

**BUD TO BLOSSOM:  
FLOWERING WINTERSWIJK**

**BOOGIE WOOGIE  
LIBRARY & COWORKING  
BUILDING TECHNOLOGY**

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*Heritage & Architecture  
Revitalising Winterswijk*

4922484  
**Seongchul Yu**

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*00. MASTER PLAN*

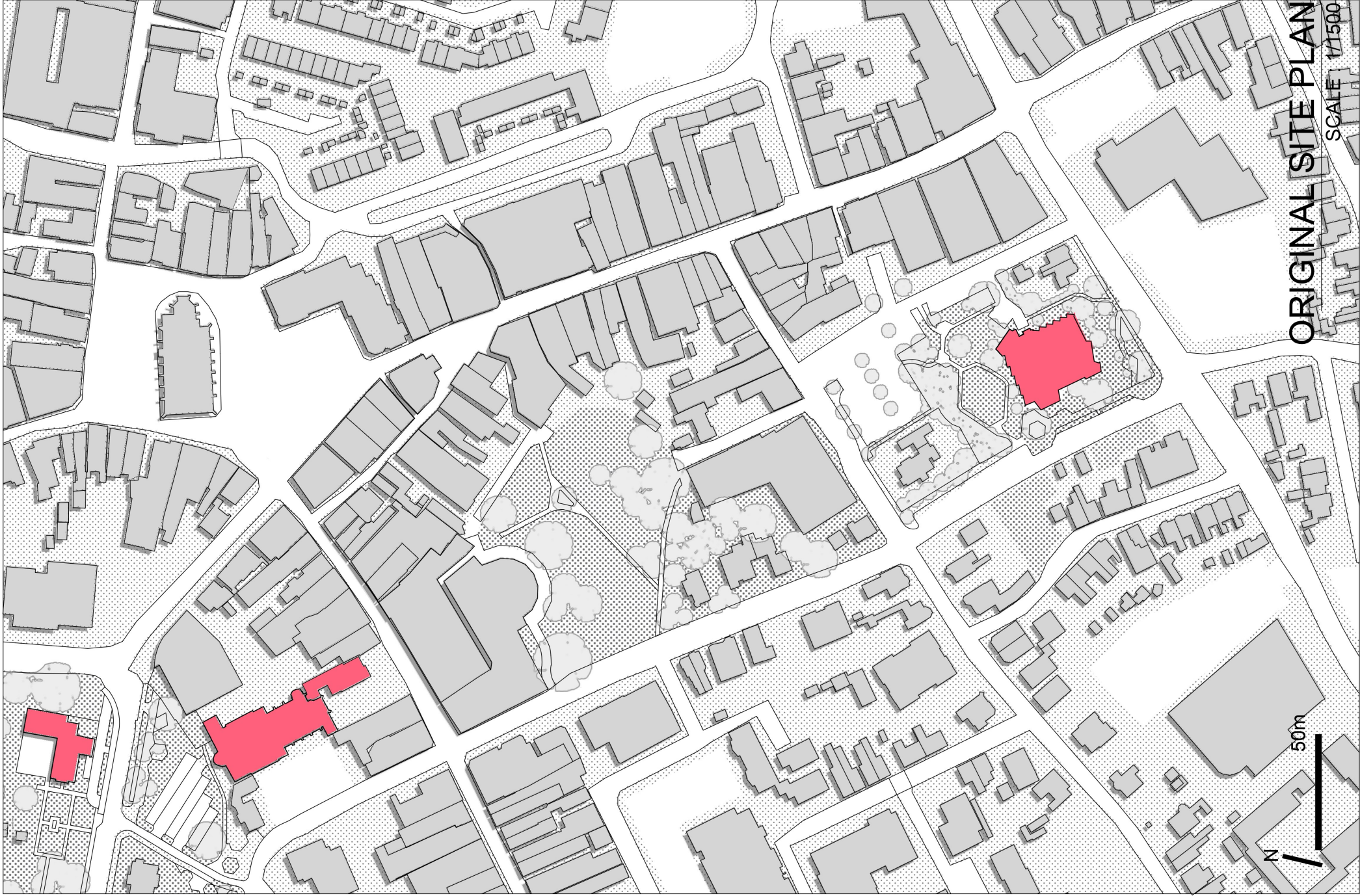
*01. FLOOR PLAN*

*02. SECTION*

*03. CONSTRUCTION*

*04. SECTION PERSPECTIVE*

*05. CLIMATE COMFORT*



ORIGINAL SITE PLAN

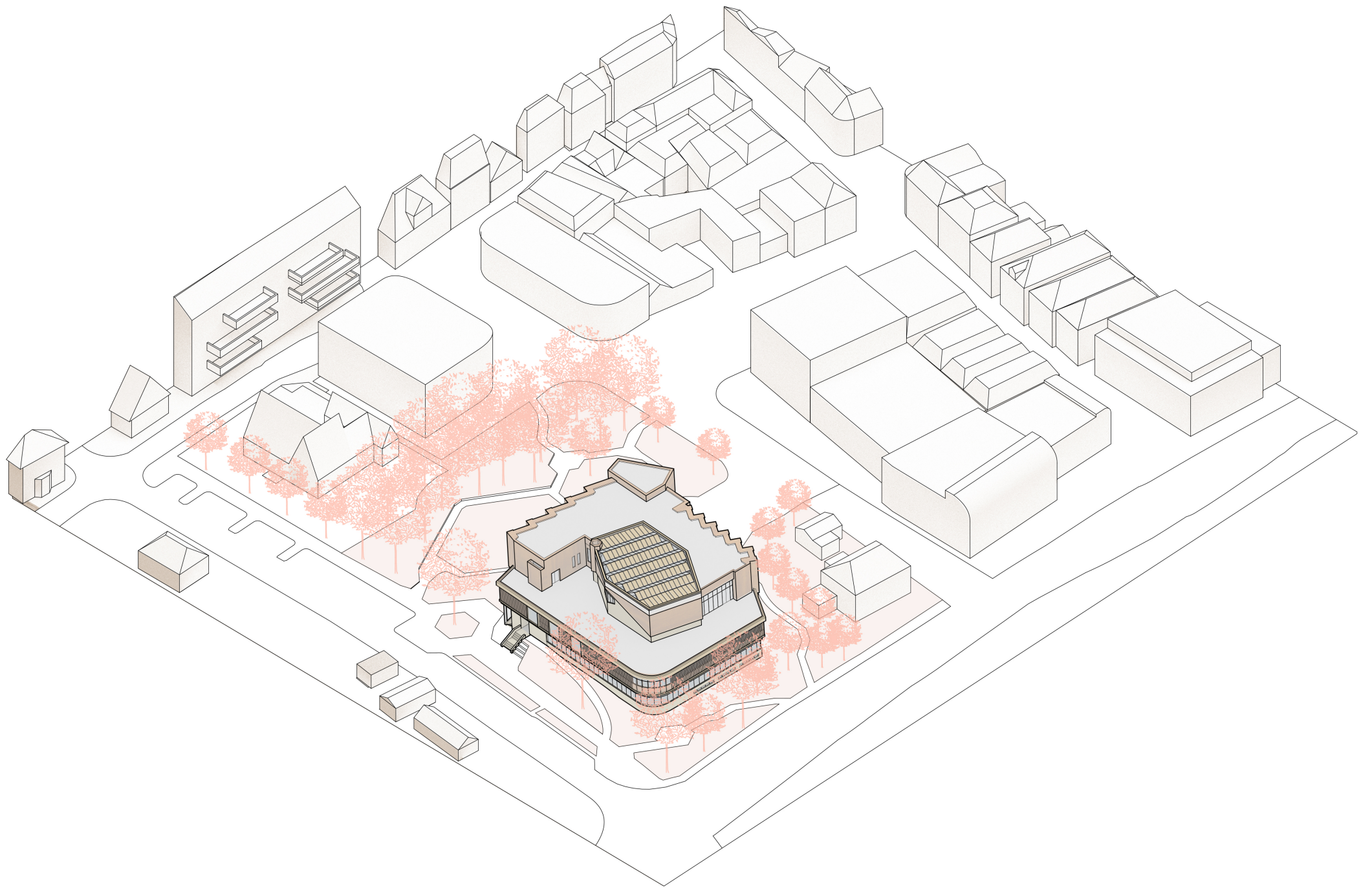
SCALE 1/1500

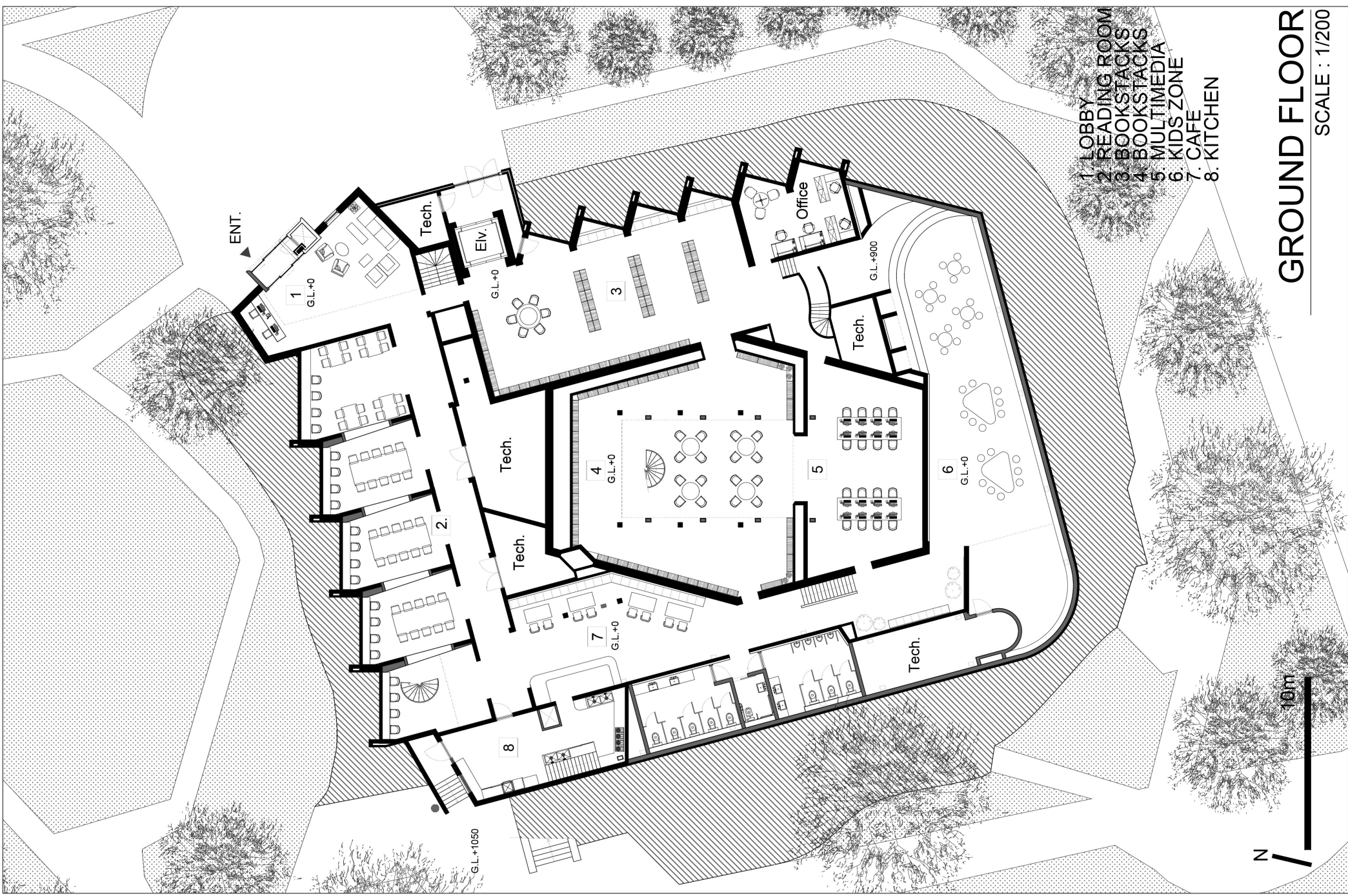


*MASTERPLAN*

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*CULTURAL COMPLEX*

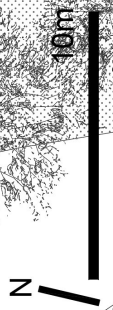


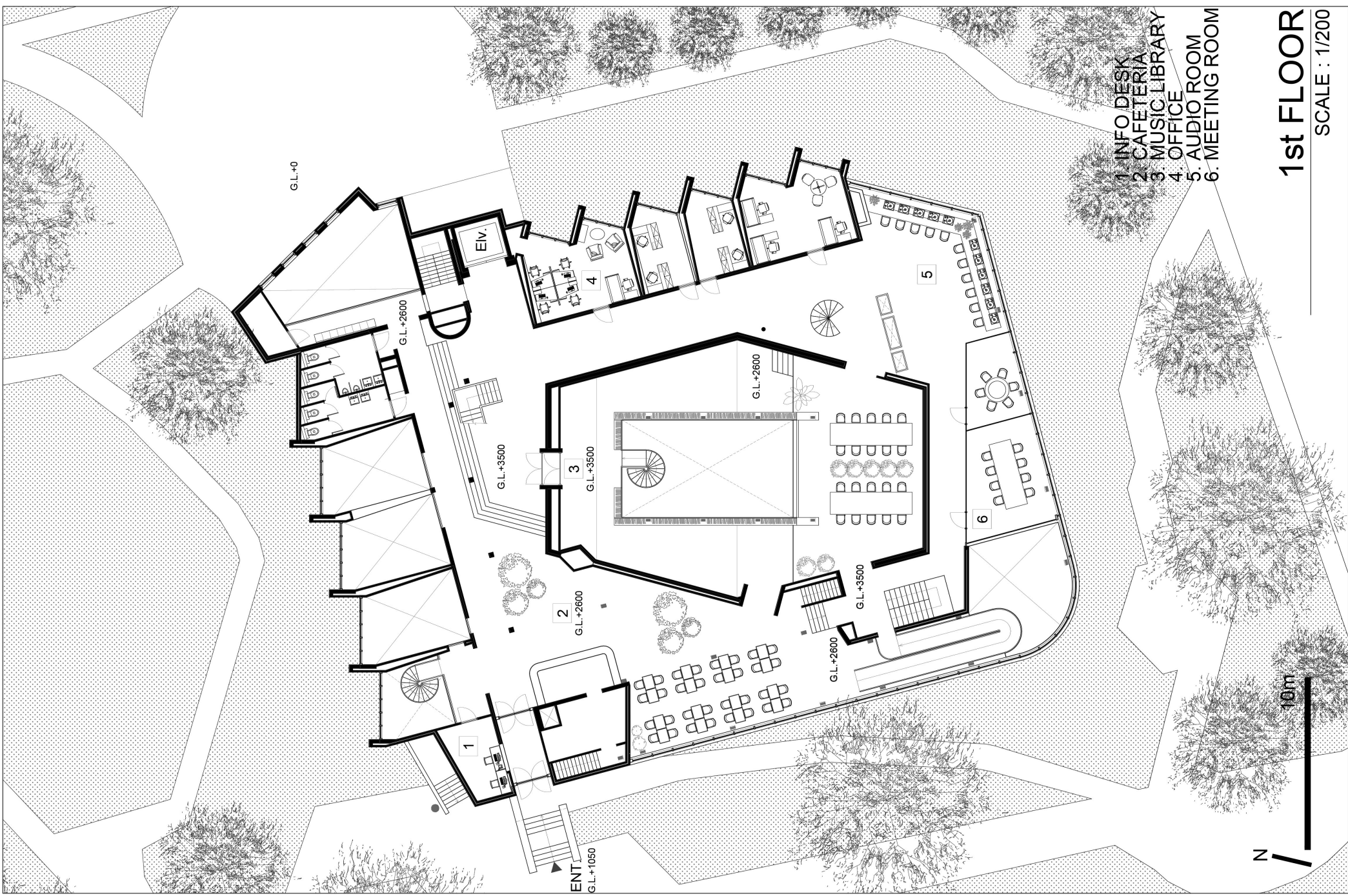


- 1. LOBBY
- 2. READING ROOM
- 3. BOOKSTACKS
- 4. BOOKSTACKS
- 5. MULTIMEDIA
- 6. KIDS ZONE
- 7. CAFE
- 8. KITCHEN

# GROUND FLOOR

SCALE : 1/200

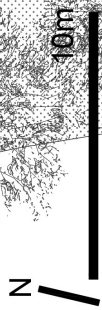


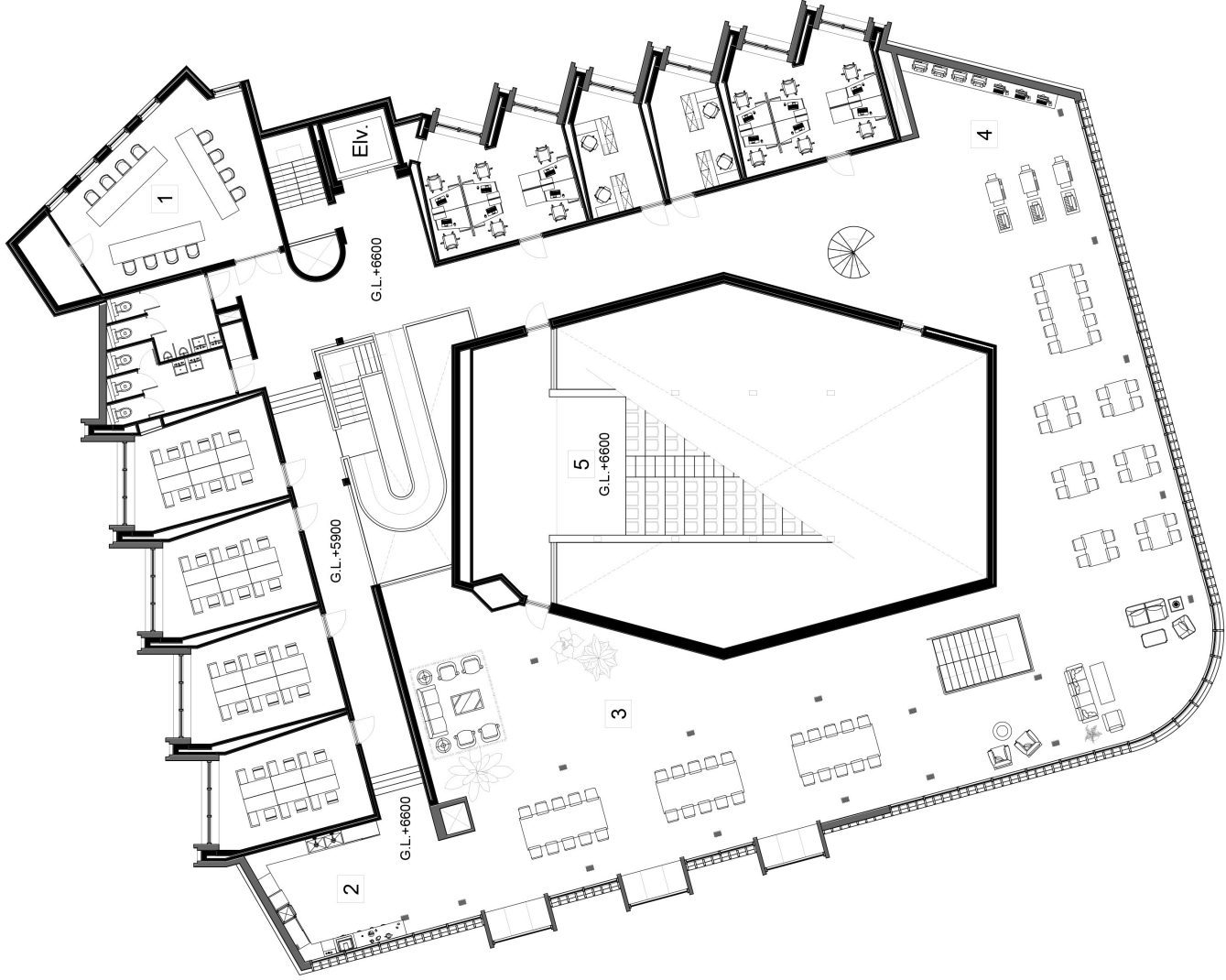


- 1. INFO DESK
- 2. CAFETERIA
- 3. MUSIC LIBRARY
- 4. OFFICE
- 5. AUDIO ROOM
- 6. MEETING ROOM

# 1st FLOOR

SCALE : 1/200





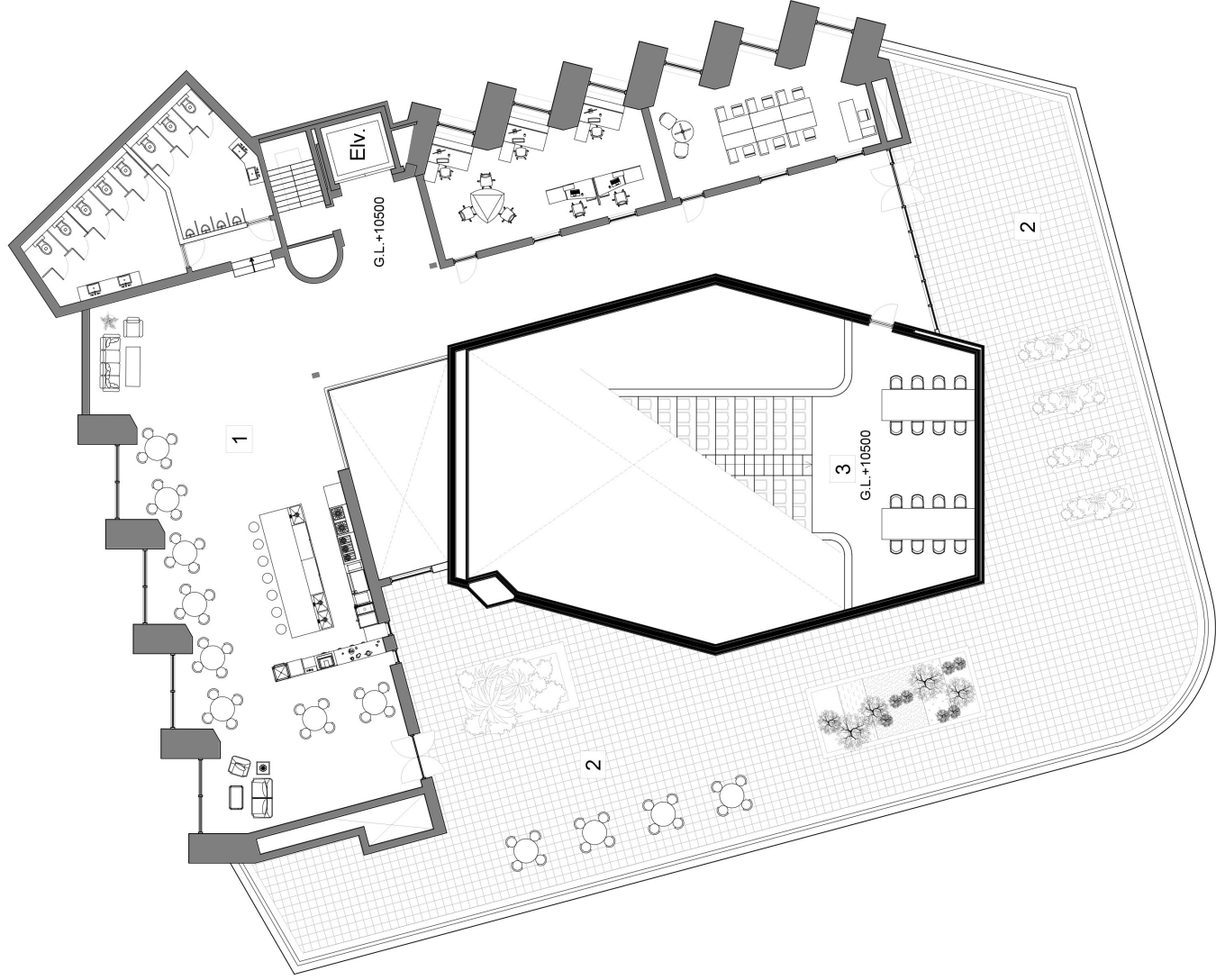
1. MEETING ROOM
2. LOUNGE
3. COWORKING
4. EQUIPMENTS
5. AUDITORIUM



## 2nd FLOOR

SCALE : 1/200





- 1. OPEN KITCHEN
- 2. TERRACE
- 3. AUDITORIUM

# 3rd FLOOR

SCALE : 1/200





50m

# OLD SITE PLAN

SCALE : 1/1000

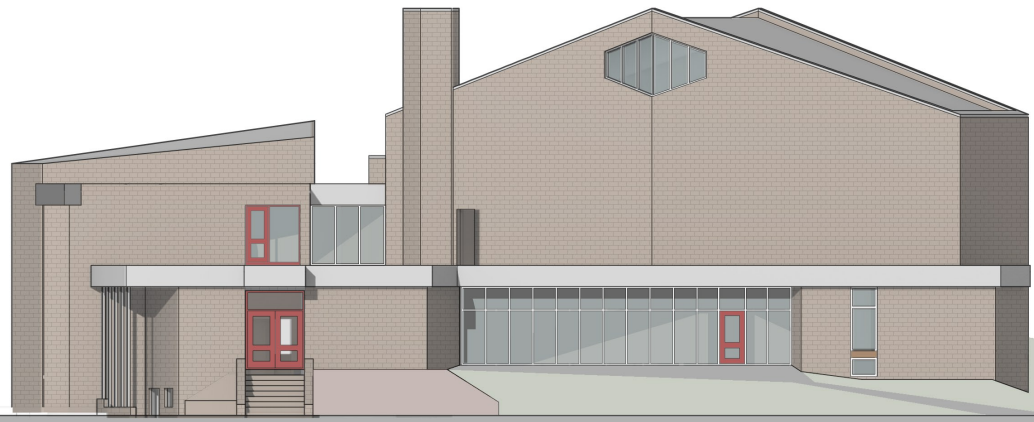


N

50m

# NEW SITE PLAN

SCALE : 1/1000

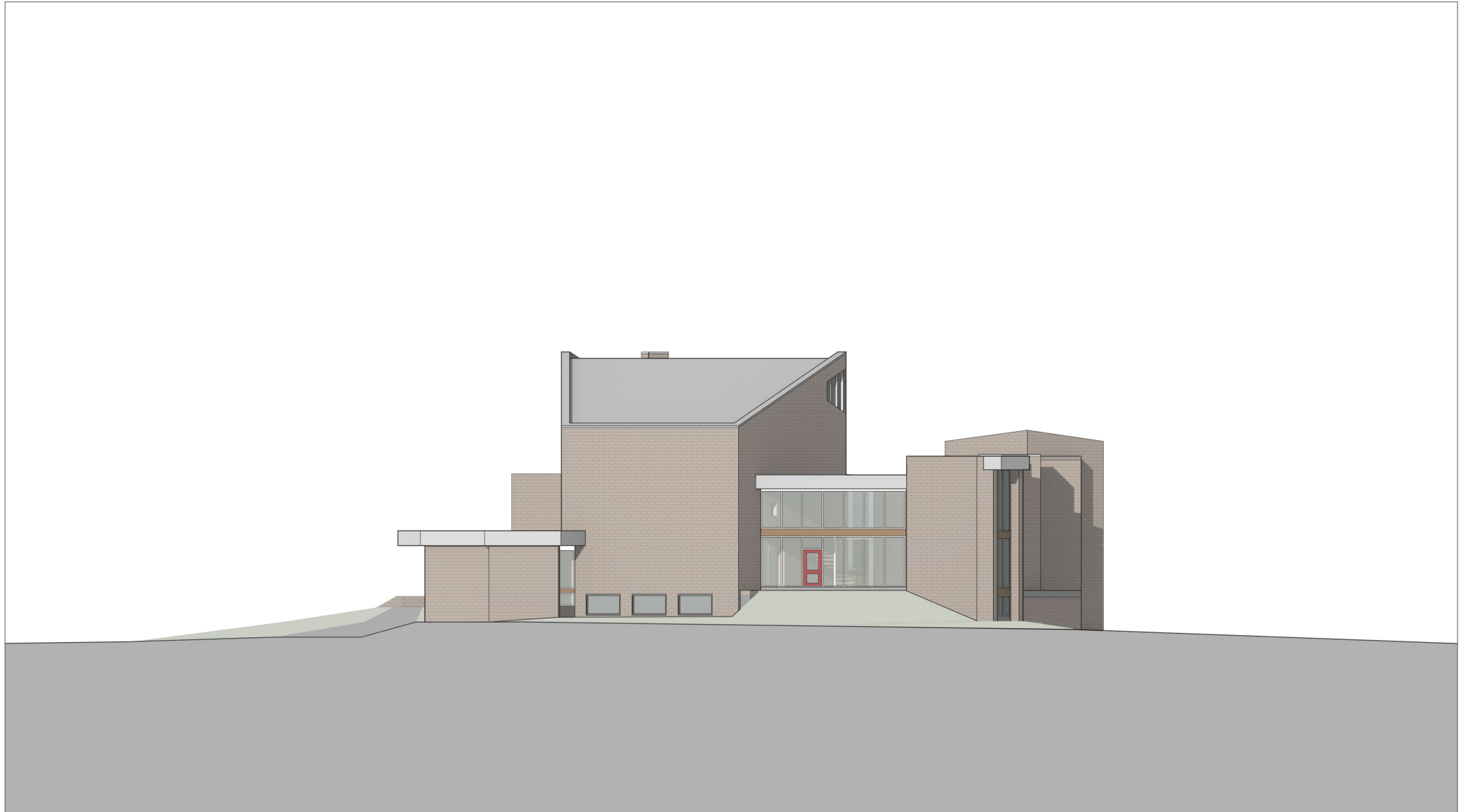


10m

**ORIGINAL WEST FACADE**  
SCALE : 1/200



**NEW WEST FACADE**  
SCALE : 1/200



ORIGINAL SOUTH FACADE

SCALE : 1/200



**NEW SOUTH FACADE**  
SCALE : 1/200



**ORIGINAL EAST FACADE**  
SCALE : 1/200





**NEW EAST FACADE**  
SCALE : 1/200

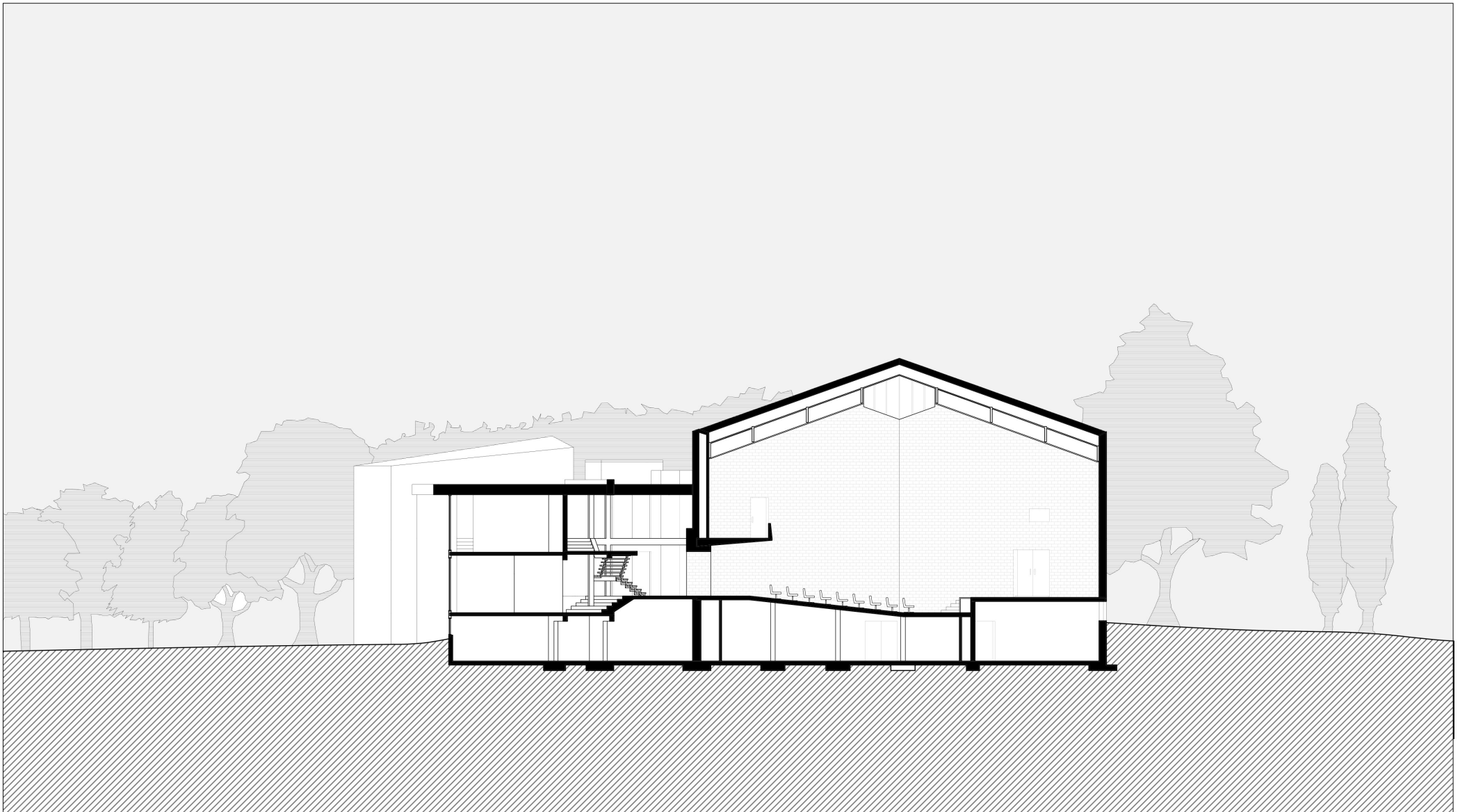


**ORIGINAL NORTH FACADE**

SCALE : 1/200

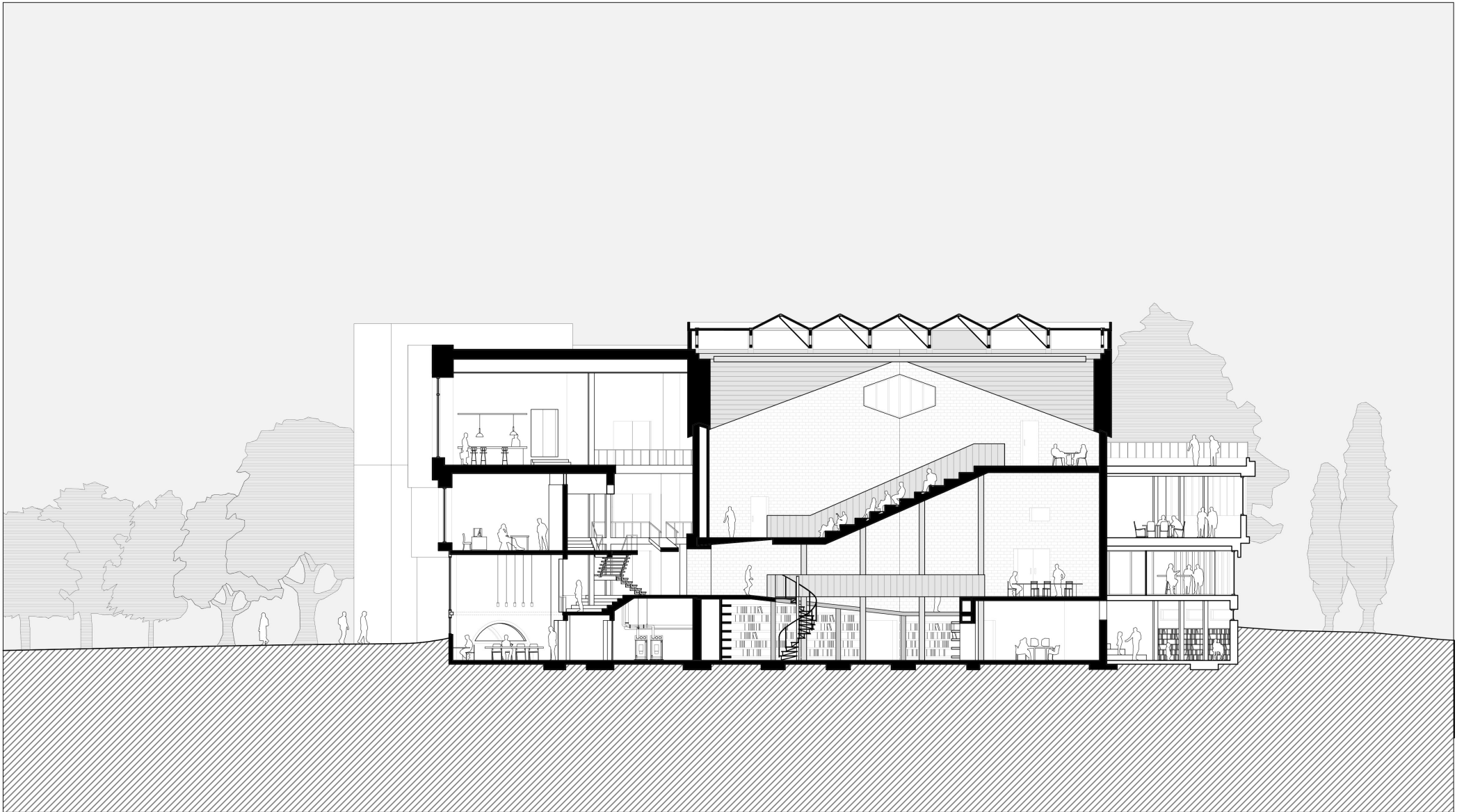


**NEW NORTH FACADE**  
SCALE : 1/200



10m

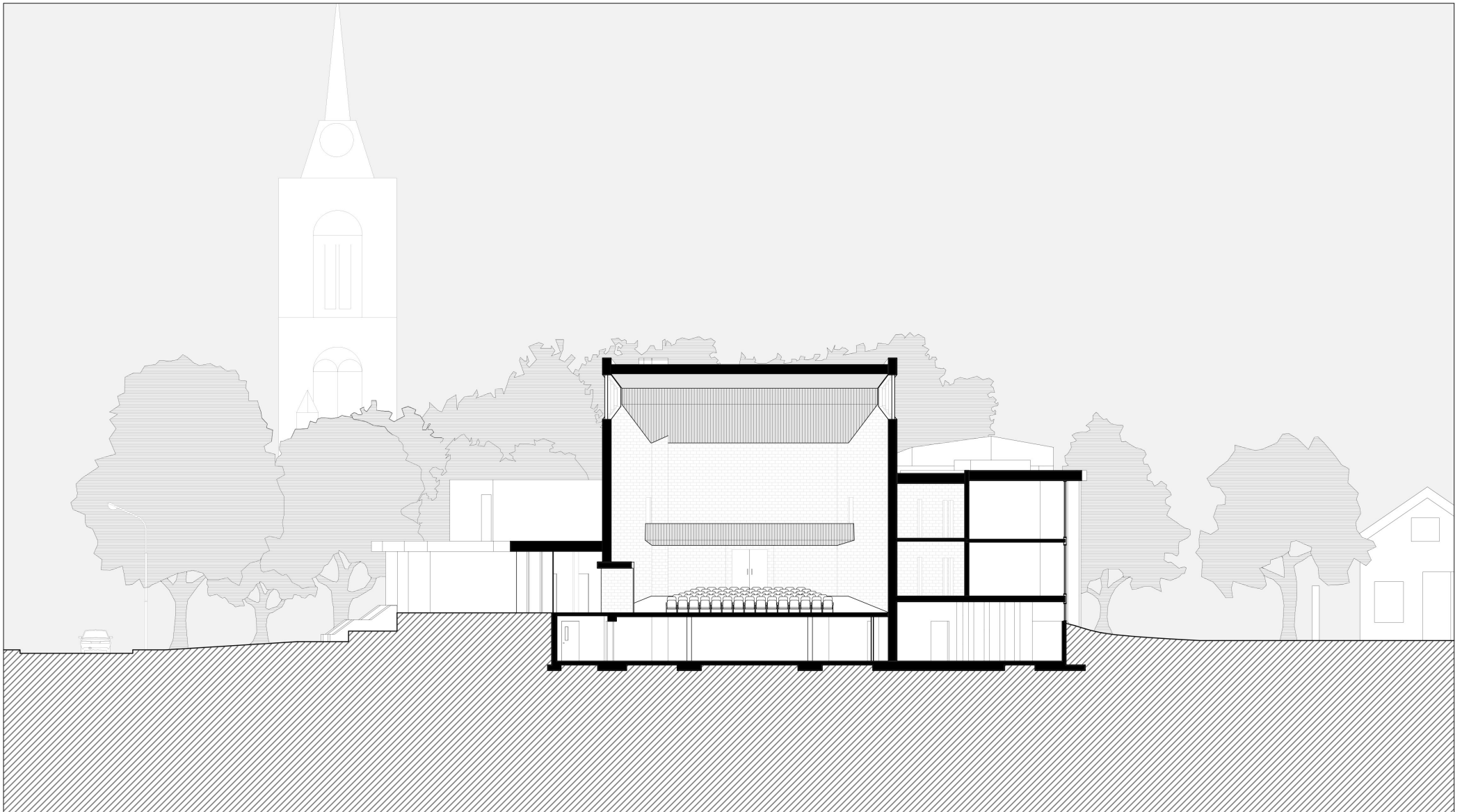
ORIGINAL LONGITUDINAL SECTION  
SCALE : 1/200



10m

NEW LONGITUDINAL SECTION

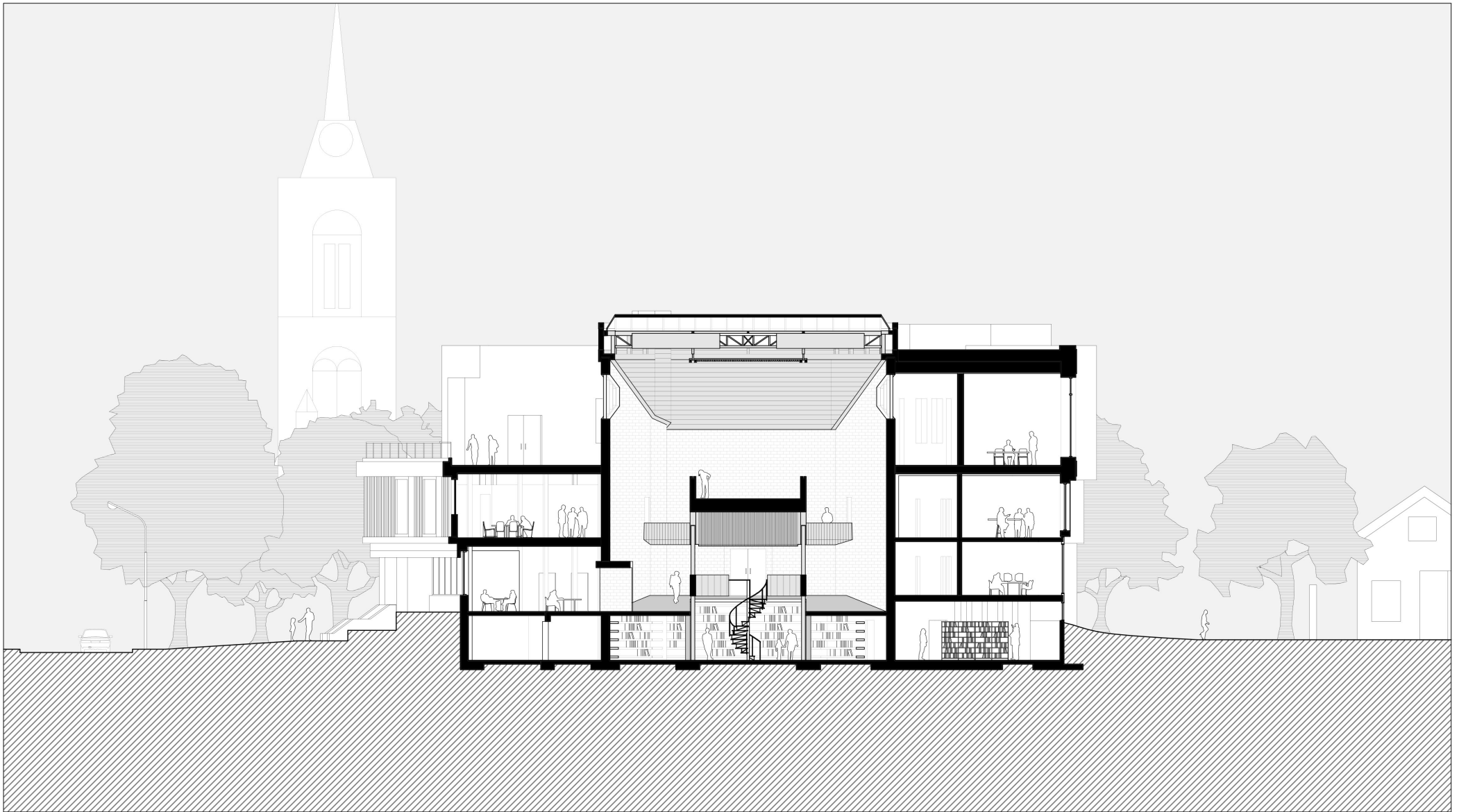
SCALE : 1/200



10m

ORIGINAL CROSS SECTION

SCALE : 1/200

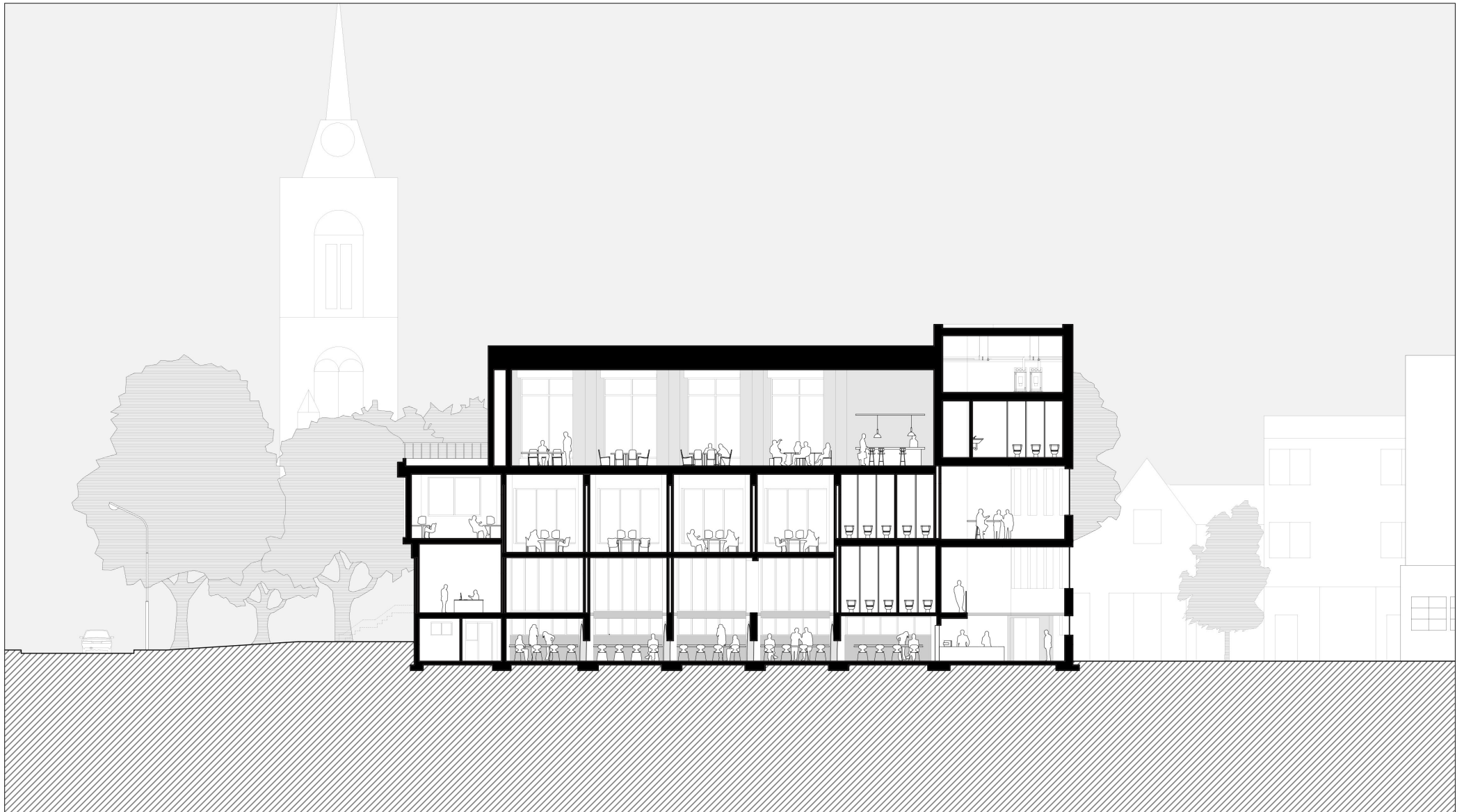


10m



**NEW CROSS SECTION**

SCALE : 1/200



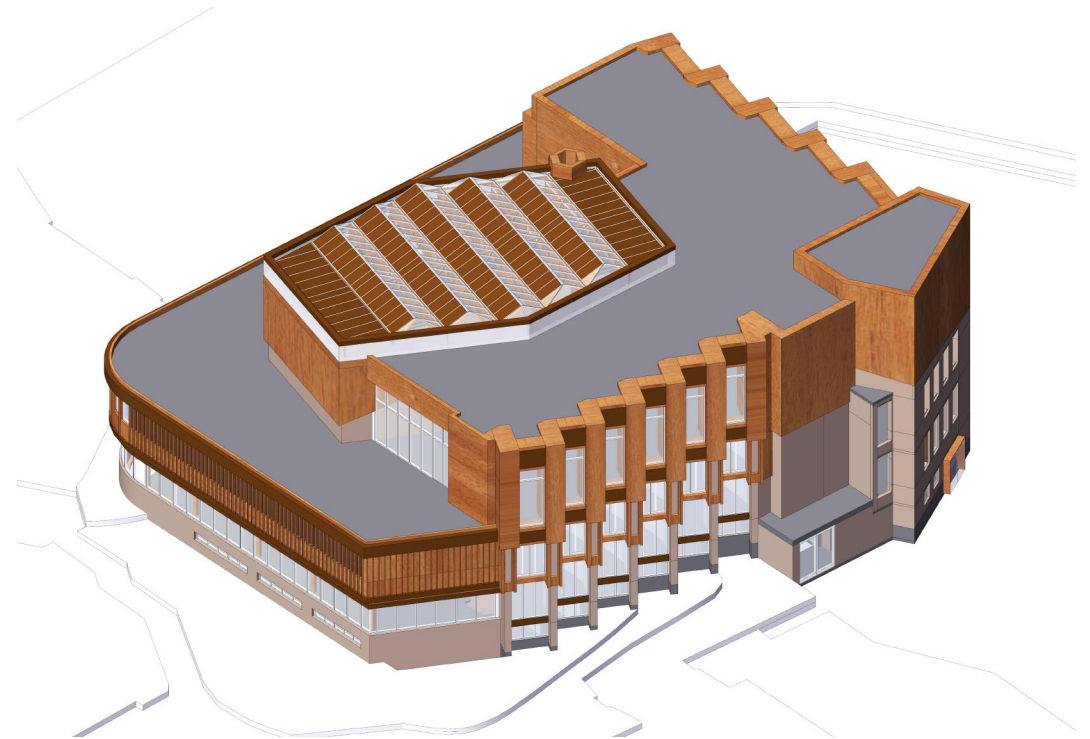
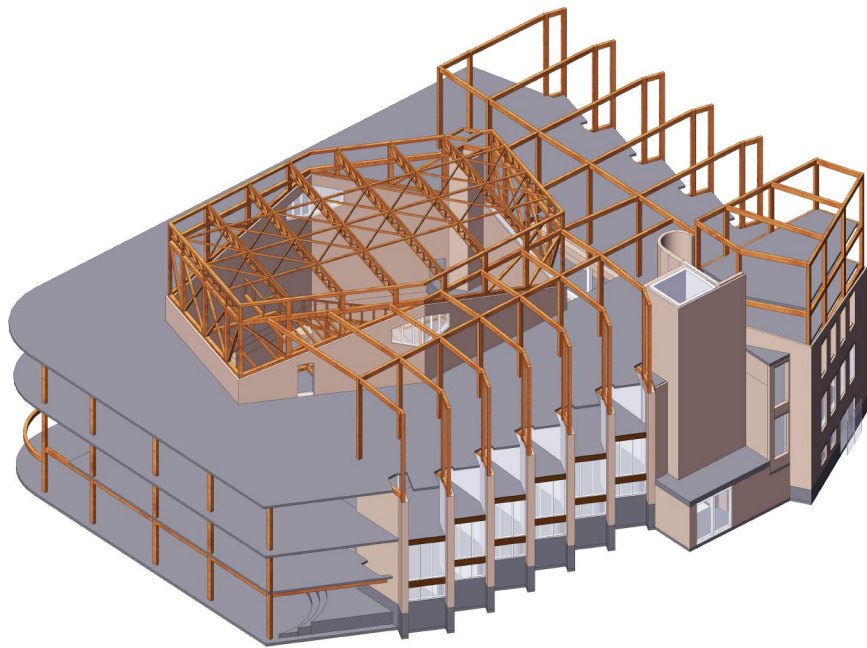
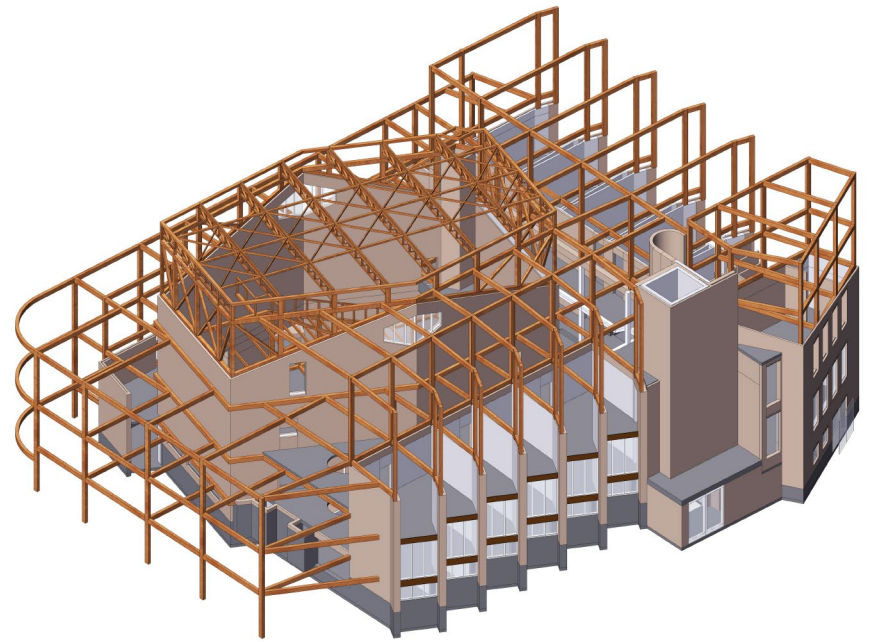
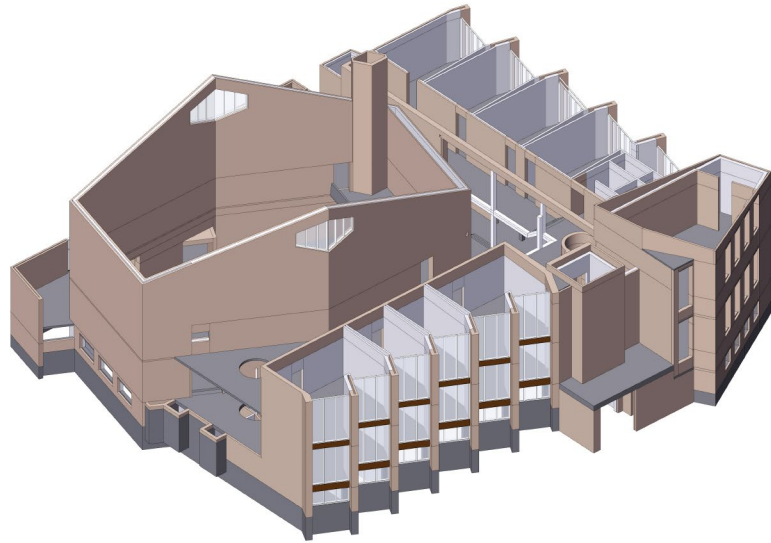
10m

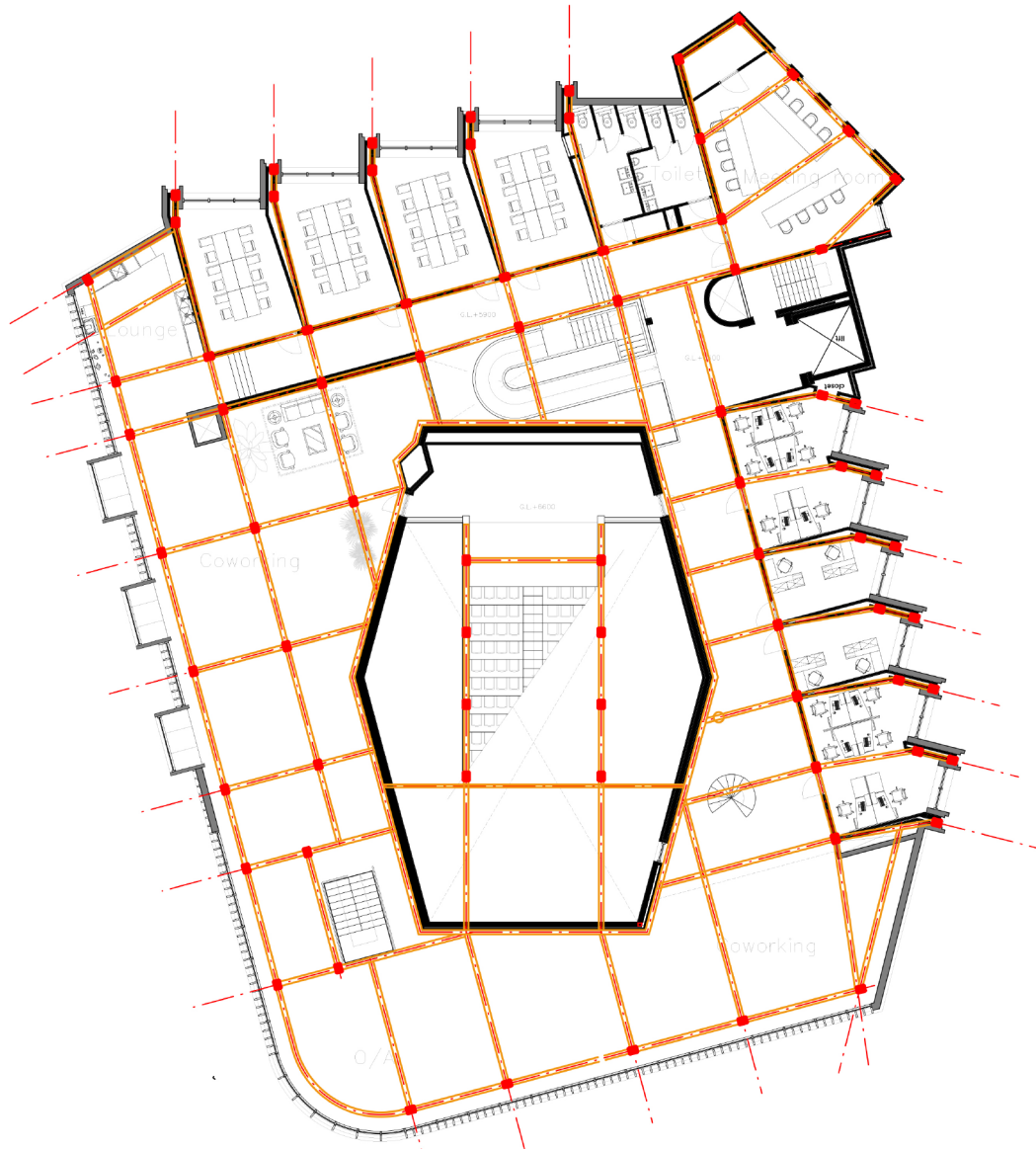


**CROSS SECTION 2**

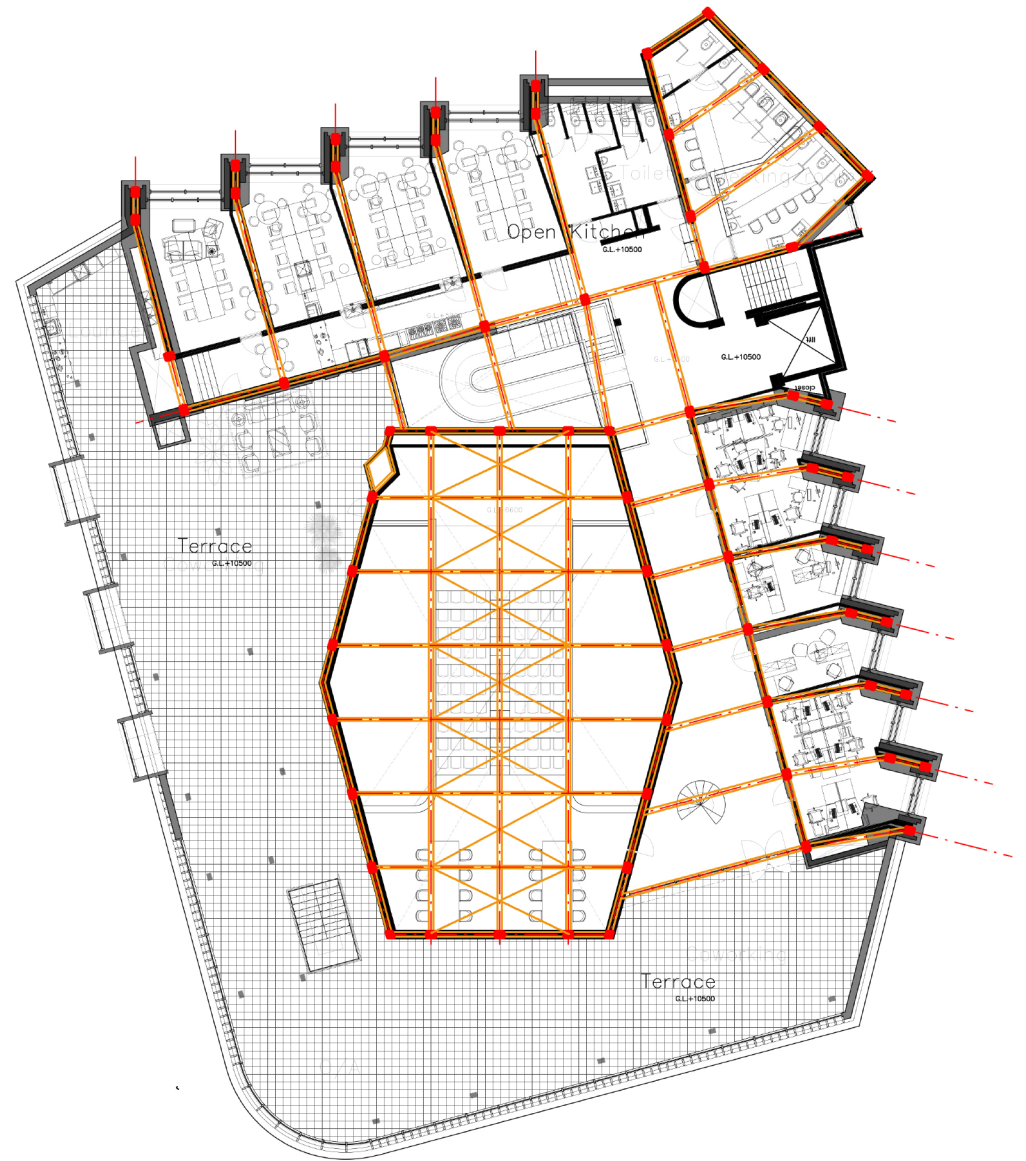
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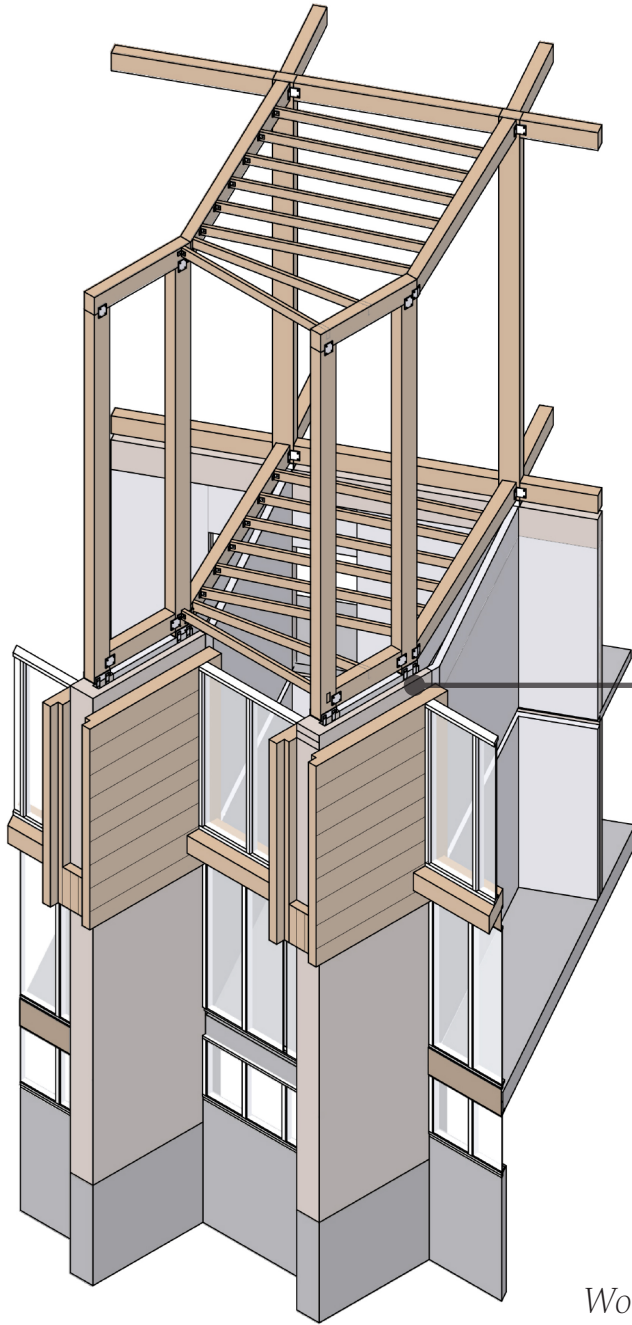




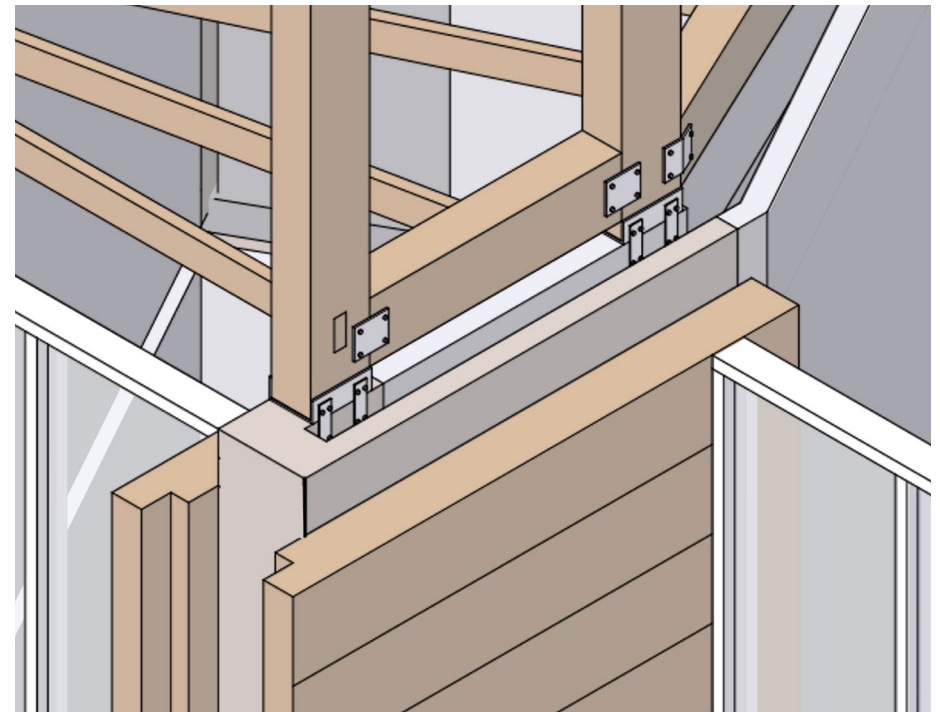
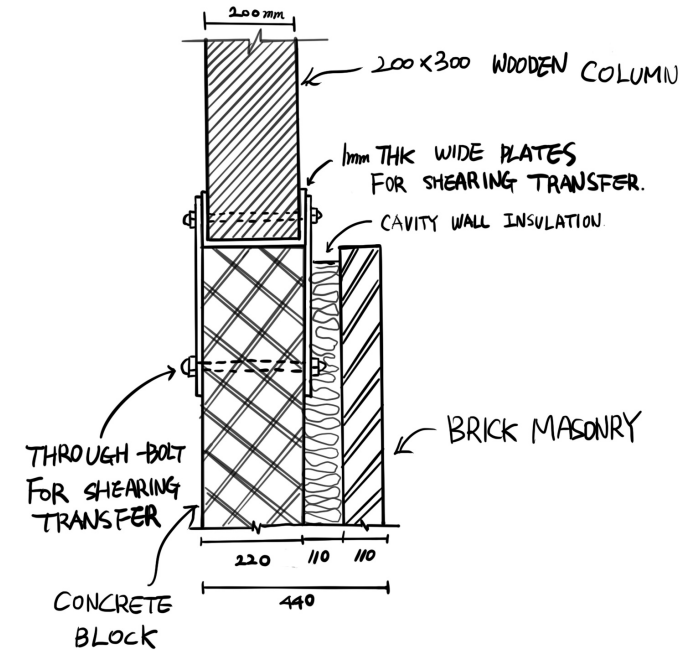
2ND FLOOR BEAM PLAN



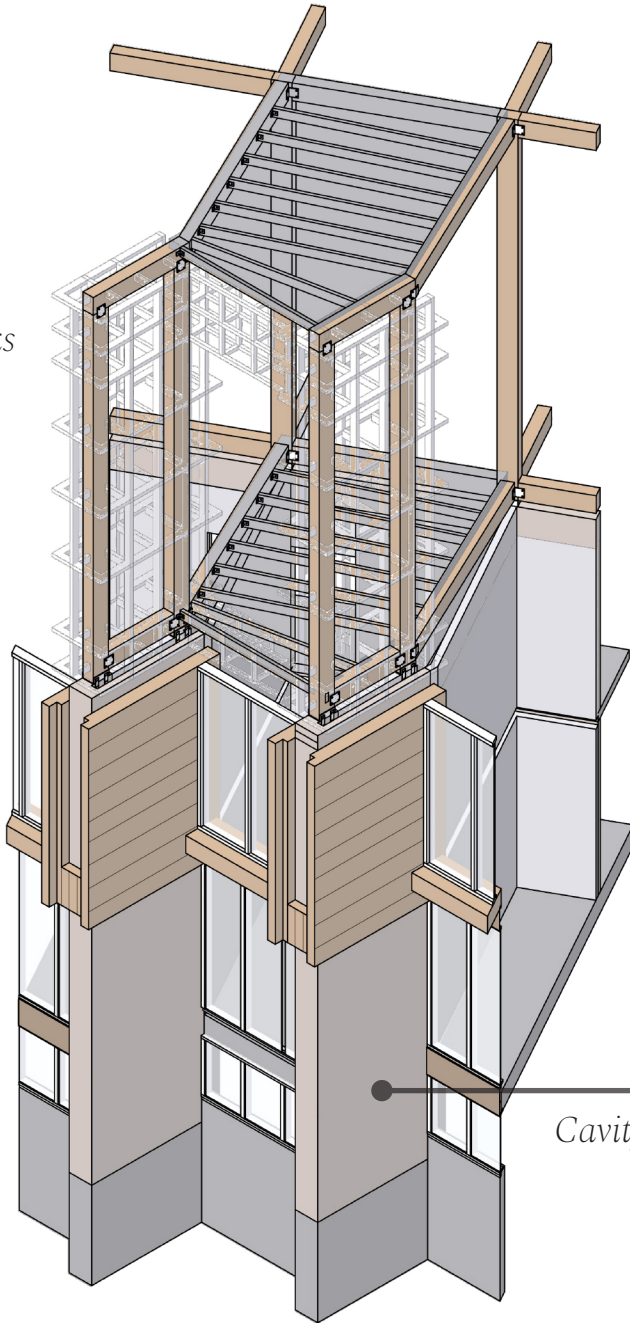
3RD FLOOR BEAM PLAN



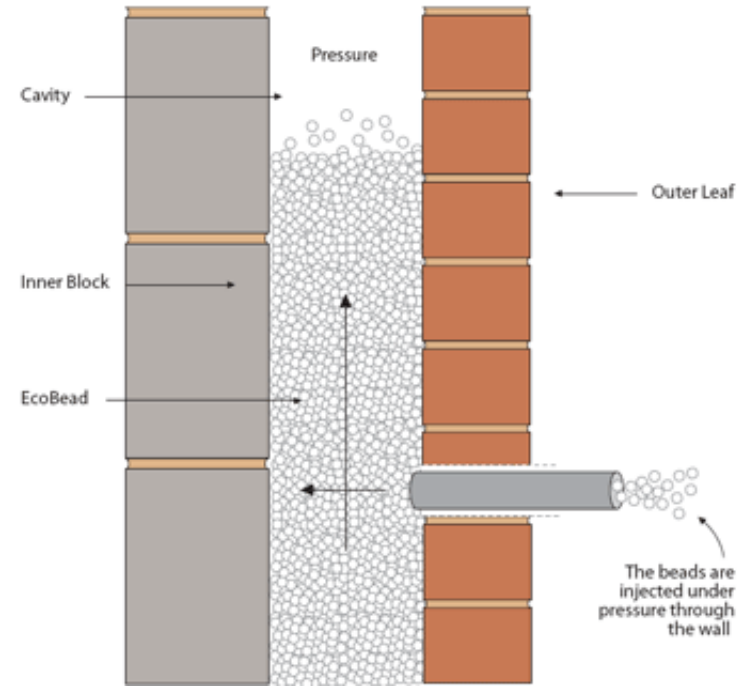
Wooden columns  
on the concrete block wall

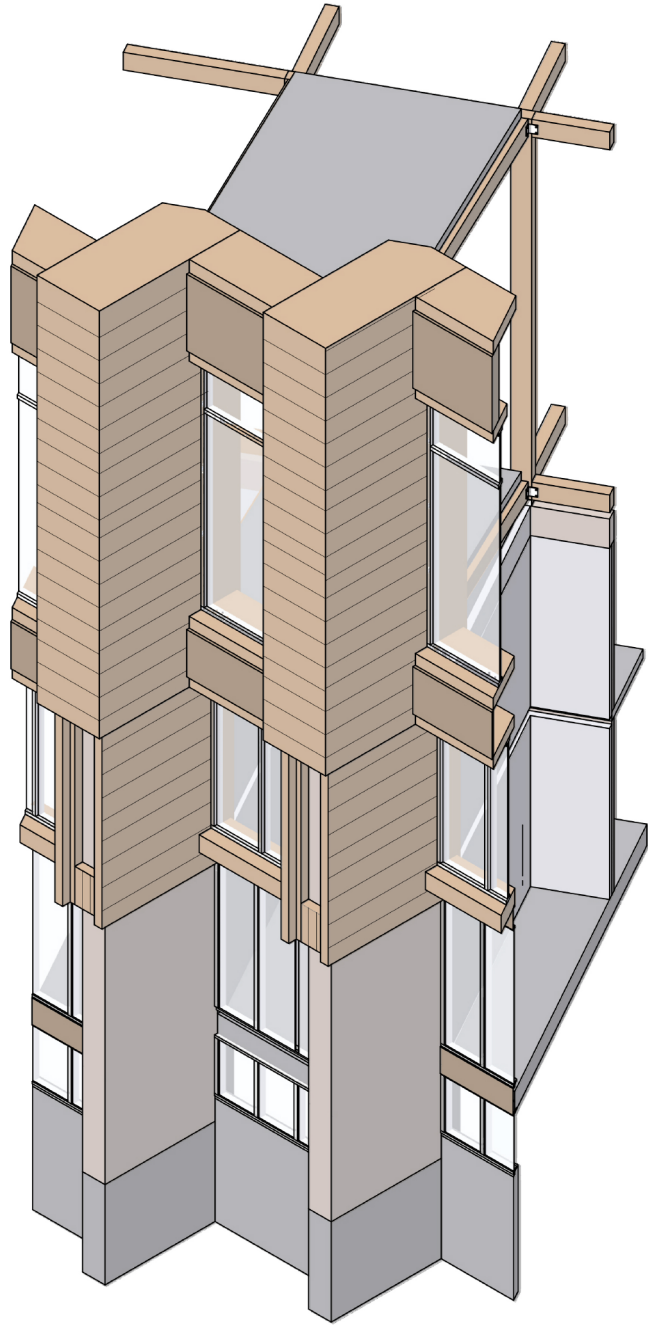


*Frameworks for facade*



*Cavity wall insulation*



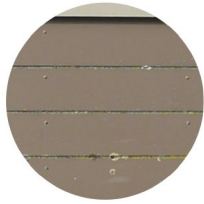


*Rainscreen Cladding*

*HPL Panel*

*Wooden frame*

*Brick*

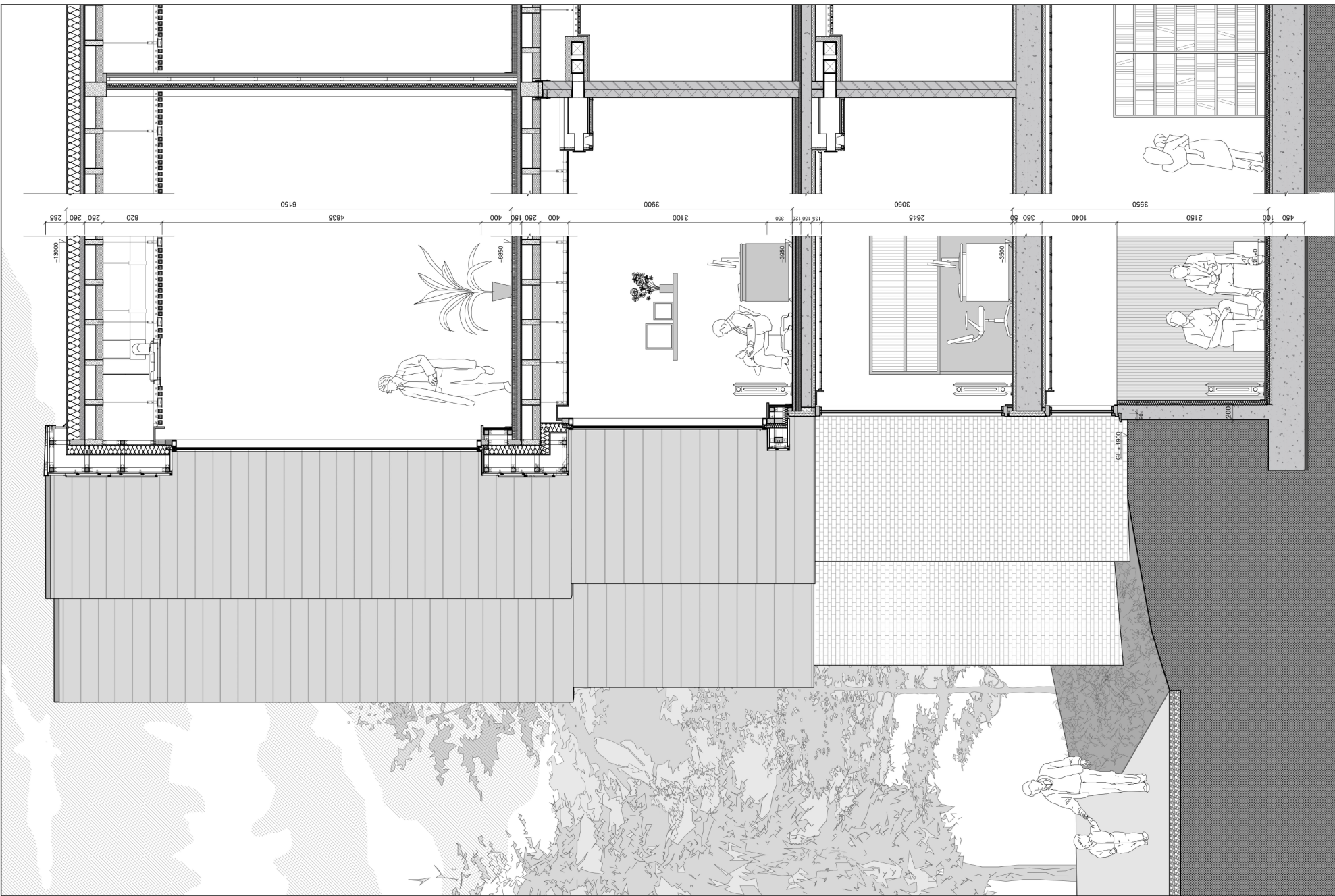


*HPL Panel*

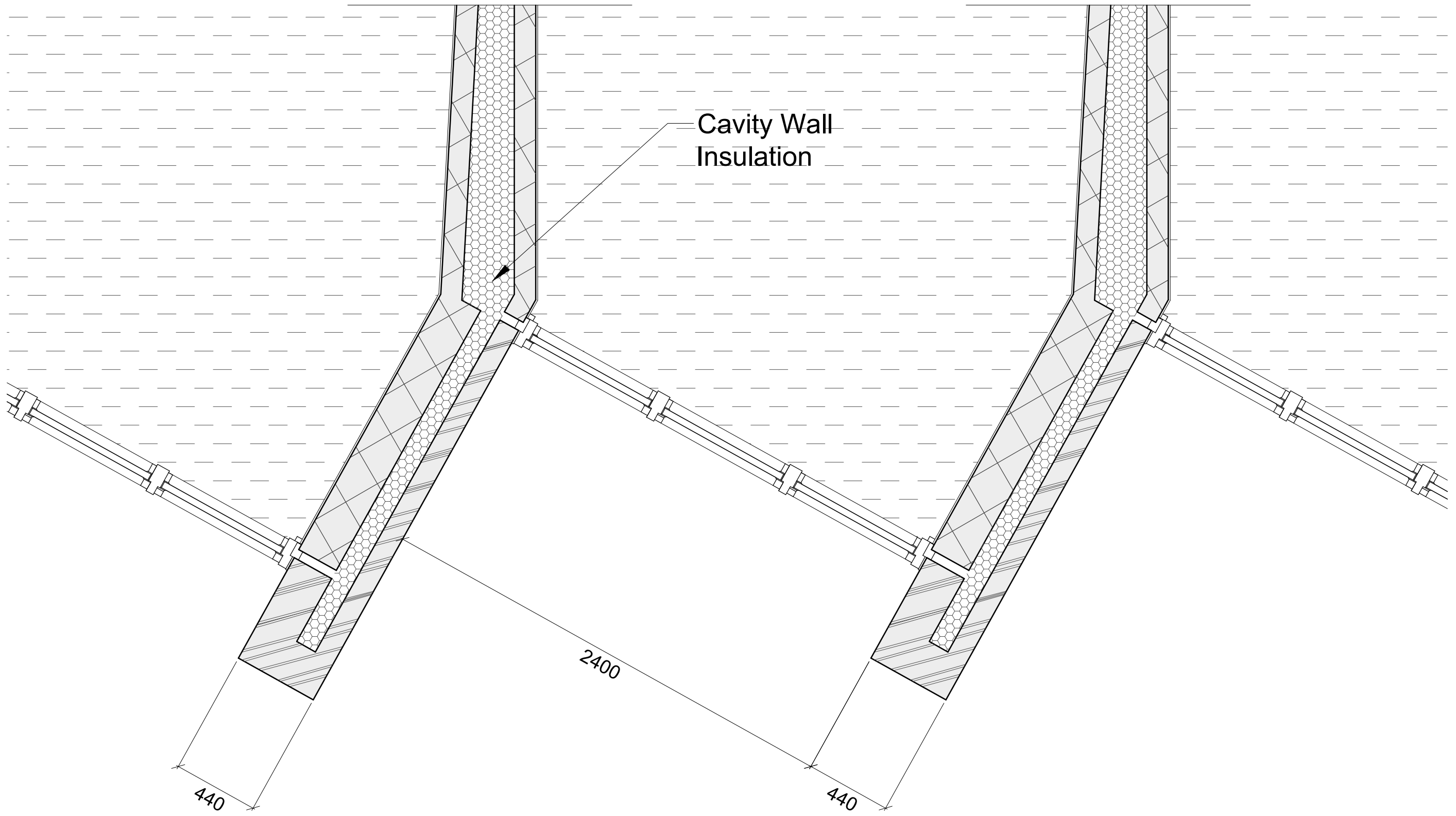
*Aluminum frame*

*Plywood*





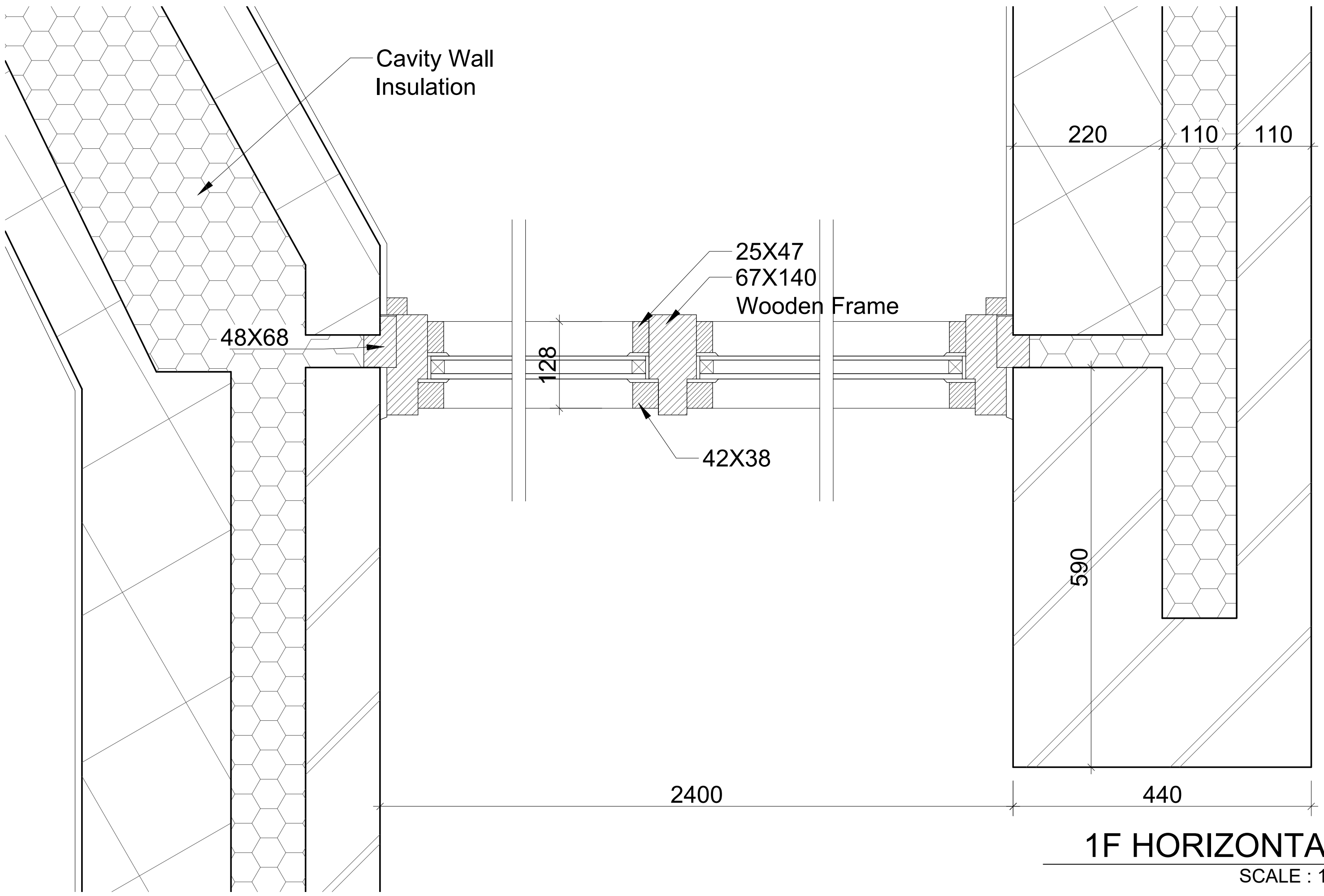
EAST FACADE SECTION  
SCALE : 1/25  
A1



**1F HORIZONTAL**

SCALE : 1/20





Cavity Wall  
Insulation

48X68

25X47  
67X140  
Wooden Frame

128

42X38

220

110

110

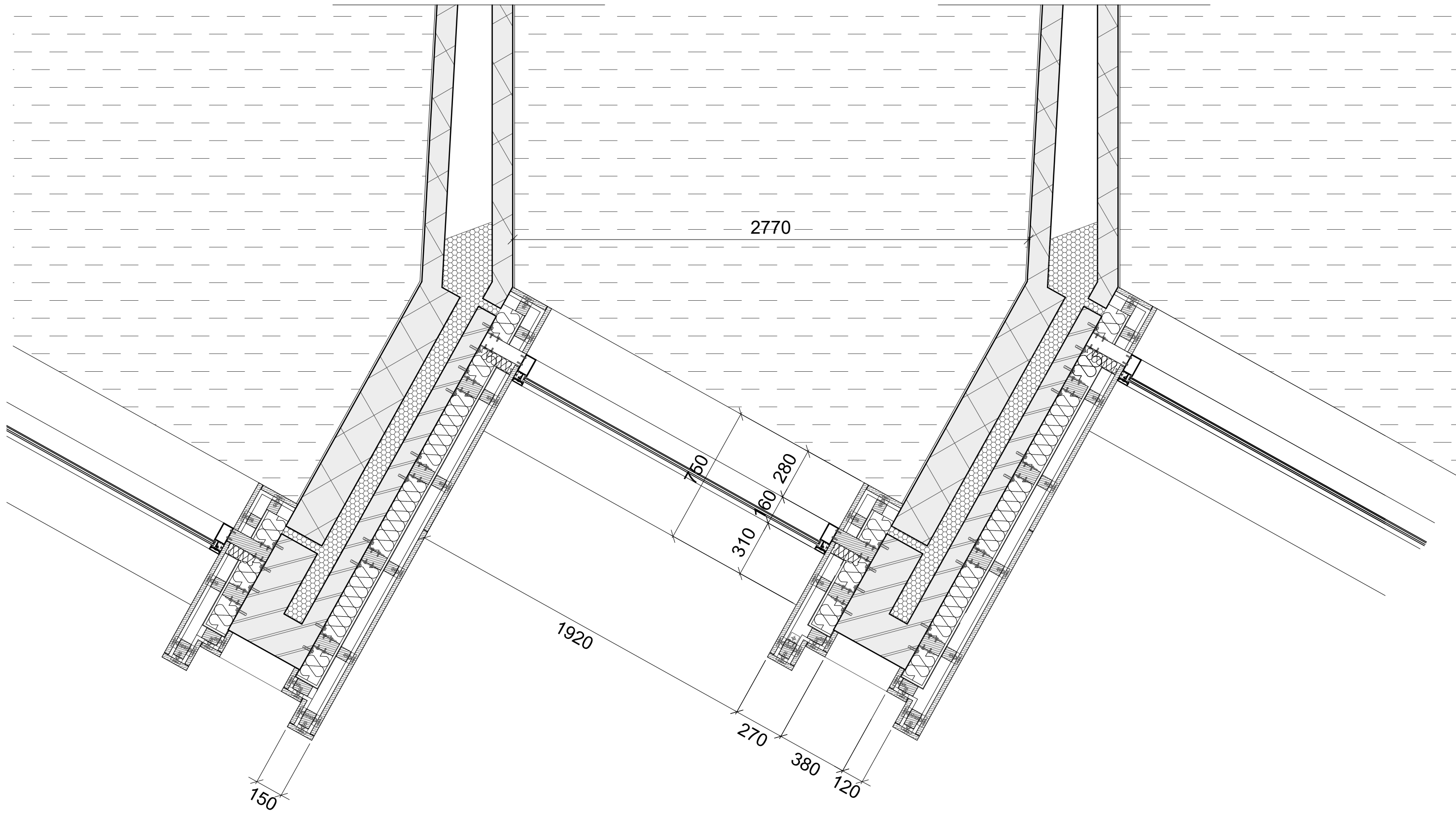
590

2400

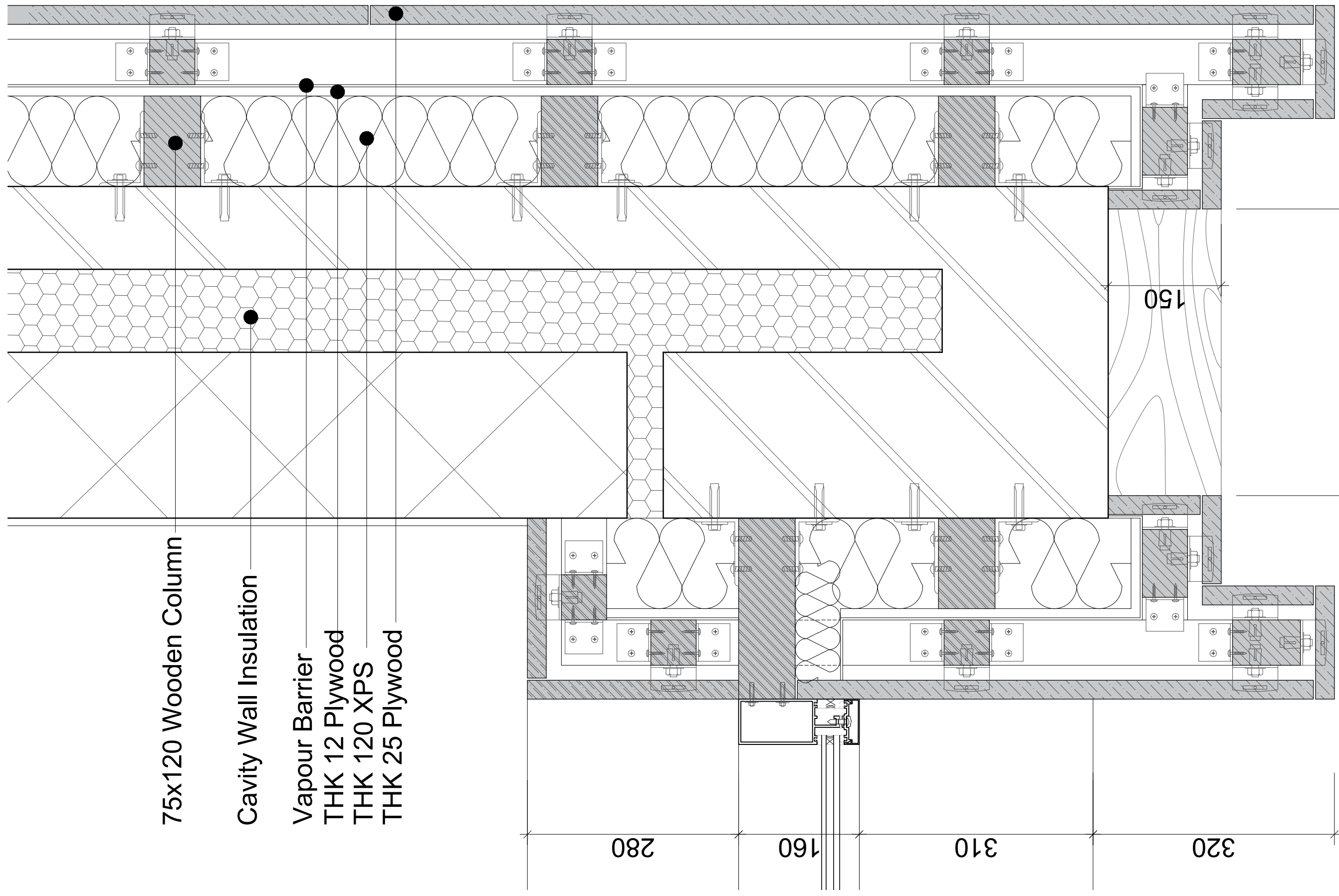
440

**1F HORIZONTAL**

SCALE : 1/5



**2F HORIZONTAL**  
SCALE : 1/20



75x120 Wooden Column

Cavity Wall Insulation

Vapour Barrier

THK 12 Plywood

THK 120 XPS

THK 25 Plywood

280

160

310

320

150

120

380

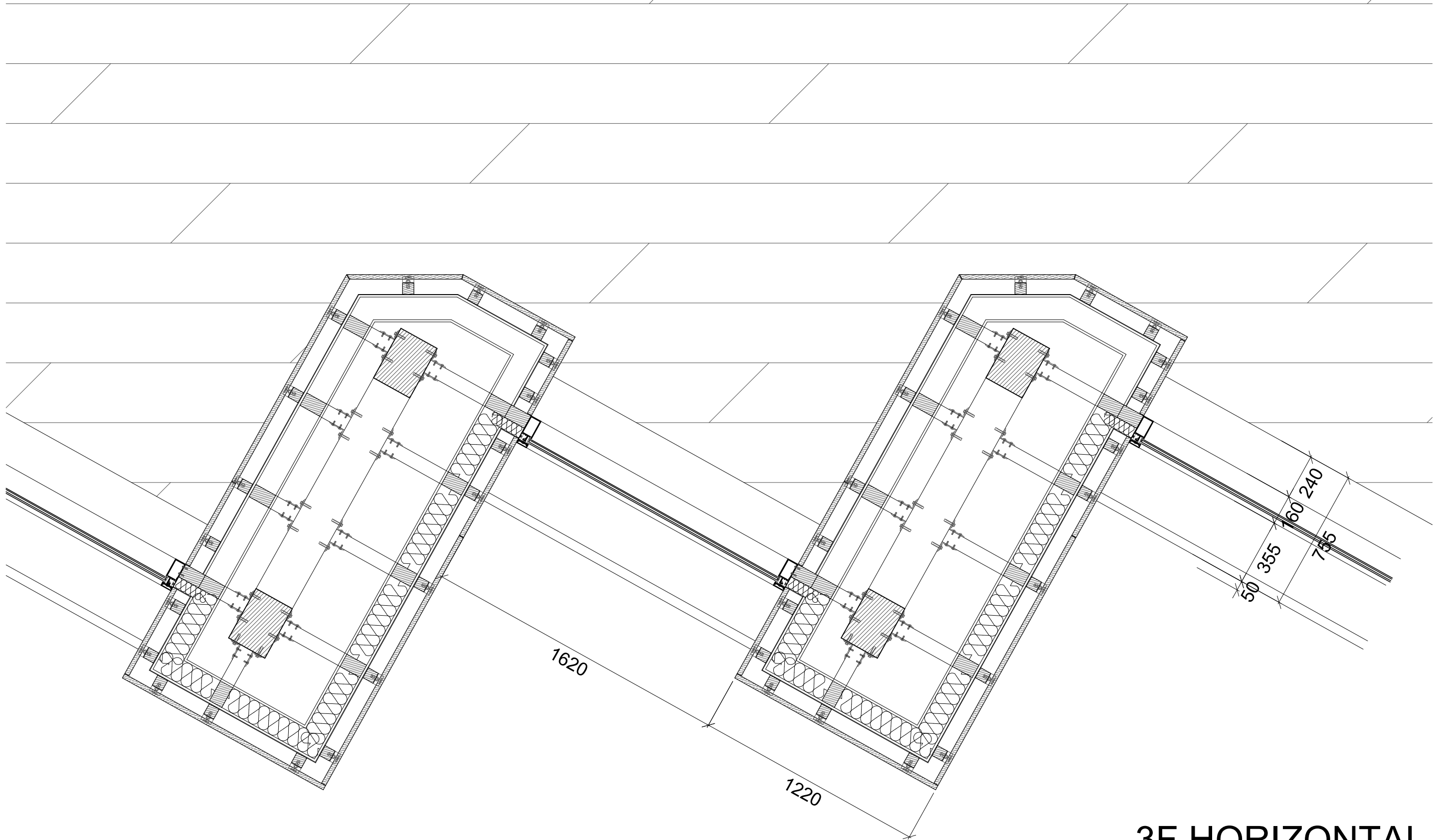
120

150

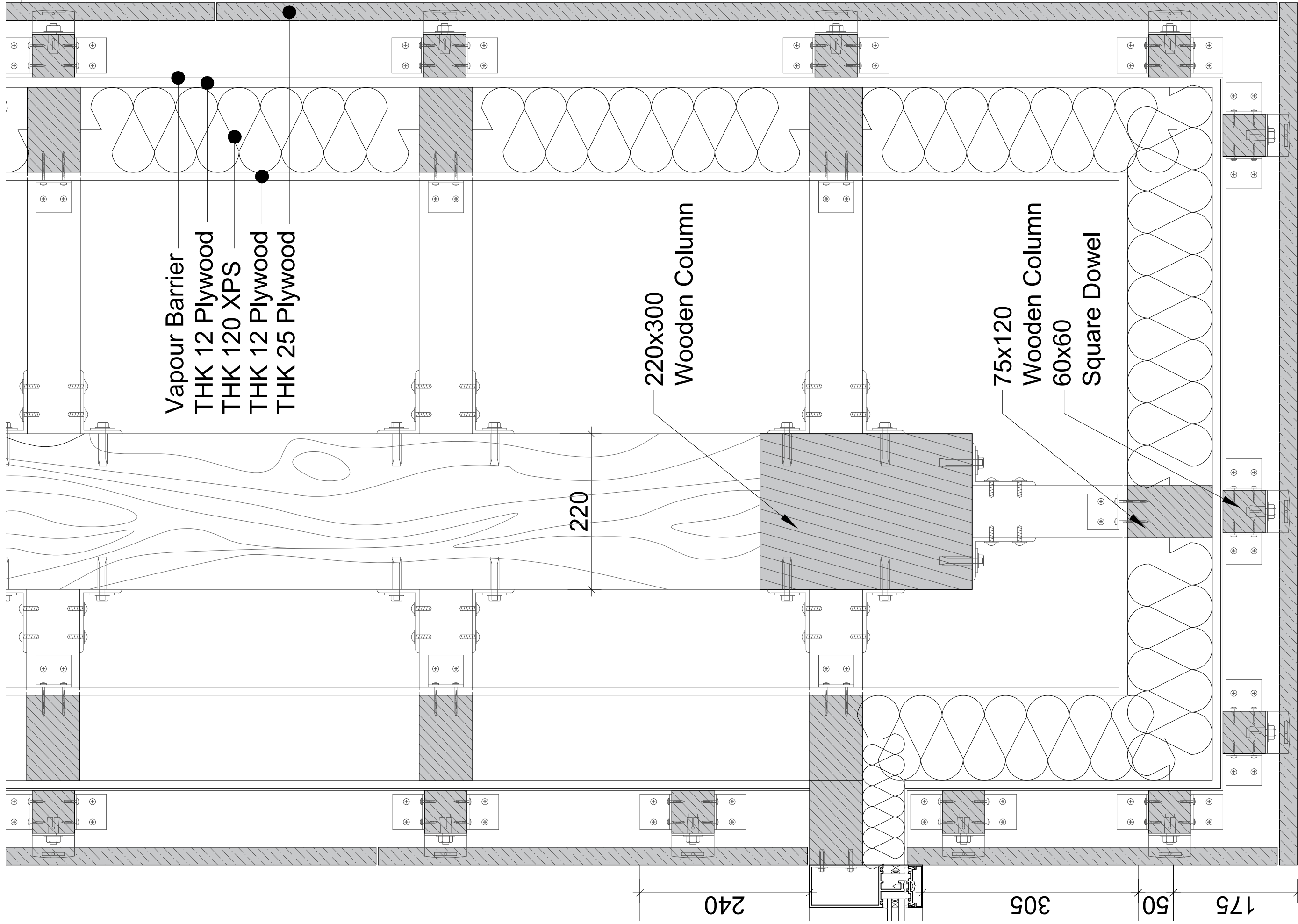
150

2F HORIZONTAL

SCALE : 1/5



**3F HORIZONTAL**  
SCALE : 1/20



Vapour Barrier  
 THK 12 Plywood  
 THK 120 XPS  
 THK 12 Plywood  
 THK 25 Plywood

220x300  
 Wooden Column

75x120  
 Wooden Column  
 60x60  
 Square Dowel

220

240

305

50

175

1220

3F HORIZONTAL

SCALE : 1/5

THK 24 Pair Glass  
60x160 Aluminum Frame  
THK 25 Plywood  
75x120 Wooden Beam  
THK 60 XPS  
& Vapour Barrier

HPL Panel on Filling Wood  
THK 40/30/50 Rockwool

Linoleum on Cork Underlay  
THK 50 Vermisol Cement Floor & Polyethylene  
THK 15 Woodwool Pad  
THK 25 SF 325 Plate  
THK 30 Cement Floor  
THK 150 RC Slab

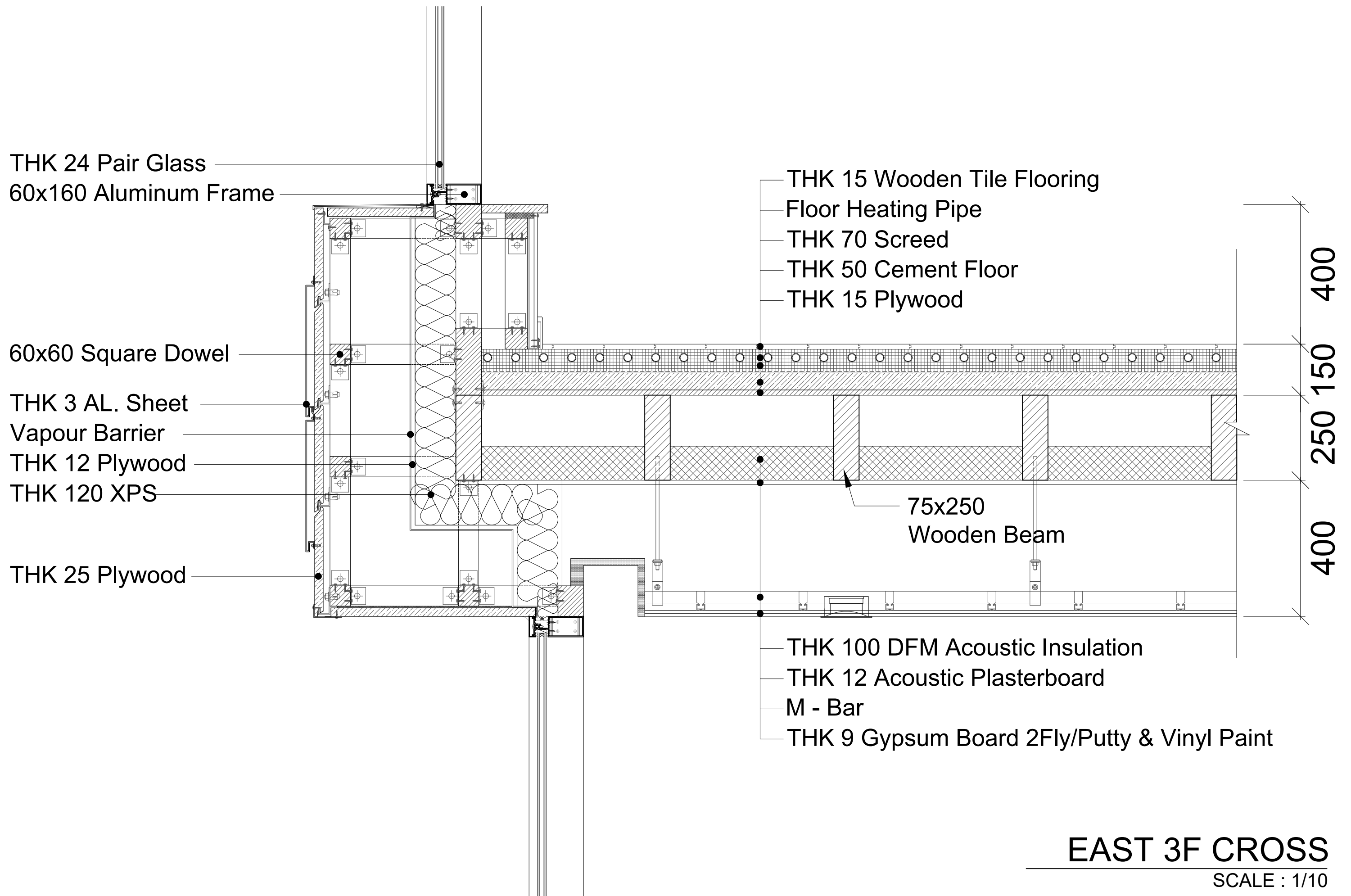
+3950

350  
120  
150  
135

THK 50 DFM Acoustic Insulation  
THK 20 Sound-Absolving Board

**EAST 2F CROSS**

SCALE : 1/10



THK 24 Pair Glass  
60x160 Aluminum Frame

60x60 Square Dowel

THK 3 AL. Sheet  
Vapour Barrier  
THK 12 Plywood  
THK 120 XPS

THK 25 Plywood

THK 15 Wooden Tile Flooring  
Floor Heating Pipe  
THK 70 Screed  
THK 50 Cement Floor  
THK 15 Plywood

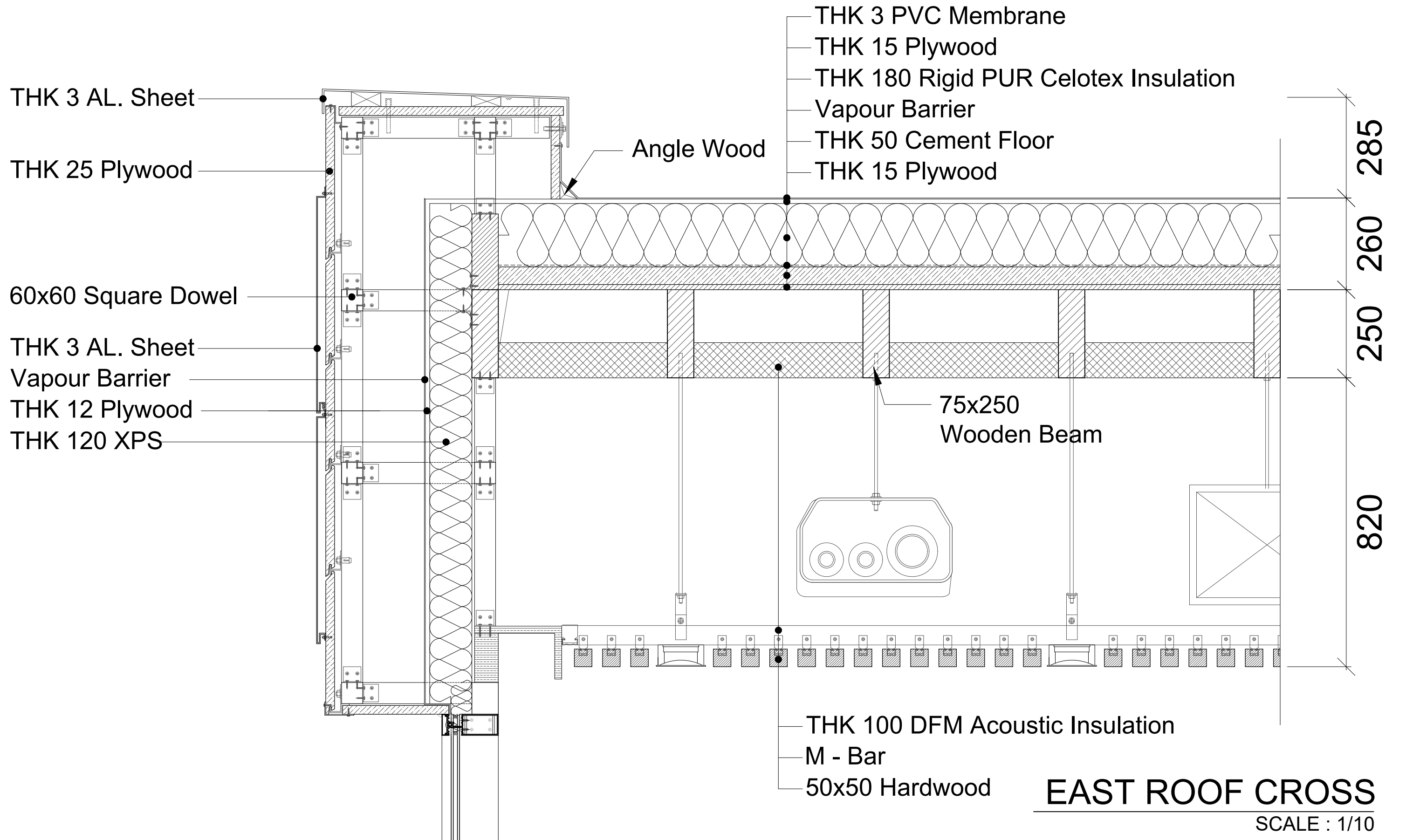
75x250  
Wooden Beam

THK 100 DFM Acoustic Insulation  
THK 12 Acoustic Plasterboard  
M - Bar  
THK 9 Gypsum Board 2Fly/Putty & Vinyl Paint

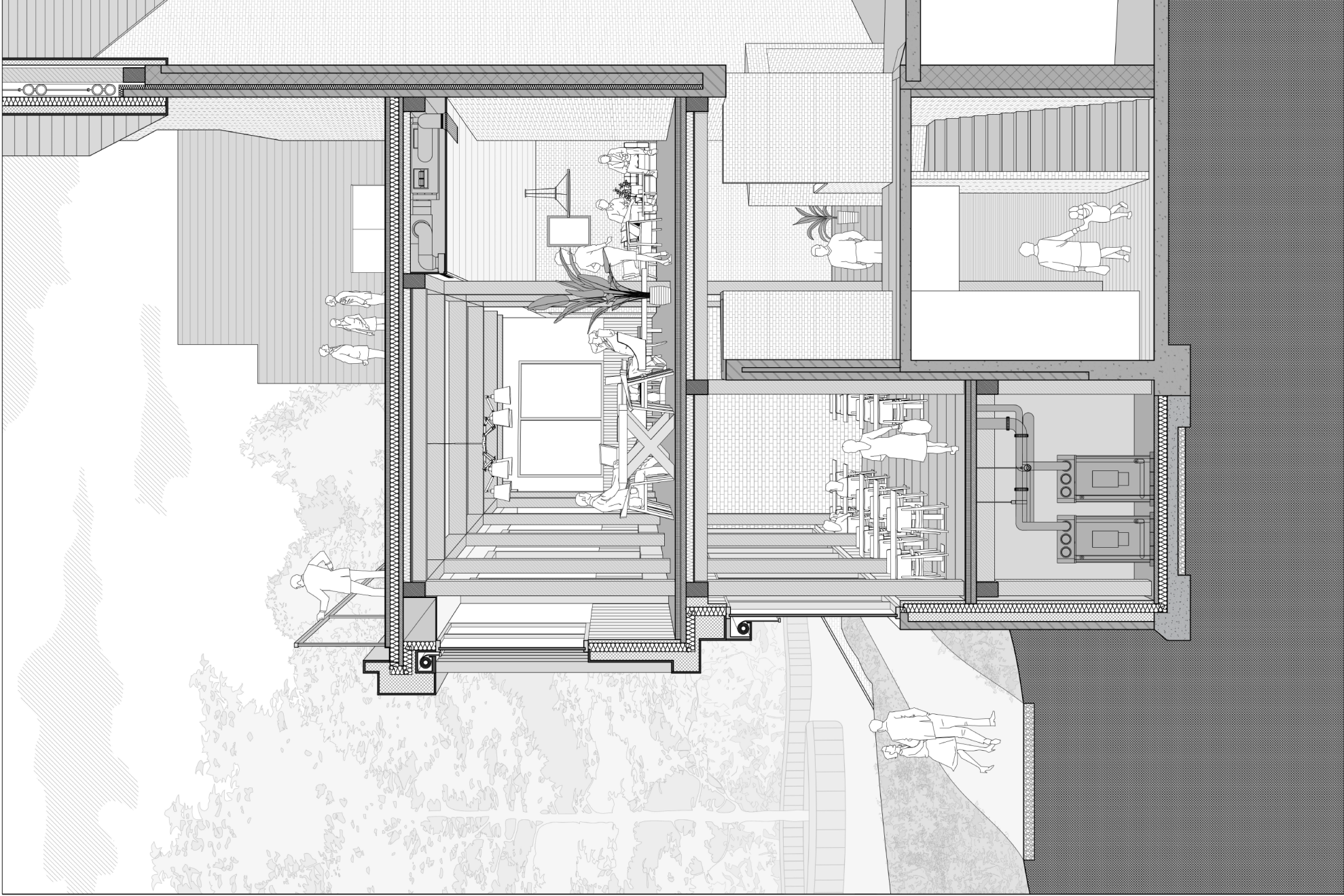
400  
150  
400

**EAST 3F CROSS**

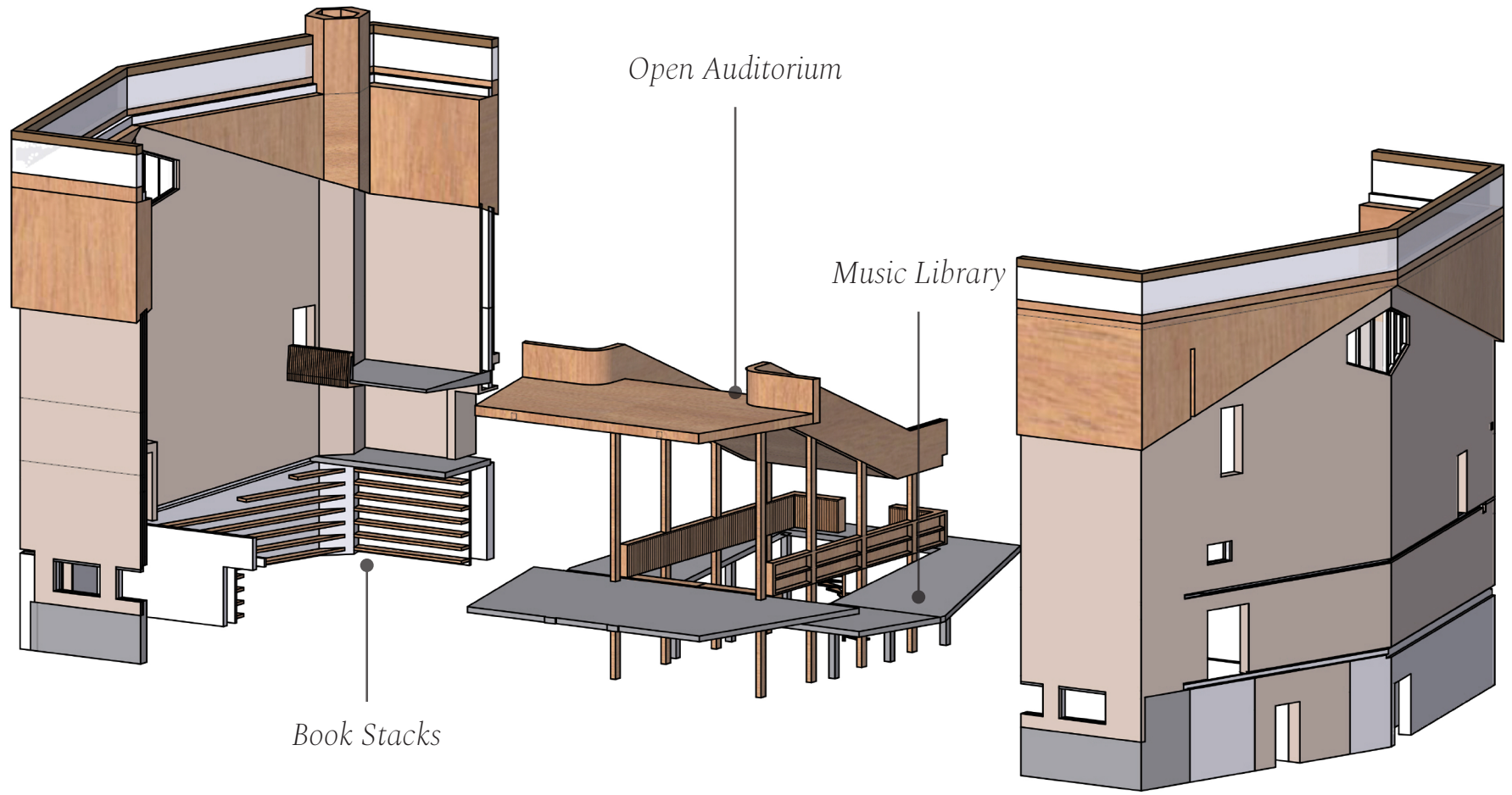
SCALE : 1/10







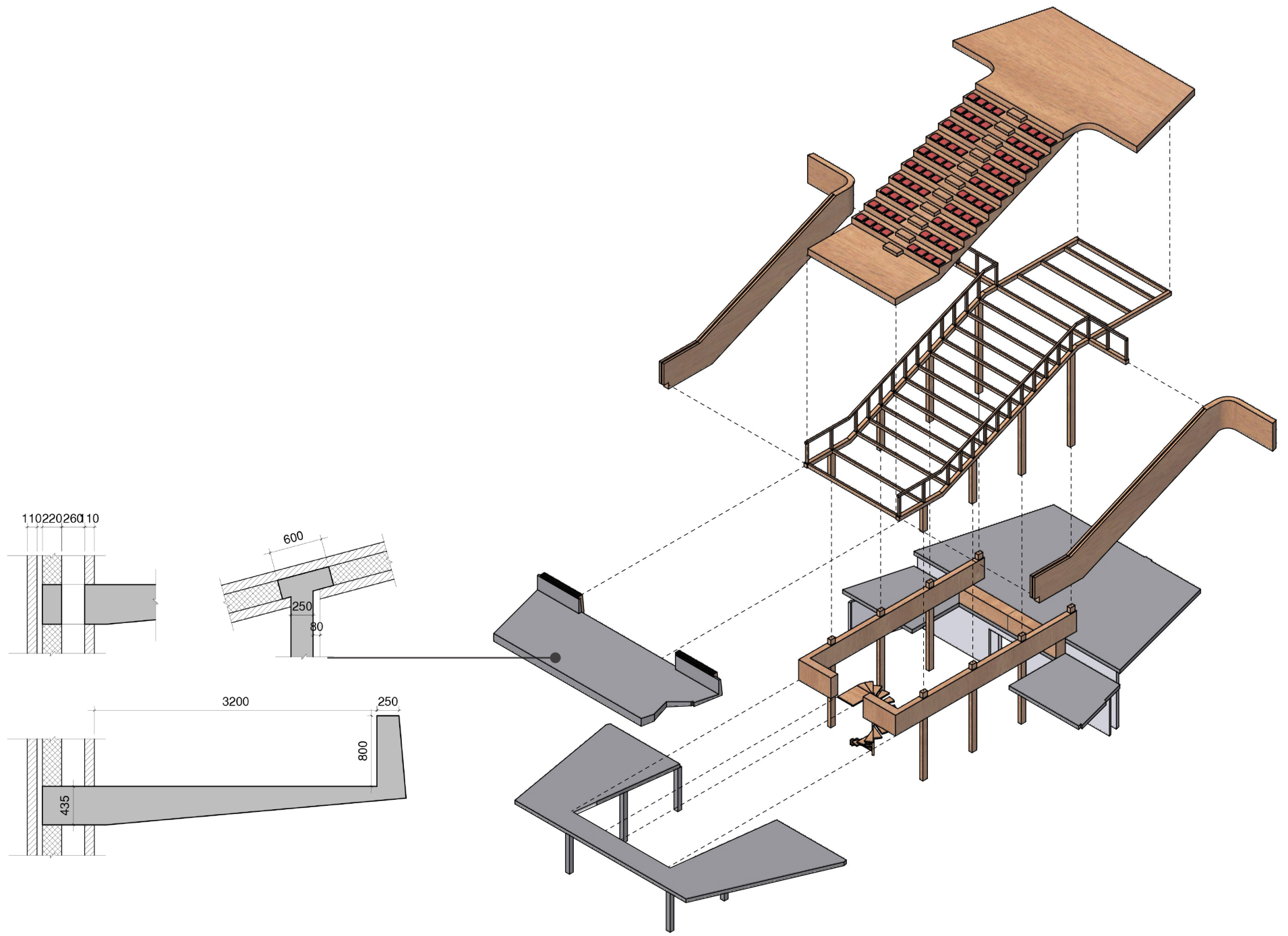


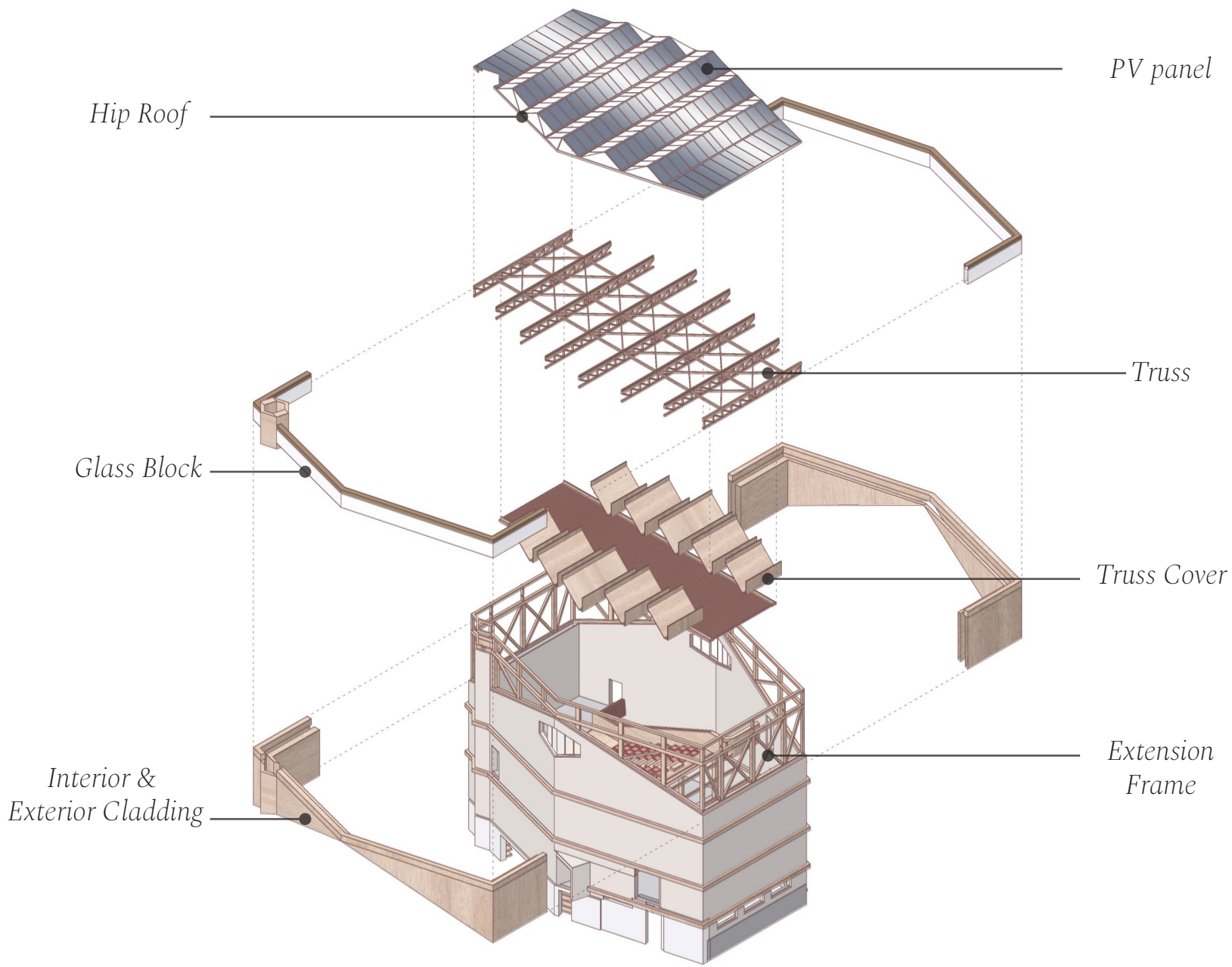


*Open Auditorium*

*Music Library*

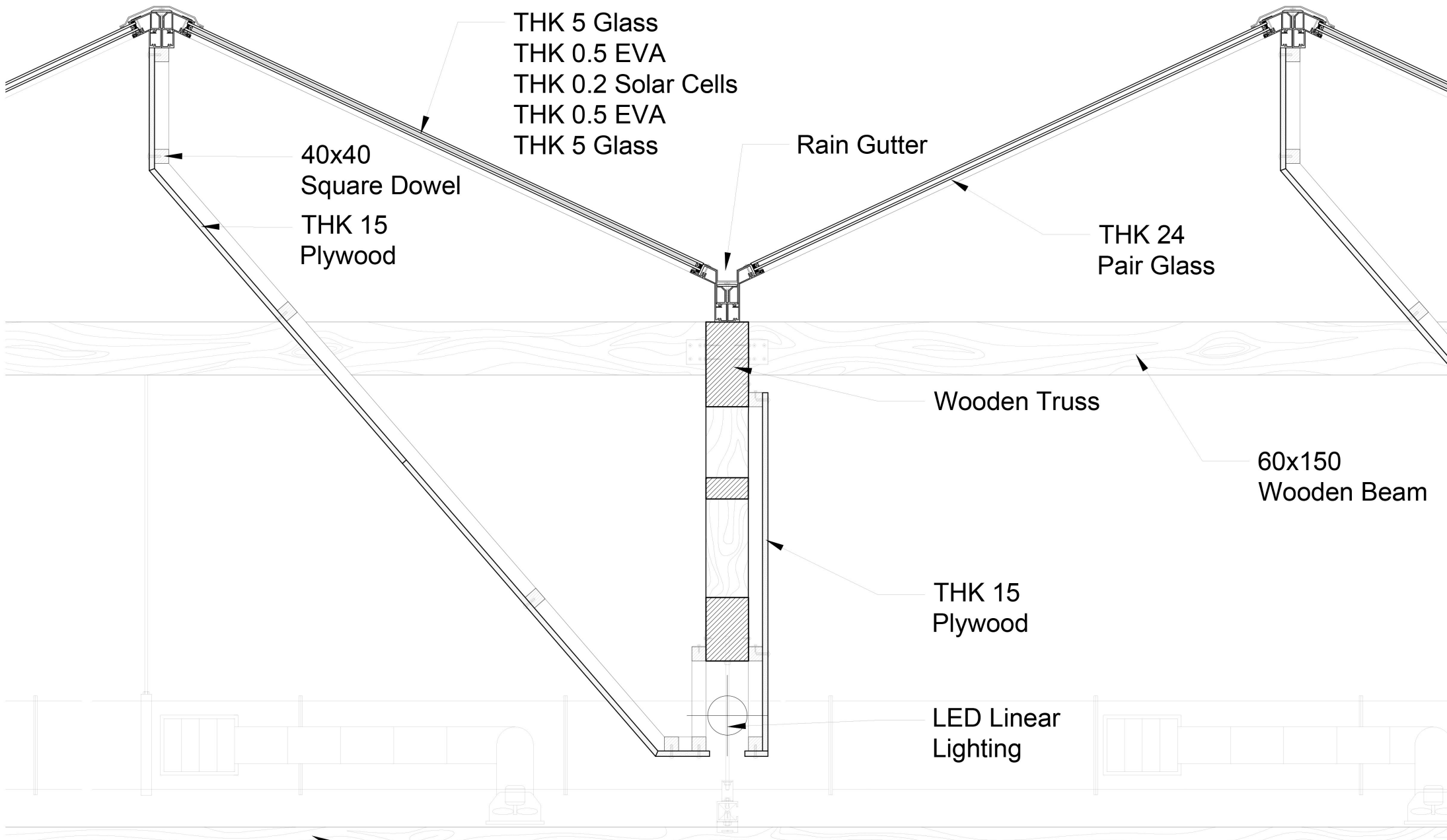
*Book Stacks*



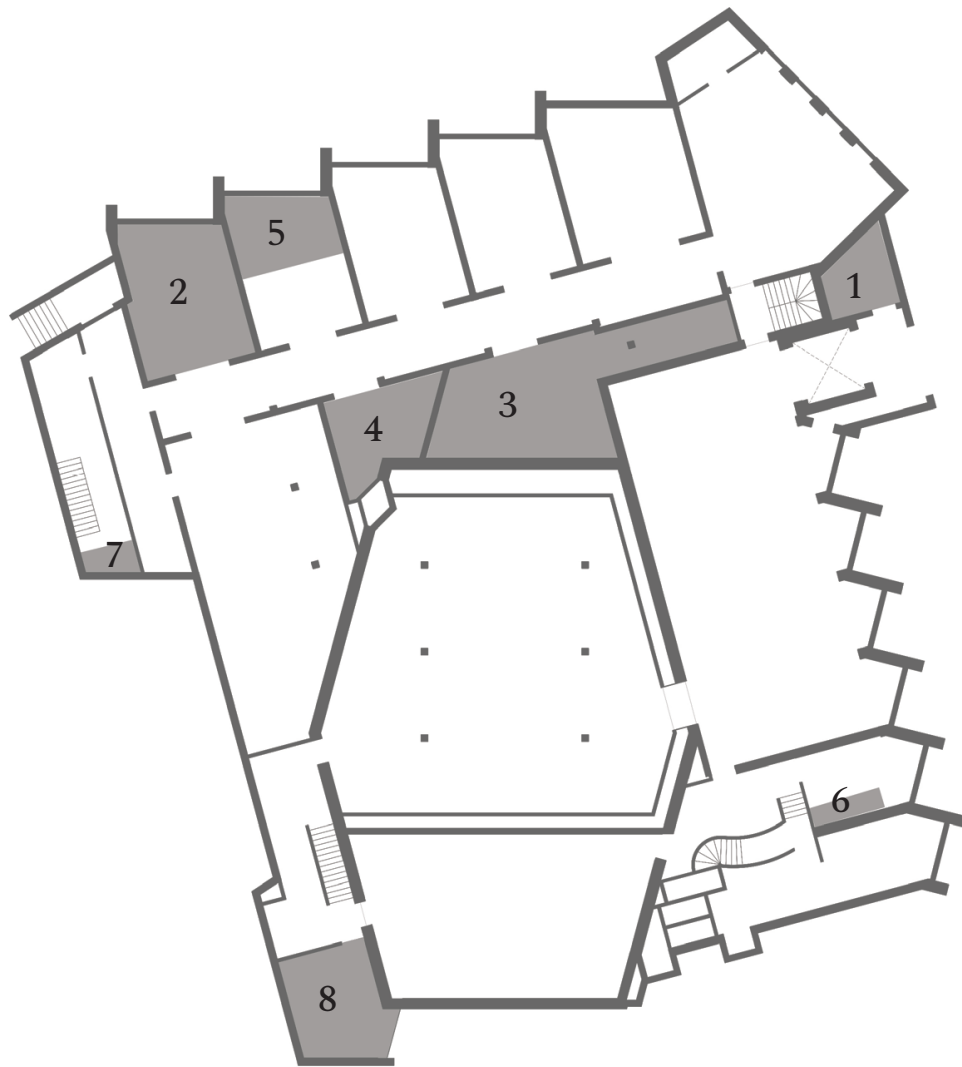


**STRUCTURE**

**ROOF STRUCTURE**



**ROOF SECTION**  
 SCALE : 1/10

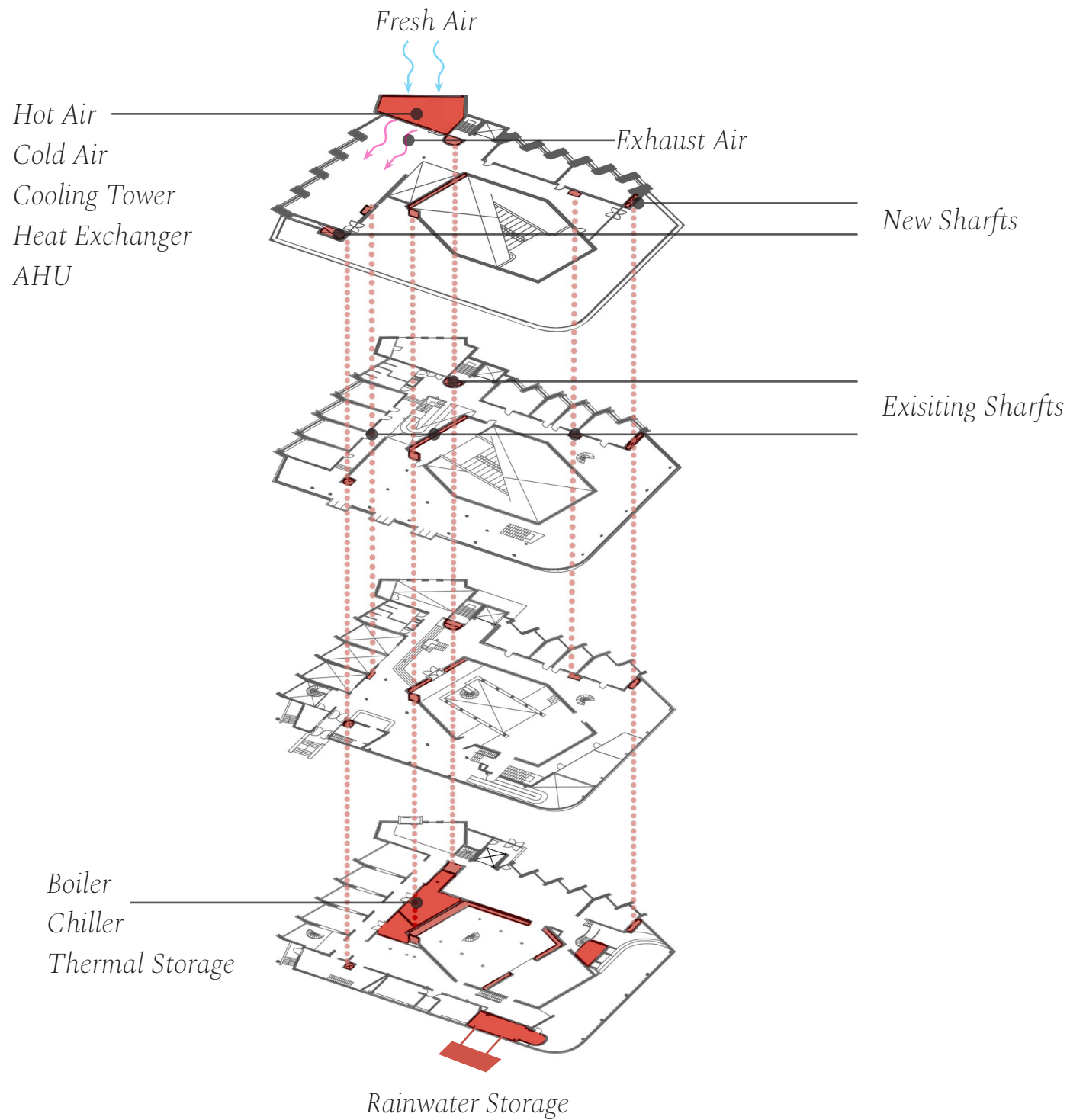


1. *Elevator machine*
2. *Air conditioning room*
3. *Air conditioning installation*
4. *Central heating control station*
5. *Central heating room*
6. *Boilers*
7. *Gas meter closet*
8. *Technical service room*

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***CLIMATE COMFORT***

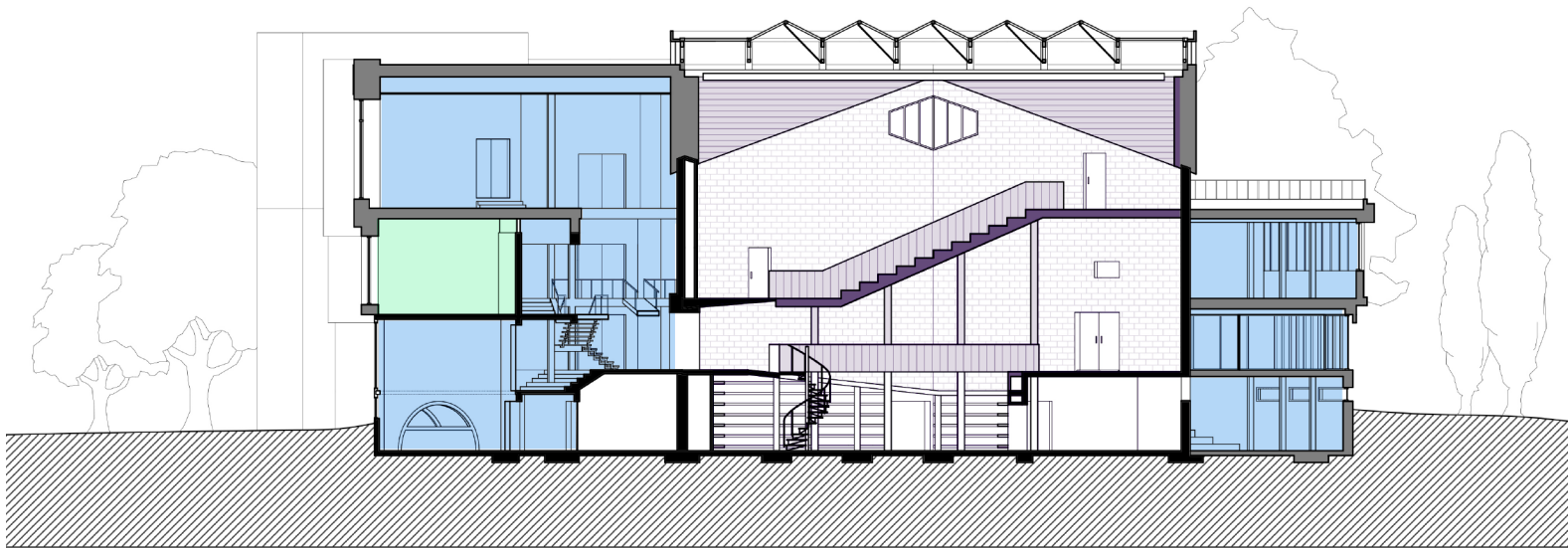
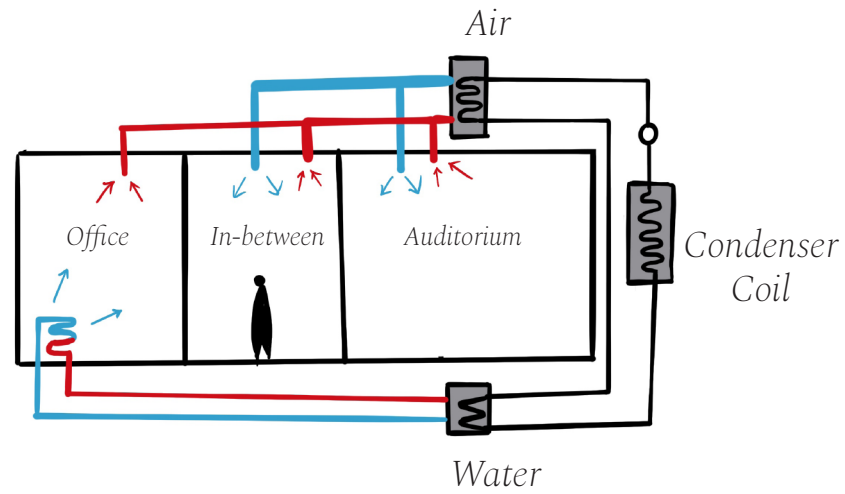
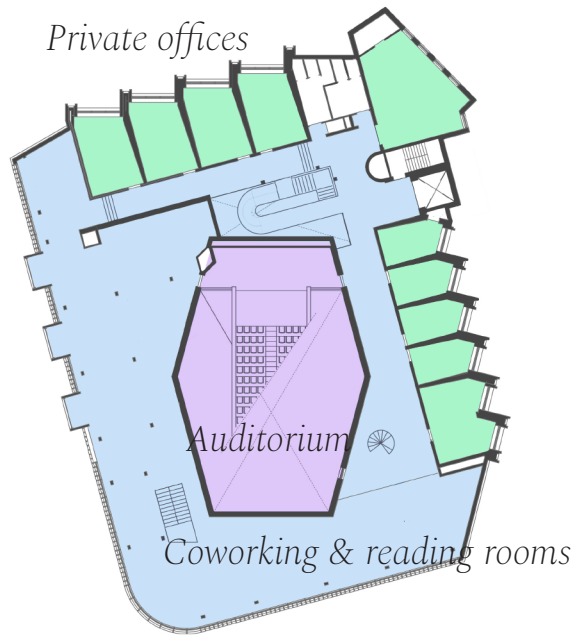
***EXISTING FACILITIES***



CLIMATE COMFORT

**MECHANICAL ROOMS  
& INSTALLATIONS**





CLIMATE ZONING

CLIMATE COMFORT

HVAC SYSTEM

COMBINATION OF  
AIR-WATER SYSTEM

- All-air System for  
Auditorium  
In-between Spaces

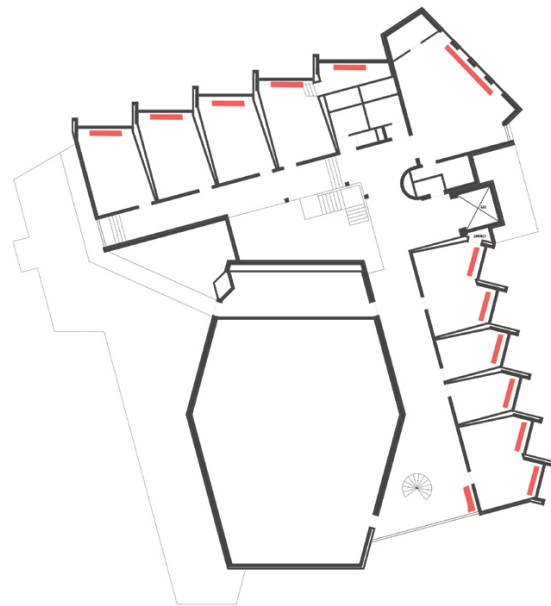
- Water Heating System for  
Private Offices



*EXISTING VENTILATION*



*CLIMATE COMFORT*

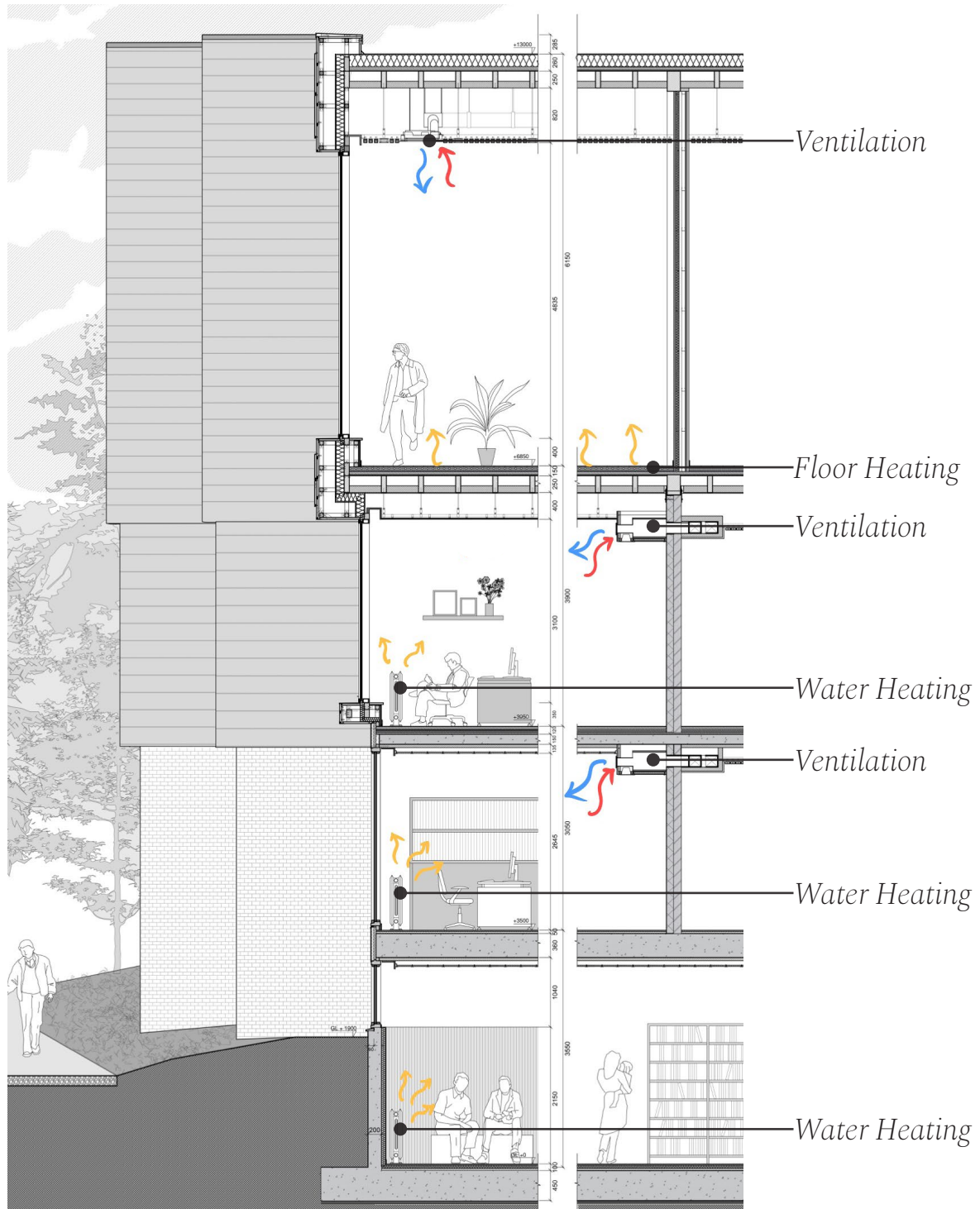


*EXISTING RADIATORS*



*HVAC SYSTEM  
- PRIVATE OFFICE*

*REUSE EXISTING SYSTEM*



Ventilation

Floor Heating

Ventilation

Water Heating

Ventilation

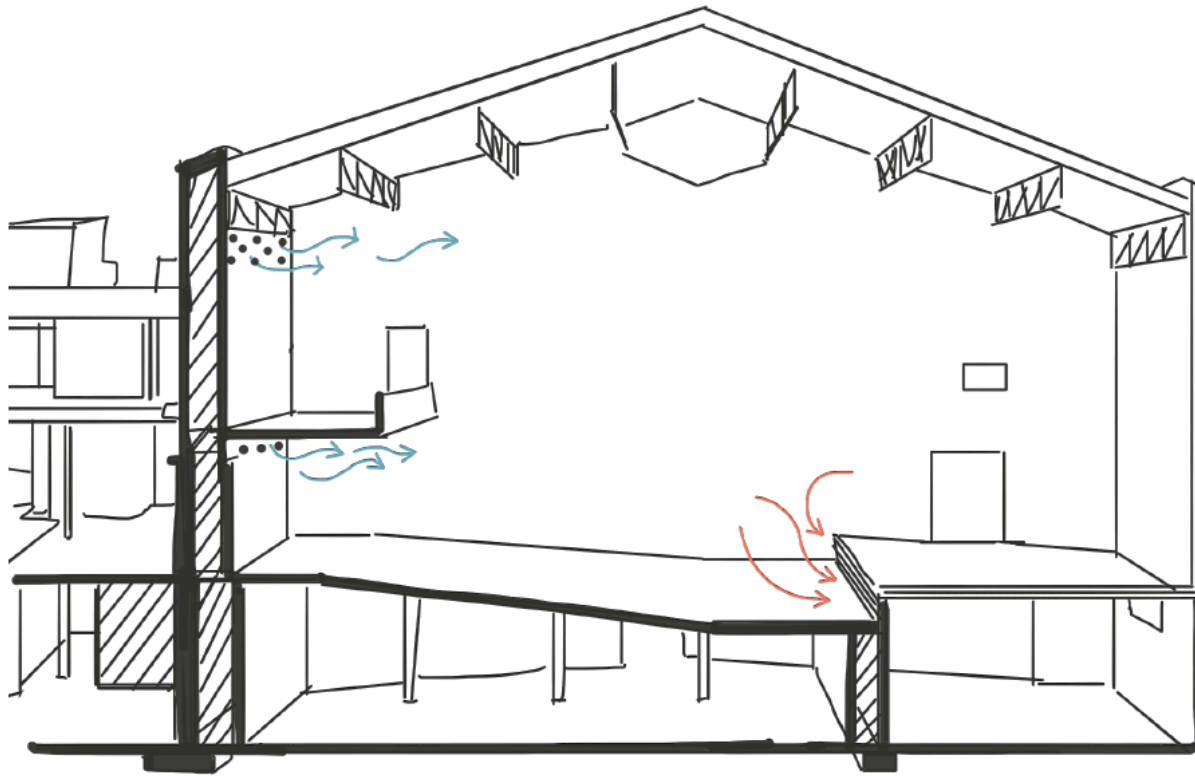
Water Heating

Water Heating

CLIMATE COMFORT

*HVAC SYSTEM  
- PRIVATE OFFICE*

*WATER HEATING SYSTEM  
& VENTILATION*

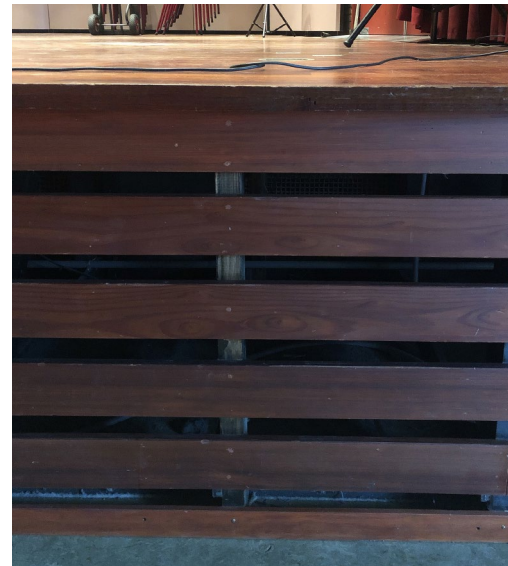


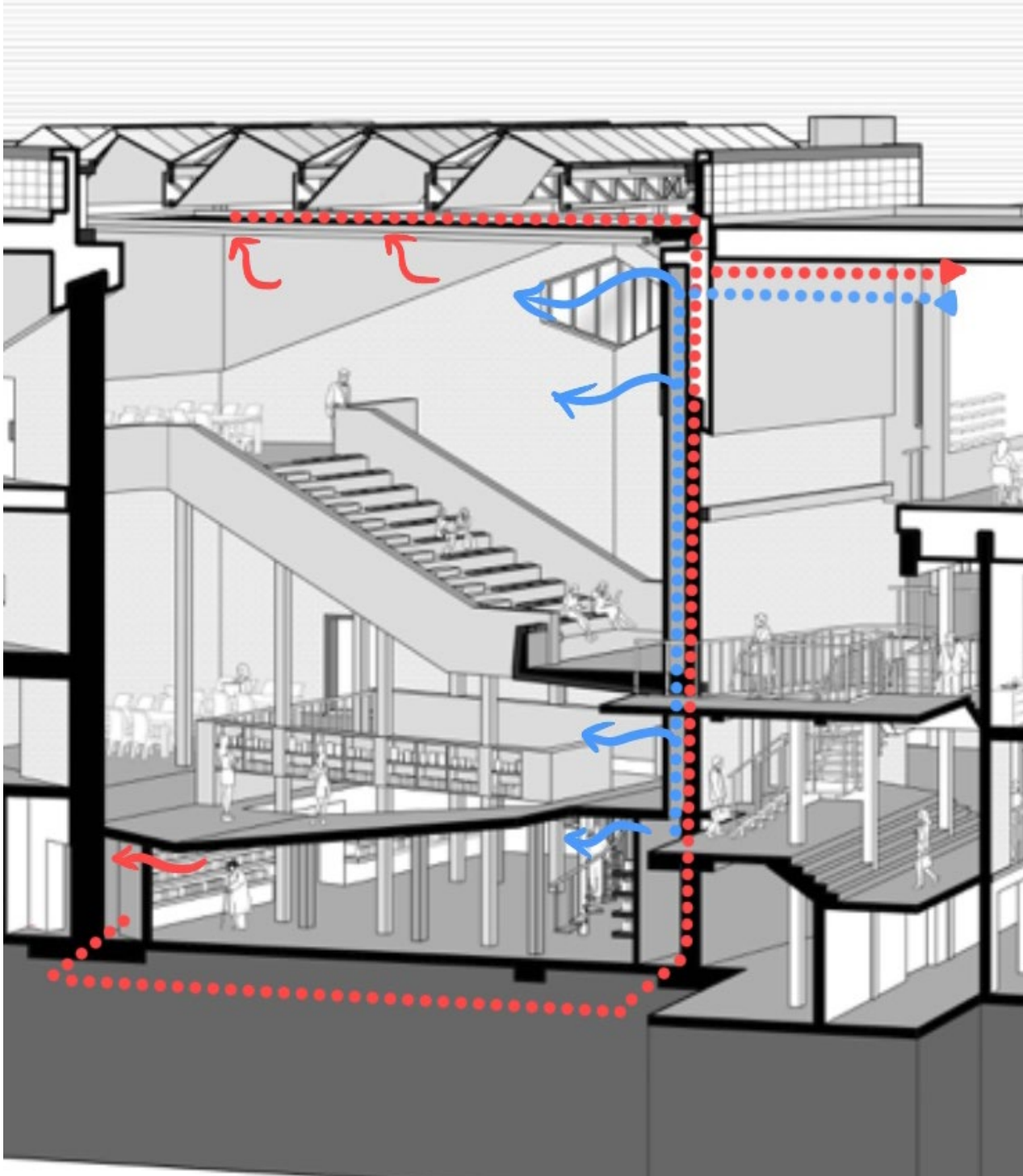
*CLIMATE COMFORT*

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*HVAC SYSTEM  
- AUDITORIUM*

*REUSE EXISTING SHAFTS*

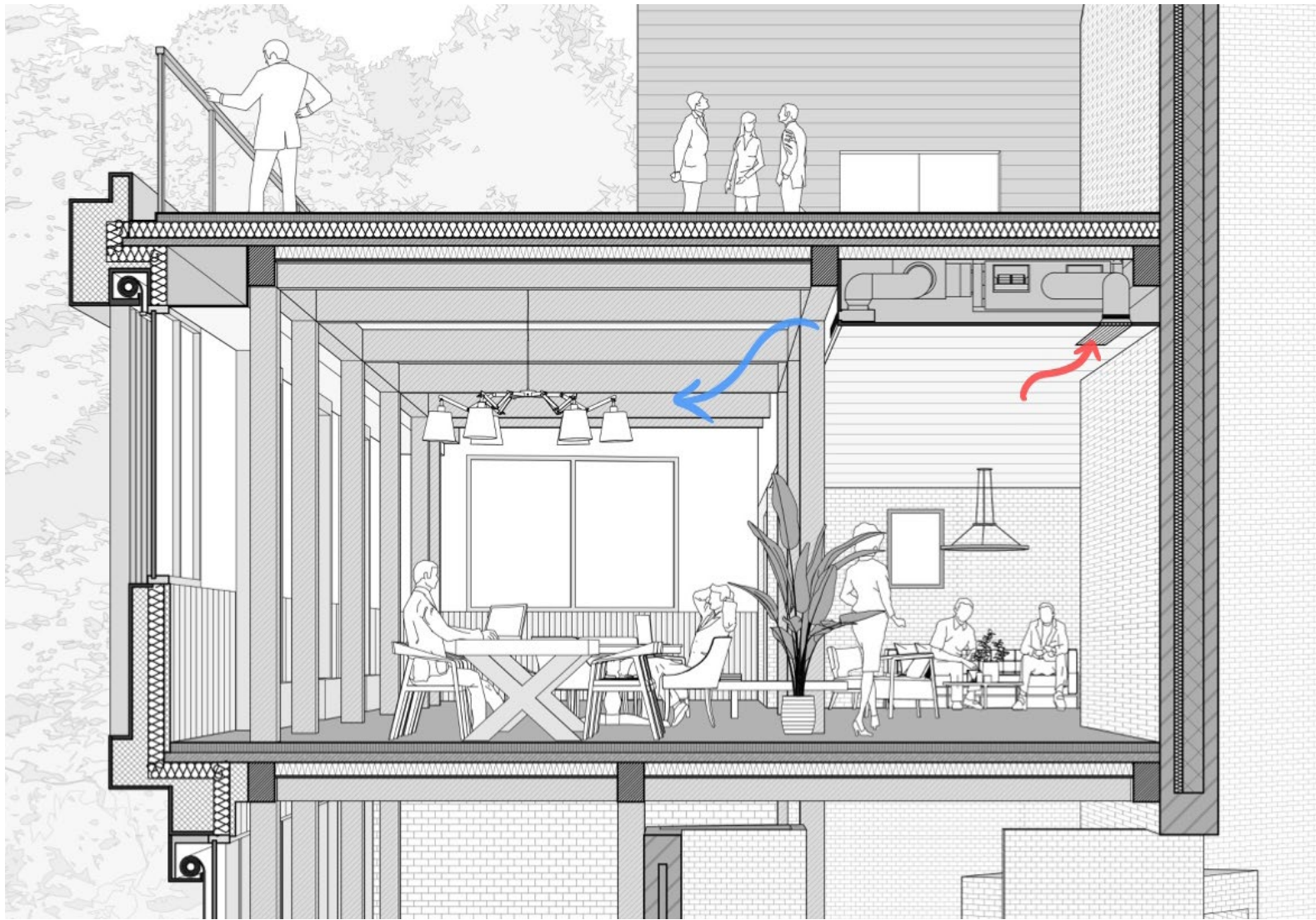




*CLIMATE COMFORT*

*HVAC SYSTEM  
- AUDITORIUM*

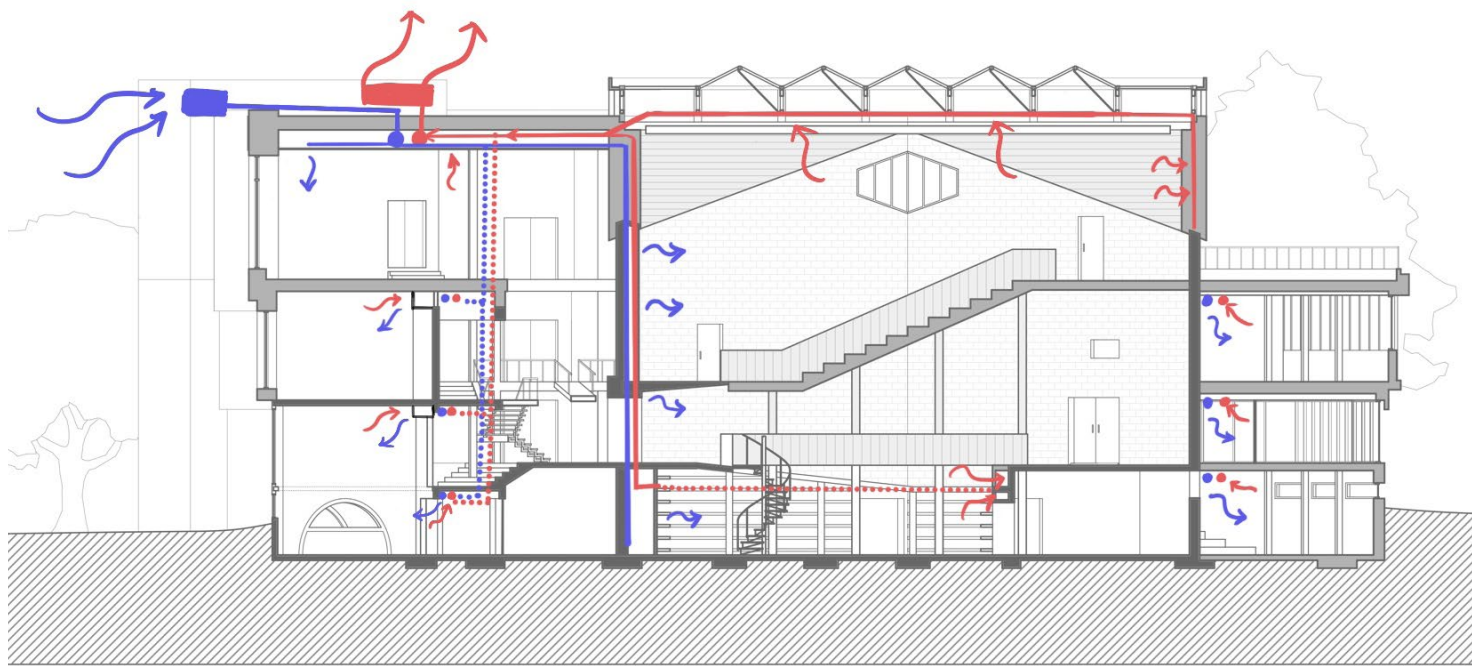
*ALL-AIR SYSTEM*



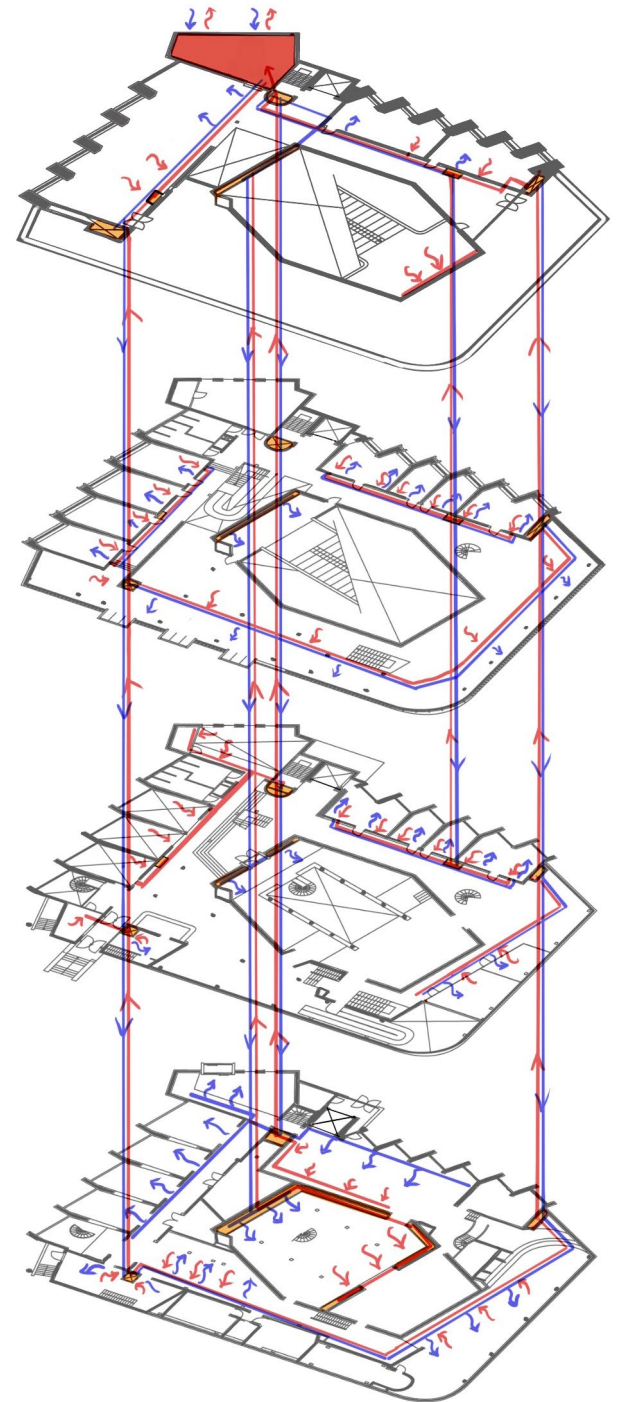
*CLIMATE COMFORT*

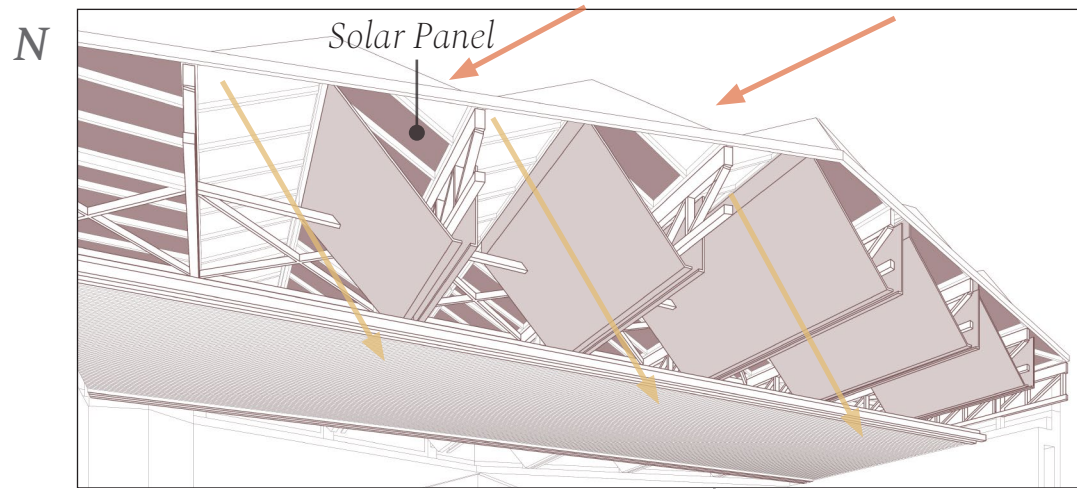
*HVAC SYSTEM  
- IN-BETWEEN SPACE*

*ALL-AIR SYSTEM*



OVERALL VENTILATION

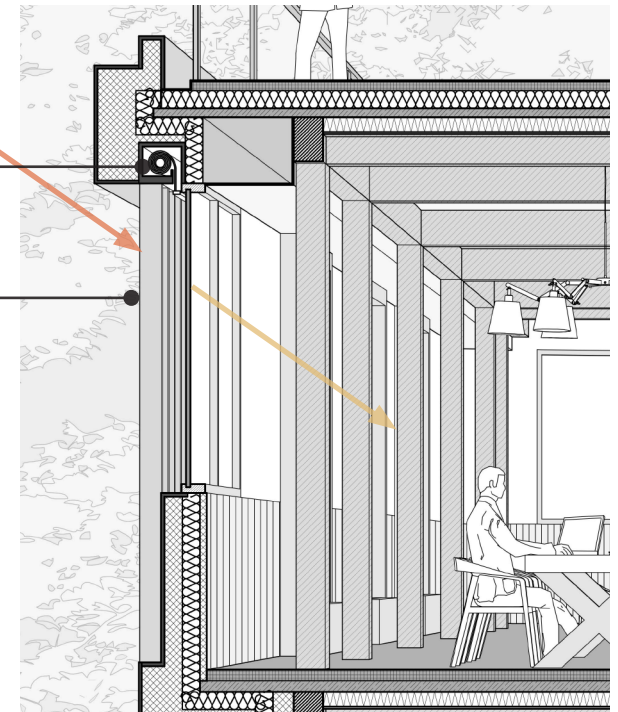




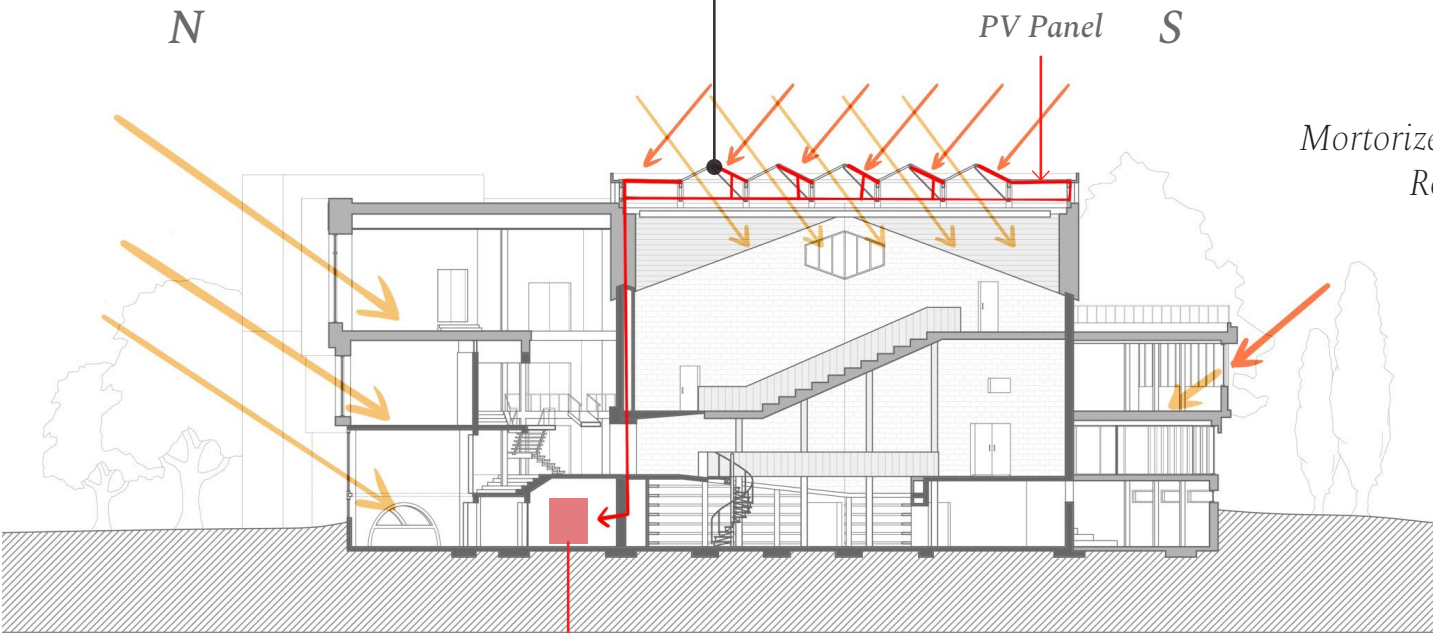
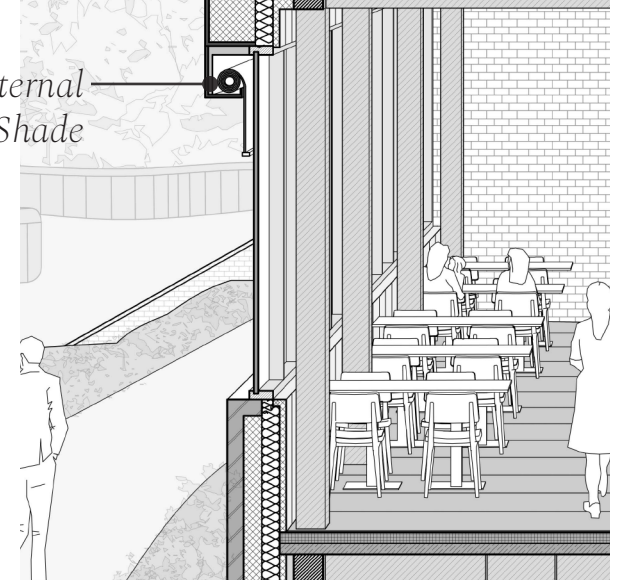
S

Mortorized External Roller Shade

Vertical Louver



Mortorized External Roller Shade

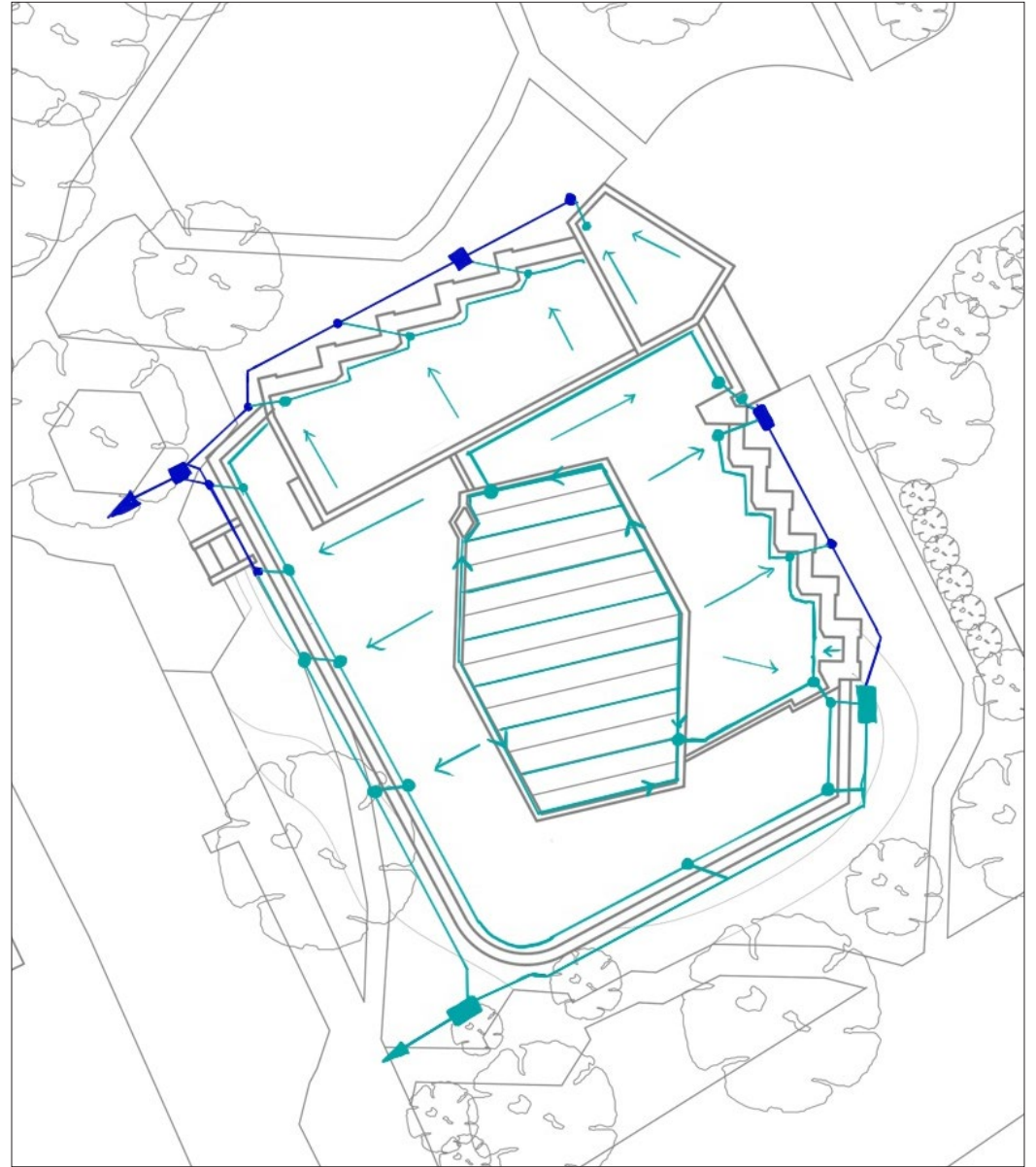
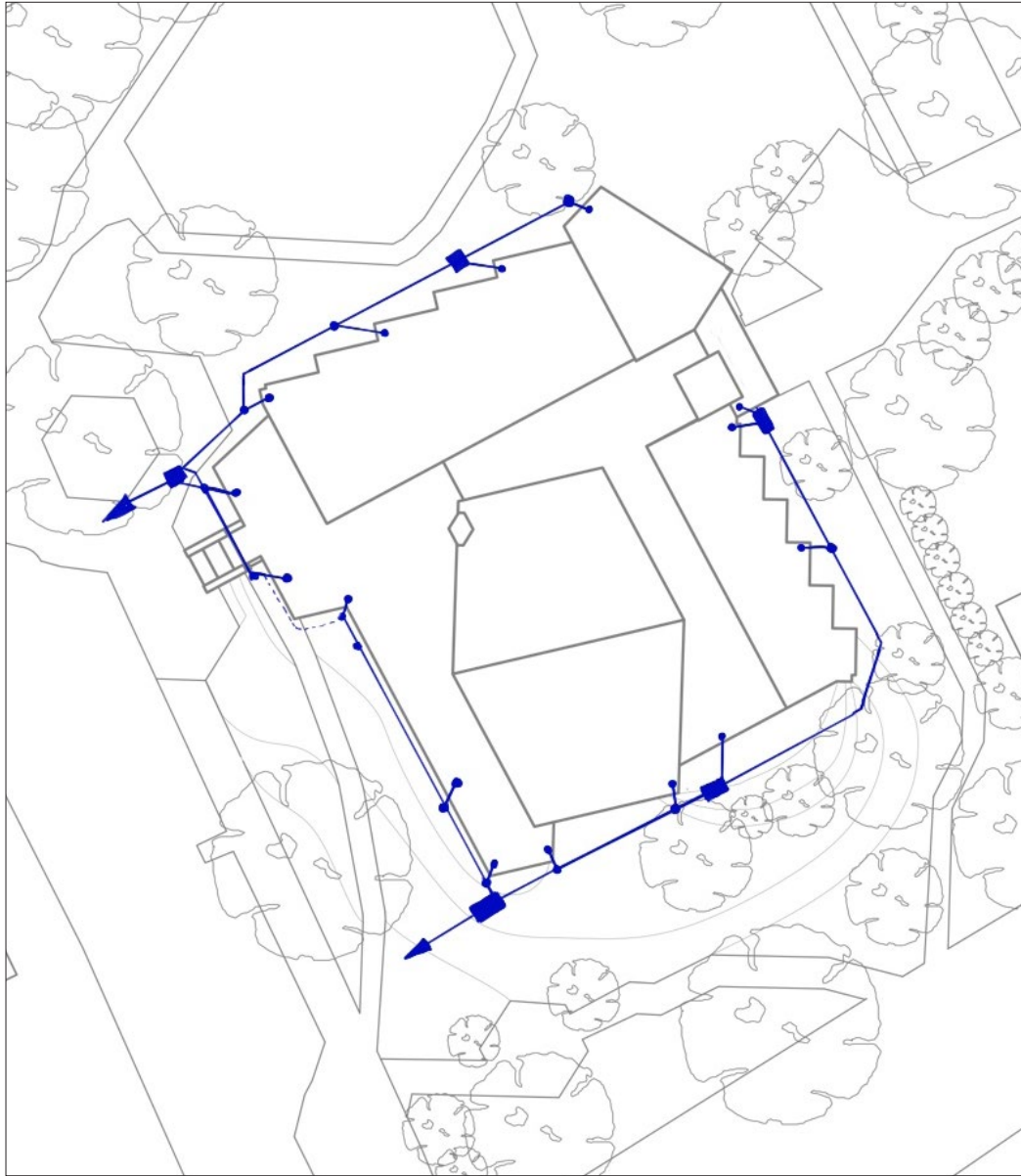


- Solar Heat
- Direct Daylight
- Indirect Daylight

Thermal Storage

**DAYLIGHT & SOLAR HEAT**

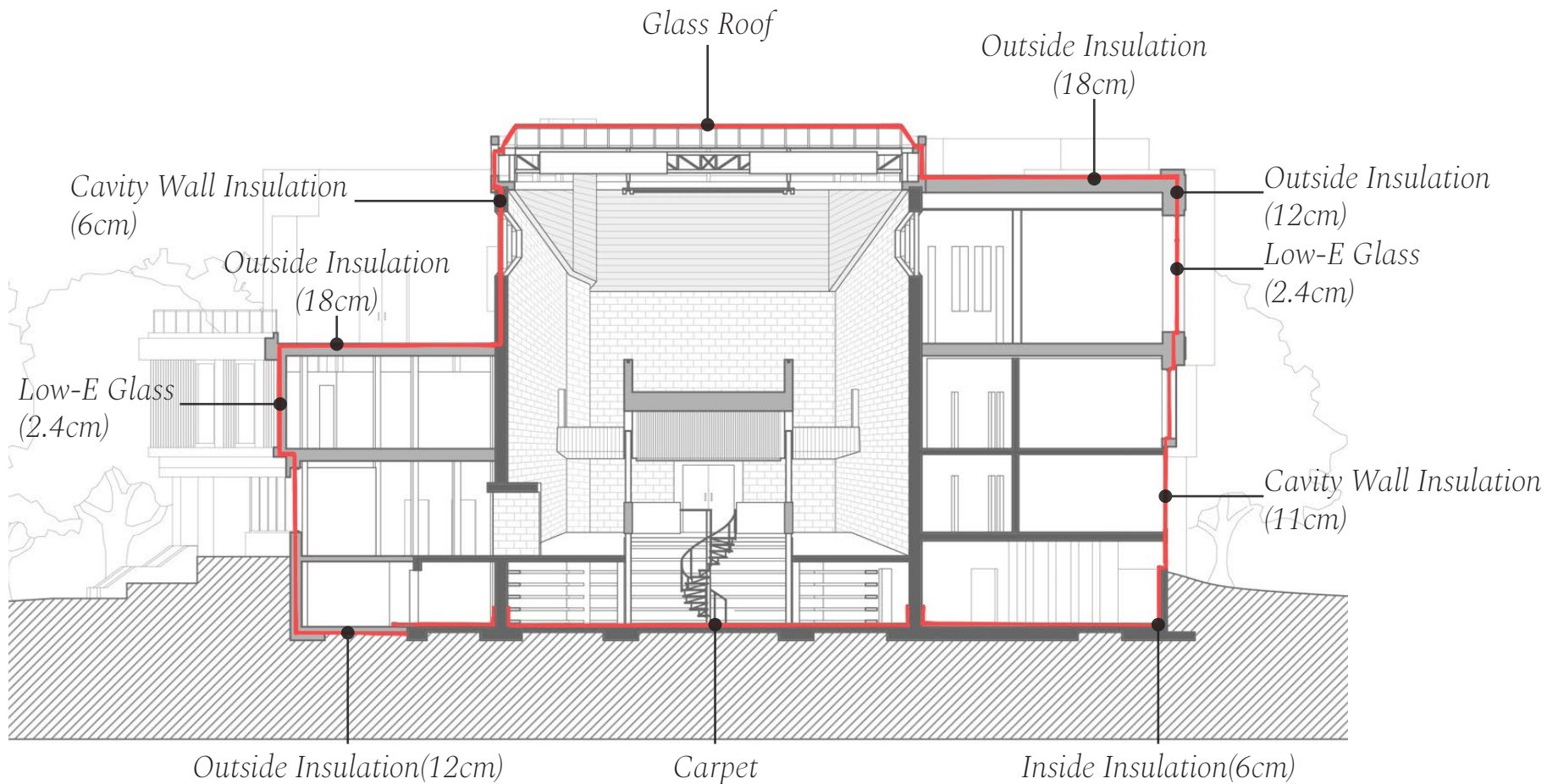




Existing Line  
New Line

*DRAINAGE SYSTEM*

Existing Line  
New Line



**THERMAL INSULATION**