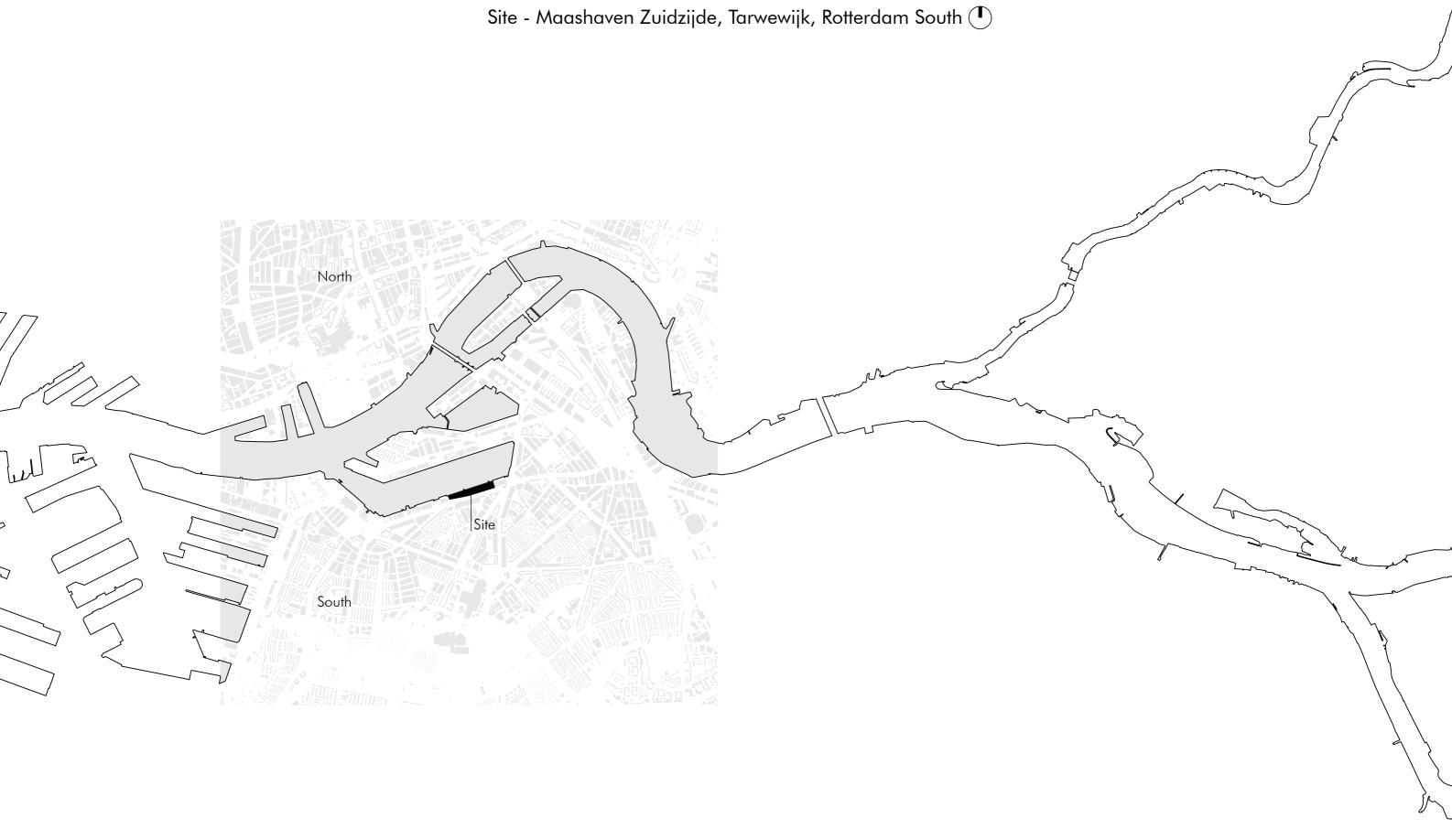
P5: Presentation The New Museum for Contemporary Technology

AR3AP100 | MSc3 | Public Building Graduation Studio The New Museum | Art + the City Re-Wired | Rotterdam Zuid

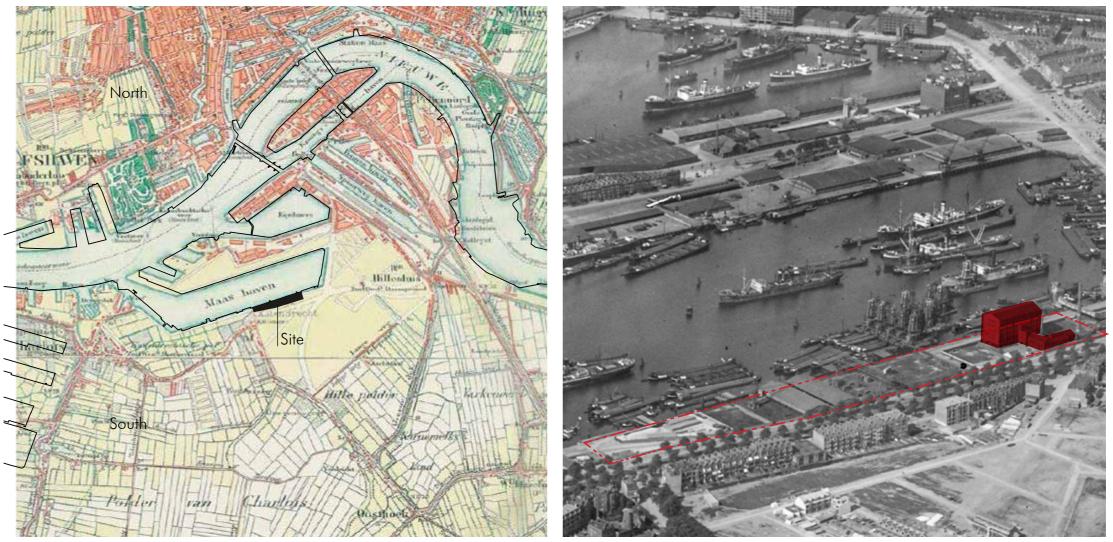
> Daul Chung [5010314]



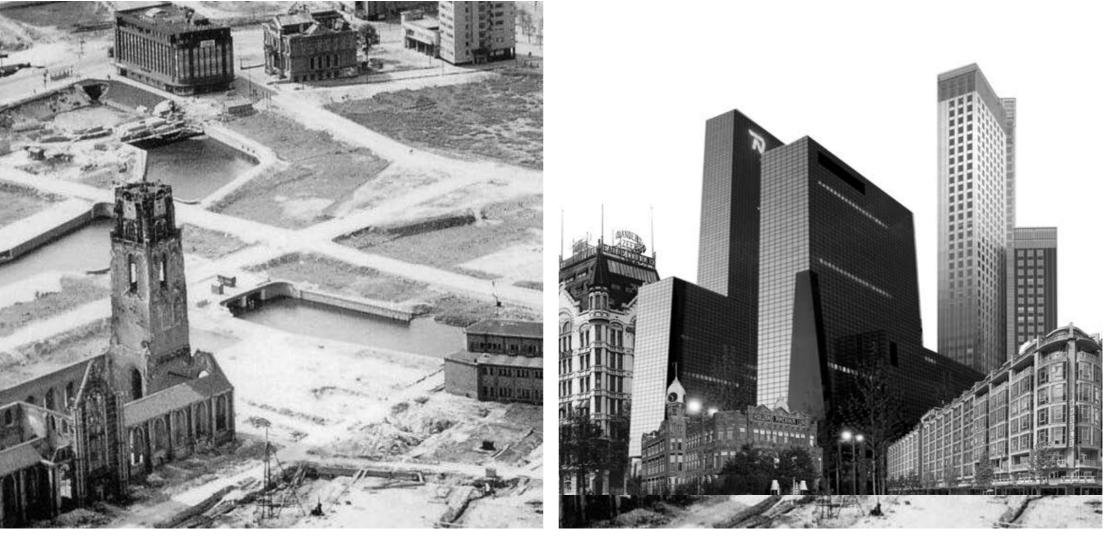


Rotterdam History Map 1905, https://www.oldmapsonline.org/en/Rotterdam

Image from Guest Lecture RIVER AS A TIDAL PARK by Marit Janse De Urbanisten Rotterdam

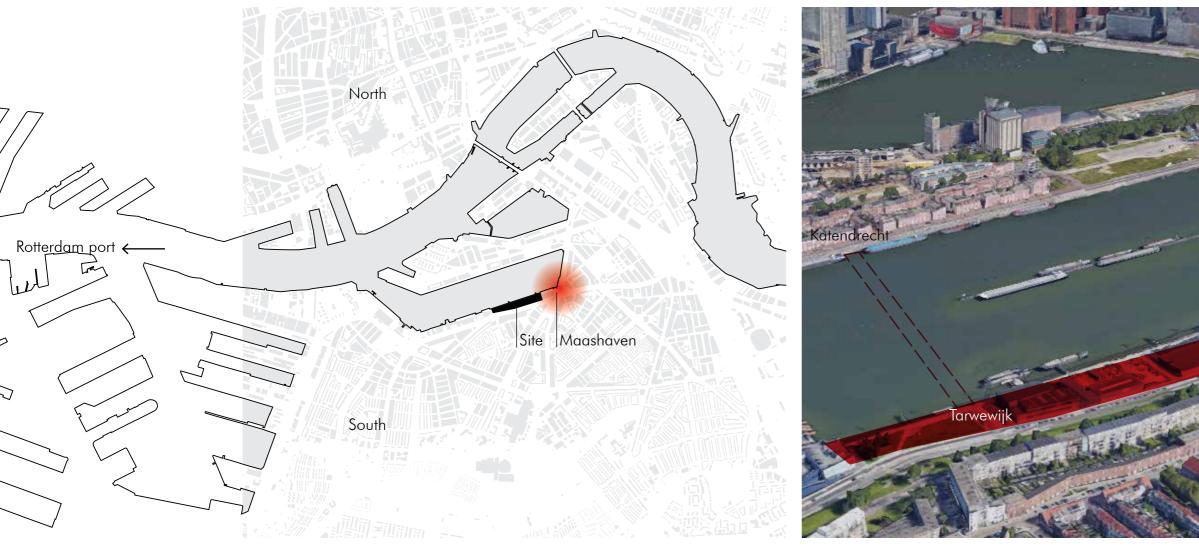


Rotterdam History Map 1905, https://www.oldmapsonline.org/en/Rotterdam



Collage of art in public areas Rotterdam from Thematic Research: Culture

Iconic buildings in Rotterdam - collage from Thematic Research: Power





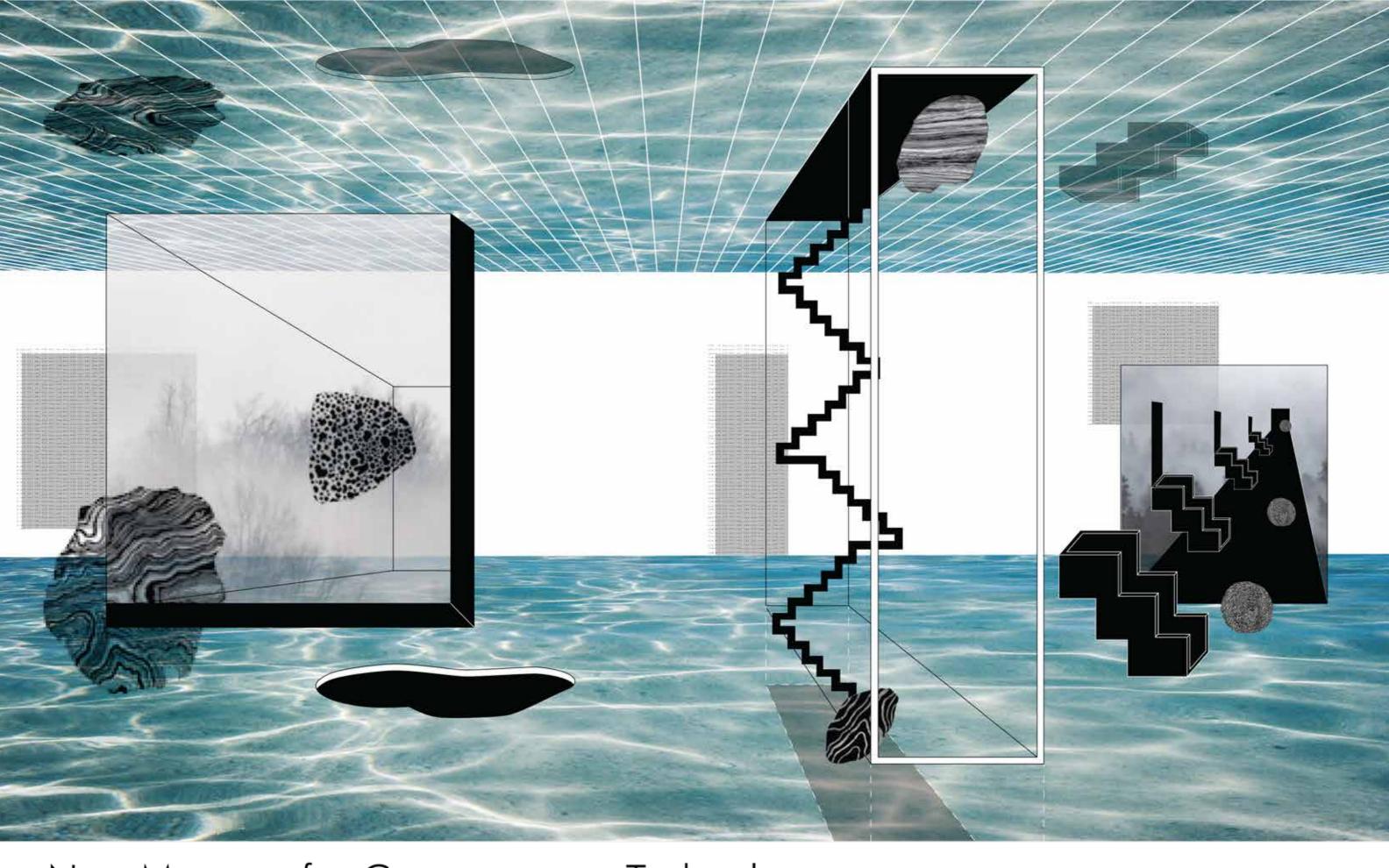
New Art Forms in Today's Technology



Jeffrey Shaw, Legible City, 1988



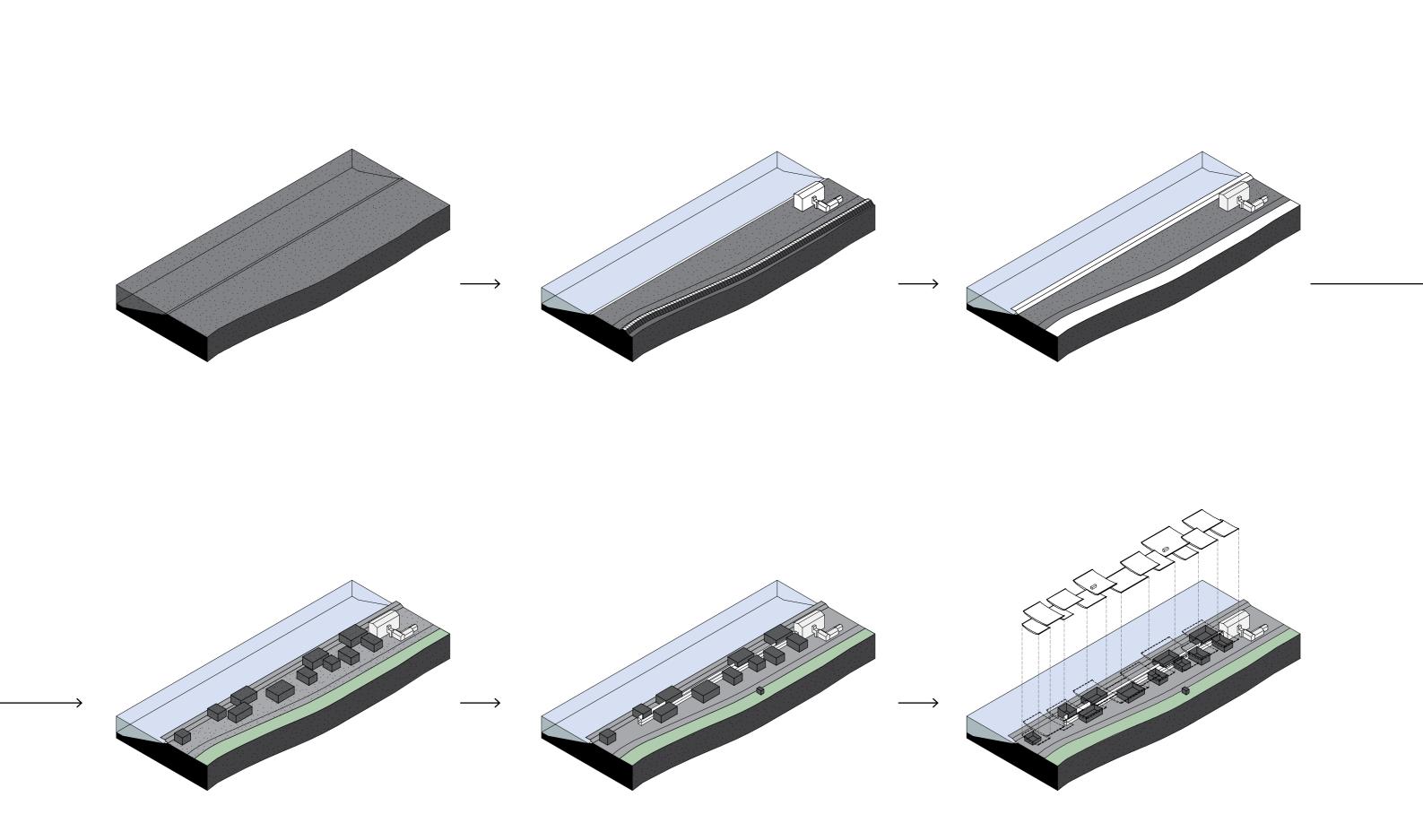




New Museum for Contemporary Technology: Remediation, Discrete Representation, Modularity, Variability, and Transcoding

The NEW Museum aims to express new art forms in today's technology.

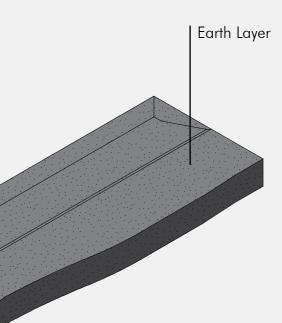
Mass Diagram



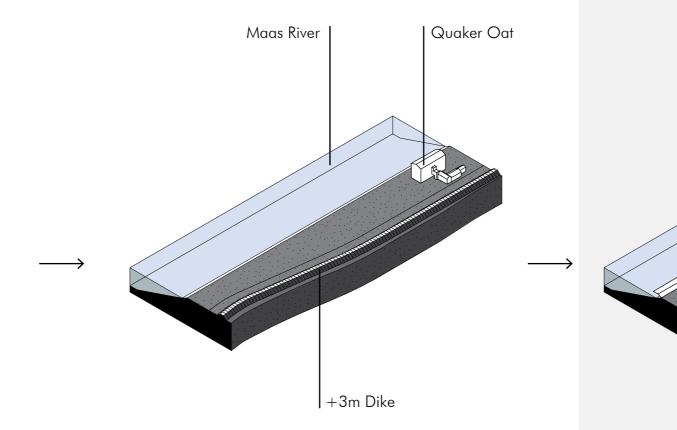
Step 01. Earth Layer



Image from Guest Lecture RIVER AS A TIDAL PARK by Marit Janse De Urbanisten Rotterdam 21.03.04



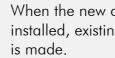
Step 02. Current Situation



Current situation shows that there are three levels: the river, the site, and the dike.



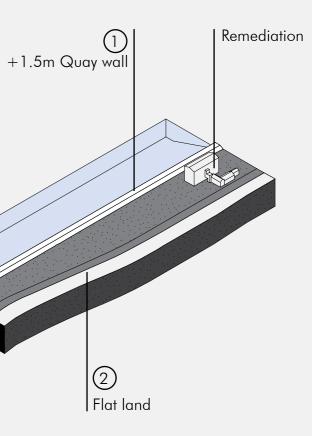
Due to climate change, sea level will rise 40cm by 2050 and 100cm by 2100. This causes high-wa-ter levels to rise in Rotterdam.



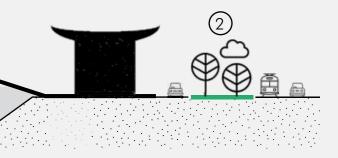
(1)

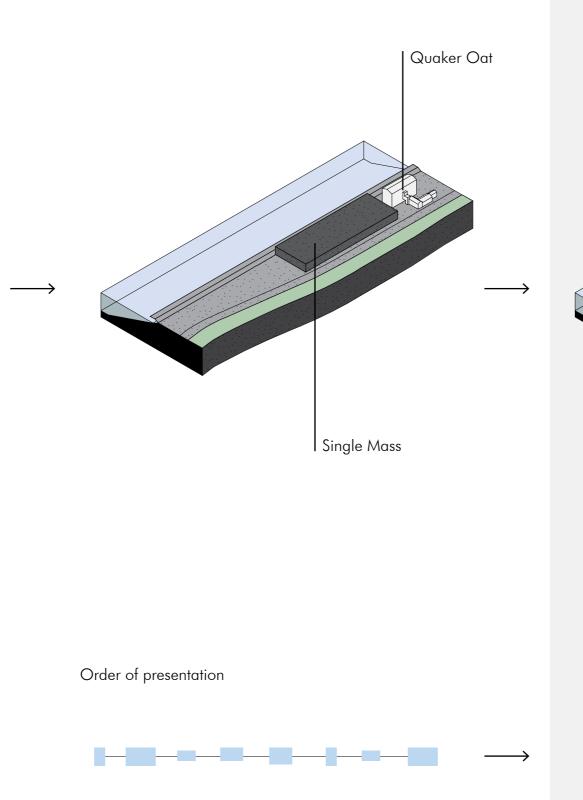


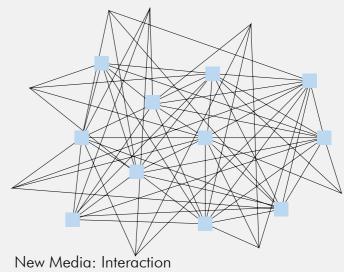
Step 03. Enhancing Quaywall



When the new dike which is 1.5m higher than current level is installed, existing old dike can be removed and new territory

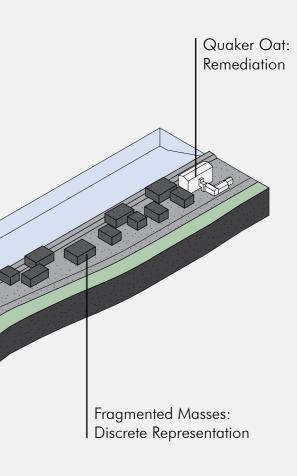


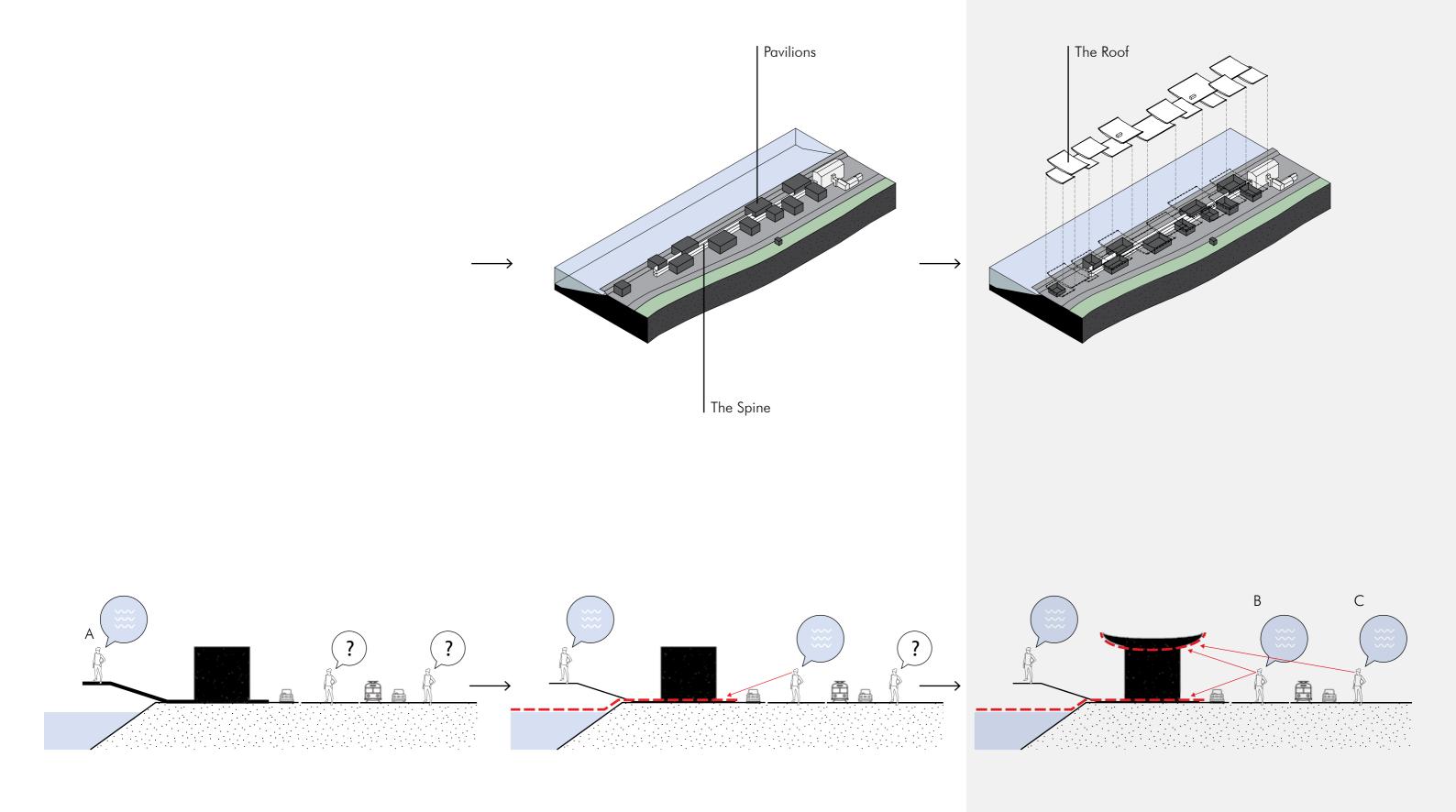




Analog media: Fixed

Step 05. New Media Art



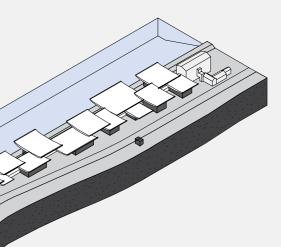


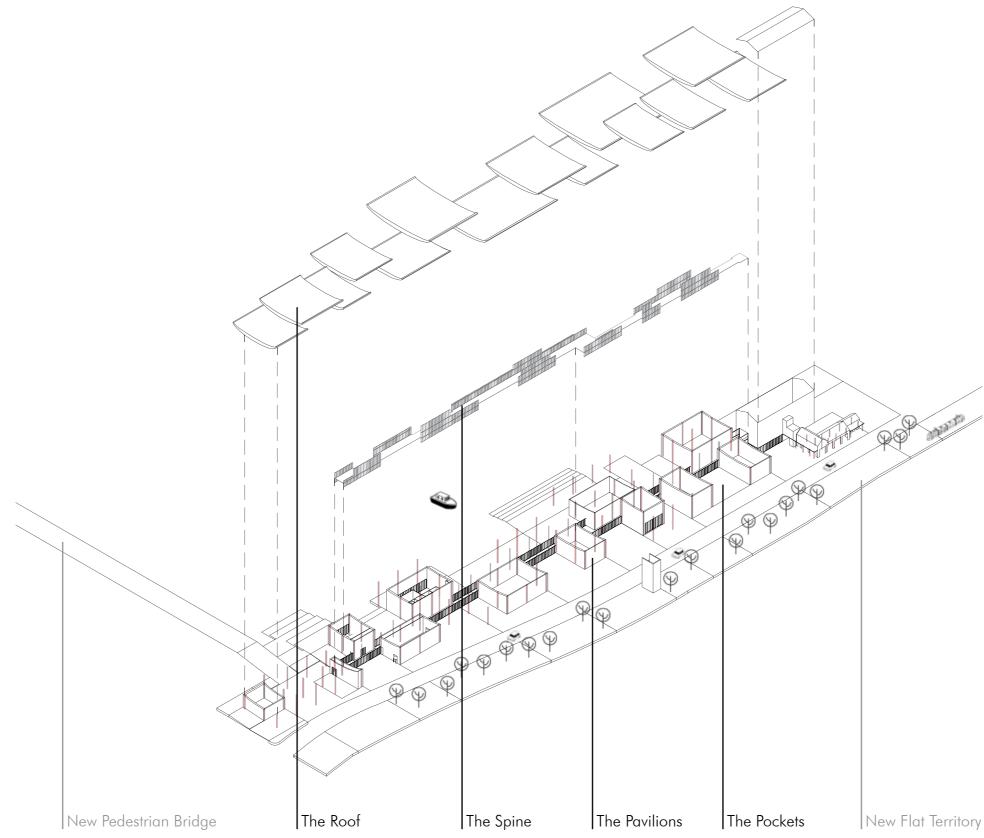
Step 07. The Roof

Subtle Waves of Maas River



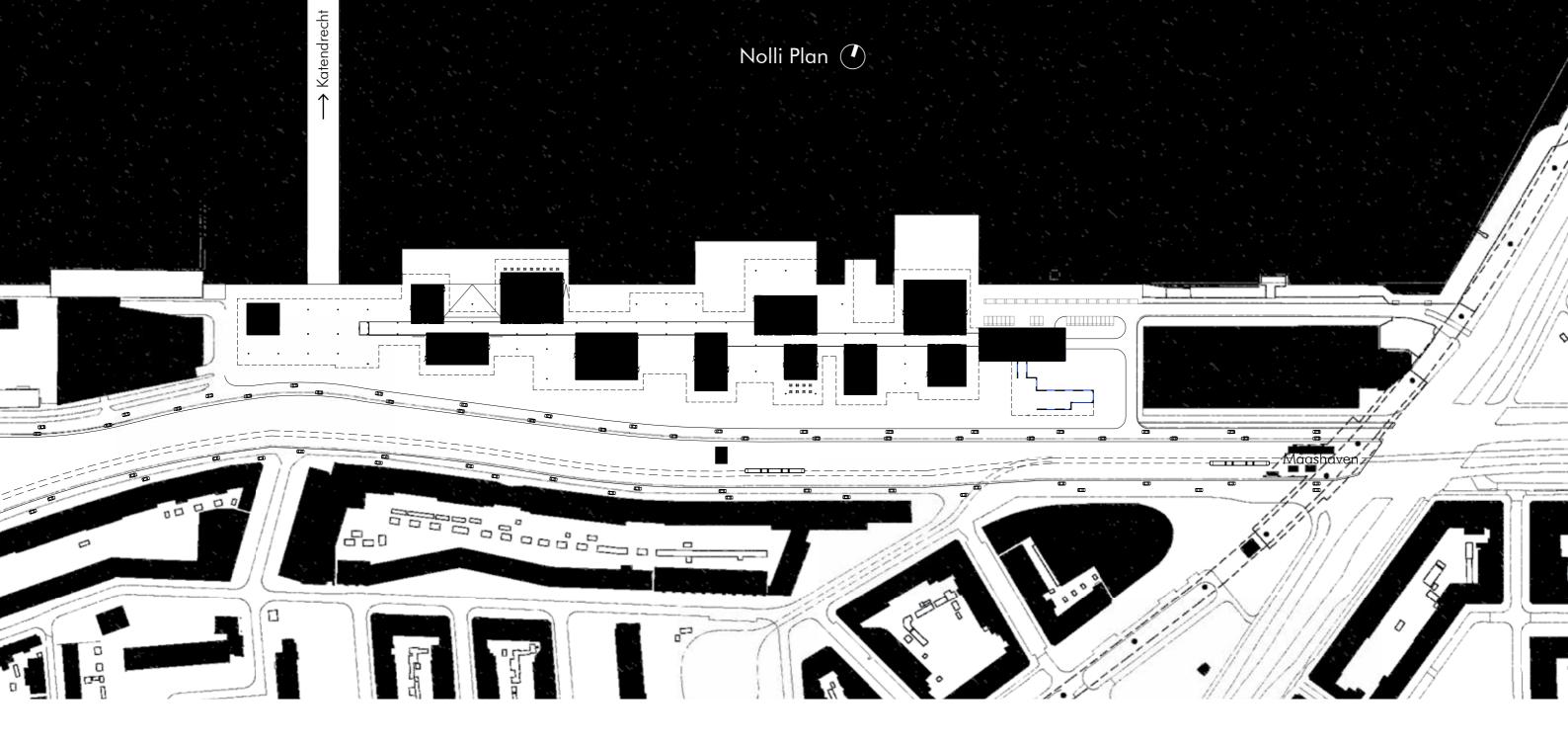
riverwave image https://www.pexels.com/search/water%20background/



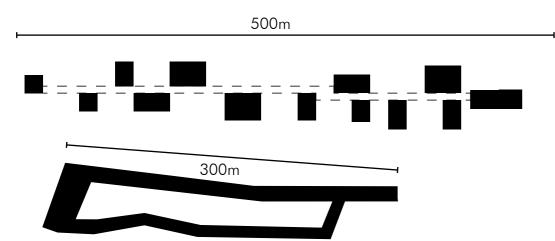


The Vision

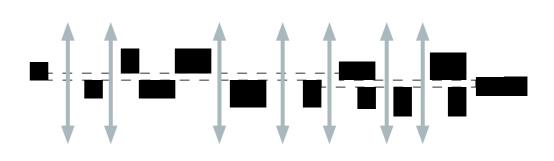




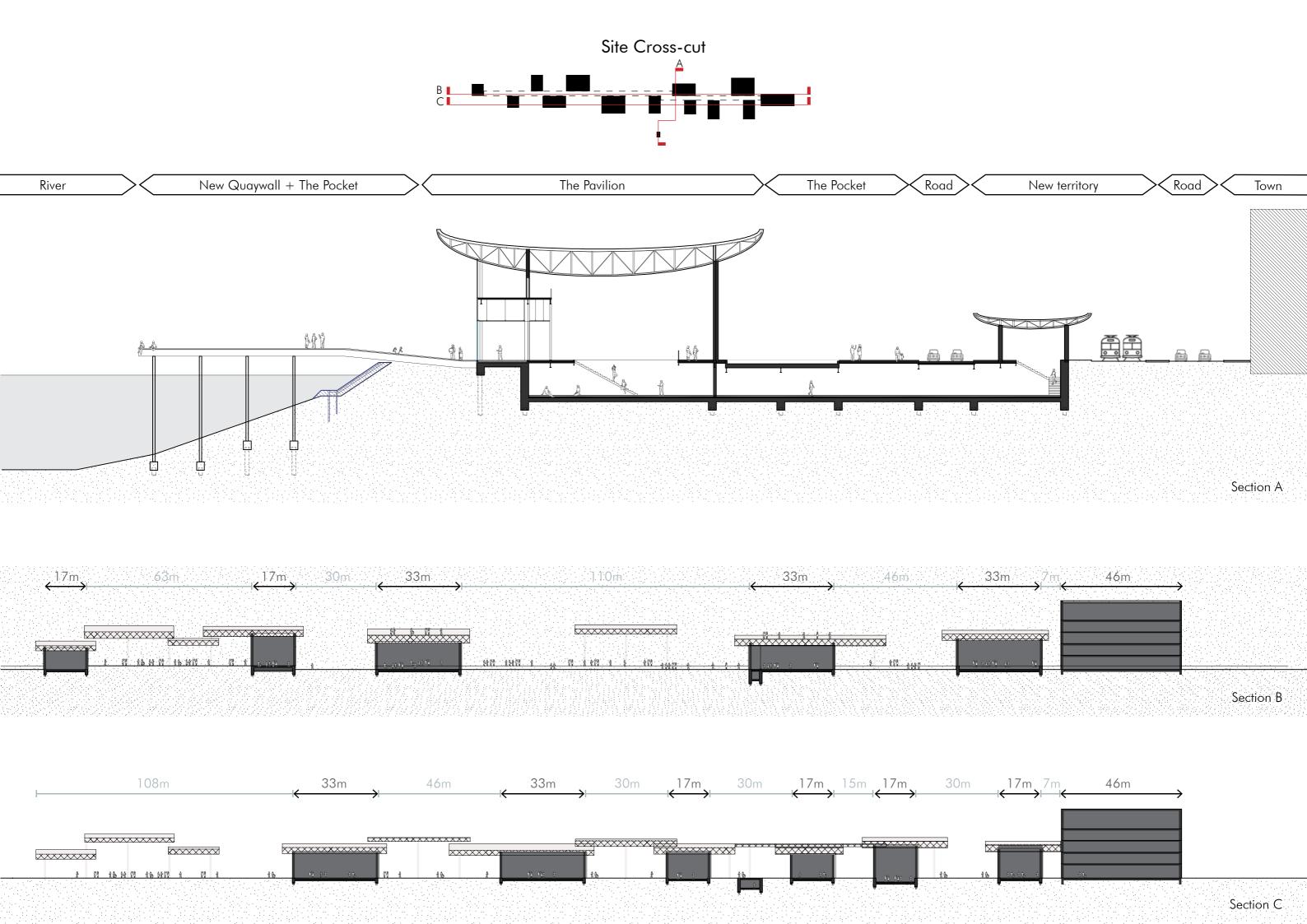
Discrete Representation

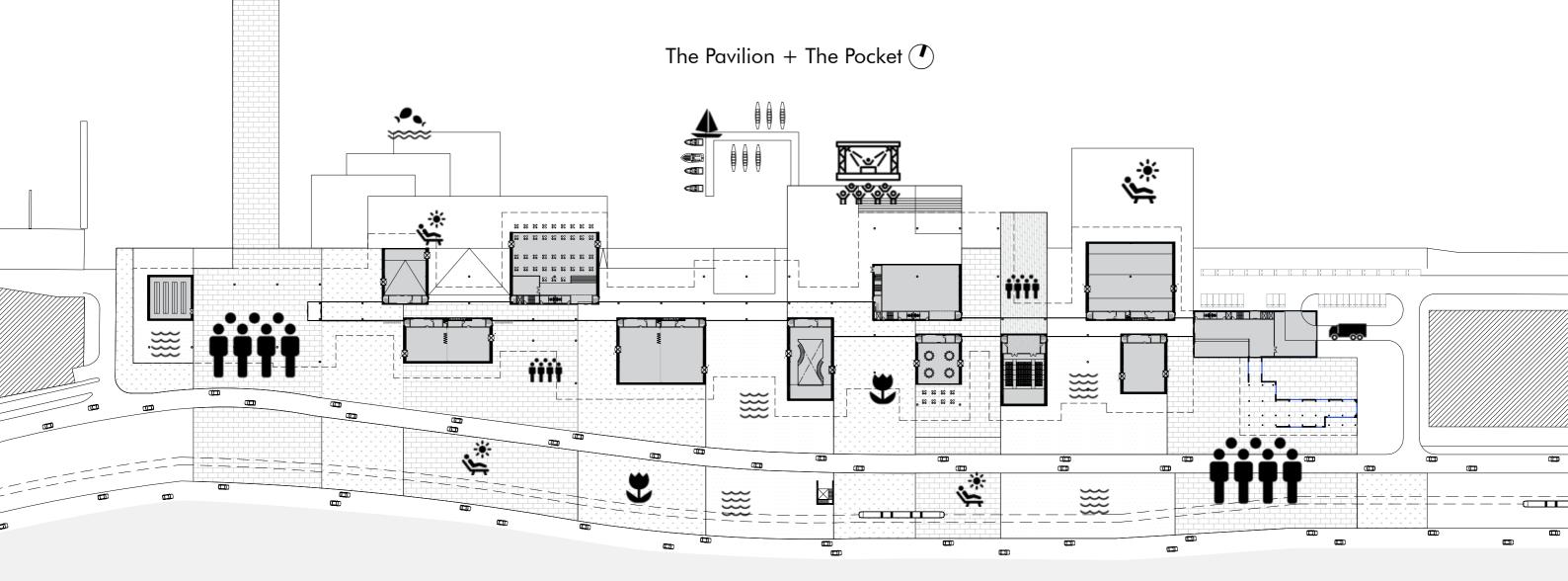


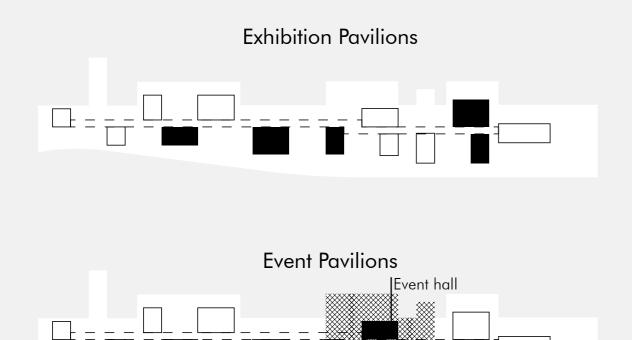
Accessibility & Permeability





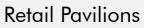


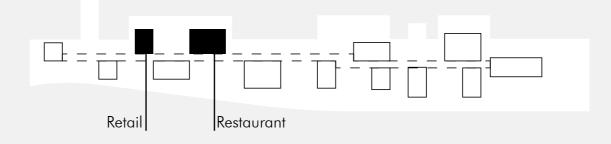


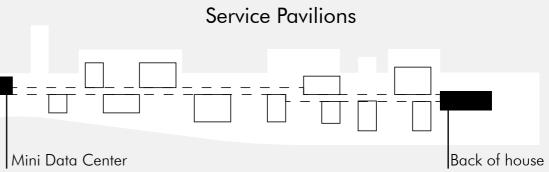


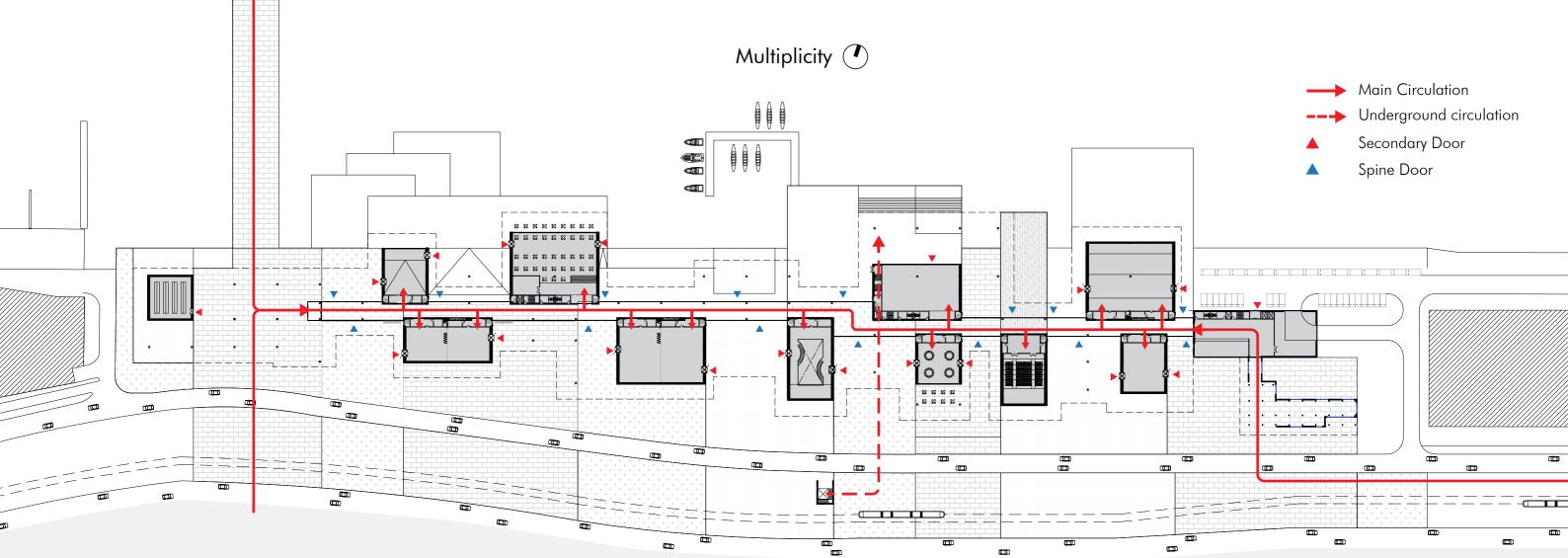
Workshop

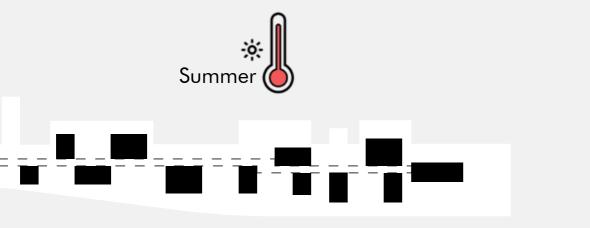
Multipurpose hall



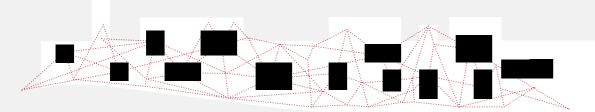




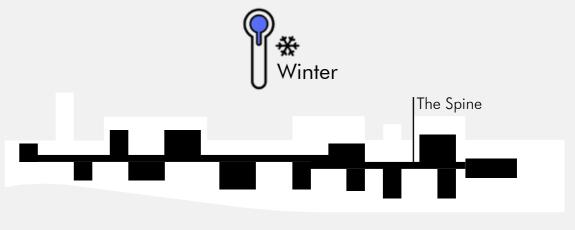




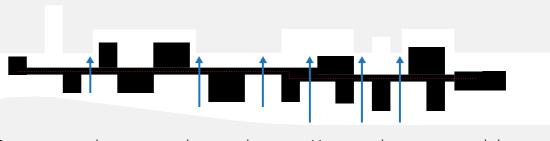
During summer, the spine disappears to provide more outdoor spaces.



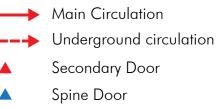
During summer, it is meant to be interactive as much as possible.



During winter, the spine appears to provide comfortable temperature.



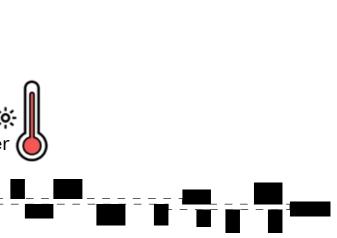
During winter, the main circulation is the spine. However, there are several doors to reach the waterfront.



The Spine

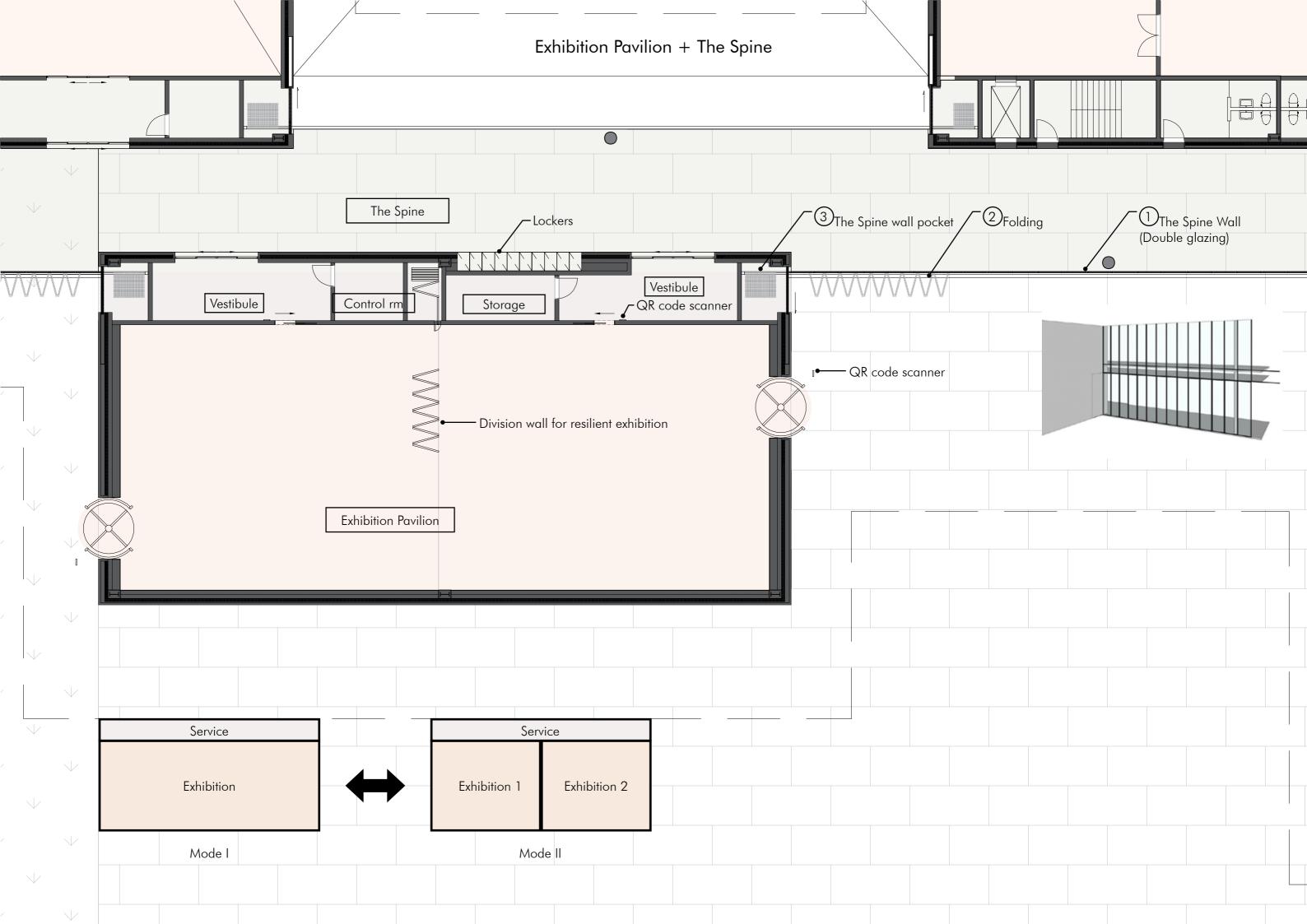


ېنې Summer (



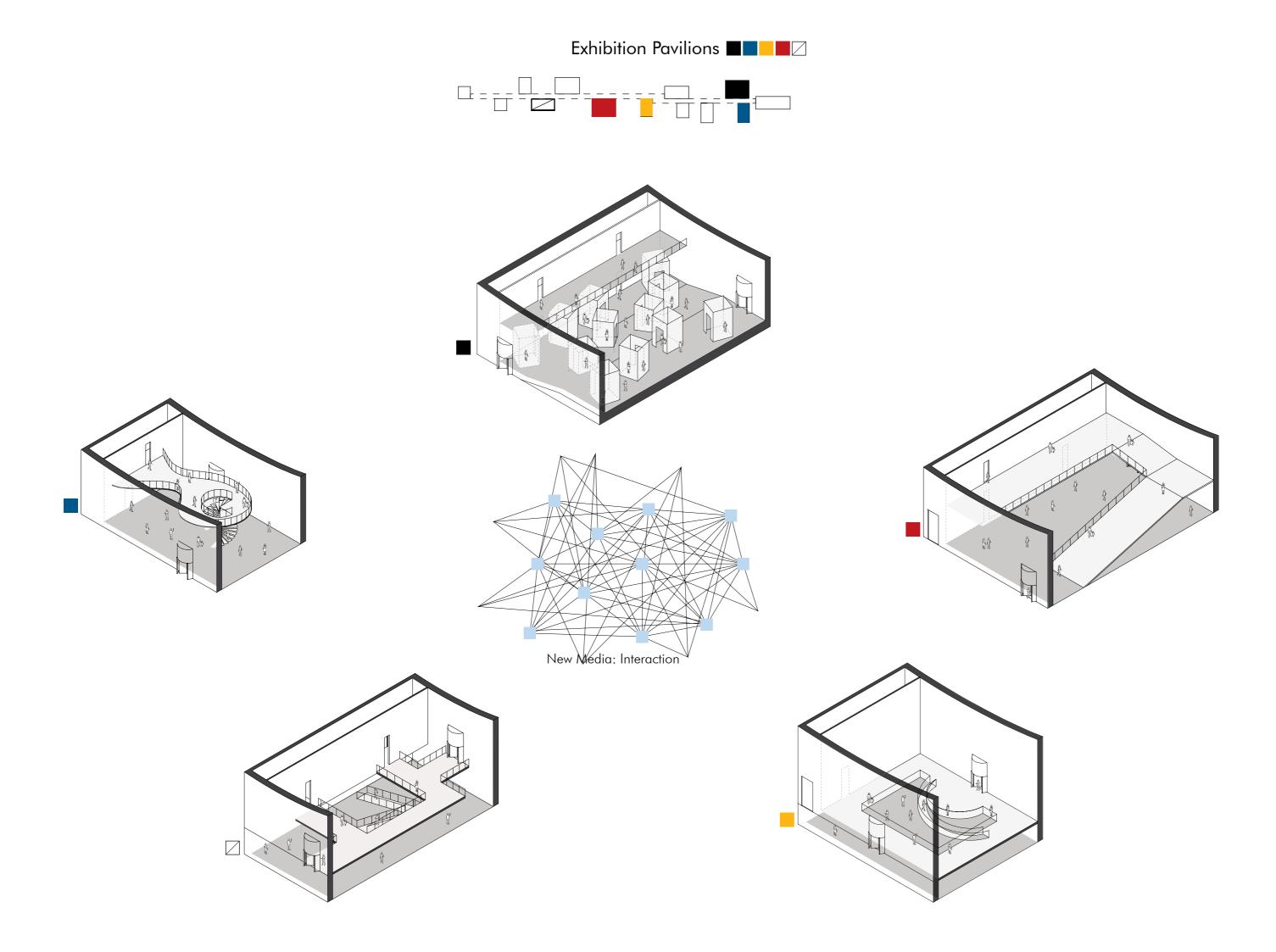




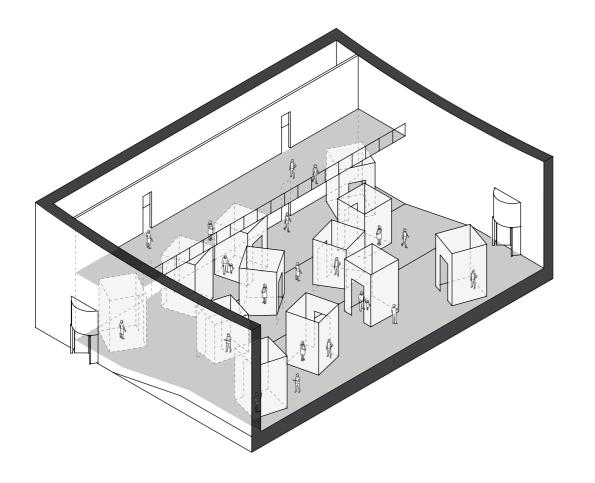


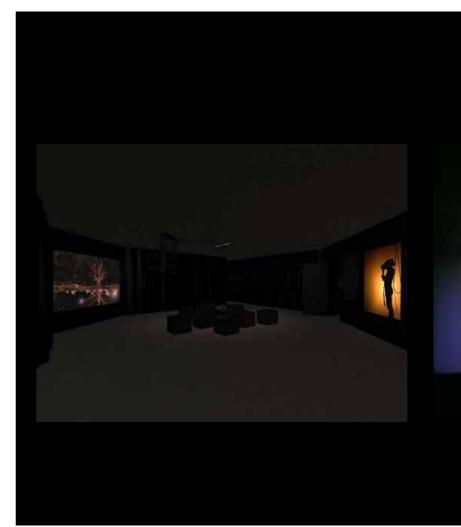
Atmosphere - Exhibition Pavilion









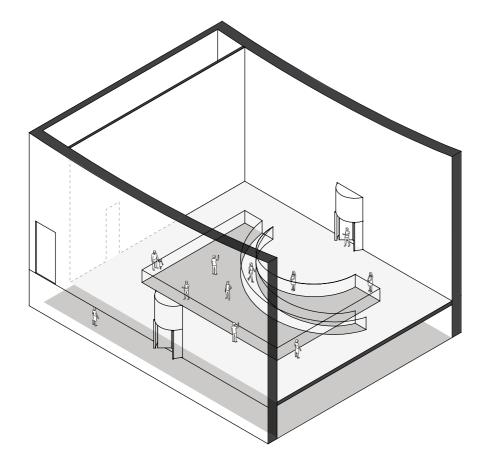


Davies, Char. "Osmose." 1995. Char Davies Immersant. http://www.immersence.com

Shaw, Jaffrey. "The Legible City." 1989. Jeffery Shaw Compendium. https://www.jeffreyshawcompendium.com/portfolio/legiblecity/

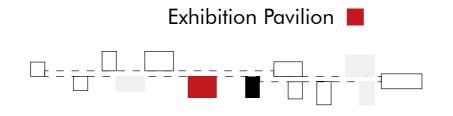


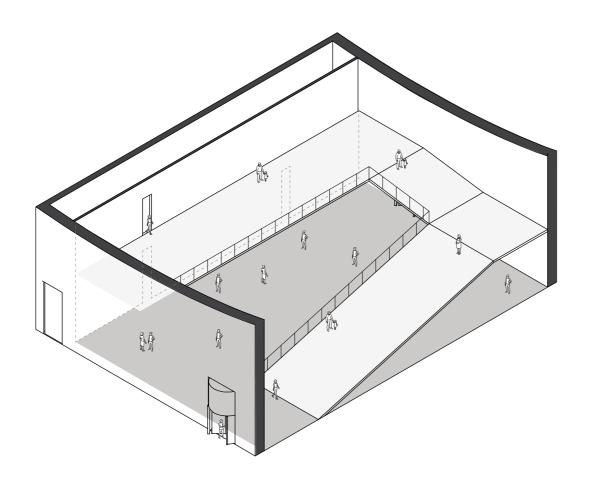






a'strict. "Starry Beach." 2020. Seoul, KR http://www.dstrict.com/arttechfactory/kr/65-Public_Media_Art_1.html.



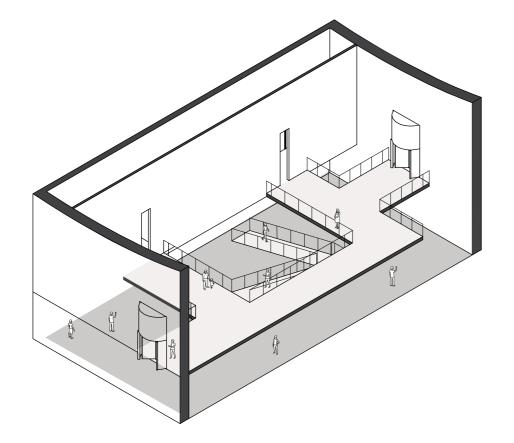


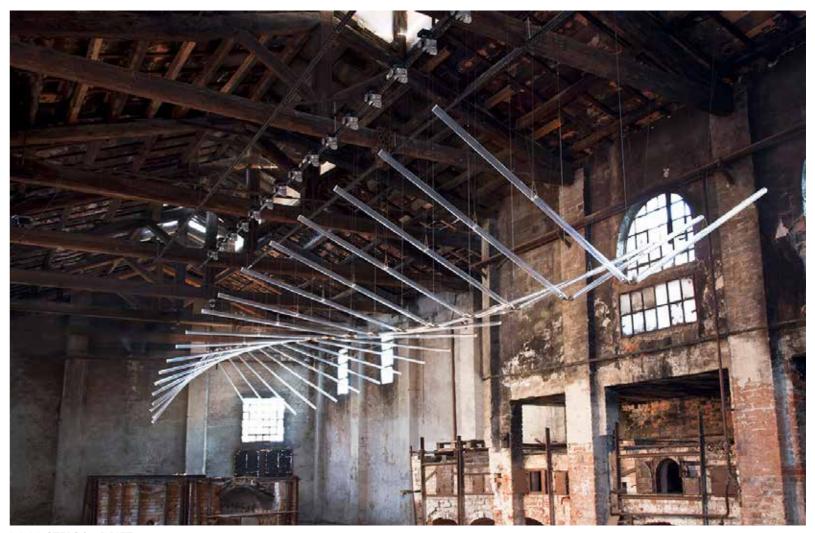


Ceramic-porcelain-3d-printer by Olivier van Herpt Logo https://oliviervanherpt.com/blue-and-white-porcelain/

Exhibition Pavilion \square

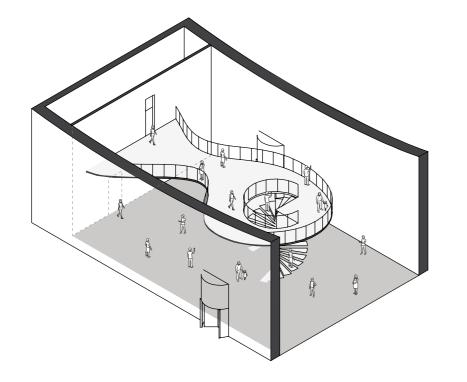


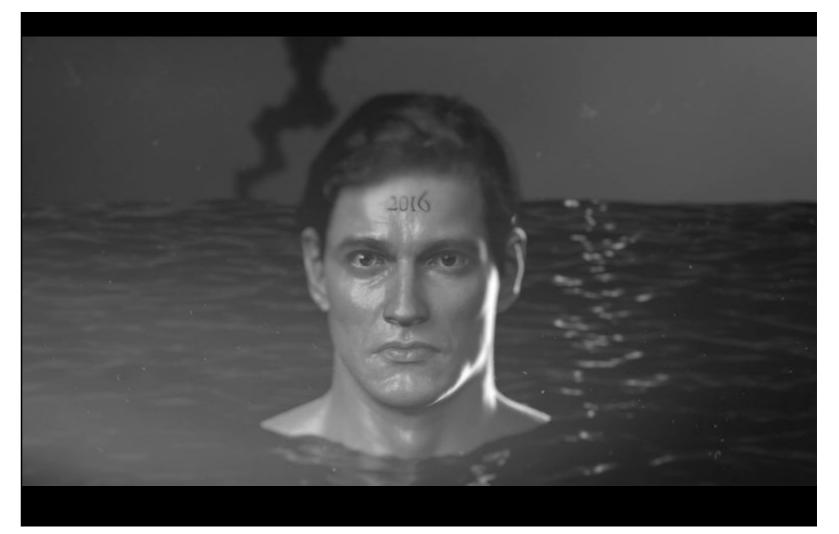




IN 20 STEPS by DRIFT https://www.studiodrift.com/work#/work/in-20-steps/







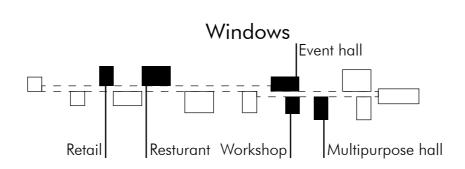
RECENT OUIJA by ED ATKINS https://www.stedelijk.nl/en/exhibitions/70432

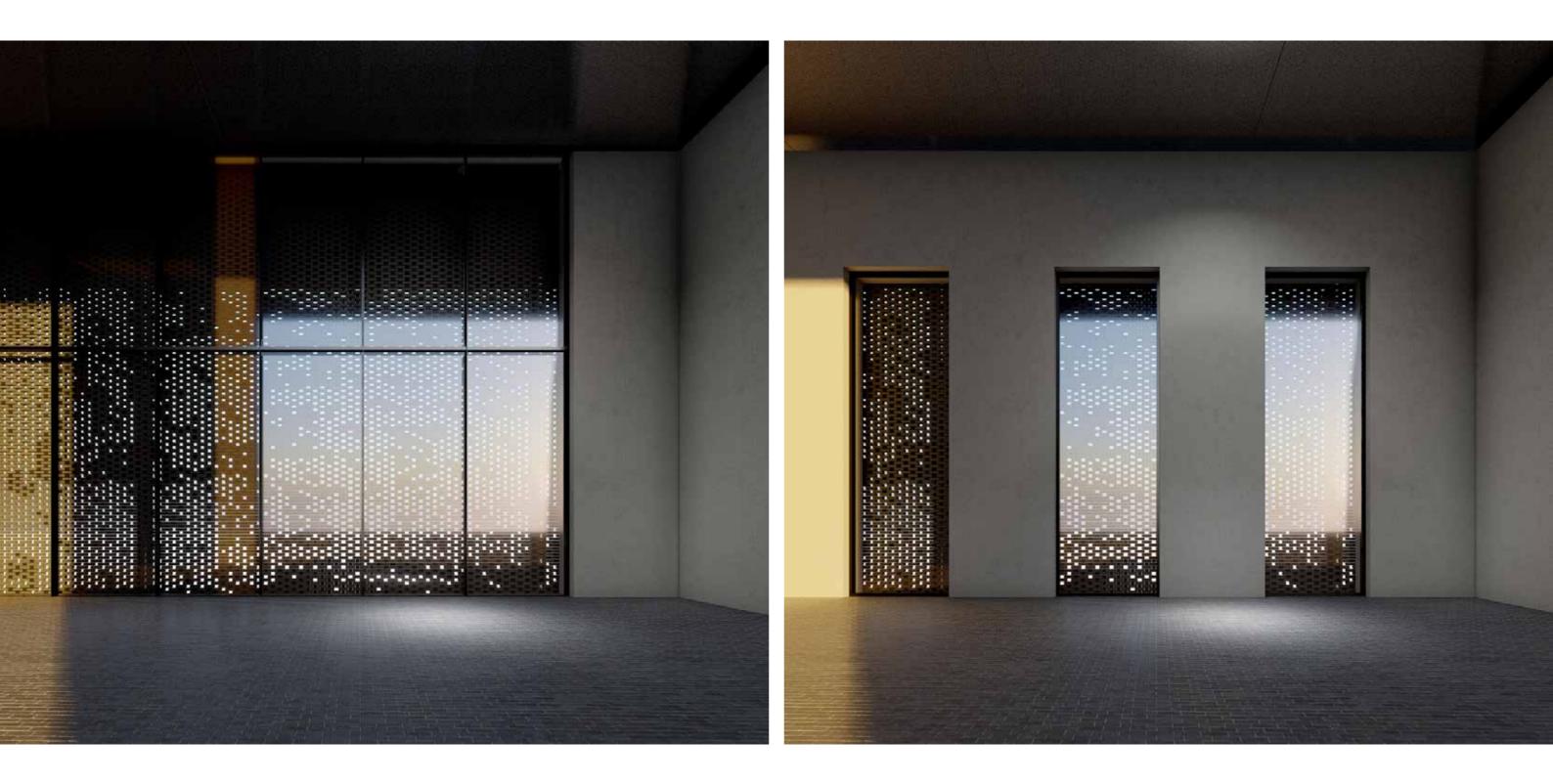
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City Library Heidenheim / Max Dudler https://www.archdaily.com/891245/city-library-heidenheim-max-dudler?ad_medium=gallery the Maggie's Centre at Monklands General Hospital https://www.dezeen.com/2014/10/20/reiach-and-hall-architects-maggies-centre-lanarkshire-walled-gardens/

Earthy Material for the Pavilion



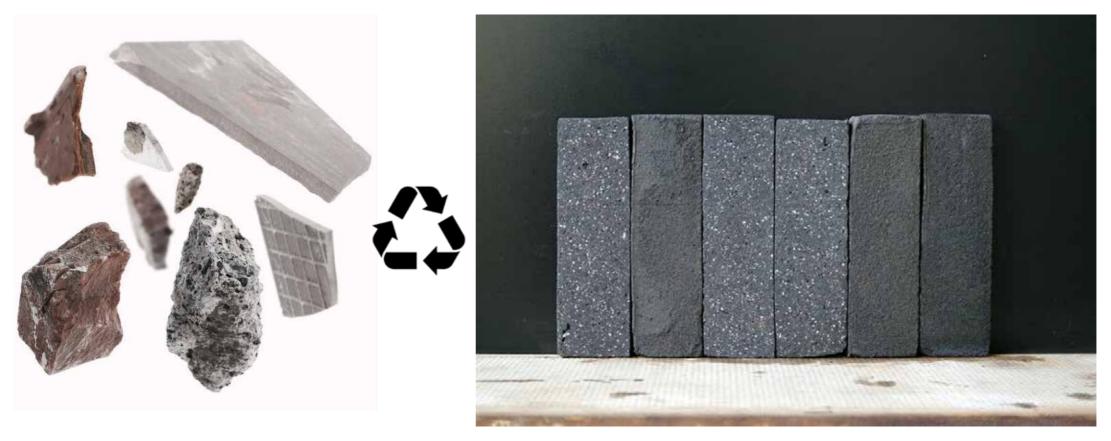
Image from Guest Lecture RIVER AS A TIDAL PARK by Marit Janse De Urbanisten Rotterdam 21.03.04





wastebasedbrick

WasteBasedBrick_Sustainable material



waste from construction image https://www.stonecycling.com/wastebasedbricks wastebasedbrick image https://www.stonecycling.com/wastebasedbricks Dilatation joint

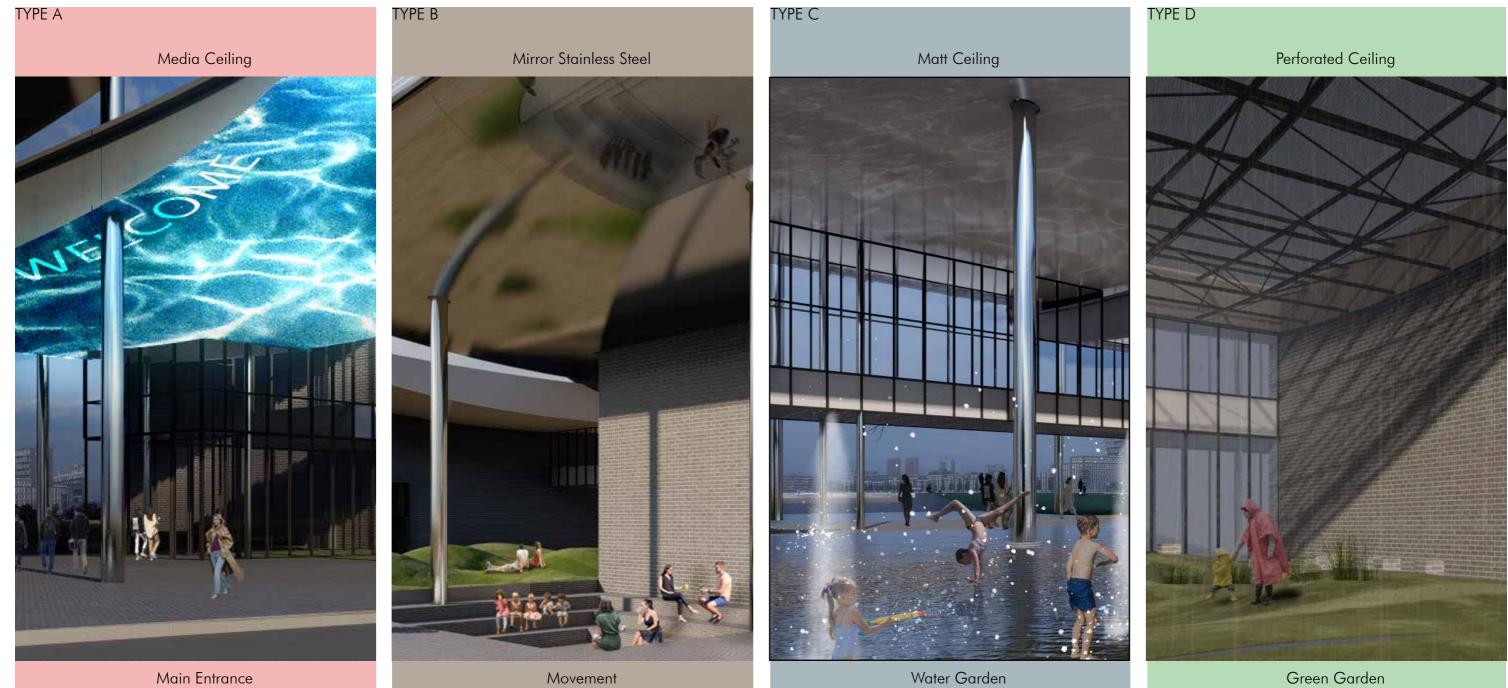


Expansion joints can look like brick mortar failure or vertical cracks in the brick.

in ARoS Aarhus Art Museum in Denmark https://www.visitaarhus.com/aarhus/plan-your-trip/aros-aarhus-art-museum-gdk1077501

https://anchorfoundationrepair.net/blog/foundation-repair-false-signs/

Activities and Materials

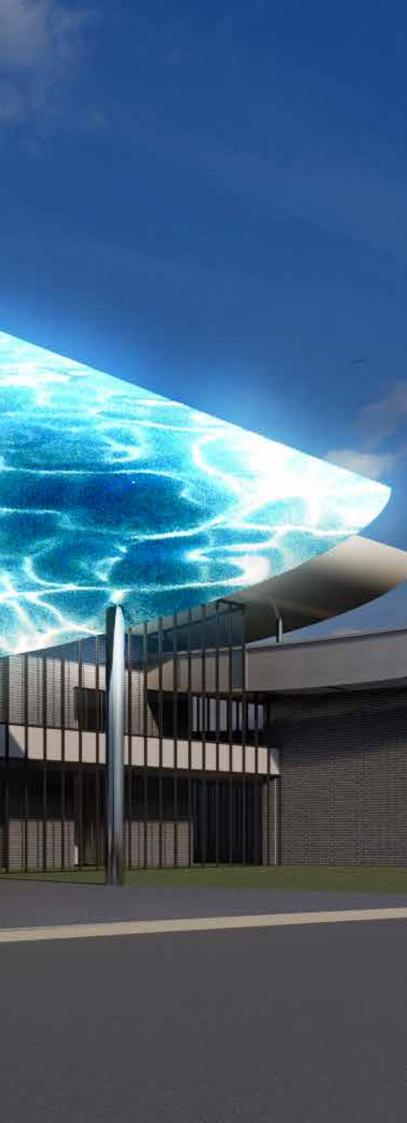




*********** Sandwich panel on roof underside: 1.5mm stainless steel sheet 40mm XPS rigid foam 1.5mm stainless-steel sheet, super-mirror polish, butt joint, gap <1mm mesh RGB |interior floor finish: exterior floor finish: 100mm wasterbased brick paving wastebased brick paving waterproof sheet in 40mm sand bed thermal insulation vapor retarder [[[[]X][[]X][[]X[[]]] _ 4 line type trench

Type A: Media Facade Ceiling & Pavement

NE





https://esidesign.com/work/221-main-street-san-francisco/

Type B: Mirror Stainless Steel & Pavemen

Sandwich panel on roof underside: 1.5mm stainless steel sheet 40mm XPS rigid foam 1.5mm stainless-steel sheet, super-mirror polish, butt joint, gap <1mm

interior floor finish: wastebased brick paving waterproof sheet thermal insulation vapor retarder

exterior floor finish: 100mm wasterbased brick paving in 40mm sand bed

line type trench

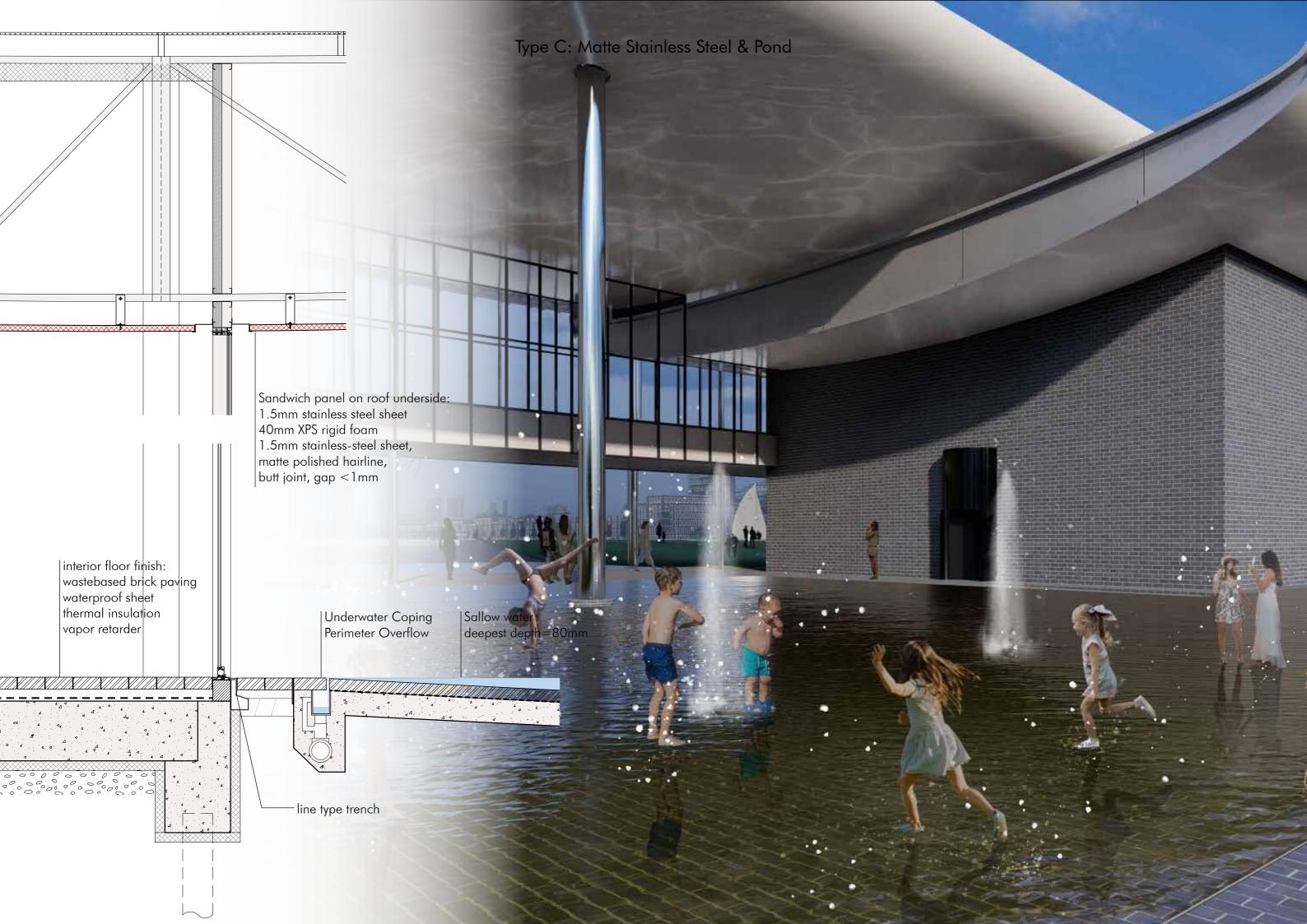
X///X///X///X////

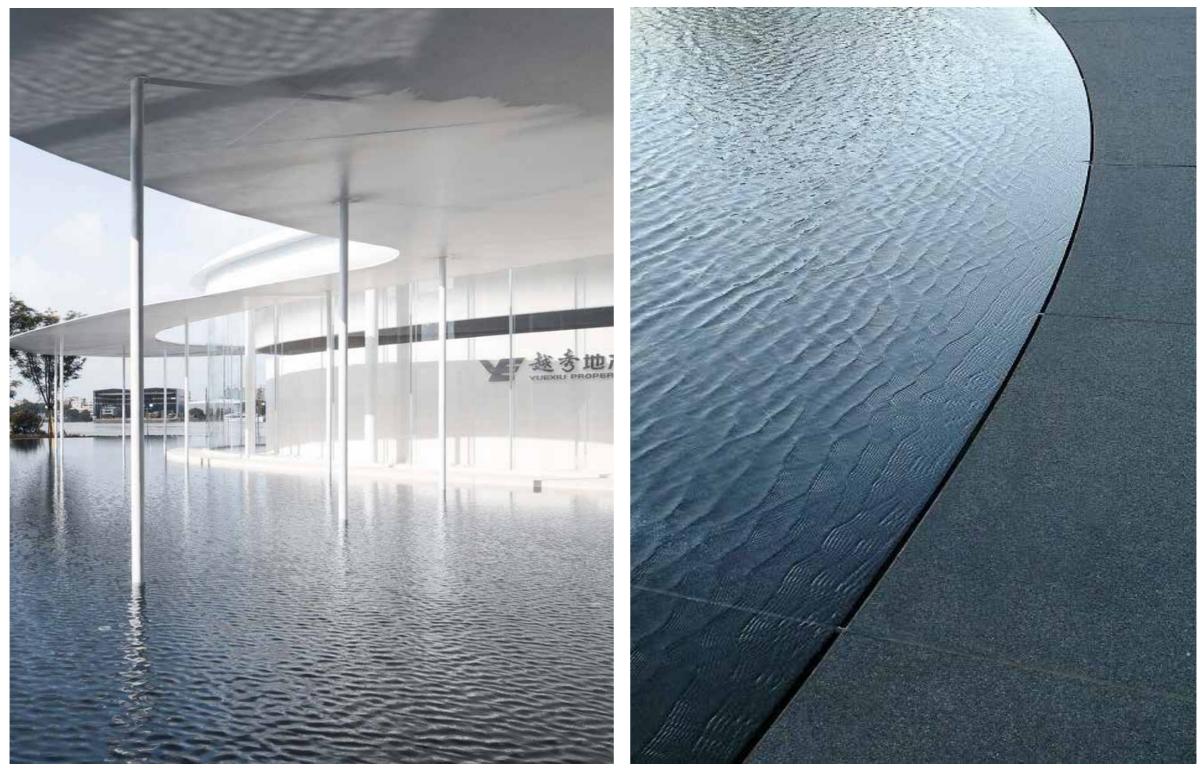




The Vieux Port Pavilion in Marseille, by Foster + Partners https://www.archdaily.com/340004/vieux-port-pavilion-foster-partners







Public Gallery Design Of Yuexiu Tianyue Bay / XAA https://www.archdaily.com/923110/public-gallery-design-of-yuexiu-tianyue-bay-xaa?ad_source=-search&ad_medium=search_result_all

https://i.pinimg.com/1200x/b4/62/c7/b462c73a820cbfde22b08e4410f8c277.jpg





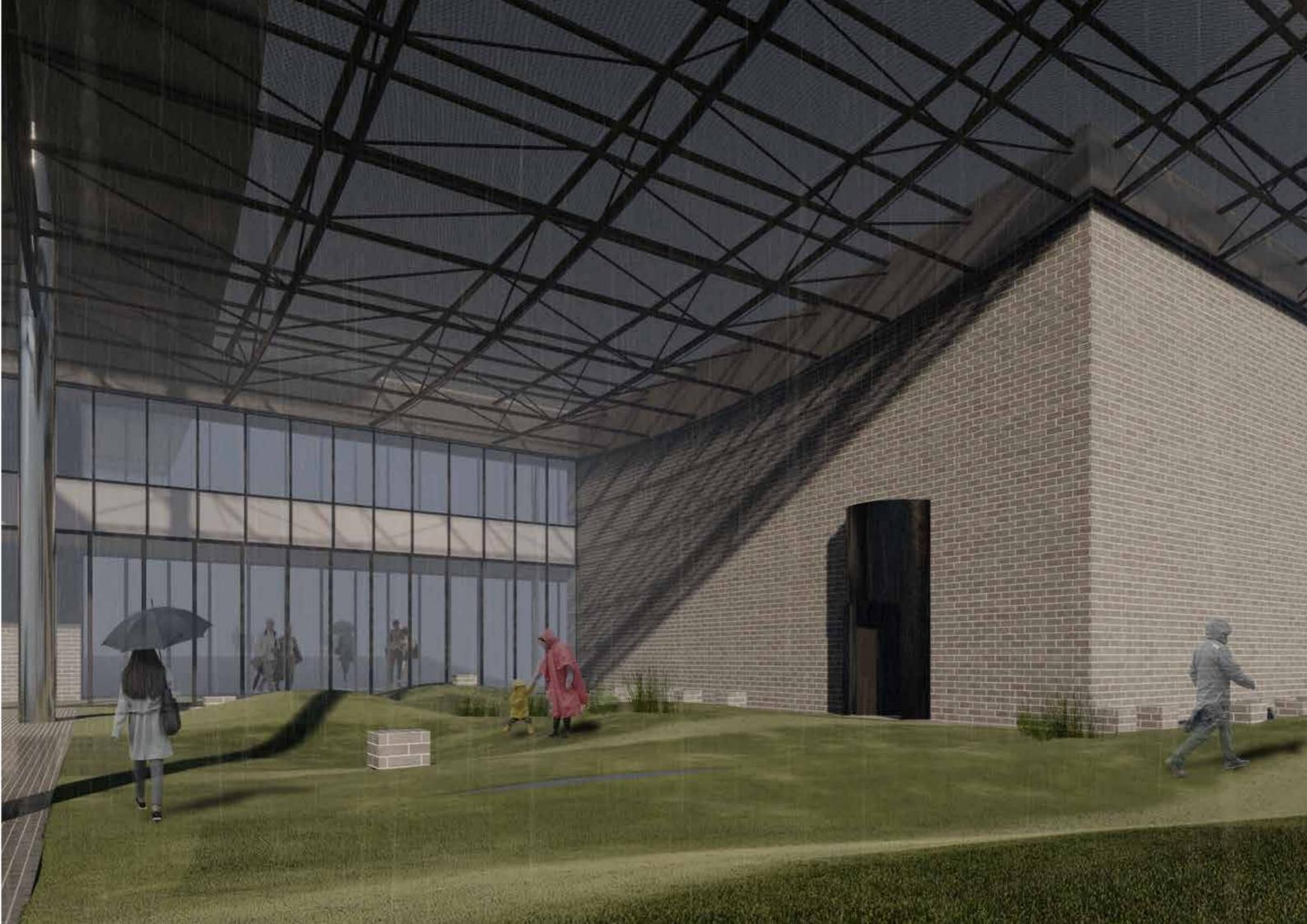


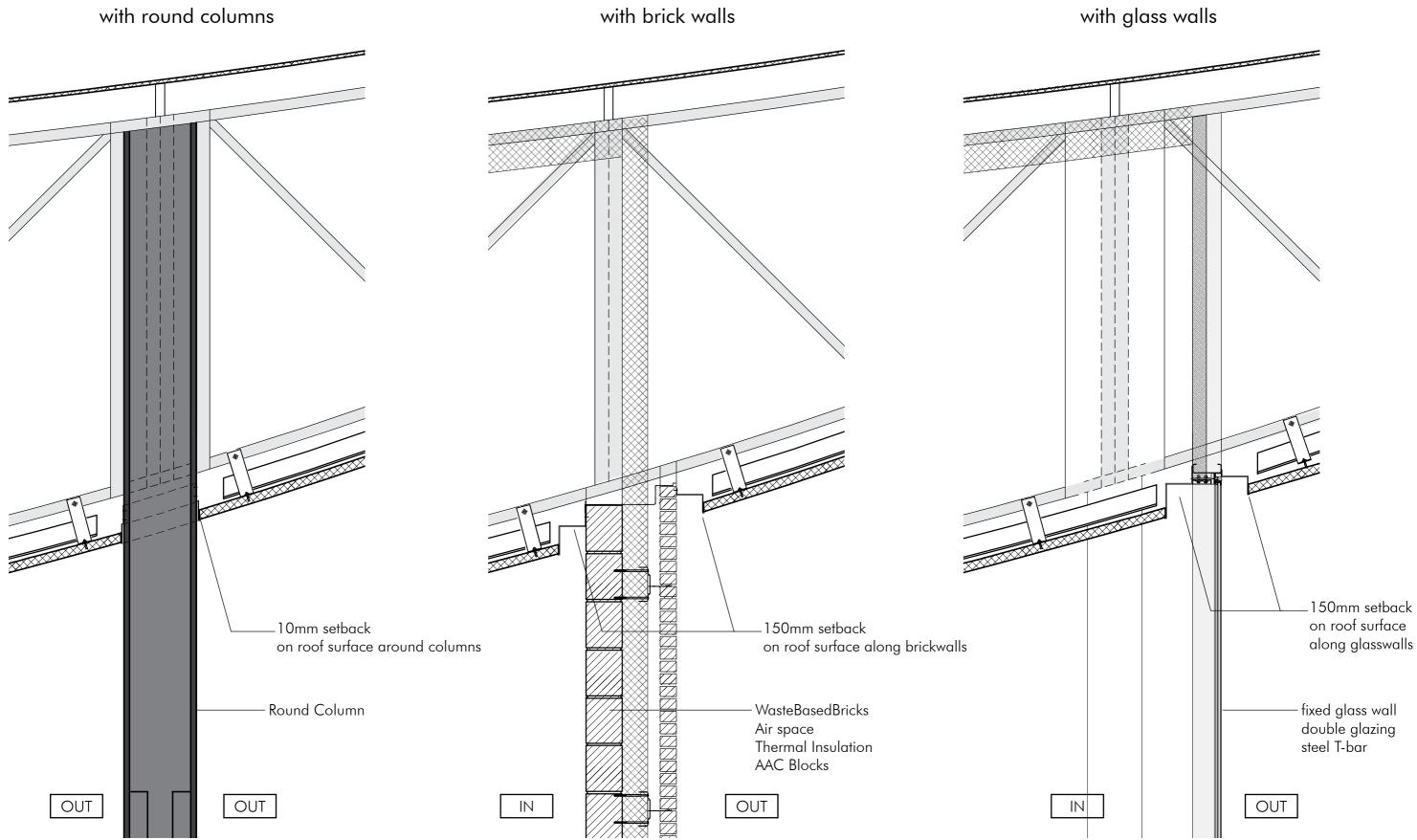
Art gallery in London by L'Atelier Senzu https://lateliersenzu.com/galerie-mai/

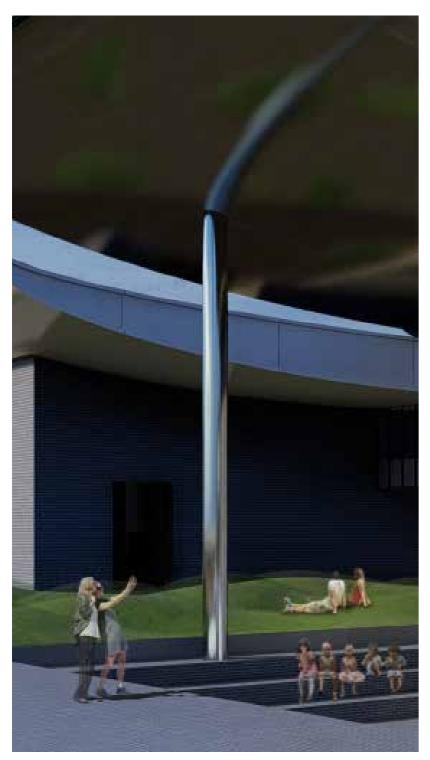
Indoor green - moss https://azumamakoto.com/209/











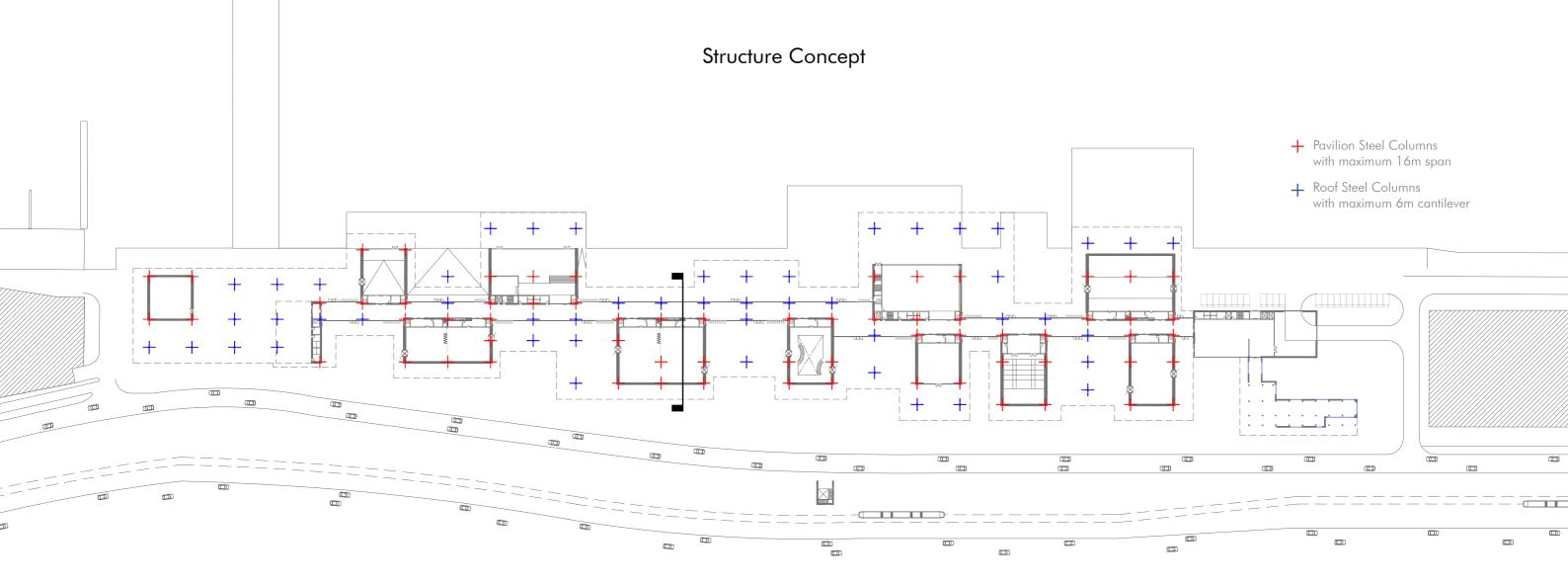
with round columns

with brick walls

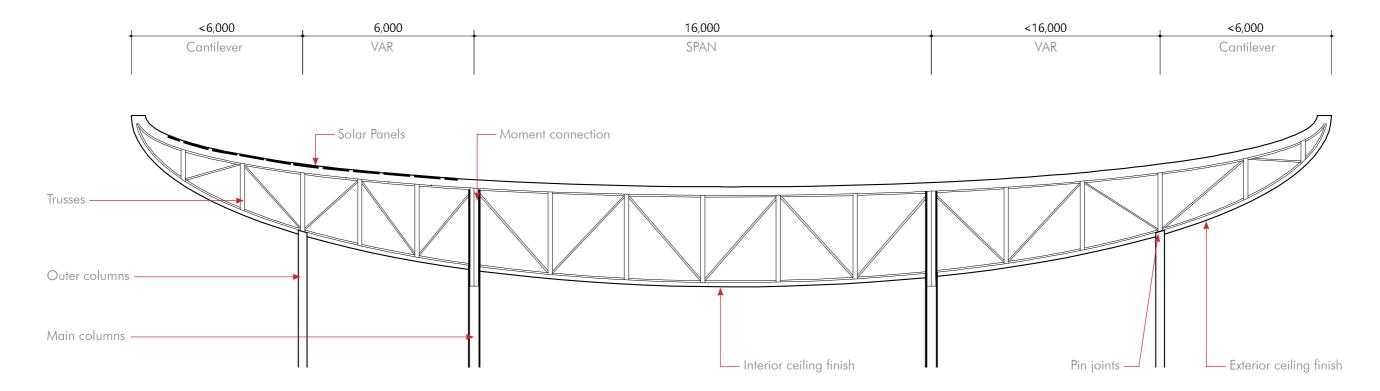


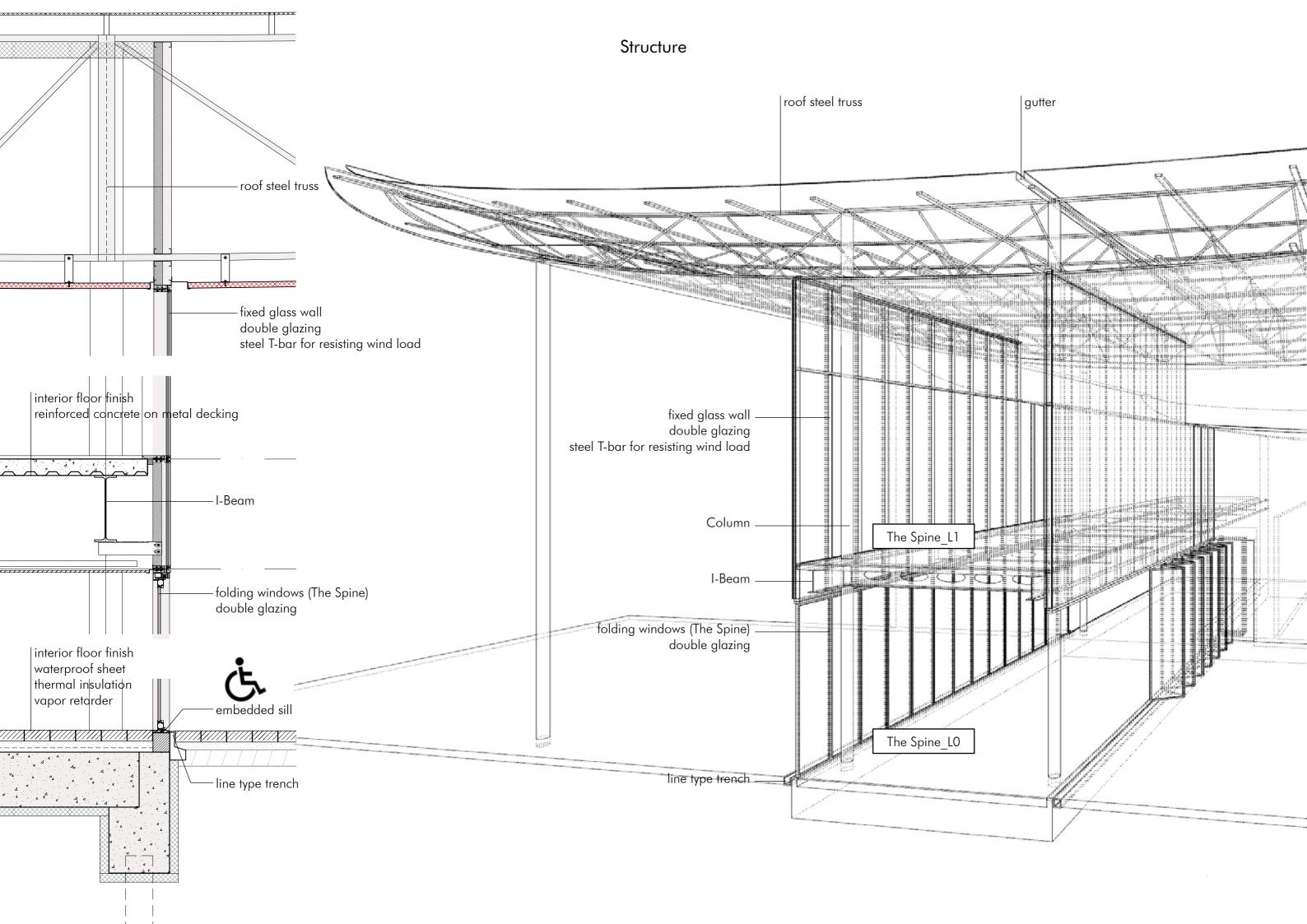
with glass walls





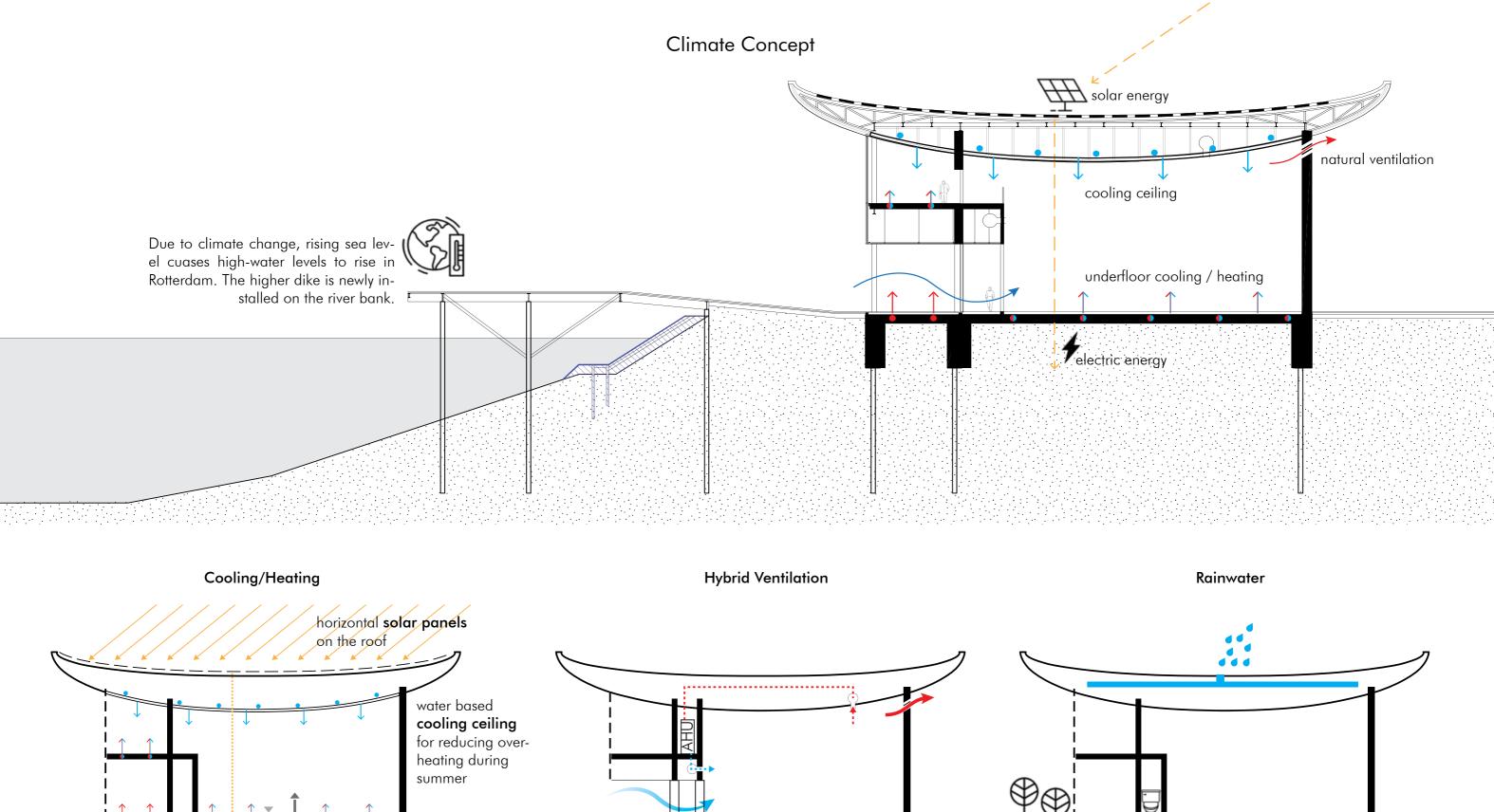
Typical Section for Roof Structure



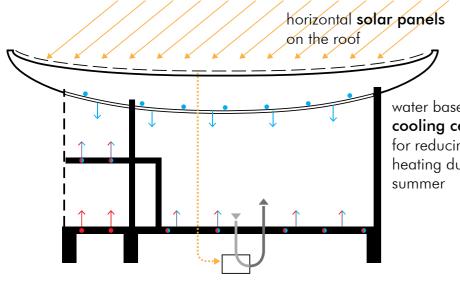






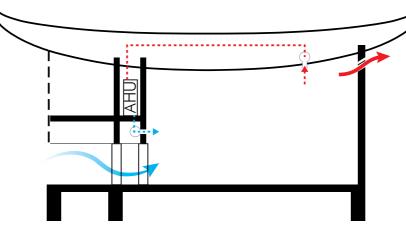


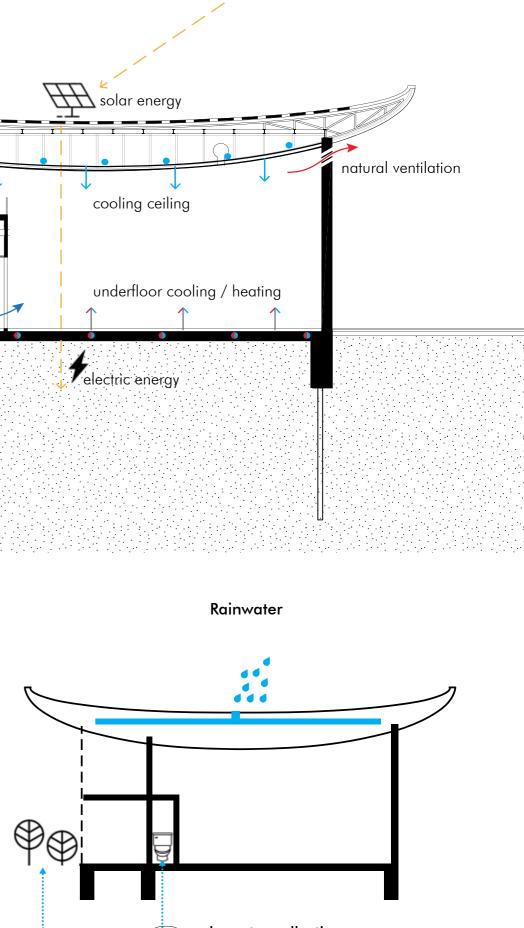




water based underfloor cooling & heating Floor heating with low energy temperature is installed to balance the whole building

heat pump using the electricity gained by the solar panels





primary - mechanical ventilation as an exhibition space

secondary - natural ventilation using roof shape

rain water collection Watering garden

Flushing toilets Supplementing the water supply in case of fire

