

GLIMPSES OF WATER

by MADRID



I

Cinema and architecture

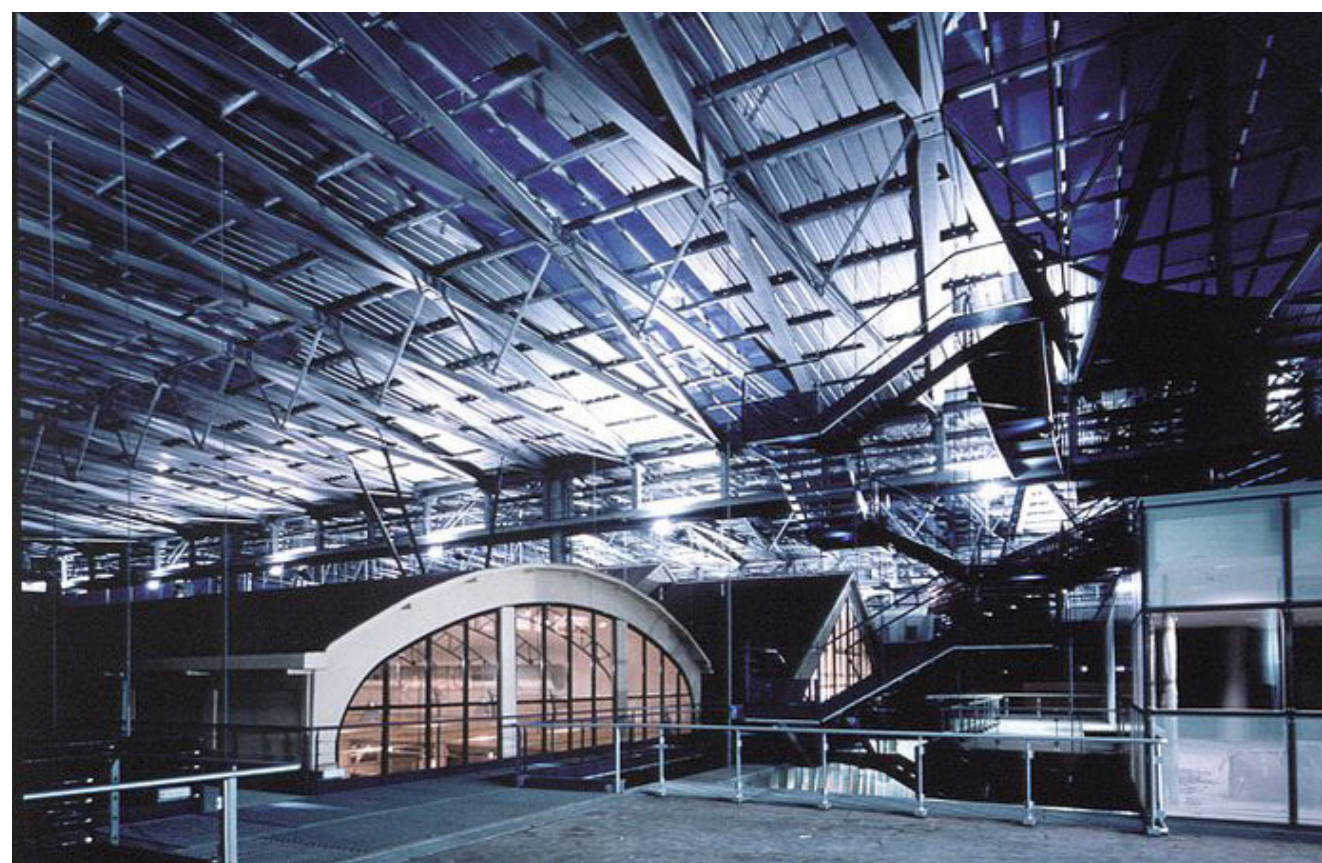
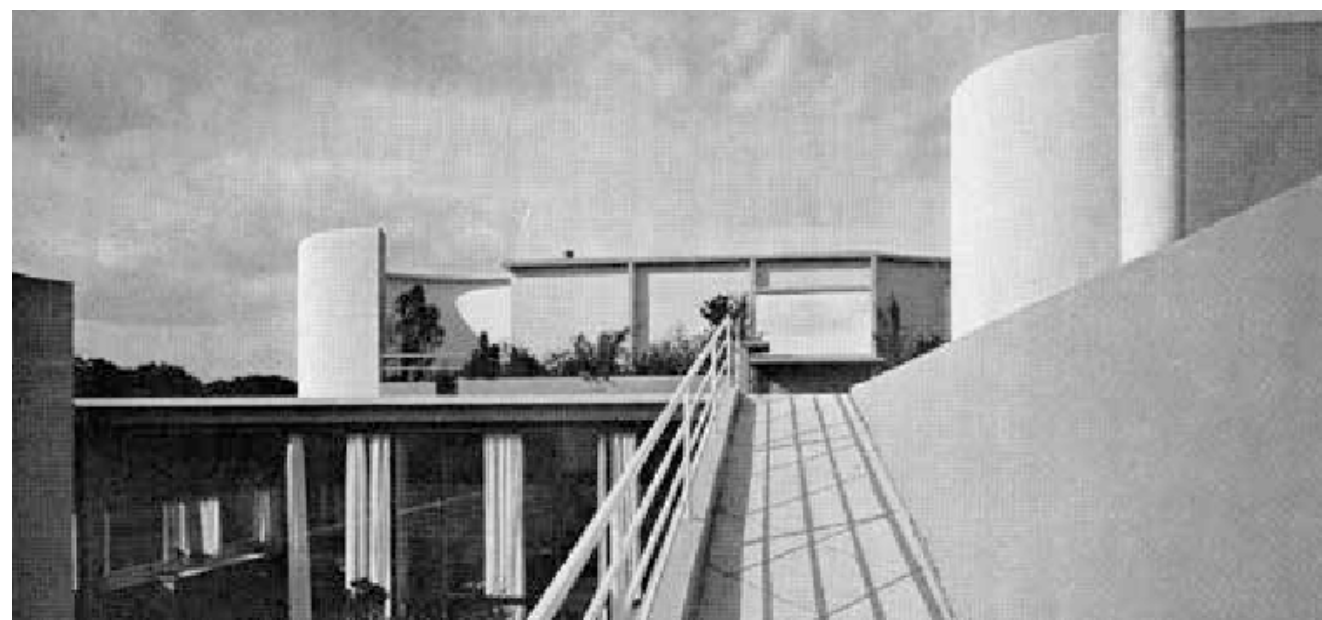
FASCINATION

by CINEMA & ARCHITECTURE



FASCINATION

by Cinematic tools



TRANSECT

by ATMOSPHERES



Mood - embodied haptic sensation rather than an external visual percept
Atmosphere - omnidirectional force, similar to olfactory and auditory

II

Water transect

MANZANARES

by MADRID



MANZANARES

by PAINTING

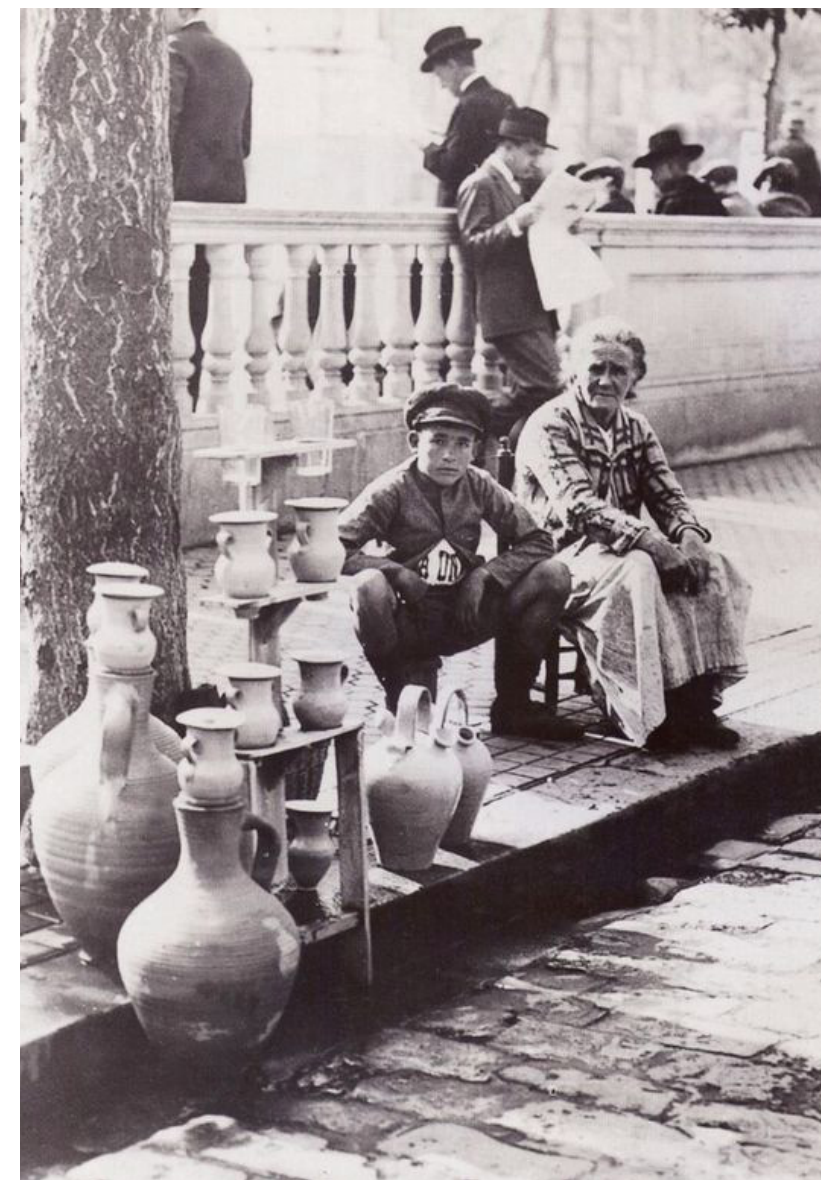


MANZANARES

by PAINTING



MANZANARES
by OLD PROFFESIONS

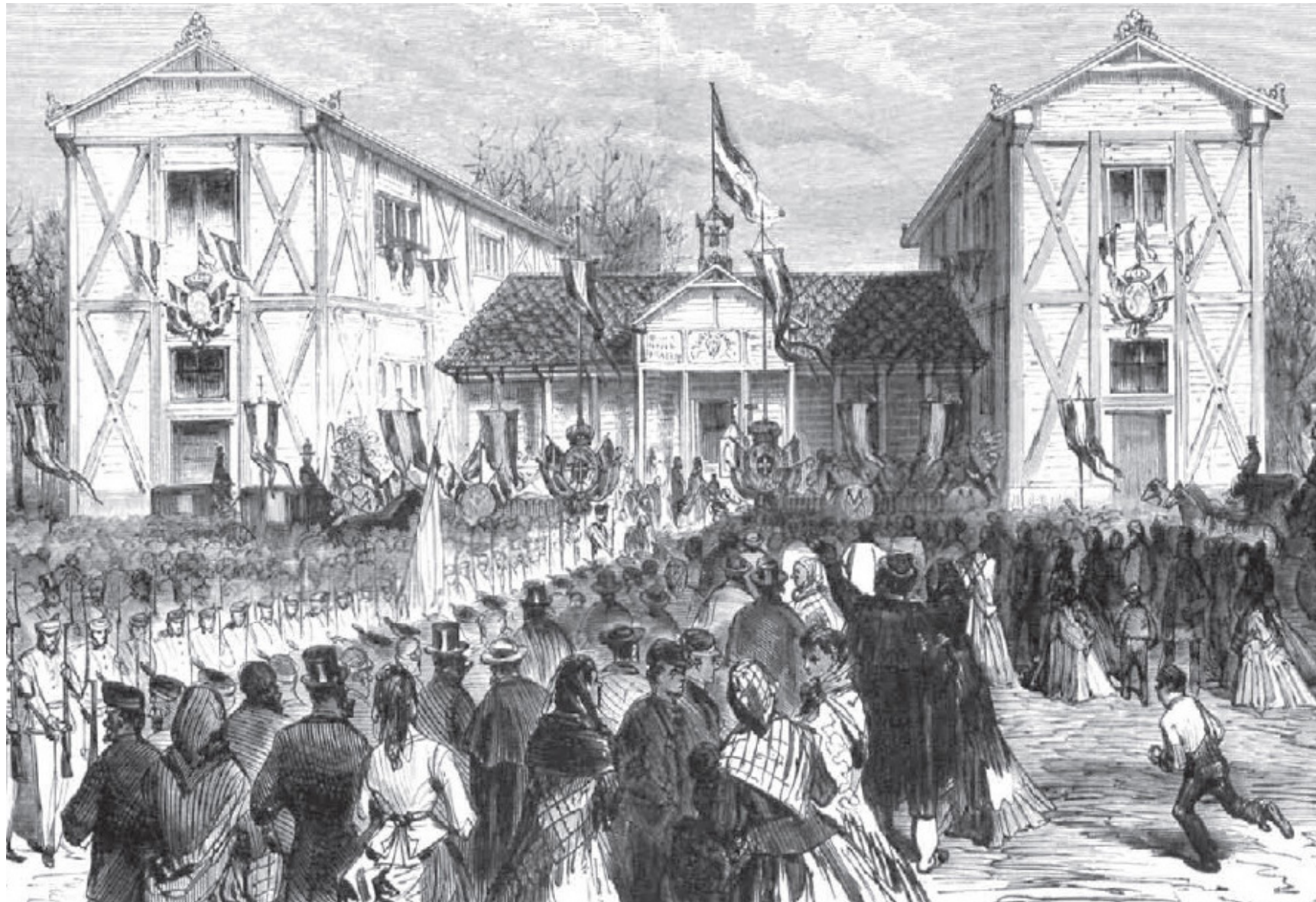


MANZANARES
LAUNDRY



MANZANARES

LAUNDRY STRUCTURES



MANZANARES

Asilo de Lavanderas



MANZANARES

Laundry huts



MANZANARES
LAUNDRY & CHILDREN



WATER CYCLES

Supply by *Viaje de Agua*



WATER CYCLES

Supply by *Viaje de Agua*



WATER

Baths



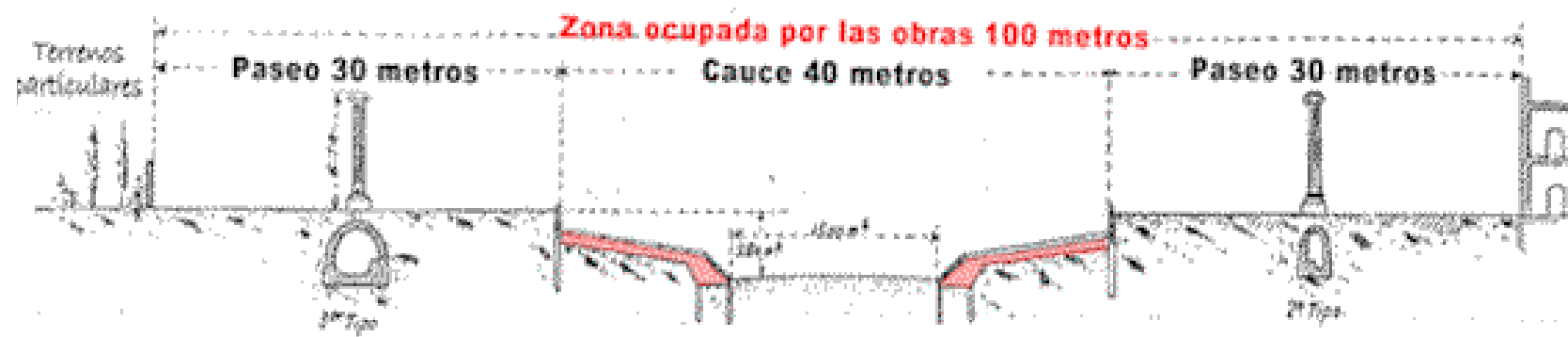
WATER

Baths

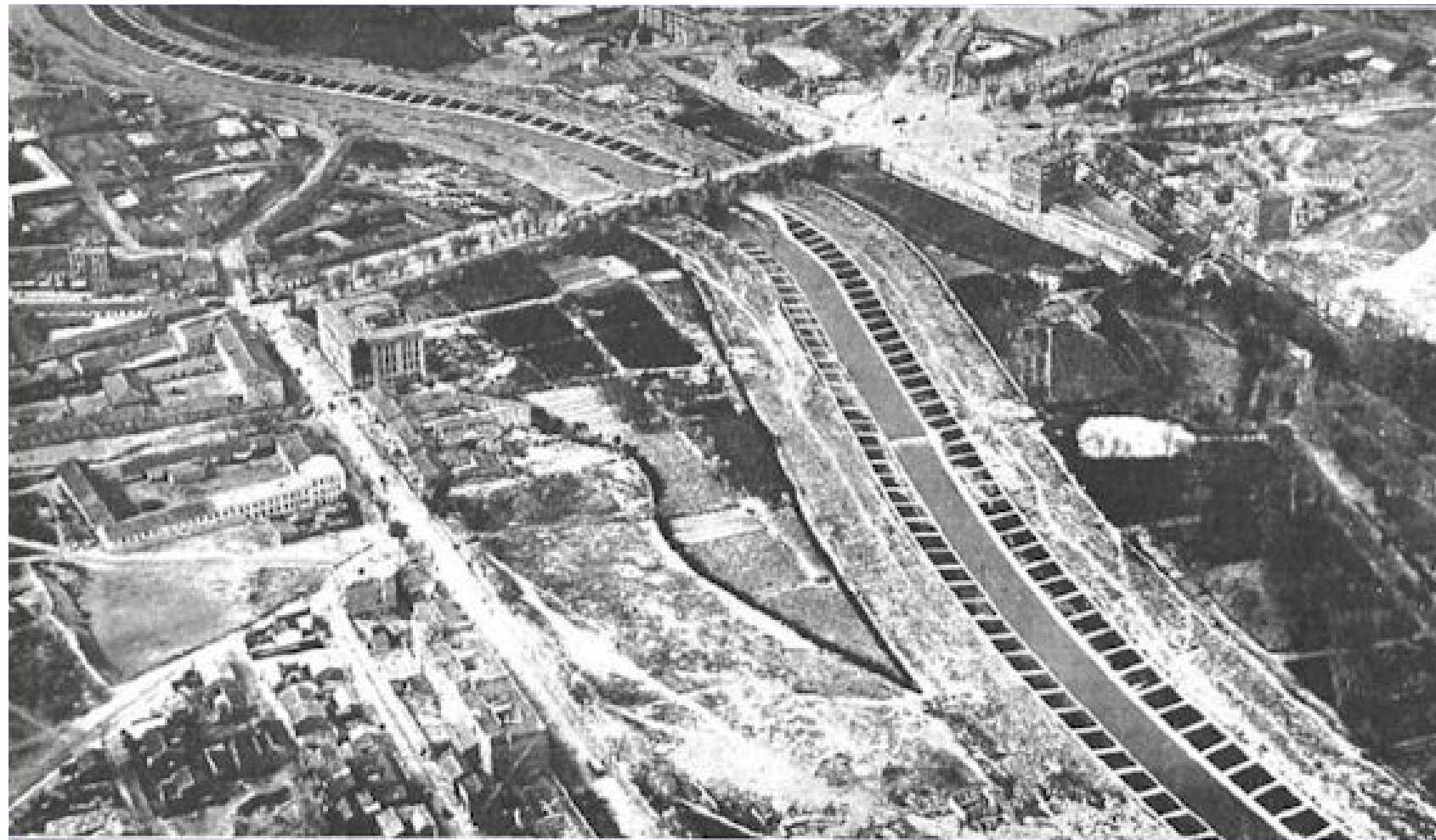


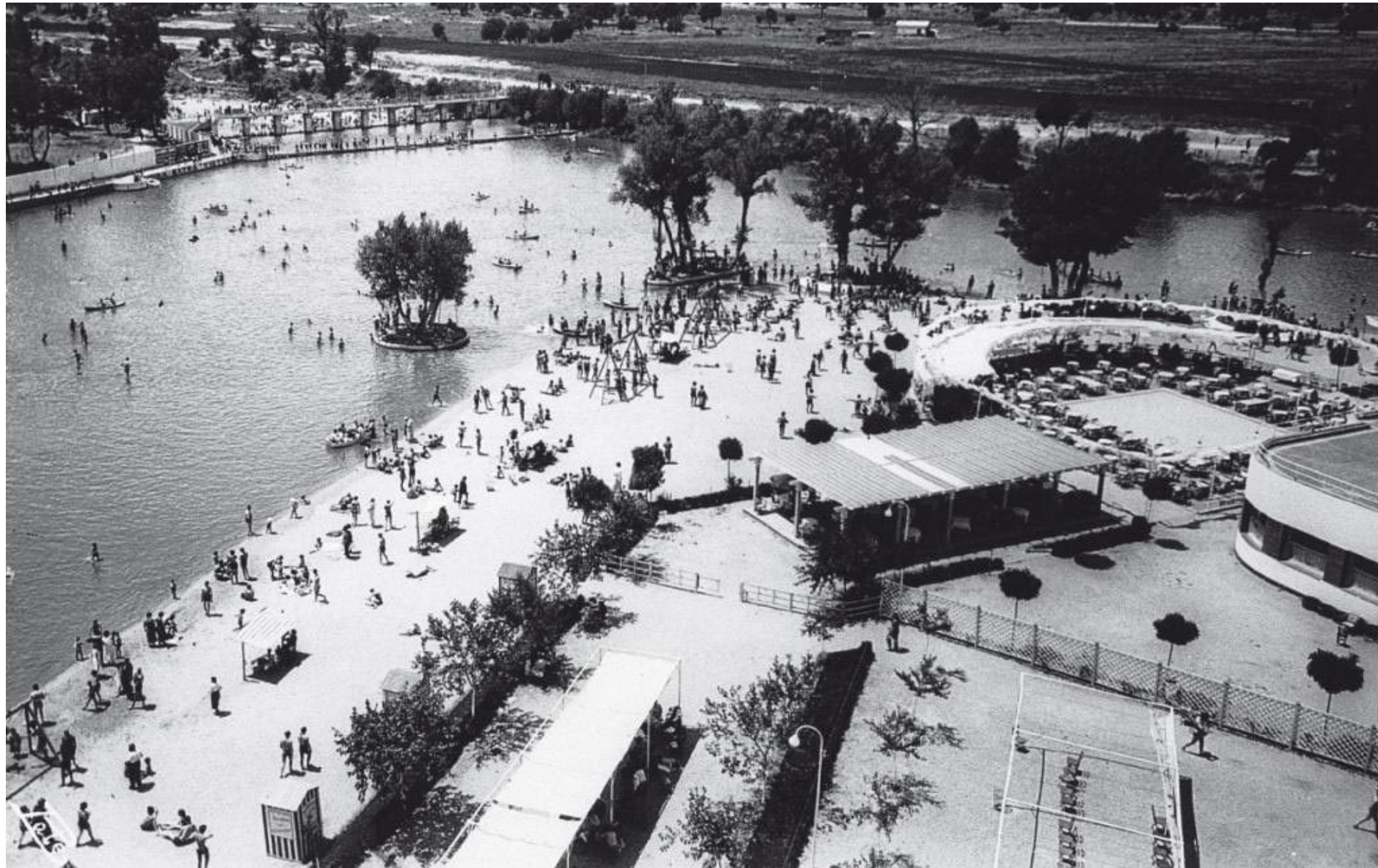
MANZANARES

Canalization



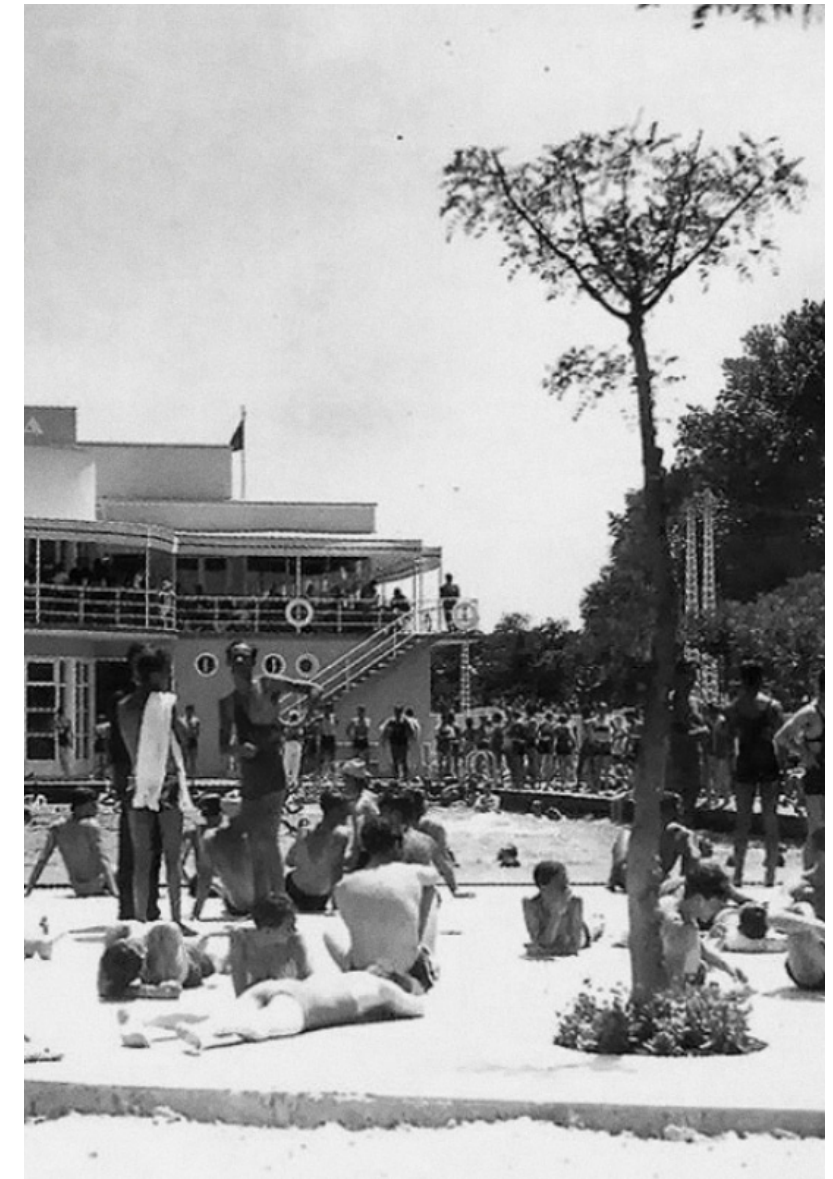
PRIMER ENCAUZAMIENTO: 1914-1925





MANZANARES

Piscina La Isla

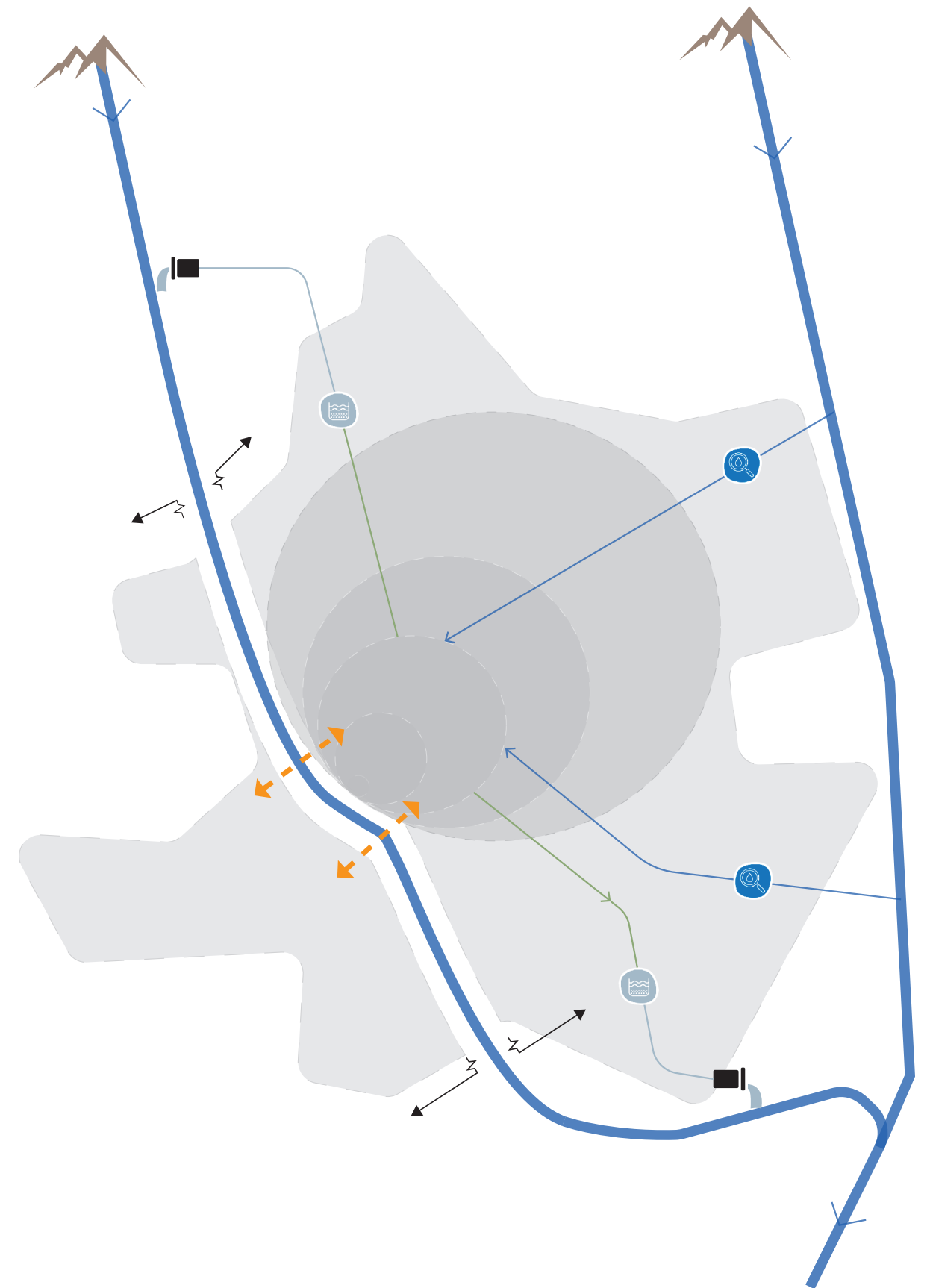
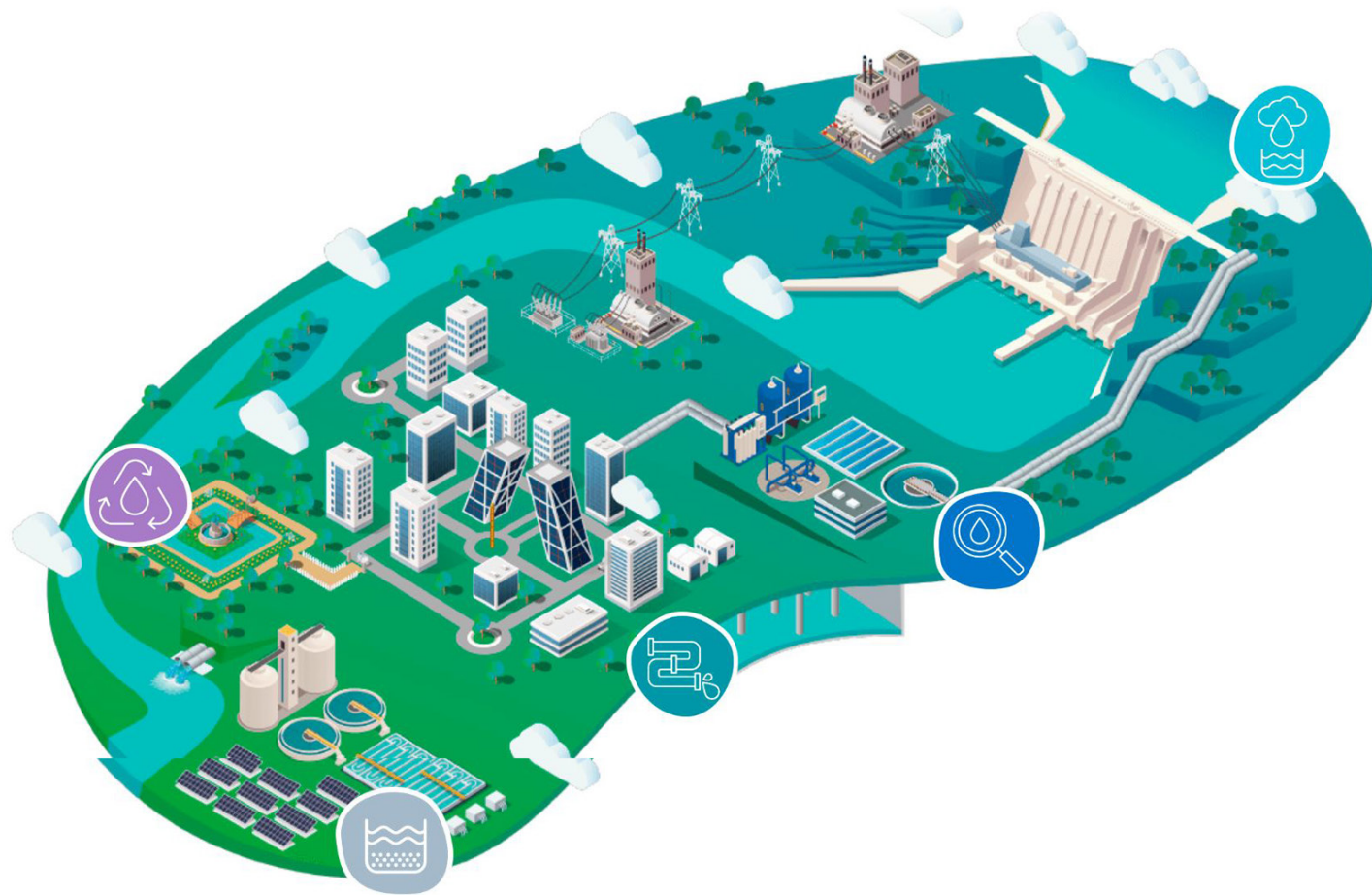


El Pardo Dam

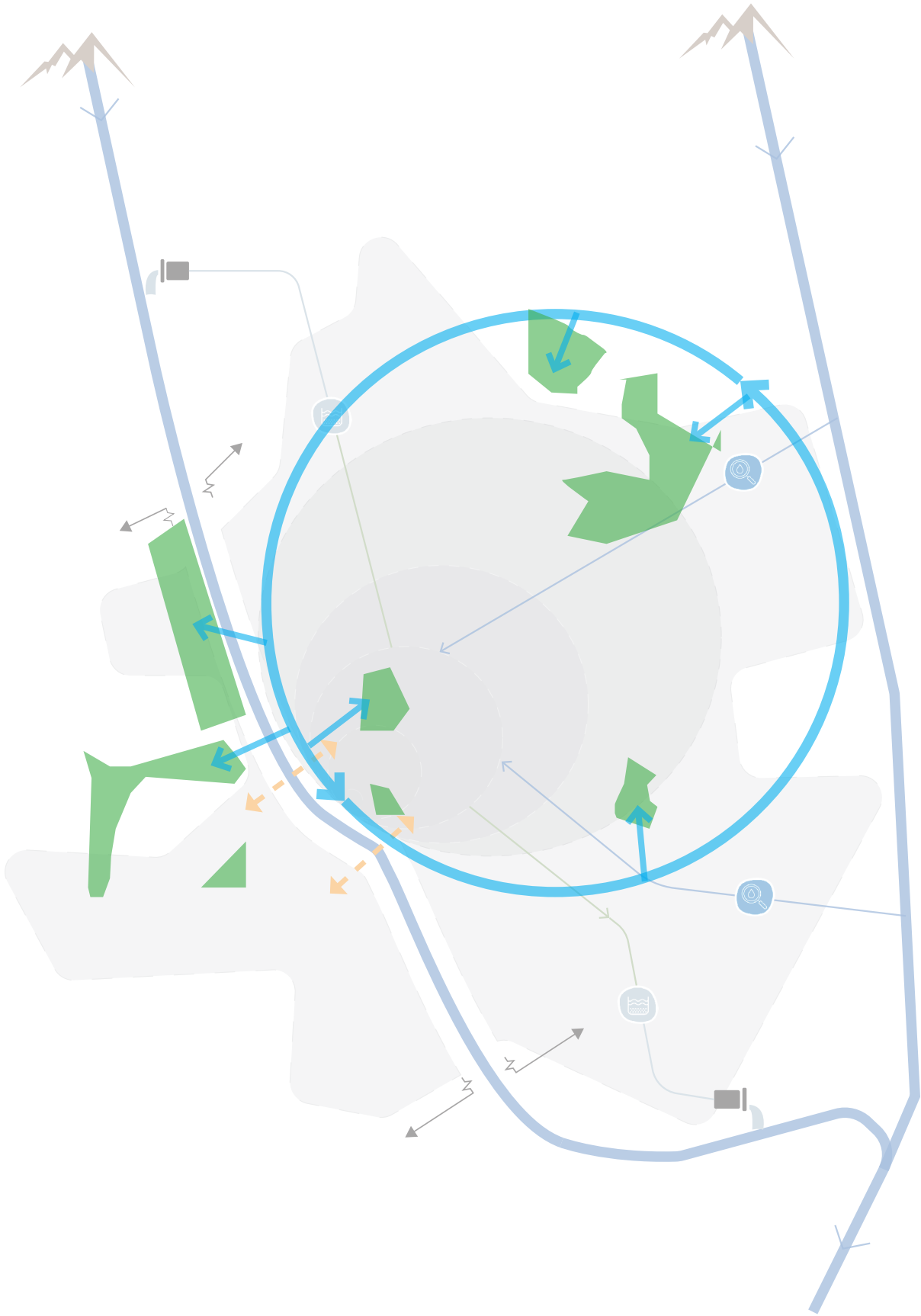


WATER CYCLES

Supply by Canal de Isabel II

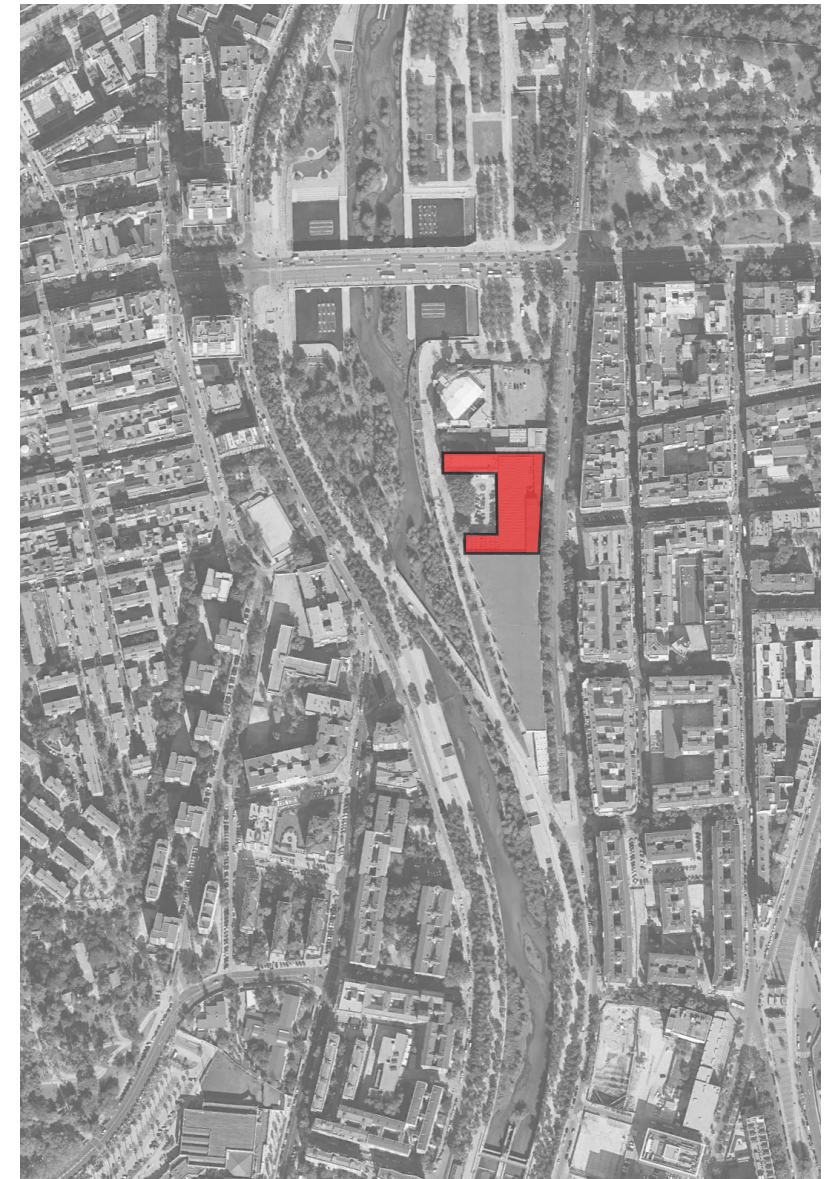


WATER CYCLES
M40 Agua



WATER CYCLES

Hydrographic centre



WATER CYCLES

by Filmic infrastructures





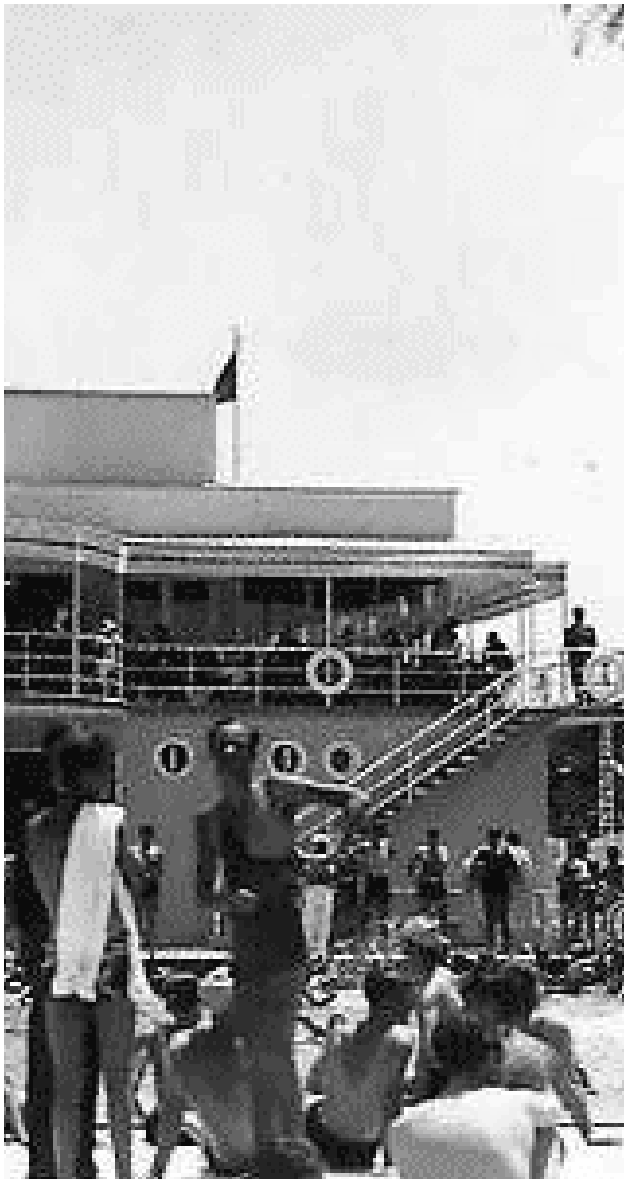
PROGRAMME
SECTIONS

Leisure

Cleansing



Socialize



Education

Cultural/historical



Technical



III

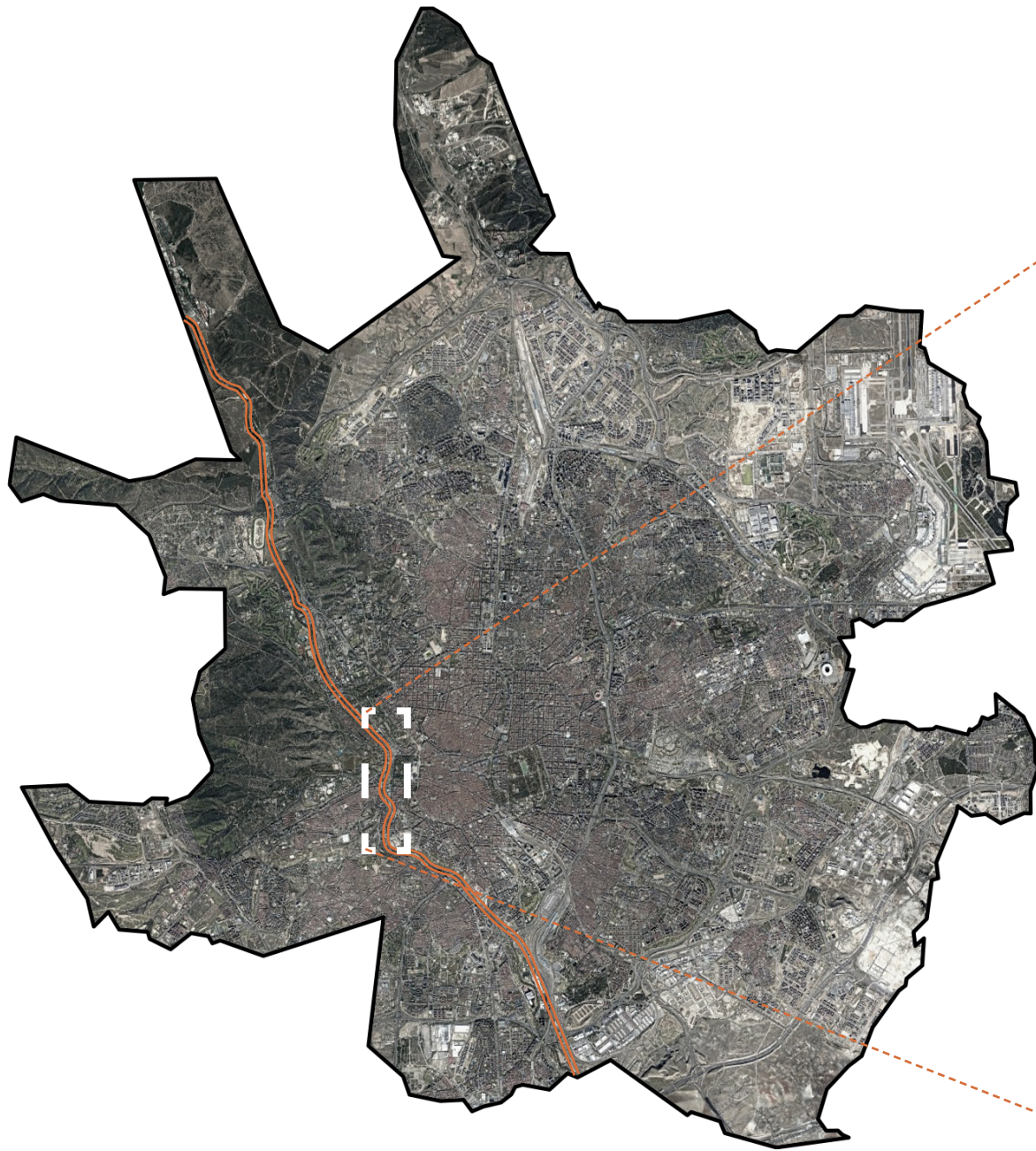
Approach water

SITE
MANZANARES



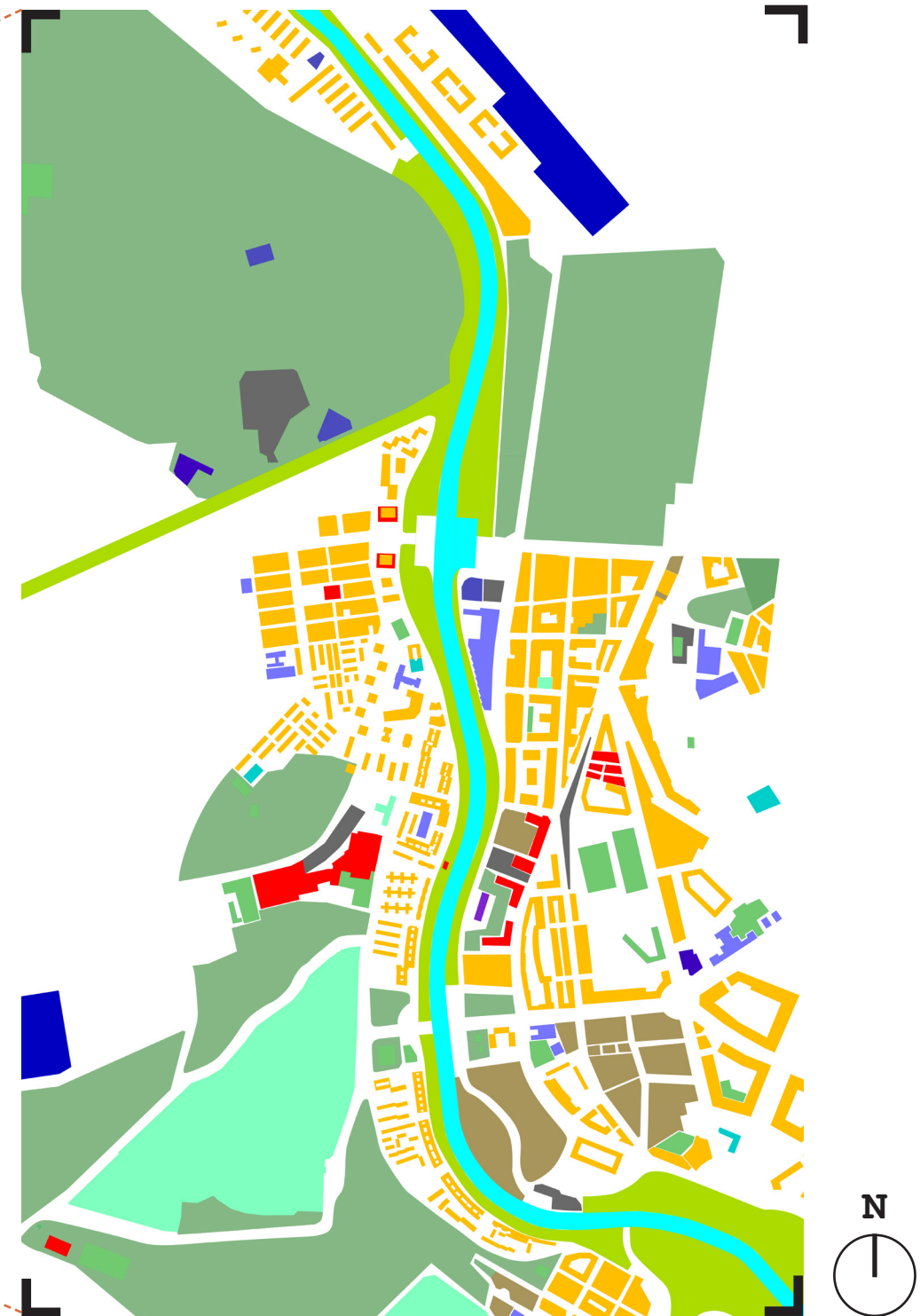
SITE ANALYSIS

LOCATION



SITE ANALYSIS

LAND USAGE



SITE ANALYSIS
SECTIONS



A

A



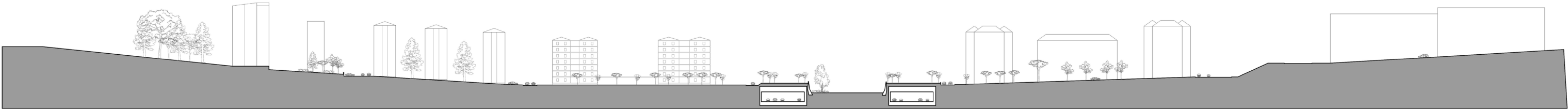
B

B



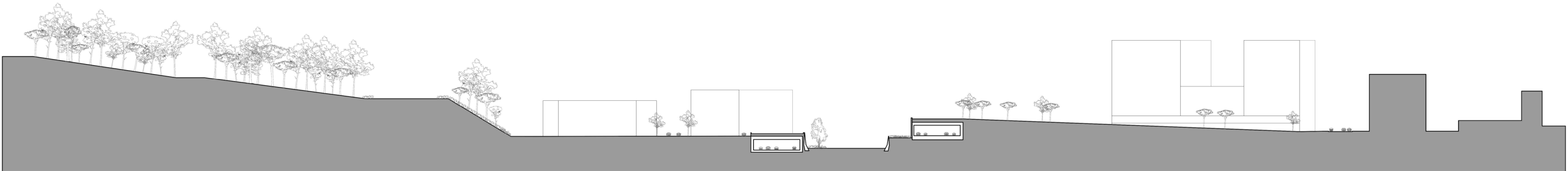
C

C



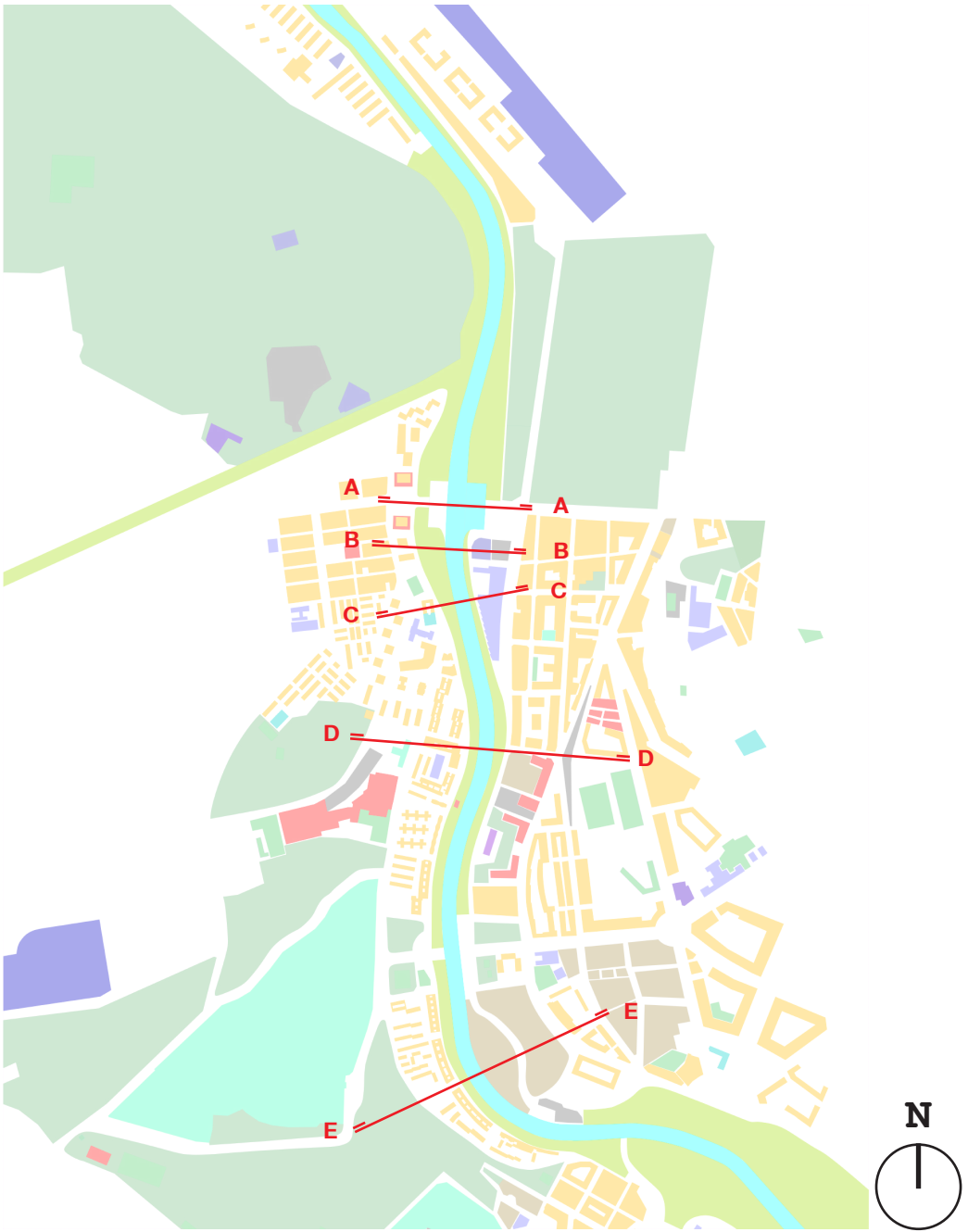
D

D



E

E



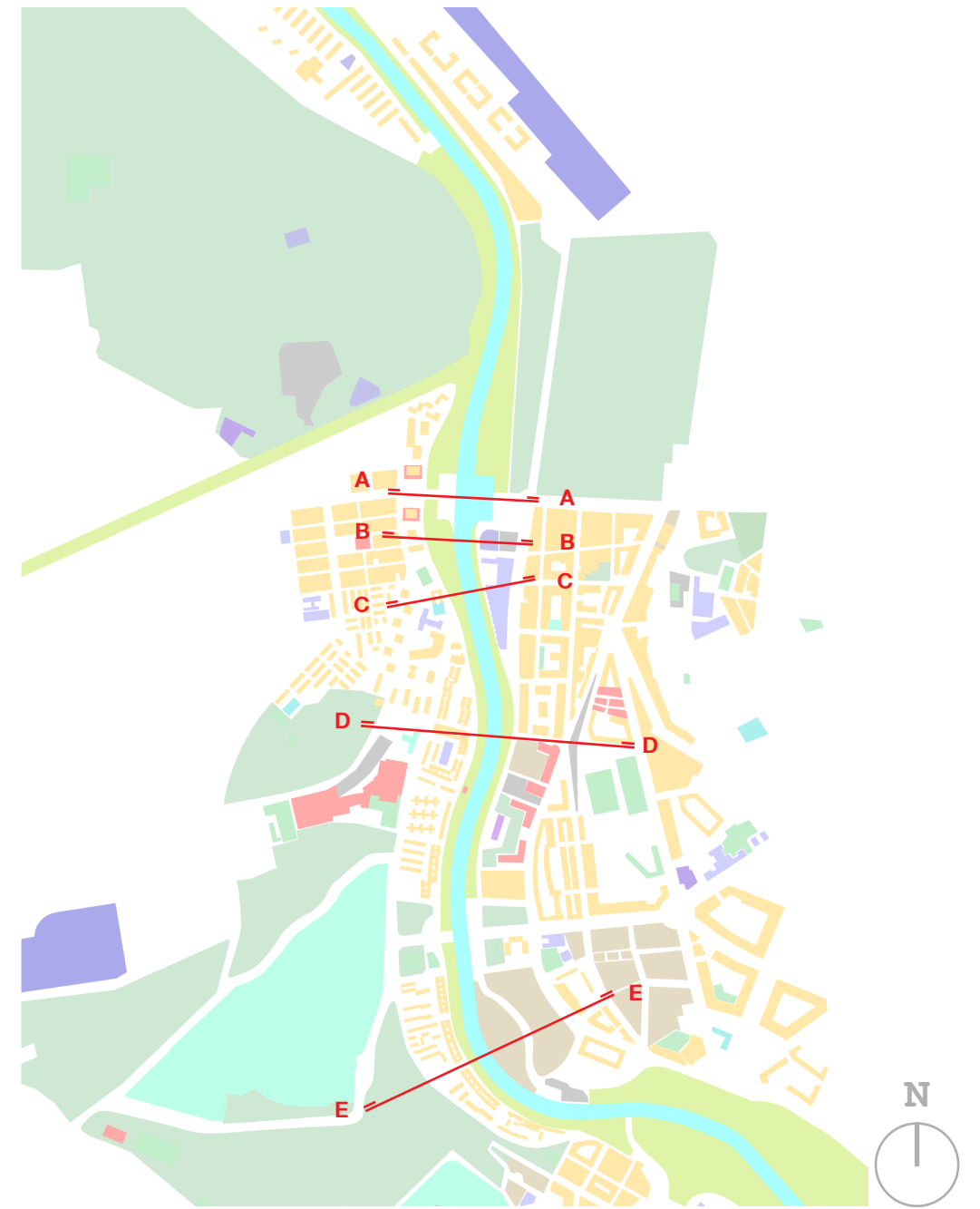
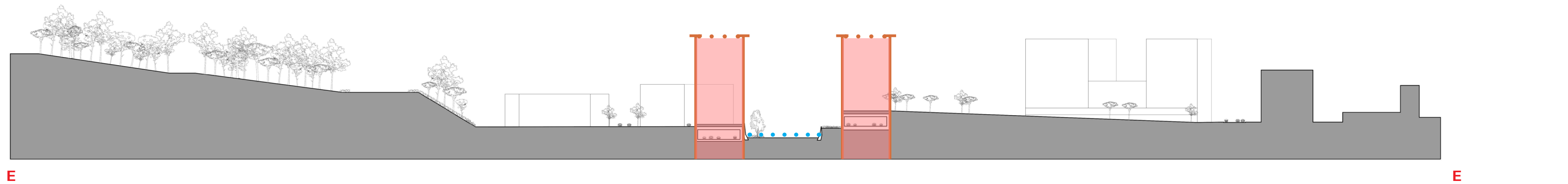
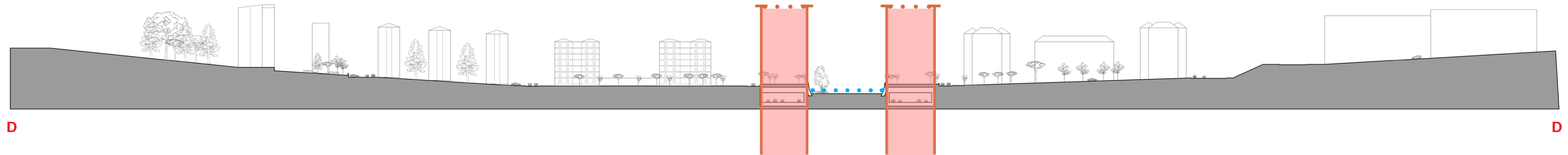
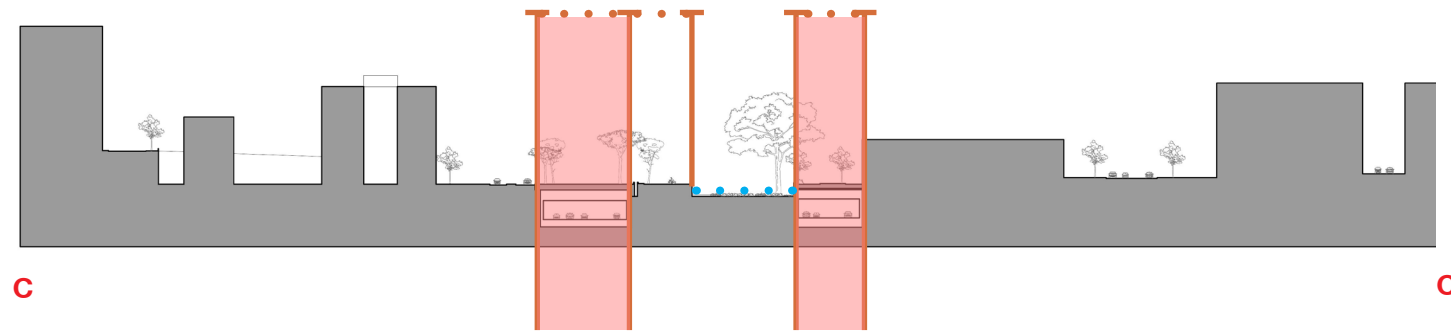
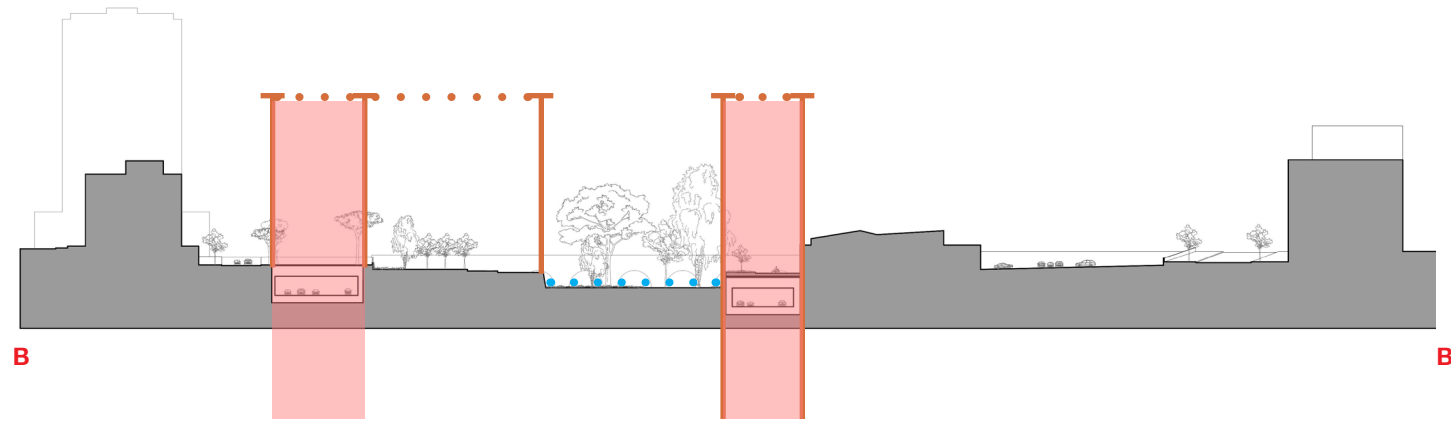
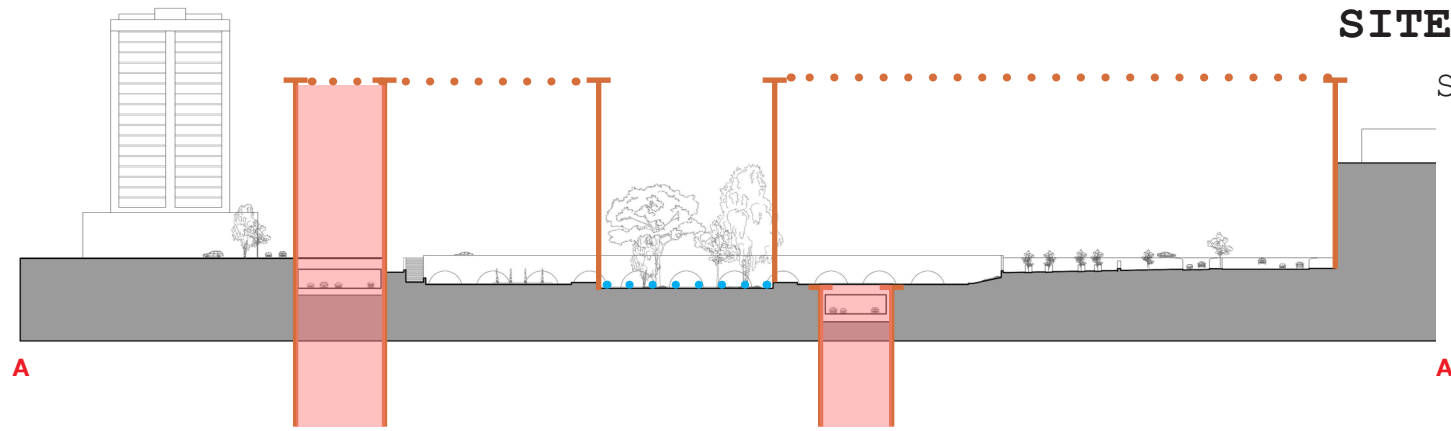
SITE ANALYSIS

SECTIONS



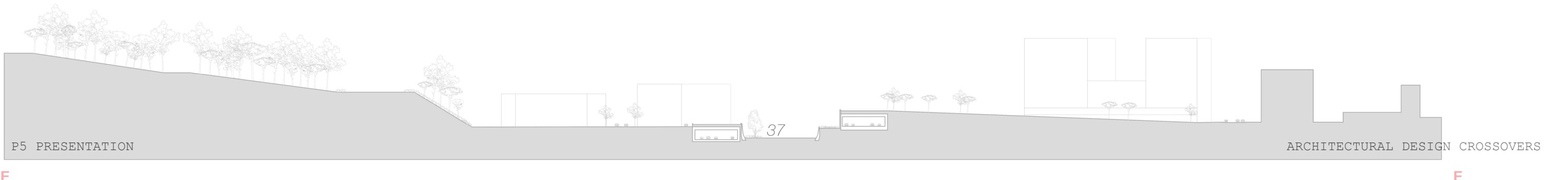
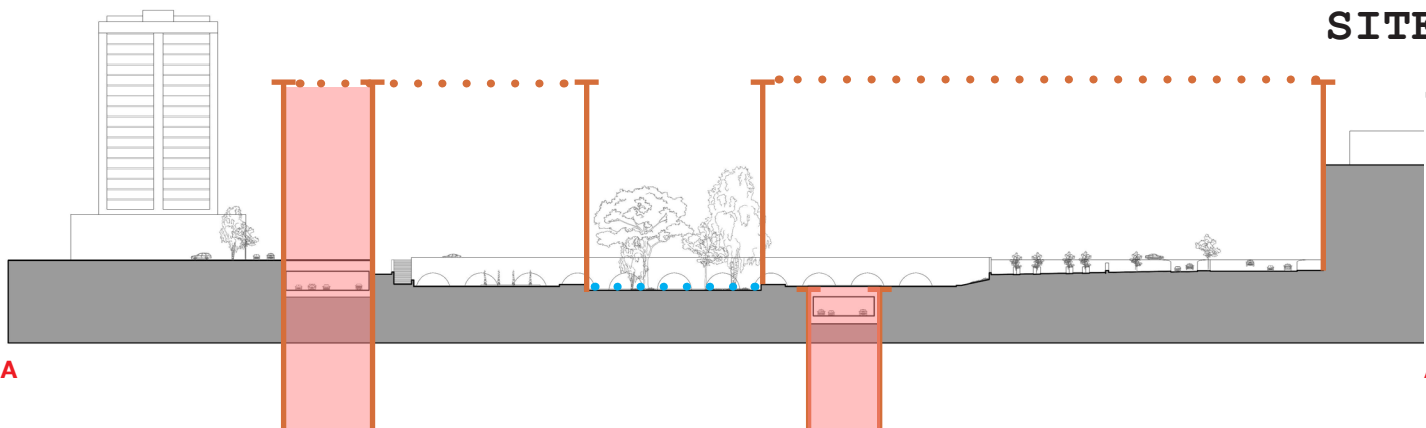
SITE ANALYSIS

SECTIONS



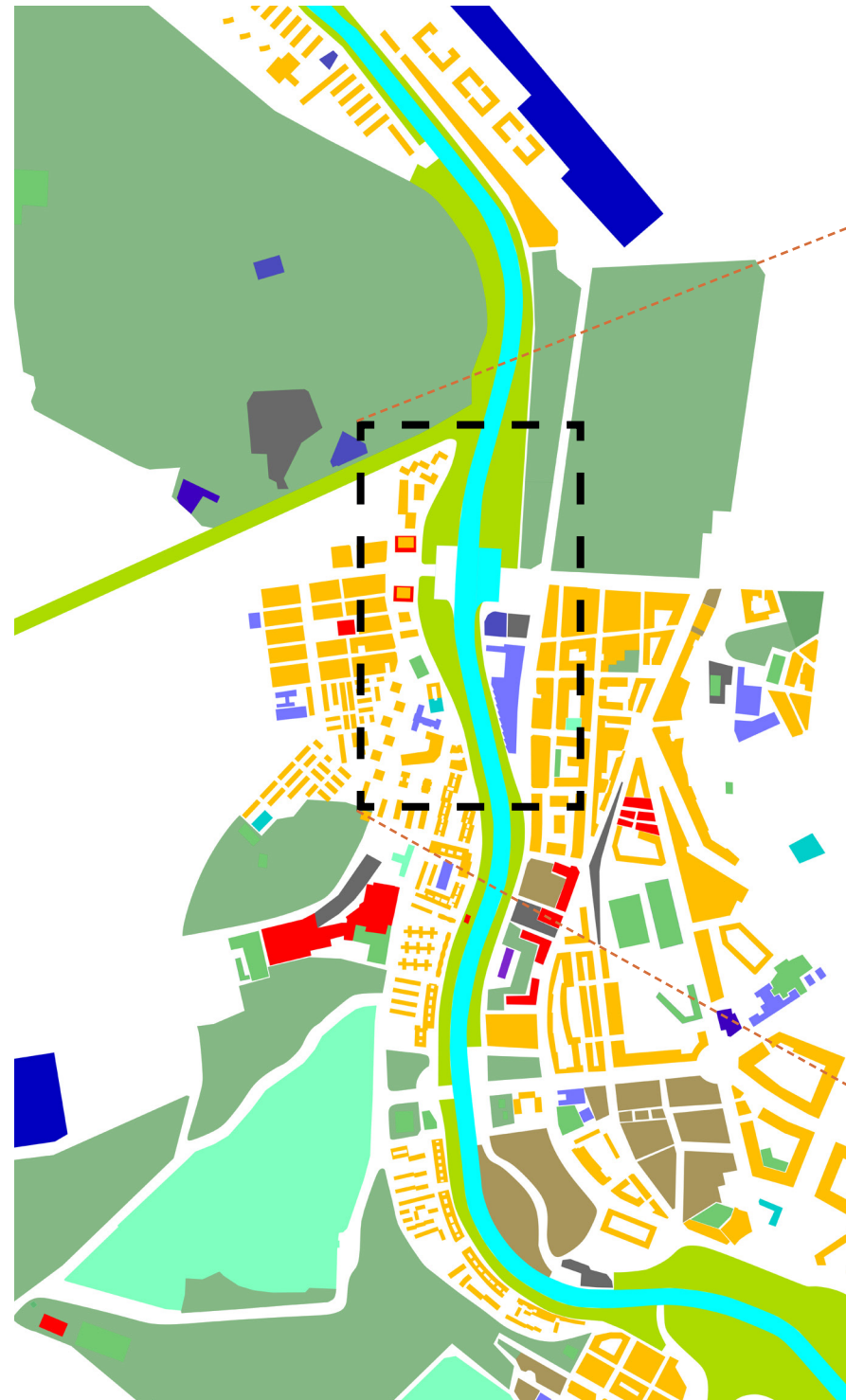
SITE ANALYSIS

SECTIONS



SITE ANALYSIS

Access and underground



Casa da Campo

Puerta del Angel
neighbourhood



Royal Palace

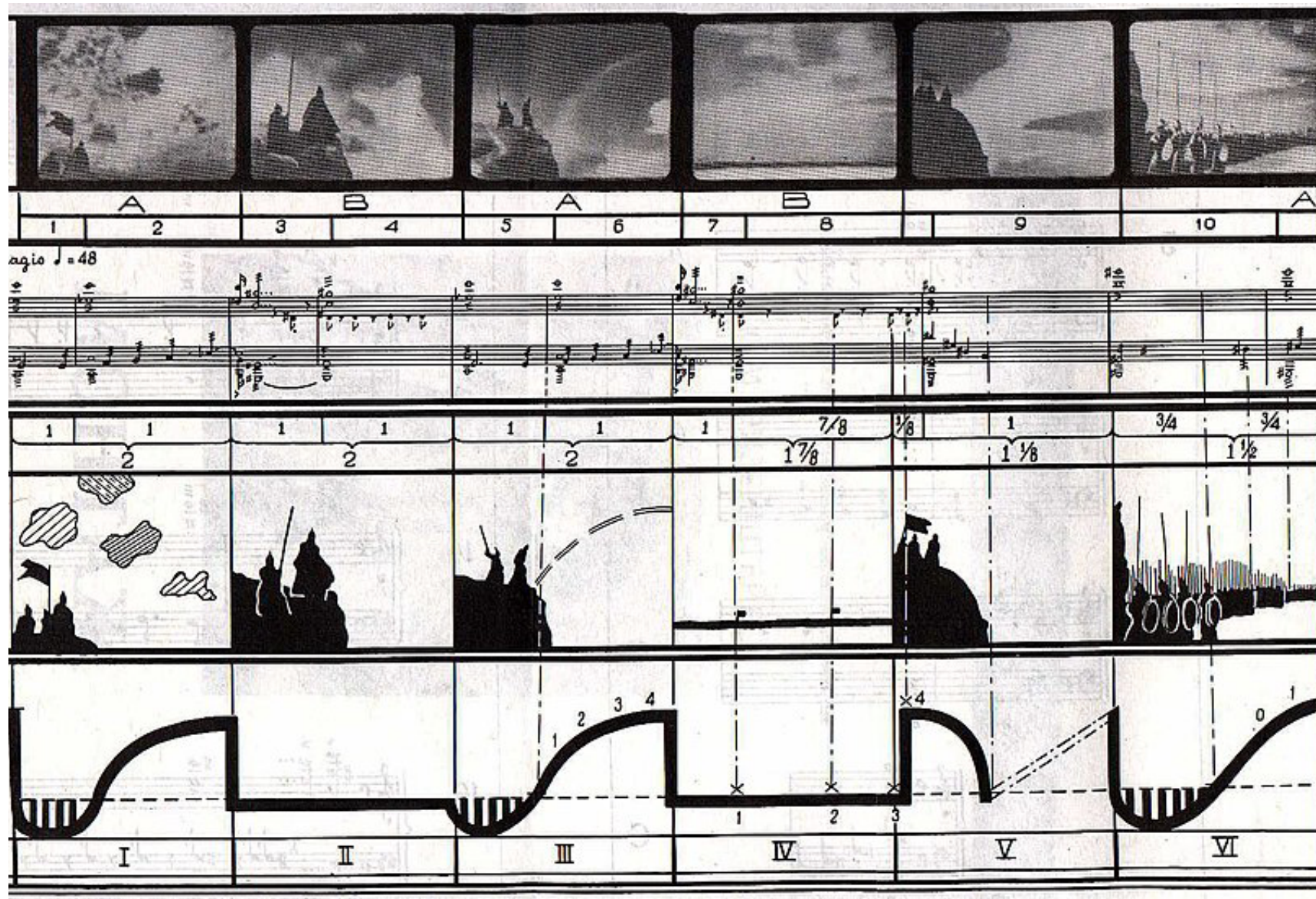
Campo del Moro

Athens Park

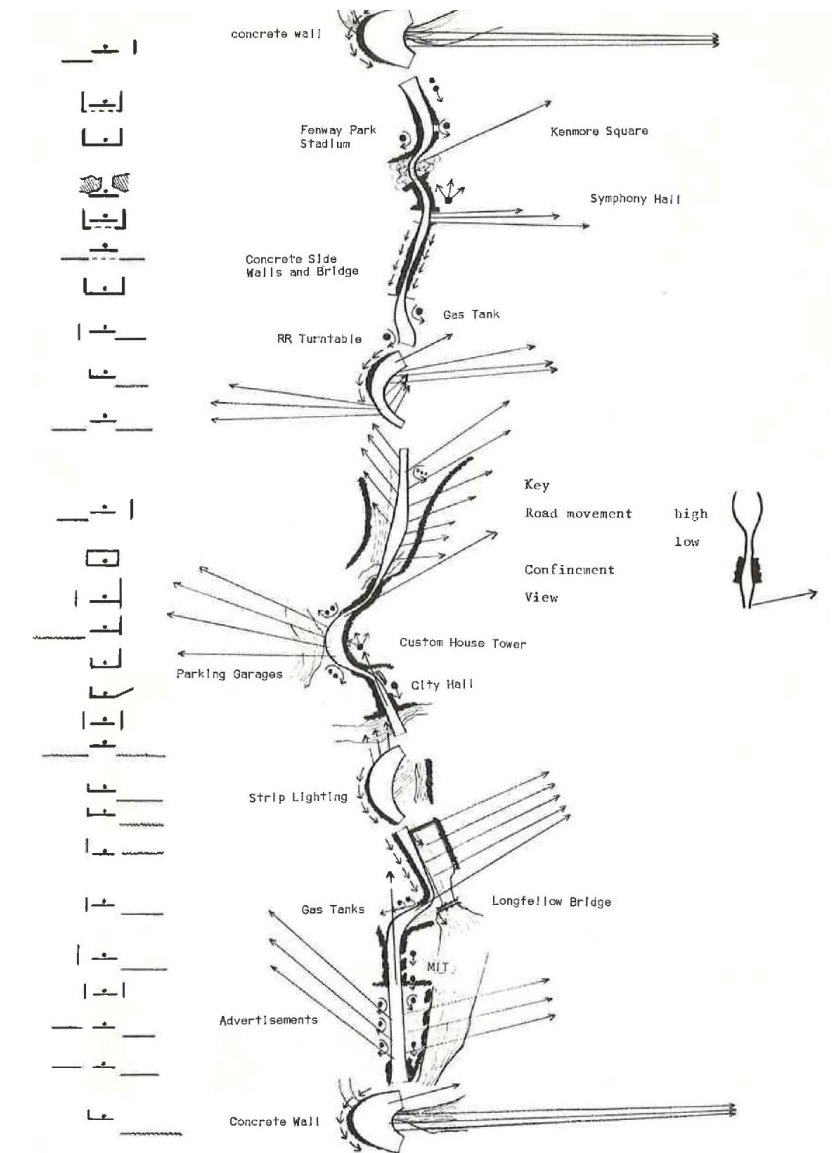
Imperial neighbourhood

SITE ANALYSIS

Notation references

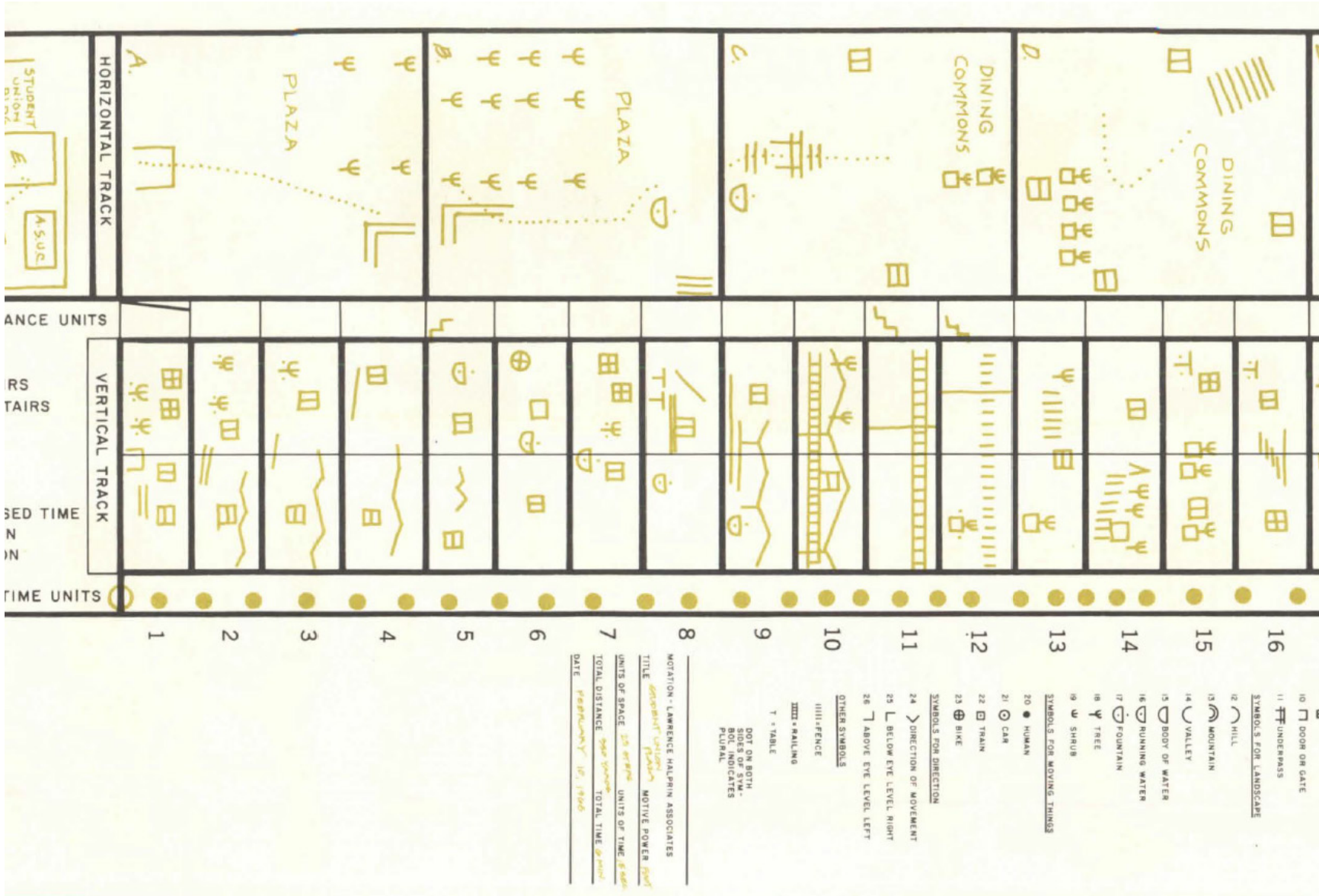


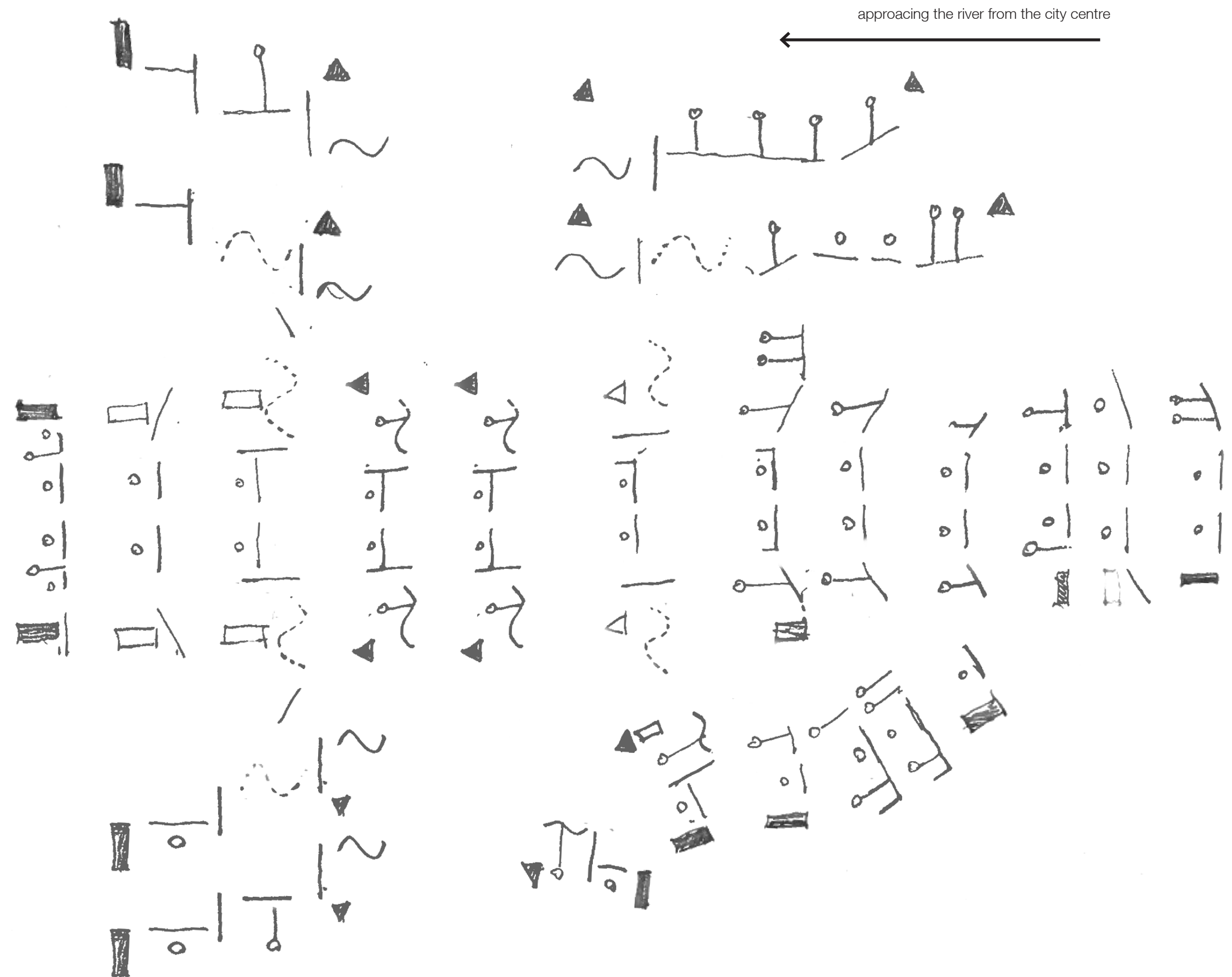
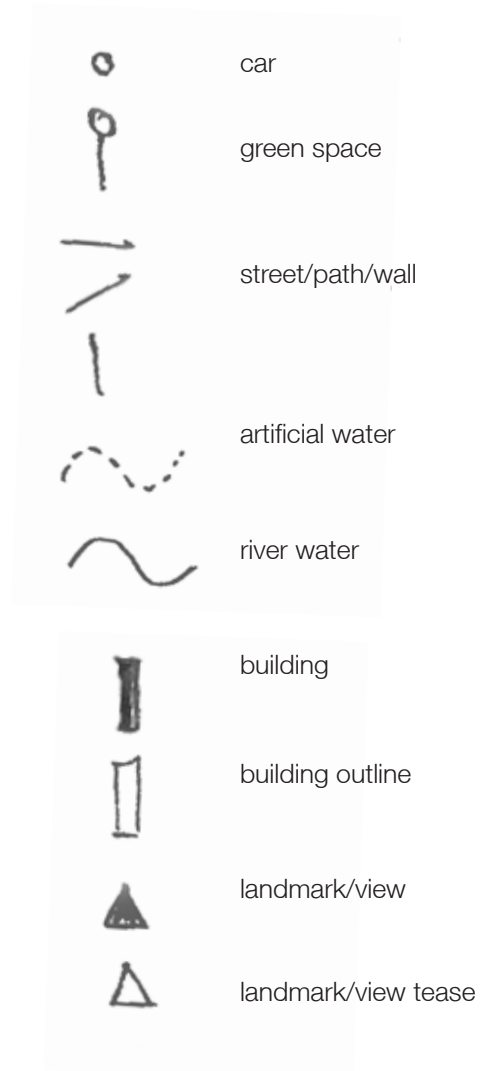
Sergei Eisenstein's notation of *Alexander Nevsky* (1938)

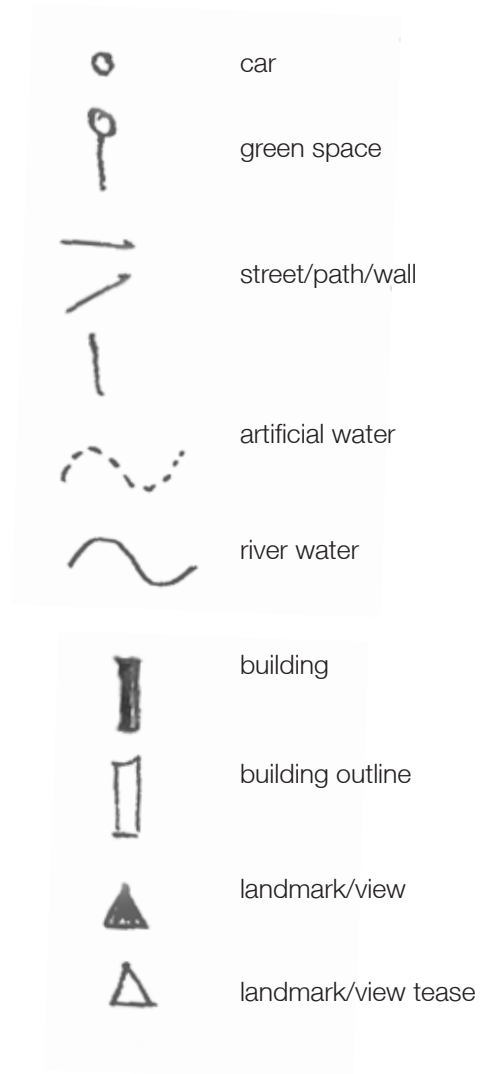


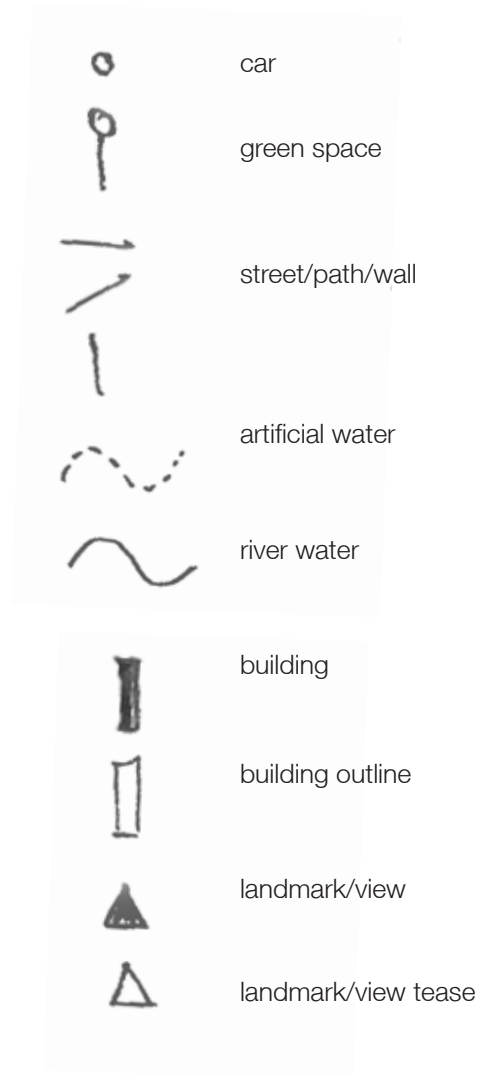
Kevin Lynch *The View from the Road* (1964)

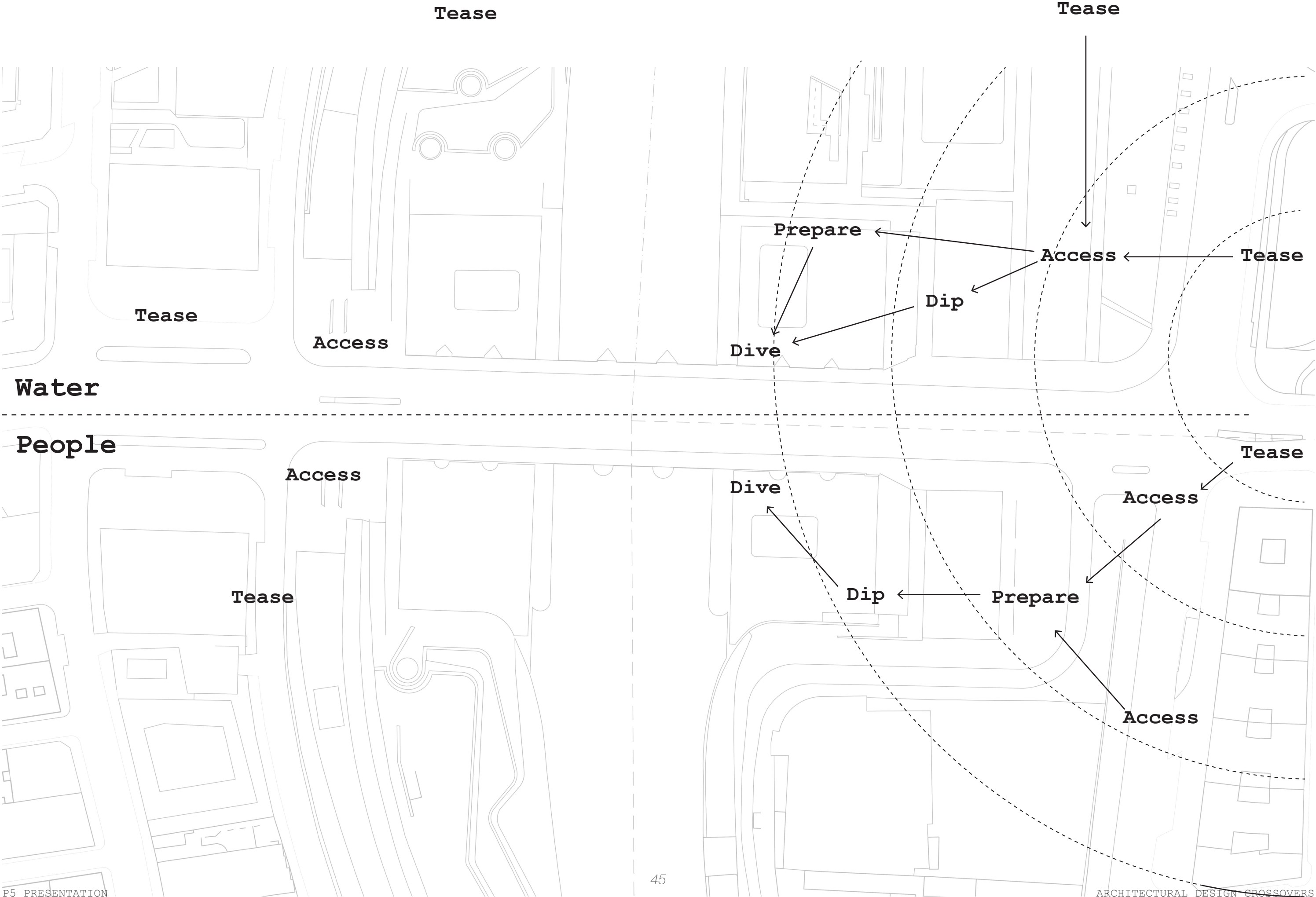
Motation

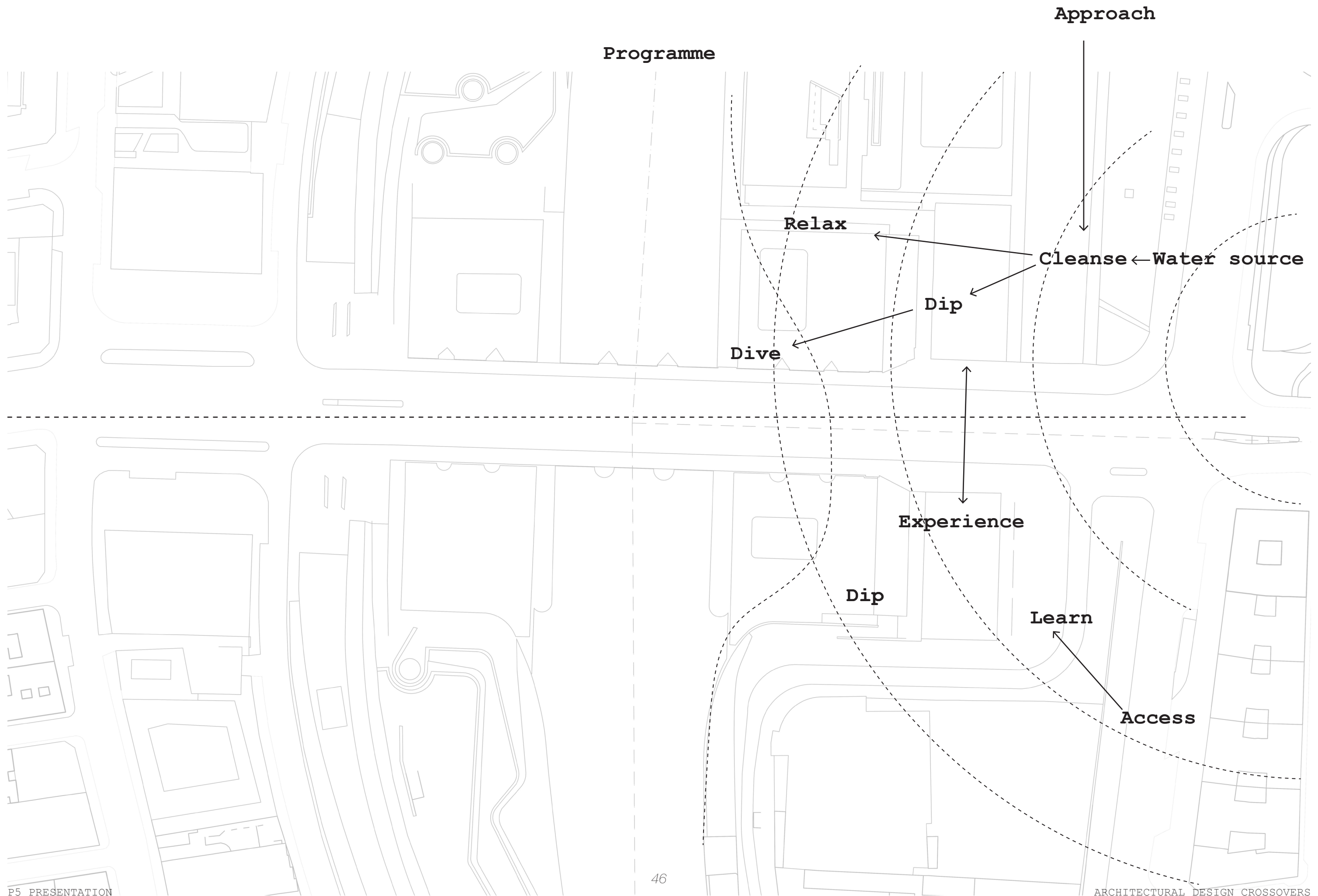












The diagram shows a simple line drawing of a house with a chimney on the left side. A dashed line starts from the bottom left, goes up and to the right, then down and to the right, and finally up and to the right, ending near the chimney. A solid line starts from the bottom left, goes up and to the right, then down and to the right, and finally up and to the right, ending near the chimney. The dashed line is positioned to the left of the solid line.

Wa

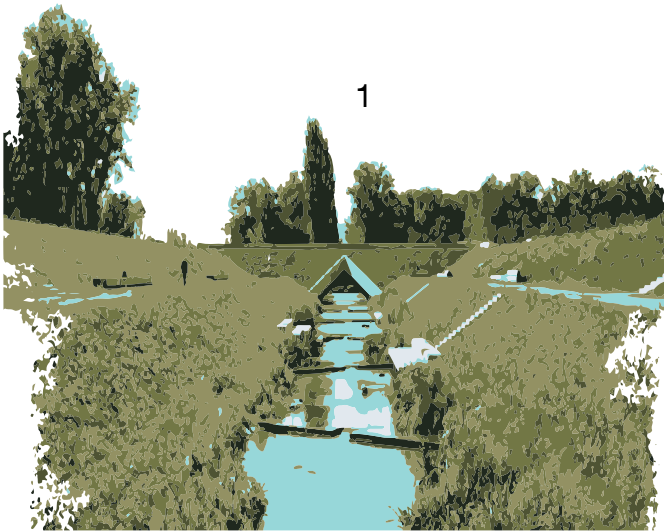


Acc

Stormwater tank



Channeled filtering



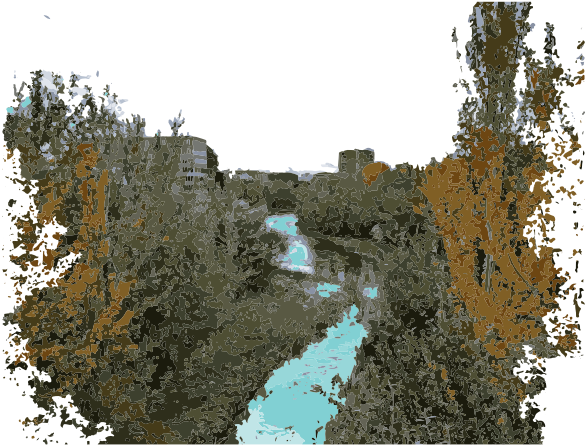
Wetlands/ River park



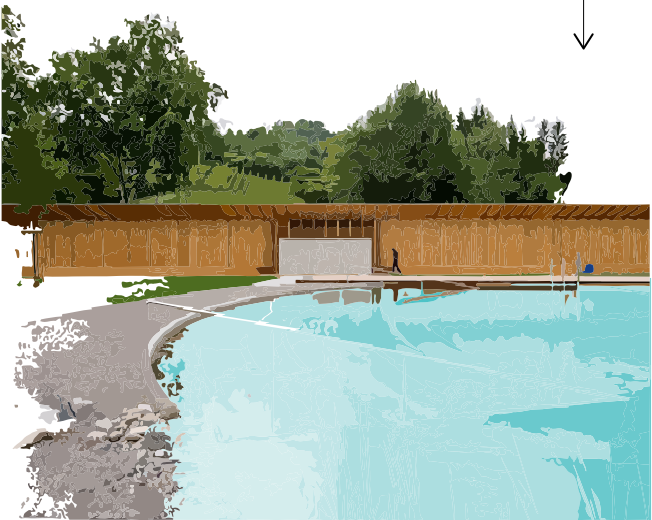
Manzanares Centre



Manzanares



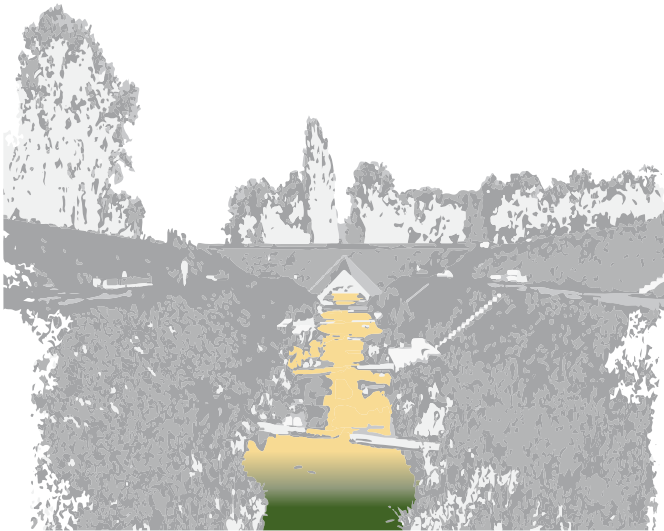
Natural filter pools



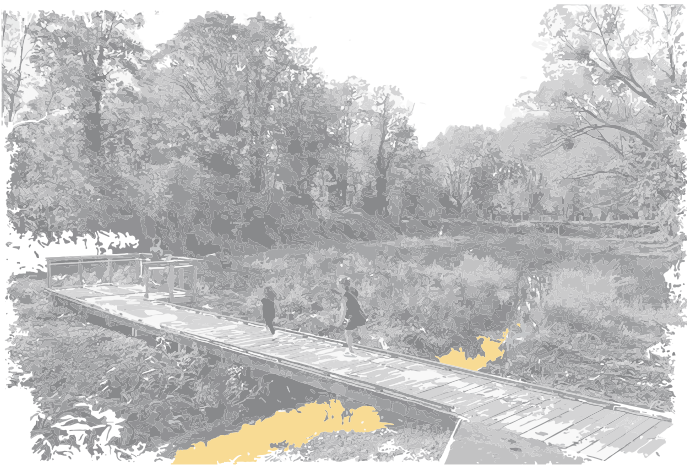
Stormwater tank



Channeled filtering



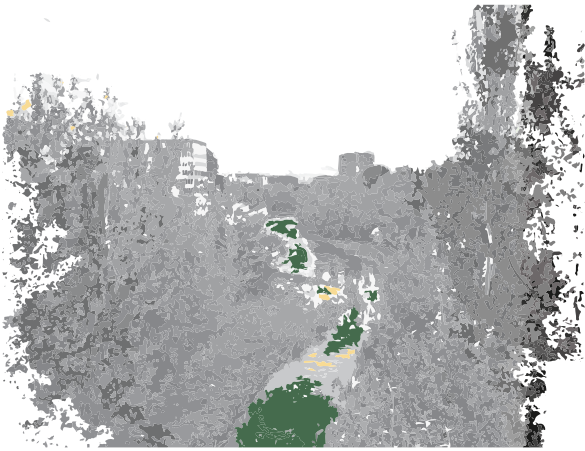
Wetlands/ River park



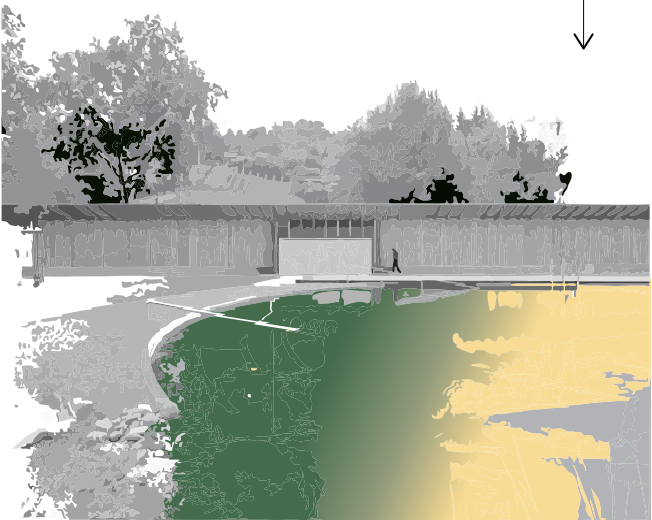
Manzanares Centre



Manzanares



Natural filter pools



WATER CYCLE

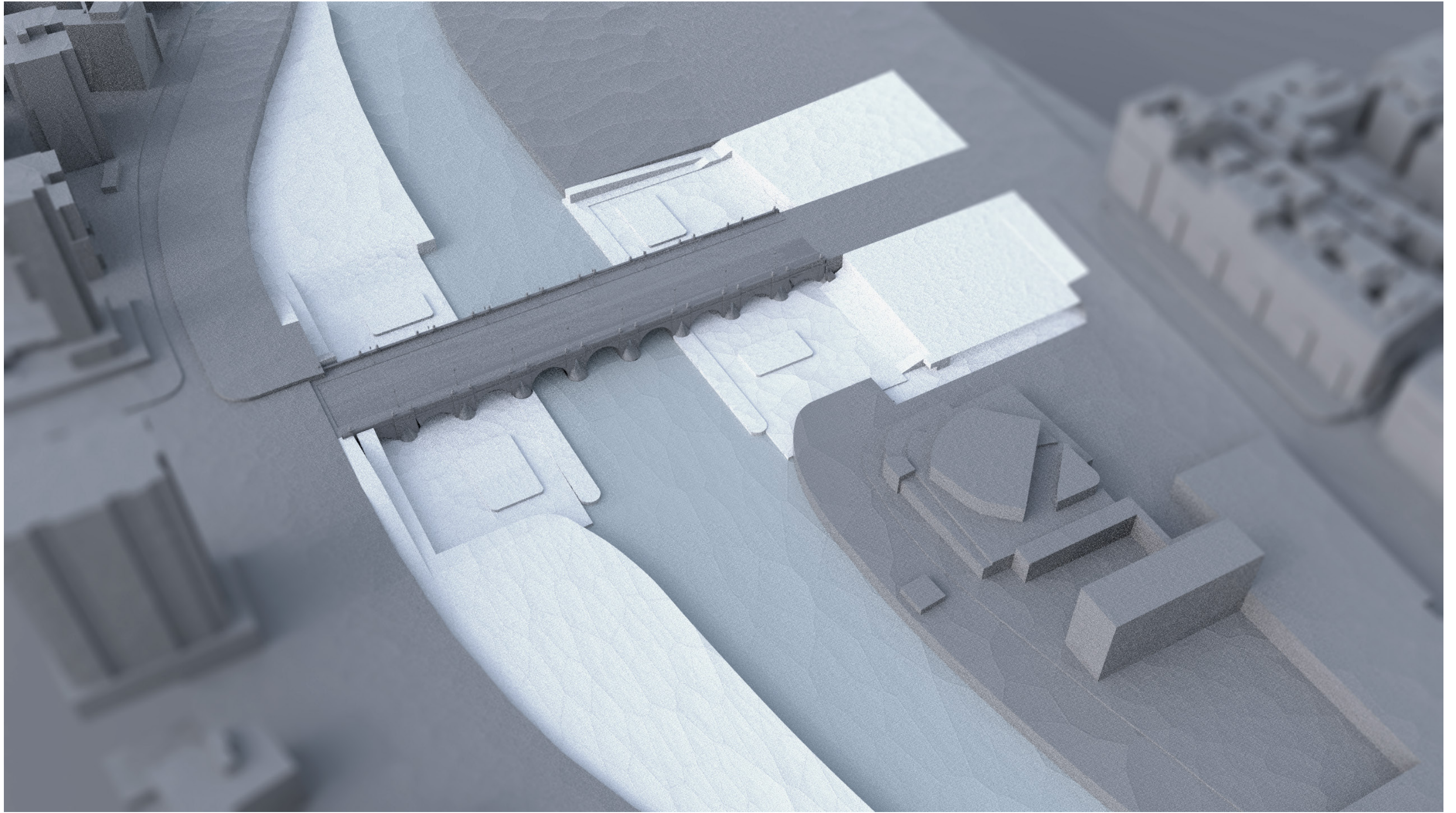
EEA Bathing quality levels



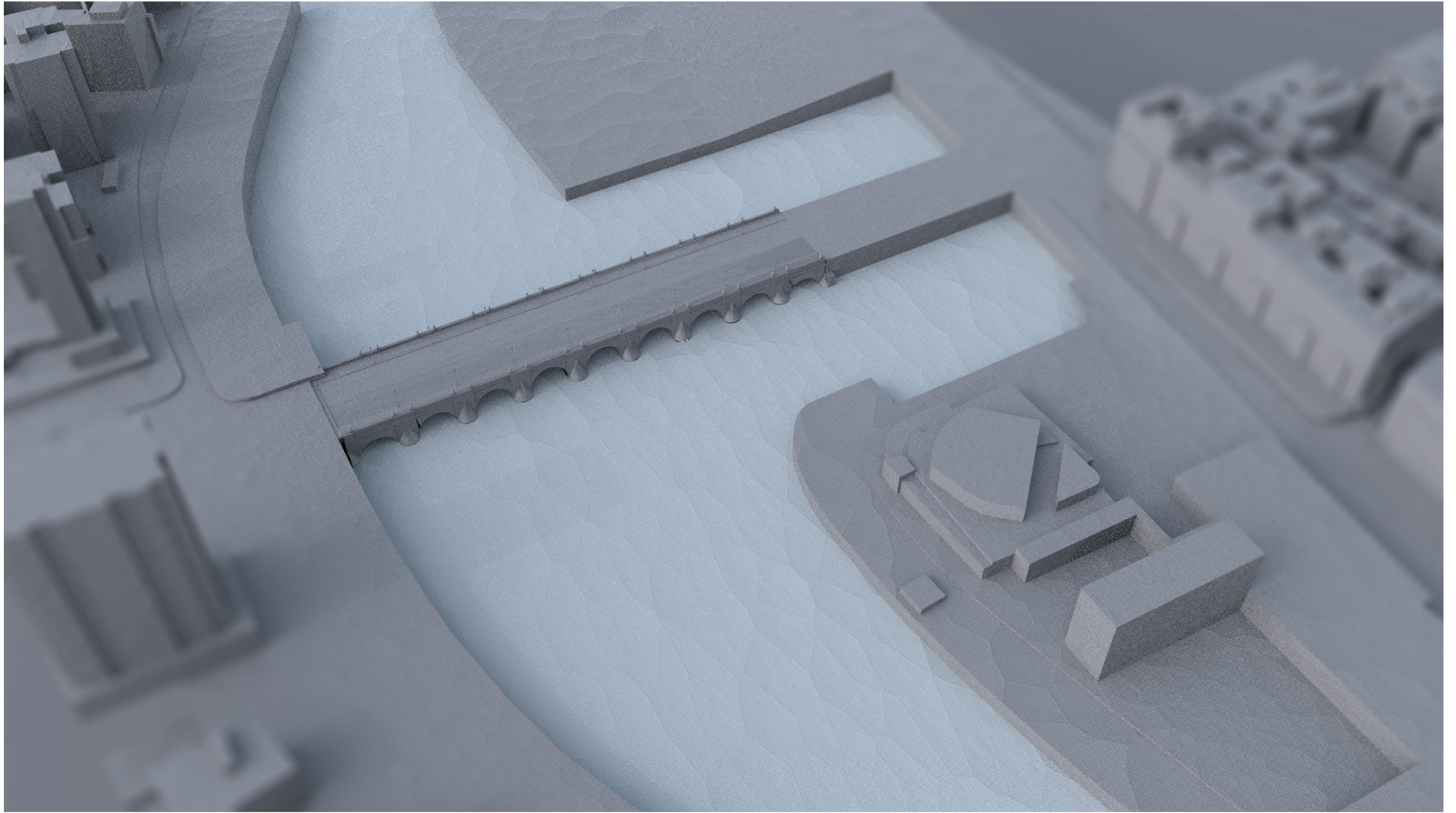
IV

Allow water

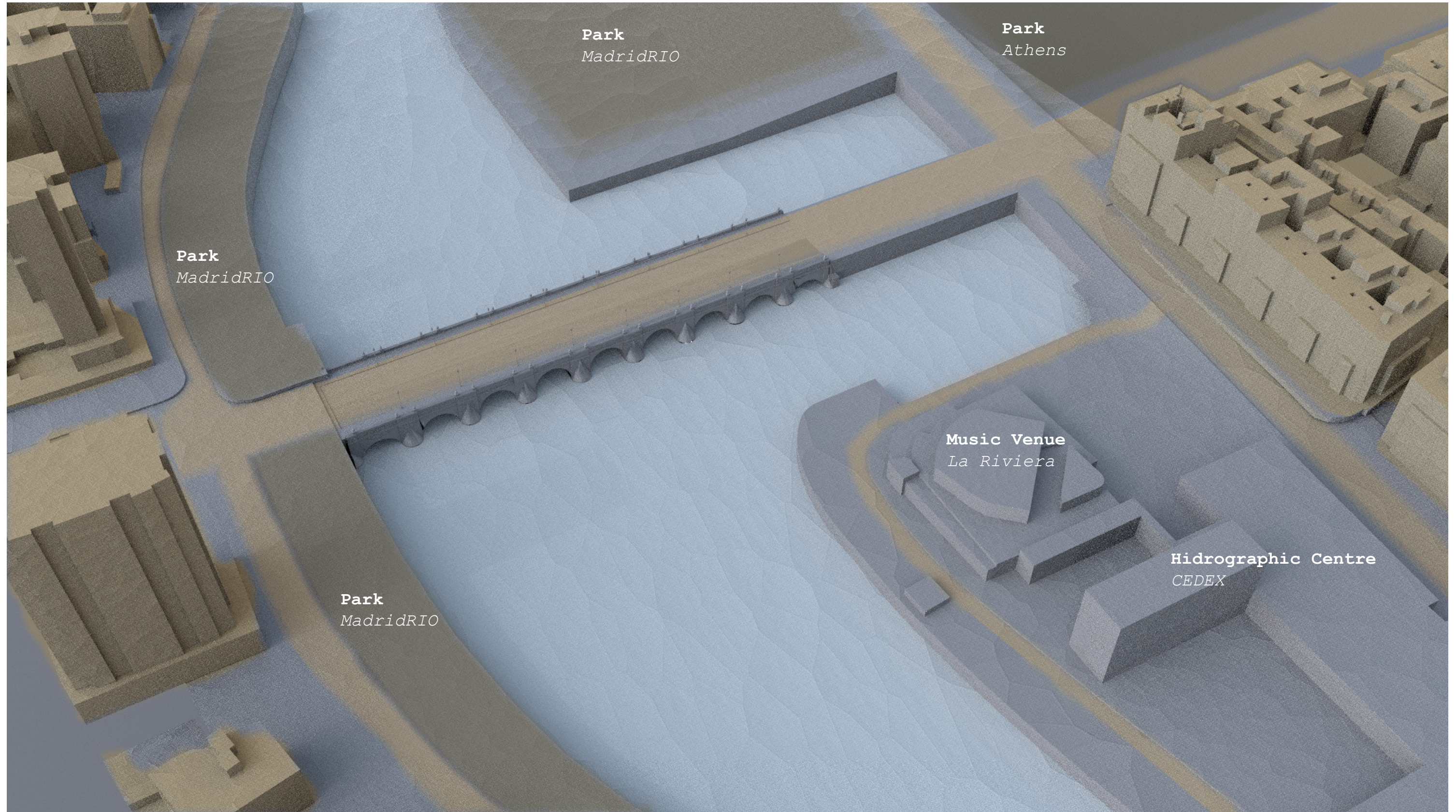
SITE ANALYSIS



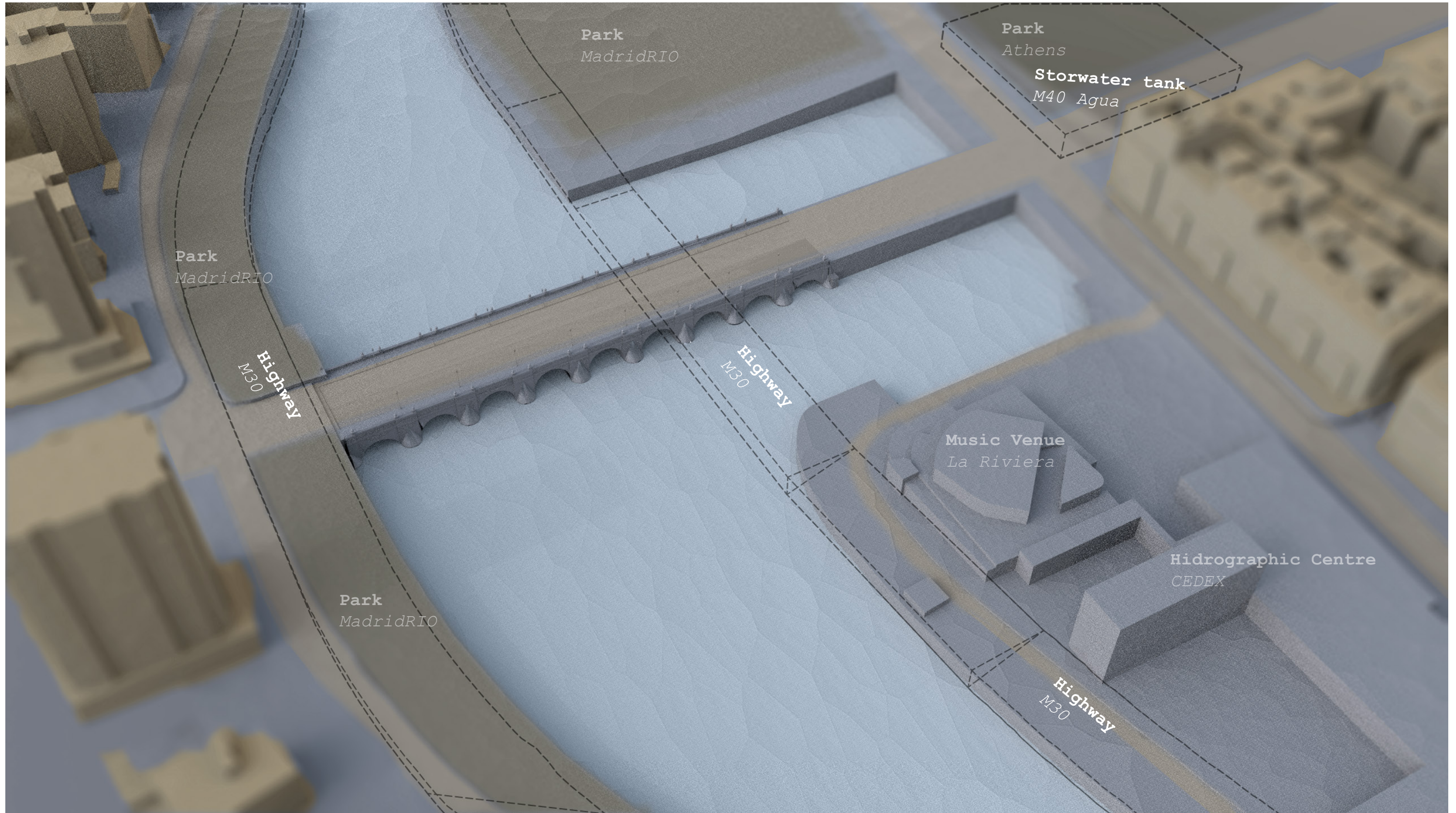
SITE ANALYSIS



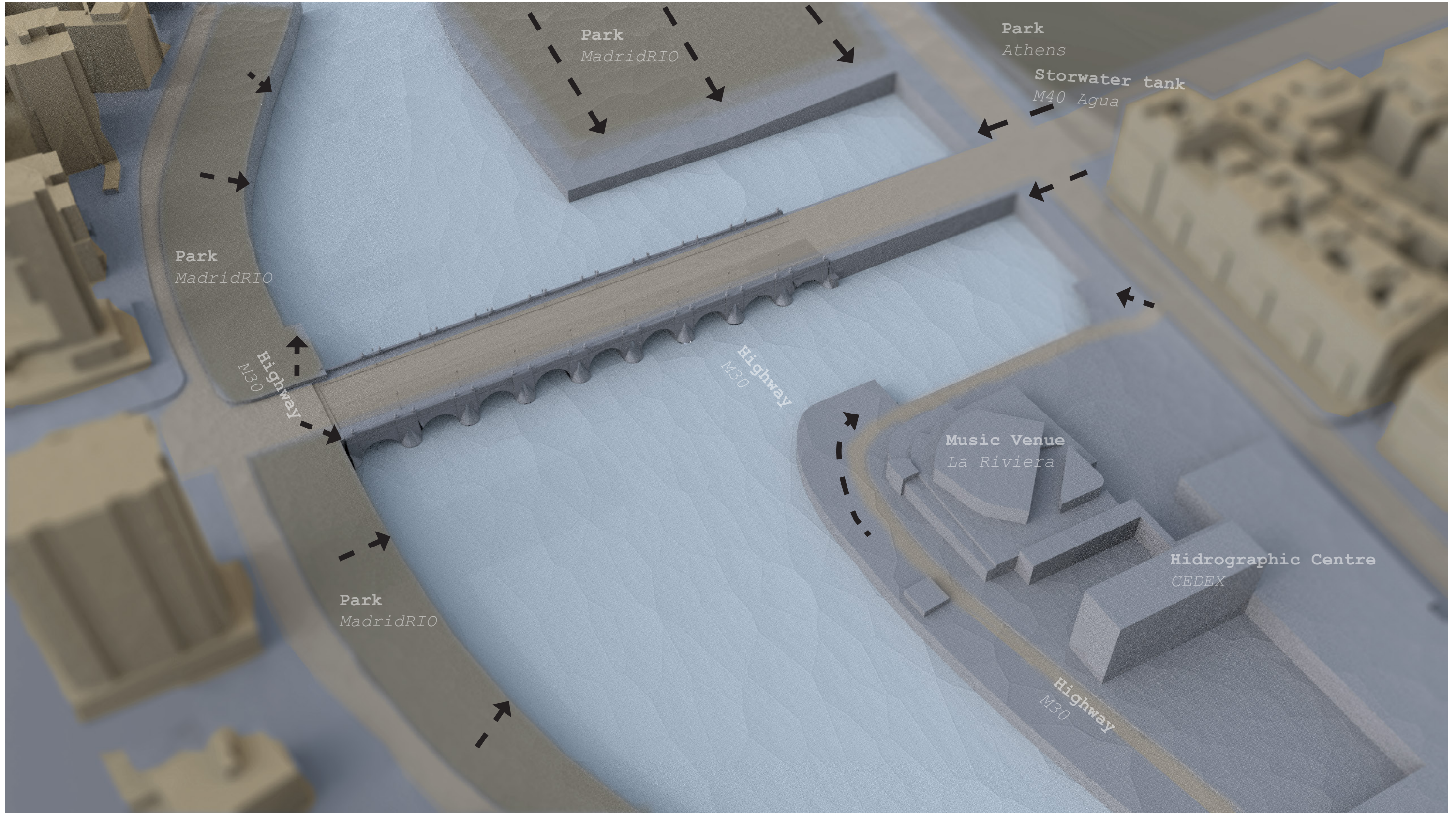
SITE ANALYSIS



SITE ANALYSIS



SITE ANALYSIS



“Give every sacred site a place, or a sequence of places, where people can relax, enjoy themselves, and feel the presence of the place. And above all, shield the approach to the site, so that it can only be approached on foot, and through a series of gateways and thresholds which reveal it gradually”

sacred sites



acts of preservation

- Christopher Alexander, *A pattern language*

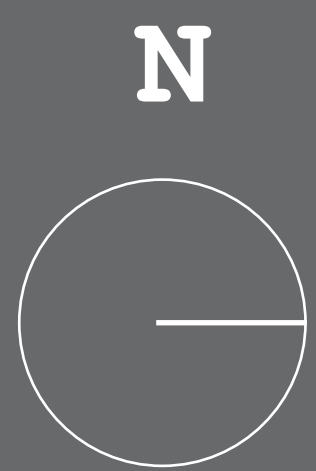








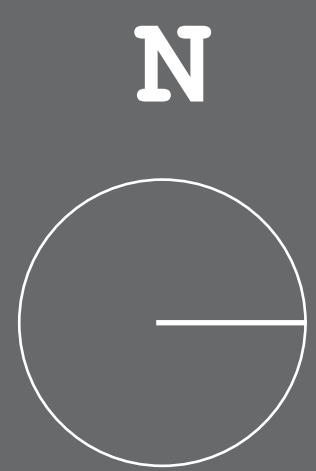




Ground floor plan
Swimming Pools

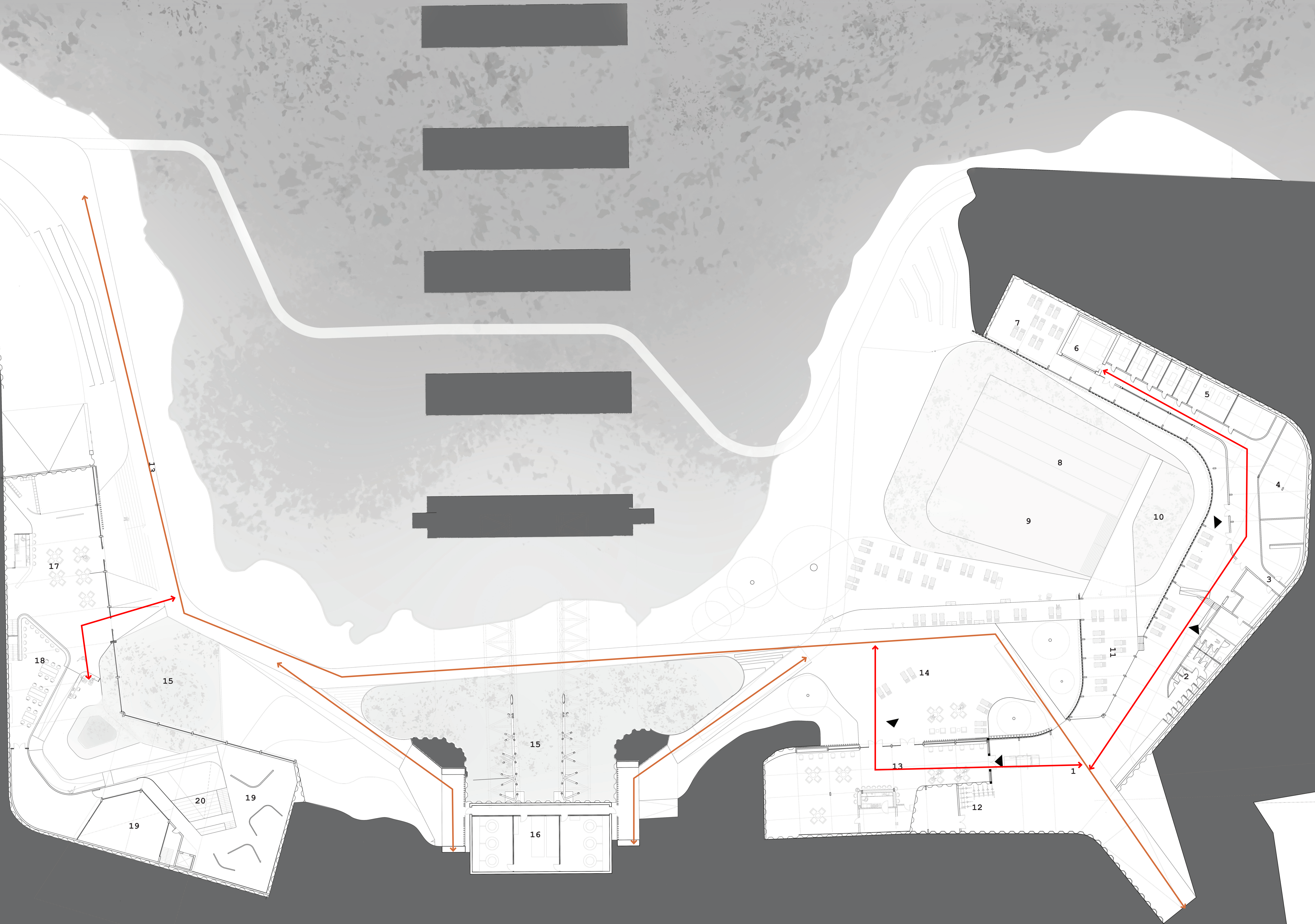
- 1. Access
- 2. Changing rooms/
- 3. Lockers
- 4. Staff area
- 5. Relaxation rooms
- 6. Sauna
- 7. Lounge
- 8. Professional swimmers
- 9. General swimmers
- 10. Childrens' pool
- 11. Sunbathing deck
- 12. Bike storage/ resupply
- 13. Cafe
- 14. Terrace
- 15. Pond
- 16. Water management facility
- 17. Museum cafe
- 18. Working area
- 19. Exhibition space
- 20. Informal auditorium





Ground floor plan
Swimming Pools

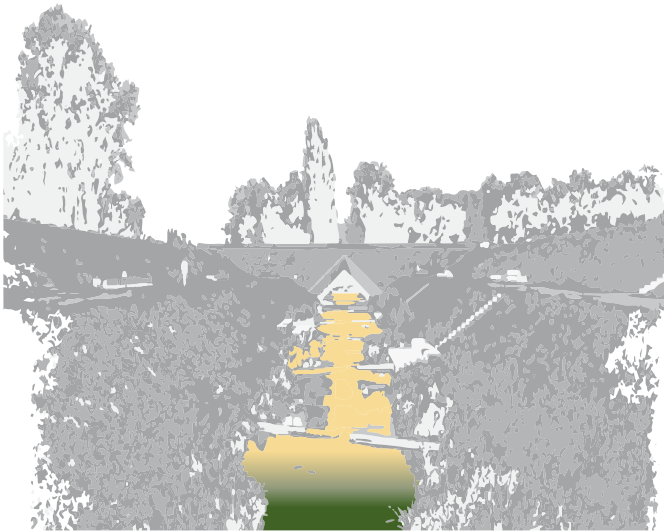
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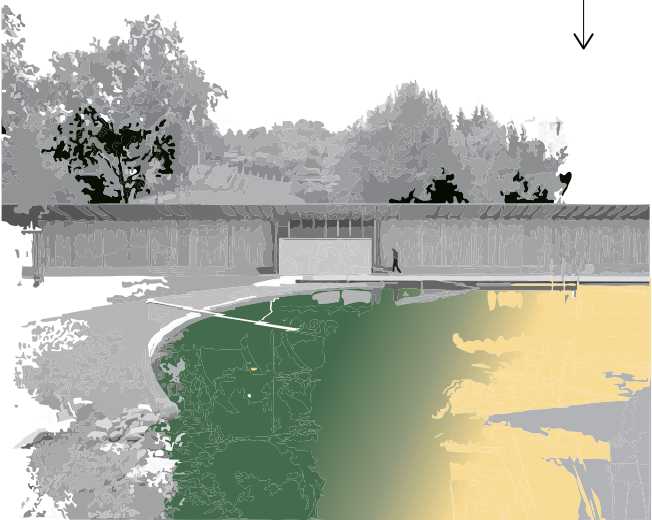
Stormwater tank



Channeled filtering



Natural filter pools



WATER CYCLE
Concept

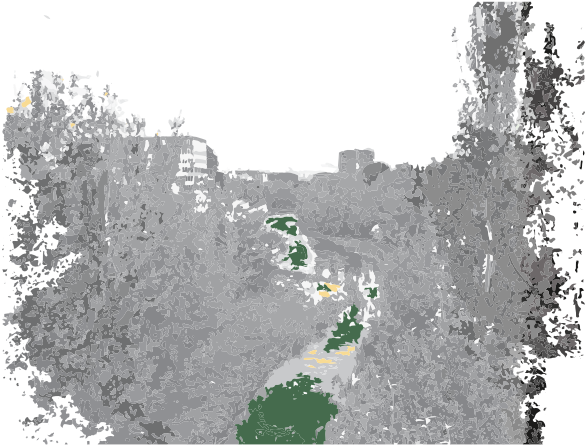
Wetlands/ River park



Manzanares Centre



Manzanares

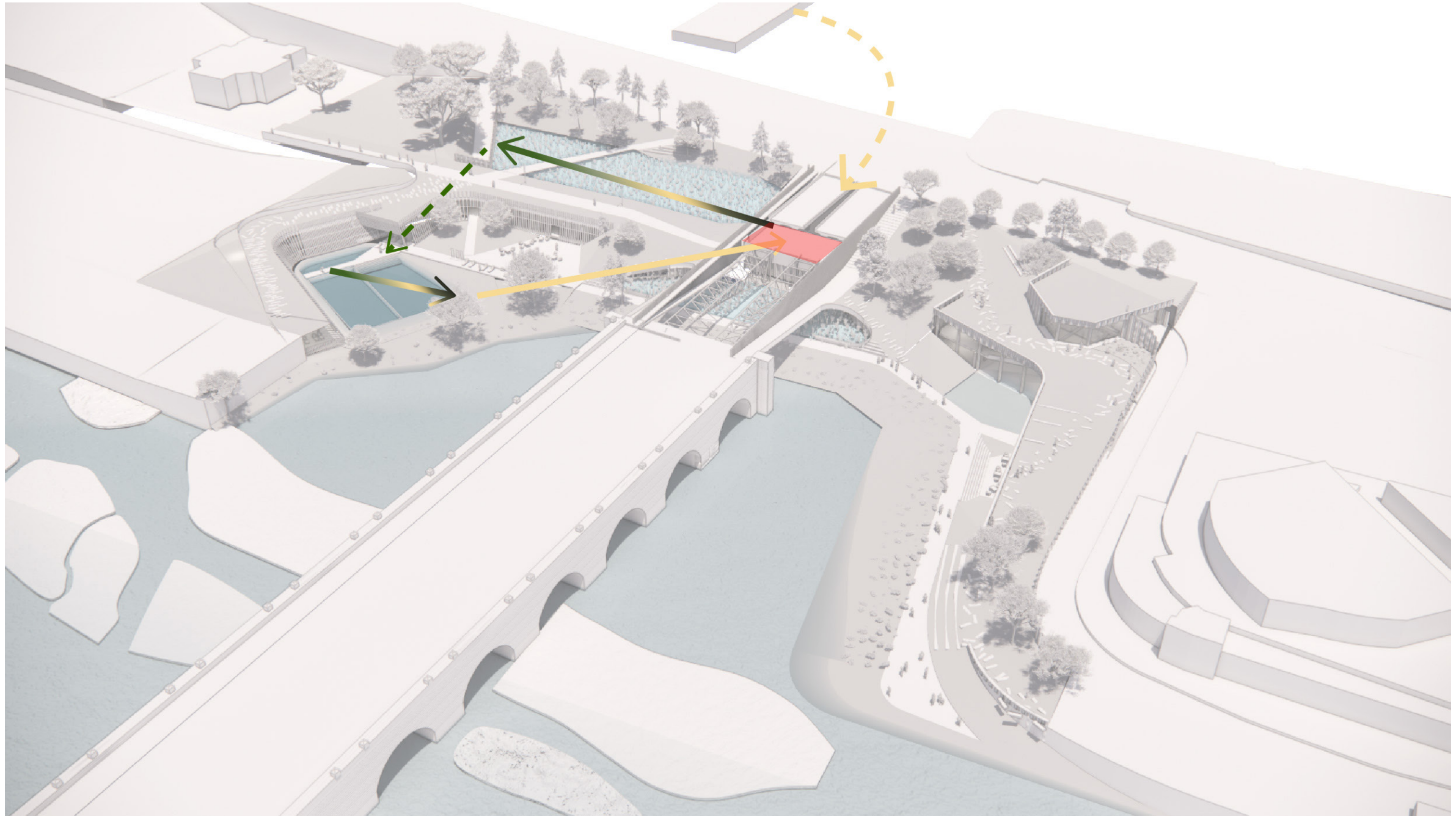


EEA Bathing quality levels



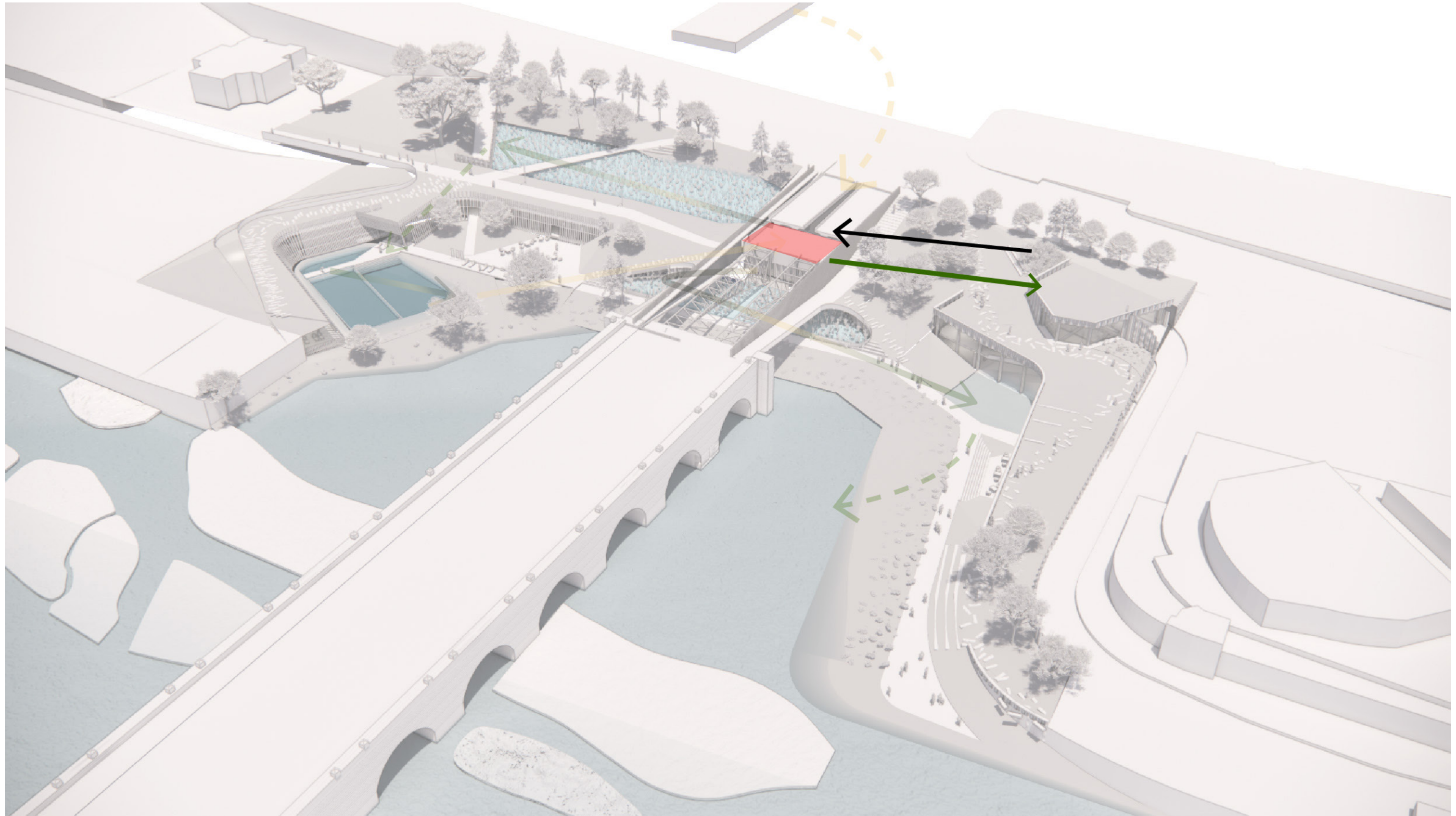
WATER CYCLES

Swimming pools



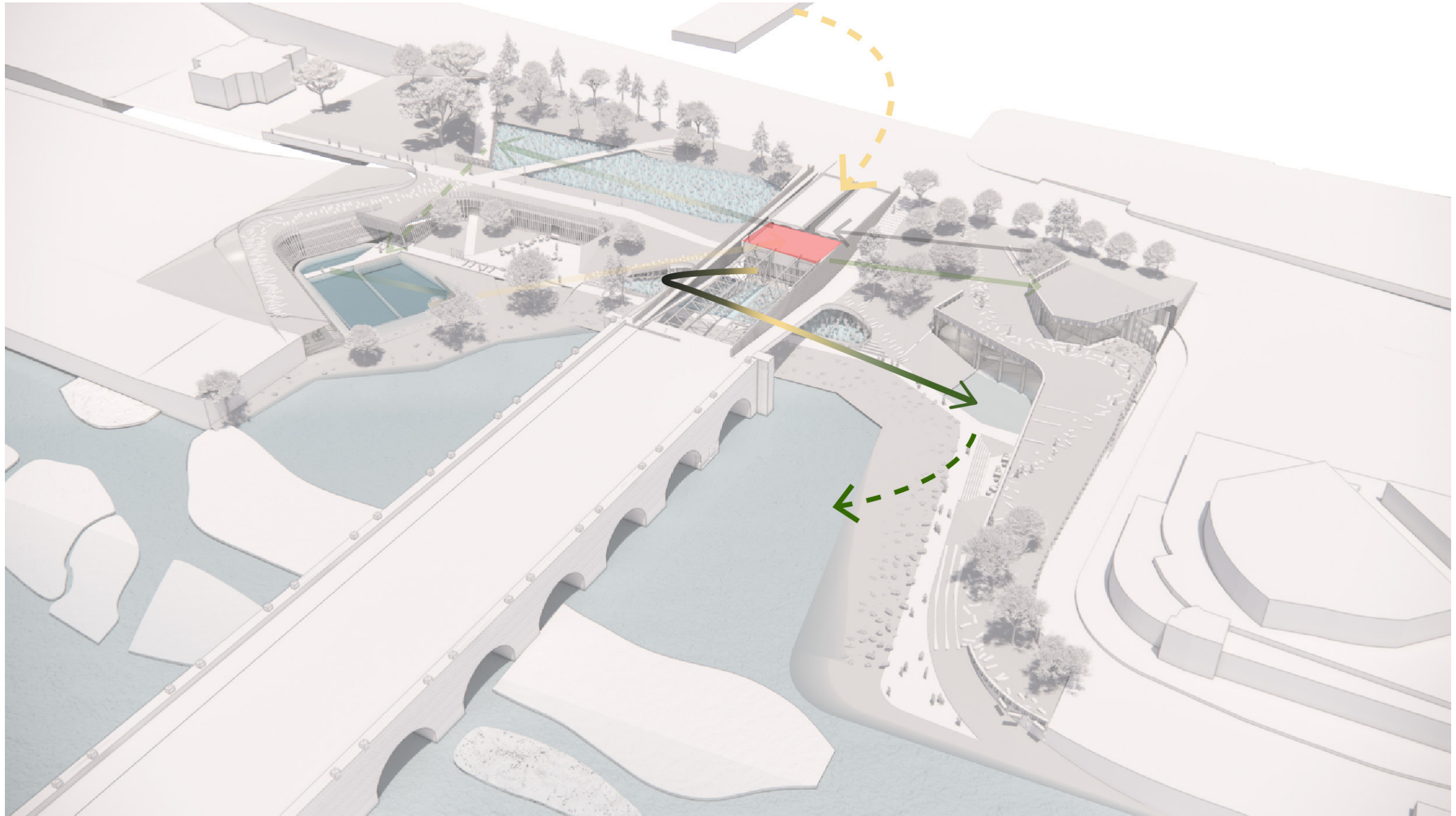
WATER CYCLES

Museum



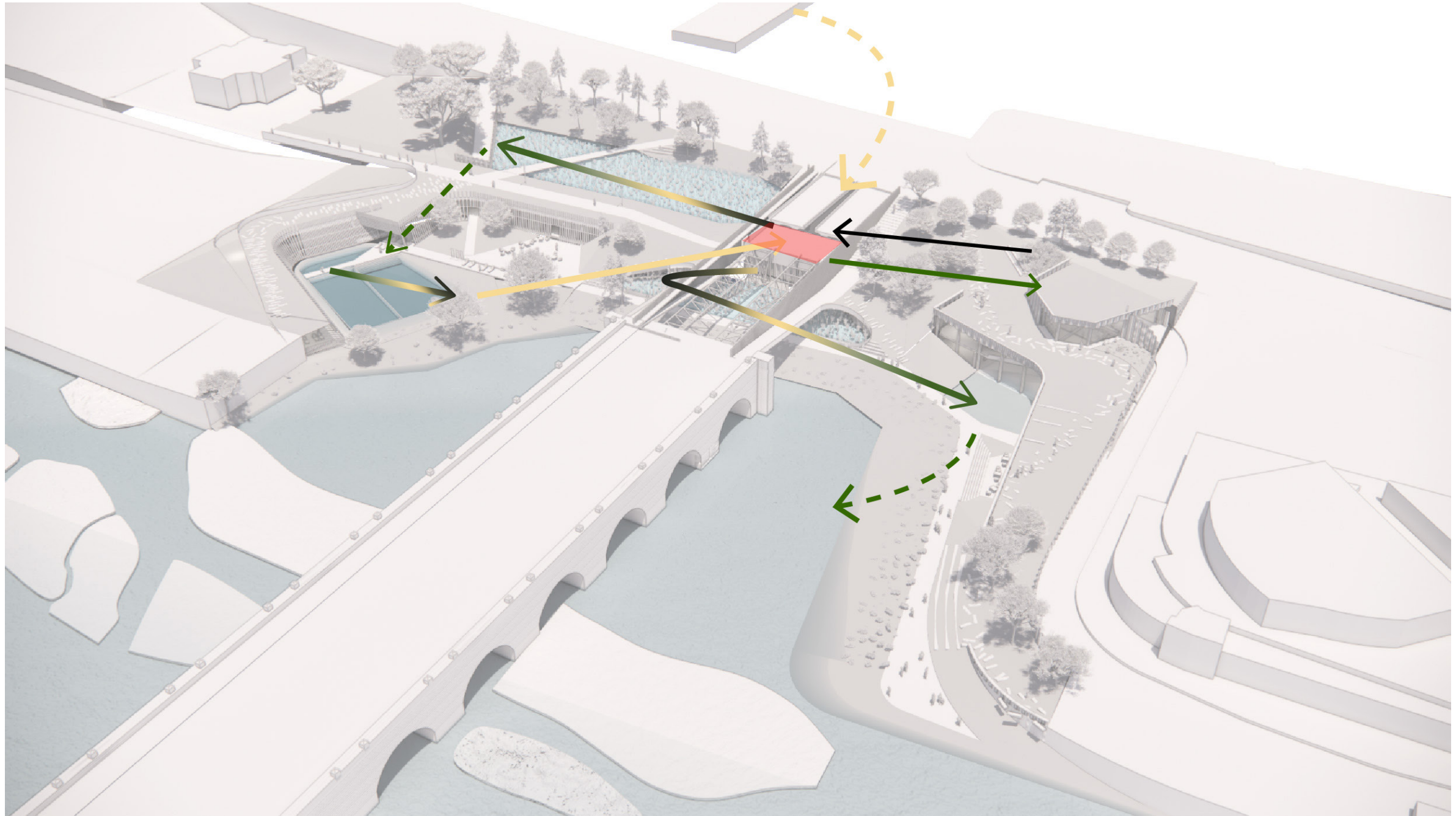
WATER CYCLES

Manzanares

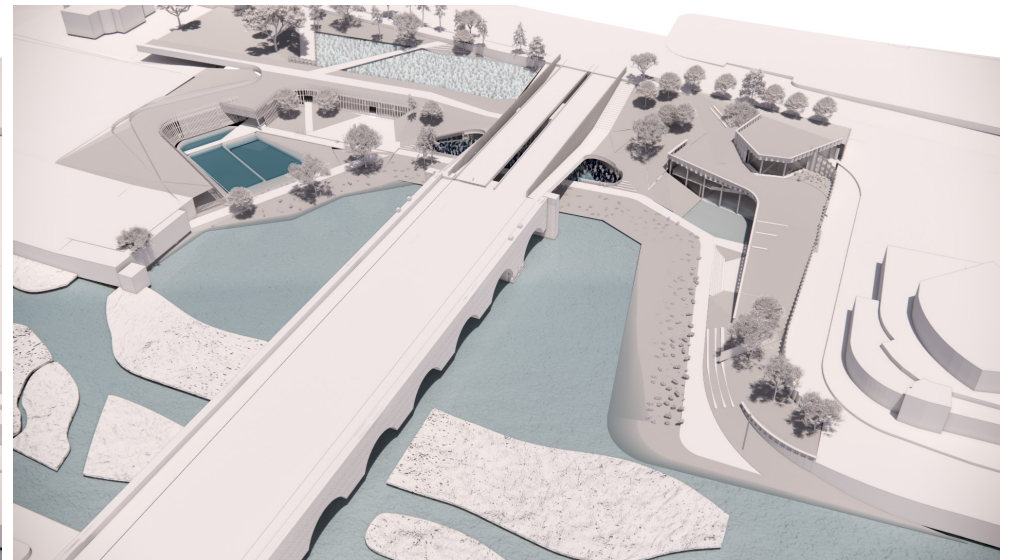
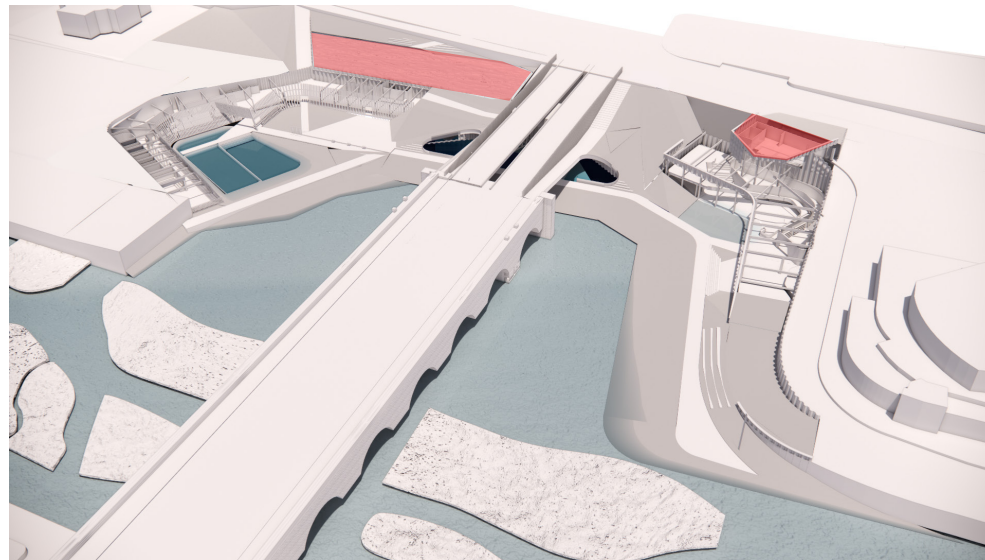
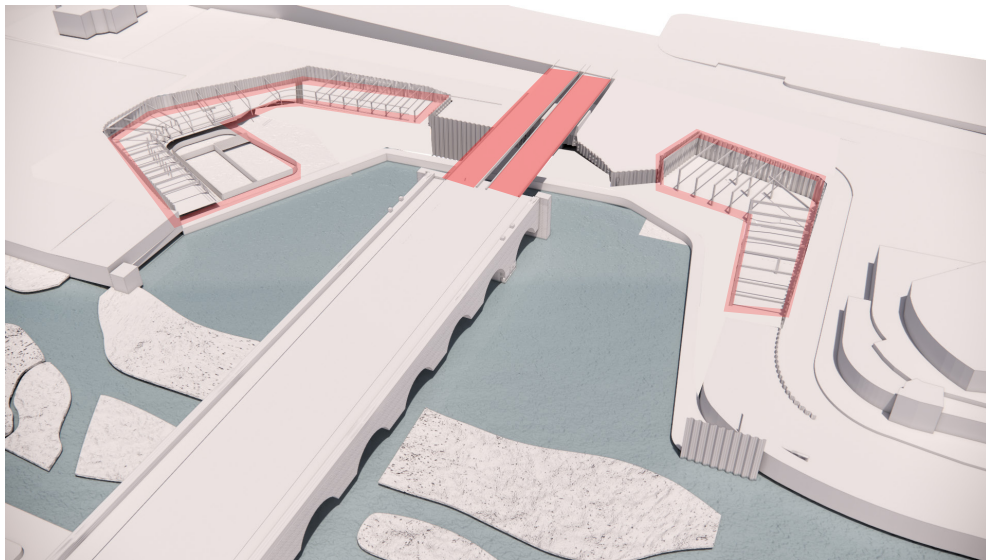
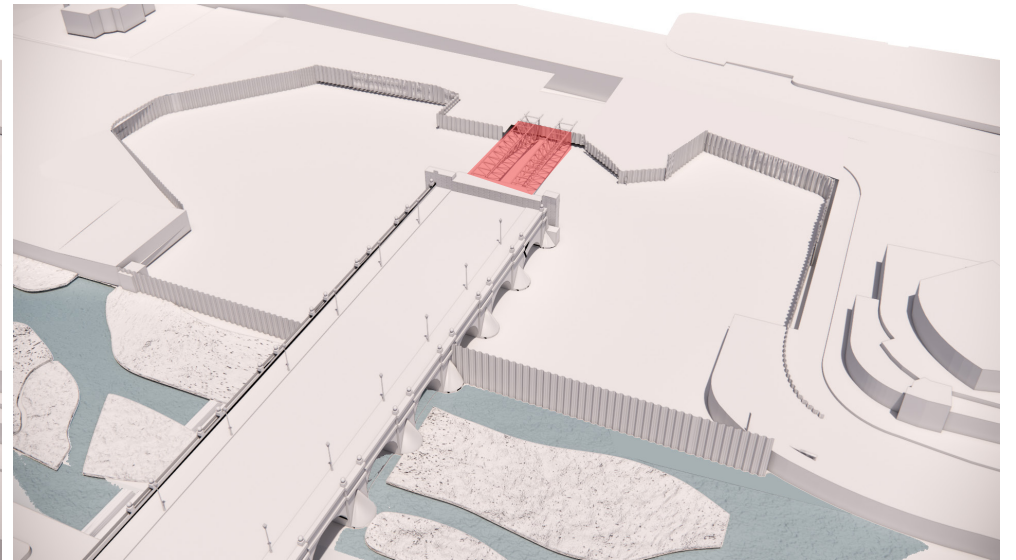
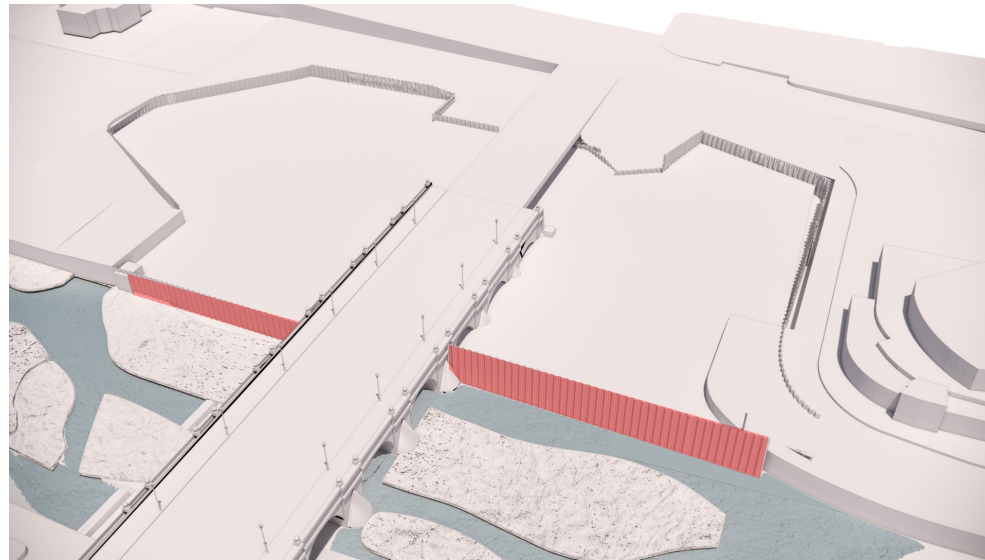
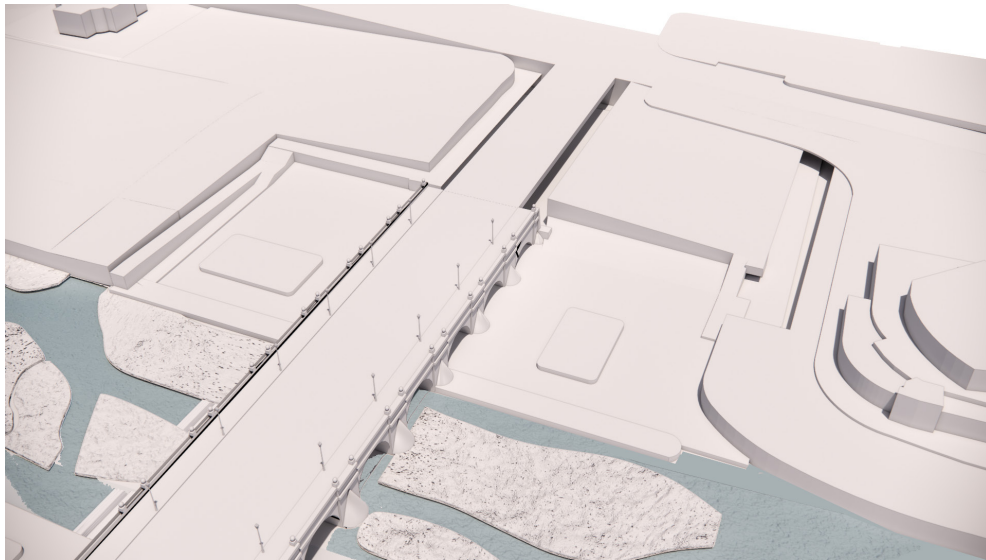


WATER CYCLES

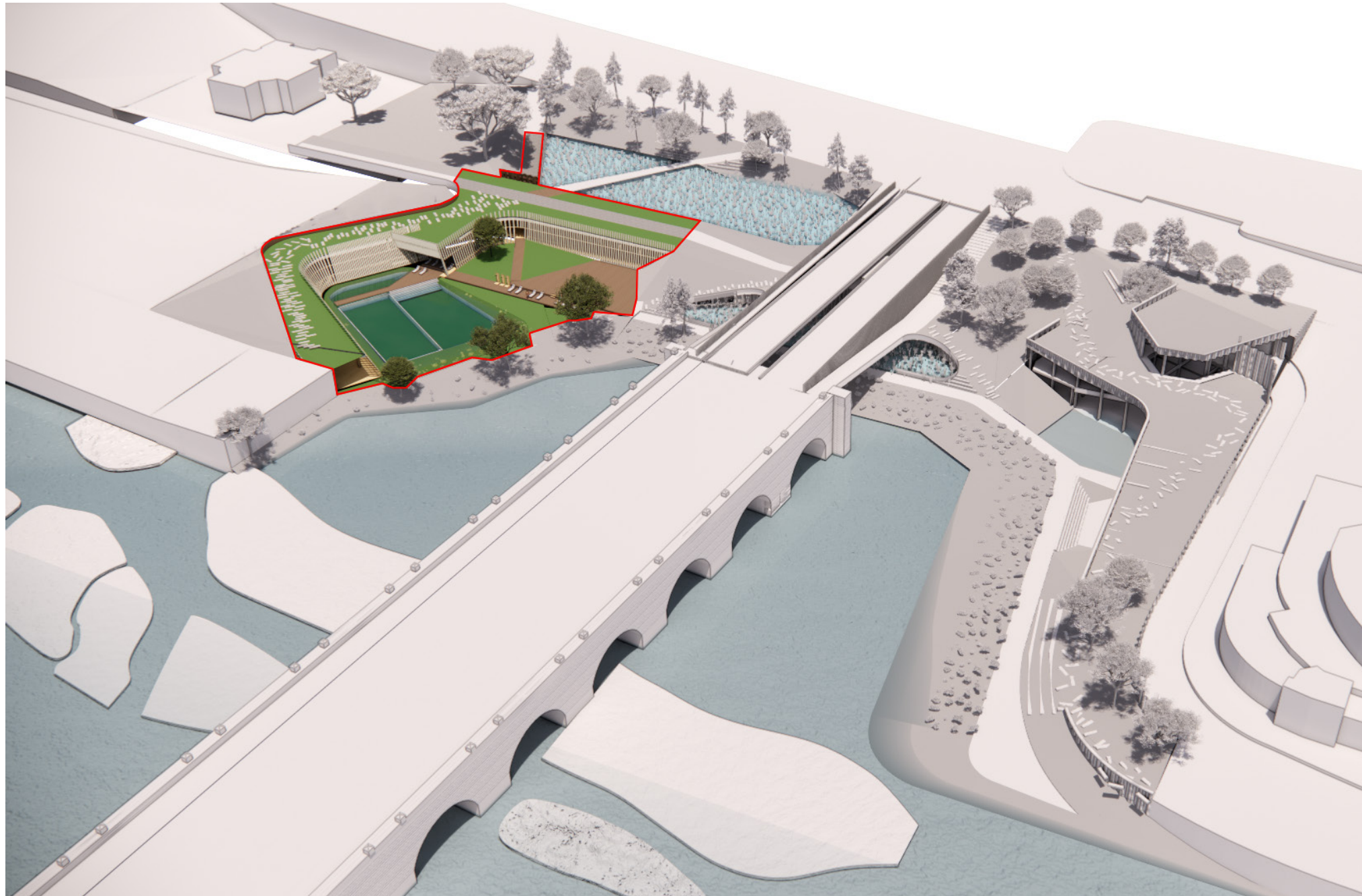
Overview

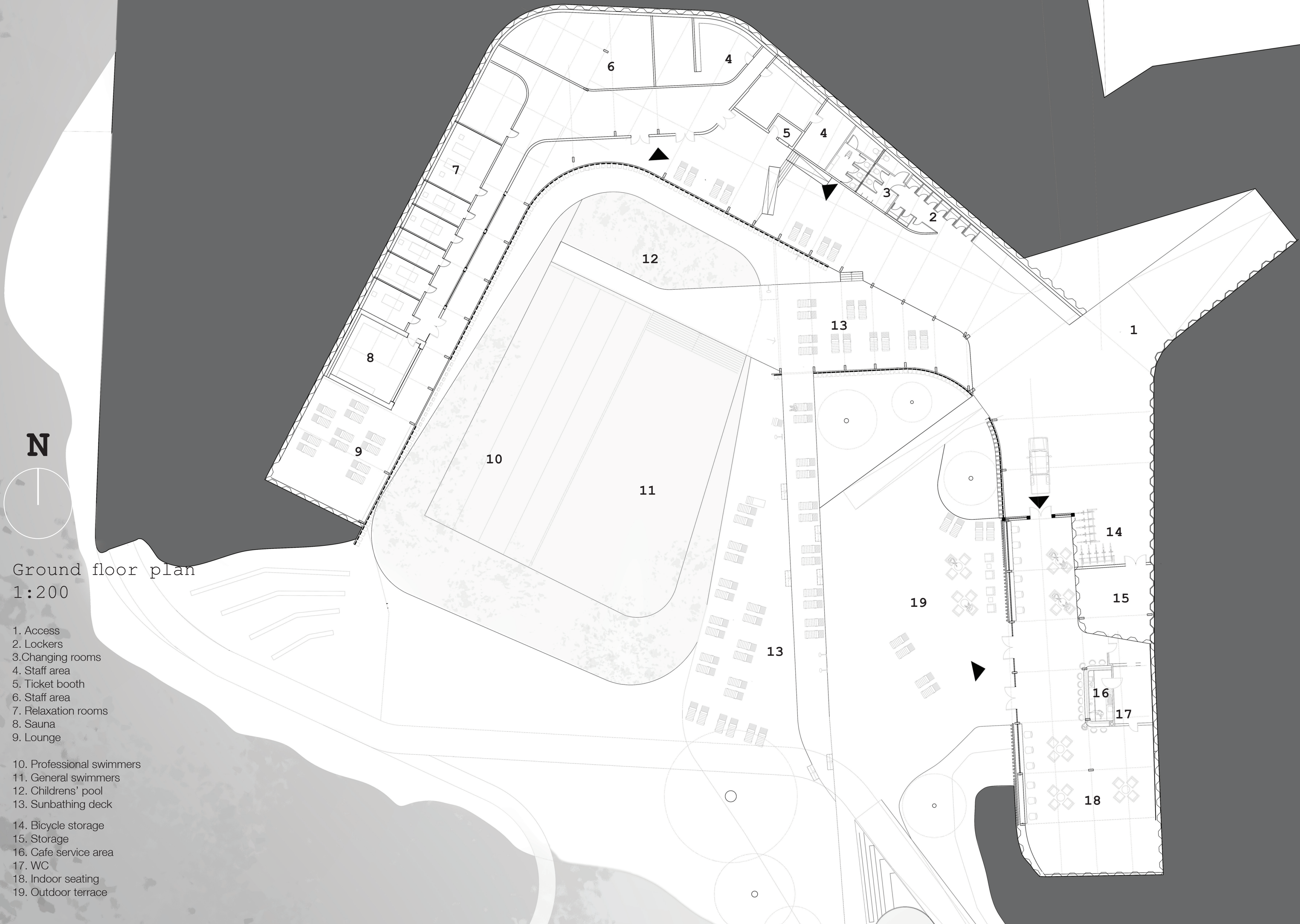


Construction sequence



Swimming pond





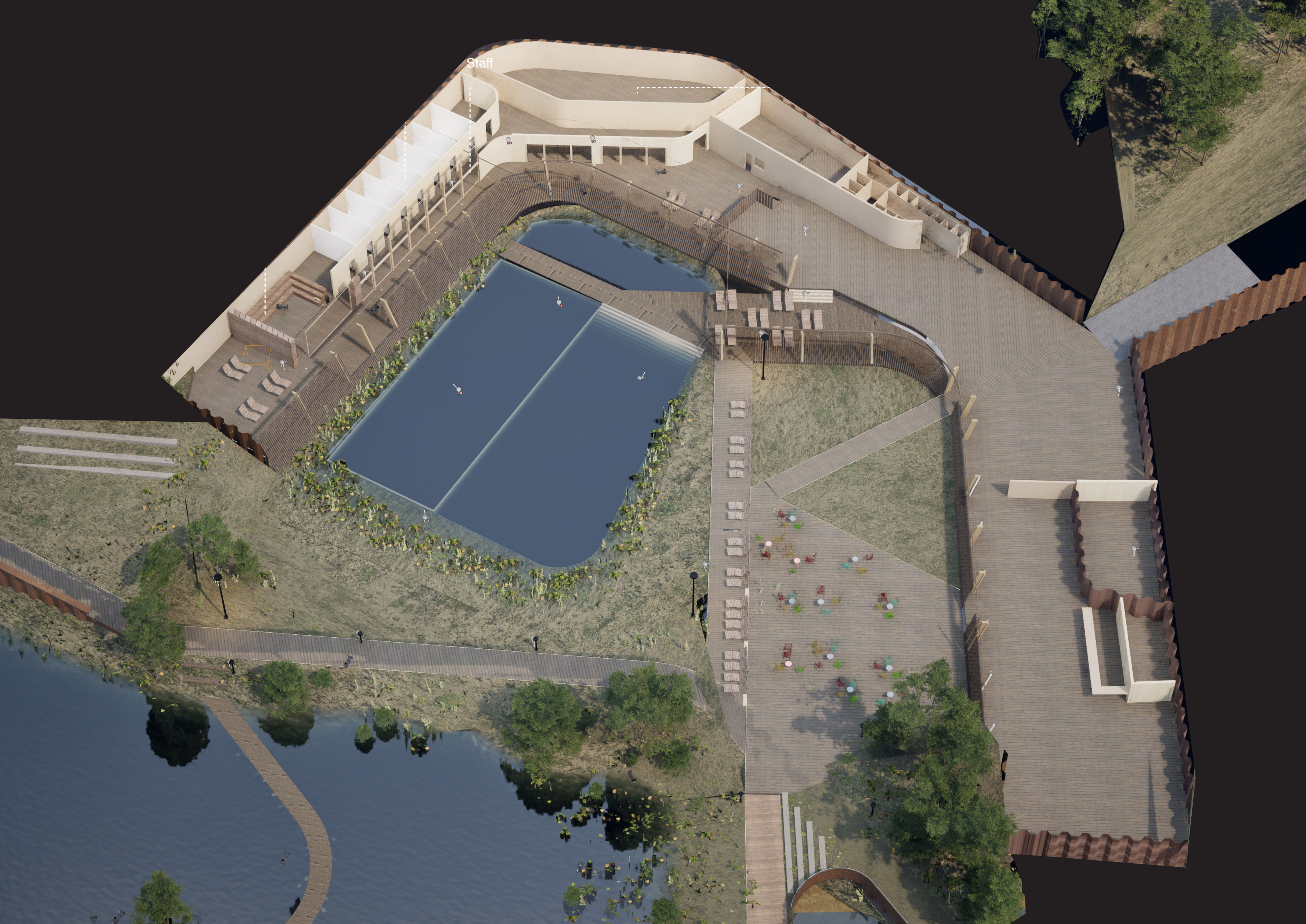
Ground floor plan
1:200

1. Access
2. Lockers
3. Changing rooms
4. Staff area
5. Ticket booth
6. Staff area
7. Relaxation rooms
8. Sauna
9. Lounge
10. Professional swimmers
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12. Childrens' pool
13. Sunbathing deck
14. Bicycle storage
15. Storage
16. Cafe service area
17. WC
18. Indoor seating
19. Outdoor terrace

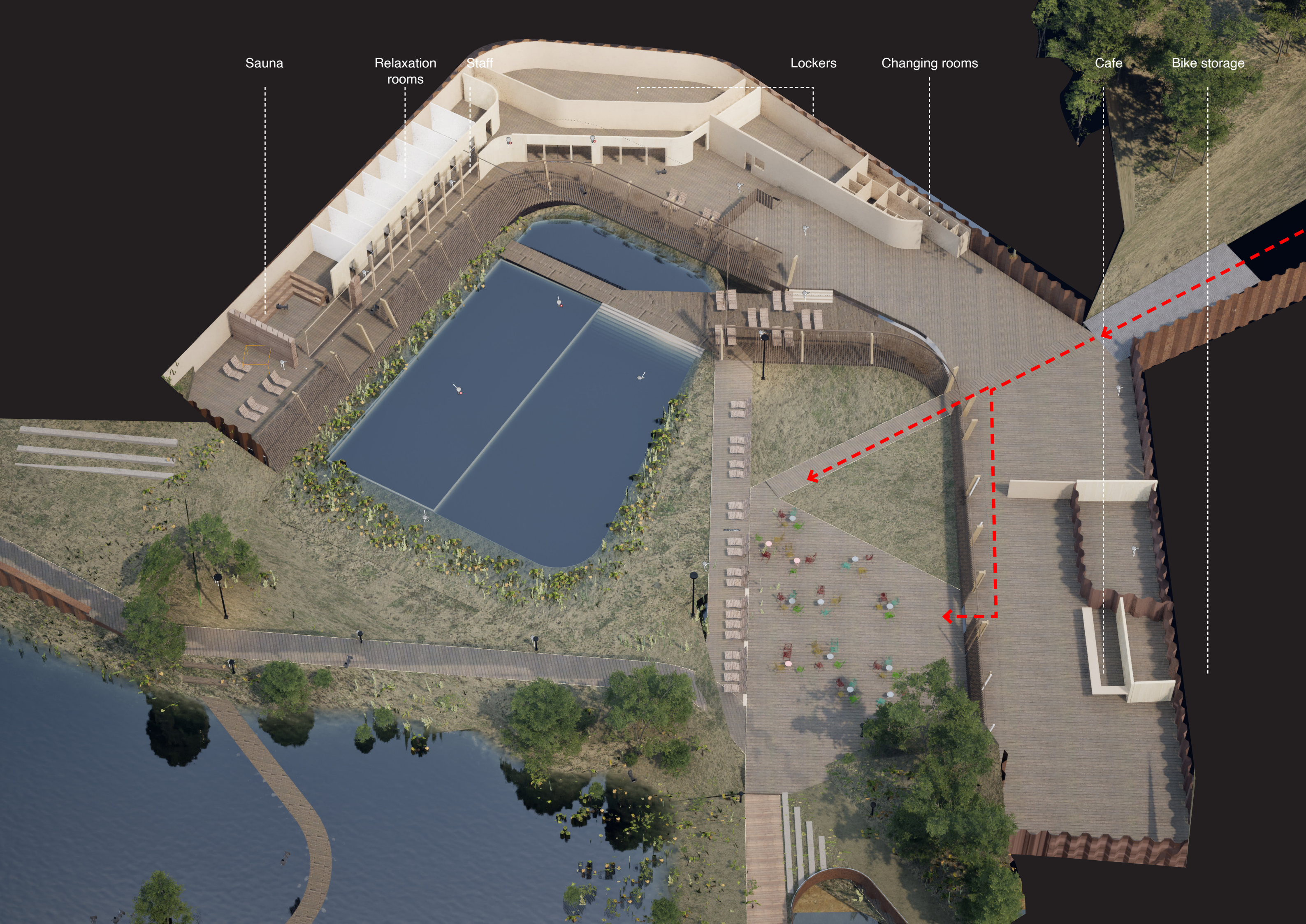


Ground floor plan
1:200

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17. WC
18. Indoor seating
19. Outdoor terrace



Staff



Sauna

Relaxation
rooms

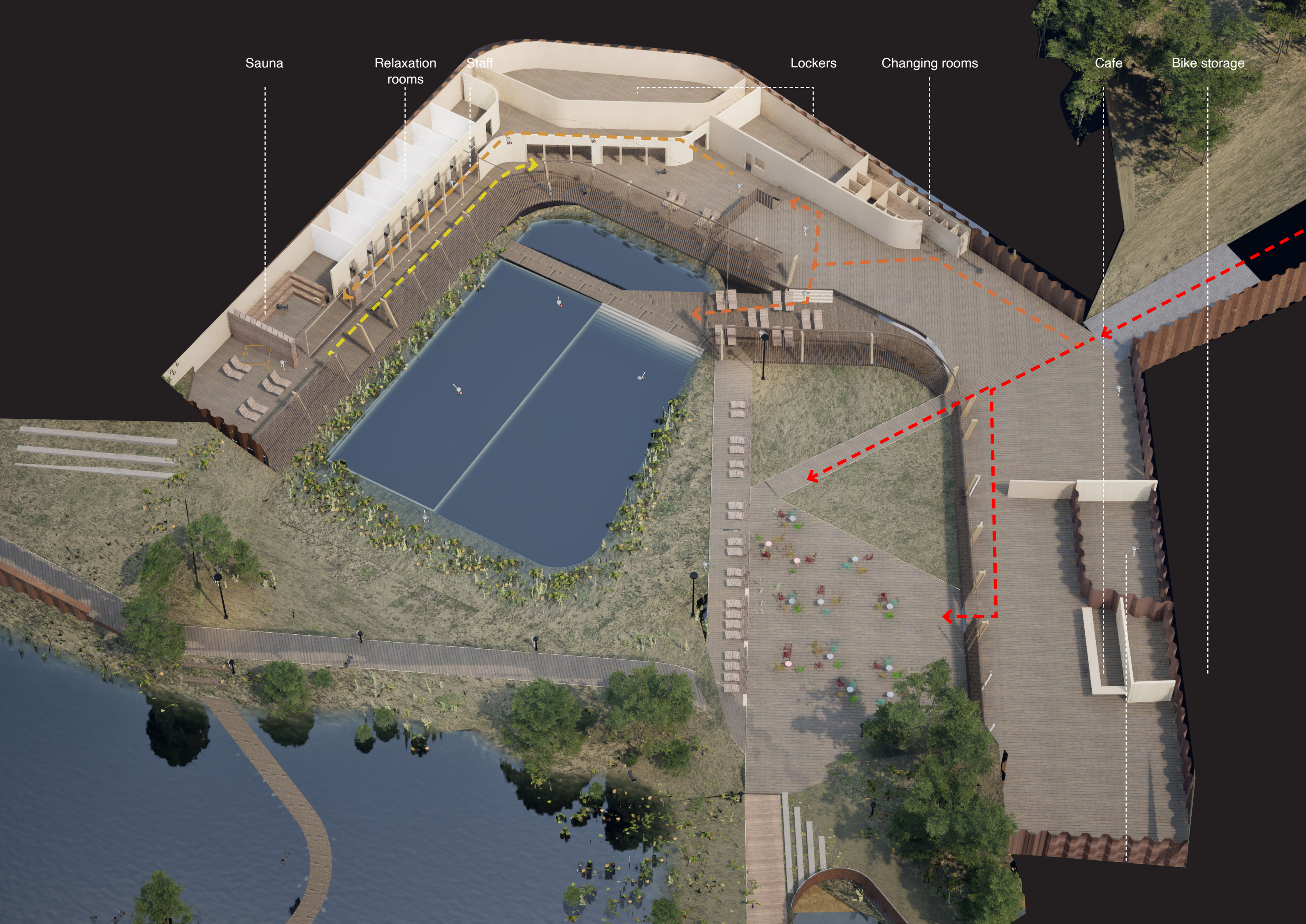
Staff

Lockers

Changing rooms

Cafe

Bike storage



Sauna

Relaxation
rooms

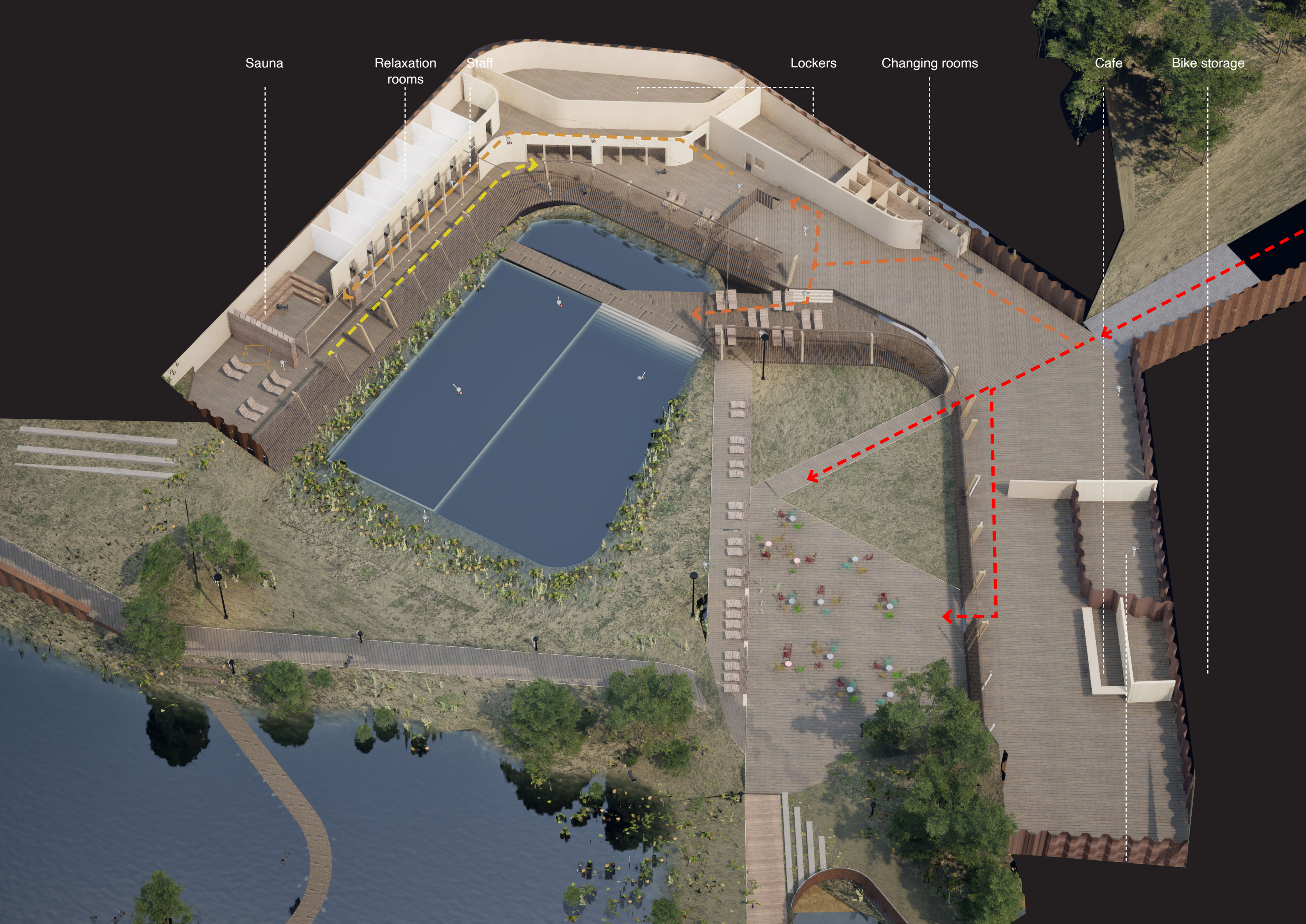
Staff

Lockers

Changing rooms

Cafe

Bike storage



Sauna

Relaxation
rooms

Staff

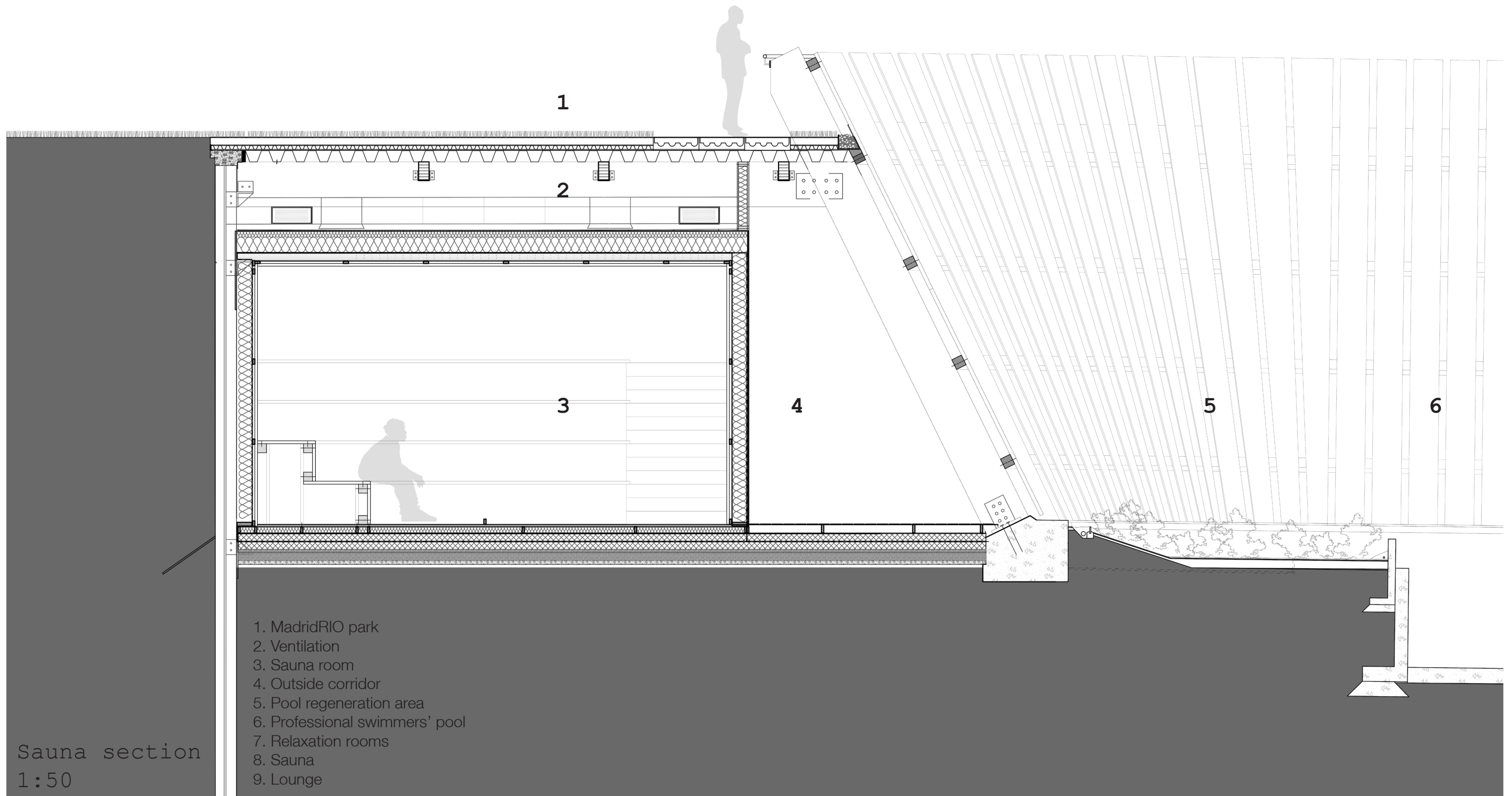
Lockers

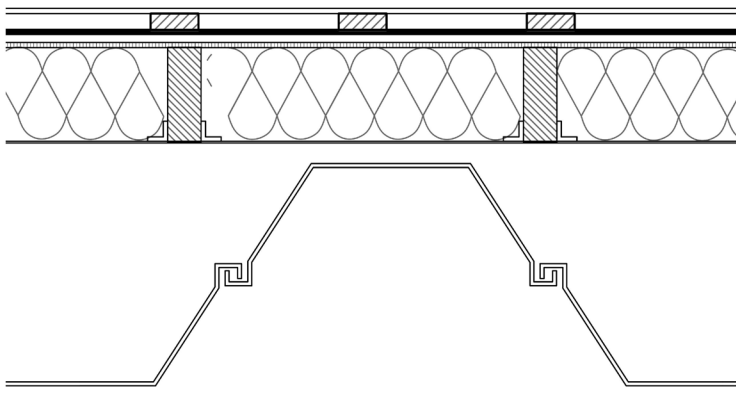
Changing rooms

Cafe

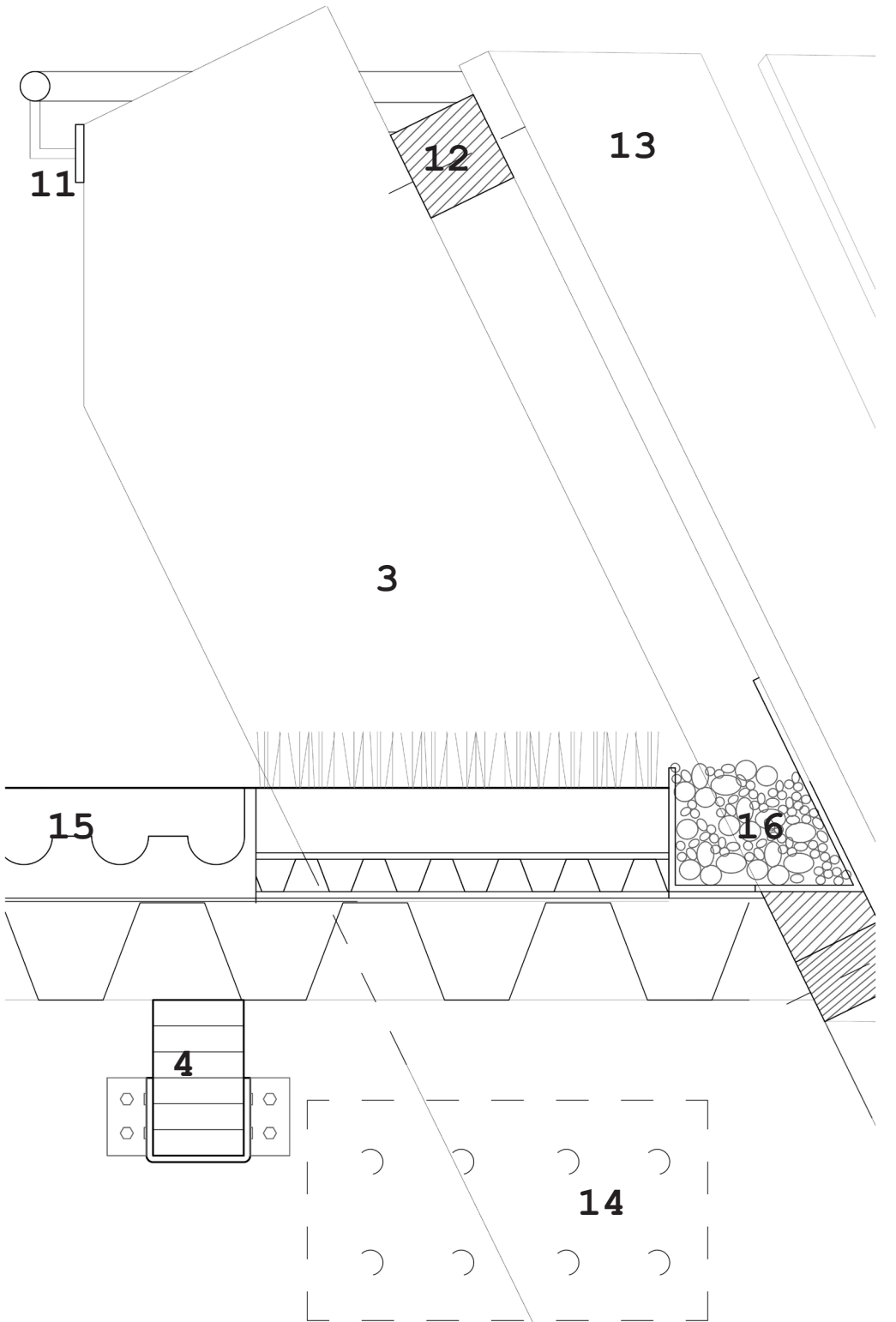
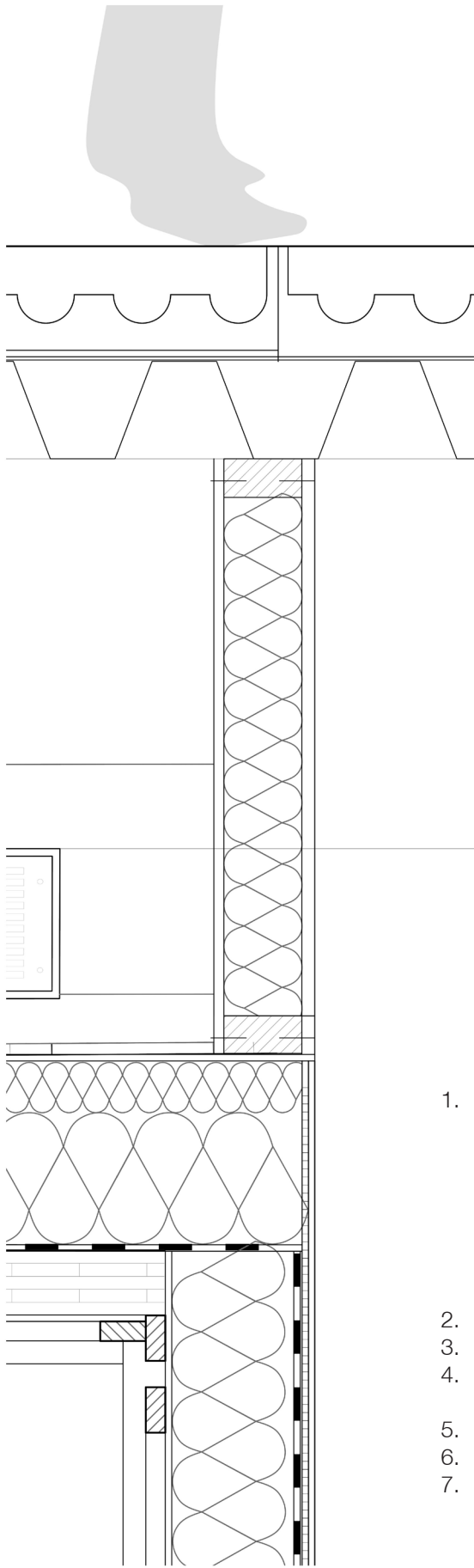
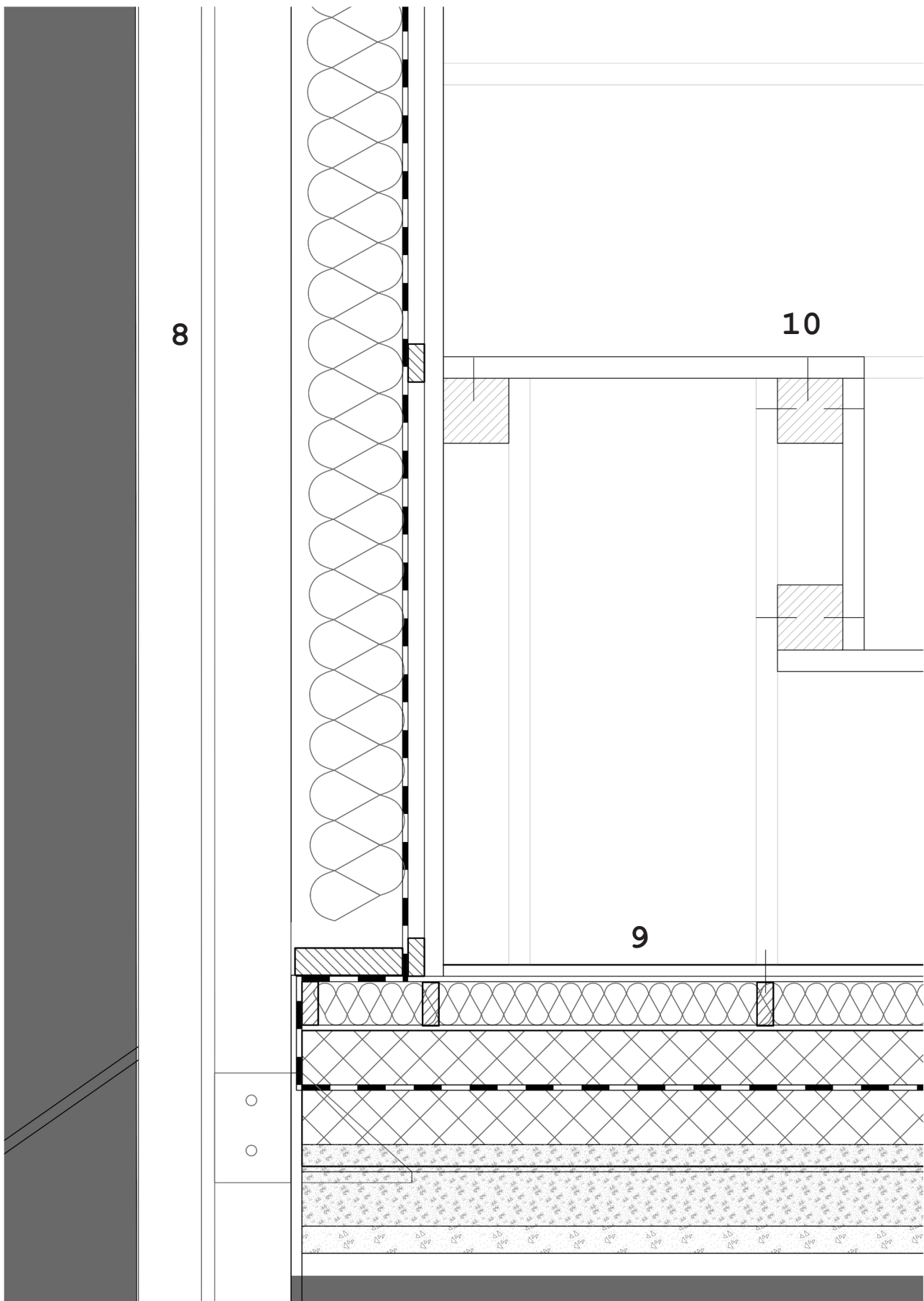
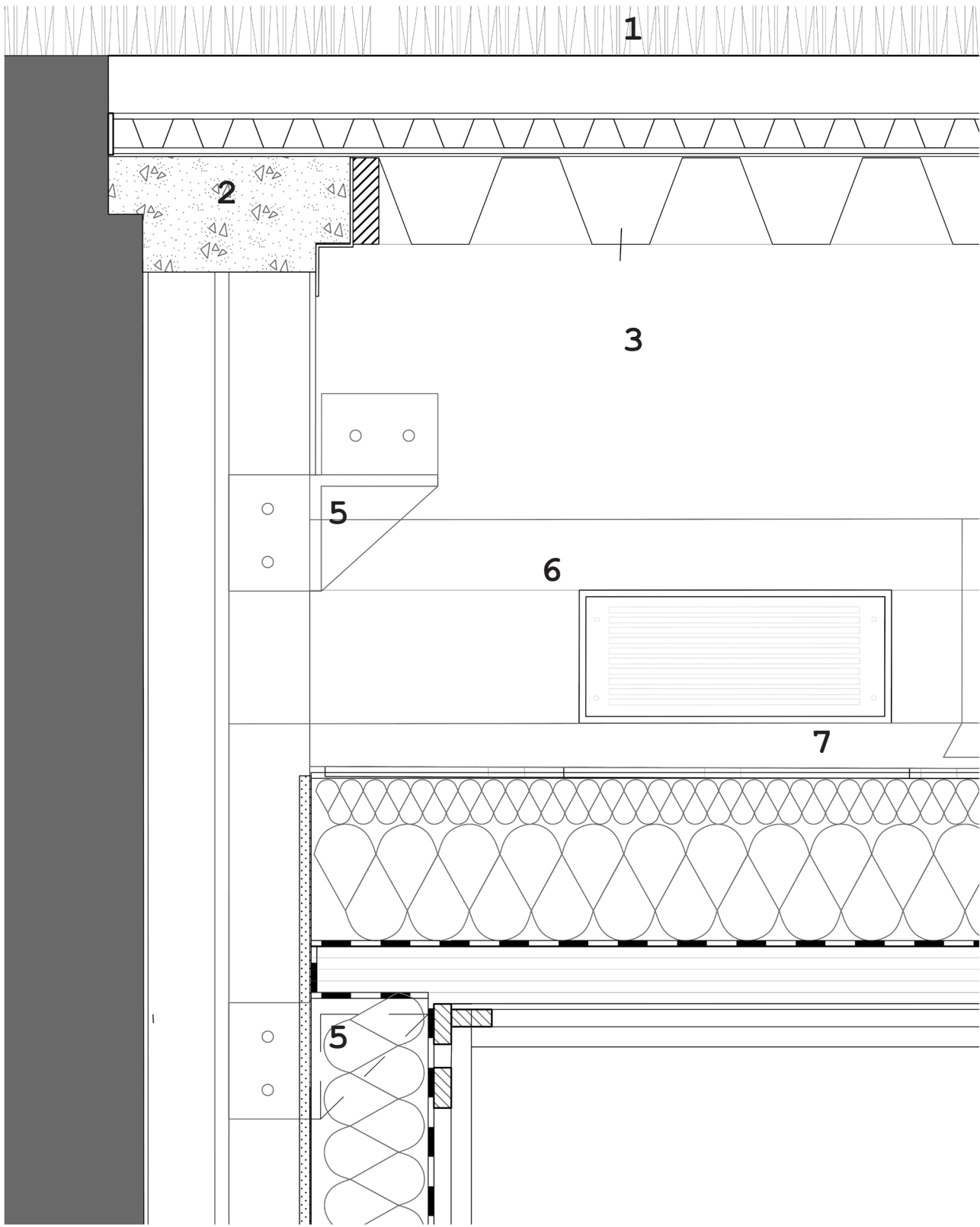
Bike storage





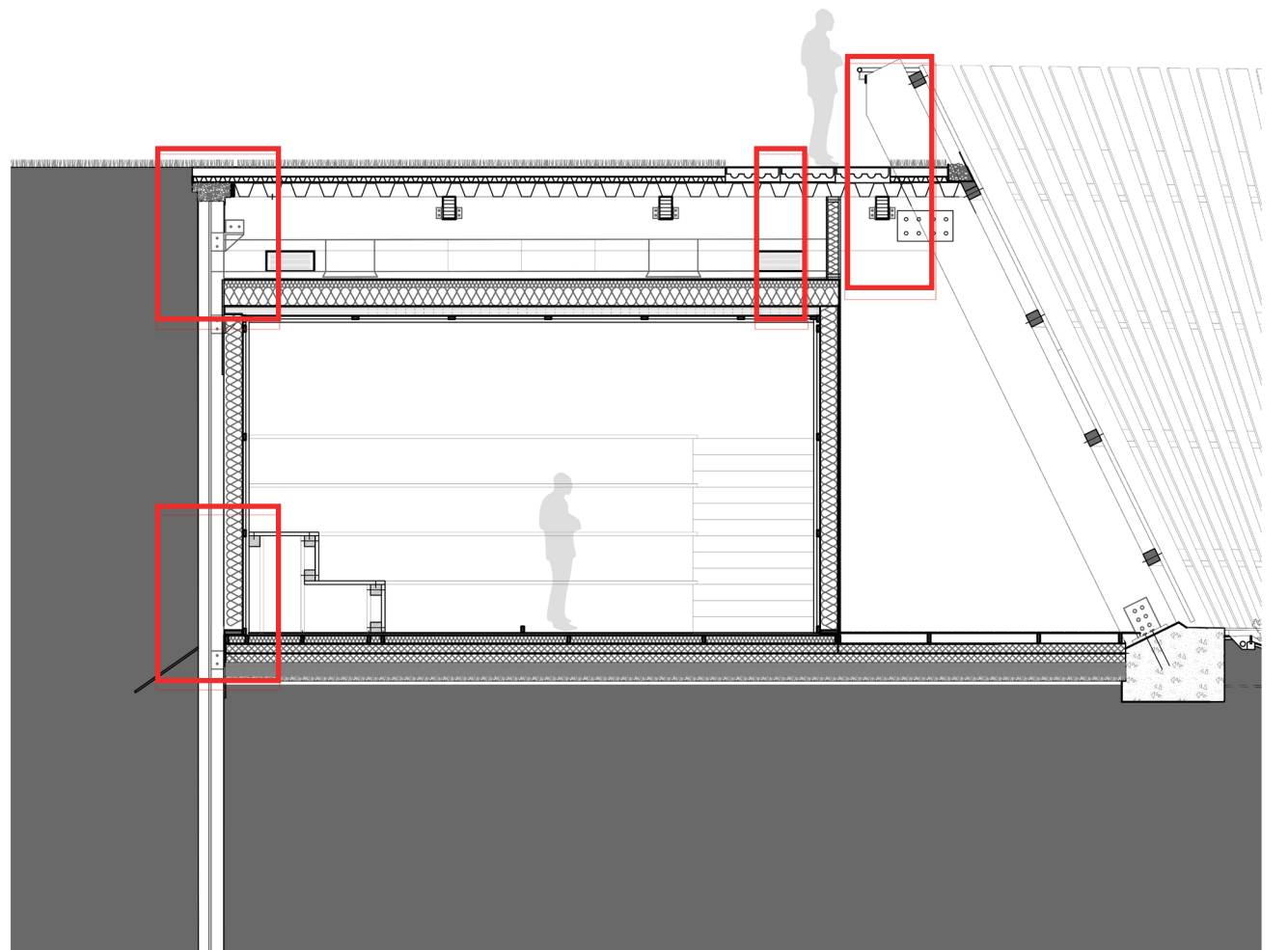


retaining wall
horizontal section

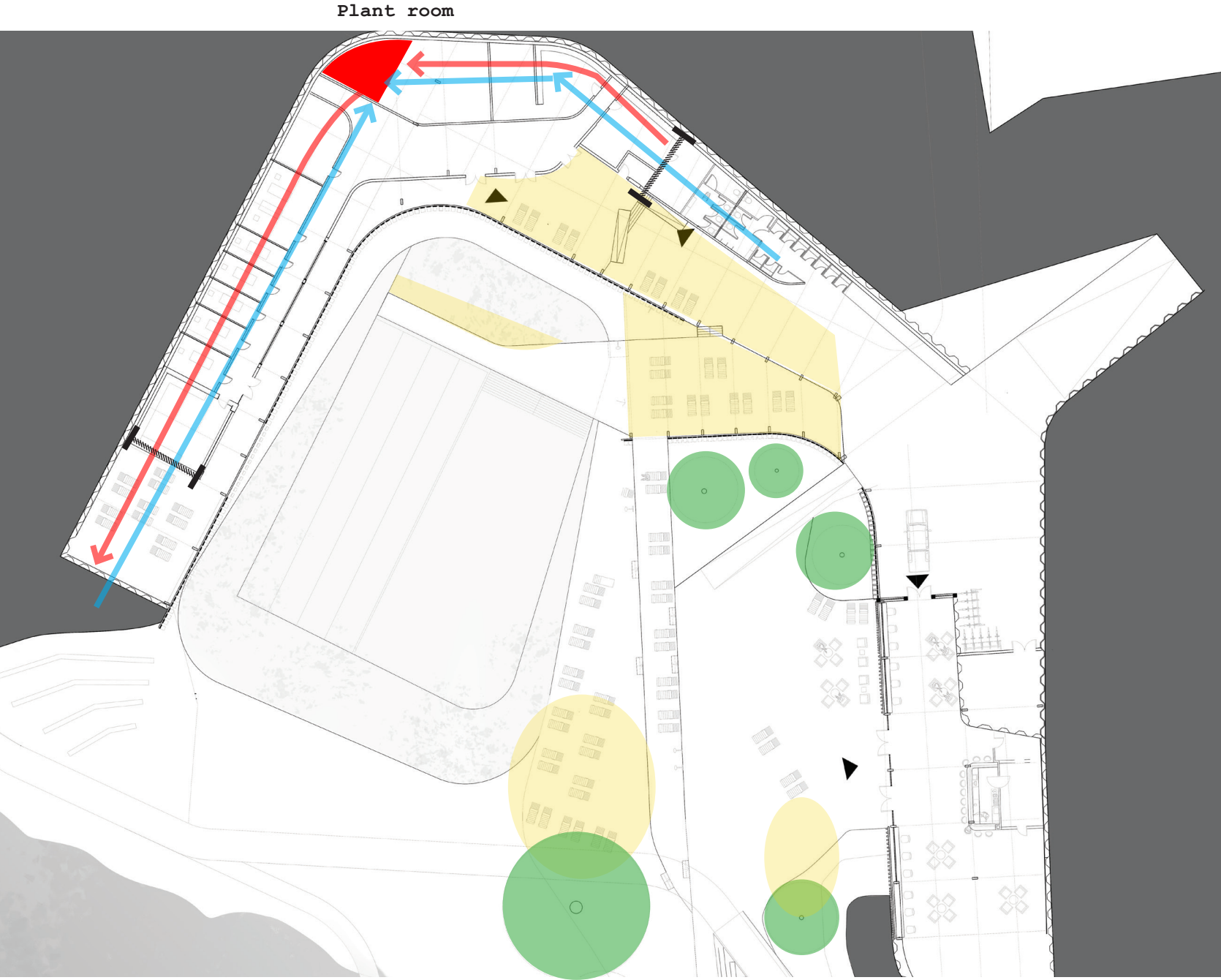
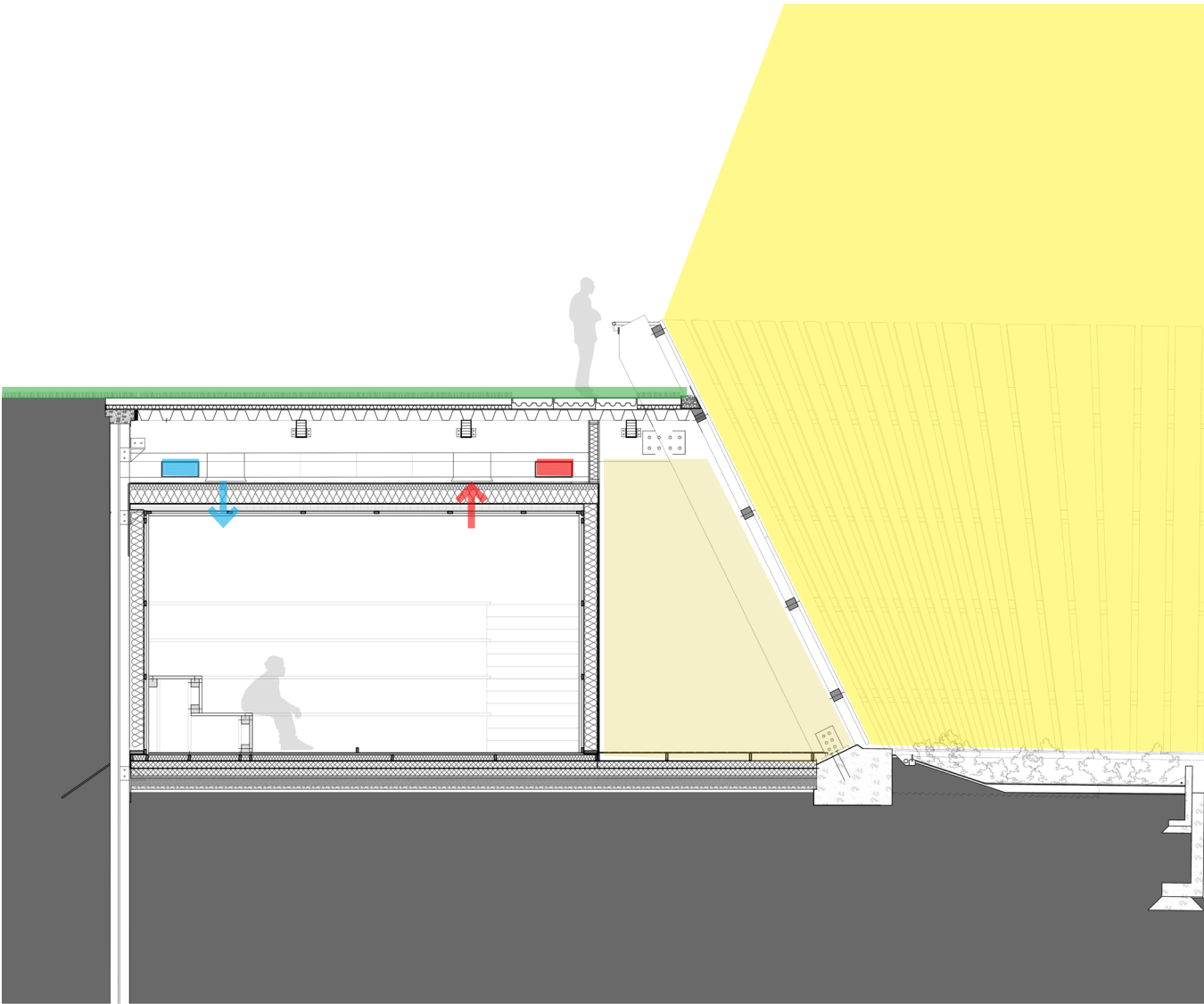


Manzanares SPA sections 1:10

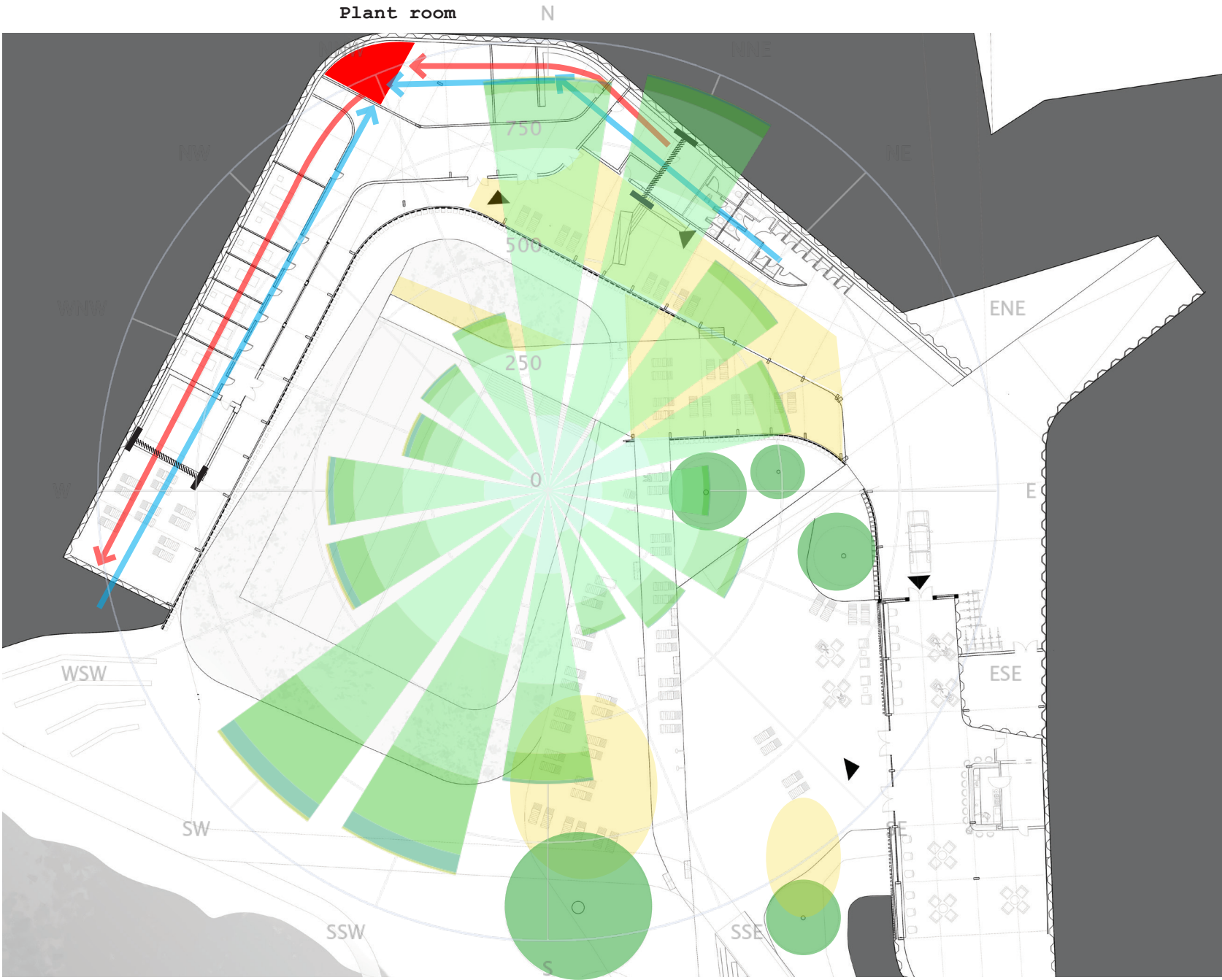
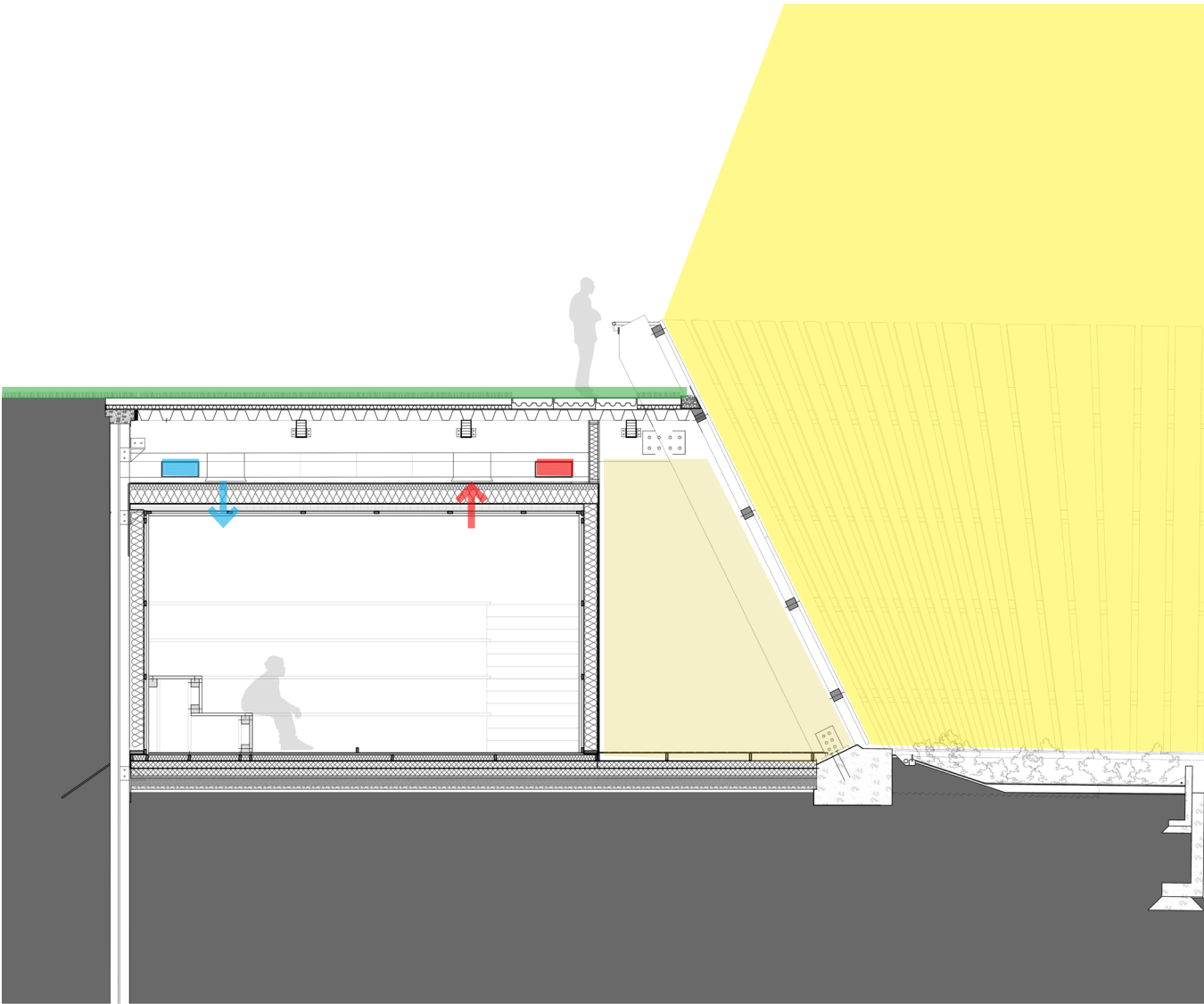
- extensive green roof structure:
sedum blanket
sedum substrate
filter fleece
bio drain
root barrier
rubber EPDM membrane
sheet pile
- reinforced concrete capping beam
- 600x180 gluelam beam
- 240x140 gluelam beams
bent steel hanger
- steel angle support
- ventilation
- sauna roof:
sealing membrane
80mm mineral wool insulation
200mm mineral wool insulation
PE film vapour barrier
CLT panel
battens
cypress boards
- steel sheet pile wall
45mm back ventilation
180x60mm wood studs
inlaid mineral wool insulation,
vapour barrier
OSB panel
battens
cypress boards
- larch decking
80x 30mm battens inlaid mineral
wool insulation
2x 150mm EPS insulation, Stego
vapor barrier (15-MIL)
150mm recycled aggregate gravel
50mm limestone gravel
- steps for sitting:
cypress boards
- Ø45 mm pine railing
140x140mm beams
- reclaimed plank boards
- slotted in metal sheets
- steel dovels
- RoofStone integrated pavers
- drainage

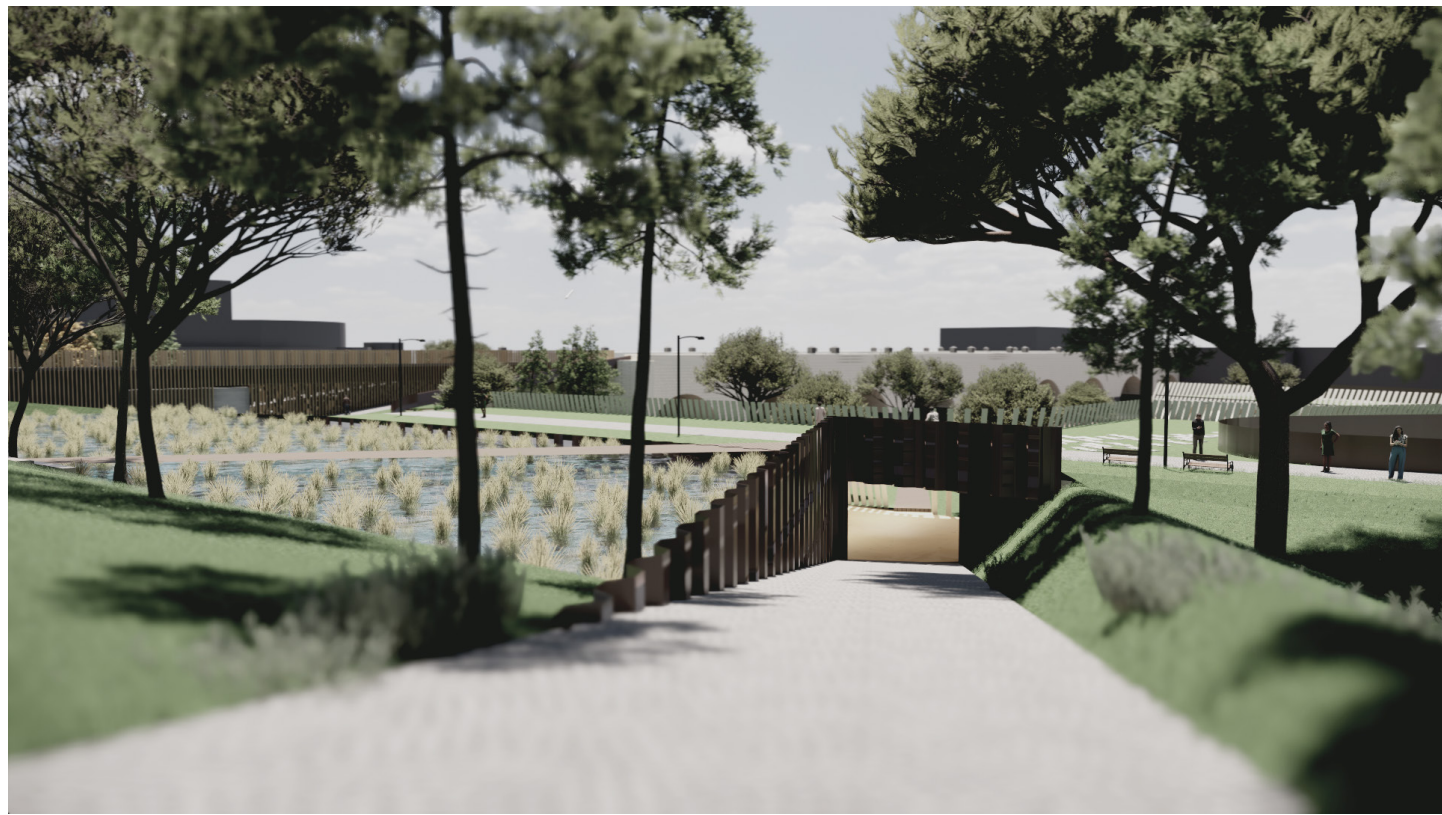


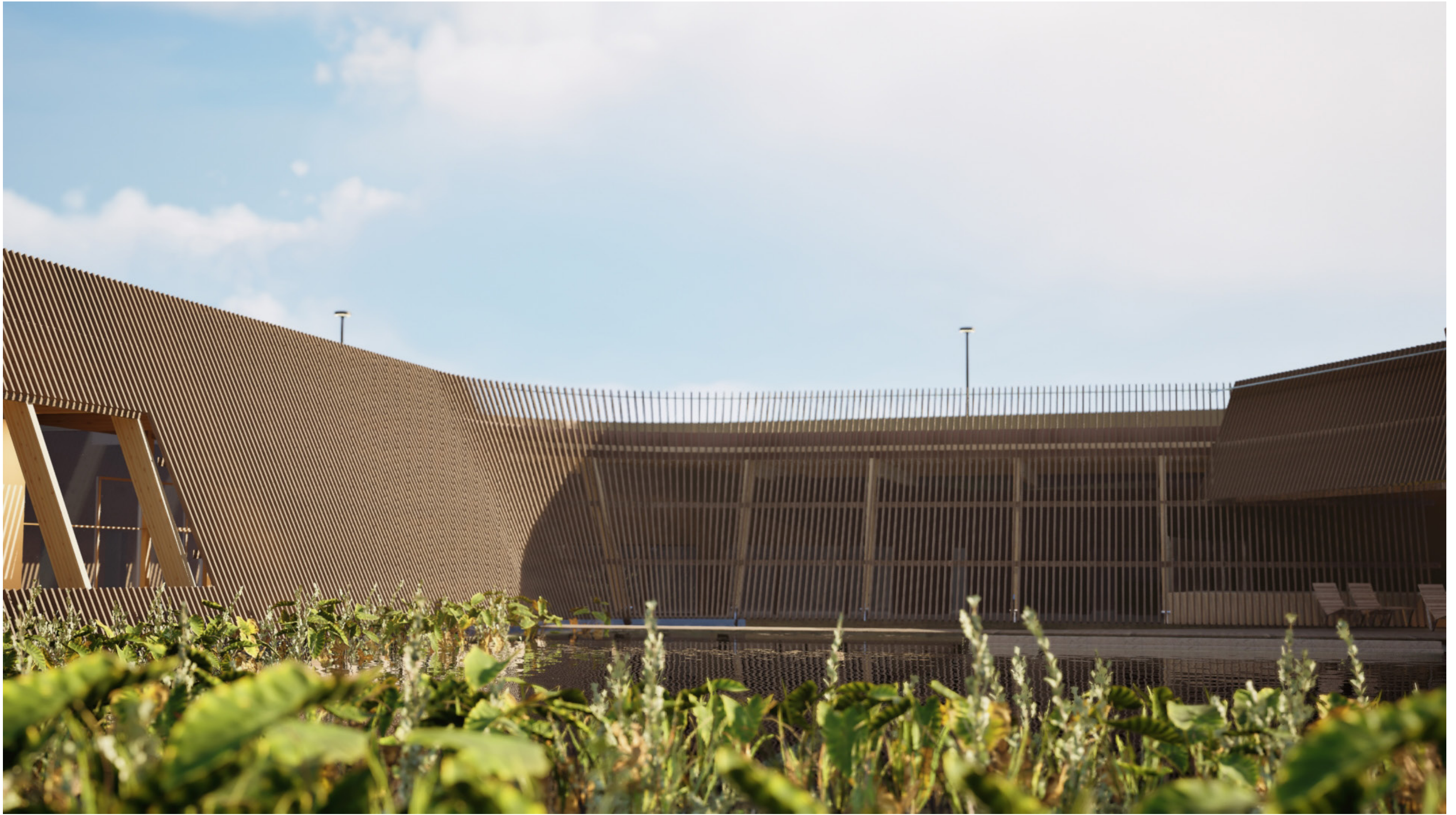
Climate diagram



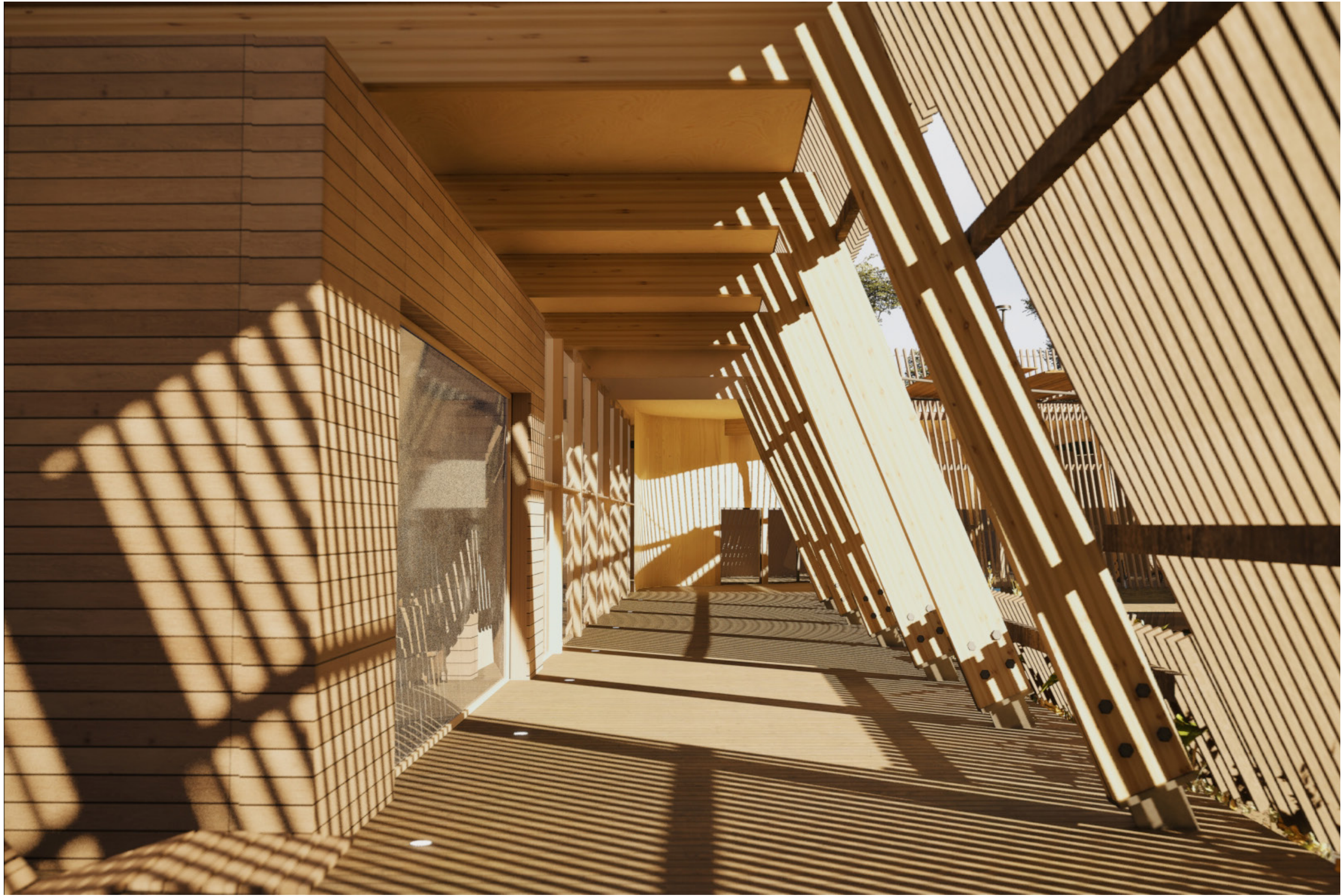
Climate diagram



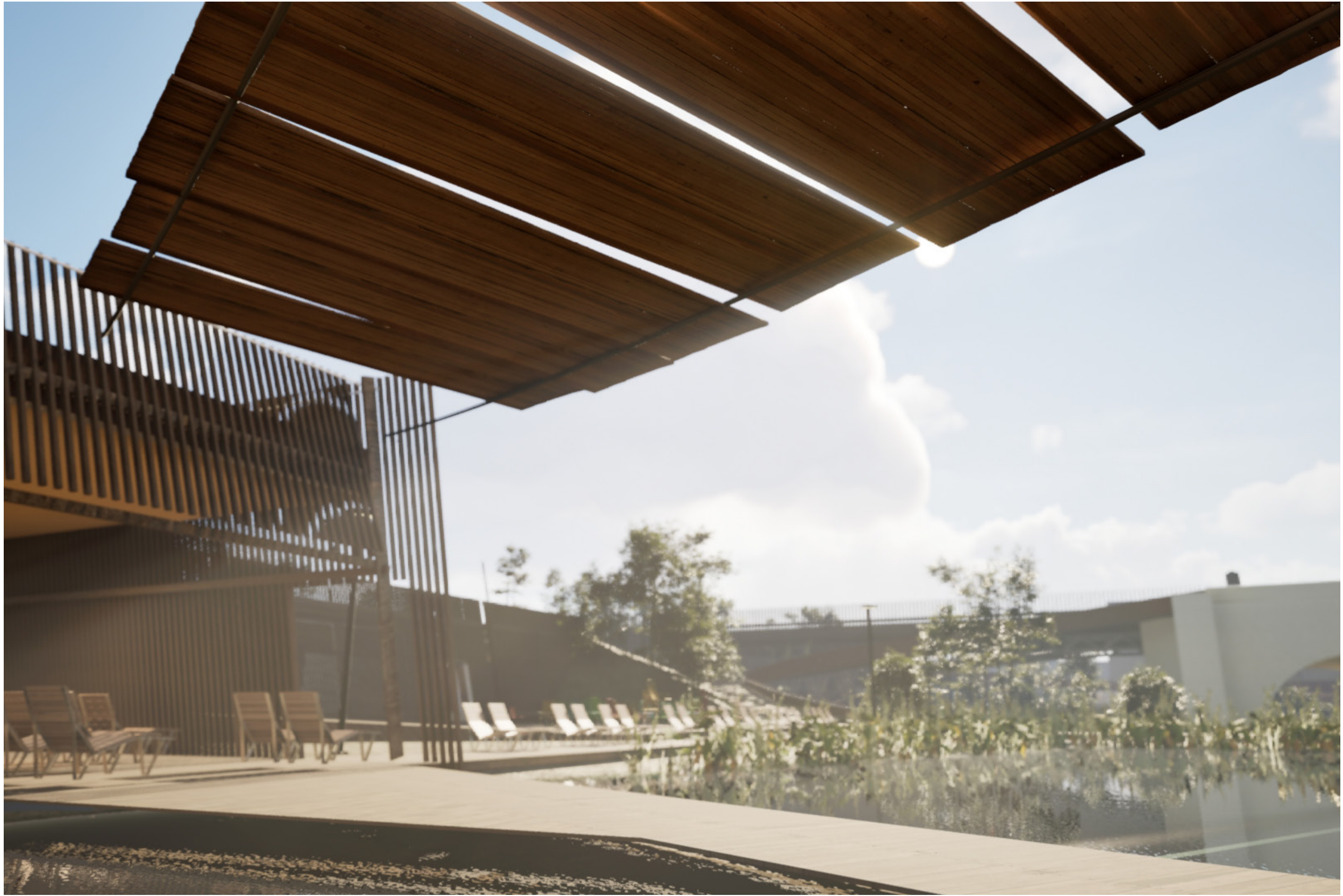




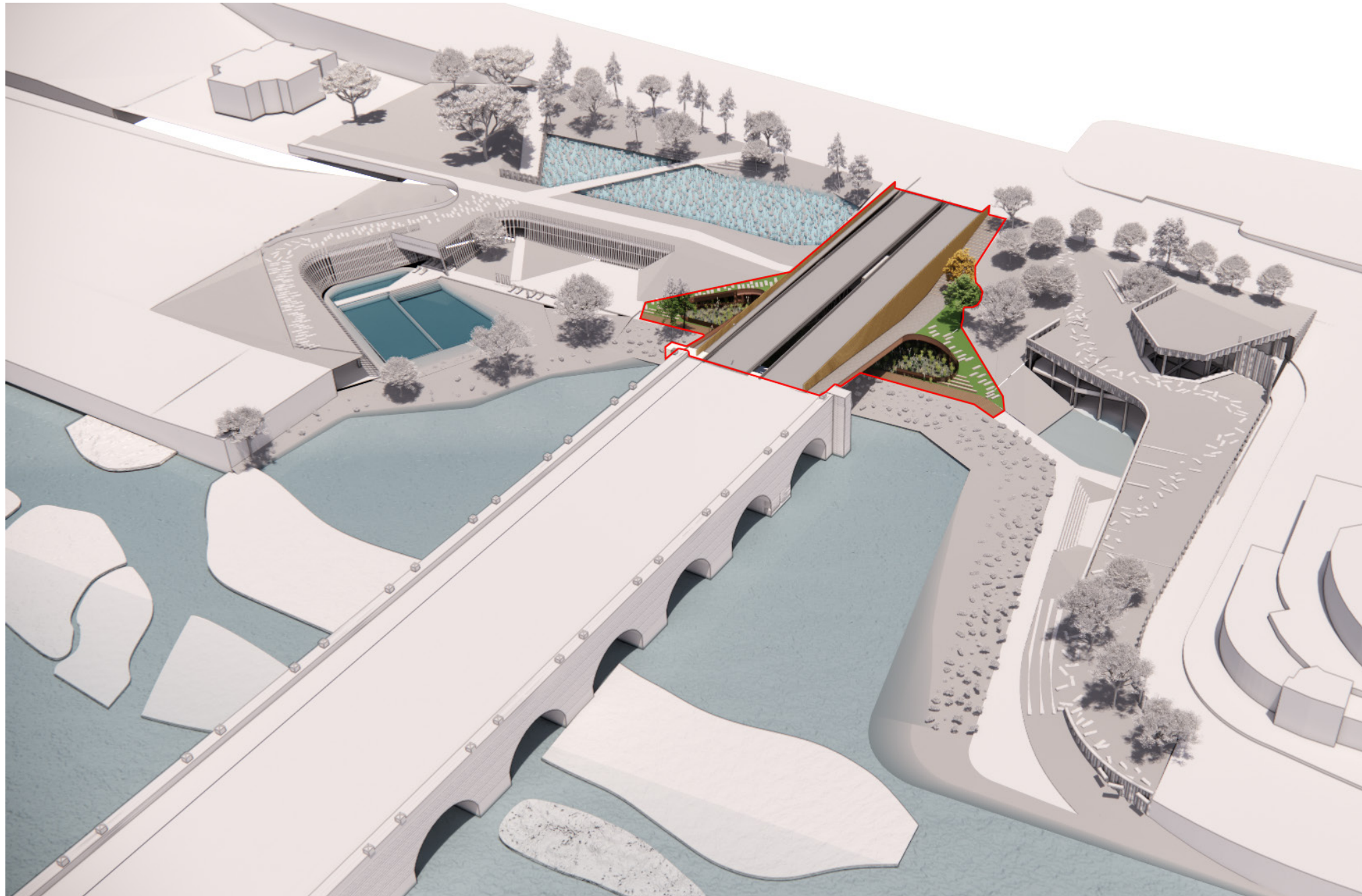


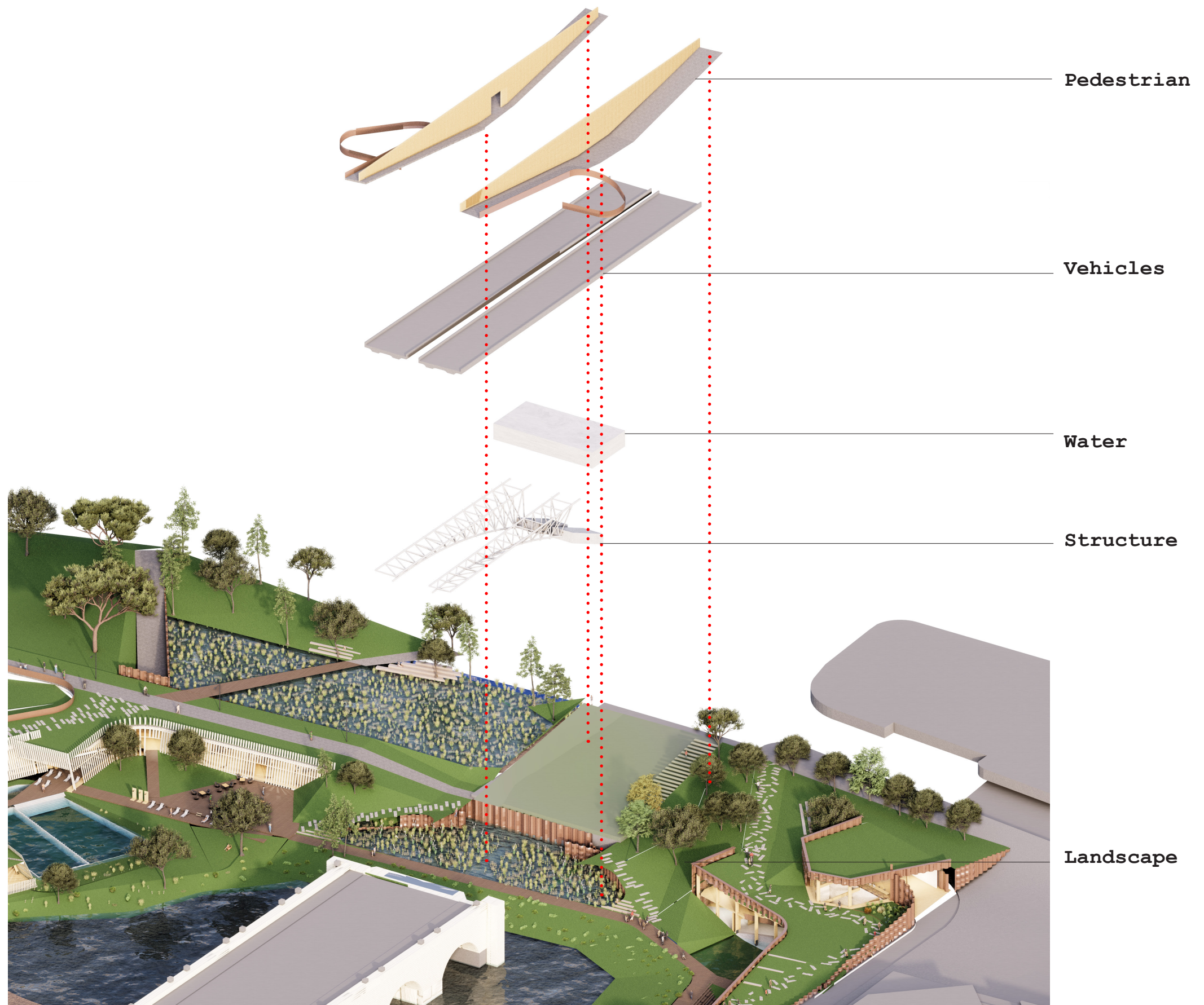






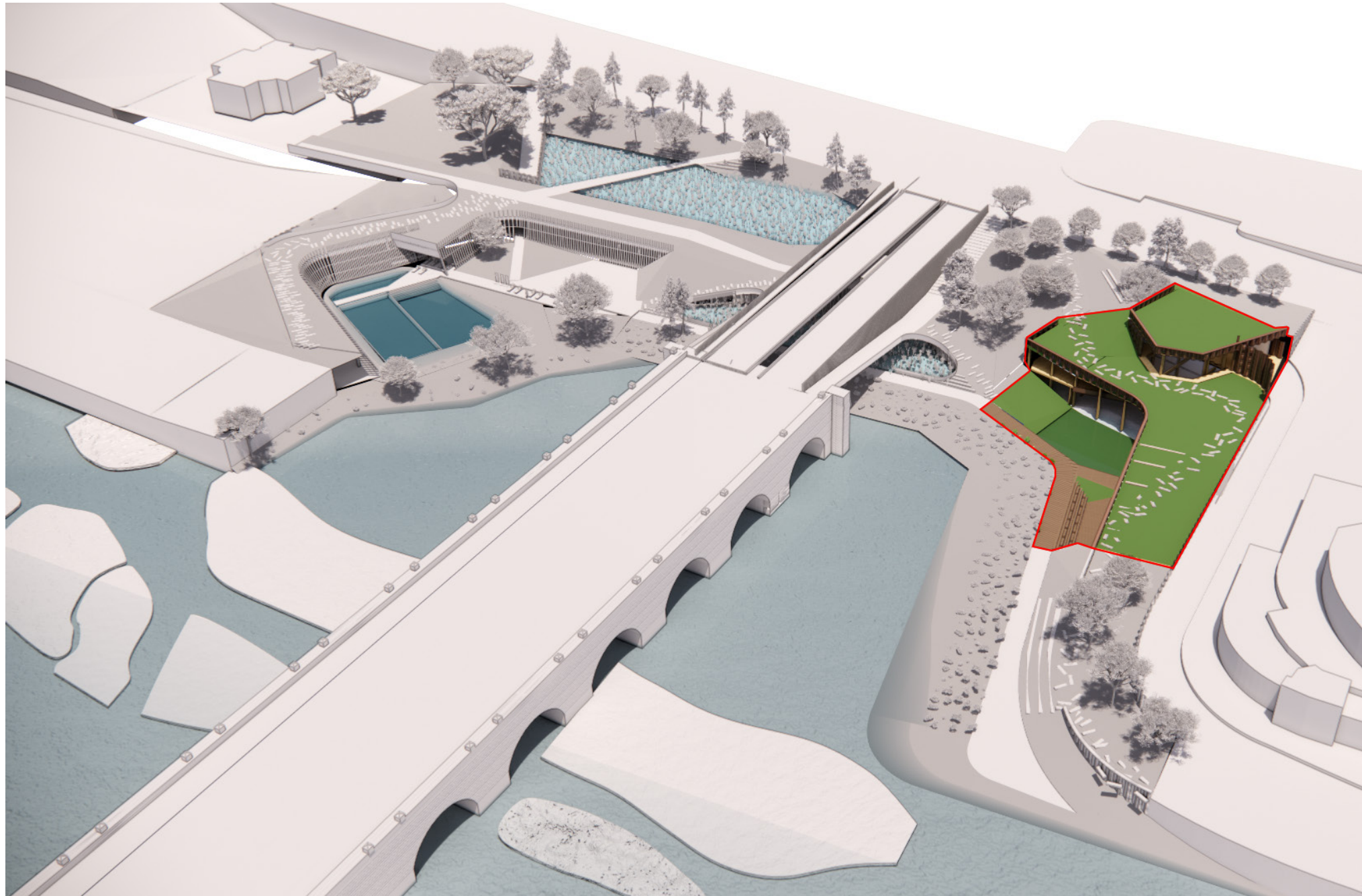
BRIDGE







Manzanares Centre

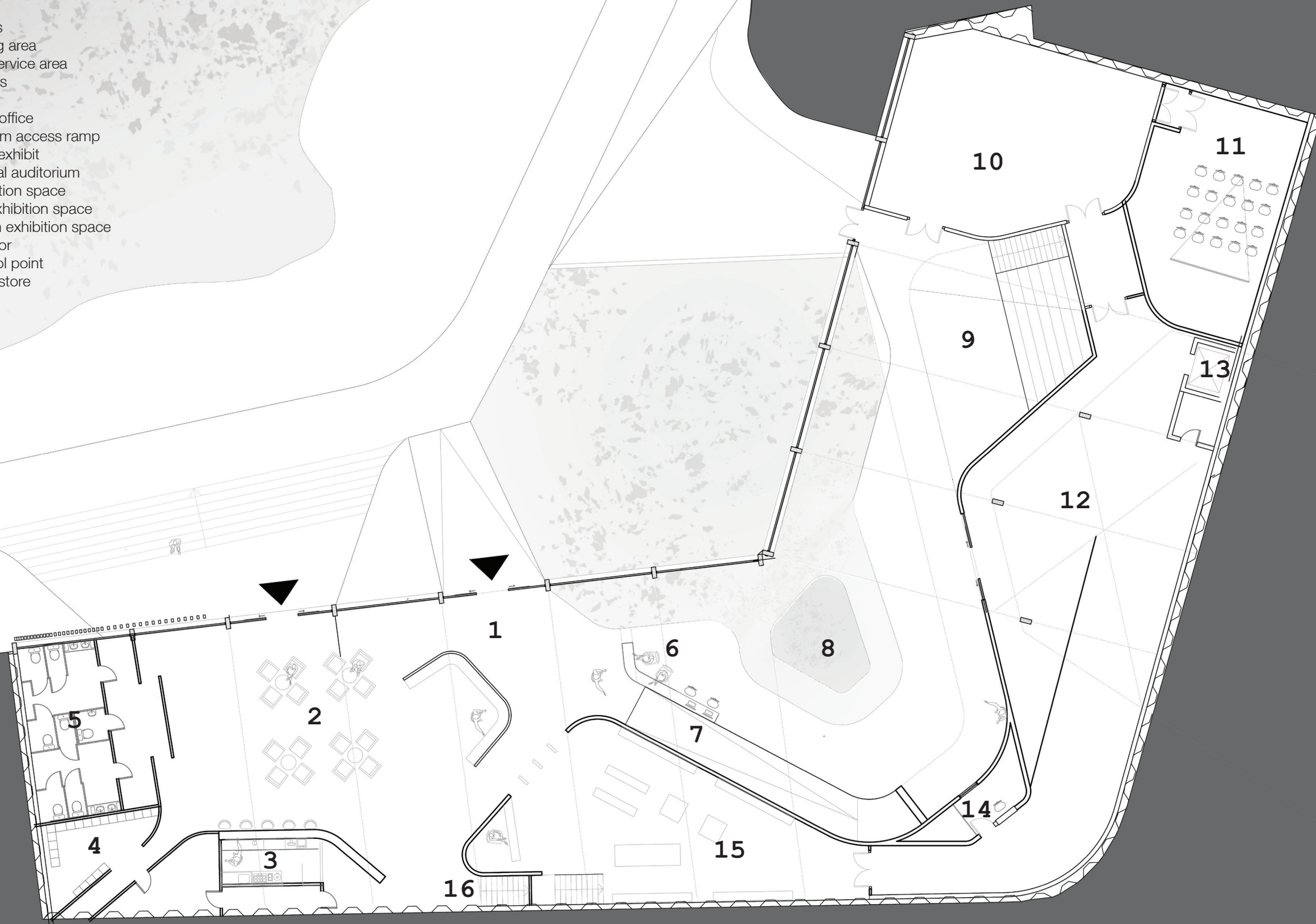




GF Museum plan

1.200

1. Access
2. Seating area
3. Cafe service area
4. Lockers
5. WC
6. Ticket office
7. Museum access ramp
8. Water exhibit
9. Informal auditorium
10. Exhibition space
11. A/V exhibition space
12. Atrium exhibition space
13. Elevator
14. Control point
15. Book store

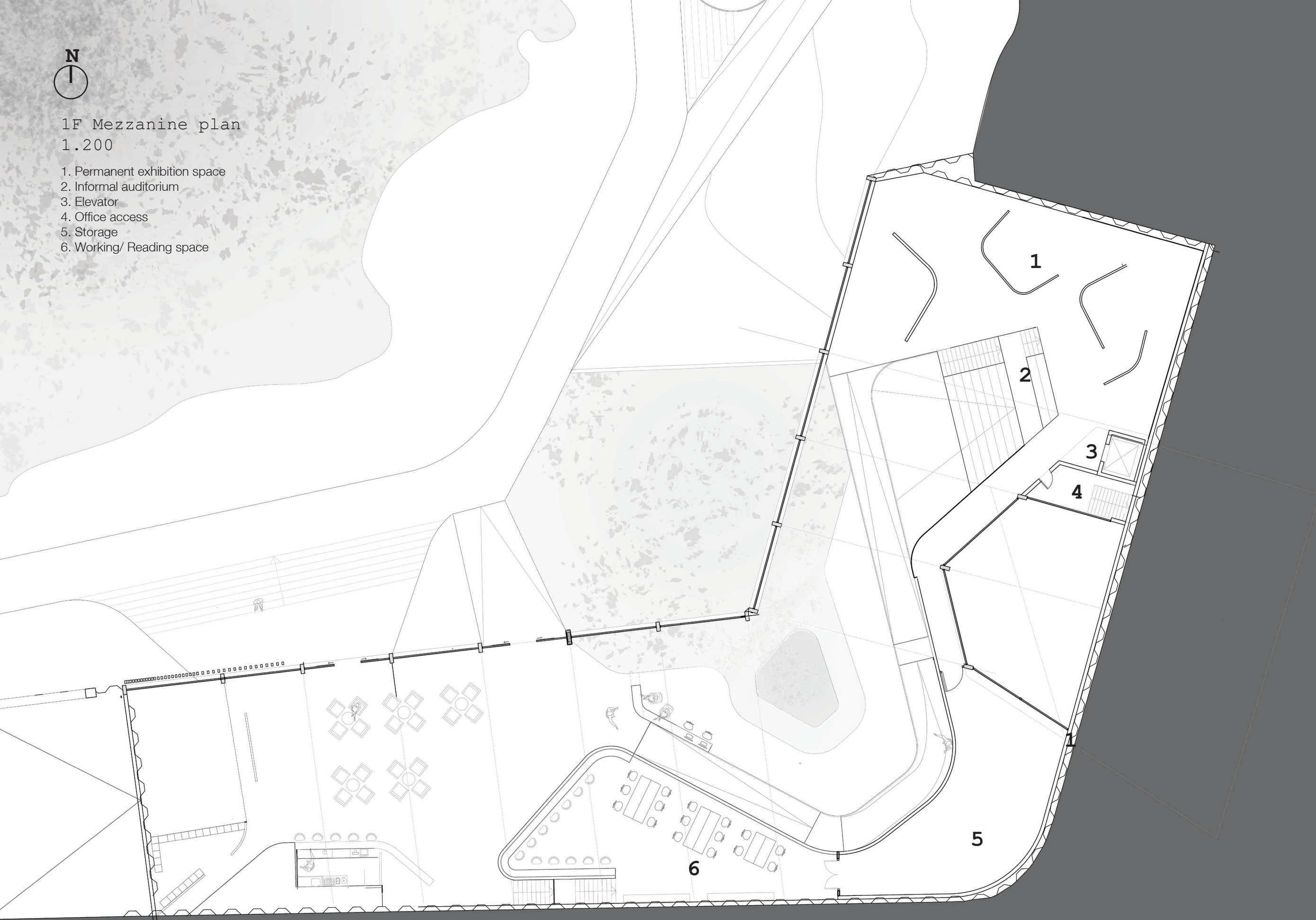




1F Mezzanine plan

1.200

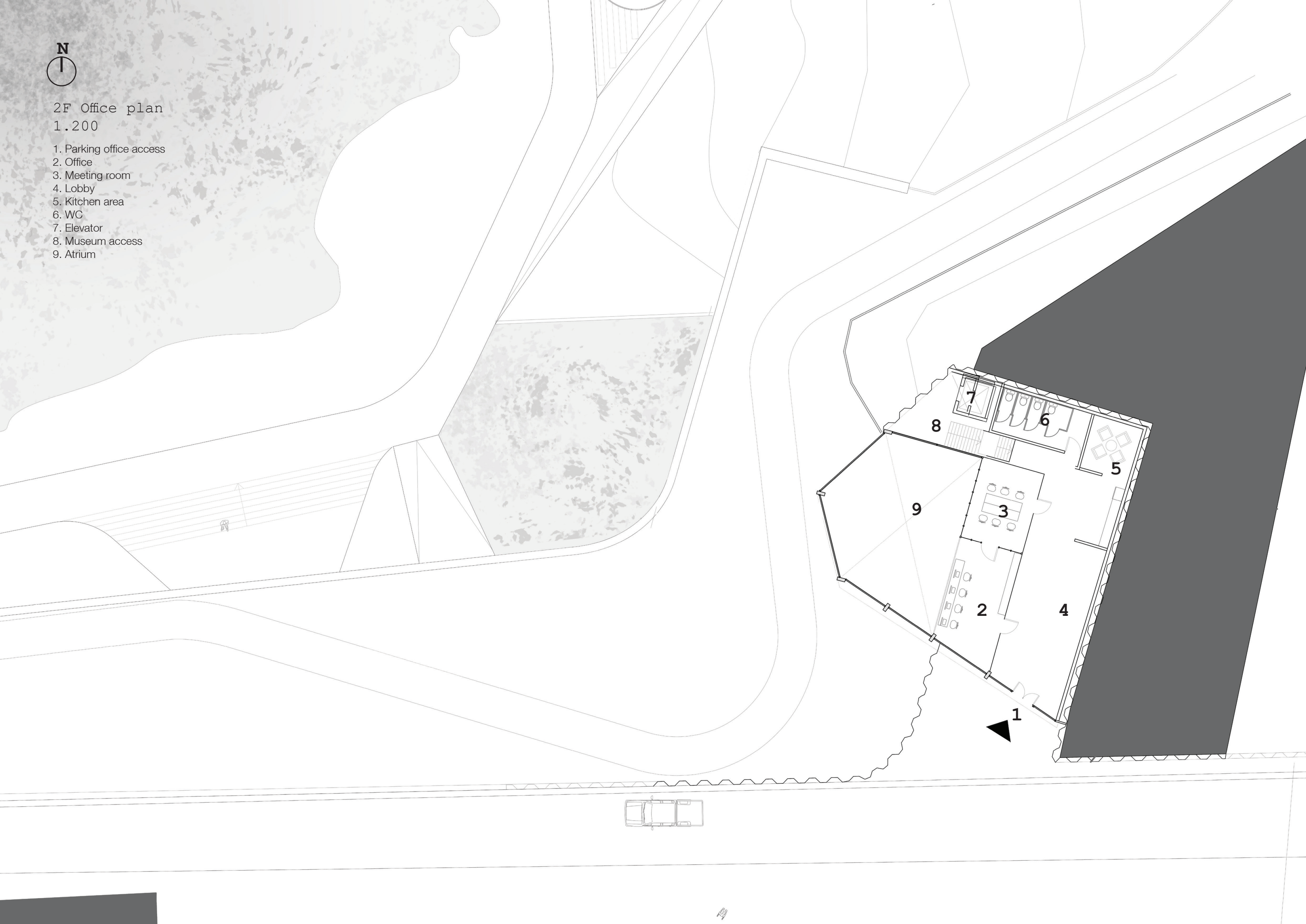
- 1. Permanent exhibition space
- 2. Informal auditorium
- 3. Elevator
- 4. Office access
- 5. Storage
- 6. Working/ Reading space

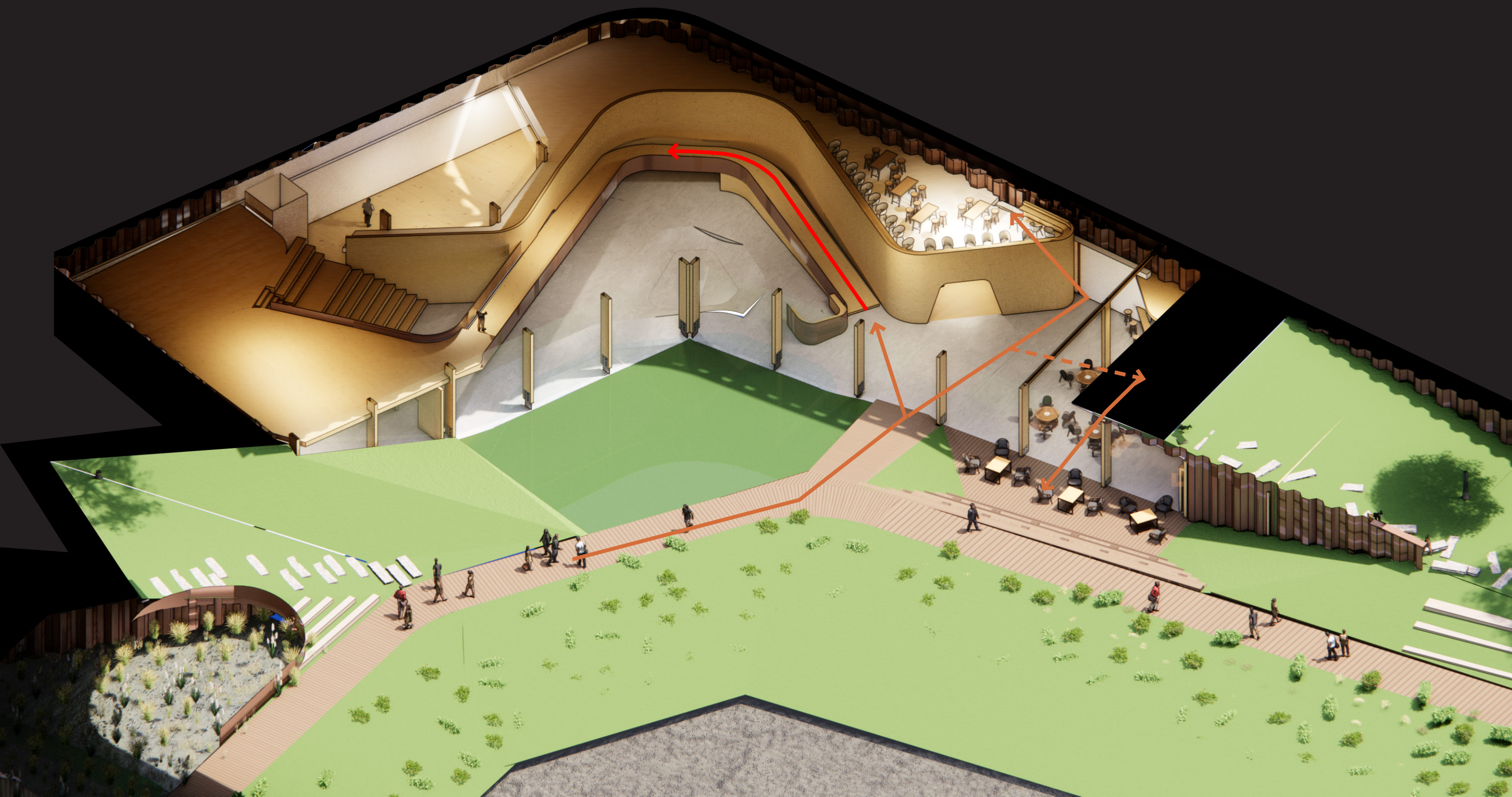




2F Office plan
1.200

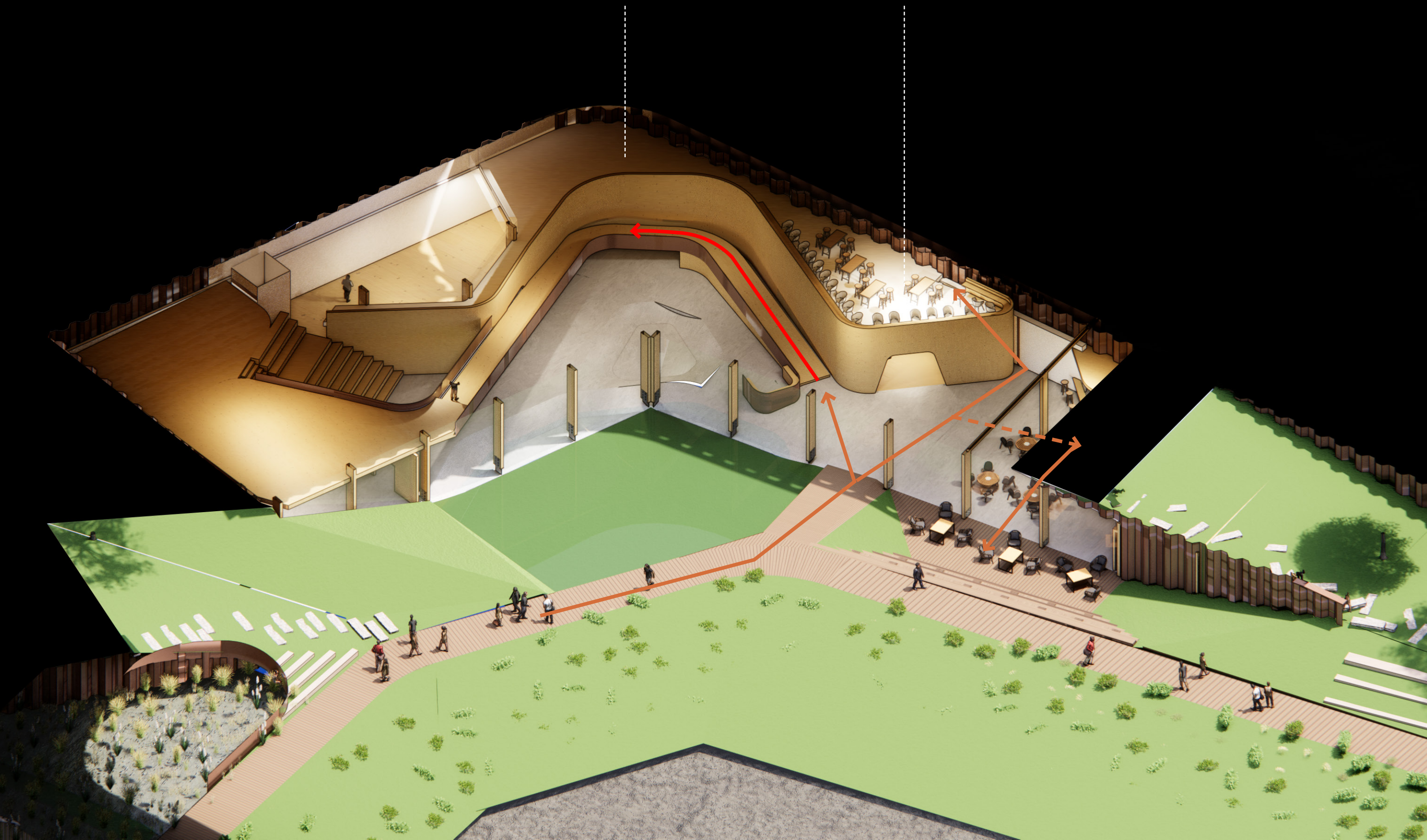
- 1. Parking office access
- 2. Office
- 3. Meeting room
- 4. Lobby
- 5. Kitchen area
- 6. WC
- 7. Elevator
- 8. Museum access
- 9. Atrium



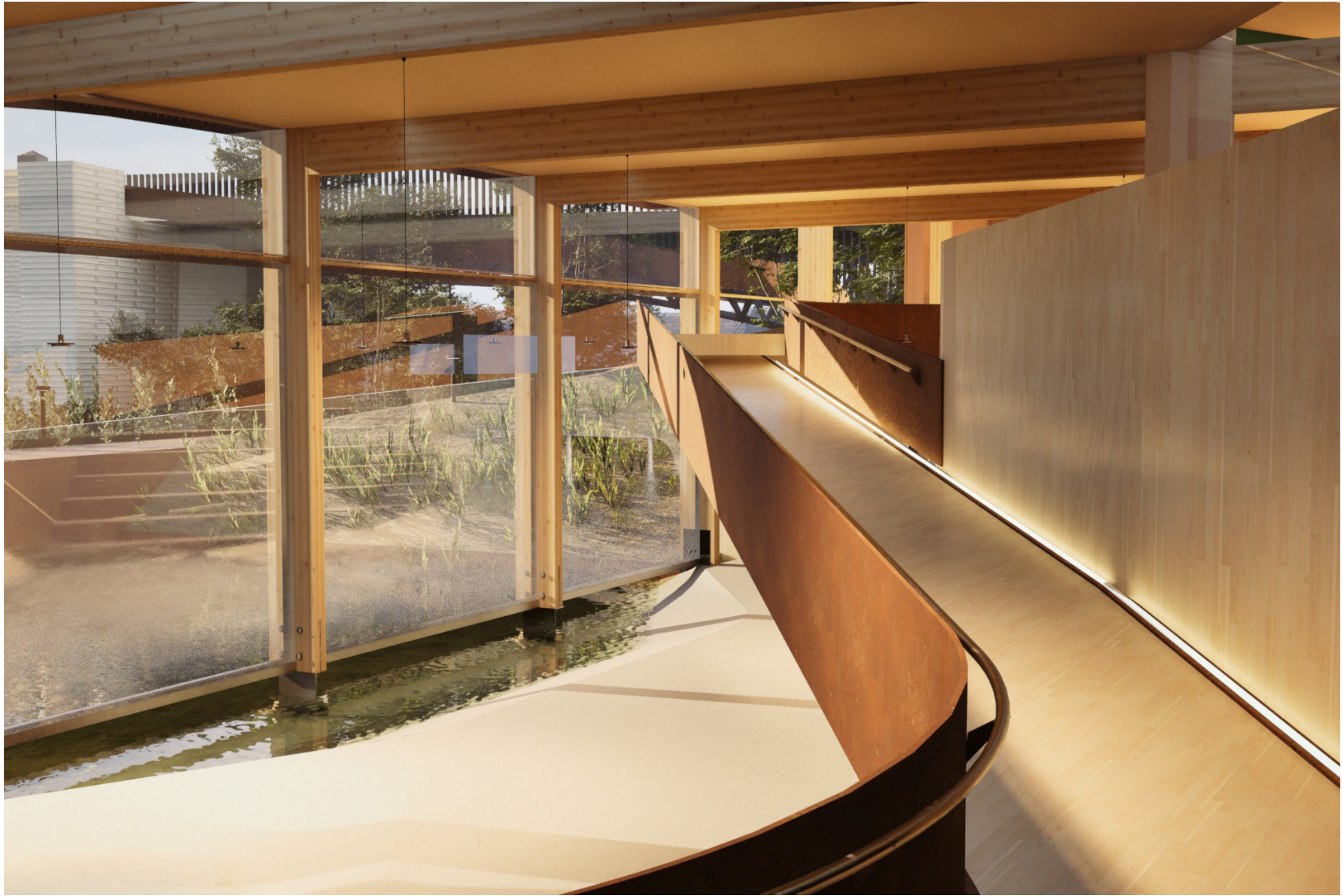


Storage

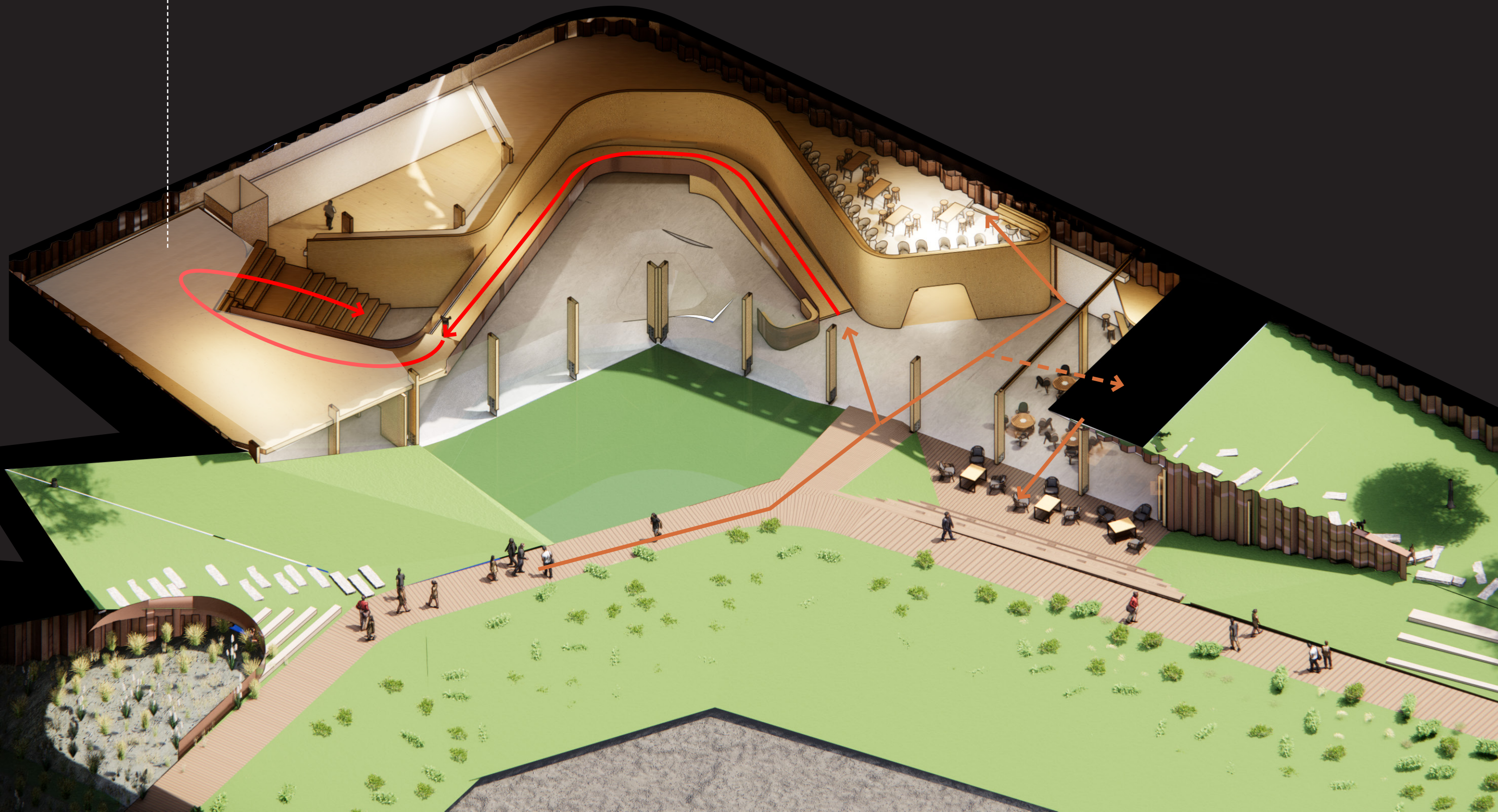
Workspace



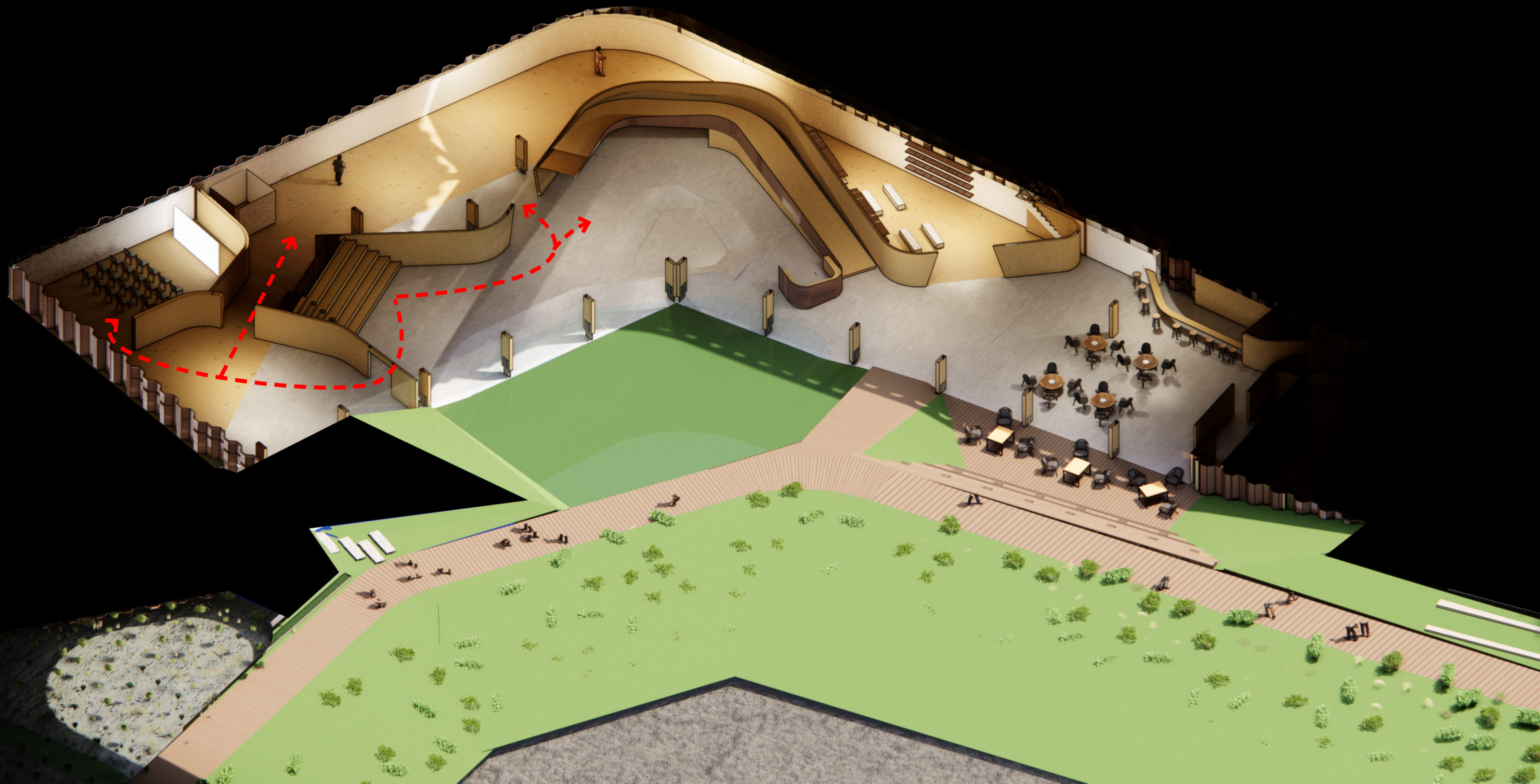




Exhibition







AV Exhibition

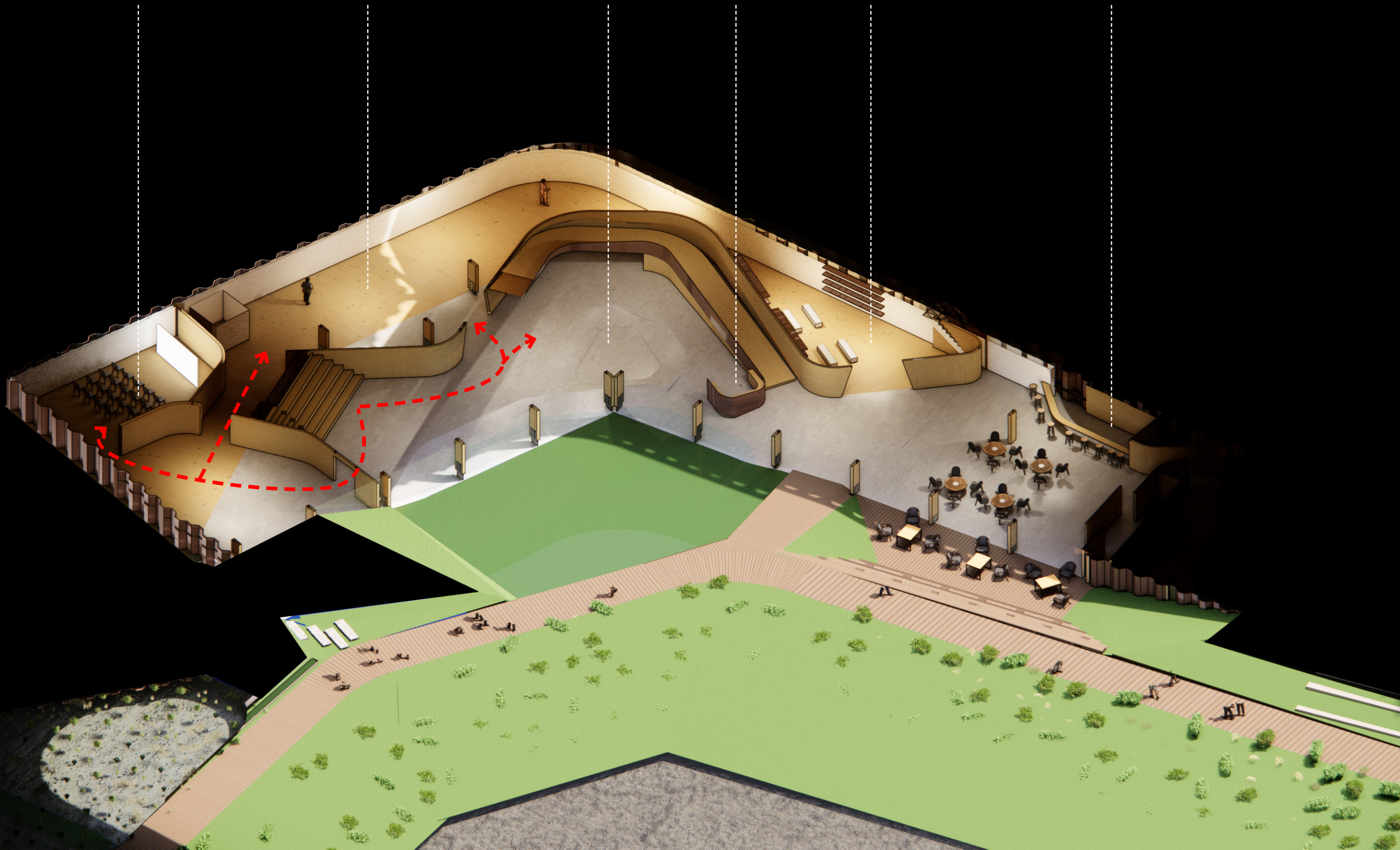
Exhibition Space

Water exhibit

Reception

Bookstore

Cafe



AV Exhibition

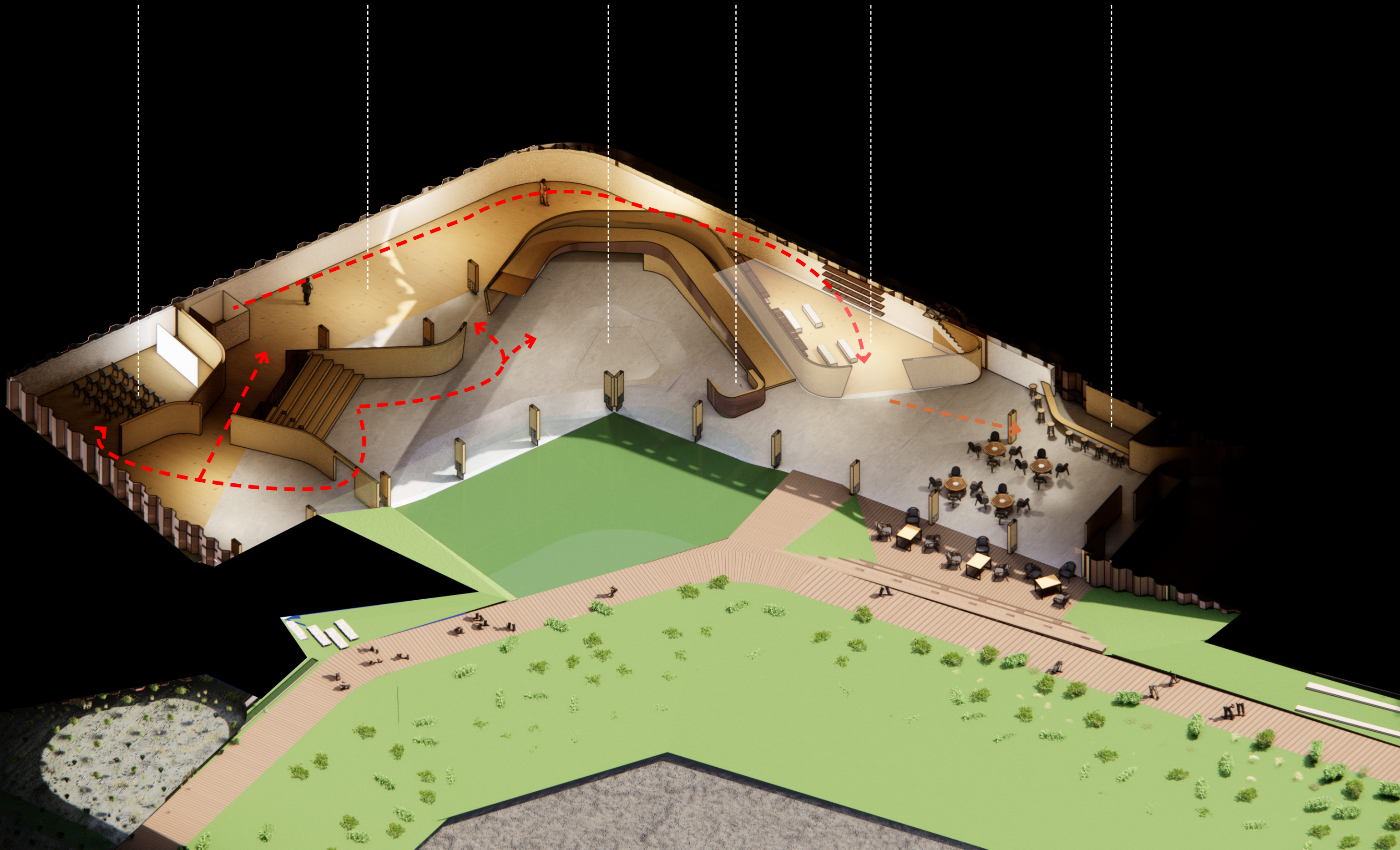
Exhibition Space

Water exhibit

Reception

Bookstore

Cafe



AV Exhibition

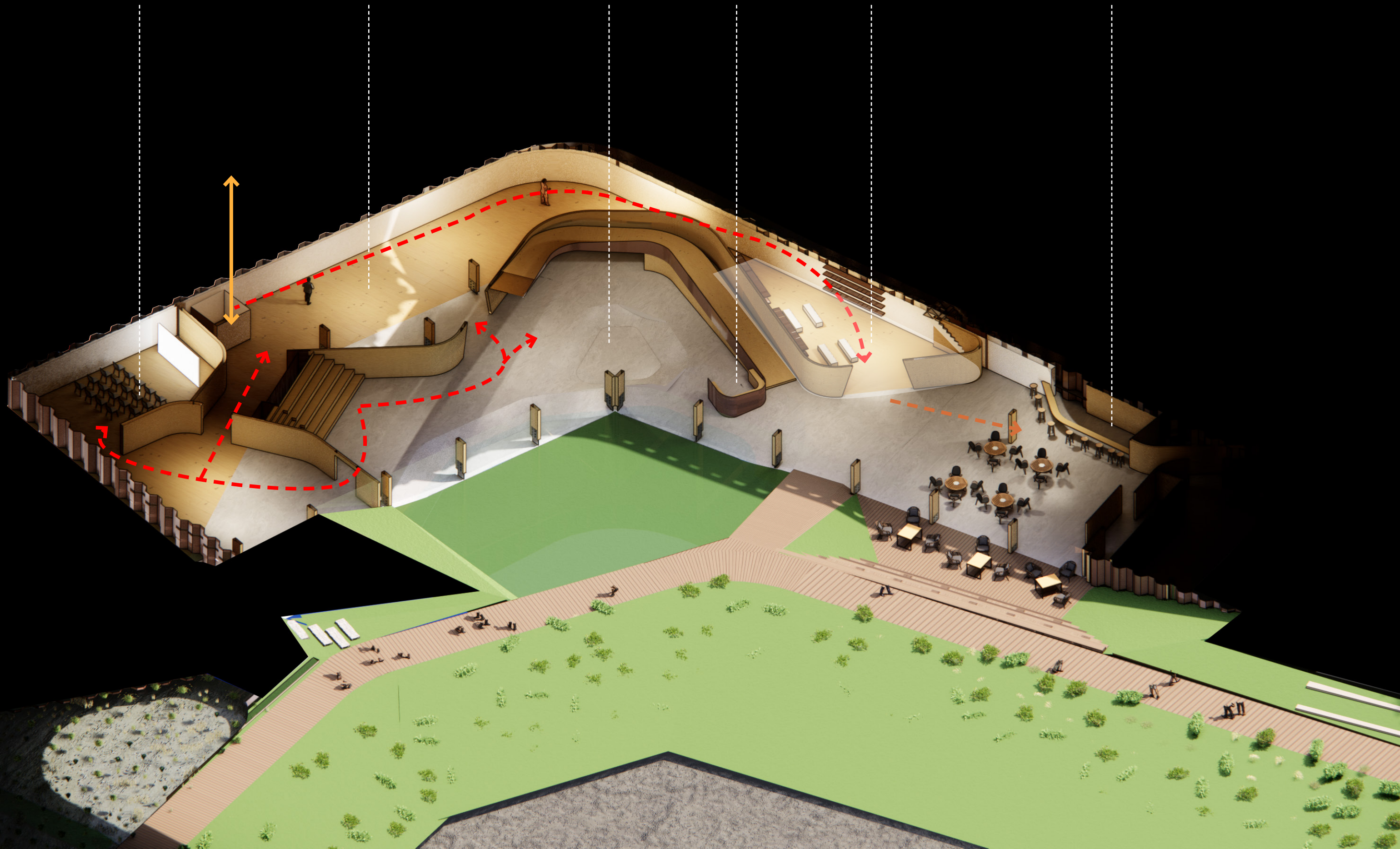
Exhibition Space

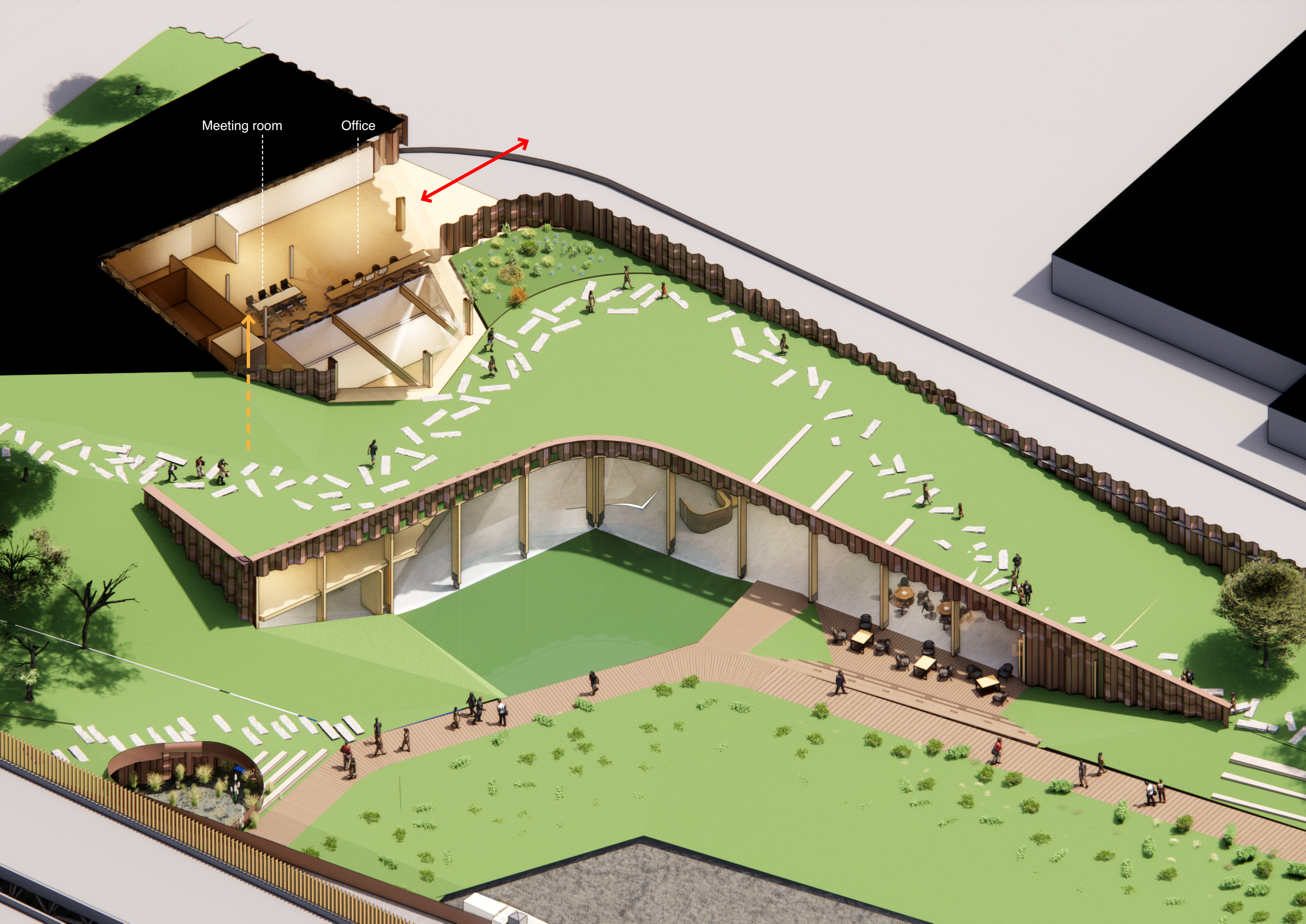
Water exhibit

Reception

Bookstore

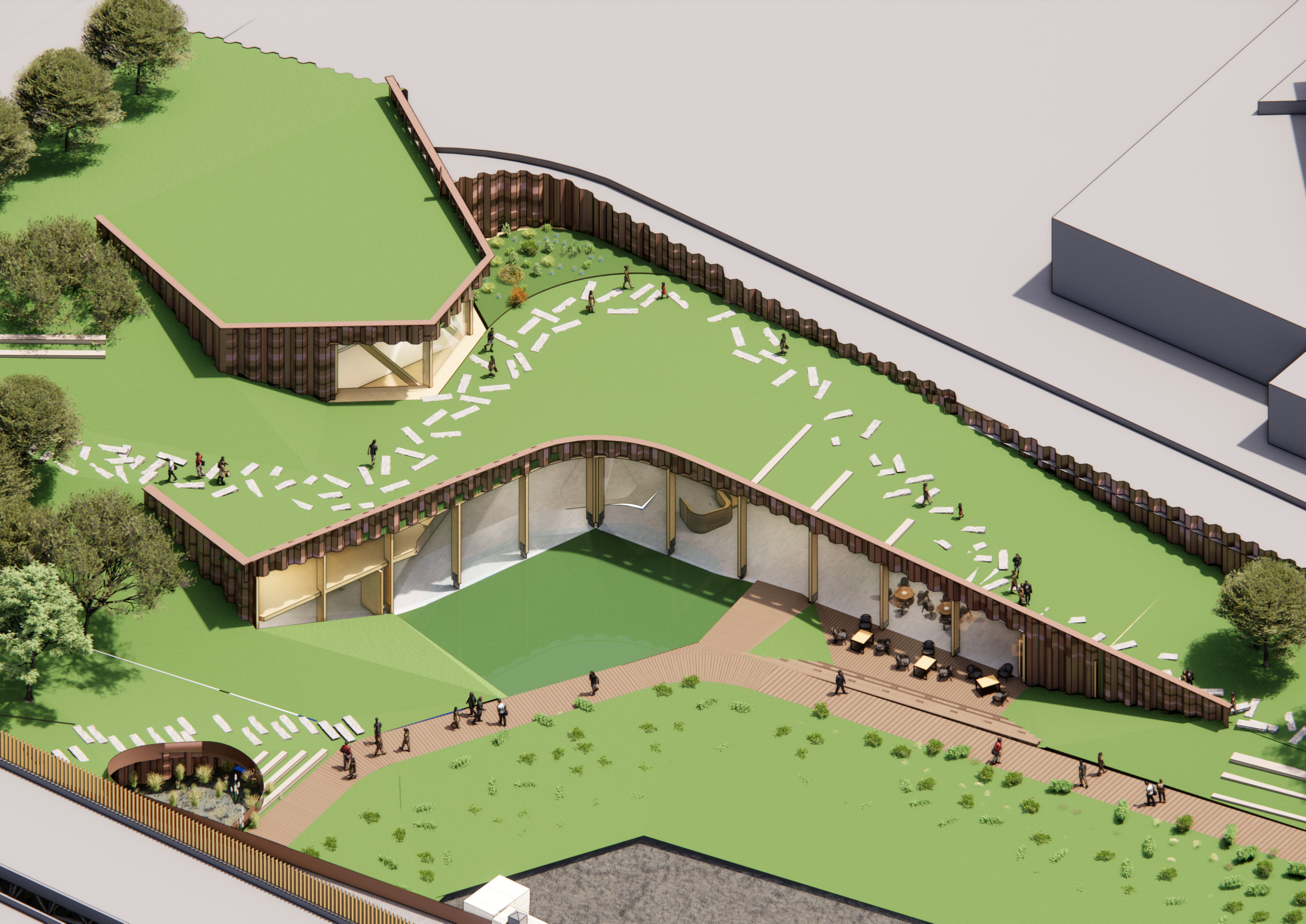
Cafe



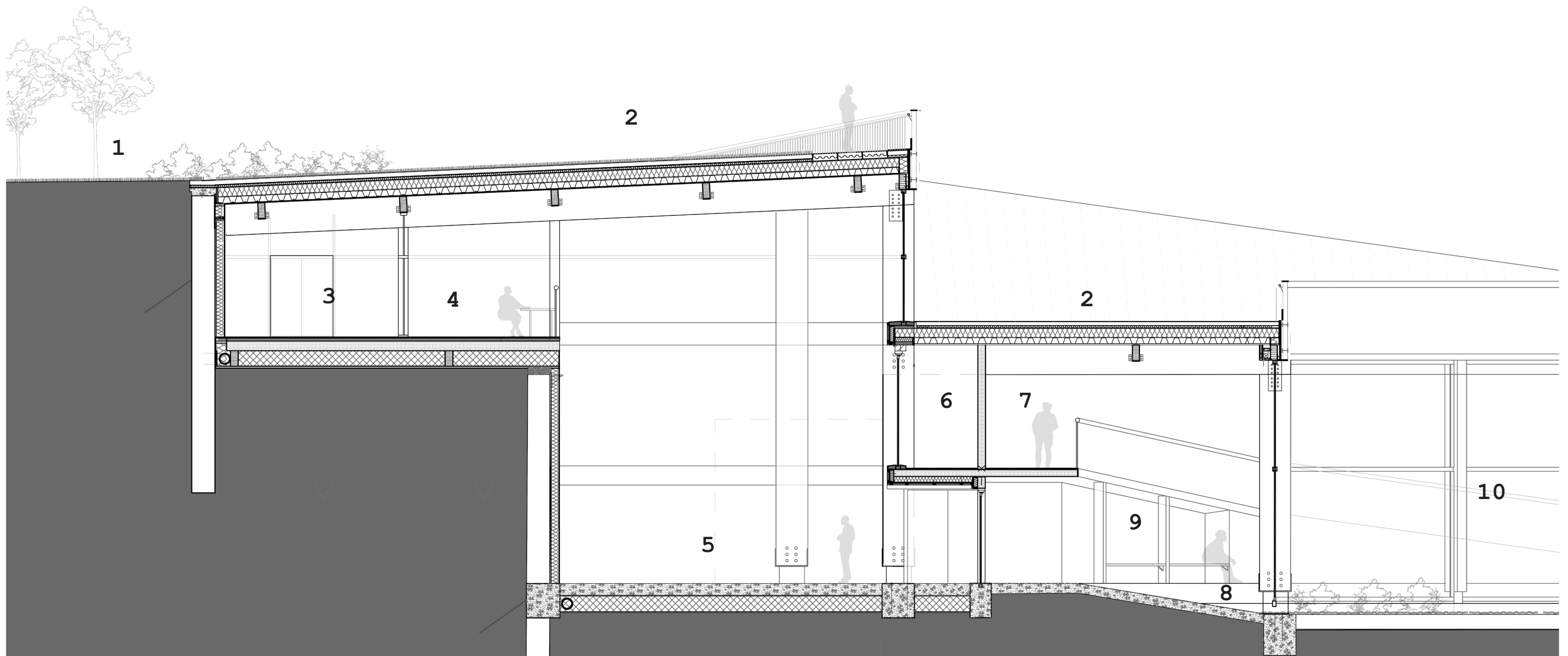


Meeting room

Office

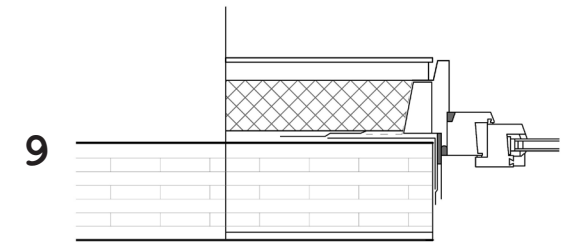
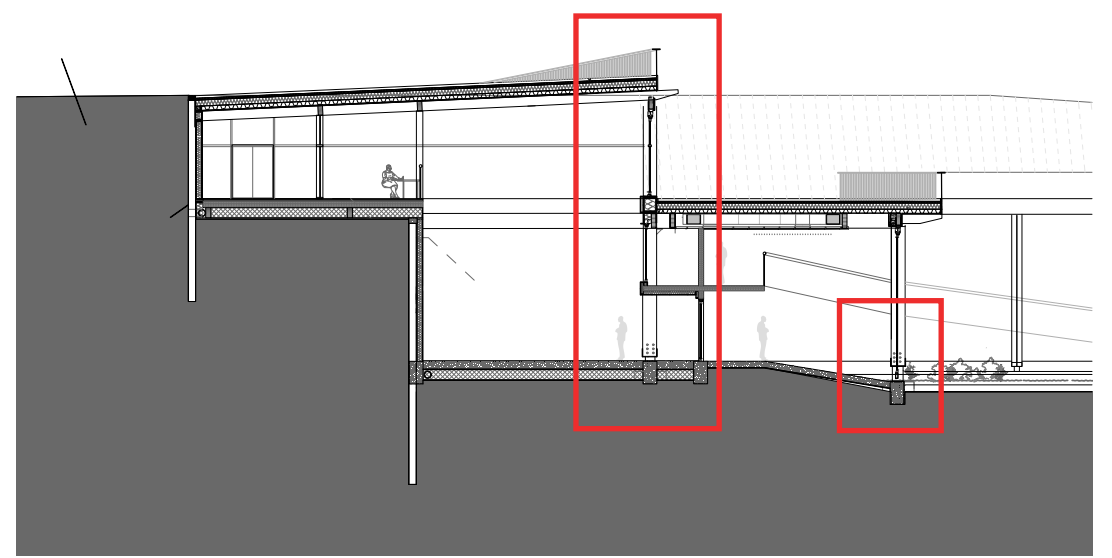
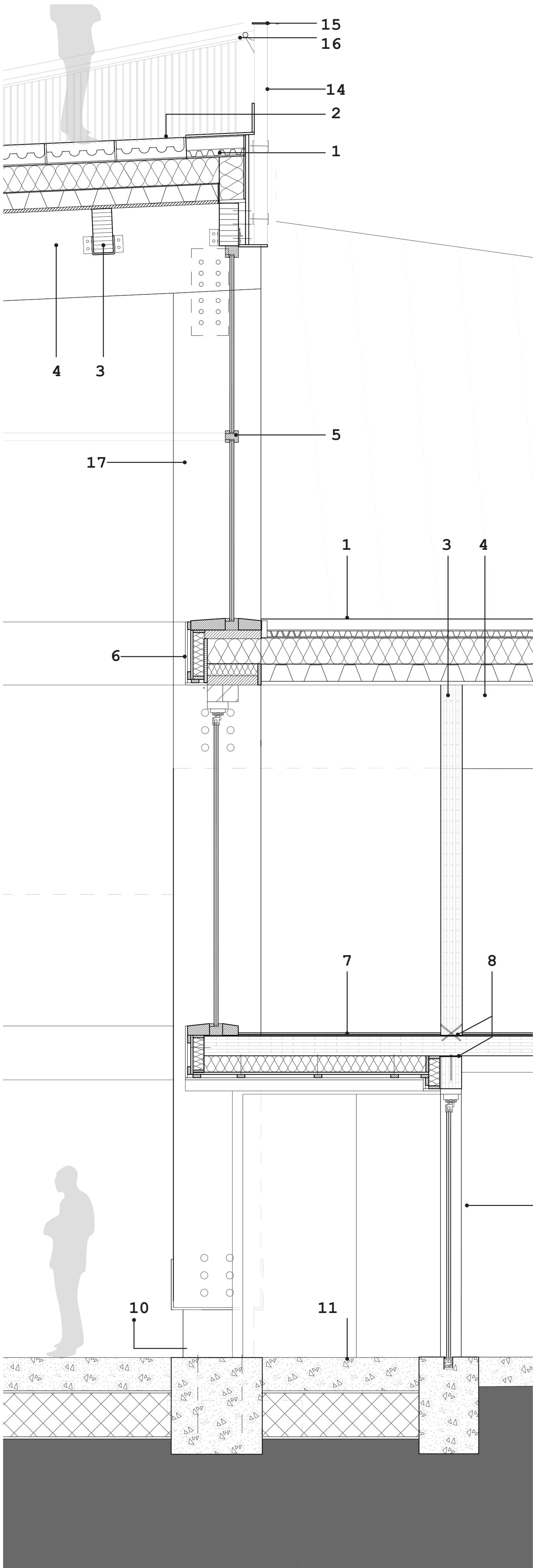






1. Sidewalk
2. Green roof park
3. Office lobby
4. Office
5. Atrium exhibition space
6. Staff corridor
7. Museum ramp access
8. Water exhibition
9. Bench
10. In-built benches

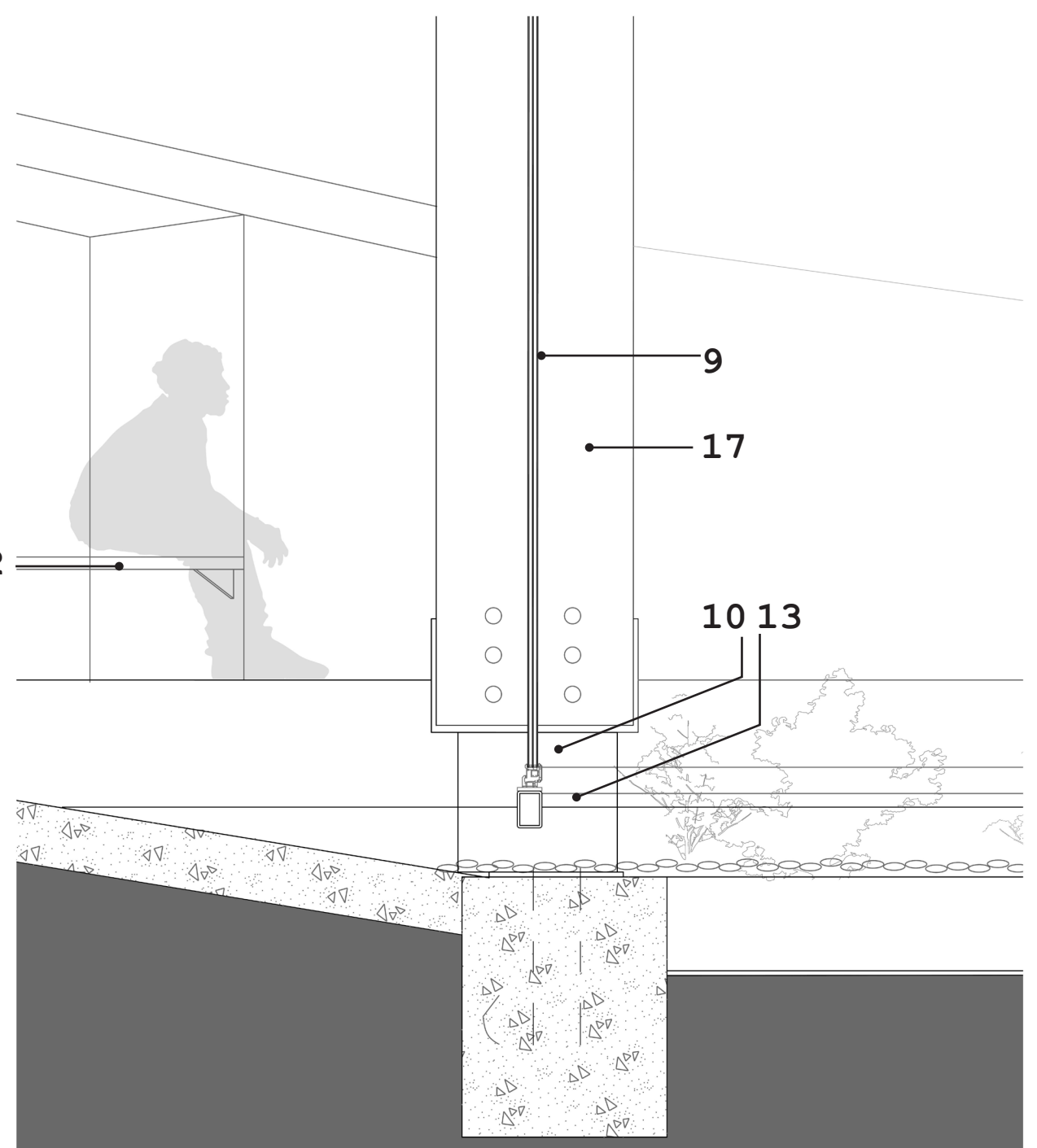
Museum section
1:100



CLT+ window frame connection
1.10 horizontal section

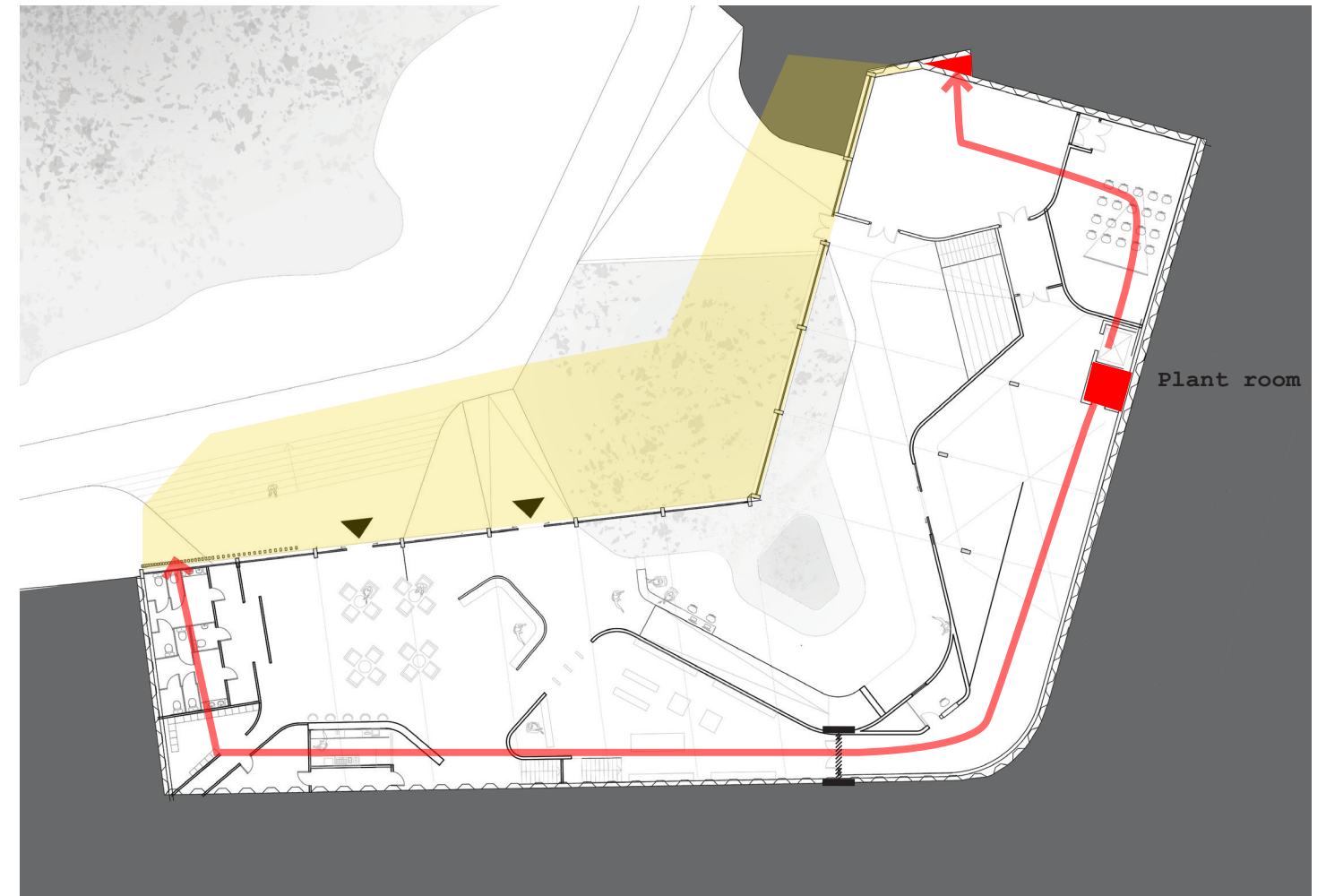
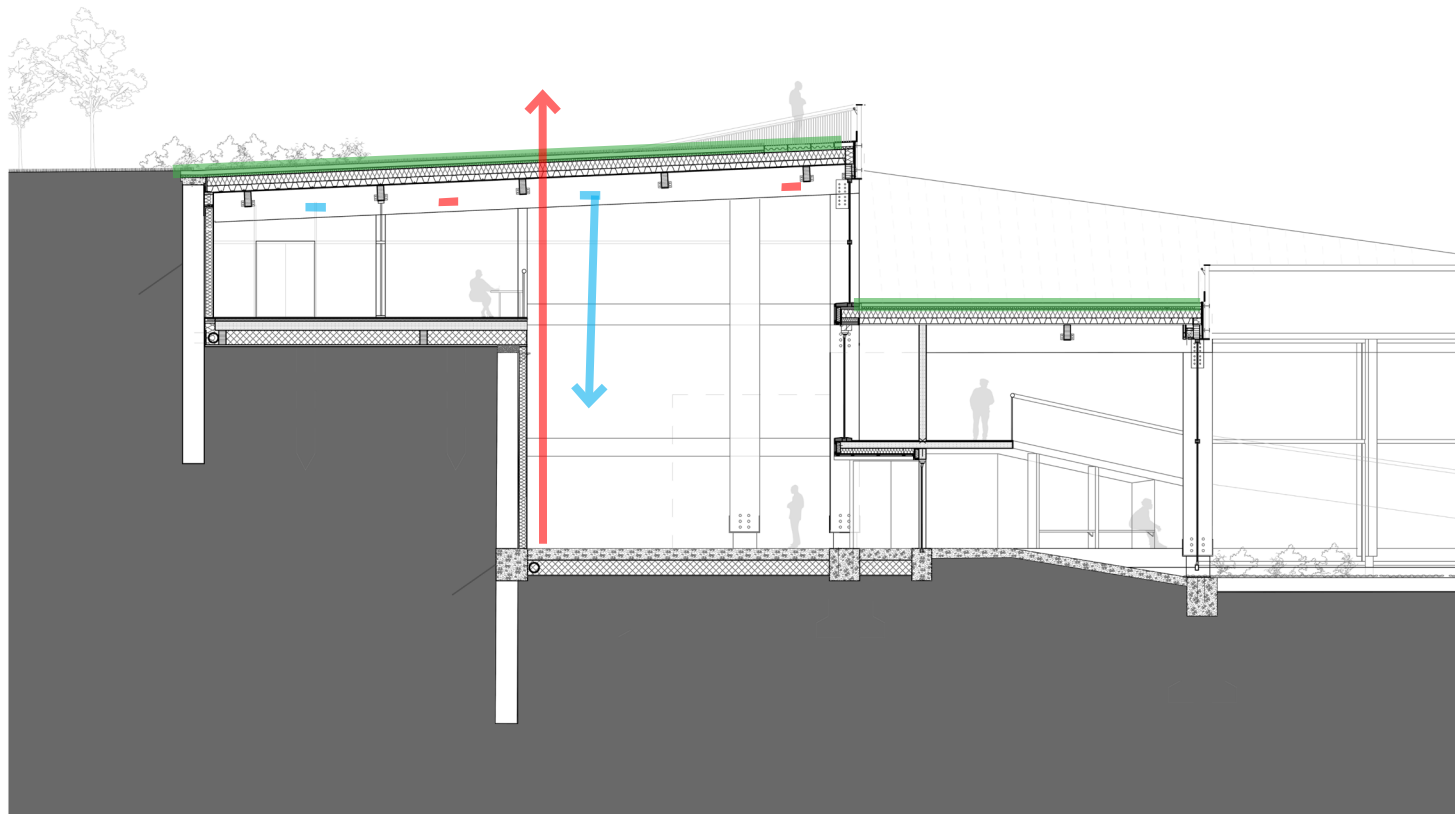
Manzanares museum section 1:25

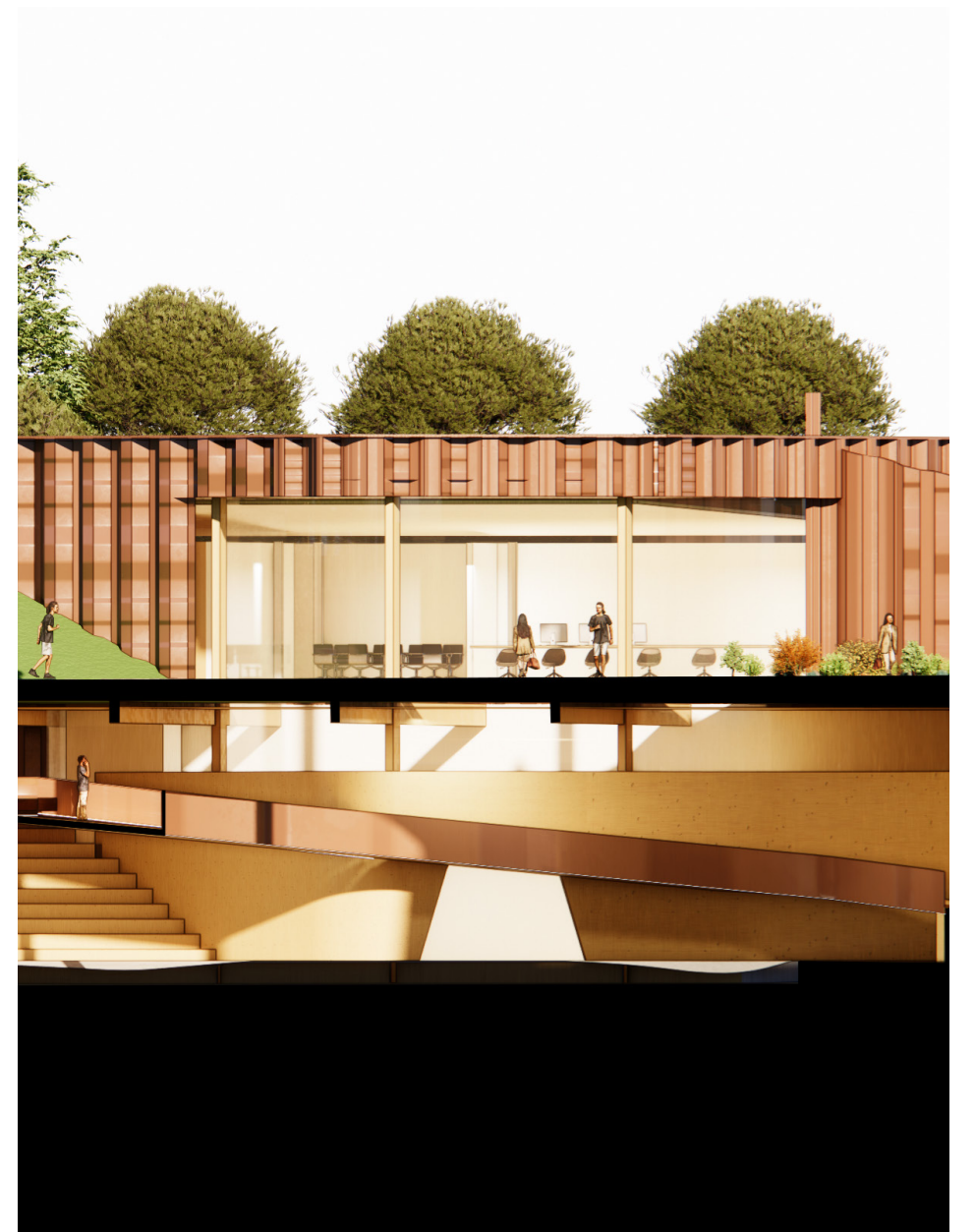
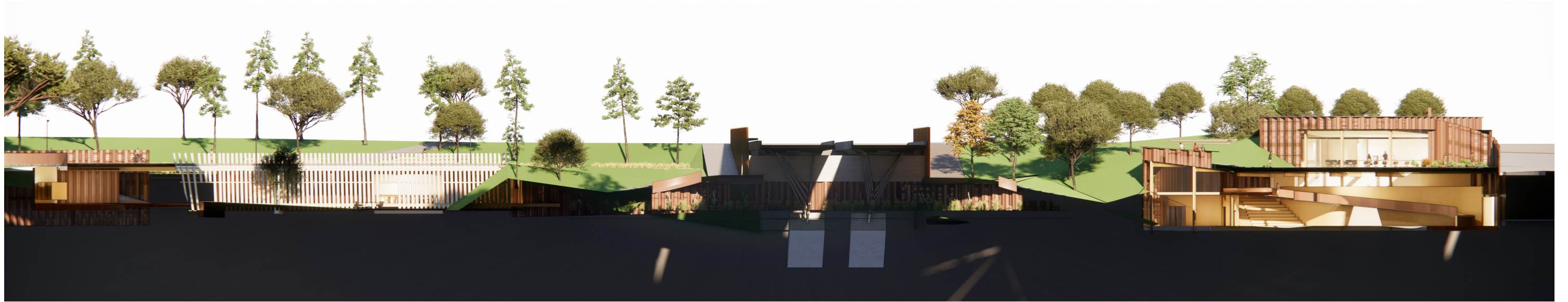
- | | |
|--|---|
| 1. extensive green roof structure:
sedum blanket
sedum substrate
filter fleece
bio drain
root barrier
rubber EPDM membrane
sheet pile
OSB panel | 7.
pine board finish
15mm impact insulation
180 mm 7-layer CLT slab
100mm inlaid mineral wool thermal
insulation, glass fleece laminated |
| 2. RoofStone integrated pavers | 8. vapour barrier |
| 3. 400x180 gluelam beam
bent steel hanger | 9. batten |
| 4. 800x240 gluelam beam | 10. 15 mm OSB, white painted finish
wood screws, CLT seal |
| 5. chestnut post-and-rail facade with
thermal glazing | 11. triple glazing in aluminium frame
stainless steel baseplate |
| 6. 15 mm OSB, white painted finish
450mm mineral wool insulation
100mm inlaid mineral wool thermal
insulation,
glass fleece laminated
vapour barrier
batten
15 mm OSB, white painted finish | 12. 270mm waterproof concrete slab |
| | 13. EPS insulation
rubber EPDM membrane
foam glass aggregate
in-built bench
150x100mm stainless steel pipe |
| | 14. Corten sheet |
| | 15. Corten sheet cap |
| | 16. steel handrail on Corten steel
support brackets |
| | 17. 800x240 gluelam column |

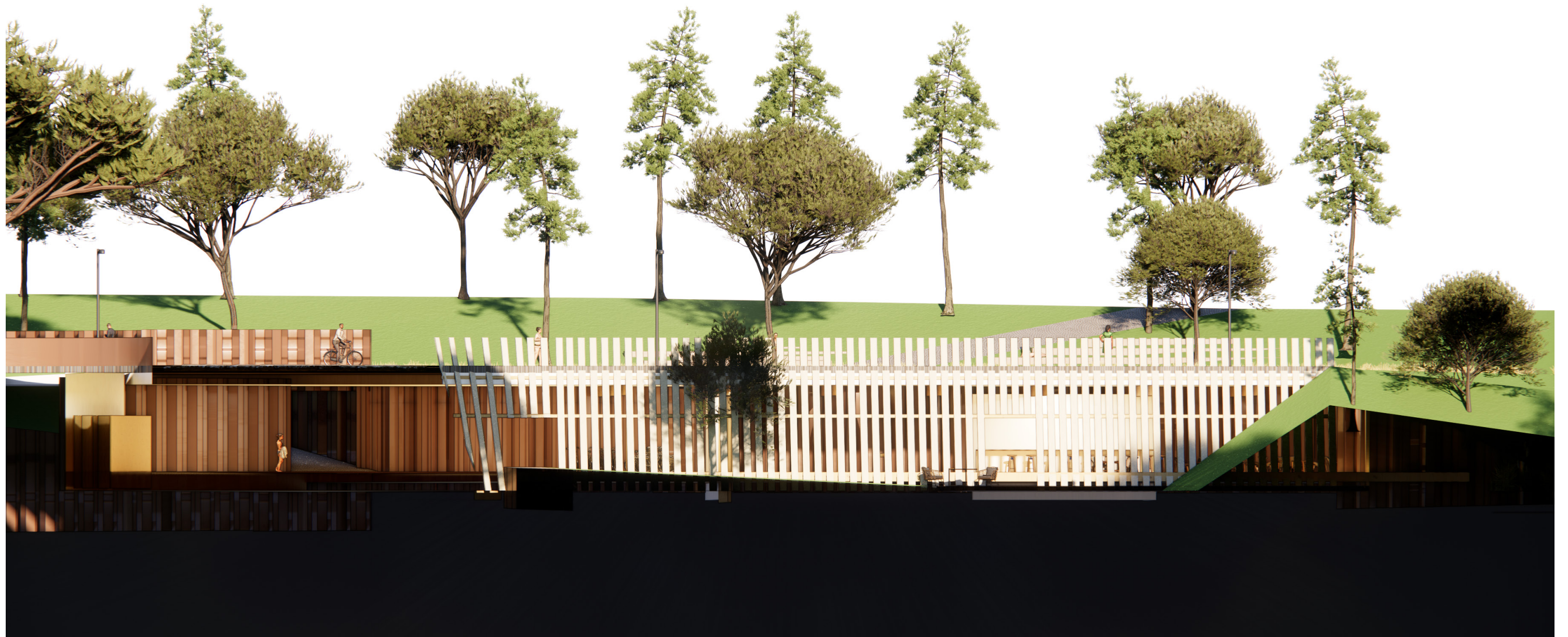


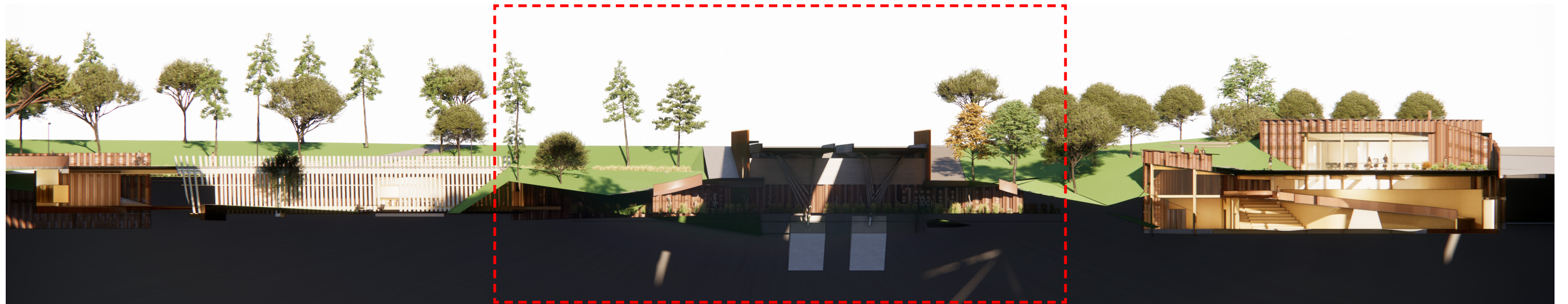


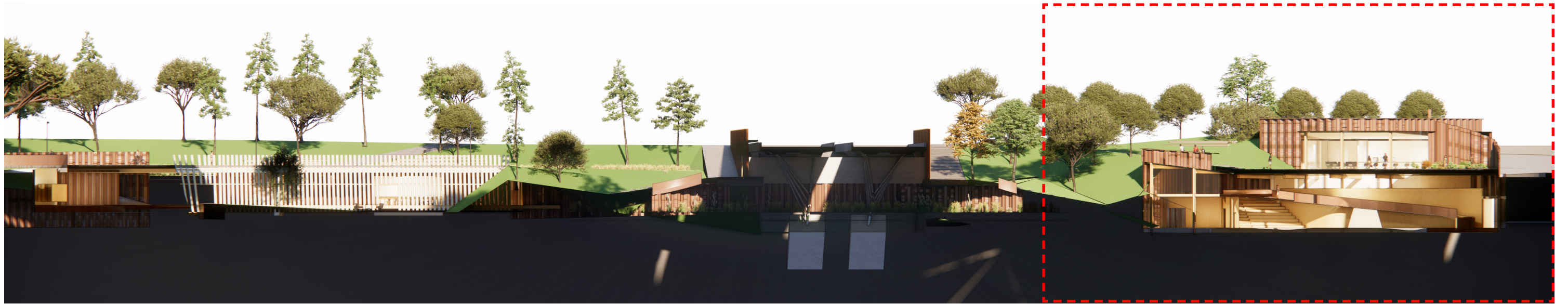
Climate diagram





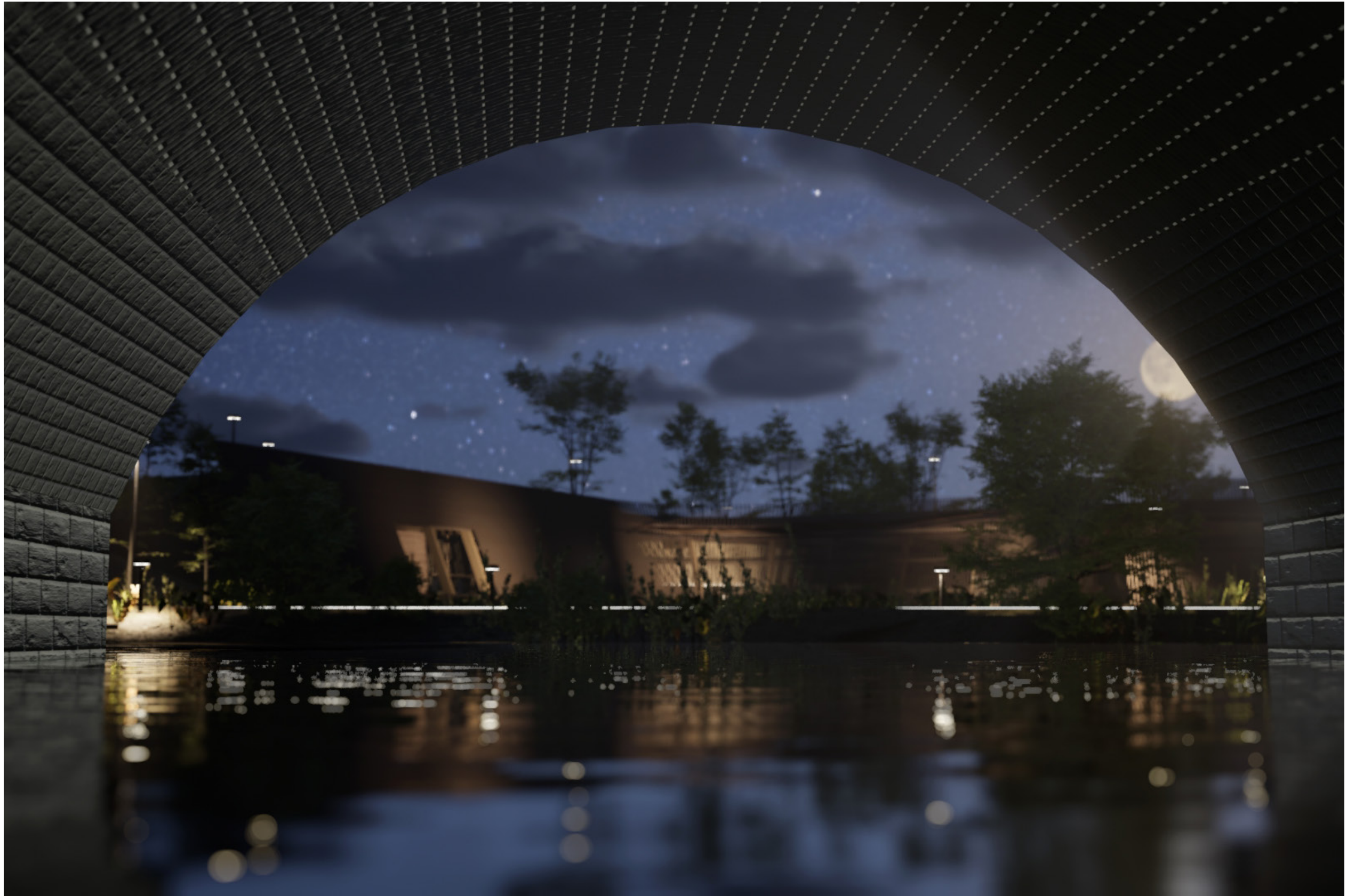




















THANK YOU!
by ADC P4 PRESENTIONS



Written by
Dinu Hoinarescu