

Inhabited Walls Clarisse Leung

Mentors: Willemijn Wilms Floet, Niels Tilanus, Willie Vogel Studio: Methods of Analysis and Imagination Site: Tallinn, Estonia

Research

Design

Construction

Conclusions

Research

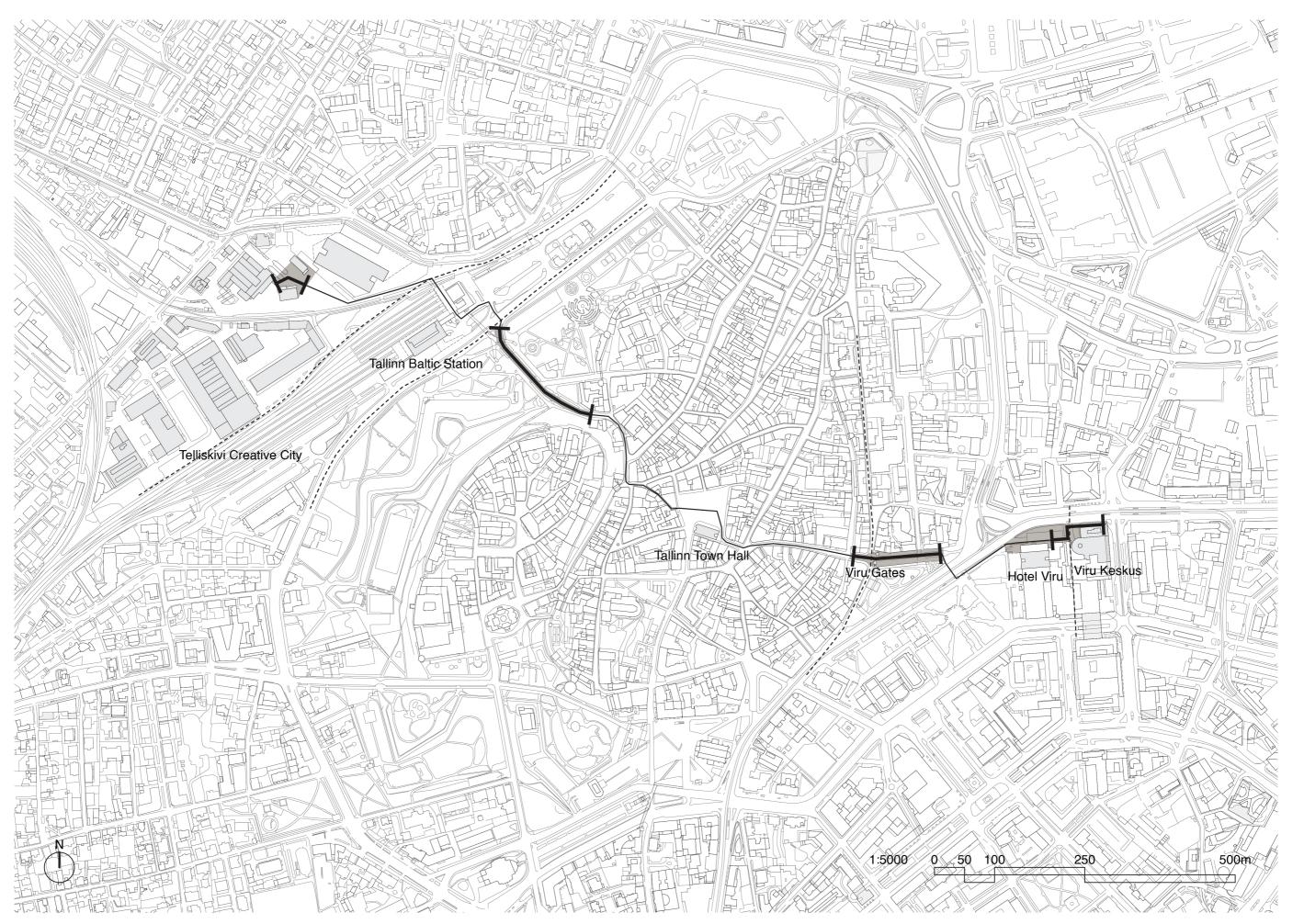
Design

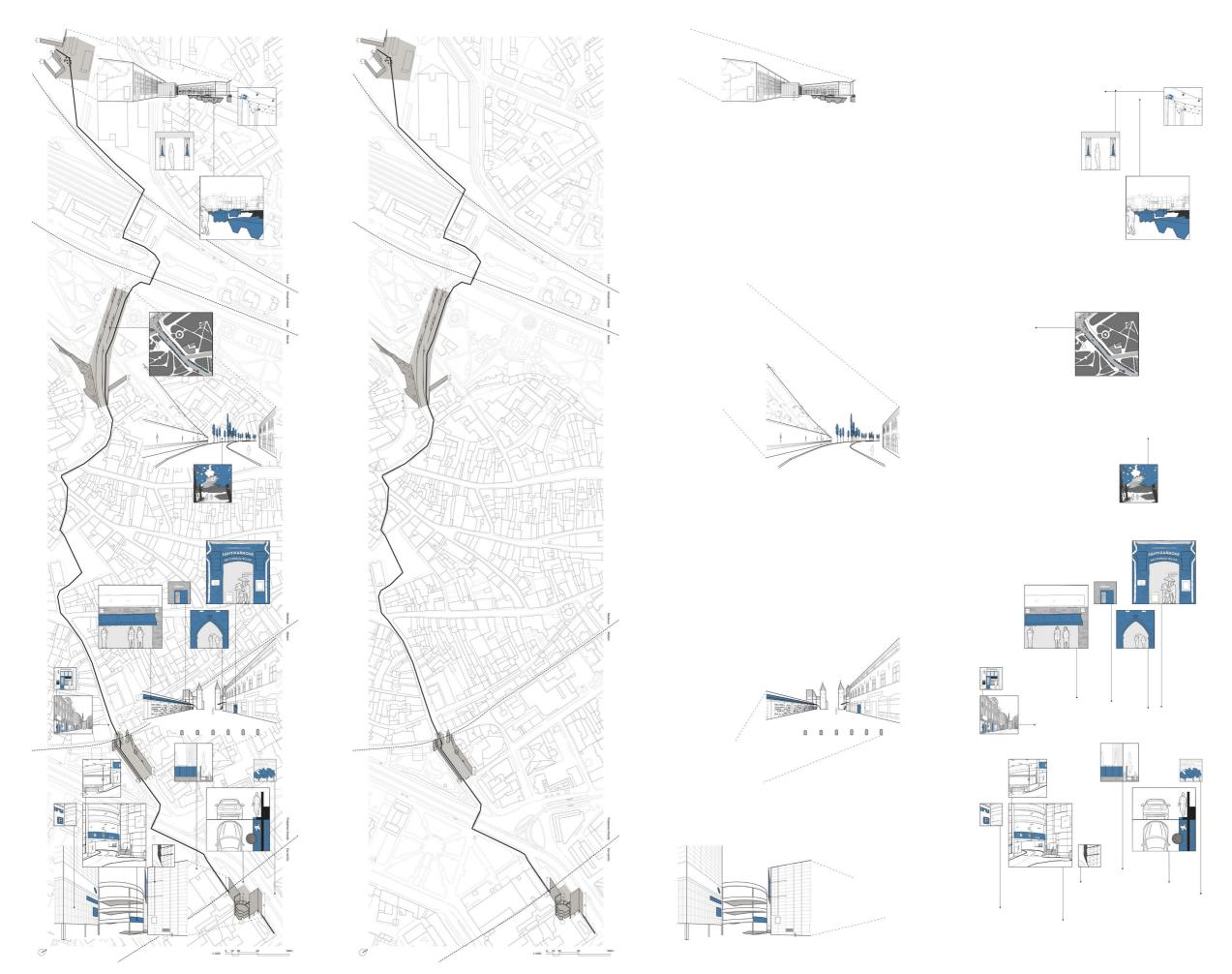
Construction

Conclusions

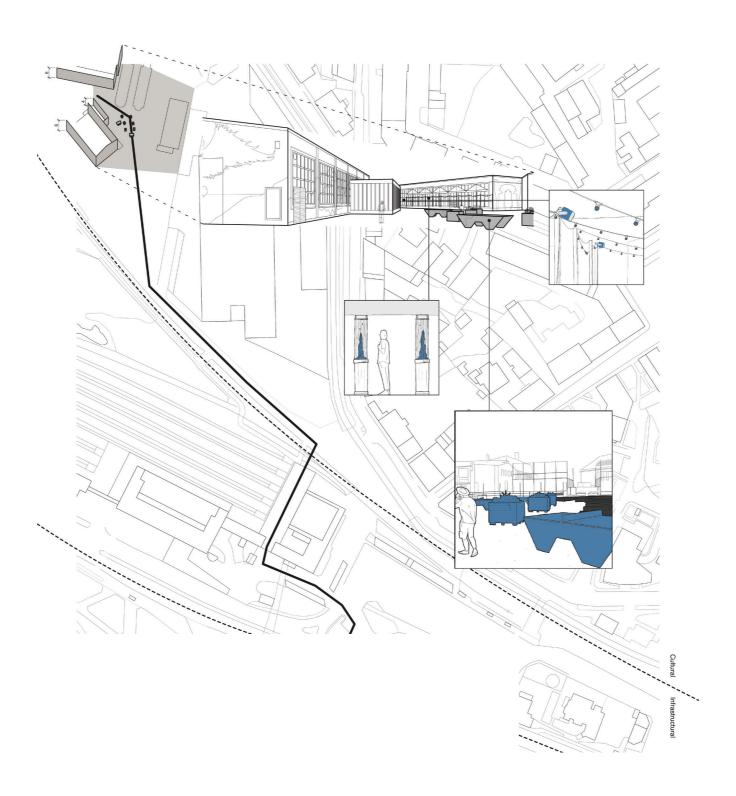
Contextual analysis: thresholds

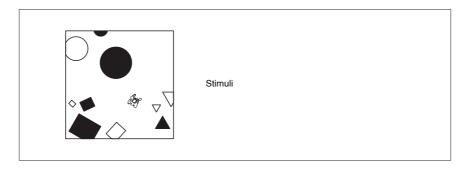
Pair work with Dharvish Aubeeluck

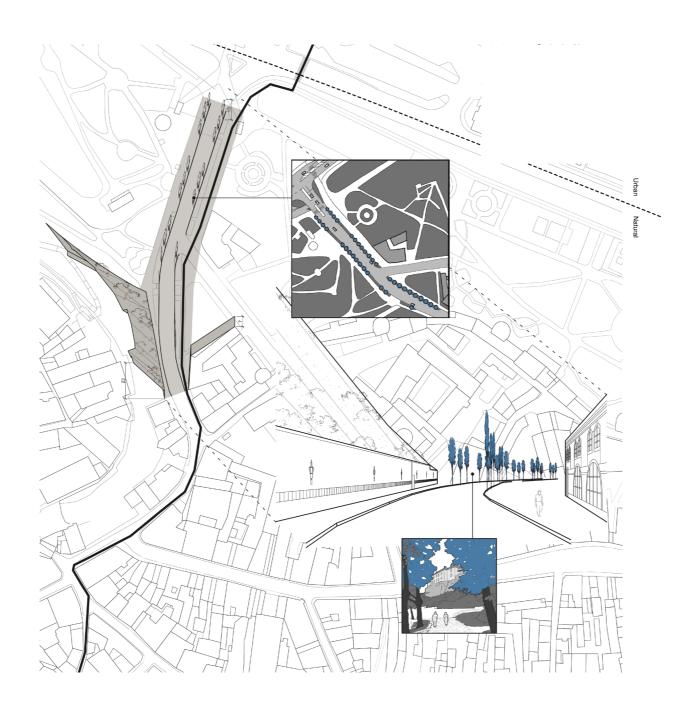


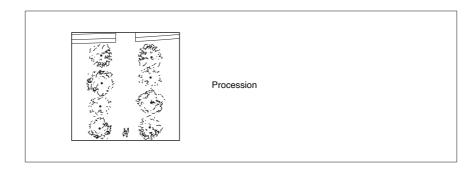


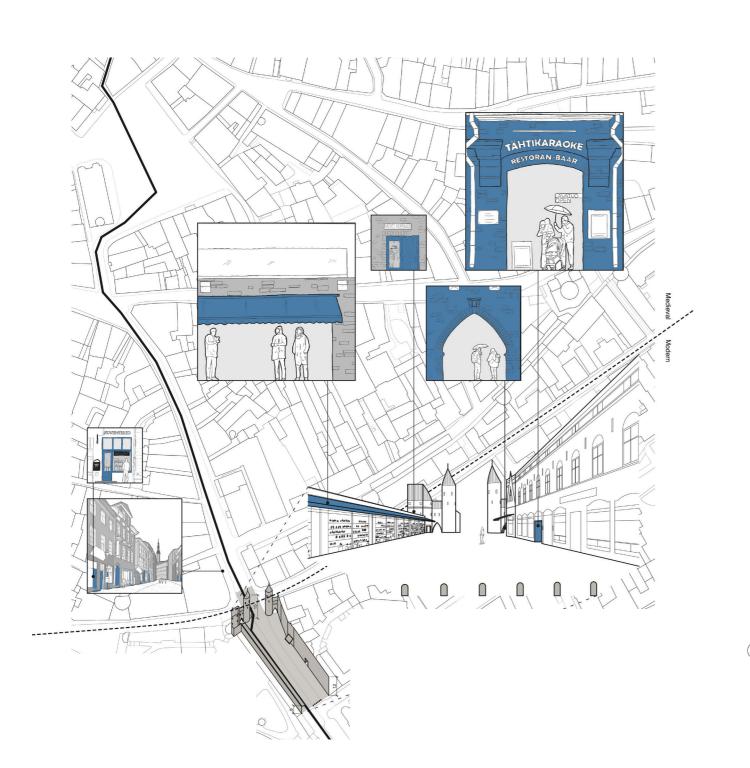
Full layered drawings of four thresholds on a route from Viru shopping mall to Telliskivi Creative City

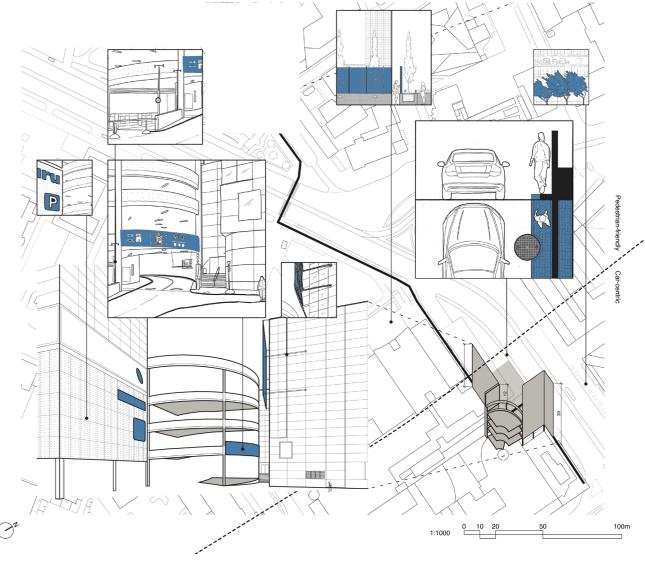


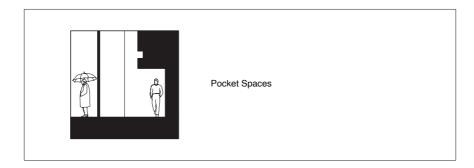


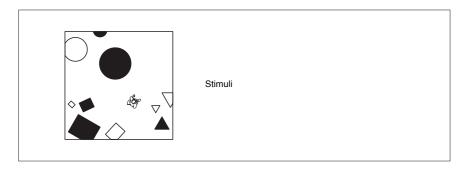


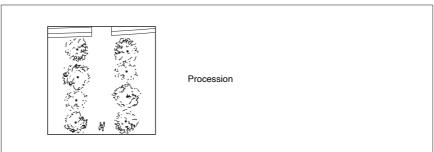


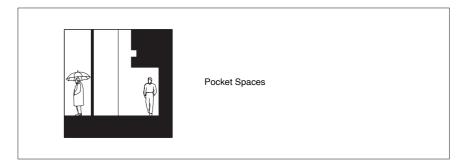








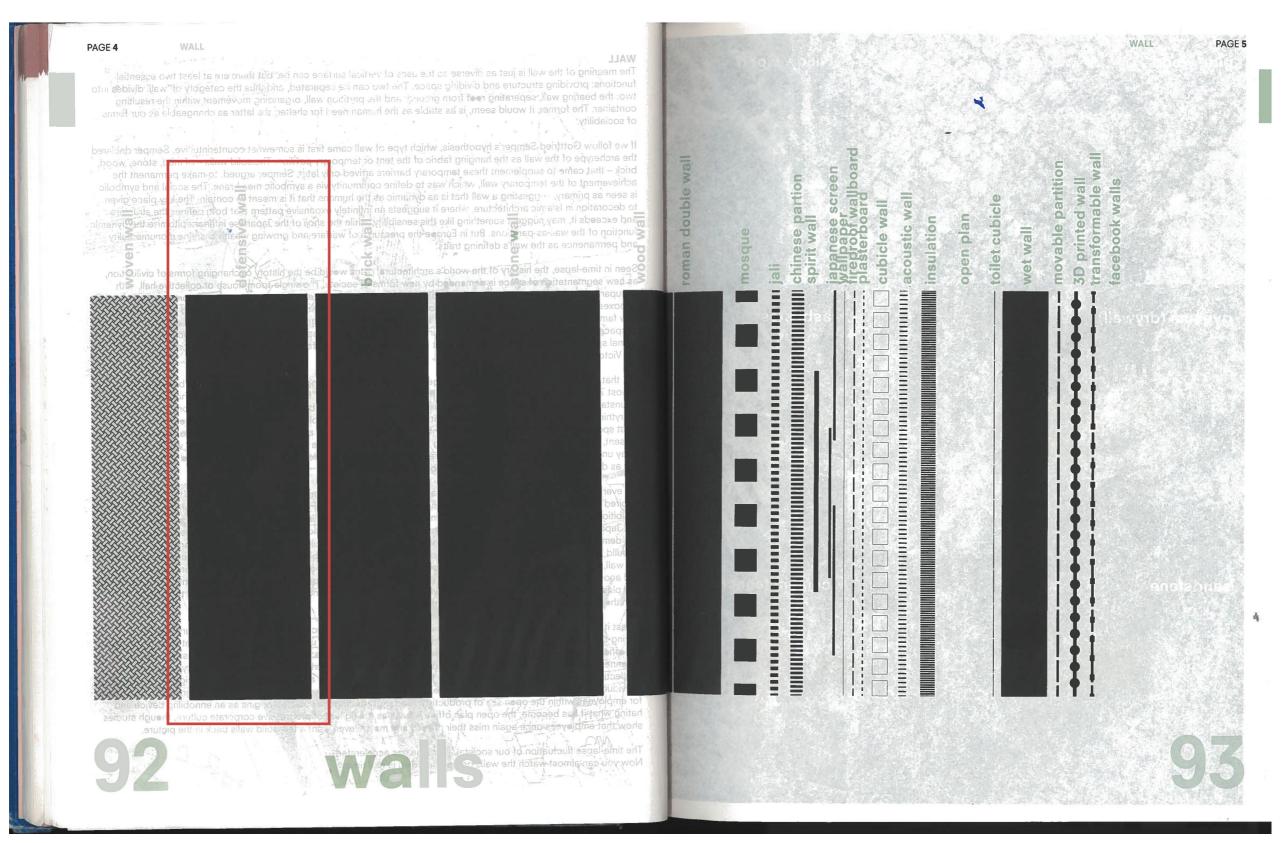




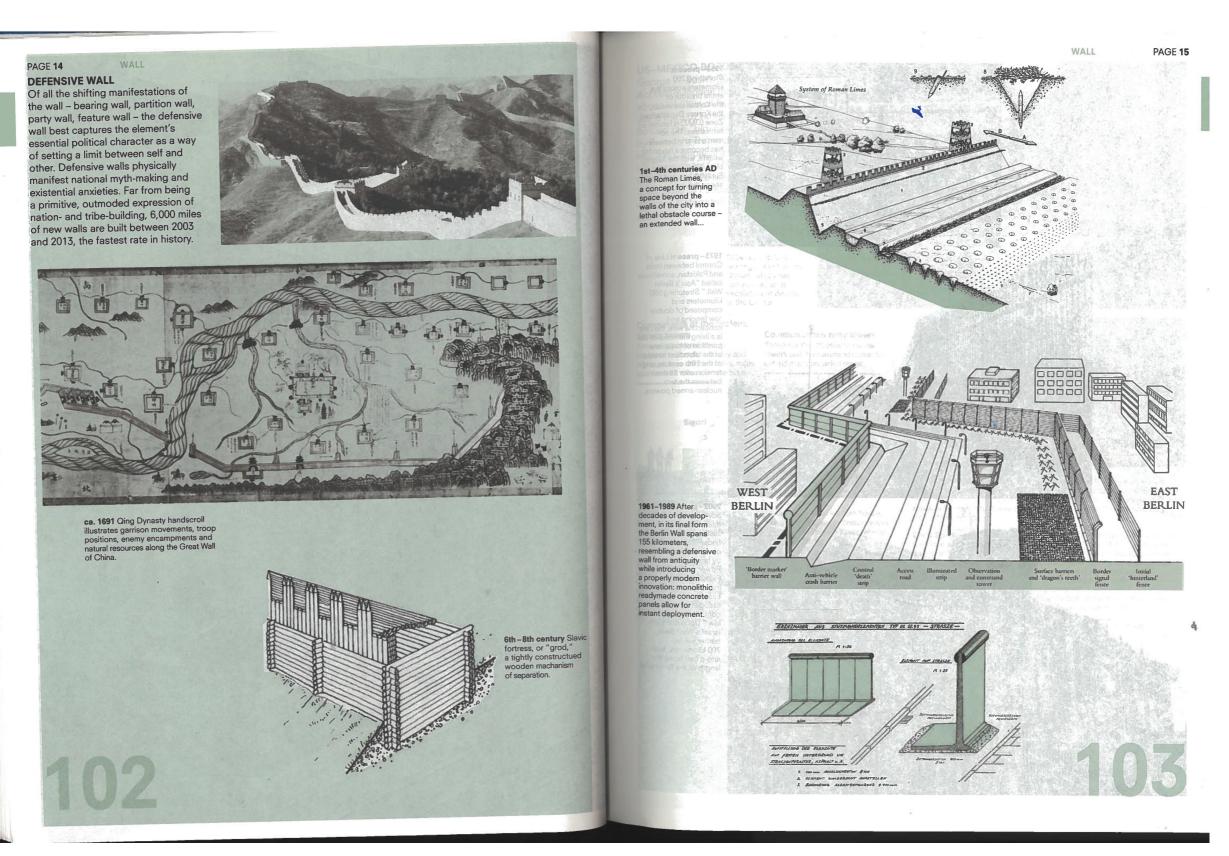
Disciplinary analysis: city wall

City wall:

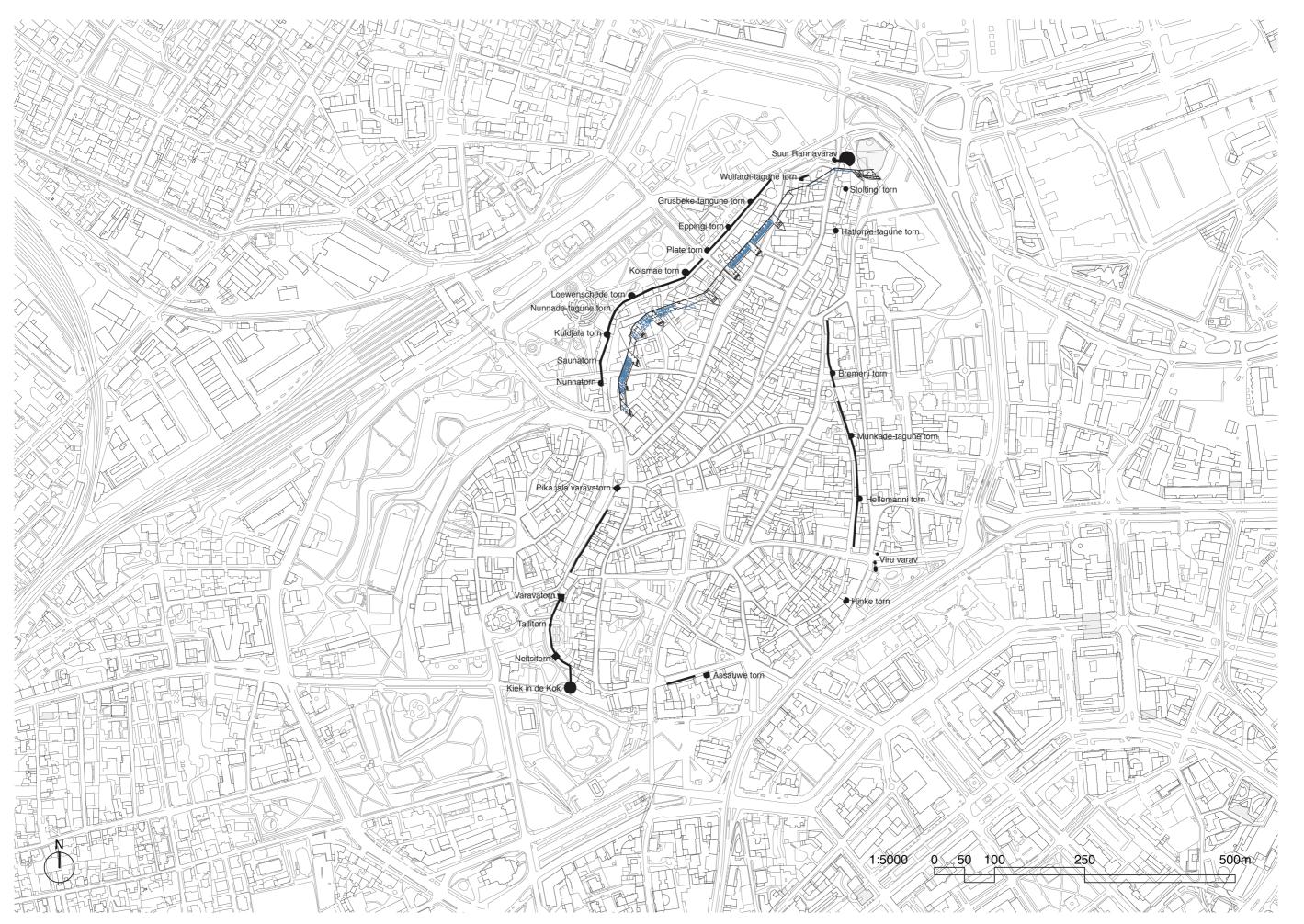
A fortification usually used to protect a city, town or other settlement

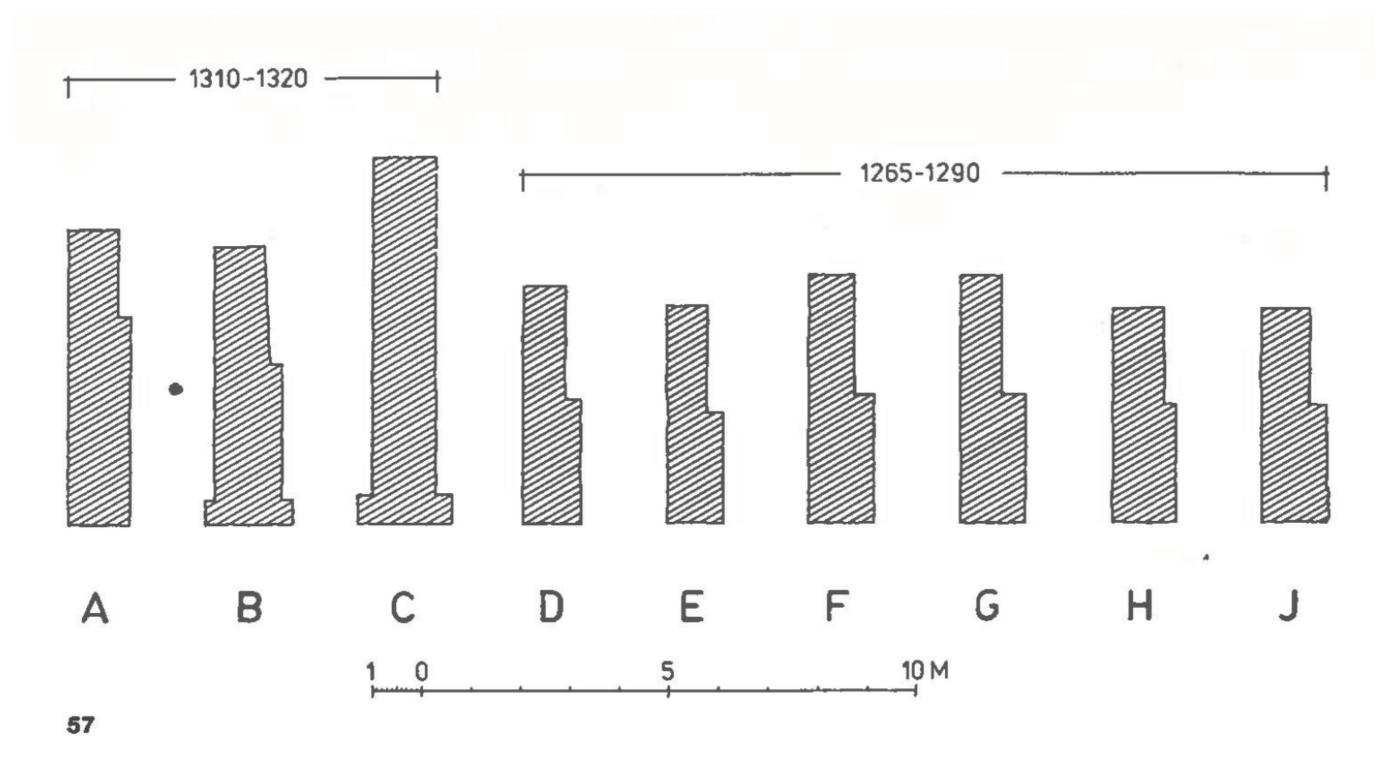


Page 92-93 of Elements of Architecture by Rem Koolhaas



Page 102-103 of Elements of Architecture by Rem Koolhaas

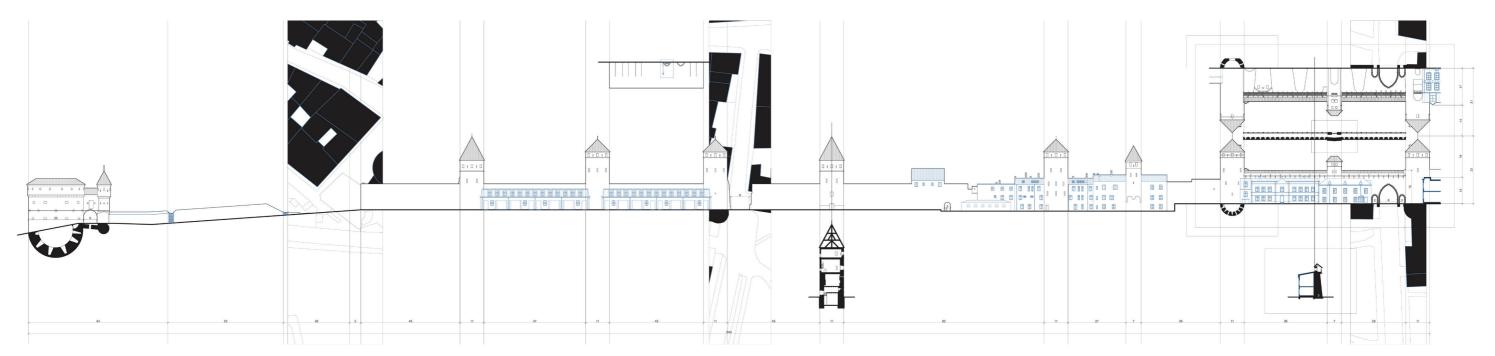




The evolution of Tallinn's town walls by Rein Zobel. Source: Rein Zobel



New structure attached to the city wall between Plate torn and Eppingi torn



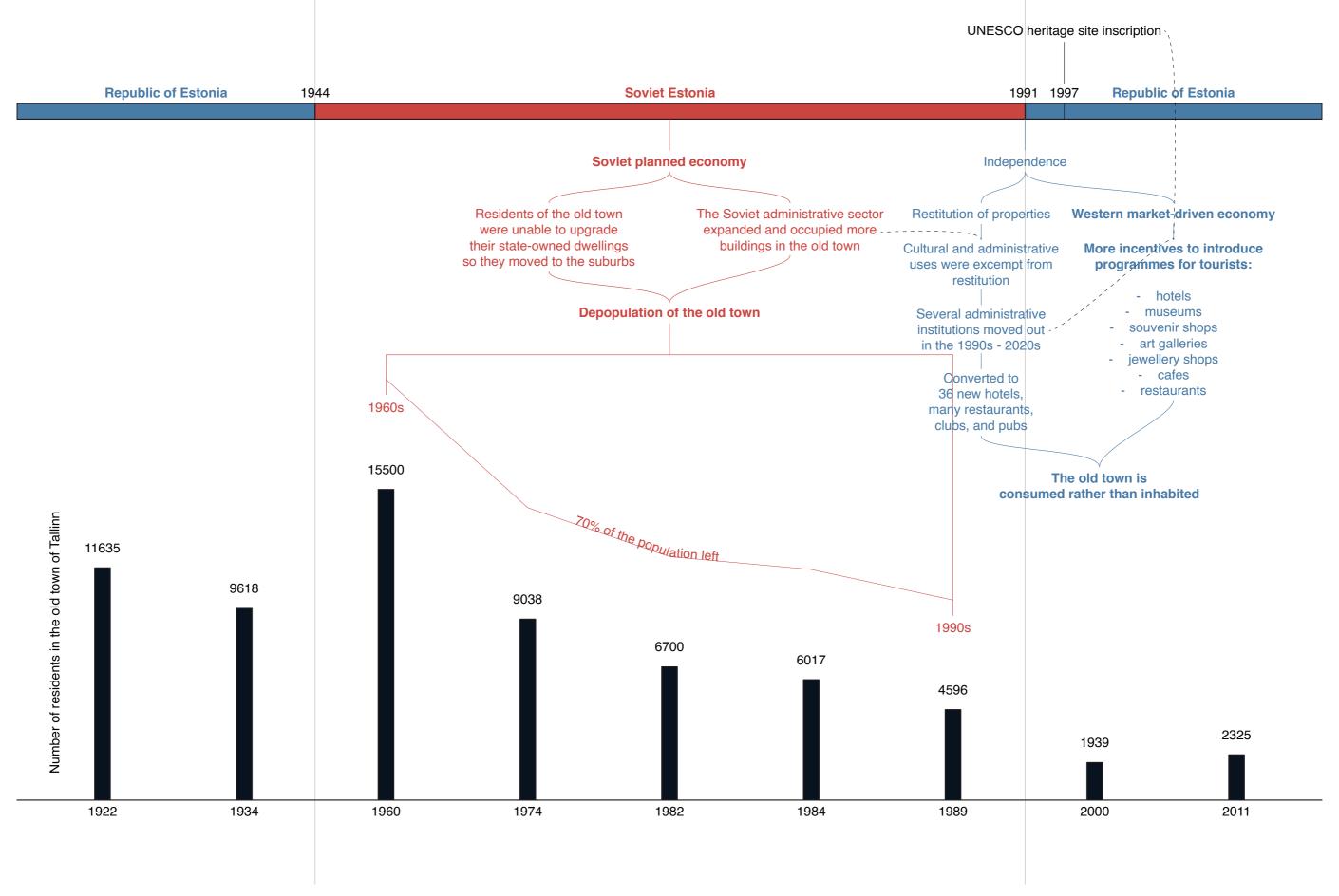
Unfolded elevation of Tallinn's city wall from Suur Rannavarav to Nunnatorn



Tallinn's city wall from Nunnatorn to Kuldjala torn

Problem statement 1

Some parts of the city wall are underutilized.

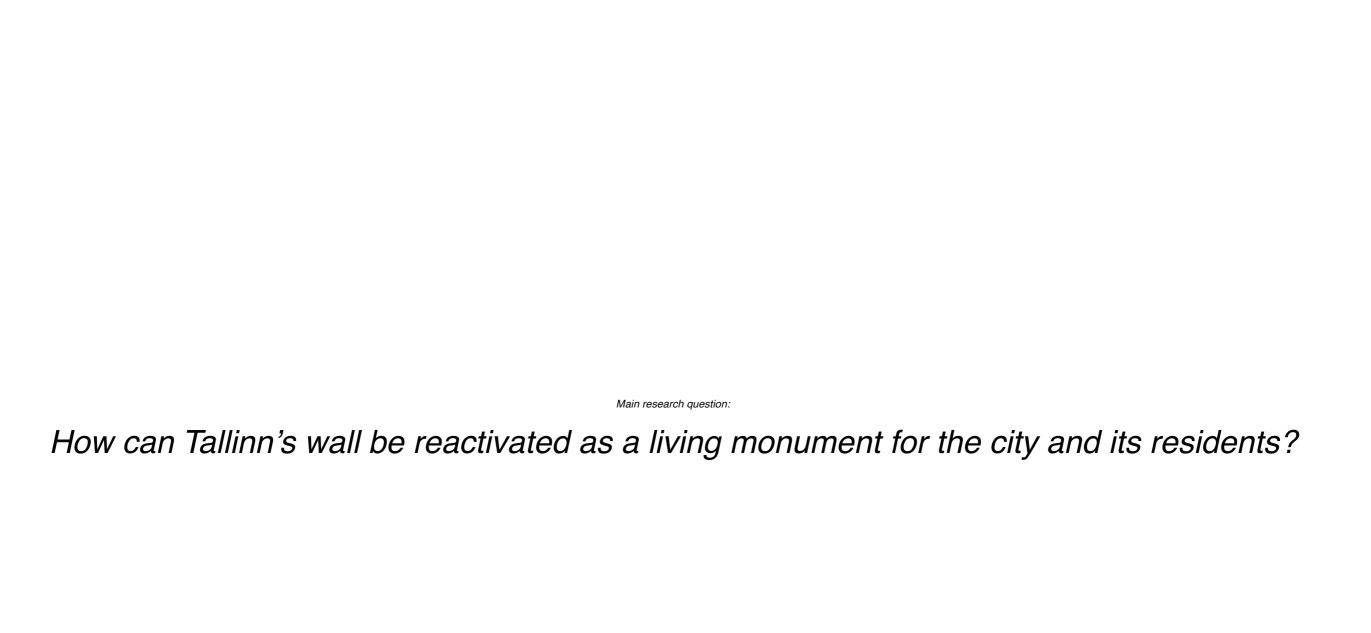




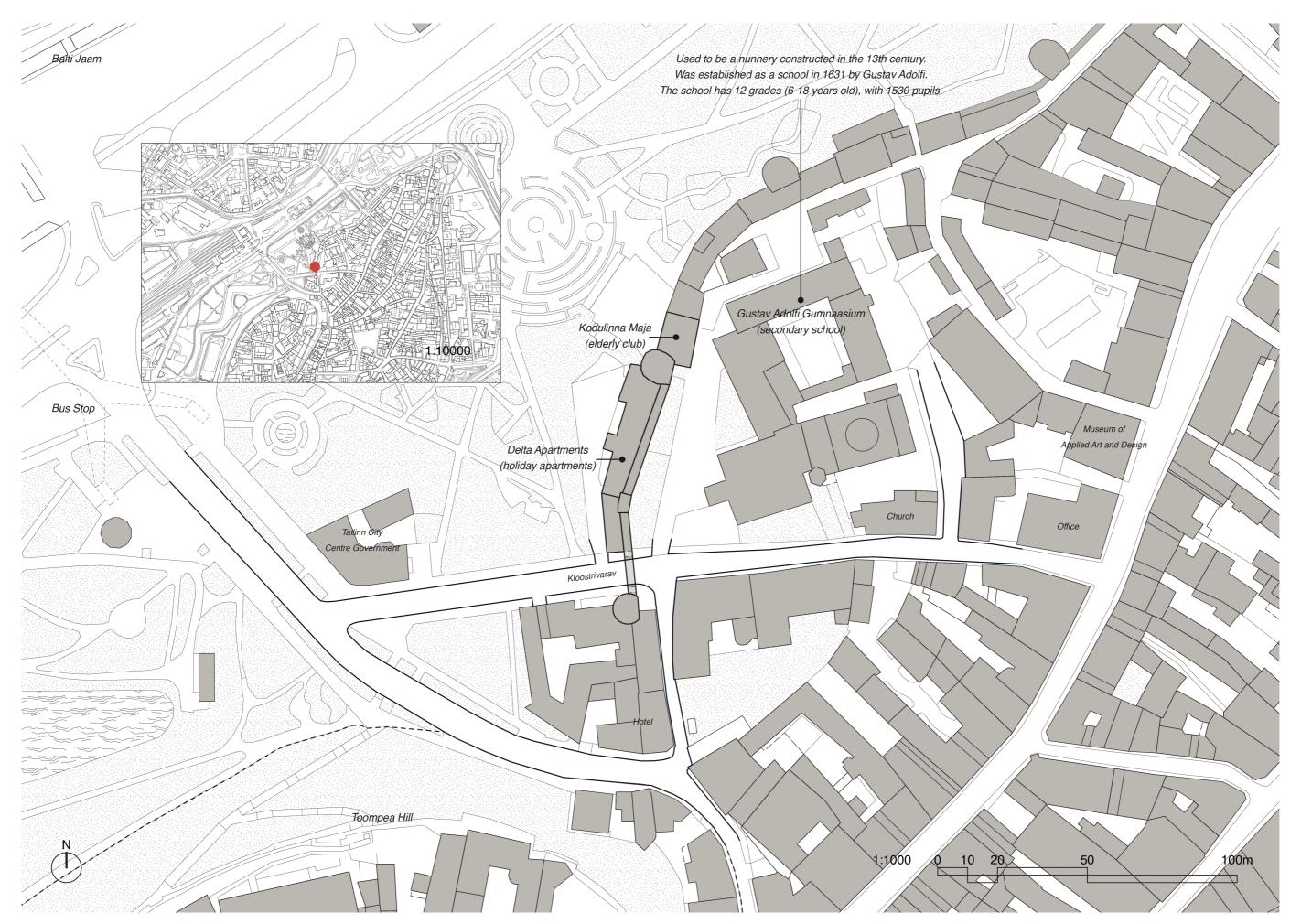
Tallinn's medieval old town

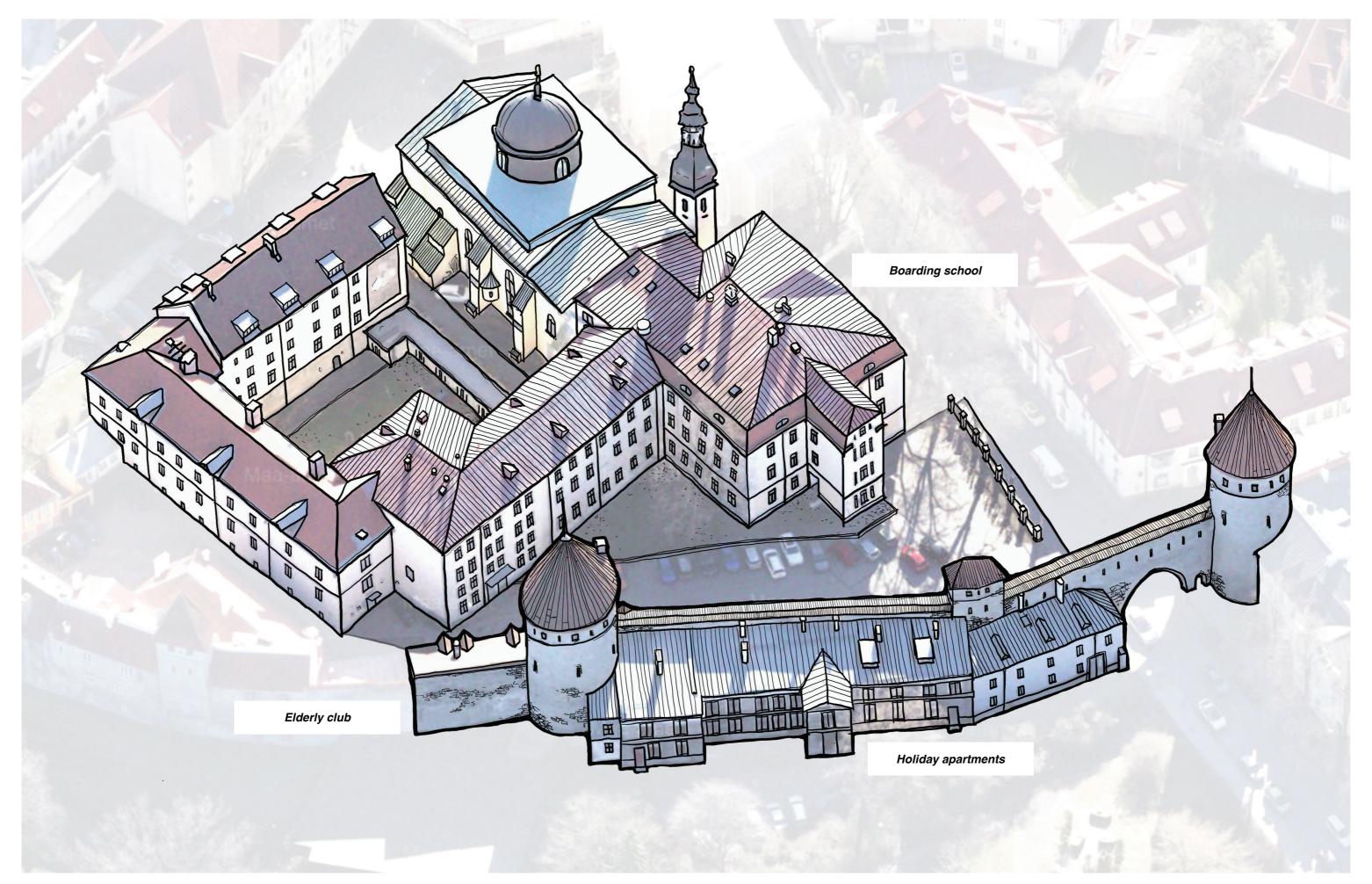
Problem statement 2:

The old town is consumed rather than inhabited.



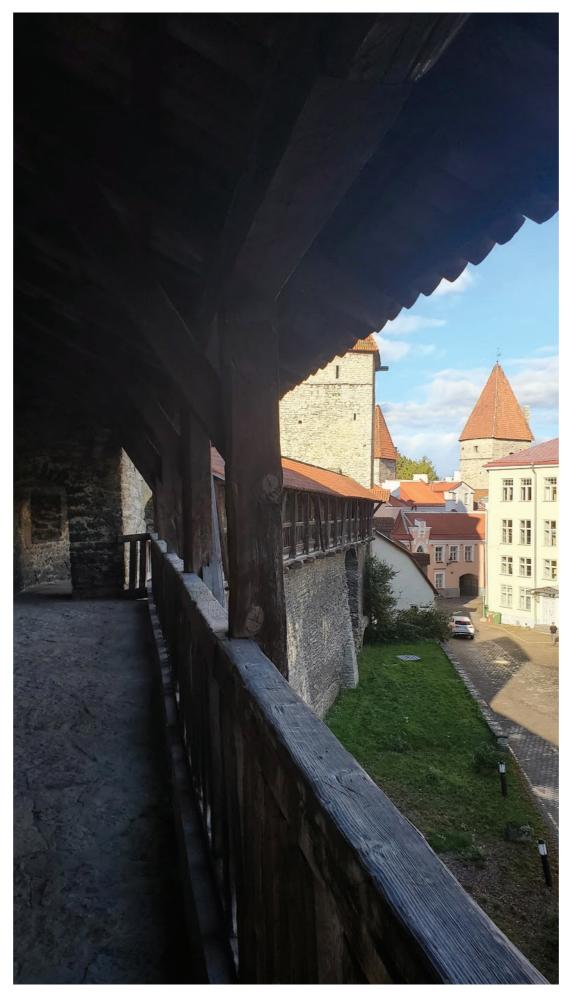
Living monument:
A place of historical and collective value whose essence is preserved, but which is reactivated through thoughtful interventions that make it meaningful and useful for contemporary life.



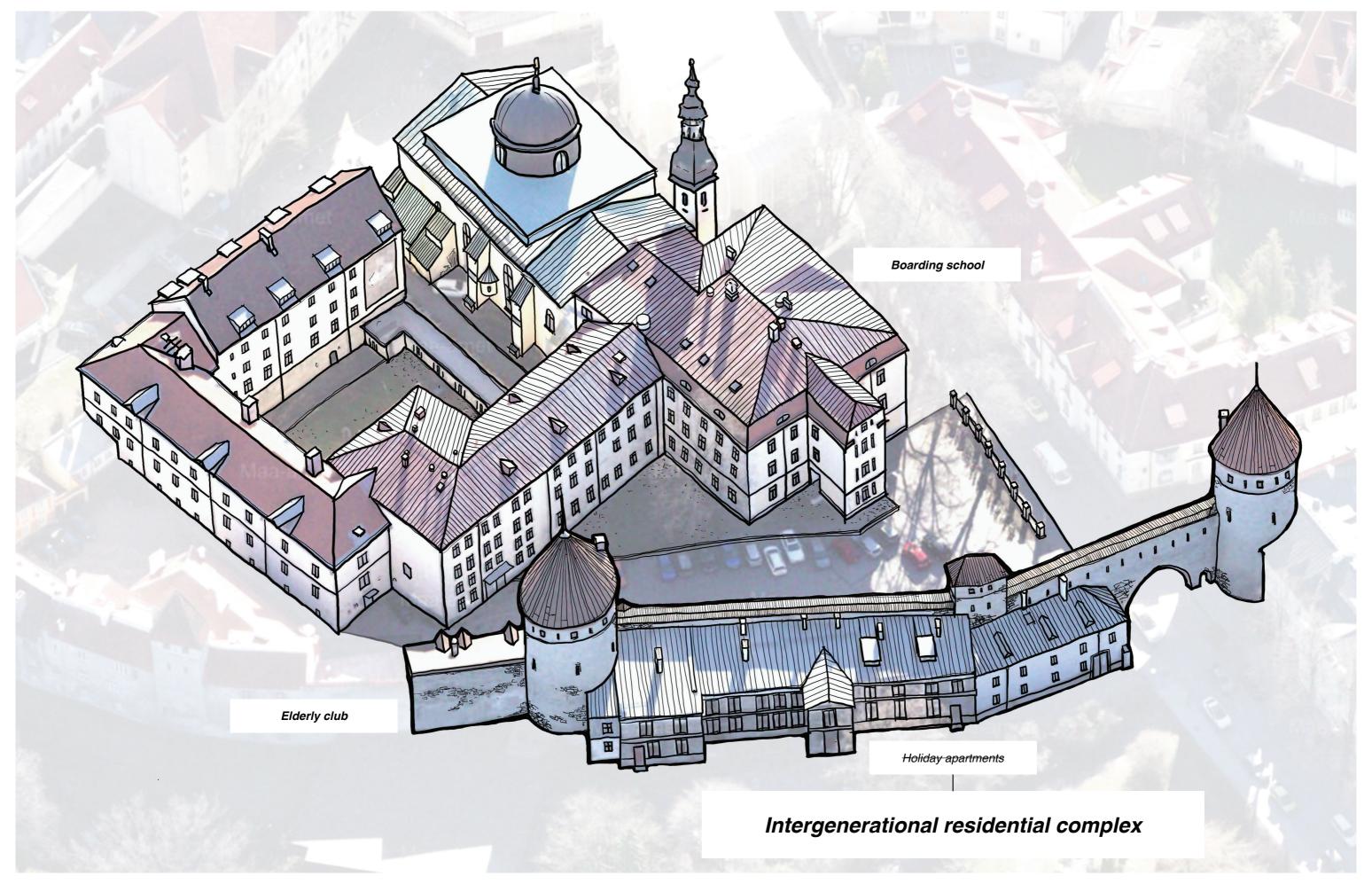




The interior space of Kuldjala torn that is connected to an elderly club



The walkway between Nunnatorn and Saunatorn



Research

Design

Construction

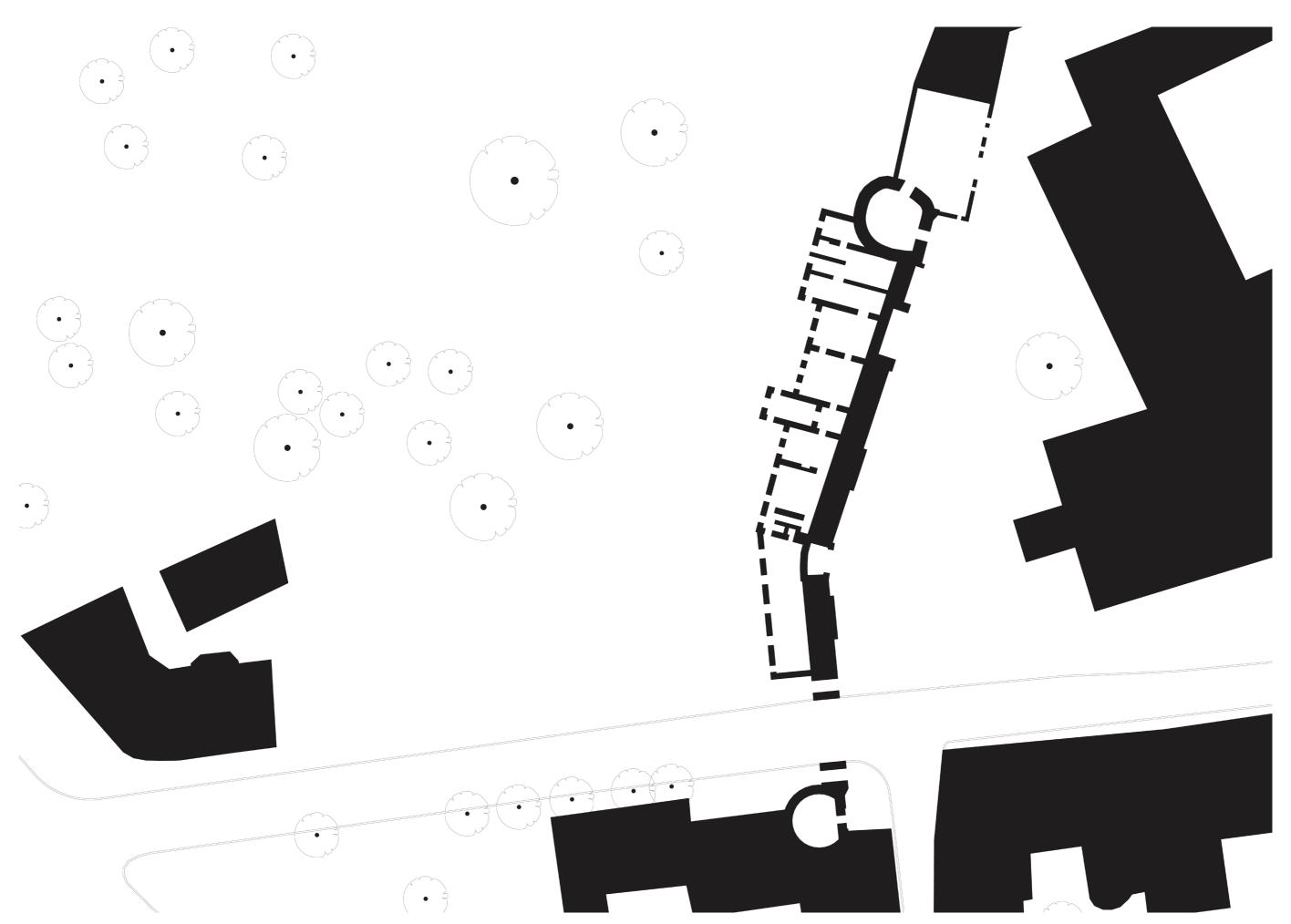
Conclusions

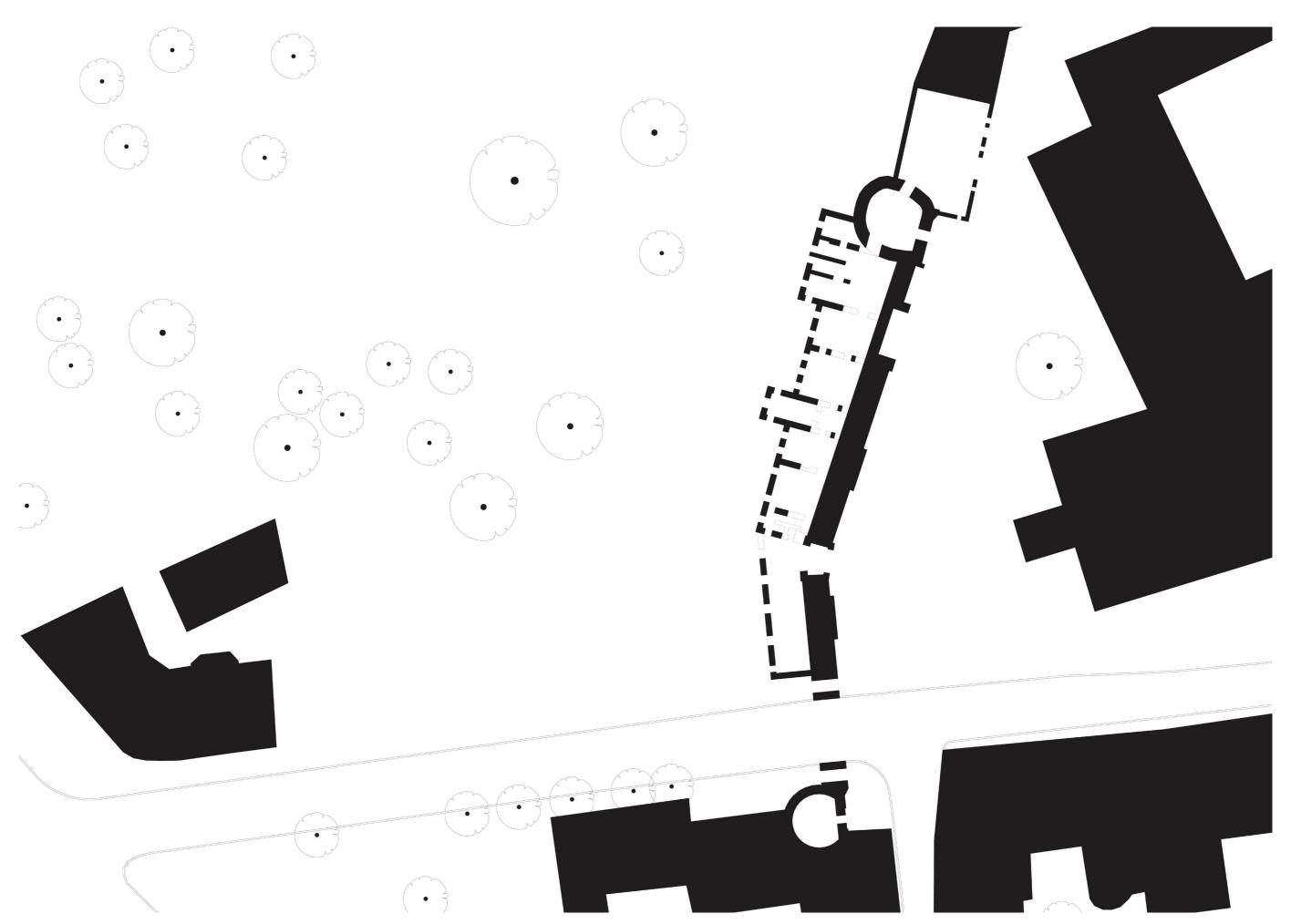


Aerial photo of the site in the 1920s. Source: Gustav Adolfi Gumnaasiumi Ajaloomuuseum

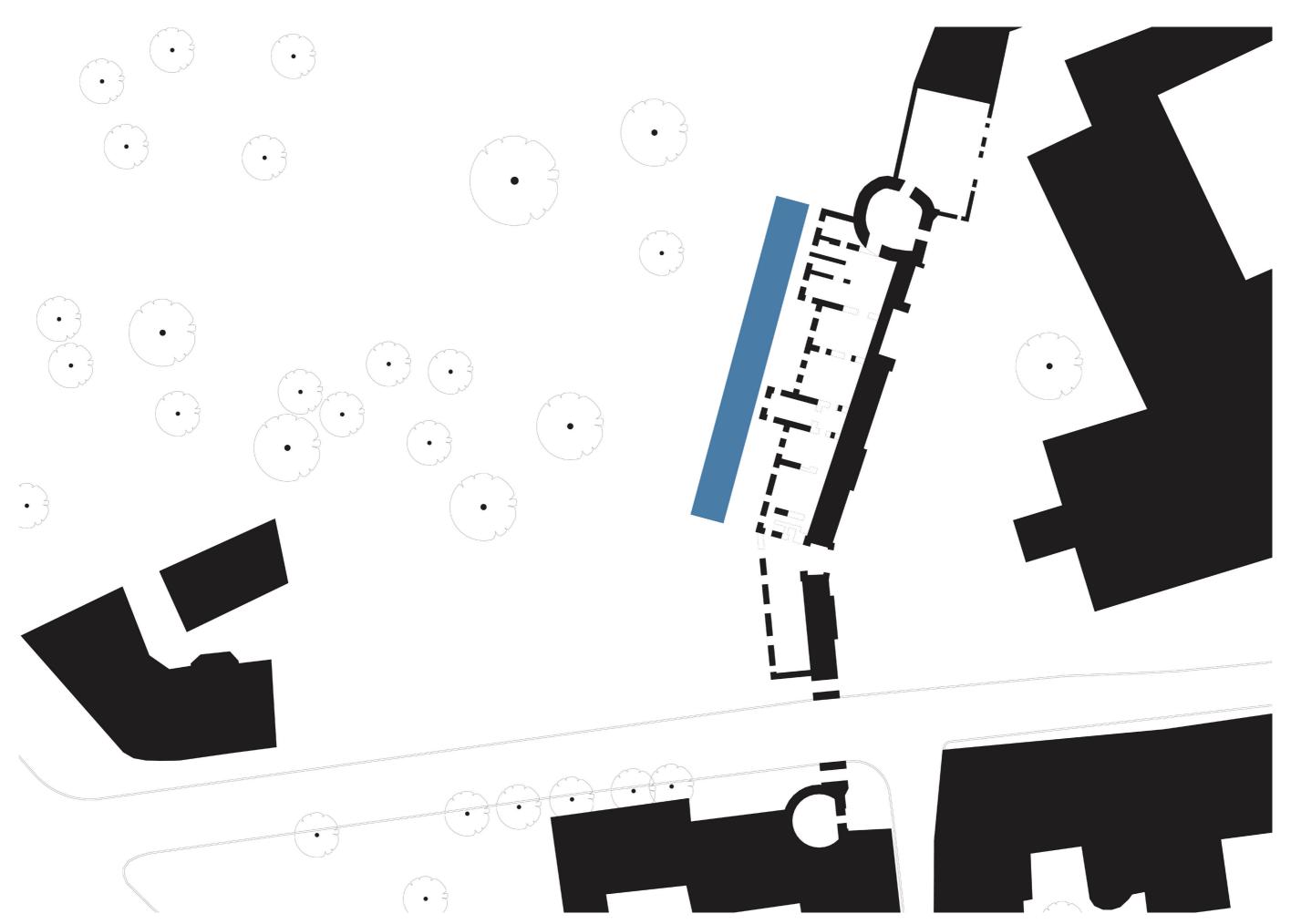
Revealing the hidden wall





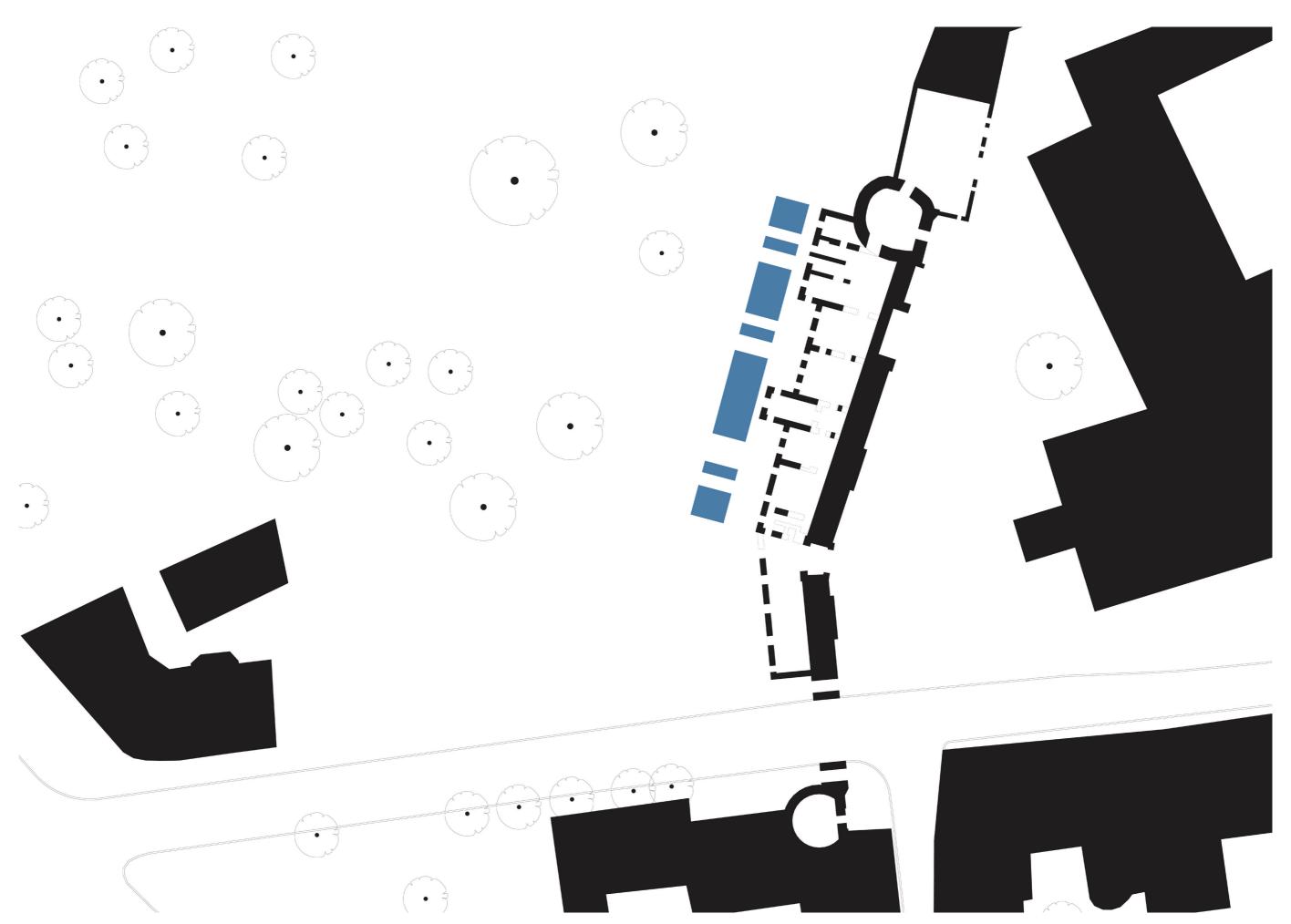


Noli map of the opening up an internal street next to the city wall

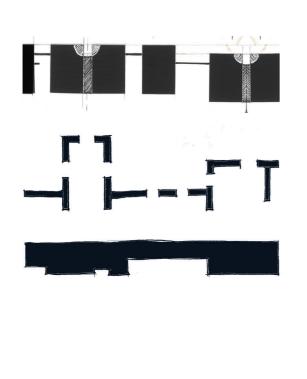


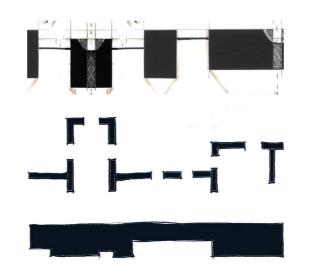
Noli map showing a new wall in front of the holiday apartments

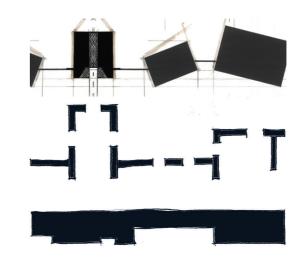
Reinterpreting the old walls through a new one

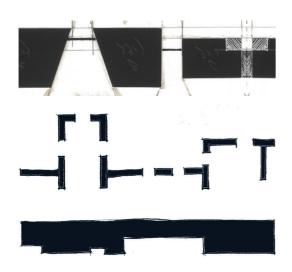


Noli map showing a new wall in front of the holiday apartments

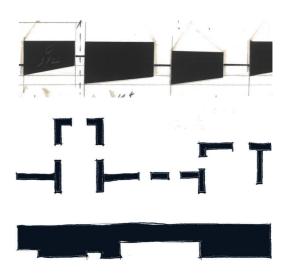


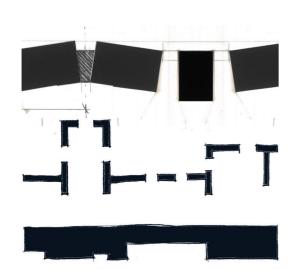


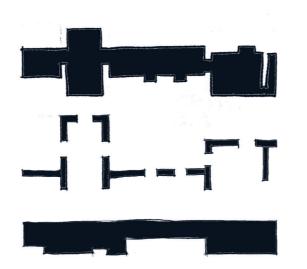


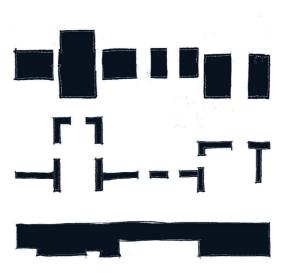


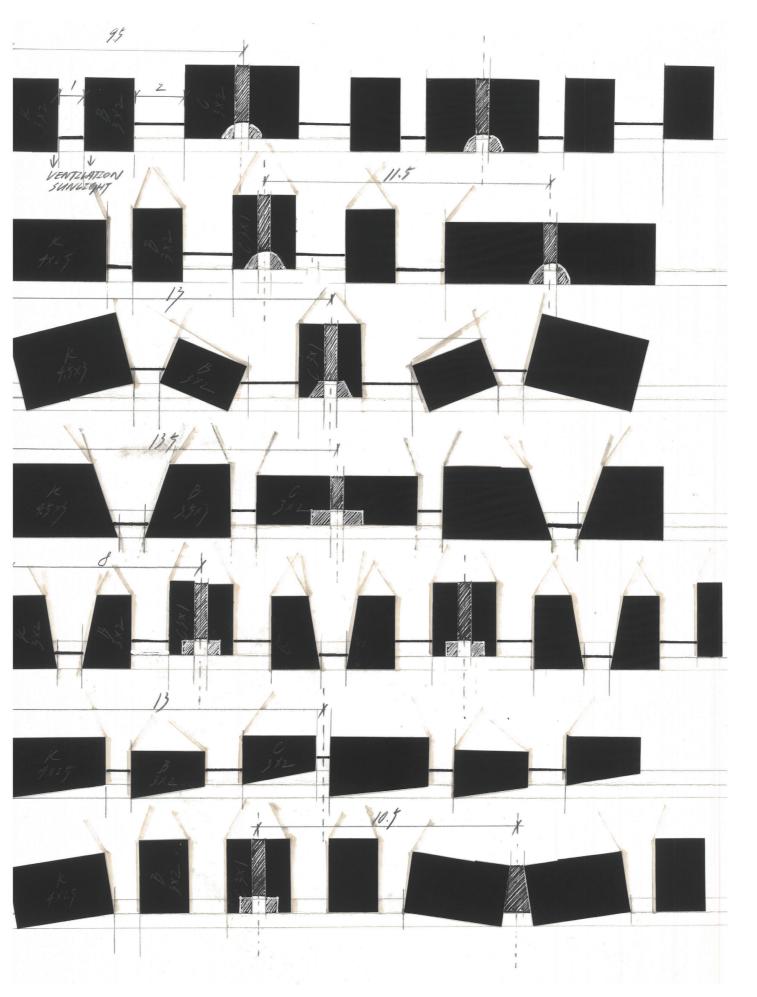




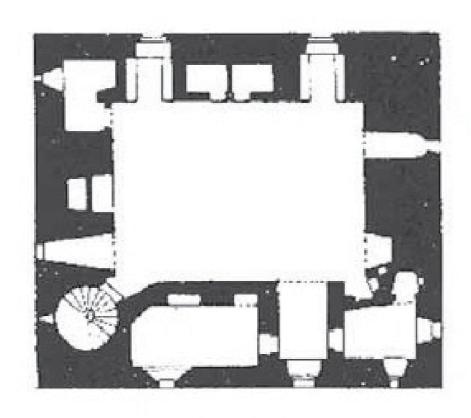


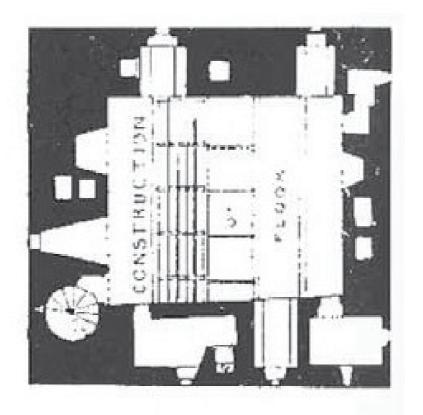


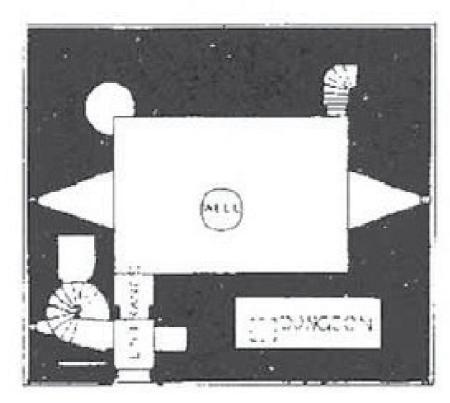


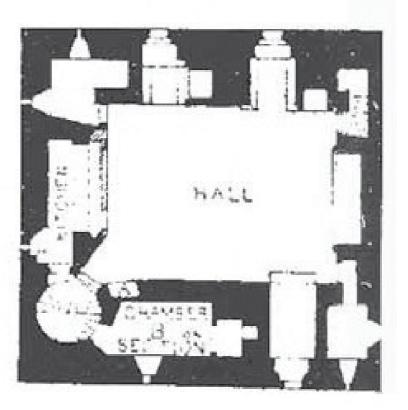


Making use of thickness

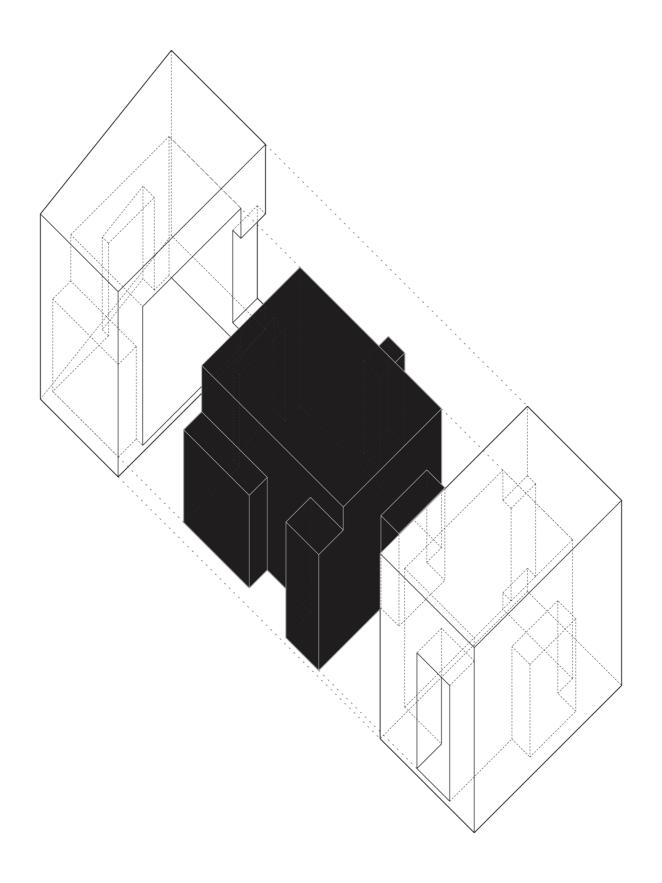


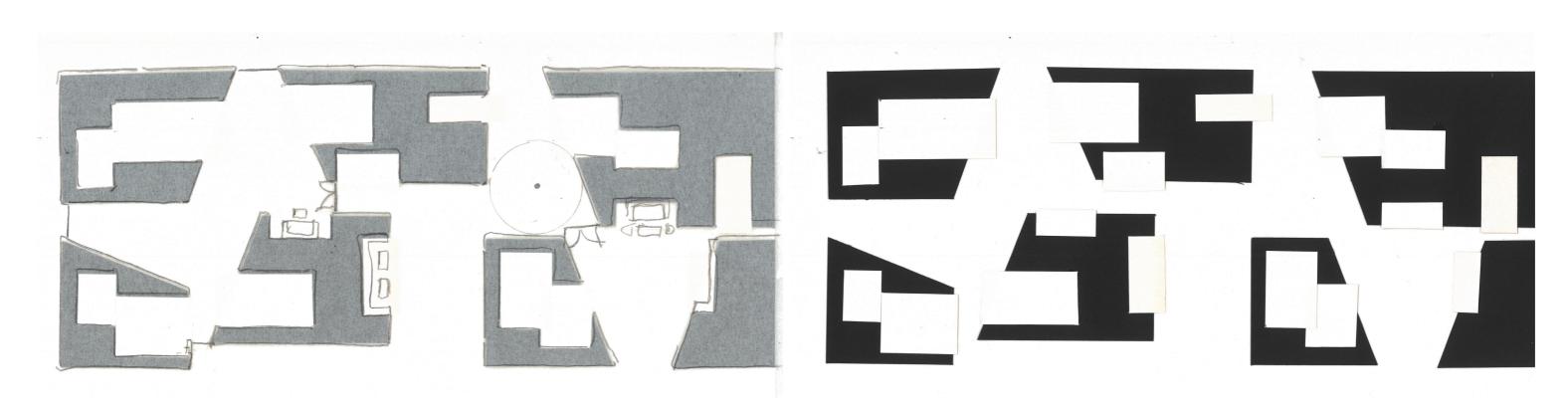






British castle floor plans sketches by Louis Kahn. Source: In the Realm of Architecture

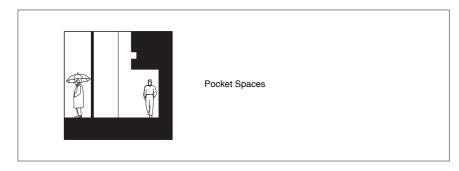


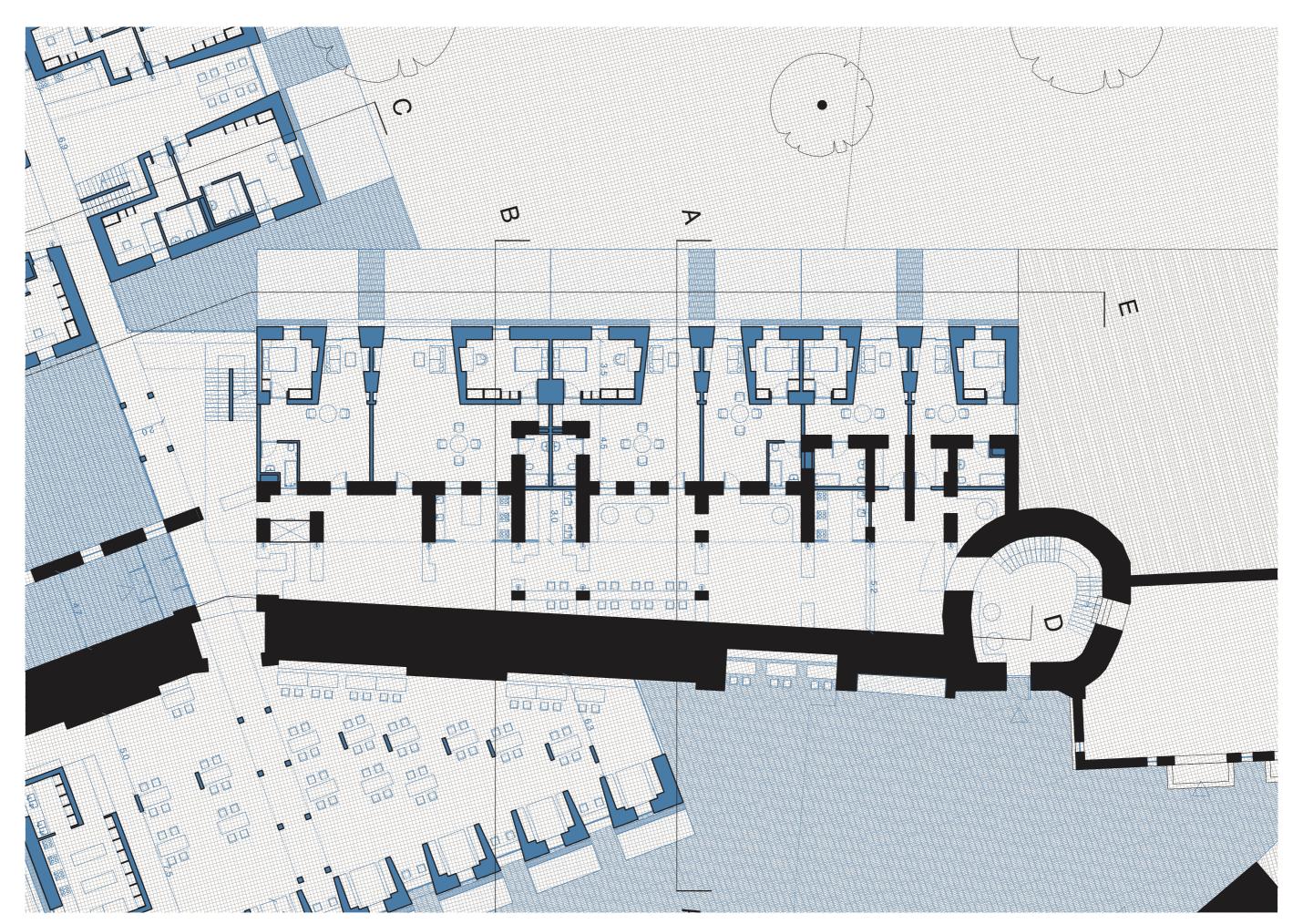


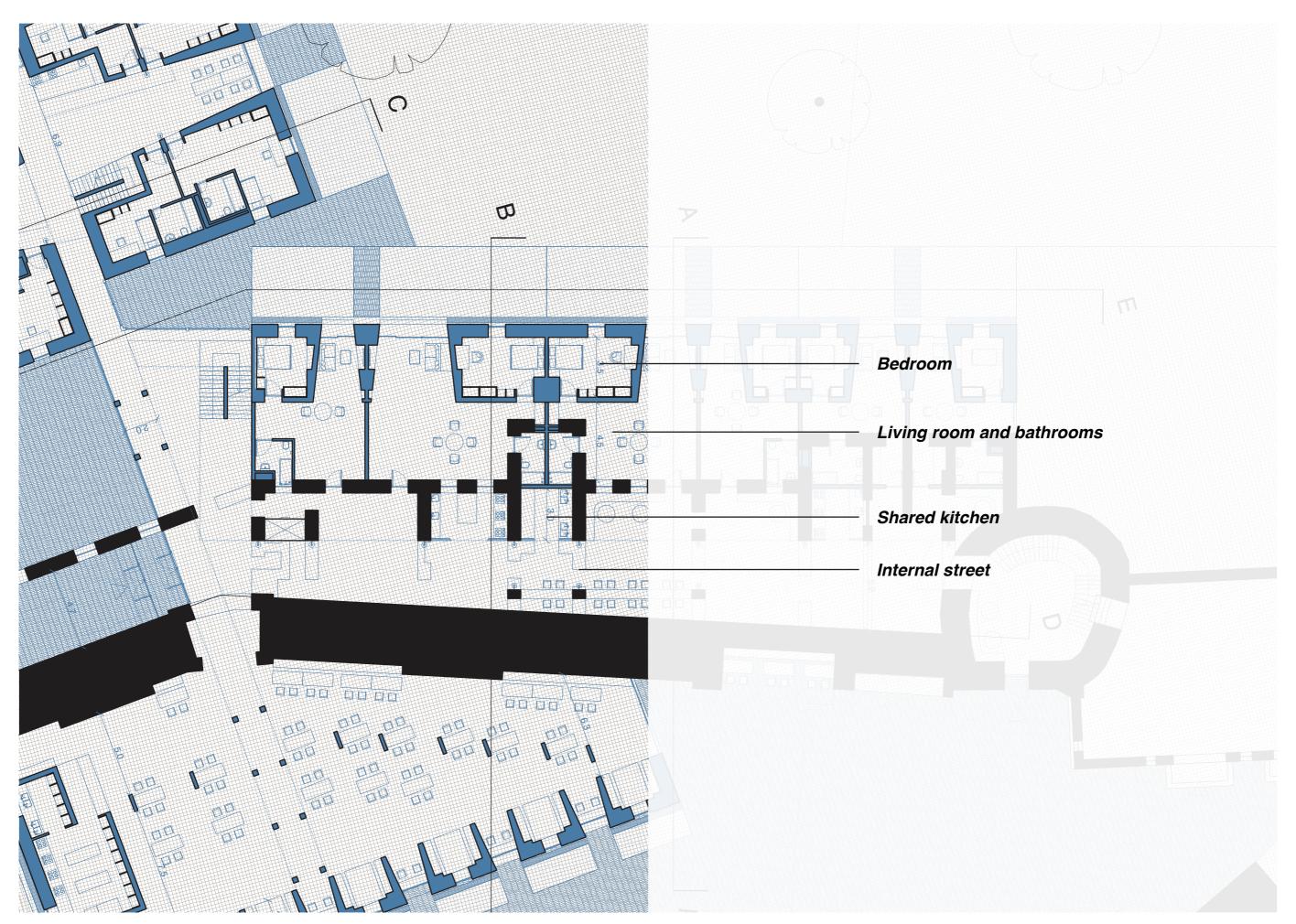
Niches that create both private and shared spaces



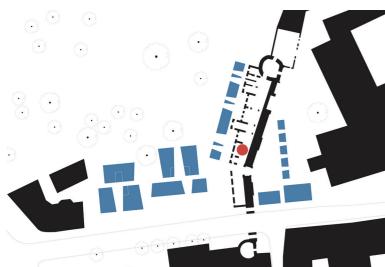




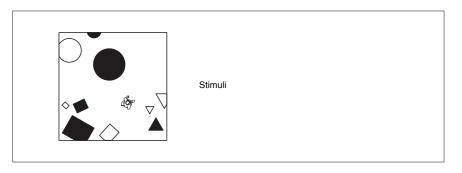


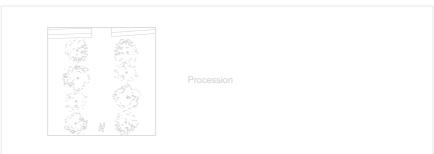






Perspective rendering of the internal street





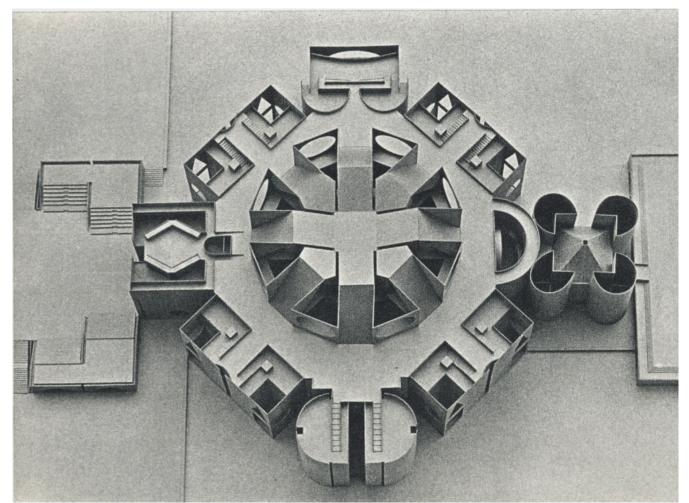




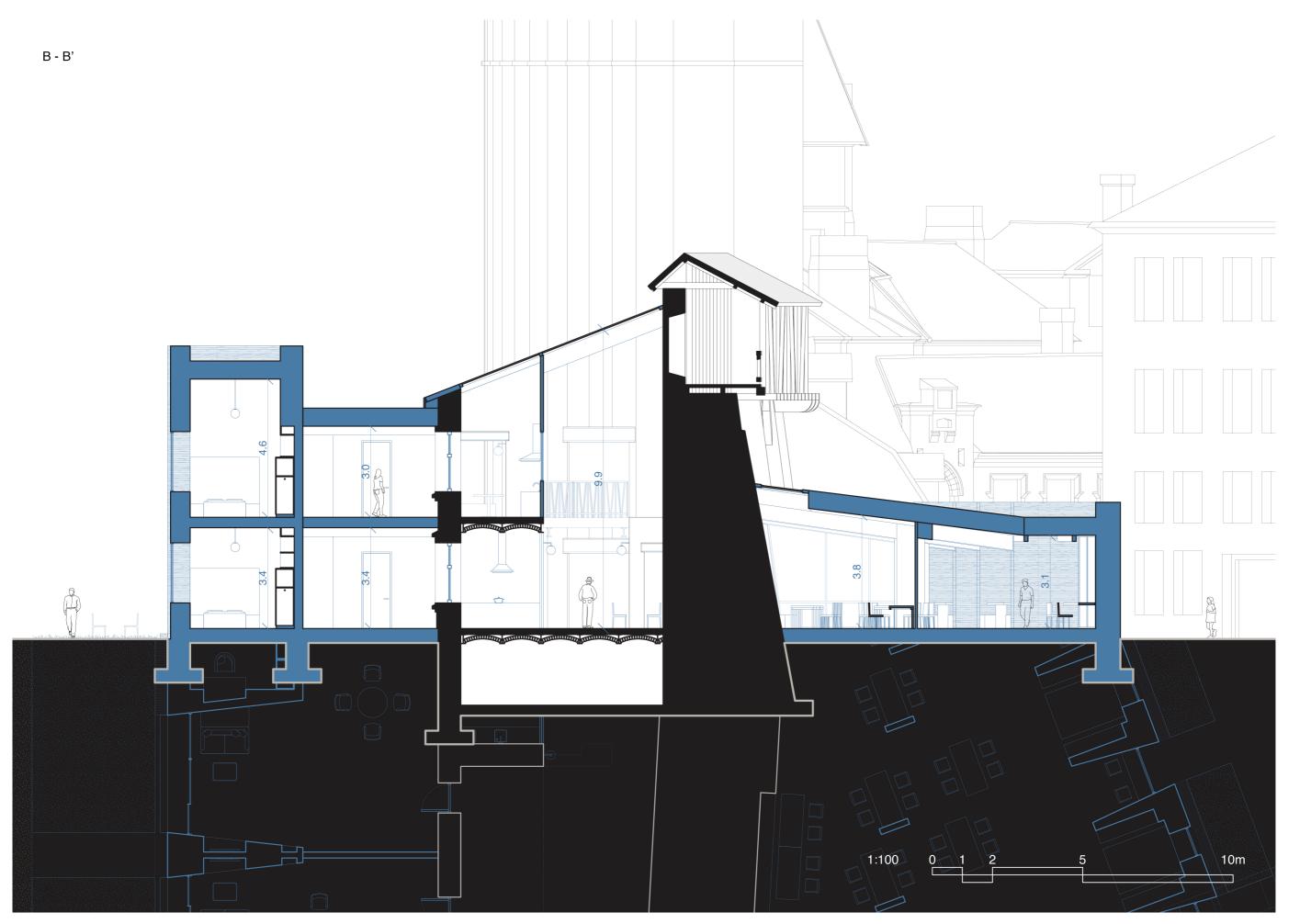
A Bird's-eye view of the Bank of England by Joseph Michael Gandy ARA. Source: Sir John Soane's Museum

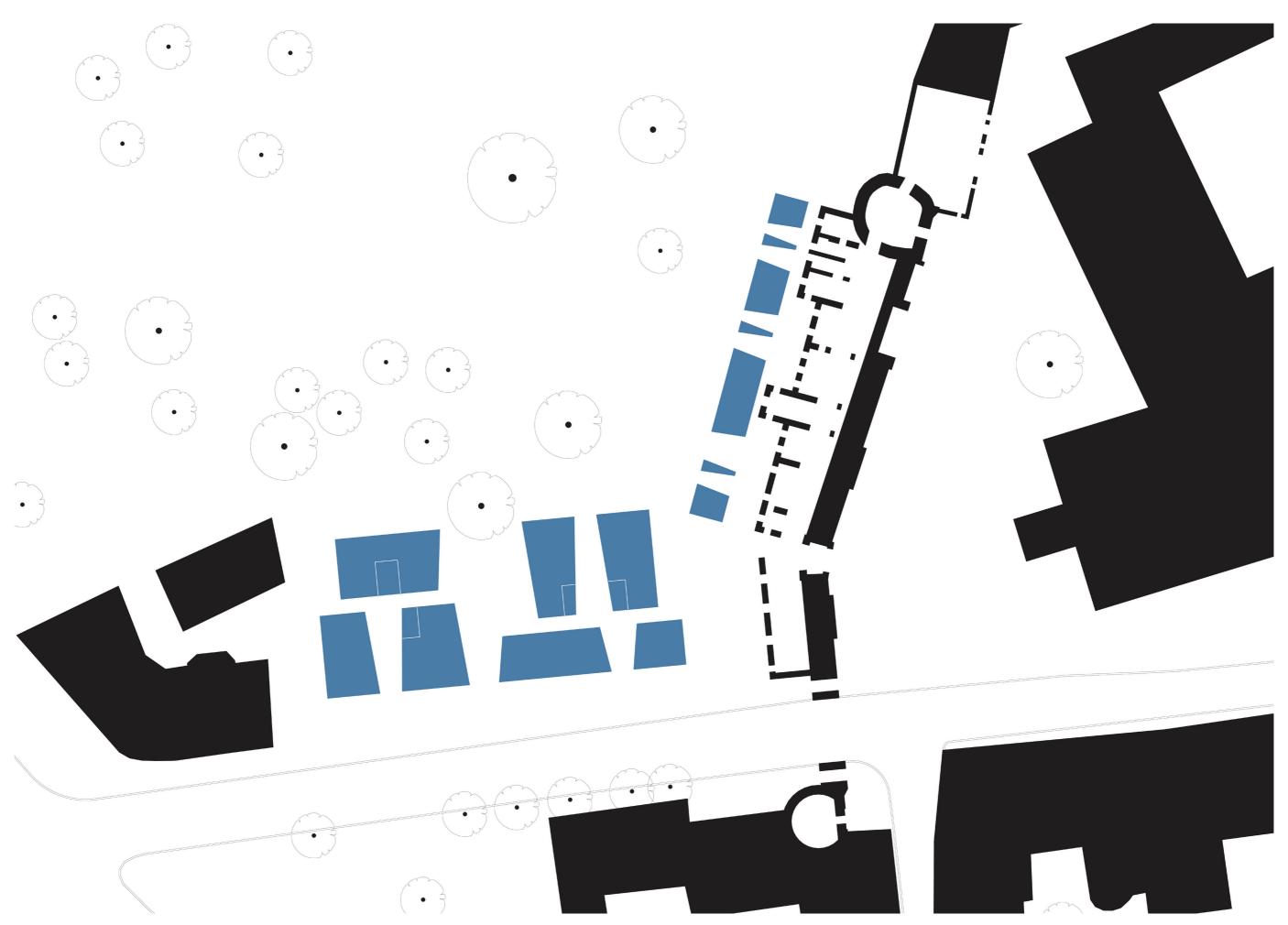


Aerial view of National Assembly Building of Bangladesh by Louis Kahn. Source: University of Pennsylvania



Cardboard study model by of National Assembly Building of Bangladesh by Louis Kahn. Source: Louis Kahn



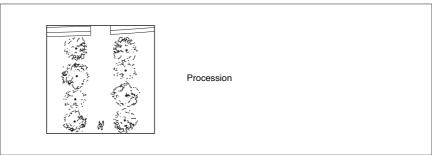


Noli map showing extensions of the design intot the parks

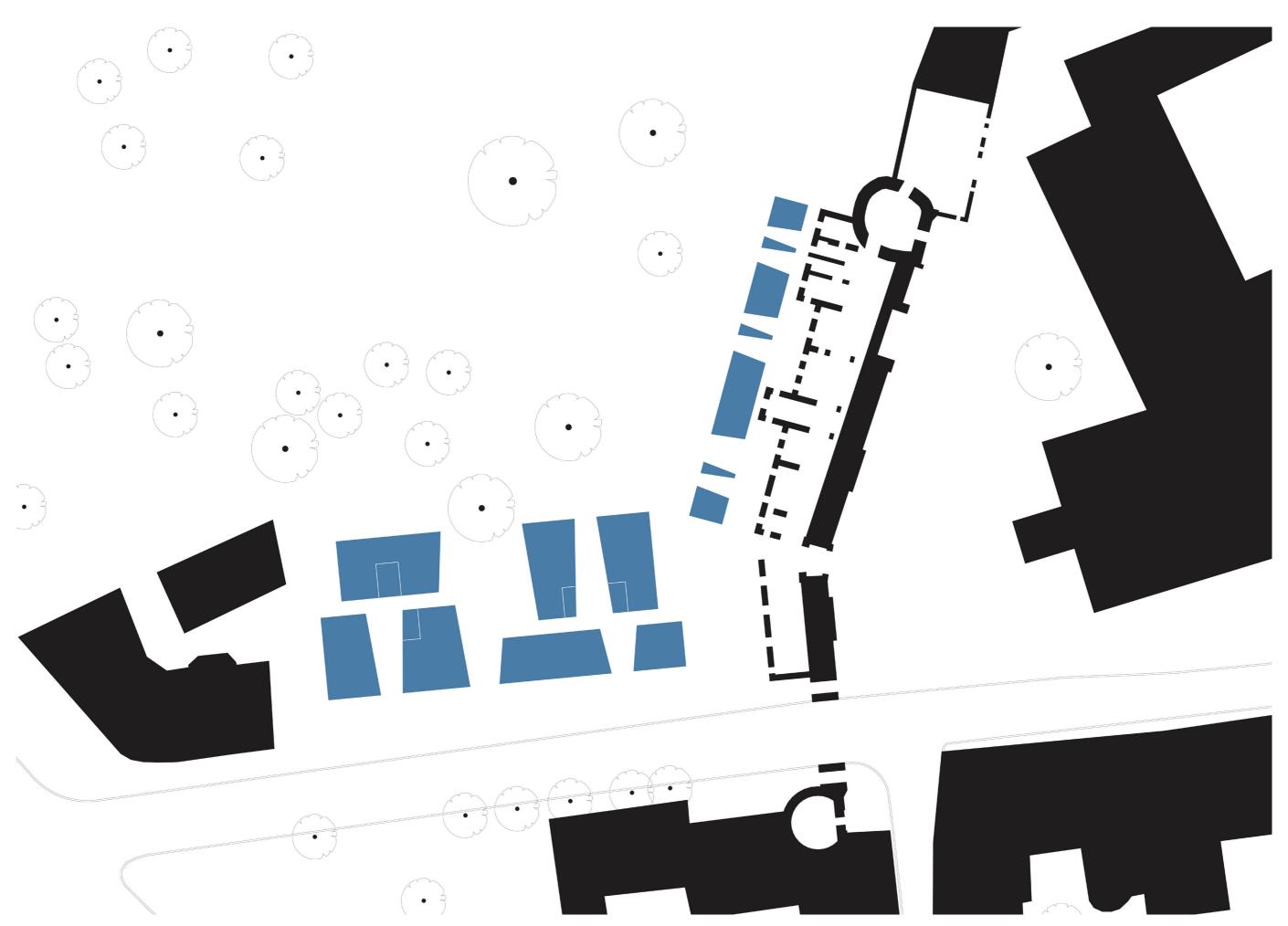


Perspective drawing of the framing of the gate with buildings on the two sides

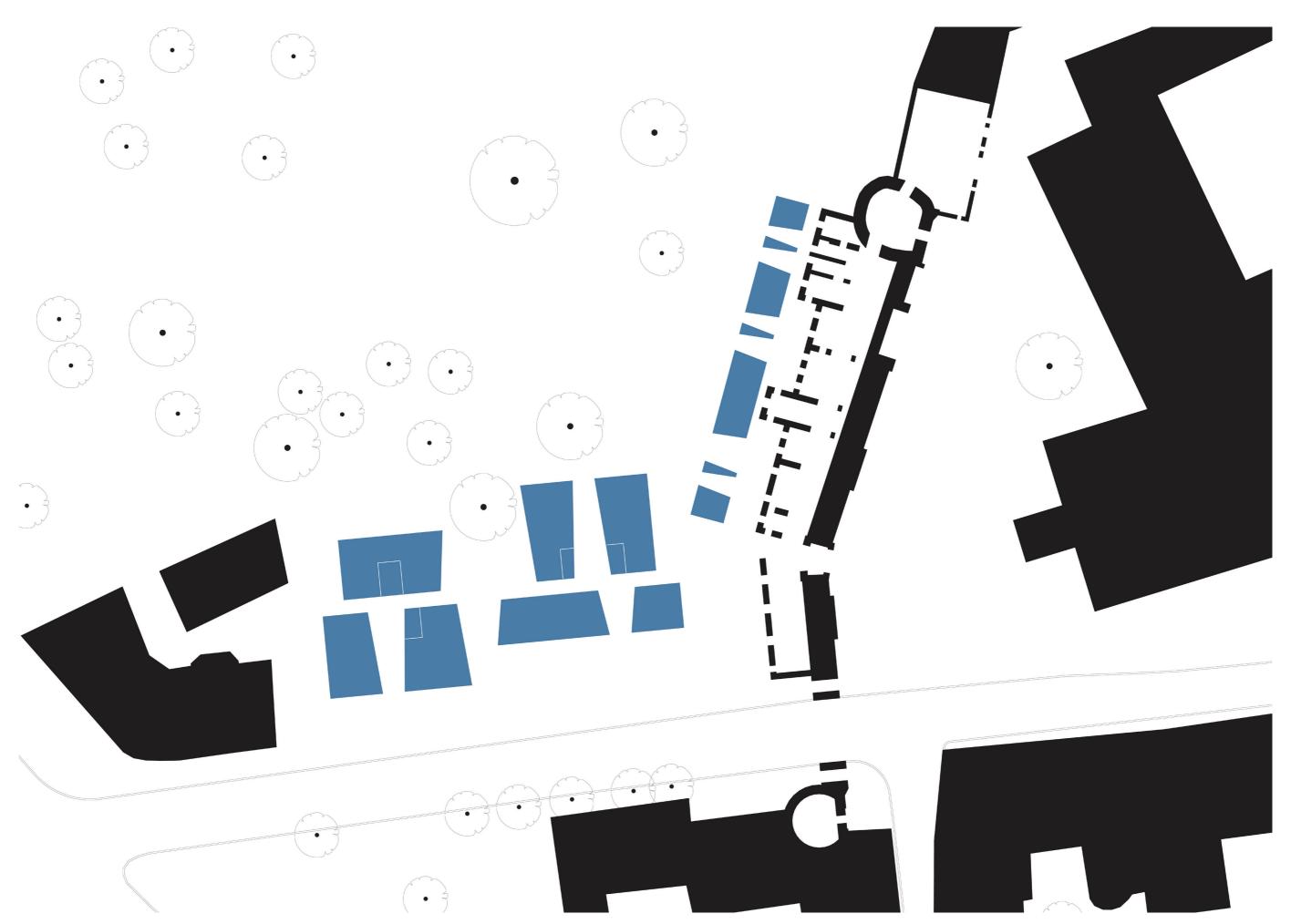


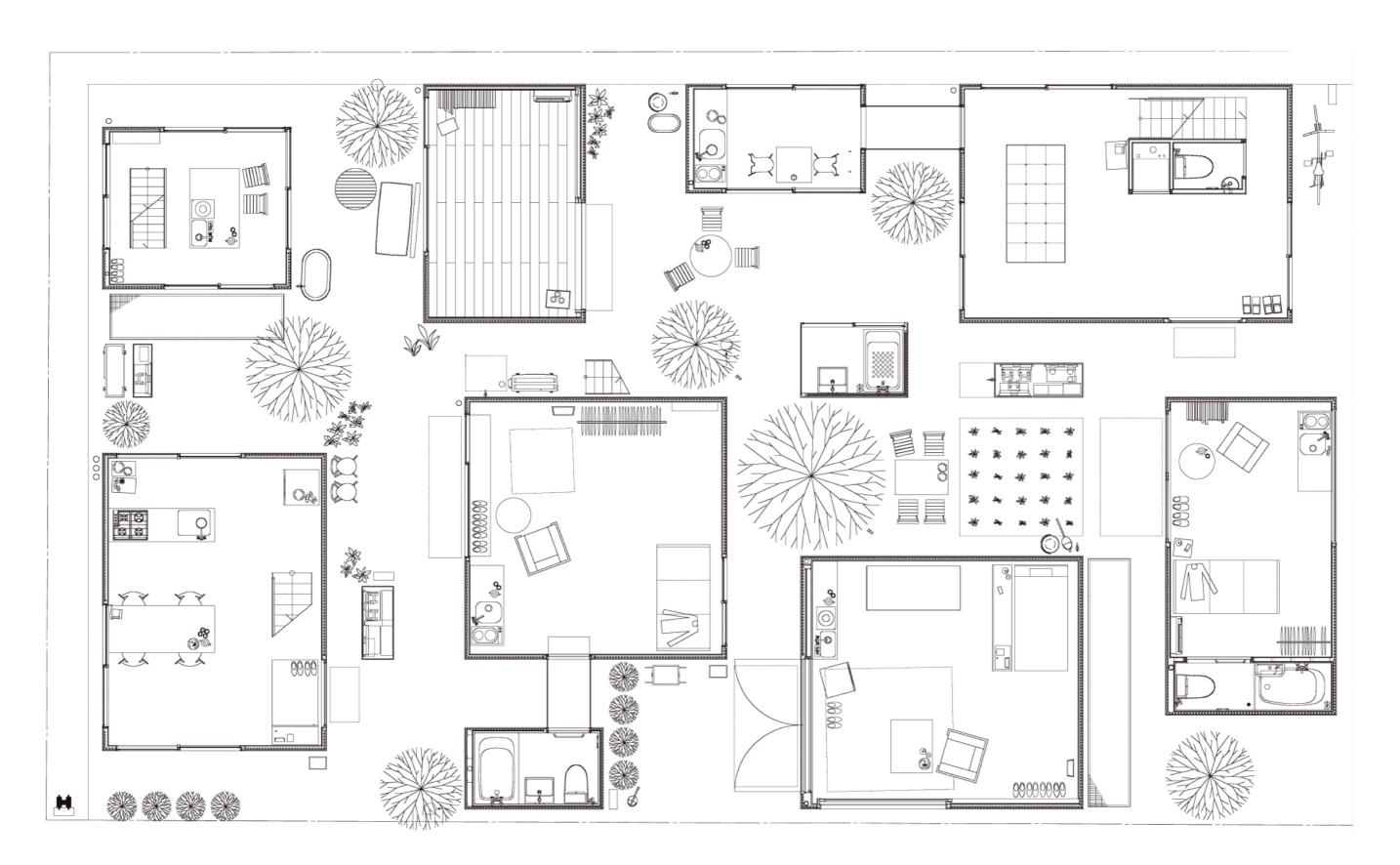






Noli map showing extensions of the design intot the parks



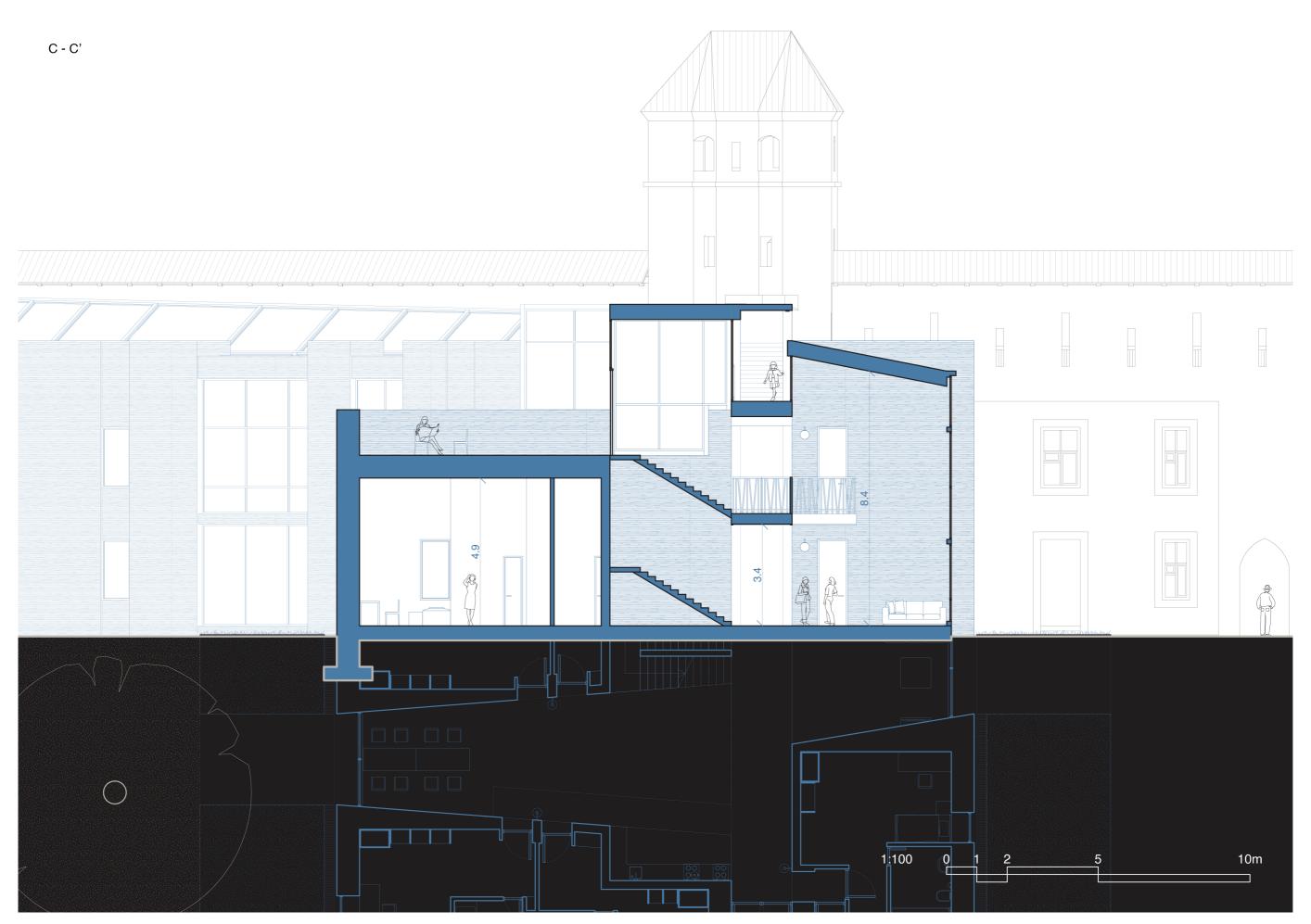


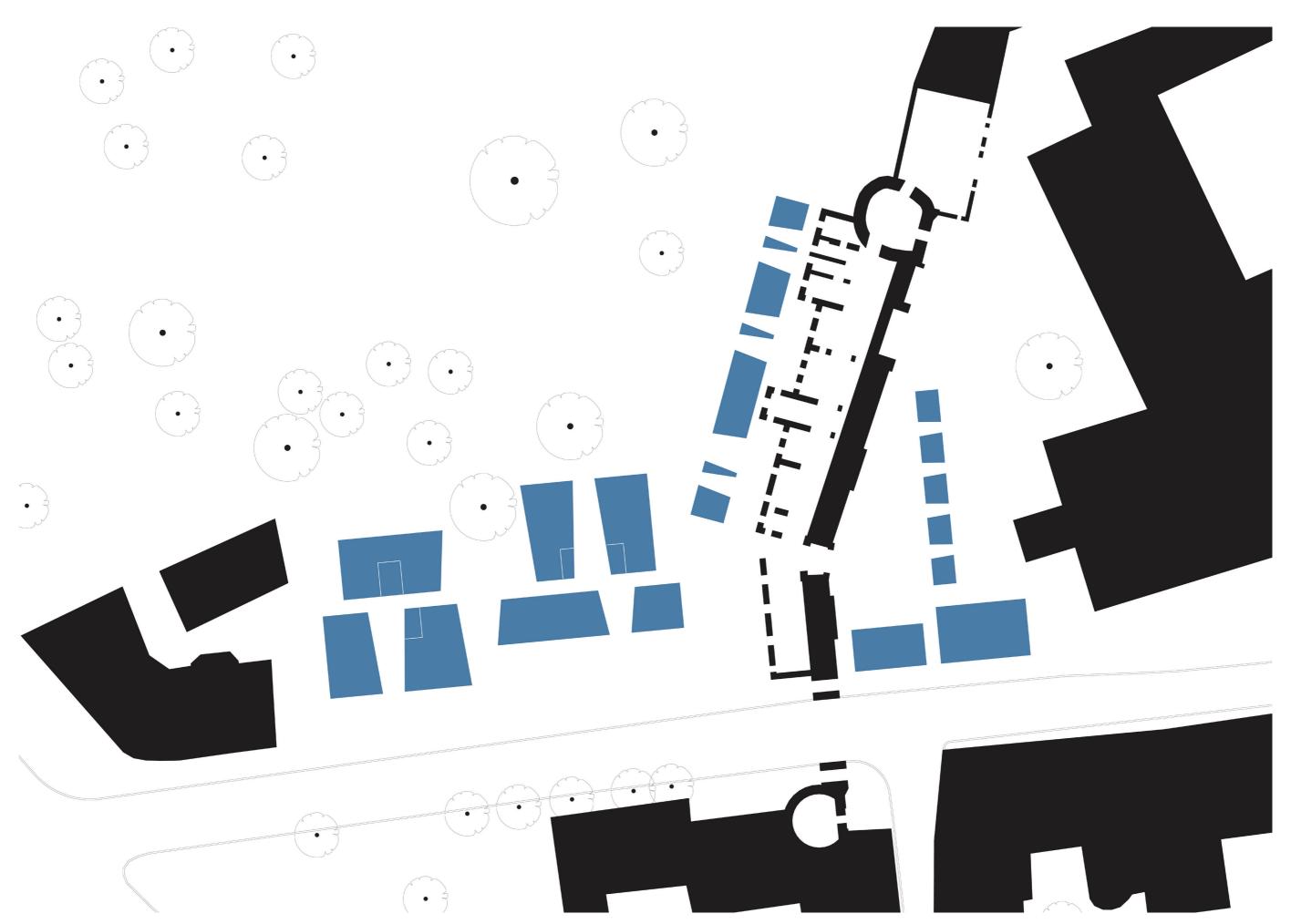
Floor plan of Moriyama House by Office of Ryue Nishizawa. Source: Arquitectura Viva





Photo of the model of the student clusters





Noli map showing the canteen as an element slightly closing off the courtyard

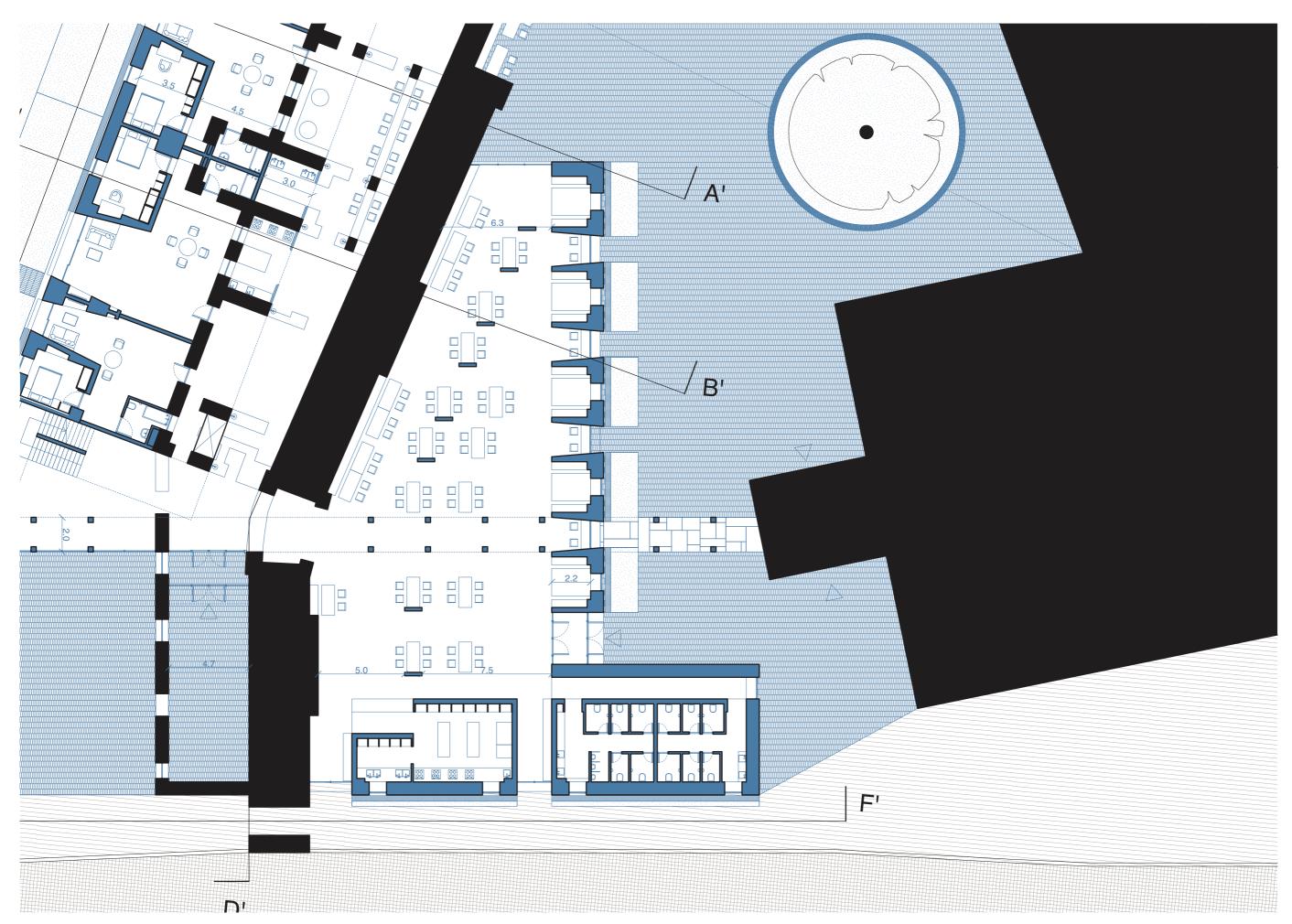
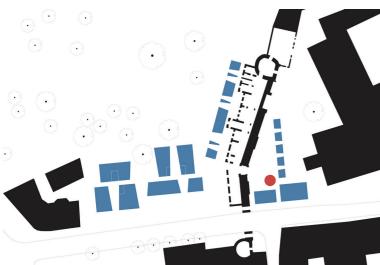


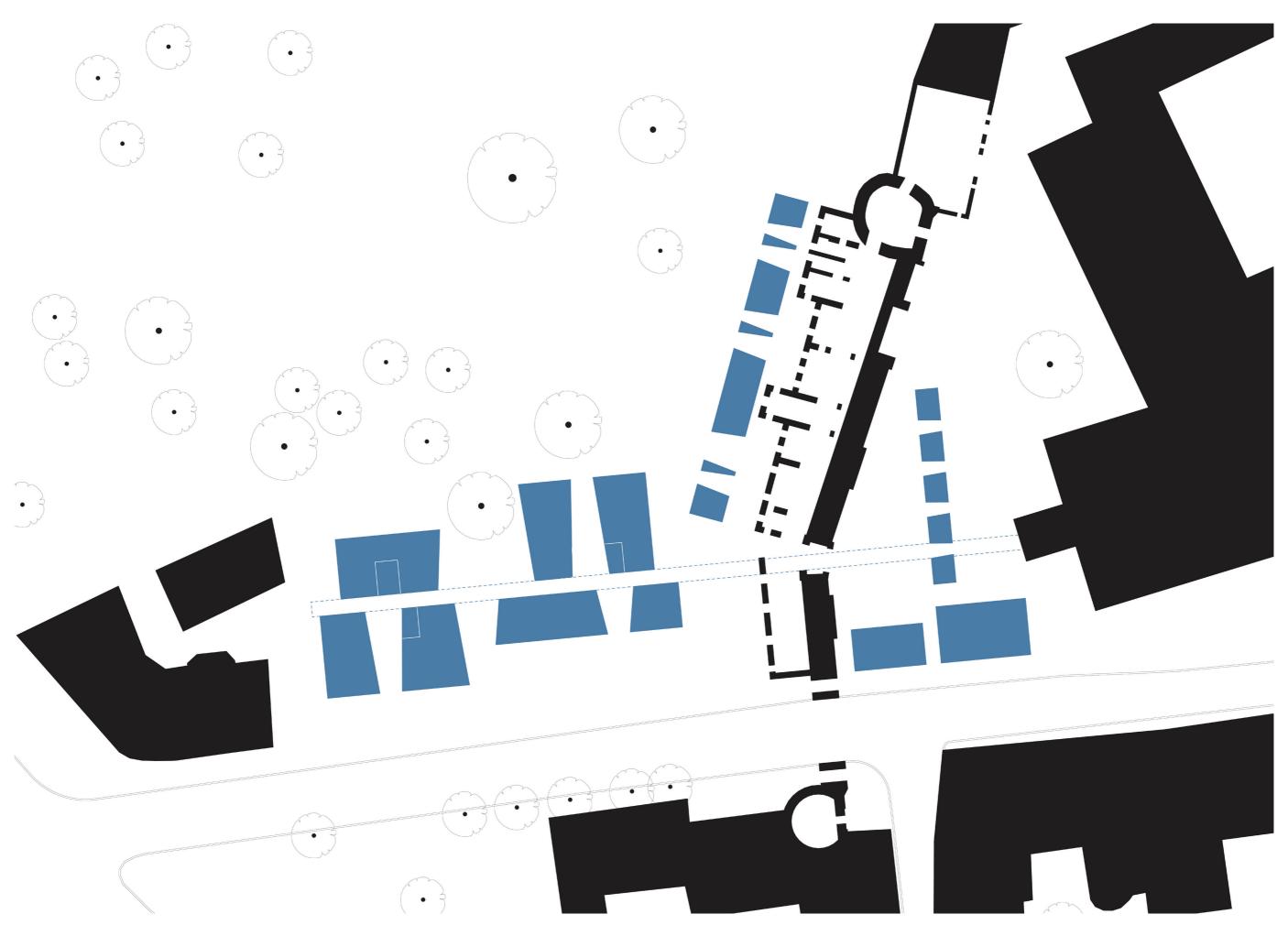


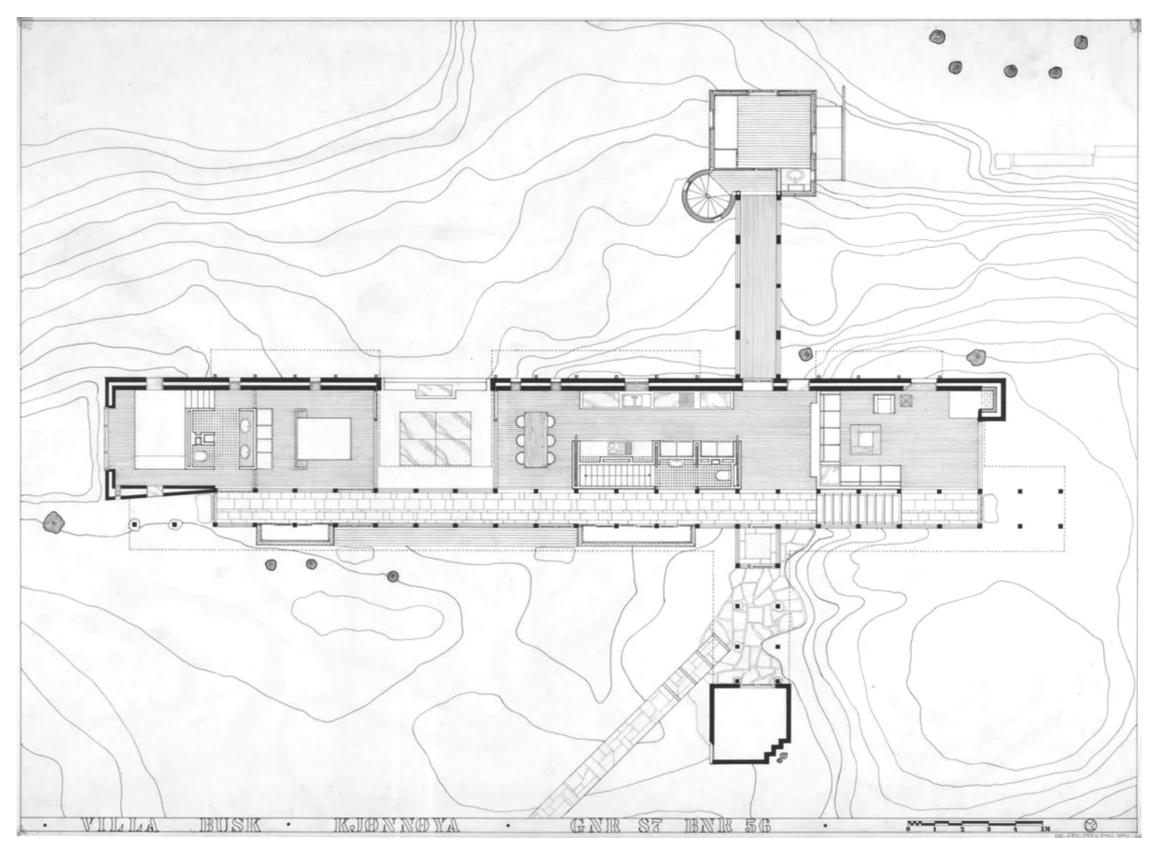
Photo of the model of the courtyard



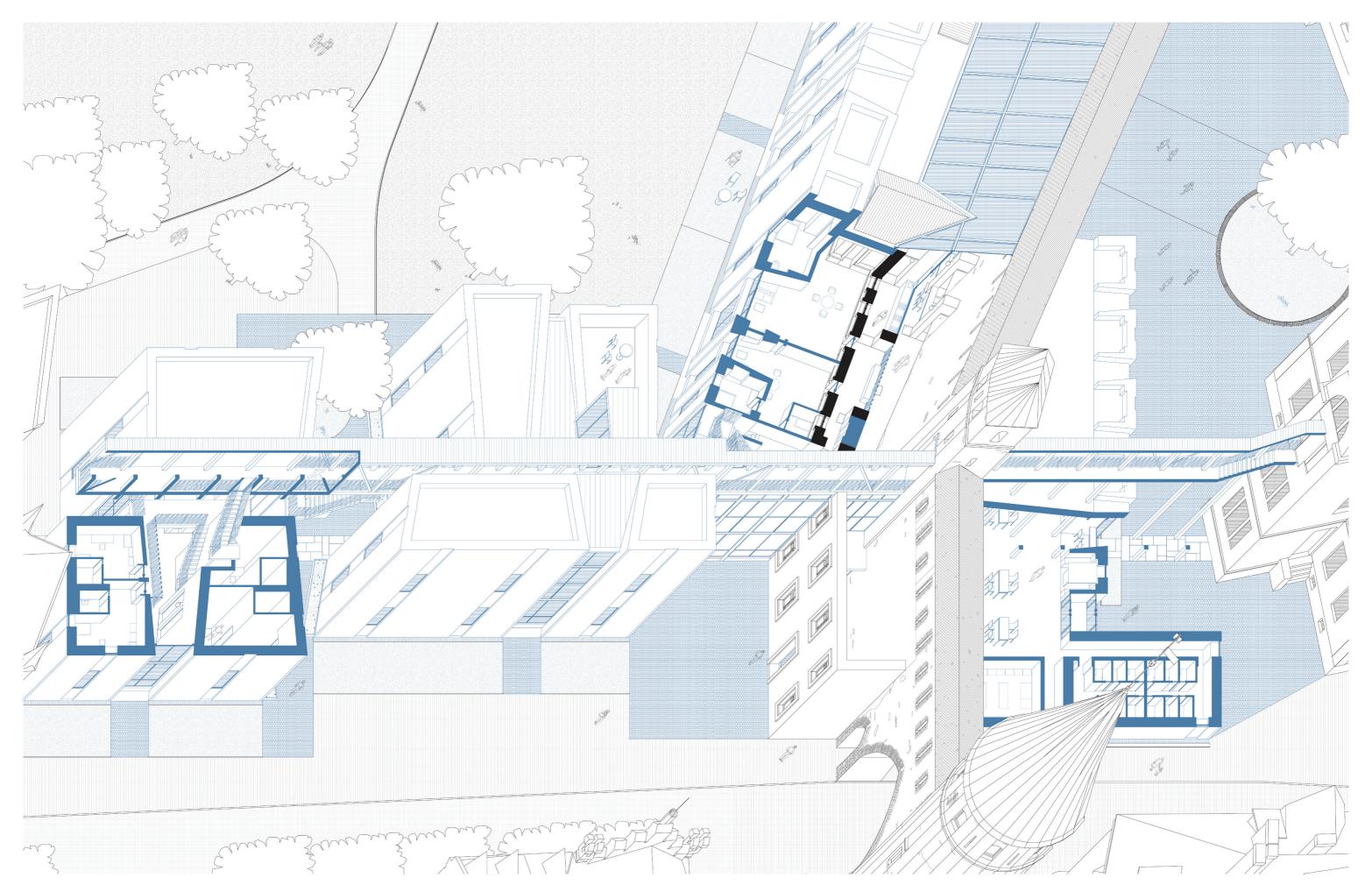


Perspective rendering of the student canteen





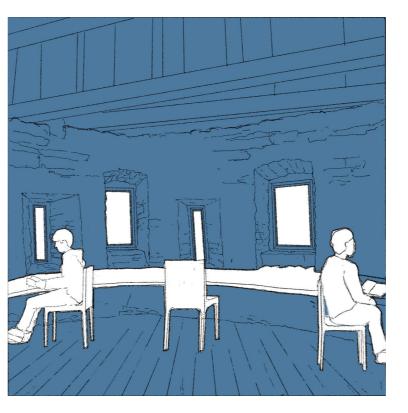
Villa Busk by Sverre Fehn. Source: Sverre Fehn Architects





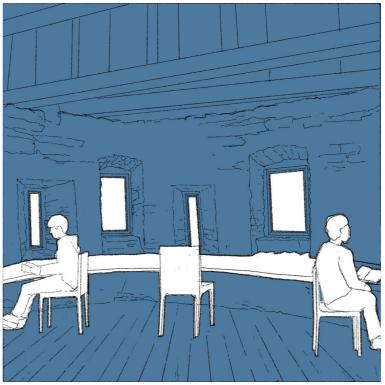
Sequential perspective drawings of the students leaving school





Sequential perspective drawings of the students leaving school







Sequential perspective drawings of the students leaving school

Research

Design

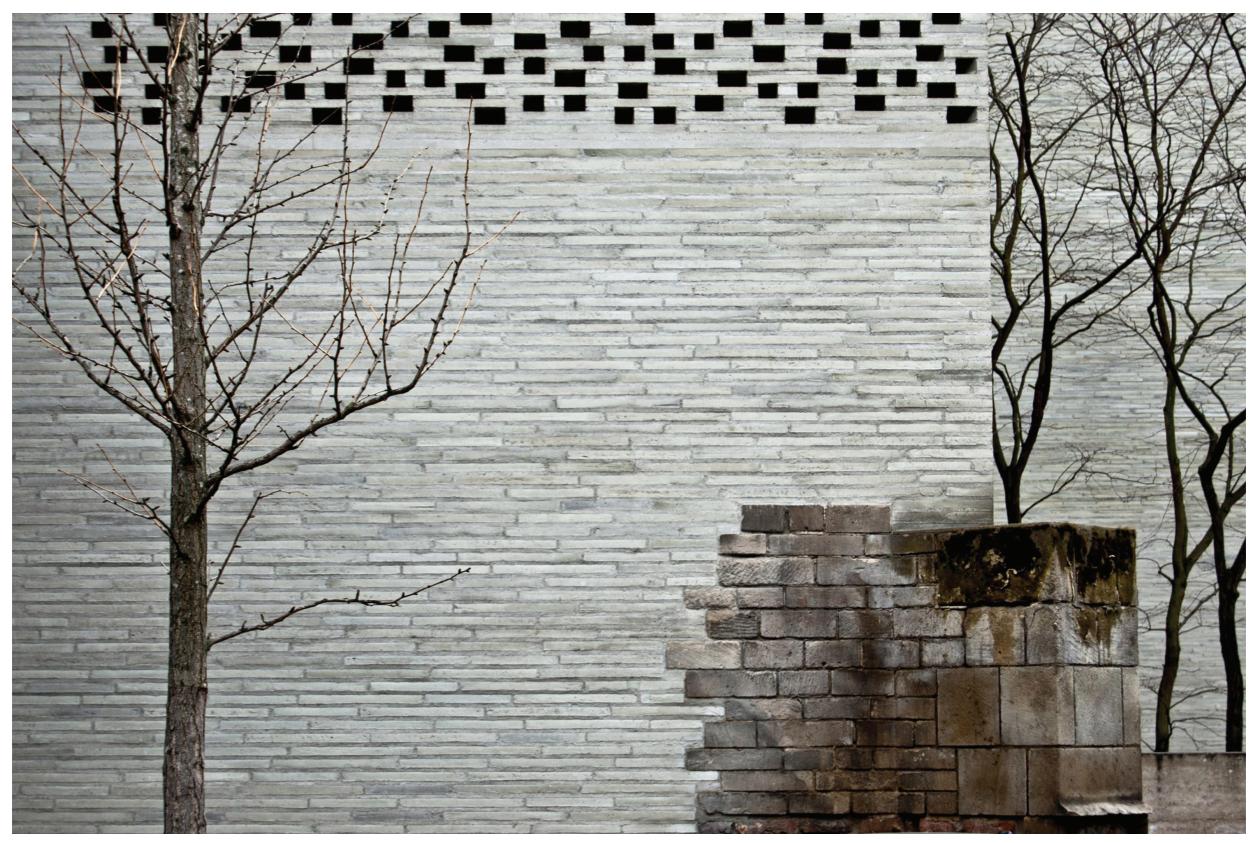
Construction

Conclusions

Constructing the thick wall

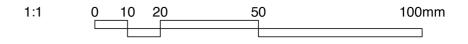


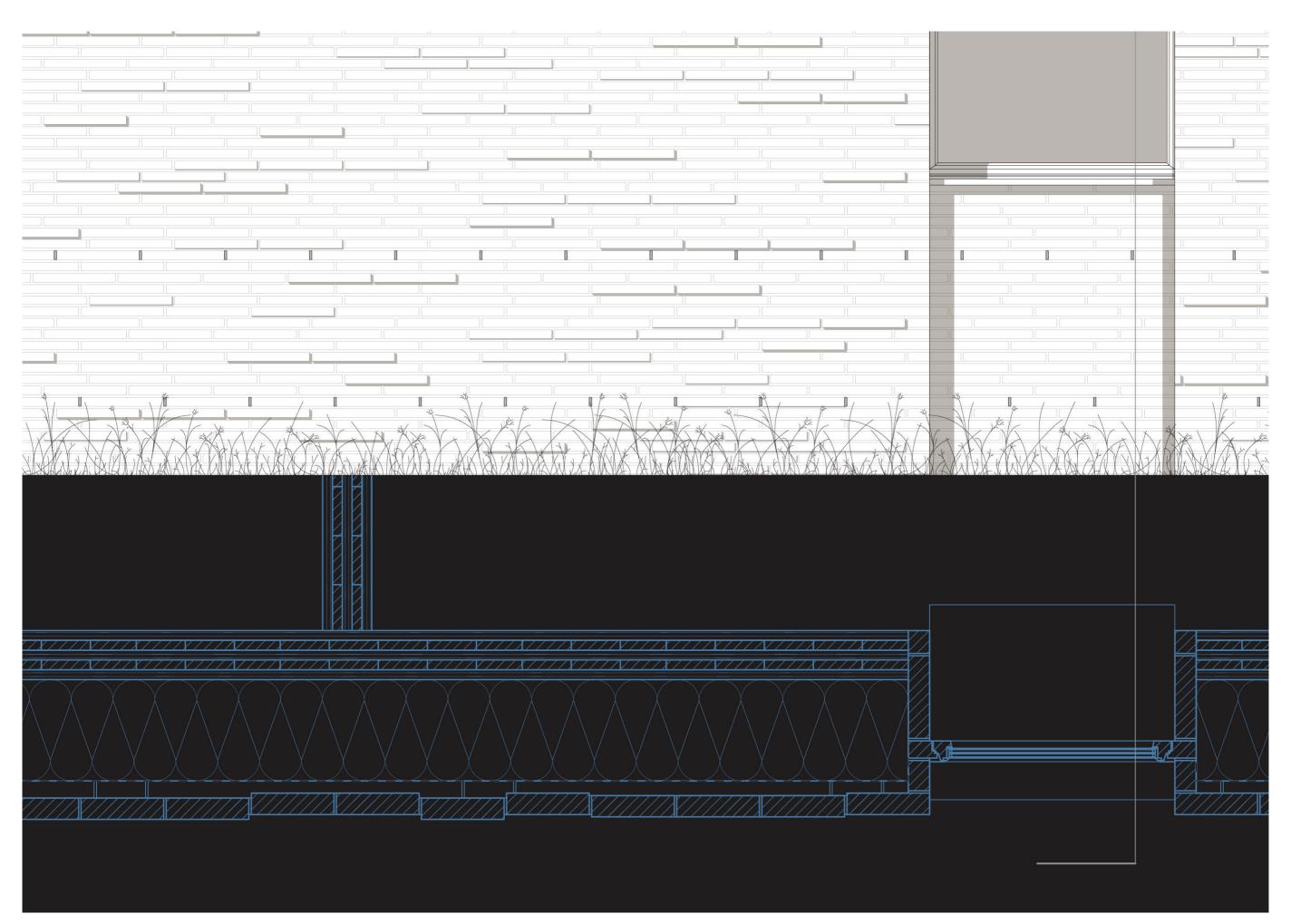
Texture of the city wall

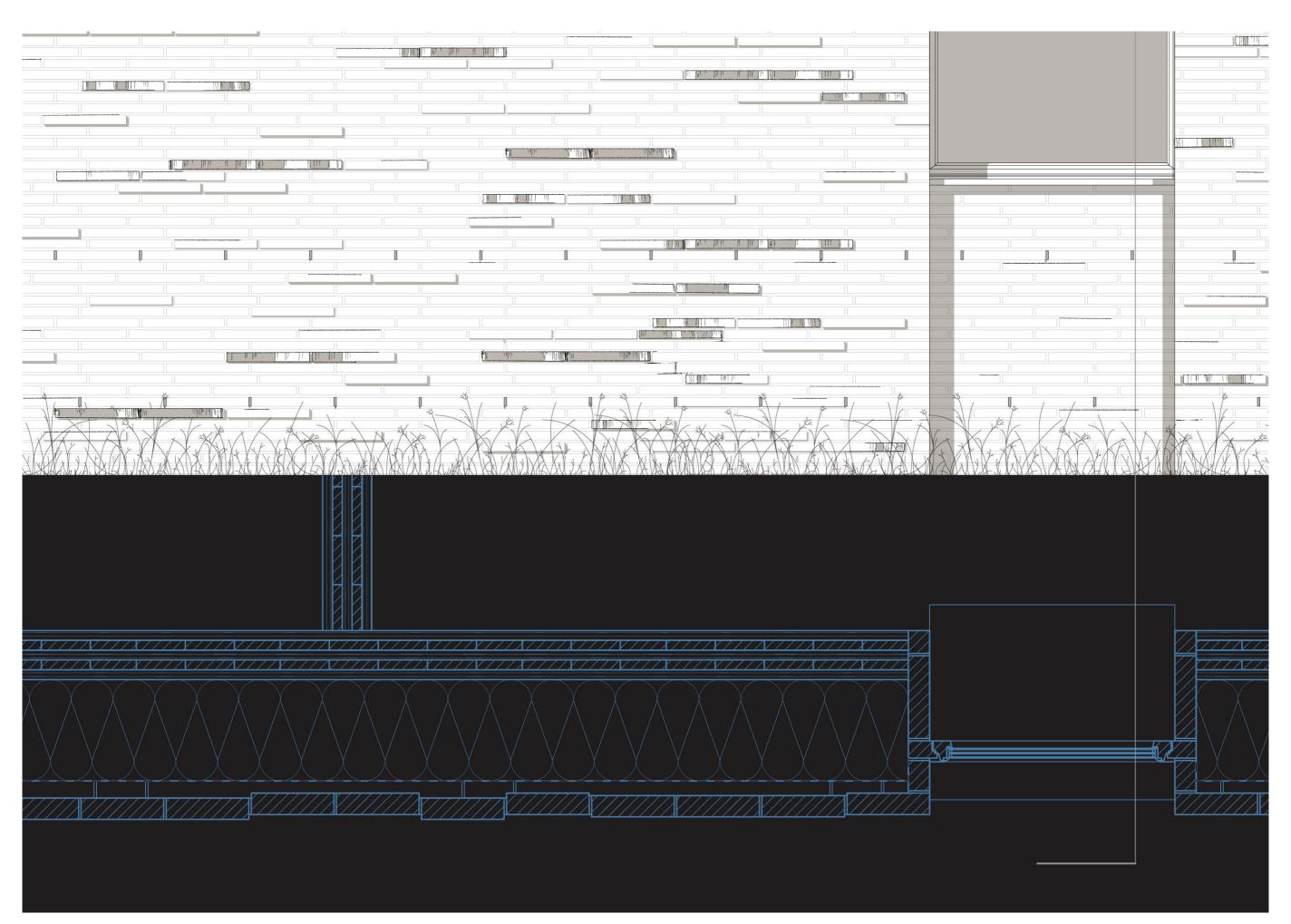


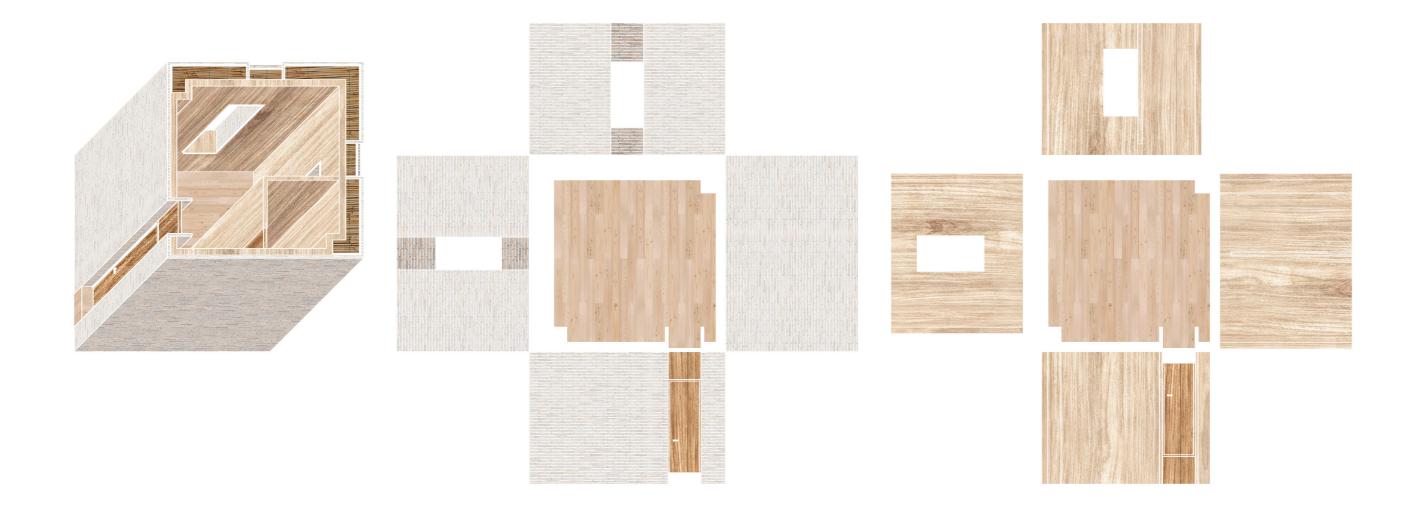
Texture of the brick facade of Kolumba Museum by Peter Zumthor. Source: Luis Rodriguez

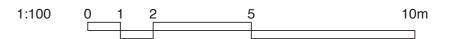














Thick reed roof in the Estonian Open Air Museum. Source: Vivien Steindler

Wooden wedges: 40 mm at 50 cm intervals Mineral wool thermal insulation: 50 mm

2

Bituminous roof sealant

Mineral wool thermal insulation: 80 mm

PO foil moisture barrier

Reed thermal insulation to falls: max. 500mm

PO foil moisture barrier

Cross laminated timber (5 ply): 120 mm

U-value: 0.114 W/(m²K)

.3

Linear grey bricks: 337/87/36 mm in random bond with grey mortar 30 mm ventilation gap 5 mm stainless steel bracket PO foil moisture barrier 330 mm reed thermal insulation Cross laminated timber (5 ply): 200 mm

U-value: 0.147 W/(m²K)

.

Linear grey bricks: 337/87/36 mm in random bond with grey mortar 50 mm ventilation gap 5 mm stainless steel bracket PO foil moisture barrier 400 mm reed thermal insulation Cross laminated timber (5 ply): 200 mm

U-value: 0.127 W/(m²K)

5

Bituminous roof sealant
Mineral wool thermal insulation: 80 mm
PO foil moisture barrier
Reed thermal insulation to falls: max. 500mm
PO foil moisture barrier
Cross laminated timber (5 ply): 120 mm

U-value: 0.114 W/(m²K)

6

Suspension with stainless steel brackets

7

Oak panels: 20 mm

8

Glued lam. fir beam: 300/120 mm

9

Linear grey bricks: 337/87/36 mm in random bond with grey mortar Cross laminated timber (5 ply): 200 mm

10

Triple-glazed in pine frame

11

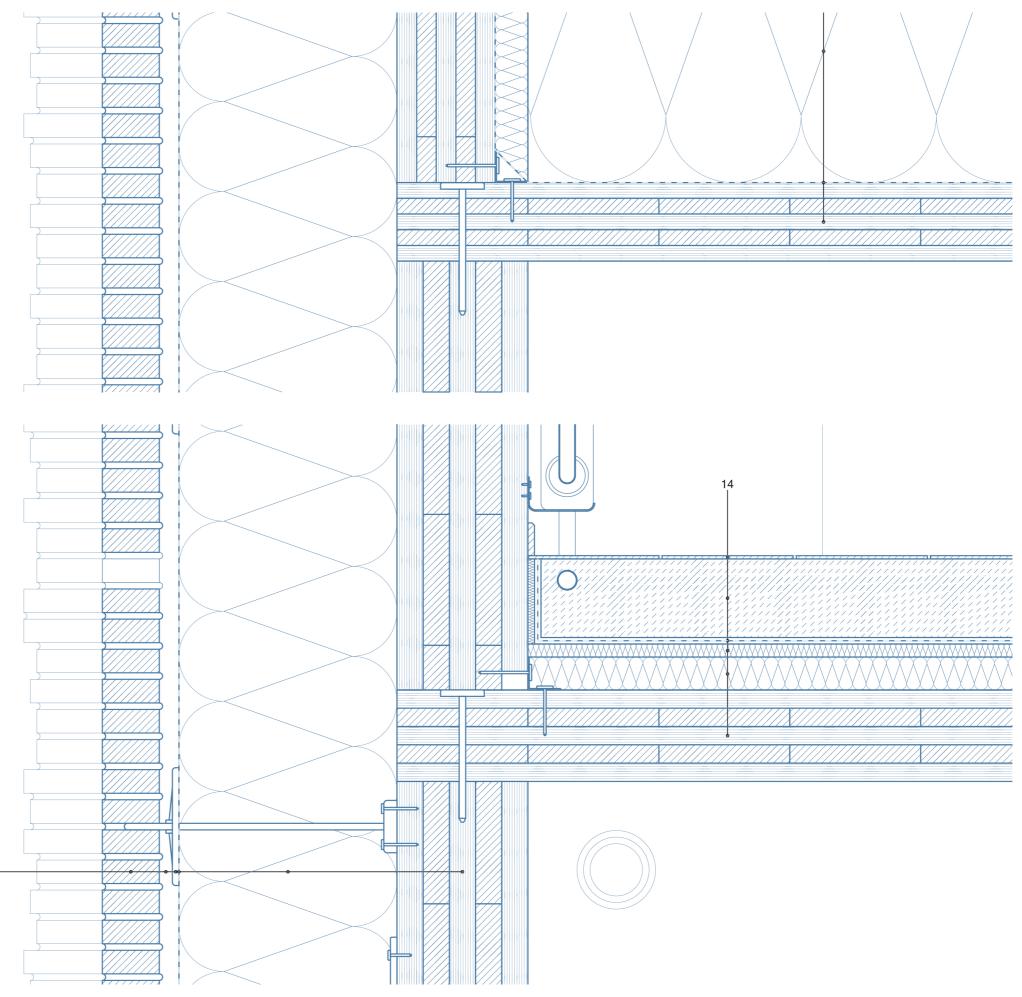
Aluminum sheet: 2mm

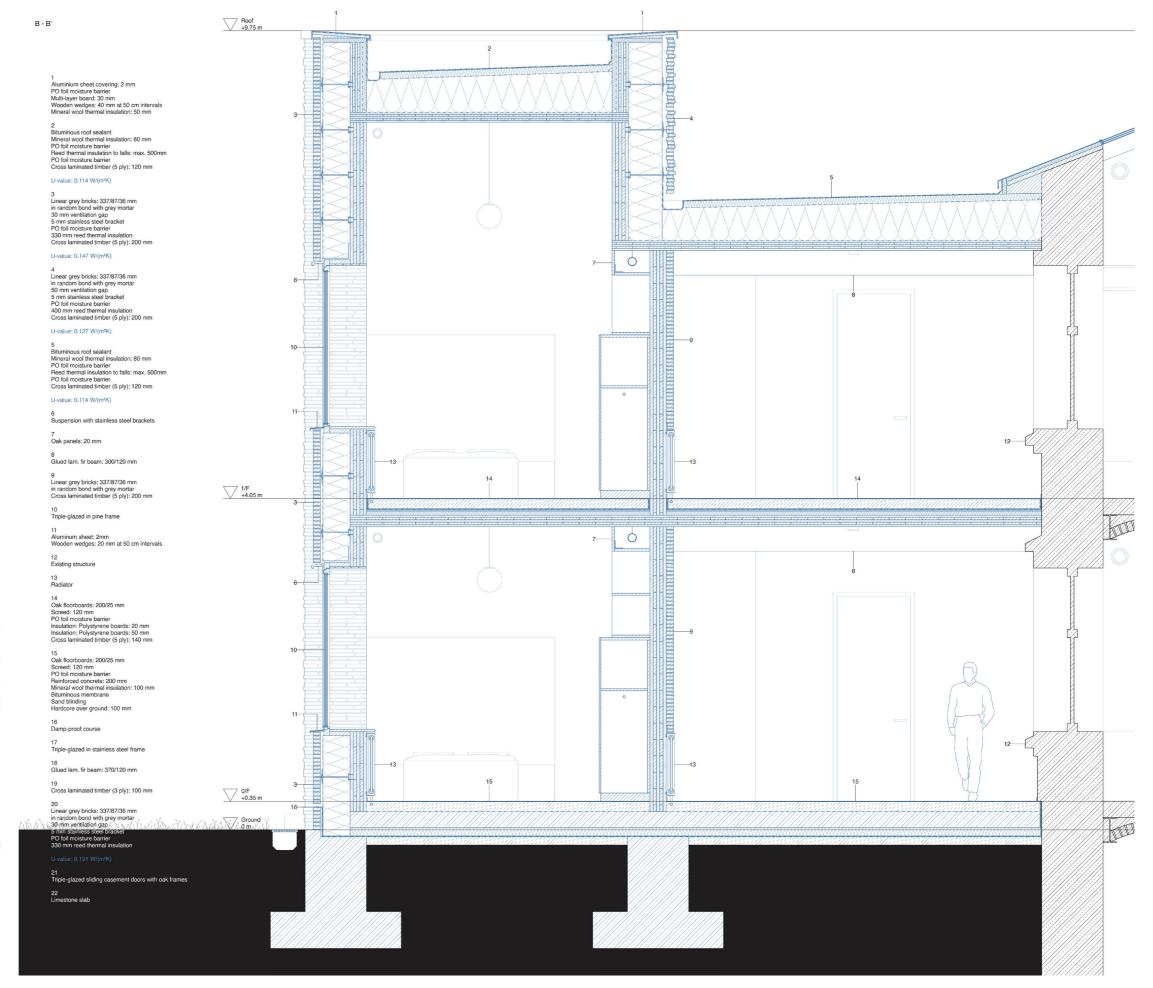
Wooden wedges: 20 mm at 50 cm intervals

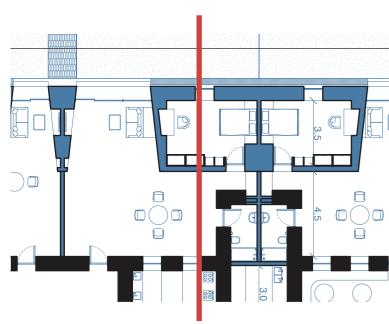
12

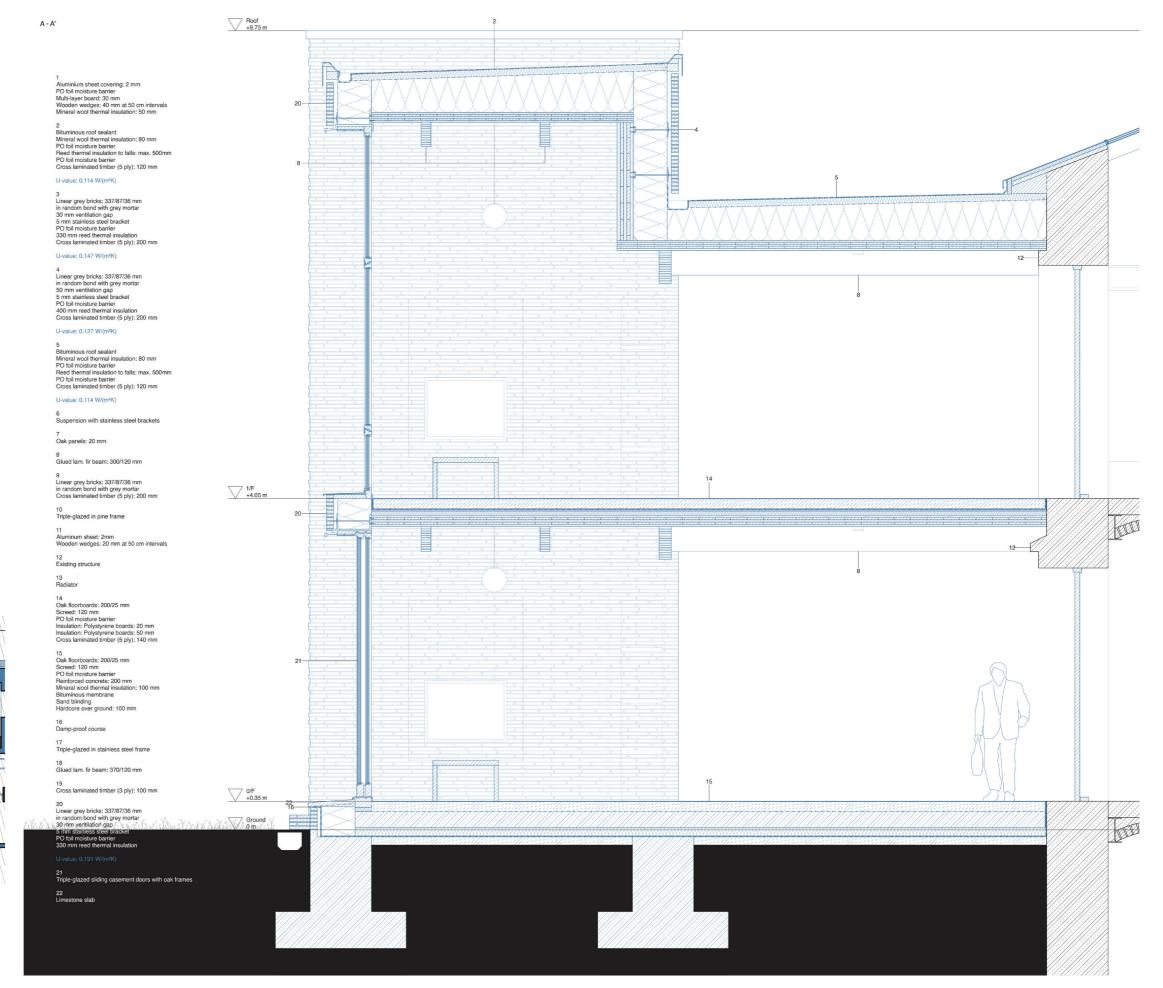
Existing structure

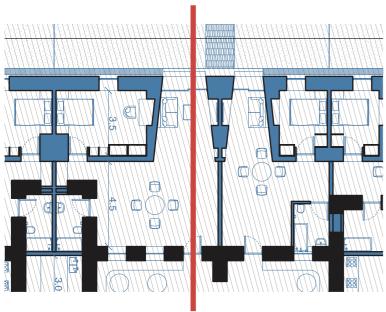
13 Dadiatar

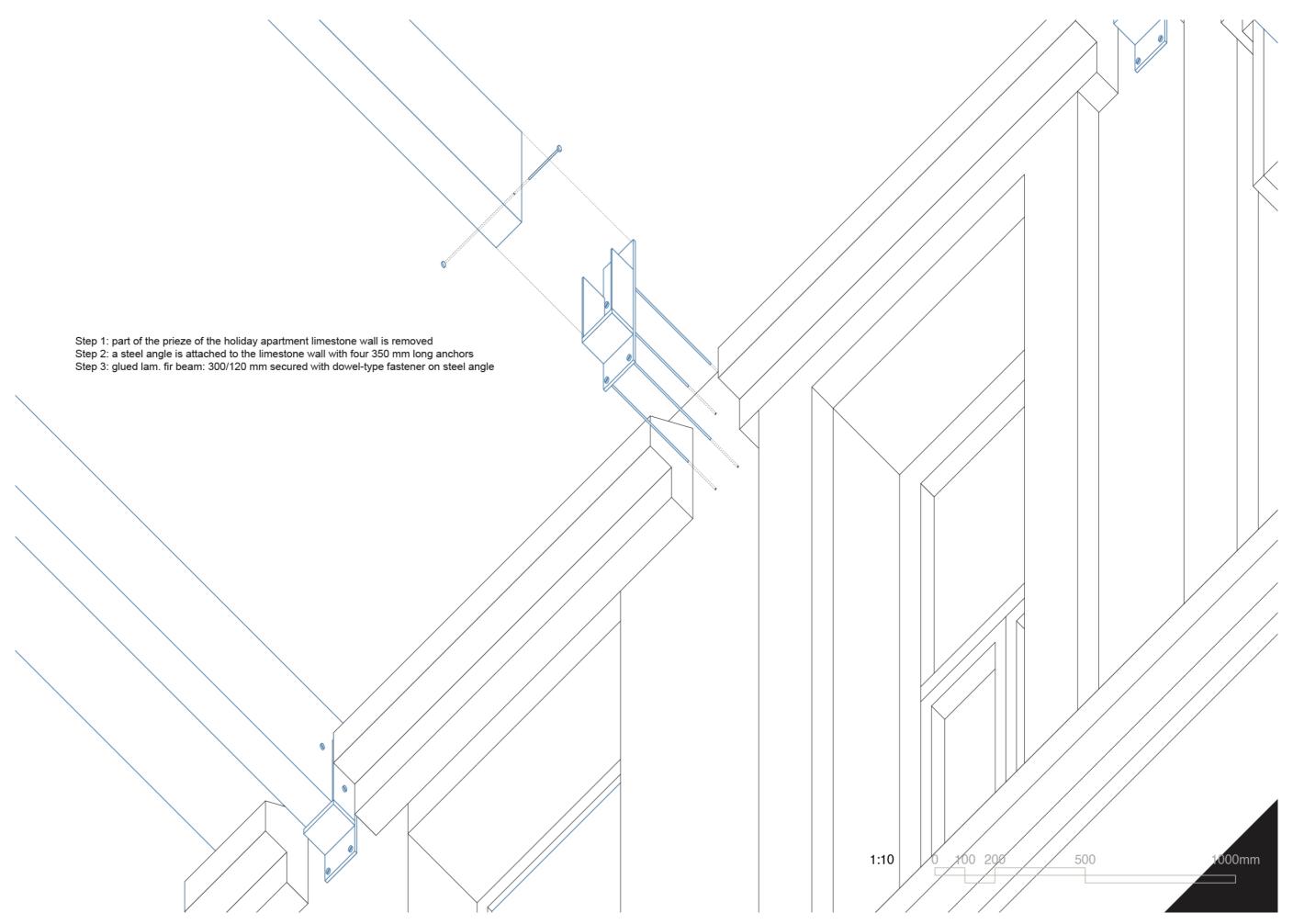


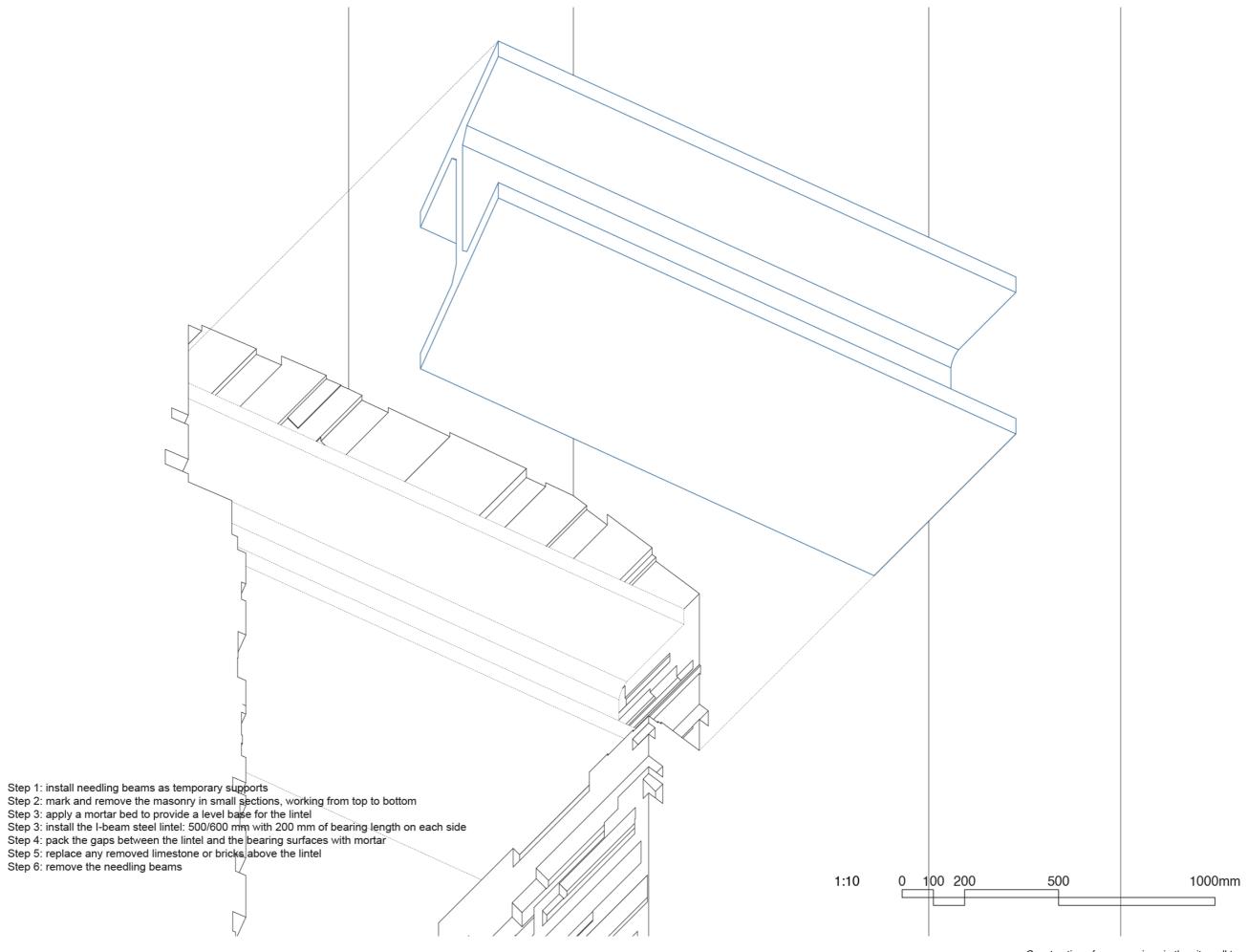




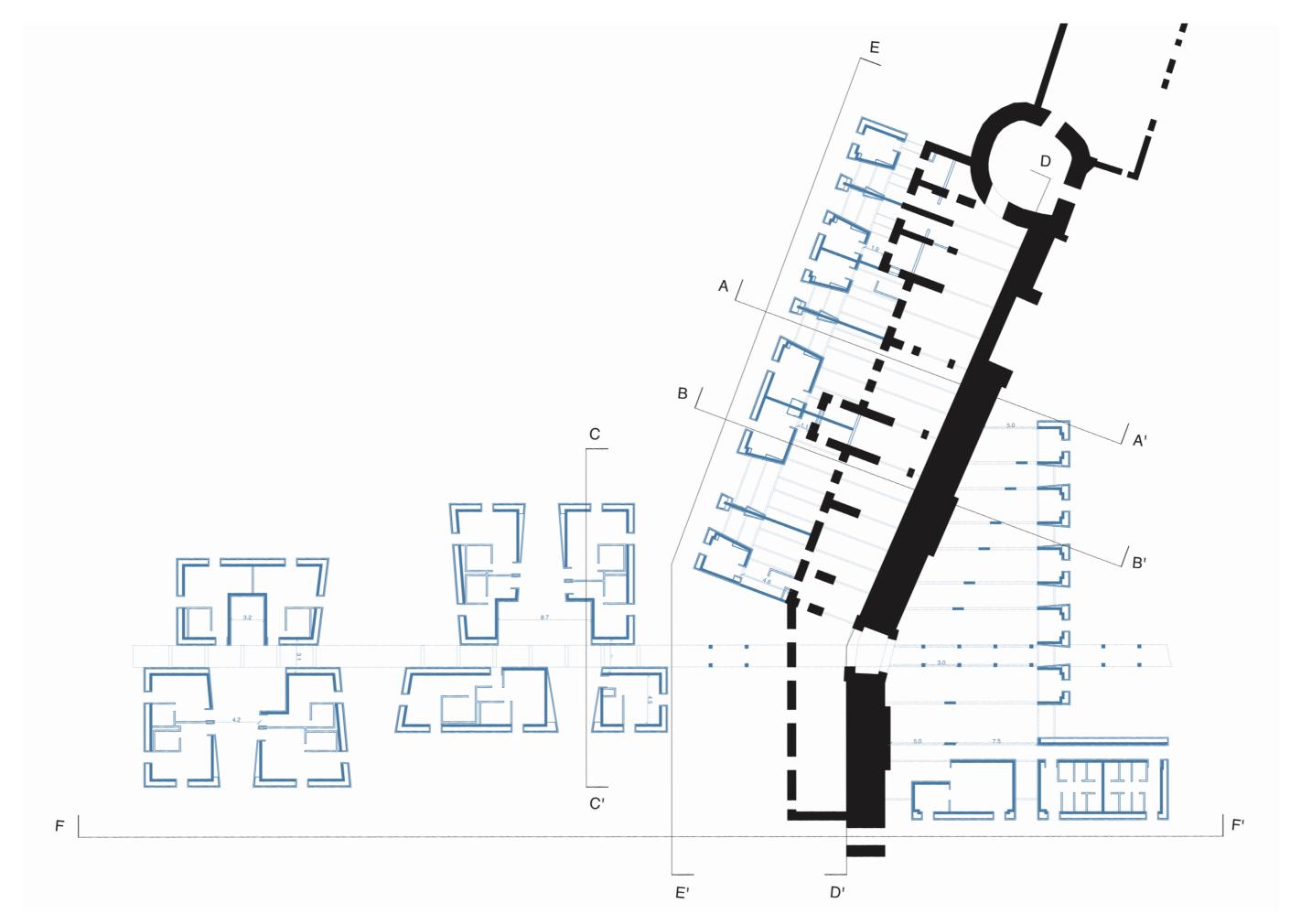


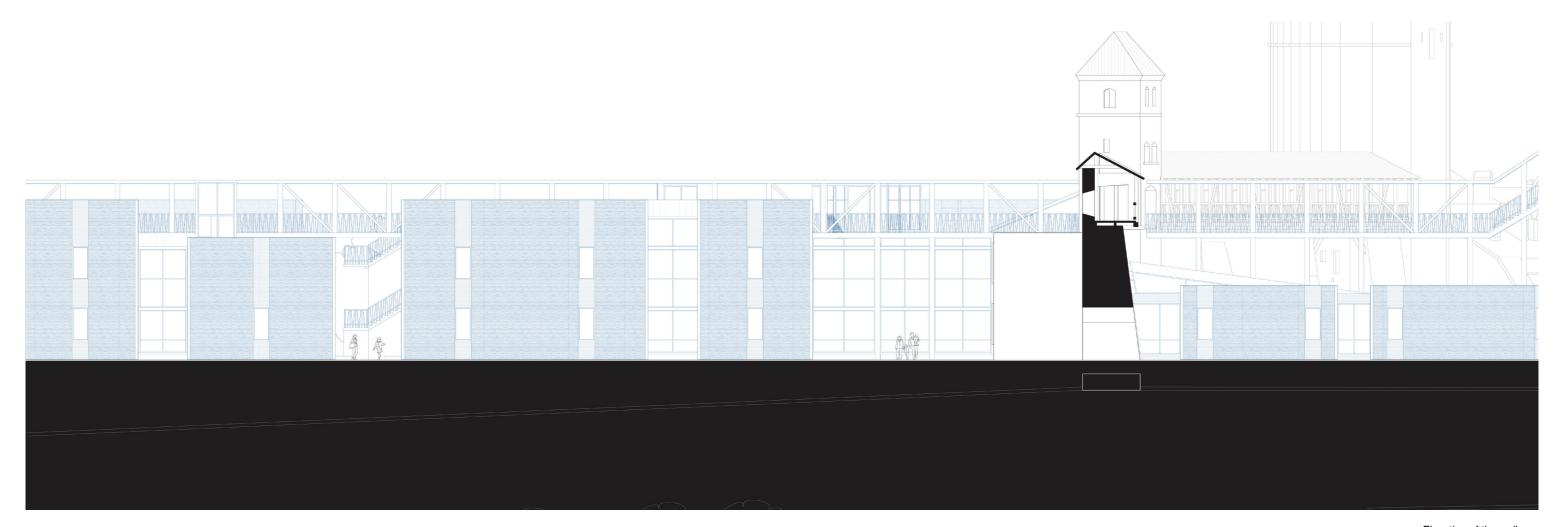




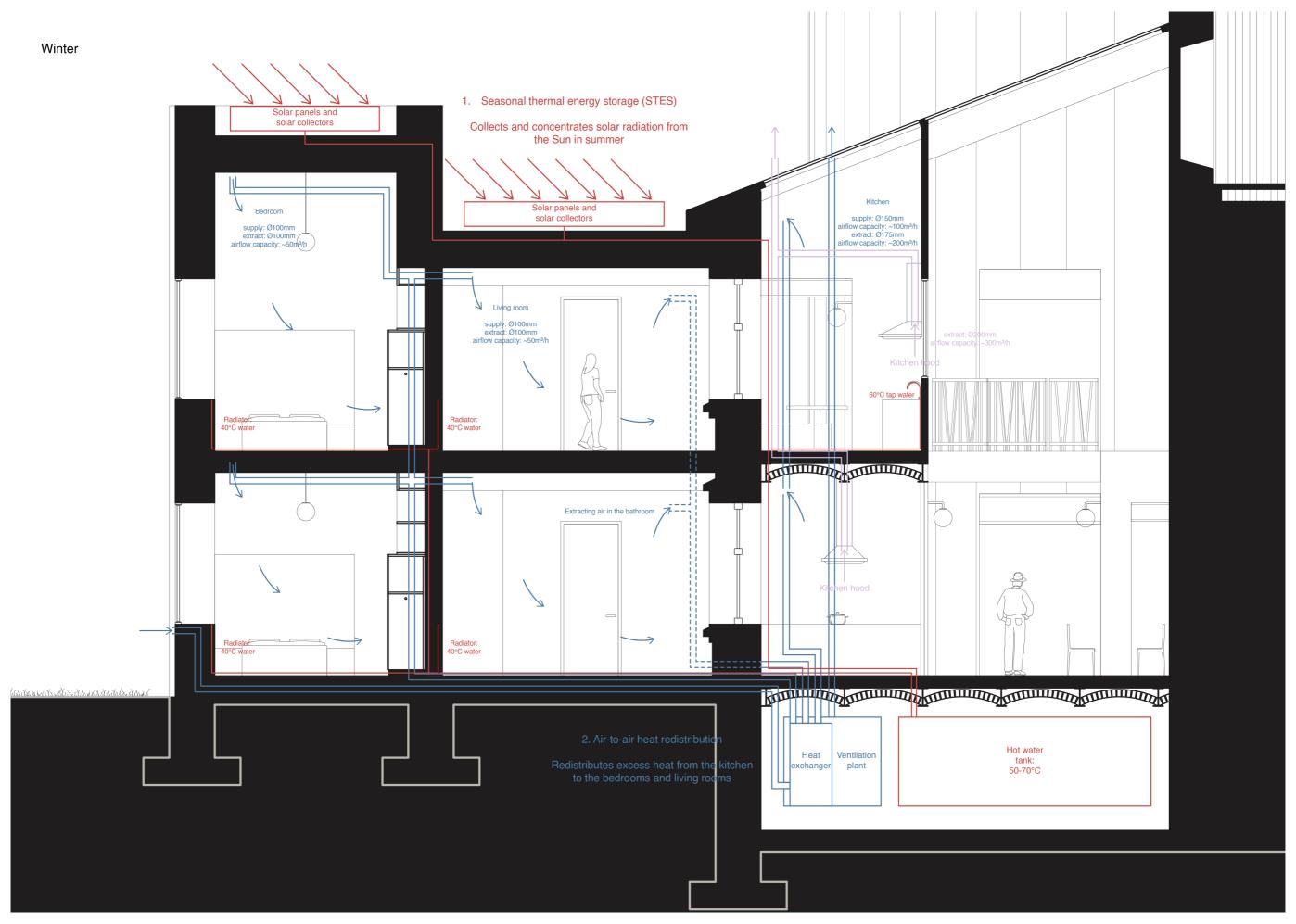


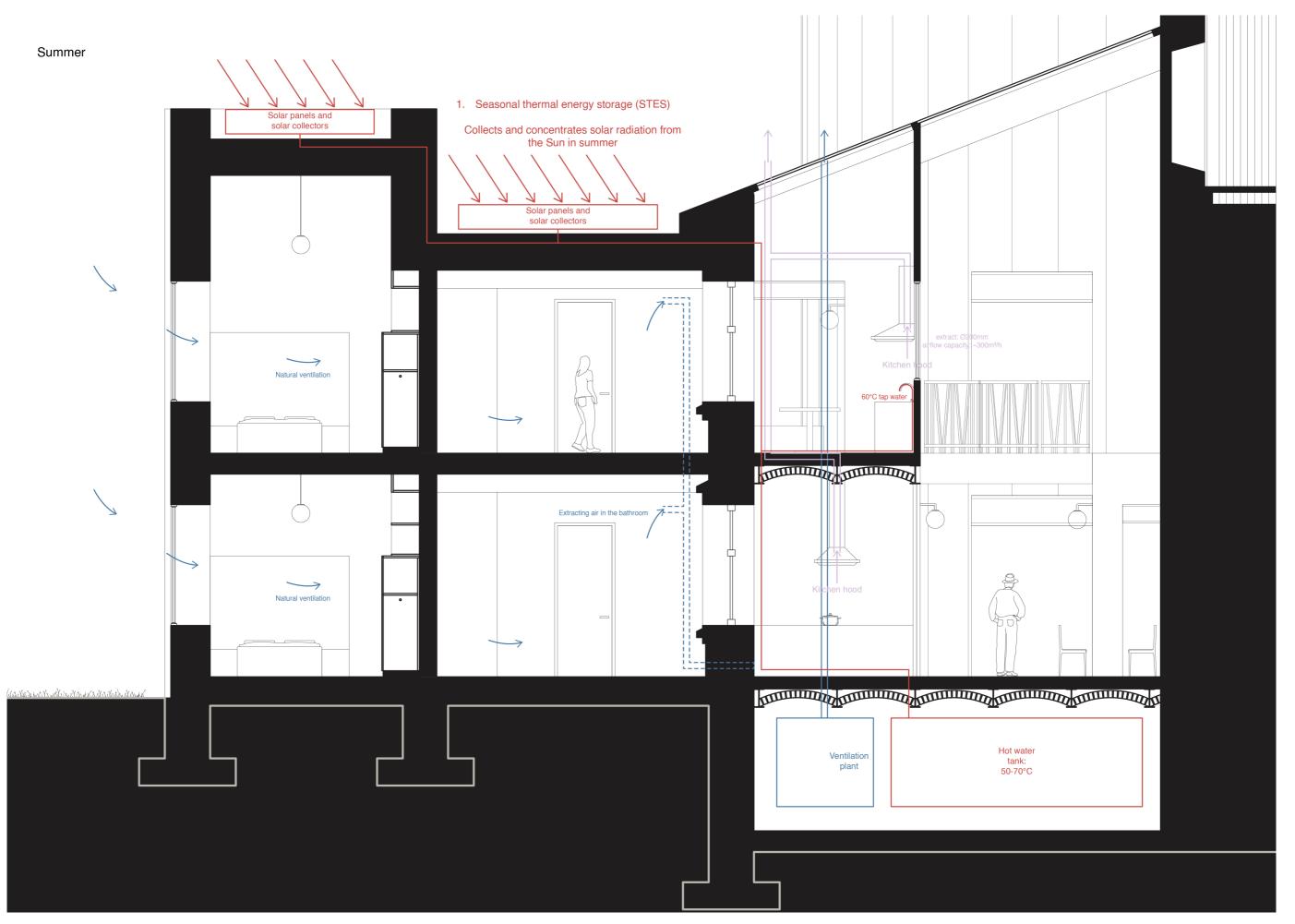
Constructing the walkway

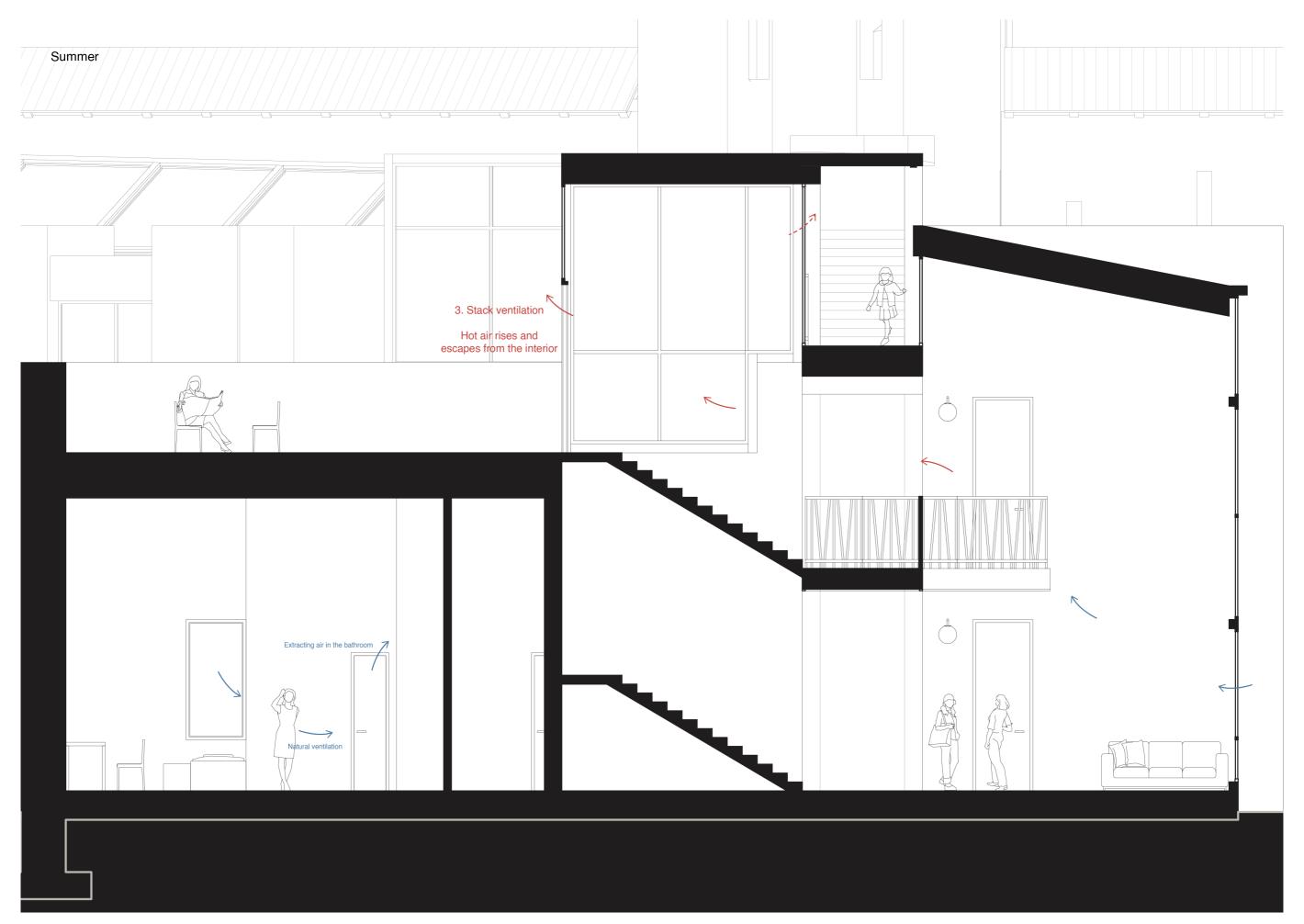




Elevation of the walkway







Research

Design

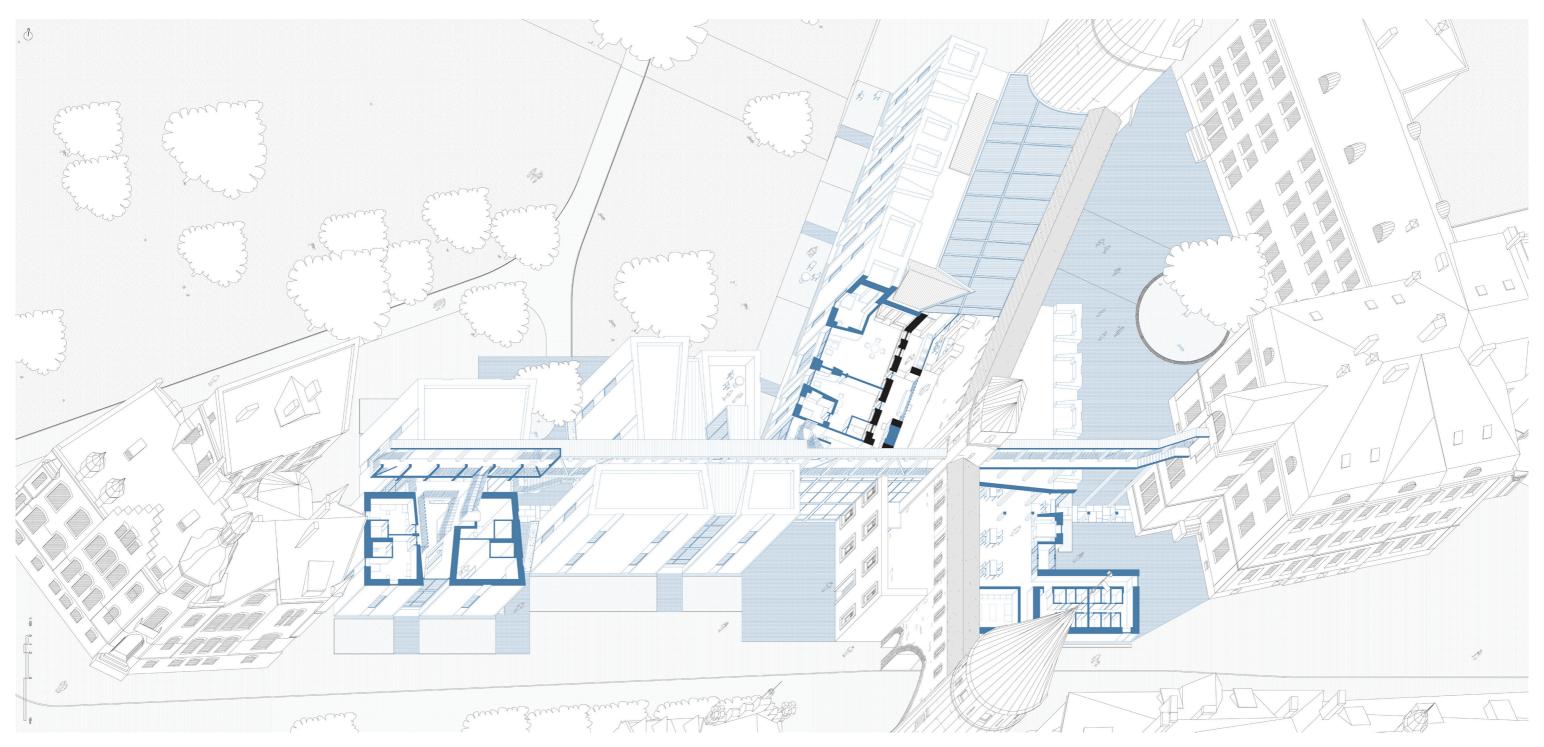
Construction

Conclusions

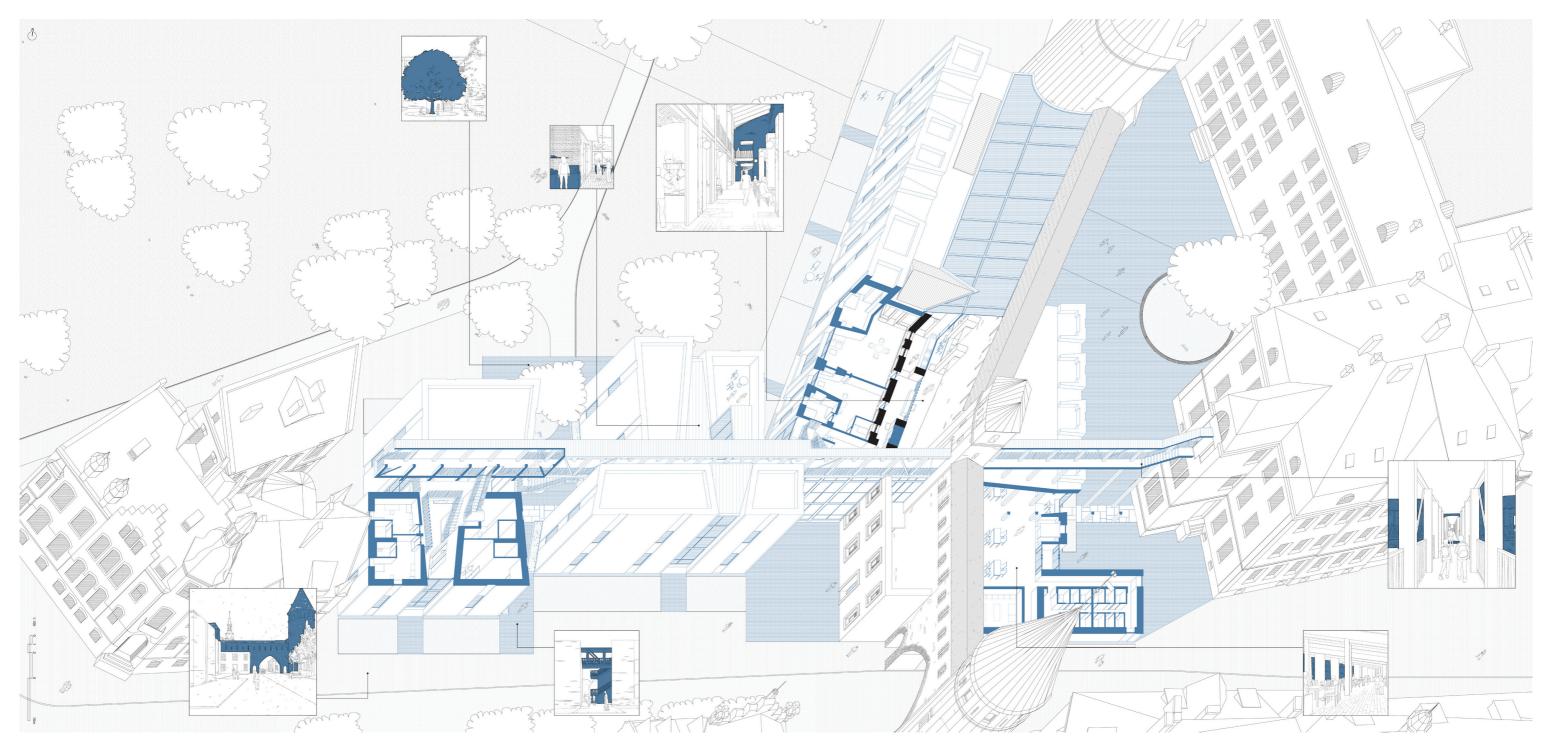


From dividing to connecting

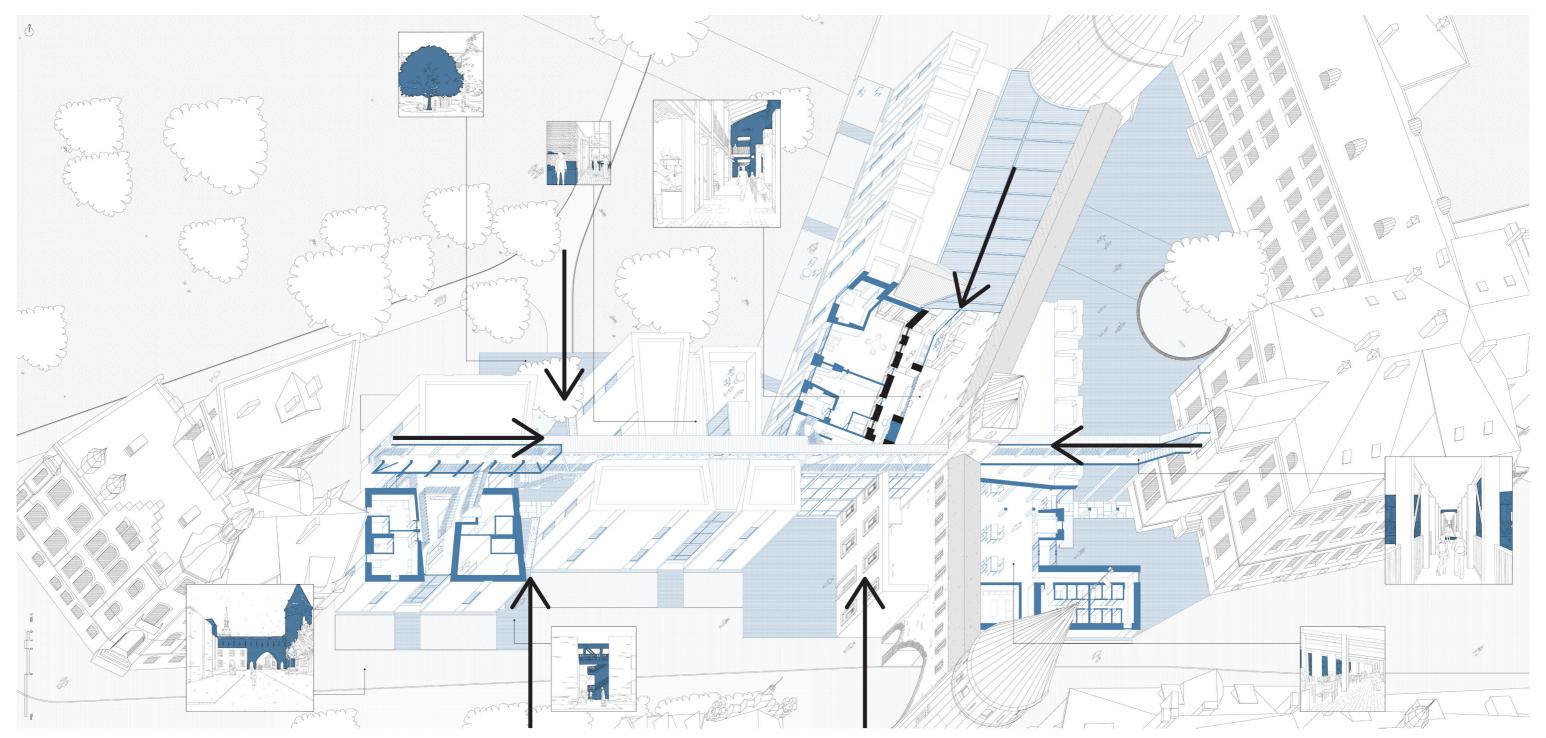
From repelling to inviting



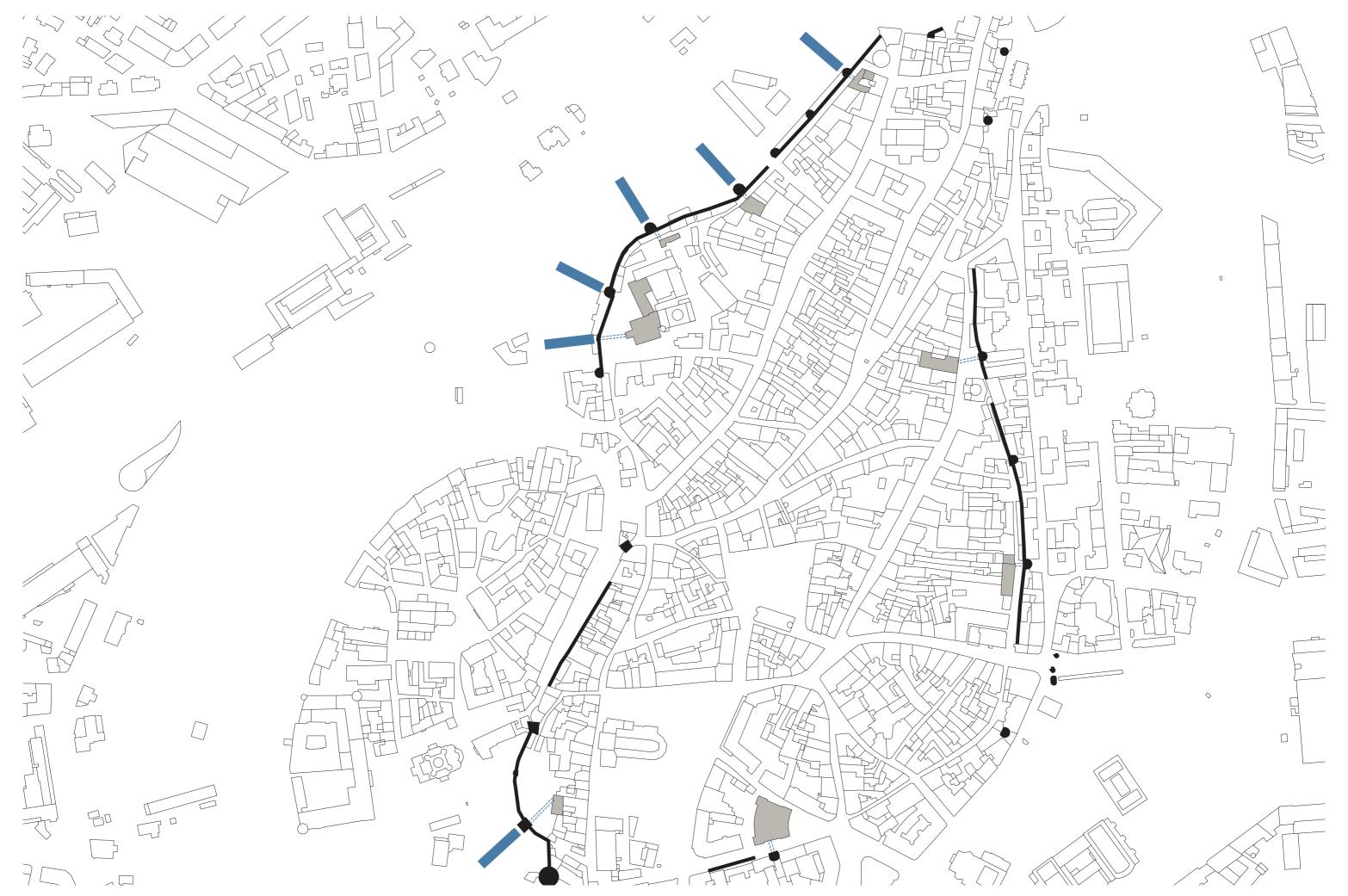
Cut-away axonometric drawing



Cut-away axonometric drawing with perspective details



Cut-away axonometric drawing with perspective details



Can a wall built to separate become a path that connects?



Thank you!