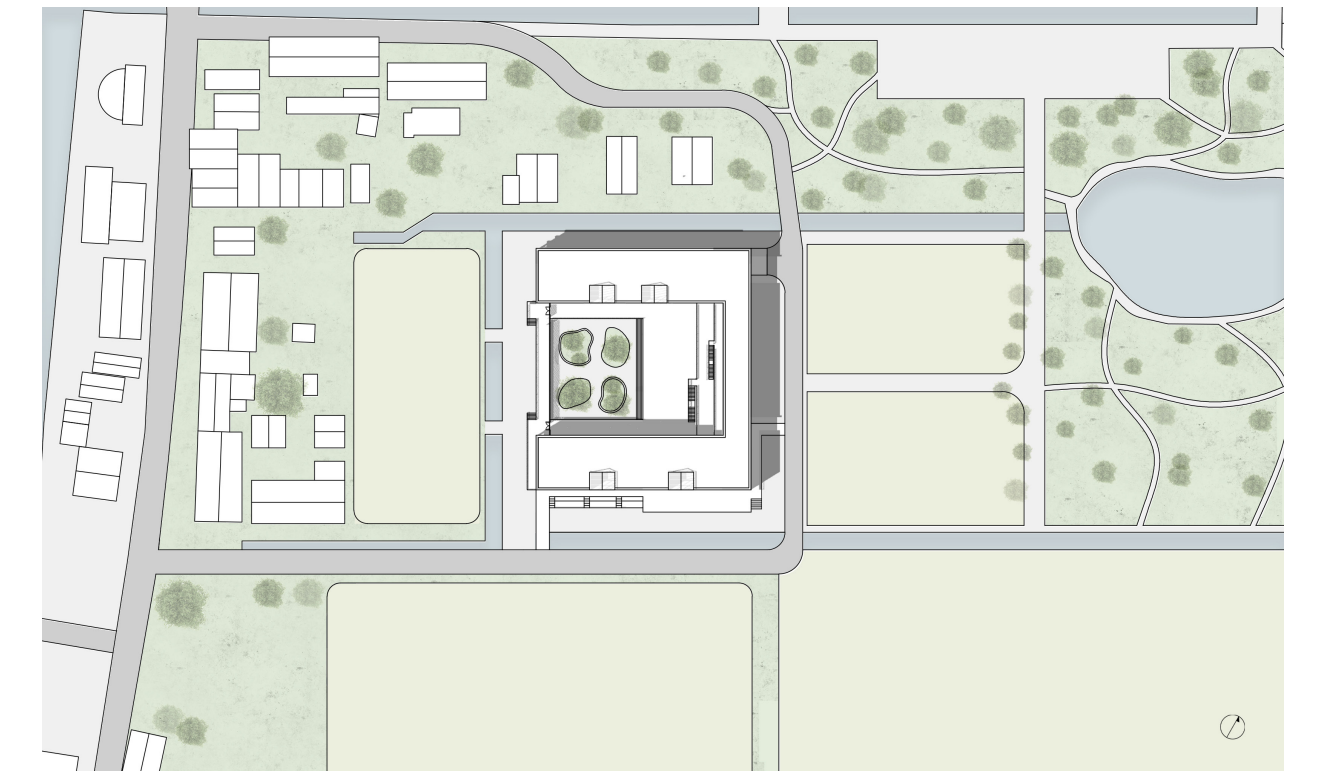
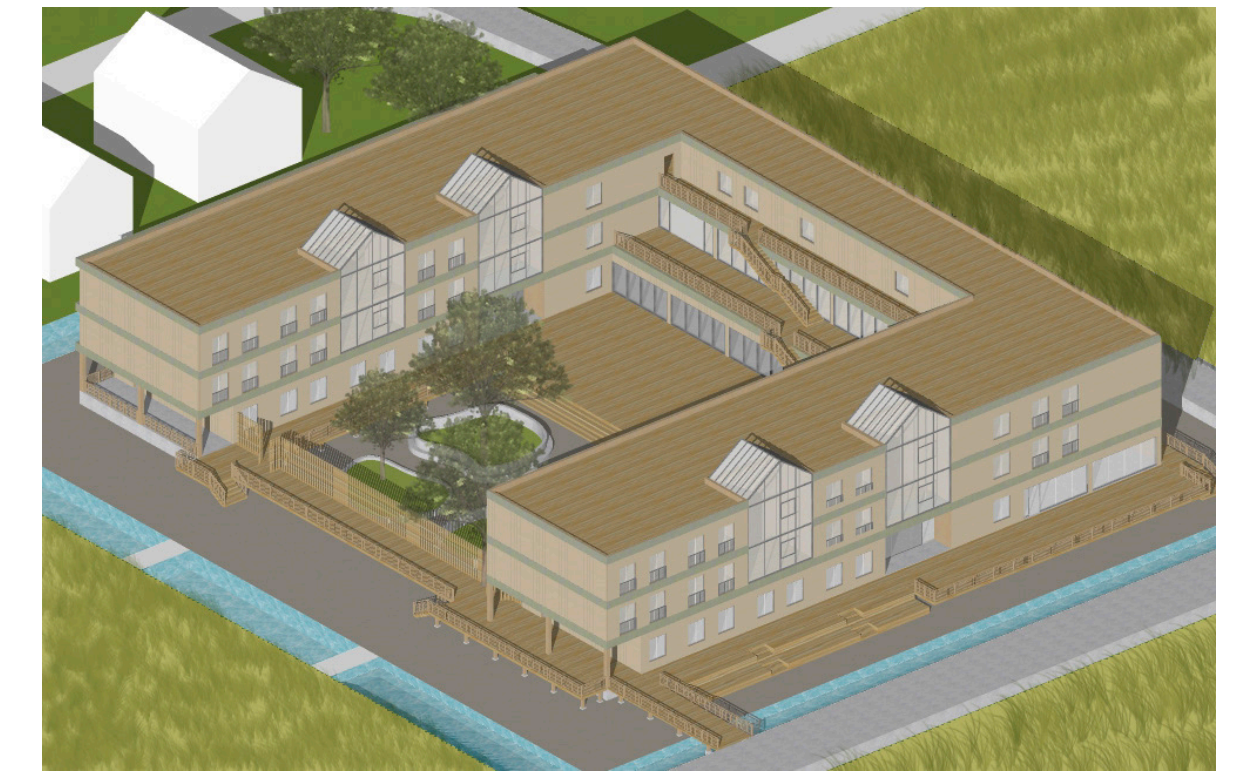
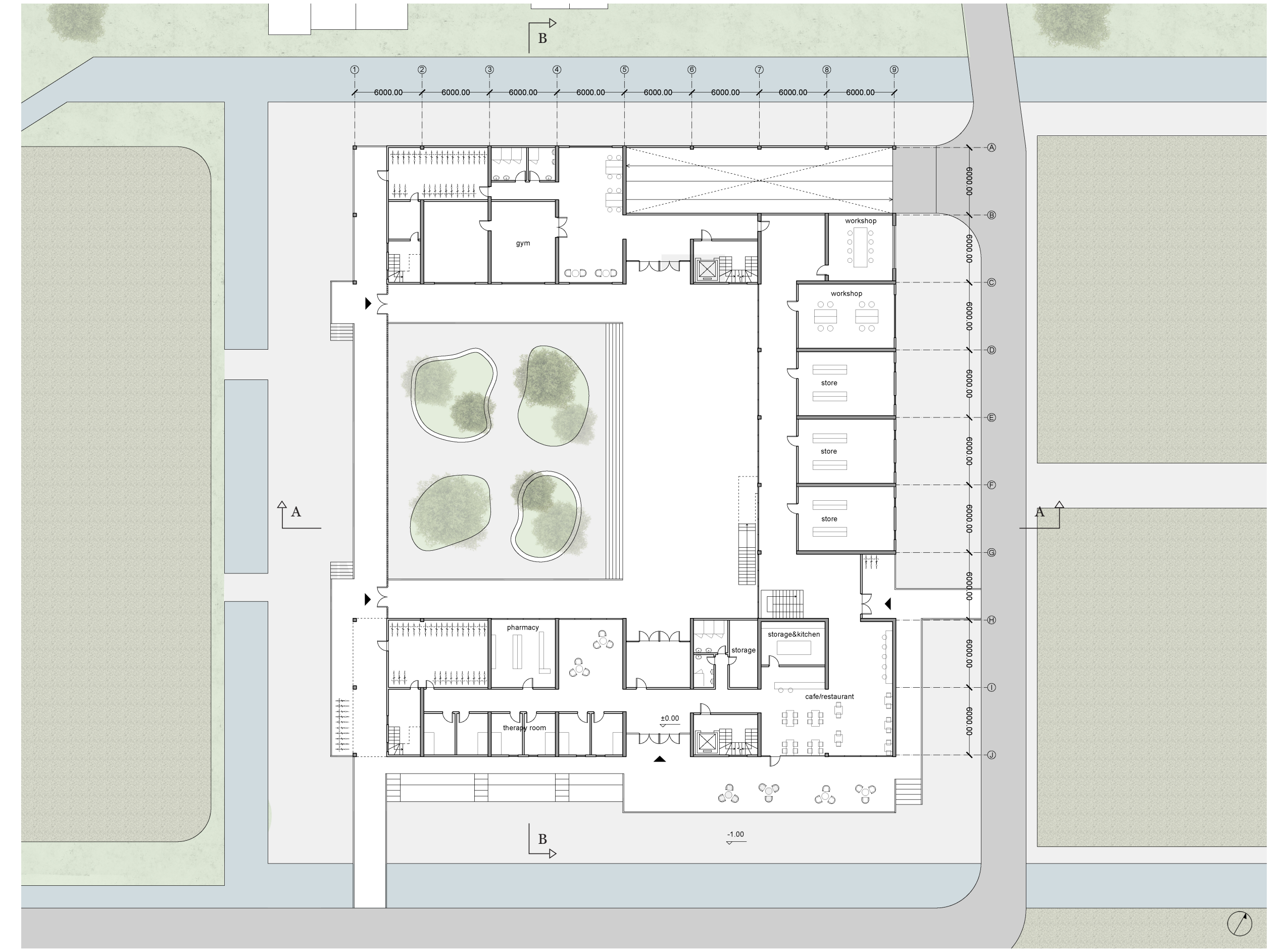
Bridge generations

Qiuyu Yang 5808235

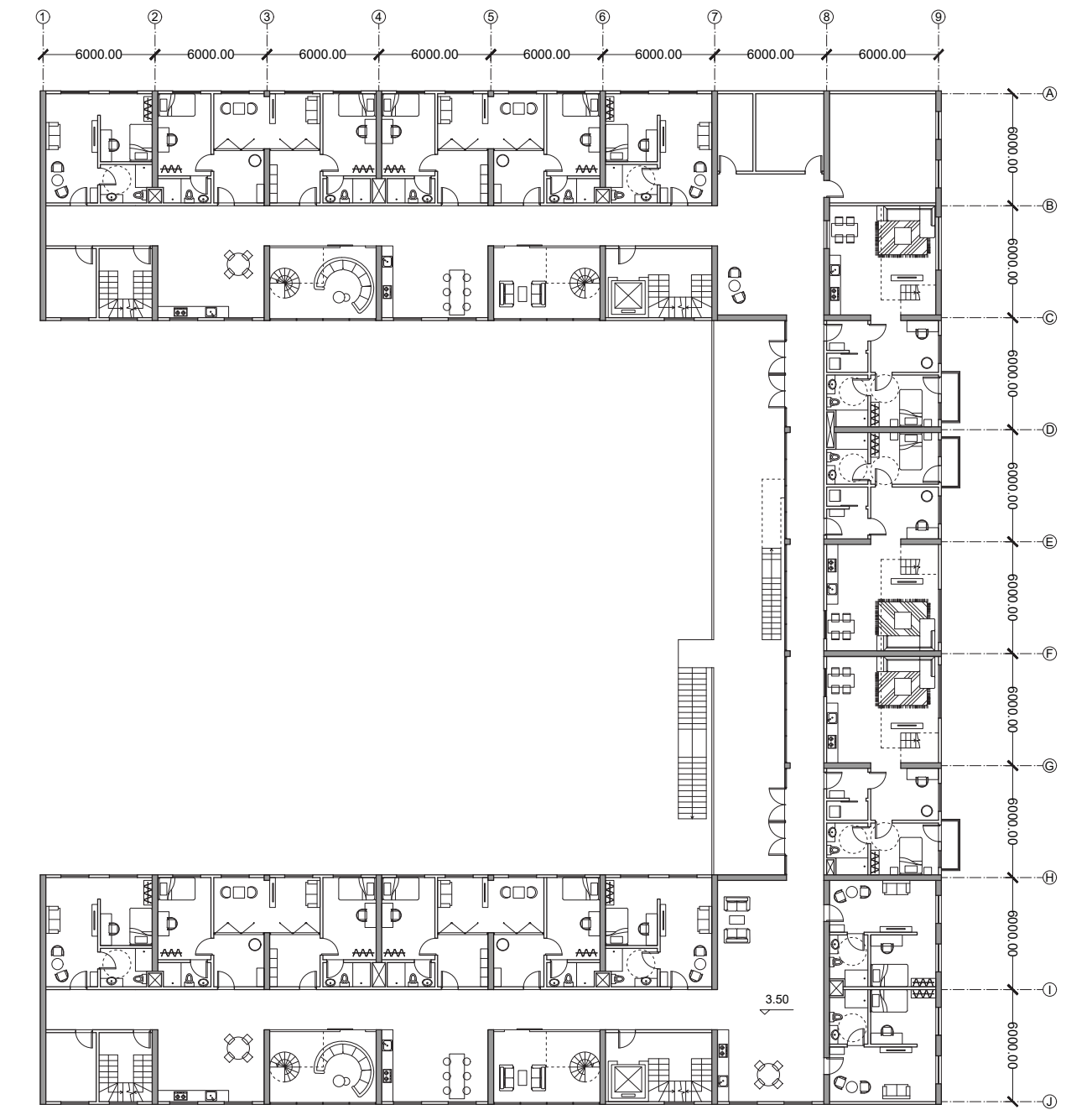


master plan 1:1000

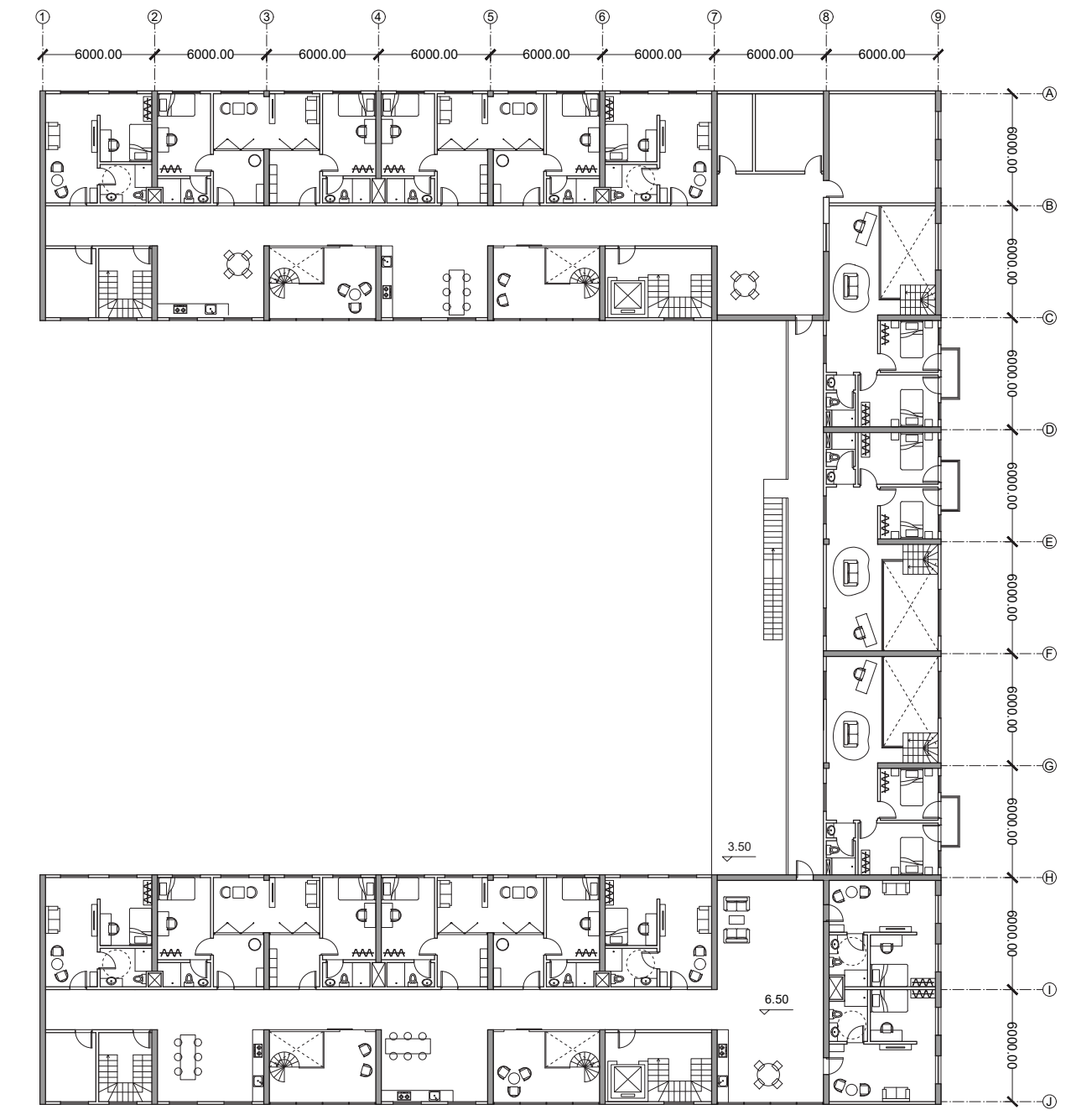




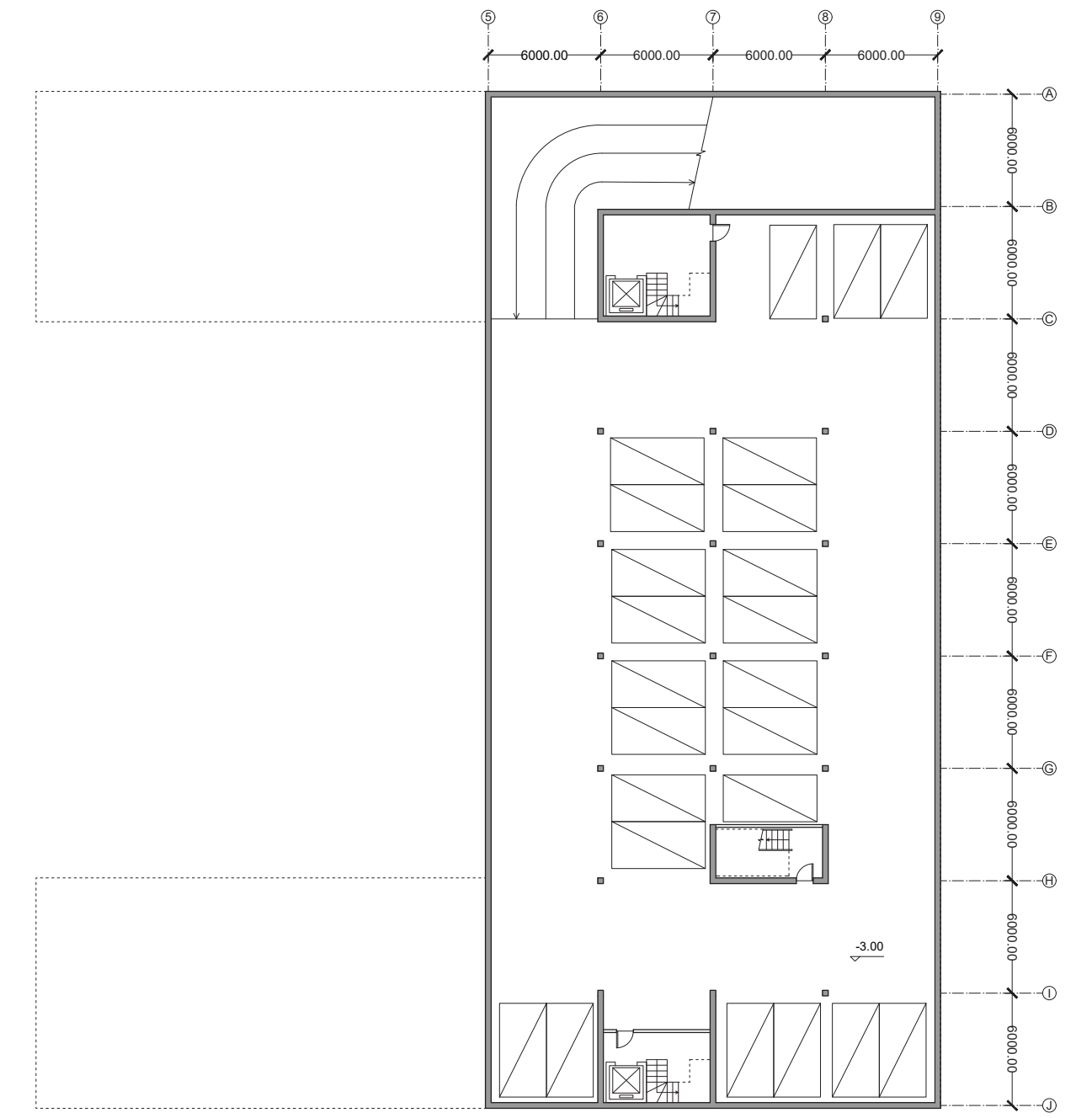
Ground floor plan 1:200



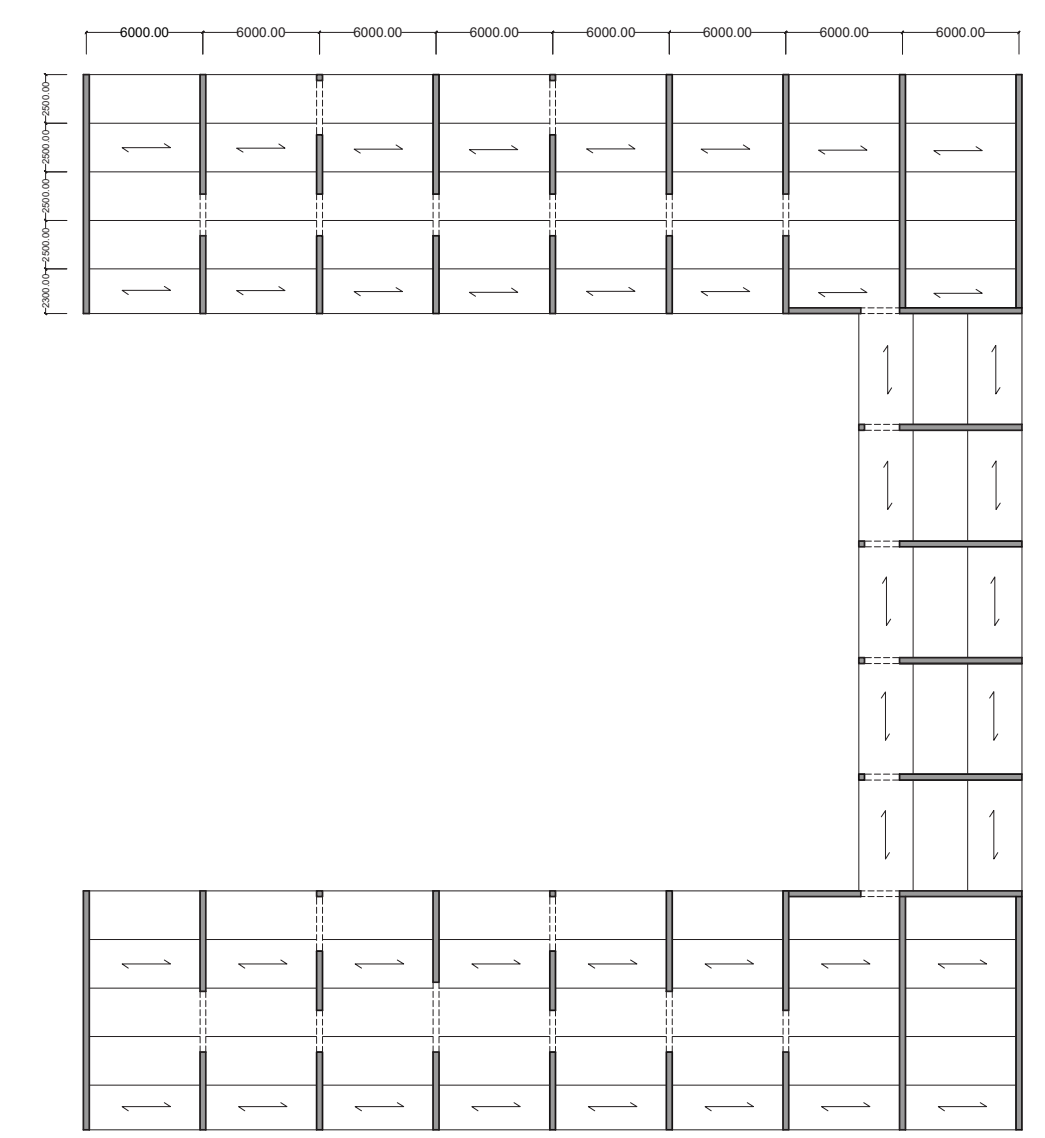
First floor plan 1:200



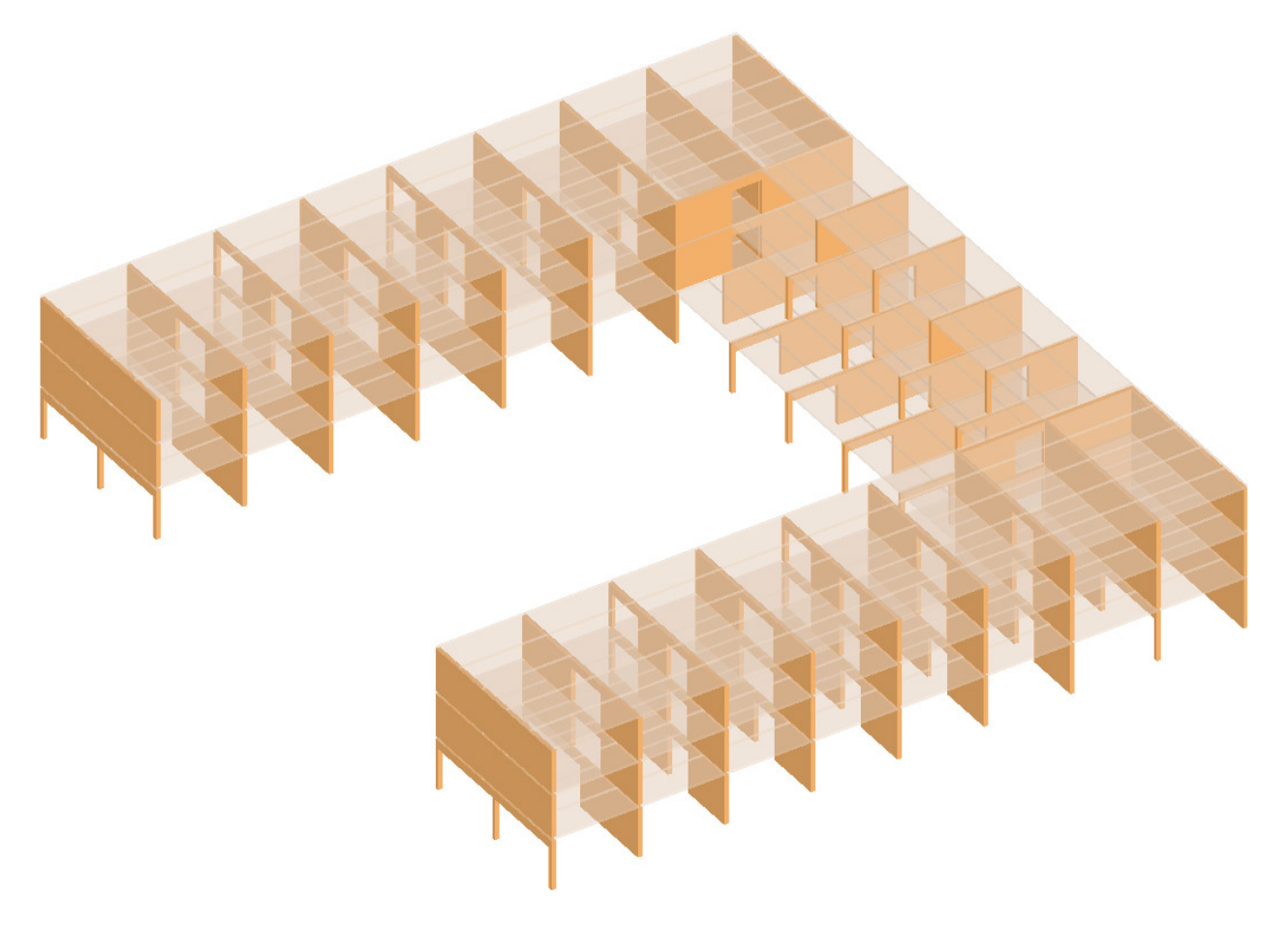
Second floor plan 1:200



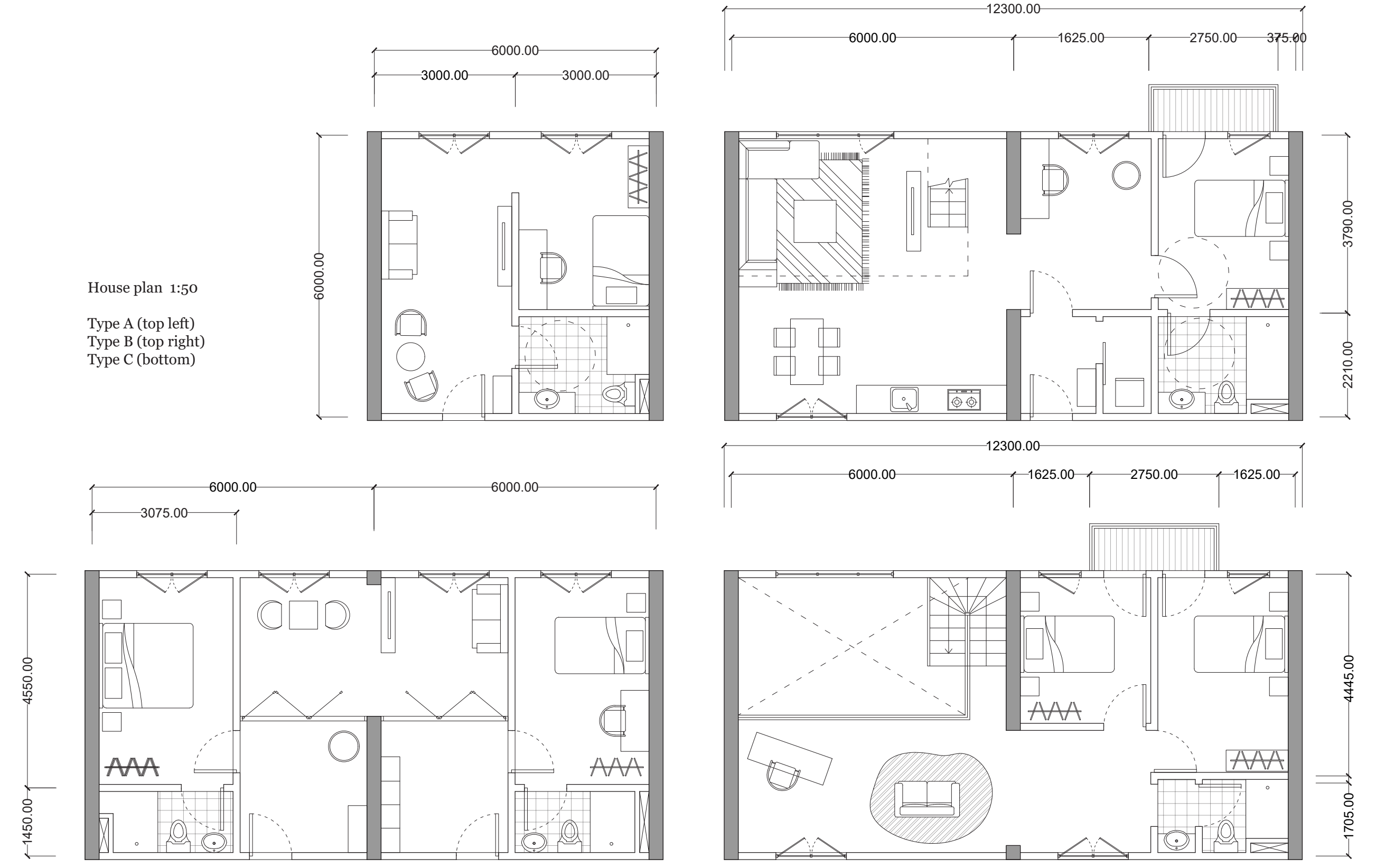
Basement floor plan 1:200



Structure span

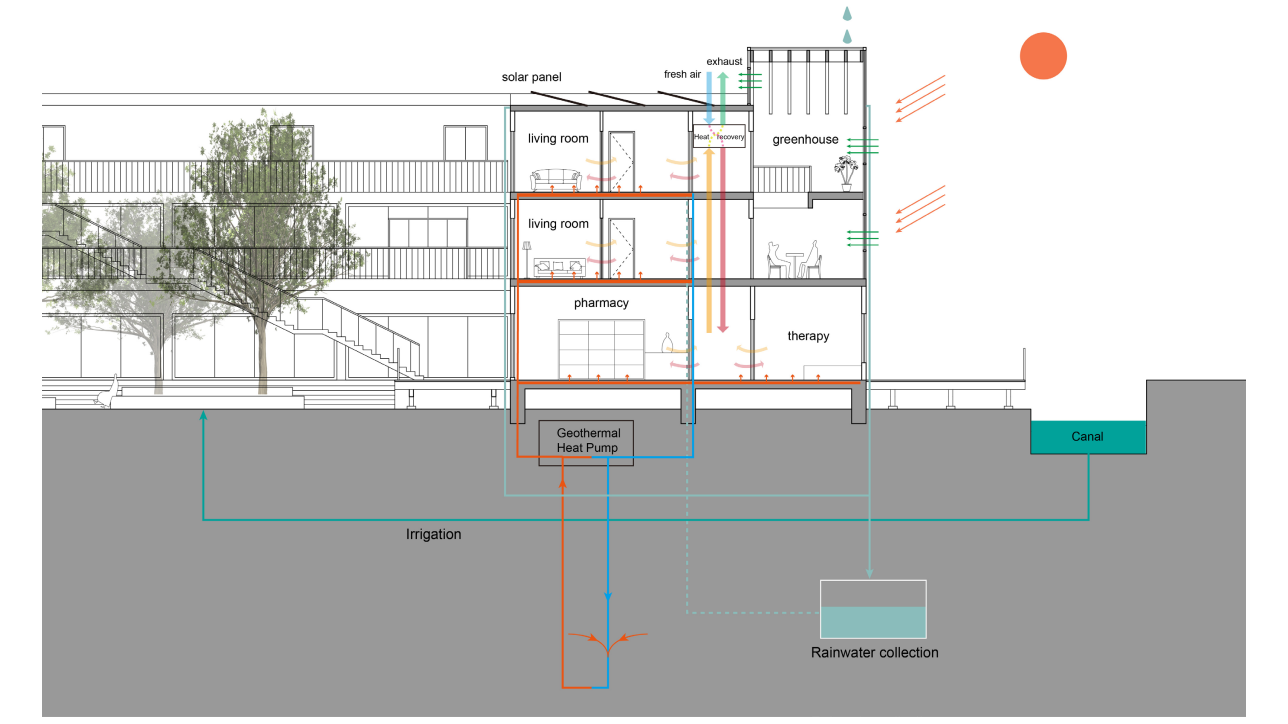


Structure axo

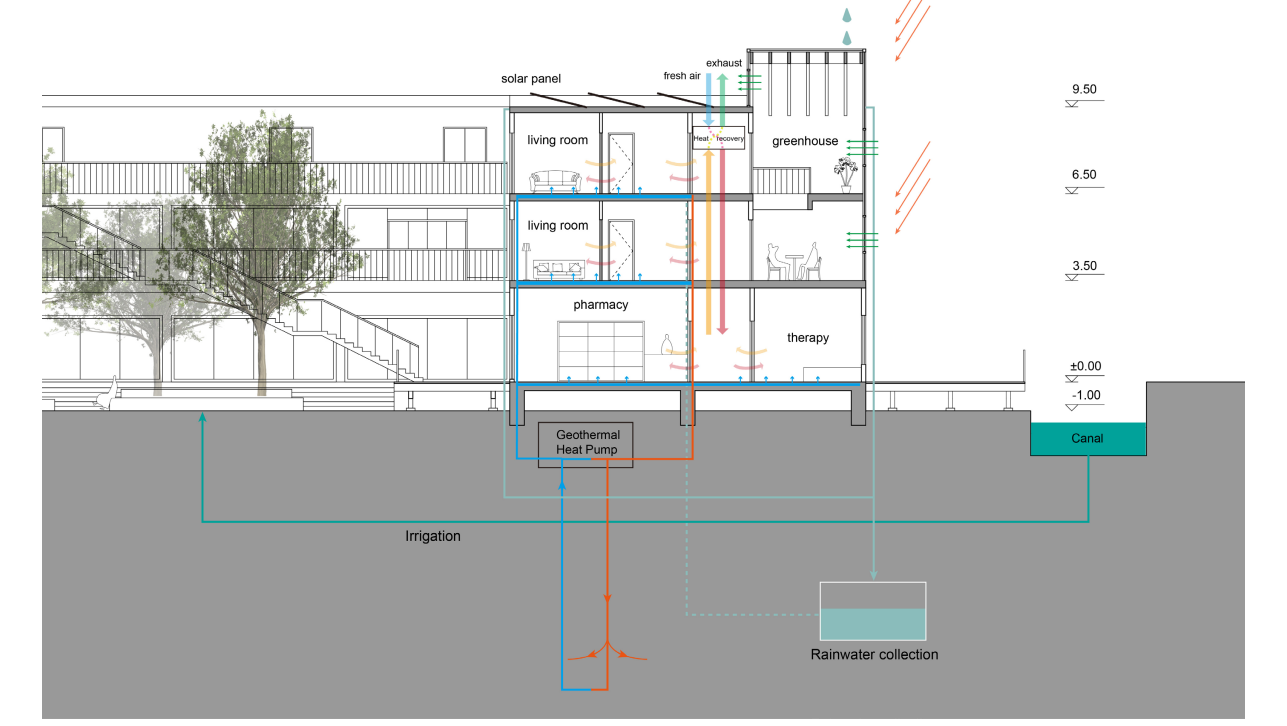

6000.00
3000.00
3000.00
6000.00
12300.00
6000.00
1625.00
2750.00
375.00
3790.00
2210.00
12300.00
6000.00
1625.00
2750.00
1625.00
6000.00
6000.00
3075.00
4550
1450.00
4445
1705.00

House plan 1:50

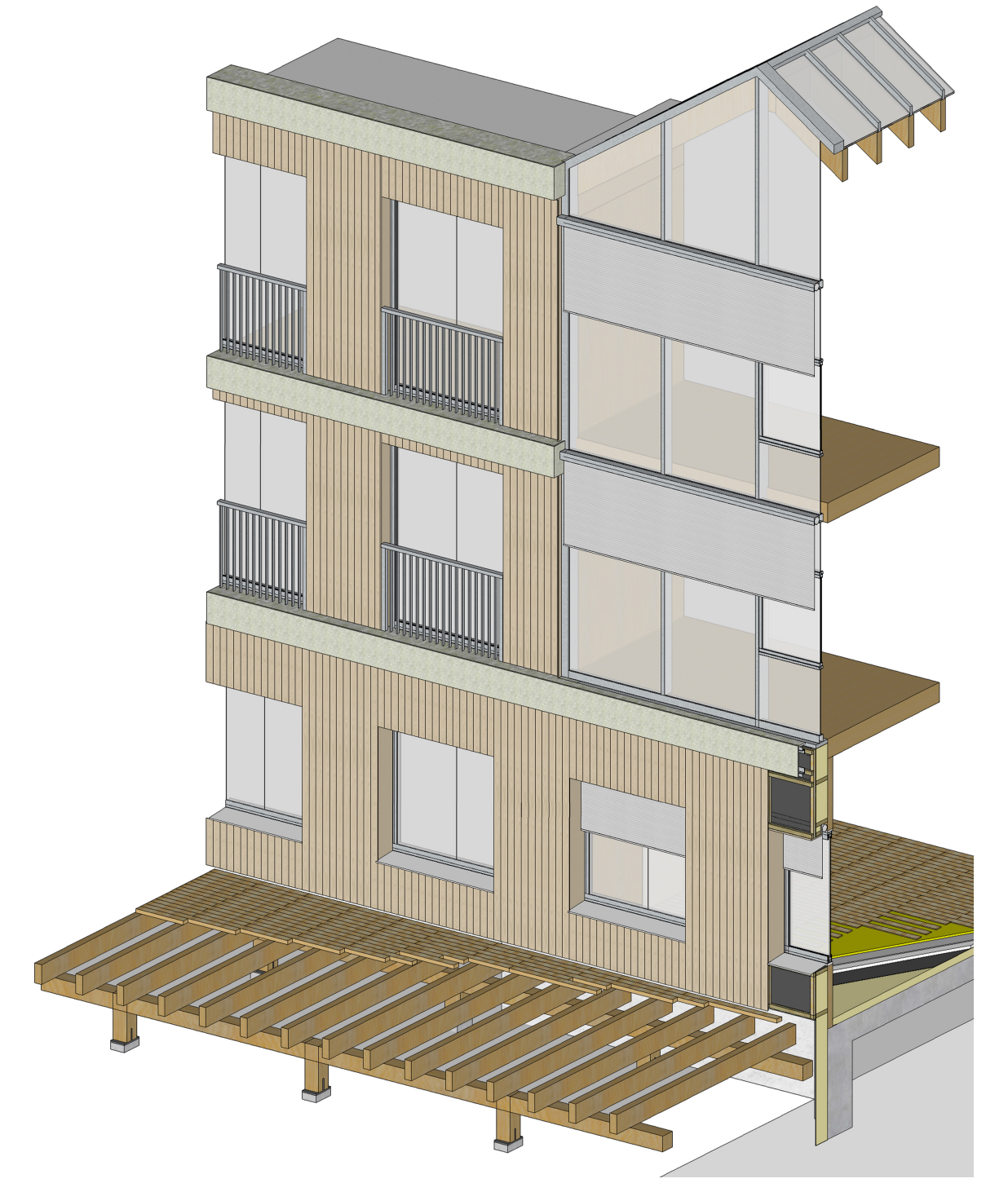
Type A (top left)
Type B (top right)
Type C (bottom)

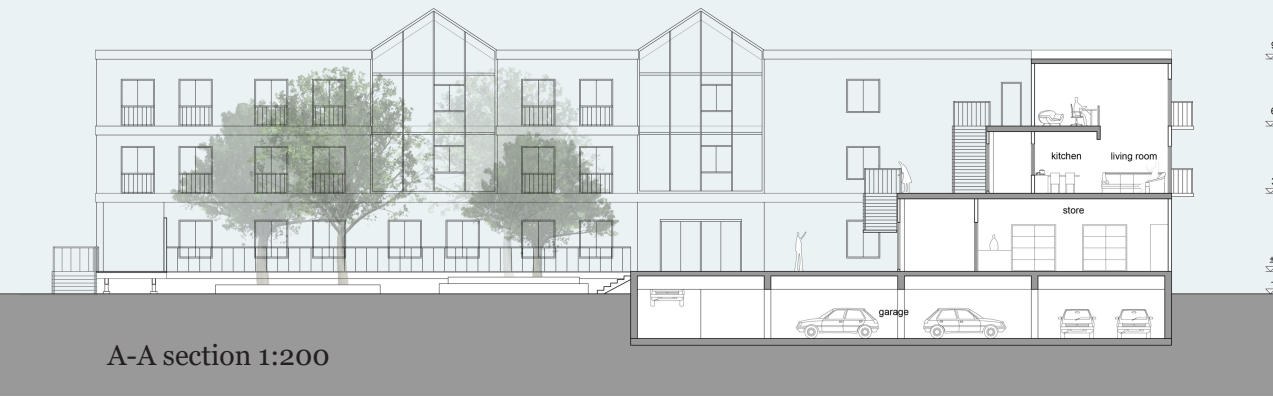

solar panel
fresh air
exhaust
living room
Heat recovery
greenhouse
living room
pharmacy
therapy
Geothermal Heat Pump
Irrigation
Canal
Rainwater collection

Climate concept (winter)

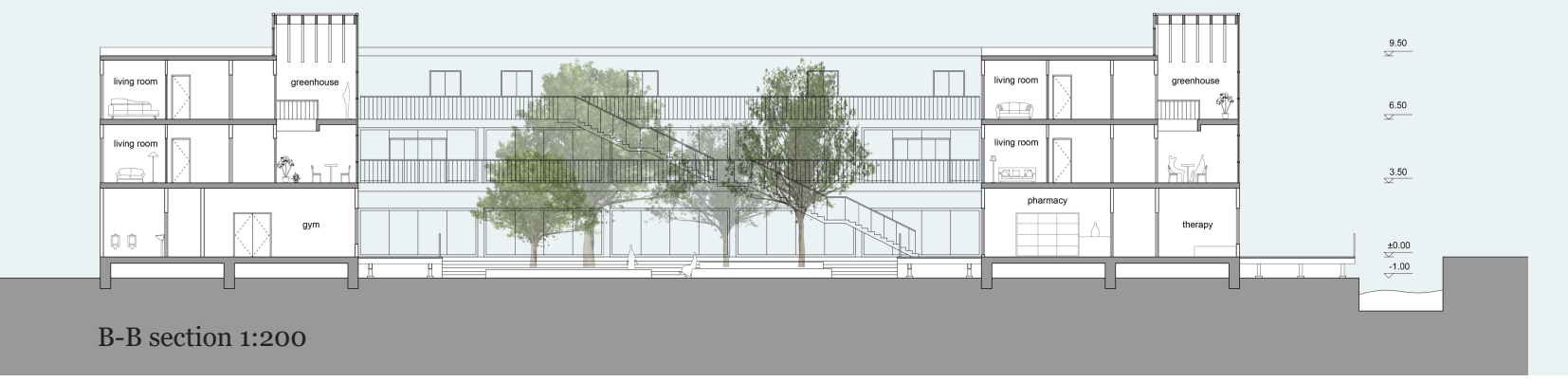

solar panel
fresh air
exhaust
living room
Heat recovery
greenhouse
living room
pharmacy
therapy
Geothermal Heat Pump
Irrigation
Canal
Rainwater collection
9.50
6.50
3.50
±0.00
-1.00

Climate concept (summer)

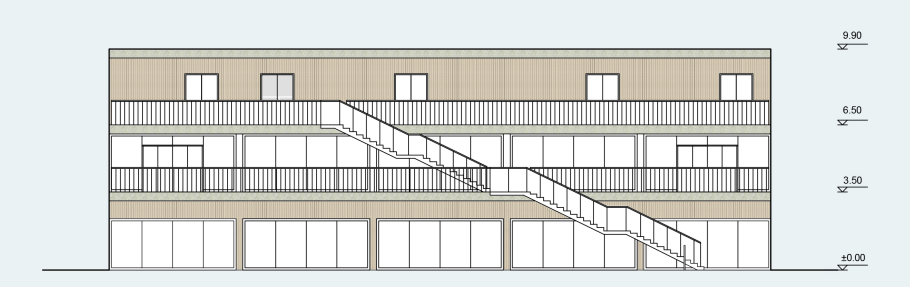



kitchen
living room
store
garage

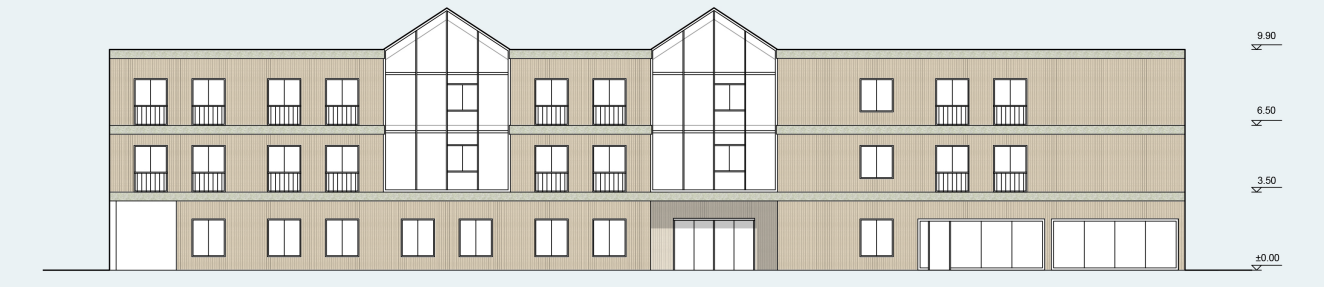
A-A section 1:200


living room
greenhouse
living room
gym
living room
greenhouse
living room
pharmacy
therapy

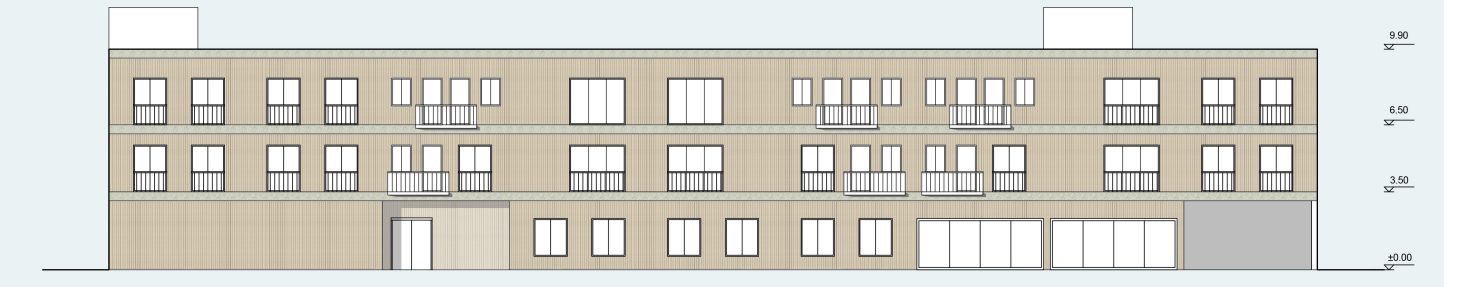
B-B section 1:200



inner west facade 1:200



outer south facade 1:200



outer east facade 1:200

Bridge generations

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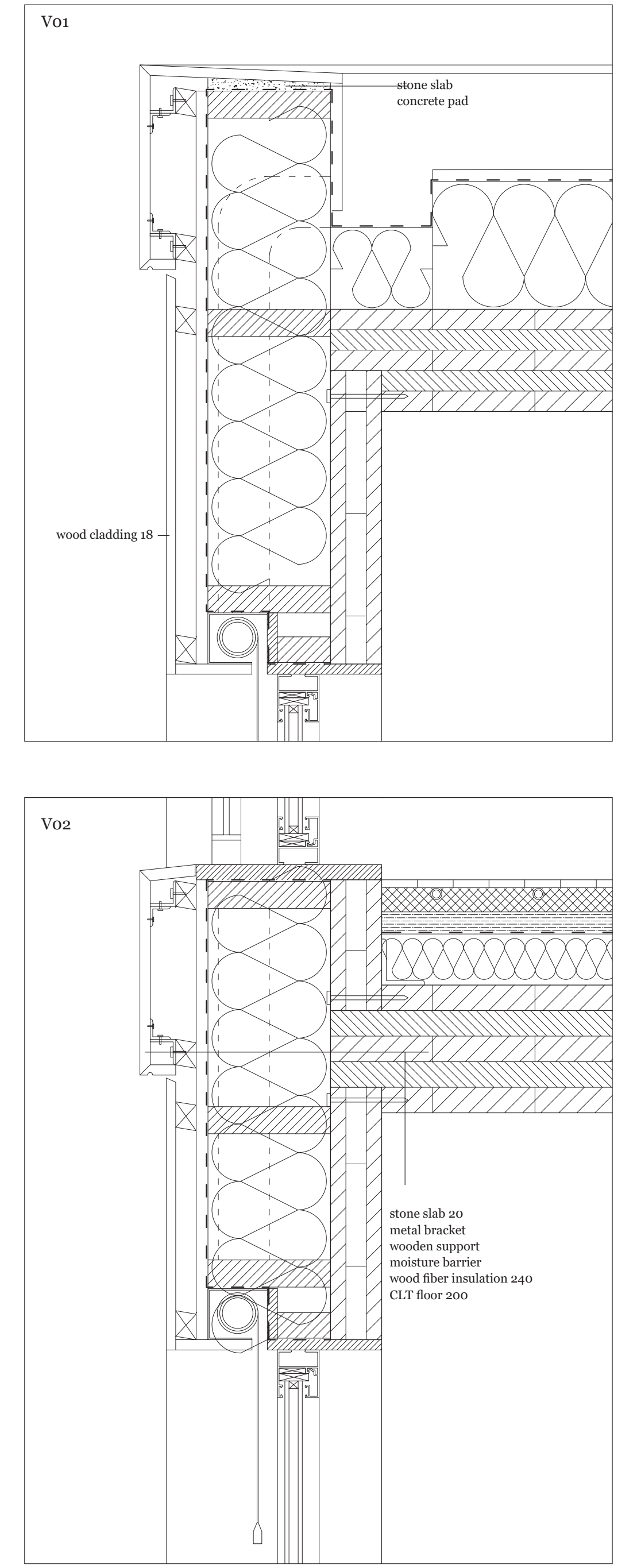
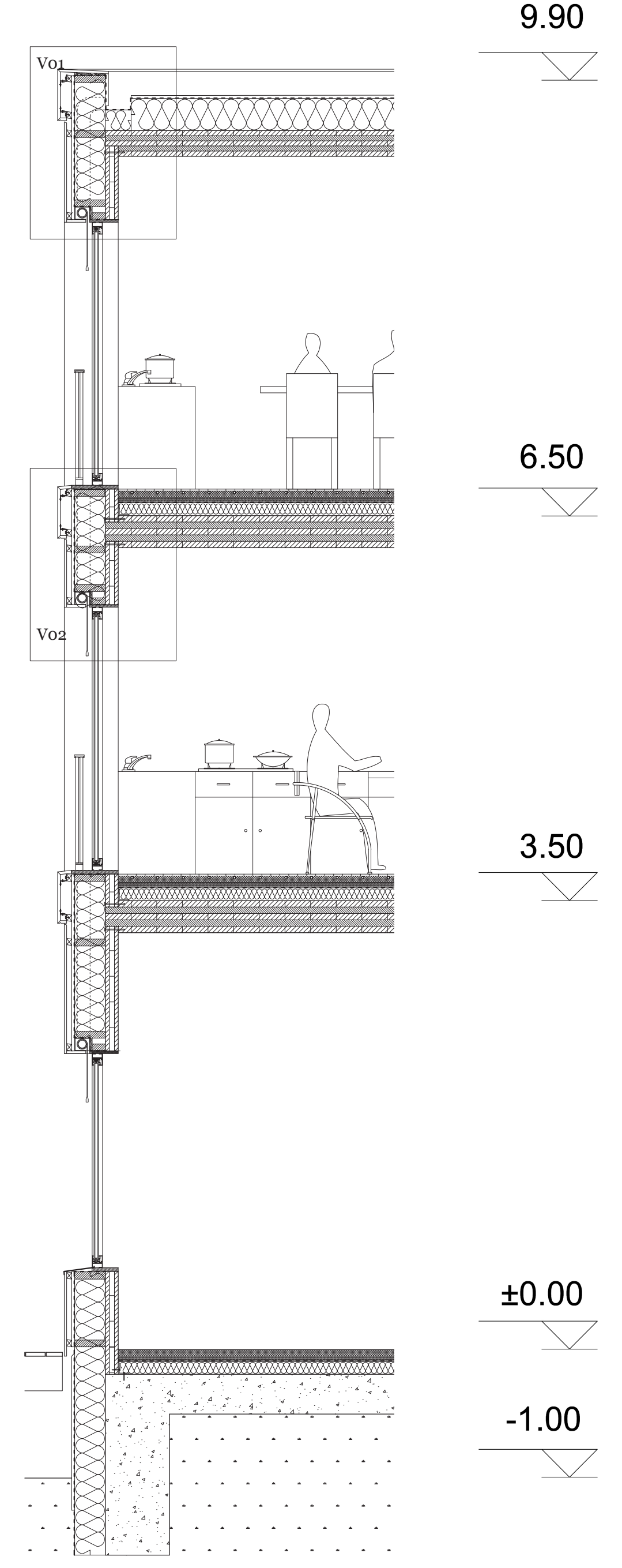
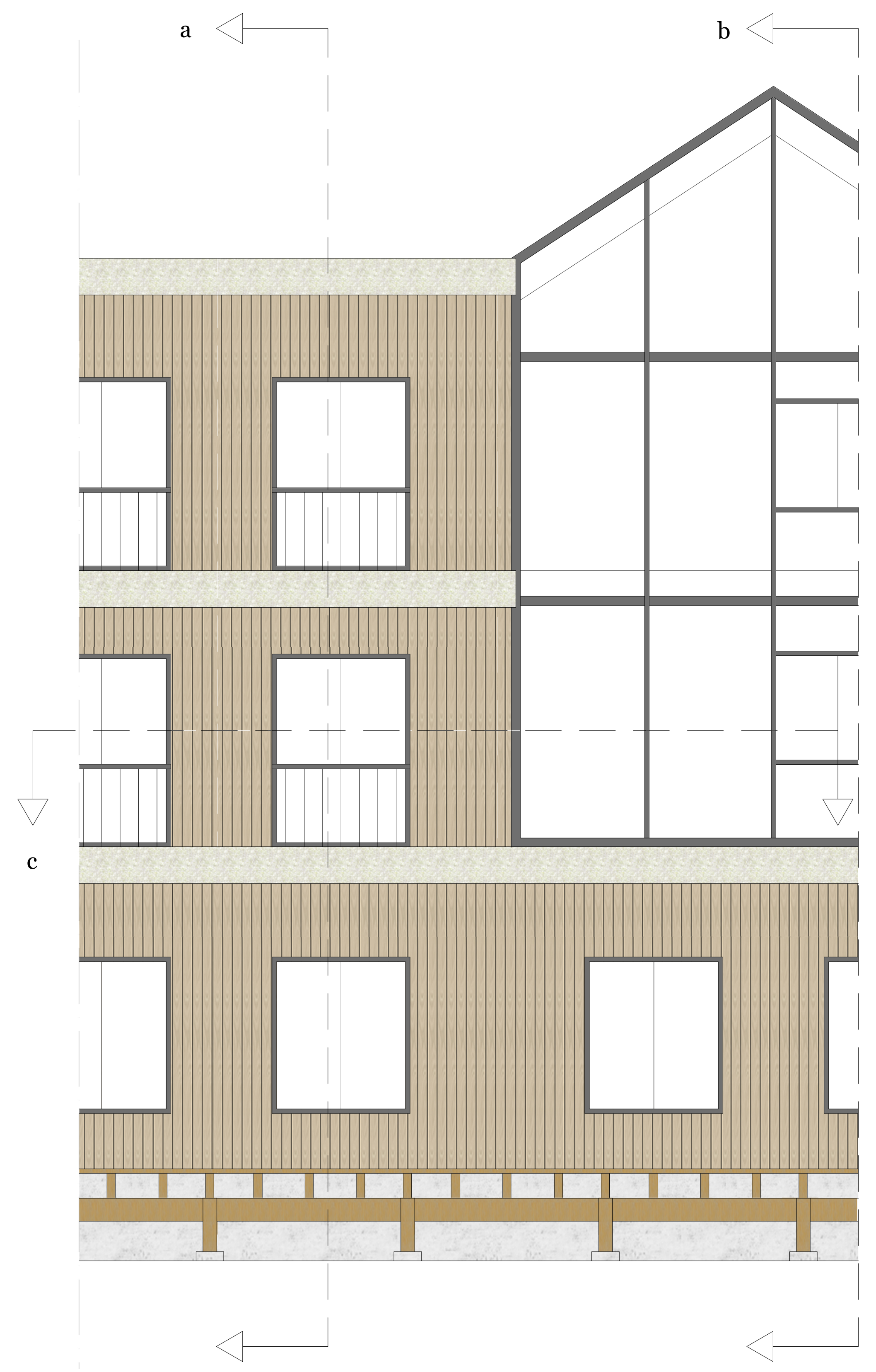

V01
stone slab
concrete pad
wood cladding 18
V02

stone slab 20
metal bracket
wooden support
moisture barrier
wood fiber insulation 240
CLT floor 200

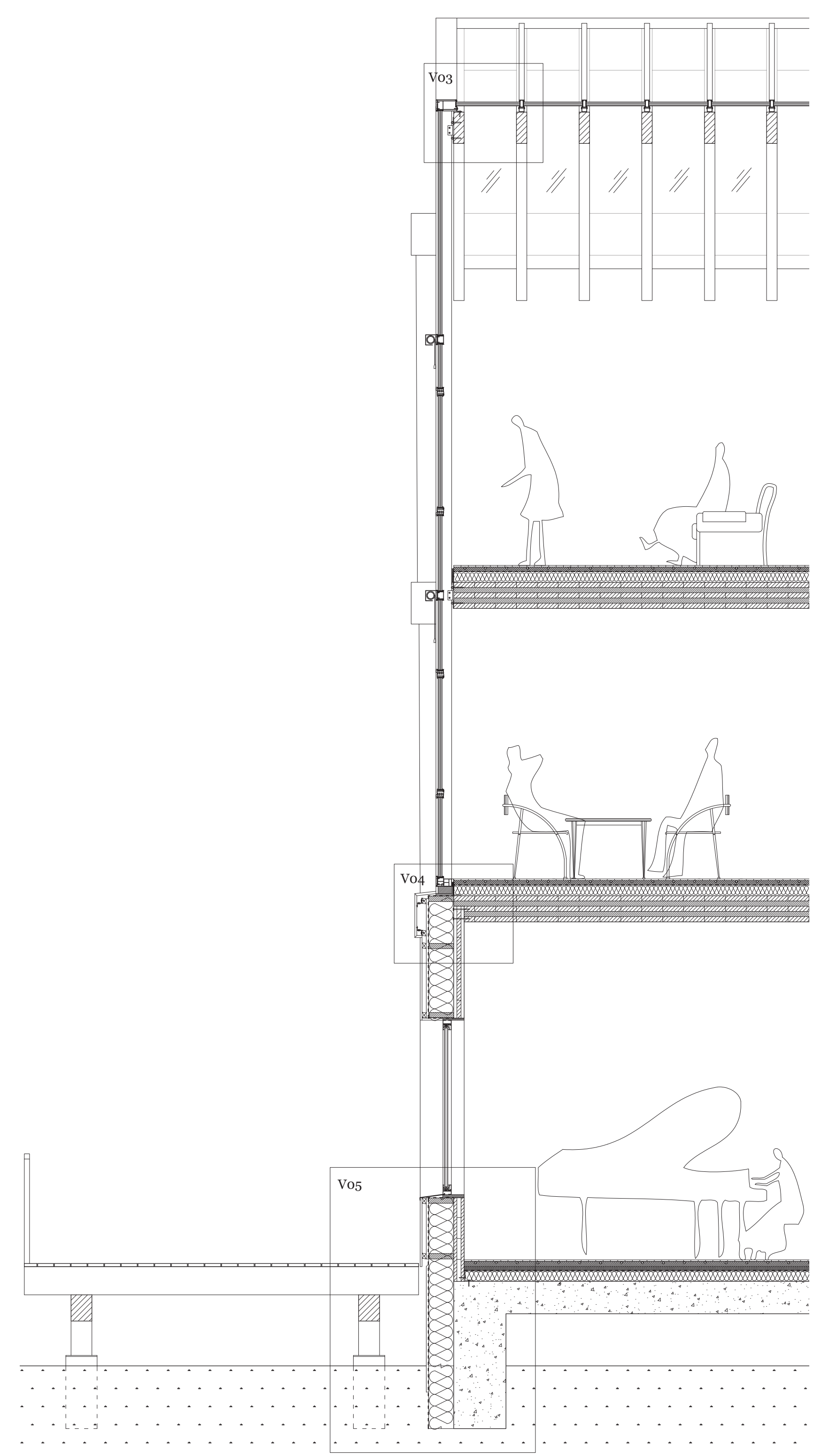
Details 1:5


V01
V02
9.90
6.50
3.50
±0.00
-1.00

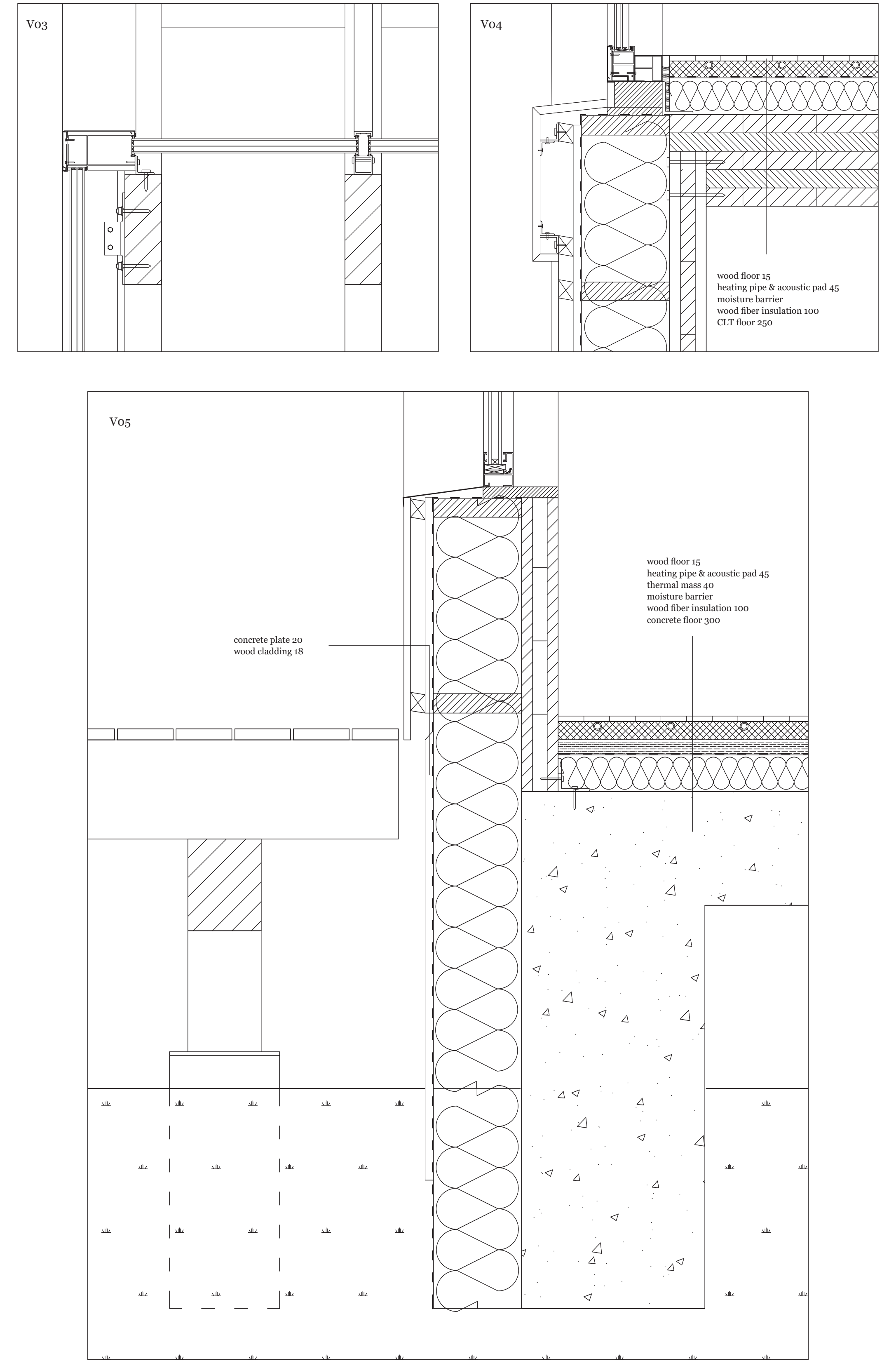
Detail section-a 1:20



Facade fragment 1:20



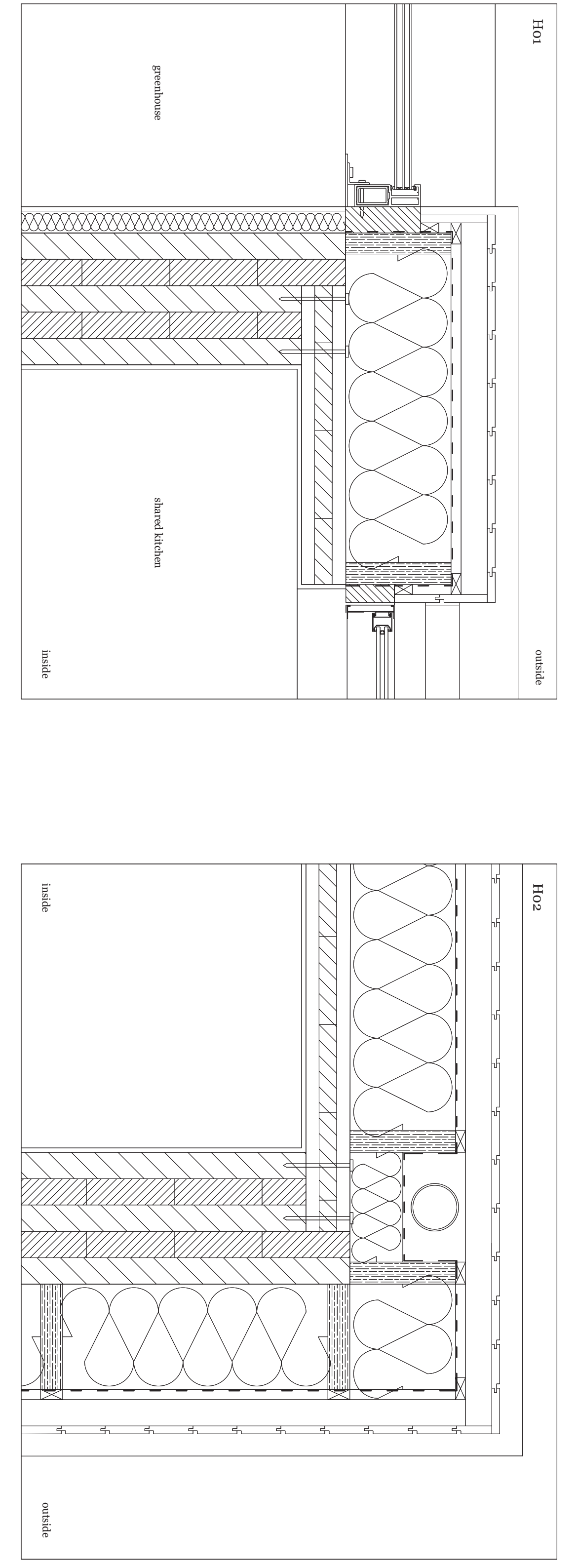
Detail section-b 1:20


V03
V04
V05
concrete plate 20
wood cladding 18

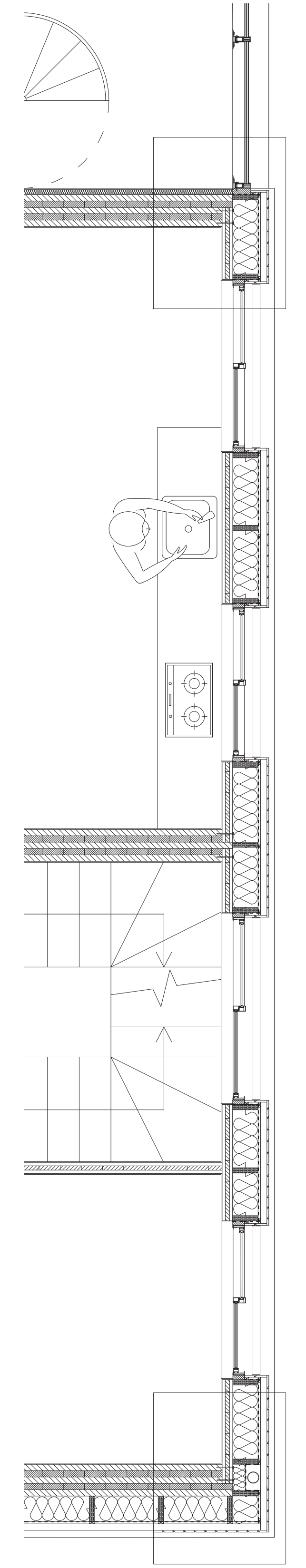
wood floor 15
heating pipe & acoustic pad 45
moisture barrier
wood fiber insulation 100
CLT floor 250

wood floor 15
heating pipe & acoustic pad 45
thermal mass 40
moisture barrier
wood fiber insulation 100
concrete floor 300

Details 1:5


H01
greenhouse
shared kitchen
inside
outside
H02
inside
outside

Details 1:5



Detail section-c 1:20