

MANIFESTO

Sector 34, Sub City Center: A scaled synthesis of intended urban Harmony of Chandigarh, a perfect atlas of the town planning modernist principles of Hierarchy, Function, Control: efficient circulation by the means of a progressive system of streets, to make the modern citizen able to drive under the very basement of every building; commercial building north, cultural activities in the center; residential spaces south, the sharp repartition in partition with different functions as the exaltation of a rational urban life led by the ever flowing hours of the day and the related supposed specific rational activity; the Grid, as a mean to establish efficiency and Modernity within the urban life, to define the Formal as Good preventing the contamination with the Extra, intended then as parasite. And then, never ending linear parks, over dimensioned open space to border the machine, to seal the coherence of an enlightened plan.

Everything in the sector is the reproduction of a valuable ideal, everything at the same time is the evident expression of the basilar contradictions that lie within the universal logics of the Modern movement. Rigidity, Disaffection, Void the sector is a victim of the same principles that were supposed to foster the growth of the Sub City Center: Rigidity prevented appropriation, Misappropriation led to abandon, Abandon introduced Incompleteness and Void.

Sector 34, Sub City Center: A scaled synthesis of the problems of the intended Rigidity of the modernist town planning. An inspiring mix of challenges for the formulation of effective reactions to extricate the sector; and in a broader scale the very city, from the Modernist impasse of today.

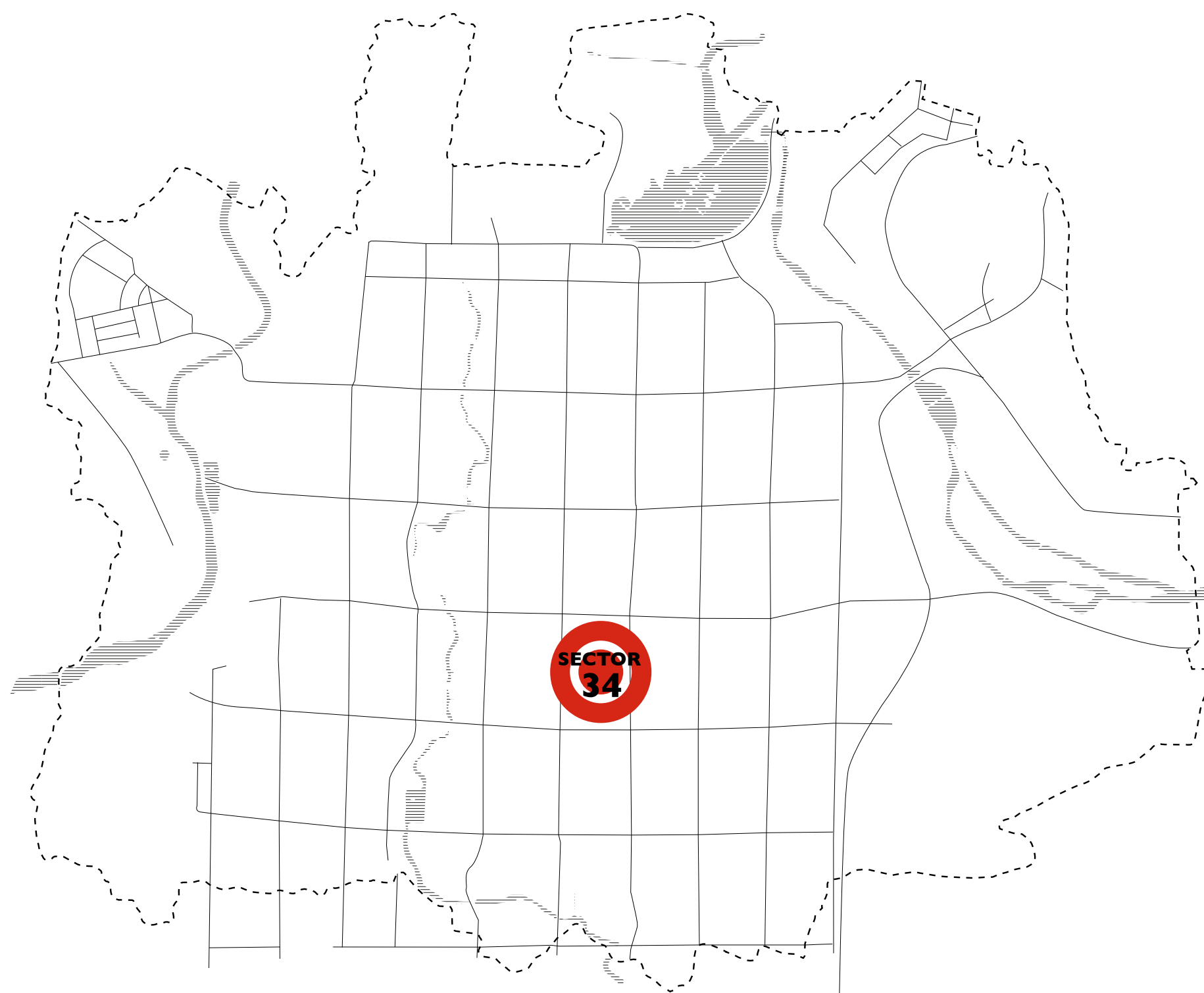
The design hypothesis intends to cope with the contemporary weakness of the former plan offering a strategy informed by the very qualities of the City itself. Working on counter spaces, or what can be identified nowadays as the leftovers of the modernist envision, we aim to elaborate a scheme capable to achieve the necessities of a growing city such as Chandigarh, the desire of higher density even within the original grid, the research for spaces of appropriation, the need for the expression of a strong identity, local and modern. A design approach that focuses on the re-elaboration of Chandigarh's innate logics of permeability and porosity and modernist ideals of Hierarchy and Function, but now switching the attention to the informal use of the Grid instead then the Formal boundaries defined within it. In our intentions, a scheme that respecting the Grid, working on the Grid, will re-establish a connection between the modernist Plan and the fullness and harmony required by contemporary urban life in the Hindi culture.

Overlaying the informal use and the ways of appropriations of these spaces to the Formal plans, we were able to draw a basic structure capable to develop new urban scenarios based on the logic of the pre-existing modernist axes, acting within the lines of the Grid but respecting at the same time the seeds of spontaneous circulation and of the shy borders appropriation, intended as expression of a process capable to foster logics of Permeability and Porosity based on the very people way to live the territory. What we arrived to define as our structure, the Cartesian cross and the platforms, is nothing more than an instrument to allow these process to sprout all over the sector area.

And if this simple even if meaningful element is intended to answer to the modernist call for the rationality of an urban scheme, the Function drama of abandonment cannot be solved without introducing the figure of the Hybrid. No longer sharp borders, but the gradual passage from one function to another; in a combination of uses that defines hierarchy of spaces and the variety of the built environment, integrating what was supposed to be set apart. So there we are, a scheme more than an individual project, made of crosses around which the hybrids are grafted, where business spaces and informal commercial areas enclose and define open spaces in a succession of public, collective, private and all the in-between shades, allowing all the realms to coexist, to be permeable, to be porous, safeguarding each one space, each one differentiation even within integration logics.

In order to start, we take the grid, and we analyze the relation between the Building and Scheme, the field where we have to play our battle, the space where the challenges arise. It doesn't matter which space, we only care that it's a counter space, the leftover from which we can question and improve the original plan. Harmony is achieved following the direction fostered by the context: the very first operation, ironically, is the camouflage with the existing commercial logics everywhere present in the district. A first layer of commercial defines the boundaries of the cluster; harmoniously suggesting a continuity with the surrounding shopping galleries and therefore fostering opportunity for the visitors to explore the commercial space within the cluster. A diversification in the management and dimension of spaces is occasion to achieve diversification of activities, allowing formal business as the settlement of a bazars and local markets as well in the two main axis of the plot, where even simple shelters appositely designed become opportunity for appropriation for the informal seller.

From each side of every complex a system of stairs and platform gradually invites the inhabitant to explore furthermore the structure of the cluster; developed on the top of the first layer of commercial stores. Ramps leads to the first level at 2 mt of height, where the presence of hybrid units gives the opportunity to open workshop or workroom connected with the apartment while the location produce attractiveness and stimulate movement. The 2 mt high platforms lead to a second space, 1 mt higher; where only dwelling are located and all of them are facing a square which dimensions and materialization give a feeling of collectiveness and protection. The most intimate part of the cluster is then accessible from there: always connected with a rapid as efficient circulation system, the core courtyard constitute the more private open space of the project, thus the more susceptible to appropriation, at the same time being a means of porosity, allowing passage through one collective space and another; from one side of the cluster to another; from a psychological indoor and a physical outdoor. A second layer of dwelling is accessible with an open galley, covered with a pergola to create shadows. But even the distance with the ground, these apartments are closely connected with both the public and the collective realm, according to the different needs of the day. Two enclosed courtyards are offered in most of the dwellings, providing a private safe zone for relax or meditation: but because of the flexibility of the scheme, to the owners chance is given to extend their own dwelling, getting rid each time of a small portion of the personal courtyard, to add rooms for new members of the family or just to upgrade the unit. Schemes are given to show when the growth process is allowed horizontally or vertically with the realization of duplex. The cross shortly before mentioned will lead this evolution, providing basic structure, connection with the facilities and services throught unique cores of pipes, This simple element will shape the cluster; and dwellers will connect it with the vibrant dynamic of Hindi lifestyle.



SECTOR 34

SUB CITY CENTER

AREA INFORMATIONS

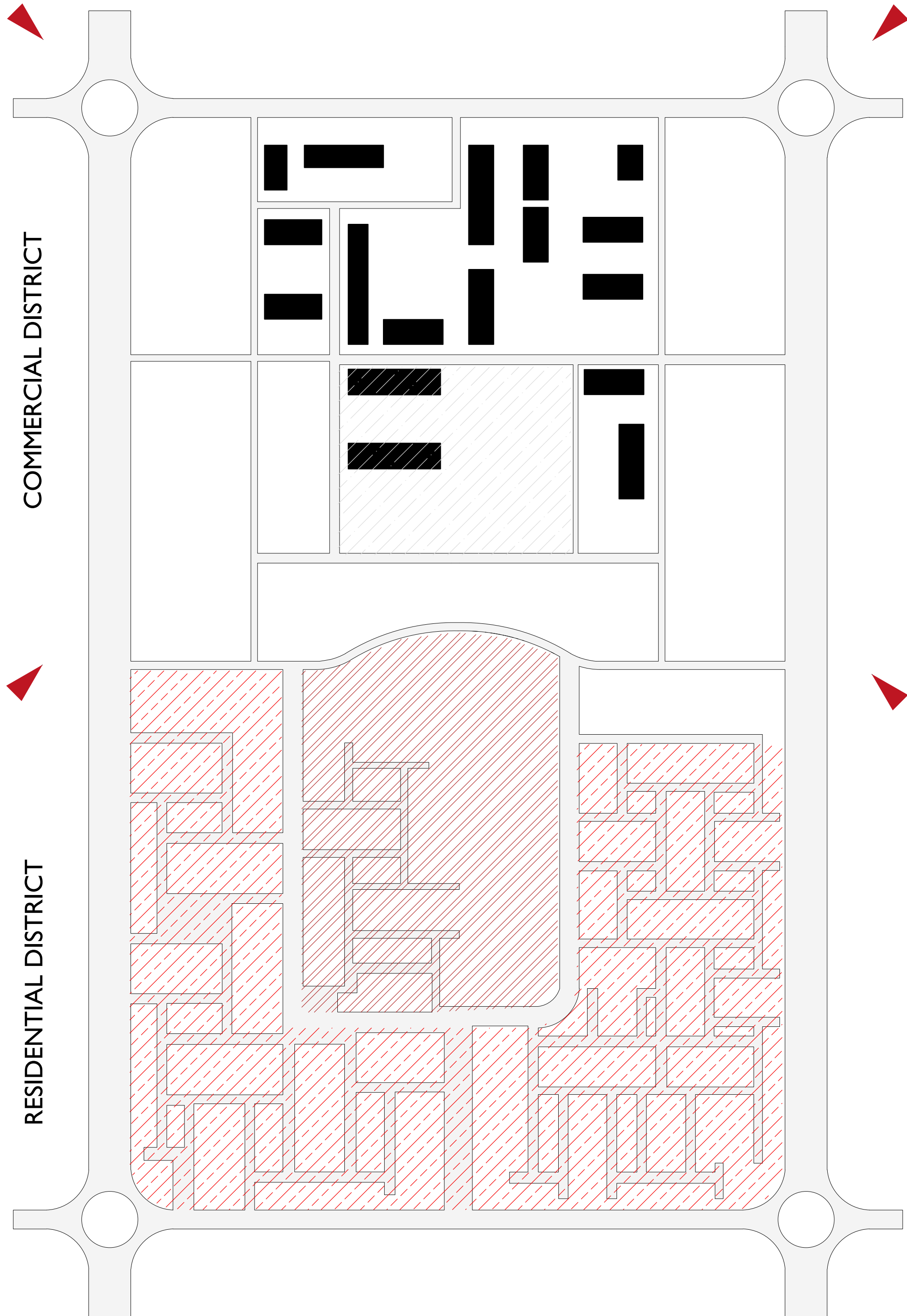
AREA OF THE SECTOR	924 800 m ²
RESIDENTIAL GROSS AREA	432 636 m ²
EXISTING DWELLERS	5015 people
DENSITY - POPULATION	46 people/he

DESIGN DATAS

AREA OF THE PLOT	7 575 m ²
COVERAGE	0,61
BUILT AREA	9 528 m ²
FLOOR AREA RATIO	1,3 (general) / 1,8 (plot)
RESIDENTIAL GROSS AREA	5 082 m ² + 1 824 m ²
NUMBER OF DWELLING	102 units
ESTIMATED DWELLERS	408 people
DENSITY - POPULATION	280 - 560 people/he
DENSITY - DWELLINGS	70 units/he

SECTOR 34

SUB CITY CENTER



COMMERCIAL DISTRICT

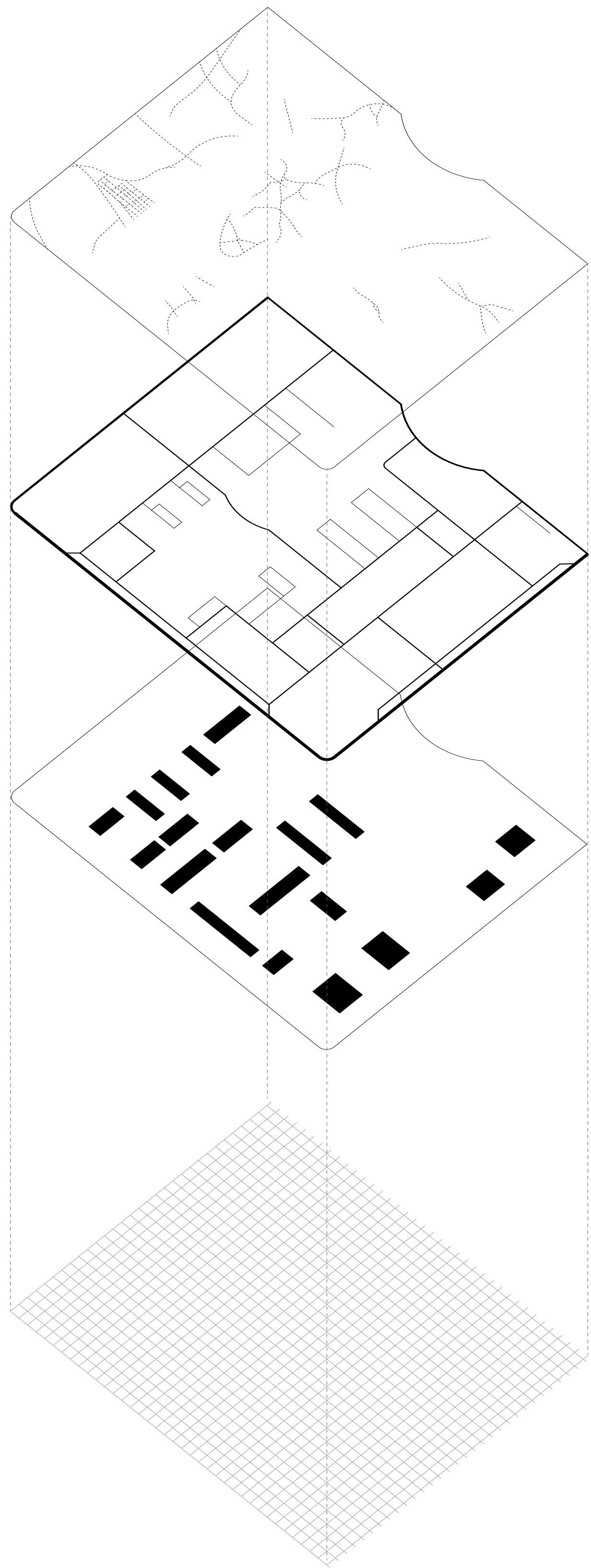
RESIDENTIAL DISTRICT

Cultural (planned)

Dwelling

Institutions



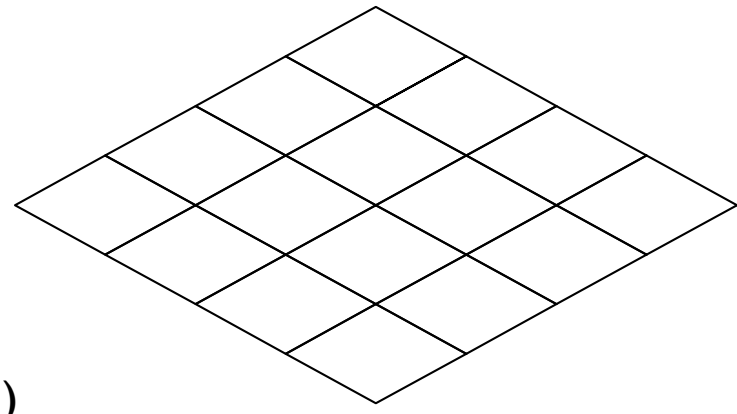


Movement

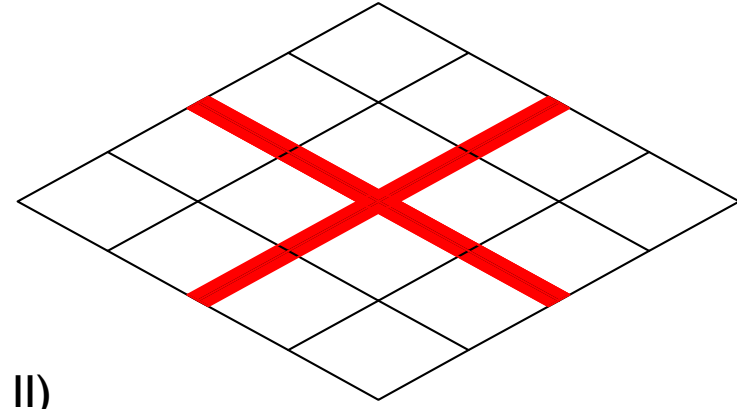
Circulation

Mass and Voids

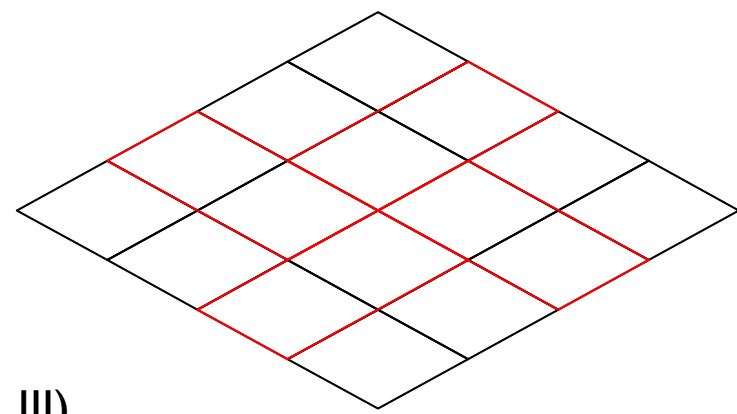
Grid axis



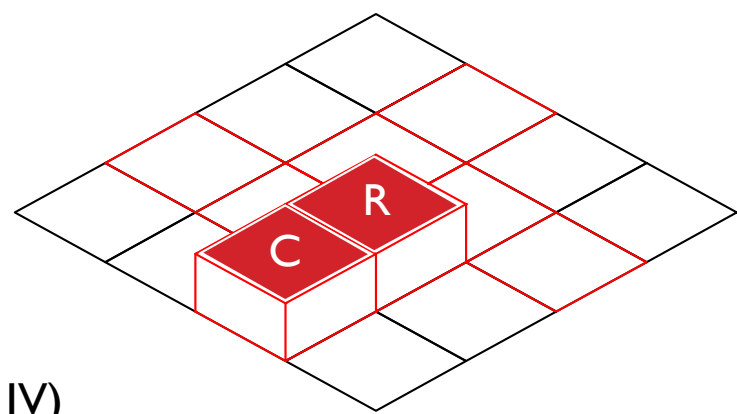
I)



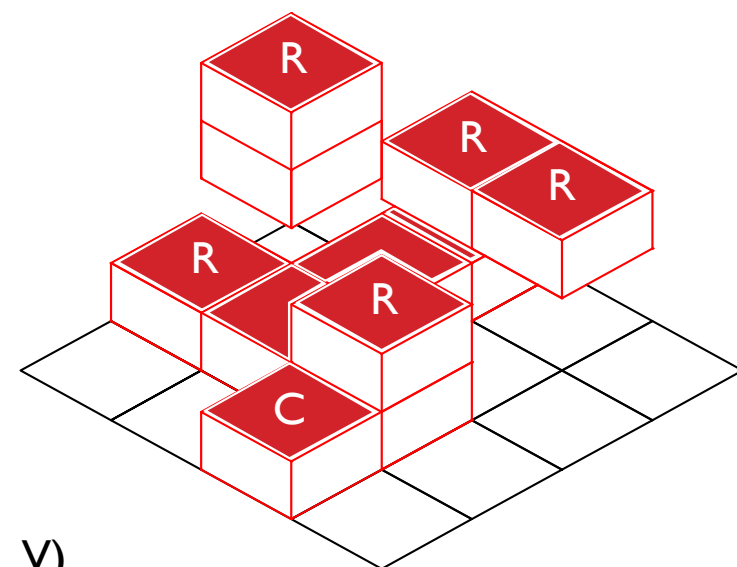
II)



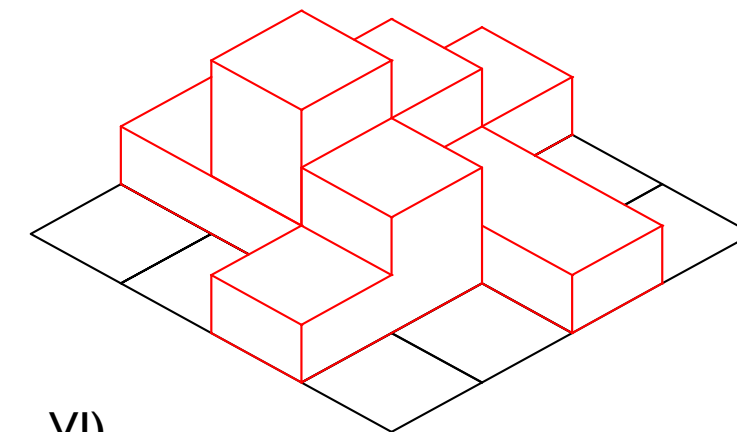
III)



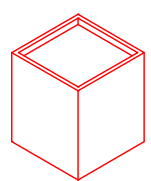
IV)



V)

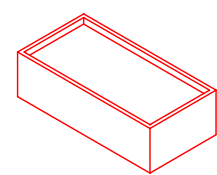


VI)



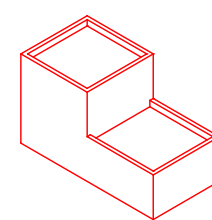
Typology I

Functions I **C** **R**



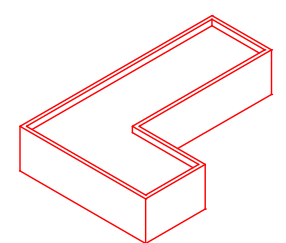
Typology II

Functions I **C** **R**
 Functions II **R** **R**



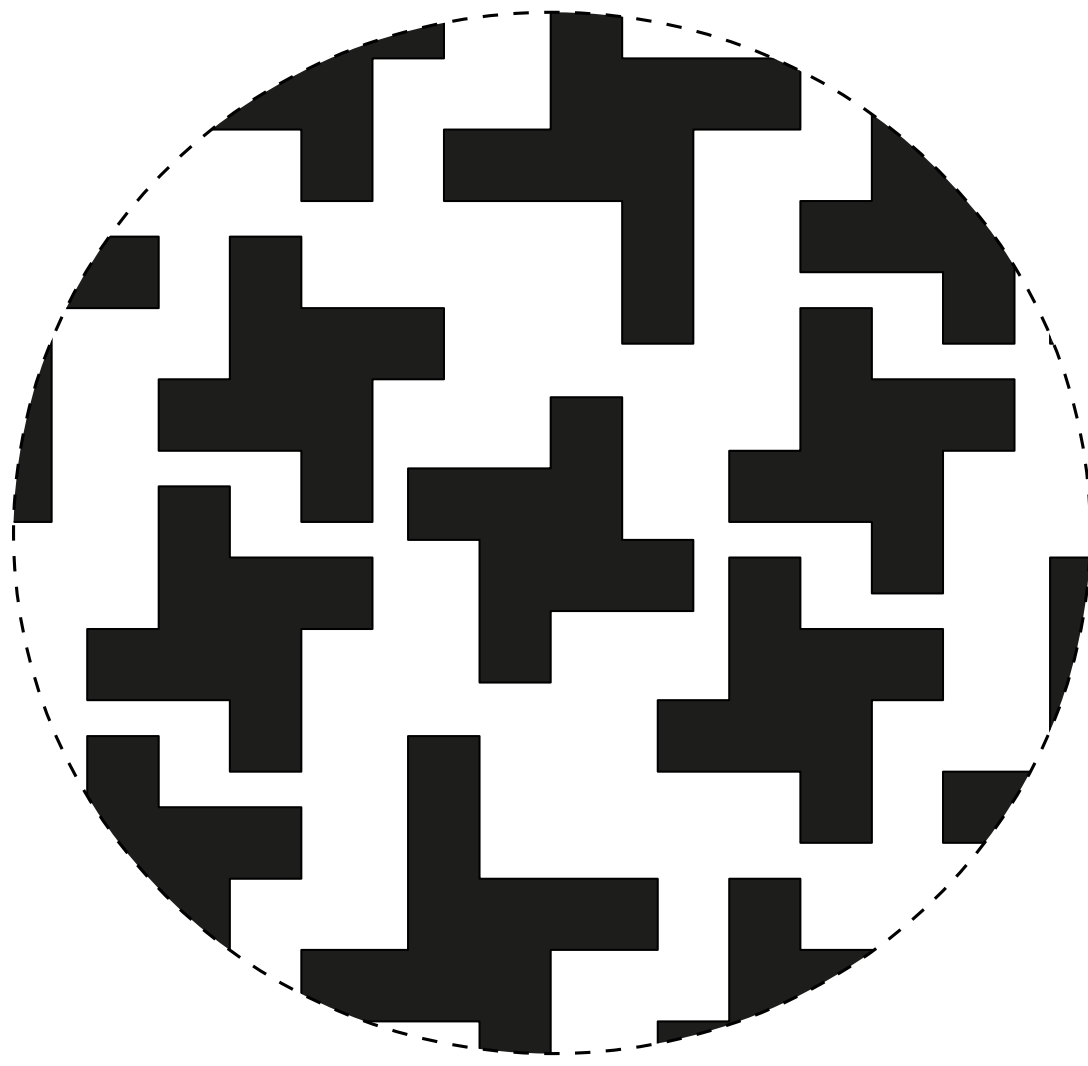
Typology III

Combo I **C** **R** **R**
 Combo II **R** **R** **R**

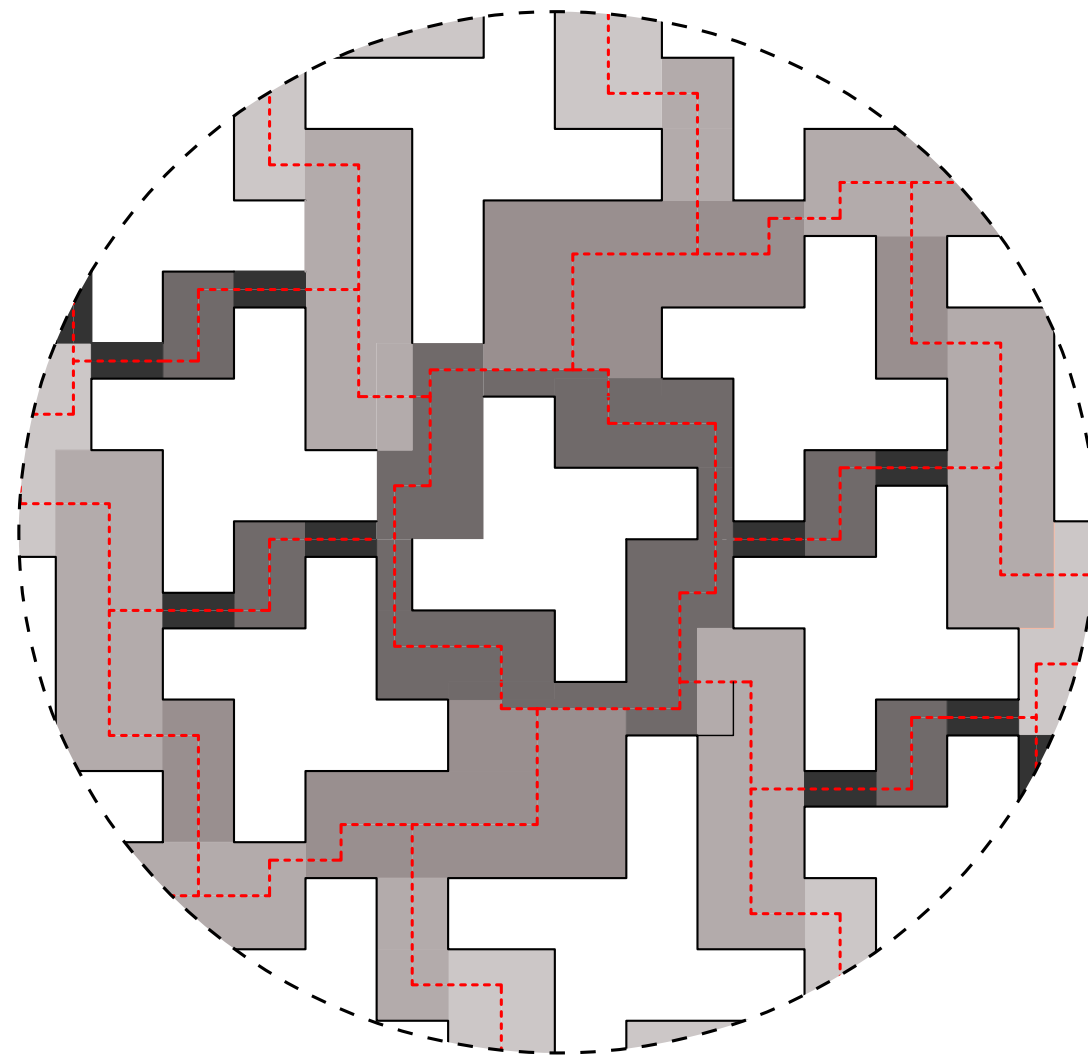


Typology 4

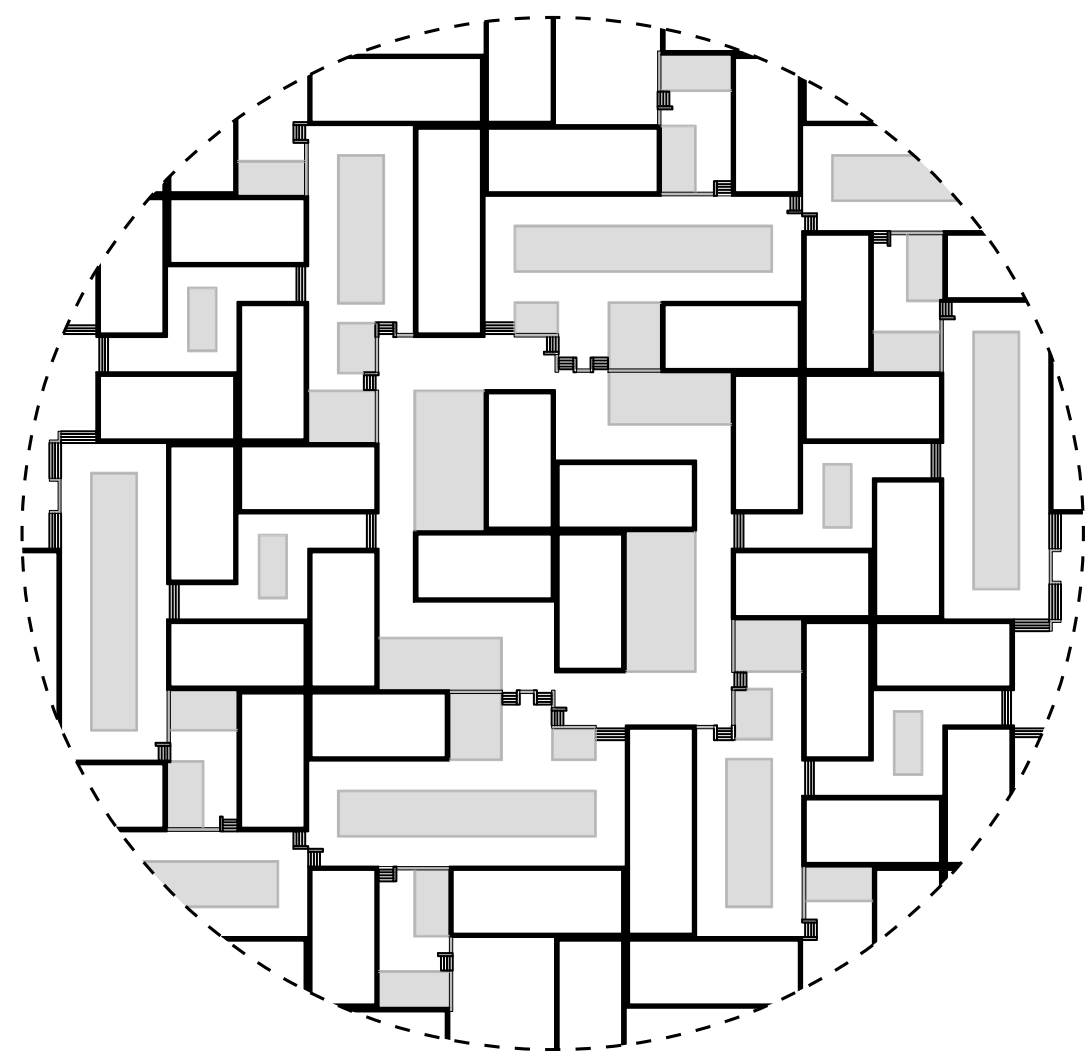
Combo I **C** **C** **R** **R**
 Combo II **R** **R** **R** **R**



Morphological reduction

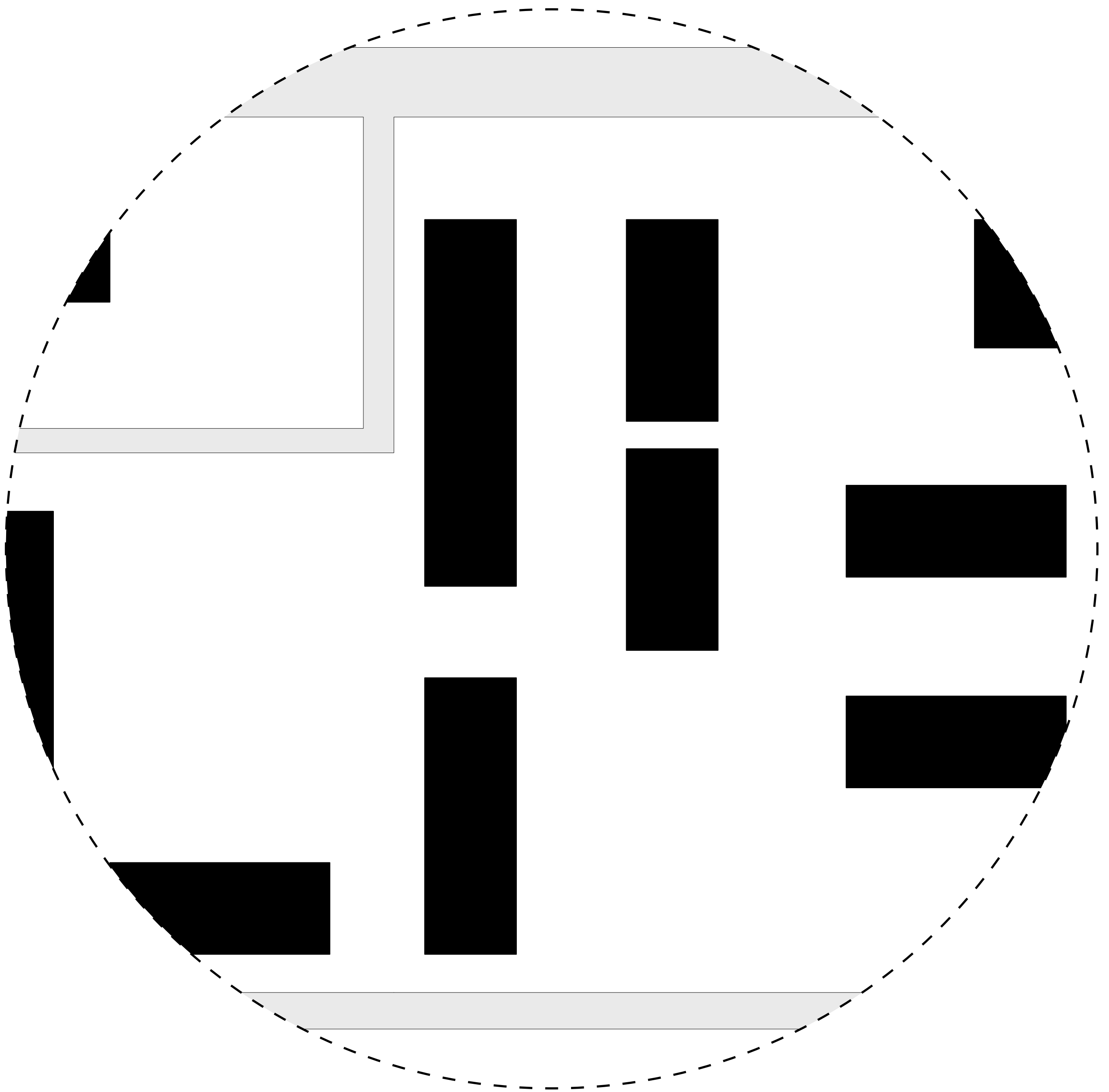


Typological reduction

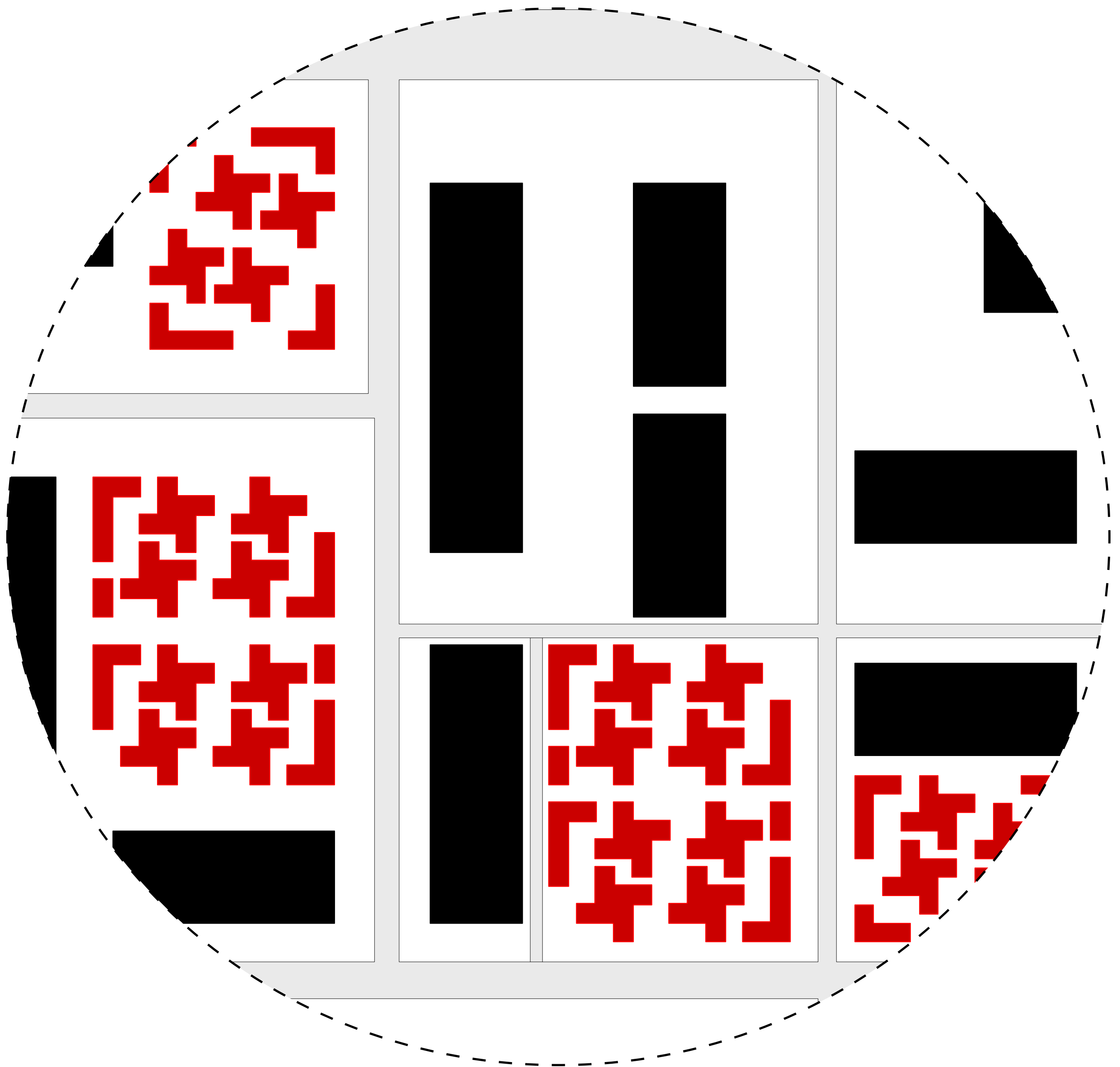


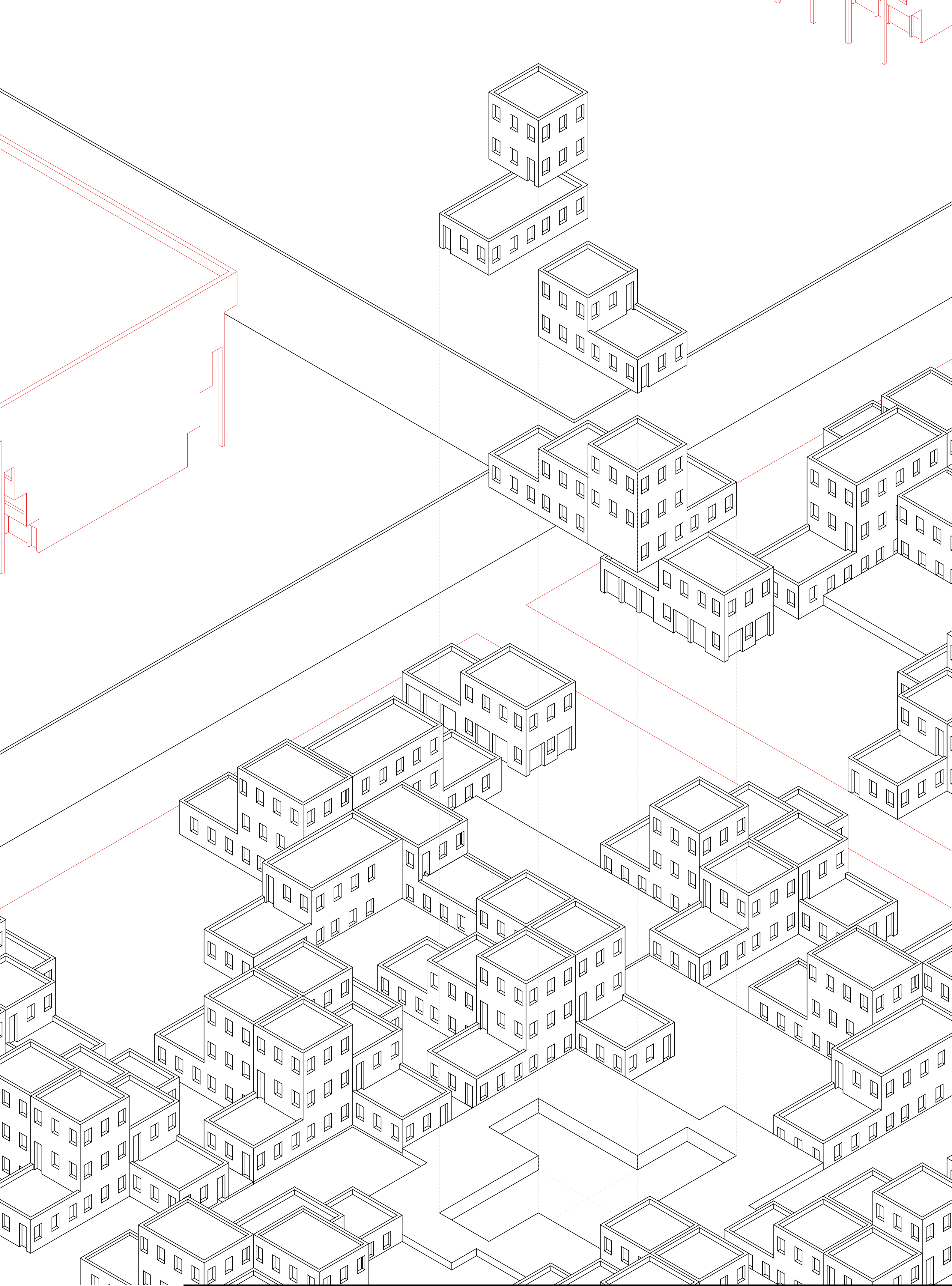
Horizontal section

Status quo

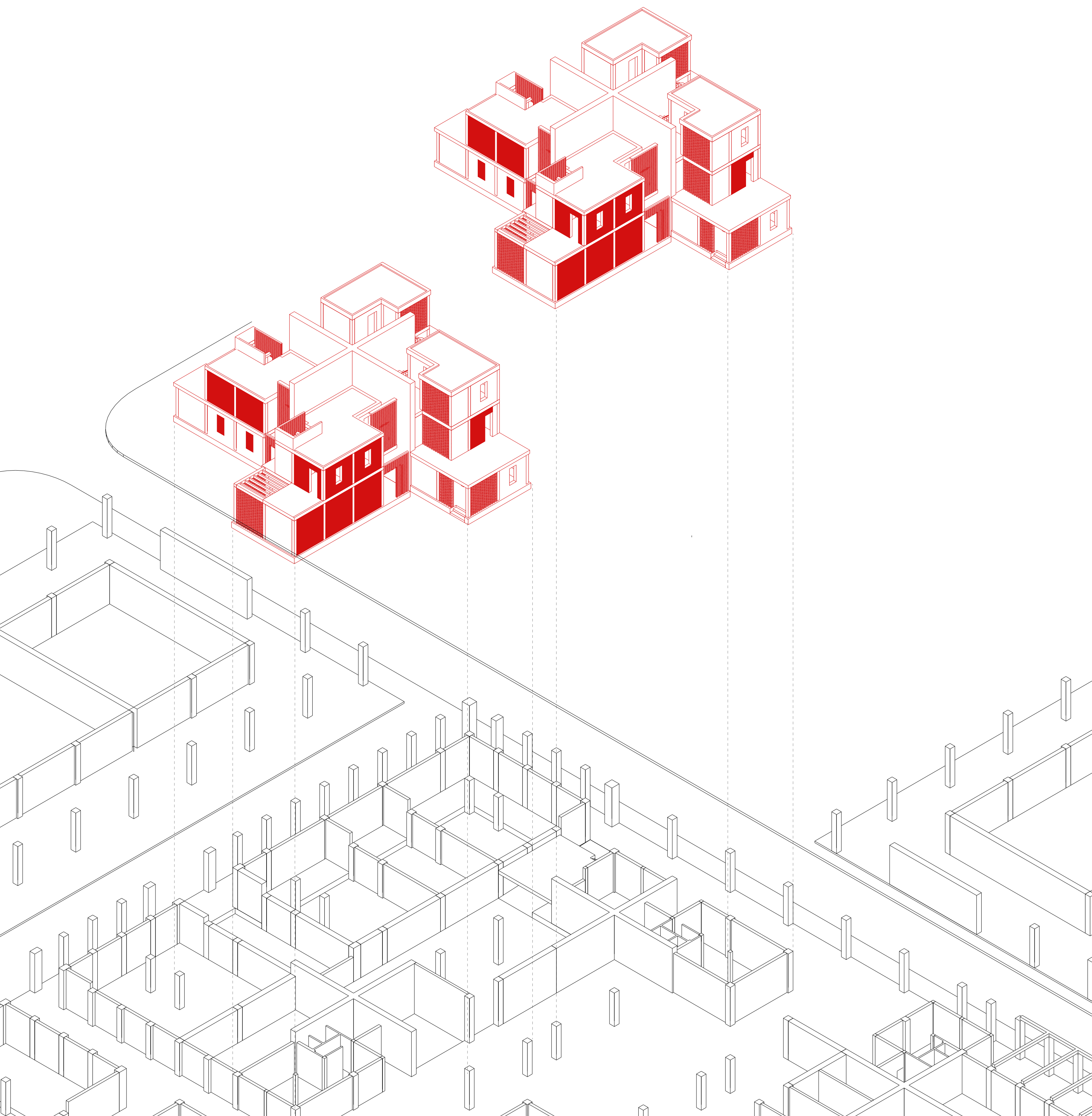


Design Hypothesis

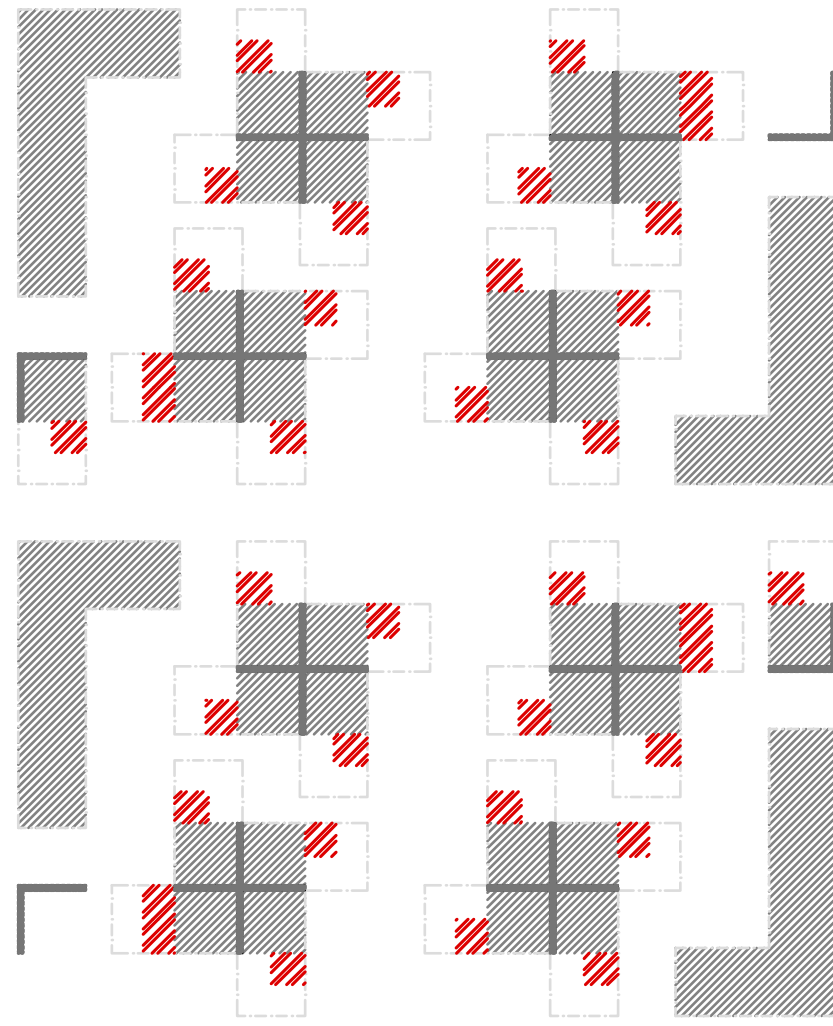




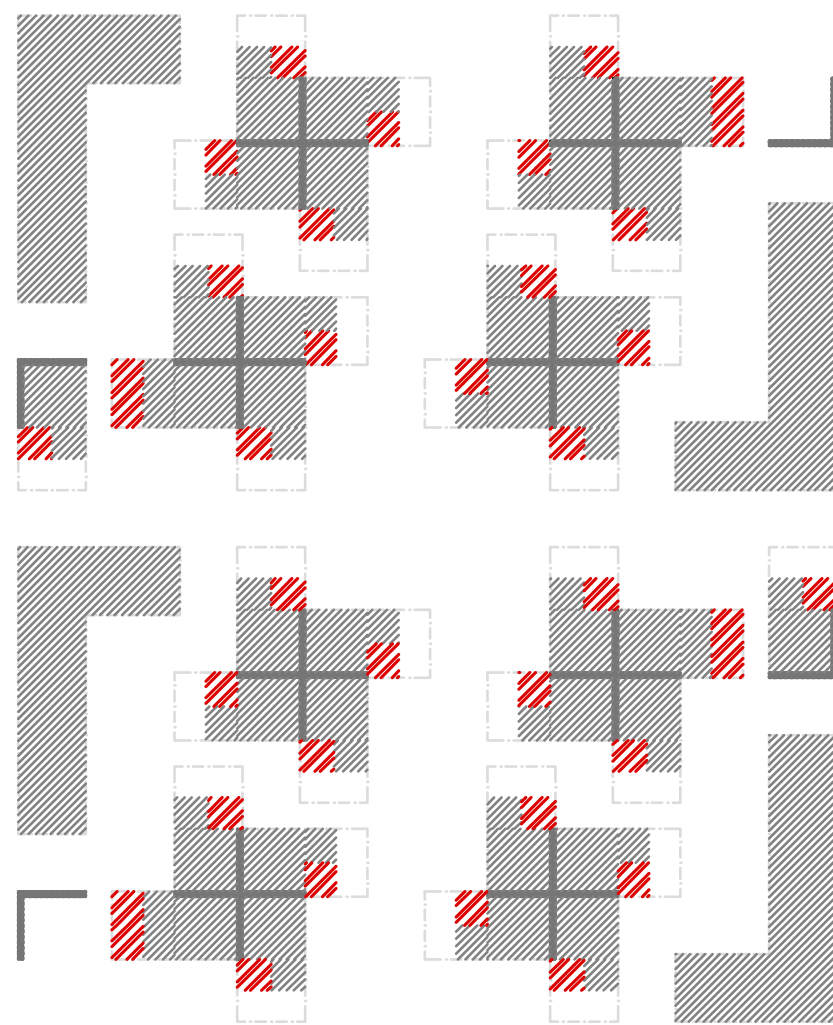
CONCEPT



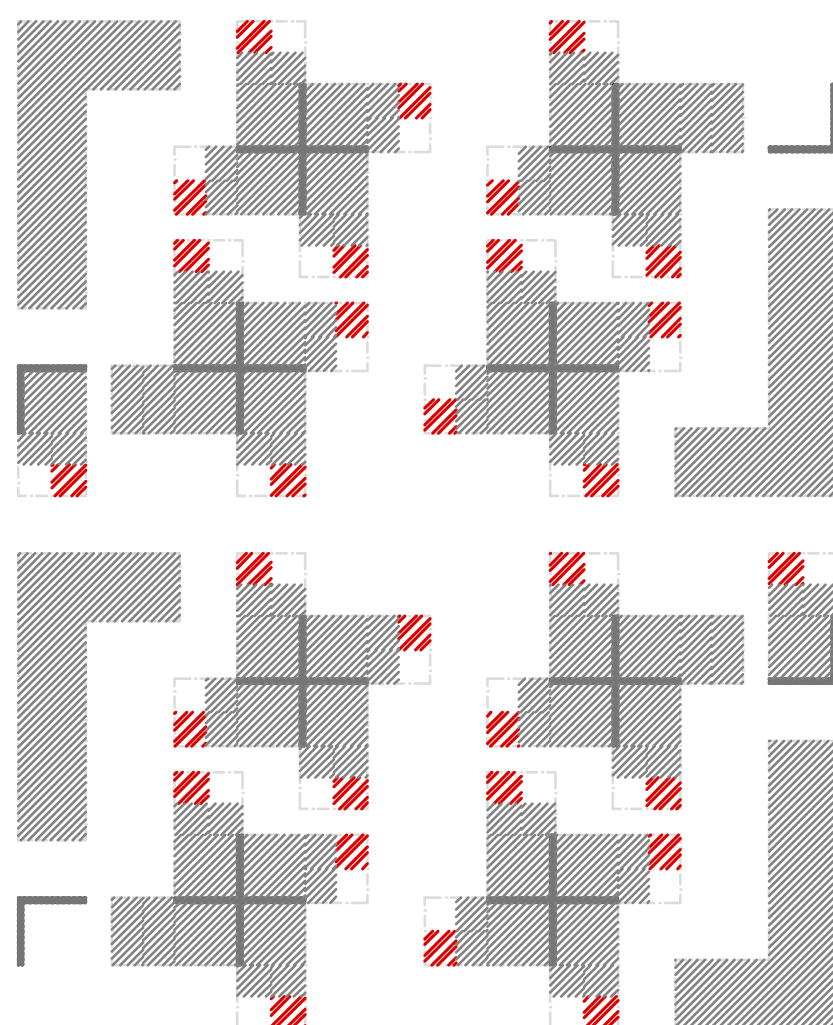
Scheme



First Phase



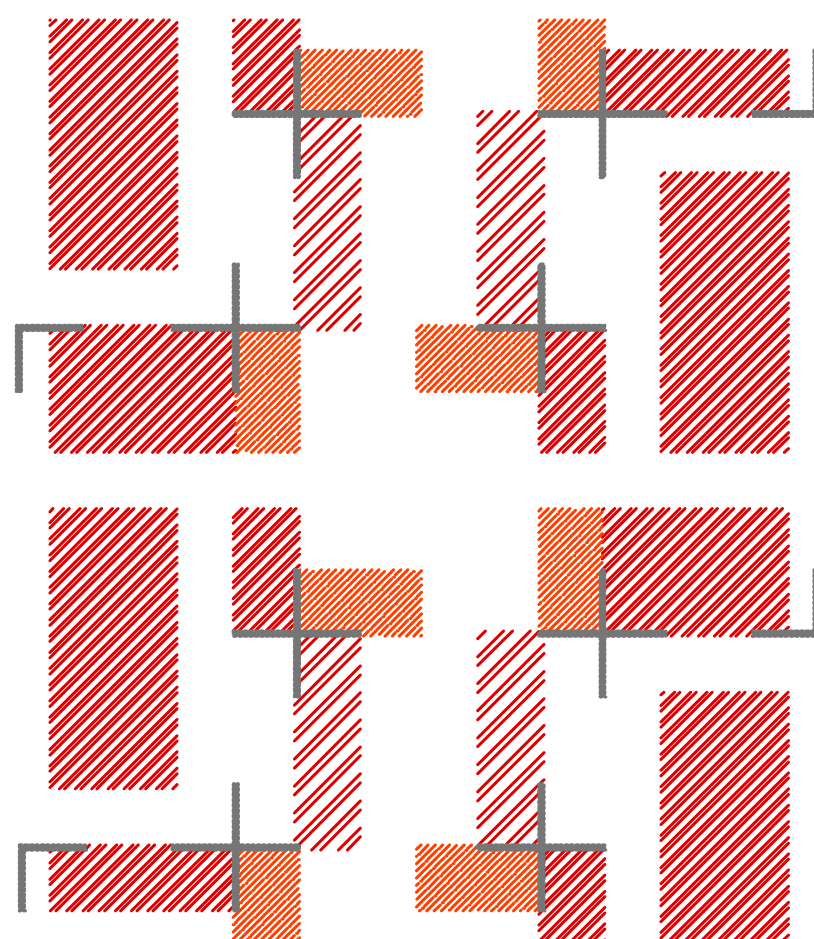
Second Phase



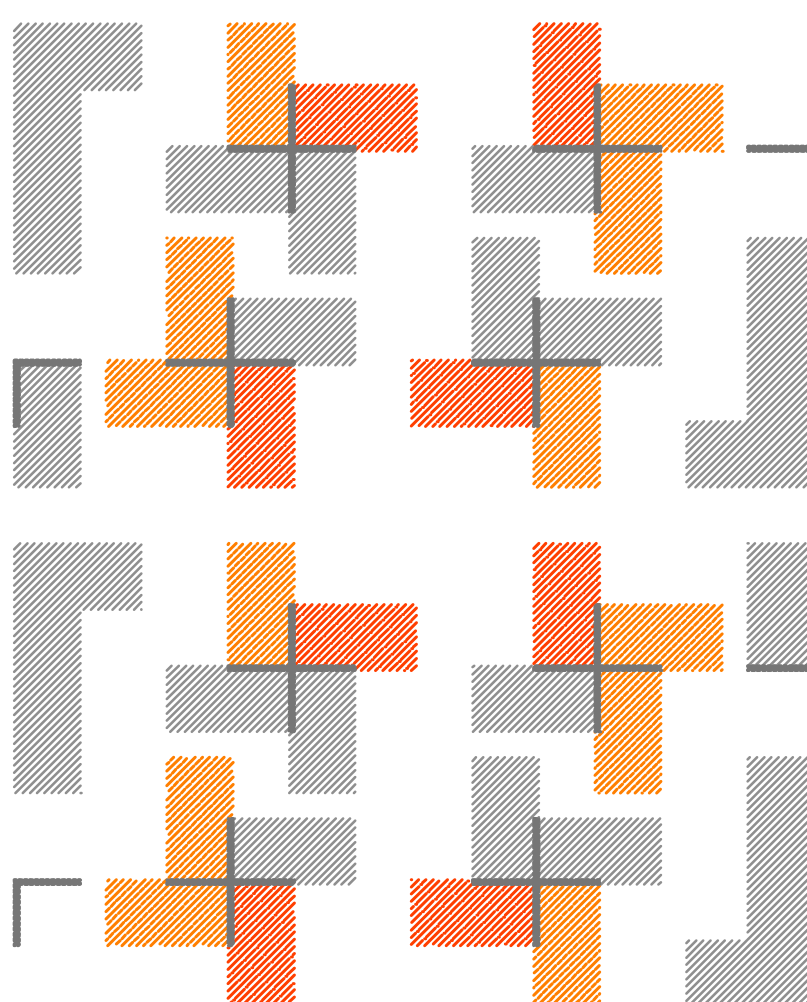
Third Phase

Typology

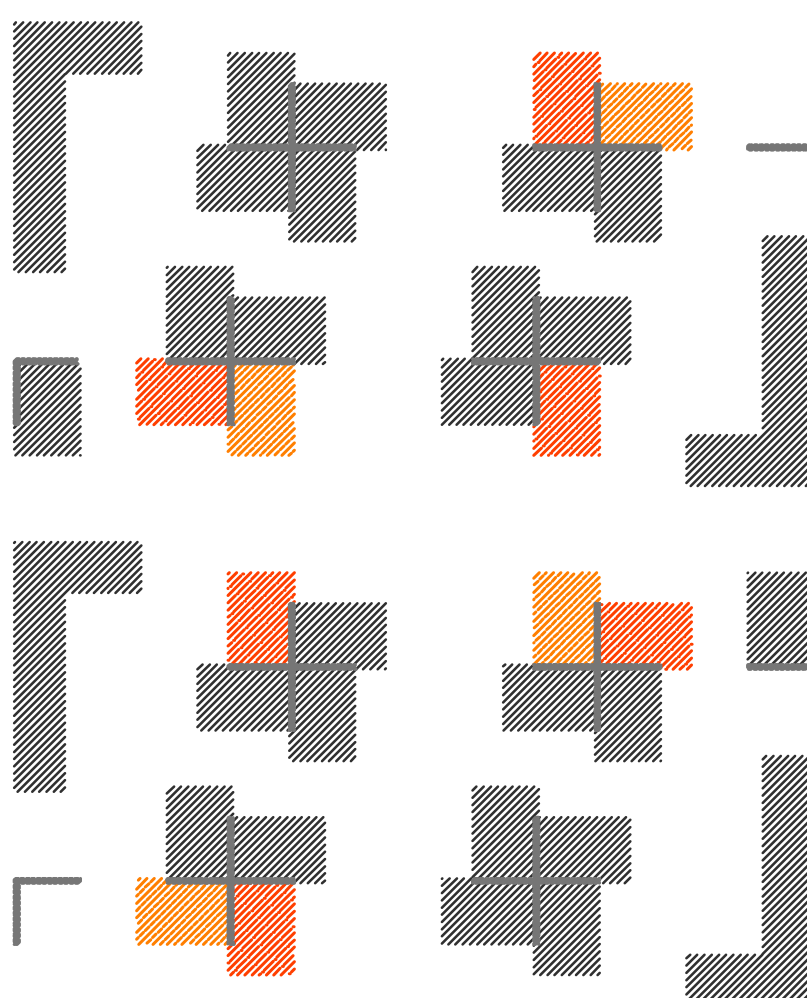
Built environment



Groundfloor



First floor

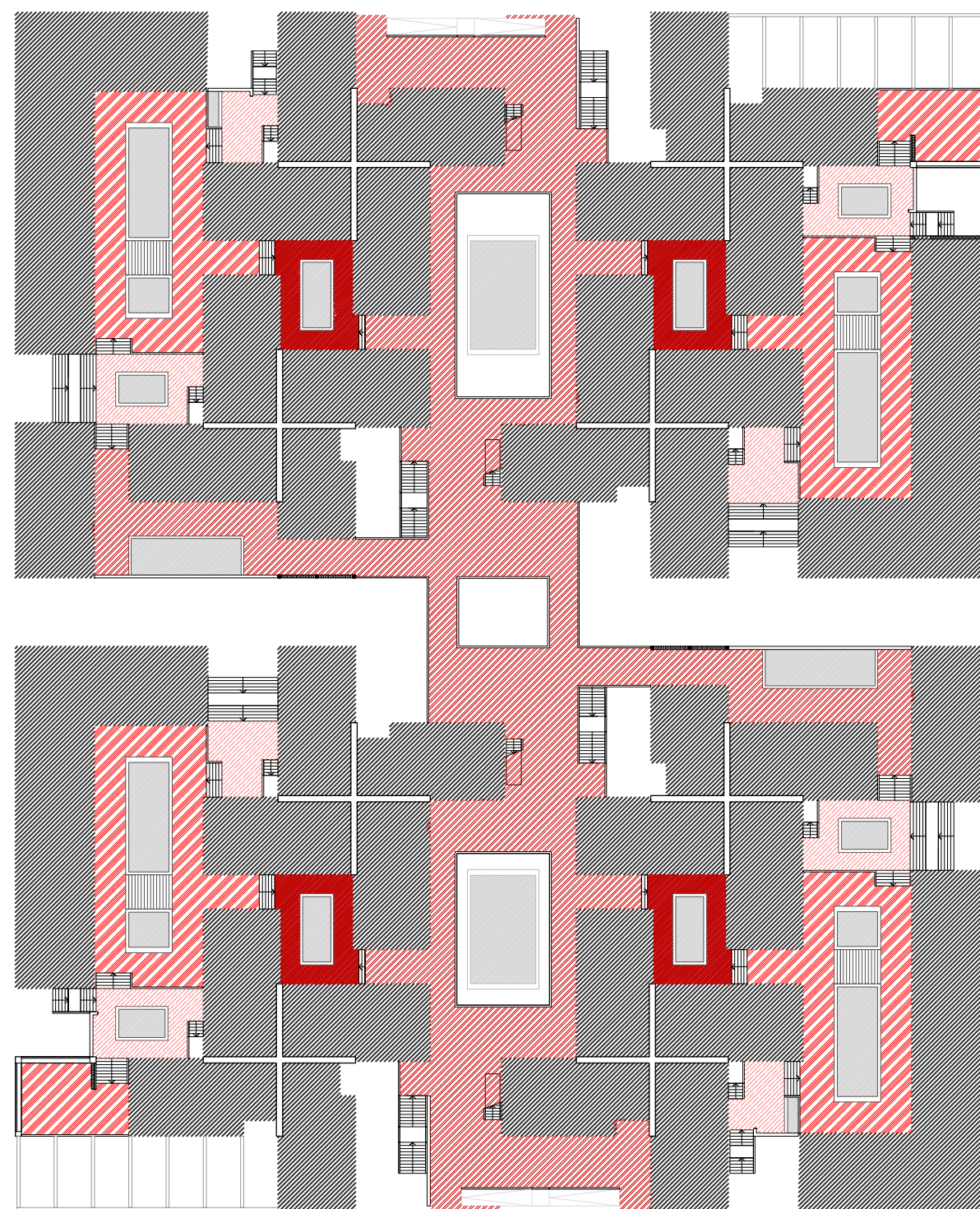


Second floor



Typology

Open spaces



Public

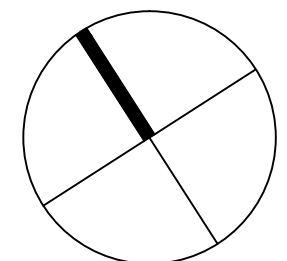
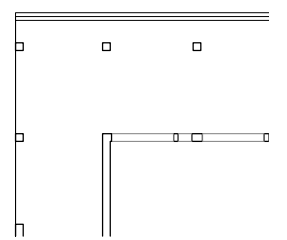
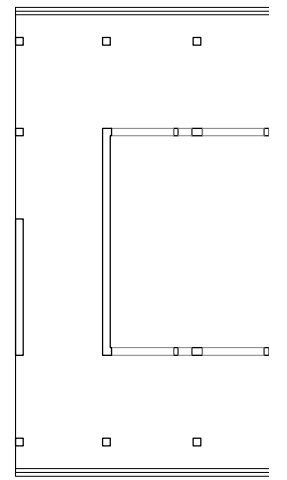
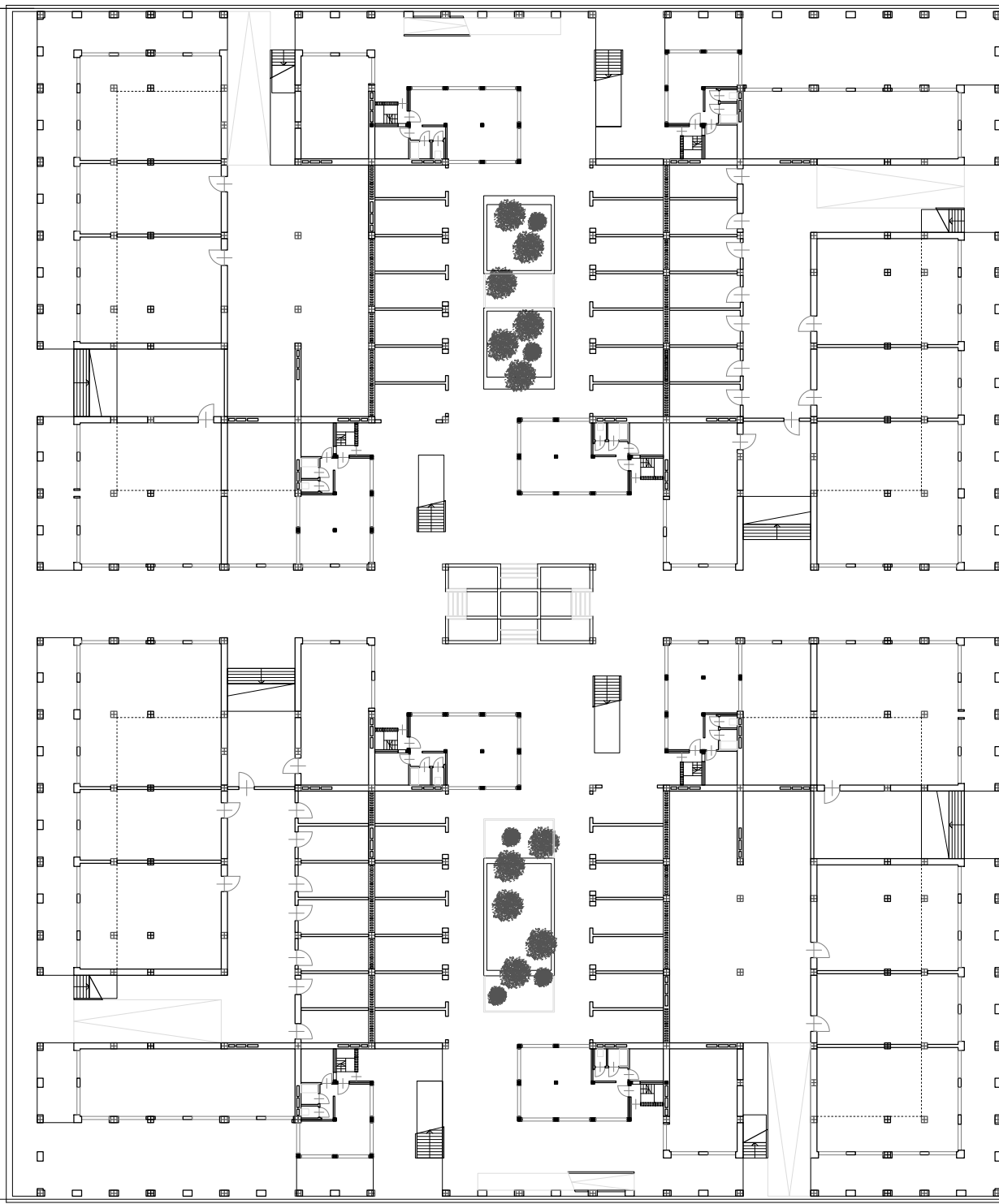
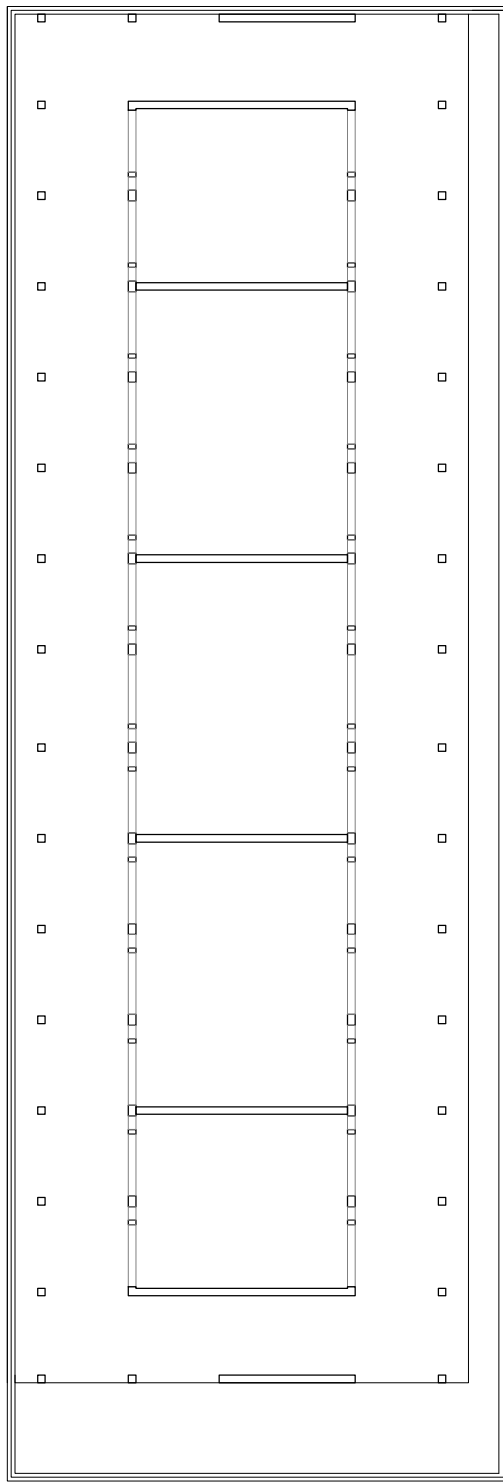
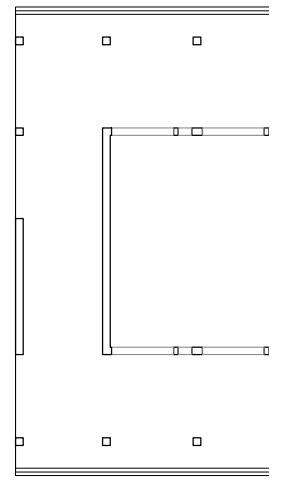
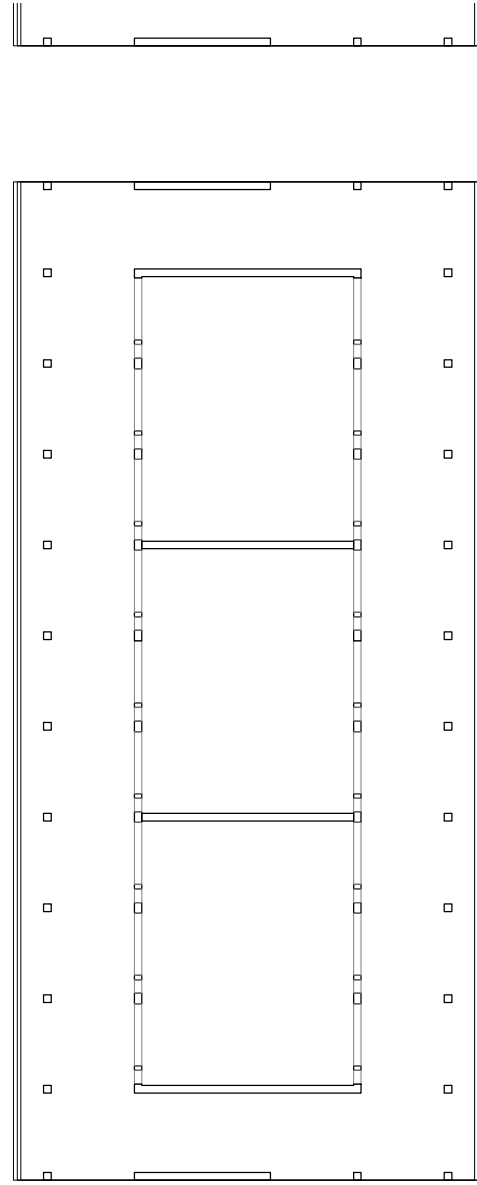
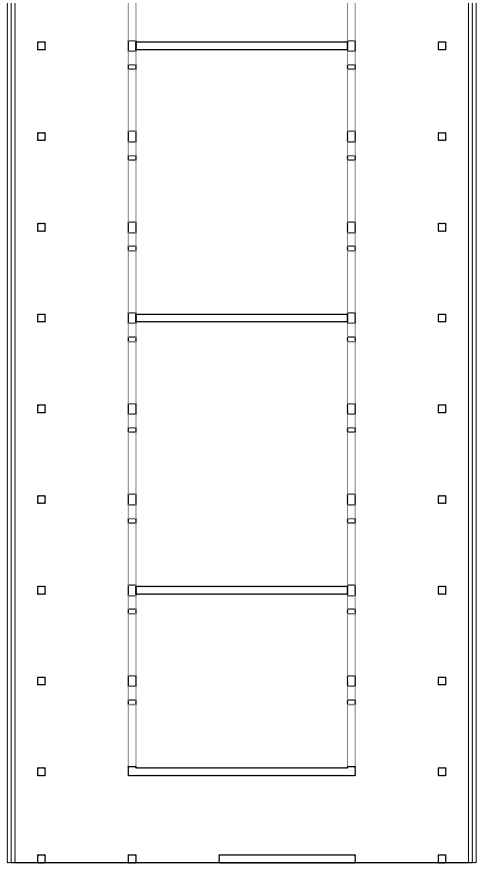
Semi - public

Collective

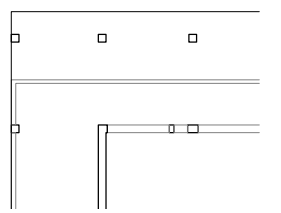
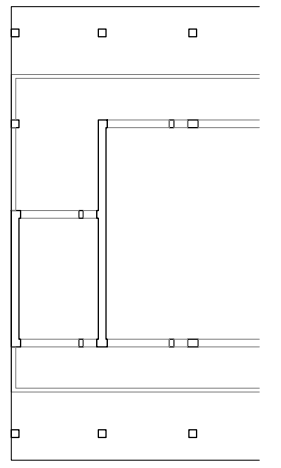
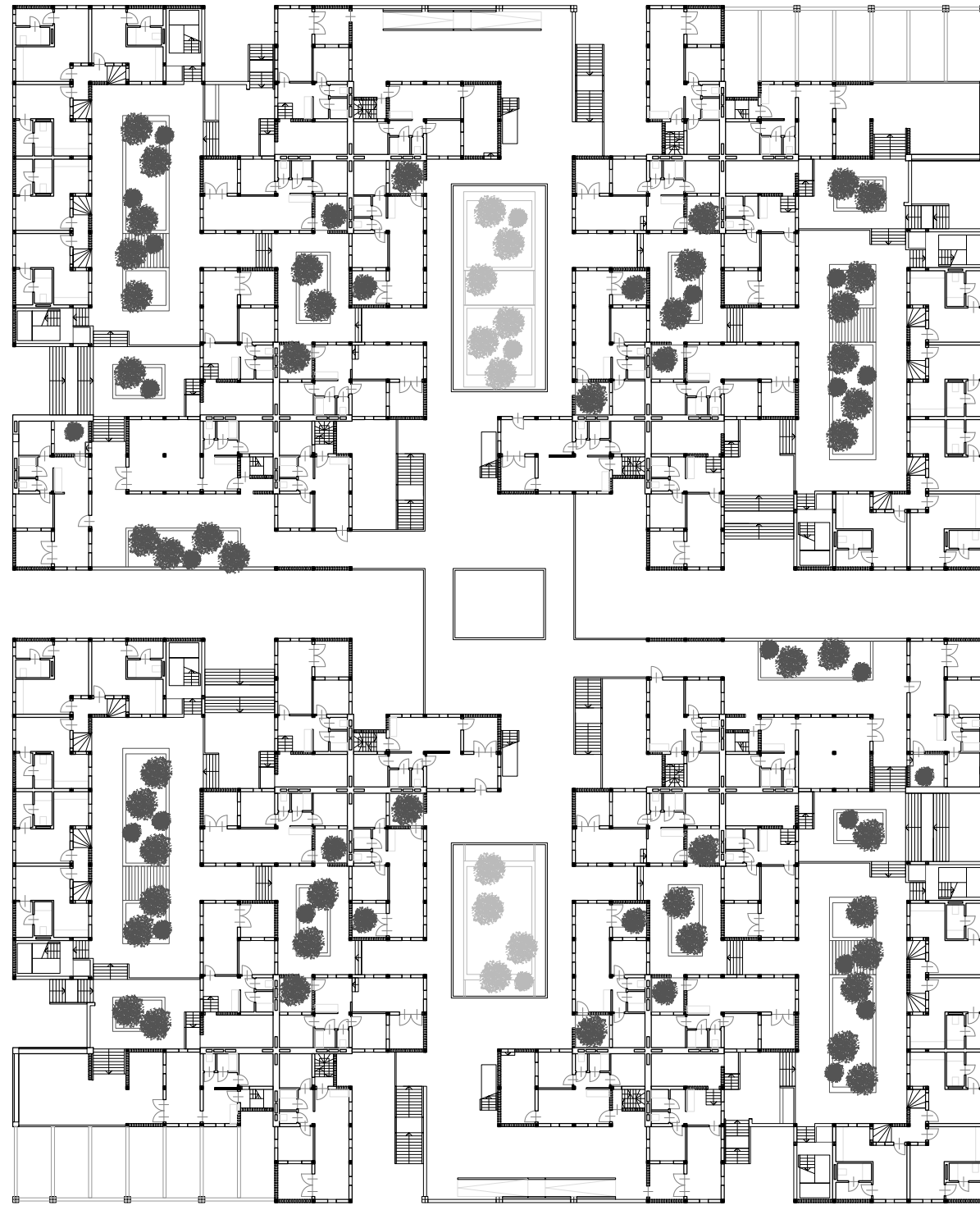
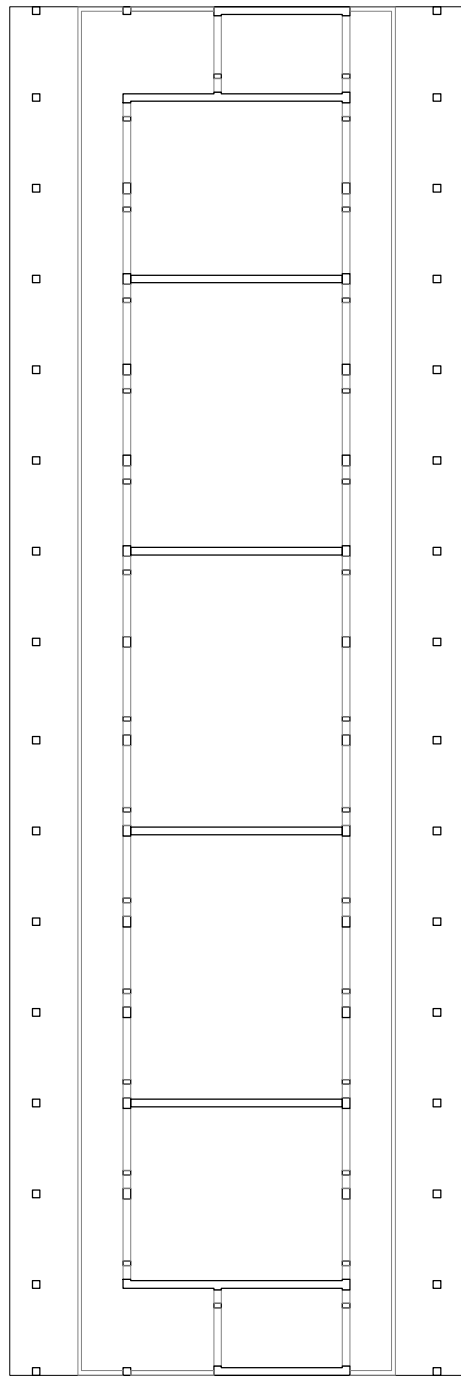
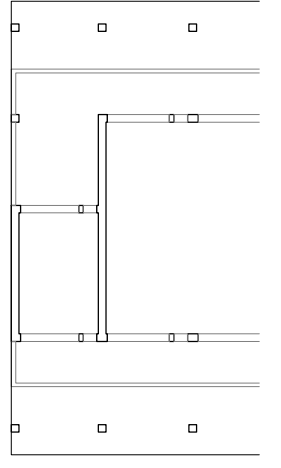
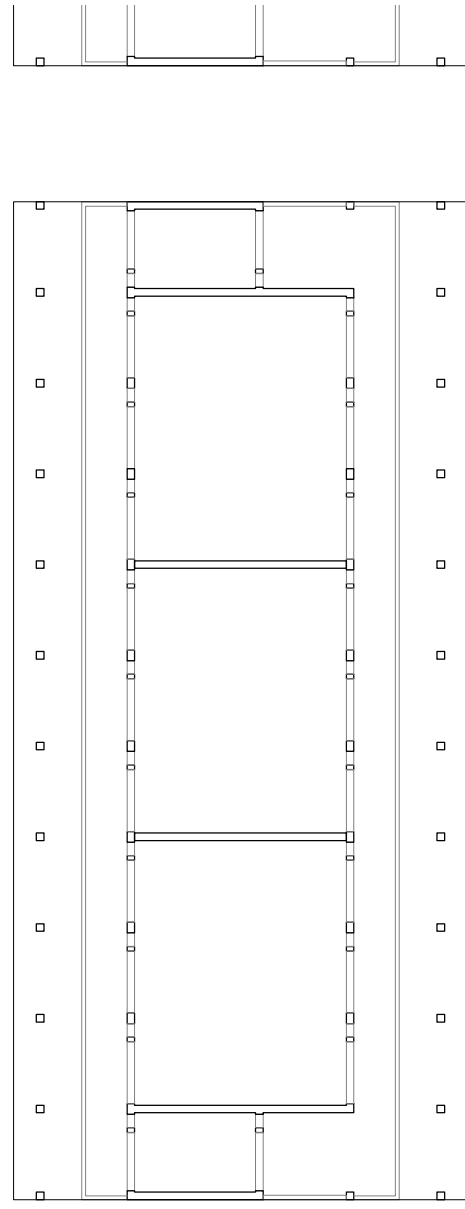
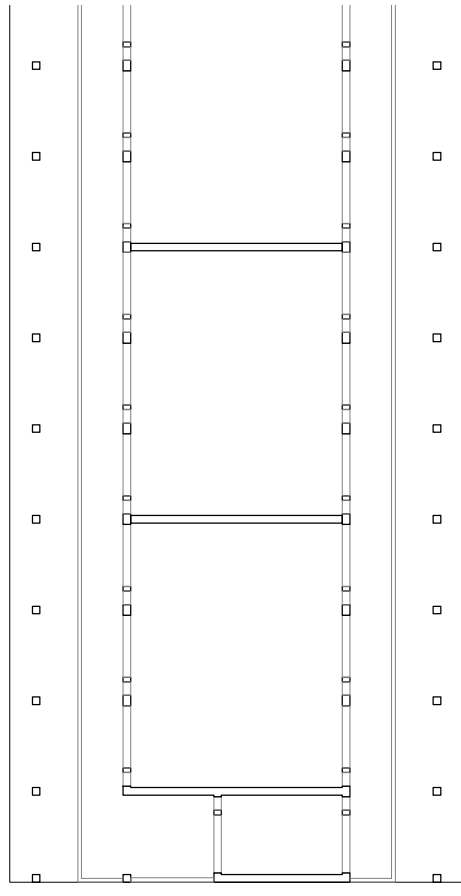
Semi - collective

Semi - private

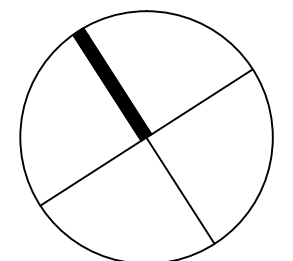


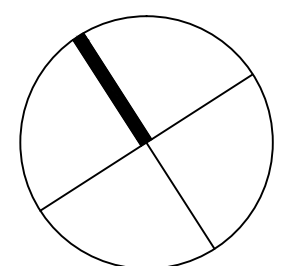
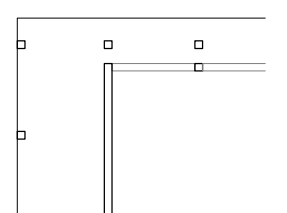
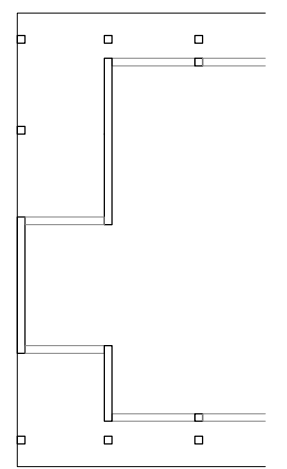
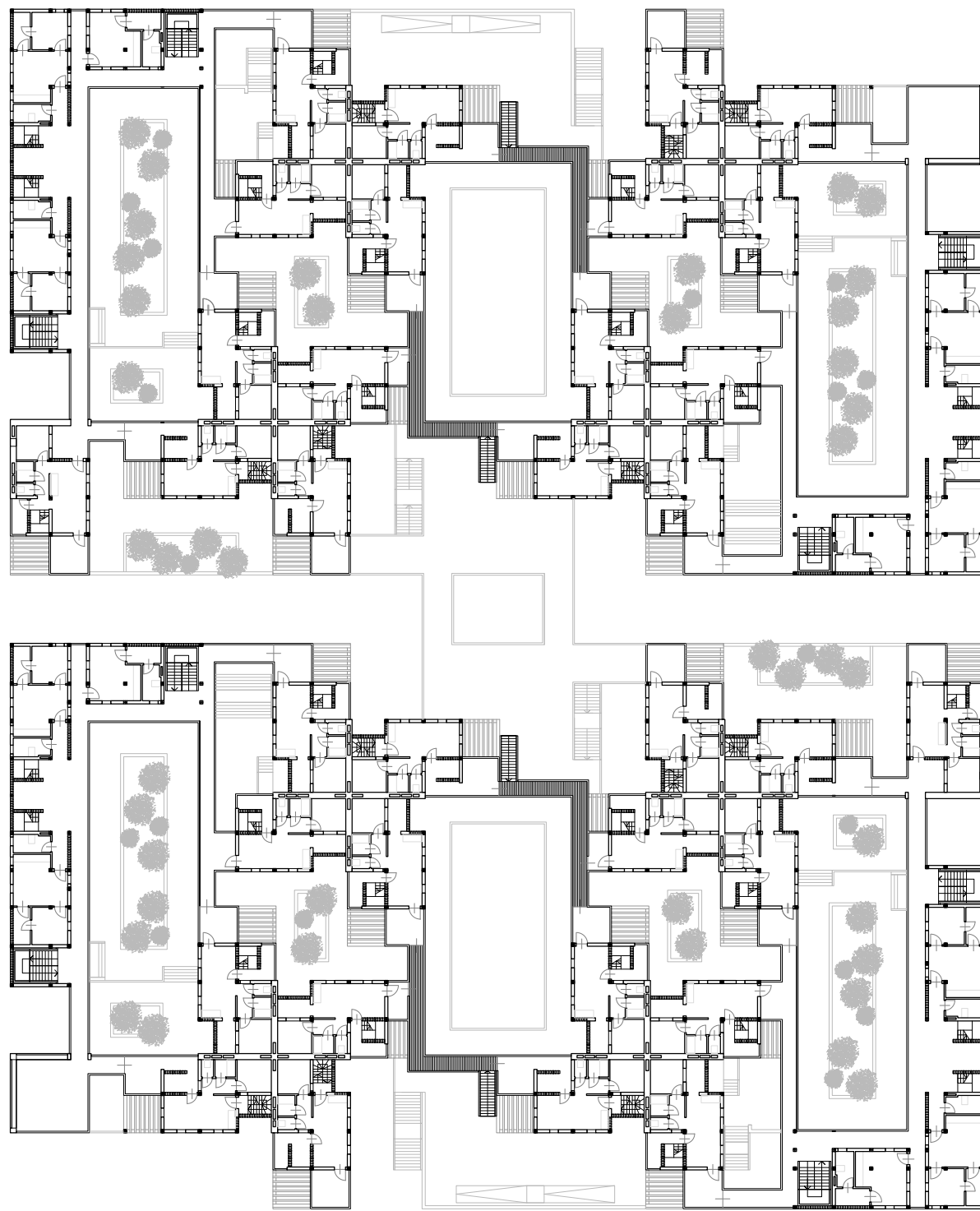
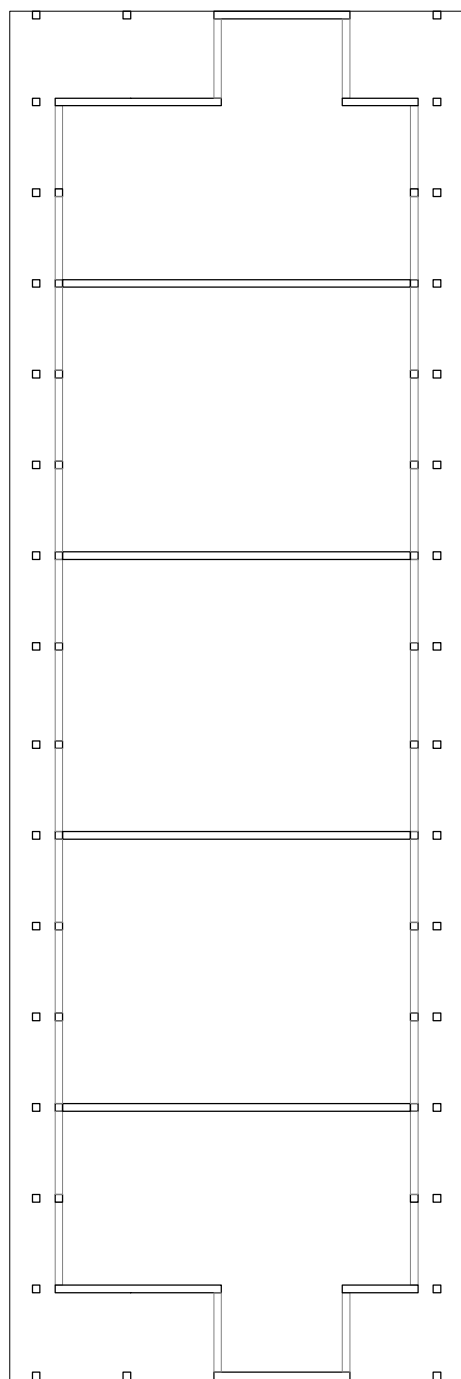
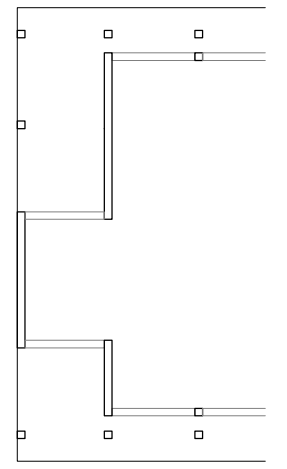
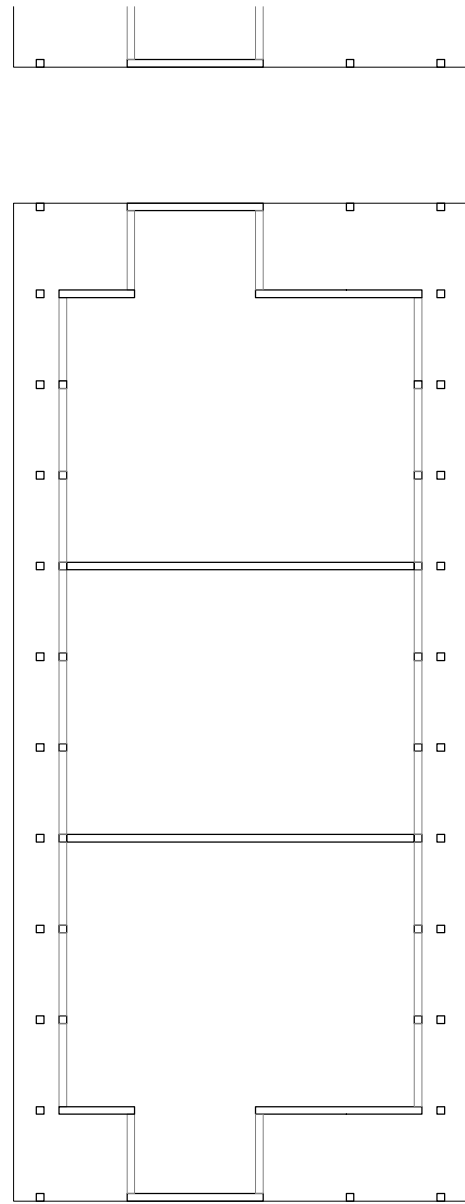
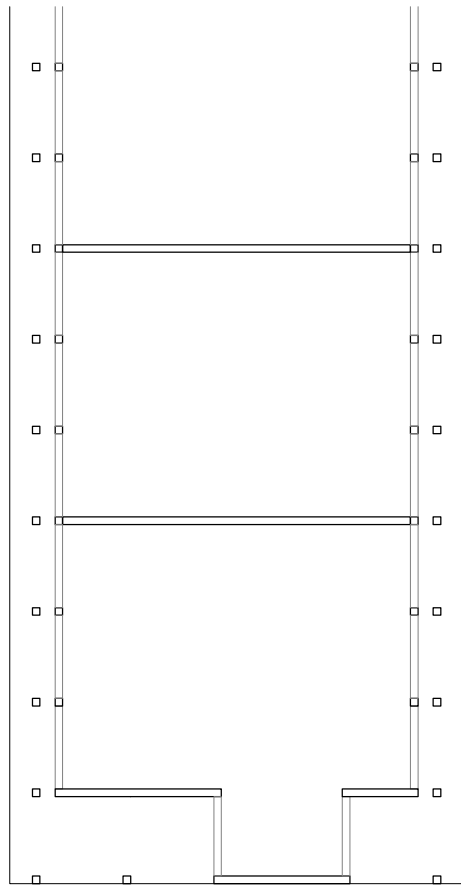


Floorplan - Groundfloor 1:500

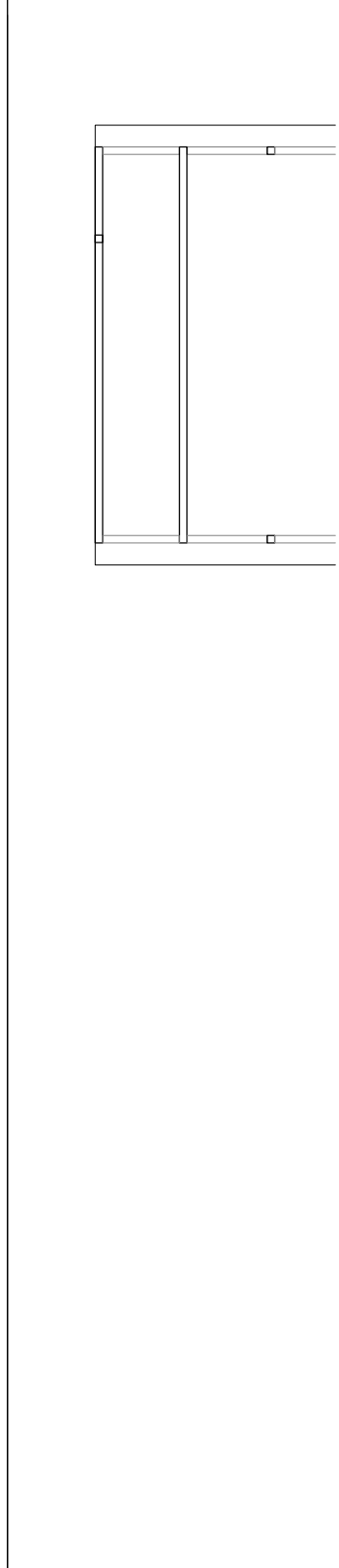
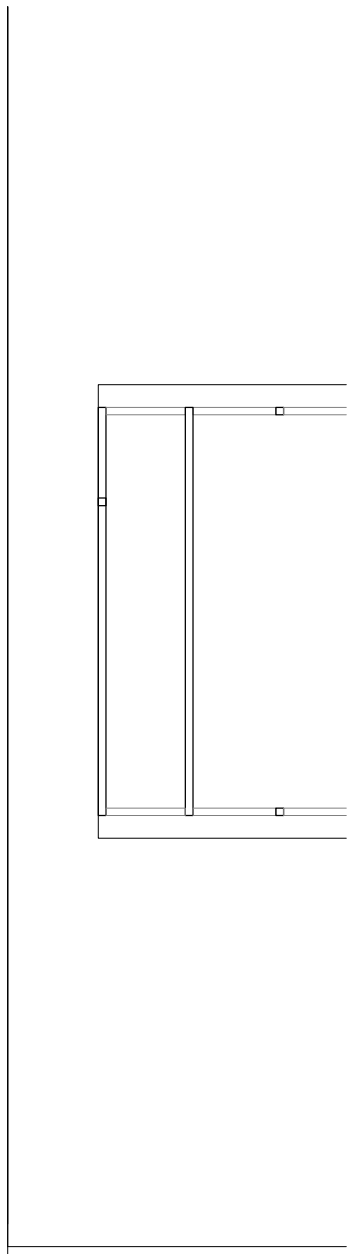
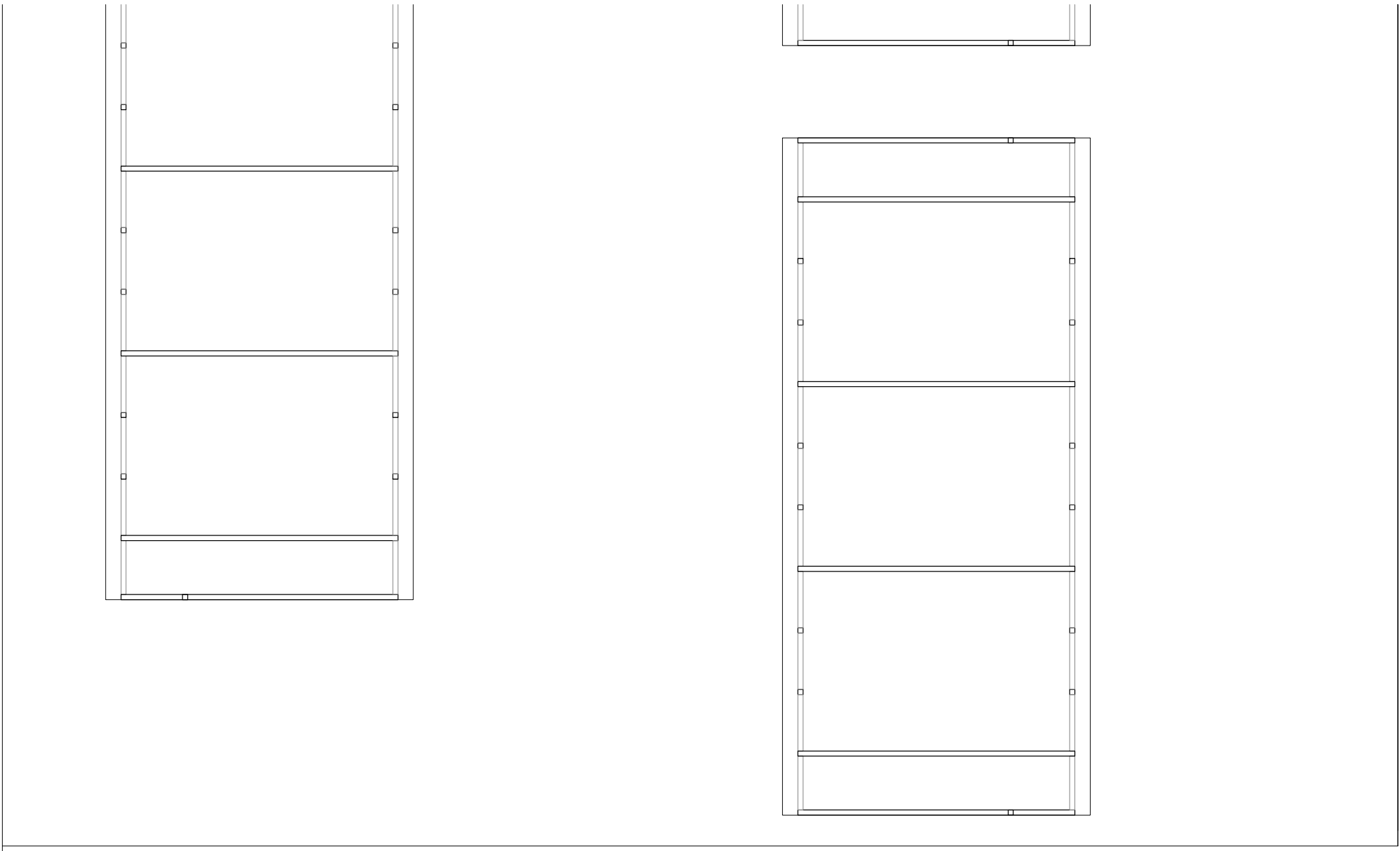


Floorplan - First floor 1:500

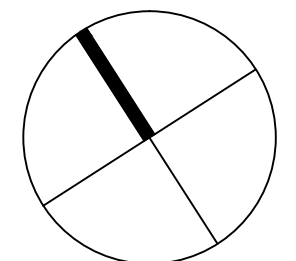




Floorplan - Second floor 1:500



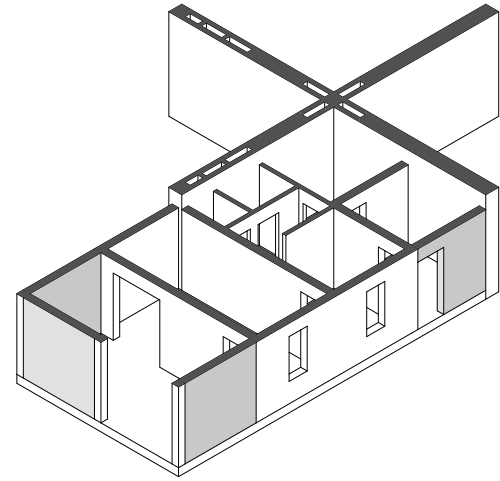
Floorplan - Third floor 1:500



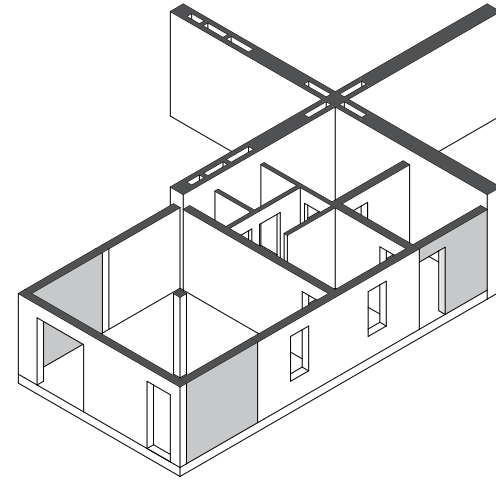
Dwelling types

HYBRID
Commercial + Residential

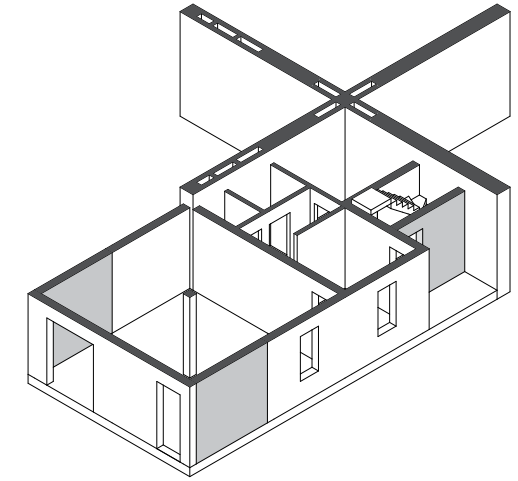
Level 0



Phase I

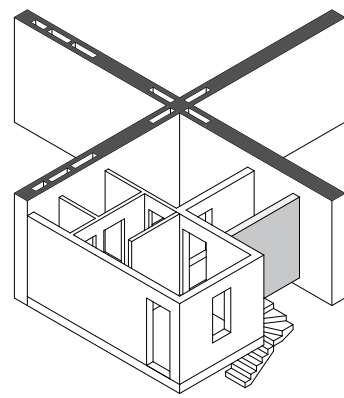


Phase II

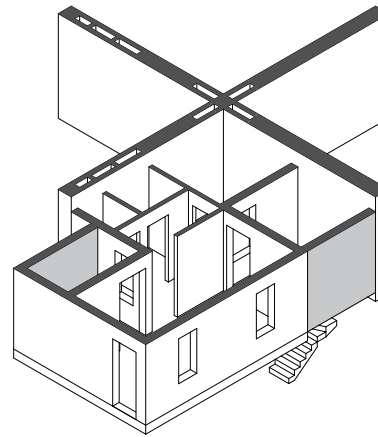


Phase III

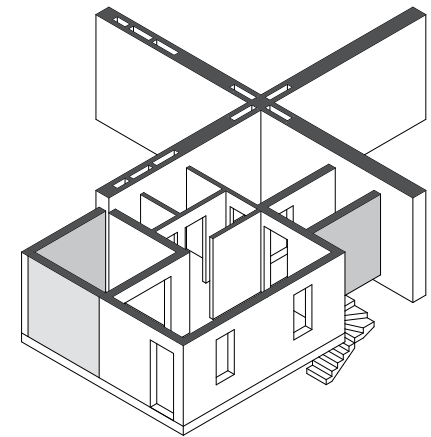
Level I



Phase IV

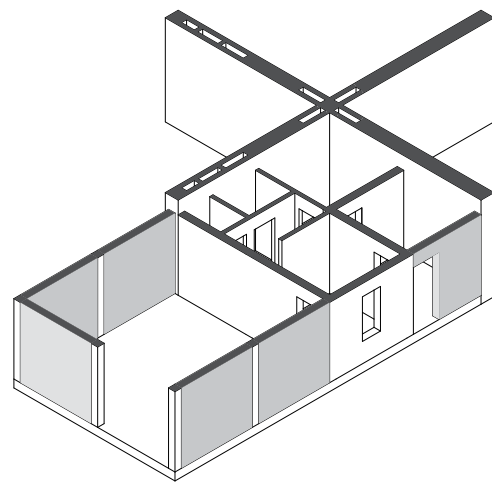


Phase V

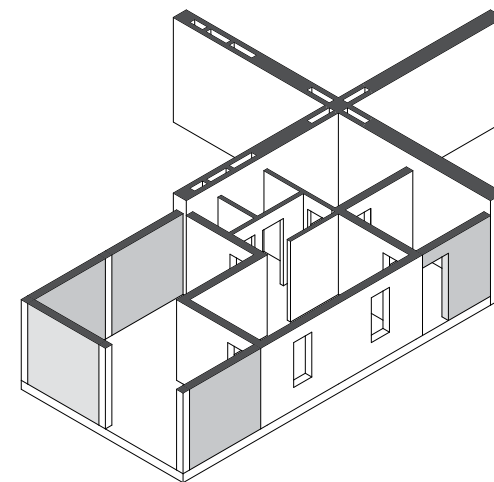


Phase VI

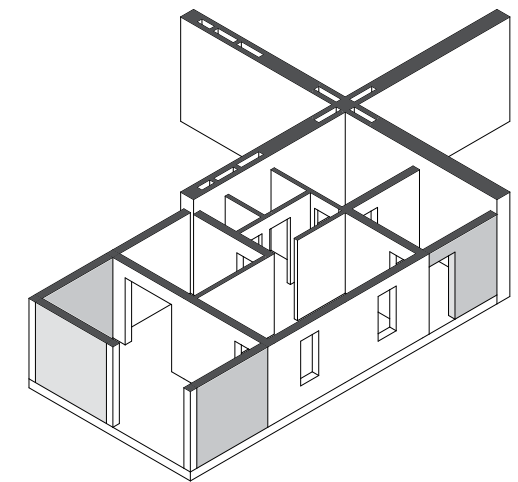
DWELLING - I
One-storey apartment



Phase I

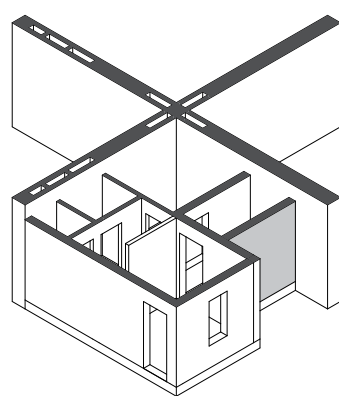


Phase II



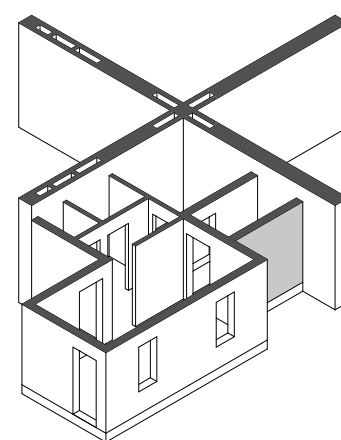
Phase III

DWELLING - II
Duplex apartment

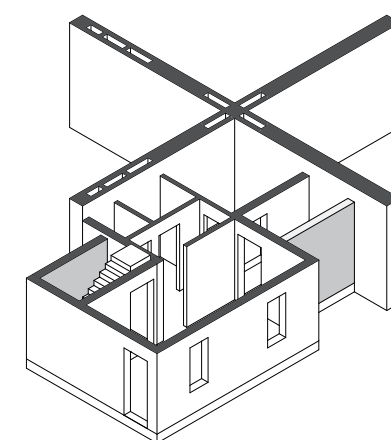


Phase I

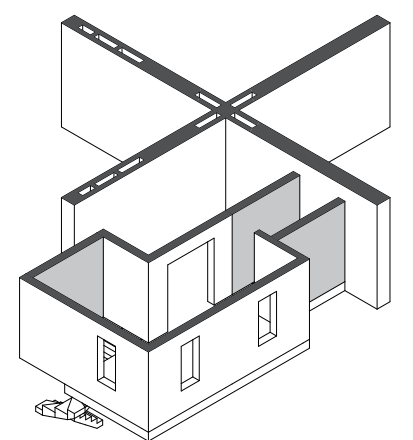
Level I



Phase II



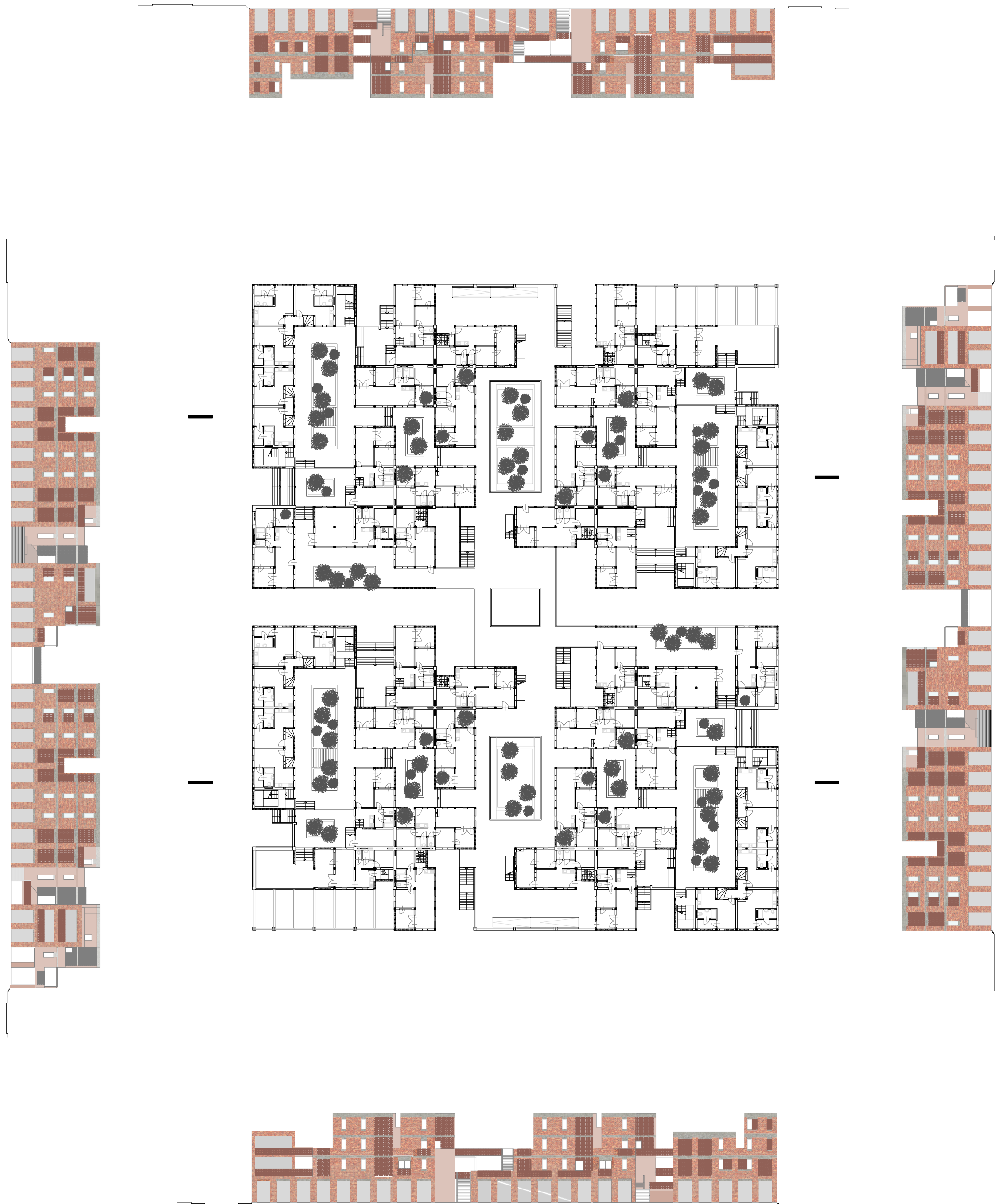
Phase III



Phase IV

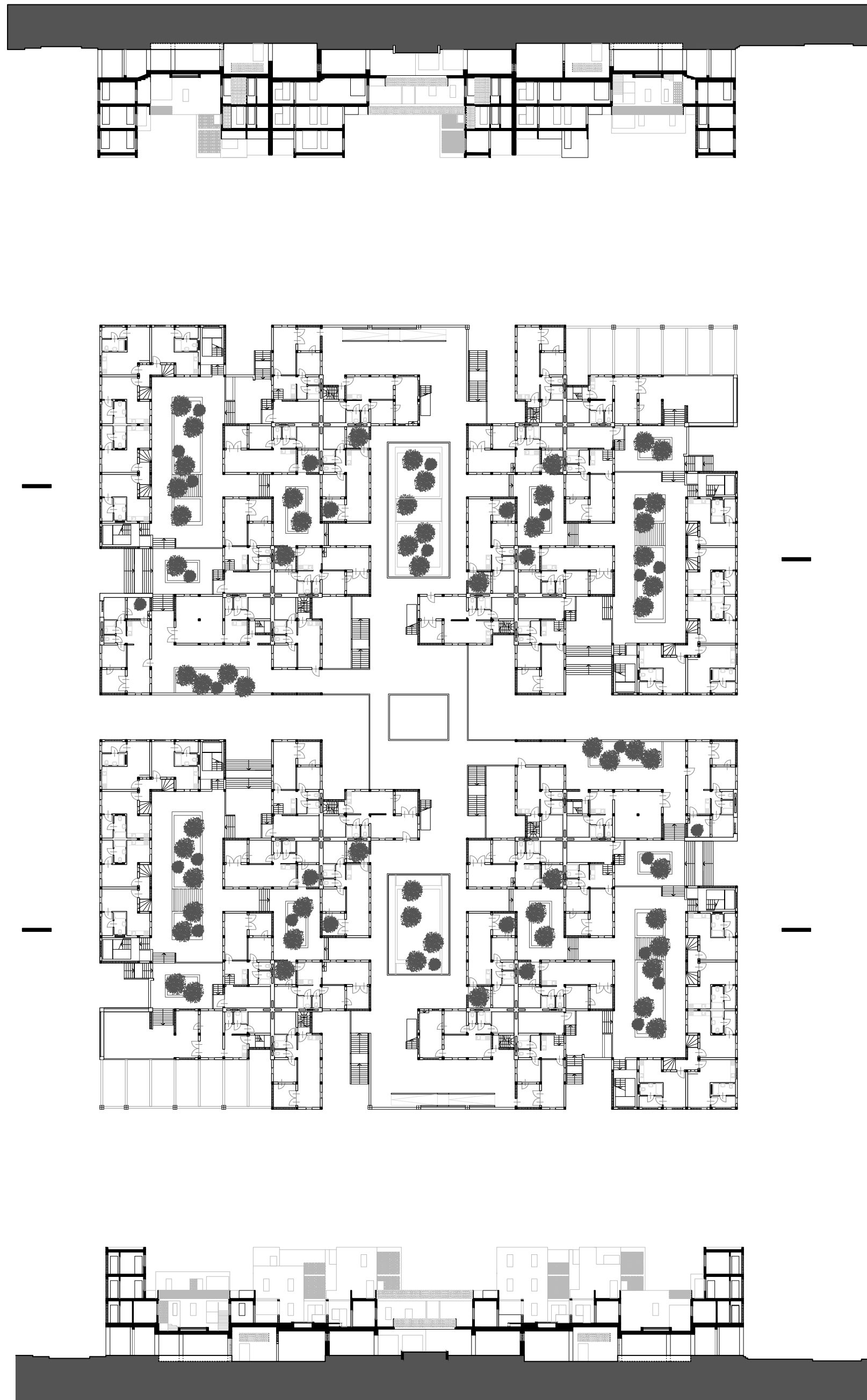
Level 2

Façades

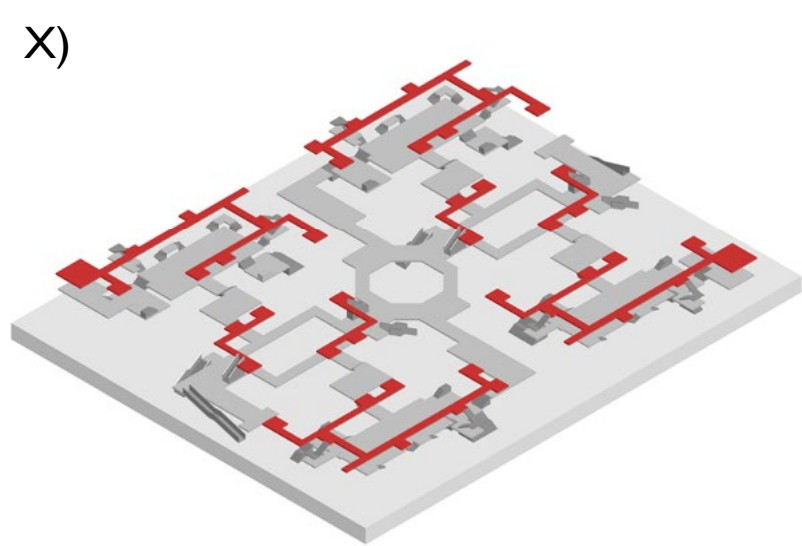
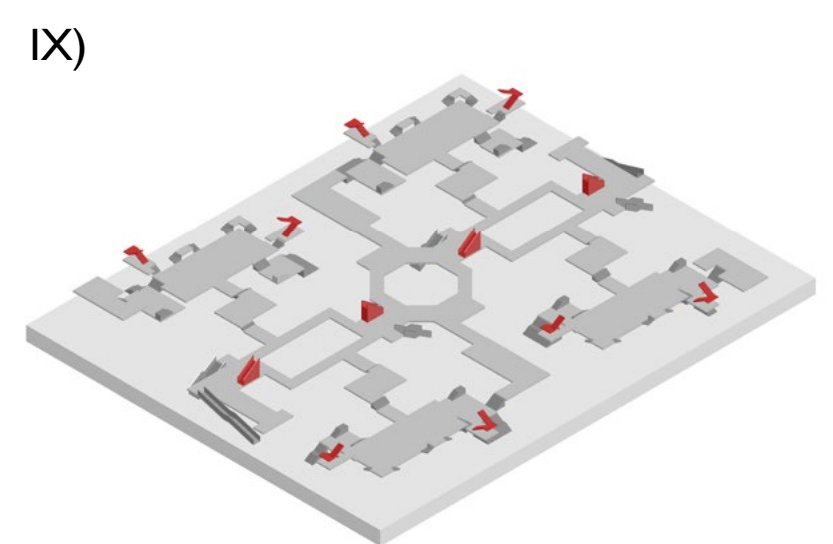
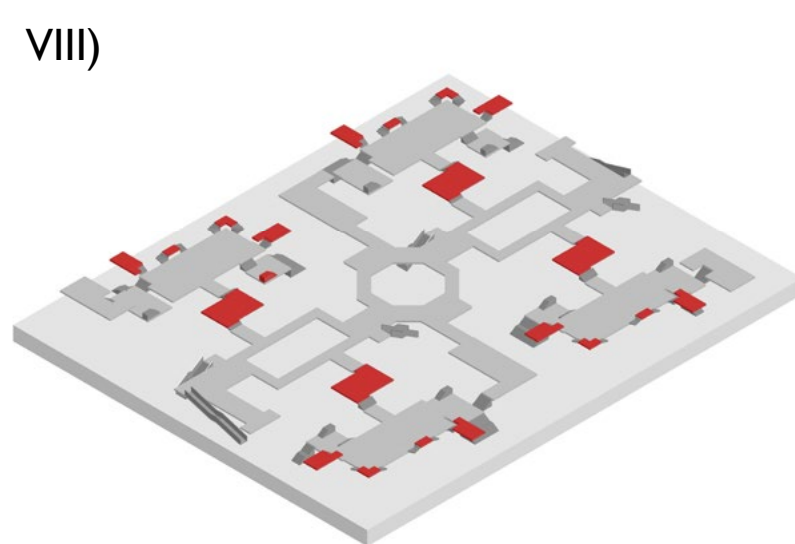
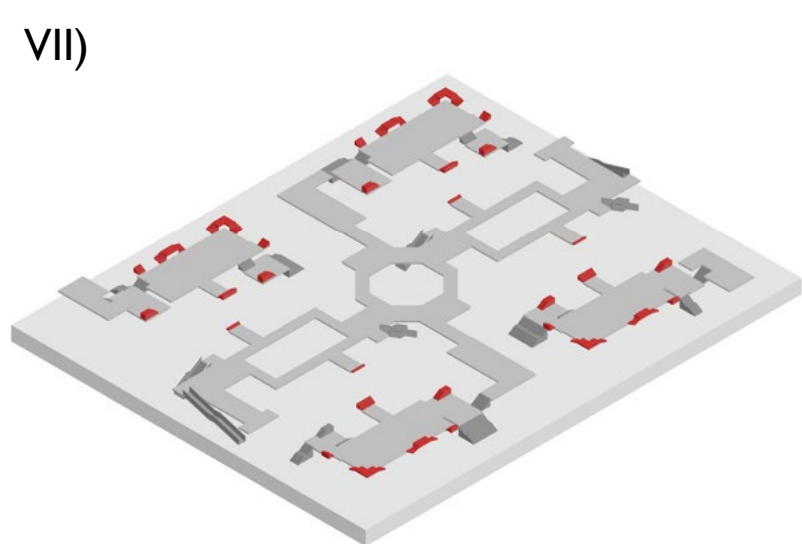
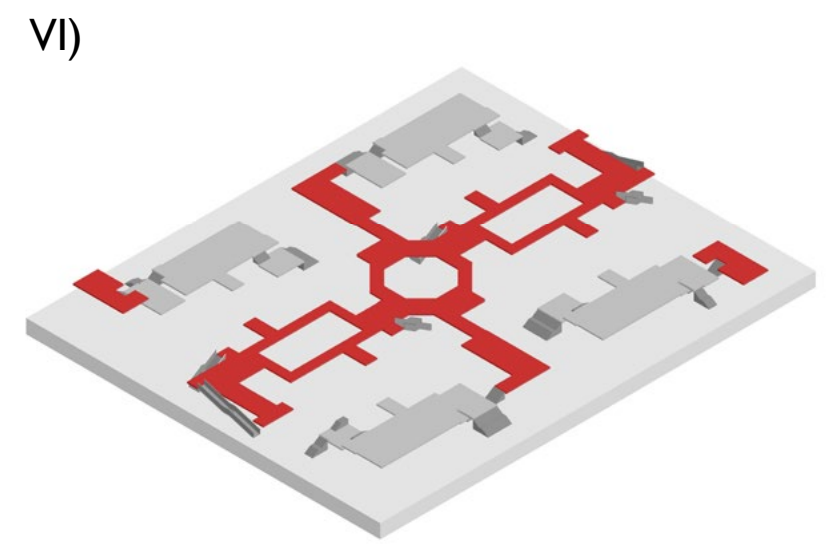
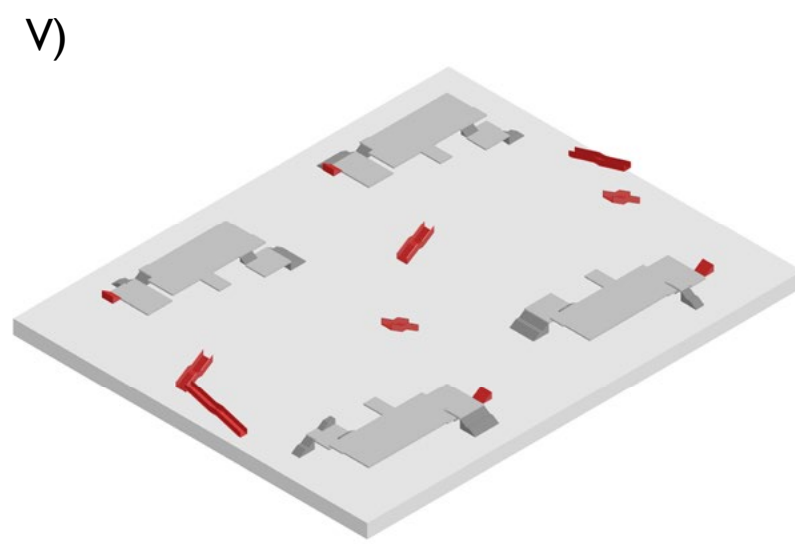
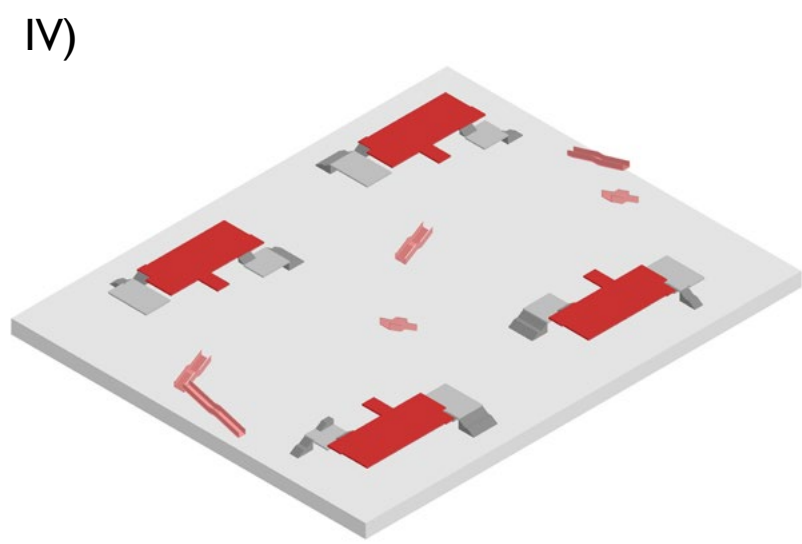
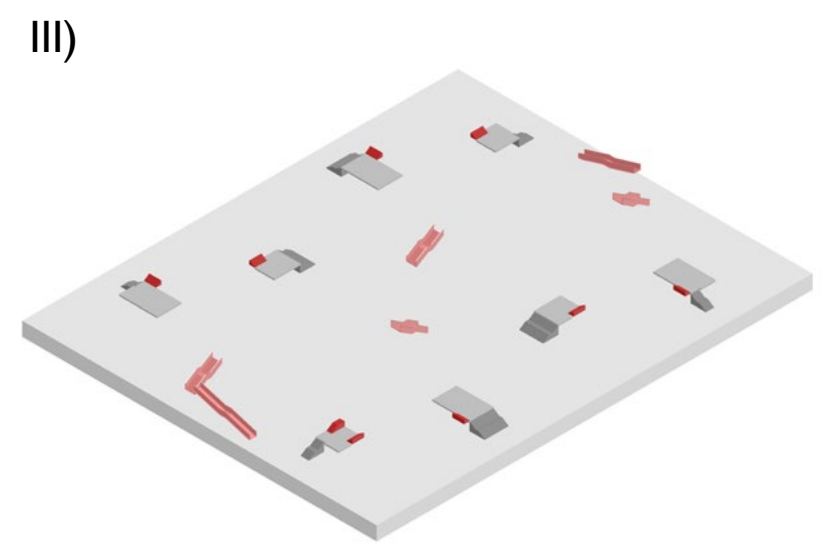
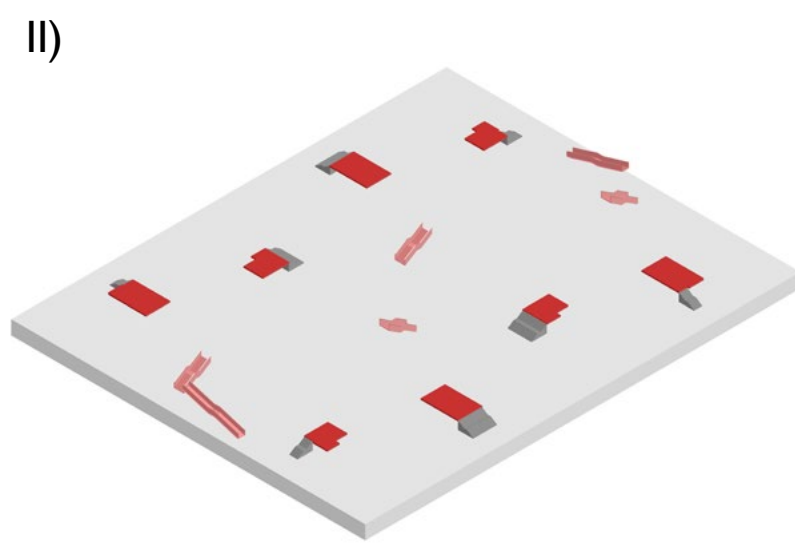
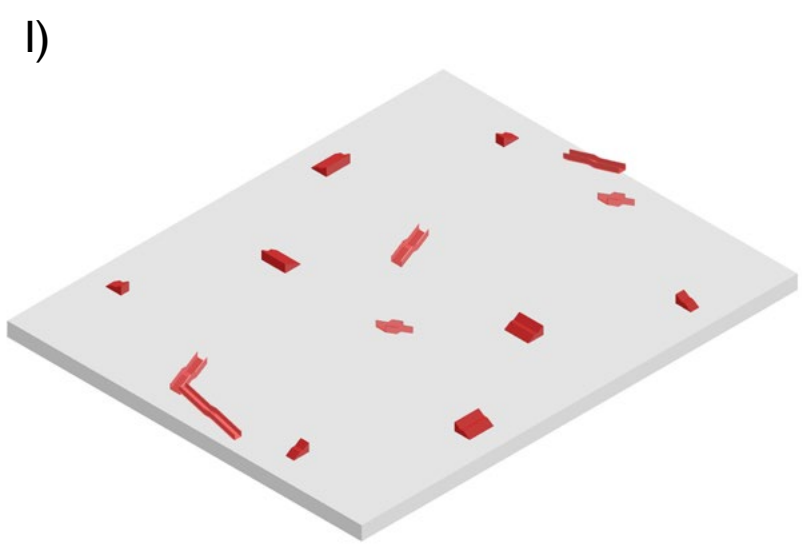


Façades - 1:500

Section

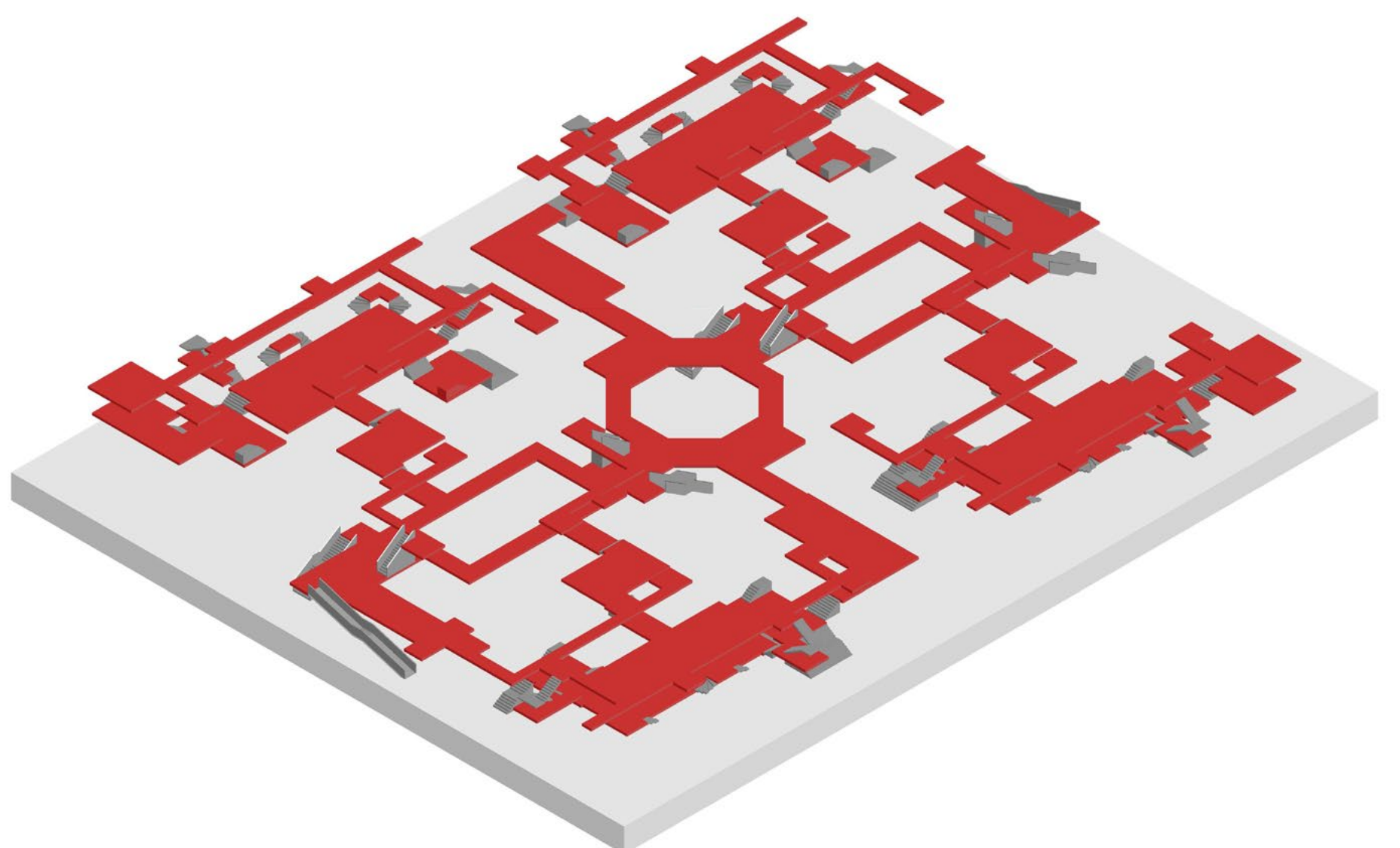


Section - 1:500

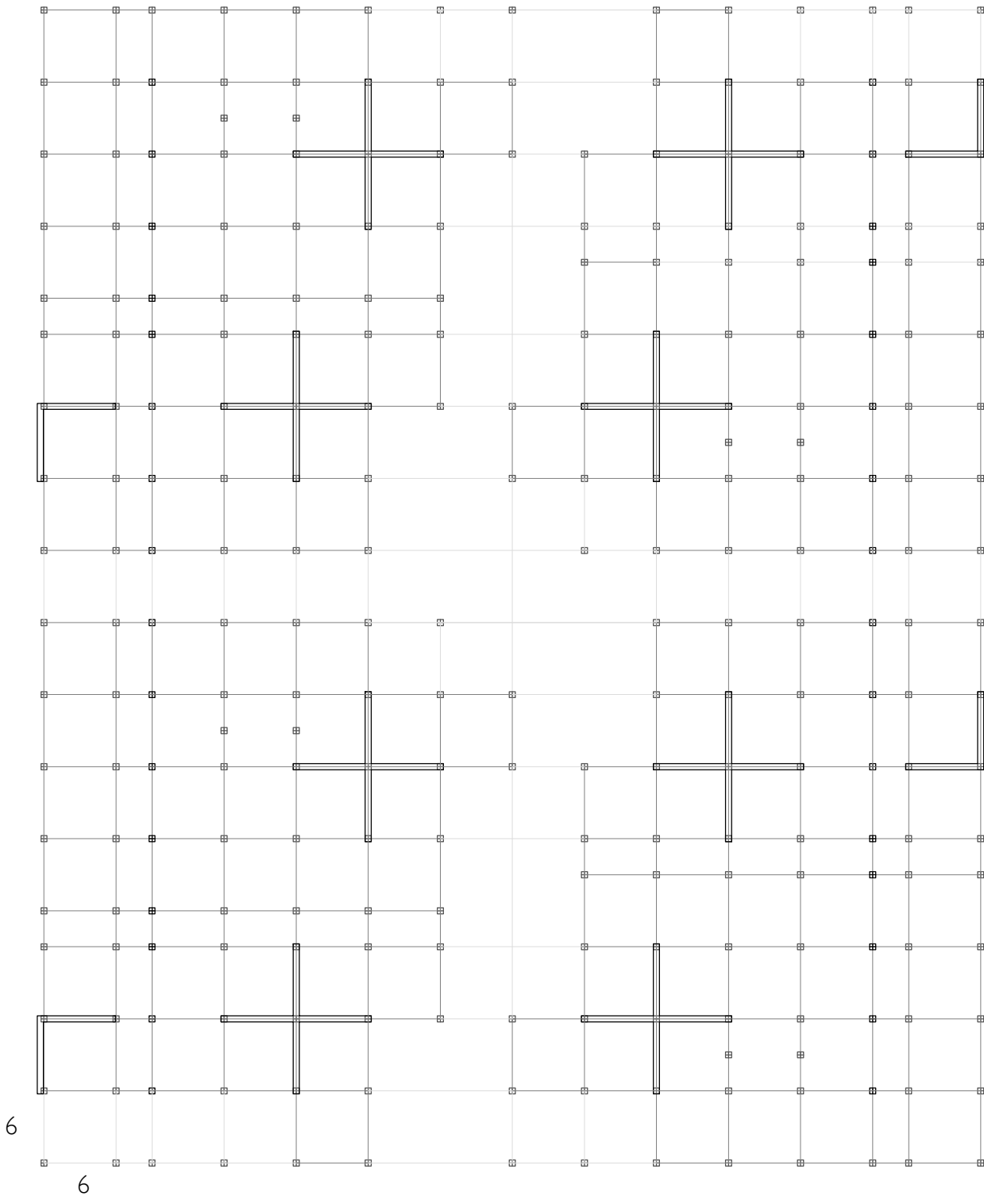


Circulation

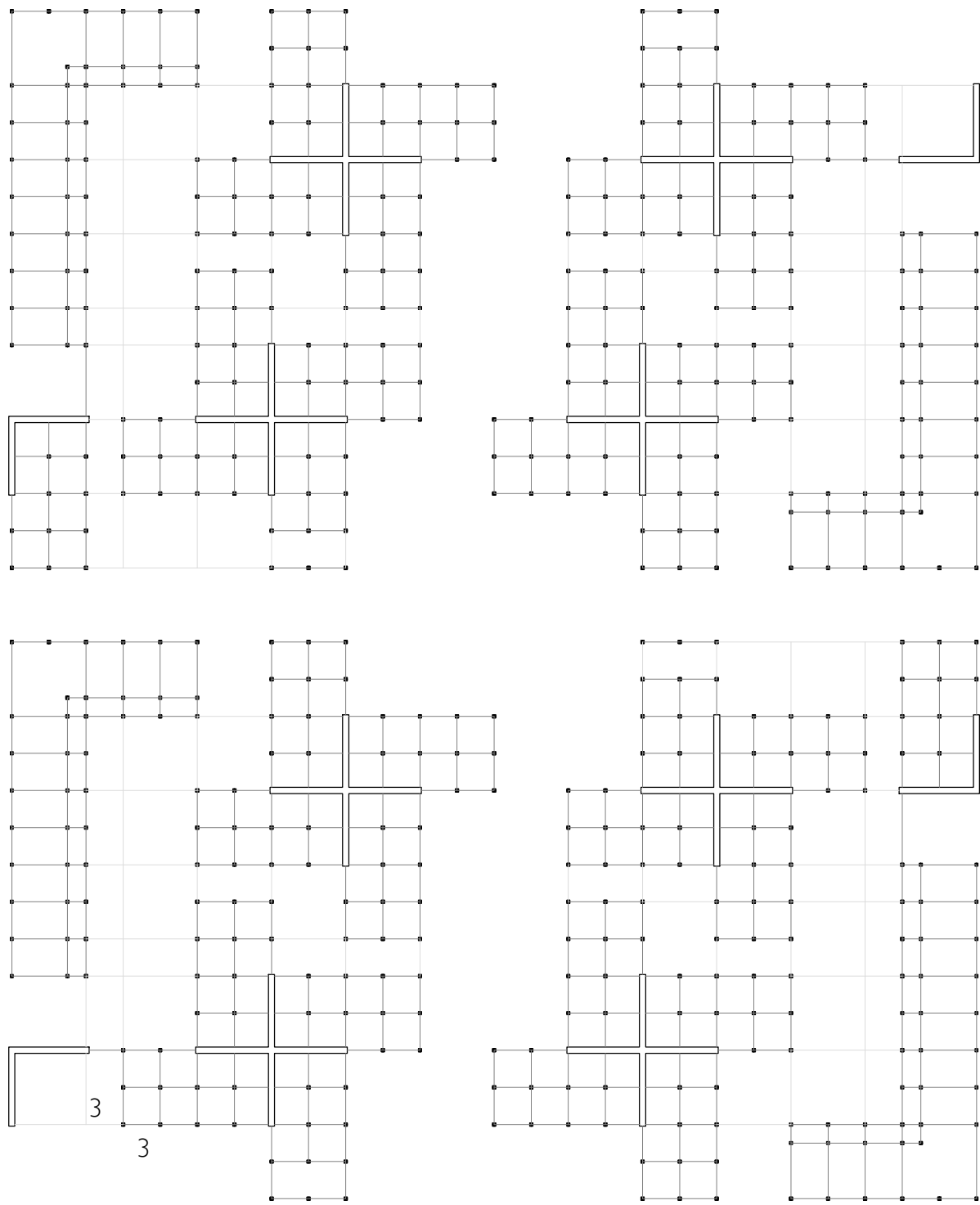
Circulation - 1:500



Structure



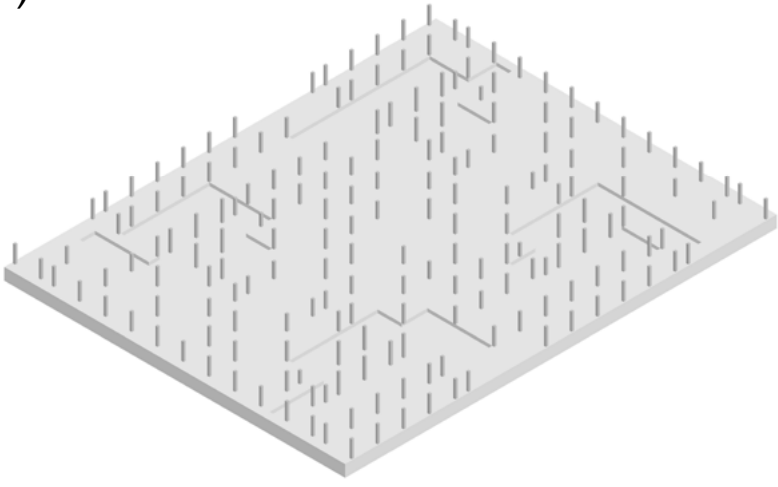
Groundfloor



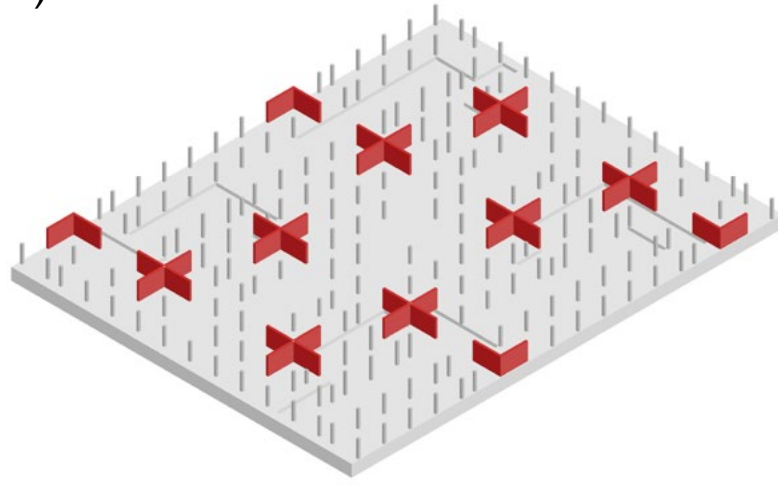
First floor

Structure - 1:500

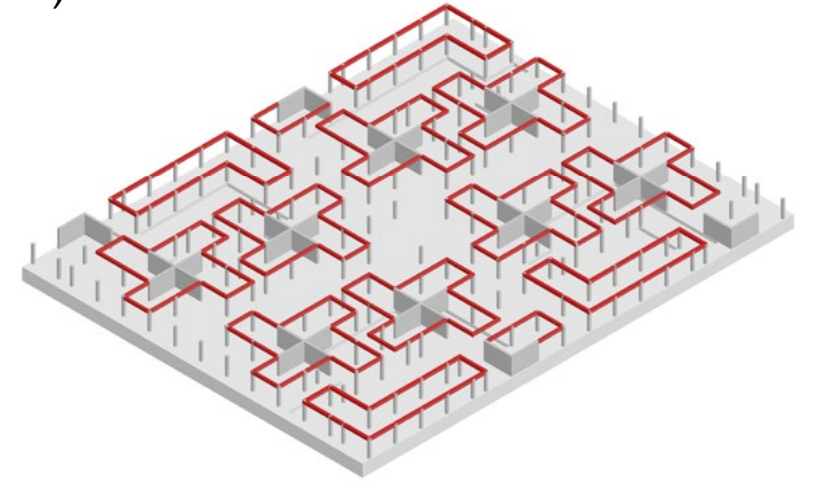
I)



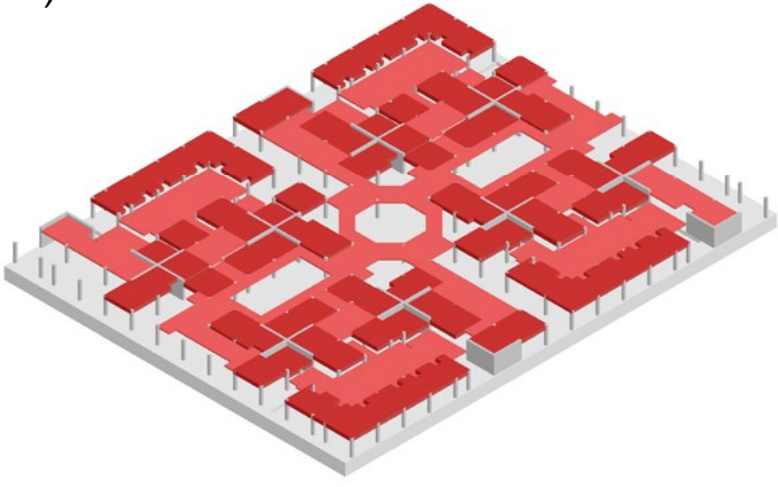
II)



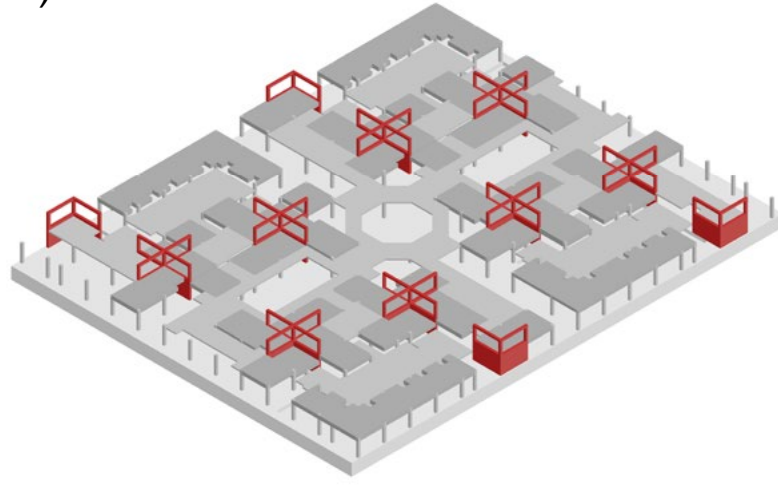
III)



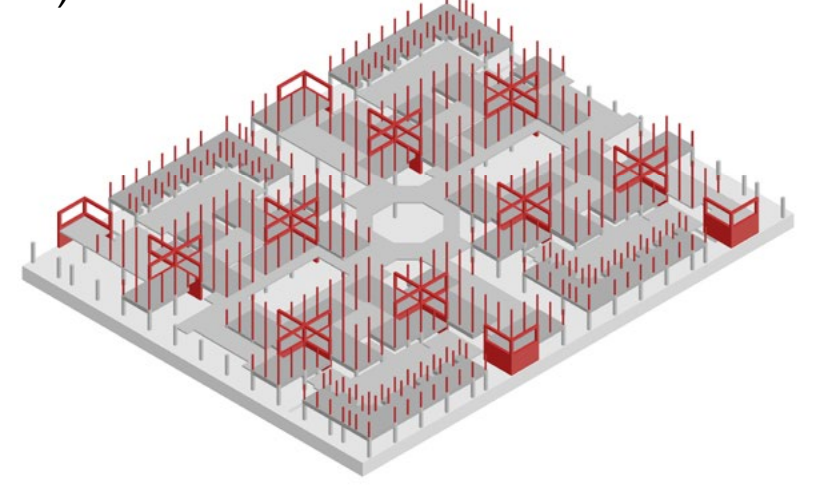
IV)



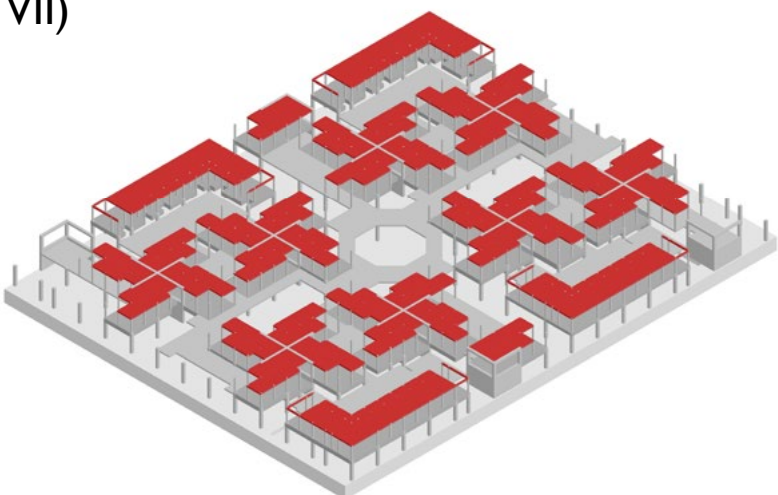
V)



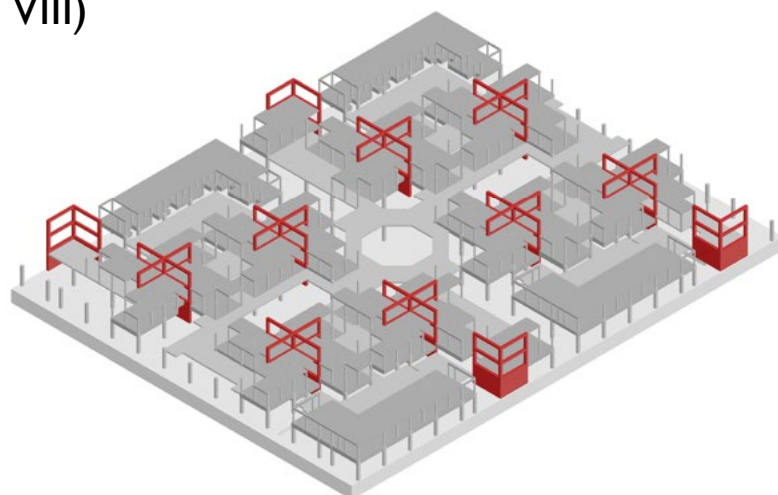
VI)



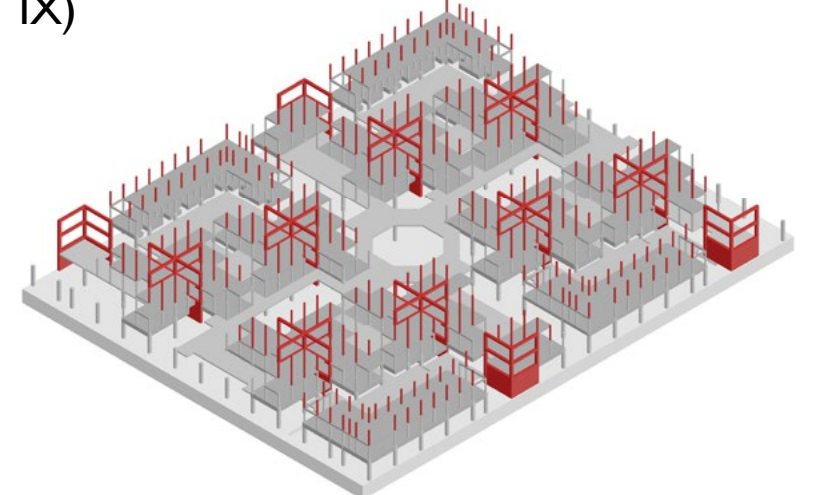
VII)



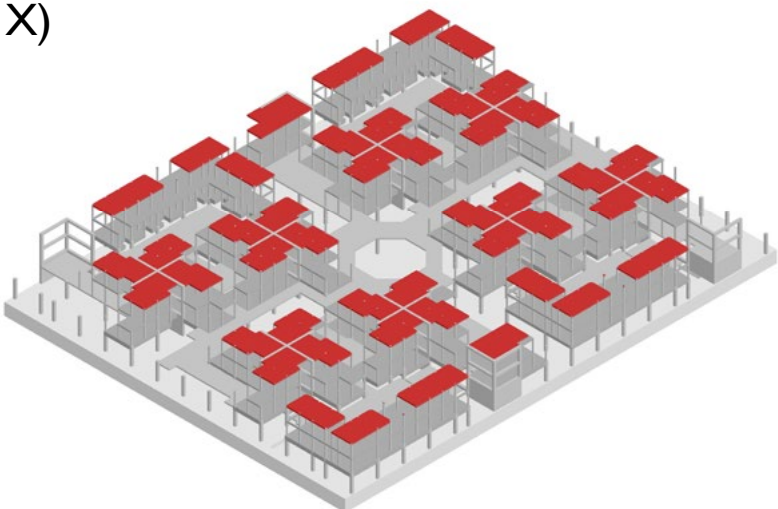
VIII)



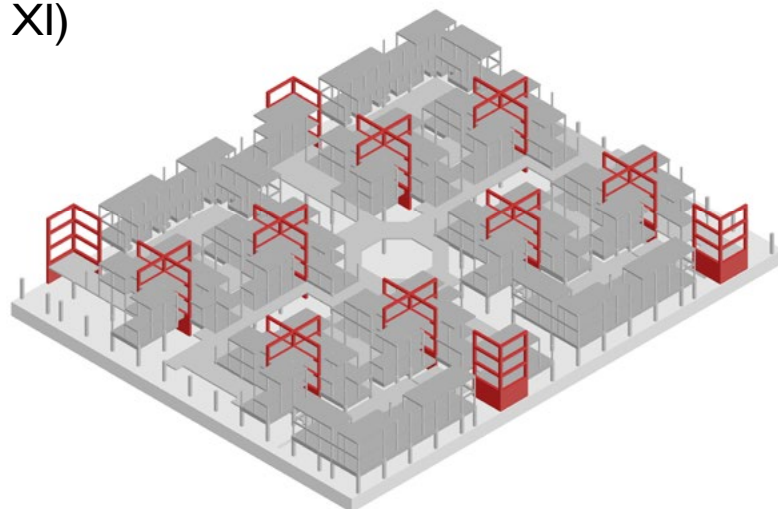
IX)



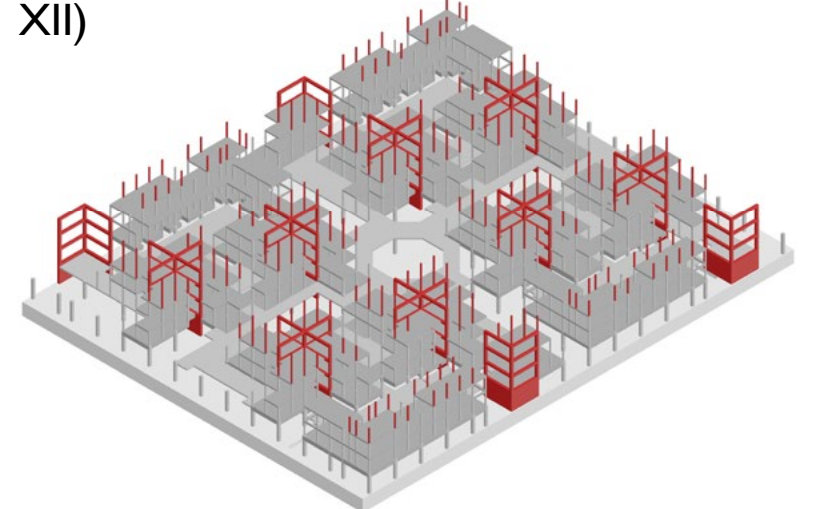
X)



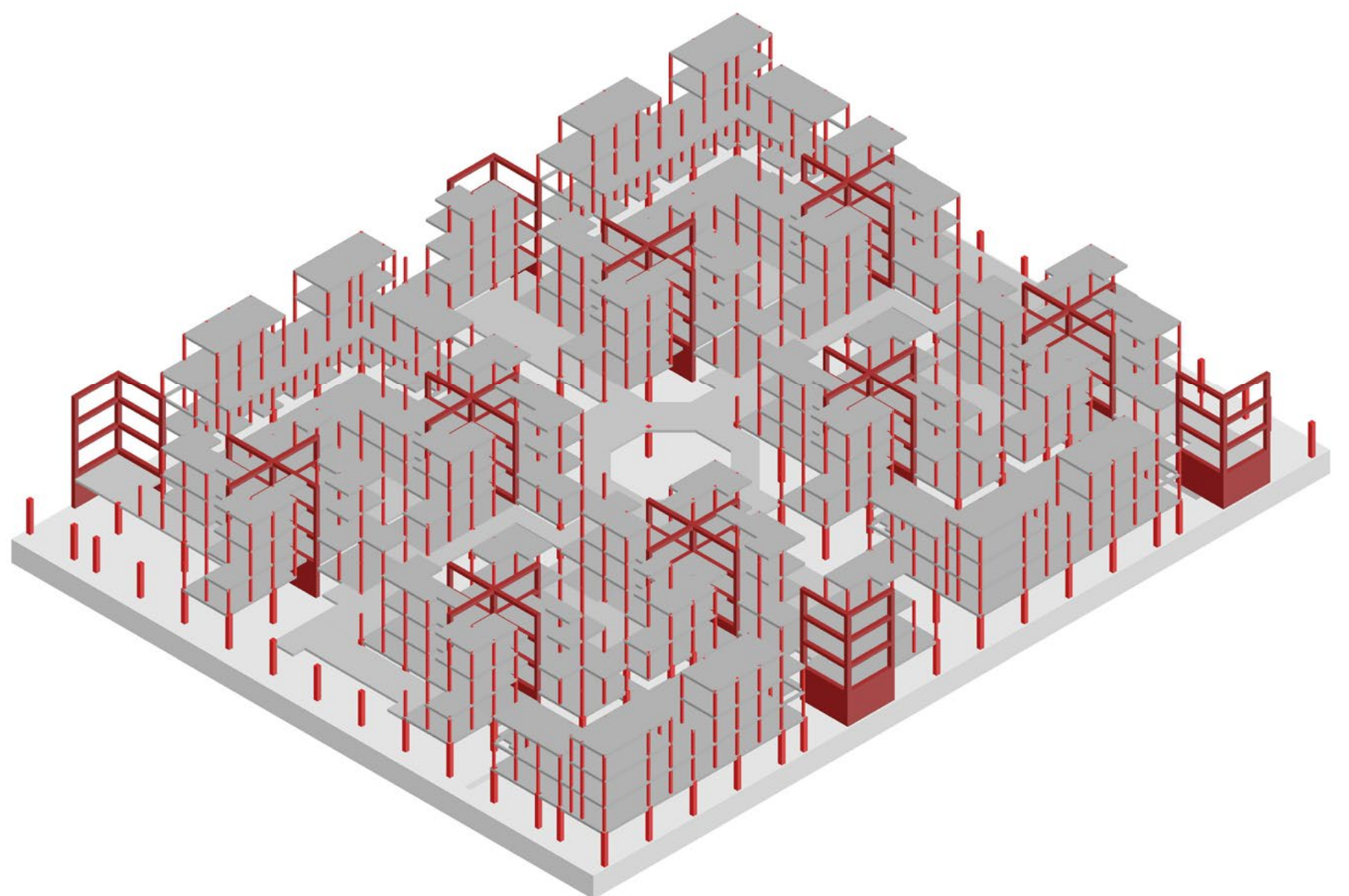
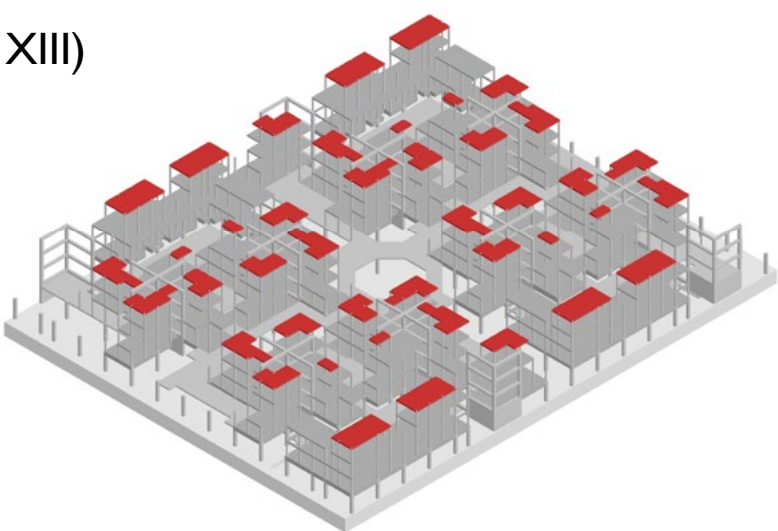
XI)



XII)

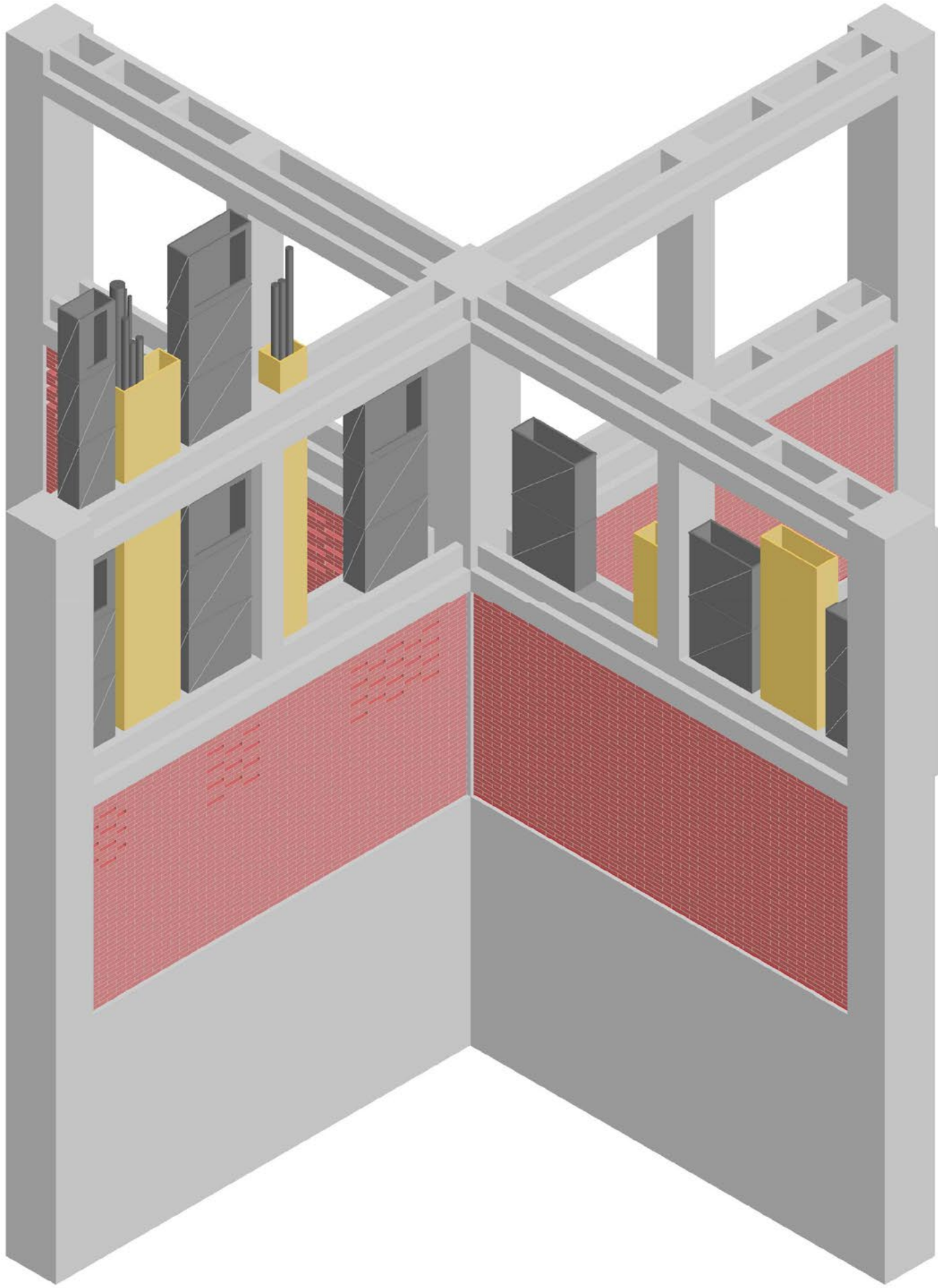


XIII)



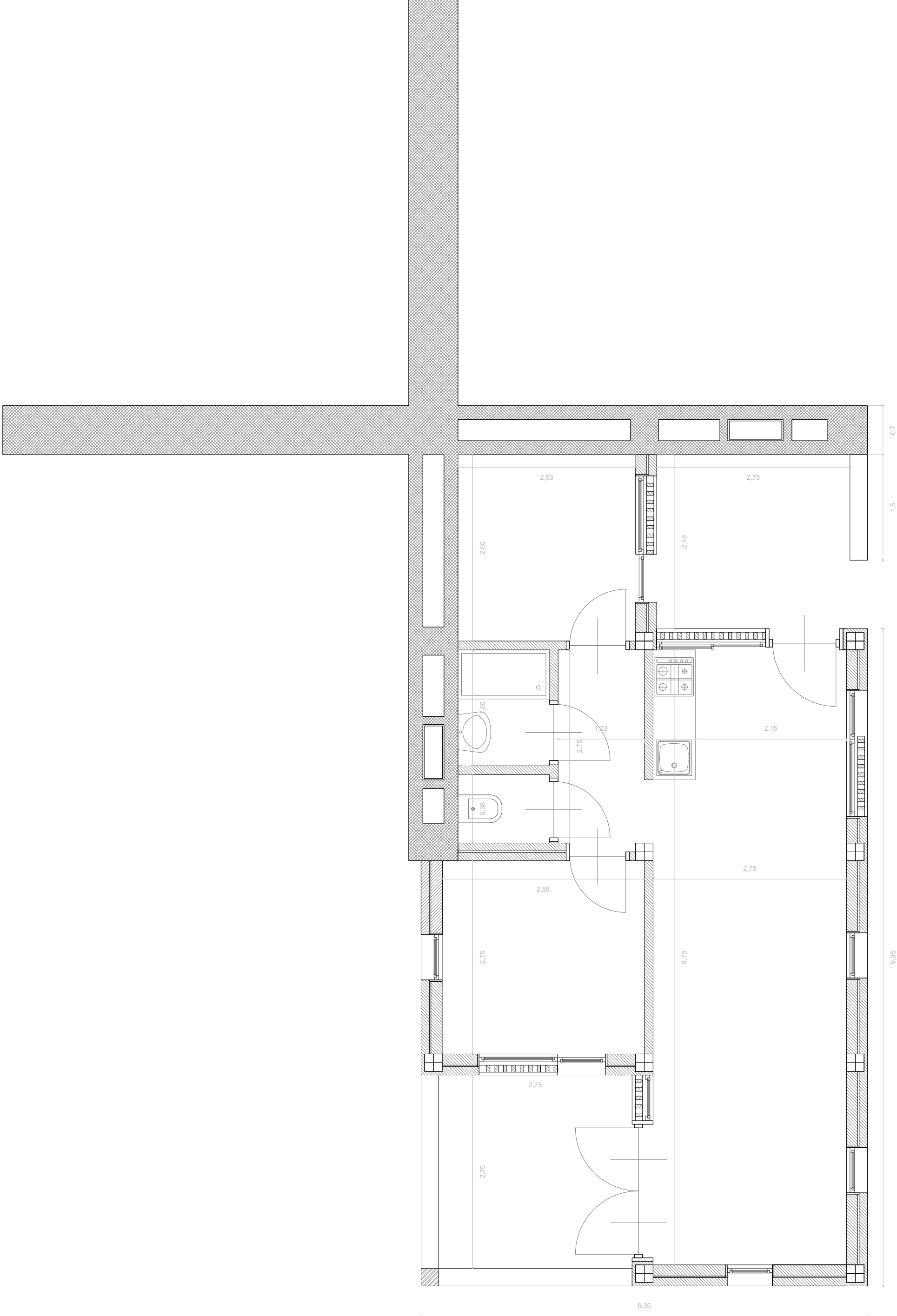
Structure - 1:500

Structural infrastructure



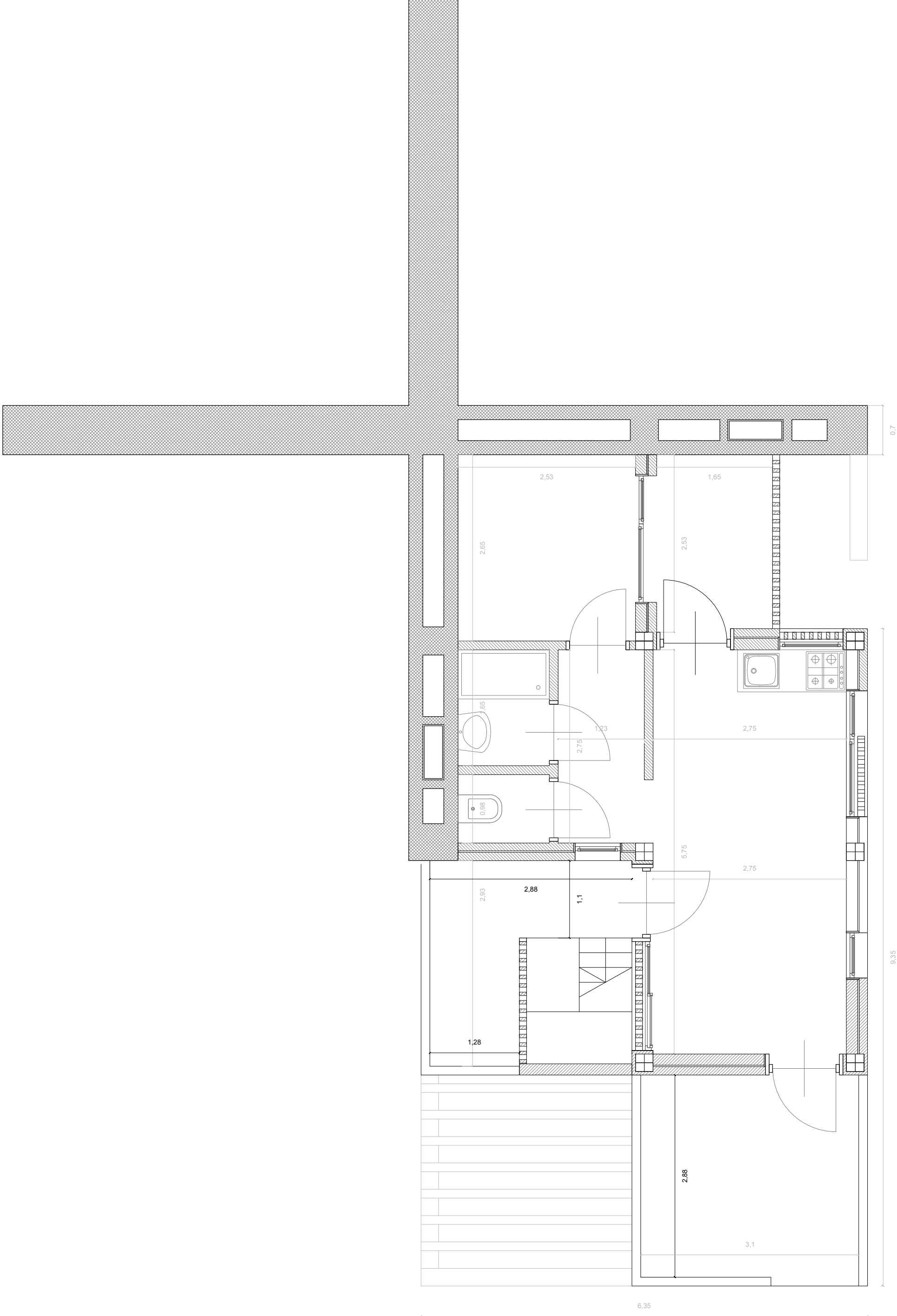
Structure - 1:500

Construction



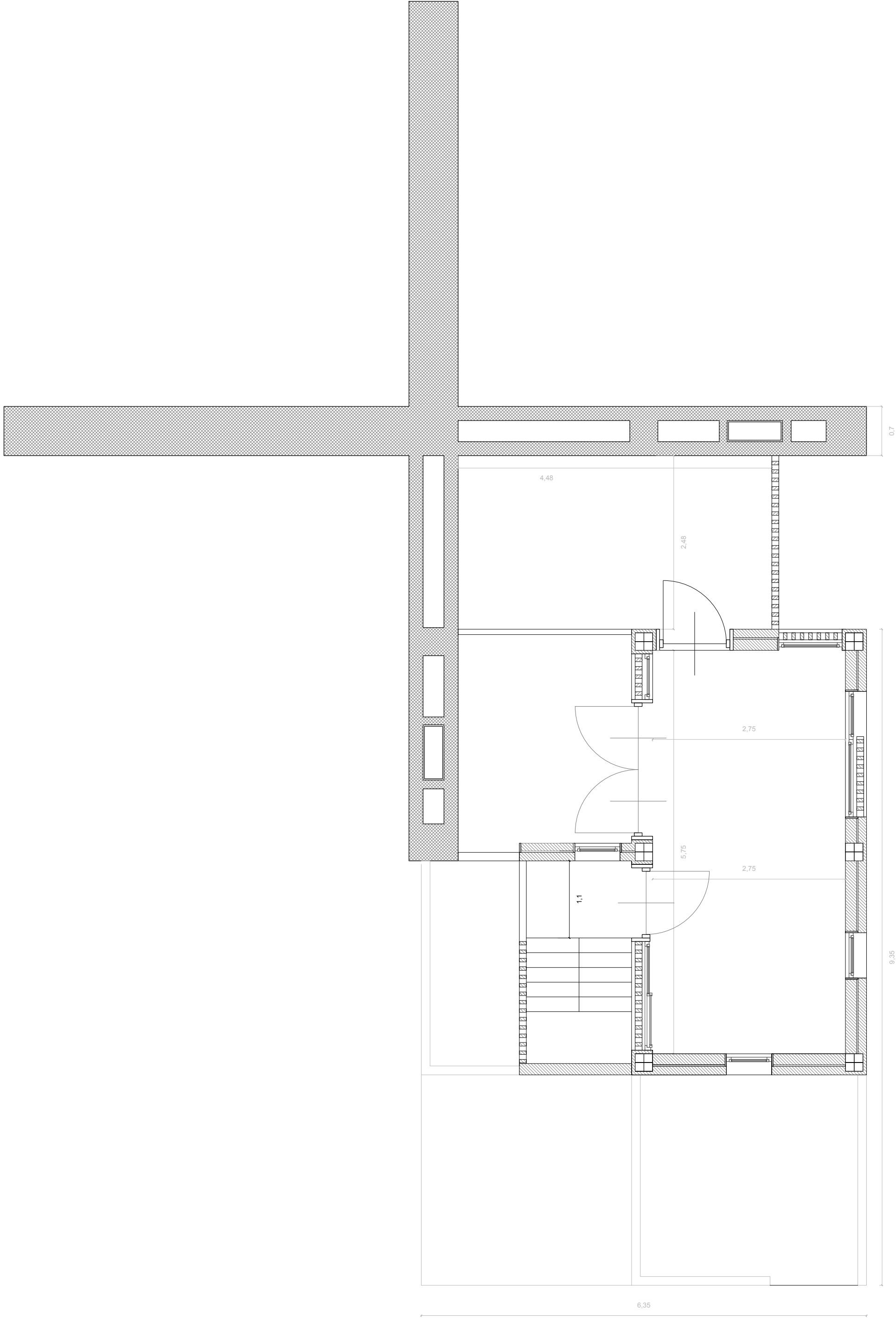
Floorplan - Level 0 - 1:50

Construction

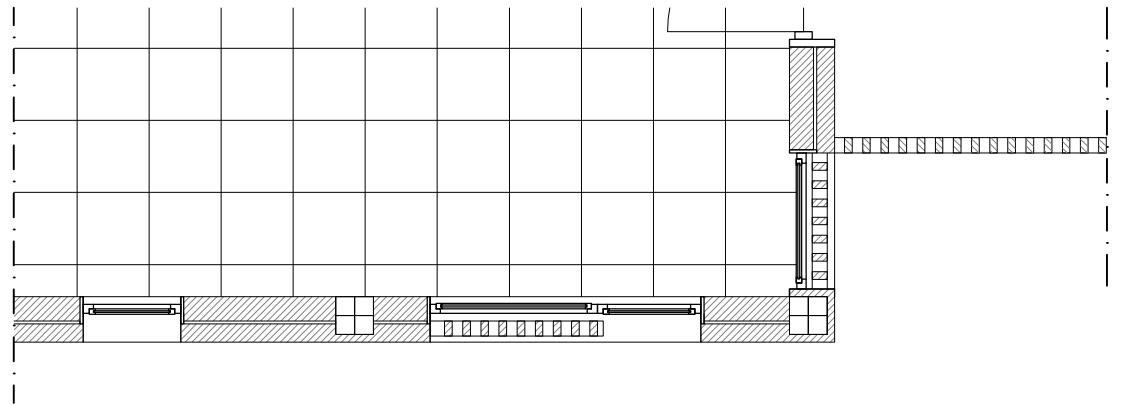
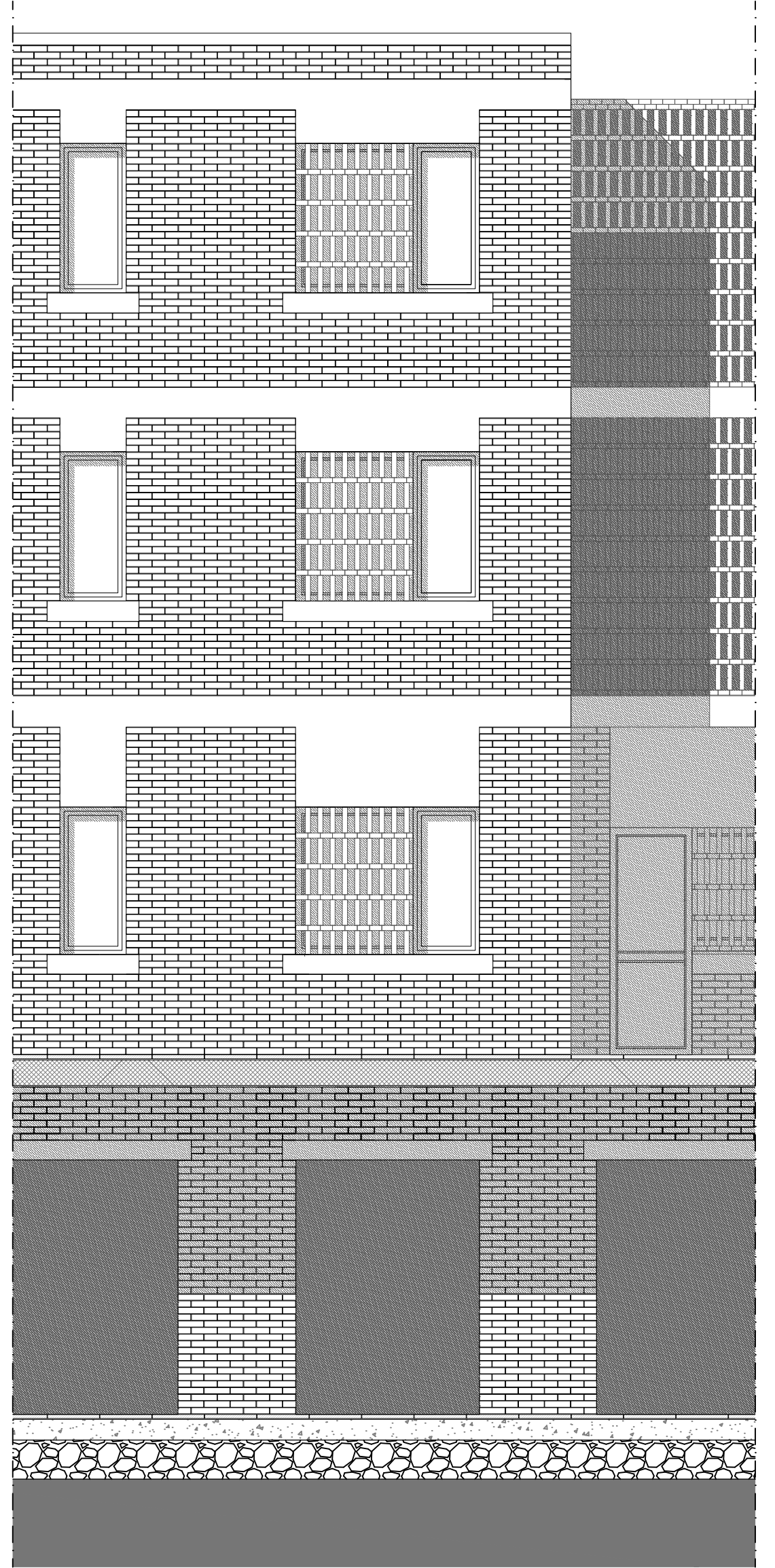
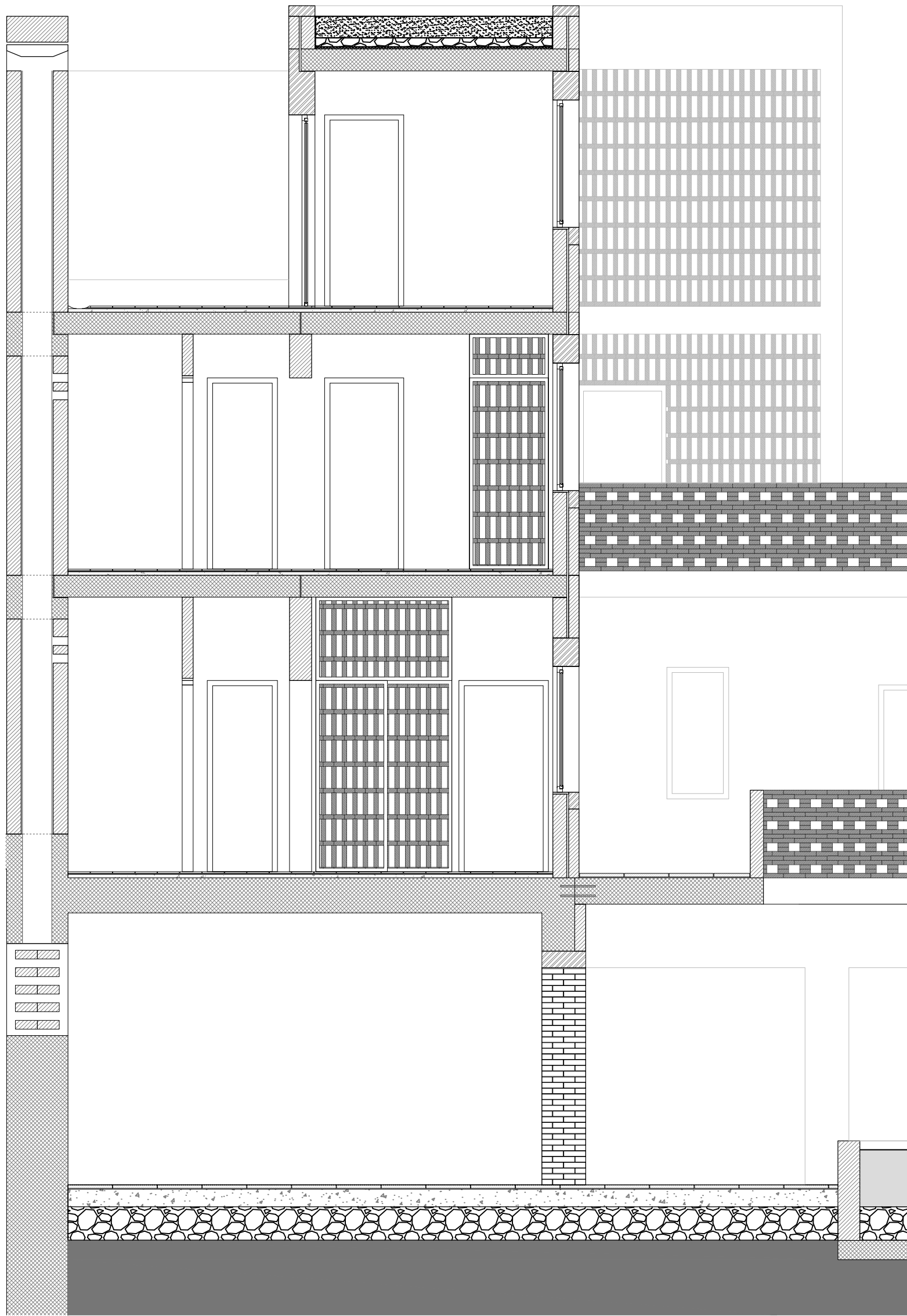


Floorplan - Level I - 1:50

Construction

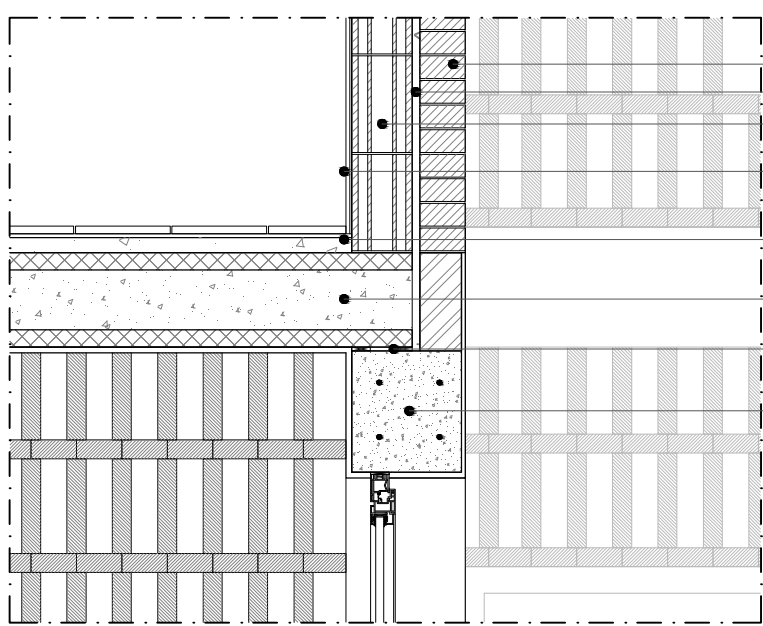


Floorplan - Level 2 - 1:50



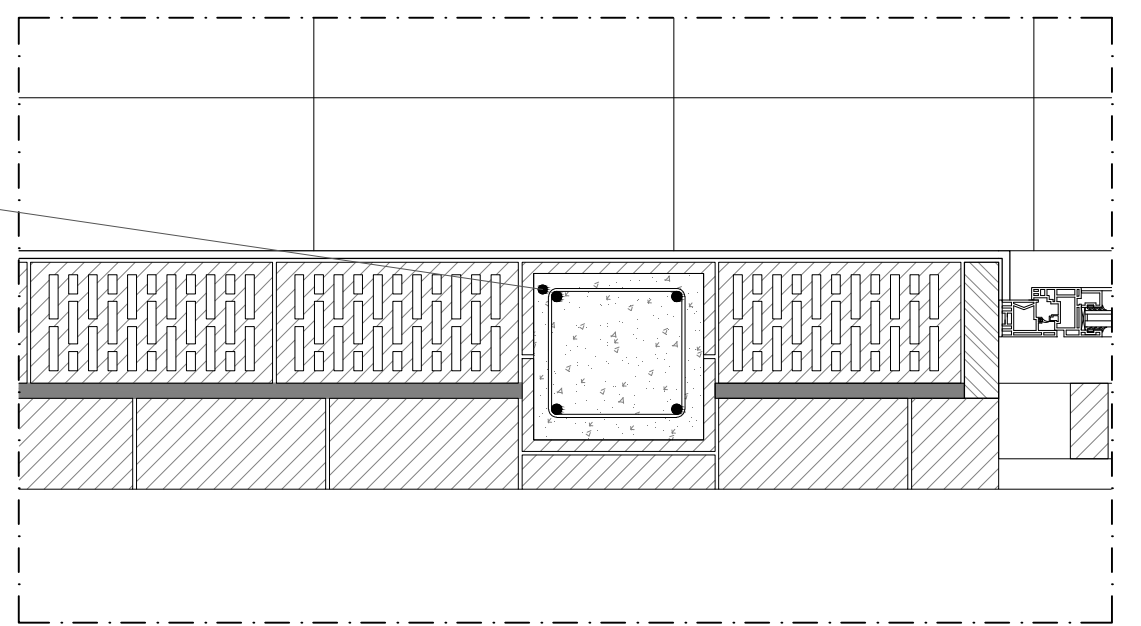
Section - 1:50

Technology



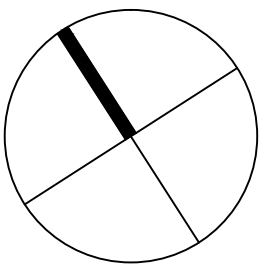
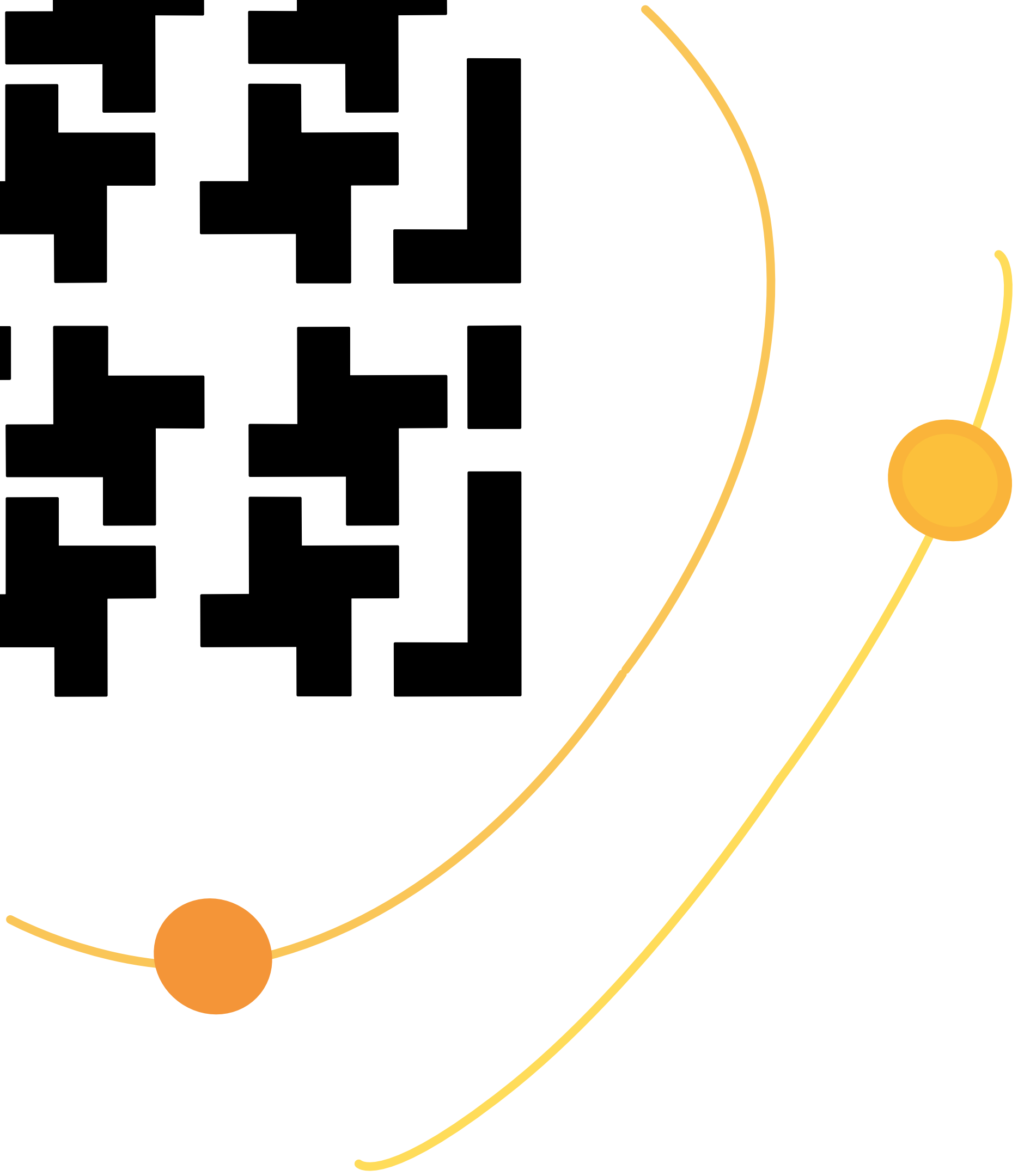
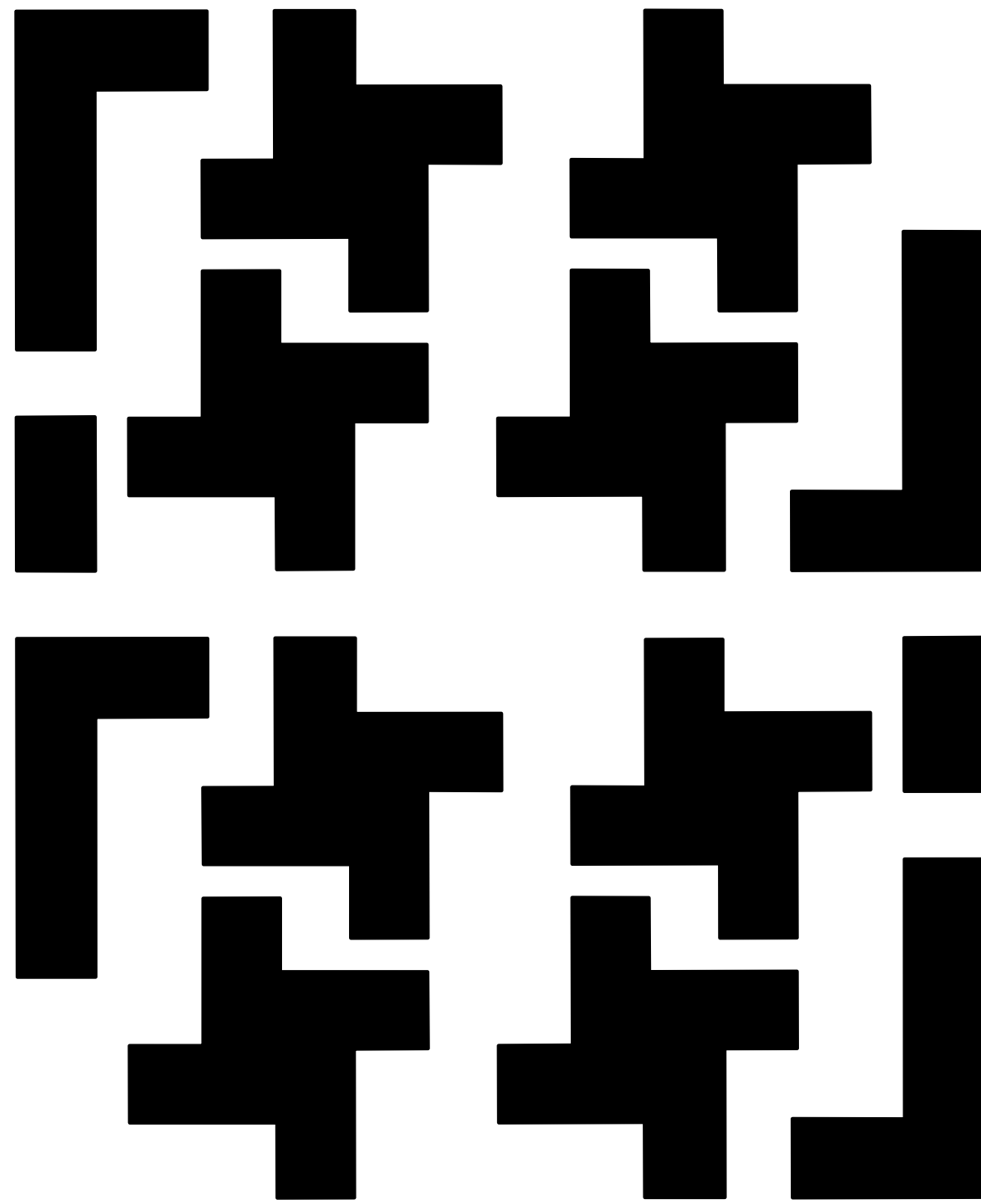
- Facing wythe clay masonry 10 cm
- Reinforcement grout
- Masonry column
- Backup wythe clay hollow masonry 16 cm
- Plaster
- Flooring
- Precast hollow core slab
- Neoprene bearing strip
- Precast concrete lintels

DETAIL 1:20

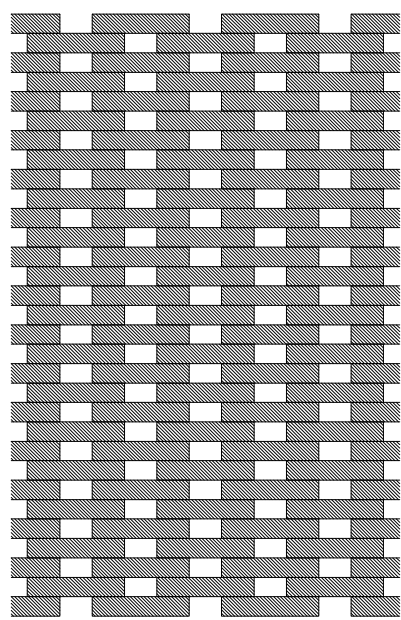


DETAIL 1:10

Orientation and Frames

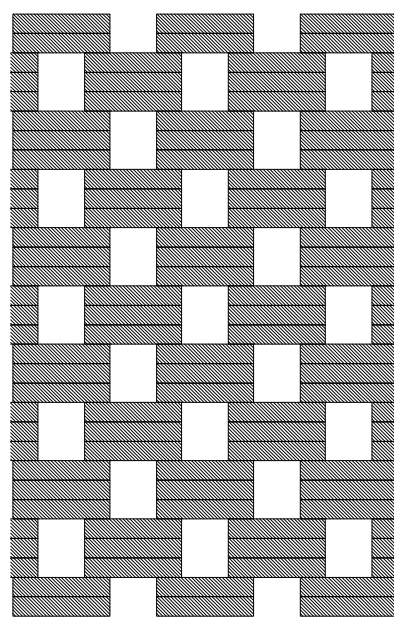


90 % exposition (South)

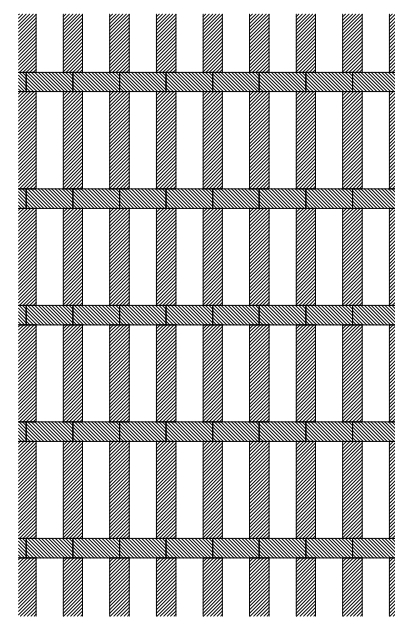


max shadows

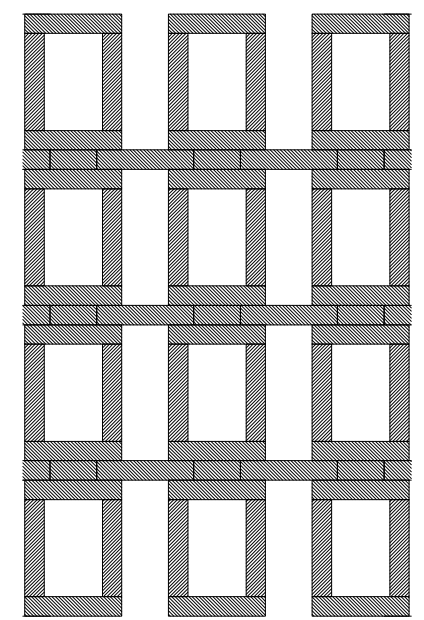
60 % exposition (SE)



40 % exposition (SW)

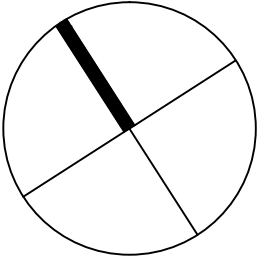
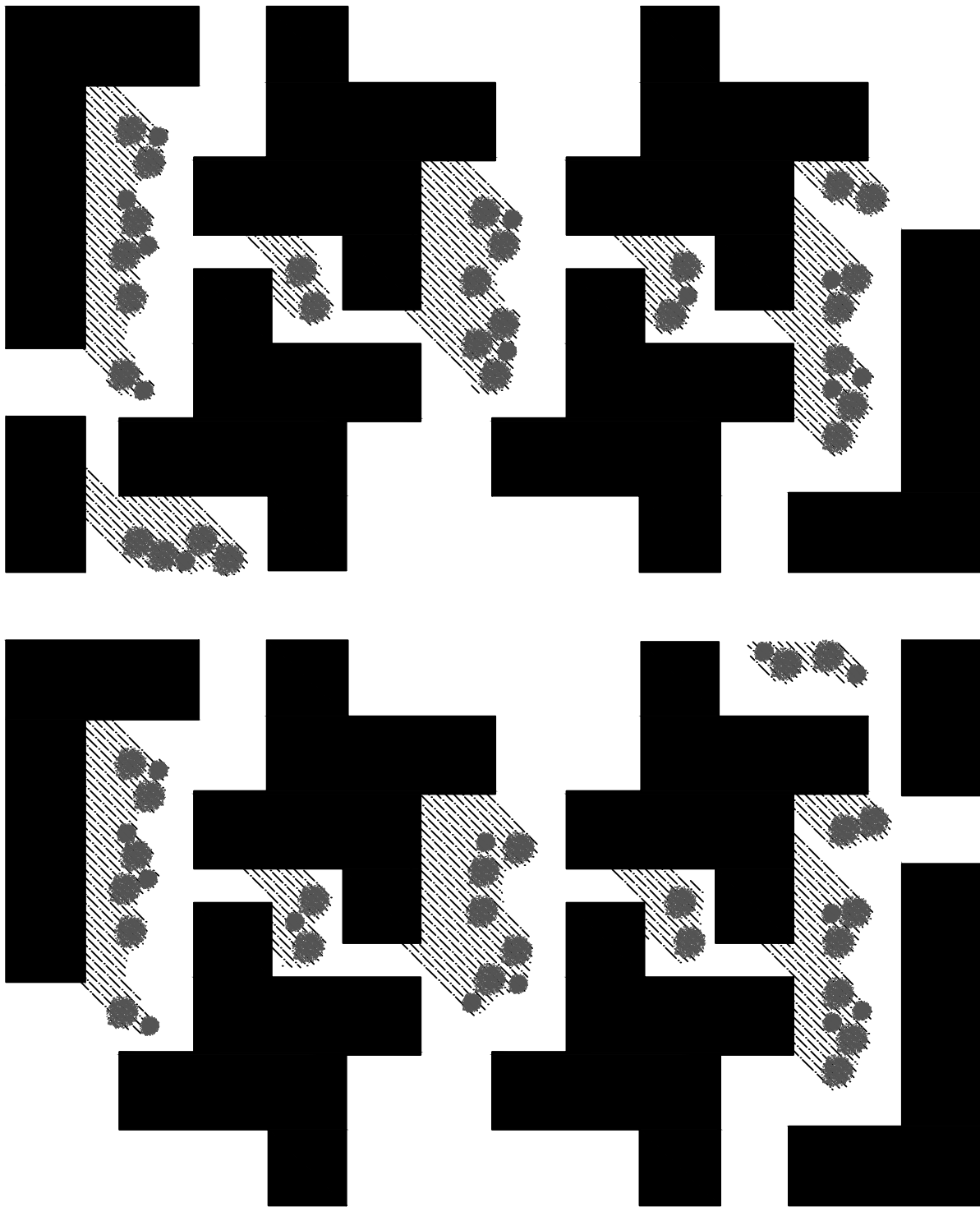


0 % exposition (North)

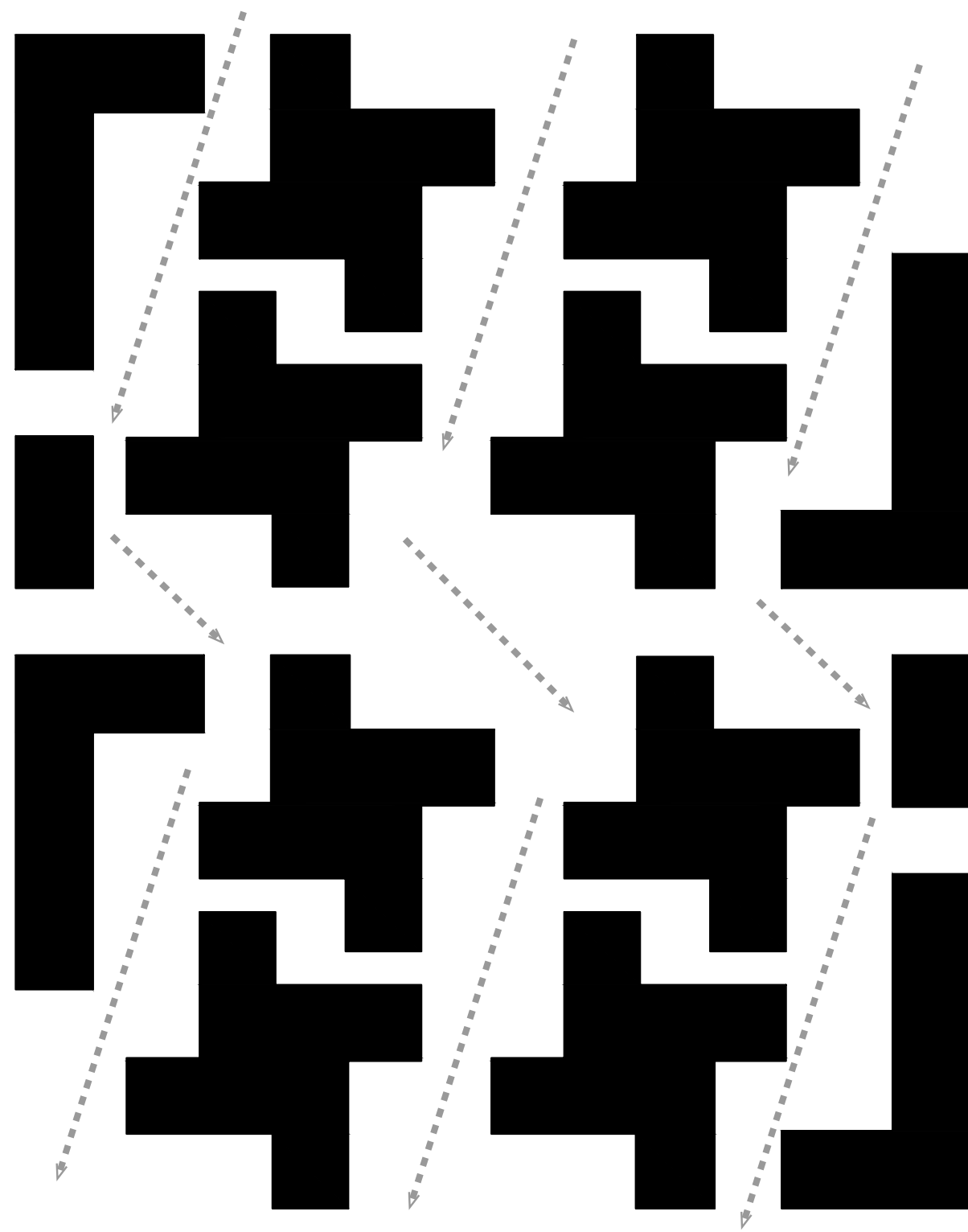


min shadows

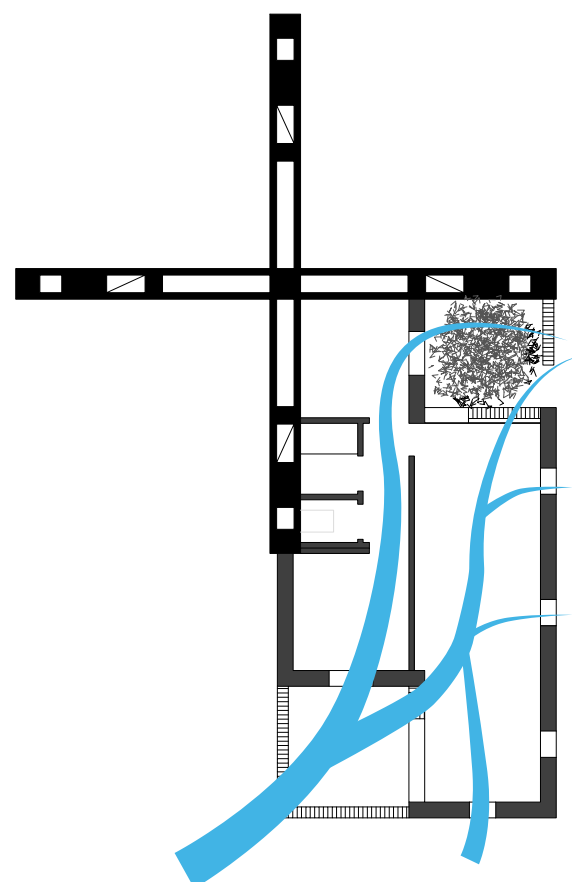
Shadows



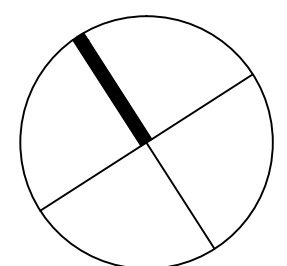
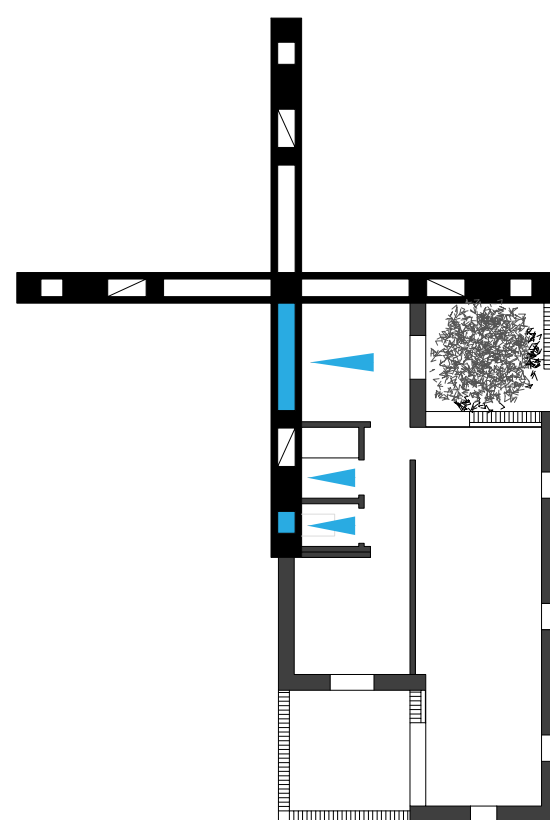
Ventilation



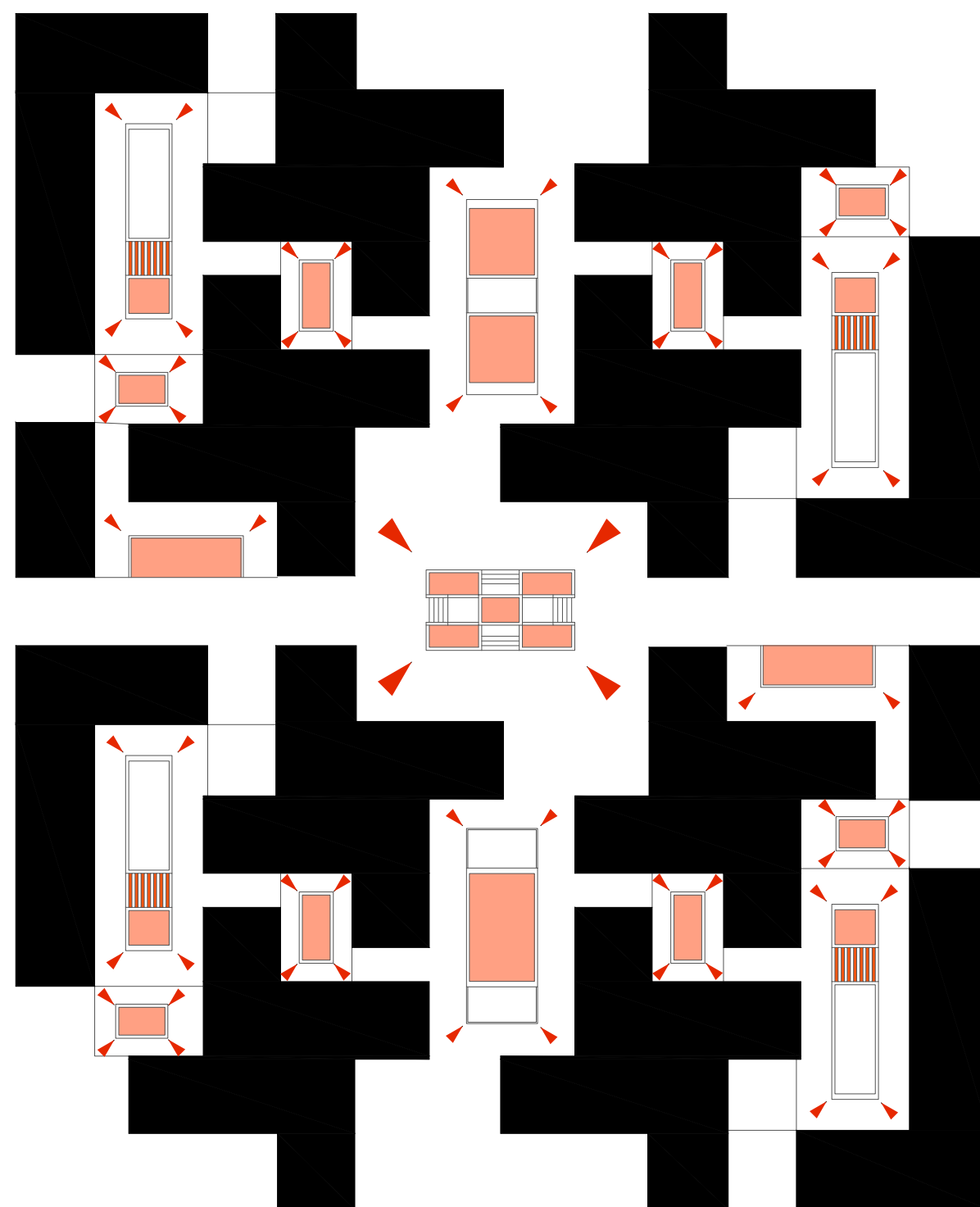
Natural cross ventilation
House



Natural ventilation (chimney effect)
Rooms attached to the cross



Water management



Captation water flows

