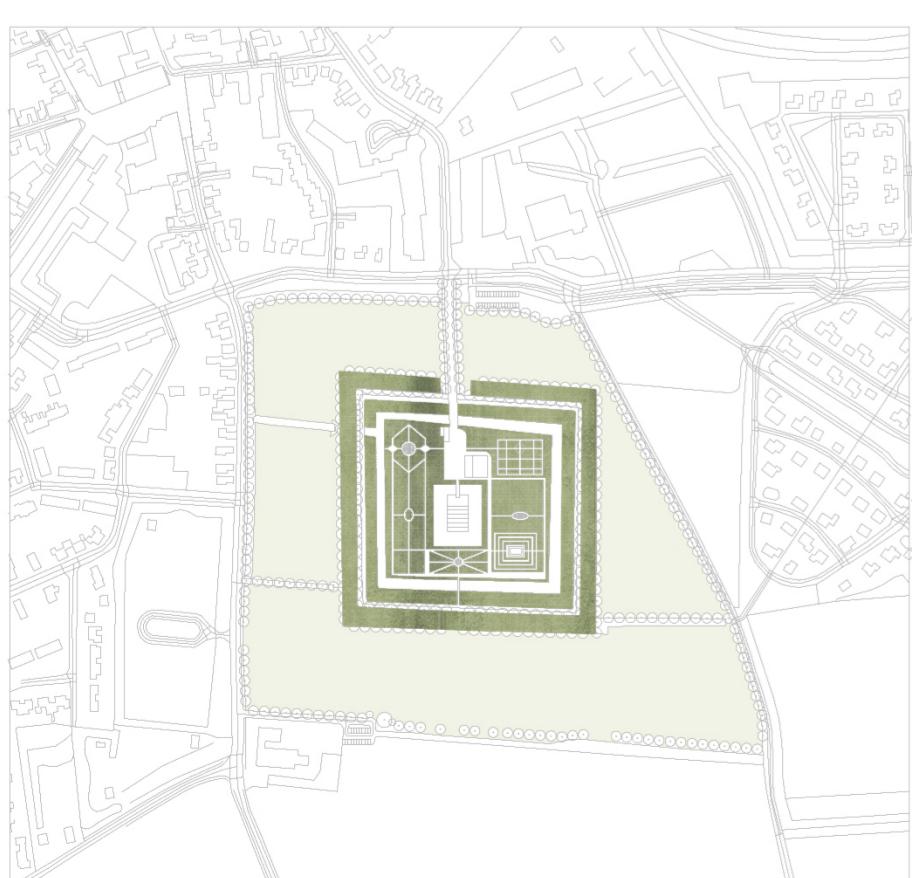


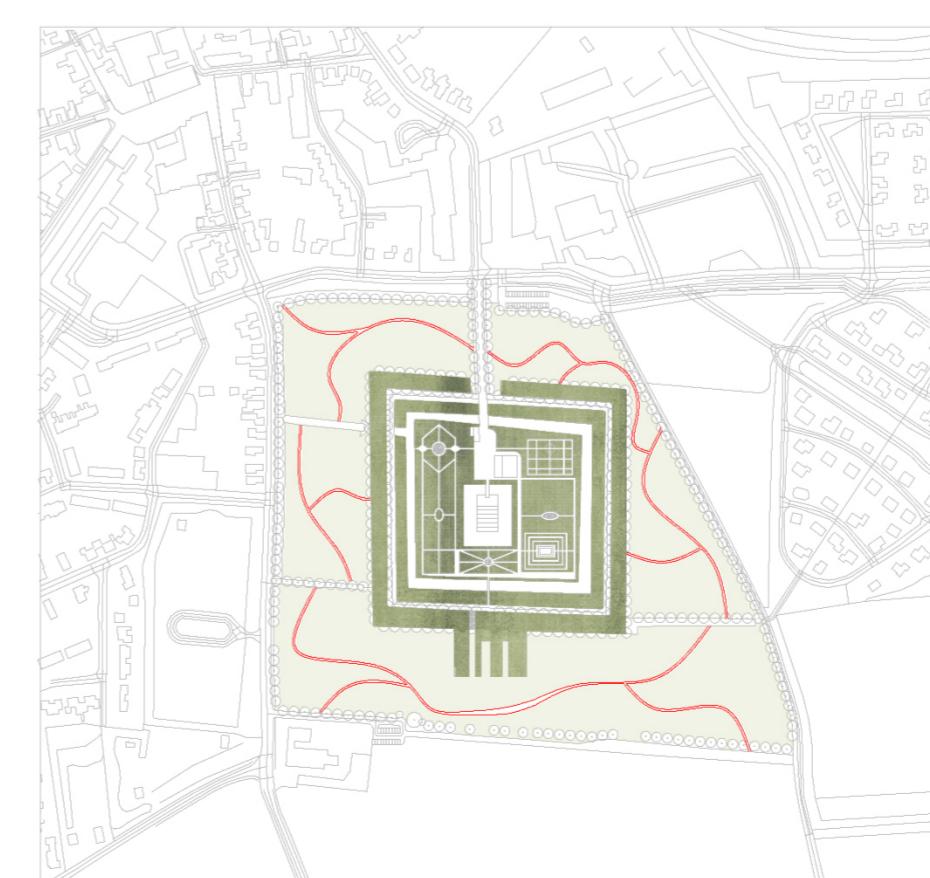
INTERVENTION OF THE CONTEXT



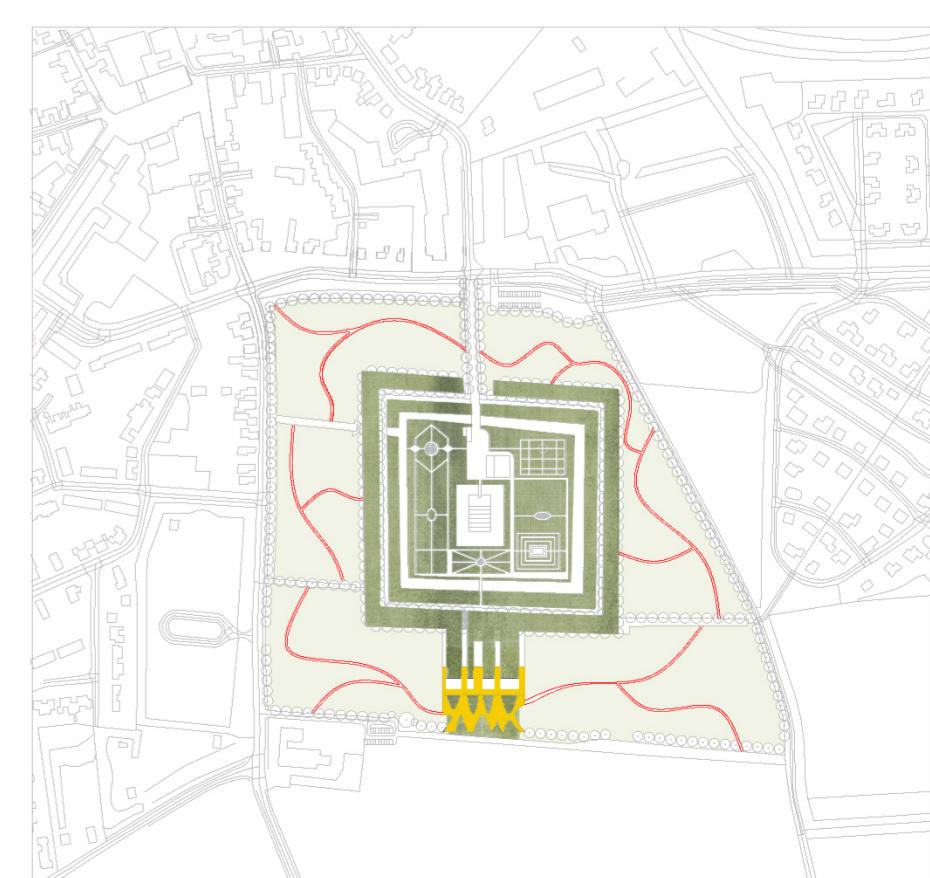
Original Historical Garden



Insert a new walking route into the outer range of garden



Extending the landscape of garden following center axis.

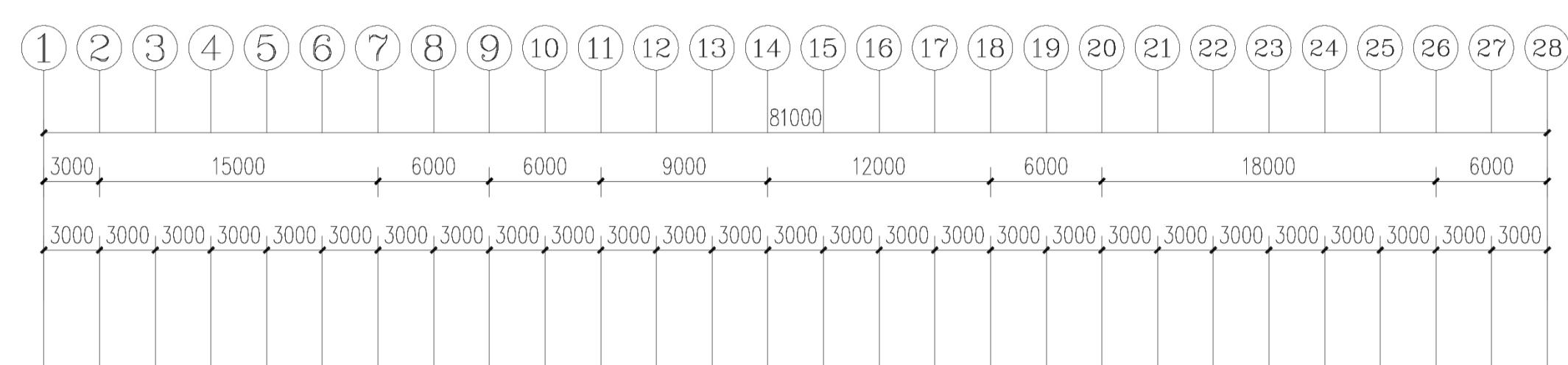


My botanical exhibition center design is at the end of the spatial sequence.

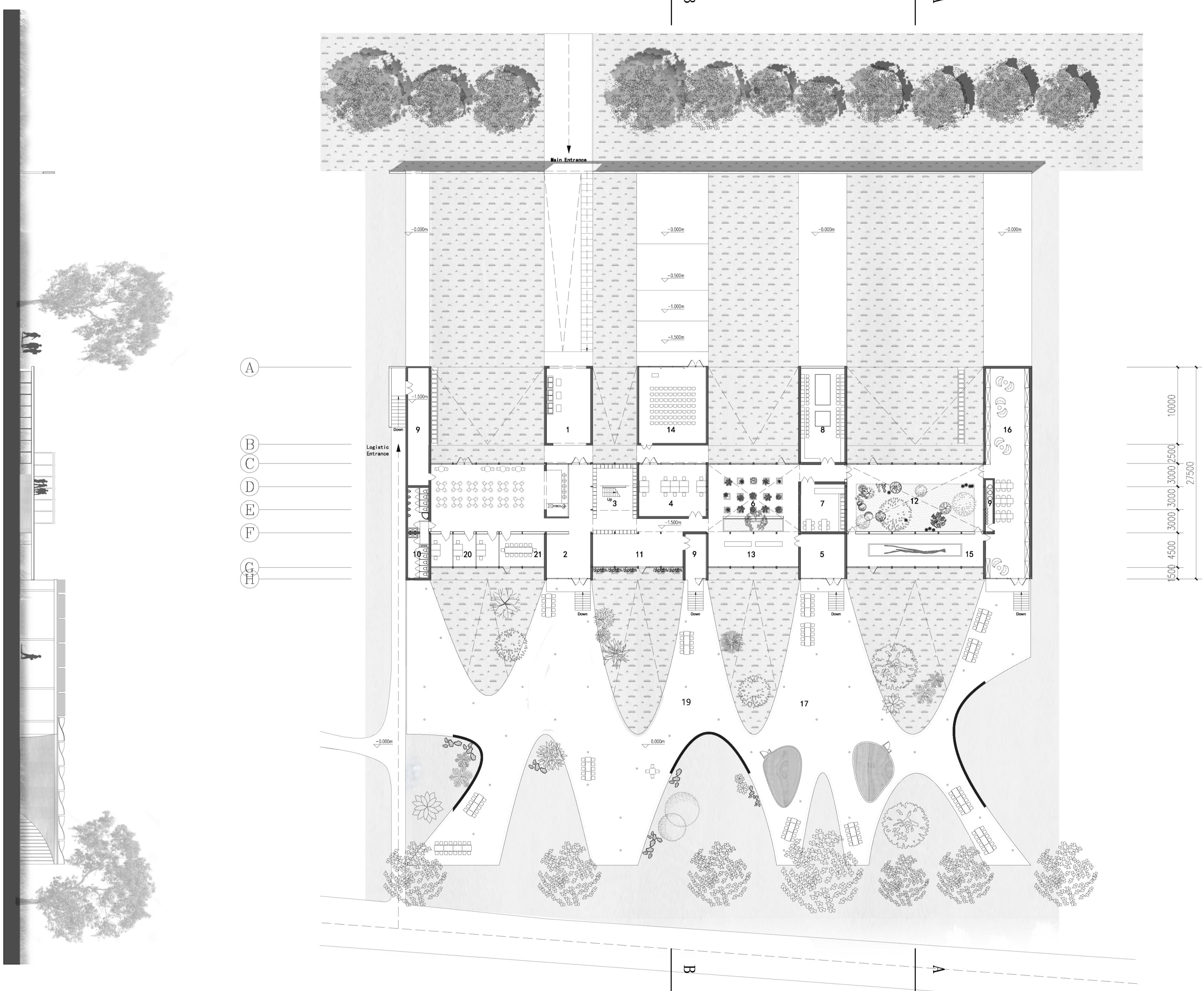
- 1.lobby 20m2
- 2.souvenier shop
- 3.Seed Conservation Display
- 4.herbarium Room
- 5.Pharmacy-Making Room
- 6.Herb plant,Moss,bush,
Earth surface plant
- 7.Perfume-Making Room
- 8.Tea-making Room
- 9.Mainteinance and Storage Room
- 10.toilets
- 11.Climbing plant disply
- 12.Tropical Botanical Center
- 13.Tree root section display
- 14.auditorium room
- 15.Deadwood display
- 16.Reading Room(conservation room)
- 17.Bird nestle house
- 18.Honeybee house
- 19.Forest Pavilion
- 20.office room
- 21.Meeting Room



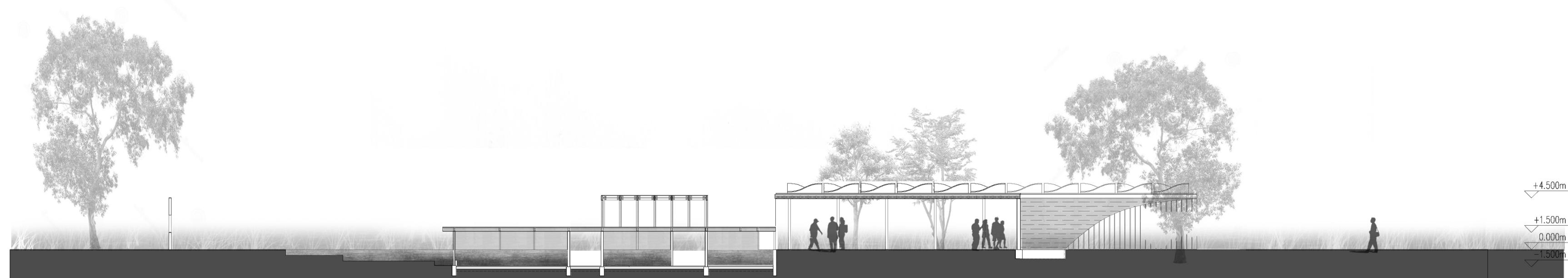
North Elevation 1:300



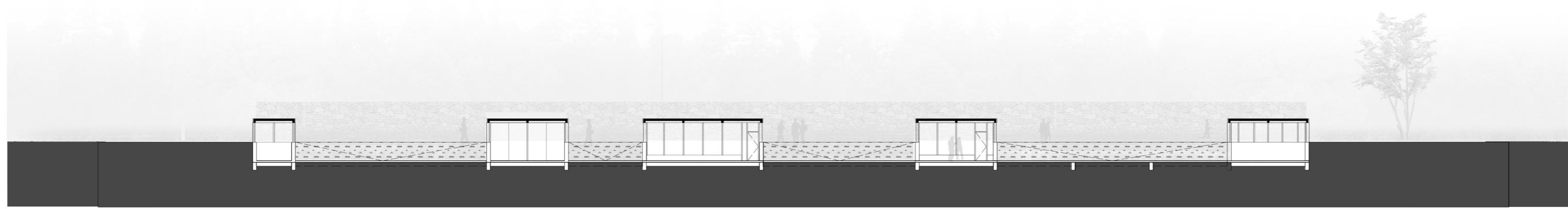
$$\begin{array}{r} \diagup +4.500m \\ \diagdown -1.500m \\ \hline 0.000m \end{array}$$



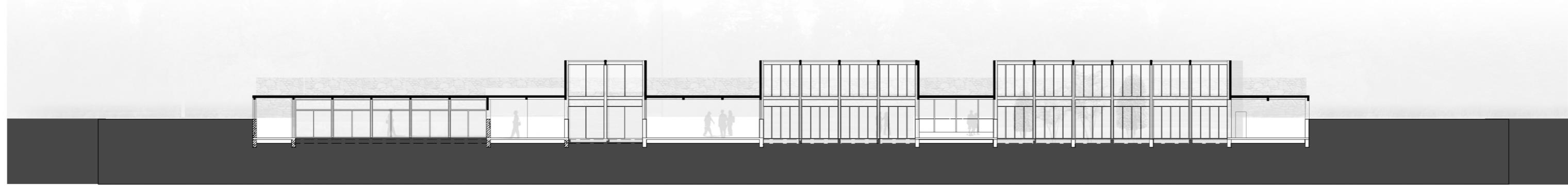
-1. 000m Floor Plan 1:300



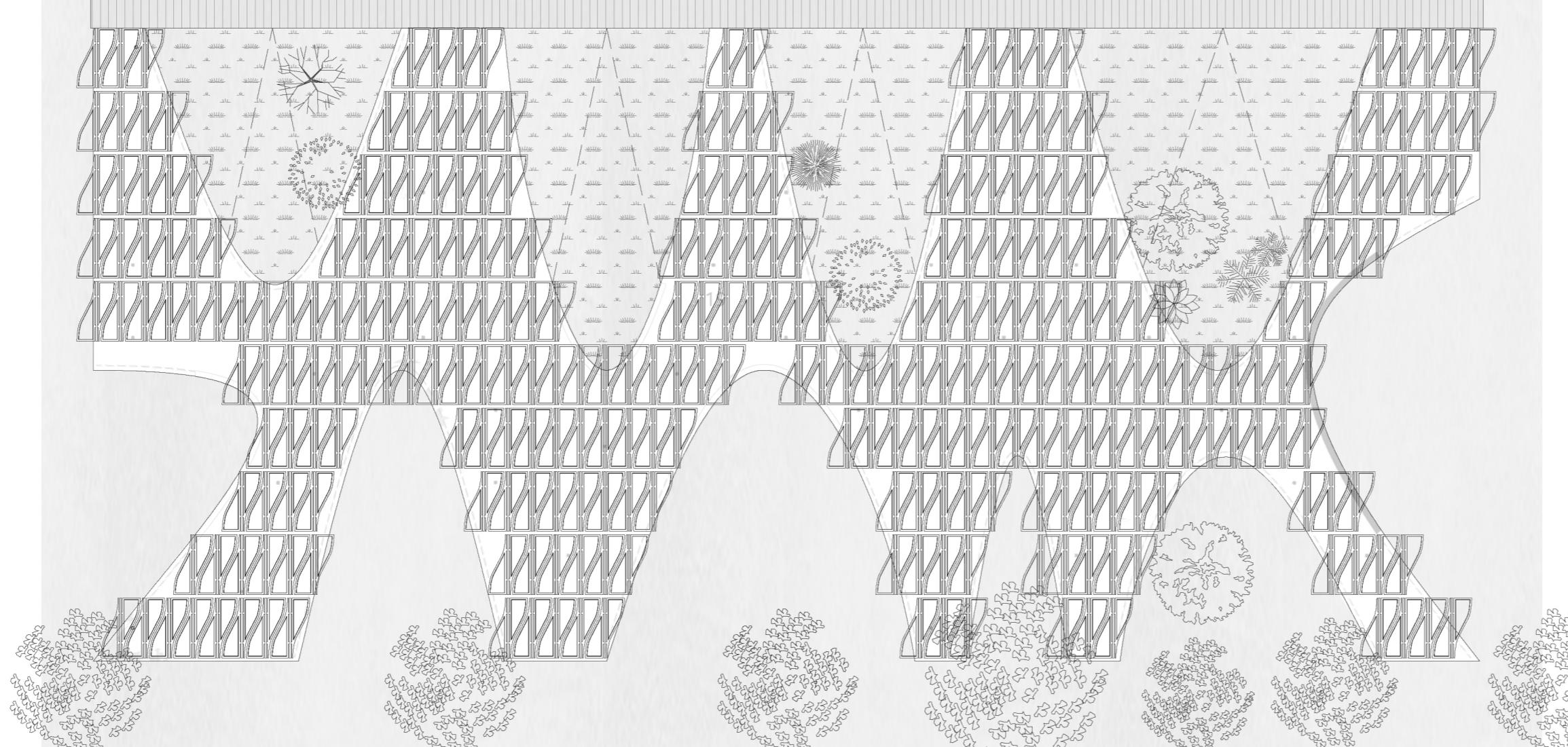
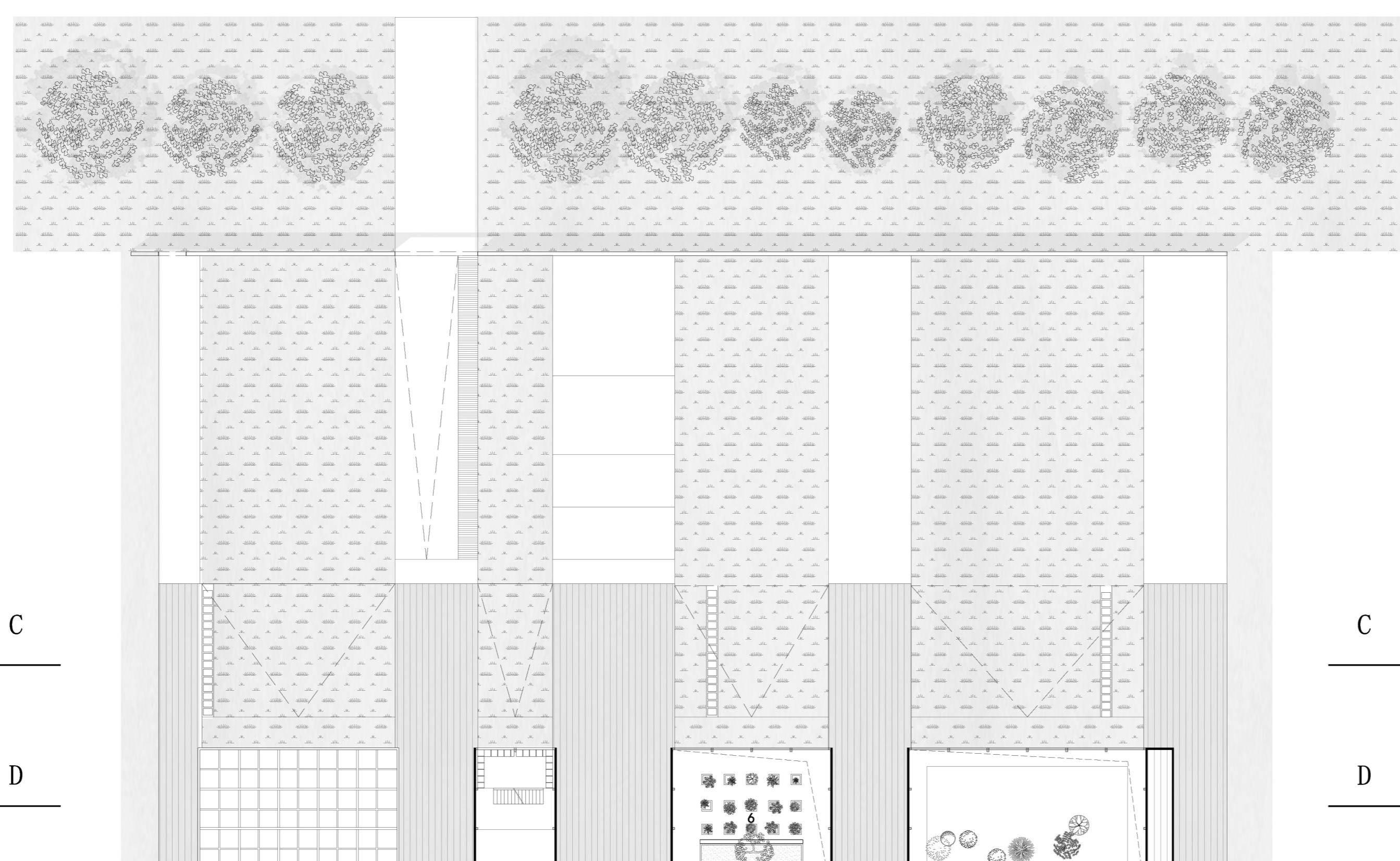
B-B Section 1:300



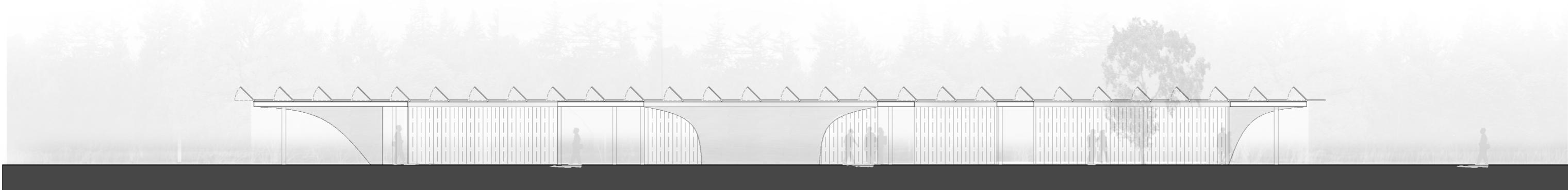
C-C Section 1:300



D-D Section 1:300

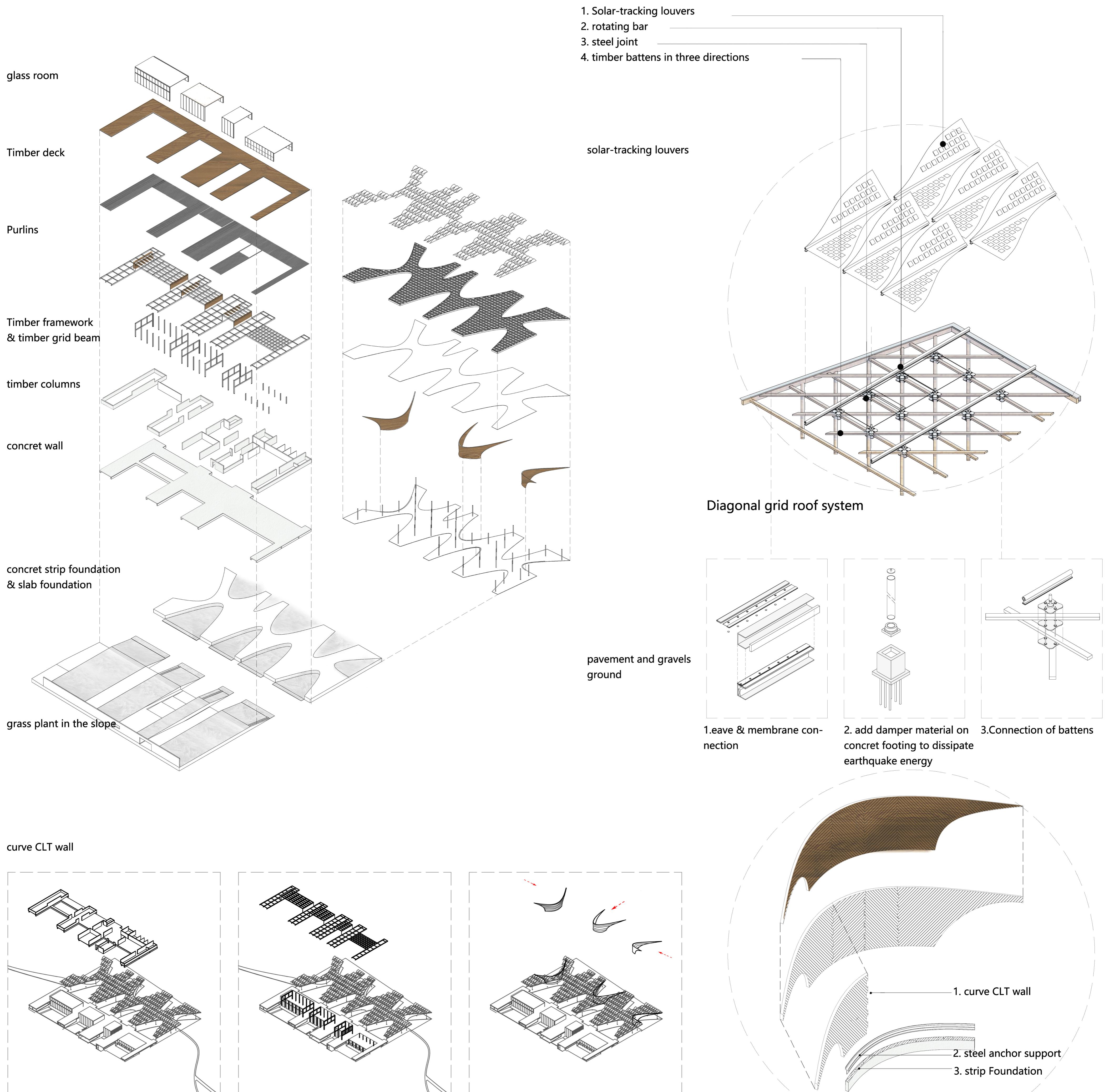


Top Floor Plan 1:300



South Elevation 1:300

Axonometric Perspective of Structure:

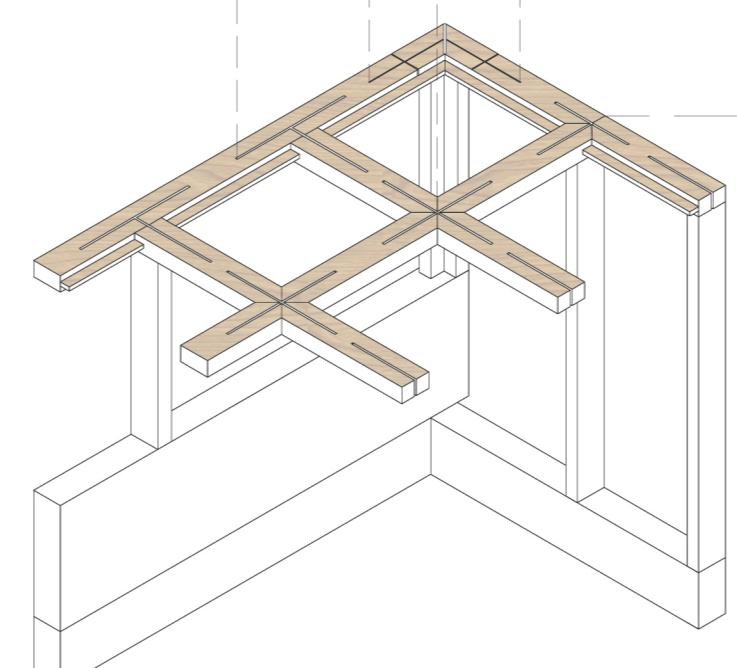
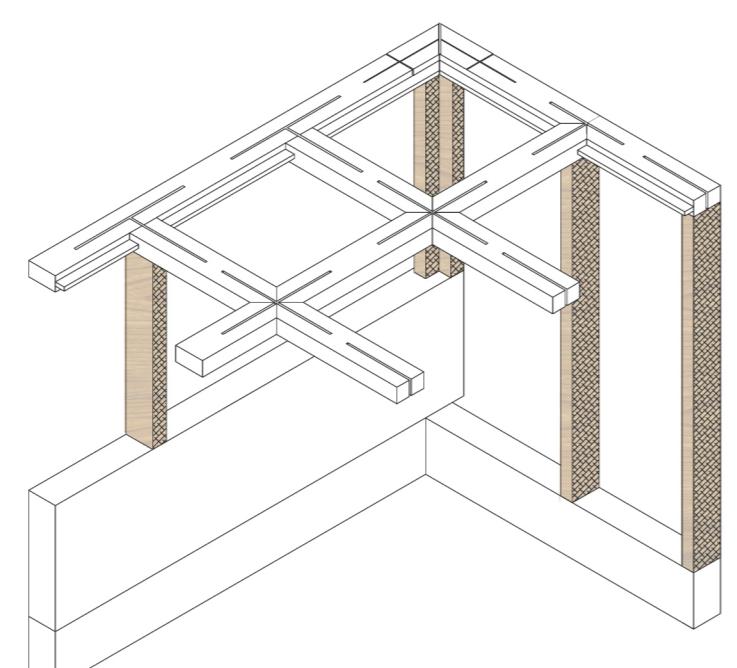
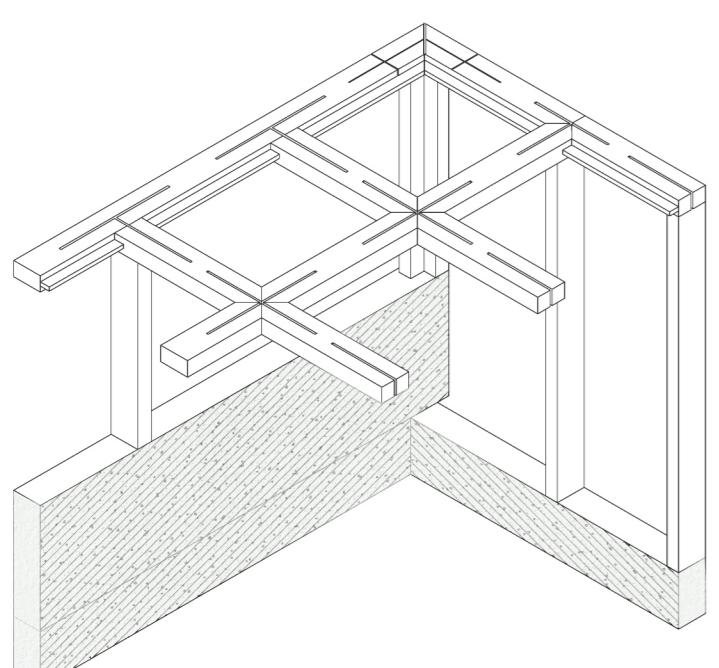


Construction Steps & Seismic Strategy:

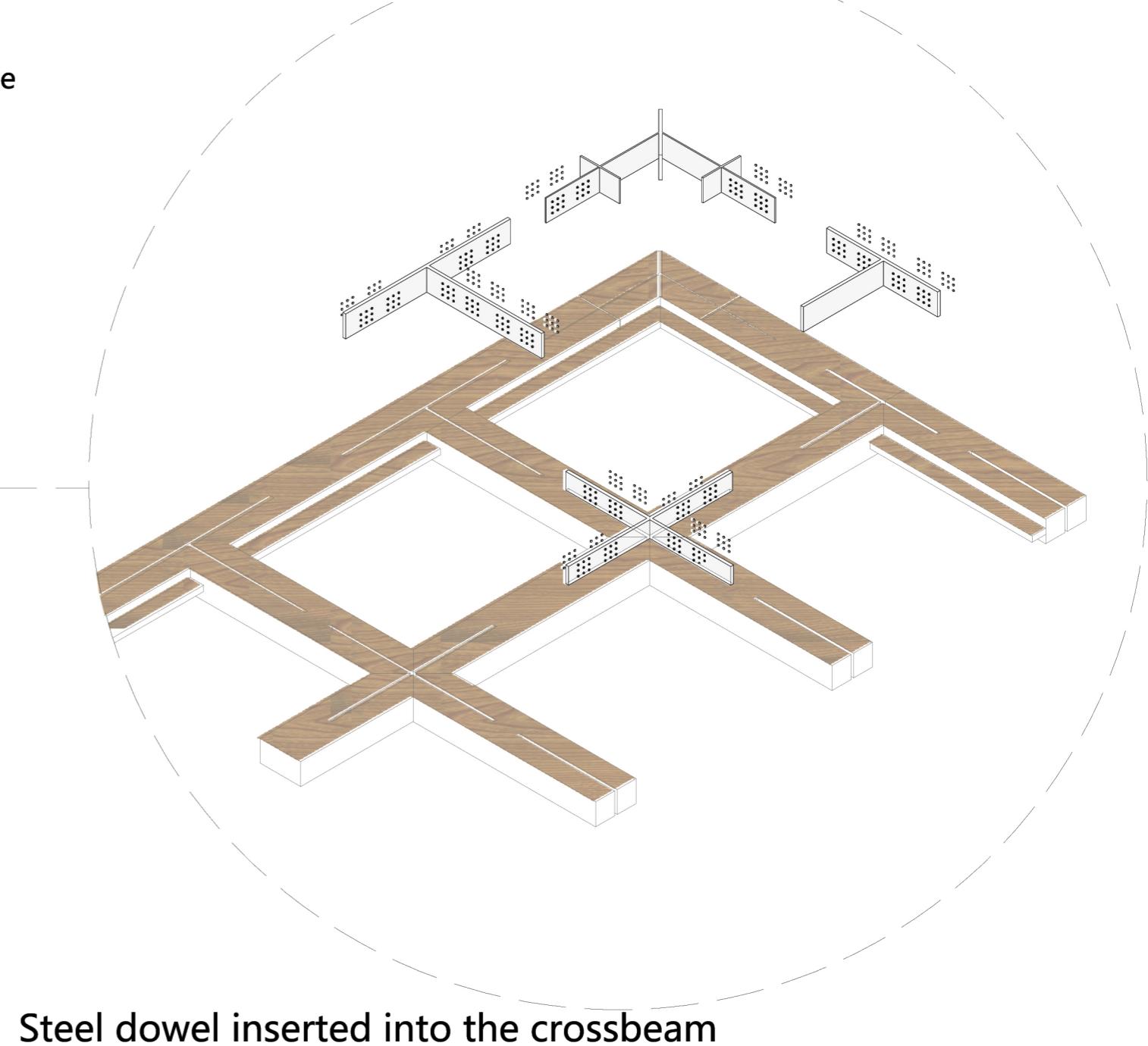
1. Concret strip Foundation and concret wall was placed in 1.5 meters below the ground level.

2. Timber column stands on the stiff concrete base to resist the earthquake force

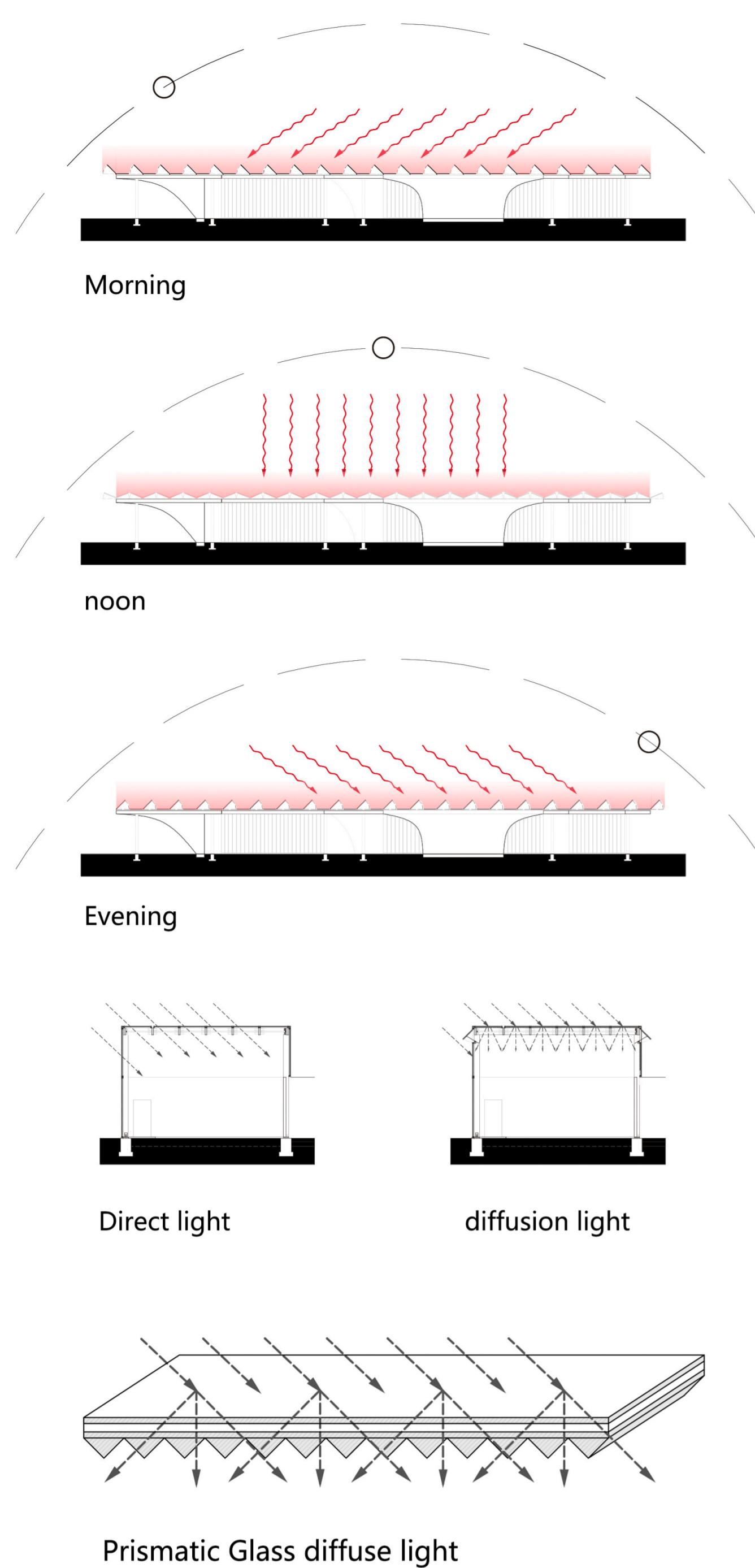
3. timber grid roof is lightweight and flexible



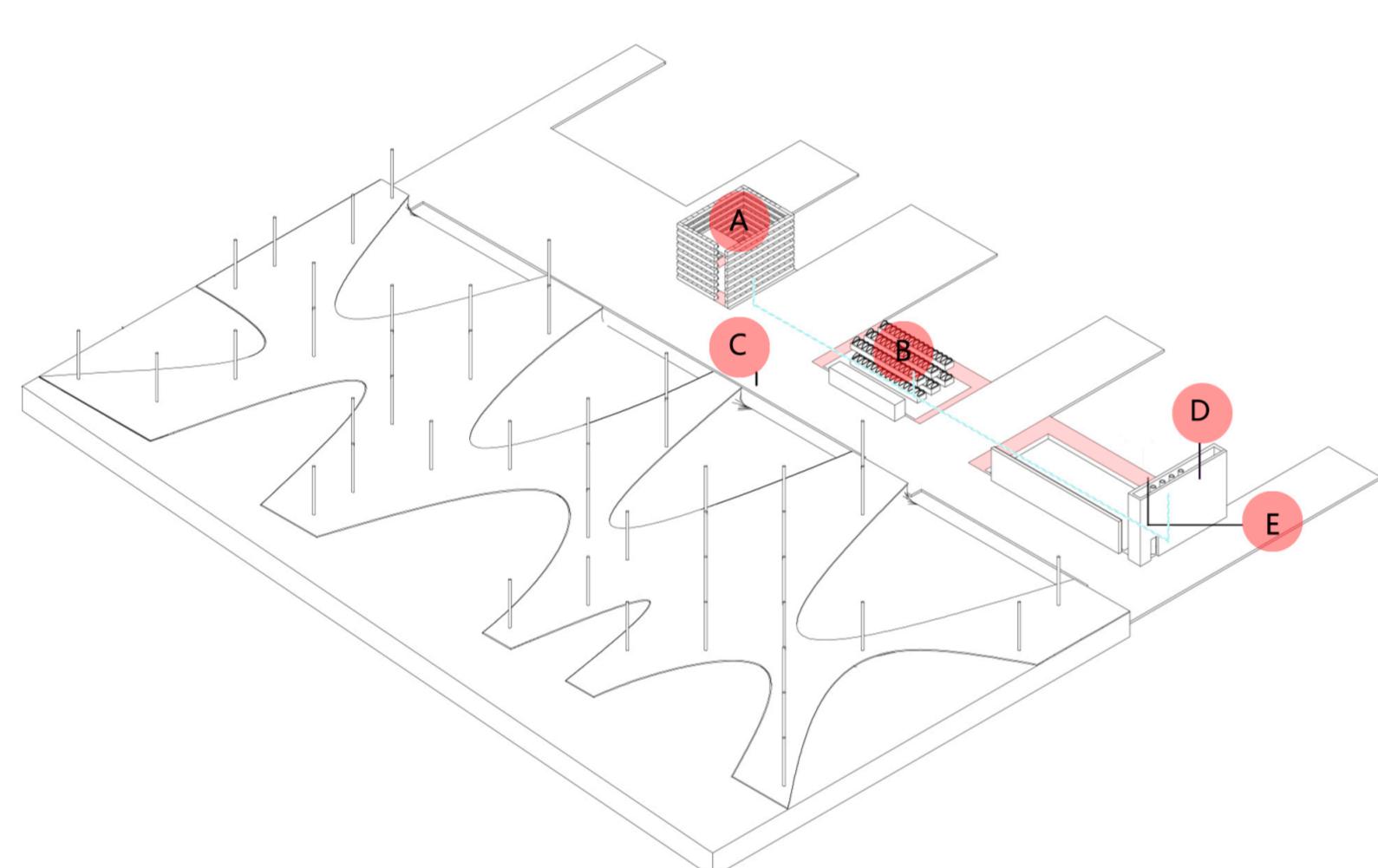
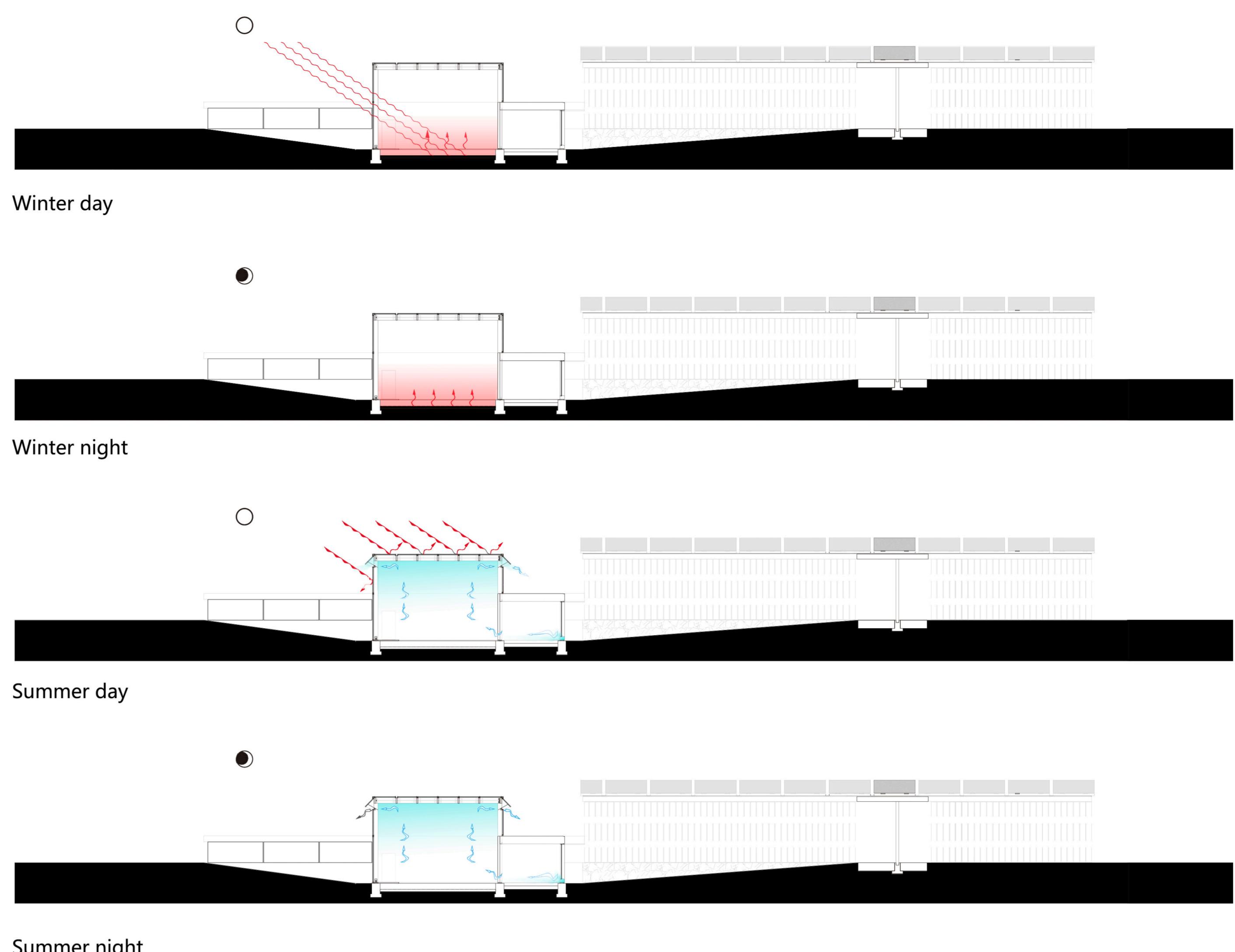
CLT -Cross Laminated Timber wall (Load-bearing Element)



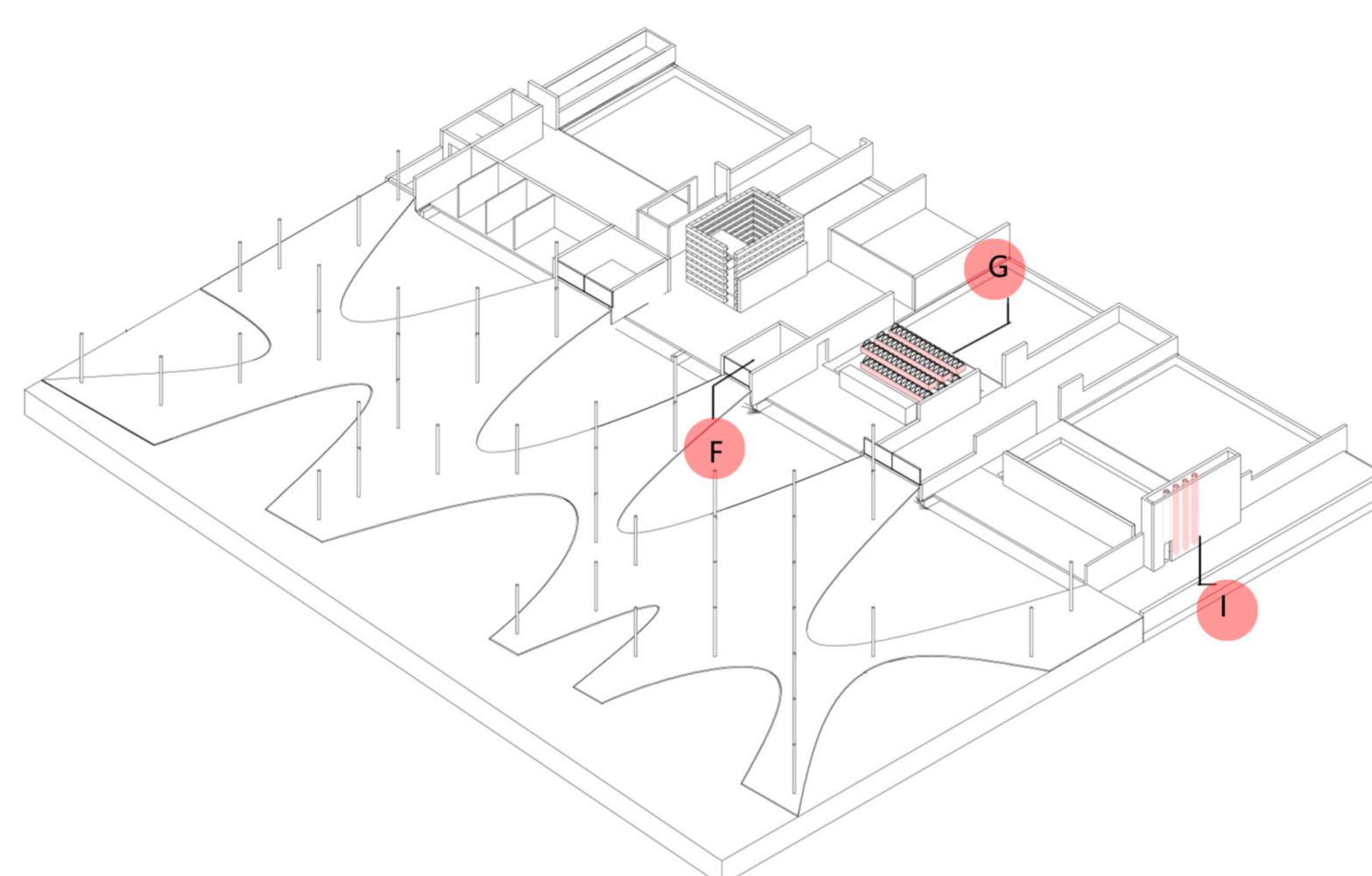
Sun-tracking louvers



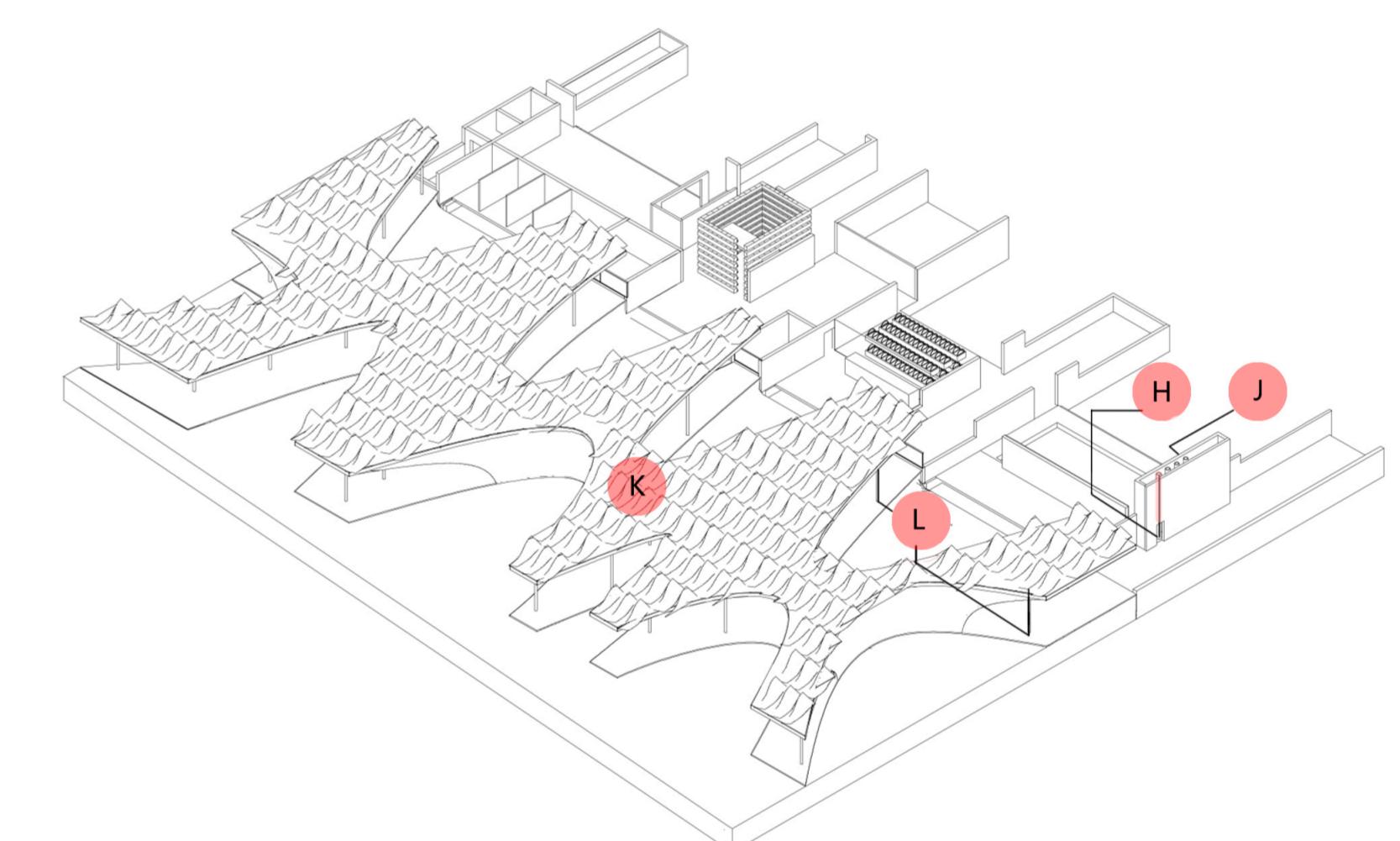
Natural Ventilation



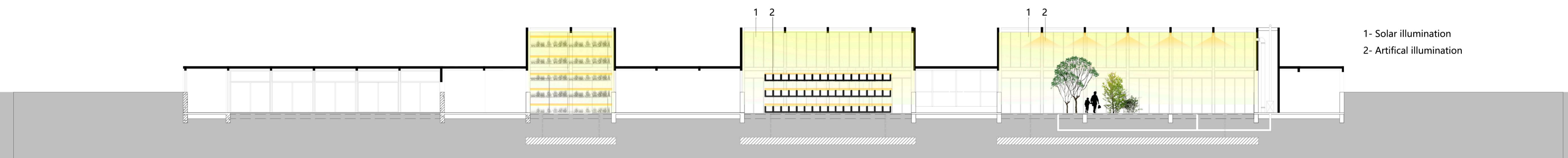
- A SEEDS GERMINATION EXHIBITION
- B POT PLANT EXHIBITION/ NUTRIENT FILM TECHNIQUE
- C RAISED FLOOR FOR CLIMATE SYSTEM
- D WATER SUPPLY PIPE
- E CO₂ SENSOR/ AIR EXHAUST



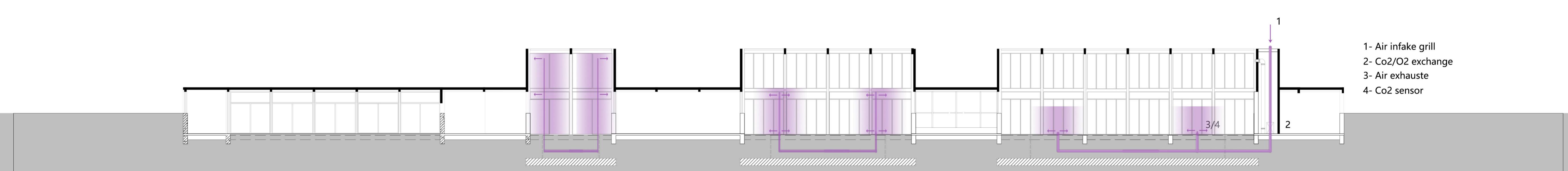
- F NUTRIENT SOLUTION MAKING / STORAGE
- G ARTIFICIAL LED LIGHT AS SUPPLEMENTAL LIGHT
- H UNDERGROUND AIR INTAKE SHAFT
- I MACHINE HEATING/ COOLING PIPE
- J AIR JET NOZZLE



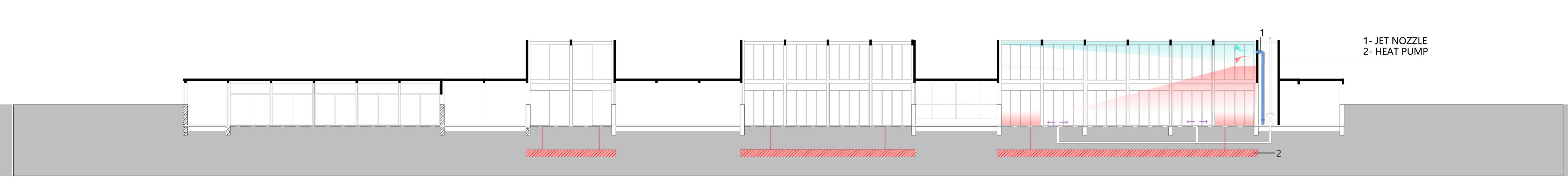
- K SUN-TRACKING LOUVER
- L CIRCUIT DISTRIBUTION



Lighting characteristic for hybrid and artificial production



Areal Environment (CO₂ / O₂ exchange)



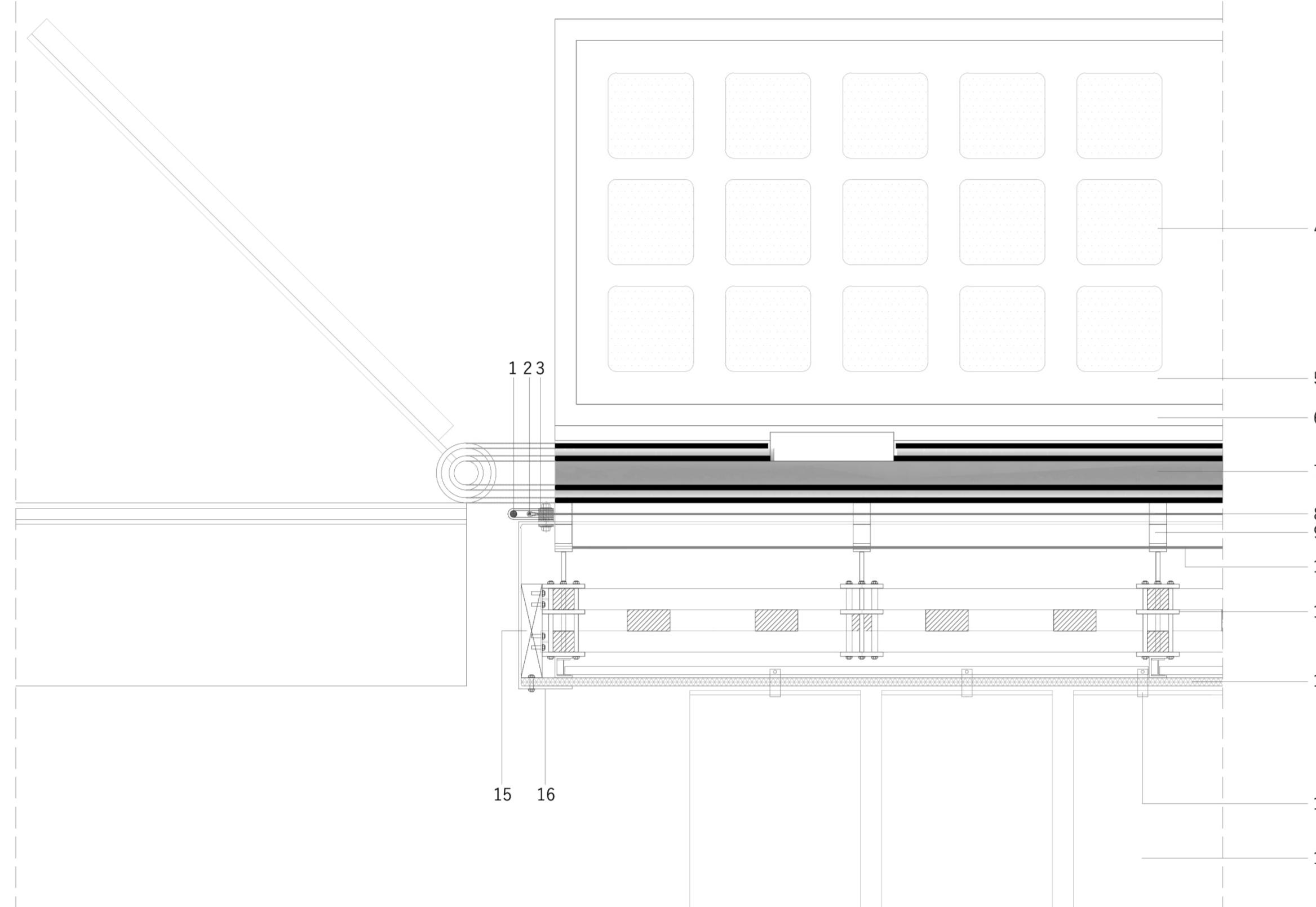
Machine Ventilation/ Heating and Cooling

Solar-Tracking Louver Construction

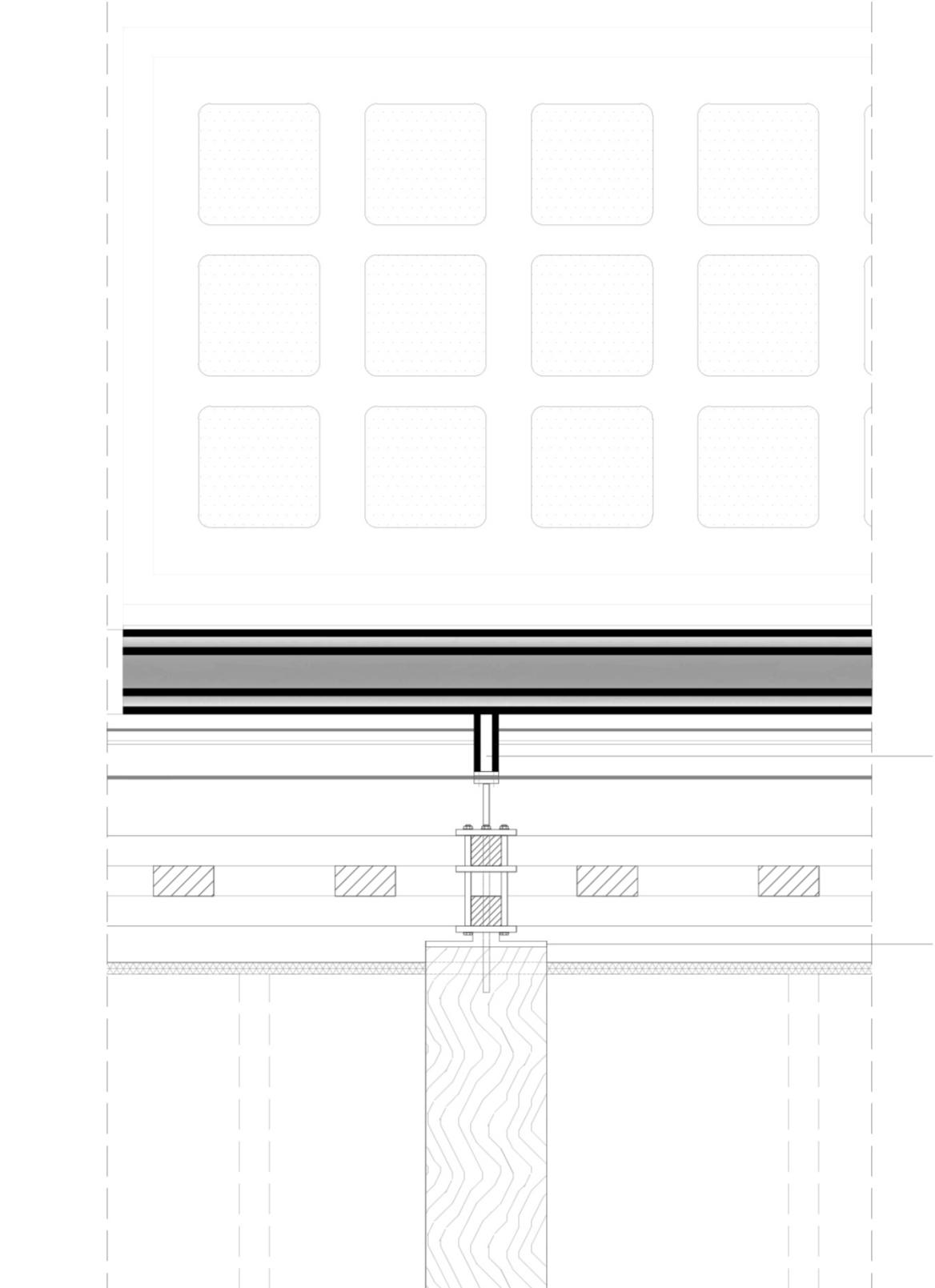
1. metal strip, edge cable
 2. Keder
 3. Clamping bar
 4. 200um in thickness bulk solar cell, crystalline silicon
 5. 3000/900mm solar-tracking sun-shading louver panels
 6. 40/40/5mm aluminum frame hooking solar-tracking sun-shading louvers
 7. 140/12mm,80/12mm CHS rotating bar of solar-tracking sun-shading louver panels
 8. tensioned PTFE coated glass-fibre cloth.
 9. 40/5mm CHS supporting bar
 10. steel cable connecting timber diagonal grid structure

11. 180mm steel clamp 3 layers timber grid system
 12. 50/50/5mm SHS ceiling hanging frame Glass-fiber fabric, silicon coated ceiling
 13. 1.5mm stainless-steel profile, rotatable connection in center
 14. 3mm transparent PVC membrane
 15. 220/50mm timber Edge-beam
 16. 6mm metal covering plate
 17. upper steel bearing plate

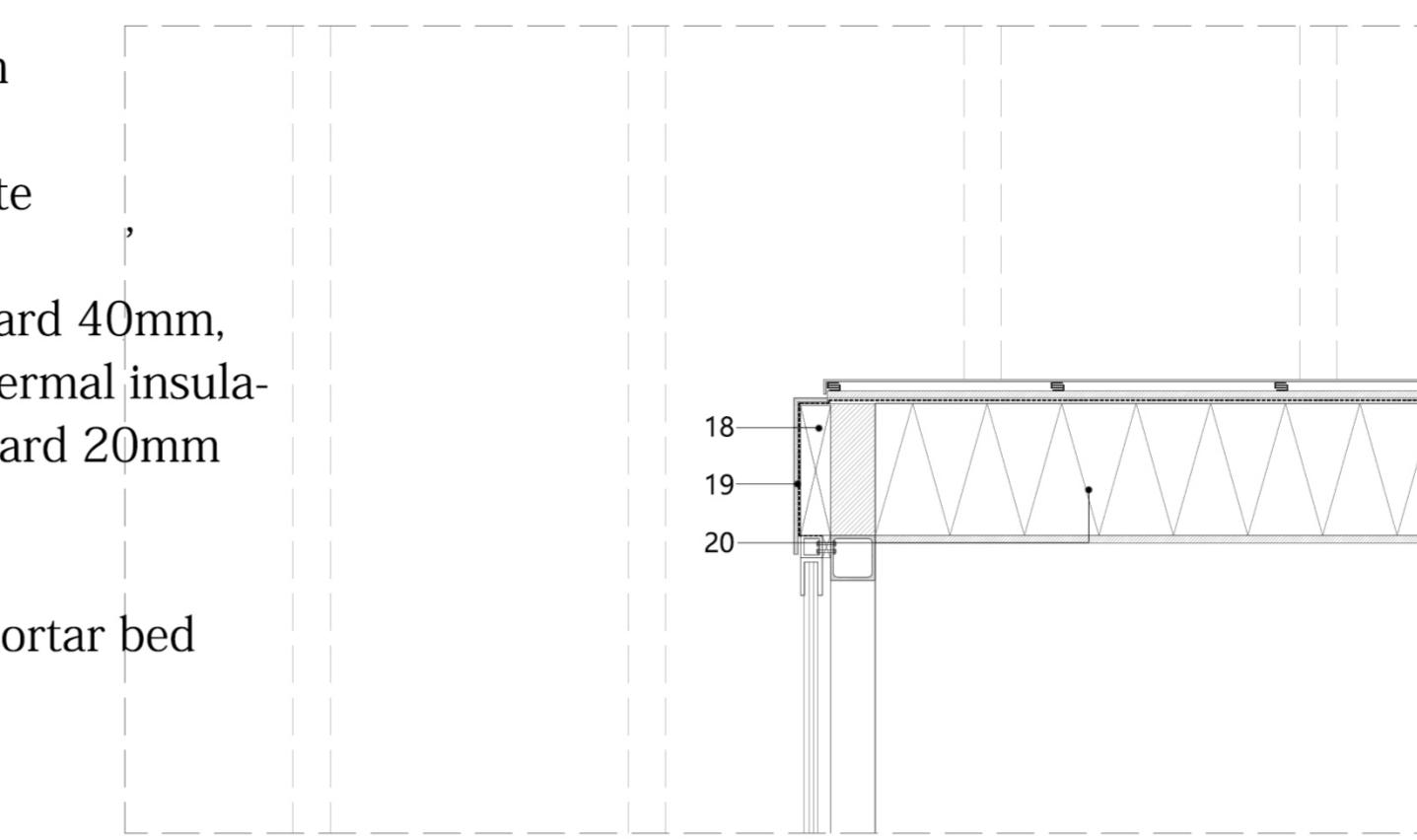
18. timber keel 90x400 mm
 waterproof layer 5mm
 19. aluminum covering plate
 20. thermal insulation layer
 21. plank 40mm, timber board 40mm, wooden keel 60mm, rigid thermal insulation foam 150mm, timber board 20mm
 22. double glazing window
 23. basalt fillings
 24. basalt cobblestones in mortar bed
 25. steel support 250mm



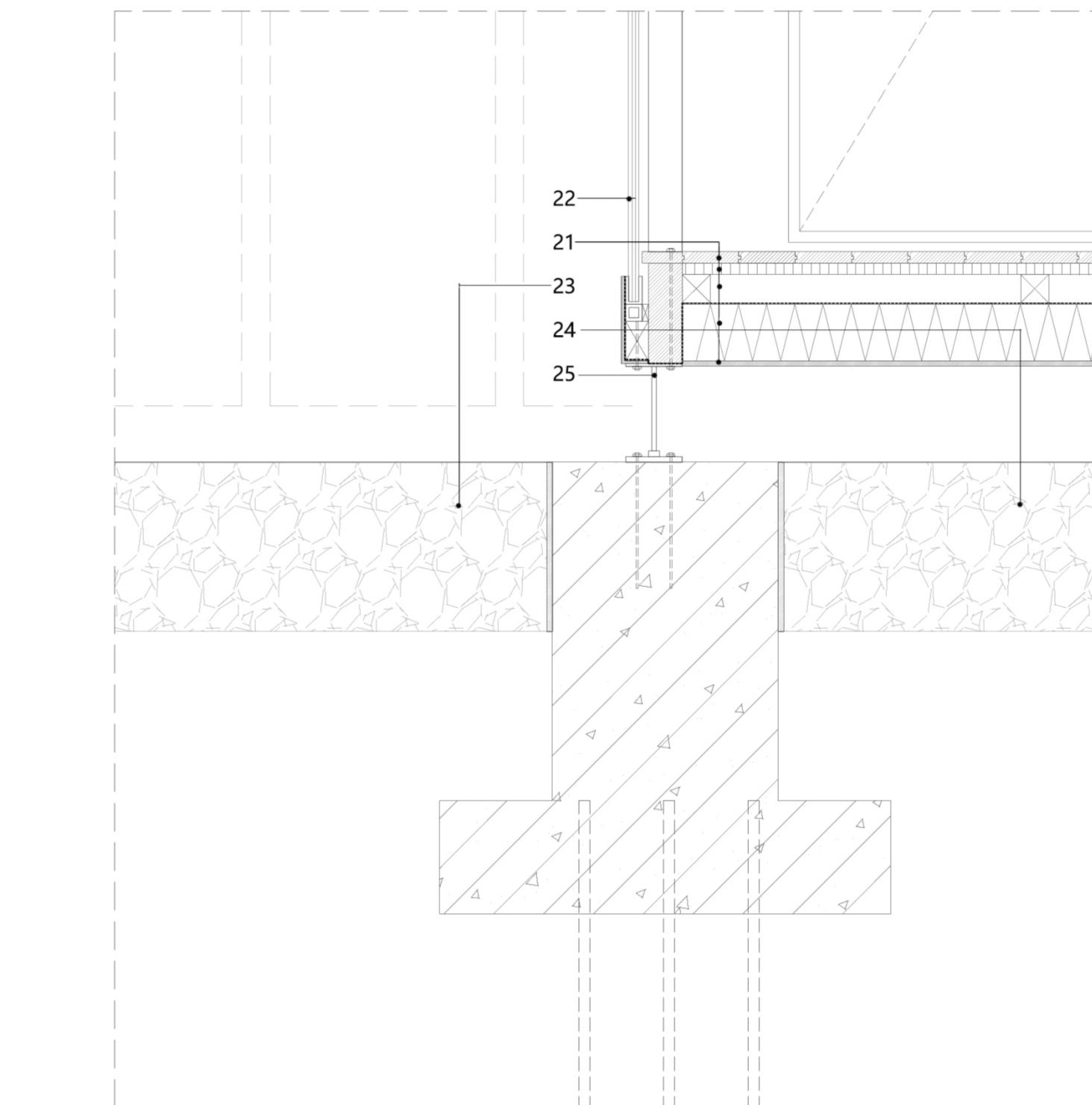
A1 CONSTRUCTION DETAIL 1:10



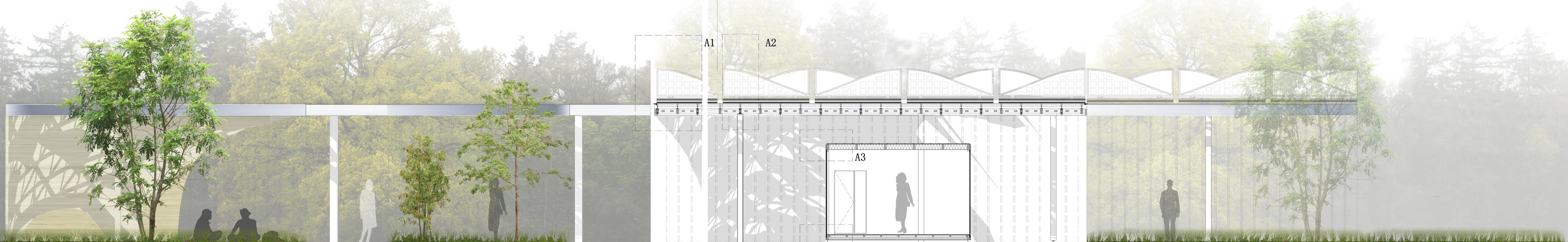
A2 CONSTRUCTION DETAIL 1:10



A4 FOUNDATION CONSTRUCTION DETAIL 1:10



A4 FOUNDATION CONSTRUCTION DETAIL 1:10



South facade/Section 1:50

Technical Drawings

