basel - gallery

Herzog de Meuron residential building Basel - gallery

city hotel stenen hoofd gallery

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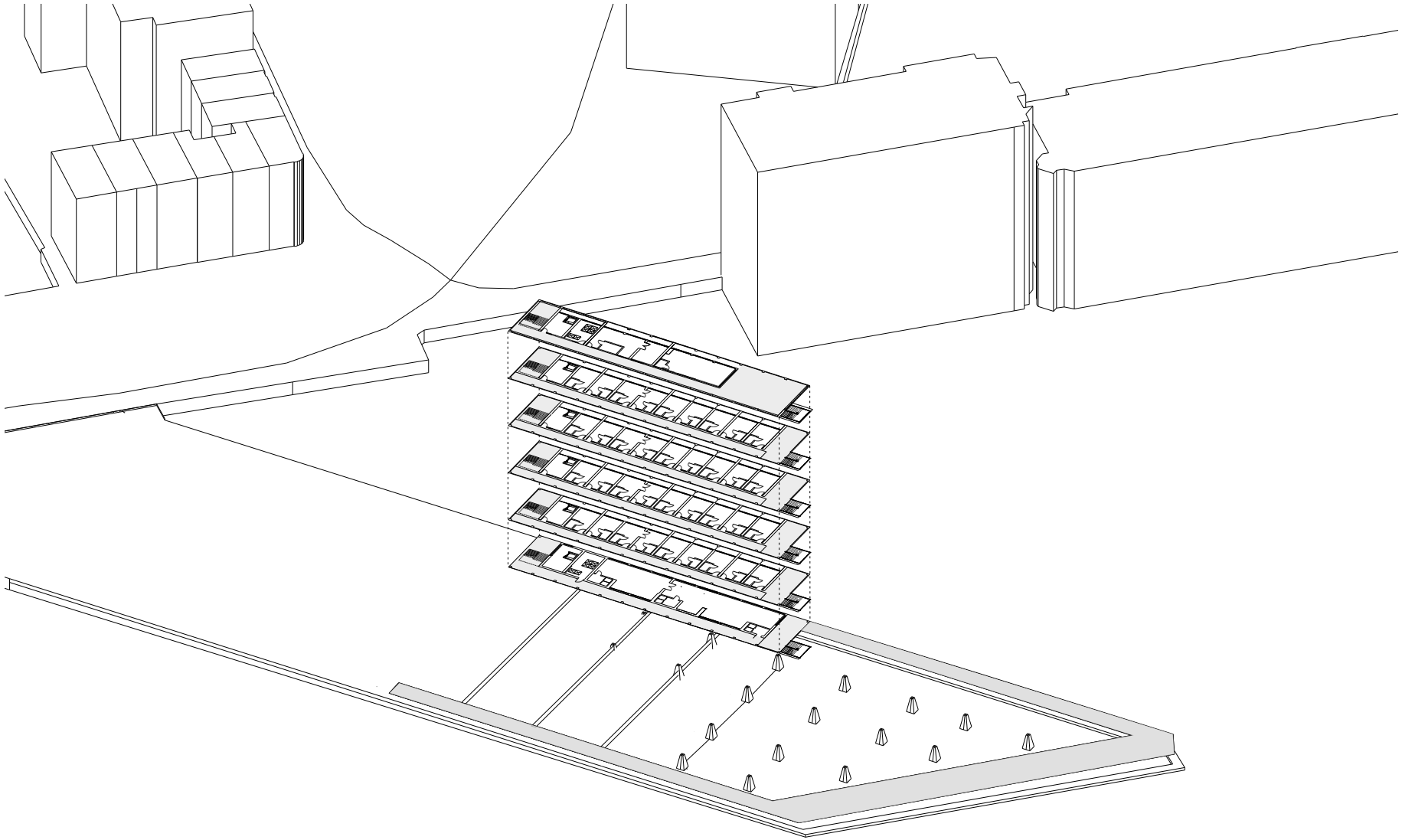
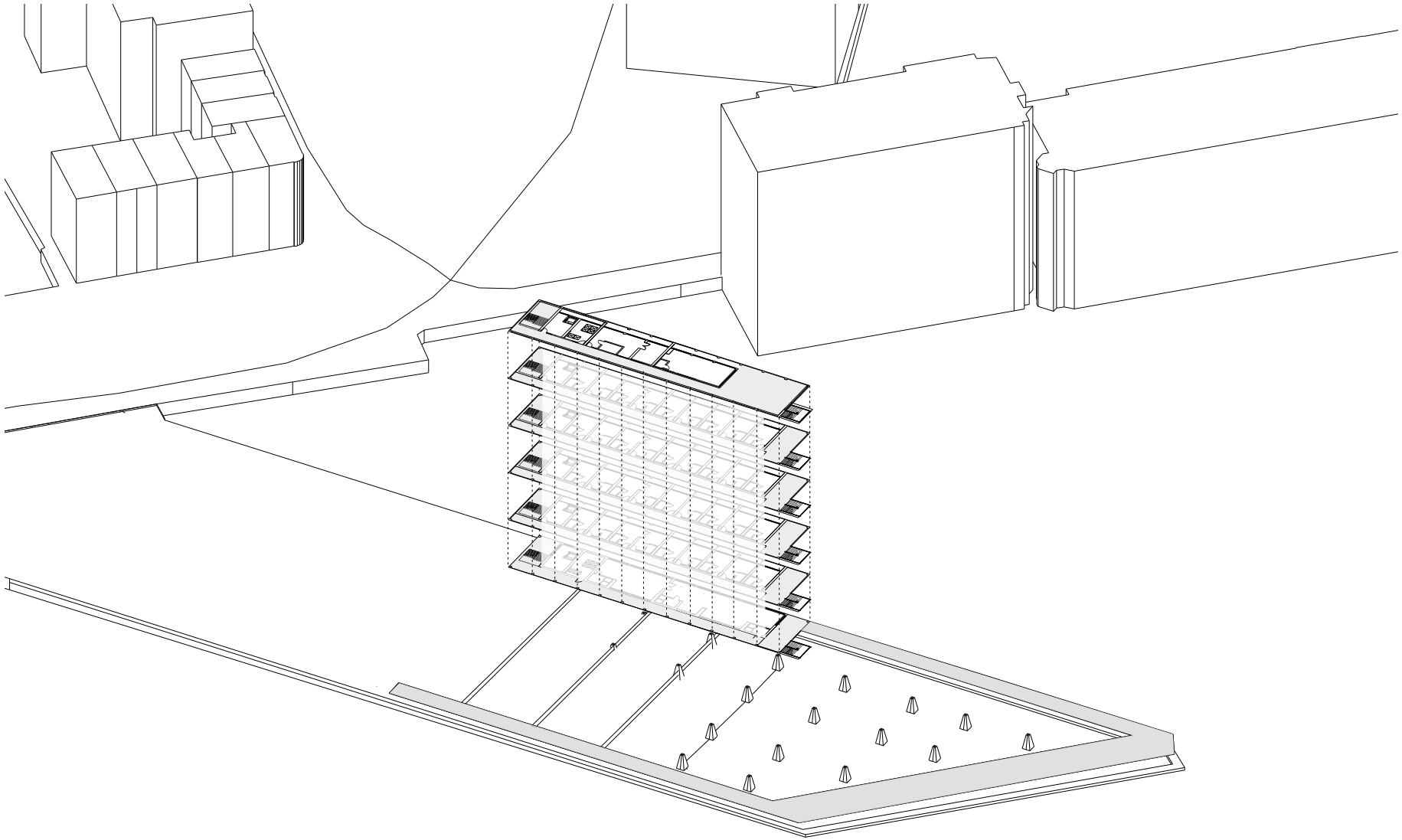


circulation diagram



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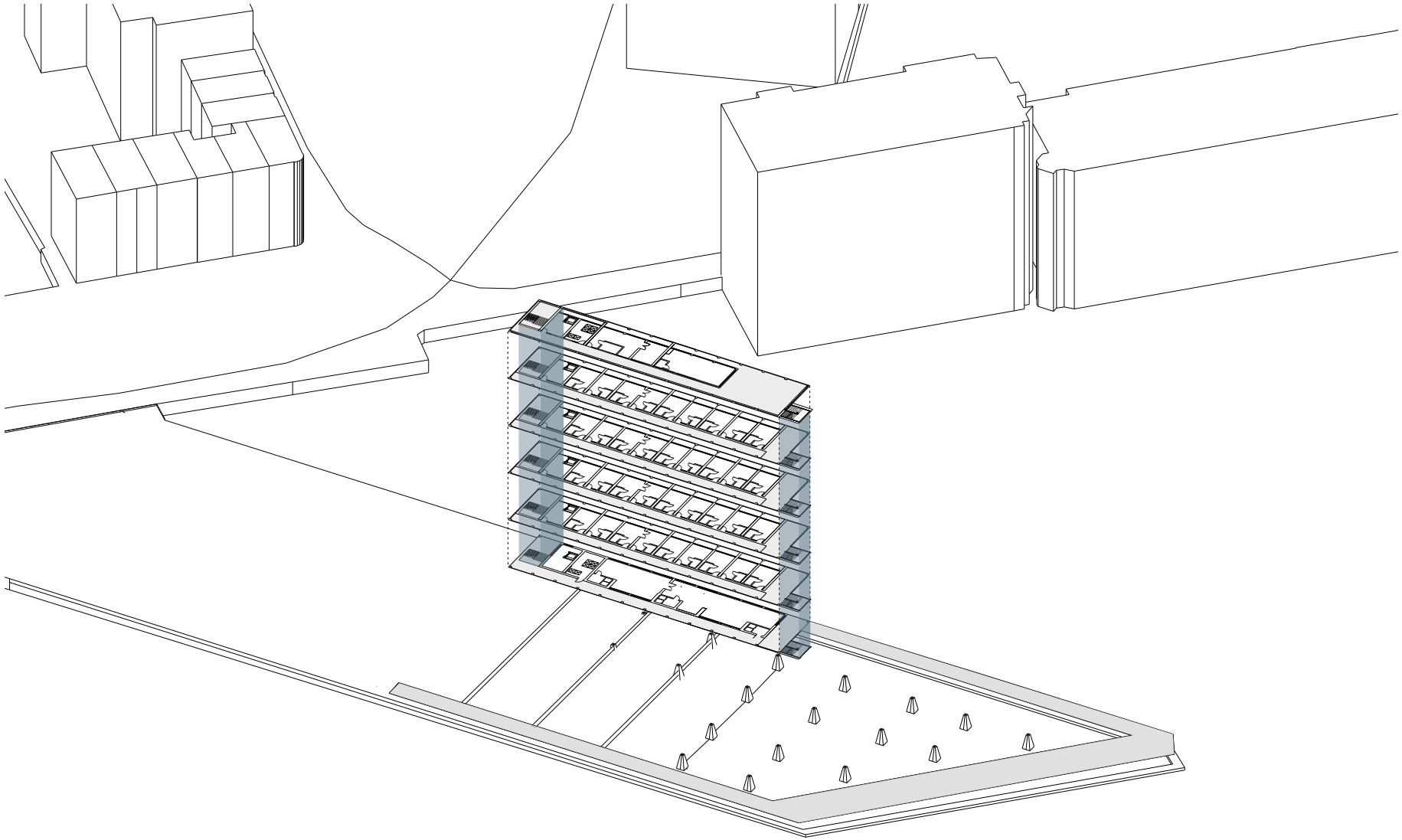
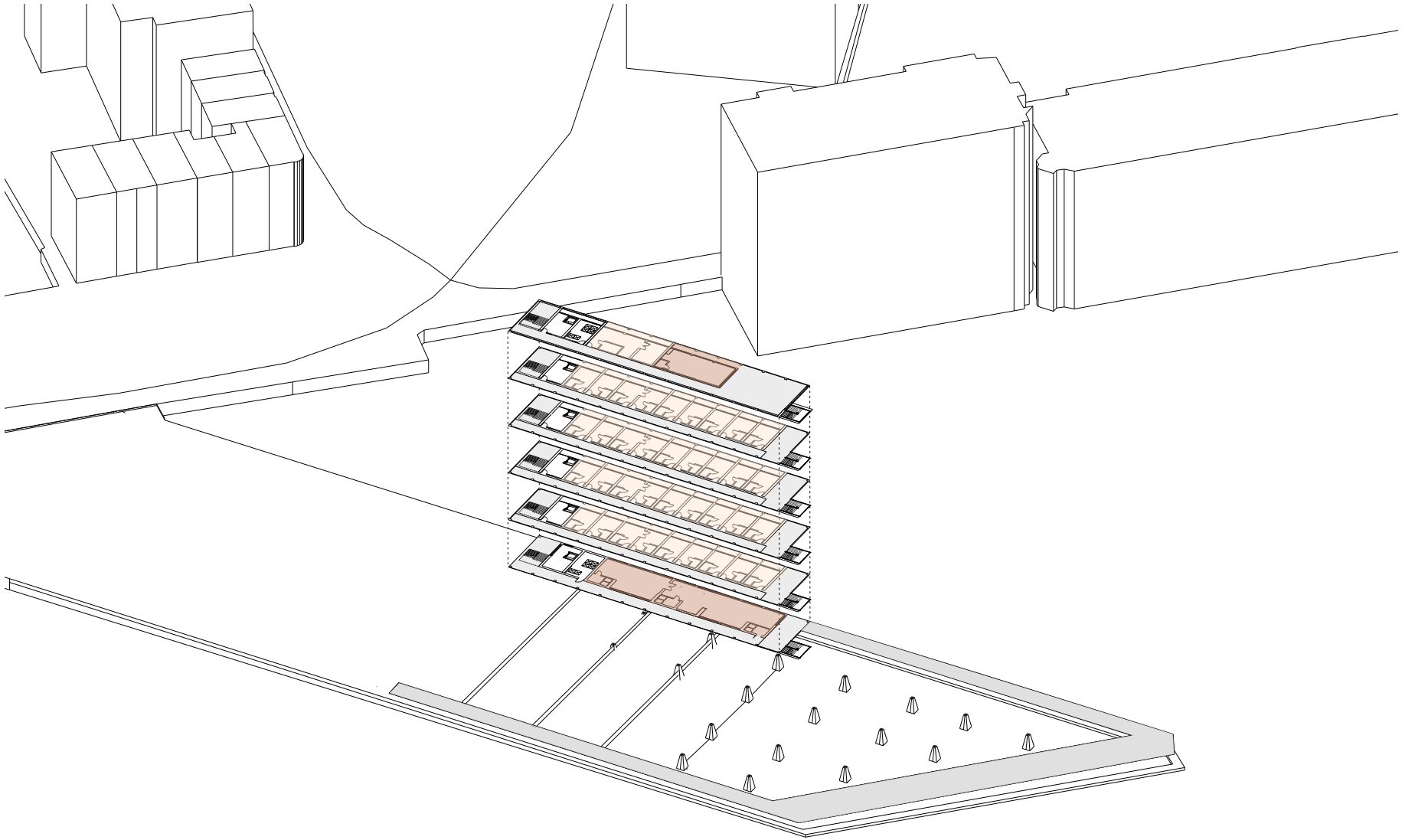


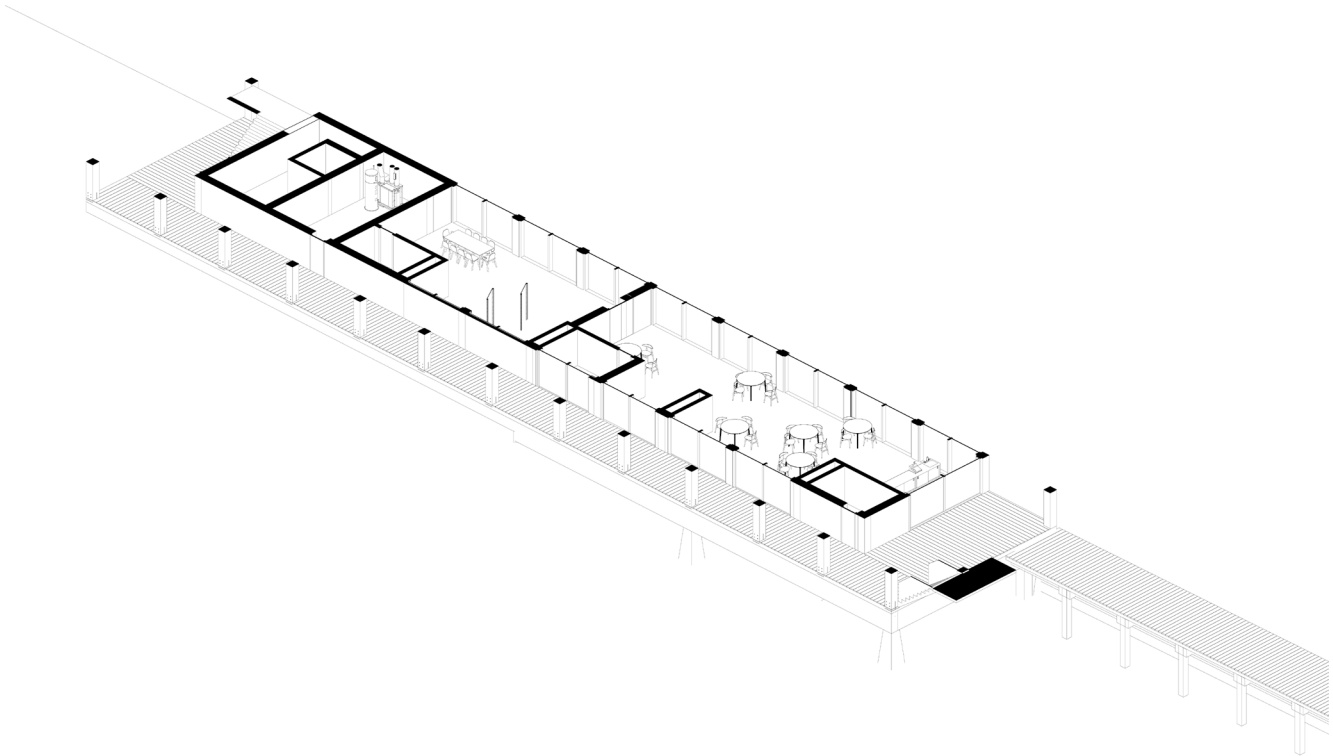
circulation diagram

circulation

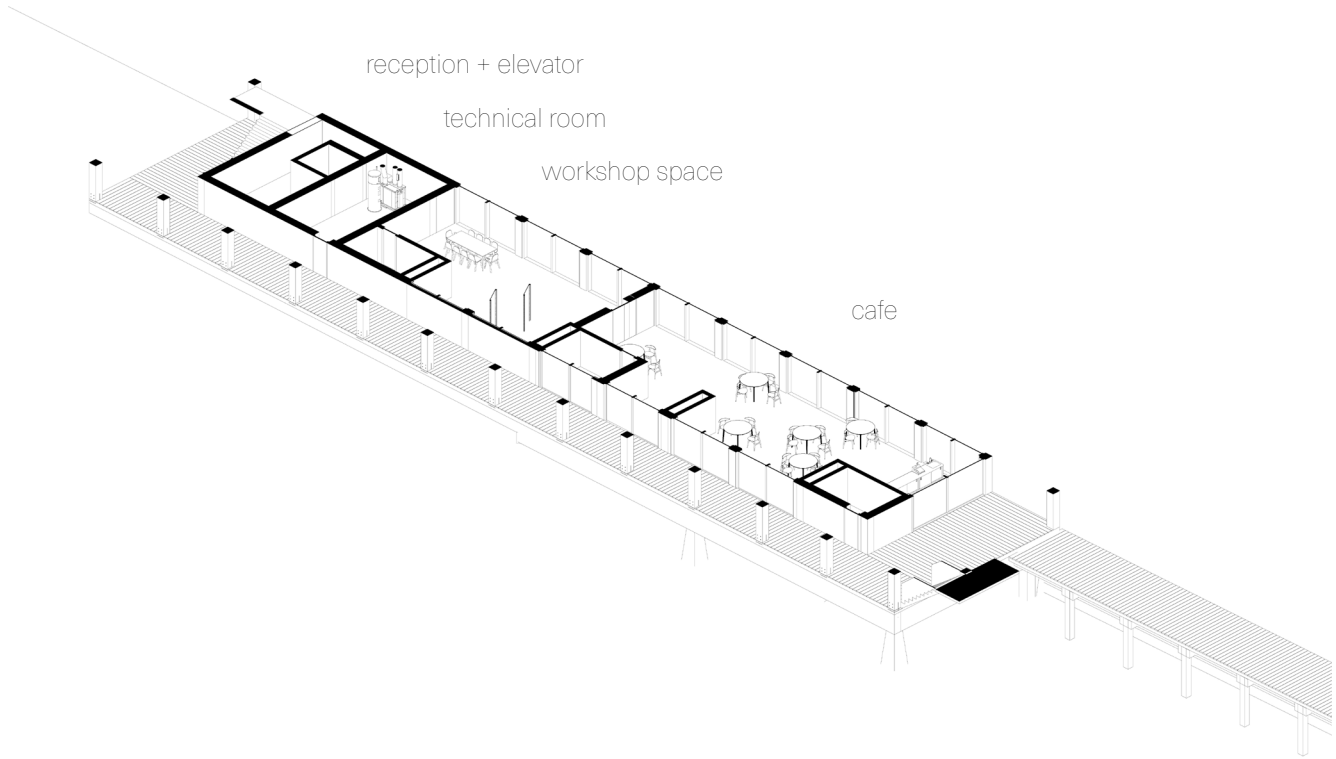
circulation



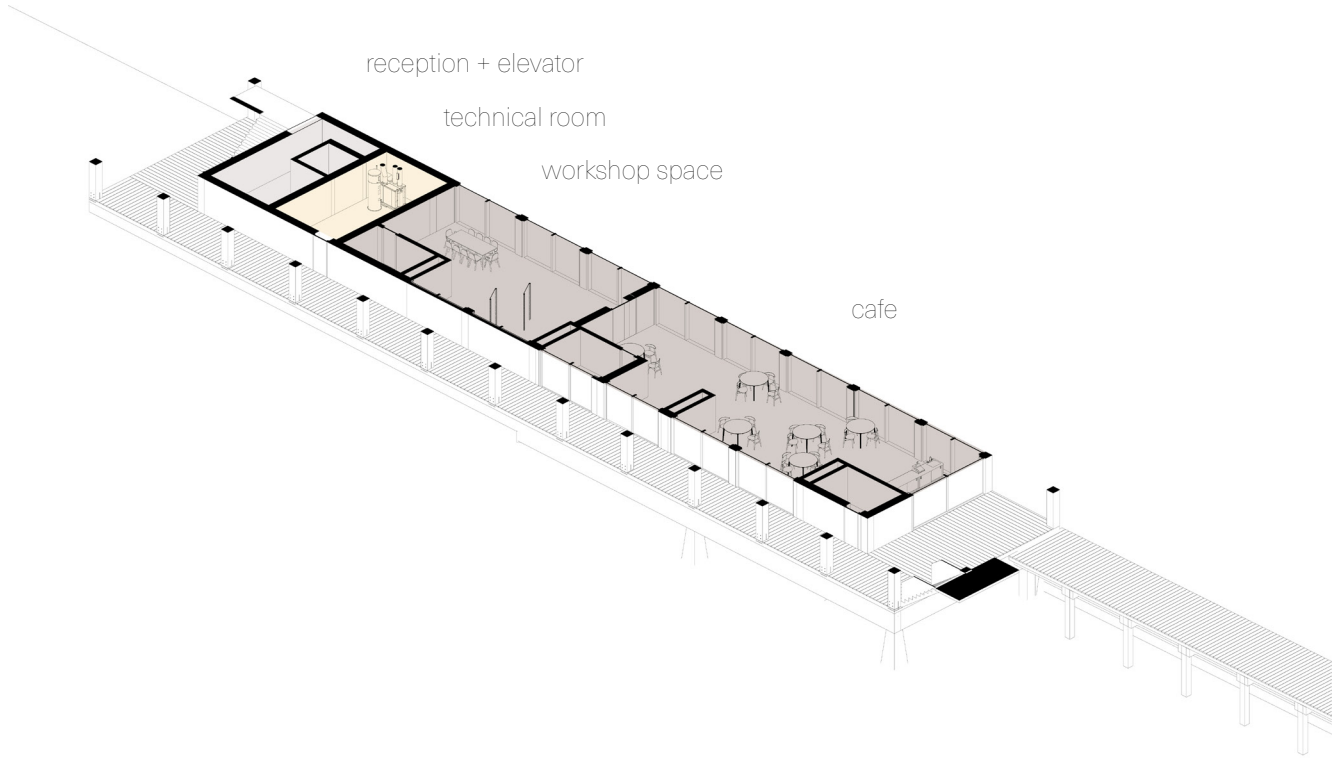
public vs. private



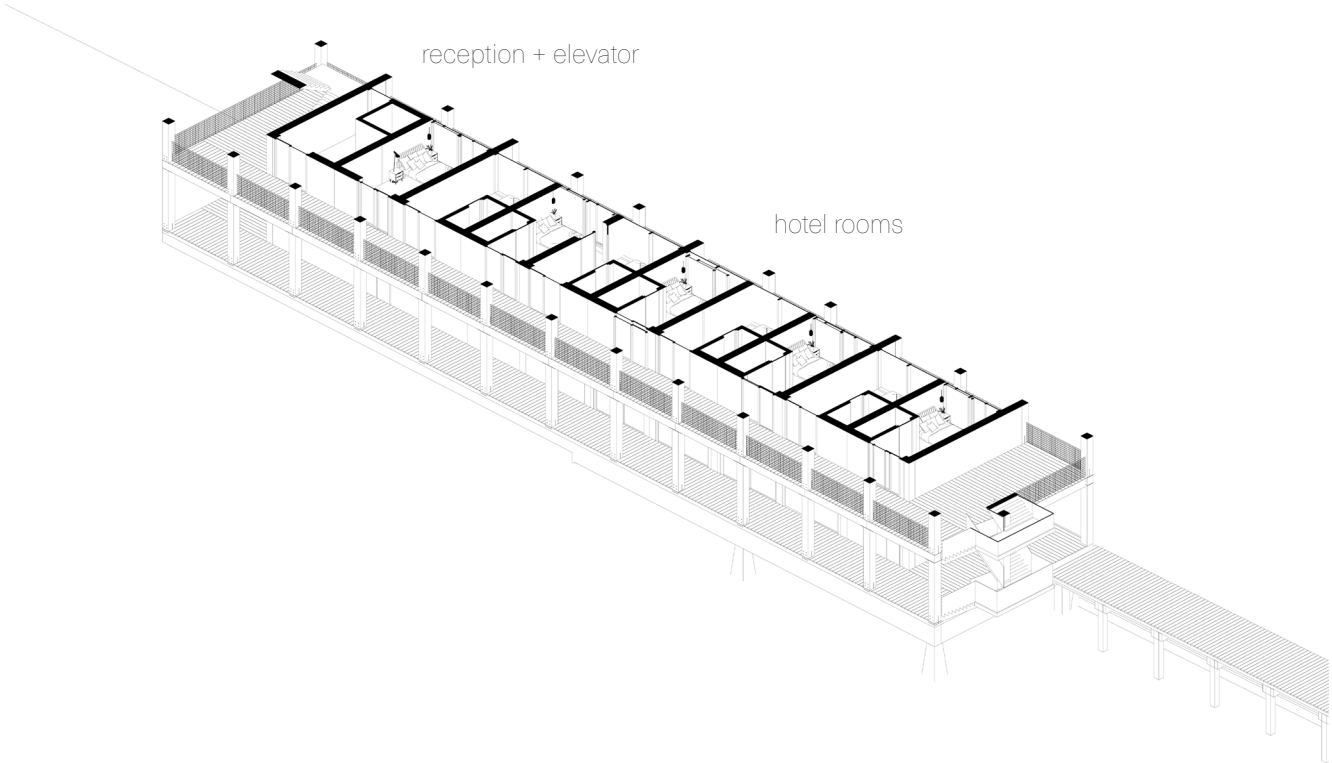
ground floor functions



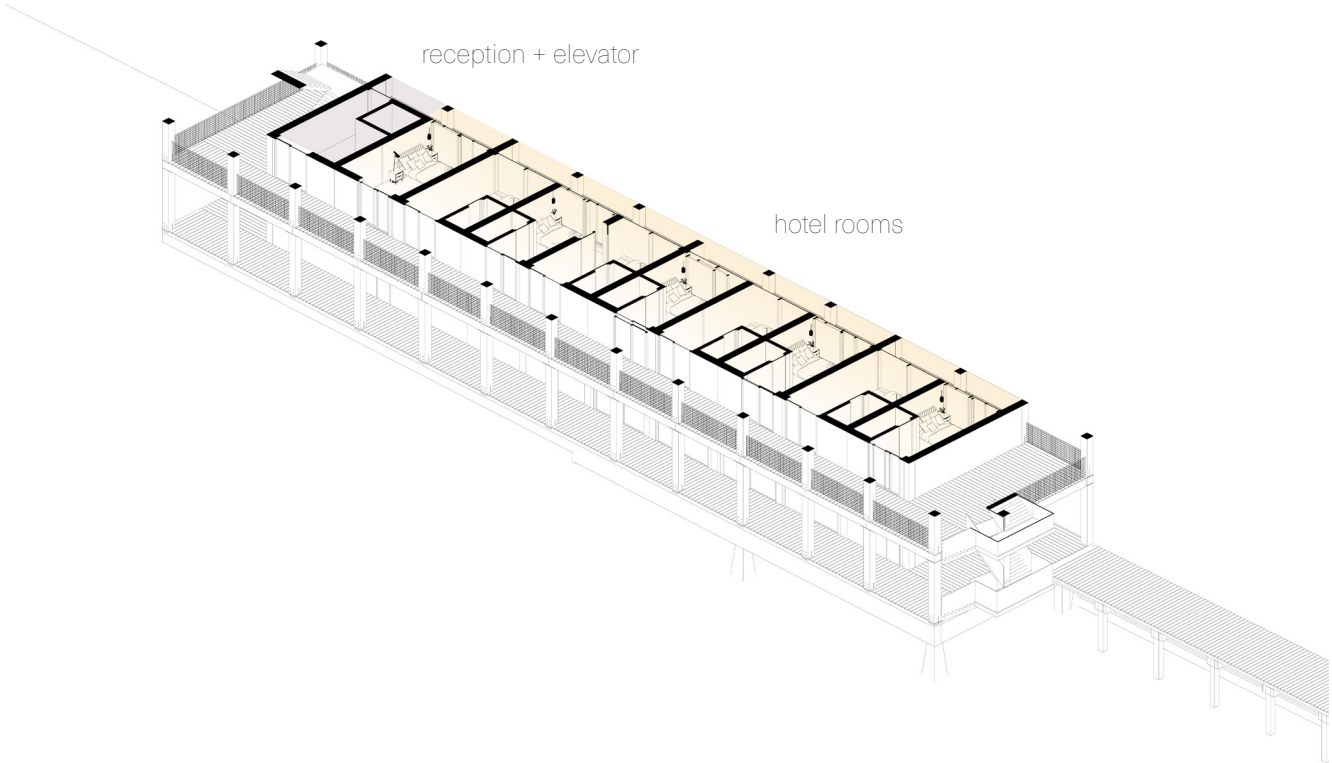
ground floor functions



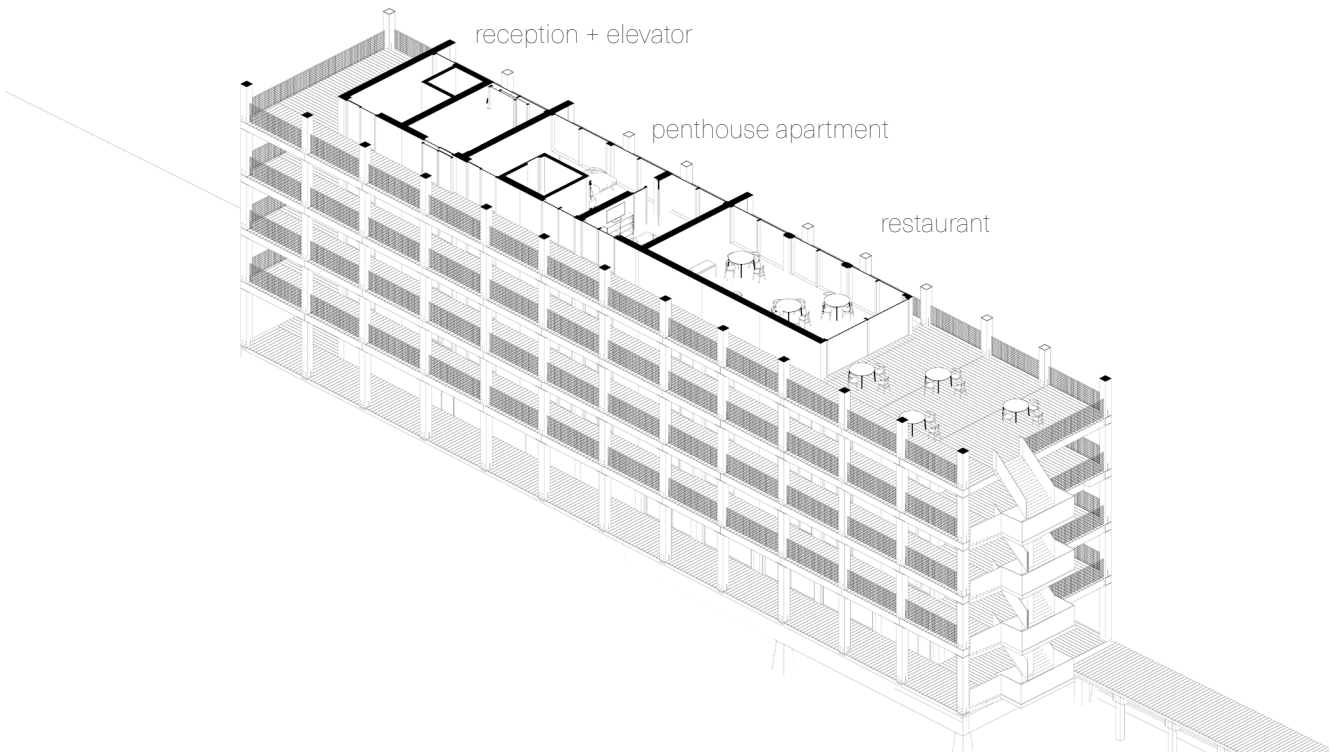
ground floor functions public/private



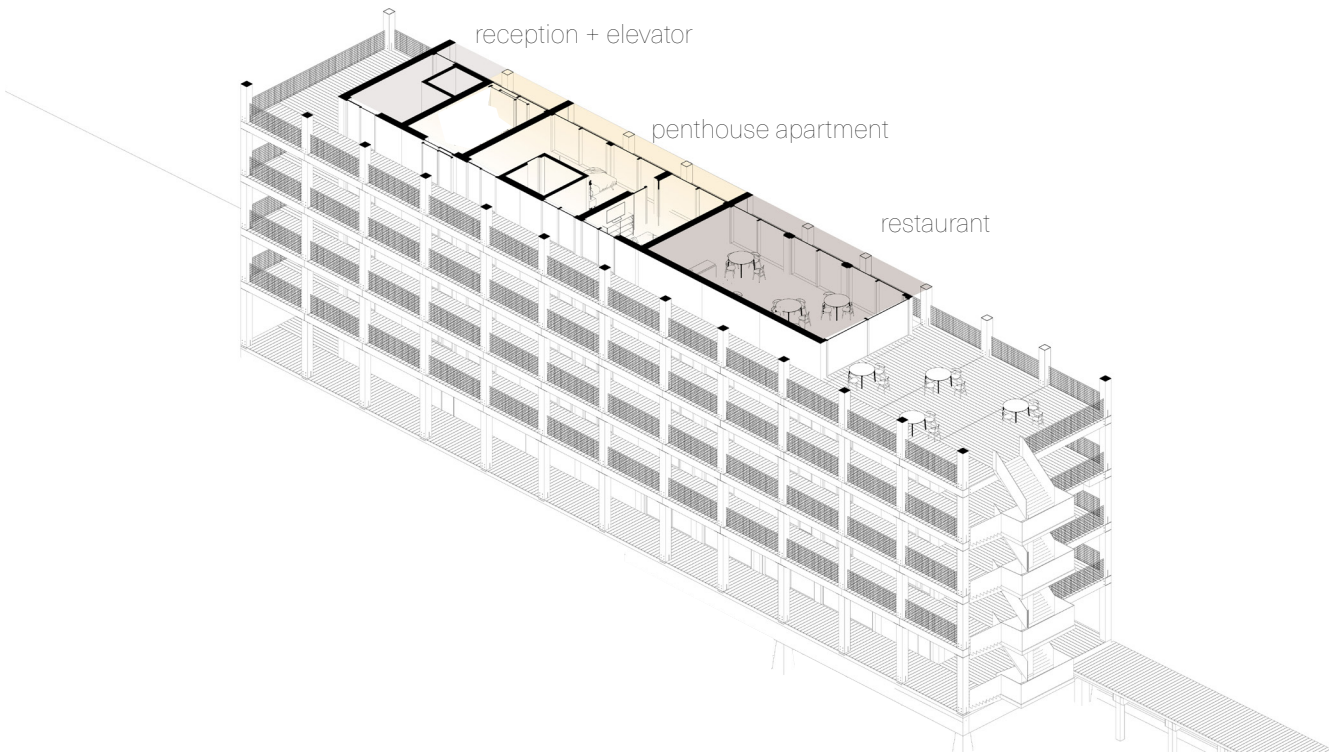
first floor functions



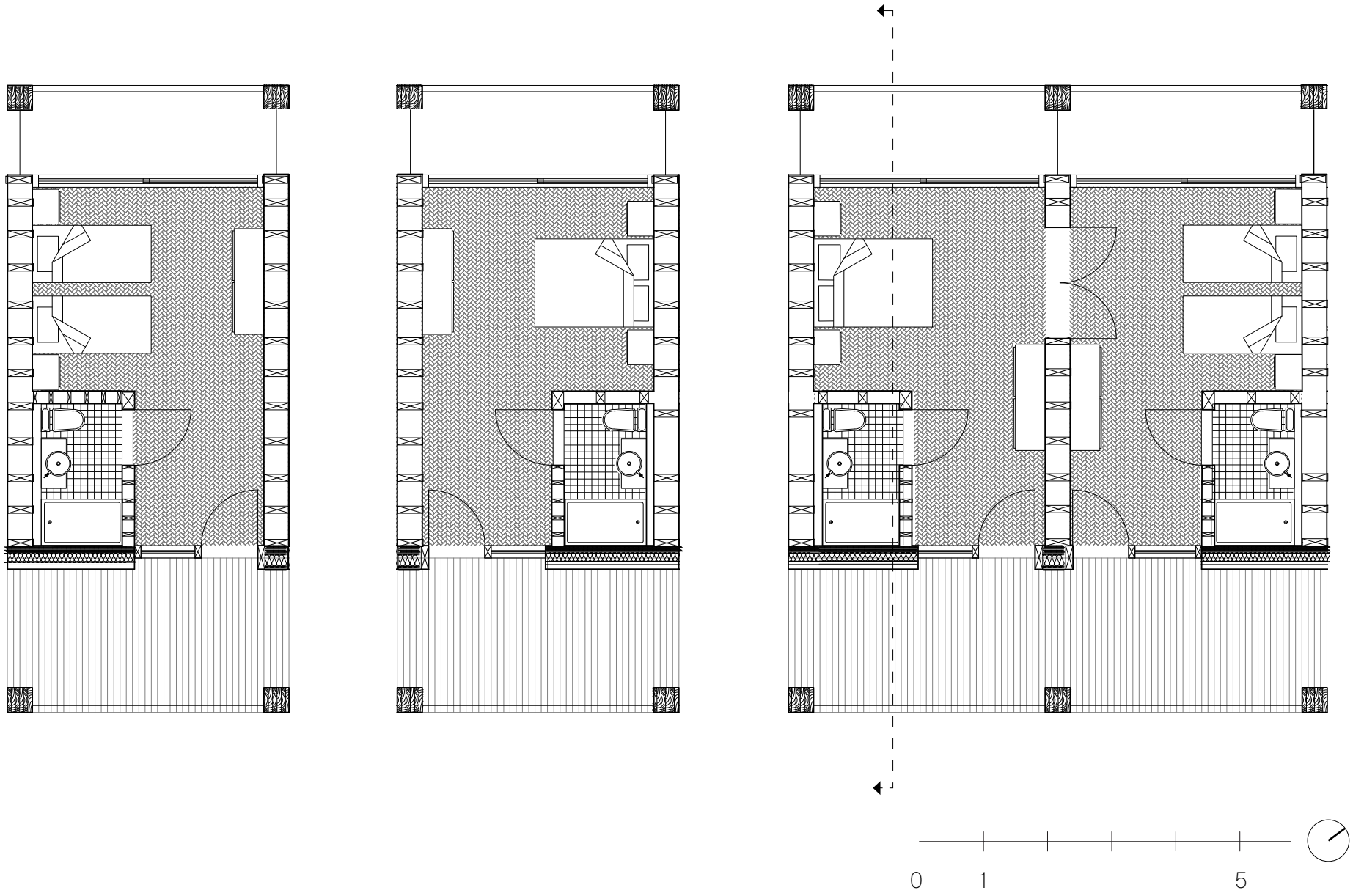
first floor privacy gradient



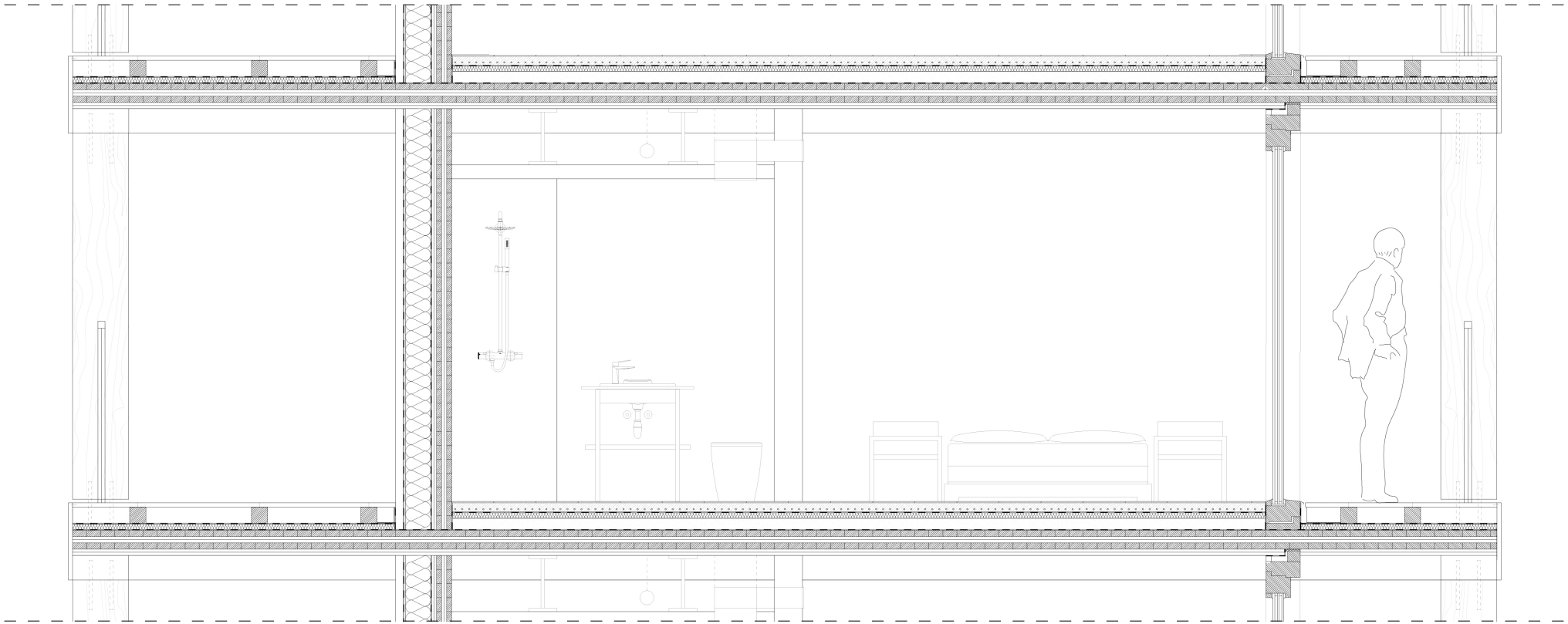
top floor functions



top floor public/private

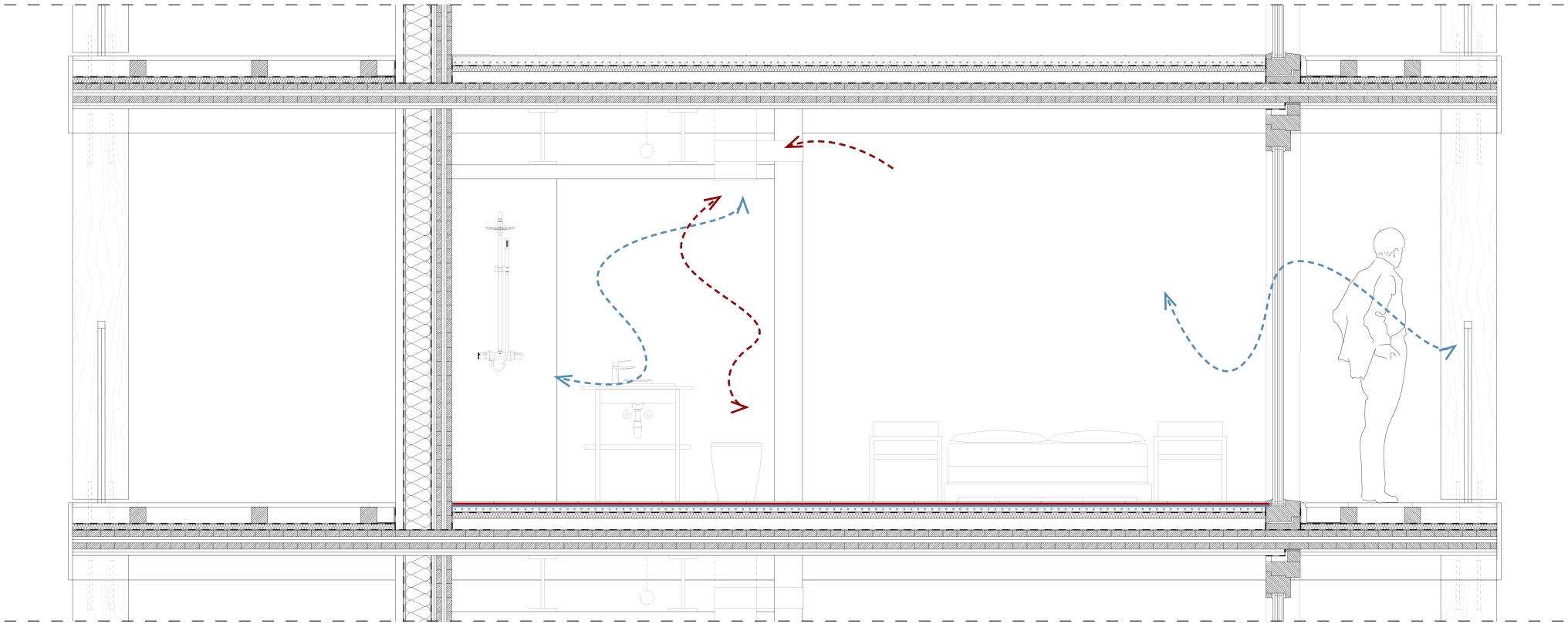


room types



0 1 3

room section



0 1 3

room section ventilation

room interior

room interior

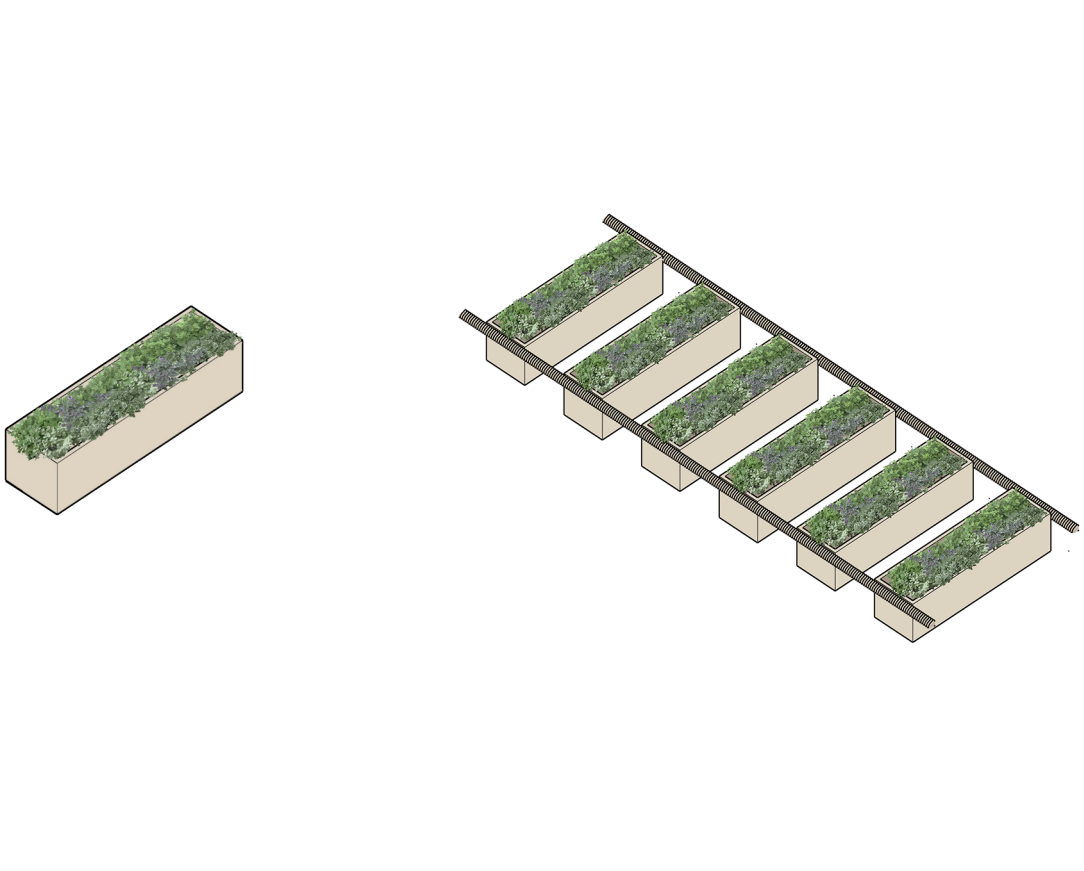
elevation detail

0 1 5

public cafe interior

wetland

Four ‘lenses’ of Amsterdam’s city doughnut



individual assignment green ladder

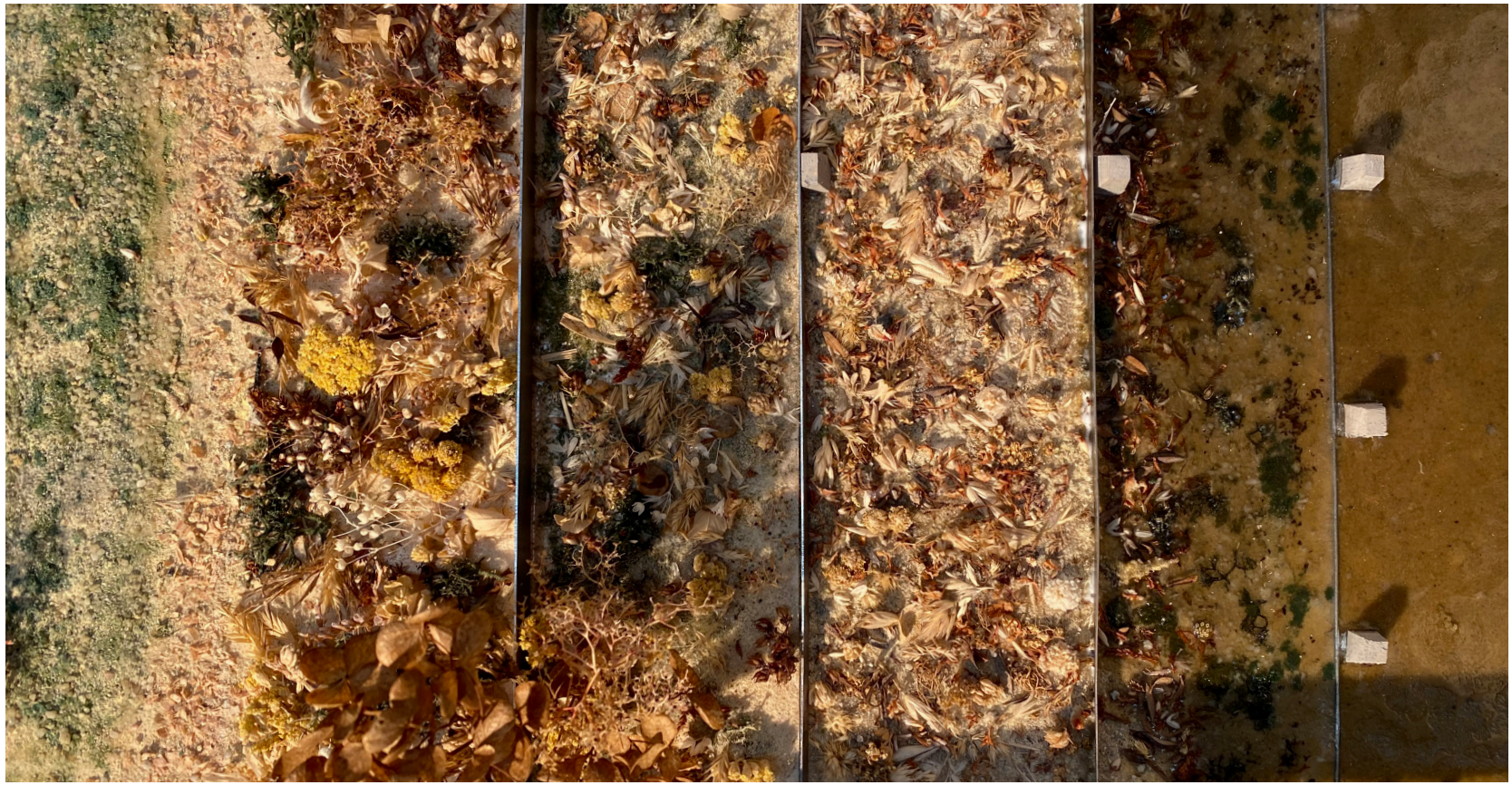
individual assignment green ladder

individual assignment green ladder - single pot

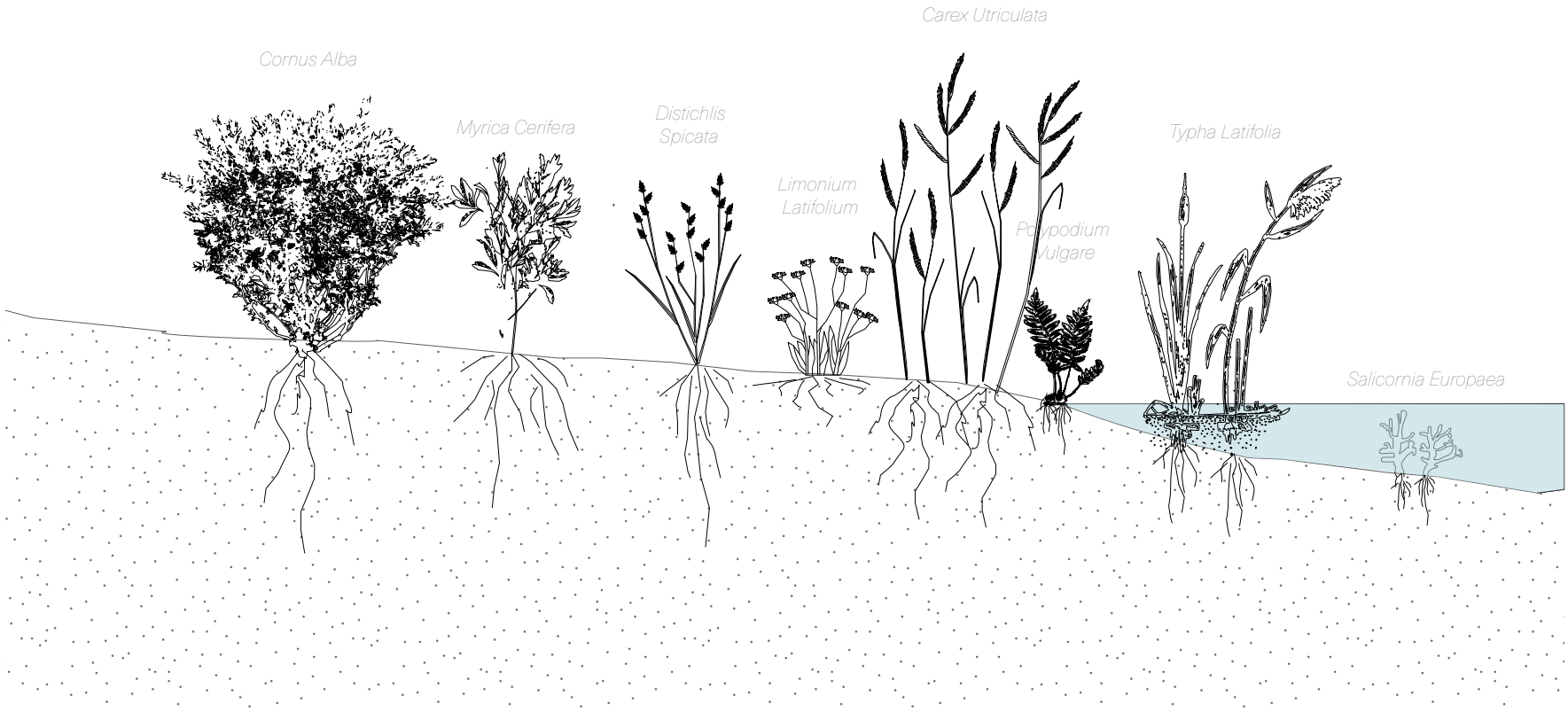
individual assignment green ladder - multiple pots

biodiverse environment of the Stenen Hoofd

site plan wetland

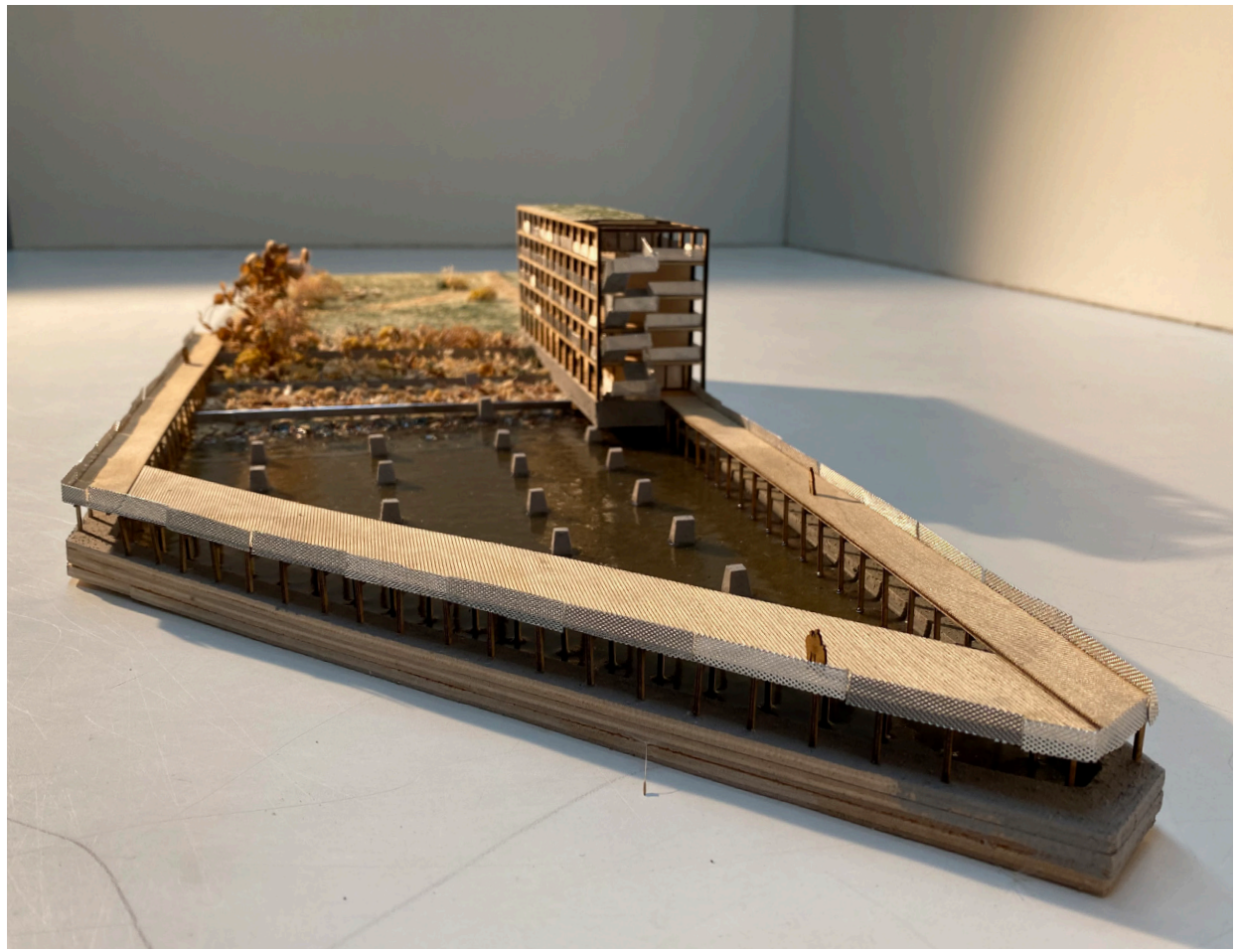


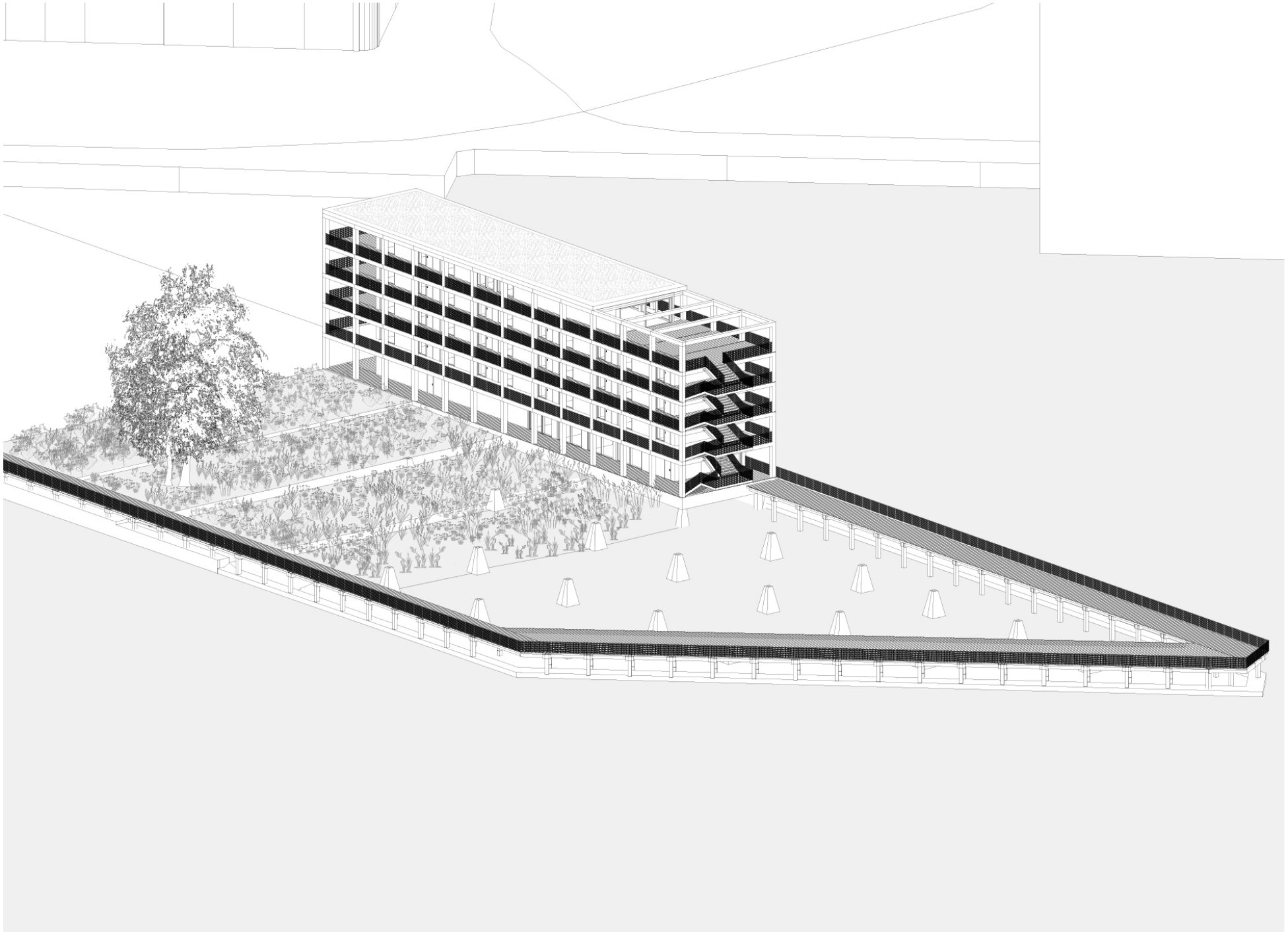
upland upper border high marsh low marsh tidal flat



wetland plant types

wetland section





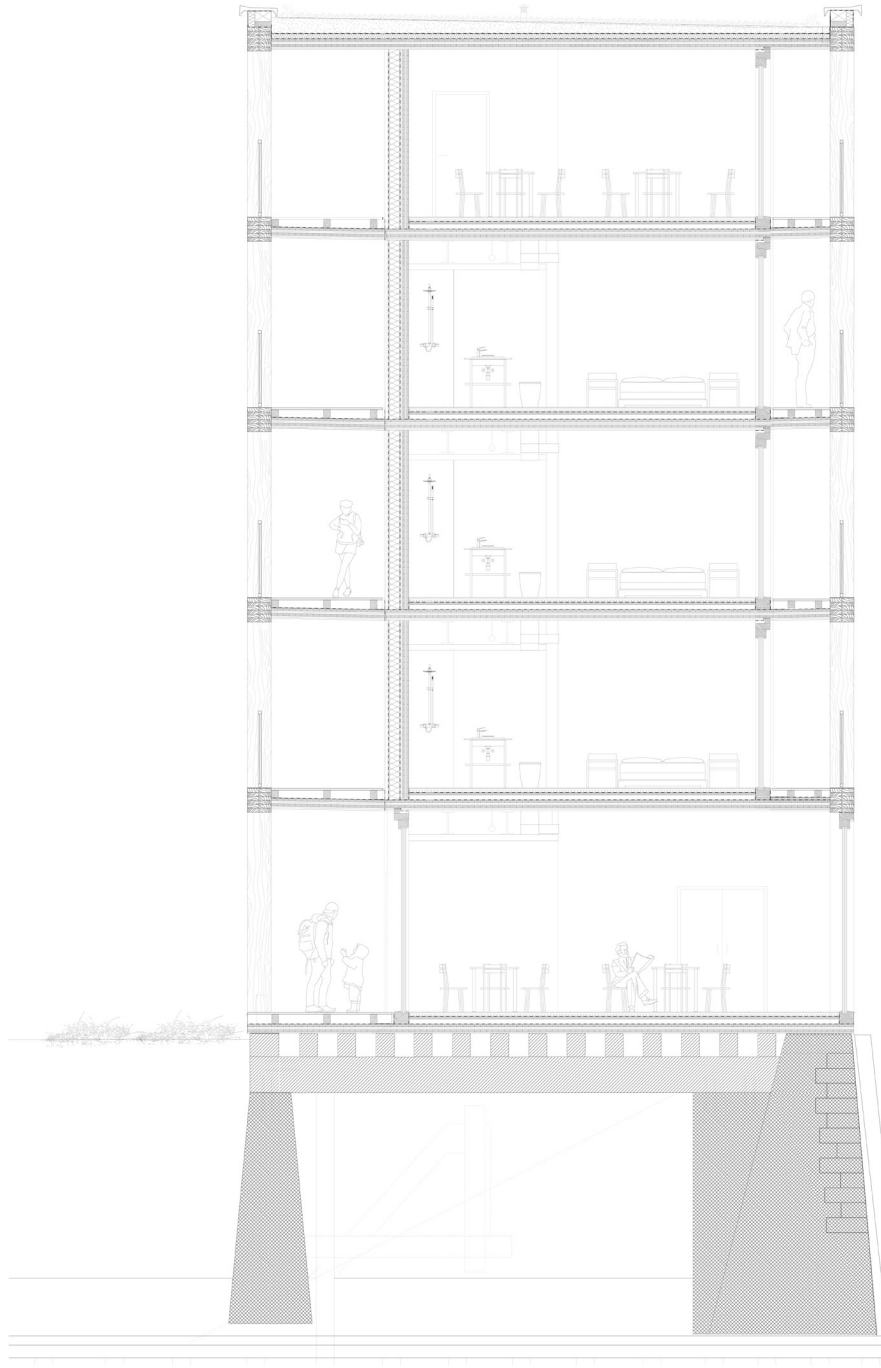
swimming in Het IJ

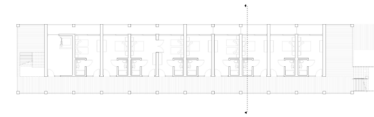
view on the wetland

front elevation - south east

back elevation - north east

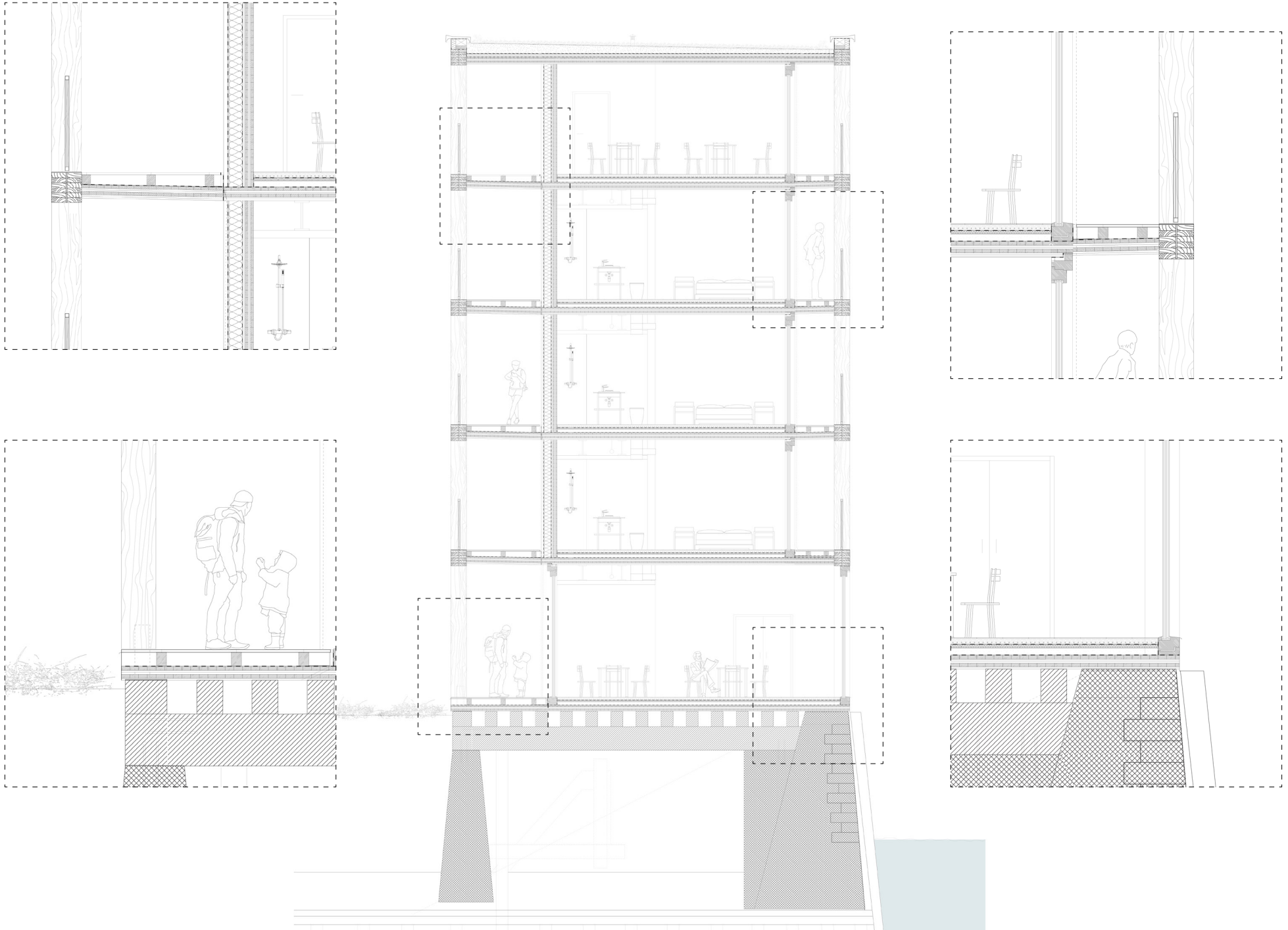
structure





section det ail

0 1 5

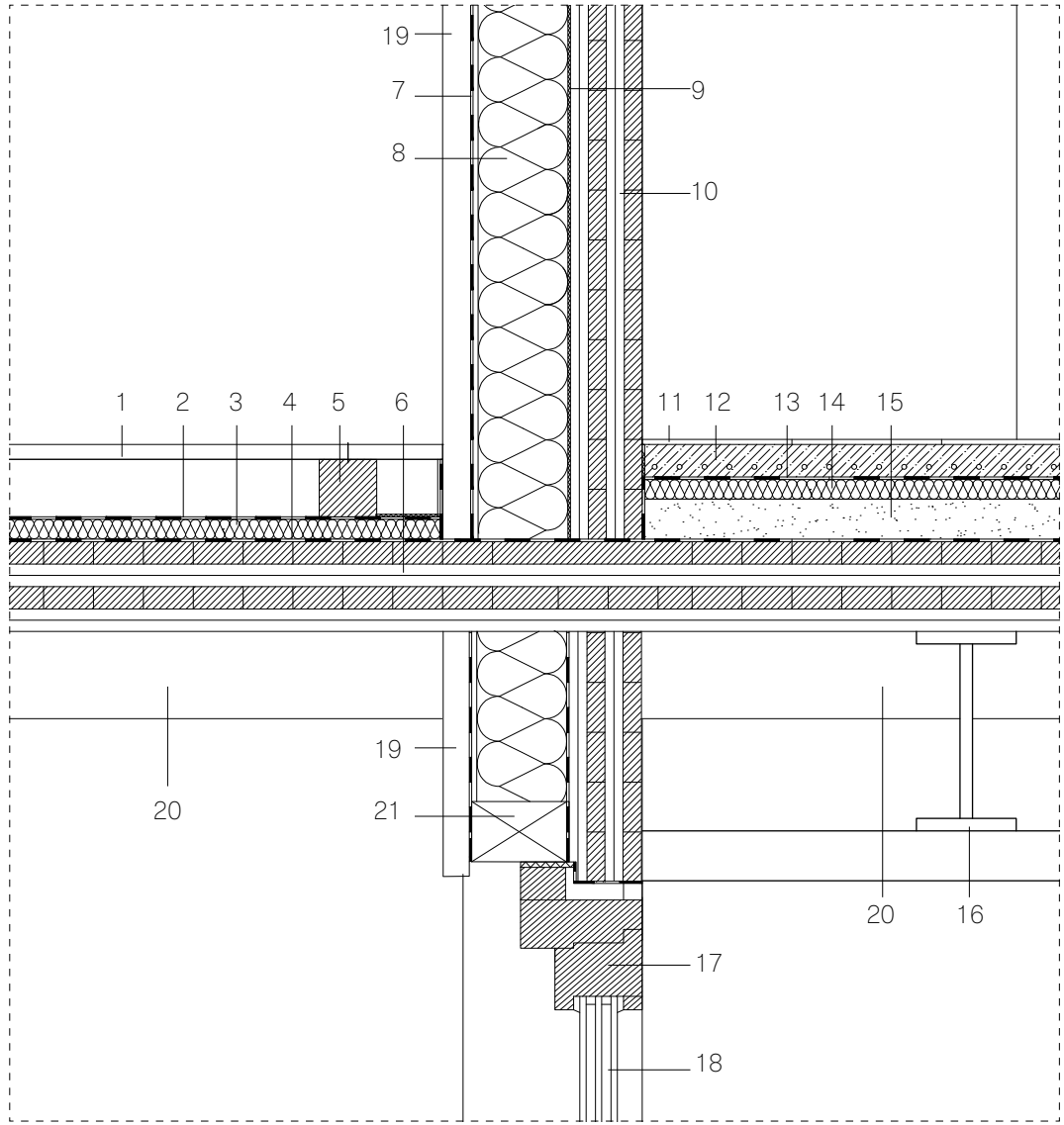


section detail

0 1 5

1. wooden floor planks 30 mm
2. protective mat
3. insulation eps 40 mm
4. elastomer bitumen
5. supporting batten 115 mm
6. CLT spruce floor 180 mm
7. facade membrane
8. rock wool lamella insulation 180 mm

19. acetylated pinewood panel 35 mm
20. glulam beam 400 mm
21. supporting batten 180 mm

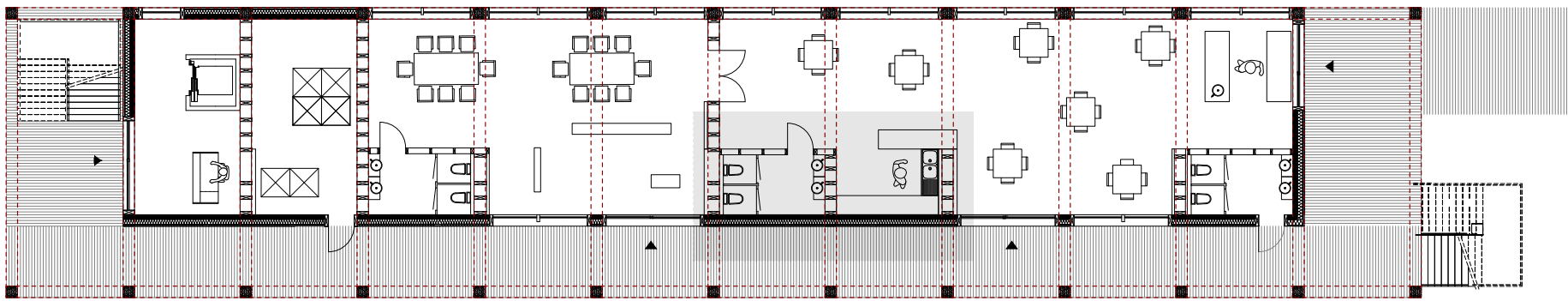


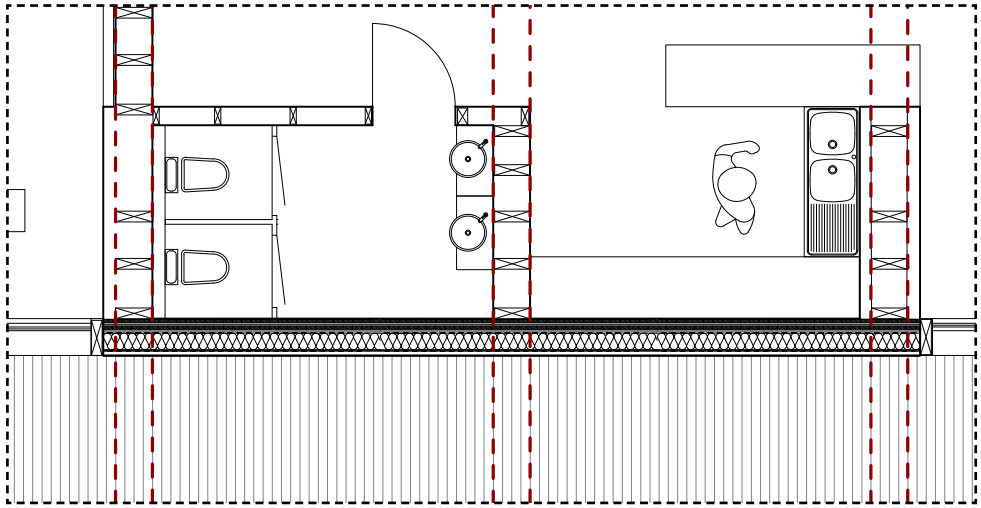
9. gypsum fibreboard 15 mm
10. exposed CLT wall 140 mm

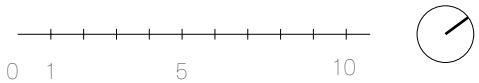
11. floor panels 10 mm
12. heated screed 65 mm
13. PE foil separating layer
14. mineral wool 40 mm
15. bonded chipping infill 80 mm

16. suspended ceiling with plaster finish
17. spruce window frame
18. triple glazing

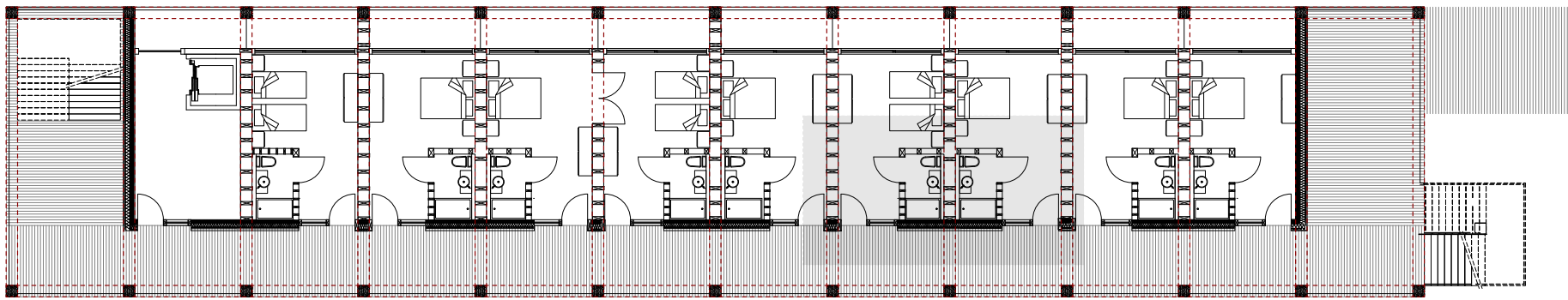
section detail wall - floor connection

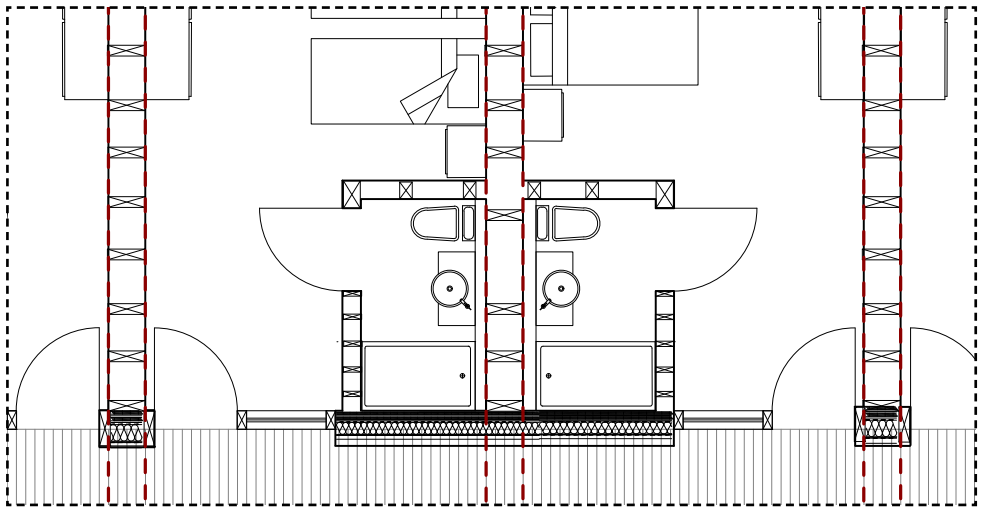


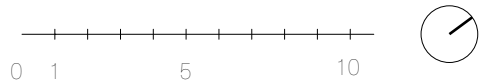




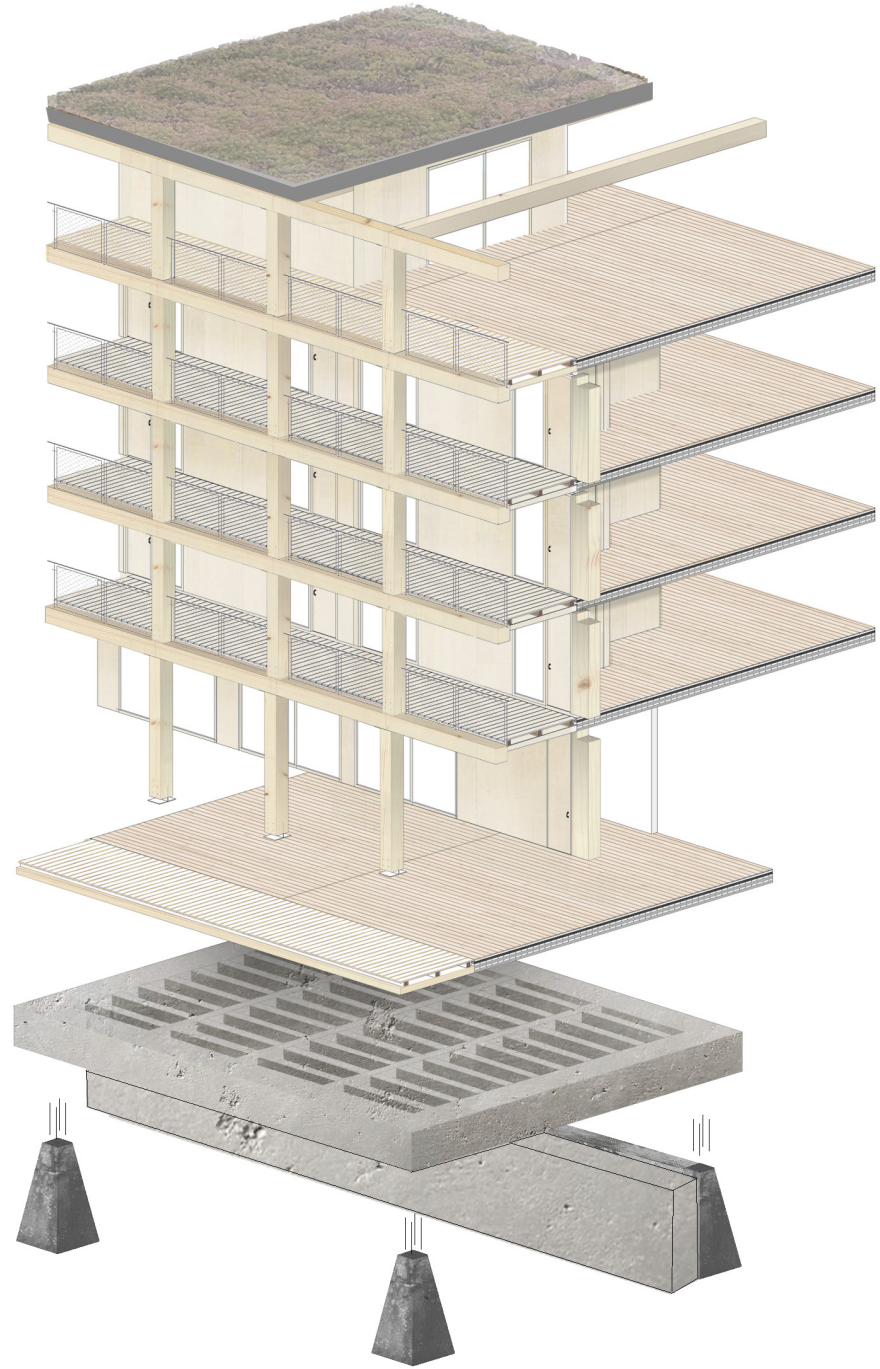
structure ground floor



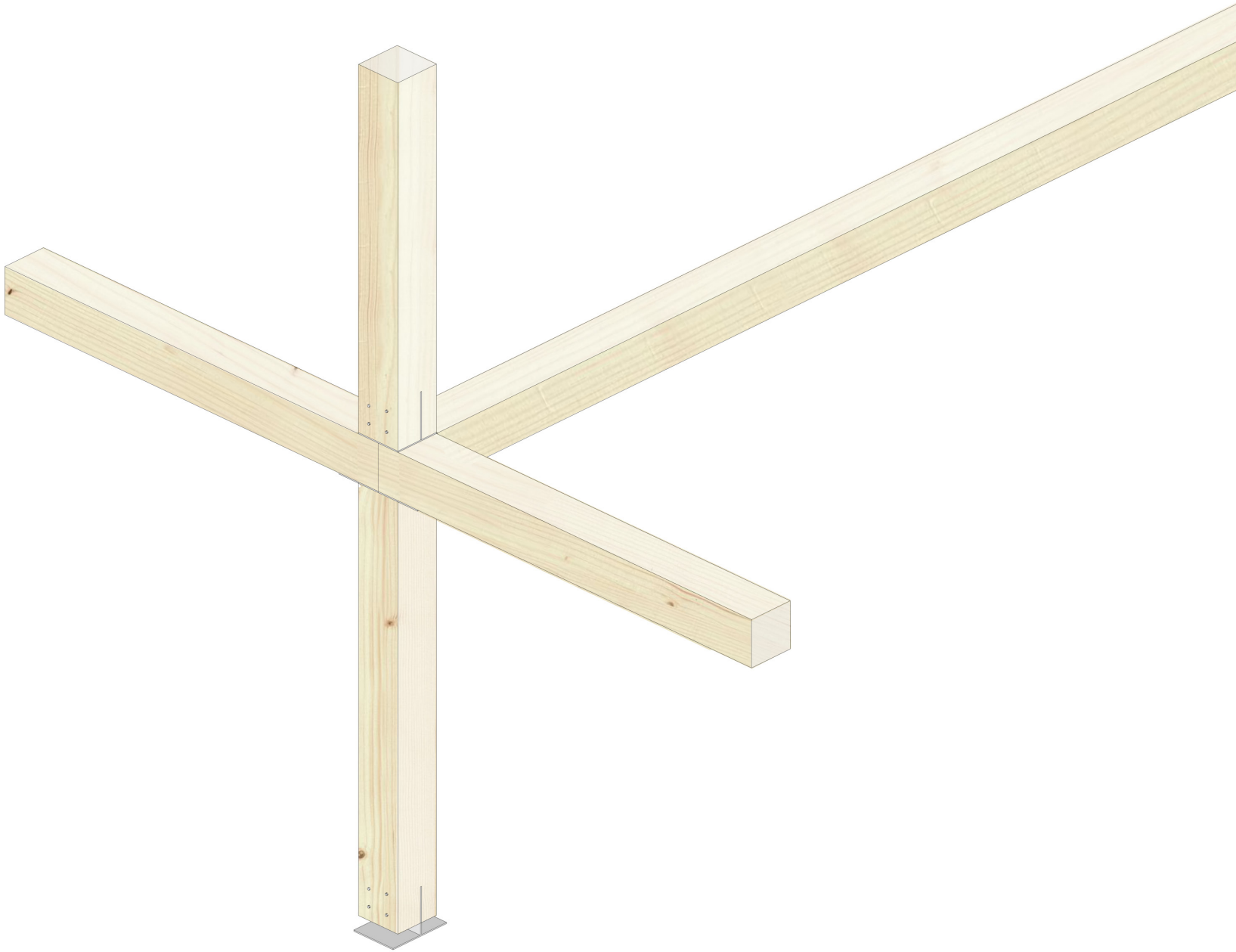




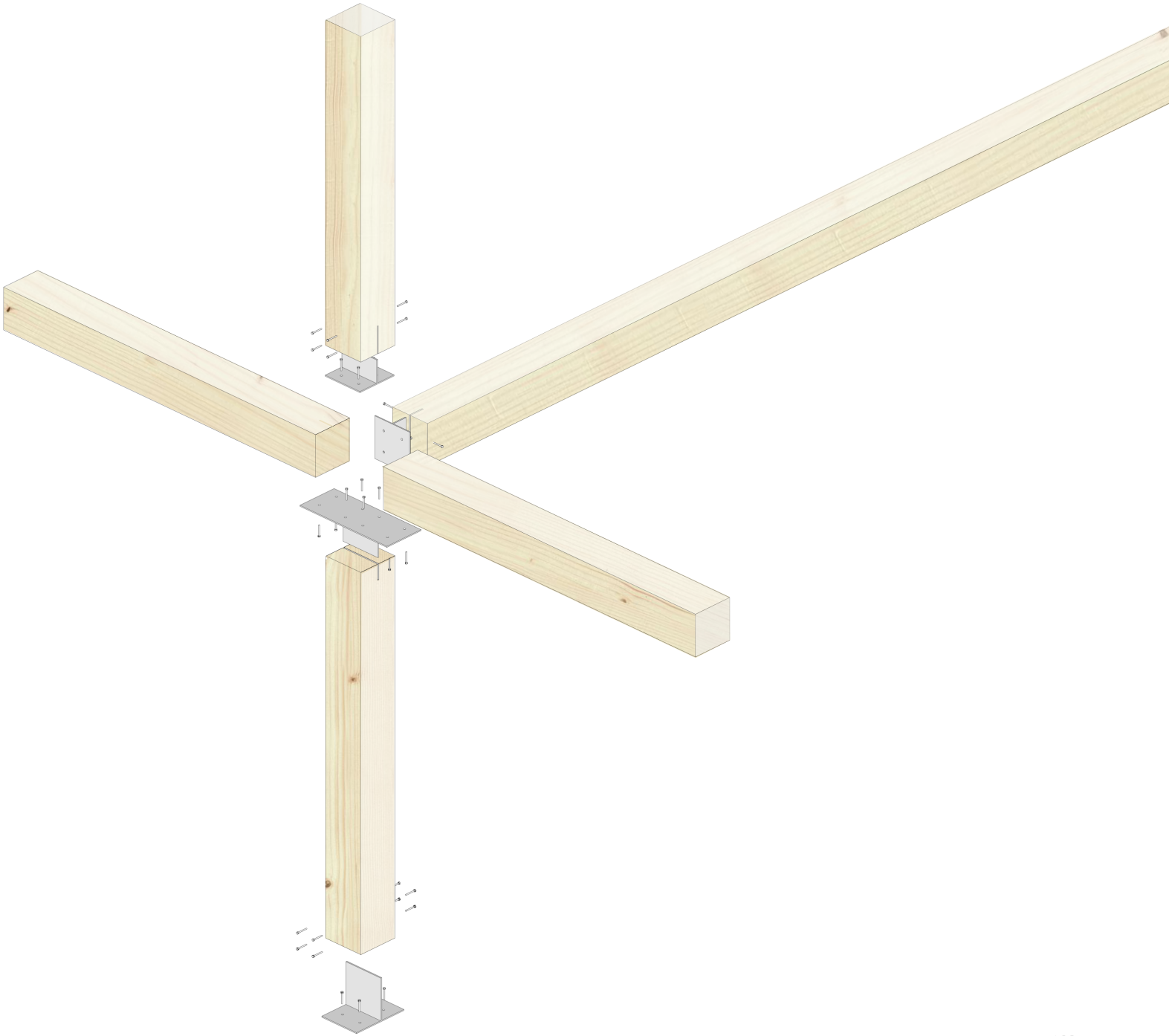
structure 1-4



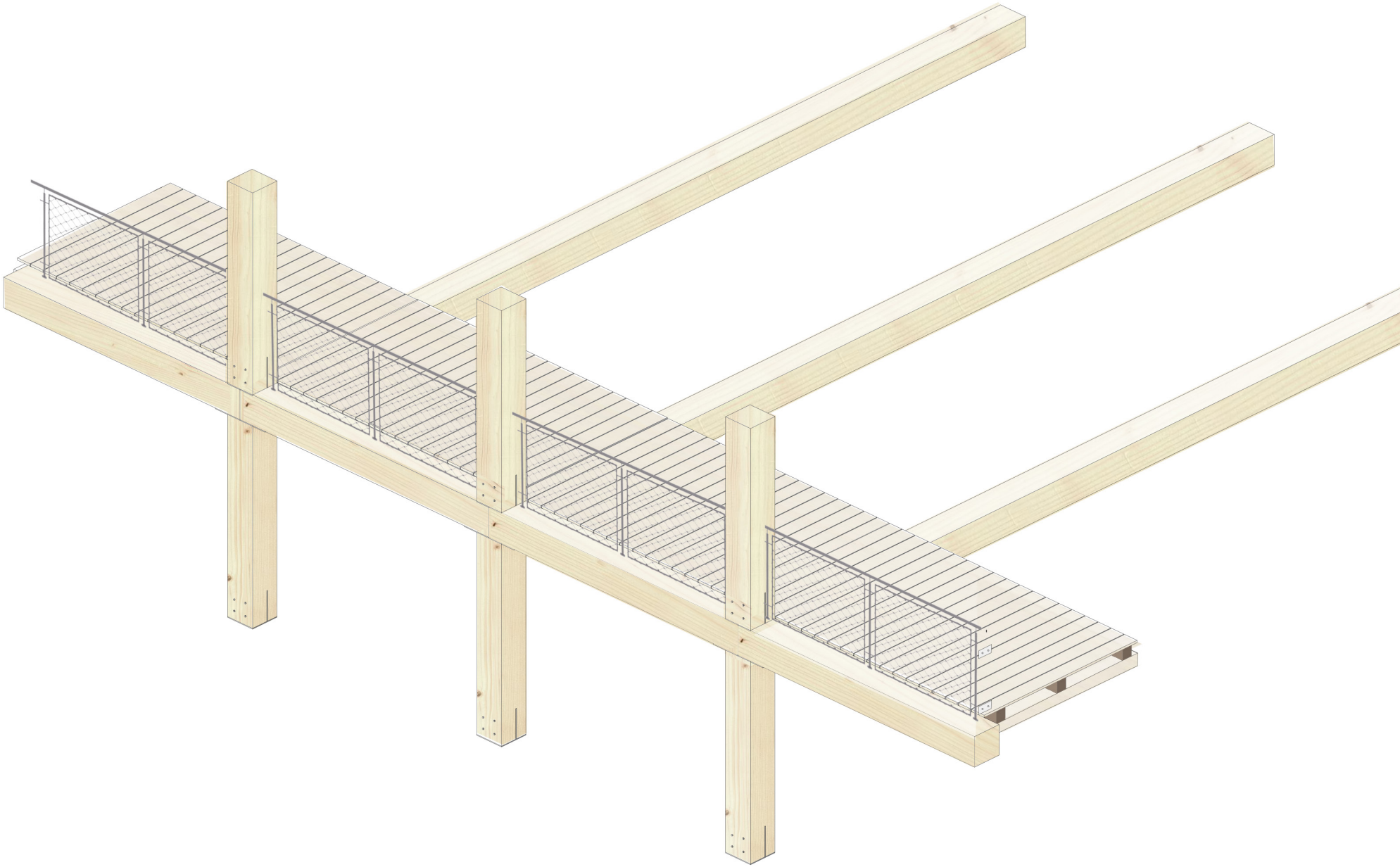
exploaded view on materiality



glulam beam connection



glulam beam connection

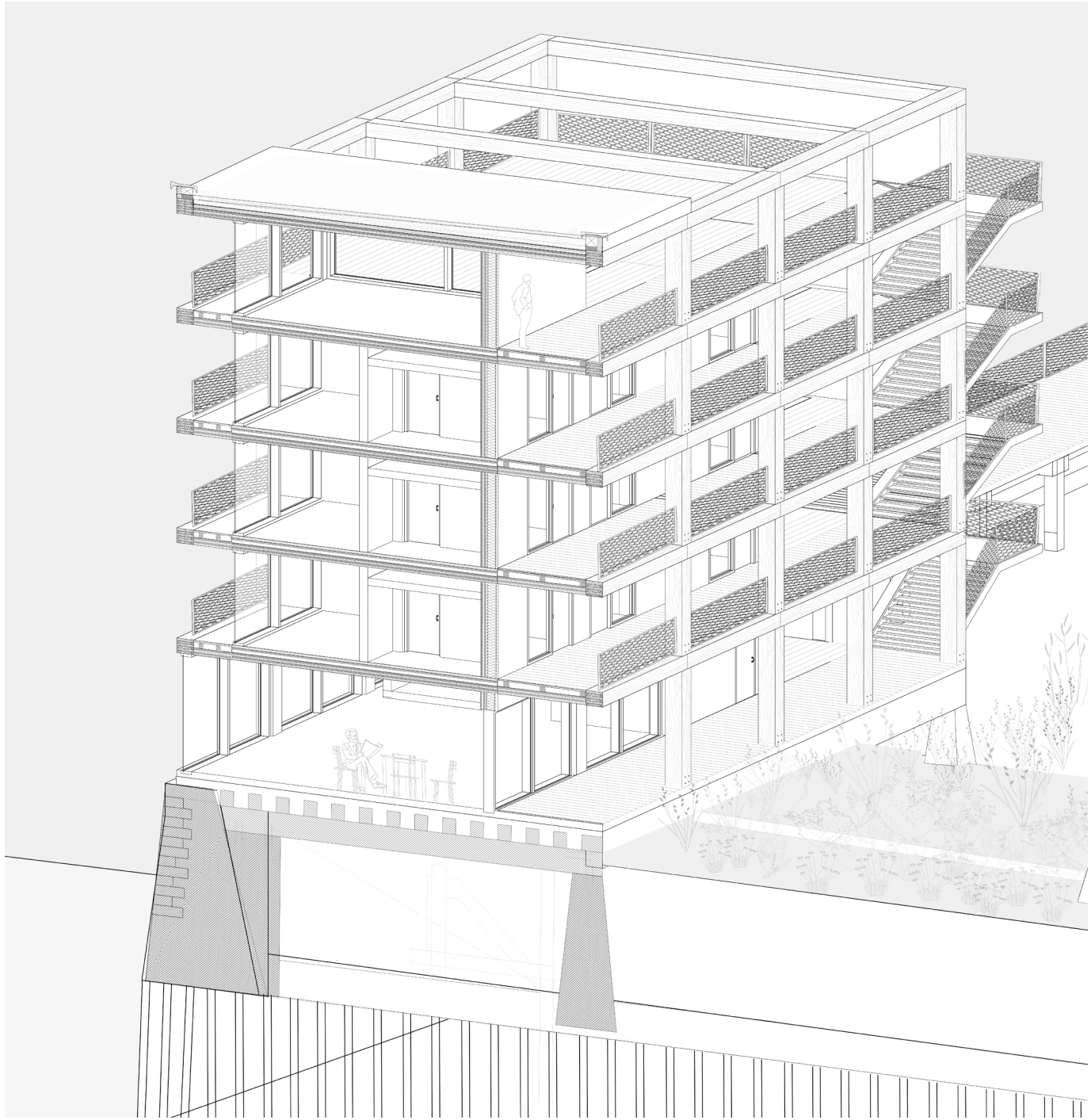


gallery structure

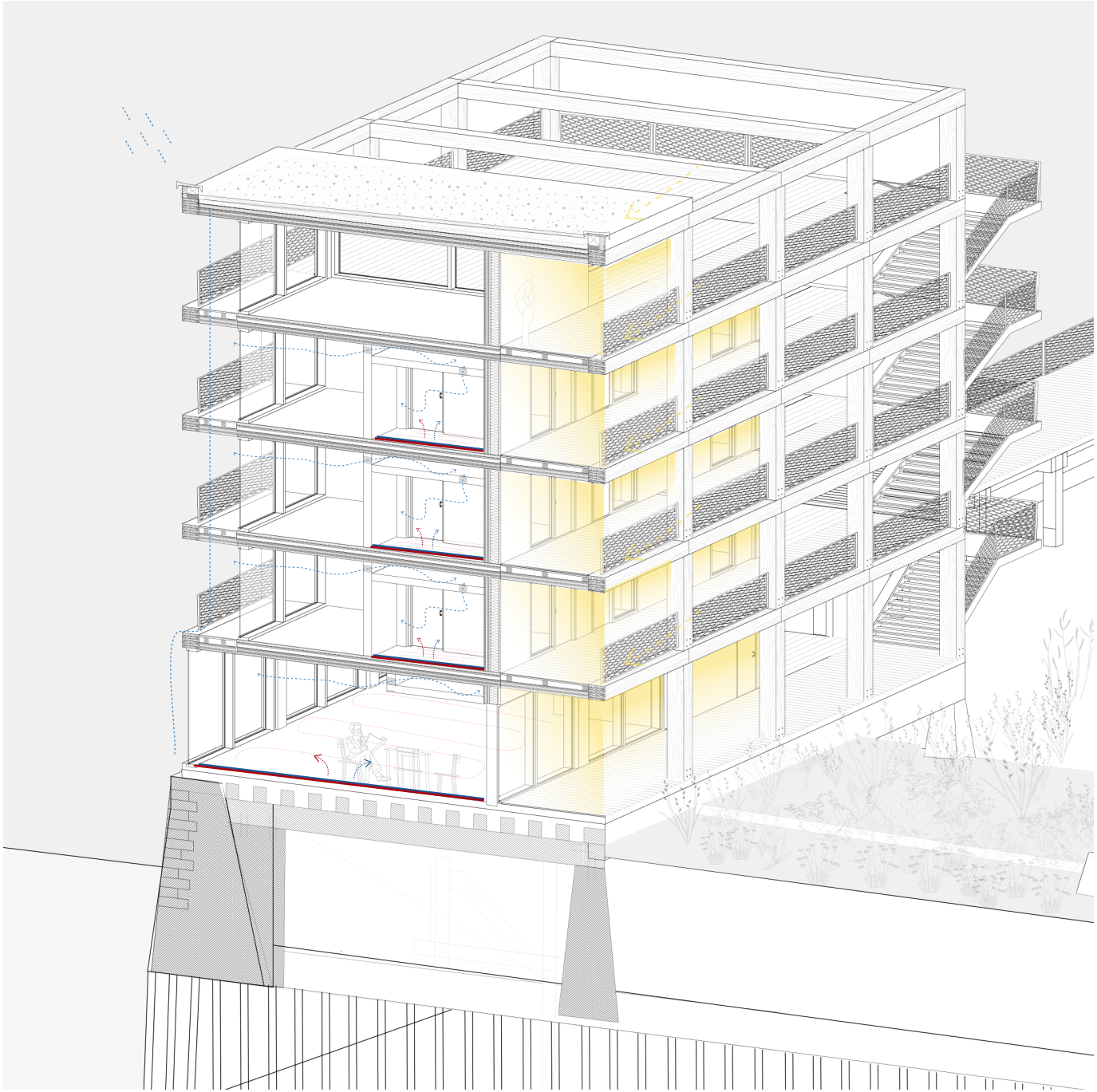
acetylated timber

newly built

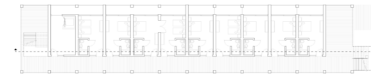
wathered timber



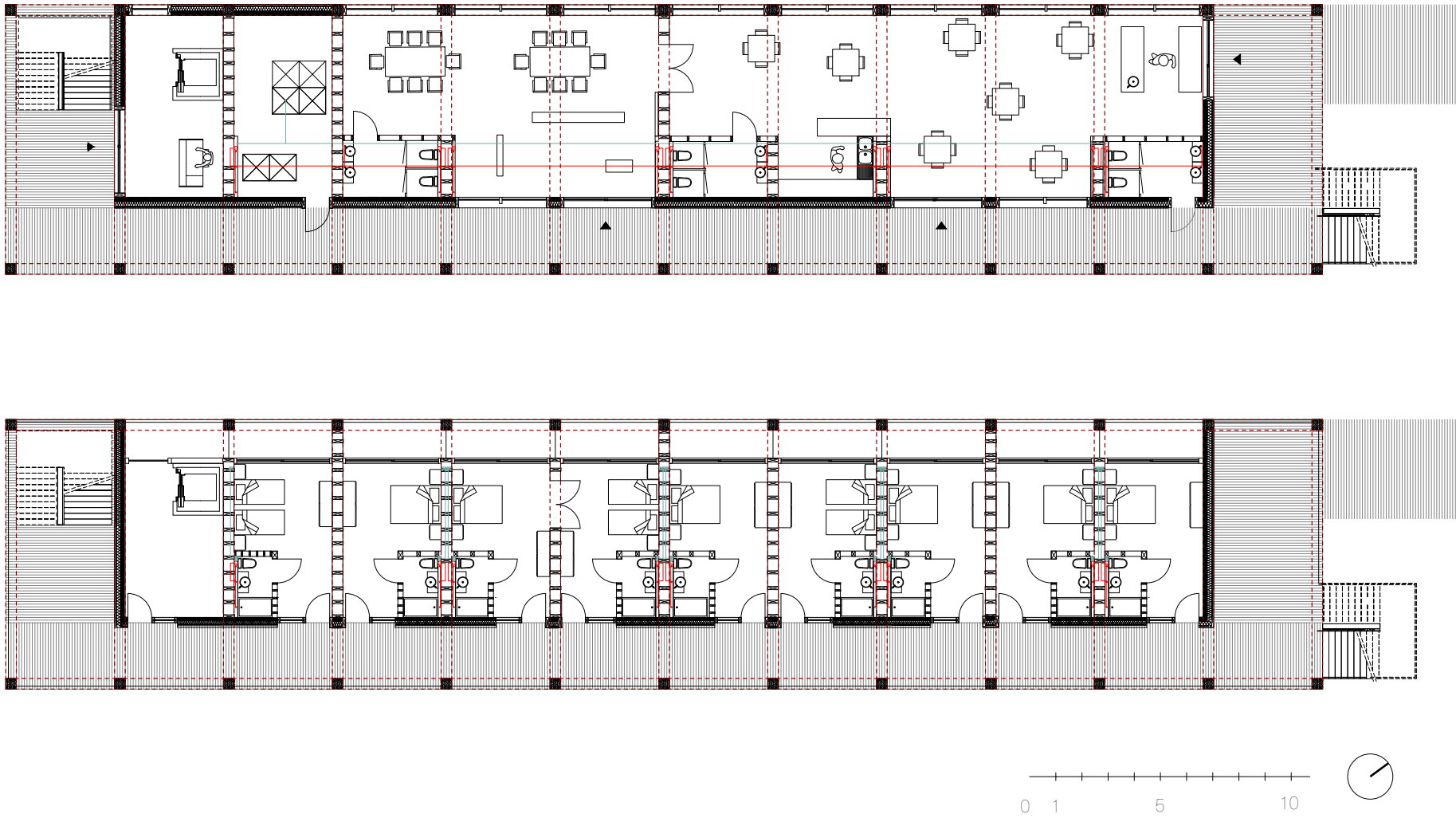
wetland section detailed



wetland section climate

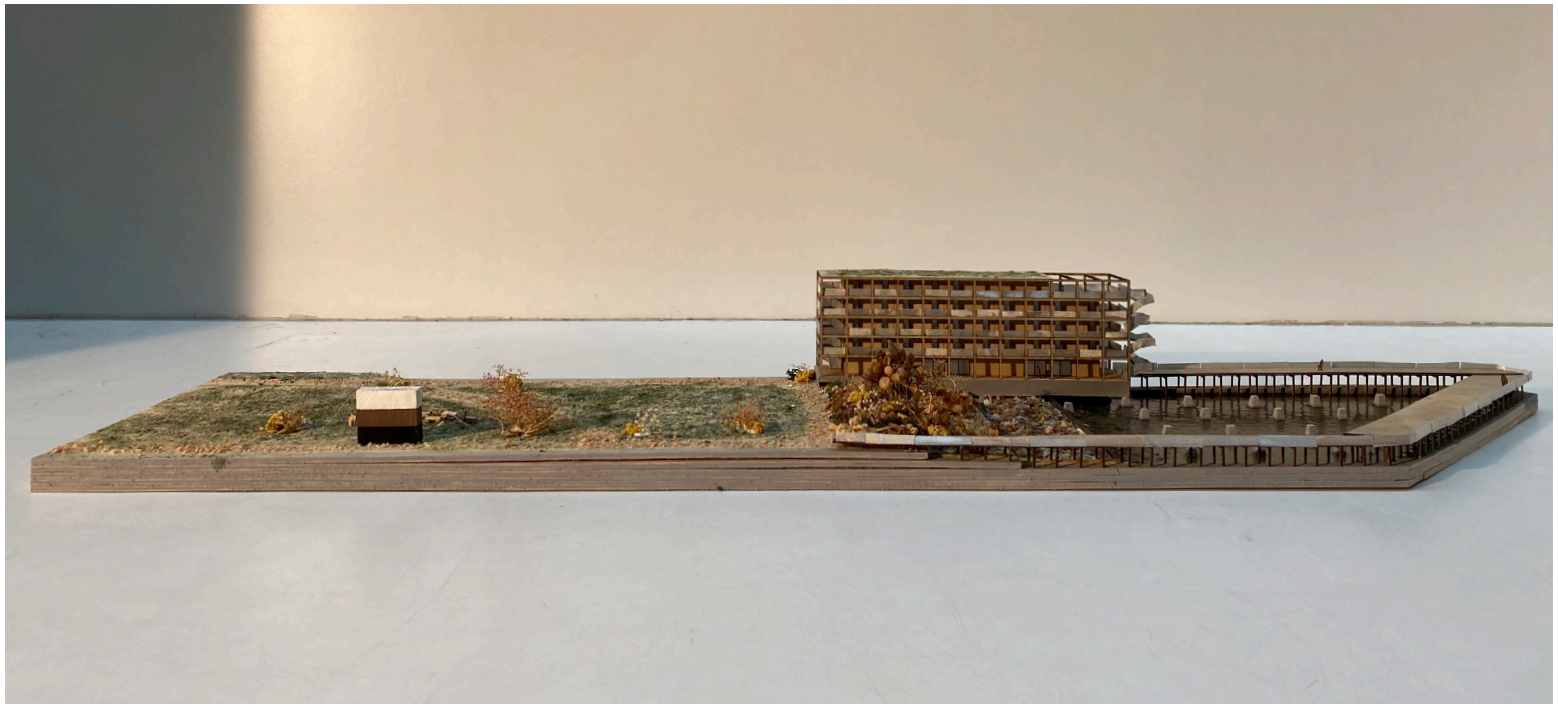


climate - ventilation



floor plan installations

Stenen Hoofd redifined



THANK YOU