The contemporary khan

a housing and employment hub in Istanbul

Jorien Cousijn

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This booklet contains the drawings of the final design of the contemporary khan. This was made for of an architectural graduation project at the faculty of Architecture at Delft University of Technology which was done as a final work to obtain the Master of Architecture. The project is part of the studio Design as Politics (2017-2018), within theme of the design studio: Migration - a city of comings and goings.

Jorien Cousijn, November 2018

Products

Plans	1:200
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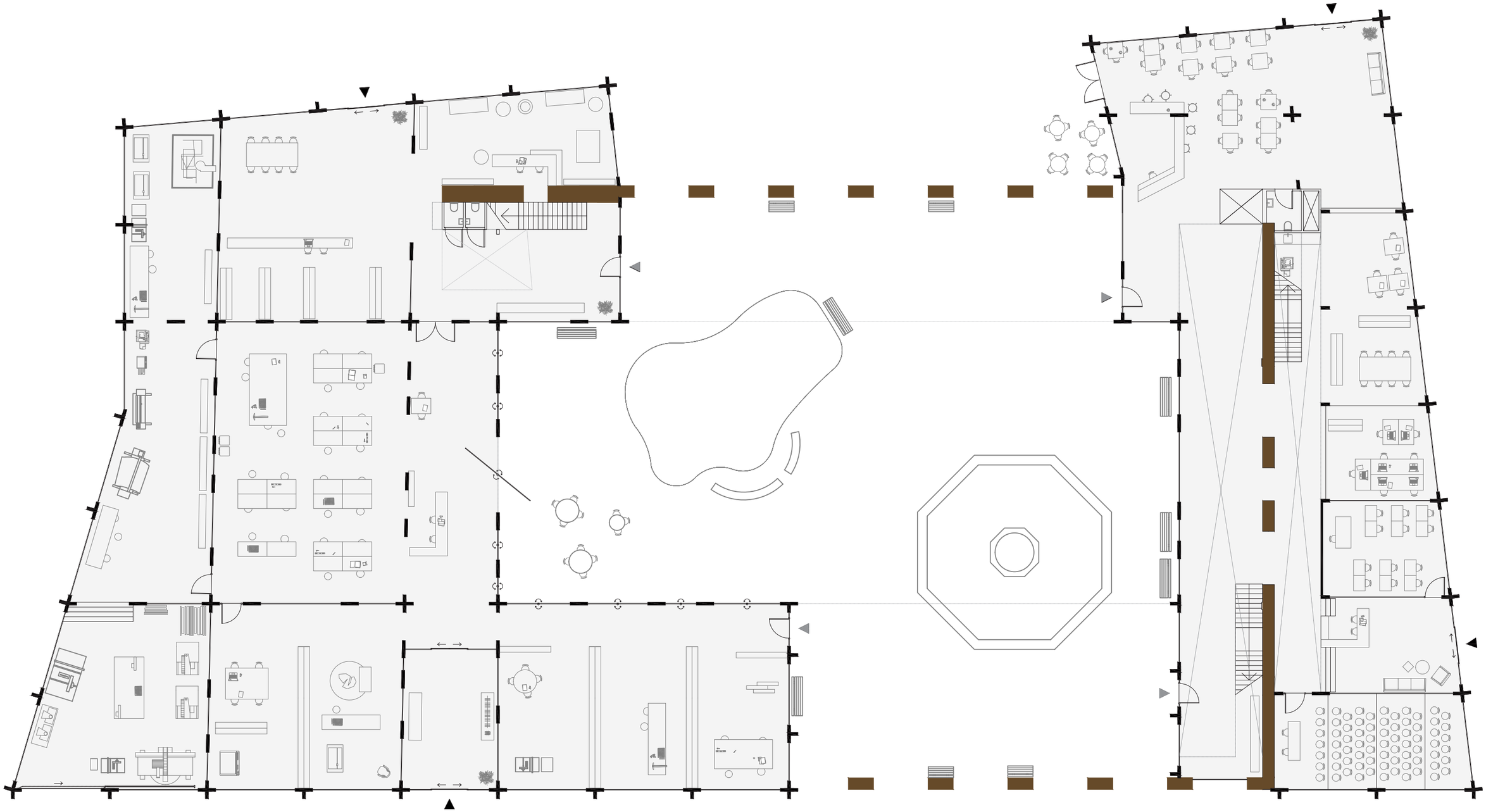
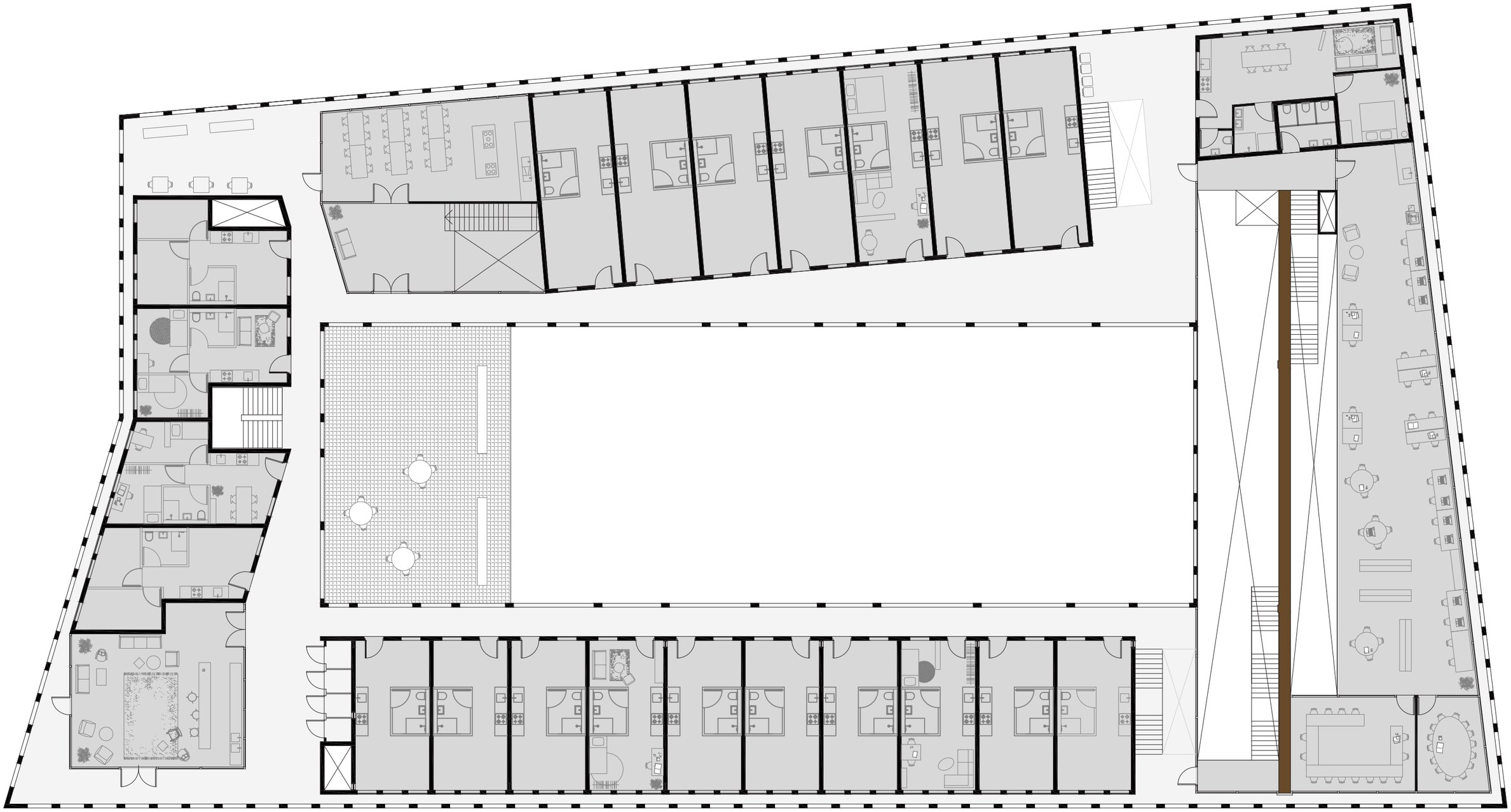
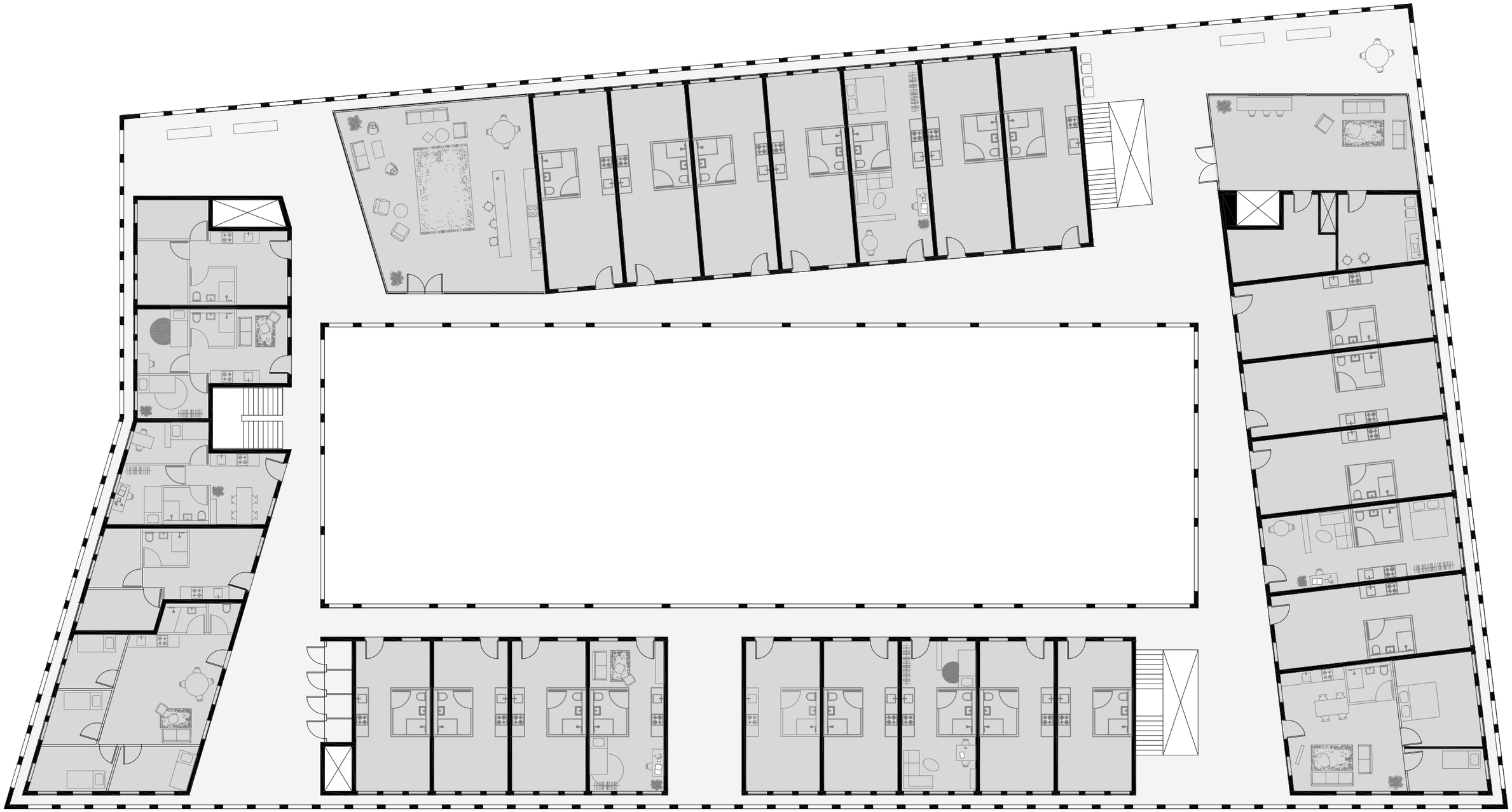


Ground floor
-900 / 0 / 500 mm
1:200

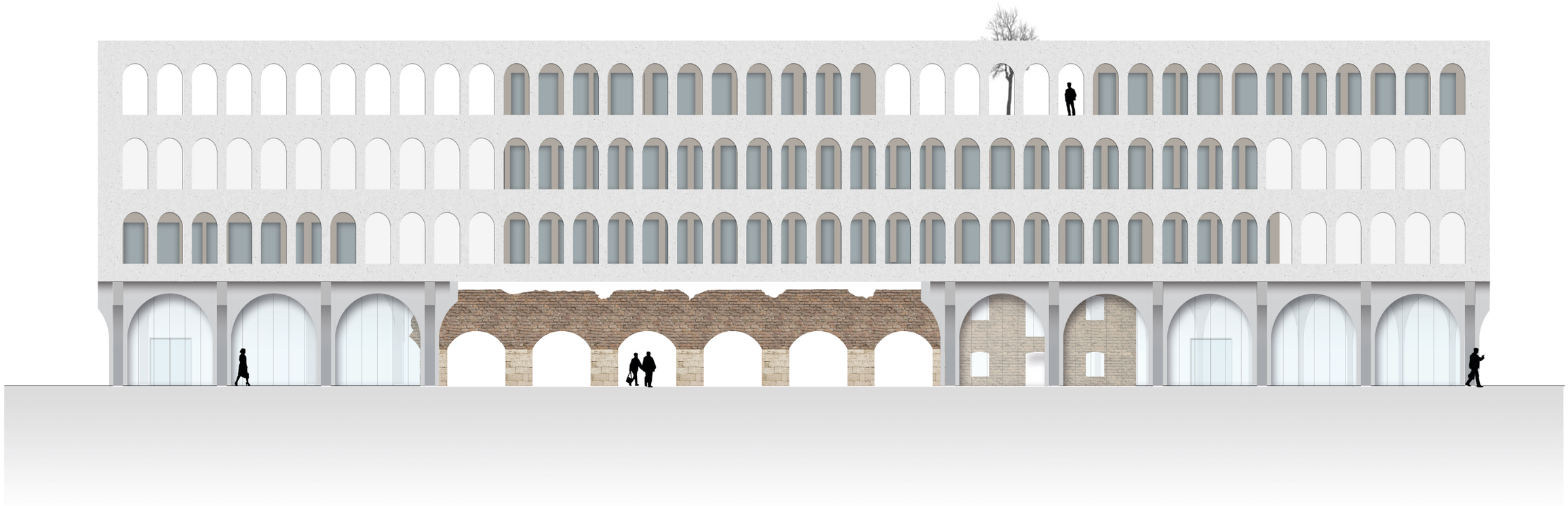


First floor
5700 mm
1:200

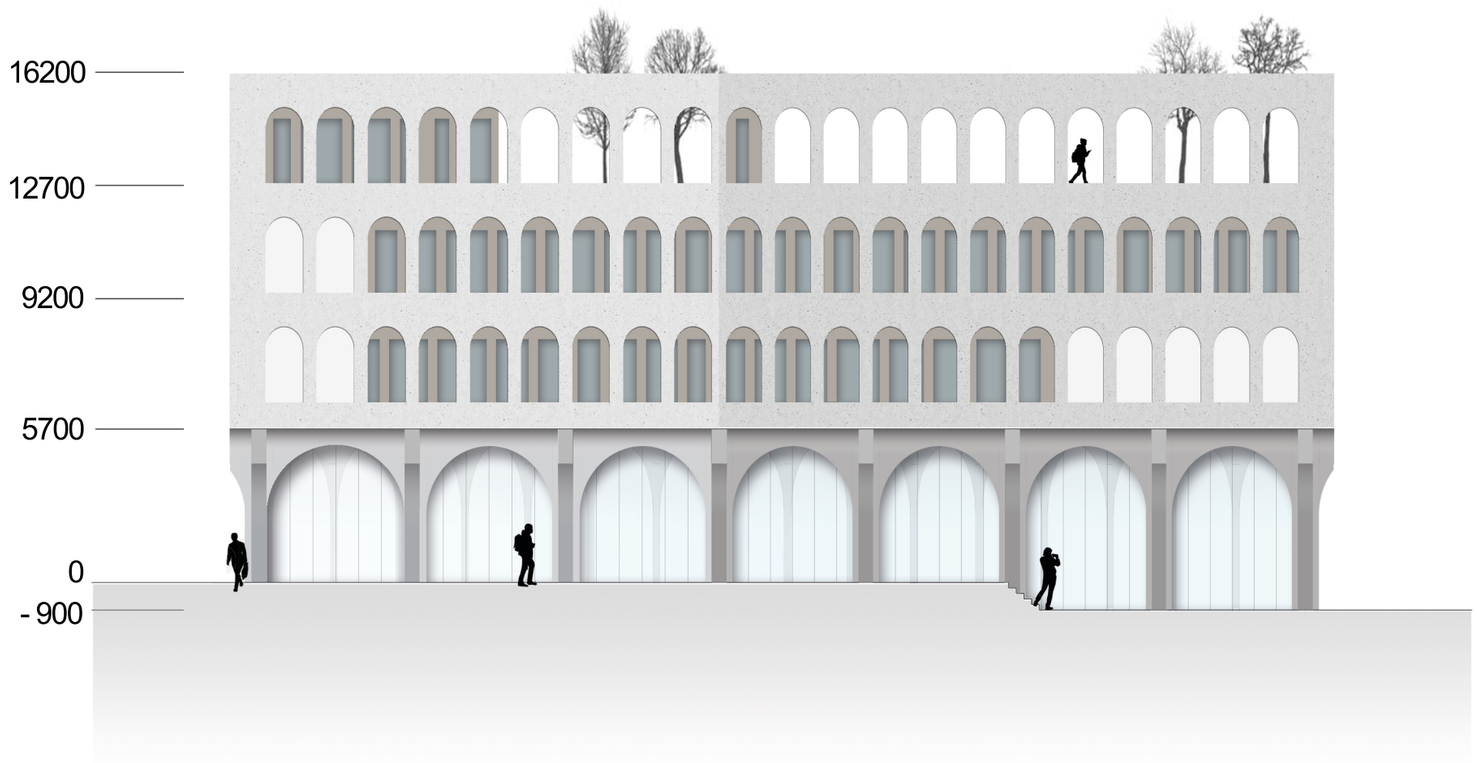


Second floor
9200 mm
1:200

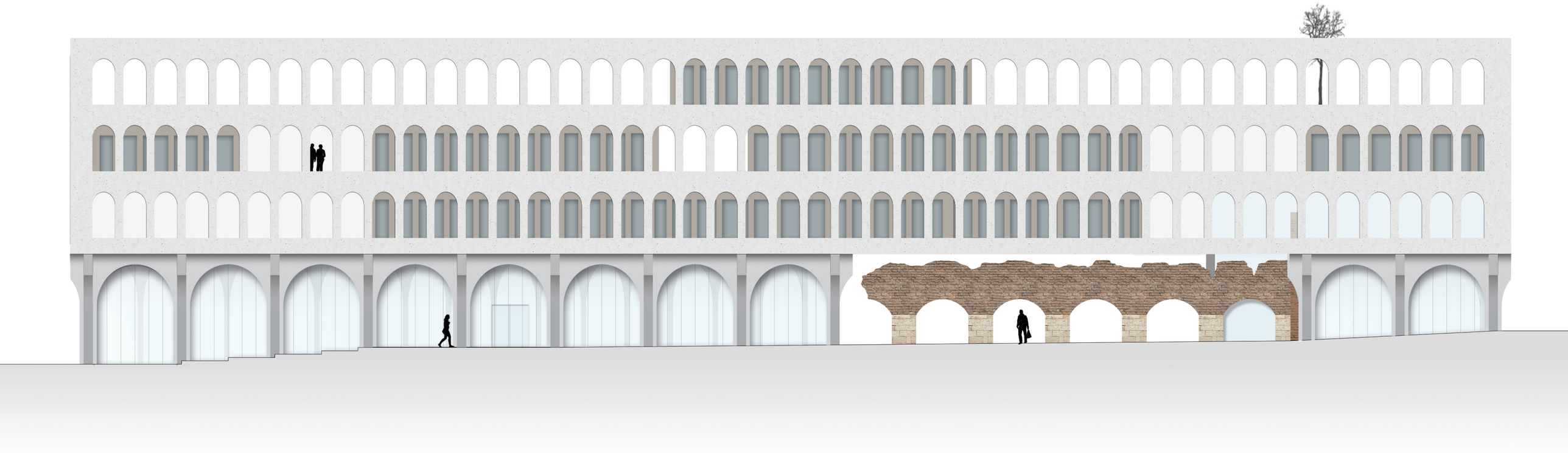
Third floor
12700 mm
1:200



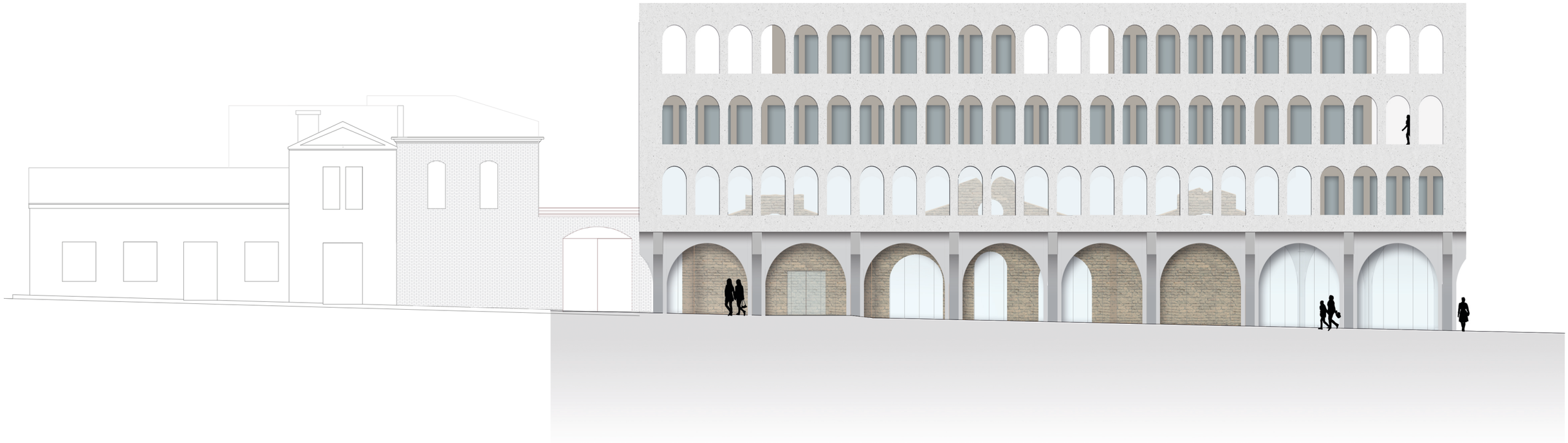
North-East Facade
1:200



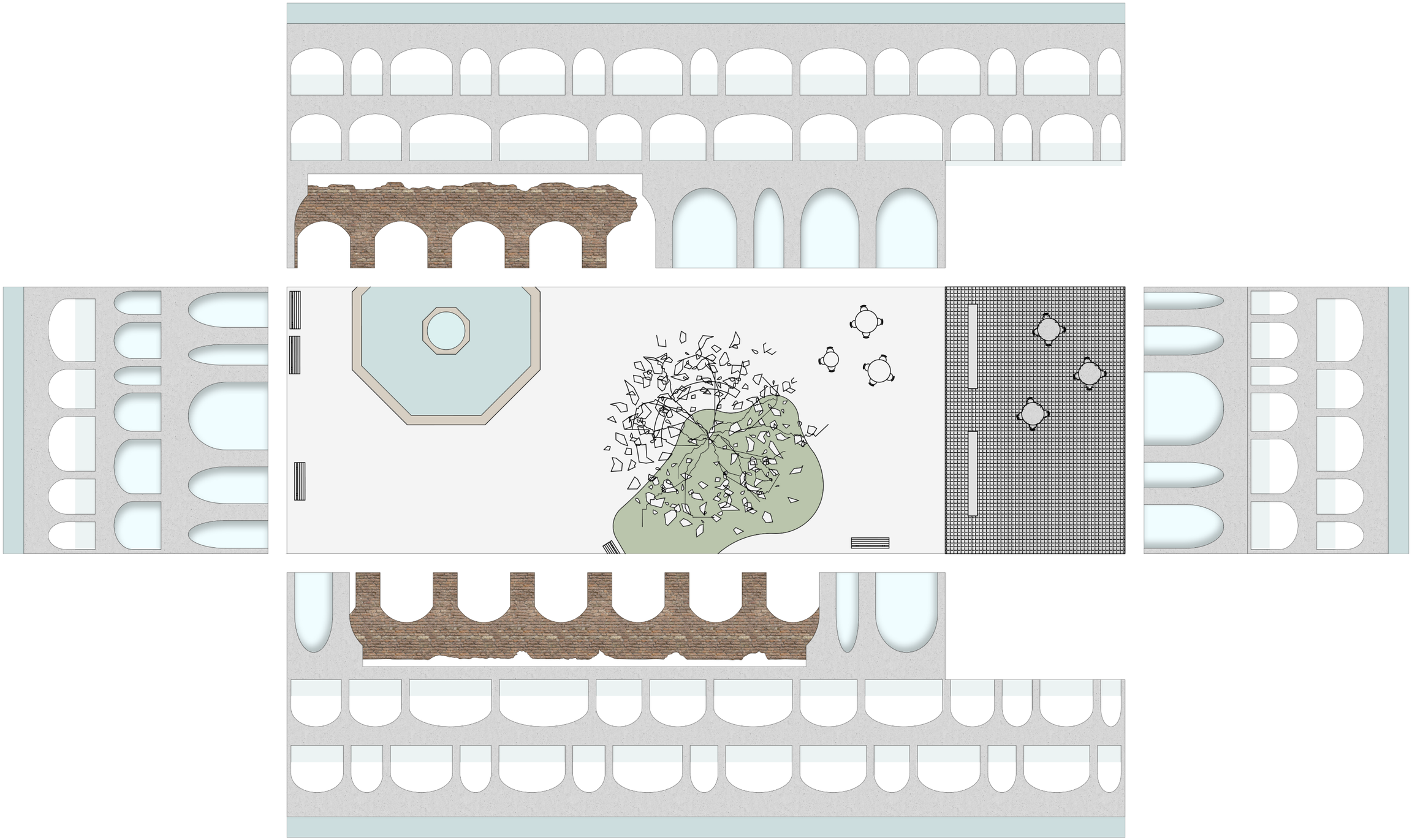
North-West Facade
1:200



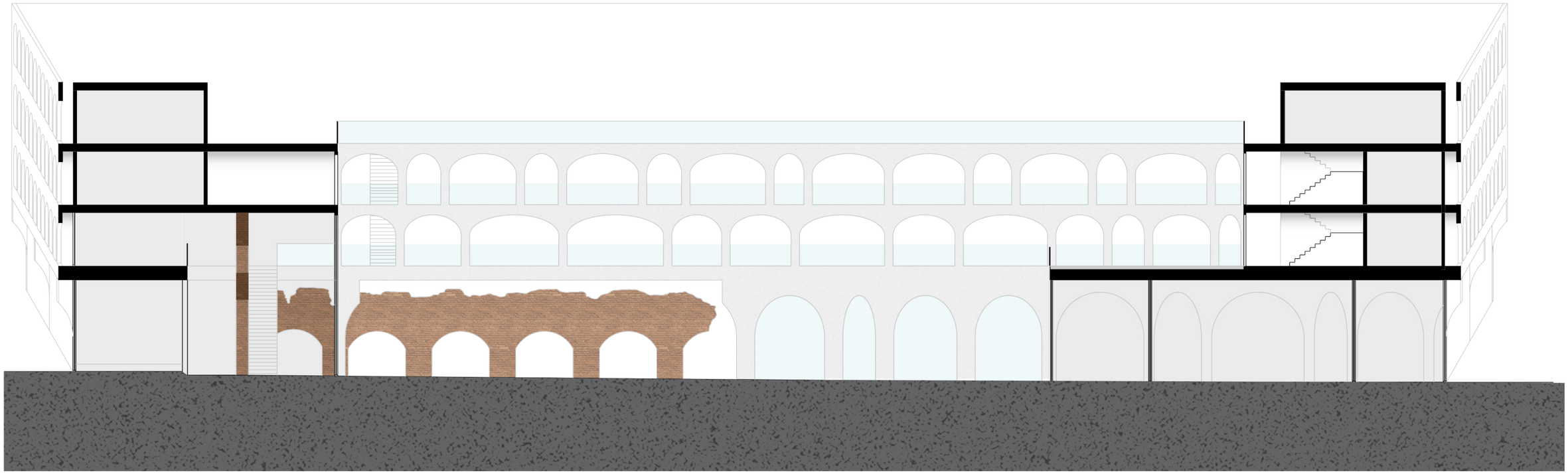
South-West Facade
1:200



South-East Facade
1:200

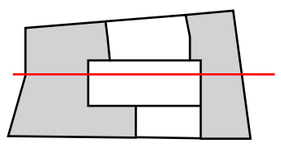


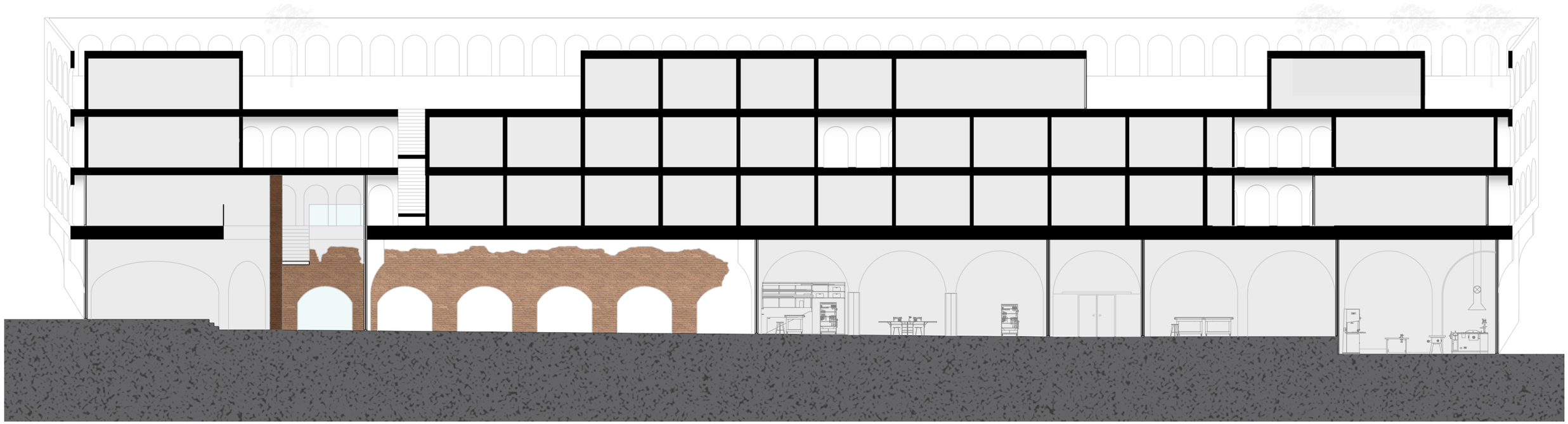
Innercourt Facades
1:200



Section A-A

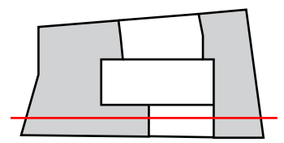
1:200

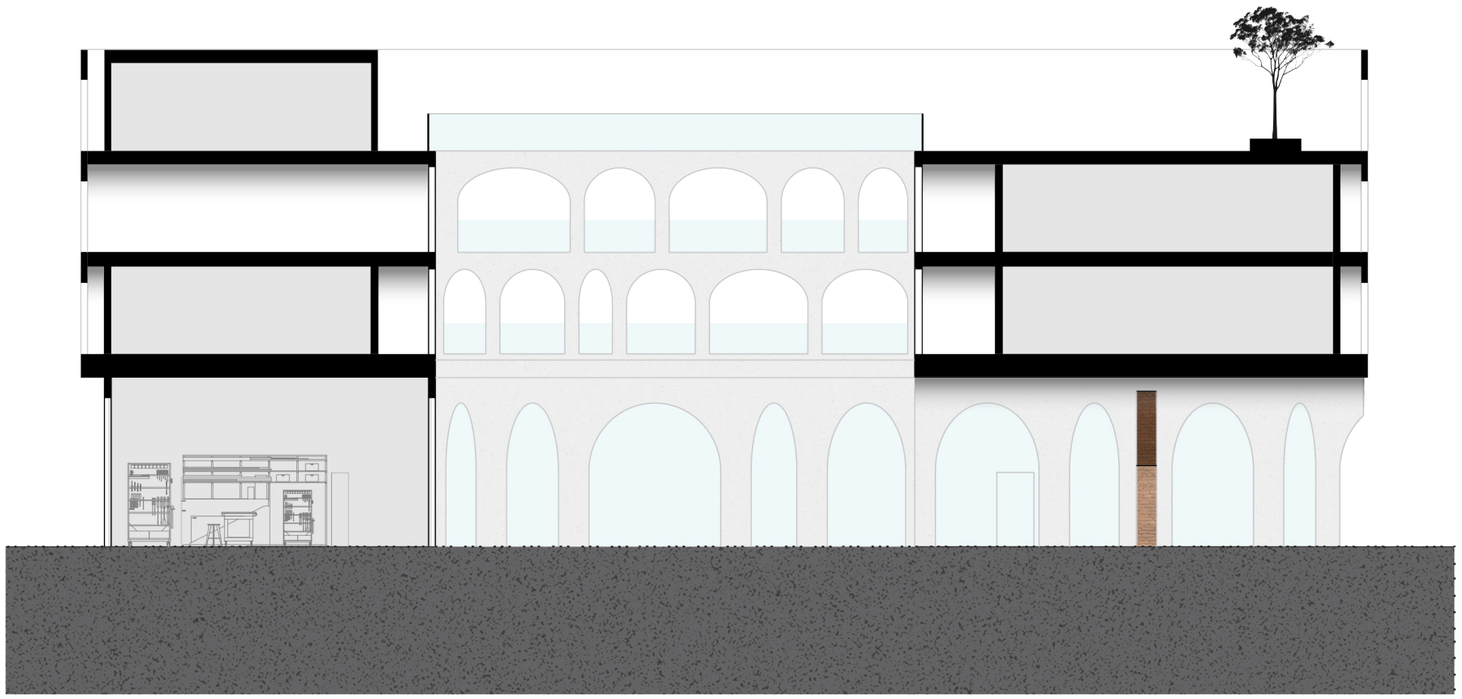




Section B-B

1:200





Section C-C

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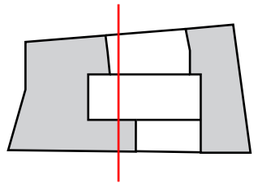
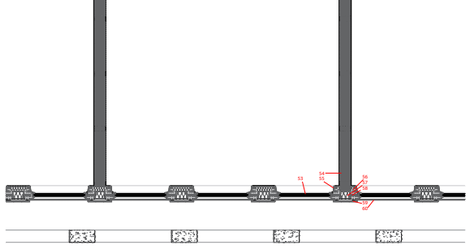
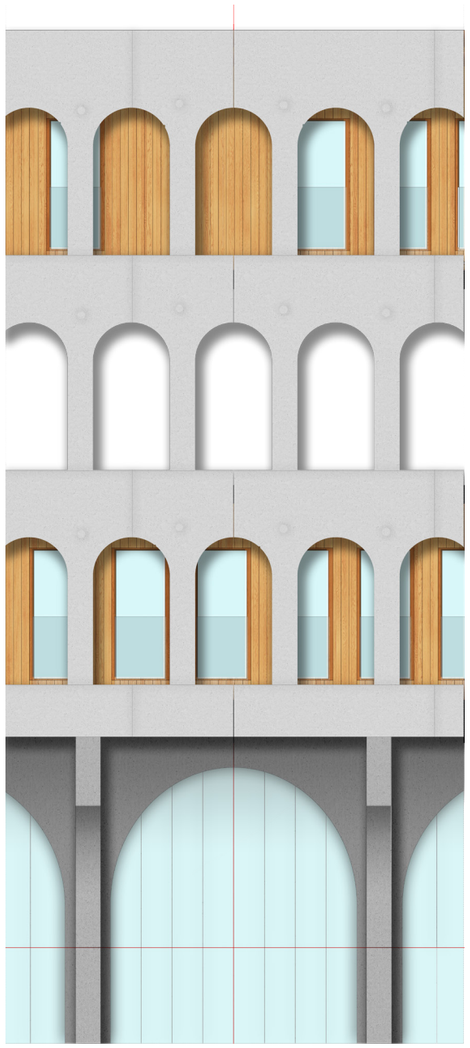
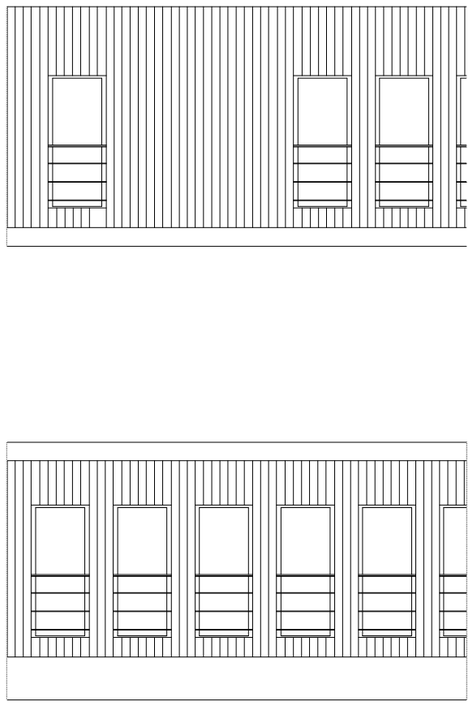
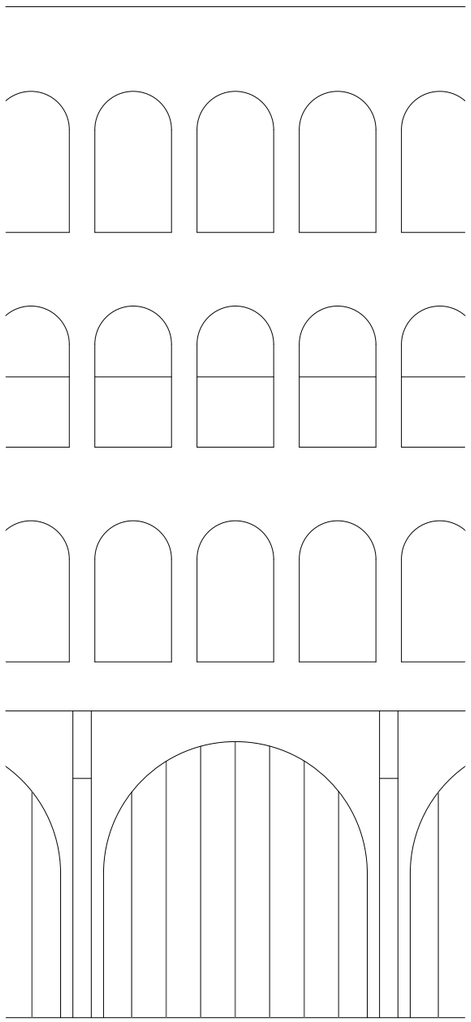


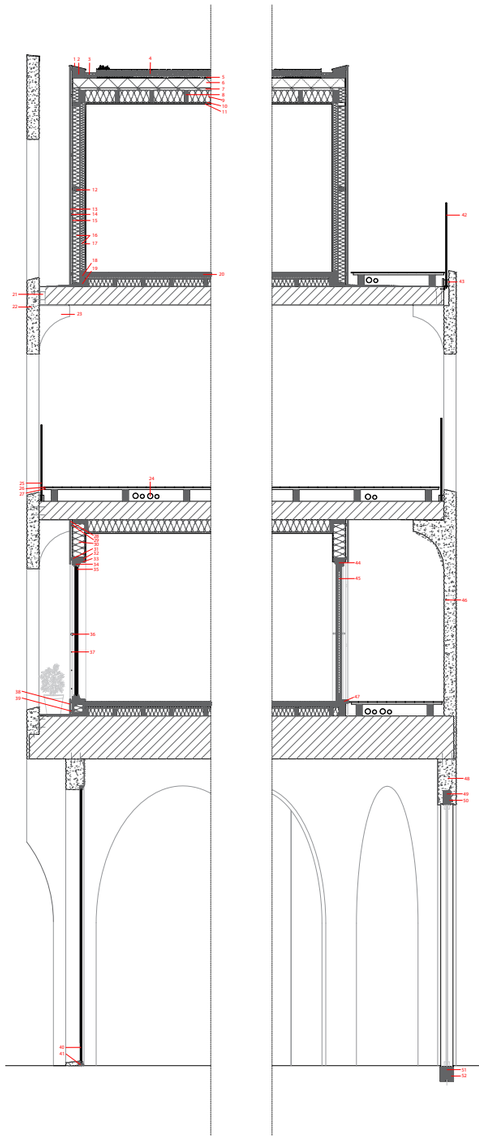
Facade fragments
1:100

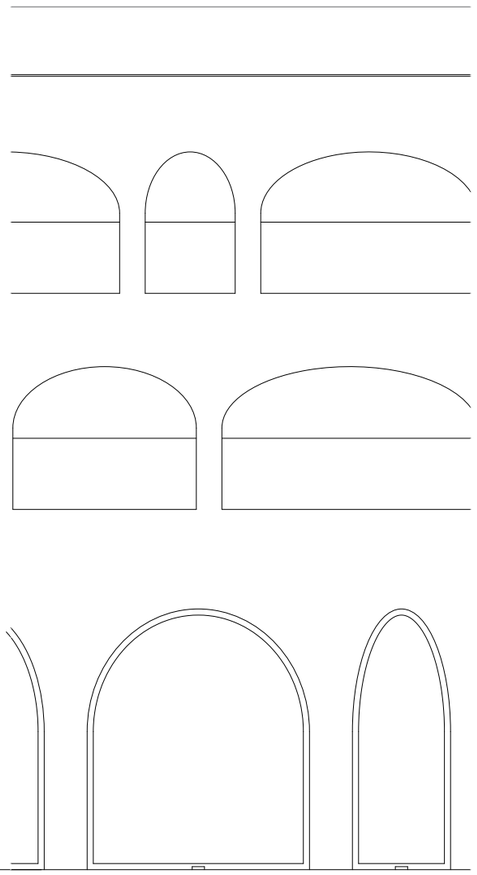












Materials
numbered in red

1. Zinc roof trim with clips
2. Non-structural wooden element for raised roof edge
3. Zinc gutter filled with gravel for rainwater filtration
4. Sedum layer
5. Bituminous sealant (waterproof layer)
6. Rigid foam insulation
7. Wooden slab for support of foam insulation
8. Structural beams (wood) for support of the roof construction
9. Soft insulation - recycled fabrics
10. Vapour barrier
11. Plasterboard
12. Wooden stud frame
13. Vertically rebated wooden planks
14. Wooden battens
15. Waterproof layer
16. Soft insulation - recycled fabrics
17. Vapour barrier
18. Wooden frame
19. Wooden frame
20. Casted concrete floor with heating system
21. Spitter
22. Polished concrete (reinforced) prefab facade elements
23. Prefab concrete (reinforced) console
24. Ventilation shafts and other piping
25. Laminated glass balustrade (polished edge) - grouted
26. Wooden floor boards
27. Wooden sleepers
28. Vertically rebated wooden planks
29. Wooden battens
30. Soft insulation - recycled fabrics
31. Wooden plank
32.Wooden construction frame
33. Wooden mounting frame
34. Wooden window frame
35. HR ++ glazing
36. Wooden handrail
37. Steel cable
38. Vertically rebated wooden planks
39. Wooden battens
40. Safety glazing
41. Wooden window frame
42. Laminated glass balustrade (polished edge) - grouted
43. Steel channel (balustrade)
44. Wooden window frame
45. Wooden door with rigid foam insulation
46. Polished concrete (reinforced) pre-fab column
47. Wooden window frame
48. Polished pre-fab (reinforced) concrete facade element
49. Pivot door steel construction
50. Steel channel
51. Pivot door steel construction
52. Steel channel
53. HR ++ glazing
54. Wooden stud interior wall with acoustic insulation
55. Wooden window frame
56. Metal connection elements
57. Soft insulation - recycled fabrics
58. Wooden battens
59. Vertically rebated wooden planks
60. Steel channel (balustrade)
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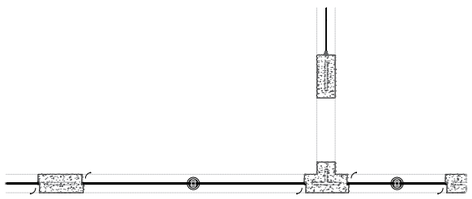

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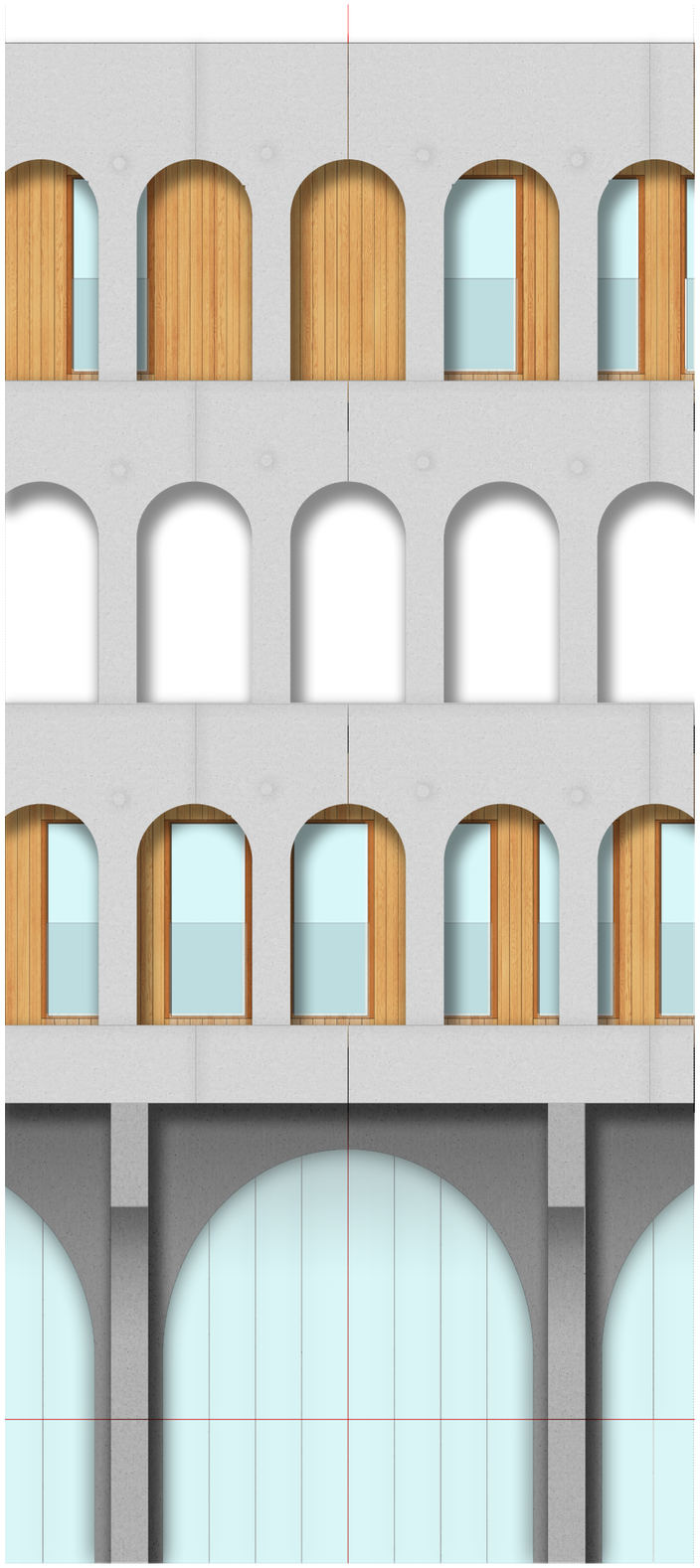

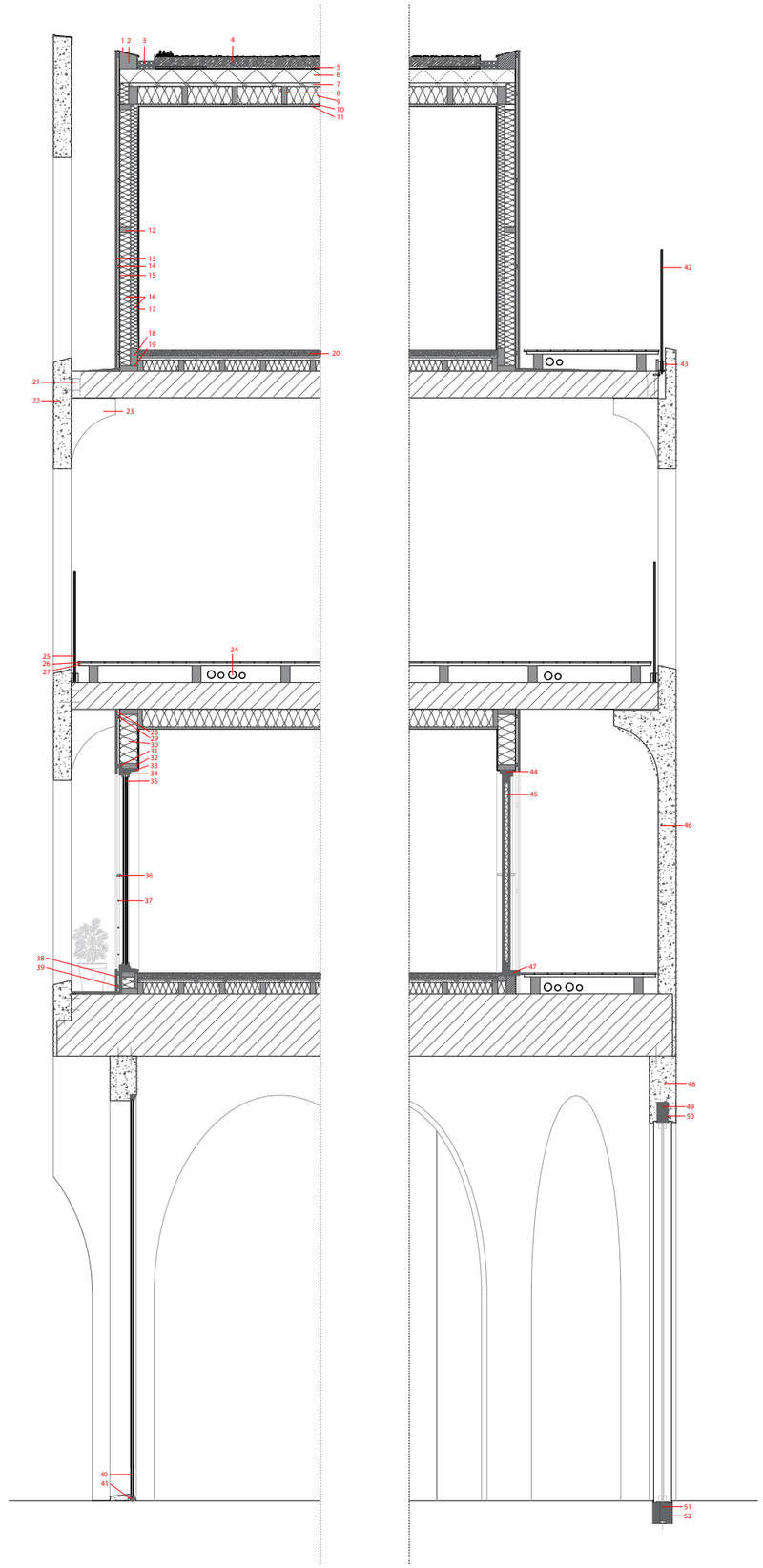

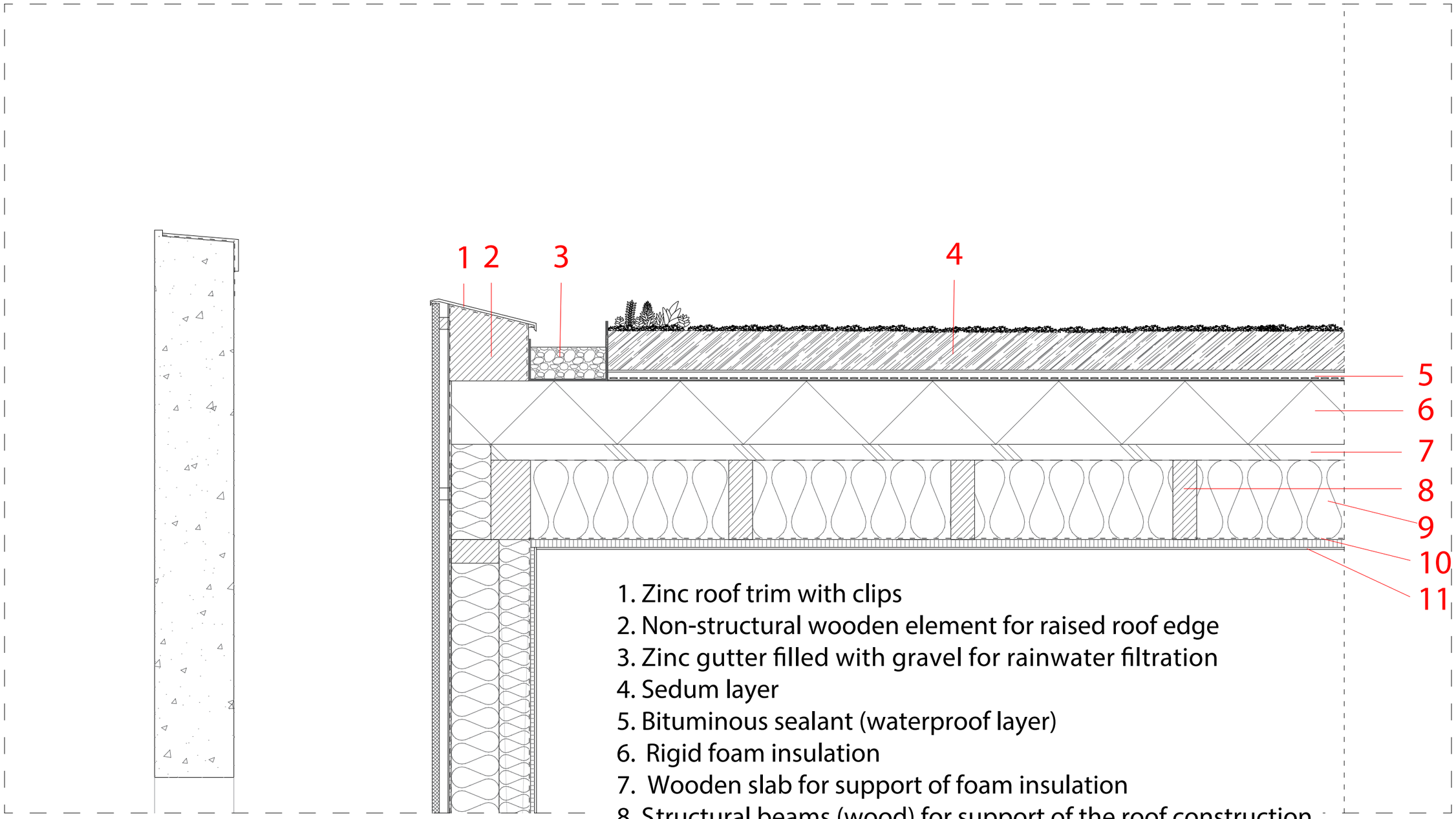

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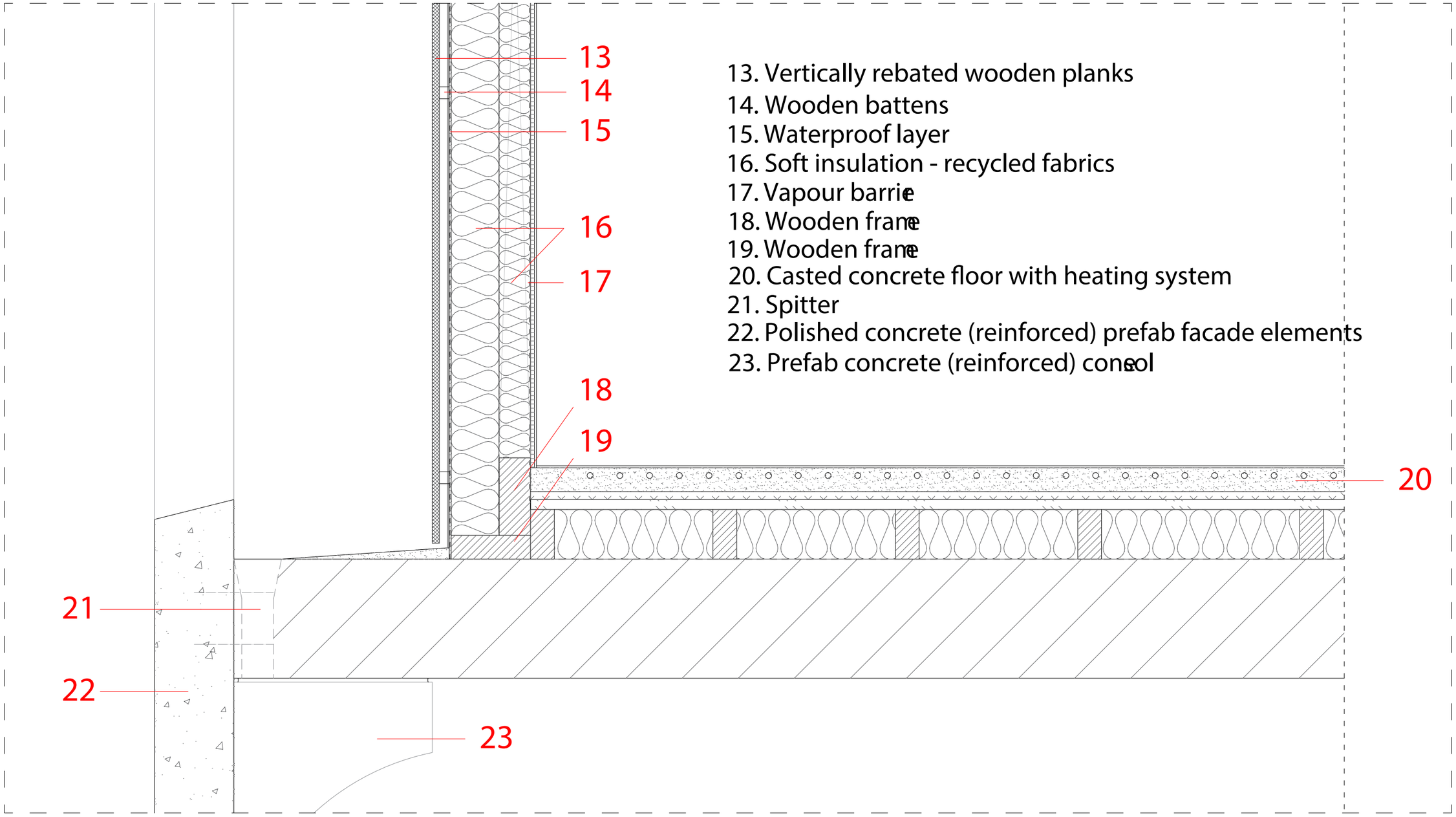

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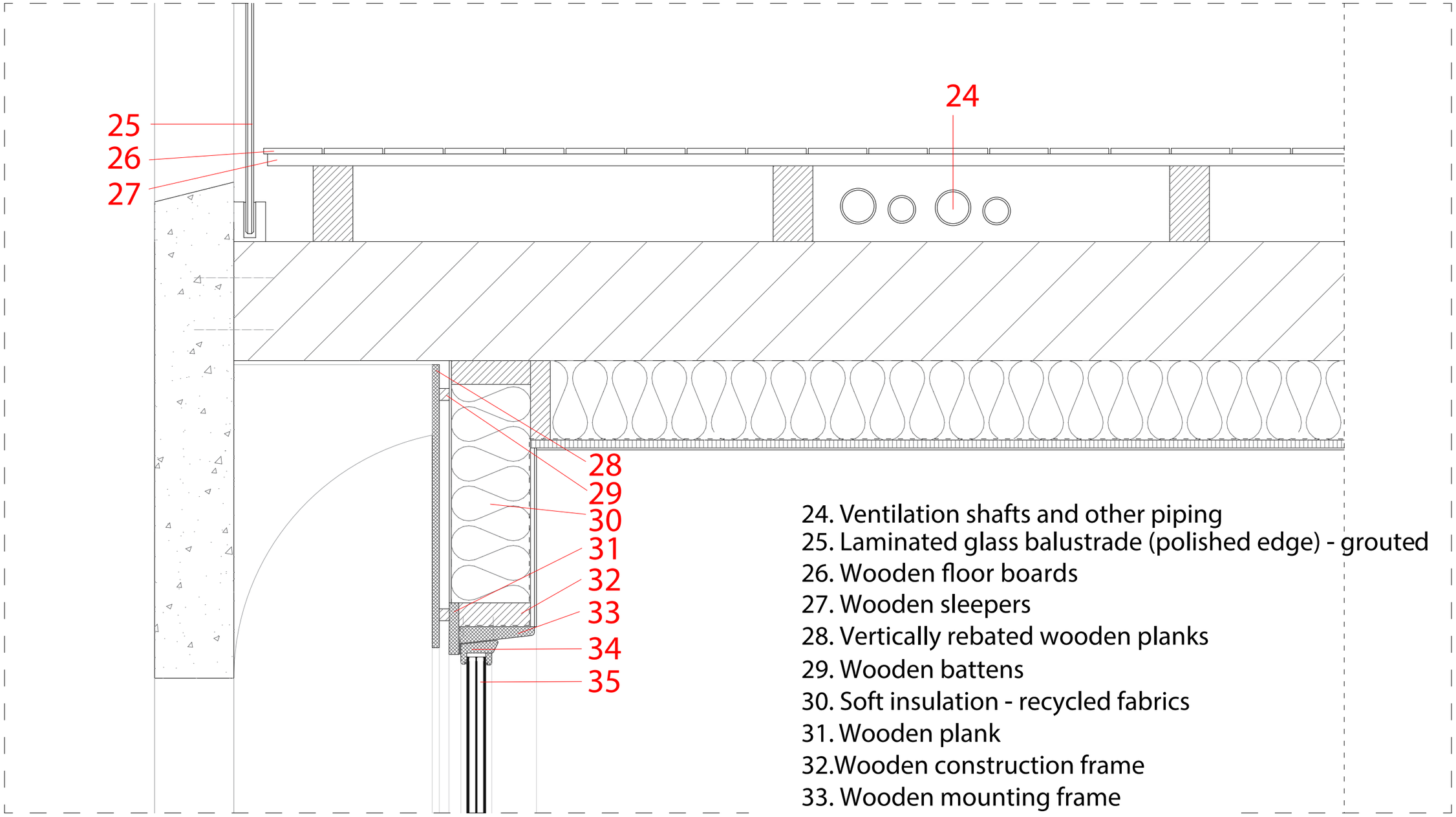

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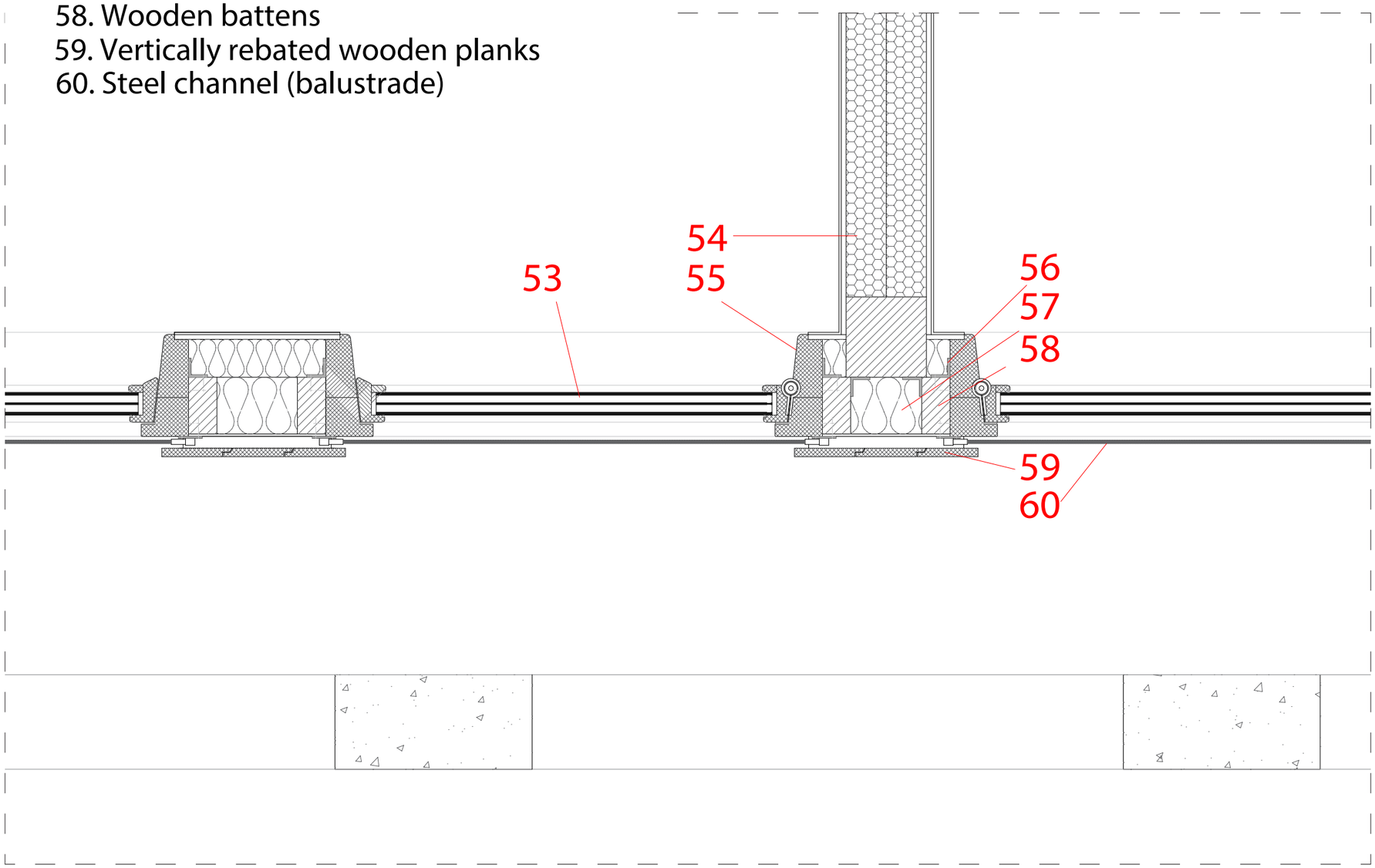
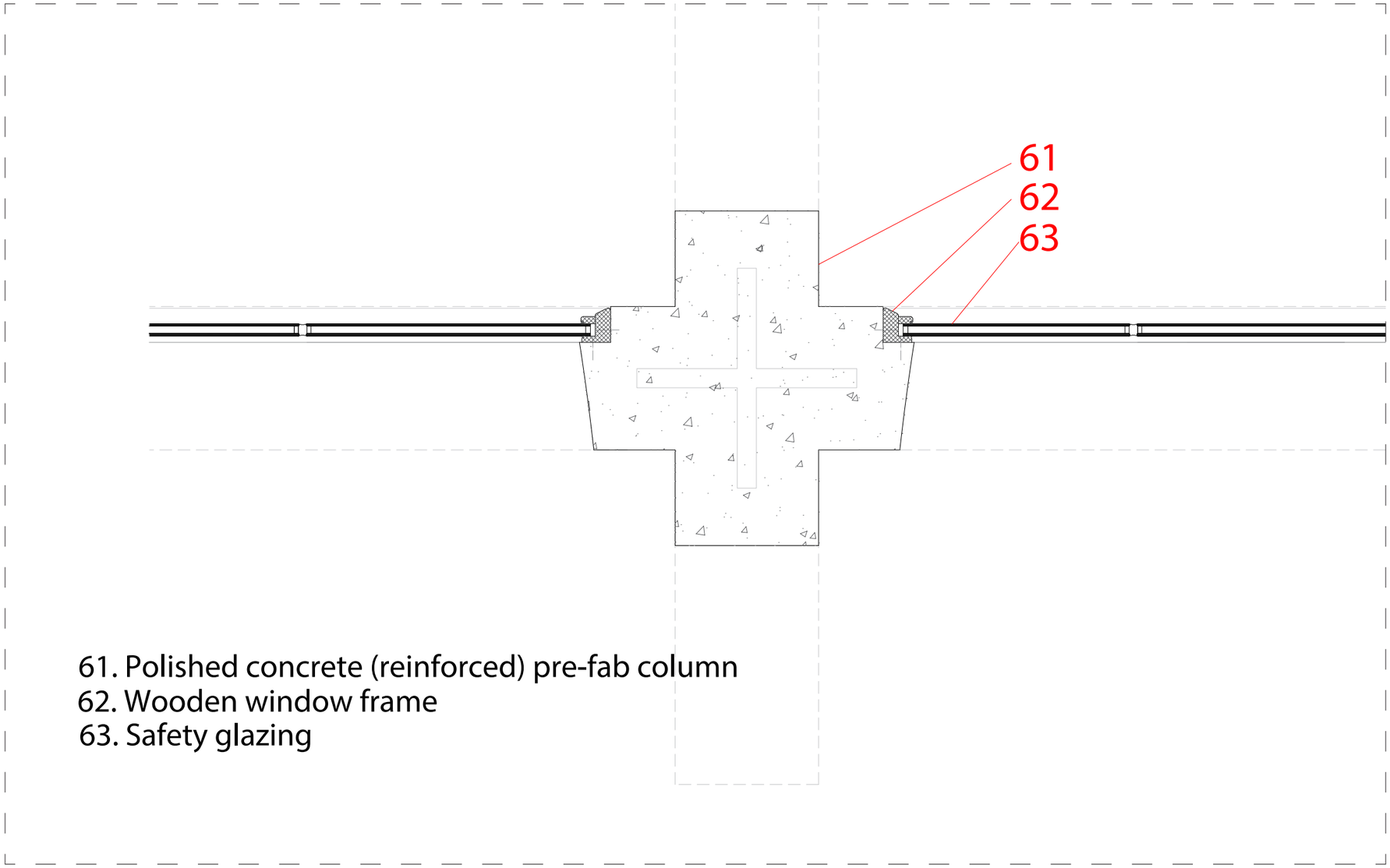
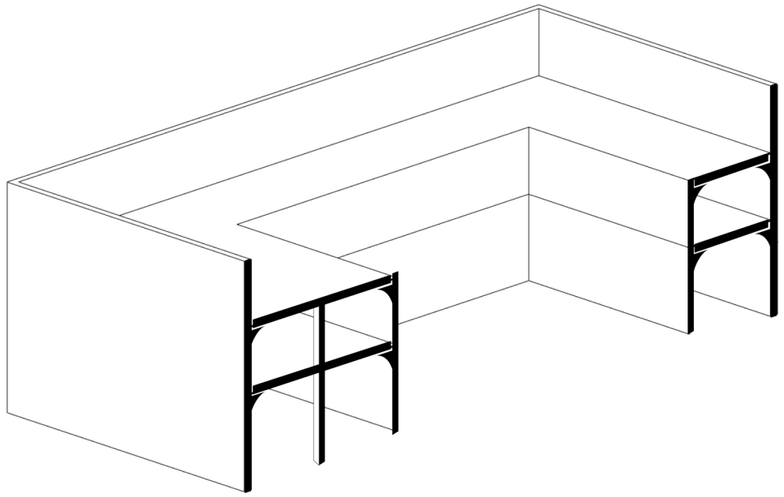
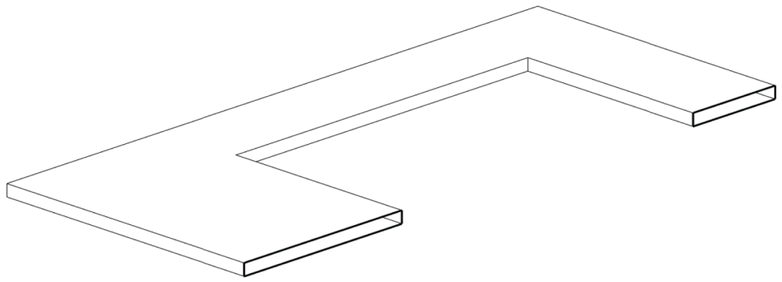
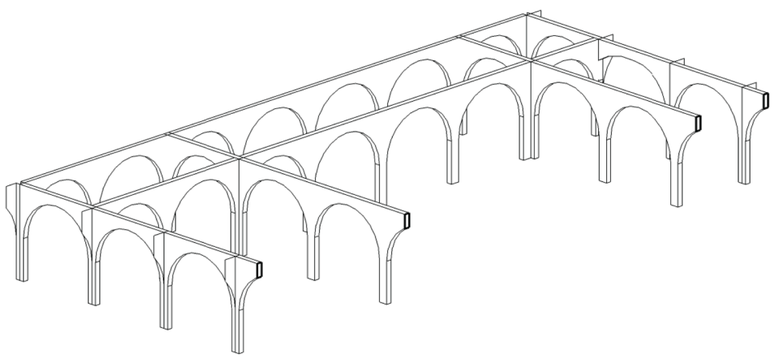


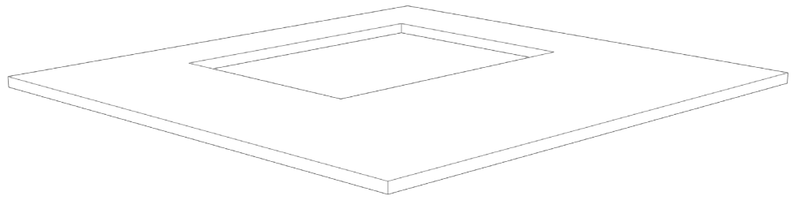


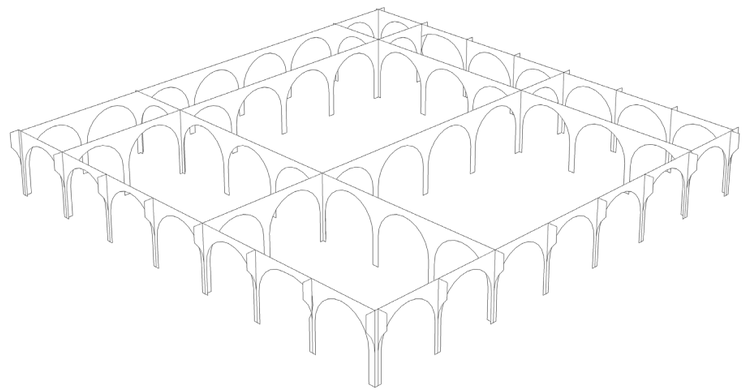
61. Polished concrete (reinforced) pre-fab column
62. Wooden window frame
63. Safety glazing





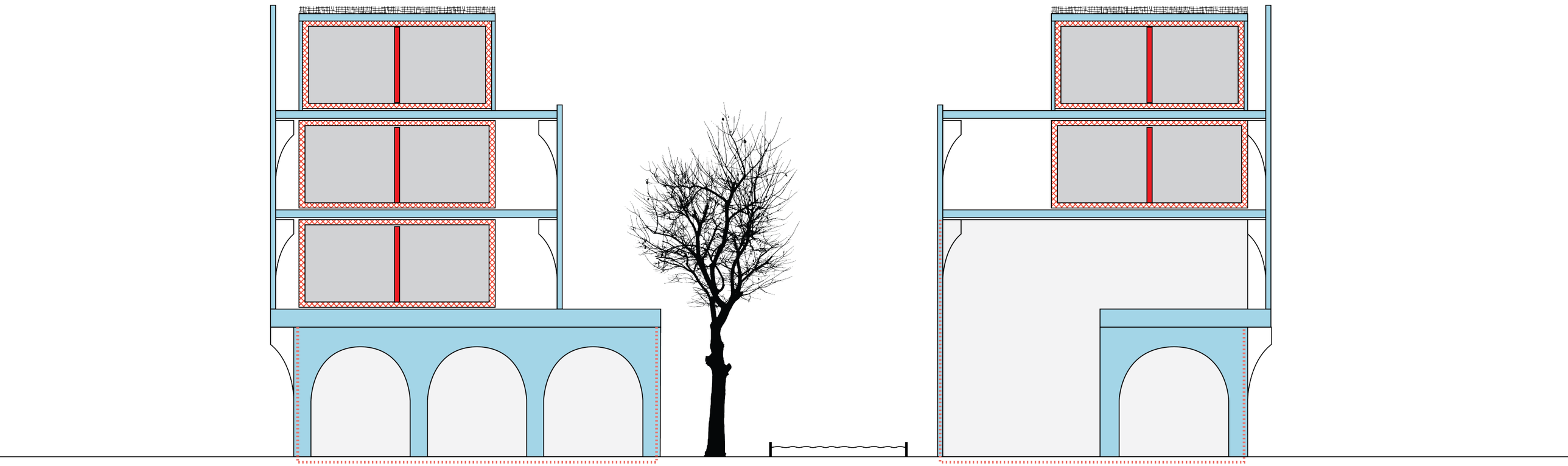






Constructual principle

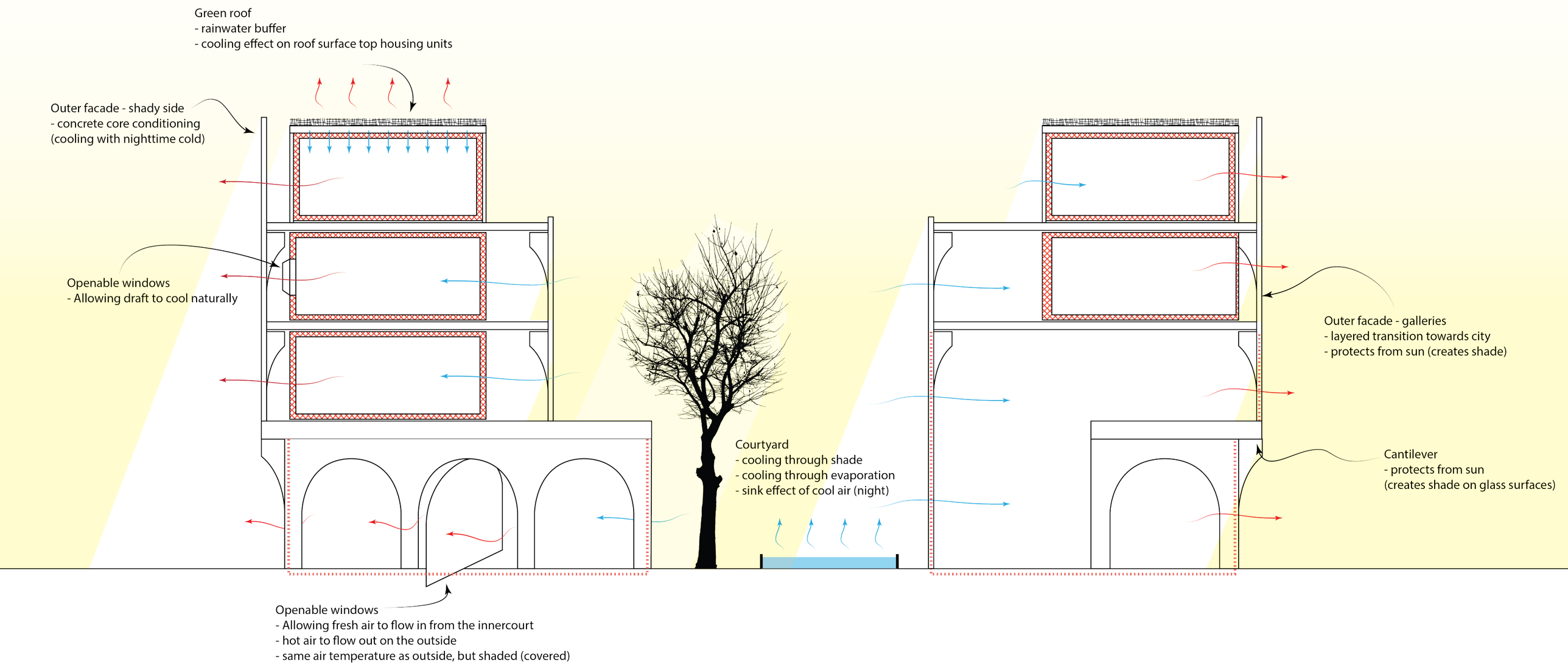
- Structure - outside thermal shell
- Structure - inside thermal shell
- Housing unit - climatized
- Public facilities - inside but not/limited climatized
- Outside - unclimatized



Climate principle
thermal shell

Summer

high sun (70°, shades under cantilevers)
high temperatures
heating island effect in city

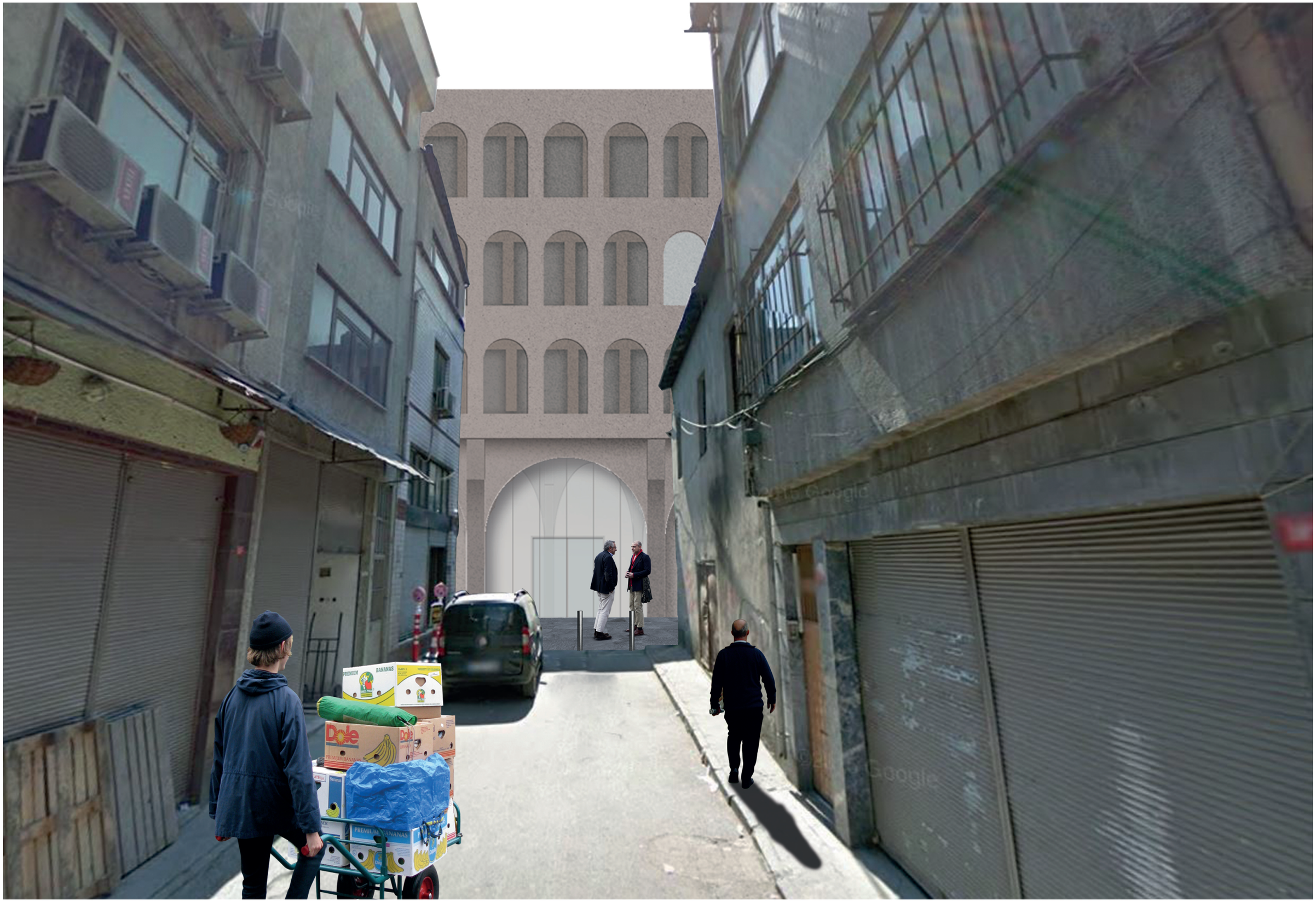


Climate principle
Summer

Winter

low sun (26°, sun can enter under cantilevers)
cold temperatures
rain and snow

Climate principle
Winter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