



Graduation Project P5

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代尔夫特理工大学

Antwerp, Belgium

interiors buildings cities

▪ Research & Concept

City structure

Historical timeline of De Singel

Function analyse

Problems

Ideas

概念

城市结构

历史线

研究问题

▪ Design

P1 inspiration

Herzog & de Meuron Kabinett

Floor plans

Sections

Facade

启发

小组研究项目

技术图纸

结构

气候设计

构造大样

▪ BT

Construction

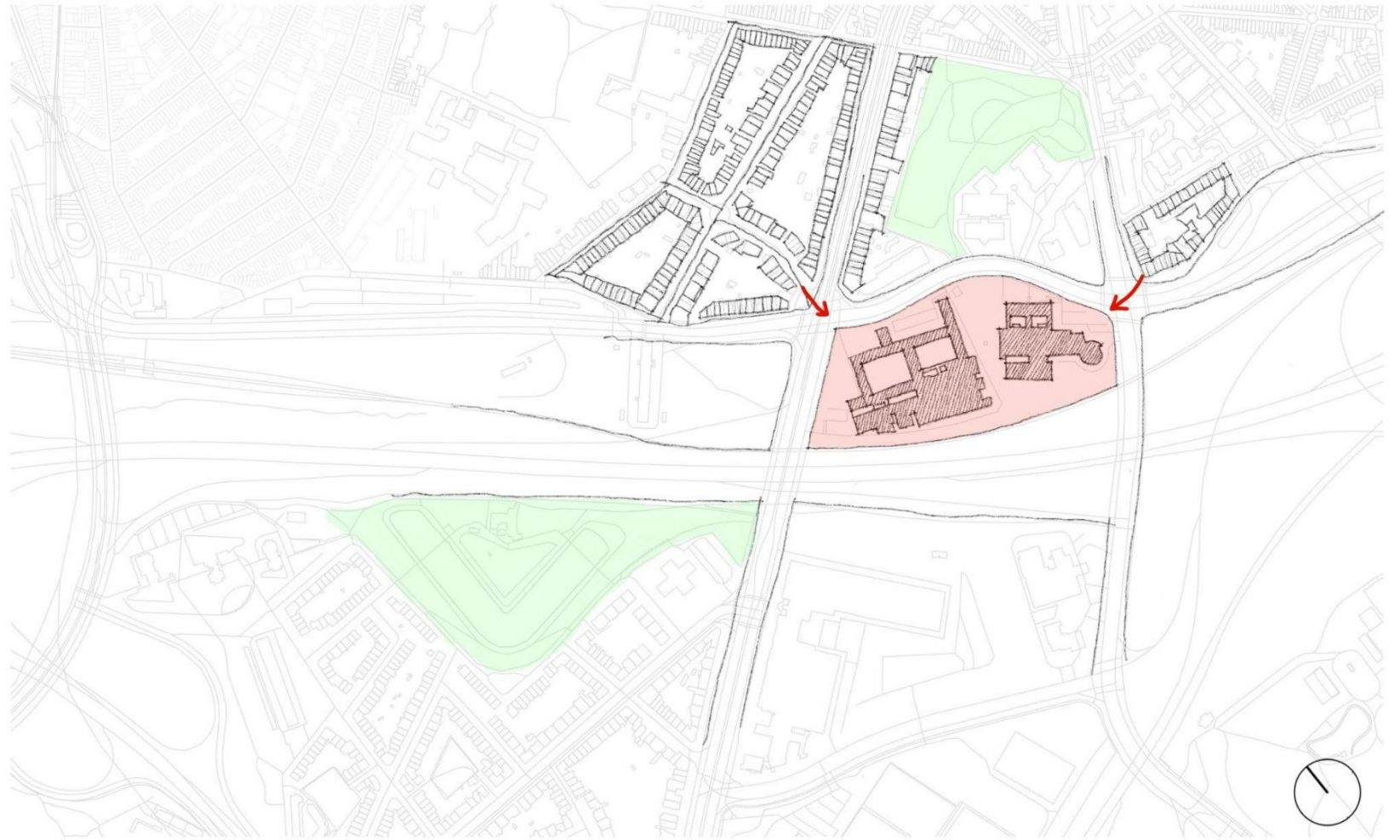
Climate design

Section and Facade

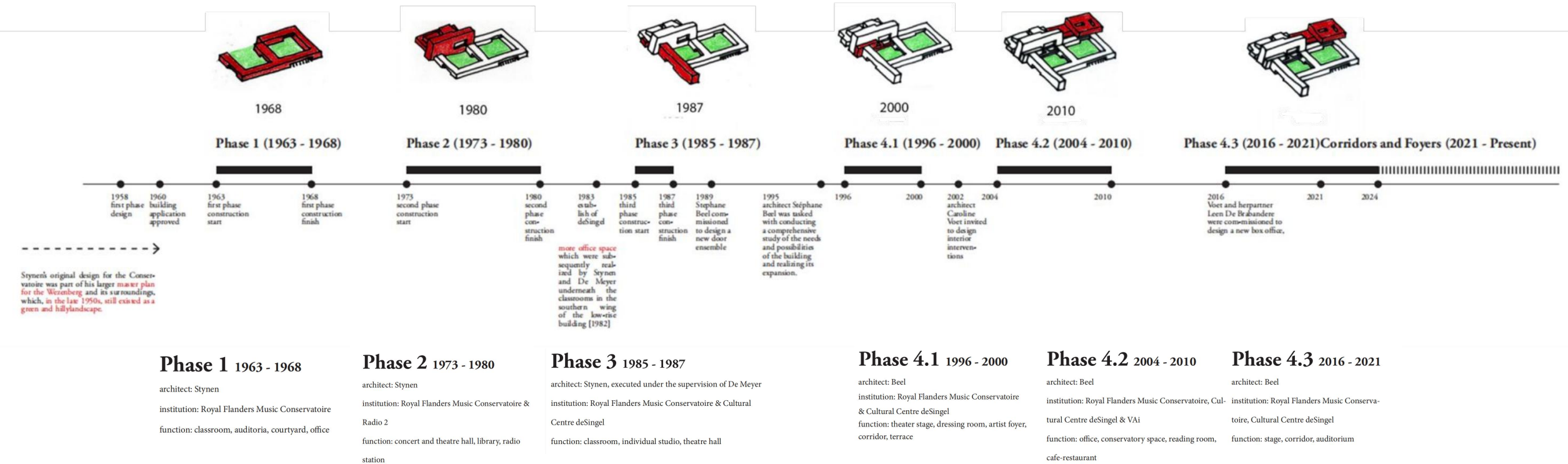
Technical drawings

De Singel

- Isolated
- Residential block
- Archive entrance



Historical timeline



Historical timeline

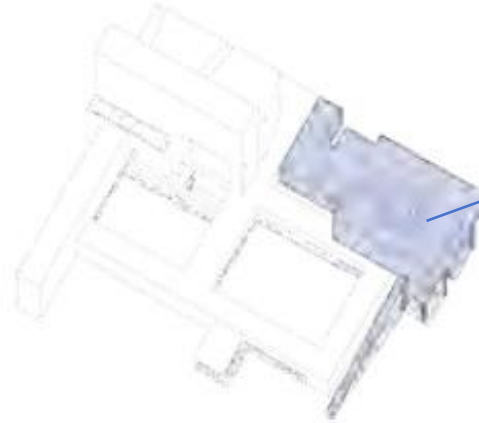


Phase 1 1963 - 1968

architect: Stynen

institution: Royal Flanders Music Conservatoire

function: classroom, auditoria, courtyard, office



Phase 4.1 1996 - 2000

architect: Beel

institution: Royal Flanders Music Conservatoire
& Cultural Centre deSingel

function: theater stage, dressing room, artist foyer,
corridor, terrace



Phase 4.2 2004 - 2010

architect: Beel

institution: Royal Flanders Music Conservatoire, Cul-
tural Centre deSingel & VAI

function: office, conservatory space, reading room,
cafe-restaurant

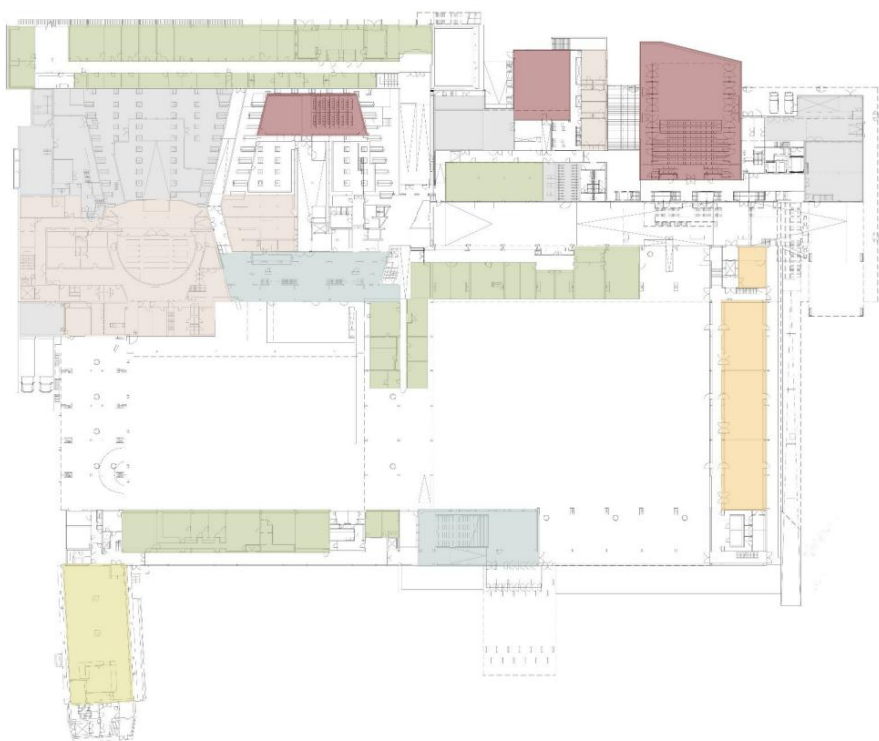
Phase 4.3 2016 - 2021

architect: Beel

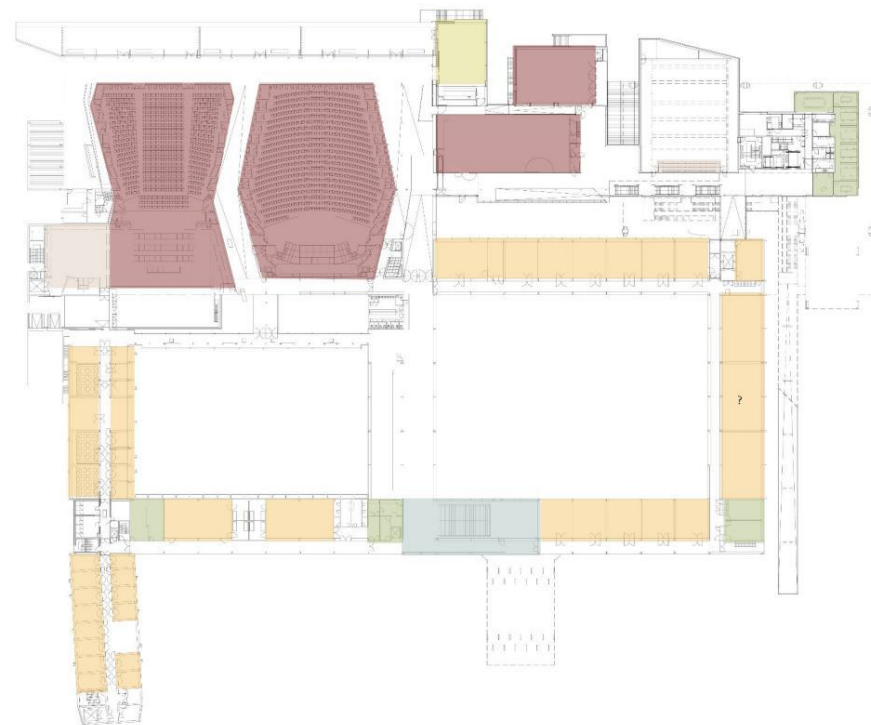
institution: Royal Flanders Music Conserva-
toire, Cultural Centre deSingel

function: stage, corridor, auditorium

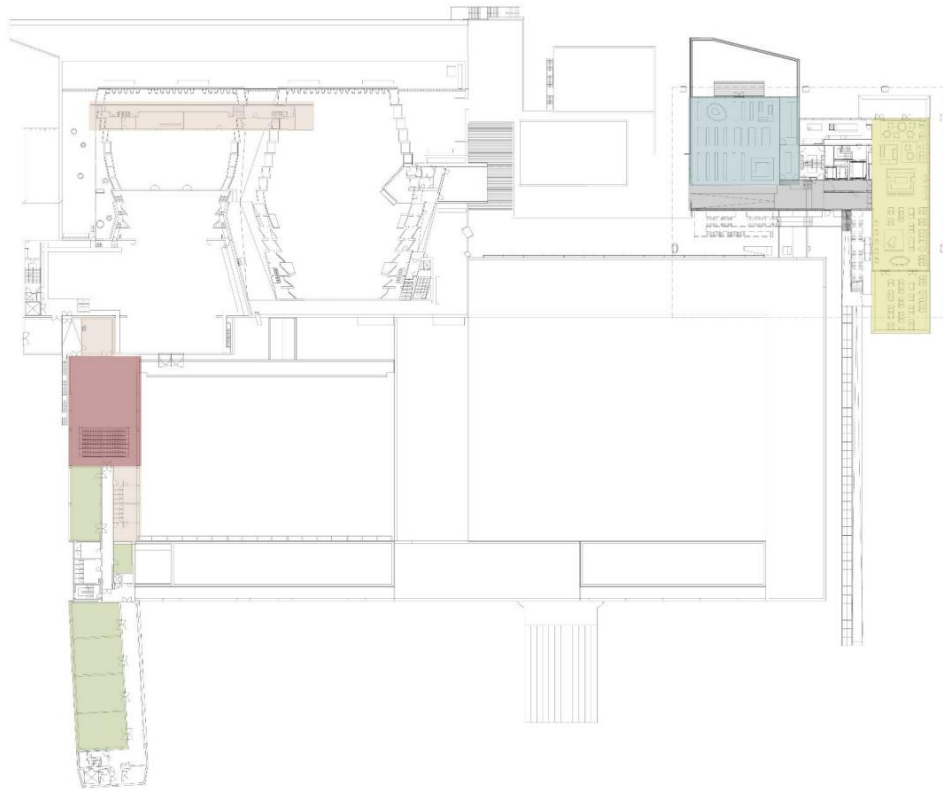
Function (now)



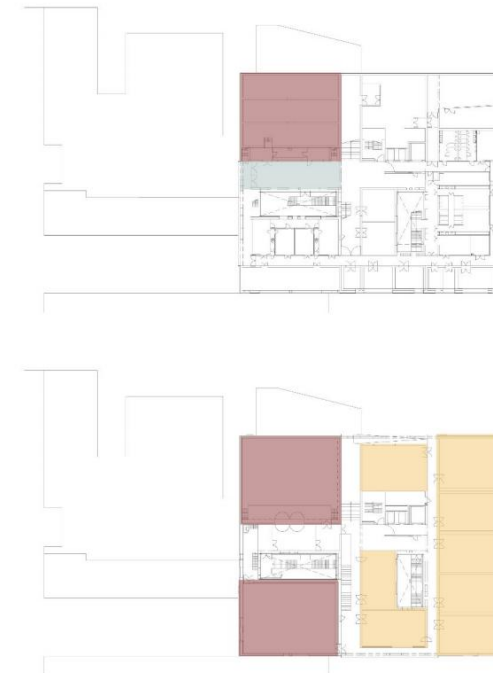
- Entrance hall
- Library
- Office
- Hall
- Backstage
- Classroom
- Restaurant
- Logistic



Function (now)

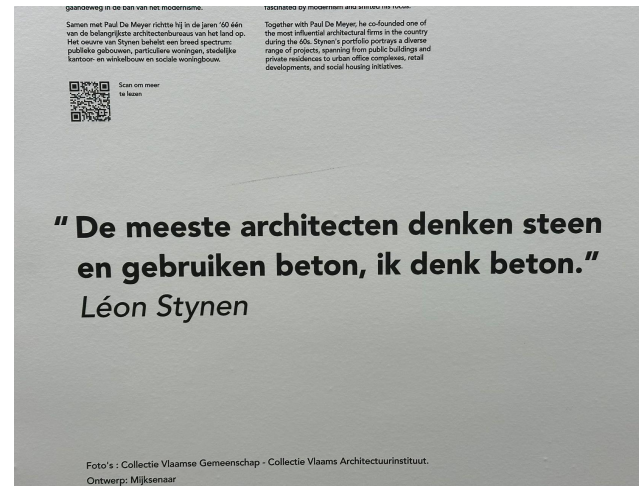


- Entrance hall
- Library
- Office
- Hall
- Backstage
- Classroom
- Restaurant
- Logistic

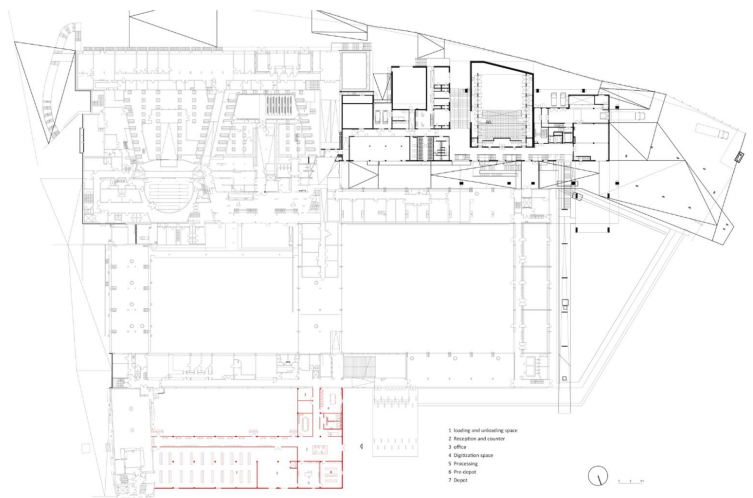


Potential problems

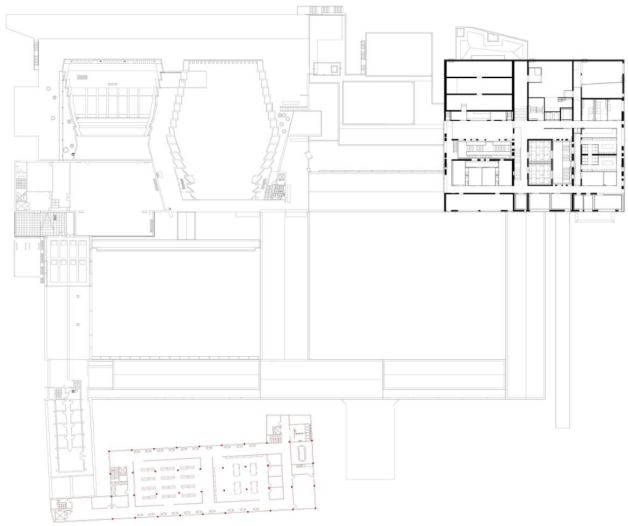
- Complicated circulation (different phases)
- Relation with surrounding environment
- Sustainable design



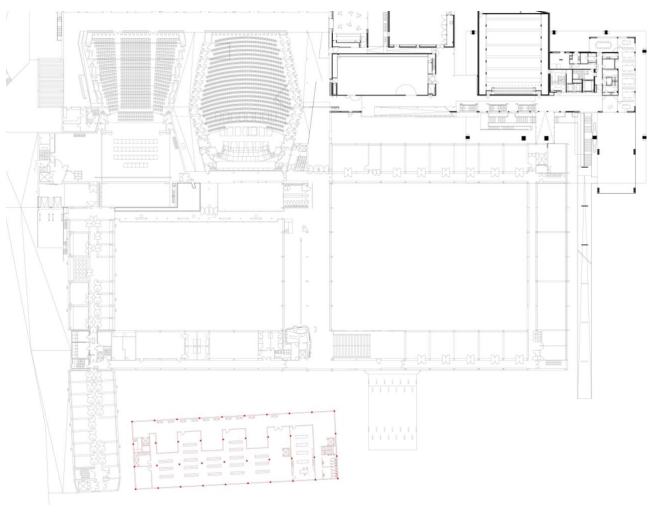
Development



P2



P3

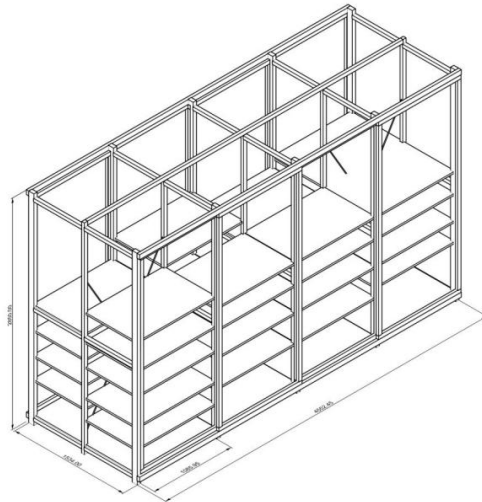


P4



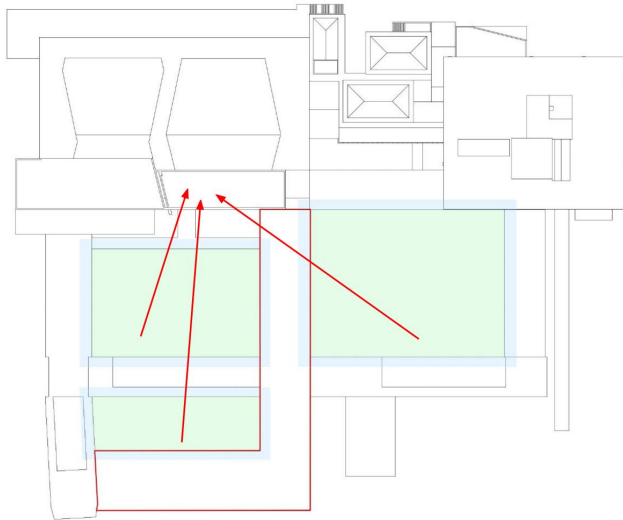
Inspiration: Herzog & de Meuron Kabinett

- Cabinet
- The kabinetts are used for both archive and external exhibitions
- Two versions:
 - Solid pine (inhouse exhibitions)
 - Laminated wood (demountable)

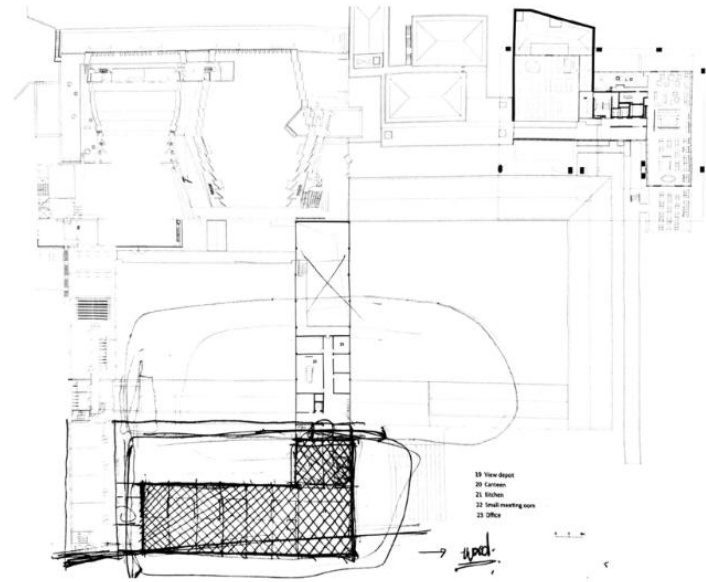




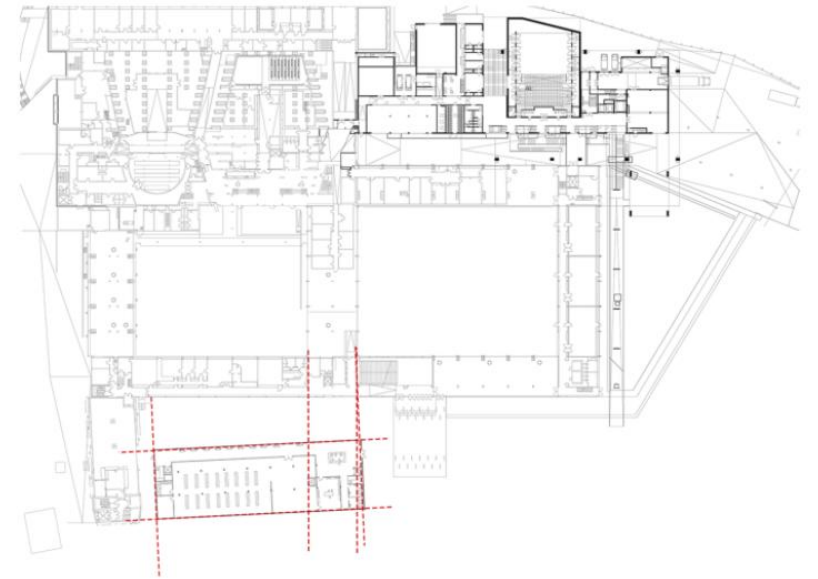
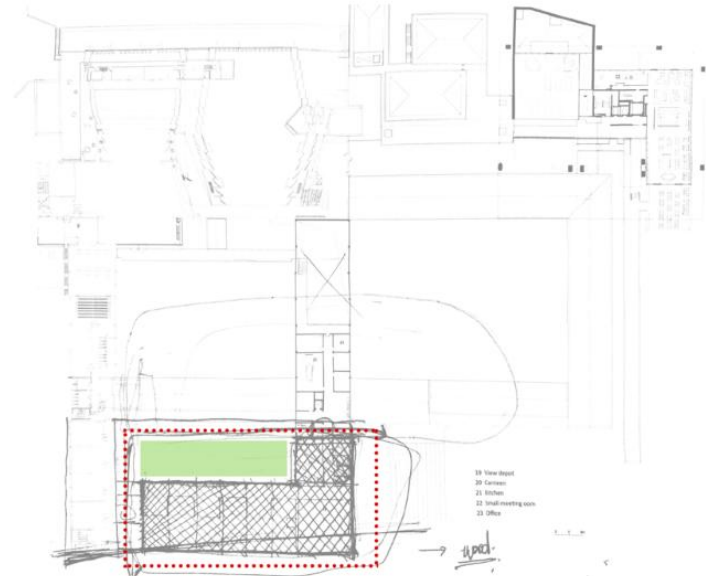
Courtyard



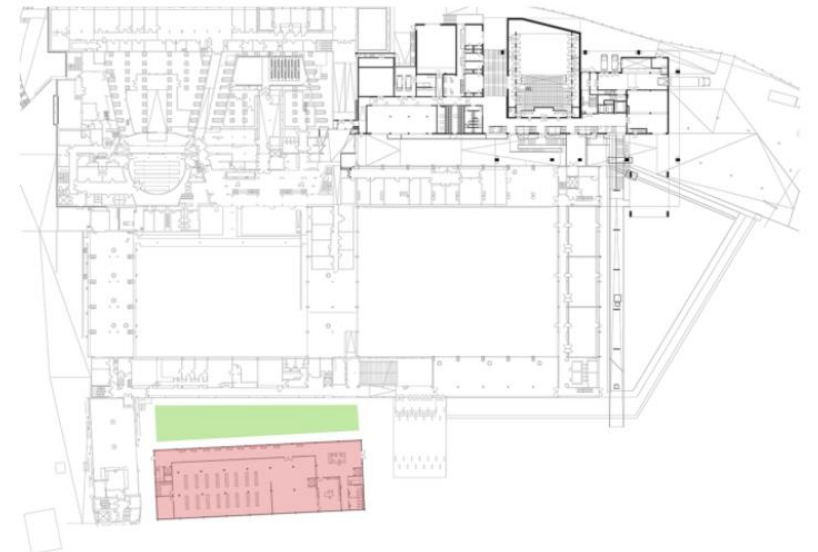
P2



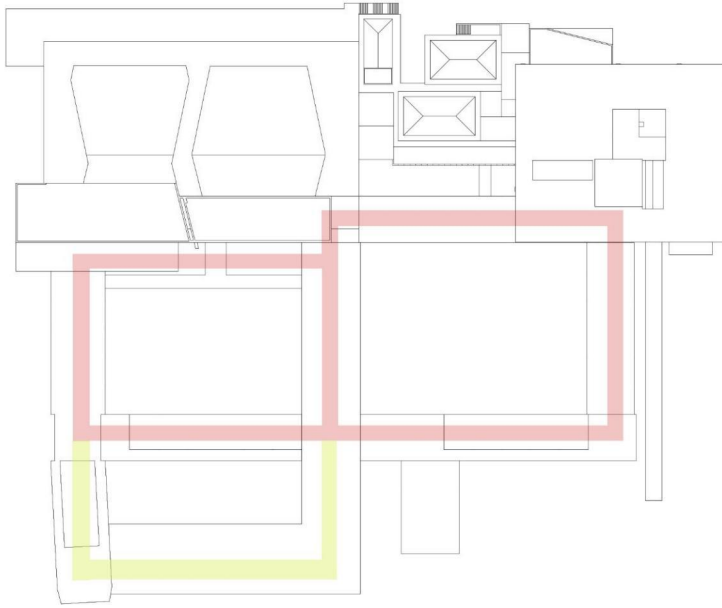
P3



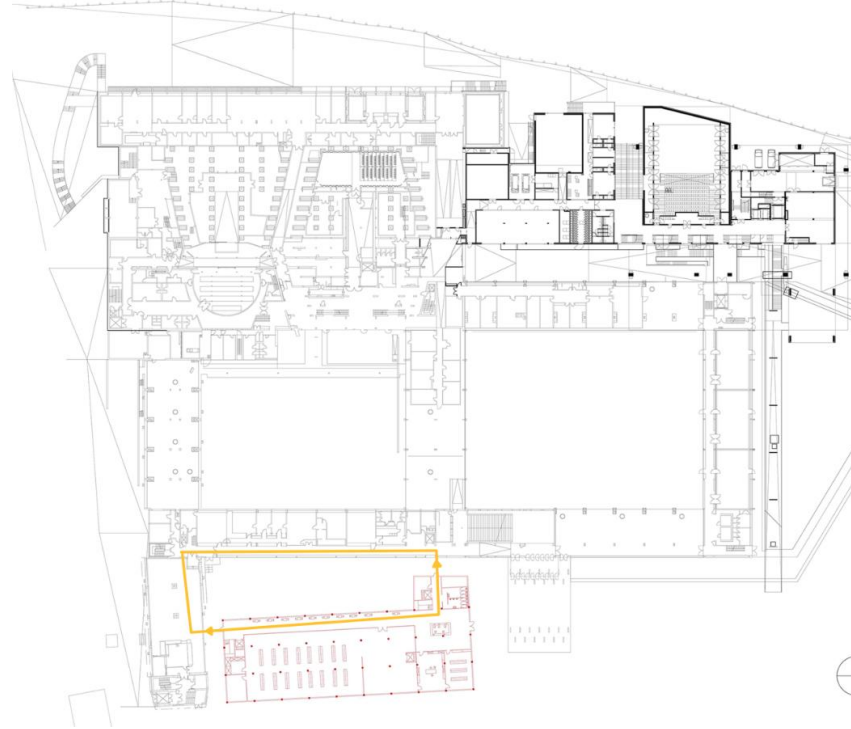
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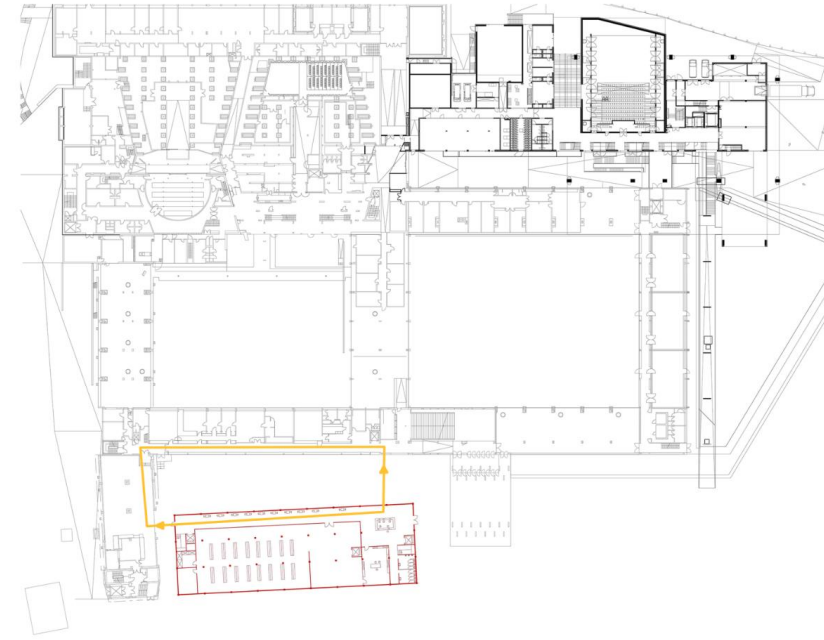
Form language



P2



P3



P4

- Research & Concept

City structure

Historical timeline of De Singel

Function analyse

Problems

Ideas

- Design

P1 inspiration

Herzog & de Meuron Kabinett

Floor plans

Sections

Facade

- BT

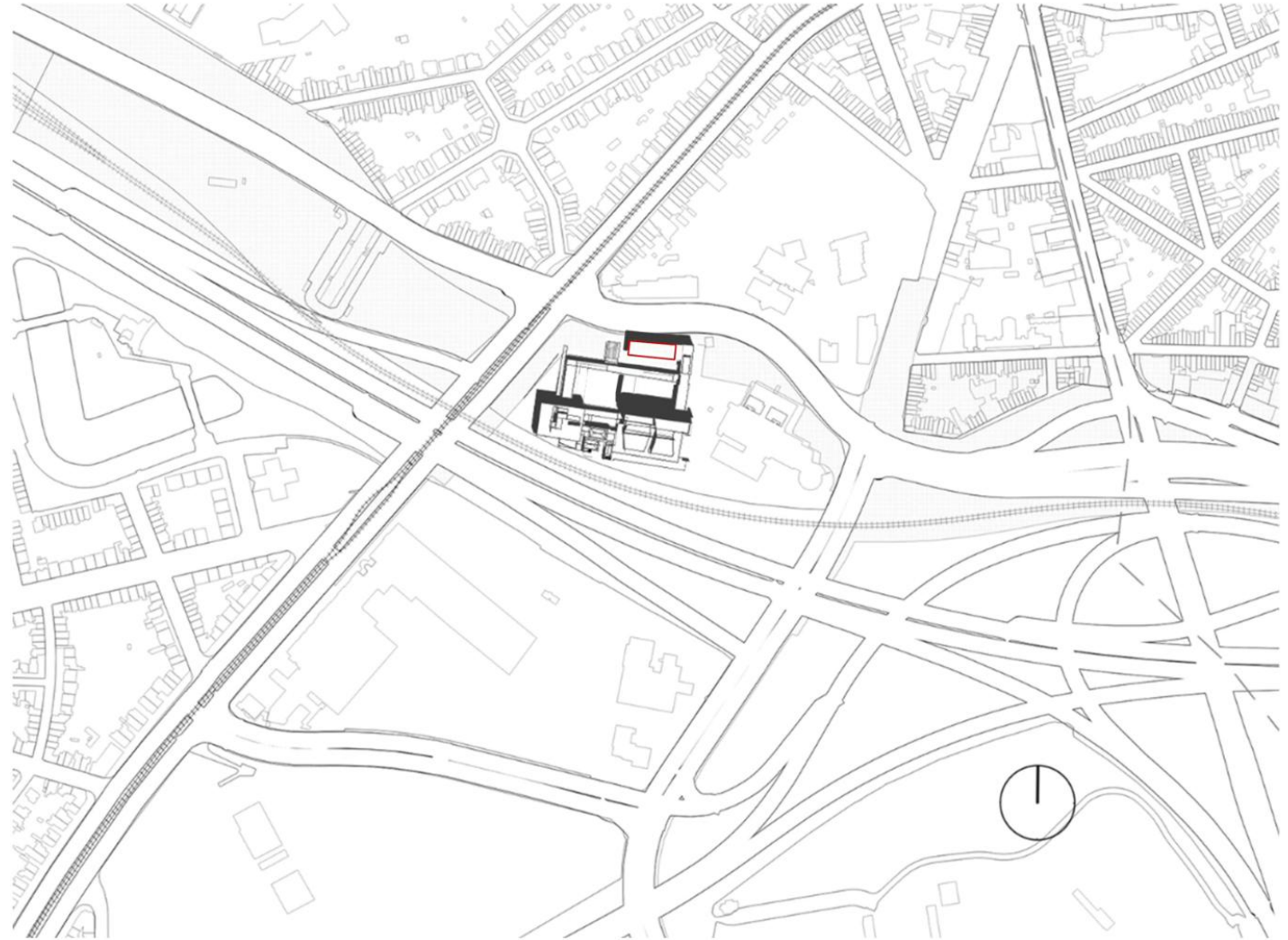
Construction

Climate design

Section and Facade

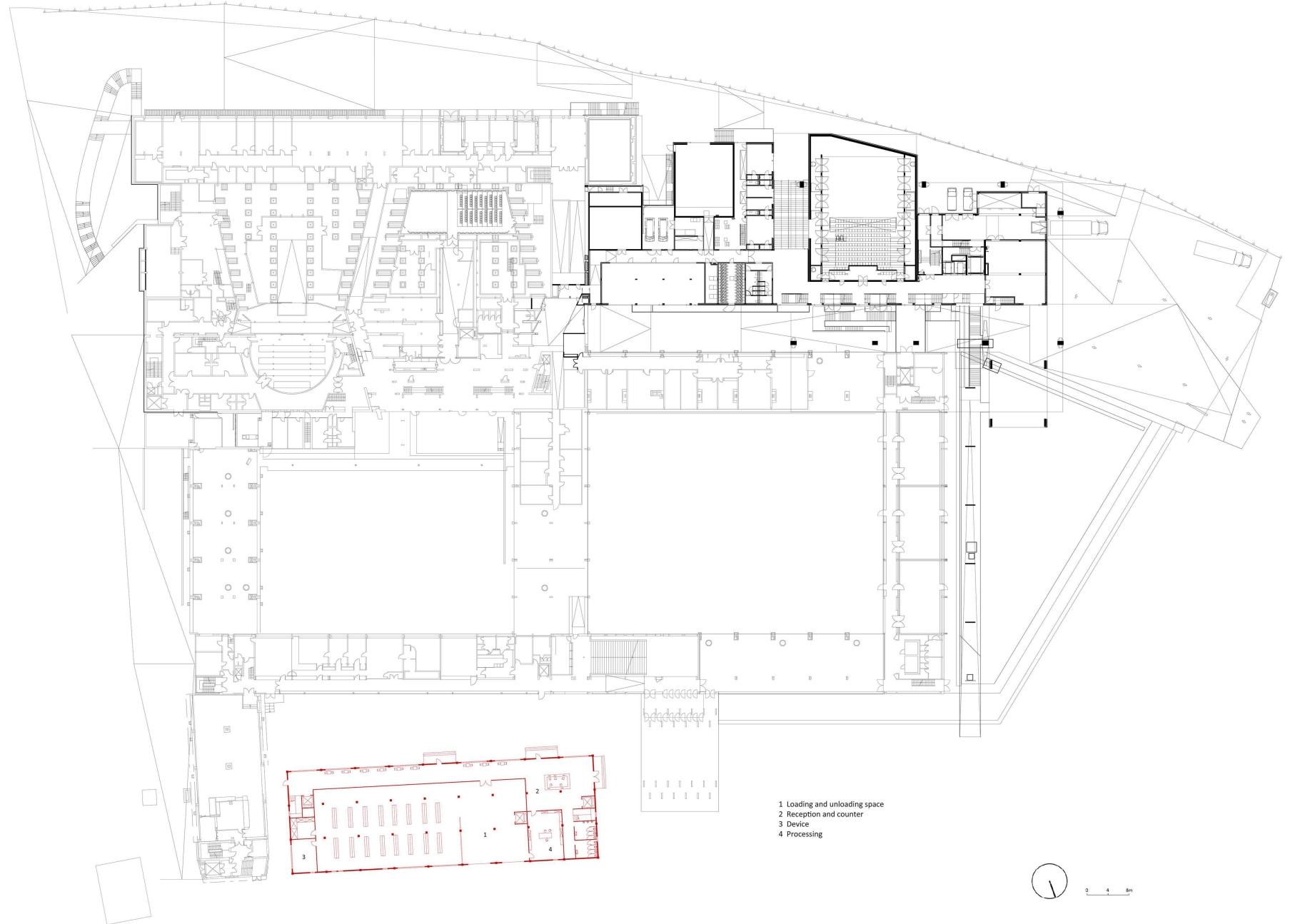
Technical drawings

Site plan



0 50 100

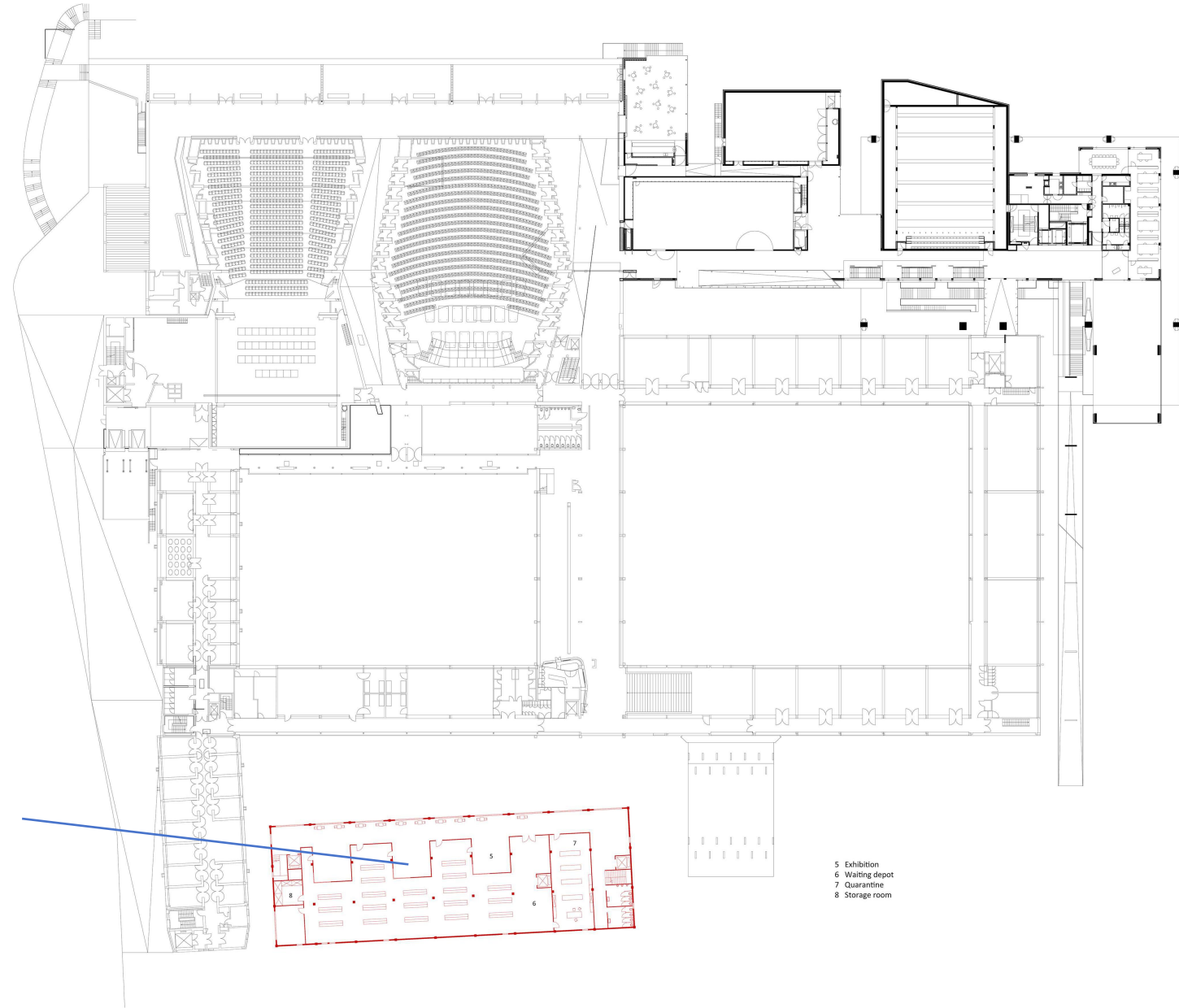
Ground floor



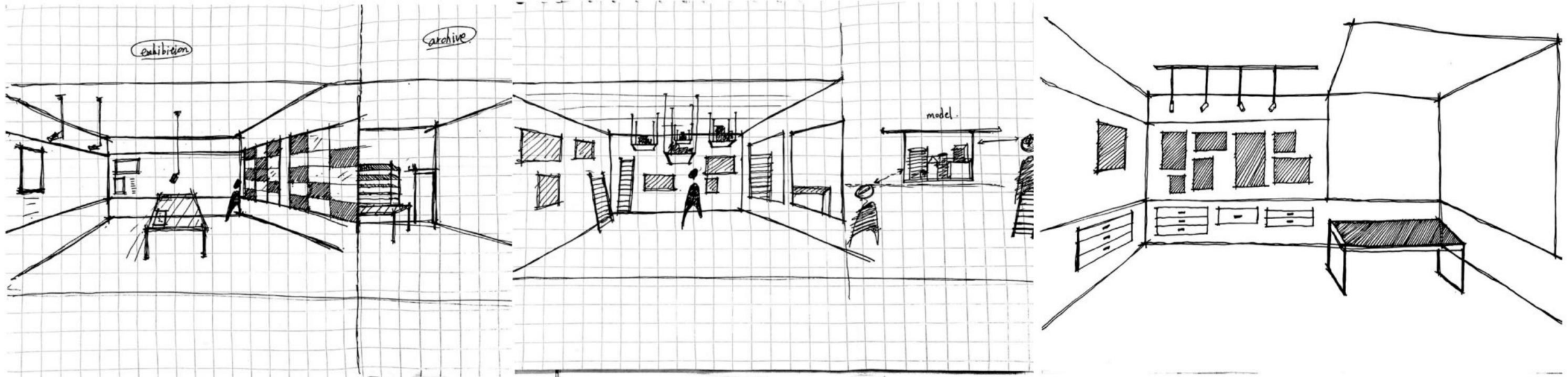
First floor



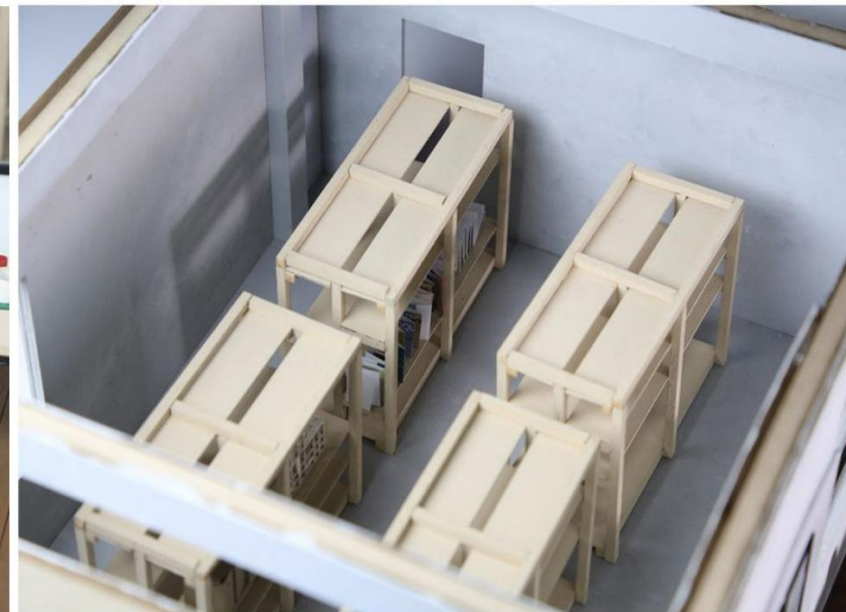
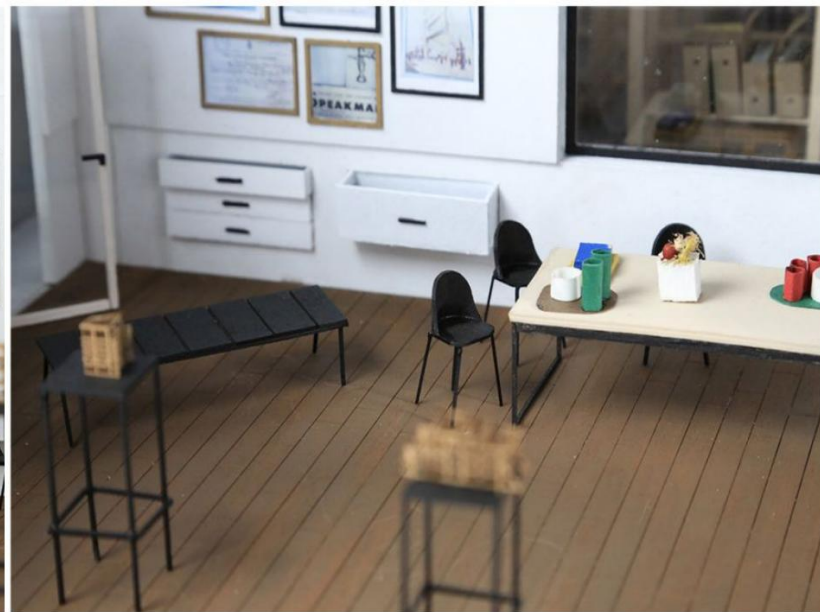
P1



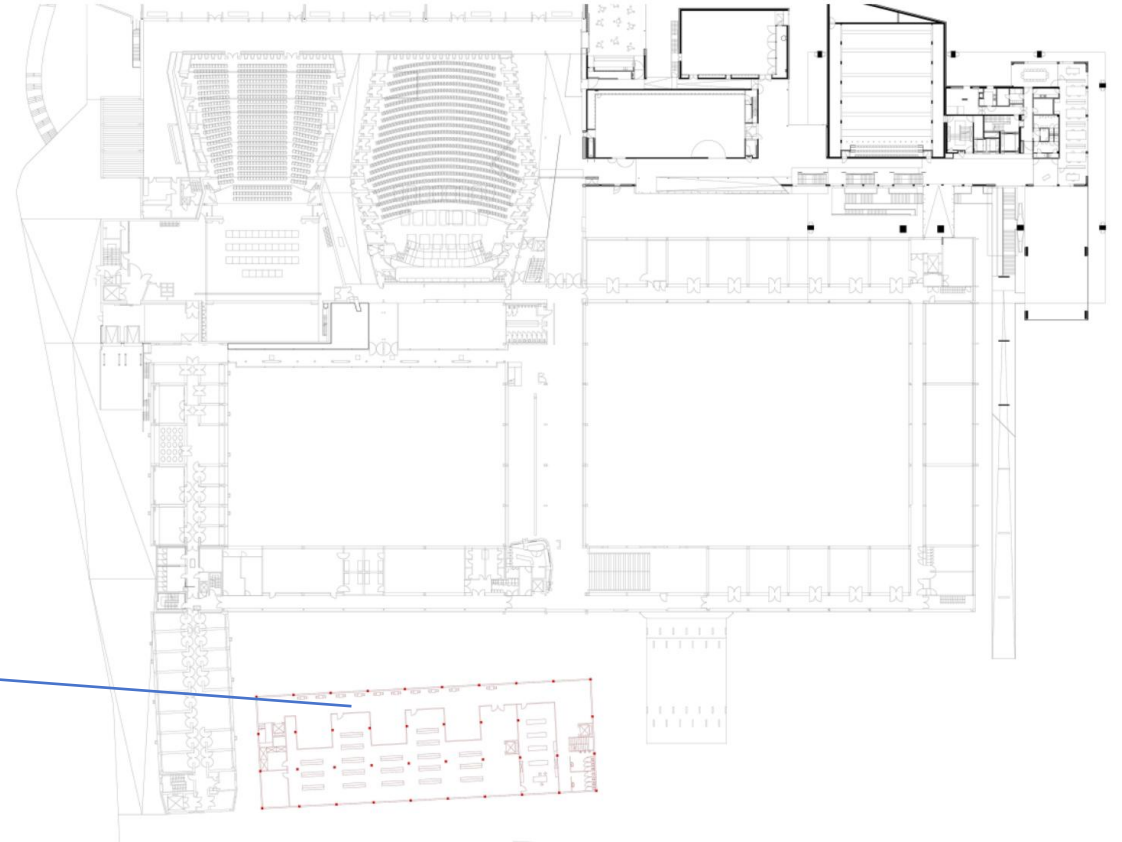
P1: Idea of Archive and exhibition



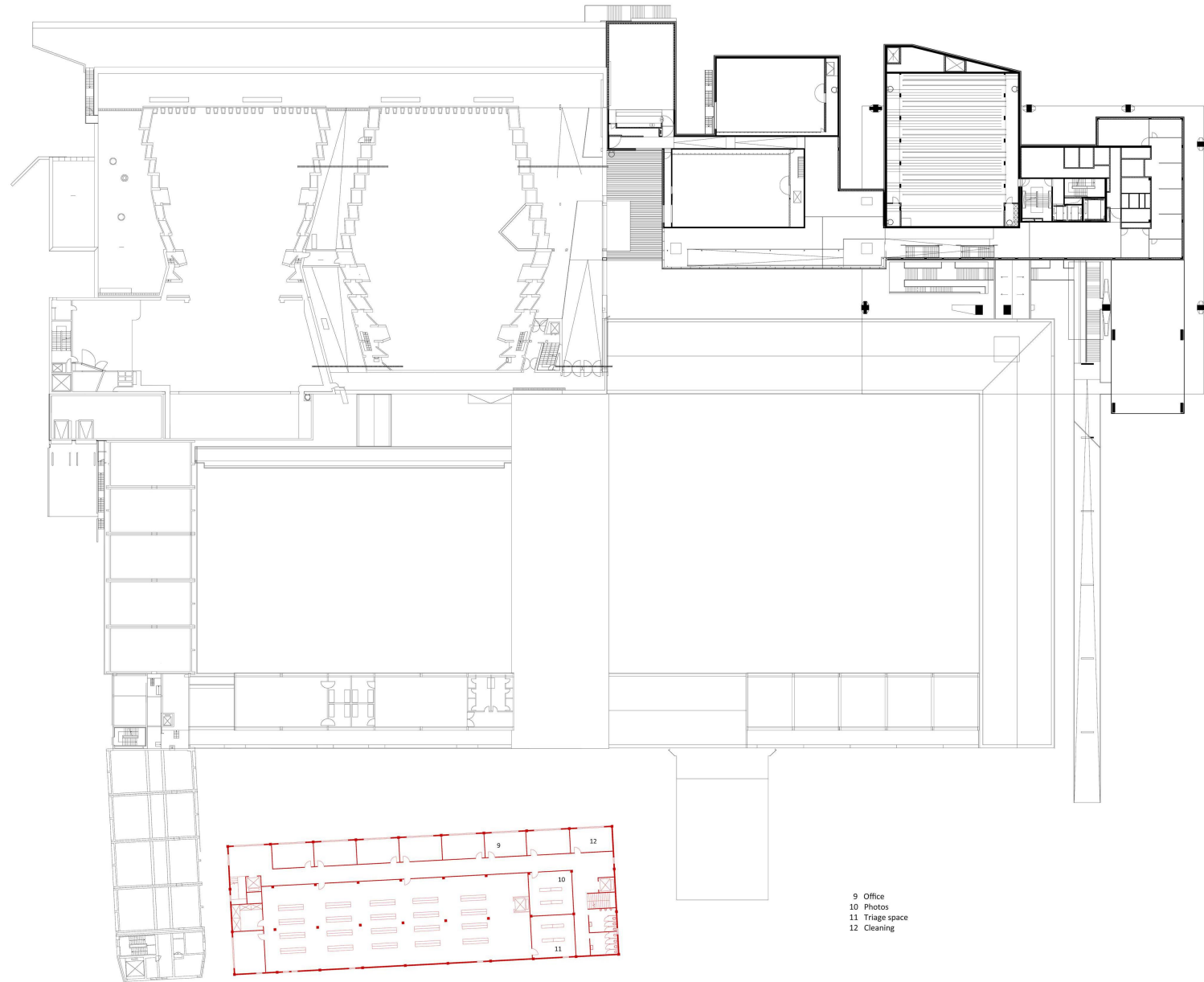




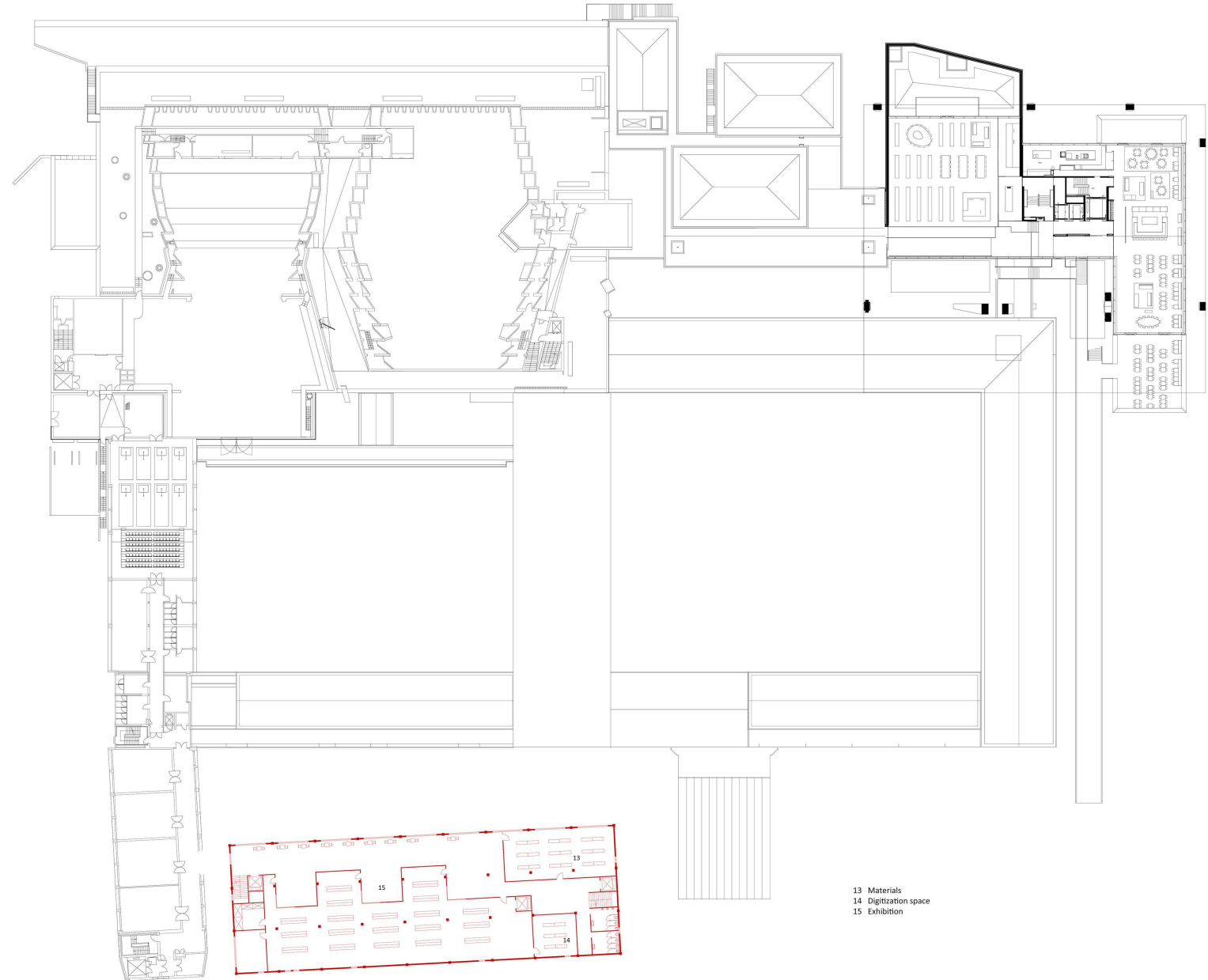
Corridor (view connection)



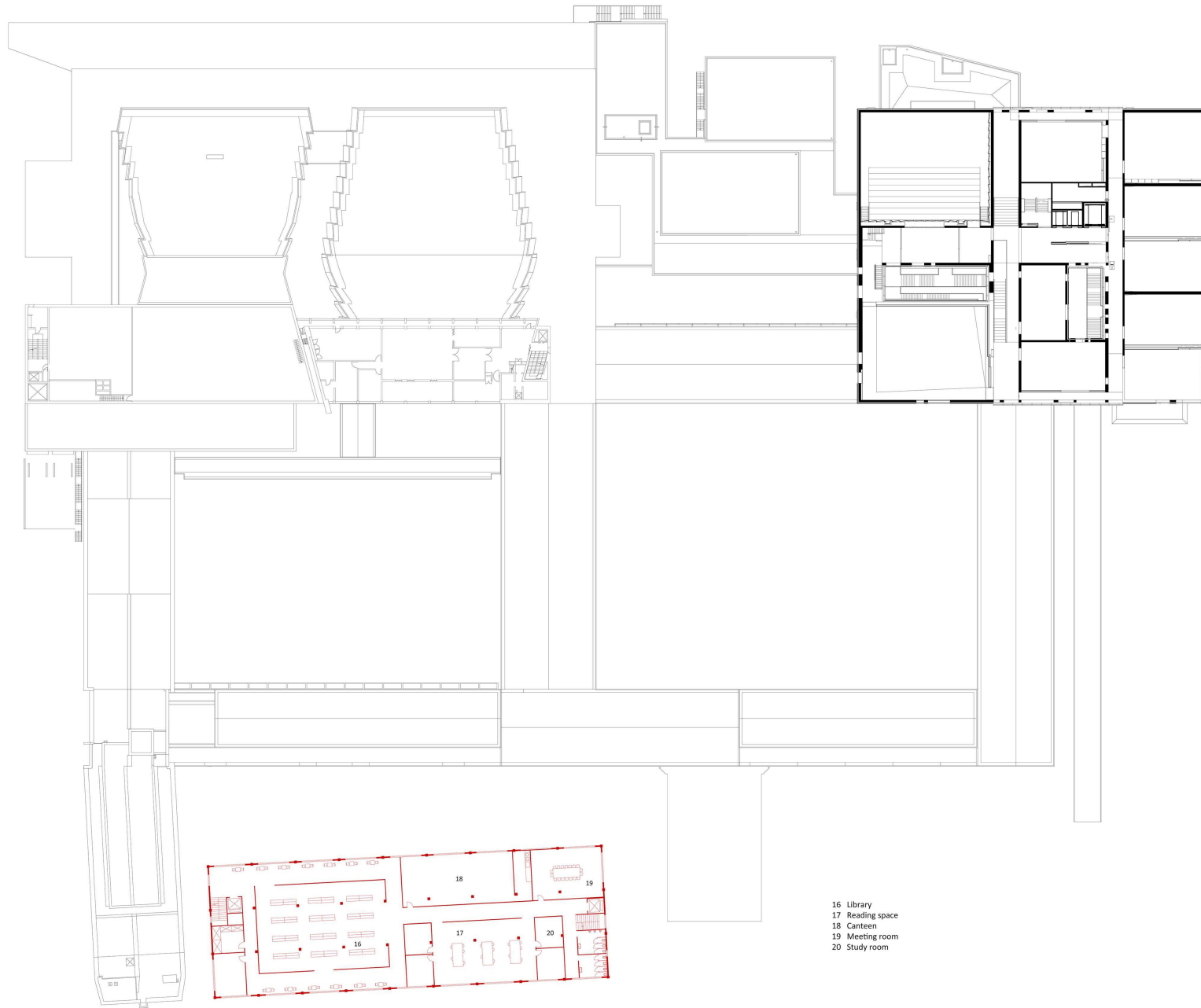
Second floor



Third floor



Fourth floor



Facade reference



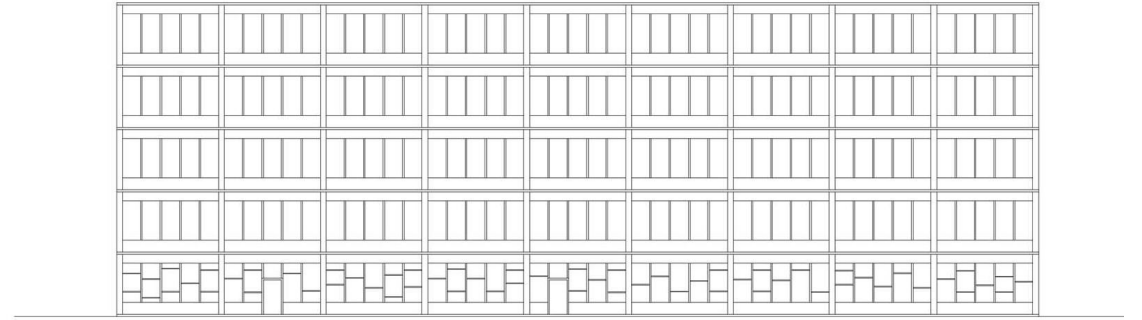
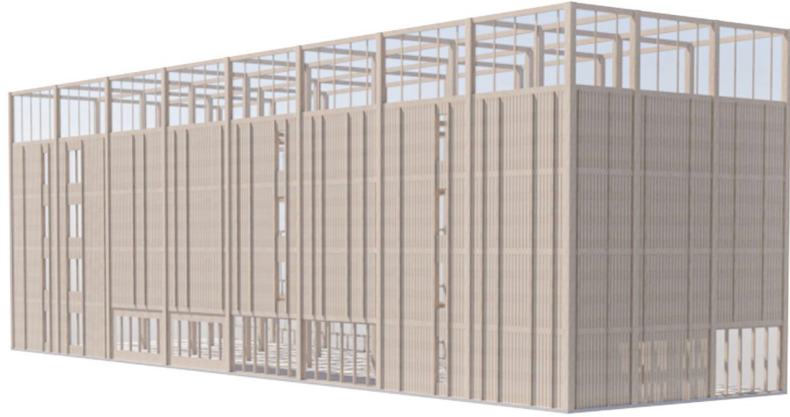
Interiors Buildings Cities PART 5



La Croze School / rue royale architectes

Mediathek Burg Giebichenstein / F29 Architekten

Facade



Section A



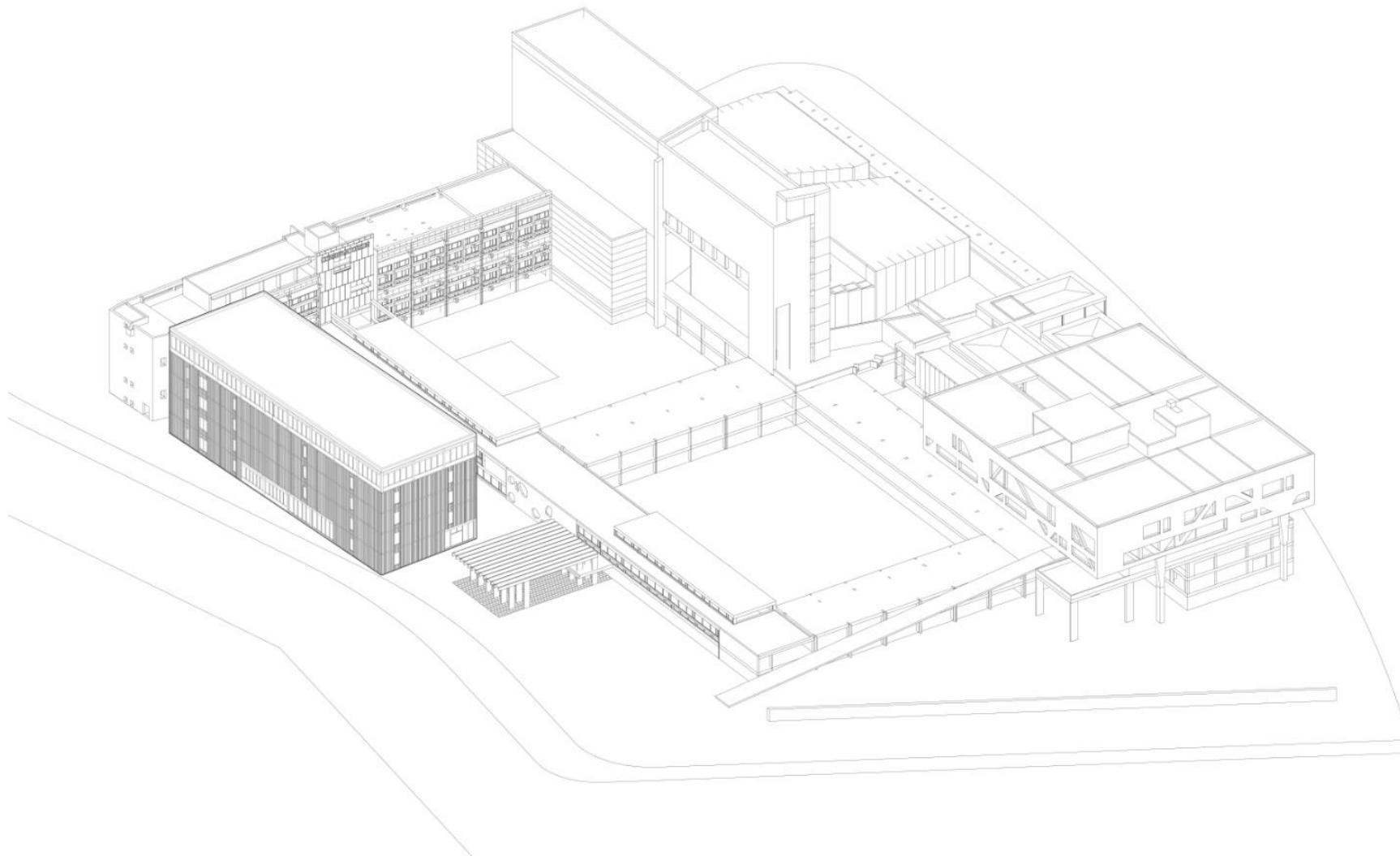
Section B



Photos(fragment)



Axo



- Research & Concept

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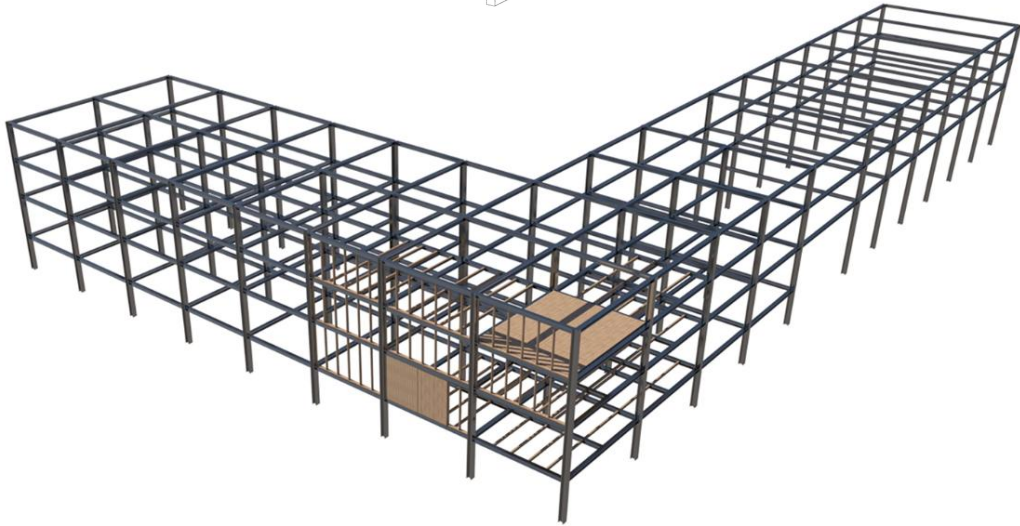
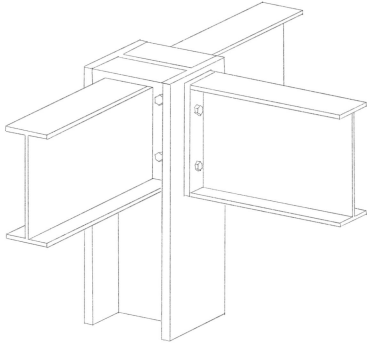
Construction

Climate design

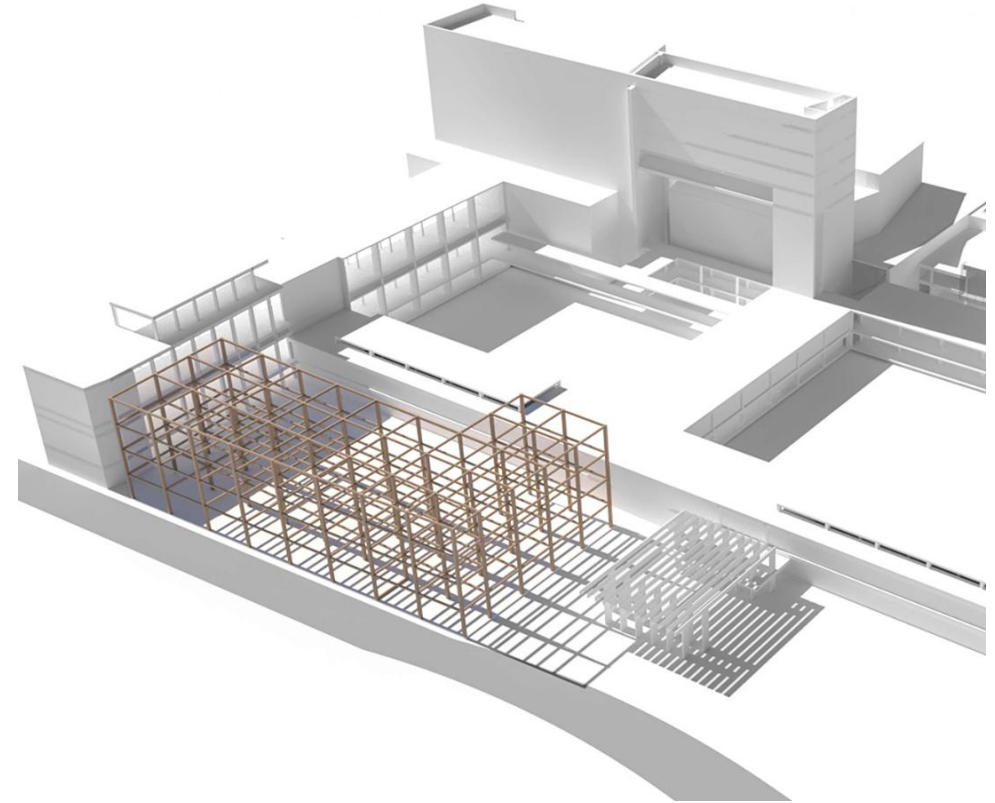
Section and Facade

Technical drawings

Structure

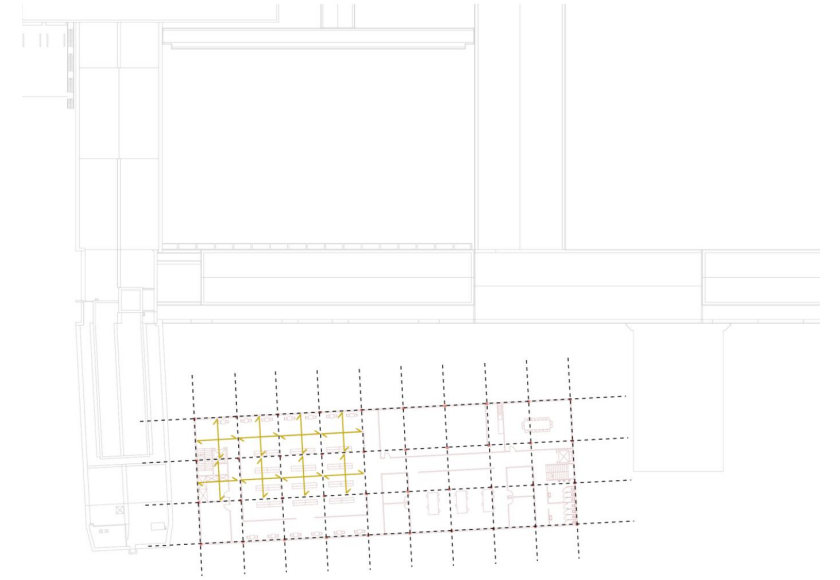
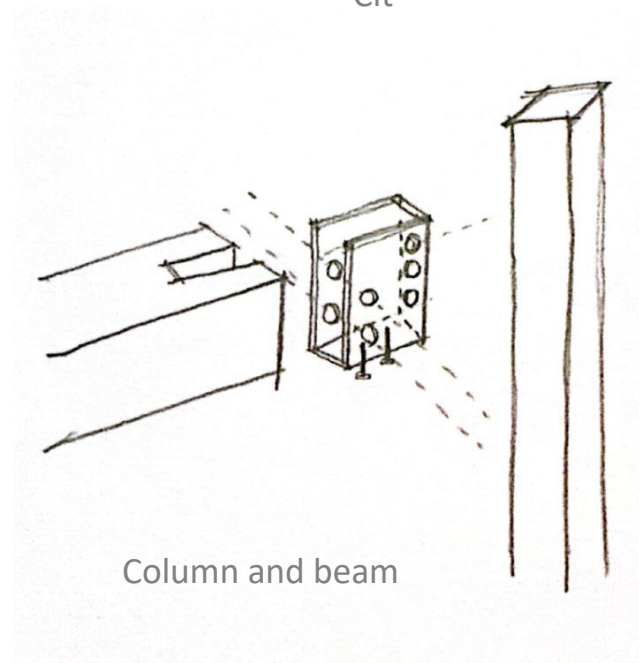
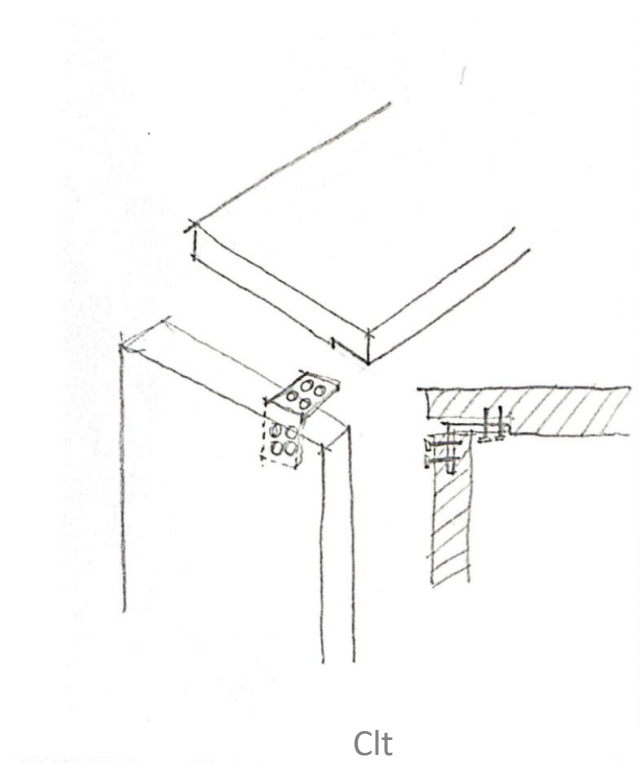
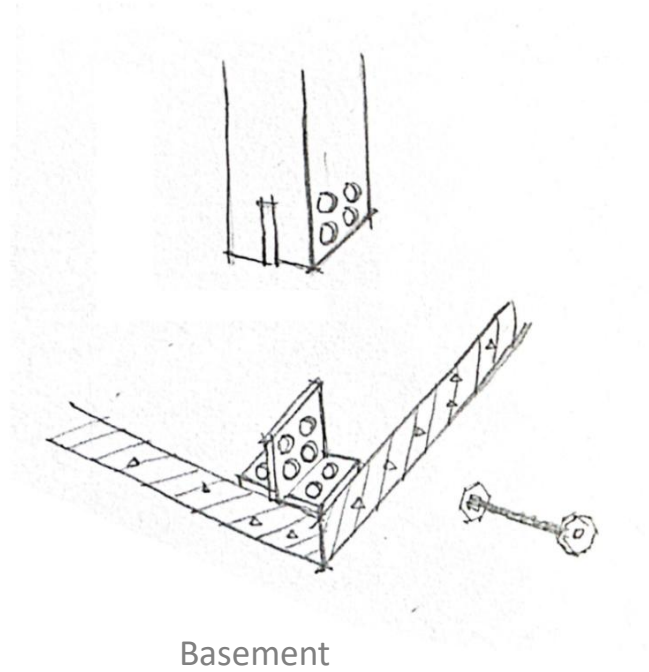


P2



P3

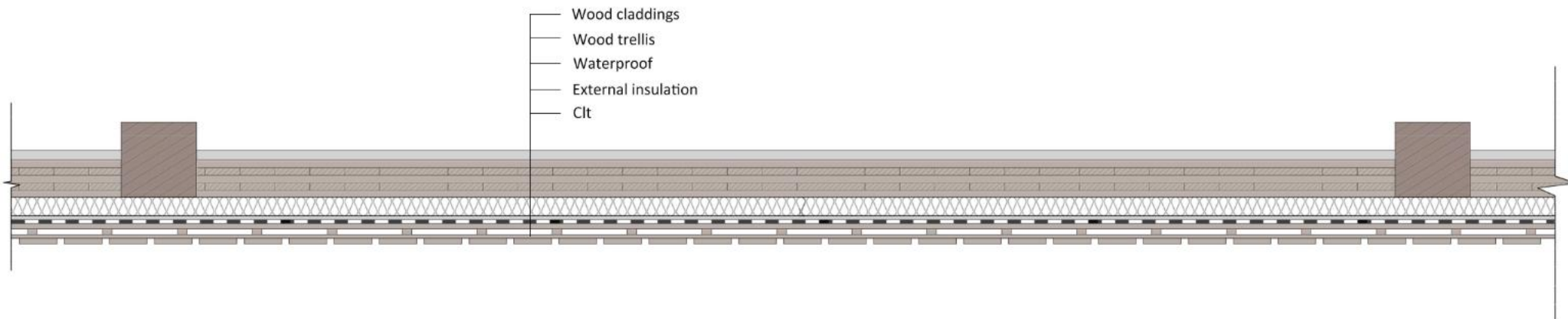
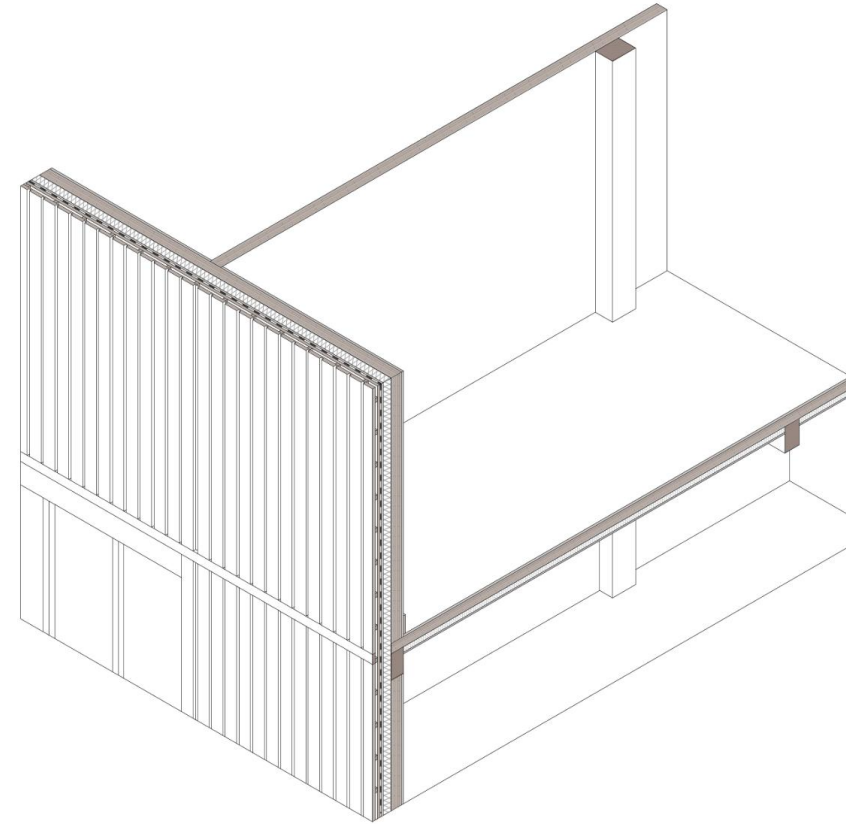
Structure diagram



Section structure



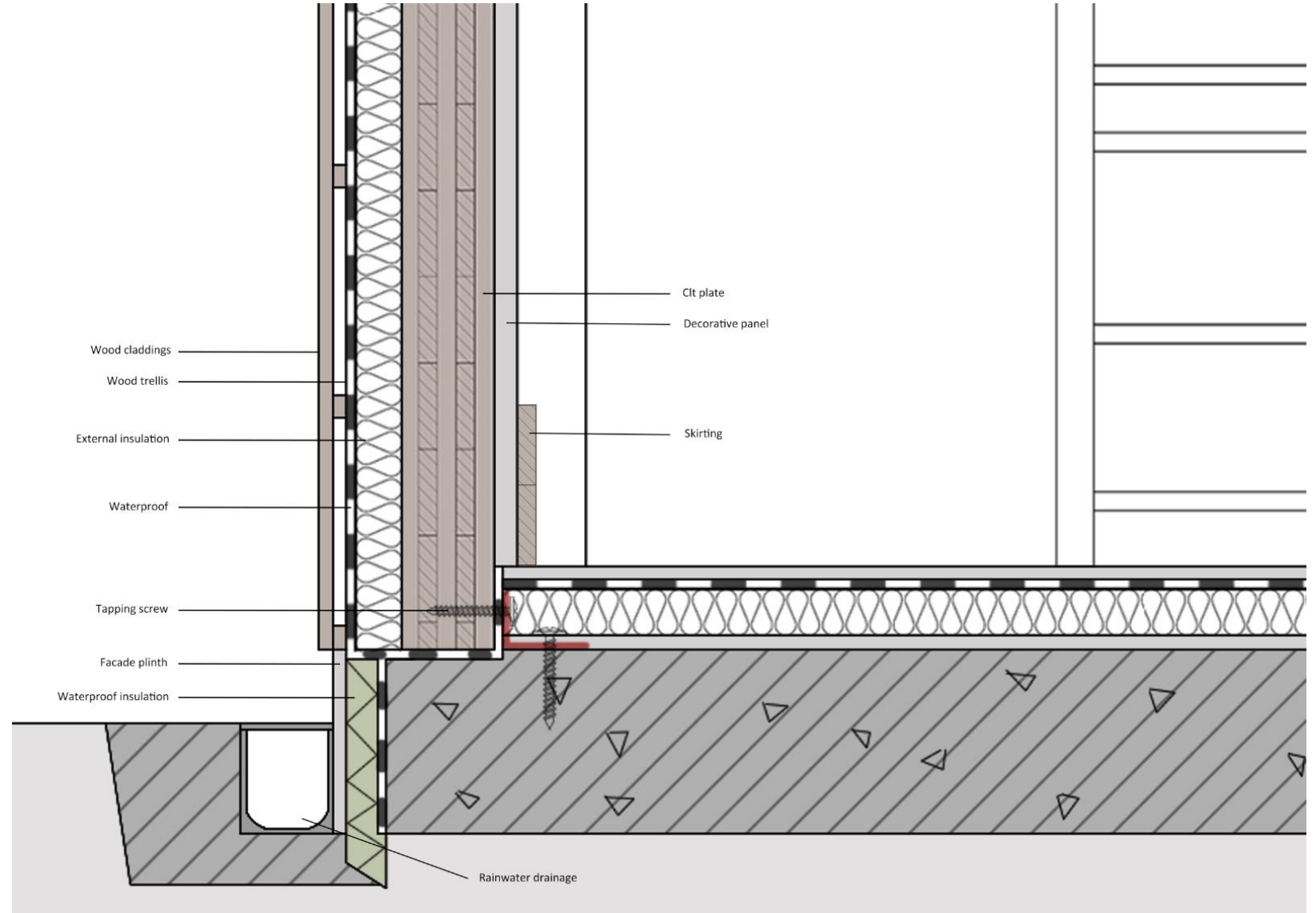
Facade construction



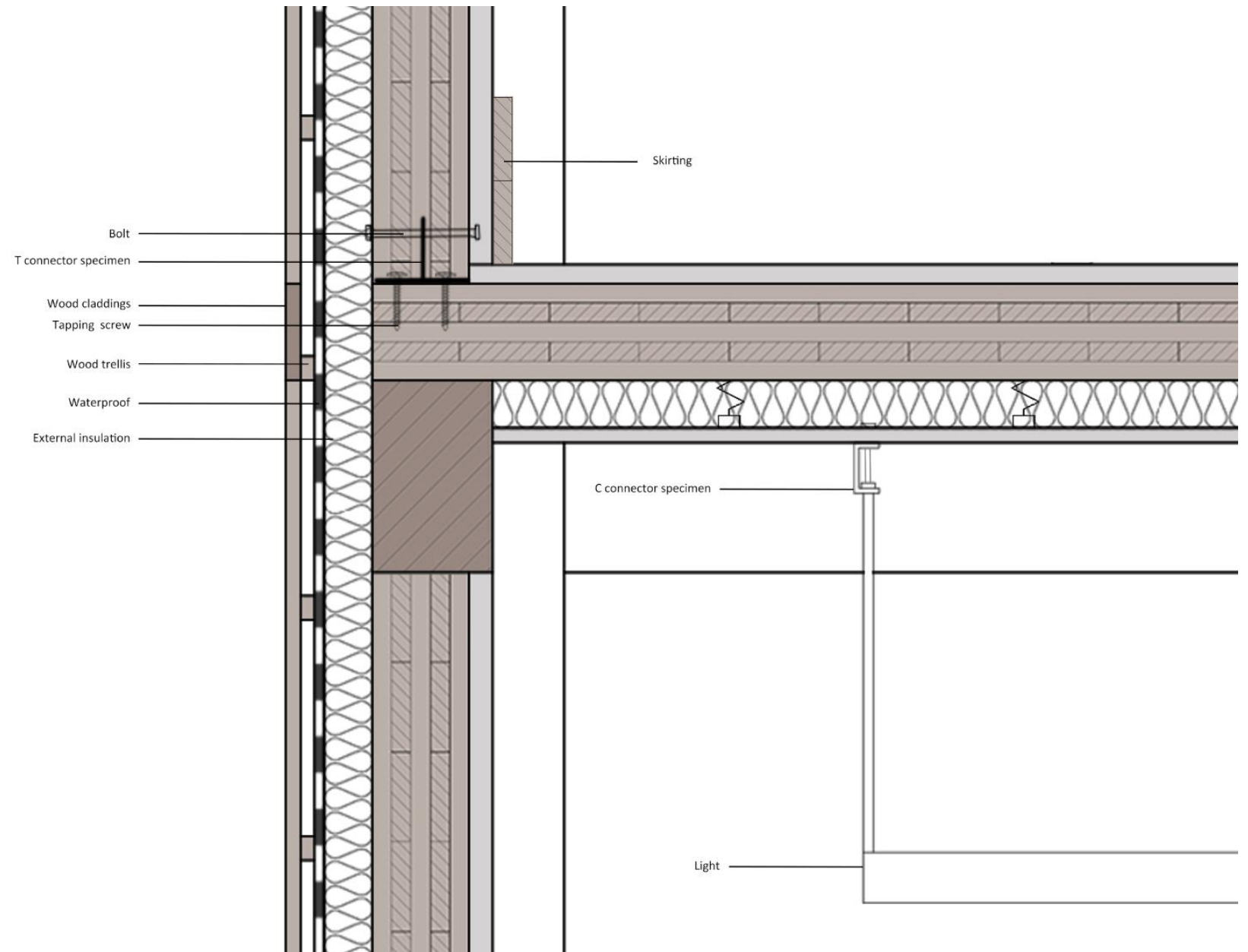
Technical drawings



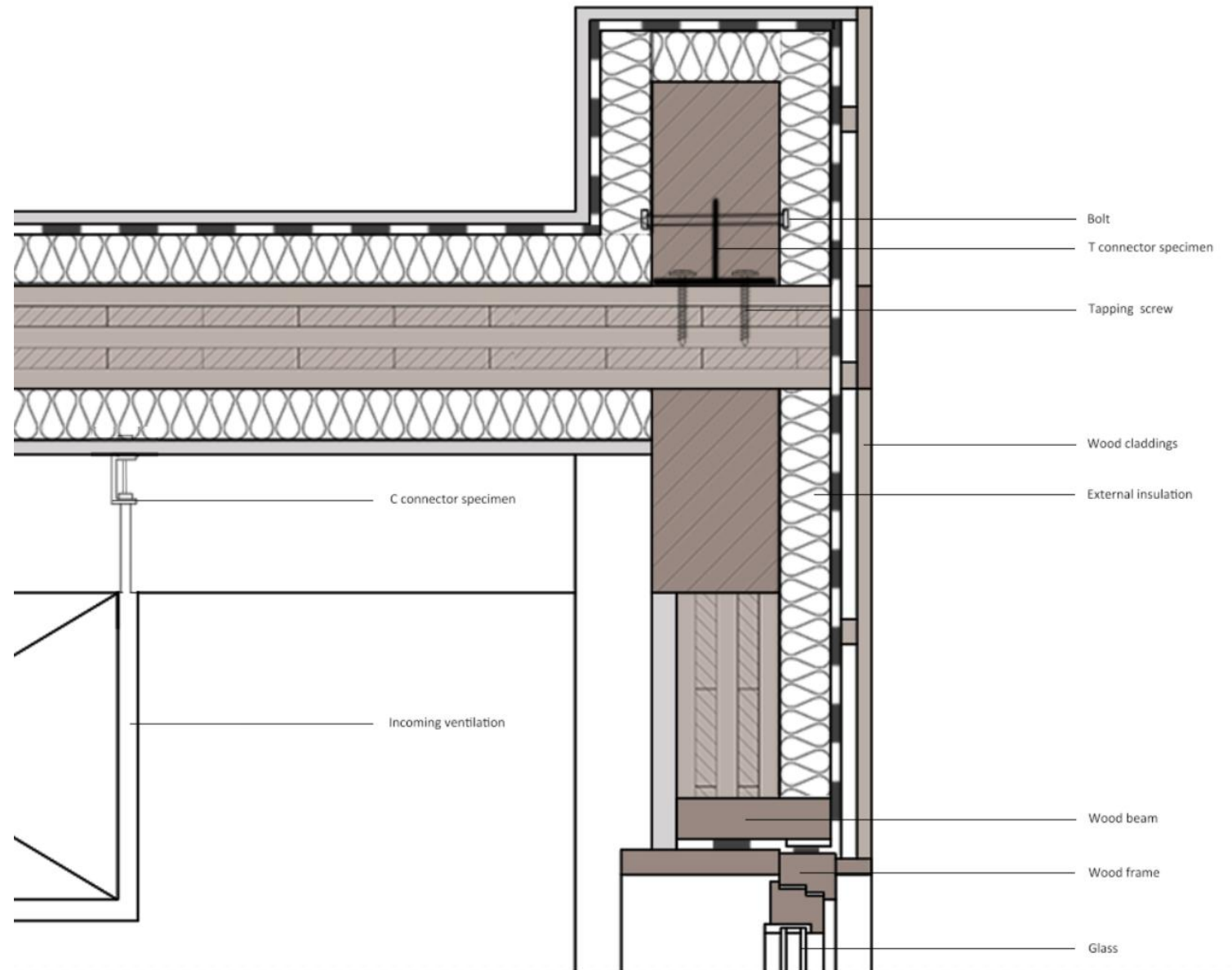
insulation: wood shavings



Technical drawings

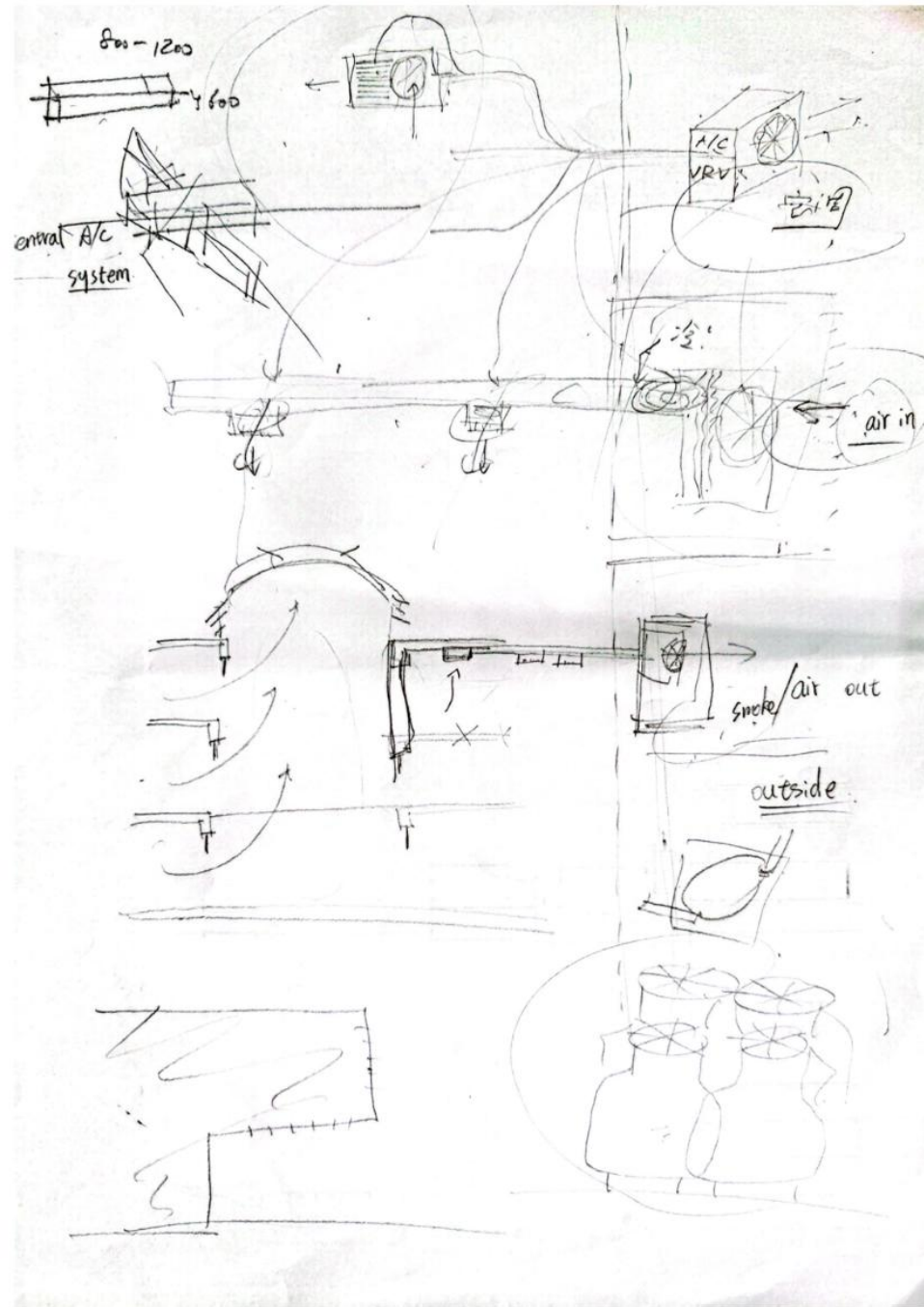


Technical drawings



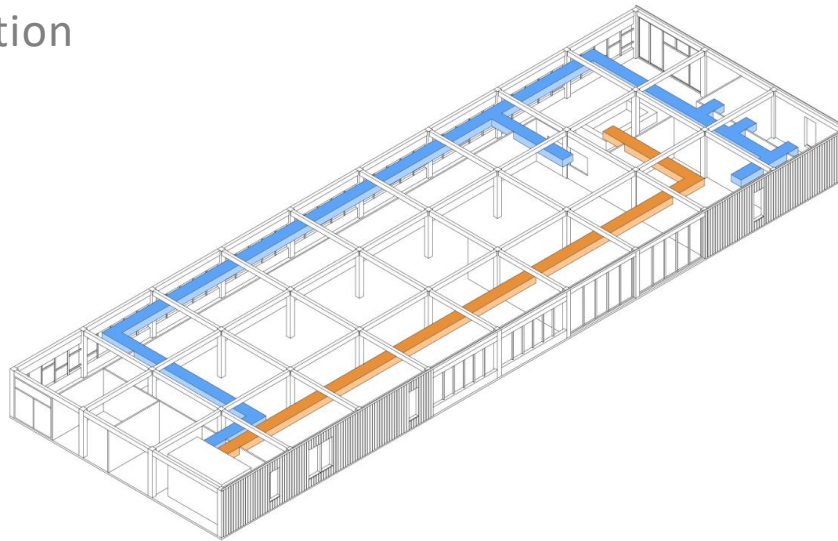
Climate design

- Exit ventilation
- Incoming ventilation

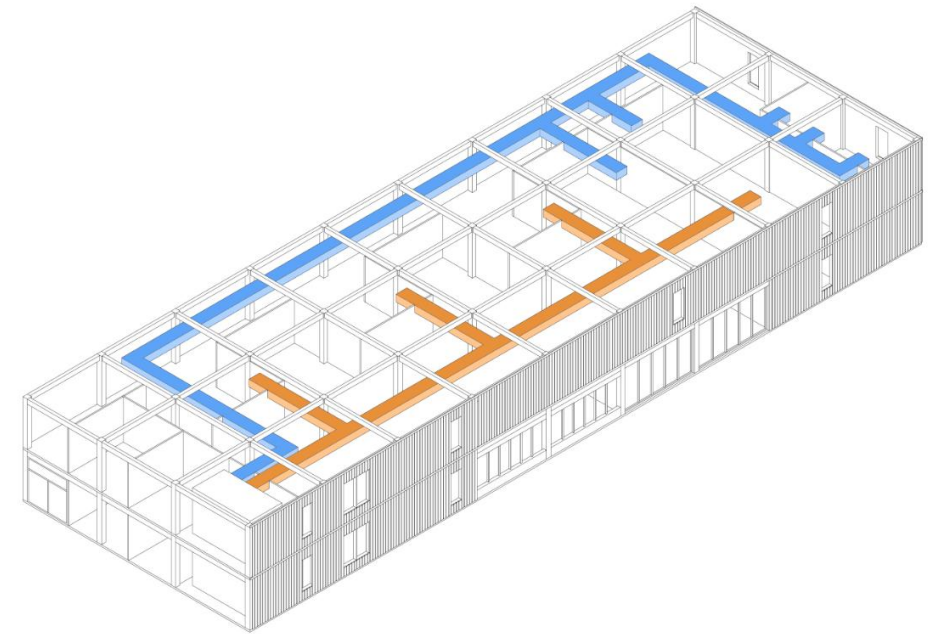


Climate design

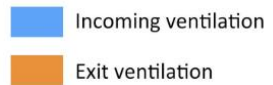
- Exit ventilation
- Incoming ventilation



Ground floor

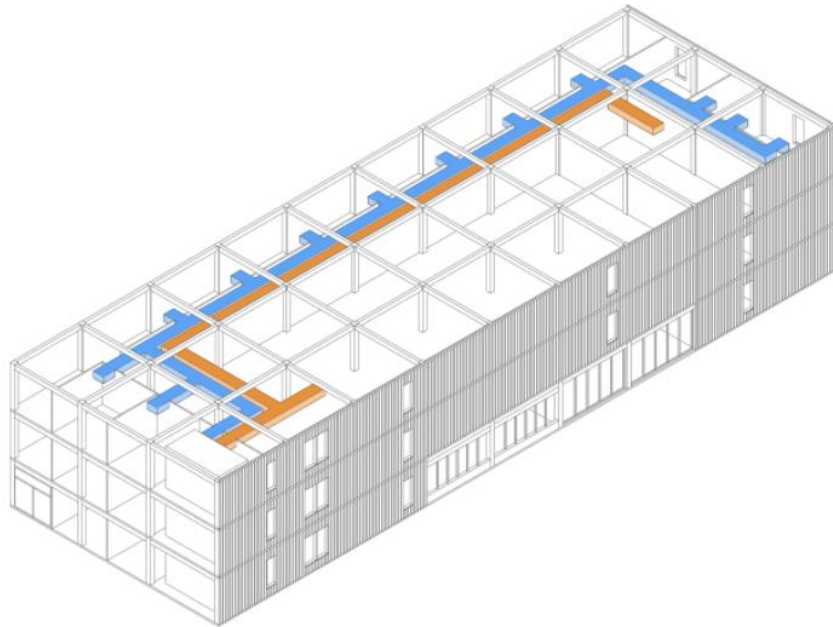
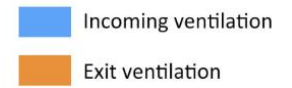


First floor

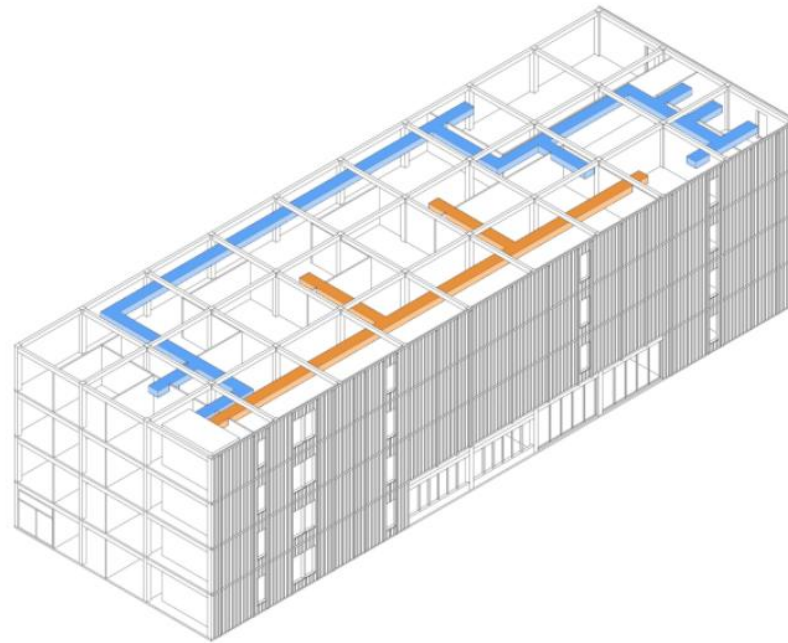


Climate design

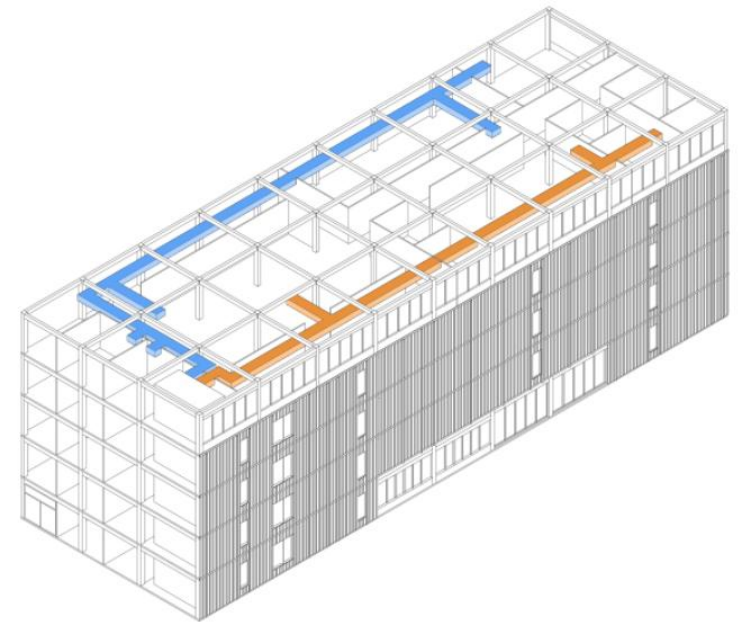
- Exit ventilation
- Incoming ventilation



Second floor



Third floor



Fourth floor

Climate design

- Exit ventilation
- Incoming ventilation

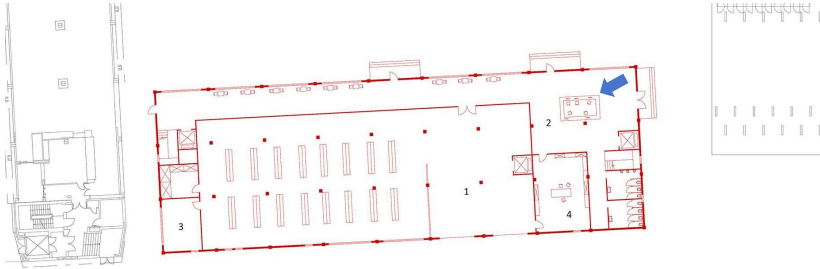


Climate design

- Exit ventilation
- Incoming ventilation



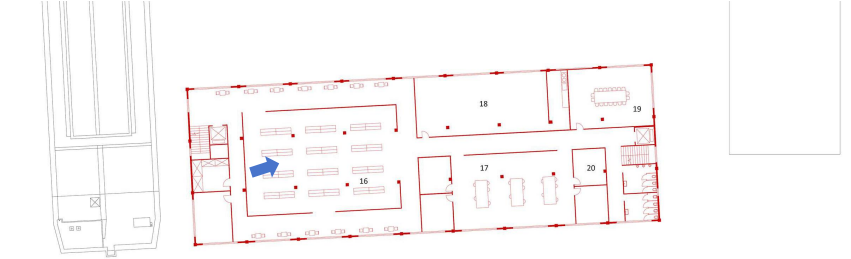
Interior space



entrance



corridor



library

Thanks !

谢谢！