

THE ARK







DE OPEN STAD: EEN HUIS VOOR DE NATUUR

HOE DE SOLO DWELLER KAN FLOREREN IN EEN NATUUR-INCLUSIEVE STAD

Gawein Verbiest
Dutch Housing

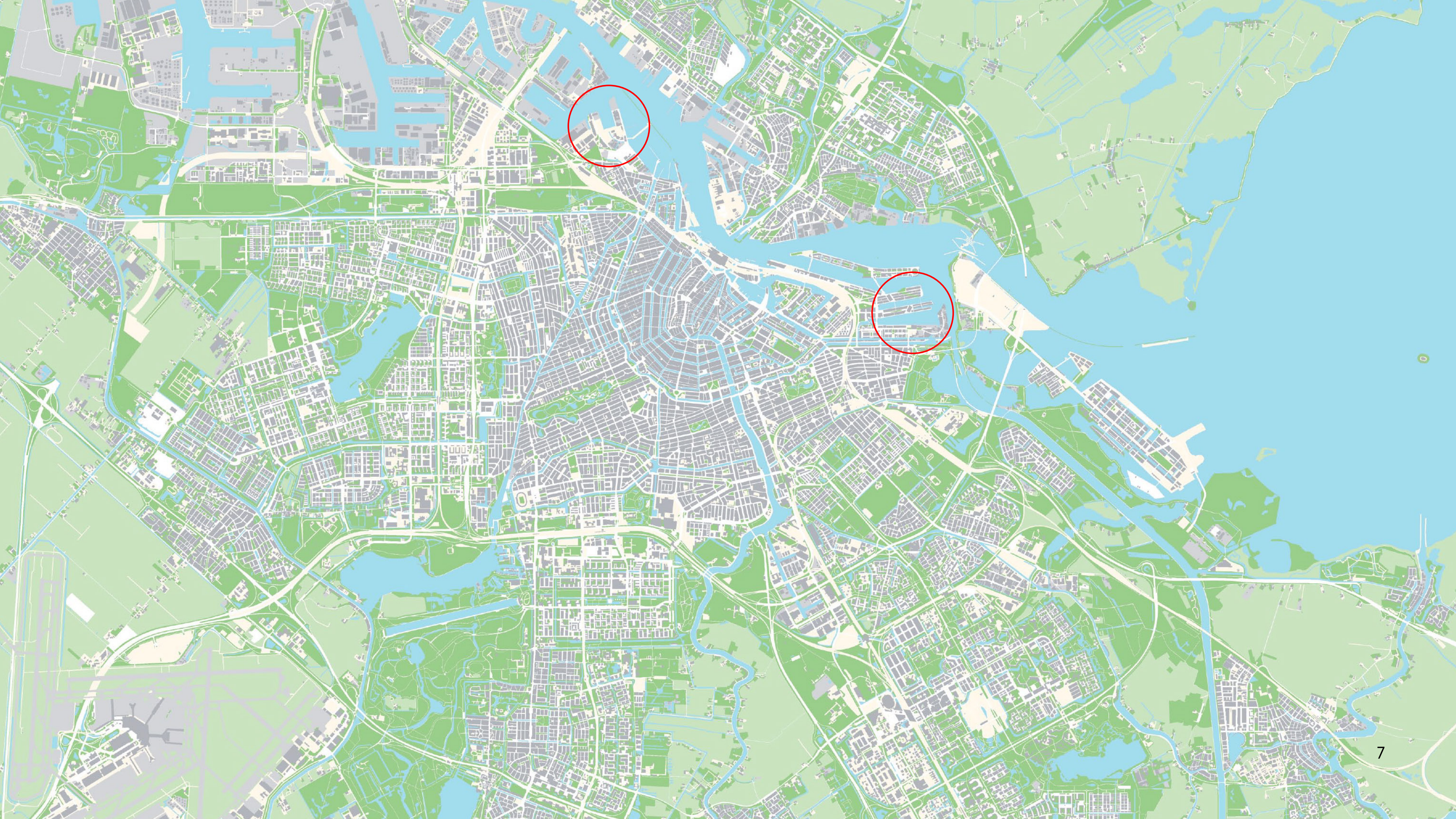
4284135
Between standards and ideals

Master Architecture, Urbanism and Building Sciences
Technische Universiteit Delft (TUD)

nature - *“something that is left to be altered by time rather than being controlled by means of human intervention.”*

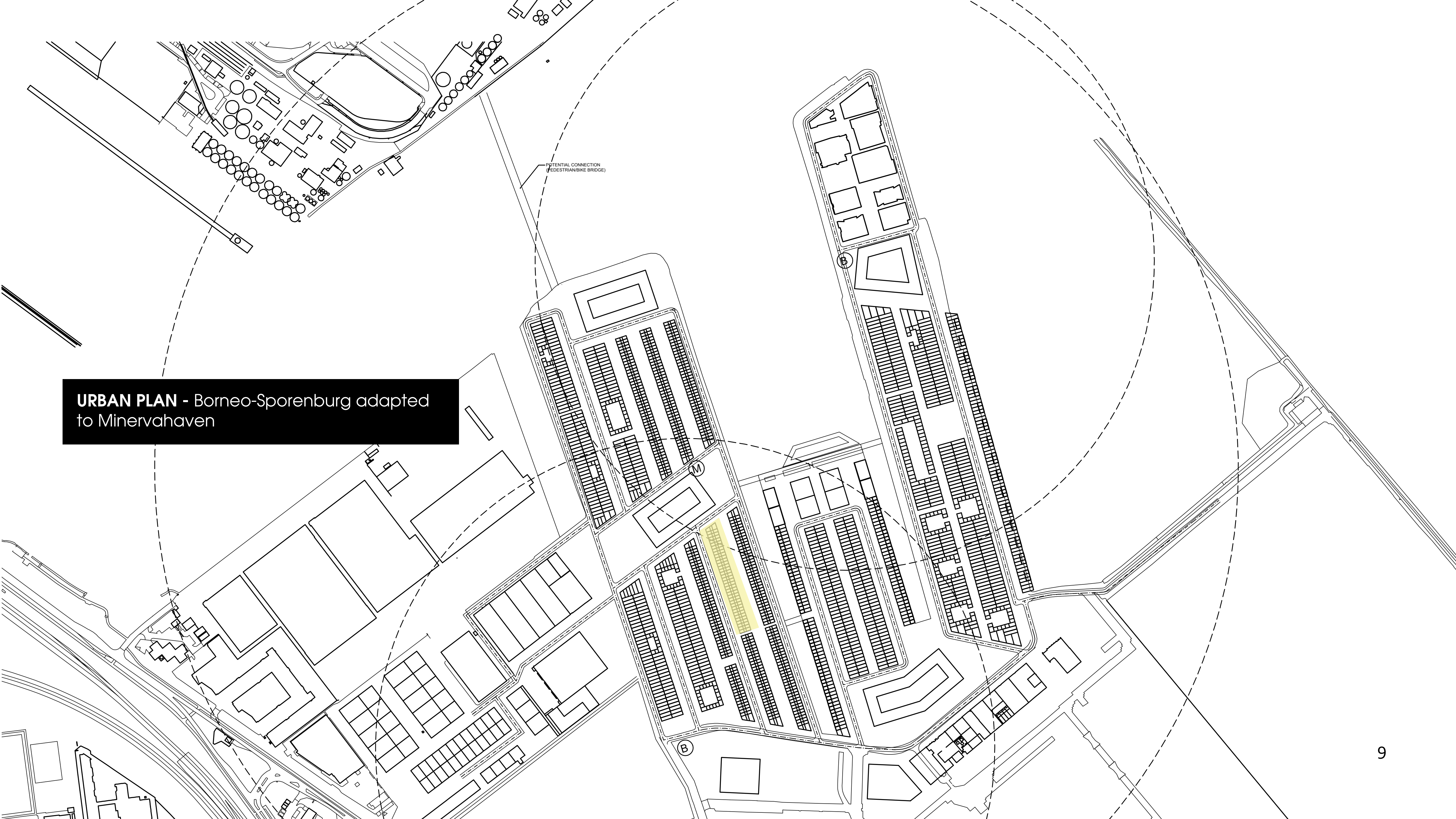
nature - *“something that is left to be altered by time rather than being controlled by means of human intervention.”*

nature-inclusive city - *“an urban area that allows spaces to be altered over time without human control.”*





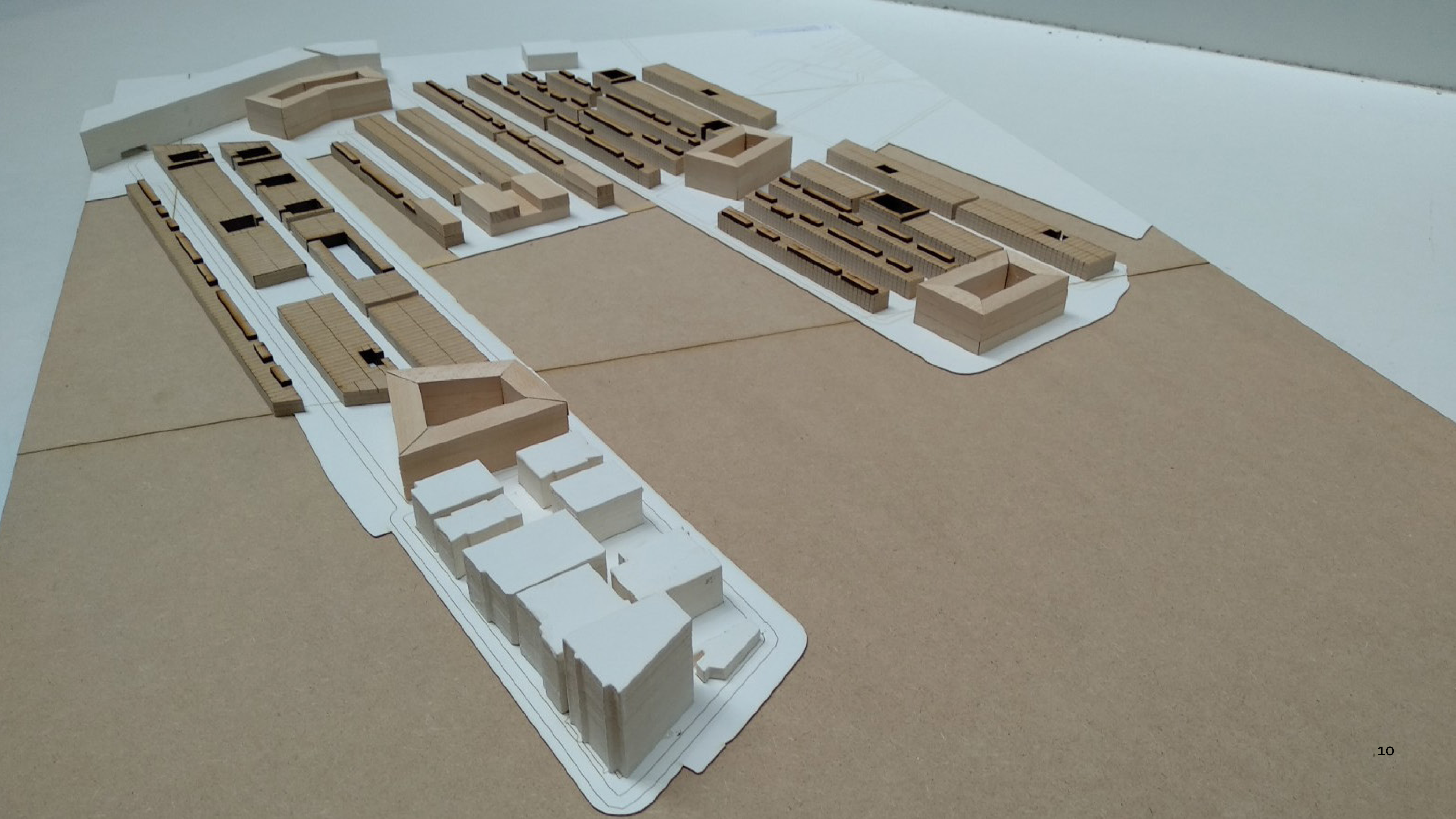
URBAN PLAN - Borneo-Sporenburg adapted to Minervahaven

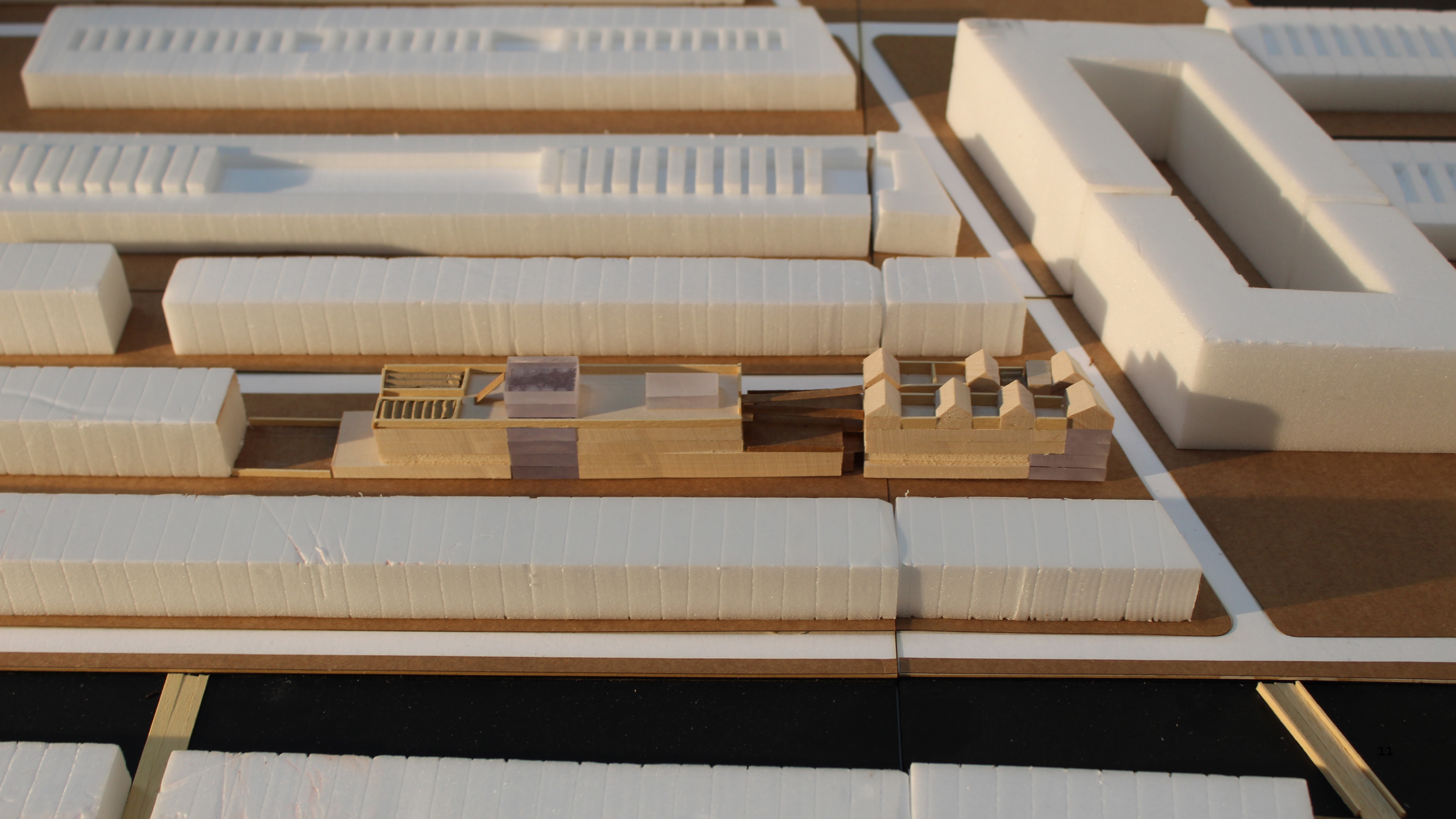


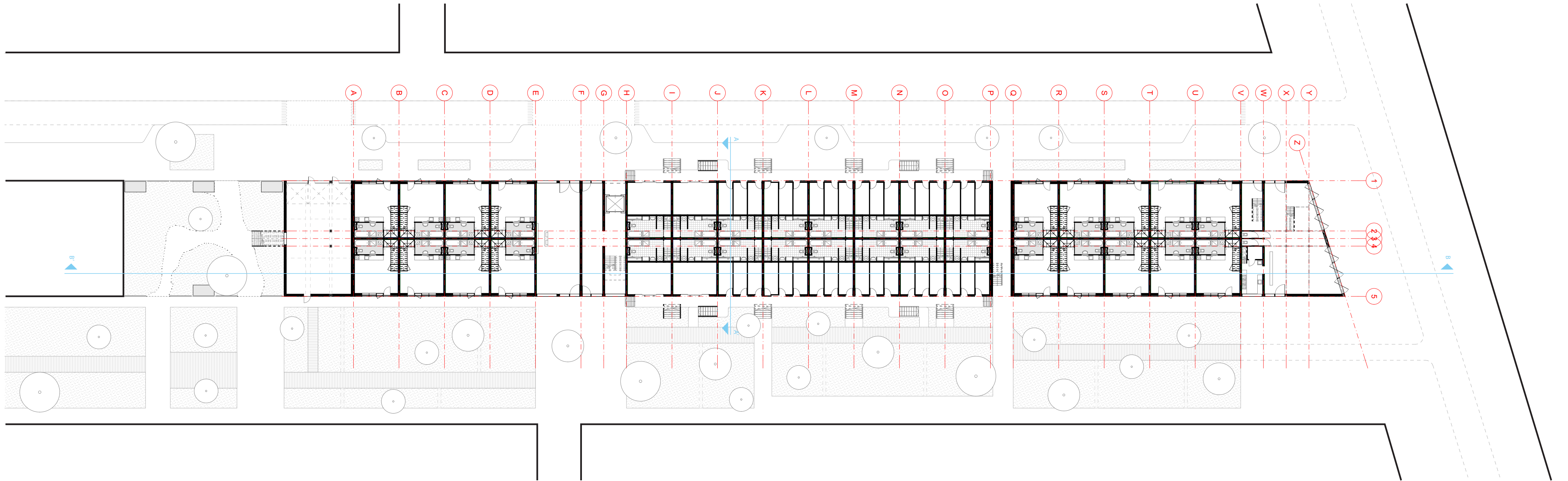
POTENTIAL CONNECTION
(PEDESTRIAN/BIKE BRIDGE)

(M)

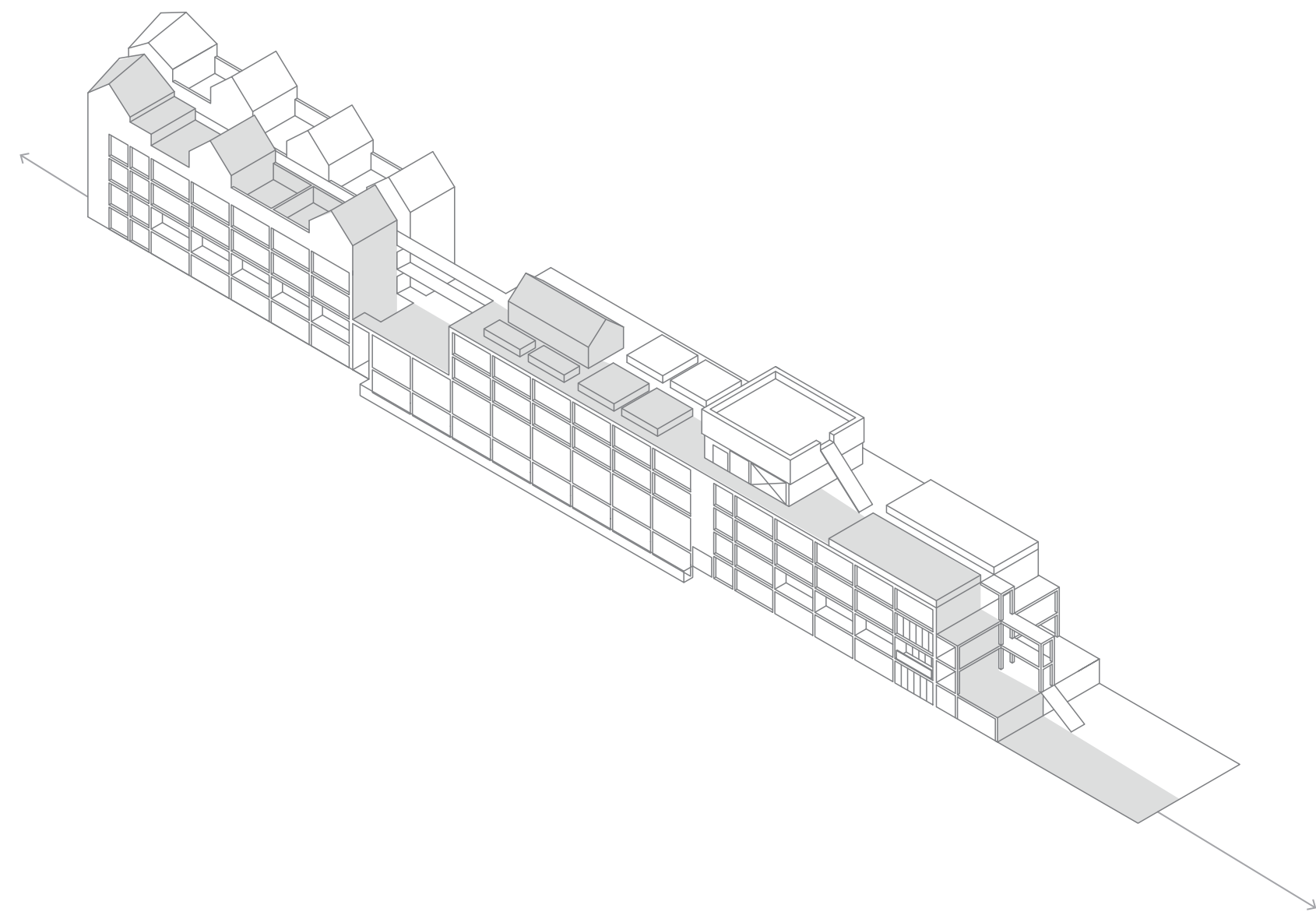
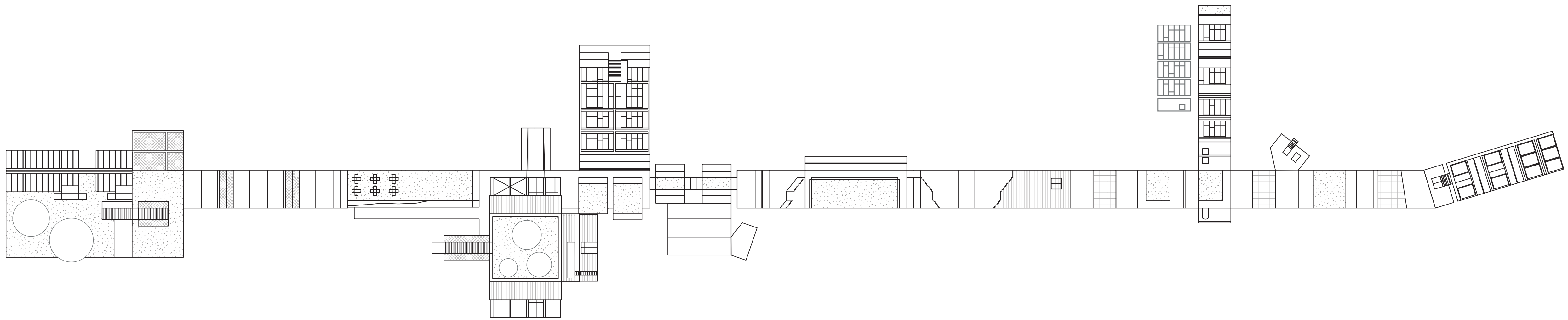
(B)

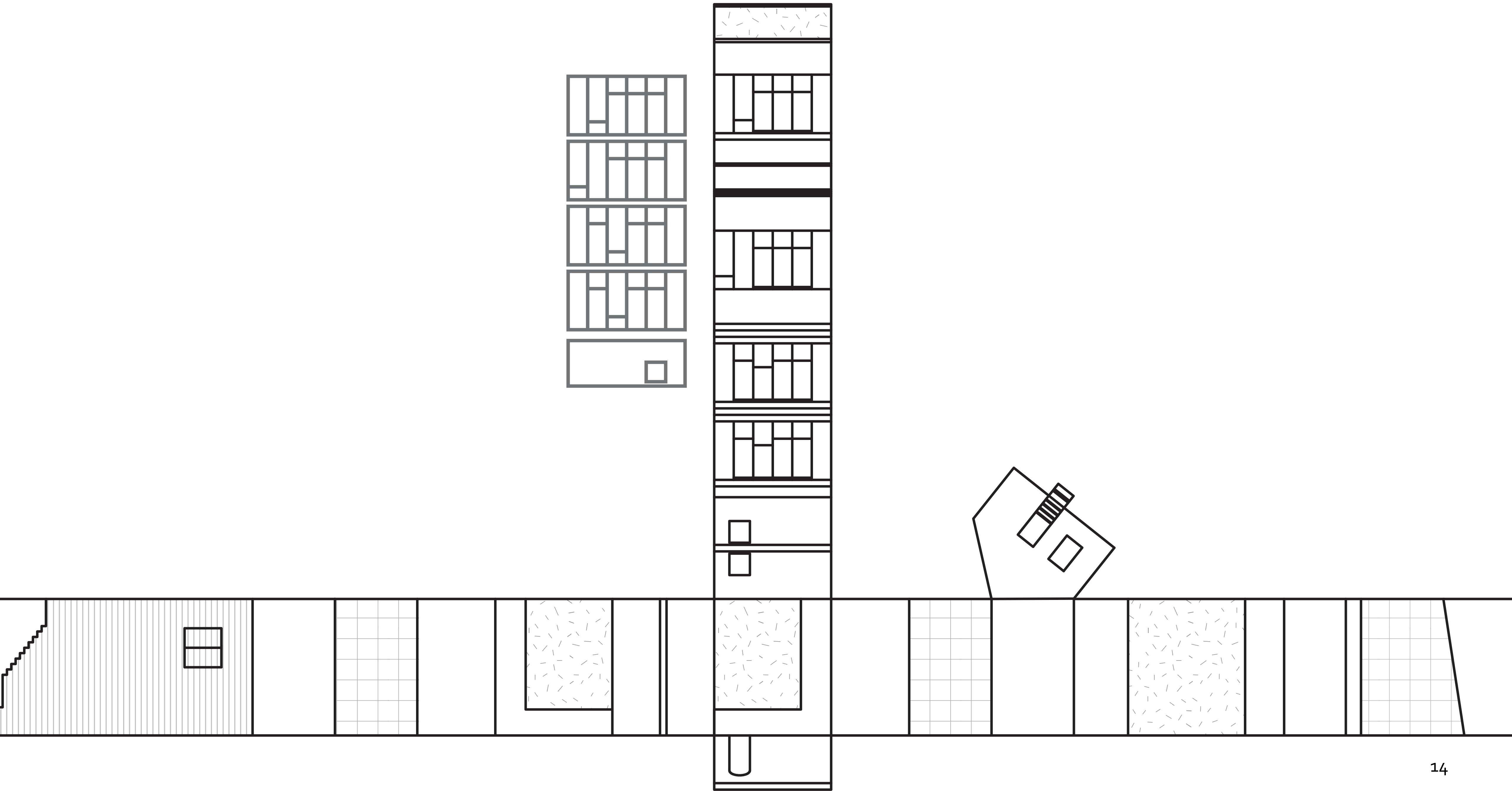


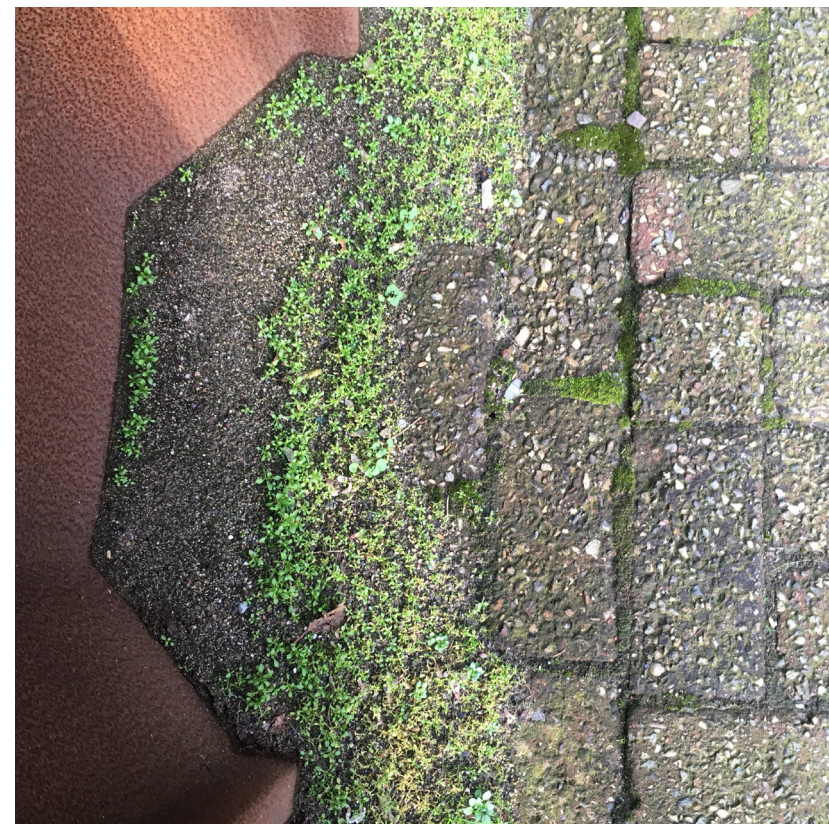




Ground Floor
1:200

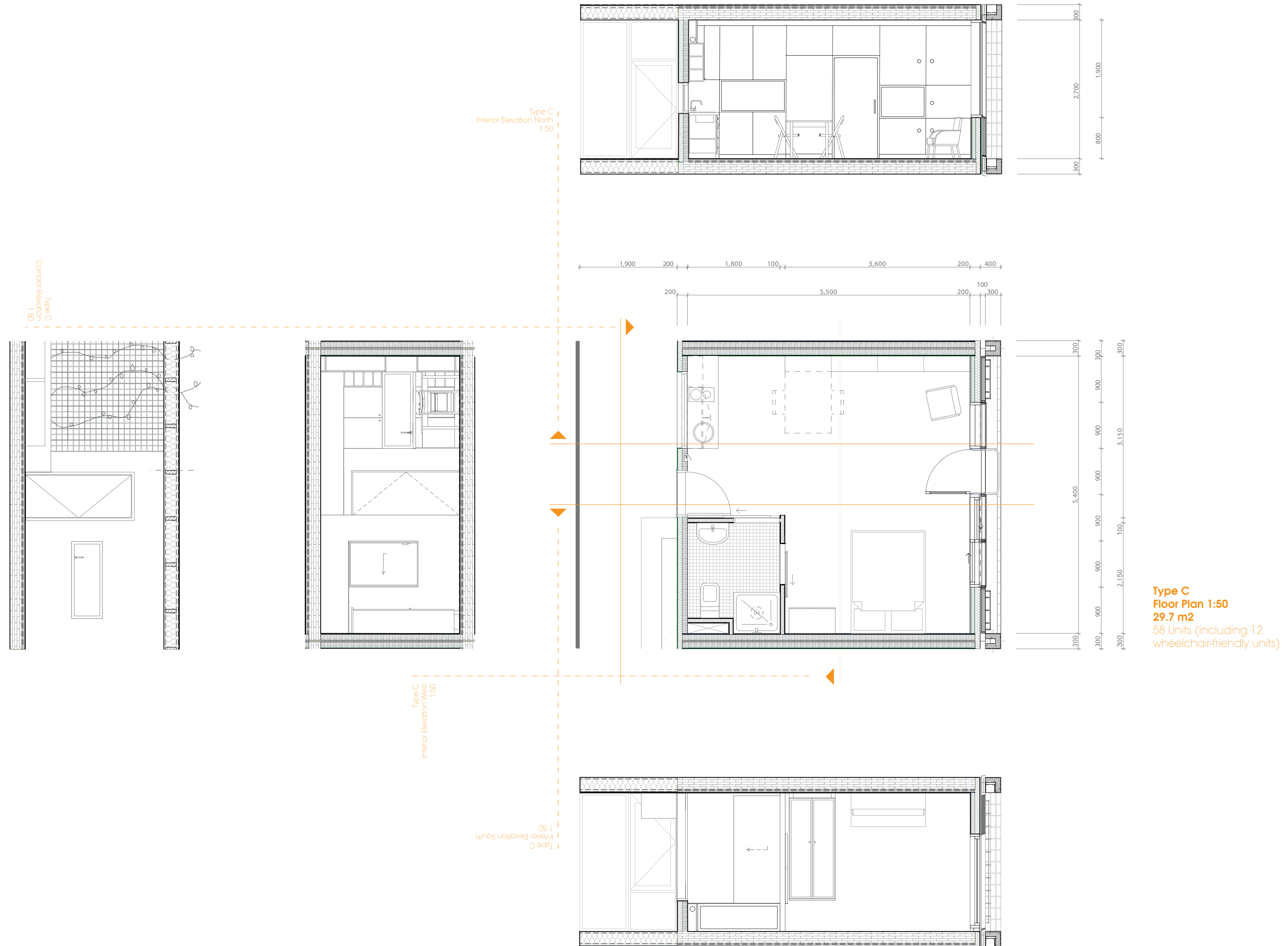


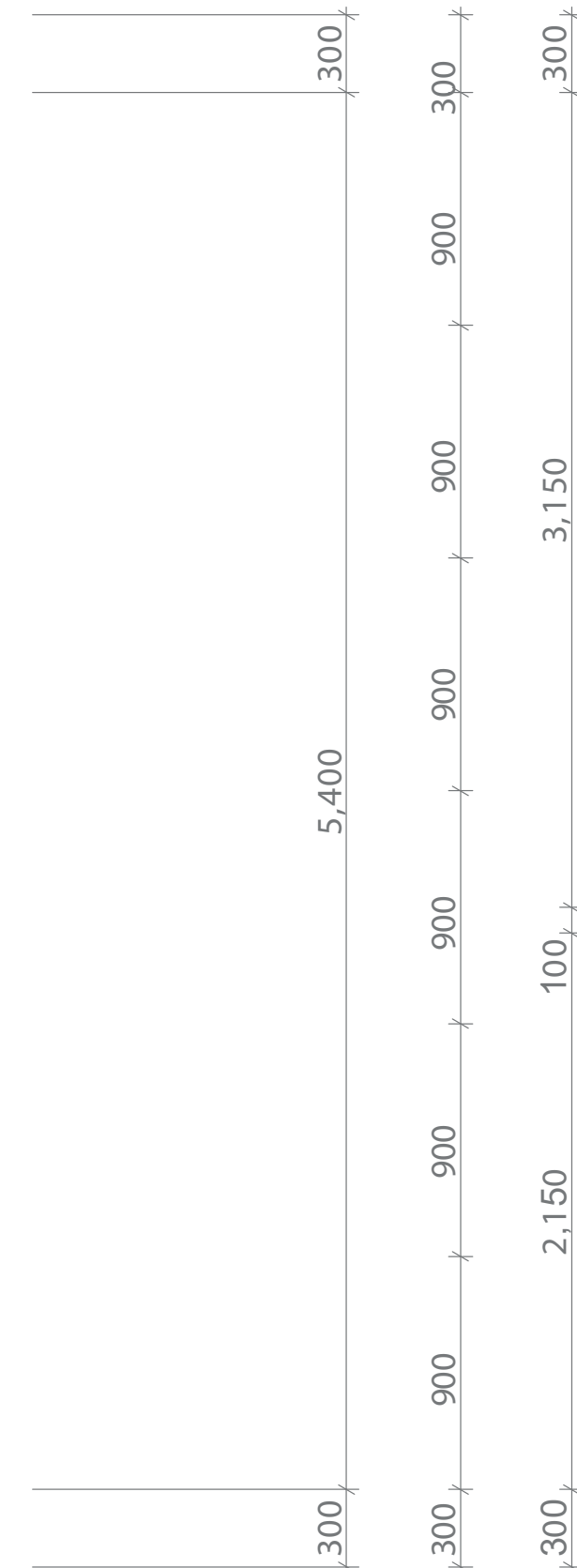
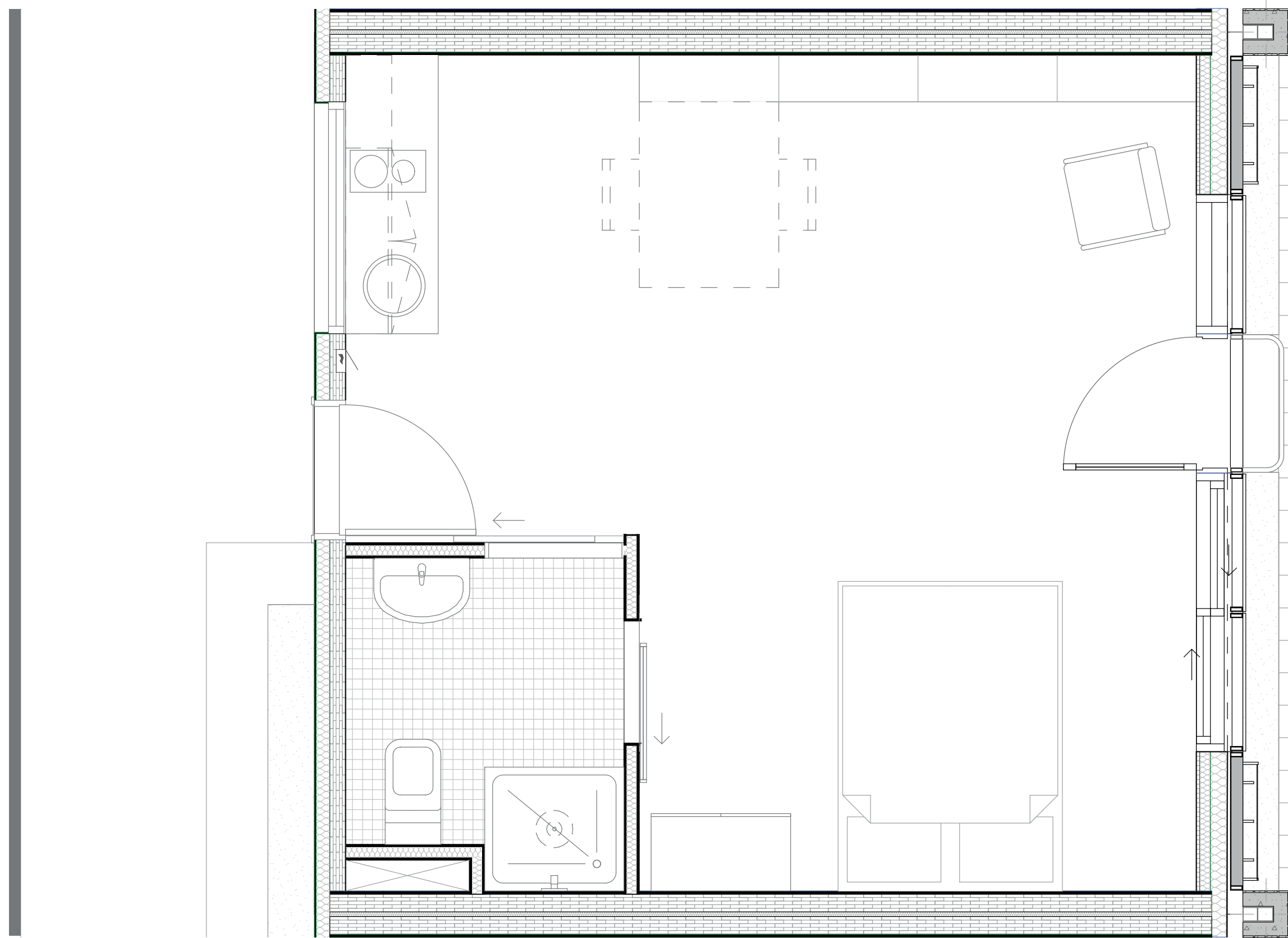
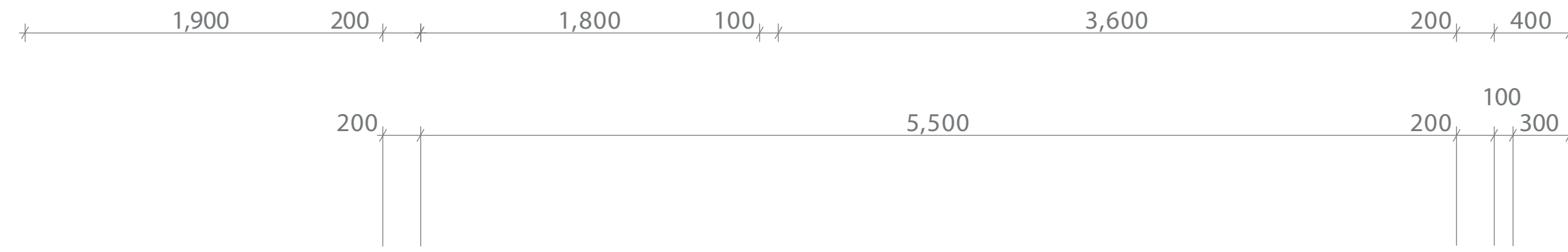




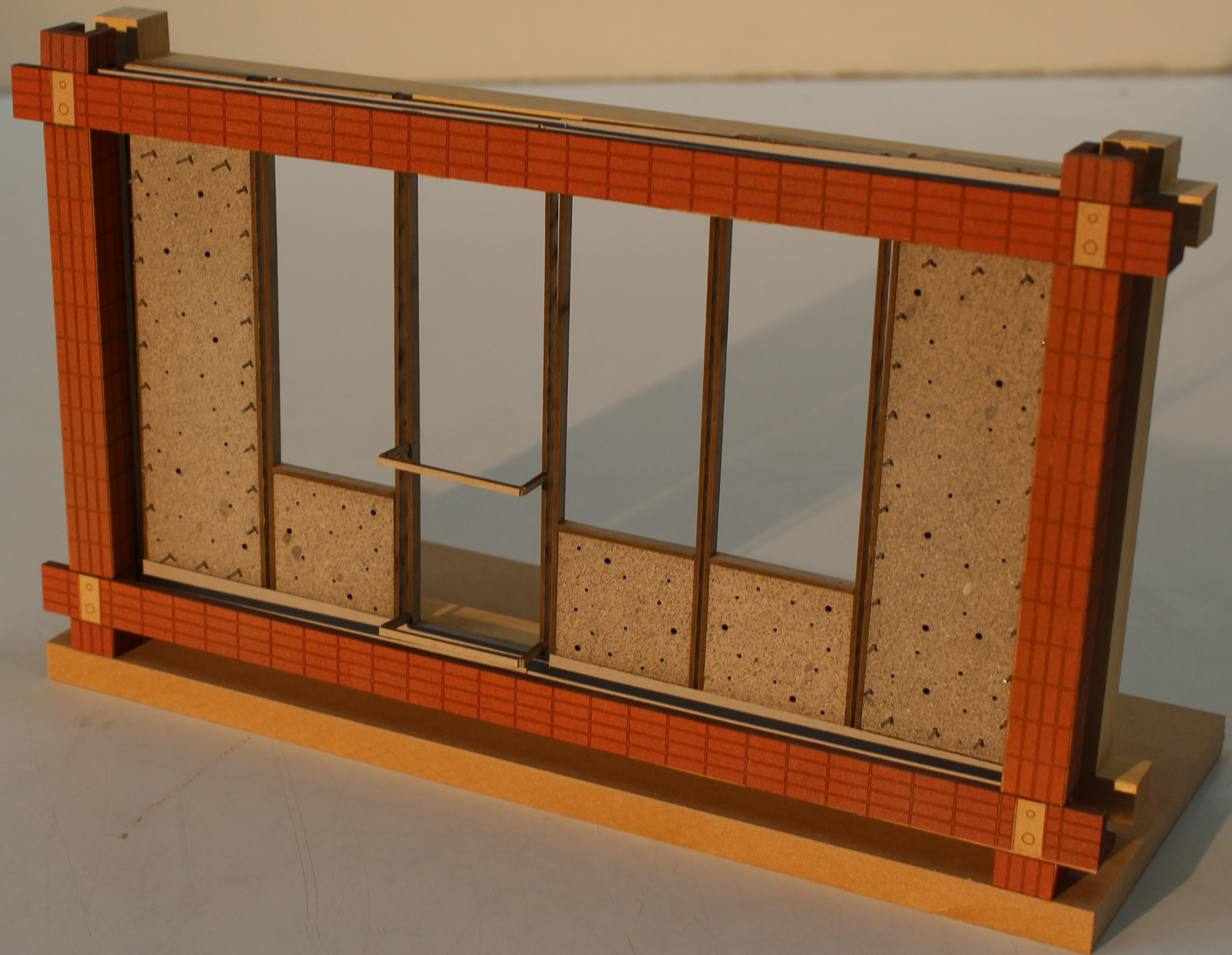


American Projection - Type C
1:50





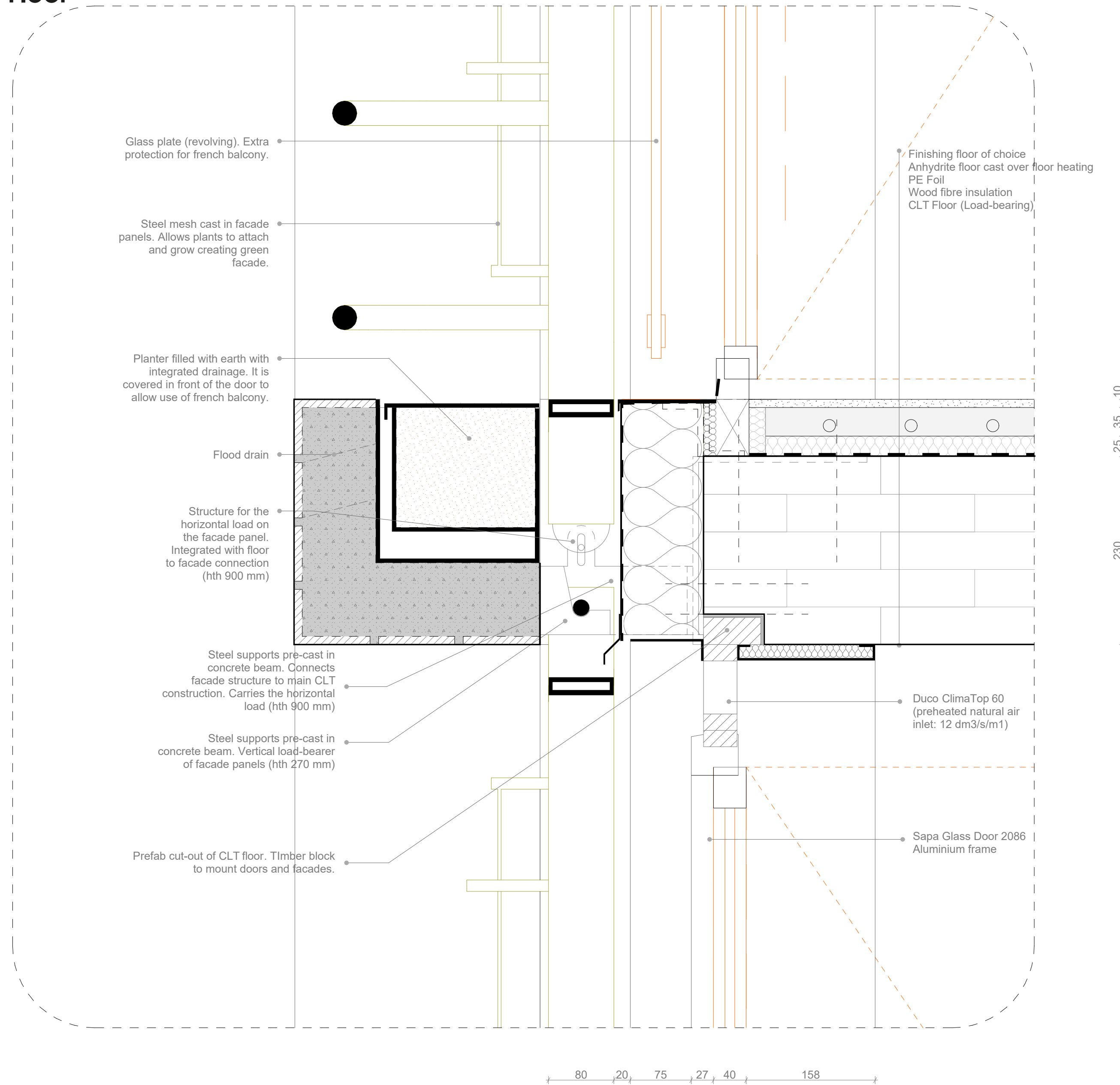
Type C
Floor Plan 1:50
29.7 m²
 58 Units (including 12 wheelchair-friendly units)

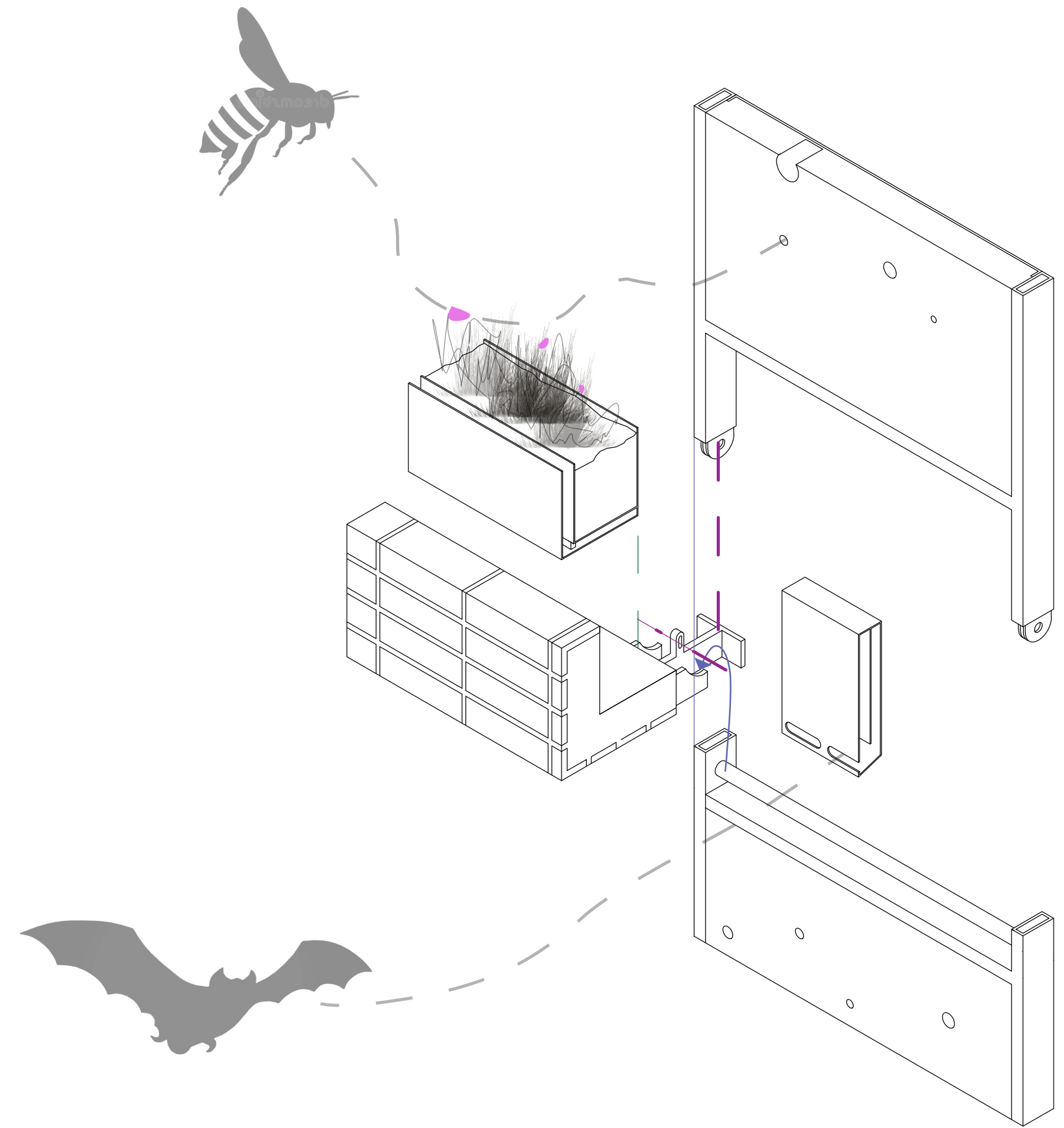
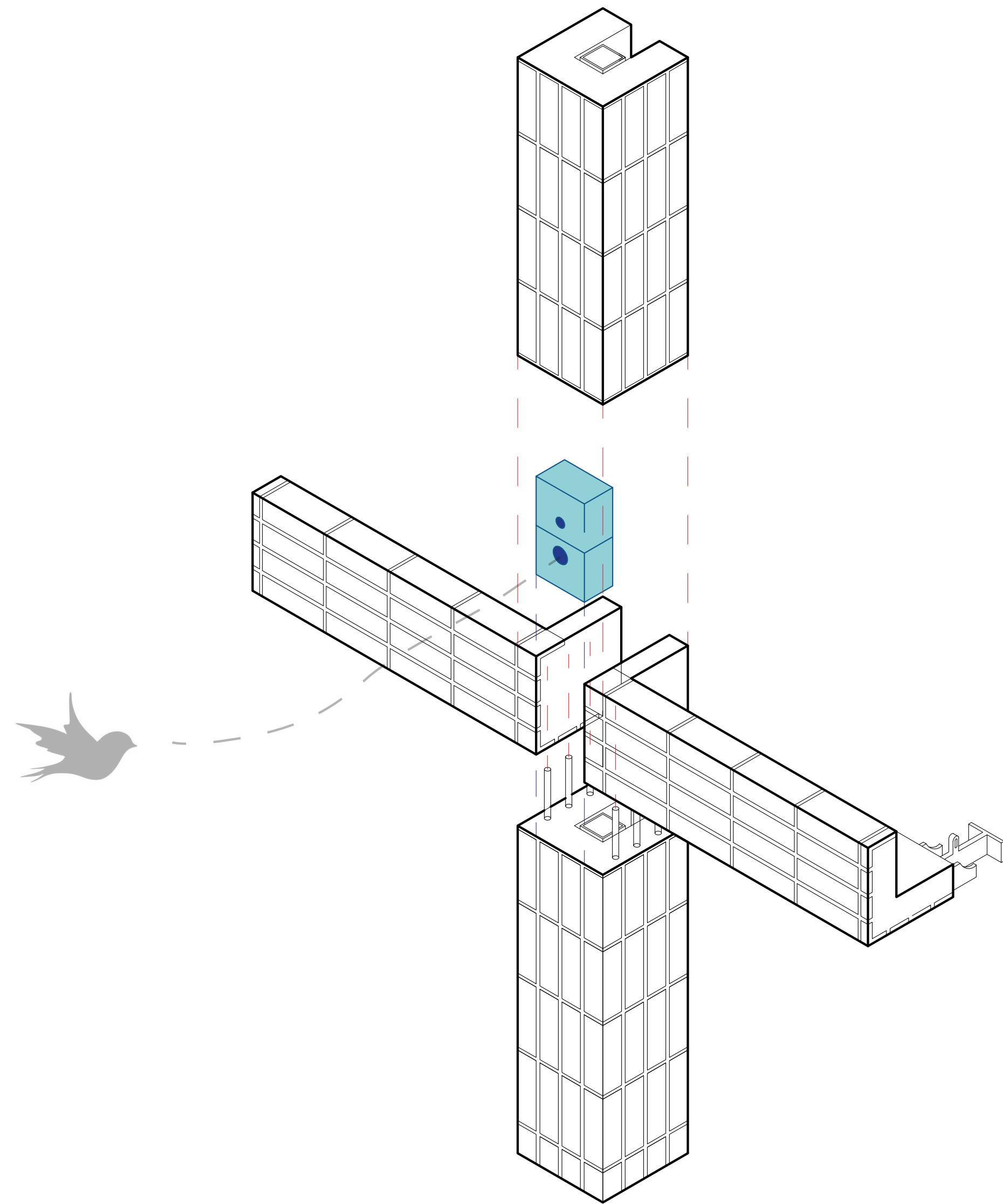




Detail 3 - Second Floor

1:5

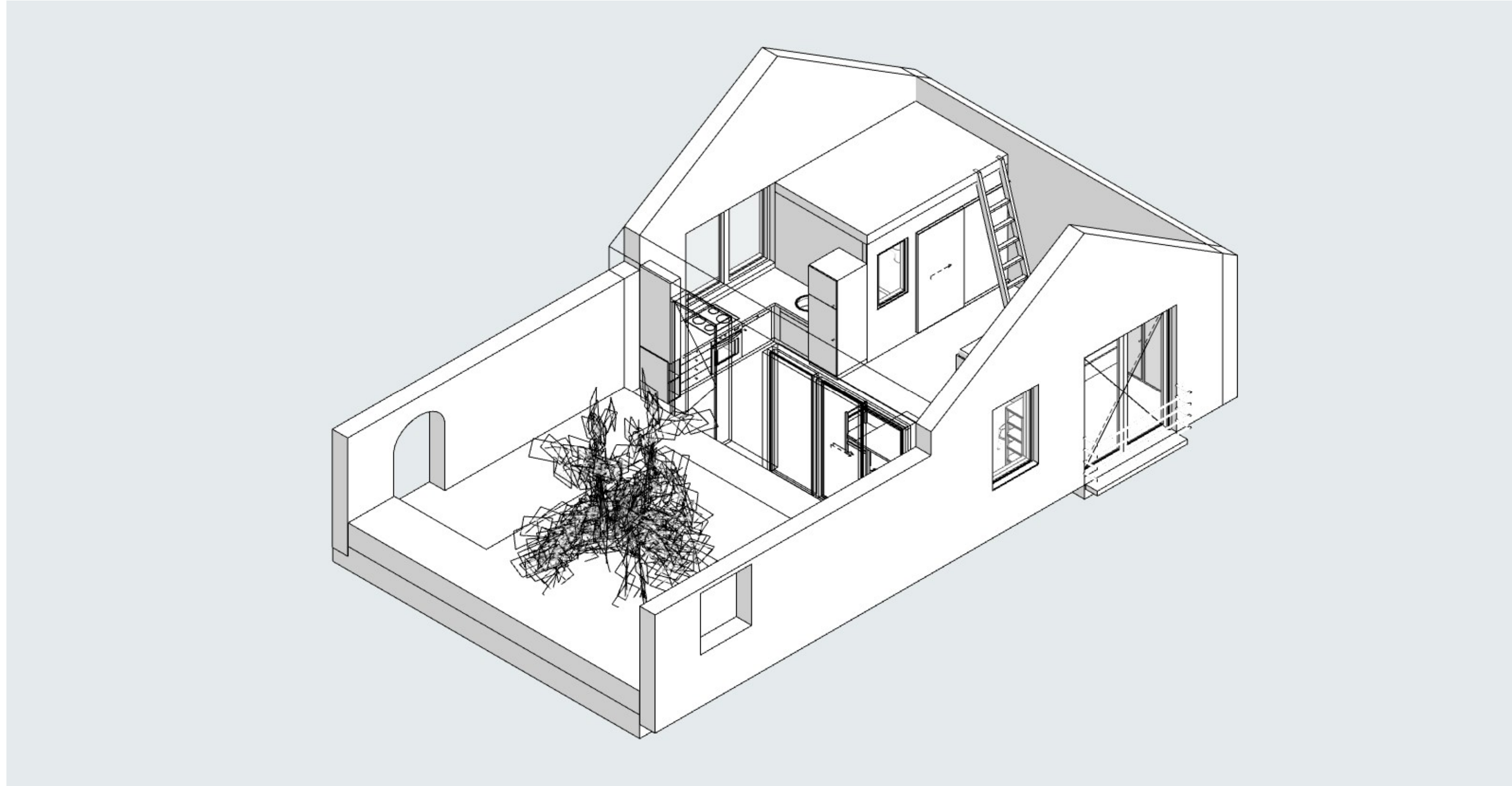




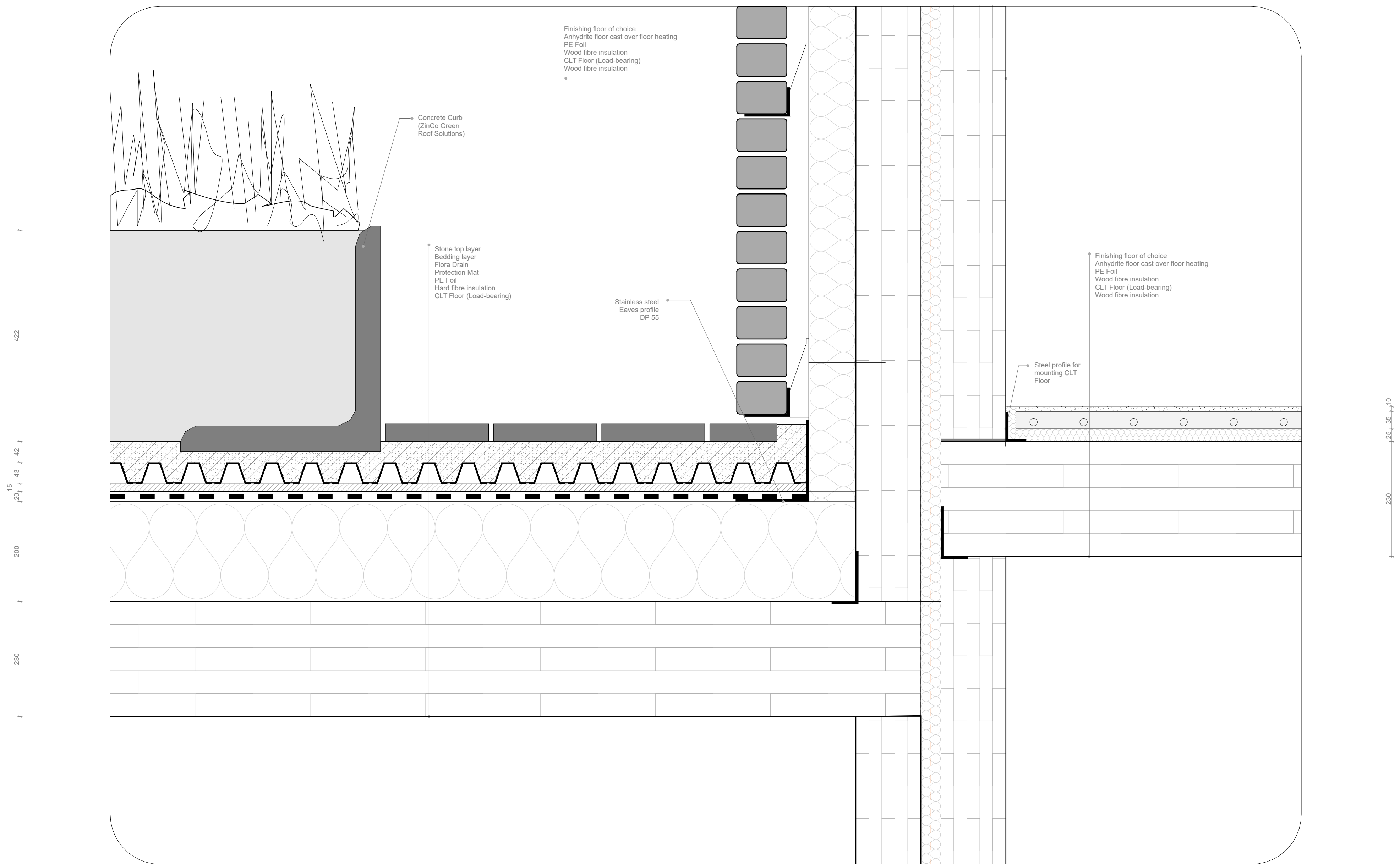


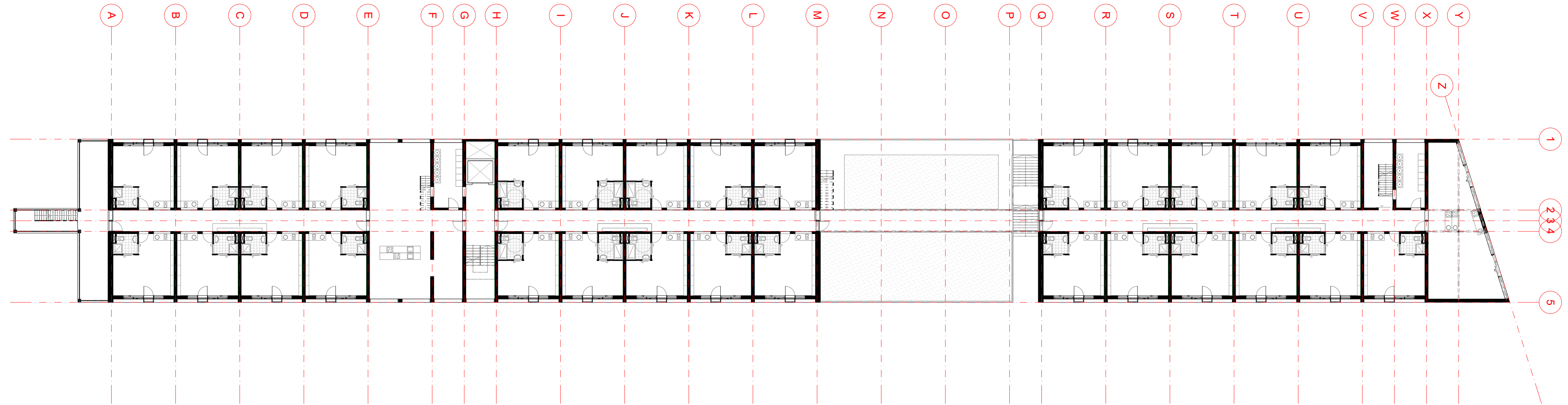






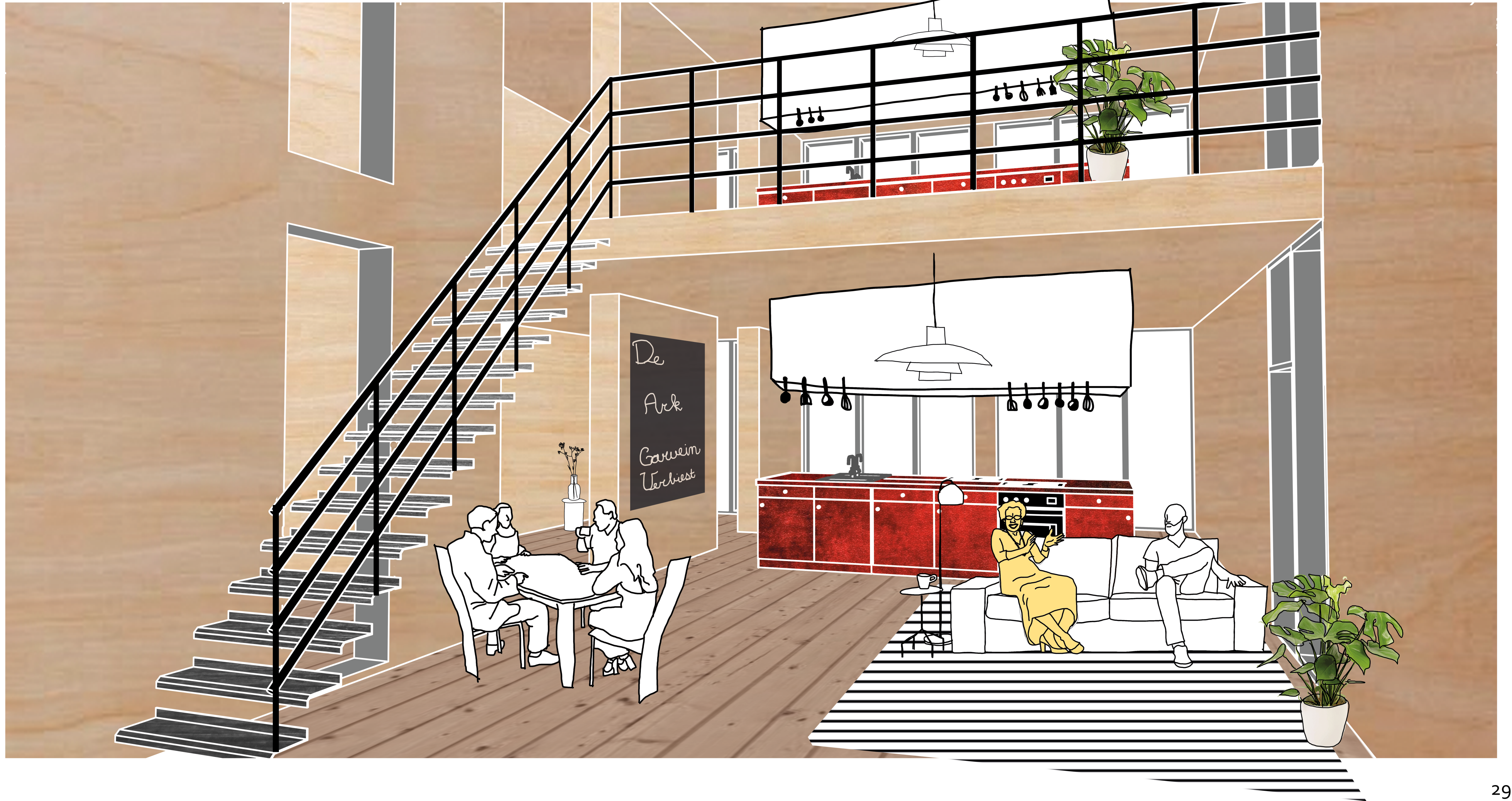
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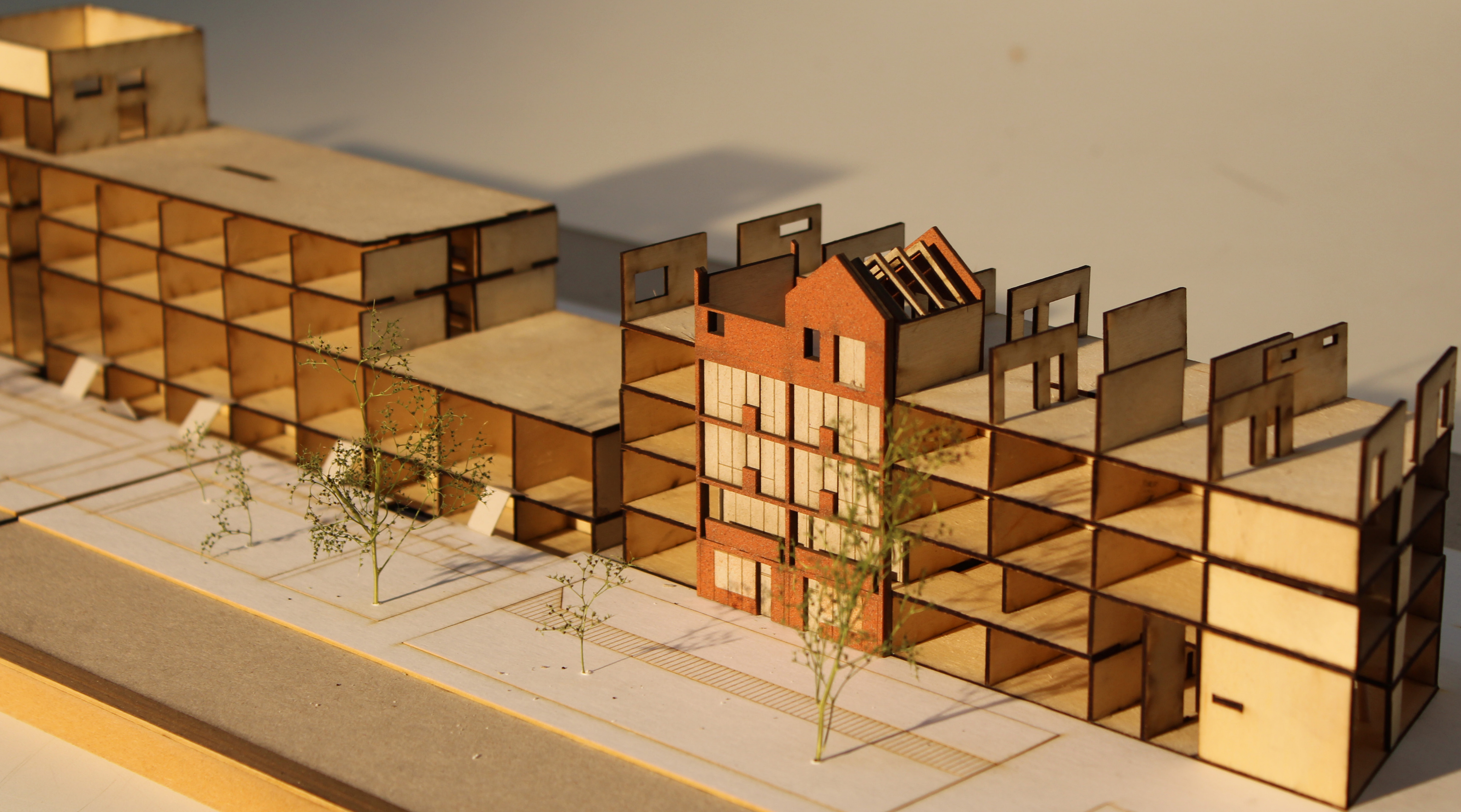




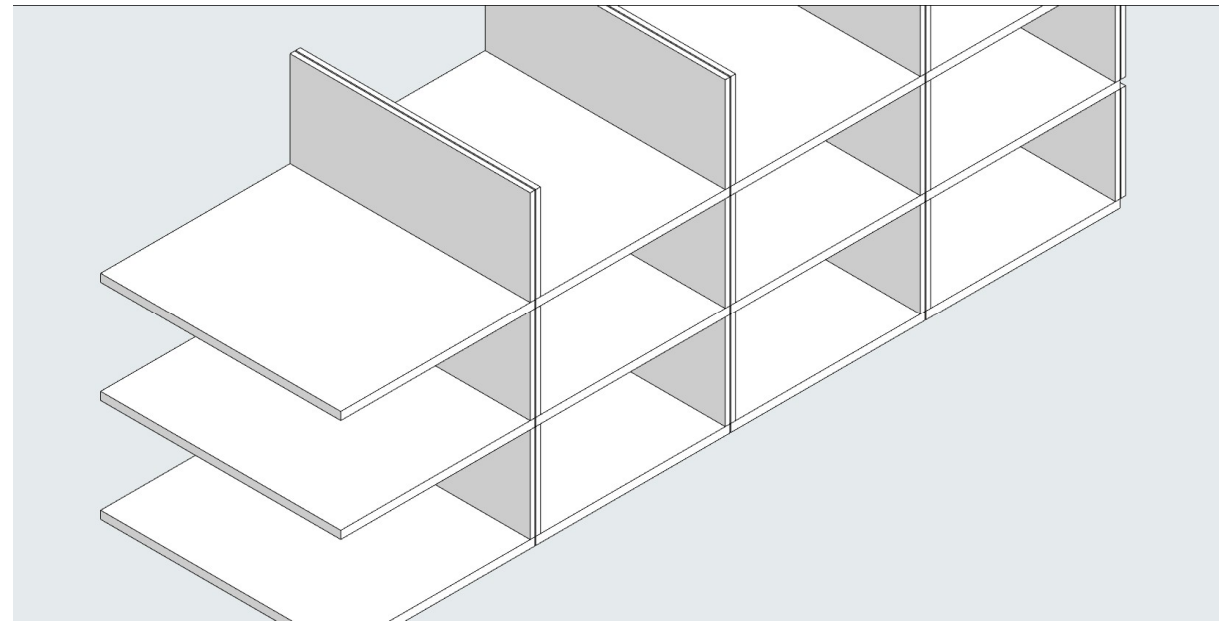
Second Floor
1:200



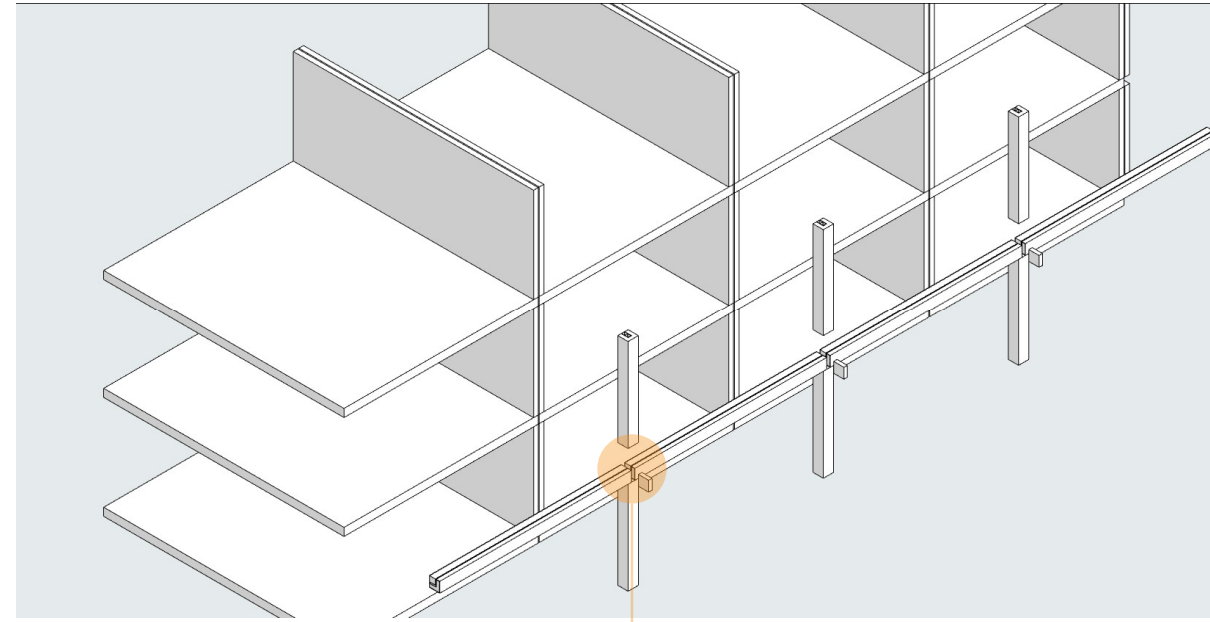




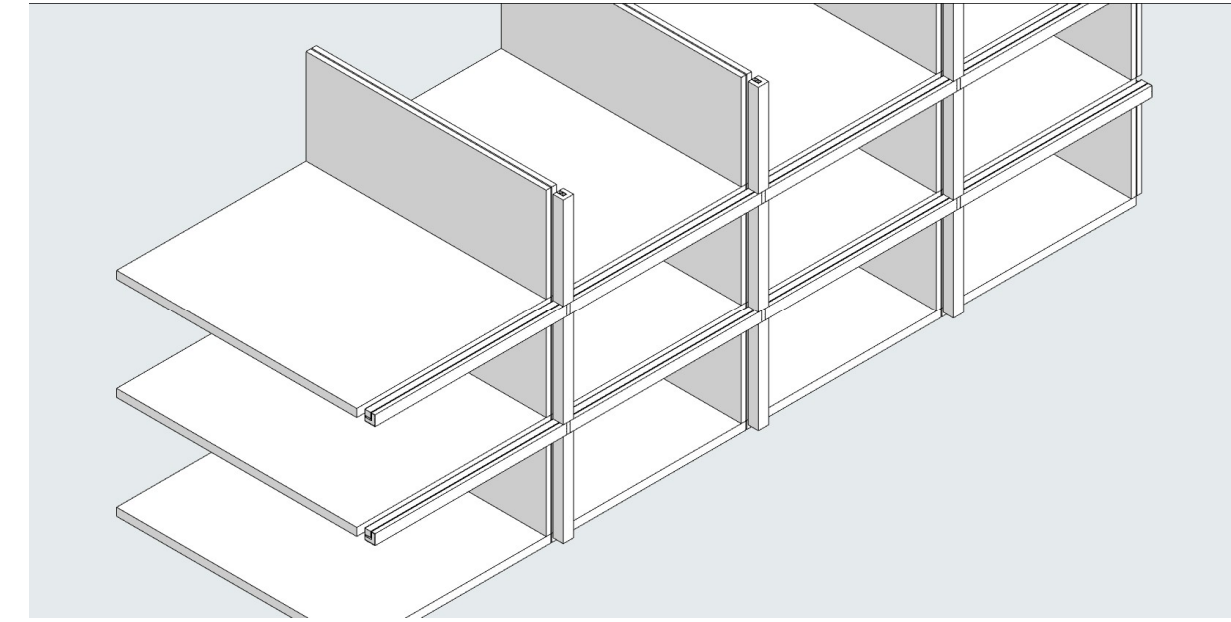
Assembly Order



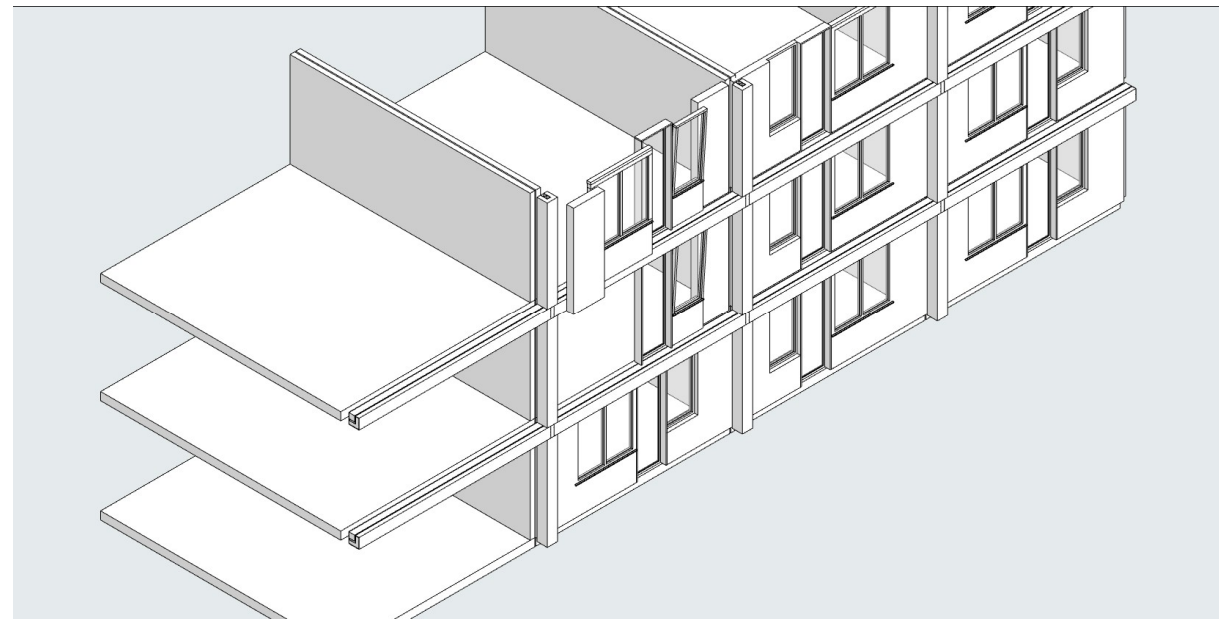
1: Assembling main CLT construction



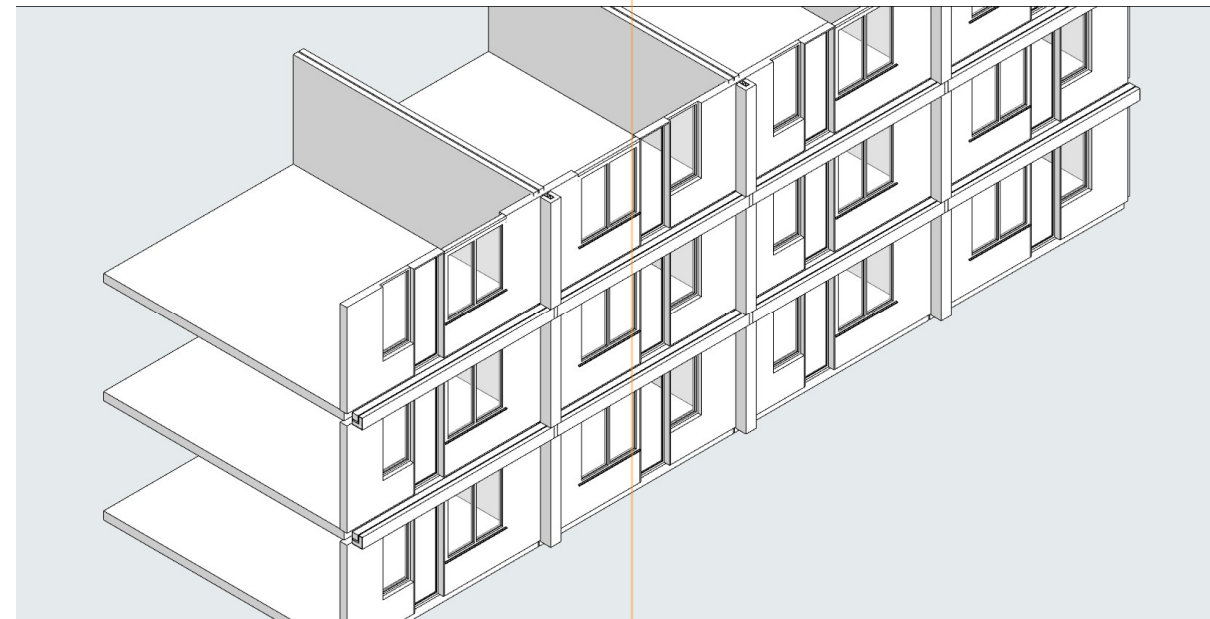
2: Assembling precast concrete facade columns and beams. Birds nests are also added in this stage.



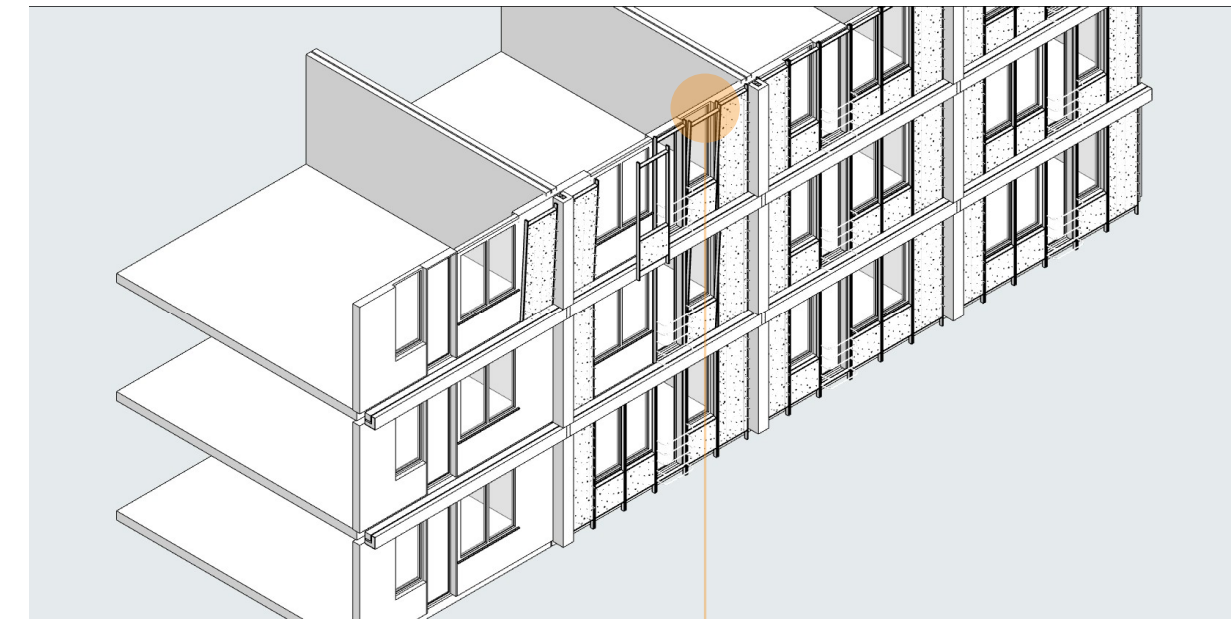
3: Attaching facade structure to main construction to prevent toppling. The facade structure bears its own load.



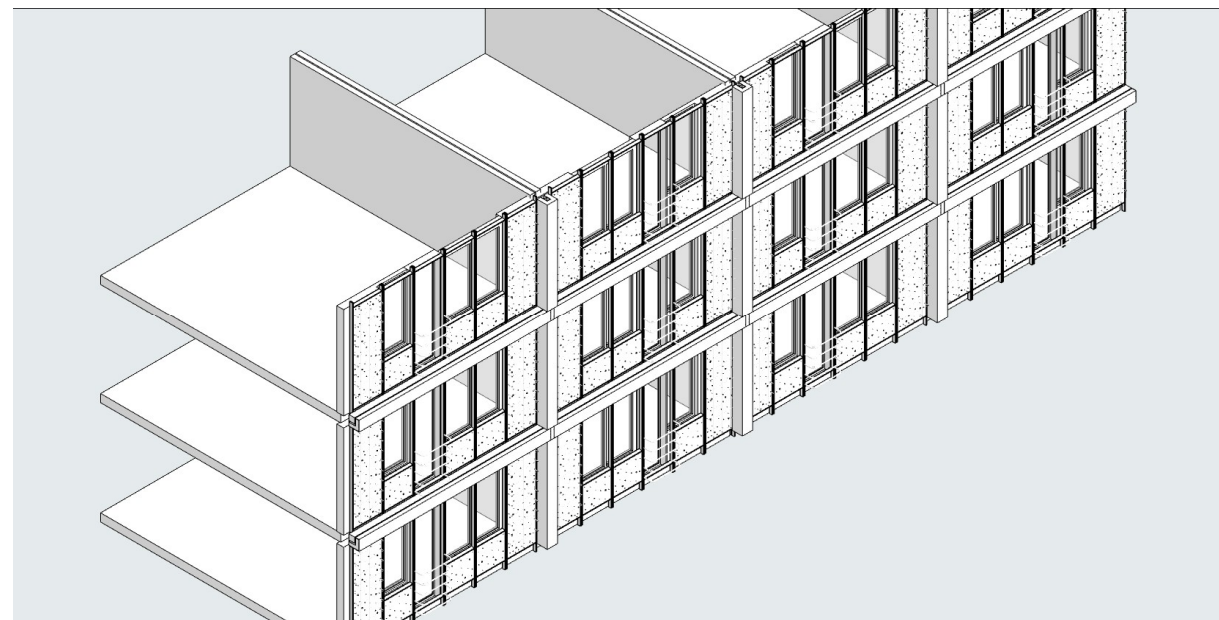
4: Assembling sandwich panels, windows and doors. This part of the facade is insulating, water- and airtight. It is attached to the main CLT construction.



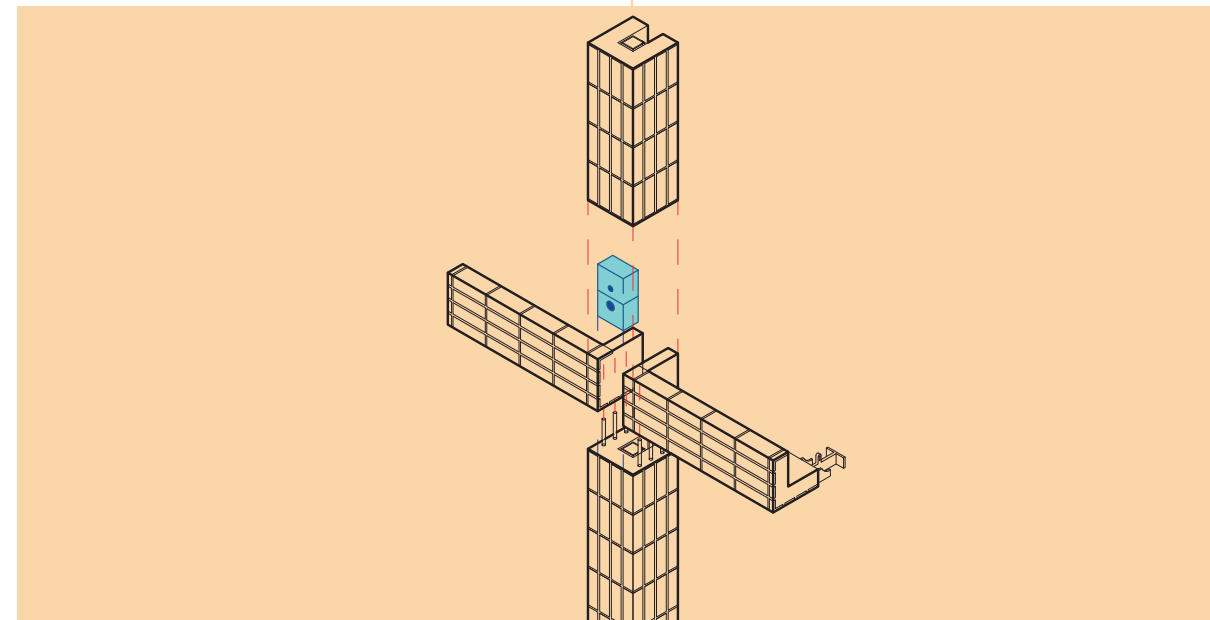
4: Finishing the inner facade. Making the building 'weatherproof'. Workers can begin with placing interior walls etc.



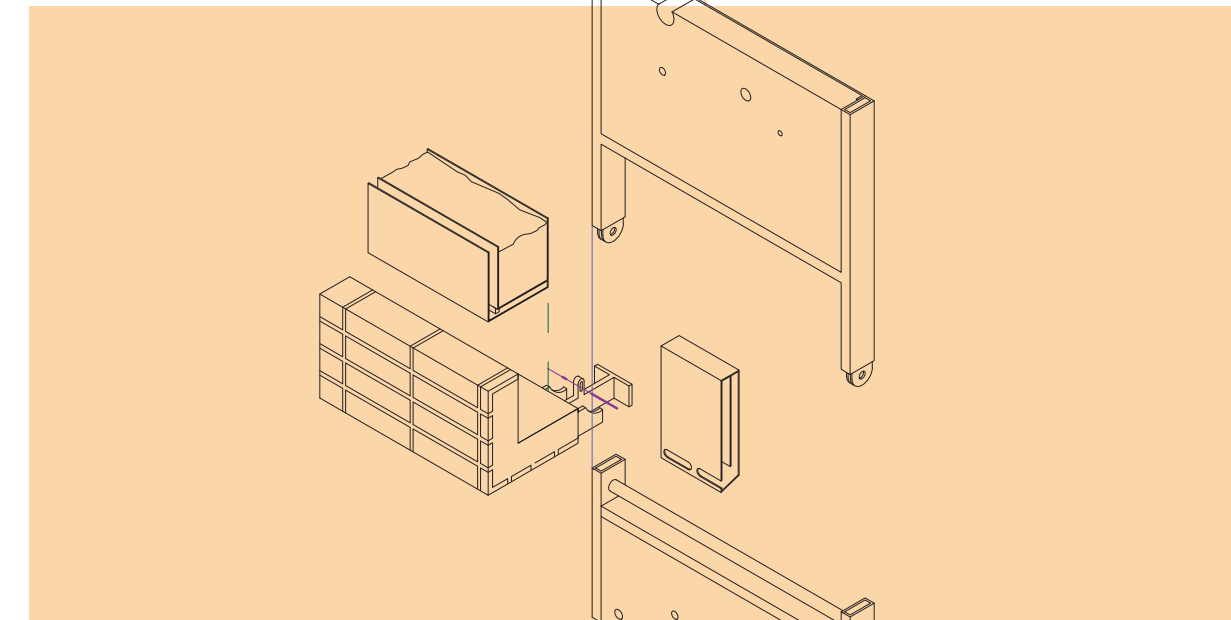
6: Attaching the outer facade panels to the facade structure. Bat cages should also be placed in this stage, above the panels.



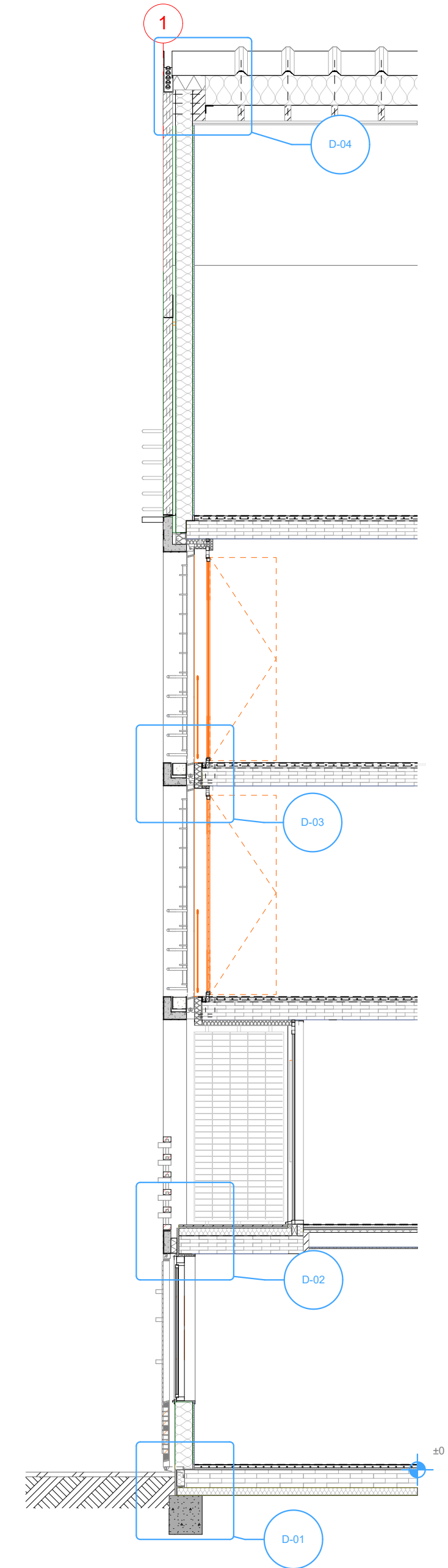
7: Bolting the panels into position. Finally, the planters can be put in their position on the beam and filled with earth and seeds.

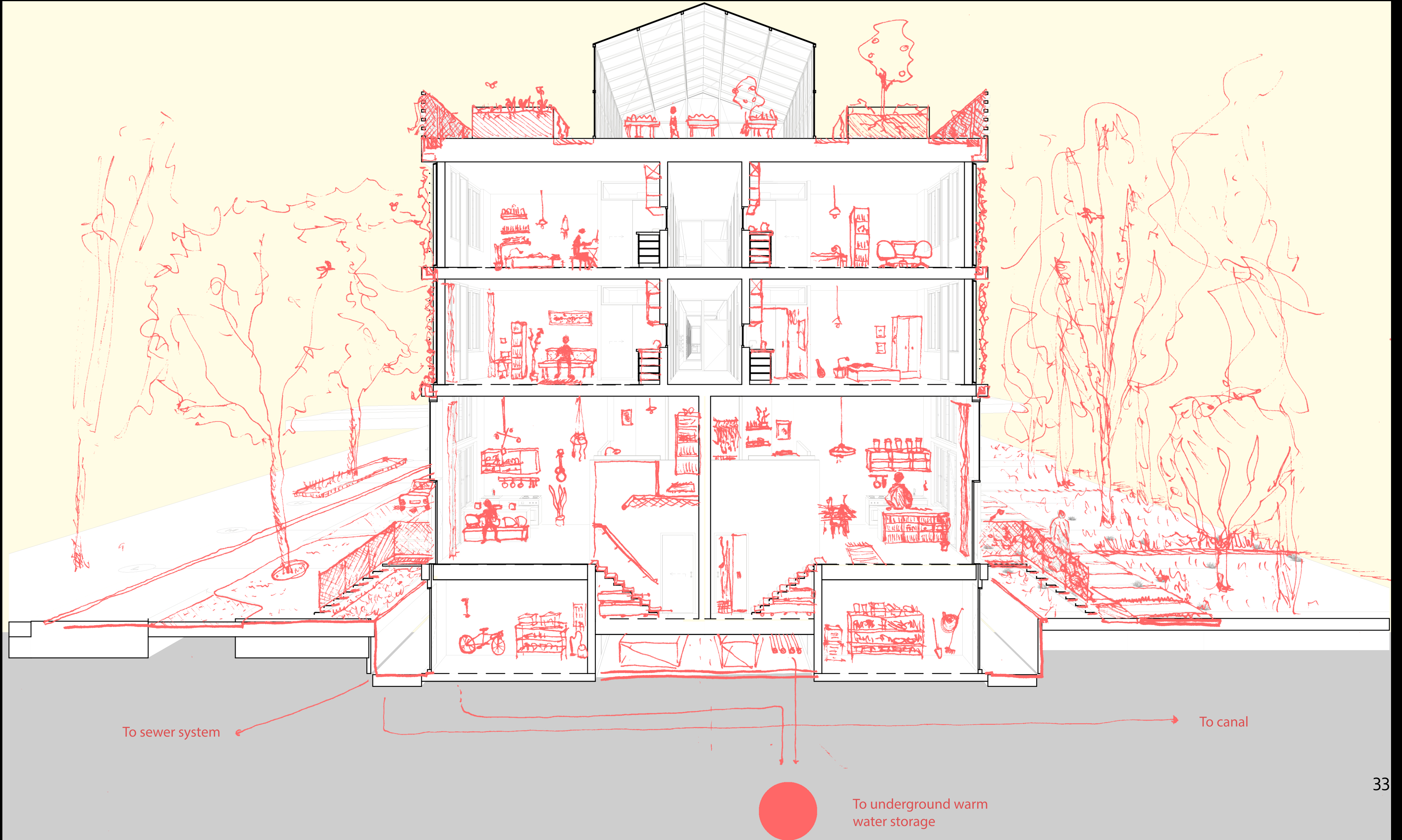


8: Close up of assembly of facade structure. See next page for a larger drawing.



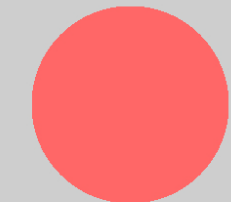
9: Close up of assembly of facade structure. See next page for a larger drawing.



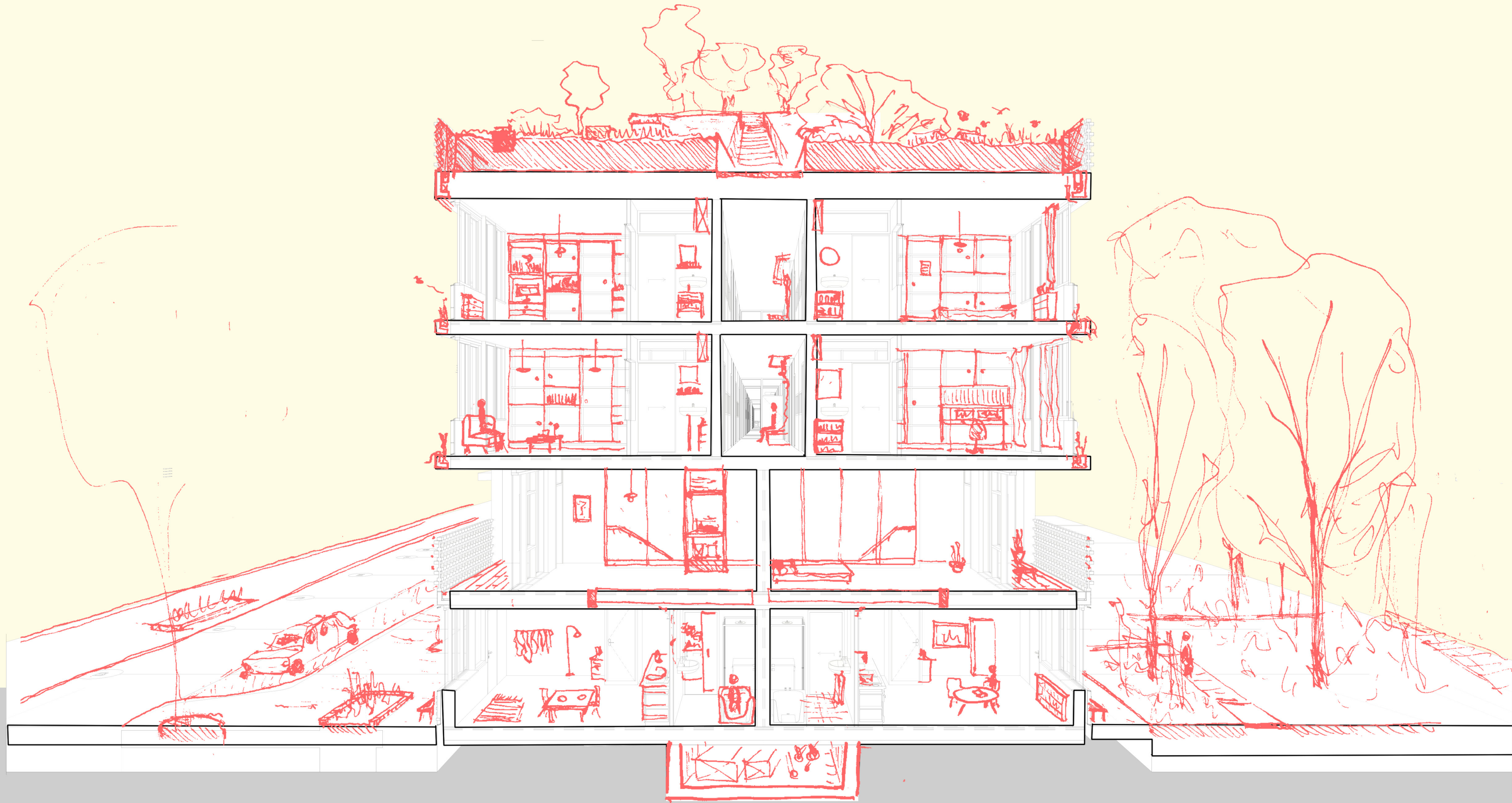


To sewer system

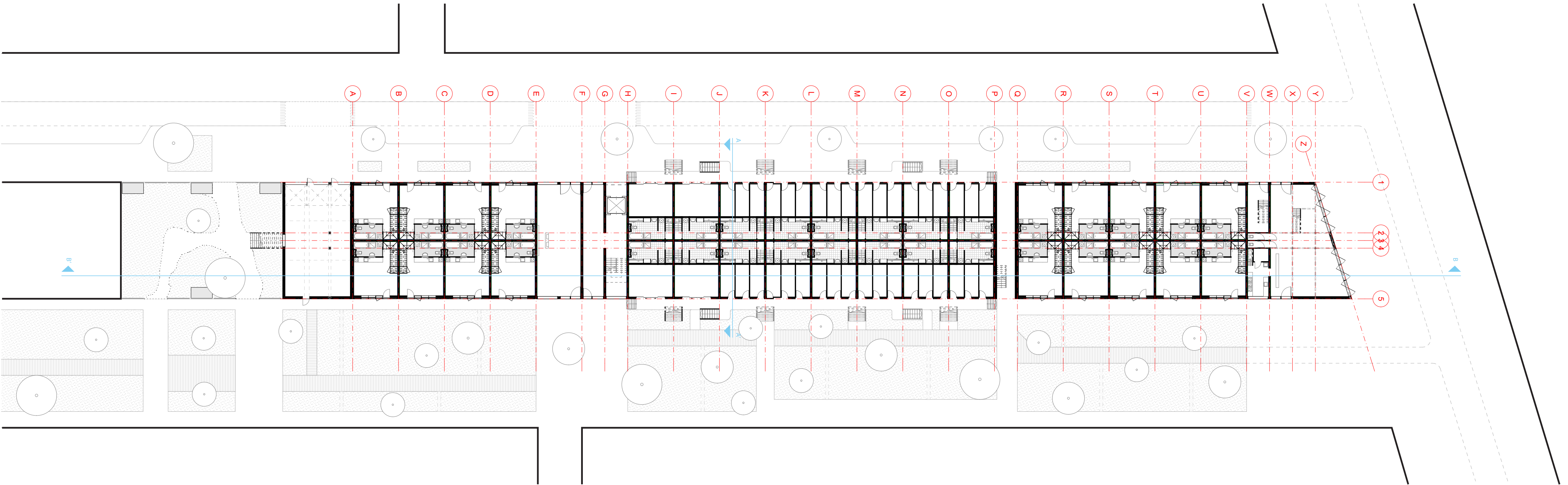
To canal



To underground warm water storage

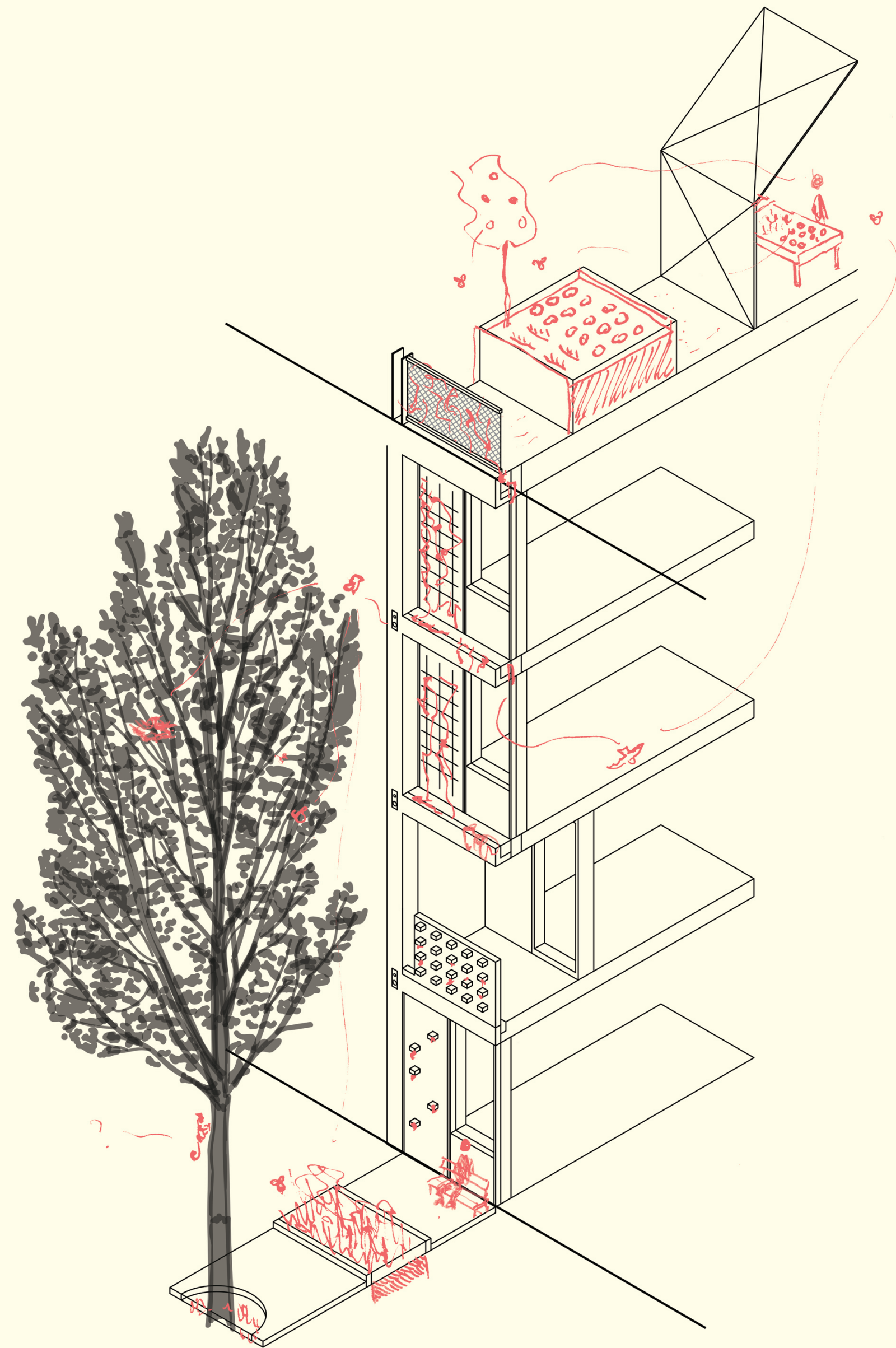


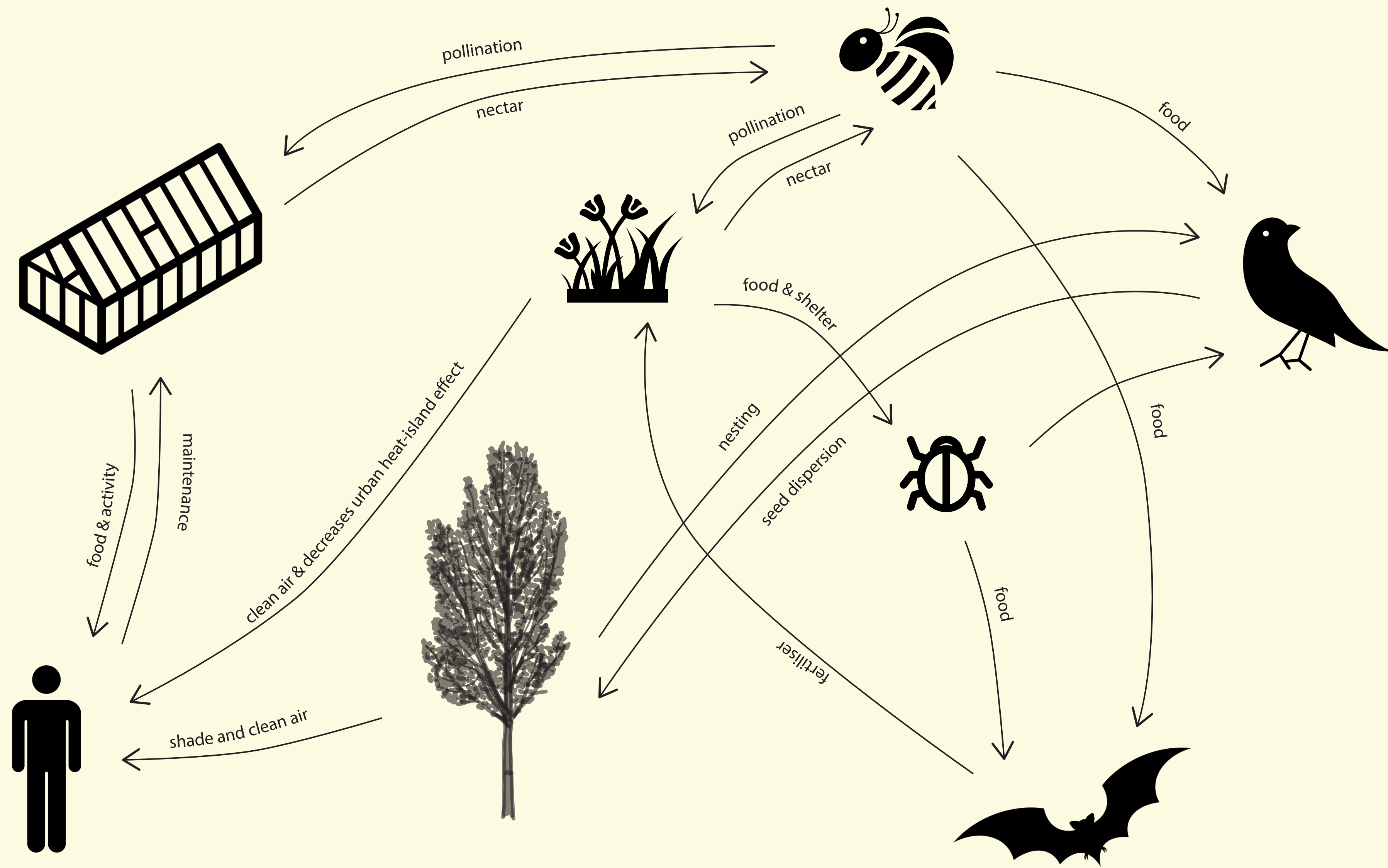




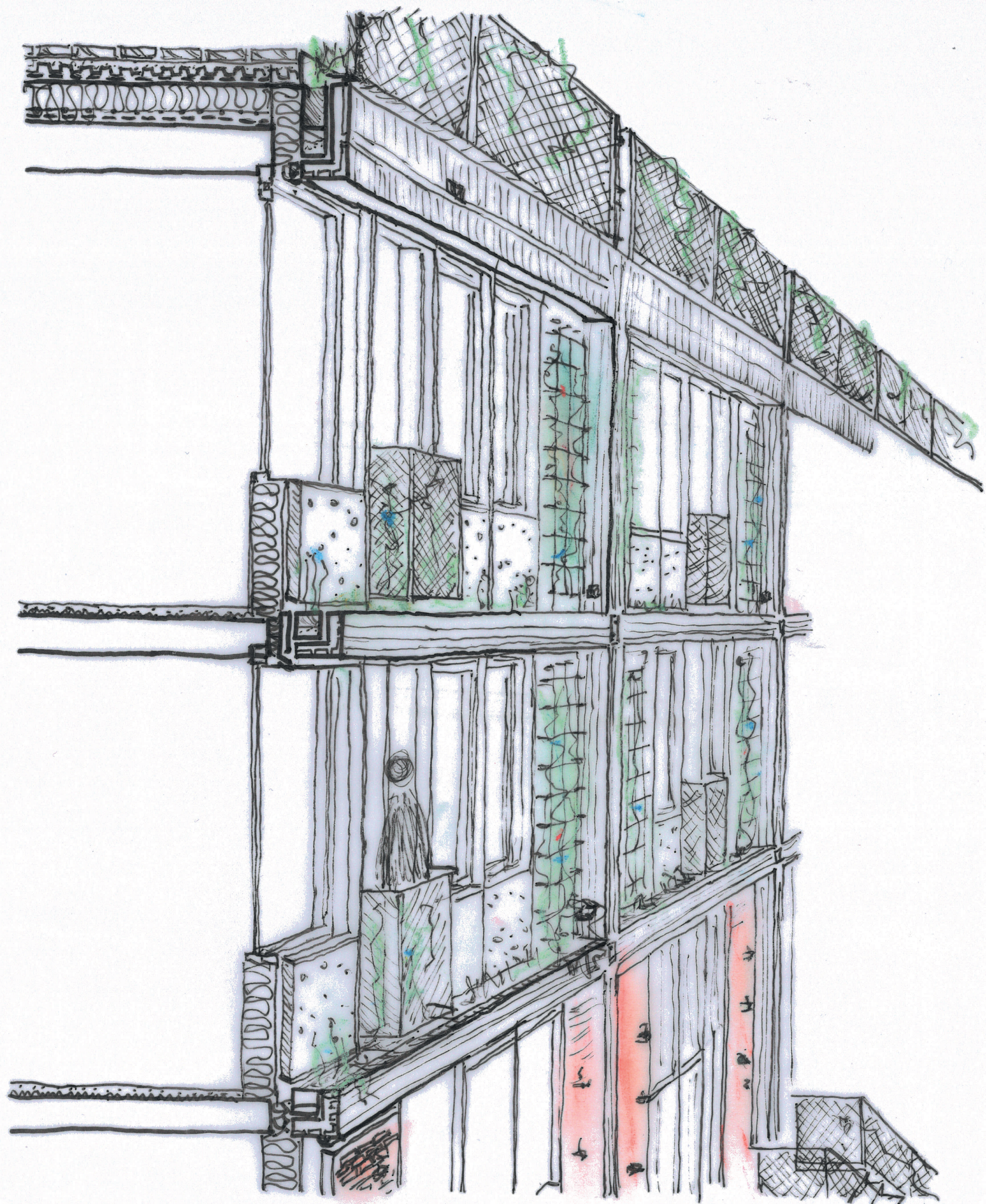
Ground Floor
1:200







Biodiversity in an urban biotope
 The benefits of ecosystem services



How do we want to live
and what kind of buildings
do we need to allow for
that?



