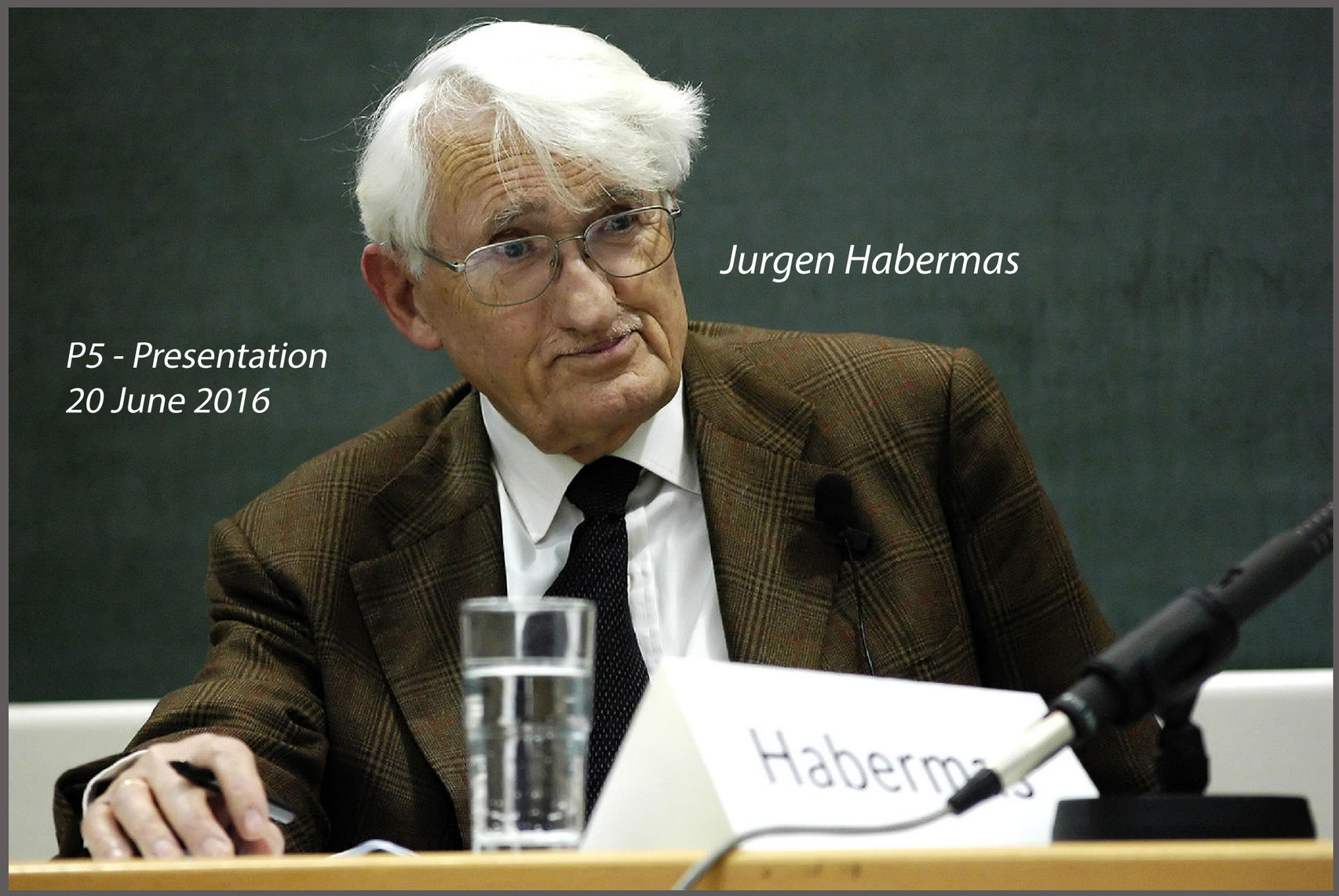
Architectural Translation of Public Sphere

The Stimulation of Meaningful Encounters between Strangers

Mart van Uden - 1503634

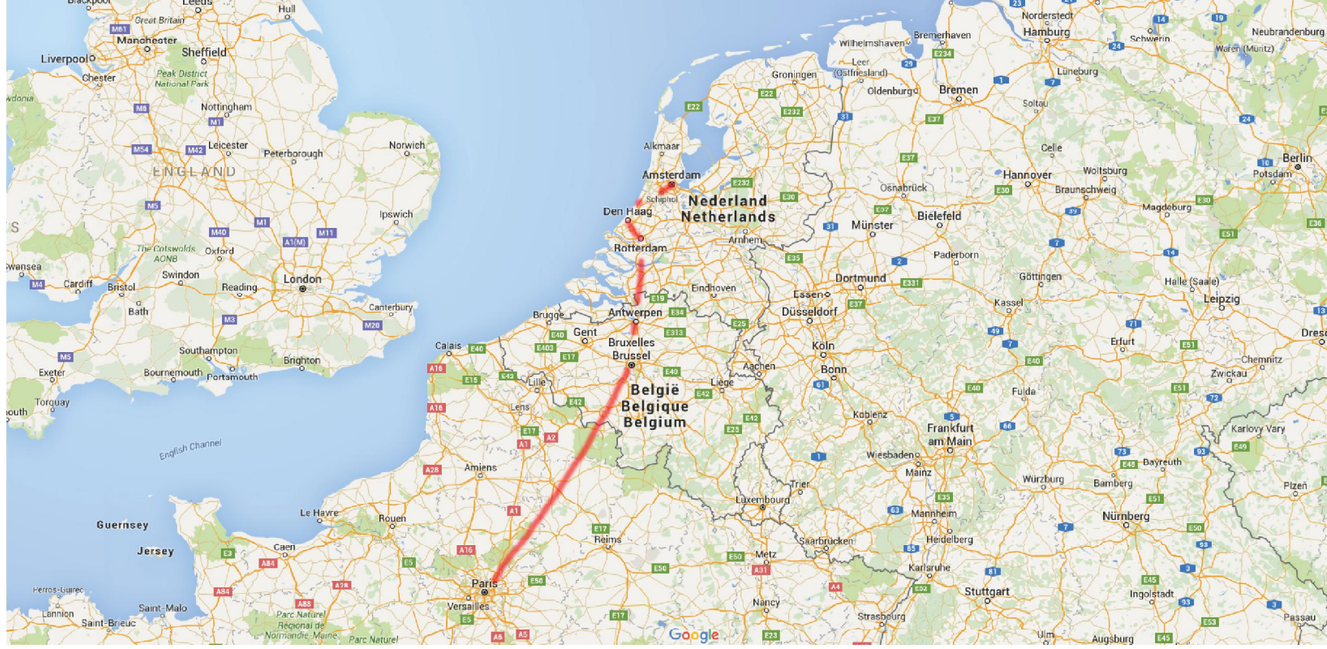


Tutors:
Olindo Caso, Gregory Bracken, Hubert van der Meel

Overview

Location

Den Haag HS



Location

HET BEGIN VA
IE'S MOOIS
HALL GOED DAT
JE ER BY!

Abanoglu proudly presents Perron 10.
The largest food street in The Netherlands.
ABANOĞLU
MADO

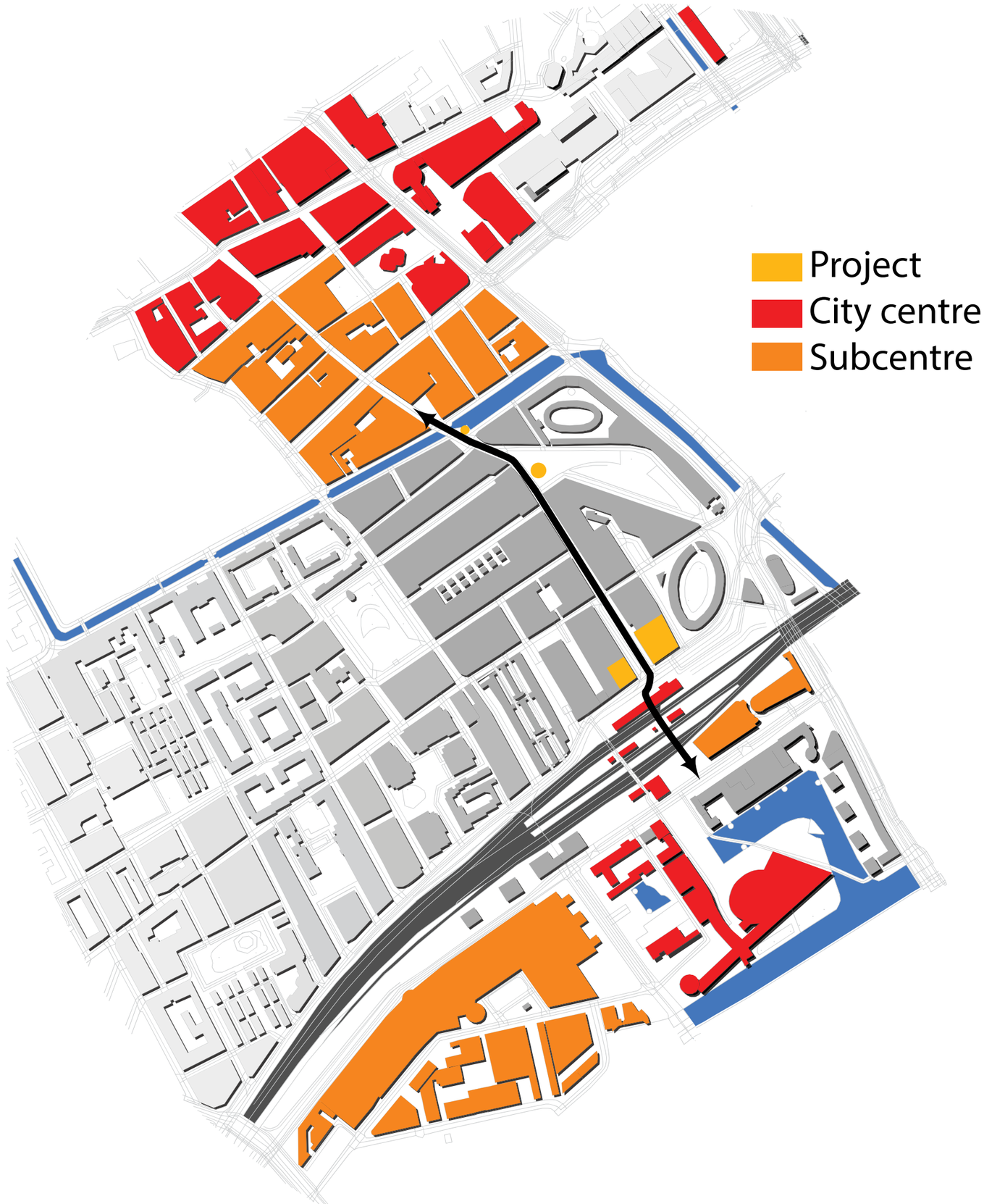
Location

- 500 m radius

Location

- Mingling of people

Connecting Two Centres



Jurgen Habermas (1929 - ...)

Strukturwandel der Öffentlichkeit

The sphere of private people who join together to form a 'public'.

Public use of reason in rational-critical debate, which checked domination by the state and the illegitimate use of power.

Jurgen Habermas (1989)

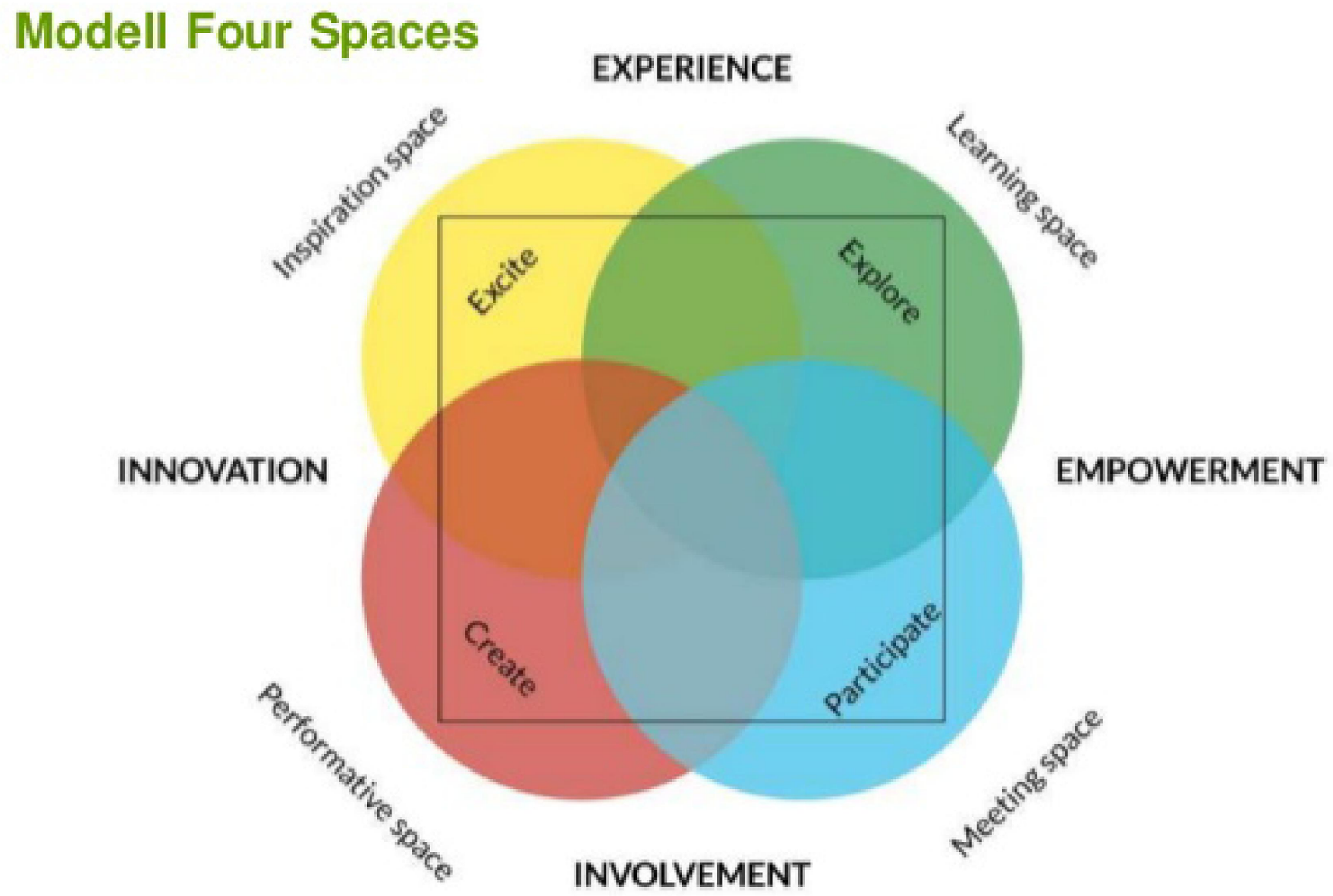
Fall of Public Space

Freedom plaza - Washington DC

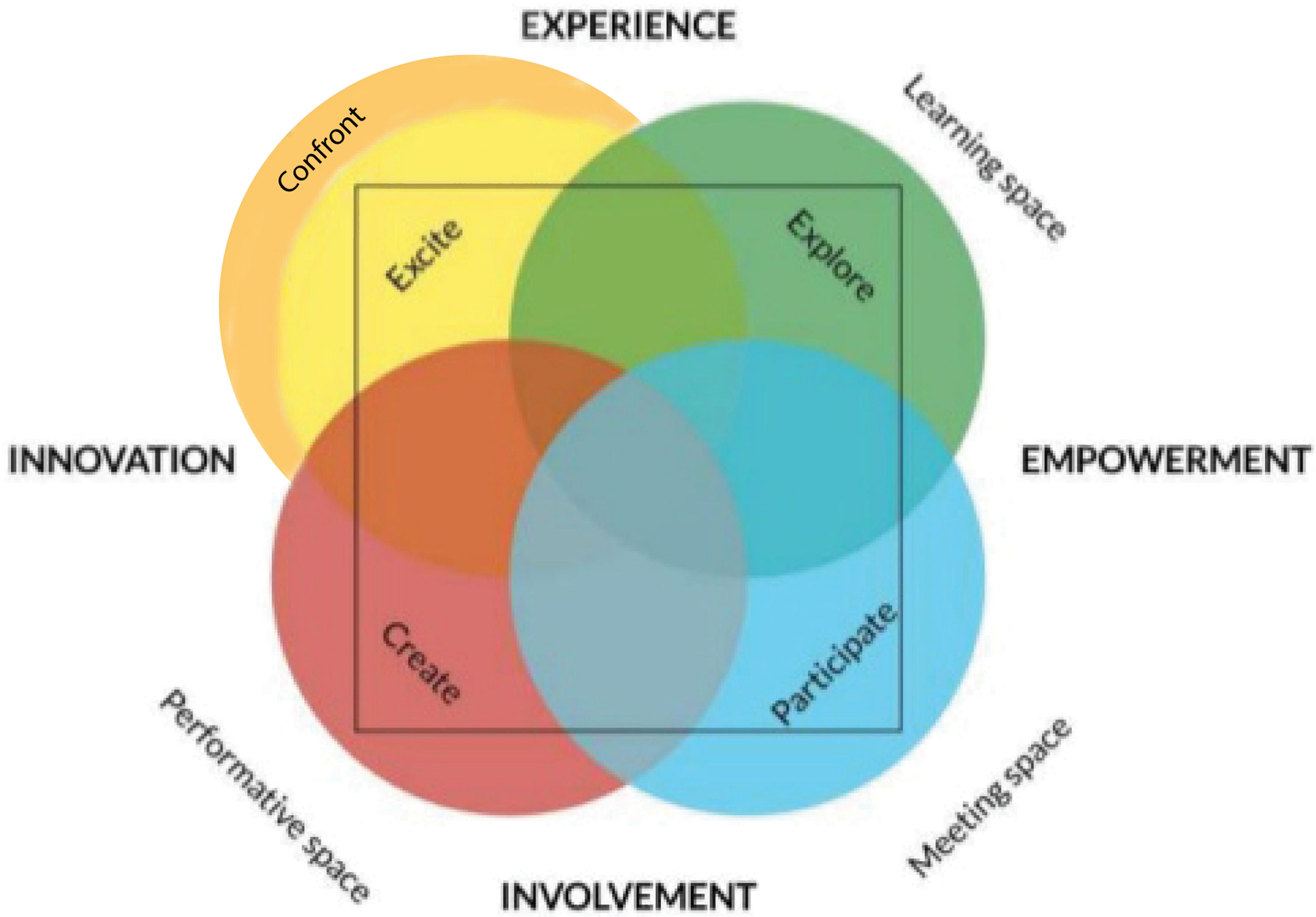
Sight from train station

Sight towards train station

Design function



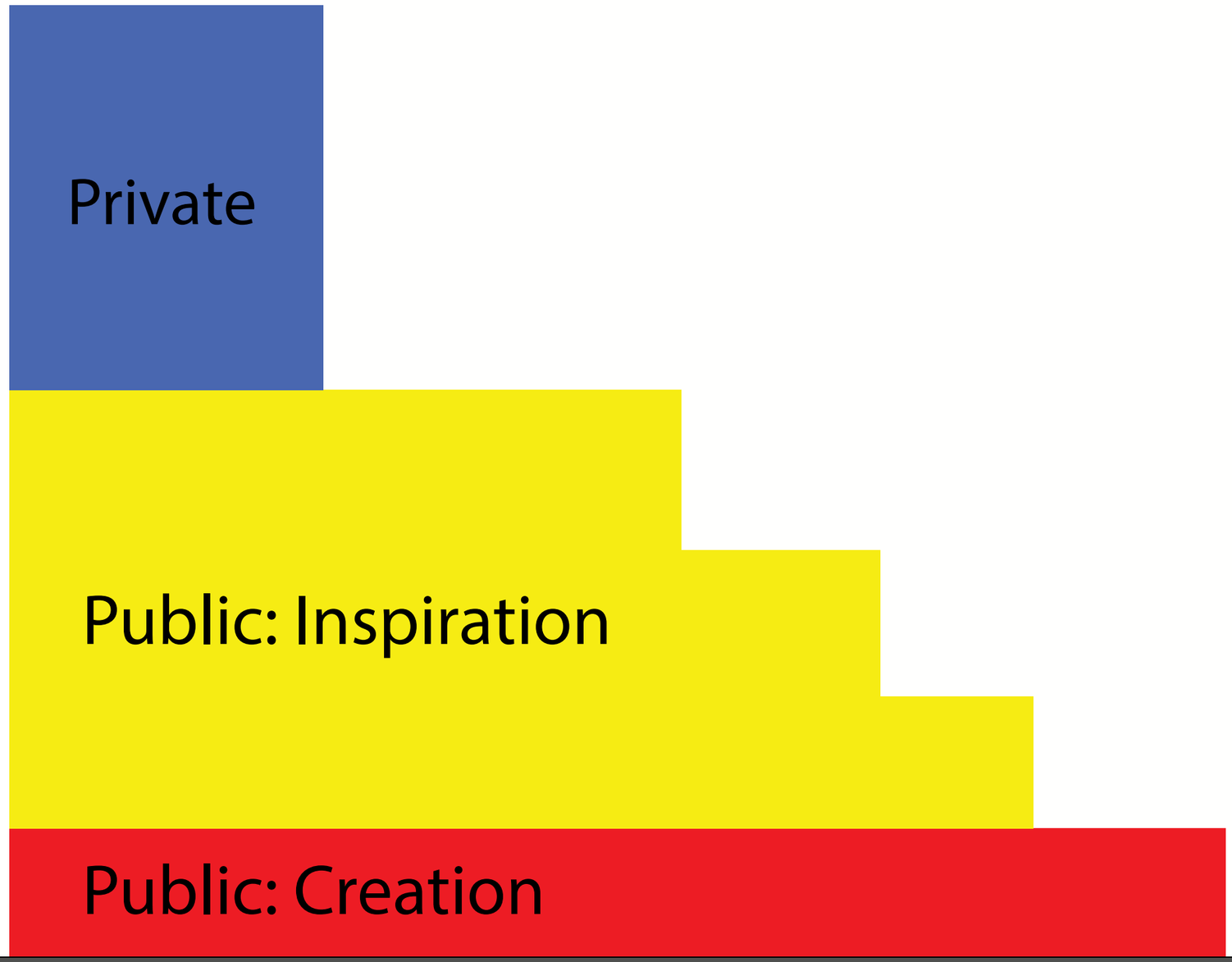
Design function



Overview

Focus of project

Functions



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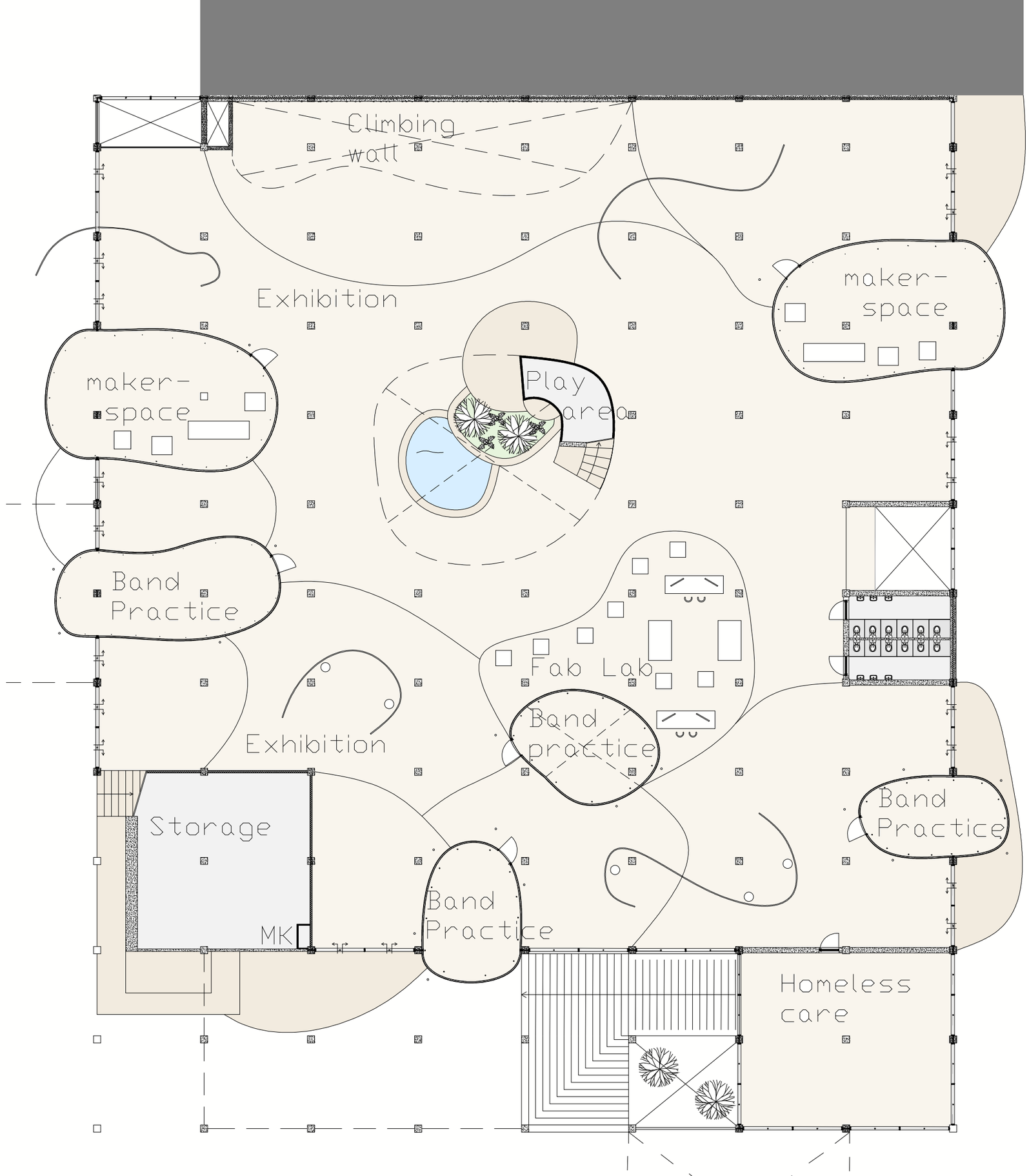
N


Climbing
wall
Exhibition
maker-
space
maker-
space
Play
area
Band
Practice
Fab Lab
Band
practice
Exhibition
Storage
MK
Band
Practice
Band
Practice
Homeless
care

+00

N

Climbing wall

Exhibition

maker-space

maker-space

Play area

Band Practice

Fab Lab

Band practice

Exhibition

Storage

MK

Band Practice

Band Practice

Homeless care

Conditions: accessibility

Accessibility

Meaning

I) Physical accessibility

Accessible by everyone (including wheelchairs)
At least 5% seating with back

J) Visual accessibility

Not higher than 92 cm
Not completely blocked

K) Symbolic accessibility

No elements that exclude groups of people such as:
- Guards
- Golden doors
- Racial/sexual elements

F) Meaning

Connection between place, personal life and larger whole
such as:
- One self
- City (block)
- Country
- World(s)
-Time(s)

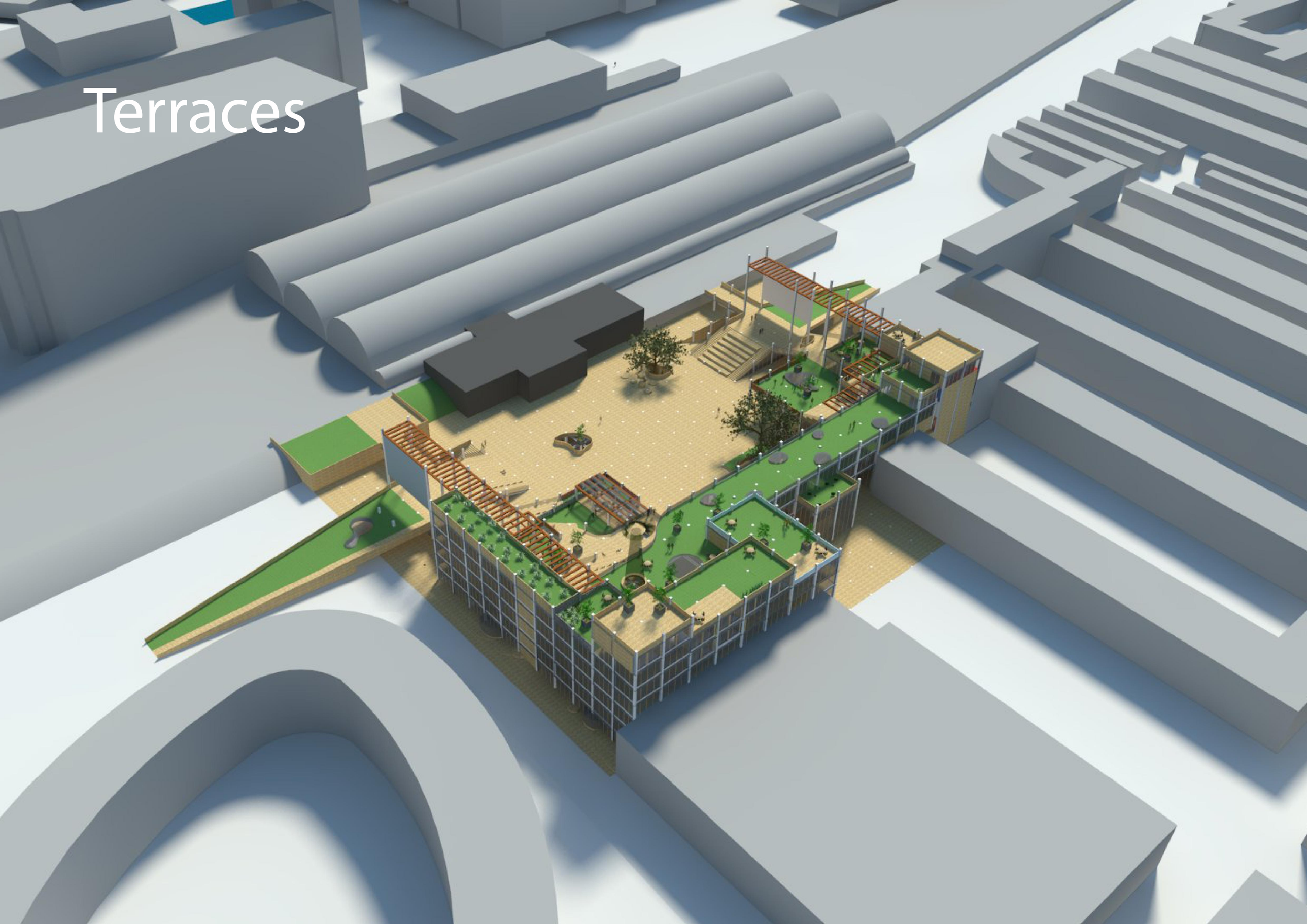
Reference

- Terraces: seeing and be seen

Forecourt Fountain - Portland , Oregon

Carr, Francis, Rivlin, Stone (1992)

Terraces



Terraces

Design tools for gathering

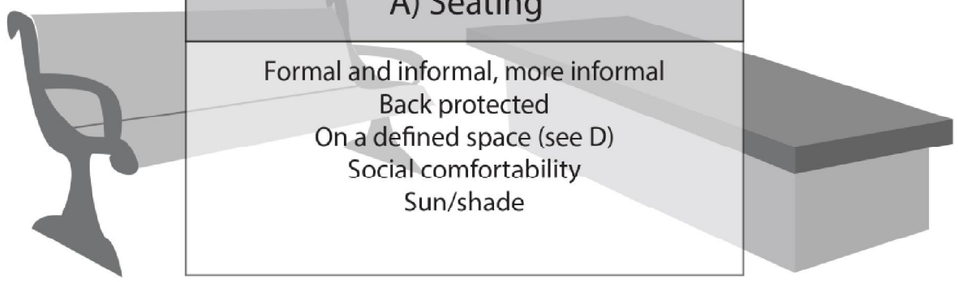
Priority 1
must

Priority 2
should

With as many physical elements as possible

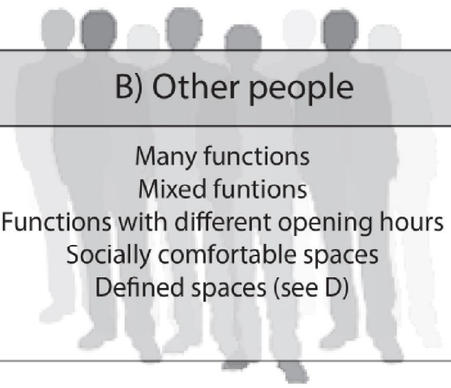
Preferably providing

A) Seating



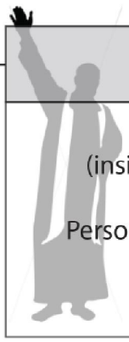
Formal and informal, more informal
Back protected
On a defined space (see D)
Social comfortability
Sun/shade

B) Other people



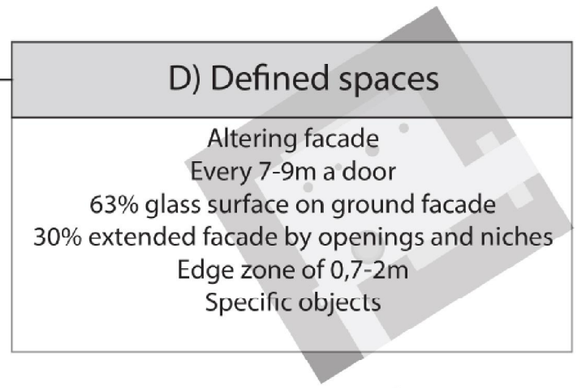
Many functions
Mixed funtions
Functions with different opening hours
Socially comfortable spaces
Defined spaces (see D)

C) Public figures



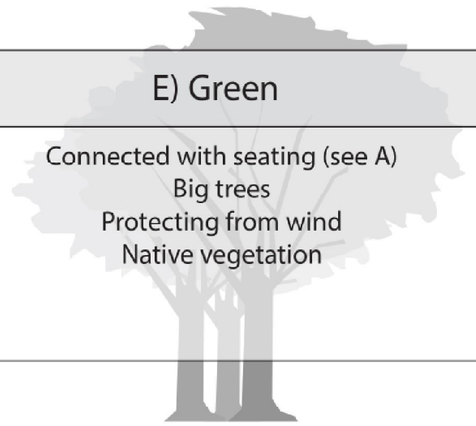
Outside responsibilities
(inside responsibilities are optional)
Function visible
Personal gain in well functioning space

D) Defined spaces



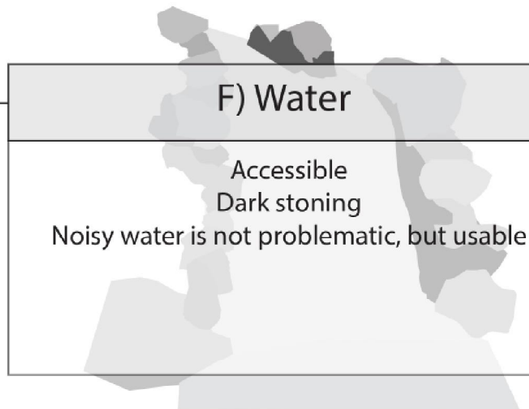
Altering facade
Every 7-9m a door
63% glass surface on ground facade
30% extended facade by openings and niches
Edge zone of 0,7-2m
Specific objects

E) Green



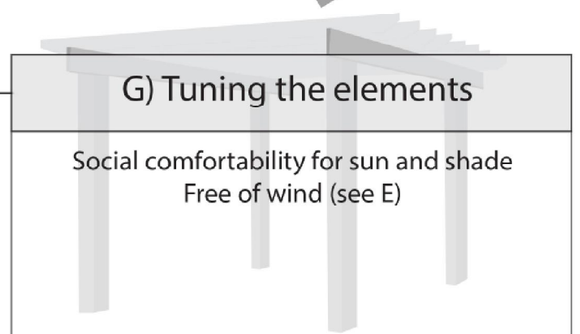
Connected with seating (see A)
Big trees
Protecting from wind
Native vegetation

F) Water



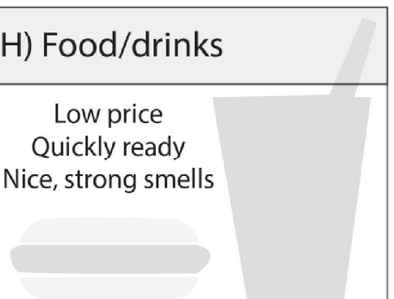
Accessible
Dark stoning
Noisy water is not problematic, but usable

G) Tuning the elements



Social comfortability for sun and shade
Free of wind (see E)

H) Food/drinks



Low price
Quickly ready
Nice, strong smells

Seating

- Defined spaces
- Protected back
- Formal and informal
- Socially comfortable

Temple Quarter - Bristol

William H. Whyte (1980)
Henry Shaftoe (2008)
Jan Gehl (2011)

Seating

Other people

- Variety in functions
- Socially comfortable spaces
- Defined spaces

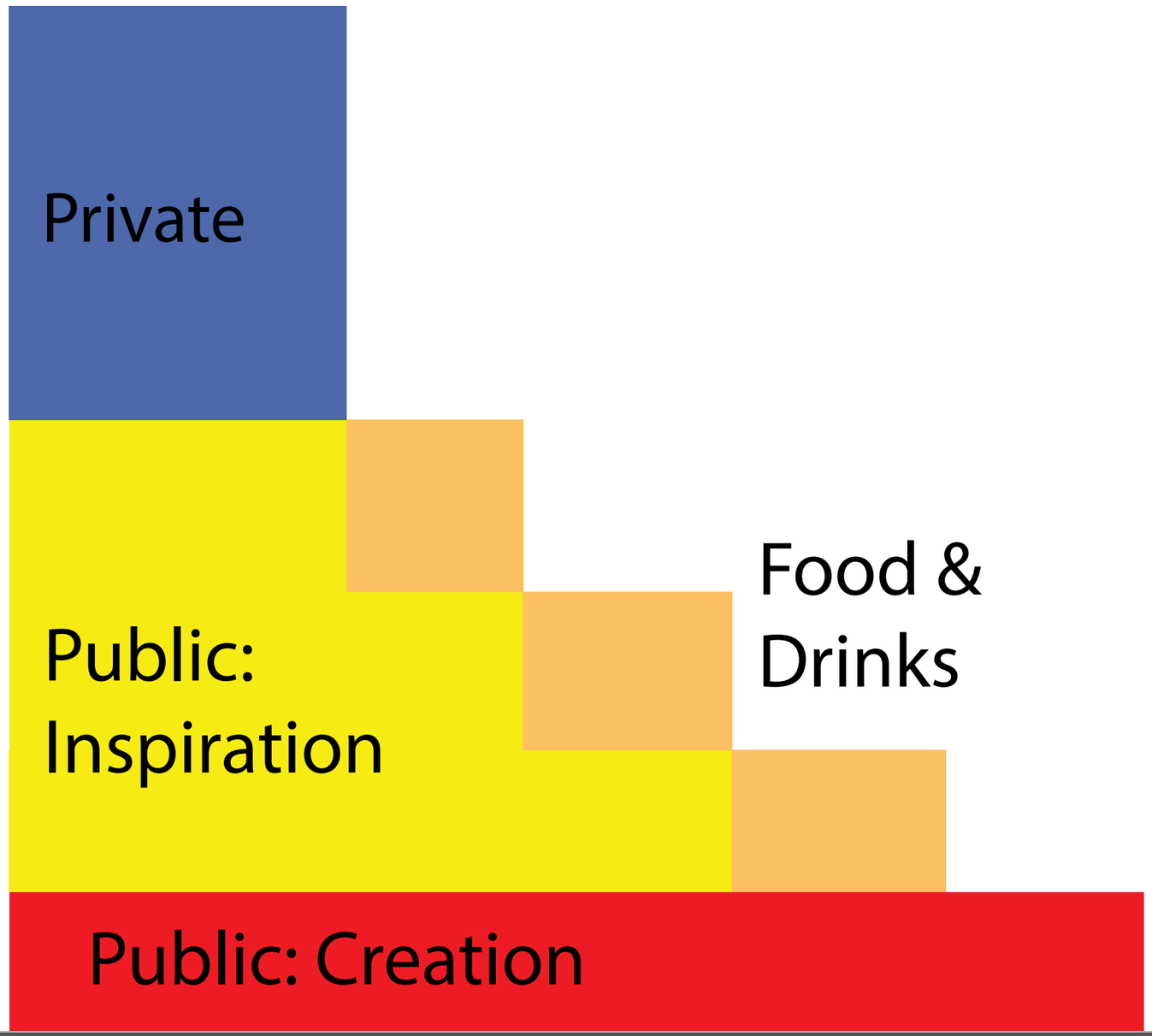
Forecourt Fountain - Portland , Oregon

Carr, Francis, Rivlin, Stone (1992)

Other people

Other people

Food and drinking place



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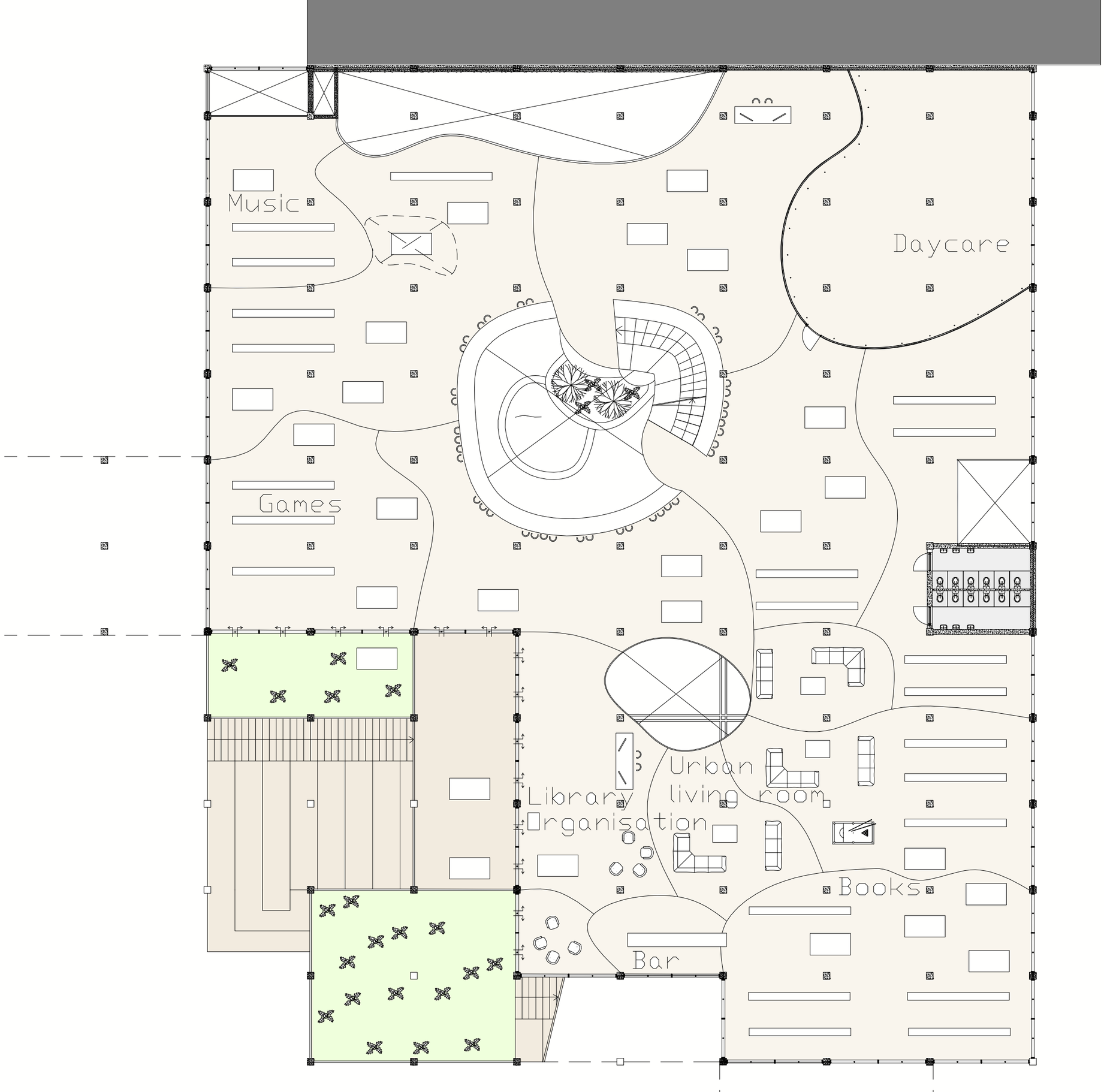
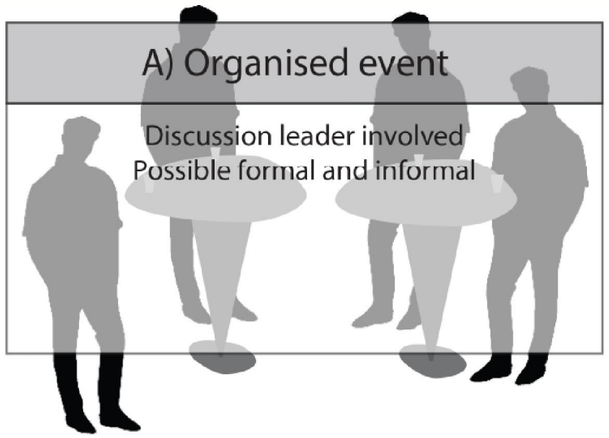

Music
Daycare
Games
Library
Organisation
Urban
living room
Books
Bar

Stimulating conversation:

Usable by themselves

Usable with social distance

A) Organised event



Discussion leader involved
Possible formal and informal

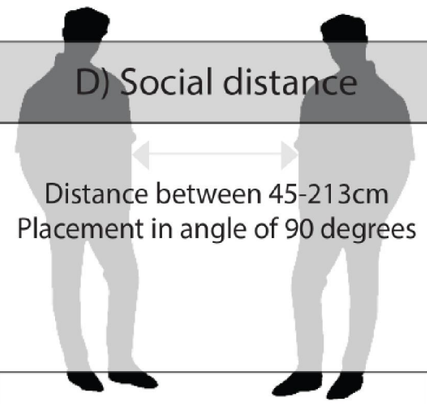
B) Open persons

Outside responsibilities
(inside responsibilities are optional)
Function visible
Personal gain in well functioning space

C) Open places

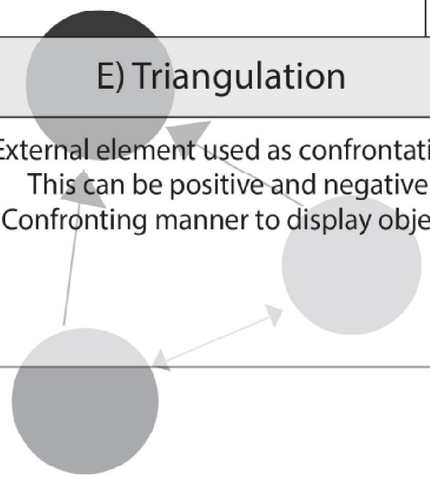
Secluded place where everyone knows one another

D) Social distance



Distance between 45-213cm
Placement in angle of 90 degrees

E) Triangulation



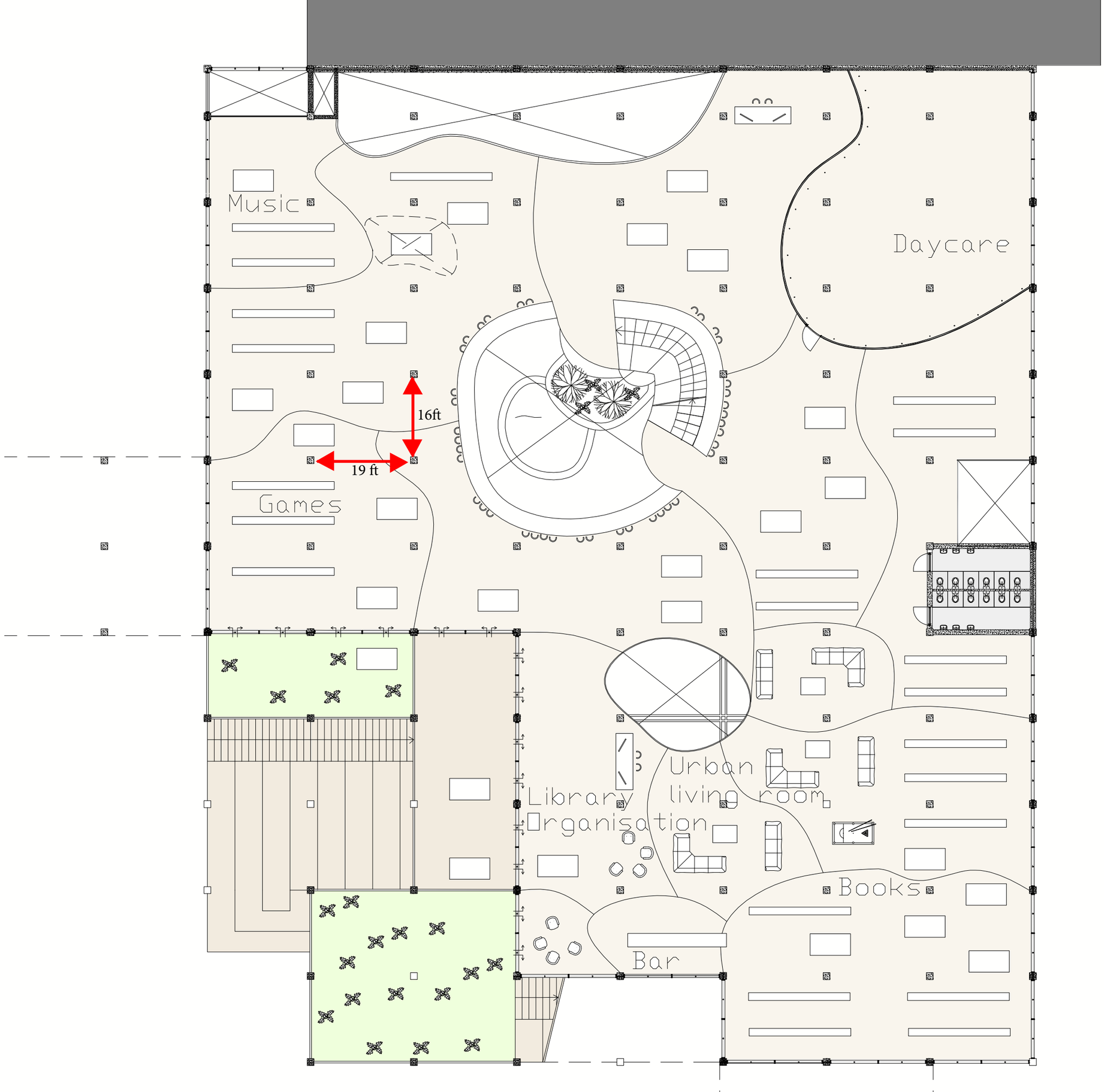
External element used as confrontation
This can be positive and negative
Confronting manner to display object

F) Belonging to minorities

Mixed functions
Variety of people

+01

N


Music
Daycare
16ft
19 ft
Games
Library
Organisation
Urban
living room
Books
Bar

Use of dominant screens

Use of dominant screens

Above and underground

1

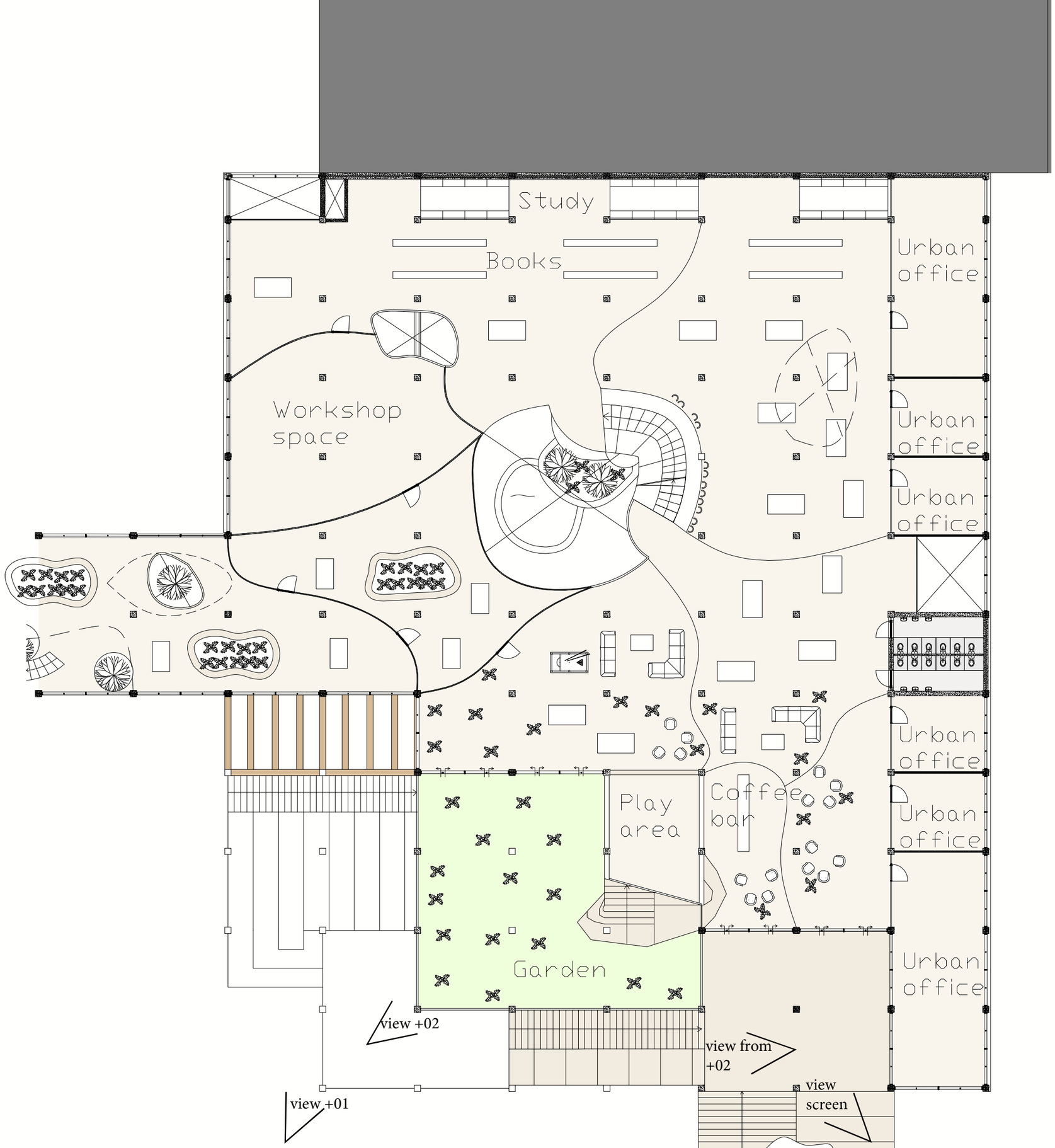
1

2

View +01

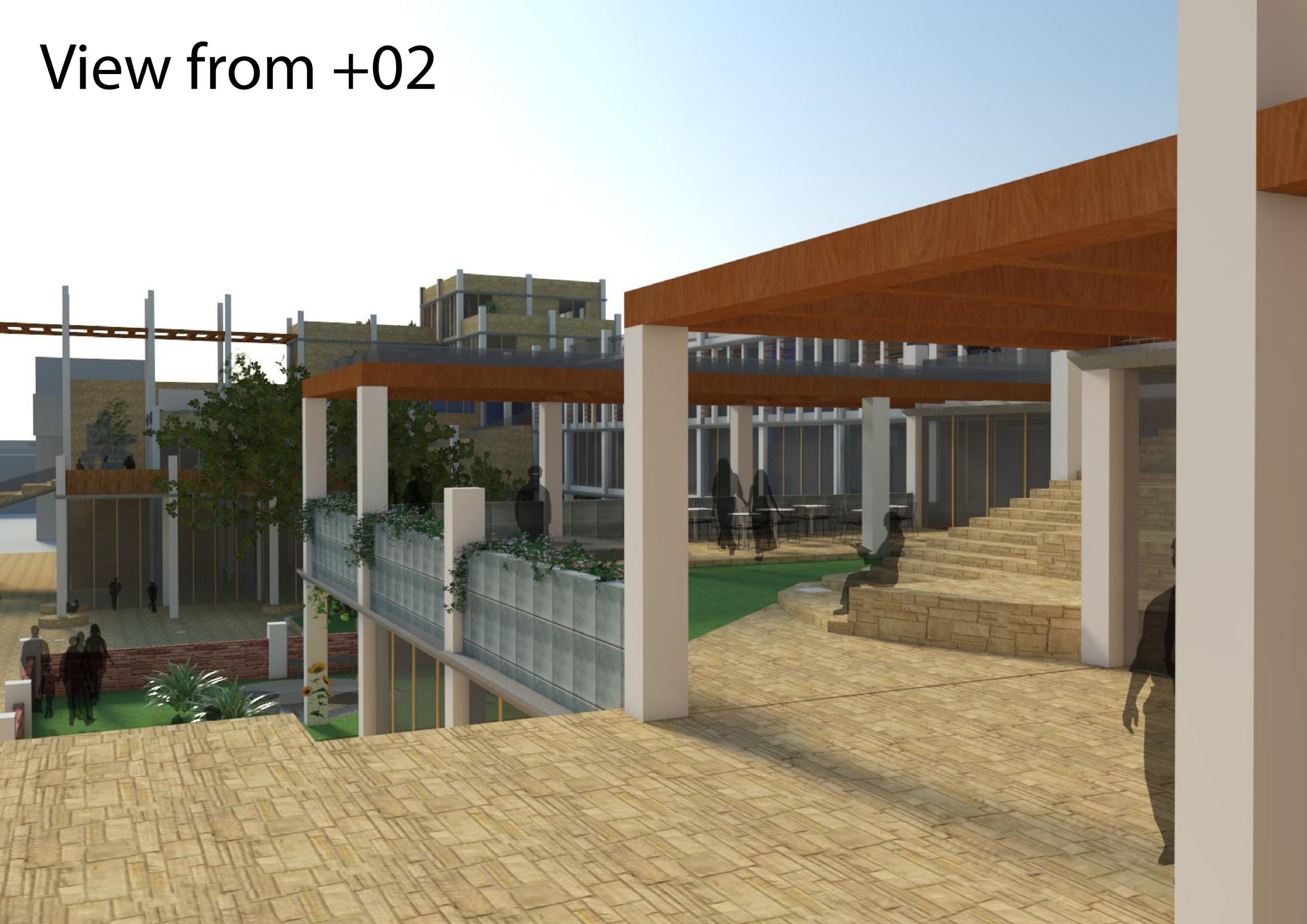
+02

N


Study
Books
Urban office
Urban office
Urban office
Urban office
Urban office
Urban office
Workshop space
Play area
Coffee bar
Garden
view +02
view from +02
view +01
view screen

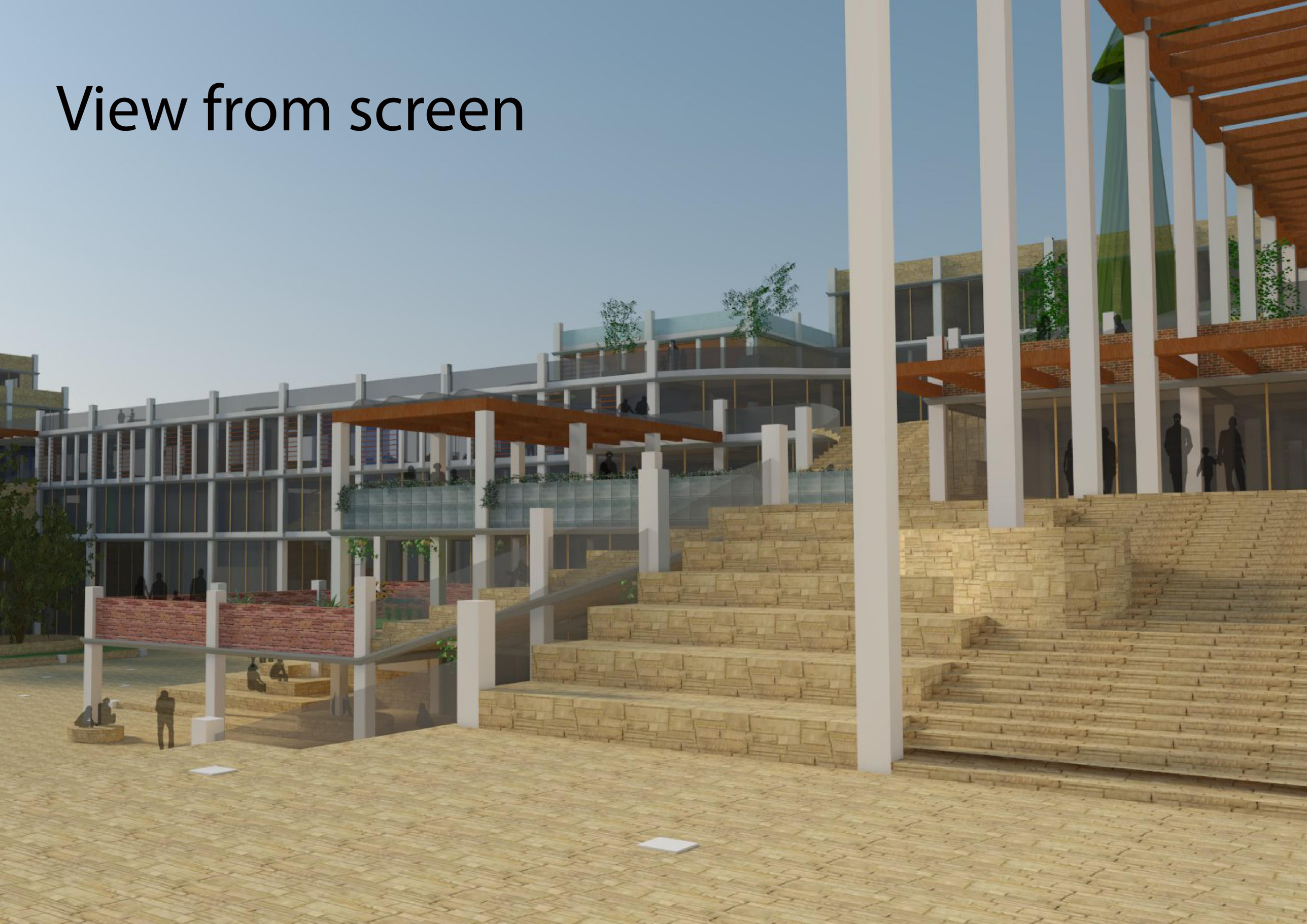
View +02

View from +02



View from screen

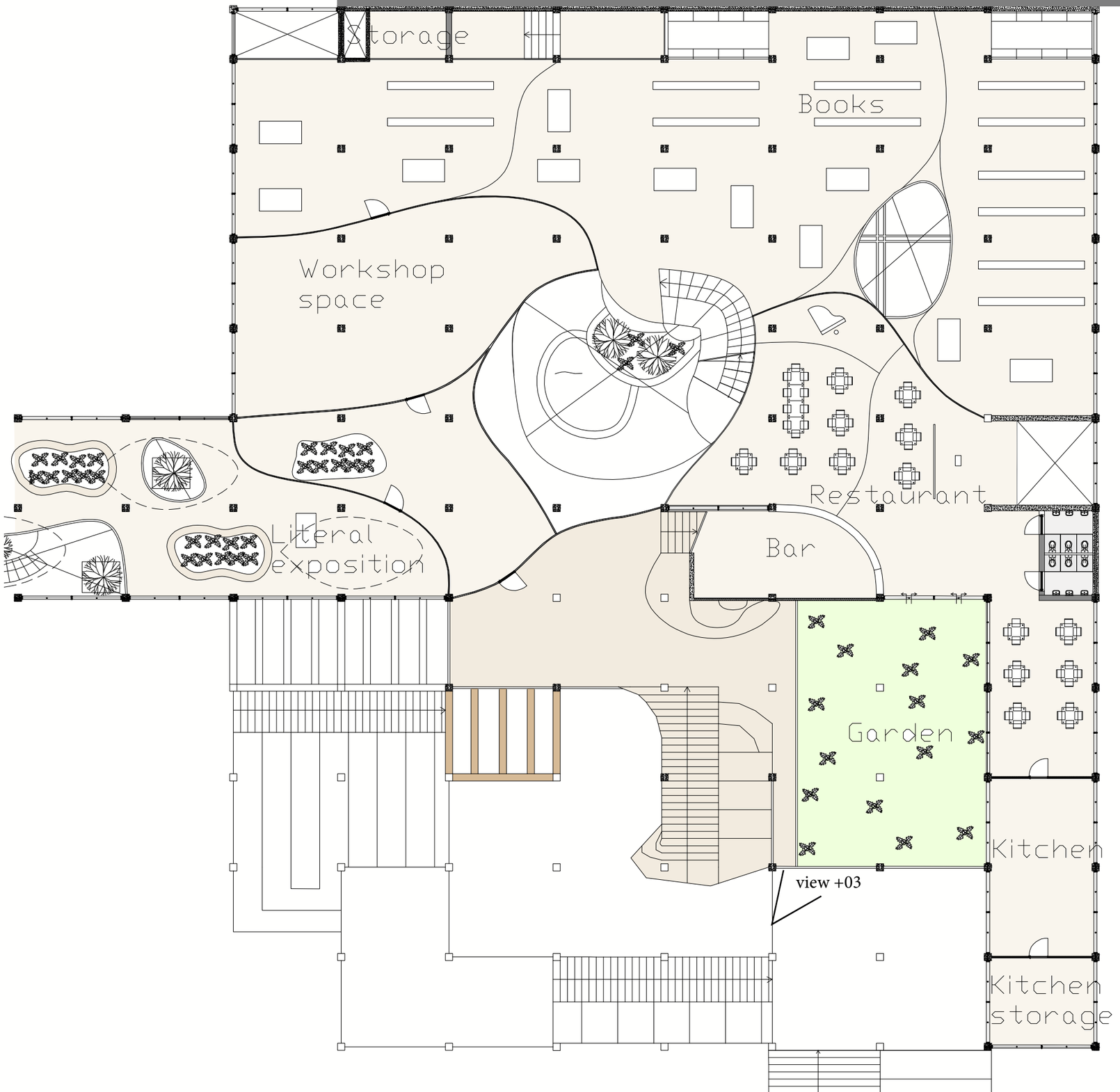
View from screen



Atrium

+03

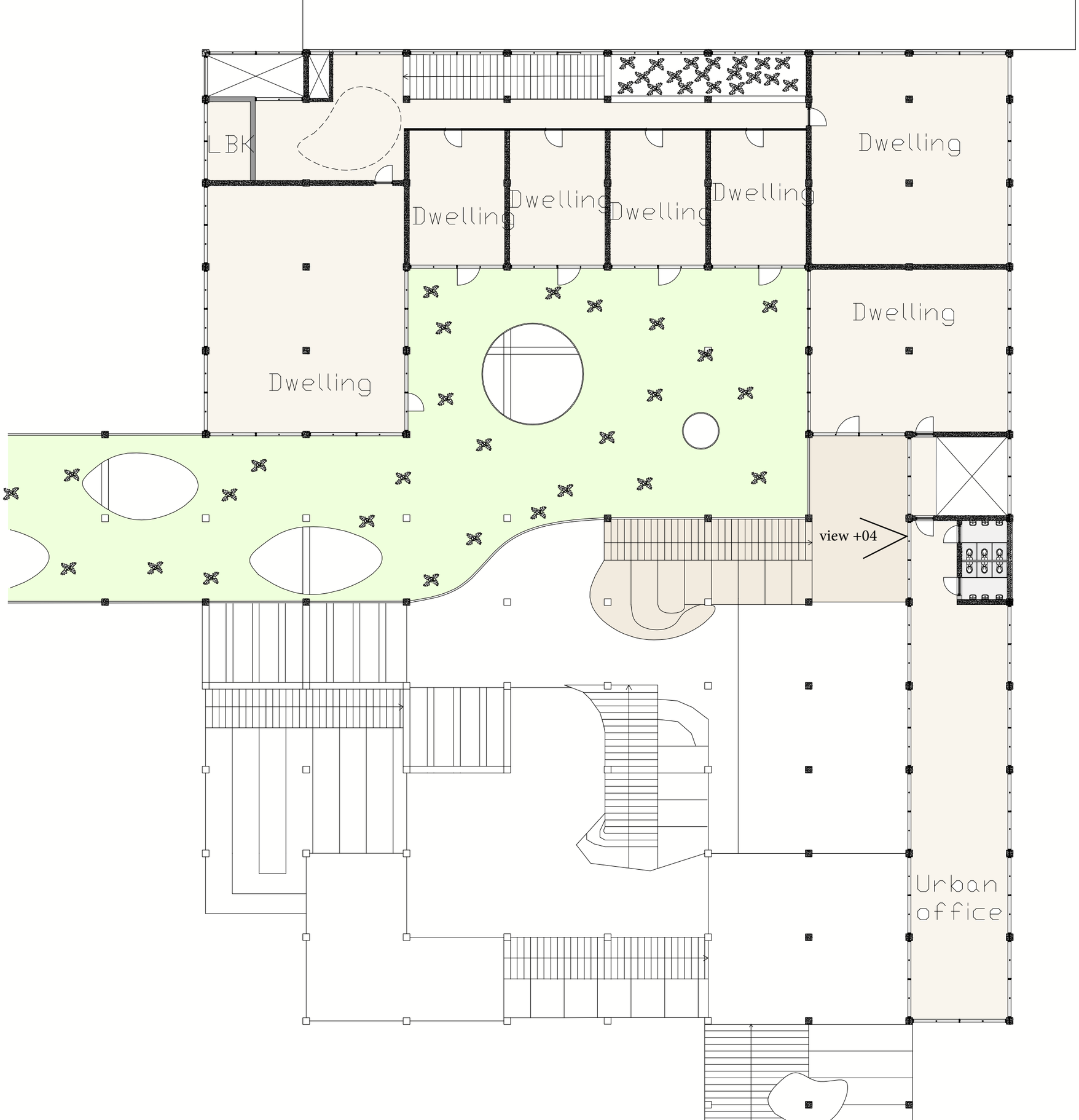
N


Storage
Books
Workshop
space
Literal
exposition
Restaurant
Bar
Garden
Kitchen
view +03
Kitchen
storage

View +03

+04

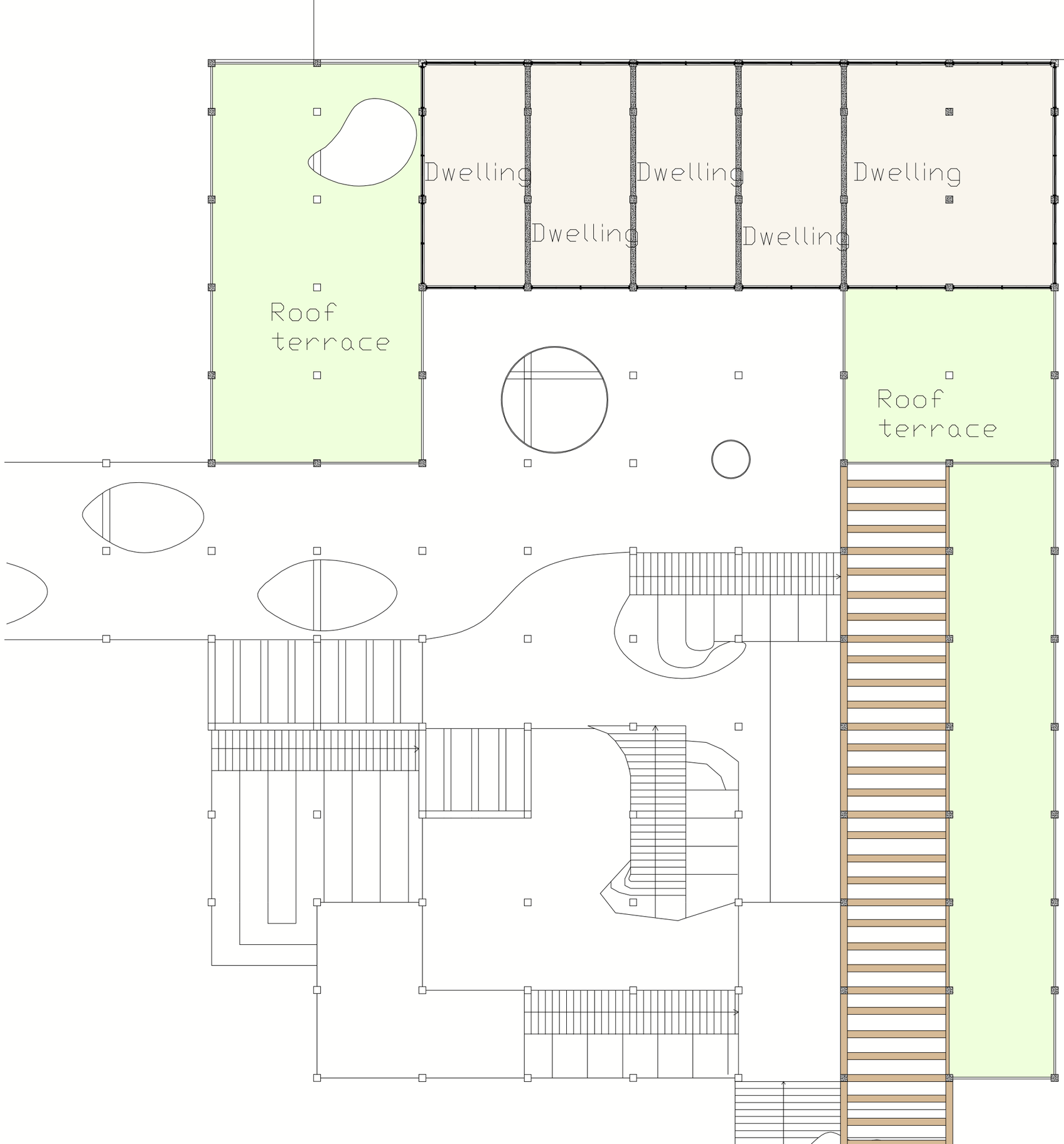
N


LBK
Dwelling
Dwelling
Dwelling
Dwelling
Dwelling
Dwelling
Dwelling
Dwelling
view +04
Urban
office

View from +04

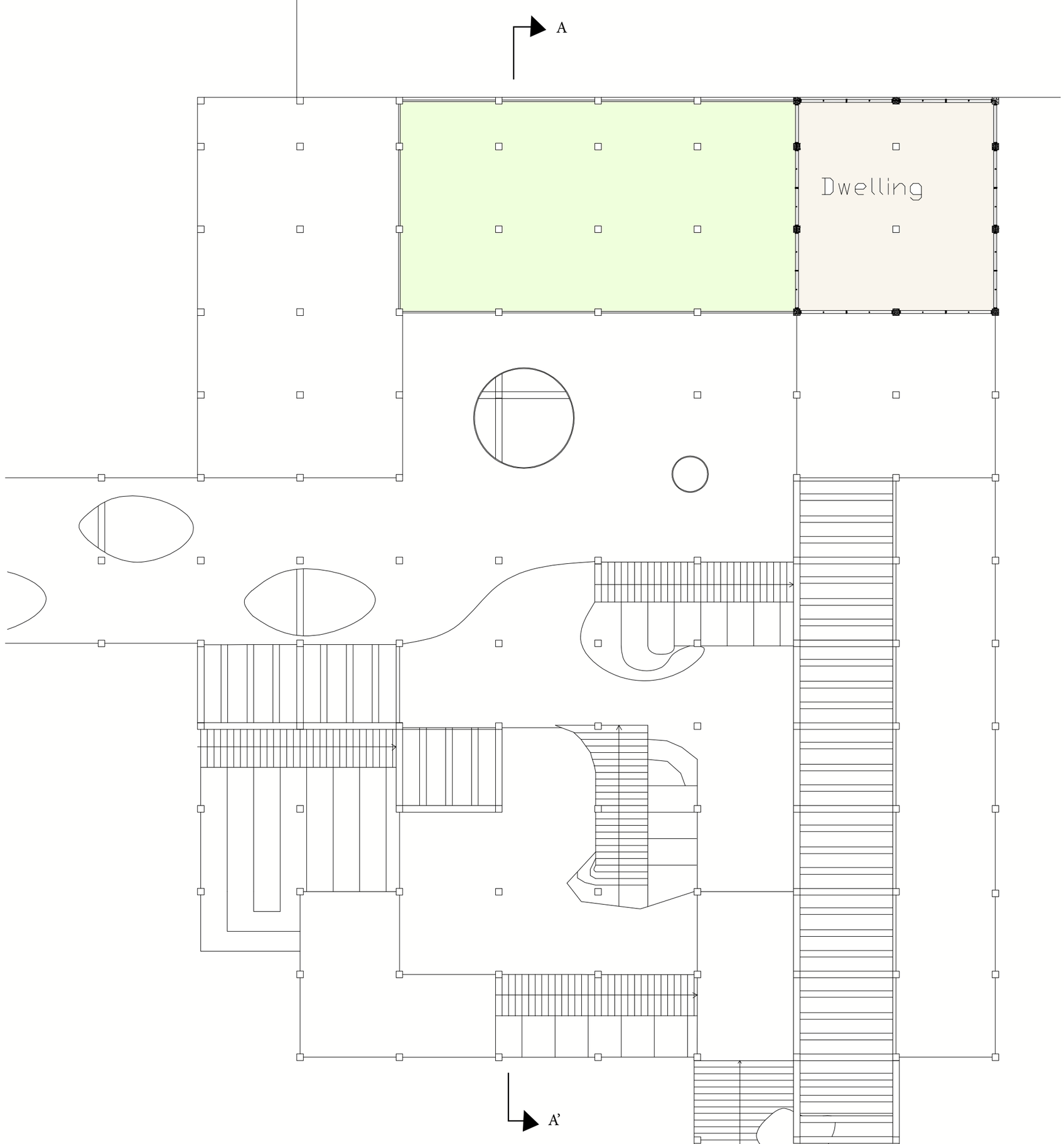
+05

N

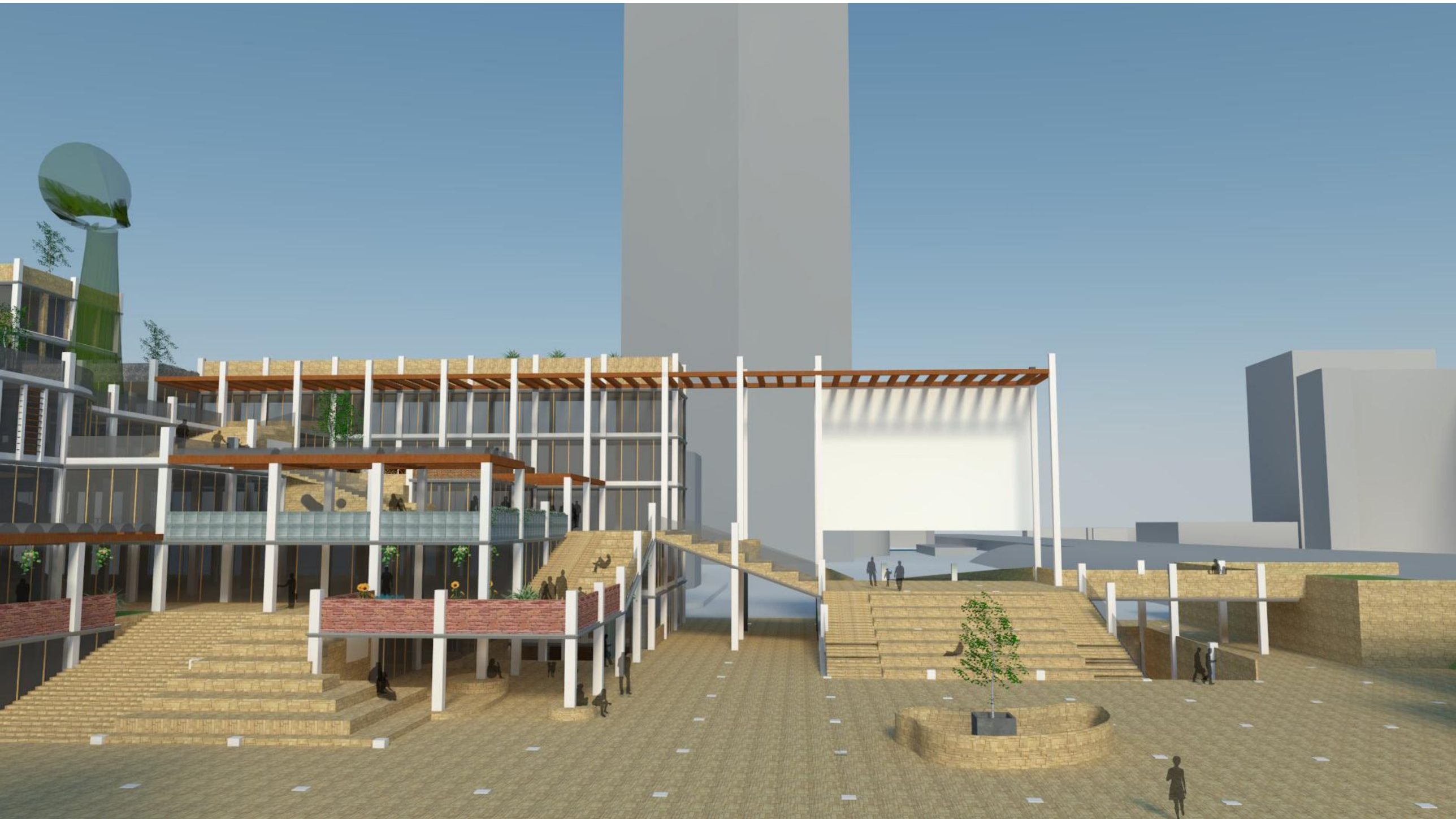

Dwelling
Dwelling
Dwelling
Dwelling
Dwelling
Roof
terrace
Roof
terrace

+06

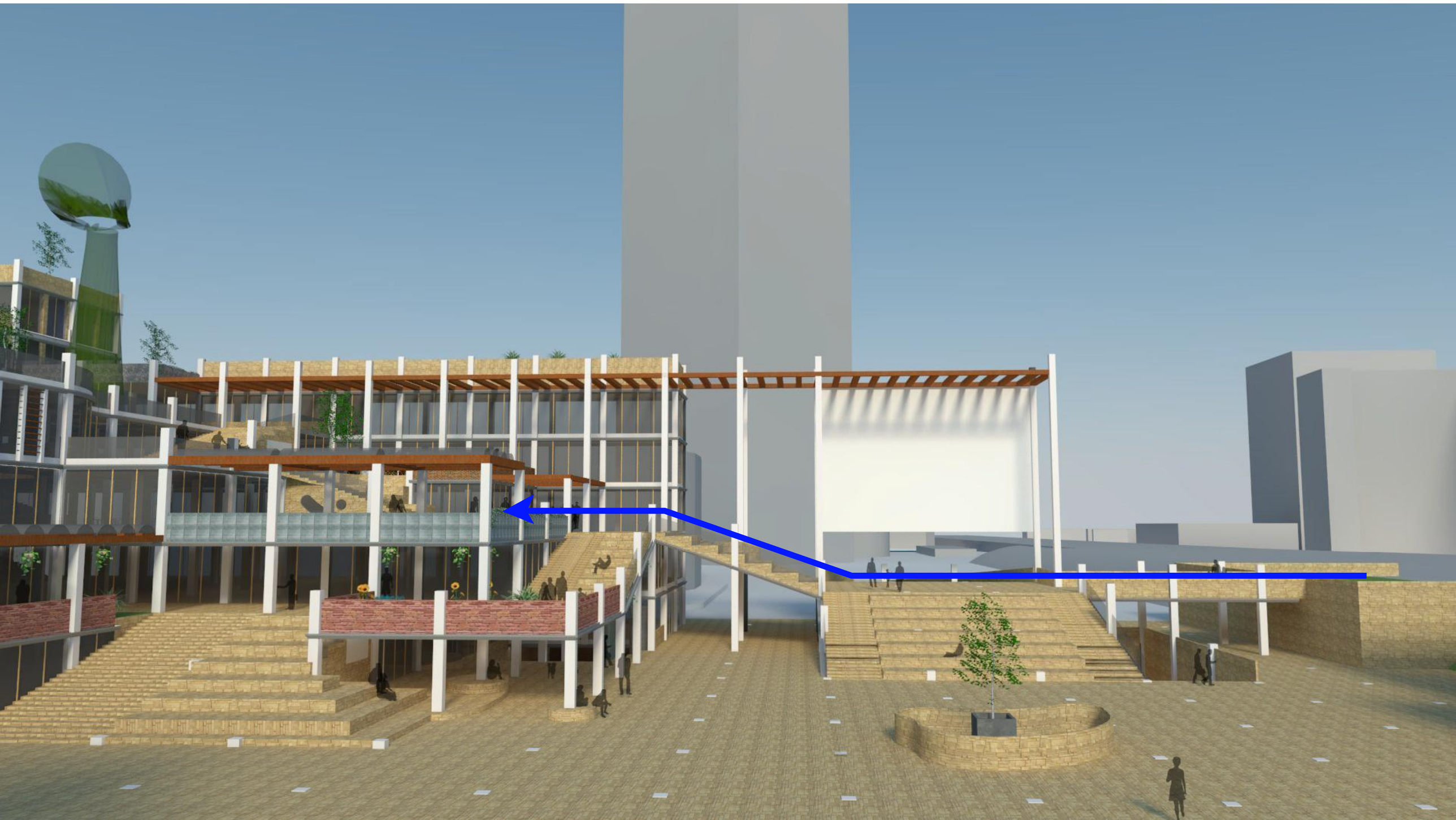
N



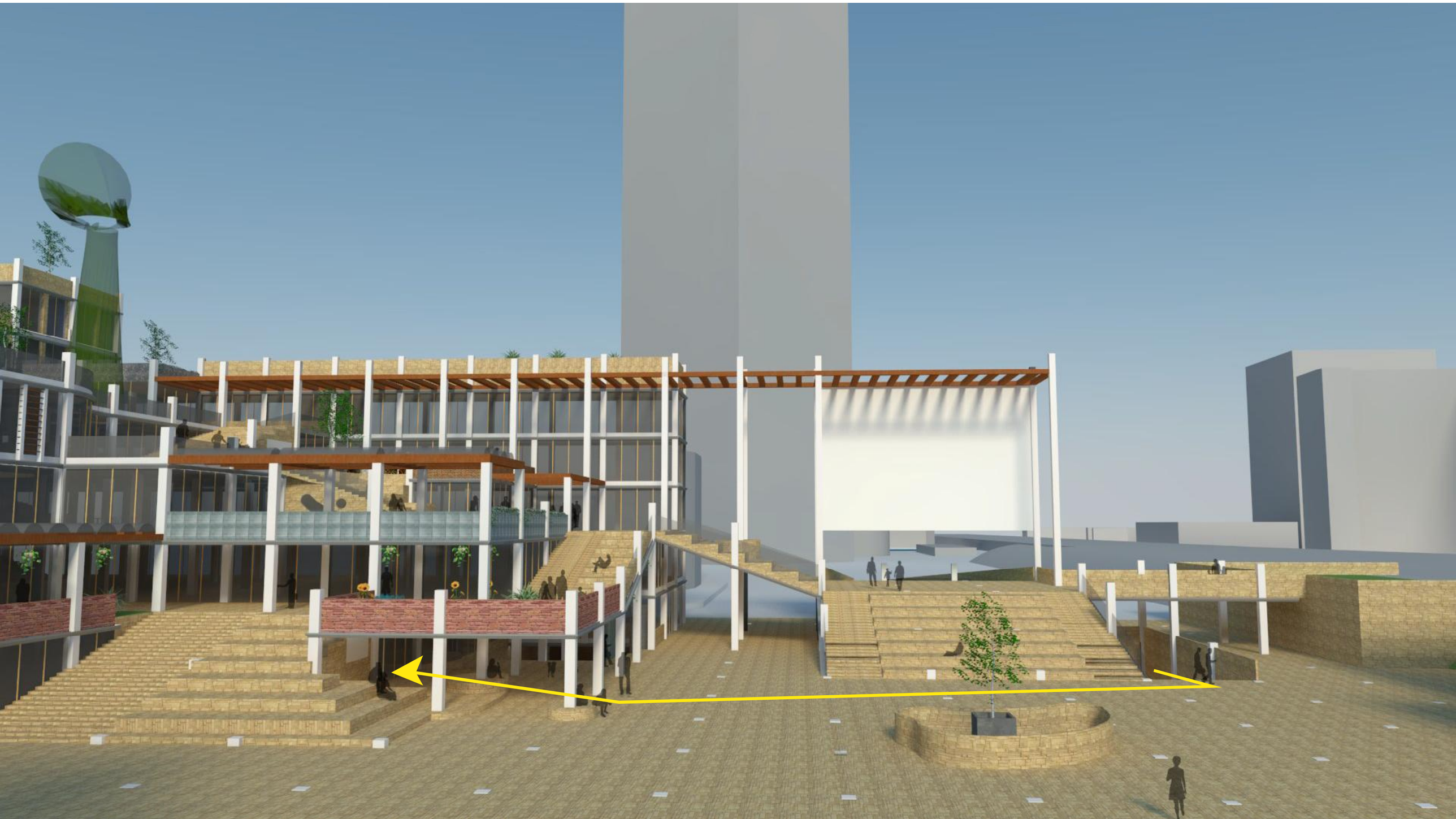
Different use(r)s



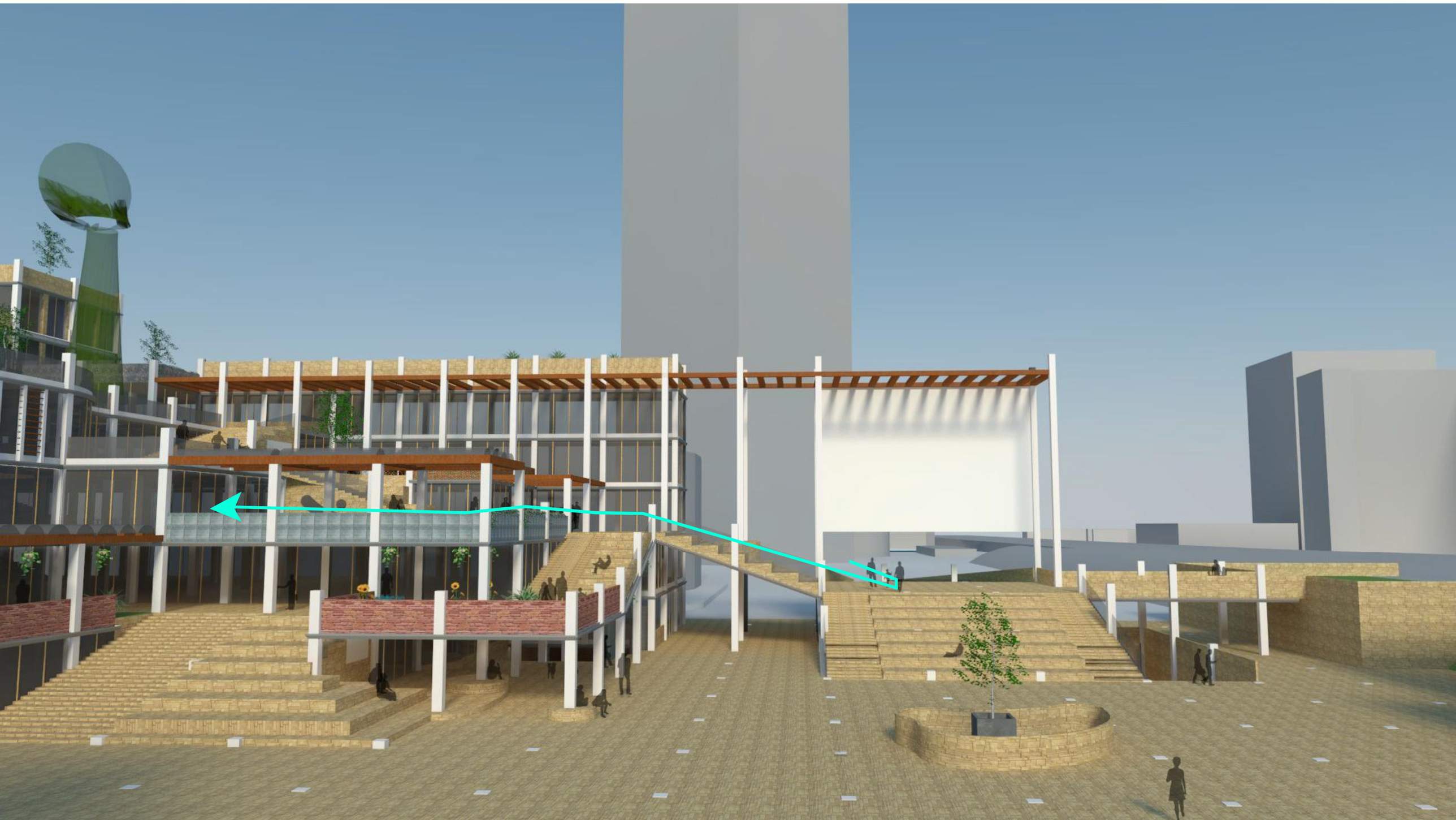
From train: quick cup of coffee



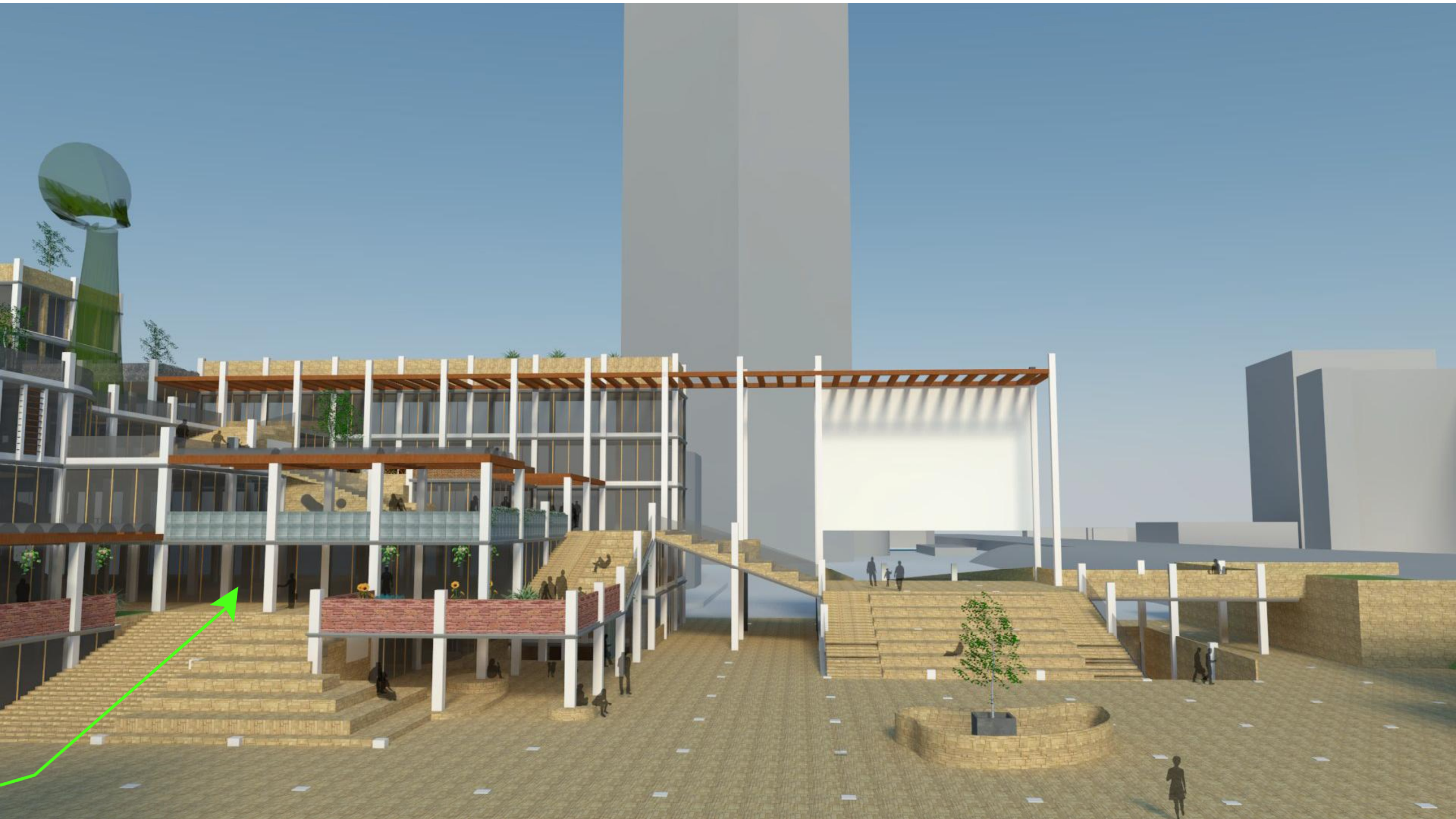
From tram: specifically for makerspace



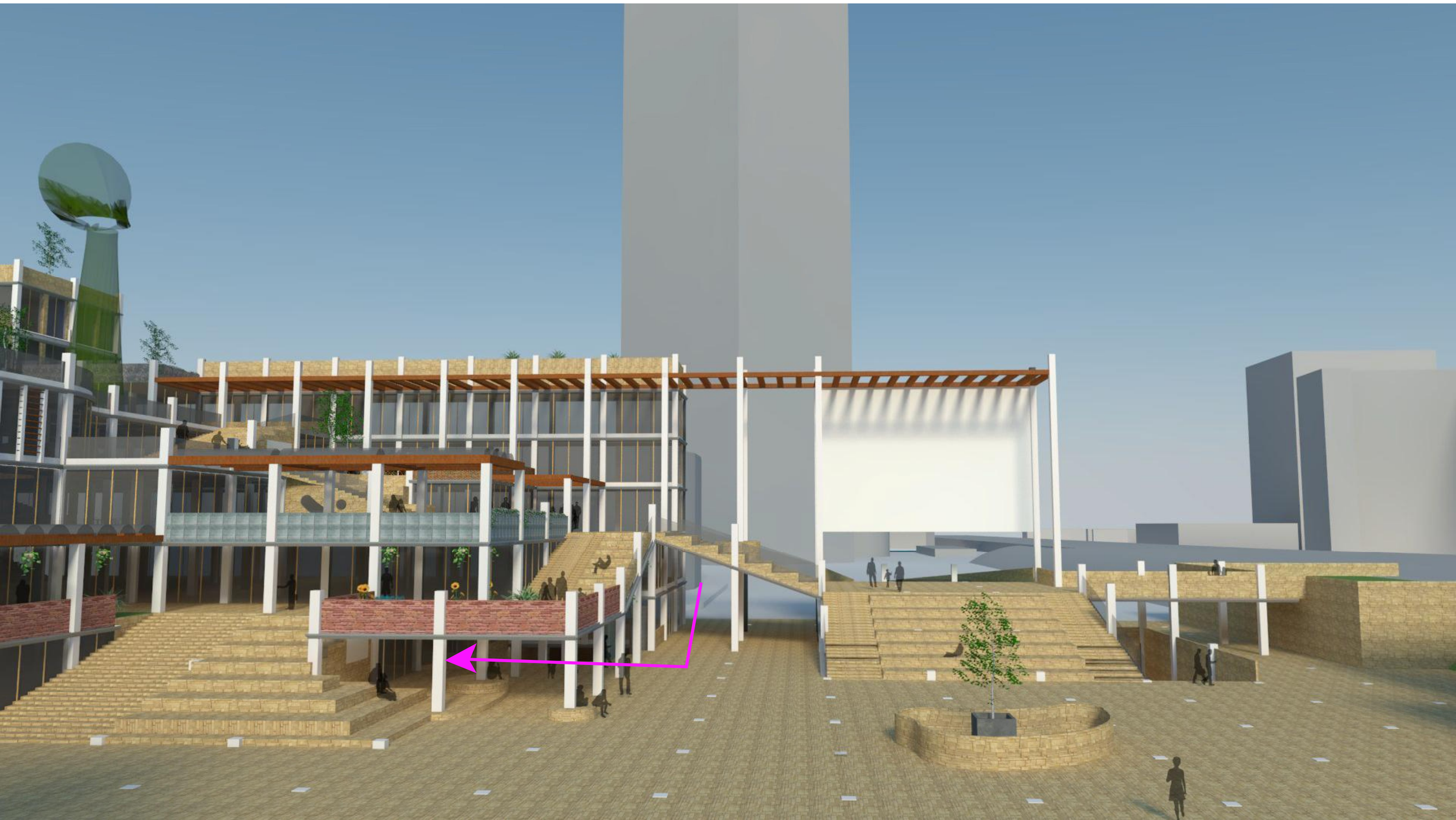
From student home: to study



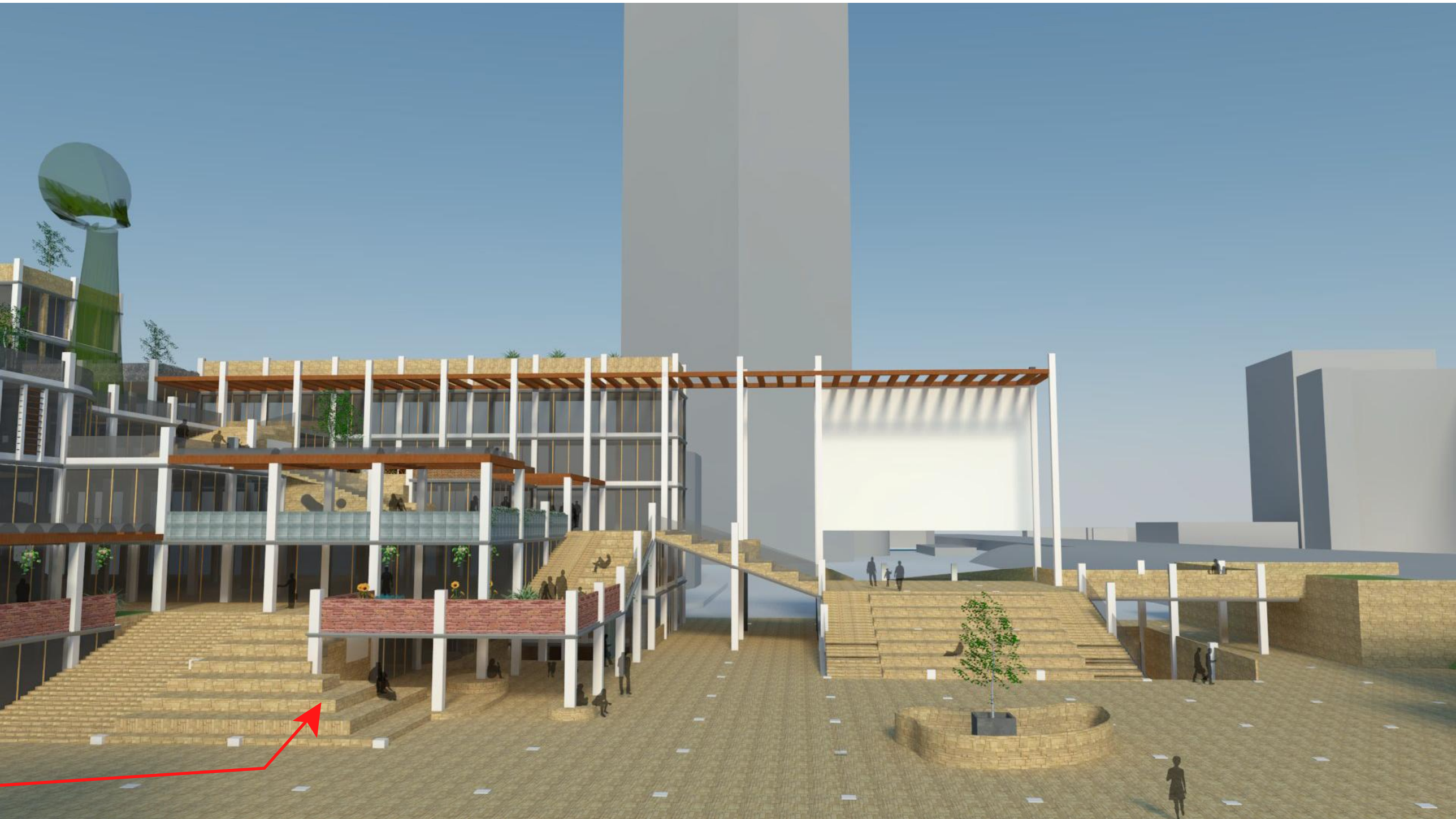
From home: mother and child for library



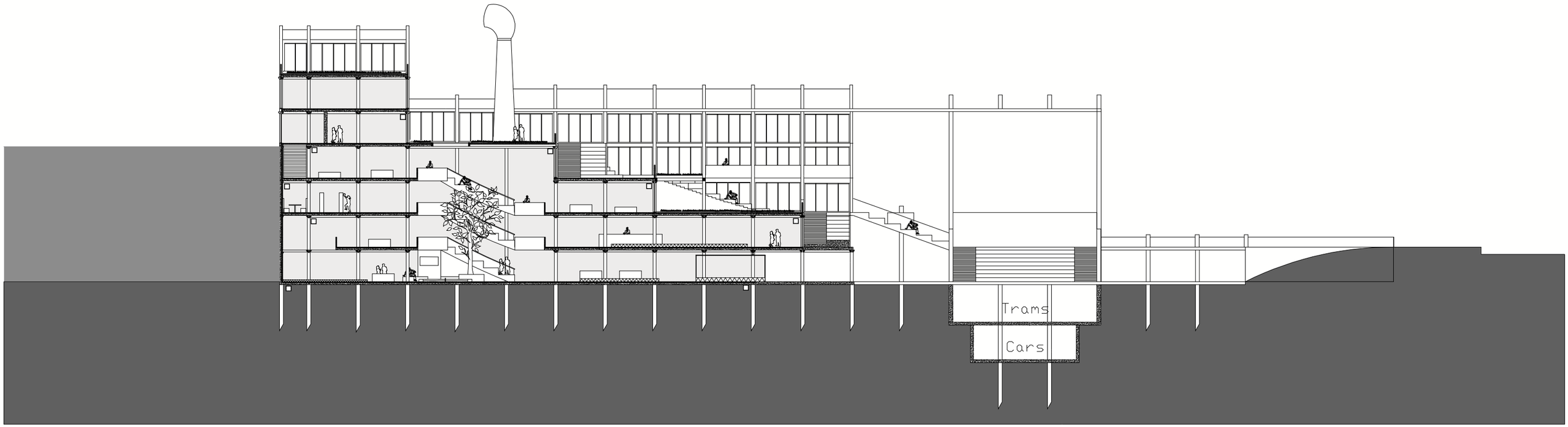
From home: for band practice



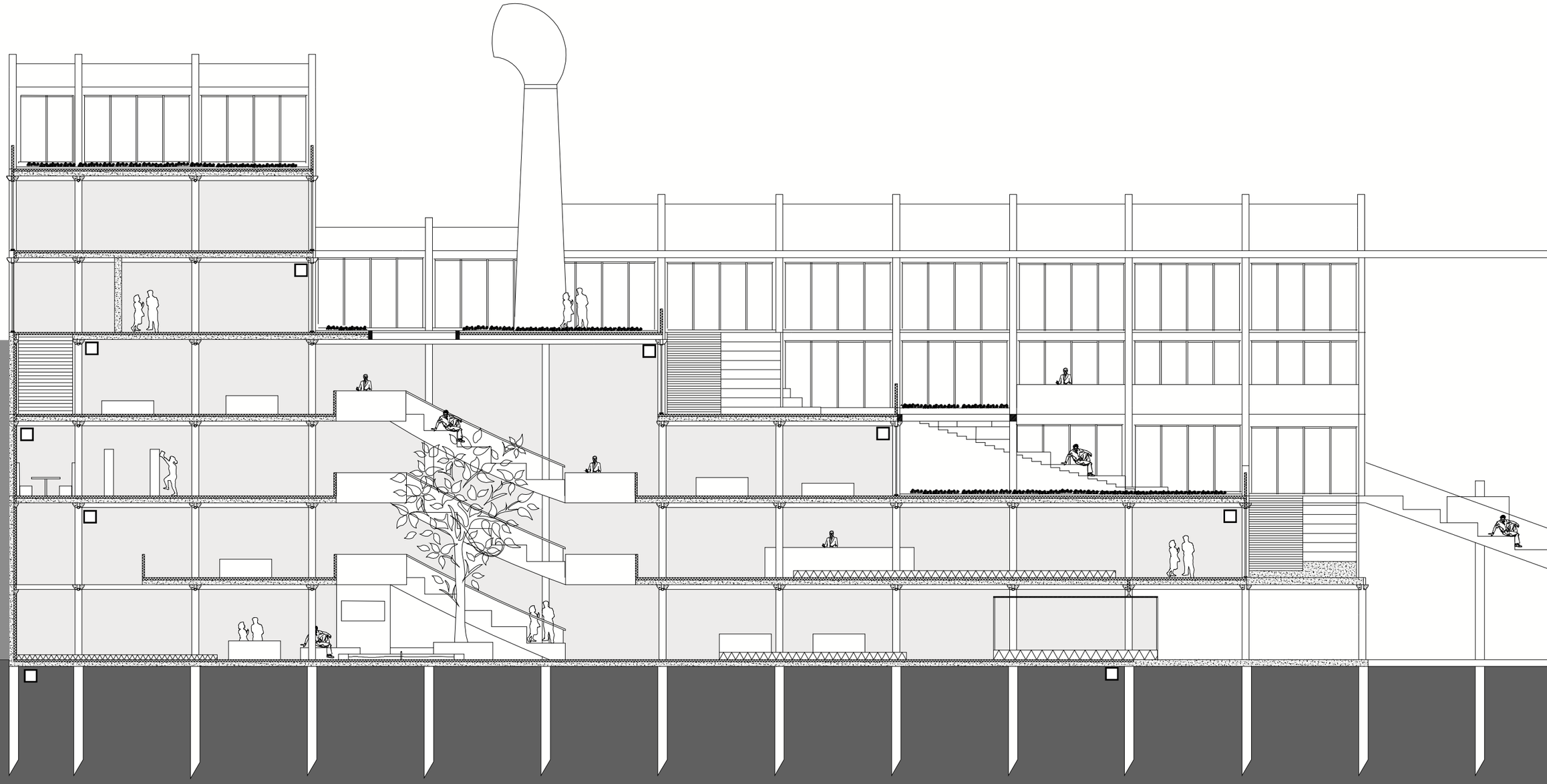
From home: youngsters for place to hang out



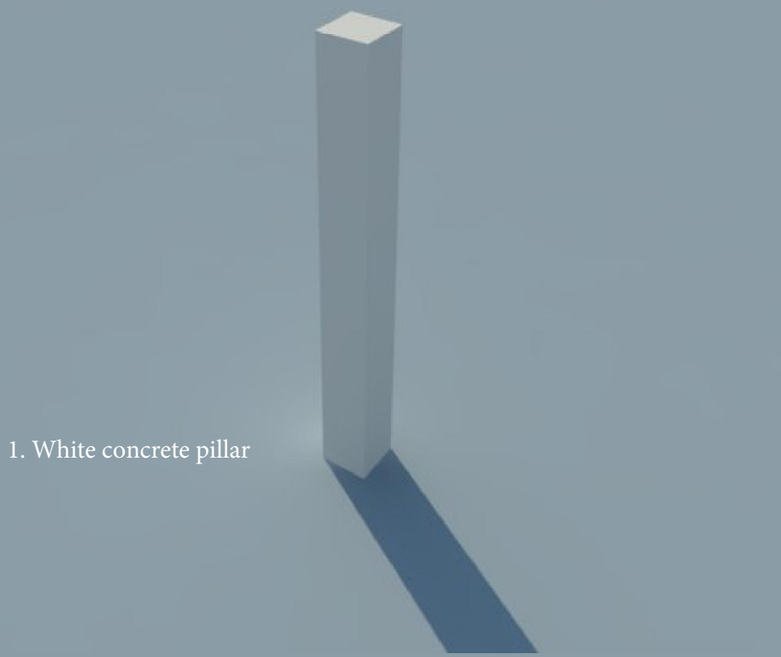
Section A



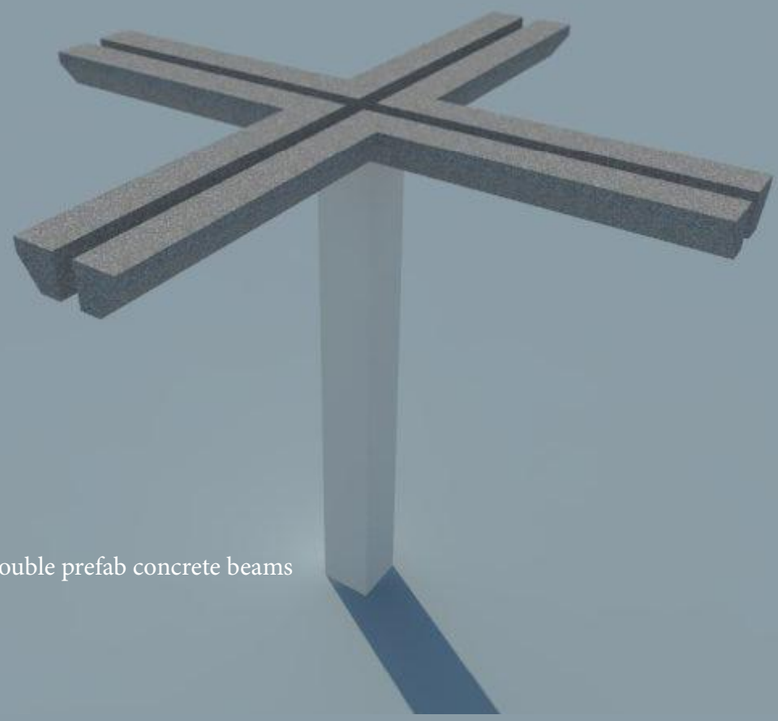
Section A



Grid

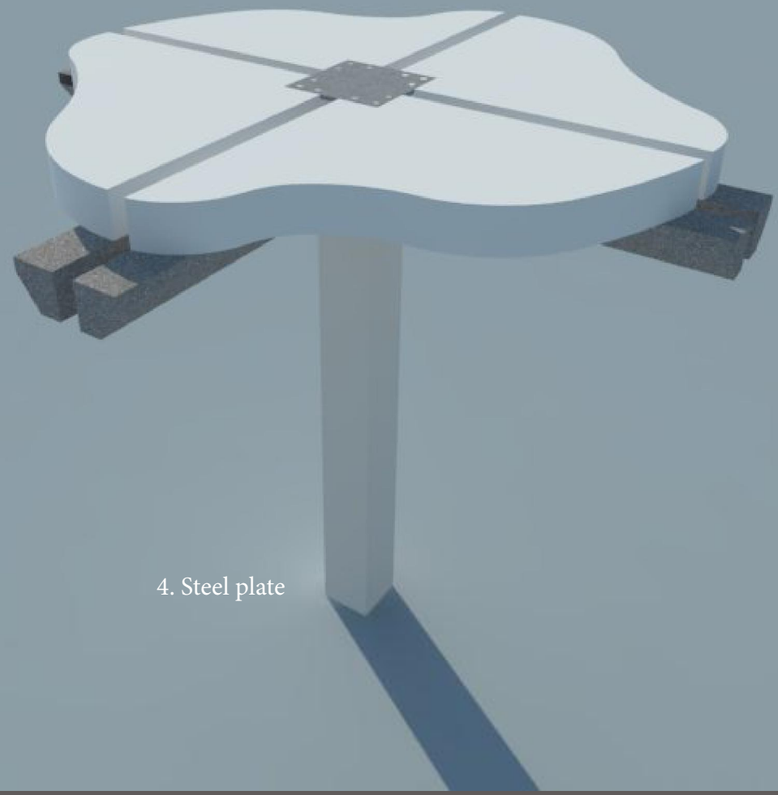


1. White concrete pillar



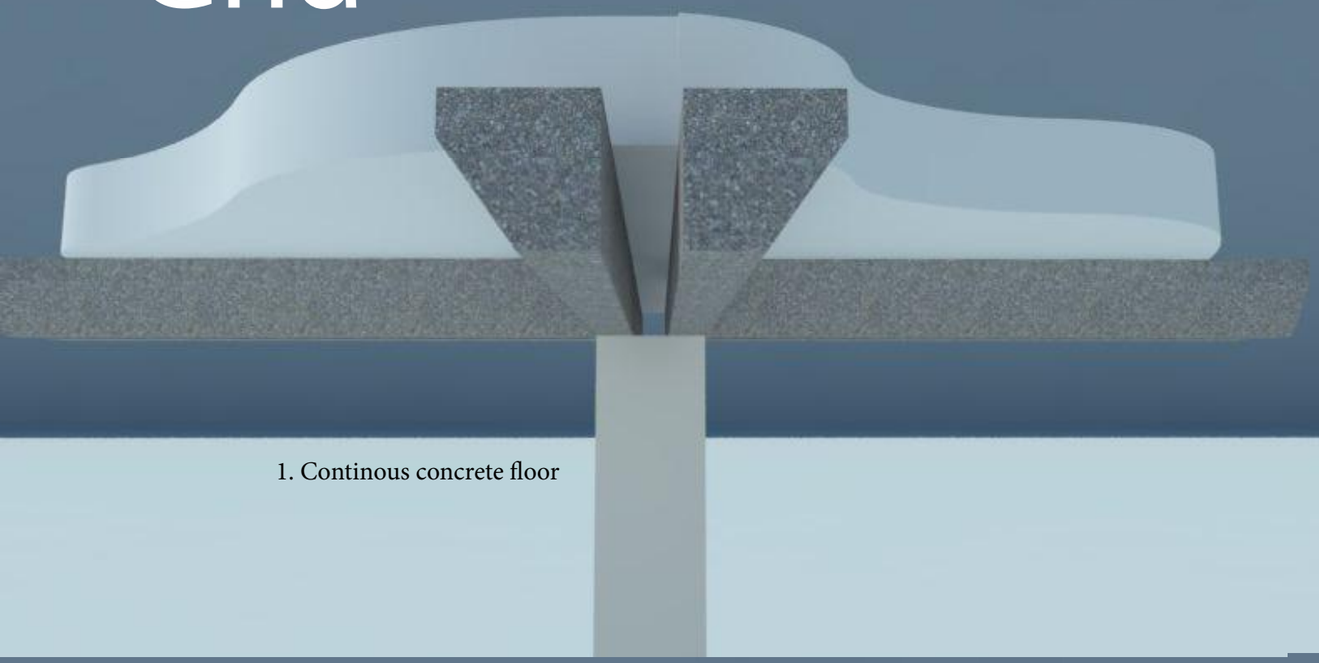
2. Double prefab concrete beams

3. Slab floor

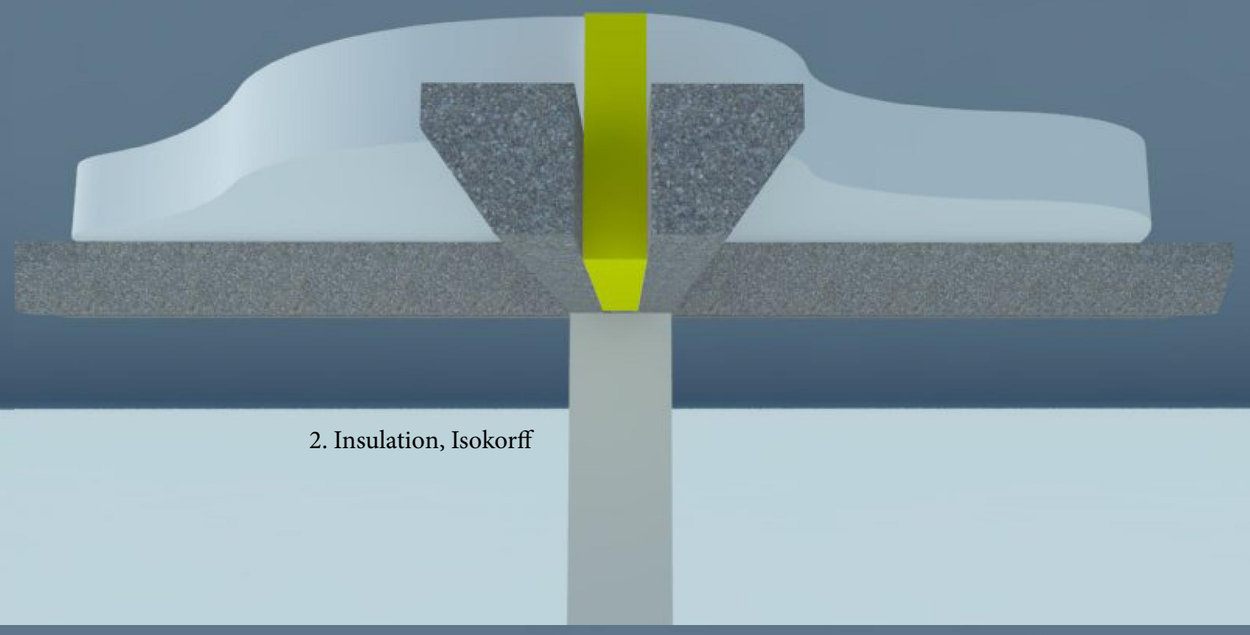


4. Steel plate

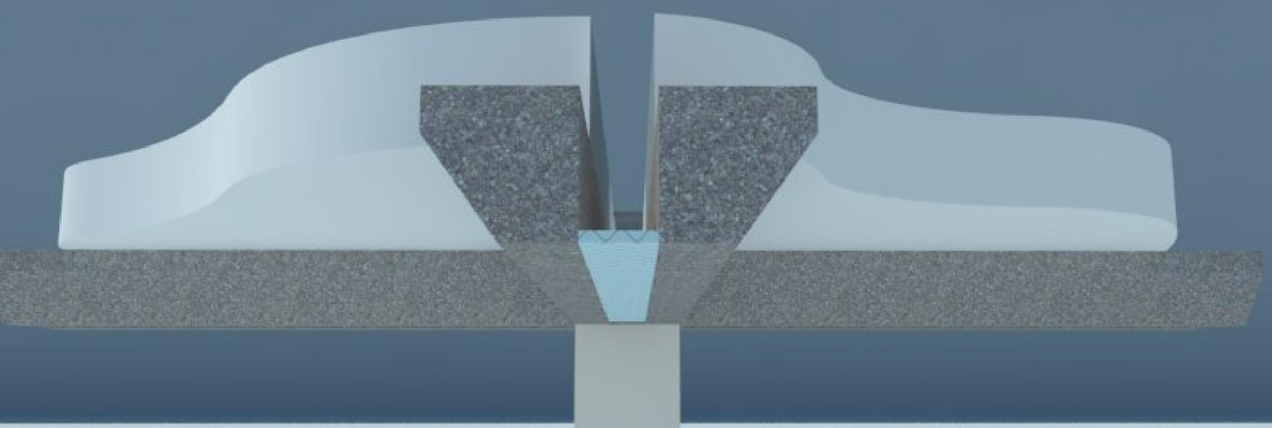
Grid



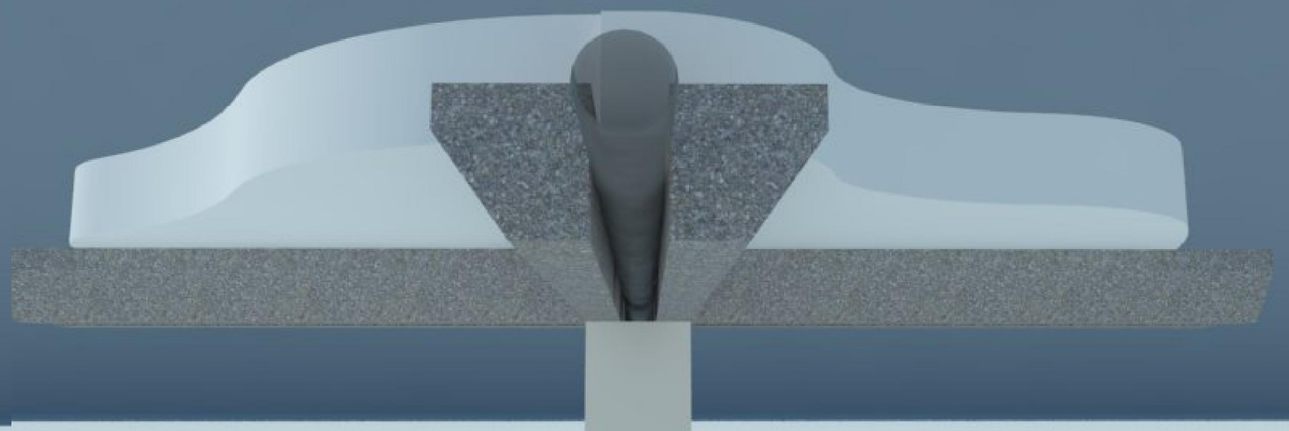
1. Continous concrete floor



2. Insulation, Isokorff



3. Lighting



4. Vacuum tubes
for messaging

Grid

Eterno Mono:
Smooth composite stone with freedom of form

Grid

Eterno Unico:
Rough composite stone

Freedom for change

Freedom for change

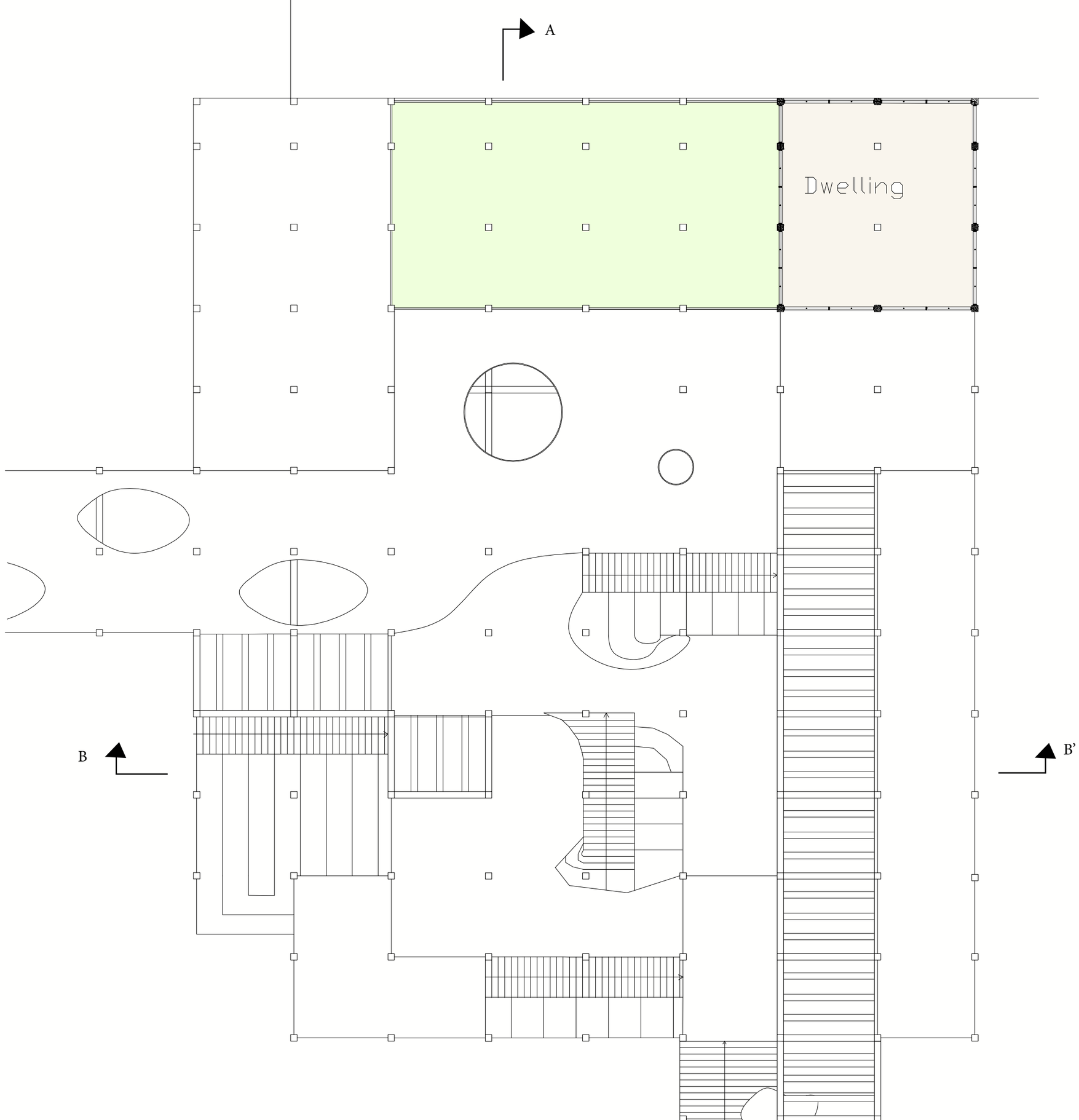
Freedom for change

Freedom for change

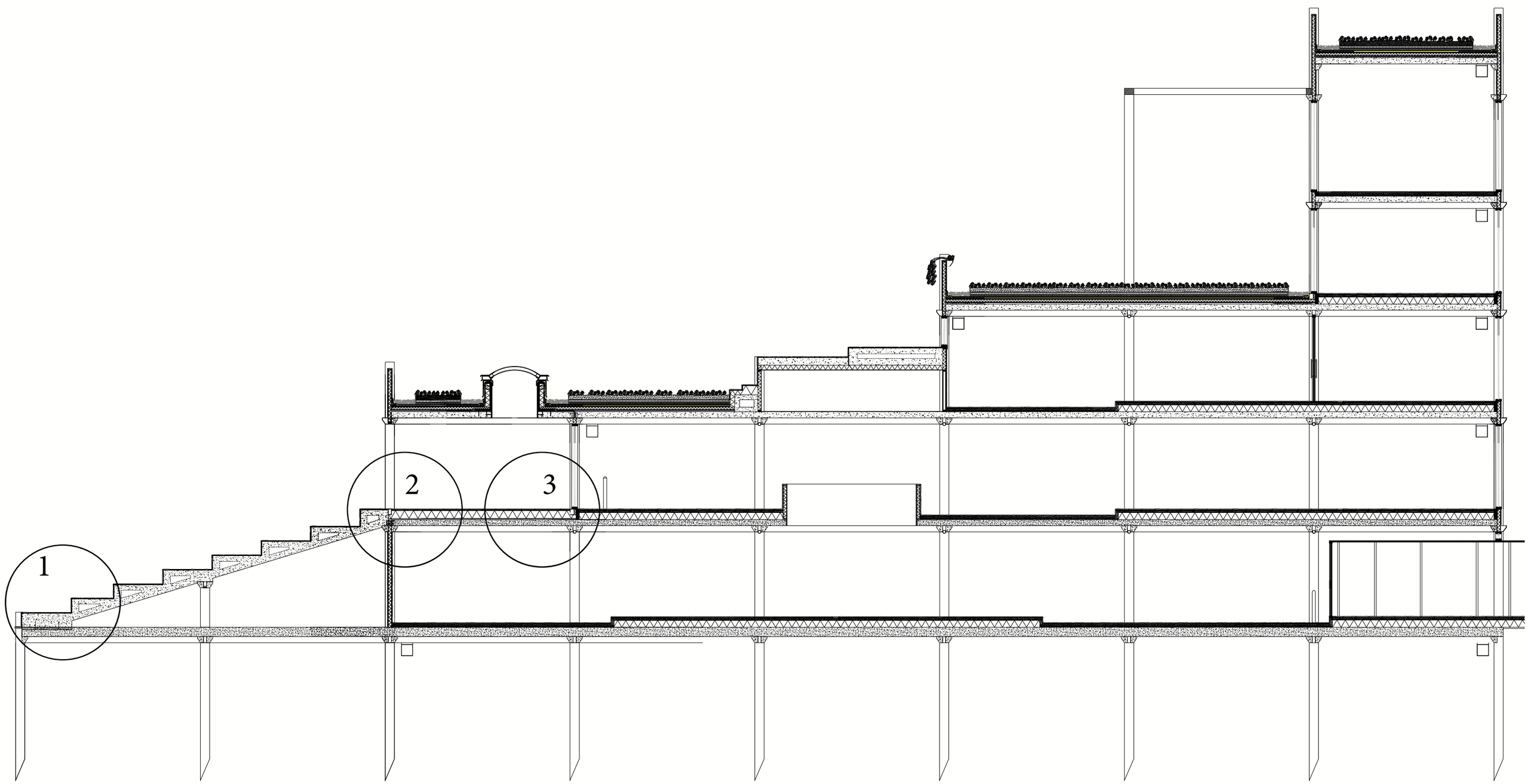
Alternative: Solar panels

+06

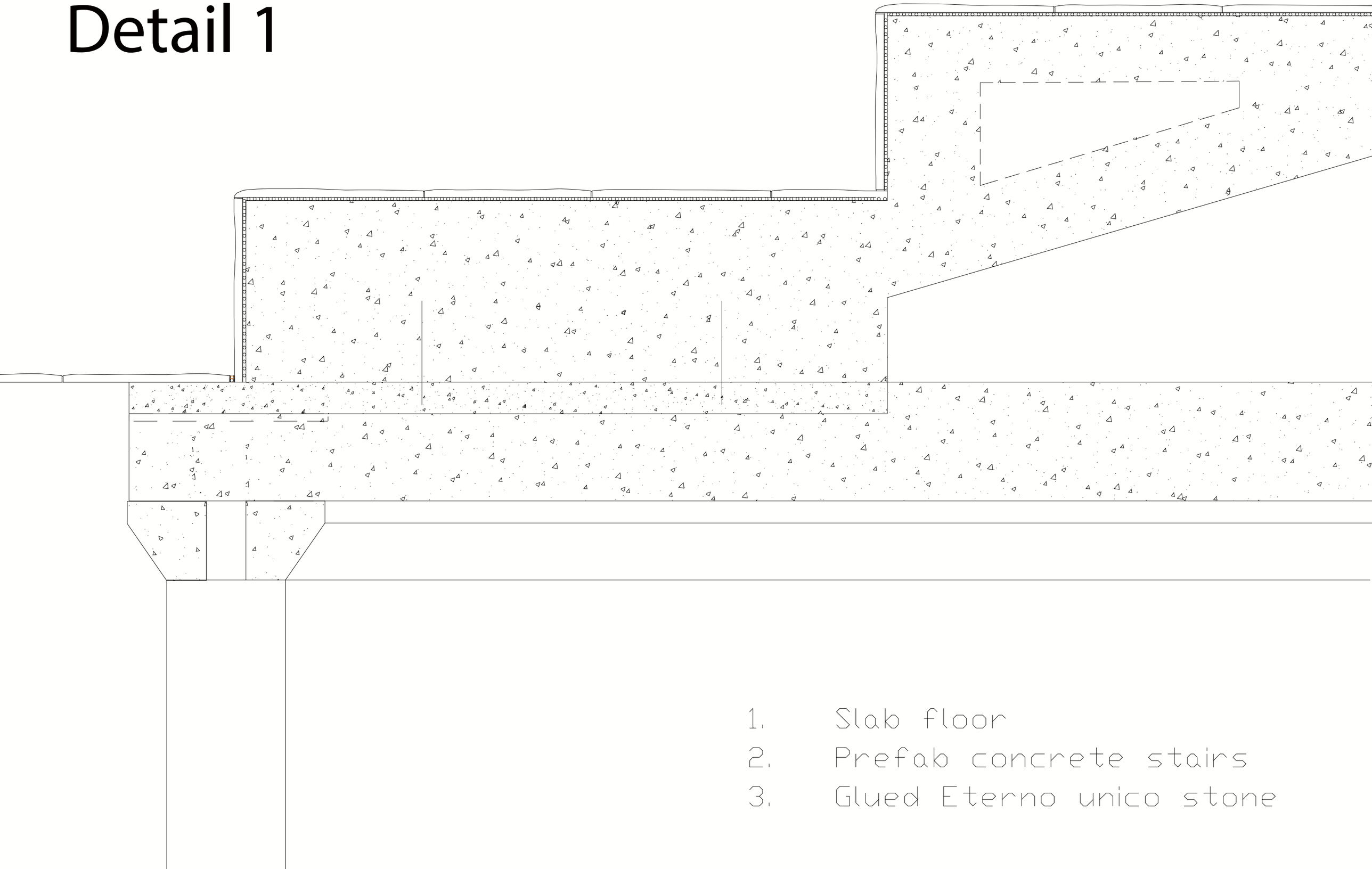
N



Section B

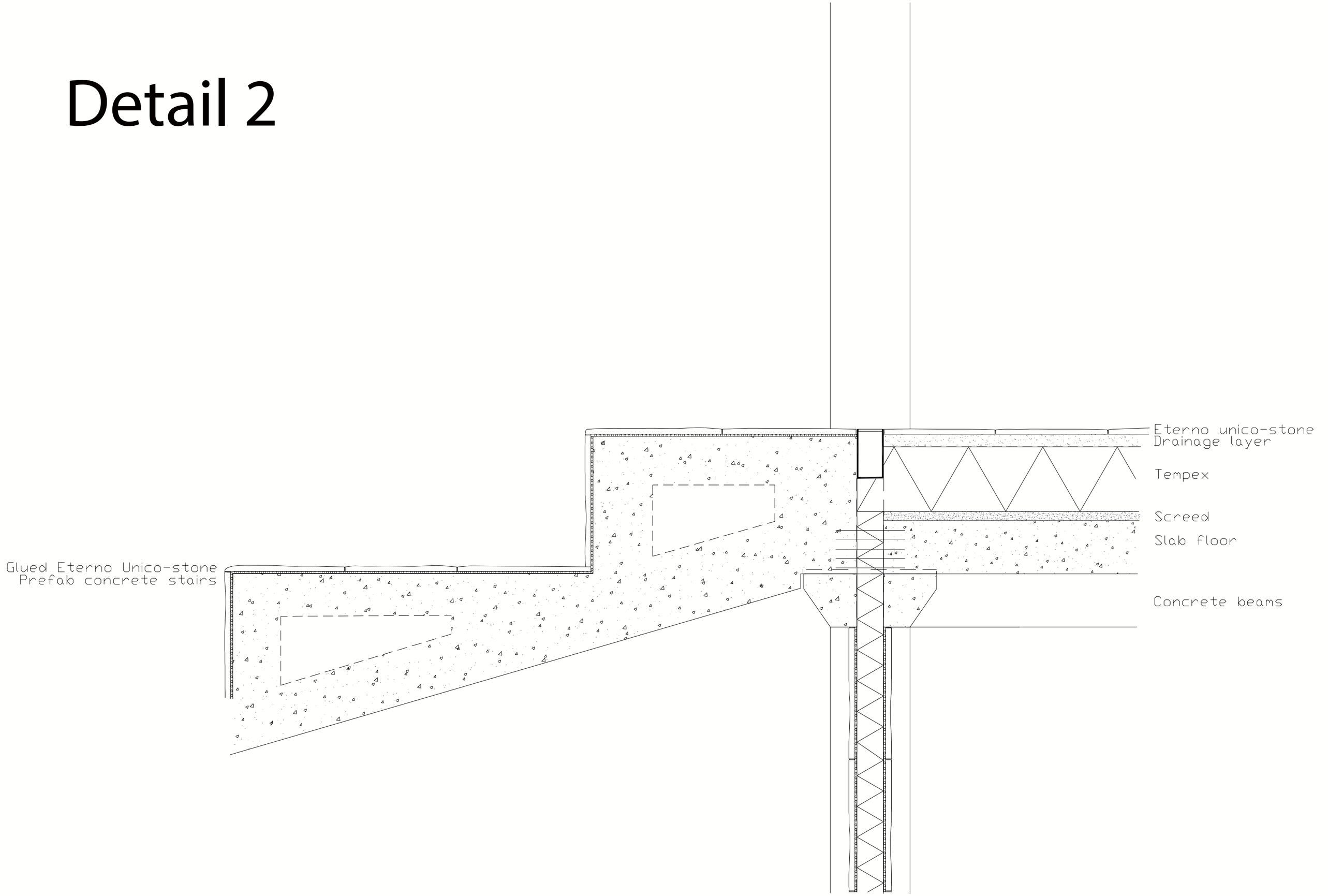


Detail 1

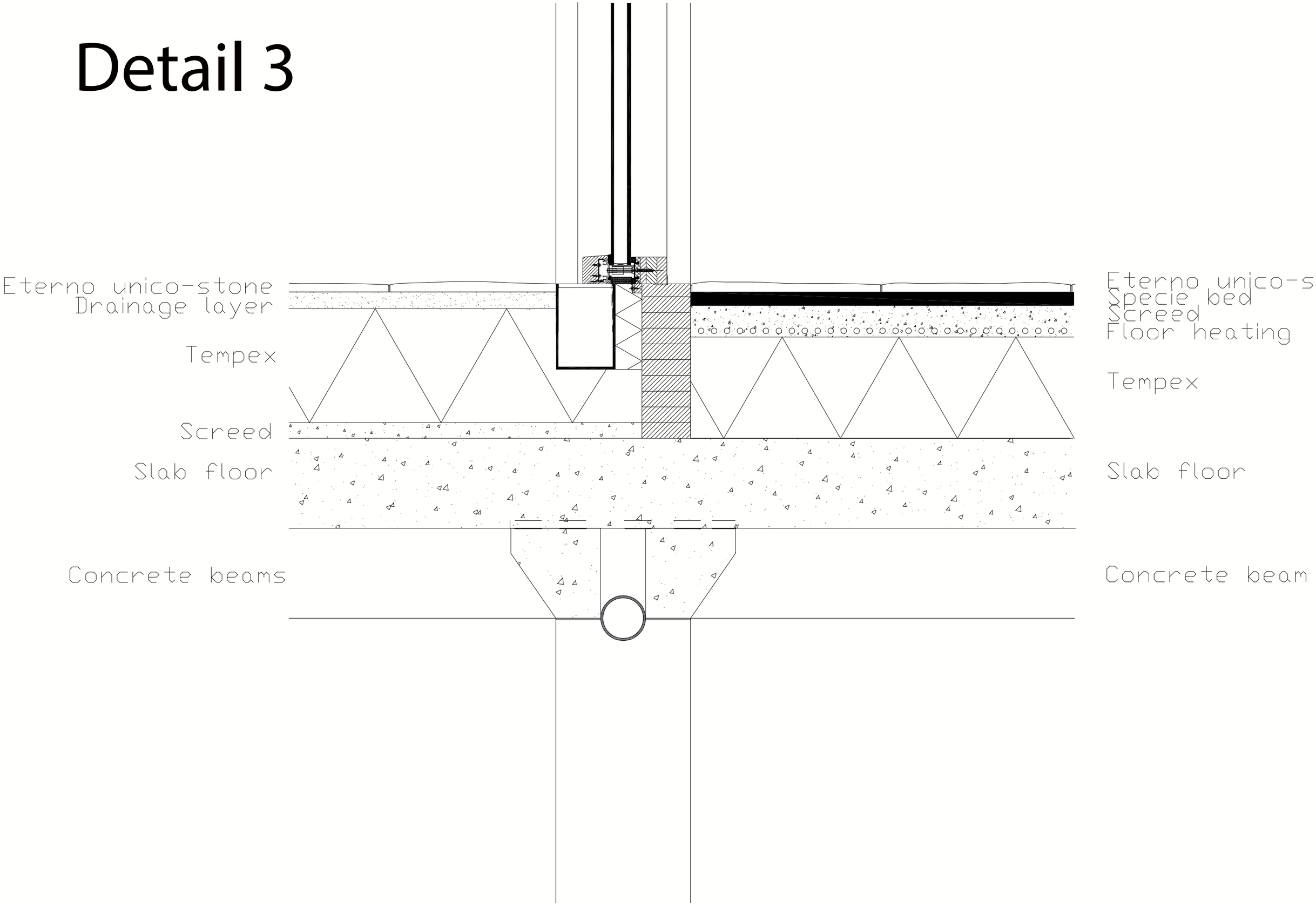


1. Slab floor
2. Prefab concrete stairs
3. Glued Eterno unico stone

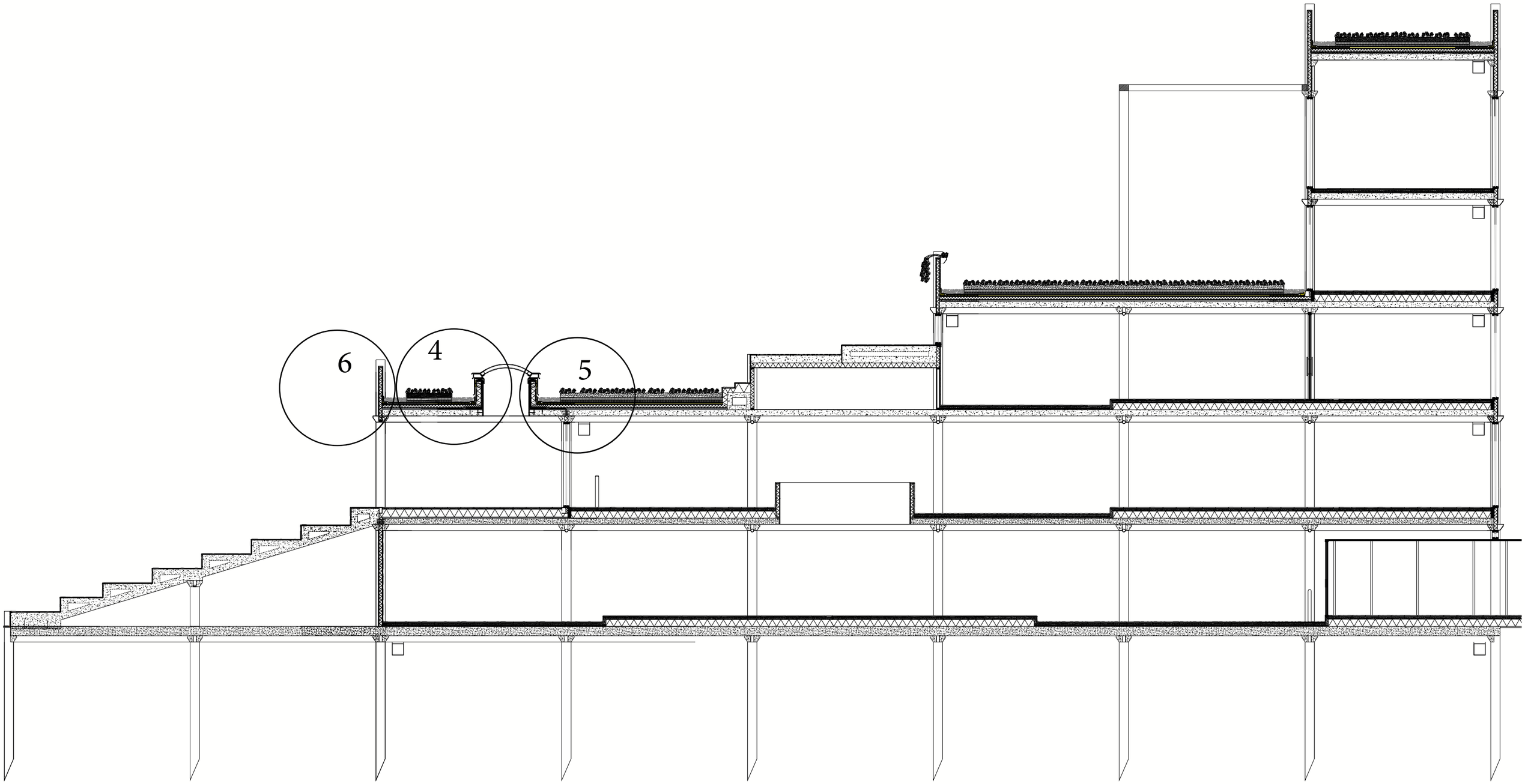
Detail 2


Eterno unico-stone
Drainage layer
Tempex
Screed
Slab floor
Concrete beams
Glued Eterno Unico-stone
Prefab concrete stairs

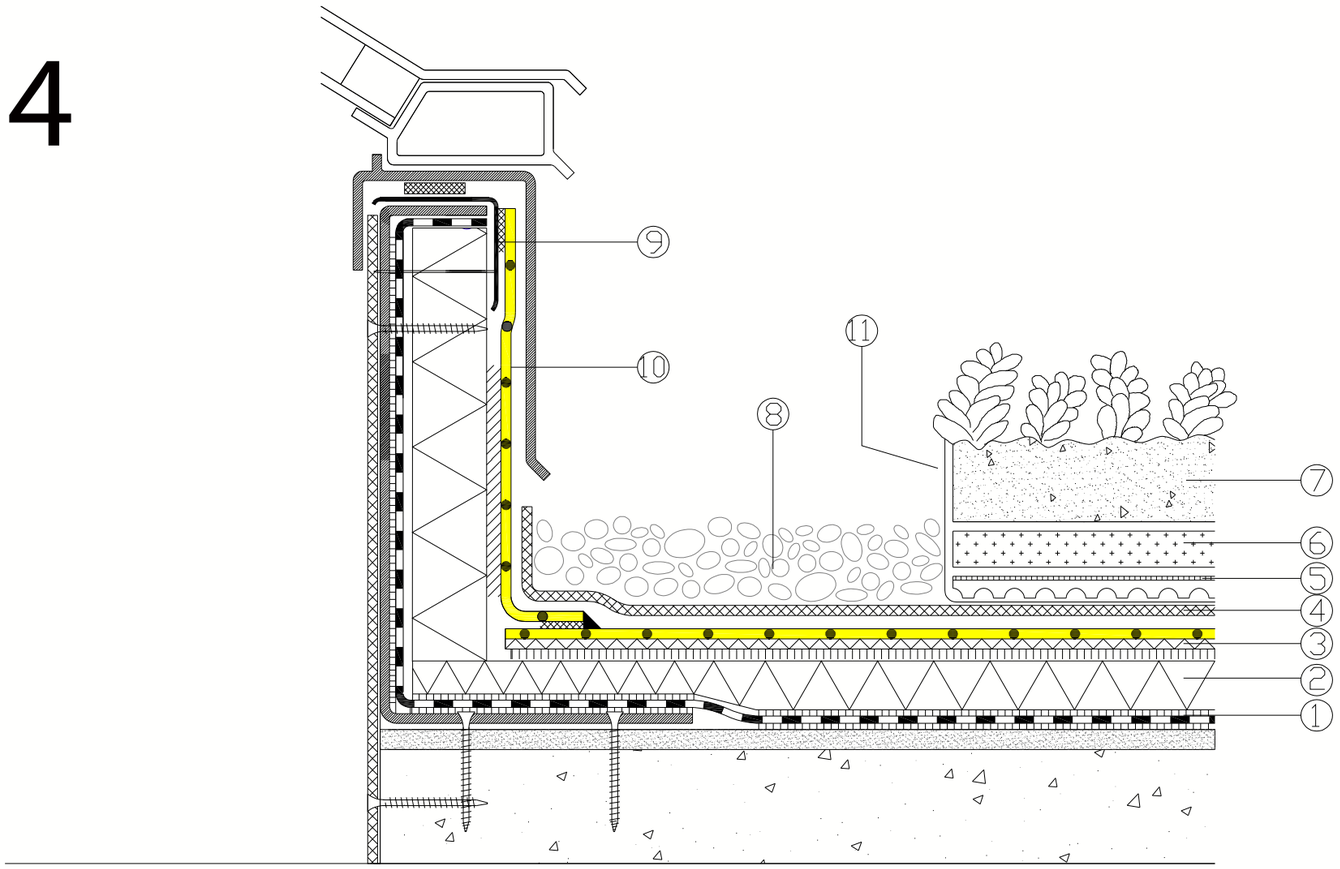
Detail 3


Eterno unico-stone
Drainage layer
Tempex
Screed
Slab floor
Concrete beams
Eterno unico-stone
Specie bed
Screed
Floor heating
Tempex
Slab floor
Concrete beam

Section B

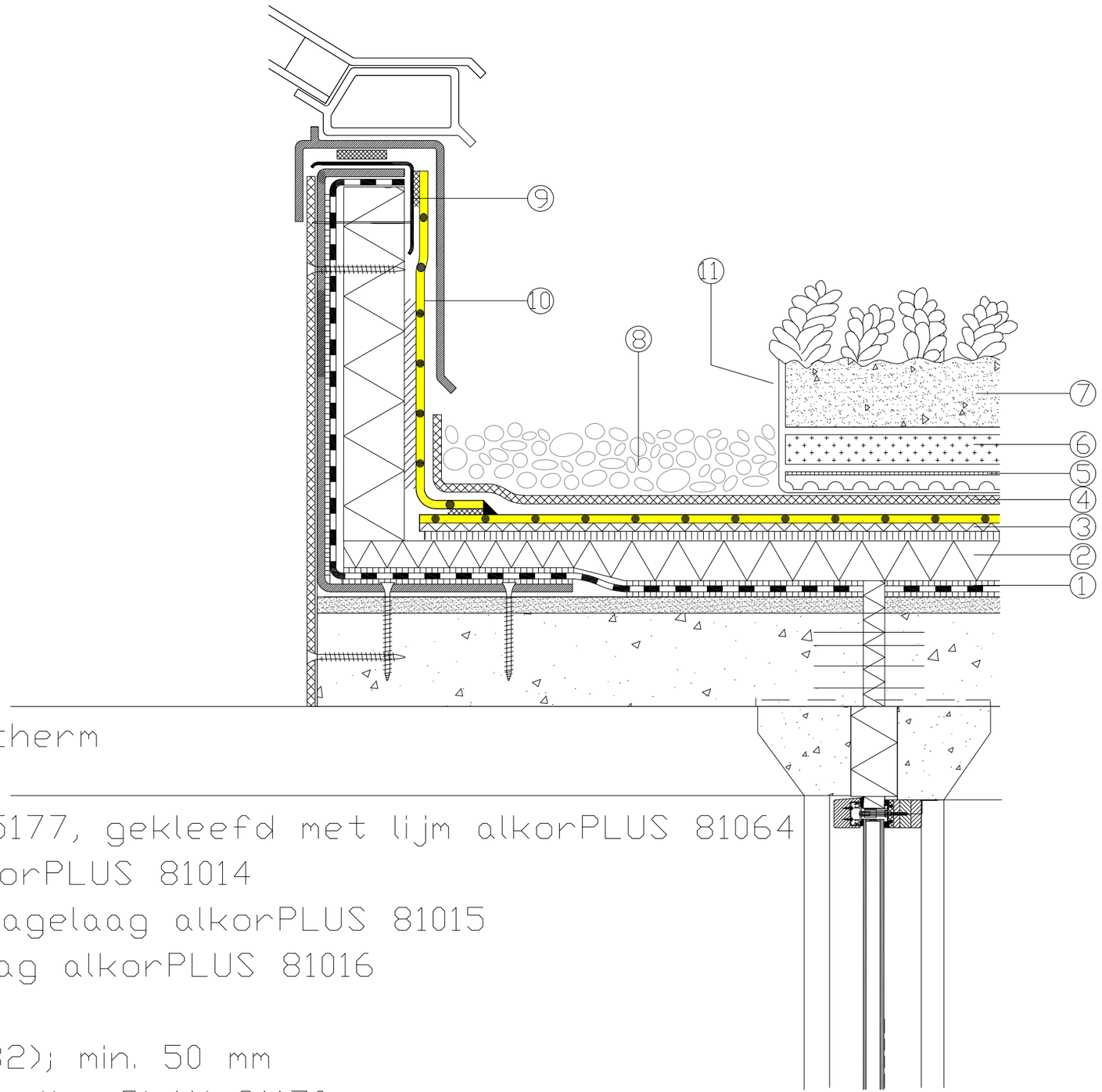


Detail 4



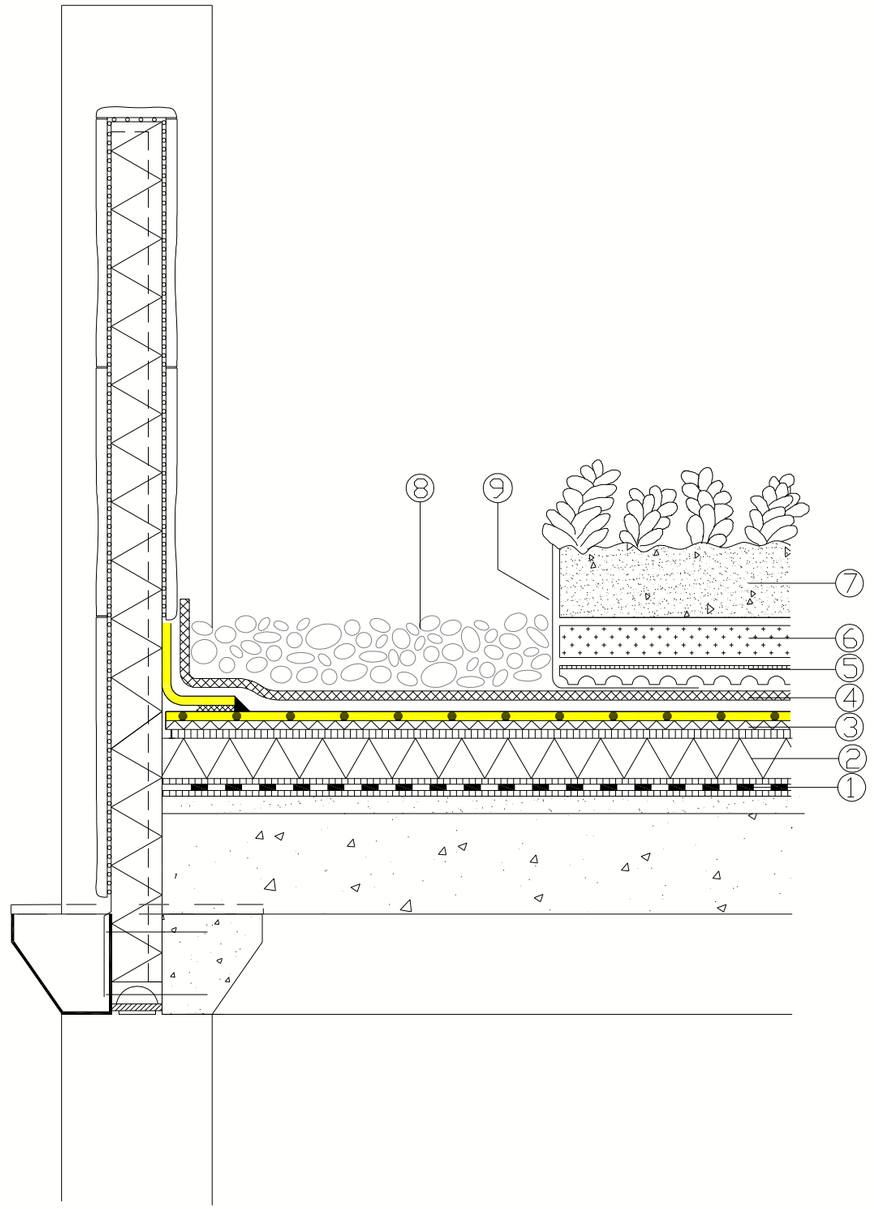
1. gekleefd dampscherm
2. isolatie
3. alkorPLAN LA 35177, gekleefd met lijm alkorPLUS 81064
4. glijdingslaag alkorPLUS 81014
5. filter- en drainagelaag alkorPLUS 81015
6. waterretentielaag alkorPLUS 81016
7. substraatlaag
8. grind (diam. 16/32); min. 50 mm
9. metaalfolieplaat alkorPLAN 81170
10. opkant in alkorPLAN L, gekleefd met contactlijm alkorPLUS 81040
11. grindvang

Detail 5



1. gekleefd dampscherm
2. isolatie
3. alkorPLAN LA 35177, gekleefd met lijm alkorPLUS 81064
4. glijdingslaag alkorPLUS 81014
5. filter- en drainagelaag alkorPLUS 81015
6. waterretentielaag alkorPLUS 81016
7. substraatlaag
8. grind (diam. 16/32); min. 50 mm
9. metaalfolieplaat alkorPLAN 81170
10. opkant in alkorPLAN L, gekleefd met contactlijm alkorPLUS 81040
11. grindvang

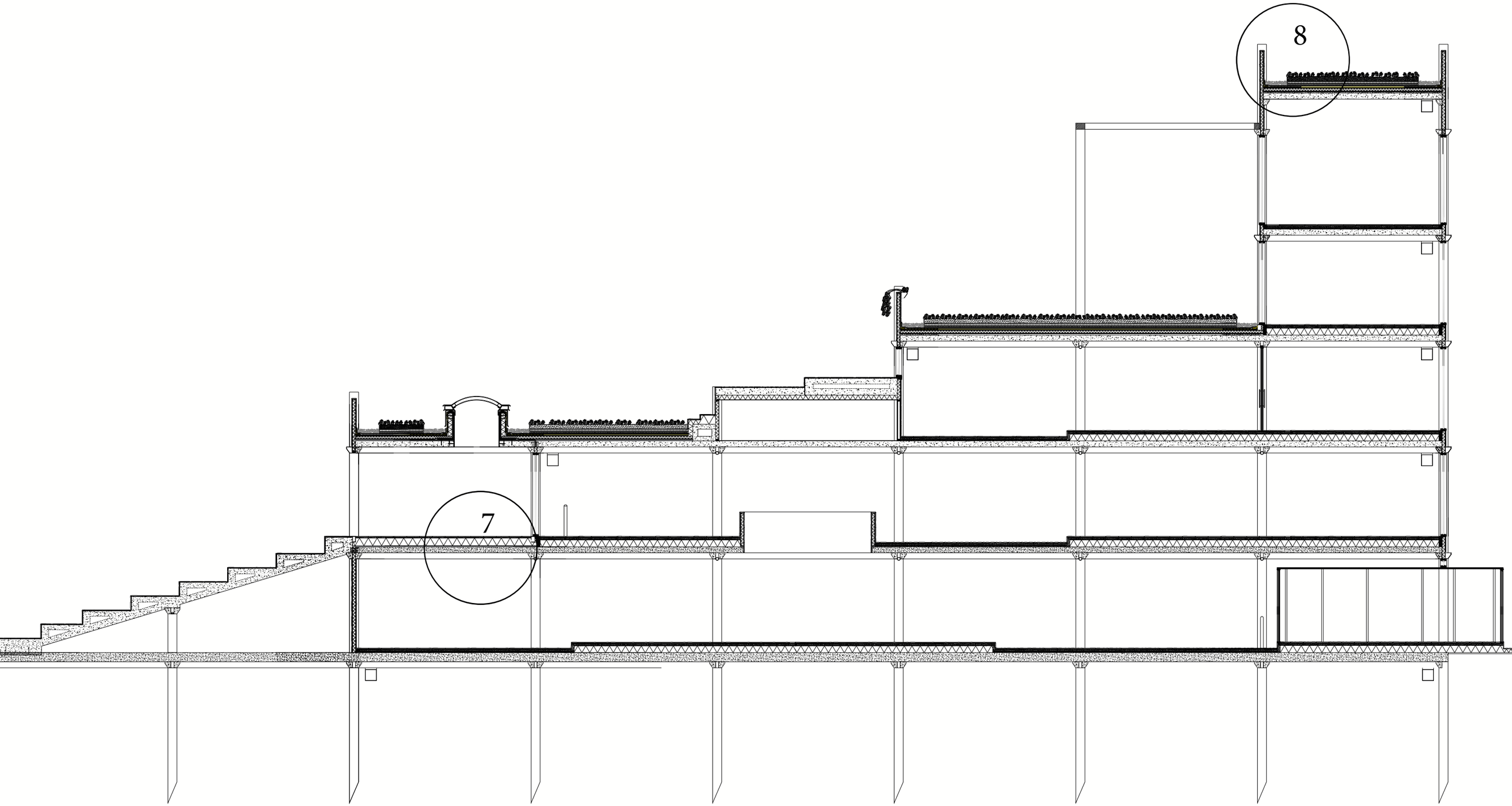
Detail 6



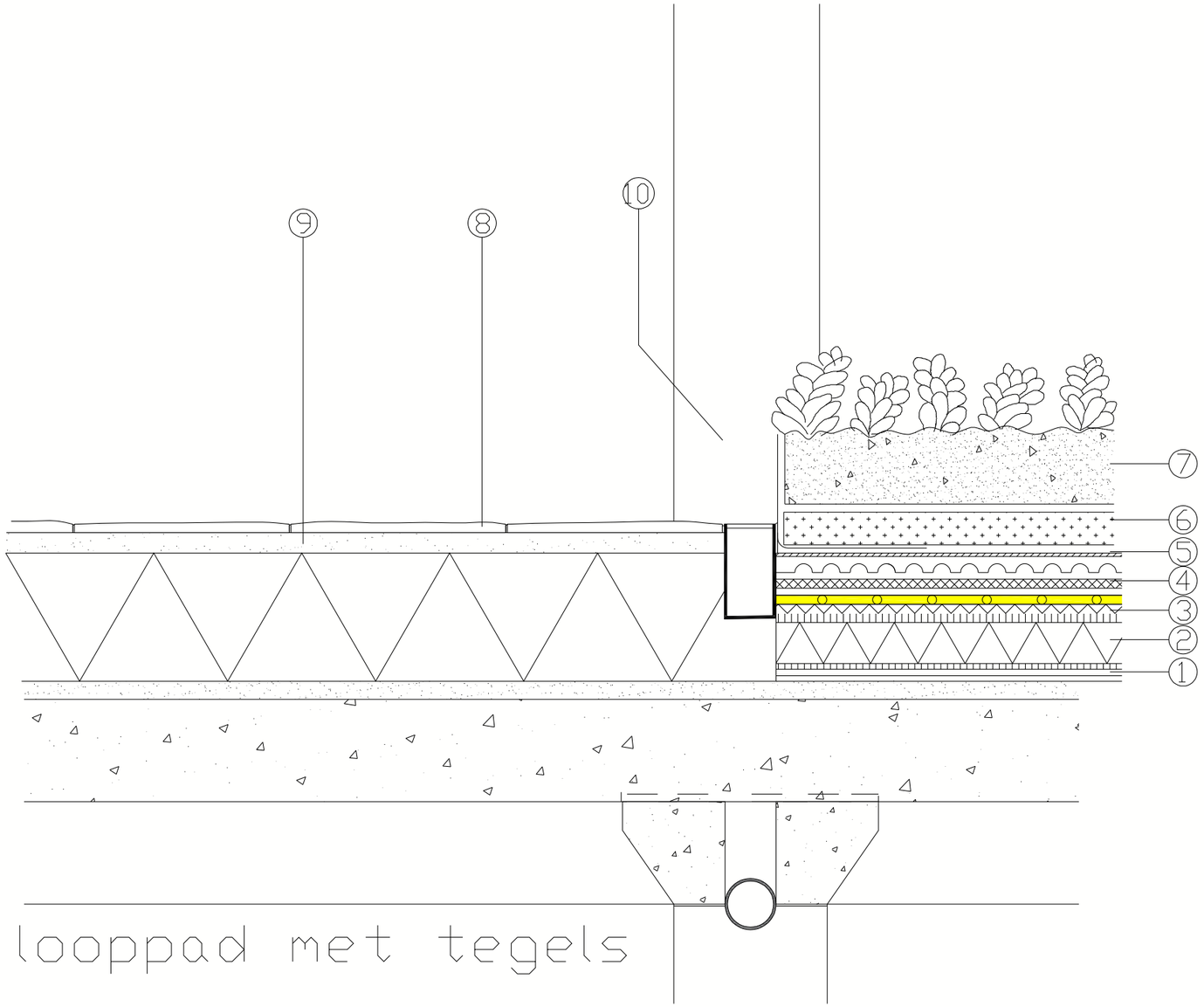
Borstwering

1. gekleefd dampscherm
2. isolatie
3. alkorPLAN LA 35177, gekleefd met lijm alkorPLUS 81064
4. glijdingslaag alkorPLUS 81014
5. filter- en drainagelaag alkorPLUS 81015
6. waterretentielaag alkorPLUS 81016
7. substraatlaag
8. grind (diam. 16/32)
9. grindvang

Section B



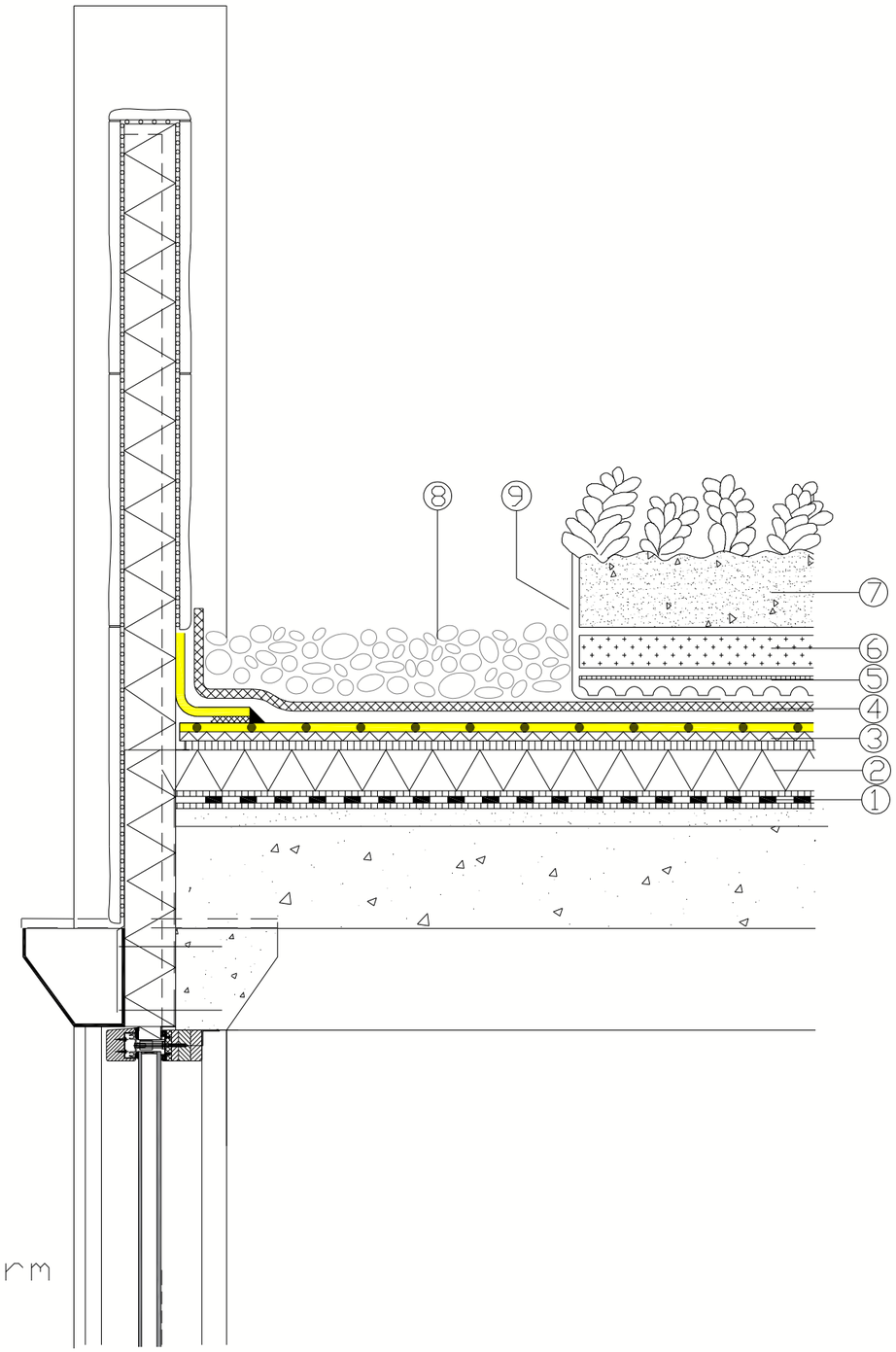
Detail 7



Aansluiting aan looppad met tegels

1. gekleefd dampscherm
2. isolatie
3. alkorPLAN LA 35177, gekleefd met lijm alkorPLUS 81064
4. glijdingslaag alkorPLUS 81014 of beschermbaan alkorPLAN 35121
5. filter- en drainagelaag alkorPLUS 81015
6. waterretentielaag alkorPLUS 81016
7. substraatlaag
8. Tegels
9. gestabiliseerd zand
10. grindvang

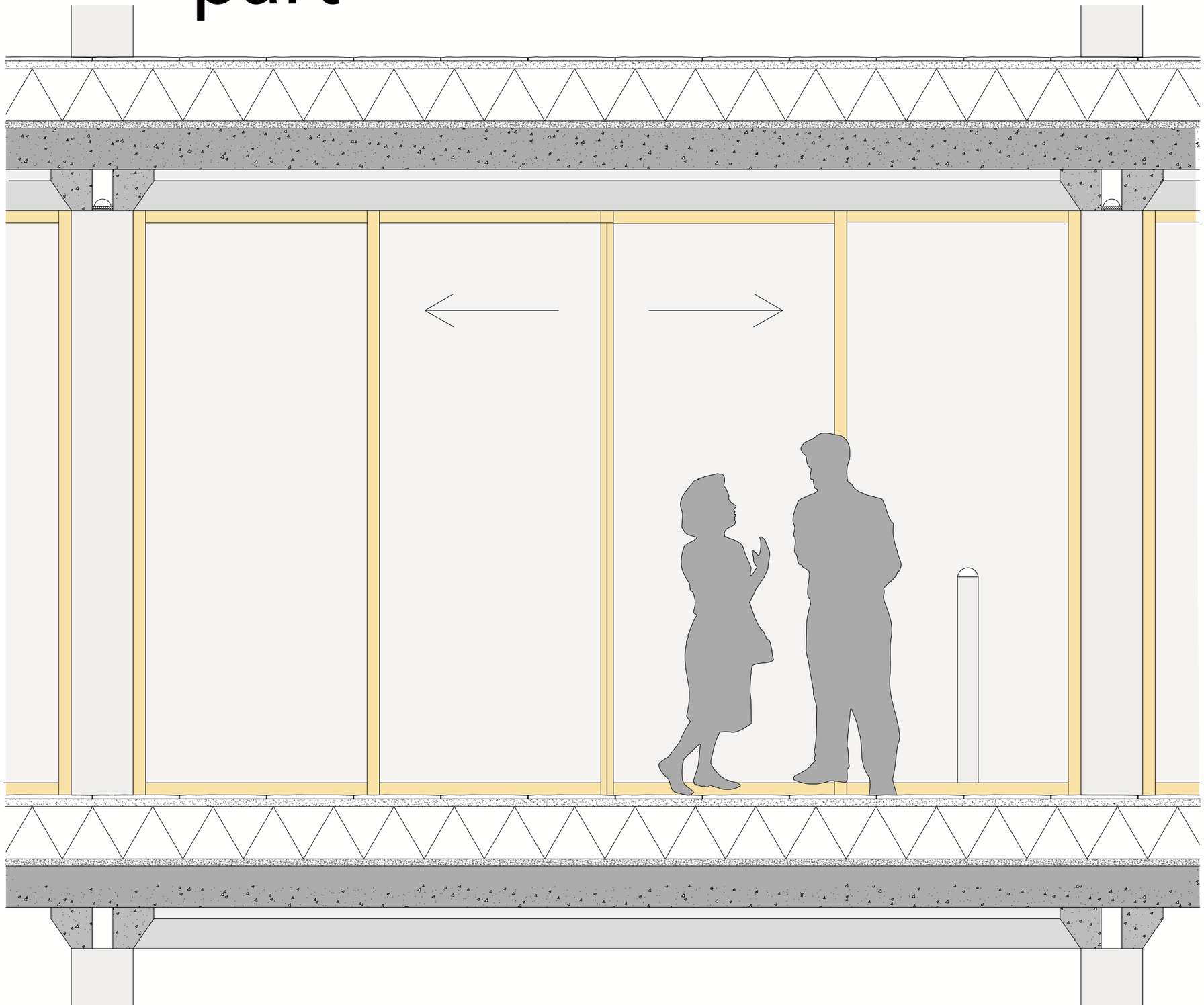
Detail 8

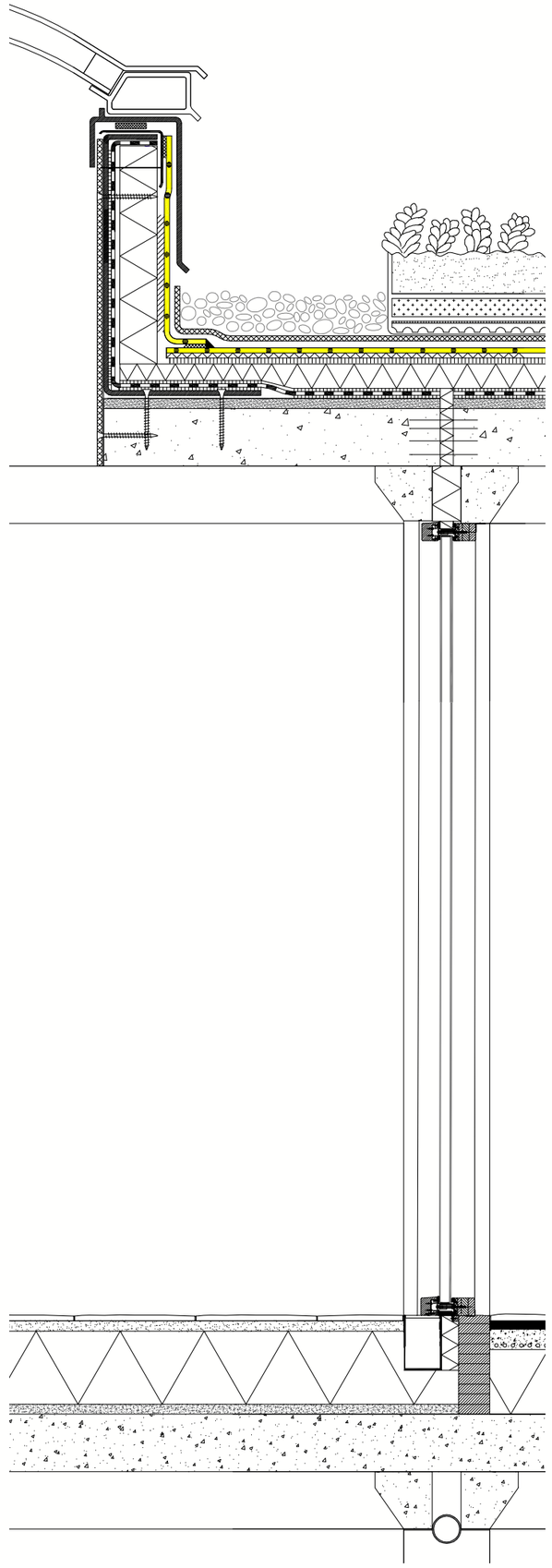


Borstwering

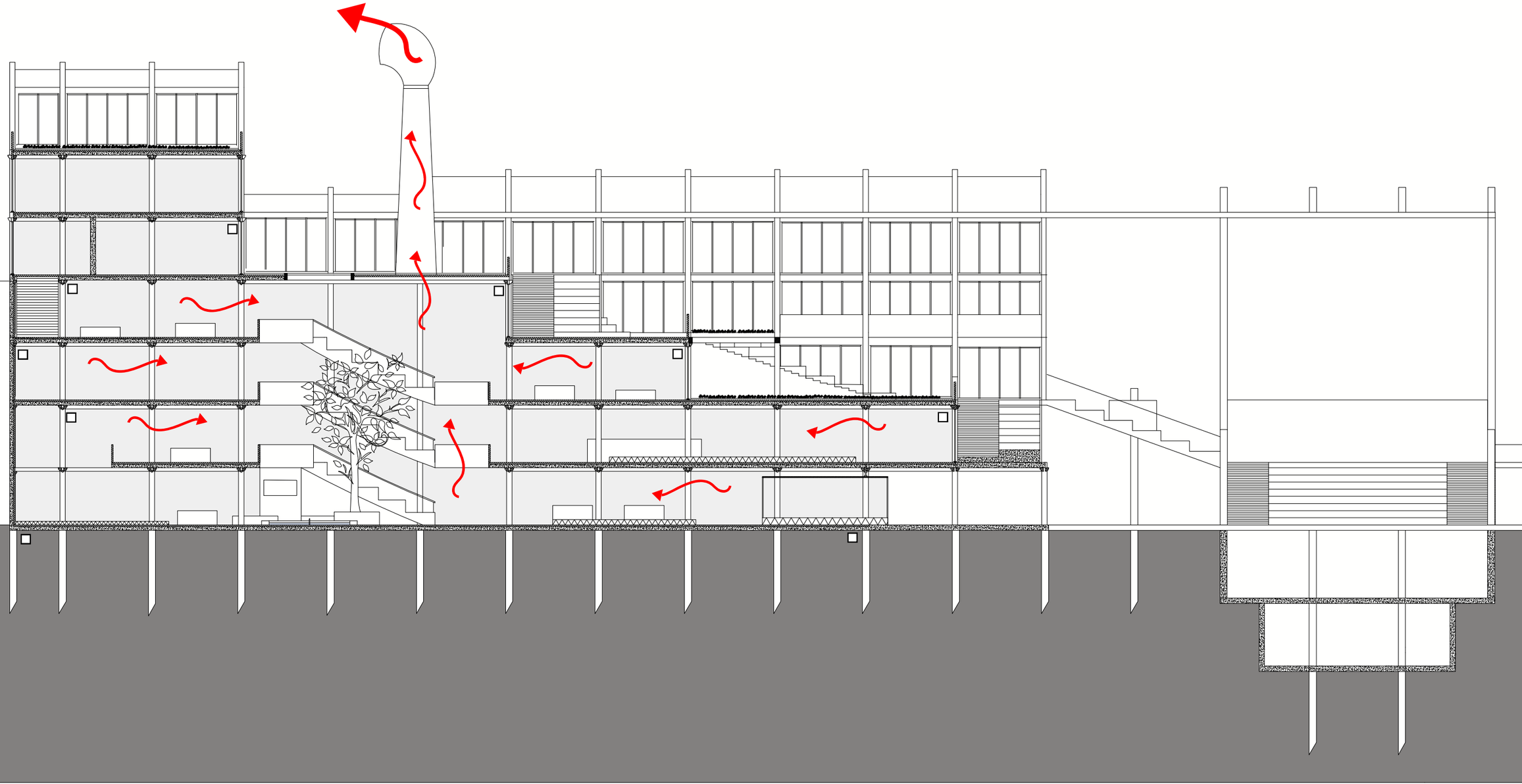
1. gekleefd dampscherm
2. isolatie
3. alkorPLAN LA 35177, gekleefd met lijm alkorPLUS 81064
4. glijdingslaag alkorPLUS 81014
5. filter- en drainagelaag alkorPLUS 81015
6. waterretentielaag alkorPLUS 81016
7. substraatlaag
8. grind (diam. 16/32)
9. grindvang

Facade part

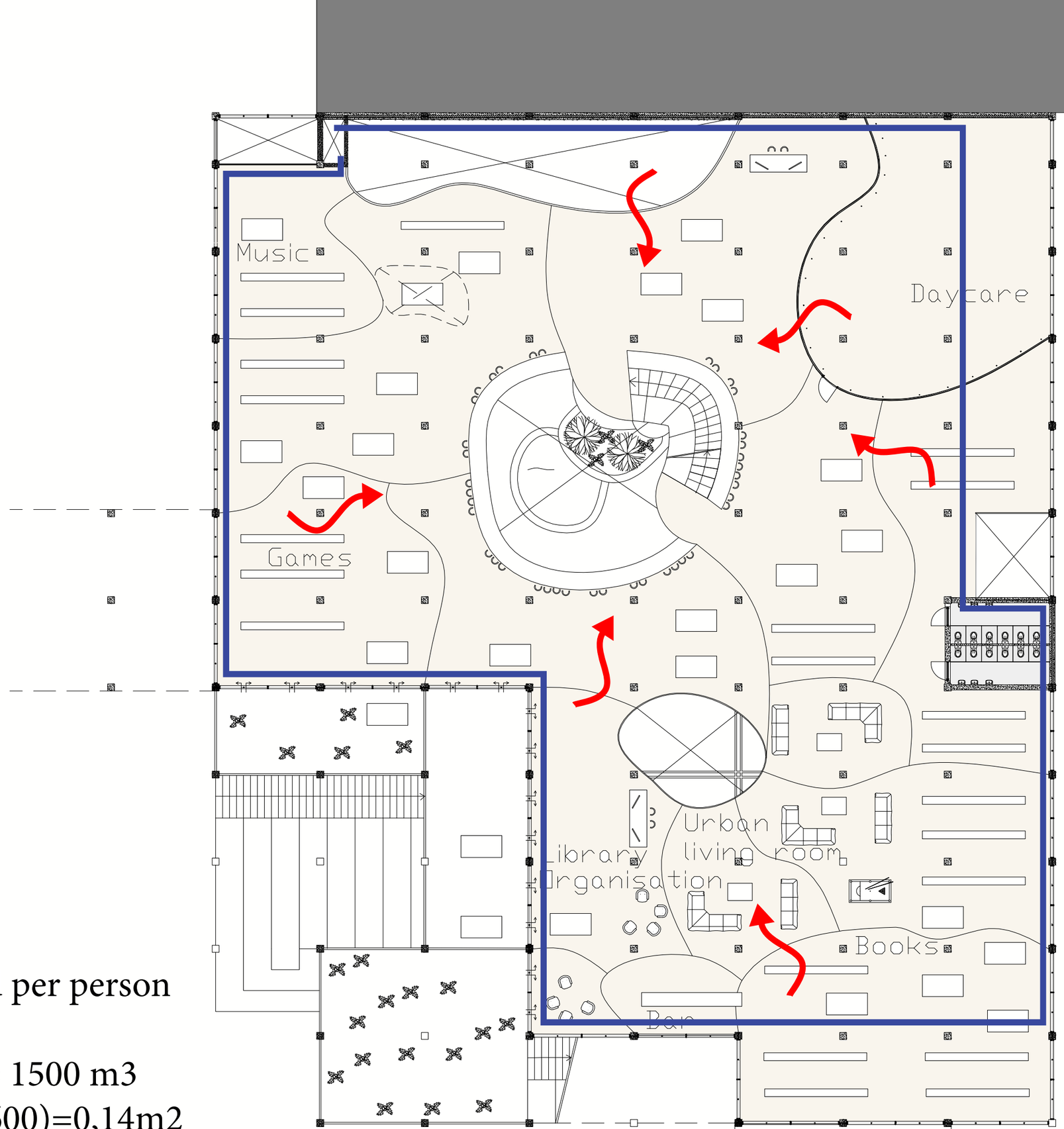




Solar chimney for ventilation



+01

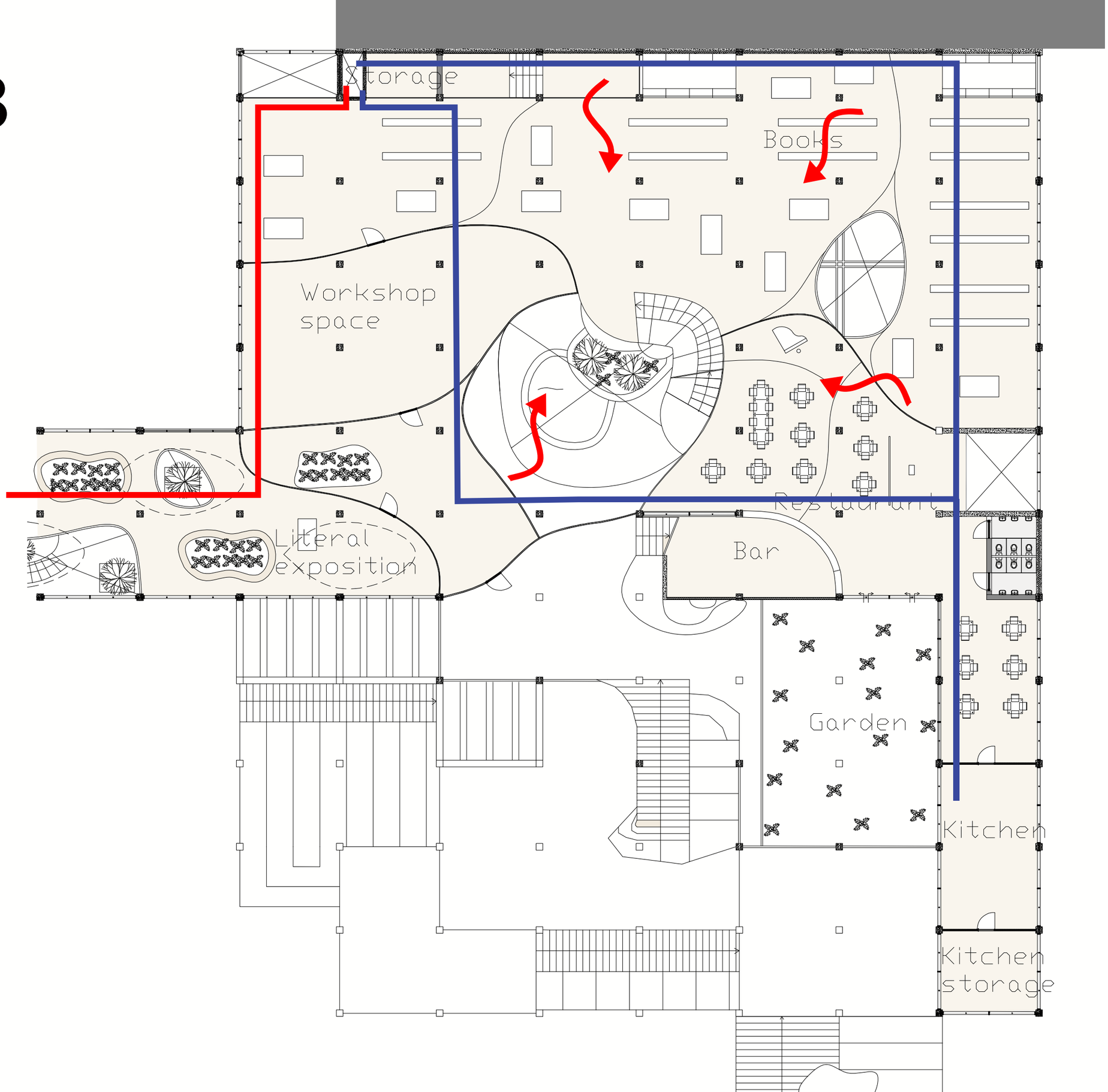


Ventilation shaft size:

For:
30 people per floor
Speed of 3m3
50 m3/h of air needed per person

Air needed per hour= 1500 m3
Shaft m2= 1500/(3*3600)=0,14m2
This gives a square shaft with a diameter of 0,37m

+03


Storage
Books
Workshop
space
Literal
exposition
Restaurant
Bar
Garden
Kitchen
Kitchen
storage

Square size

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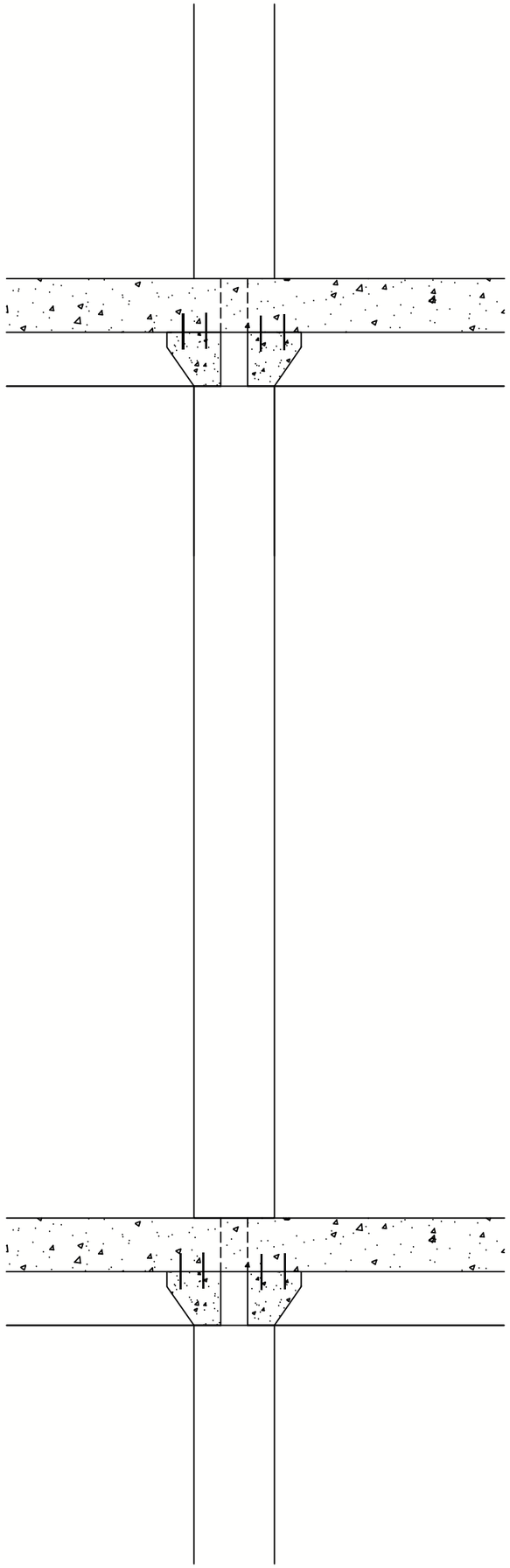
The End

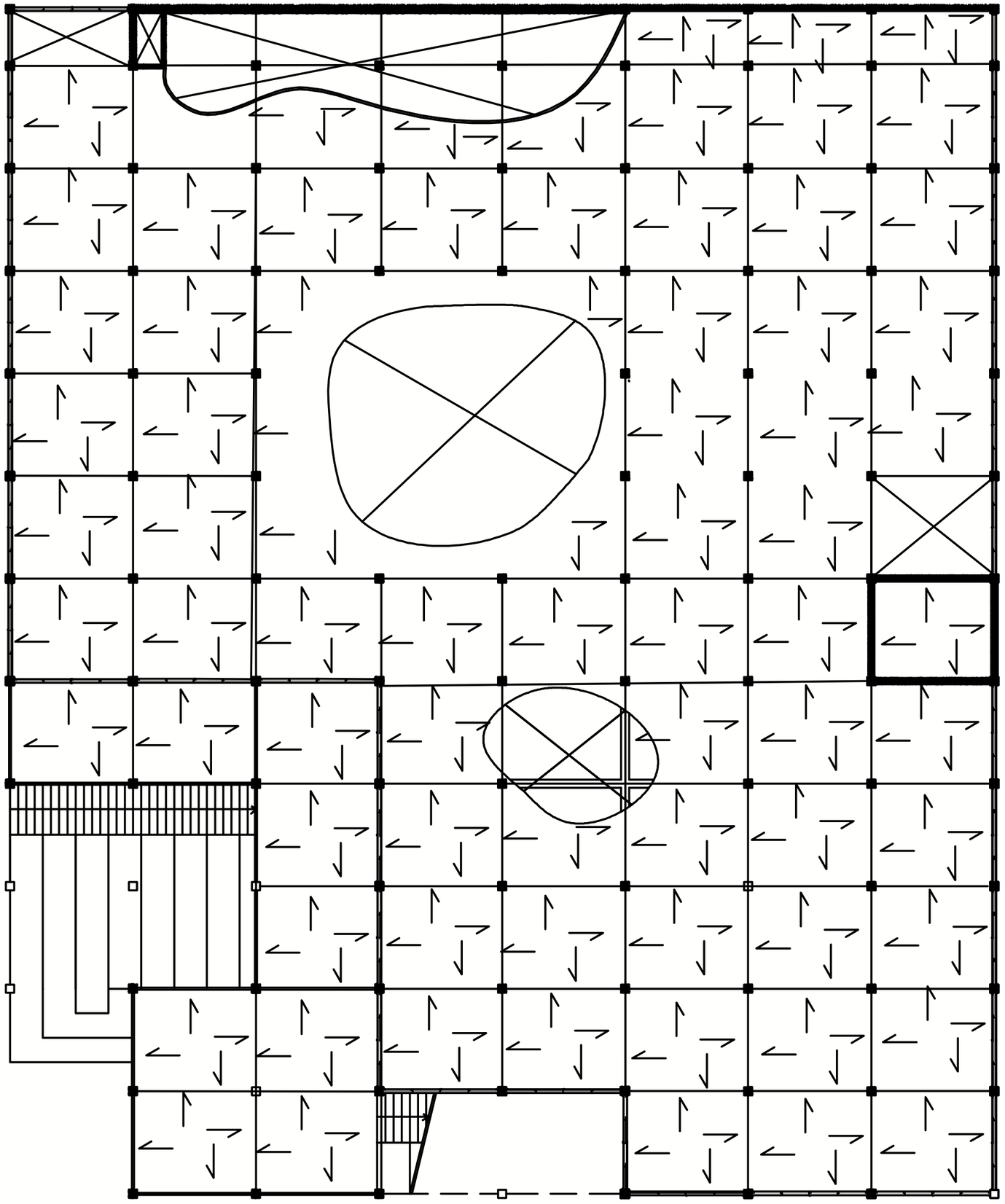
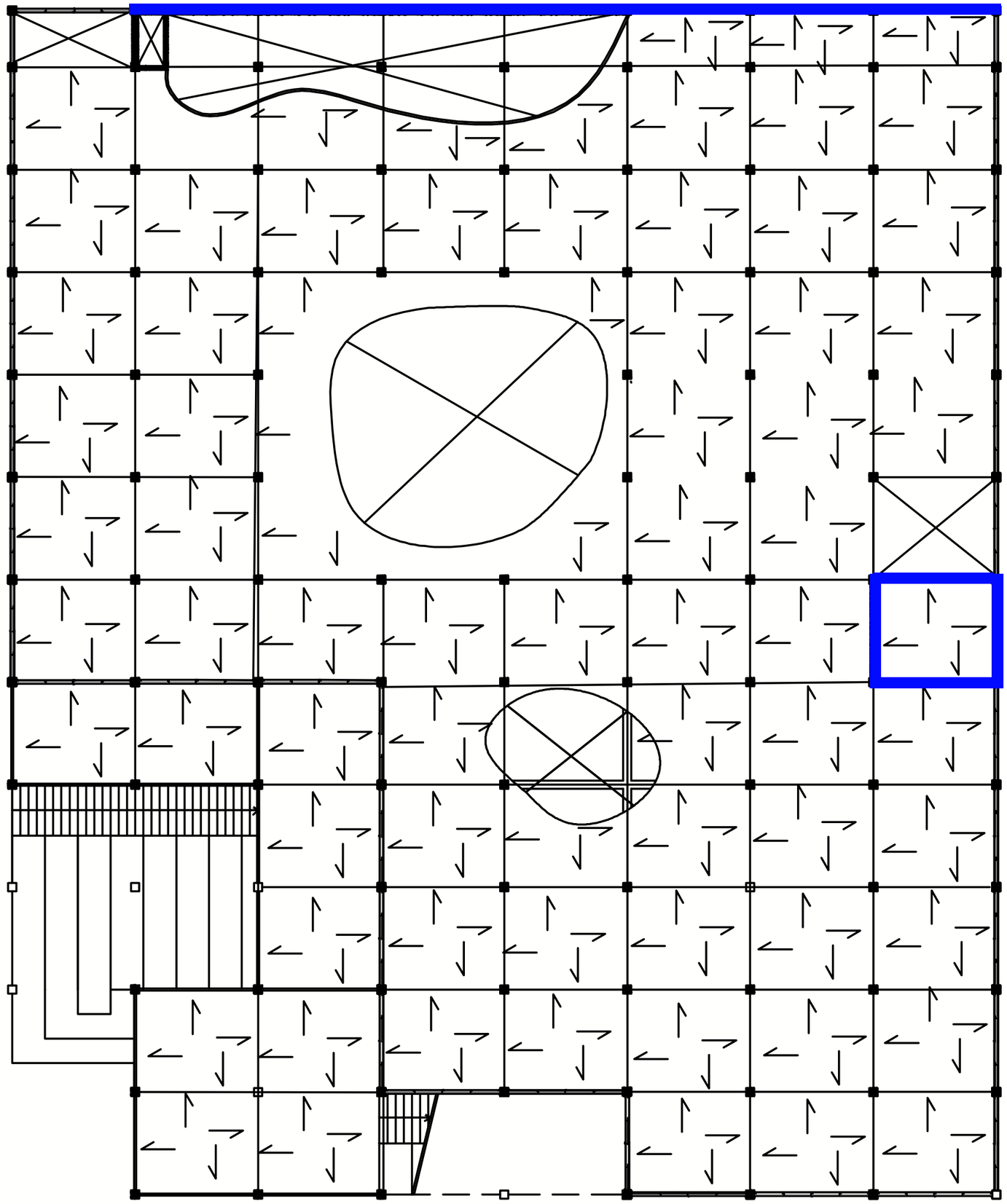
Floor 200 mm
Beam 200 mm



Slab floor is 1/30 of range (6000mm)= 200 mm

Beam is 1/15 of range (6000mm)= 400 mm
By connecting beam and floor, the floor will function as a beam and can be used for height of the beam. An individual beam can therefore be 200 mm high

Forces in floors



Stability by slab + core