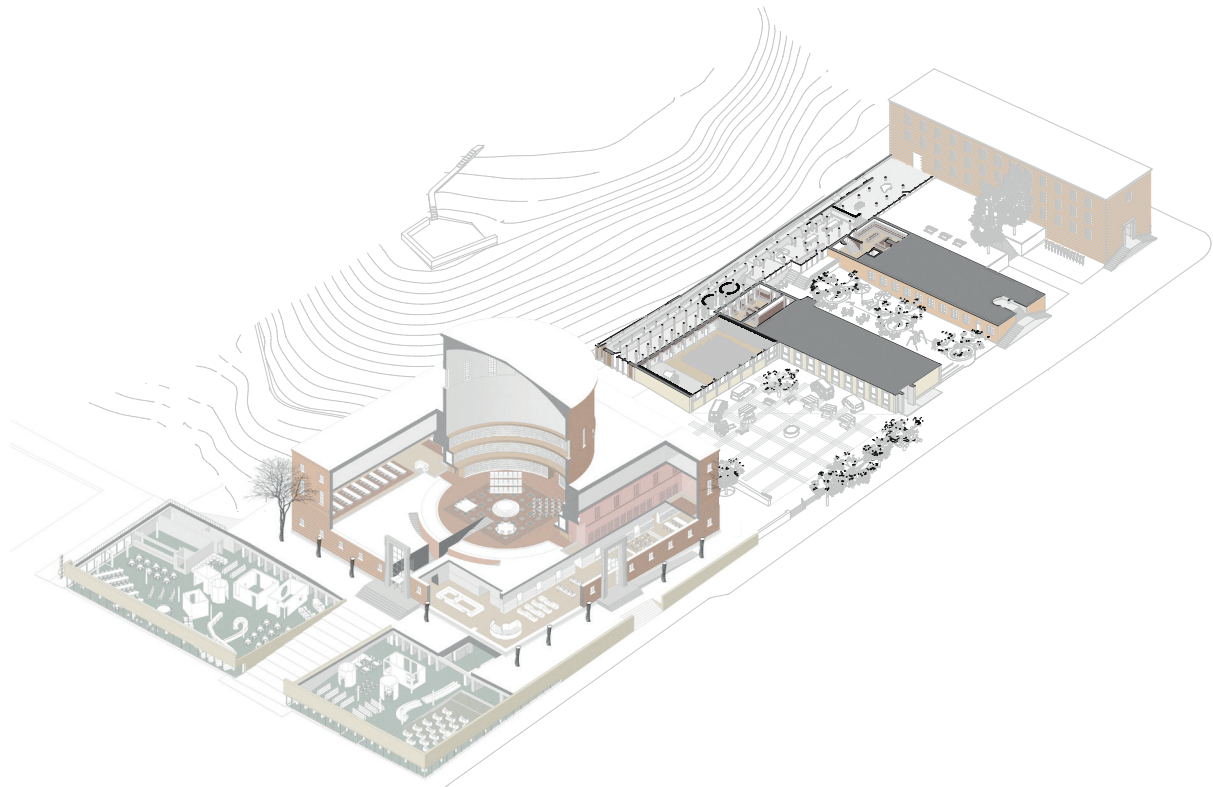


The Extension & Redevelopment of the Public Library Stockholm

Palace / Academic year 2023/24
MSc 3/4 Interiors Buildings Cities

Project Book
Natalia Simonarson

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Inviting the Public

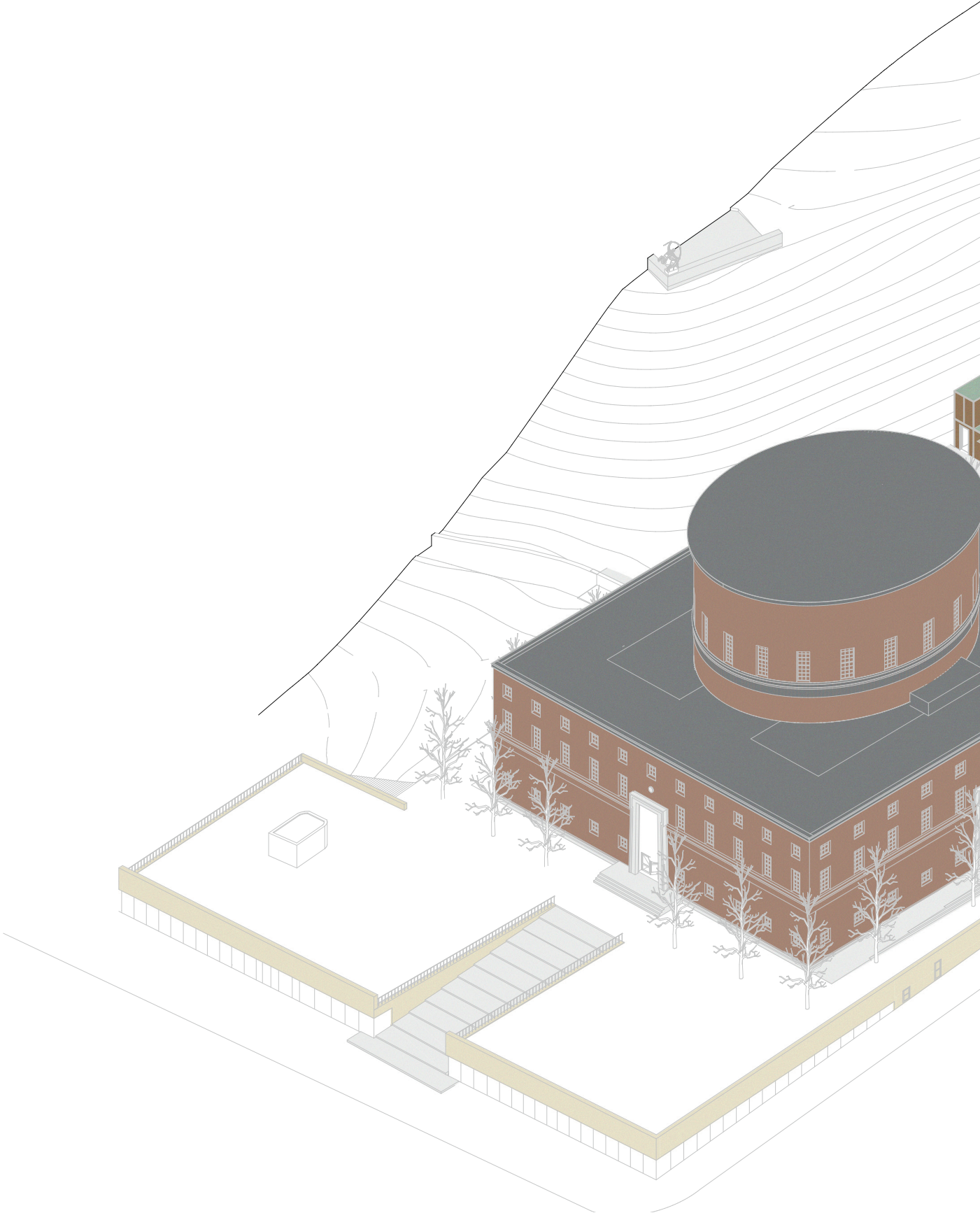
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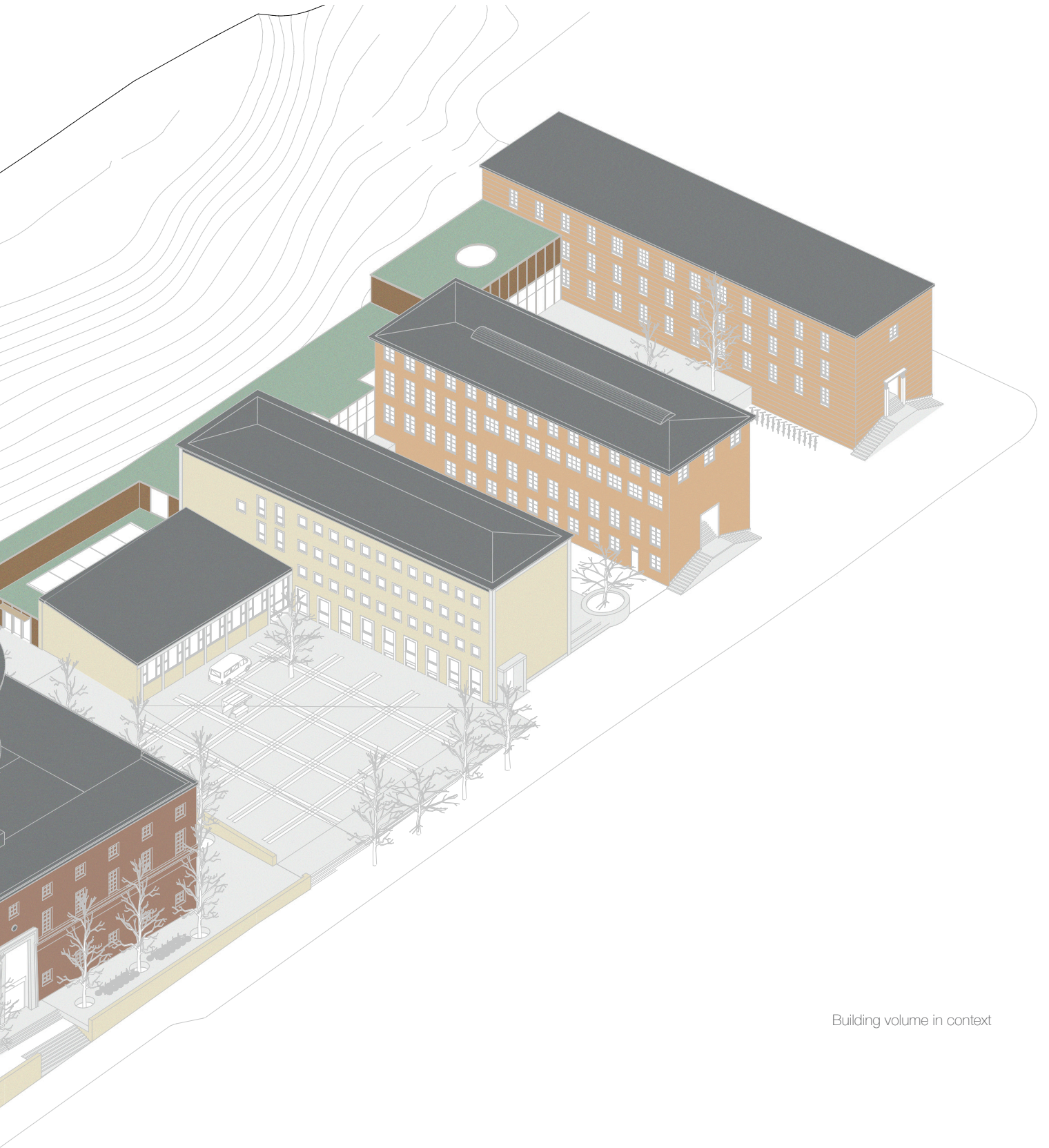
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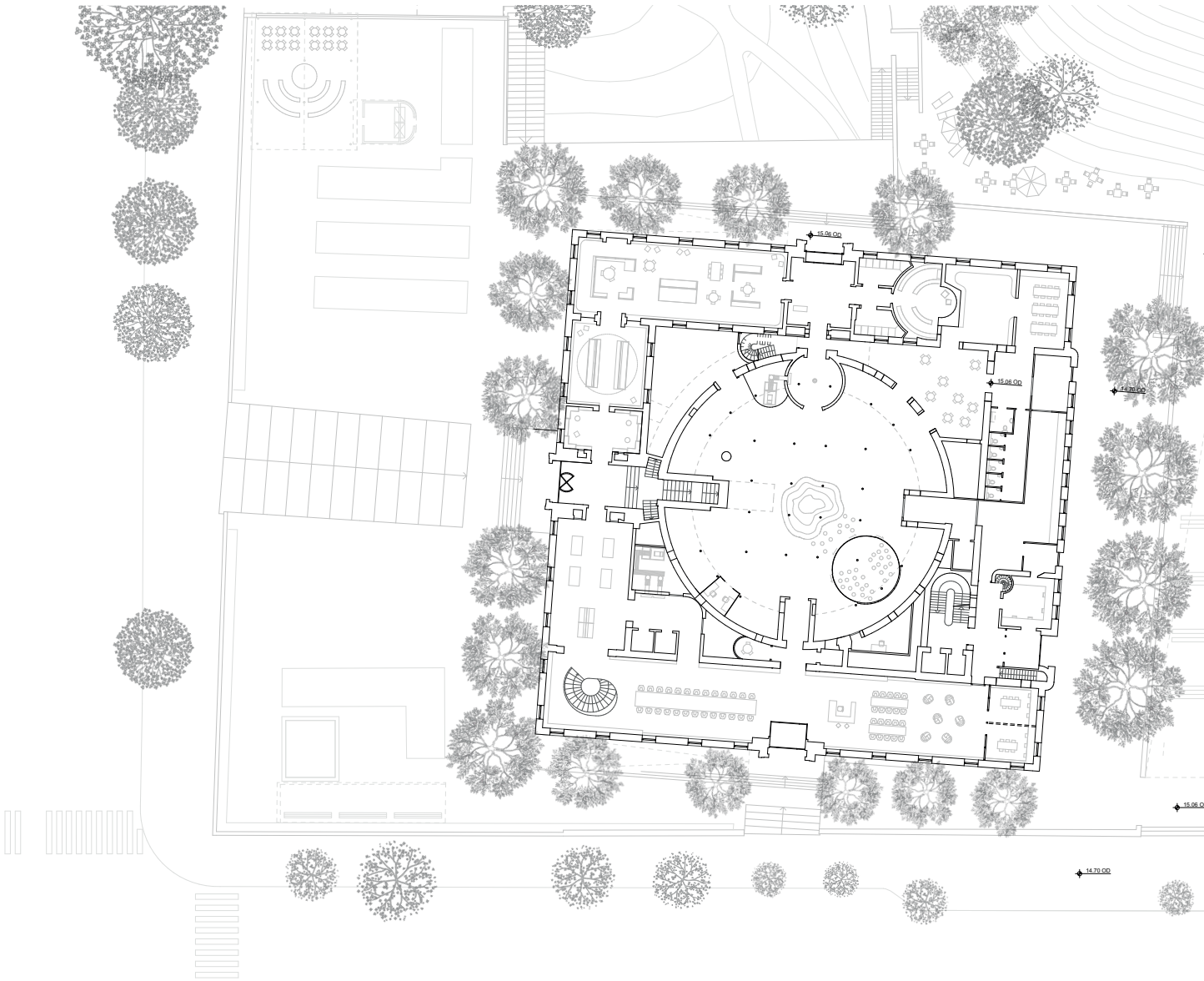
Figure ground plan

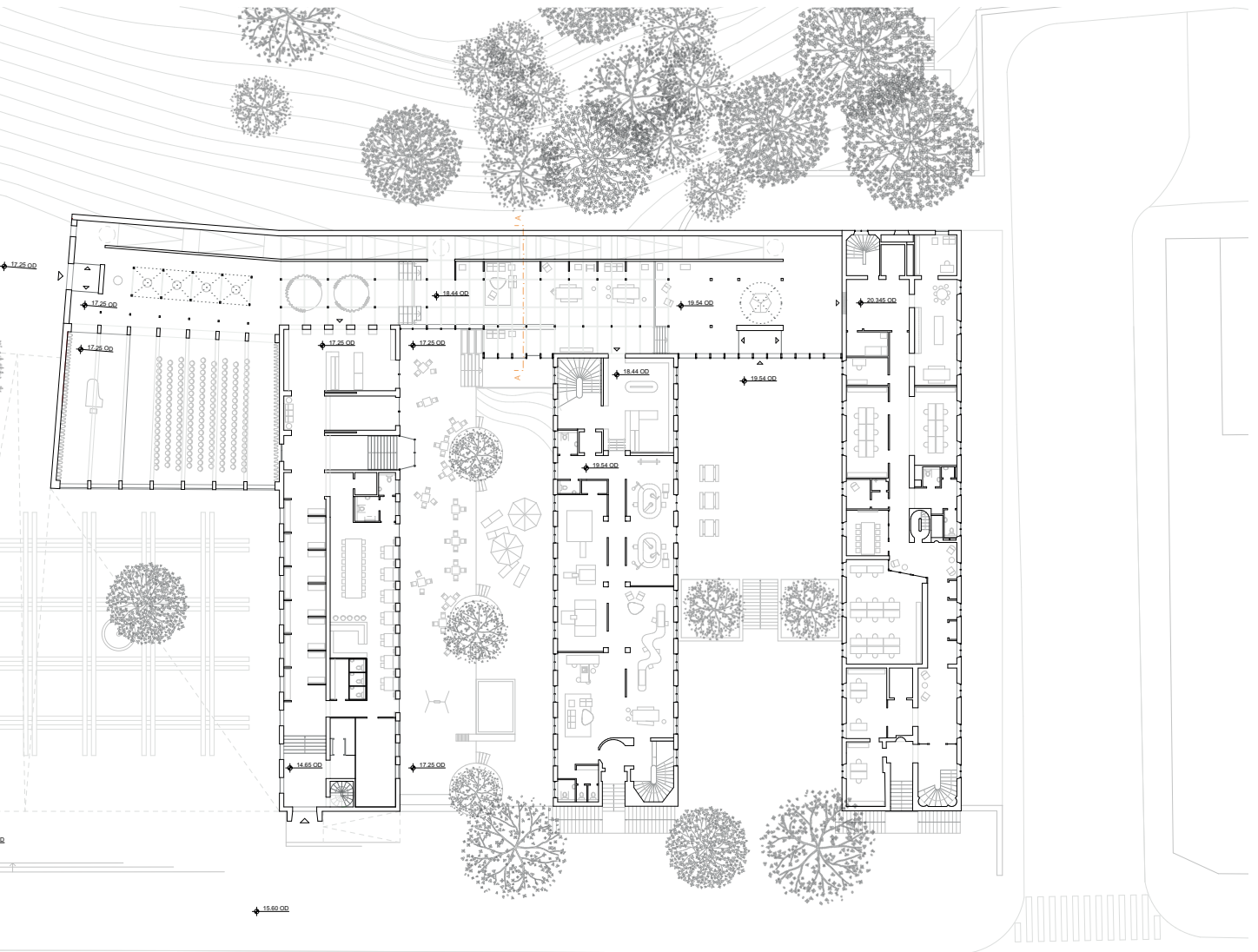
Bas relief model of the redesigned ground (1:100)





Building volume in context

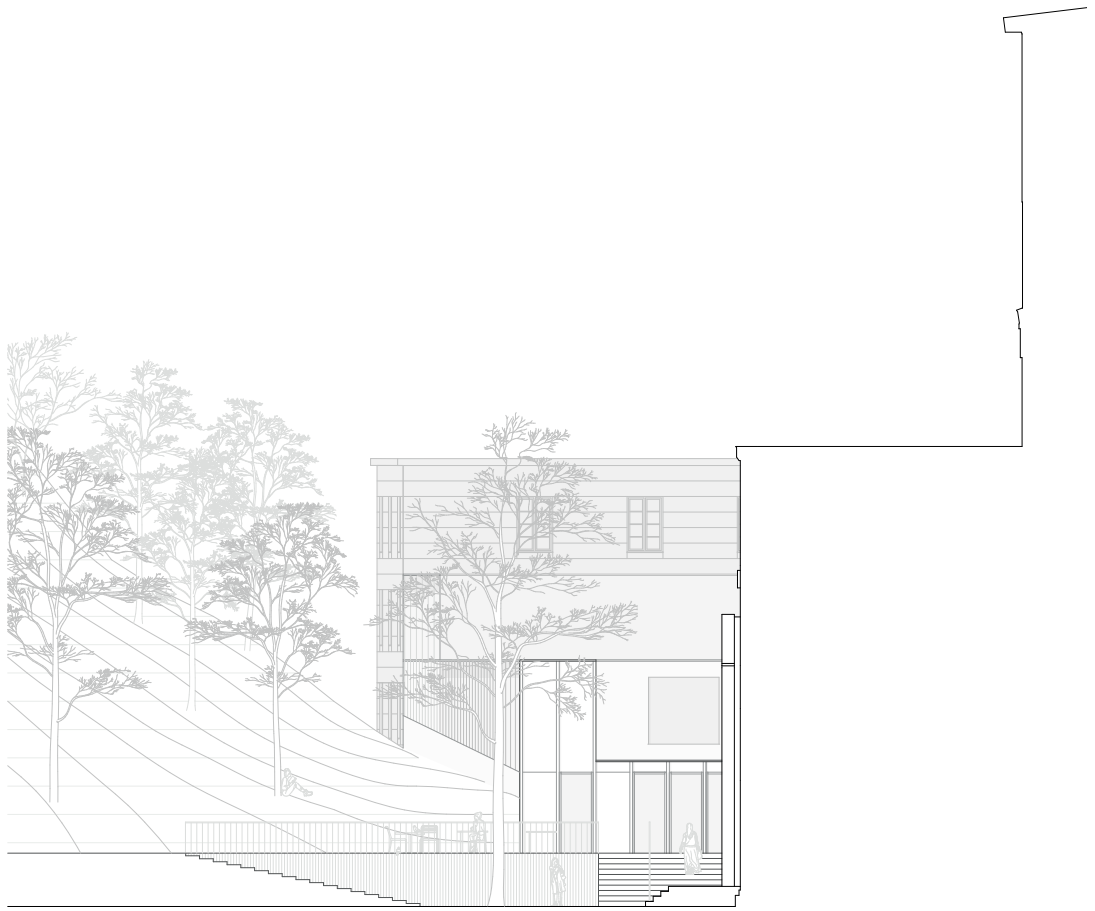




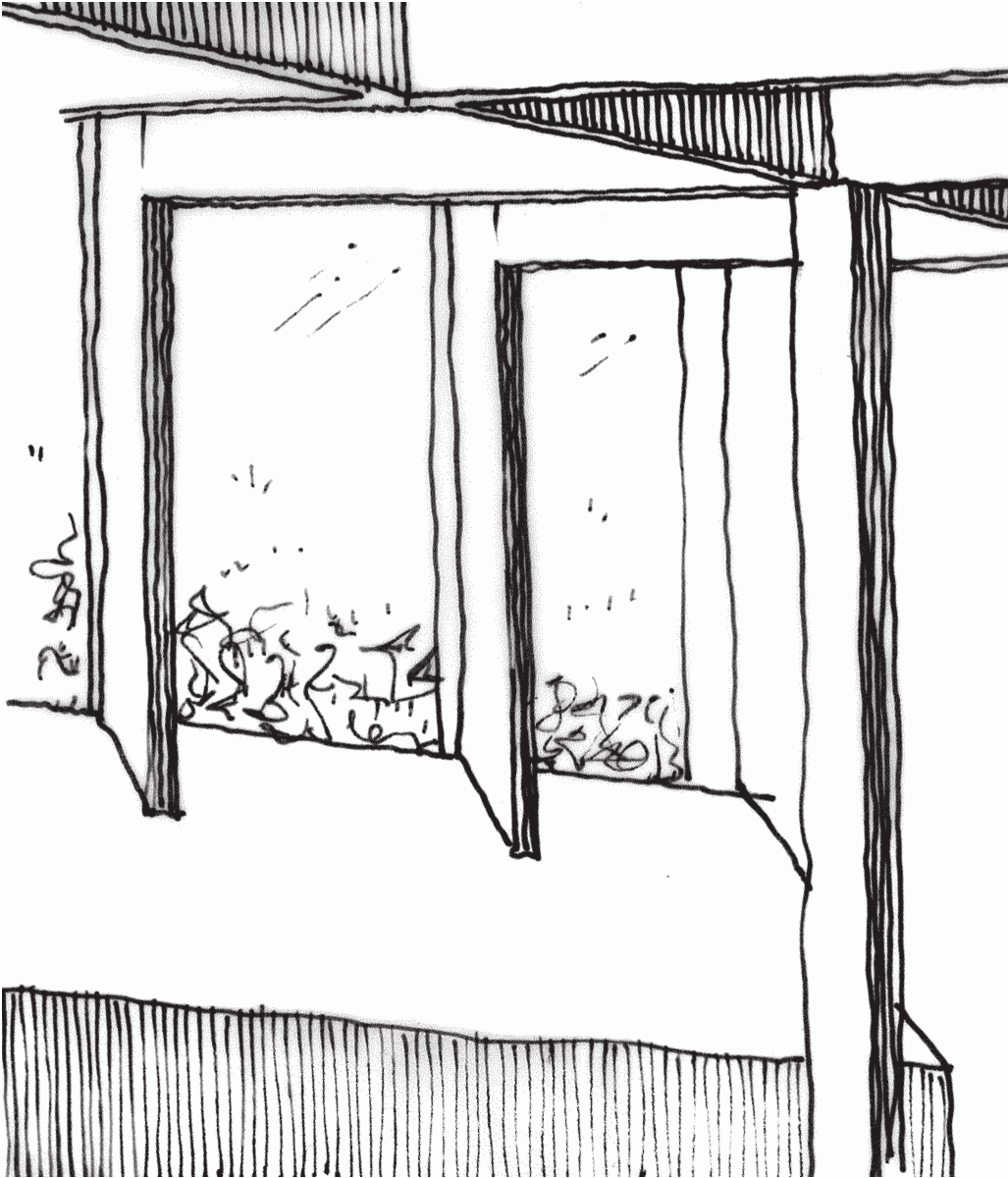
Floor plan (detailed 1:200)



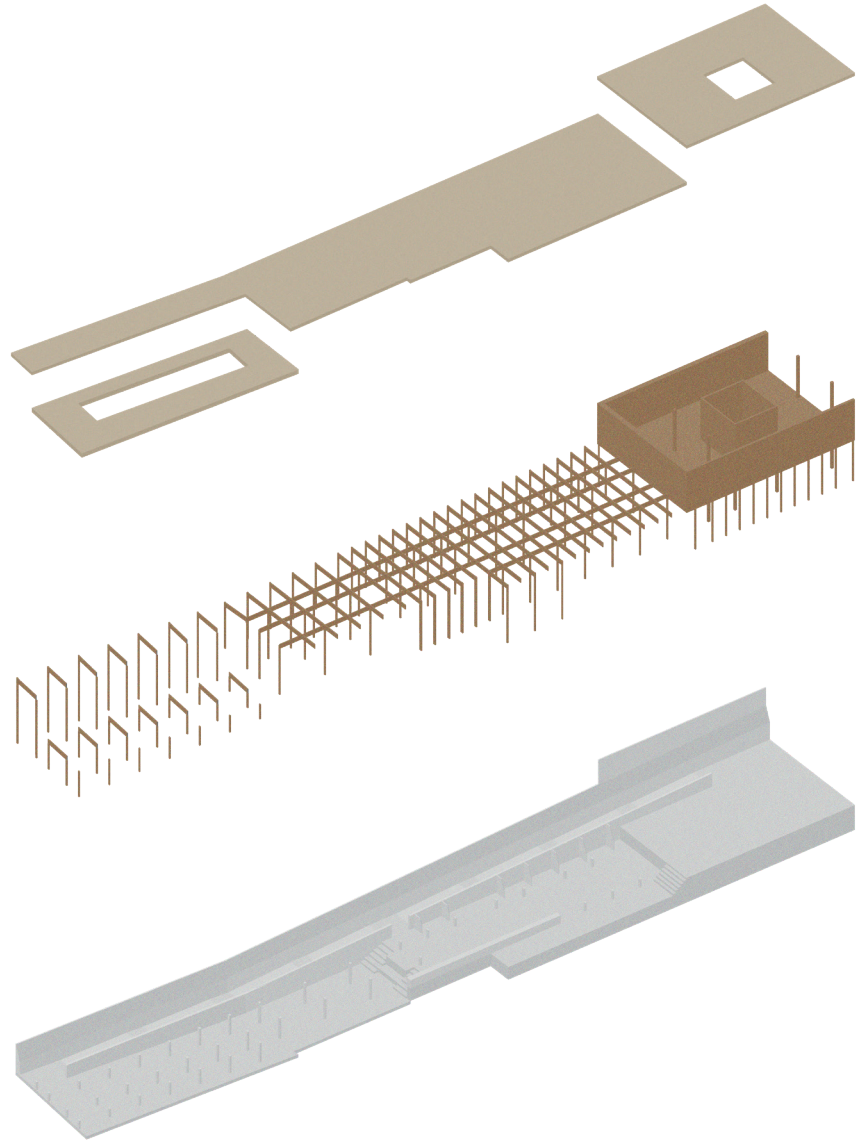
North elevation with entrance to the right (from Odengatan)



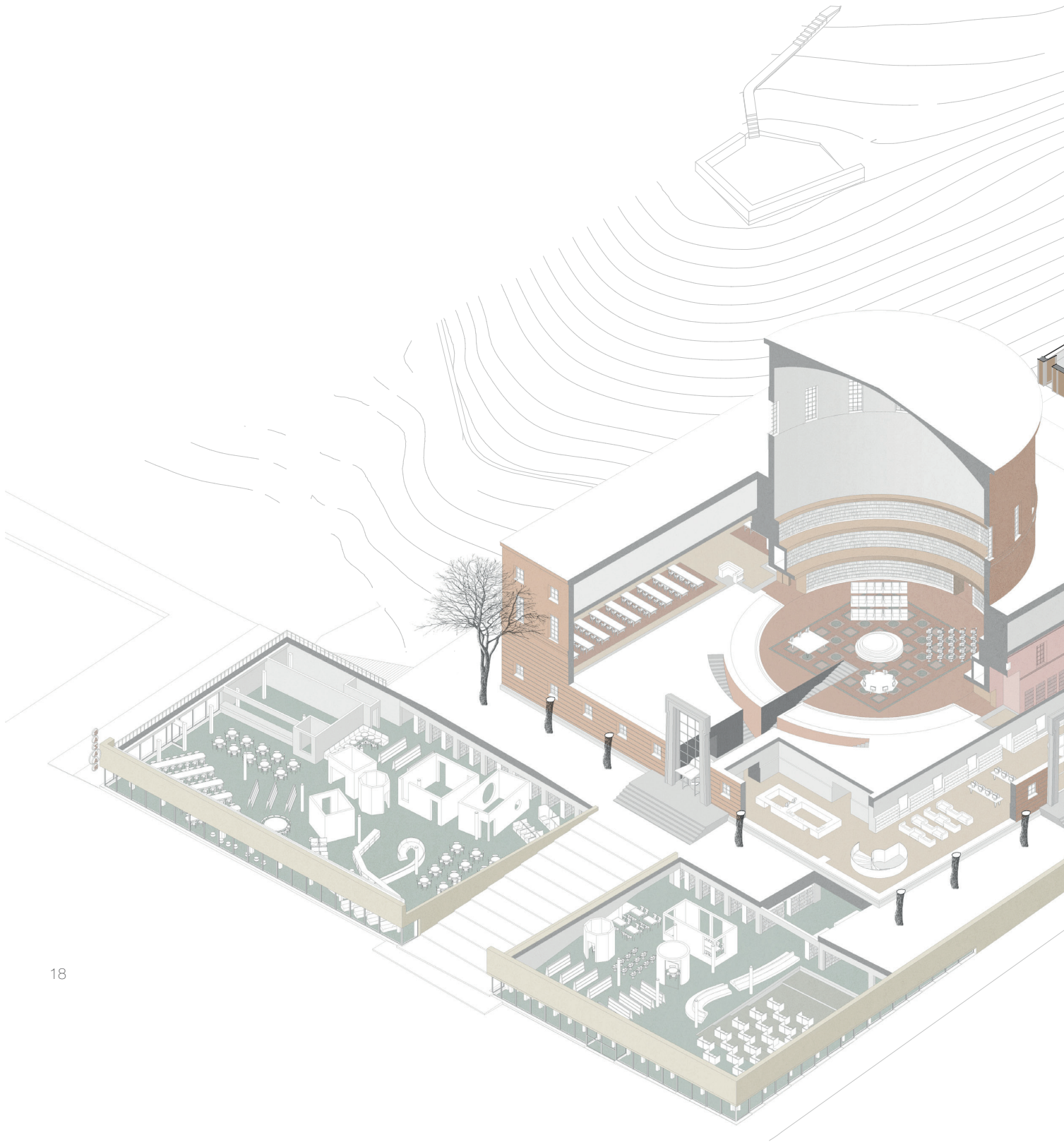
East entrance elevation (from Asplund Children's Library)

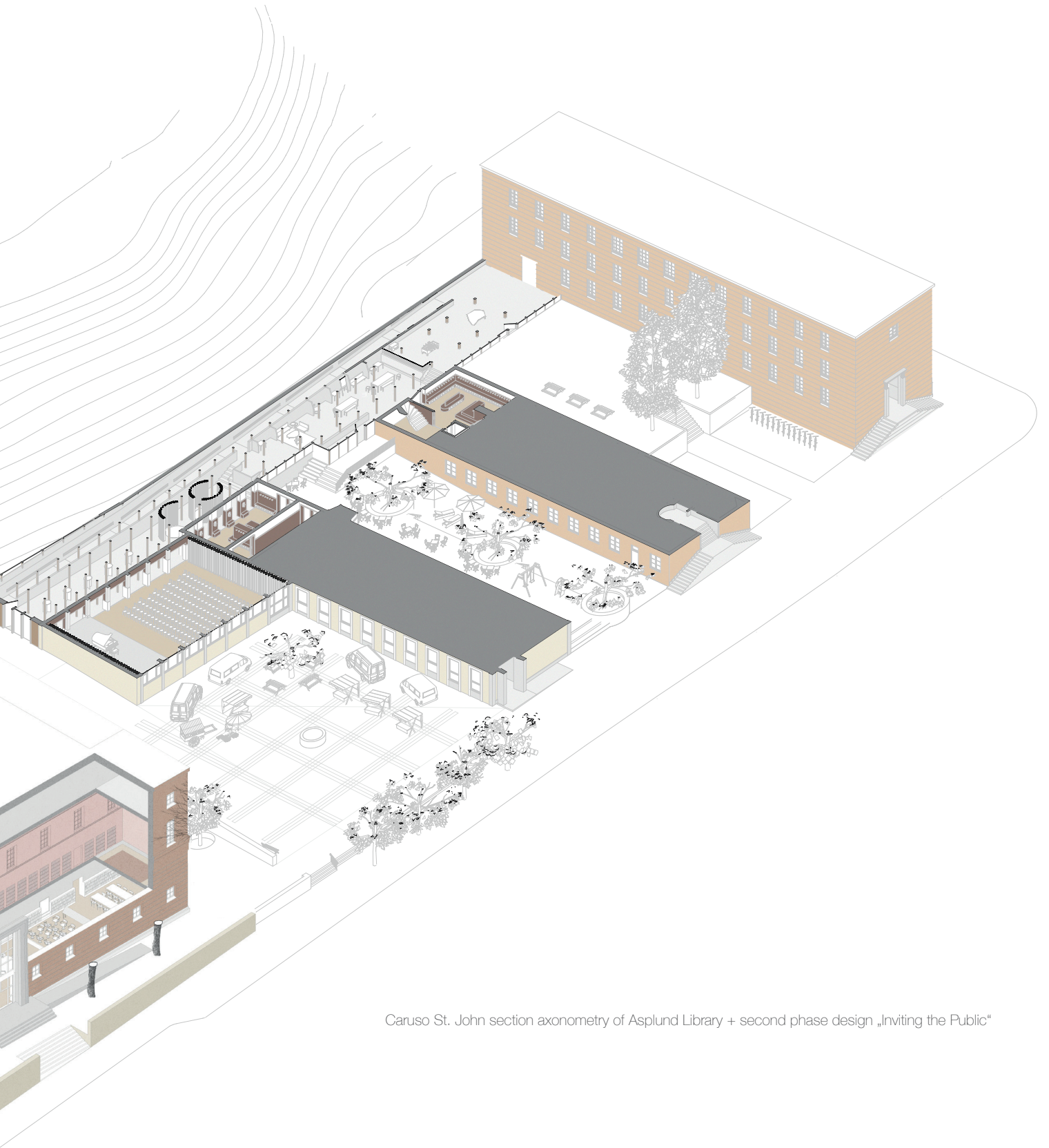


First structure sketch



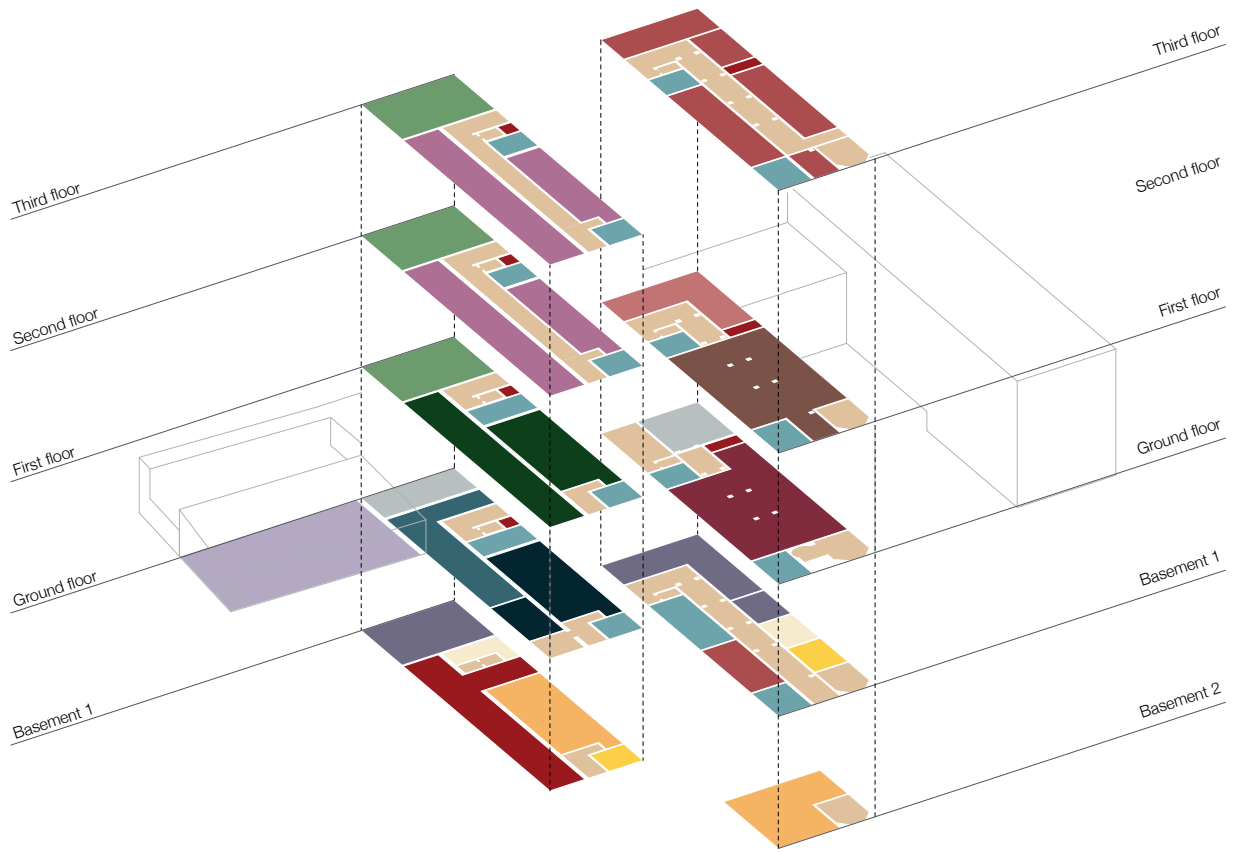
Structure explosion diagram





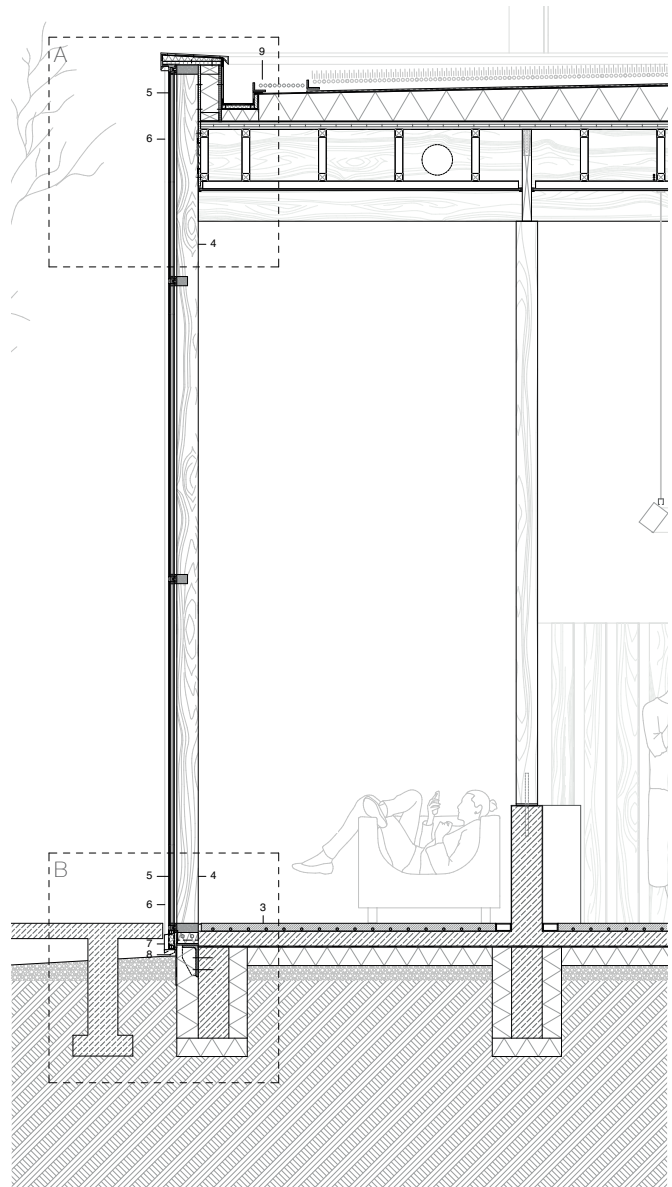
Caruso St. John section axonometry of Asplund Library + second phase design „Inviting the Public“

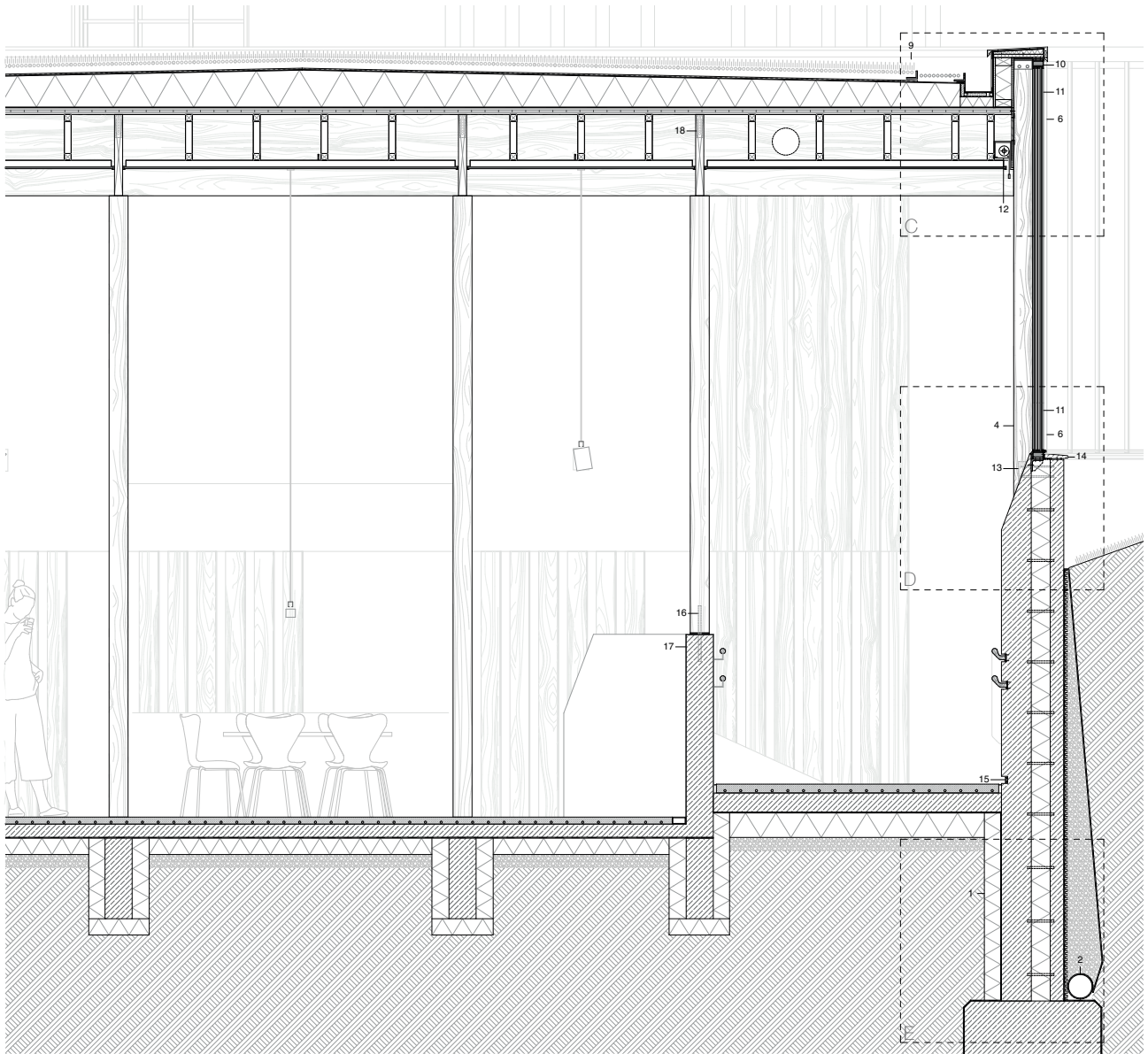
	m ²
Wardrobe	112
Circulation	700
Multi-purpose hall	290
Library Exhibition	115
Restaurant	145
Customer workspace	285
Physical & digital workshop	238
Living lab	220
Auditorium	225
Teaching & group rooms	400
Debating room	85
WC, washrooms	325
Staff rooms (offices, lounge)	280
Storage & stage prop	195
Security office & storage	40
First aid & health room	45
Utility room + maintenance (HVAC, electrical, plumbing, water heaters, ...)	210
Servers, network & IT storage	215
	4125



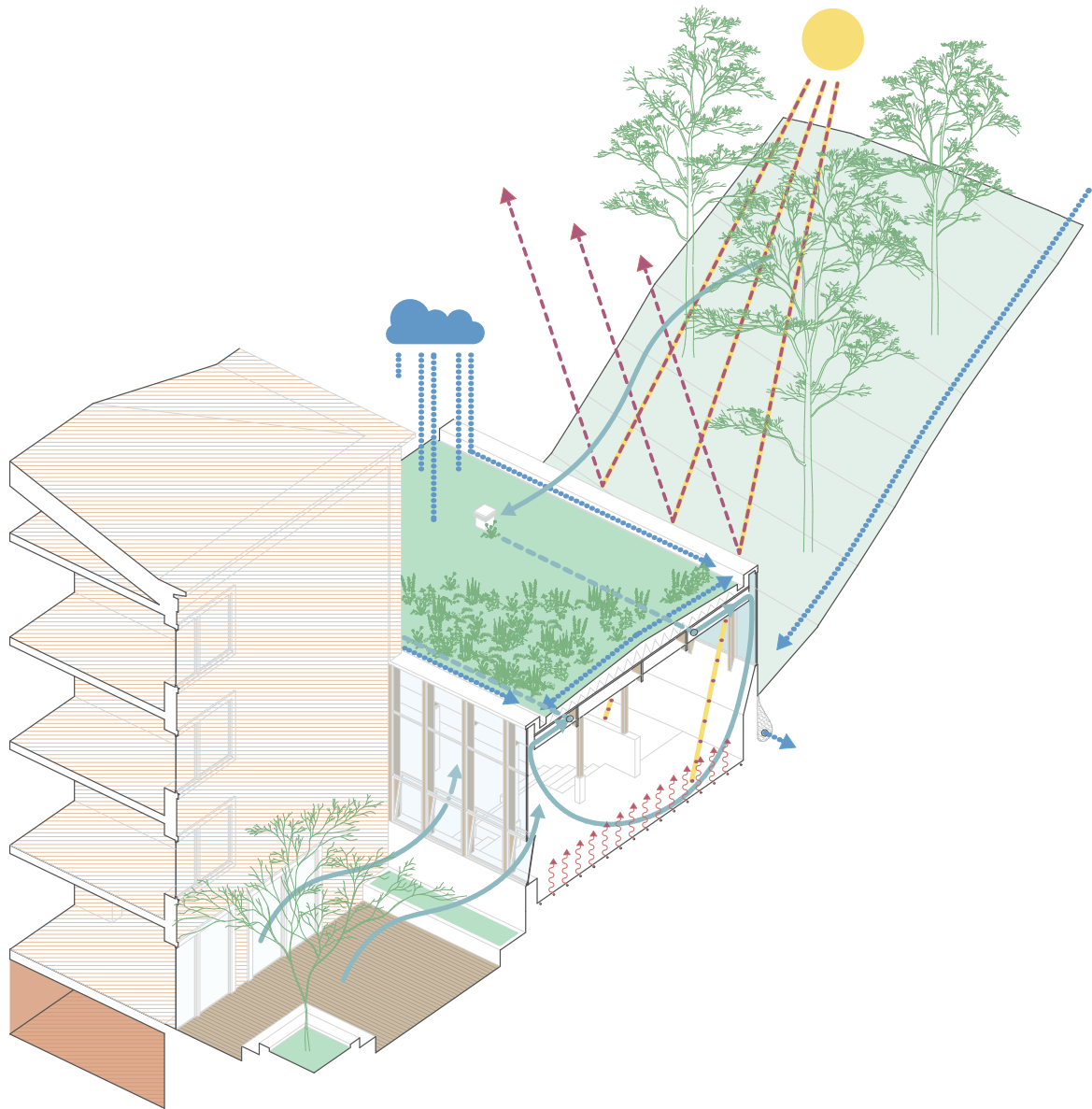
Program diagram Annex 1 & Annex 2

- 1 Retaining wall:
Fleece.
Gravel fill.
Dimpled plastic sheet drainage layer.
Bituminous sealant finish.
100mm Reinforced concrete sandwich element +
150mm XPS thermal insulation + 220mm
reinforced concrete.
- 2 Perforated drainage pipe.
- 3 Floor:
20mm Concrete water-jet treated with an epoxy
resin coating.
50mm Screed with underfloor heating.
100mm Reinforced concrete slab on strip footings.
8mm Bituminous sheeting vapour barrier.
120mm Thermal insulation.
100mm Compacted gravel.
- 4 140 x 100mm Ash column, fire retardant treated.
- 5 Mullion-transom structure.
Double glazing: 12mm laminated safety glass +
6mm argon-filled cavity + 8mm toughened glass
with low-E coating.
- 6 Softwood mullion profiles.
- 7 Bend sheet metal.
- 8 Water drainage via mullion gasket below.
- 9 Roof:
80mm Extensive planting.
10mm Filter fleece.
1mm PVC sealant layer.
Min. 180mm PIR thermal insulation on a 2% slope.
8mm Bituminous sheeting vapour barrier.
50mm CLT.
600mm x 60mm Ash beam, fire retardant treated,
cross-beam construction.
50/50mm Battens, 400mm suspended ceiling
framework.
- 10 Frameless window, steel profile, gold anodised.
- 11 Triple glazing: 6 + 6mm laminated safety glass with
solar control coating + 14mm argon-filled cavity +
6mm float glass + 14mm argon-filled cavity + 6mm
float glass with low-E coating.
- 12 Fabric blind.
- 13 Column anchor.
- 14 5° Sloped window sill, concrete prefab.
- 15 LED indirect lighting aluminium track.
- 16 Column base.
- 17 Skim coat.
- 18 Invisible steel
connector for main
and secondary
beams.





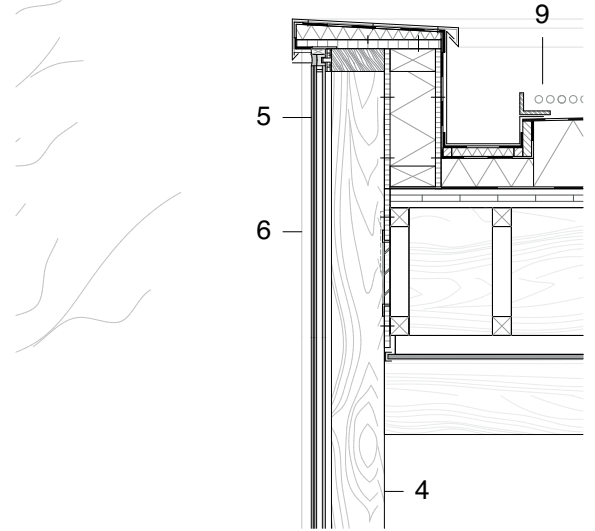
Construction cross-section A-A (detailed 1:20)



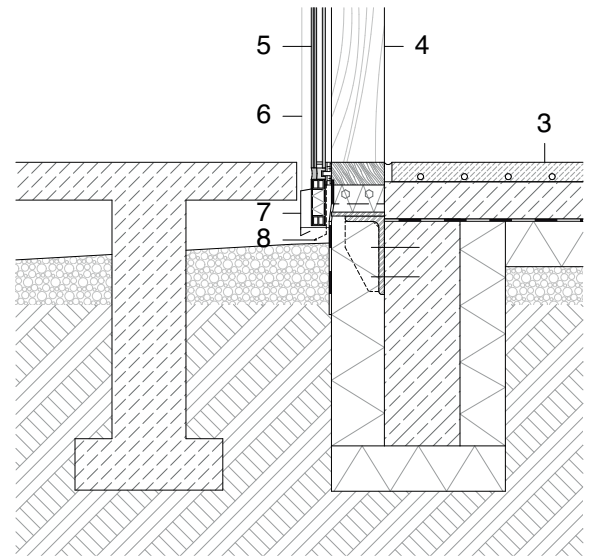
Climate diagram



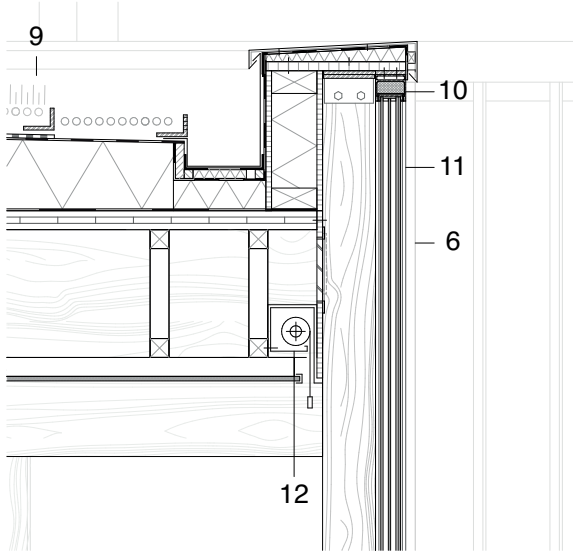
South elevation (detailed 1:20)



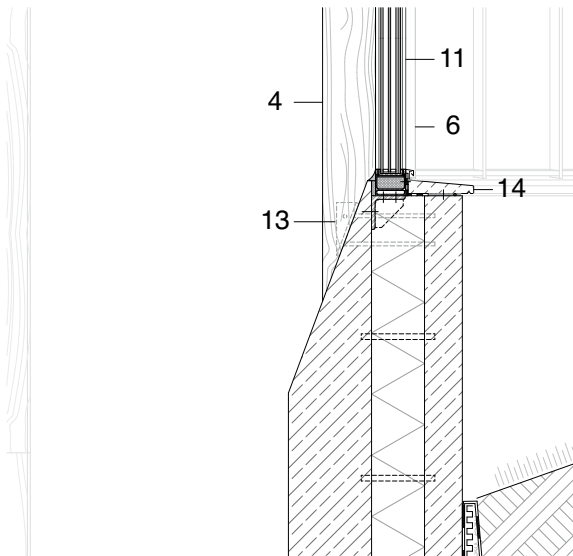
Detail A (detailed 1:5)



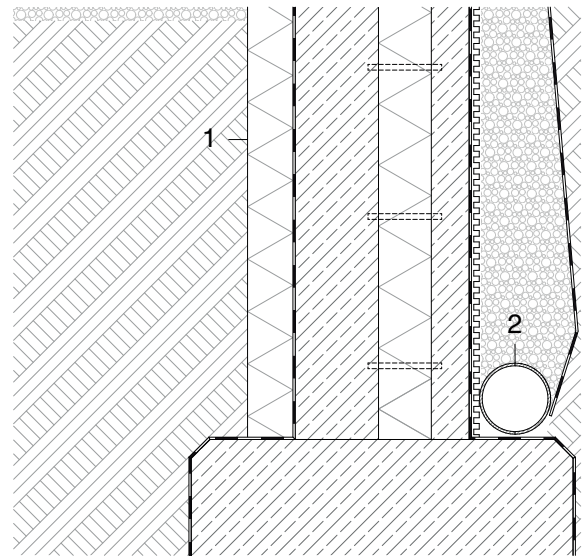
Detail B (detailed 1:5)



Detail C (detailed 1:5)



Detail D (detailed 1:5)



Detail E (detailed 1:5)

A walk through the building













































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Architecture Track

Academic year 2023/2024

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