

modus museum

AR3AP100 | Public Building
THE NEW MUSEUM: Re-wiring the Art + City

Başak Günalp
5091888

Assessors:
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Sjap Holst
Sang Lee
Marjolein Spaans

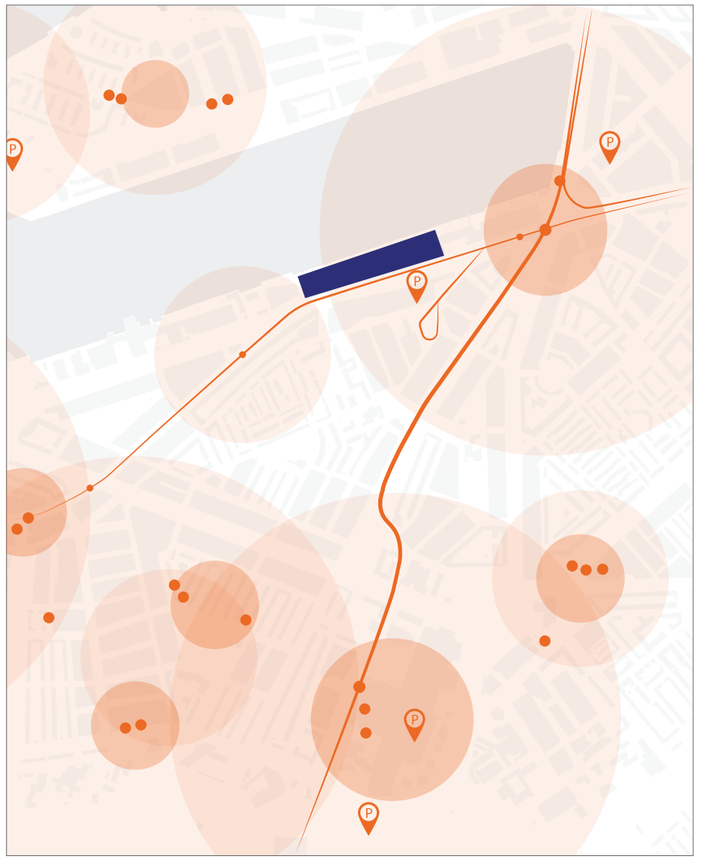
*mo·dus (n.): A qualification involving **the idea of variation** or **departure from some general rule or form**, in the way of either restriction or enlargement, according to the circumstances of the case, as in the will of a donor, an agreement between parties, etc.



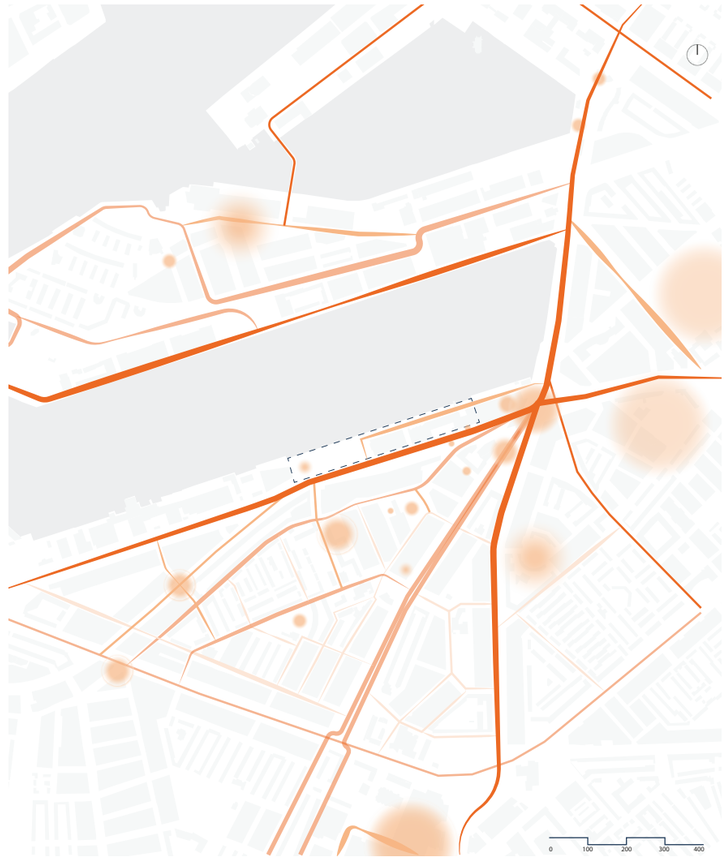
What is Art, Why is Art?
by Chris 'Freedom' Pape
a New York subway train



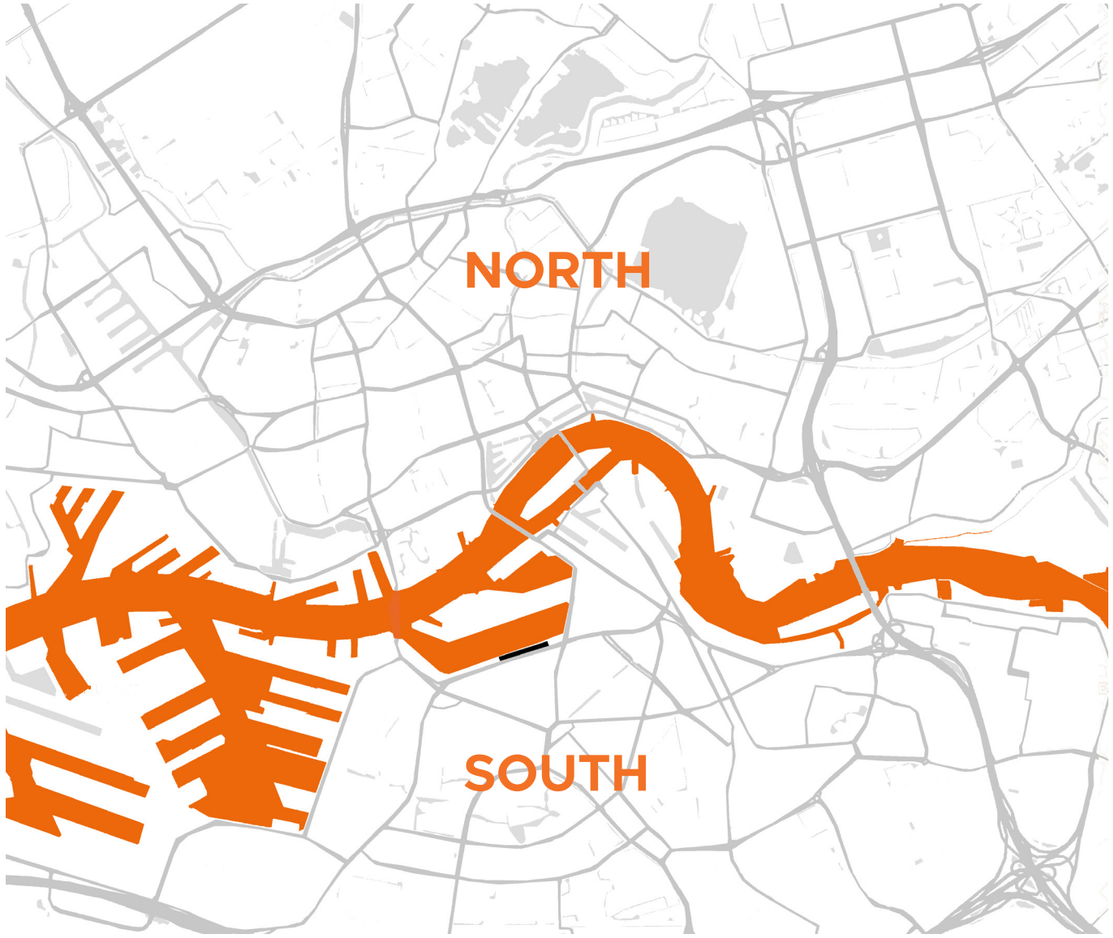
Transportation Connections



Radius of transportation performance



Pedestrian Density



Maas as a border between Rotterdam North and South

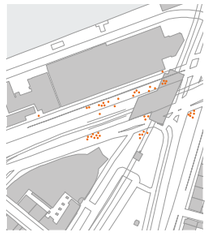
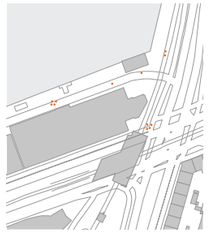
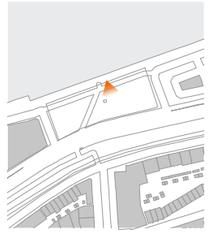
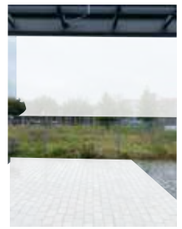
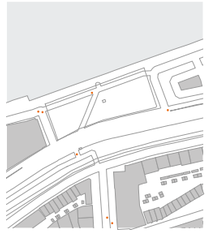
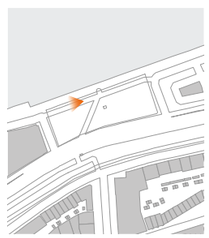
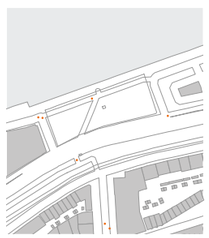


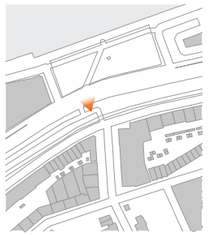
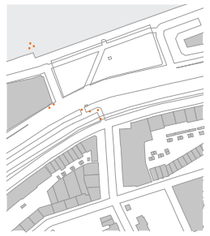
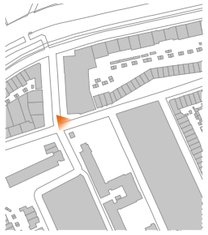
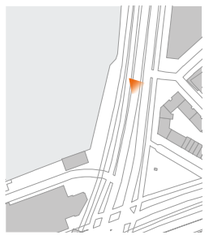
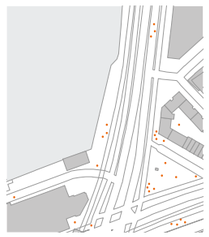
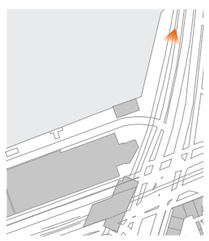
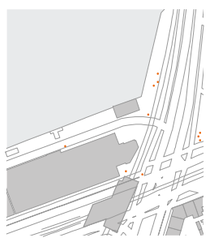





What speaks to us is always the big event. The daily papers talk of everything except the daily. What's really going on, what we're experiencing, where is it? How should we take account of the banal, the quotidian, the obvious? We are living it without thinking about it, as if it couldn't convey any question or answer. 1

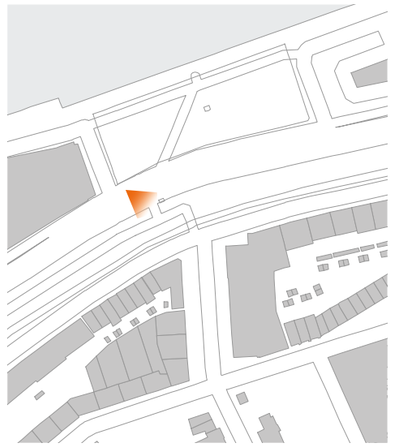
Georges Perec

	Views	Map	Important Elements	Density	Short Caption
1					-Transportation node -Dense and busy all times of day -Sense of shelter
4					-Industrial characteristics -View of Maas-silo -Site boundary elements
14					-Sense of shelter -Greenery with a boundary - Desolated than expected -Transition between the city and water
15					-Green space -Engages social interactivity -Public tools -Relation to water
16					-Dense traffic -Infrastructure as boundary -Guidance of signs -Not pedestrian friendly

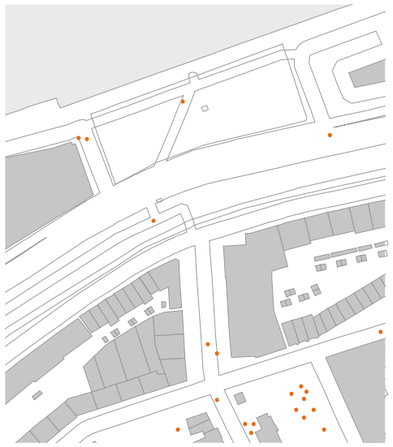
	Views	Map	Important Elements	Density	Short Caption
25					-Passage in the middle of greenery -Obstructed with railings -Improvised pathway contrasting the determined route
26					-Passage in the middle of greenery -Obstructed with railings physically and visually
27					-Car oriented area reflected by bollards -The sense of boundary -Distinction between vehicle and pedestrian
31					-Framing Maas -Seating elements for social interaction -Encounter of transportation units (tram, bike)
33					-Continuity of piles -Seating elements for social interaction -An intangible border

16



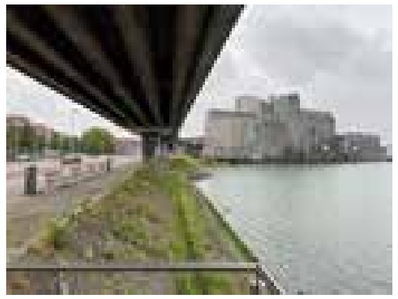


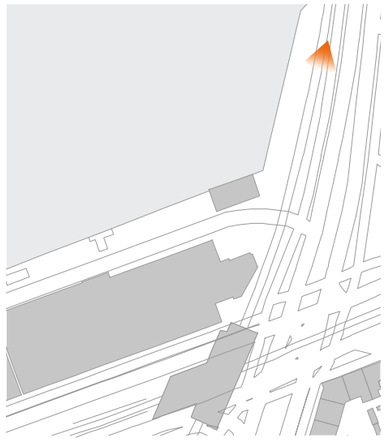




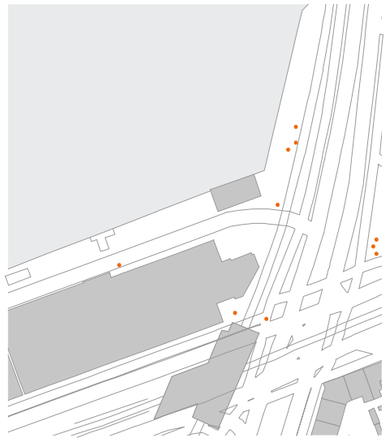
- Dense Traffic
- Infrastructure as a boundary
- Guidance of the signs
- Not pedestrian friendly

33

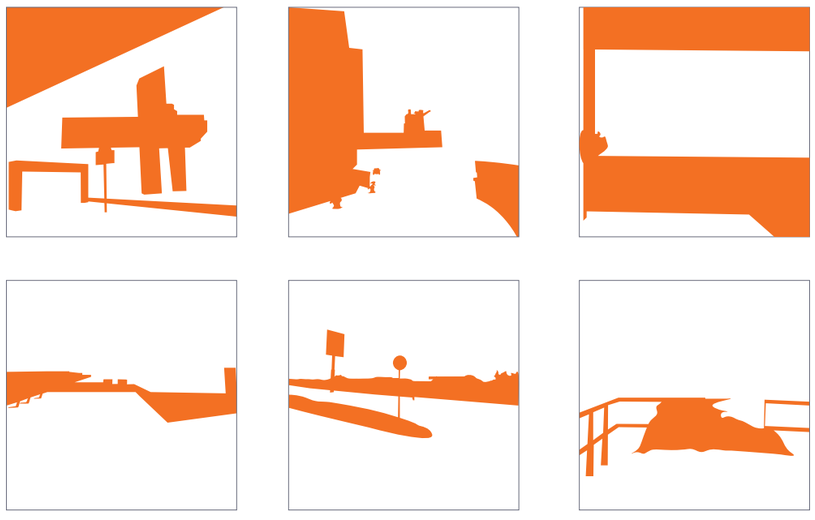




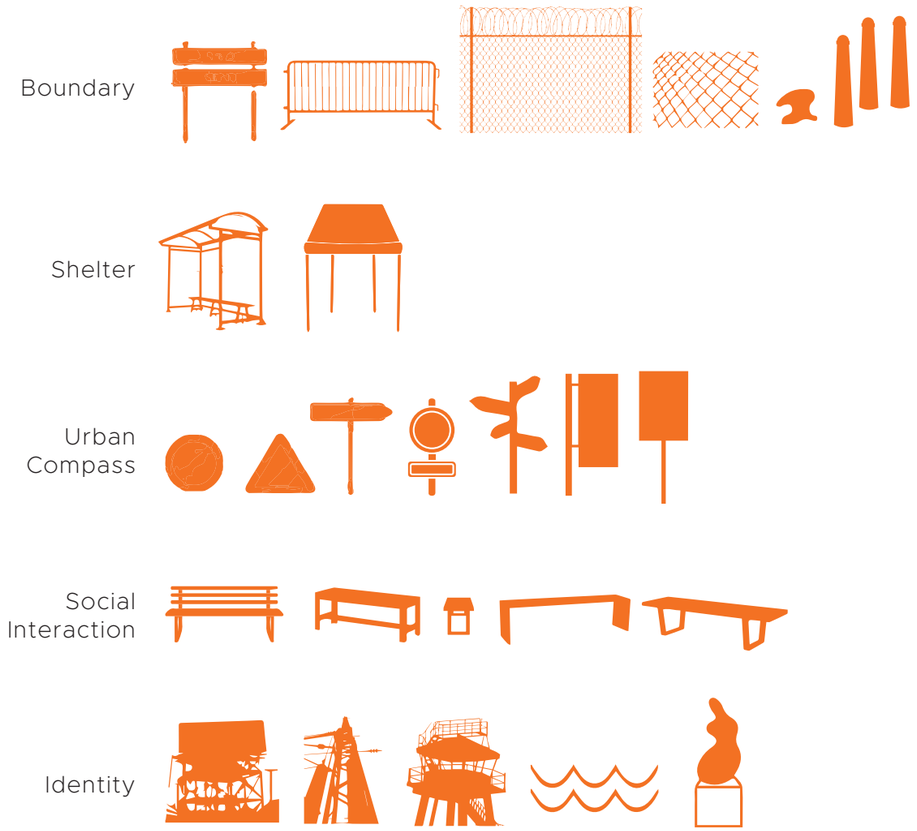




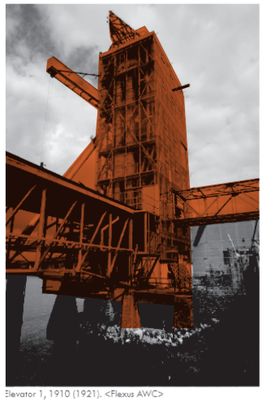
- Continuity of art piles
- Seating elements for social interaction
- An intangible border



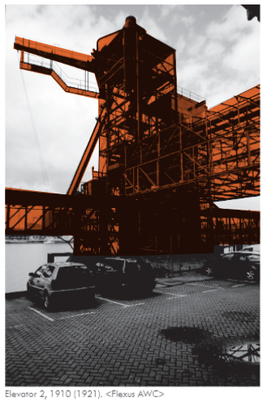
Observational Elements



Observational Elements - Hermeneutics

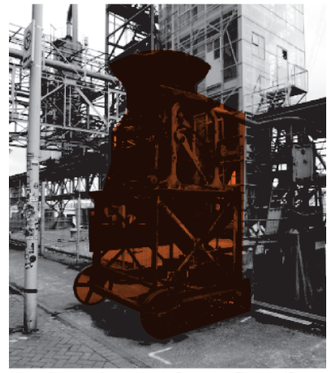


Elevator 1, 1910 (1921). <Flexus AWC>

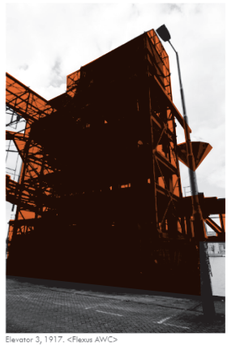


Elevator 2, 1910 (1921). <Flexus AWC>





Onbekend vrijstaand toestel bij de Graansilo. <Flexus AWC>



Elevator 3, 1917. <Flexus AWC>



Uiteinde elevatorbrug bij de Graansilo met een van de twee overgebleven beweegbare pneumatische elevatoren, 1930. <Flexus AWC>



Markt Maashaven met opgestapelde kratten marktwaar, 1964. Foto: A. Groeneveld. <SAR>



Lostoren Quaker Oats met verbindingsbrug, 1915. <Flexus AWC>

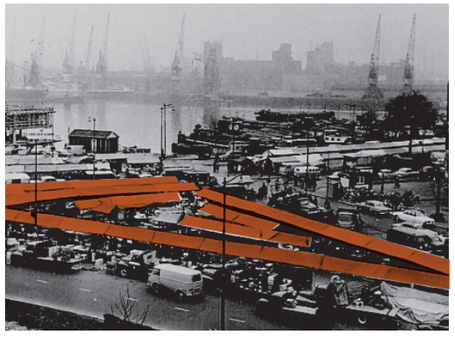




Foto van de oostoever, verhoogd na aanleg deltadijk en metroviaduct met aanlegplaats voor watertaxi, 2019. <Flexus AWC>



haven en tramhaltes (Poort van Charlois), 2019. <Flexus AWC>

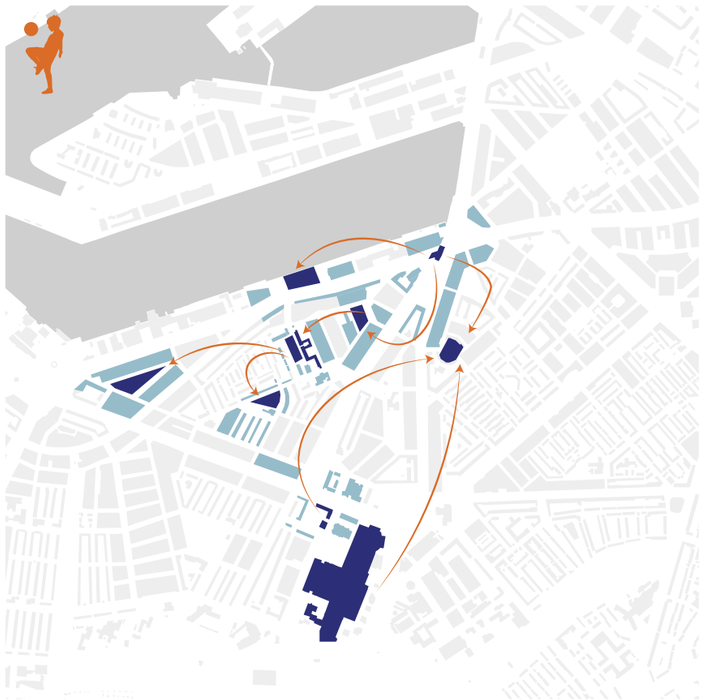
					.	S/N	.DA	BONG! DARED PET TEAM SMB	YOERI DOBPx
					NIKE JOAN	JOAN	YOERI MONY	I HATE TELLIN' GOOD PEOPLE BAD NEWS	**YO!** YOERI SKU ABS
					THE EYES CHICO	BAD GIRLS AINT NO GOOD AND THE GOOD GIRLS AINT NO FUN	+63	LOVE ART HAVE COPS	E.Y.B.T
					XEGX	STICKERS STICKERS STICKERS STICKERS STICKERS STICKERS	STICKERS STICKERS STICKERS STICKERS STICKERS STICKERS	GOOI JIJ DE TROSSEN LOS? THEATER ZUIDPLEIN ROTTERDAM- MER LAAT JE ZIEN!	OLD PHOTO- GRAPH OF TARWEWIJK
					ROTTERDAM ART RIDE (ROAR) PILLAR ART SAID KINOS	ROTTERDAM ART RIDE (ROAR) PILLAR ART JAN KALÁB	ROTTERDAM ART RIDE (ROAR) PILLAR ART ZEDZ	OLD PHOTO- GRAPH OF TARWEWIJK	DE DIJKW- ERKERS SCULPTURE BY EK VAN ZANTEN



Outsider



Young Local



Local kid



Elderly Local

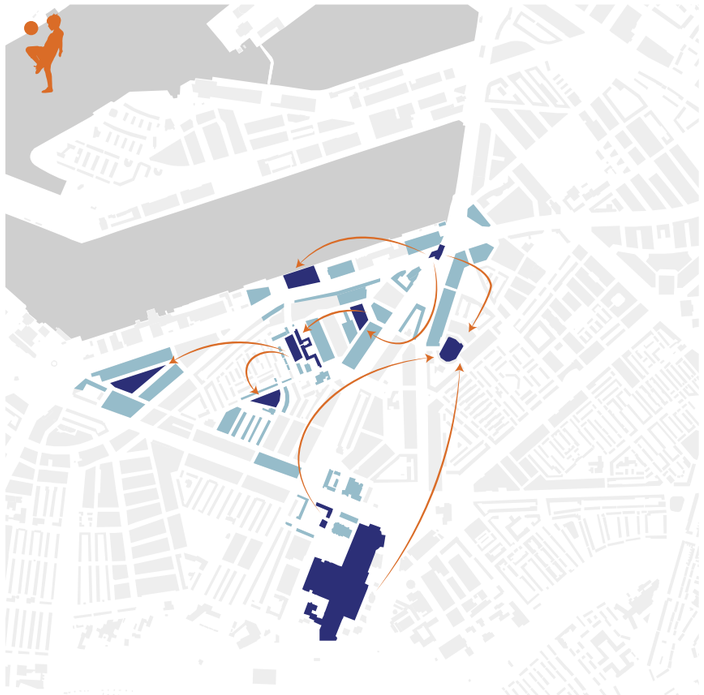
Psychogeography Maps



Outsider



Young Local



Local kid



Elderly Local

Psychogeography Maps

Outsider

Young Local



Local kid

Elderly Local

Psychogeography Maps | Anchor Points

Outsider

Young Local

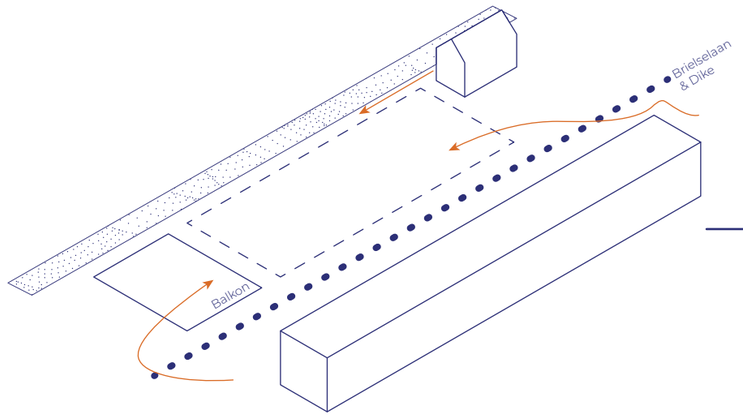


Local kid

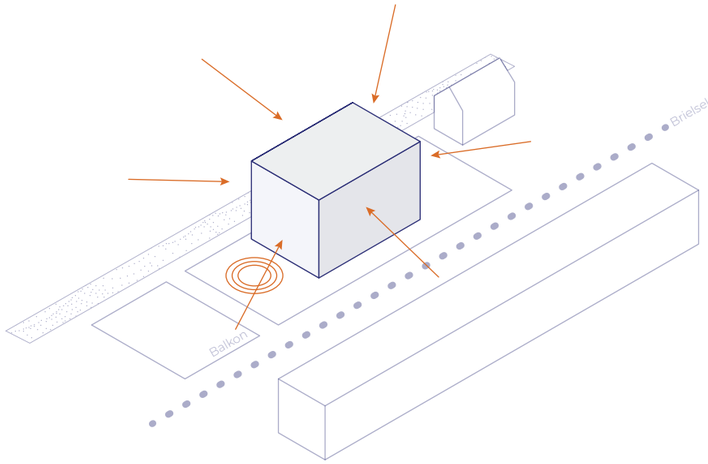
Elderly Local

Psychogeography Maps | Anchor Points

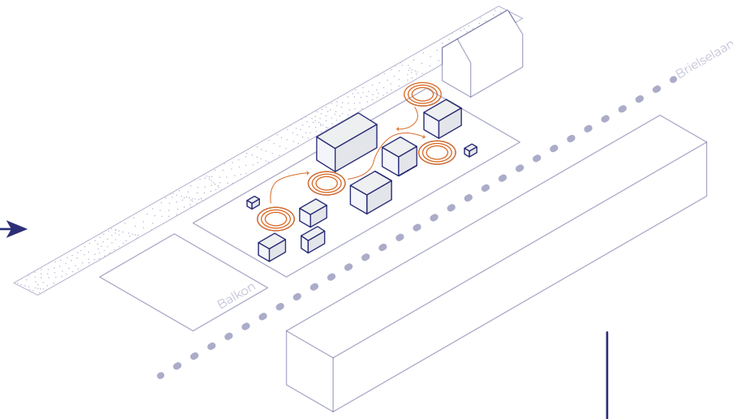

SOUTH
NORTH



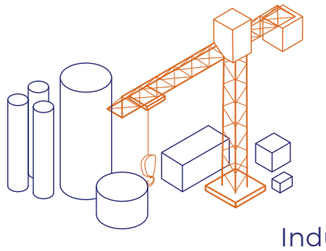
The site



Generic Museum - Box
Public space not integrated

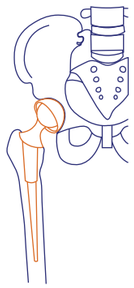


Integration of spontaneity
and everyday life into
museum
Connection of vibrant
public space with masses

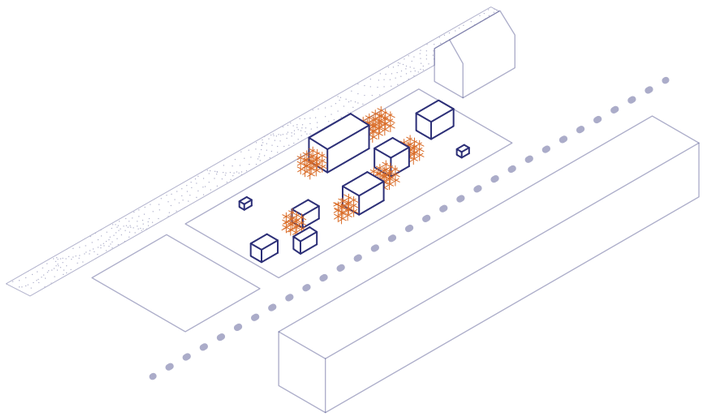


Industrial characteristics
of the site
Rotterdam as a port city

Multiplicity of
context
use
program
users
materialty



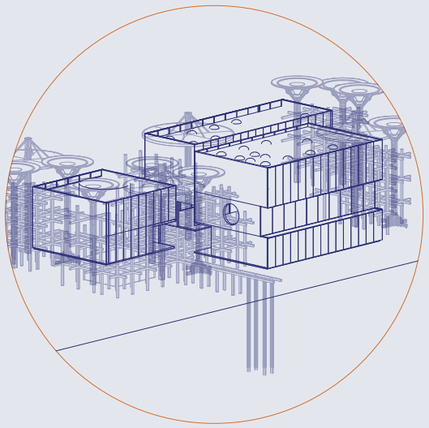
Idea of prosthesis
Enhancing the
function of the
museum



1- Online Reservation System
2- Storage for the materials
3- Information Points - access to the Cookbook
4- Building Consultation Office
5a&5b- Exterior & Interior Building Workshops
6- Transportation of elements from logistics area to prosthesis
7- Building on-site - mantling and dismantling of the elements

10m

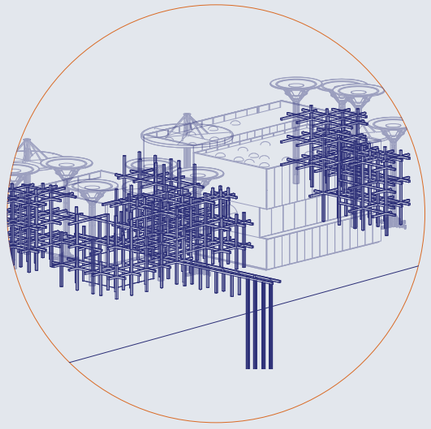
Building Components



Mass

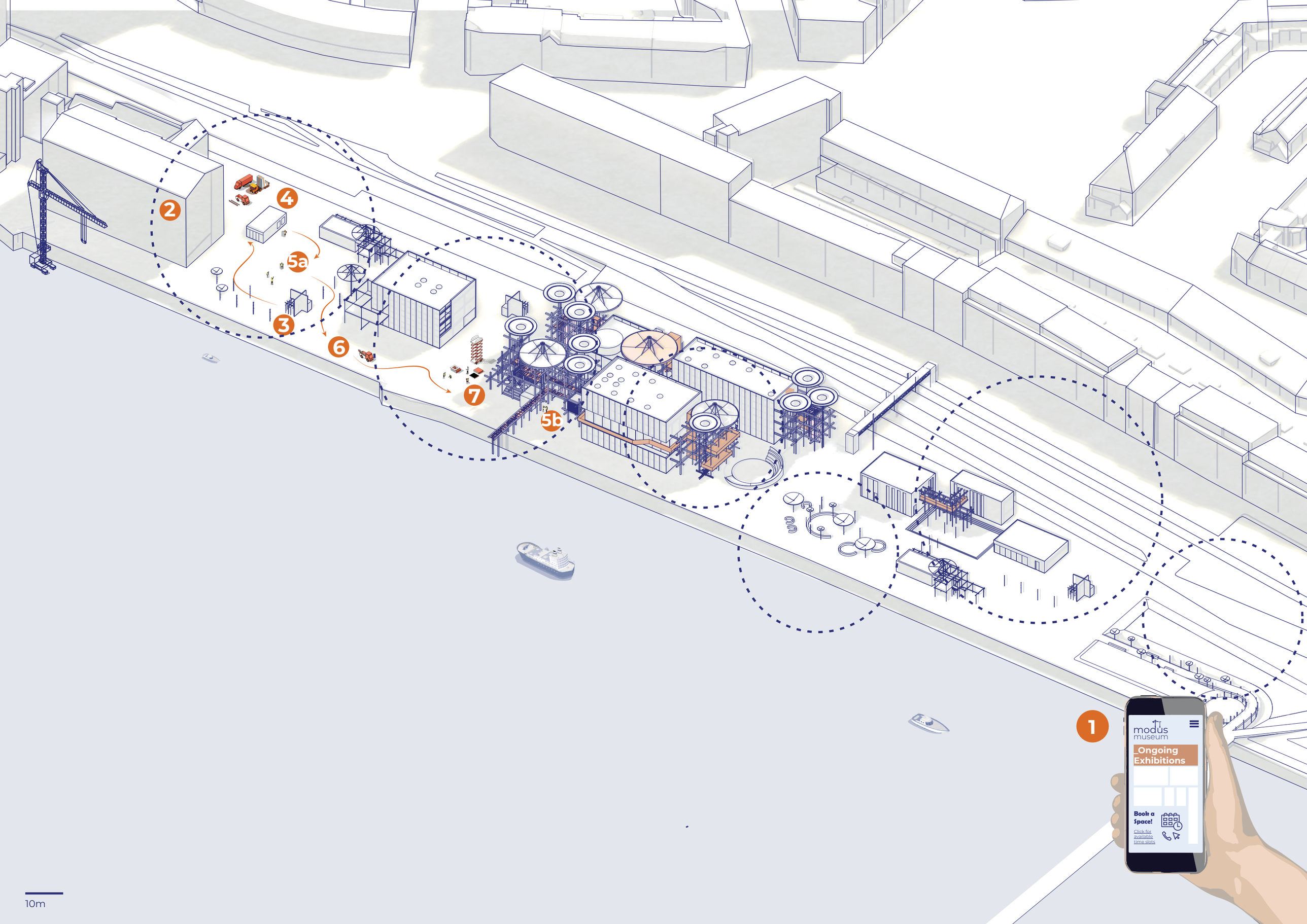


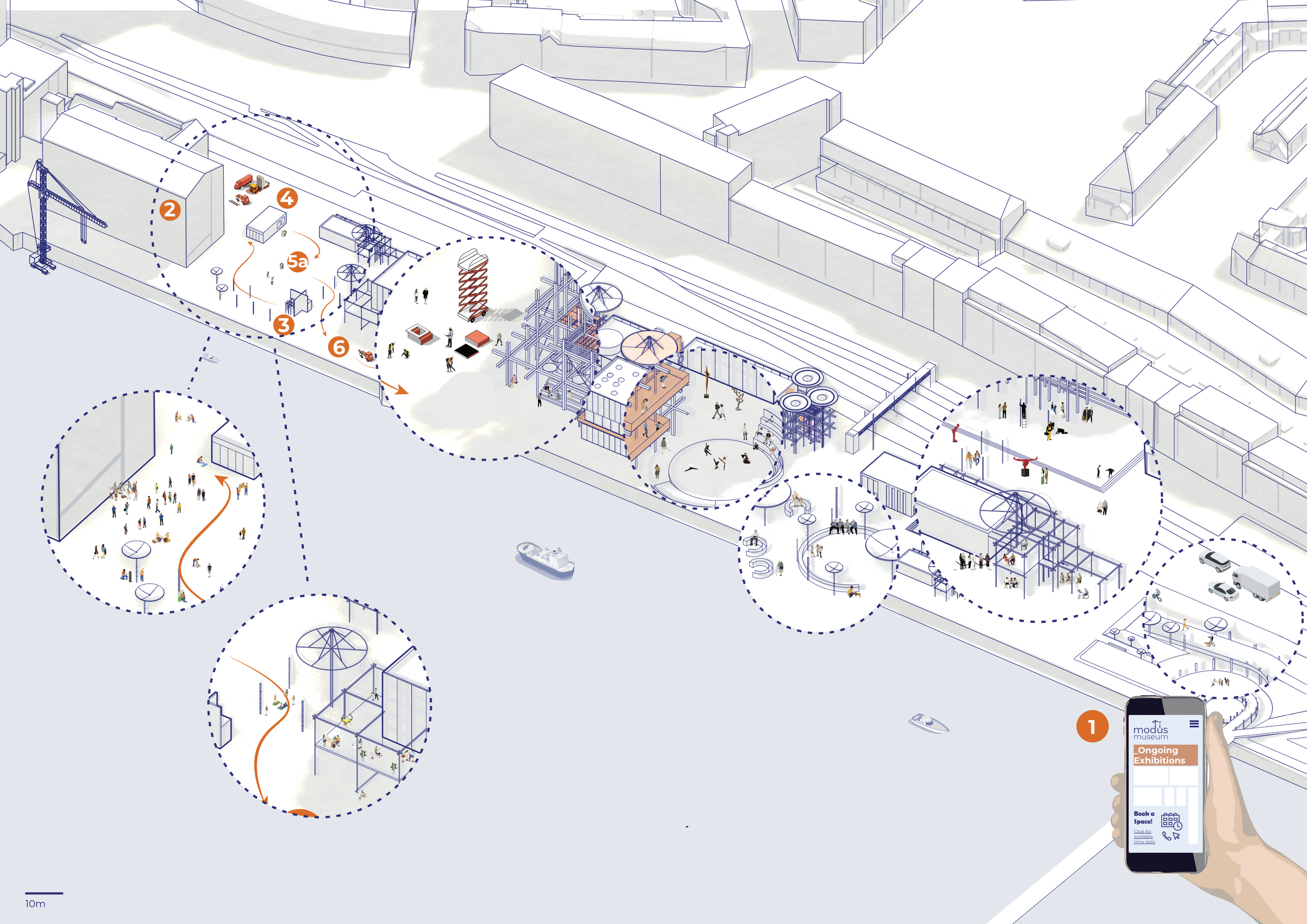
Interactive canopies



Prosthesis




2
4
5a
3
6
7
5b
1
modus
museum
_Ongoing
Exhibitions
Book a
Space!
Click for
available
time slots
10m


2
4
5a
3
6
1
modus
museum
_Ongoing
Exhibitions
Book a
Space!
click for
available
time slots
10m



Scale 1:1000

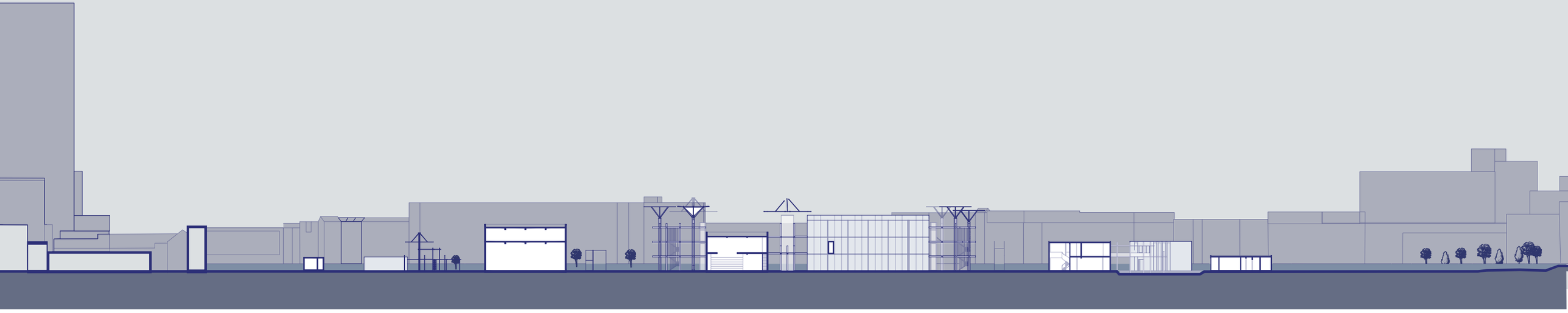
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Outside interaction

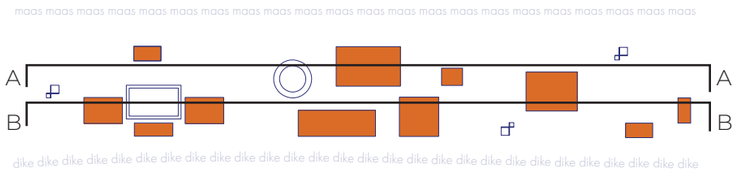
Access from sides



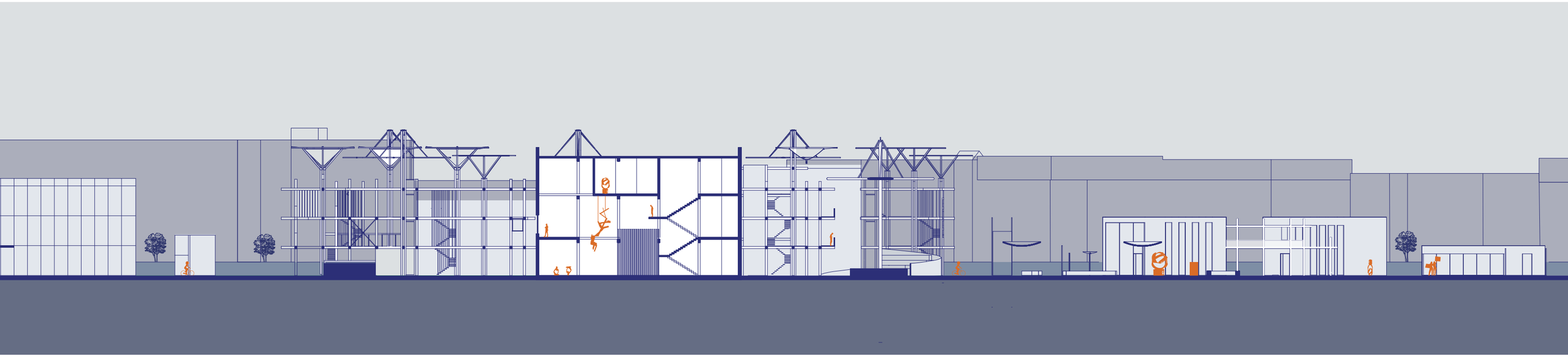
Section AA



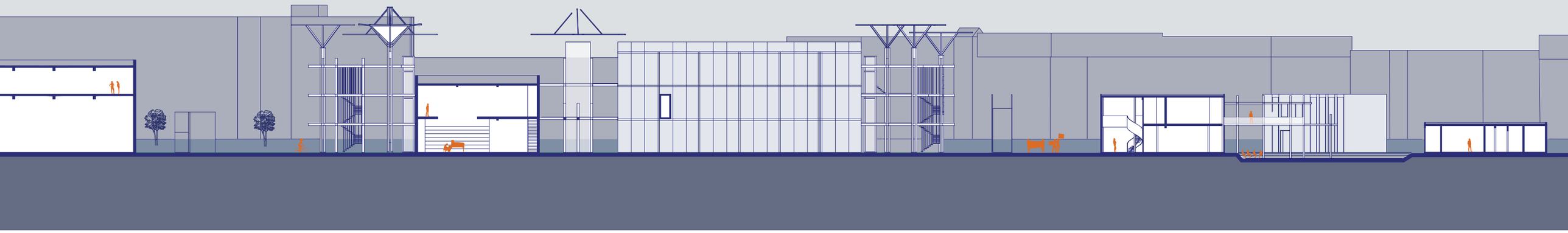
Section BB



10m
Scale 1:1000

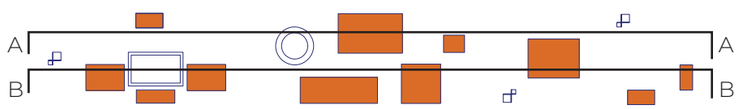


Section AA



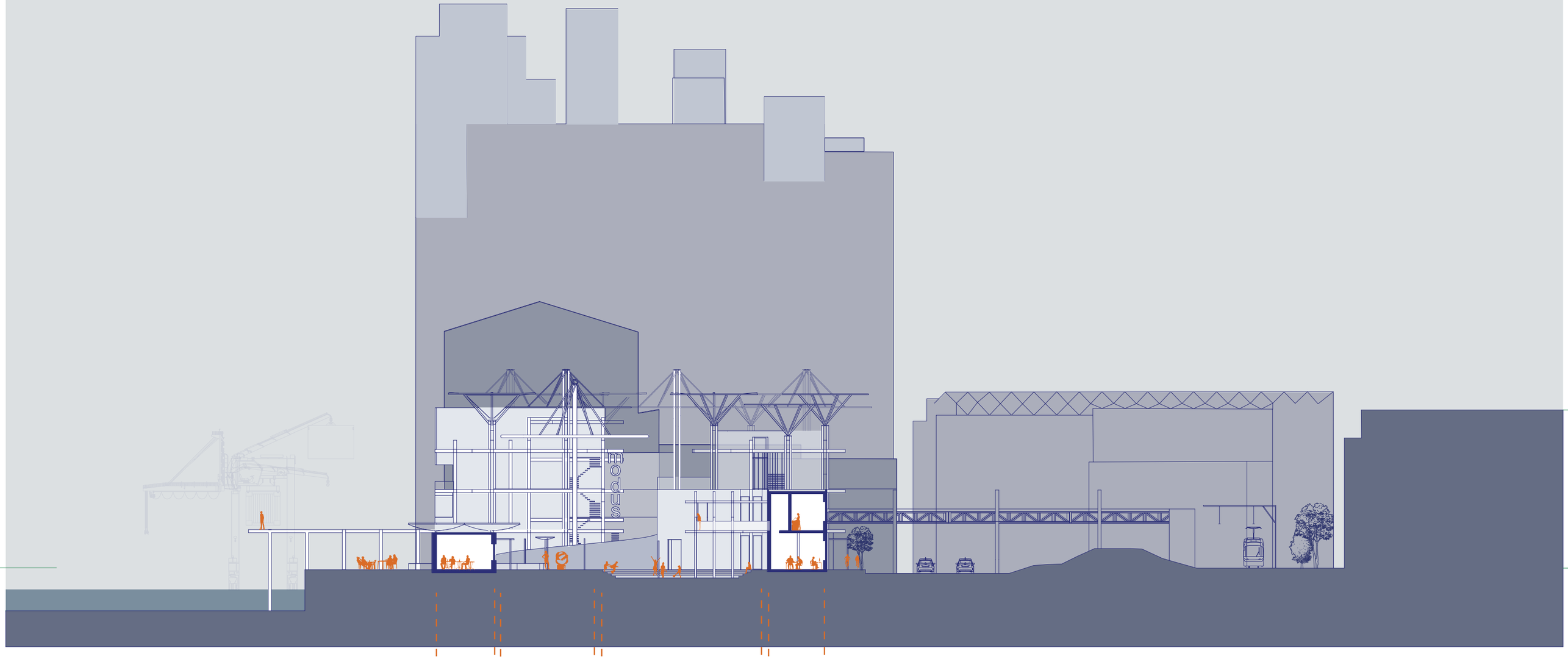
Section BB

maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas



dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike

10m
Scale 1:500



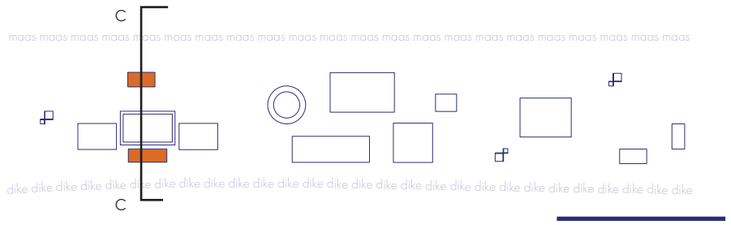
Cafe

Exterior Art Route

Sunken Plaza

Staff Office

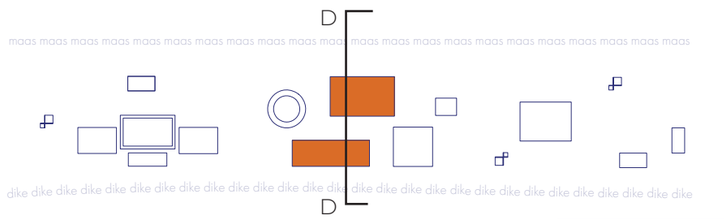
Mediating Cluster



10m

Theme Art Gallery

Participatory & Collective Art Gallery

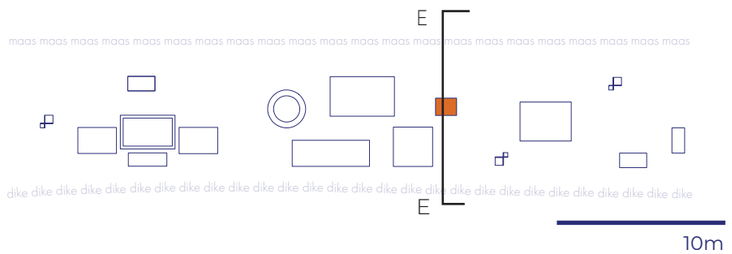


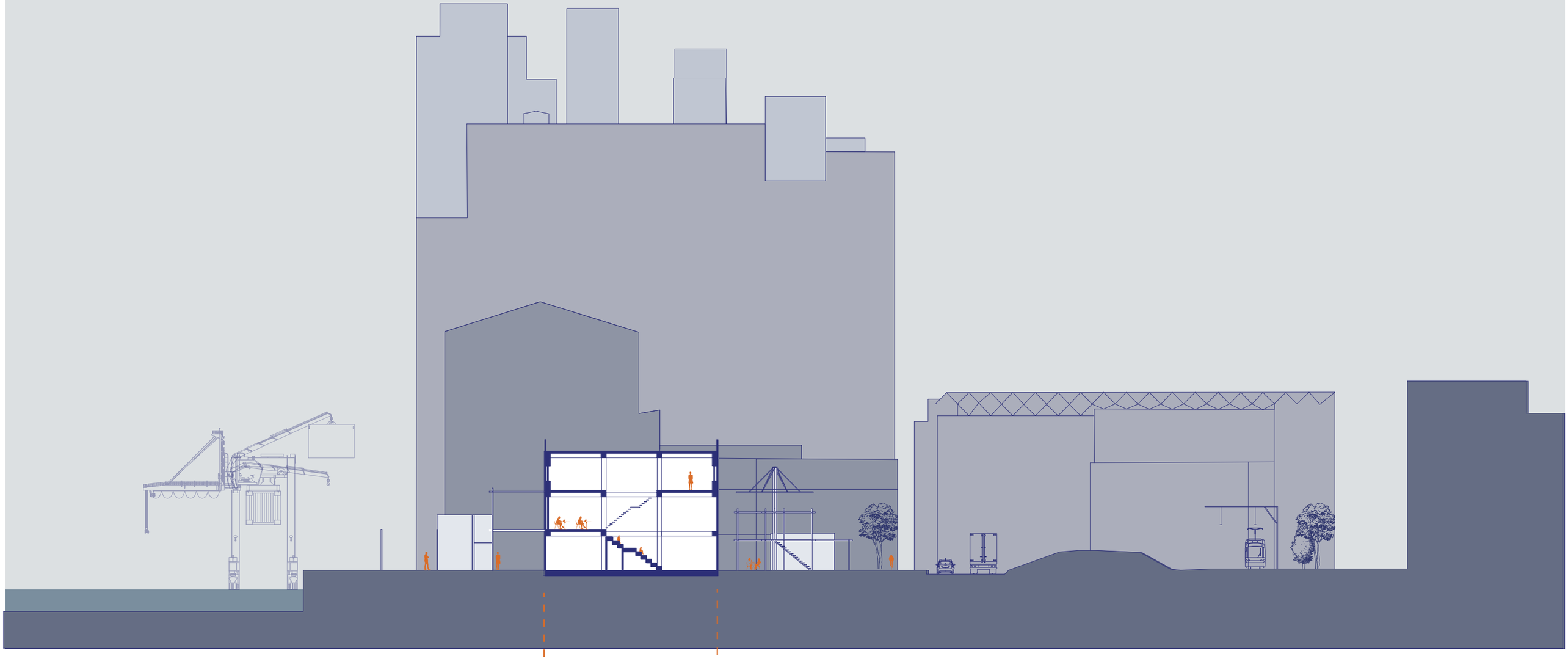
10m

Cafe

Building Workshop

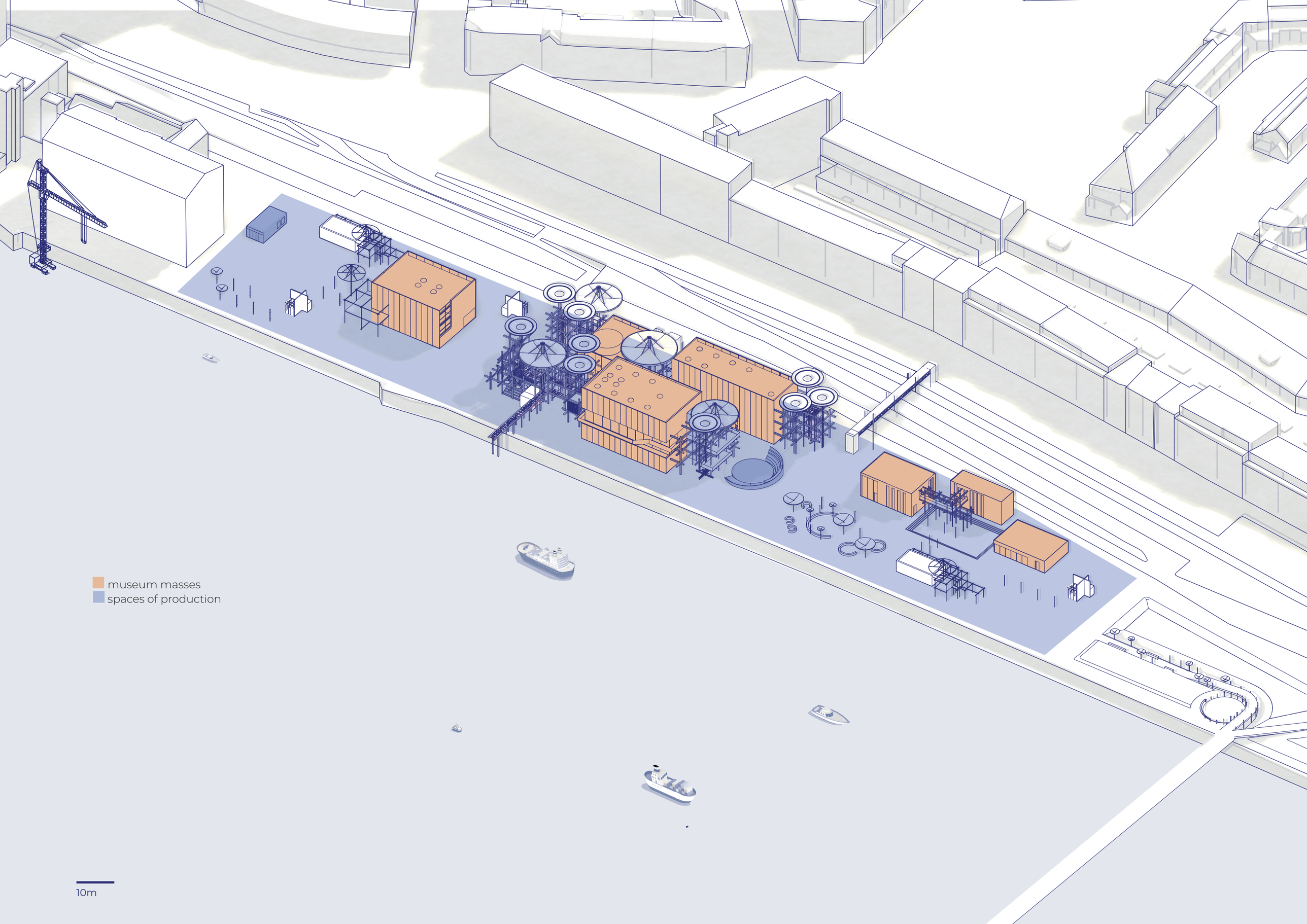
Building Space




Education Hub
F
F
10m

education cluster
art cluster
mediating cluster

10m


museum masses
spaces of production
10m

cafe
info pt
building consultation
storage
logistics point
open event area

mediating cluster
- collaborative office
- staff office
- museum store & reservation-ticketing

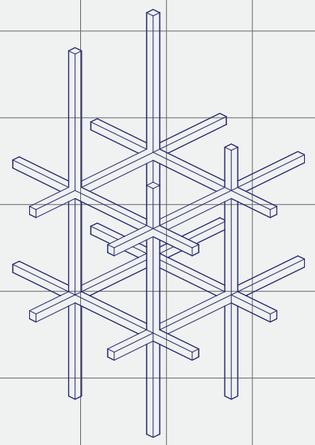
exhibition
- theme art gallery
- sound art gallery and hang-out space
- participatory and collective art gallery
- open performance point

education hub
- conference hall
- common study
- library

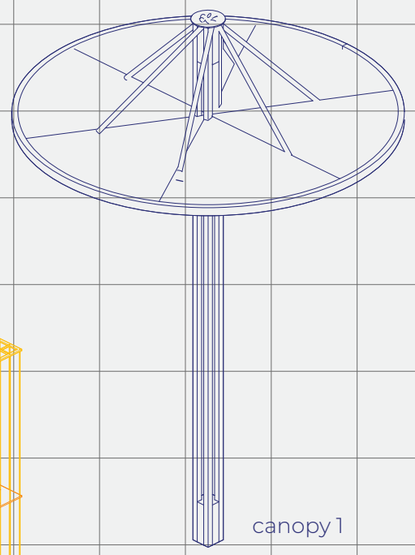
10m

Formal Structures

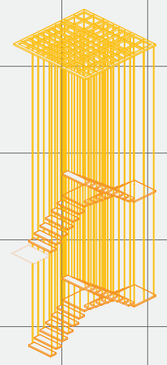
Informal Structures



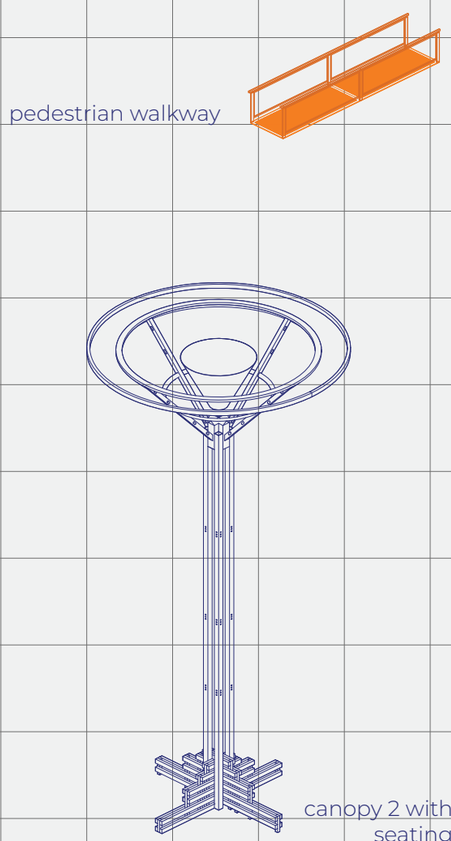
partial prosthesis



canopy 1

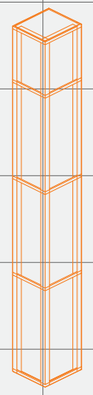


stairs

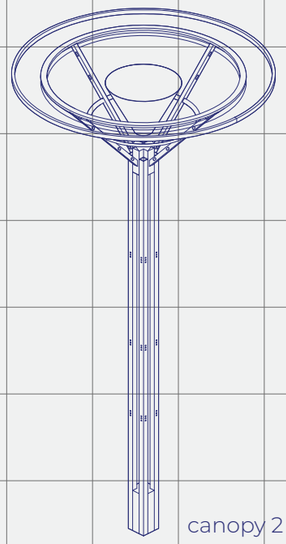


pedestrian walkway

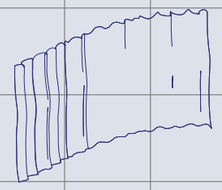
canopy 2 with seating



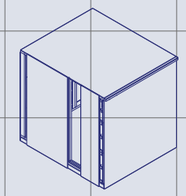
vertical circulation



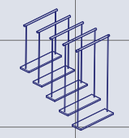
canopy 2

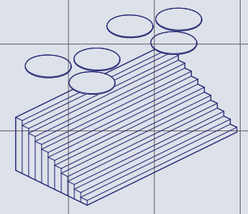


fabric for partition and shelter

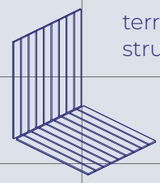


atelier type

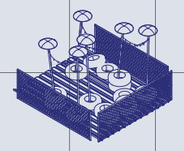




interactive stairs



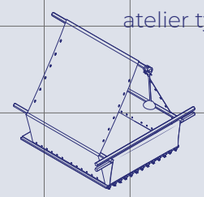
terrace structure



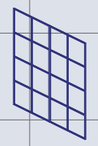
atelier type



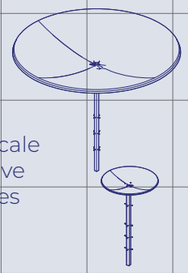
hoisting beam & “touw en blok”



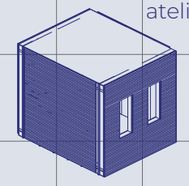
atelier type



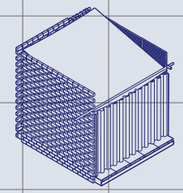
exterior exhibition frame



small scale refractive canopies



atelier type

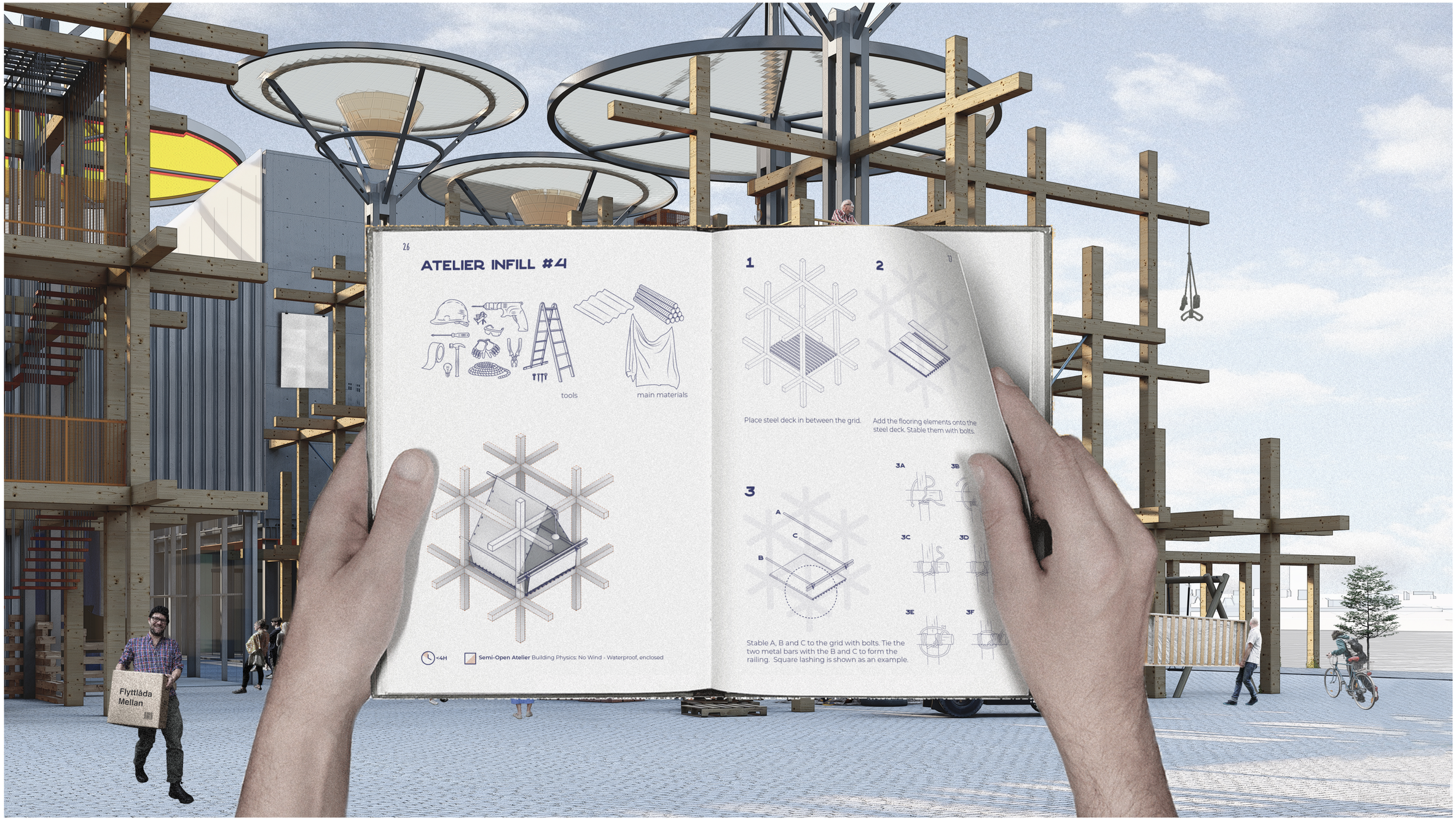


atelier type



10m


Flyttlåda
Mellan
YOTOTA
YOTOTA


26
ATELIER INFILL #4
tools
main materials
<4H
Semi-Open Atelier Building Physics: No Wind - Waterproof, enclosed
1
2
Place steel deck in between the grid.
Add the flooring elements onto the steel deck. Stable them with bolts.
3
A
B
C
3A
3B
3C
3D
3E
3F
Stable A, B and C to the grid with bolts. Tie the two metal bars with the B and C to form the railing. Square lashing is shown as an example.
Flyttlåda
Mellan


YOTOTA

10m
Scale 1:500

mediating cluster

- cafe / coffee corner
- info point
- staff office
- co-work office
- museum store
- ticketing & reservation
- performance stage
- galleries
- building workshop
- education hub
- building consultation office
- storage

10m
Scale 1:500

mediating cluster

- cafe / coffee corner
- info point
- staff office
- co-work office
- museum store
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- performance stage
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- education hub
- building consultation office
- storage

theme art gallery

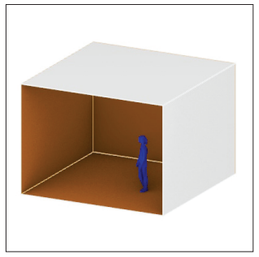
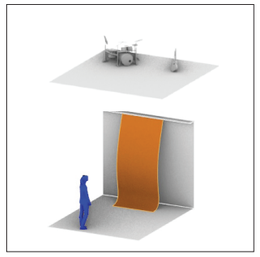
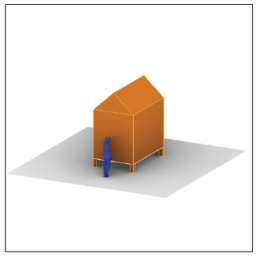
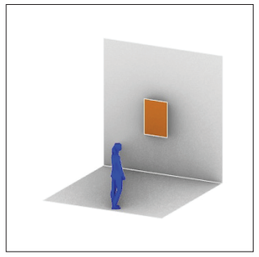
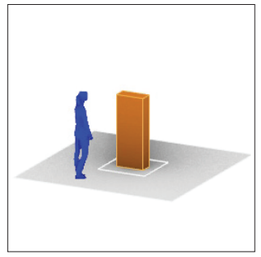
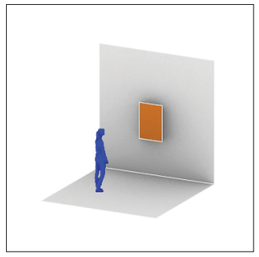
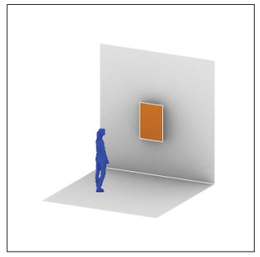
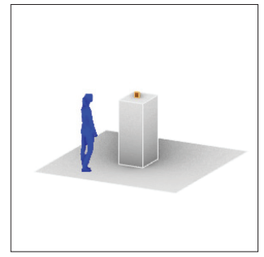
gathering & building area

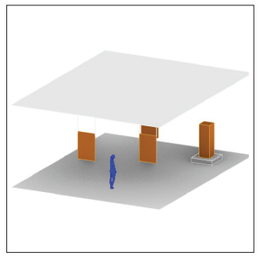
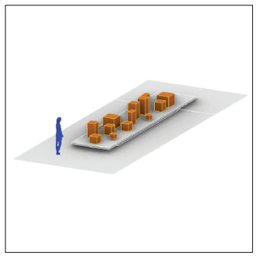
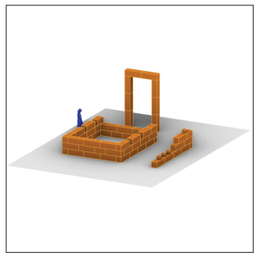
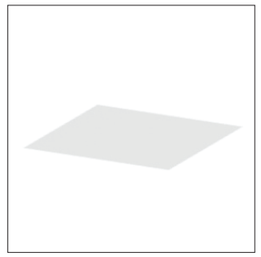
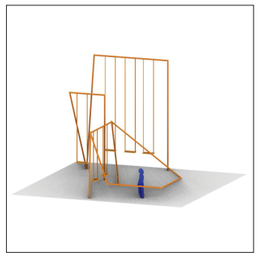
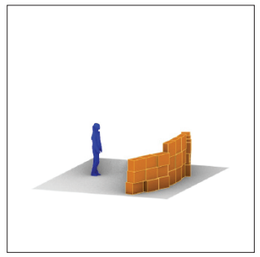
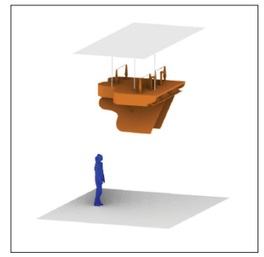
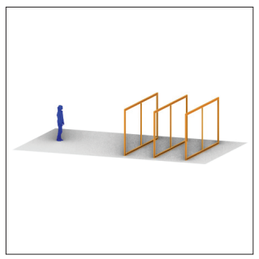
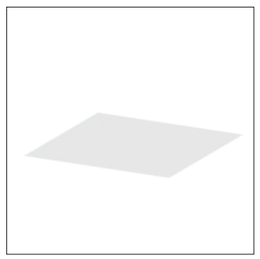
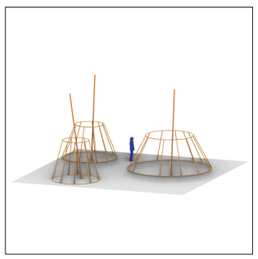
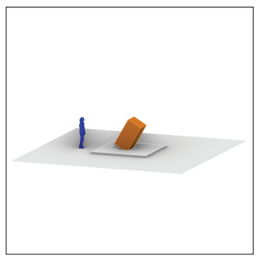
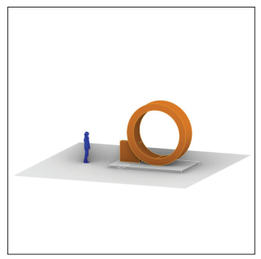
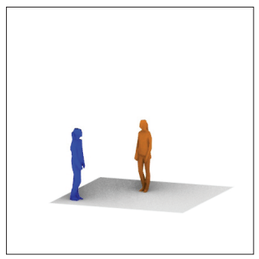
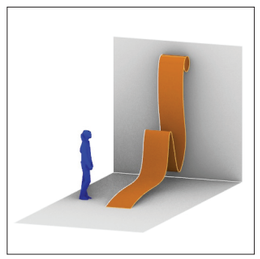
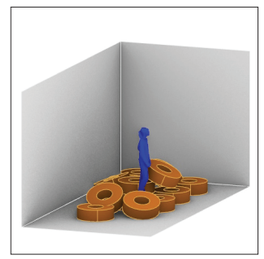
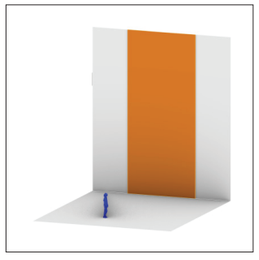
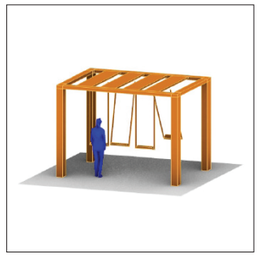
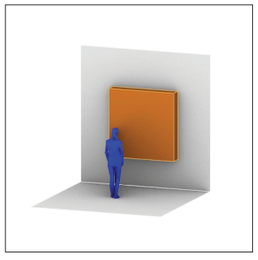
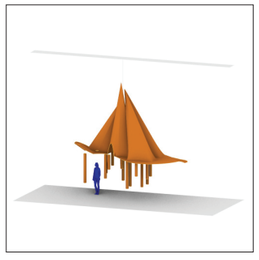
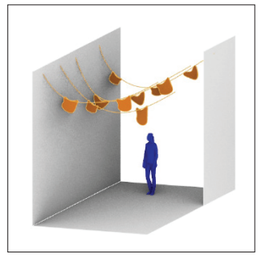
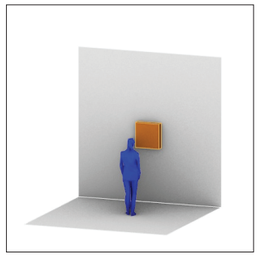
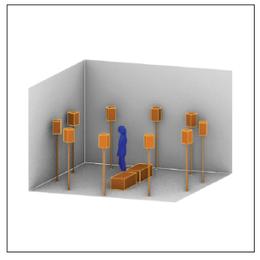
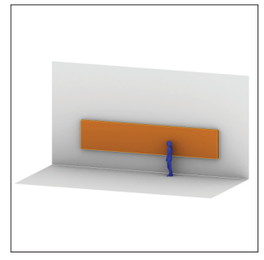
participatory & collective art gallery

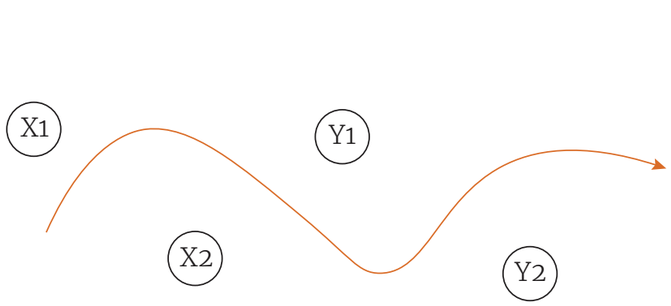
sound art gallery & hang-out space



Theme Art Gallery – Interior

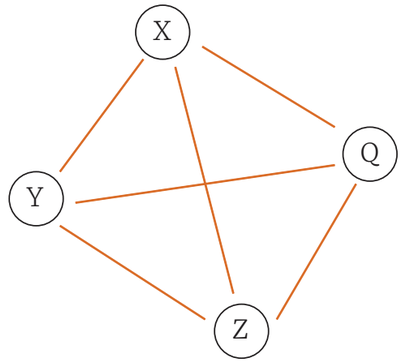


























Dynamic Choreography

Circulation is the part of the choreography

A motion without the aim of arriving



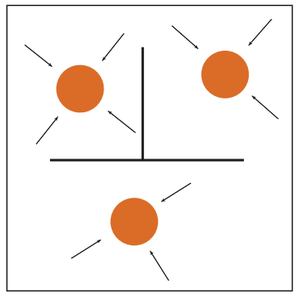
Static Choreography

Circulation is functional

A motion with the aim of arriving somewhere

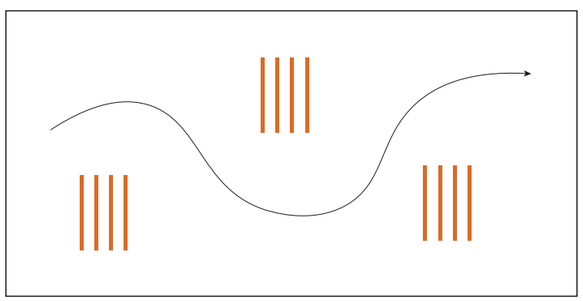
1_ Music Performances + Sound Art

Closed & semi-open spaces
Sound control
Spaces with “a” focus



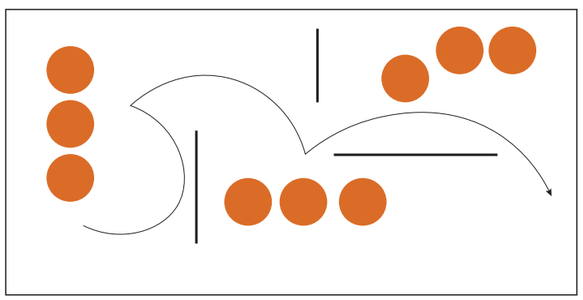
2_ Theme Art (Paintings & Sculptures)

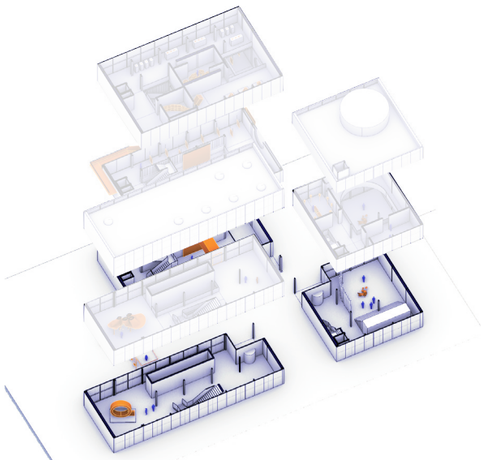
Open & semi-open spaces
Light control
The gaze is continuous



3_ Participatory & Collective Art

Multi-purpose spaces
Spaces with “a” focus but the gaze is continuous





Figures Composition by
Davood Koochaki

Quickening by
Shinique Smith

Theme Art Gallery

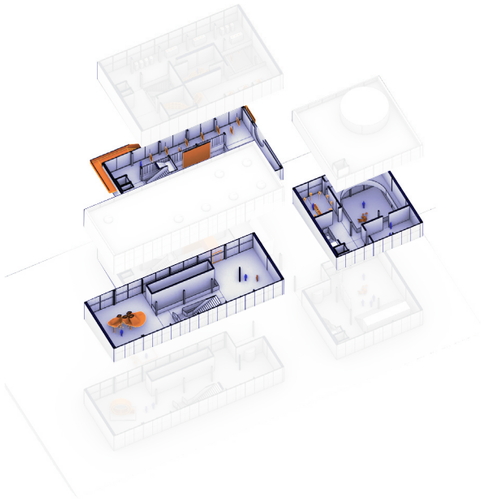
COL-ART exhibition music
performance

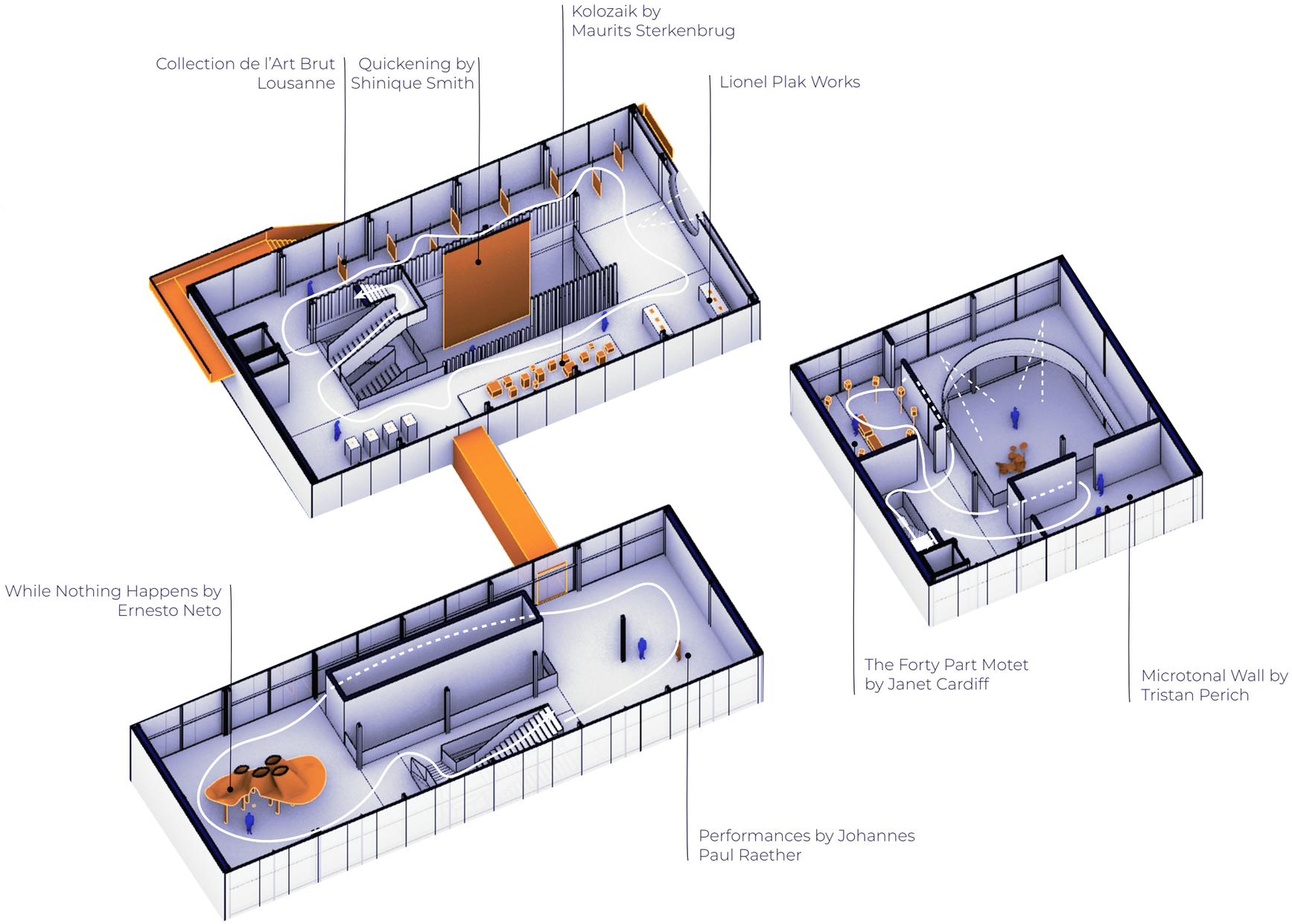
One Two Three Swing!
by Superflex

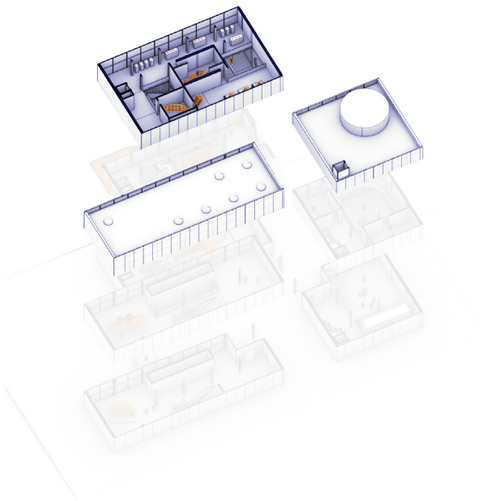
Music Performances +
Sound Art Gallery

Participatory &
Collective Art Gallery

The Big Wheel by
Chris Burden




Collection de l'Art Brut
Lousanne
Quickening by
Shinique Smith
Kolozaik by
Maurits Sterkenbrug
Lionel Plak Works
While Nothing Happens by
Ernesto Neto
Performances by Johannes
Paul Raether
The Forty Part Motet
by Janet Cardiff
Microtonal Wall by
Tristan Perich

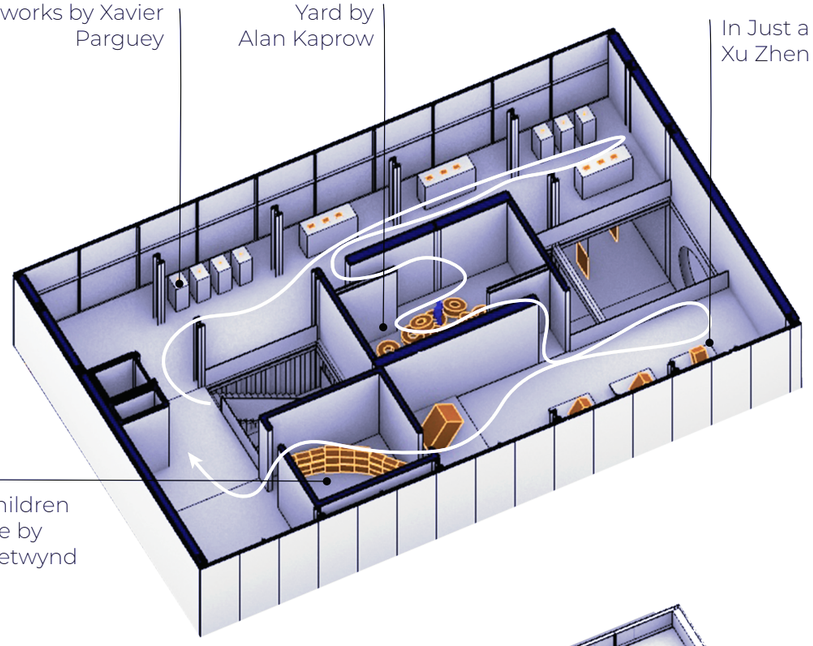


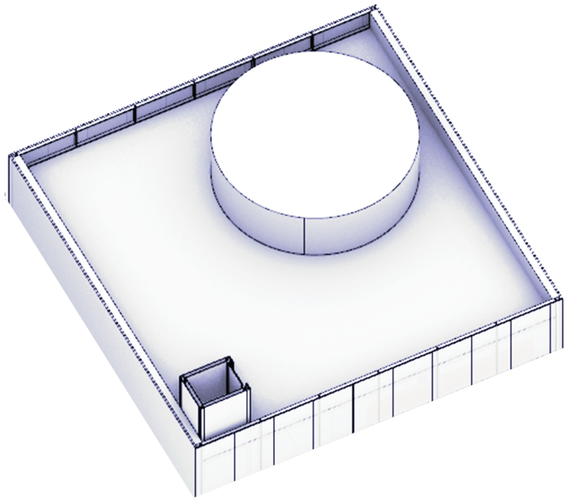
Untitled works by Xavier Parguey

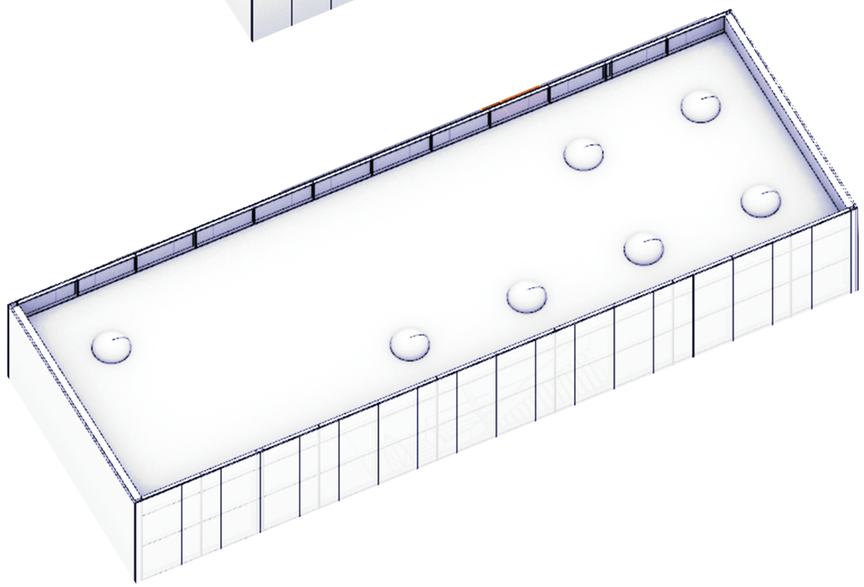
Yard by Alan Kaprow

In Just a Blink of an Eye by Xu Zhen

Hermitos Children pilot episode by Monster Chetwynd

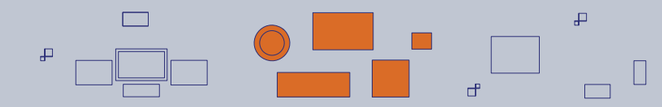






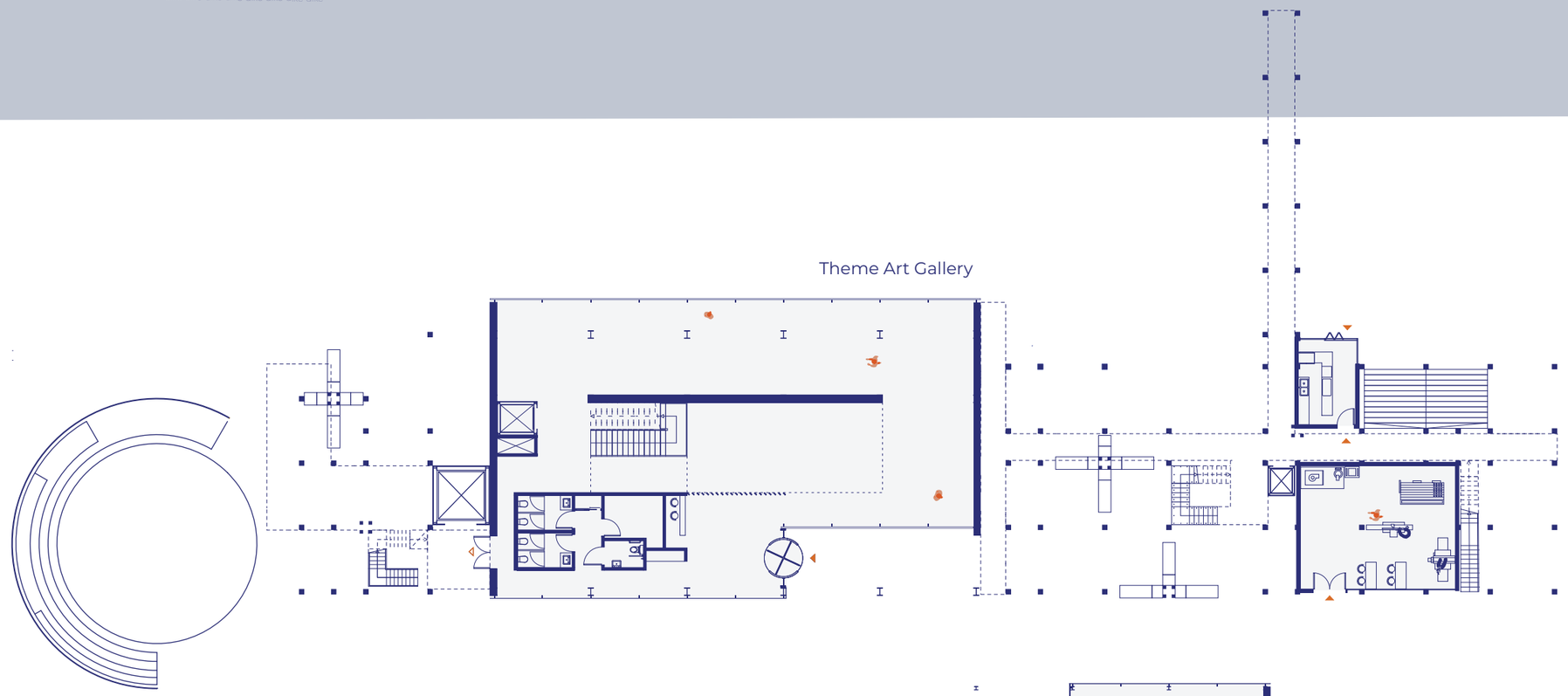
10m
Scale 1:300
Ground Floor Plan

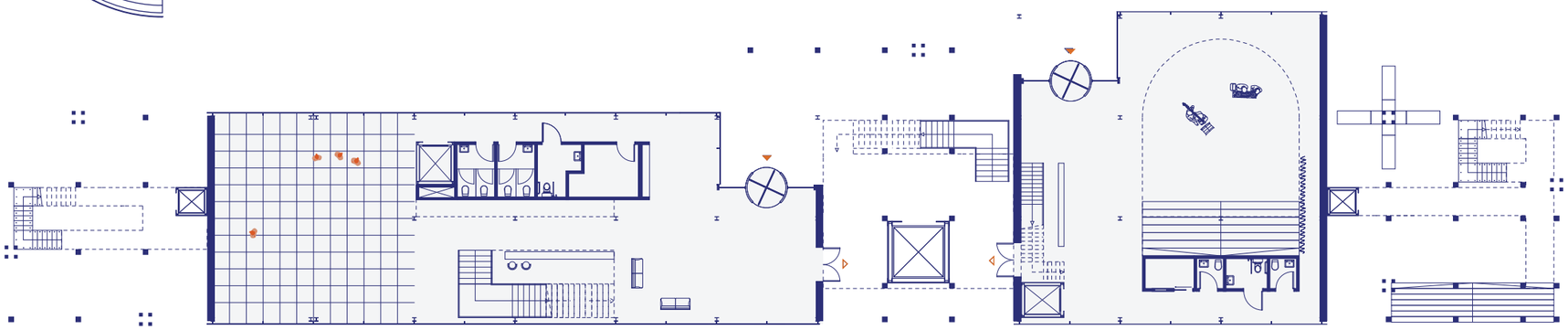
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Theme Art Gallery



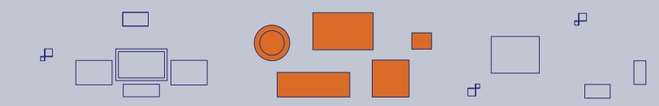


Participatory & Collective Art Gallery

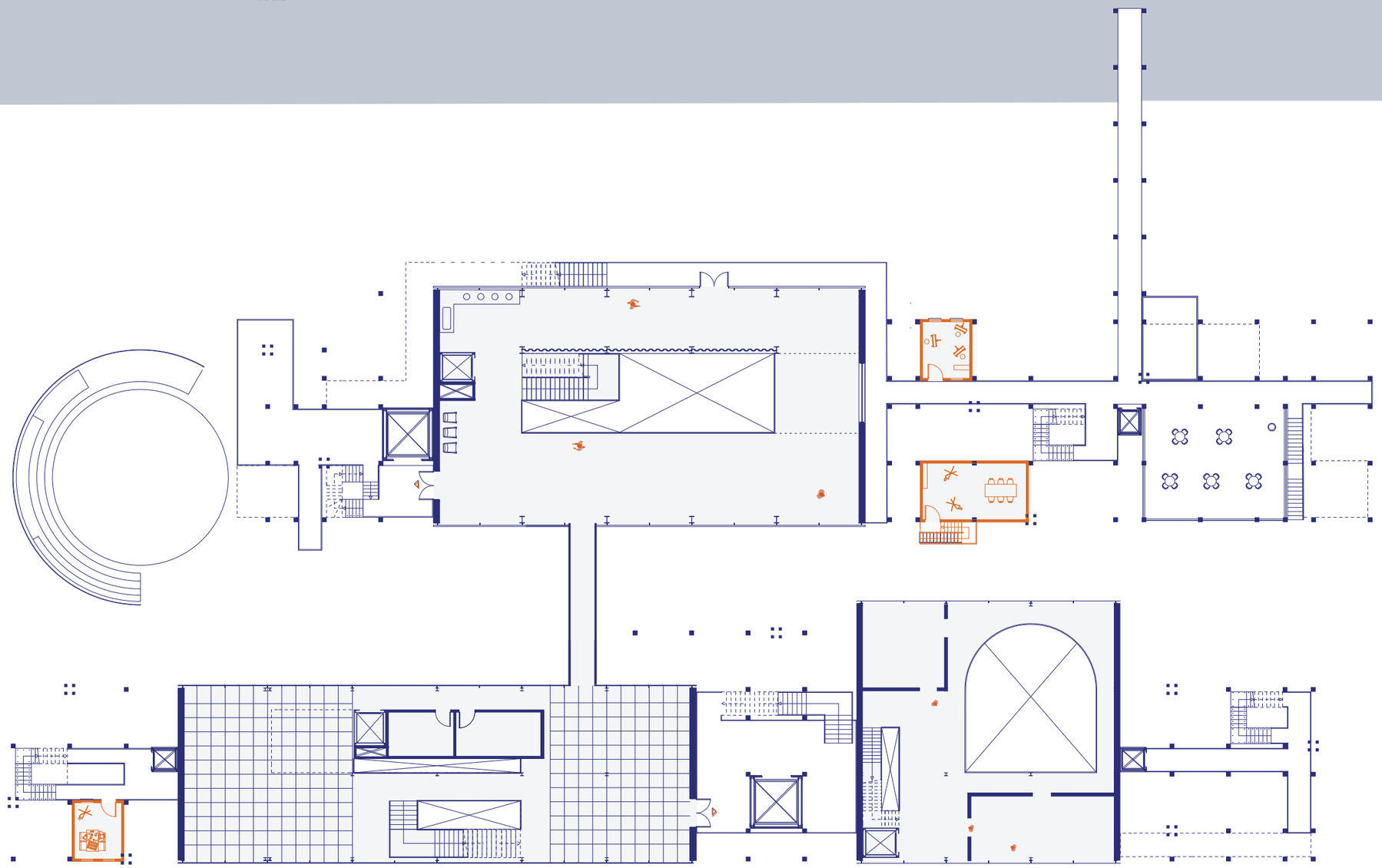
Sound Art Gallery & Hang-out space

10m
Scale 1:300
First Floor Plan

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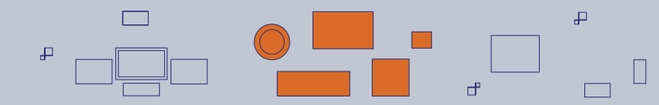


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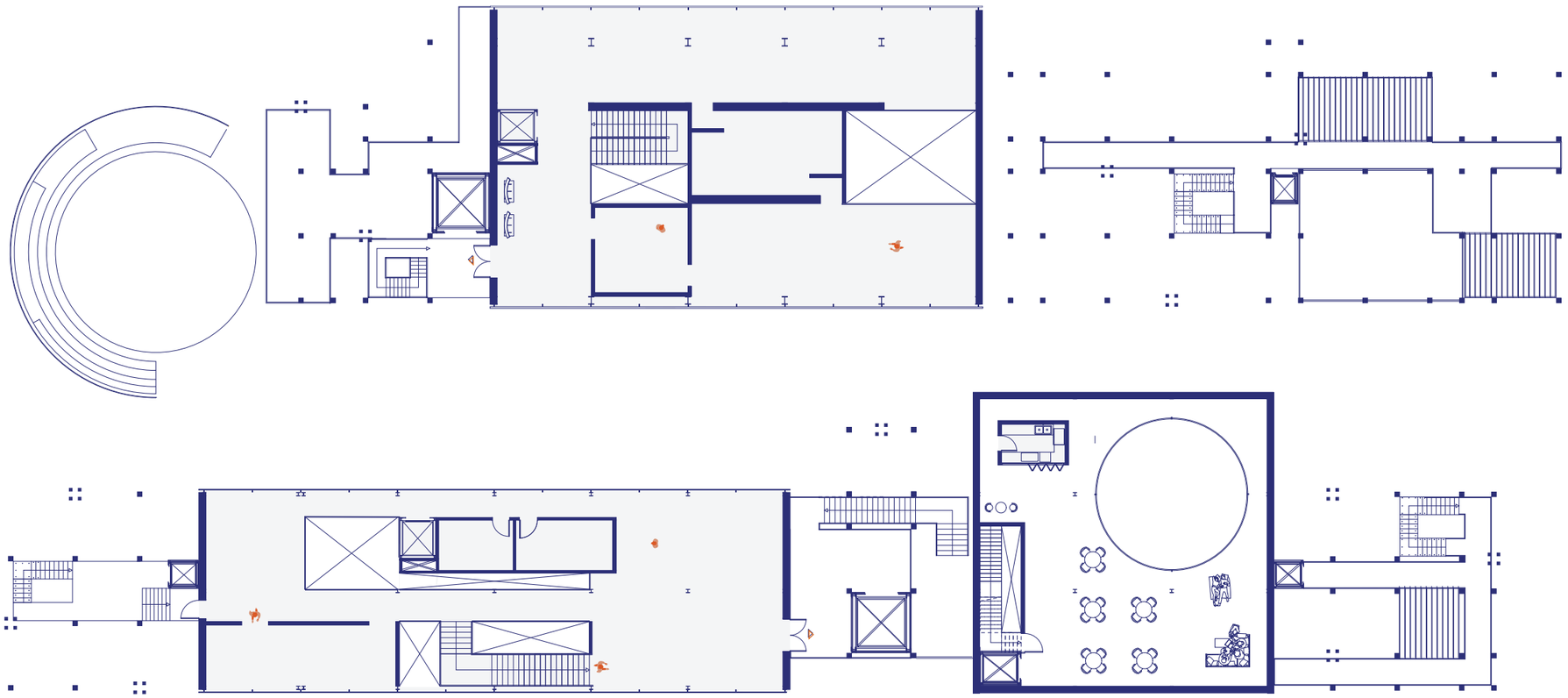


10m
Scale 1:300
Second Floor Plan

maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas

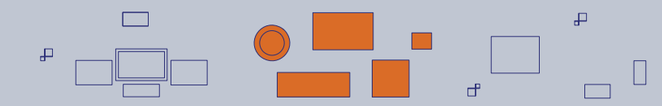


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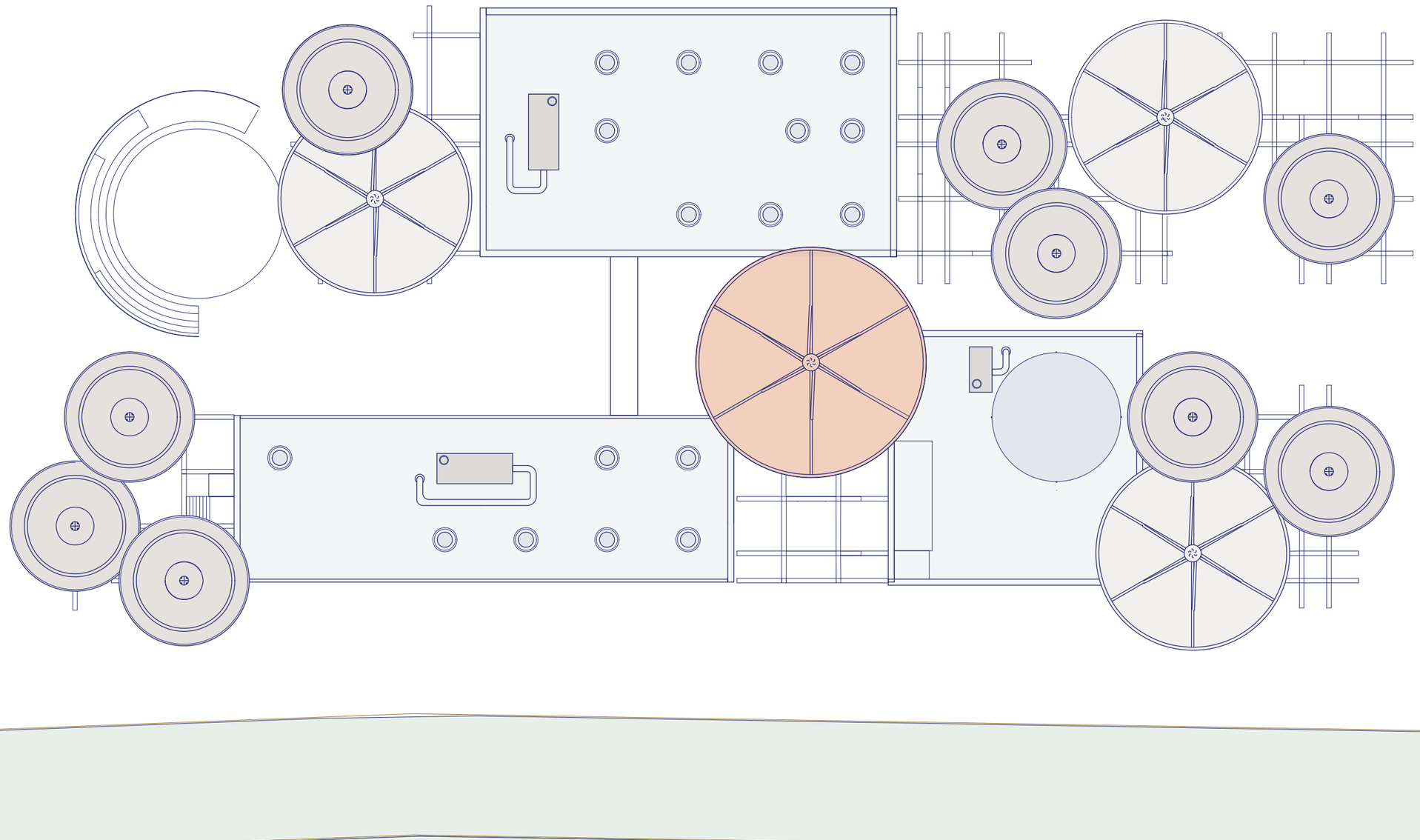


10m
Scale 1:300
Roof Plan

maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas

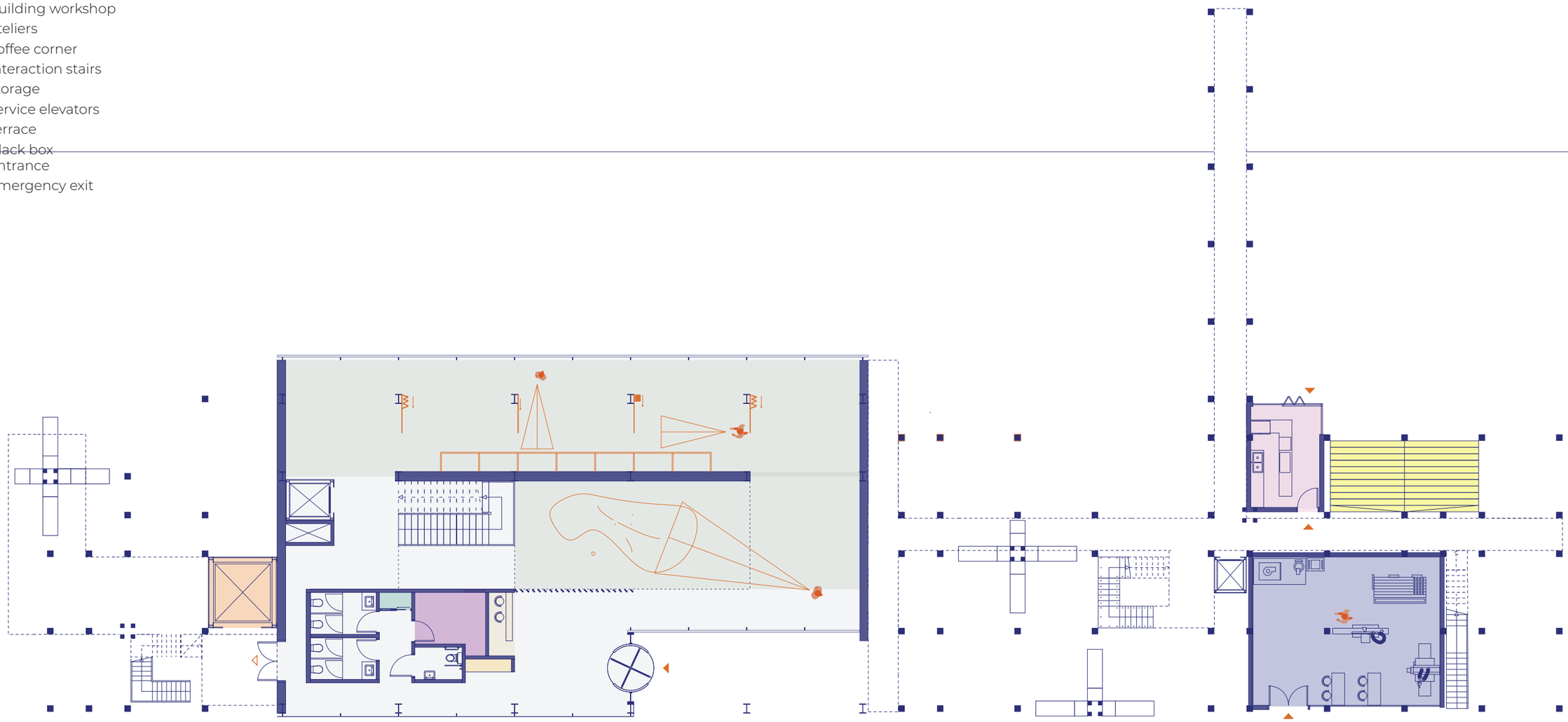


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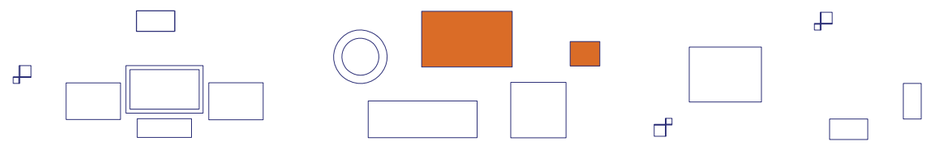
Theme Art Gallery

- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- black box
- entrance
- emergency exit



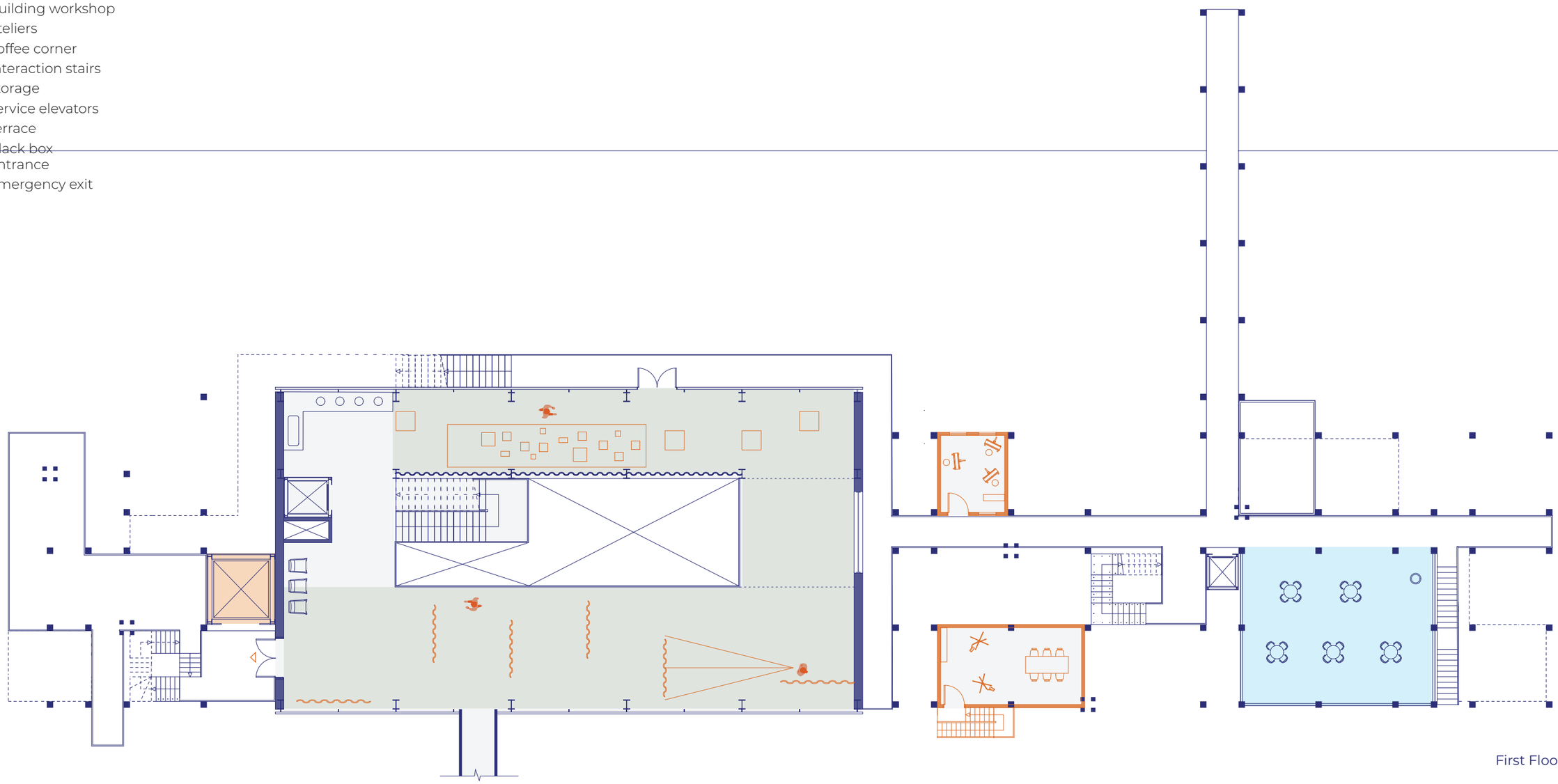
Ground Floor Plan

10m
Scale 1:200



Theme Art Gallery

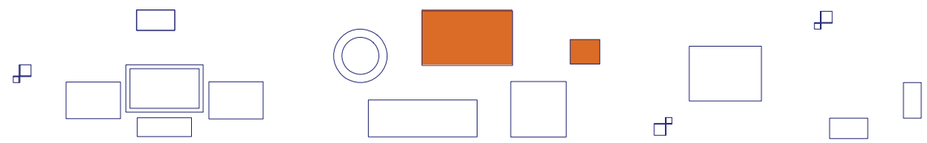
- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- black box
- entrance
- emergency exit



First Floor Plan

10m
Scale 1:200

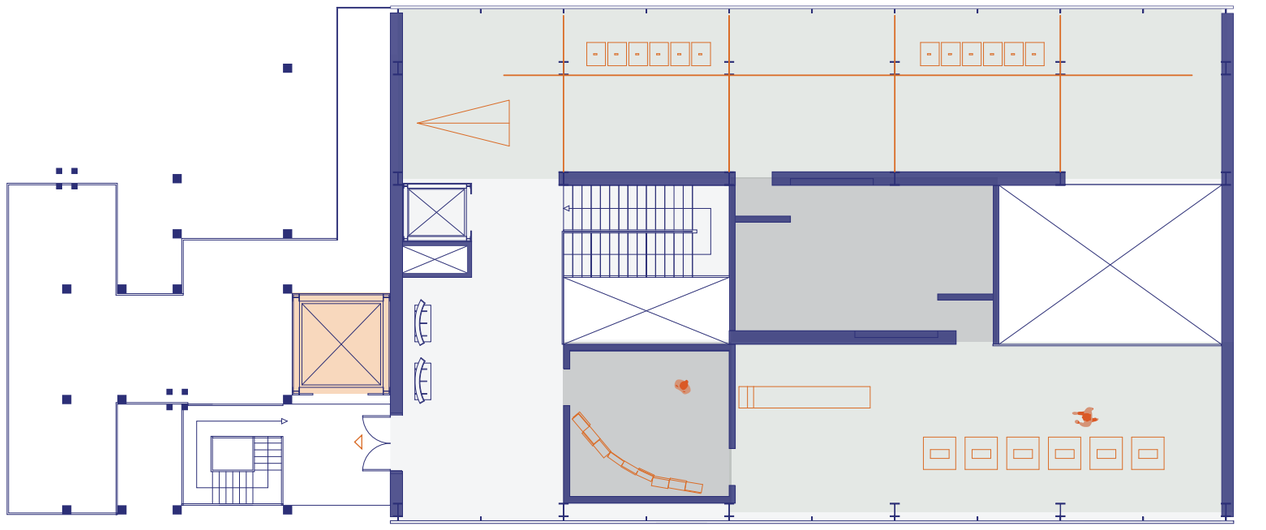
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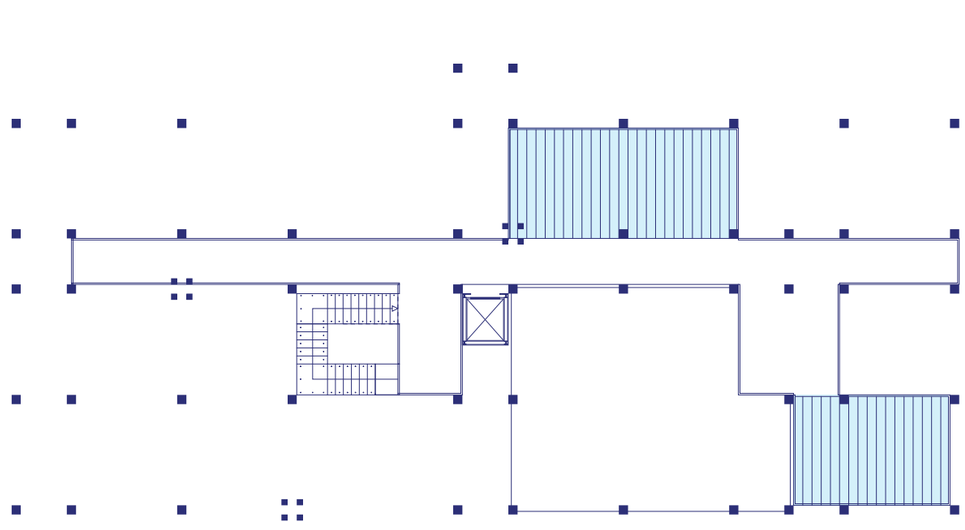


dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike

Theme Art Gallery

- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- black box
- entrance
- emergency exit





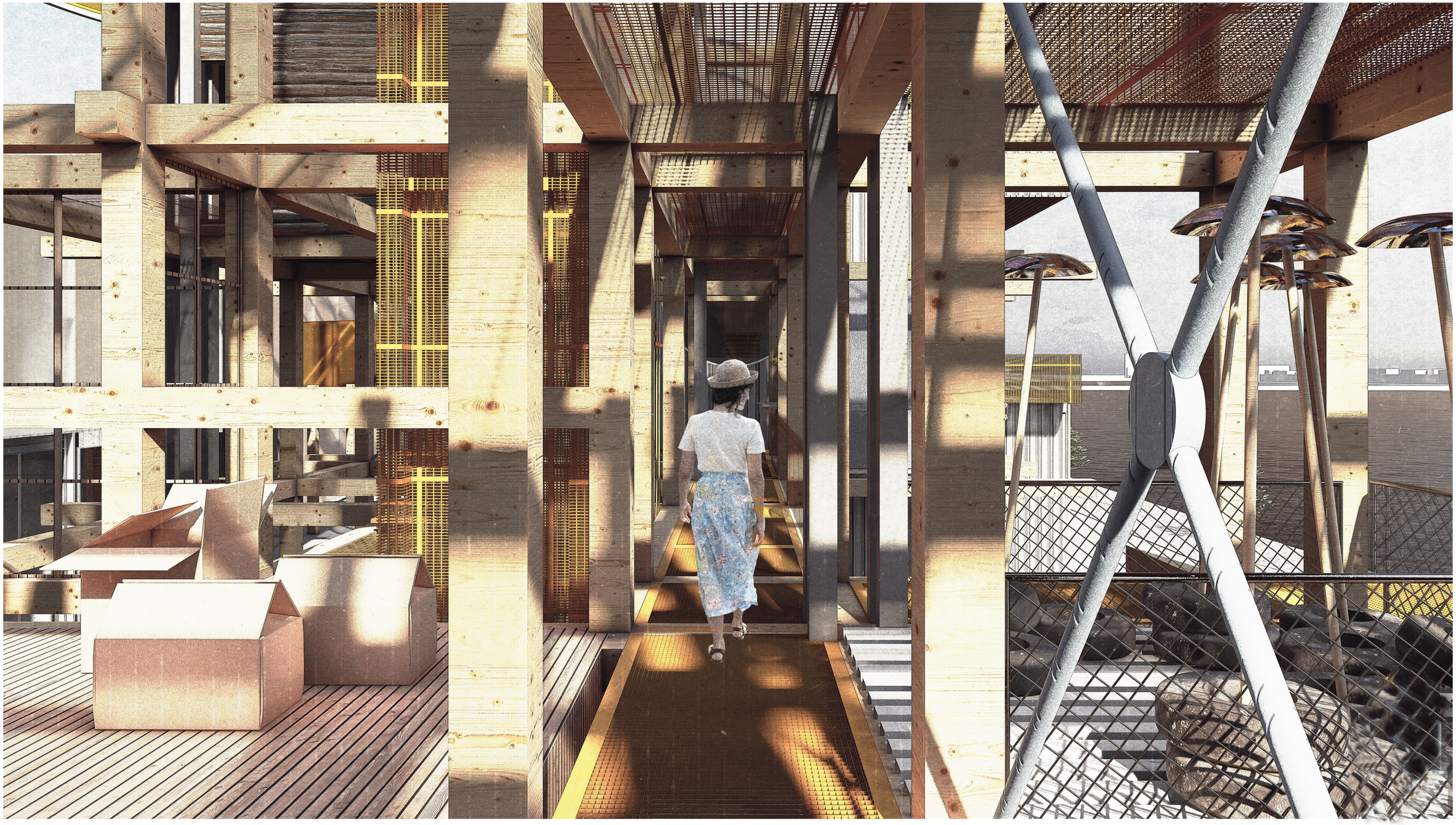
Second Floor Plan

10m
Scale 1:200

maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas
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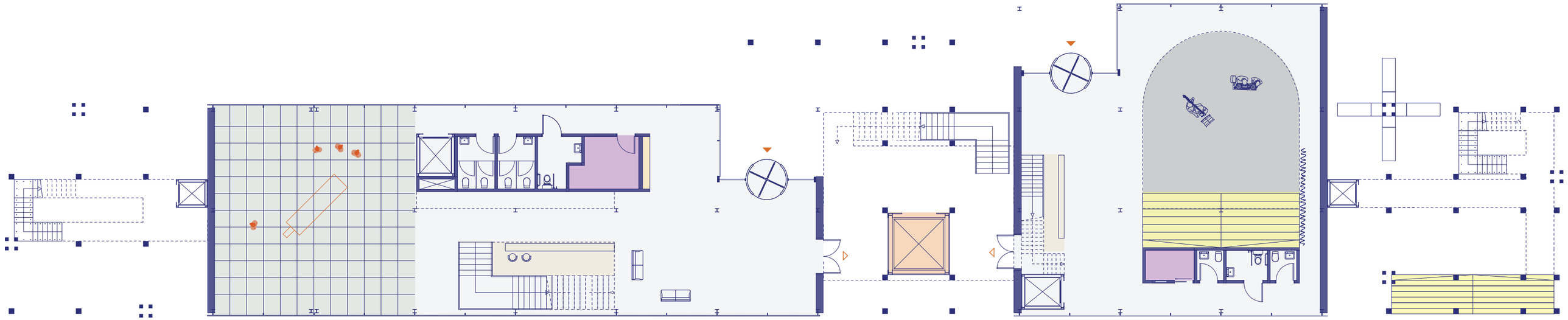


Theme Art Gallery | The Threshold – Interior



Participatory & Collective Art Gallery | Sound Art Gallery & Hang-out Space

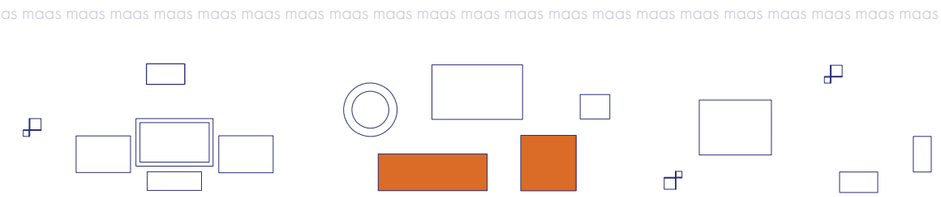
- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- performance stage
- entrance
- emergency exit



Participatory & Collective Art Gallery
Ground Floor Plan

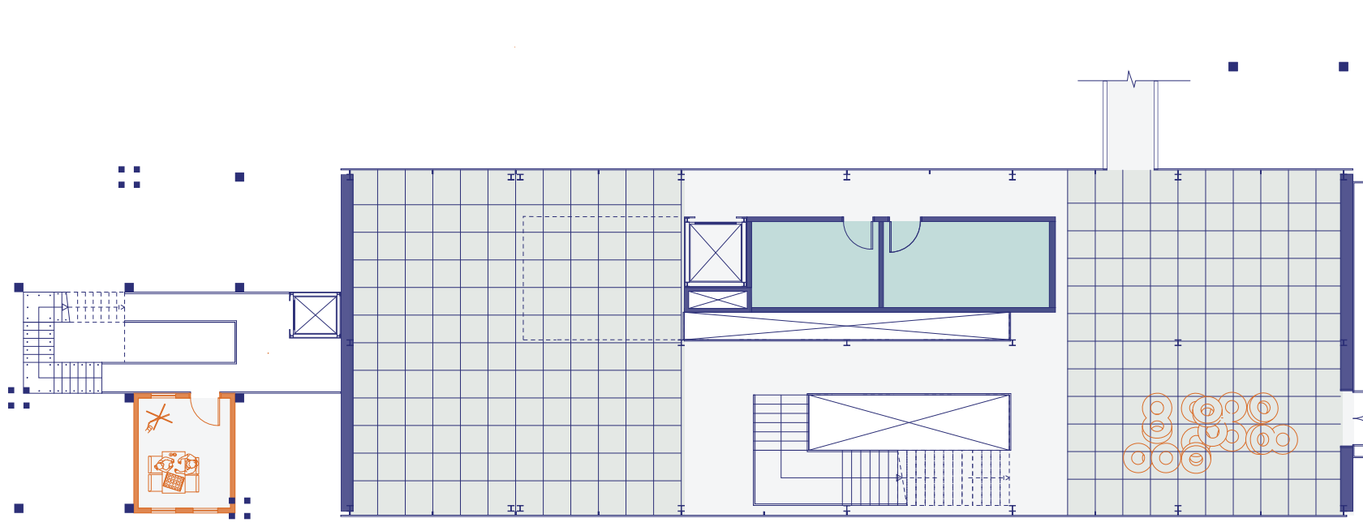
Sound Art Gallery & Hang-out space

10m
Scale 1:200

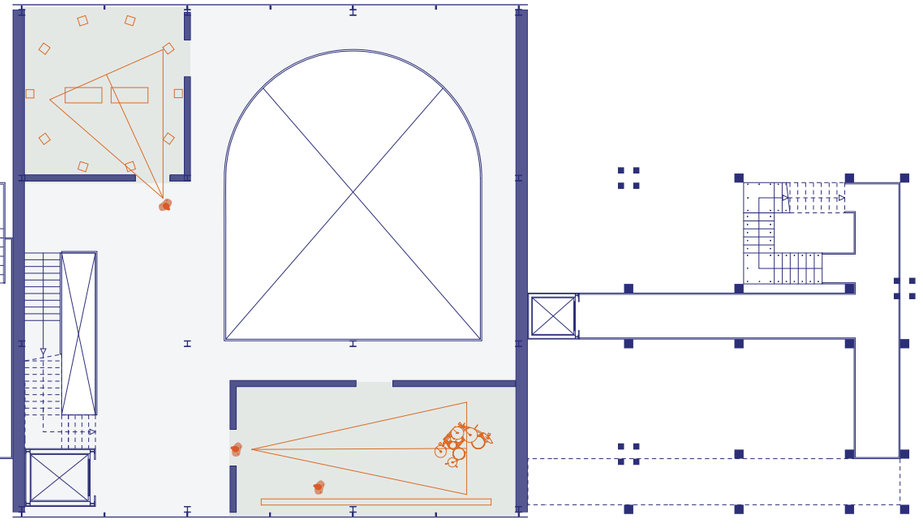


Participatory & Collective Art Gallery | Sound Art Gallery & Hang-out Space

- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- performance stage
- entrance
- emergency exit

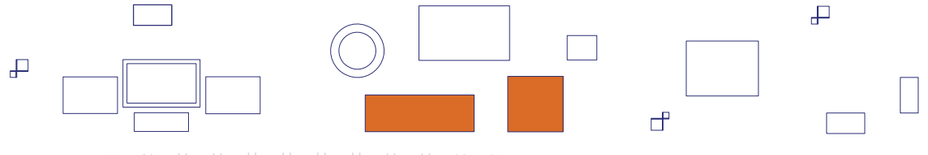


Participatory & Collective Art Gallery
First Floor Plan



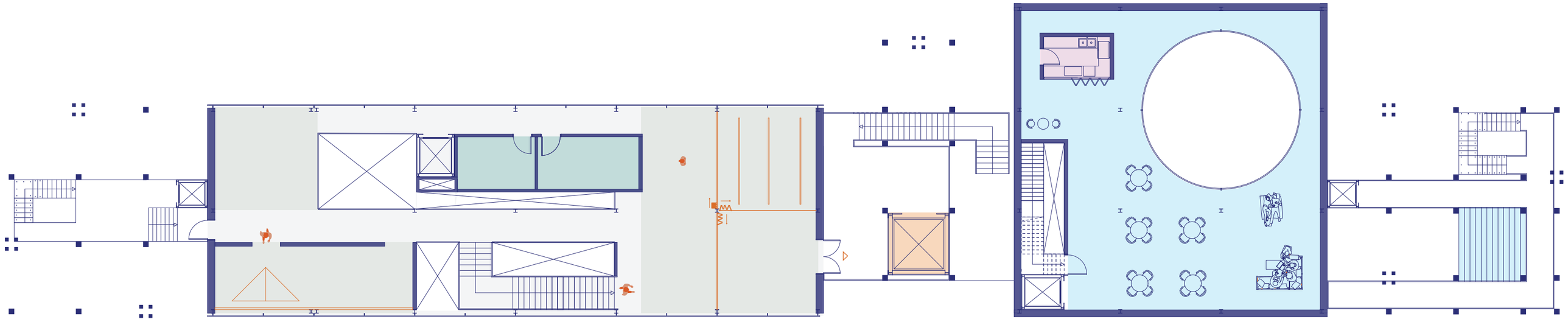
Sound Art Gallery & Hang-out space

10m
Scale 1:200



Participatory & Collective Art Gallery | Sound Art Gallery & Hang-out Space

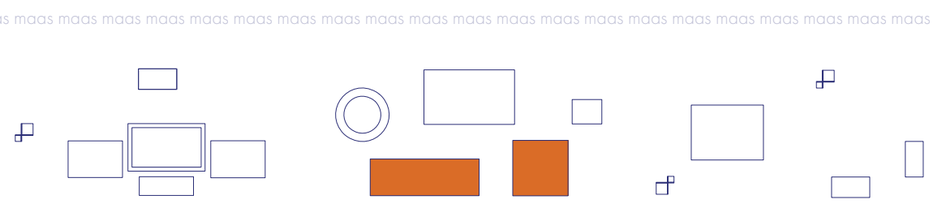
- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- performance stage
- entrance
- emergency exit



Participatory & Collective Art Gallery
Second Floor Plan

Sound Art Gallery & Hang-out space

10m
Scale 1:200





Participatory and Collective Art Gallery – Exterior

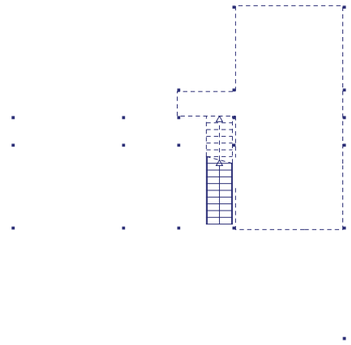


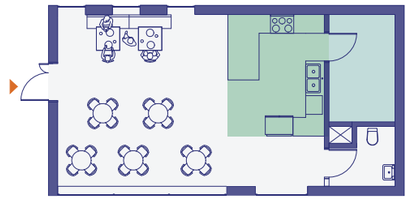
Music Performances and Sound Art Gallery – Exterior

Education Hub | Cafe | Building Consultation Office

- lobby
- info point
- lockers
- mechanical room
- lecture room
- study space
- interaction stairs
- storage
- service elevators
- terrace
- library
- conference hall
- kitchen

- entrance
- emergency exit

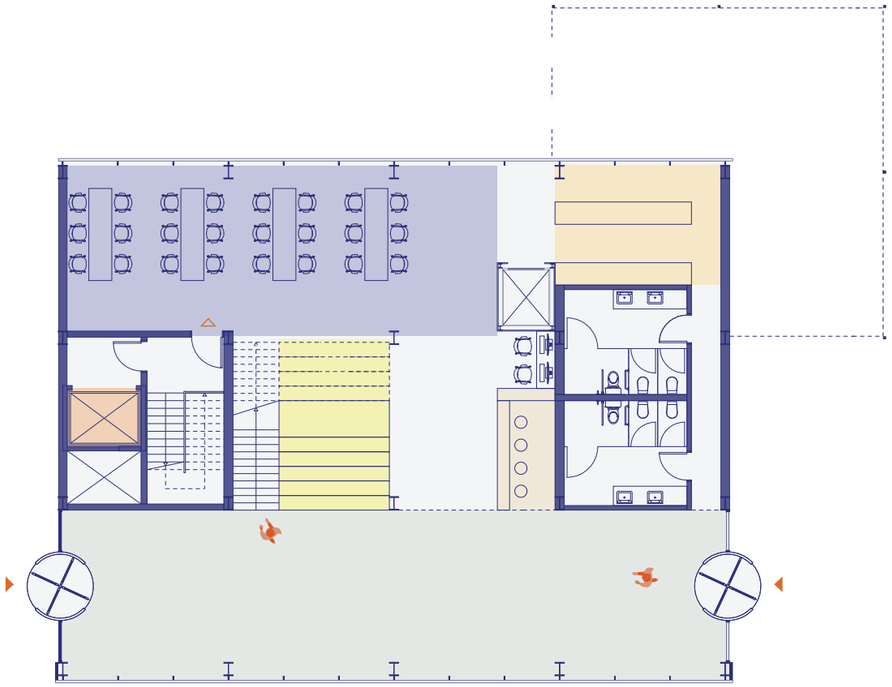




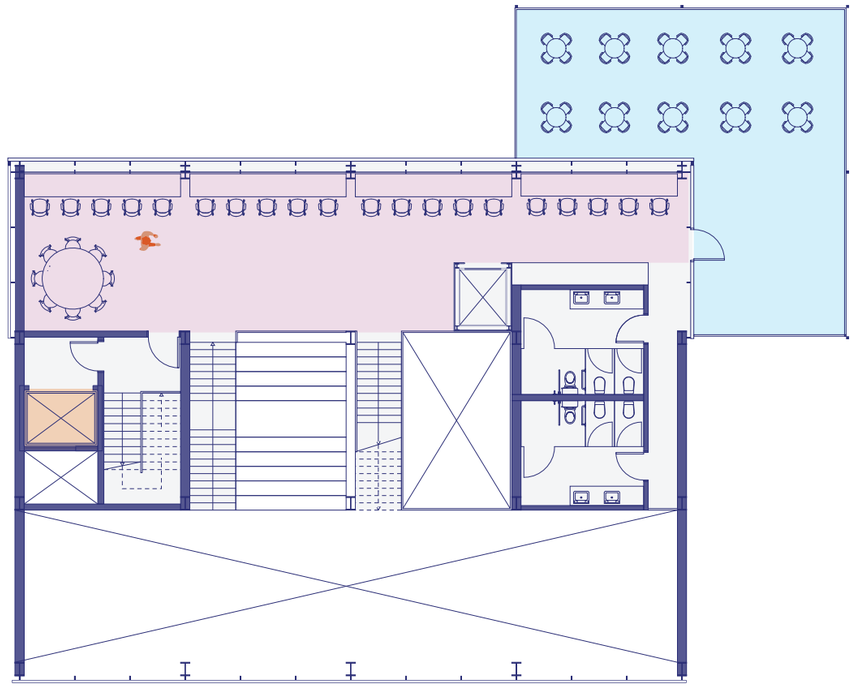
Cafe



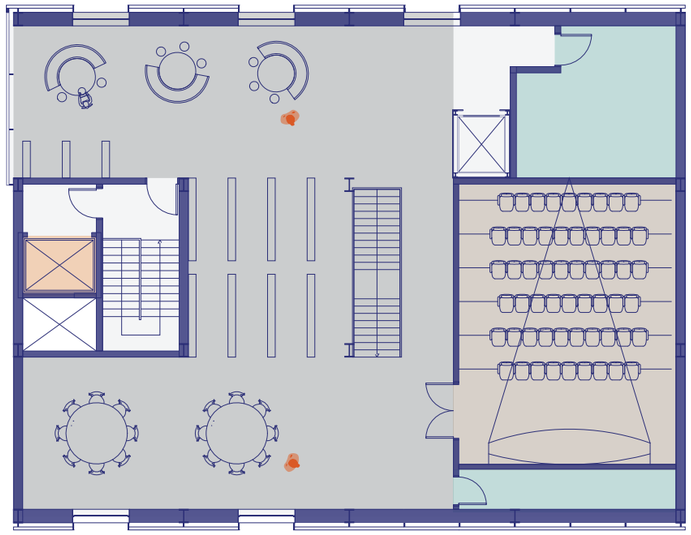
Building Consultation Office



Ground Floor Plan



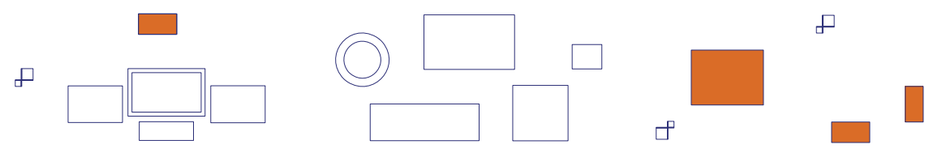
First Floor Plan



Second Floor Plan

10m
Scale 1:200

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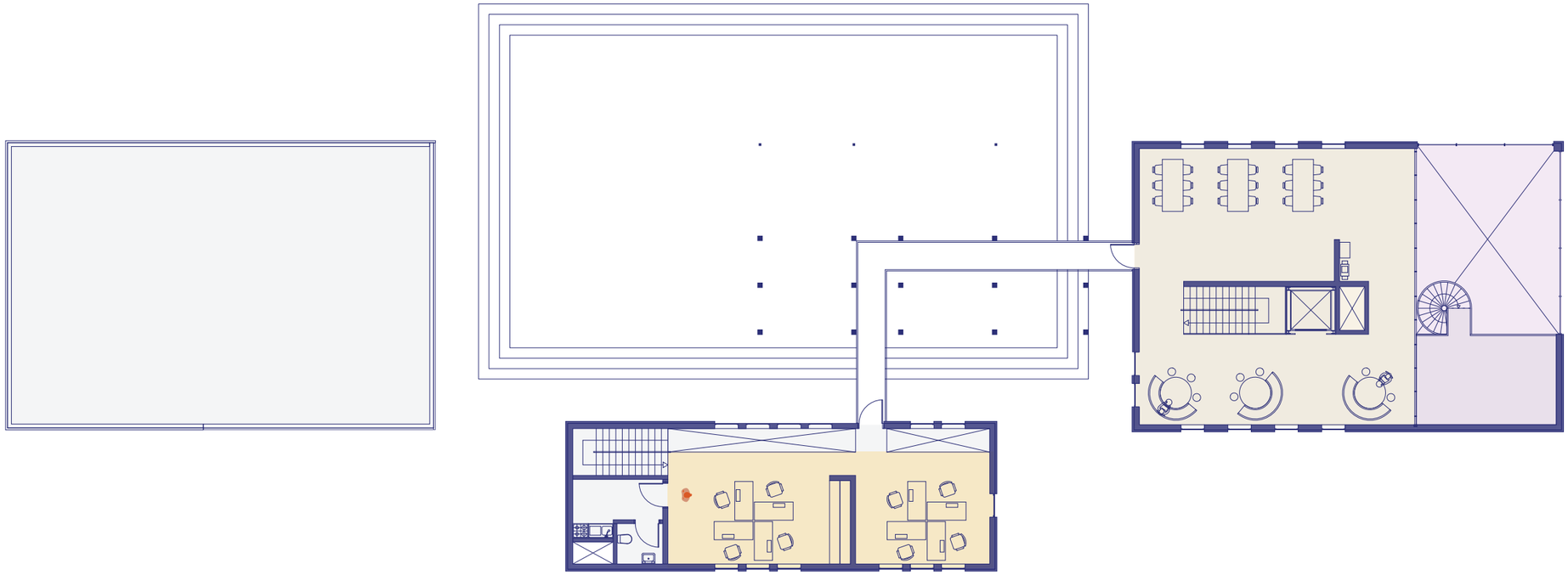


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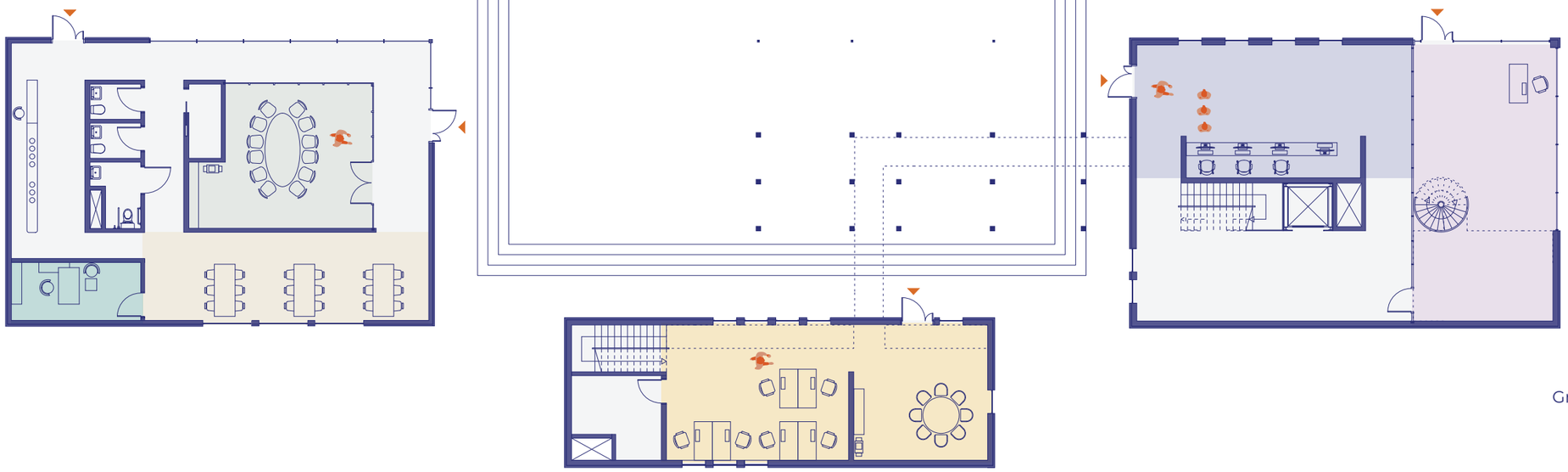


Mediating Cluster

- meeting room
- co-work office
- staff office
- museum store
- ticketing & reservation
- head office
- entrance
- emergency exit



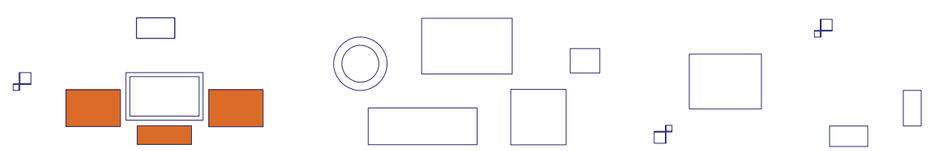
First Floor Plan



Ground Floor Plan

10m
Scale 1:200

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Cafe – Interior

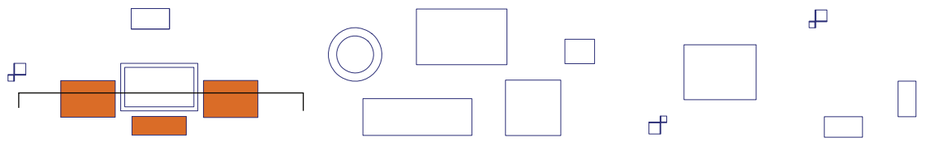


Collaborative Office – Interior



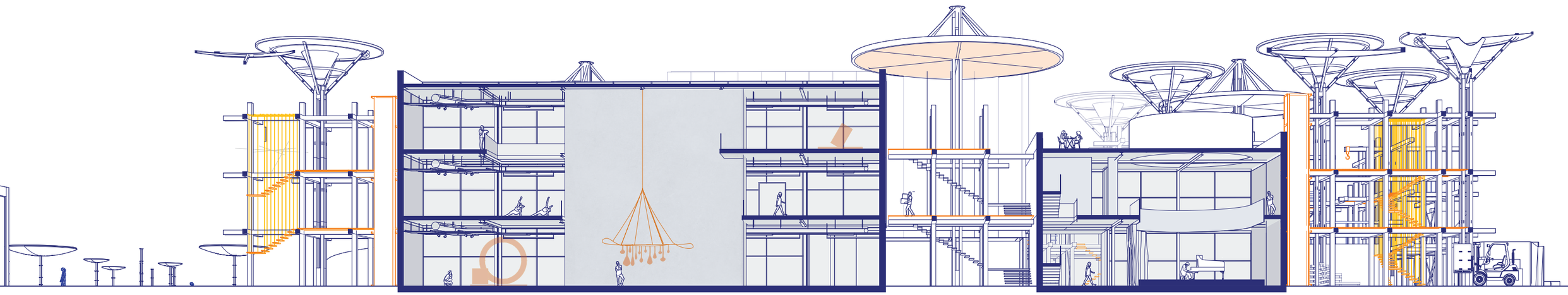


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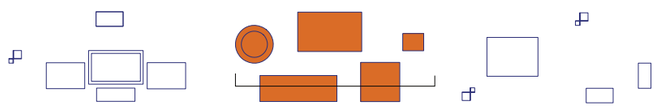


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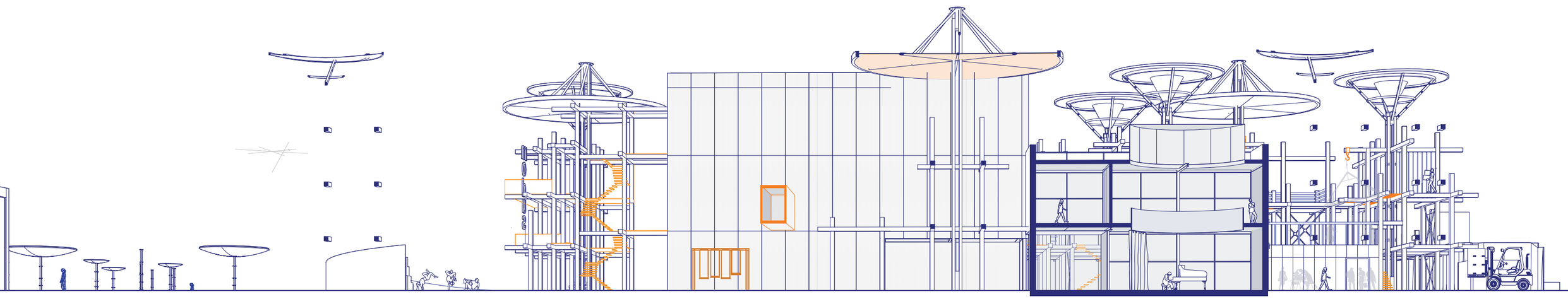


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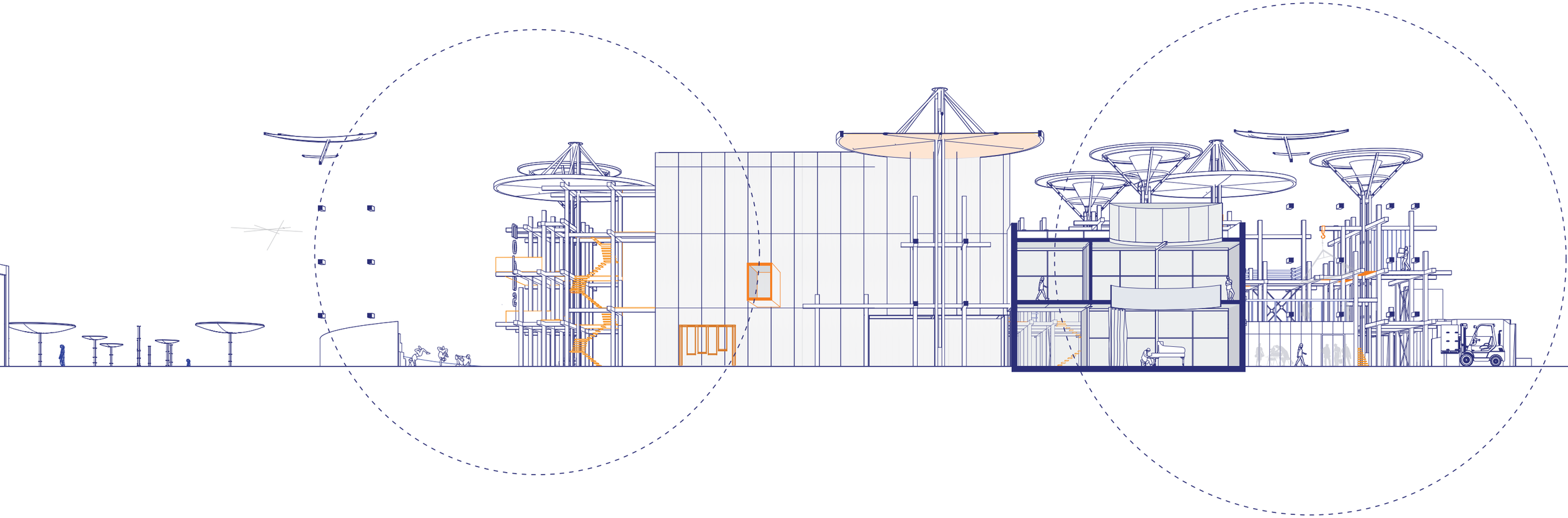
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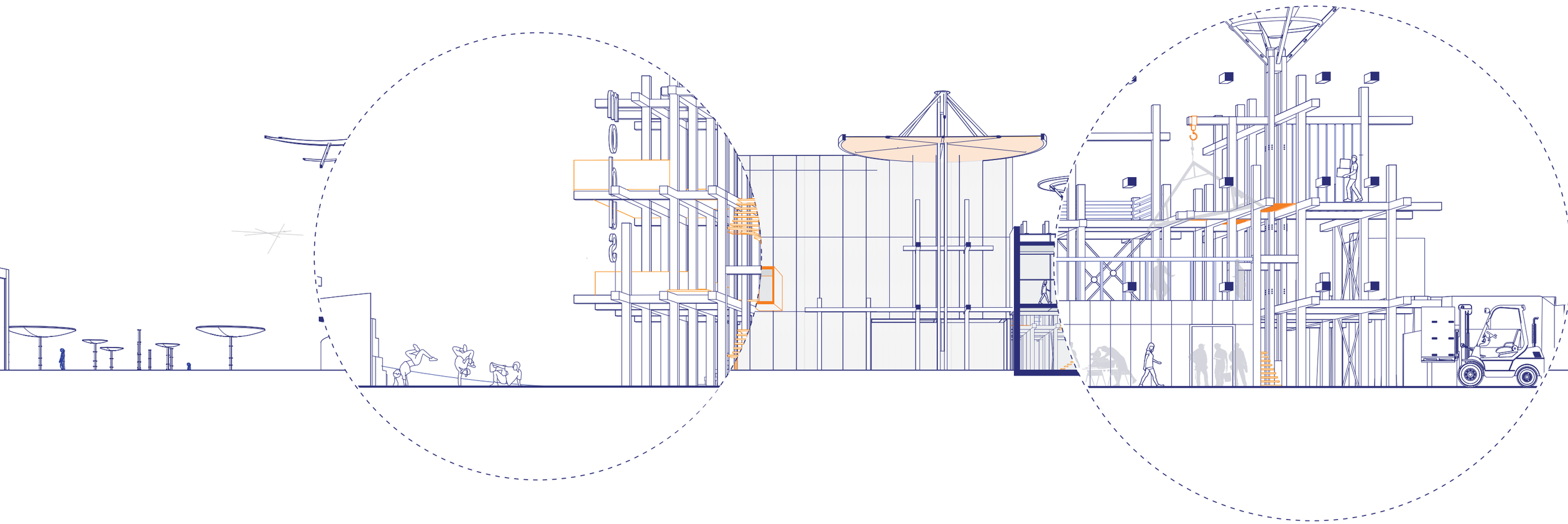
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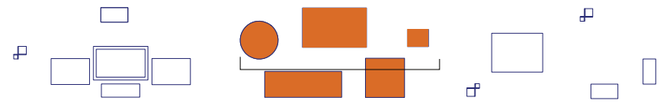
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Scale 1:200



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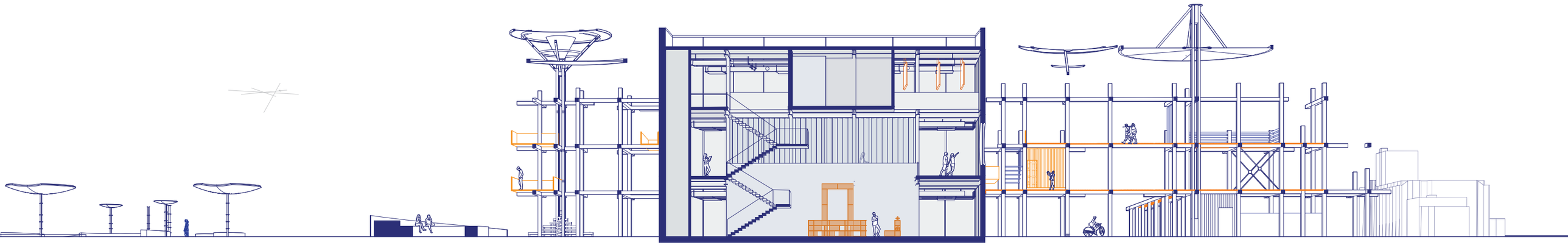


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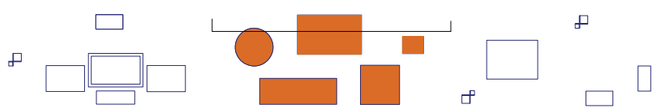


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10m
Scale 1:200



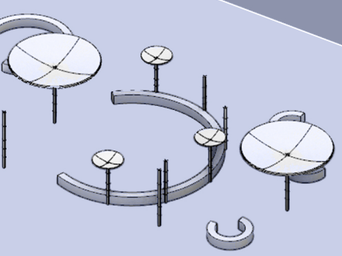
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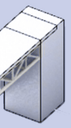


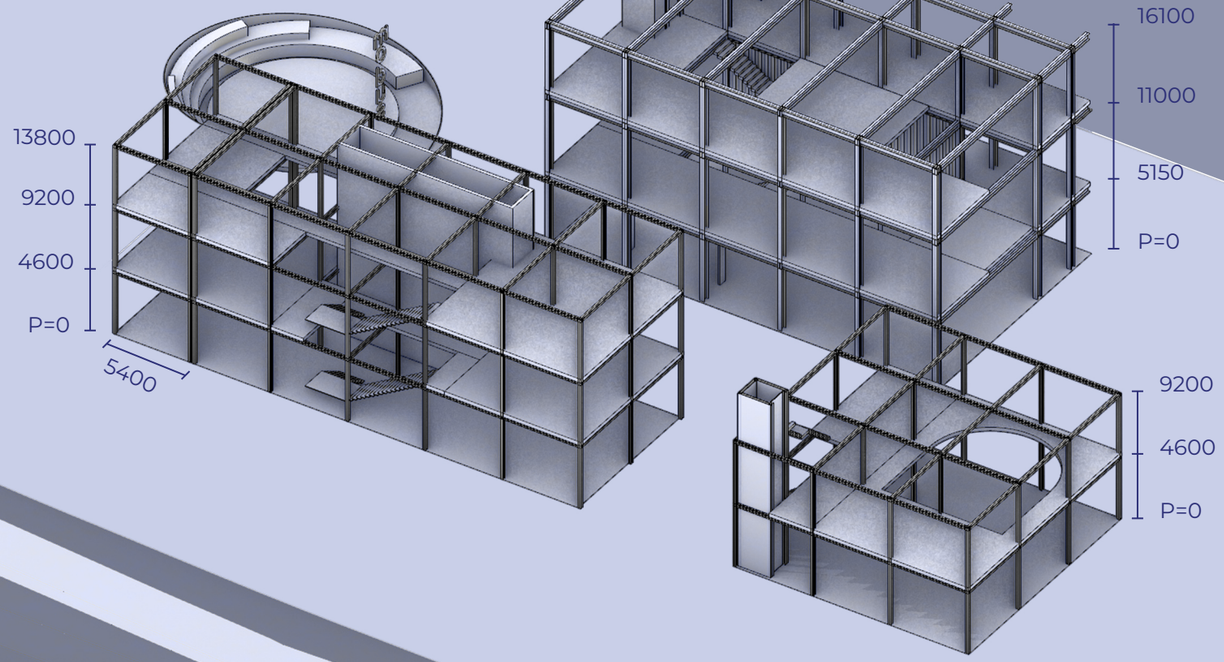
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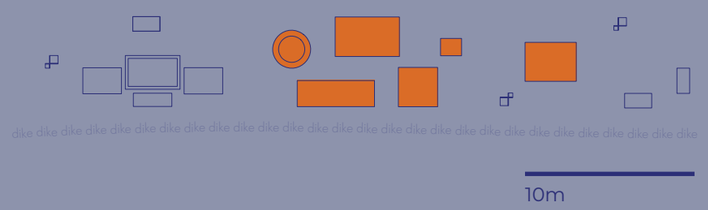
10m
Scale 1:200

Building Structure

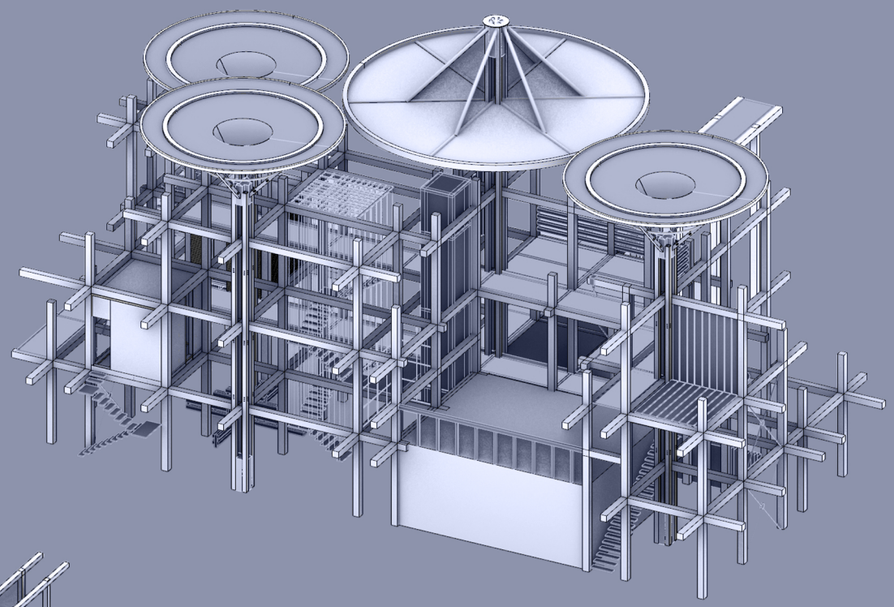




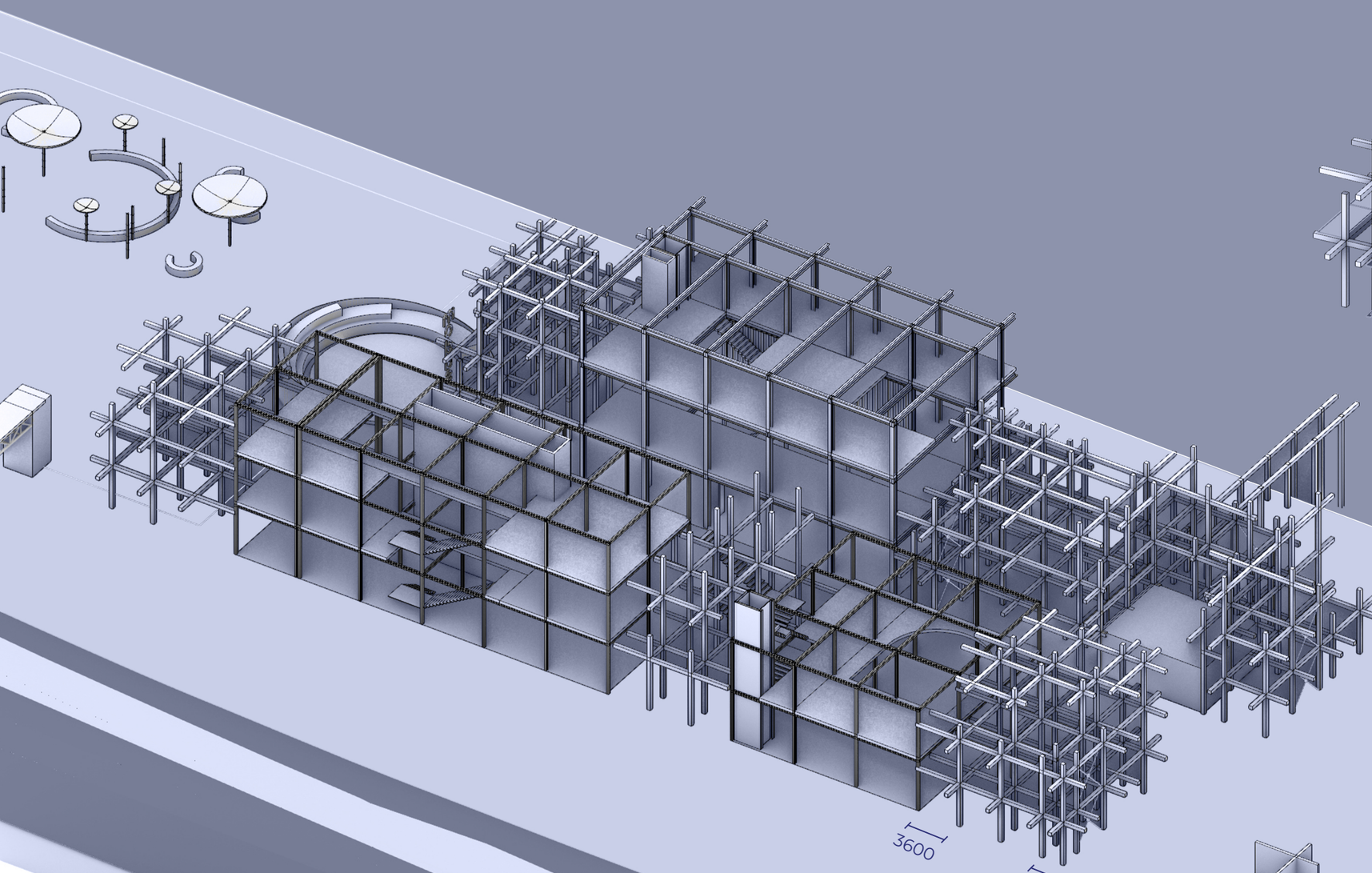


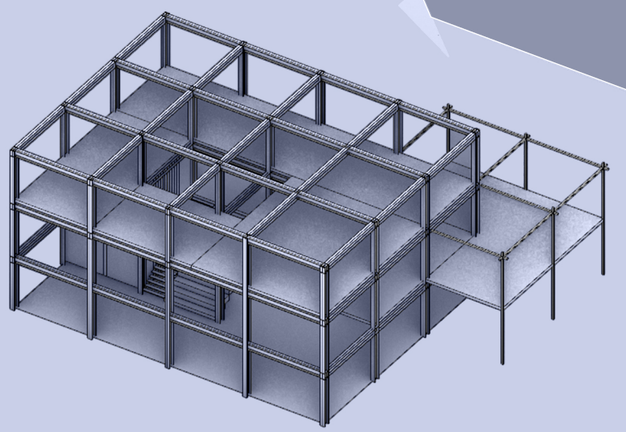

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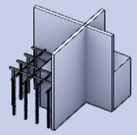
Building Structure with Prosthesis



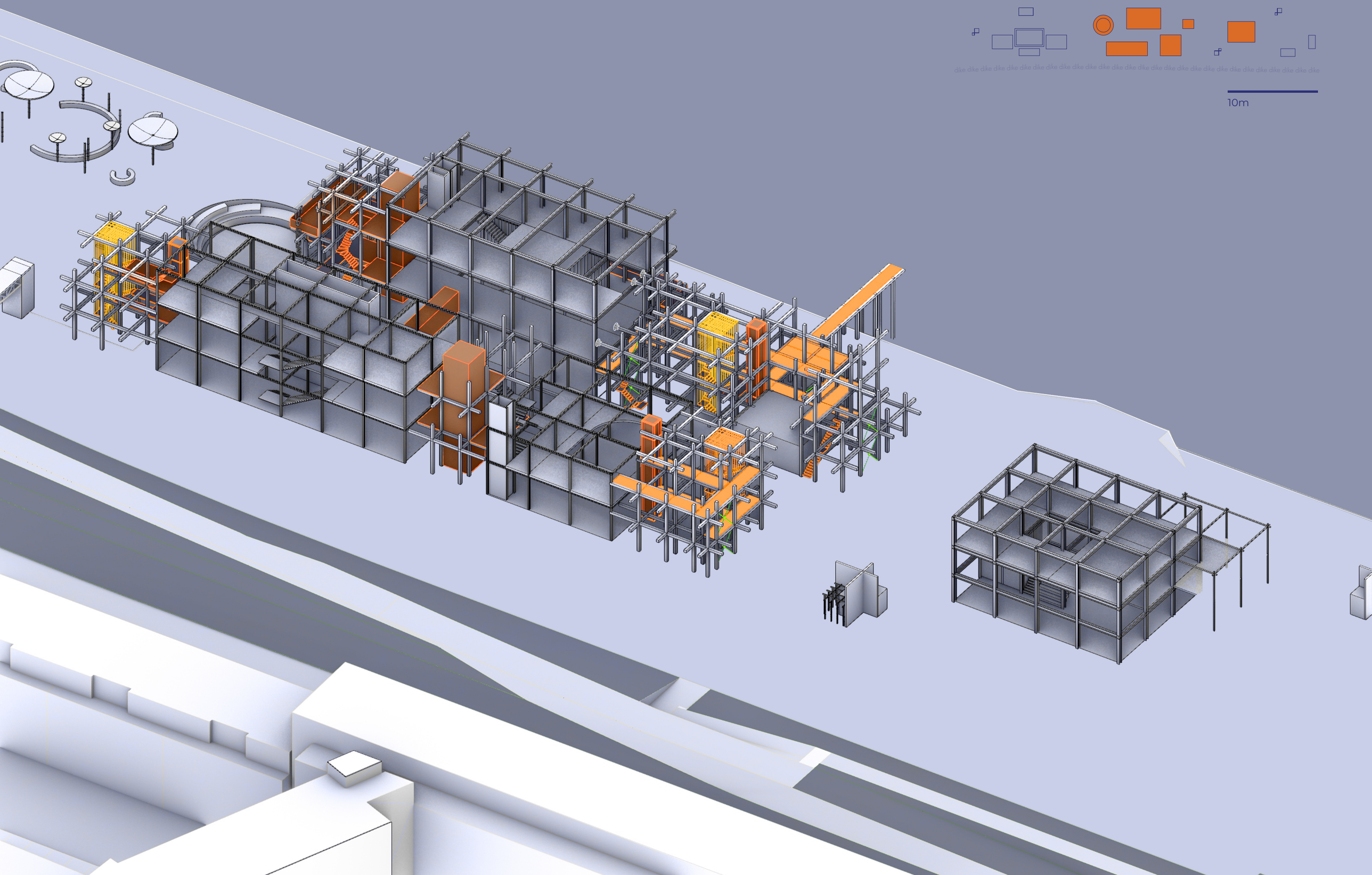
Zoom in - partial prosthesis







Circulation Indicators

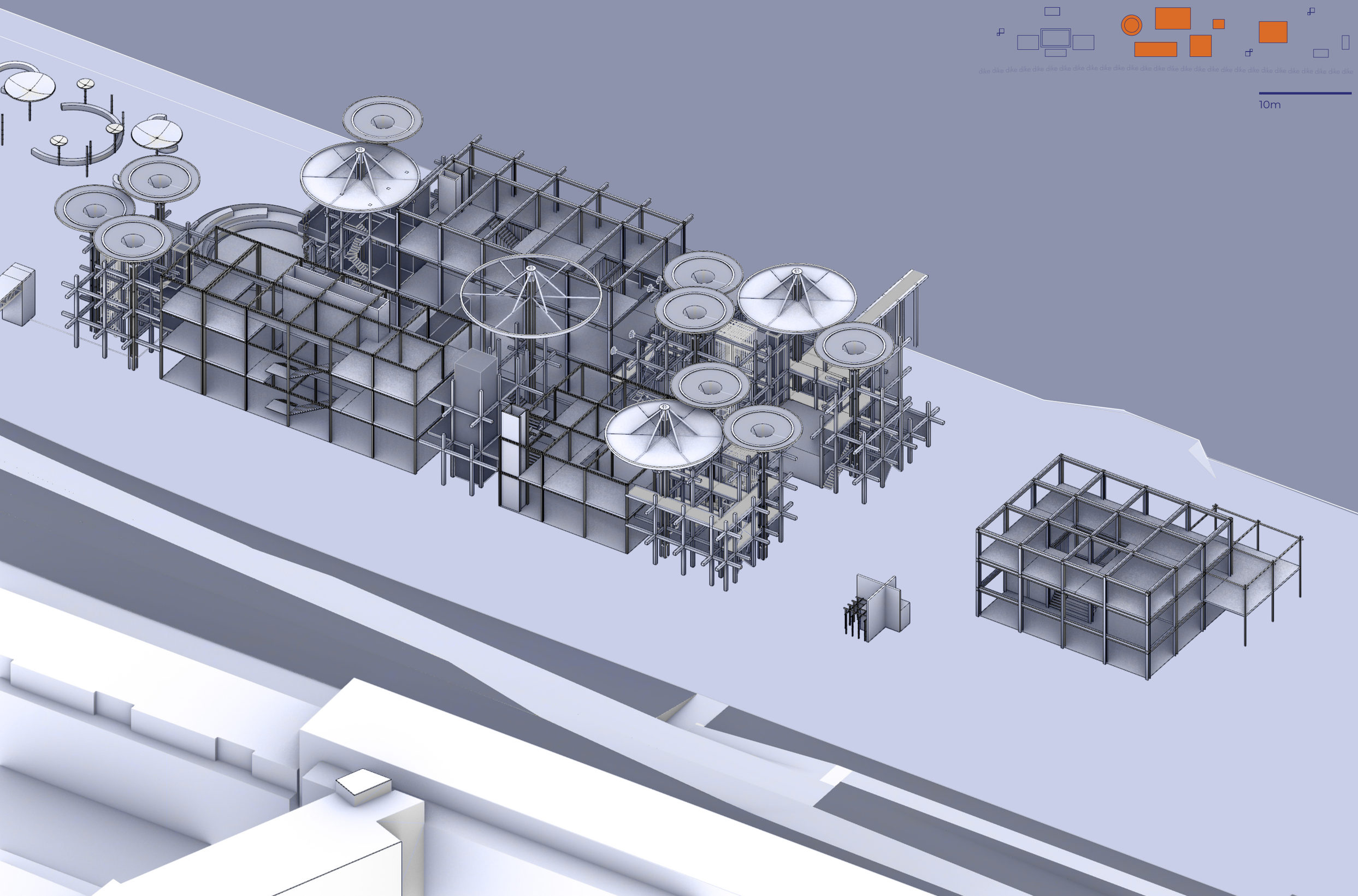


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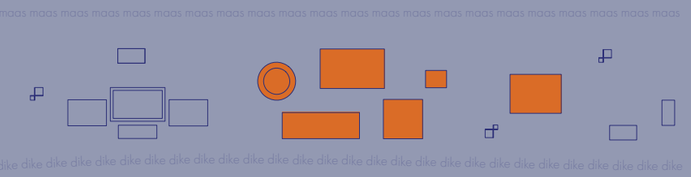
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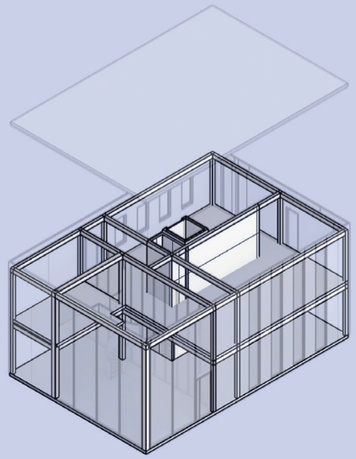
Building Structure - Prosthesis, Canopies and other functions



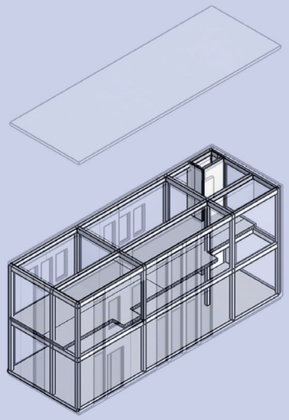
maas maas maas

General View

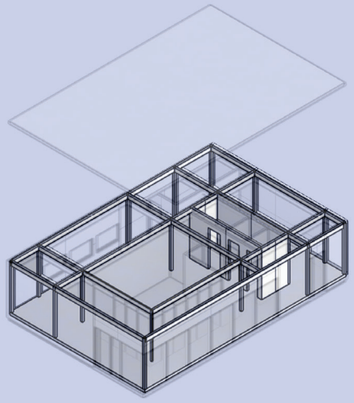

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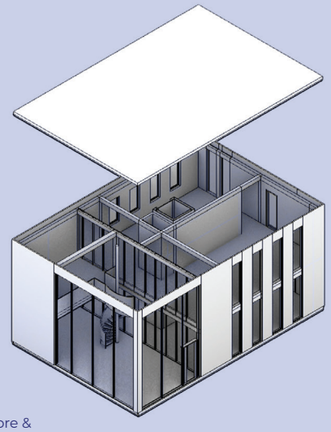
Museum Store & Ticketing and Reservation, Collaborative Office



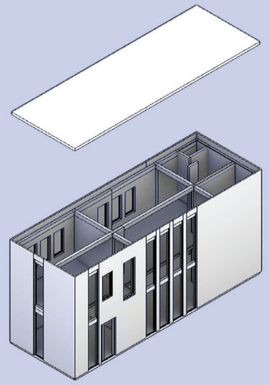
Staff Office



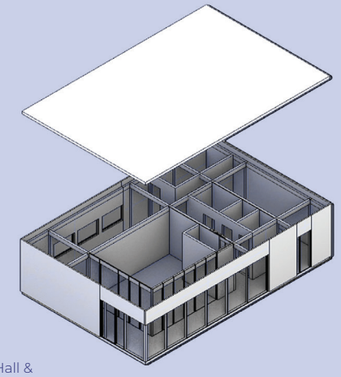
Meeting Hall & Mediating Office



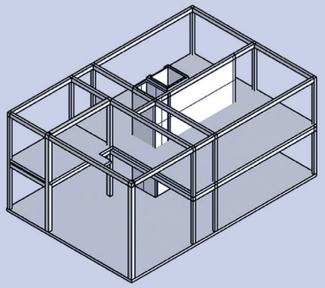
Museum Store & Ticketing & Reservation Collaborative Office

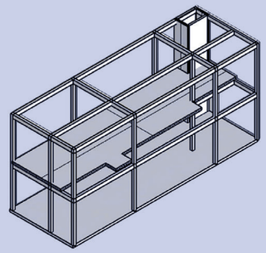


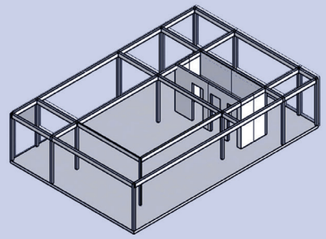
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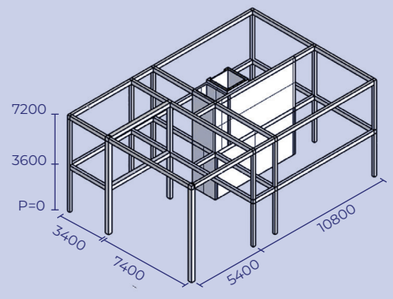


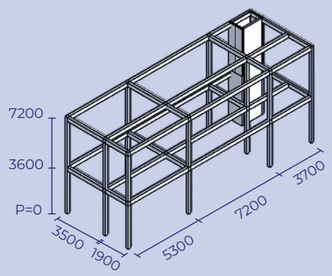
Meeting Hall & Mediating Office

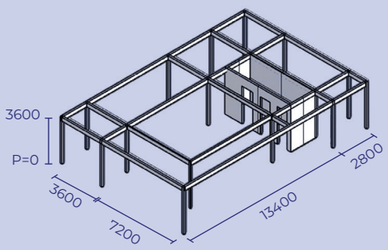




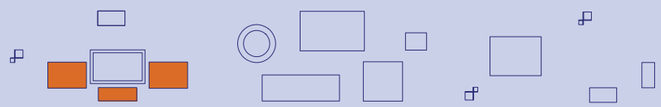






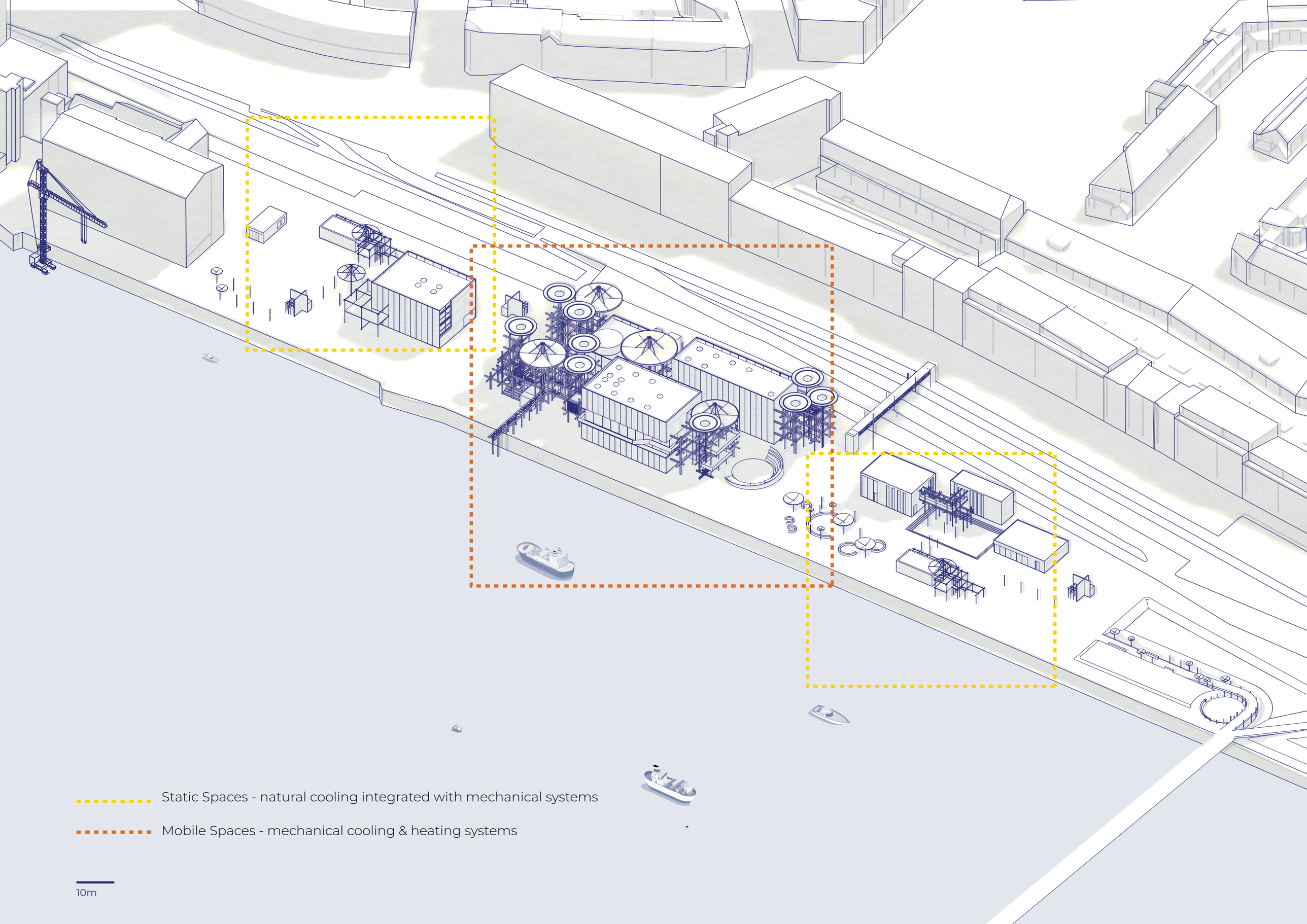


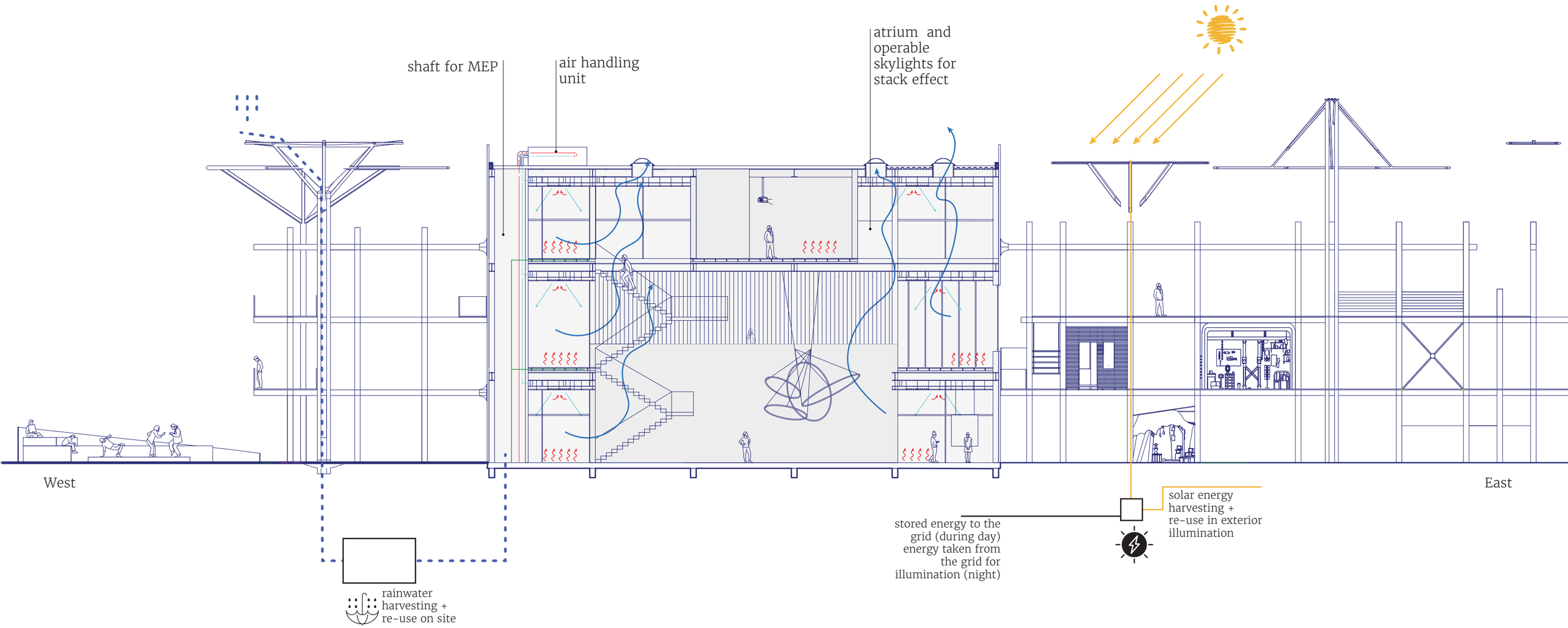
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10m


Static Spaces - natural cooling integrated with mechanical systems
Mobile Spaces - mechanical cooling & heating systems
10m



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10m
Scale 1:200

Orange Canopy

Thin film perovskite orange PV + rainwater collecting tubes

rainwater

sloped glass

used as greywater

water storage

DC to AC current

Collected energy

grid

Orange Canopy & Type I Section

Type I

thin film PV cells + rainwater collecting tubes

water storage

used as greywater

grid

DC to AC current

Collected energy

Timber connection between canopy structure

structural glulam members + weathering varnish

anodized steel connection

Type II

thin film PV cells + rainwater collecting tubes

foot of the canopy as public seating in suitable places

used as greywater

water storage

DC to AC current

Collected energy

grid

Type II Section

Orange Canopy, Type I, Type II

Top Perspective

Orange Canopy, Type I, Type II Experience

Bottom Perspective

MEP shaft

supply

extract

air handling unit

underfloor cooling mechanism under staircase to cool the atrium

raised access floors

atrium and operable skylights for stack effect

radiant panel cooling system

active chilled beam system

June Solstice
60°

West

East

Summer: stack effect with the atrium
radiant panel cooling system on exposed ceiling
supported with active chilled beam system
operable skylight to exhaust warm air

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10m
Scale 1:200

MEP shaft

supply

extract

air handling unit

raised access floors

underfloor heating system

atrium and operable skylights for stack effect

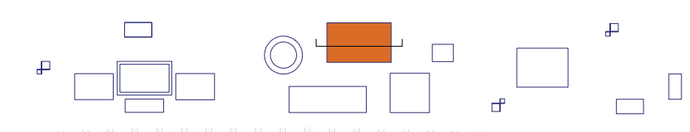
active chilled beam system

December Solstice 15°

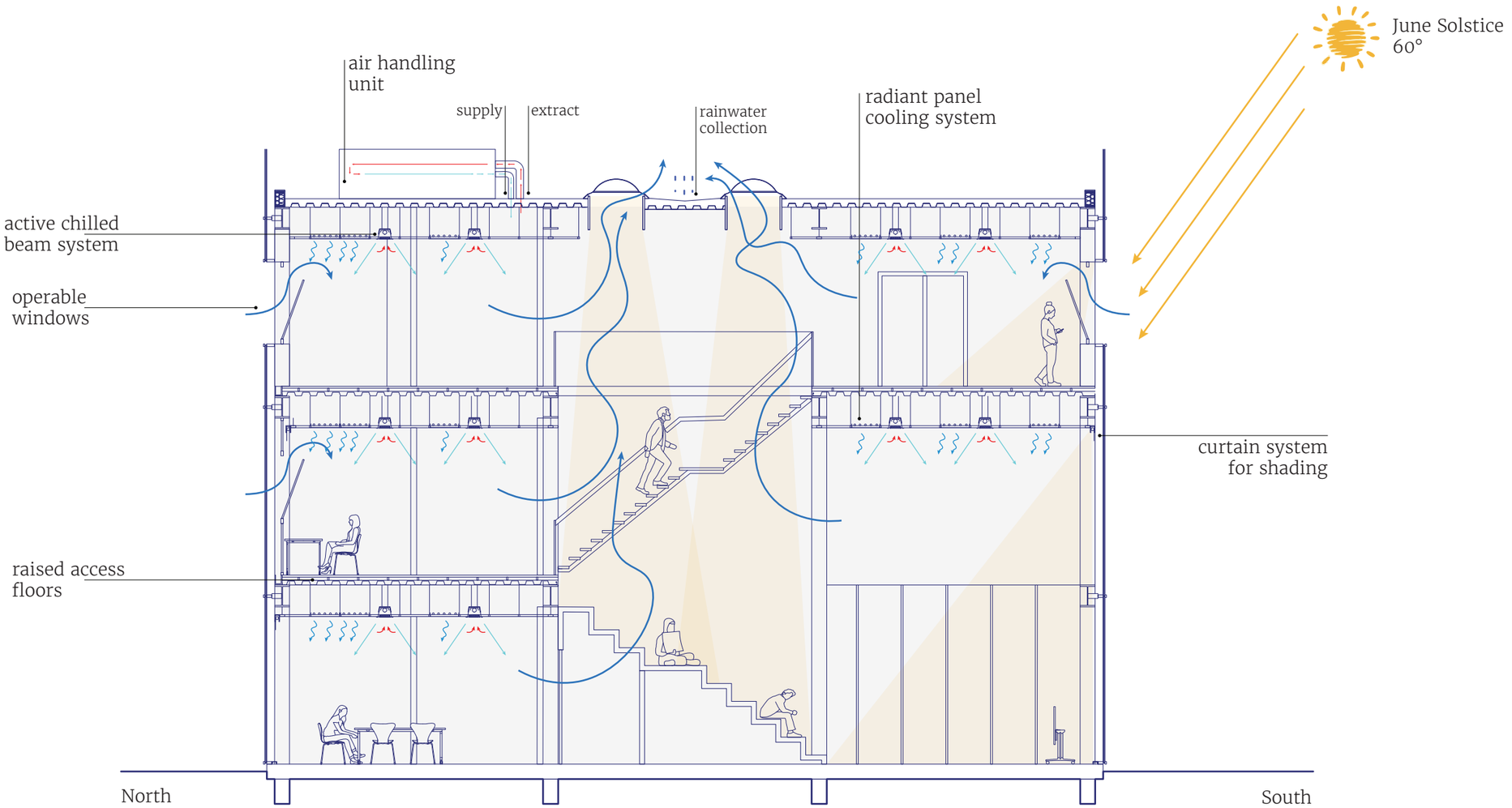
West

East

Winter: energy accumulation and radiation to interior
max insulation
stack effect with the atrium



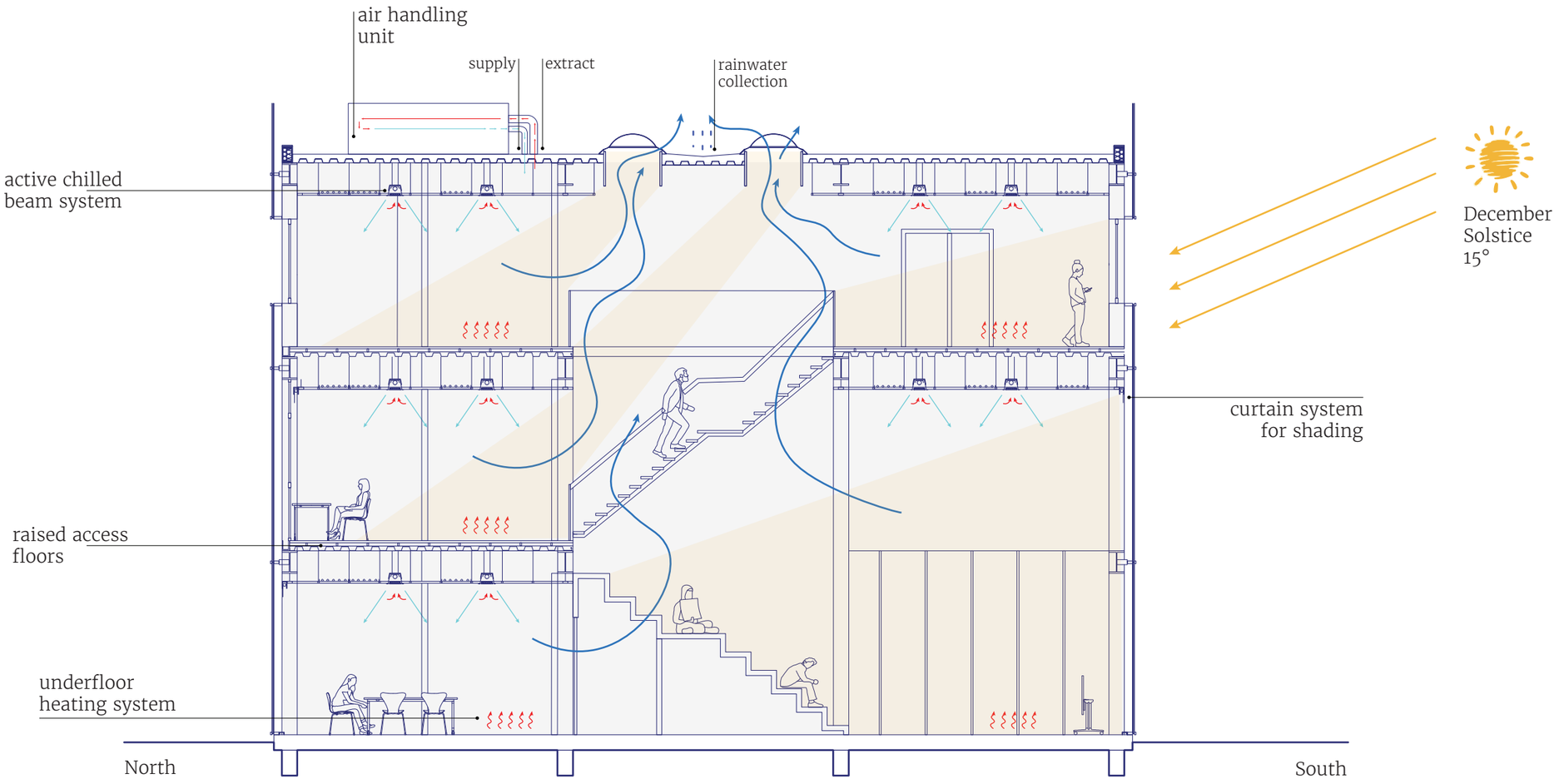
10m
Scale 1:200



Summer: cross ventilation and natural ventilation
stack effect with the atrium
radiant panel cooling system on the exposed ceiling supported with active chilled beam system

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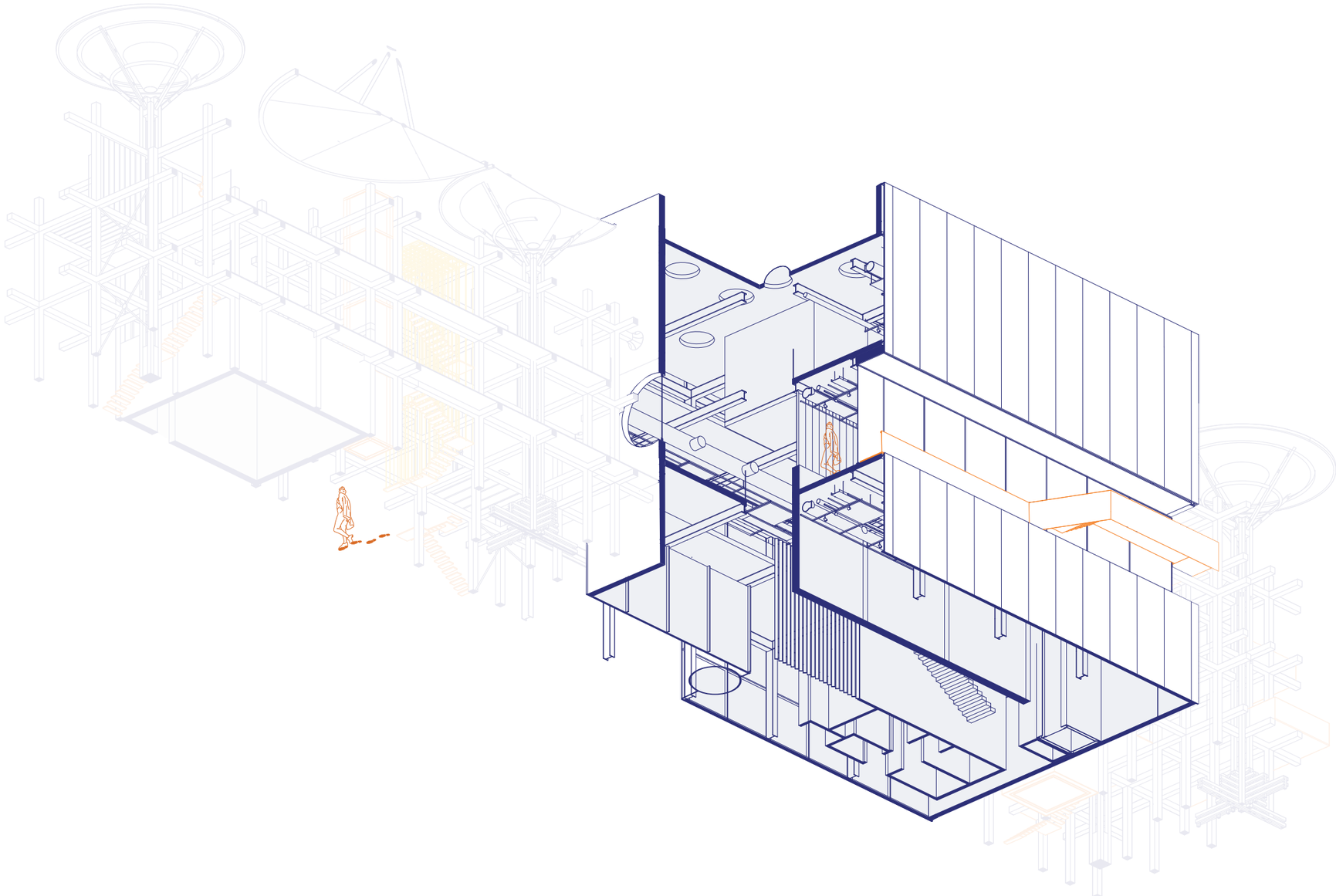
10m
Scale 1:200



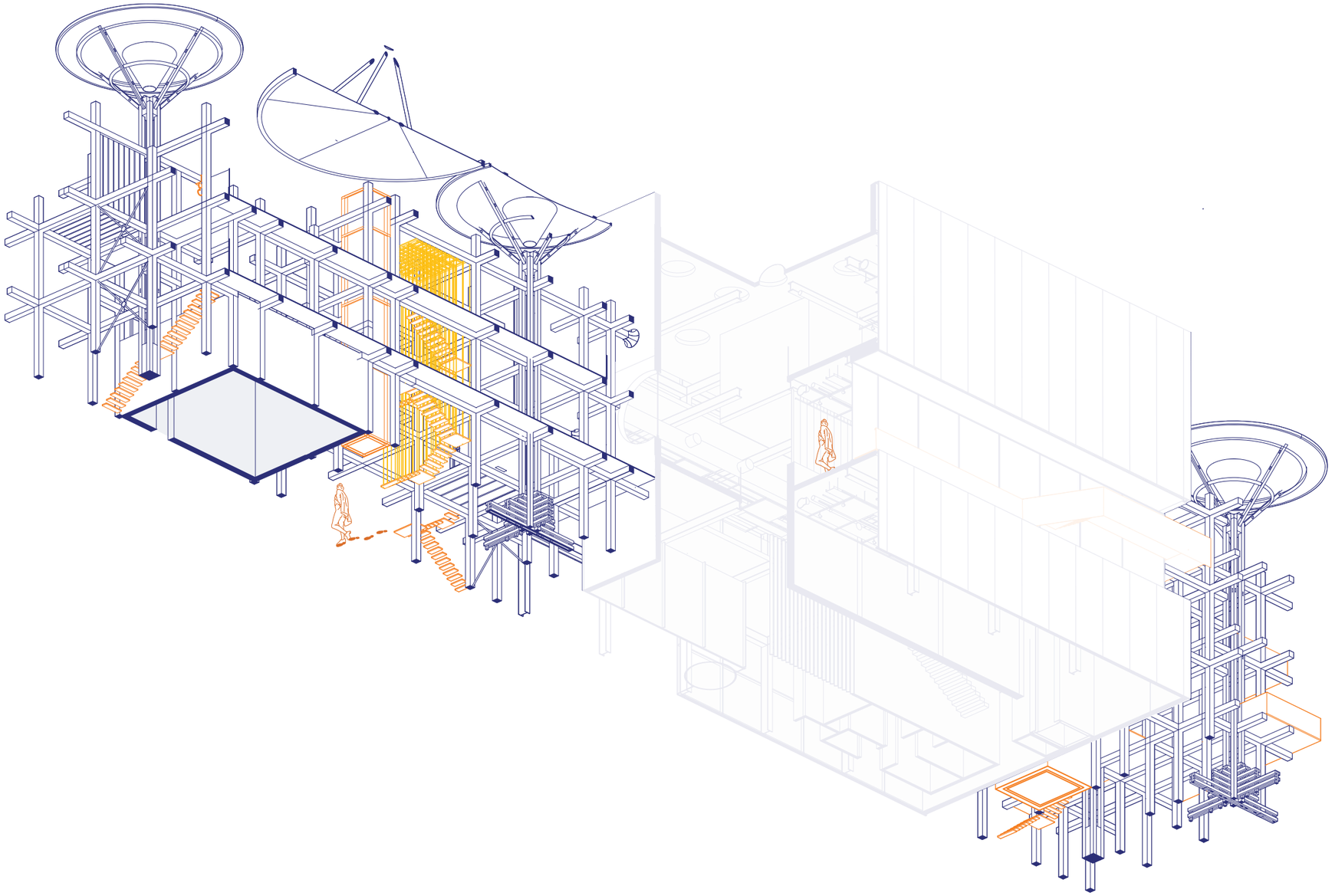
Winter: energy accumulation and radiation to interior
max insulation
stack effect with the atrium

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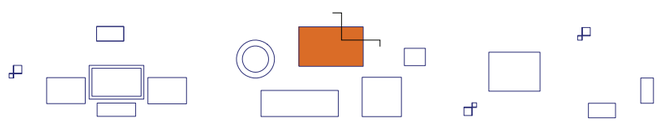
10m
Scale 1:200



maas maas maas

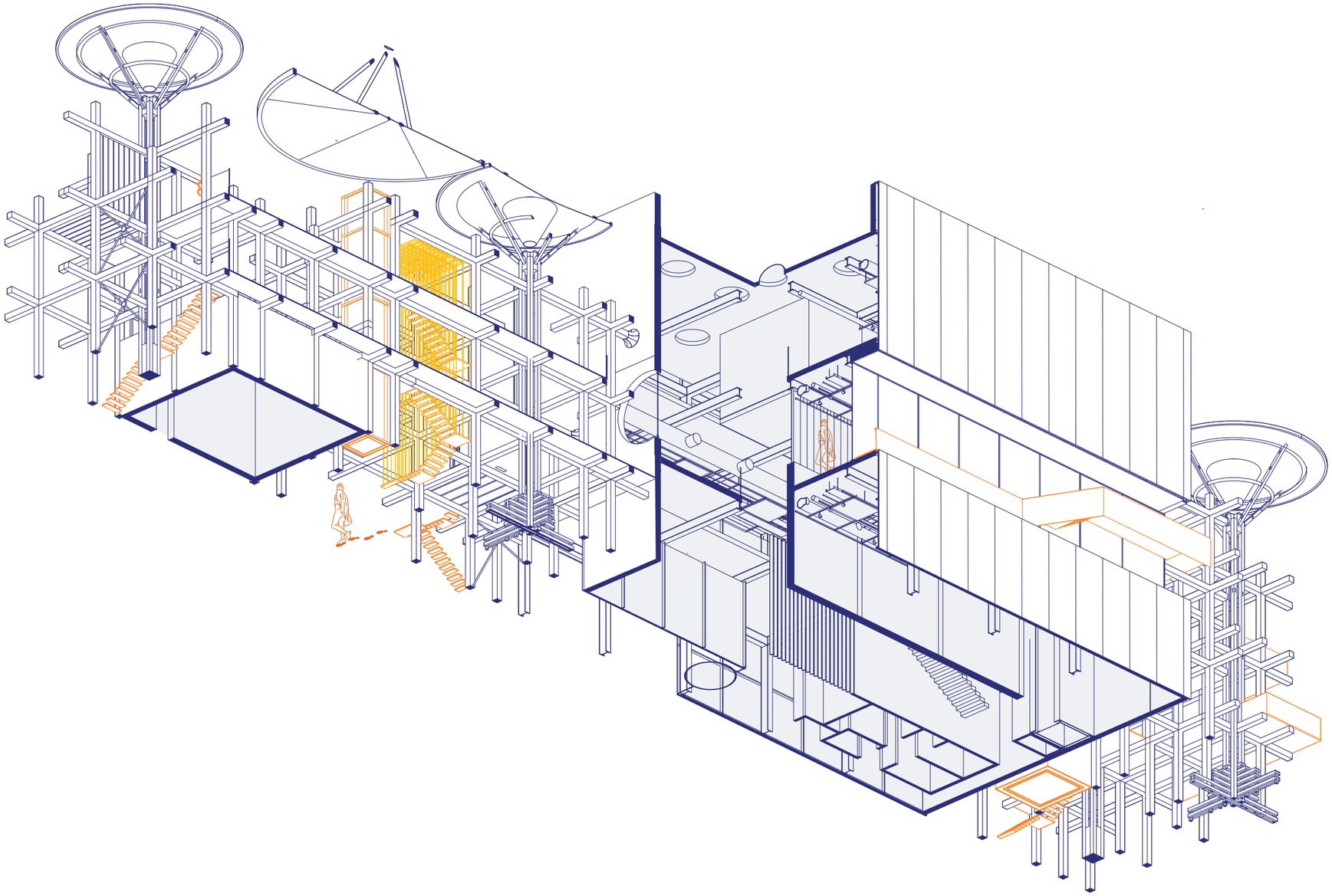


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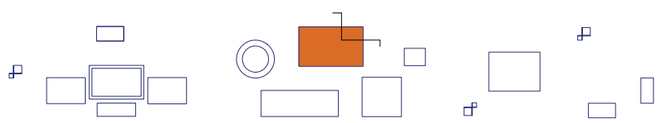


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10m

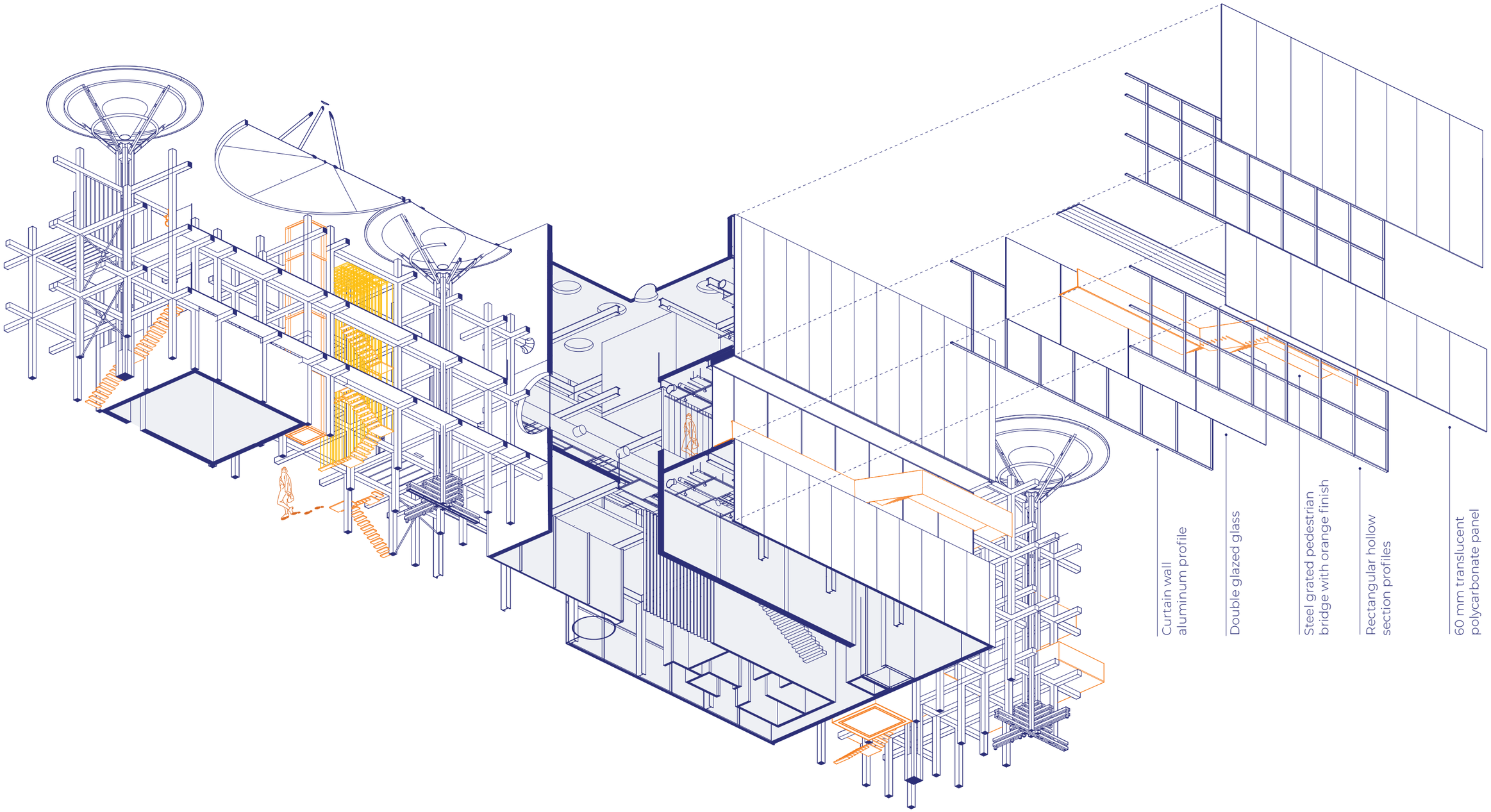


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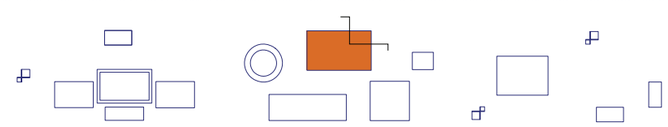


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10m



maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas maas



dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike dike

10m

A- drainage channel with galvanised steel grating, 129mm x 80mm

B- 150mm computer floor system -demountable and adjustable-, integrated underfloor heating and cooling system, 200 mm precast hollow core slab, 180 mm EPS insulation wrapped in membrane

C- 60 mm translucent polycarbonate panel, 54x108mm steel profile with aluminum anchor

D- adjustable suspended grid ceiling

E- active chilled beam system integrated with the air handling unit

F- 15mm lightweight fiber reinforced concrete panels

G- transparent corrugated plastic sheet

H- stainless steel grating stairs system with orange finish

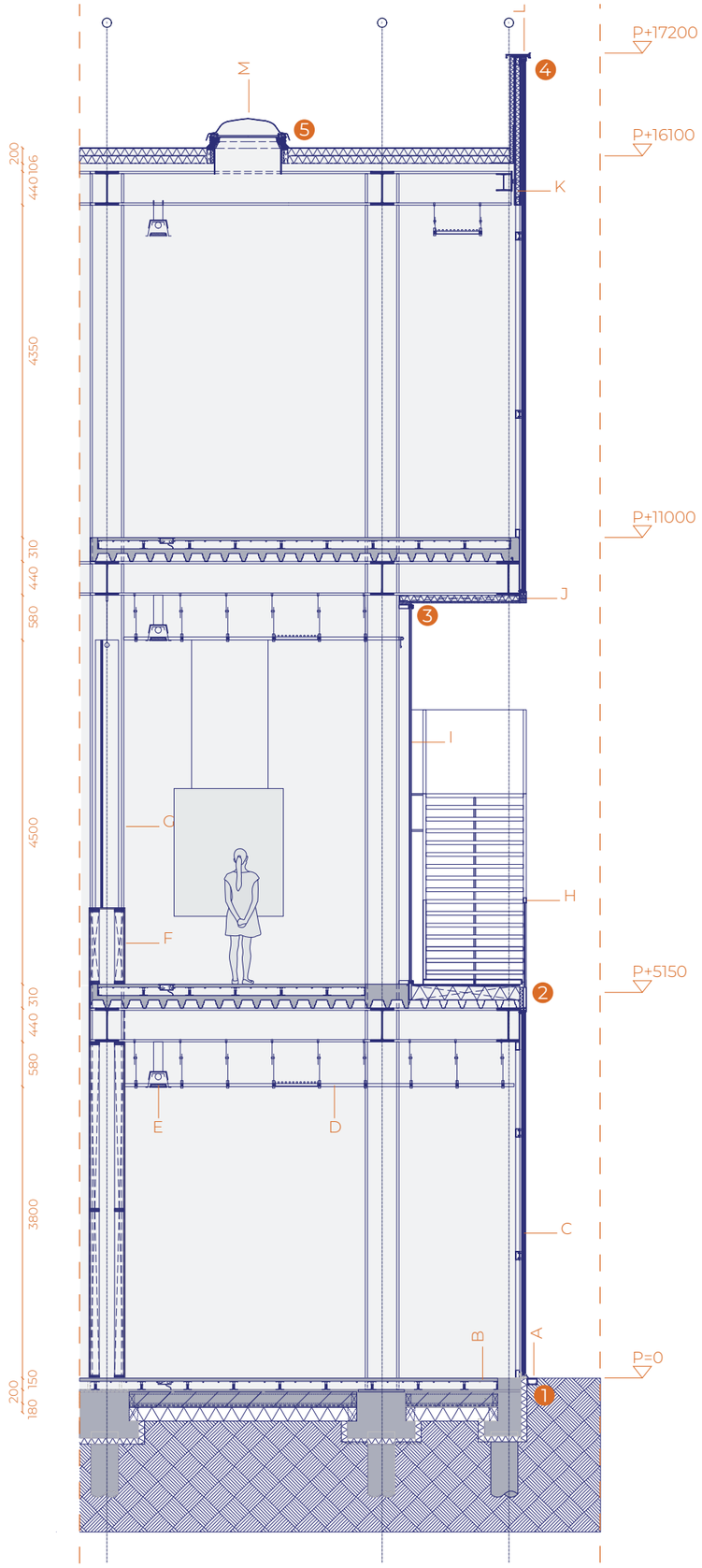
I- curtain wall system with double glazing, 188mm

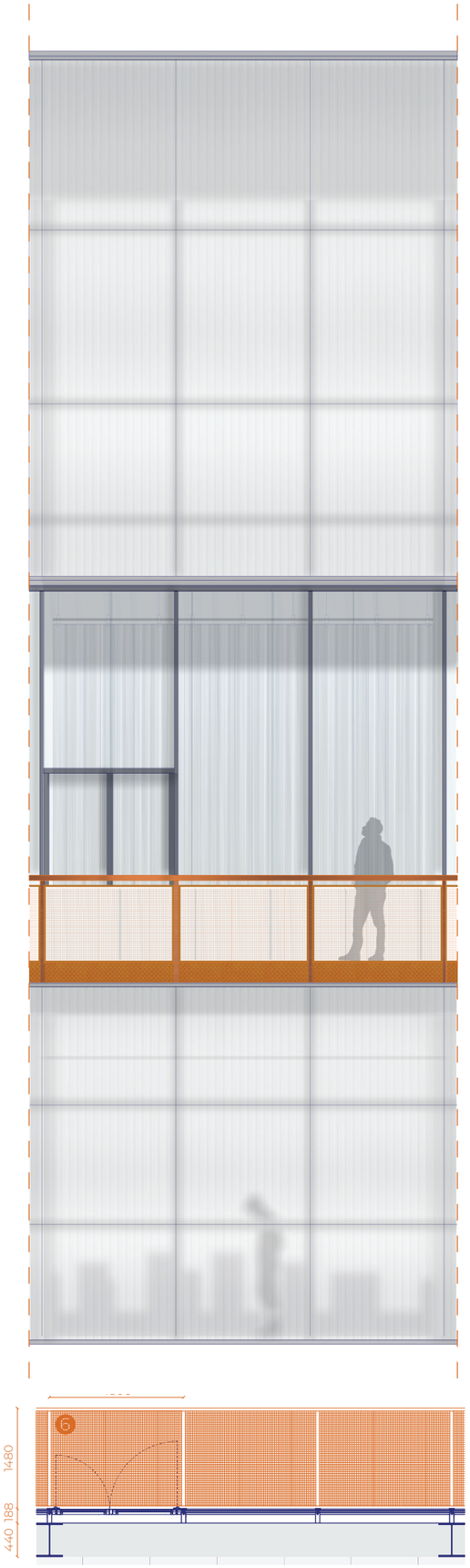
J- insulated ceiling system with timber cladding -insulation is wrapped in membrane-, aluminum cladding under the polycarbonate panel profile

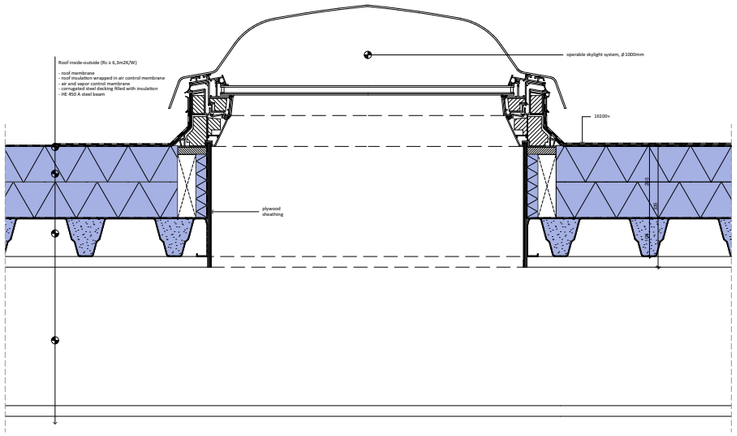
K- steel parapet framing filled with insulation, plywood applied on both sides

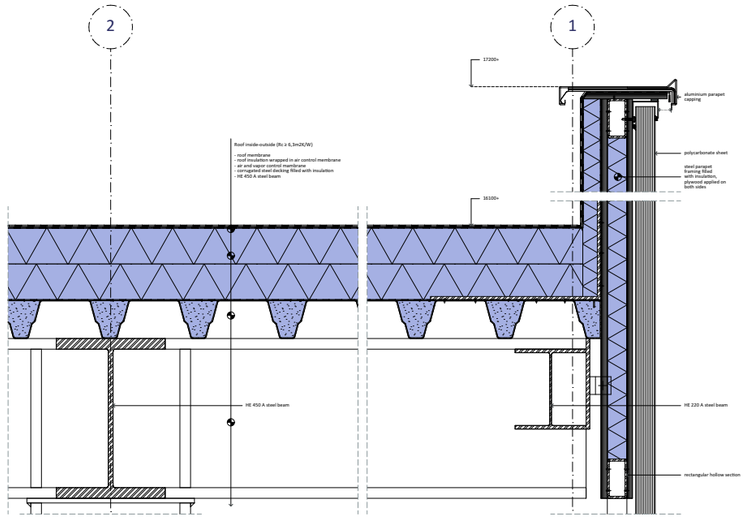
L- aluminum parapet capping

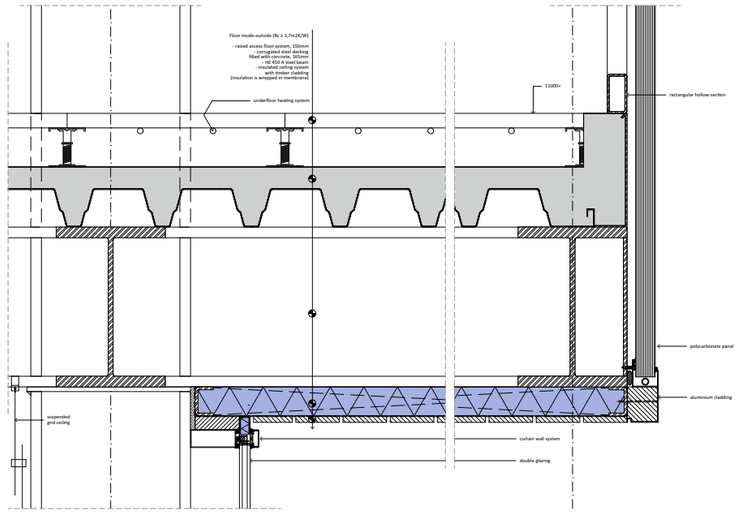
M- operable skylight system, Ø 1000mm

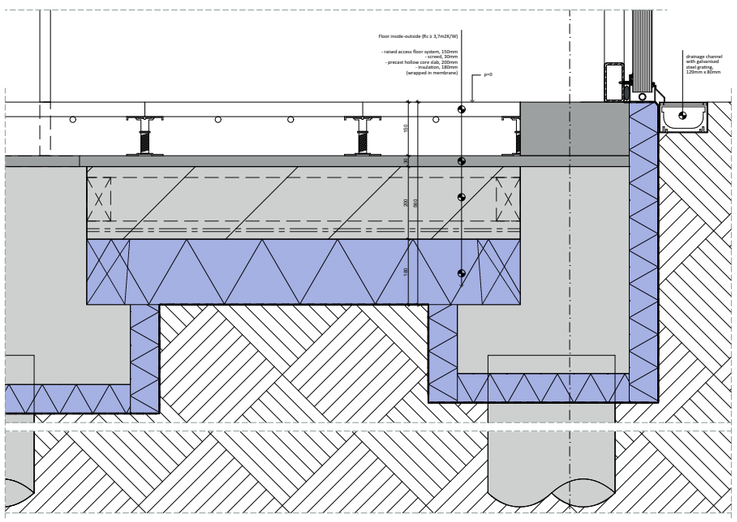


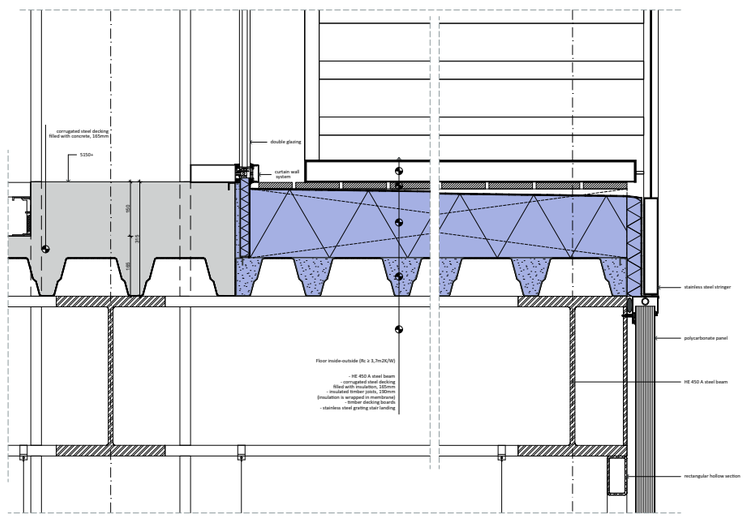


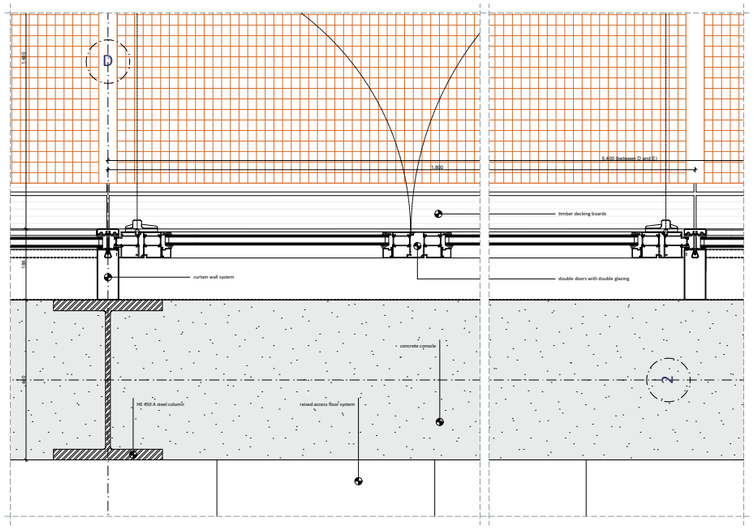

Roof inside-outside (Rc ≥ 6,3m2K/W)
- roof membrane
- insulation layer wrapped in air control membrane
- air and vapor control membrane
- corrugated steel decking filled with insulation
- HE 450 A steel beam
operable skylight system, ø 1000mm
16100+
plywood sheathing


2
1
17200+
Roof inside-outside (Rc ≥ 6,3m2K/W)
- roof membrane
- insulation layer wrapped in air control membrane
- air and vapor control membrane
- corrugated steel decking filled with insulation
- HE 450 A steel beam
16100+
aluminium parapet capping
polycarbonate sheet
steel parapet framing filled with insulation, plywood applied on both sides
HE 450 A steel beam
HE 220 A steel beam
rectangular hollow section


Floor inside-outside (Rc ≥ 3,7m2K/W)
- raised access floor system, 150mm
- corrugated steel decking filled with concrete, 265mm
- HE 450 A steel beam
- insulation, 180mm
with timber cladding
(insulation is wrapped in membrane)
underfloor heating system
11000+
rectangular hollow section
polycarbonate panel
aluminium cladding
suspended grid ceiling
curtain wall system
double glazing


Floor inside-outside (Rc ≥ 3,7m2K/W)
- raised access floor system, 150mm
screed, 30mm
- precast hollow core slab, 200mm
- insulation, 180mm
(wrapped in membrane)
p=0
drainage channel with galvanised steel grating, 120mm x 80mm
150
40
200
180
300


corrugated steel decking filled with concrete, 265mm
double glazing
curtain wall system
5150+
265
215
180
Floor inside-outside (Rc ≥ 3,7m2K/W)
- HE 450 A steel beam
- corrugated steel decking
filled with concrete, 265mm
- insulated timber joists, 180mm
(insulation is wrapped in membrane)
- timber decking boards
- stainless steel grating stair landing
stainless steel stringer
polycarbonate panel
HE 450 A steel beam
rectangular hollow section


D
C
3 400
3 400
timber decking boards
curtain wall system
double doors with double glazing
concrete console
HE 450 A steel column
raised access floor system



Altered View

Existing View

Night View