

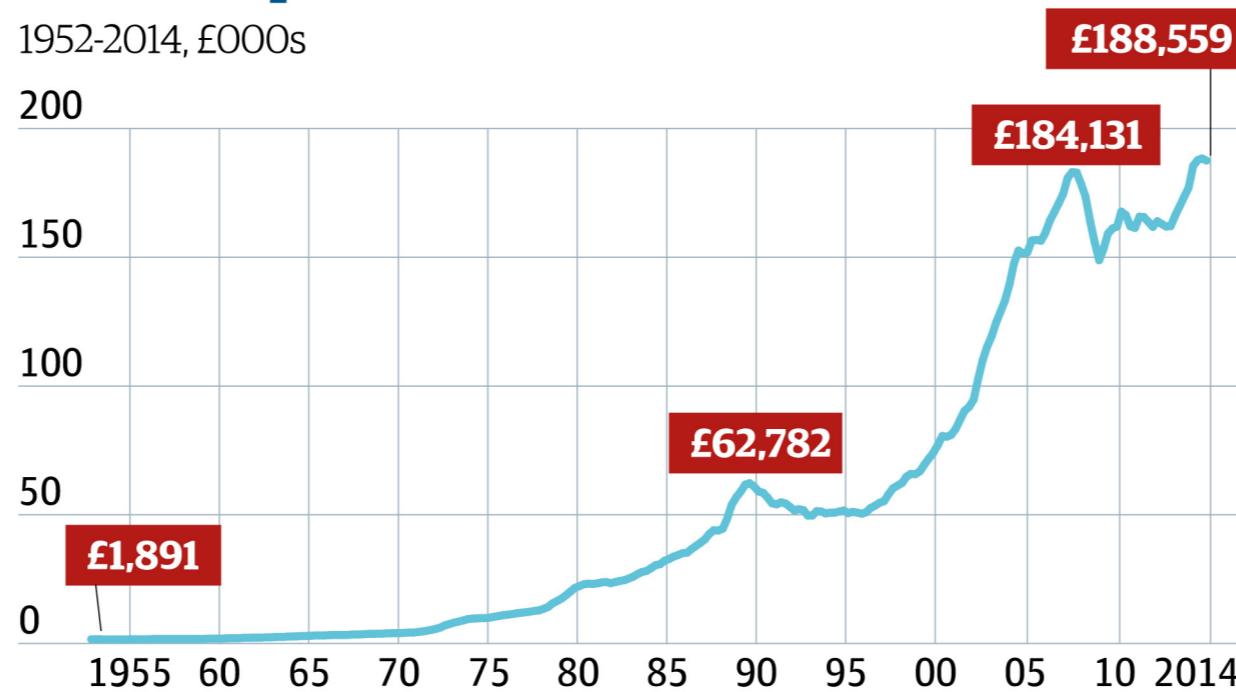
# The tailored, project hackney

Making living in cities attainable again

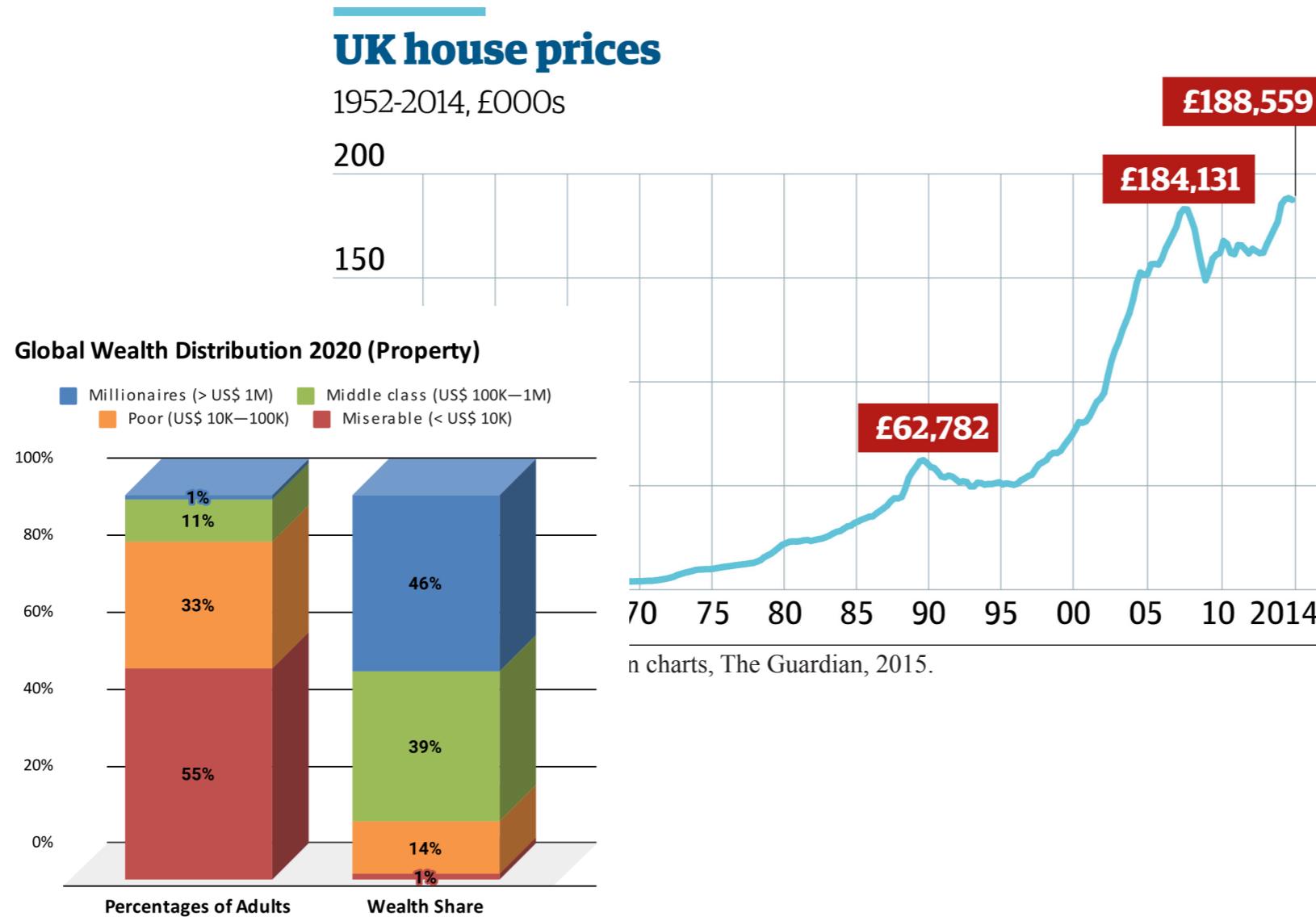


## UK house prices

1952-2014, £000s



Source: The housing crisis in charts, The Guardian, 2015.



**Source:** Global share of wealth by wealth group, Credit Suisse, 2021.

## UK house prices

1952-2014, £000s

200

150

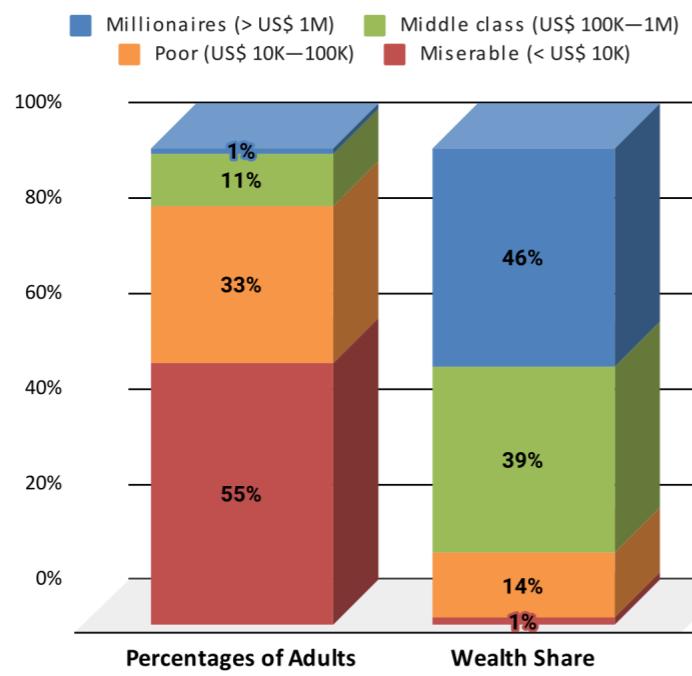
£188,559

£184,131

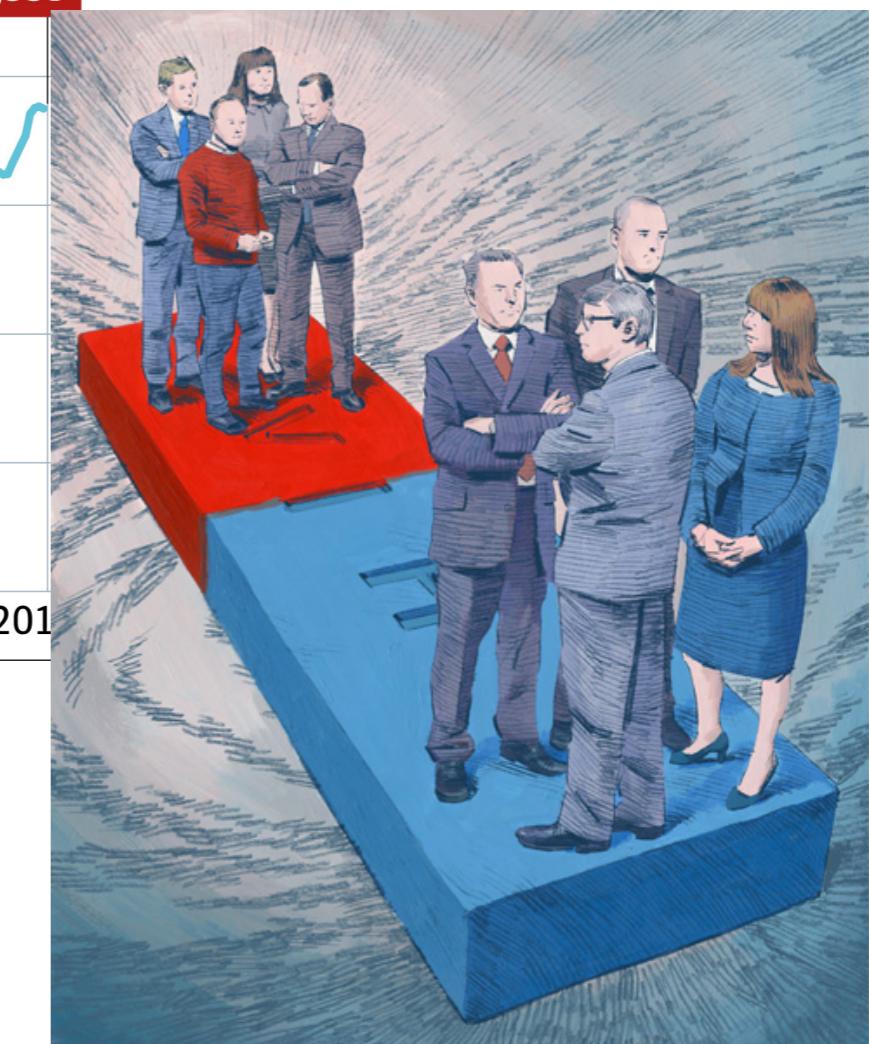
£62,782

n charts, The Guardian, 2015.

### Global Wealth Distribution 2020 (Property)



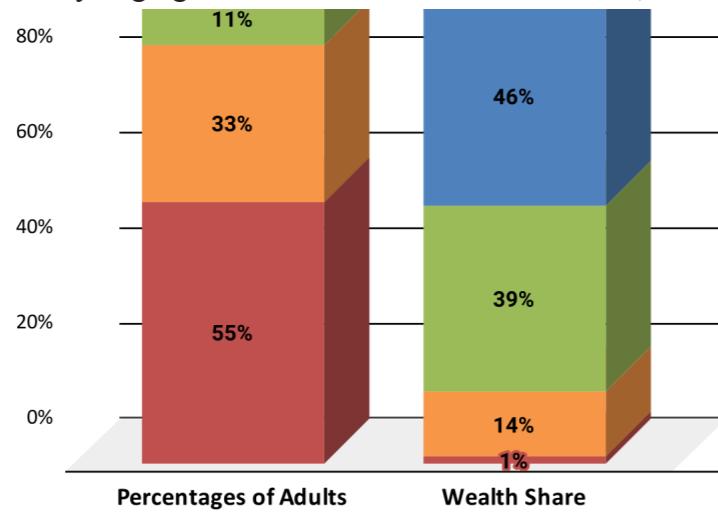
**Source:** Global share of wealth by wealth group, Credit Suisse, 2021.



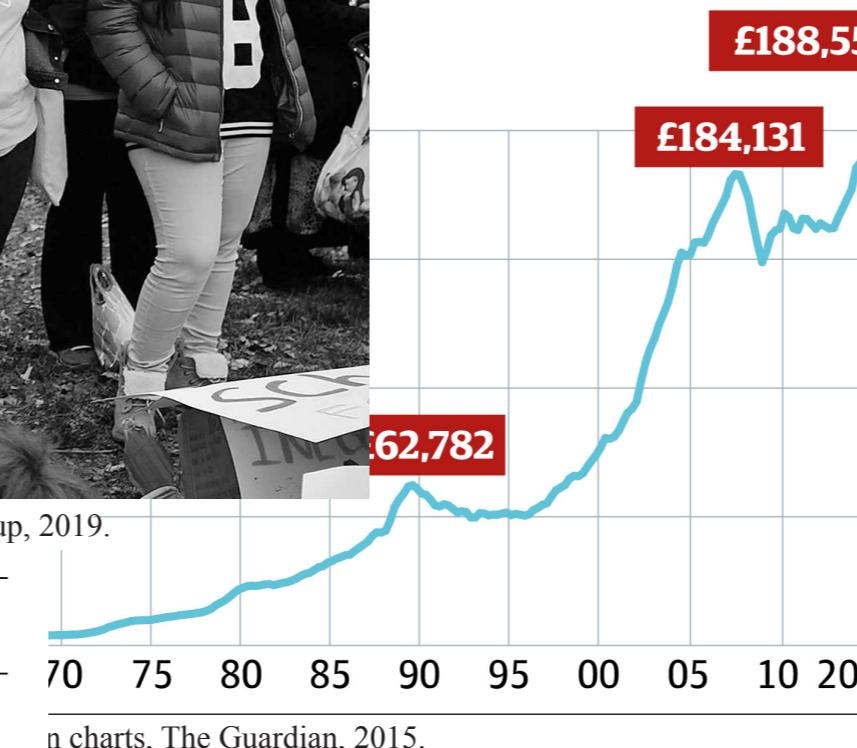
**Source:** Illustration for an article on the increasing polarization of the Swedish political parties for Vi magazine, Sweden.



Source: Most Americans Say Segregation in Schools a Serious Problem, Gallup, 2019.



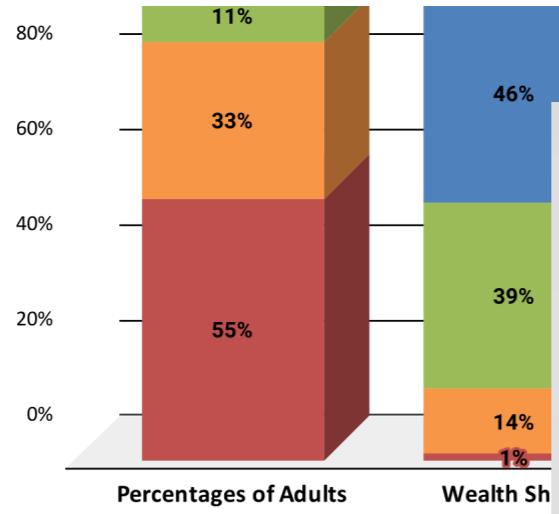
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Source: Most Americans Say Segregation in Schools a Serious Problem, Gallup, 2019.



Source: Global share of wealth by wealth group, Suisse, 2021.



Source: Onderzoek: Nederlanders denken dat fake news zal toenemen, Marketingtribune, 2019.



Illustration for an article on the increasing polarization between political parties for Vi magazine, Sweden.

RESEARCH

DESIGN ASSIGNMENT

DESIGN PROPOSAL

# RESEARCH

how to make living in cities attainable again

What does the social imbalance in London look like and how can we create opportunities for those communities that are now being left behind?

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1. Which communities are being left behind in the economic growth?

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2. What are the possible ways for creating upward mobility, and what are the pros and cons of those?

What does the social imbalance in London look like and how can we create opportunities for those communities that are now being left behind?

1. Which communities are being left behind in the economic growth?
2. What are the possible ways for creating upward mobility, and what are the pros and cons of those?
3. How can architecture attribute to a solution?

Which communities are being left behind in the economic growth?

	Average top 10 most deprived wards	Average top 10 least deprived wards
% All children aged 0 - 15	21,5	18,5
% All working-age (16 - 64)	71	62,5
% All older people aged 65+	7,5	19
<b>% BAME</b>	<b>56,5</b>	<b>13</b>
% English is first language of no one in household	18	4
Rate of new registrations of migrant workers	64	12
% children in reception year who are obese	15	6
% children in year 6 who are obese	28	11,5
Employment rate (16 - 64)	59	77
% with no qualifications	24,5	13
Crime rate	104,5	44,5
Median house price	£ 340.395	£ 575.920
Median households income estimate	£ 30.556	£ 48.773
% of households owned	20,5	79,5

A comparison between the 10 most and least deprived wards on a few key subjects (Greater London Authority (GLA), 2001–2031).

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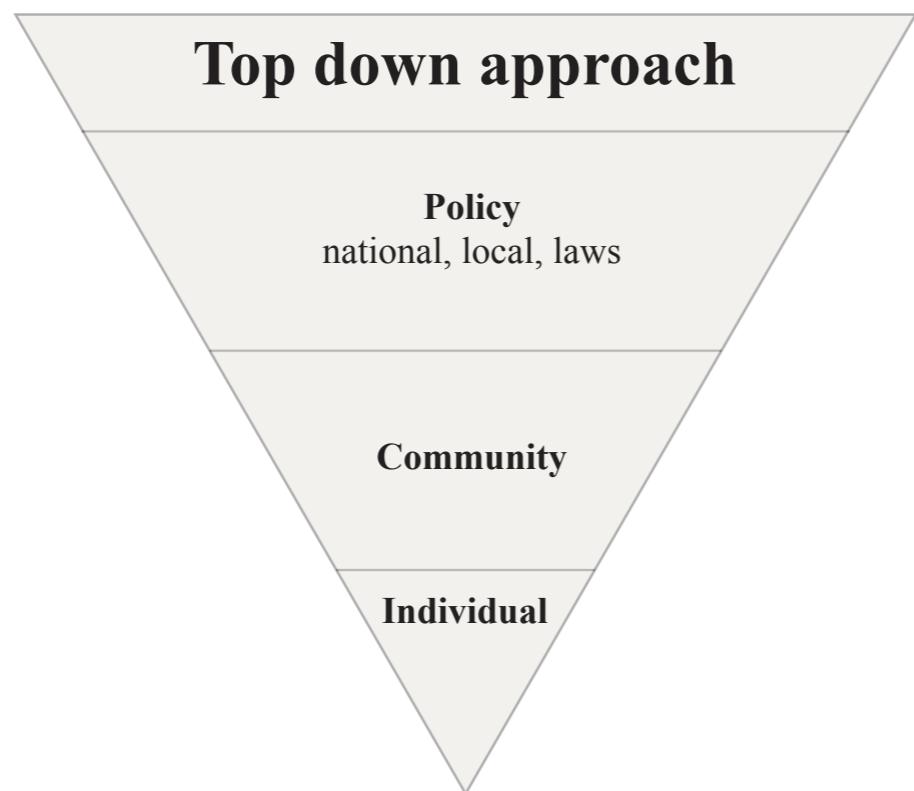
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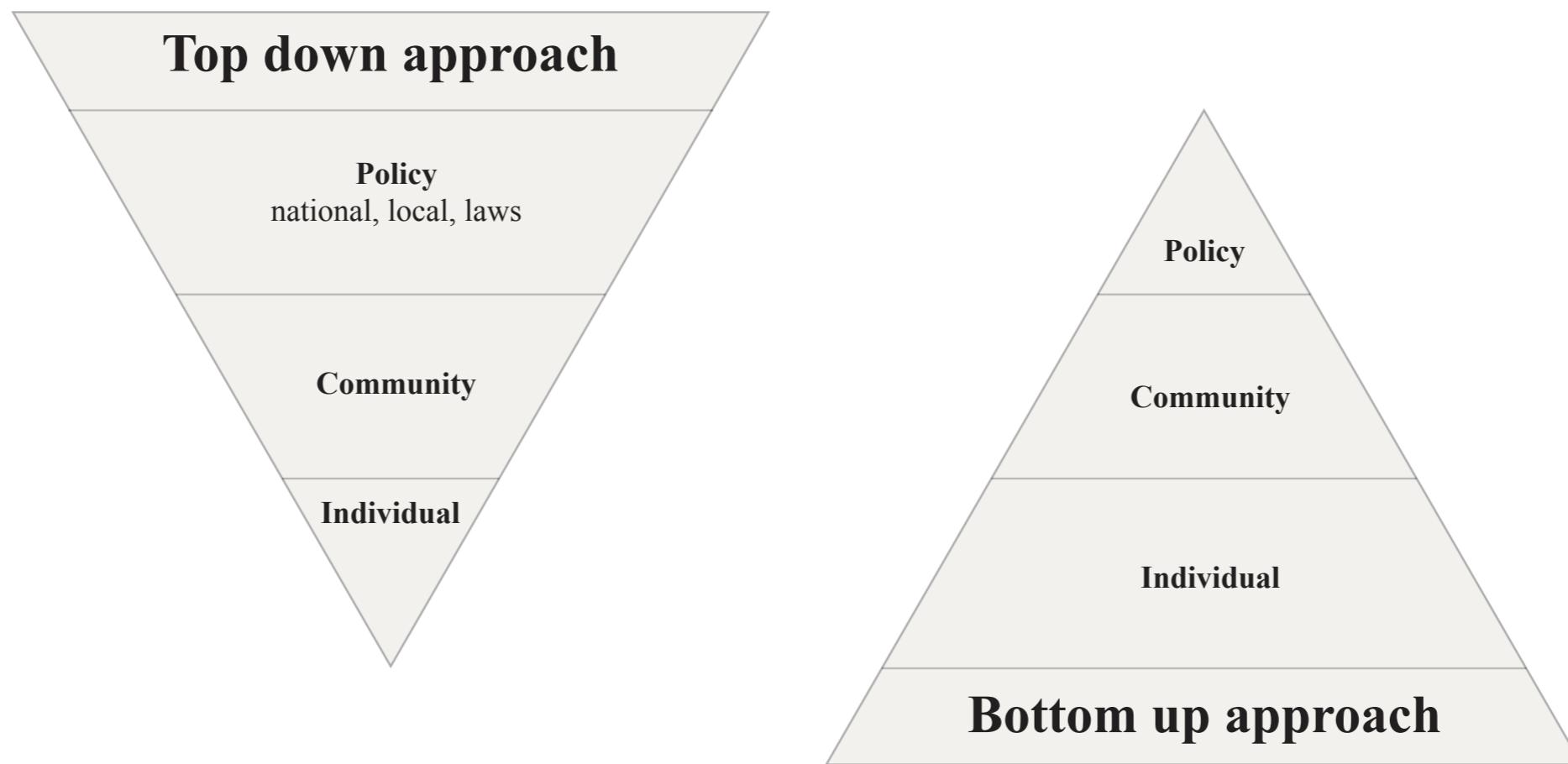
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What are the possible ways for creating upward mobility,  
and what are the pros and cons of those?





How can architecture attribute to a solution?

# Conclusion

What does the social imbalance in London look like and how can we create opportunities for those communities that are now being left behind?

formulation of the  
**DESIGN ASSIGNMENT**

Research conclusion:

- Create opportunities for upward mobility
- Create the physical conditions that will facilitate interactions

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Aims design assignment:

- Creating jobs
- Creating opportunities for education
- Be part of the social infrastructure of the neighbourhood

Creating a community based approach to improve the social balance in a neighbourhood through fashion

Research conclusion:

- Create opportunities for upward mobility
- Create the physical conditions that will facilitate interactions

Aims design assignment:

- Creating jobs
- Creating opportunities for education
- Be part of the social infrastructure of the neighbourhood

Program elements:

- Clothing manufacturing company
- Education in clothing manufacturing
- Cafeteria

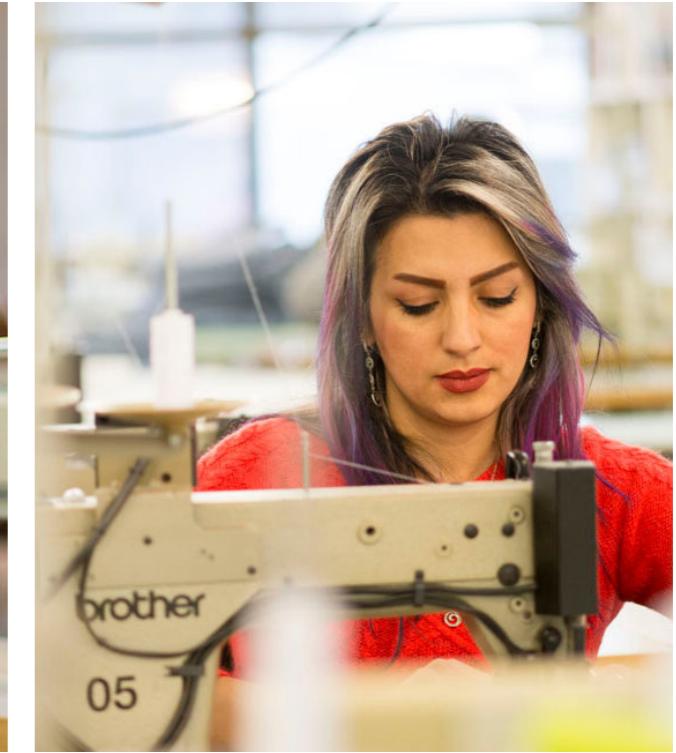
## The production of clothing

Community Clothing, founded by Patric Grant



## Education in manufacturing

i-did, founded by Mireille Geijsen



## **The cafeteria**

Palaces for the people by Eric Klinenberg

“People usually do not volunteer in a community garden, teach children to read, attend a church picnic, or participate in a rally for better local air quality because they’re trying to generate social cohesion. But, inevitably, the process of doing these activities creates or strengthens social bonds.”

## **Urban anchoring**

Formulation of the design framework

- Location

## **Urban anchoring**

Formulation of the design framework

- Location
- Heritage

## **Urban anchoring**

Formulation of the design framework

- Location
- Heritage
- Flexibility, adaptability and reversibility

## **Urban anchoring**

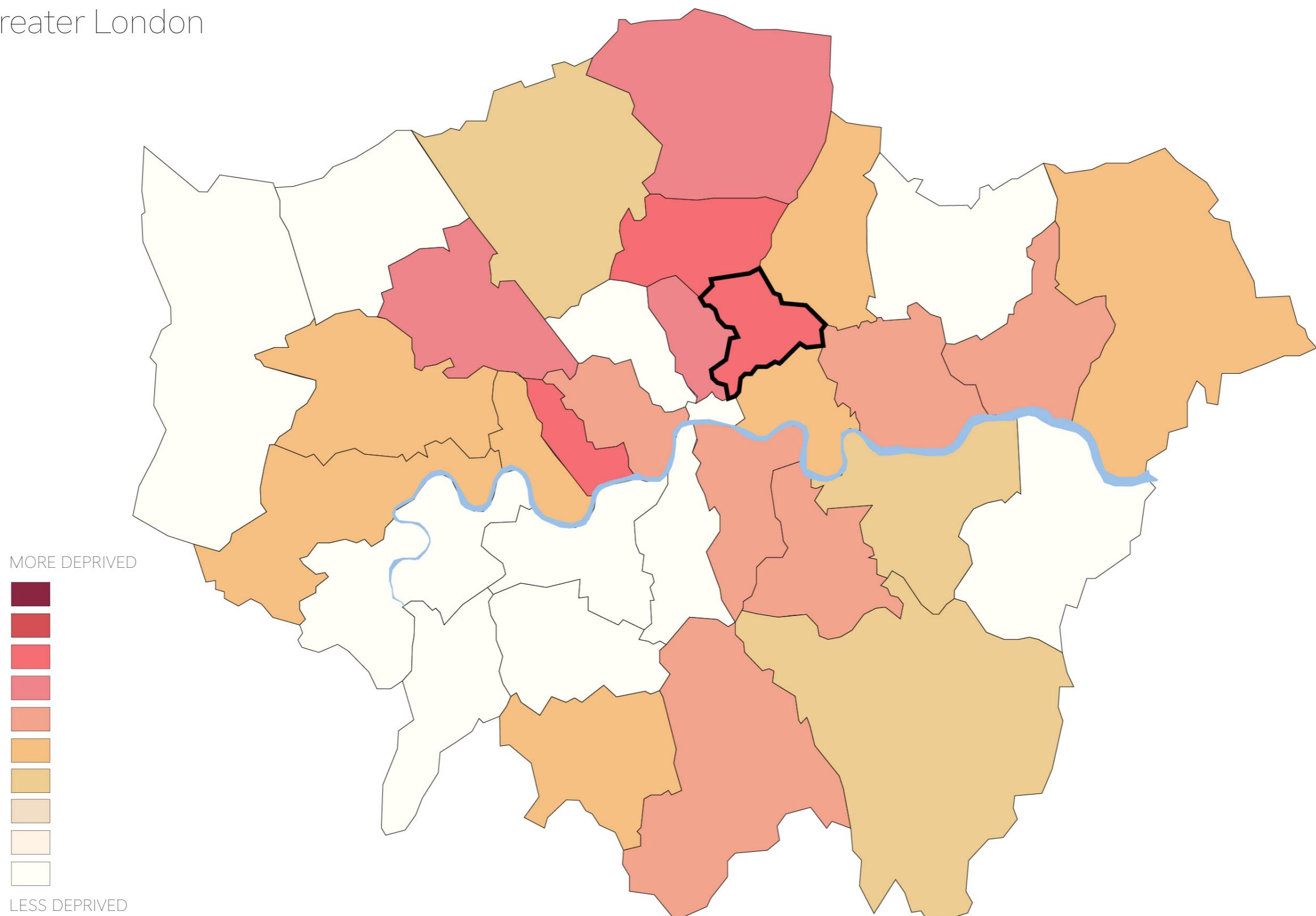
Formulation of the design framework

- Location
- Heritage
- Flexibility, adaptability and reversibility
- Claiming a place in the city

# DESIGN PROPOSAL

proof of concept

## Greater London

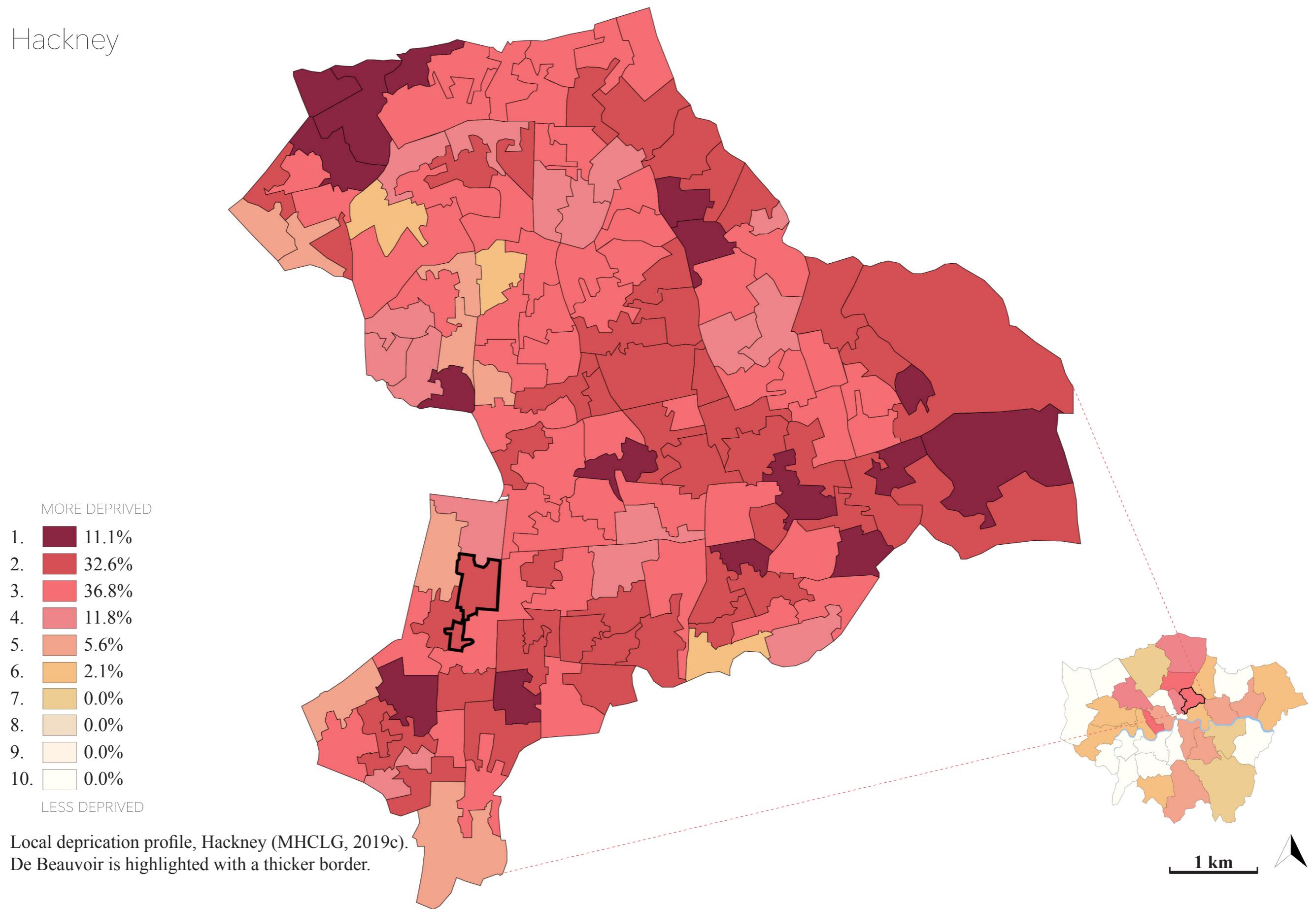


Distribution of the Index of Multiple Deprivation (IMD) 2019 by local authority based on the proportion of their neighbourhoods in the most deprived decile nationally (MHCLG, 2019b).

5 km



# Hackney





**Source:** The Boris building (Bolding, 2019).



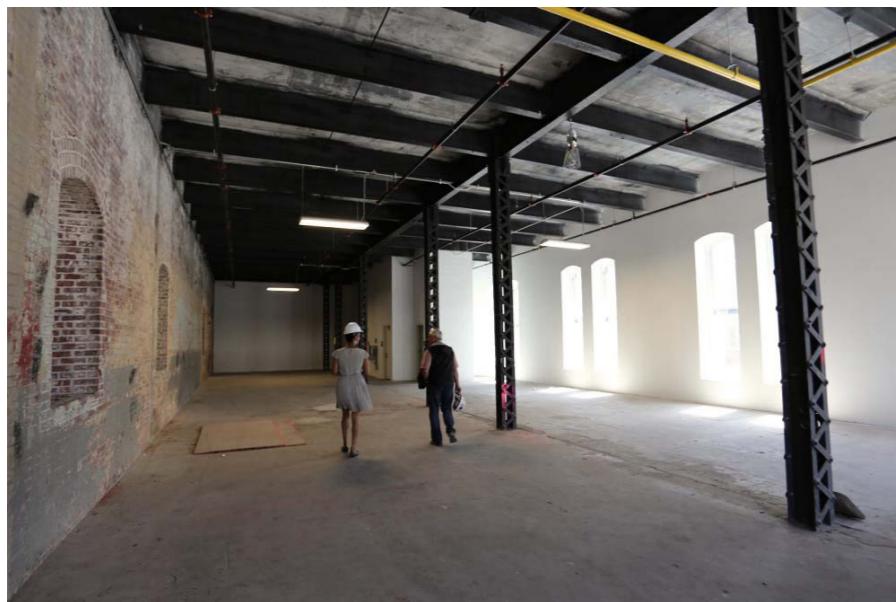




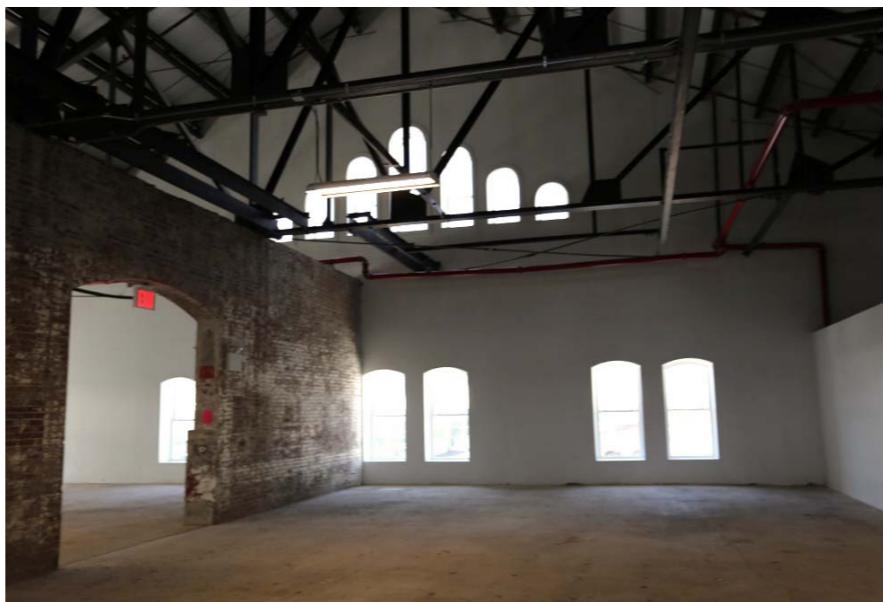




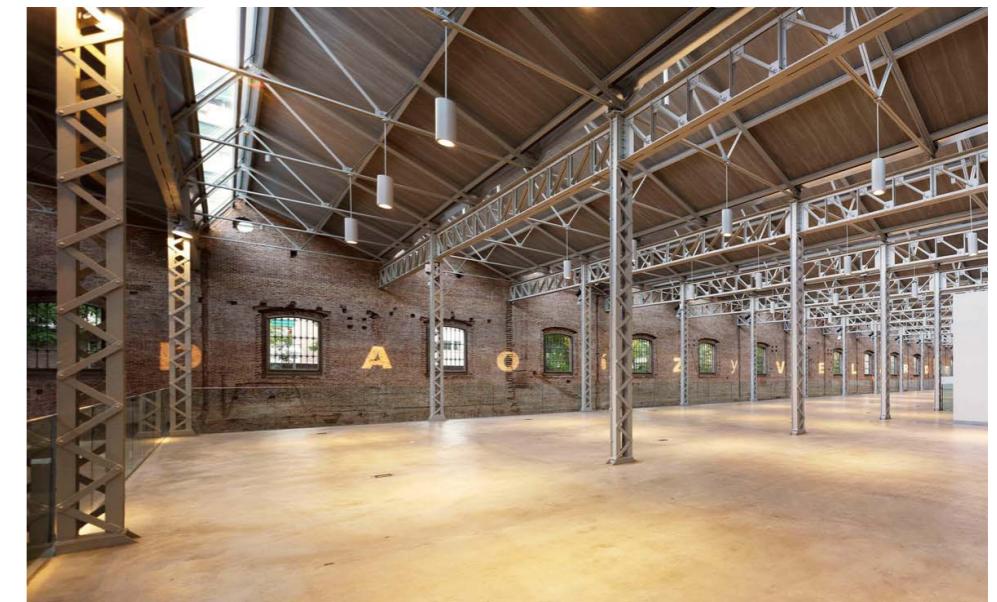
**Source:** Inside one of the buildings (Patru, 2020).

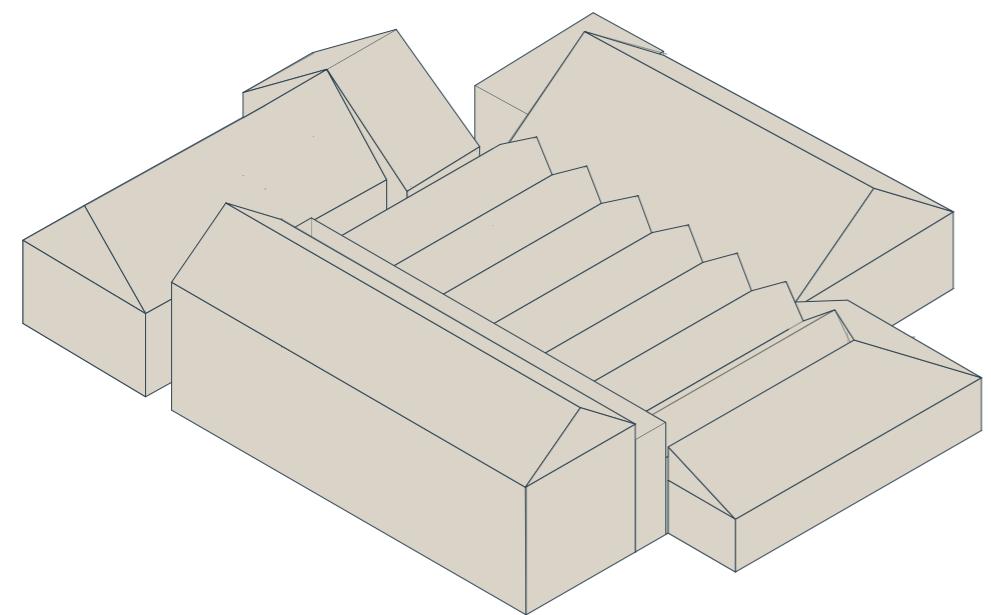


Building 123, Brooklyn

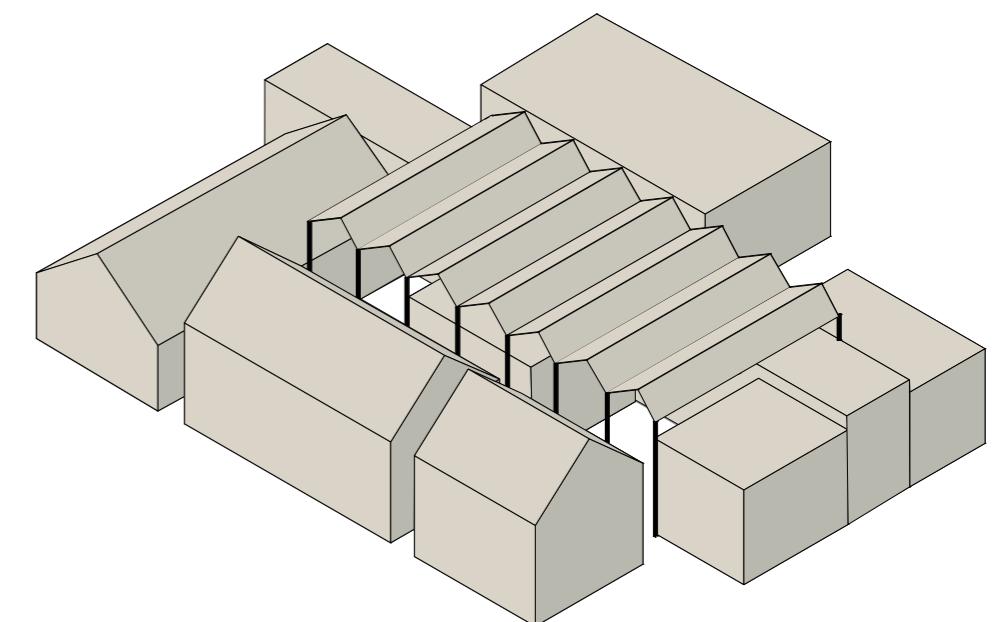
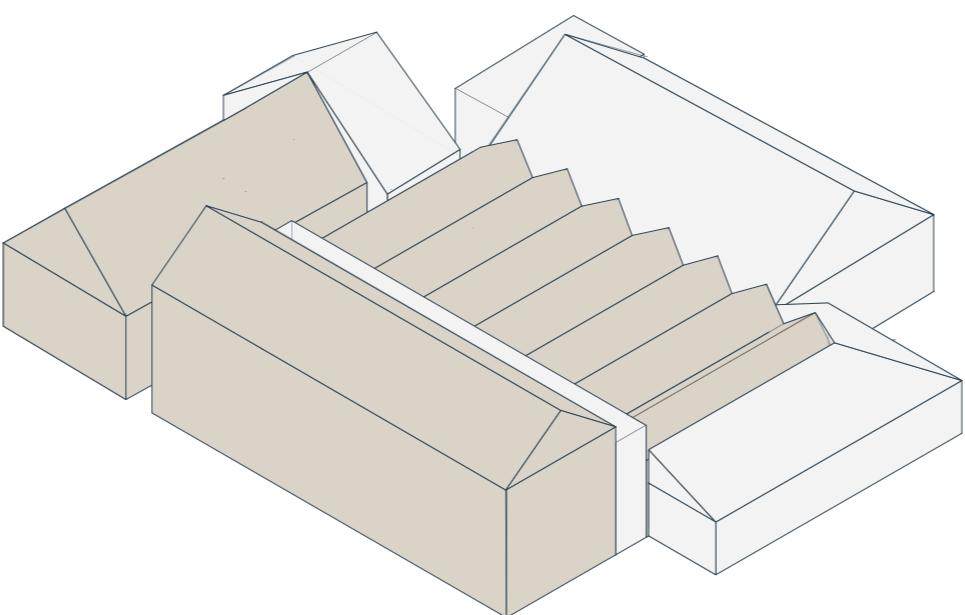


Daoiz y velarde Cultural Centre, Madrid





The Boris Building now



The Boris Building after transformation

Aims design assignment:

- Creating jobs

The program:

- Manufacturing company
  - patternmaking
  - cut
  - make
  - trim

Aims design assignment:

- Creating jobs
- Creating opportunities for education

The program:

- Manufacturing company
  - patternamking
  - cut
  - make
  - trim
- Education facilities

Aims design assignment:

- Creating jobs
- Creating opportunities for education
- Be part of the social infrastructure of the neighbourhood

The program:

- Manufacturing company
  - patternamking
  - cut
  - make
  - trim
- Education facilities
- Community space
  - cafeteria
  - vegetable garden and shop
  - library
  - meditaion / prayer rooms
  - daycare

Aims design assignment:

- Creating jobs
- Creating opportunities for education
- Be part of the social infrastructure of the neighbourhood

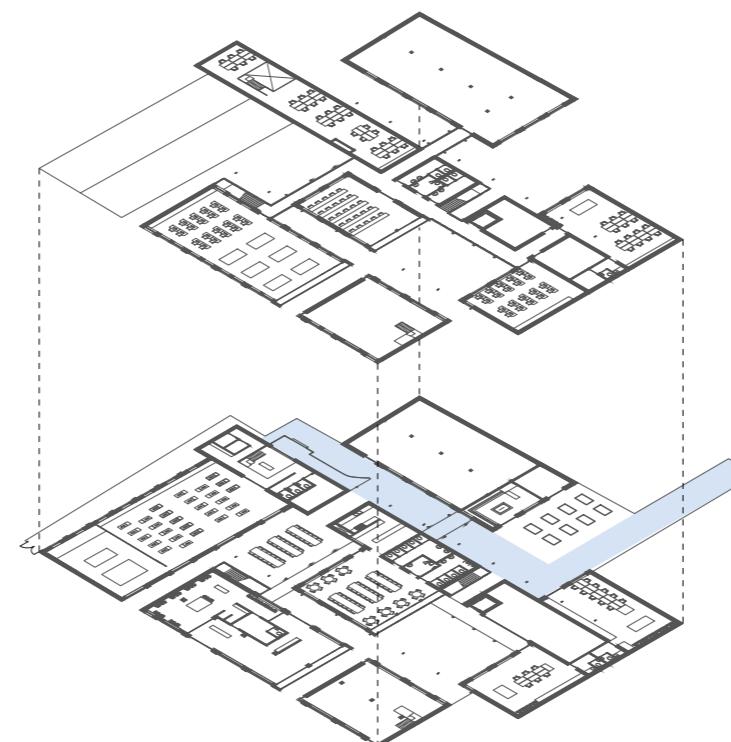
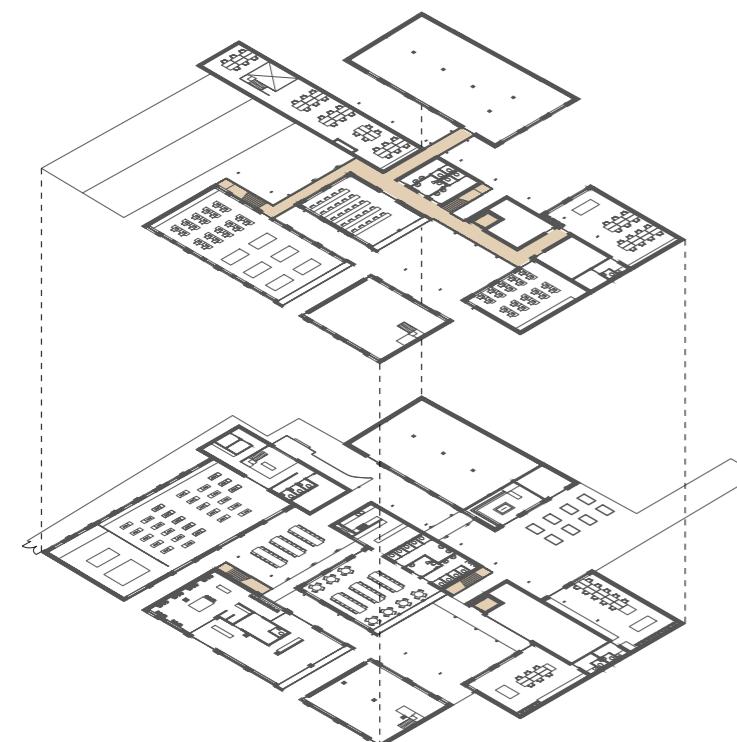
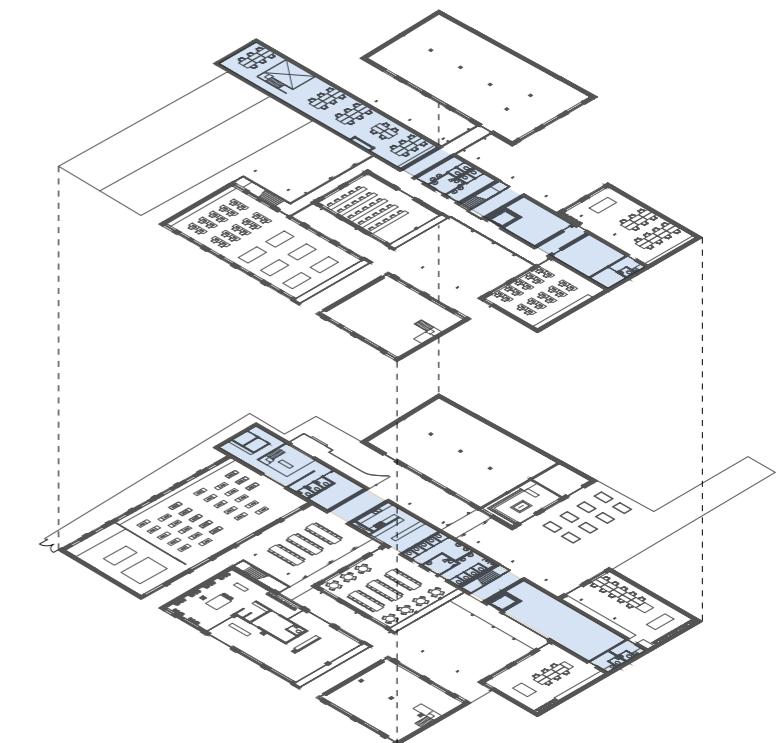
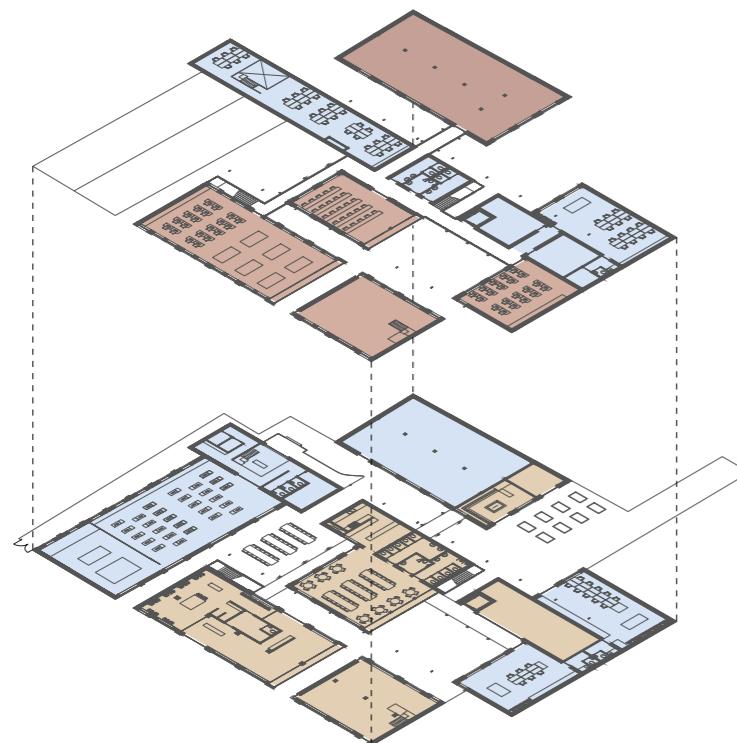
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- Education facilities
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  - vegetable garden and shop
  - library
  - meditaion / prayer rooms
  - daycare
- Reception area
- Clothing labels
- Shop









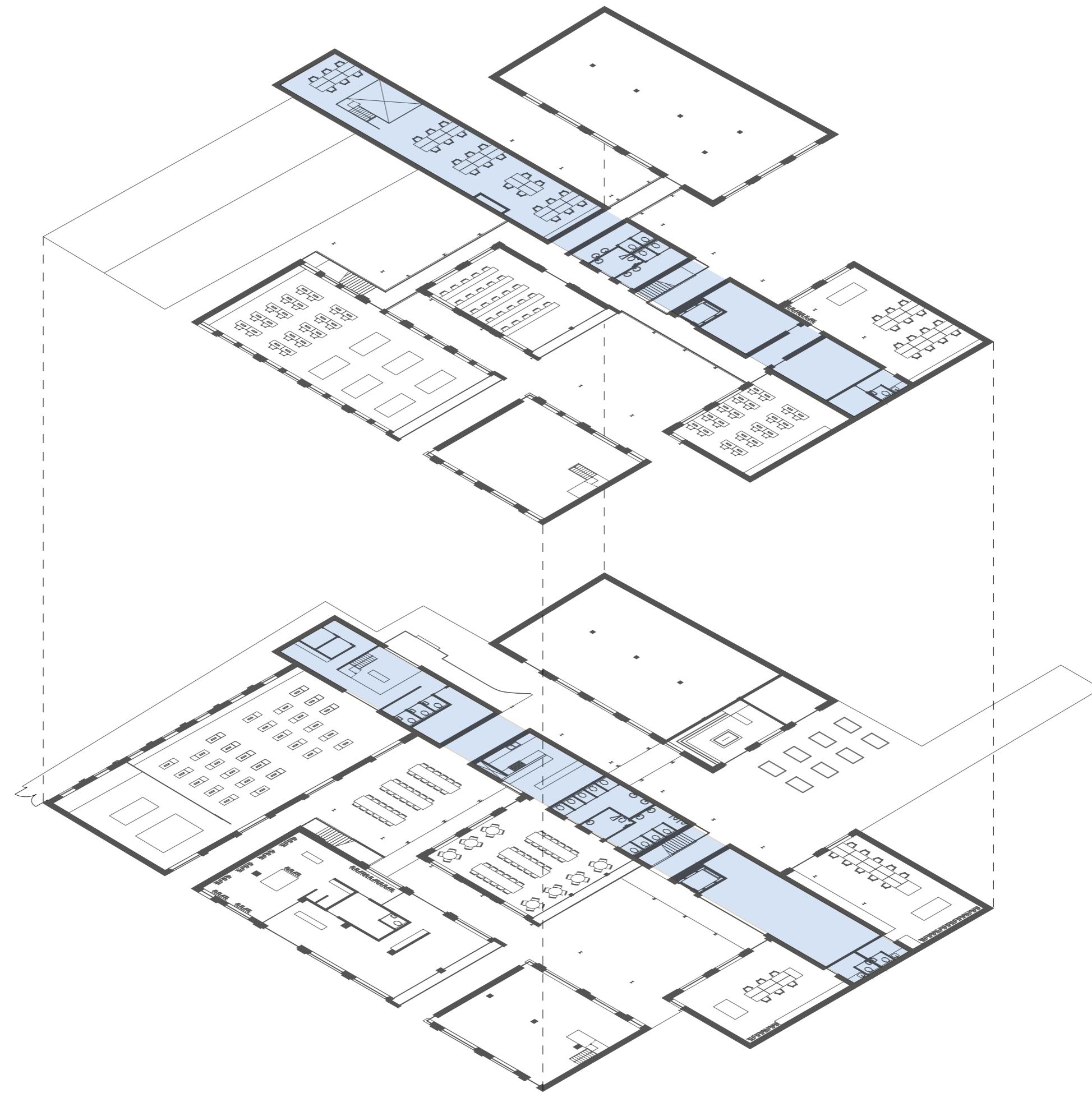
## Activities



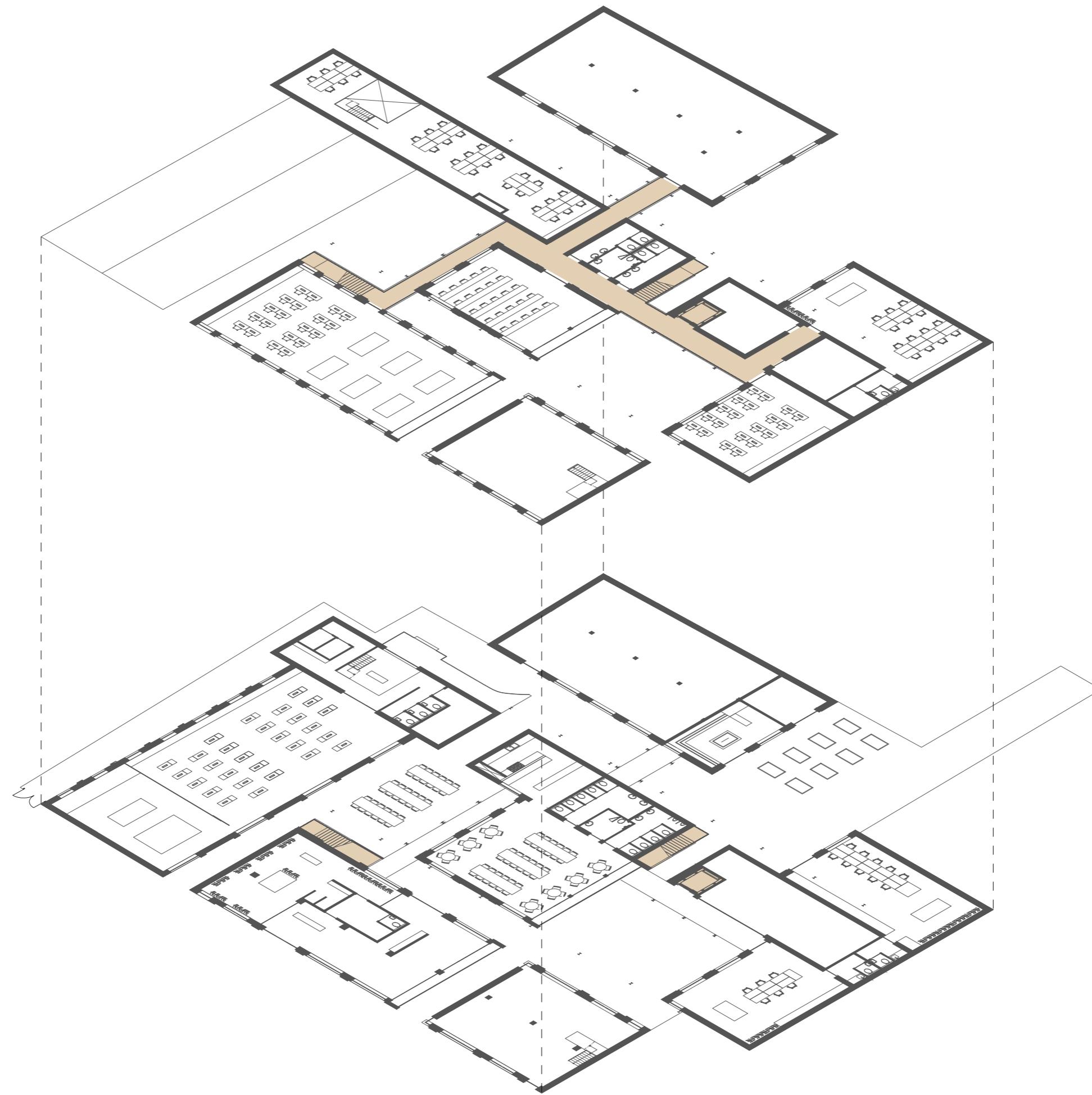
- Business
- Education
- Community



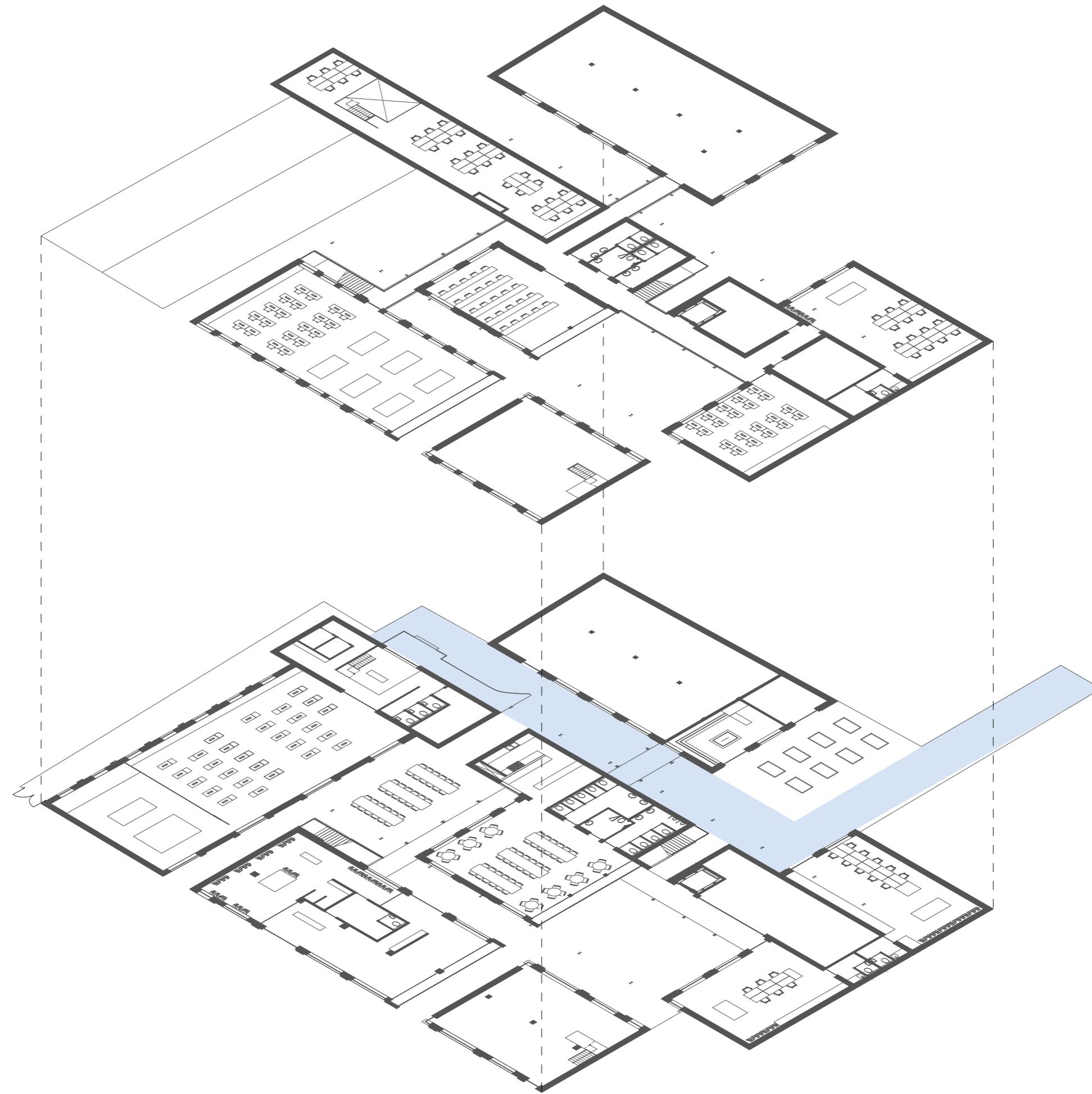
Squares



Service strip



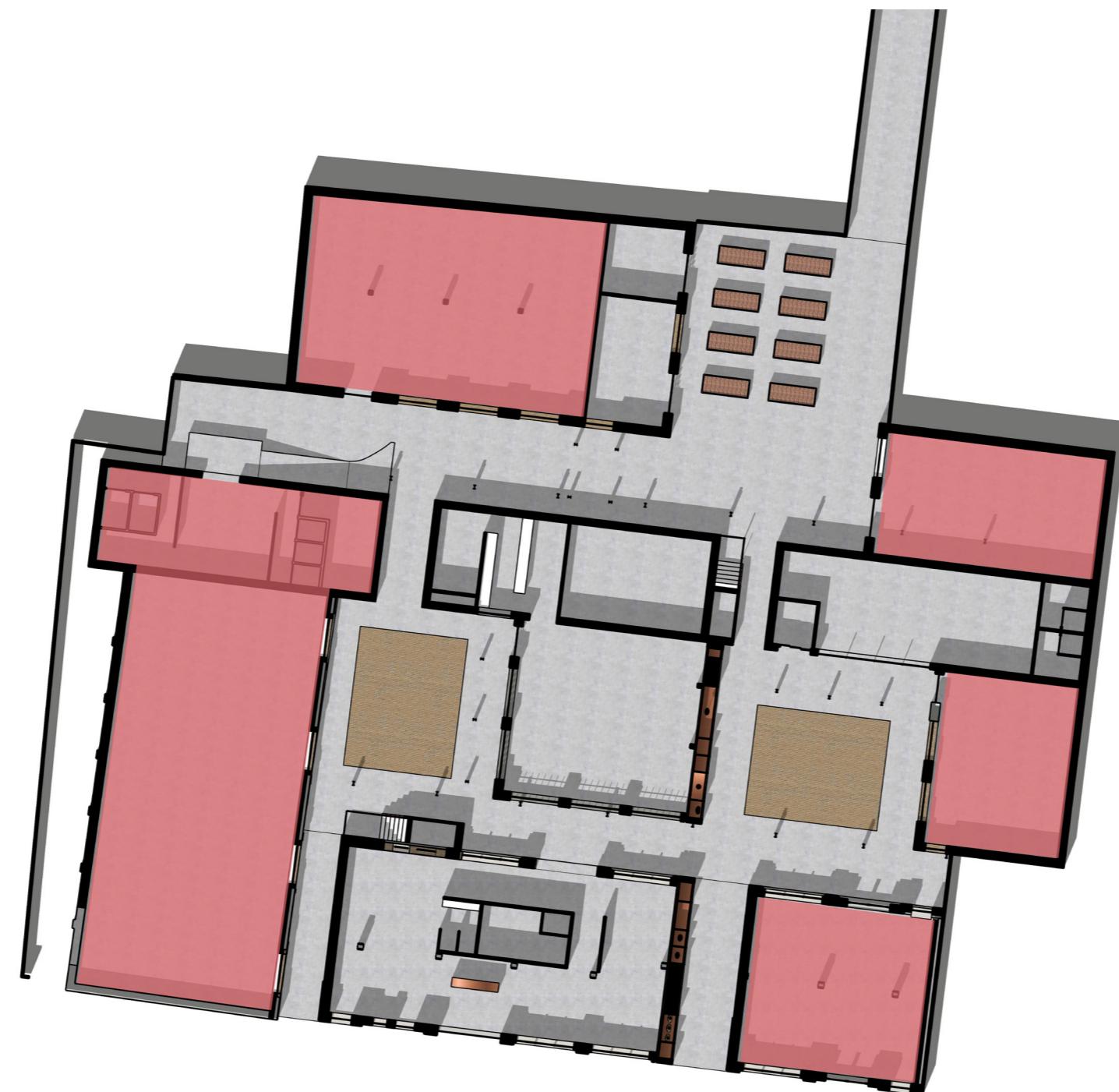
Tunnels



Transport



Gates



Week day





Week day



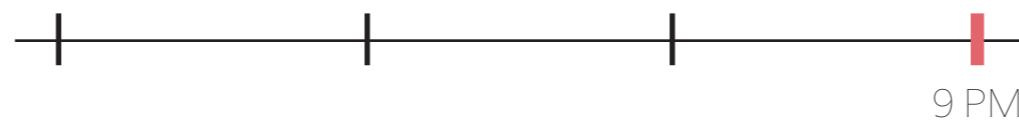


Week day





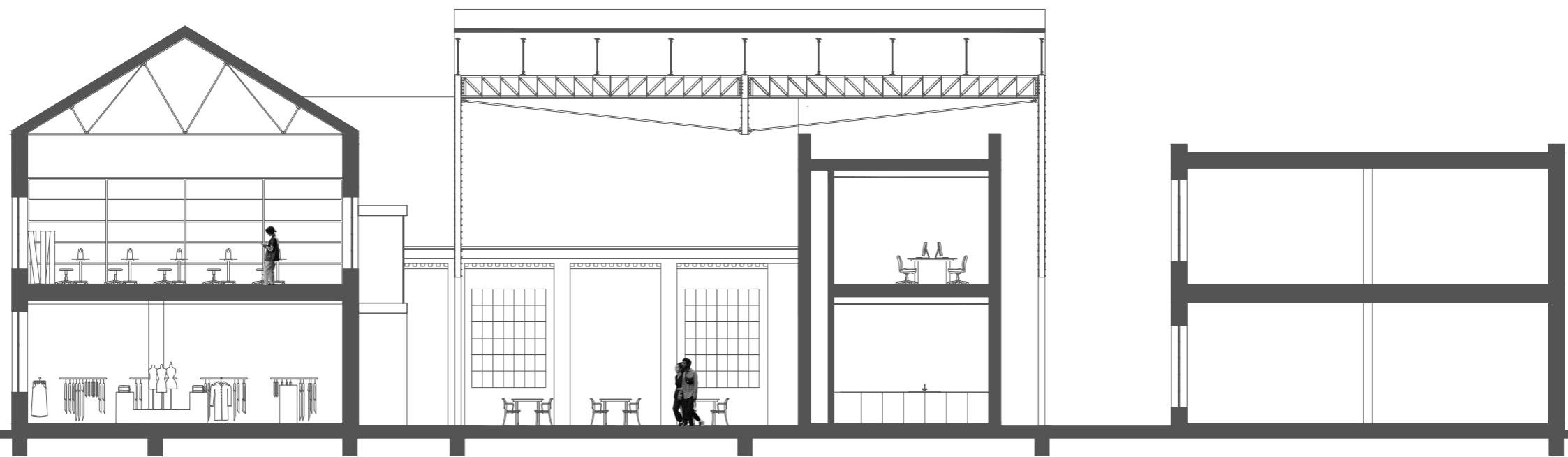
Week day



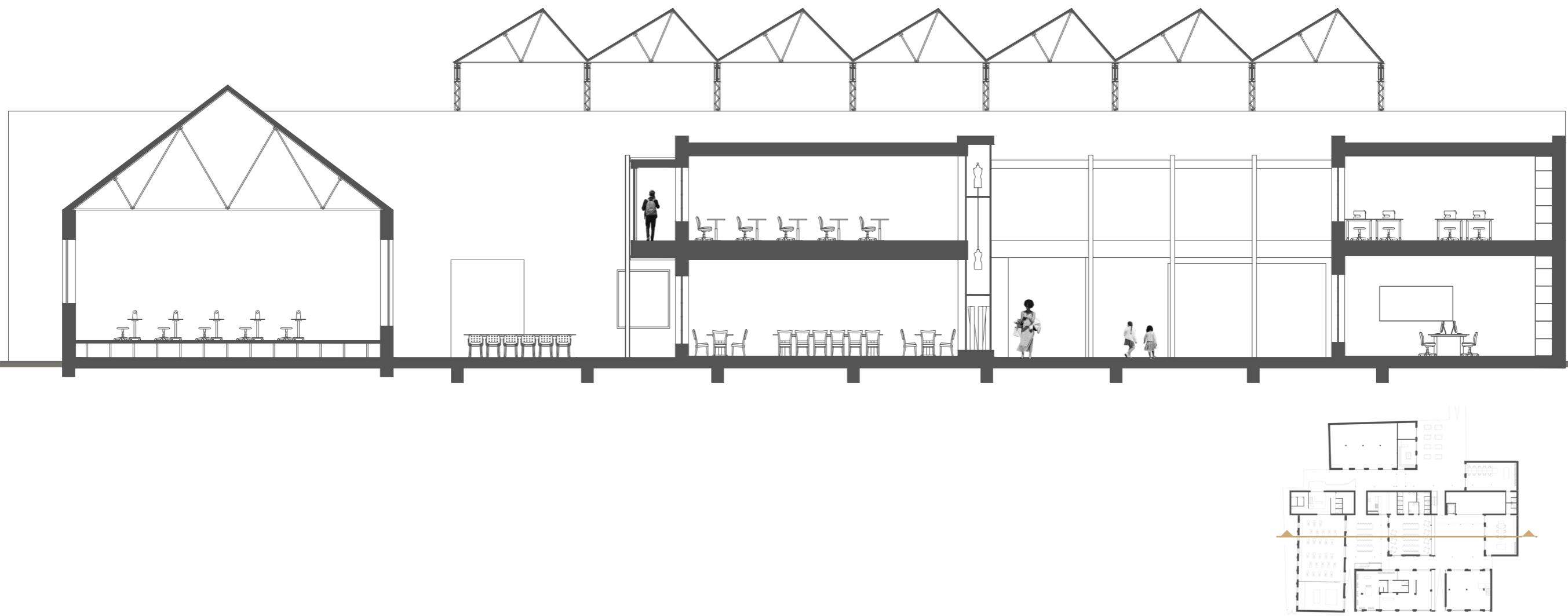


Weekend

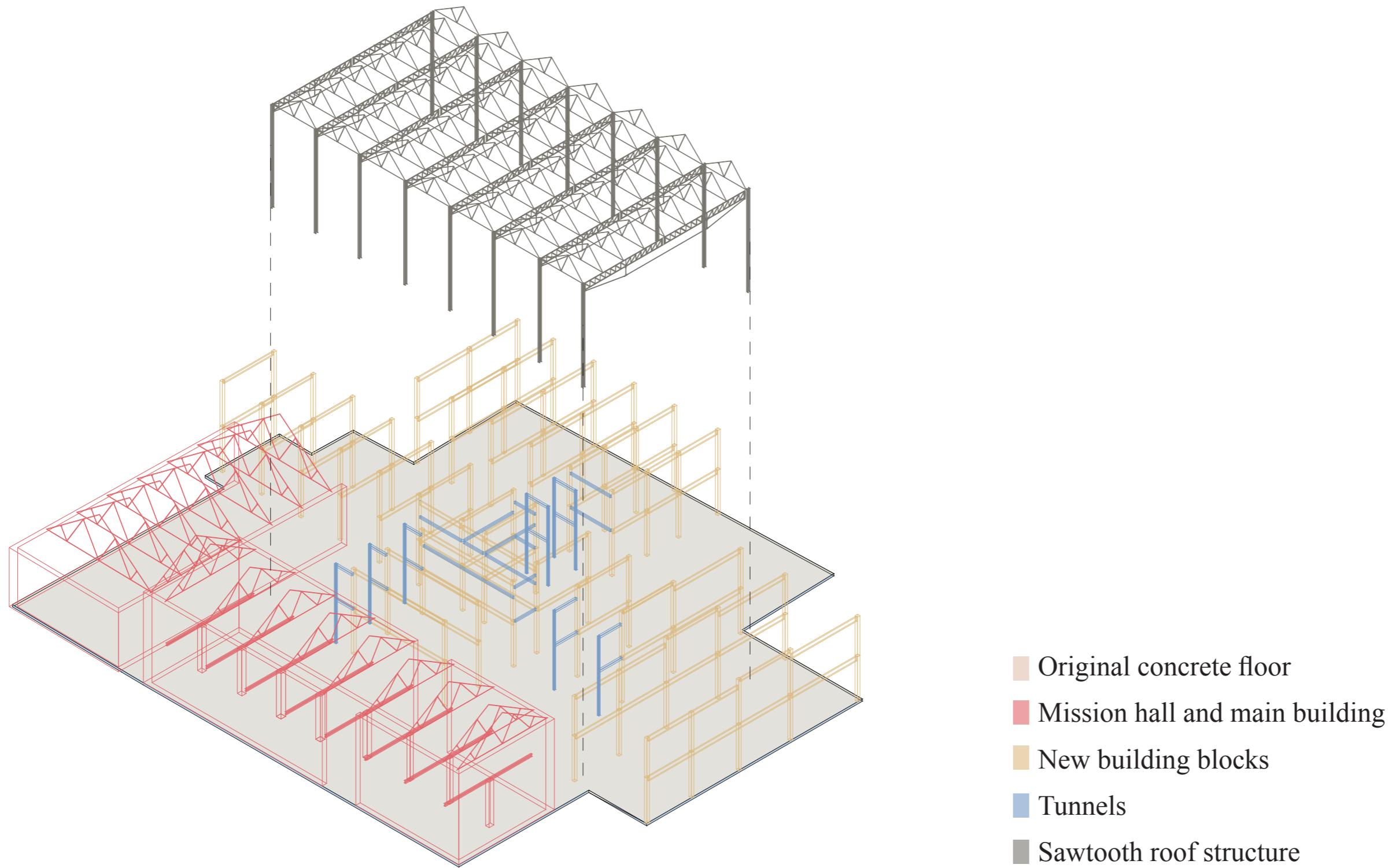


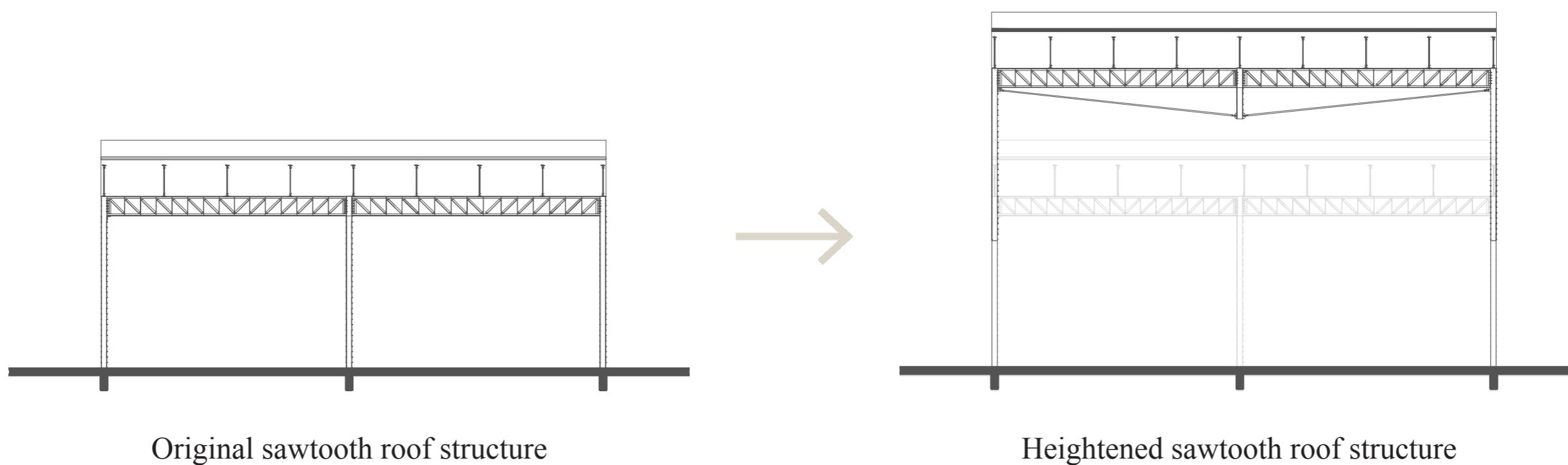


**Section A**  
Scale 1:150

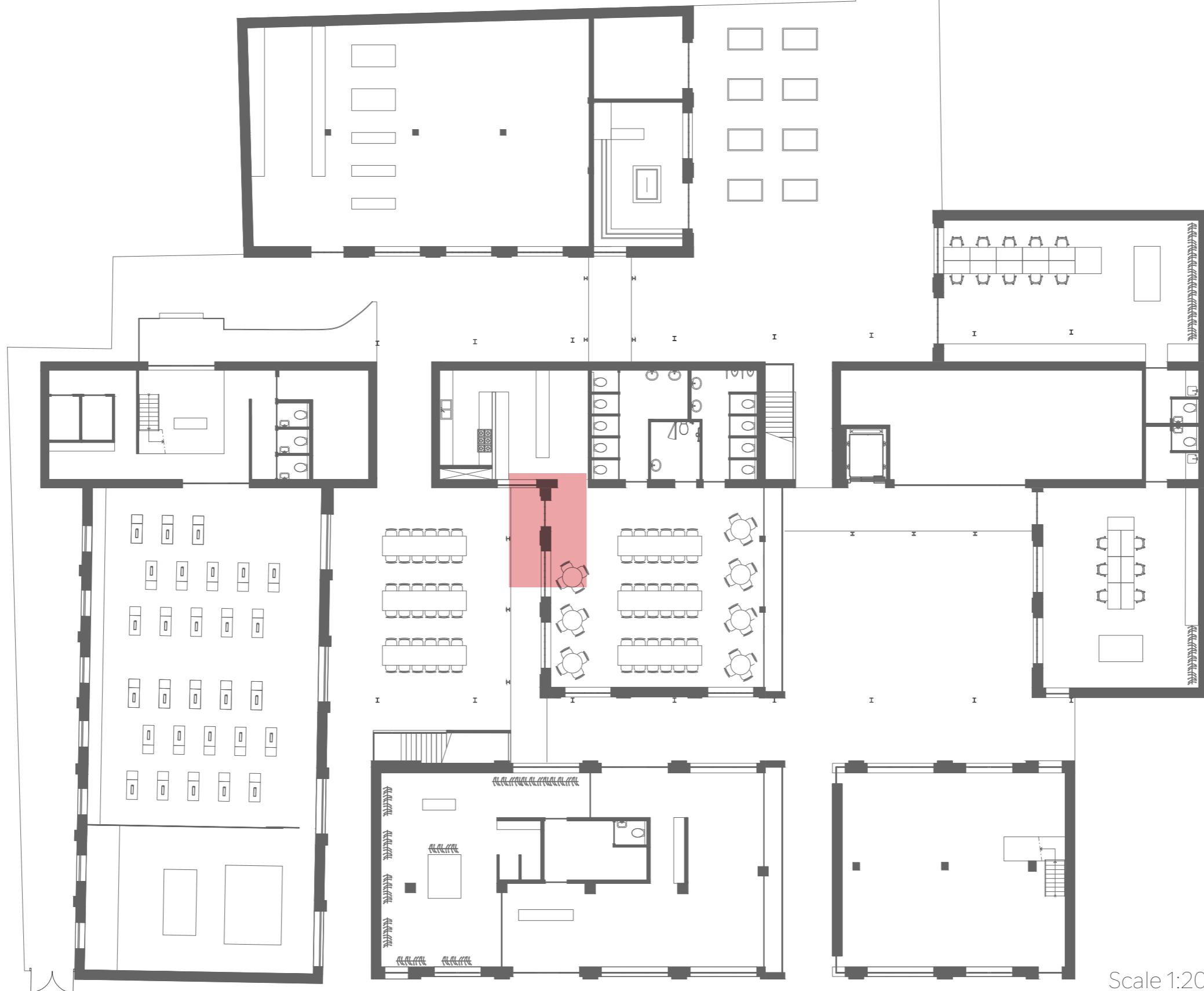


**Section B**  
Scale 1:150

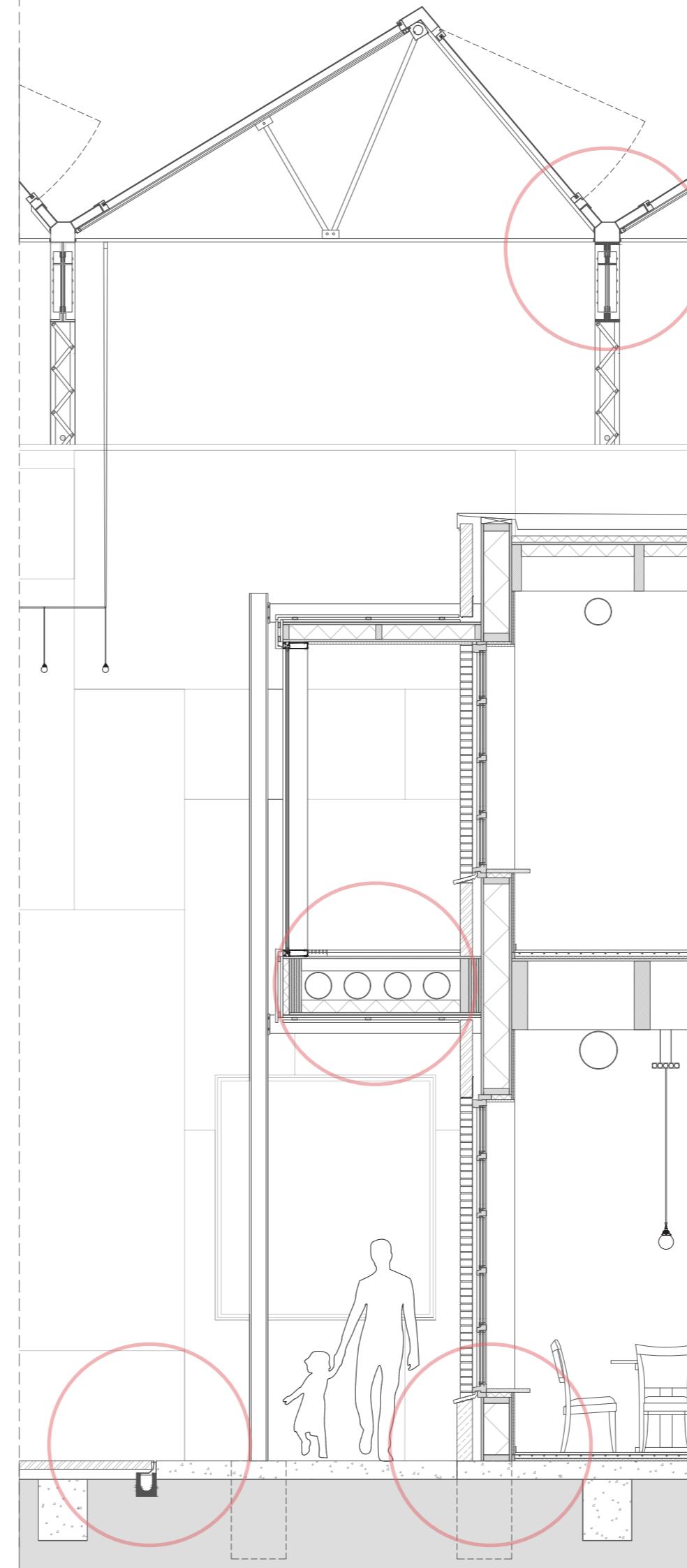
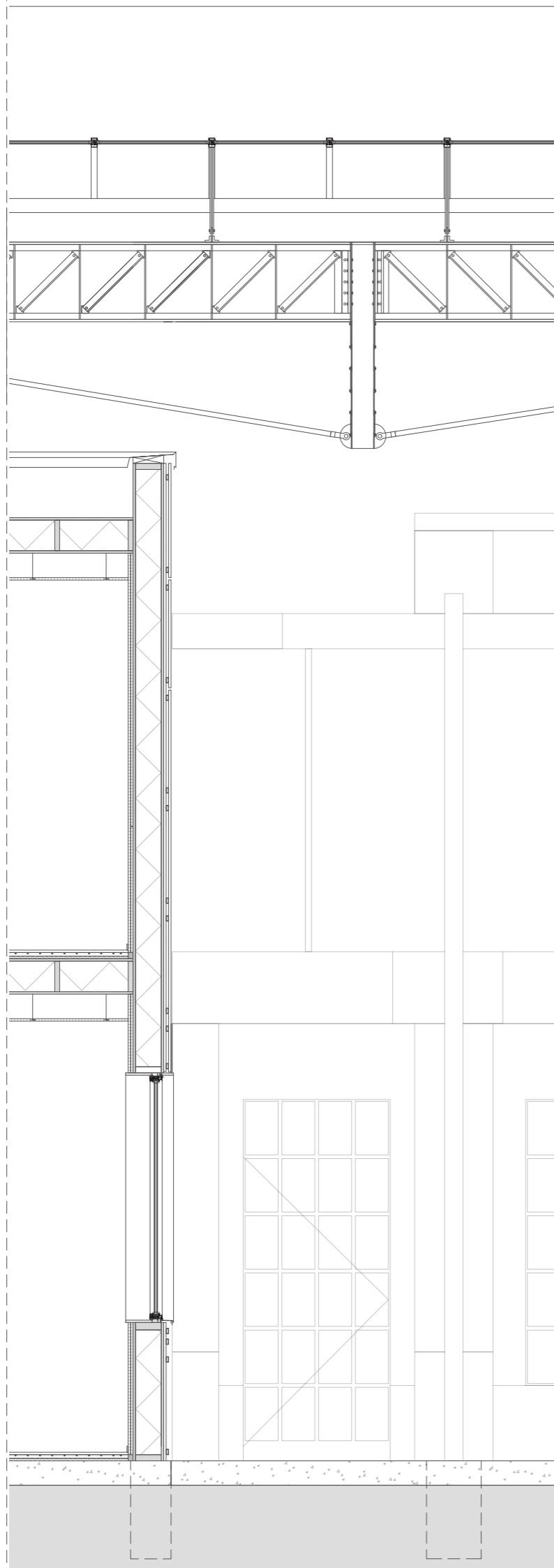




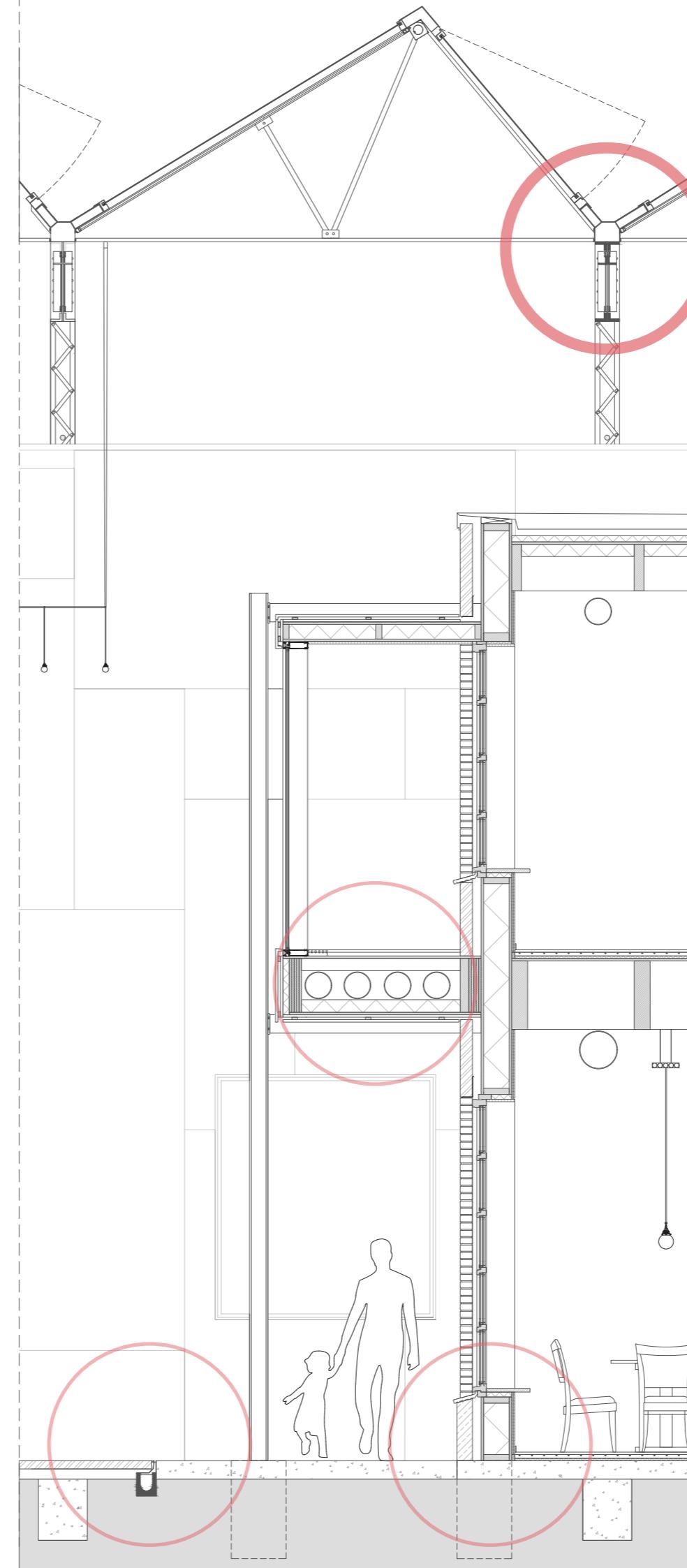
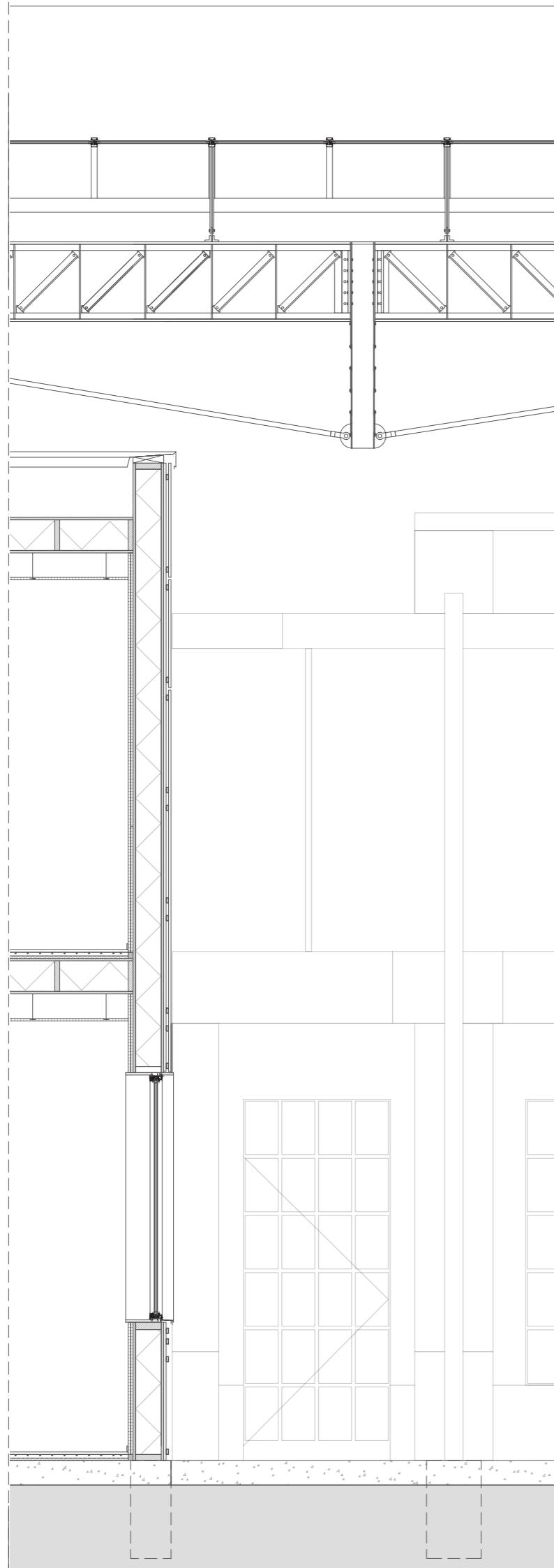




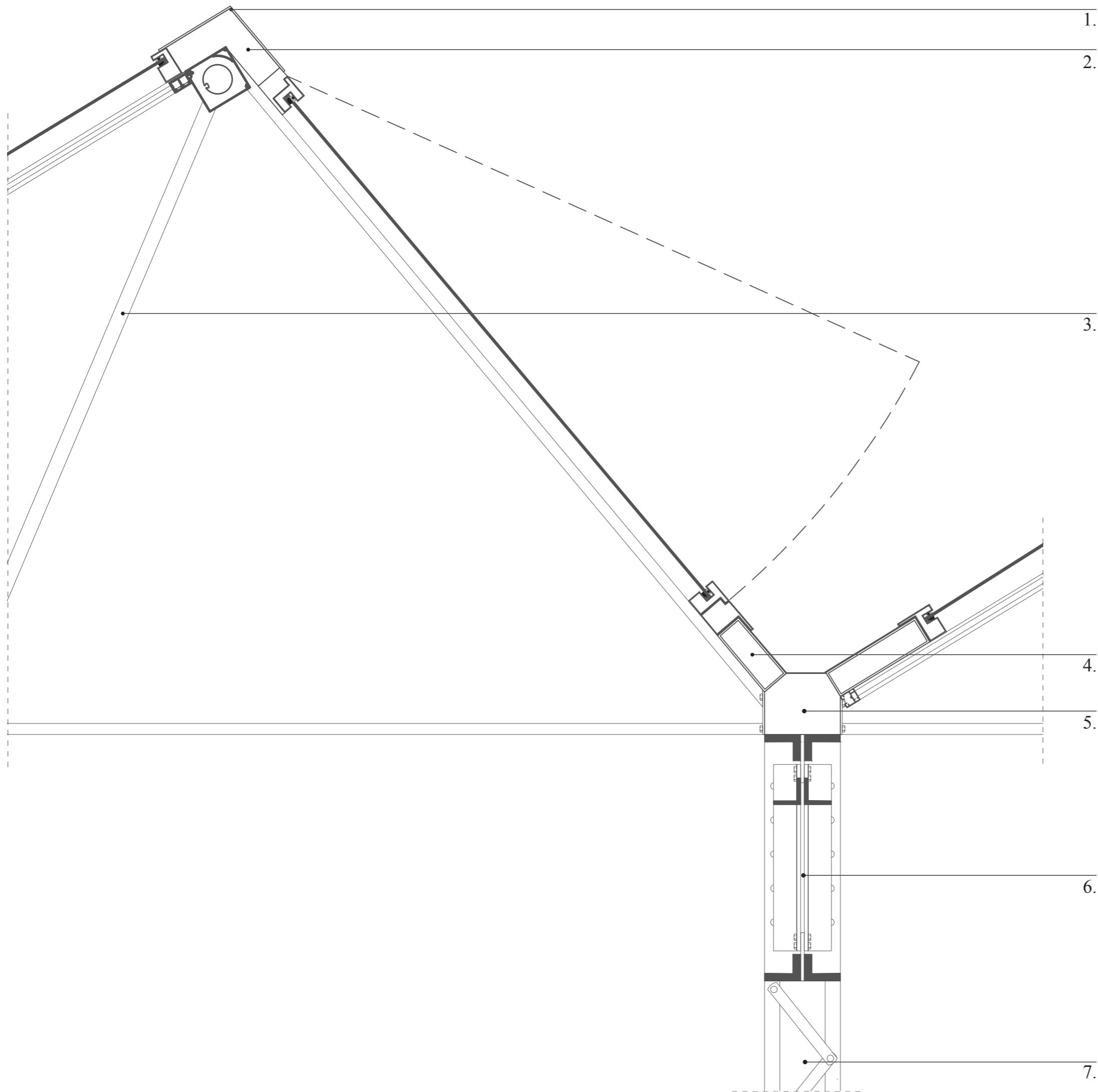
Scale 1:200



**Building fragment**  
Scale 1:40



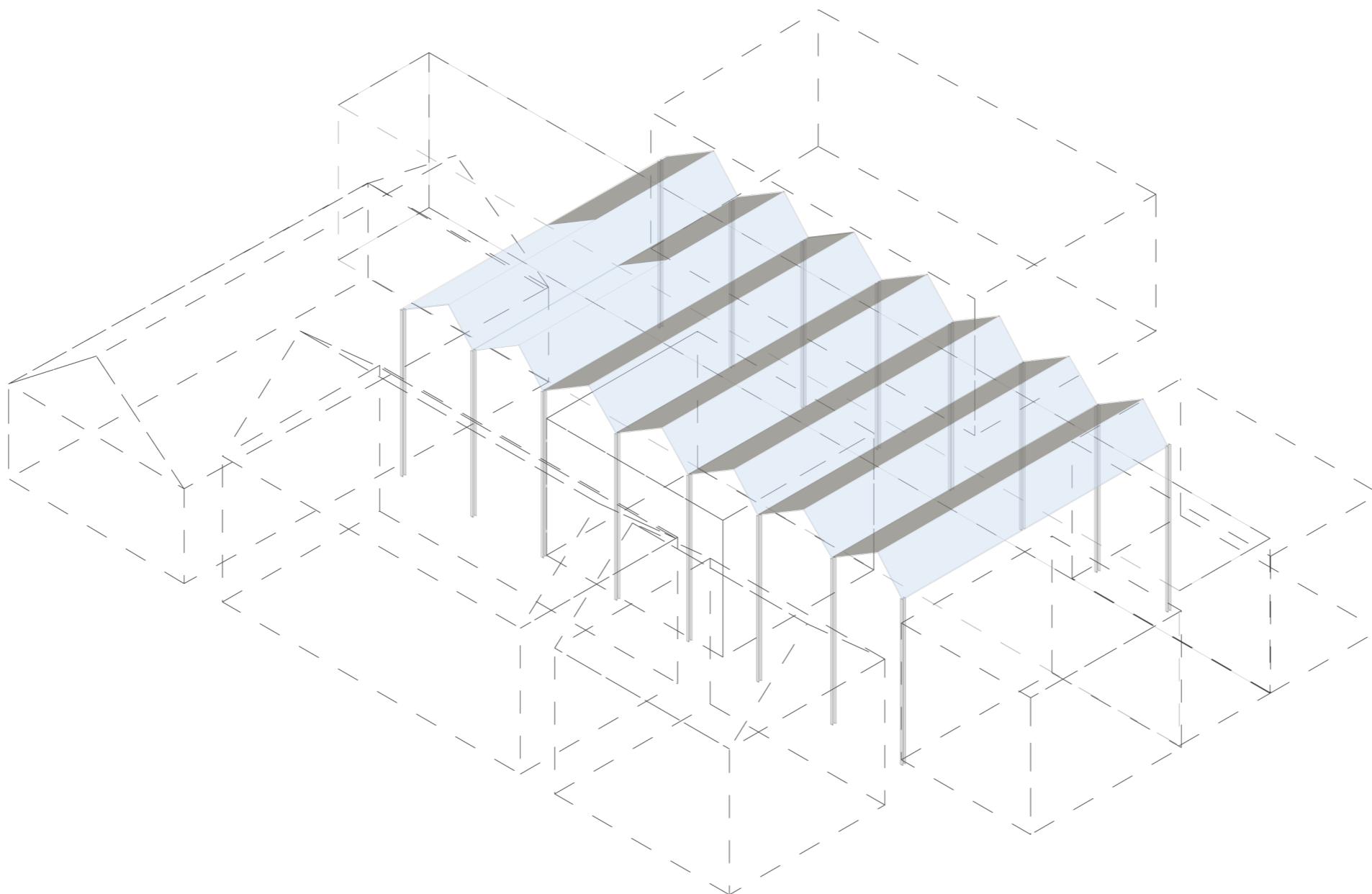
**Building fragment**  
Scale 1:40



Detail 1:  
the sawtooth roof

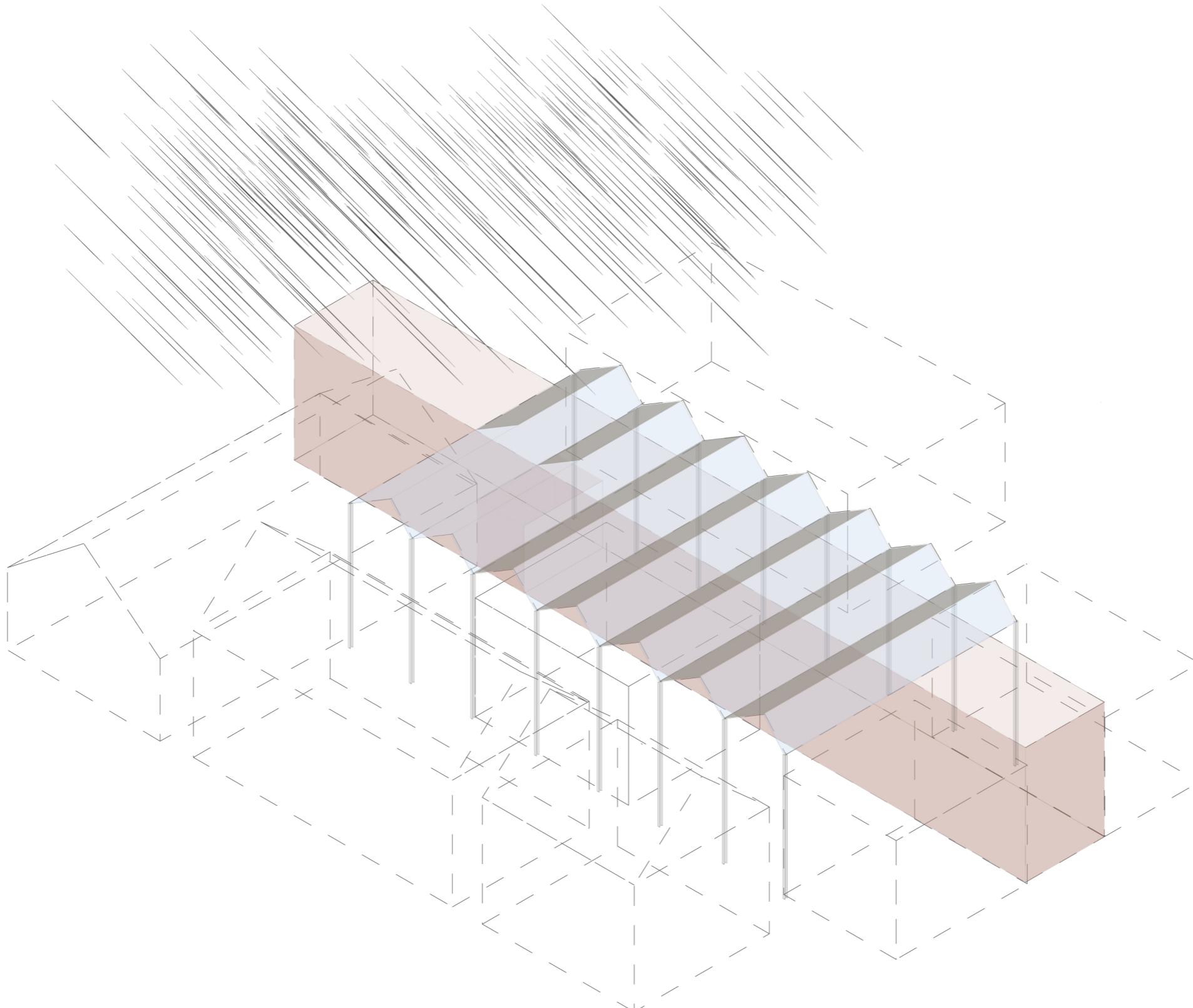
1. Finishing hood
2. Steel frame structure
3. Sawtooth roof structure
4. Steel frame structure
5. Steel frame, supporting gutter
6. Truss
7. Truss column

Scale 1:10



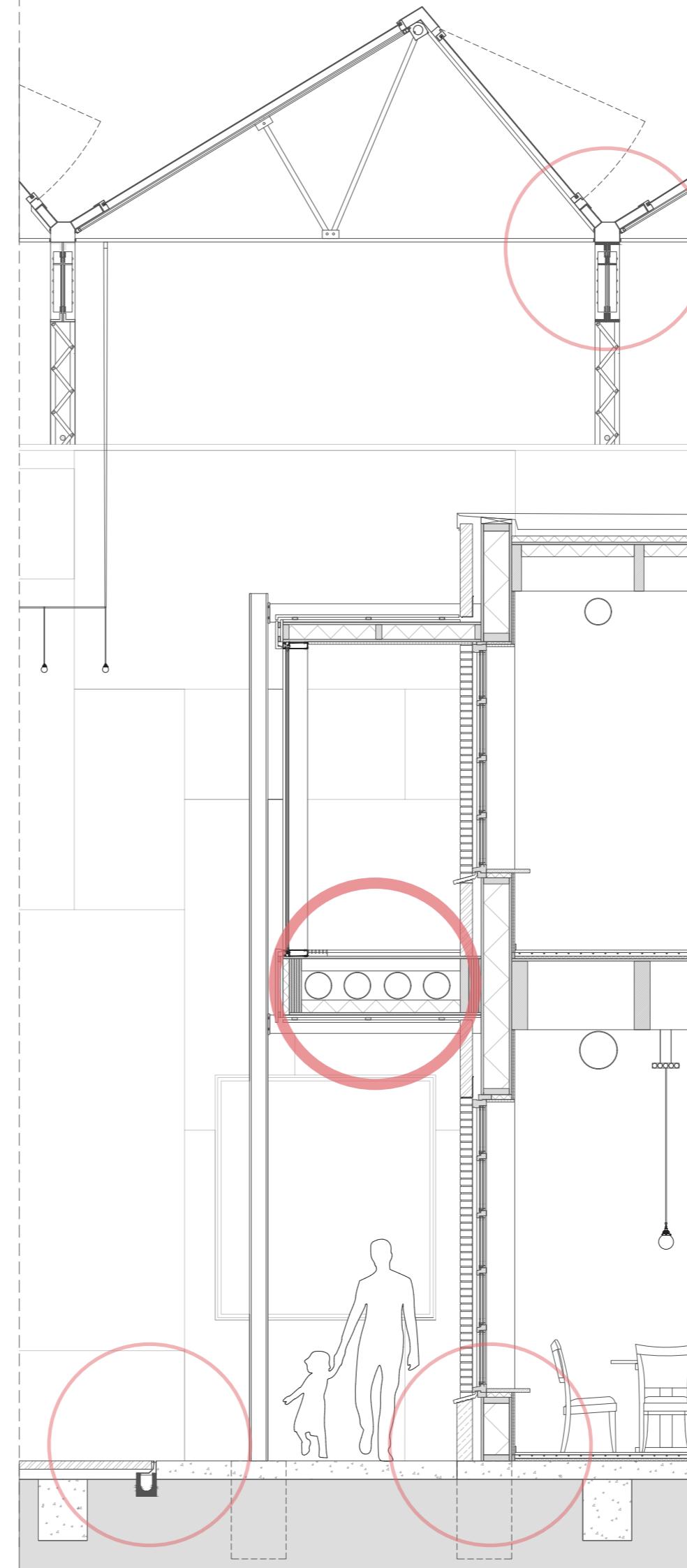
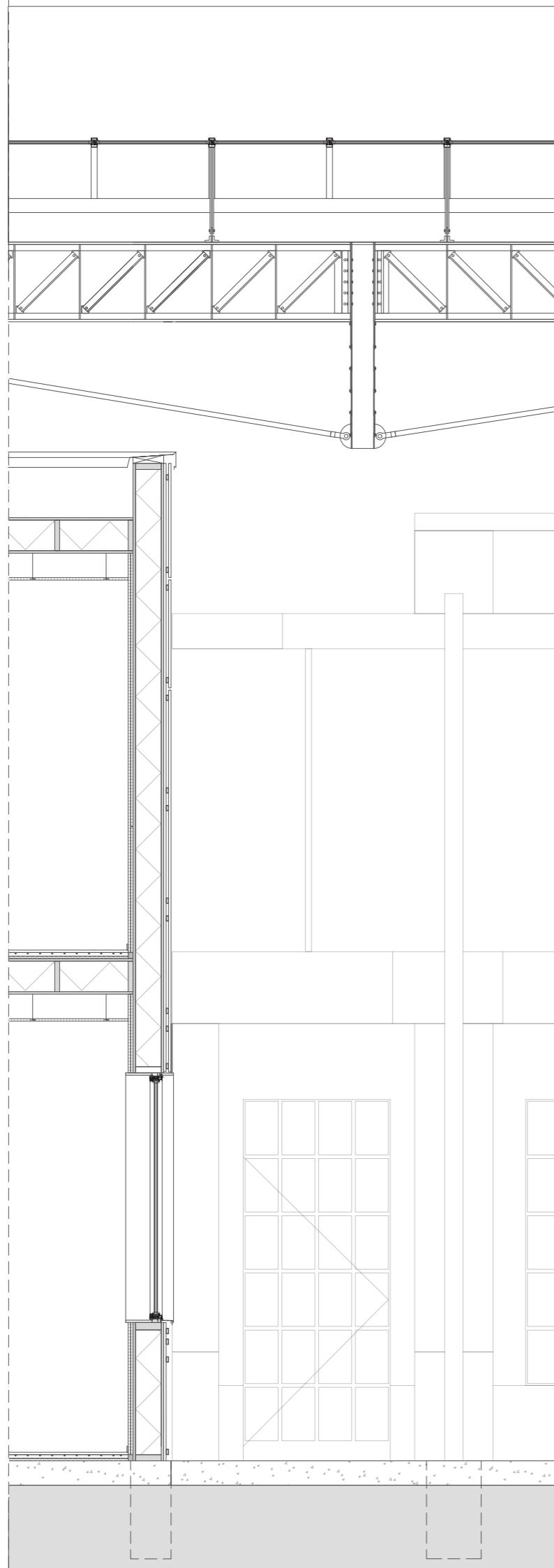
### Solar panels

The majority of the south facing side of the sawtooth roof is covered in solar panels. The panels generate approximately 3,638 kWh/Year.

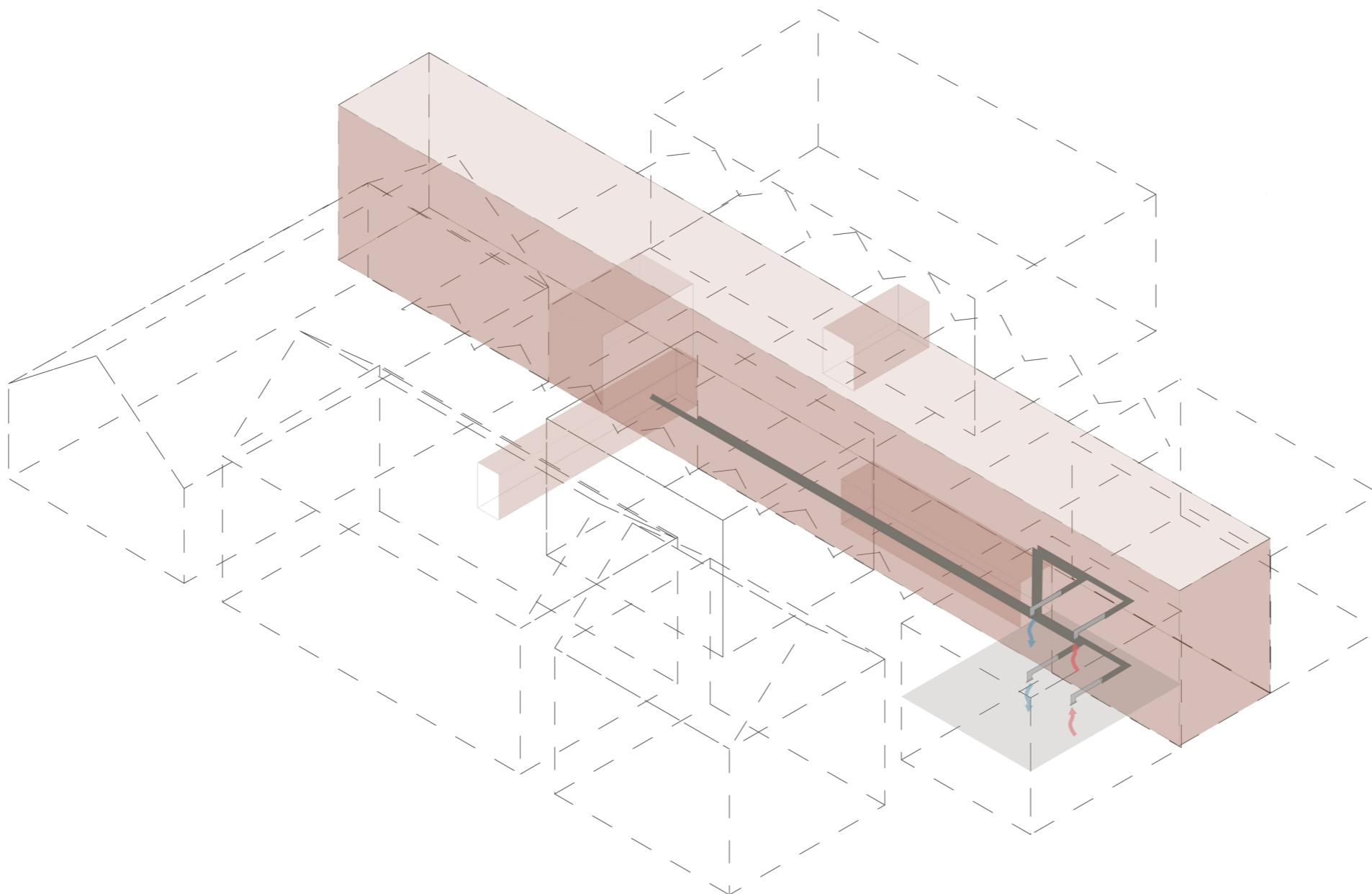


### Rainwater collection

The rainwater that falls on the sawtooth roof is collected. In London there is an average of 690mm/m<sup>2</sup> rainfall per year. This mean that 367.080 mm rainwater can be collected per year, which is equal to 367.080L per year. This water can be used to flush the toilets around 91.770 times.

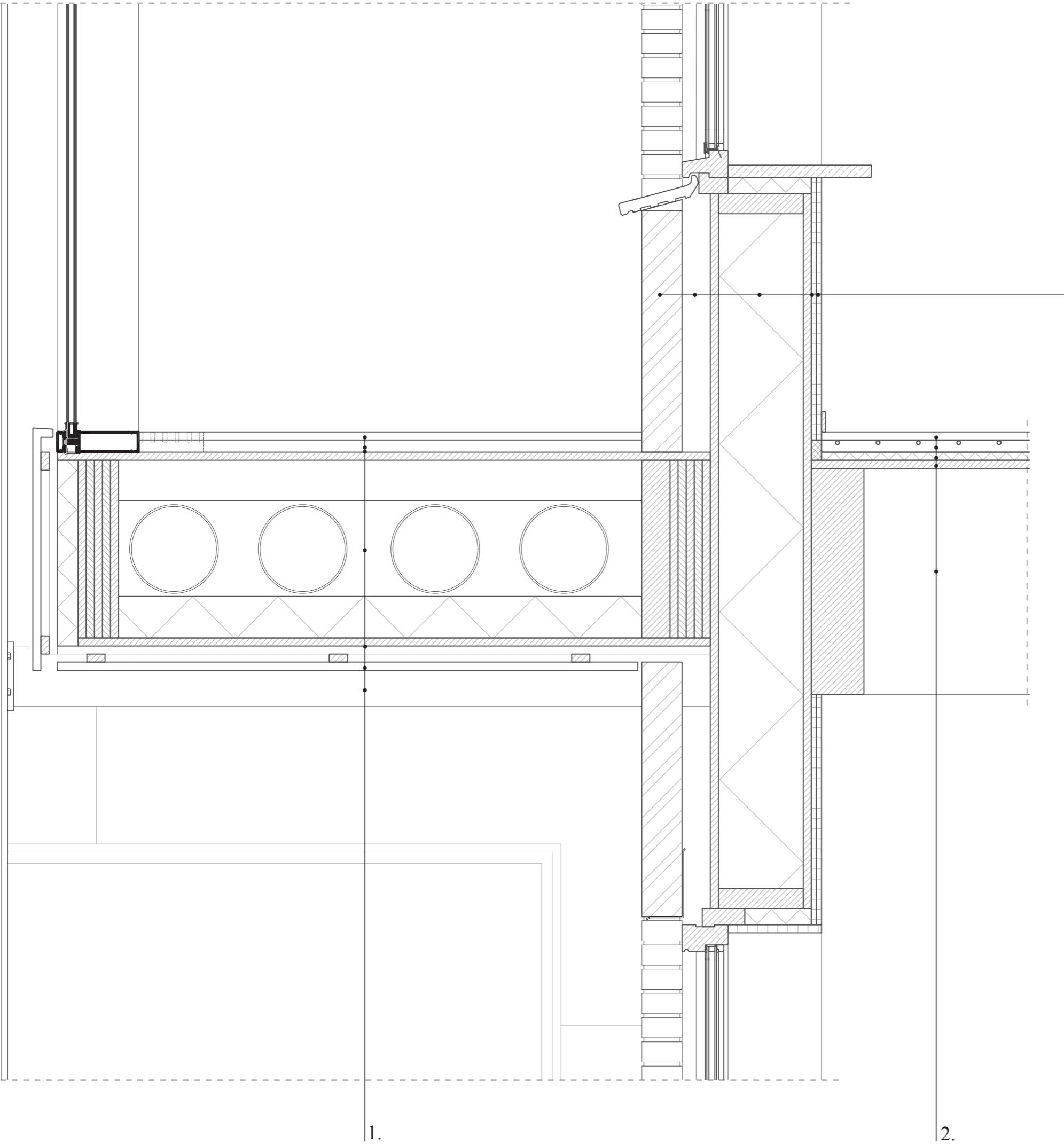


**Building fragment**  
Scale 1:40



### Ventilation

The rooms are all mechanically ventilated. The ventilation ducts are carried from the main technical room to the different building blocks through the tunnels. In the technical room there is a heat recovery installation.

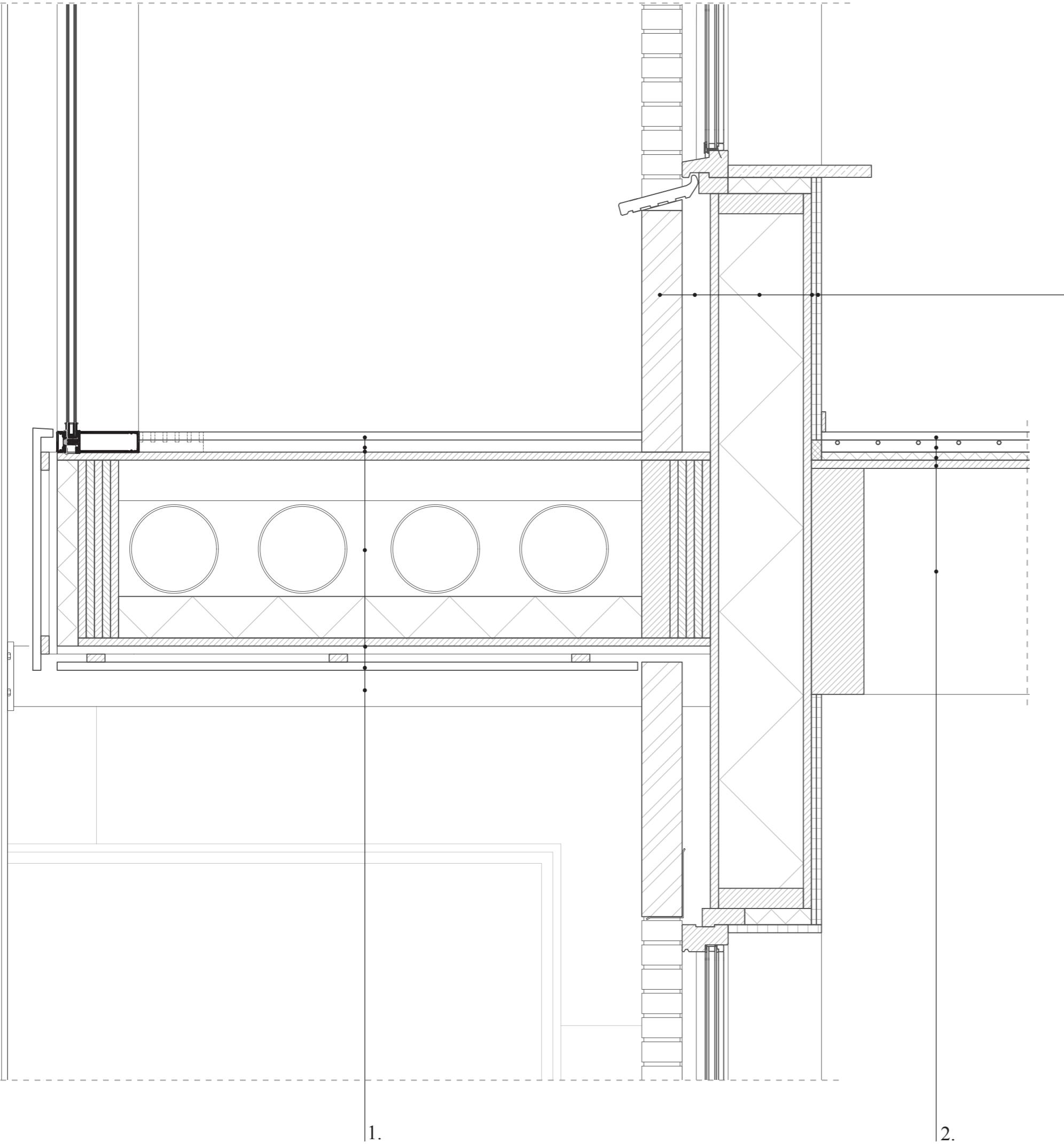


Detail 2:  
the tunnel

1.	Floor finishing Underfloor Vapor barrier Timber frame structure with insulation Waterretaining foil Trespa cladding attached to a 20 x 20 mm timber frame Rectangular structural tube	20 mm 30 mm 460 mm 20 mm 20 mm 150 mm
2.	Floor finishing Underfloor with heating / cooling Insulation Timber frame structure Glulam beam	20 mm 30 mm 20 mm 580 mm 560 mm
3.	Brickwork Cavity for ventilation Timber frame structure with mineral wool insulation Gypsum Plaster finish	100 mm 70 mm 250 mm 12,5 mm 12,5 mm

Scale 1:10

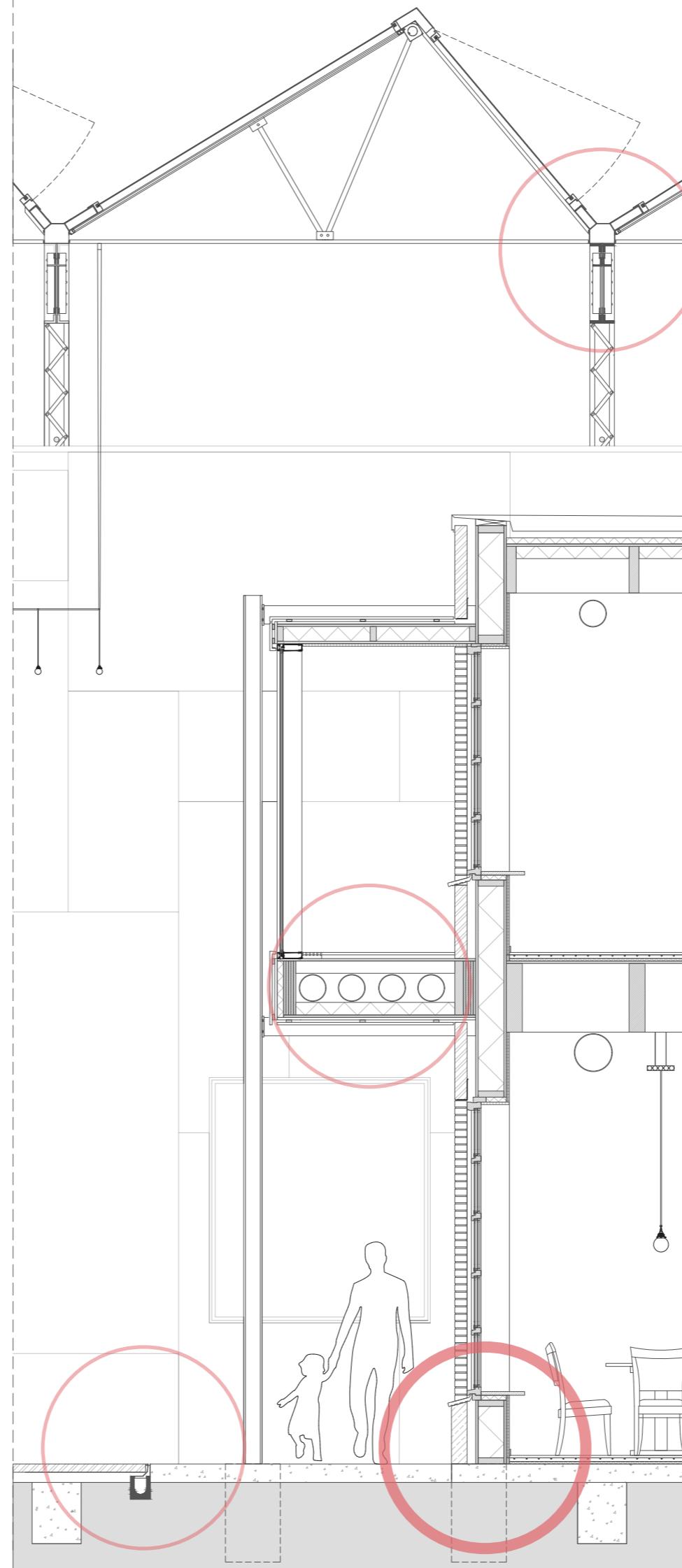
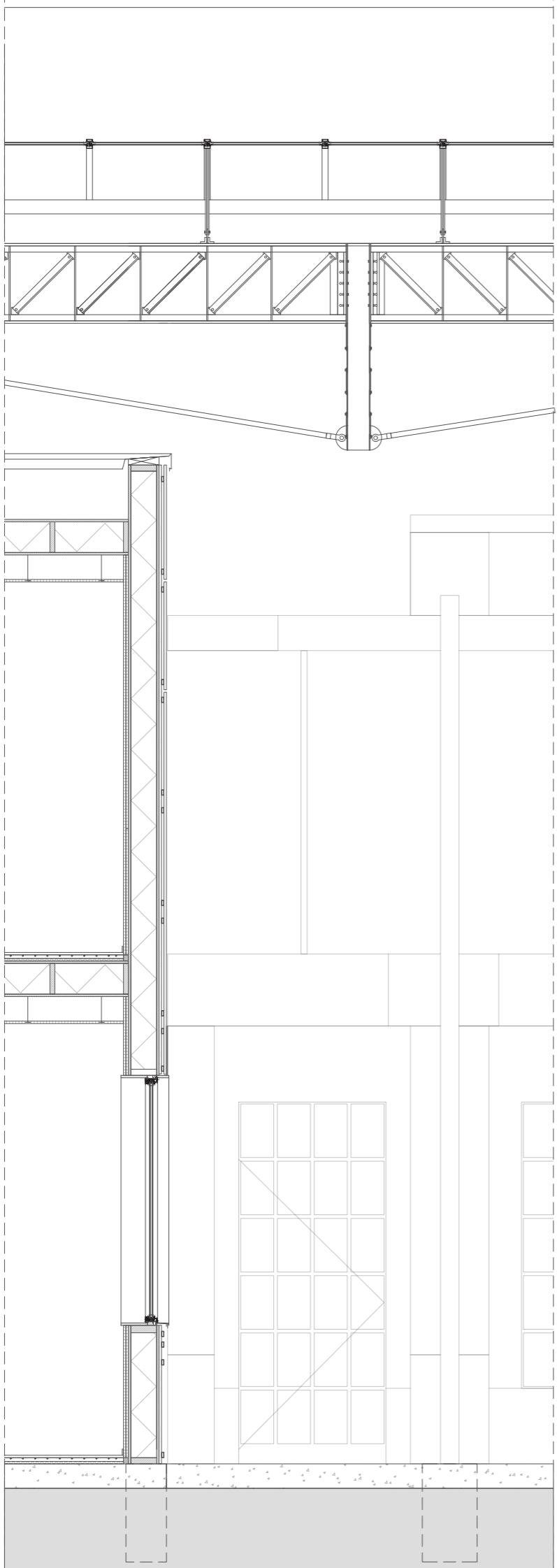




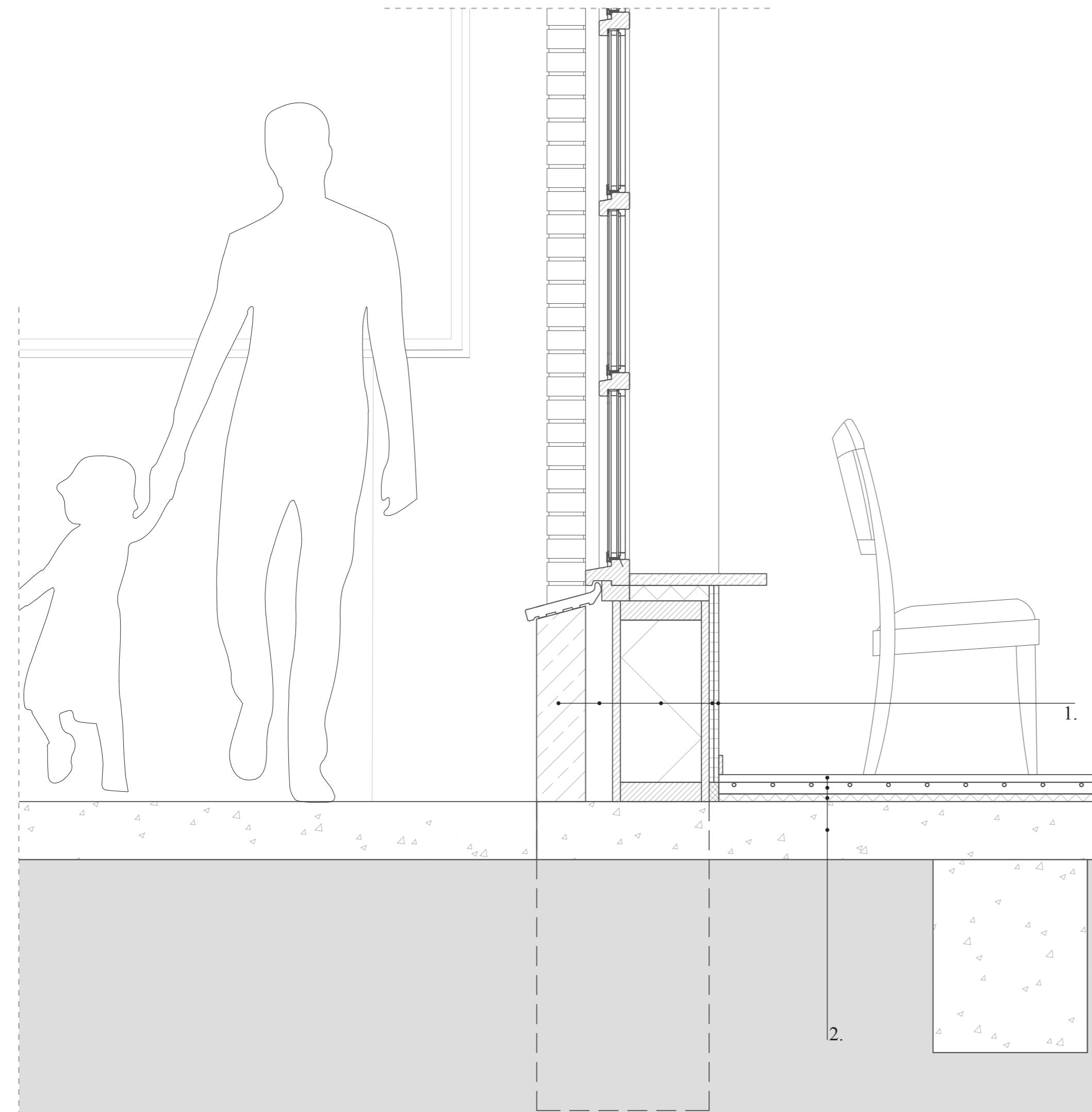
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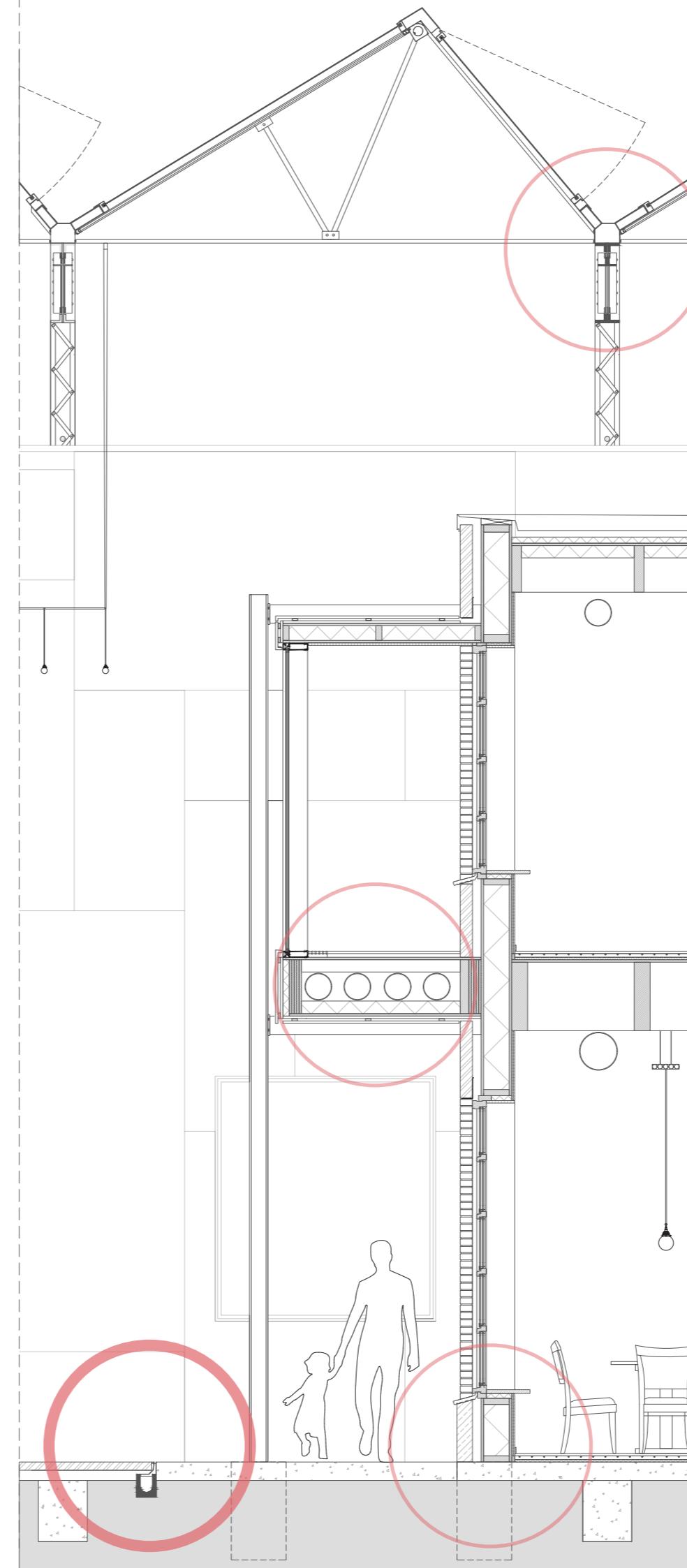
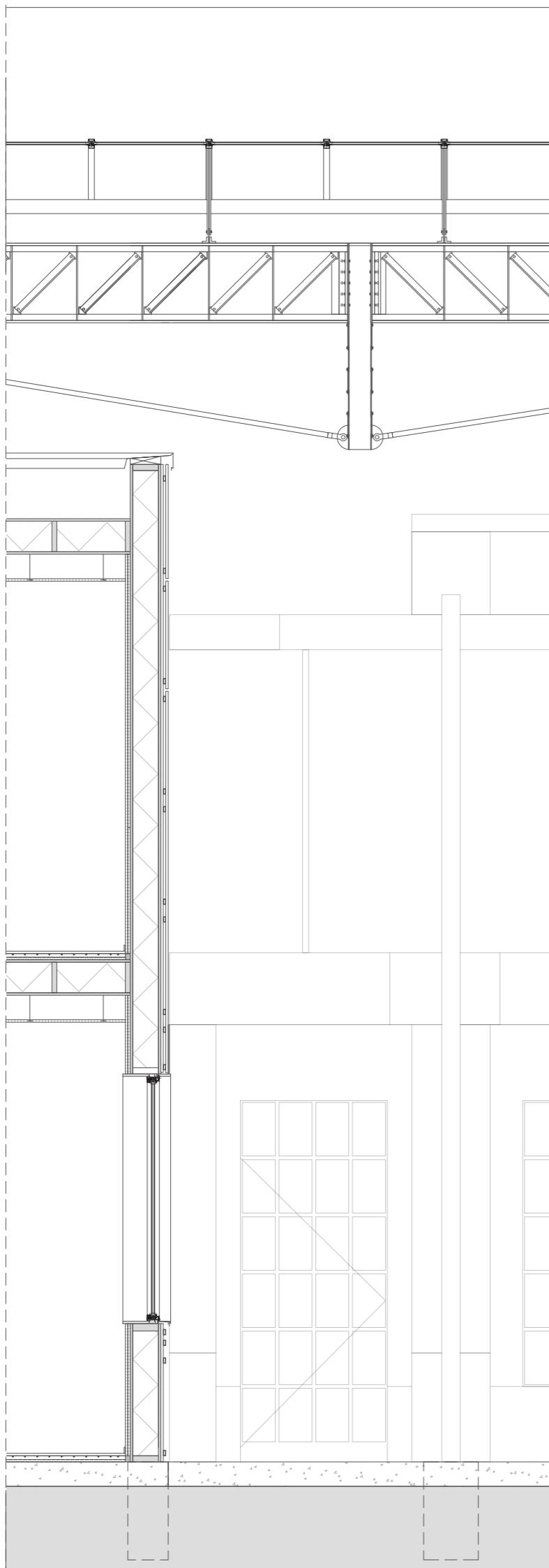
**Building fragment**  
Scale 1:40



Detail 3:  
the foundation

1.	Natural stone	130 mm
	Cavity for ventilation	70 mm
	Waterretaining foil	
	Timber frame structure with mineral wool insulation	250 mm
	Vapor barrier	
	Gypsum	12,5 mm
	Plaster finish	12,5 mm
2.	Floor finishing	20 mm
	Underfloor with heating / cooling	30 mm
	Acoustic insulation	20 mm
	Concrete floor	200 mm

Scale 1:10



**Building fragment**  
Scale 1:40

Detail 4:  
the square

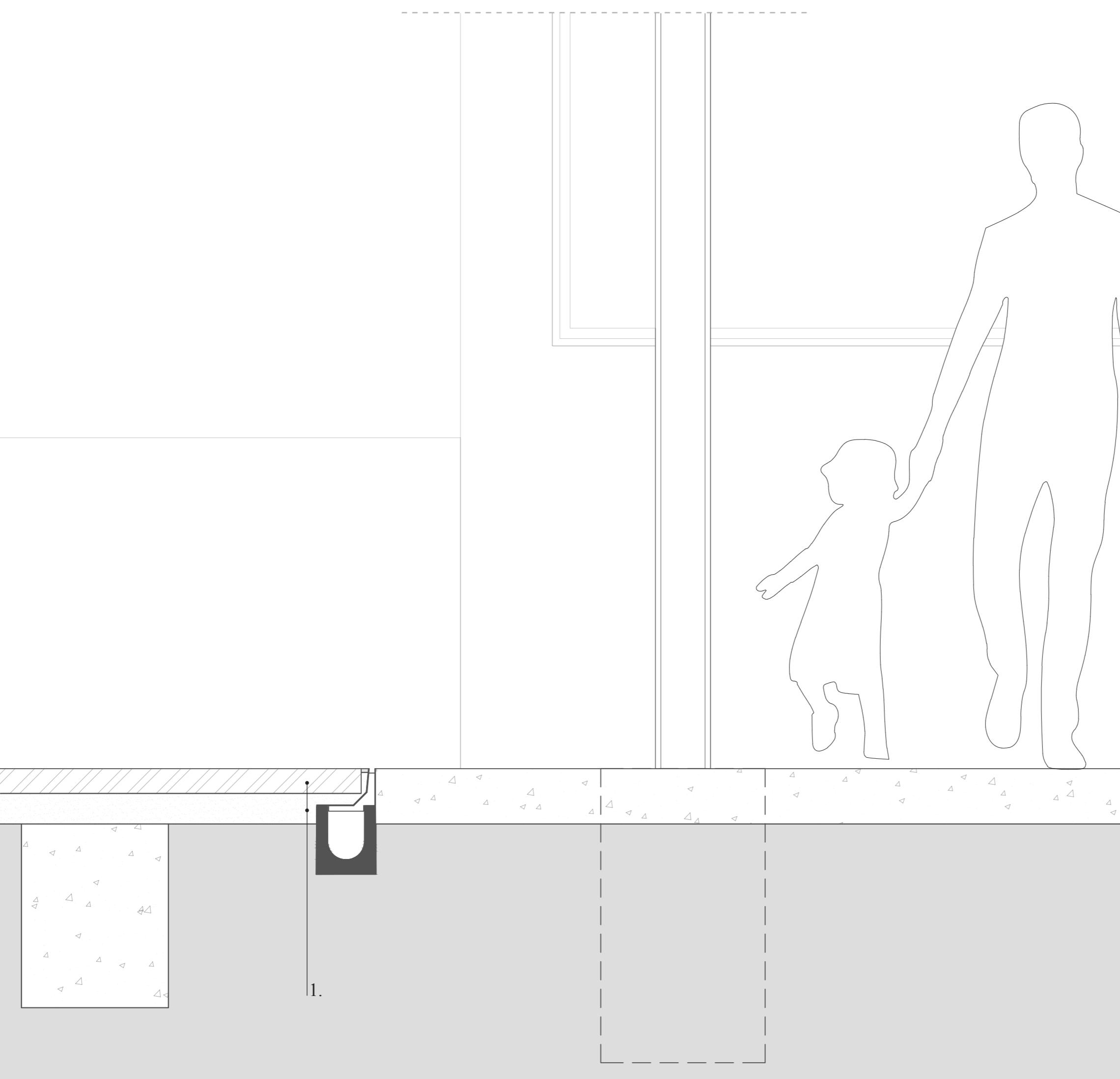
1.  
Dik format clinkers  
herringbone bandage  
Sand

67 mm  
133 mm

Scale 1:10

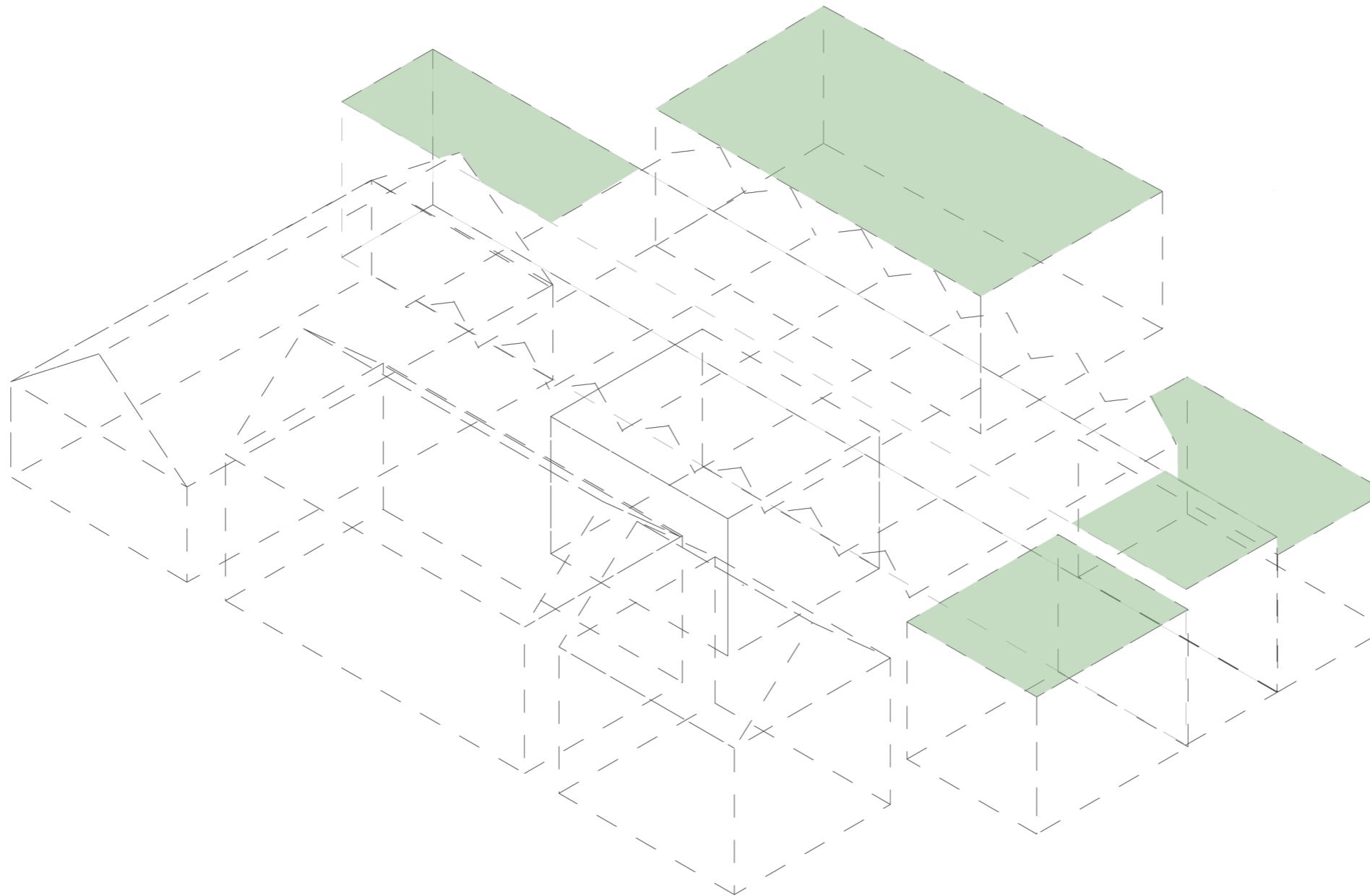
85

1.







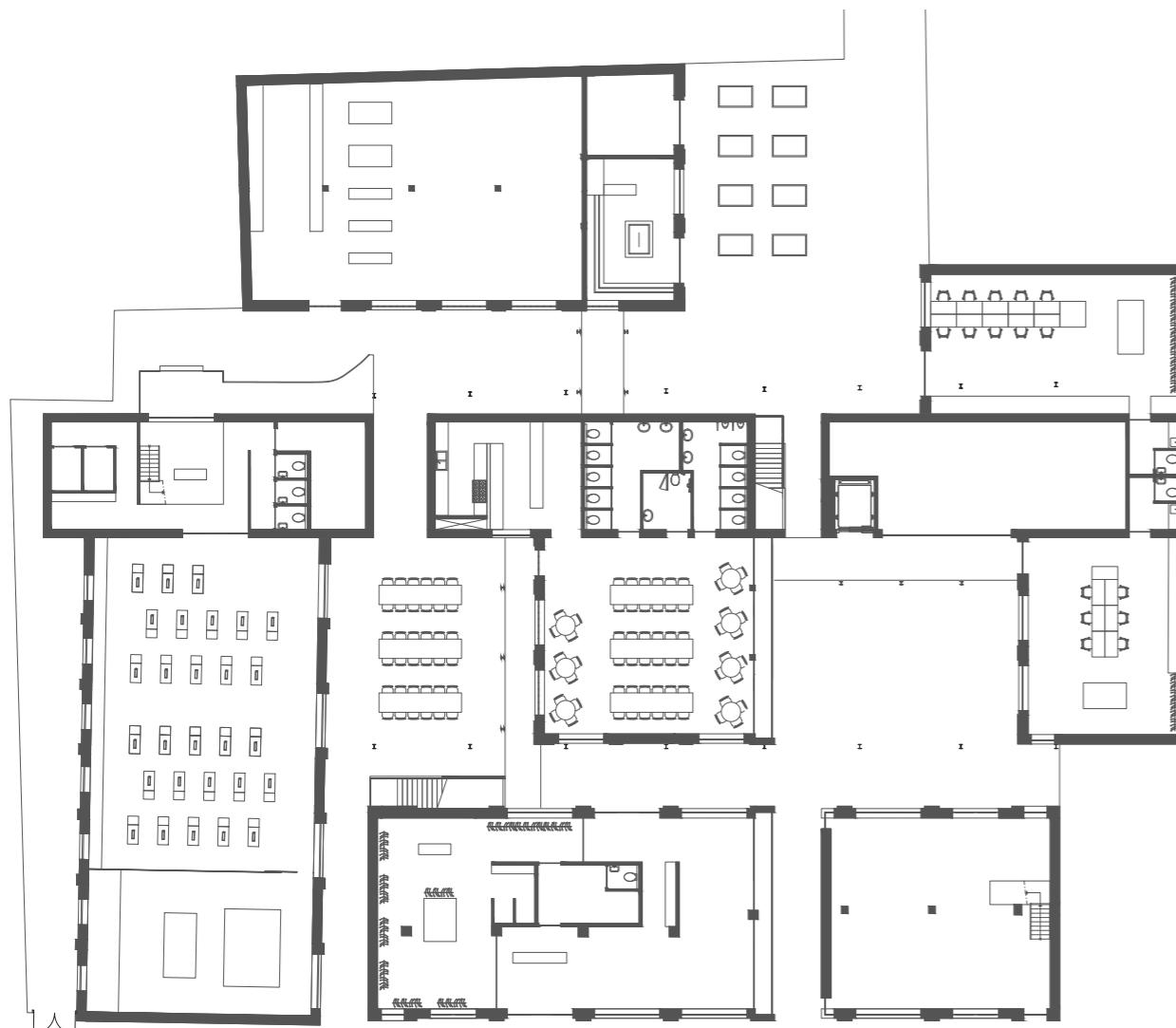


**Green rooftops**

reversibility | flexibility | adaptability

reversibility | flexibility | adaptability

reversibility | flexibility | adaptability



Ground floor plan



First floor plan

### Scenario 1

The program as it was described in the design assignment, with a more or less even distribution between business, education and community.





Ground floor plan



First floor plan

**Scenario 2**

The design assignment fails, clothing manufacturing and education makes place for (flexible) work spaces.





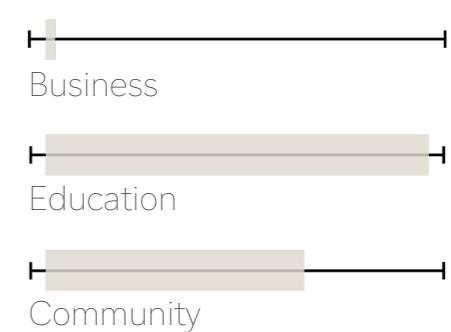
Ground floor plan



First floor plan

### Scenario 3

The project thrives and the manufacturing company moves to another location. Now there is more space for education.





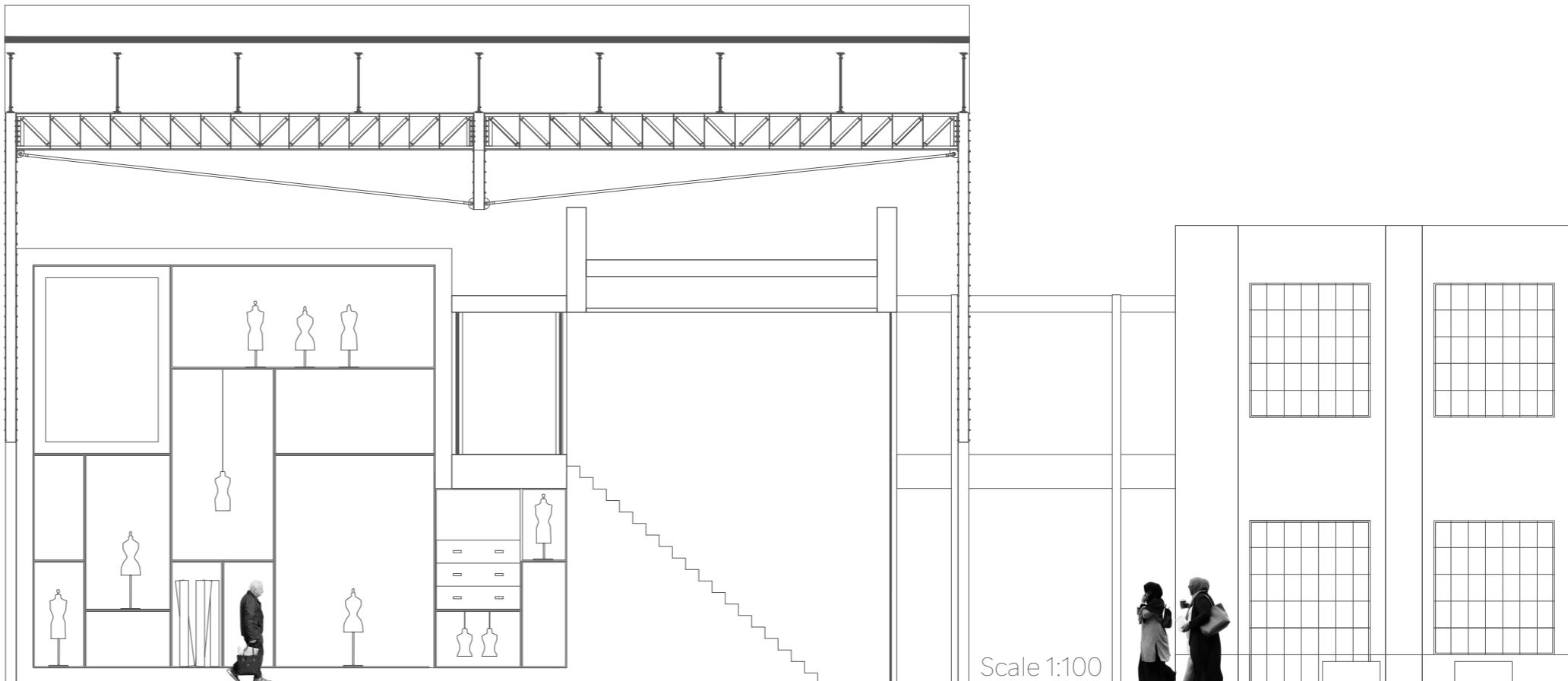
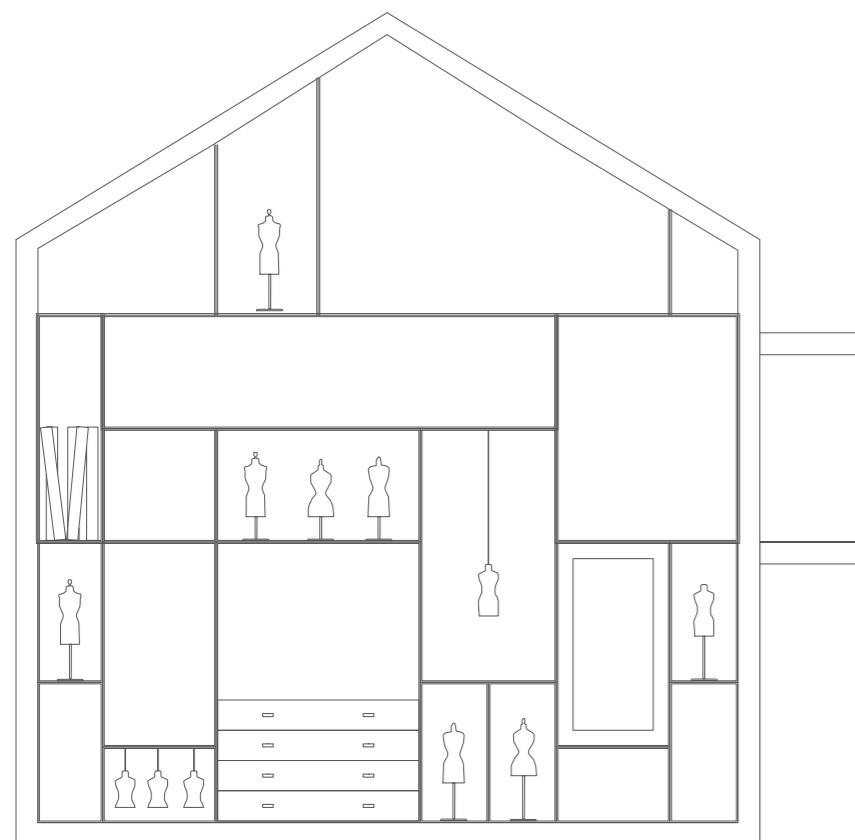
Original facade Hertford Road

Scale 1:200



New facade Hertford Road

Scale 1:200



Scale 1:100



**Thank you for your attention**

QUESTIONS?