



# Mundanity and Spirituality

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Jelke Fokkinga [Building Technology]

Project Location: Nijmegen, Netherlands

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## 1.Theory

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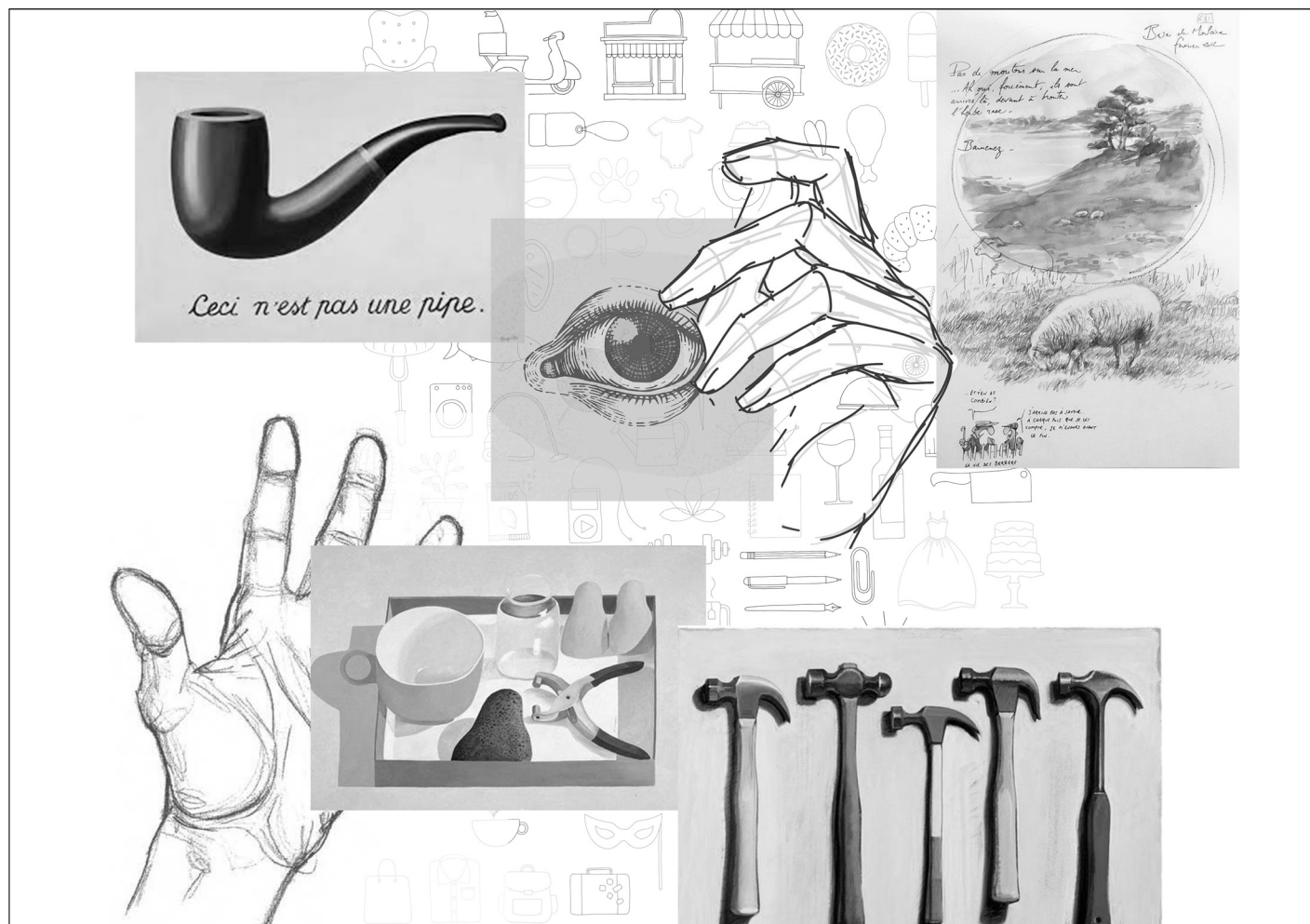
## 4.Materialization

Construction, Detailing and Facade



# 1.Theory

Bricolage , Mundanity and Spirituality



#### THE SAVAGE MIND

Almost all Hanunóo activities require an intimate familiarity with local plants and a precise knowledge of plant classification. Contrary to the assumption that subsistence level groups never use but a small segment of the local flora, ninety-three per cent of the total number of native plant types are recognized by the Hanunóo as culturally significant (Conklin I, p. 249).

This is equally true of fauna:

The Hanunóo classify all forms of the local avifauna into seventy-five categories ... (they) distinguish about a dozen kinds of snakes ... sixty-odd types of fish ... more than a dozen ... types of fresh and salt water crustaceans ... a similar number of ... types of arachnids and myriapods ... The thousands of insect forms present are grouped by the Hanunóo into a hundred and eight named categories, including thirteen for ants and termites ... Salt water molluscs ... of more than sixty classes are recognized by the Hanunóo, while terrestrial and fresh water types number more than twenty-five ... Four distinct types of bloodsucking leeches are distinguished ...: altogether 461 animal types are recorded (id., pp. 67-70).

A biologist writes the following about pygmies of the Philippines:

Another characteristic of Negrito life, a characteristic which strikingly demarcates them from the surrounding Christian lowlanders, is their inexhaustible knowledge of the plant and animal kingdoms. This lore includes not only a specific recognition of a phenomenal number of plants, birds, animals, and insects, but also includes a knowledge of the habits and behaviour of each. ...

The Negrito is an intrinsic part of his environment, and what is still more important, continually studies his surroundings. Many times I have seen a Negrito, who, when not being certain of the identification of a particular plant, will taste the fruit, smell the leaves, break and examine the stem, comment upon its habitat, and only after all of this, pronounce whether he did or did not know the plant.

The natives are also interested in plants which are of no direct use to them, because of their significant links with the animal and insect world, and having shown this, the same author continues:

The acute observation of the pygmies and their awareness of the inter-relationships between the plant and animal life ... is strikingly pointed out by their discussions of the living habits of bats. The *tididin* lives on the dry leaves of palms, the *dikidik* on the underside of the leaves of the wild banana, the *lilit* in bamboo clumps, the *kolumboy* in holes in trees, the *konanaba* in dark thickets, and so forth. In this manner, the Pinatubo Negritos can distinguish the habits of more than fifteen species of bats. Of course, the classification of bats, as well as of insects, birds, animals, fish and plants, is determined primarily by their actual physical differences and/or similarities.

#### THE SCIENCE OF THE CONCRETE

names of at least four hundred and fifty plants, seventy-five birds, most of the snakes, fish, insects, and animals, and of even twenty species of ants ...\* and the botanical knowledge of the *mananambal*, the 'medicine men and women, who use plants constantly in their practice, is truly astounding (R. B. Fox, pp. 187-8).

Of a backward people of the Tyukyu archipelago, we read:

Even a child can frequently identify the kind of tree from which a tiny wood fragment has come and, furthermore, the sex of that tree, as defined by Kabiran notions of plant sex, by observing the appearance of its wood and bark, its smell, its hardness, and similar characteristics. Fish and shellfish by the dozen are known by individually distinctive terms, and their separate features and habits, as well as the sexual differences within each type, are well recognized (Smith, p. 150).

Several thousand Coahuila Indians never exhausted the natural resources of a desert region in South California, in which today only a handful of white families manage to subsist. They lived in a land of plenty, for in this apparently completely barren territory, they were familiar with no less than sixty kinds of edible plants and twenty-eight others of narcotic, stimulant or medicinal properties (Barrows). A single Seminol informant could identify two hundred and fifty species and varieties of plants (Sturtevant). Three hundred and fifty plants known to the Hopi Indians and more than five hundred to the Navaho have been recorded. The botanical vocabulary of the Subanon of the Southern Philippines greatly exceeds a hundred terms (Frake) and that of the Hanunóo approaches two thousand.† Sillans, working with a single informant in the Gabon, recently published an ethno-botanical list of about eight thousand terms, distributed between the languages or dialects of twelve or thirteen neighbouring tribes (Walker and Sillans). The, for the most part unpublished, results of Marcel Griaule and his co-workers in the Sudan promise to be equally impressive.

Their extreme familiarity with their biological environment, the passionate attention which they pay to it and their precise knowledge of it has often struck inquirers as an indication of attitudes and preoccupations which distinguish the natives from their white visitors. Among the Tewa Indians of New Mexico:

\* Also at least forty-five types of edible ground-mushrooms and ear-fungi (l.c., p. 231) and on the technological plane, more than fifty types of arrows (id., pp. 265-8).

## Reading Bricolage

Mundanity , The Science of the Concrete





## Reading Bricolage

Robinson Crusoe , A Craftsman for Living

<https://michaelbauwens.net/2008/11/04/robinson-crusoe-and-friday/>





## Reading Bricolage

Myth, A Destination of Bricolage

The characteristic feature of **mythical thought** is that it expresses itself by means of a heterogeneous repertoire which, even if extensive, is nevertheless limited. It has to use this repertoire, however, whatever the task in hand because it has nothing else at its disposal. Mythical thought is therefore a kind of **intellectual 'bricolage'** - which explains the relation which can be perceived between the two.

The Savage Mind by Claude Lévi-Strauss, P17

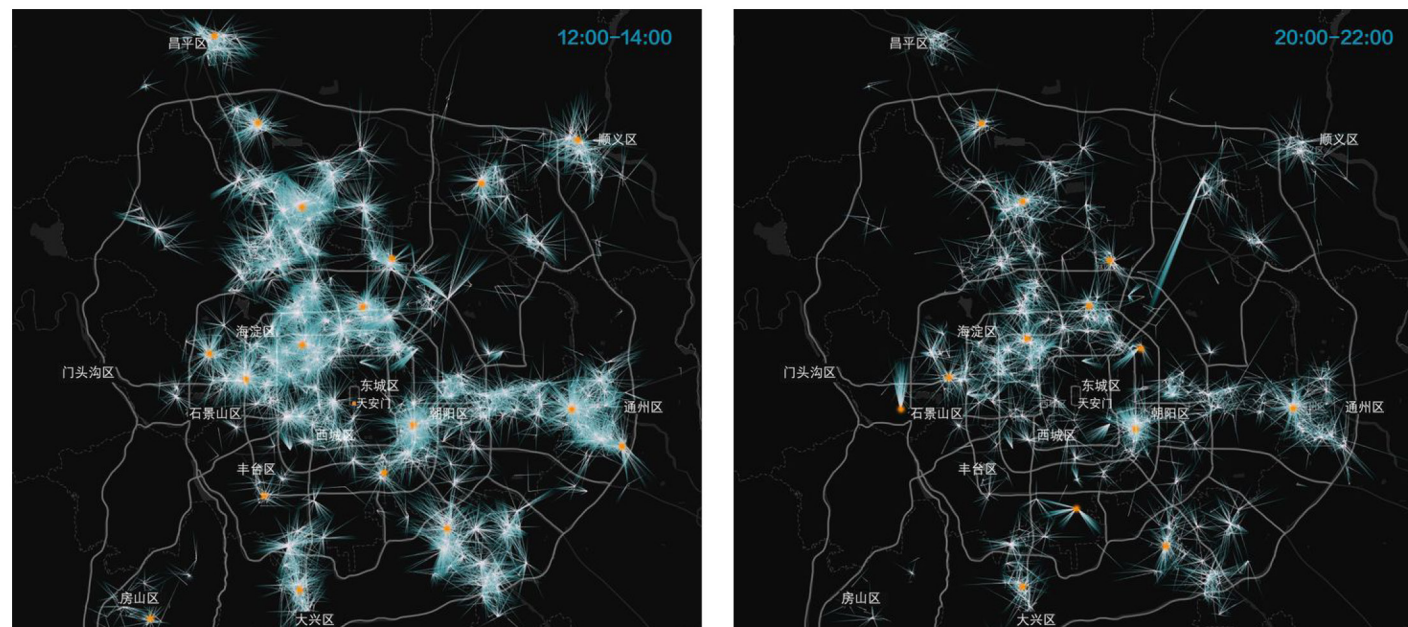
How we understand these two abstract word

## Two Key Words

Mundanity and Spirituality

Why we recall them

Do they still have meaning for now



# Mundanity

The Absence of Proximity

Diagram showing the Activity level of restaurant in different time in Beijing. Date comes from takeaway app. As we can see in this picture, active restaurant are moving in different times. Because people all eat delivery food in their office or home. So the traditional concept of restaurant is transforming.

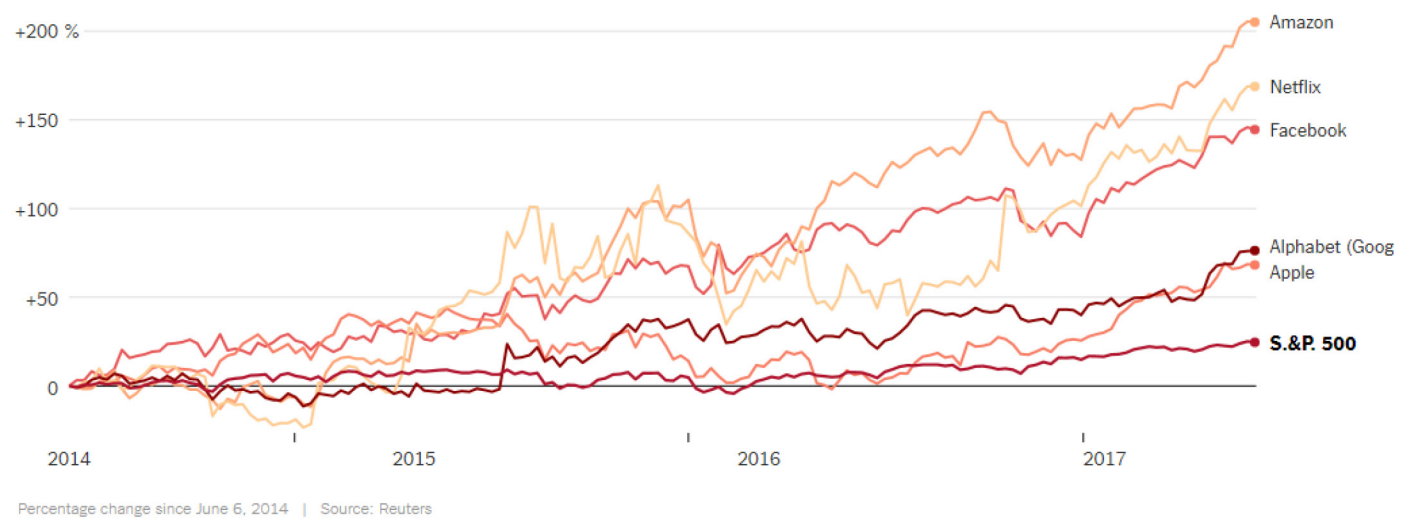
Source from <https://zhuanlan.zhihu.com/p/73904507>





## Mundanity

Shanzhai, A Bricolage Way to Produce?



# Mundanity

The Lost of Freedom

One diagram shows data monopolies levels in some big net companies  
 Source from article: The age of data monopolies  
<https://www.mawer.com/the-art-of-boring/blog/the-age-of-data-monopolies/>

What we've lost,, is a mundanity that truly mobilizes individual engagement and modifies lives according to one's subjective desires.

Mundanity

The Lost of Freedom





From movie The Piano in a Factory

## Mundanity

A Way to Dwelling

1. Building is really dwelling.

2. Dwelling is the manner in which mortals are on the earth.

3. Building as dwelling unfolds into the building that cultivates growing things and the building that erects buildings.

Building Dwelling Thinking, Martin Heidegger ,  
1993

# Mundanity

A Way to Dwelling

# Mundanity

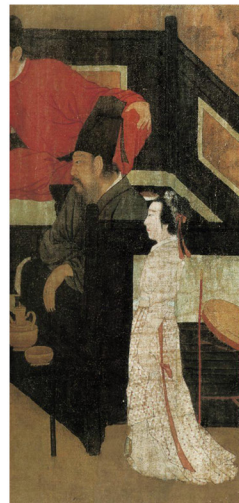
A Type of Space





# Mundanity

A Type of Space





# Mundanity

A Type of Space





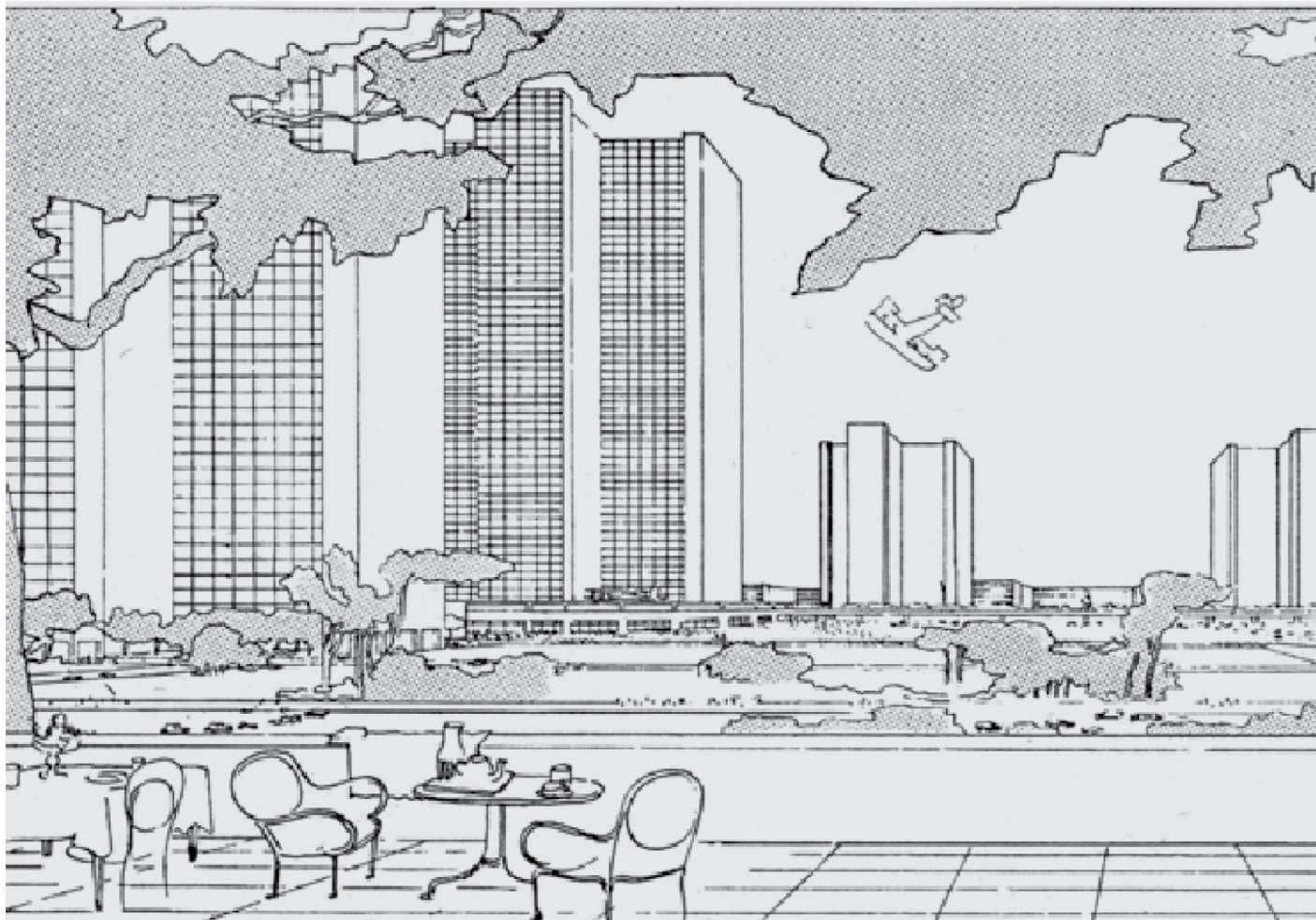


# Mundanity

A Type of Space

# Spirituality

The Modern Architecture and Humanity



\*Le Corbusier. La Ville Radieuse : Éléments D'une Doctrine D'urbanisme Pour L'équipement De La Civilisation Machiniste. Collection De L'équipement De La Civilisation Machiniste. Boulogne (Seine): Éditions de l'Architecture d'Aujourd'hui, 1935.





## Spirituality

Eroded by Capital

\*The Fountainhead is a 1949 American black-and-white drama film from Warner Bros. produced by Henry Blanke, directed by King Vidor and starring Gary Cooper, Patricia Neal, Raymond Massey, Robert Douglas and Kent Smith.



## Spirituality

Eroded by Capital

After two decades of crime and increasing maintenance issues, Pruitt-Igoe was ultimately demolished between 1972 and 1977. ImageVia pruit-igoe.com

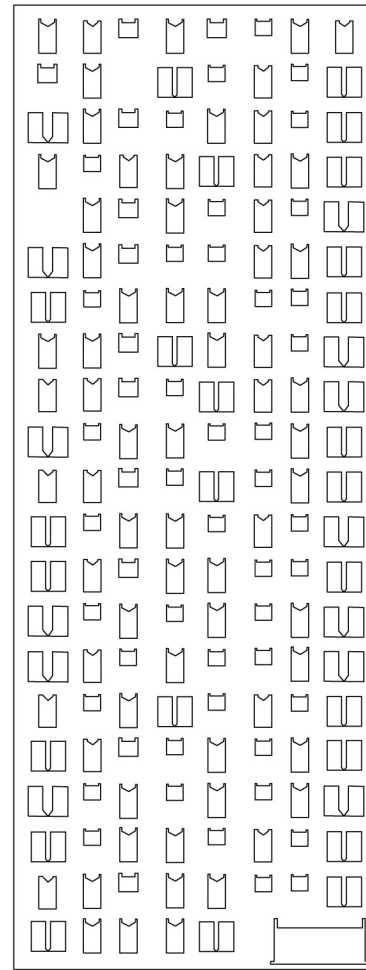
## Spirituality

Non-referential Architecture: Contradictory and Complicity



A jet airliner is lined up on one of the World Trade Center towers in New York Tuesday, Sept. 11, 2001. Picture: AP Photo/Carmen Taylor





# Spirituality

The Role of History

Facade drawing of Torre San Felipe, designed by Valerio Olgiati, drawled by Xiaoyue Shi

...the **past is partly being experienced** now, and this may be the meaning to give permanences: they are a past that we are still experiencing. P59

...The value of **history seen as collective memory**, as the relationship of the collective to its place, is that it helps us to grasp the significance of the **urban structure**, its individuality, and its architecture which is the form of this individuality. P131

The Architecture of the City by Aldo Rossi

In pursuing the past one can never recapture it. Only by bringing forth the present can contact with the past be established.

Sverre Fehn

## Spirituality

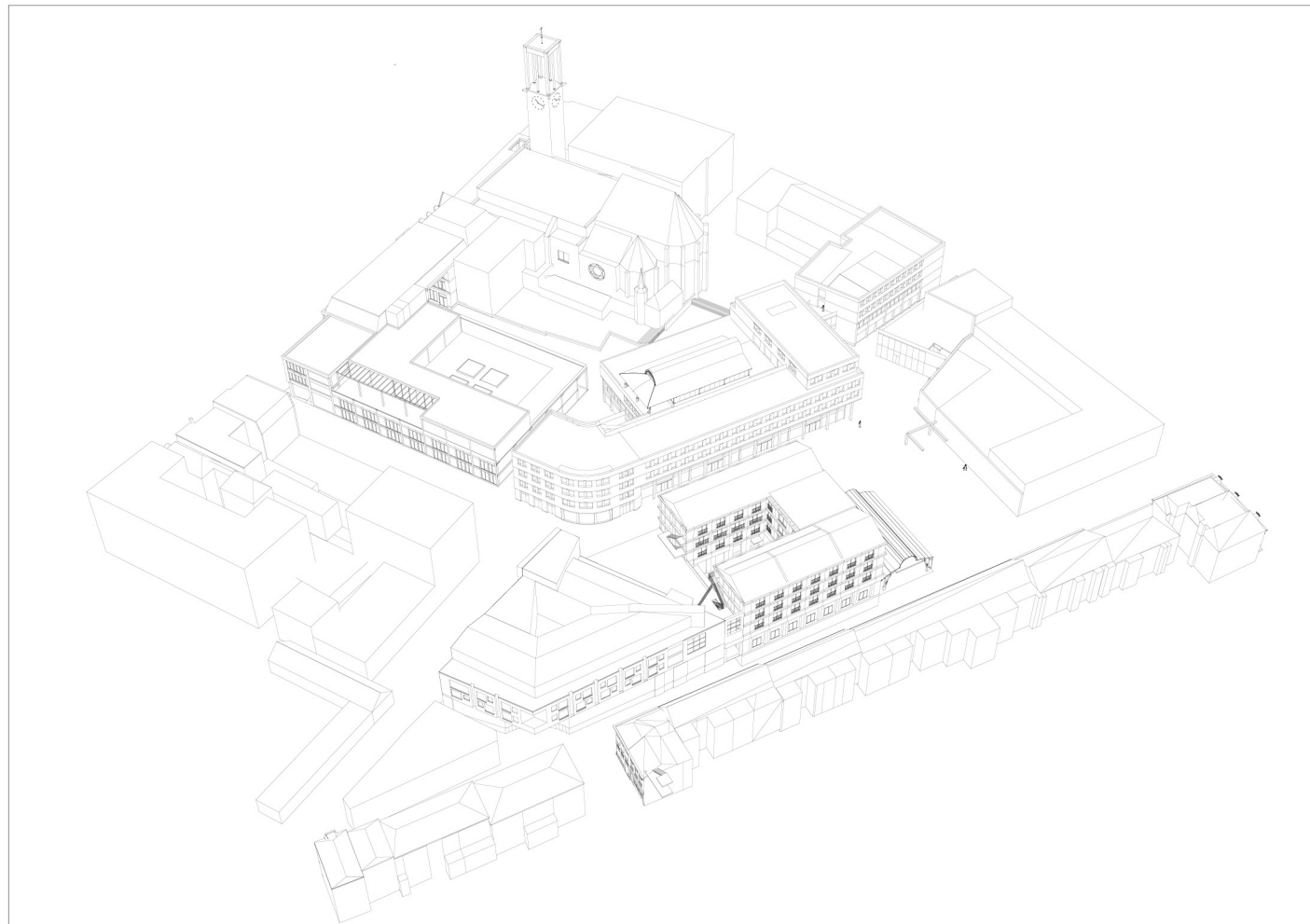
The Role of History



## Spirituality

Contradictory and Complicity, By Using History Elements As A Reflection





## 2.Urban

Urban Research and Urban Design



# Topography

Street and the City

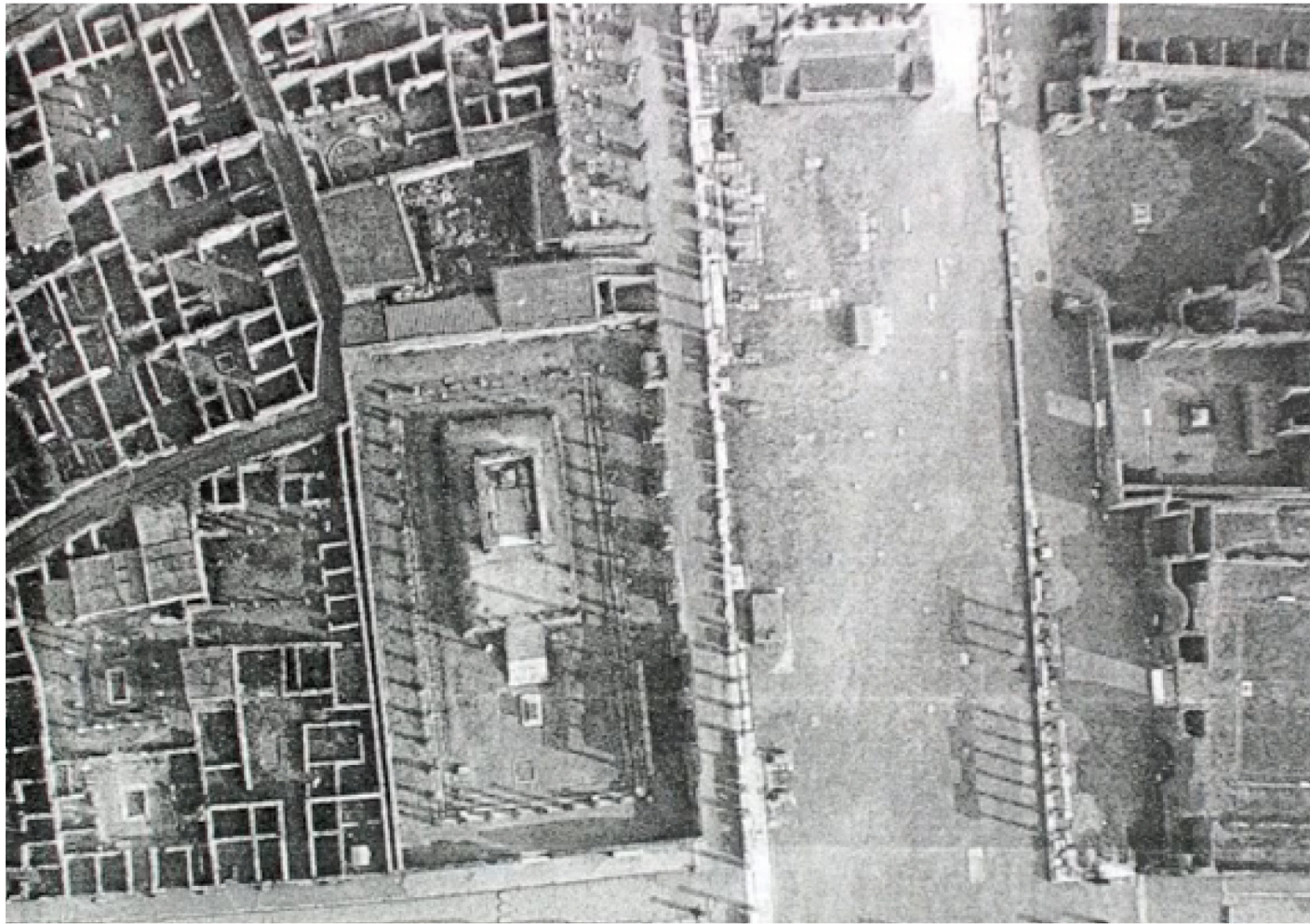
The river topography and the city street, made by Fleurtje Ruijs



# History

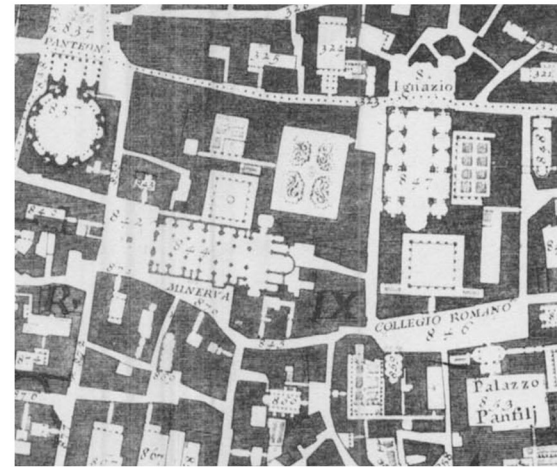
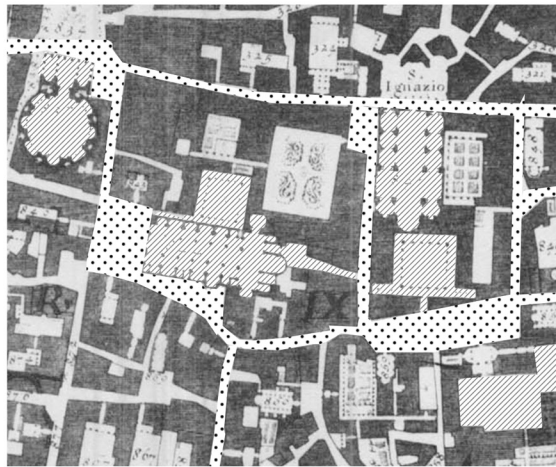
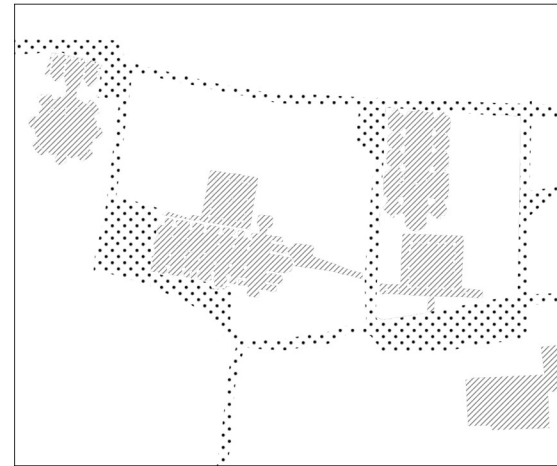
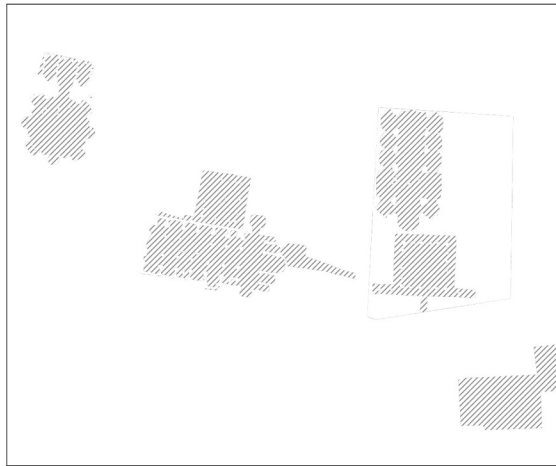
A Roman City





## Roman City

A Heterogeneous City



# Roman City

Street As Connections



# Molenpoort

A Not Popular Shopping Mall

Resource: Booklet of Tracy Group, P1 Work





# Molenpoort

Once Full of Activities

Resource: Movie made by Shopping Group, P1 Work



# Molenpoort

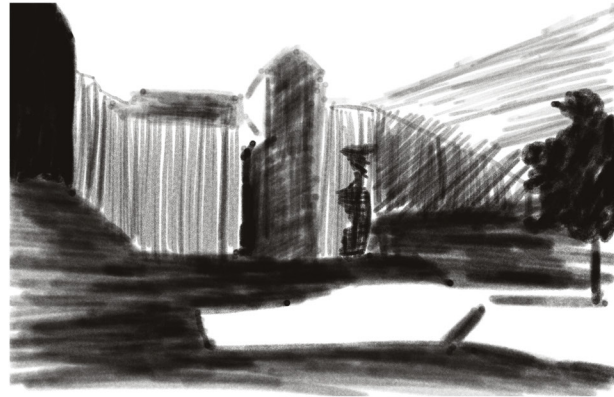
Now Only Coldness

Resource: Movie made by Shopping Group, P1 Work



## Molenpoort

Terrible Interior Atmosphere

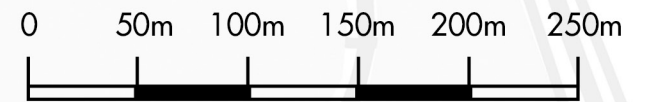
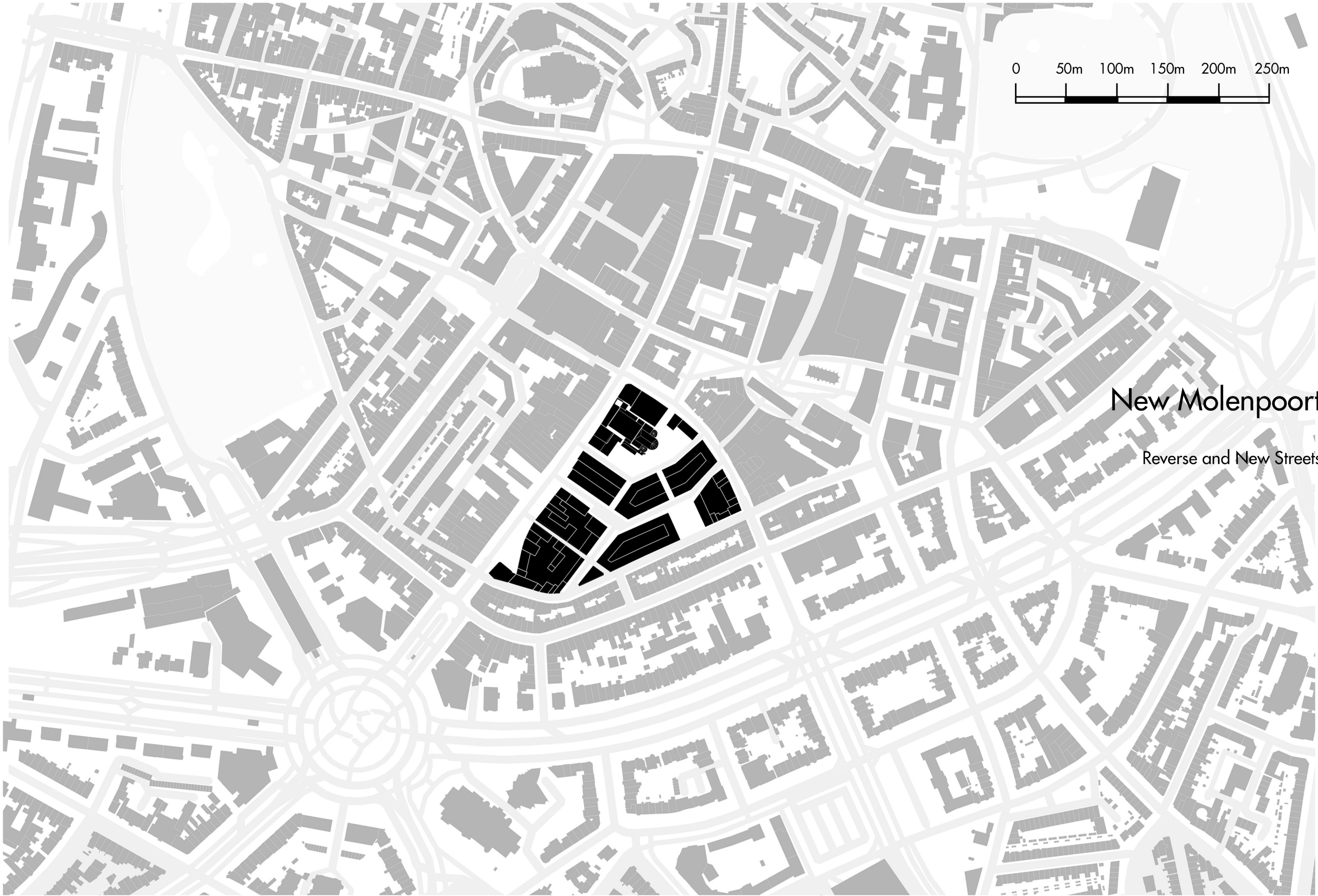






## New Molenpoort

Reverse and New Streets



New Molenpoort

Reverse and New Streets



## Three Streets

First Ring, Cultural and Leisure

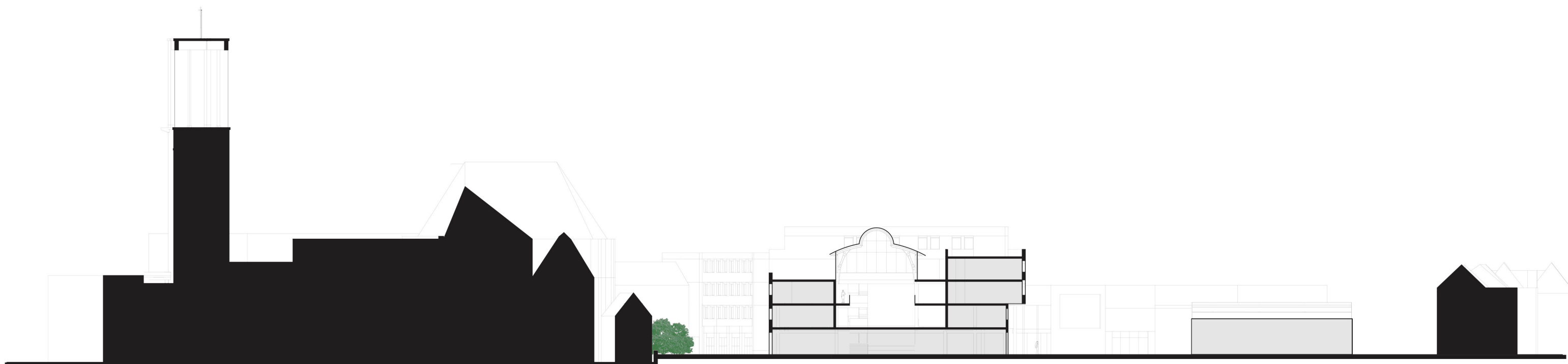






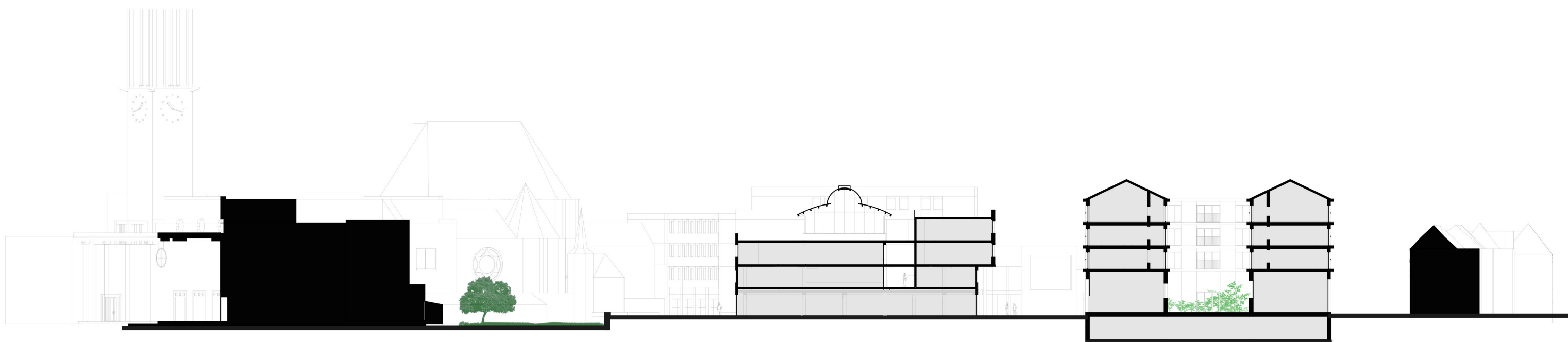
## Three Streets

Third Ring, Housing and Collective Space

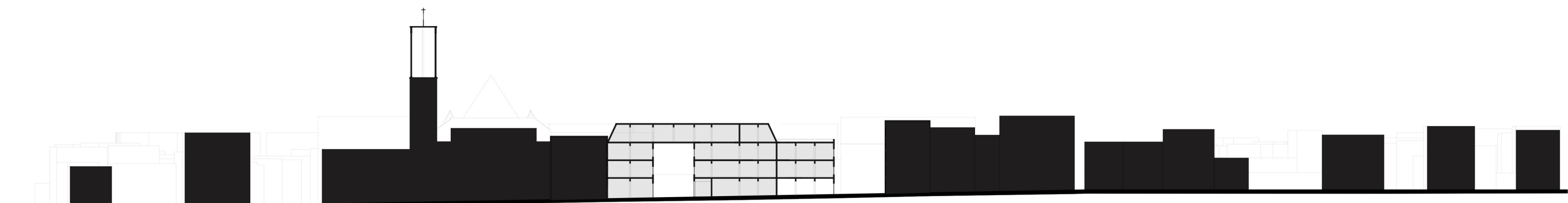
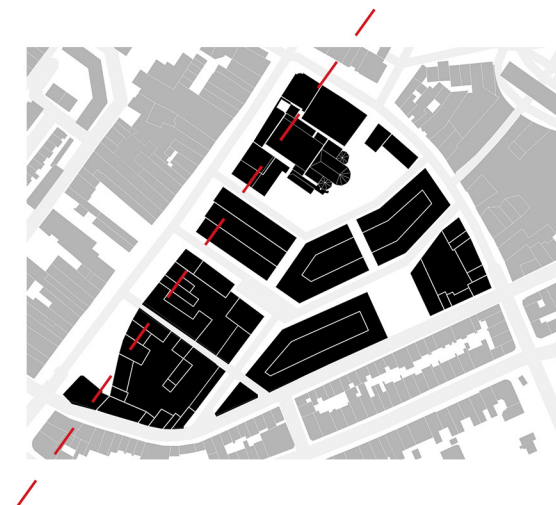


City Section 1:500





City Section 1:500



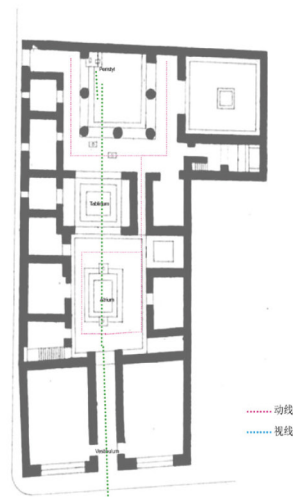
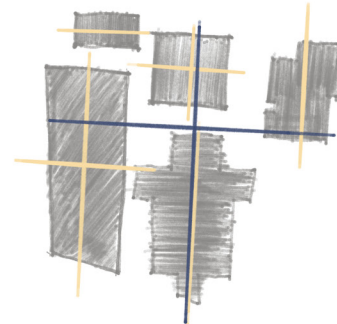
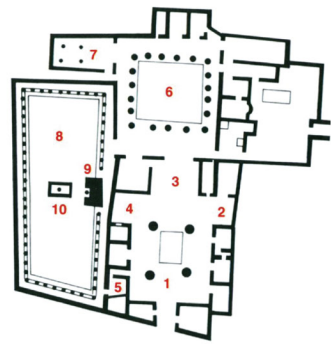
City Section 1:500



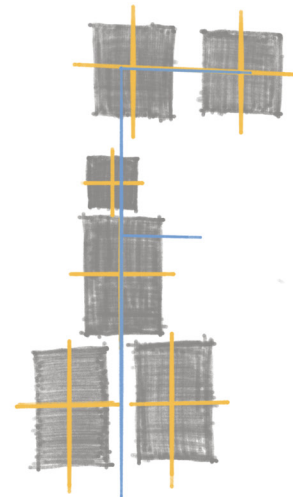
### 3.Architecture

Sequence, Structure Form, Facade, Housing



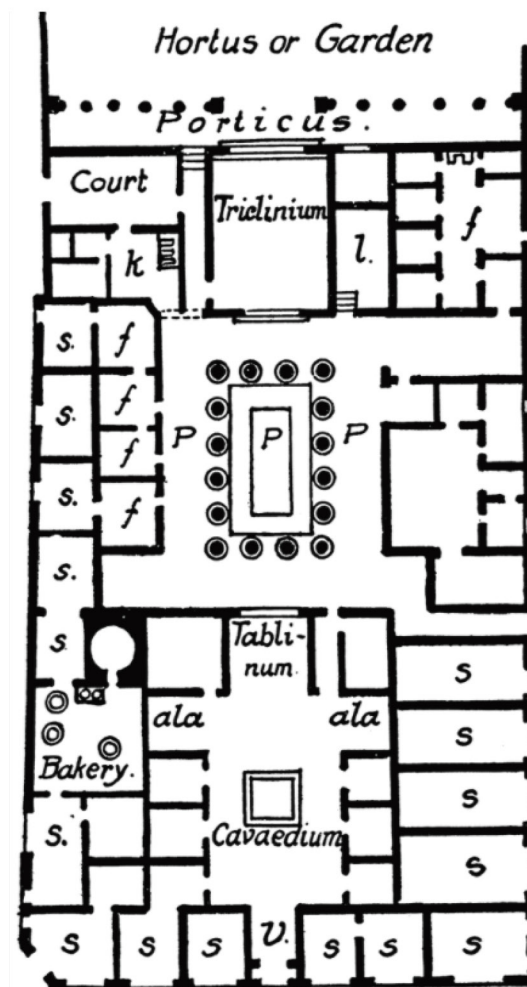


..... 动线  
..... 视线



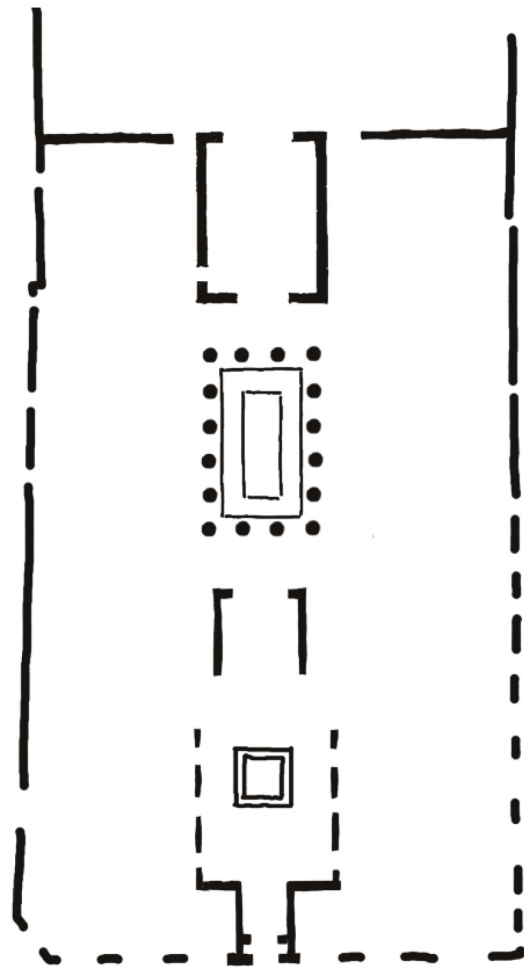
# Sequence

History As A Logic



## Sequence

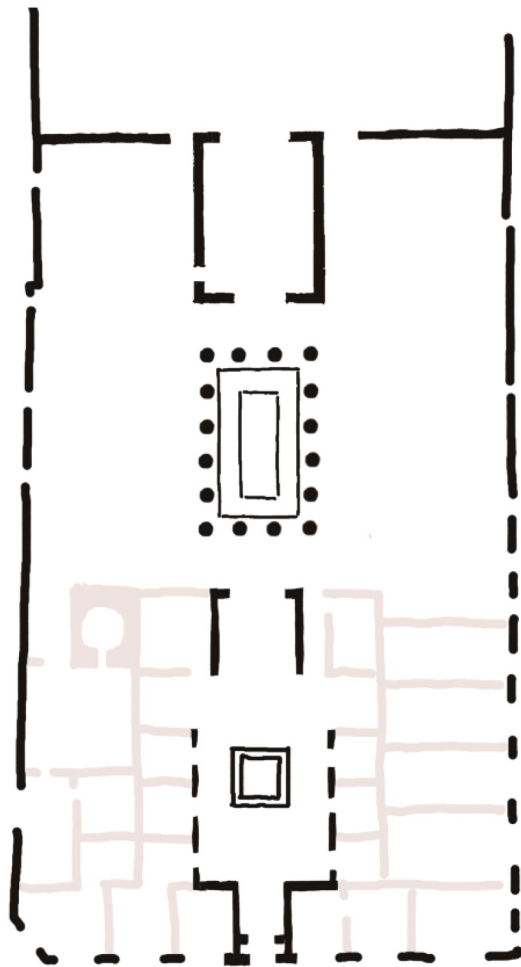
A Continue Context From Roman House



## Sequence

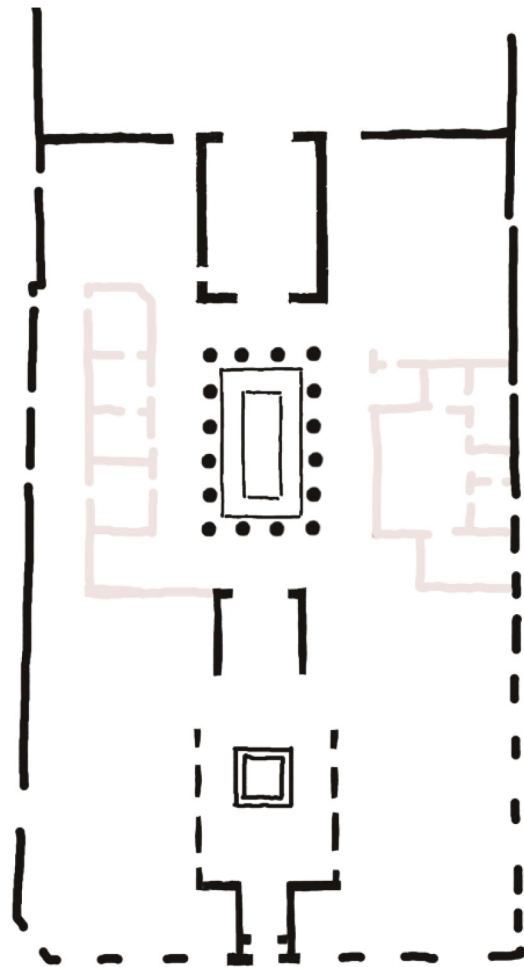
A Continue Context From Roman House





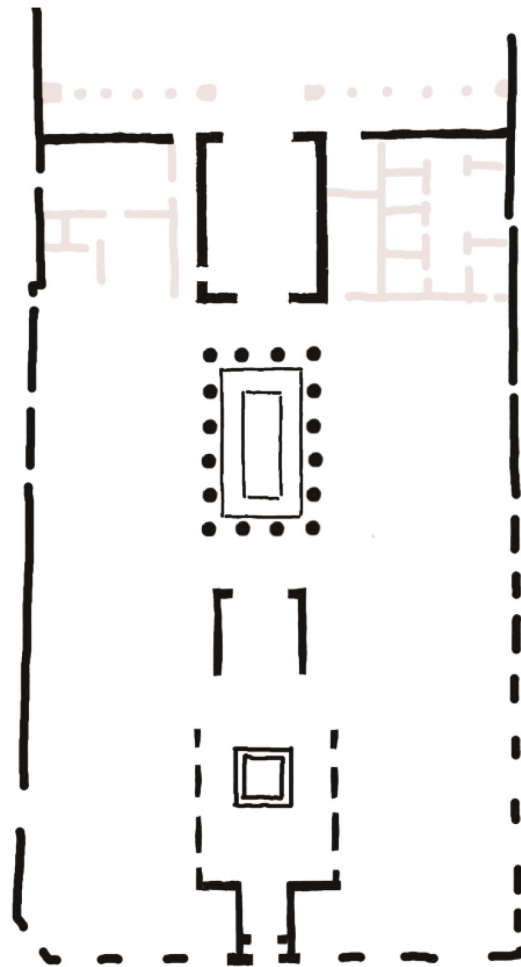
## Sequence

A Continue Context From Roman House



## Sequence

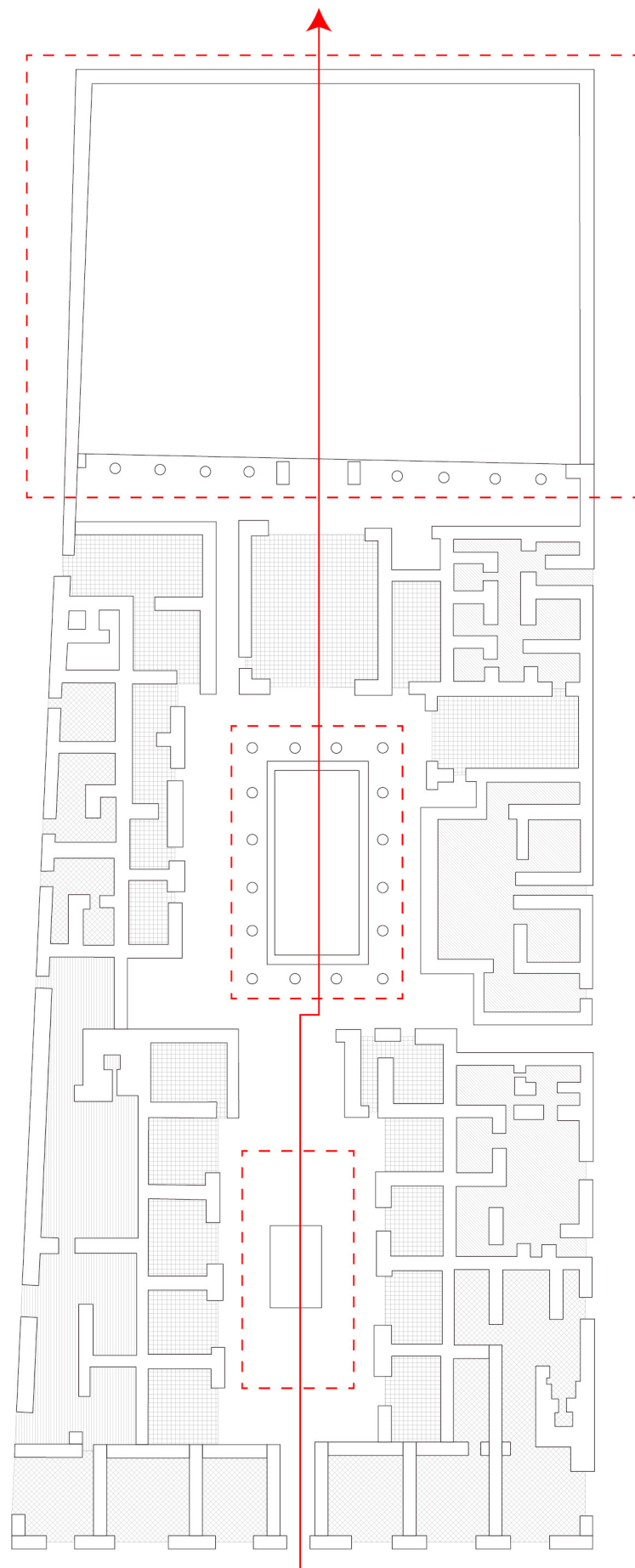
A Continue Context From Roman House



## Sequence

A Continue Context From Roman House

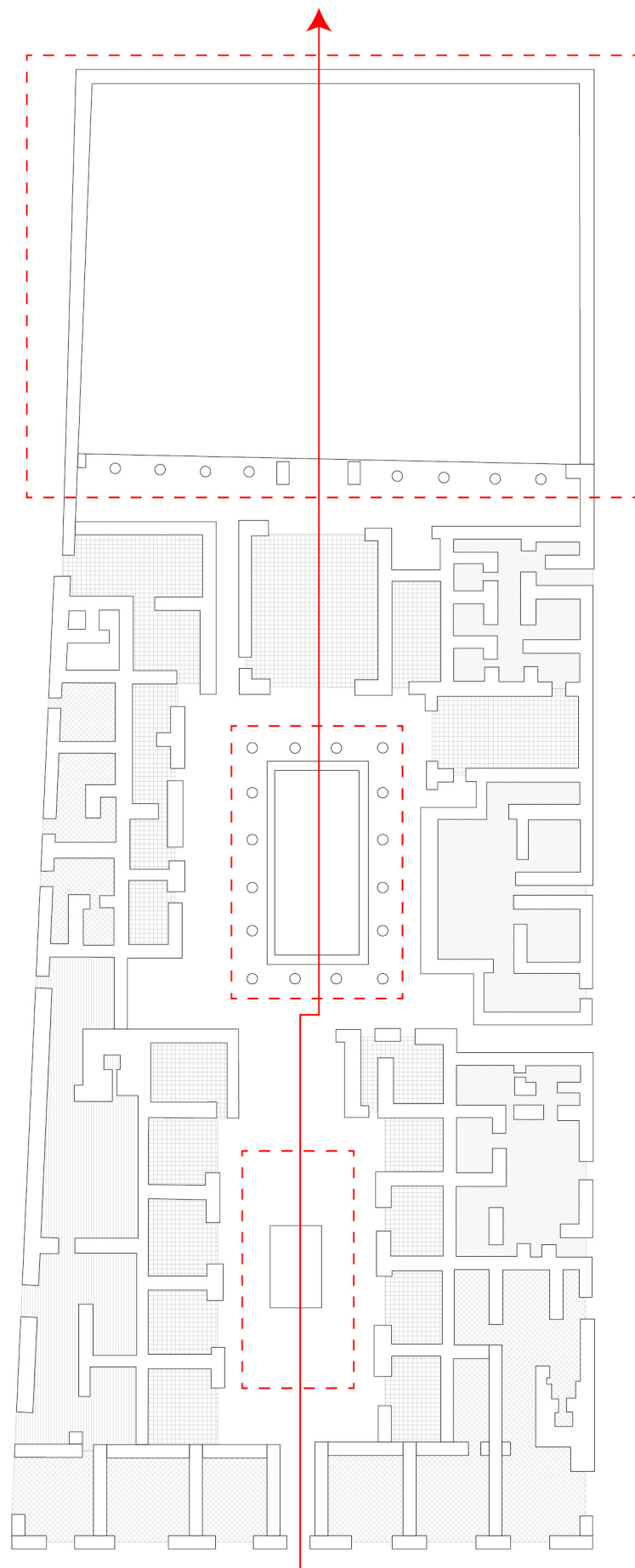




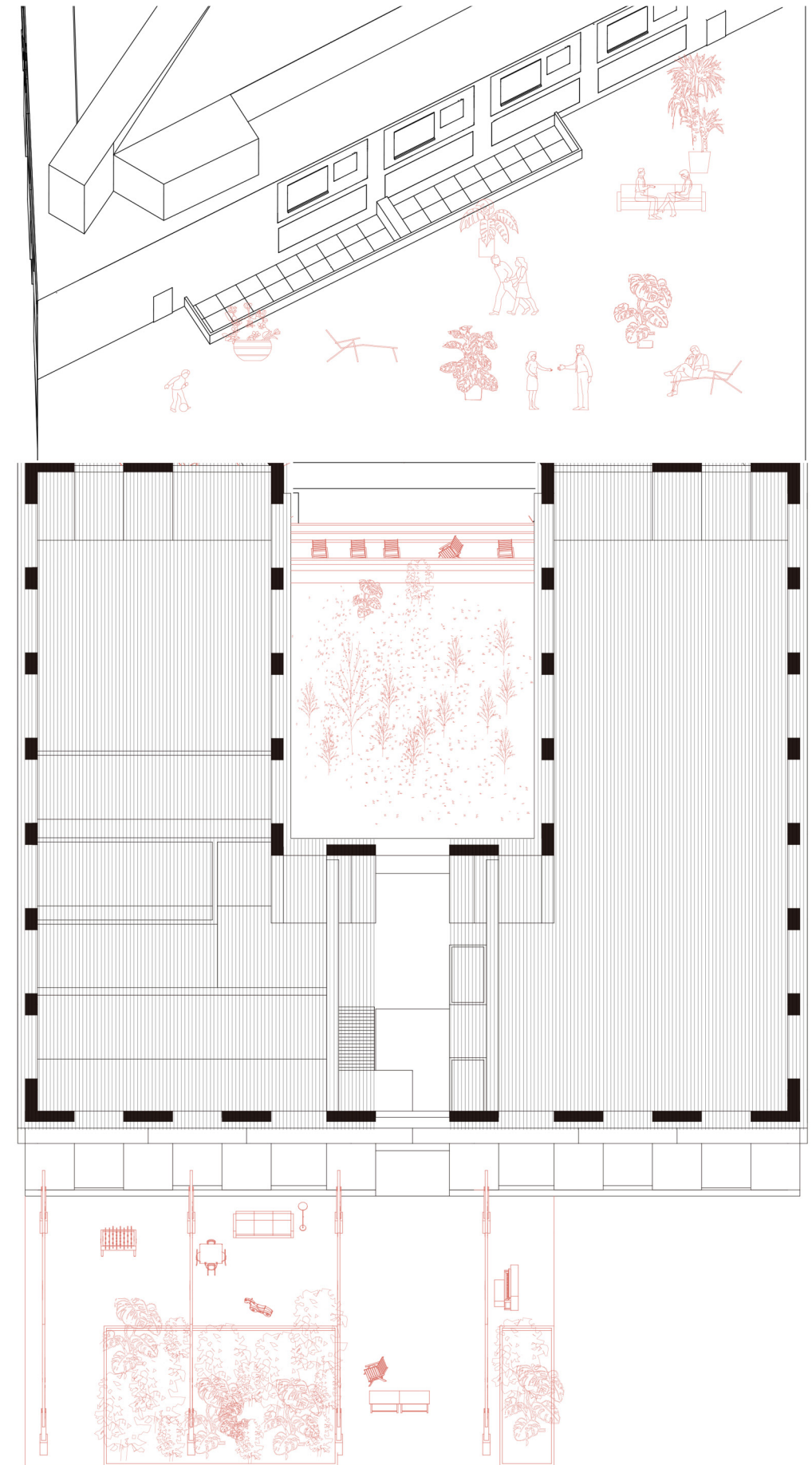
-  Shops
-  Separate Housing
-  Pansa's Housing
-  Bakery

## Sequence

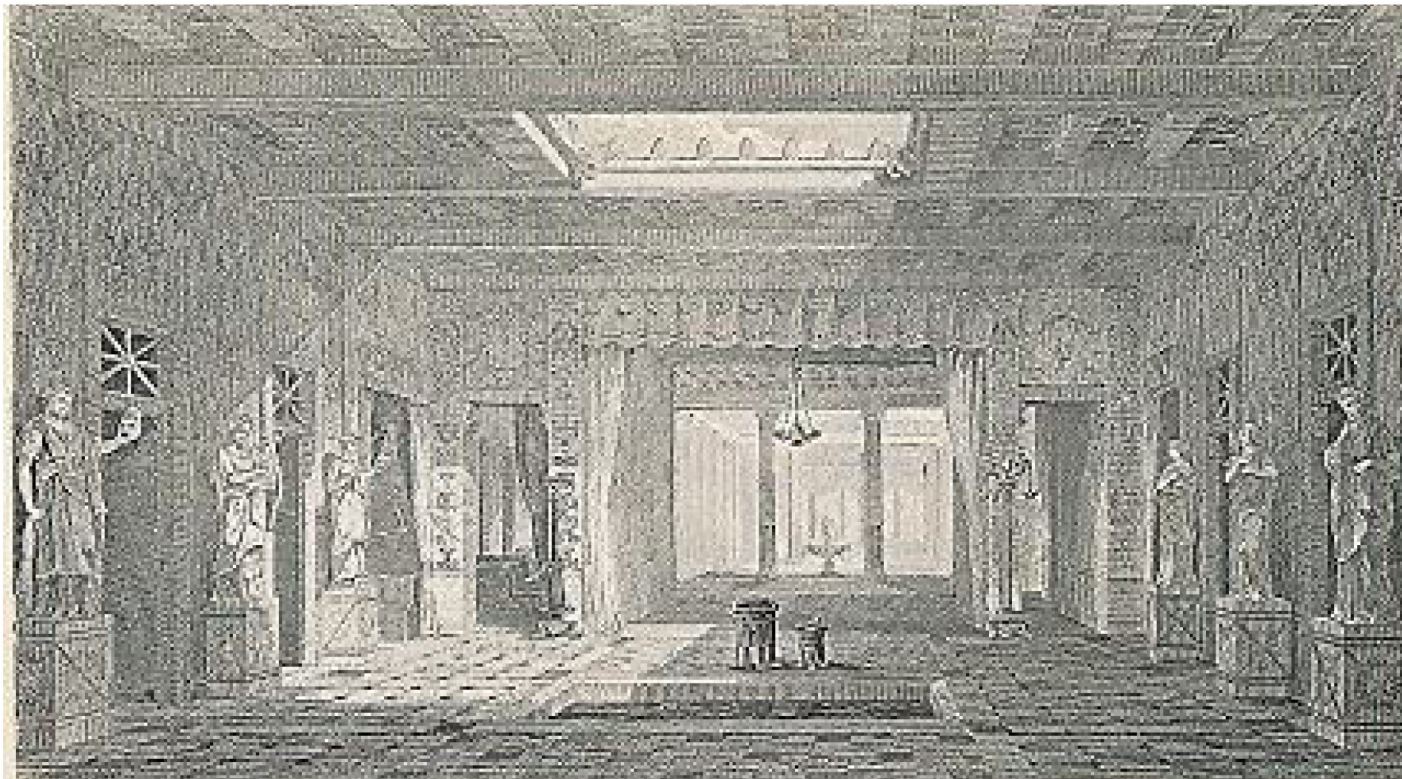
A Continue Context From Roman House



-  Shops
-  Separate Housing
-  Pansa's Housing
-  Bakery





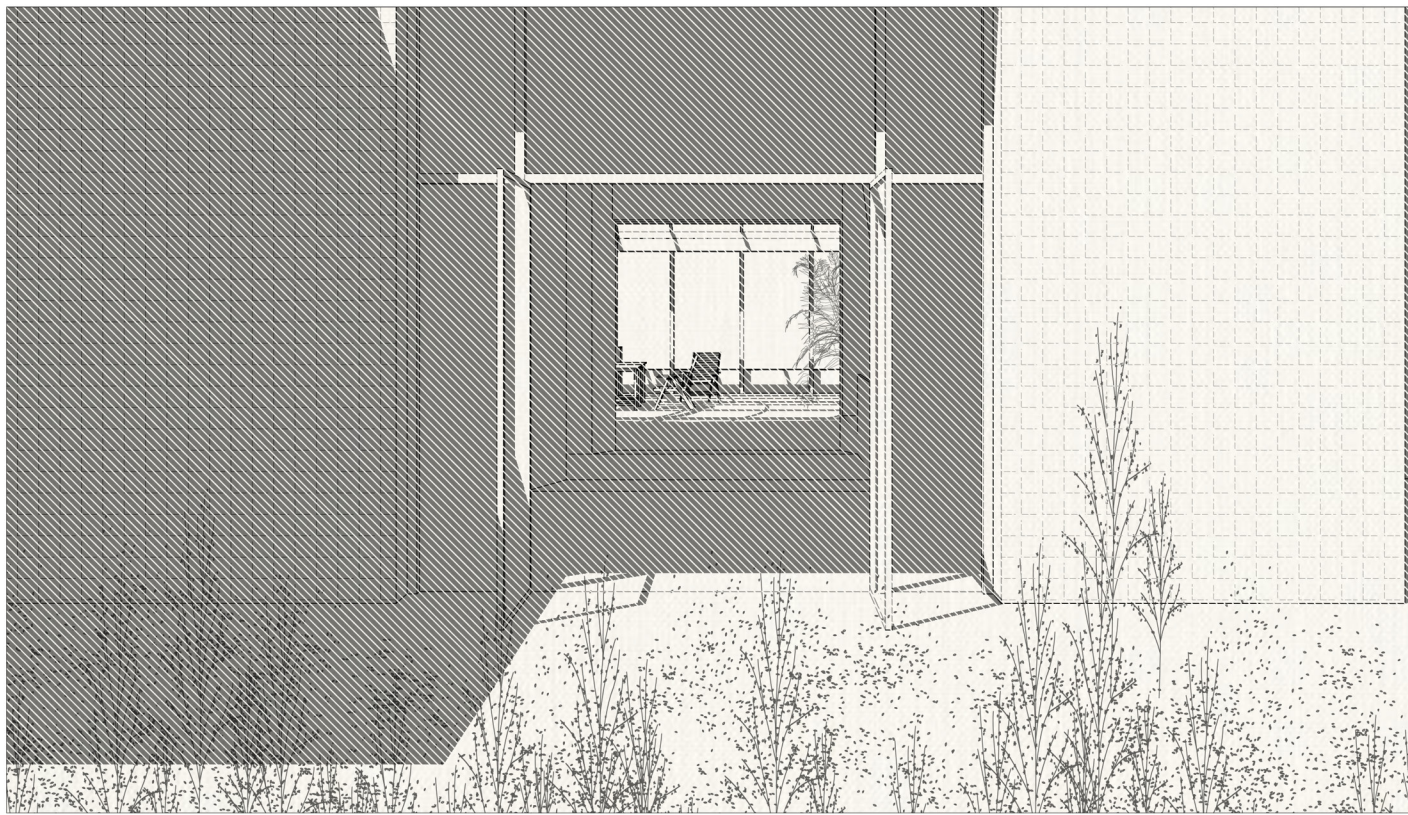


Impression of House of Pansa peristyle / From Wikimedia Commons

## Sequence

A Continue Context From Roman House





## Sequence

A Continue Context From Roman House





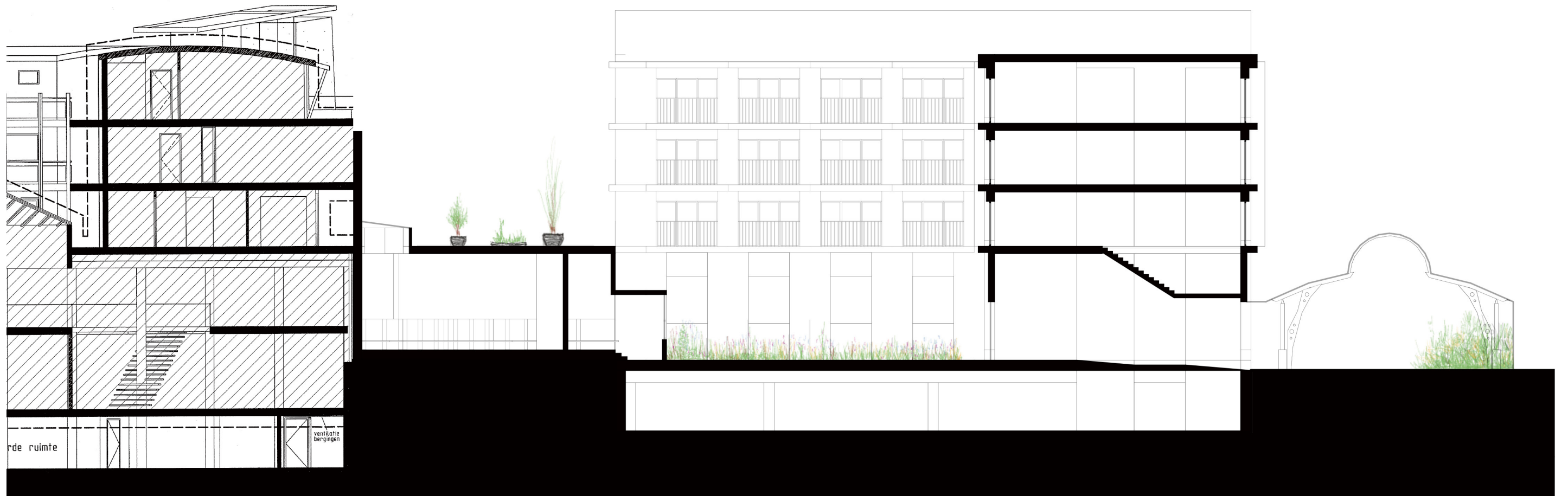
Courtyard to Please, Brussels, Belgium 2013  
Garden from Jan Minne



Serpentine Gallery Pavilion 2011 , Peter Zumthor  
Garden from Piet Oudolf

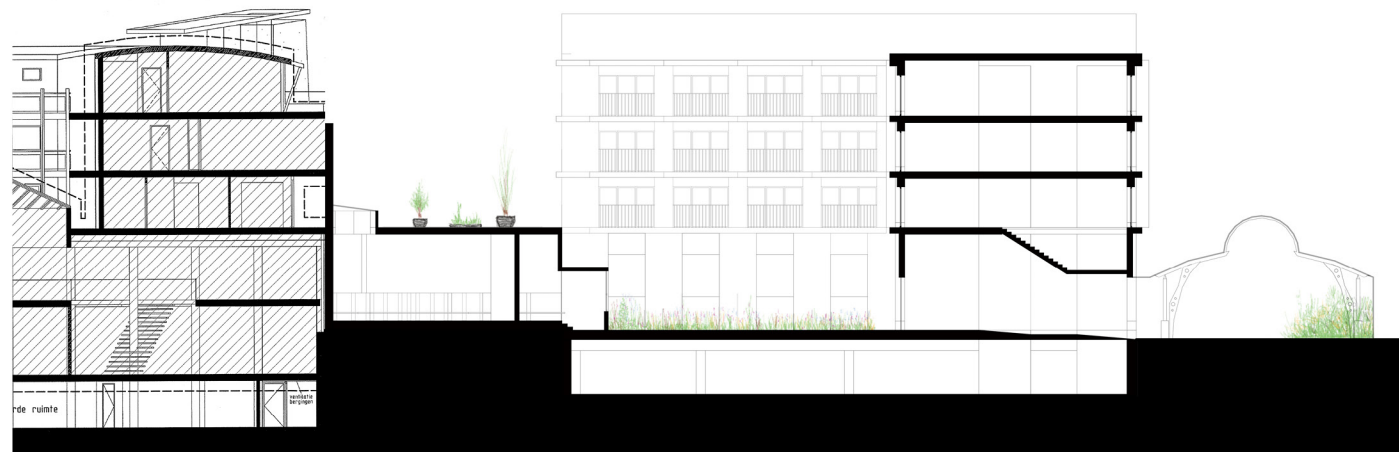


Garden House, Baracco + Wright Architects 2021



Section 1:200

References for three green space



## Sequence

A Continue Context From Roman House

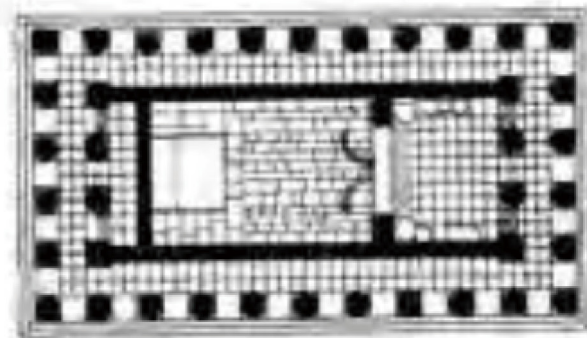
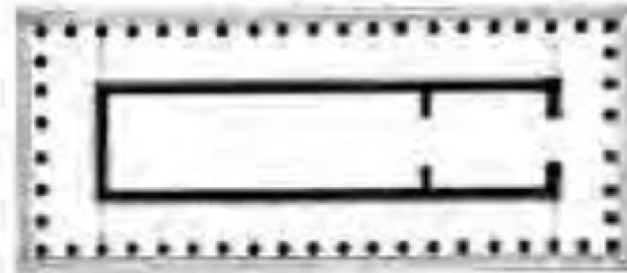
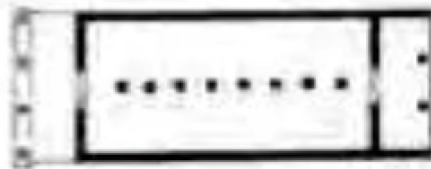




## Structure Form

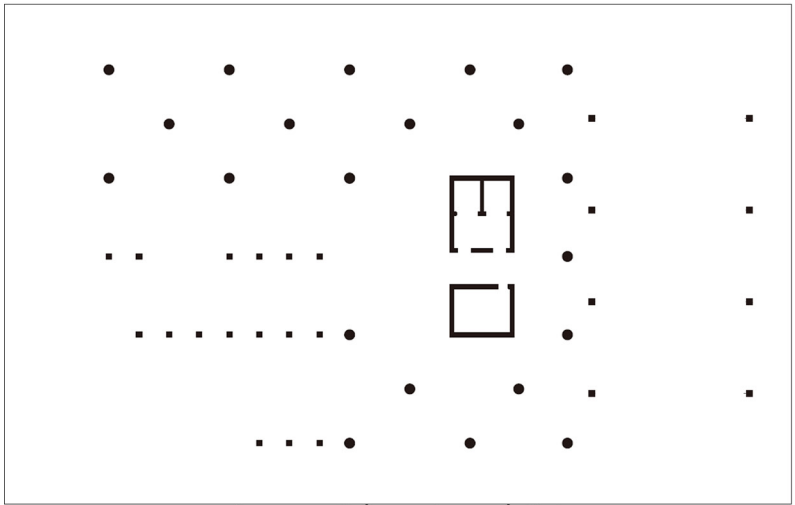
History As A Perception



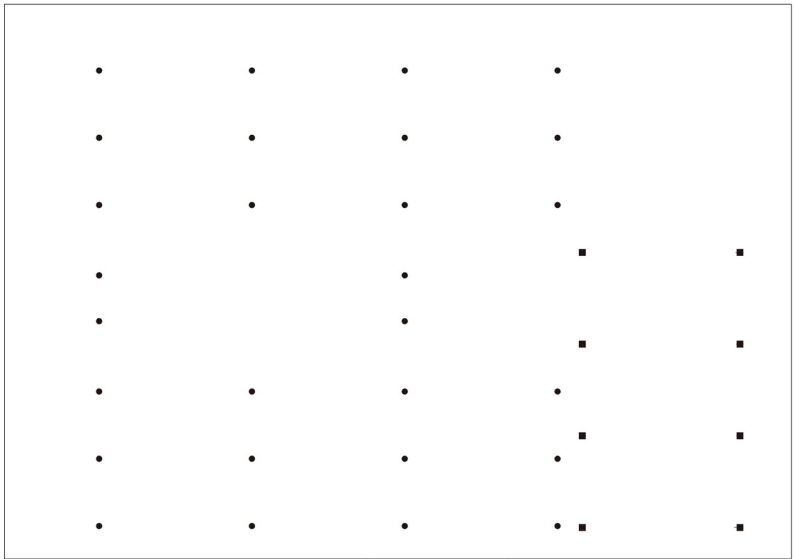


## Structure Form

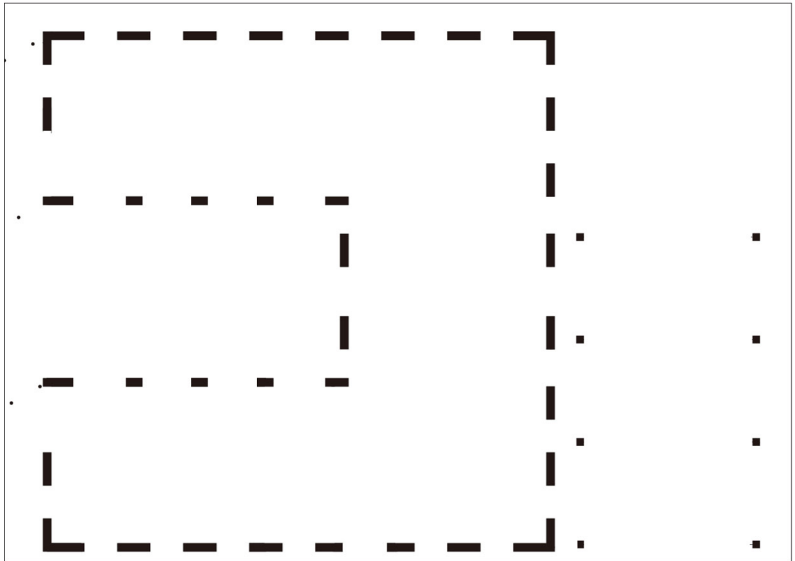
Temple and Openness



Structure Scheme in week 3.4



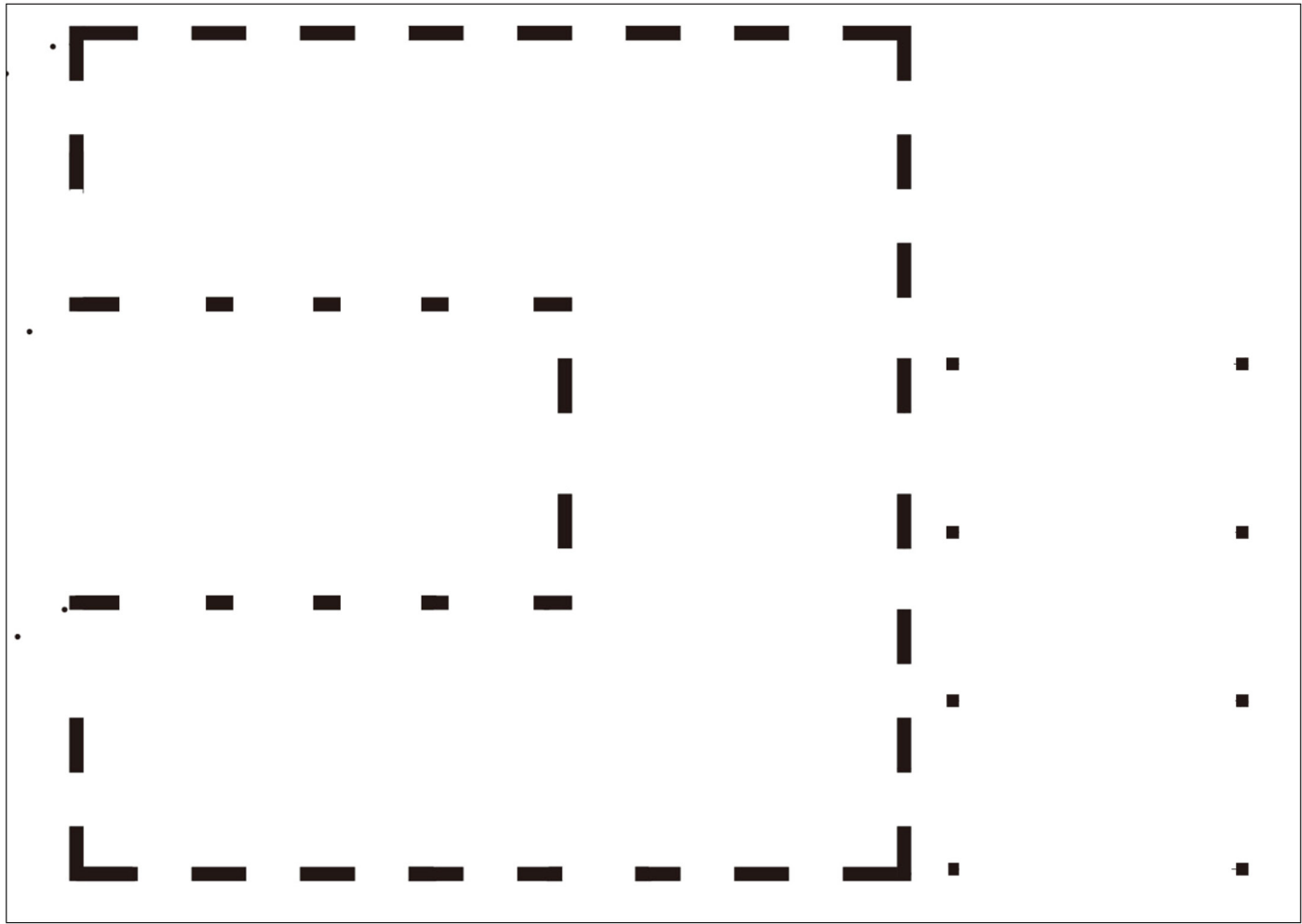
Structure Scheme in week 3.8



Final Structure Scheme

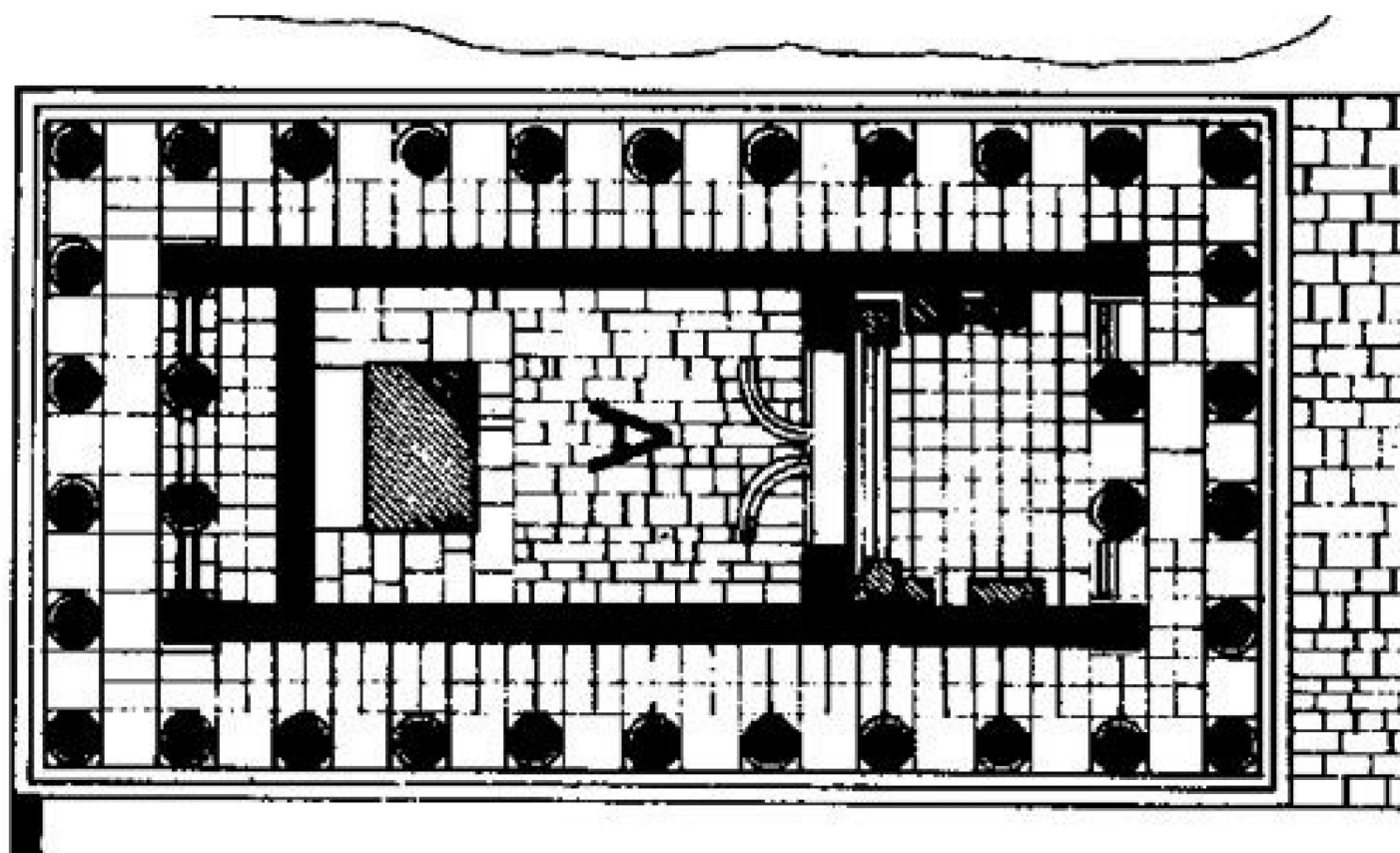
# Structure Form

Temple and Openness



# Structure Form

Temple and Openness



## Structure Form

Temple and Openness





## Structure Form

Temple and Openness



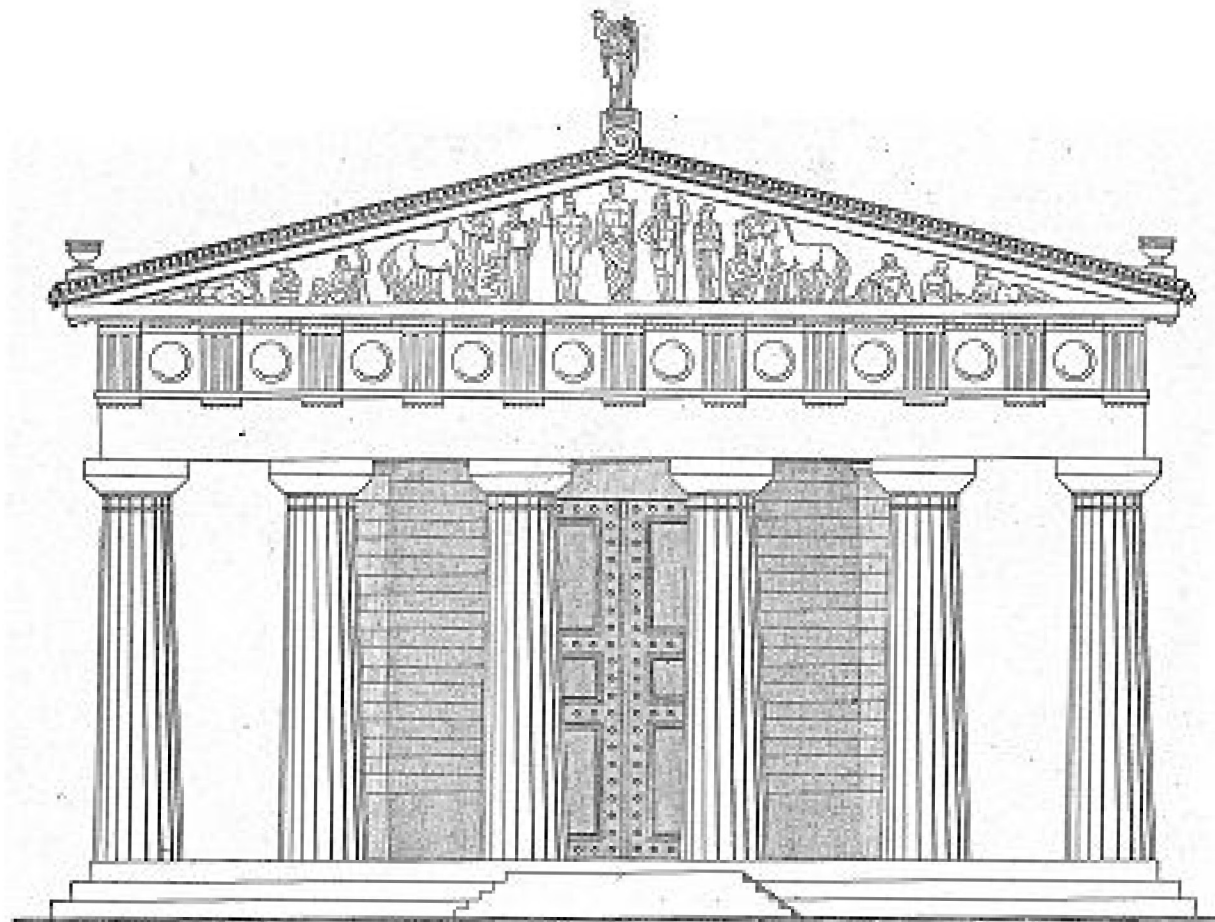
## Structure Form

Temple and Openness



# Facade

History As A Comparison



# Facade

History and Modern





## Facade

History and Modern



# Facade

History and Modern



Facade 1:200



Facade 1:200

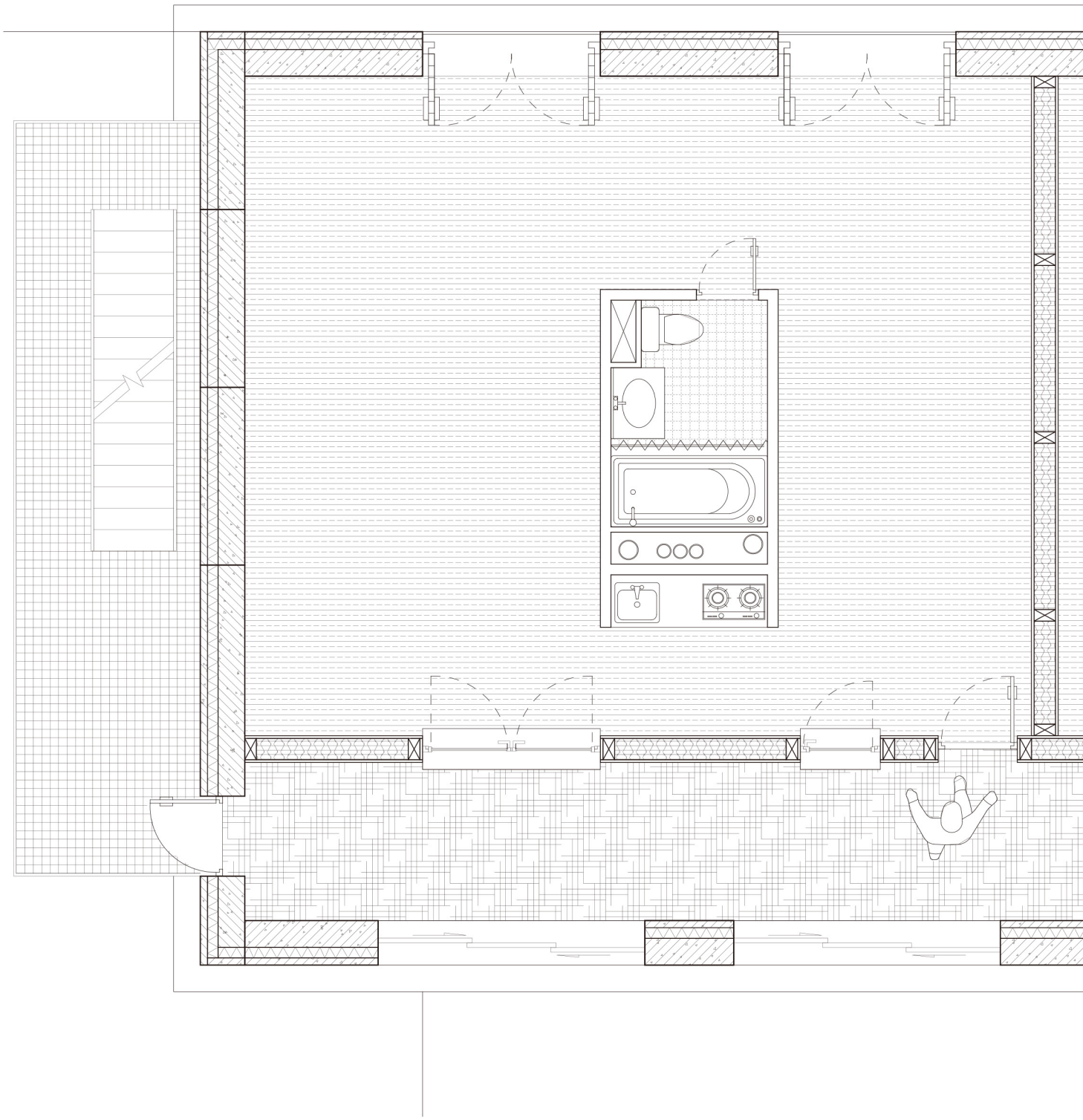




## Housing

Mundanity with Freedom

Photo by Jiang Tong, Guangzhou, China, 2019



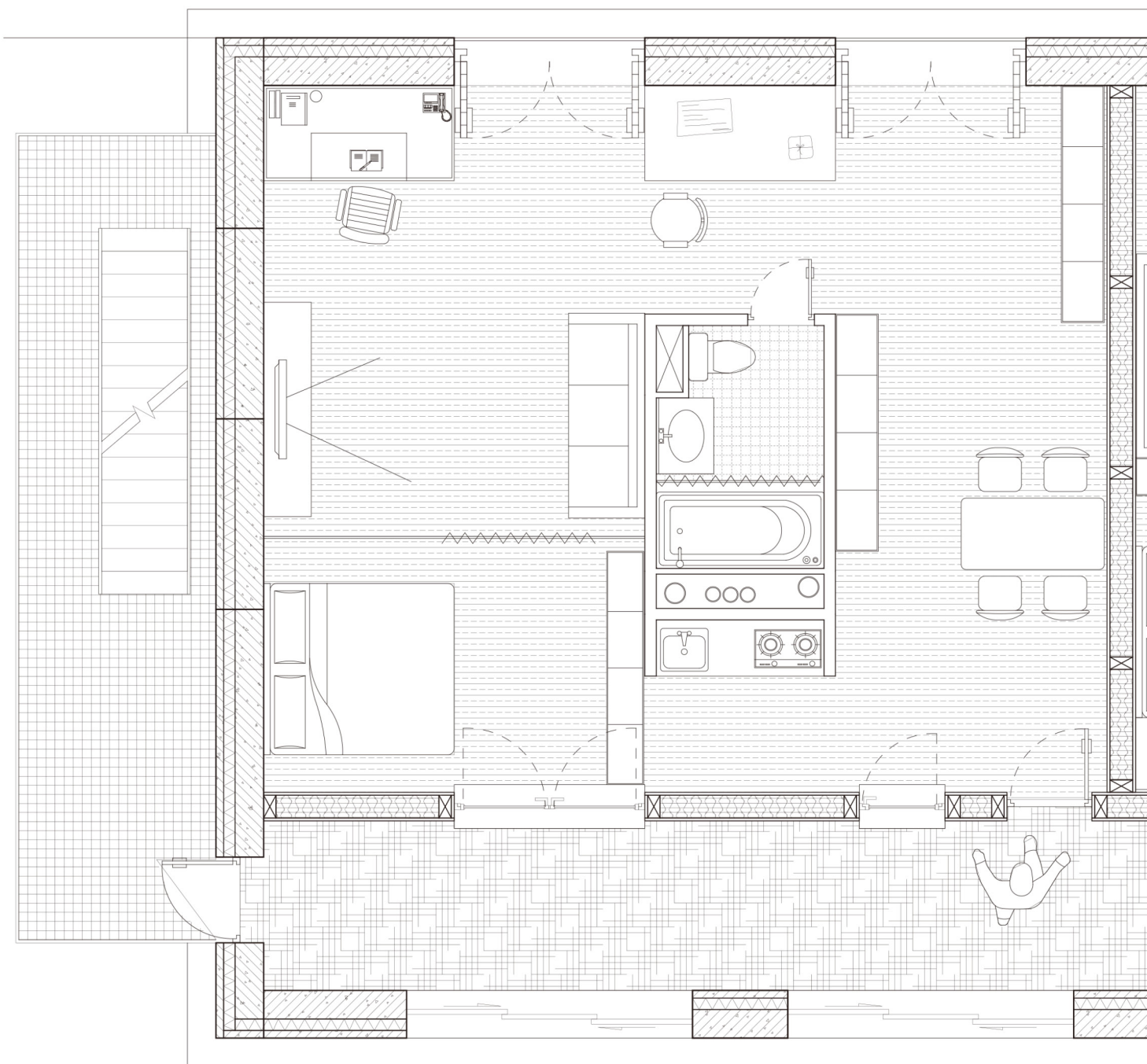
# Housing

Mundanity with Freedom

65 m<sup>2</sup>

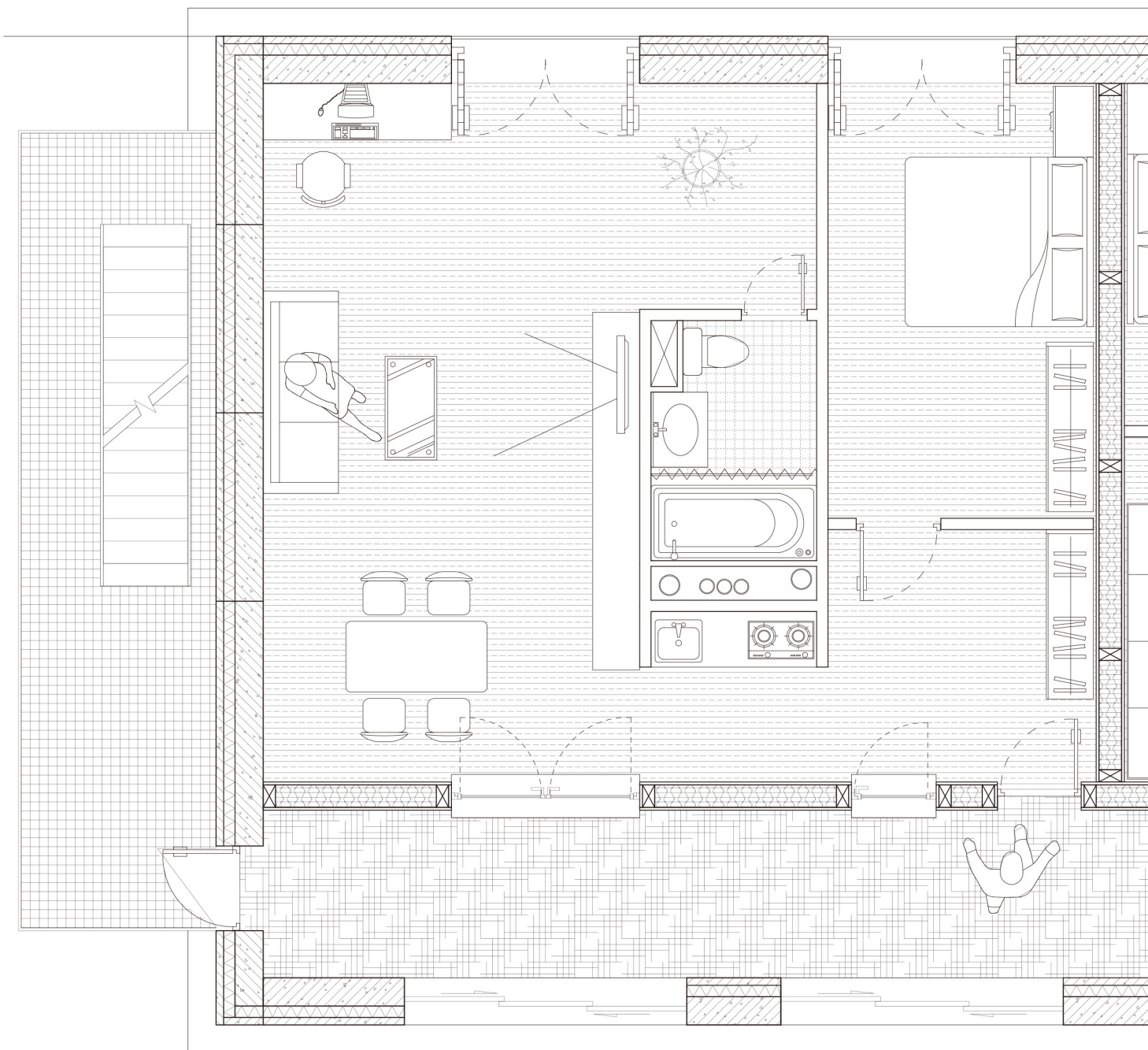
For small Family(Couple or One Child)





## Housing

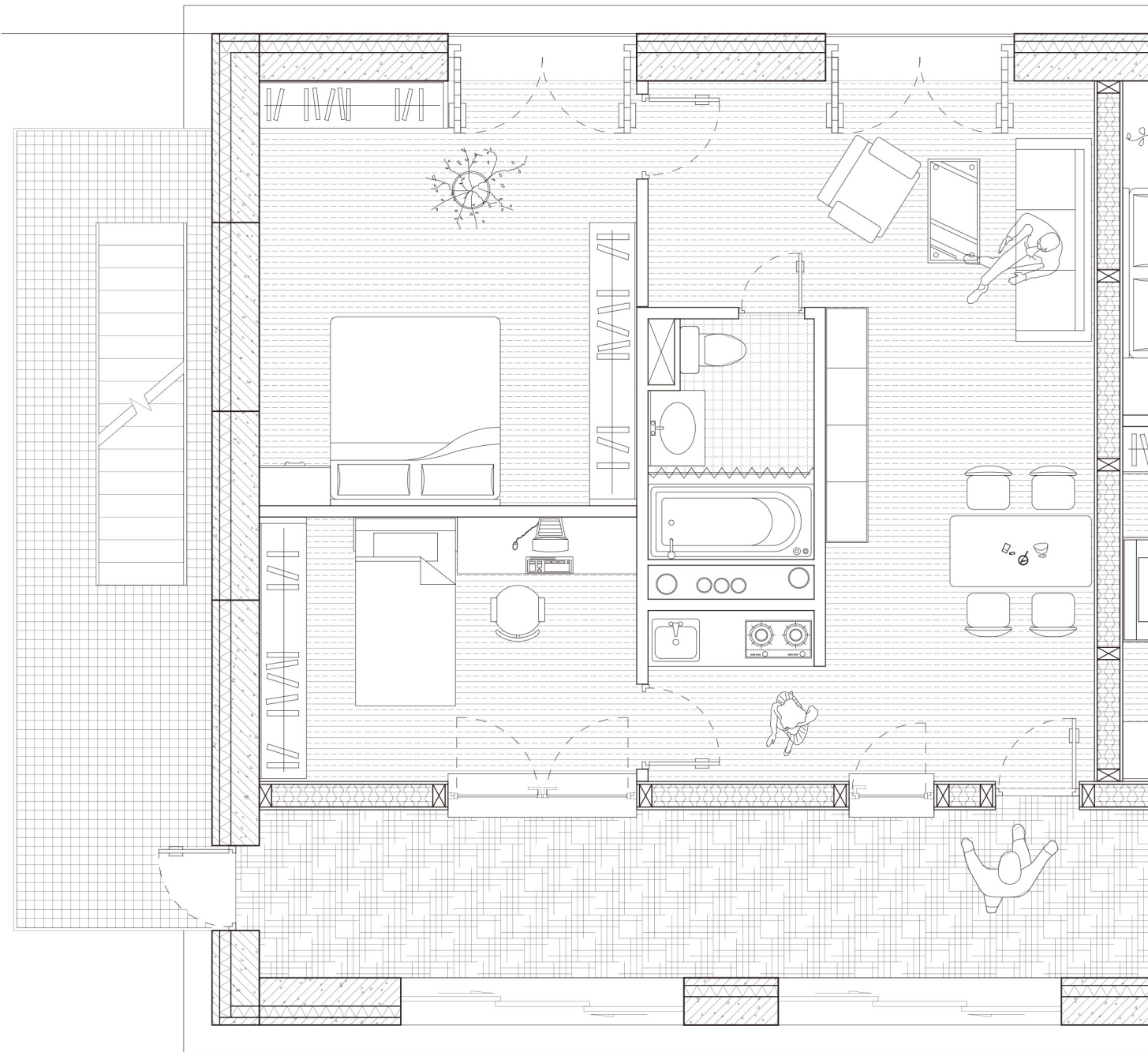
Mundanity with Freedom  
65 m<sup>2</sup>  
For small Family(Couple or One Child)



# Housing

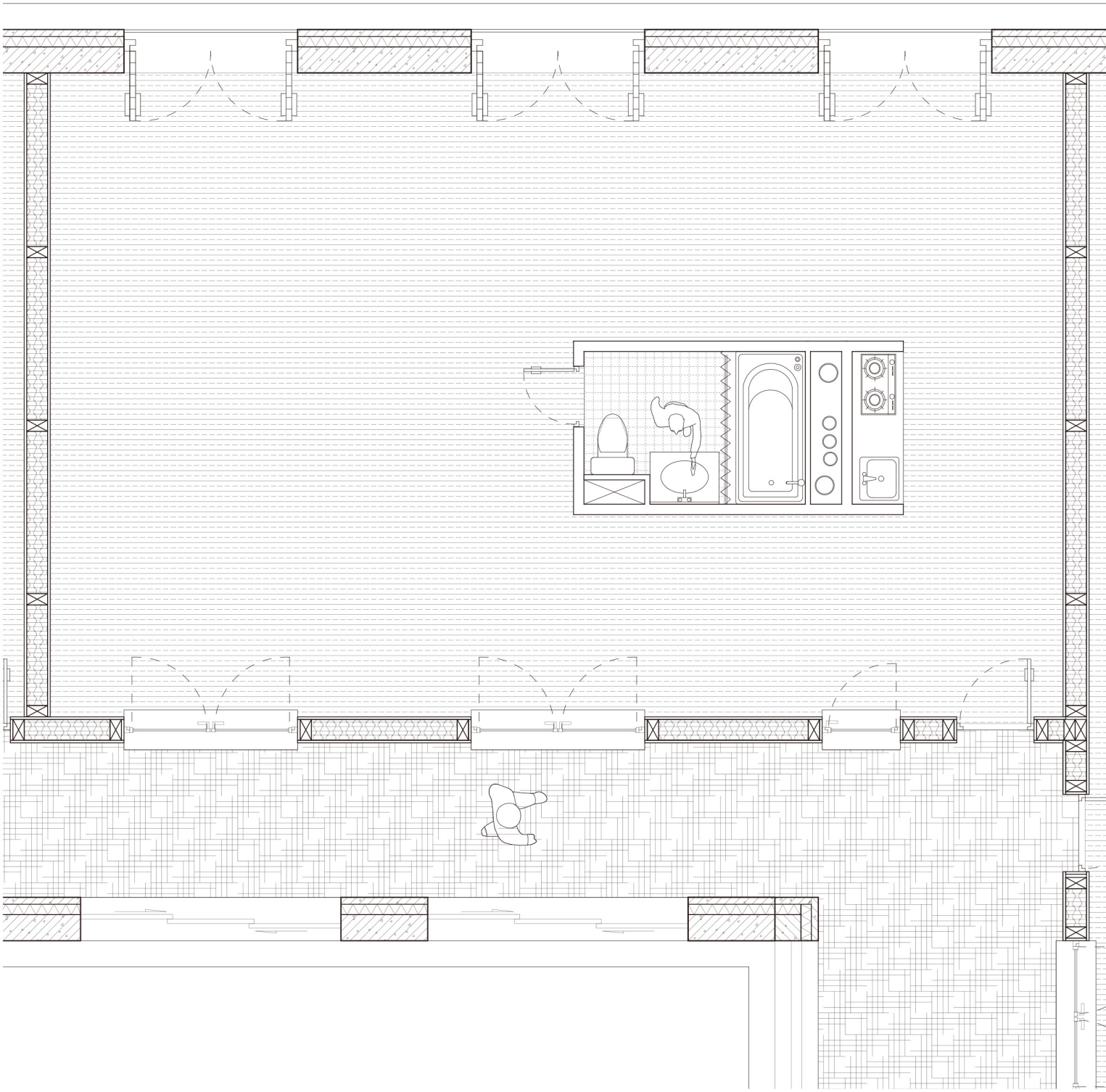
Mundanity with Freedom  
 65 m<sup>2</sup>  
 For small Family(Couple or One Child)





# Housing

Mundanity with Freedom  
65 m<sup>2</sup>  
For small Family(Couple or One Child)

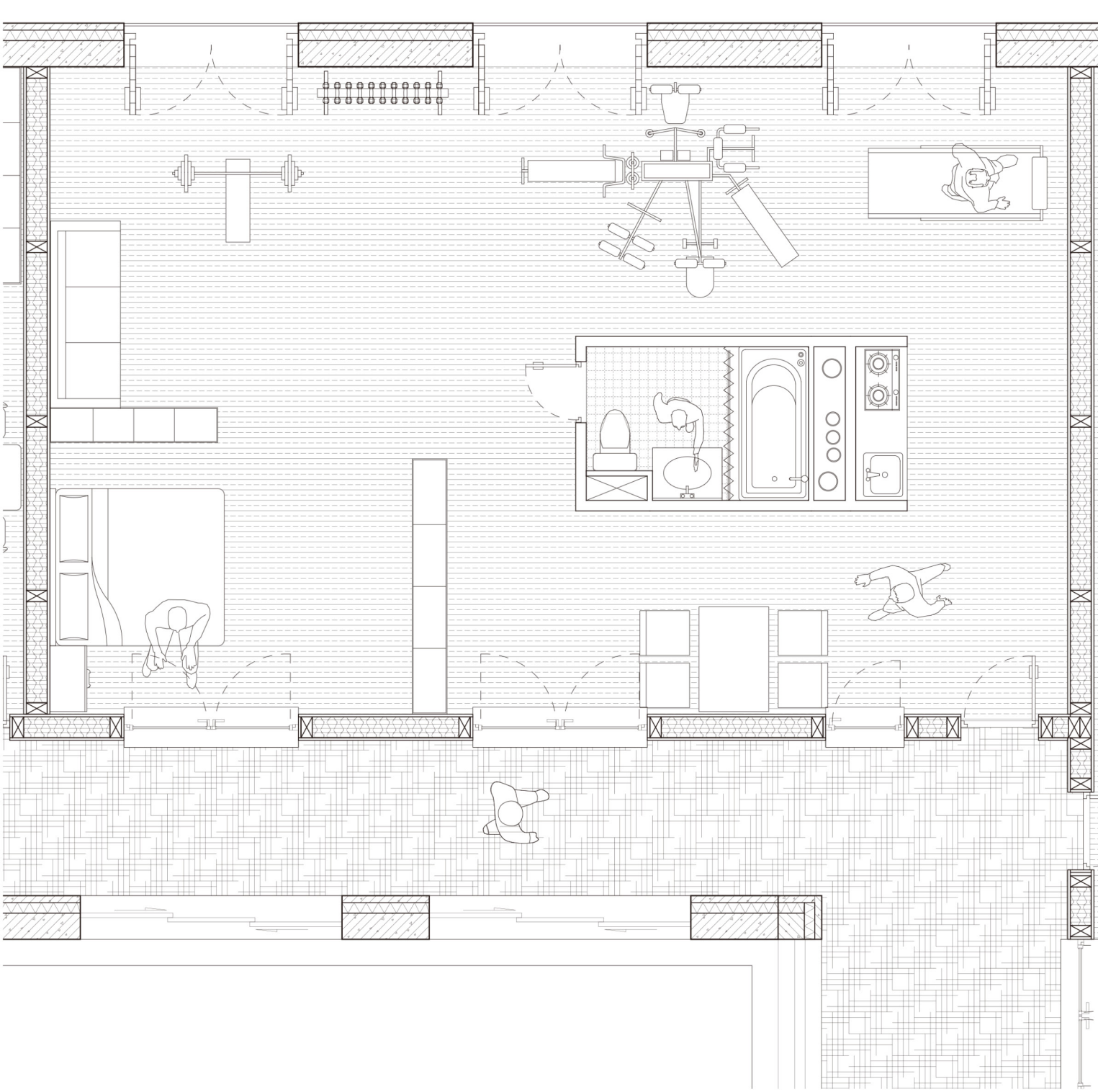


# Housing

Mundanity with Freedom

86 m<sup>2</sup>

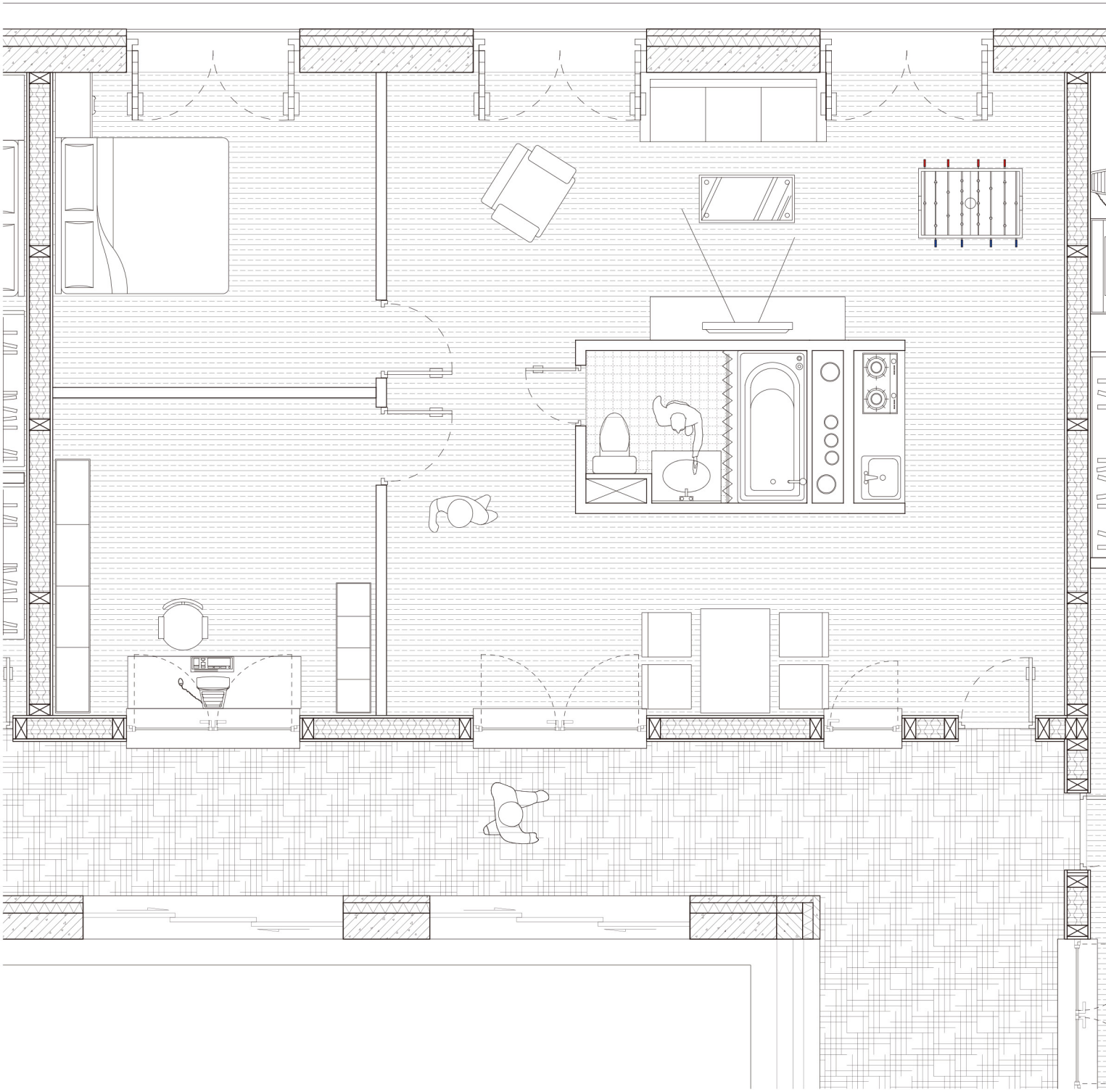
For middle size family(one or two Children)



# Housing

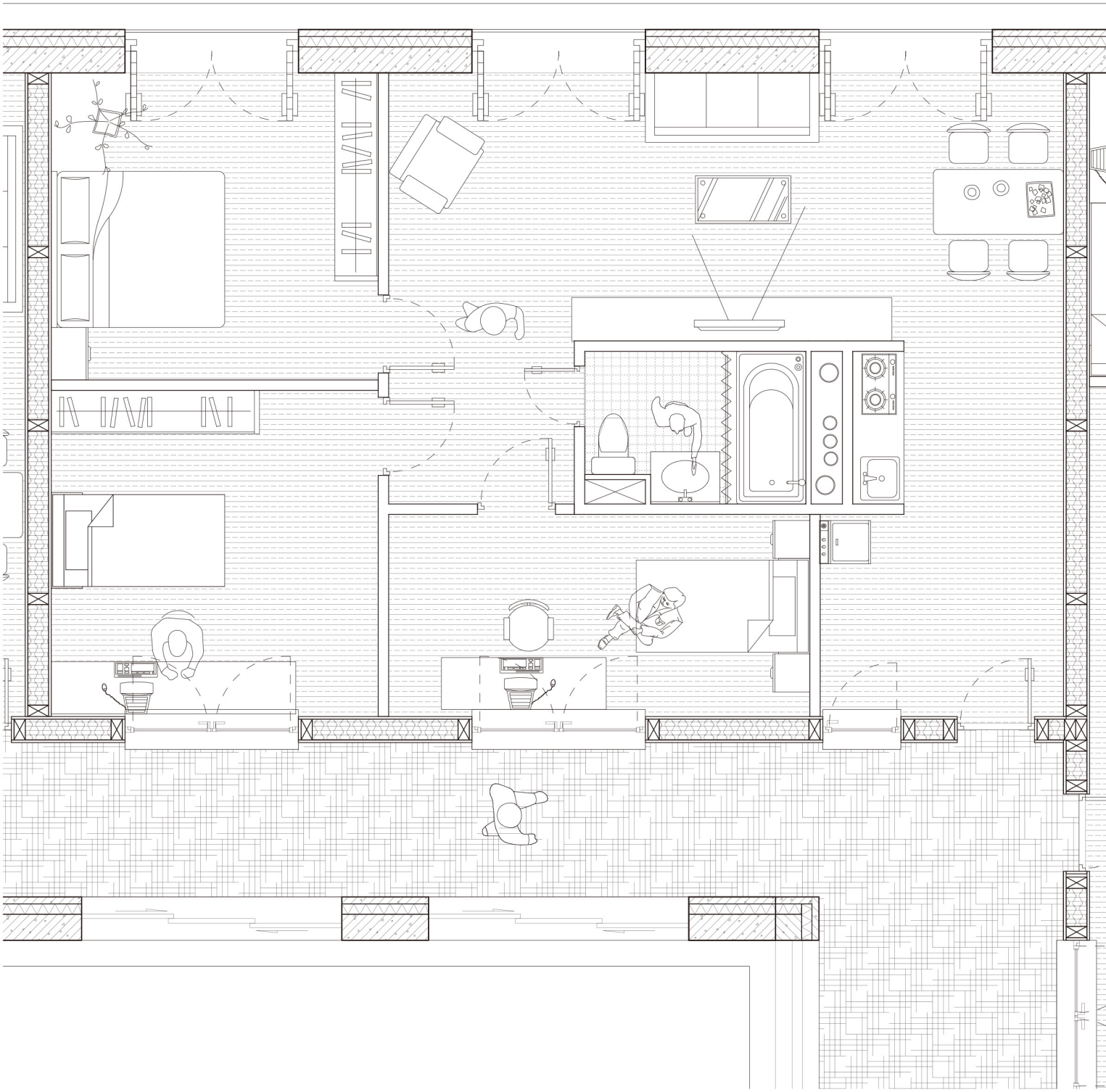
Mundanity with Freedom  
86 m²  
For middle size family(one or two Children)





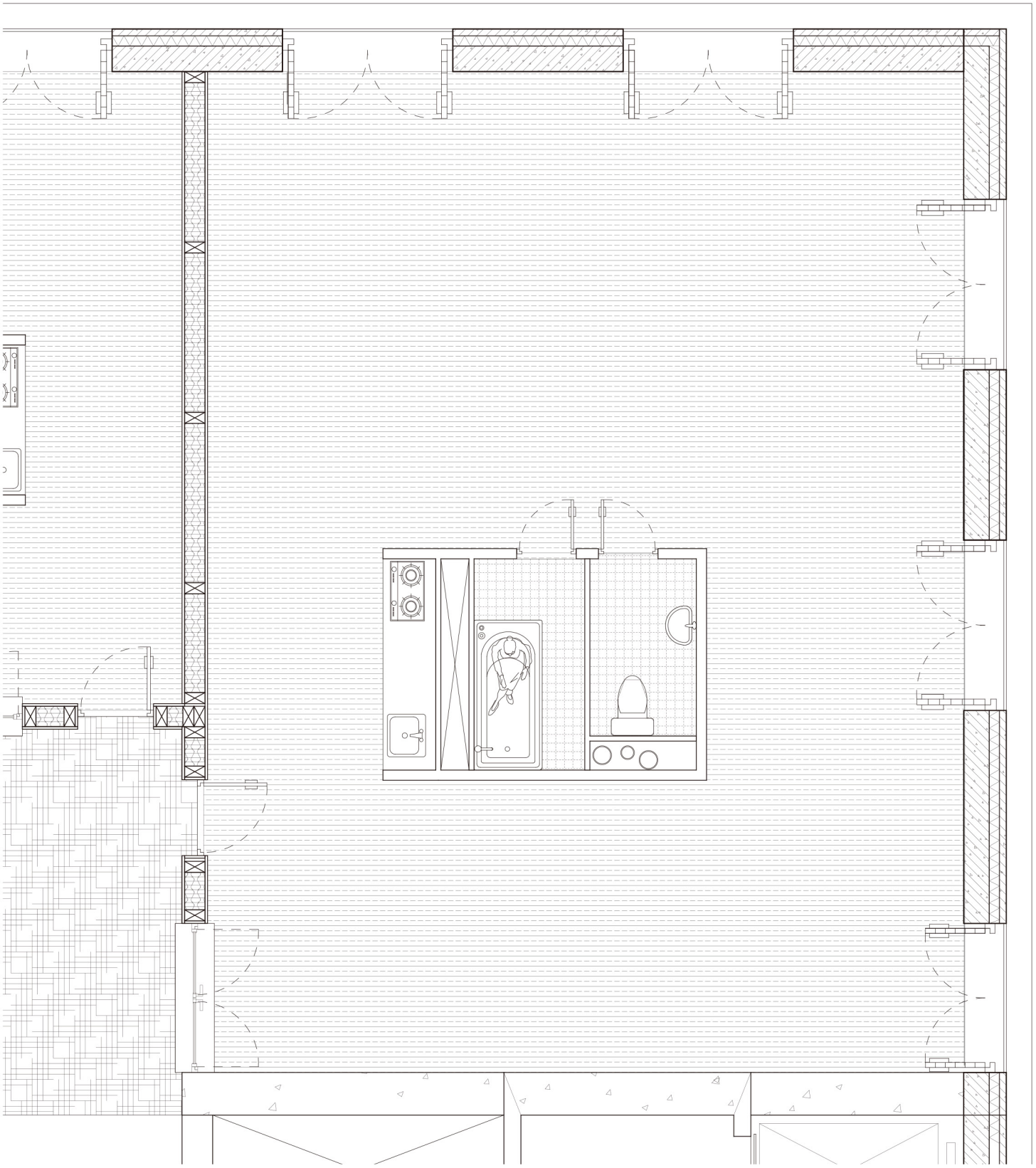
# Housing

Mundanity with Freedom  
86 m²  
For middle size family(one or two Children)



# Housing

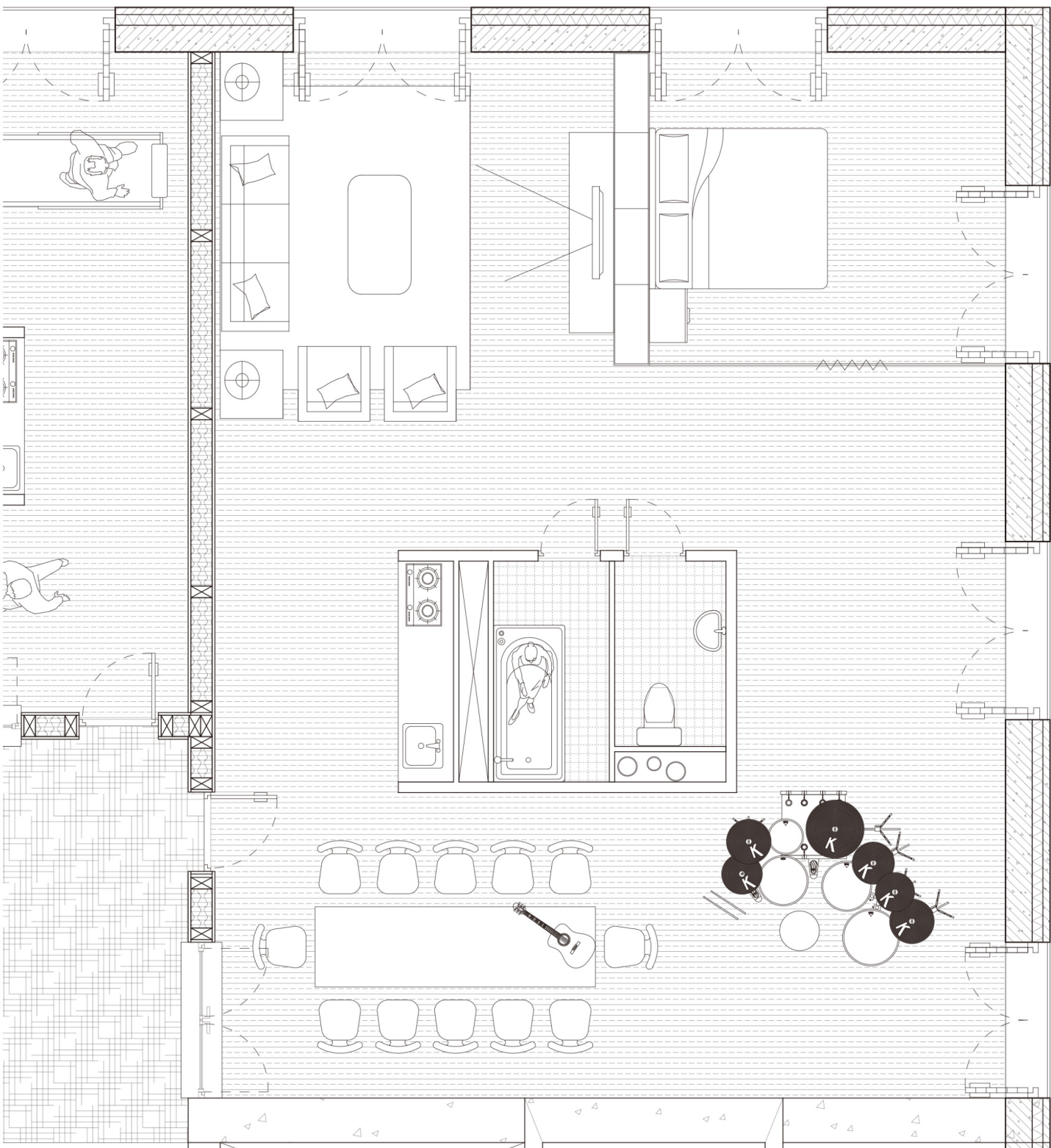
Mundanity with Freedom  
86 m<sup>2</sup>  
For middle size family(one or two Children)



# Housing

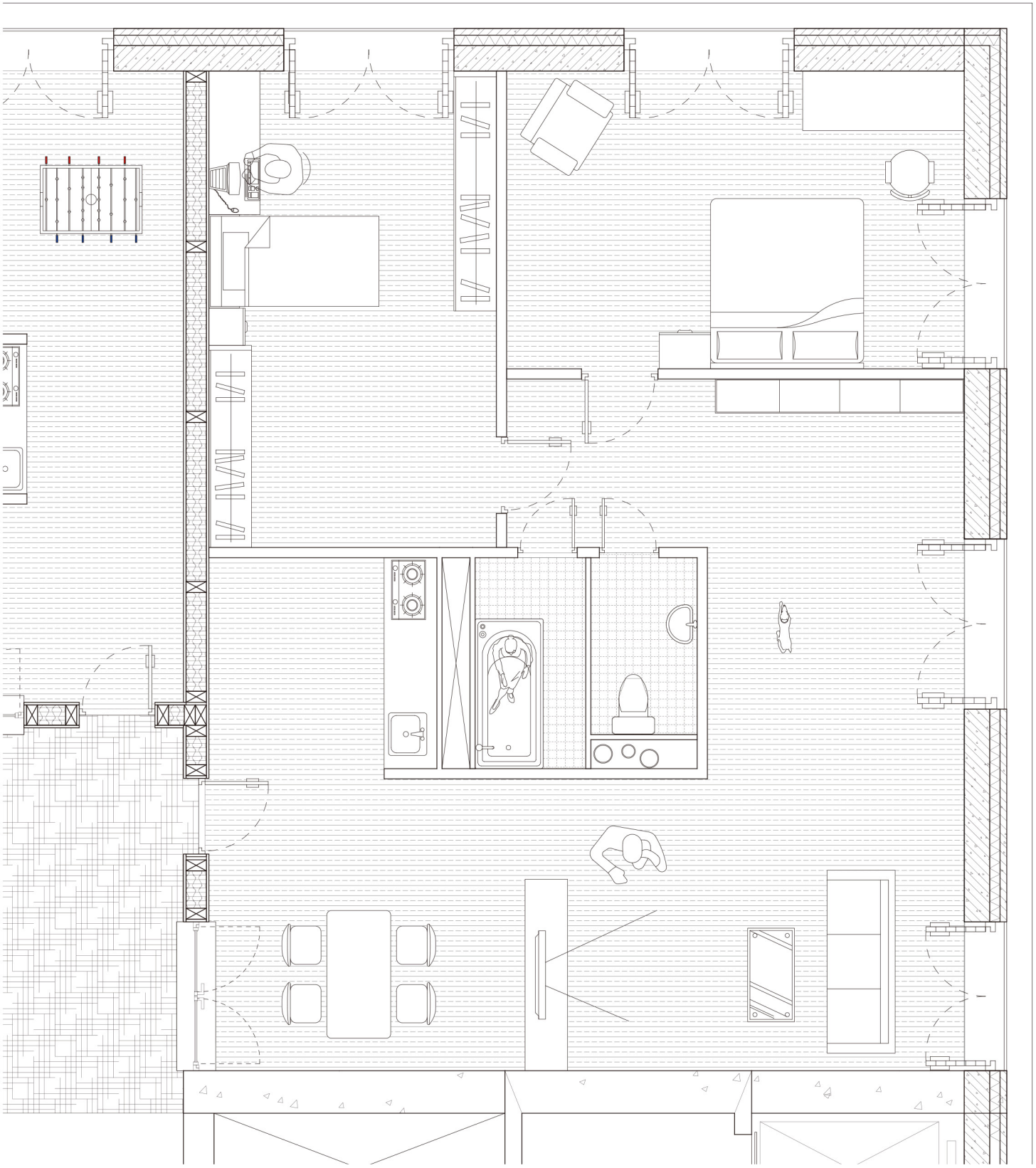
Mundanity with Freedom  
104 m<sup>2</sup>  
For big size family(two or three Children)





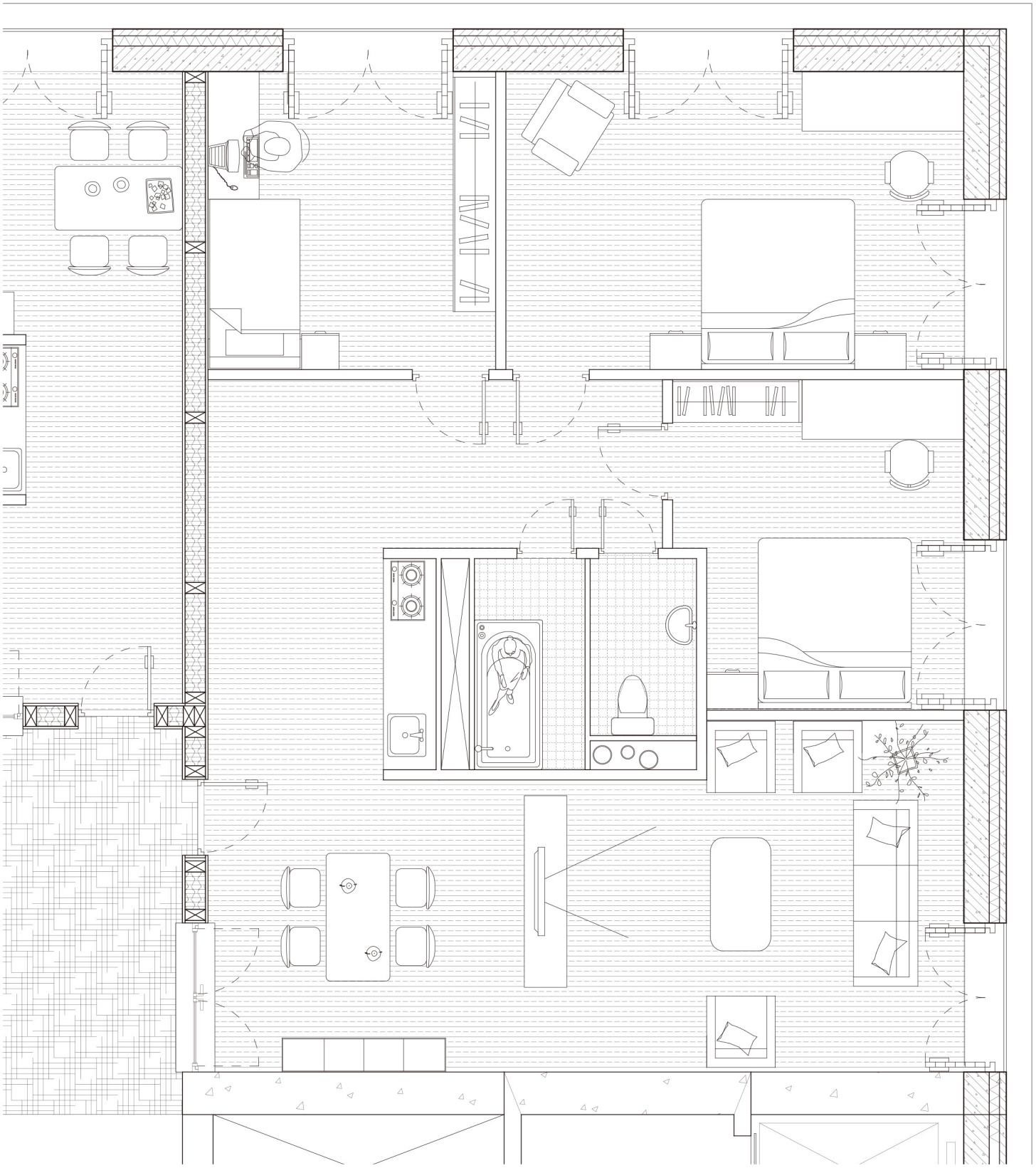
# Housing

Mundanity with Freedom  
104 m<sup>2</sup>  
For big size family(two or three Children)



# Housing

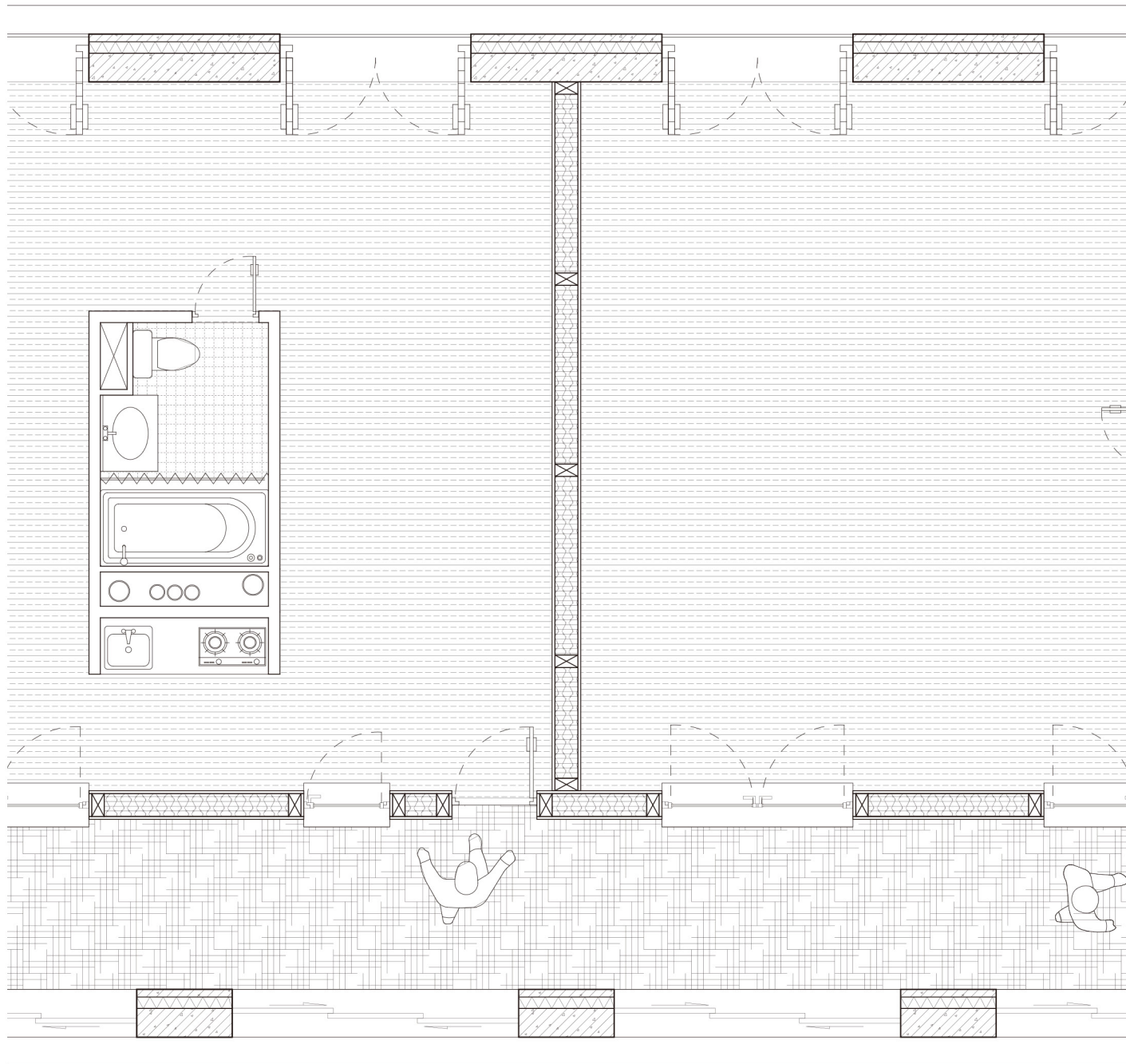
Mundanity with Freedom  
104 m<sup>2</sup>  
For big size family(two or three Children)



# Housing

Mundanity with Freedom  
104 m<sup>2</sup>  
For big size family(two or three Children)





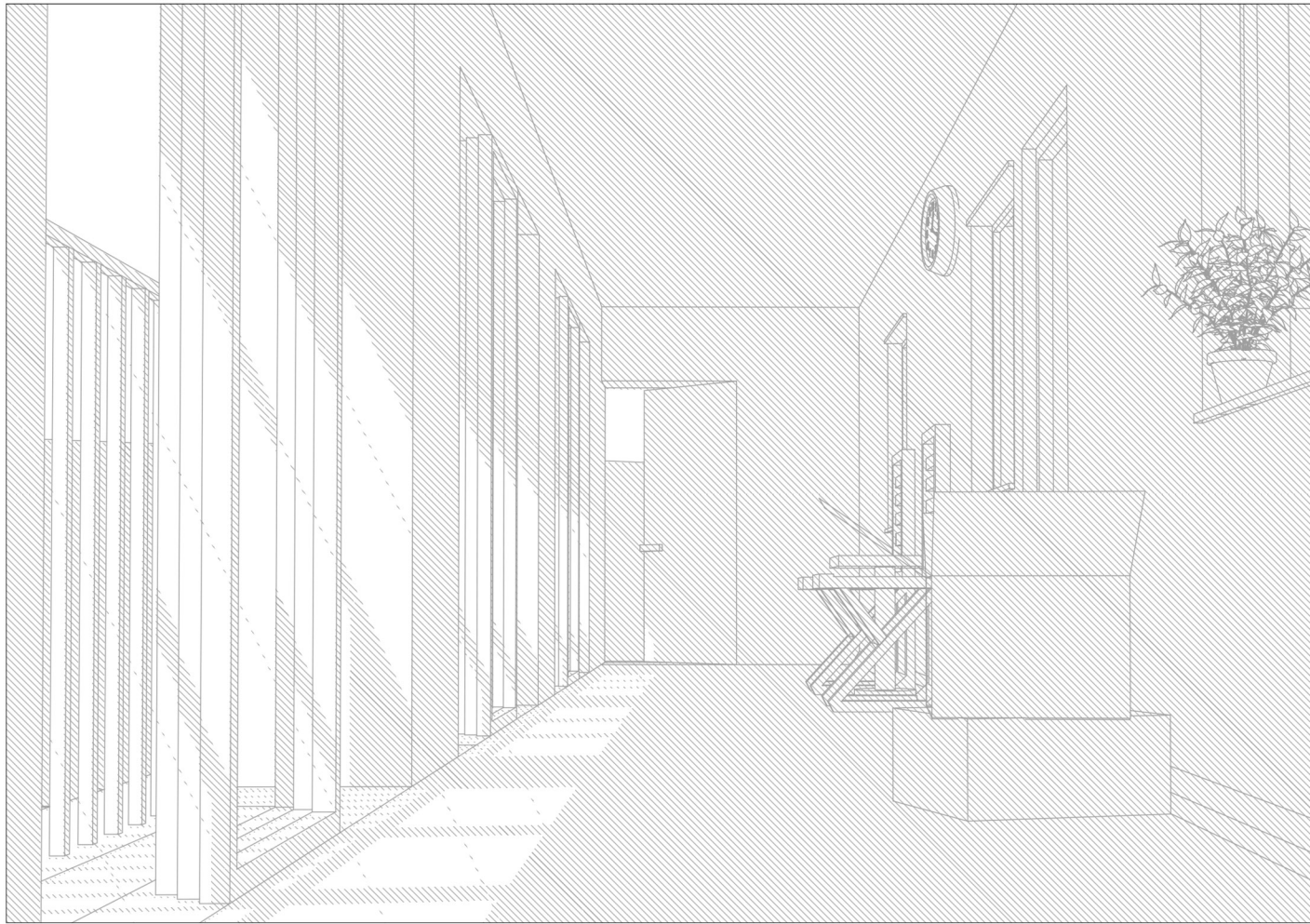
## Housing

Corridor, As a gallery towards courtyard



# Housing

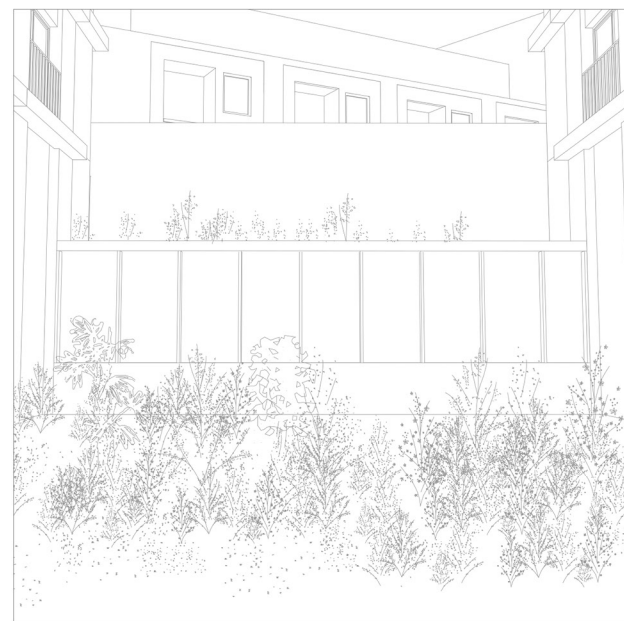
Winter



# Housing

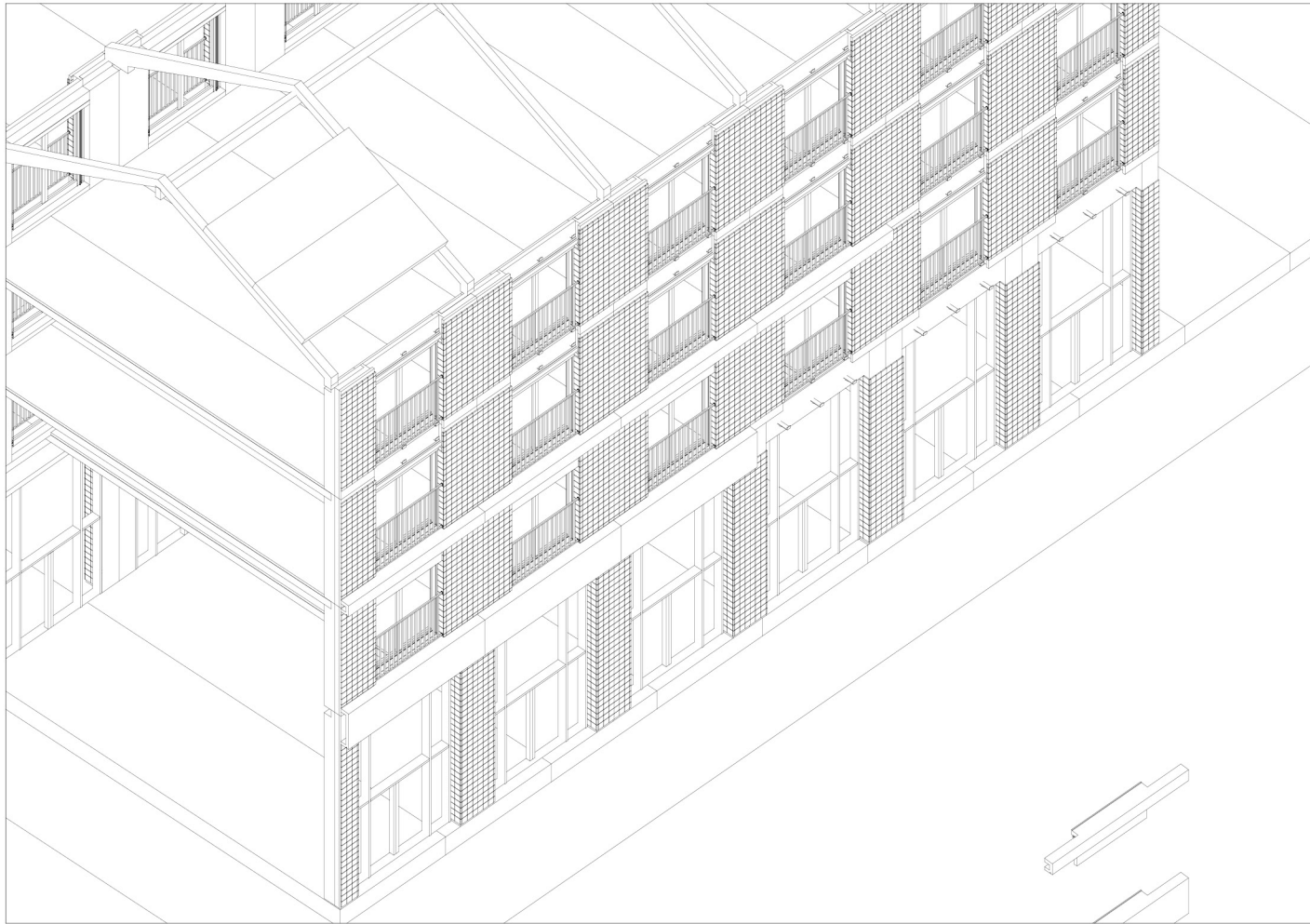
Summer





# Housing

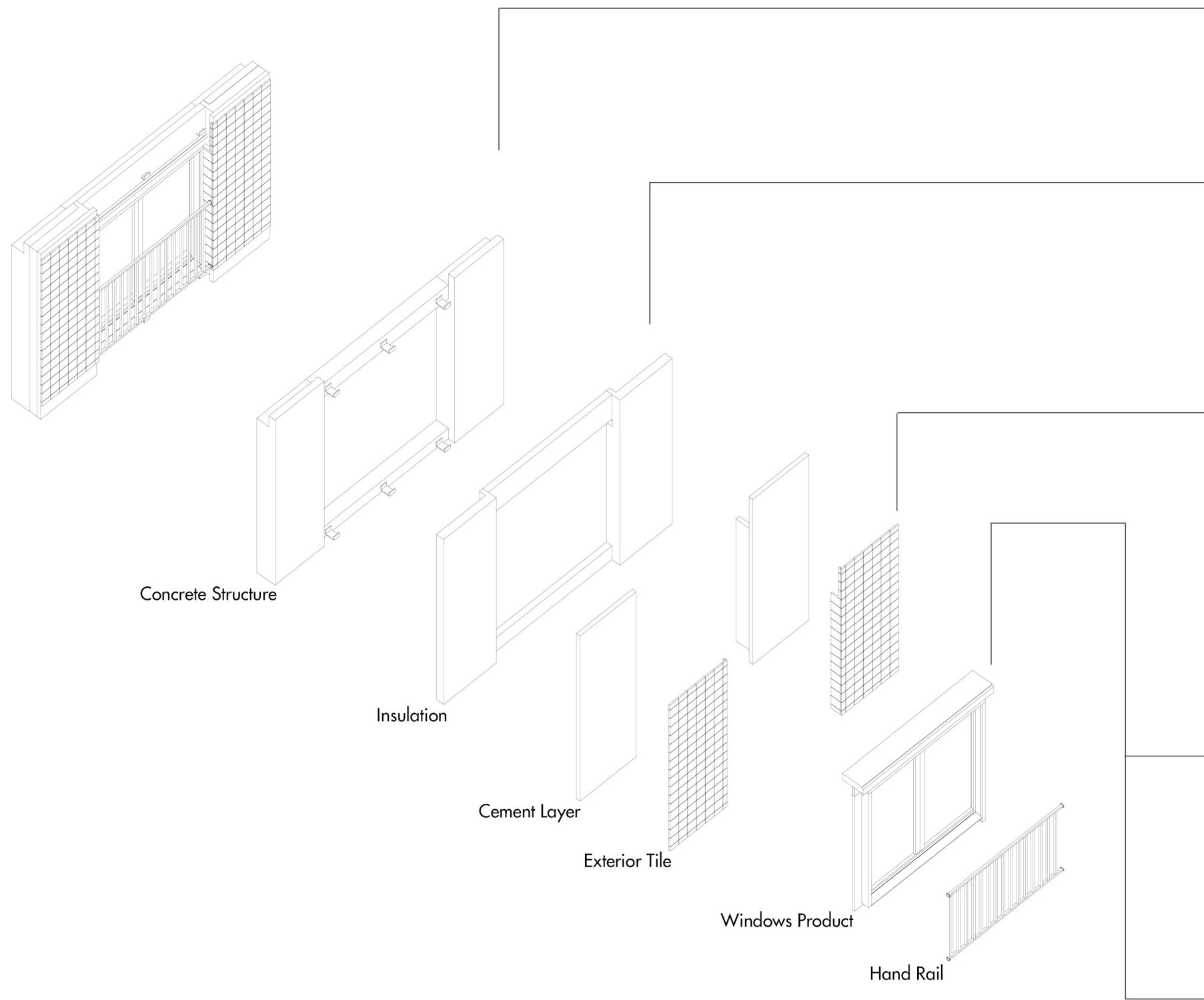
Impressions



## 4.Materialization

Construction, Detailing and Facade

# Sandwich Panel System



Prefabricated Concrete Load Bearing Structure



Thermal Insulation



Autumn Brown Tile  
Brand: Walls and Floors Ltd

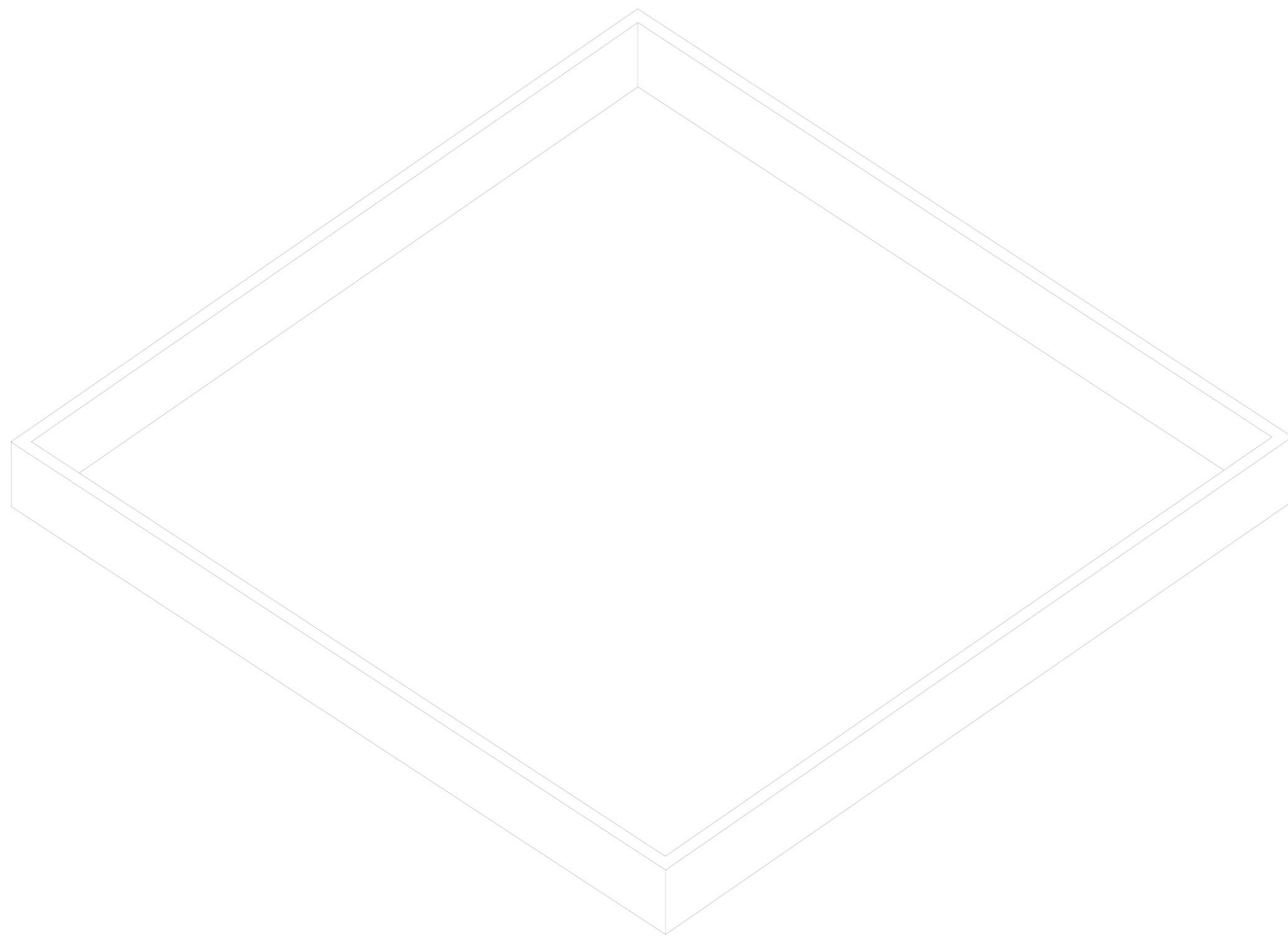


Electric Ventilator  
Brand: Schüco  
Schüco VentoTherm Twist, ventilation system with cover kit  
Decentralised window ventilator with heat recovery



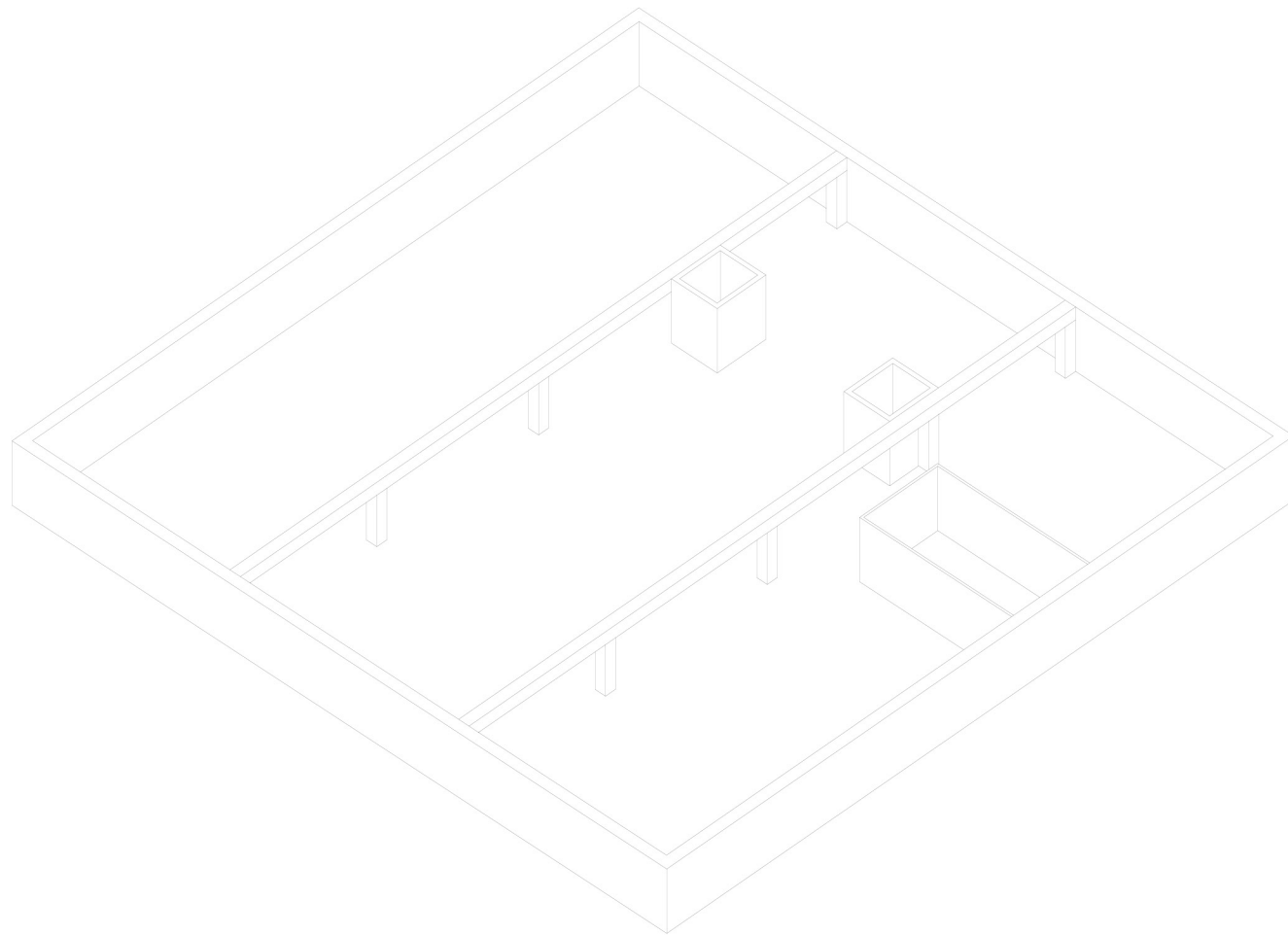
Aluminium Frame Door  
Brand: WICONA  
WICLINE 75 evo  
French door, barrier free





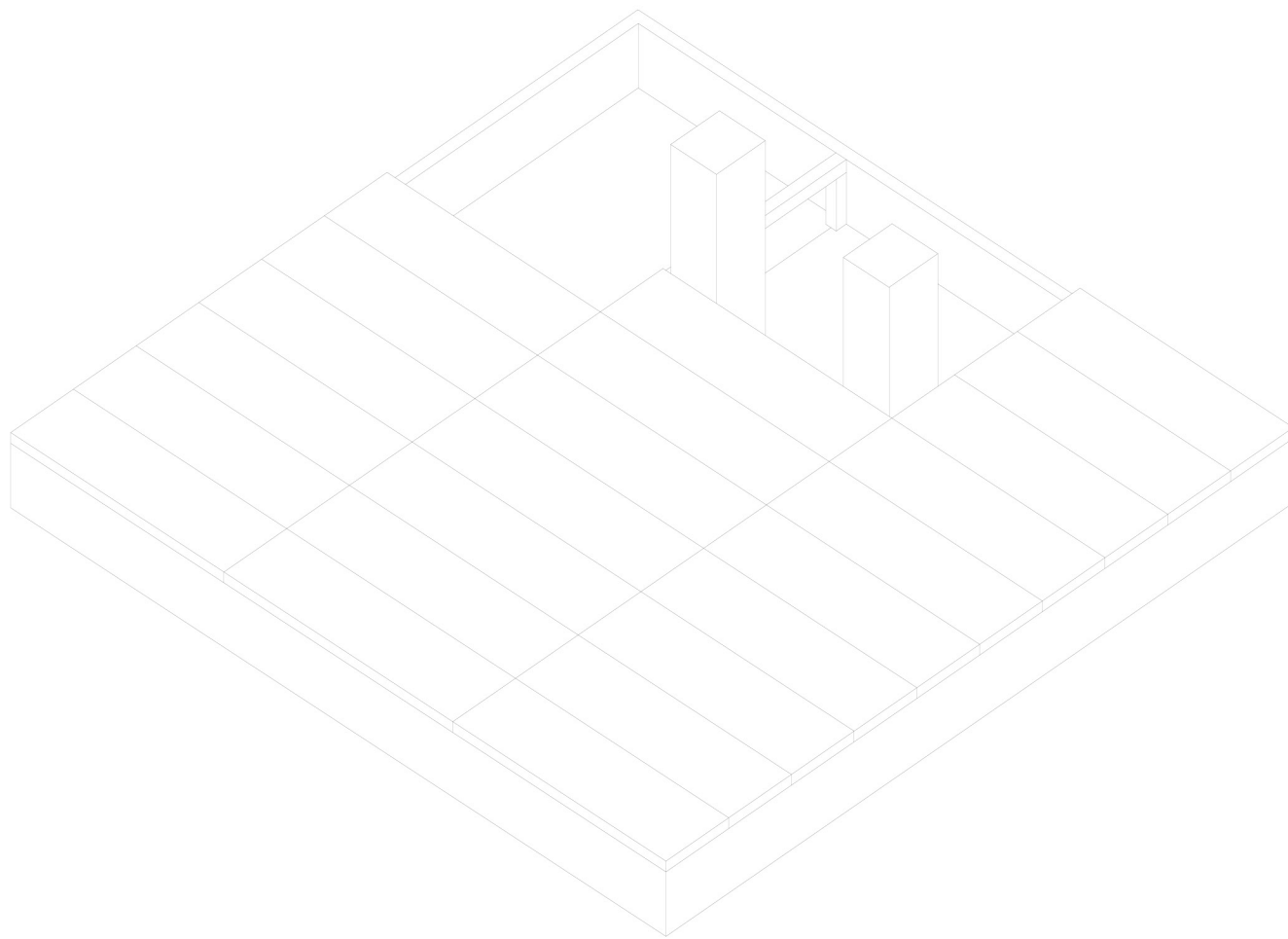
## Construction Process

Prefabrication



## Construction Process

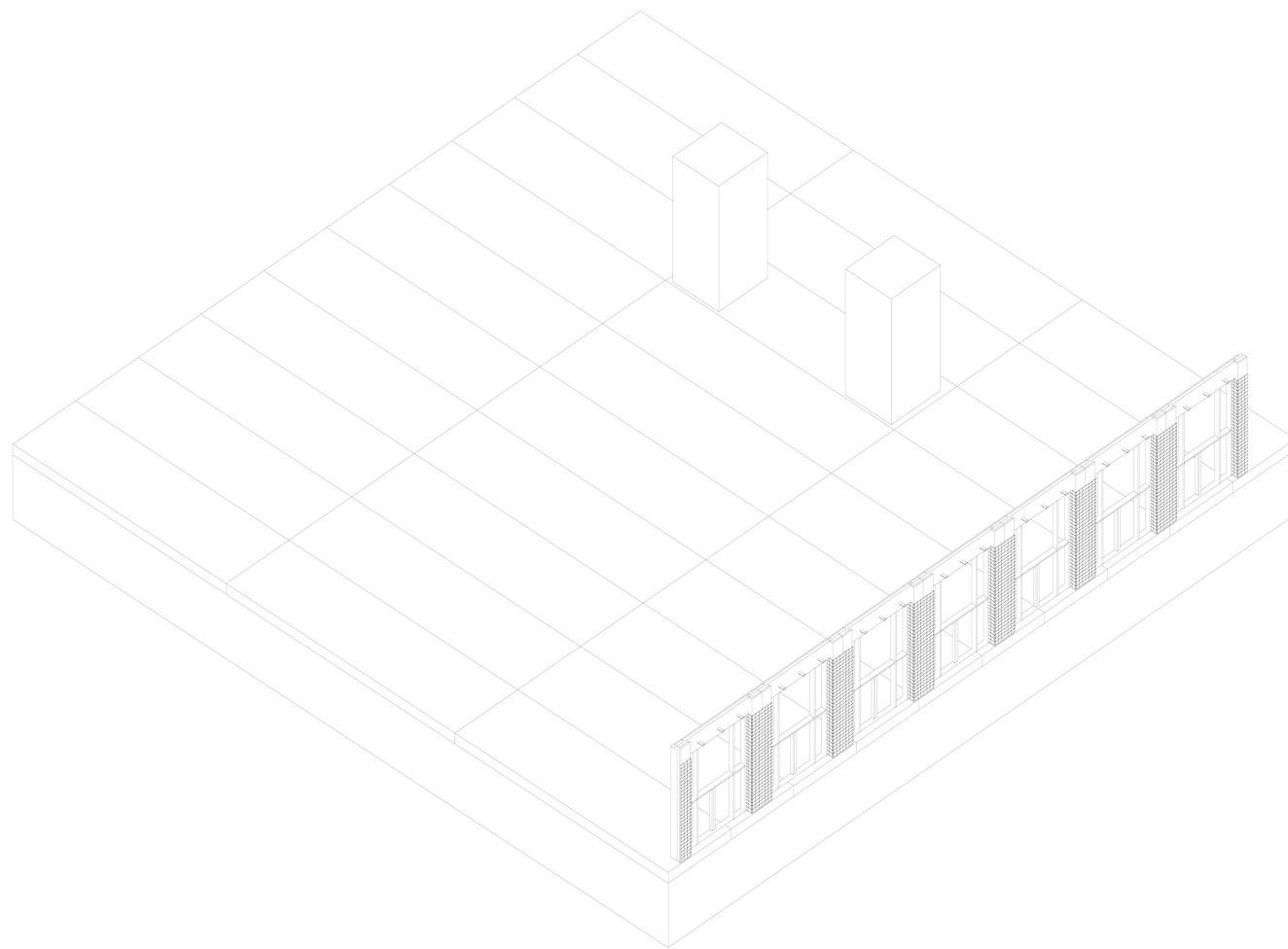
Prefabrication



## Construction Process

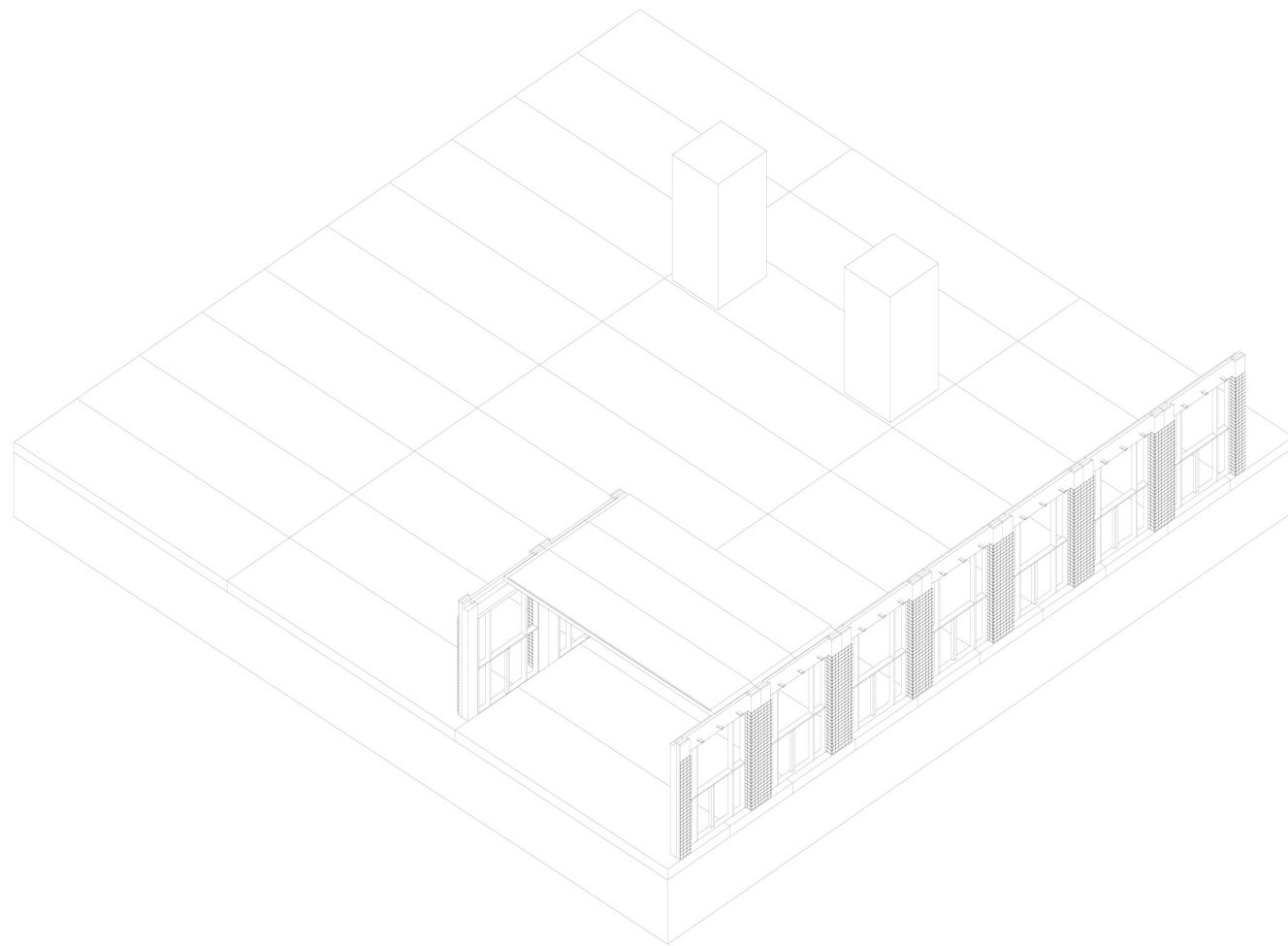
Prefabrication





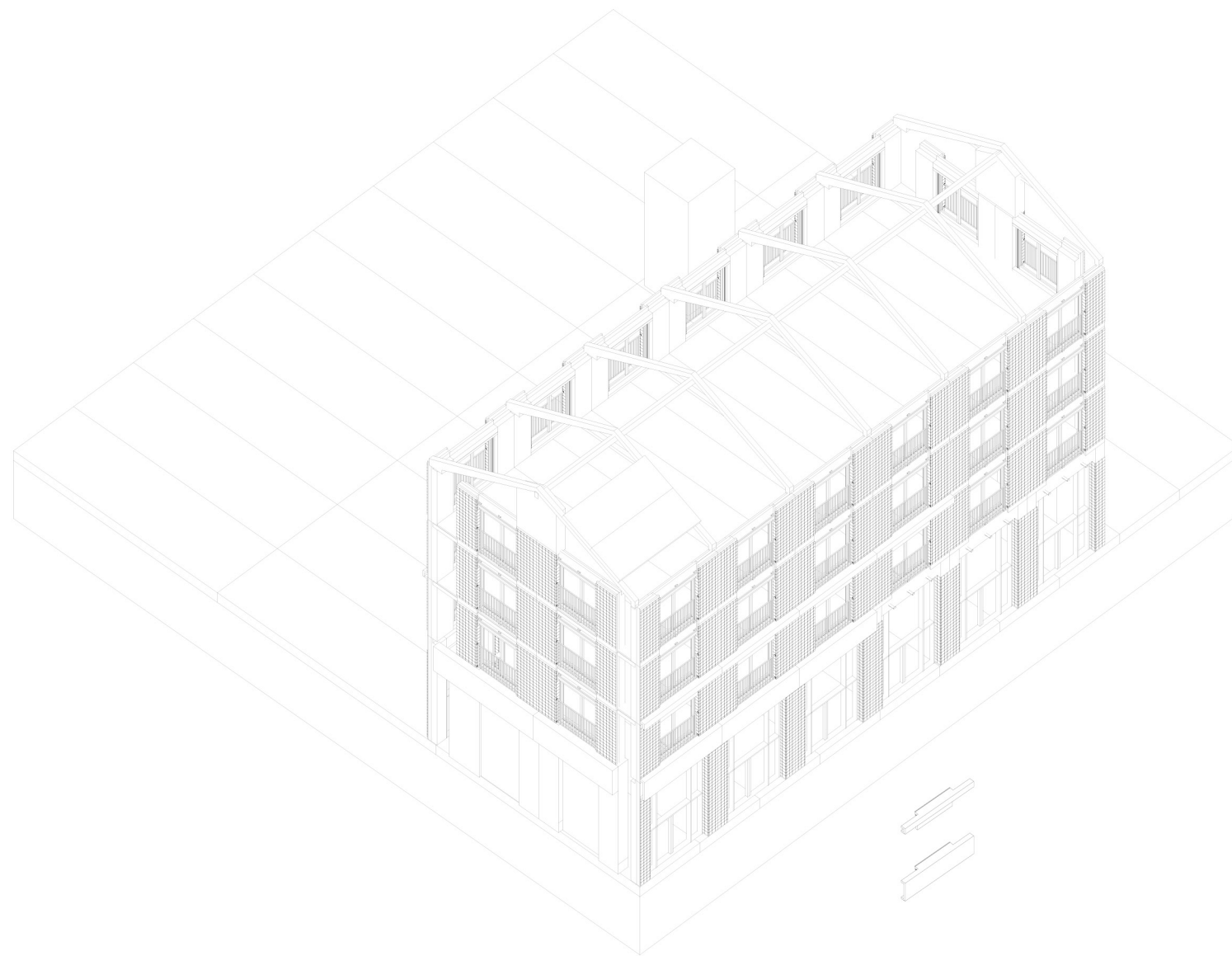
## Construction Process

Prefabrication



## Construction Process

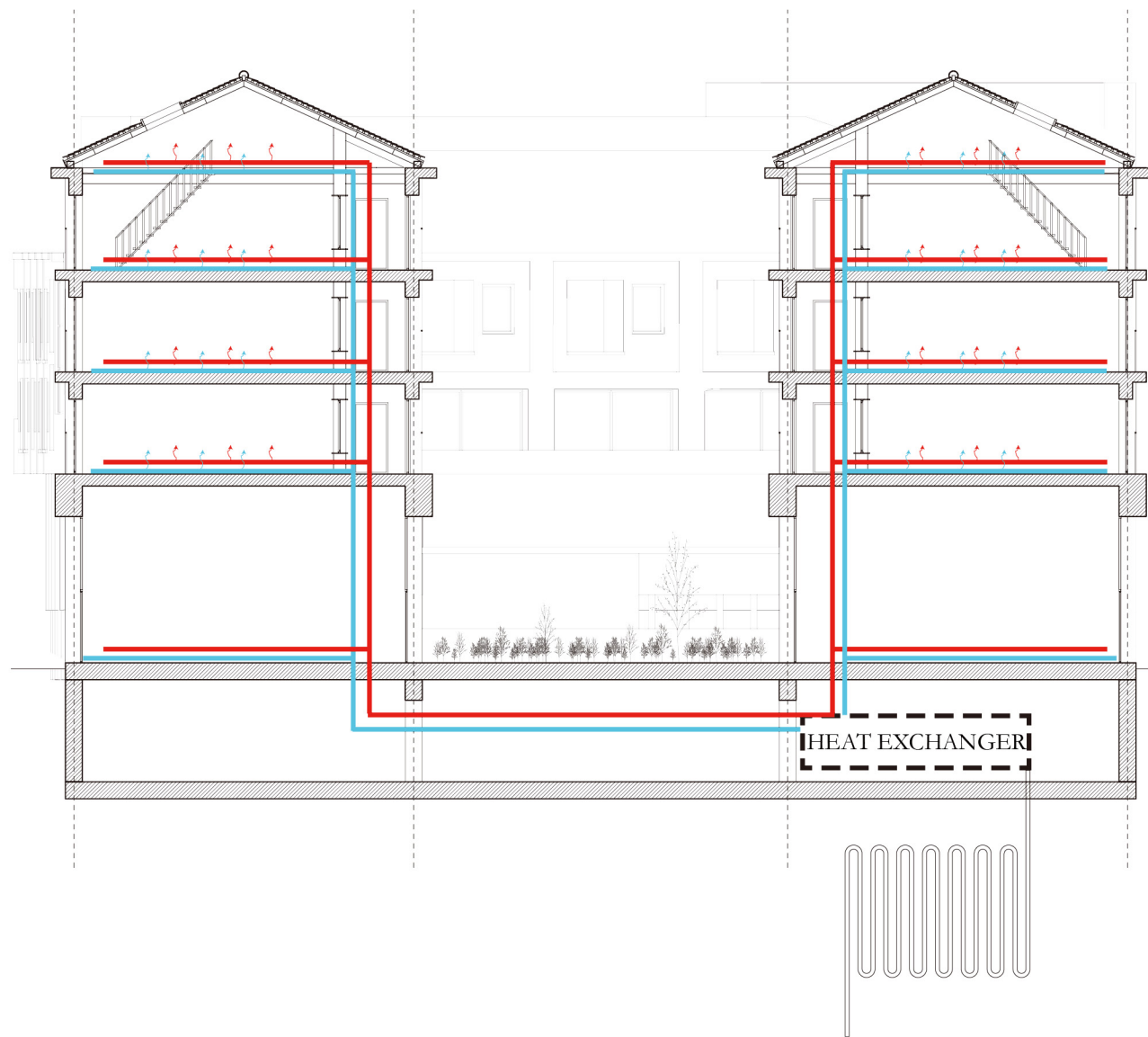
Prefabrication



## Construction Process

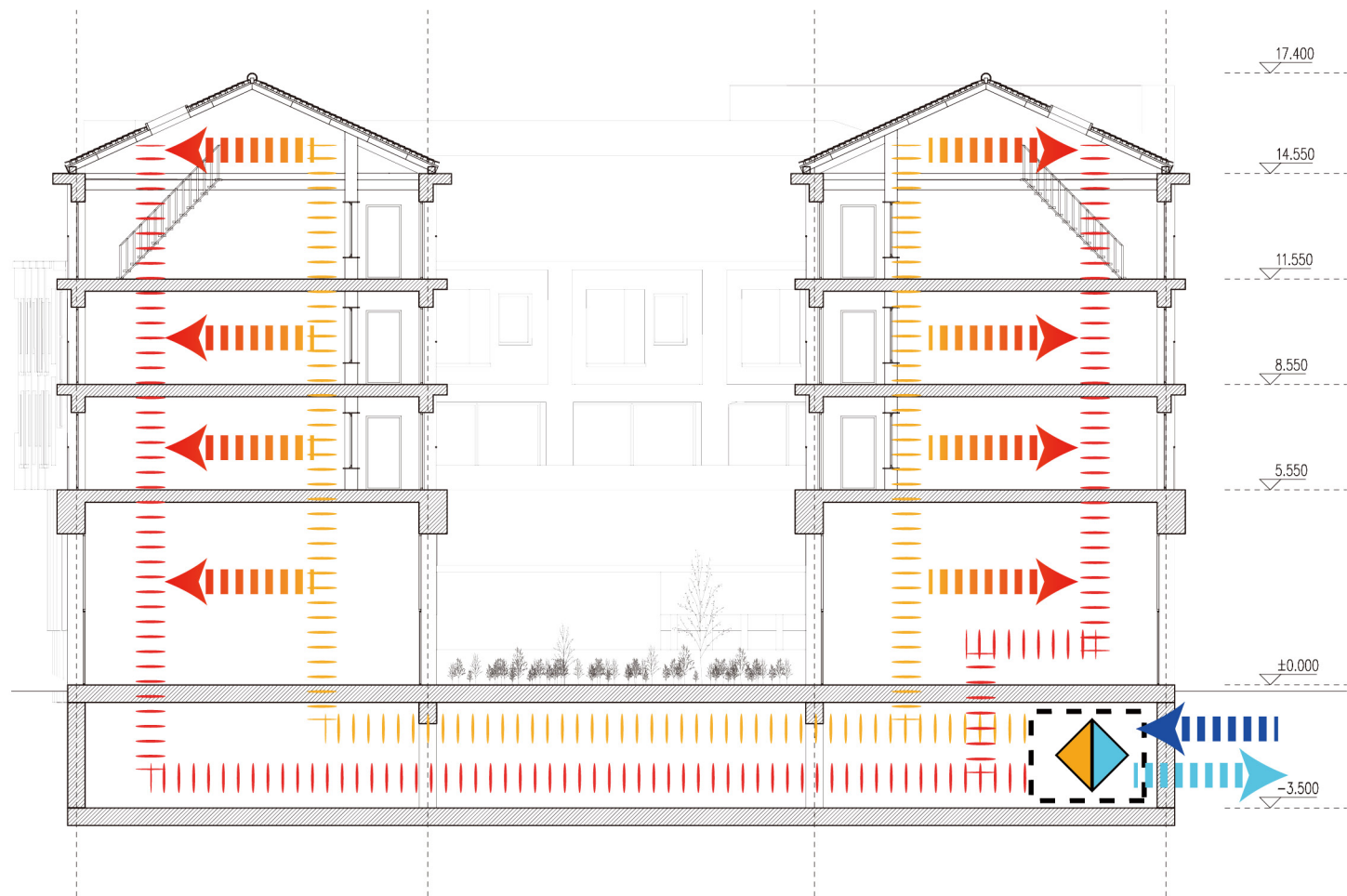
Prefabrication





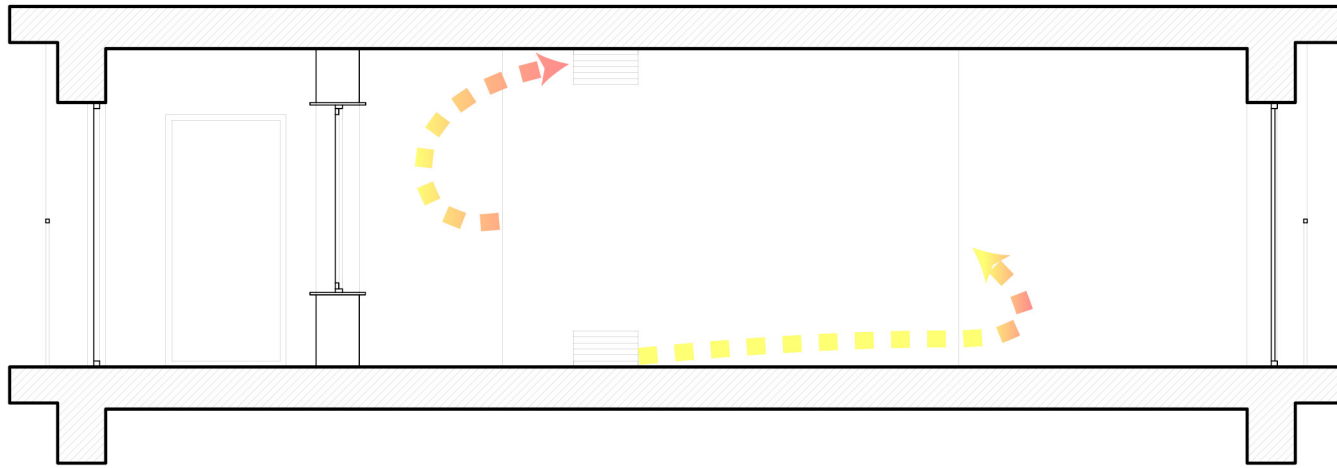
# Heating and Cooling System

Ground Source Heat Pump



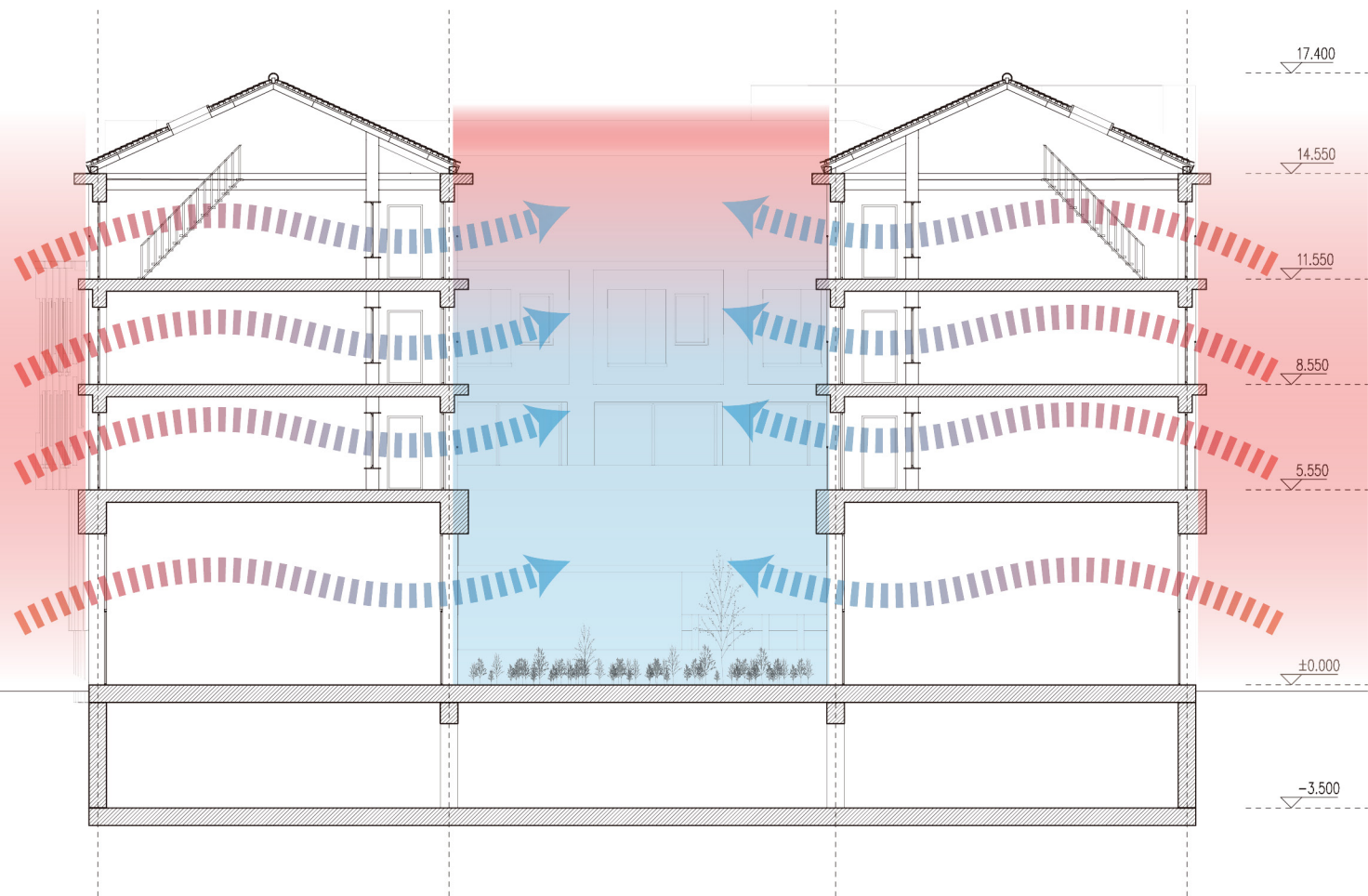
# Ventilation

Mechanical Ventilation



# Ventilation

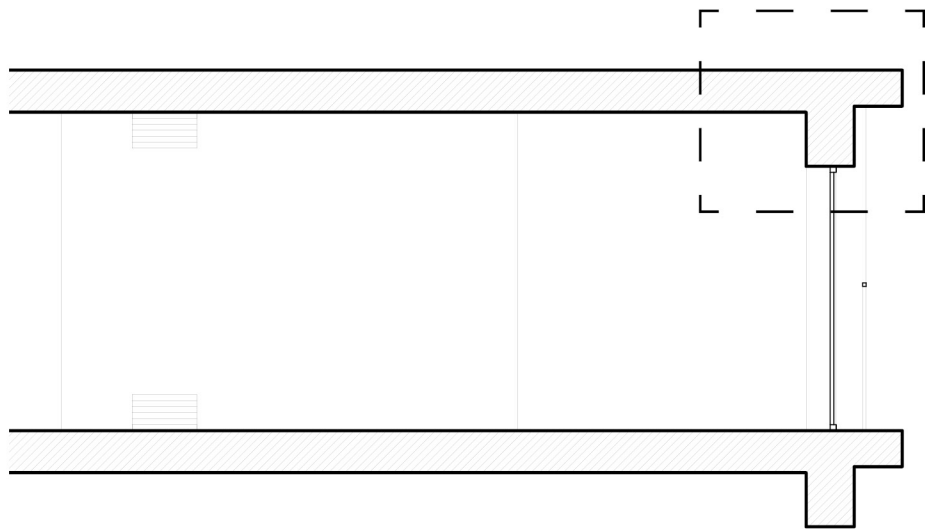
Mechanical Ventilation



# Ventilation

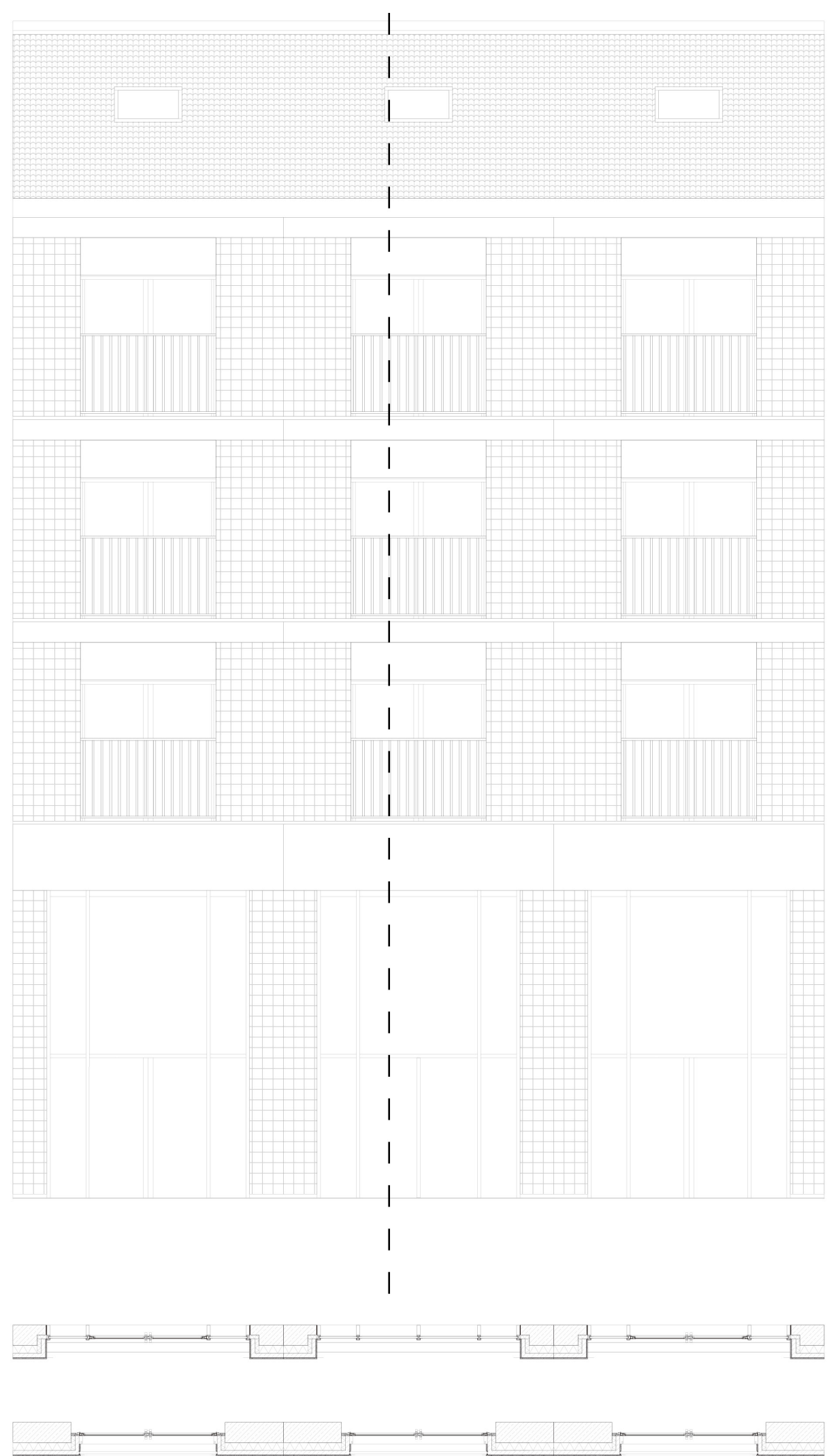
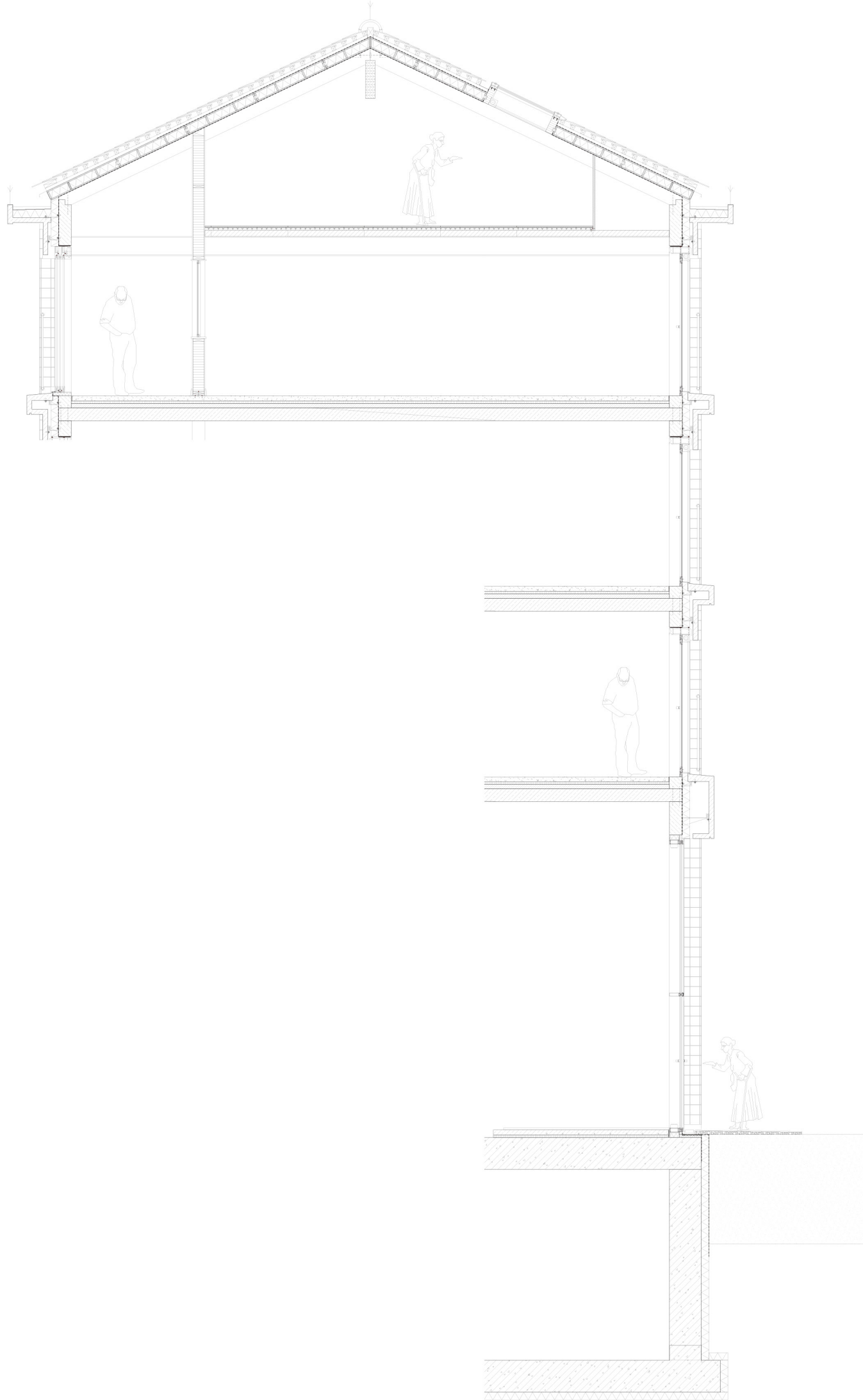
Nature Ventilation

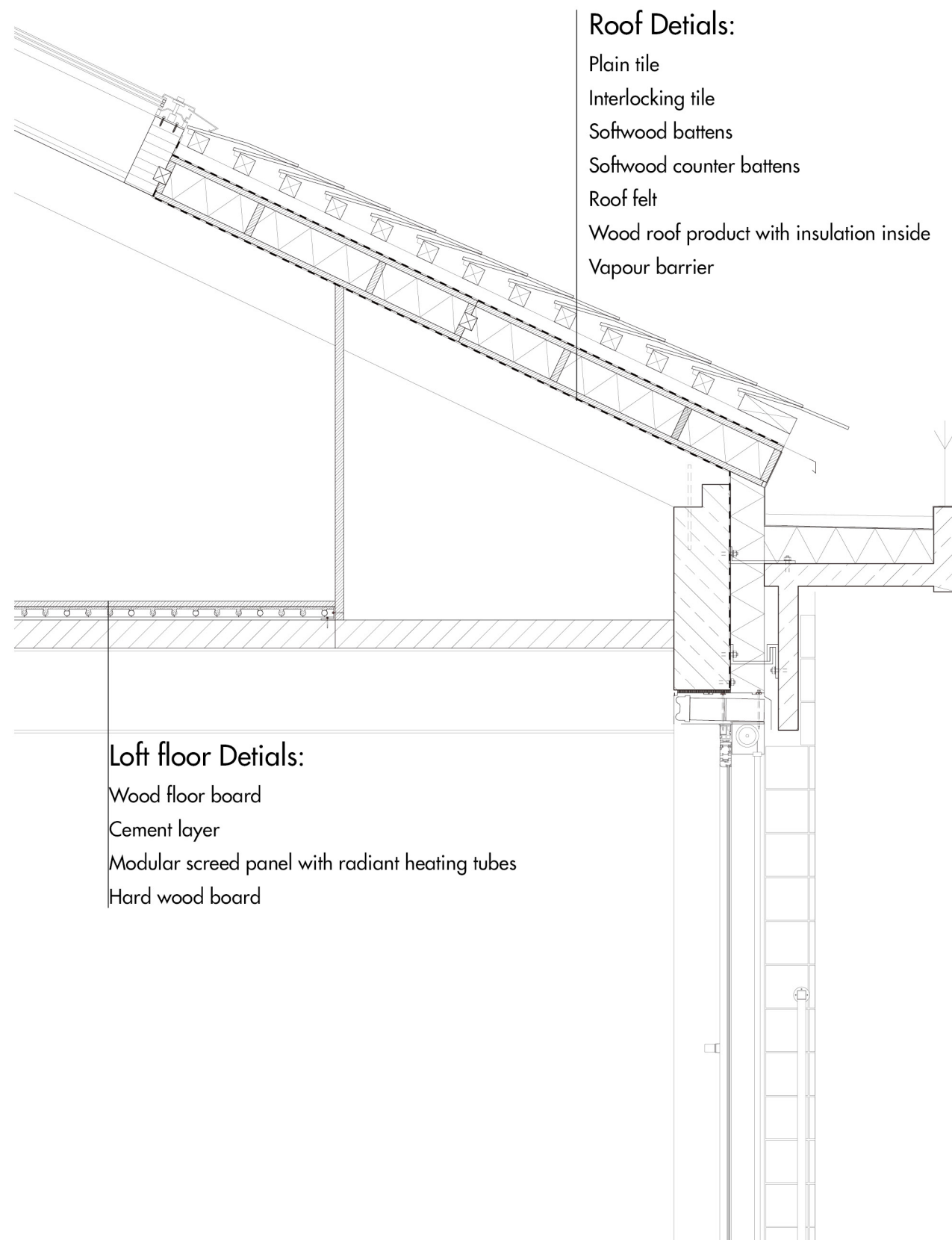




# Ventilation

Nature Ventilation



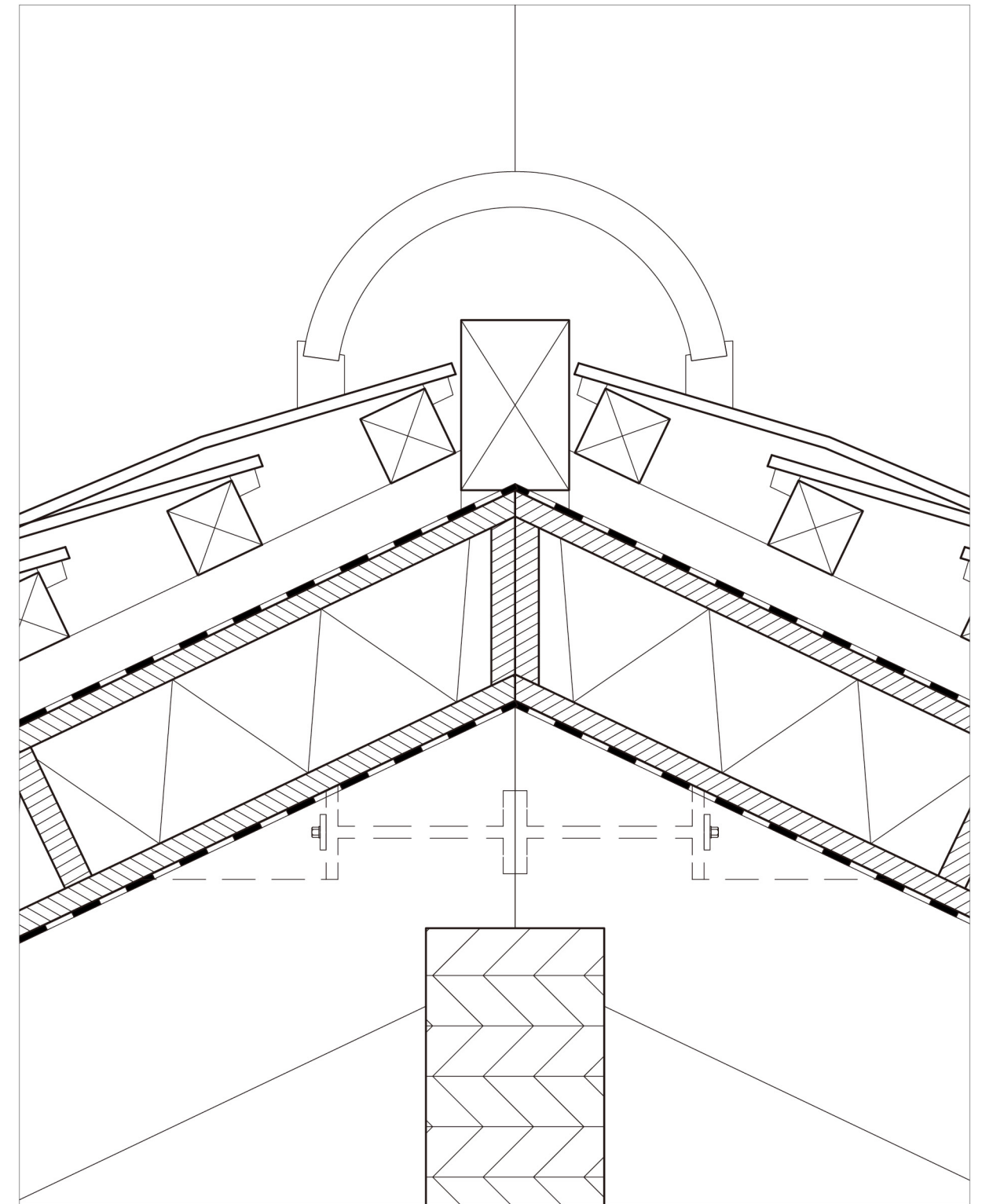
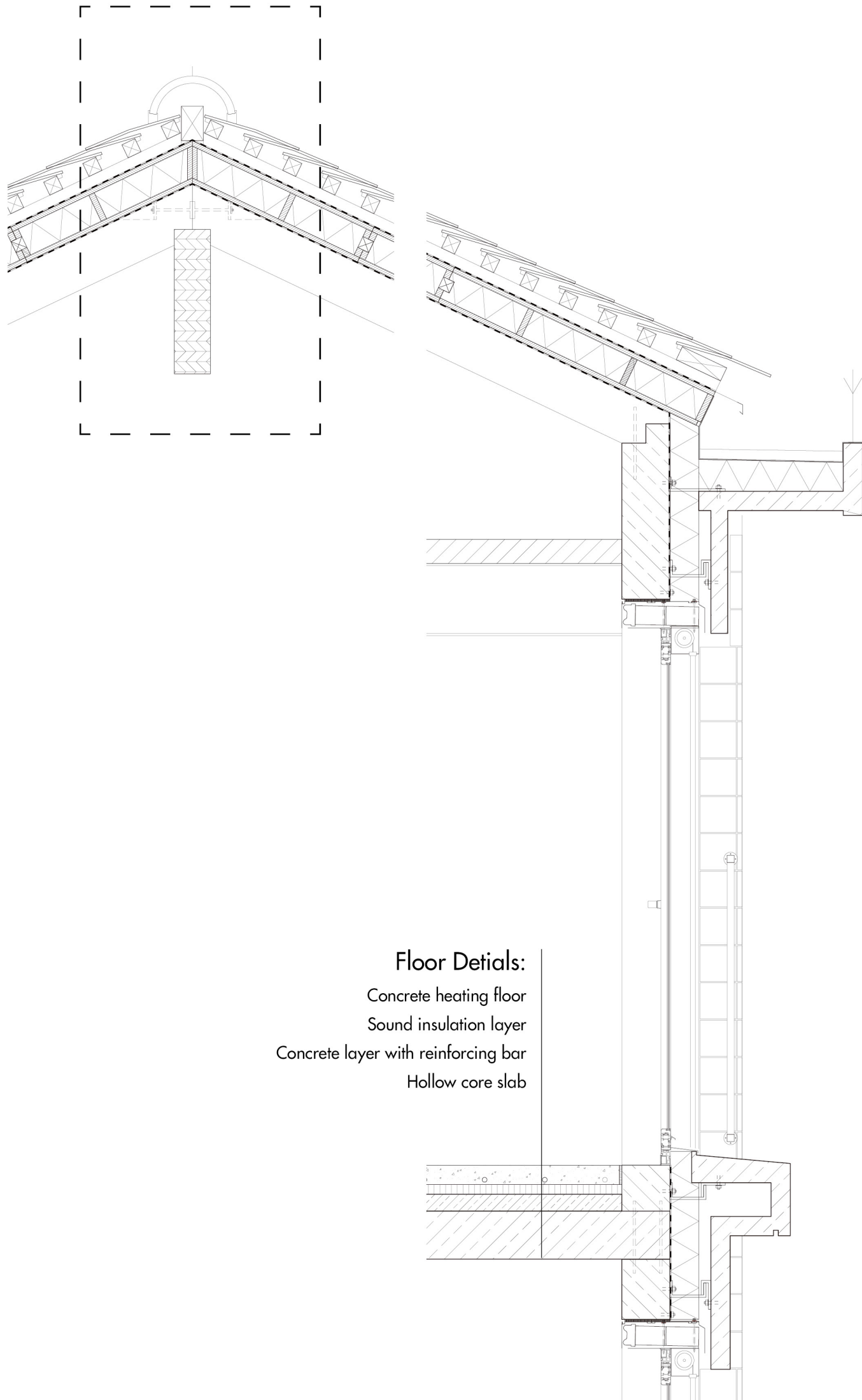


### Roof Details:

- Plain tile
- Interlocking tile
- Softwood battens
- Softwood counter battens
- Roof felt
- Wood roof product with insulation inside
- Vapour barrier

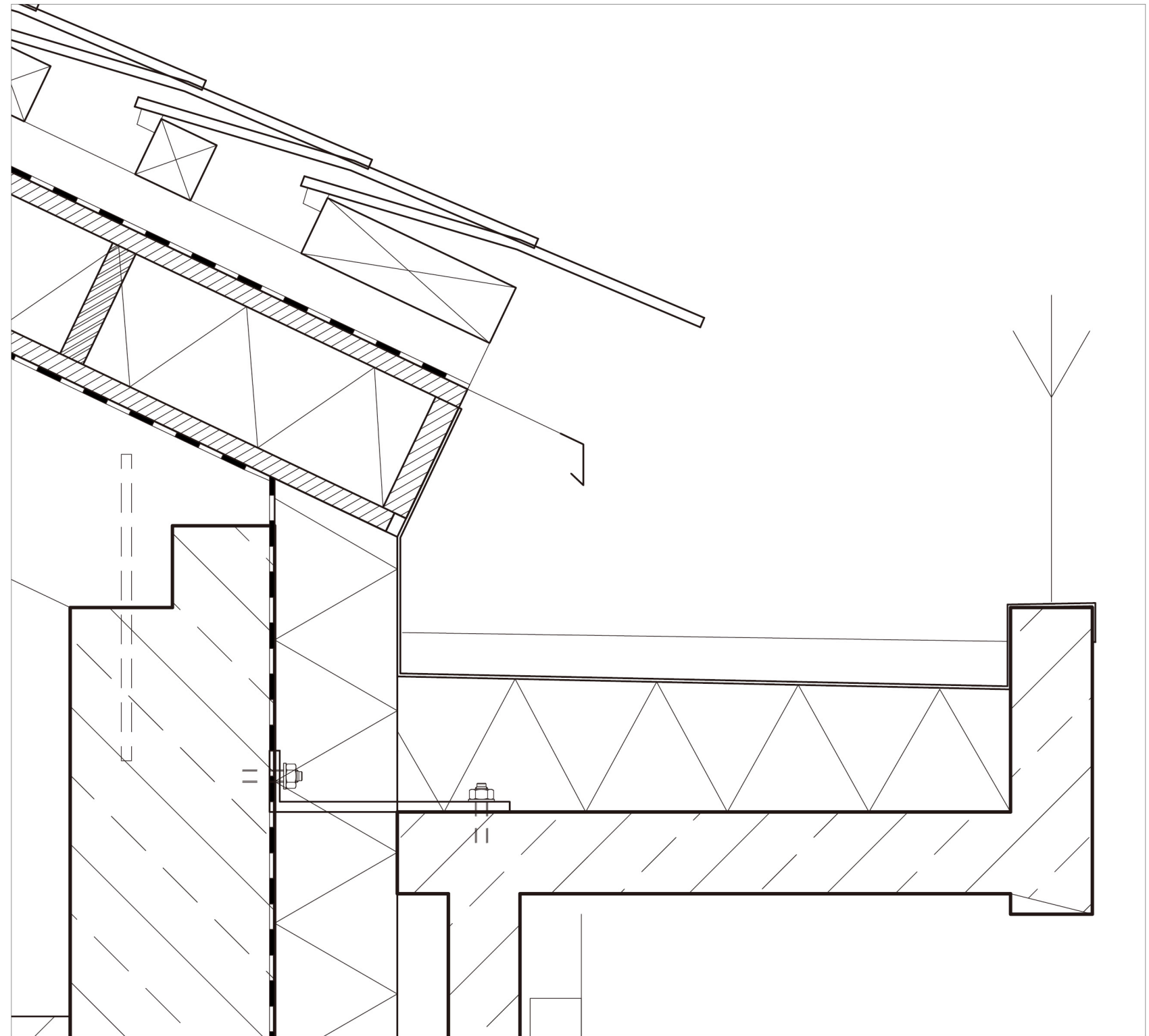
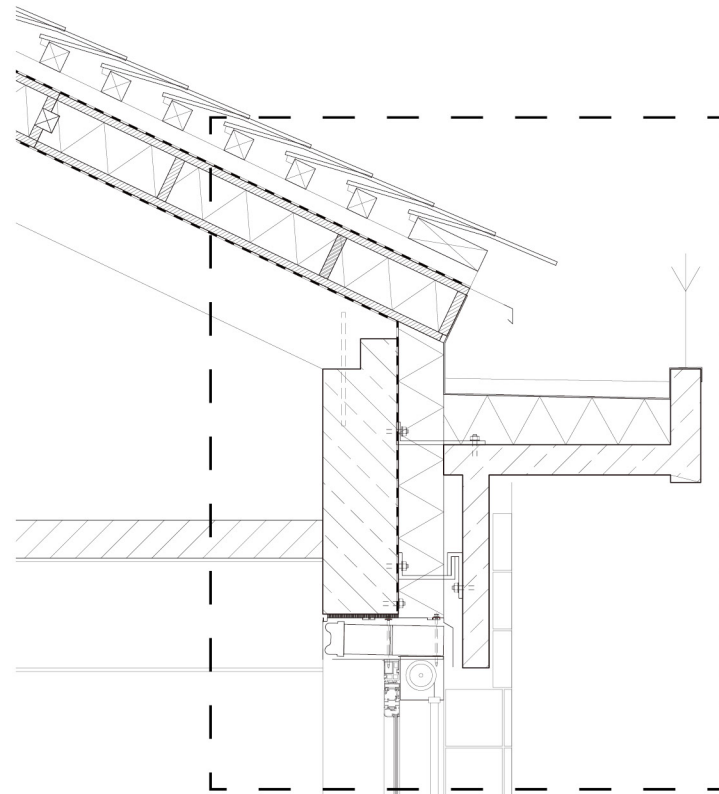
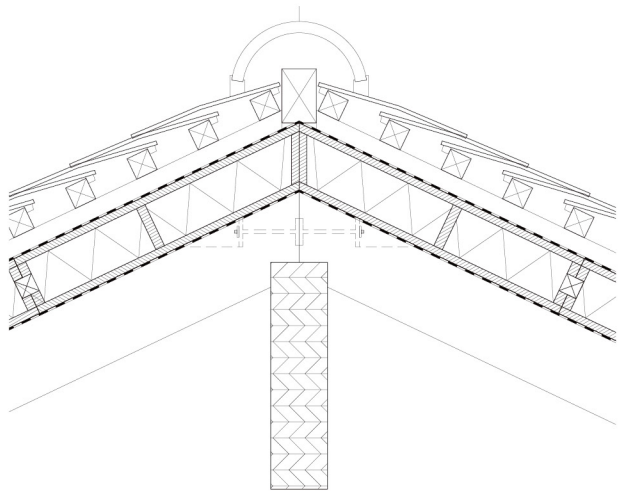
### Loft floor Details:

- Wood floor board
- Cement layer
- Modular screed panel with radiant heating tubes
- Hard wood board

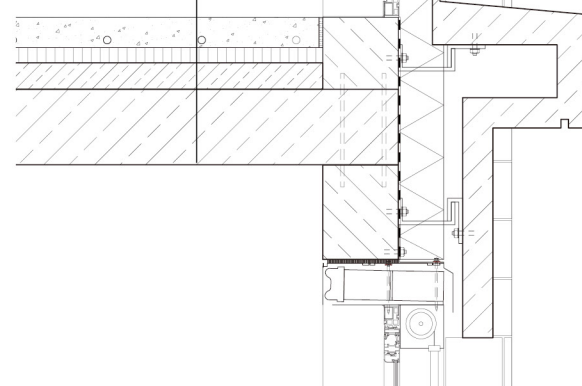


Detailing 1:20 and 1:5

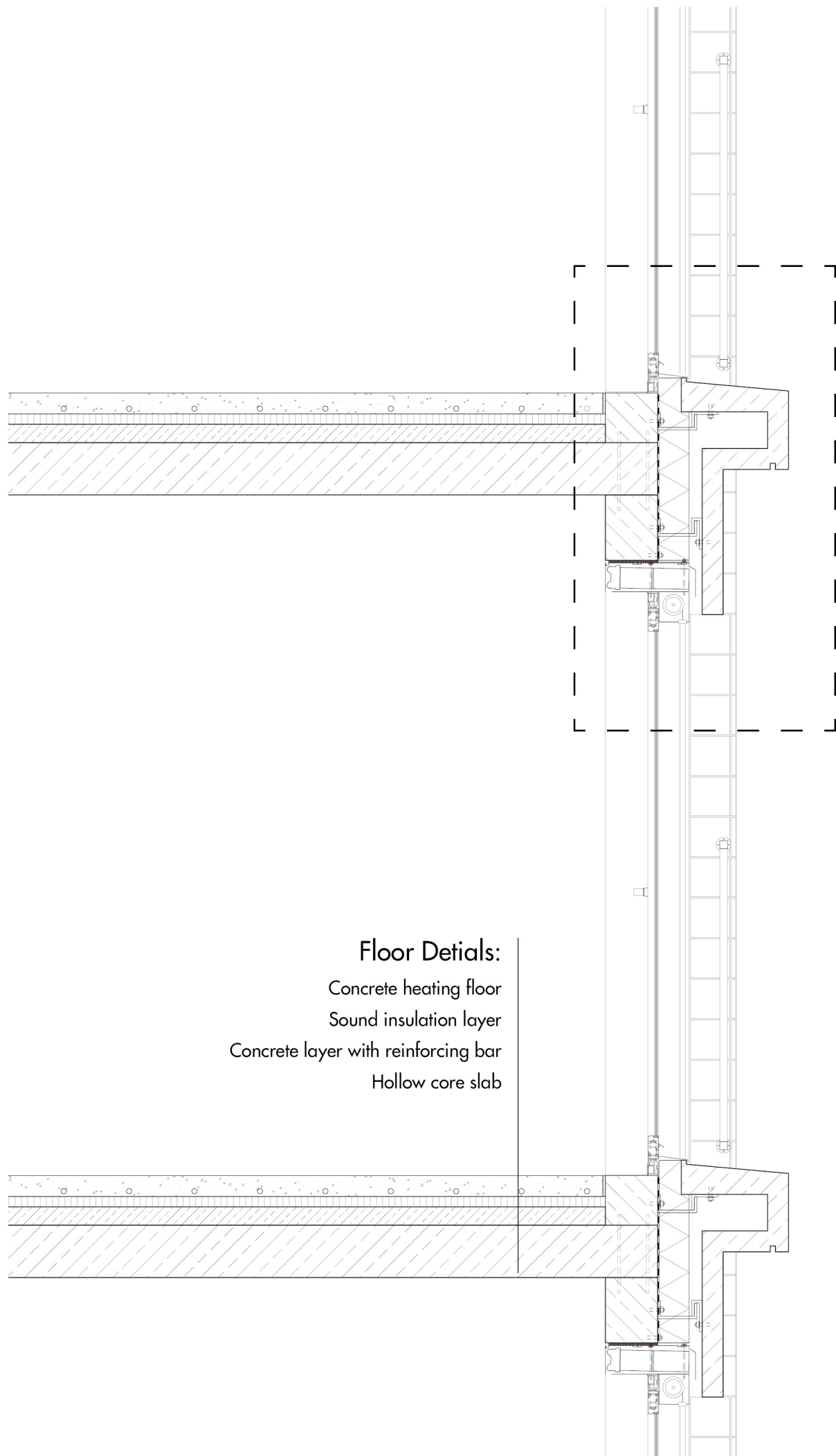




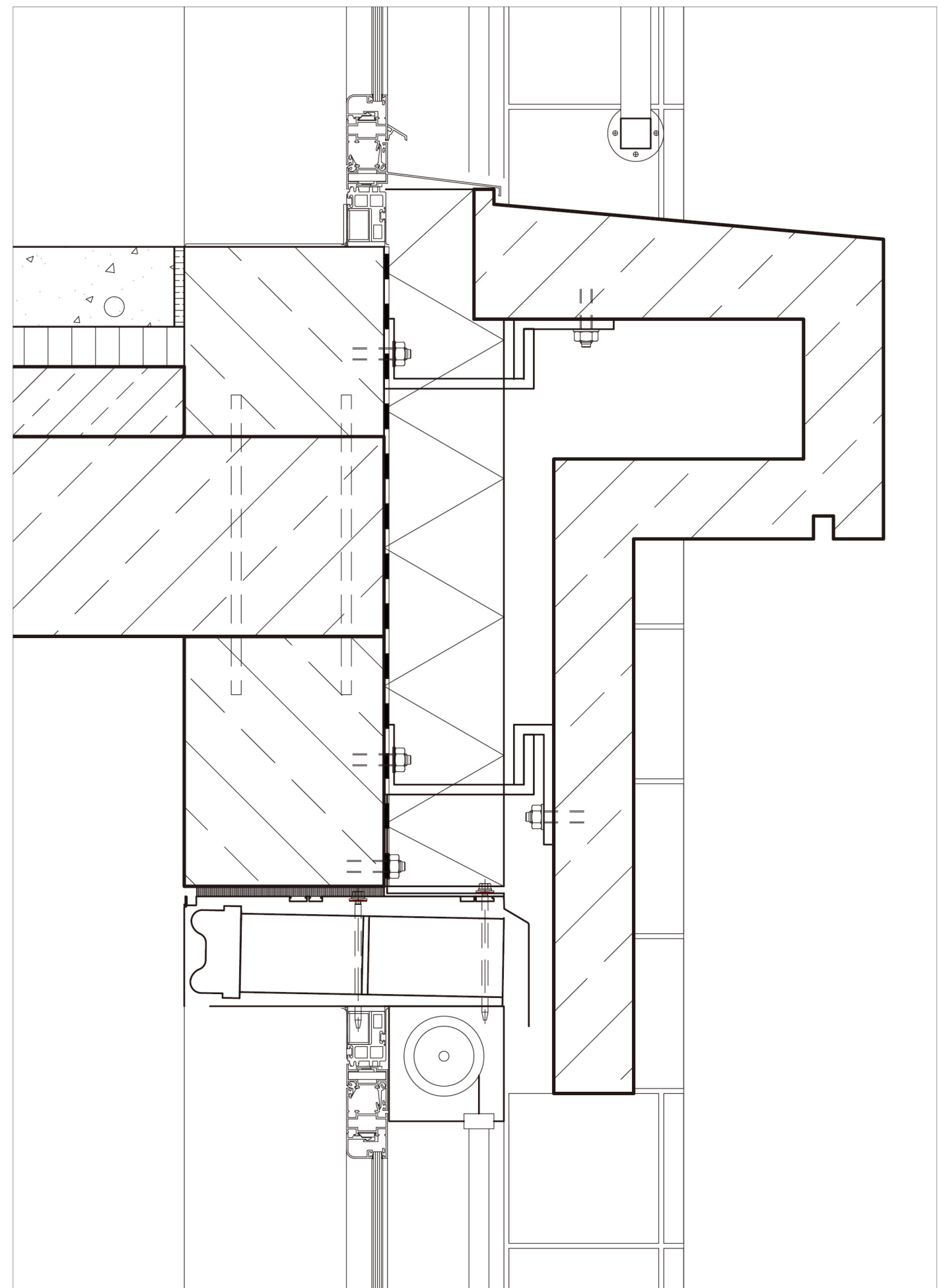
Floor Details:  
 Concrete heating floor  
 Sound insulation layer  
 Concrete layer with reinforcing bar  
 Hollow core slab

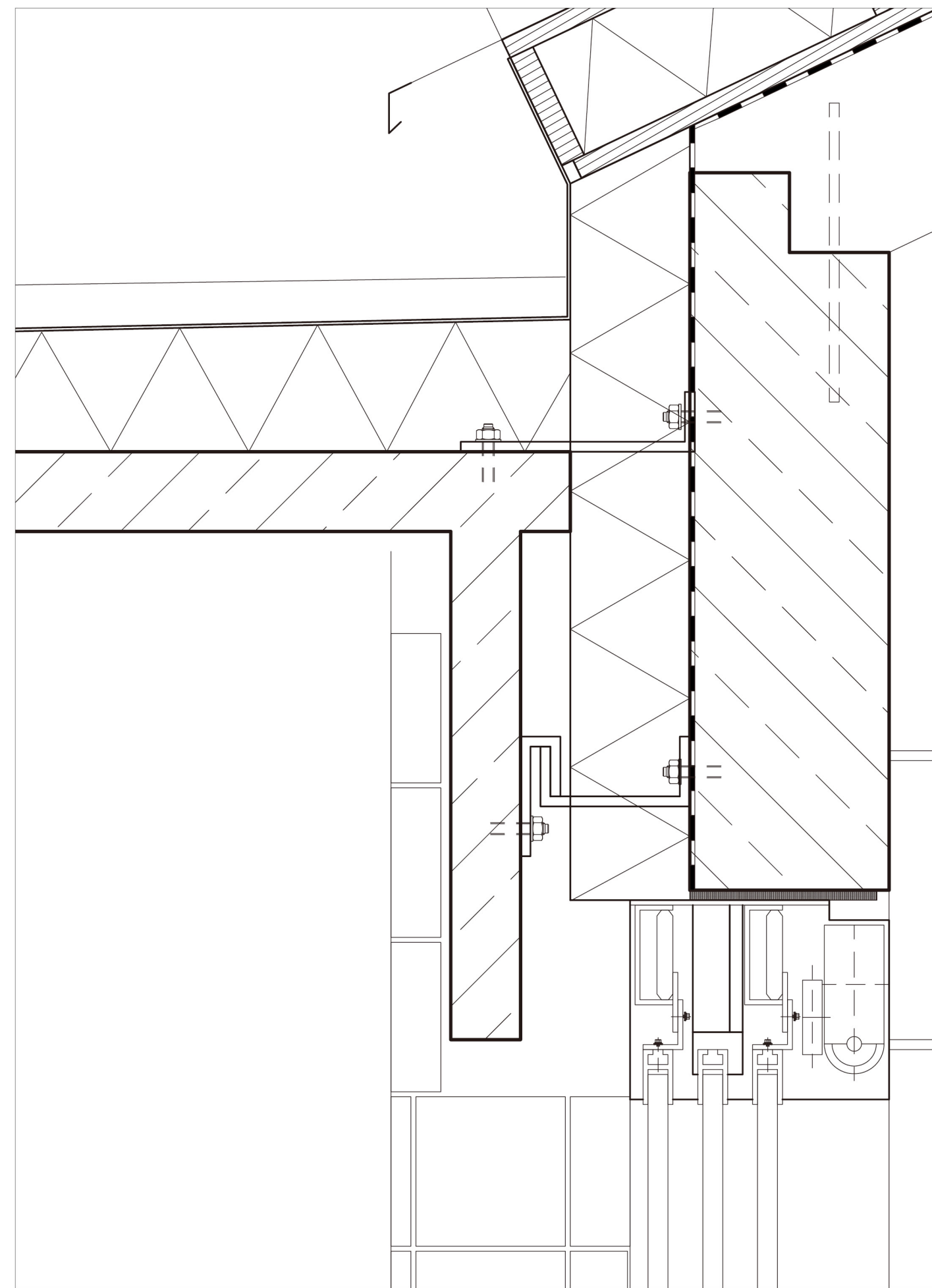
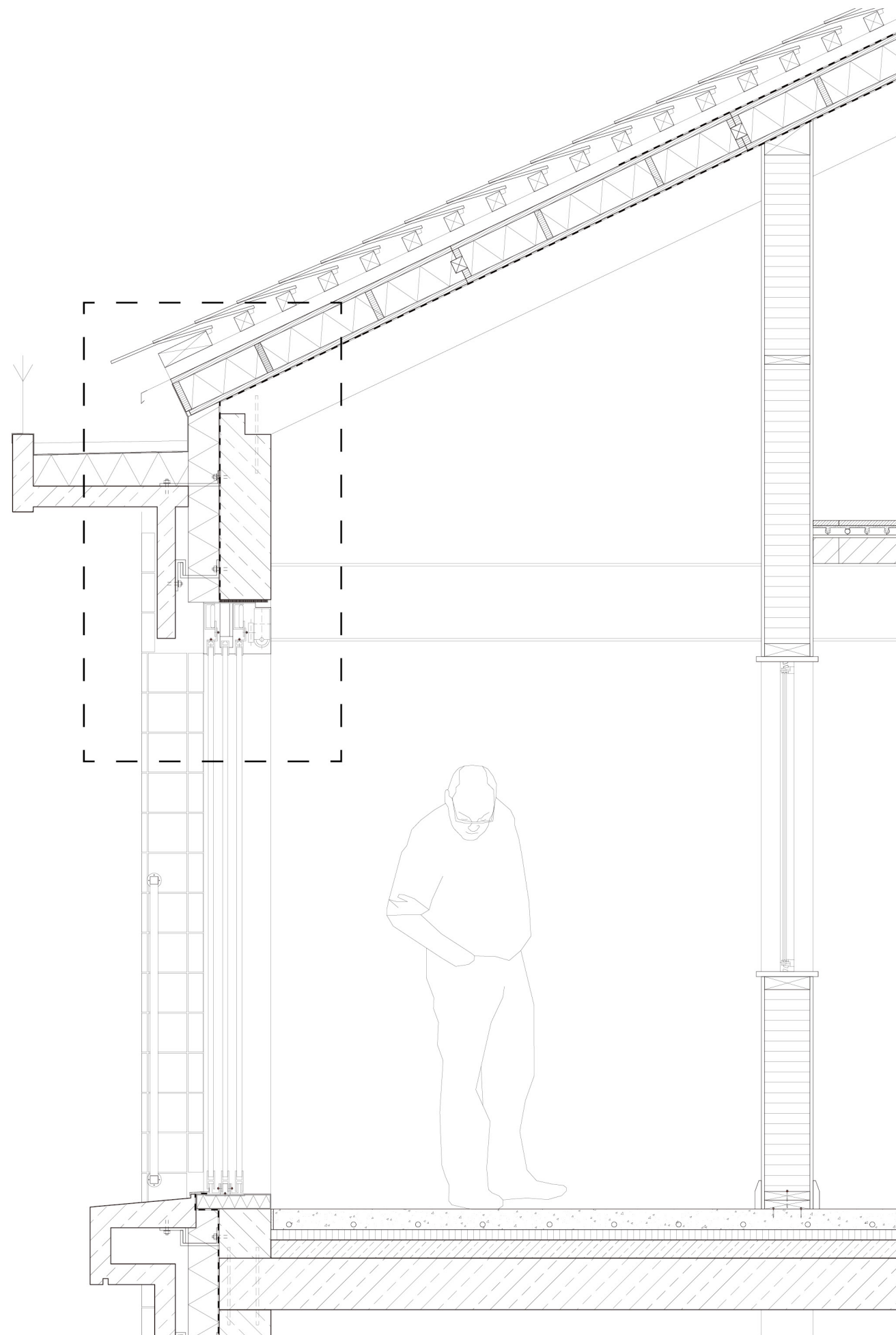


Detailing 1:20 and 1:5



**Floor Details:**  
 Concrete heating floor  
 Sound insulation layer  
 Concrete layer with reinforcing bar  
 Hollow core slab









Thanks~