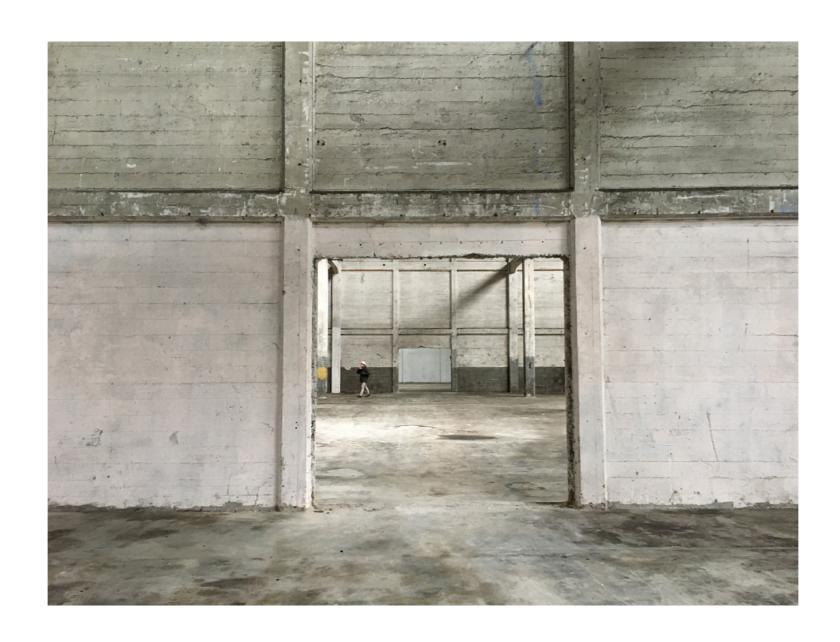
KATOENVEEM

heritage and architecture

harbour heritage

P5 17.04.18

Lidy Meijers Bas Gremmen Nicholas Clarke André Ouwehand



FROM COTTON WAREHOUSE TO CULTURAL & LEISURE CENTRE

Jan Huis in 't Veld

content

P5

introduction

analysis & research

values & concept

design

conclusions

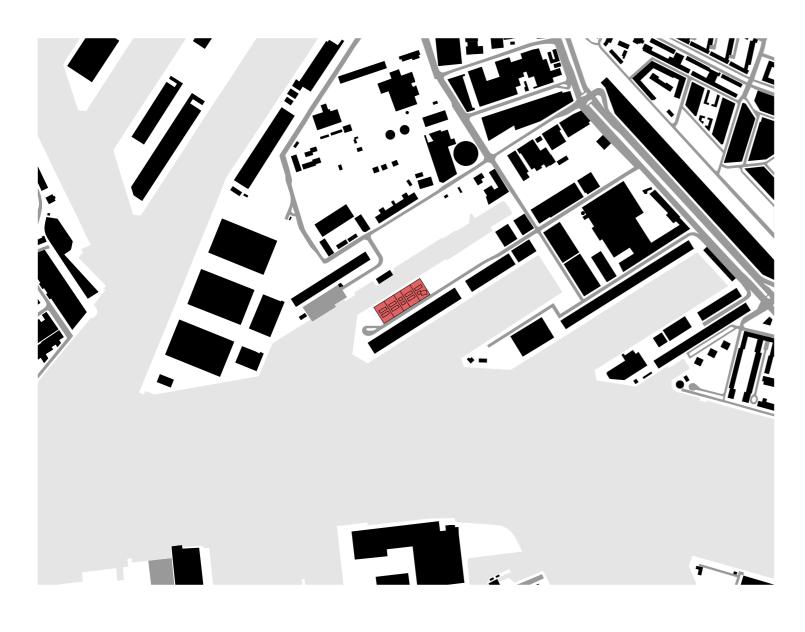
theme

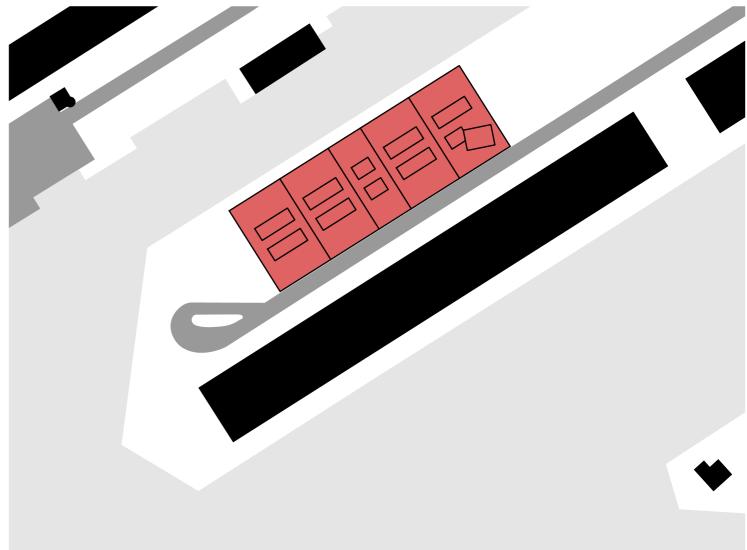
heritage & architecture: transformation in the Rotterdam harbour

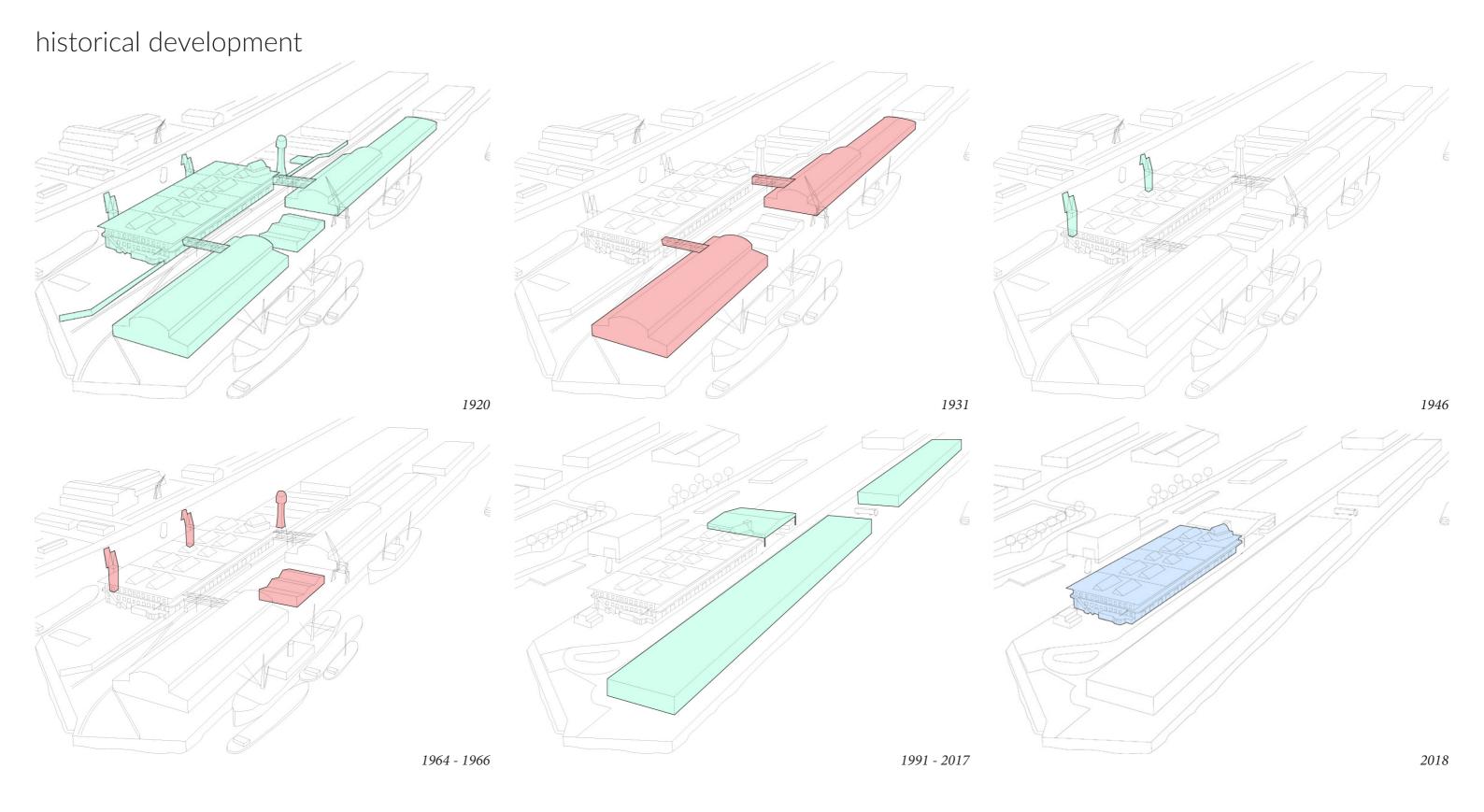


all illustrations are of own creation, unless differently stated all photographs have been taken by group members, Audrey, Joost, Elmer and Xihao

site





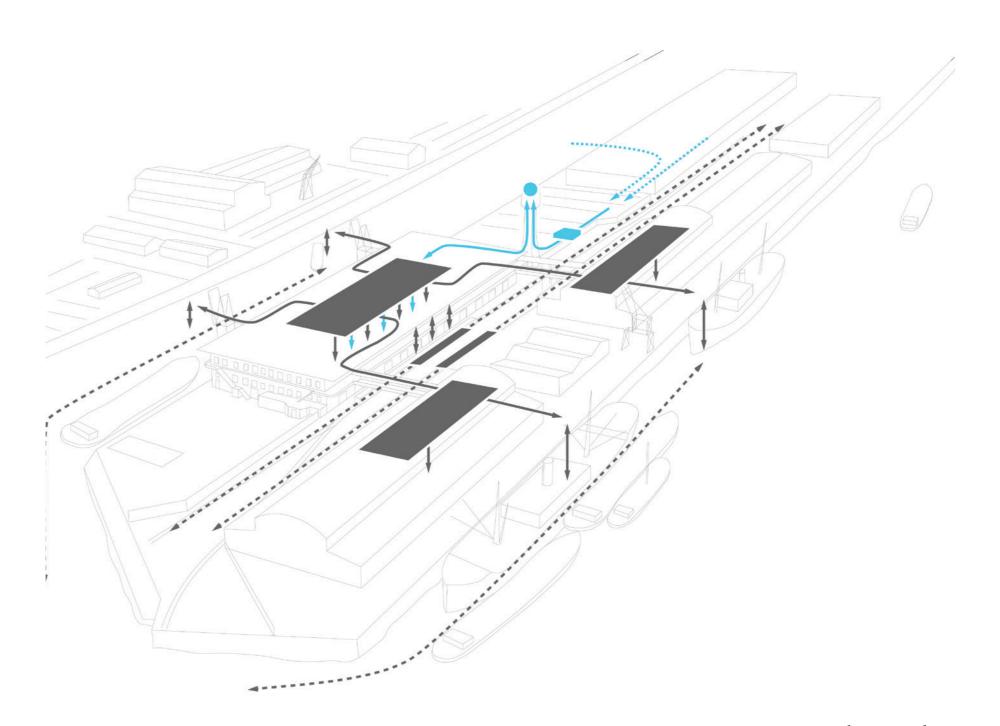


cotton transshipment

Katoenveem was part of a comprehensive network

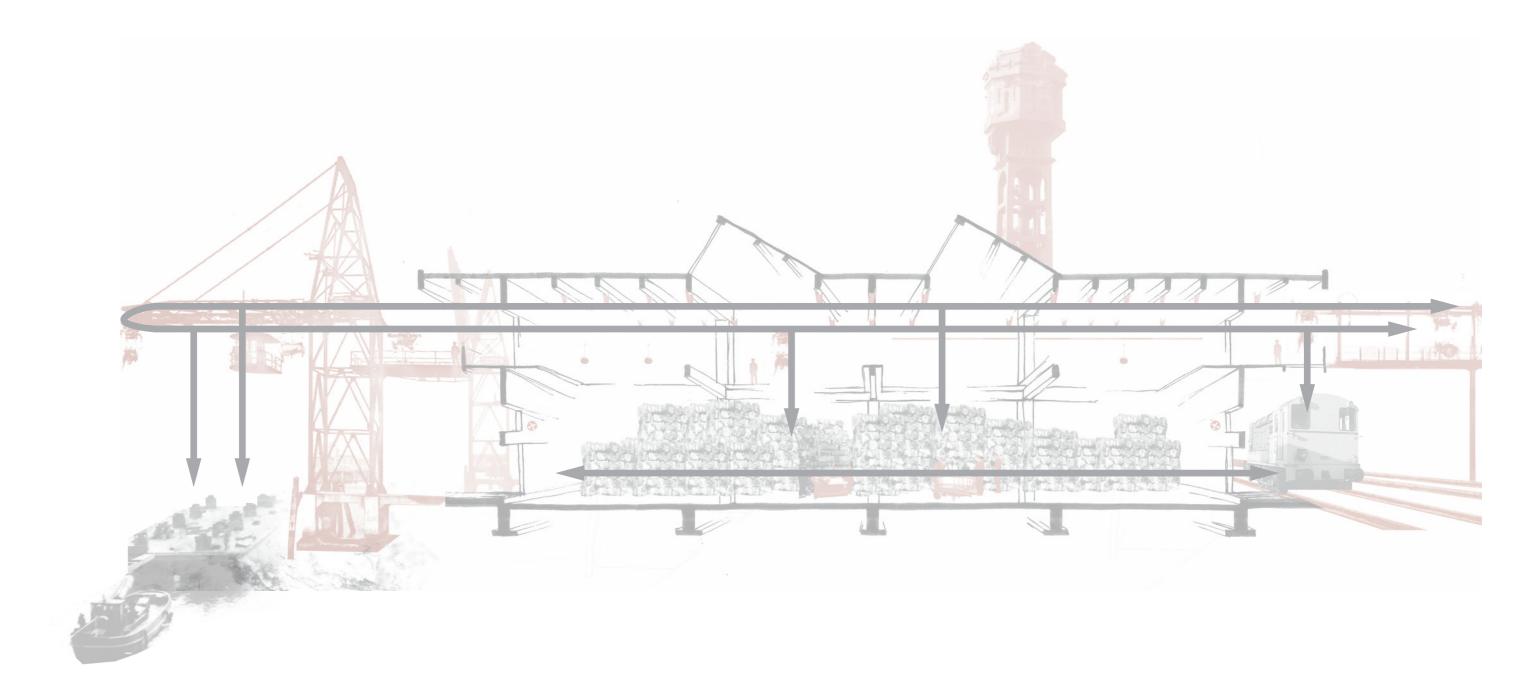
Combined the buildings operated as a machine

Design followed the functionality of the system



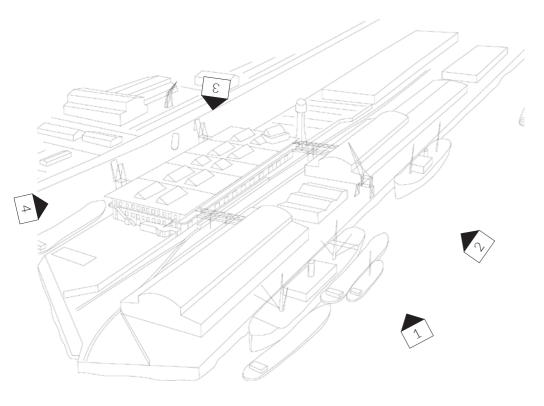
cotton transshipment - scheme

cotton transshipment



cotton transshipment - section (adaptation illustration Audrey Loef)

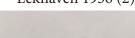
cotton transshipment







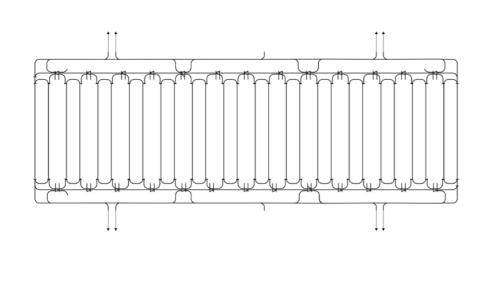


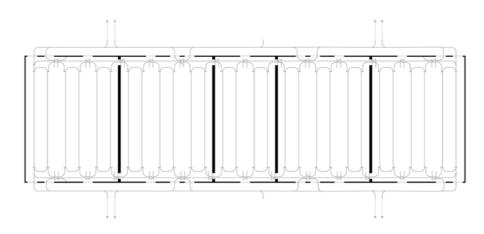


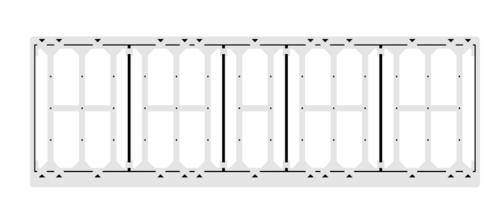


Keilehaven 1933 (4) (old photographs Rotterdam archive)

space plan



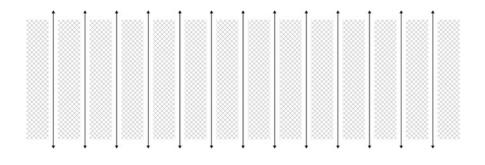


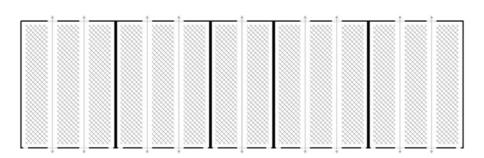


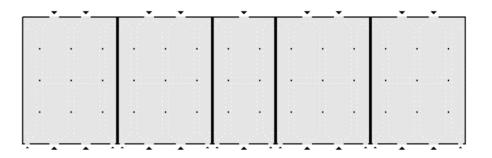
first floor - function

first floor - compartments

first floor - plan





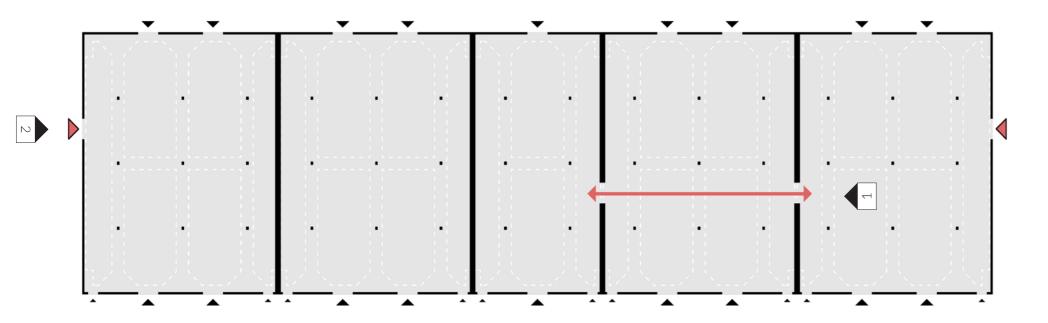


ground floor - function

ground floor - compartments

ground floor - plan

space plan



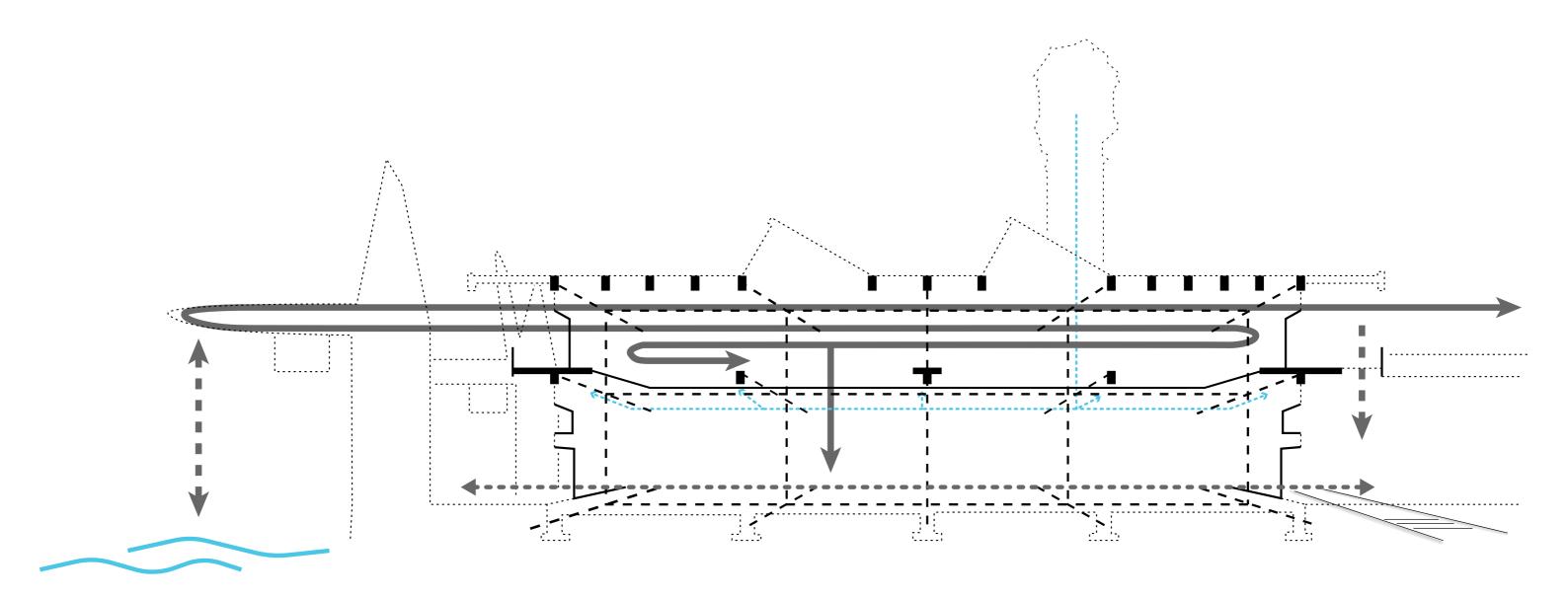


compartment wall opening (1)



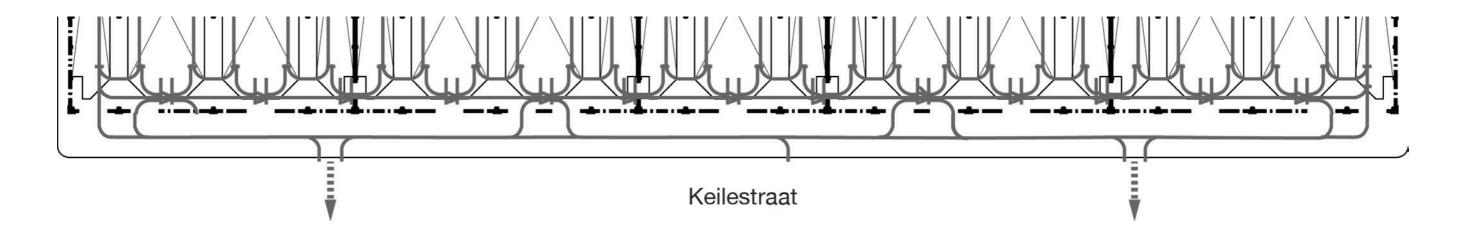
head facade opening

space plan

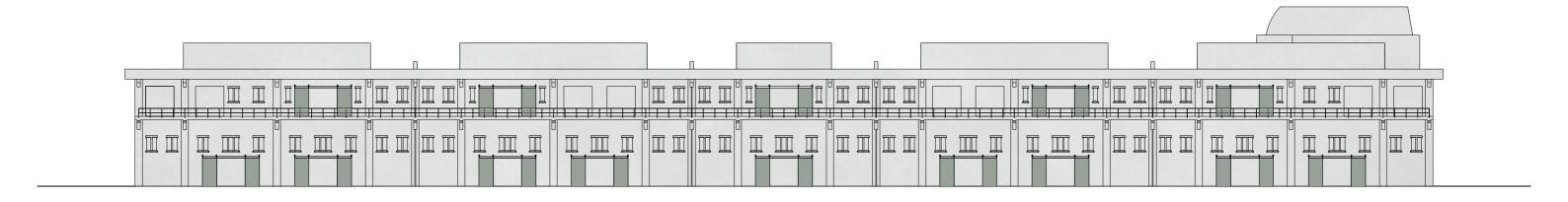


compartment section (adaptation illustration Audrey Loef)

skin



conveyor system - plan

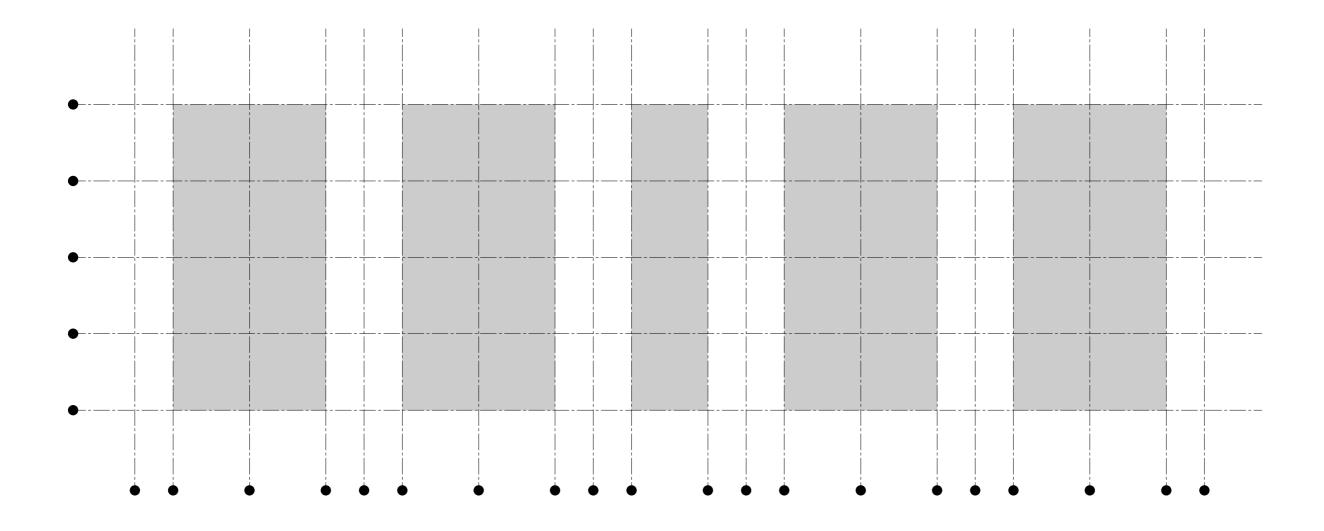


keilestraat facade - elevation

skin



structure

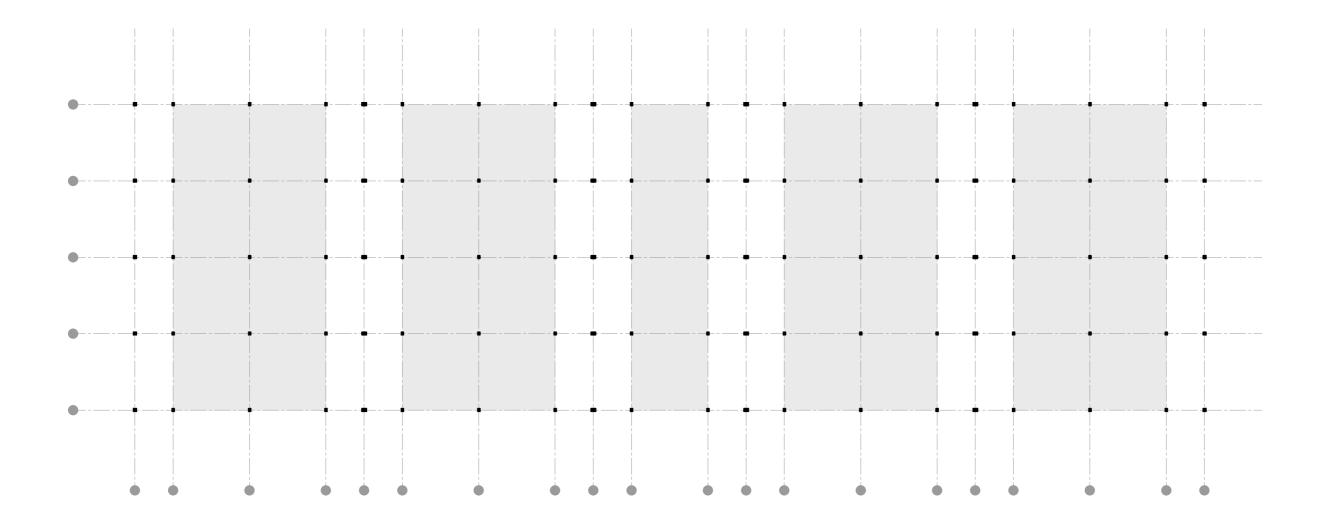


grid

full grid : 10050mm x 10050mm

half grid: 10050mm x 5025mm

structure

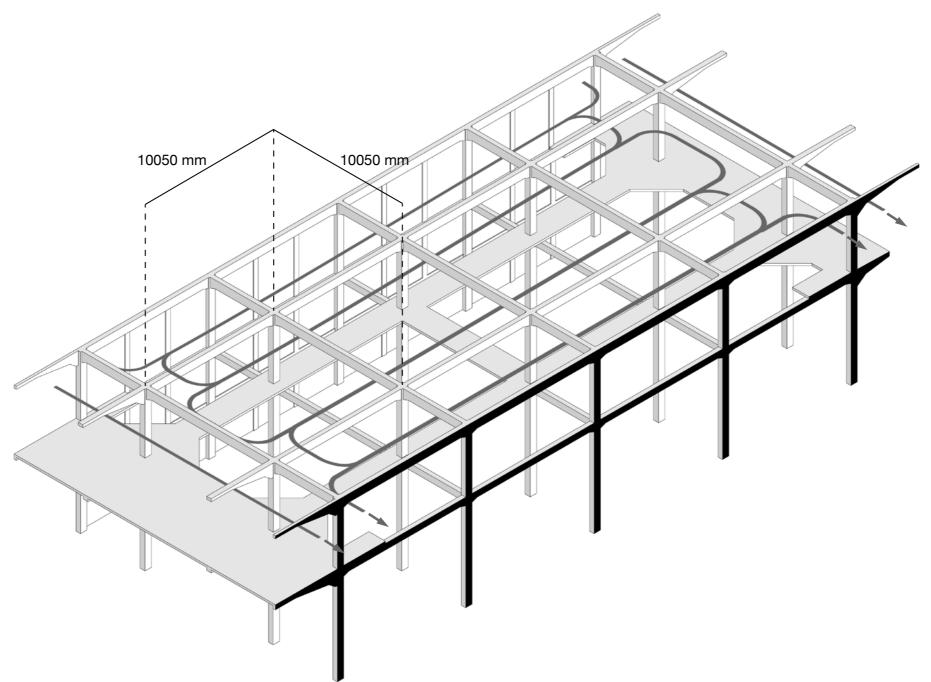


ground floor - structure

structure

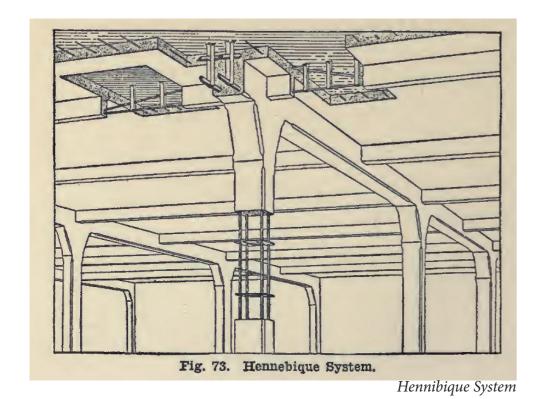
grid is related to the size of Egyptian cotton bales

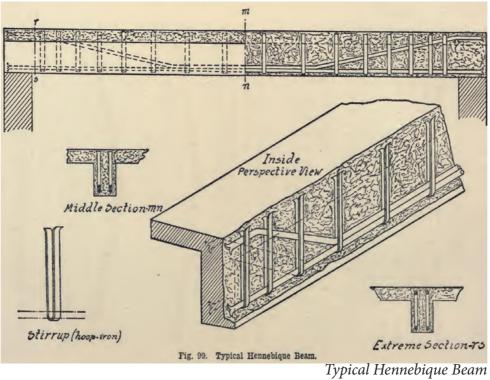
structure is designed to enable optimal functionality of the conveyor system

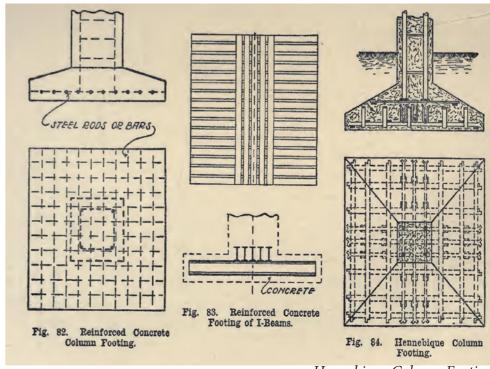


3D compartment - structure

structure







Hennebique Column Footing (illustrations from Radford's Cyclopedia of Construction)

structure



research

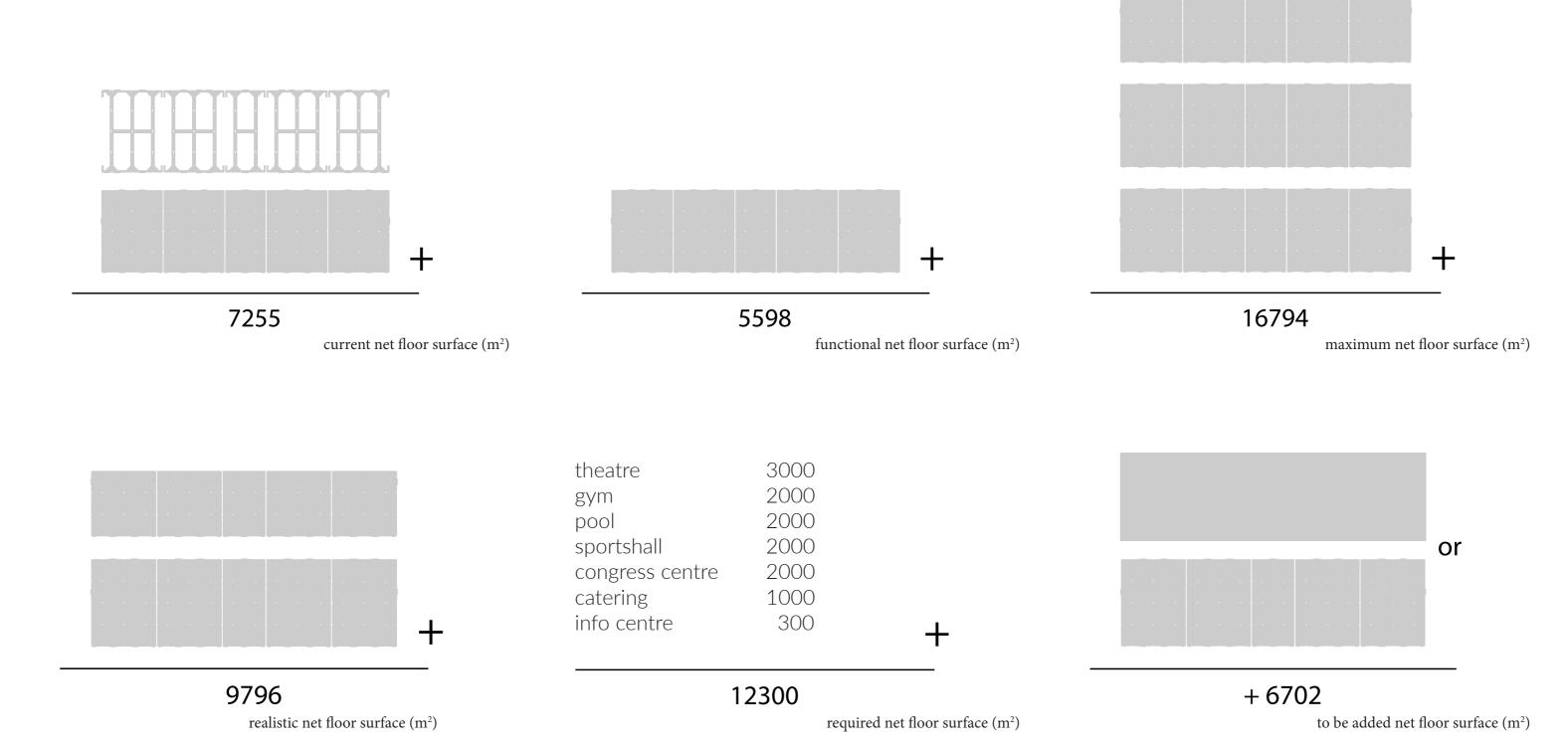
urban

redevelopment in near future
working, living and studying
green areas and circulation

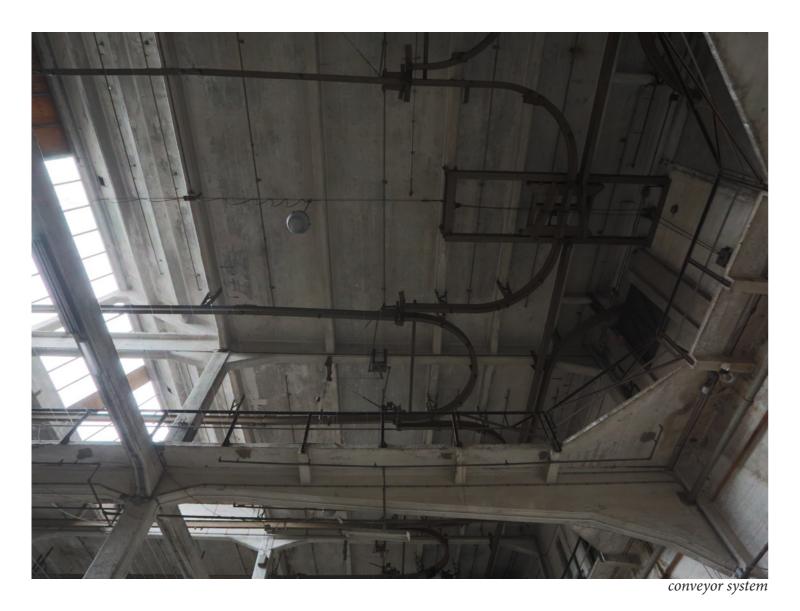


research

program



historic services





historic services will be maintained were possible

services will only be used if at all functional

historic complex

tower

bridges

wall



restoration





application of repair morter



application of spray concrete

severe damages to concrete facade and steel doors

restore shape with repair morter

finish with layer of spray concrete in Agate Grey colour (3052) take of rusted layers top layer repaint in green colour

P

Jan Huis in 't Veld

preservation





visual representation repaired column

damages to interior structure not as severe as exterior

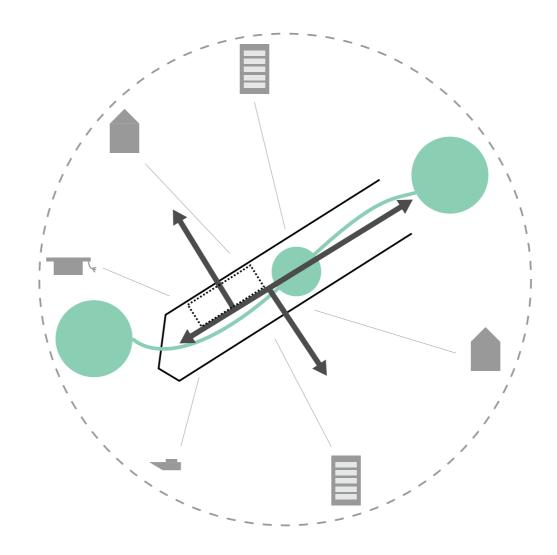
interior structure repaired with repair morter, only if structurally required

no extra finish is added

urban concept

connection to new green structure
bringing together different groups
node in new urban circulation

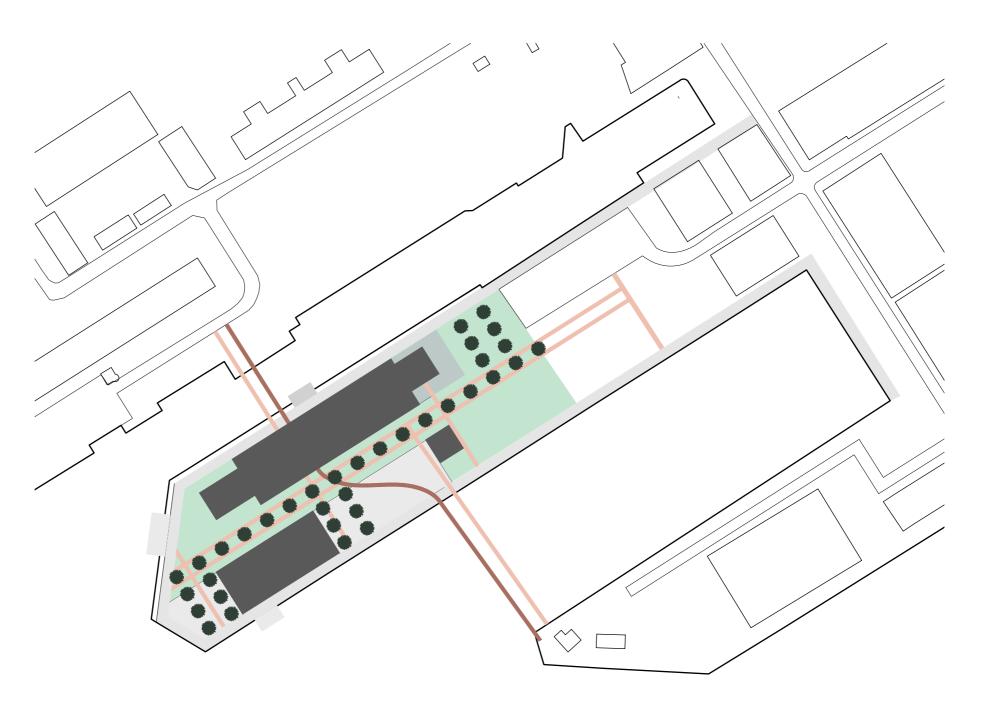






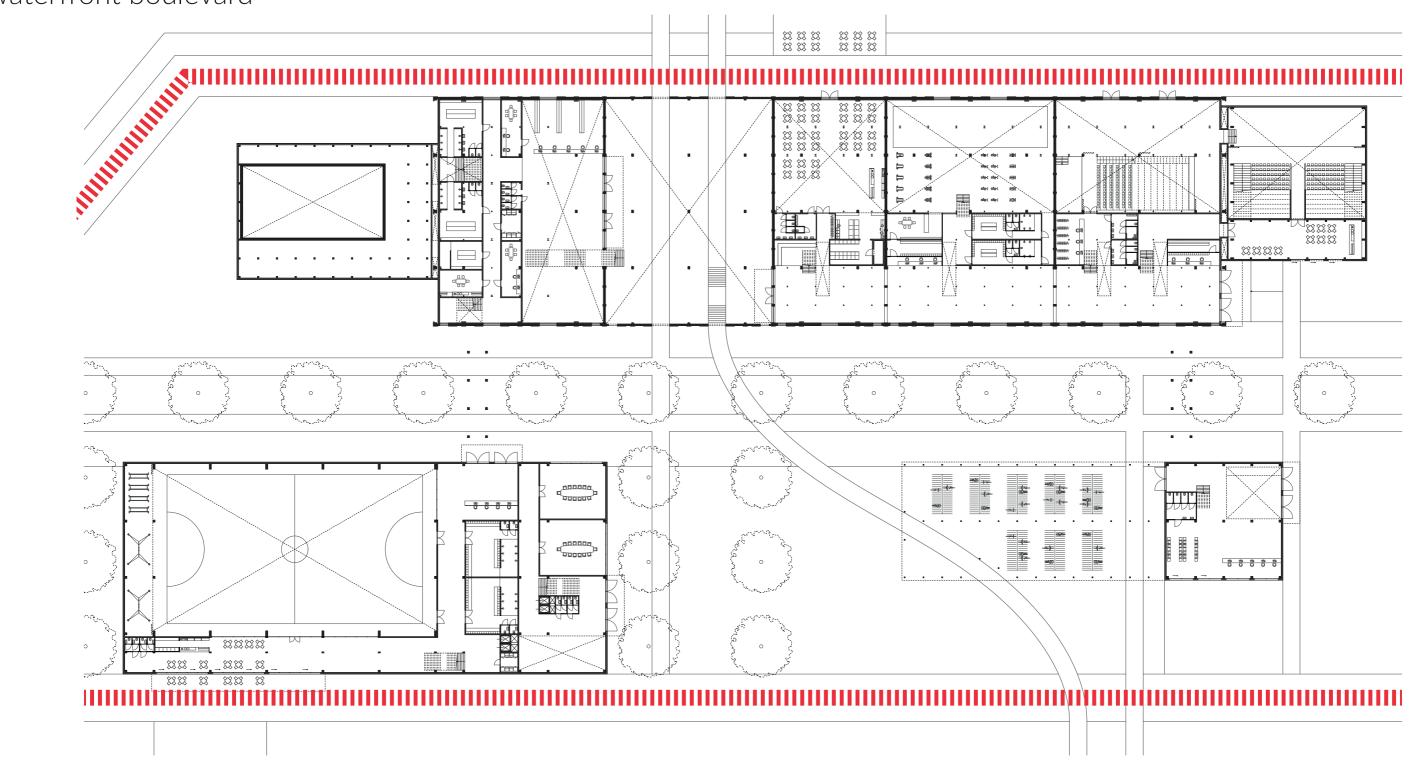
scheme - urban concept

master plan

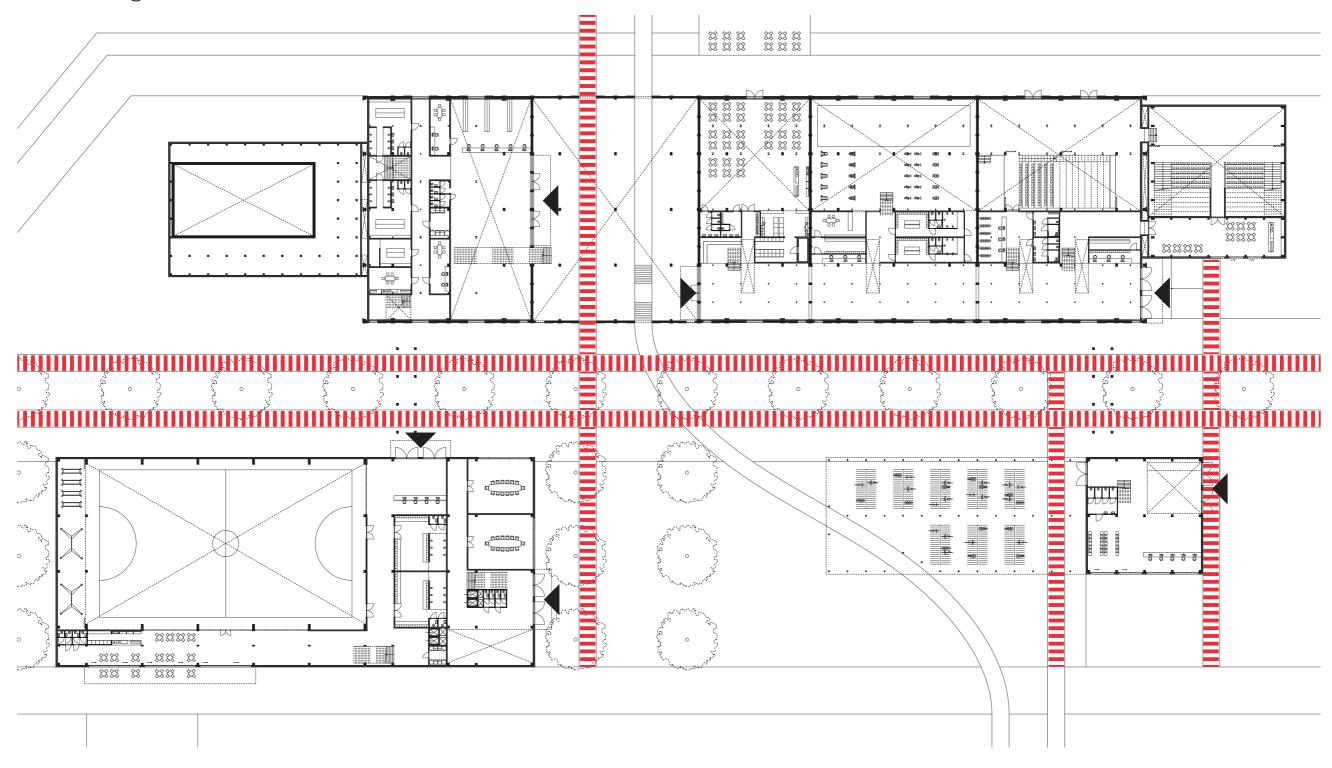


scheme - master plan

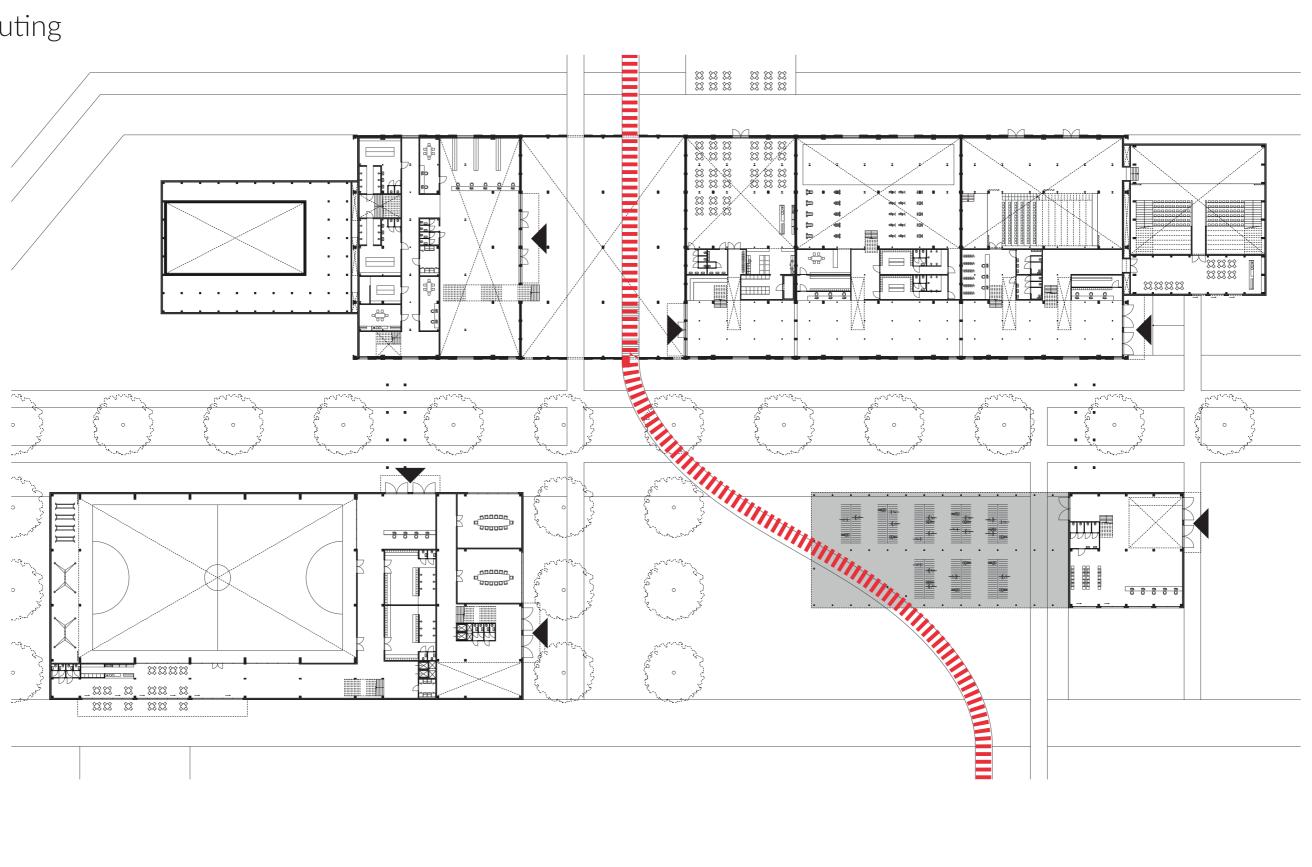
waterfront boulevard



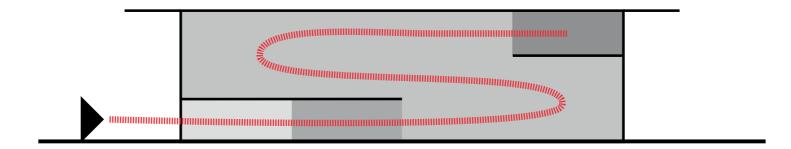
pedestrian routing



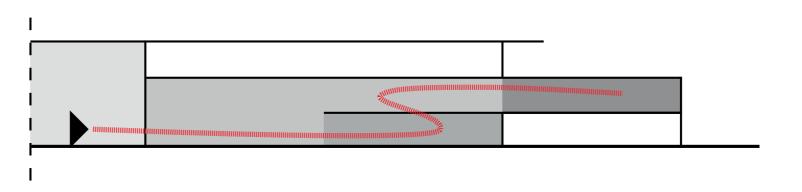
cycle routing



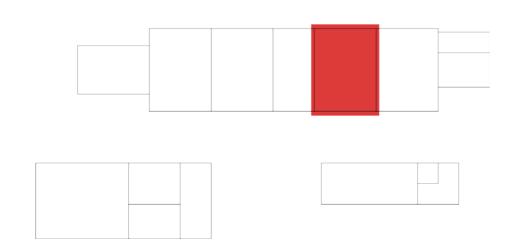
space plan concept

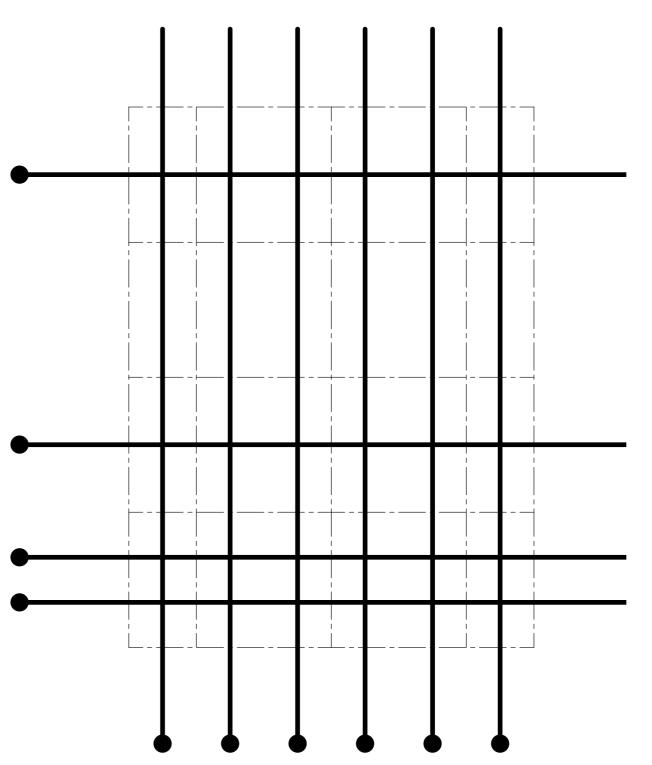


experience through zon



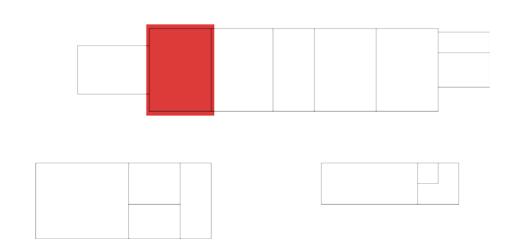
structure concept

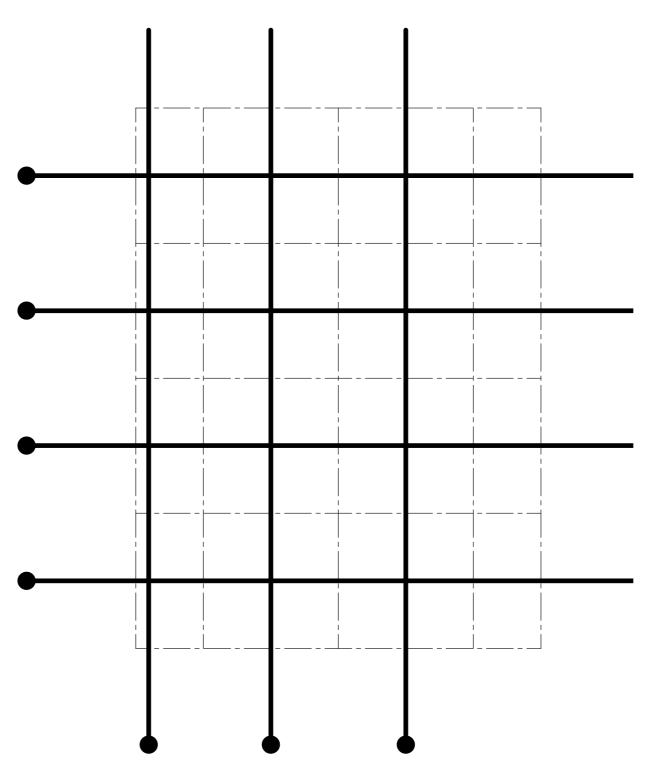




scheme - new grid structure 1

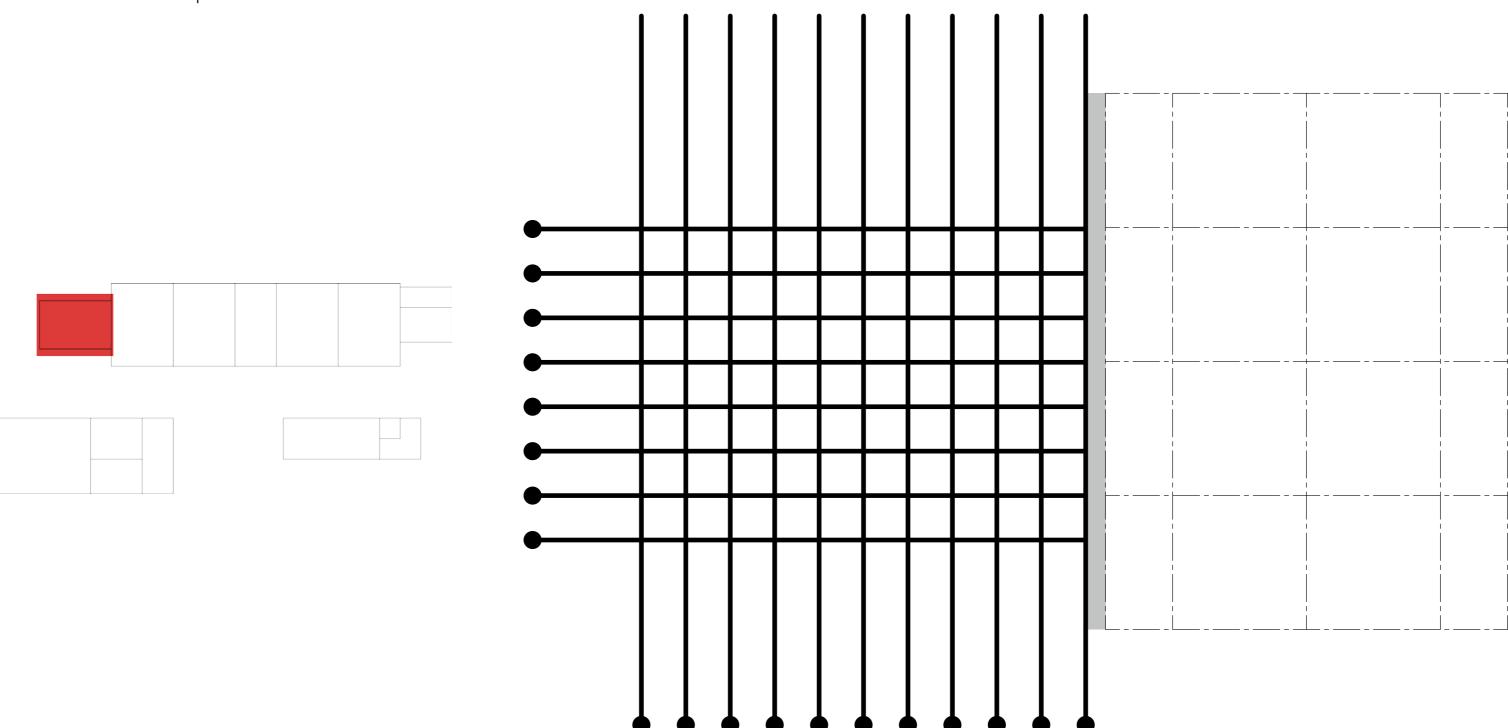
structure concept





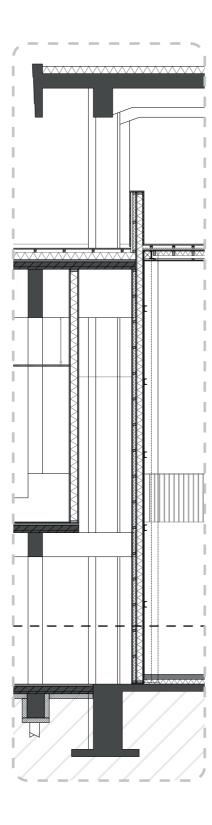
scheme - new grid structure 2

structure concept

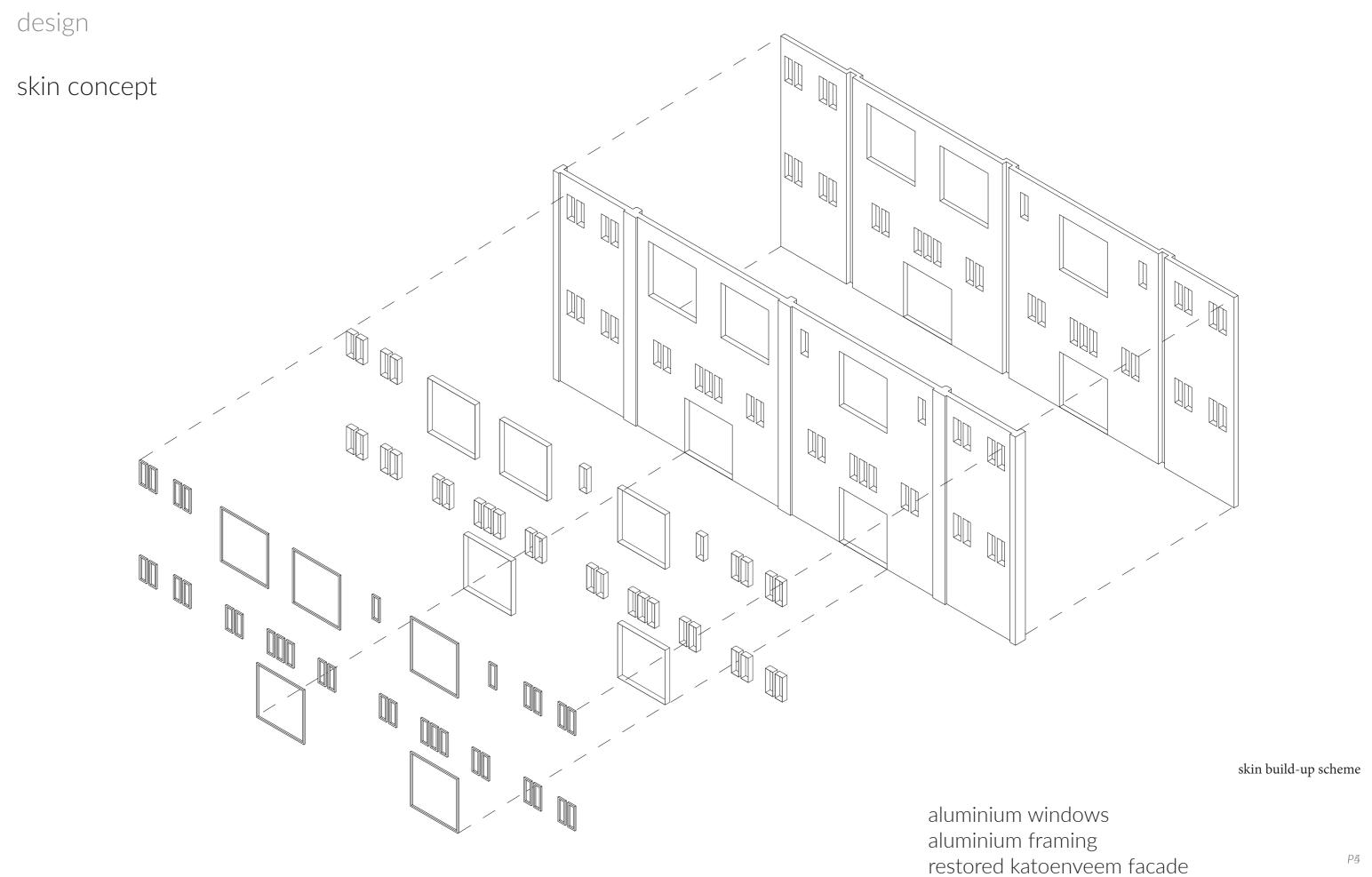


scheme - new grid structure 3

structure concept



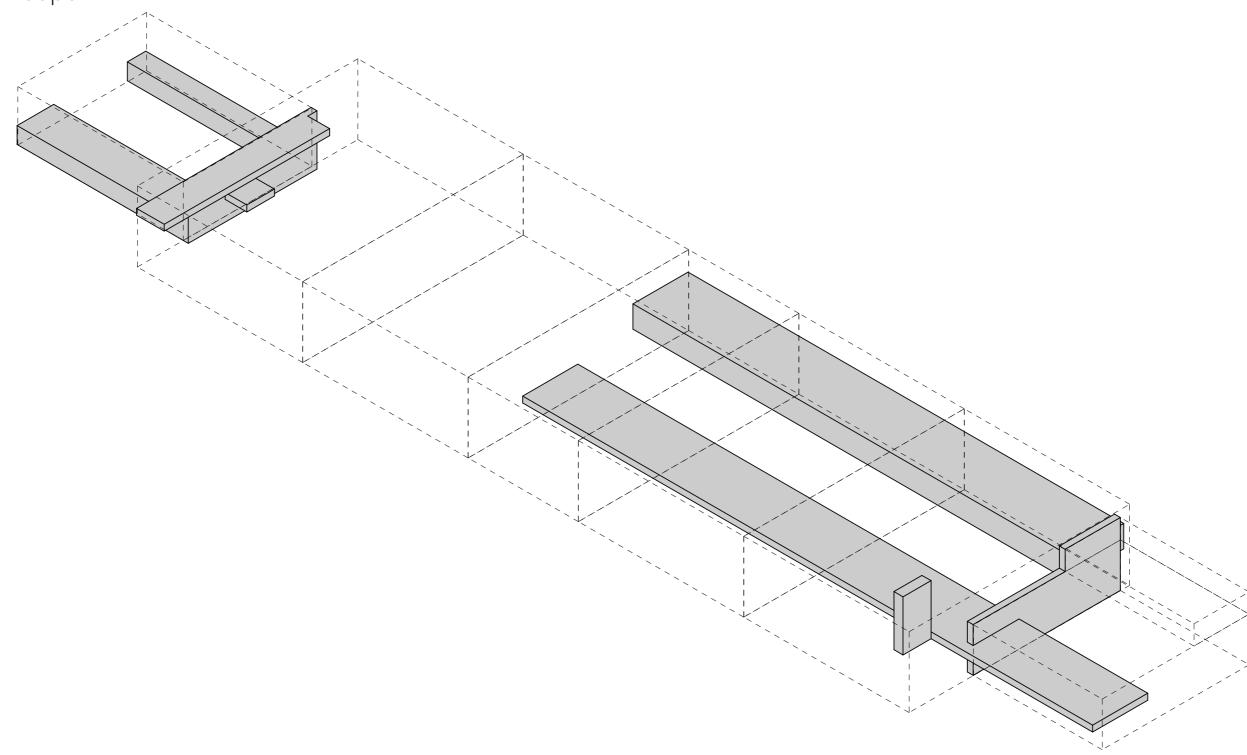
section - structural transition



Jan Huis in 't Veld

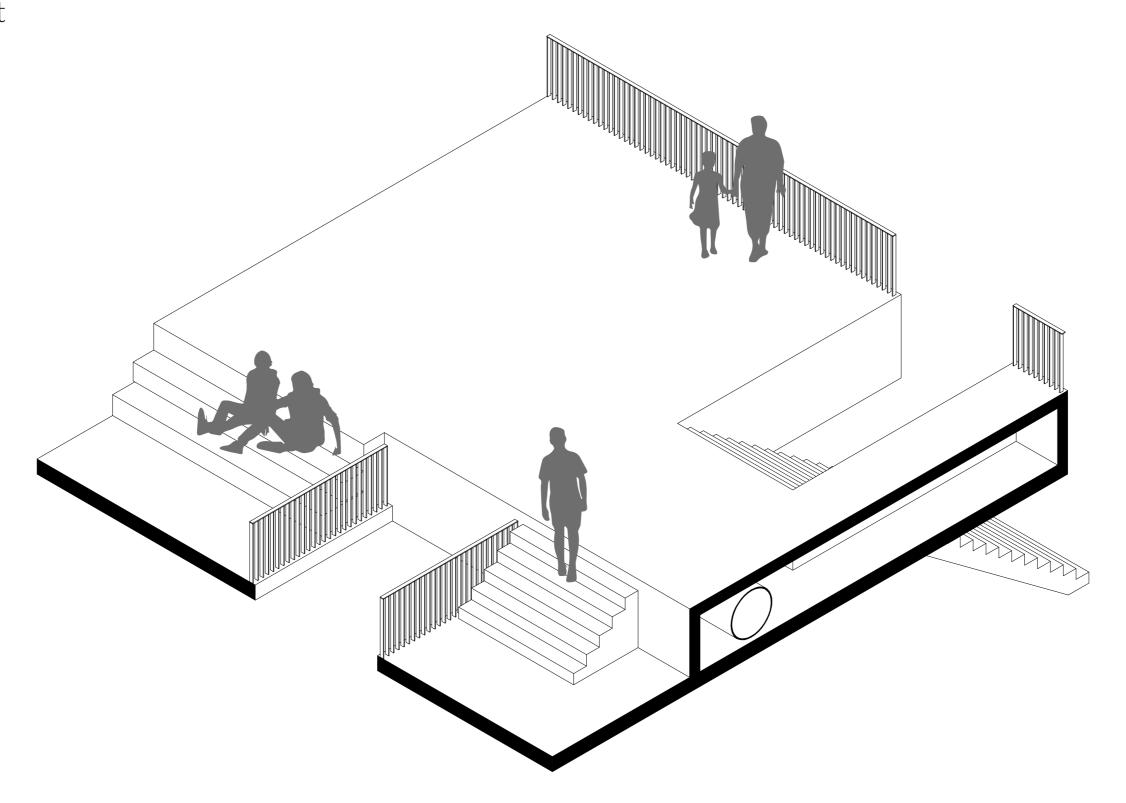
retention wall

climate concept



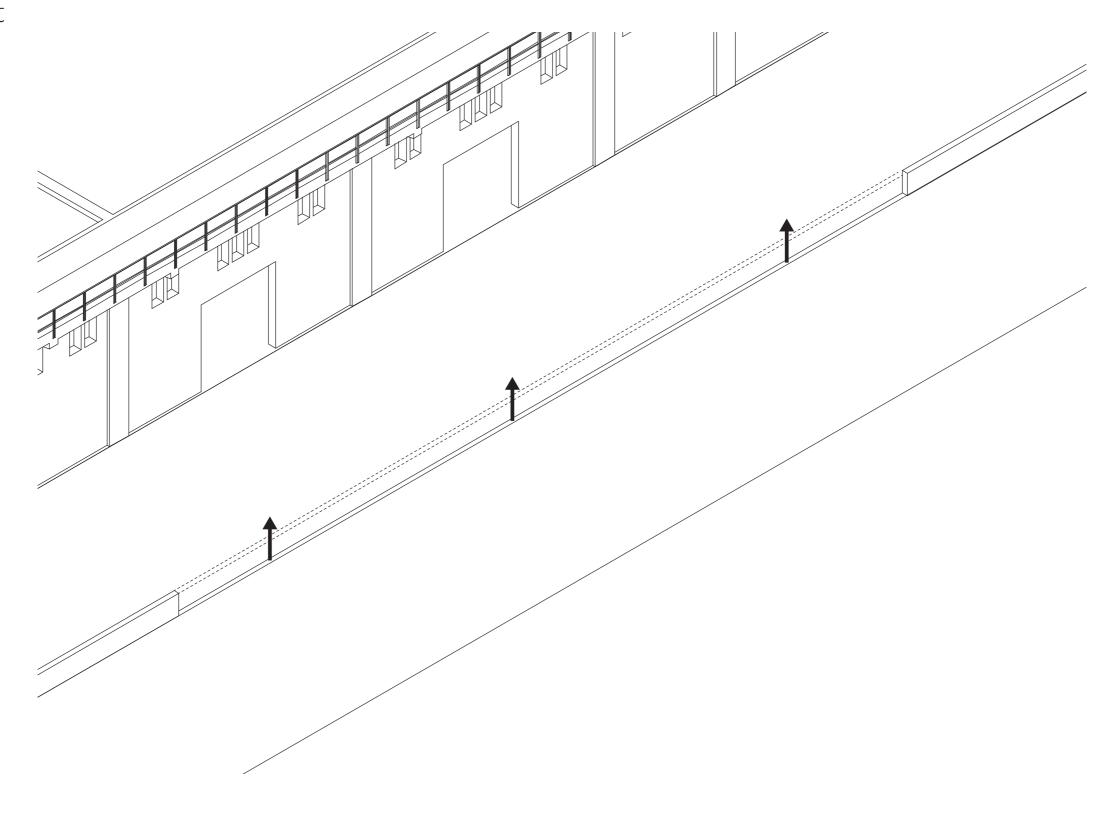
3D - shaft space

climate concept



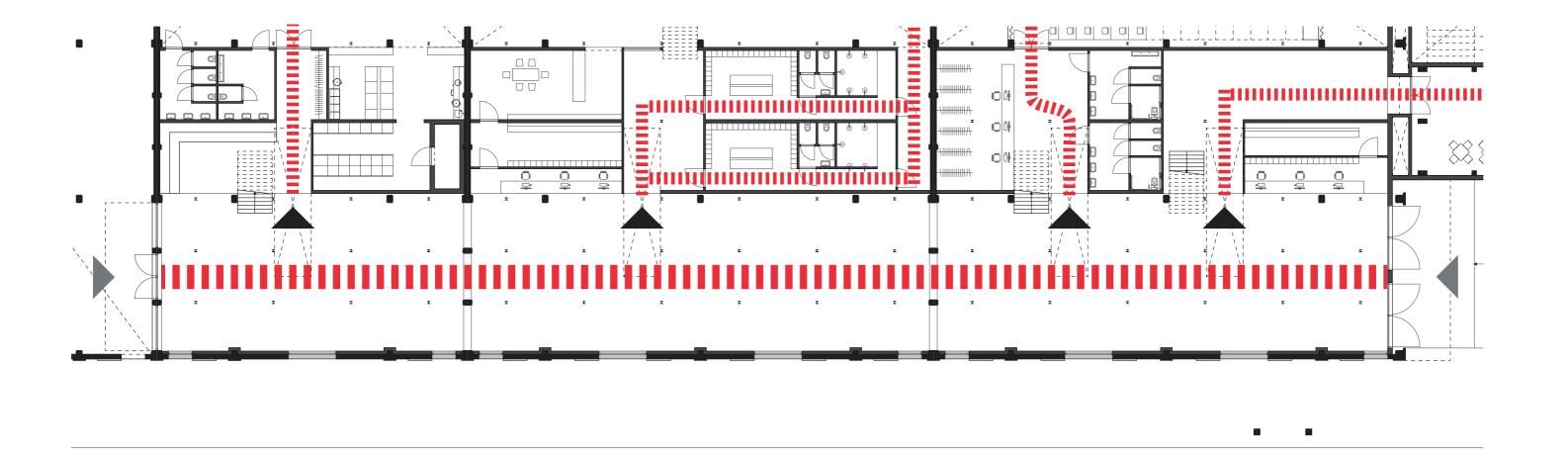
3D - shaft into interior

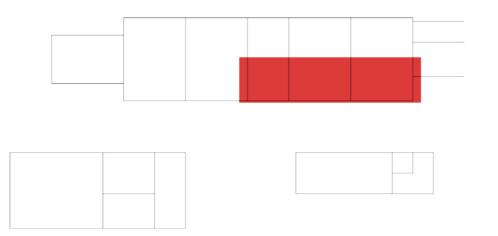
climate concept



3D - self-closing dam

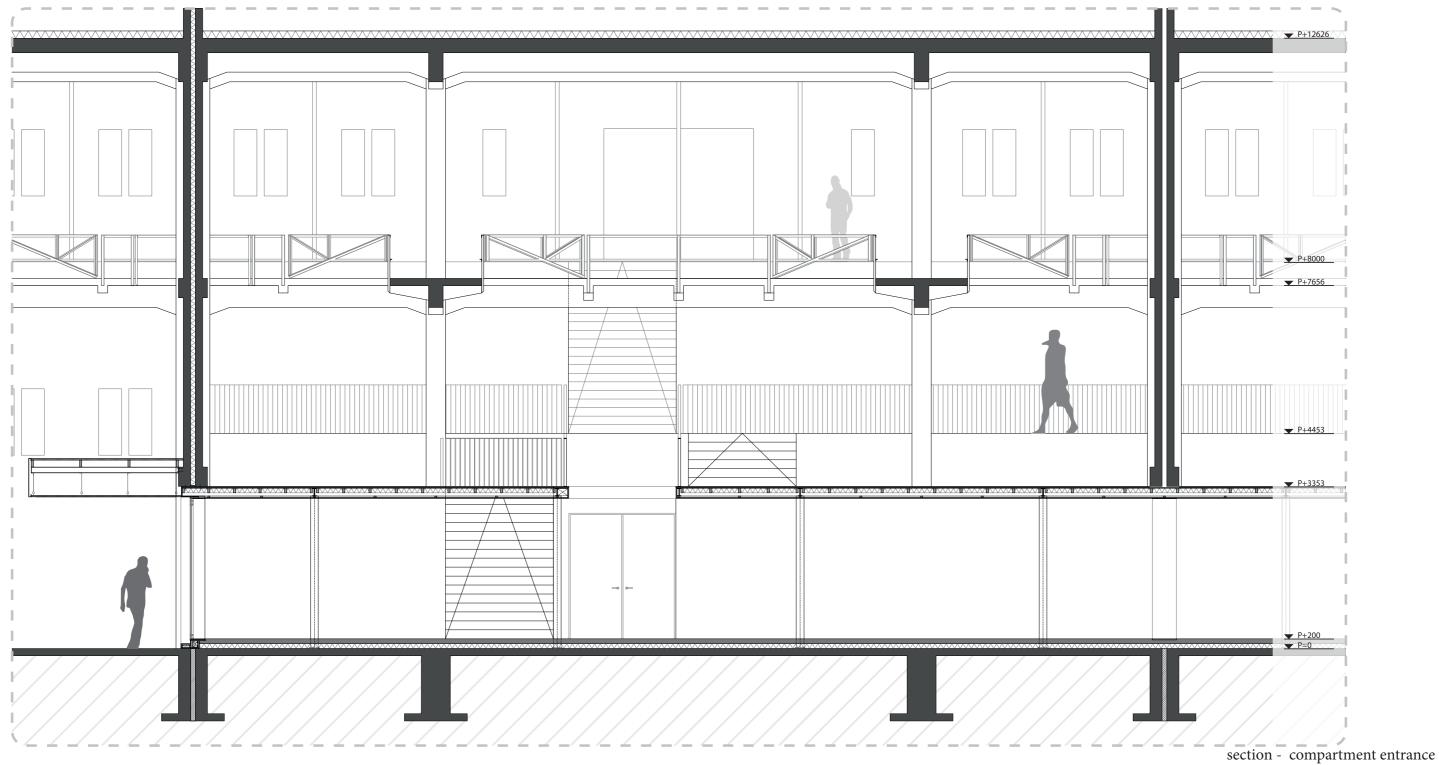
compartment entrance





ground floor

compartment entrance



material palette





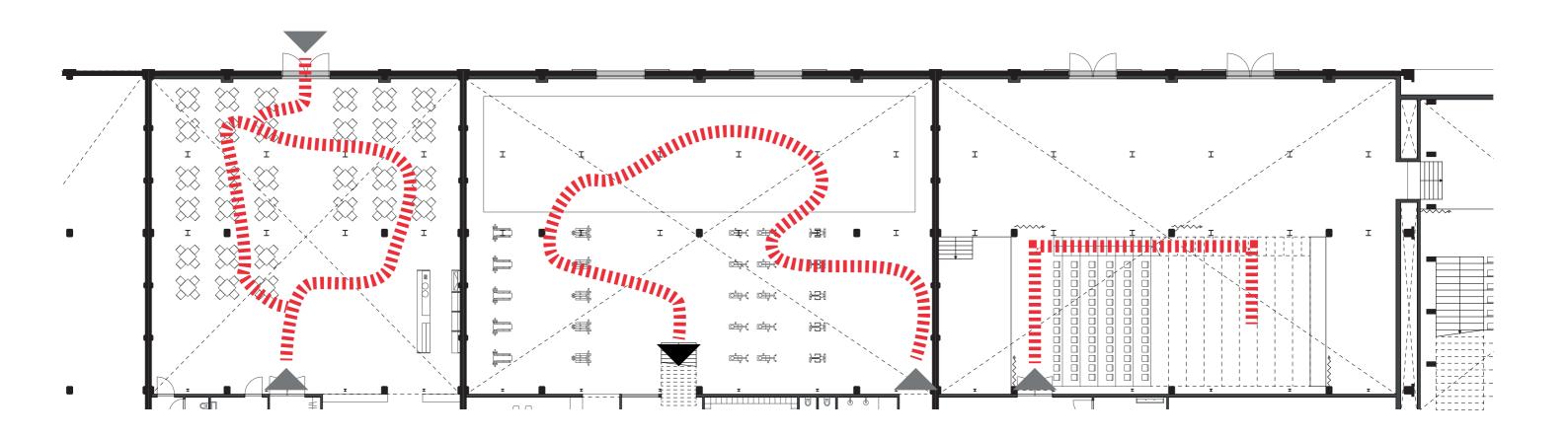


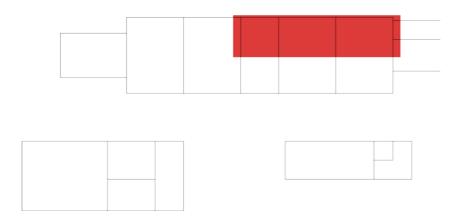


compartment entrance



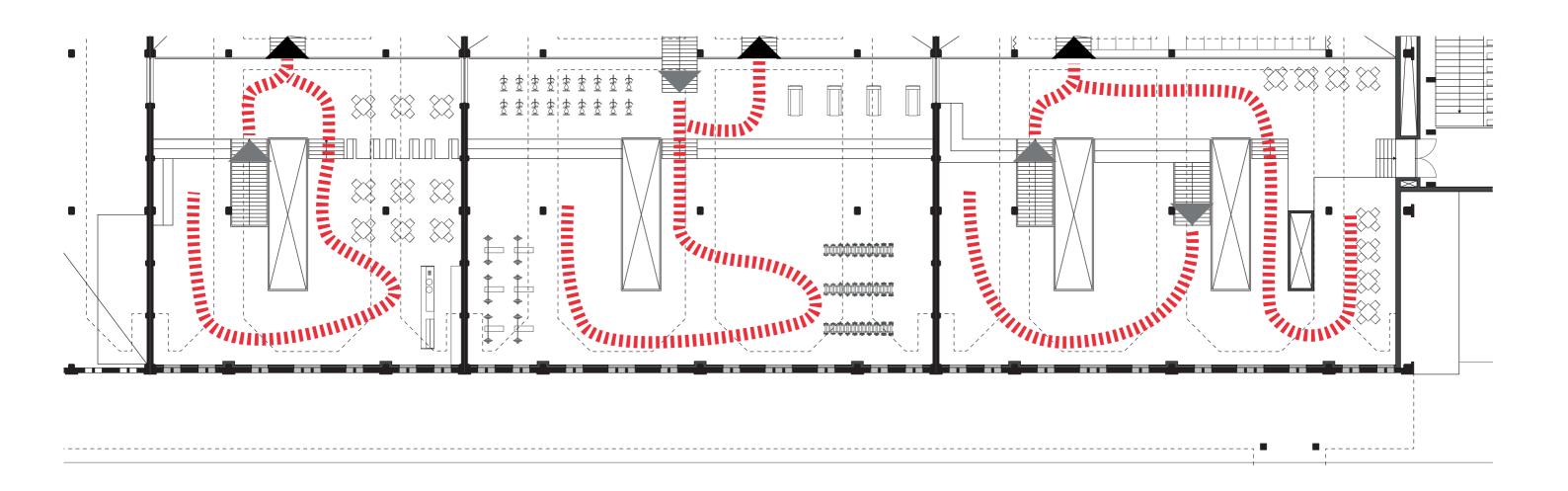
compartment activity zone

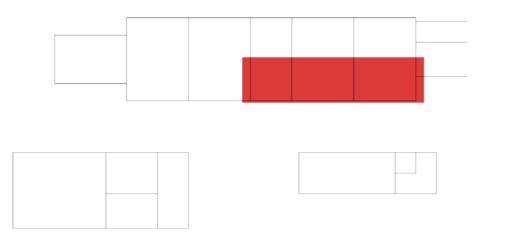




ground floor

compartment split level zone





first floor

material palette





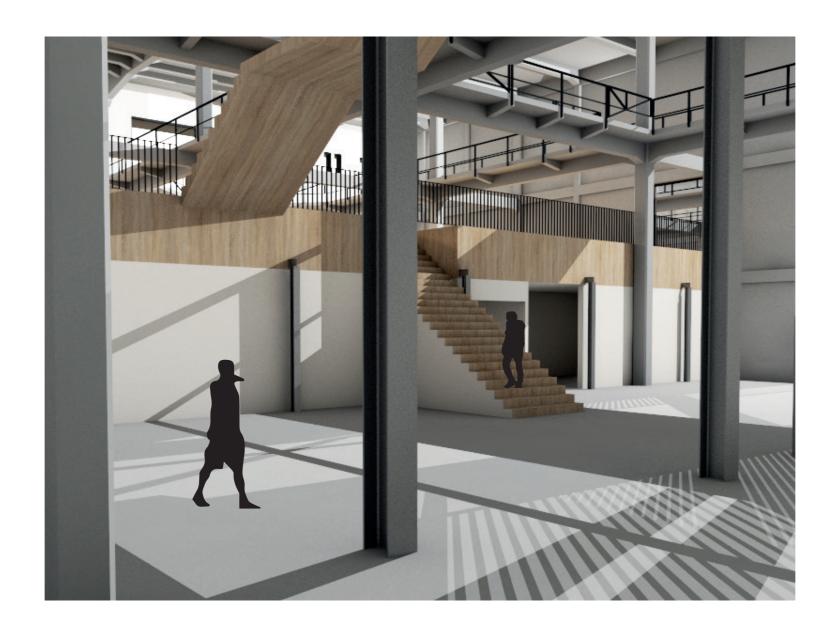






stucco

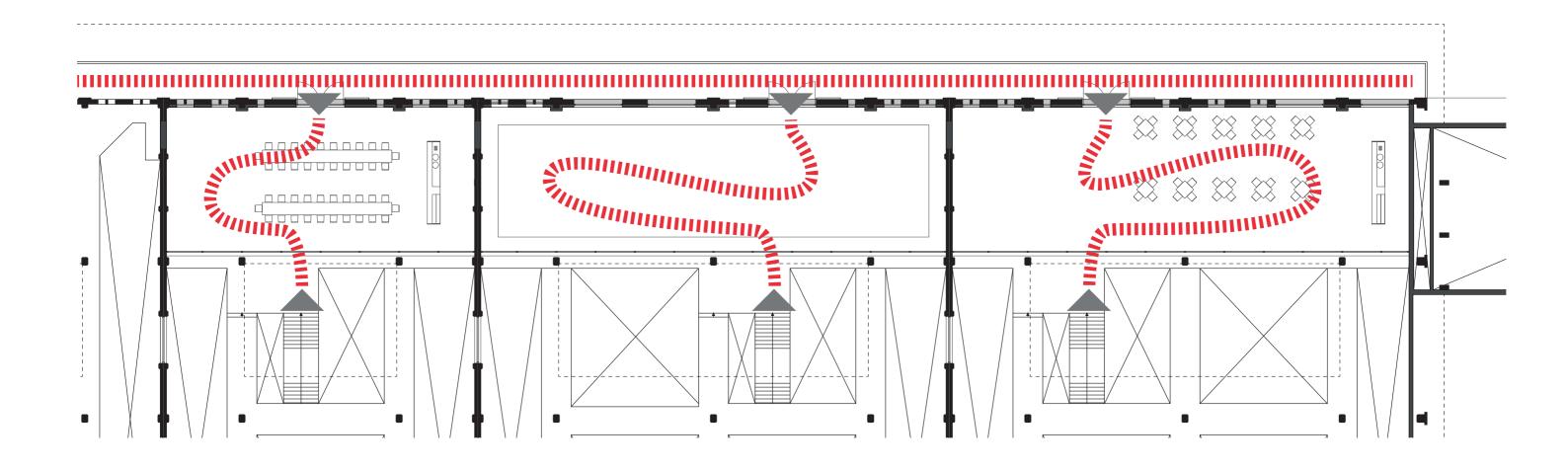
compartment activity zone

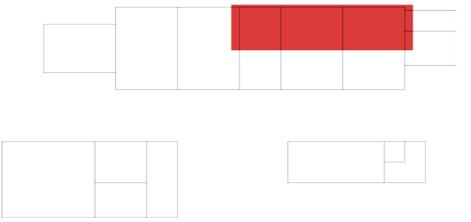


compartment split level zone



compartment view zone



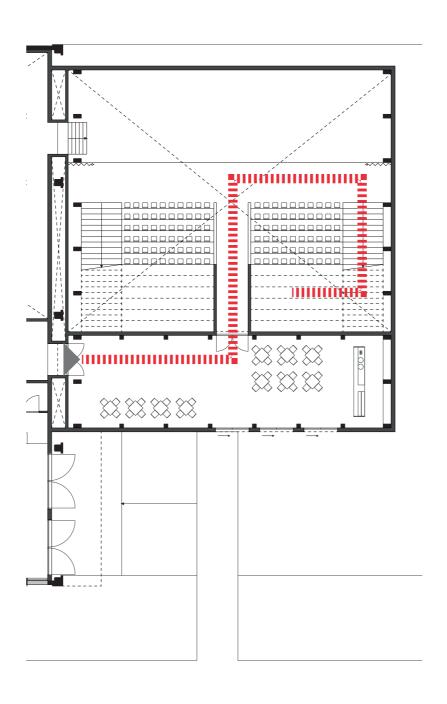


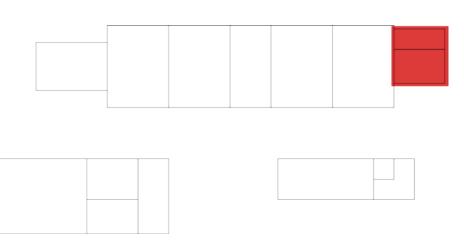
second floor

compartment view zone



theatre



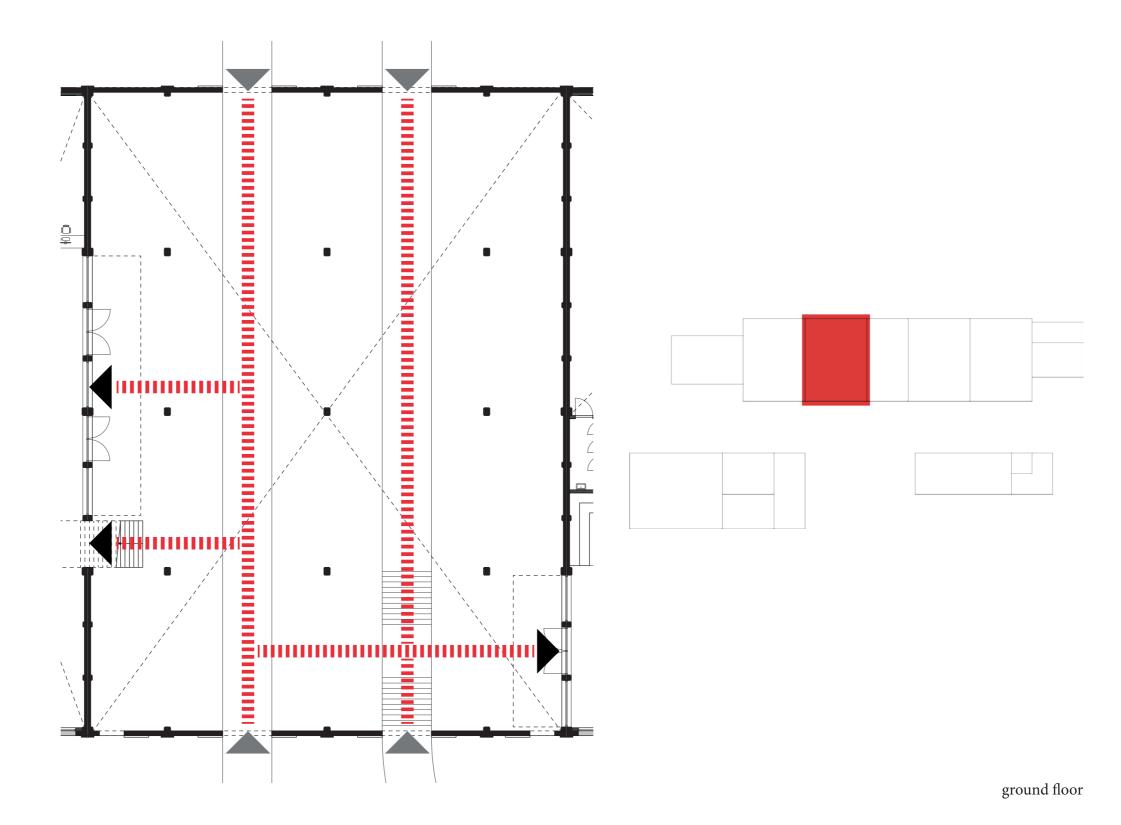


ground floor

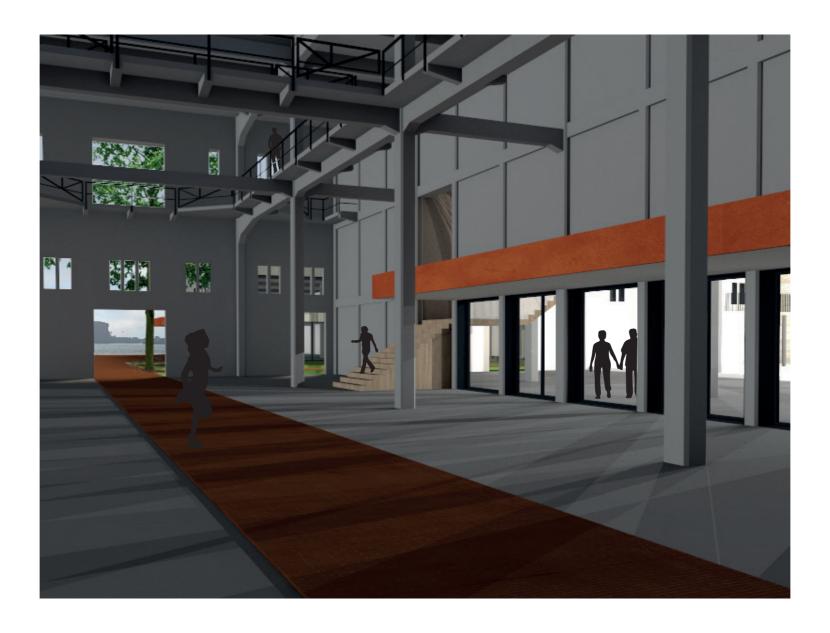
theatre



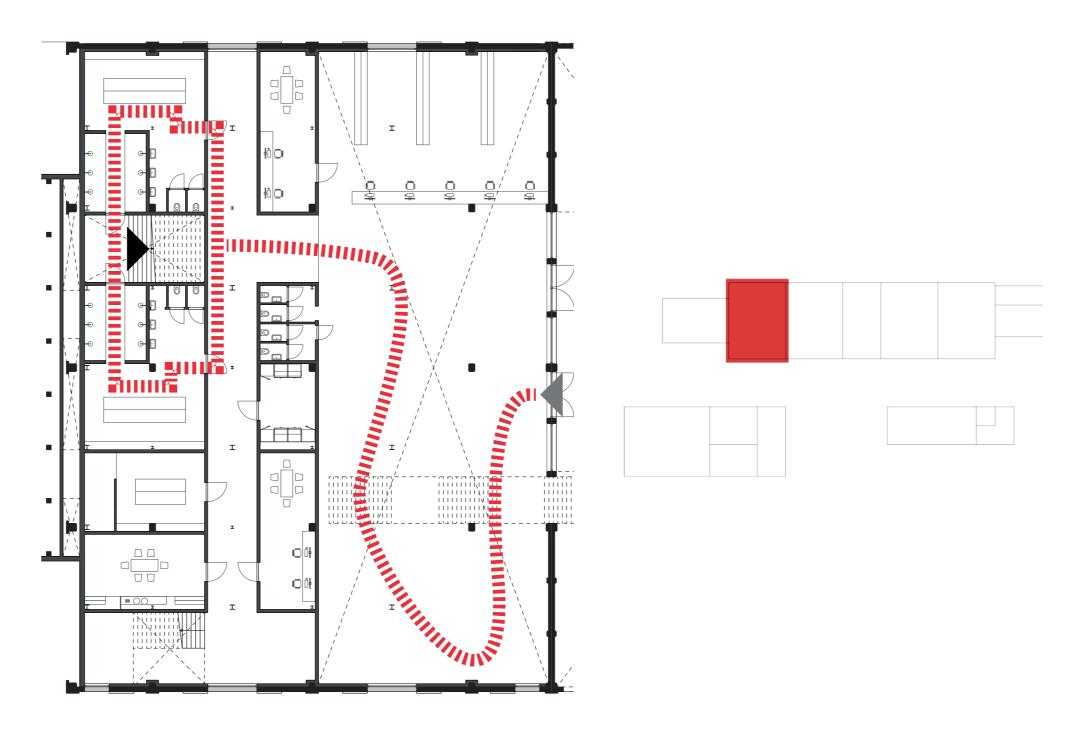
routing compartment



routing compartment



pool lobby

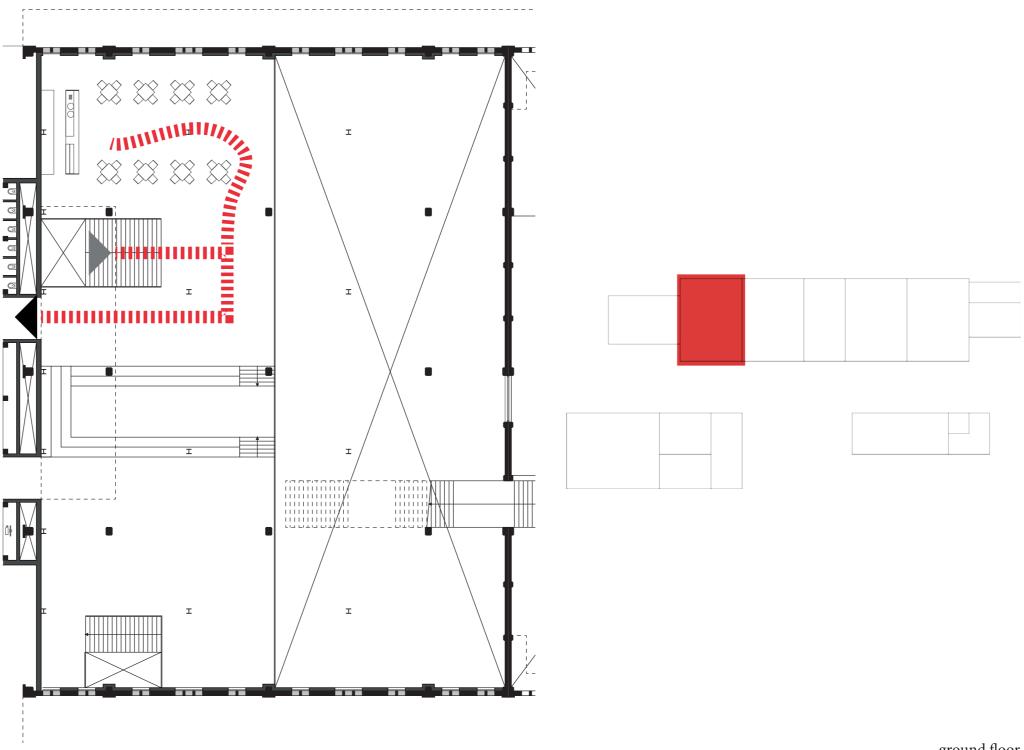


ground floor

pool lobby

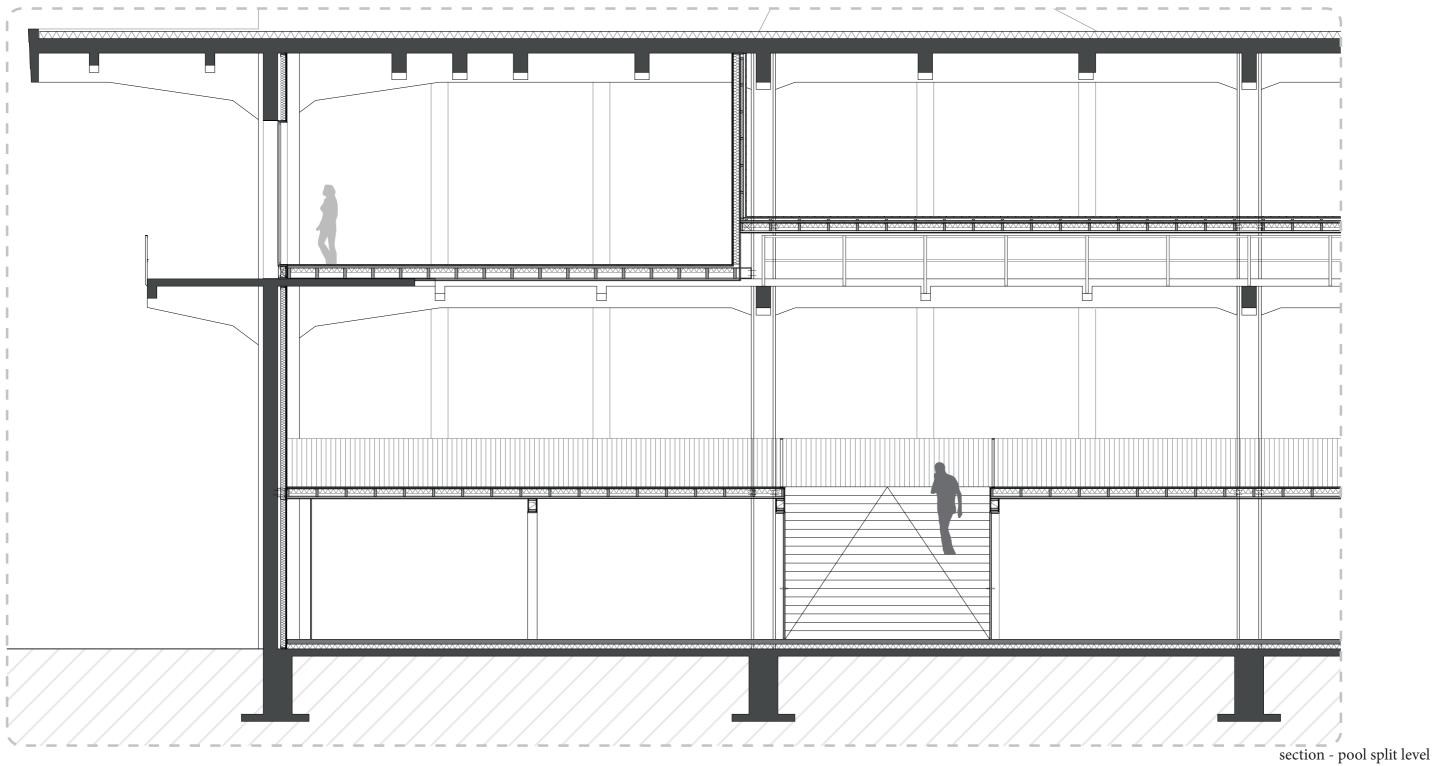


pool split level

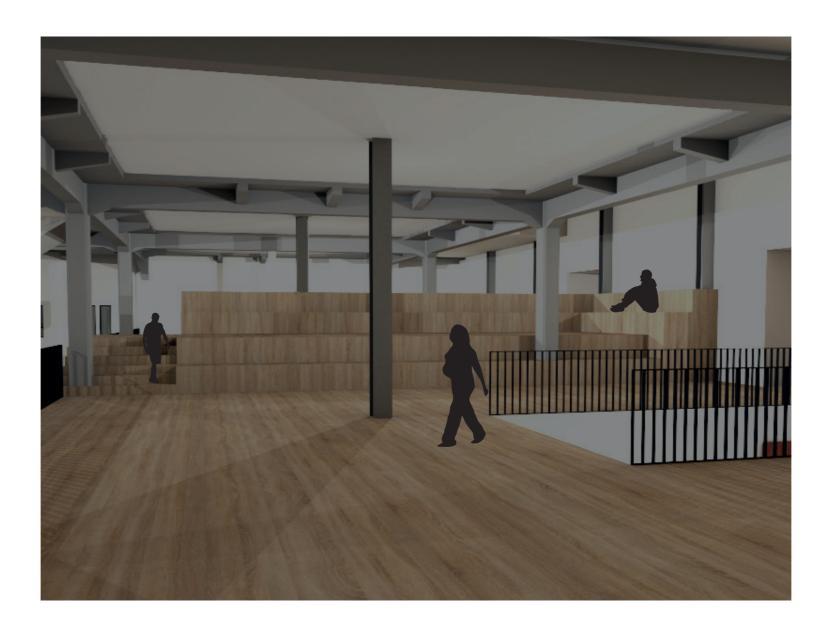


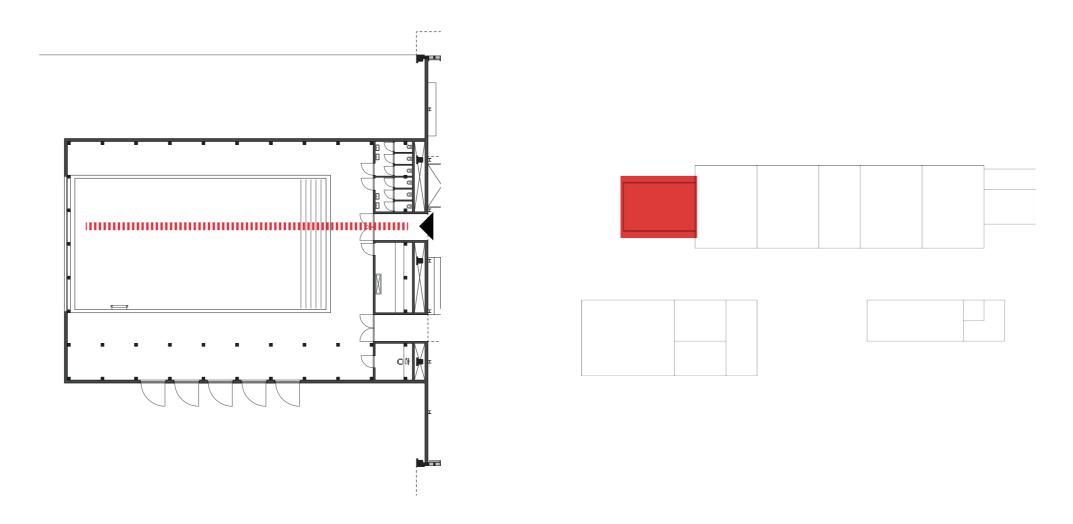
ground floor

pool split level

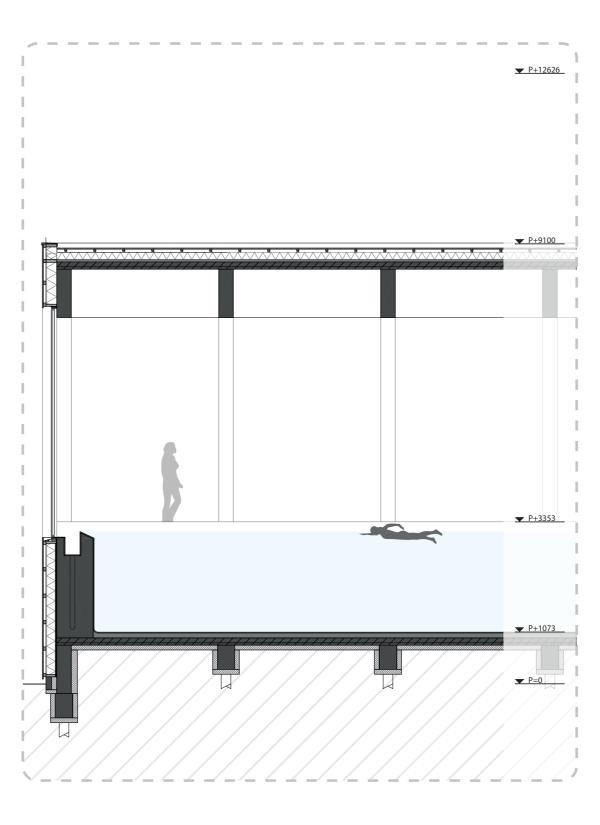


pool split level

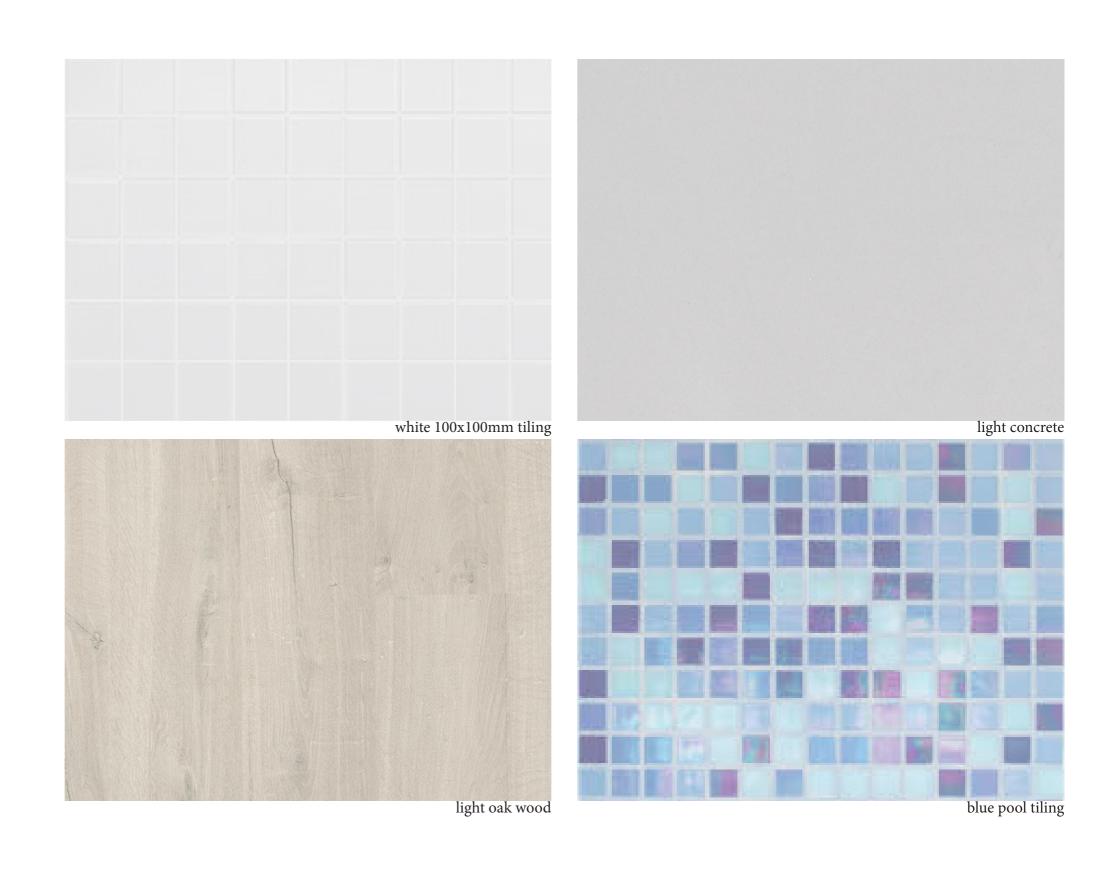




ground floor



material palette

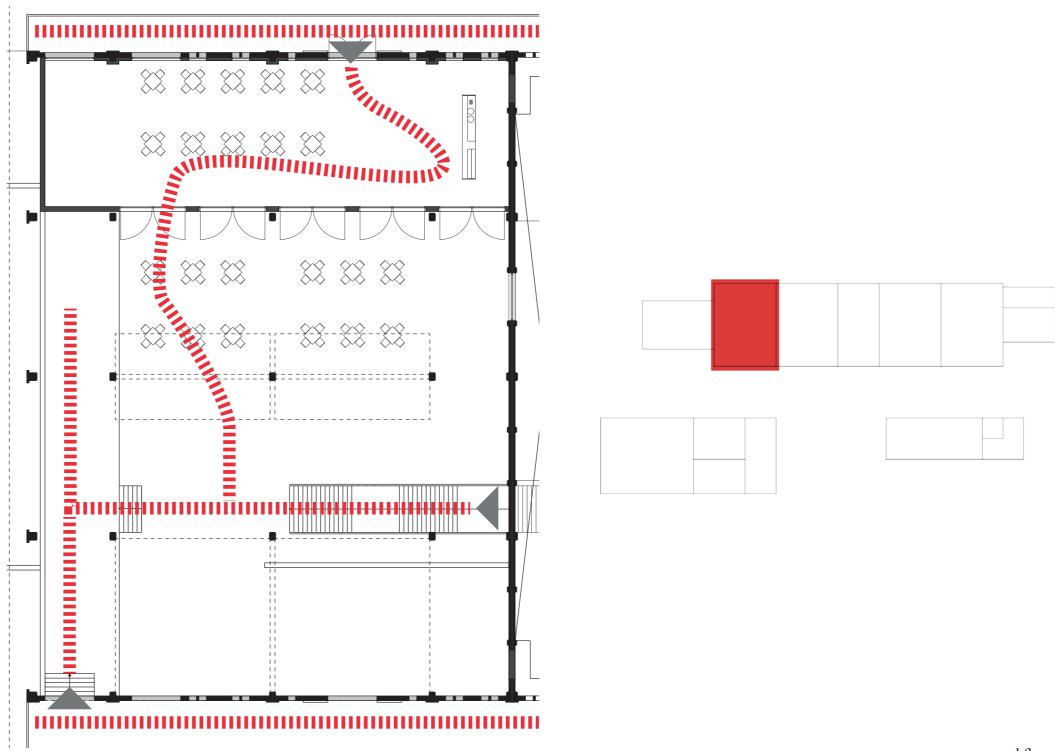




pool

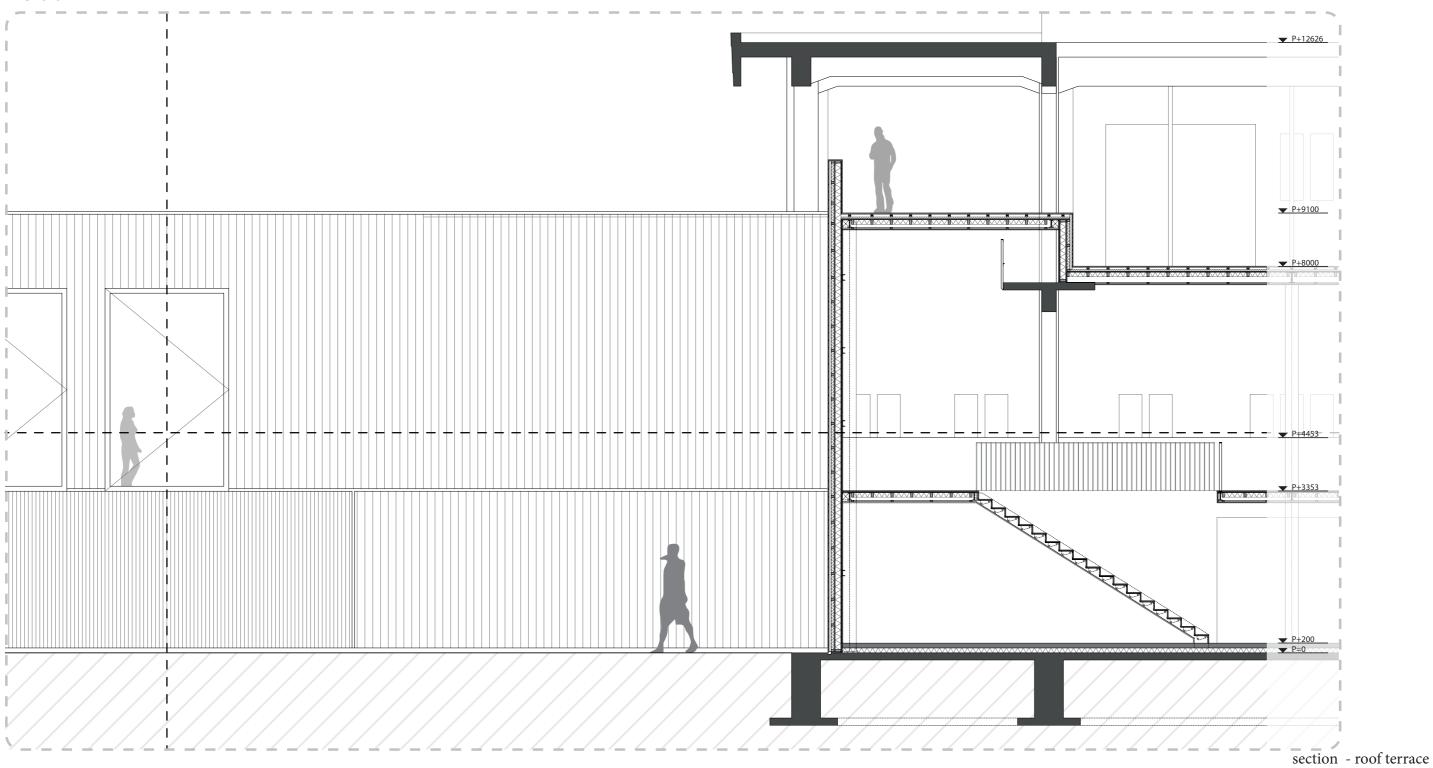


roof terrace



second floor

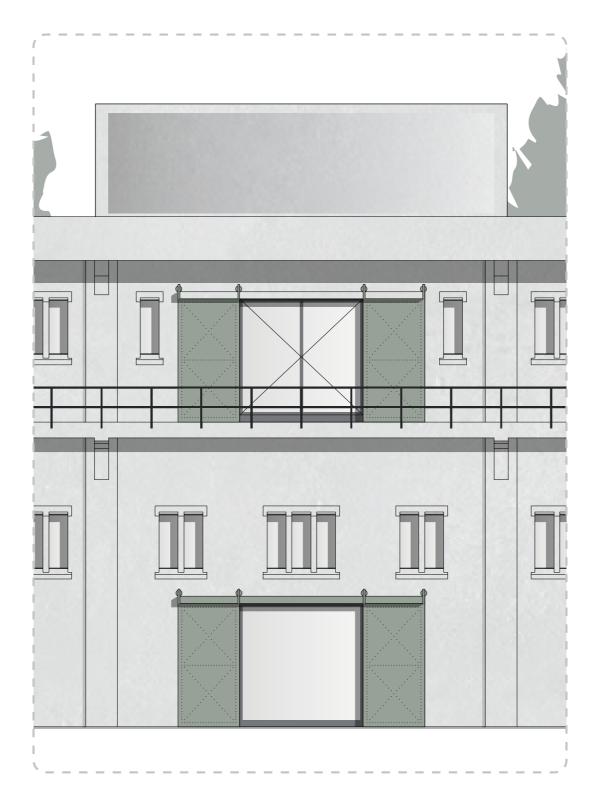
roof terrace

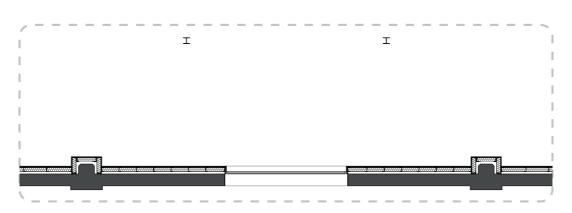


roof terrace

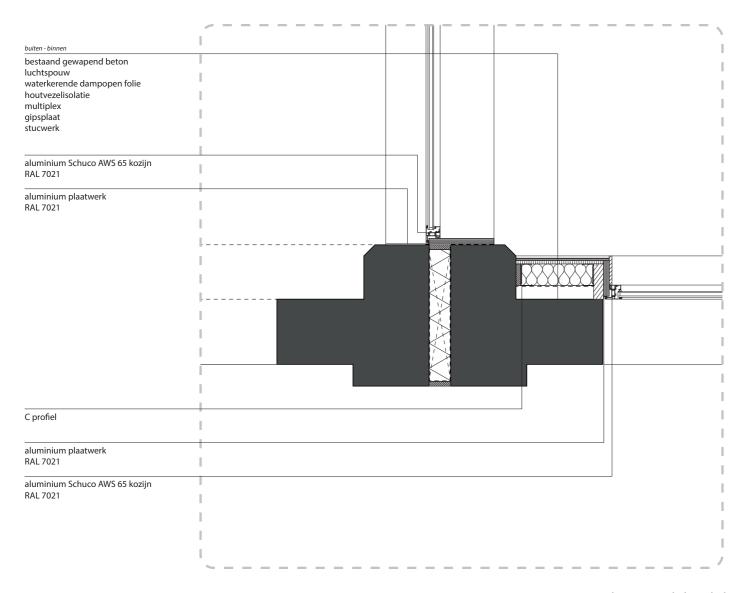


skin





skin



aluminium plaatwerk
RAL 7021

aluminium Schuco AWS 65 kozijn
RAL 7021

aluminium Schuco AWS 65 kozijn
RAL 7021

isokof koudebrugonderbreking

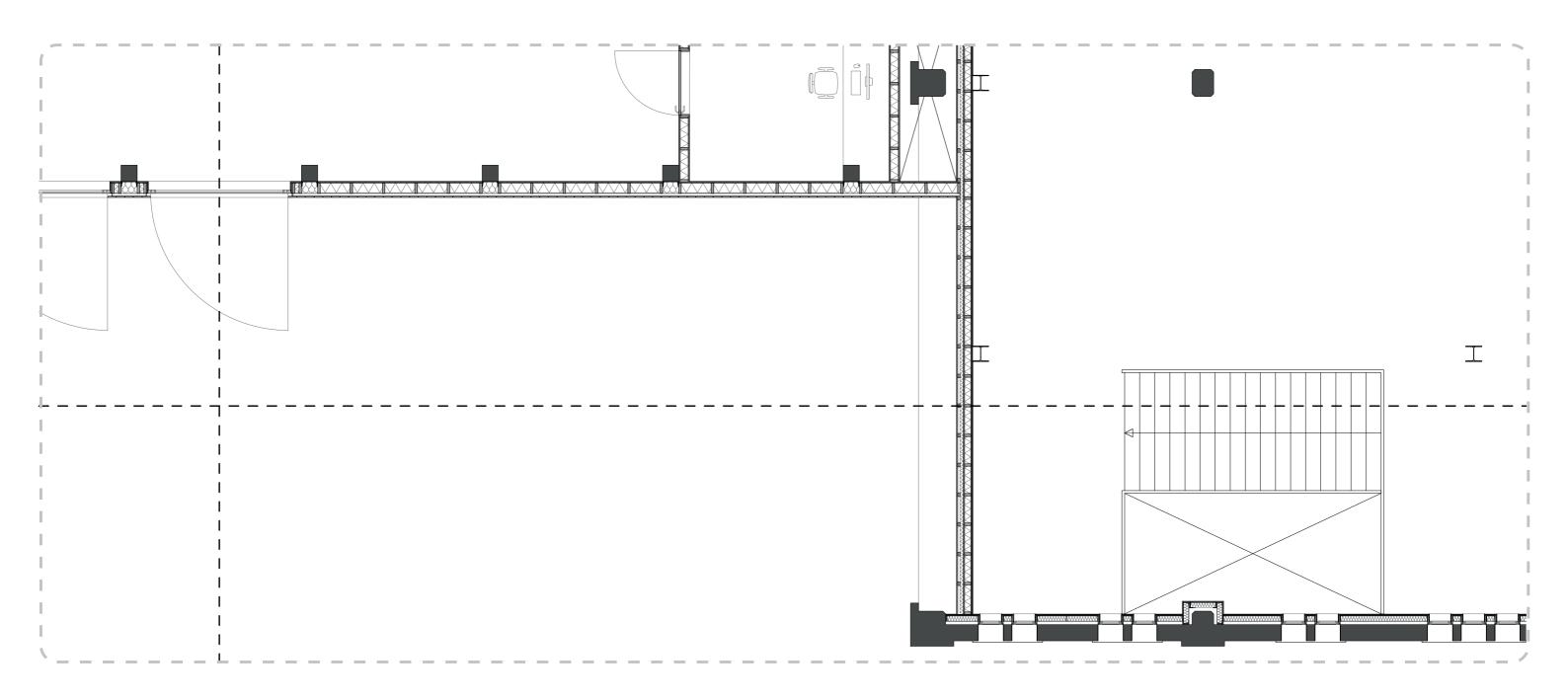
aluminium Schuco AWS 65 kozijn
RAL 7021

aluminium plaatwerk
RAL 7021

horizontal detail skin

vertical detail - skin

skin

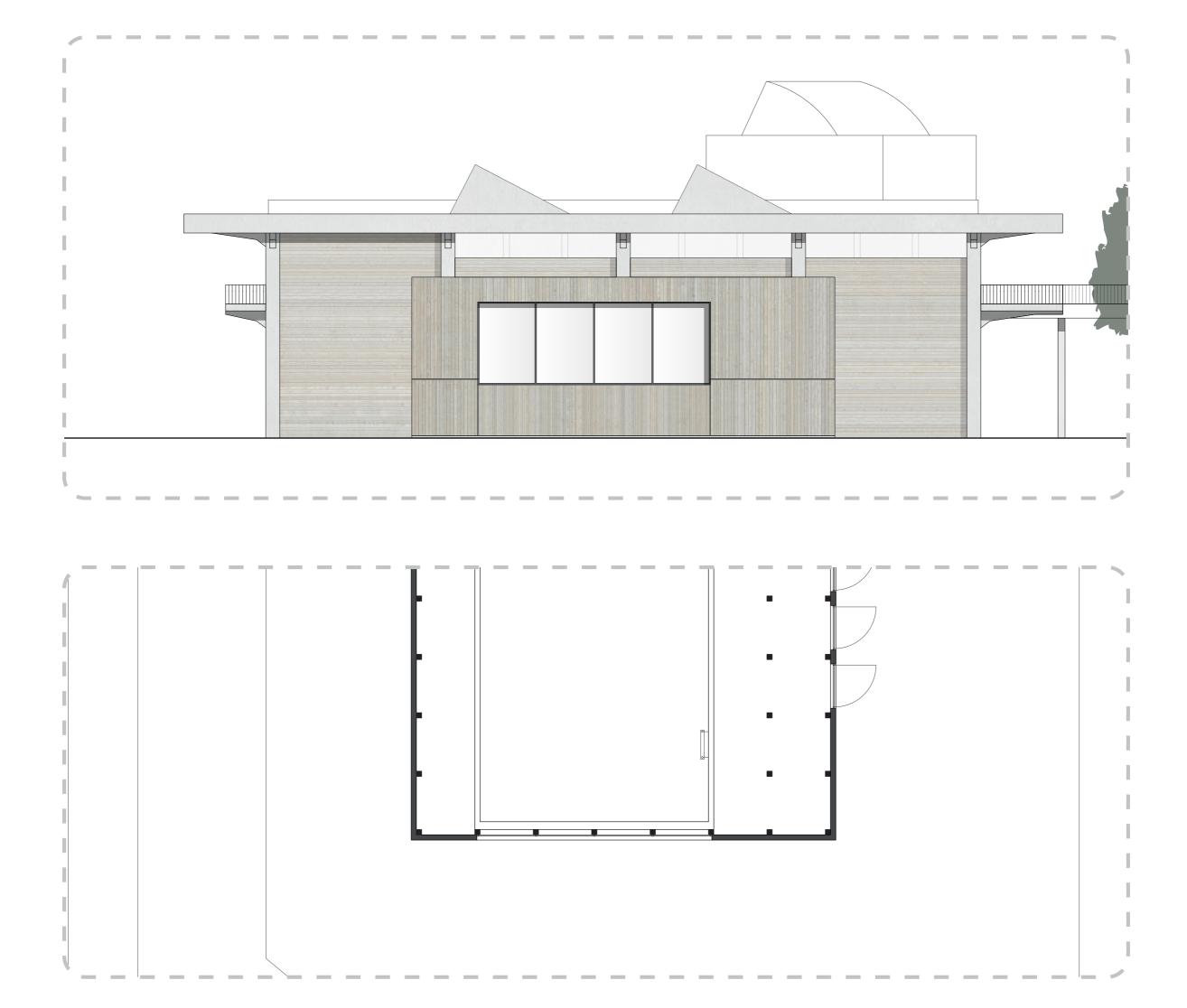


ground floor plan - transition between old and new

skin



skin



fragment - pool

Jan Huis in 't Veld

skin

