

The new art & dance academy of Apeldoorn.

Re-interpretation of Centraal Beheer Office to a creative city for students and the inhabitants of Apeldoorn.

Technical University Delft
Heritage & Architecture
Graduation Studio | The future of Structuralism
24-1-'19

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4542460

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Value assesment

3

New program

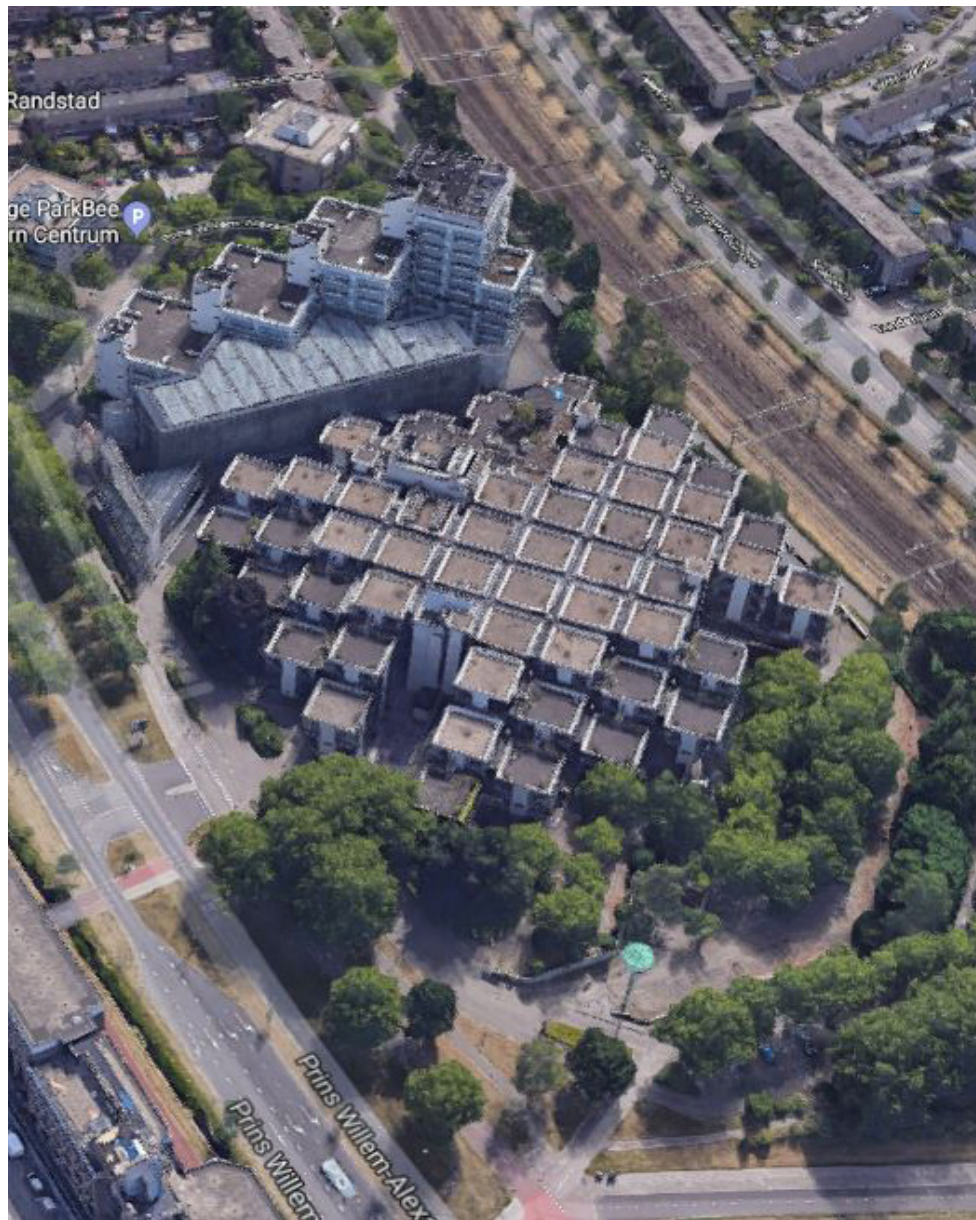
4

Design

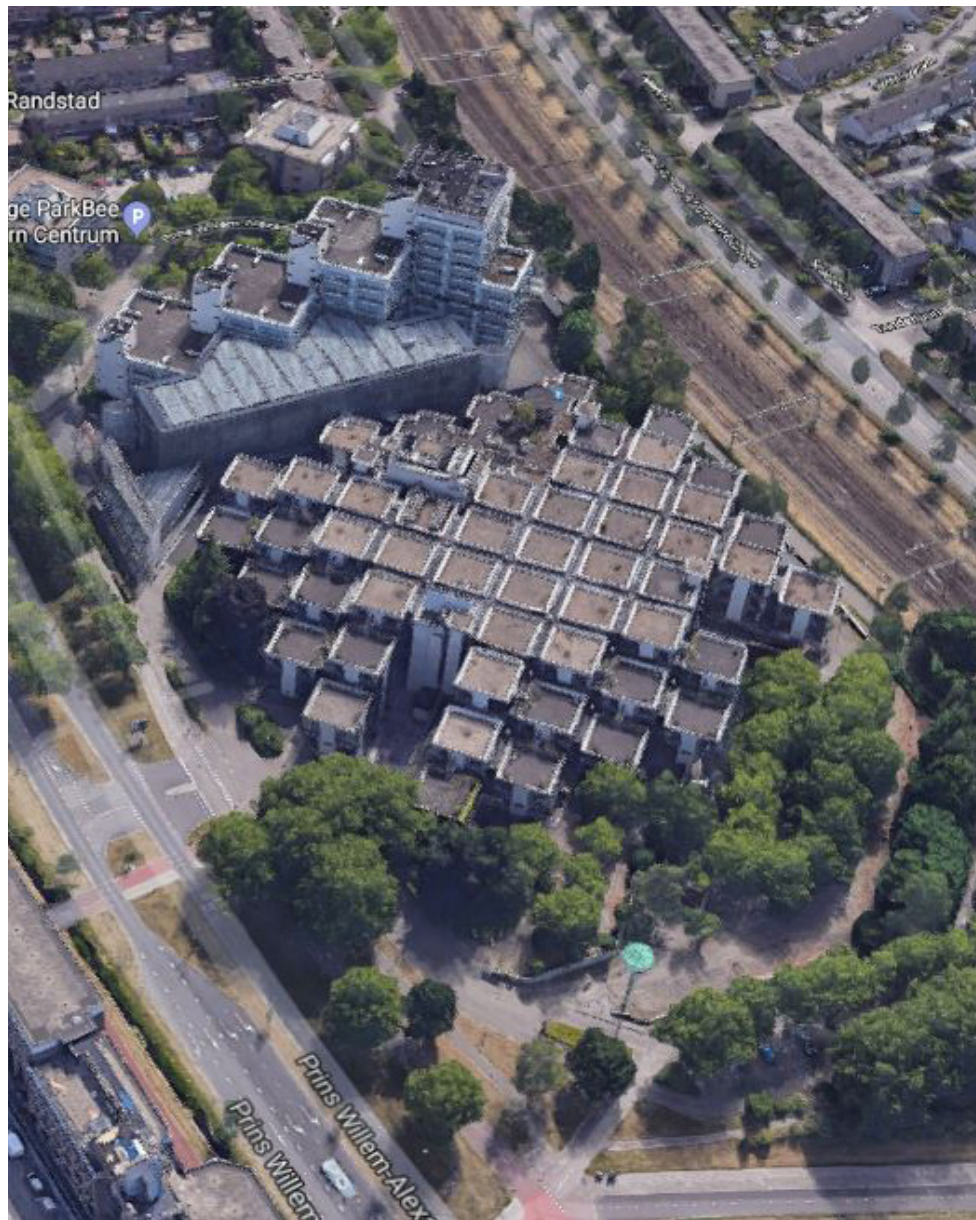
5

Conclusion

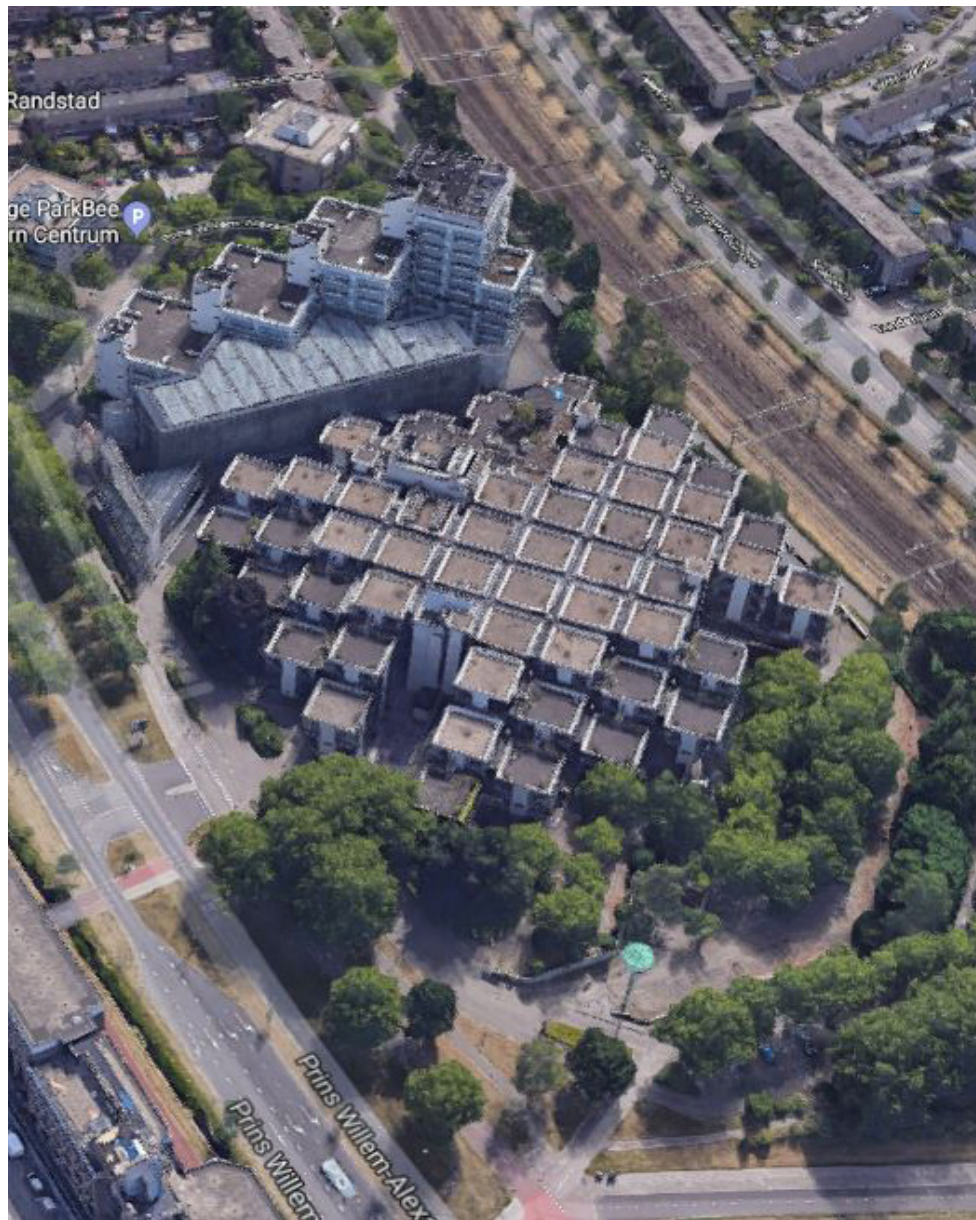
Overview



Overview



Overview



“How to create hierarchy in a structuralist building without affecting the value and the structural appearance of the building?”

Intro

Centraal Beheer
25.000m²

Year:
1972

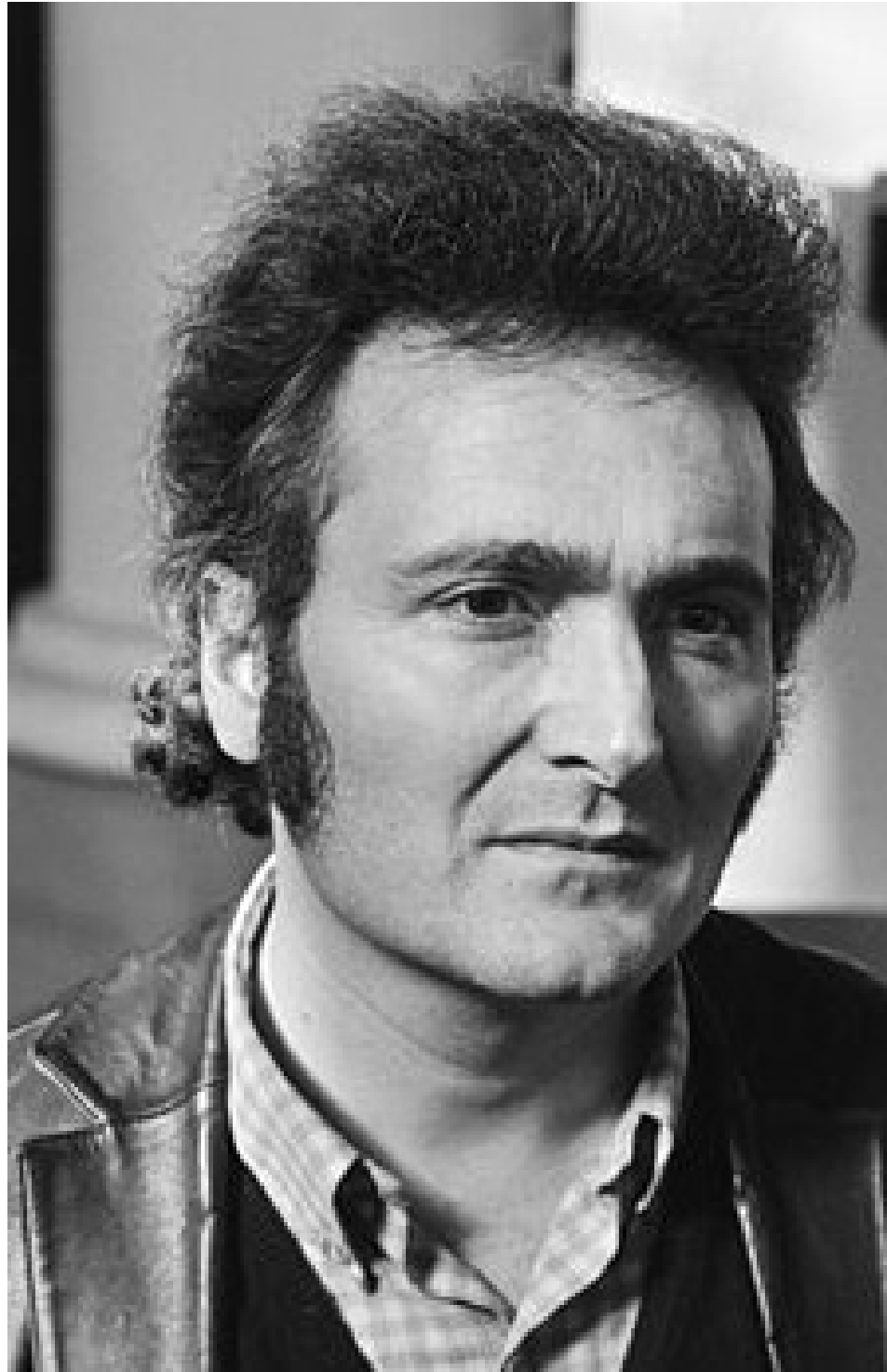


Intro

Centraal Beheer
25.00m²

Year:
1972

Architect:
Herman Hertzberger



Intro

Centraal Beheer
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Apeldoorn



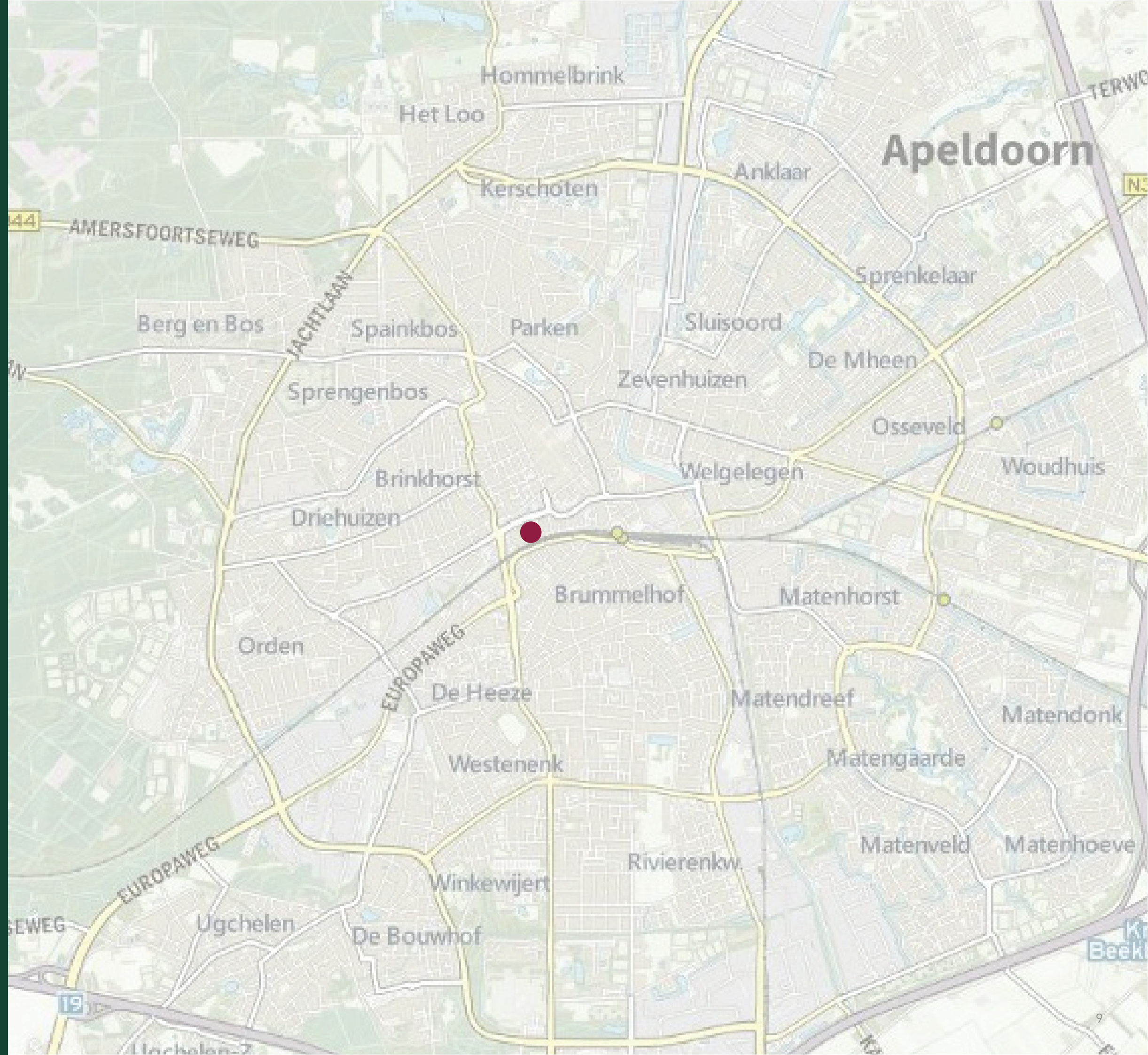
Intro

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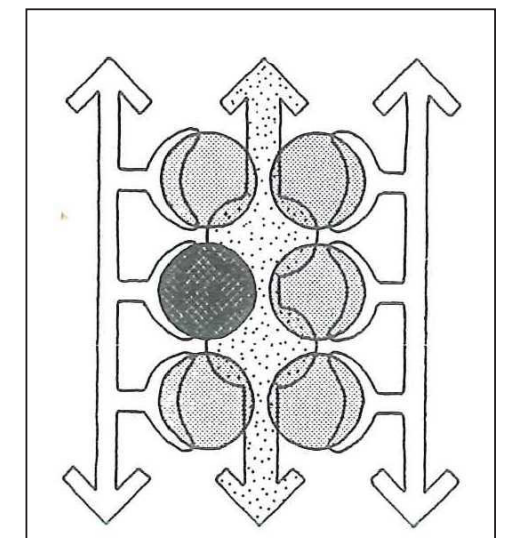
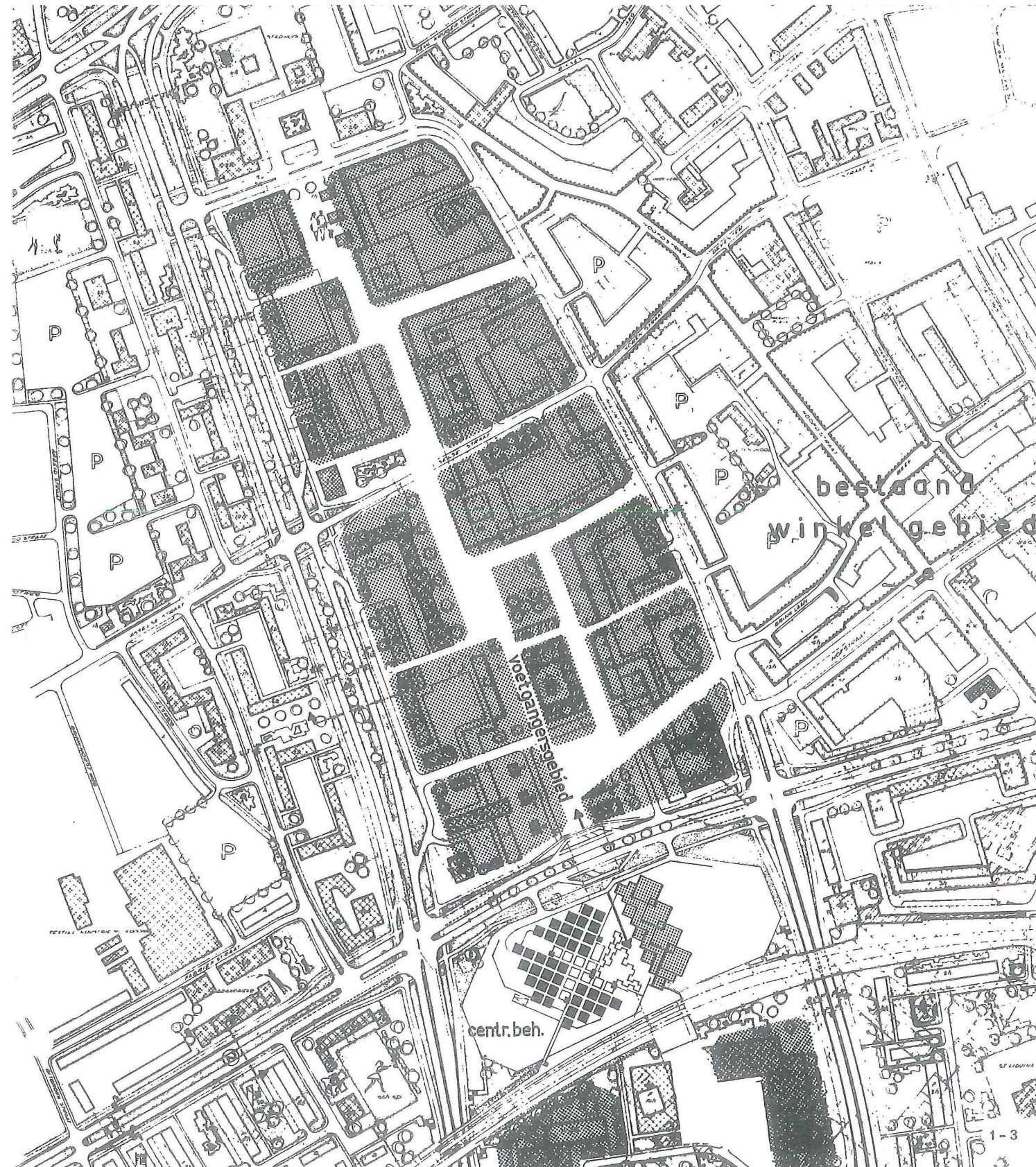
Location:
Apeldoorn



Intro

Masterplan 1972:

- Move station
- Centraal Beheer as new entrance of the city centre.



Intro

Current situation



Intro

Current situation

Masterplan not realised

Building became isolated from surrounding by the railway, Prins willem-alexandelaan and Koning stadhouderlaan.

Vision towards the city blocked by plakhoed building.



Intro

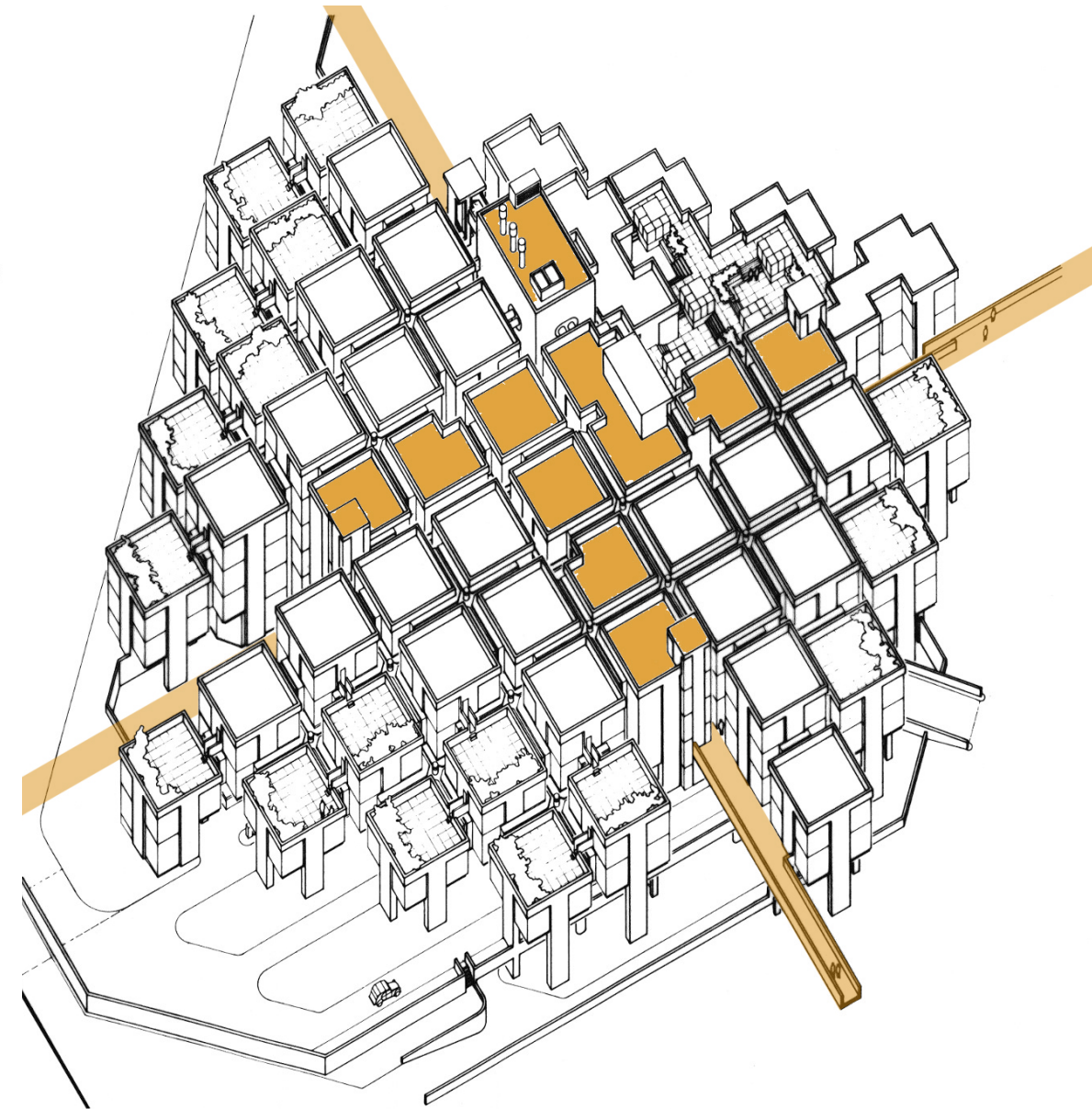
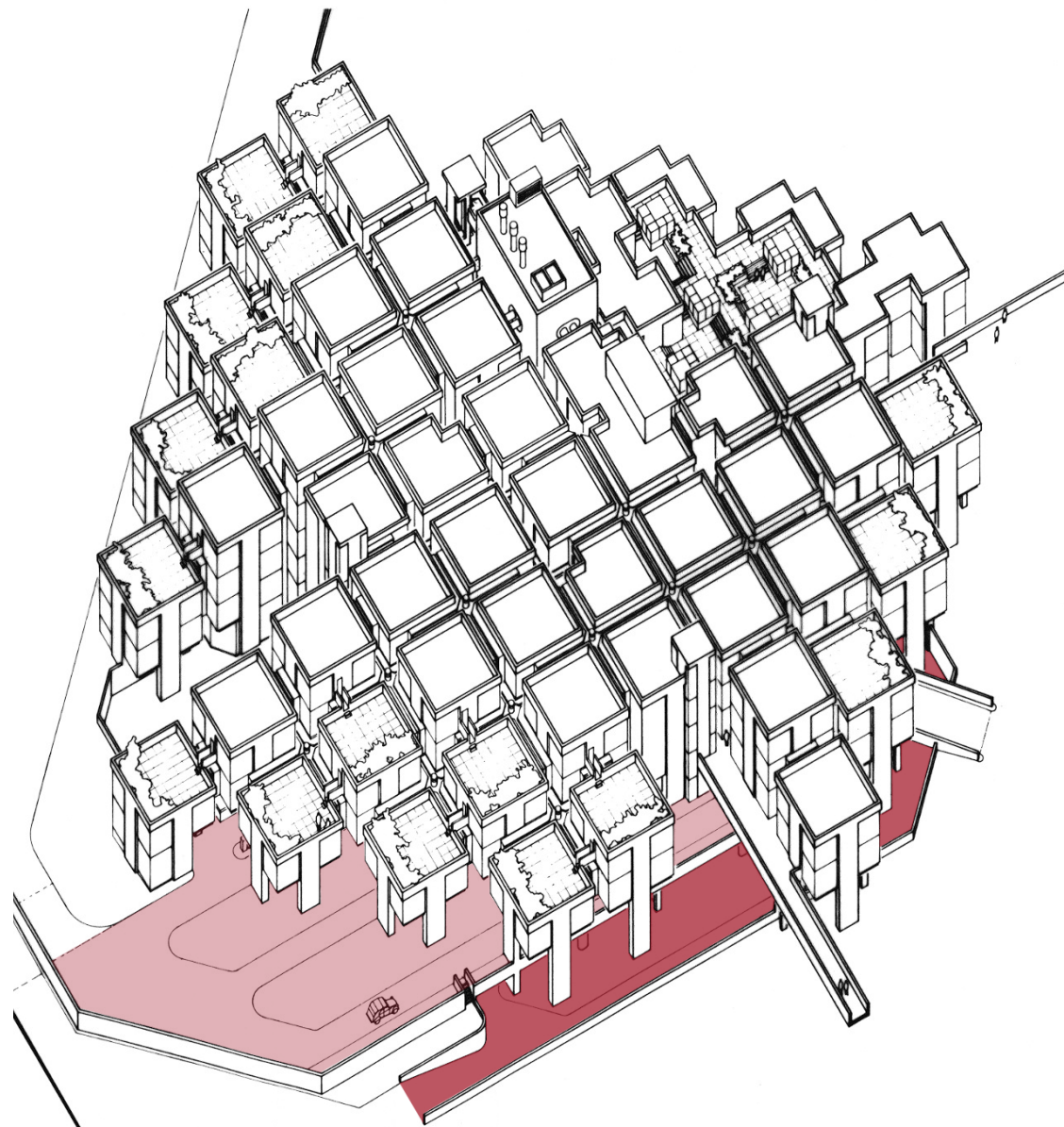
Building components

4 quadrants

Offices

Street

Garage



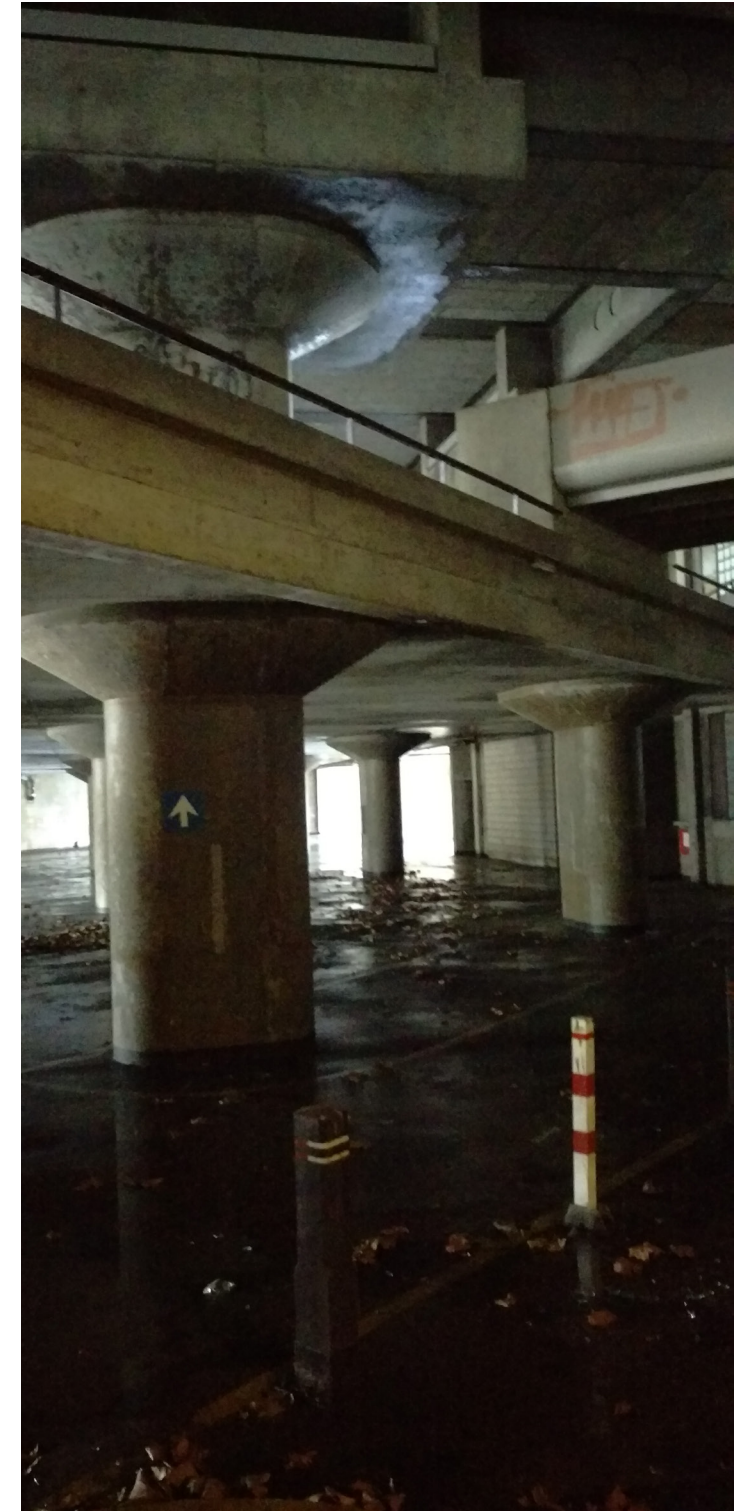
Intro

Building components:

Street

Offices

Garage



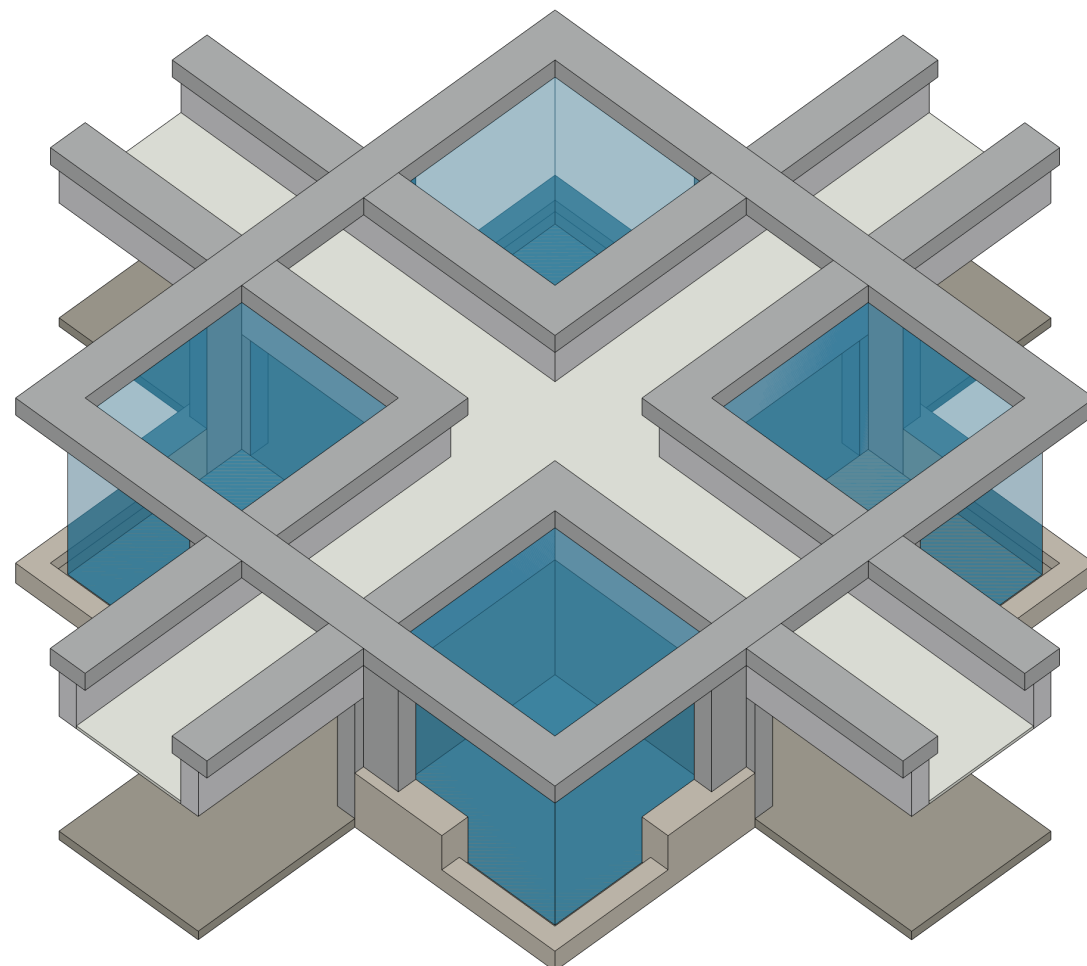
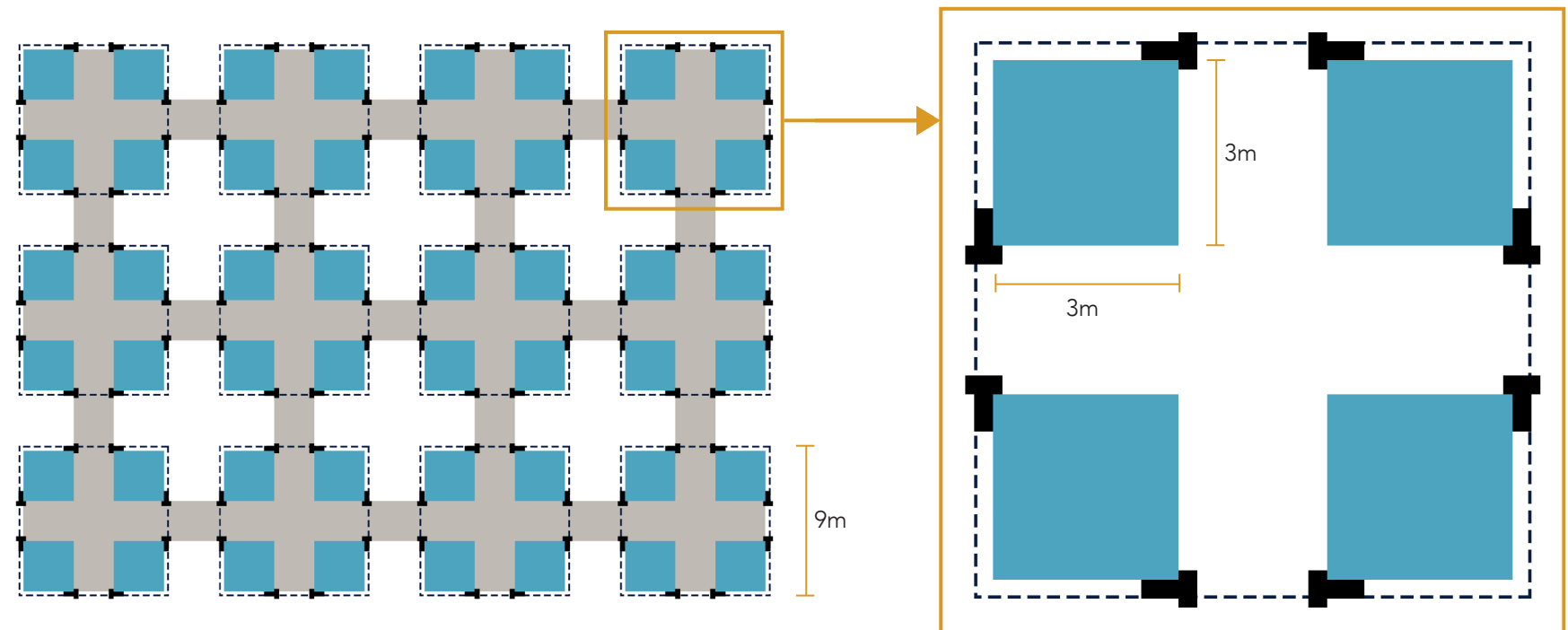
Intro

Unit

9 x 9

Workspaces 3 x 3

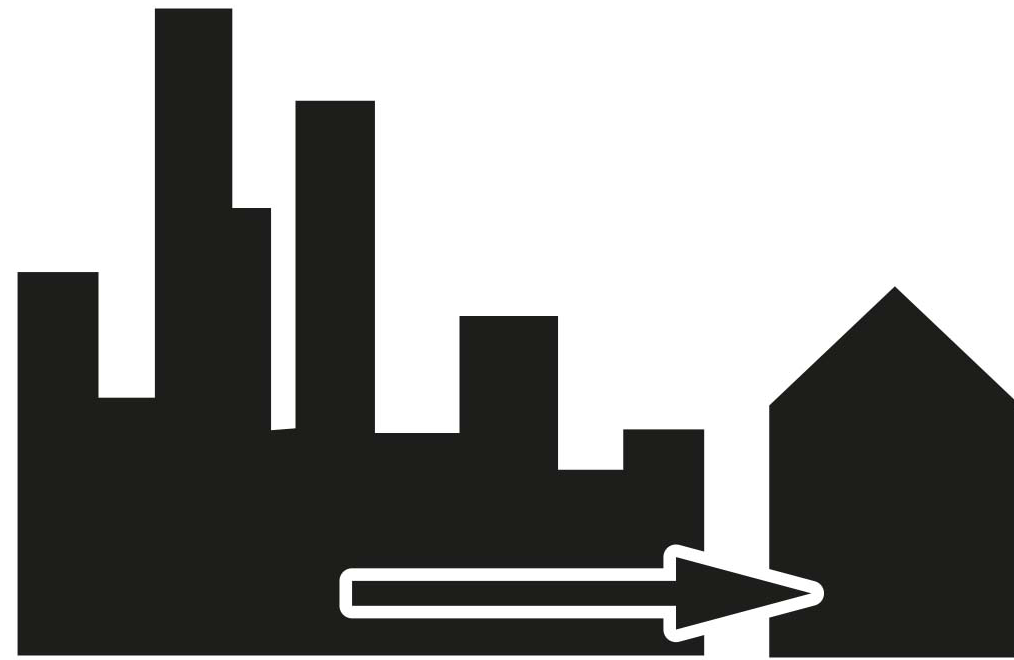
Raw finishing



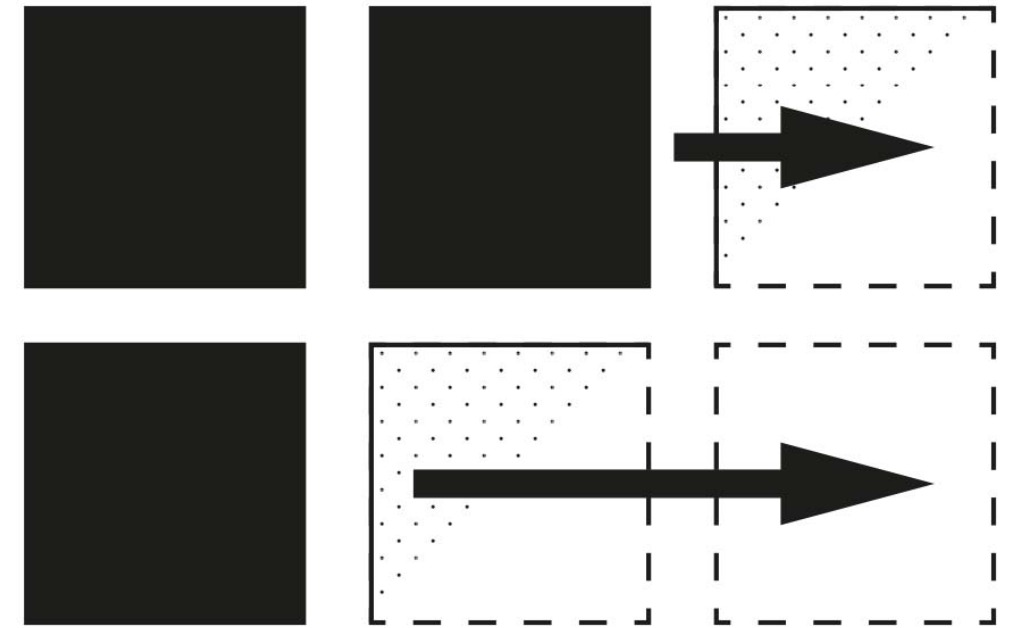
Intro

Structuralism

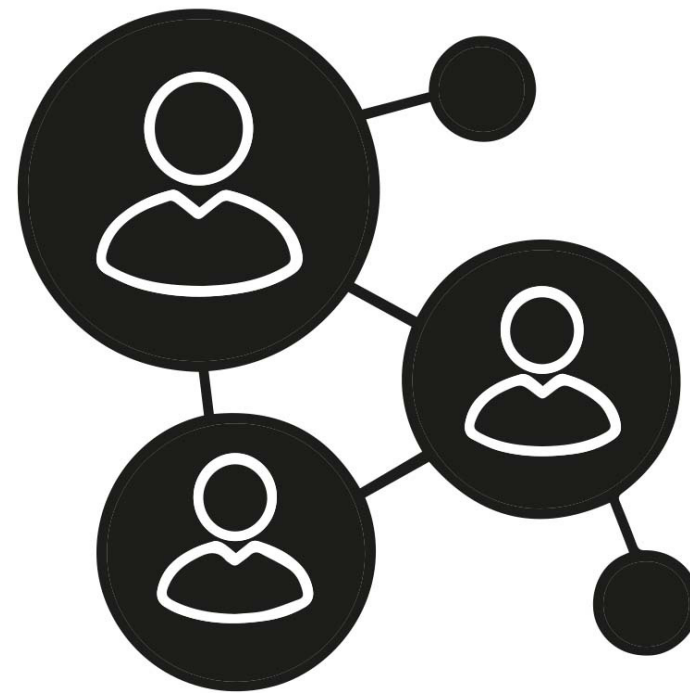
Looking for **new architecture** which seeks to a development of the **individual** and **social** qualities.



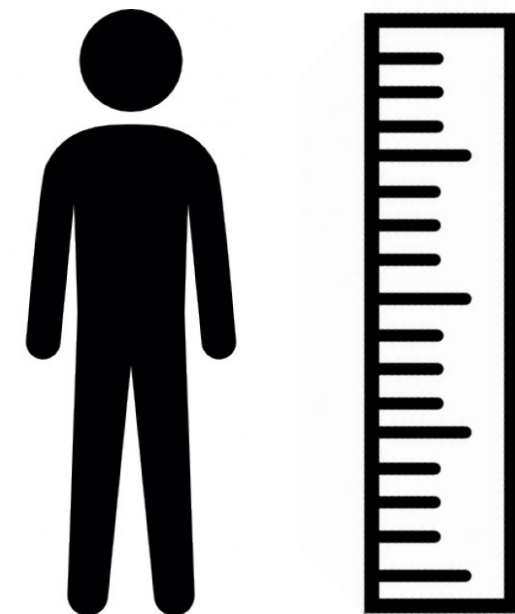
Building as a city



Growth



Social interaction



Human scale

1

Introducation

2

Value assesment

Space plan
Skin

3

New program

4

Design

5

Conclusion

Value

Exterior

- + Strong composition
- + Translation of the function behind
- No clear entrance
- Surrounding not at the same level as the street of the building



Value

Exterior

- + Strong composition
- + Translation of the function behind
- No clear entrance
- Surrounding not at the same level as the street of the building



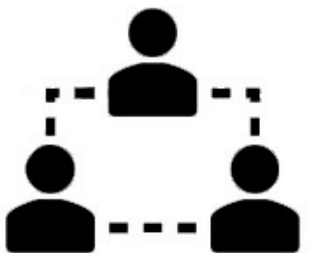
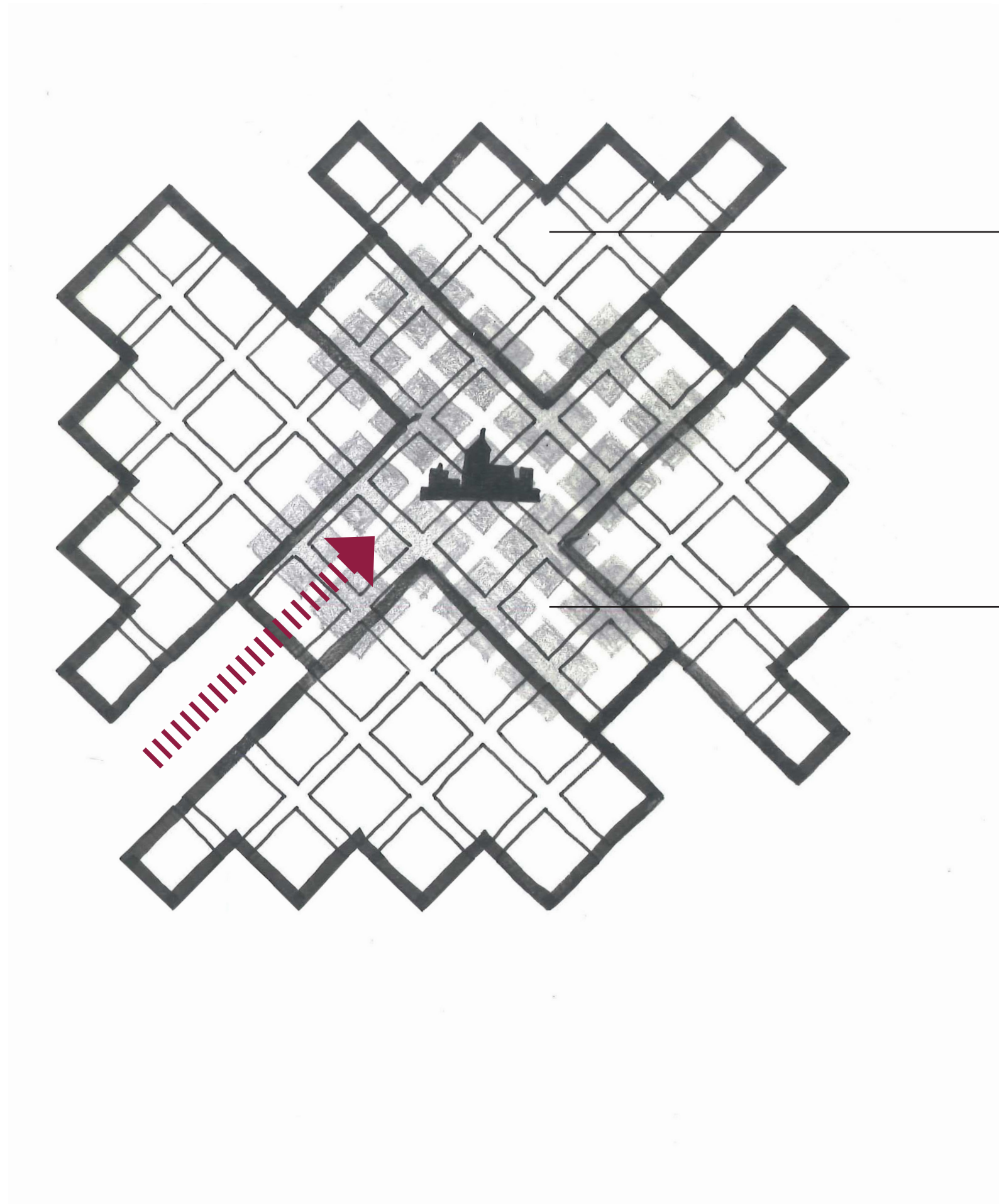
Start offices and street

Ground of the surrounding

Value

Space plan

- + Building as a city
- + Entering in a active space
- + Encourage people te meet

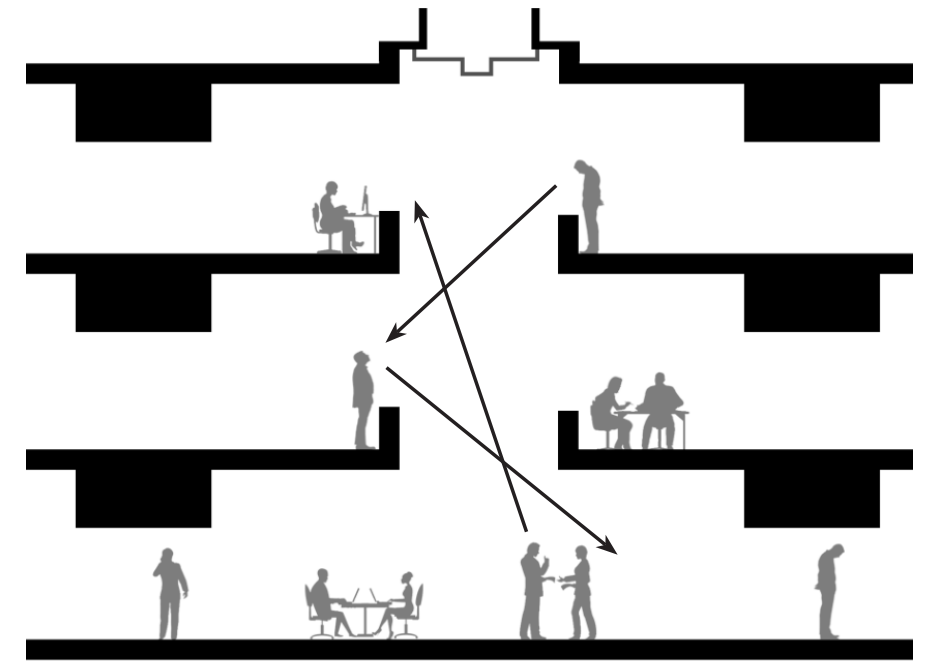
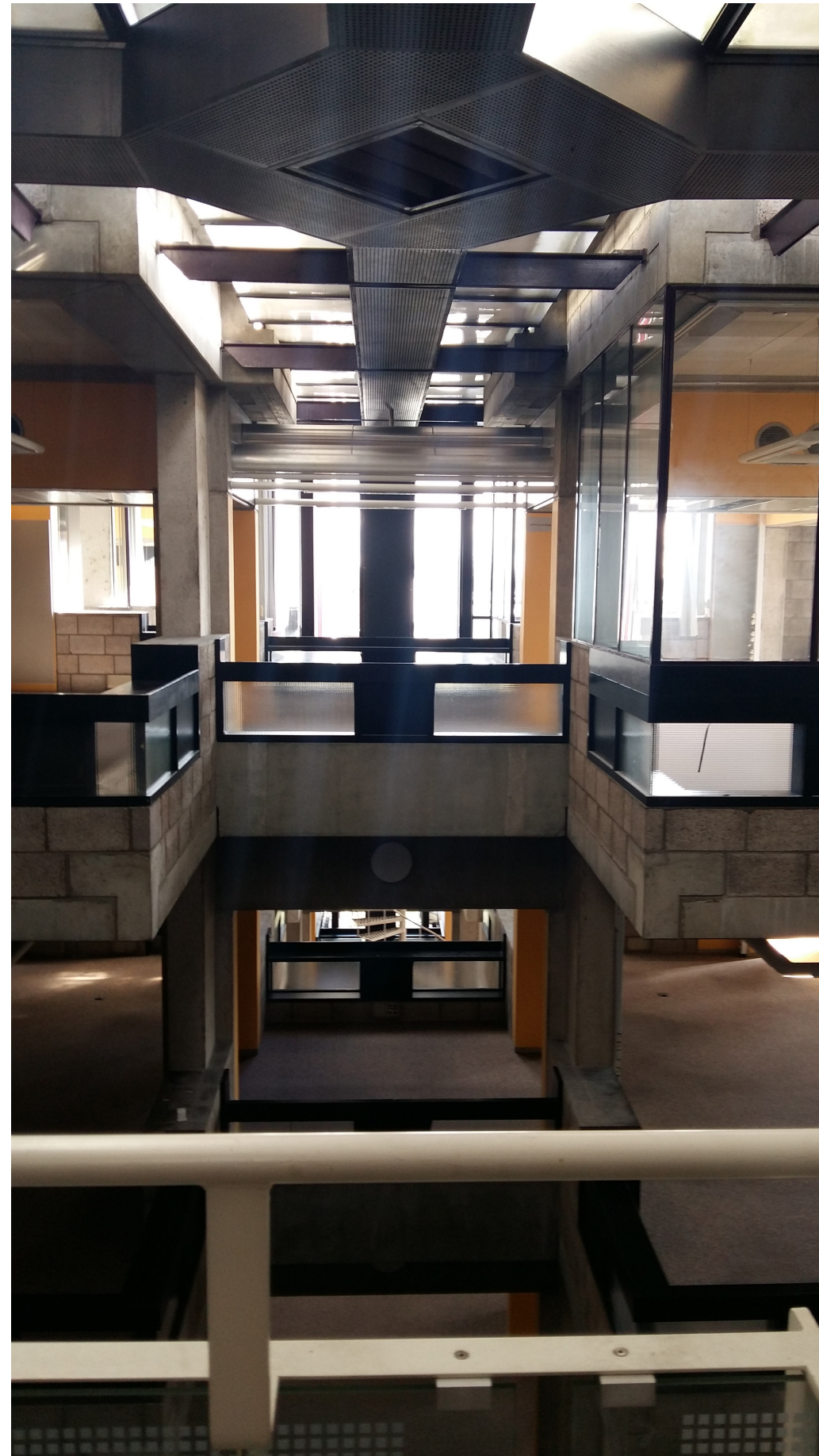


Value

Space plan

+ Open floorplan

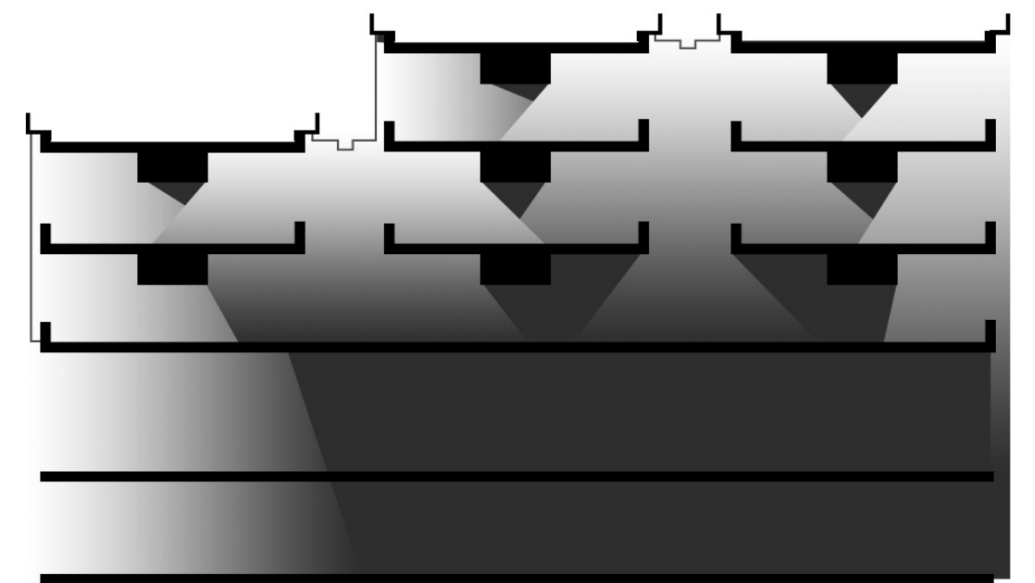
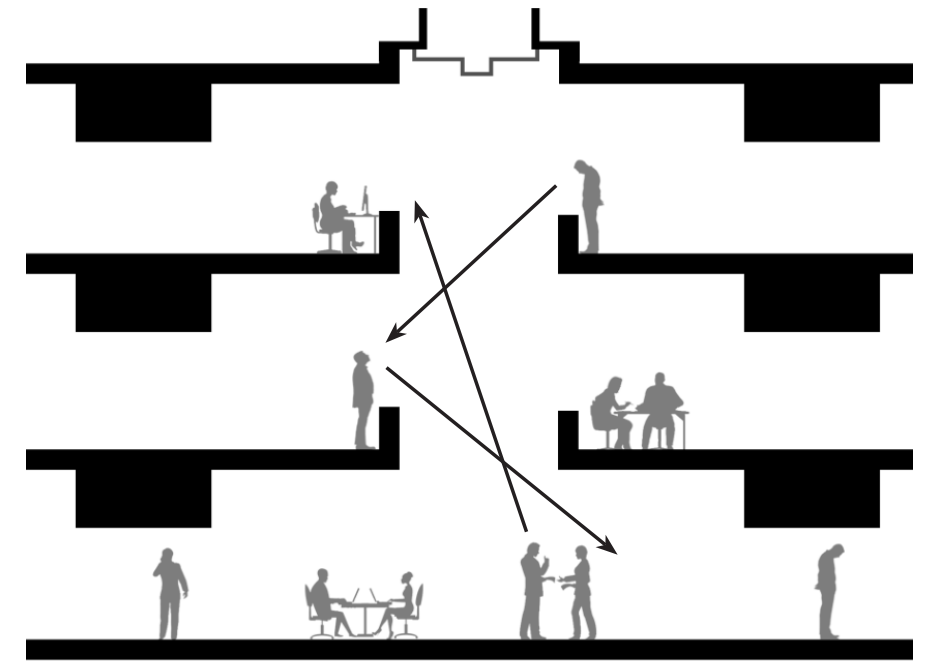
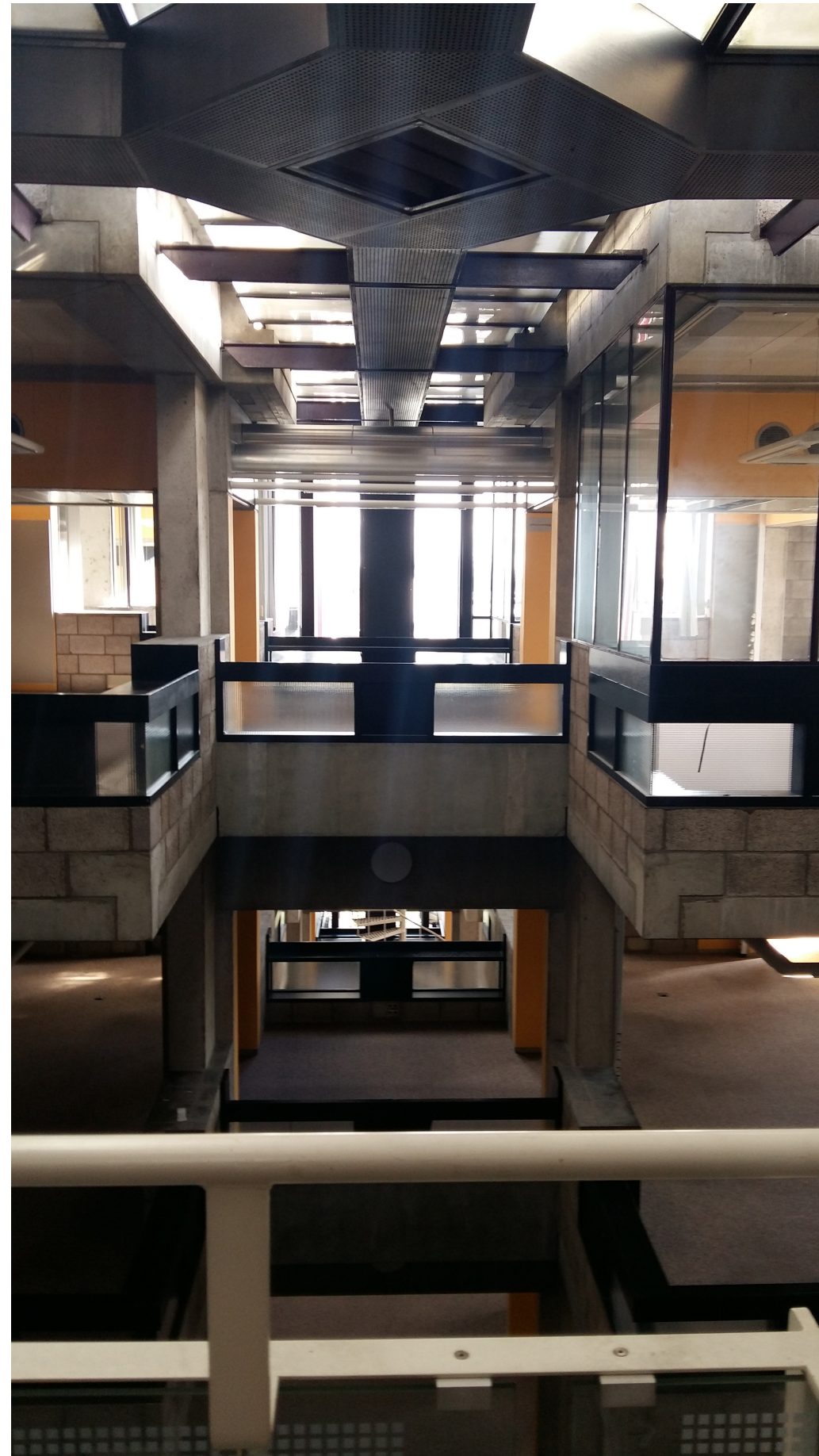
+ Vertical interaction



Value

Space plan

- + Open floorplan
- + Vertical interaction
- Lack of natural light



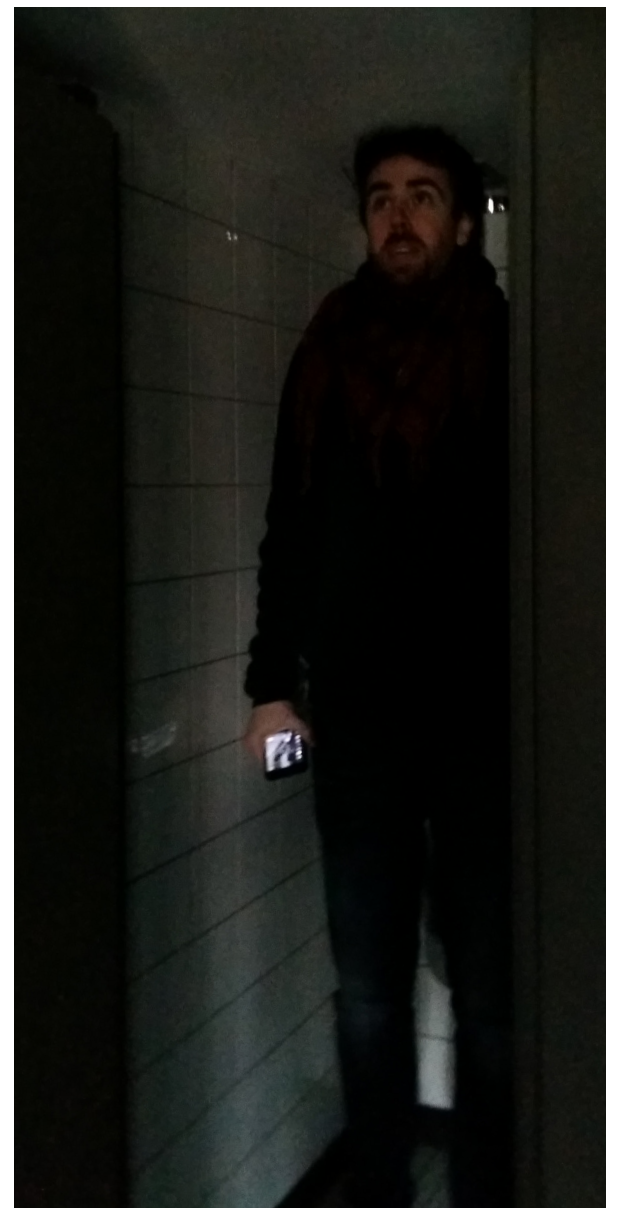
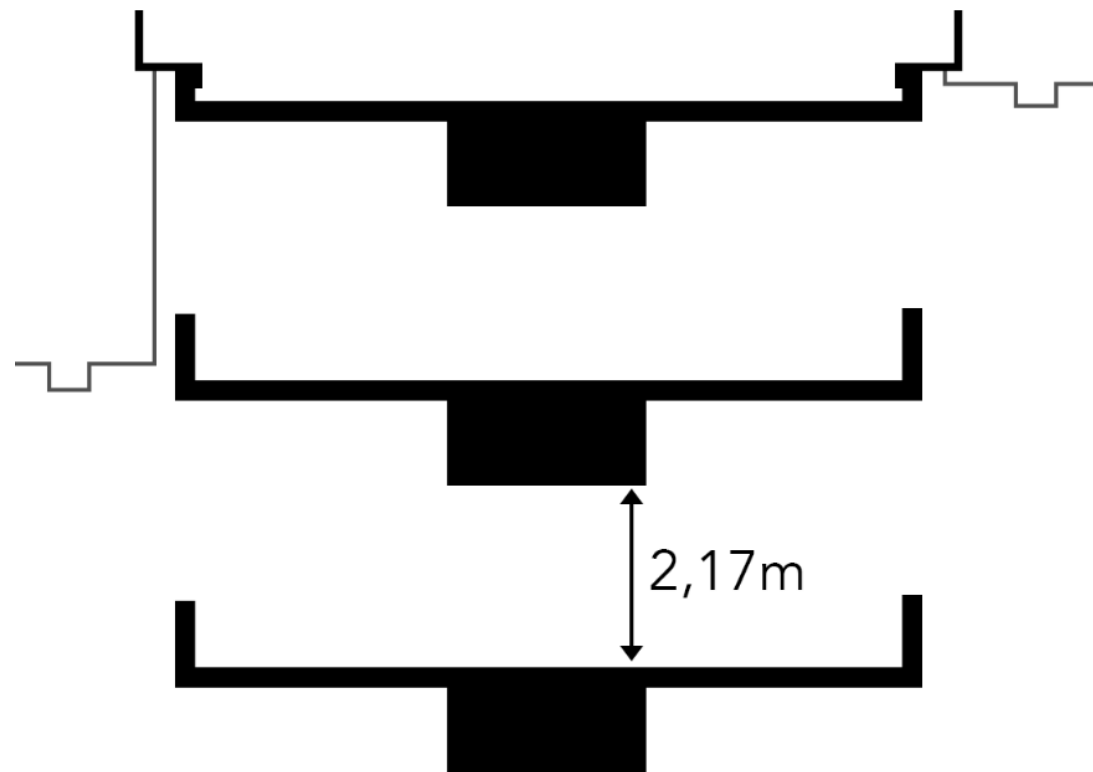
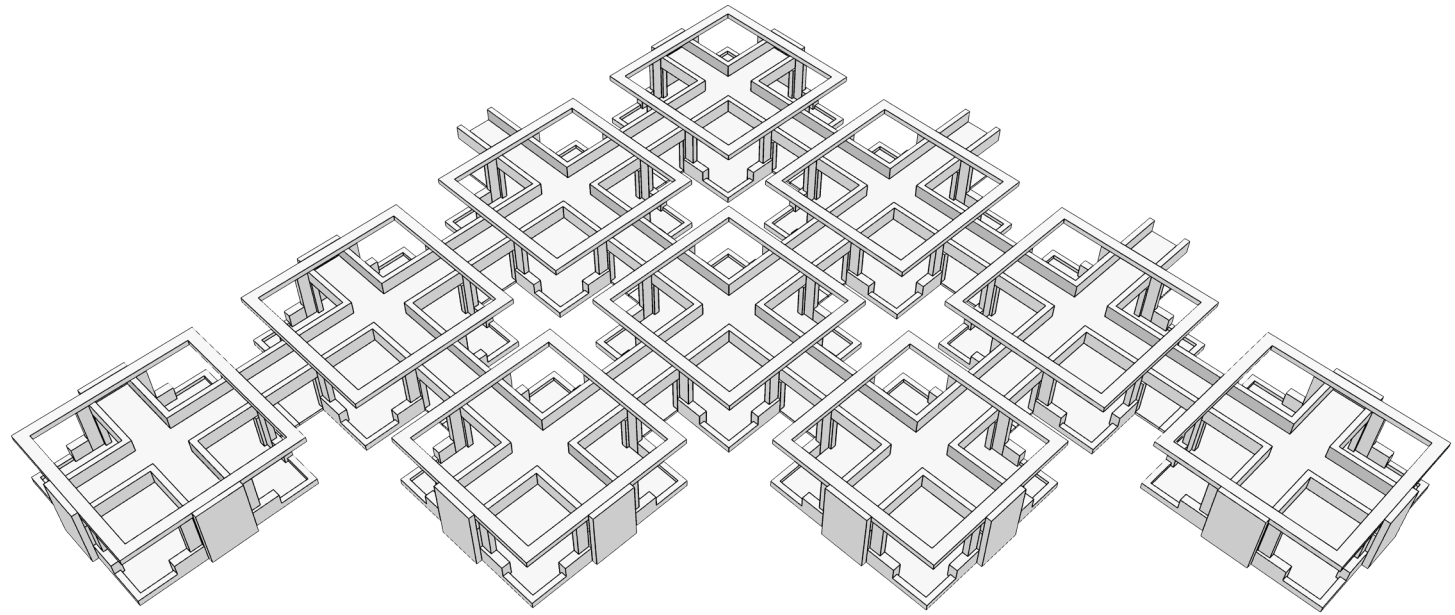
Value

Space plan

+ Overdimensioned structure

- Designed to be flexible but limited possibilities

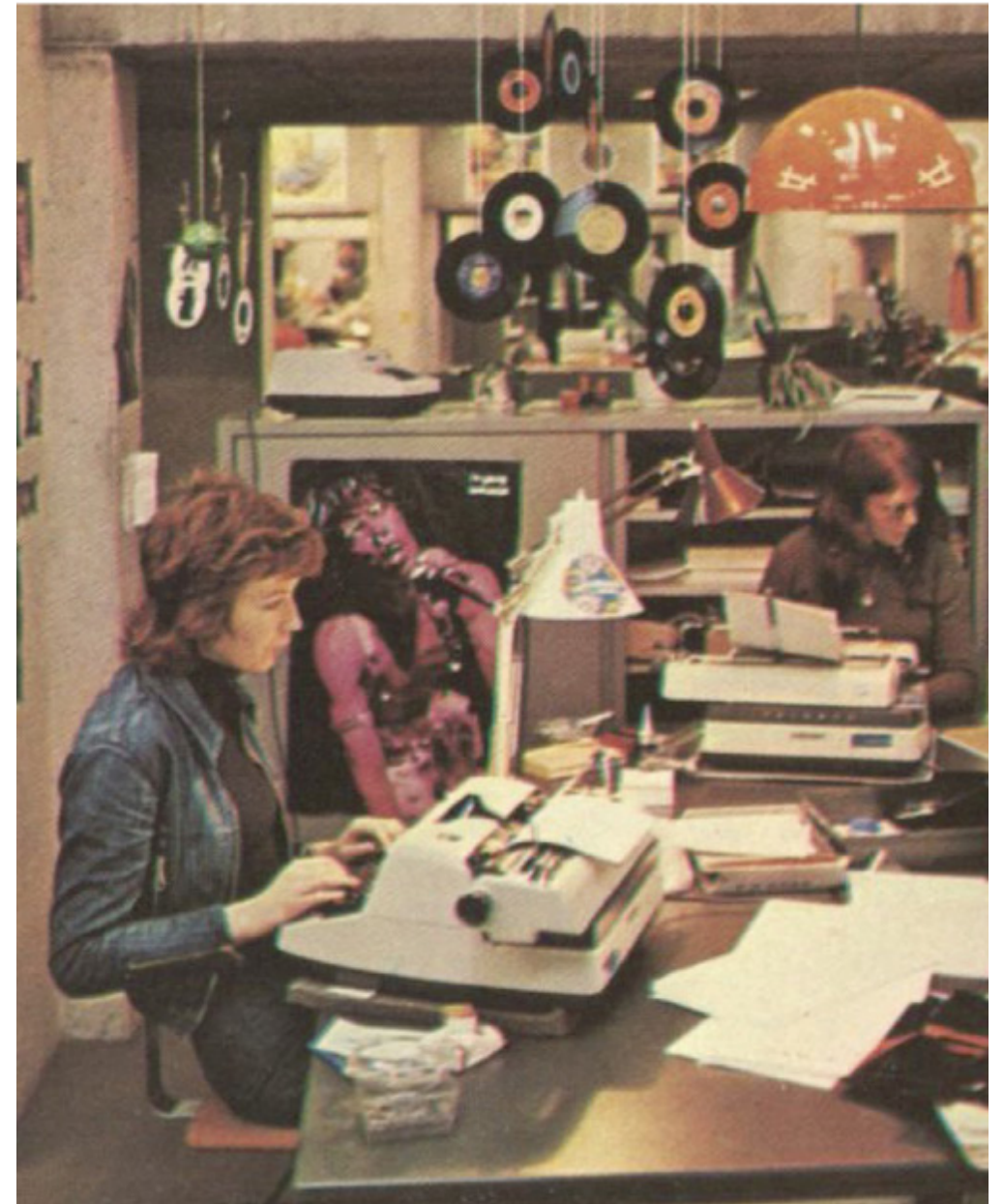
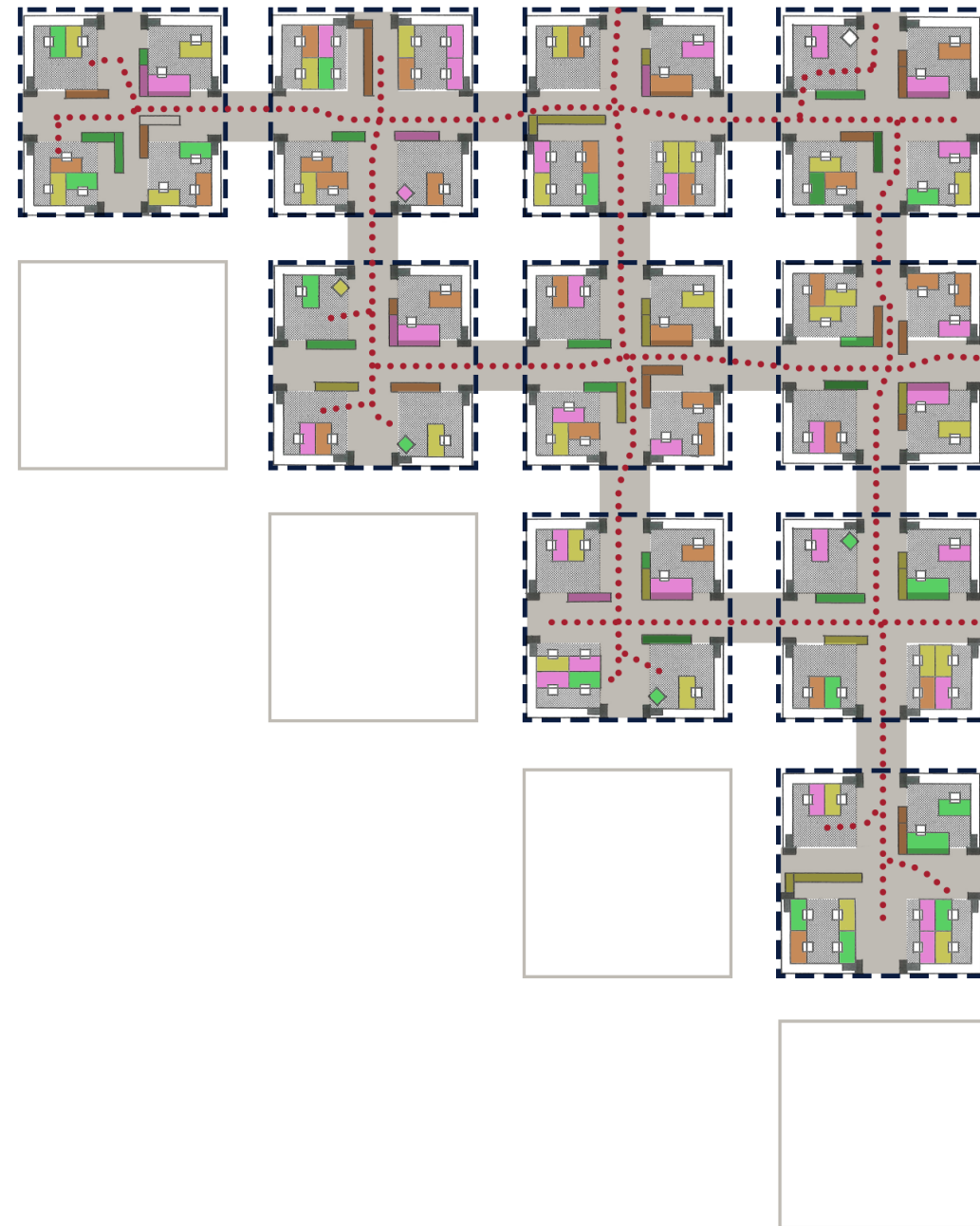
- Low ceiling



Value

Orientation

+ Give the users the freedom to make the building there own



Value

Orientation

- + Give the users the freedom to make the building there own
- No idification marks



Value

Overview

Positive qualities	Problems	
Clear composition	No orientation because of the lack of idification marks on the building	Building as a city
Building as a city	Isolated from outside	
Encourage people to meet and give them the freedom to make the building their own	Lack of natural light in heart of the building	
		Hierarchy
		Light Spatiality / scaling

1

Introduction

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Value assesment

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Conclusion

Program

Surrounding



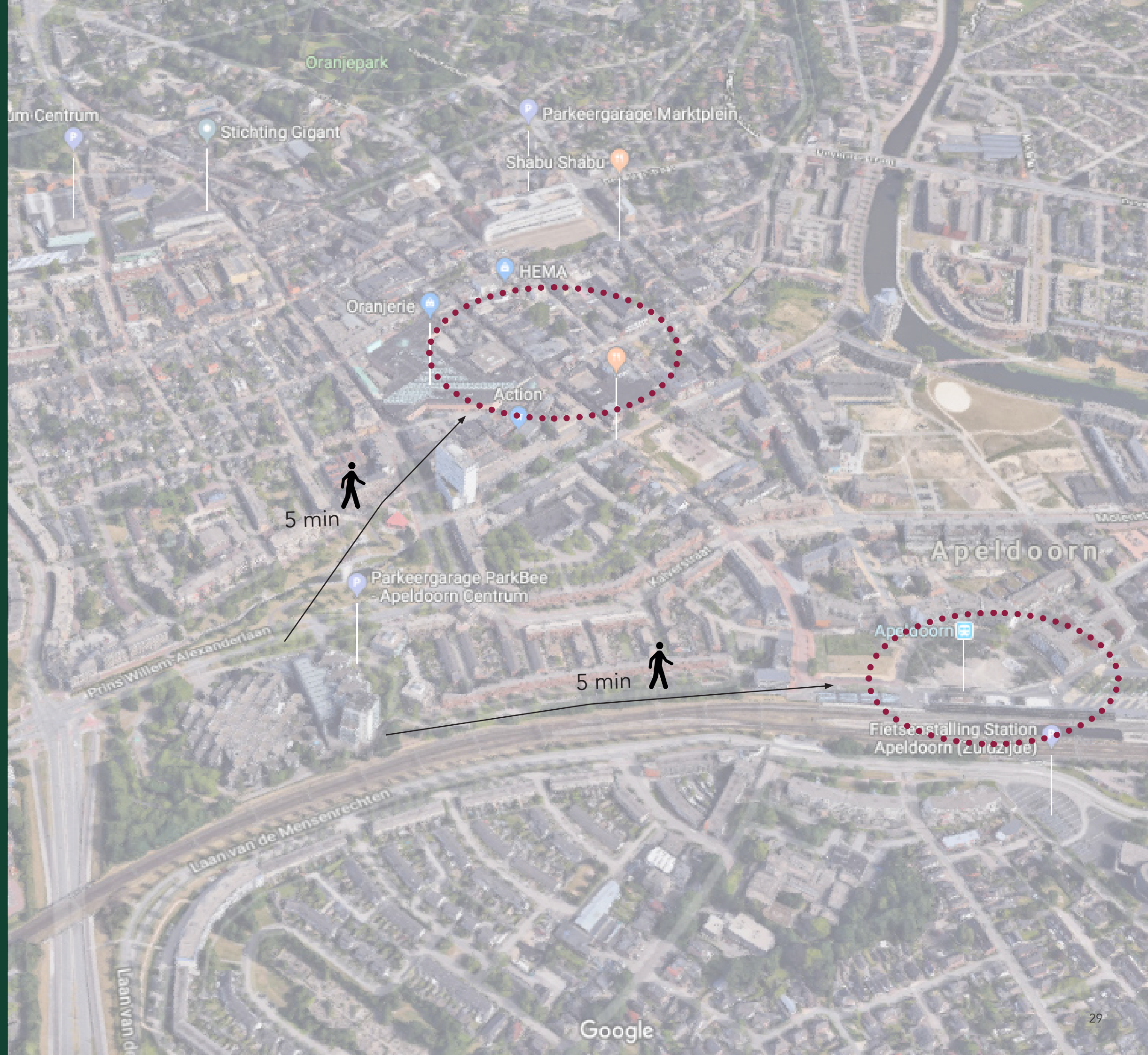
Program

Surrounding

Close to city centre

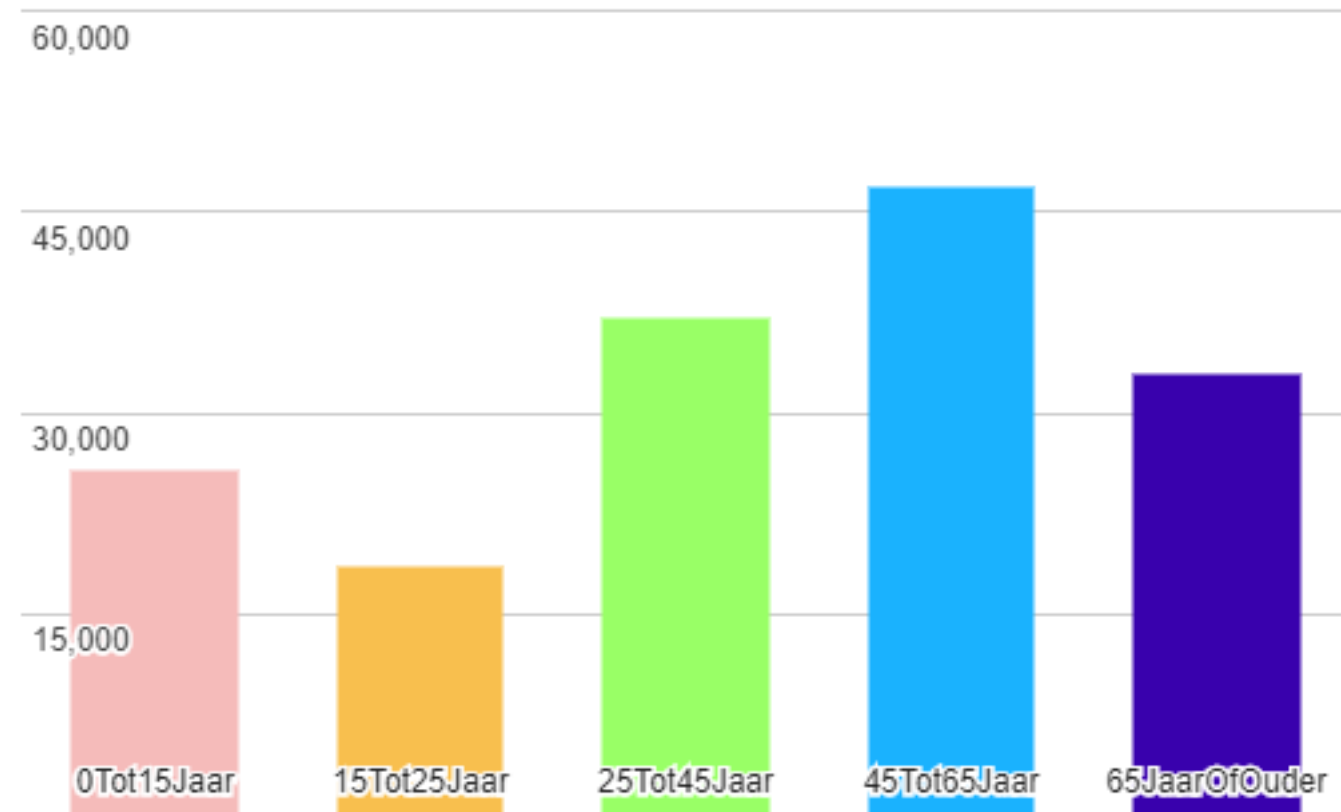
National connected

Large building site



Program

Inhabitants of
Apeldoorn by age



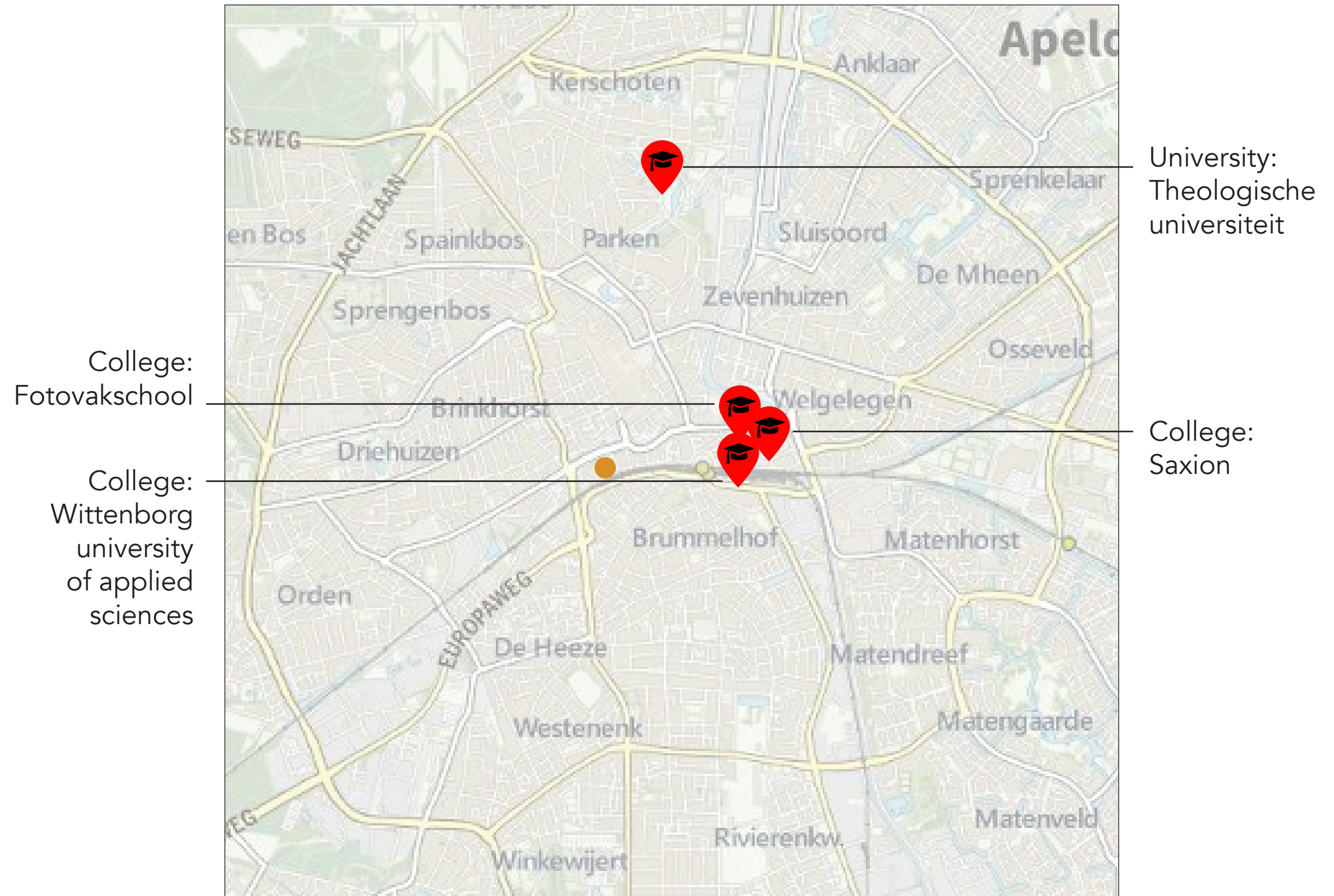
Bevolking, leeftijdsgroepen: aantal en percentage inwoners op 1 januari 2018 per leeftijdscategorie.

Program

Education in the
surrounding

1 university

3 colleges



Program

Culture in surrounding

Stichting Gigant



Theater
orpheus

CODA
Apeldoorn

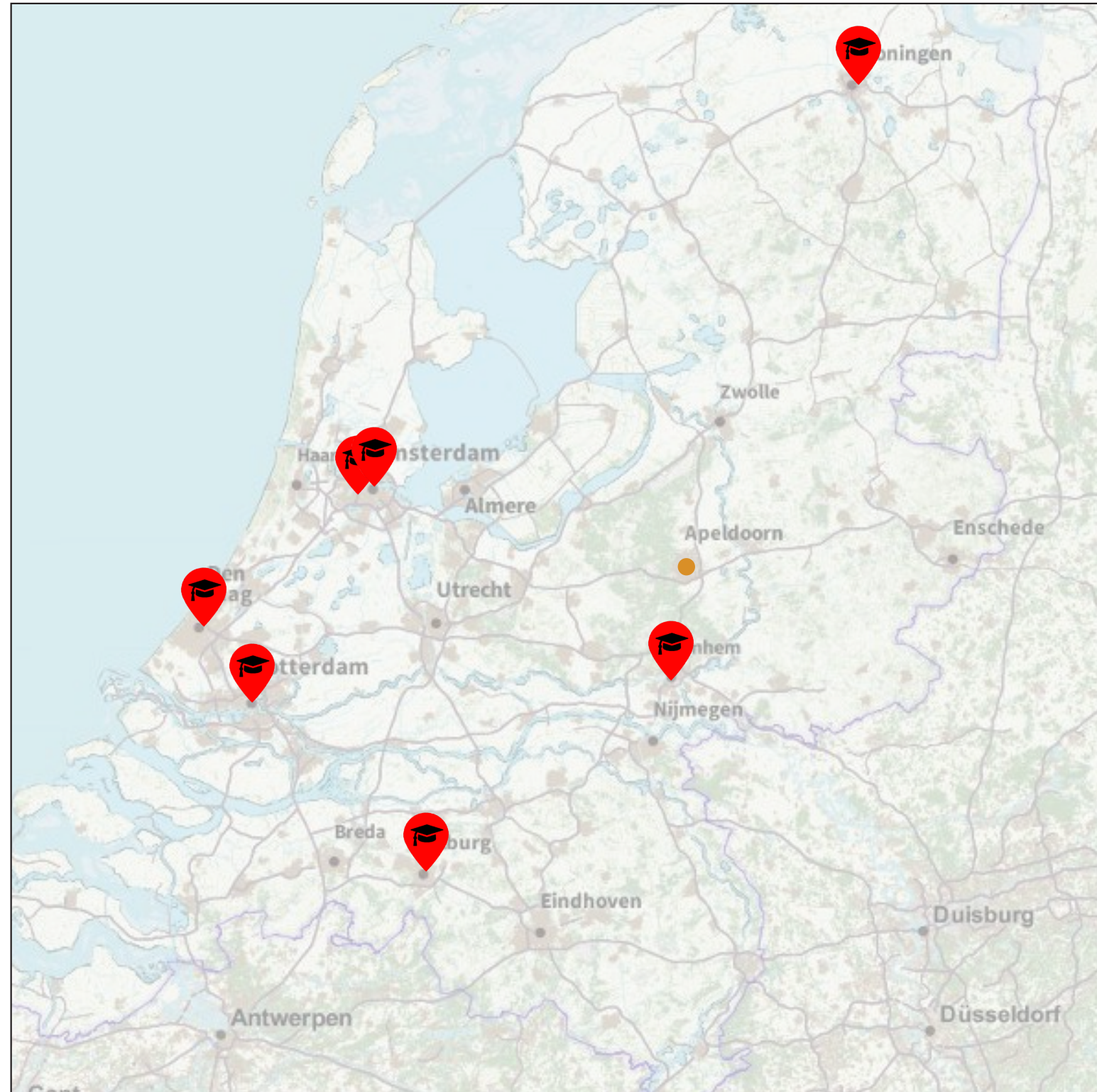
Program

Art academies



Program

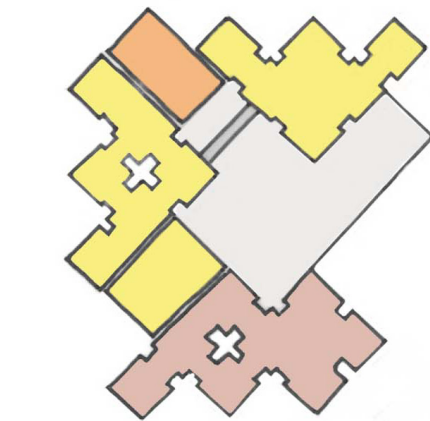
Dance academies



Program

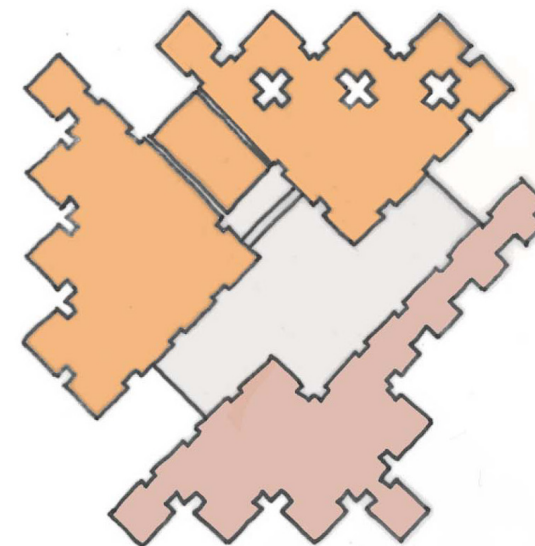
Functions

- Street
- Dance department
- Art department
- Education / offices
- Technical area
- Restaurant / Canteen



Master art education

Layer 4



Dance academy

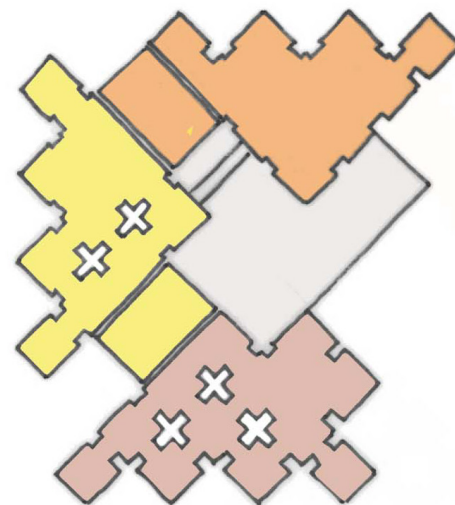
Visual arts

Layer 2



Layer 0

Academy Dance education



Art, communication and design

Layer 3



Layer 1

1

Introduction

2

Value assesment

3

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Design

Building as a city
Hierarchy
Light

5

Conclusion

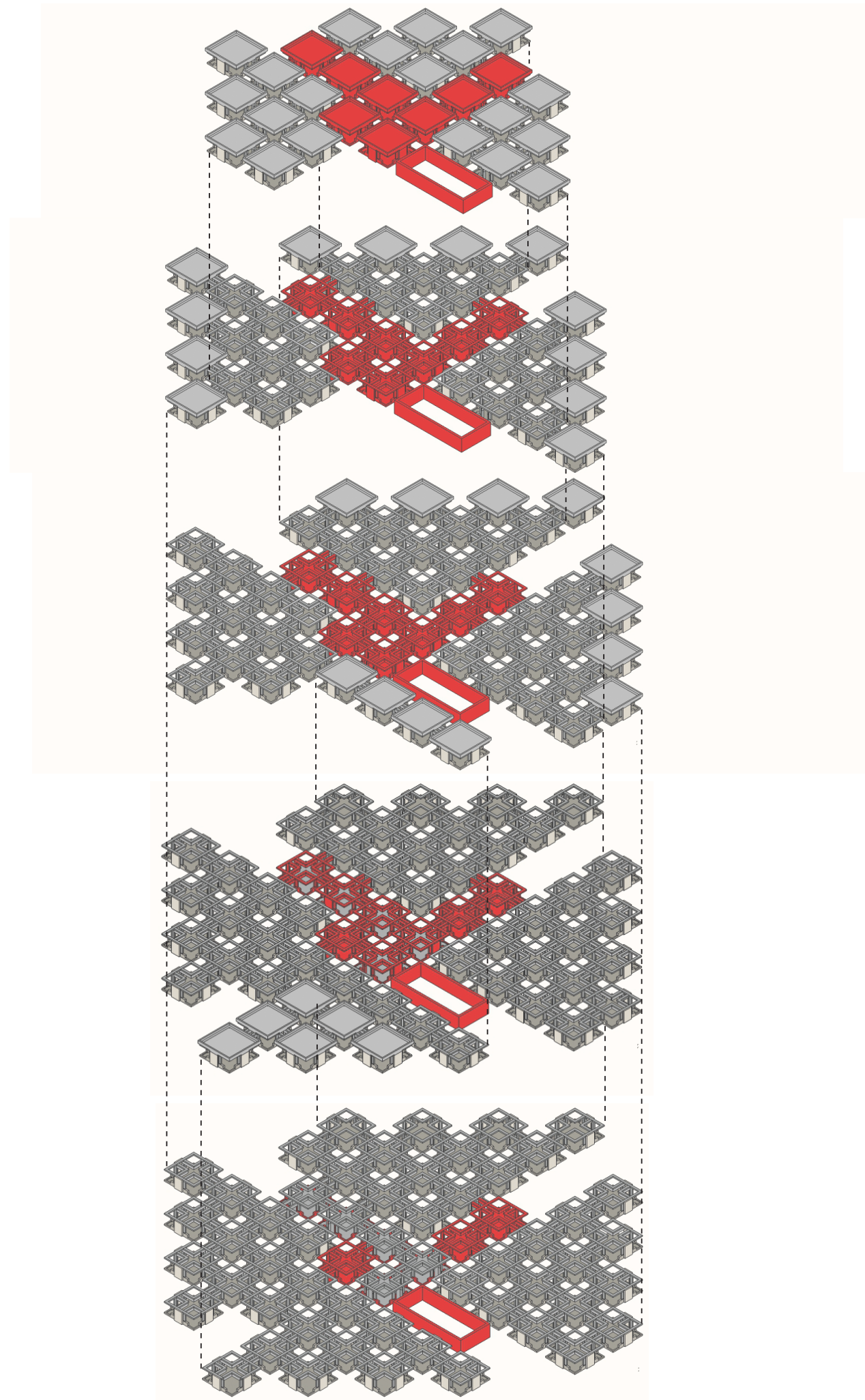
Design

Overview
value assesment

Positive qualities	Problems	
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		Light Spatiality / scaling

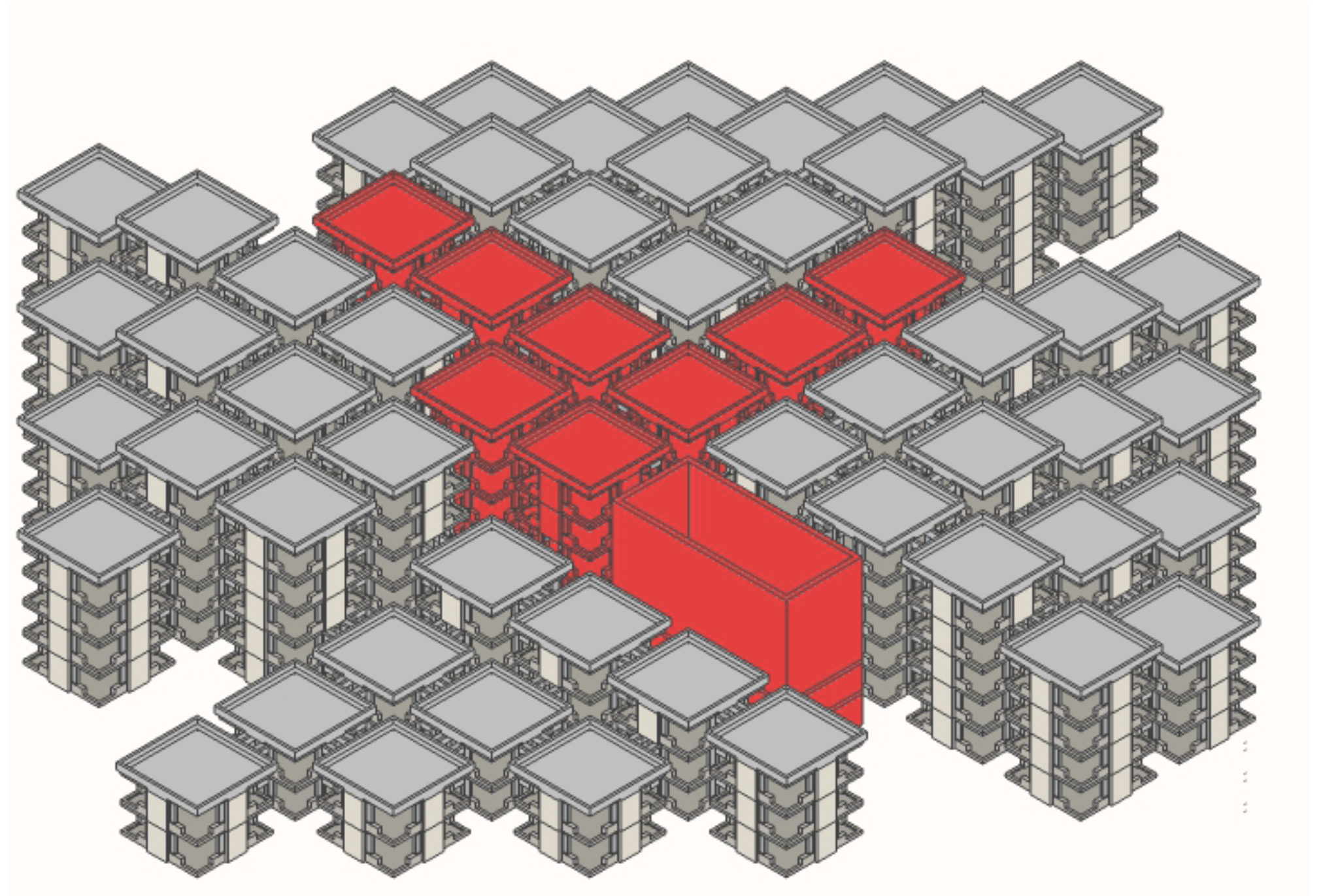
Design

Demolition plan



Design

Demolition plan



Design

“Aan het eind van de jaren tachtig kreeg het structuralisme in Nederland enkele krachtige impulsen. Herman Hertzberger werd uitgenodigd om deel te nemen aan belangrijke buitenlandse prijsvragen.”

Gemäldegalerie, Berlijn 1986
Bibliothèque de France 1989

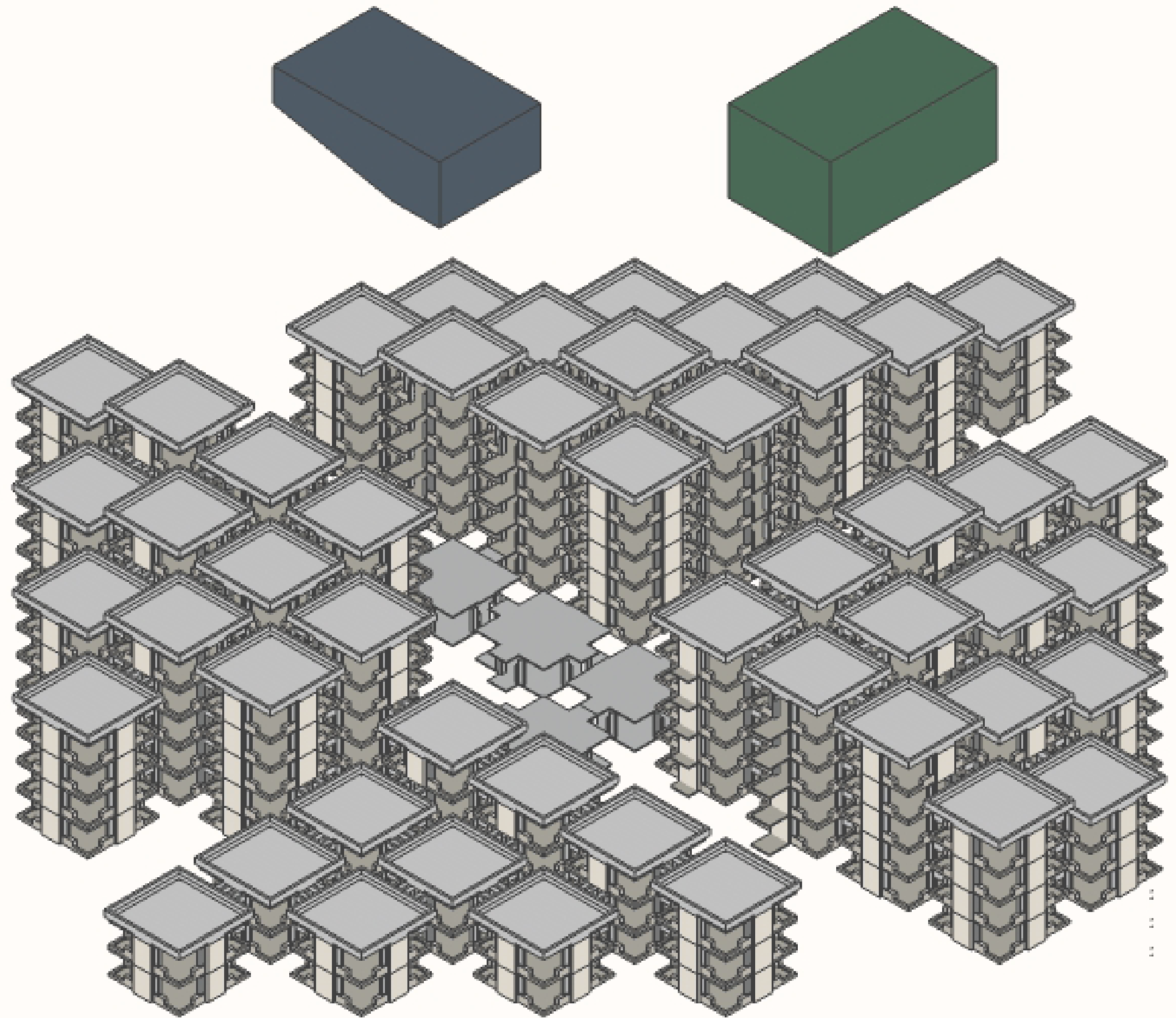
“In beide ontwerpen ontstonden zeer grote binnenruimtes, een nieuw element binnen de Nederlandse structuralism.”

Book: structuralism by A.J. van Heuvel

Design

Transformation
strategie

Freedom for own
interpretation in
the street and
preservation of the
signature of Herman
Hertzberger in the
quadrants.



Design

Existing situation



Design

New situation



Design

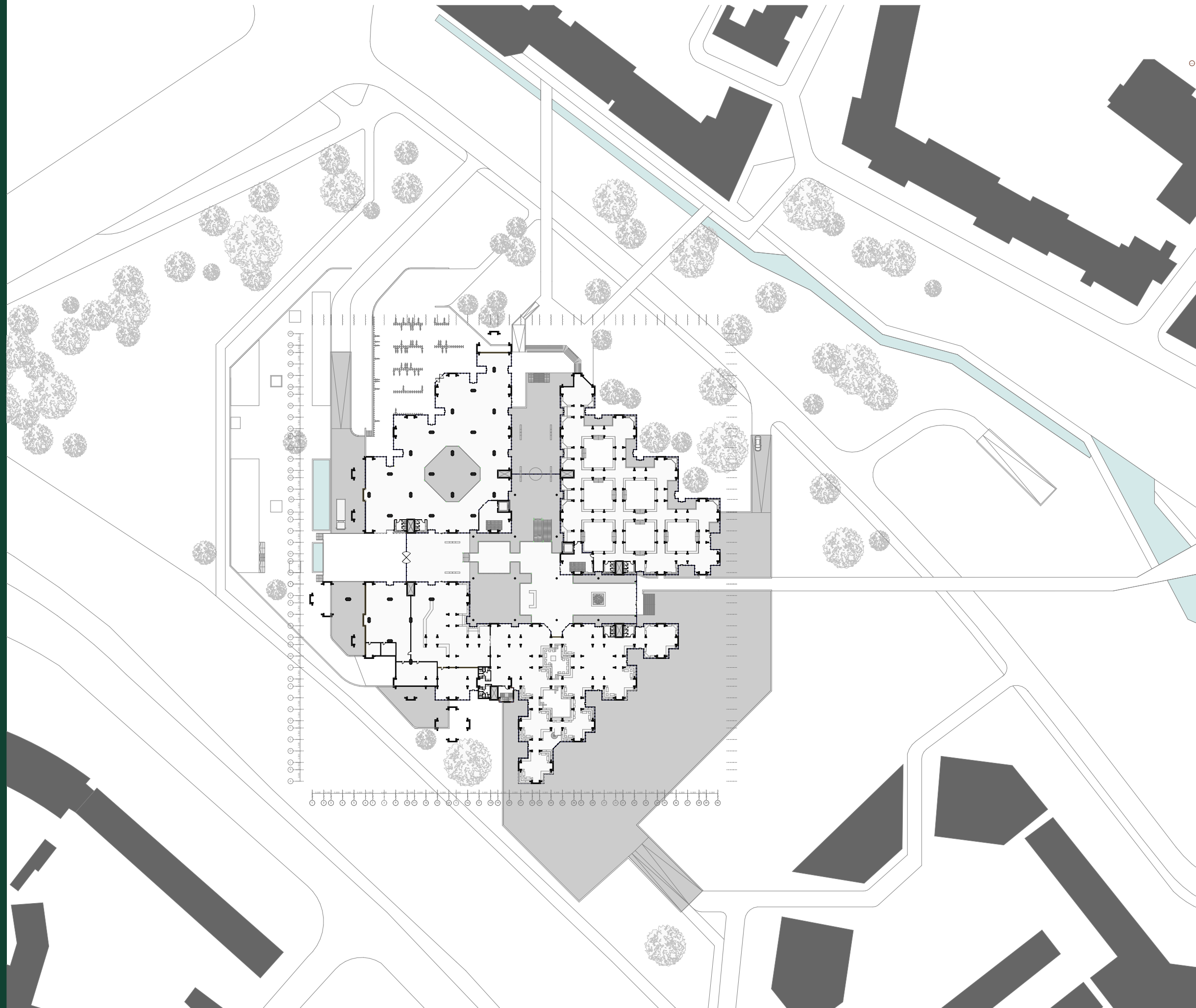
New situation

Closing of residential
area

Create new park for
the neighbourhood

Move parking

Create cultural park



Design

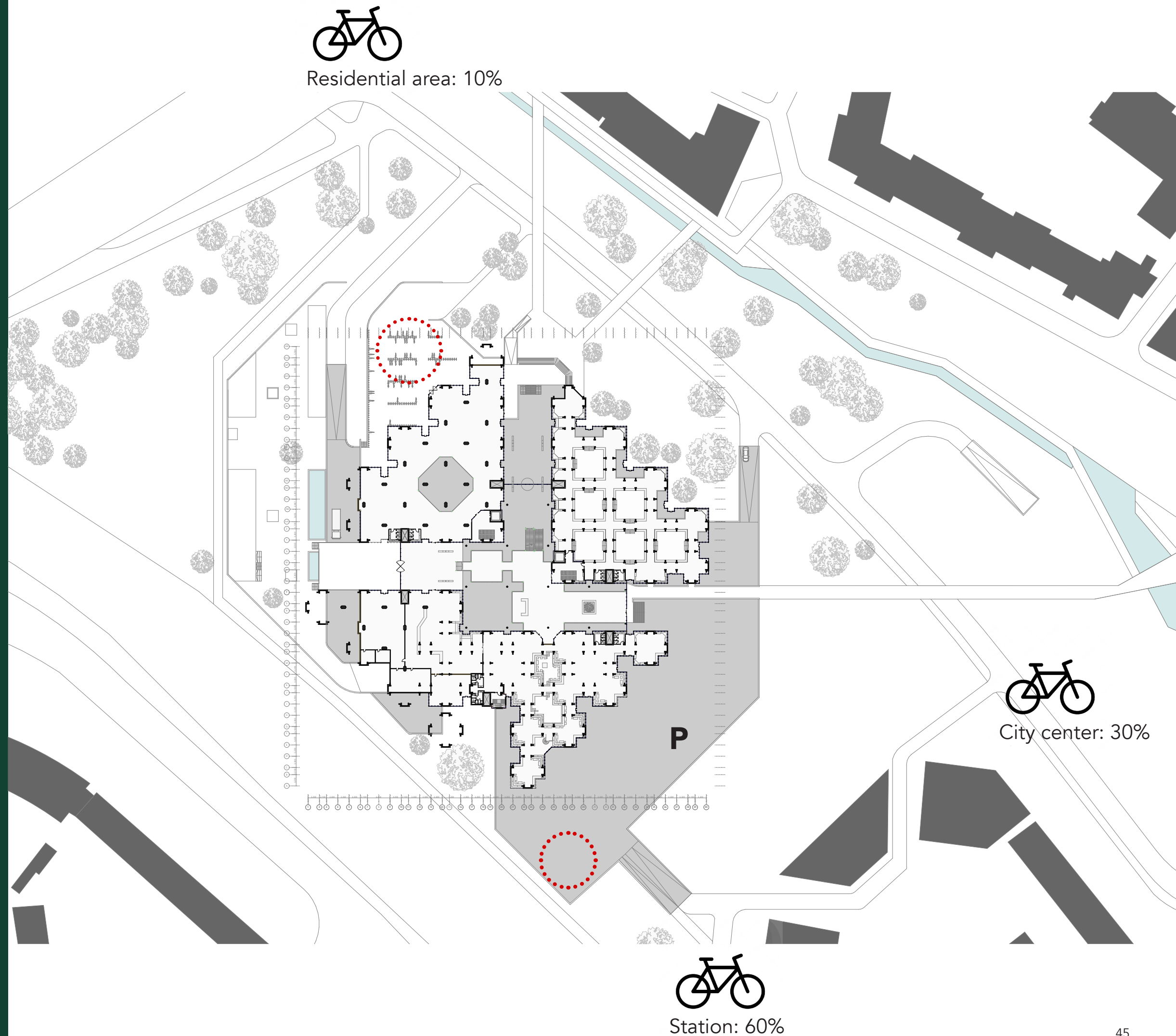
New situation

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Create new park for the neighbourhood

Move parking

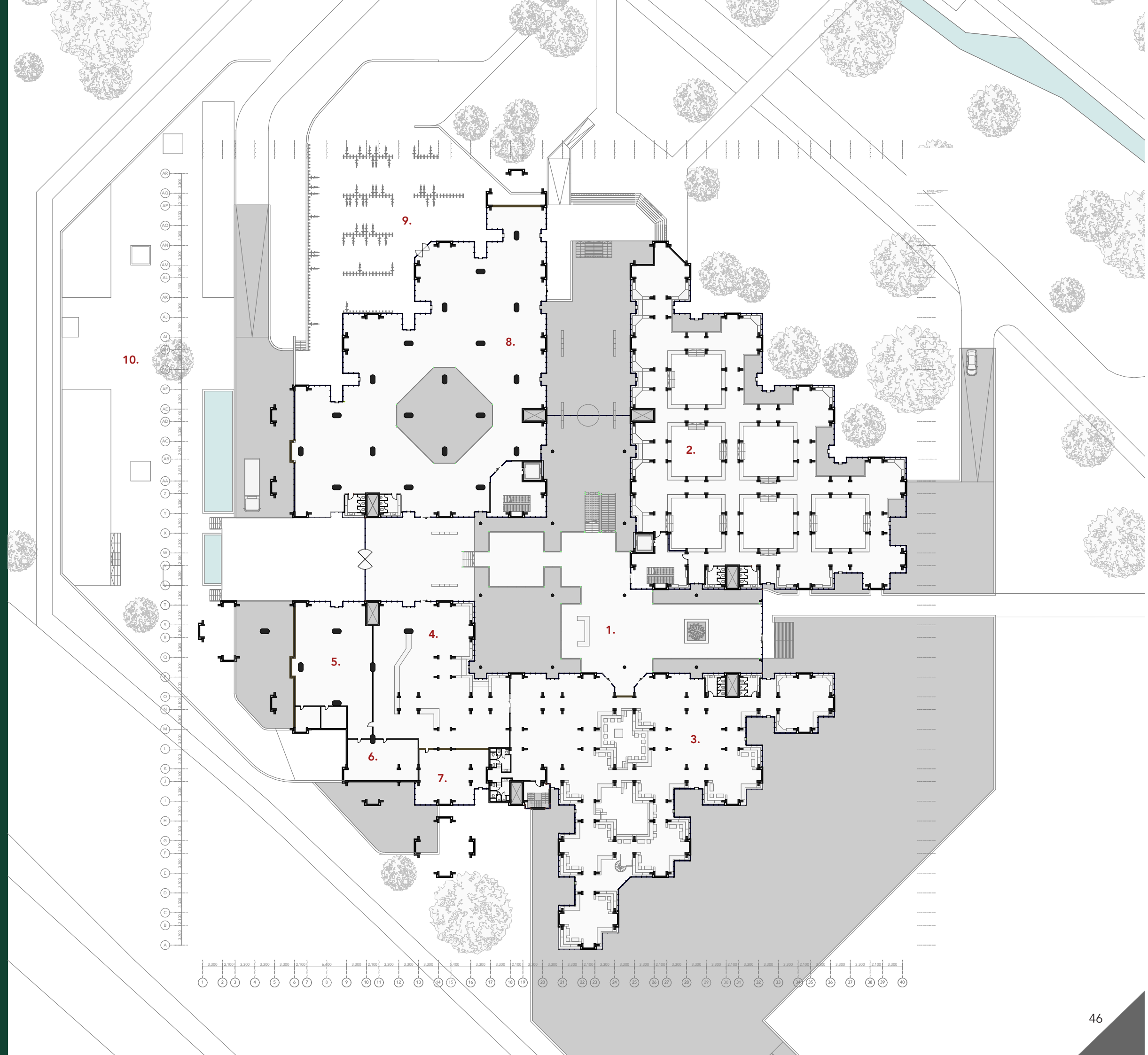
Create cultural park



Design

1e floor

- 1: Street (reception)
- 2: Study area
- 3: Restaurant
- 4: Canteen
- 5: Kitchen
- 6: Washing-up kitchen
- 7: technical room
- 8: Exposition space
- 9: Becyle parking
- 10: Cultural park



Design

North-west facade



Design

North-west facade



Design

North-west facade

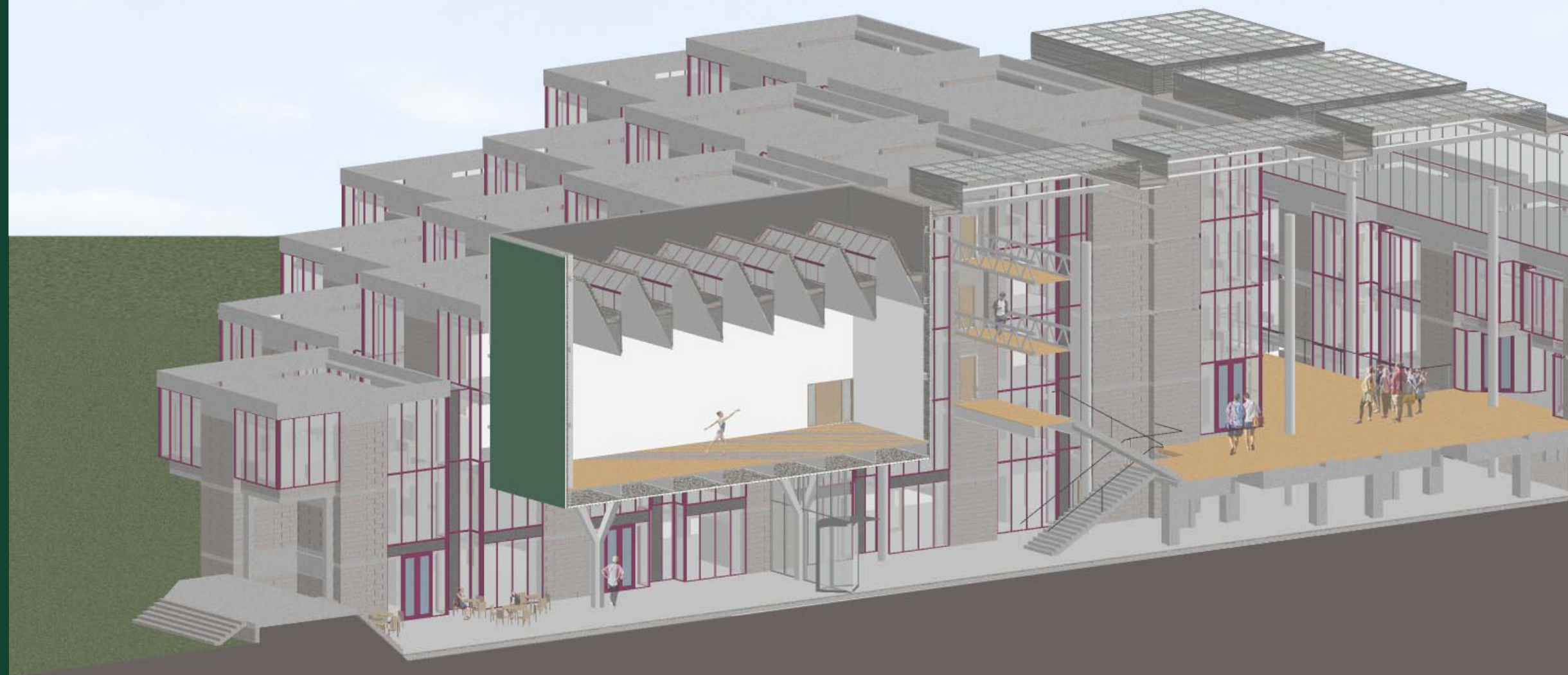
- Clear entrance



Design

Building as a city

Transition from inside
to outside

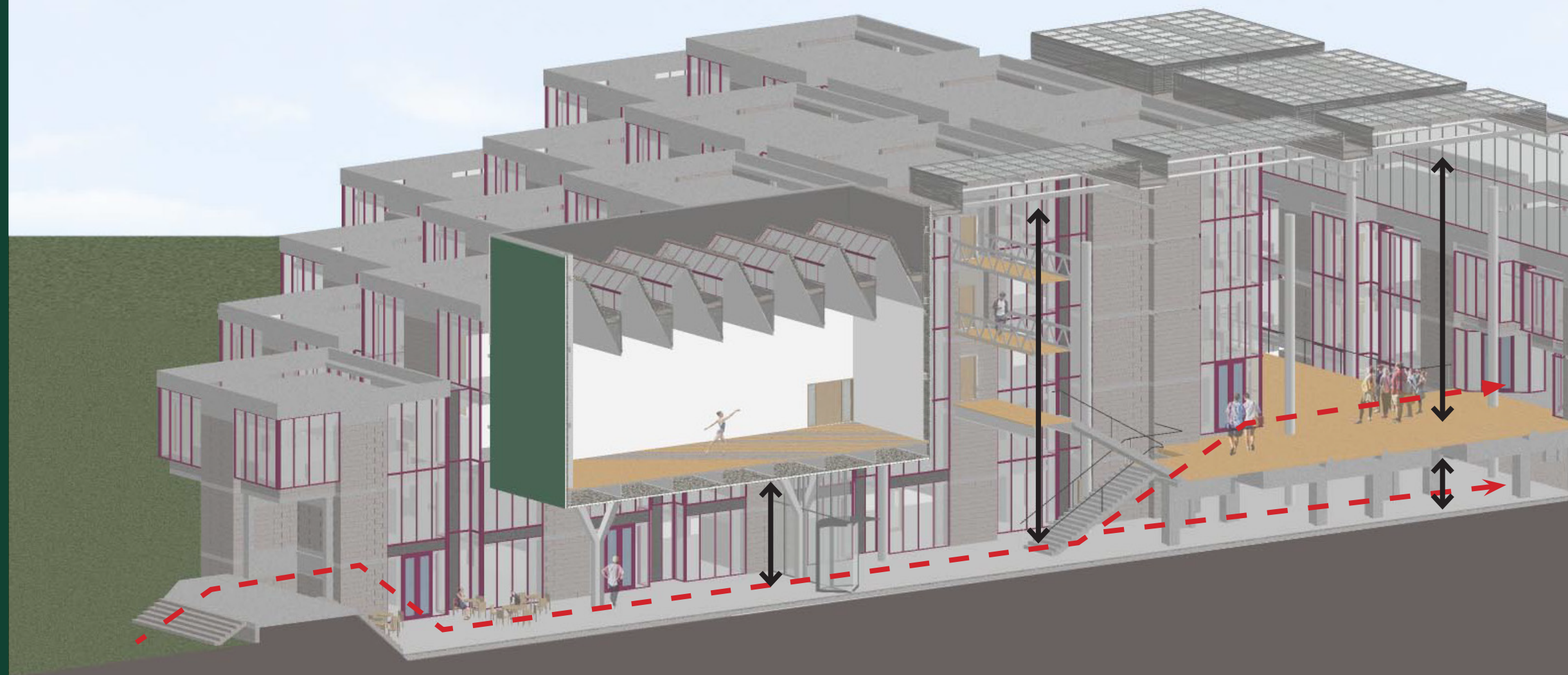


Design

Building as a city

Transition from inside
to outside

Sequence of spaces



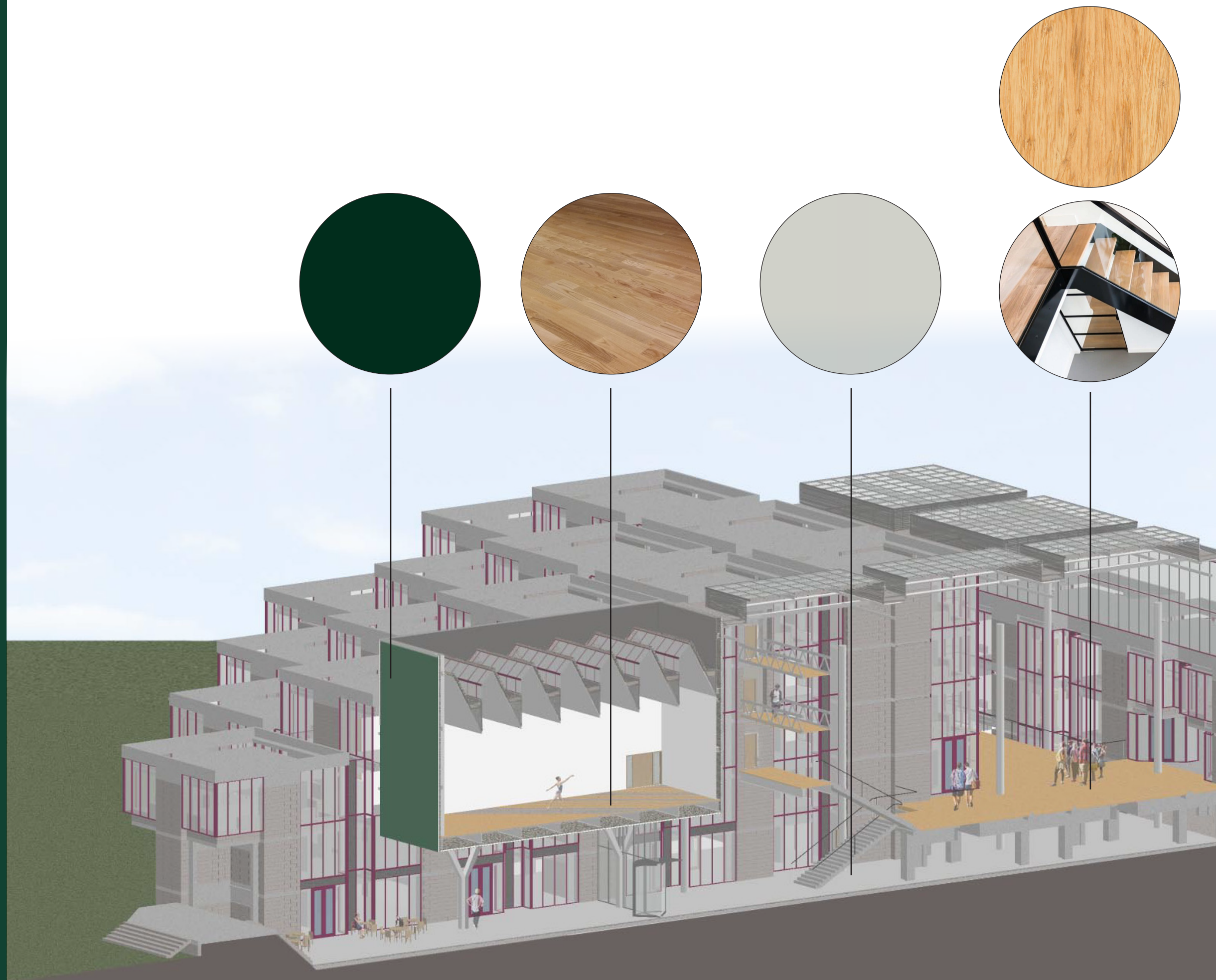
Design

Building as a city

Transition from inside
to outside

Sequence of spaces

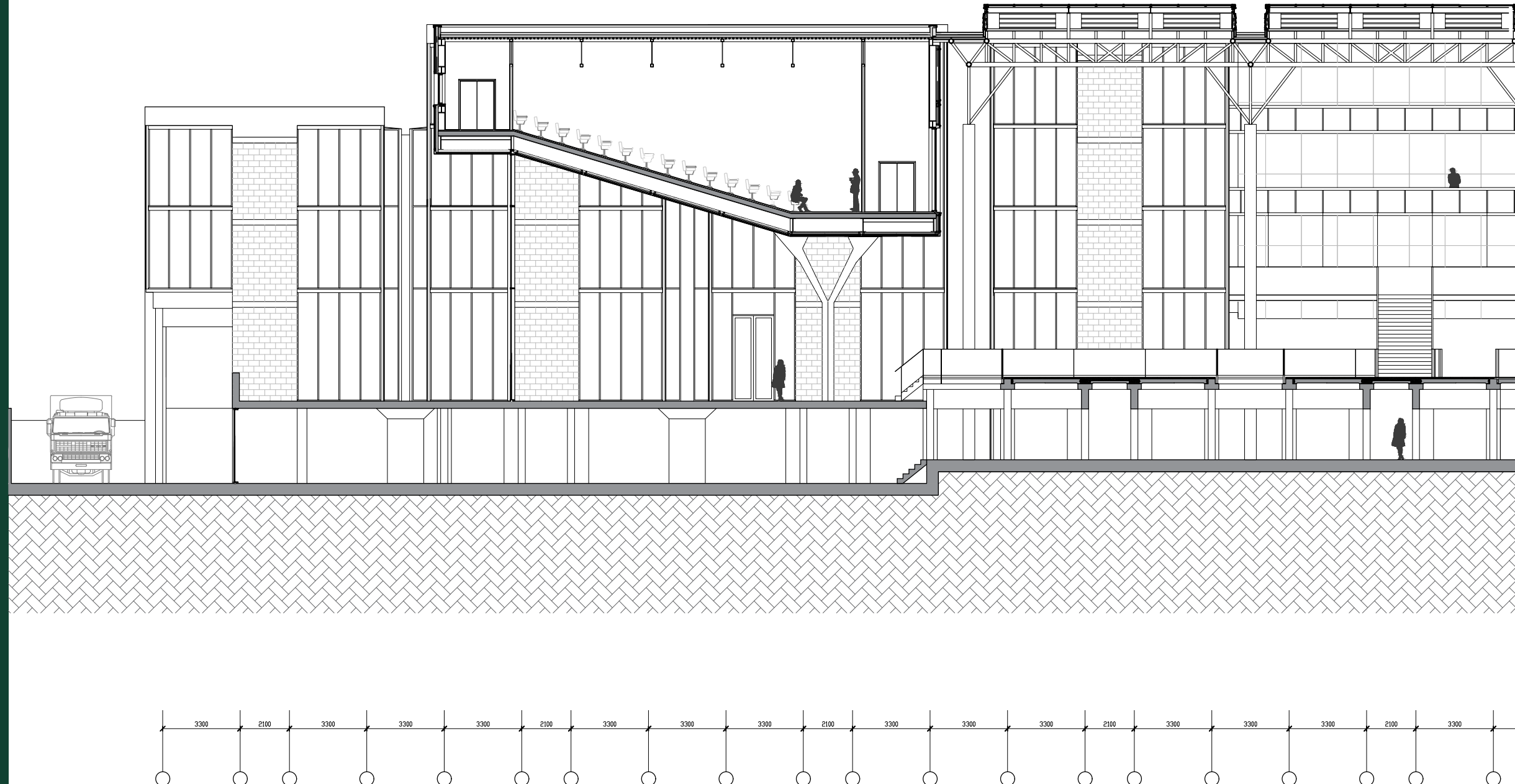
Warm and elegant
materials for additions
in street against the
raw and cold material
of the existing.



Design

Building in a city

Opens up towards the
cultural park



Design

Building in a city

Opens up towards the
cultural park



Design

Building as a city

Improvement of the street

No difference in material in office and street.



Design

Building as a city

Street:
Creating a real active
street that is in
connection with the
surrounding



Design

Building as a city

Street:

Creating a real active street that is in connection with the surrounding.

Entrance:

Walking towards the light while standing. Make clear that you entering the building without interrupting the material use



Design

Hierarchy

No visual connection towards the active street in the heart of the building.

While in the whole building you always have a good connection with the outside.

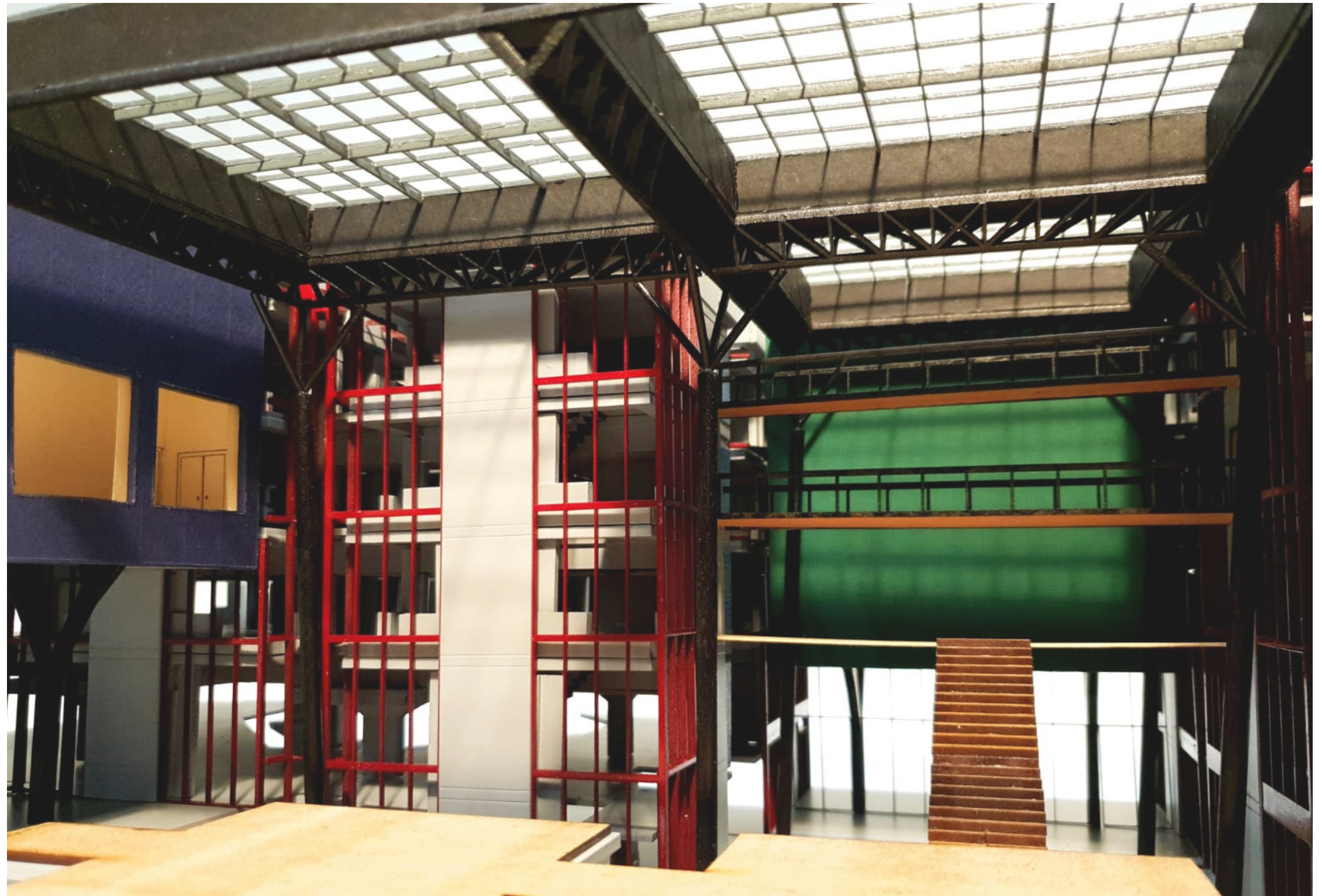


Design

Hierarchy

Large open space with light from above and good overview of the building.

Always view to the atrium for orientation.

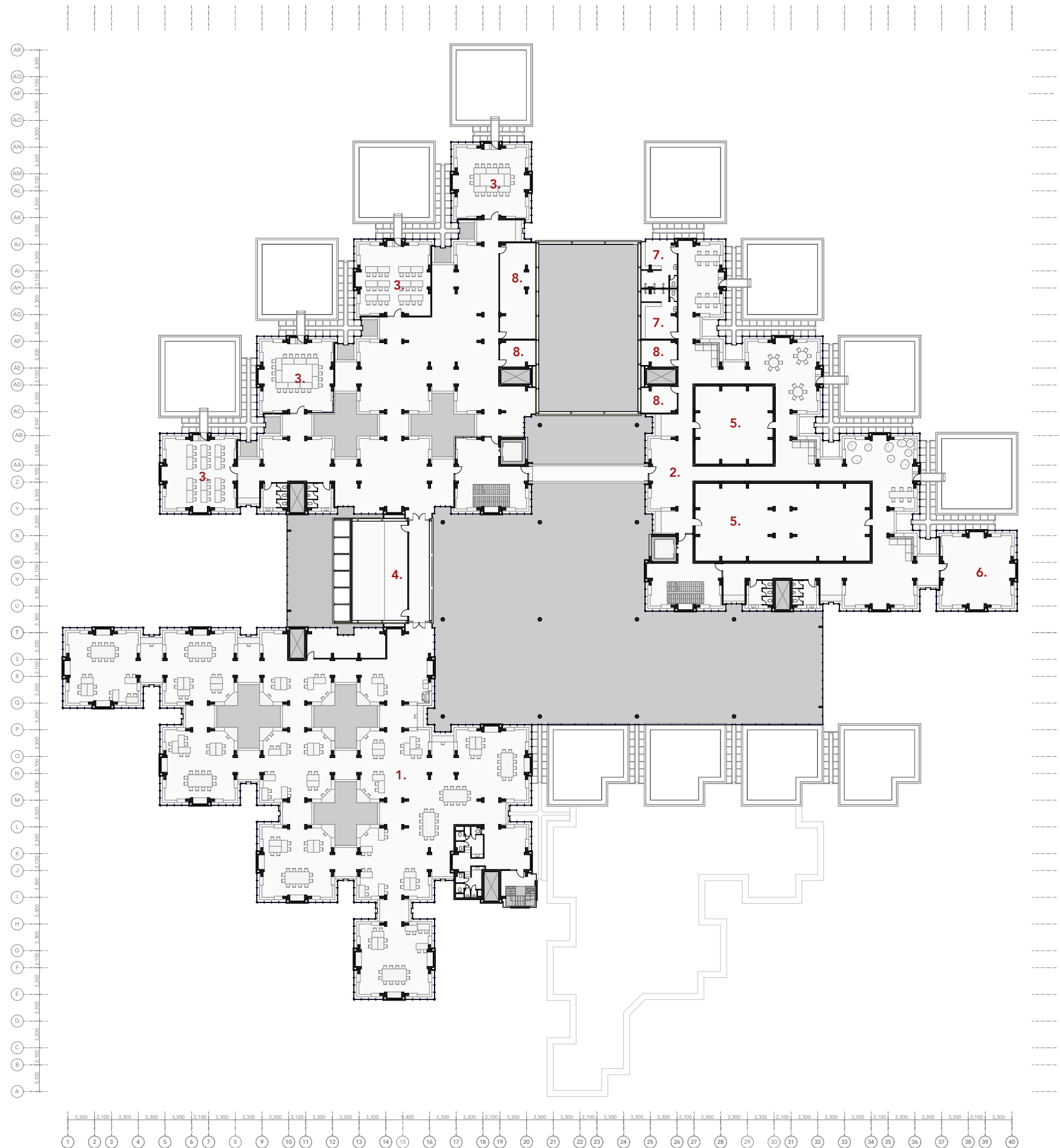


Design

Hierarchy

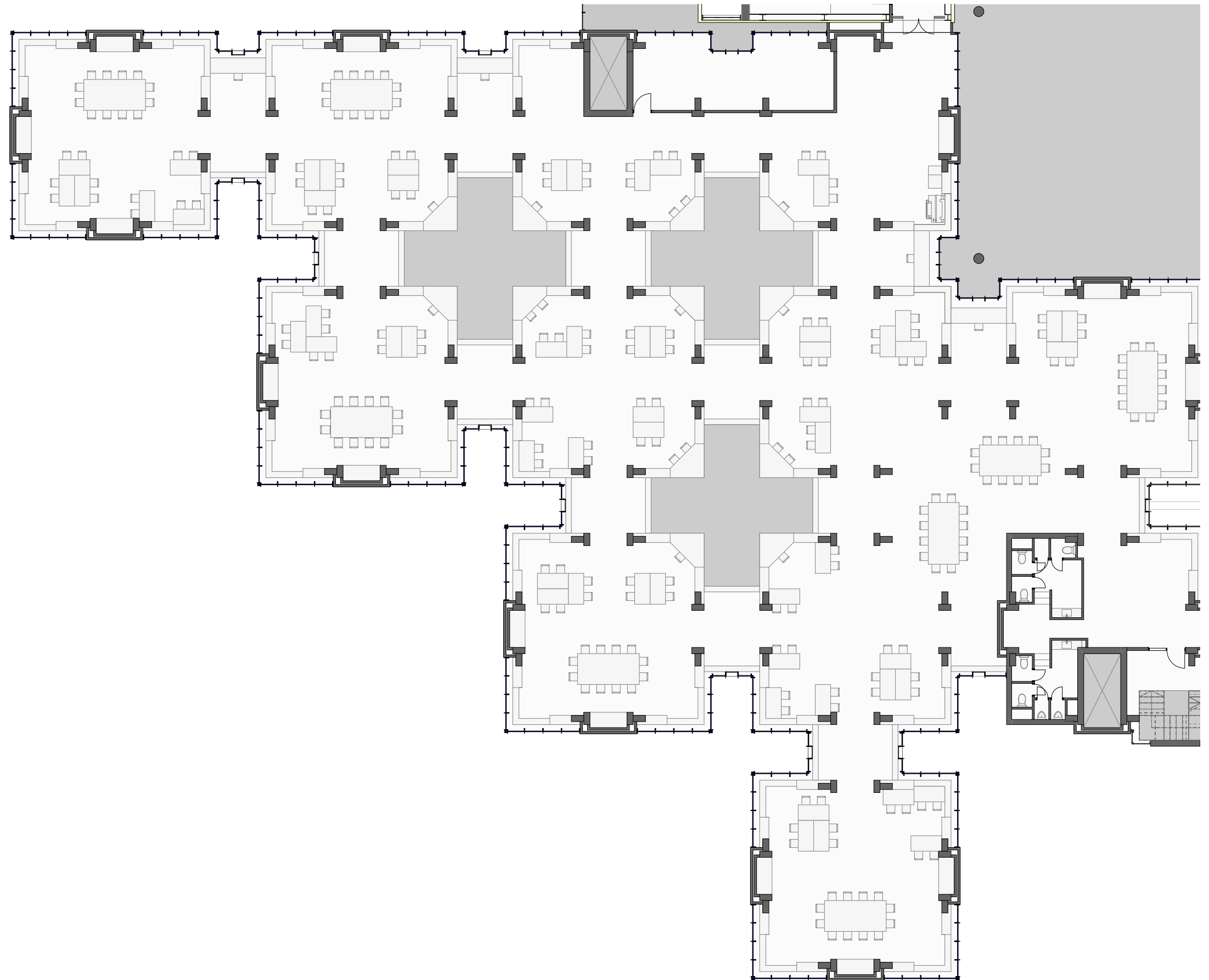
3e floor

- 1: Atelier:
Art, communication
and design
- 2: Academy
Dance education
- 3: Classroom
- 4: Lecture room
- 5: Dance studio
- 6: Multifunctional room
- 7: Dressing rooms
- 8: Storage



Design

Art department



Design

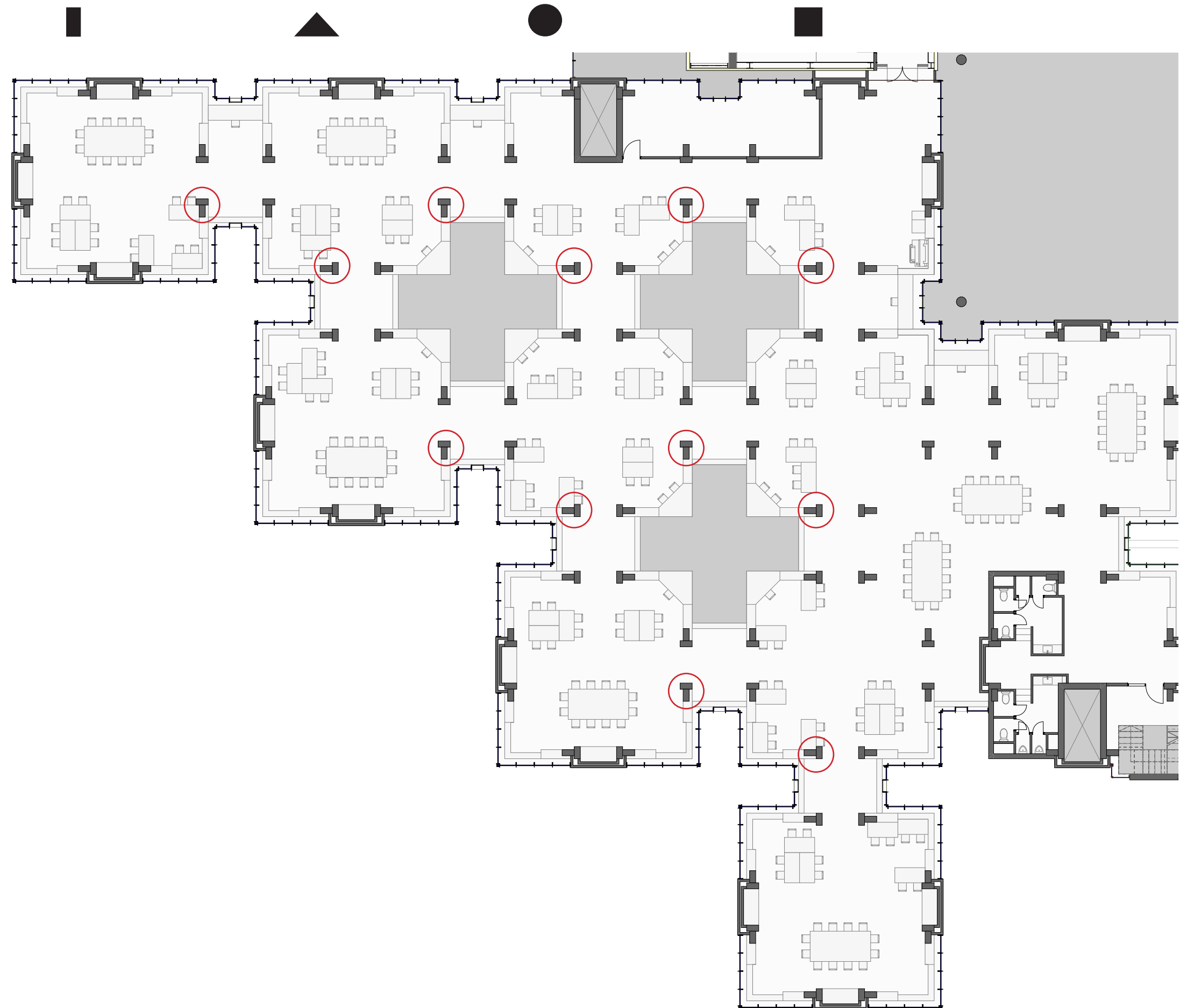
Art department

Wood

Metal

Fabric

Plastic



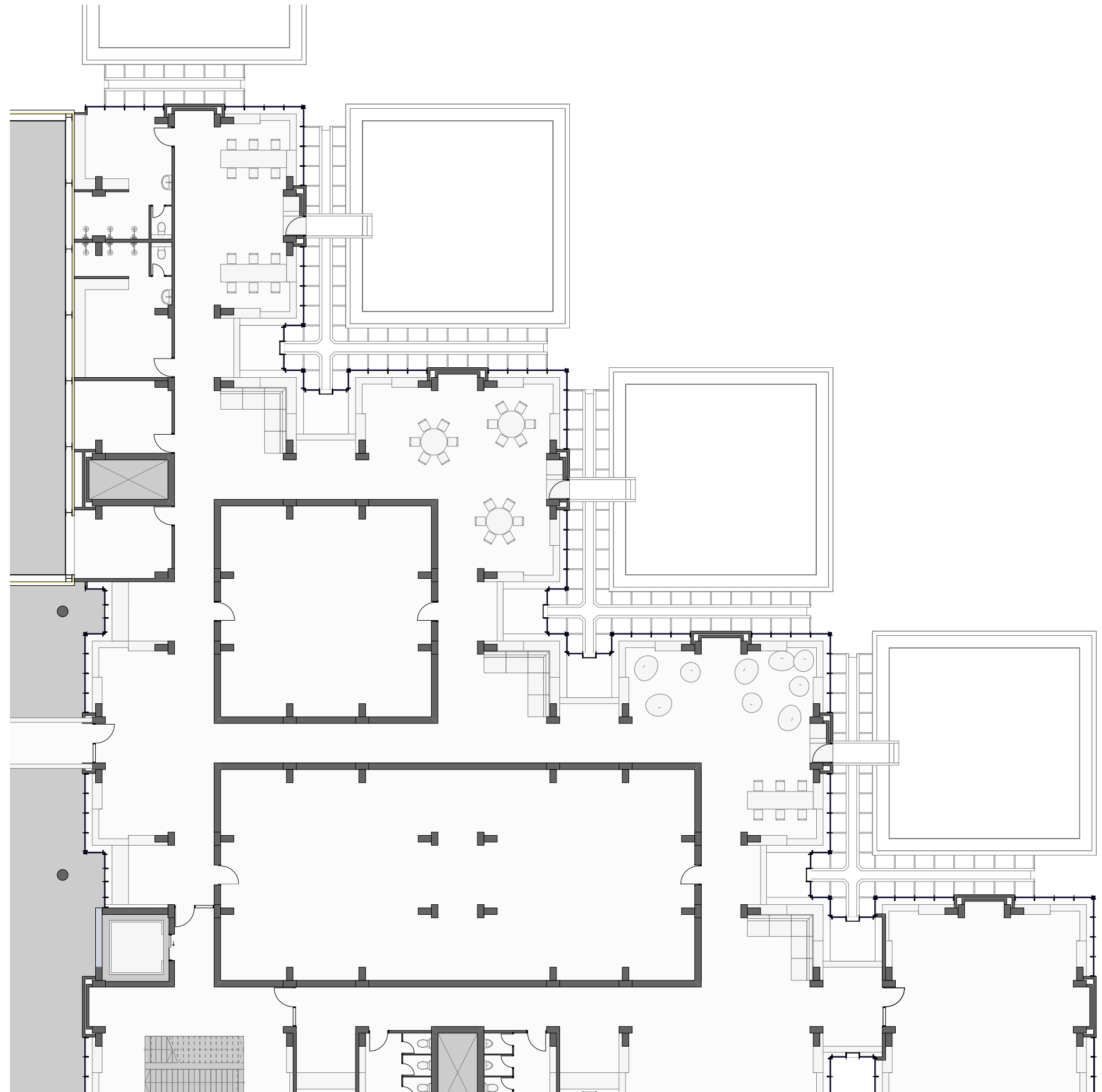
Design

Art department



Design

Art department



Design

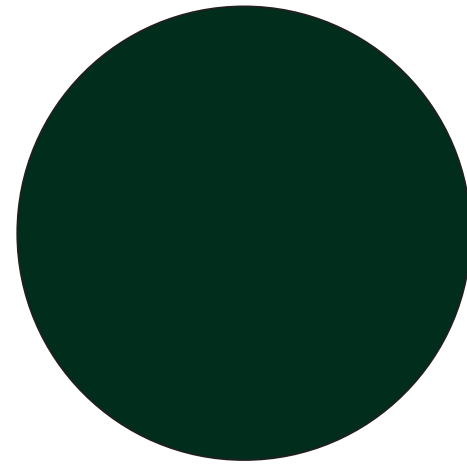
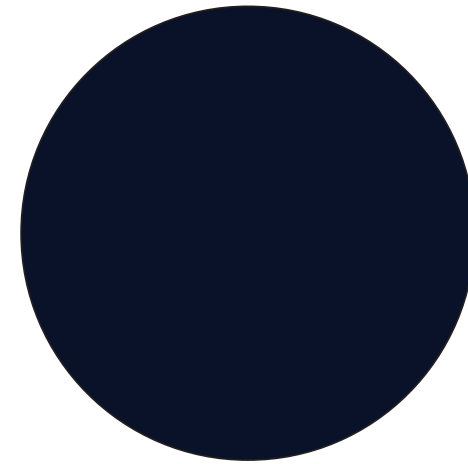
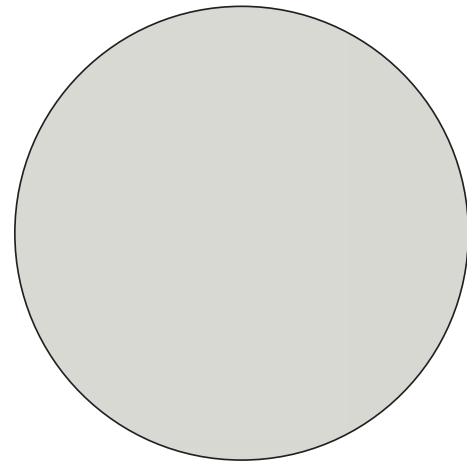
Dance academy



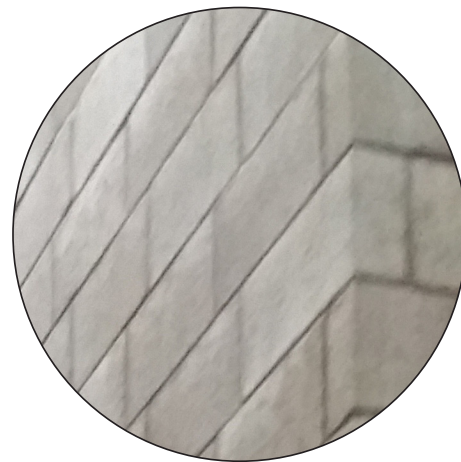
Design

Materialisation

New



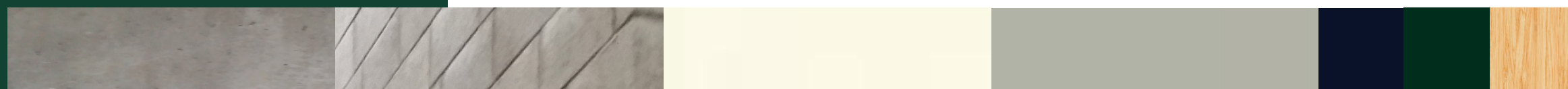
Existing



Street



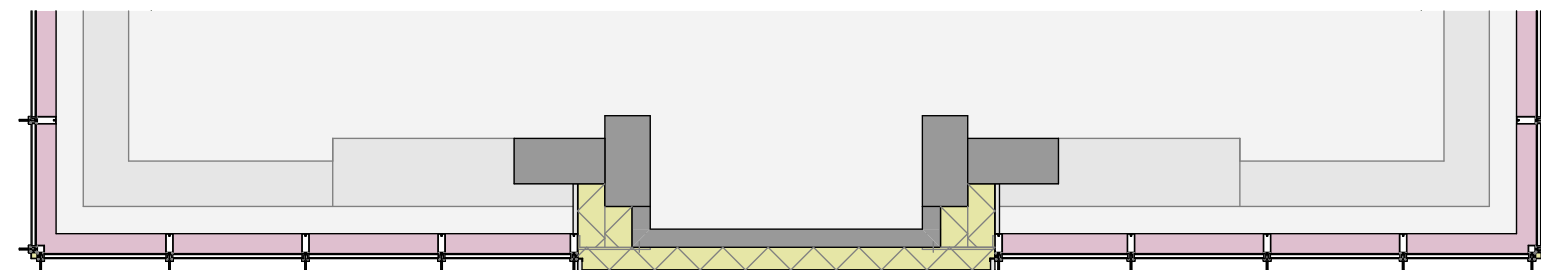
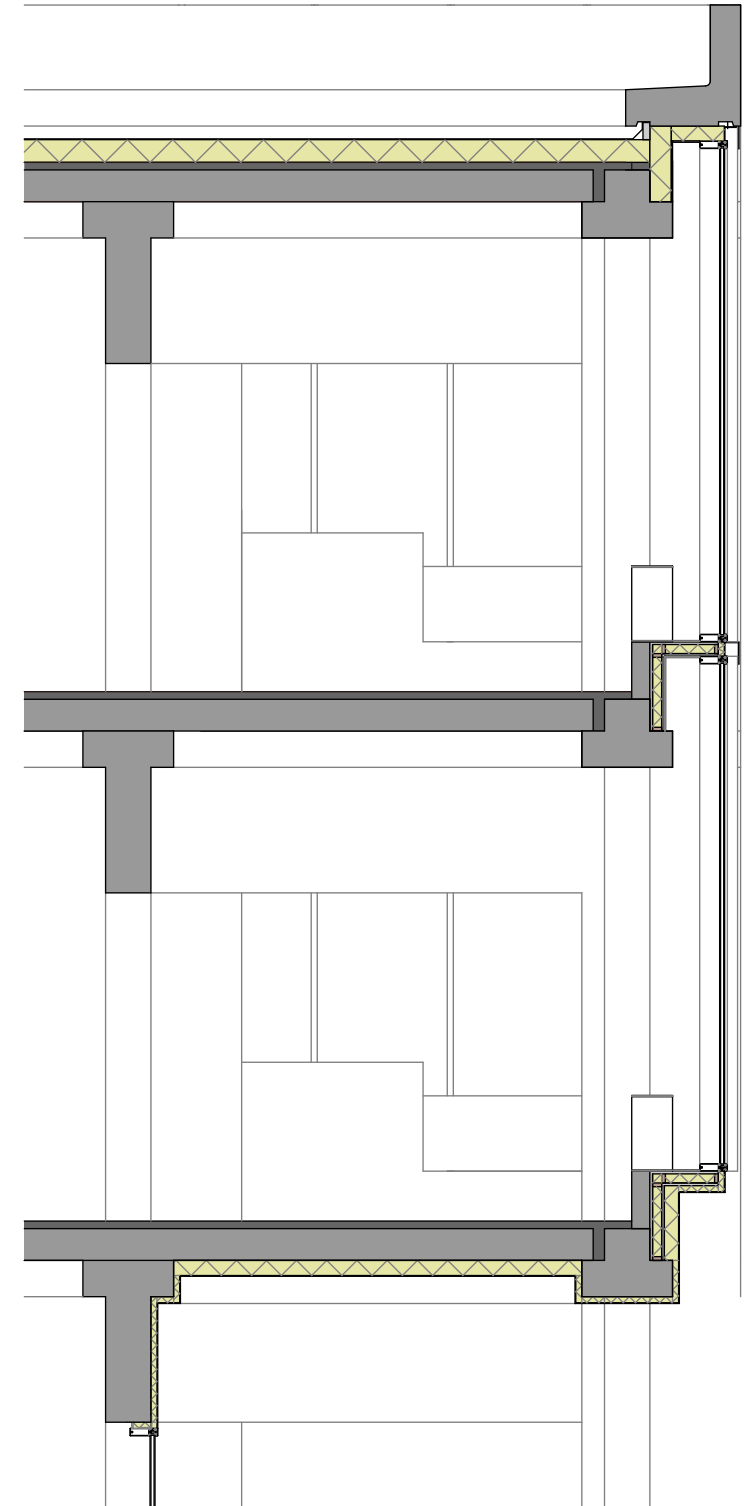
Quadrants



Design

Existing facade

Keep the composition
of the existing.



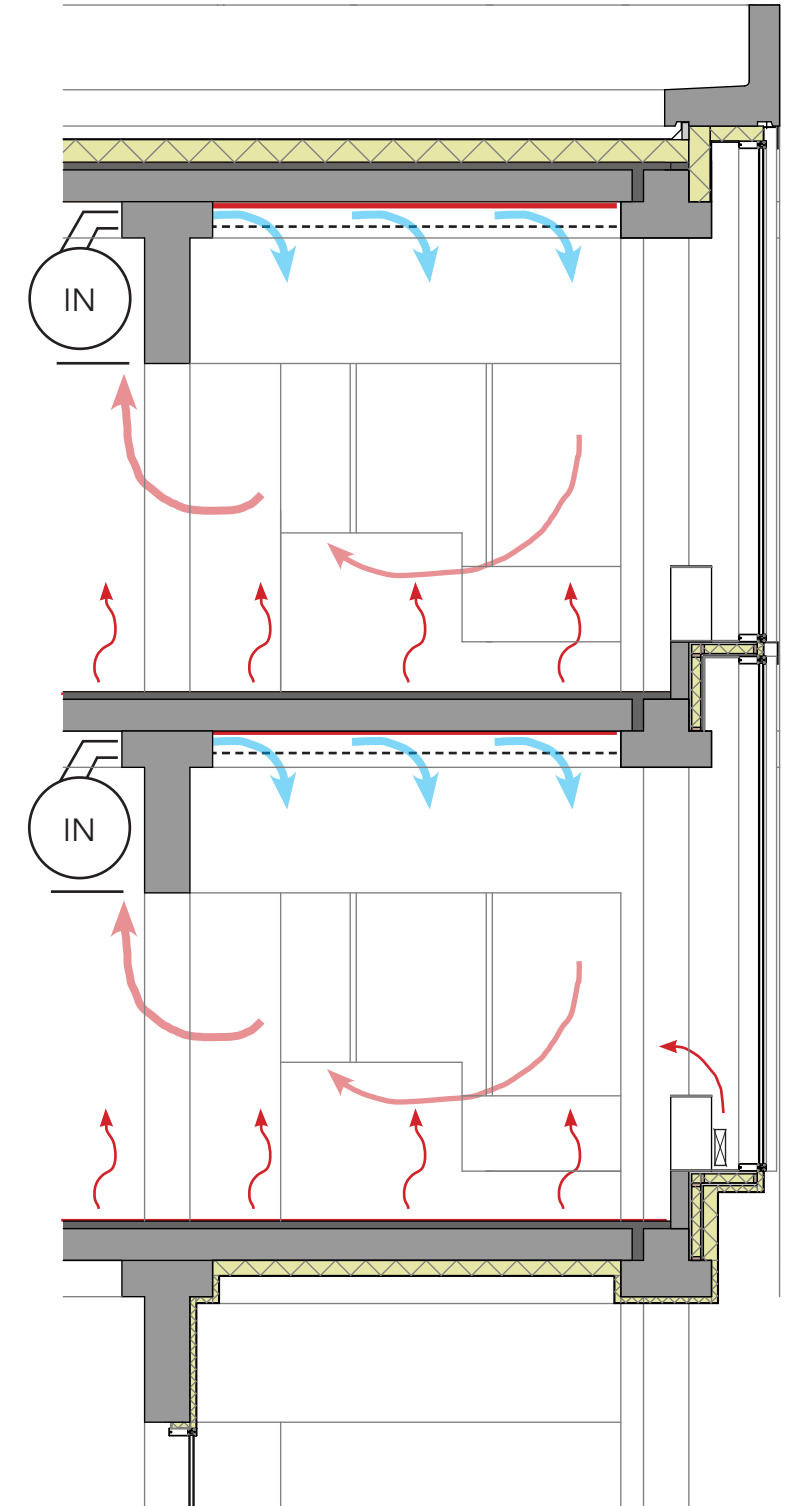
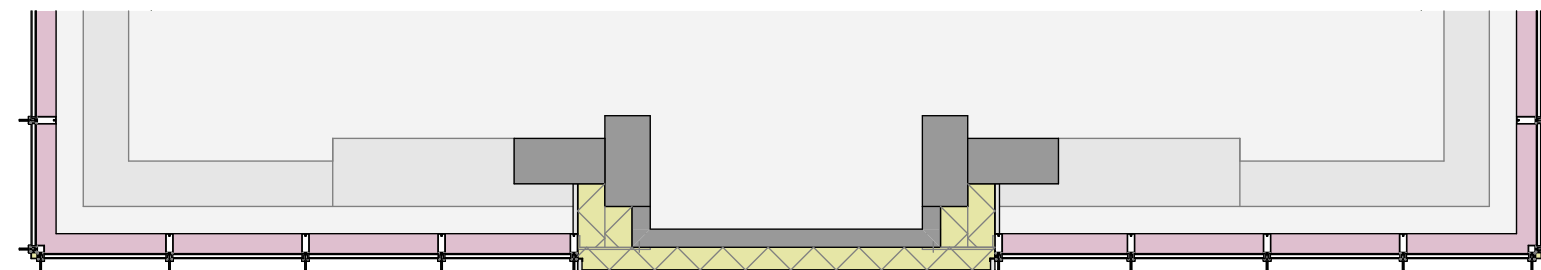
Design

Existing facade

Keep the composition of the existing.

Ventilation:
Blow in from the ceiling and suction in the lowered ceiling.

Heating:
Floor heating with convectors against the exterior facade.



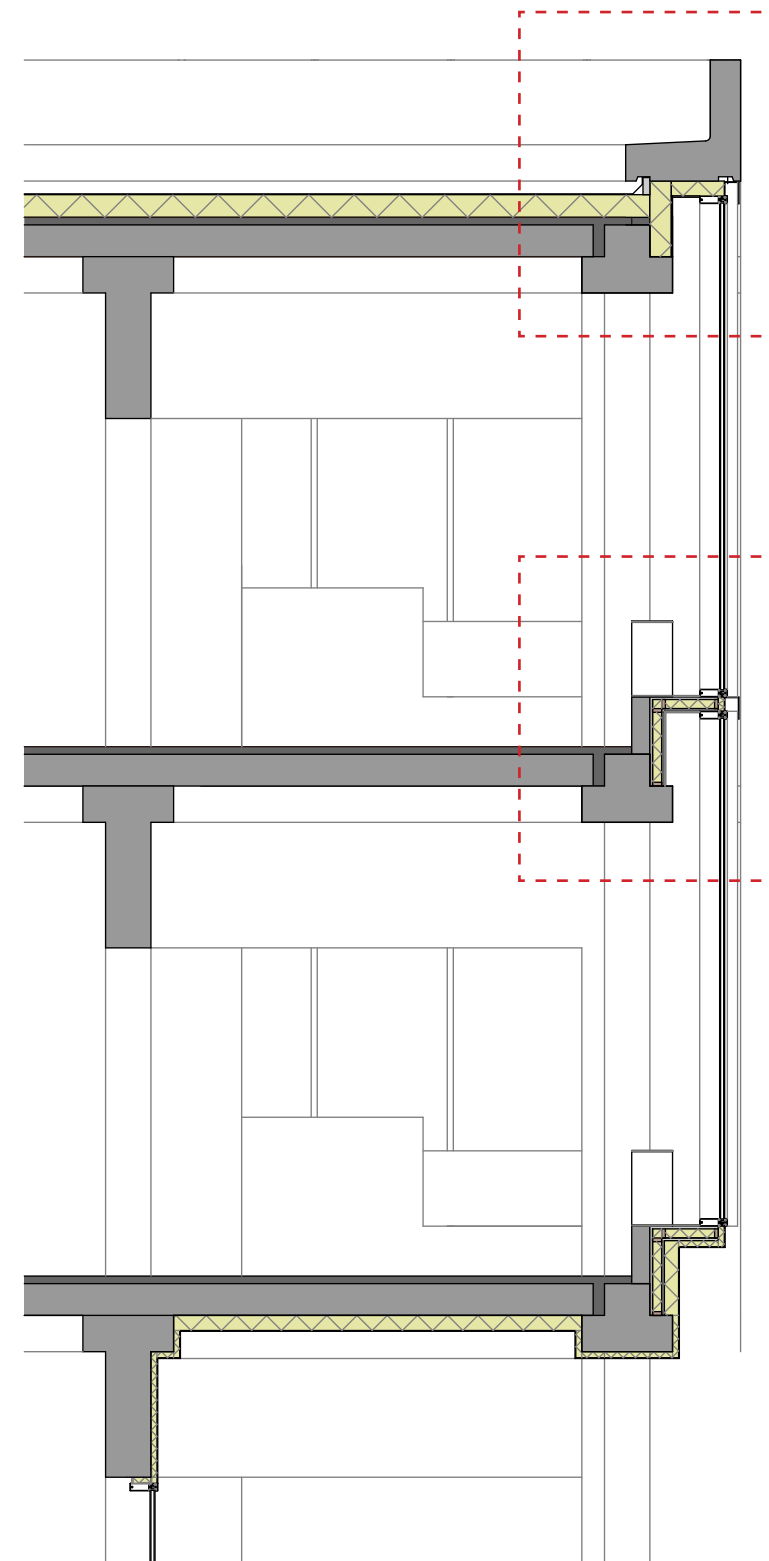
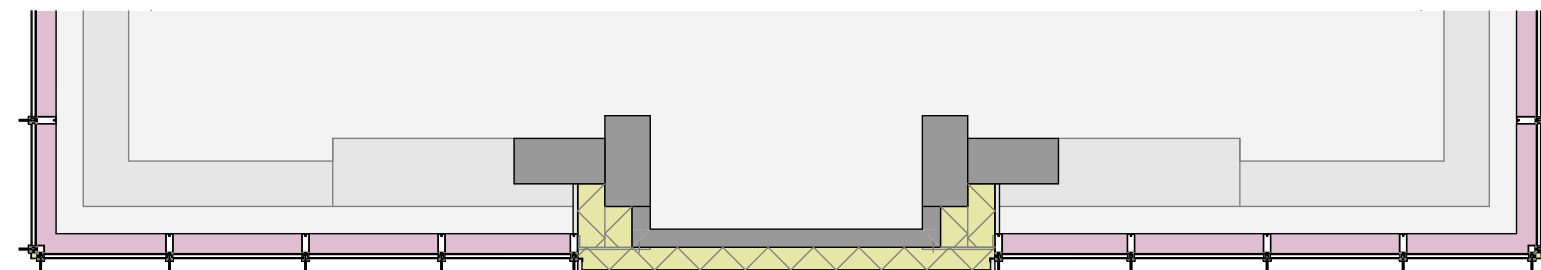
Design

Existing facade

Keep the composition of the existing.

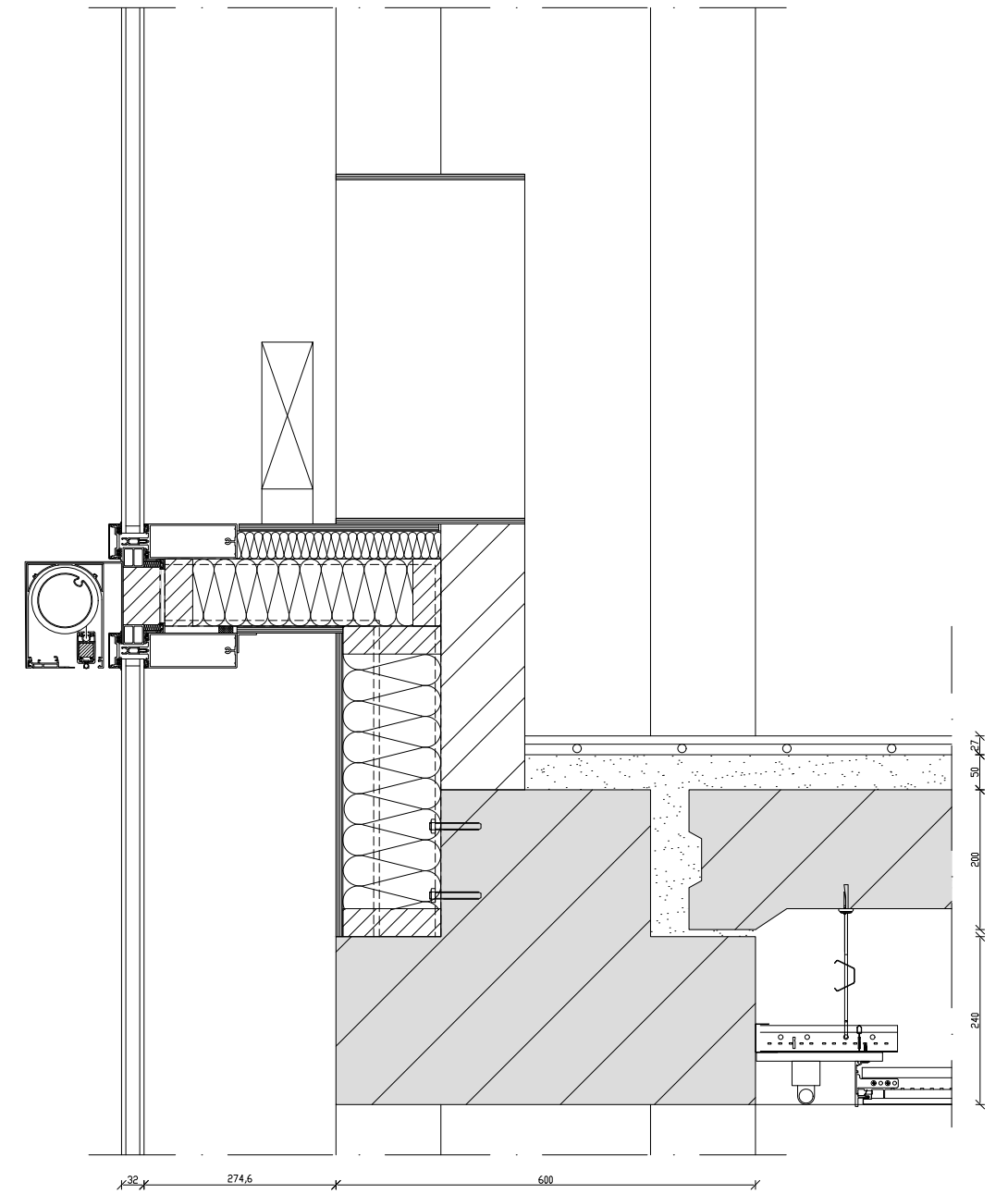
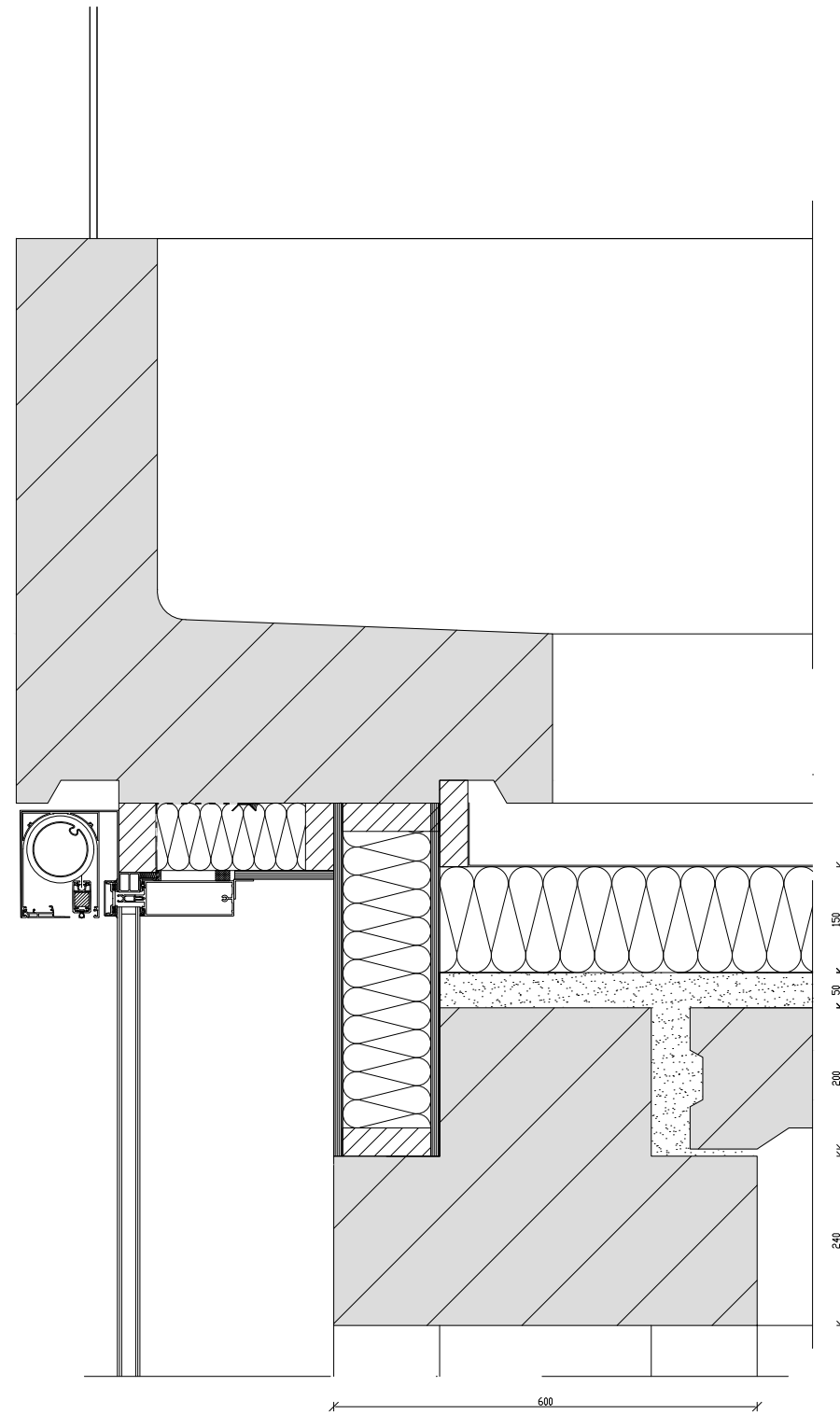
Ventilation:
Blow in from the ceiling and suction in the lowered ceiling.

Heating:
Floor heating with convectors against the exterior facade.



Design

Existing facade

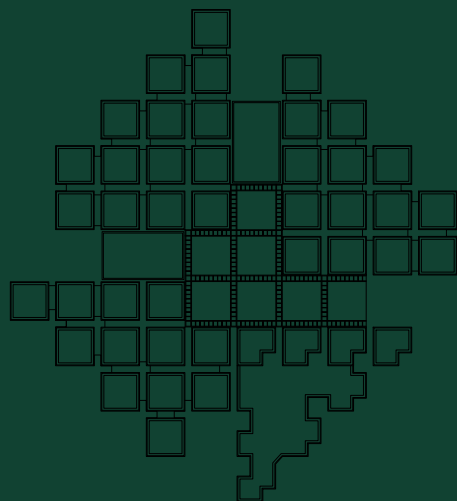
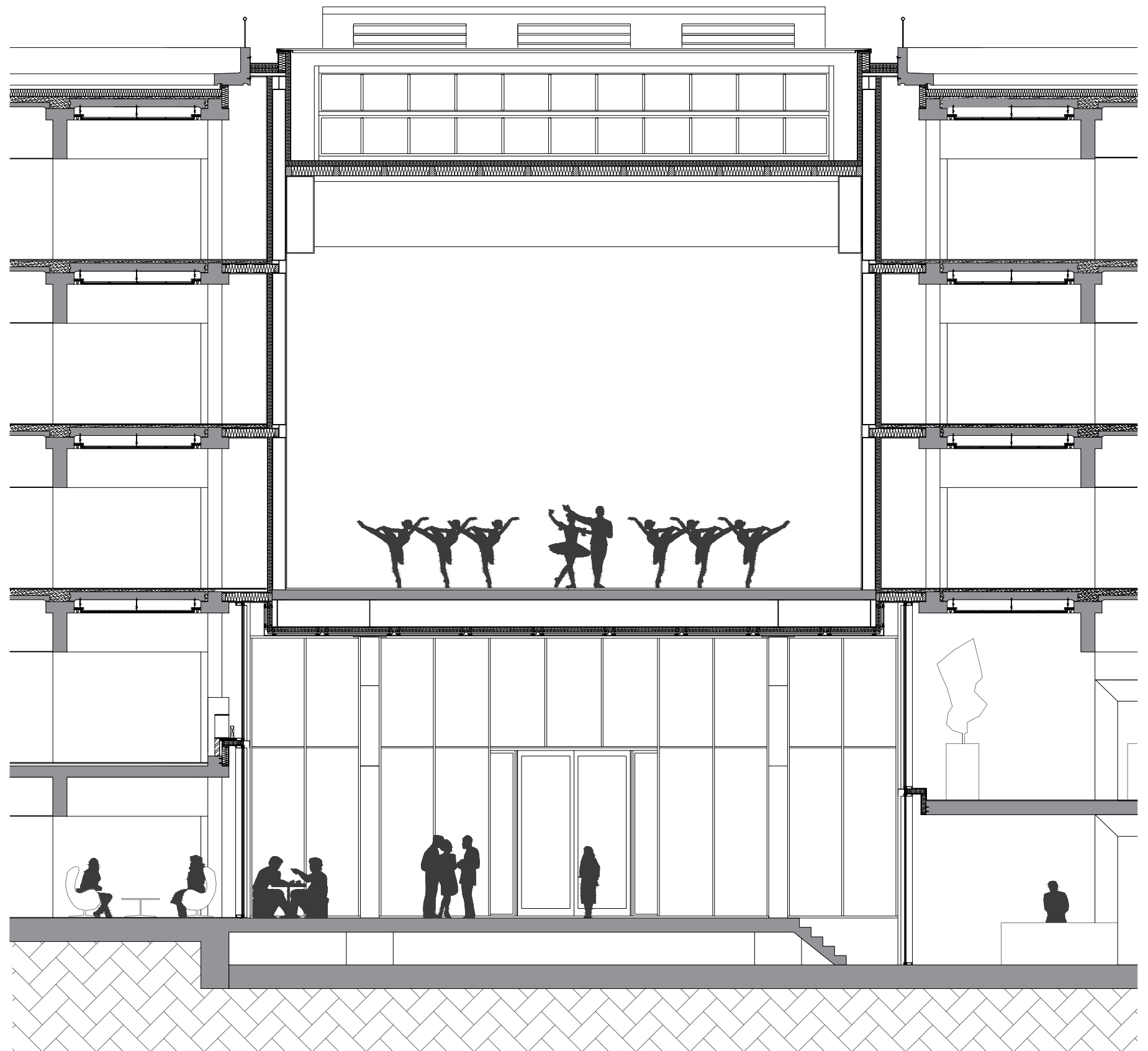


Design

Dance hall

Stands on its own construction.

From the outside it looks like a element on its own not touching the existing building

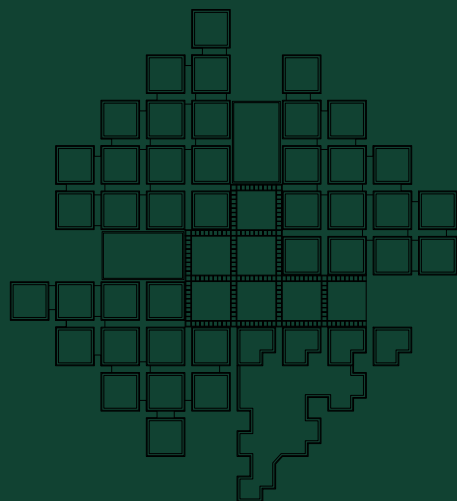
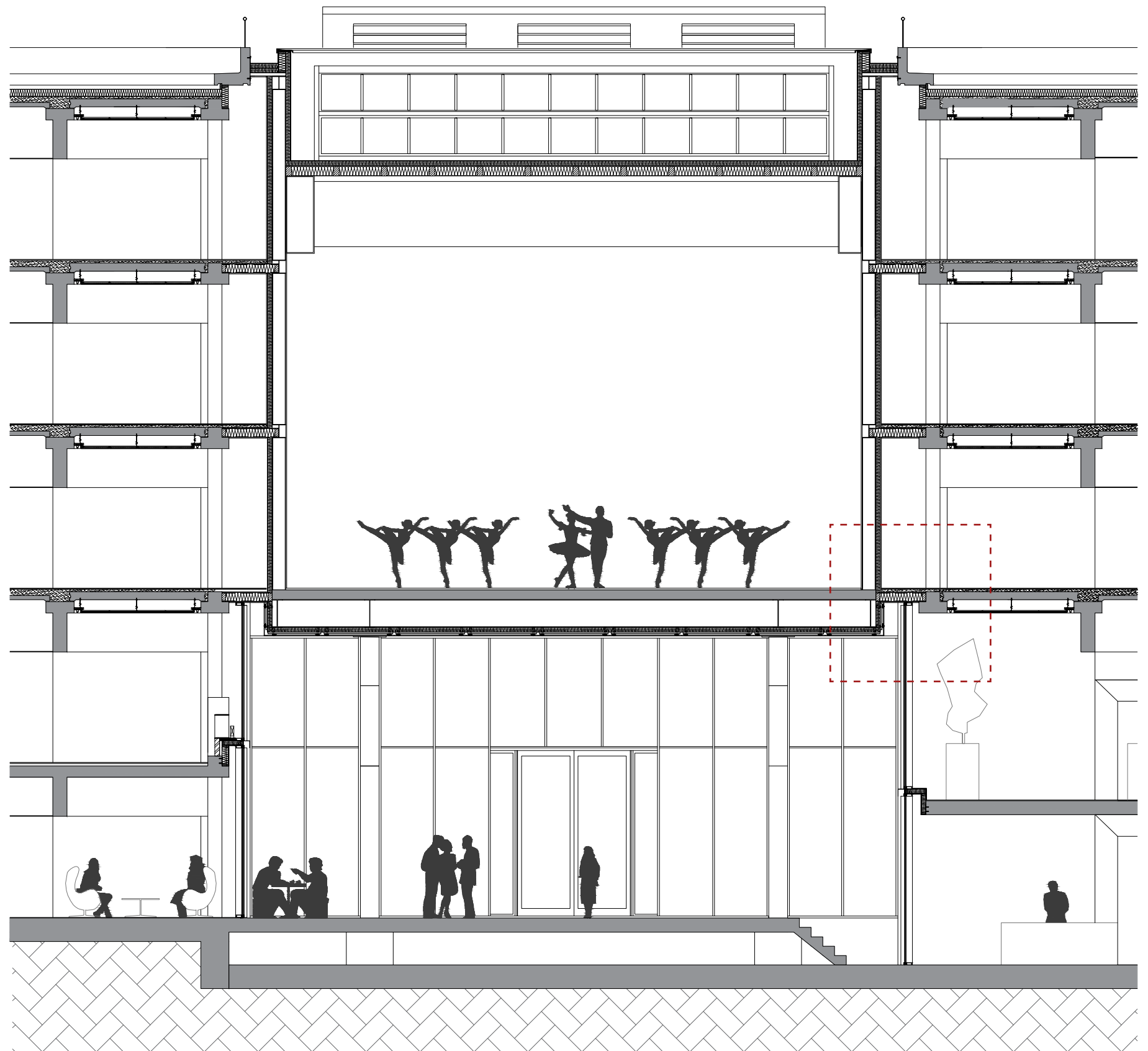


Design

Dance hall

Stands on its own construction.

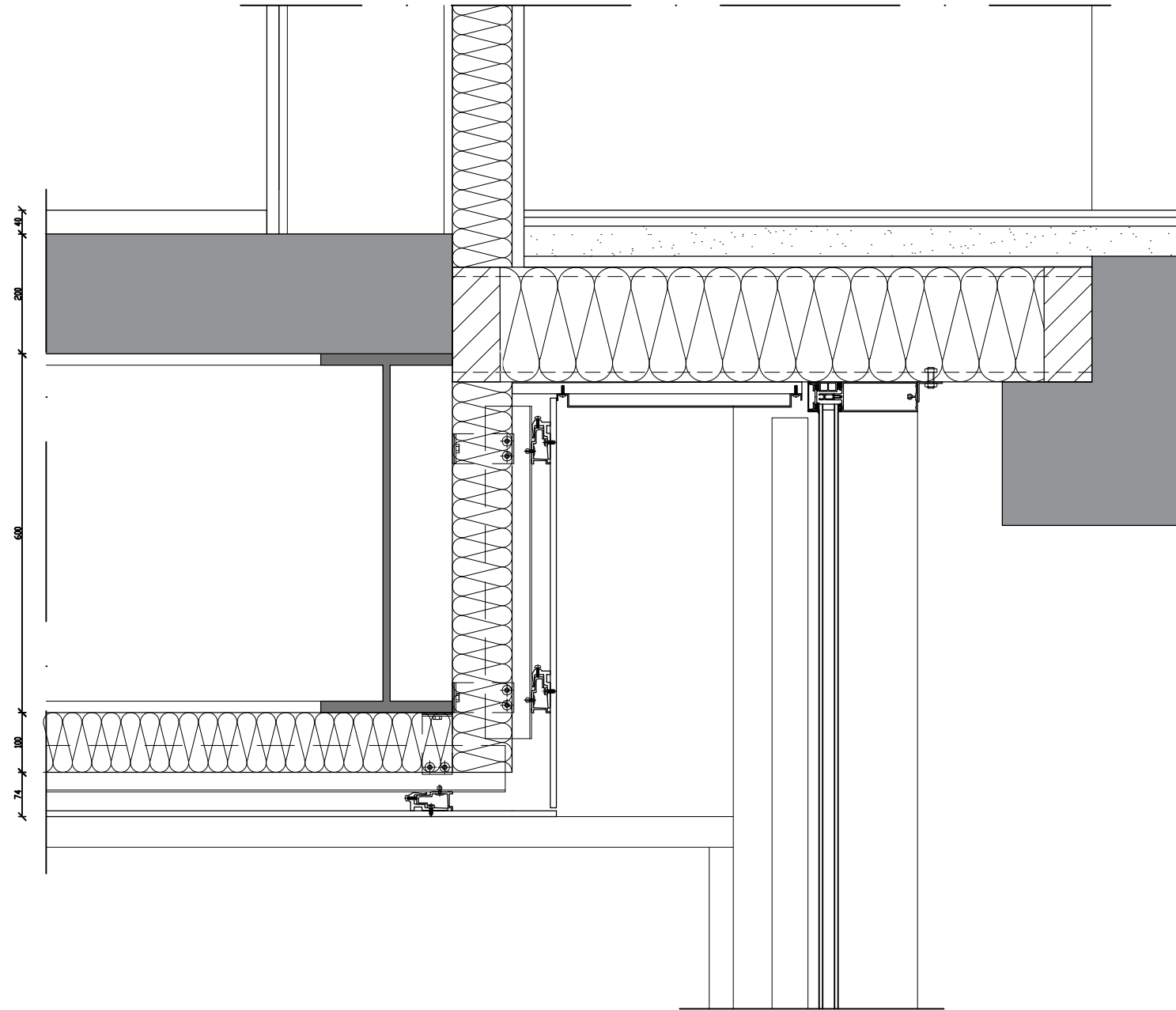
From the outside it looks like a element on its own not touching the existing building



Design

Dance hall

Connection of the
box with the existitng
structure



Design

Dance hall

The way light enters
the room indirectly



1

Introducation

2

Value assesment

3

New program

4

Design

5

Conclusion

Conclusion

Research question

“How to create hierarchy in a structuralist building without affecting the value and the structural appearance of the building?”

Conclusion

Heritage position

Keep the elements that tell the history of the building or
even strengthen them
and make the building for the users.

Repetition in structuralist building gives freedom

Conclusion

Reflection

Subjects for further
research

Questions?!