



New Sugar Factory District Masterplan scale 1:600



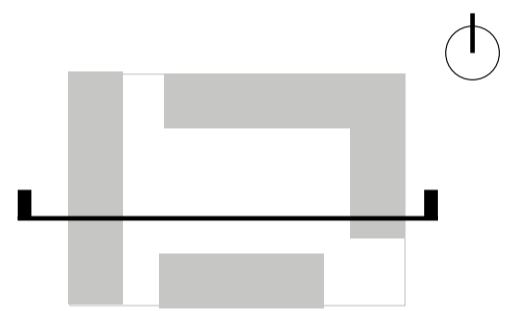


shared living typology

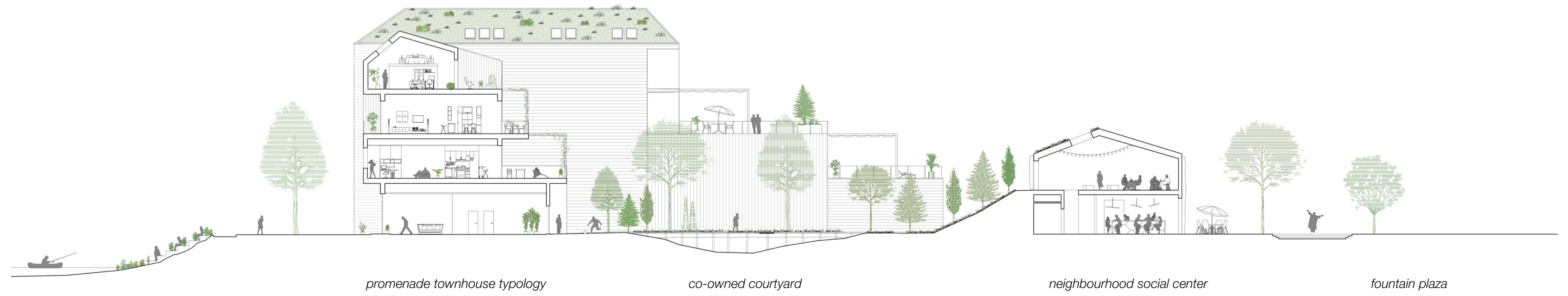
stormwater pond

activities zone

terraced CPO housing



Longitudinal section 1:200

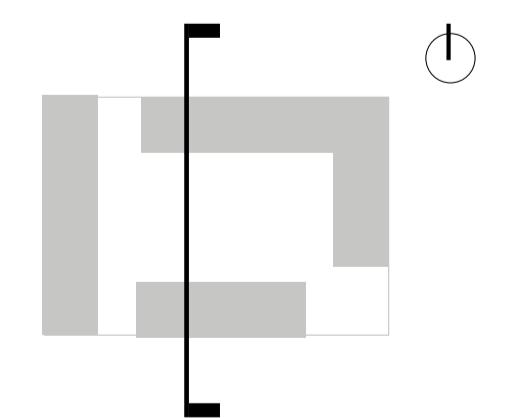


promenade townhouse typology

co-owned courtyard

neighbourhood social center

fountain plaza



Cross-cut section 1:200



rooftop meadow environment



extensive roofs vegetation



green facades planting



extensive slopes vegetation



stormwater pond



extensive tree planting

Bioswale strategy

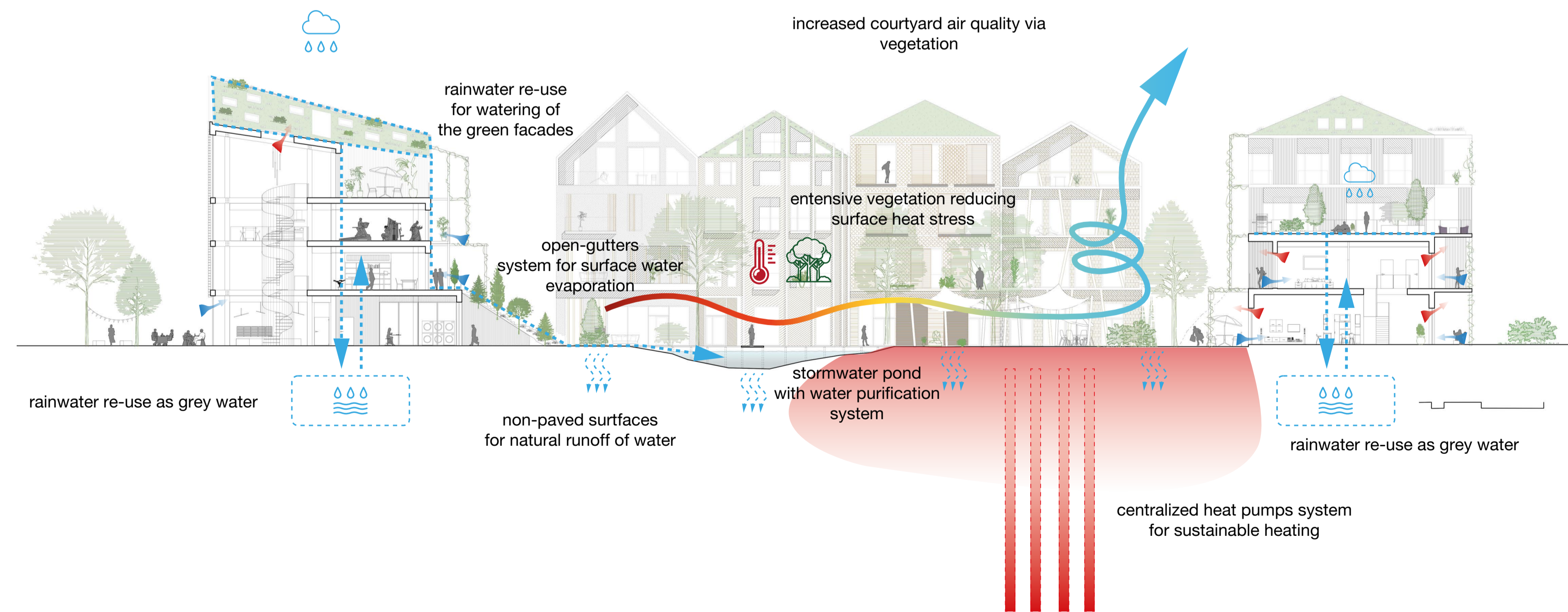
Bioswale strategy

Project approach has brought certain requirements for relation between architecture of the living environment and the natural landscape design. The most appropriate design strategies has been analyzed and bioswale method had been chosen.

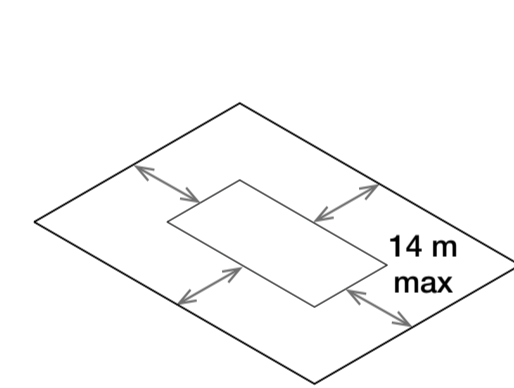
Bioswale is a strategy to decentralize the water retention system, instead of overloading sewage system water is led to naturally vaporate through open gutters and ditches. When this logic is combined with extensive green infrastructure it helps to improve biodiversity levels and quality of living. This system must be connected to the surface waters, and Hoendiep canal situated aprox. 40m from the courtyard would fulfill this requirement.

Climate design

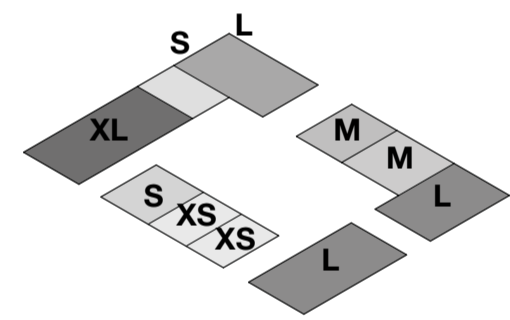
Extensive bioswale to purify stormwater, control climate, reduce heat stress. Applied strategies to re-use rainwater as grey water and evaporate the surface rainwater loads in natural manner with use of open gutter systems, majority of surfaces predicted to be non-paved, porous. Decentralized, locally generated heat system providing sustainably generated heat via use of ground heat pumps system with central unit located within centrally-located community building.



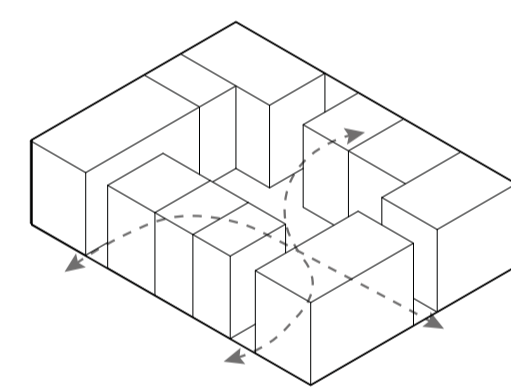
Climate design



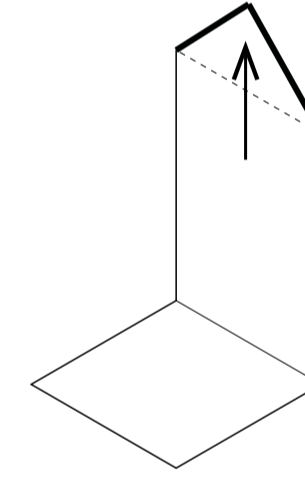
Footprint



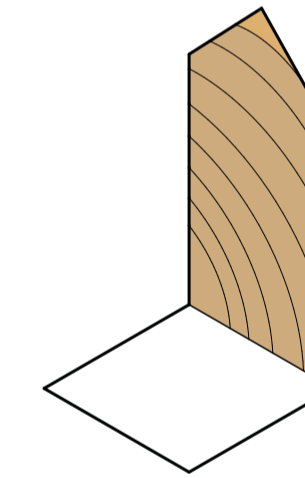
Plot sizes



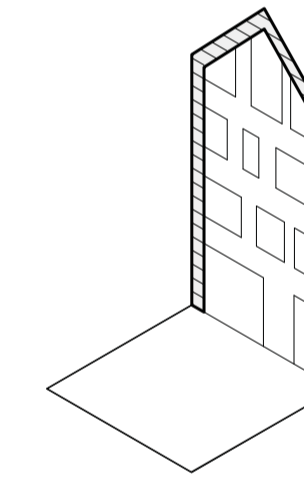
Connectivity



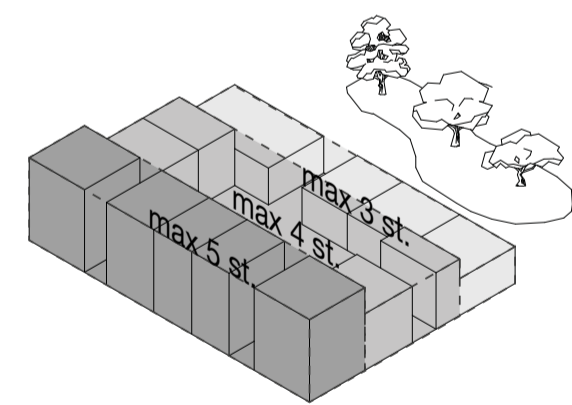
Context related massing.



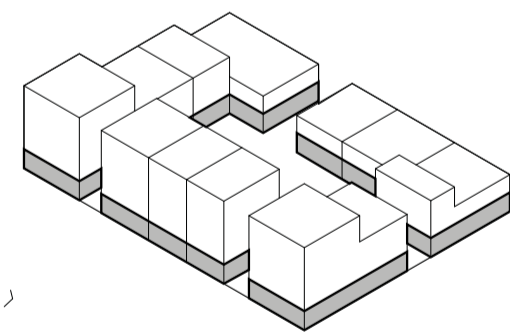
Nature materials exposed.



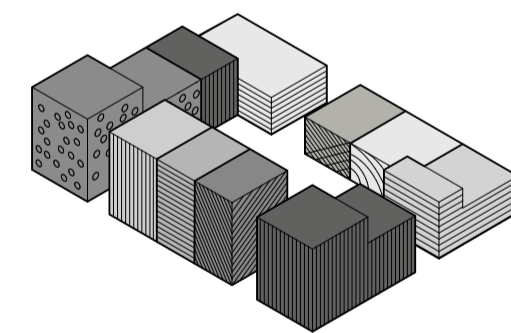
Organised composition.



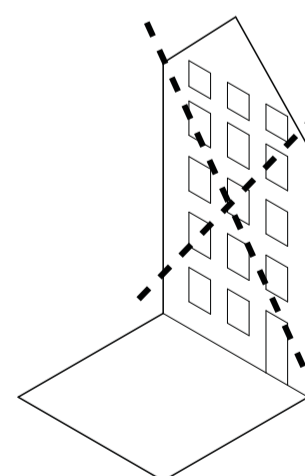
Scale



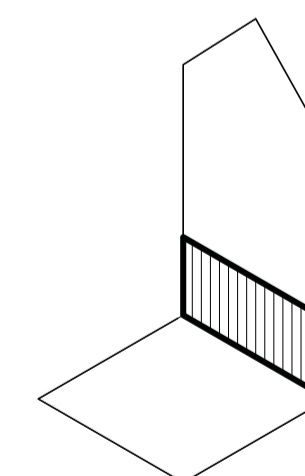
Active plynths



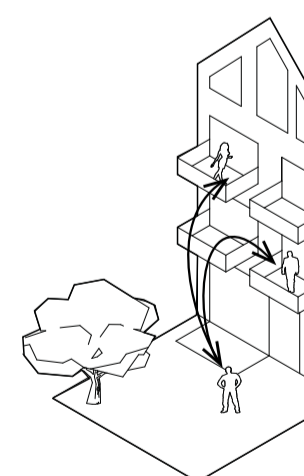
Identity stimulation



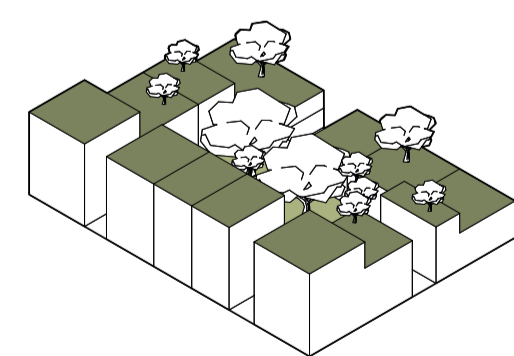
Non-repetitive rythms.



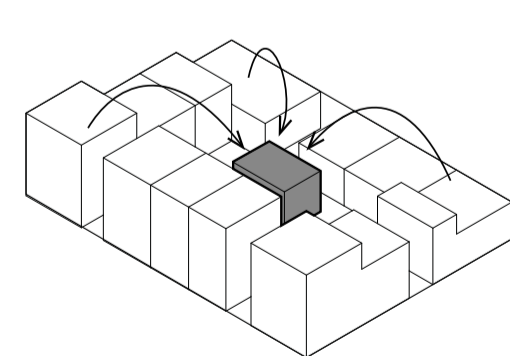
Emphasized plynths.



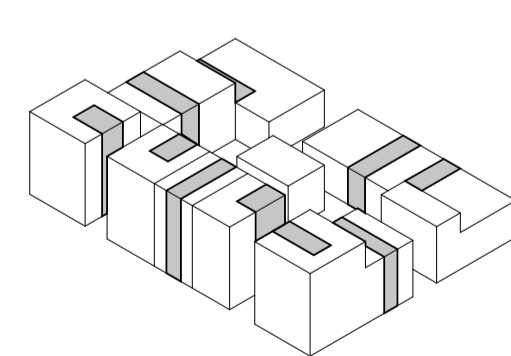
Facades porosity.



Nature inclusive



Community buildings



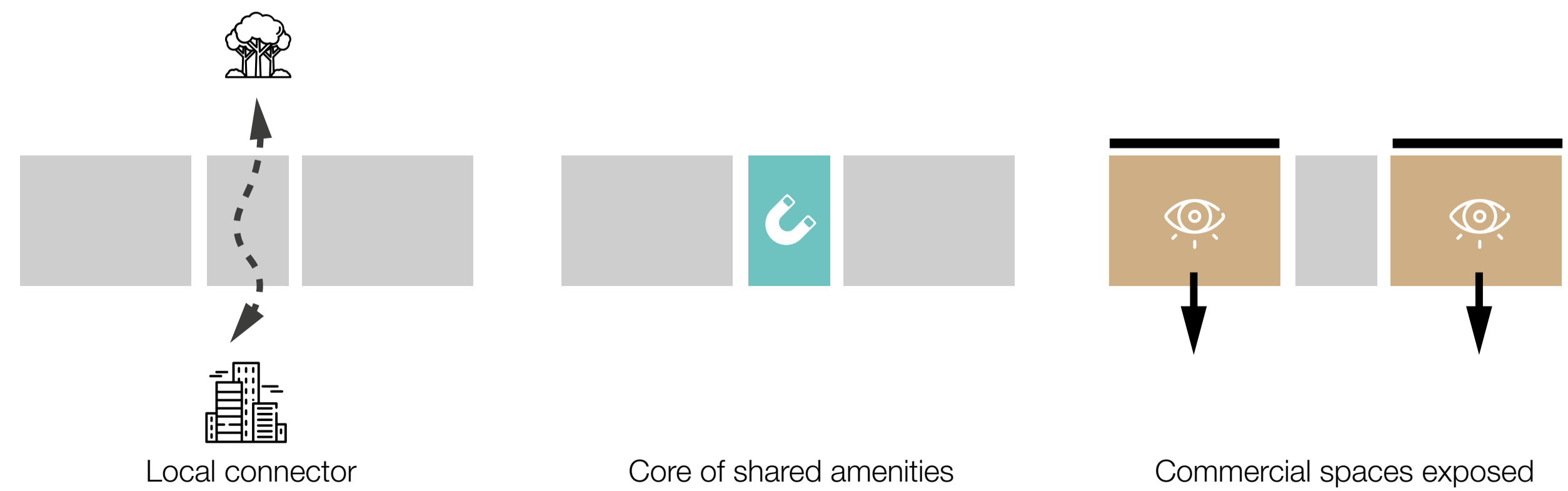
Shared building cores.

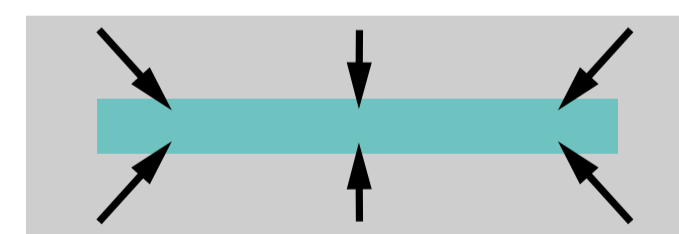
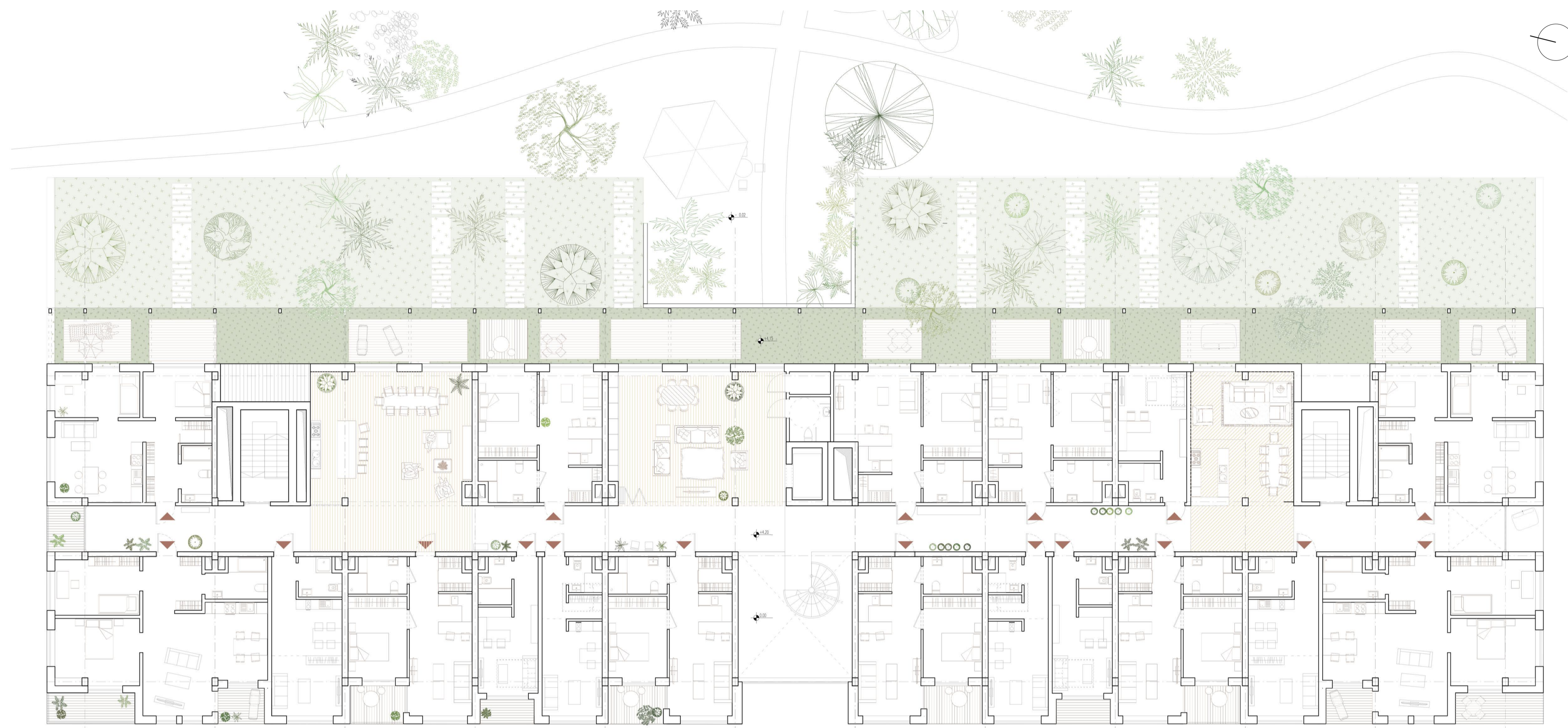
Block rules

Establishment of rules-based system for each of the blocks

Materialisation rules

Rules organising methods of expressing the blend of architecture and nature

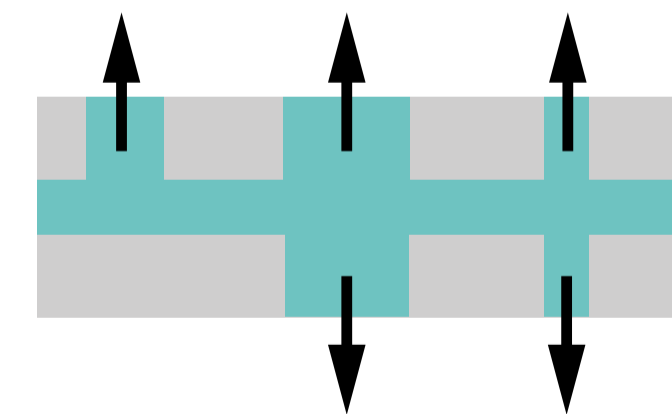




Exploring corridor typology



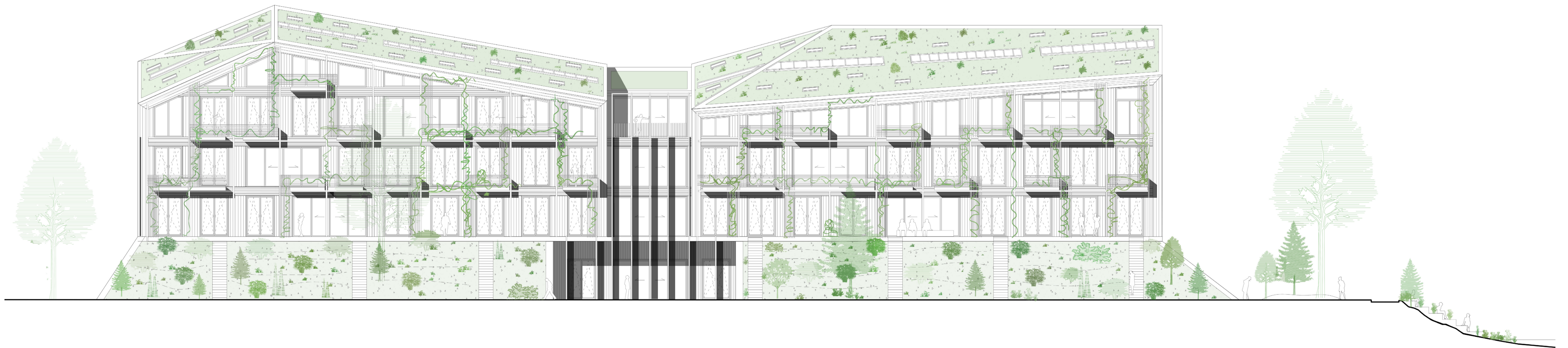
Internal street extended



Community backbone



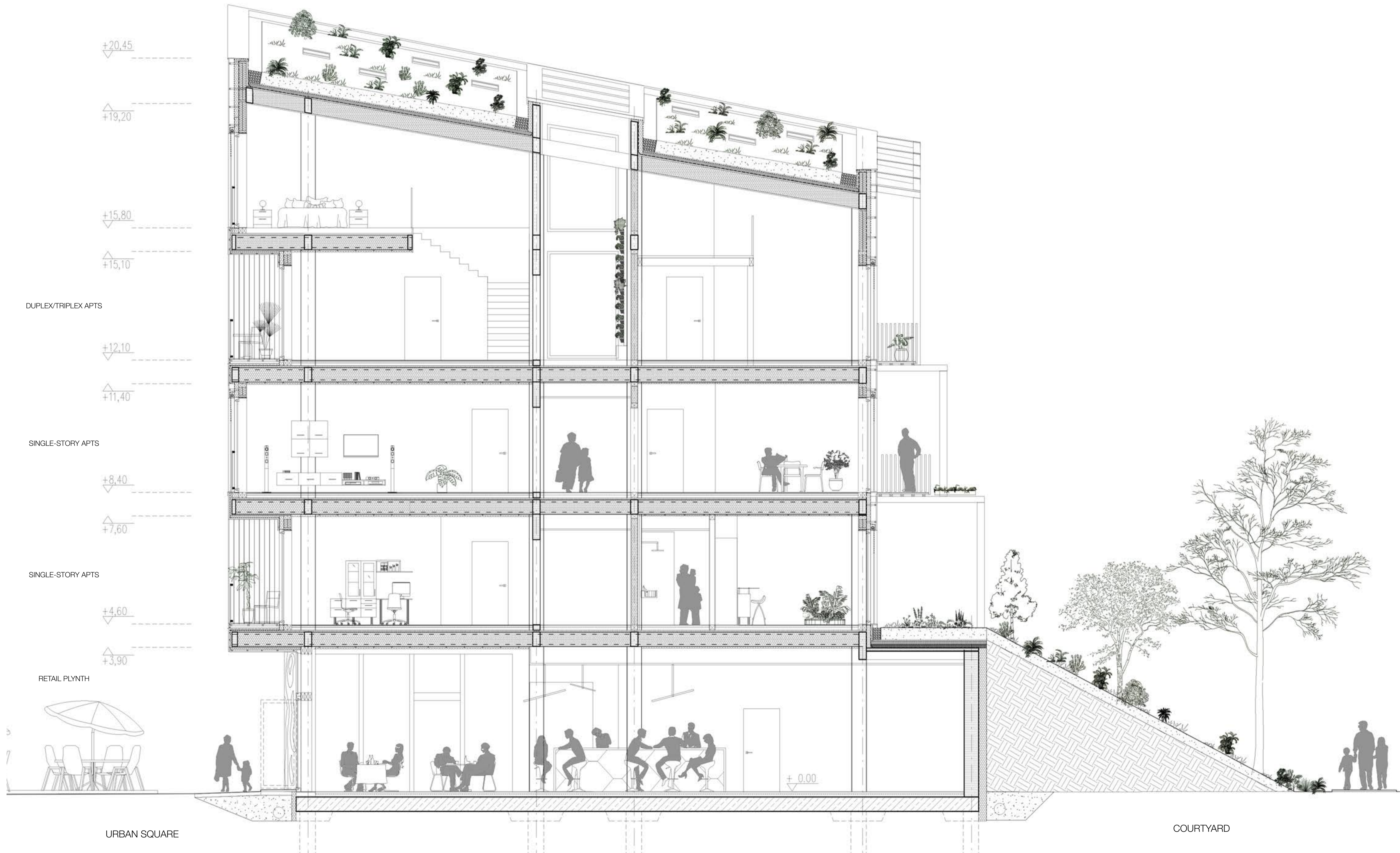
Western facade.



Eastern facade.

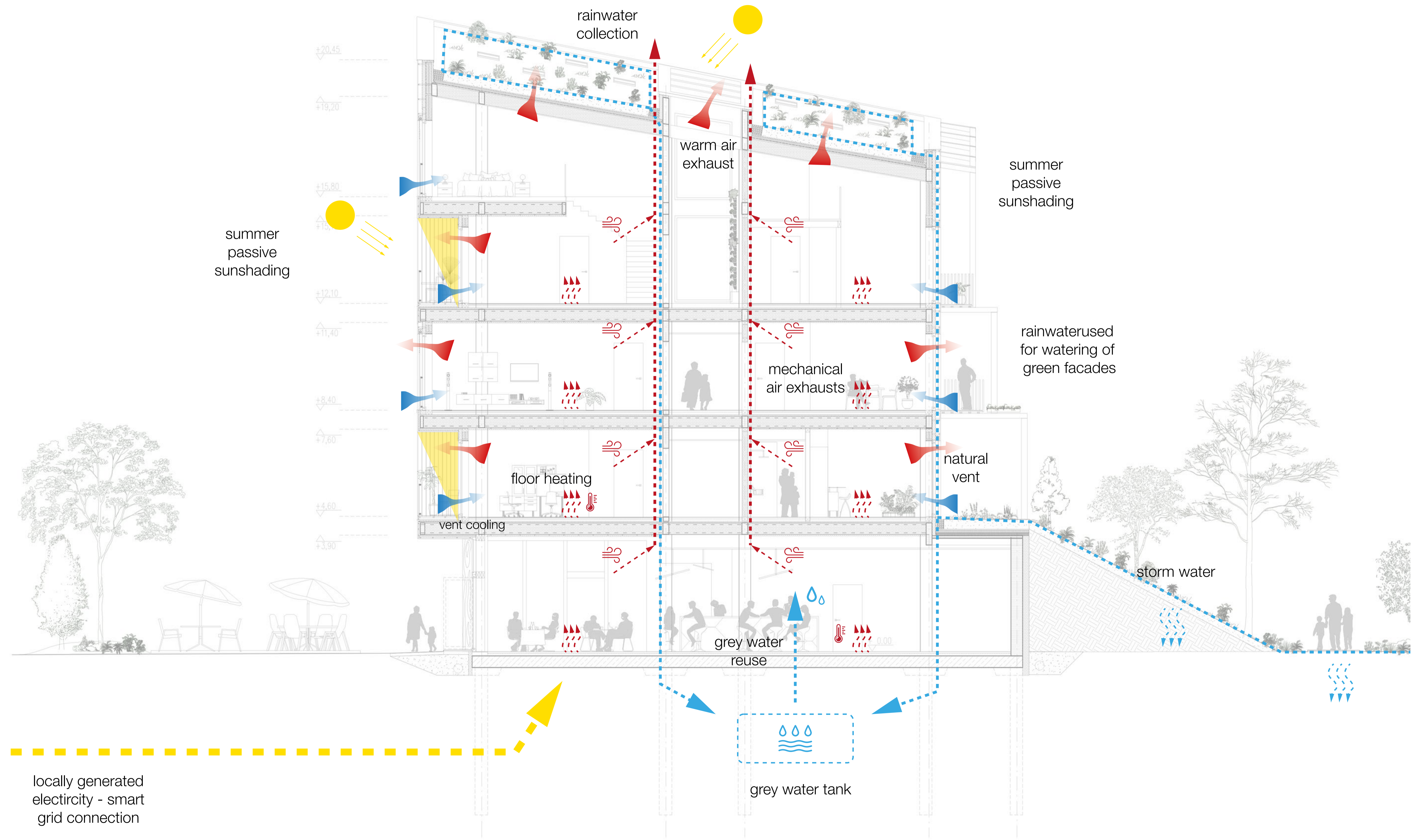


Nothern facade.

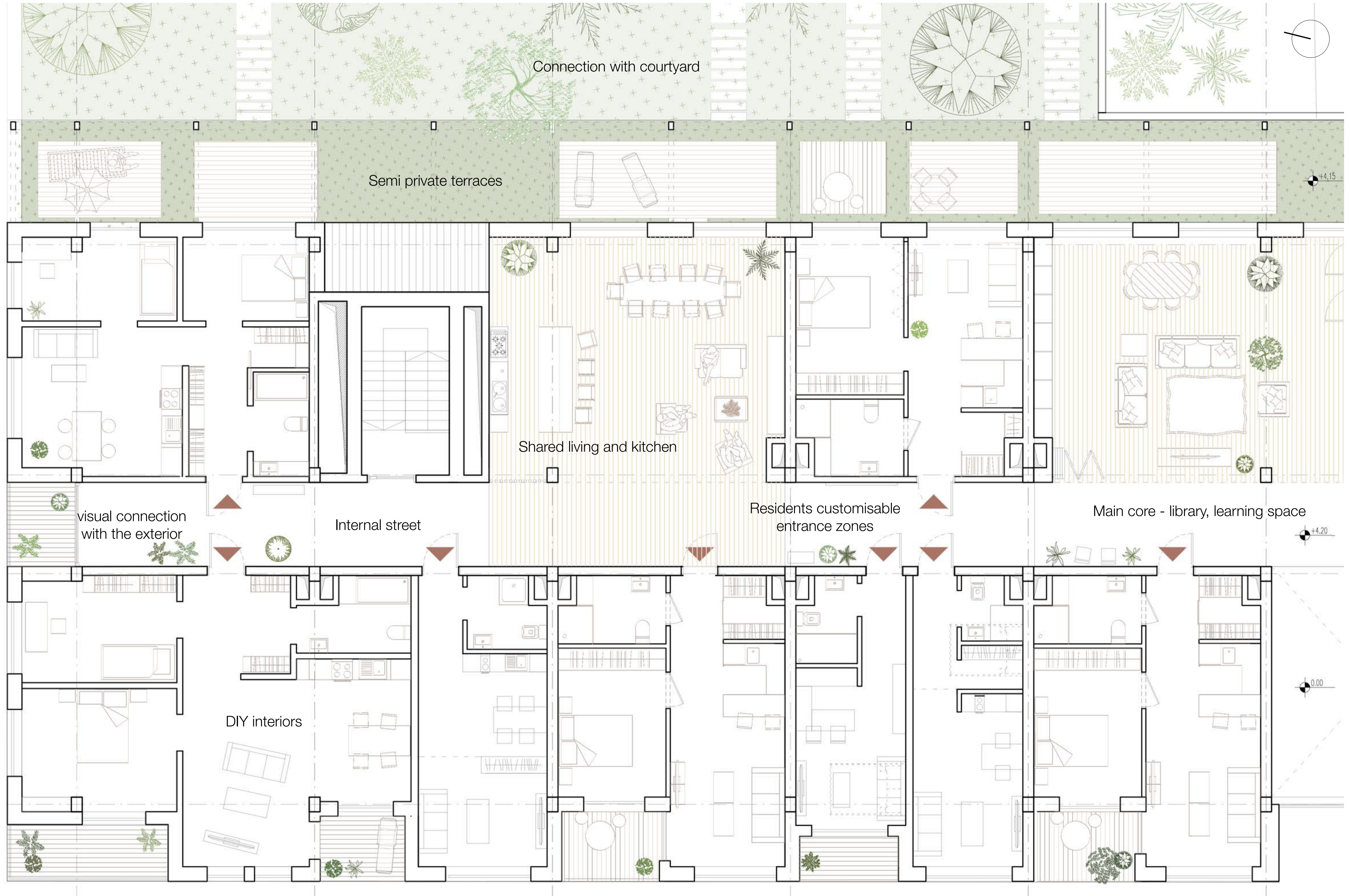


Typical section

Floor heights relates to the programme, elevated ground floor with retail, followed by residential levels opened towards courtyard

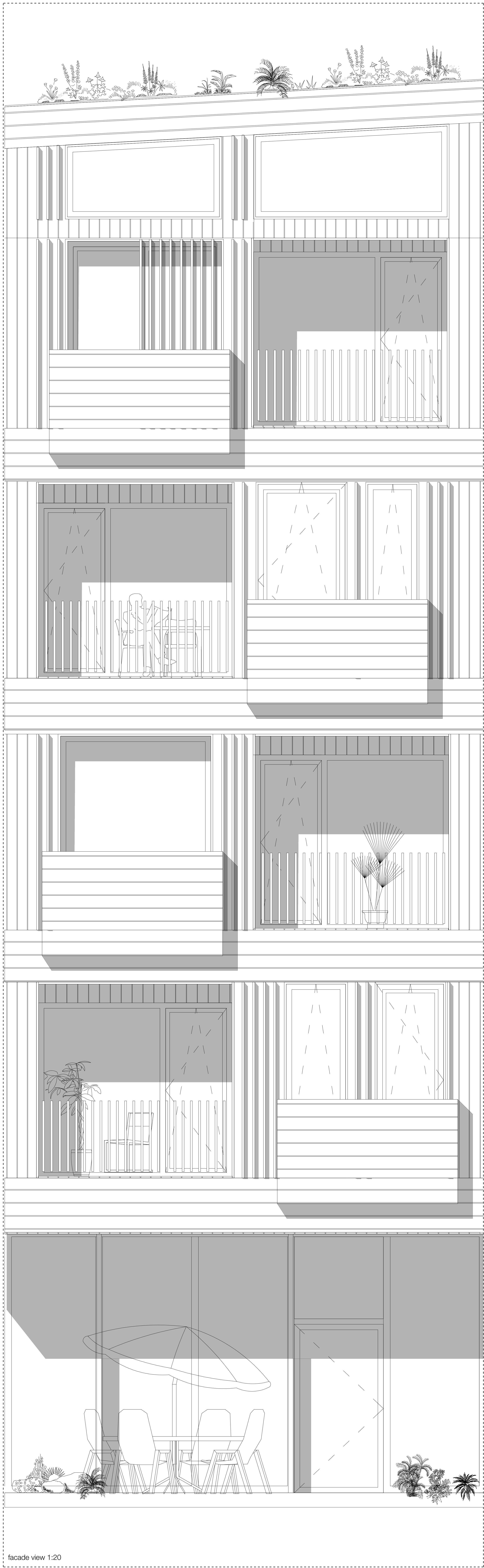


locally generated
electricity - smart
grid connection

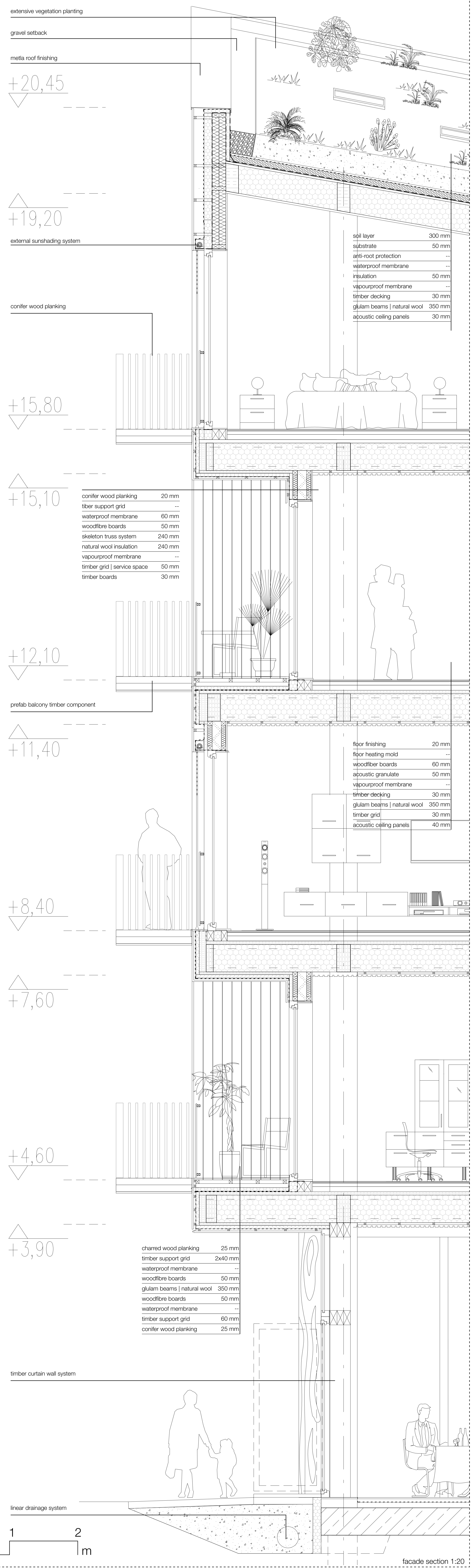


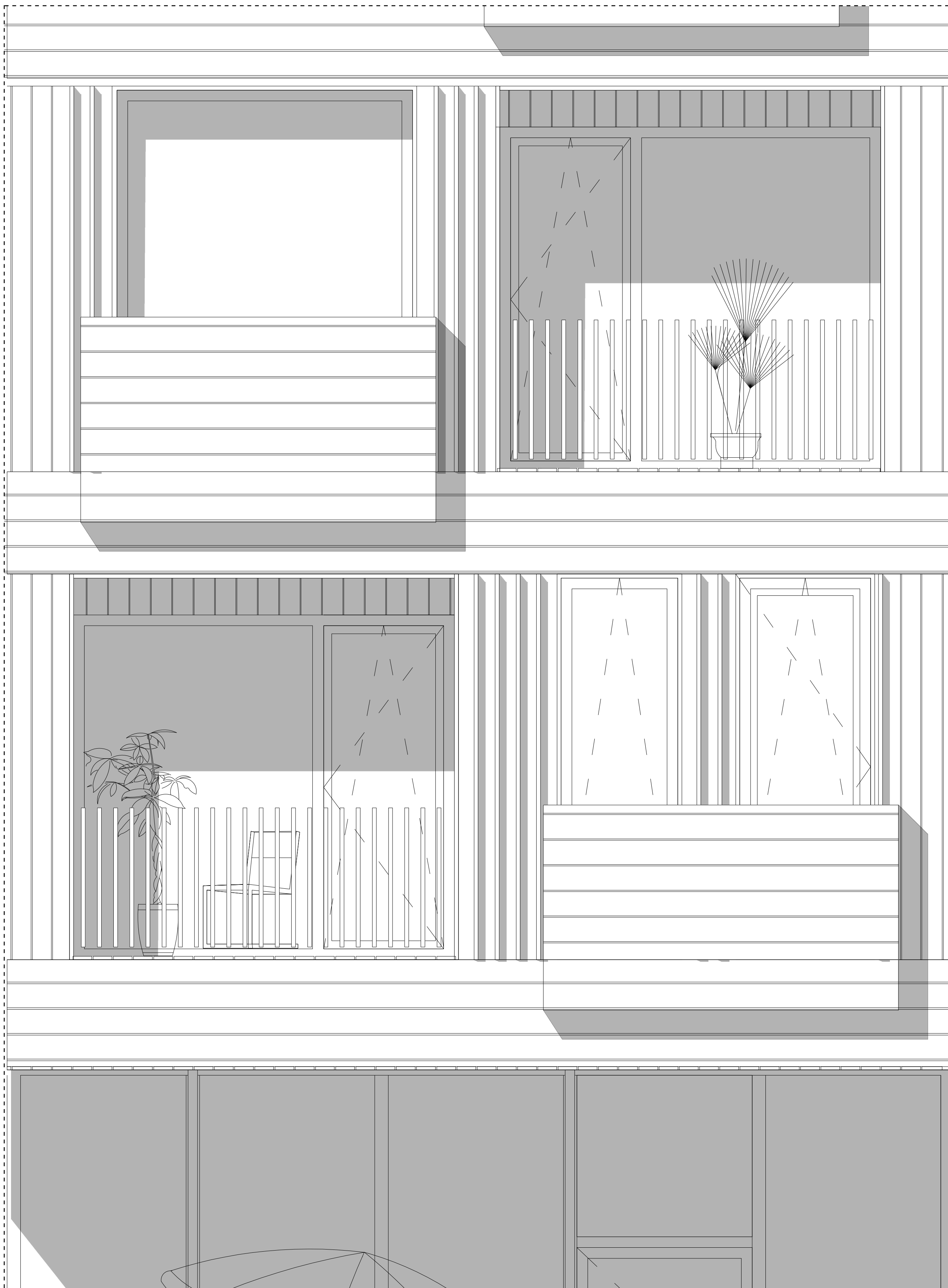
Common room

Organized between individual apartments, open spaces supported by functional „service” spaces.

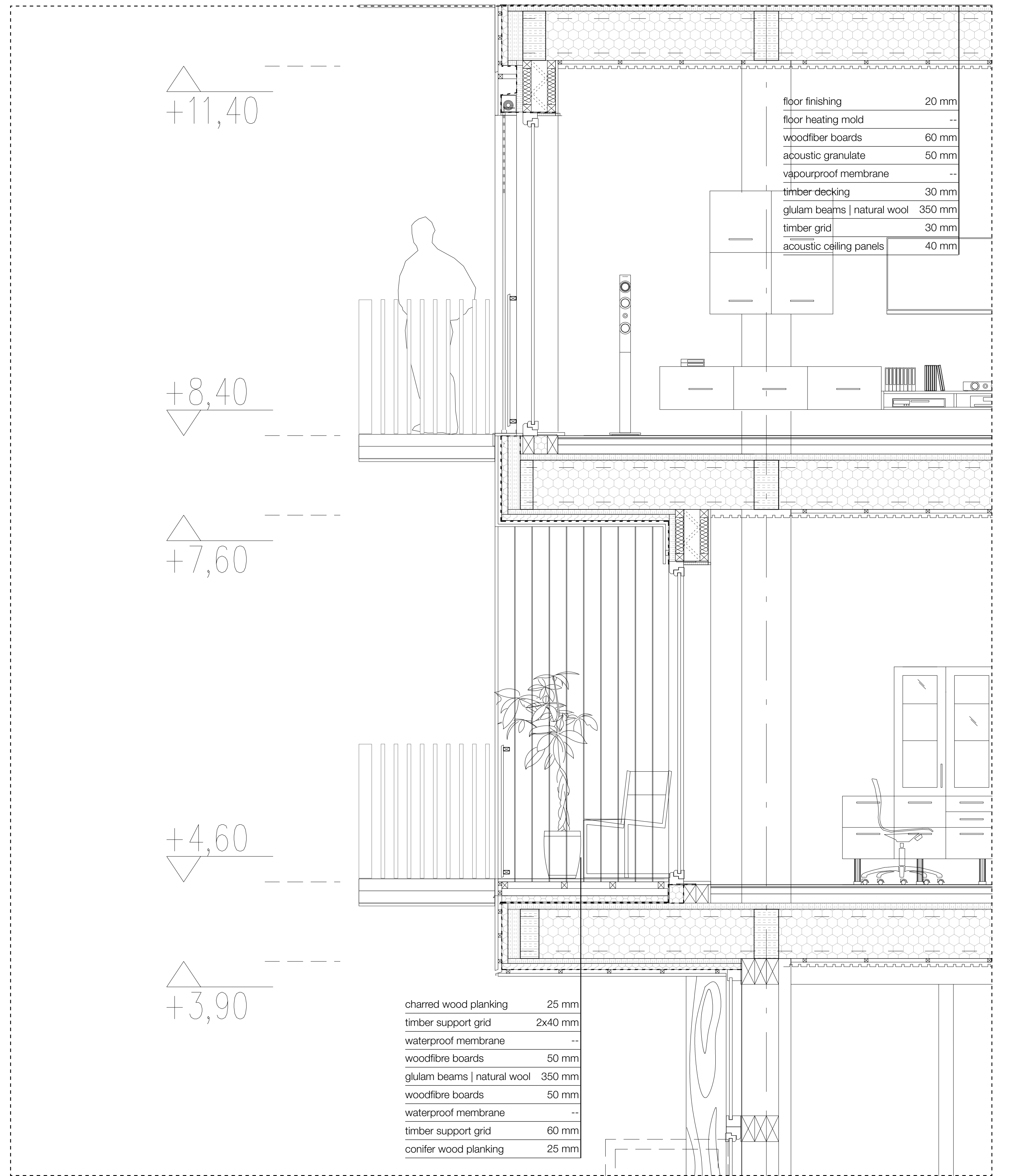


facade view 1:20

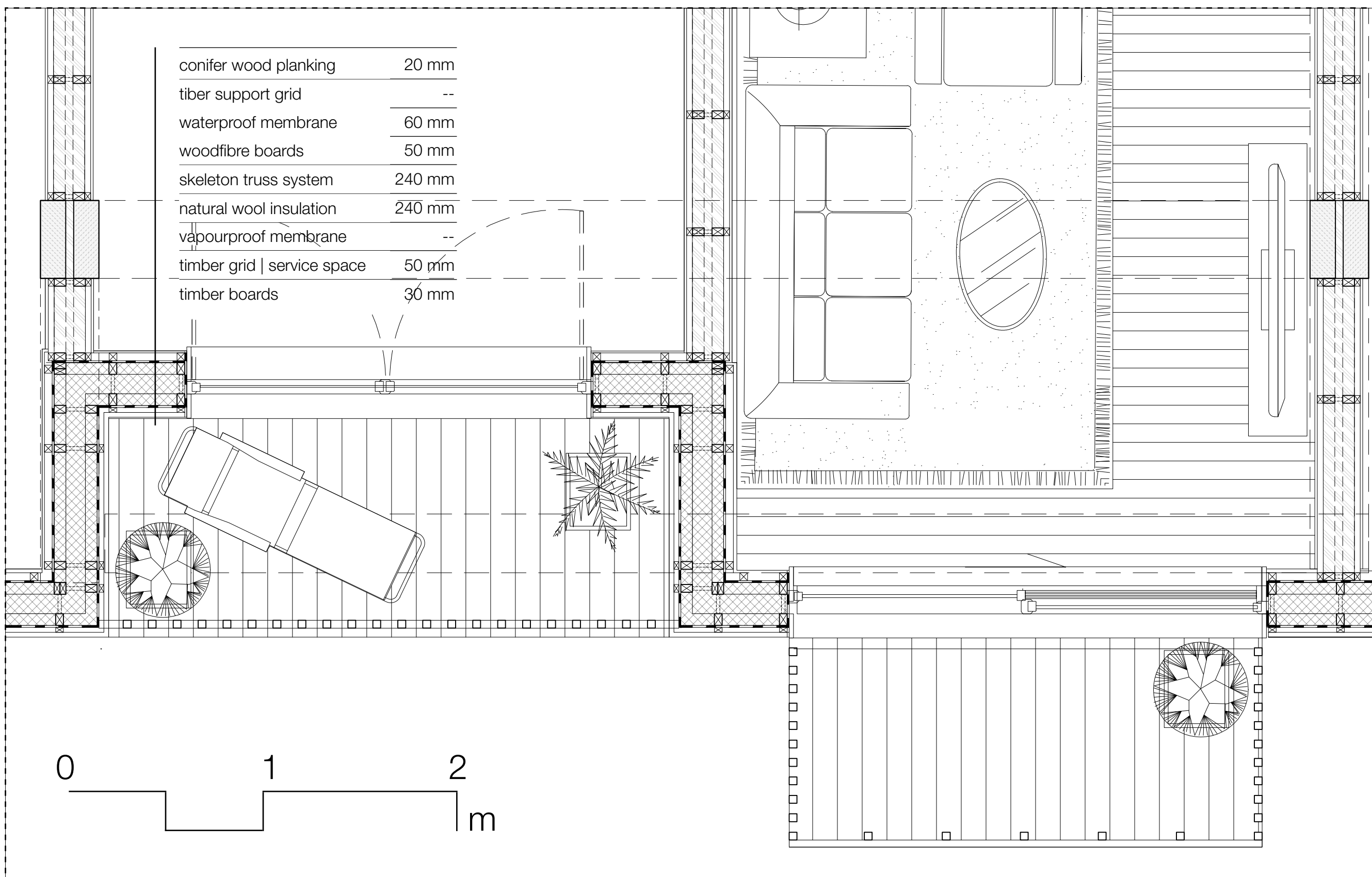




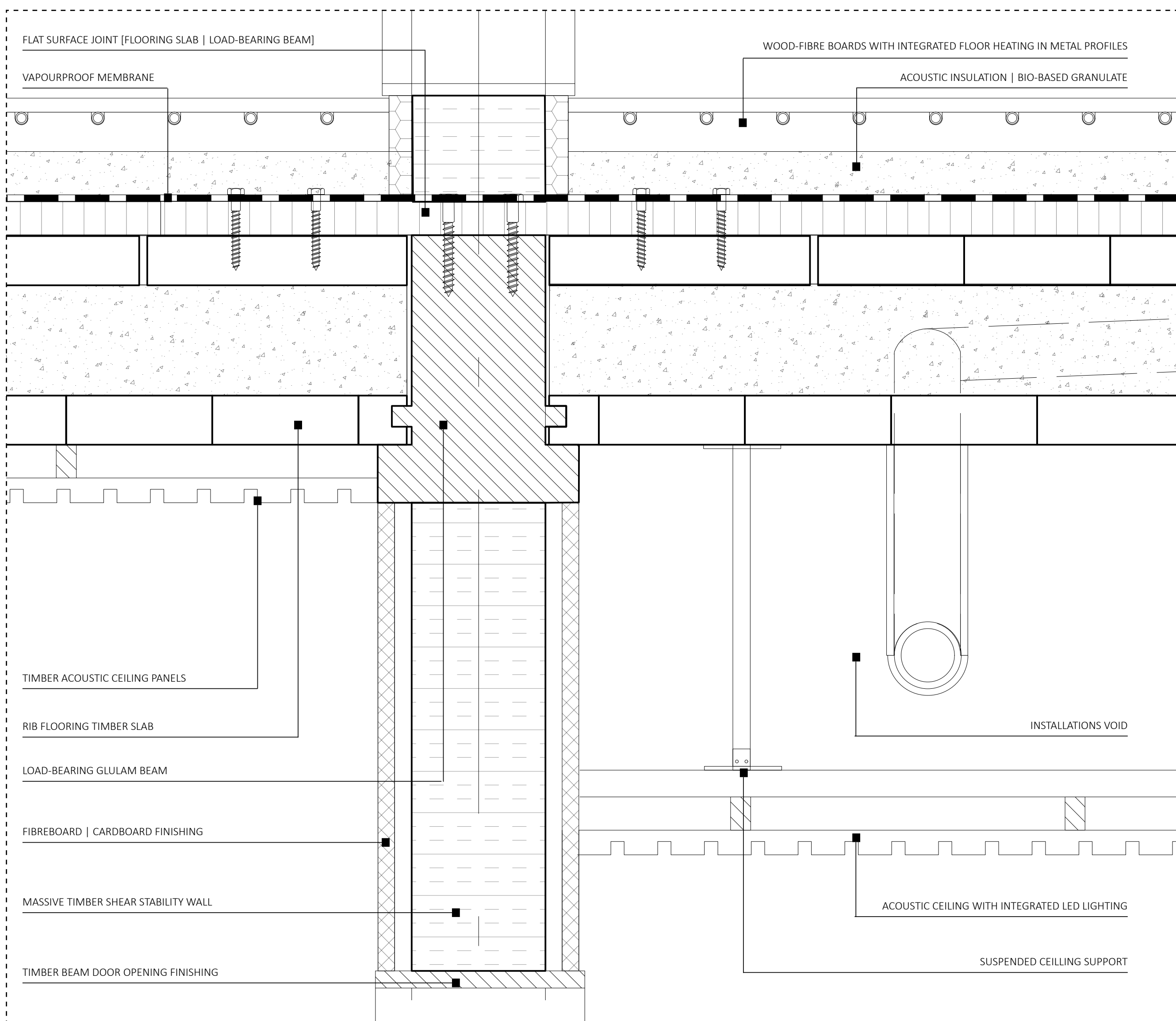
facade view 1:20



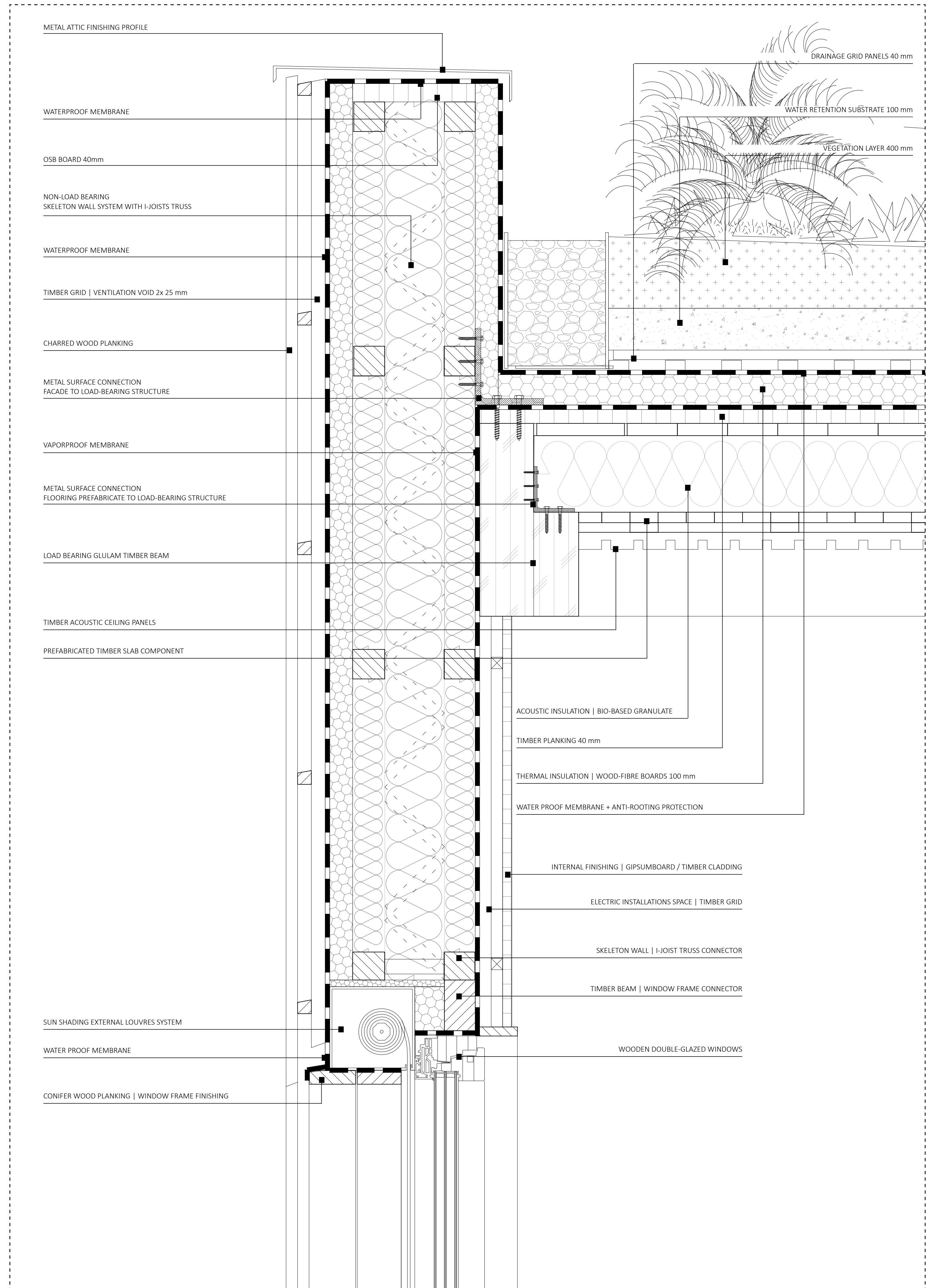
facade section 1:20



floor plan 1:20



detail flooring system to structure joint 1:5



facade detail D2 1:5