

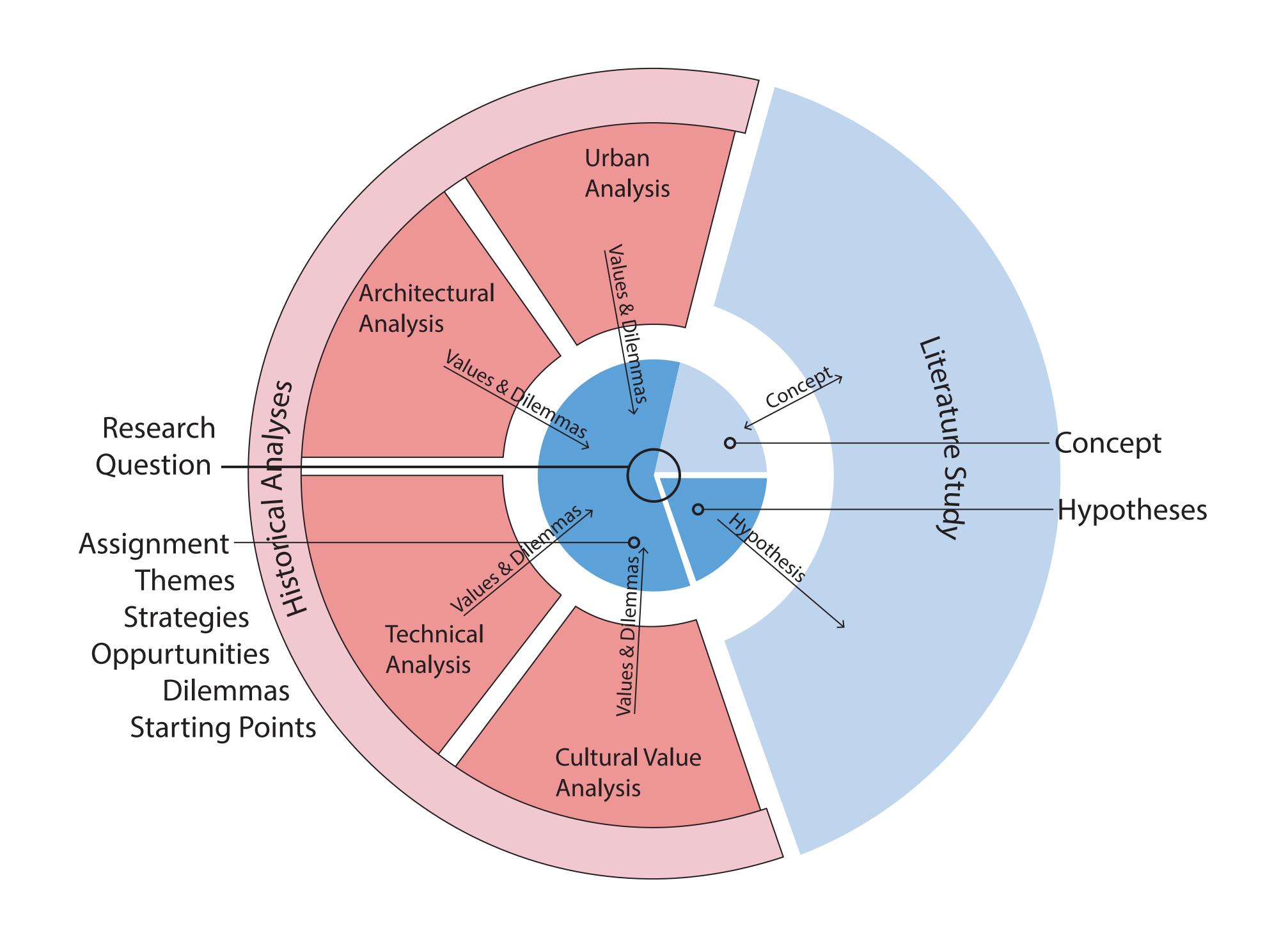


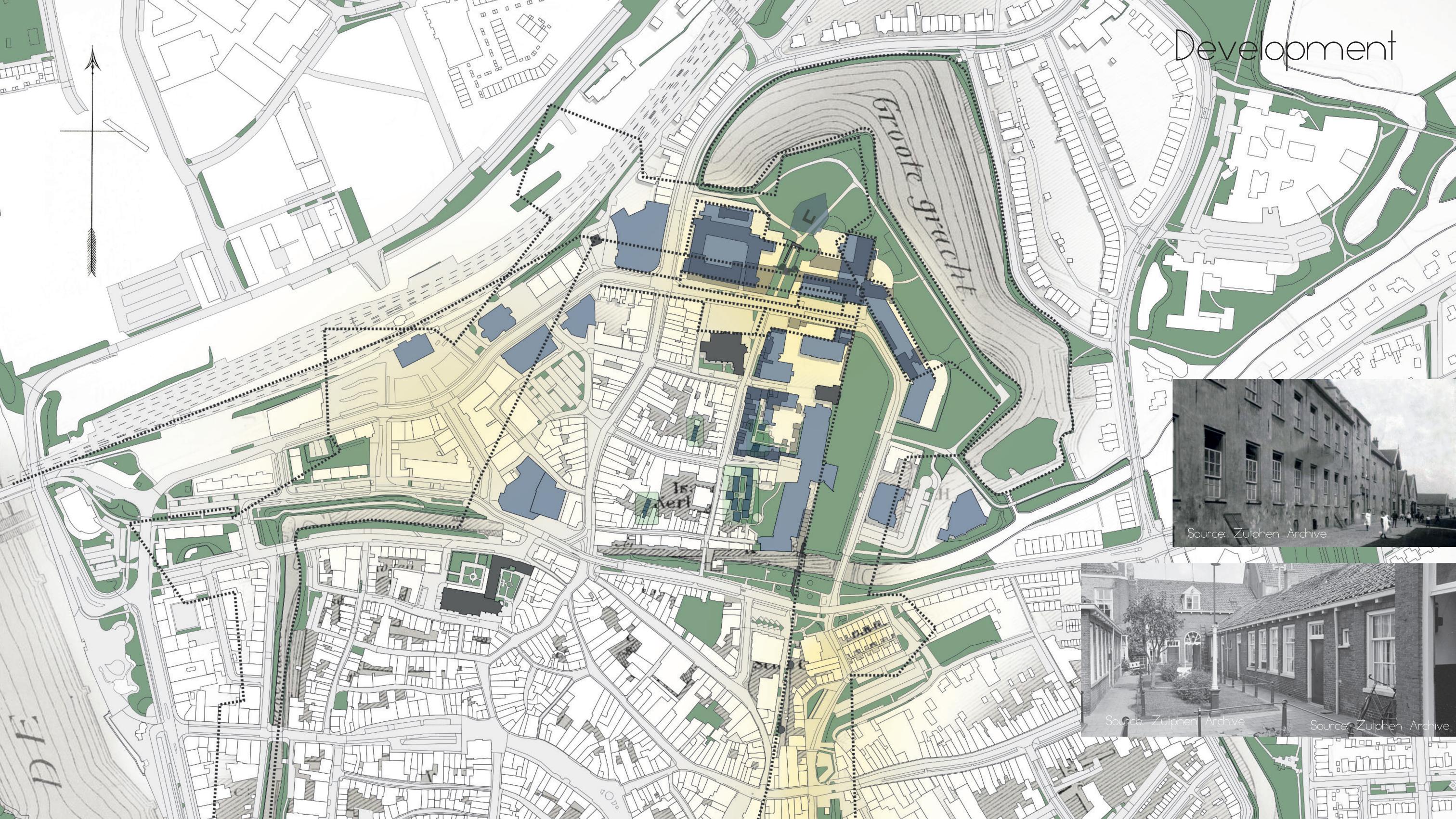


Content

Analysis
Concept
Design

# Analysis

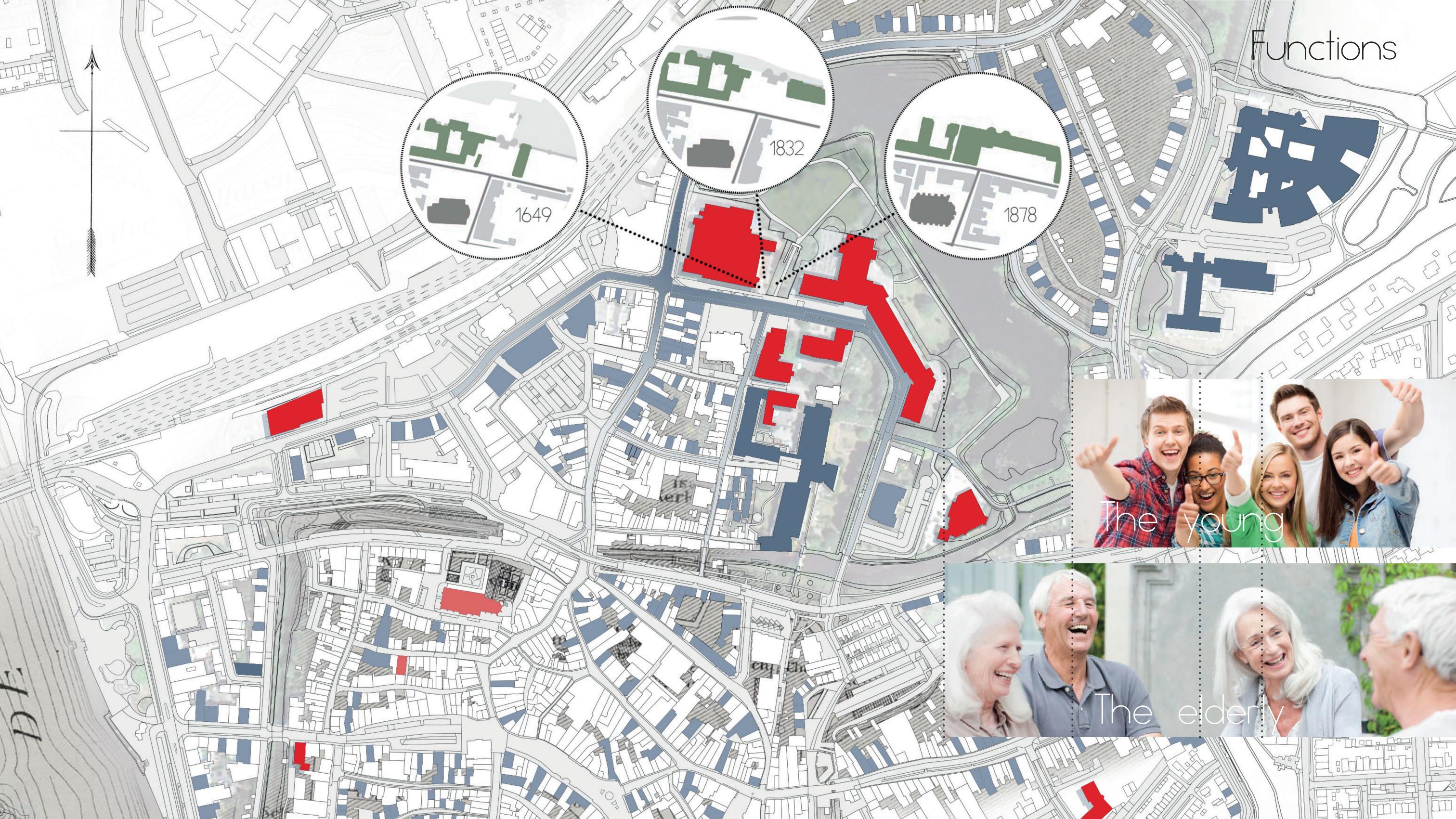








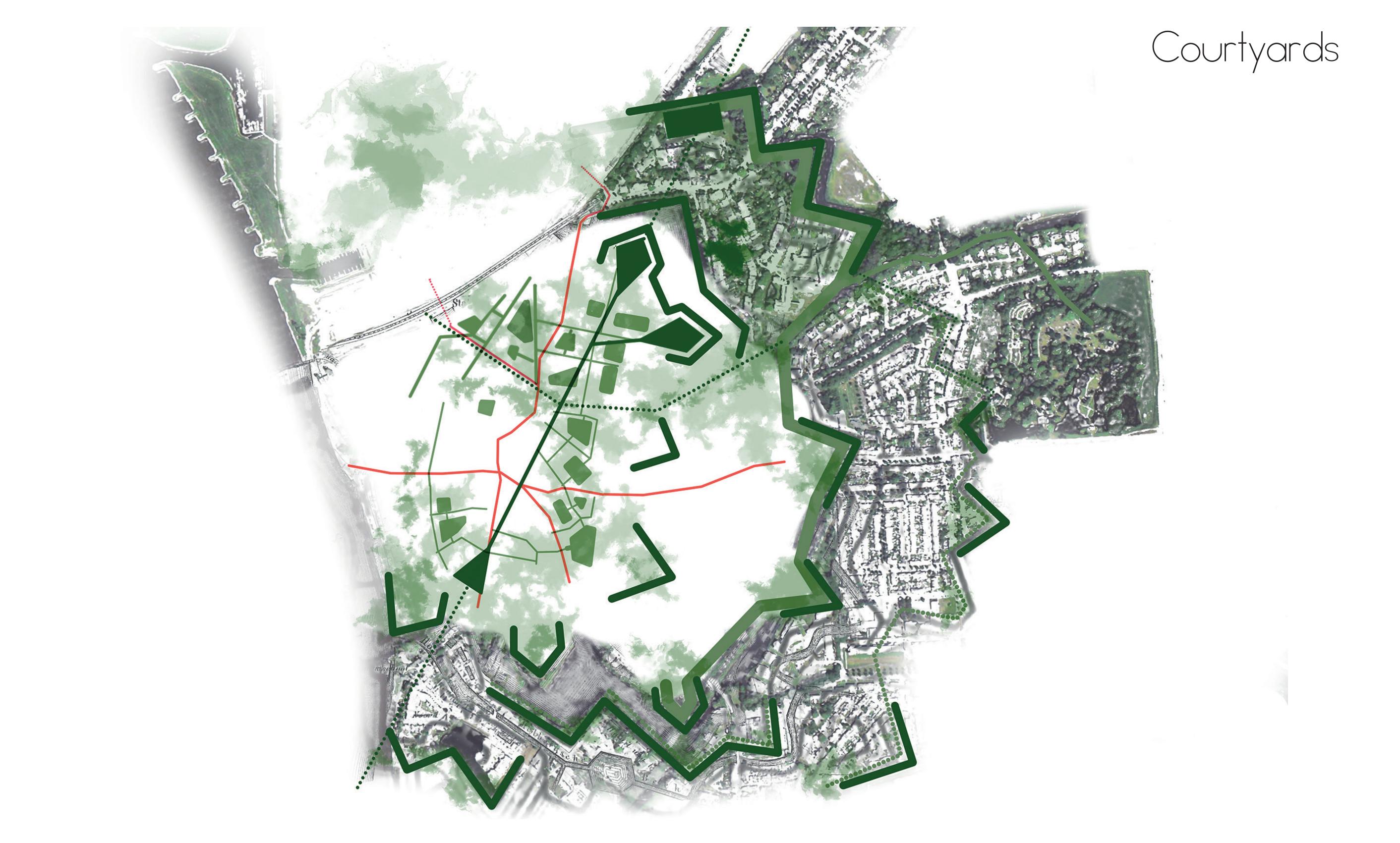


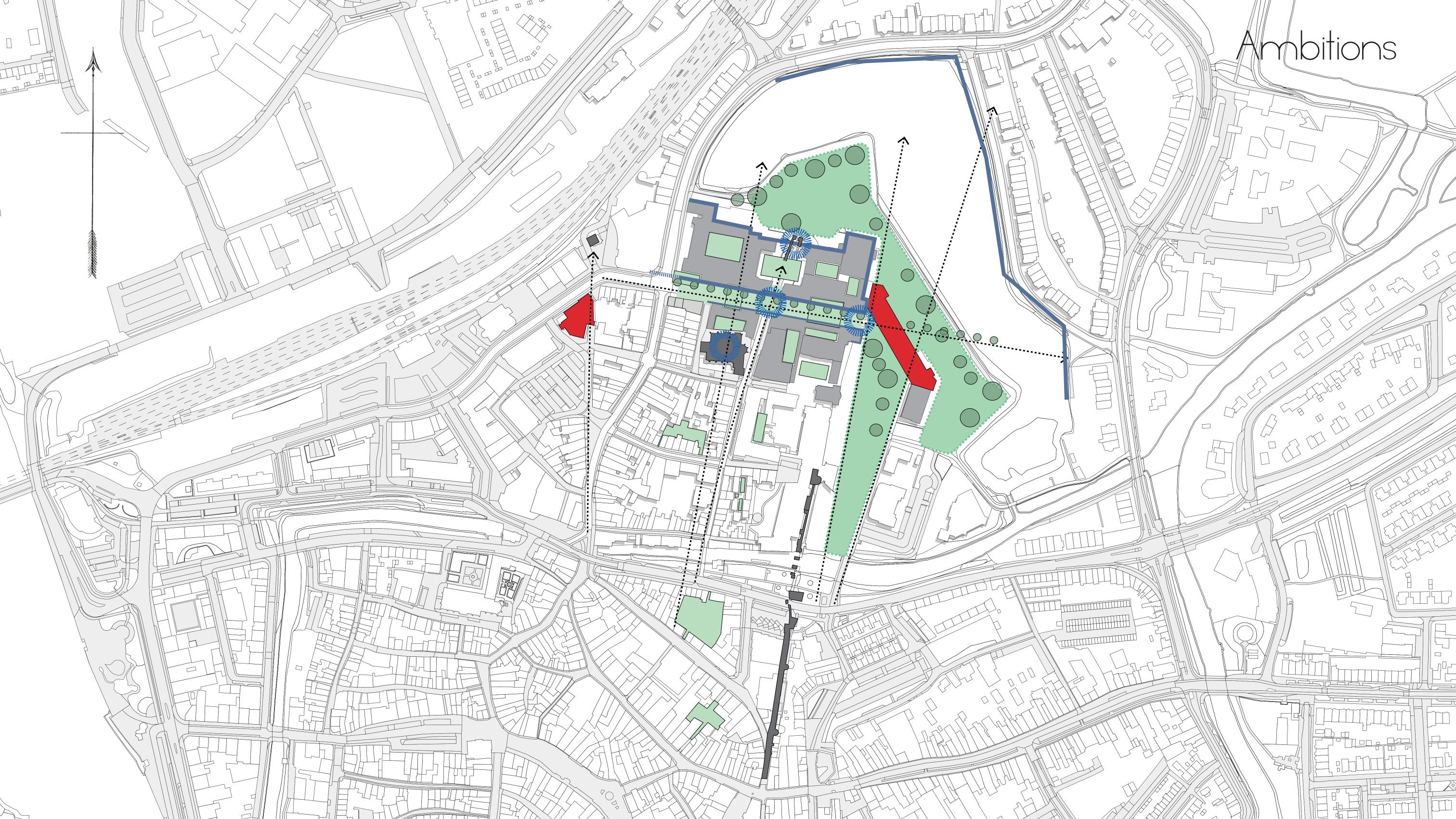






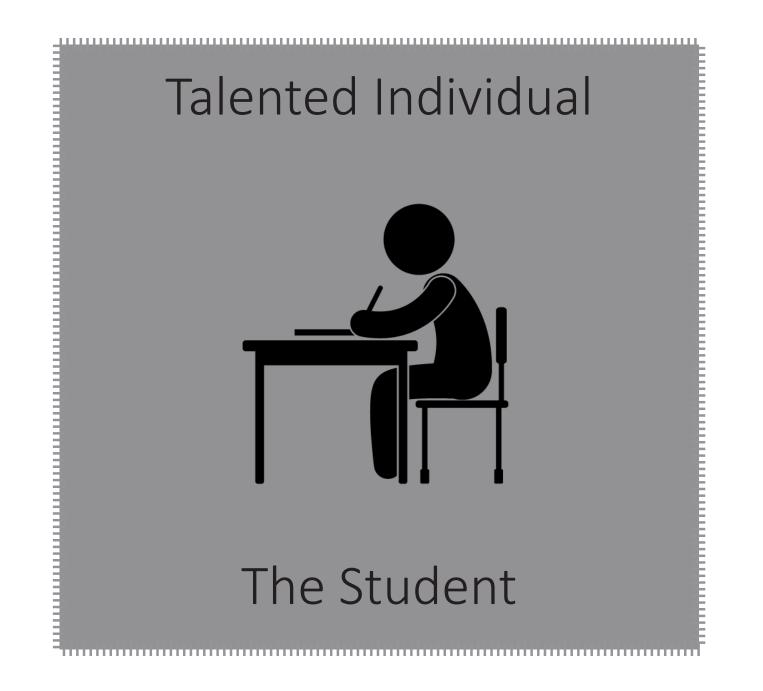


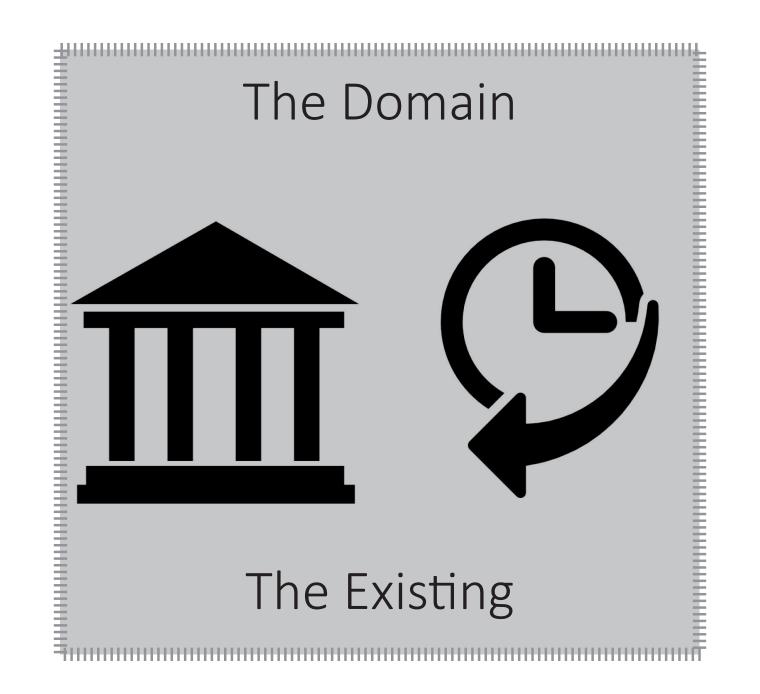






## Concept







Knowledge Functions

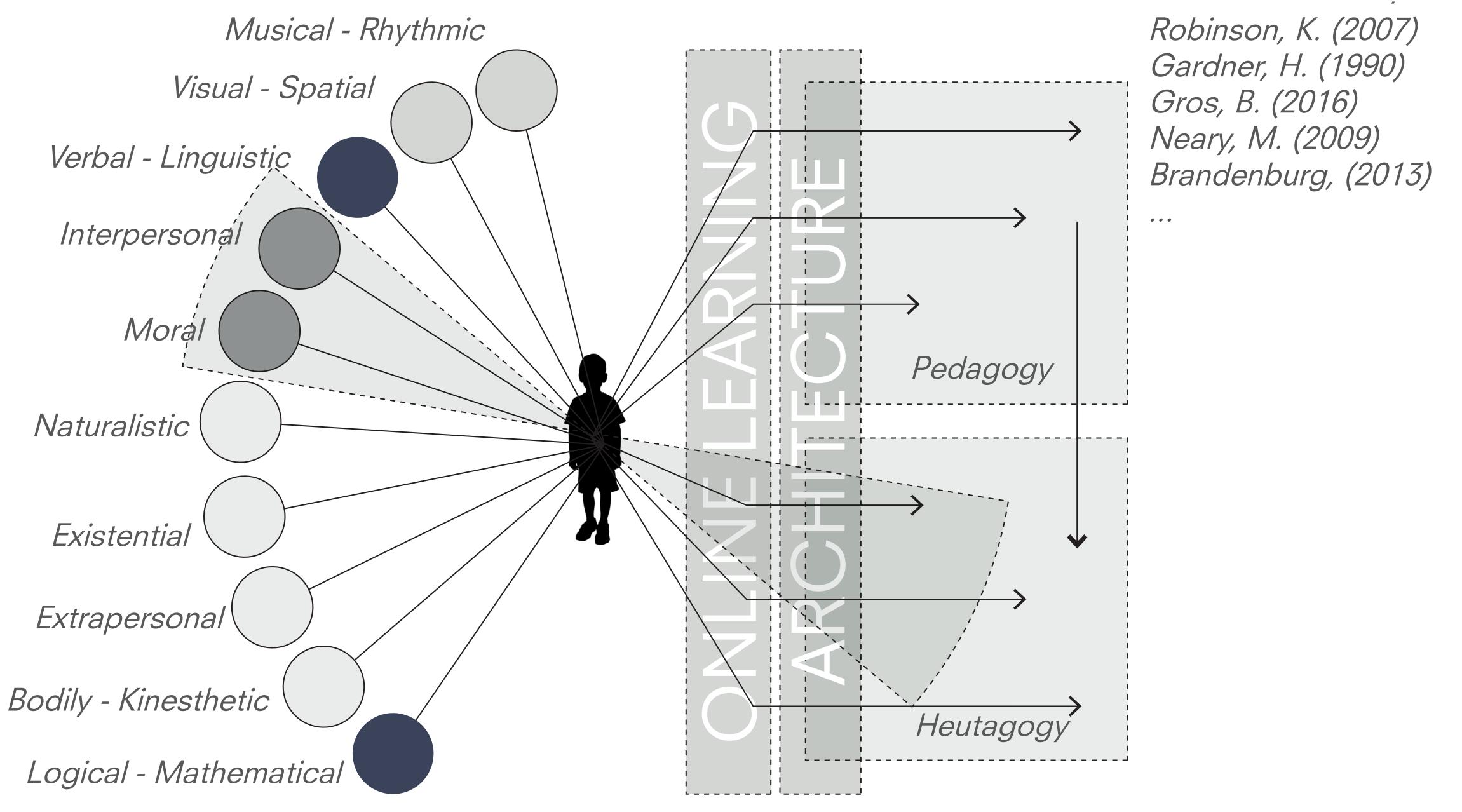
The School

The Depot

The Museum

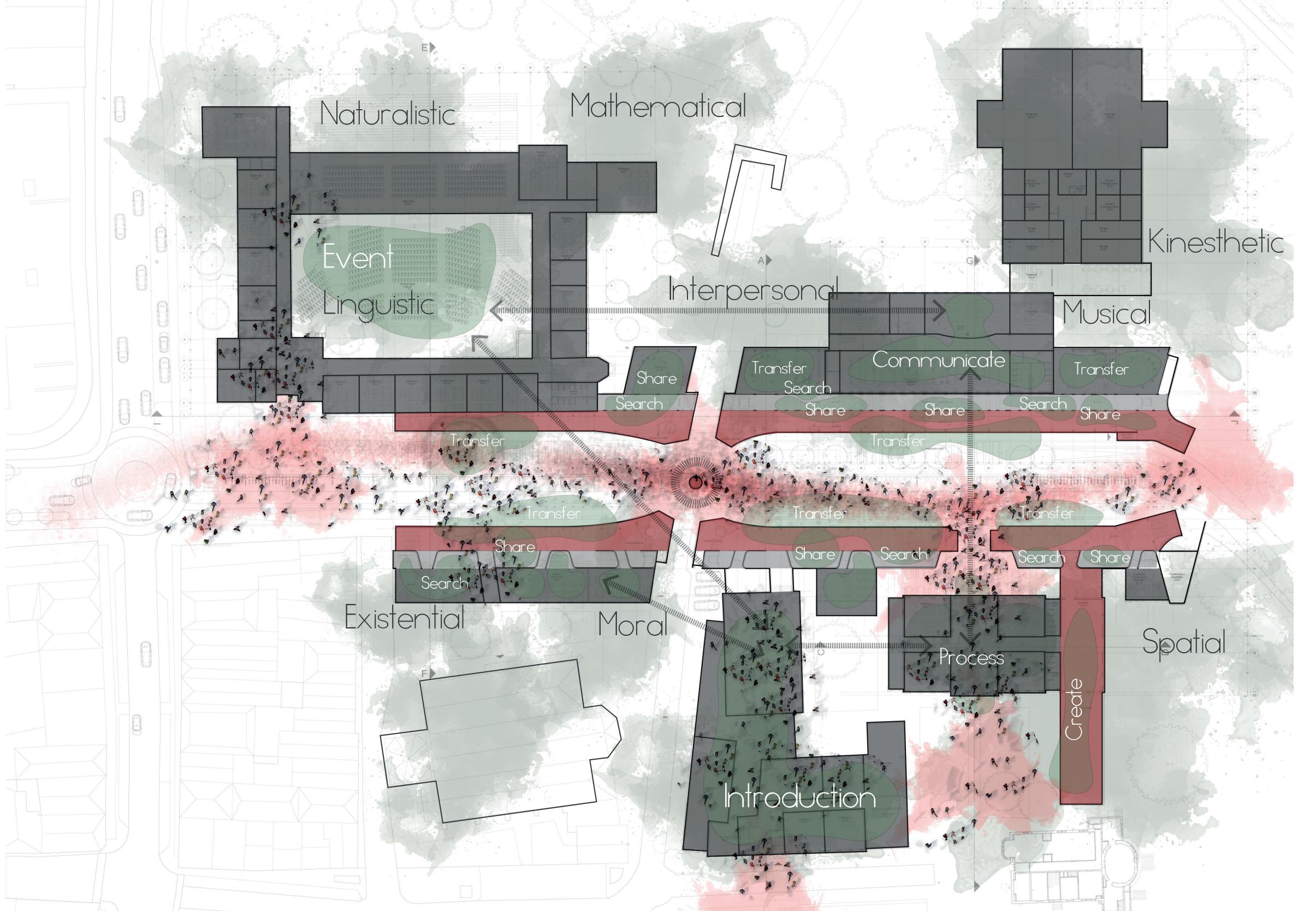
The Learners Institute

### Educational System based on Multiple Intelligence Theory

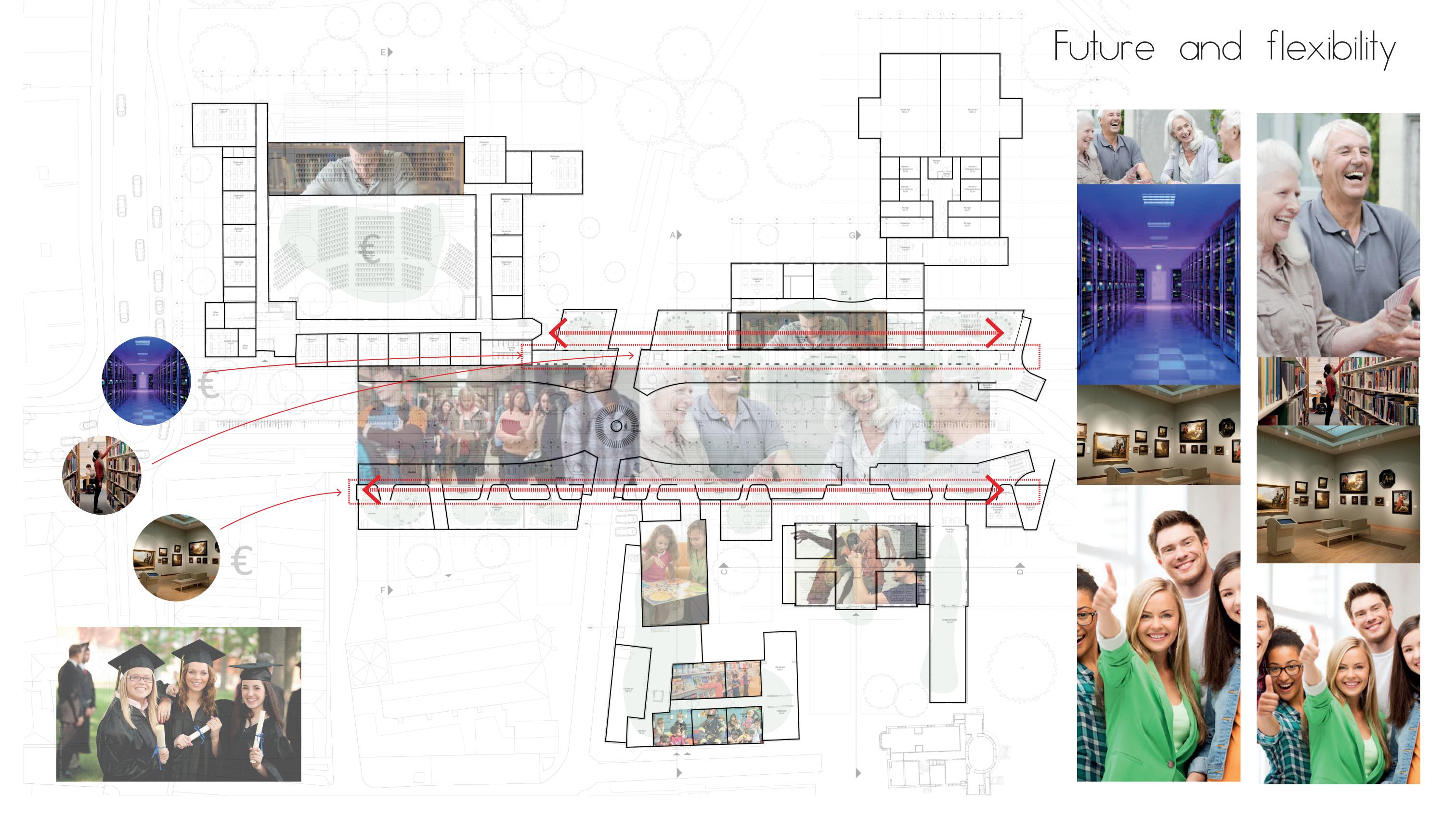


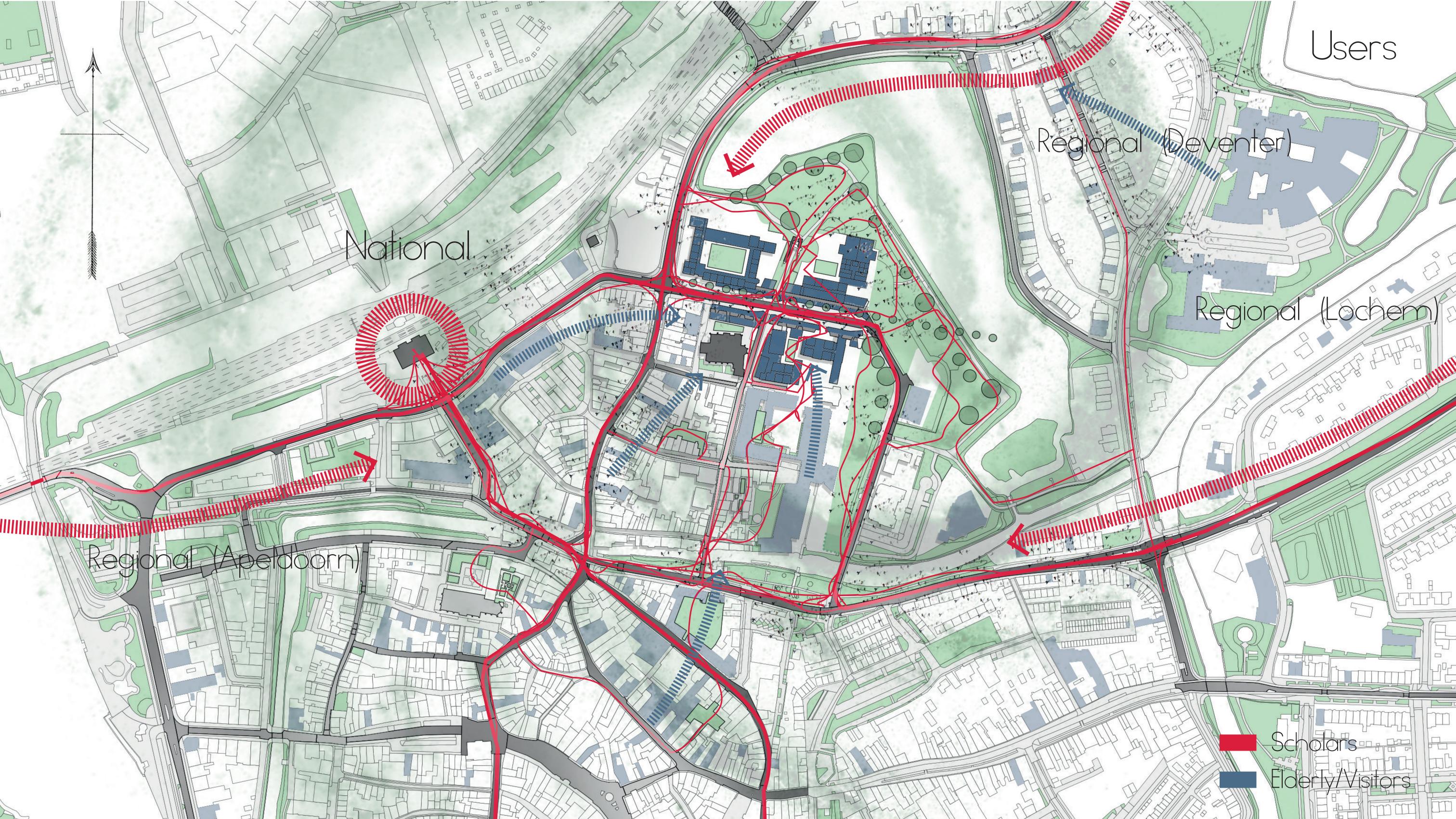
Gardner, H., (1999). Intelligence Reframed: Multiple Intelligences for the 21 st century. New York: Basic Books

#### The Field

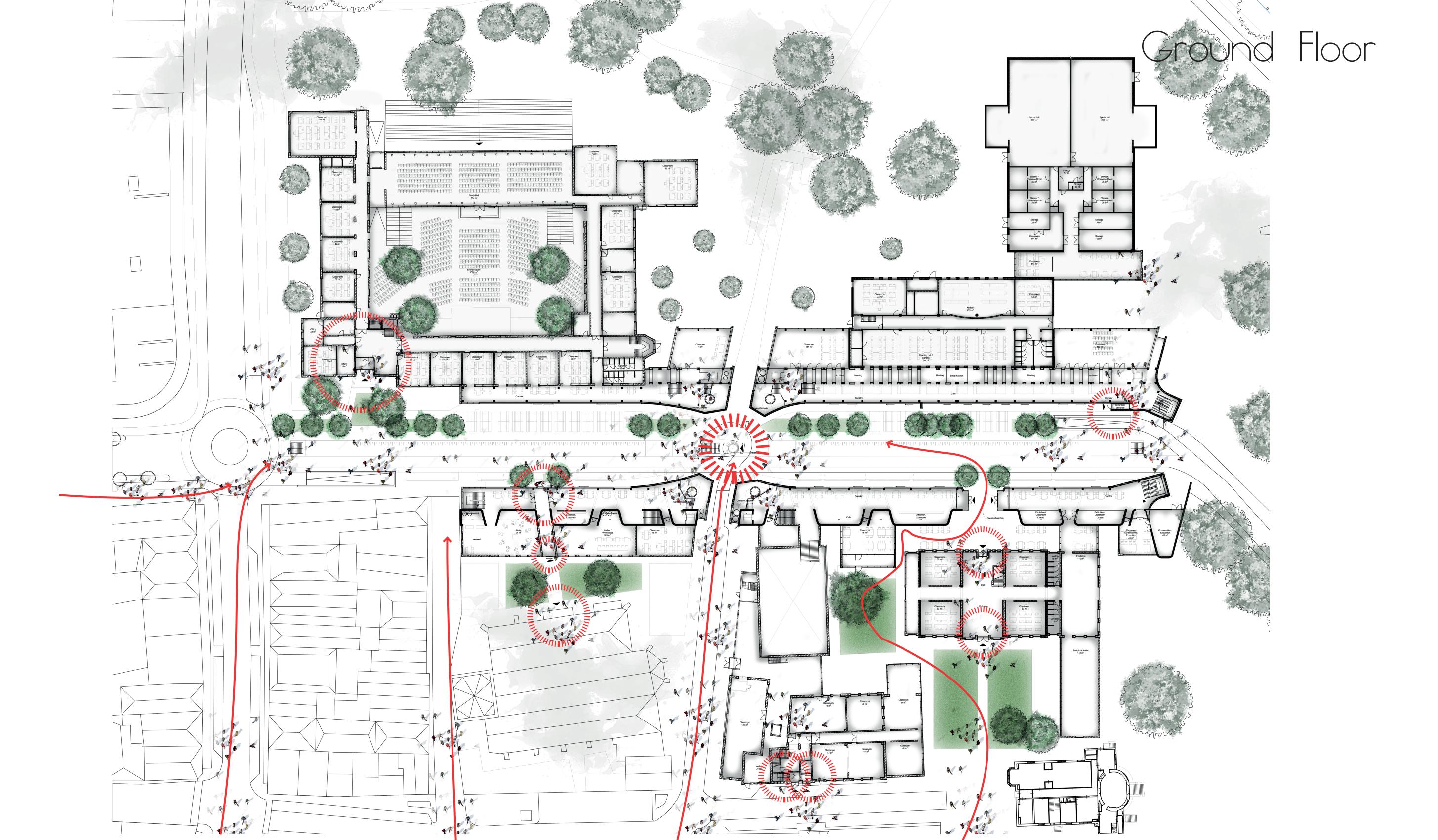


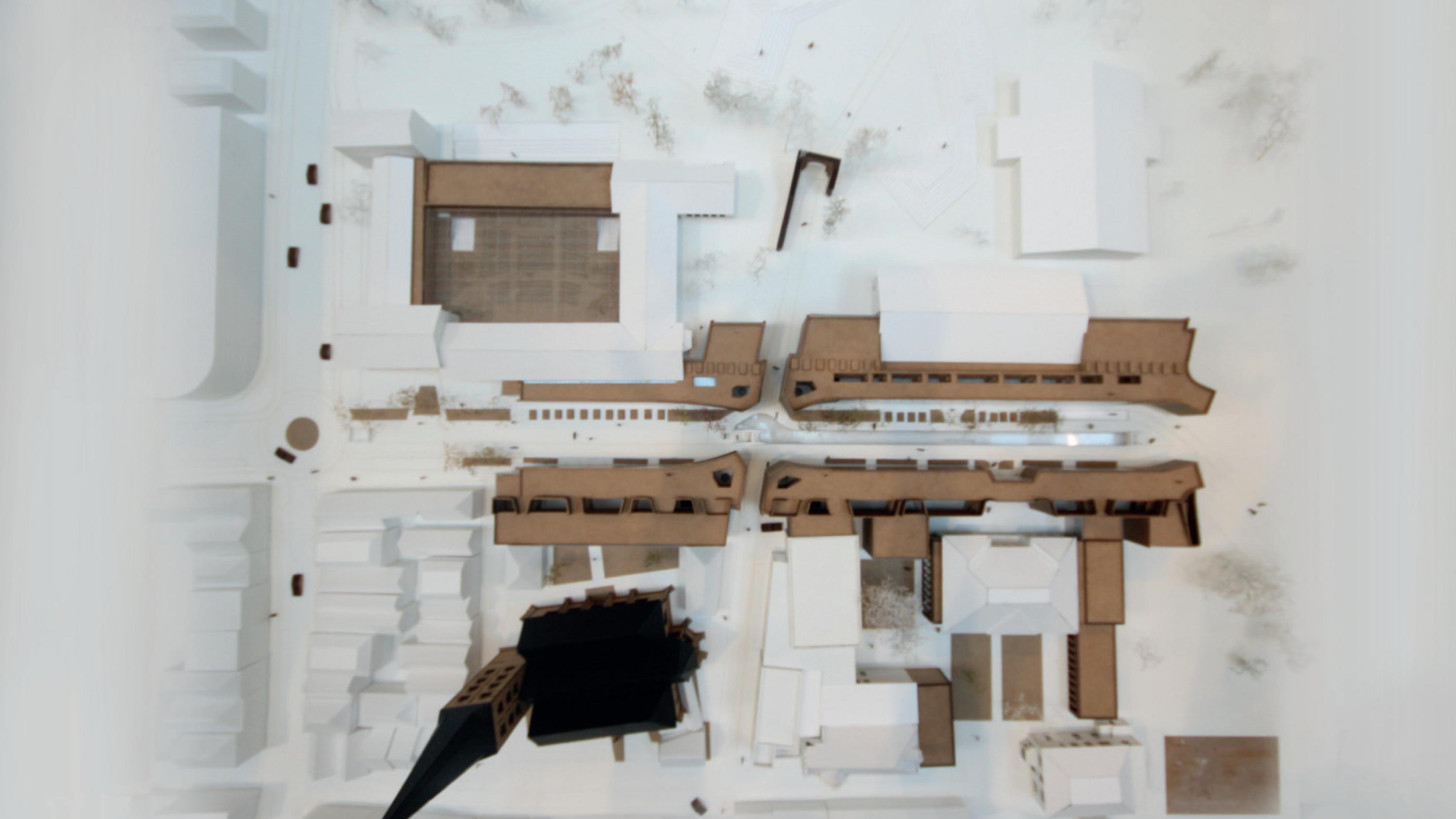




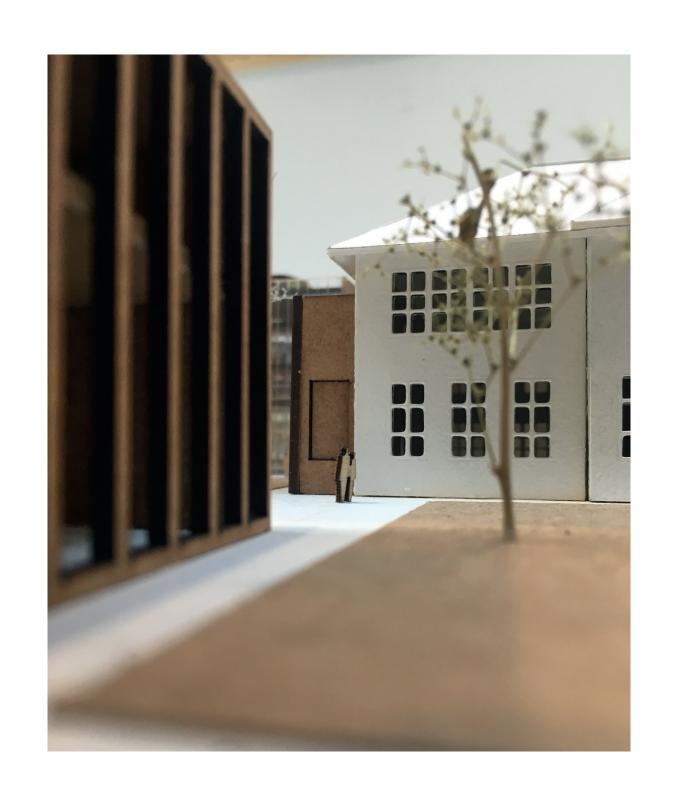


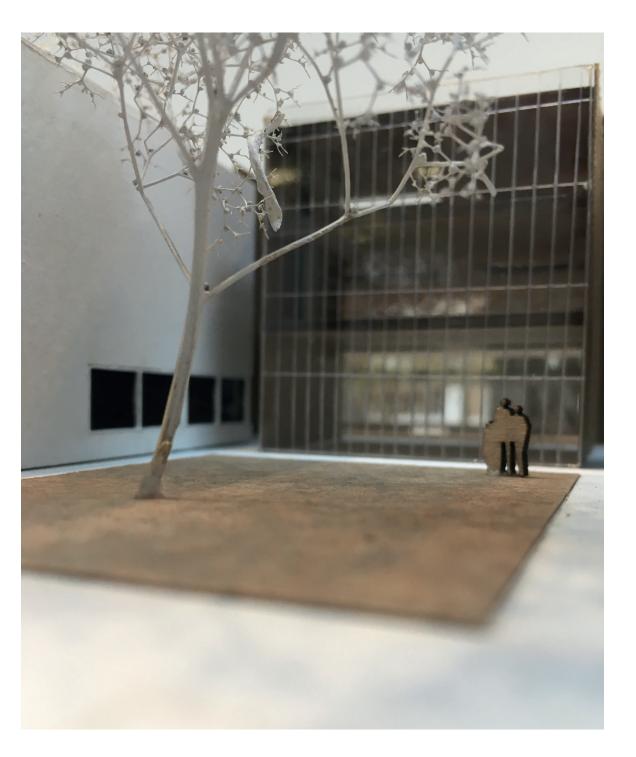
# Design

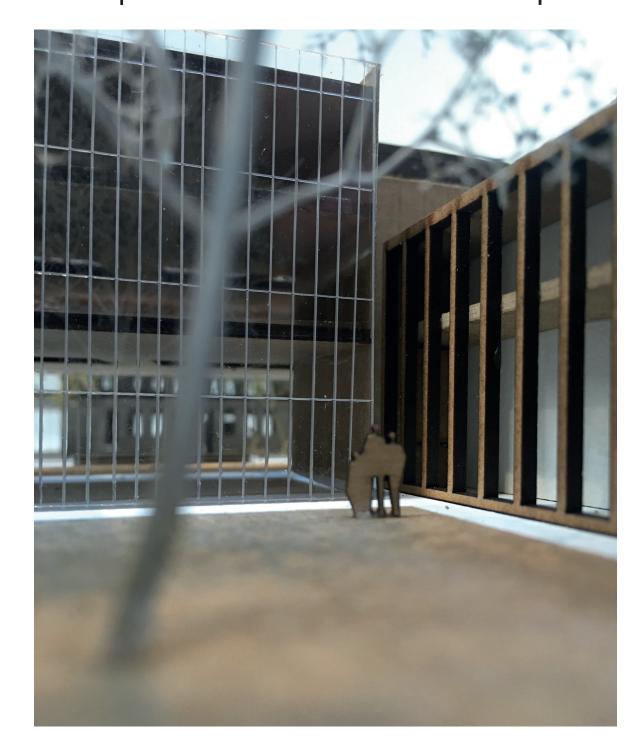


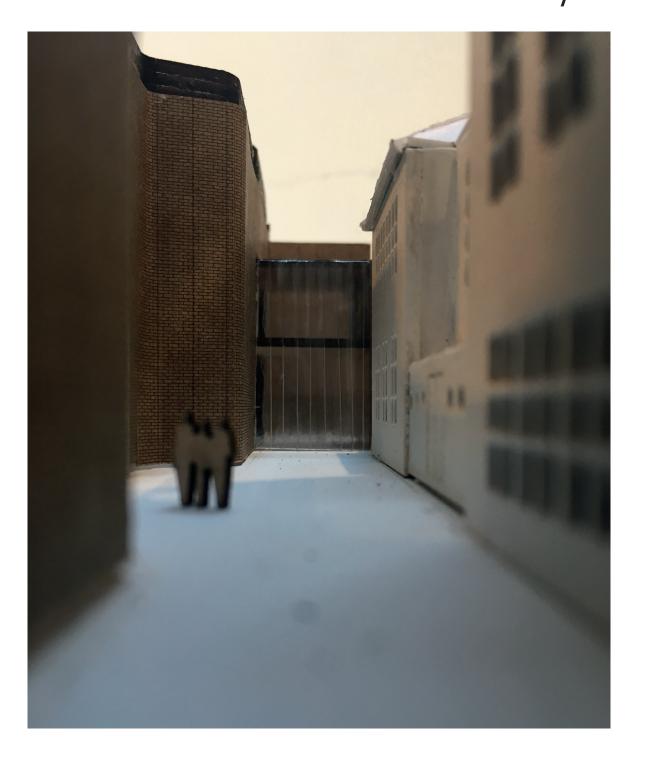


### Sequence of space / New courtyards





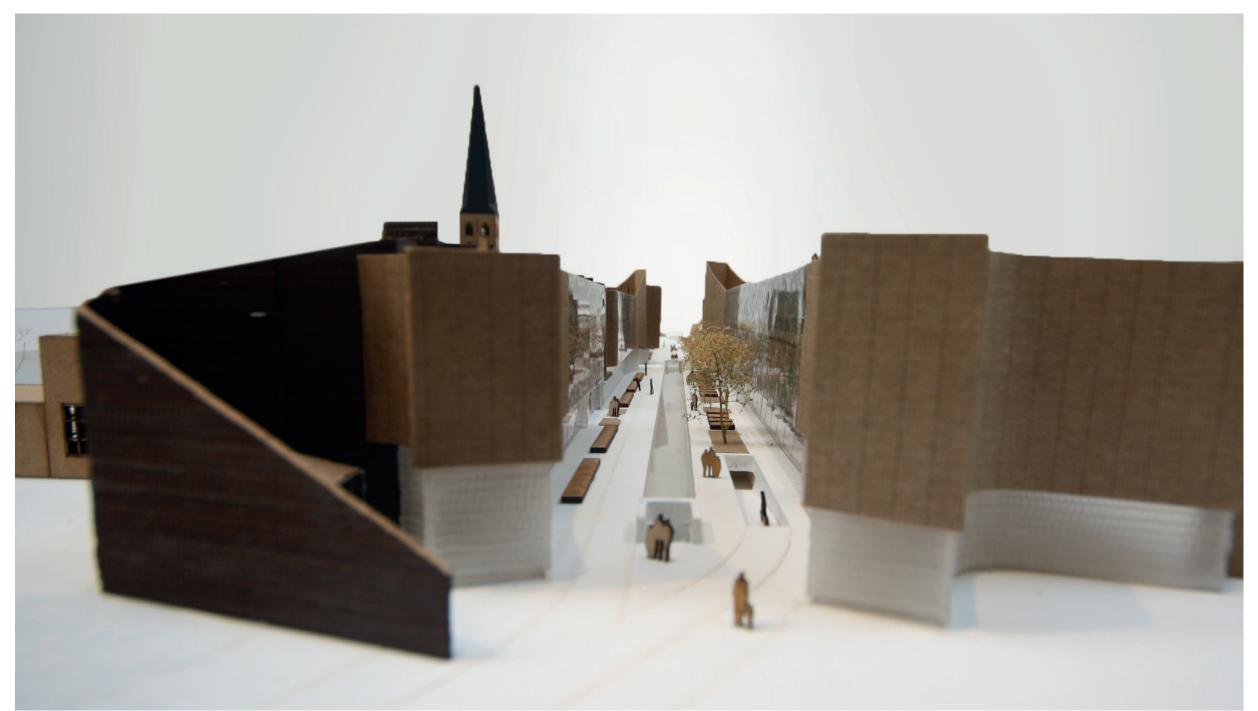


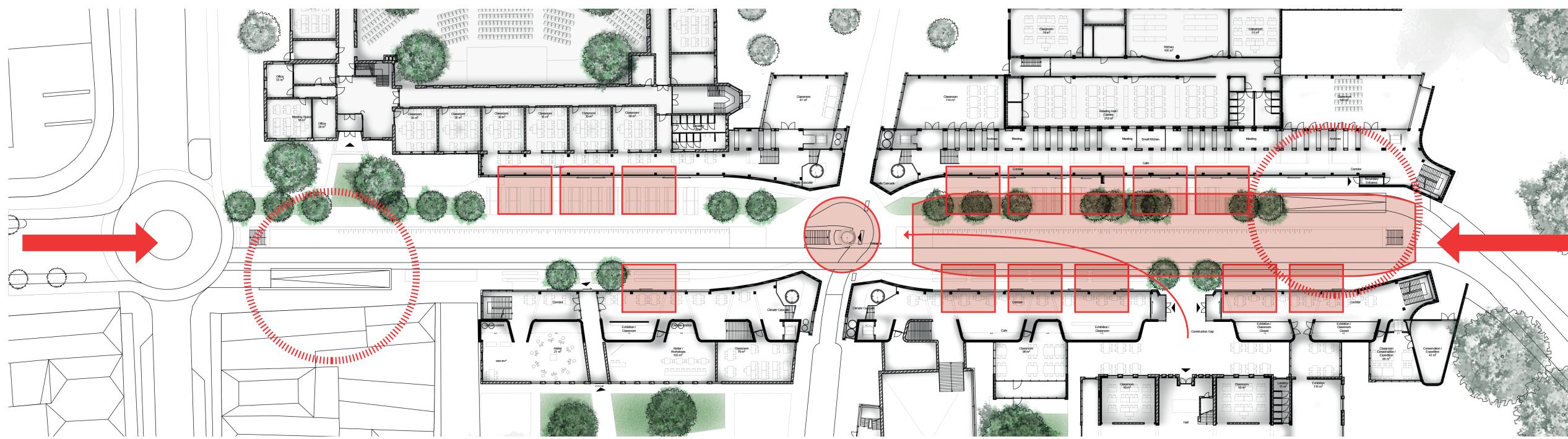




### Public space

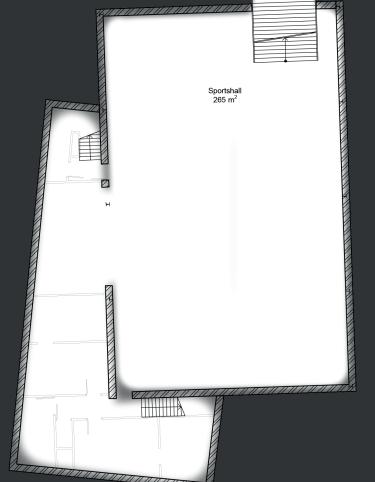






#### Souterrain

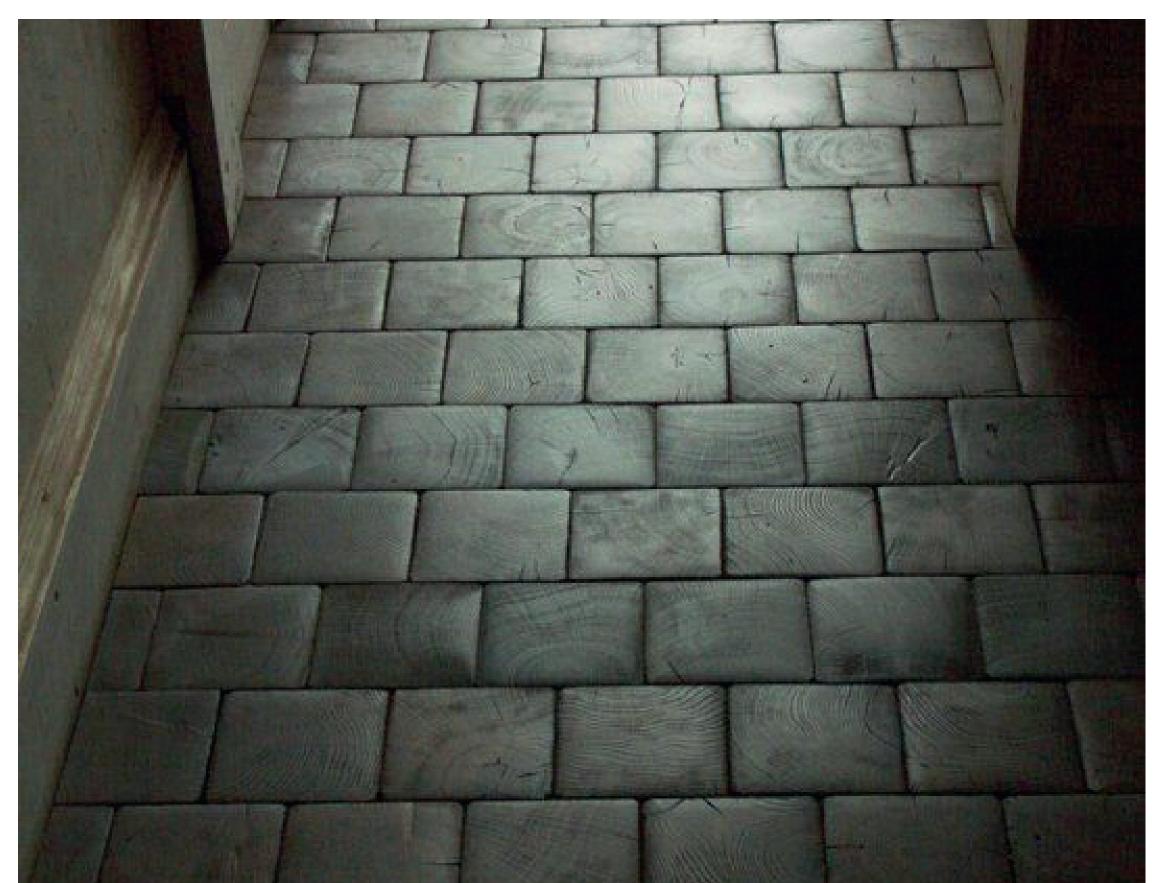


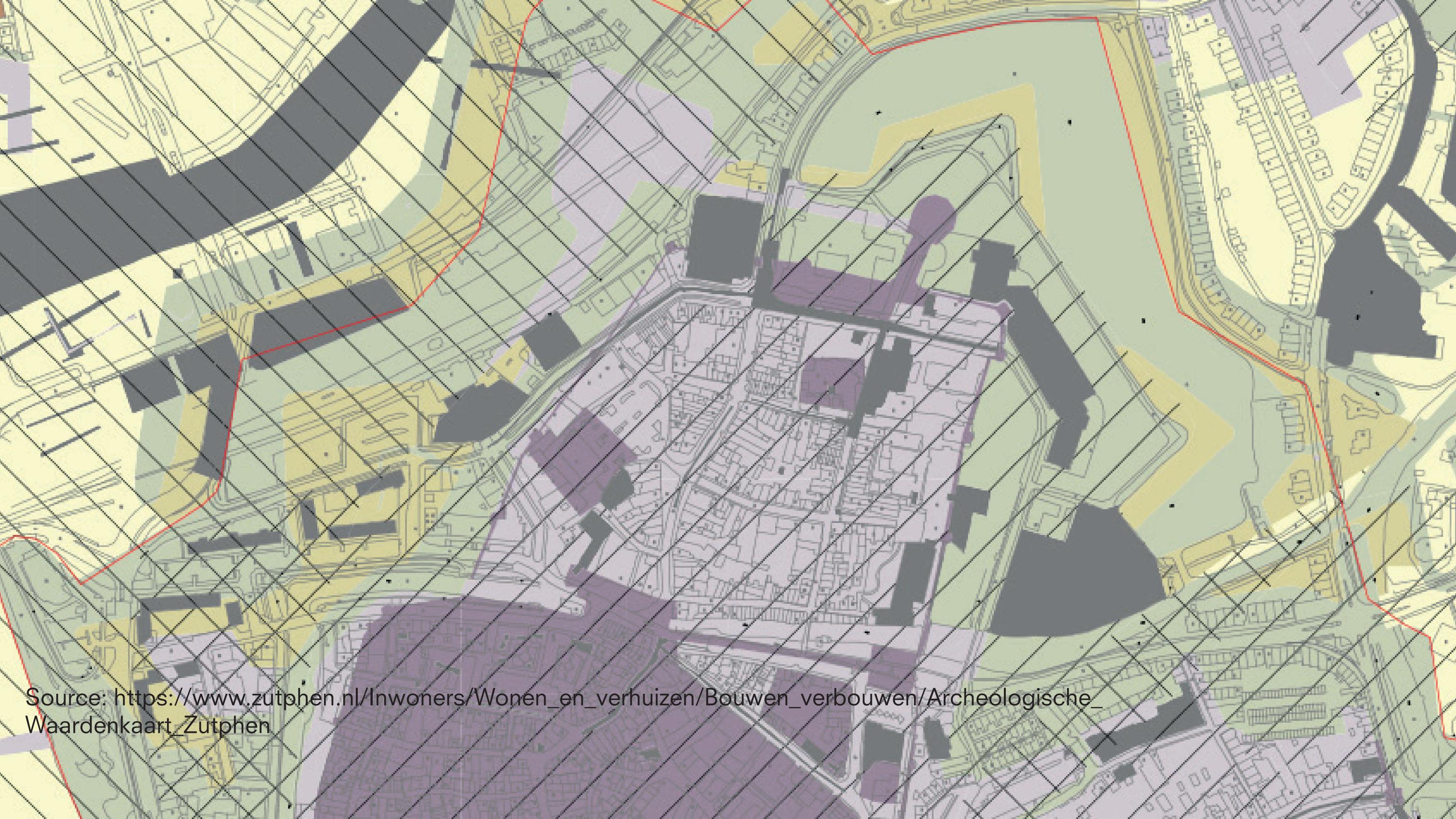


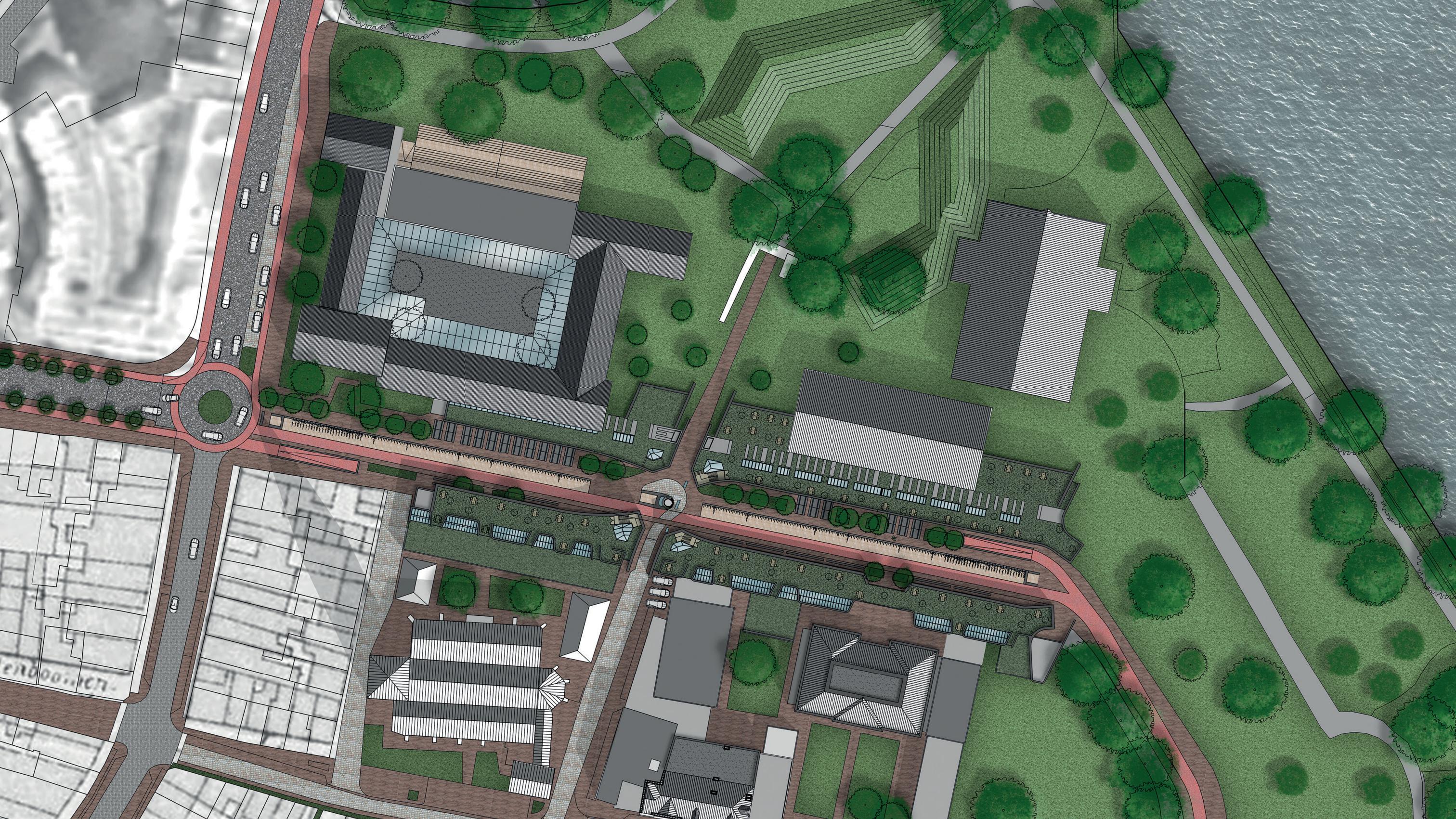


### Material

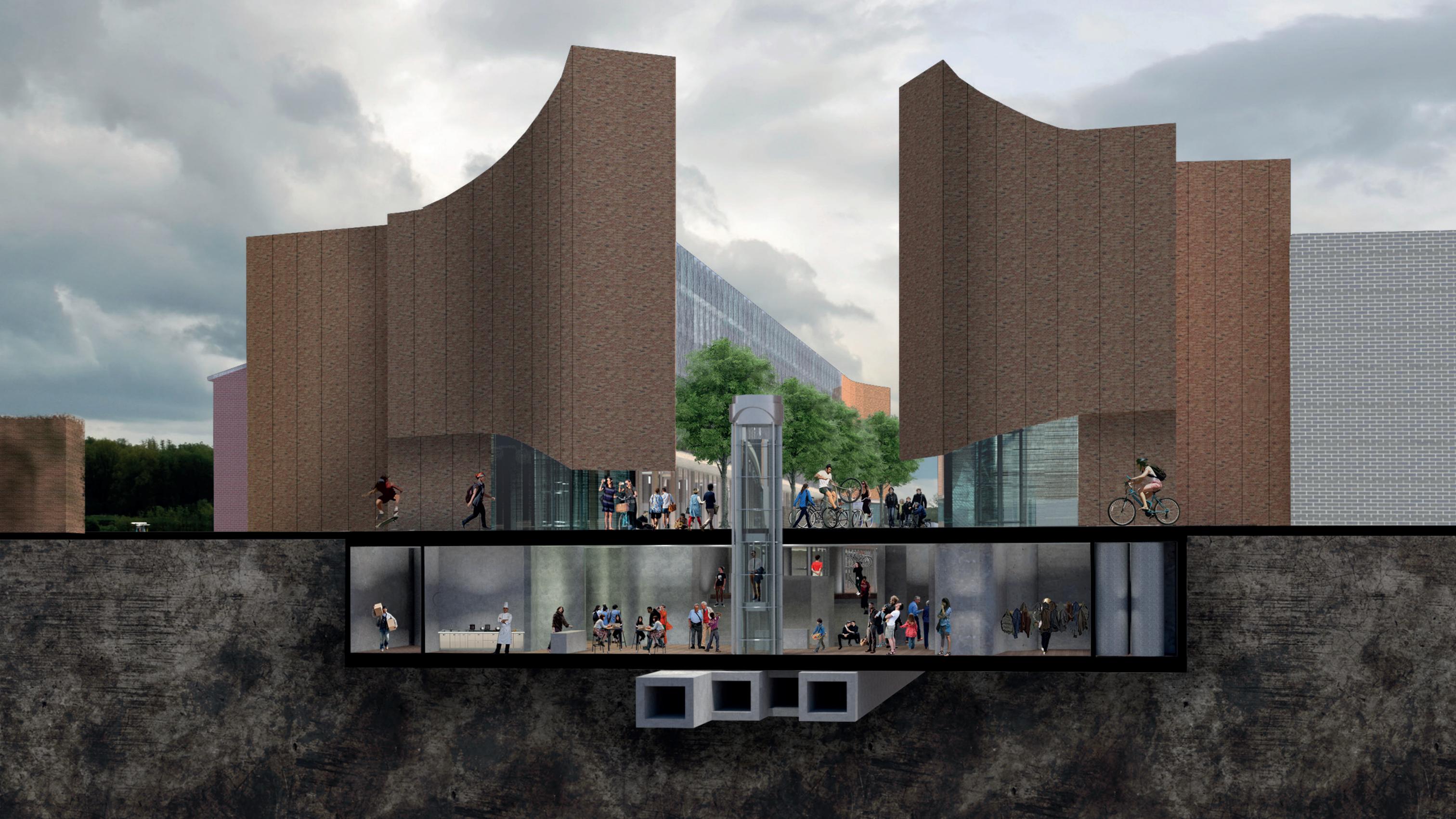


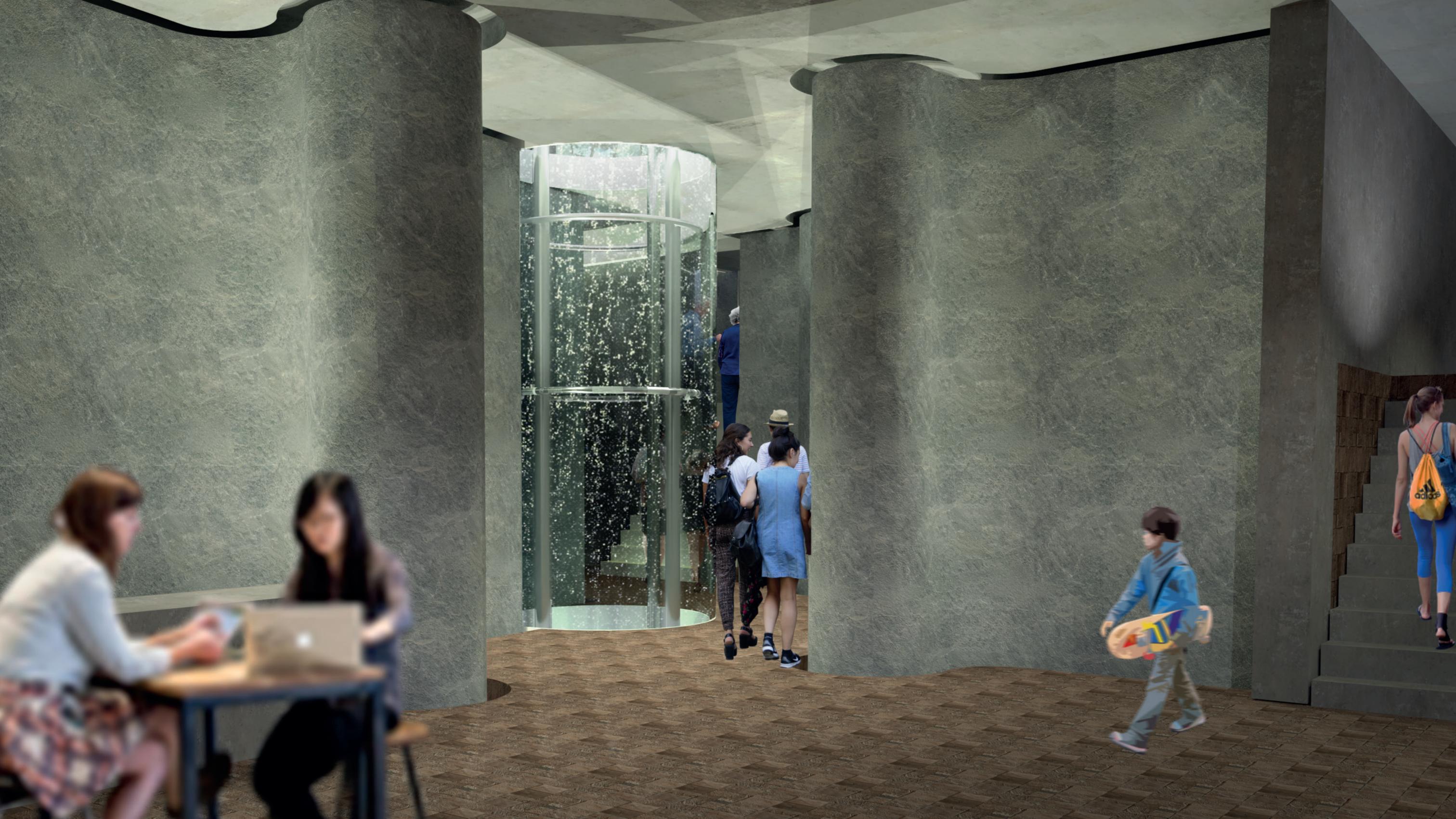












Sub ventilation shaft diameter: Sub ventilation shaft diameter 2:

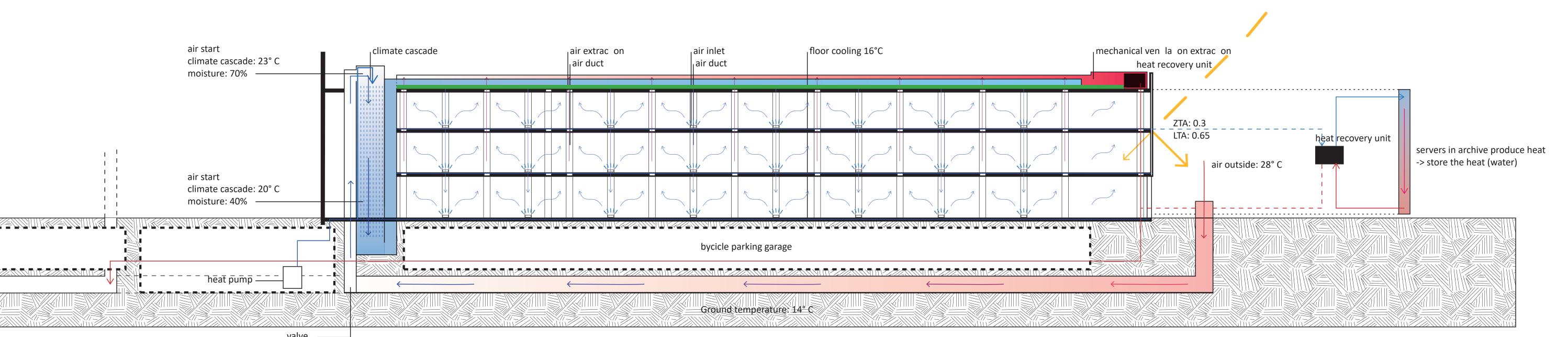
Q = V \* S (m3/h) Q = V \* S (m3/h)

V = air speed (m/sec). V = air speed (m/sec). S = area shaft (m2) S = area shaft (m2) \* 16

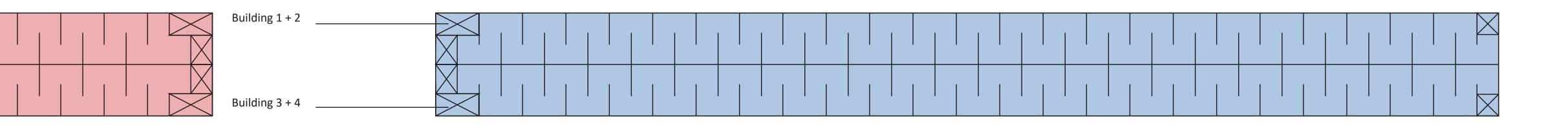
 $S = 0.84 \text{ m} \times 0.84 \text{ m} \times 3.14 = 2.26 \text{ m}^2$   $S = 1.2 \text{ m} \times 1.2 \text{ m} \times 3.14 = 5.28 \text{ m}^2 / 16 = 0,08 \text{ m}^2 = 0,5 \text{ m}^* = 0,16 \text{ m}$ 

 $Q = 57000 \text{ m}^3/\text{h} = 15,83 \text{ m}^3/\text{s}$   $Q = 57000 \text{ m}^3/\text{h} = 15,83 \text{ m}^3/\text{s}$ 

V = 7 m/s (sub shaft) V = 3 m/s (sub shaft)



Climate Summertime



Climate Wintertime

Sub ventilation shaft diameter: Sub ventilation shaft diameter 2:

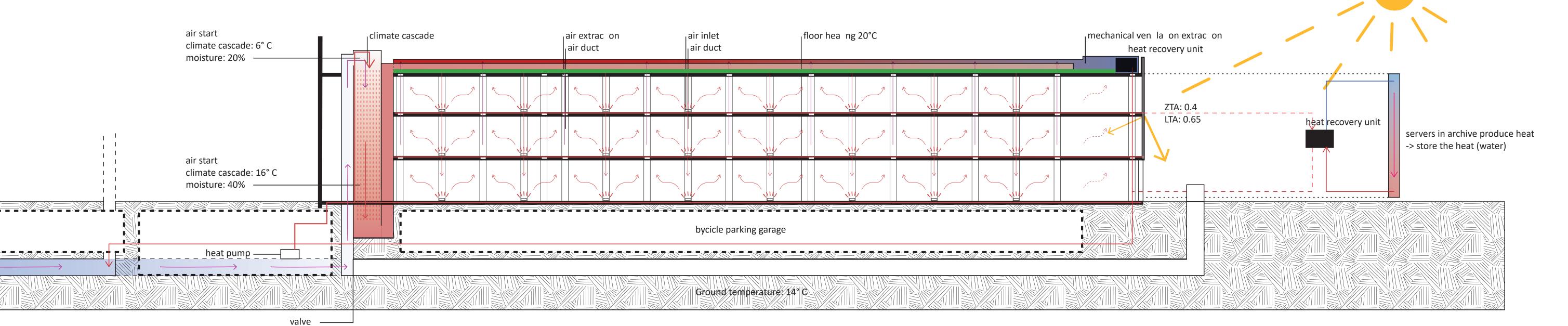
Q = V \* S (m3/h) Q = V \* S (m3/h)

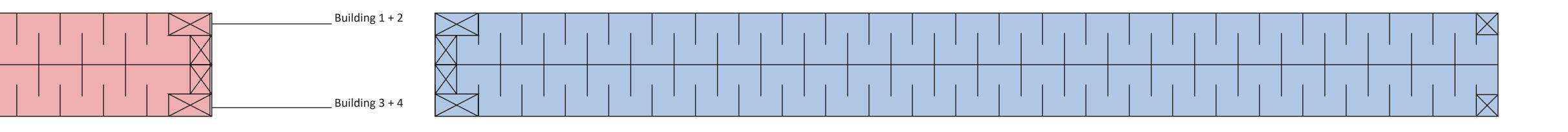
V = air speed (m/sec). V = air speed (m/sec). S = area shaft (m2) S = area shaft (m2) \* 16

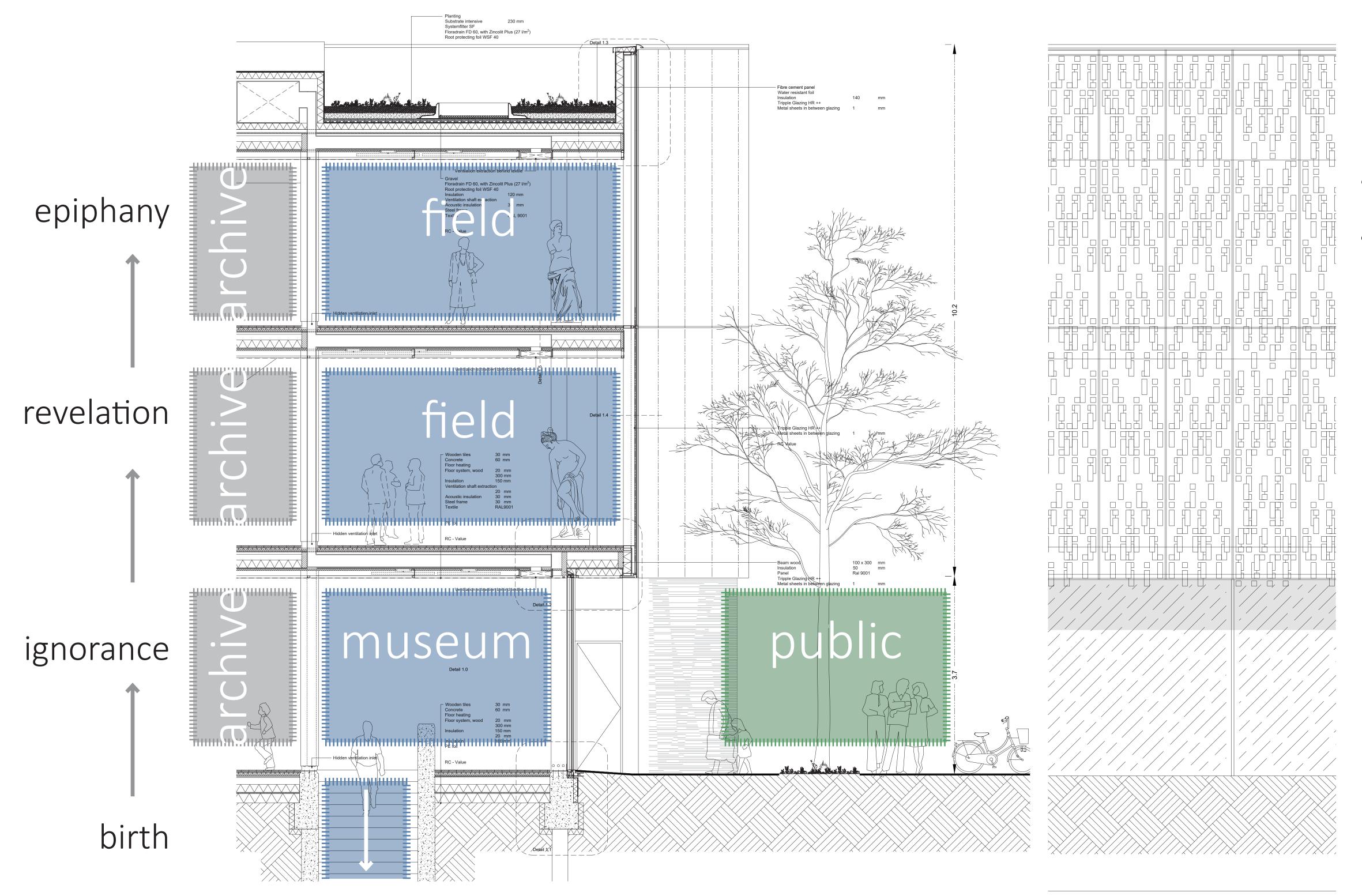
 $S = 0.84 \text{ m} \times 0.84 \text{ m} \times 3.14 = 2.26 \text{ m}^2$   $S = 1.2 \text{ m} \times 1.2 \text{ m} \times 3.14 = 5.28 \text{ m}^2 / 16 = 0,08 \text{ m}^2 = 0,5 \text{ m}^* = 0,16 \text{ m}$ 

 $Q = 57000 \text{ m}^3\text{/h} = 15,83 \text{ m}^3\text{/s}$   $Q = 57000 \text{ m}^3\text{/h} = 15,83 \text{ m}^3\text{/s}$ 

V = 7 m/s (sub shaft) V = 3 m/s (sub shaft)







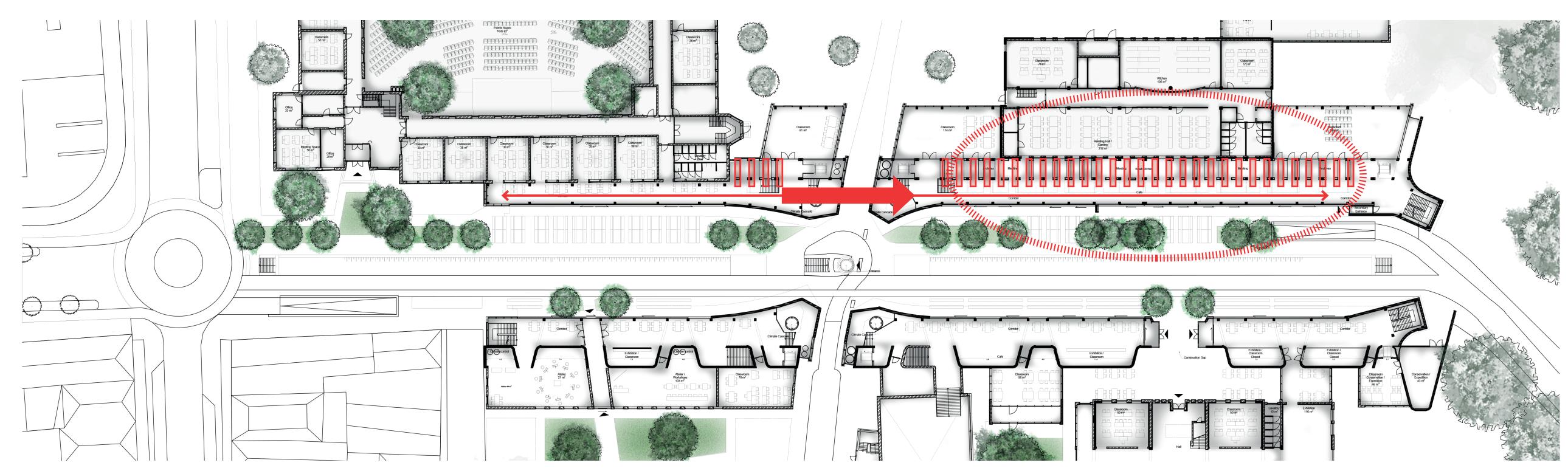
conceale

ransparent

#### Corridor







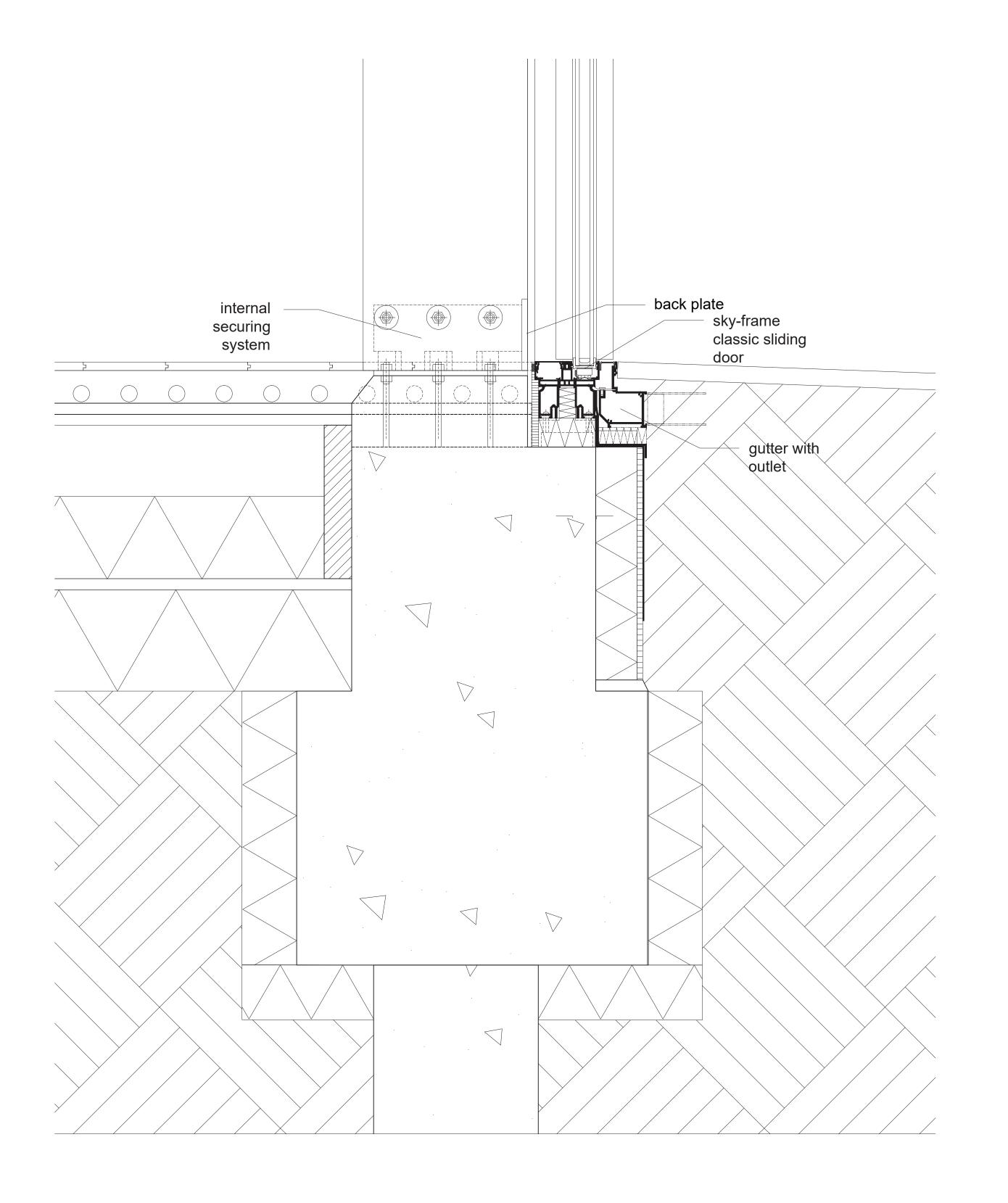


# Sky Frame Door





#### Detail





### Structure

#### Columns:

I/20 = width

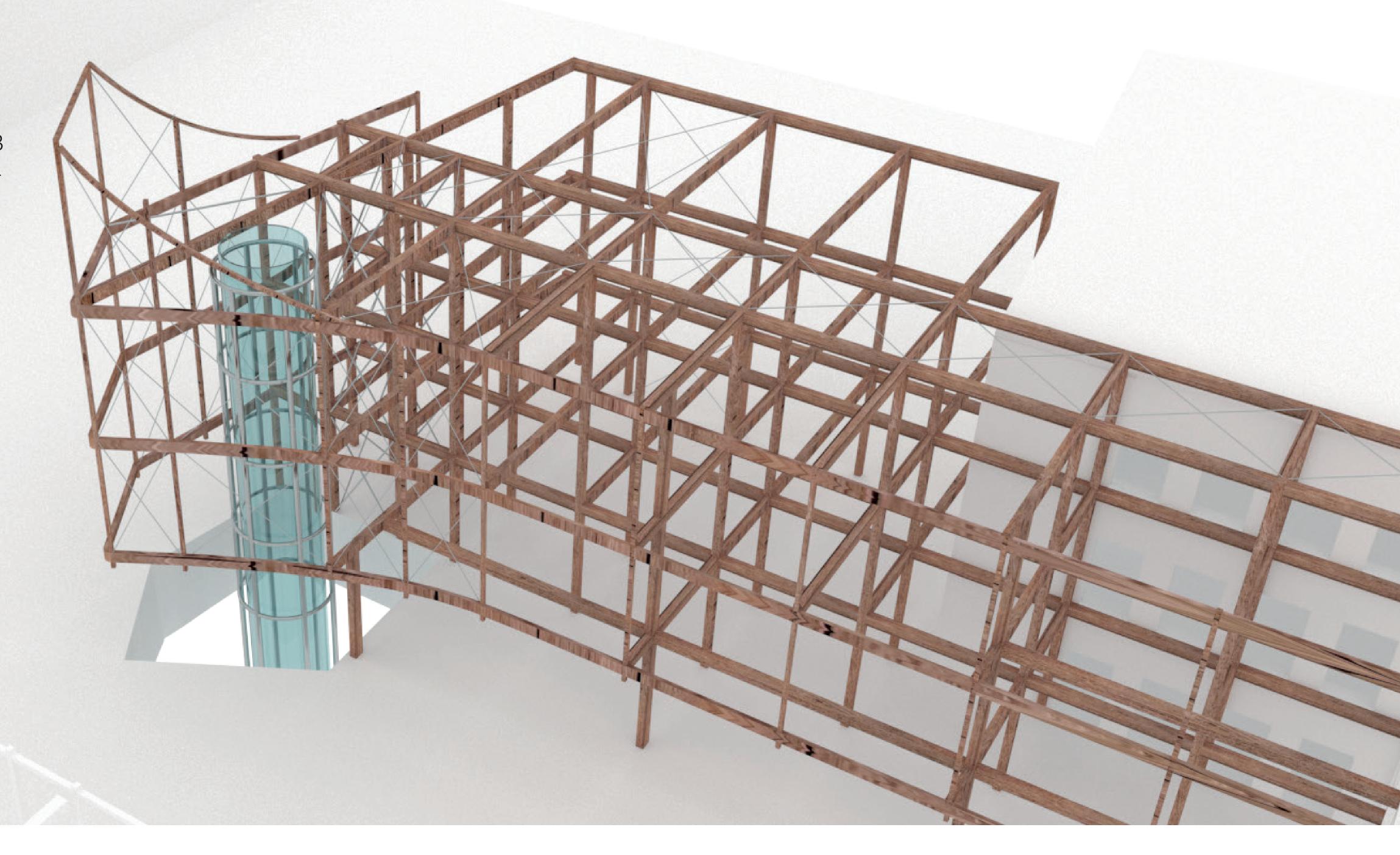
4.0/20 = 0.2 m -> chosen: 0.3 m

#### Beams:

I/20 = height

3.8/20 = 0.19 m -> chosen: 0.3

7.6/20 = 0.38 m -> chosen: 0.4



## Stability Rotation

Columns:

I/20 = width

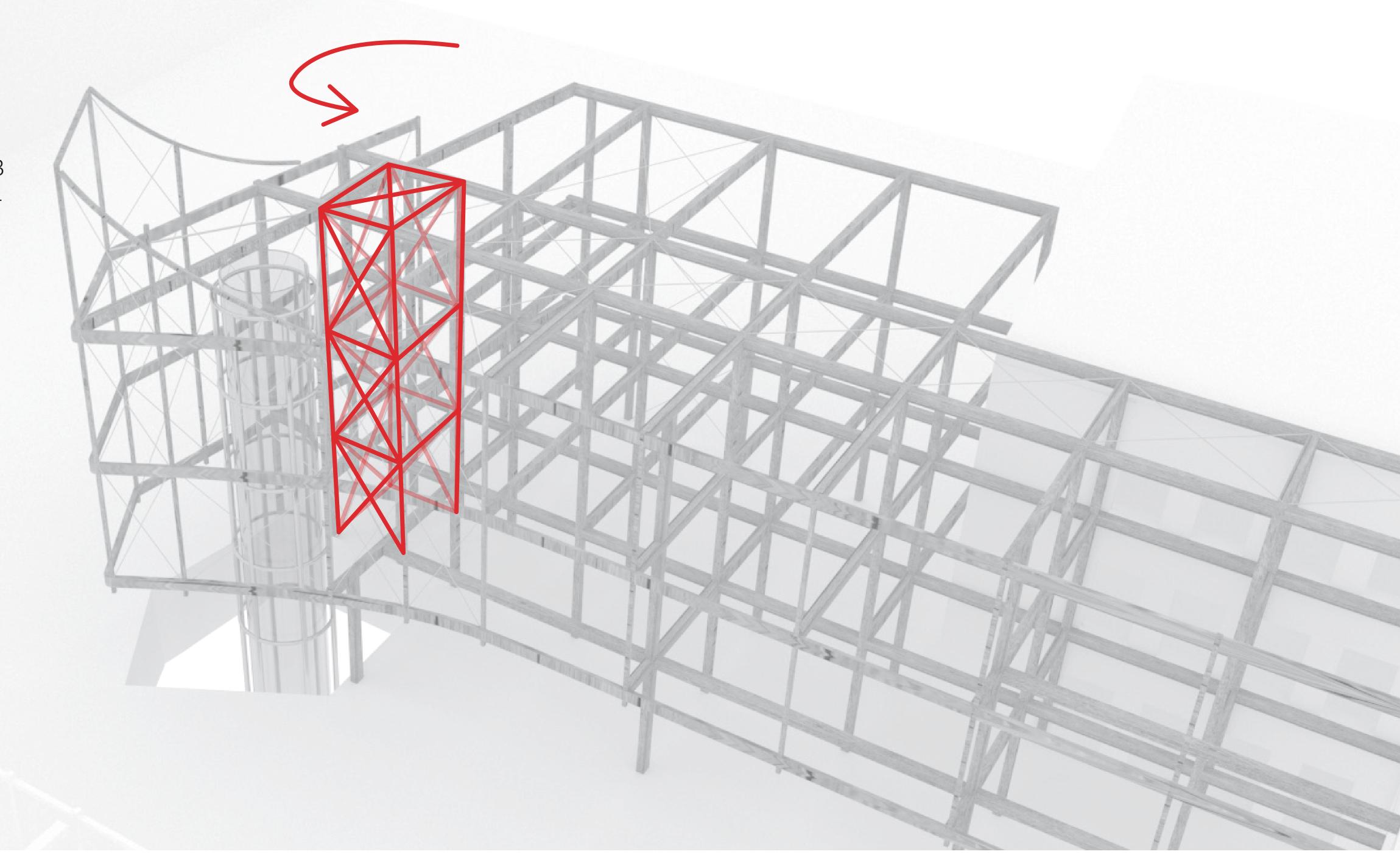
4.0/20 = 0.2 m -> chosen: 0.3 m

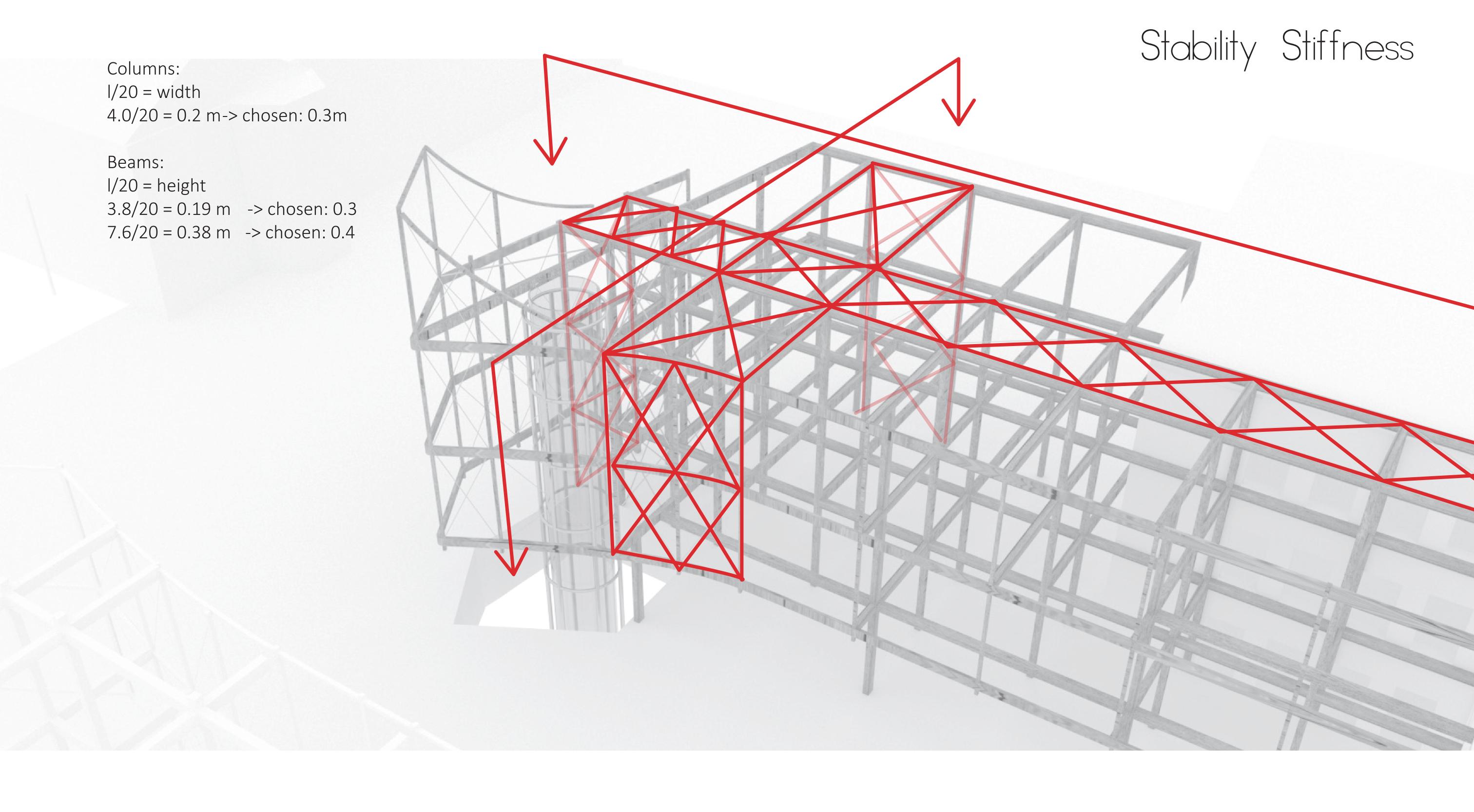
Beams:

I/20 = height

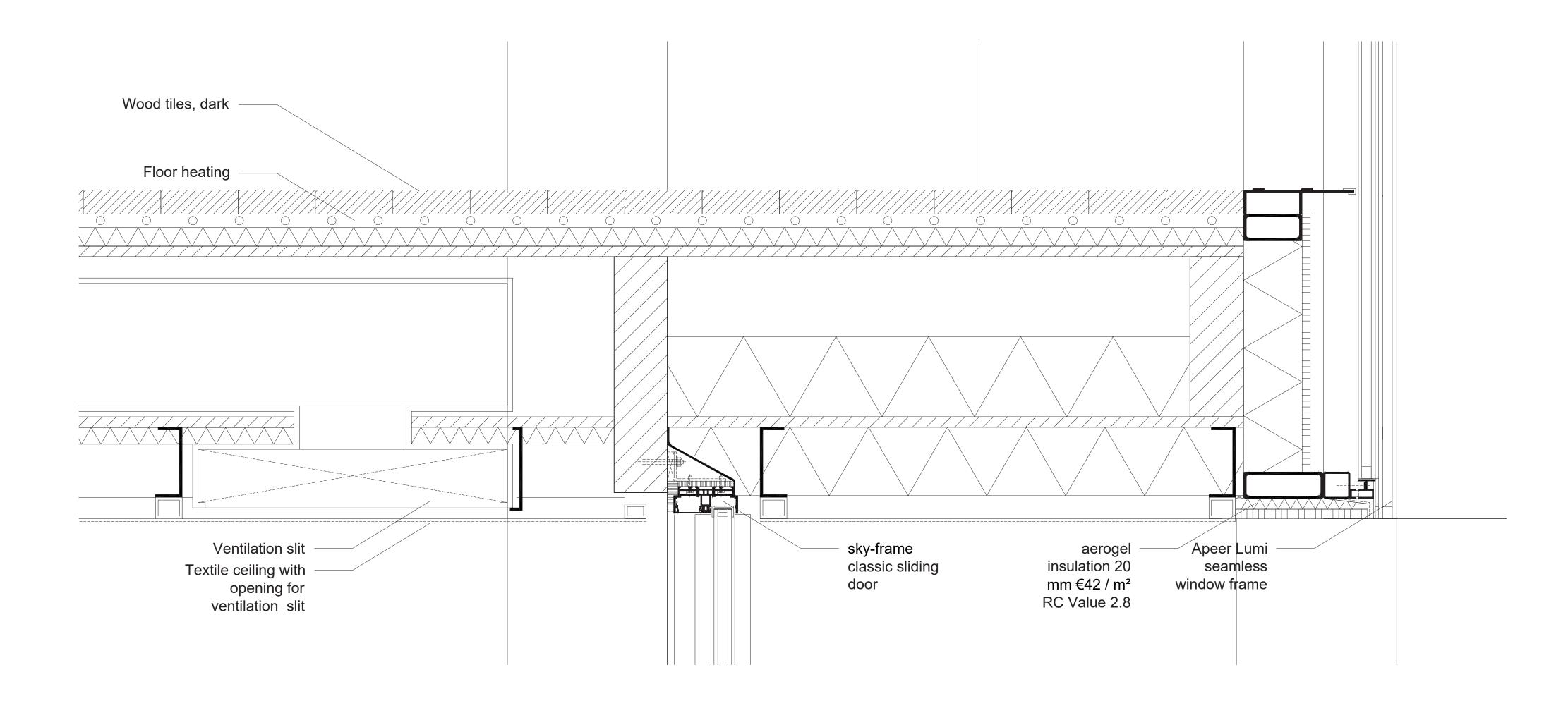
3.8/20 = 0.19 m -> chosen: 0.3

7.6/20 = 0.38 m -> chosen: 0.4







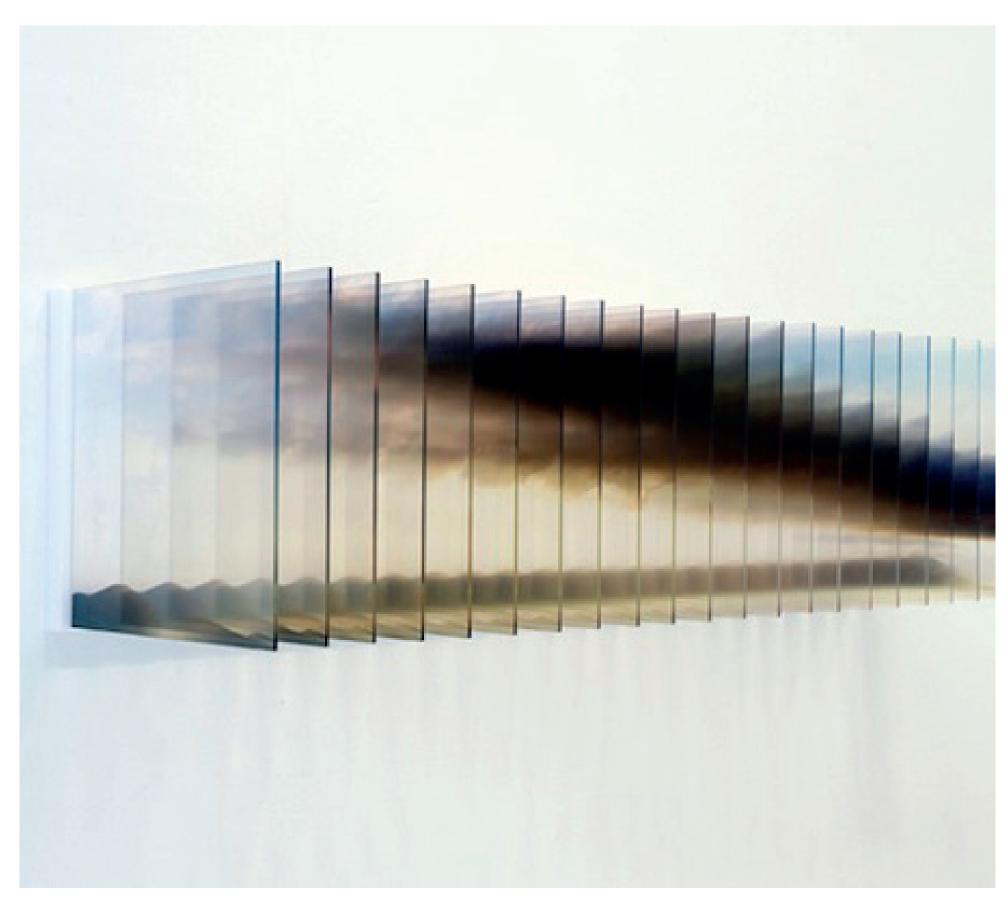


### Facade Material



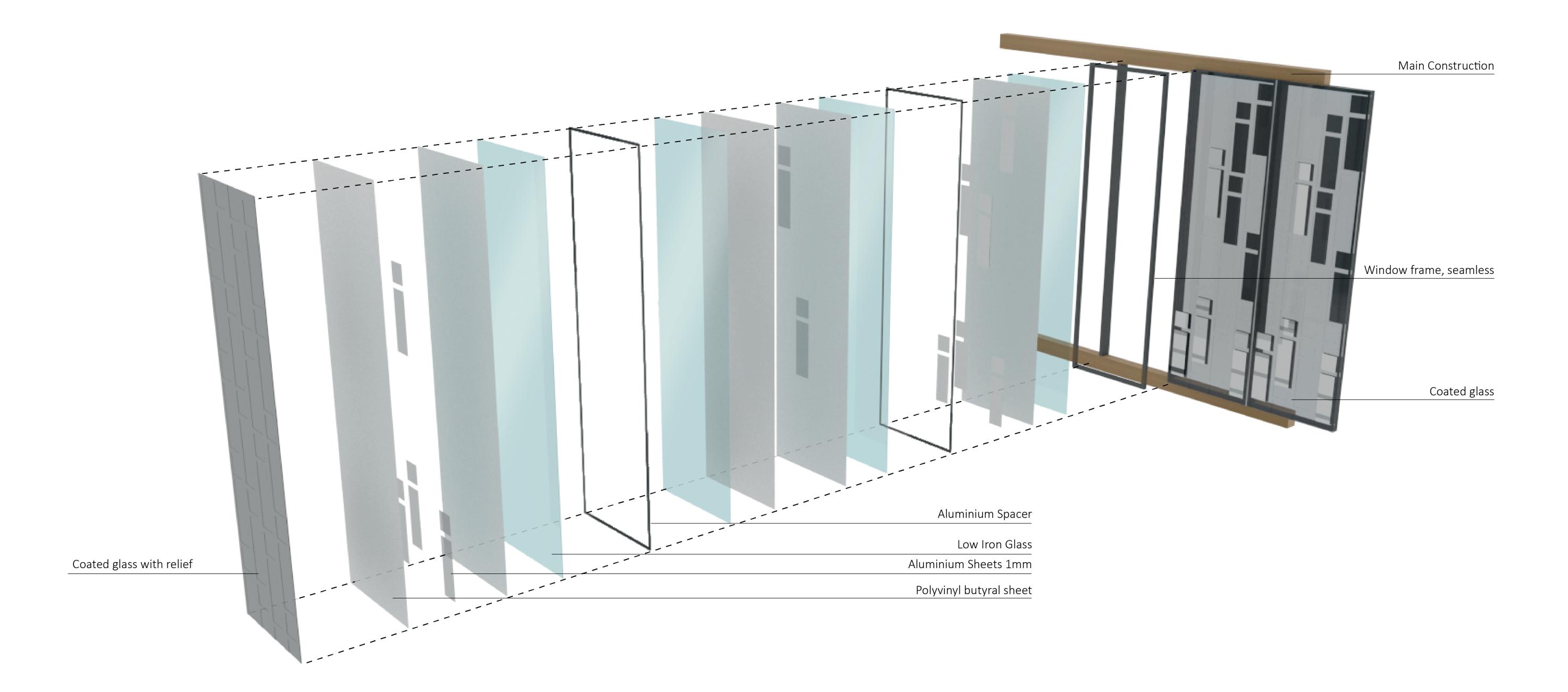


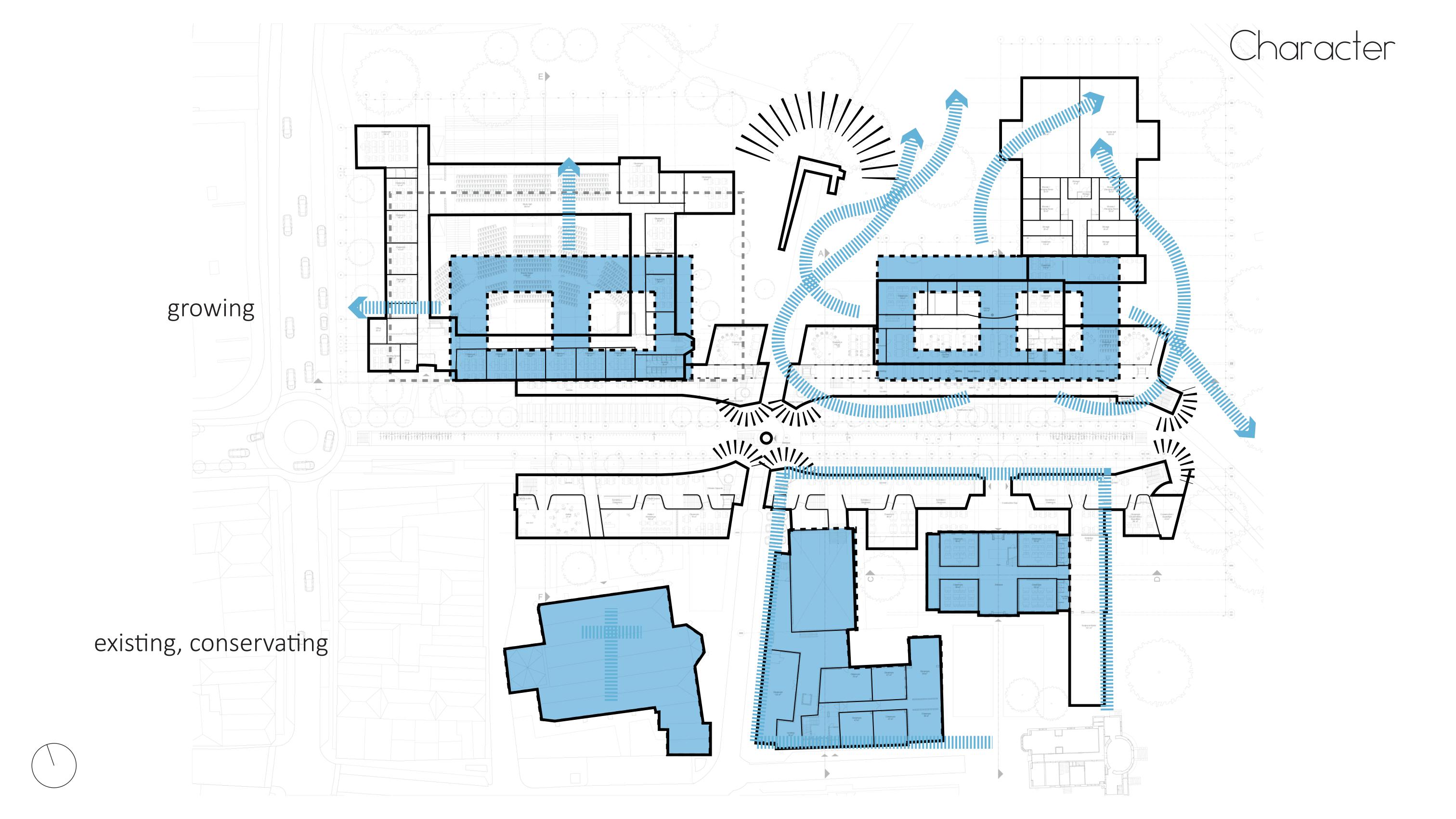




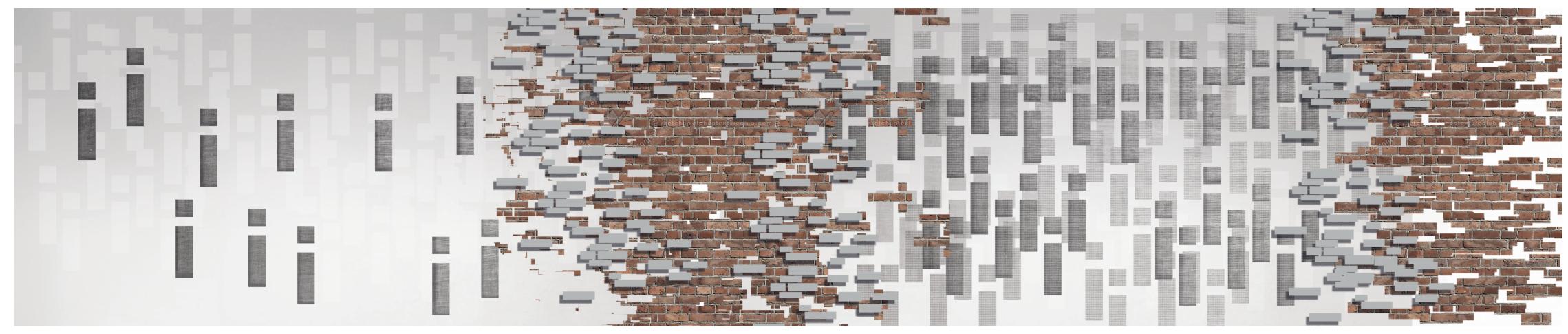
Dustin Yellin Nobuhiro Nakanishi.

## Curtain wall system

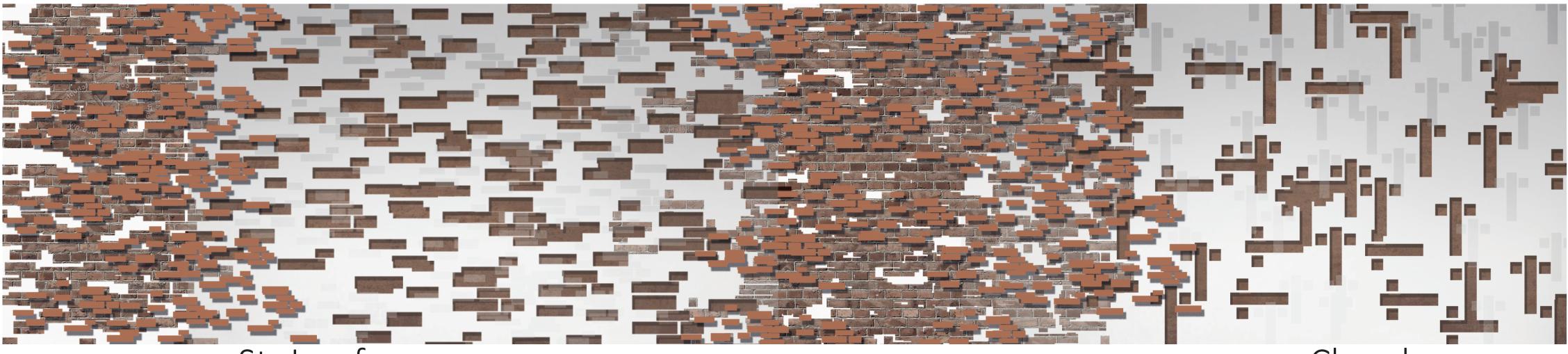




## Facade Design

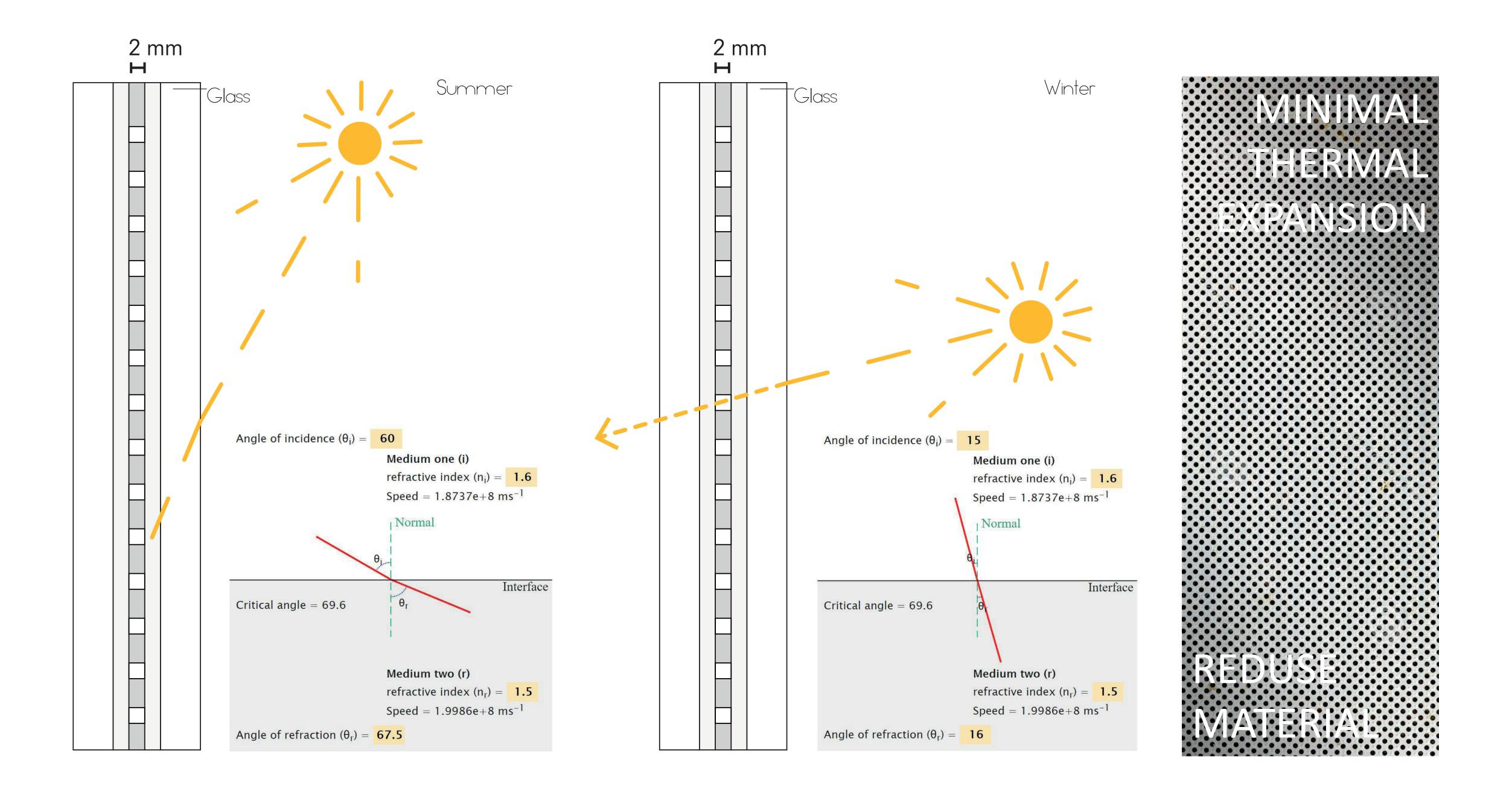


Baudartius Stedelijk

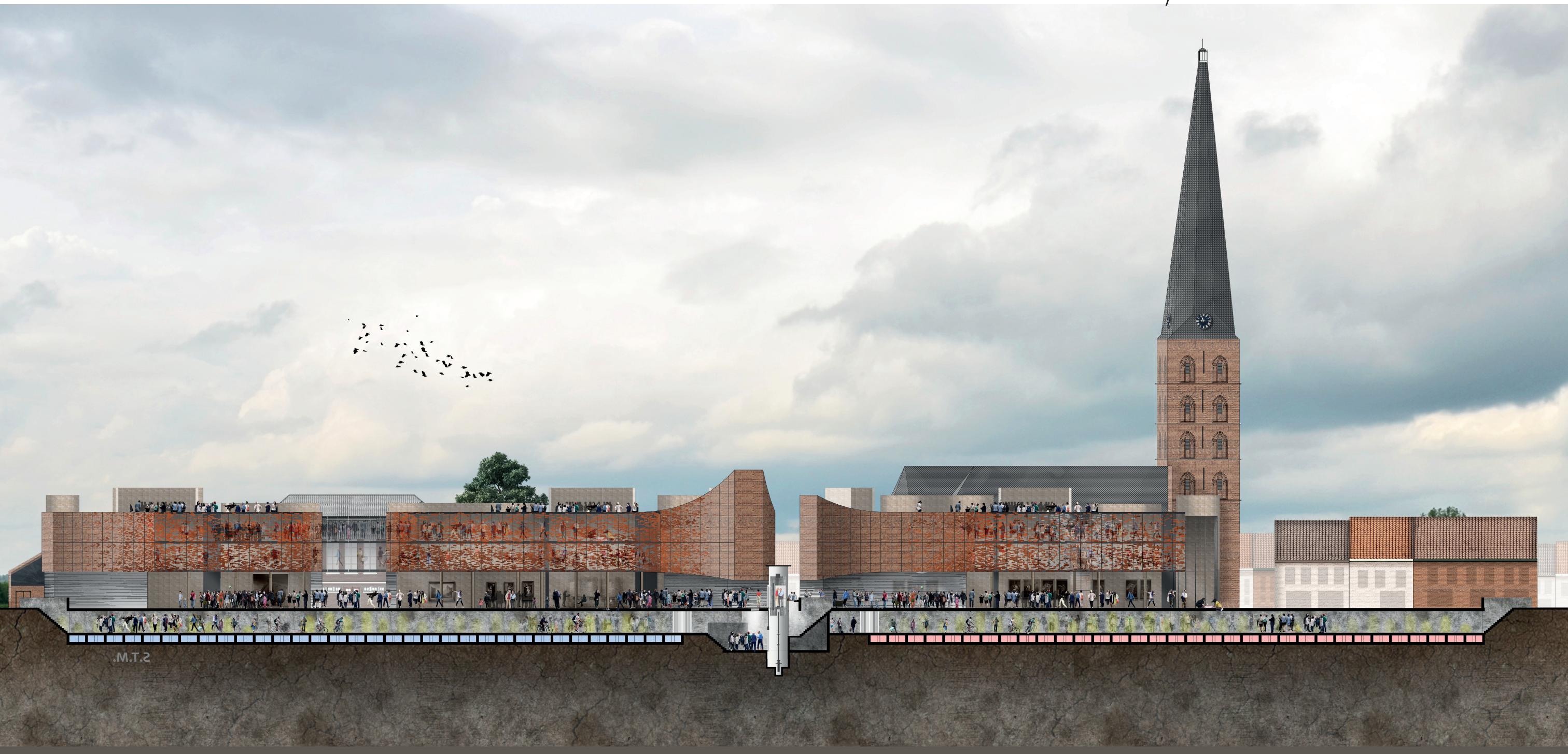


St. Jozef Church

## Aluminium elements in glass



Day time South side



# Night Time



Day time North side

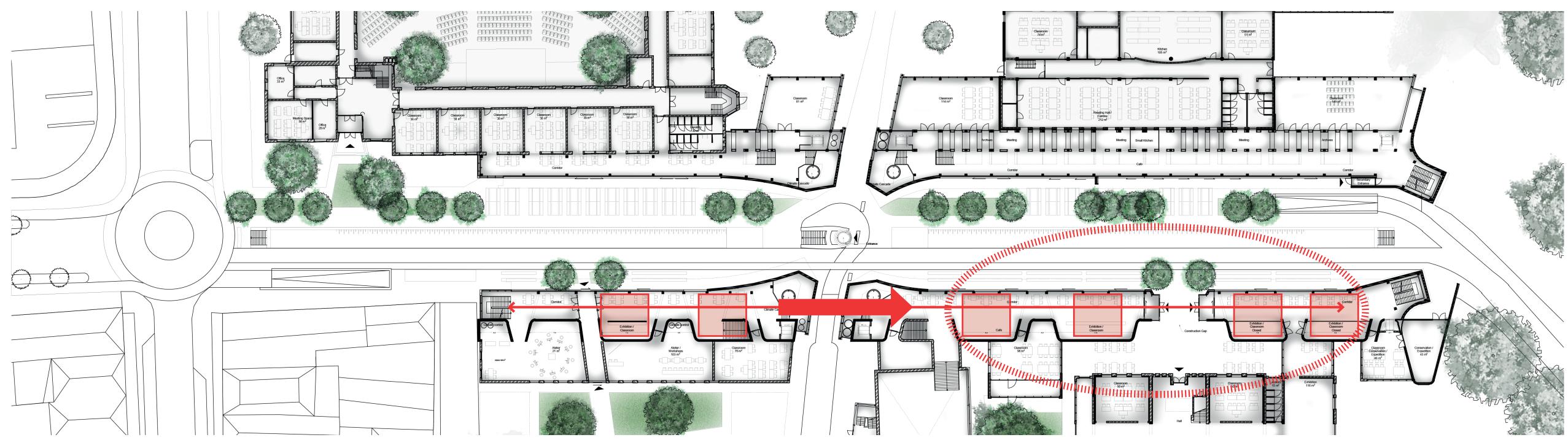




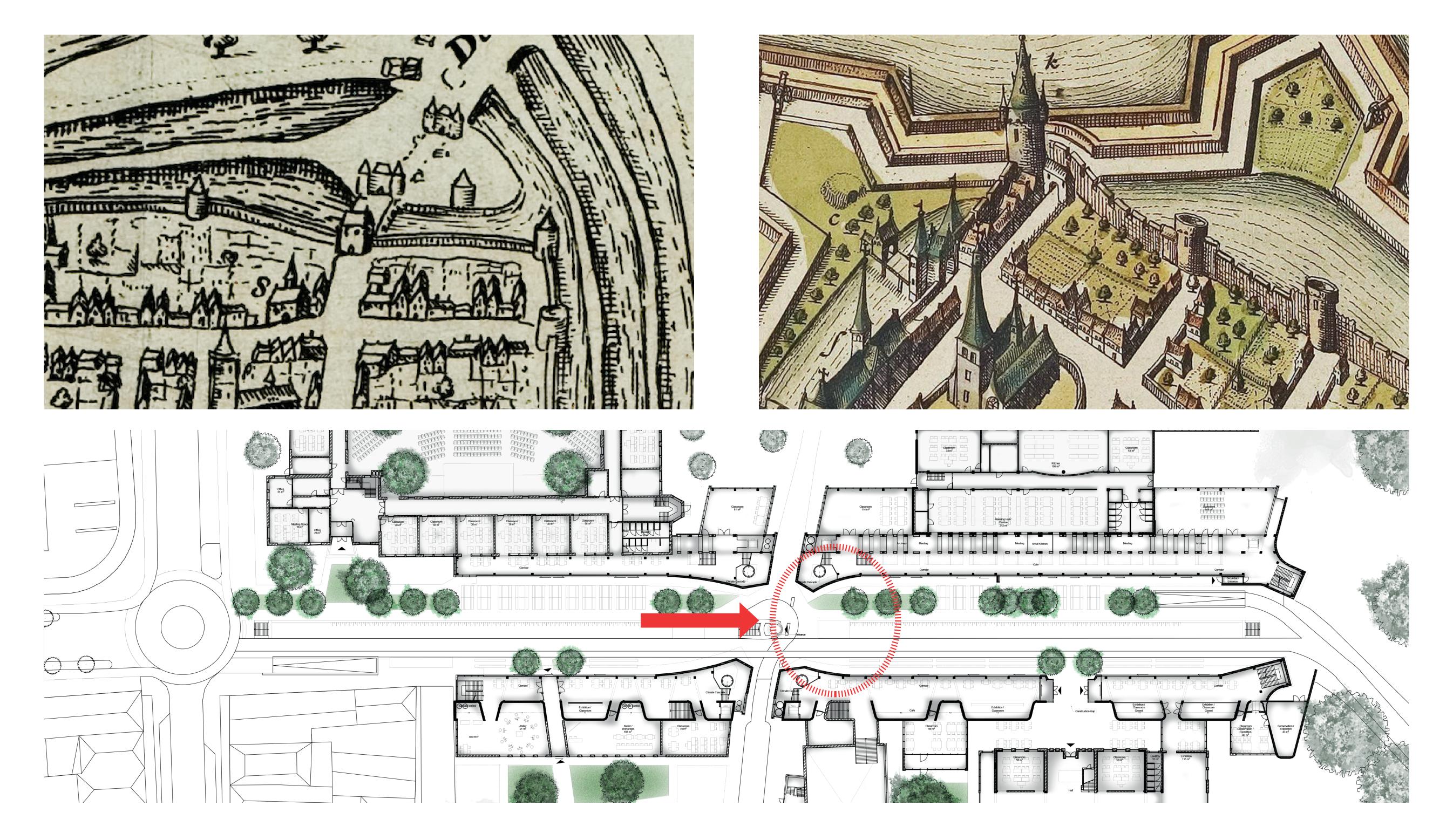
#### Corridor

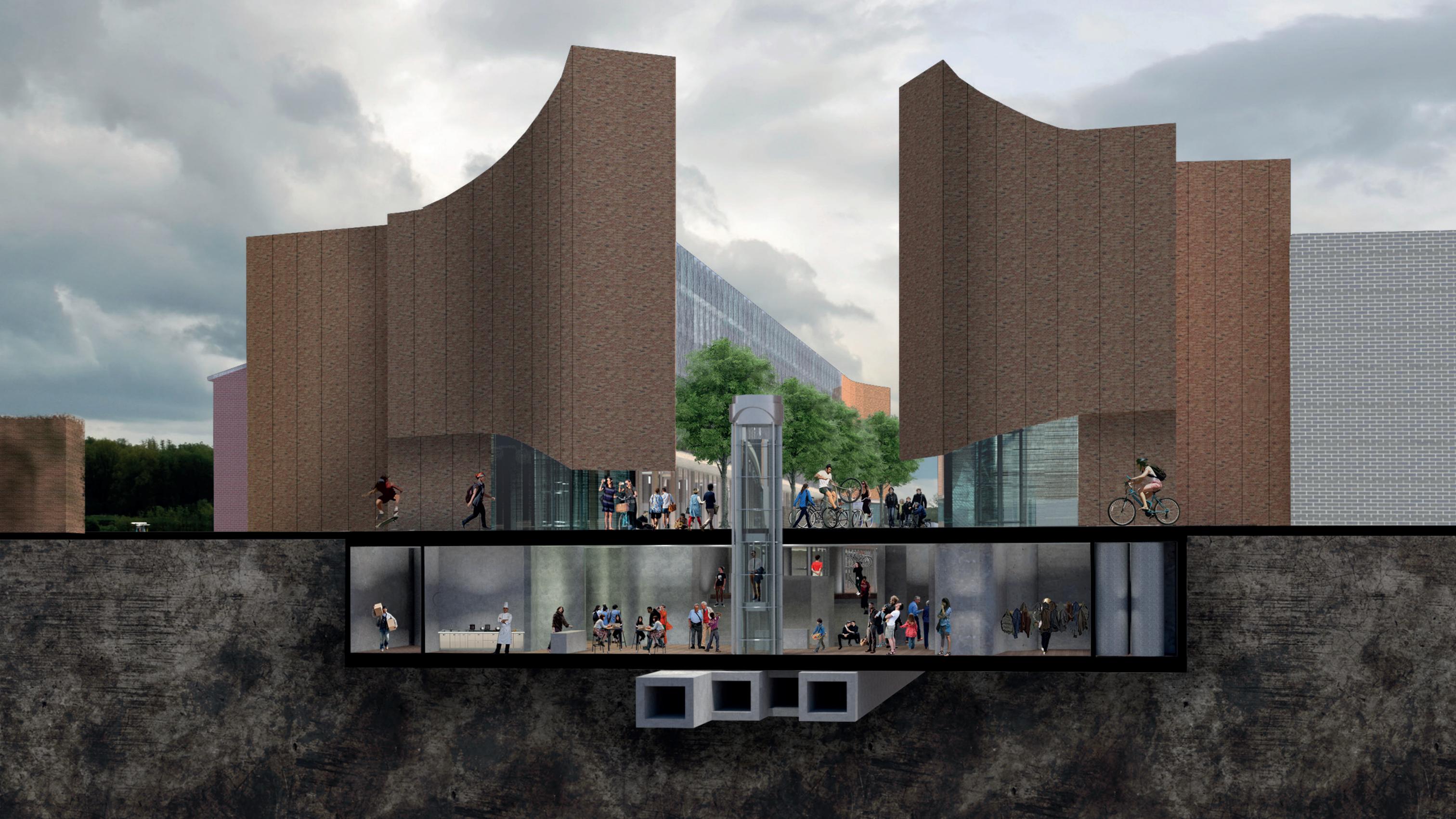




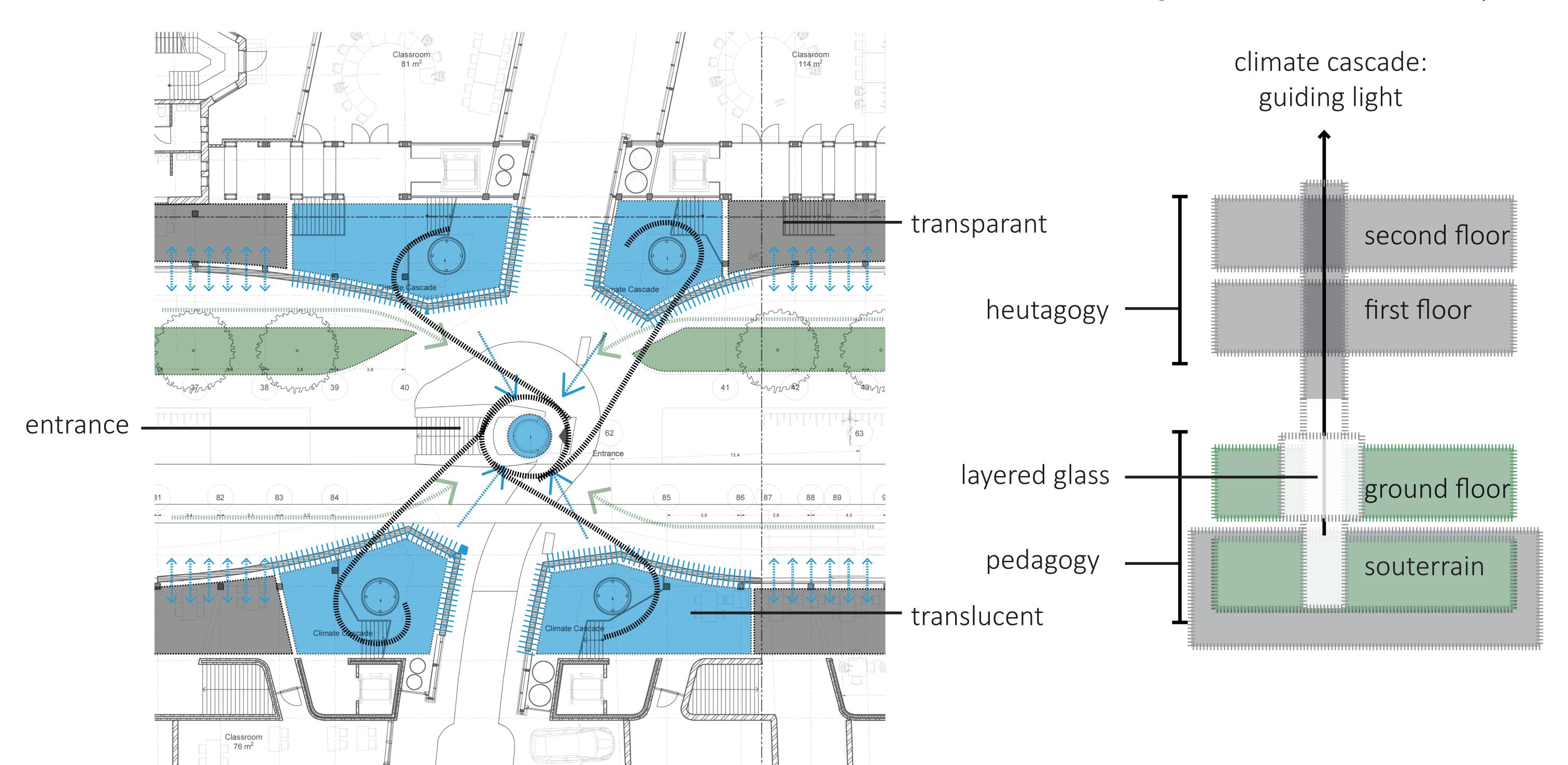


### Main Entrance

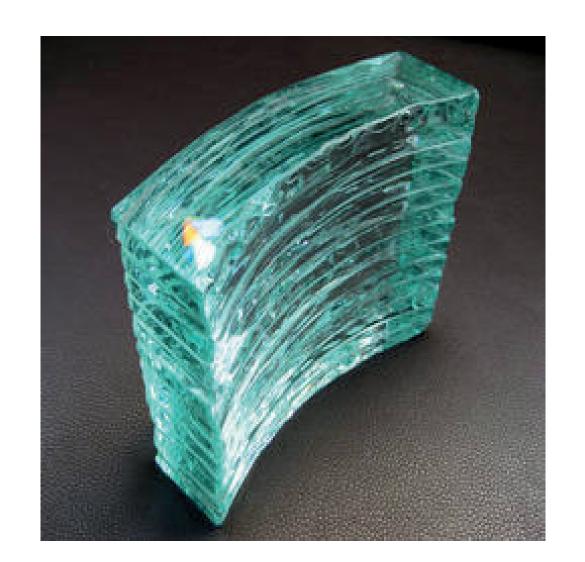




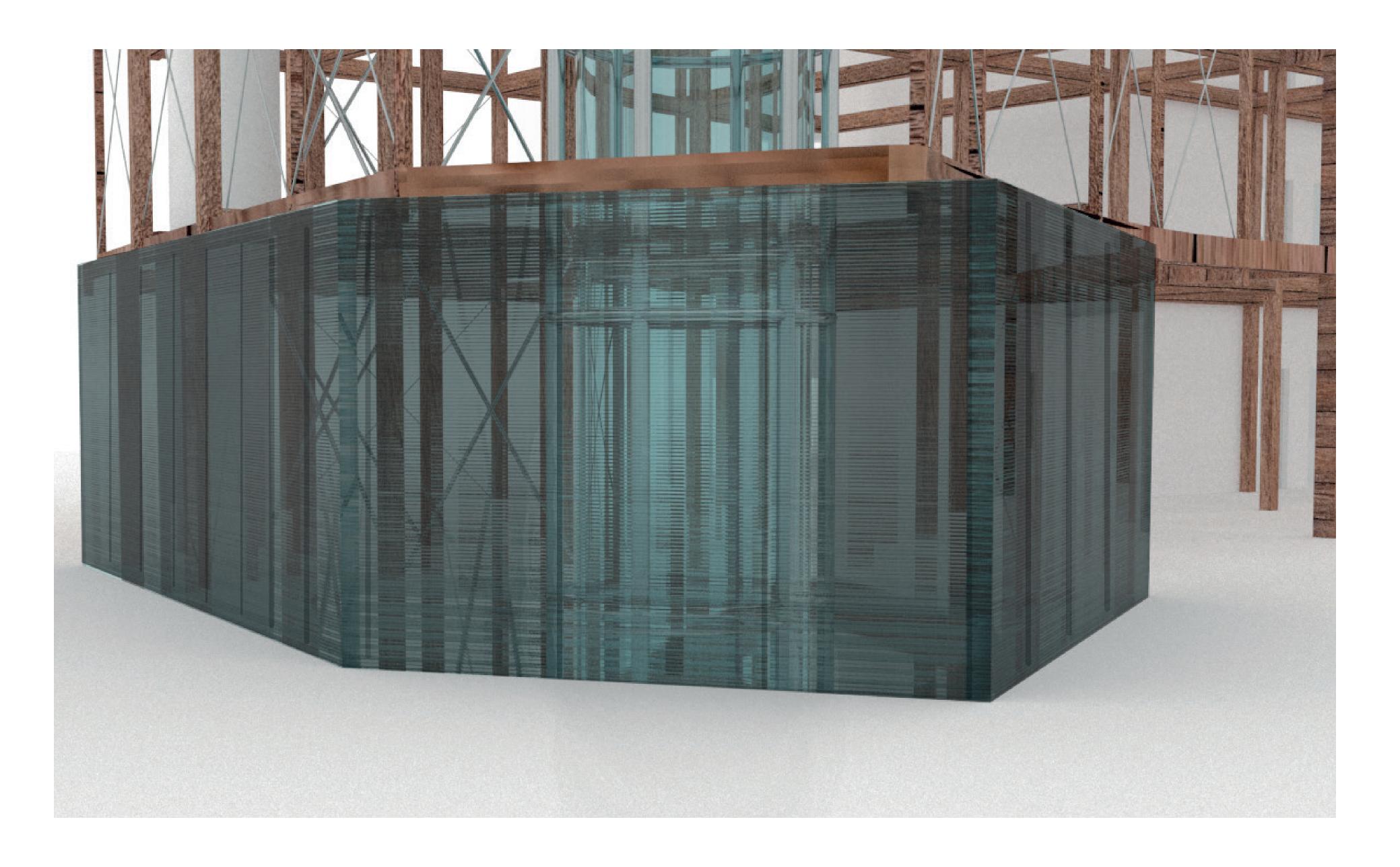
## Entrance and building front relationship



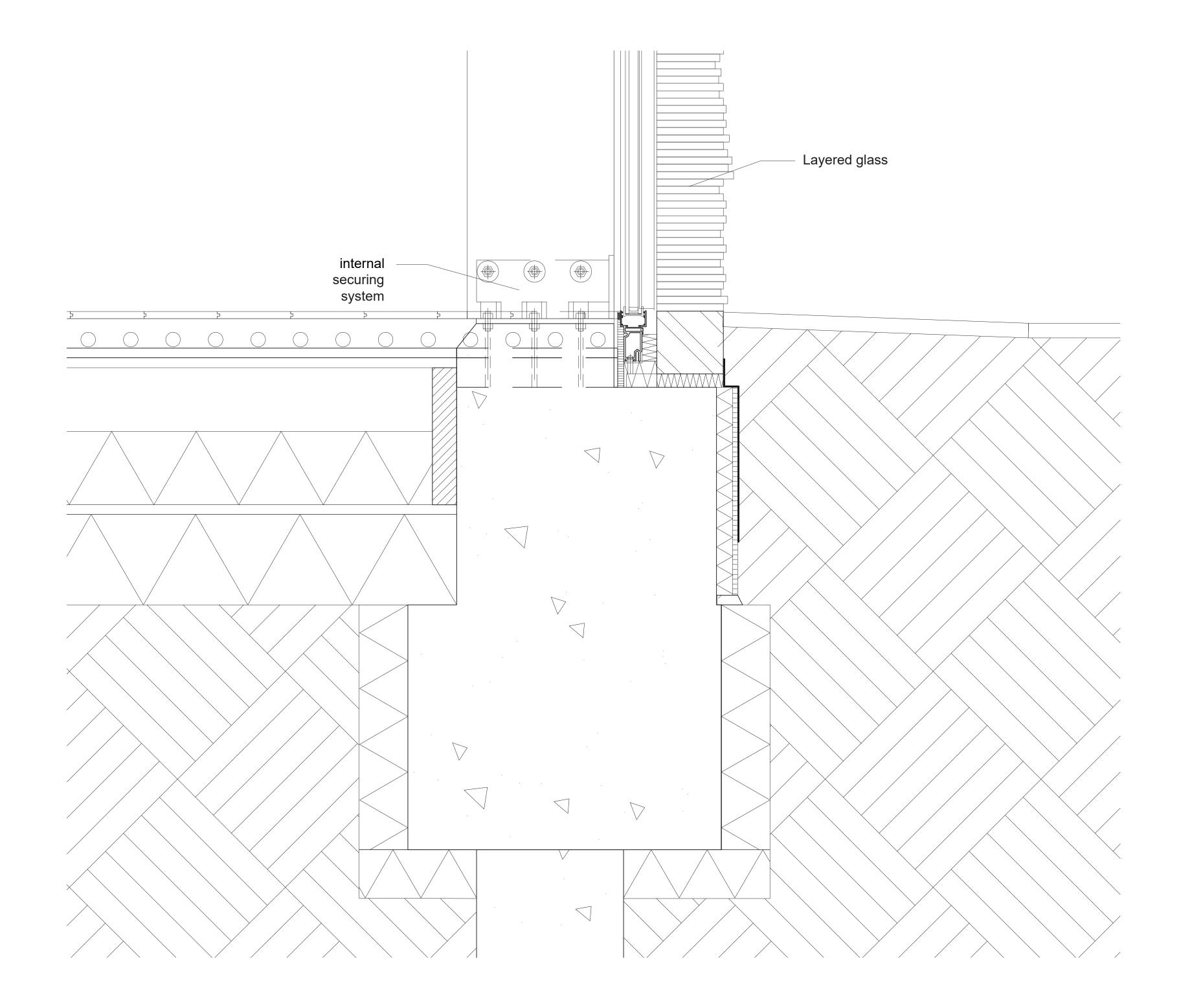
# Layered Glass

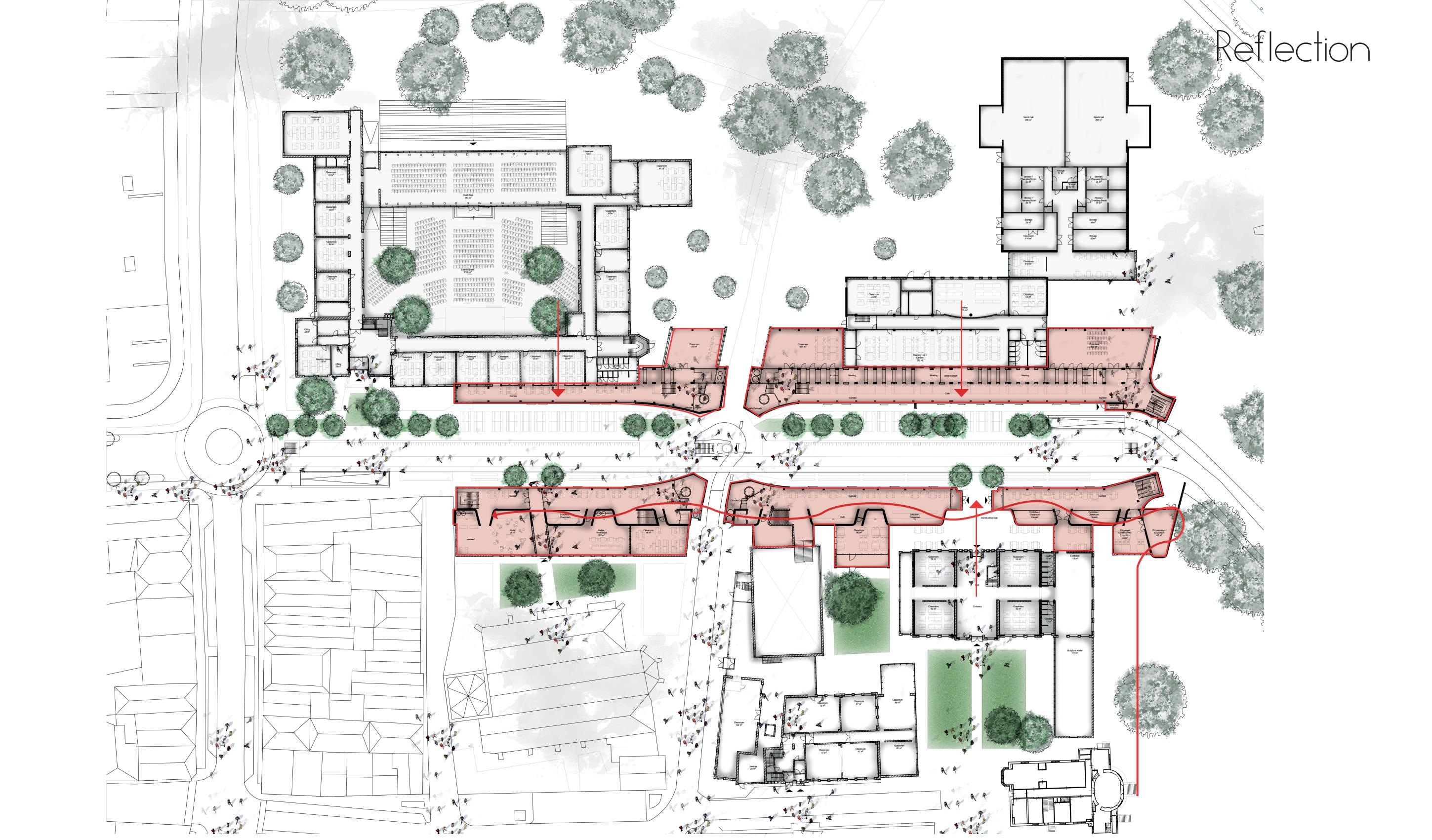






#### Detail

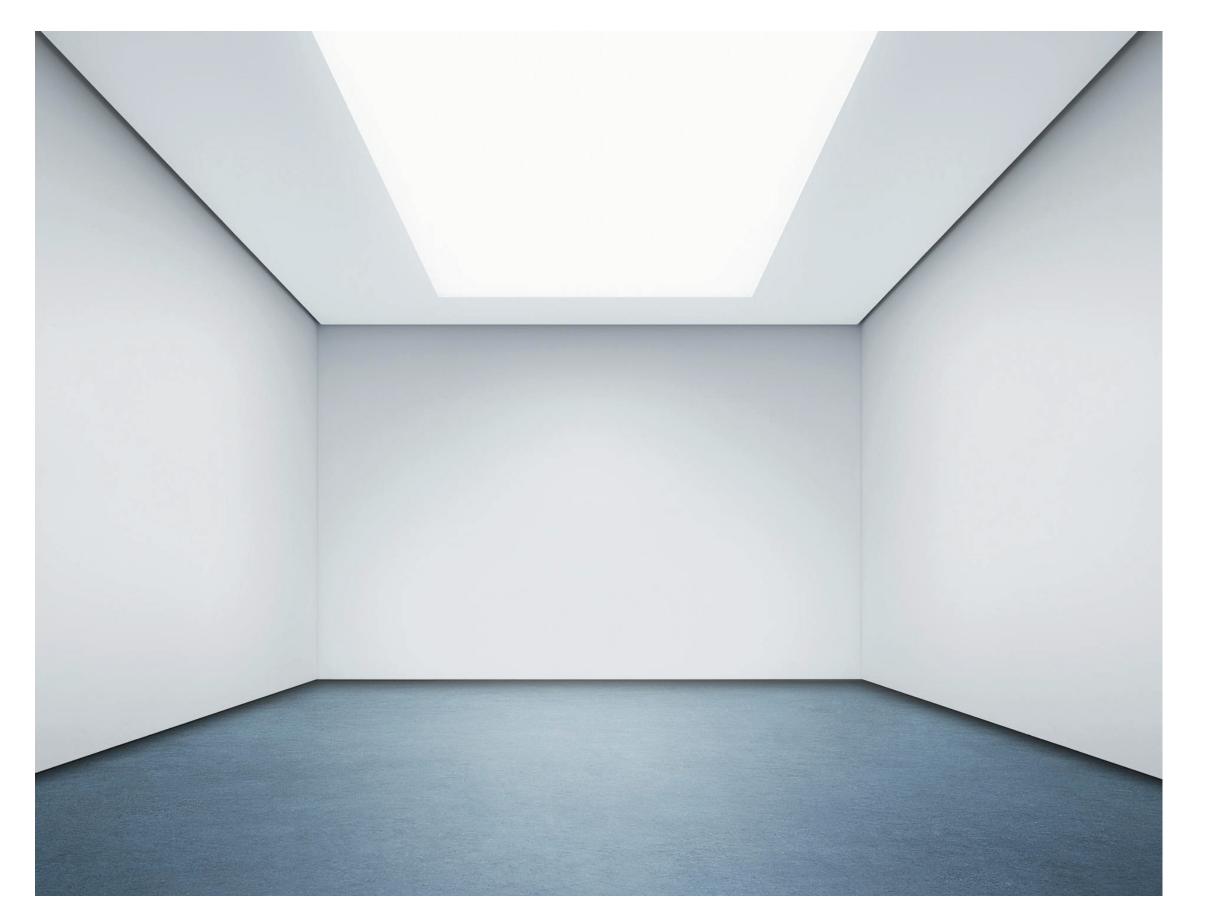








# Floor and ceiling







Source: Baudartius and Stedelijk Analysis by Jessica Admiraal and Malon Houben



Spirit of Place: Monofunctionality. First: convent, later barracks, now schools.

elevating the current one.

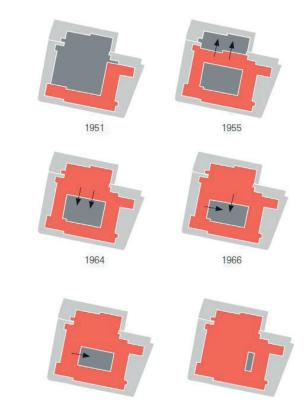


Social Value: The high school attracts many young people.

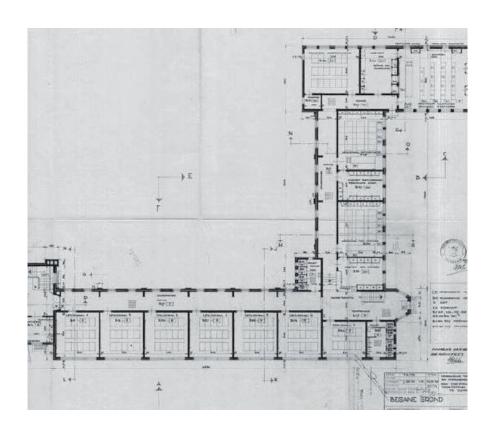
The values of the school lie in the development of the school plan, both a

resemblance of the school systems of the fifties, but also of the previous

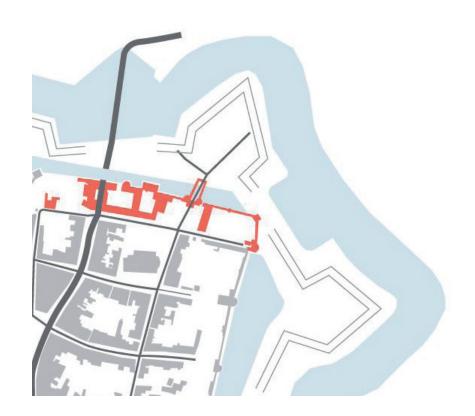
buildings. There is an opportunity to create tremendous use value by



Use Value:
The School has
always been a school
and interventions have
been done to a great
extent, both positively
and negatively.



Historical Value:
The Floor plan
developed from an
L-shaped corridor to a
H-shaped floor plan. It
is a conviction of the
school system from
the fifties.

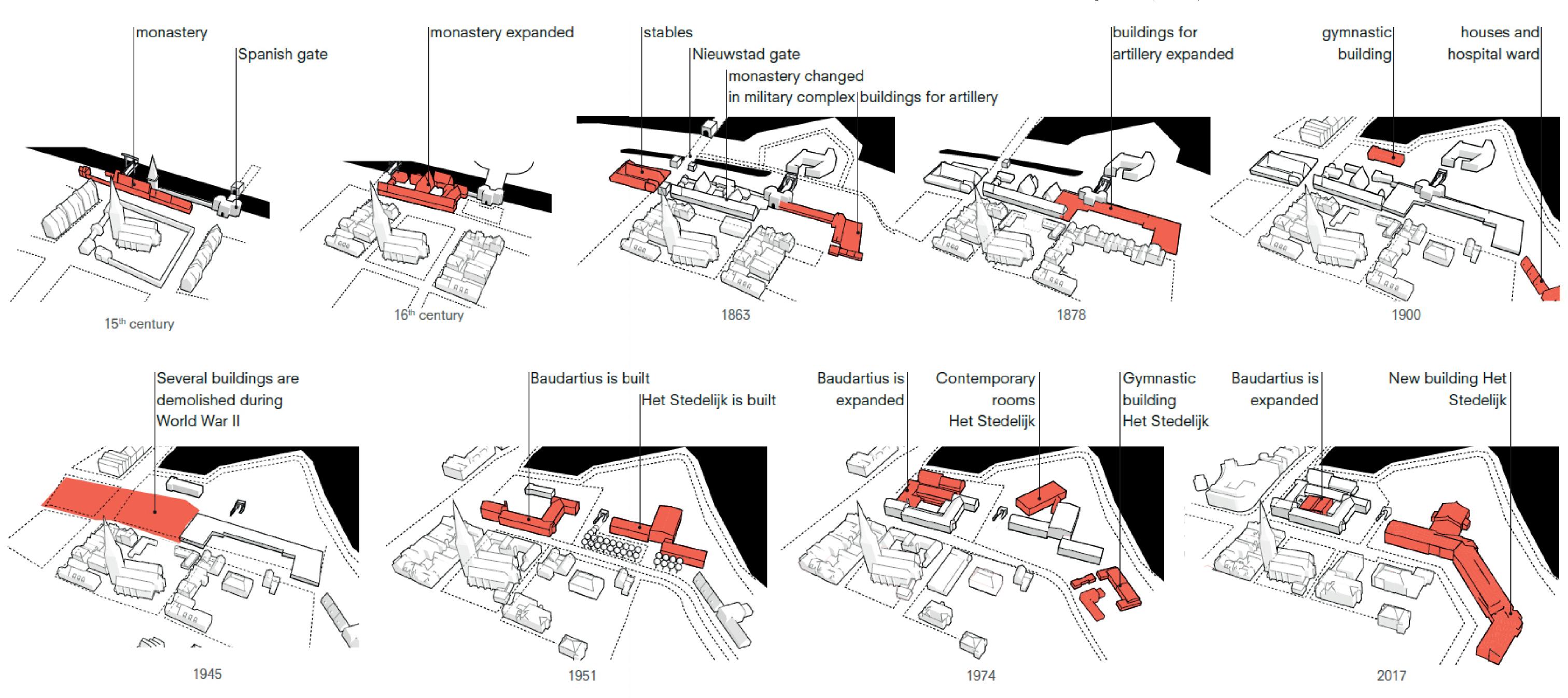


Obligation: Spanish
Gate & Bastions must
be preserved

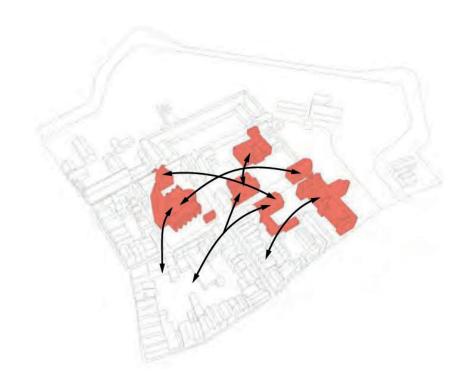


Obligation: Showing the ornaments of the oldest facades

Source: Baudartius and Stedelijk Analysis by Jessica Admiraal and Malon Houben



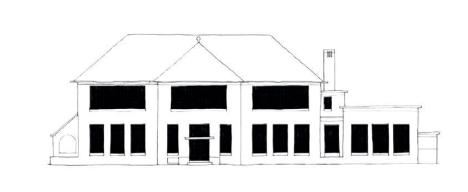
Source: Klein Vaticaan Analysis by Herco Bakker and Stavroula Birda



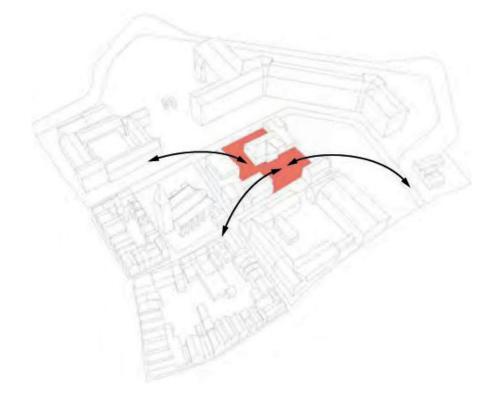
Social/Spiritual Value: Being part of a larger catholic community.



Aesthetical Value: St. Anna is a well preserved building in a "Postkantorengotiek" style.



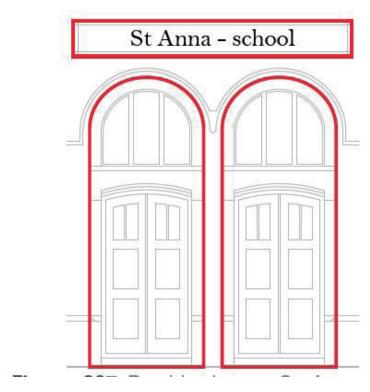
Use Value: The building is still a school and the skin is well maintained.



Social Value: The site is a gathering place for pupils.



Opportunities: Less ornamented facade could be changed.



Obligation: Double door entrance St. Anna reflects social context of the past.

The values of the St. Jozef lie in the development of the school plan, it's symmetrial plan is fighting for a comeback. There is an opportunity to create tremendous use value by elevating the current one.

Source: Klein Vaticaan Analysis by Herco Bakker and Stavroula Birda

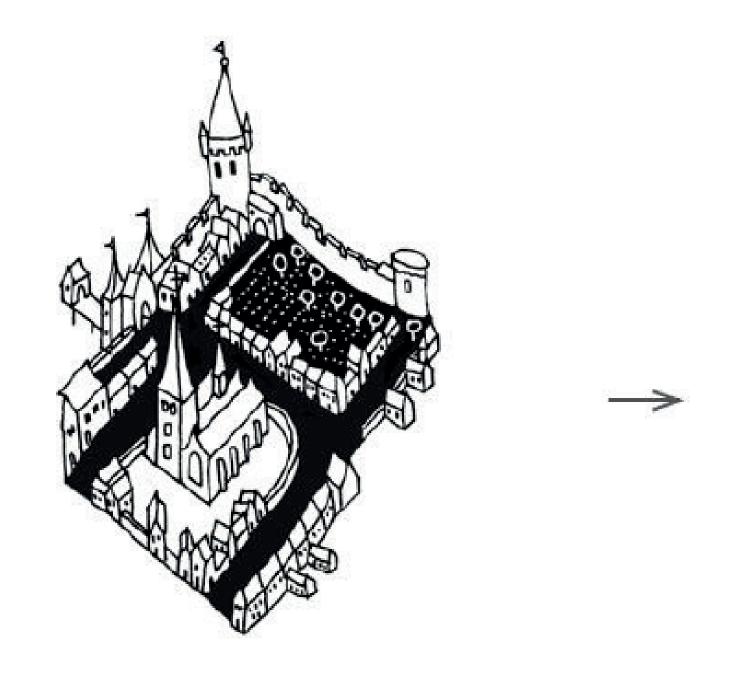


Figure 73 Klein Vaticaan - Schools - Space - 1649

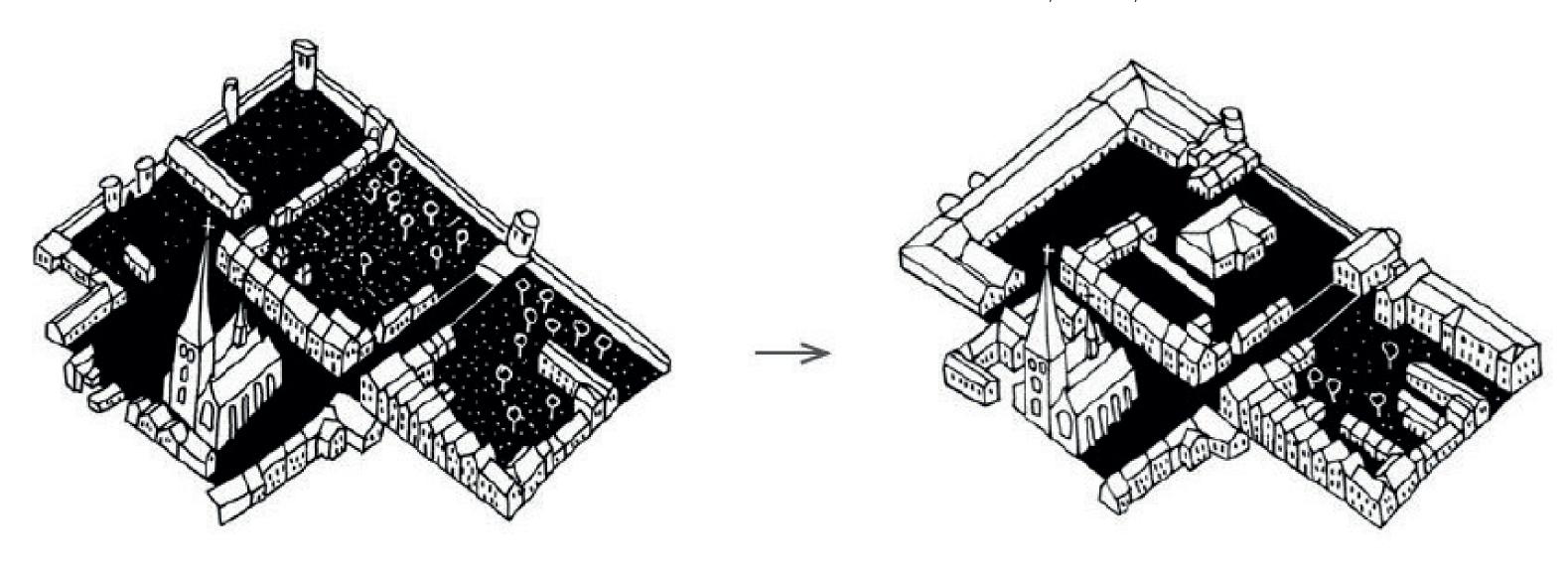


Figure 75 Klein Vaticaan - Schools - Space - 1823

Figure 76 Klein Vaticaan - Schools - Space - 1909

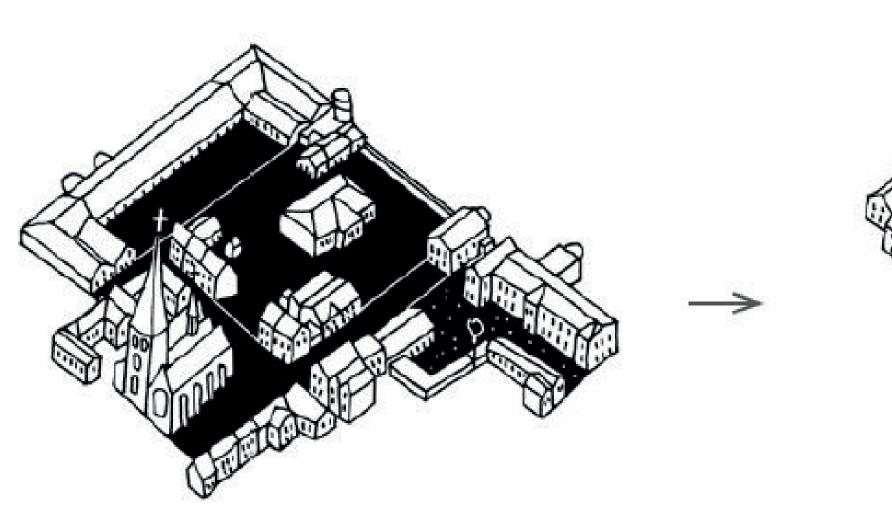


Figure 74 Klein Vaticaan - Schools - Space - 1909

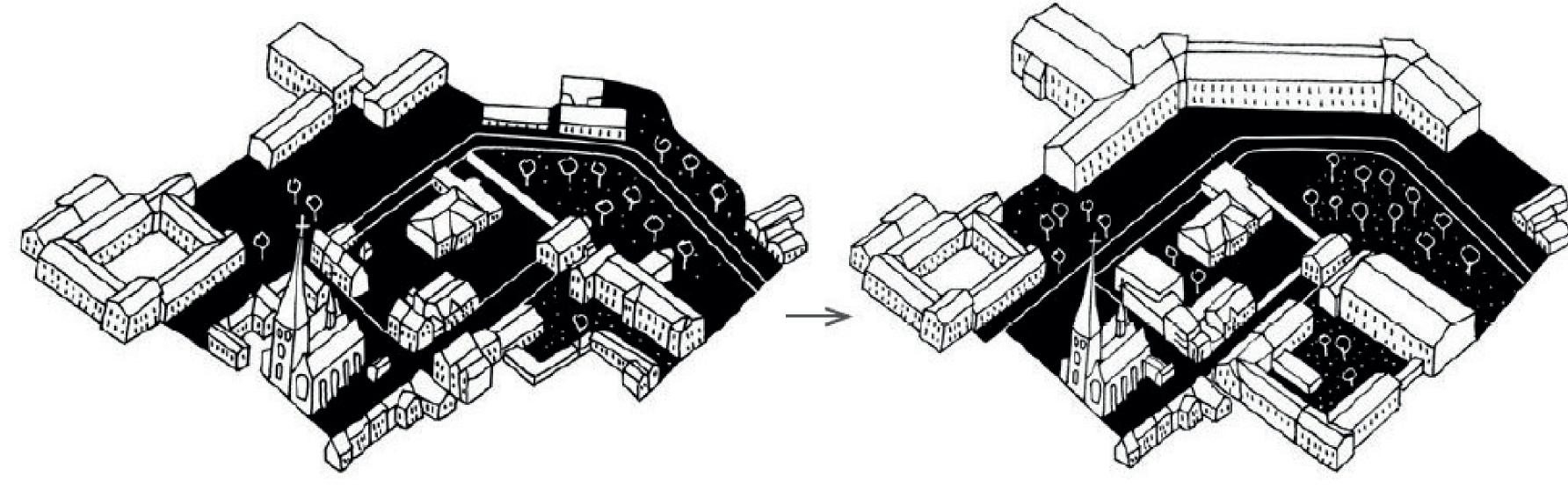


Figure 77 Klein Vaticaan - Schools - Space - 1950

Figure 78 Klein Vaticaan - Schools - Space - 2017

