



Berlin
Water Airport

Drawing Set

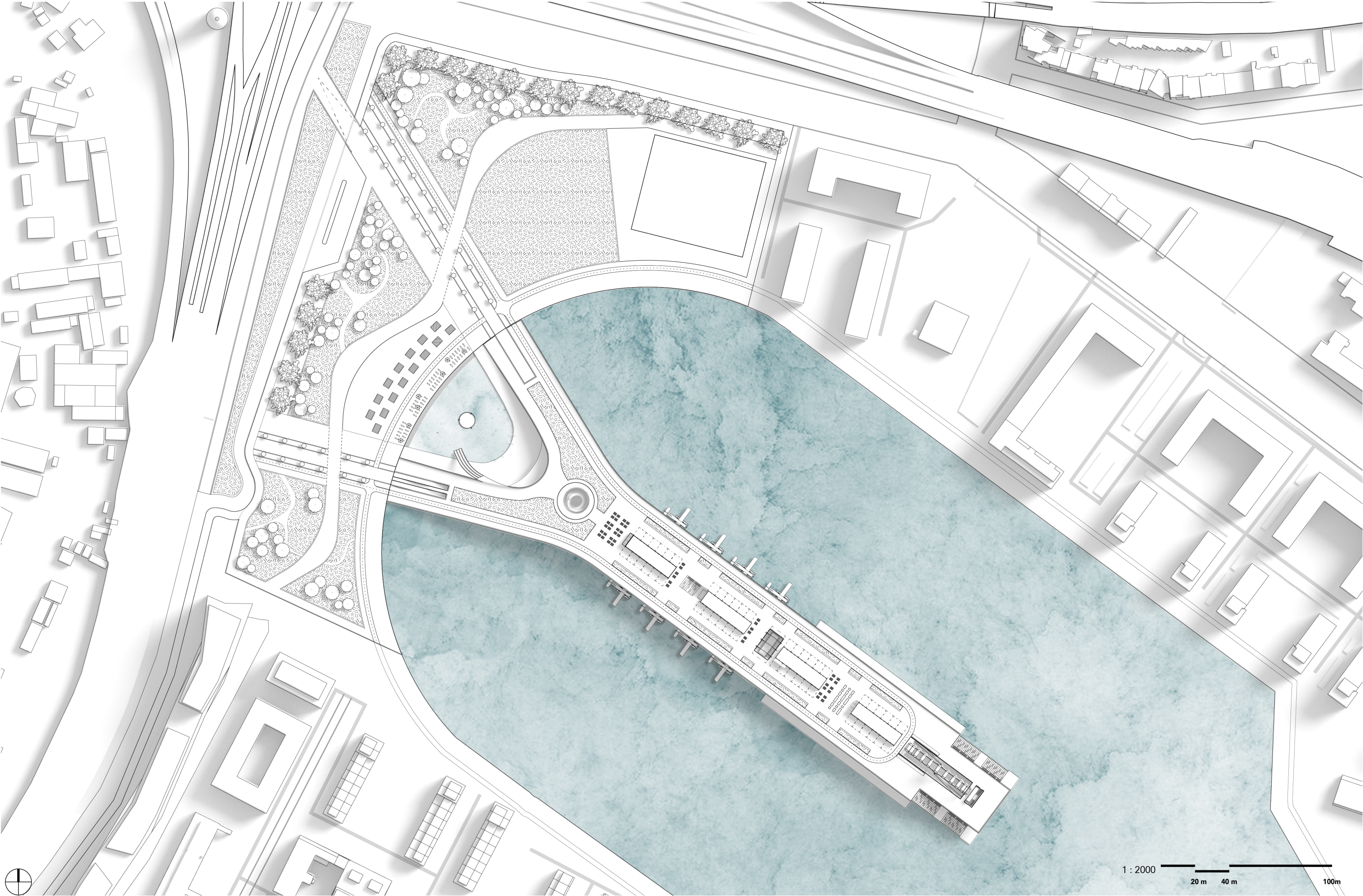
**URBAN TAKEOFF –
WATER AIRPORT OF HEALTH AND PLAY**

Chan Cheuk Lam Julia
5802164

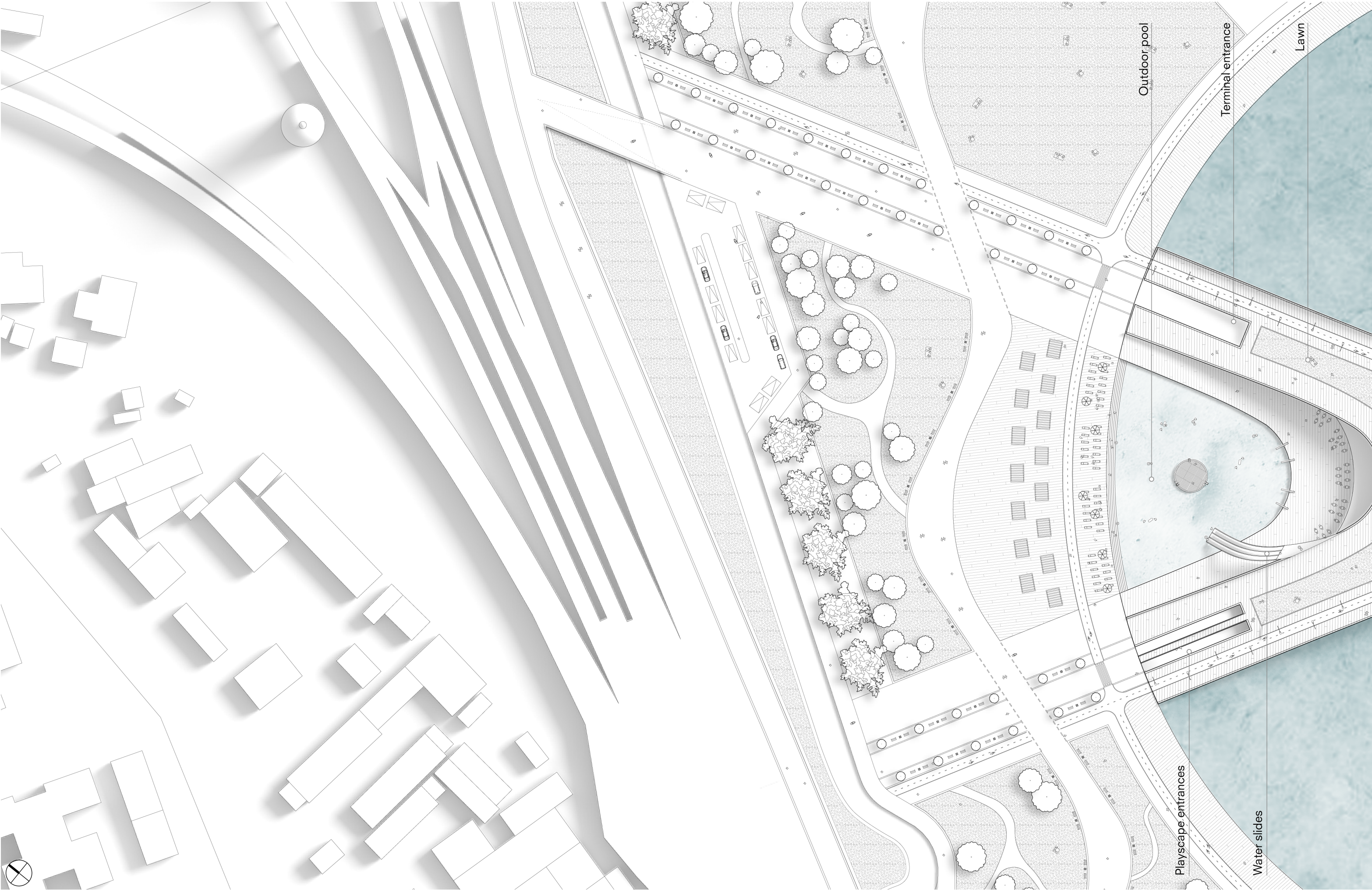
HEALTH GROUP SITE PLAN

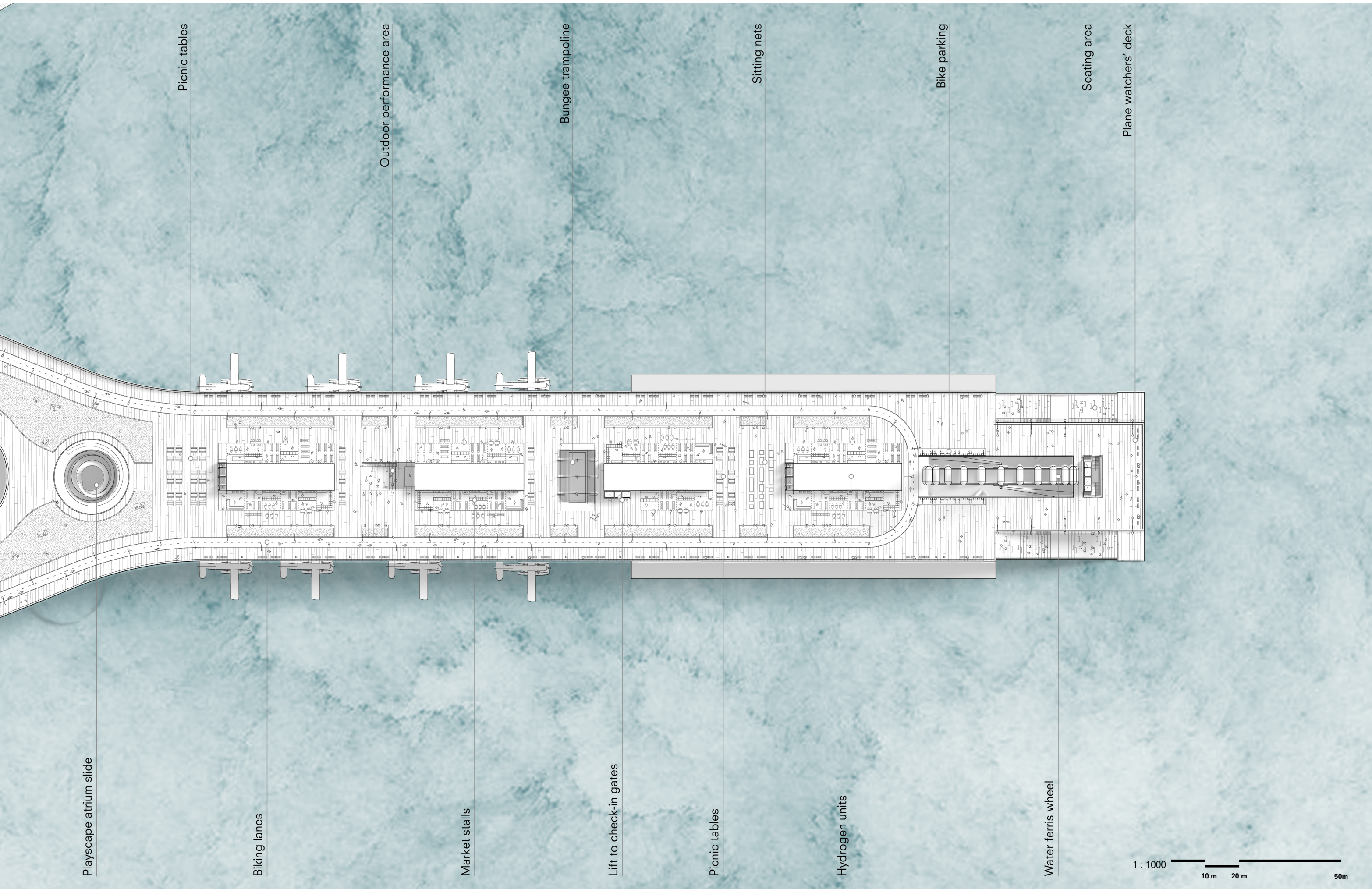


SITE PLAN

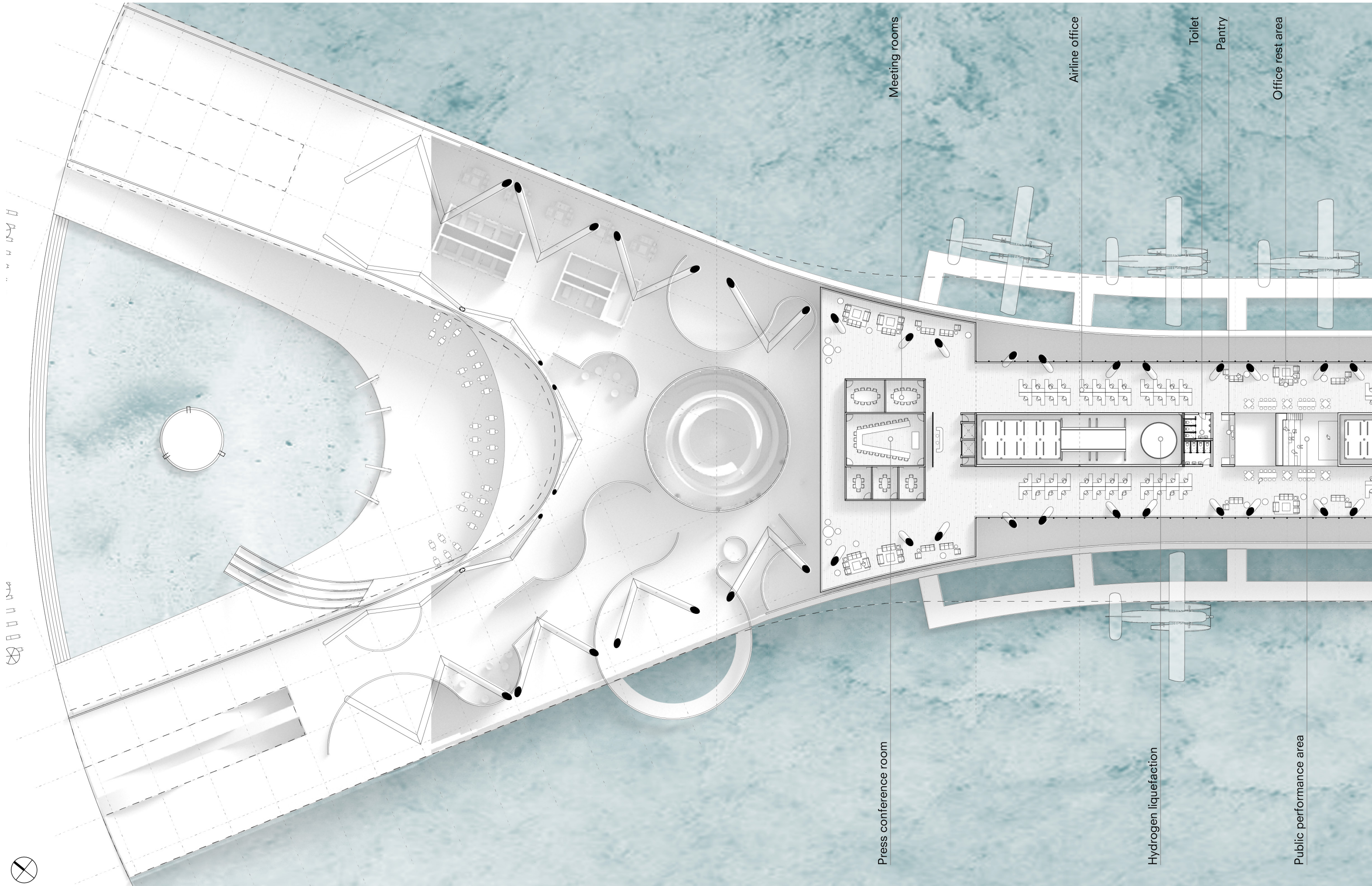


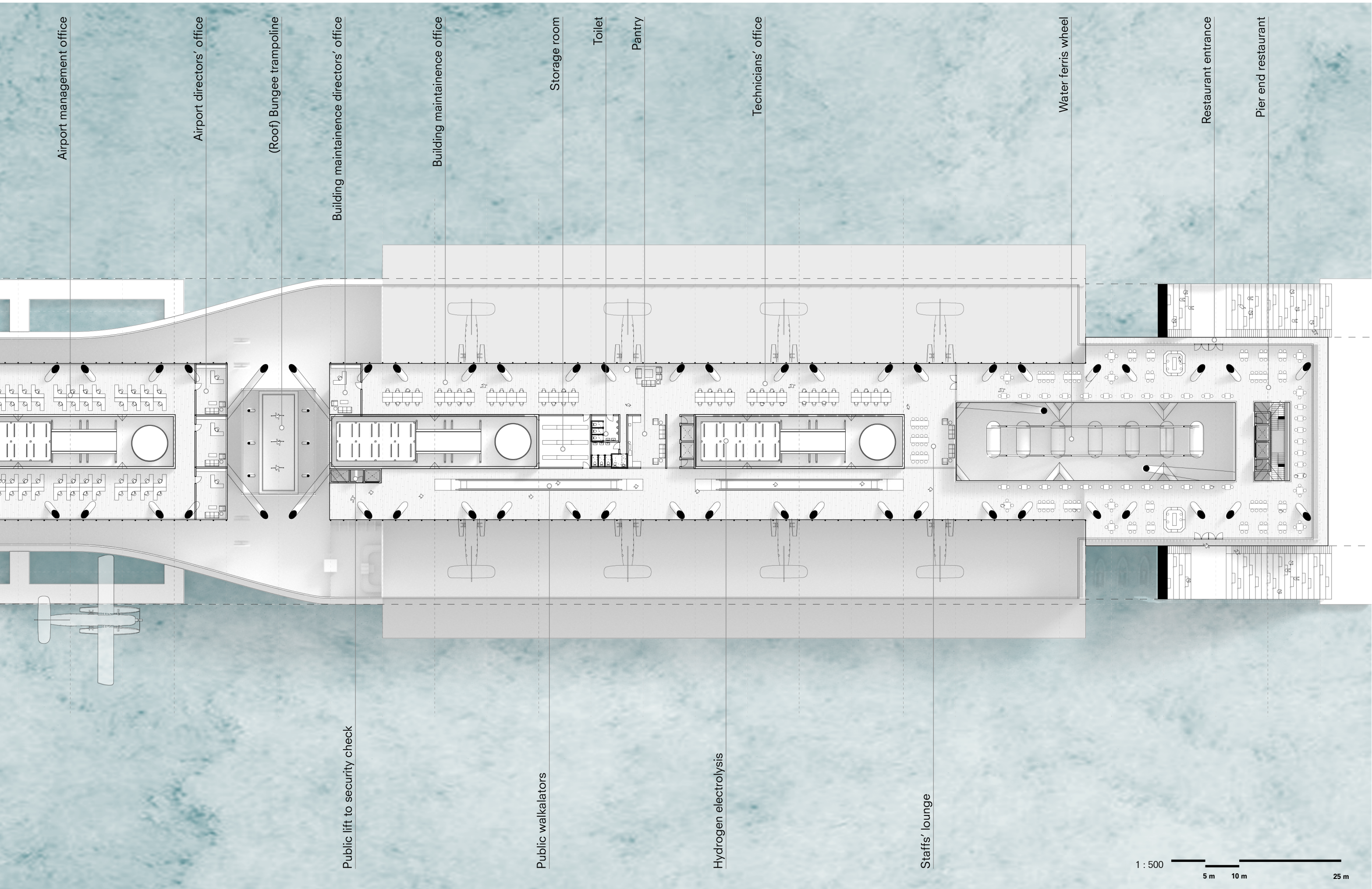
URBAN IMPLEMENTATION: ROOF PLAN



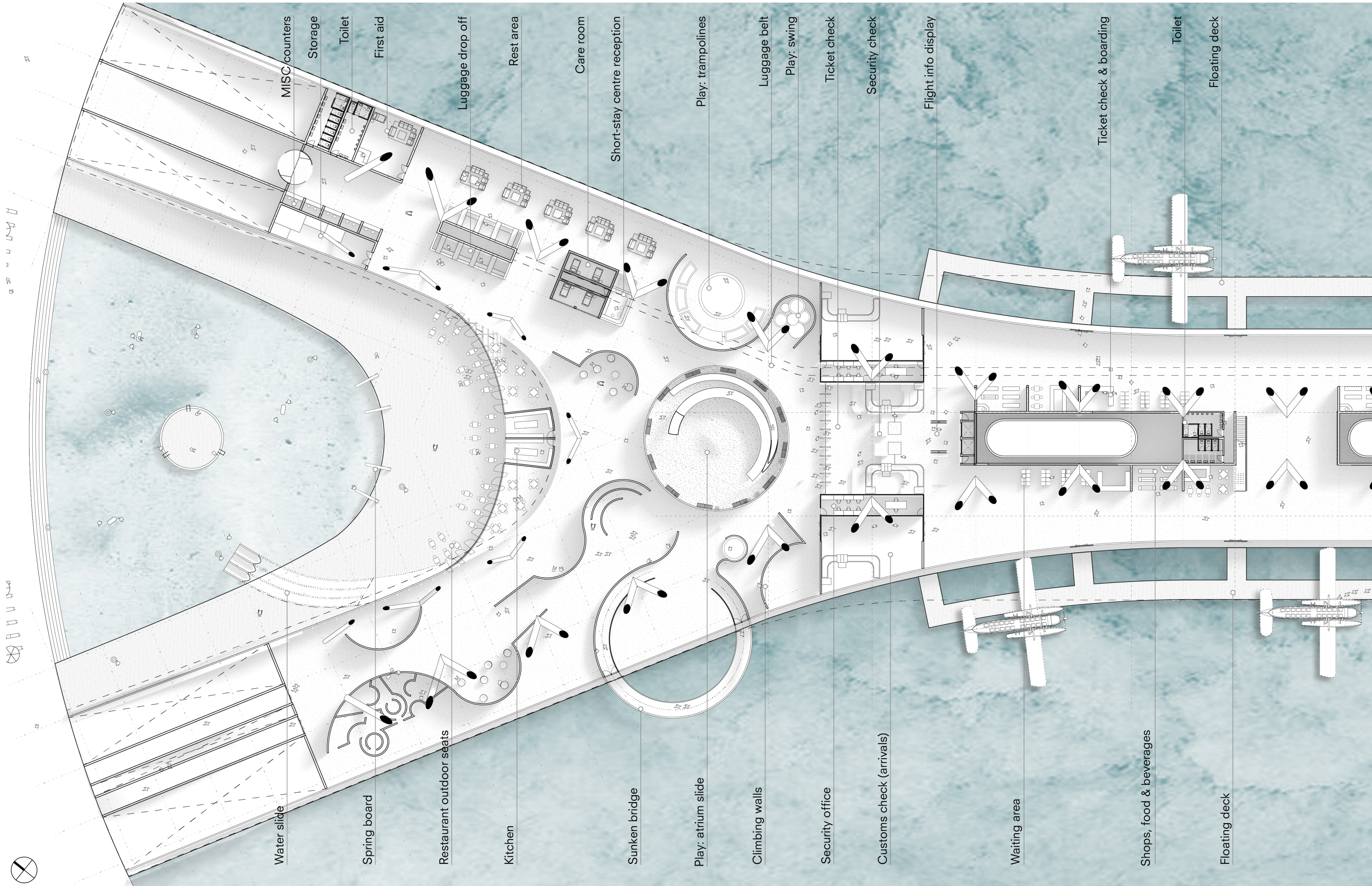


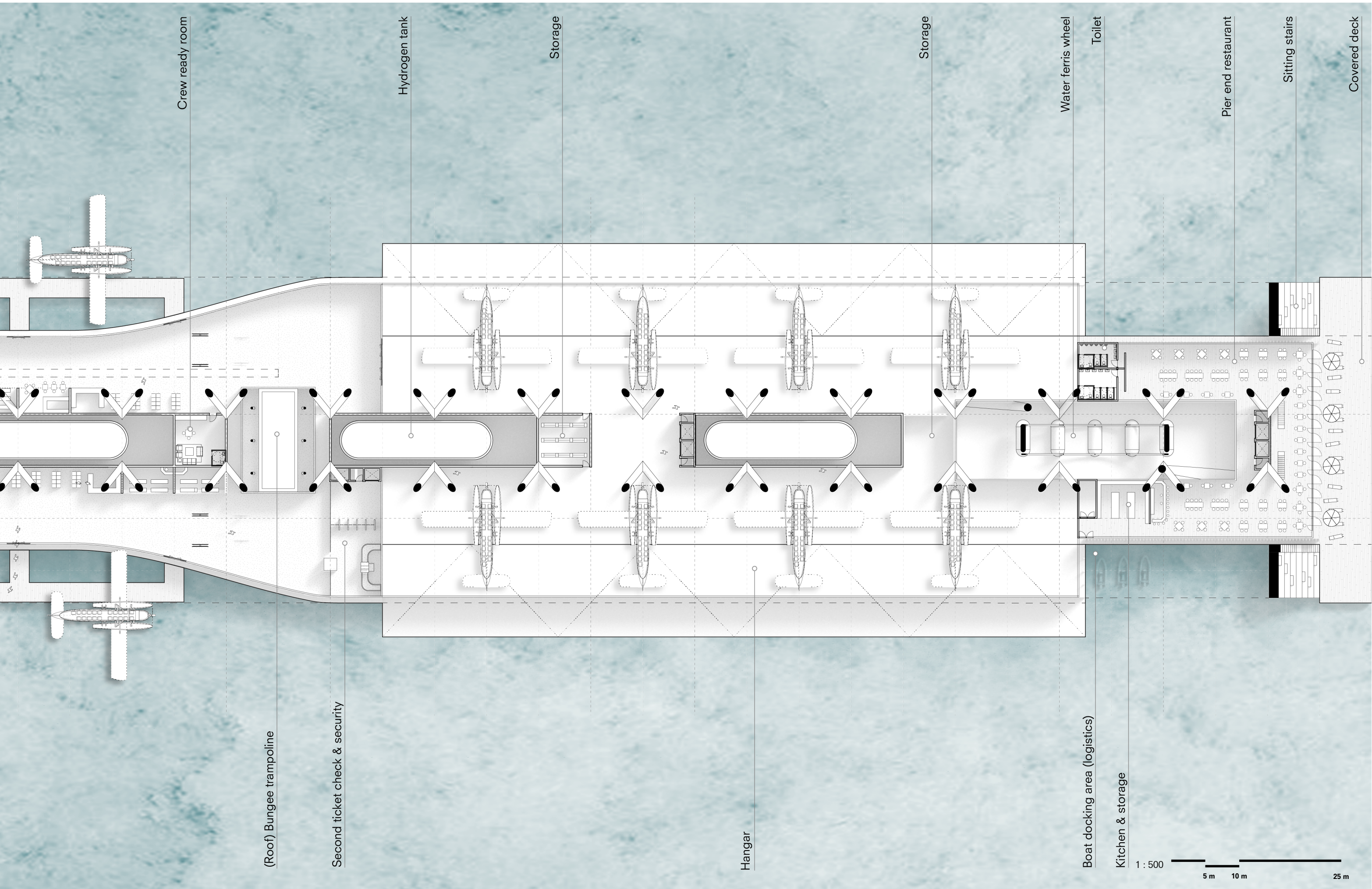
MEZZANINE FLOOR PLAN



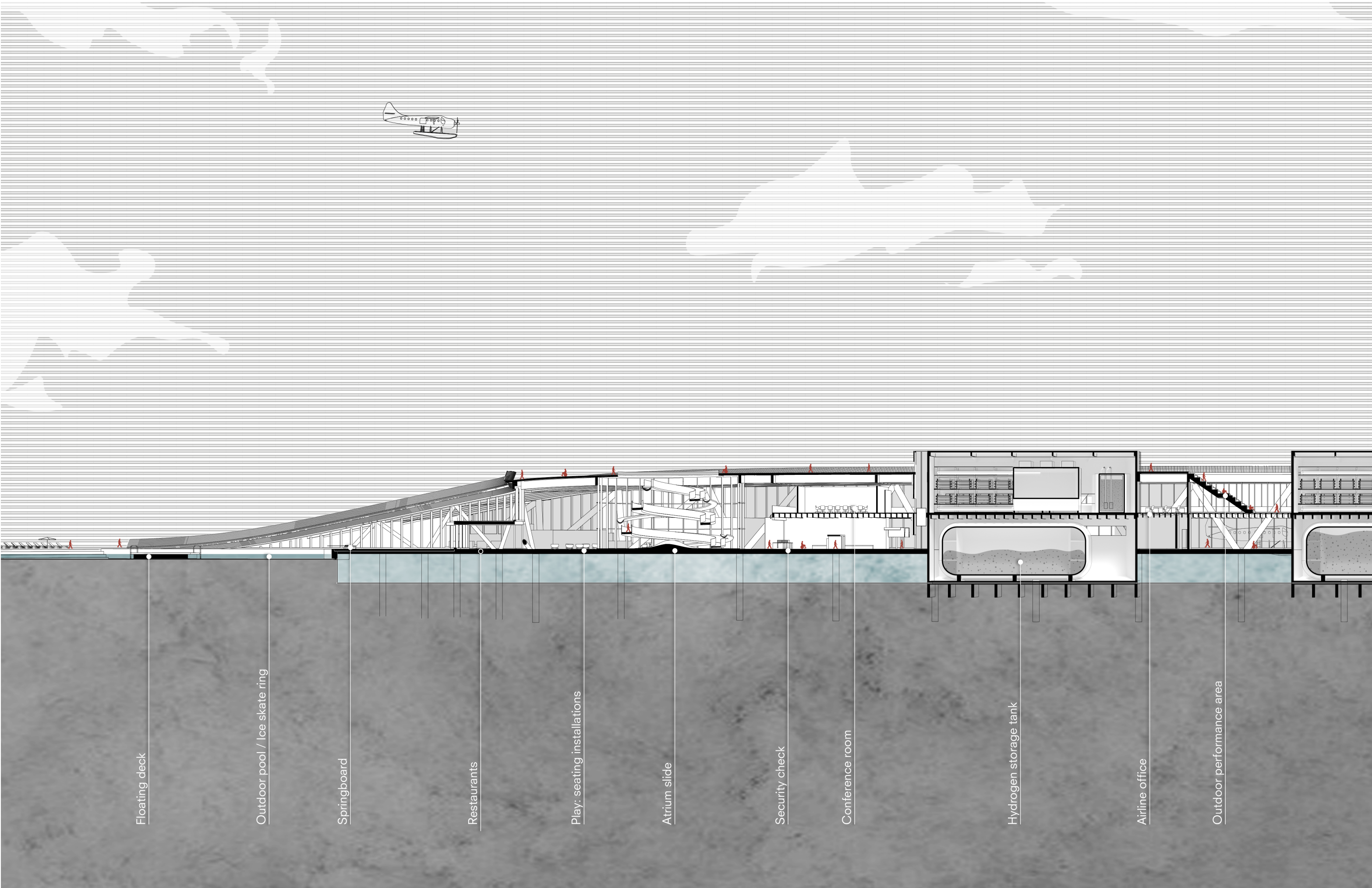


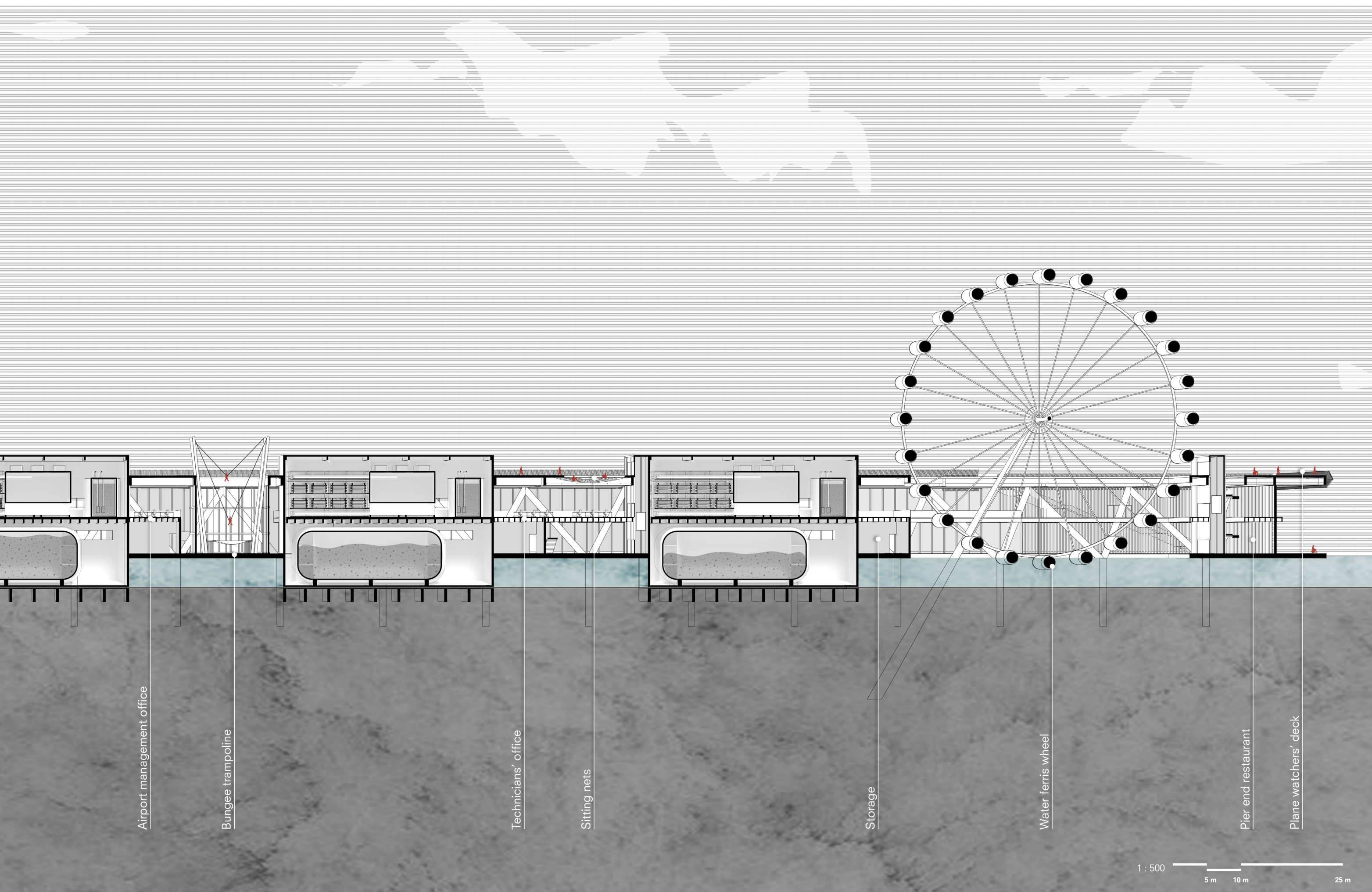
GROUND FLOOR PLAN





LONGITUDINAL SECTION





Airport management office

Bungee trampoline

Technicians' office

Sitting nets

Storage

Water ferris wheel

Pier end restaurant

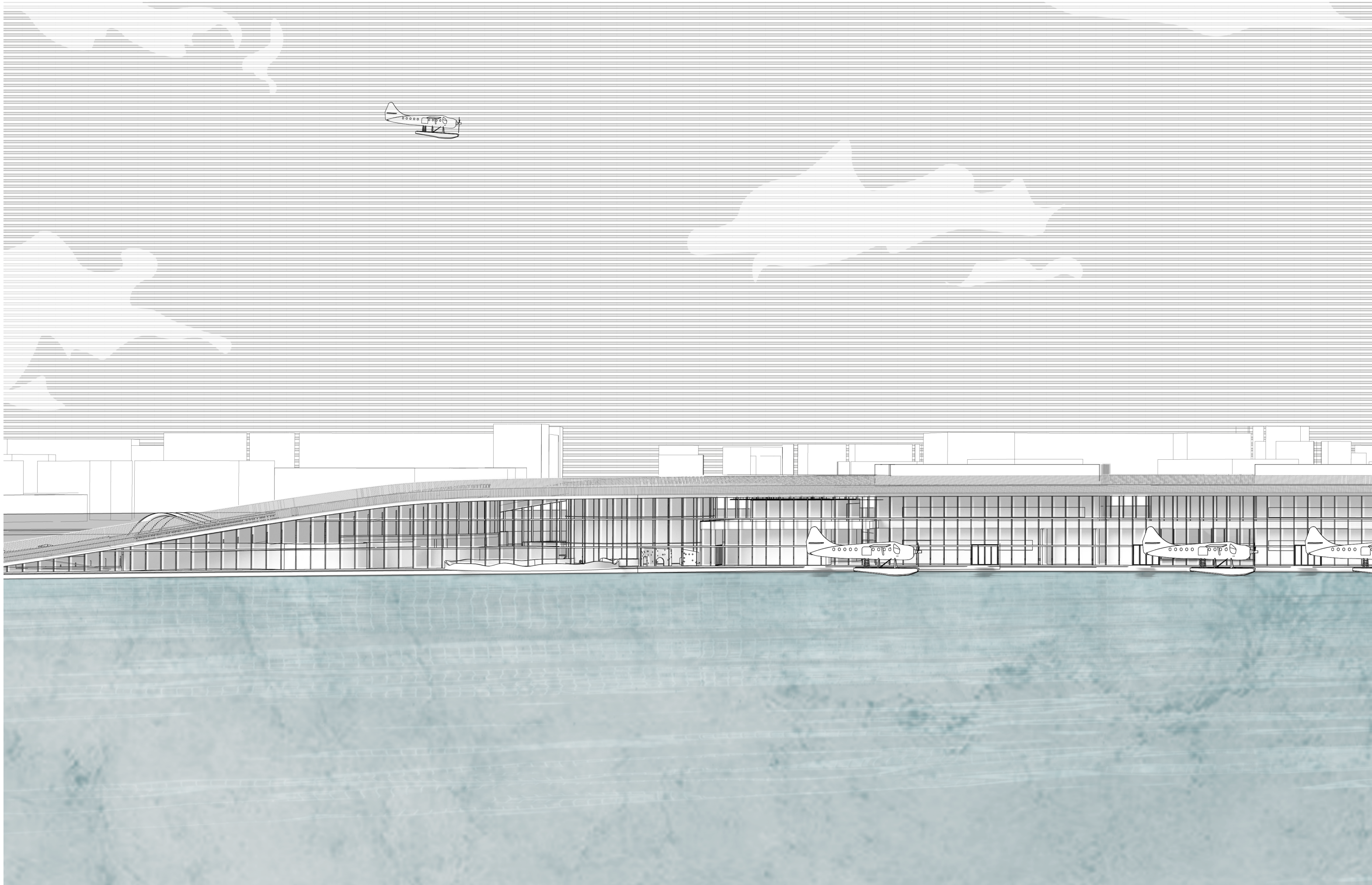
Plane watchers' deck

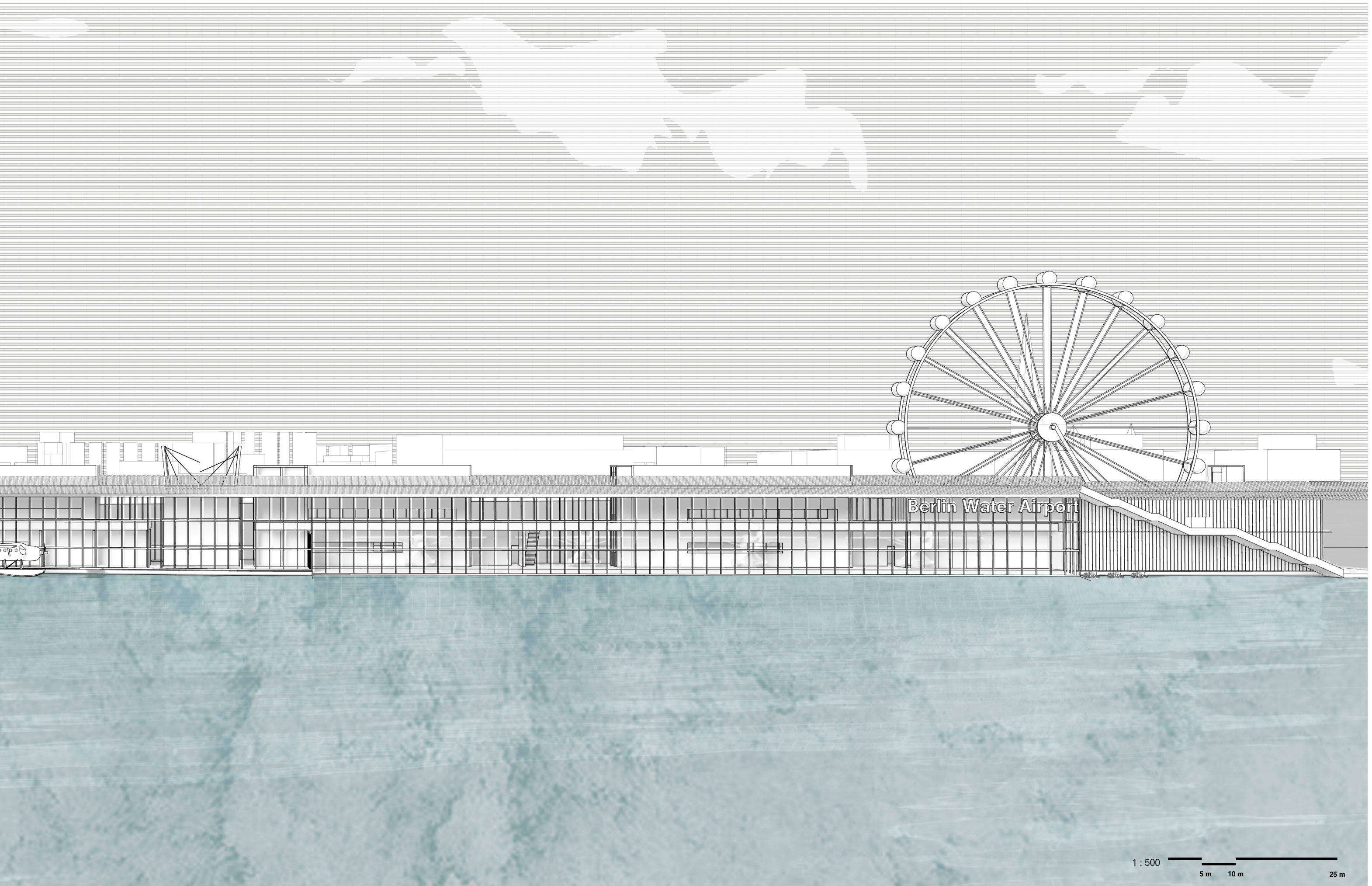
1 : 500

5 m 10 m

25 m

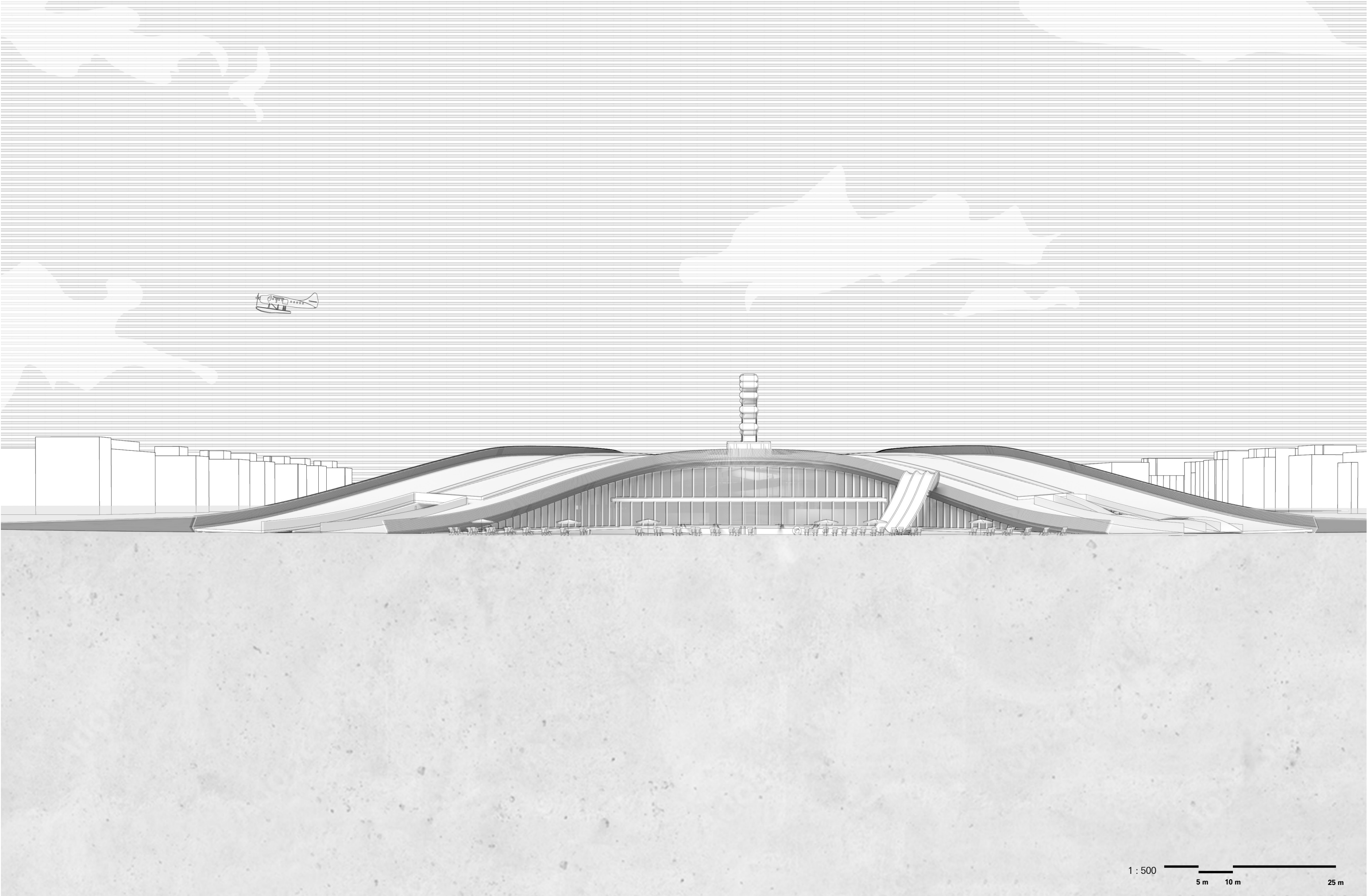
SIDE ELEVATION



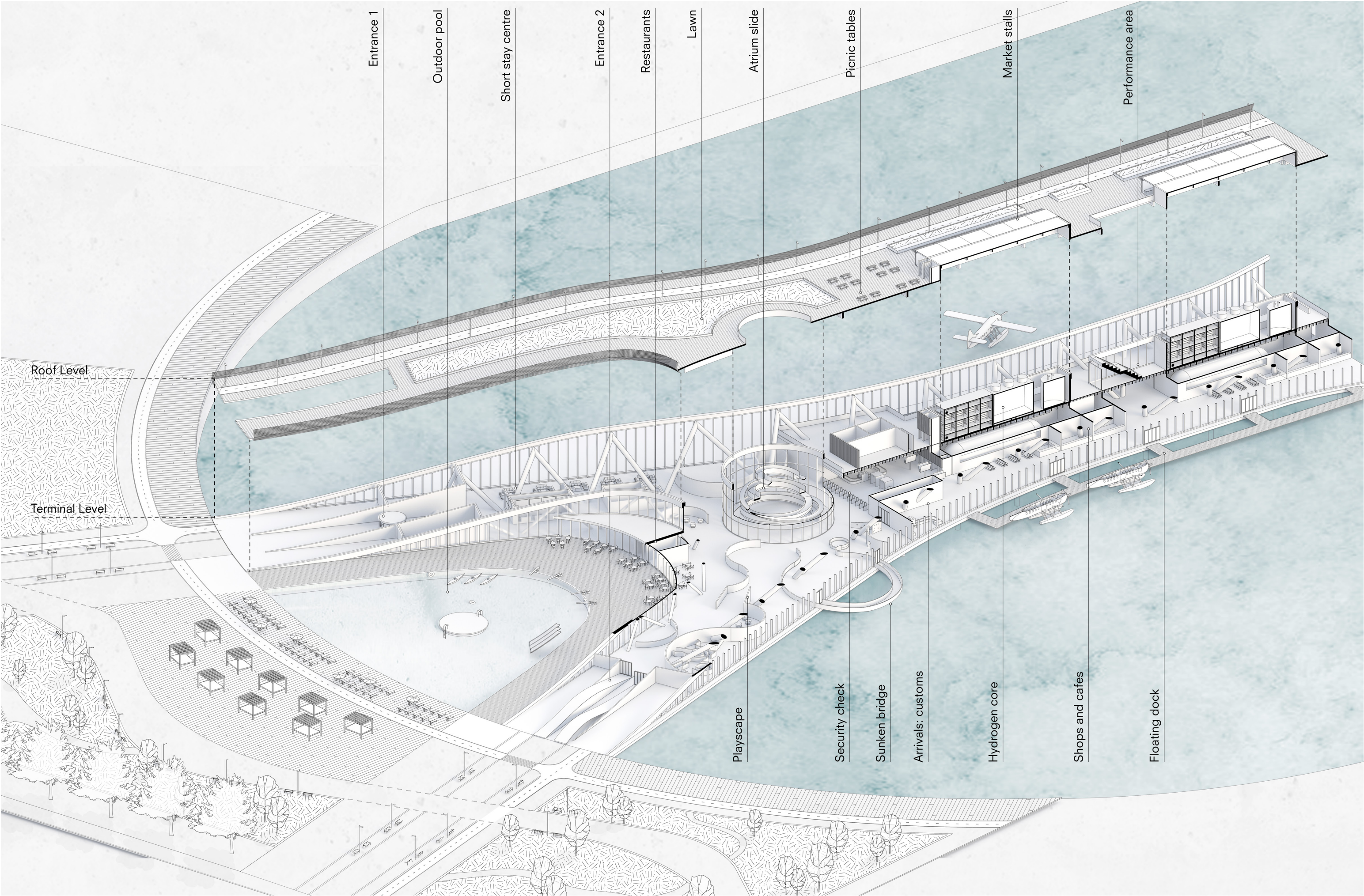


1 : 500
5 m 10 m 25 m

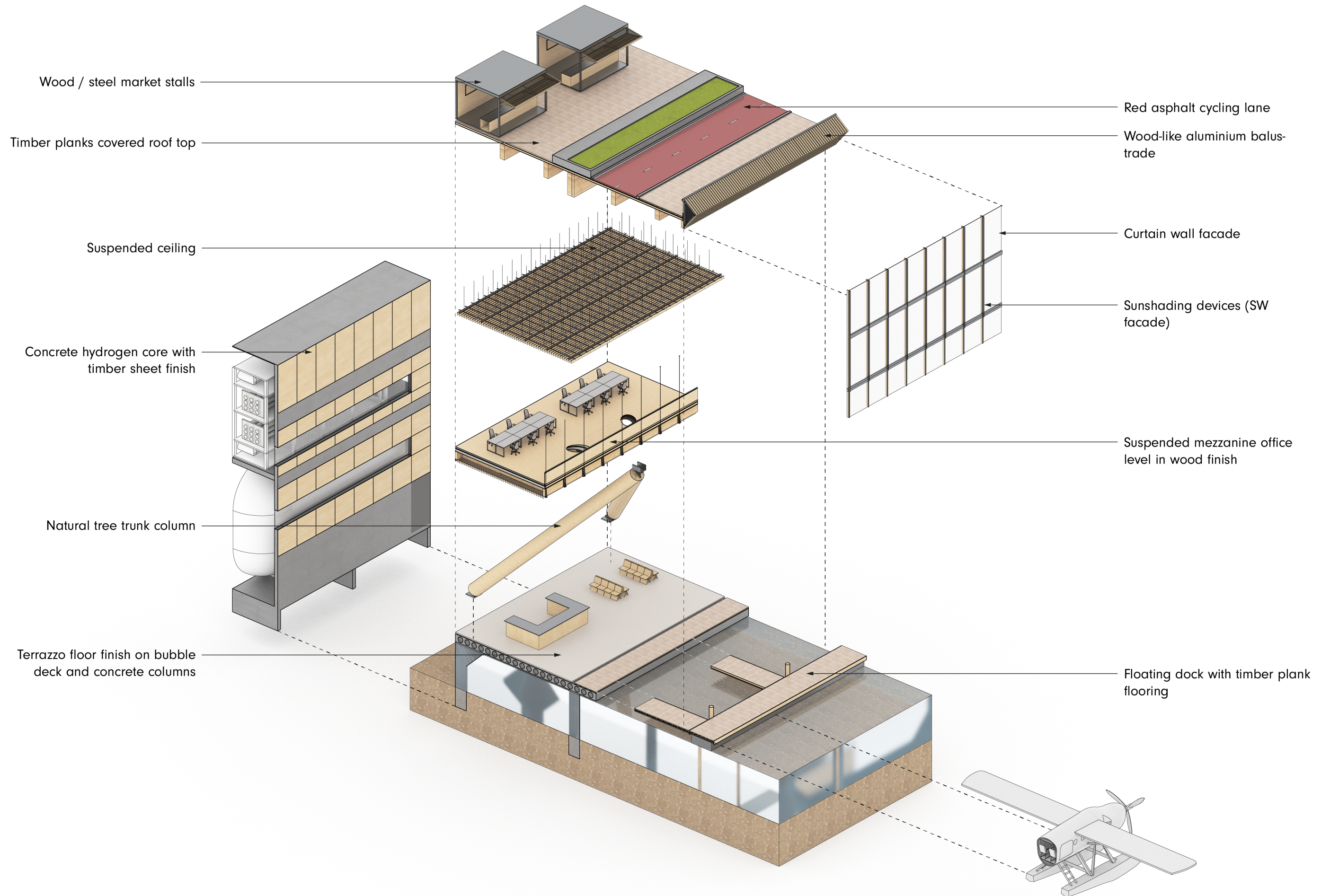
FRONT ELEVATION



KEY DRAWING



INTERIOR FRAGMENT



ENVELOPE FRAGMENT: FACADE IMPRESSION

Roof Balustrade:

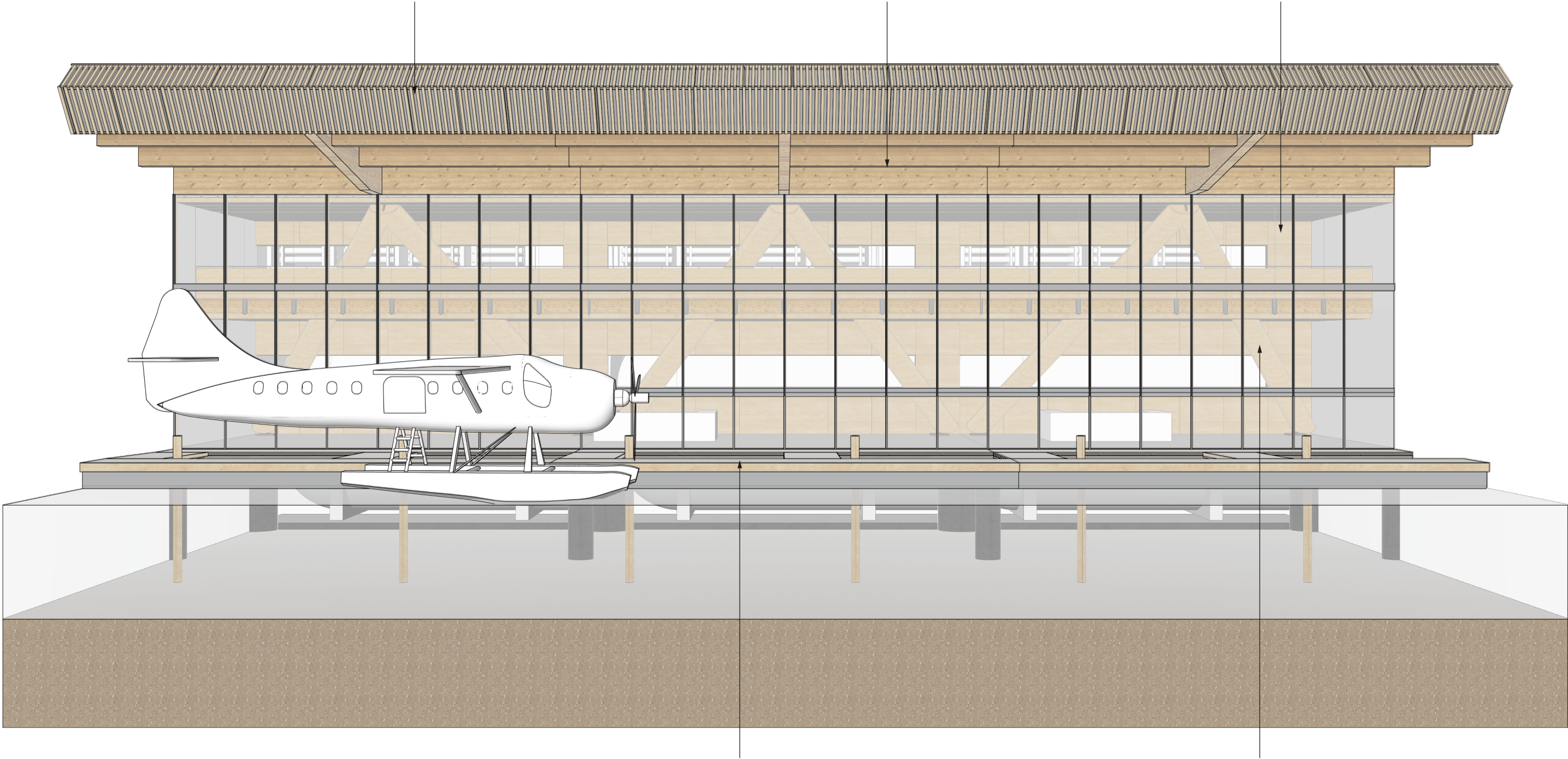
Balustrade with steel main structure and Technowood AluProfile in ash coating, profiled to emphasize the continuous flowing roof line.

Roof Overhang:

Roof overhang to cover passengers on floating dock.

Curtain Wall:

Full height glass panel facade with gradient sun shading devices.



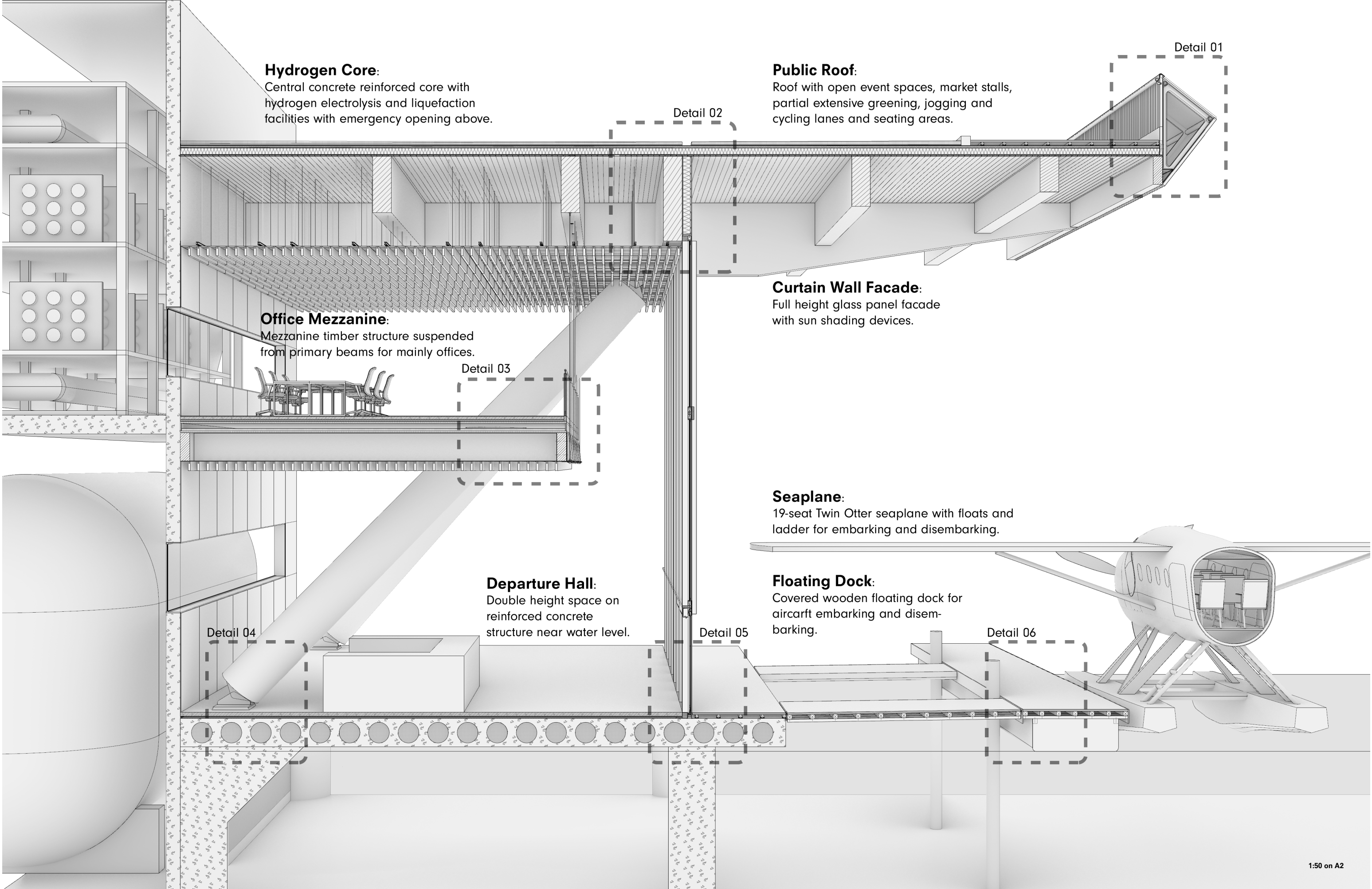
Floating Dock:

Wooden flating dock for aircraft embarking and disembarking, with hinges to adapt to water level differences.

Tree Trunk Column:

Natural tree trunk columns continued along facade as main representation of structural language.

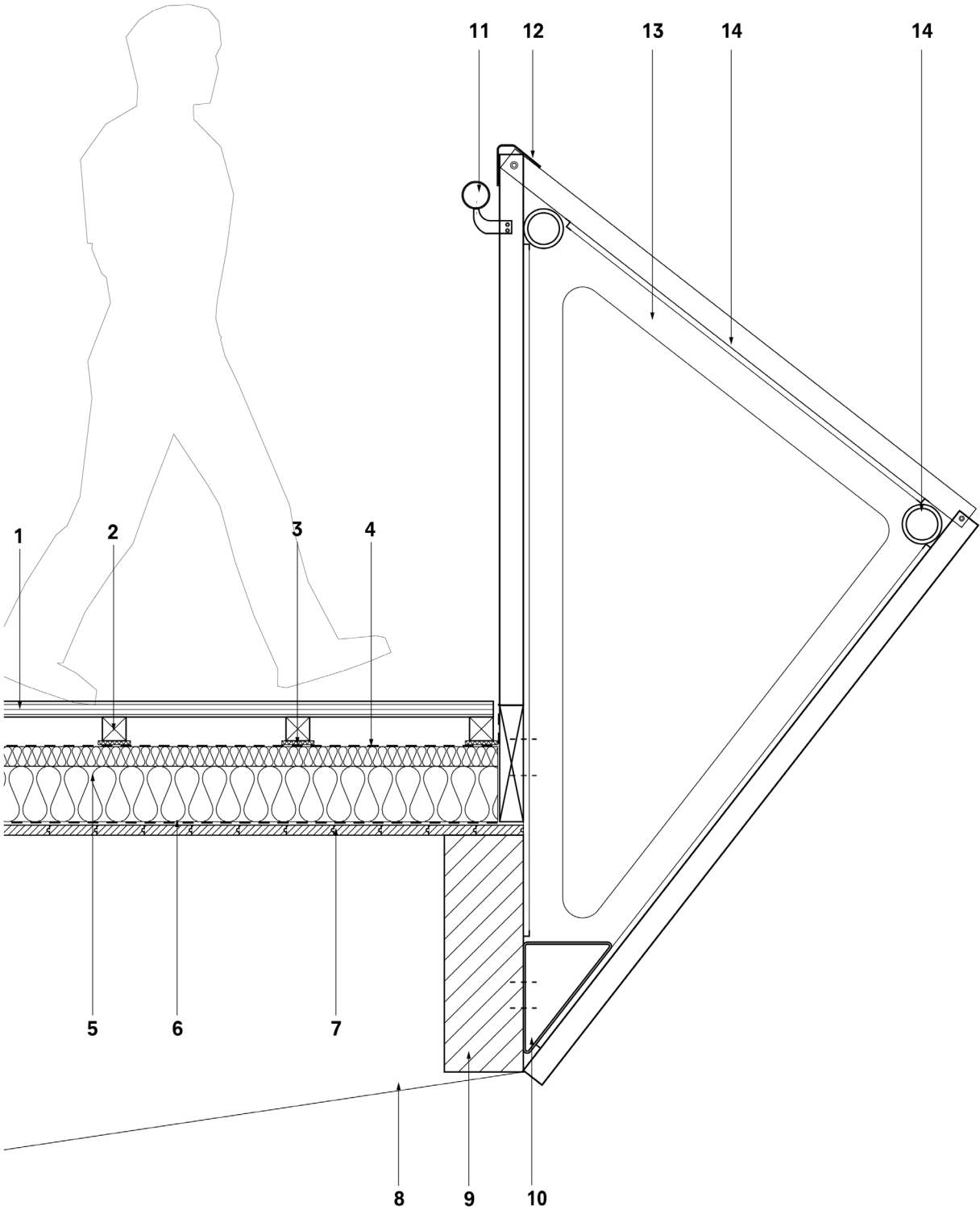
ENVELOPE FRAGMENT: CONSTRUCTION



1:50 on A2

DETAIL 01

- Detail 01 - Vertical Section
Scale 1:10 on A3
- 1 70/40mm treated timber planks
 - 2 60/60mm treated timber substructure
 - 3 20mm rubber pad
 - 4 6mm elastomeric bitumen layer

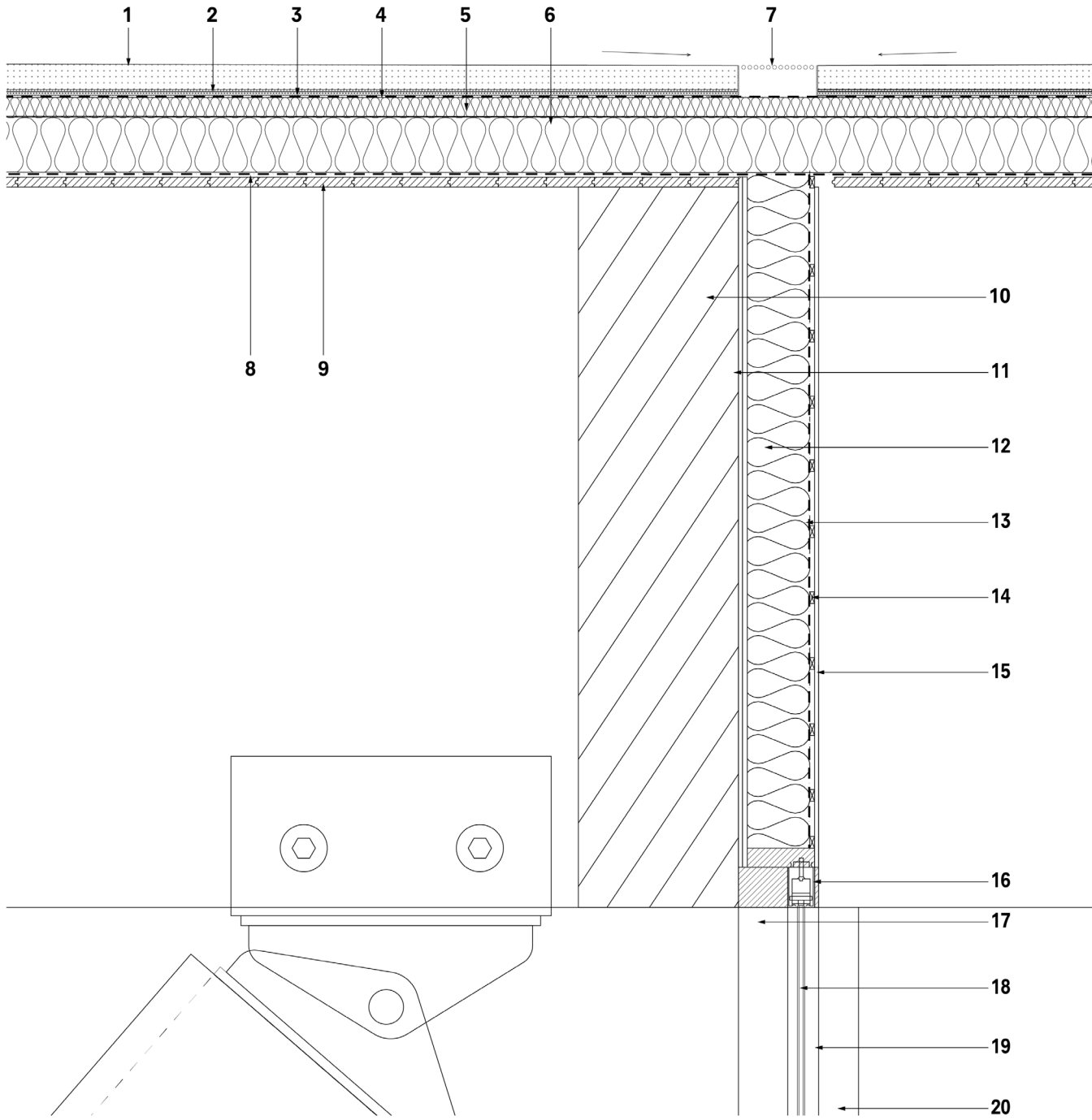


- 5 50+140mm mineral wool thermal insulation
- 6 15mm 2-ply polymer bitumen sealant layer
- 7 25mm spruce siding
- 8 40/60-1800mm spruce beam
- 9 200/600mm spruce joists
- 10 Extruded triangular main steel structure
- 11 Smooth extruded aluminium handrail
- 12 Extruded 3mm aluminium capping
- 13 Extruded main steel structure
- 14 Steel diaphragms
- 15 100/100 Technowood AluProfile in ash coating

1:10 on A3

DETAIL 02

- Detail 02 - Vertical Section
Scale 1:10 on A3
- 1 80mm extensive roof greening + substrate
 - 2 1.1mm filter fleece
 - 3 40mm drainage layer
 - 4 6mm elastomeric bitumen layer
 - 5 50mm mineral wool thermal insulation
 - 6 140mm mineral wool thermal insulation
 - 7 10mm drainage
 - 8 15mm 2-ply polymer bitumen sealant layer
 - 9 25mm spruce siding
 - 10 400/800mm spruce beam
 - 11 Interior wood finish
 - 12 140mm mineral wool thermal insulation



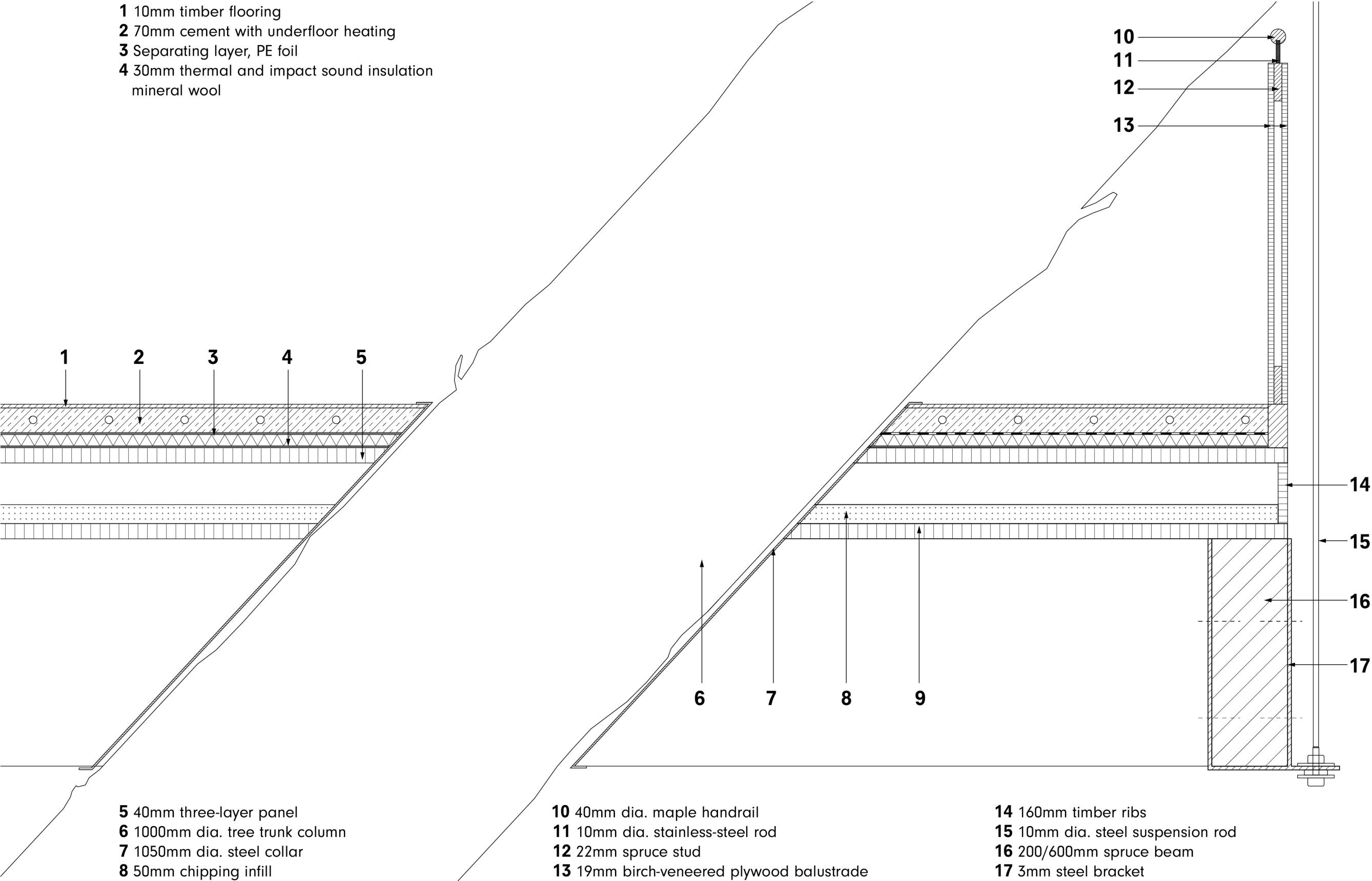
- 13 15mm 2-ply polymer bitumen sealant layer
- 14 25/75mm wood furring strips
- 15 Exterior wood finish
- 16 Steel frame with silicone sealant
- 17 60/150mm cross laminated timber
- 18 Insulated glazing: toughened safety glass 6mm + internal gap 16mm + toughened safety glass 4mm
- 19 3mm profiled aluminium capping
- 20 Sun shading: 30/100 Technowood AluProfile in mahogany coating

1:10 on A3

DETAIL 03

Detail 03 - Vertical Section
Scale 1:10 on A3

- 1 10mm timber flooring
- 2 70mm cement with underfloor heating
- 3 Separating layer, PE foil
- 4 30mm thermal and impact sound insulation mineral wool



- 5 40mm three-layer panel
- 6 1000mm dia. tree trunk column
- 7 1050mm dia. steel collar
- 8 50mm chipping infill
- 9 40mm three-layer panel

- 10 40mm dia. maple handrail
- 11 10mm dia. stainless-steel rod
- 12 22mm spruce stud
- 13 19mm birch-veneered plywood balustrade

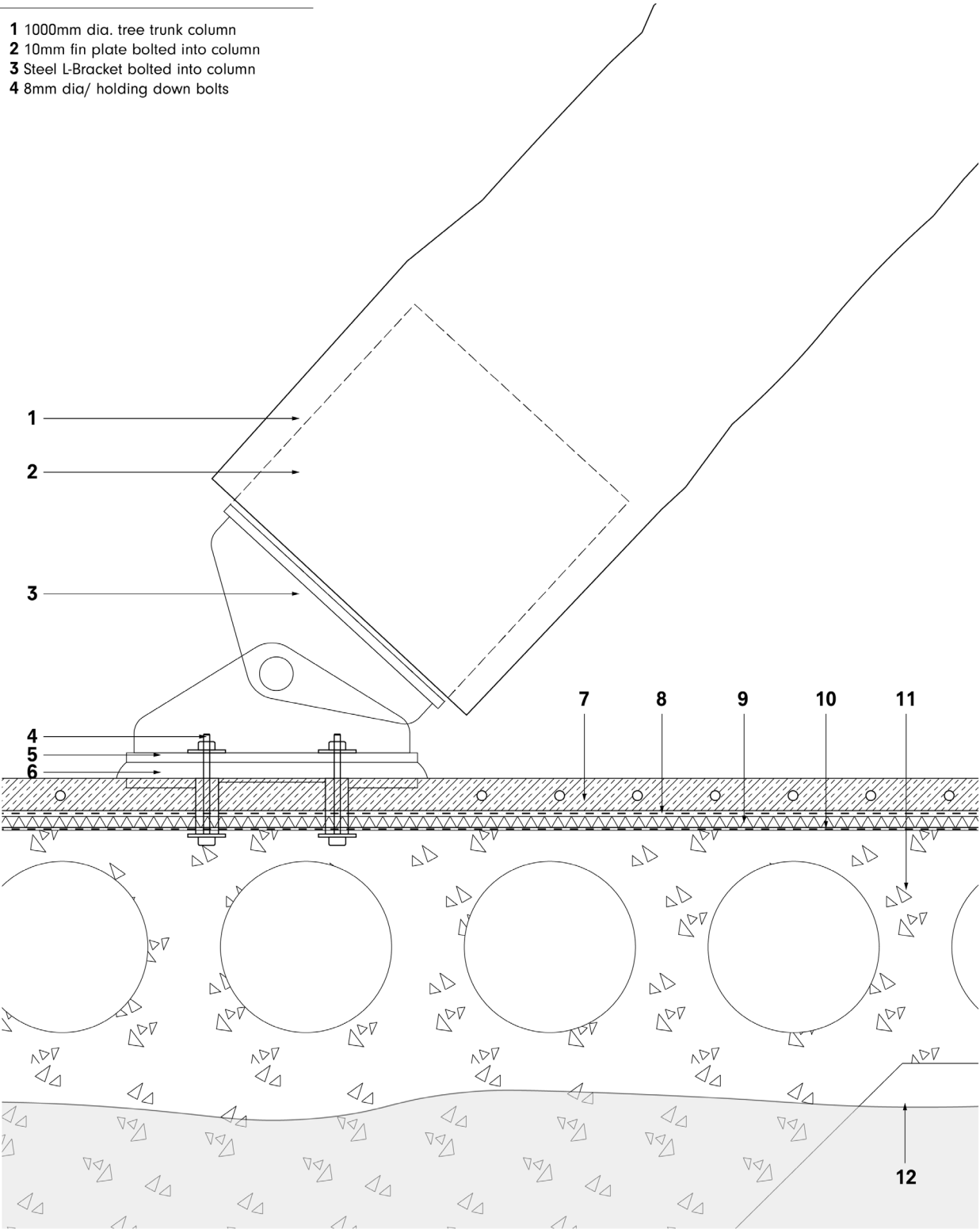
- 14 160mm timber ribs
- 15 10mm dia. steel suspension rod
- 16 200/600mm spruce beam
- 17 3mm steel bracket

1 : 10
0.1 m 0.2m 0.5m

DETAIL 04

Detail 04 - Vertical Section
Scale 1:10 on A3

- 1 1000mm dia. tree trunk column
- 2 10mm fin plate bolted into column
- 3 Steel L-Bracket bolted into column
- 4 8mm dia/ holding down bolts



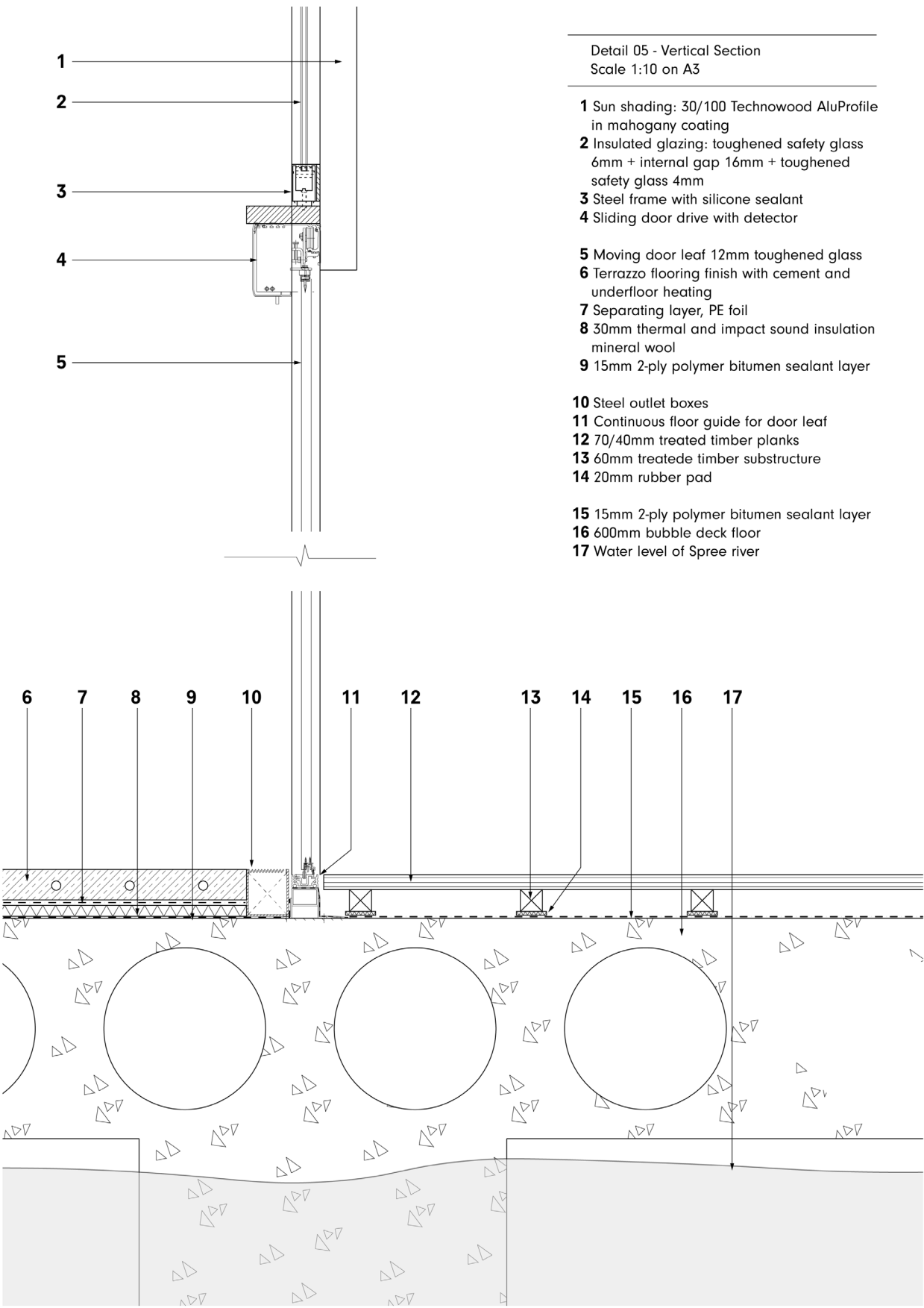
- 5 15mm base plate
- 6 50mm bedding space
- 7 Terrazzo flooring finish with cement and underfloor heating
- 8 Separating layer, PE foil
- 9 30mm thermal and impact sound insulation mineral wool
- 10 15mm 2-ply polymer bitumen sealant layer
- 11 600mm bubble deck floor
- 12 Water level of Spree river

1:10 on A3

DETAIL 05

Detail 05 - Vertical Section
Scale 1:10 on A3

- 1 Sun shading: 30/100 Technowood AluProfile in mahogany coating
- 2 Insulated glazing: toughened safety glass 6mm + internal gap 16mm + toughened safety glass 4mm
- 3 Steel frame with silicone sealant
- 4 Sliding door drive with detector
- 5 Moving door leaf 12mm toughened glass
- 6 Terrazzo flooring finish with cement and underfloor heating
- 7 Separating layer, PE foil
- 8 30mm thermal and impact sound insulation mineral wool
- 9 15mm 2-ply polymer bitumen sealant layer
- 10 Steel outlet boxes
- 11 Continuous floor guide for door leaf
- 12 70/40mm treated timber planks
- 13 60mm treated timber substructure
- 14 20mm rubber pad
- 15 15mm 2-ply polymer bitumen sealant layer
- 16 600mm bubble deck floor
- 17 Water level of Spree river



1:10 on A3

DETAIL 06

Detail 06 - Vertical Section
Scale 1:10 on A3

- 1

300mm dia. galvanised stainless steel
pipes drilled to riverbed
- 2

3mm aluminium hinge
- 3

70/40mm treated timber planks
- 4

60mm treated timber substructure
- 5

Cross members of timber substructure
- 6

High-density polypropylene foam-filled float
- 7

Short take off and landing 19-seat seaplane
Twin Otter Series 400
- 8

Water level of Spree river

