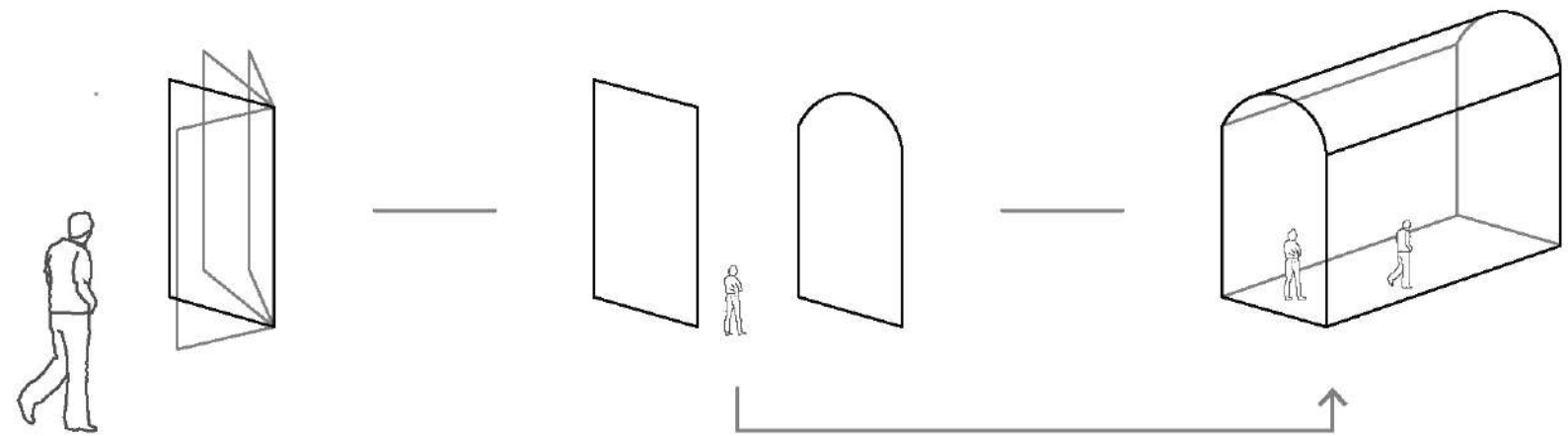


Thickness of borders - Walking routes as mediation in an urban space

Transformaton of the courtyards in Yekaterinburg, Russia.

- Threshold -

The Threshold is the spatial property of the small territories
It conveys a transitional atmosphere and dual characteristics of a space



common room door
(close and open,
separation / connection)

doors with enlarged dimensions

passage
as an extended door
(indoor and outdoor)

(The Spatial characteristics
corresponding to the sense
of scale of the objects)

(privacy)

(from privacy to public)

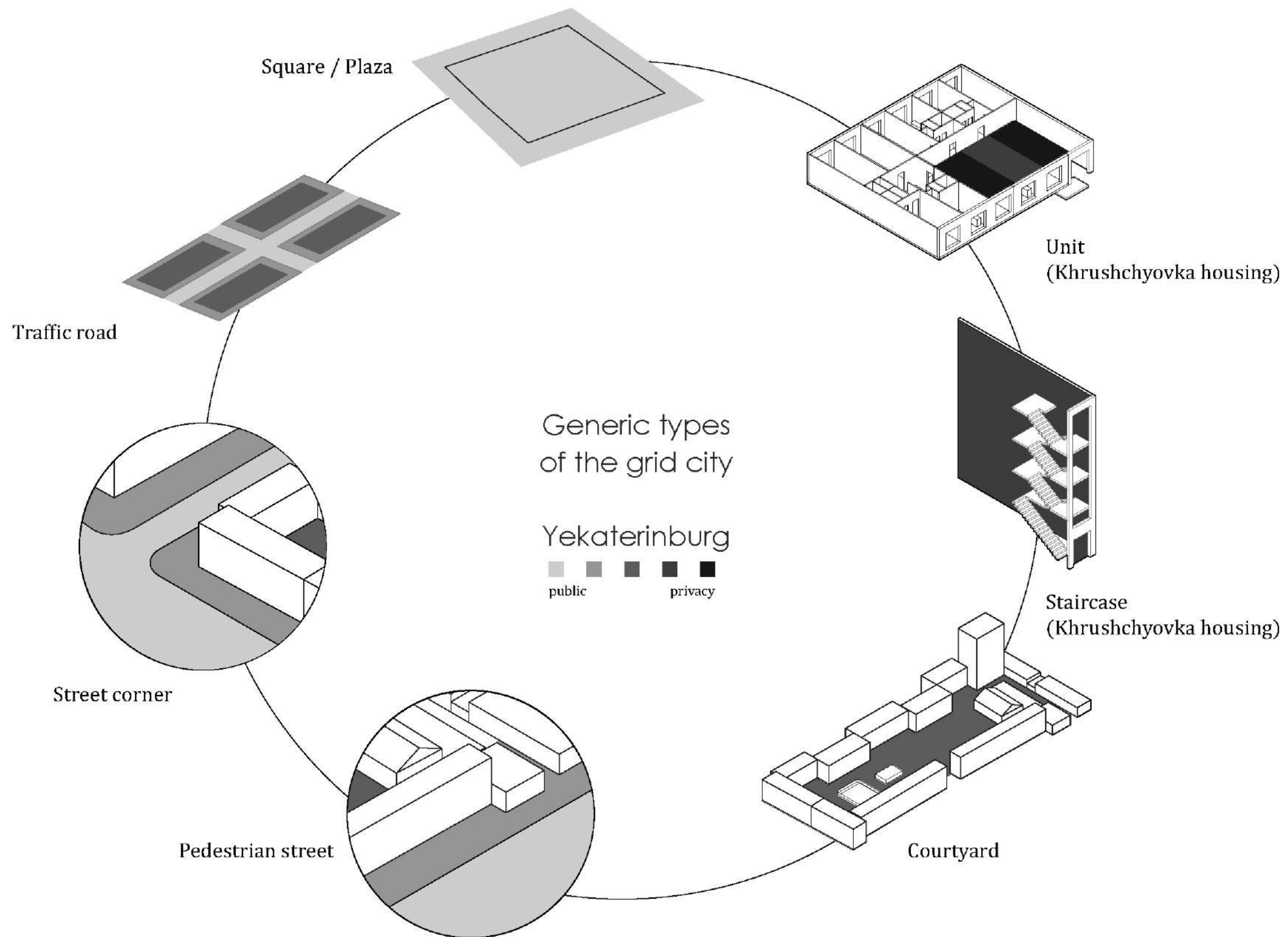
(public)

- Goal of project -

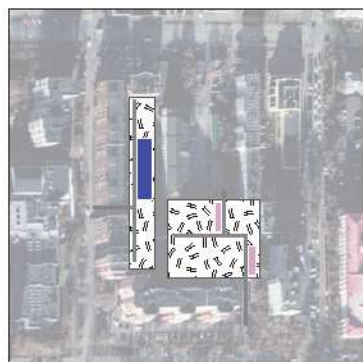
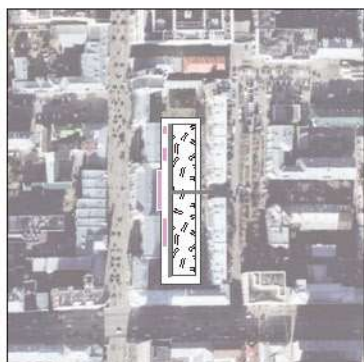
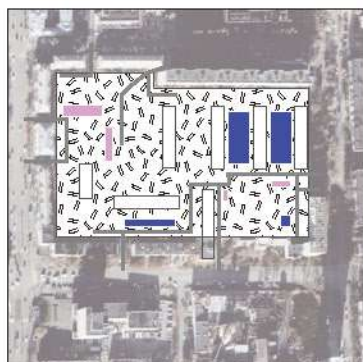
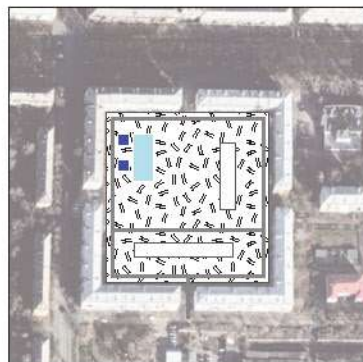
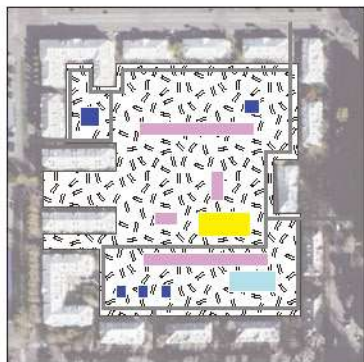
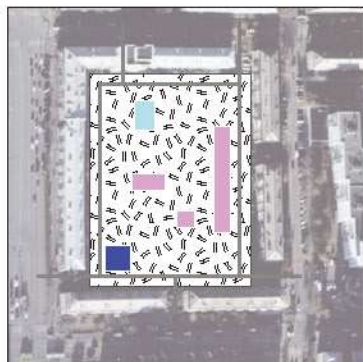
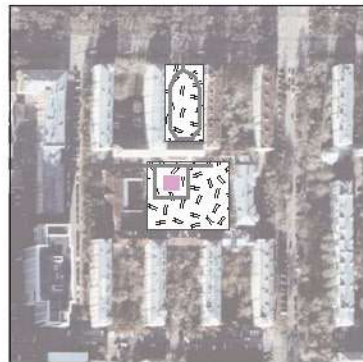
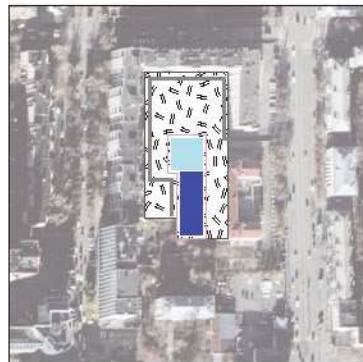
The goal of the project maintain a part of the living
habits and create new walking routes through the
small territories

City - Yekaterinburg, Russia





Generic type: COURTYARDS in the city



- parking space
- warehouse, facility, additions
- store
- playground
- sport ground
- tree, grass land

Grid City - Yekaterinburg City Center



house in the courtyard
(kindergarten, store,
religious building)

no fence

playground

sport ground

fence

playground

sport ground

roundabout

parking area

square

old house

subway station

tram stop

Grid City - Yekaterinburg City Center



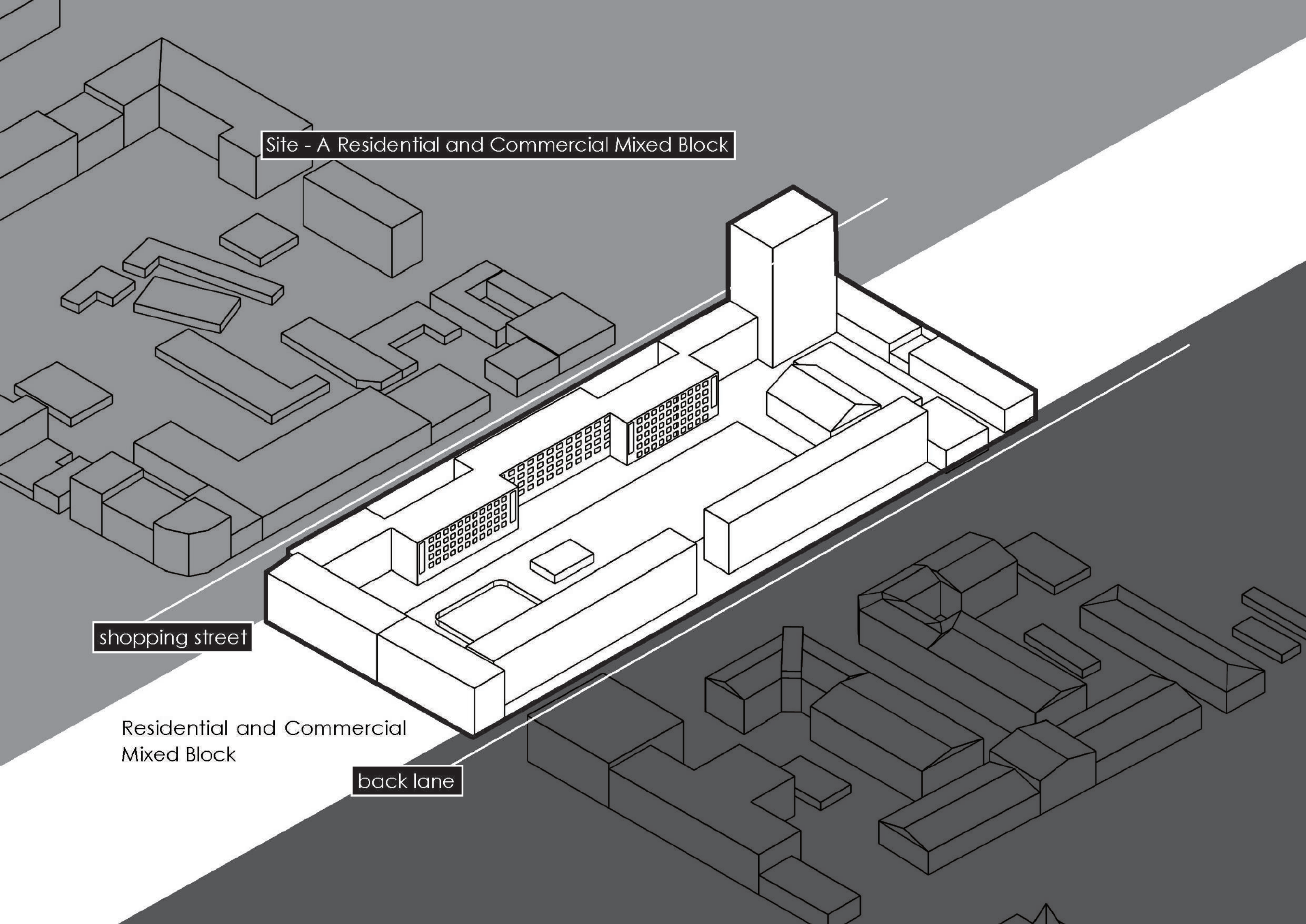
Roof Plan 1:1000

Site - A Residential and Commercial Mixed Block

shopping street

Residential and Commercial
Mixed Block

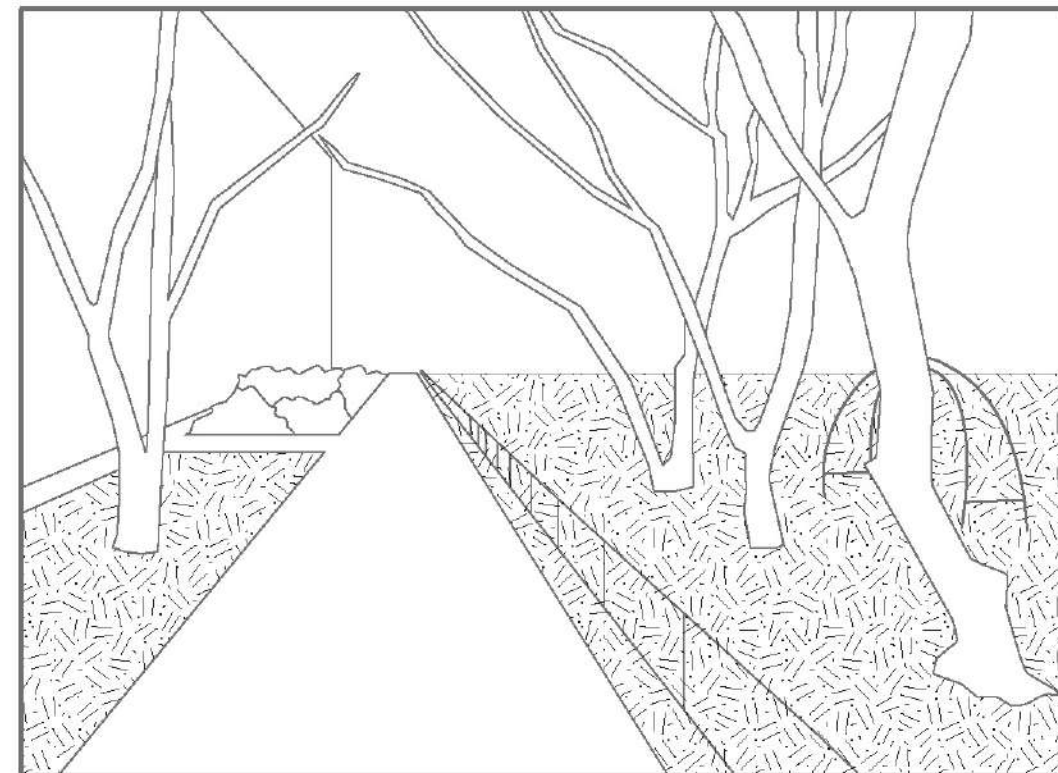
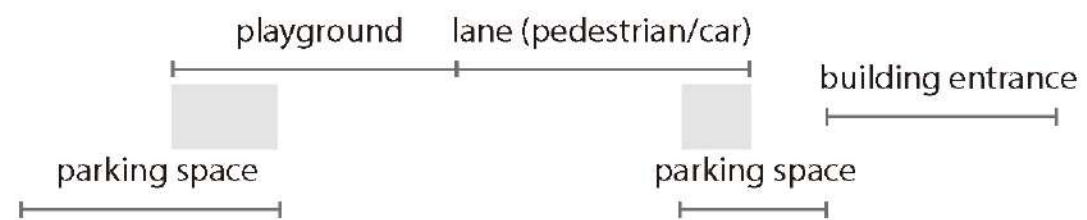
back lane



Site - Functions & Atmosphere?



Site - Problem and Issue of the courtyard



Unfriendly and Friendly layout of the courtyard

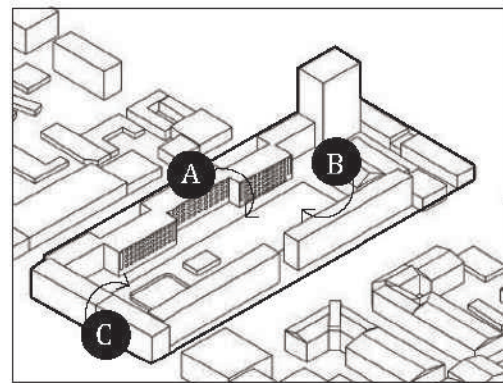
Site - Existing situation of the courtyards



Artifacts of the courtyard – They display how the yards are used and the living culture in Yekaterinburg because these artifacts are common in most of the courtyards.

Design - New / Old Functions & Dual atmosphere

Functions



Old

A - Kitchen Function

(The kitchen is the main social space in the standard housing)

B - Transformation of the existing functions

New

C - New Functions for sport

eating space

meeting space

garden

vegetable field

car parking space

bicycle parking space

storage locker

playground

running track

skating ground

Atmosphere

Dual spatial properties (characters)

e.g.

- interior / exterior
- seeing / be seen
- connection / separation



01 tree potted plant



09 tiny yard



07 tree island (traffic roundabout)



05 generator shed

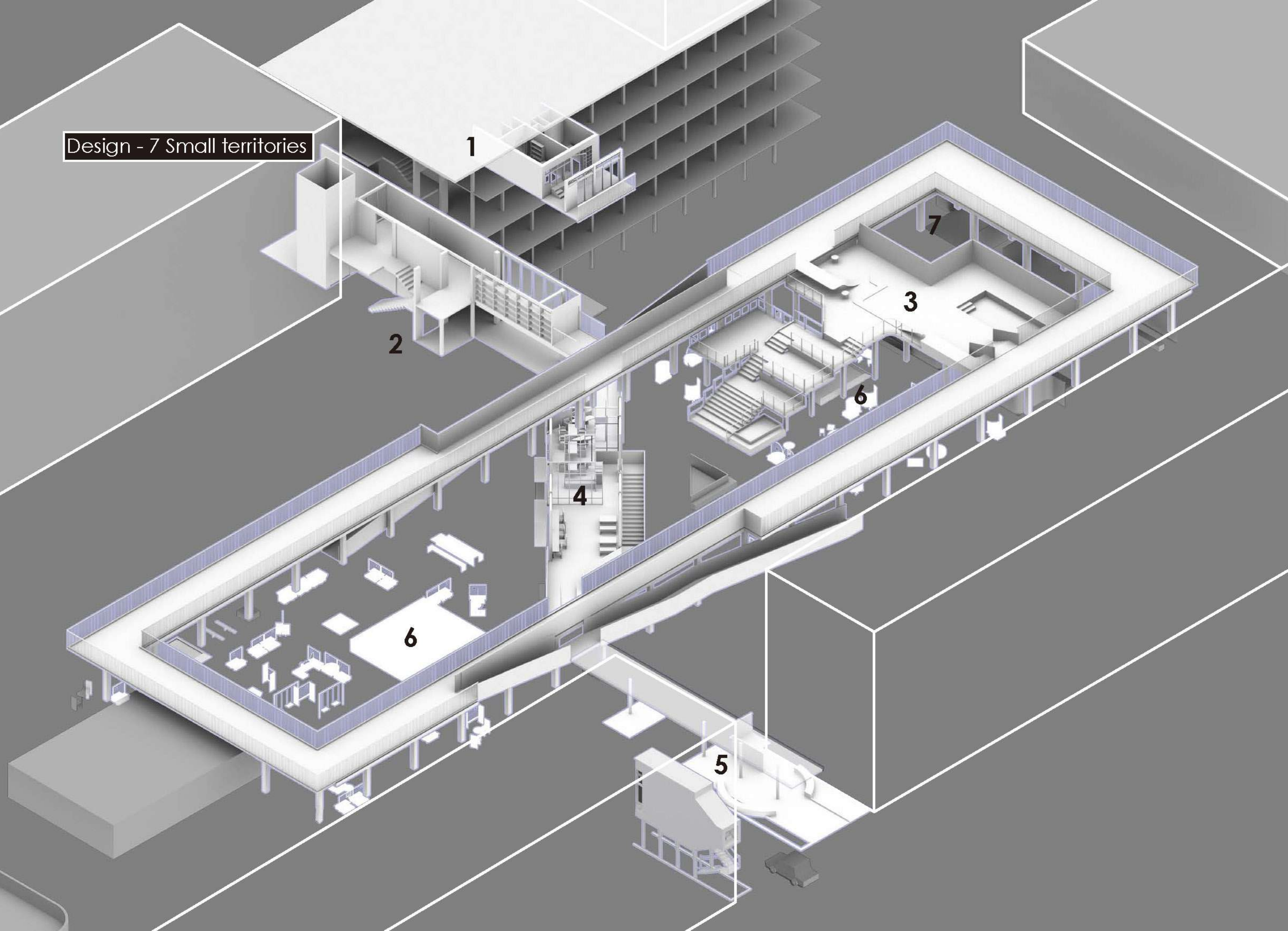


11 bench and swing



09 jungle gym

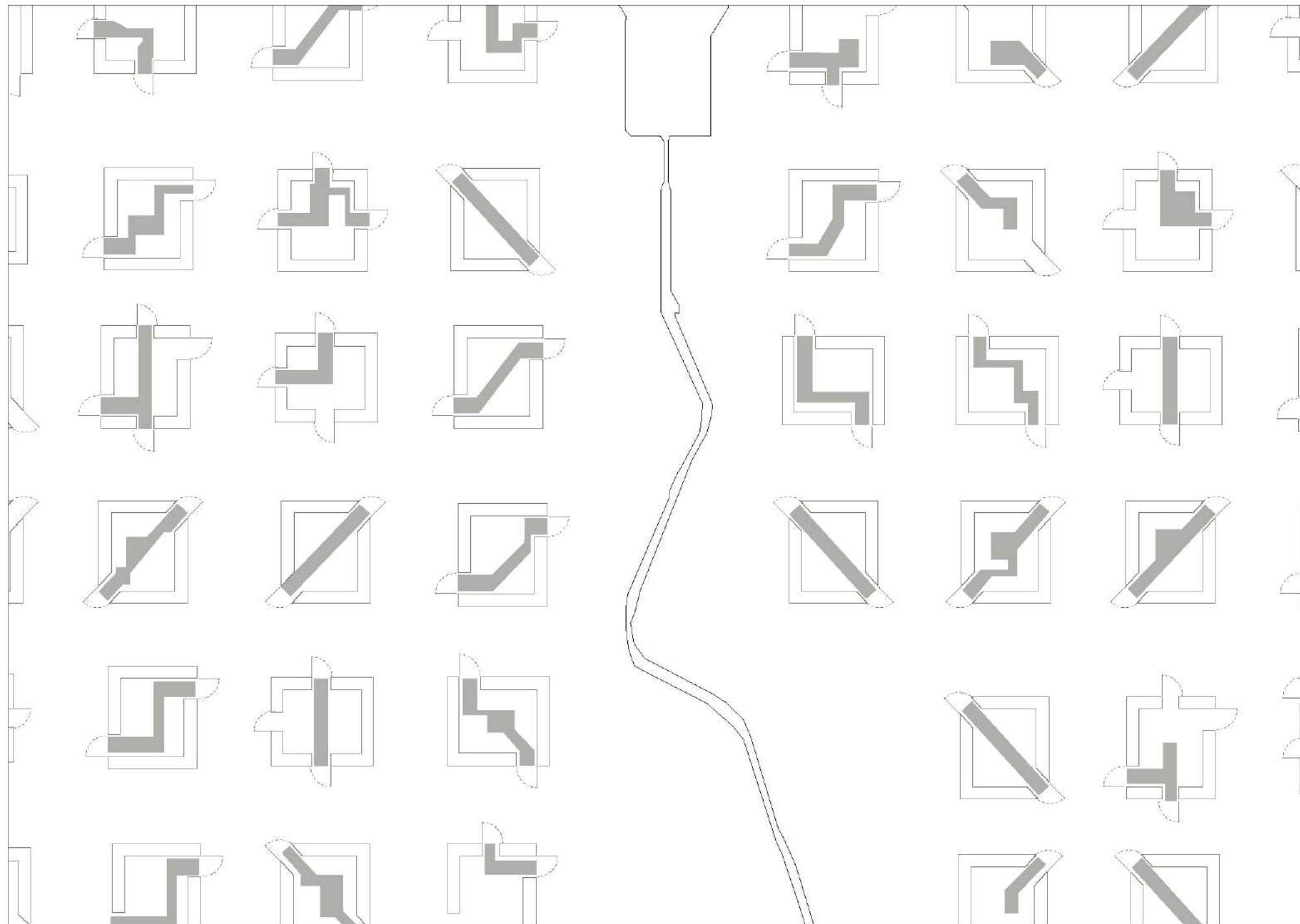
Design - 7 Small territories



What is the value of the small territories?

Why they are called small territories?

Manifesto of city

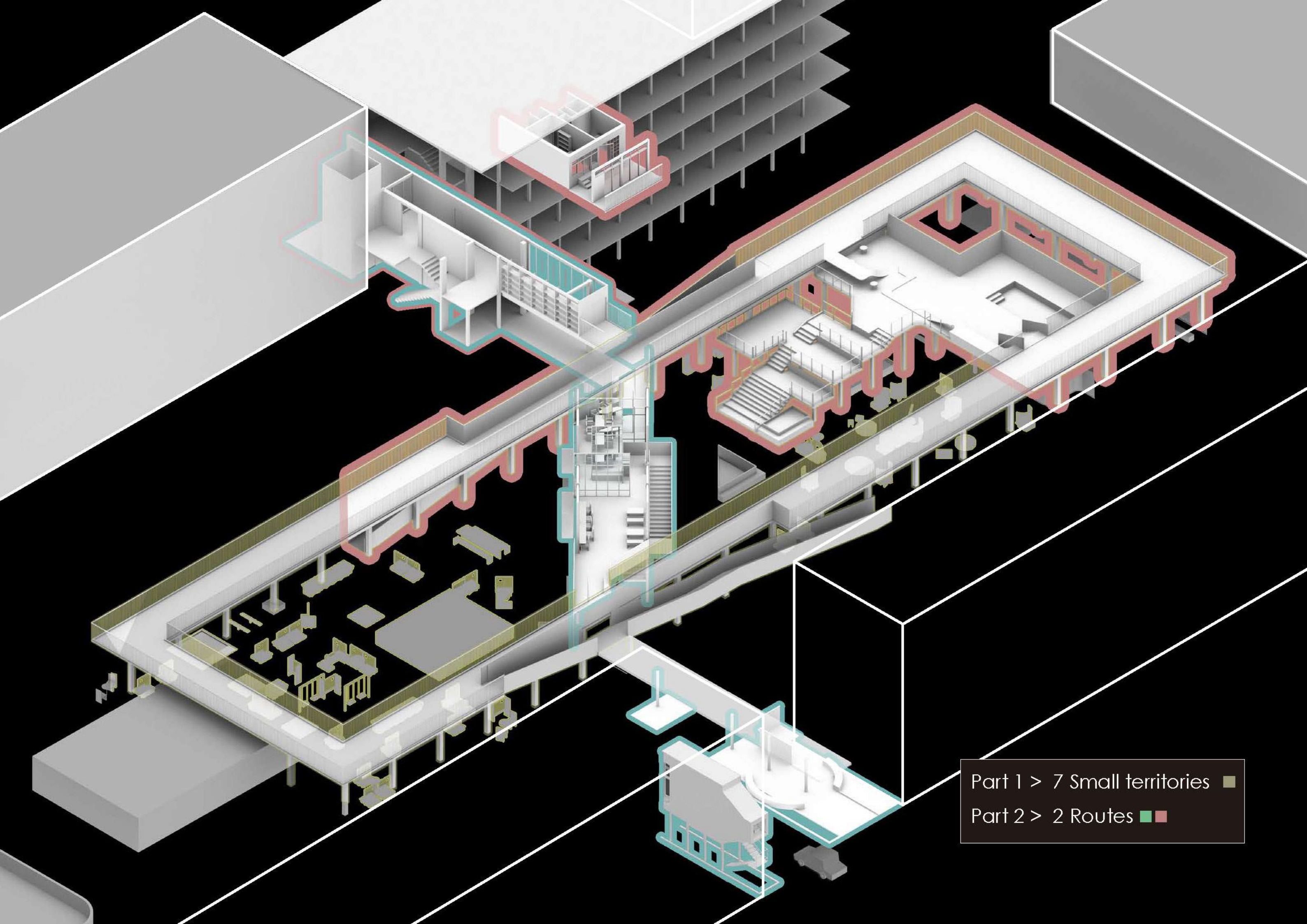


THE DOOR CITY

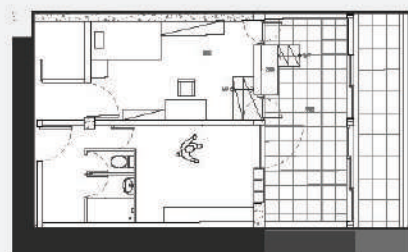
- Goal of project -

The goal of the project maintain a part of the living habits and create new walking routes through the
small territories

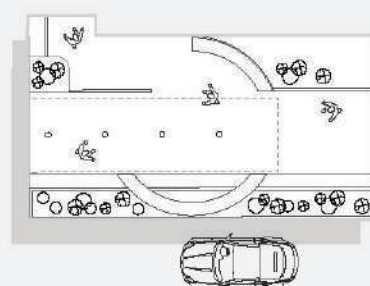
Transformation : a part of the housing and the courtyard within the street block



Part 1 > 7 Small territories ■
Part 2 > 2 Routes ■■

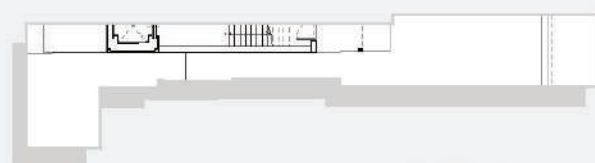
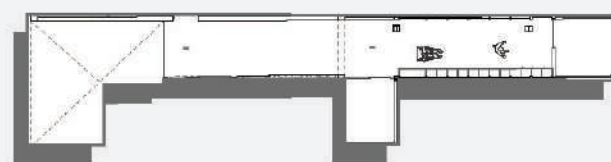
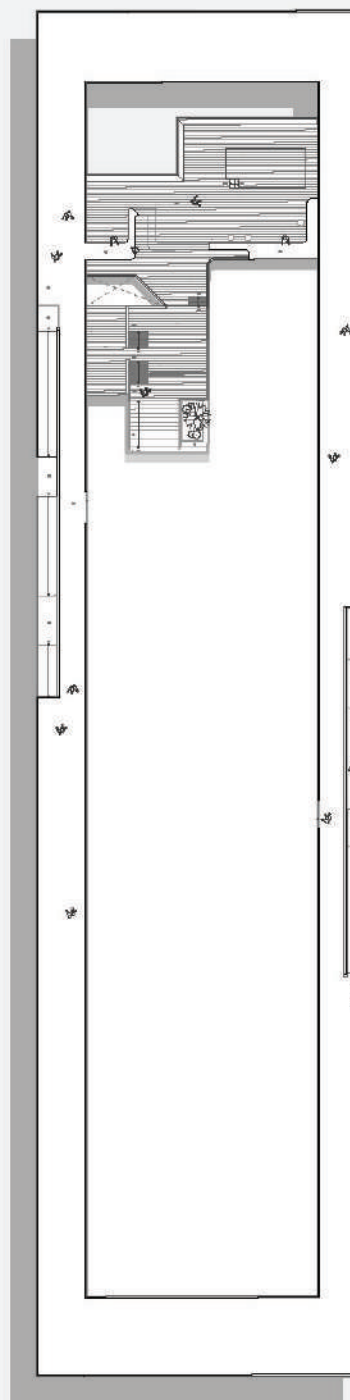


Room



Canopy Entrance

Running Track with A Staircase

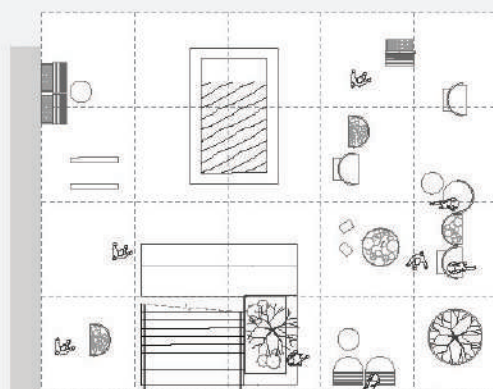


Building Entrance

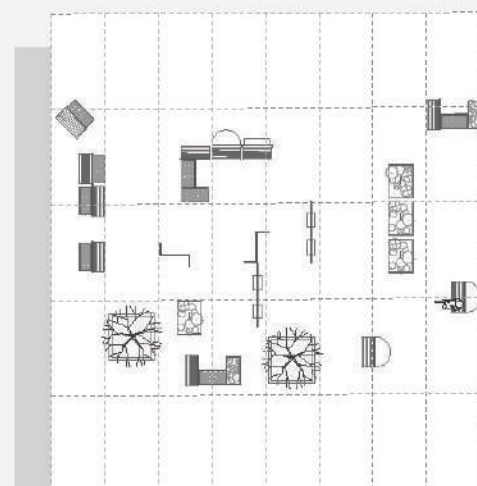
Part 1

Small Territories

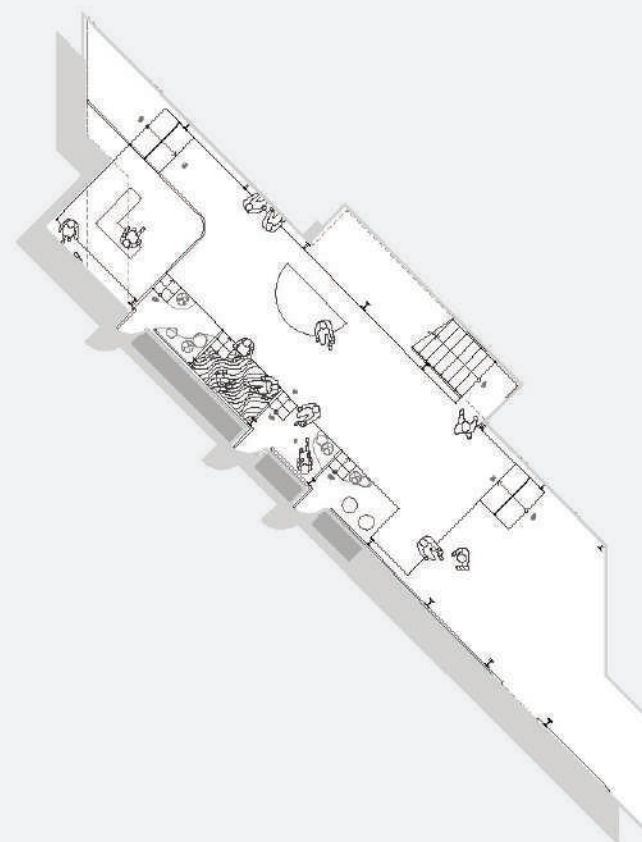
- Design Intervention in the courtyard



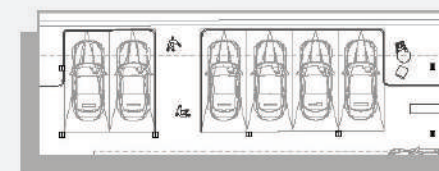
Fences Courtyard



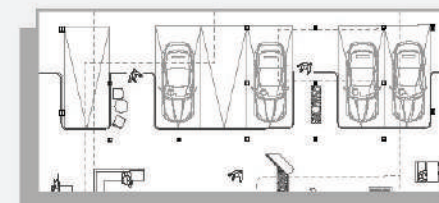
Fences Courtyard



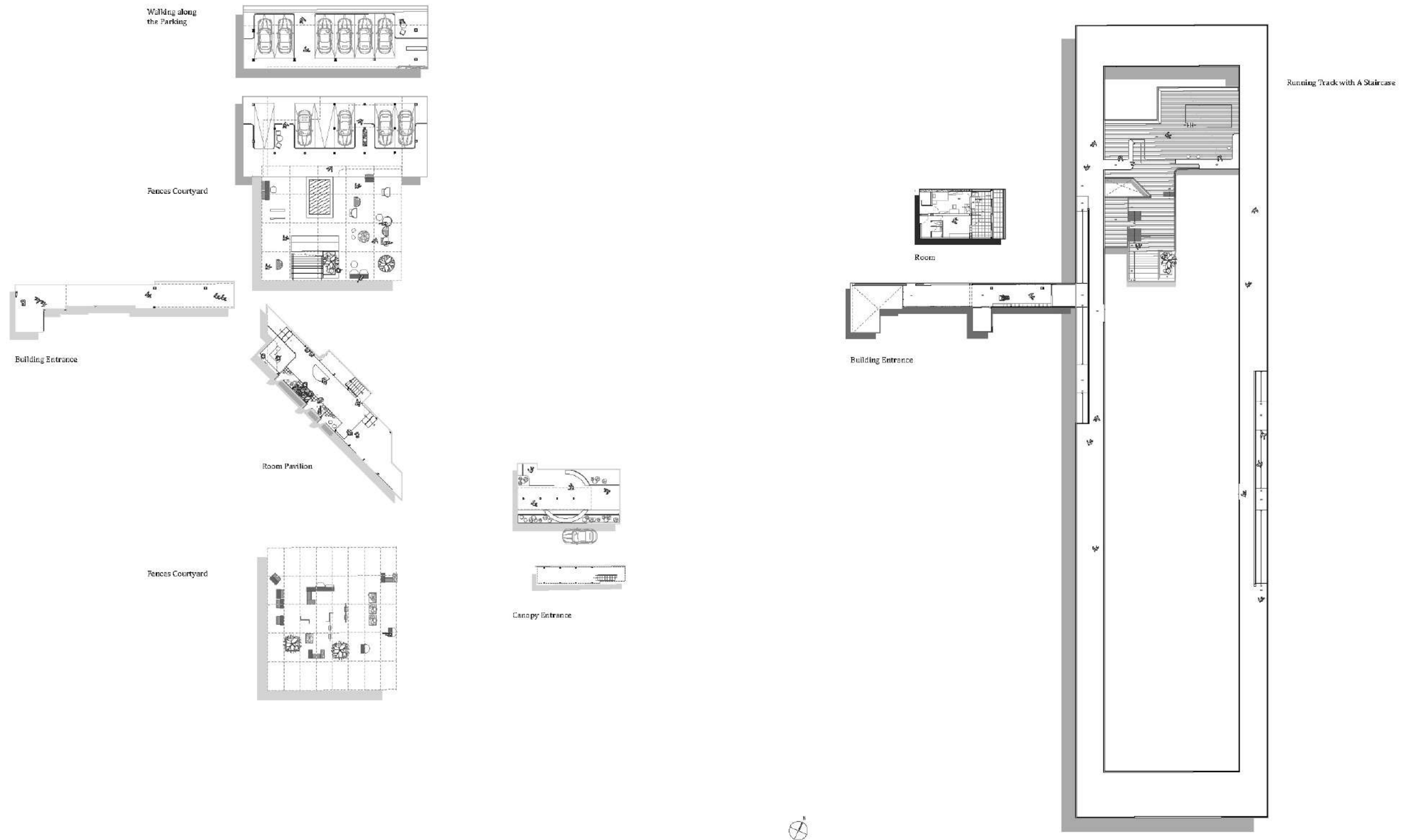
Room Pavilion



Walking along the parking ground

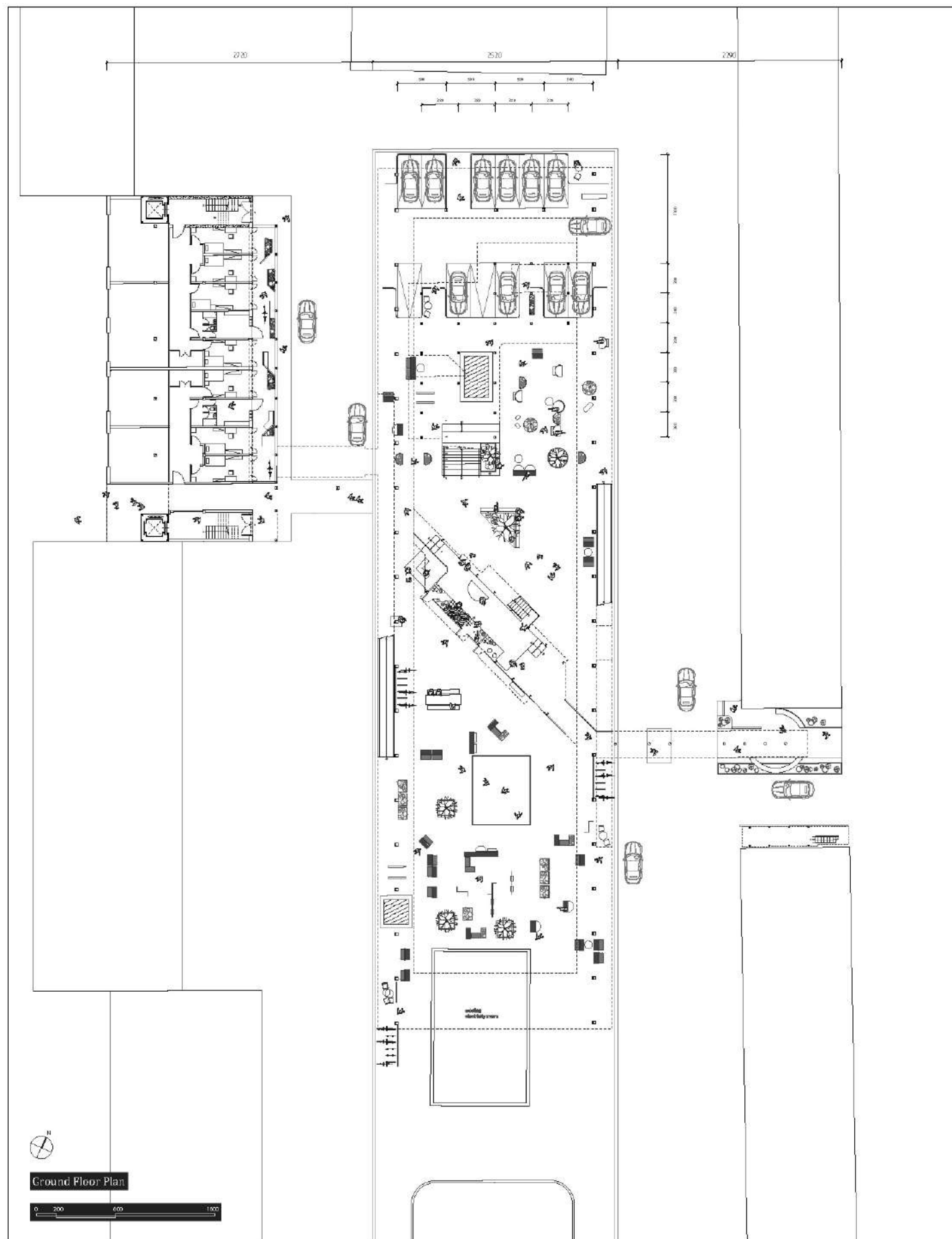


Small Territories



Overall Plans

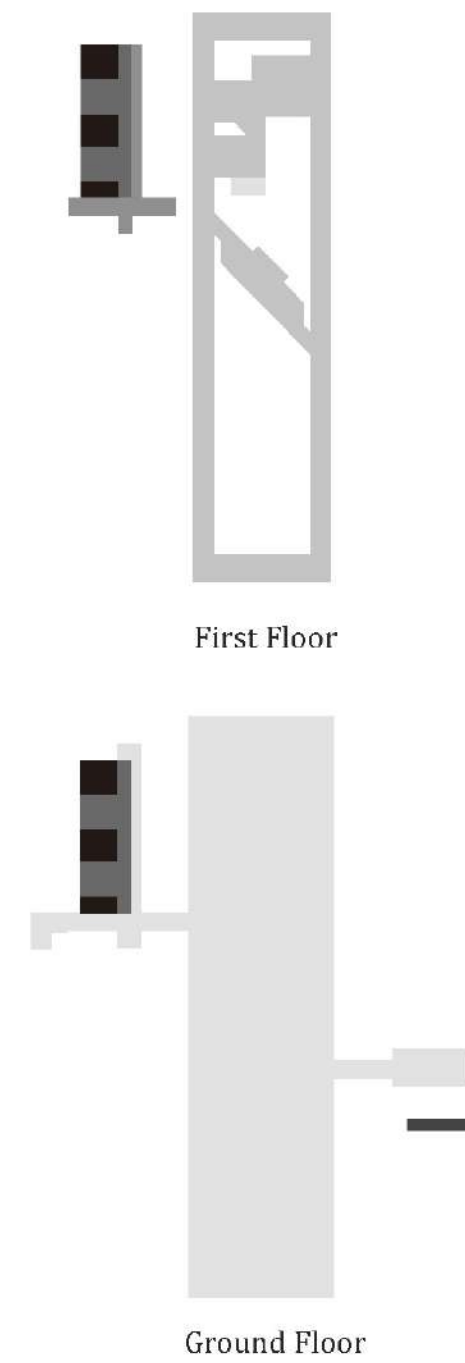
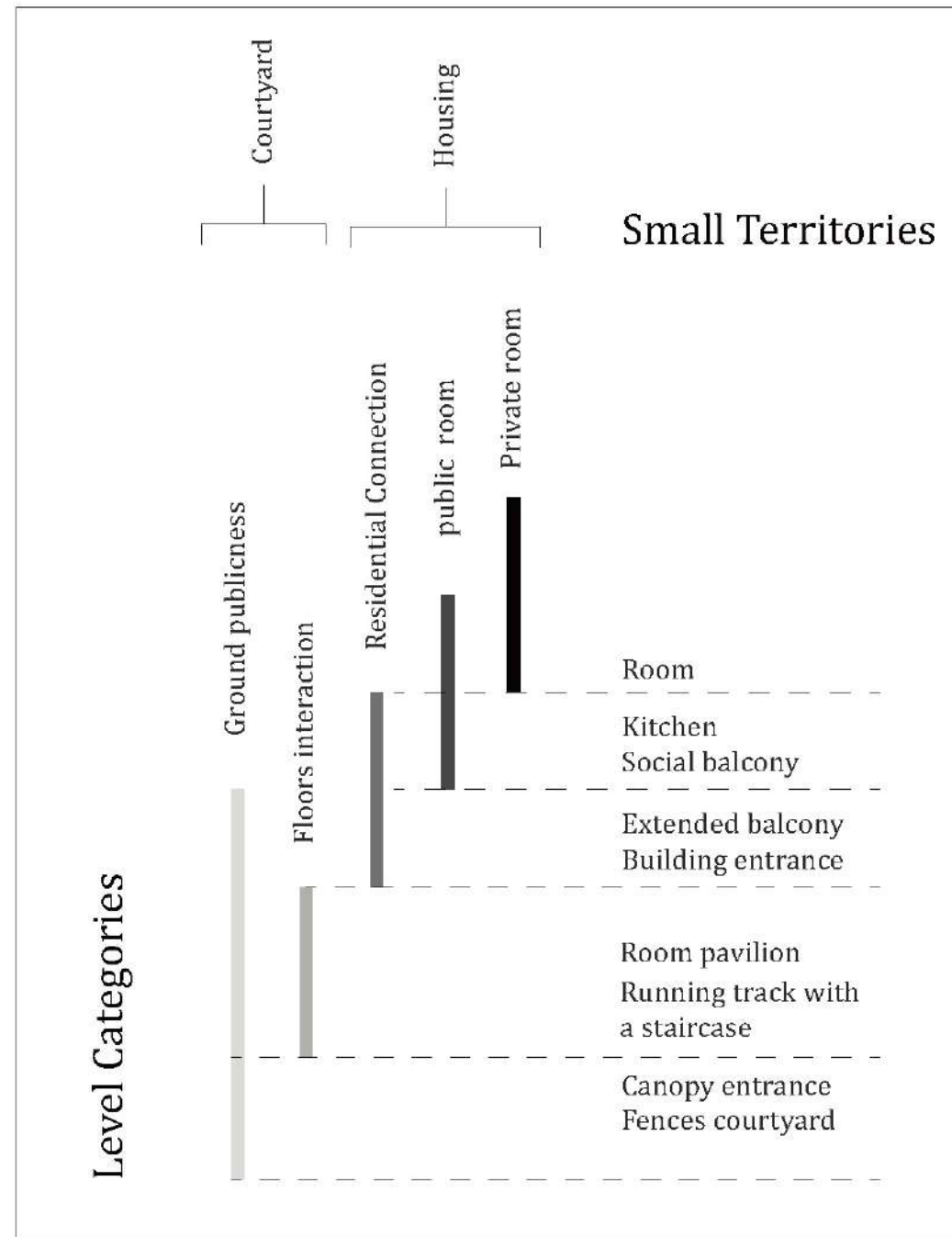
Each of the territories is distributed at the different locations of the street block.
(in the housing, the courtyard, the edge of the block)



Overall Plans

Each of the territories is distributed at the different locations of the street block.
(in the housing, the courtyard, the edge of the block)

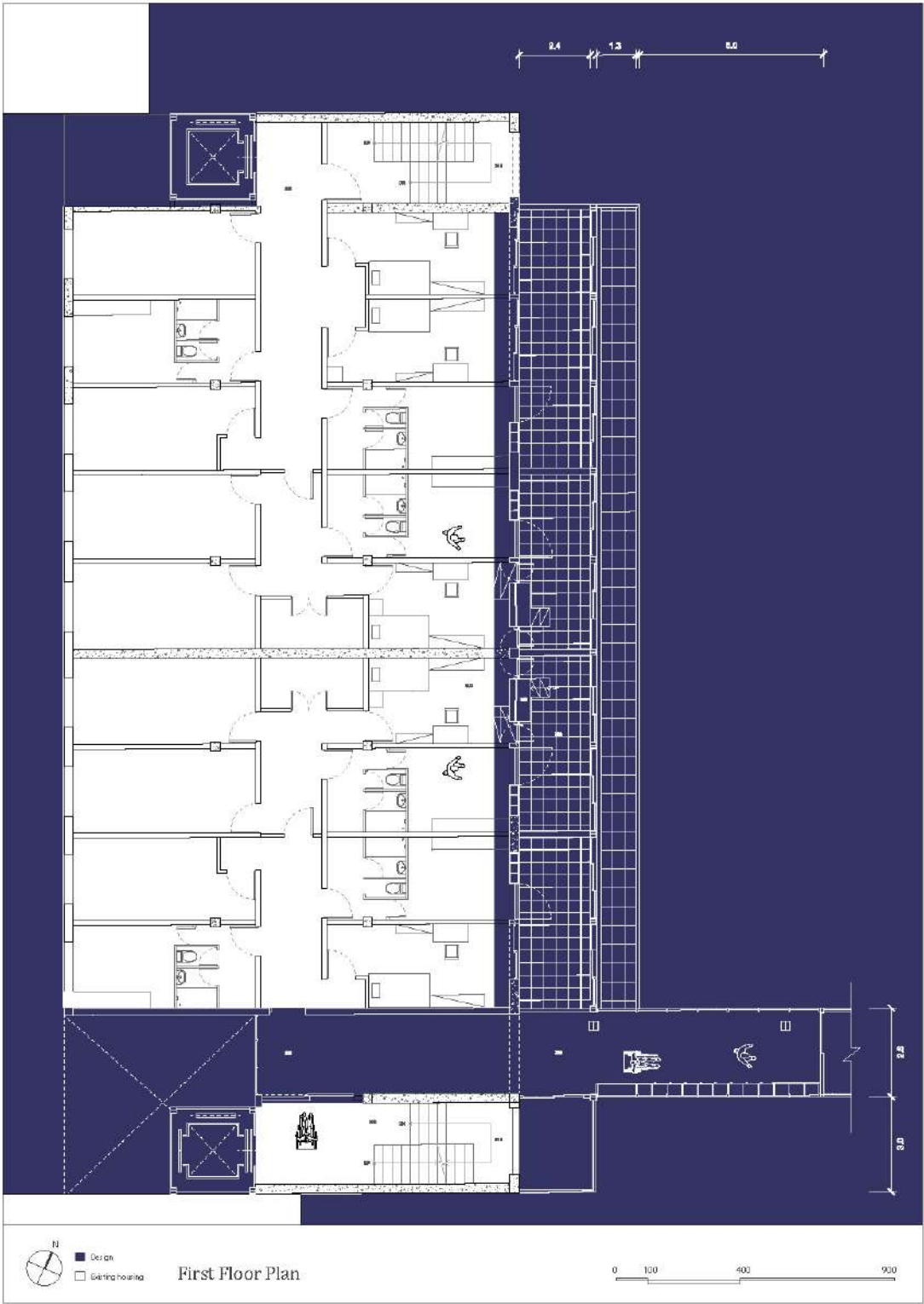
Levels of openness



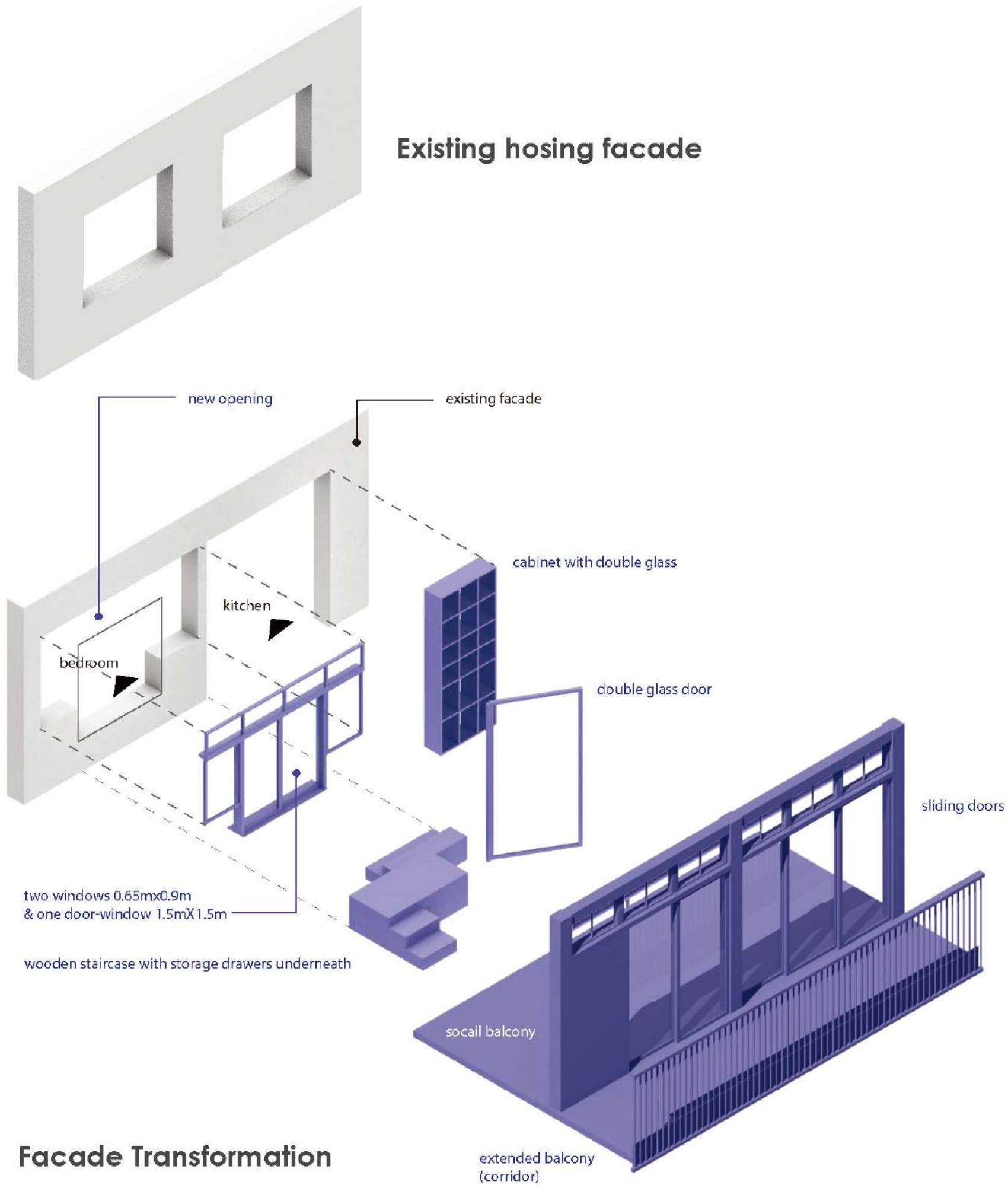
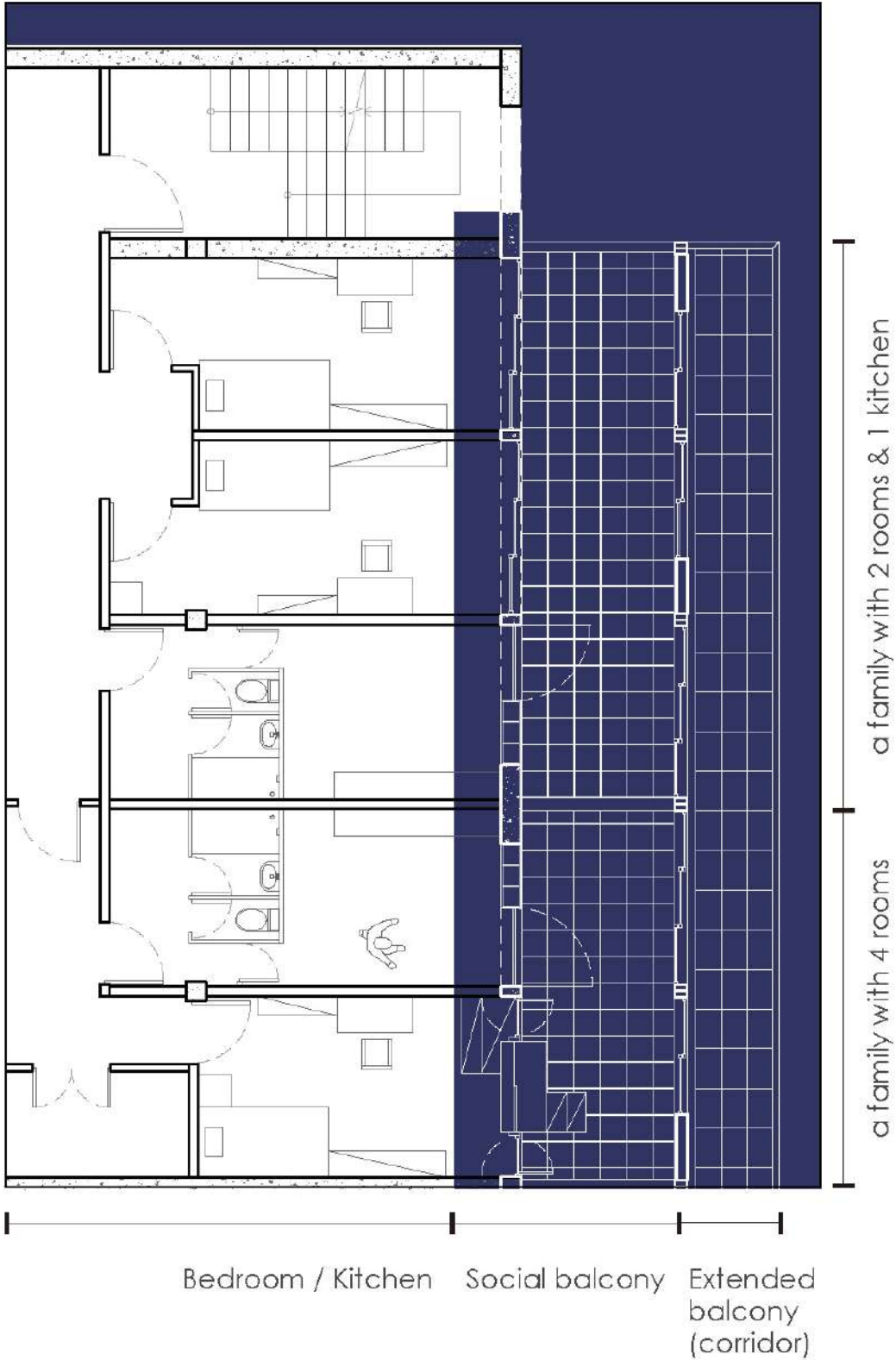
Small territory 01 -
Room



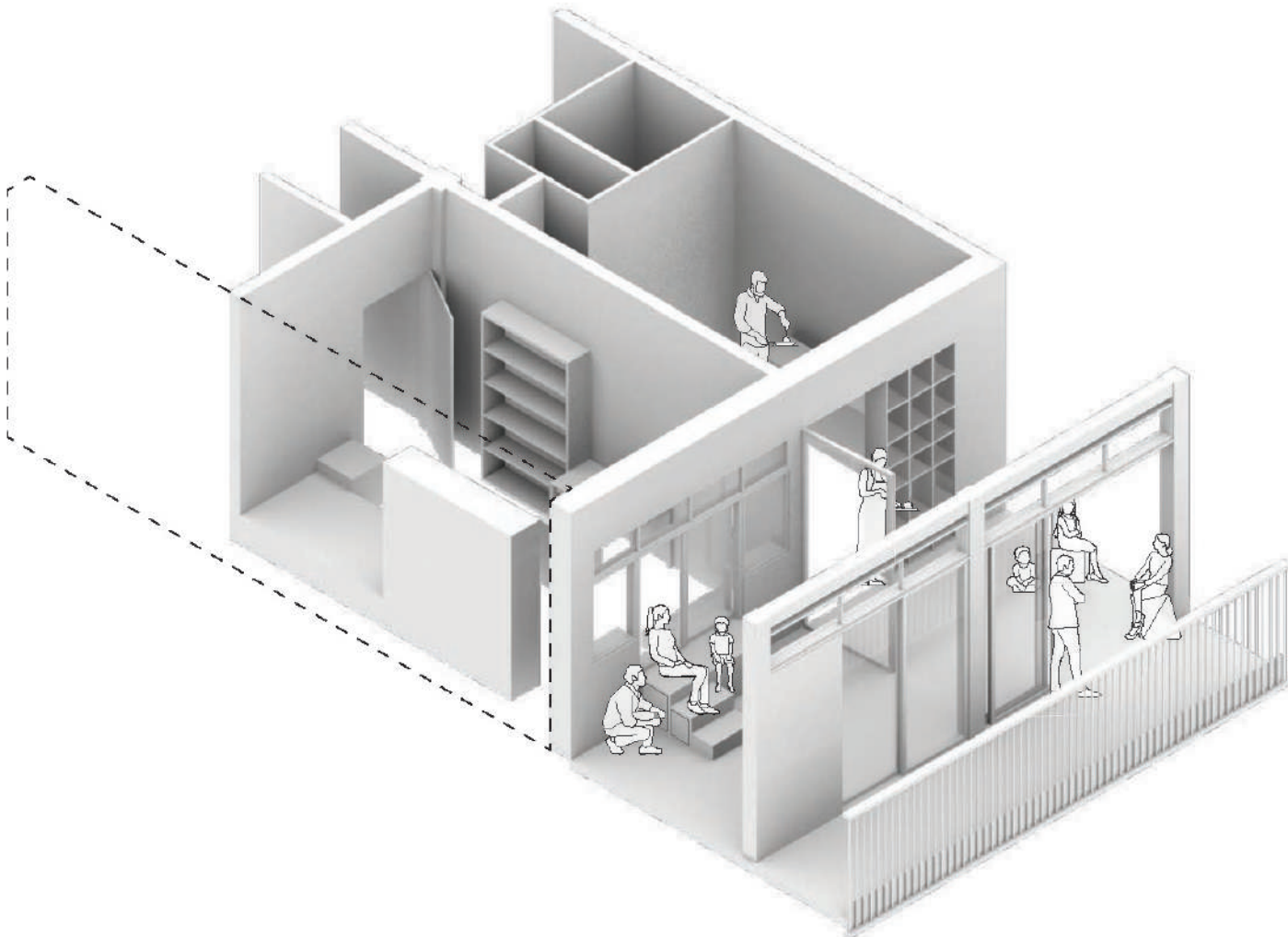
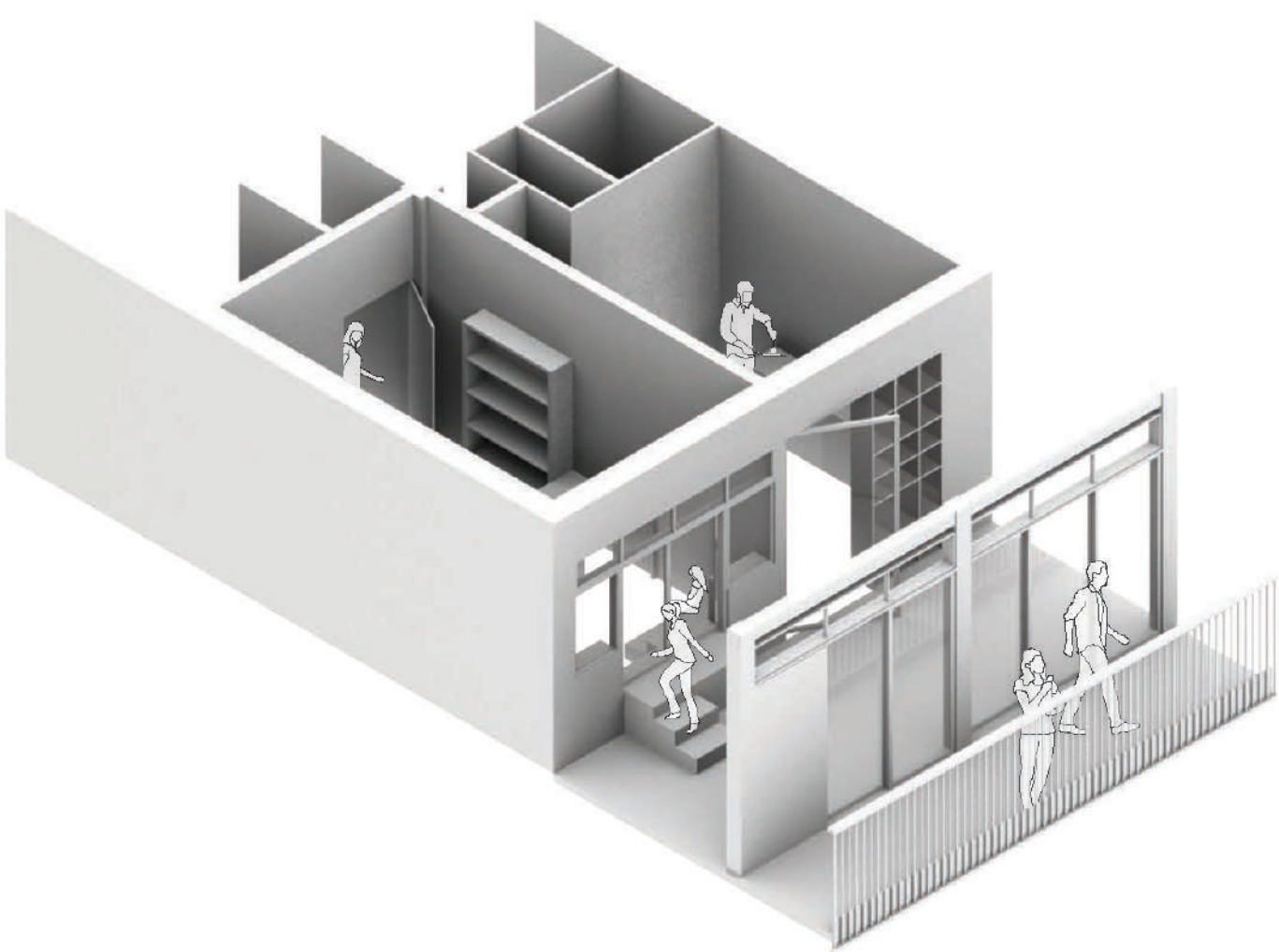
Small territory 01 -
Room



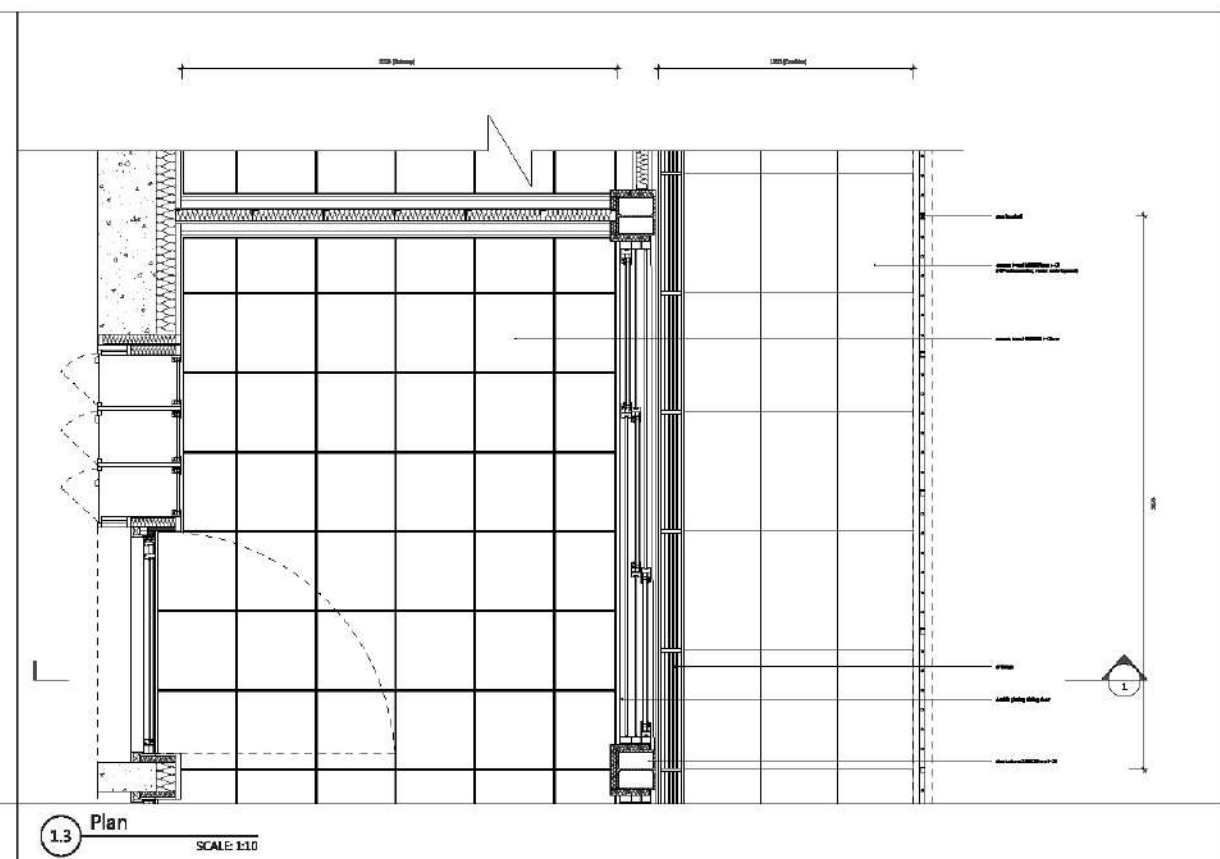
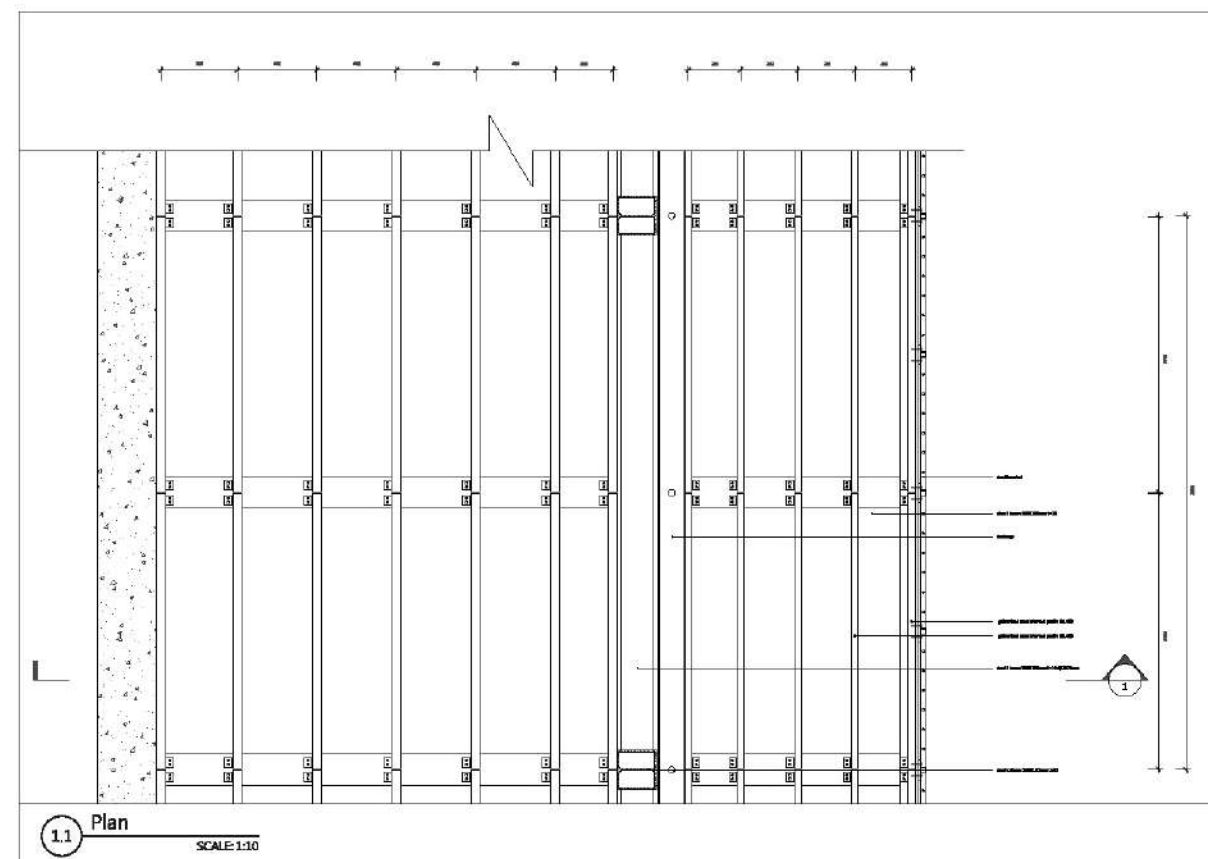
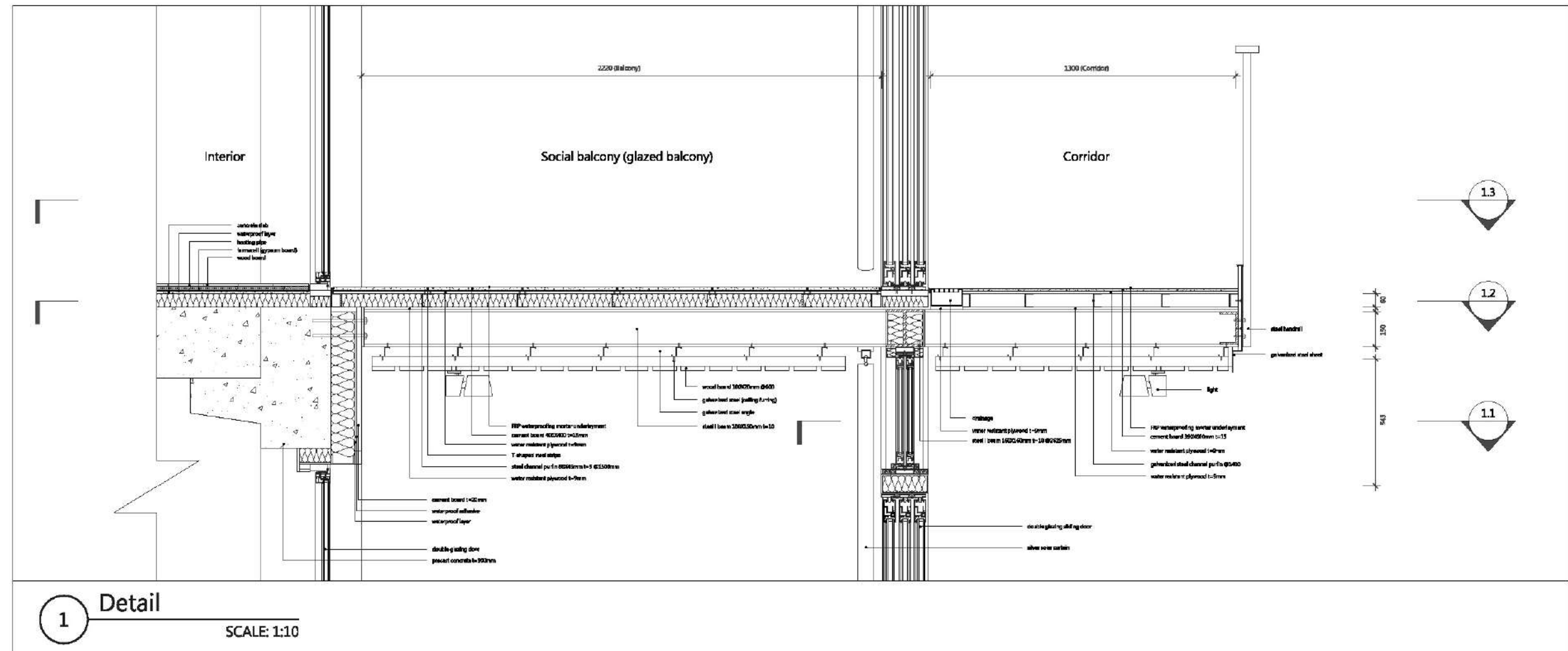
Small territory 01 -
Room

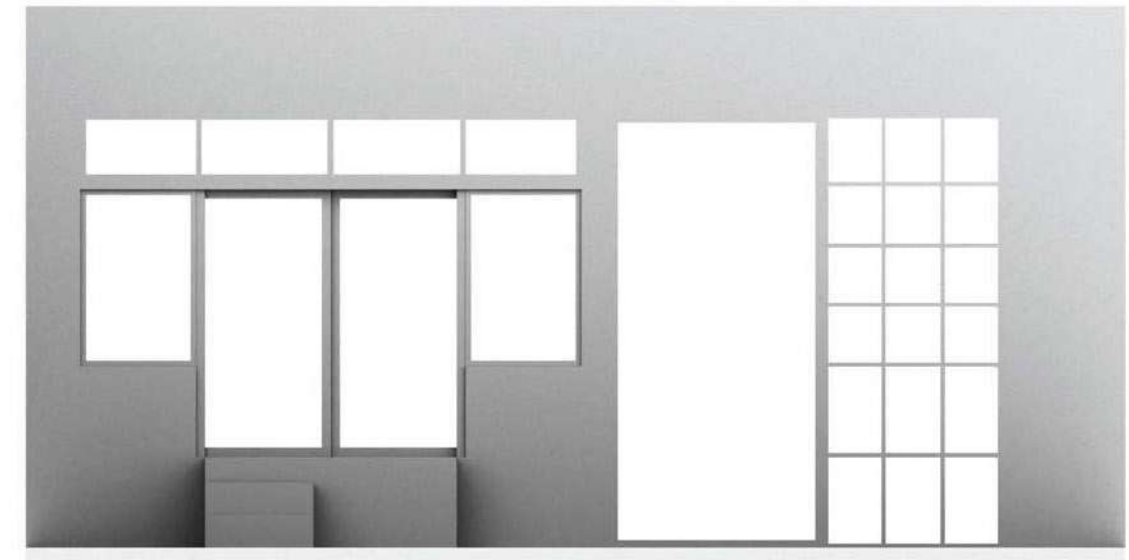
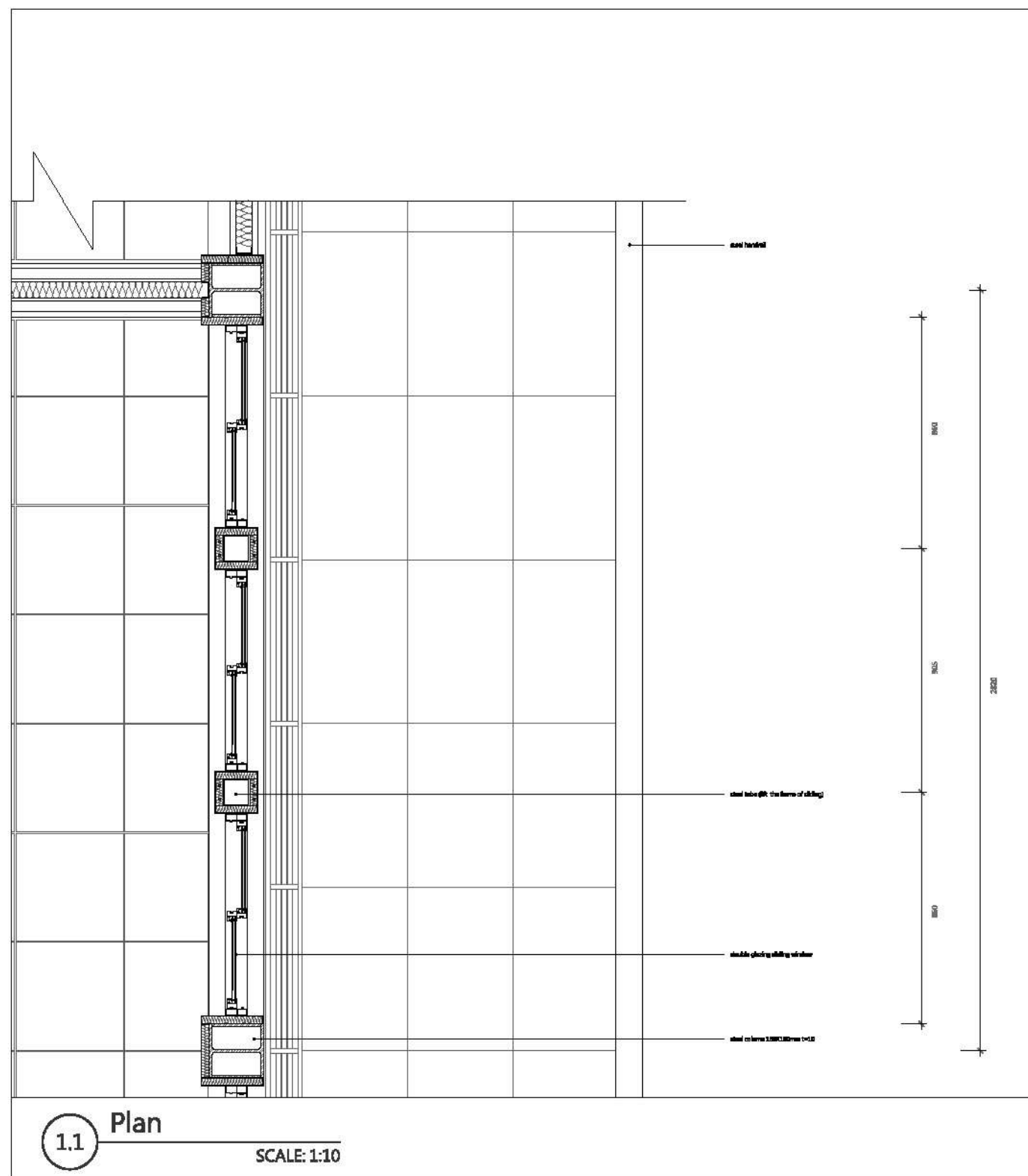


Small territory 01 -
Room

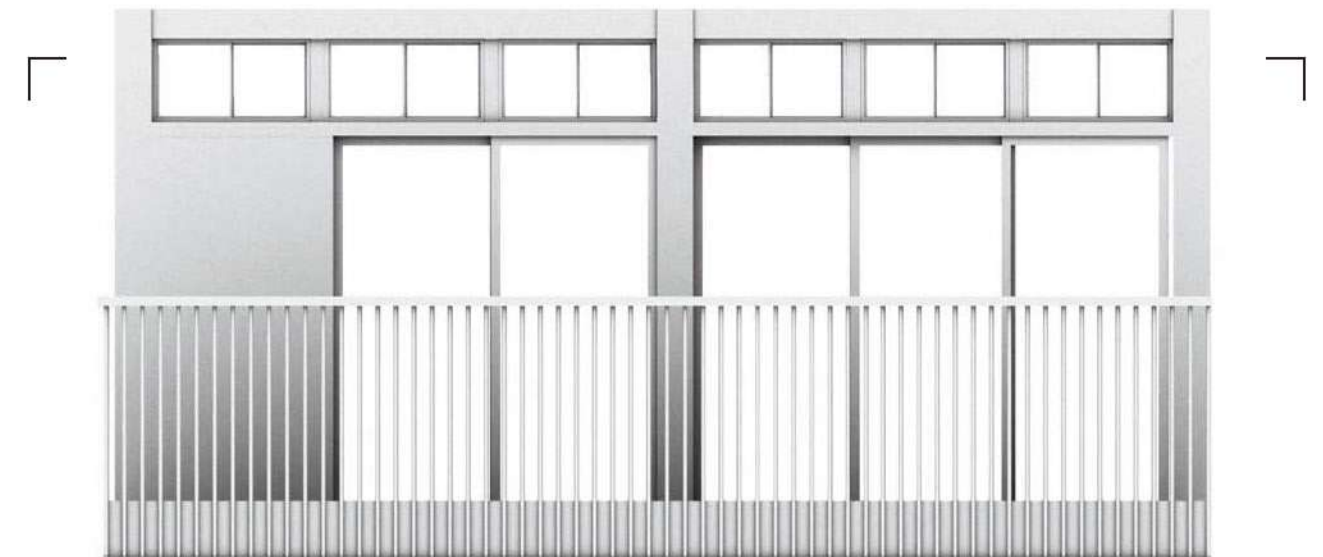


Multiple Functions / Flexible Usages

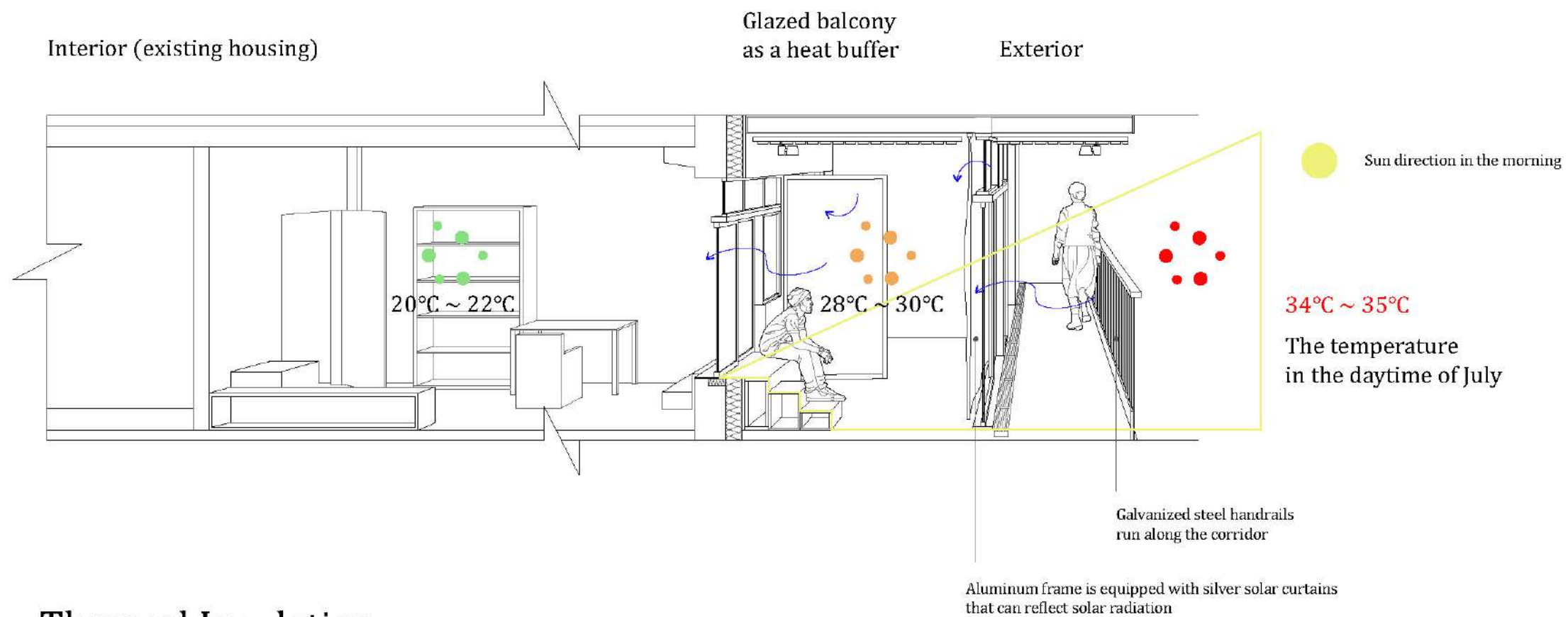




Elevation between balcony and interior

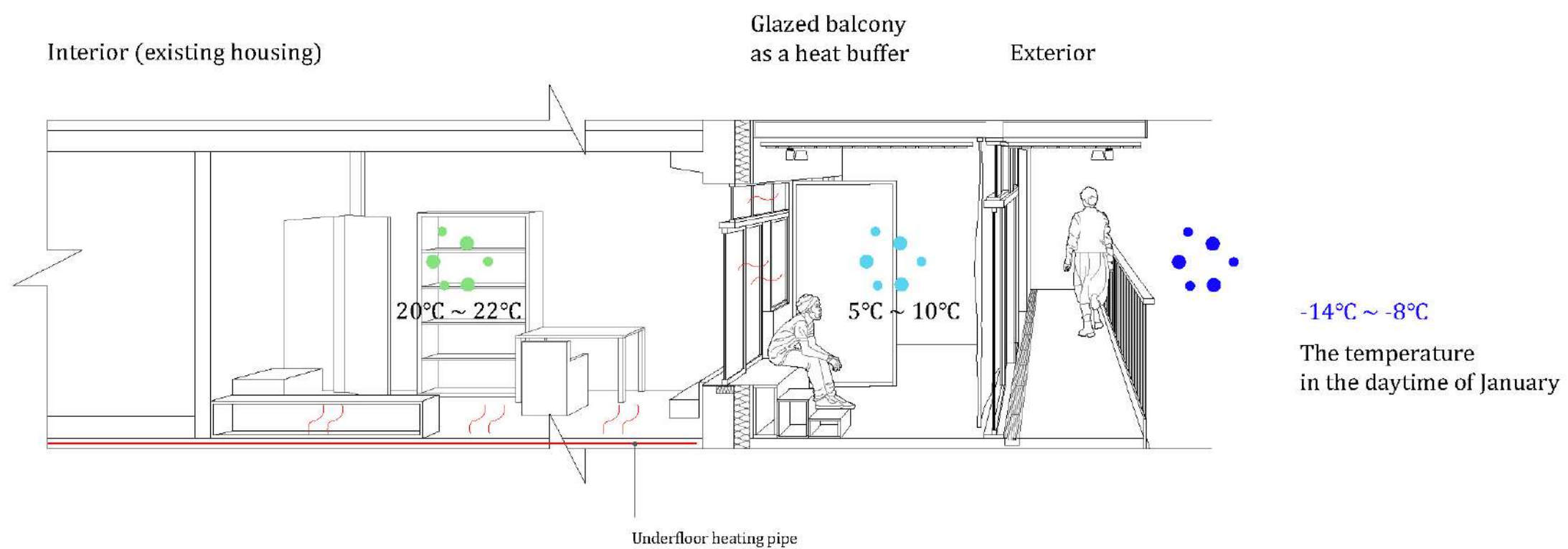


Elevation



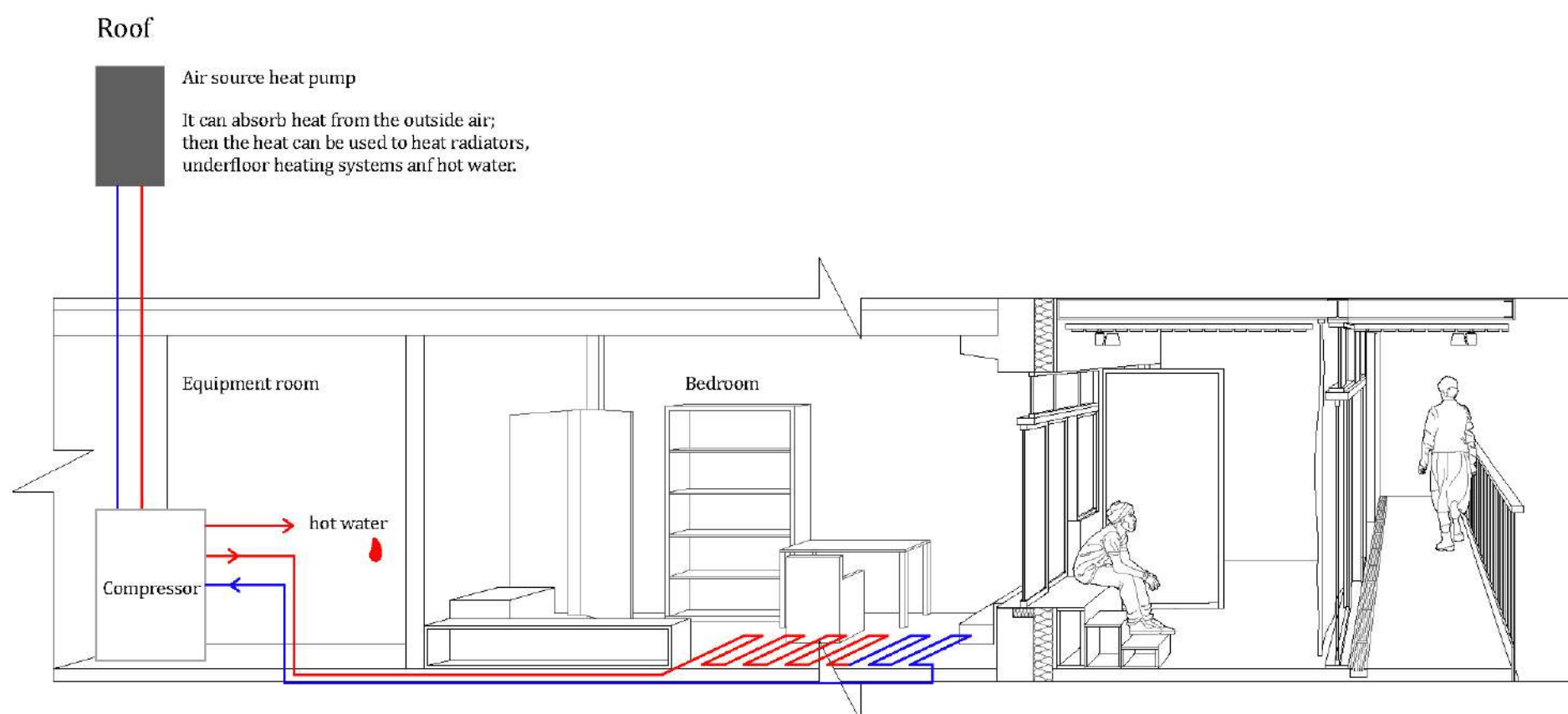
Thermal Insulation

SUMMER



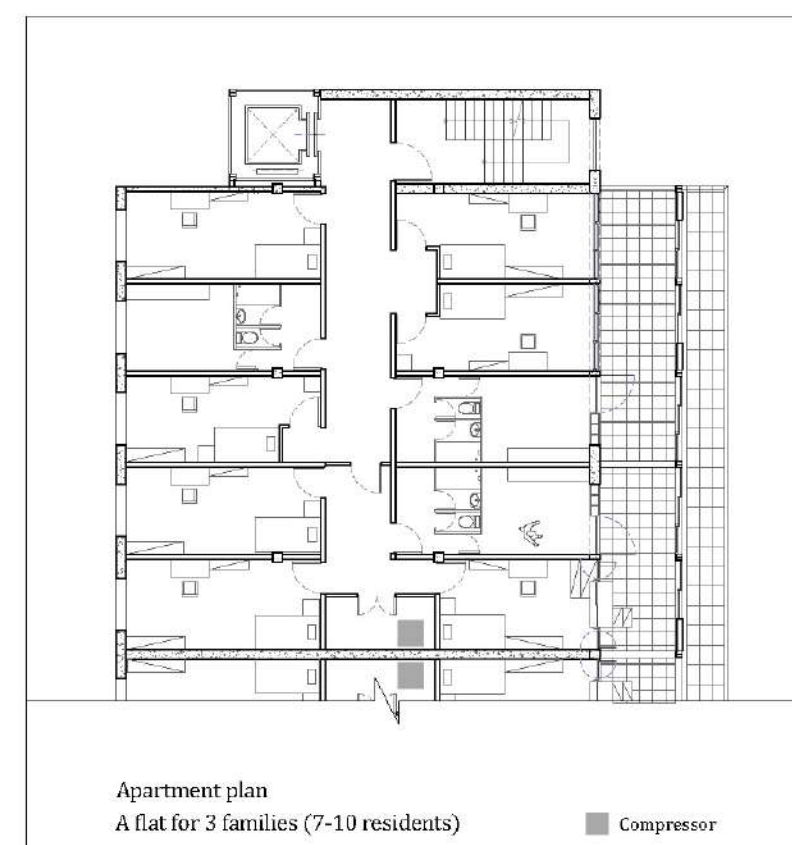
Thermal Insulation

WINTER



Energy strategy

Air to water heating system

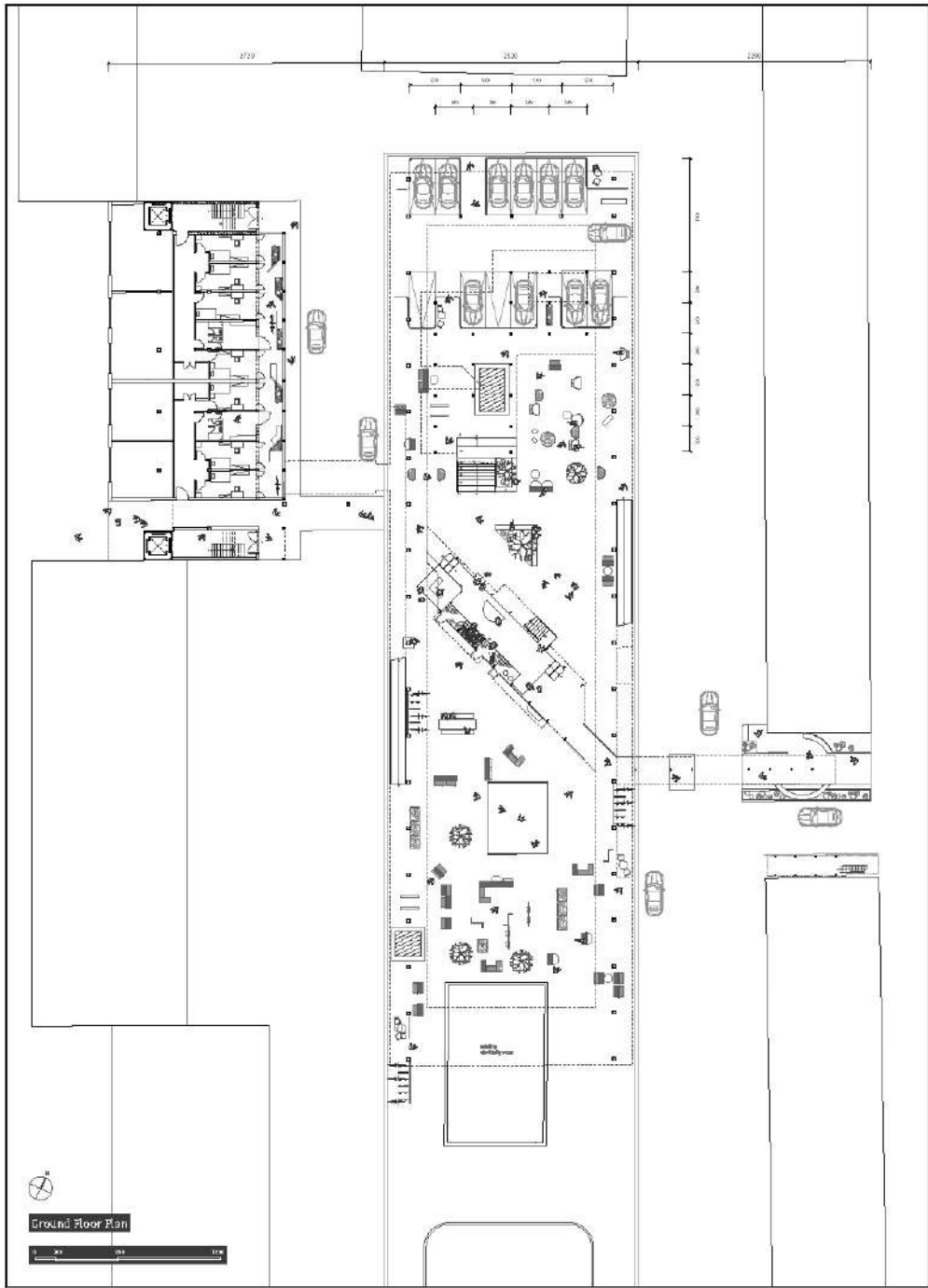




Small territory 02 -
Building Entrance

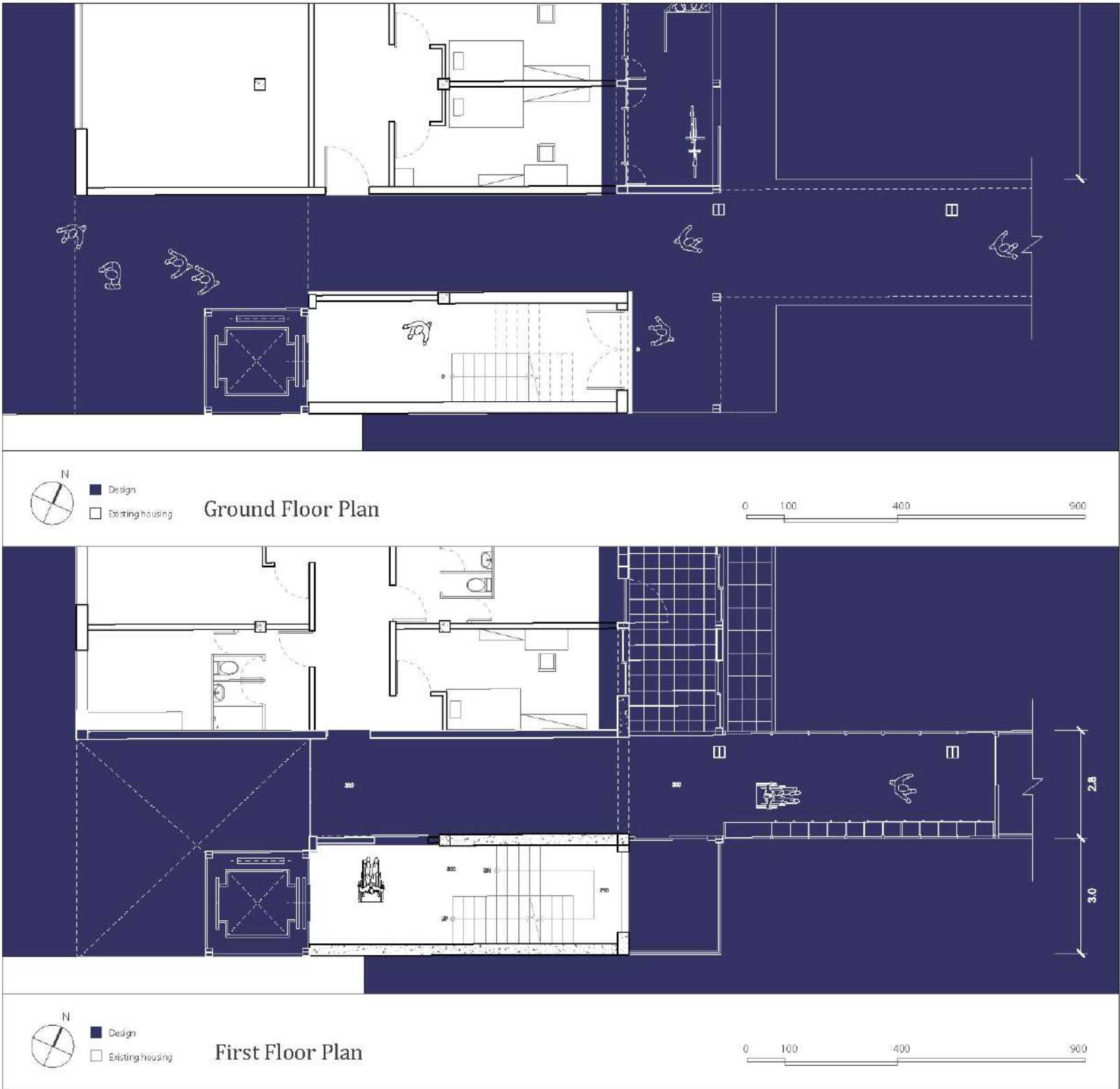


Small territory 02 -
Building Entrance

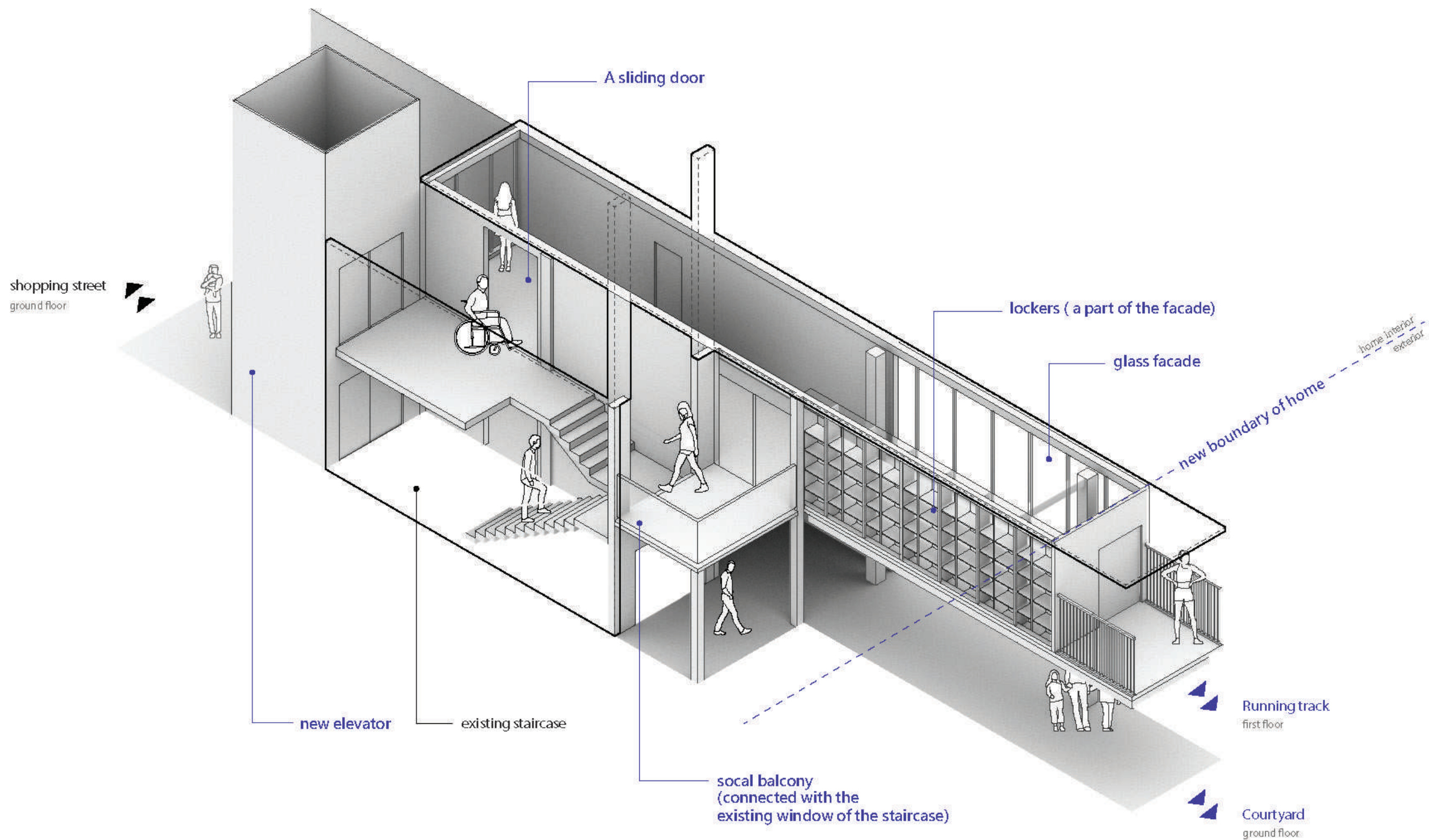


Remove a part of the building on the ground and the first floors.

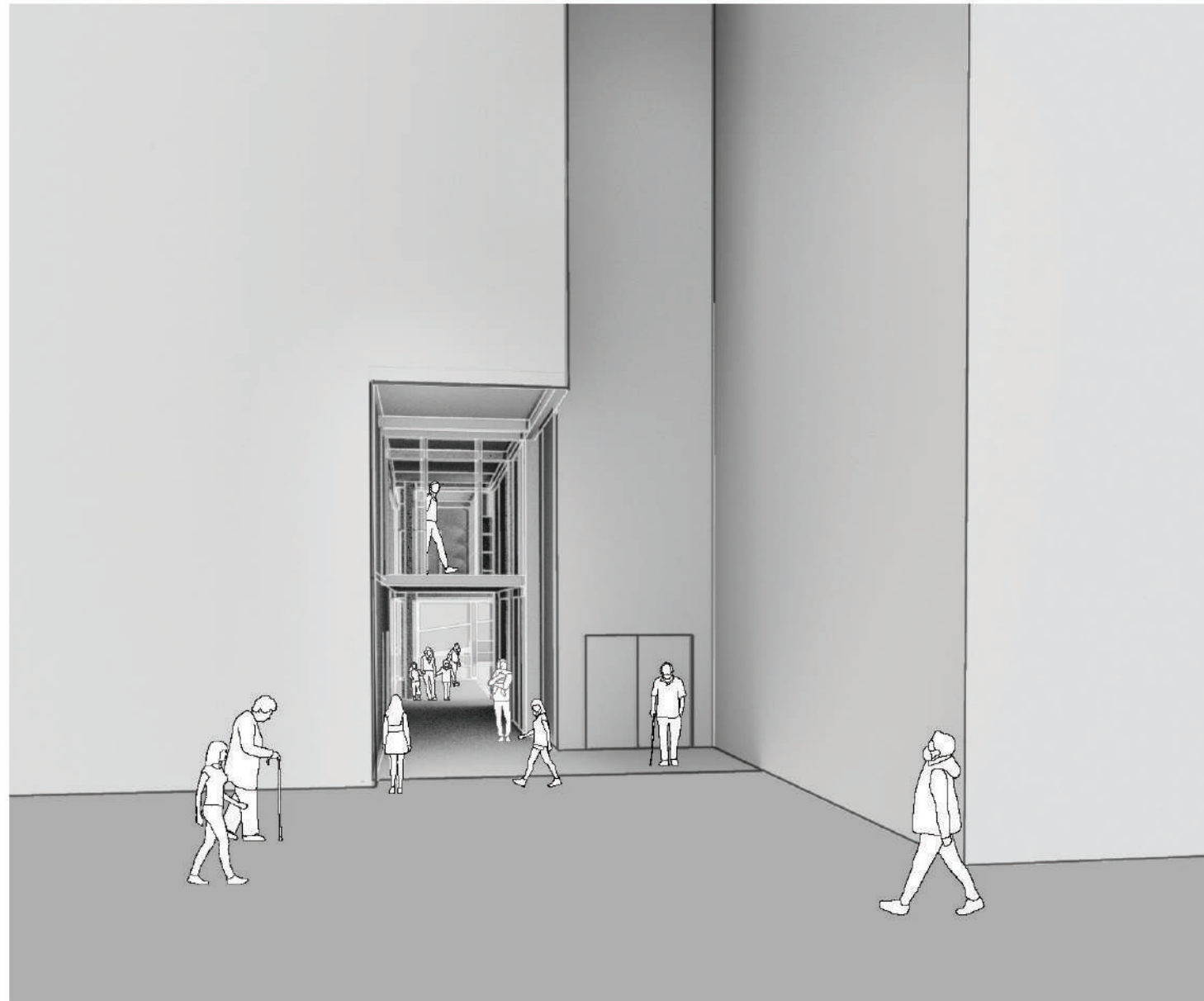
- Define the new boundary of home



Small territory 02 -
Building Entrance

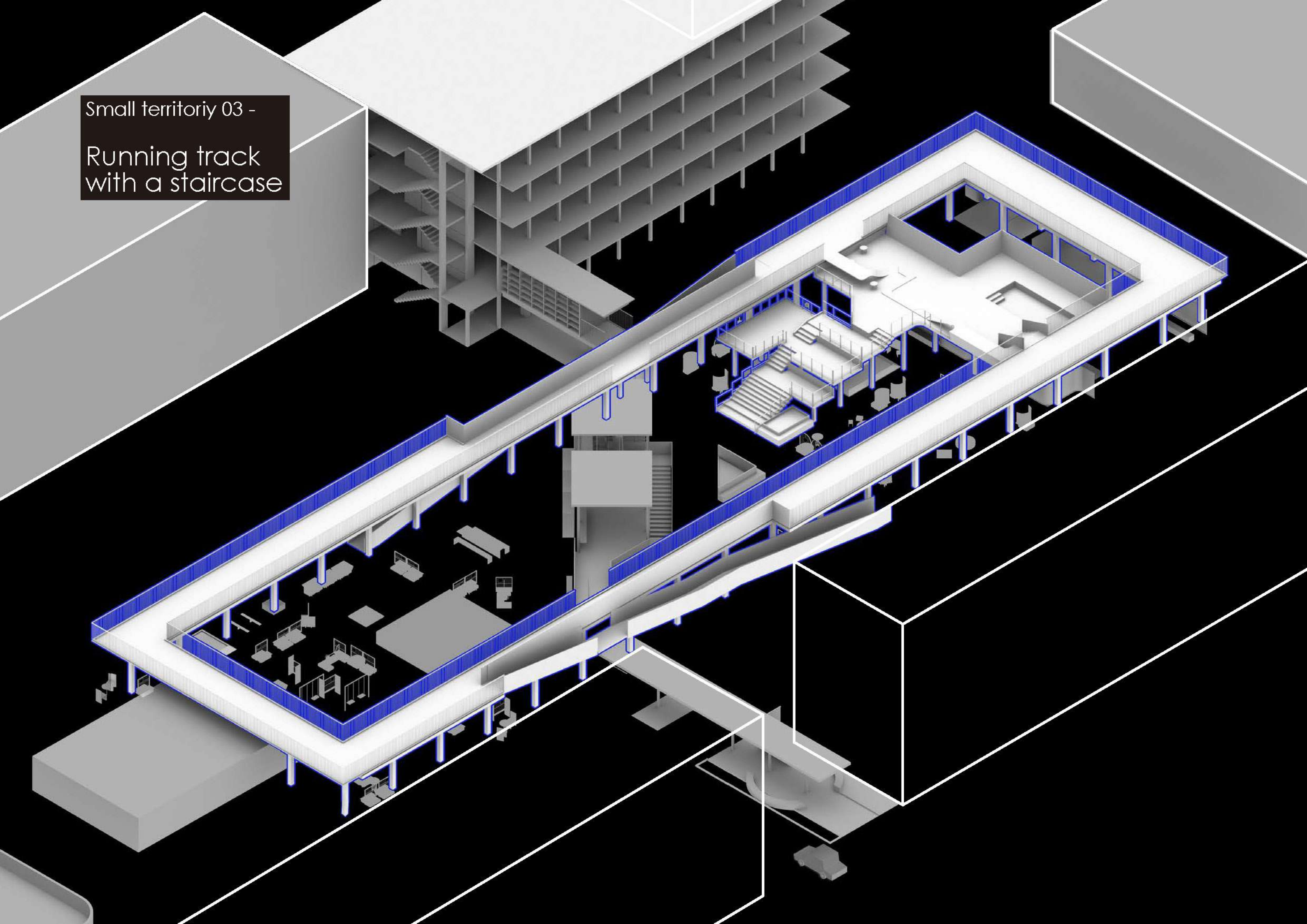


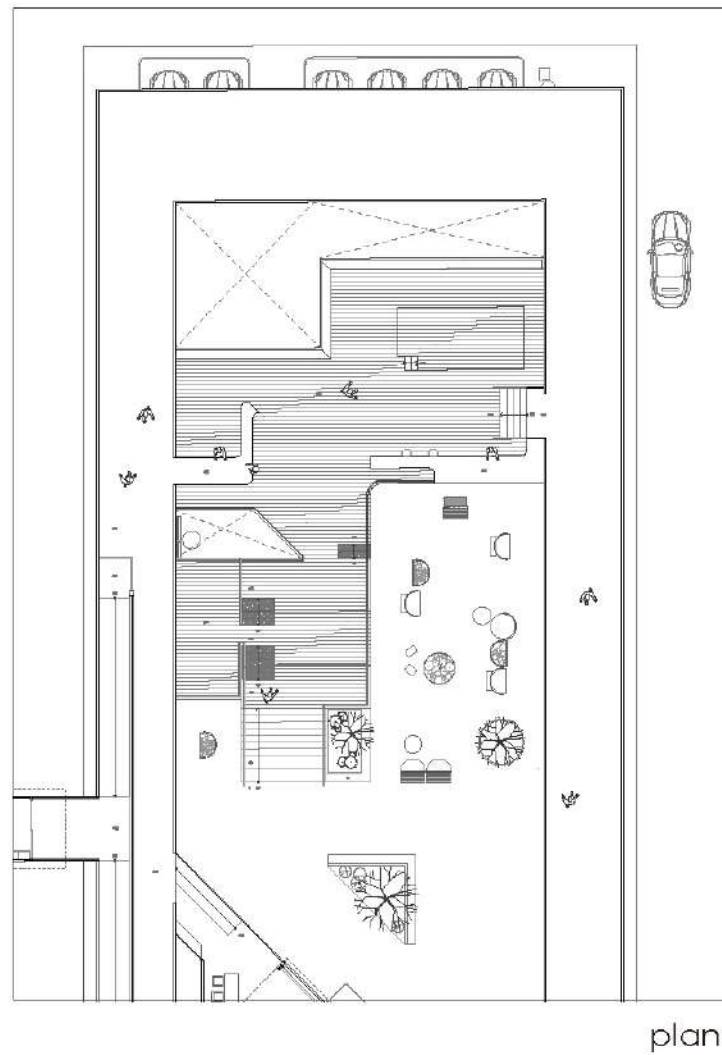
Small territory 02 -
Building Entrance



View from the shopping street

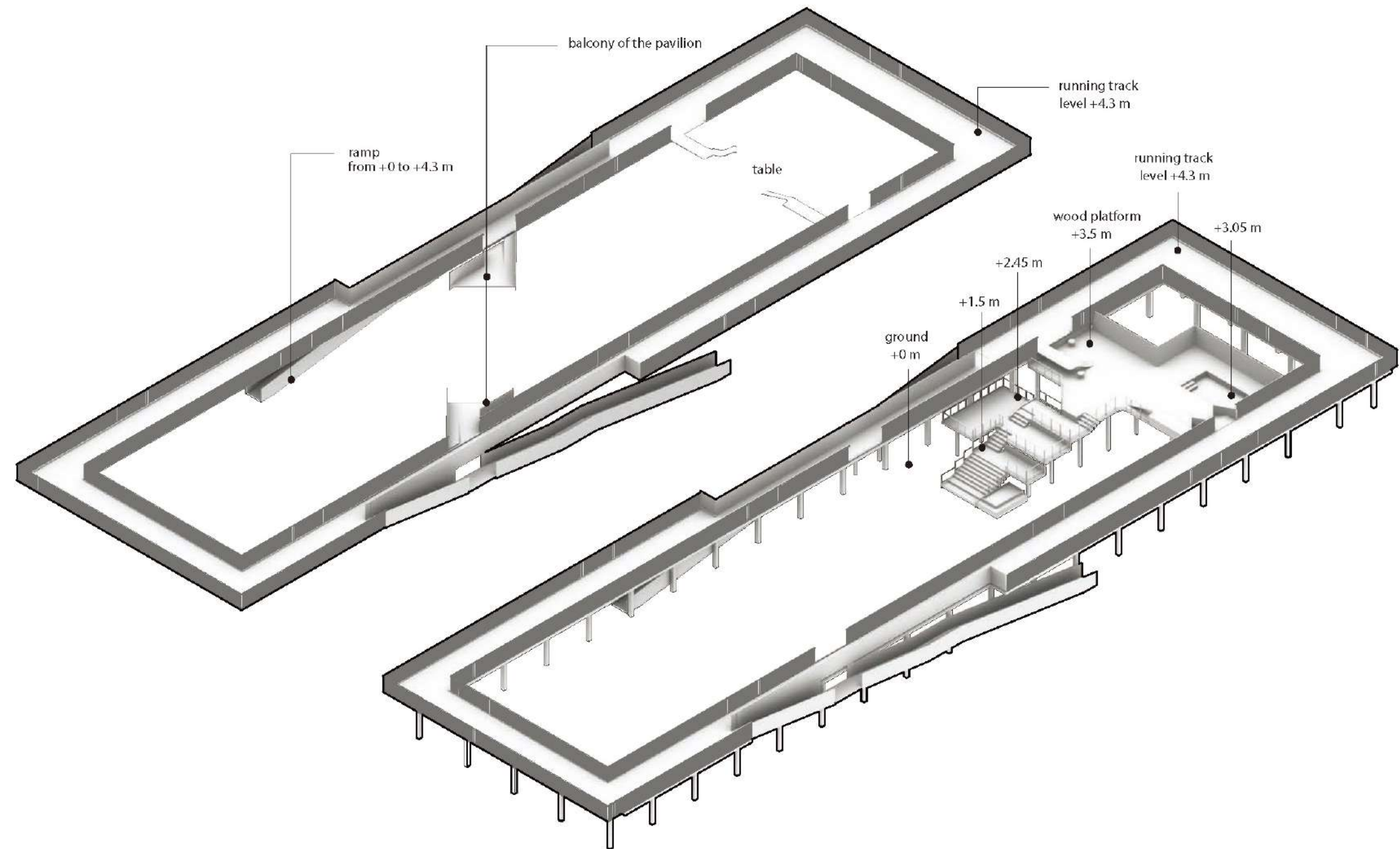
Small territory 03 -
Running track
with a staircase





Running track with a staircase

- Integrate the acts and programs through the linear surface



Different usages of the track at different levels

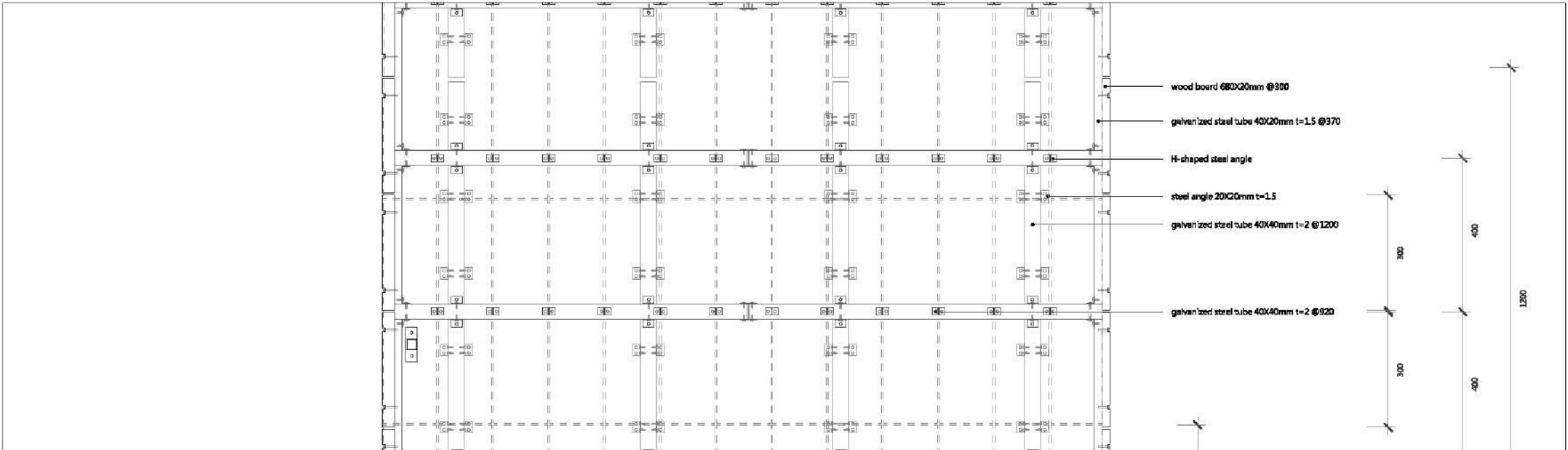
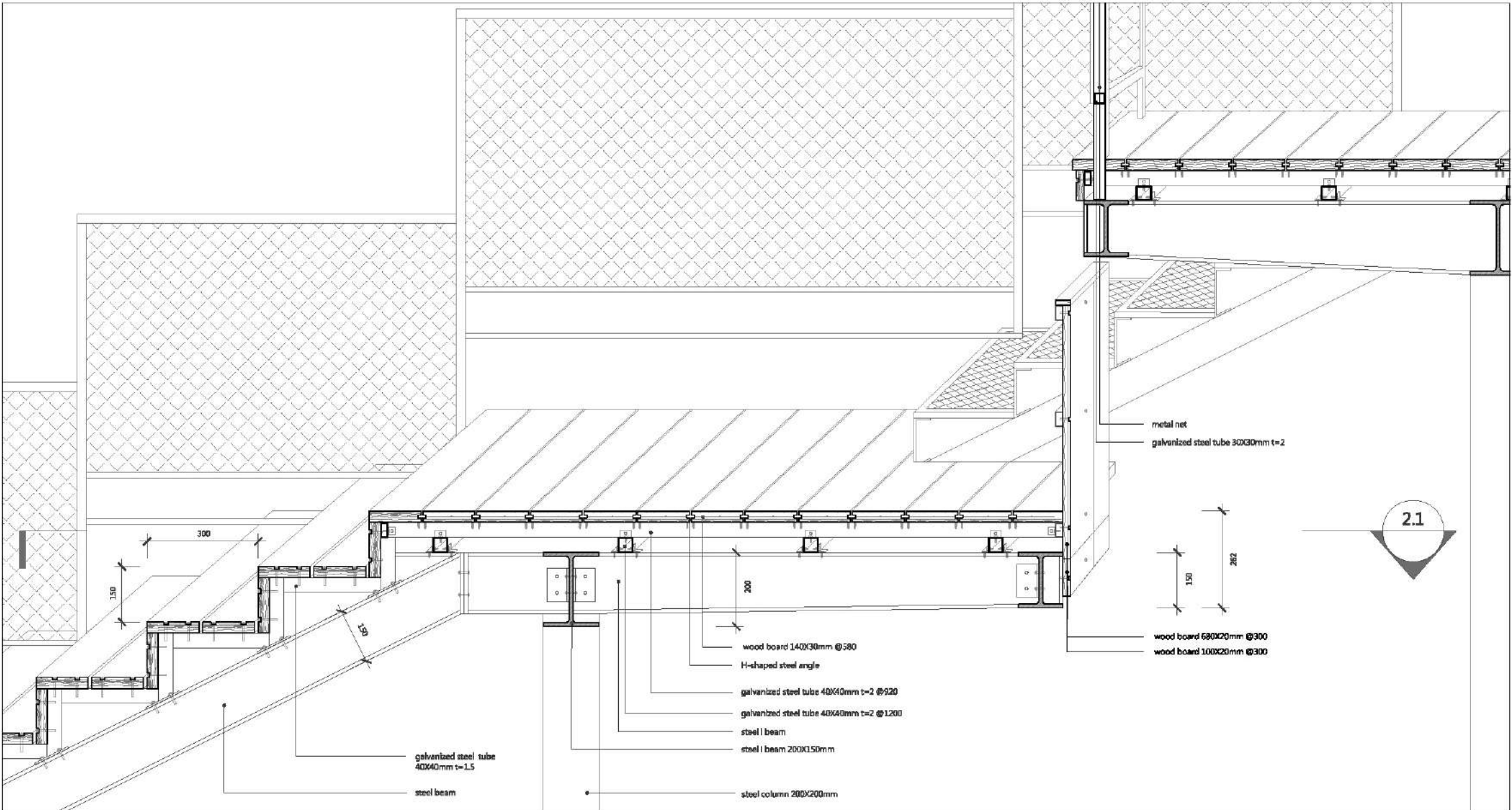
When the people are approaching the track from the ground, there are different distances between their position and the track. These vertical distances let the track provide various programs, such as canopy, sitting area, or eating table.

Small territory 03 -
Running track
with a staircase



Small territory 03 -

Running track
with a staircase



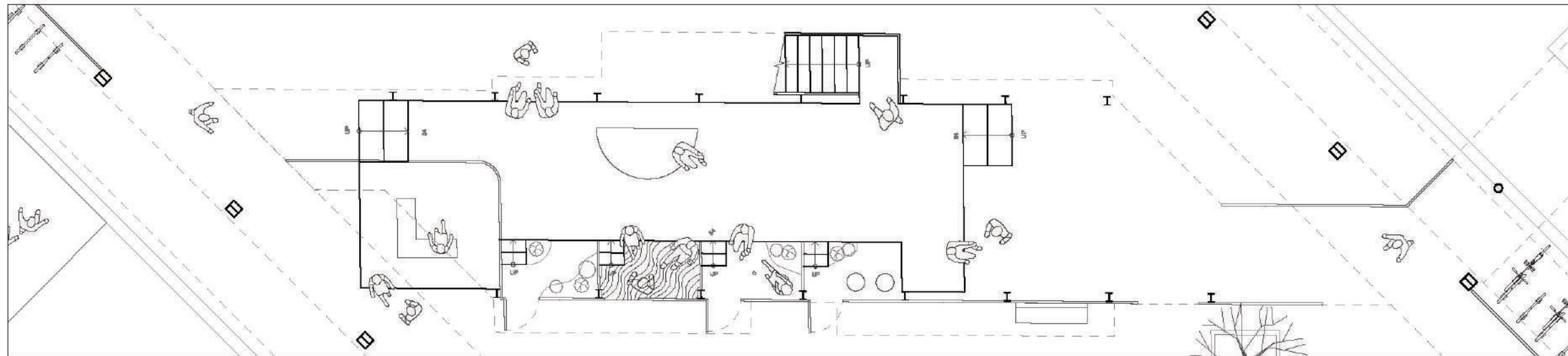
Small territory 04 -
Room pavilion



Small territory 04 -

Room pavilion

- The public pavilion as a rest space, attracts the people from the streets

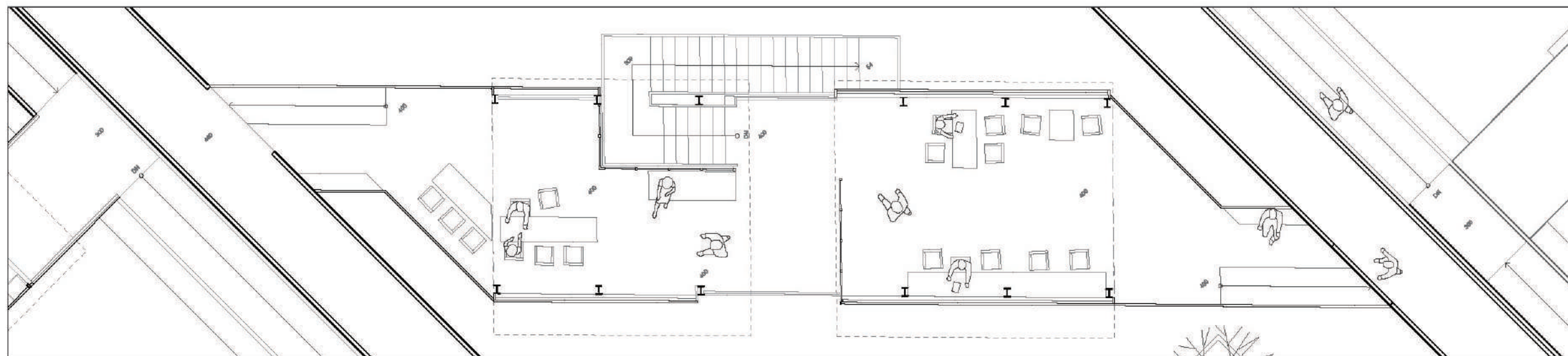


- raised wooden platform

- two ideas for the edges:

1. linear stripe = open
2. room = semi-open

Ground Floor Plan

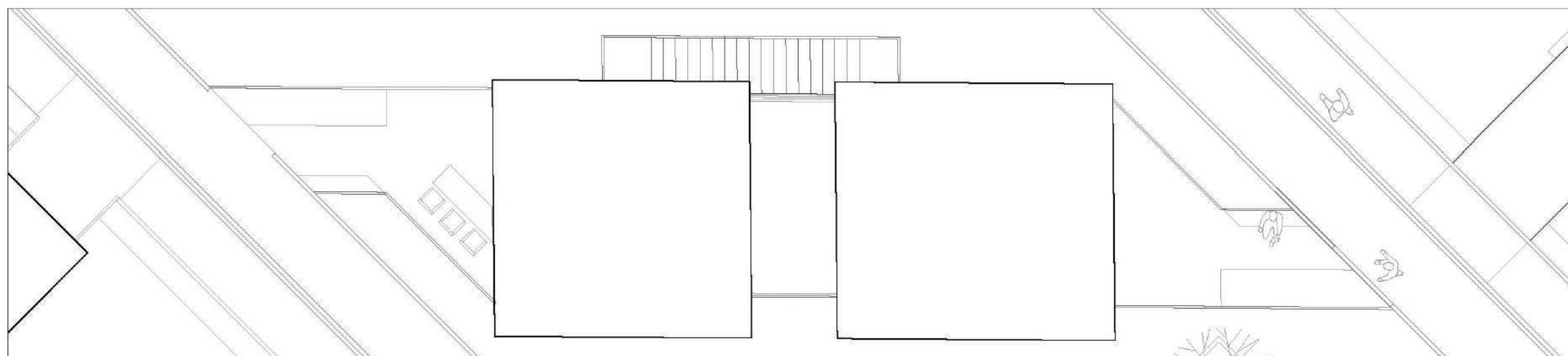


- the balconies connected with the running track

- eating, reading tables

- the middle balcony is the entrance of the two rest spaces

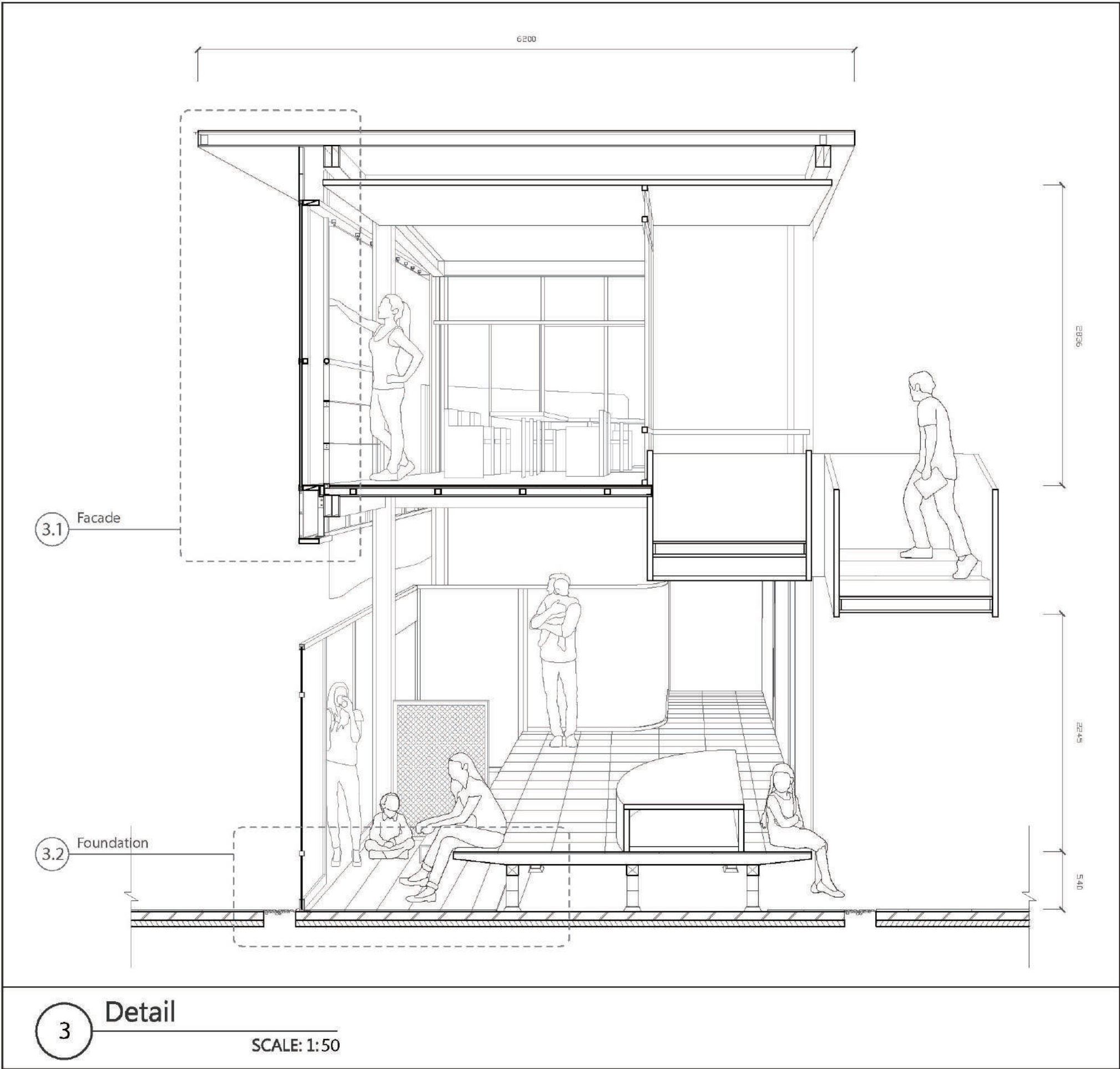
First Floor Plan

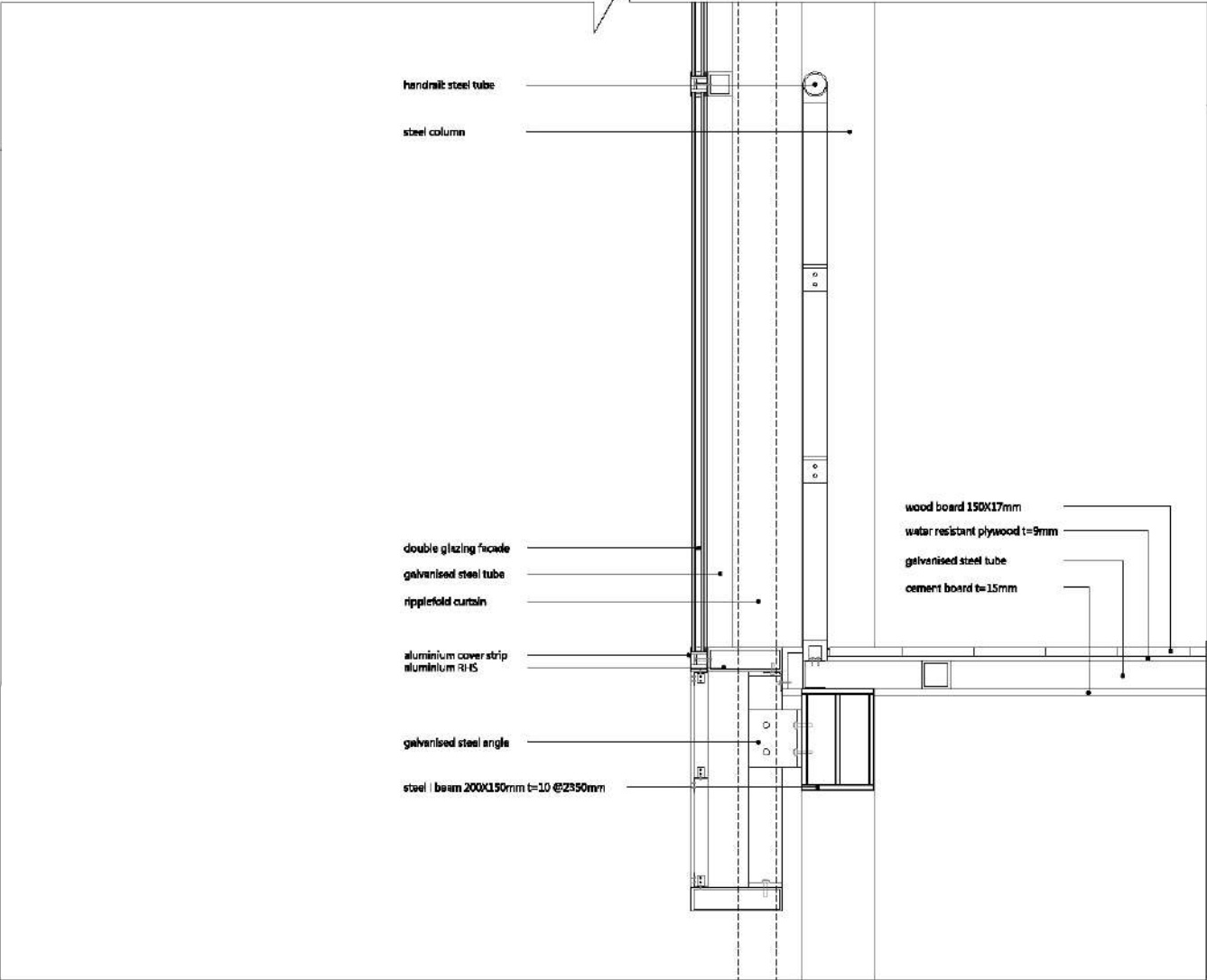
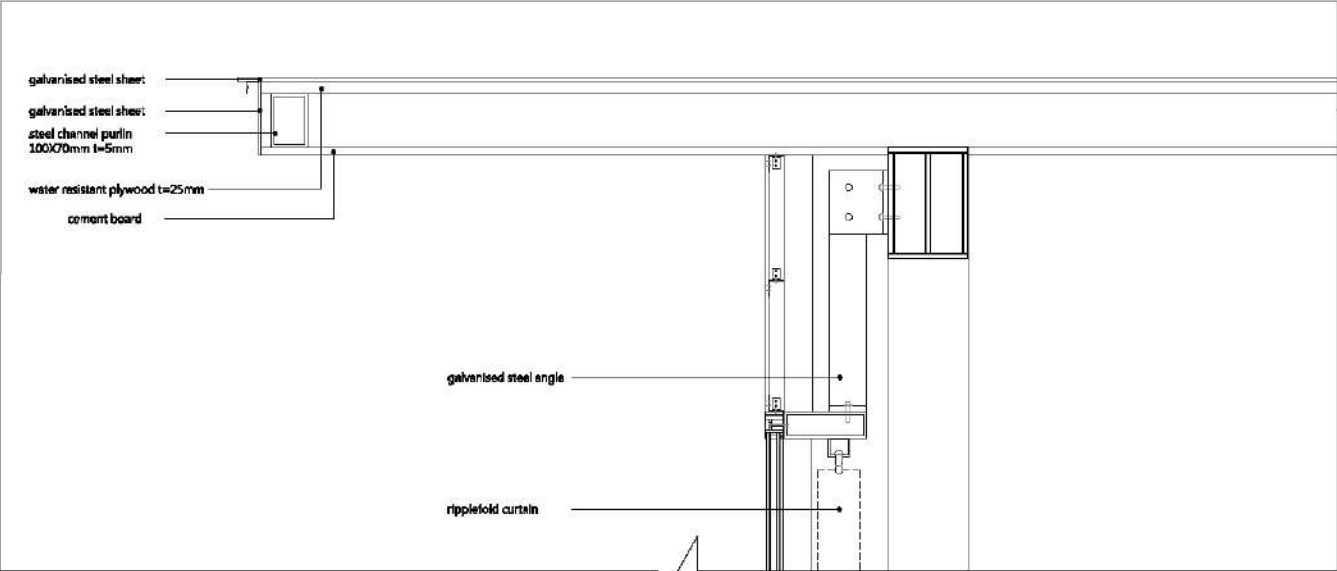


Roof Plan

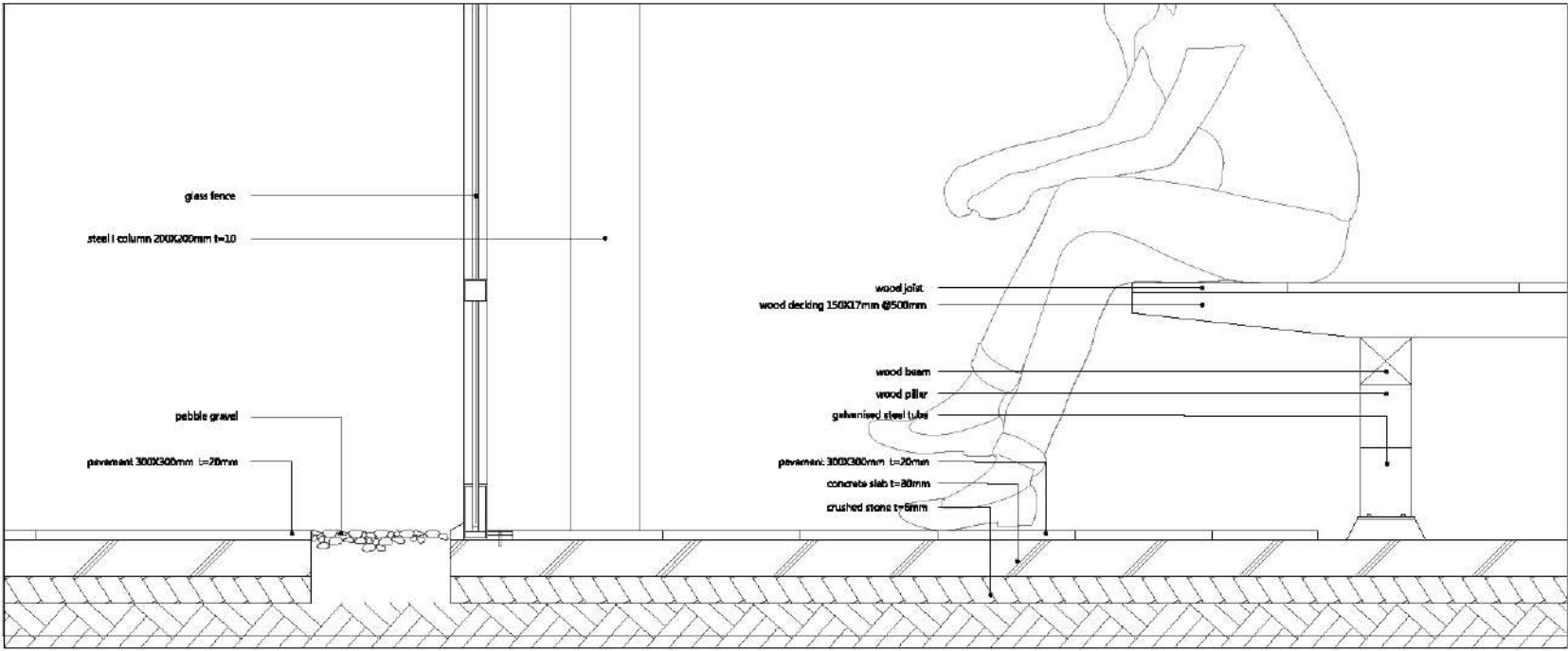
Small territory 04 -
Room pavilion

- indirect interaction of the two floors through the curtain
- various vision at different levels (observation pavilion)





Facade Detail 1:10

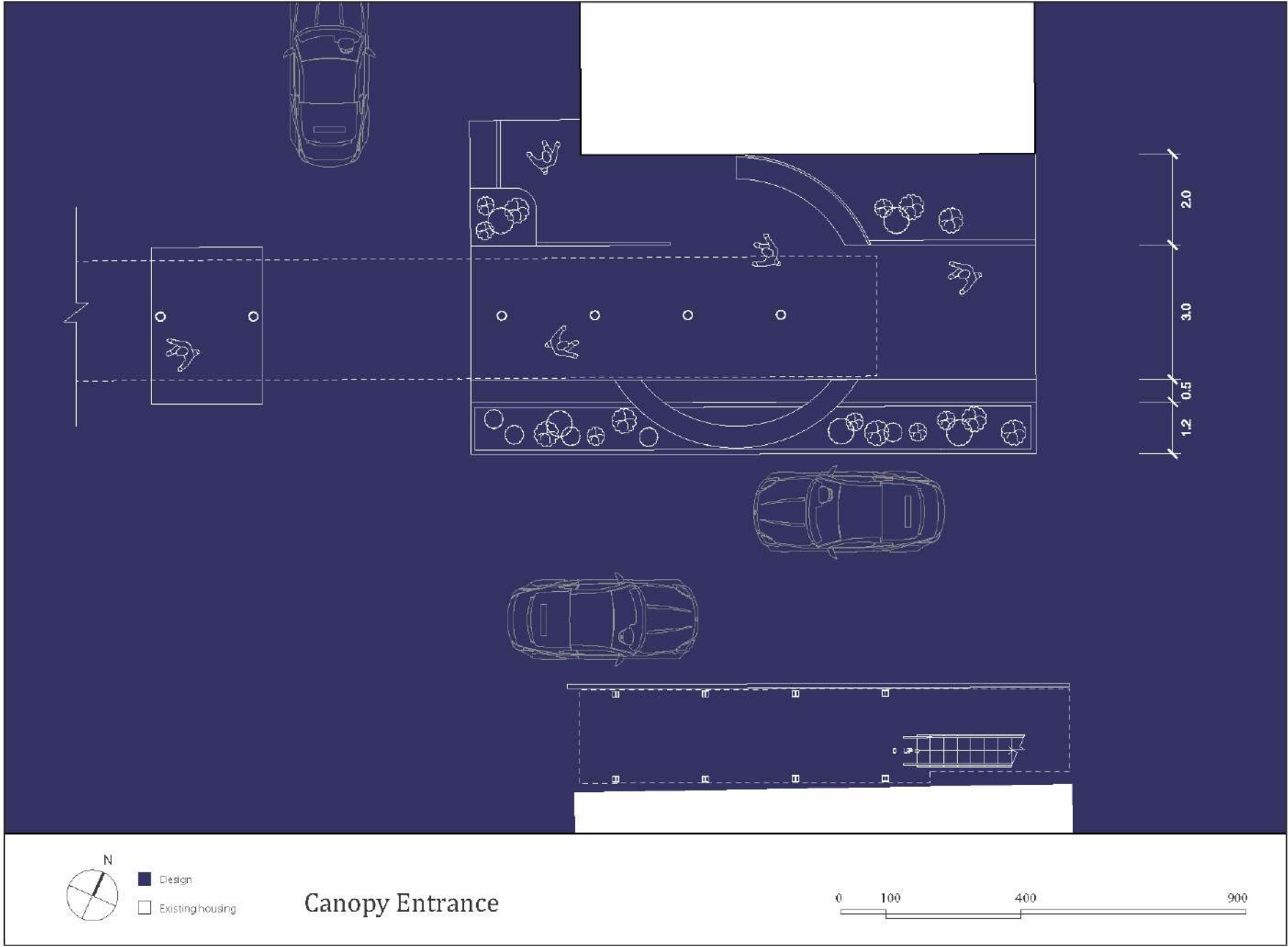
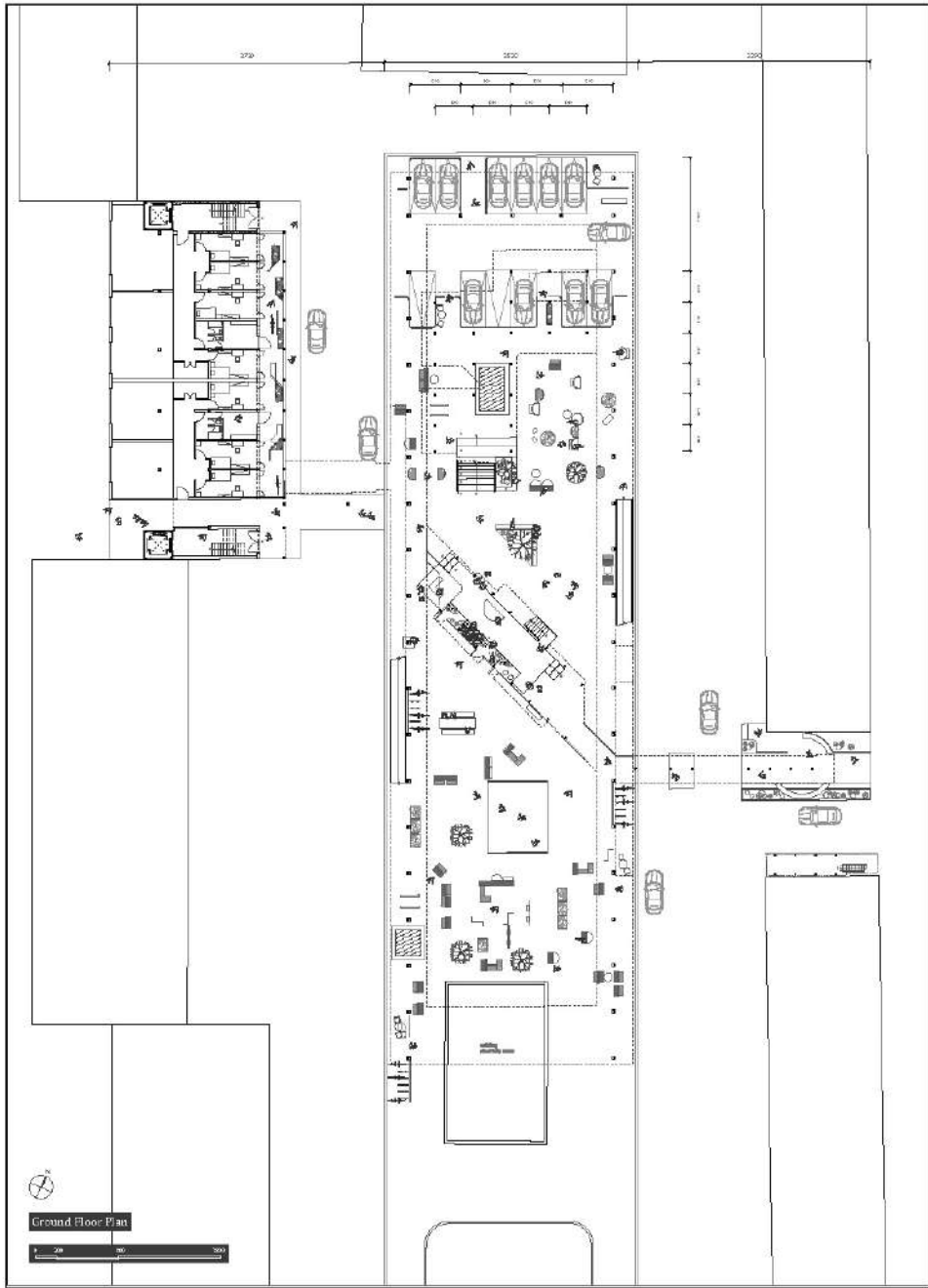


Foundation Detail 1:10

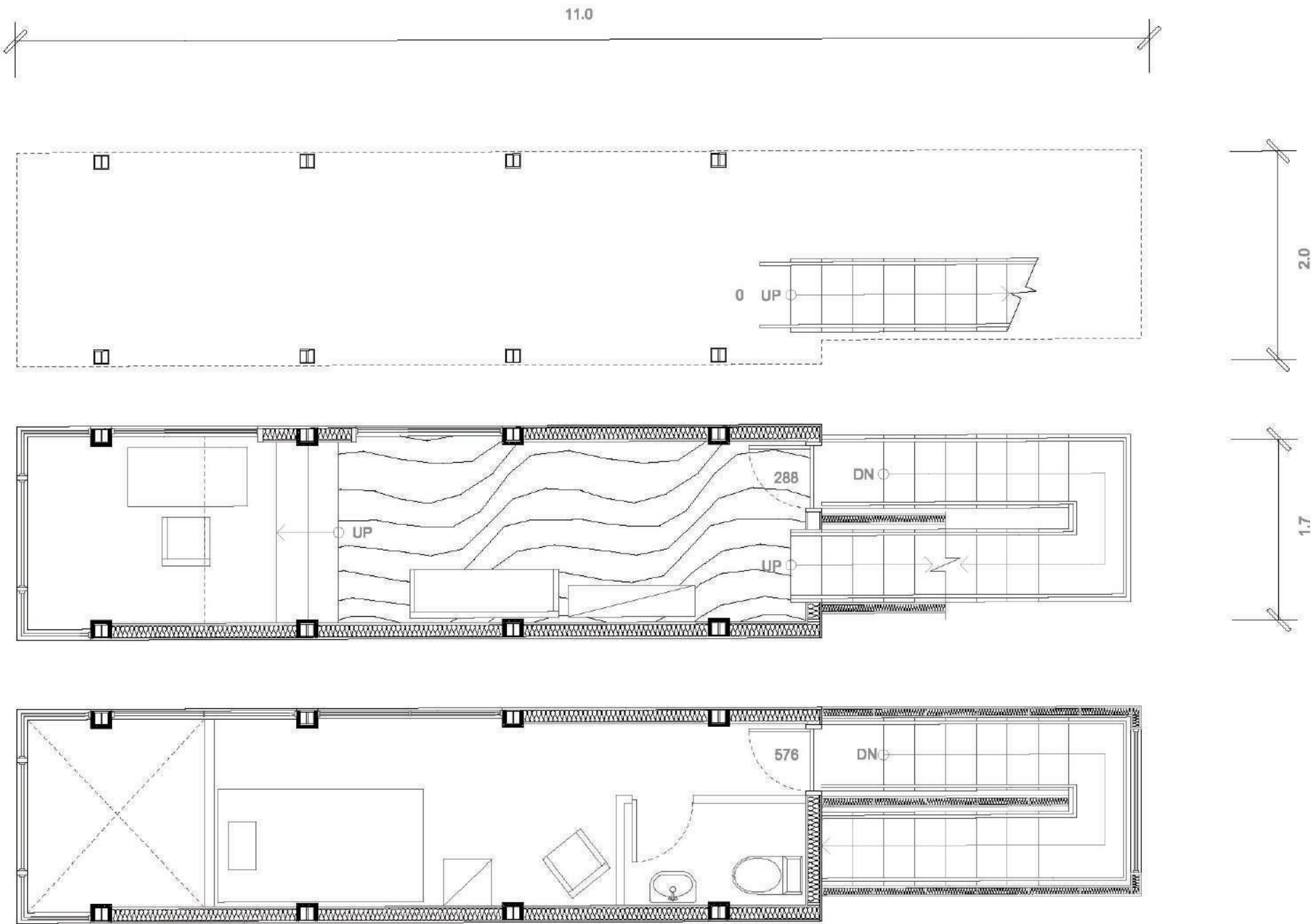
Small territory 05 -
Canopy Entrance



Small territory 05 -
Canopy Entrance



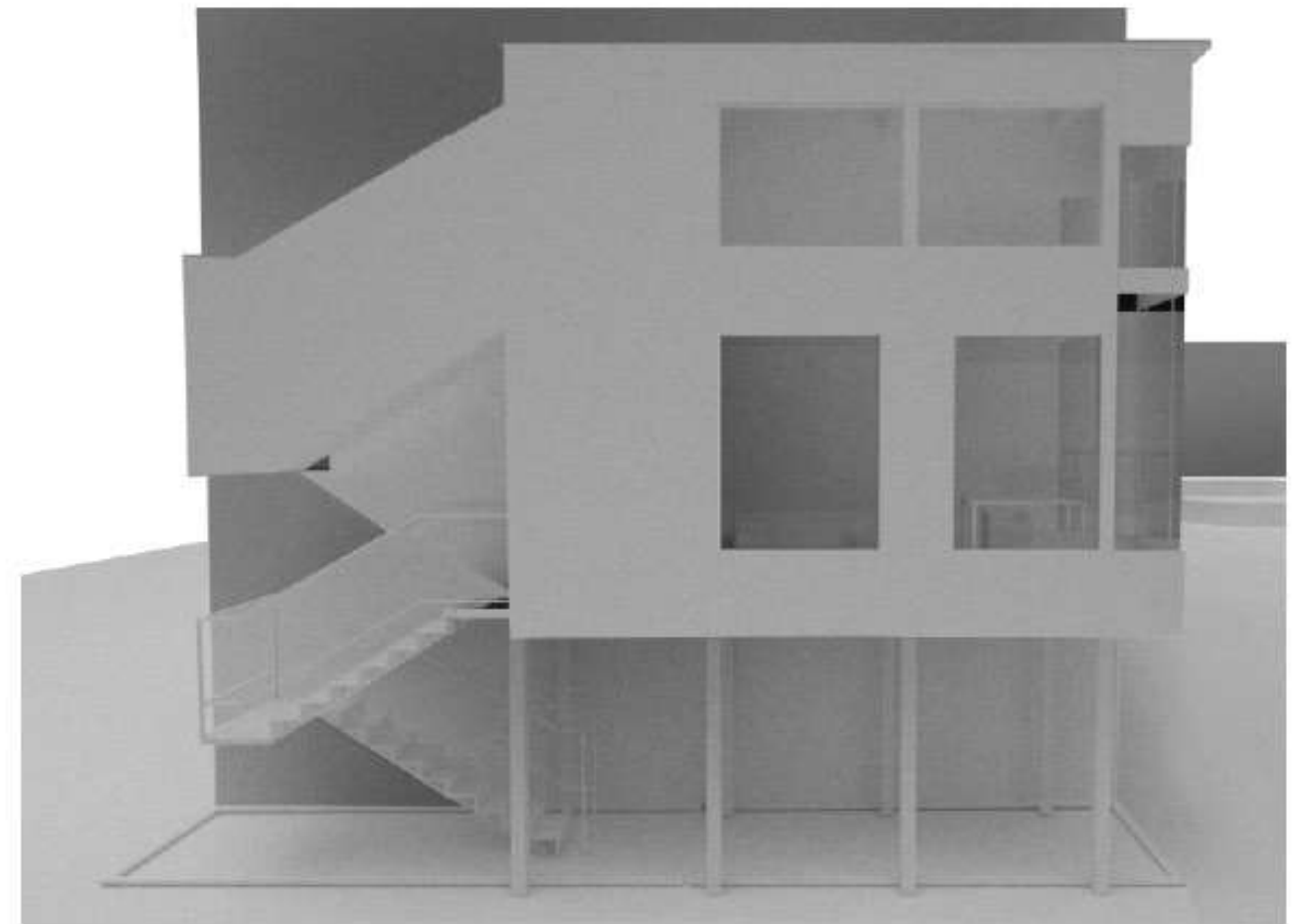
Small territory 05 -
A house of
courtyard keeper



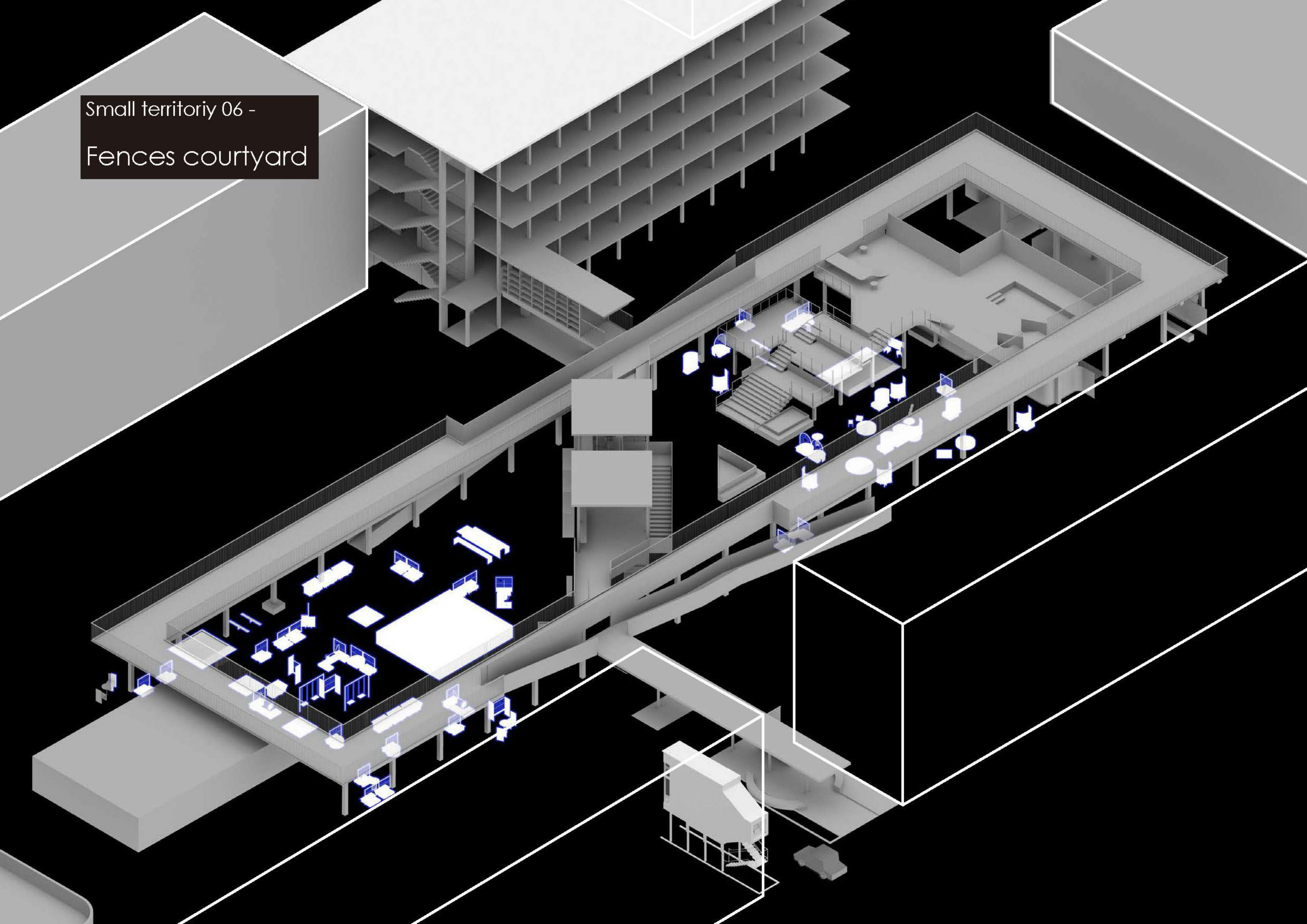
House of courtyard keeper
Scale 1:50

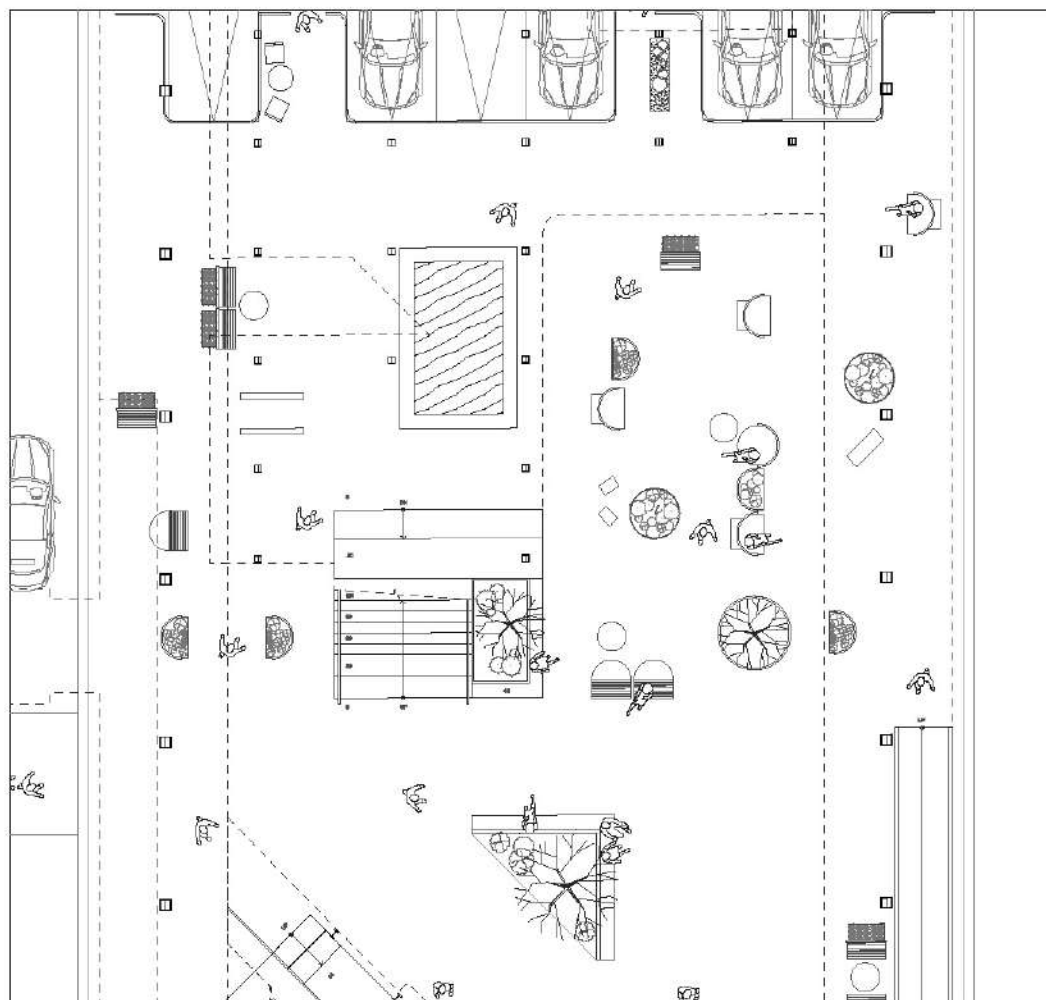
Small territory 05 -

A house of
courtyard keeper

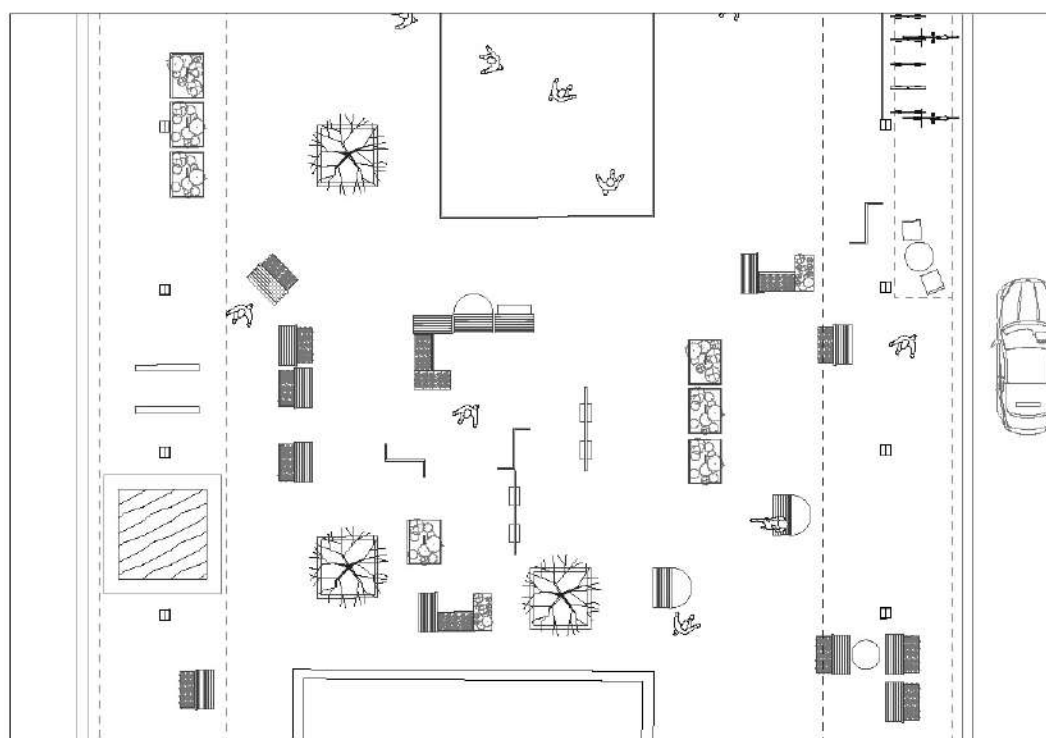


Small territory 06 -
Fences courtyard

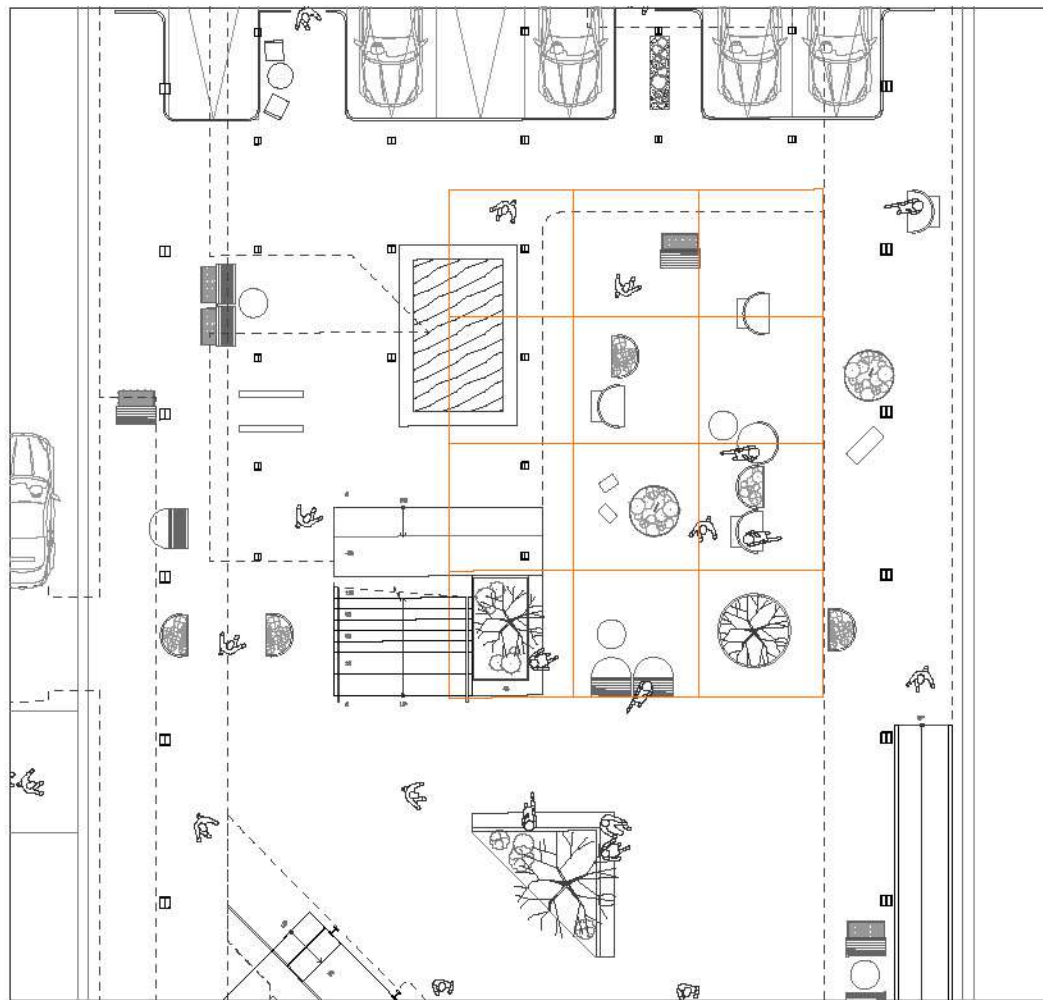




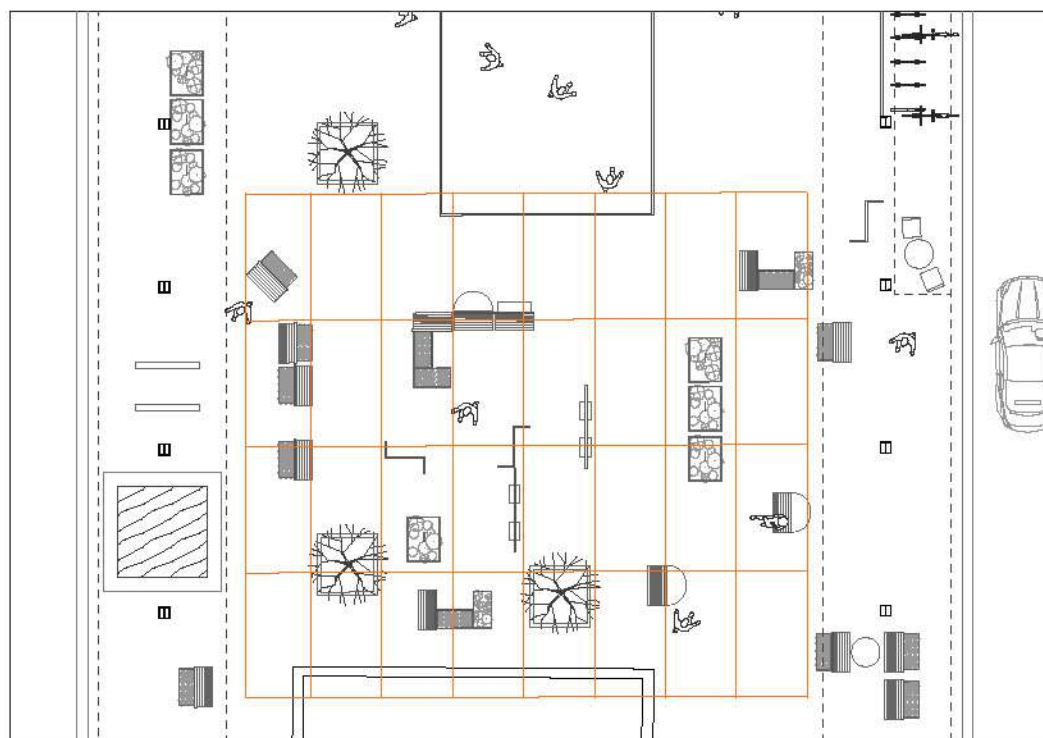
Northern Yard - playground with gardens and fields



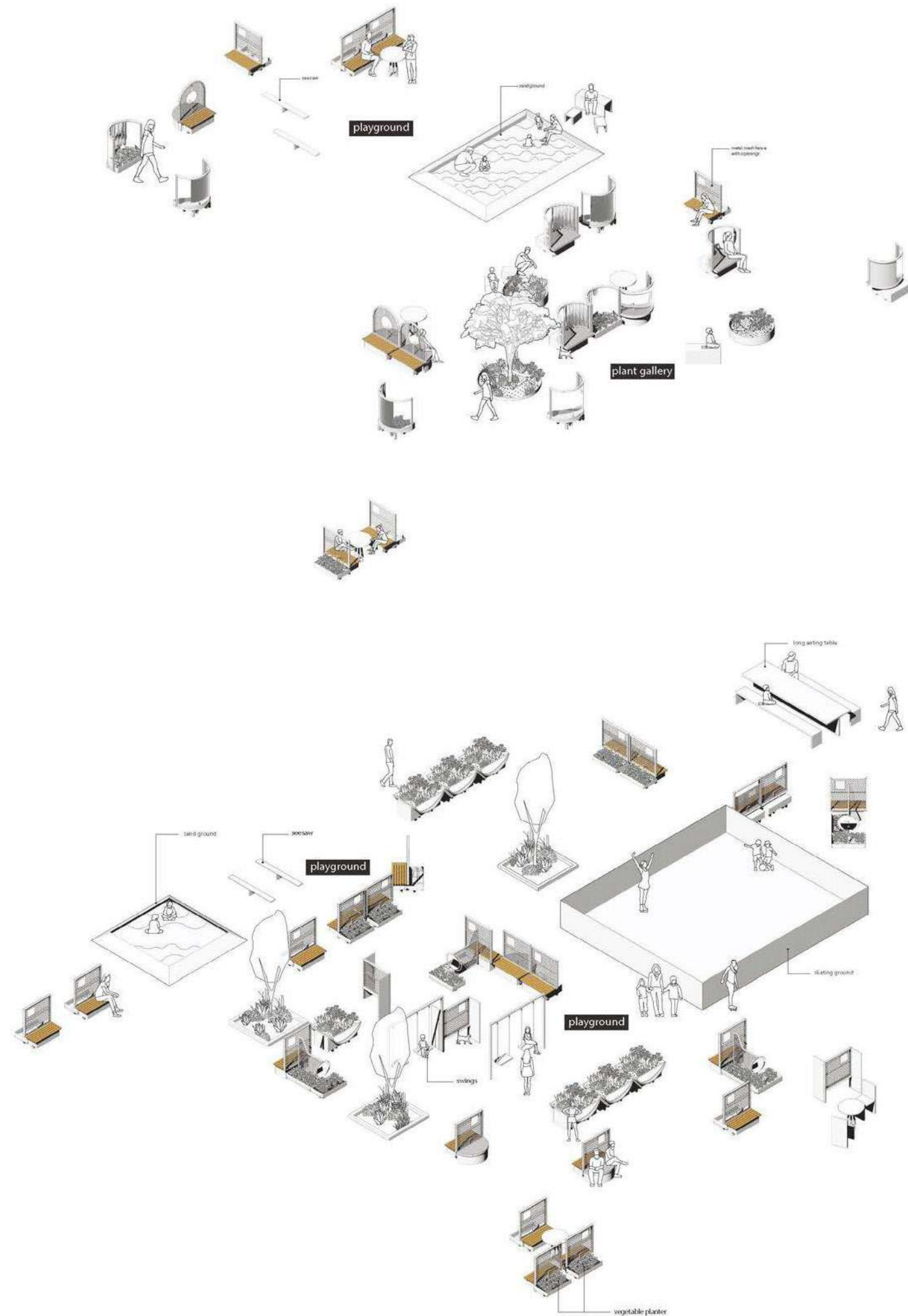
Southern Yard - garden with playground



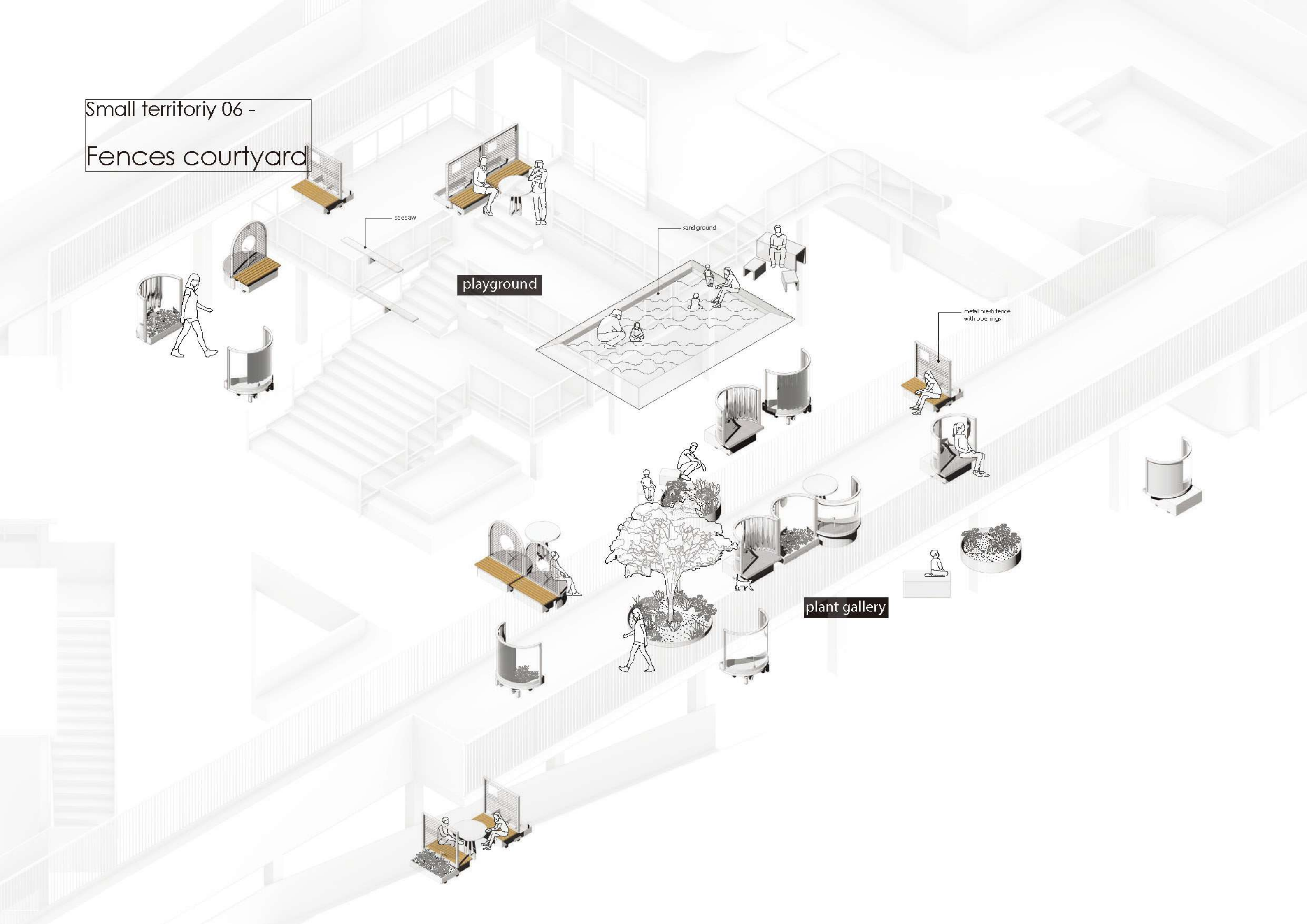
Northern Yard - 3.5mX3.5m Grid division

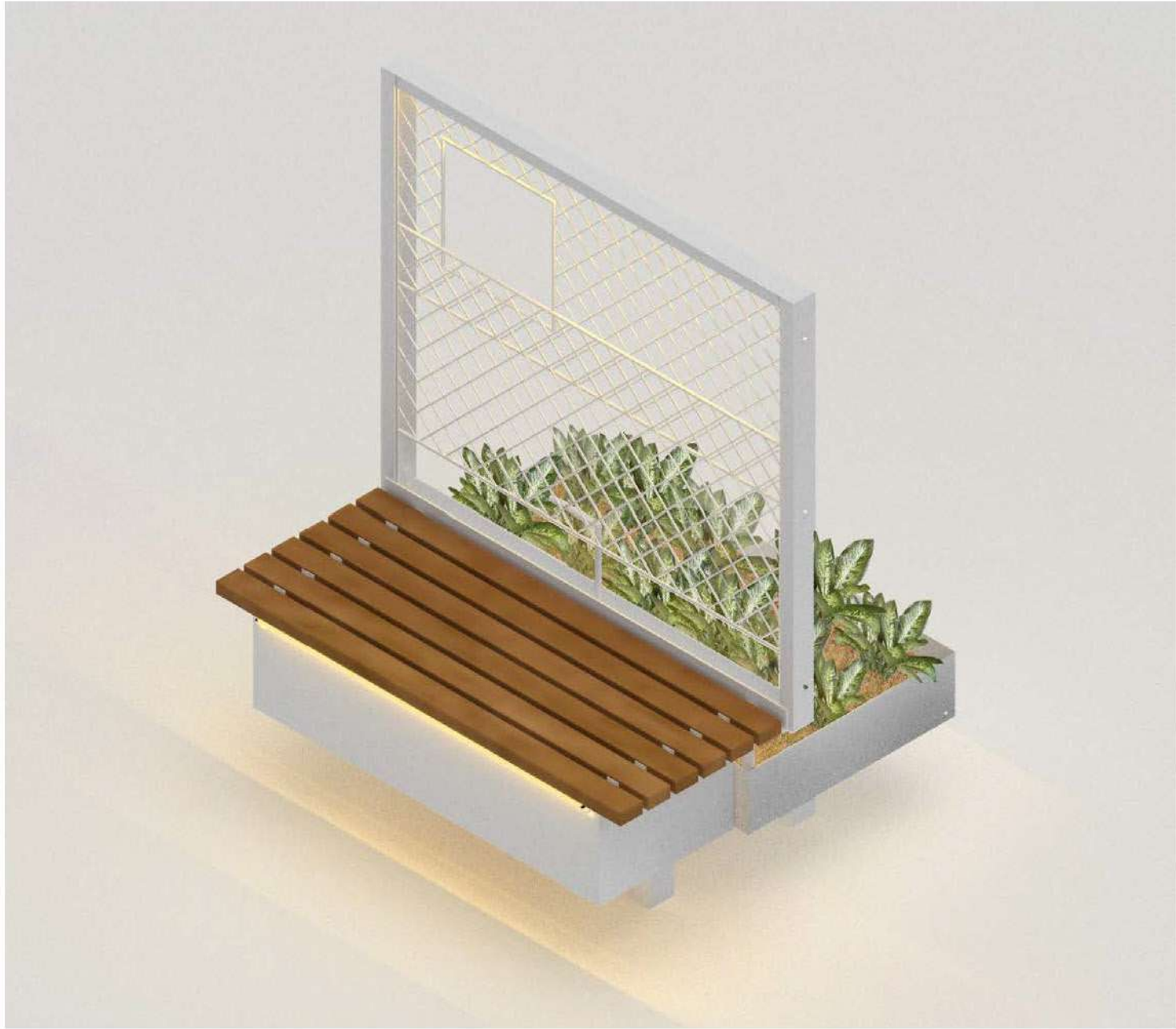


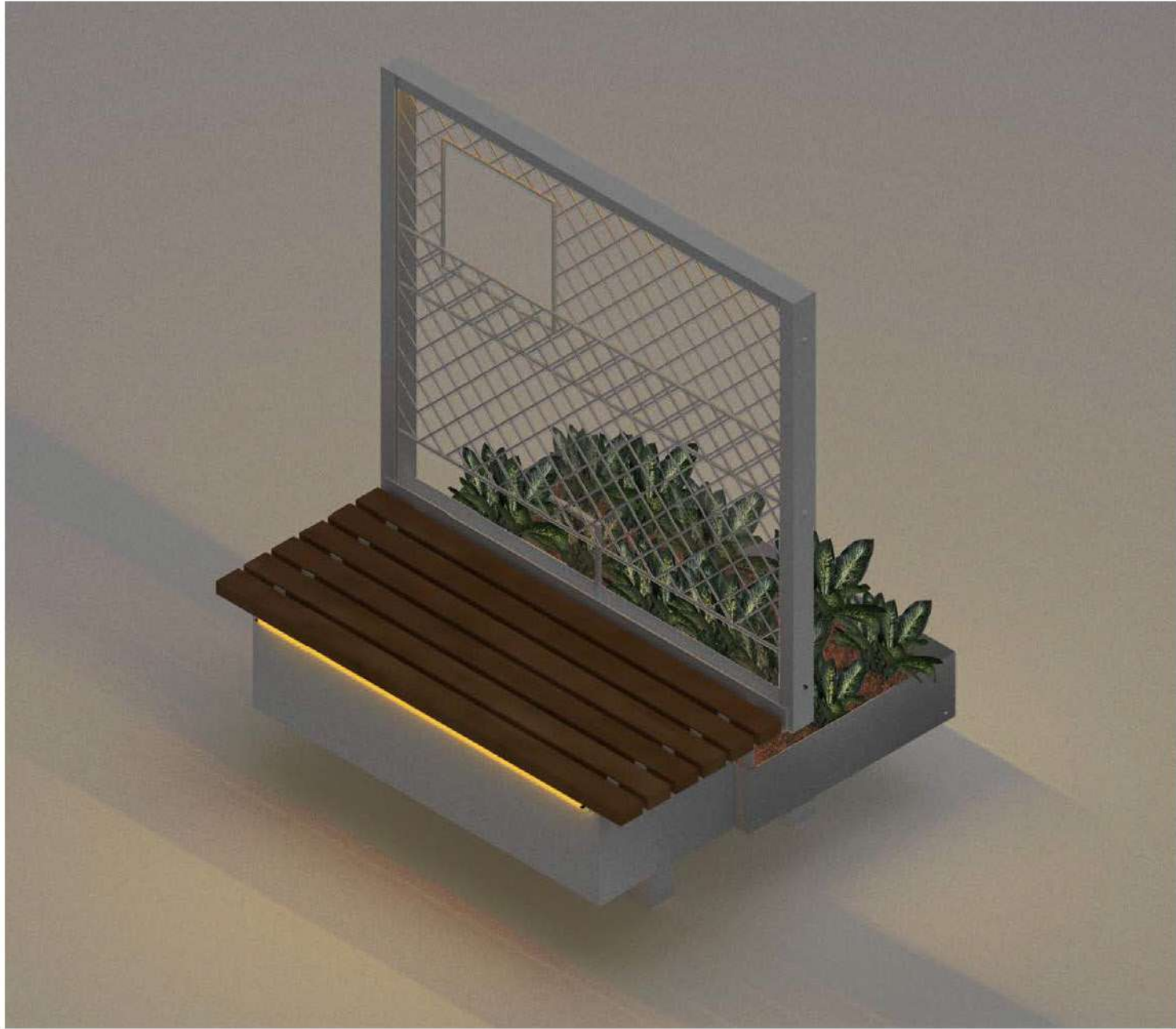
Southern Yard - 2.0mX2.0m Grid division



Small territory 06 -
Fences courtyard





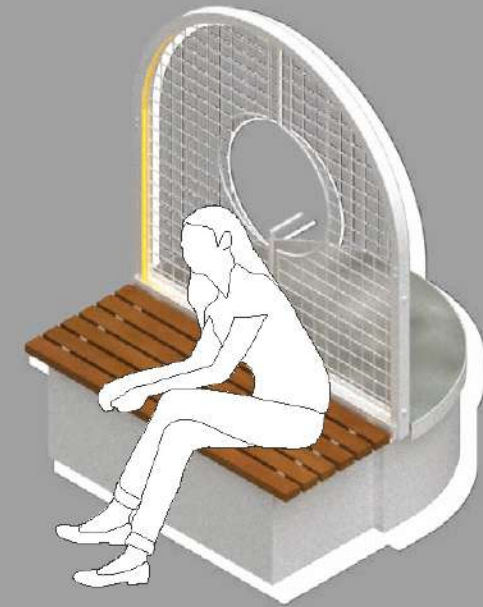




Planter (garden & vegetable field)



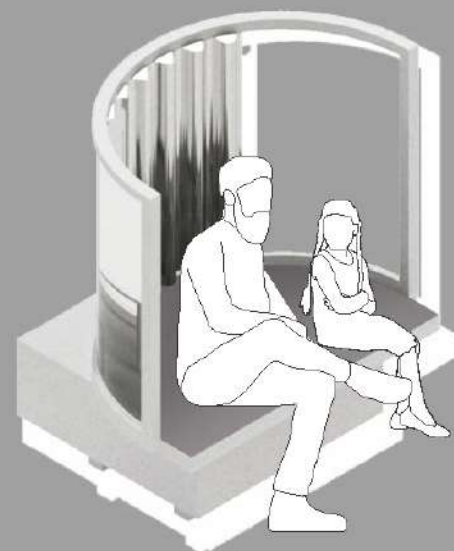
Hybrid Fence with planters



Fence seat (square and half-round)



Glass fence seat (round)

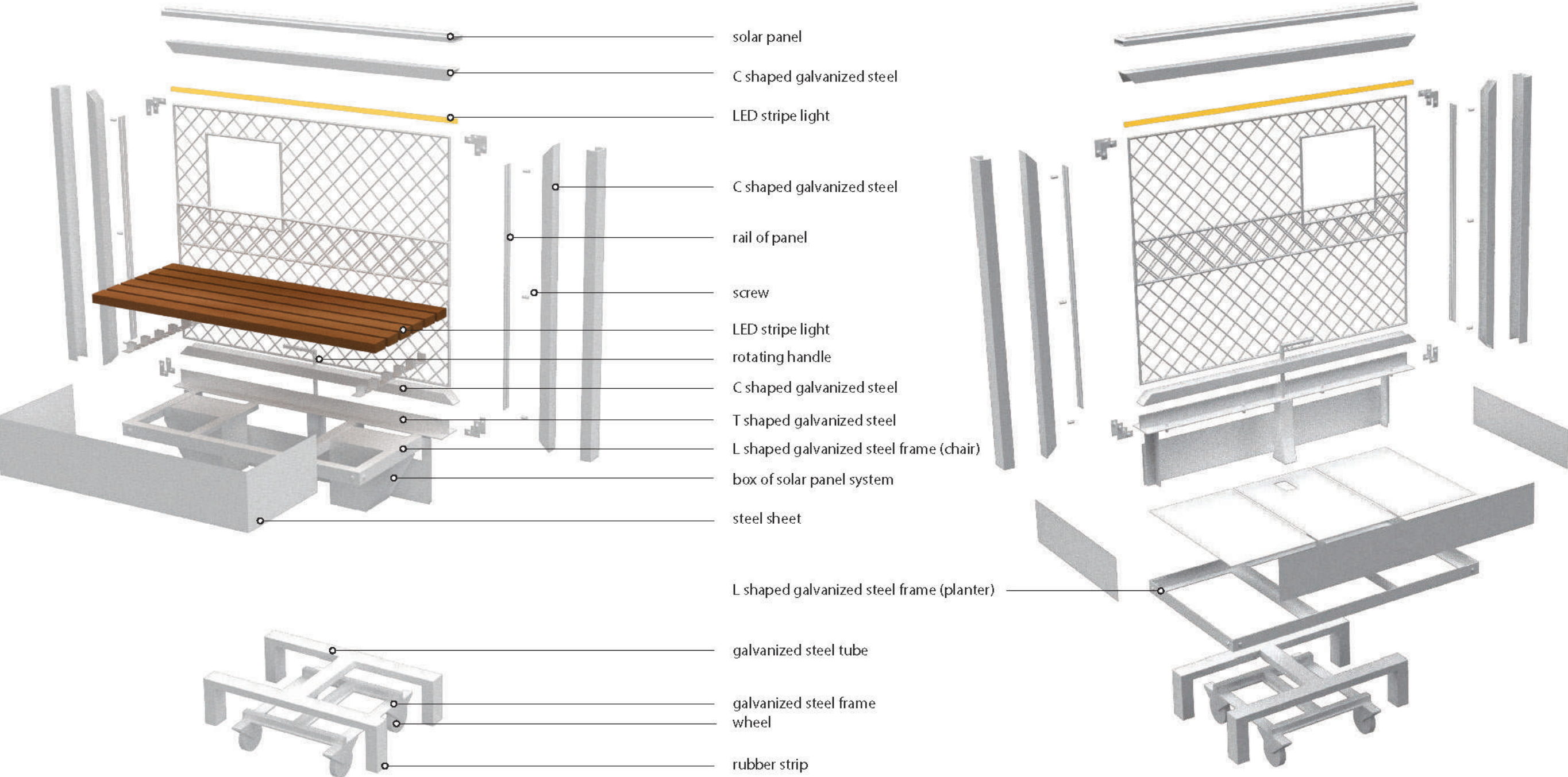


Glass fence seat (half-round)

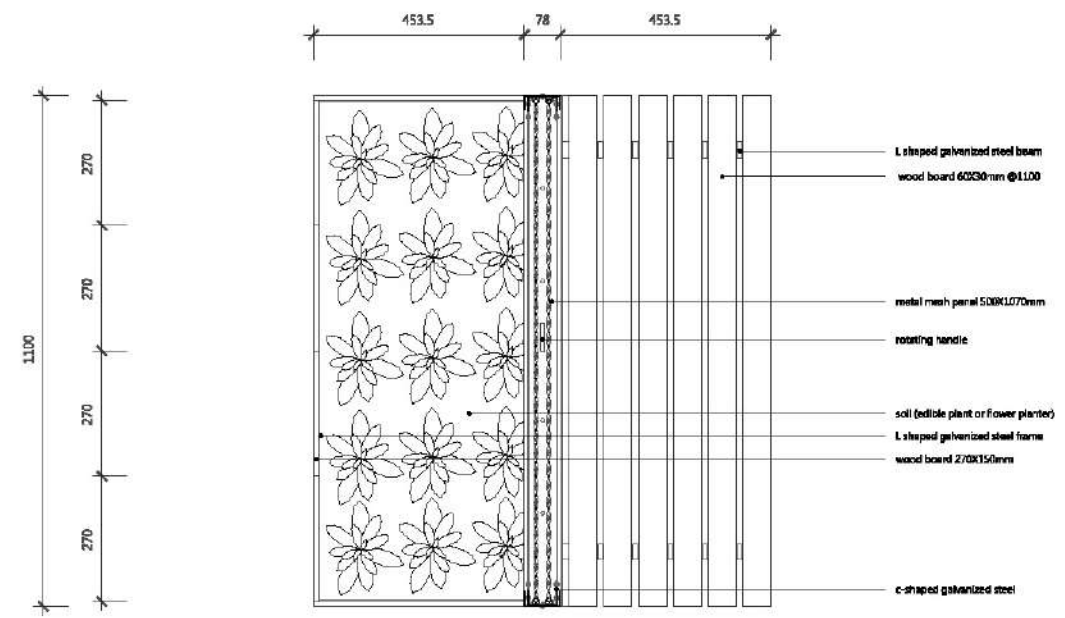


Planter (garden & vegetable field)

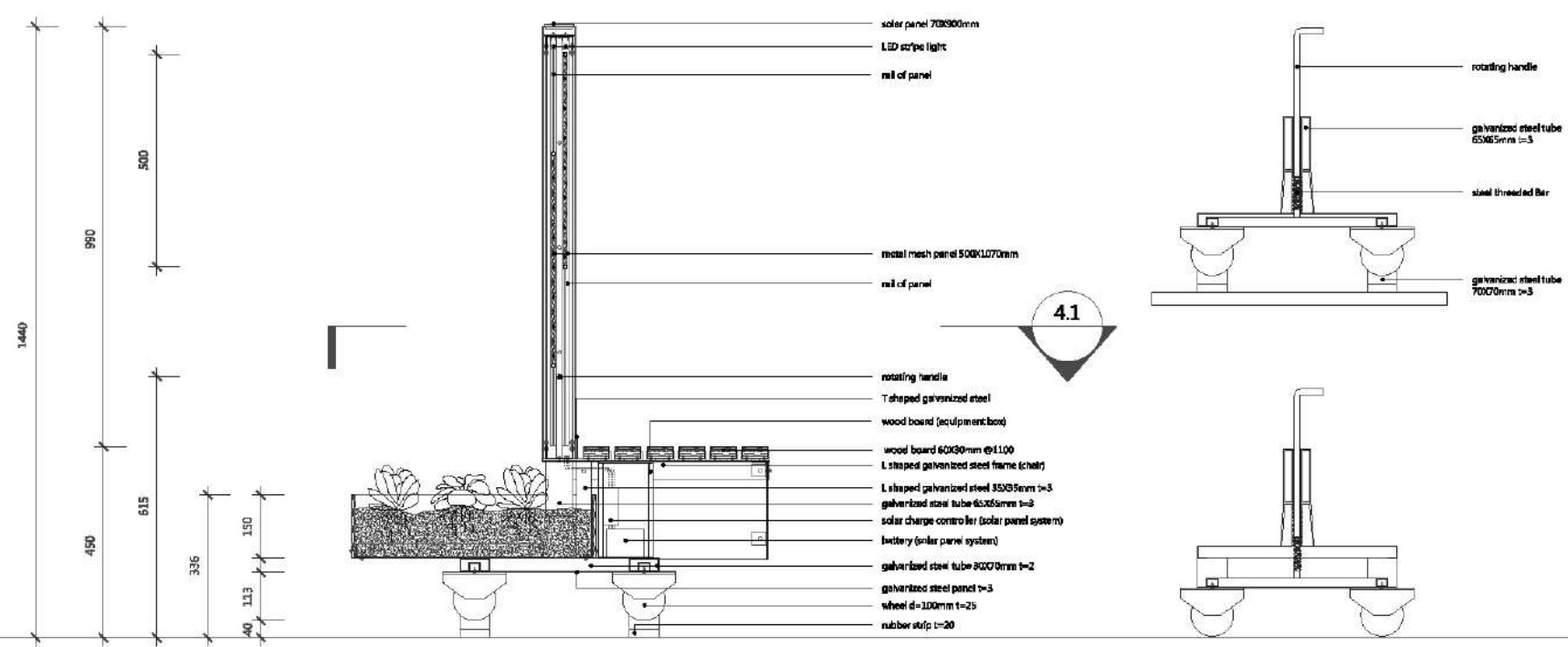
Small territory 06 -
Detail of fence



Small territory 06 -
Detail of fence



4.1 Plan
SCALE: 1:10



4 Section
SCALE: 1:10

Day and Night

Fences courtyard









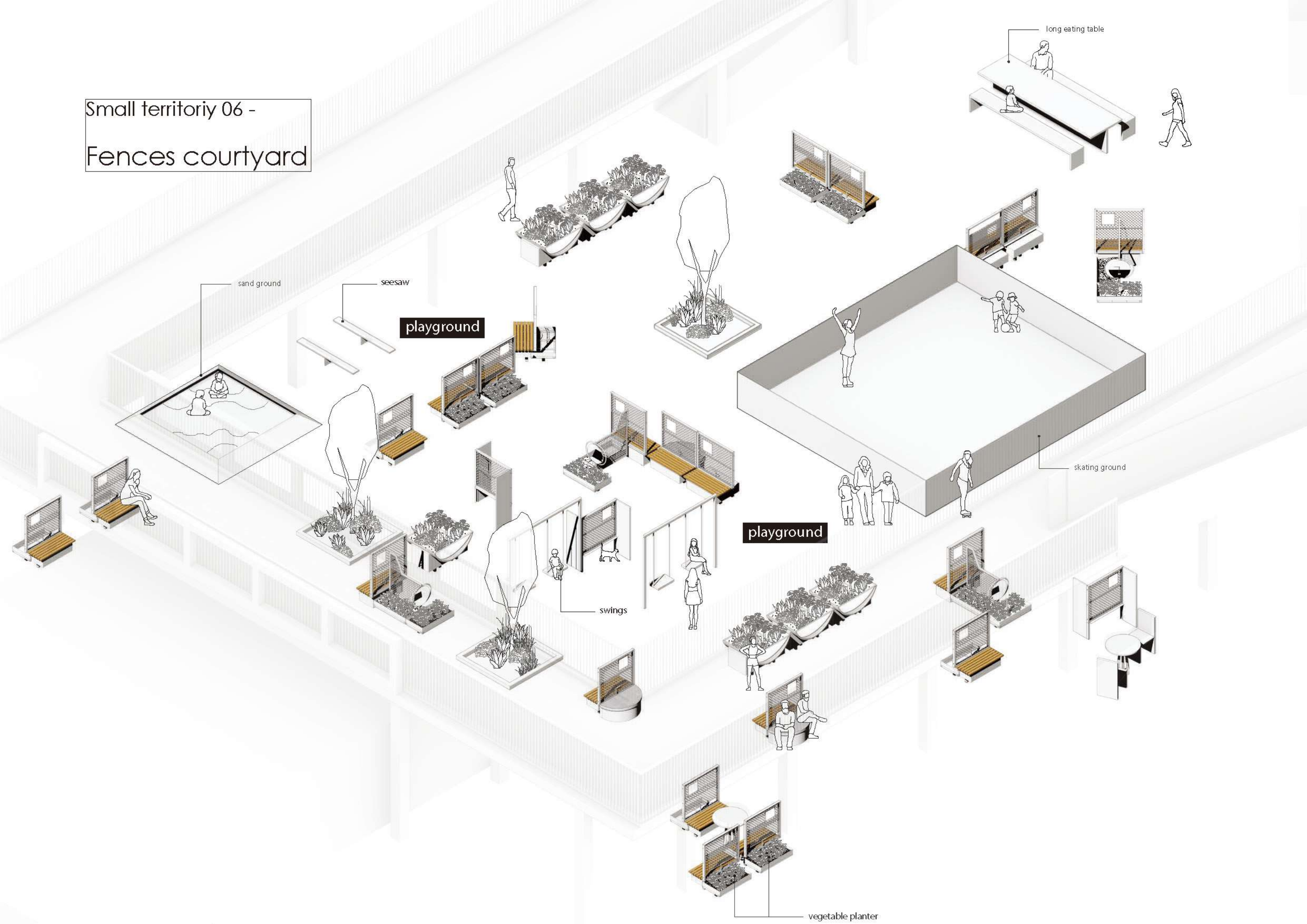








Small territory 06 -
Fences courtyard

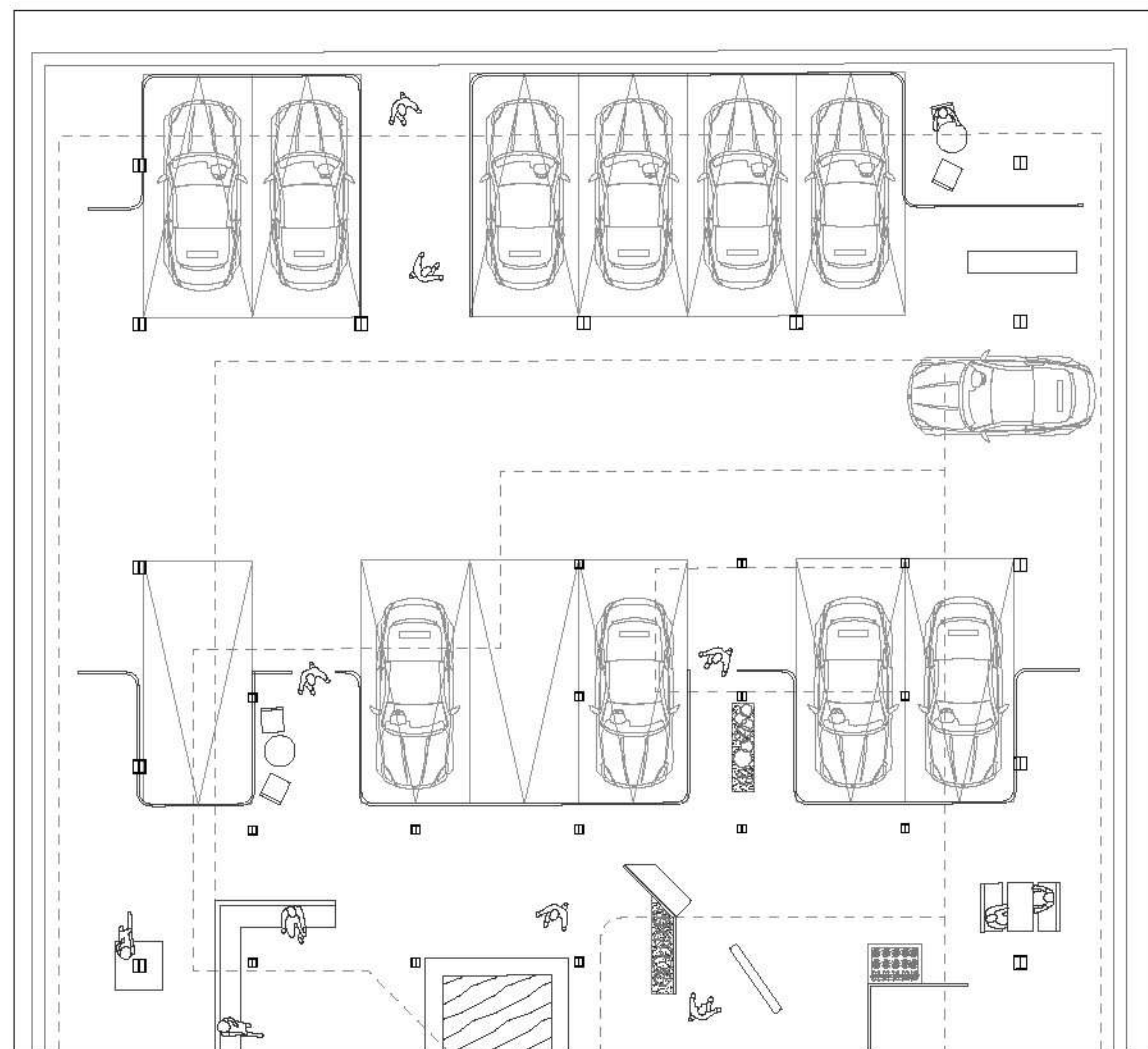




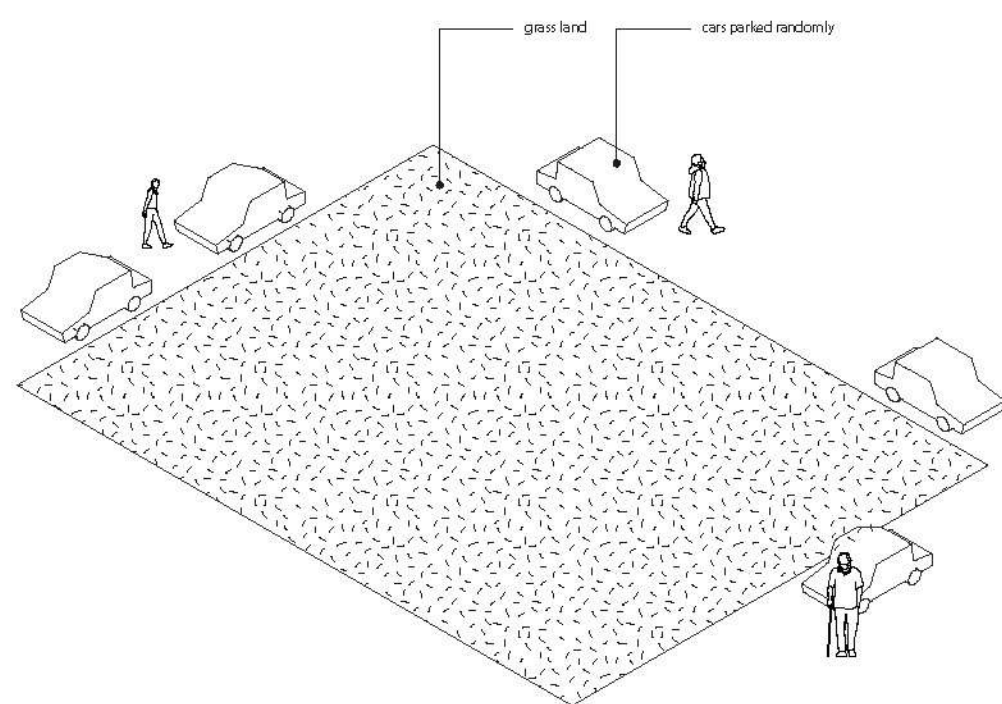


Small territory 07 -
Parking ground



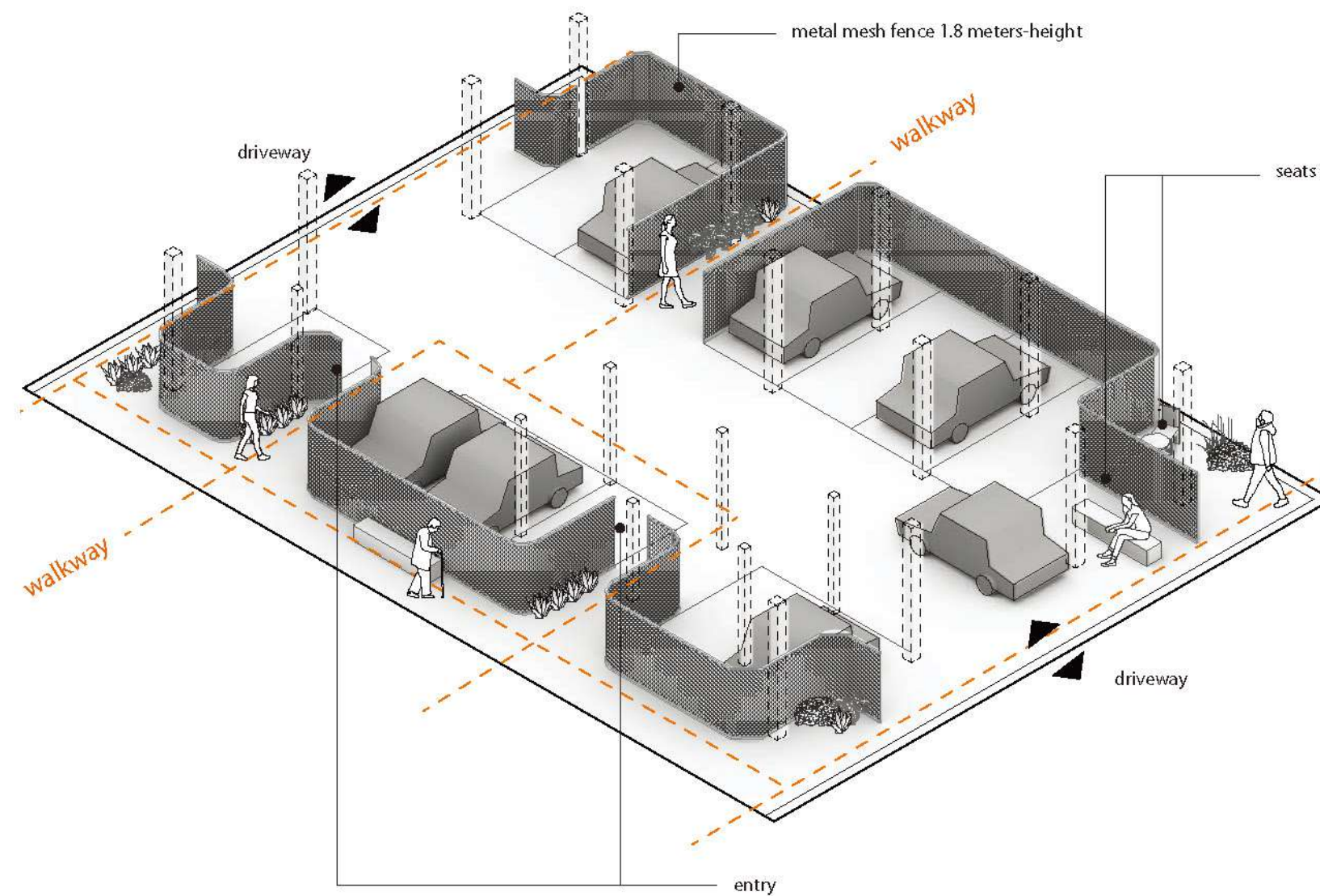


Plan



Existing situation

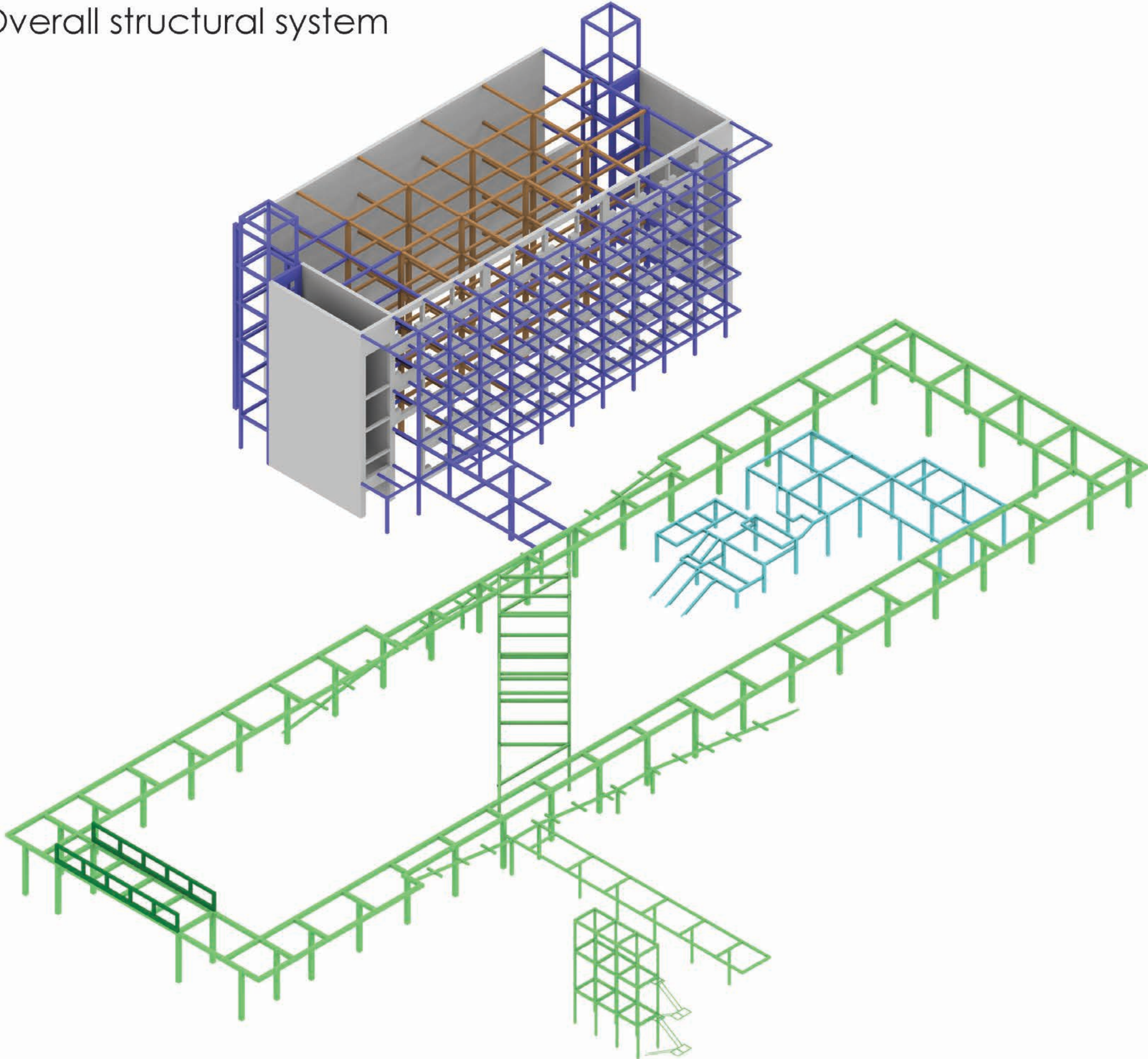
people have to walk on the road beside the cars that parked randomly



Strolling ways with car parking spaces

Transformation - the walkway is interweaved with the parking spaces and divided by the white metal mesh fences

Overall structural system



Existing apartment structure

- precast load-bearing concrete wall
- precast concrete beam and column

New structure after renovation

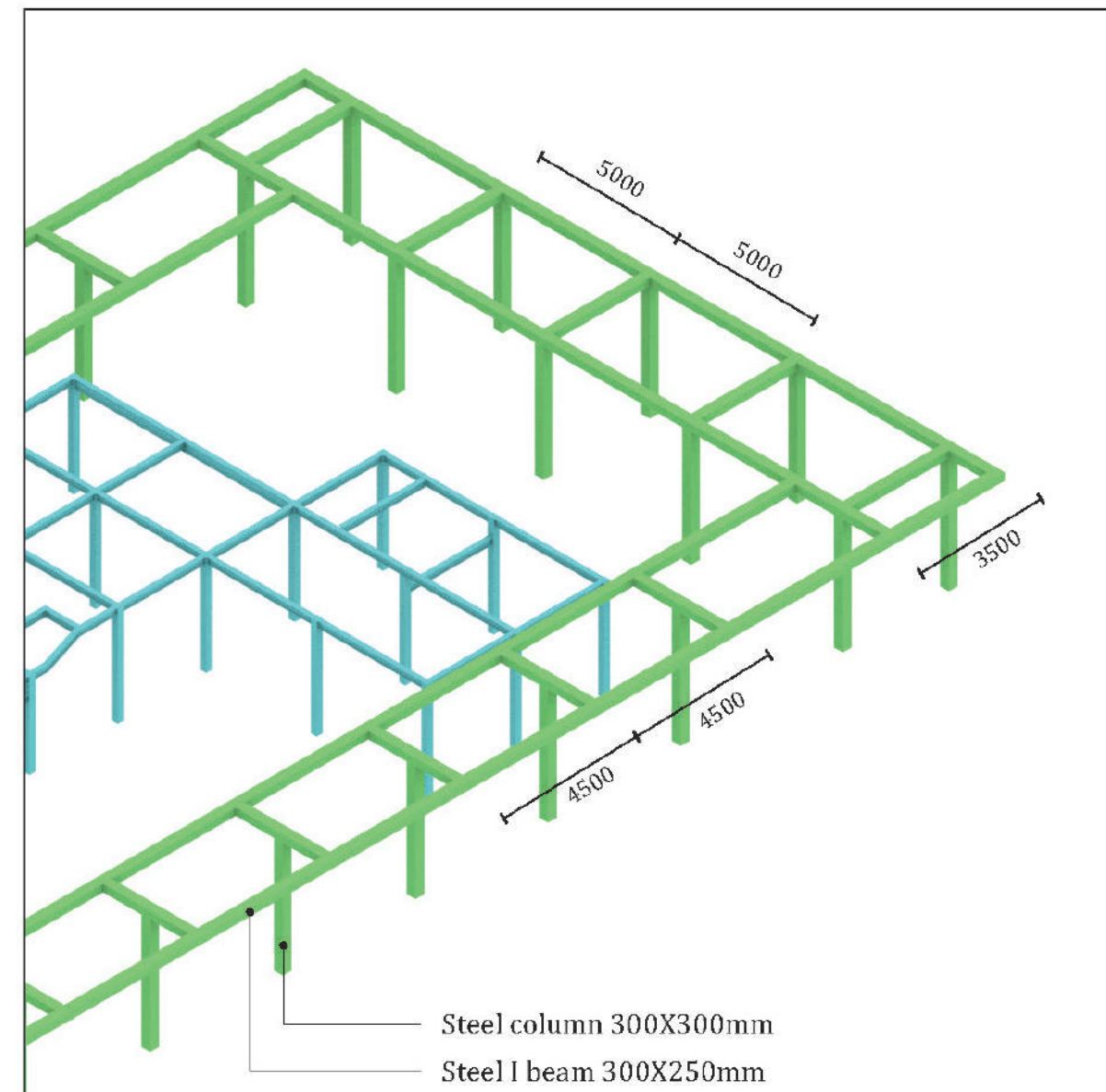
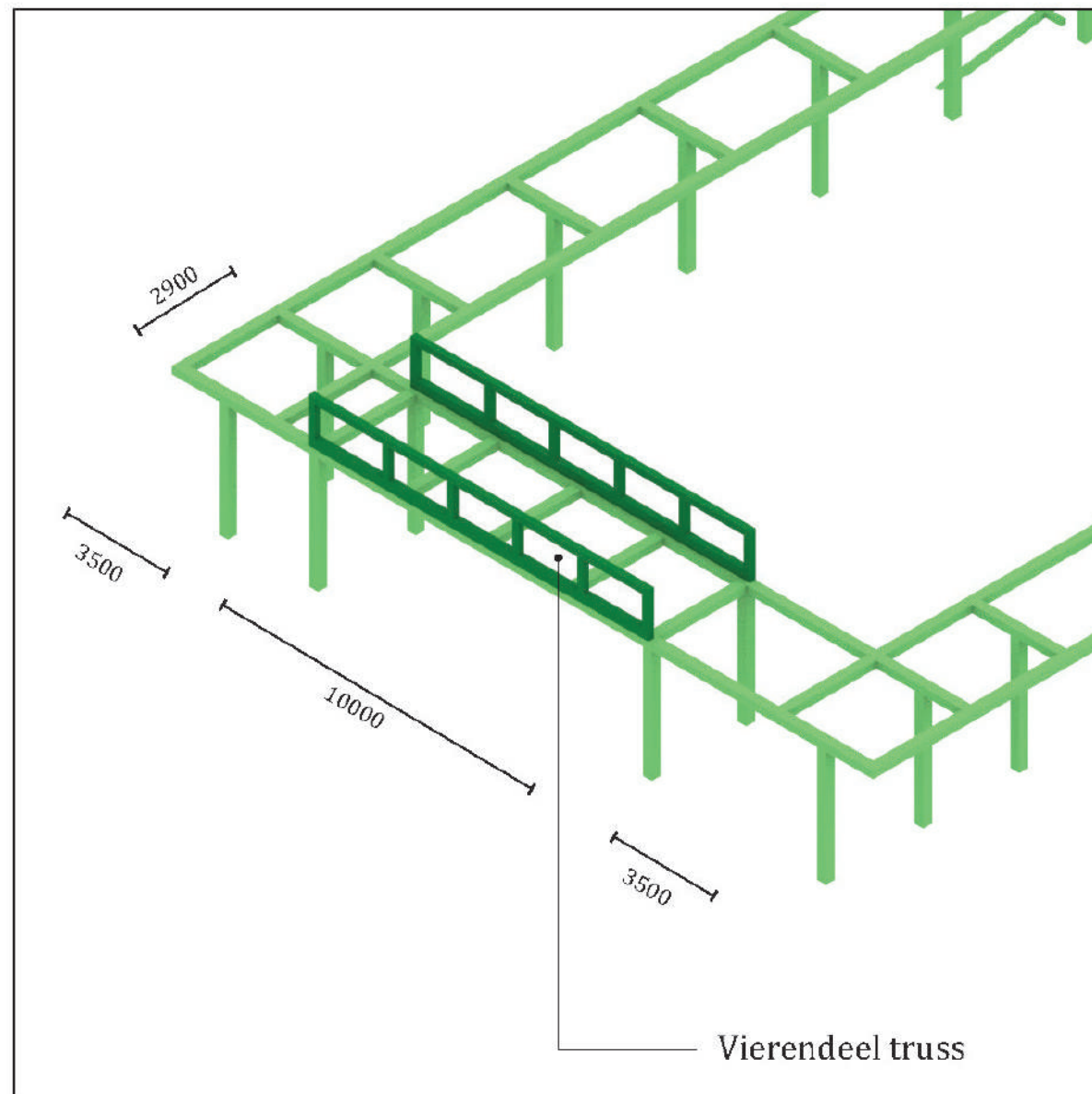
Apartment

- Steel frame system of the balconies and the roof

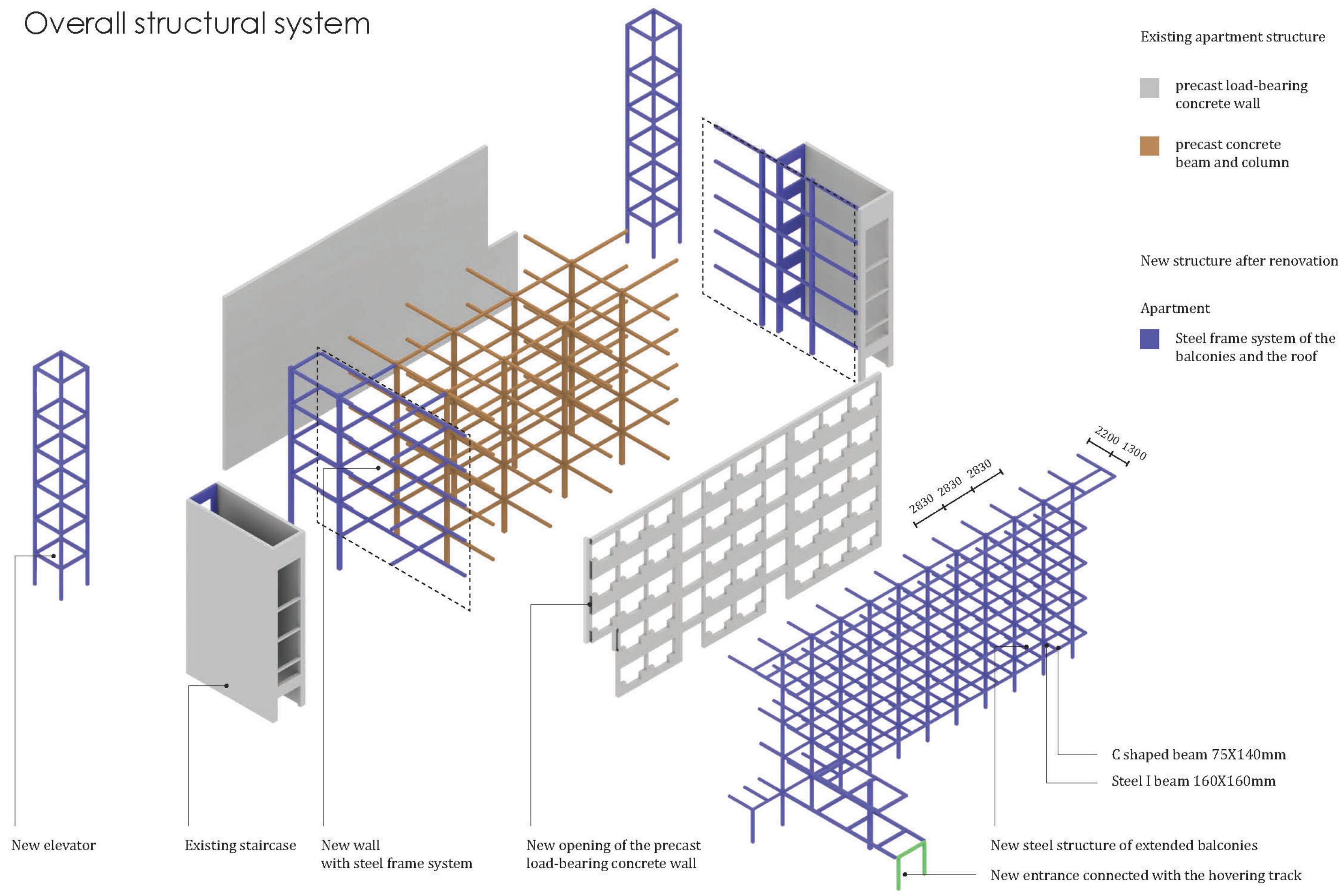
Courtyard

- Steel frame system of the running track, the room pavilion, and the house of courtyard keeper
- Vierendeel truss
- Steel frame system of the big staircase

Overall structural system



Overall structural system



Route - Extended Interior

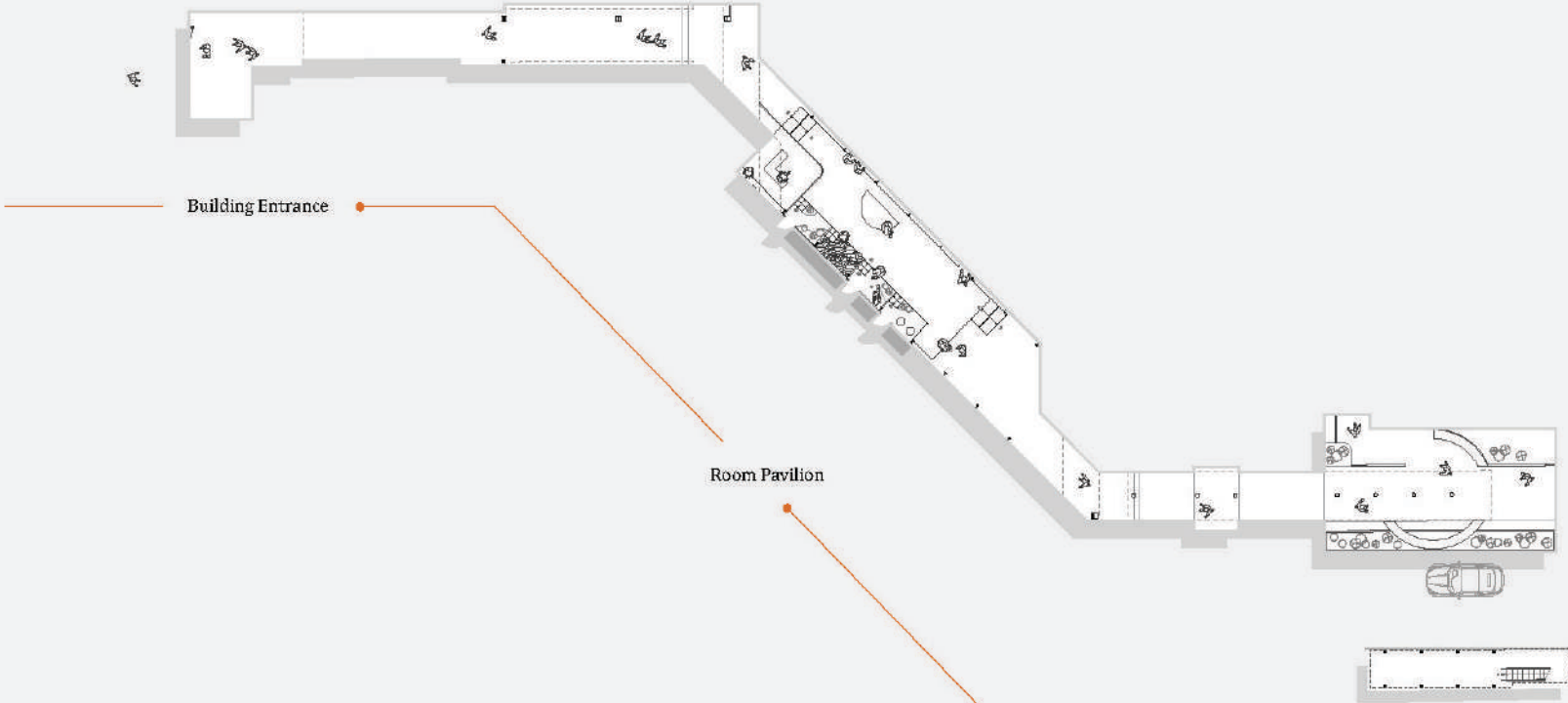
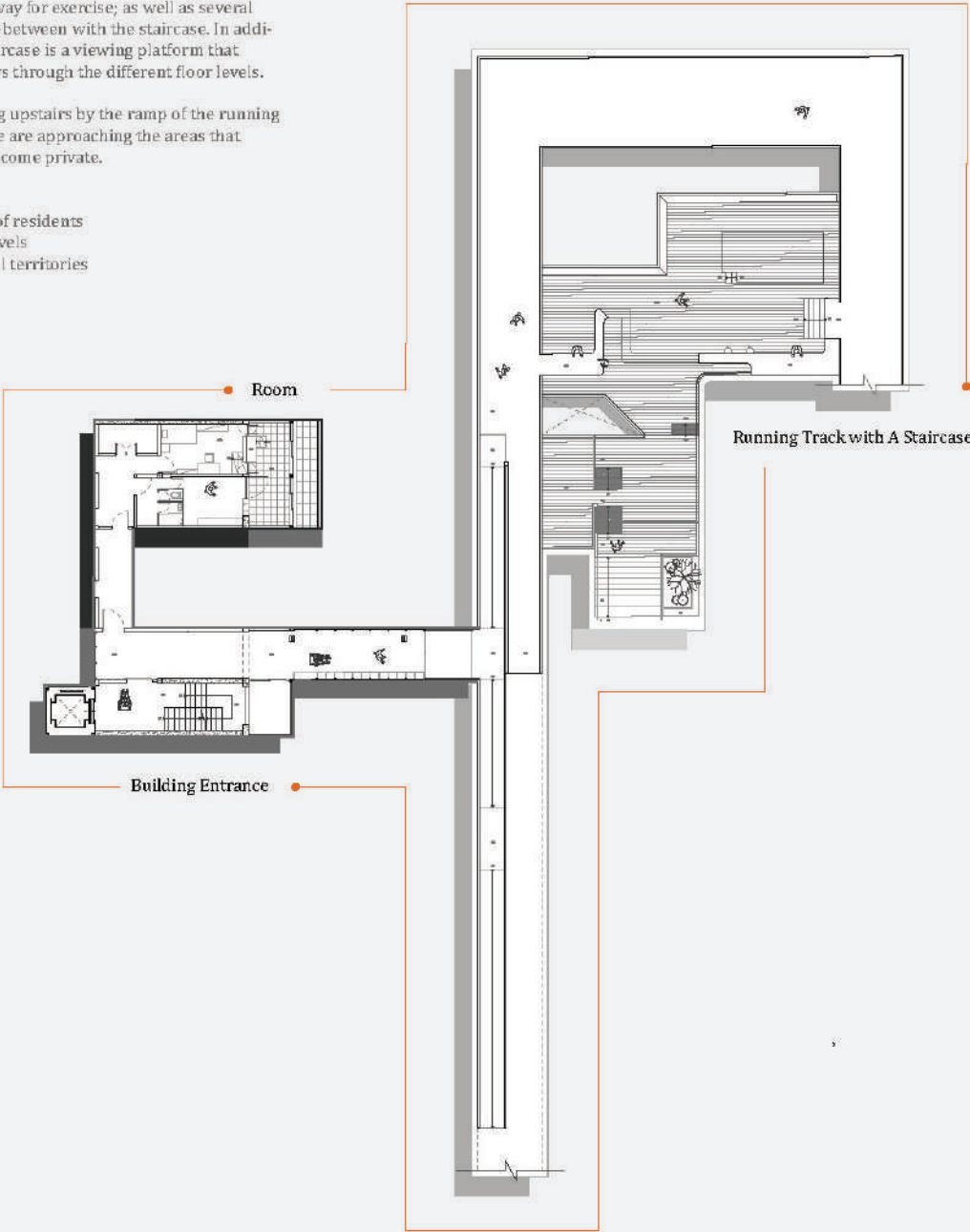
This route refers to the activities of the inhabitants. From the individual's room, the intervention is a renovation plan built on the outside of the building. The Social Balcony and the Extended Balcony (the corridor) provide additional spaces for neighbors to interact. Also, the transformation of the facade allows more sunlight, wind flowing, and wide vision.

Going downstairs, the Building Entrance with storage lockers re-defines the boundary of a home. The idea is related to the act of taking off the coat, which is considered to be the first action we take before entering a home; thus this act allows for the awareness that we have arrived home. If the inhabitants take off their coats at the building entrance, at that moment, they would feel that they have arrived at home. The lockers are the common object in the typical courtyards in Yekaterinburg so, I keep and re-design them as a part of the facade of the entrance, where they are used to put clothings or umbrellas.

After going out from the first floor of the entrance that is linked to the hovering running track. People can meet with others, play with kids, or reading in the yard. The track provides a linear walkway for exercise; as well as several functions in-between with the staircase. In addition, the staircase is a viewing platform that creates views through the different floor levels.

Finally, going upstairs by the ramp of the running track, people are approaching the areas that gradually become private.

- A journey of residents
- multiple levels
- Three small territories



Part2 Routes - Design Intervention Collection

Route - Public Passage

The passage is a type with dual spatial properties, involves both indoor and outdoor atmosphere because it has a high roof and an open walkway. It is also a high door if you only look at the facade. This passage is constructed by the three small territories, Building entrance, Room pavilion, and Canopy entrance. Each of the small territories characterizes the ambience of the residential interior; functions: small activities, and acts such as eating, talking, or seating.

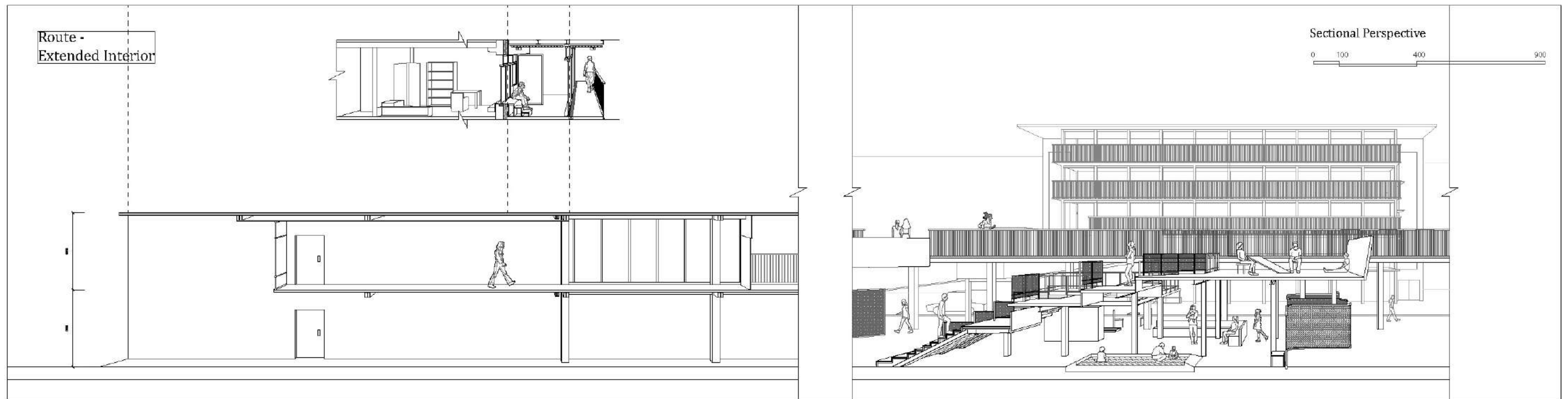
Also, it serves as a link to the two streets next to the block. The scene of walking for pedestrians is transformed from a conventional (regular) way to a free way. There are various possibilities after the people access the courtyard. Hence, in my view, the passage can be regarded as an extended door (city door) in the courtyard. The conventional concept of doors is challenged and creates a new walking experience within the urban scale.

- An exterior with an interior atmosphere
- Threshold of the courtyard
- Three small territories

Route 01 -
Extended Interior

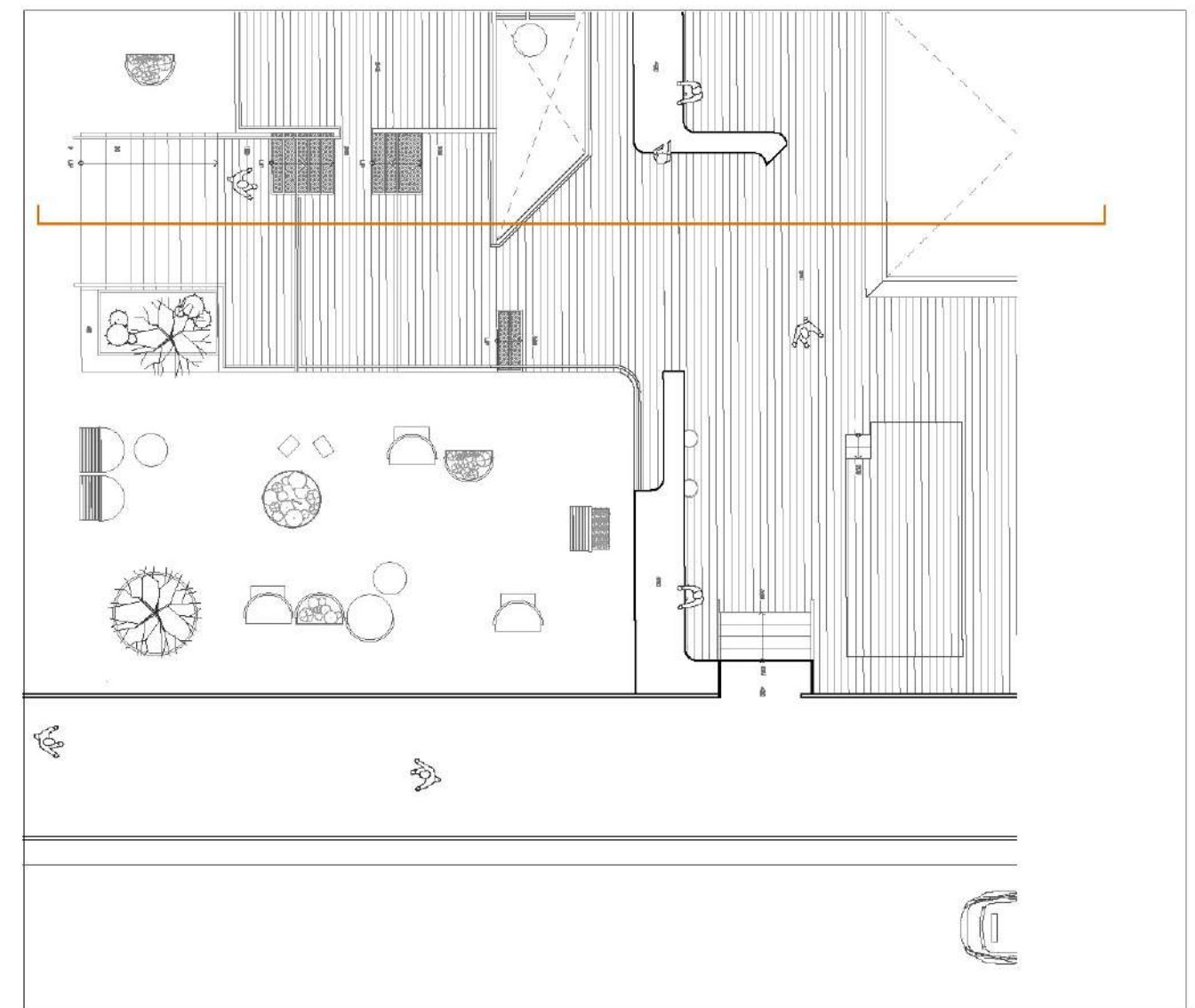
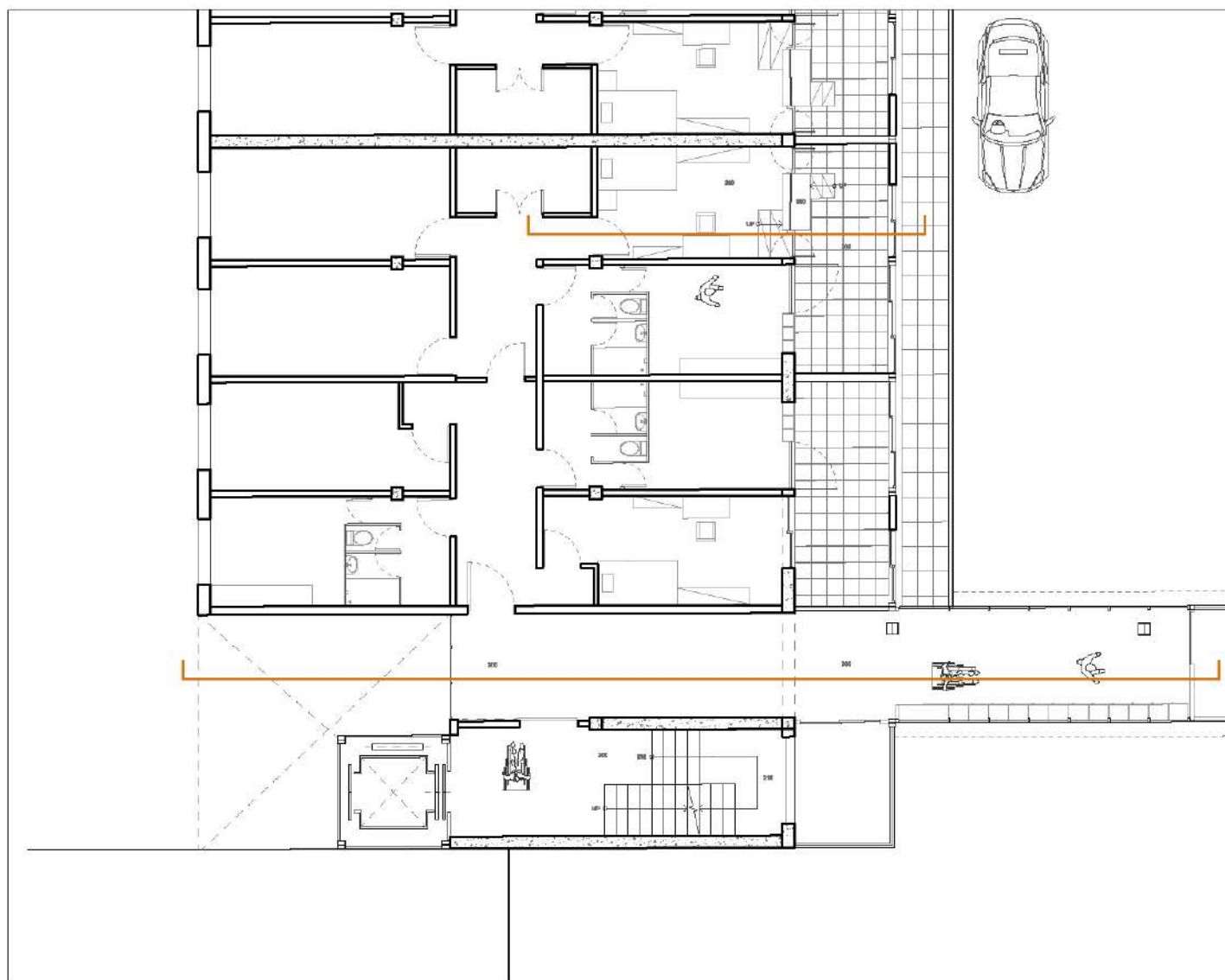
- A journey of residents
- Multiple levels
- Three small territories

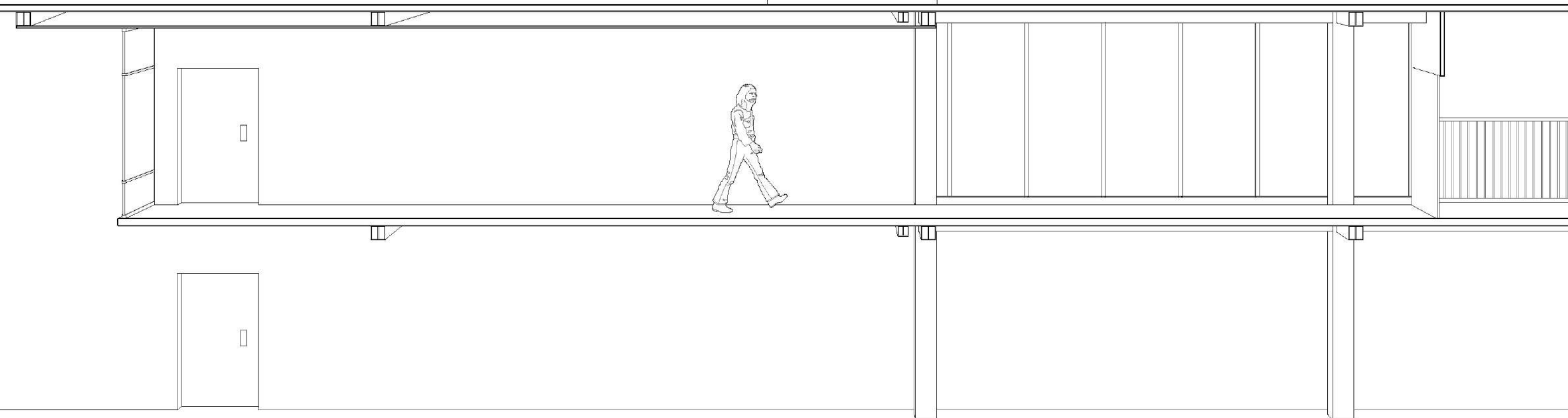
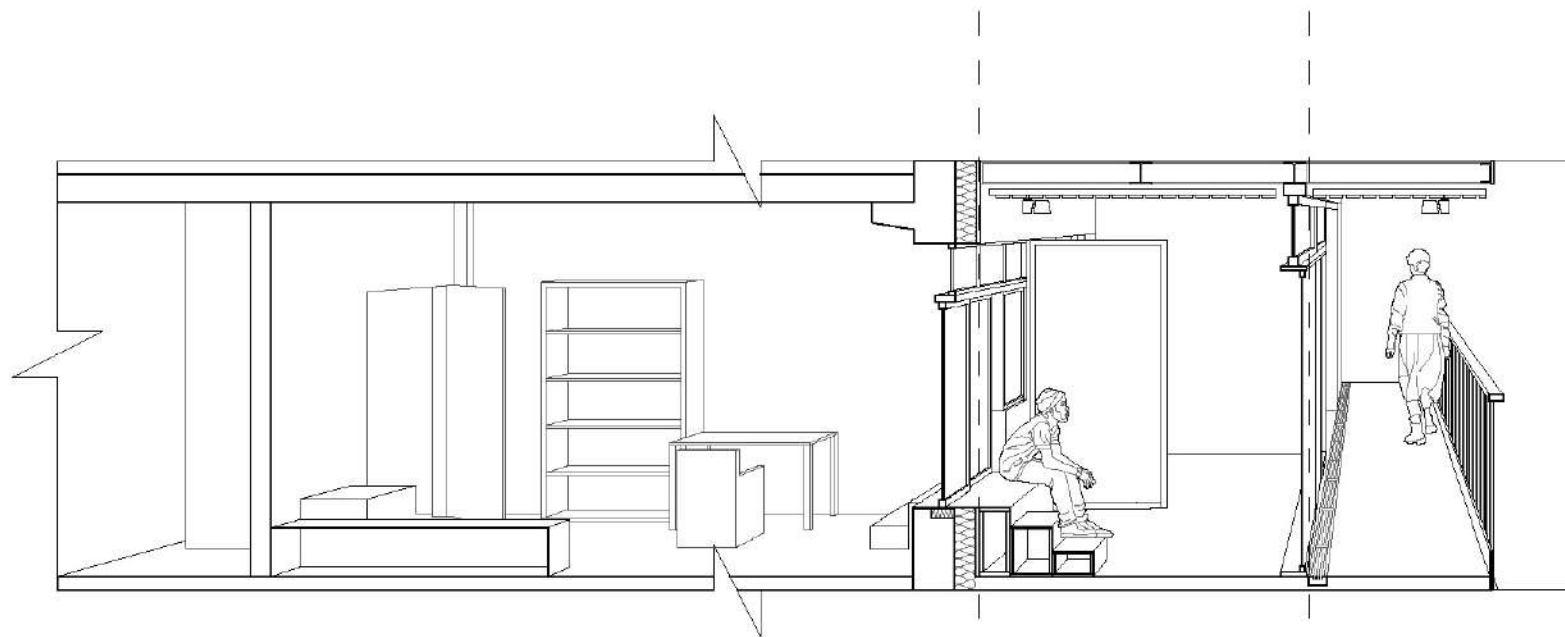


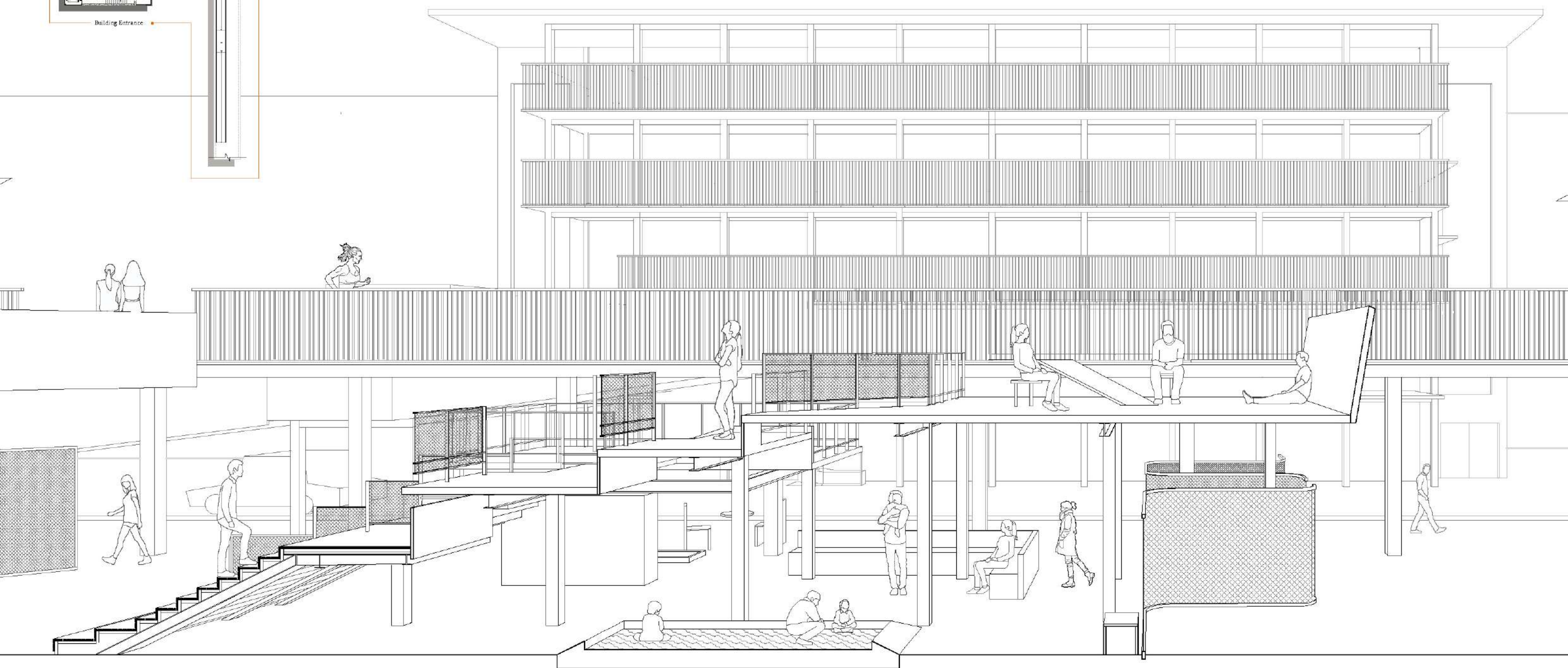
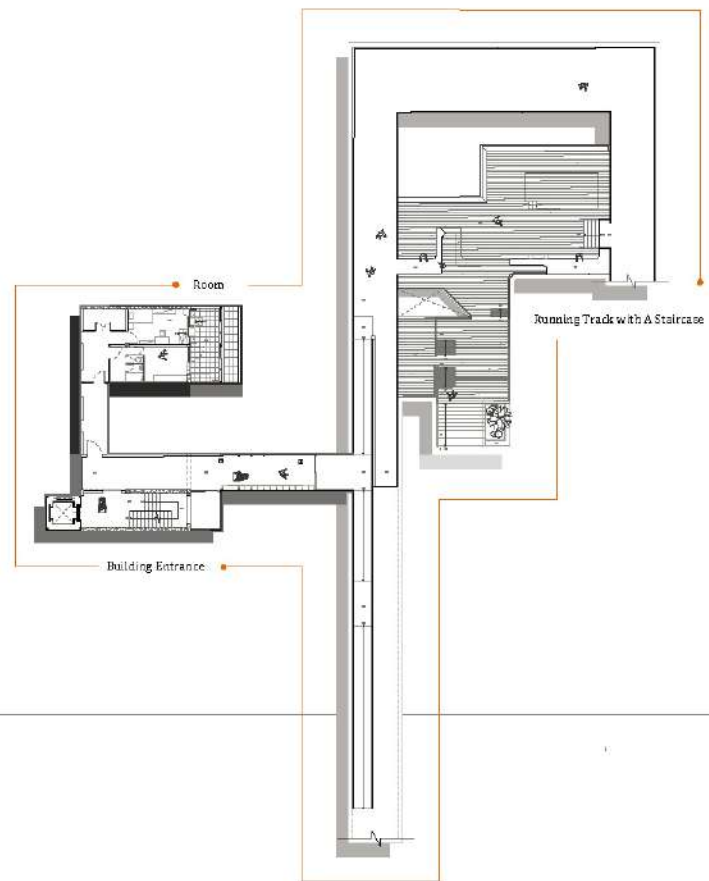


Room
Building entrance

Running track with a staircase



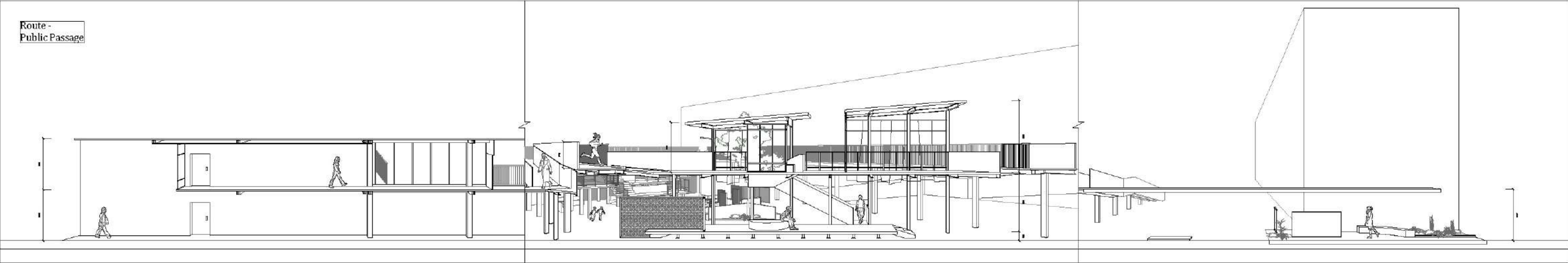




Route 02 -
Public Passage

- An exterior with an interior atmosphere
- Threshold of the courtyard
- Three small territories

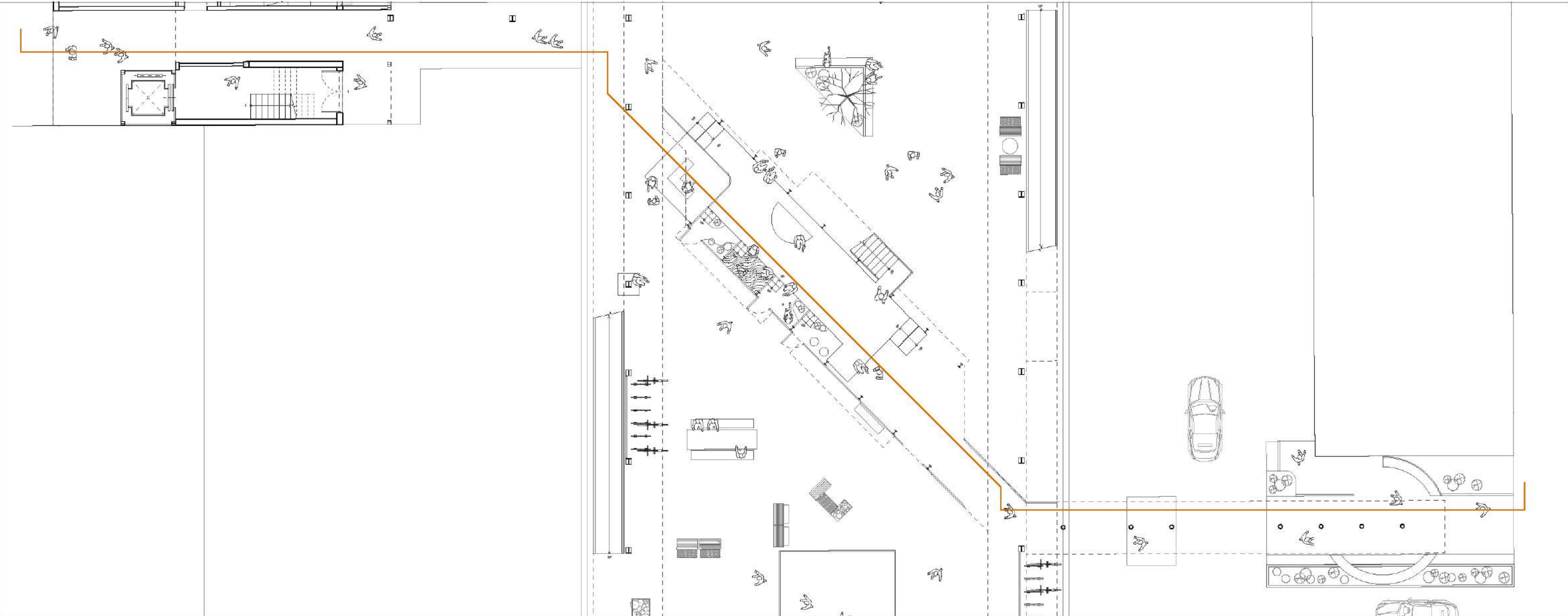




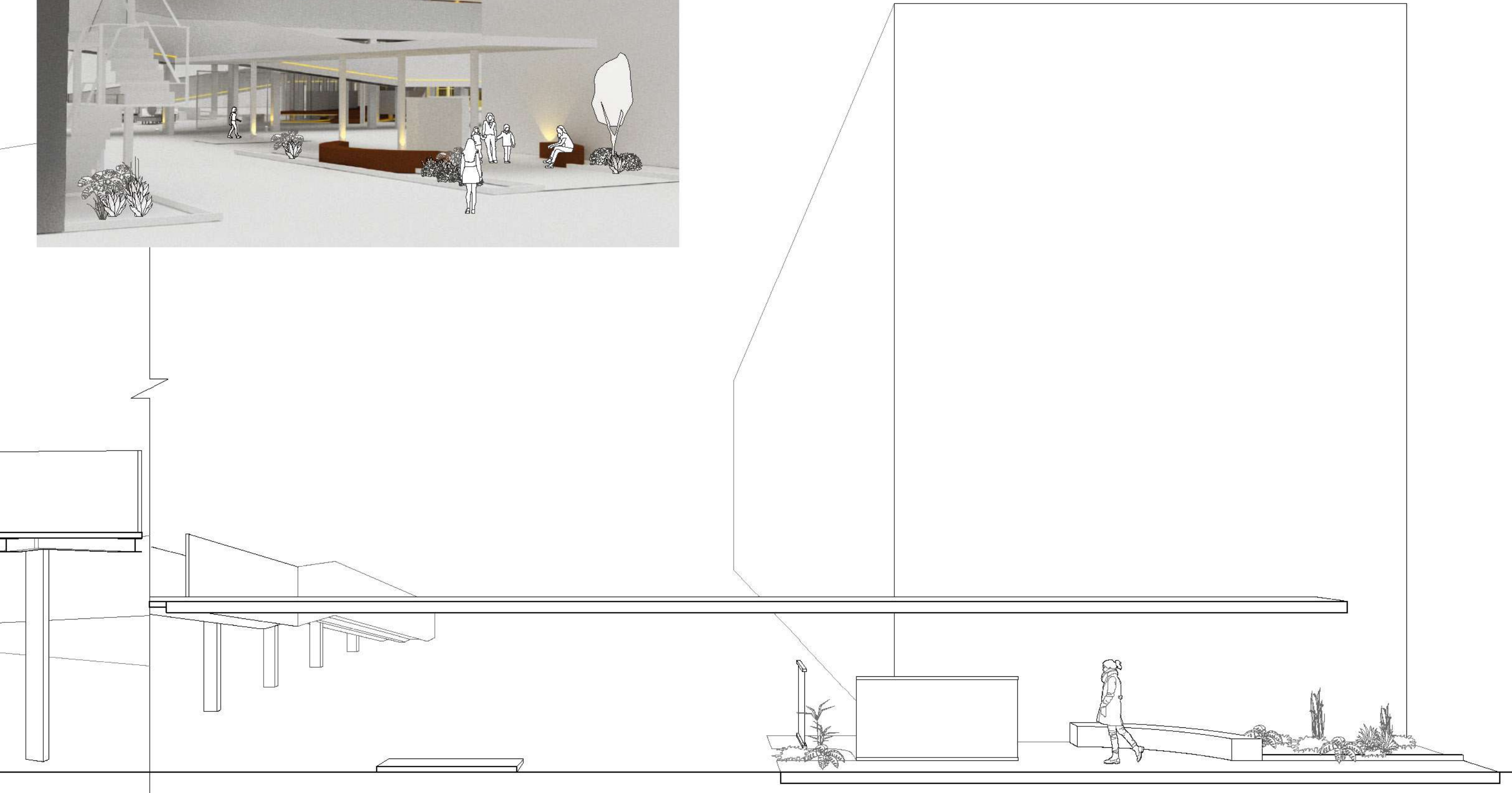
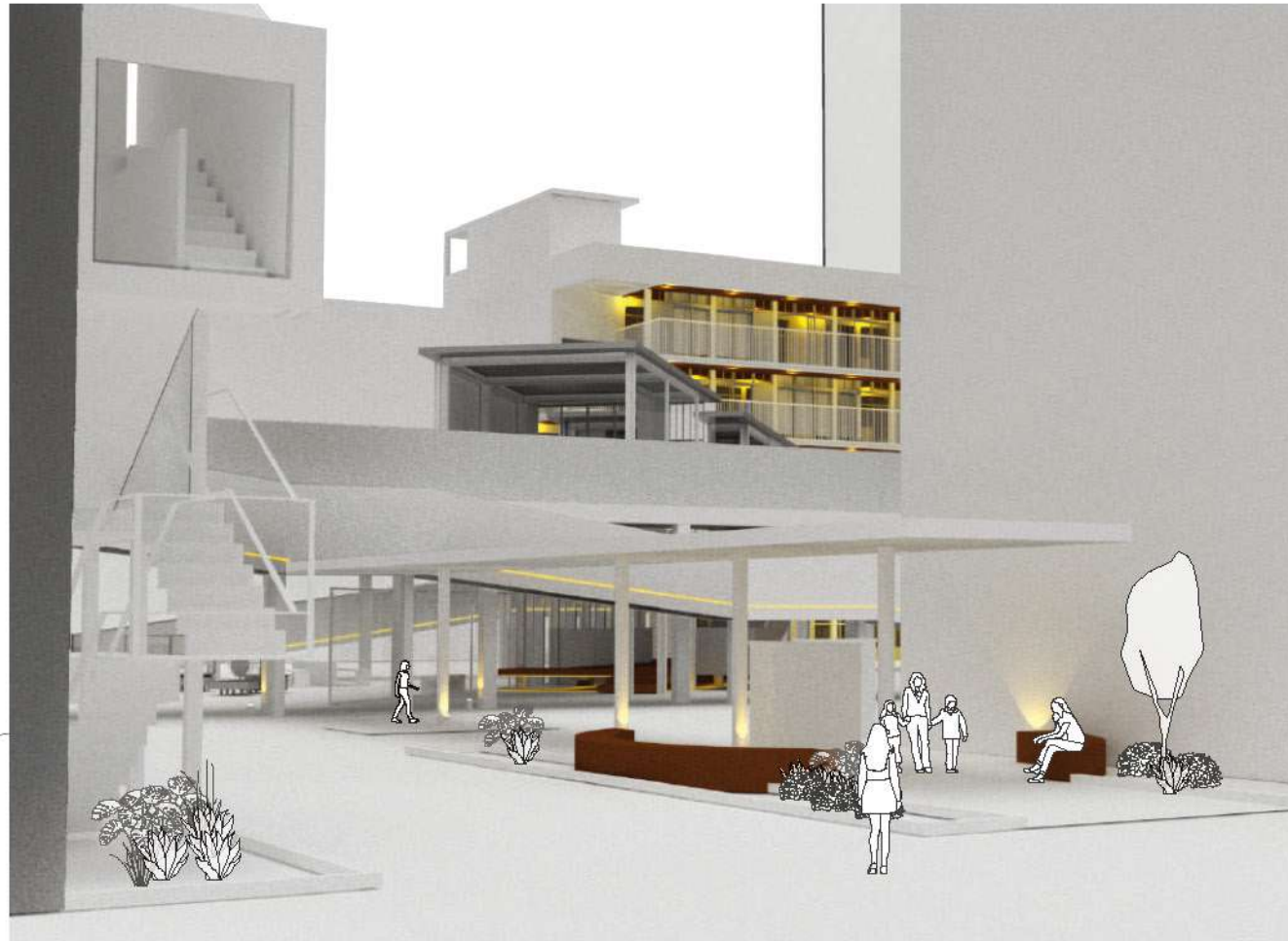
building entrance

room pavilion

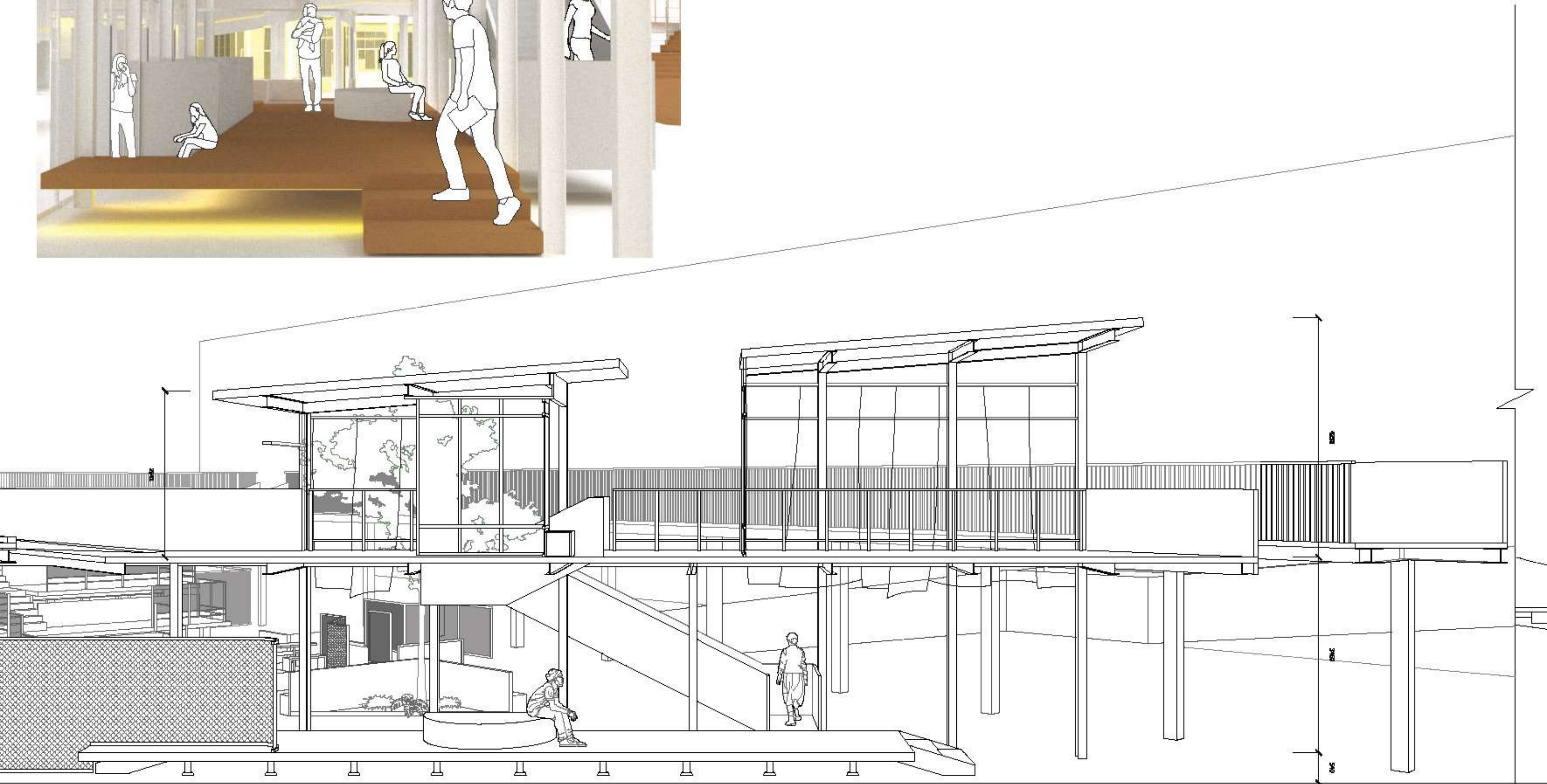
canopy entrance



Canopy entrance



Room pavilion



Room pavilion

