



Stockholm City Library Archive. n.d. Asplund Drawing. <https://brightspace.tudelft.nl/d2l/le/content/594289/Home>.

Extending the Stockholm Public Library

Mikolaj Waszkiewicz

Arch IBC 5861373

Introduction



Stockholm City Library Archive. n.d. Newspaper. <https://brightspace.tudelft.nl/d21/le/content/594289/Home>.

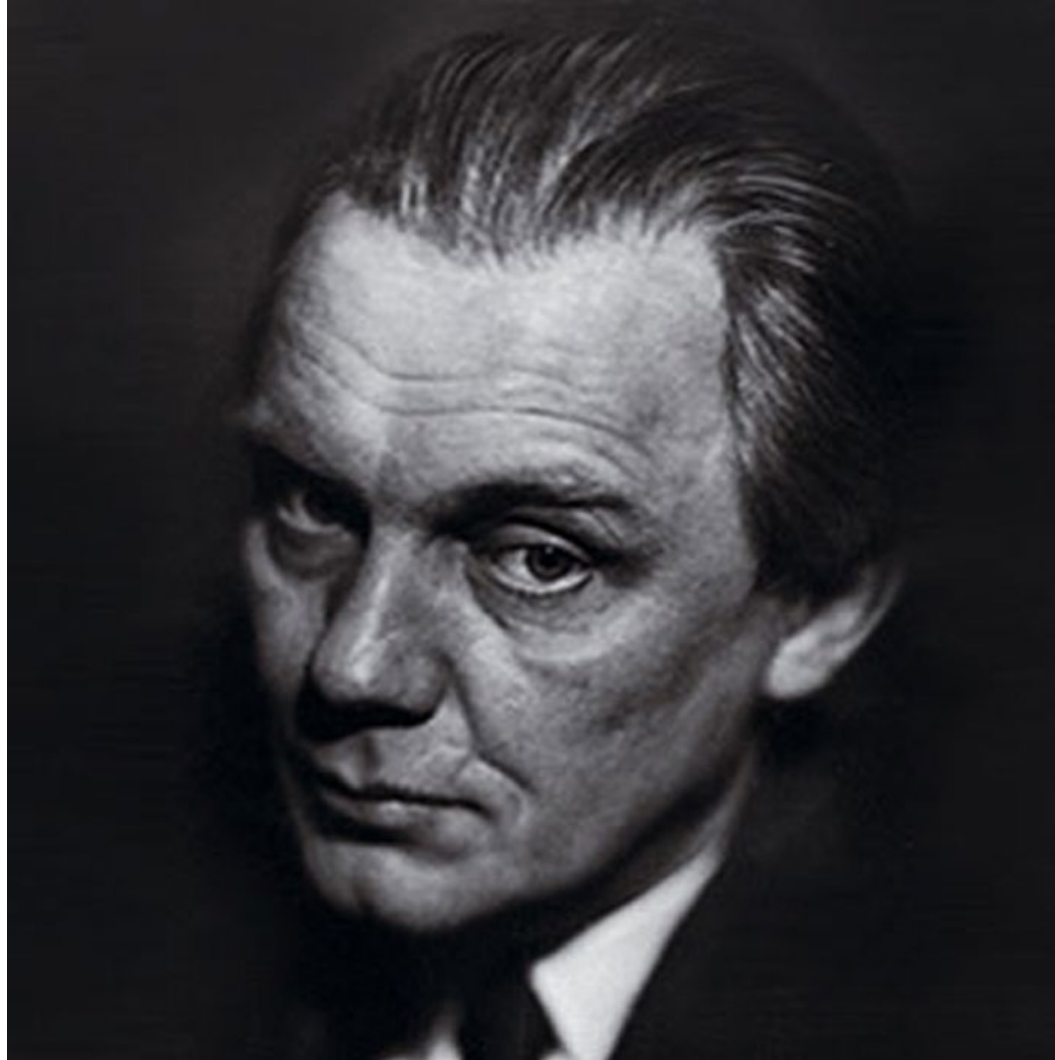
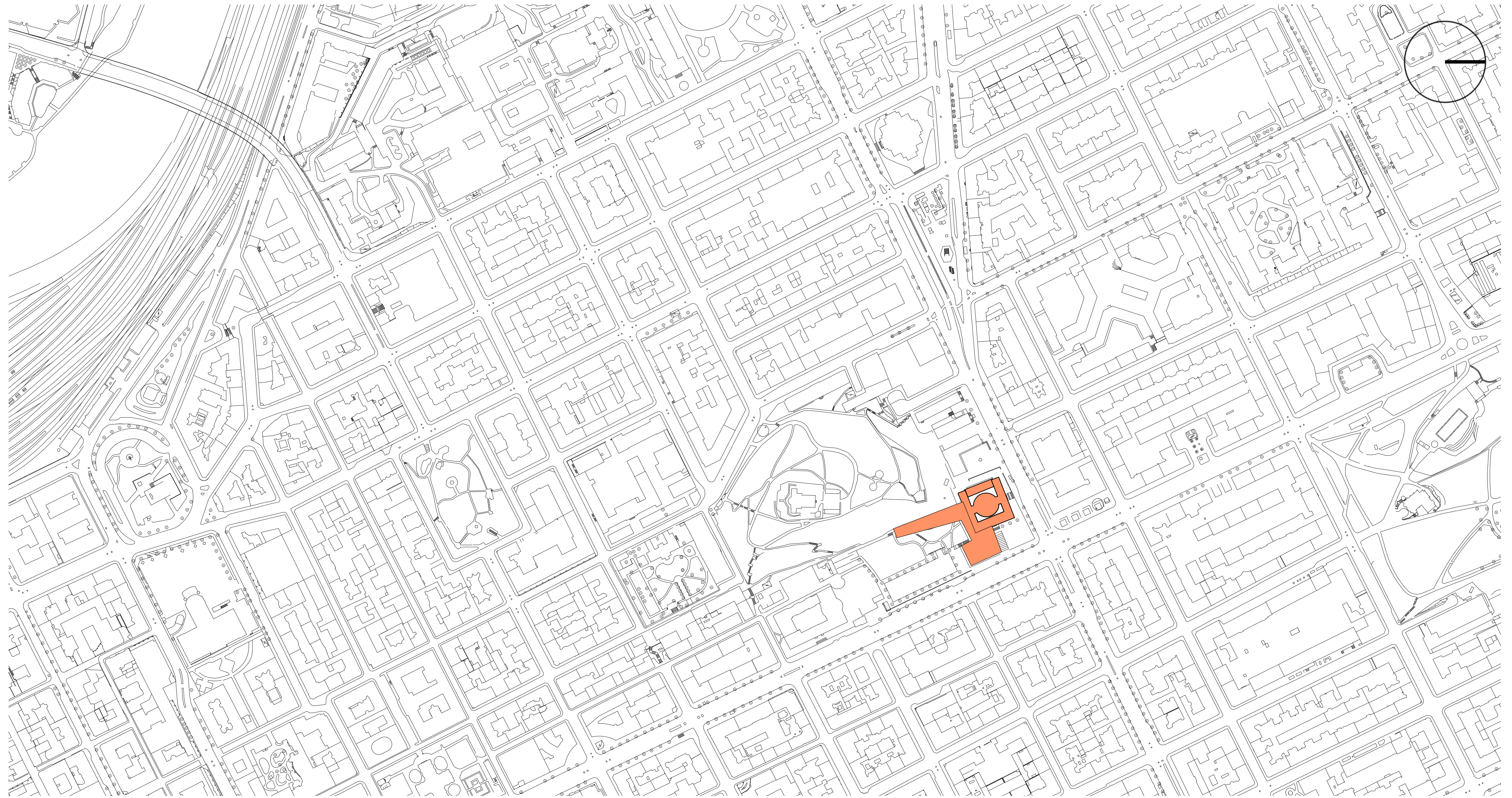
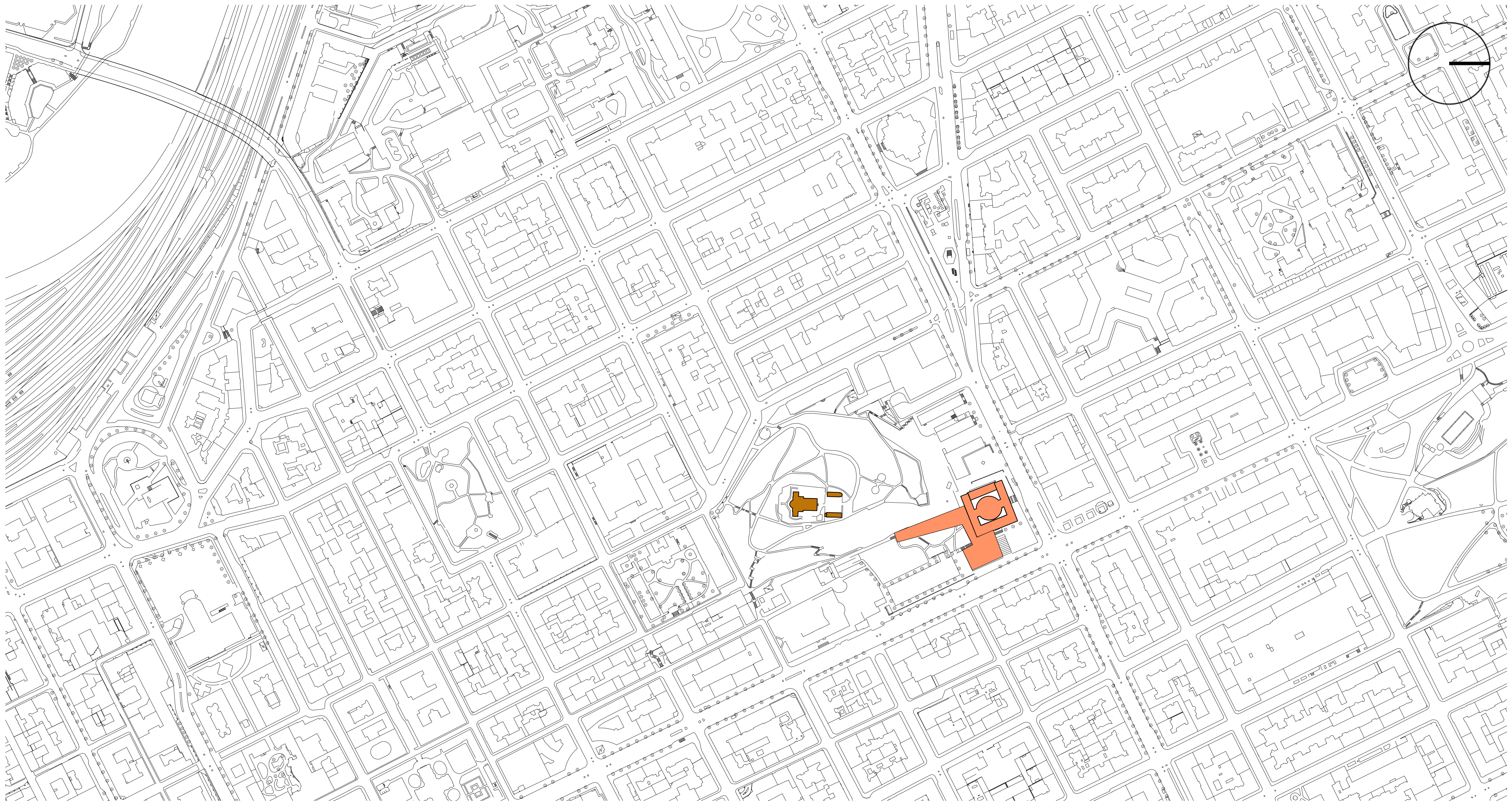
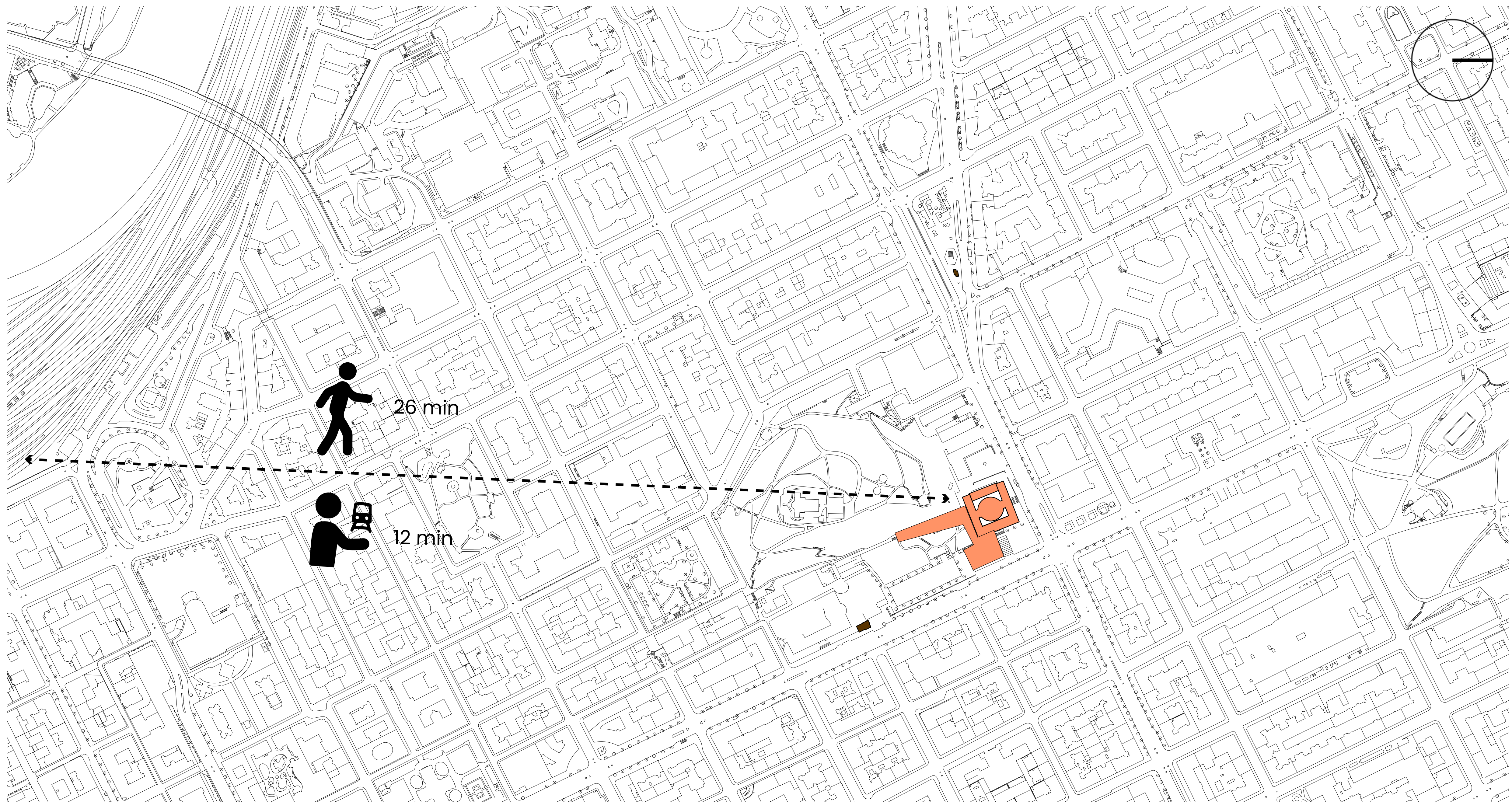


Fig. 3 'Gunnar Asplund'. 2023. In Wikipedia. https://en.wikipedia.org/w/index.php?title=Gunnar_Asplund&oldid=1190001647.



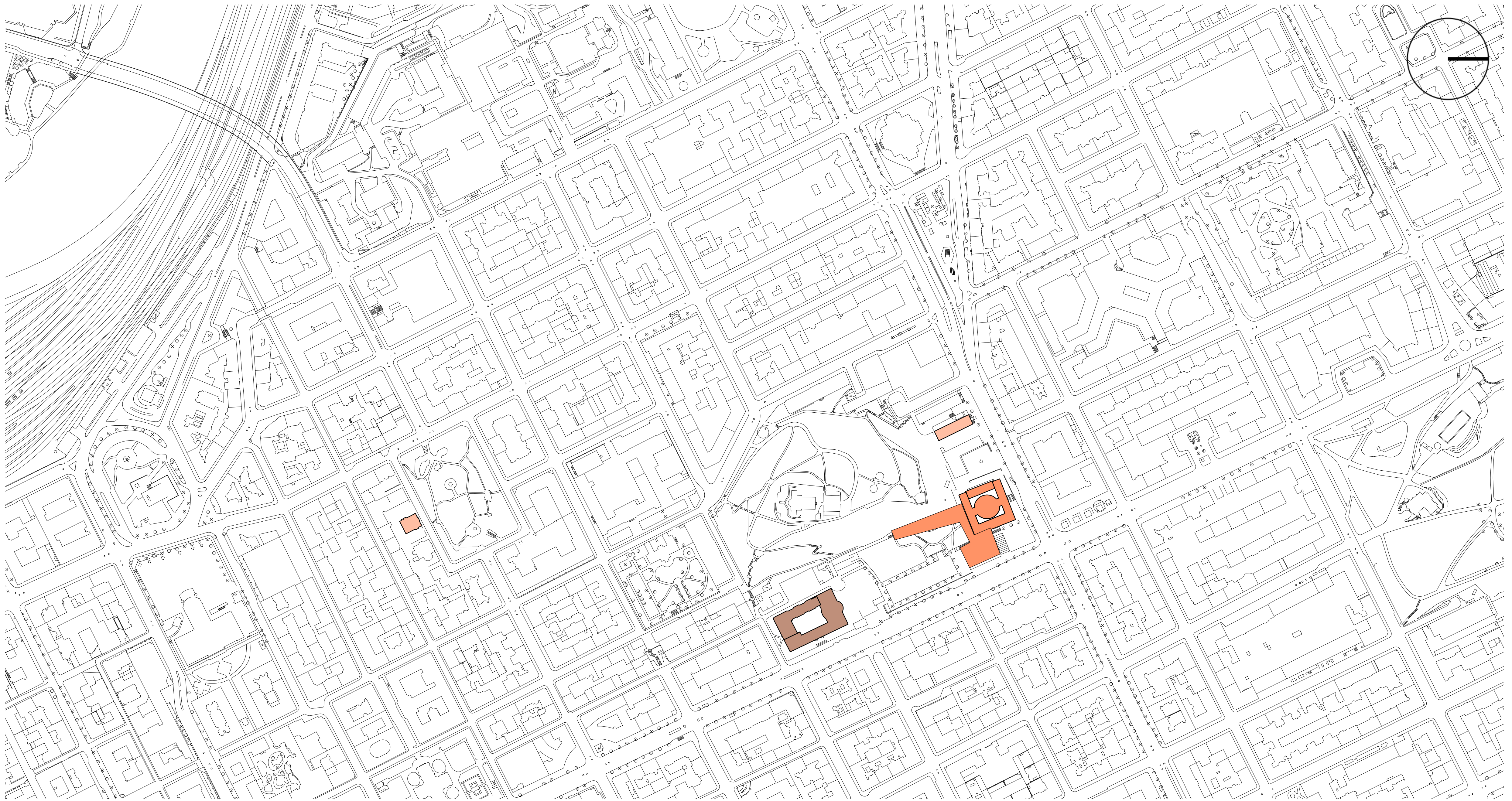


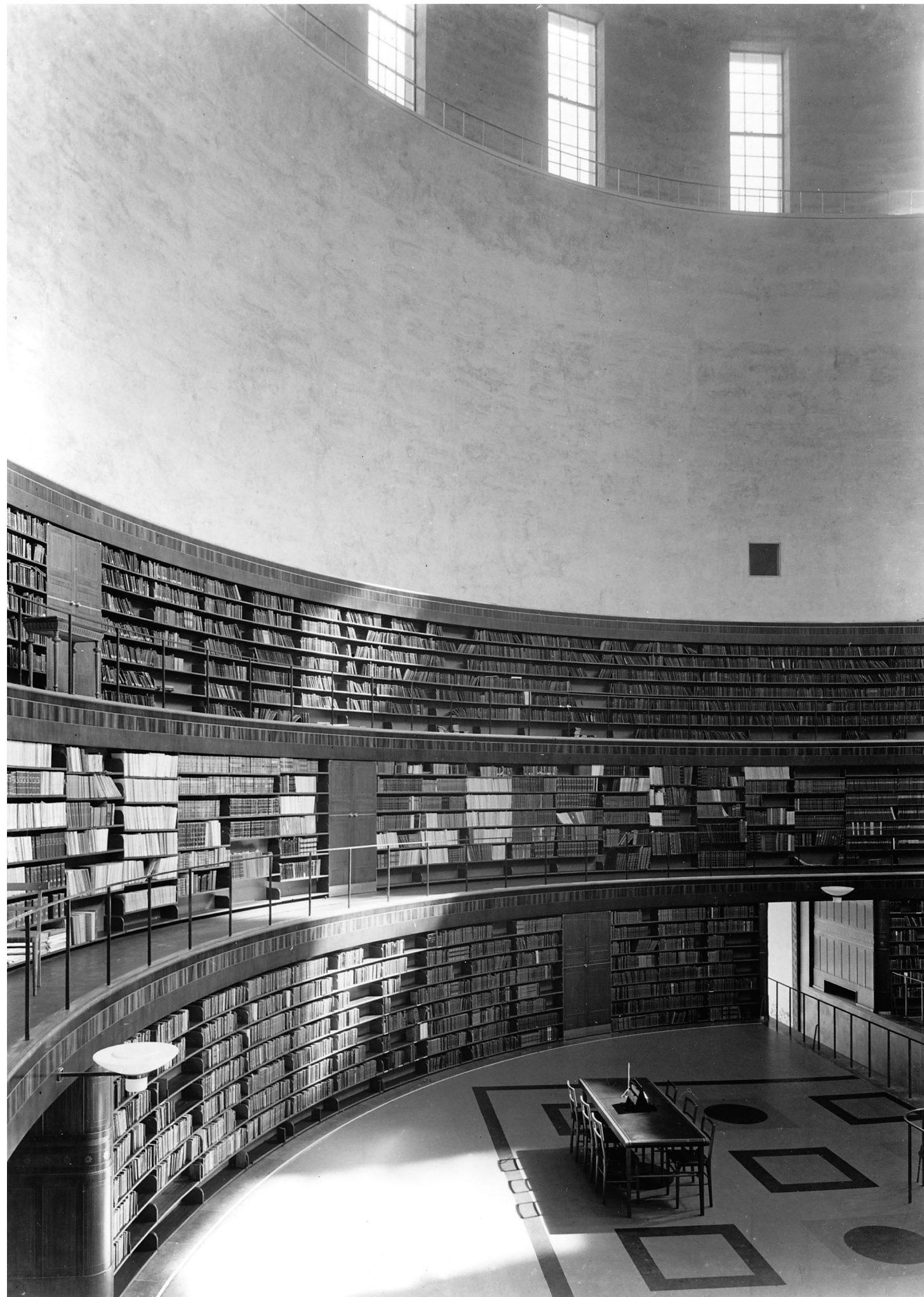




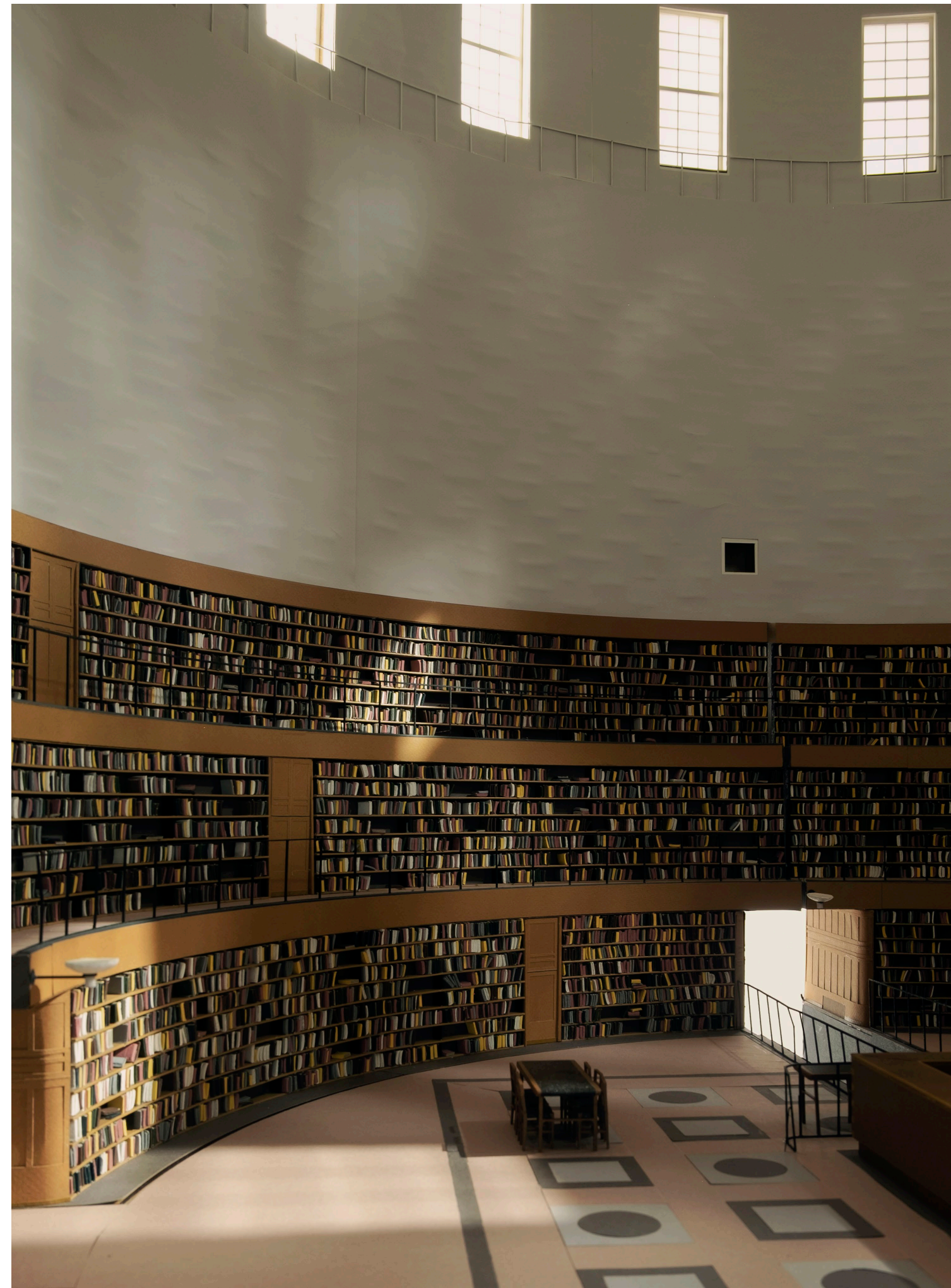
26 min

12 min

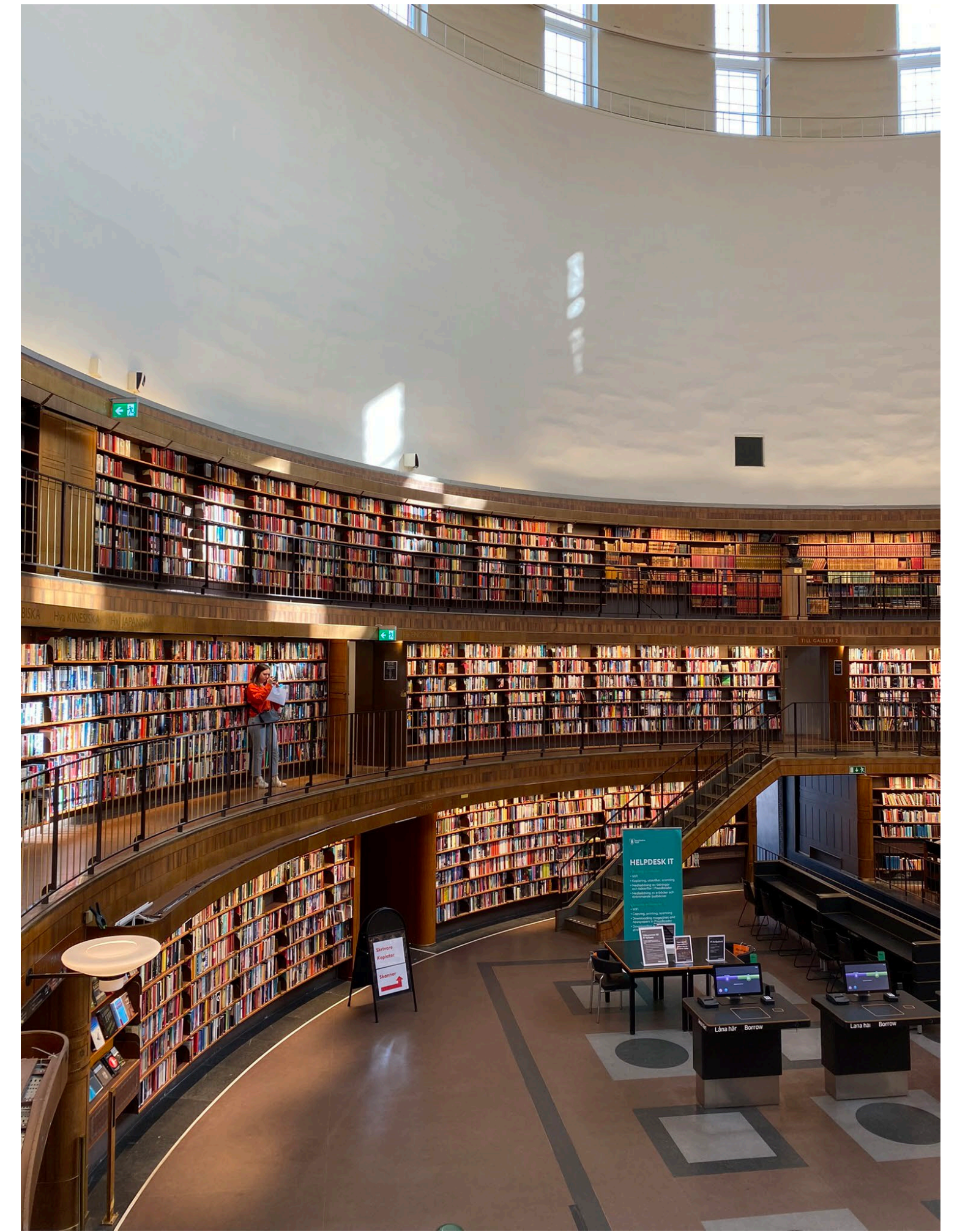




Stockholm City Library Archive. n.d. Main hall. <https://brightspace.tudelft.nl/d21/le/content/594289/Home>.



by IBC Studio Palace



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Stockholm City Library Archive. n.d. Story telling. <https://brightspace.tudelft.nl/d2l/le/content/594289/Home>.



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Stockholm City Library Archive. n.d. Newspaper. <https://brightspace.tudelft.nl/d2l/le/content/594289/Home>.



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Stockholm City Library Archive. n.d. Newspaper. <https://brightspace.tudelft.nl/d2l/le/content/594289/Home>.

Position



Stockholm City Library Archive. n.d. Rotunda. <https://brightspace.tudelft.nl/d21/le/content/594289/Home>.



Stockholm City Library Archive. n.d. Children library. <https://brightspace.tudelft.nl/d21/le/content/594289/Home>.



Available at: https://ec.europa.eu/epale/sites/epale/files/sweden_immigrants_resized.jpg



[Home](#) > [Blog](#) > [Inspiration for the Nation 2016](#) > Librarians reduce the impact of poverty and inequality

Librarians reduce the impact of poverty and inequality

Category: [Inspiration for the Nation 2016](#)

Guest Blog by Kay Sillars, Unison Scotland, as part of the '[Scotland's Libraries: Inspiration for the Nation](#)' Campaign.

School Libraries are under serious threat authorities are cutting posts and reducing



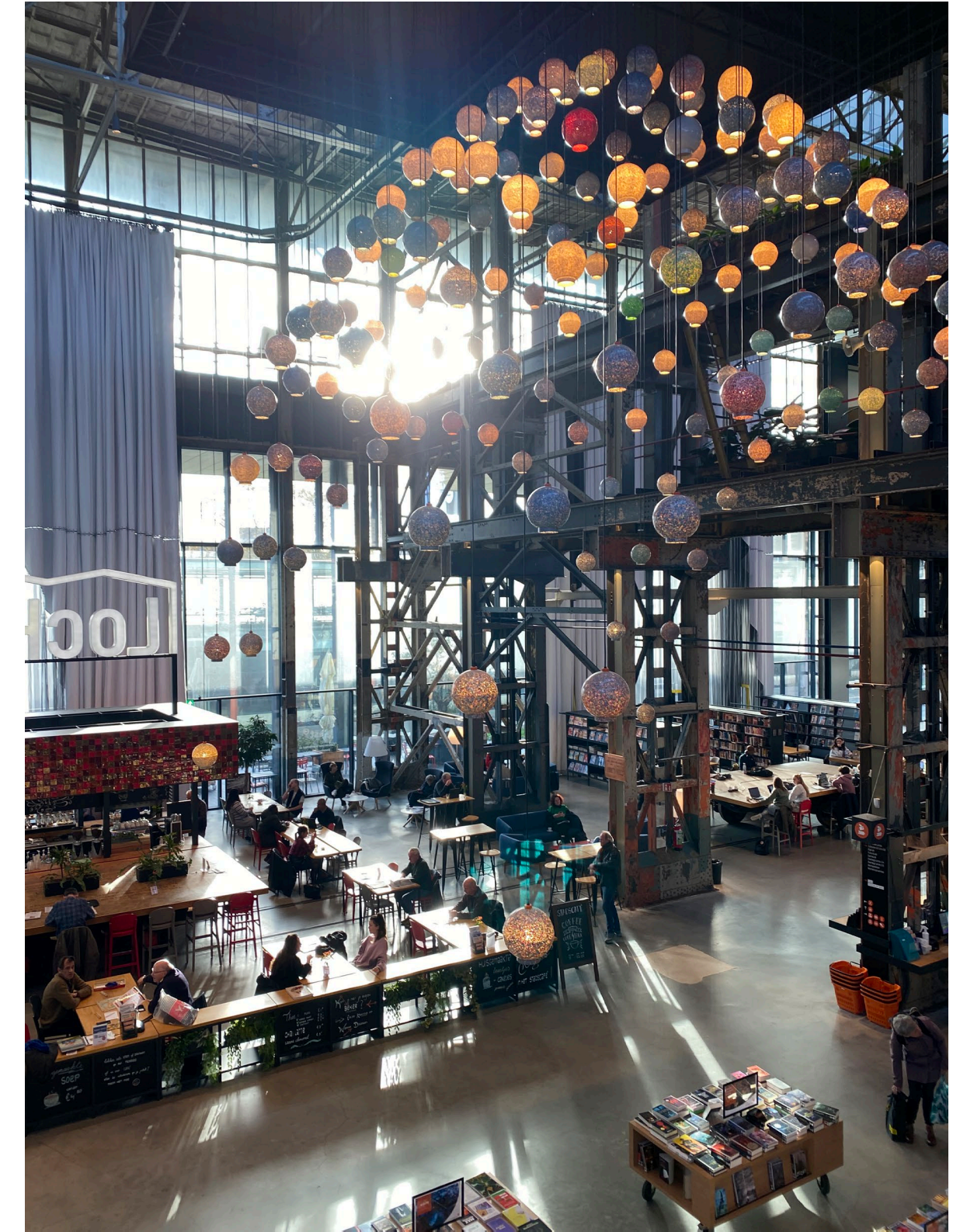
Arteka
Krakow
Poland



Krakow City Library
Krakow
Poland



Het Predikheren
Mechelen
Belgium



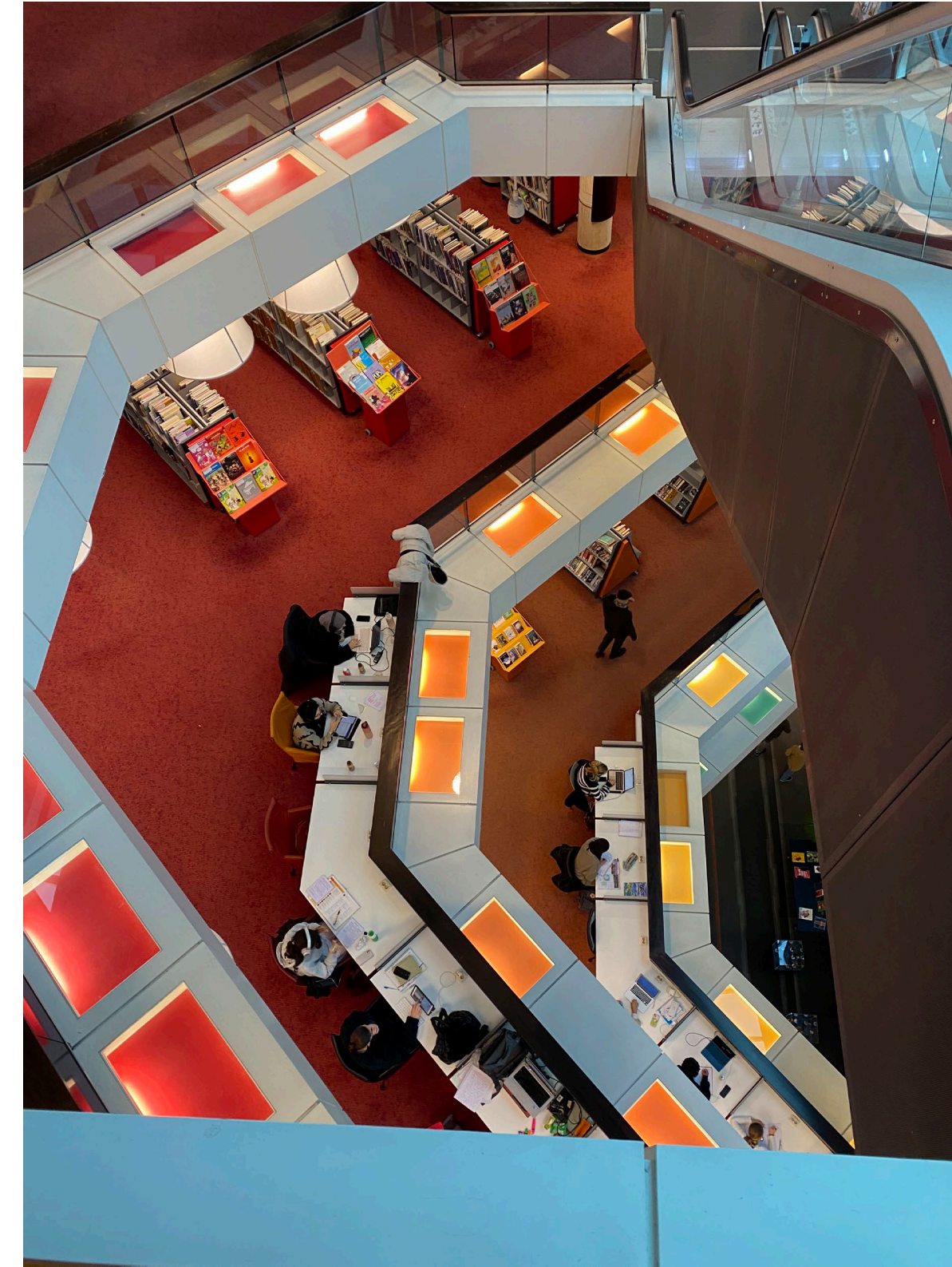
LoHal
Tilburg
Netherlands



DOK Center
Delft
Netherlands



TU Delft Library
Delft
Netherlands



Centrale Bibliotheek
Rotterdam
Netherlands



BK Library
Delft
Netherlands



[https://en.wikipedia.org/wiki/Saint_Jerome_in_His_Study_\(Antonello_da_Messina\)#/media/File:Antonello_da_Messina_-_St_Jerome_in_his_study_-_National_Gallery_London.jpg](https://en.wikipedia.org/wiki/Saint_Jerome_in_His_Study_(Antonello_da_Messina)#/media/File:Antonello_da_Messina_-_St_Jerome_in_his_study_-_National_Gallery_London.jpg)



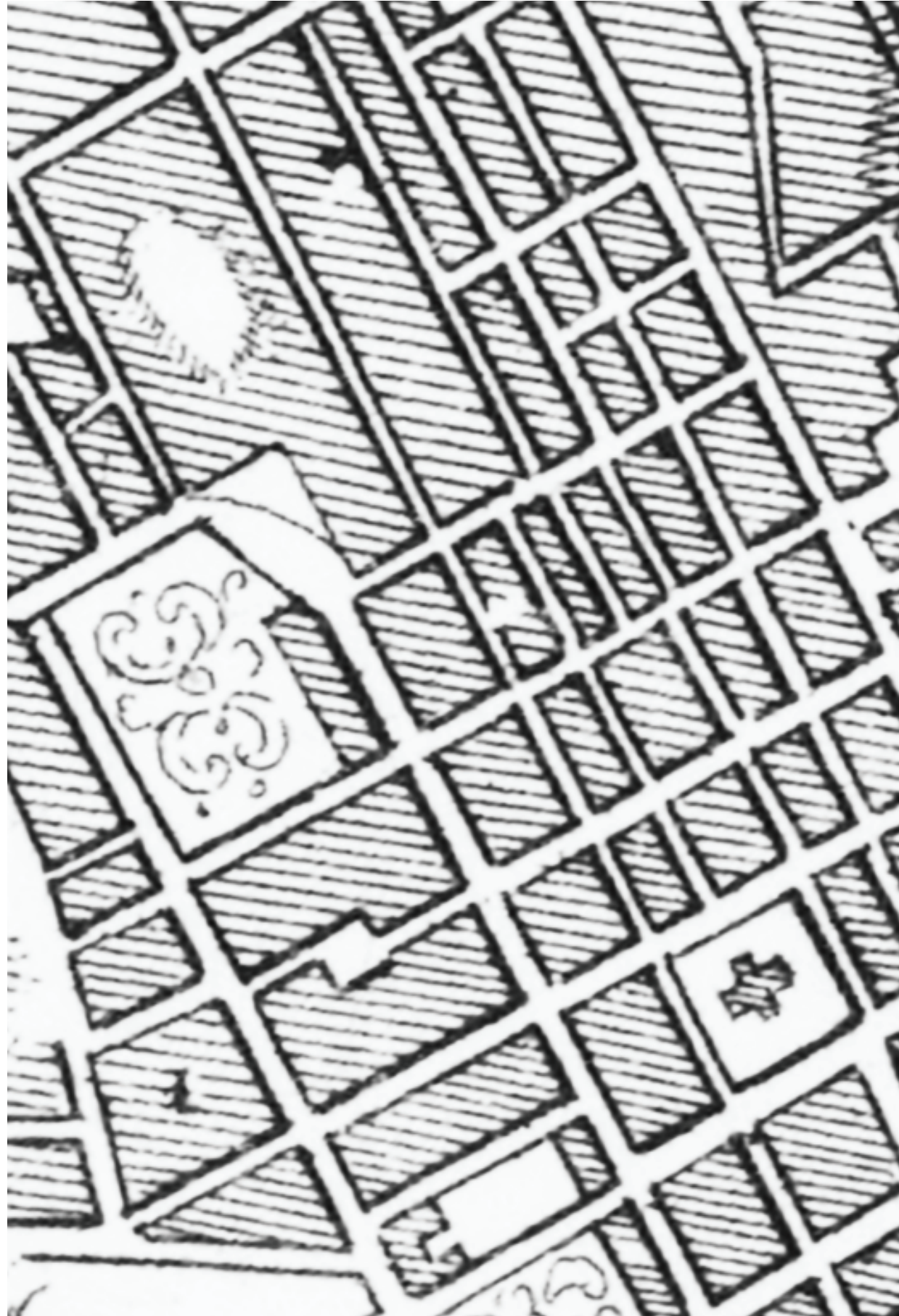


Epok möter epok på Observatorielunden. De gamla fastigheterna utmed Saltmätargatan stod 1928 fortfarande kvar i närheten av det moderna stadsbiblioteket.

'Sveavägen / Rådmansgatan'. n.d. Accessed 5 December 2023. <https://www.bjornpatrick.com/BP2/Sveavaegen/Sveavaegen.html>.



'Sveavägen / Rådmansgatan'. n.d. Accessed 5 December 2023. <https://www.bjornpatrick.com/BP2/Sveavaegen/Sveavaegen.html>.



1764



1844



1850



2023

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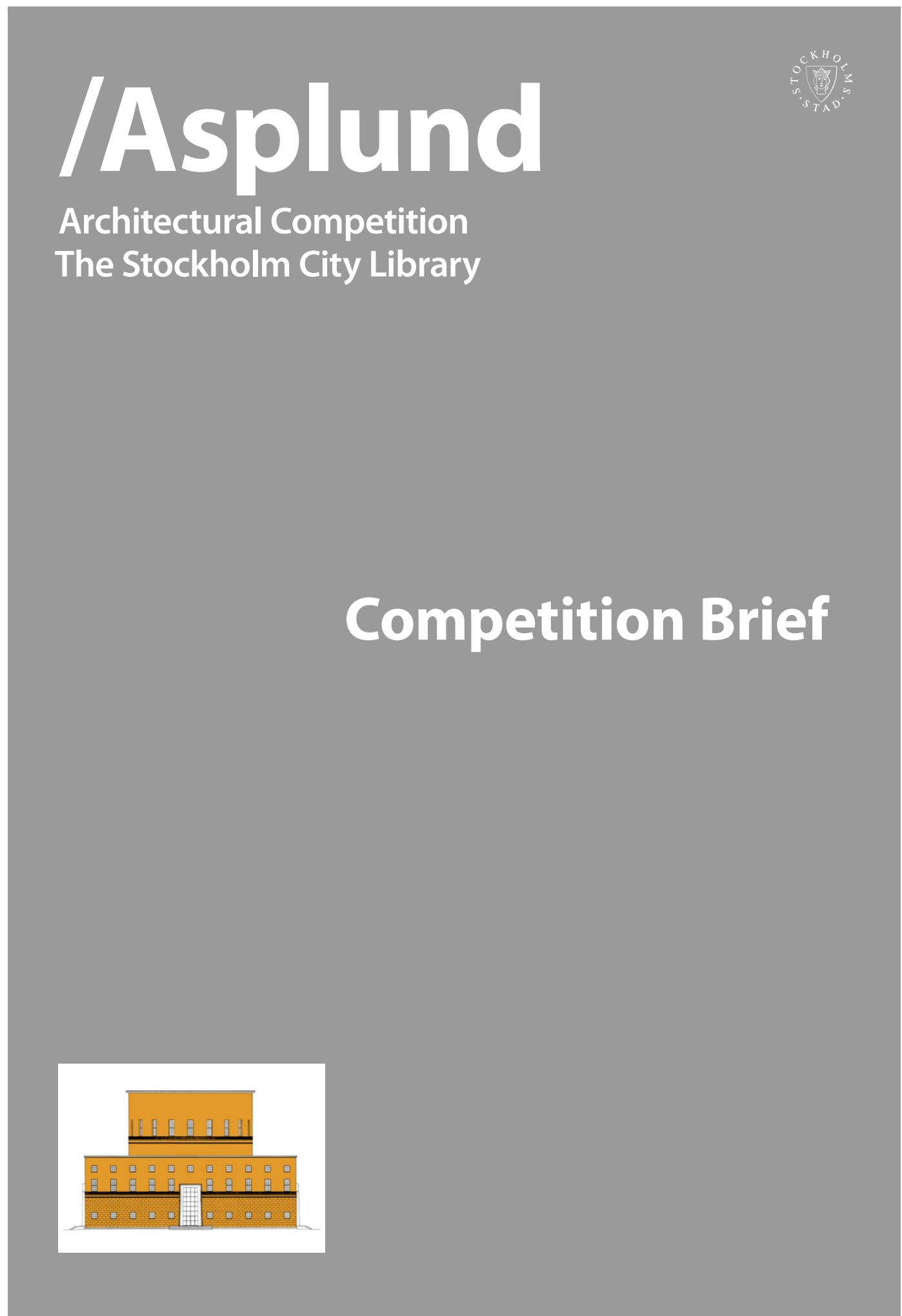
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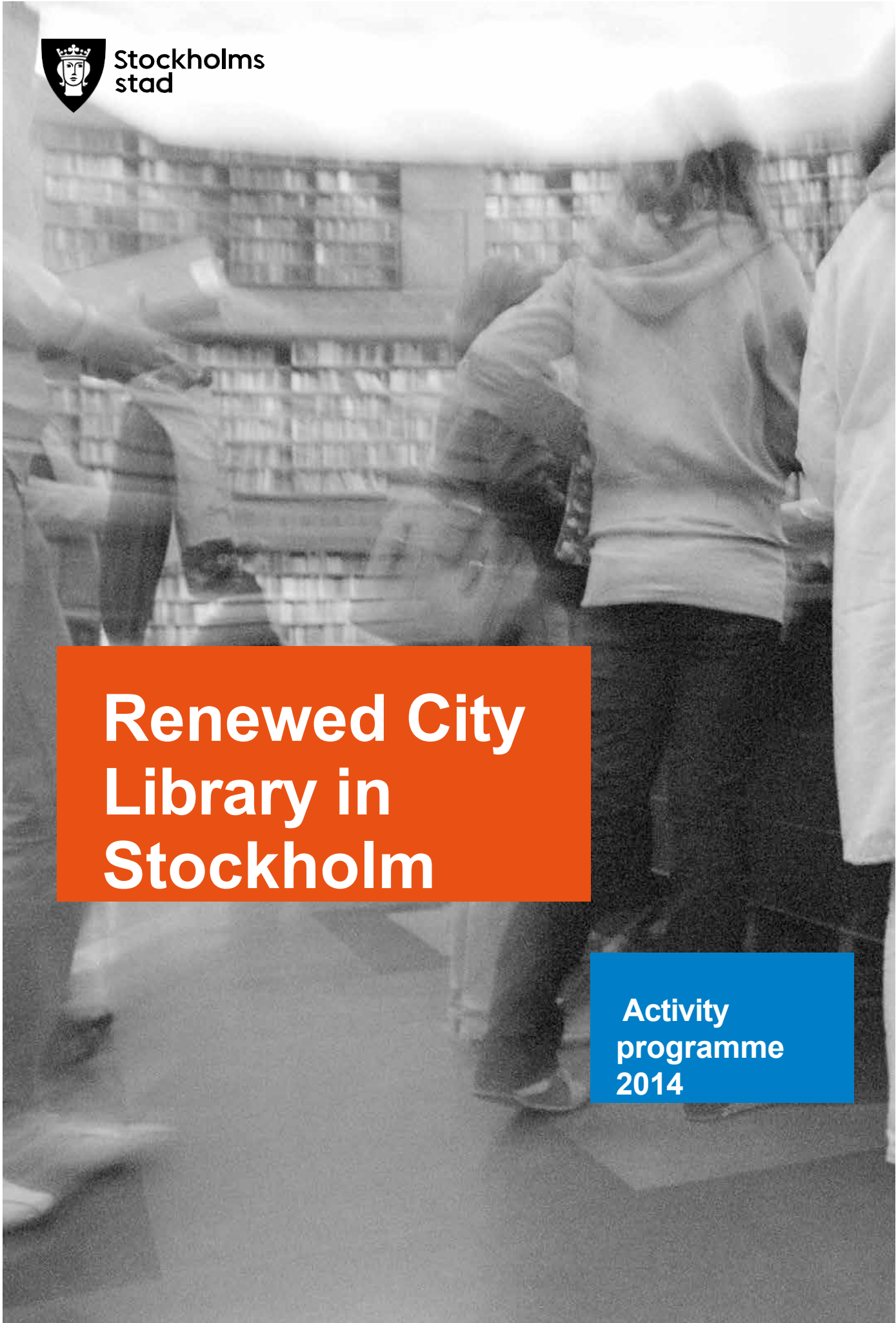
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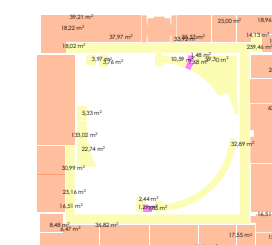
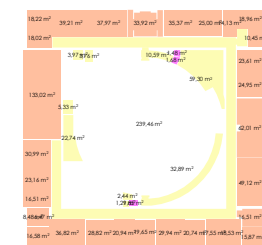
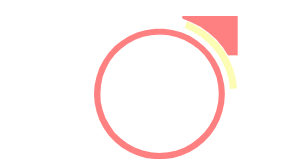
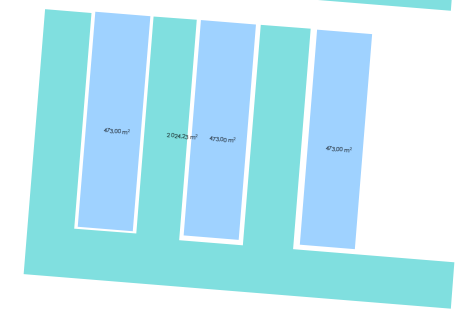
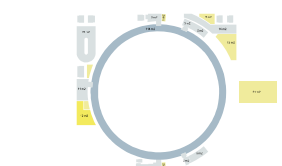
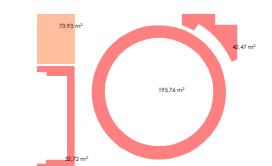
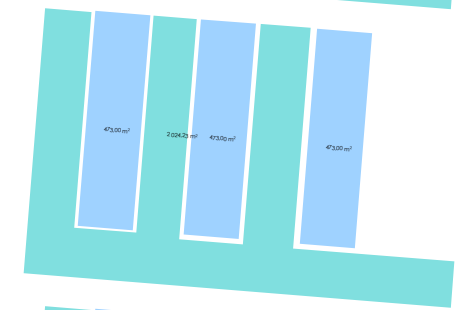
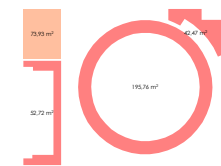
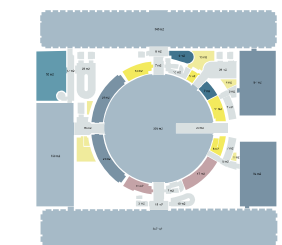
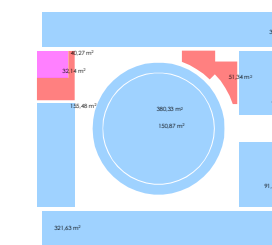
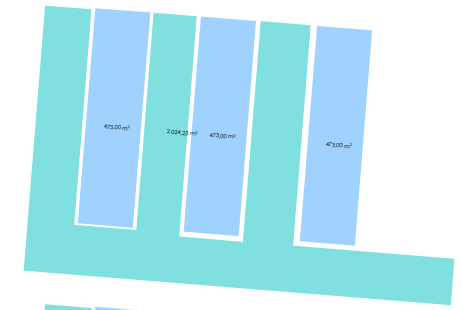
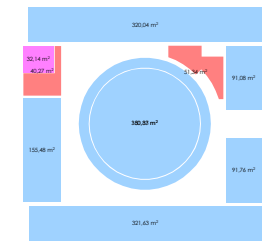
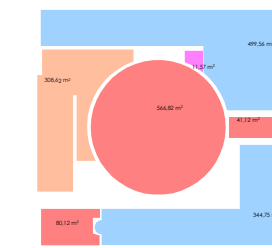
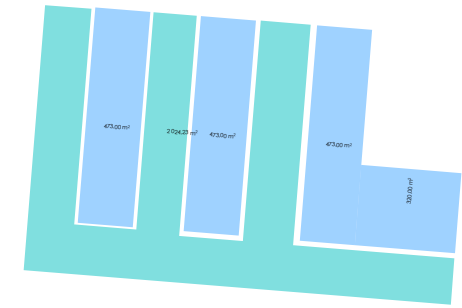
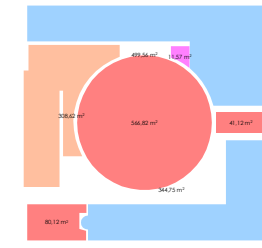
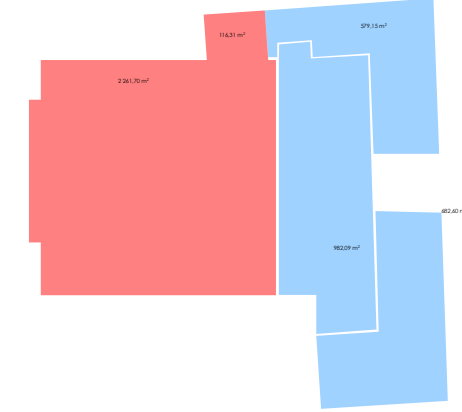
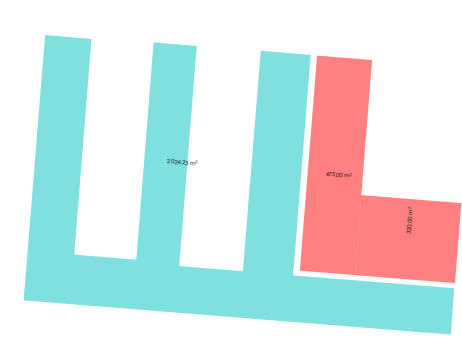
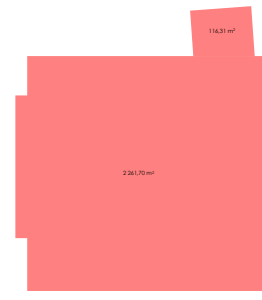
Epok möter epok på Observatorielunden. De gamla fastigheterna utmed Salmätargatan stod 1928 fortfarande kvar i närheten av det moderna stadsbiblioteket.



2006 Competition Brief



2014 Competition Brief



Original

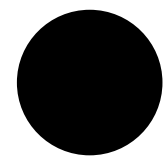
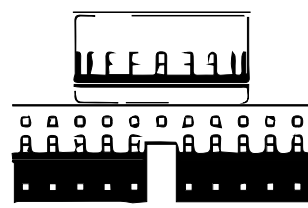
Total area = 7 500 sqm

2006 First Competition

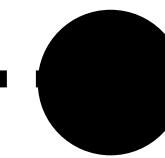
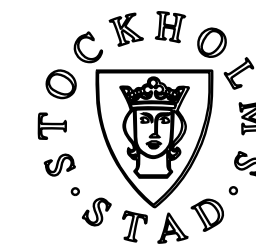
Total area = 24 000 sqm

2014 Second Competition

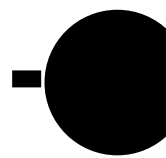
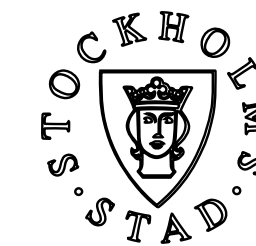
Total area = 9 700 sqm



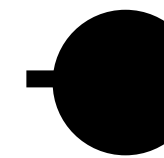
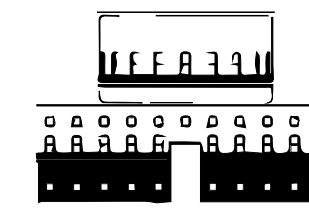
1928
Library
launch



2006
First
Competition



2014
Second
Competition



2028
100th year
Anniversary

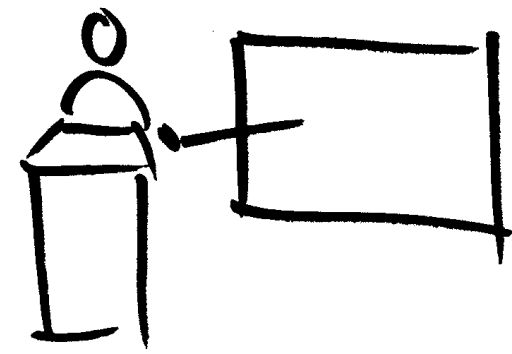


PROGRAMME						
No.	Room name	2006 Brief floor area (m2)	Proposed floor area (m2)	Total area m2	Function	Remarks
Utilities						
1	Entrance	500	500		Welcoming & Including guests within the city, country & community	65% of visitors come from outside the neighbourhood mainly Odenplan Citybana, open 24/7, self-service for quick use for morning flow of people
2	News zone	300	300		"Promote education (information) to combat fear and prejudice"	Multilingual, Adult + child oriented, technologically advanced, near entrance + café, communication tunnel between library and outside
3	Restaurant	700	700		Revenue(library promotion, city logistics hub)	Welcoming Odenplan arrivers, interweaving exhibitions, connect with self heating etc. like Echo building , crawl zones, trolley accessible, open when library is closed
4	Café	300	300		Revenue(library promotion, city logistics hub)	Welcoming Odenplan arrivers, interweaving exhibitions, connect with self heating etc. like Echo building, crawl zones, trolley accessible, read & study
5	Toilets	200	200		Library promotion, city logistics hub	Main complains about the lack of this facilities
Adult library						
6	Learning zone	1550				Mixed-use, group learning + individual learning, varied reading, help with homework(friends)
7	Studio	150				Mixed-use, 10 rooms, internal + public use
8	Teaching	200				Mixed-use, colaborative, knowledge sharing, help with homework
9	Auditorium	500				Mixed-use, 200 people, AV technology, debate (no power imposing), can shift outdoor
10	Main library	12200				Fiction, children fiction, foreign languages, arts, aesthetics, civic studies, nature and technology, people and countries, young people (evrithing should relate to young people tho), 20% should be display area (book cramping)
Children library						
11	Children story rooms	N/A	100		Promoting the library for the youngest	2 rooms for up to 30 people, library welcomes loads of classes, flexible, soft crawl friendly materials,
12	Classroom	N/A	50		Group lab/ room	Creative activities, sink, storage, flexible, soft crawl friendly materials

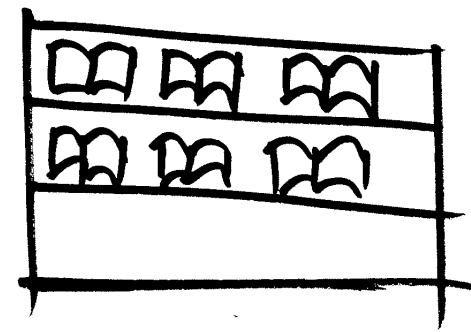
13	Small clasroom	N/A		30		Group lab/ room	With kitchennete, luma library model, flexible, soft crawl friendly materials
14	Cloak room			30			
15	Pram parking			20			
16	Kitchennete			30			Packed lunch heating, coffe making, eating, exhibition, display areas, ordinary tables, straight chairs, comfortable armchairs, places to lie down, small children crawl, perhaps connected to the café/ restaurant
17	Children library		900				Child friendly IT areas, bookshelves, book trays, display areas, games playing, alternative language, digital participation (tablets and games)
Media logistics							
18	Sorting machines		150			Management	Close to entrances as requested
19	Media management		850			Management	
20	Depositories		1000			Storage	
21	Logistics loading/platform		200			Distribution, fast delivery, country wide? EU wide?	Important for the library to be able to deliver the books if not in the collection
22	Caretaker office, property services		500				
23							
Back of house							
24	Management		200				8 desks including city librarian, HQ of city library, Flexible, library staff only spends 1h behind the desk, semi public library spaces
25	Marketing		300				15 desks (5 for graphic designers) production of communication materials, posters, signs etc.
26	Virtual (IT)		200				15 employees for upkeep and development of IT premieses of the libray, (E-book accounts for 7%)
27	Outreach activities		100			Consulting body for city libraries	Overlooks hospitals, nursing homes, prisons and workplaces. Mix woth regional library for coordination?
28	Regional library		300			Consultation and support for libraries in the country	Work station for 20 people, separate departament so no mixed used
29	Staff areas		900			Meetin and lunch	Promoting communication, kitchennete, meet and talk, copy rooms, break rooms, cloakrooms, mailboxes
30	Swedish intitute of children books		1200			Pernament	Pernament location for advising the scholars and people of intrest on books that are not easy to reach



Cafe and restaurant



Teaching rooms
/Project rooms



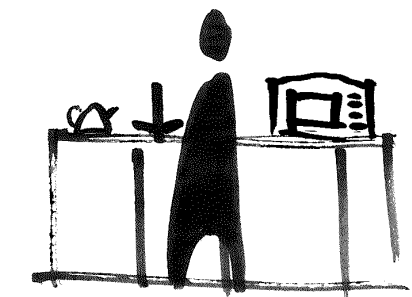
20% more display
area

WC

More toilets



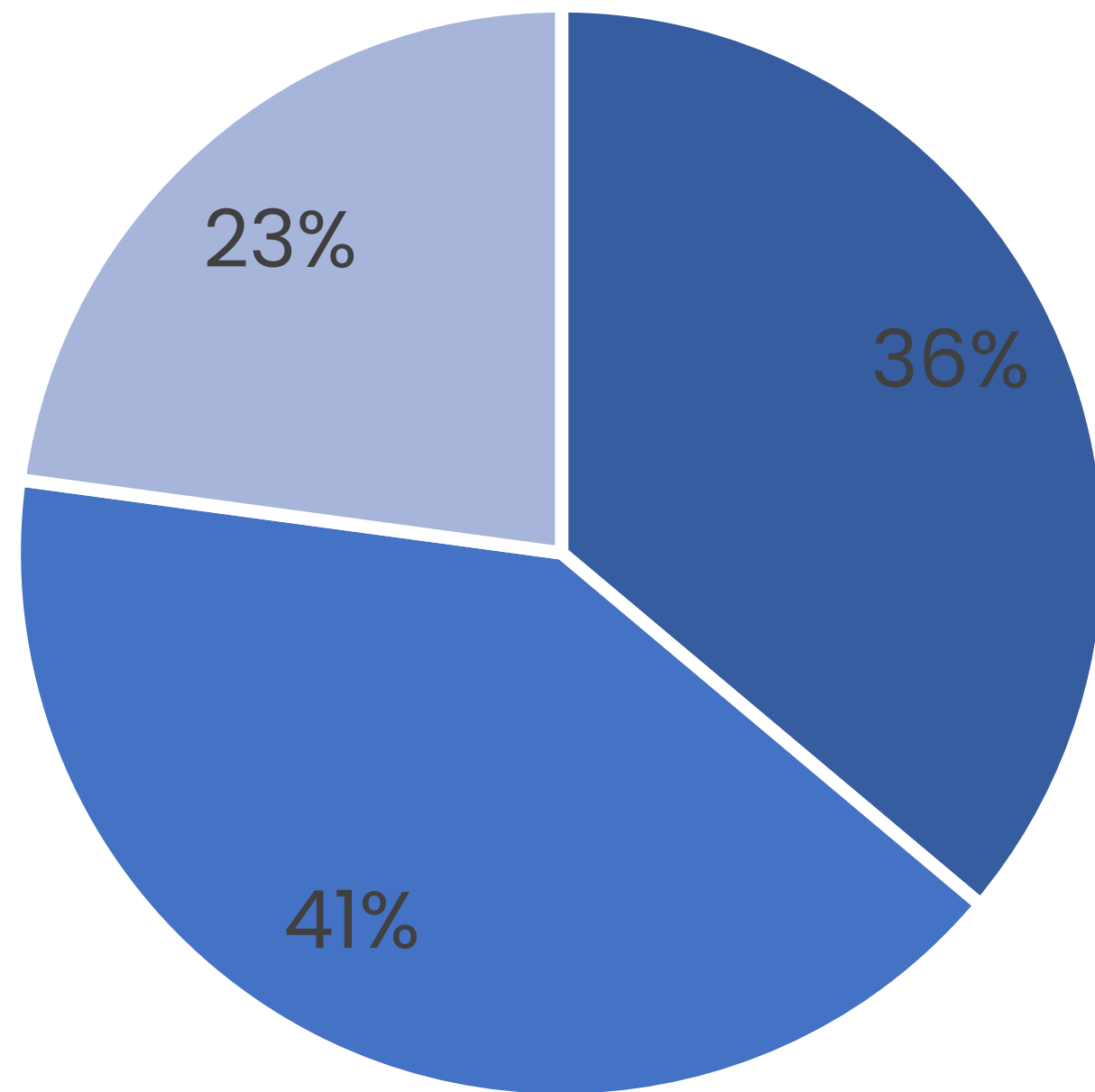
200 people
auditorium



Kitchenettes

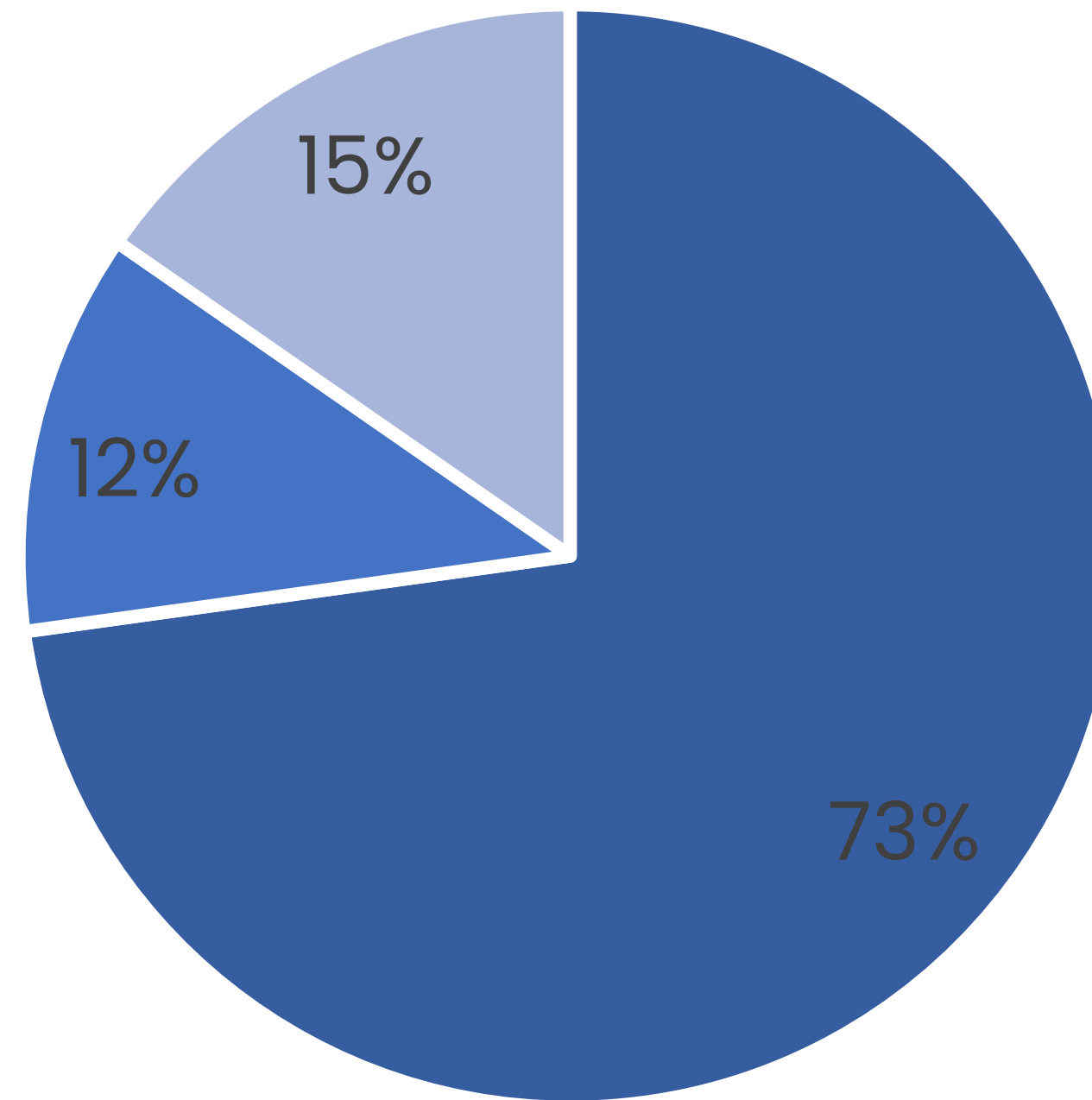
Source: 2006 and 2014 Competition briefs

Original



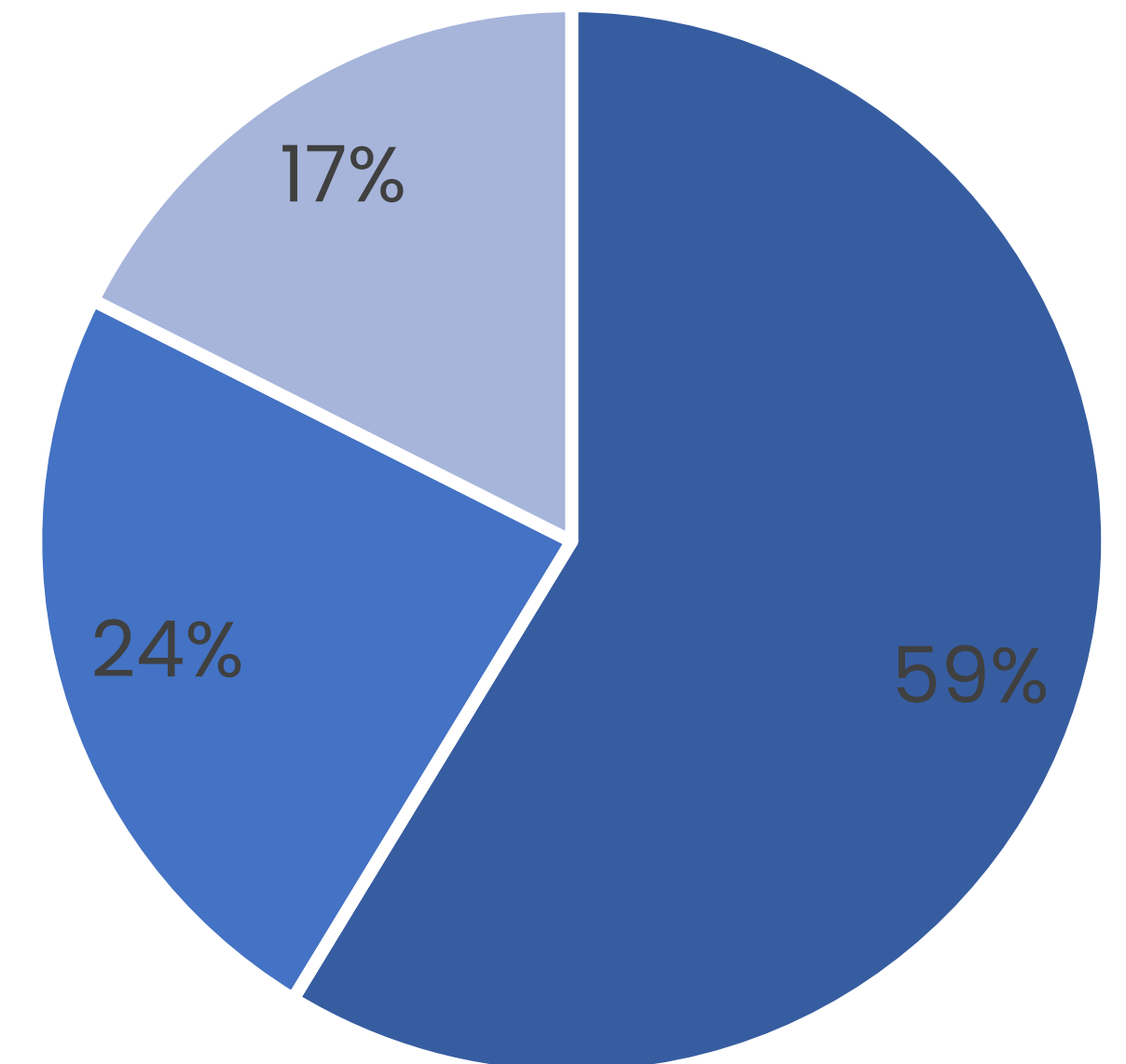
■ Administration

2006 First Competition



■ Public

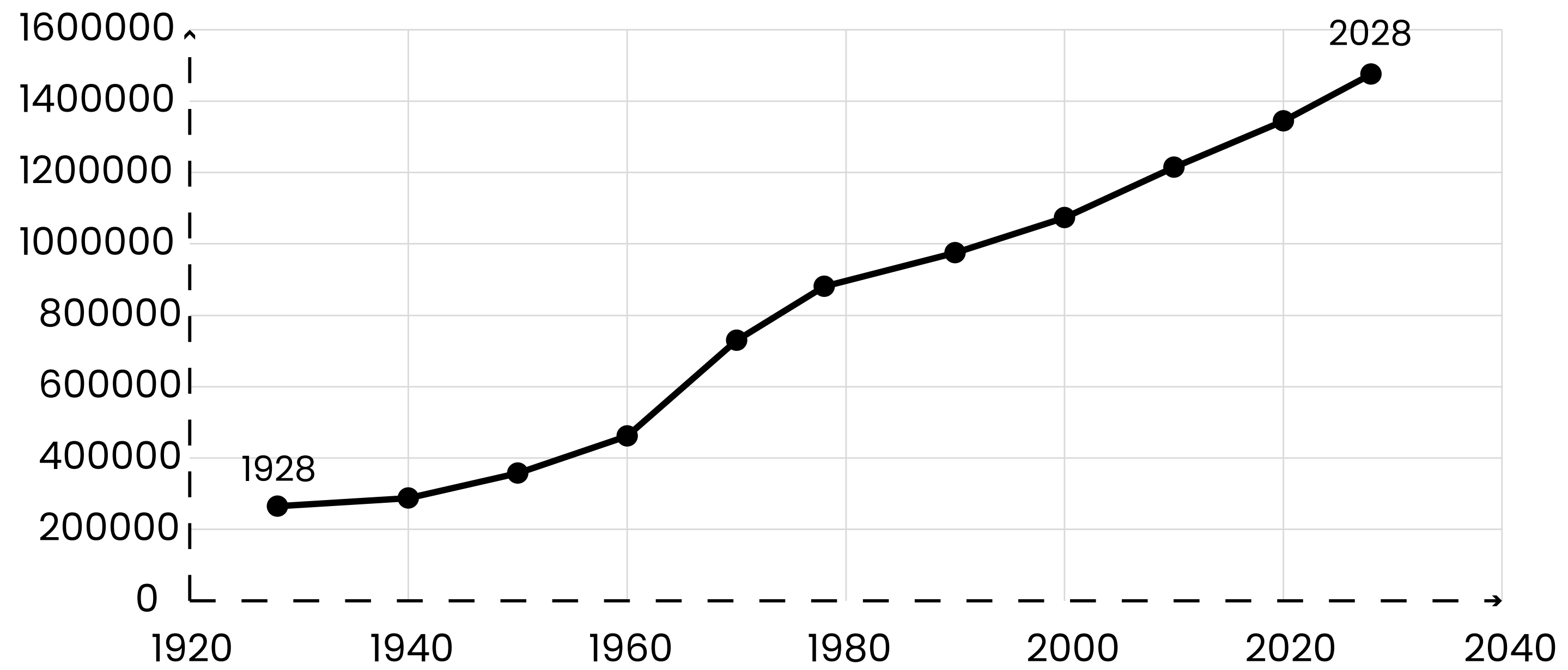
2014 Wining proposal



■ Depositories

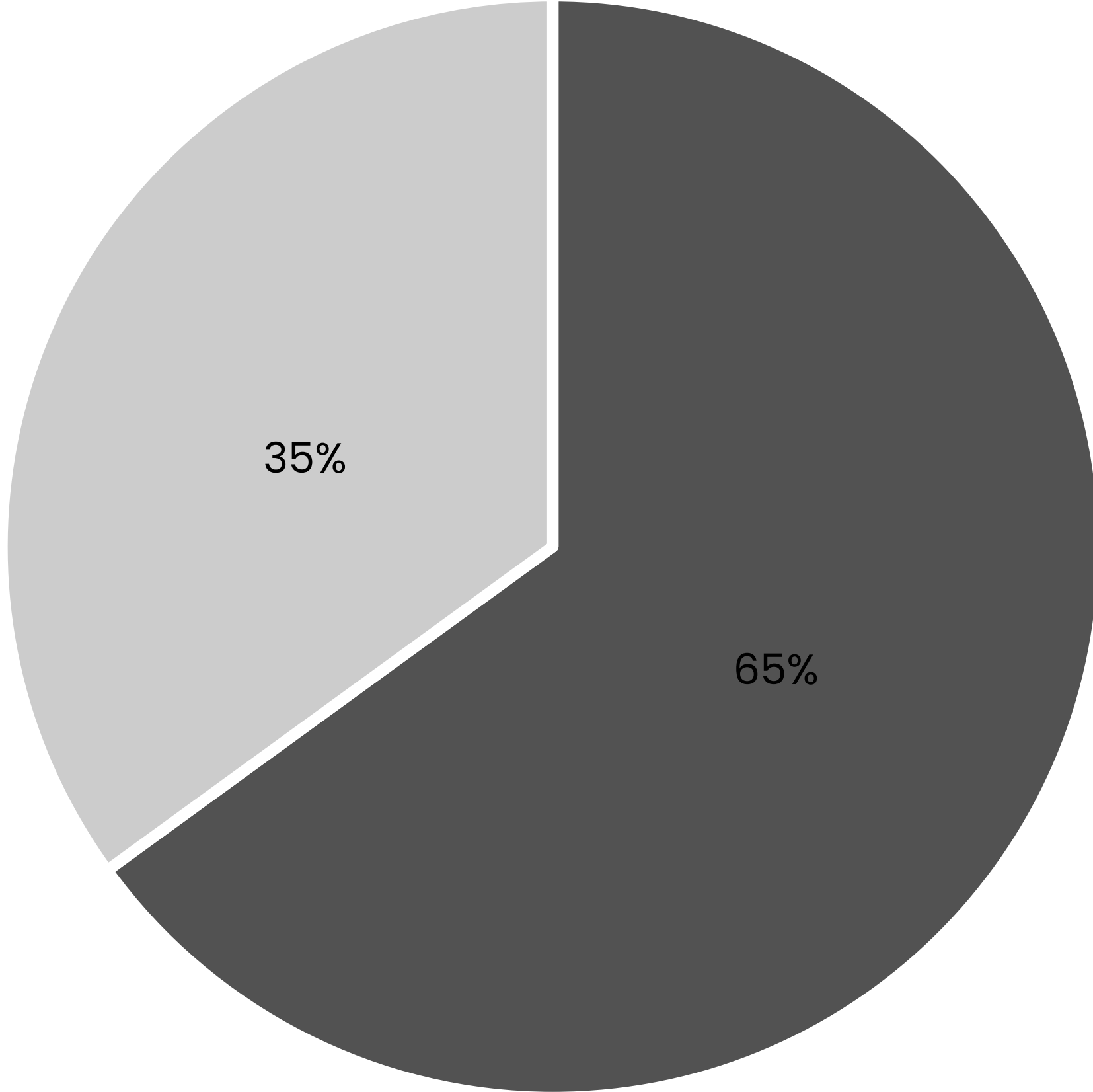
Source: 2006 and 2014 Competition briefs

Population of Stockholm and Suburbs



The prediction for growth of Stockholm and its suburbs who travel to the central library
Source: <http://demographia.com/db-stk.htm>

Visitors



Local area



External traffic

Source: Competition briefs





Stockholm. Stadsbiblioteket & Plaskdammen.

Stockholm City Library Archive. n.d. Pond. <https://brightspace.tudelft.nl/d21/le/content/594289/Home>.



Stockholm City Library Archive. n.d. Park. <https://brightspace.tudelft.nl/d2l/le/content/594289/Home>.



Stockholm City Library Archive. n.d. Reading room. <https://brightspace.tudelft.nl/d21/le/content/594289/Home>.



by IBC Studio Palace



by IBC Studio Palace

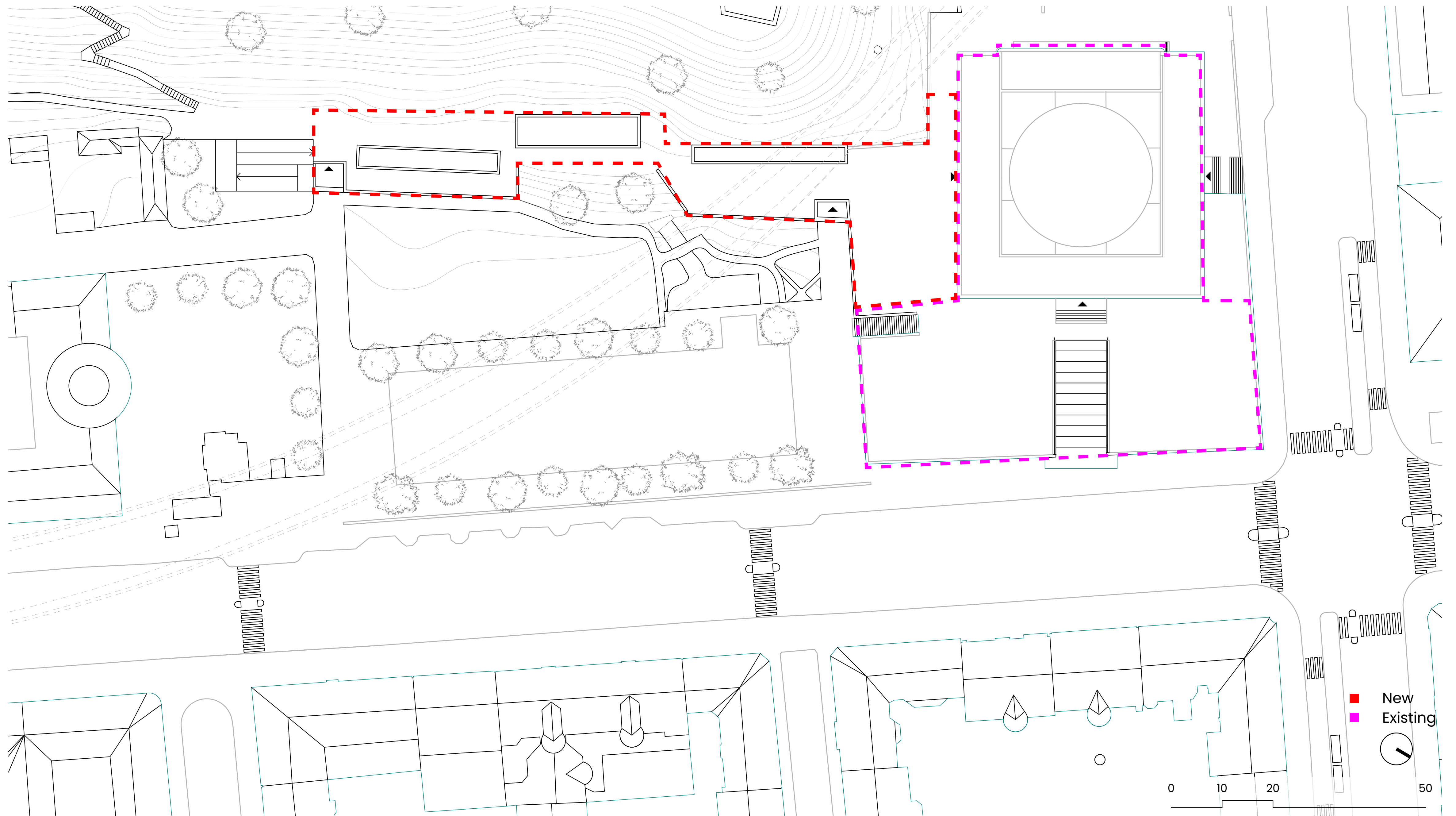
Proposal

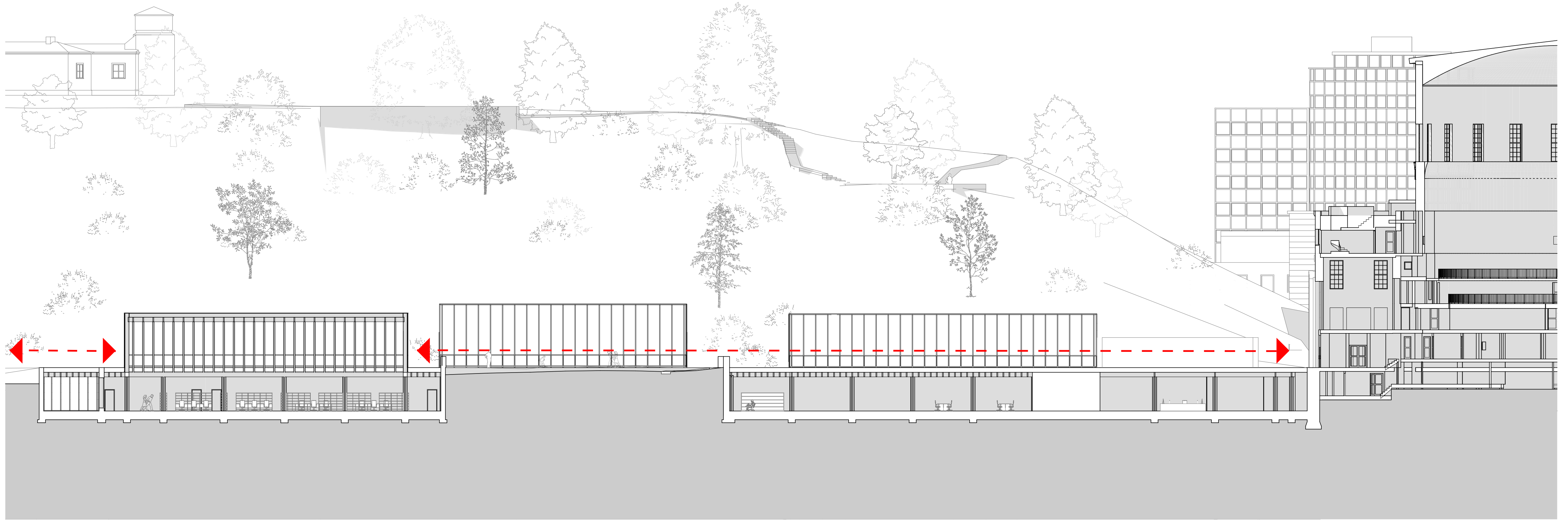
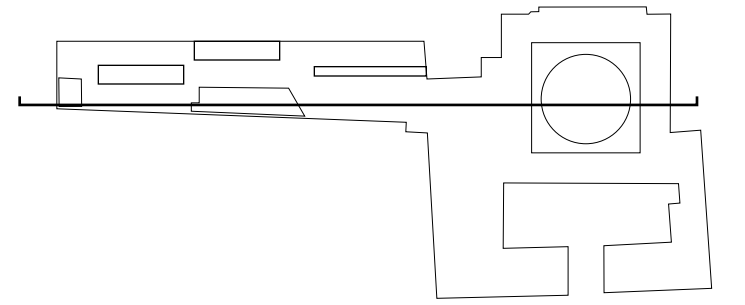












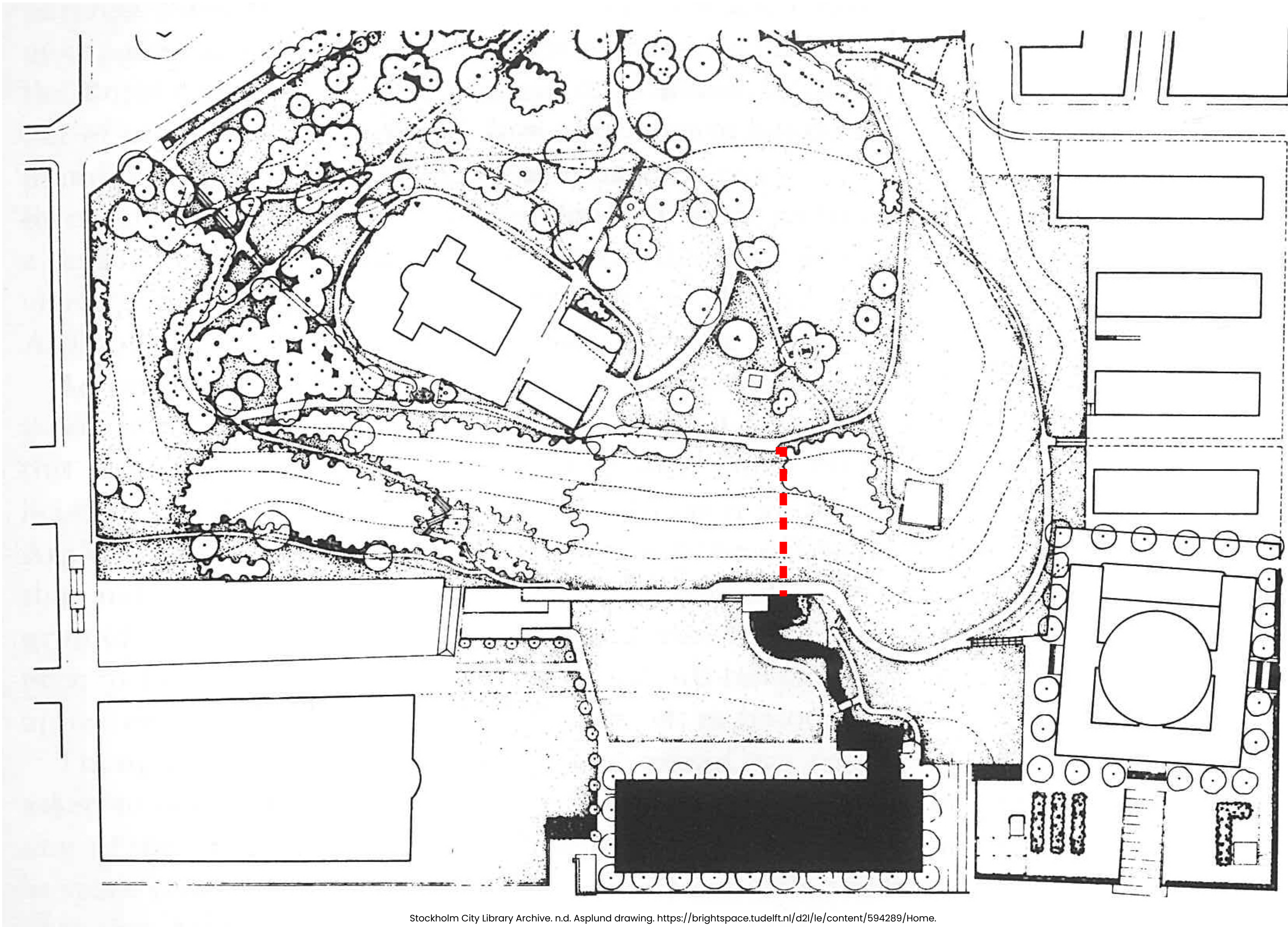
SECTION

1

0 1 2 5 10 20

1:200

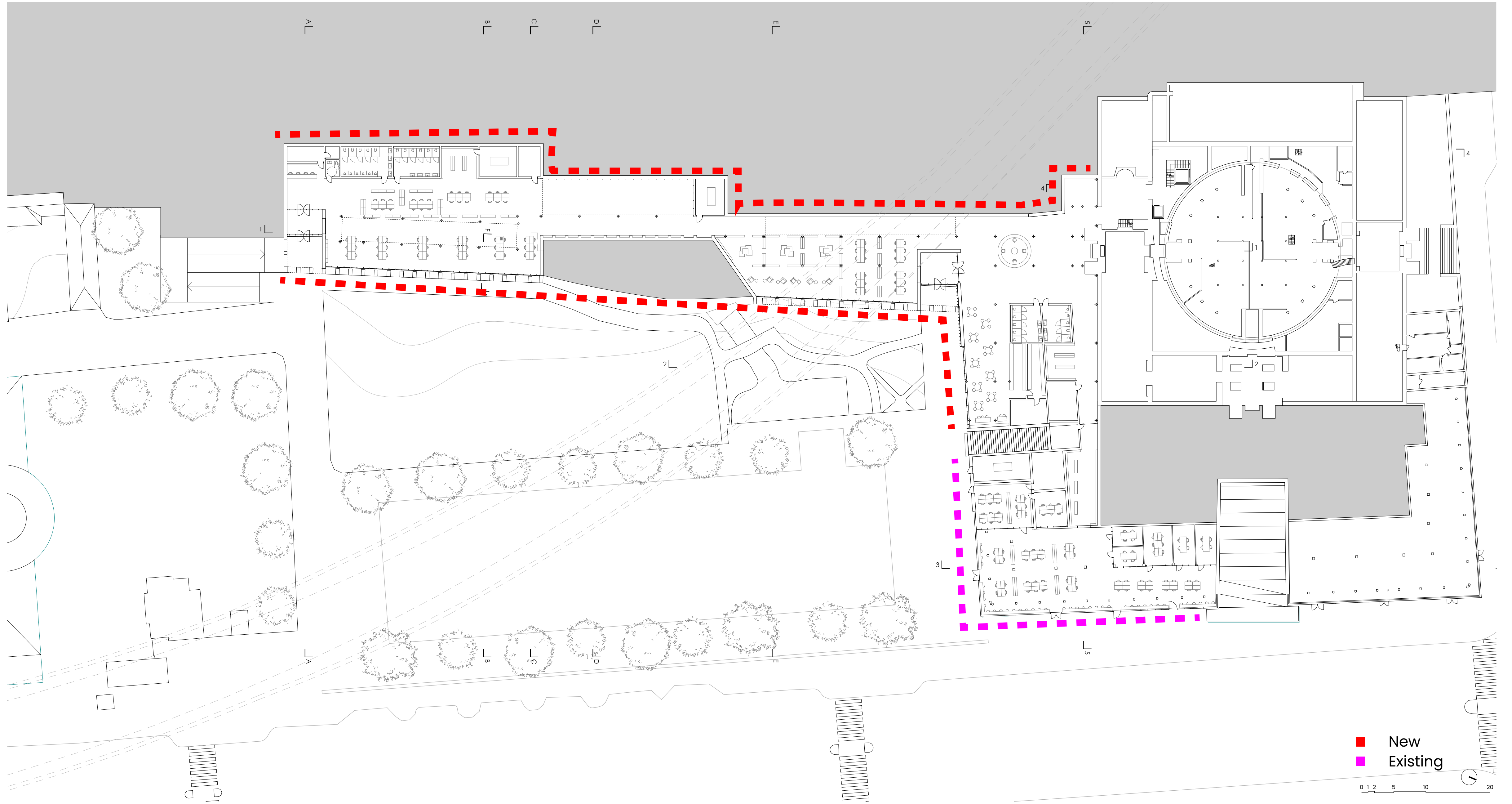




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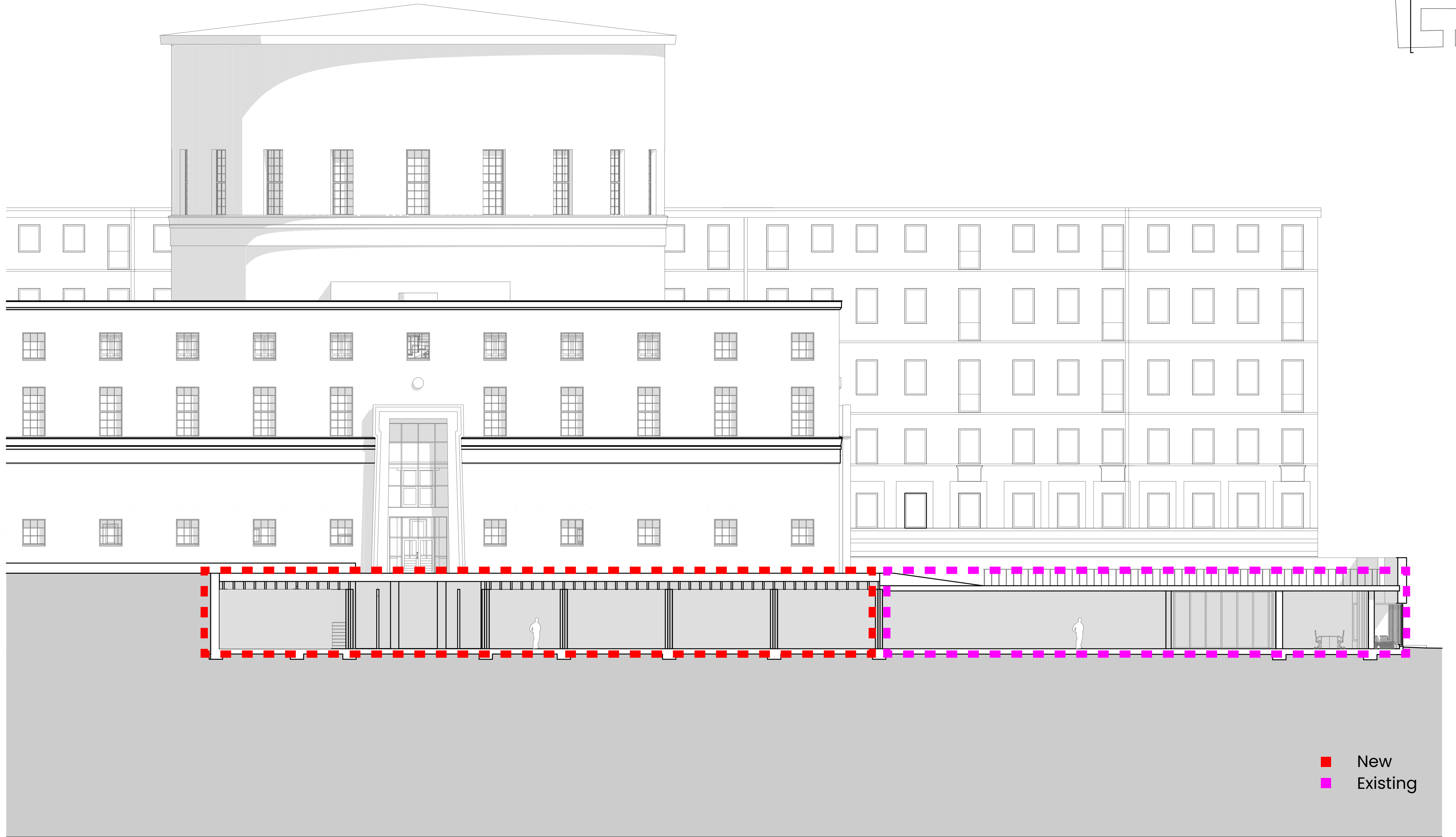
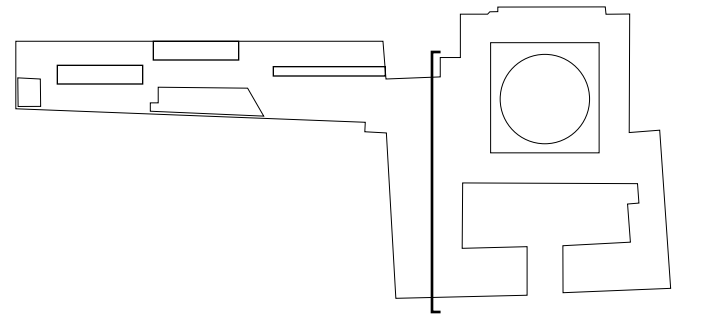


BÄCKENS U
I STORA DAM
ALT. D

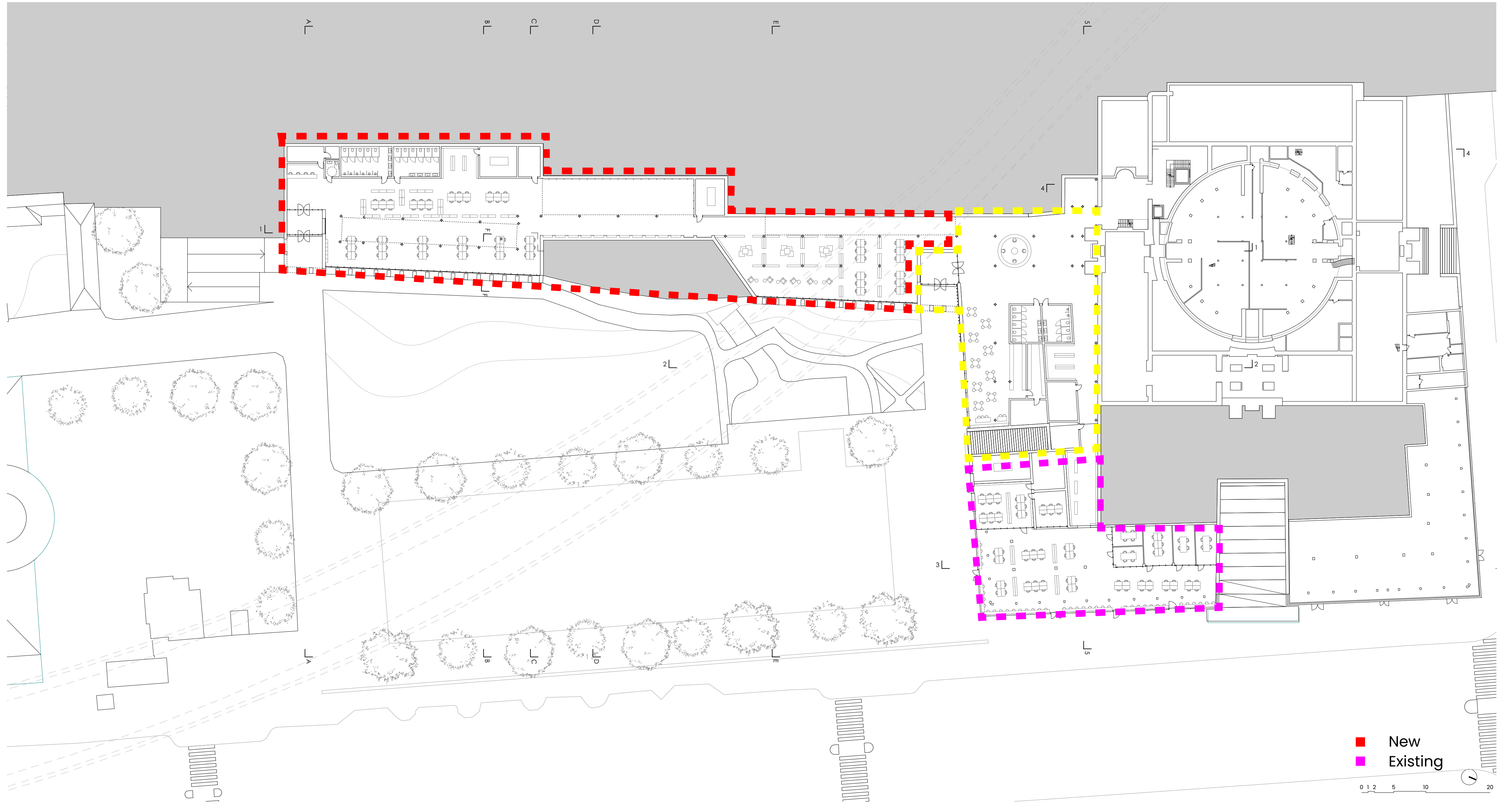


■ New
■ Existing

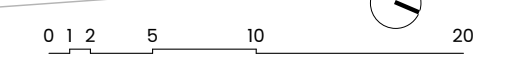
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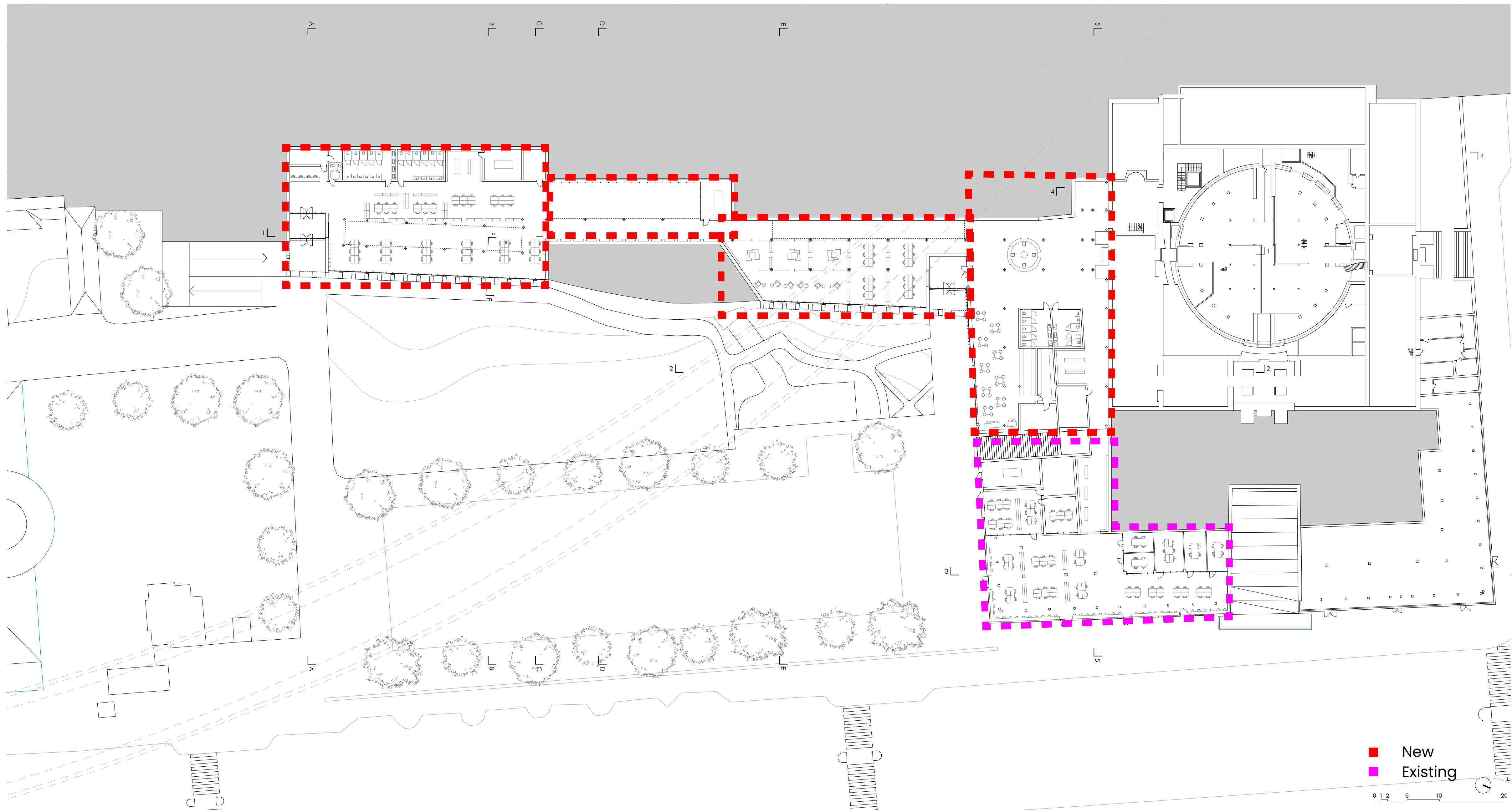


■ New
■ Existing

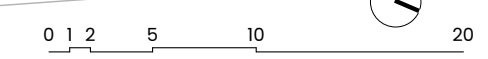


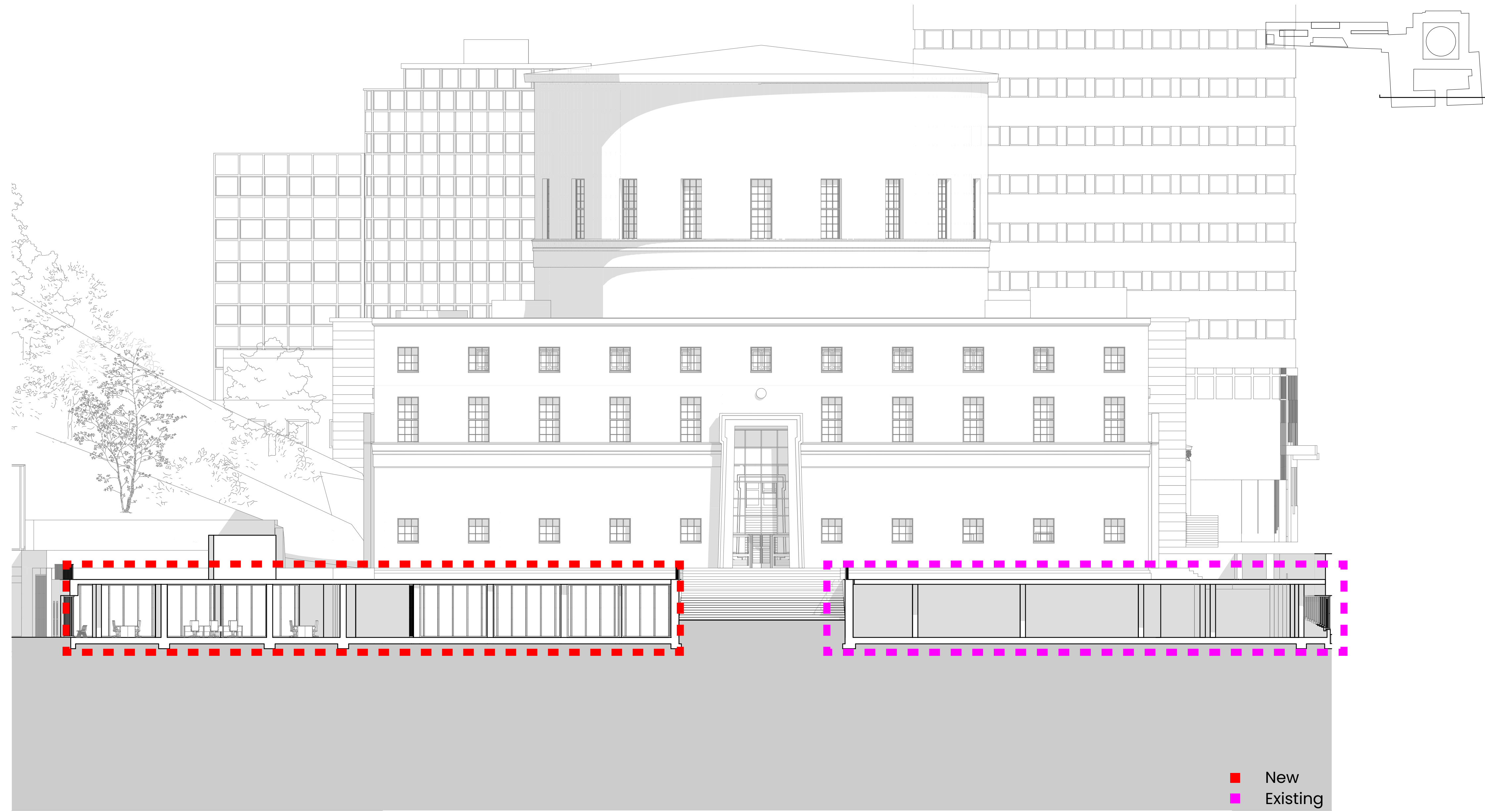
■ New
 ■ Existing





■ New
 ■ Existing





SECTION

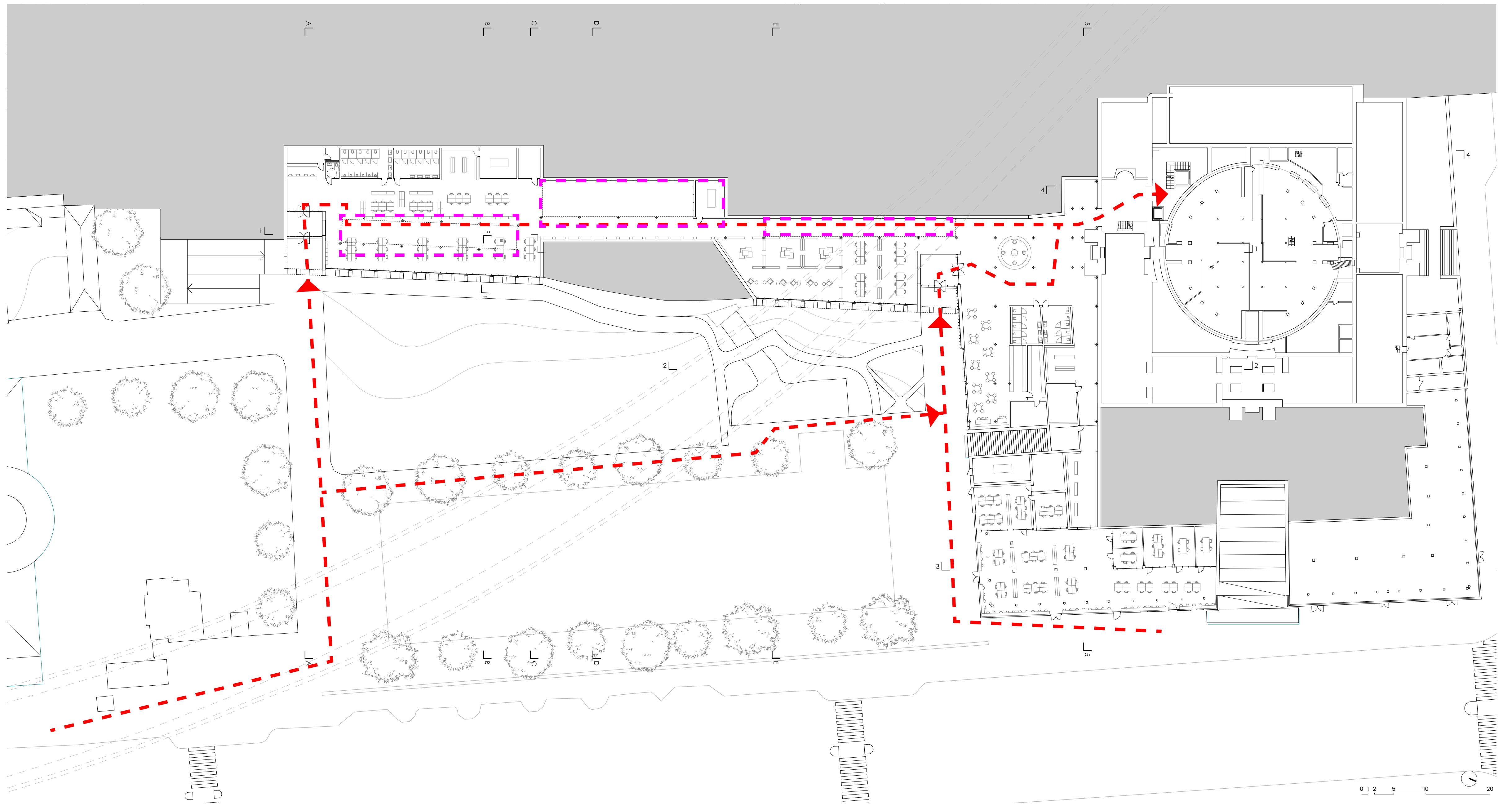
3

0 1 2 5 10 20

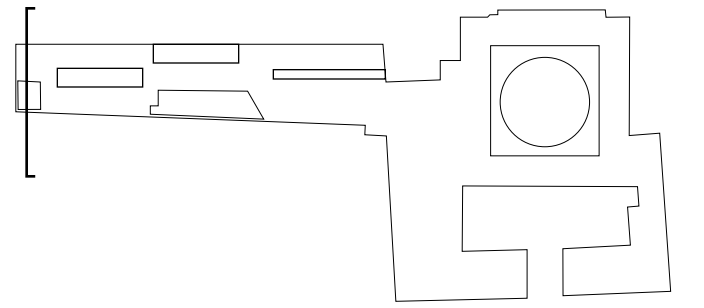
■ New
■ Existing

1:200









SECTION

A

0 1 2 5 10 20

1:200

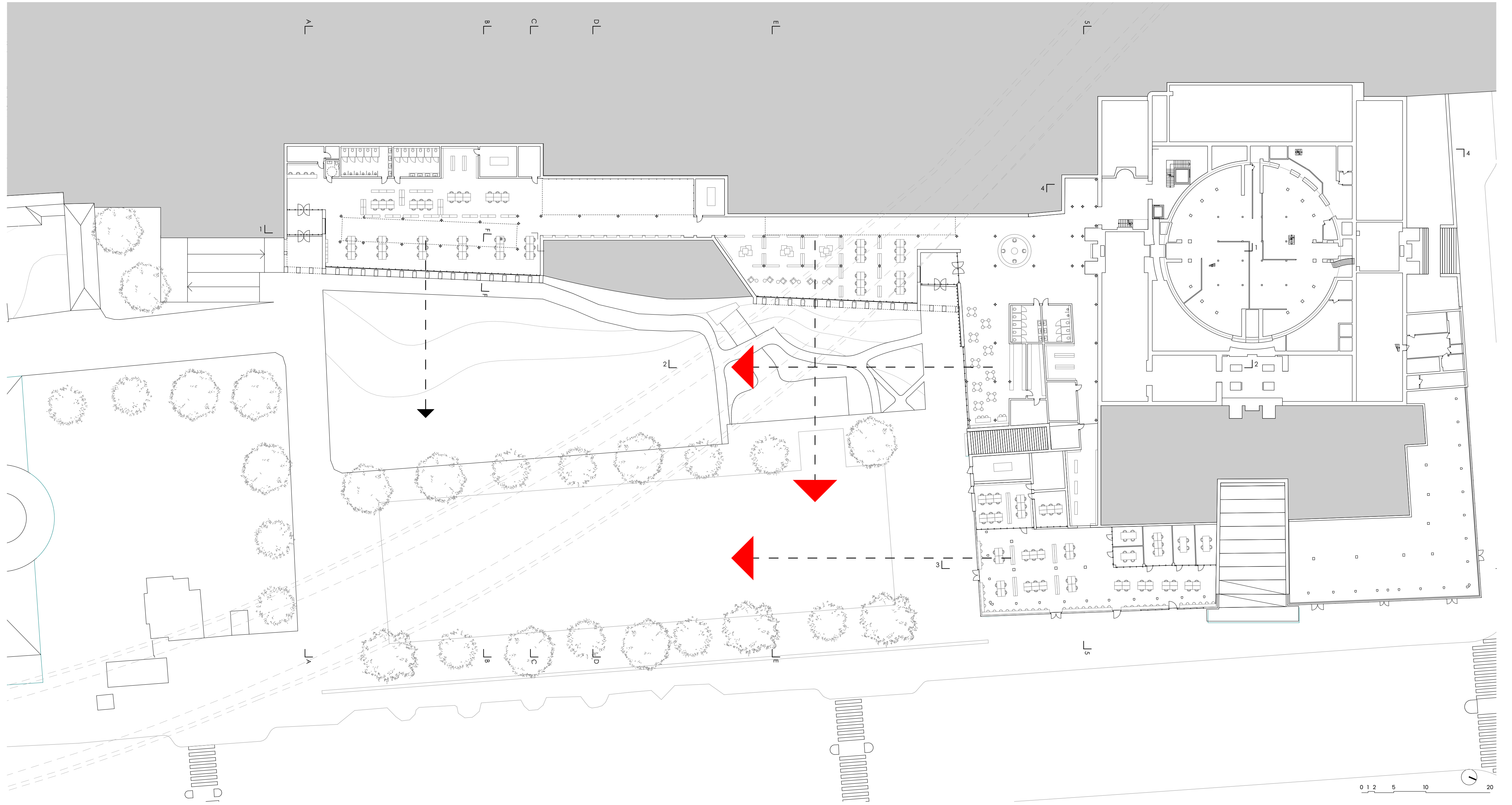




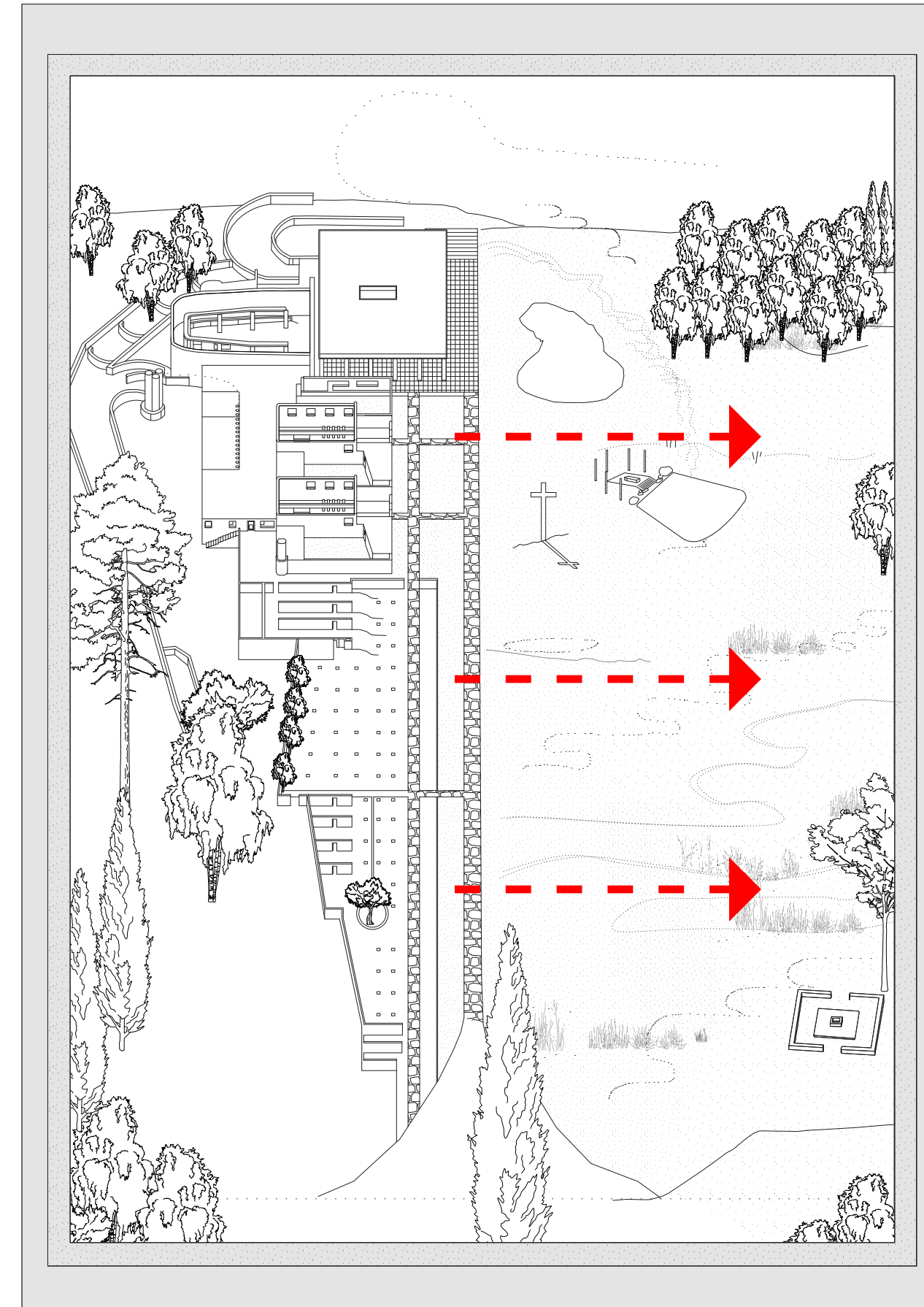
Entrance sketch ideas inspired by a building previously on the site



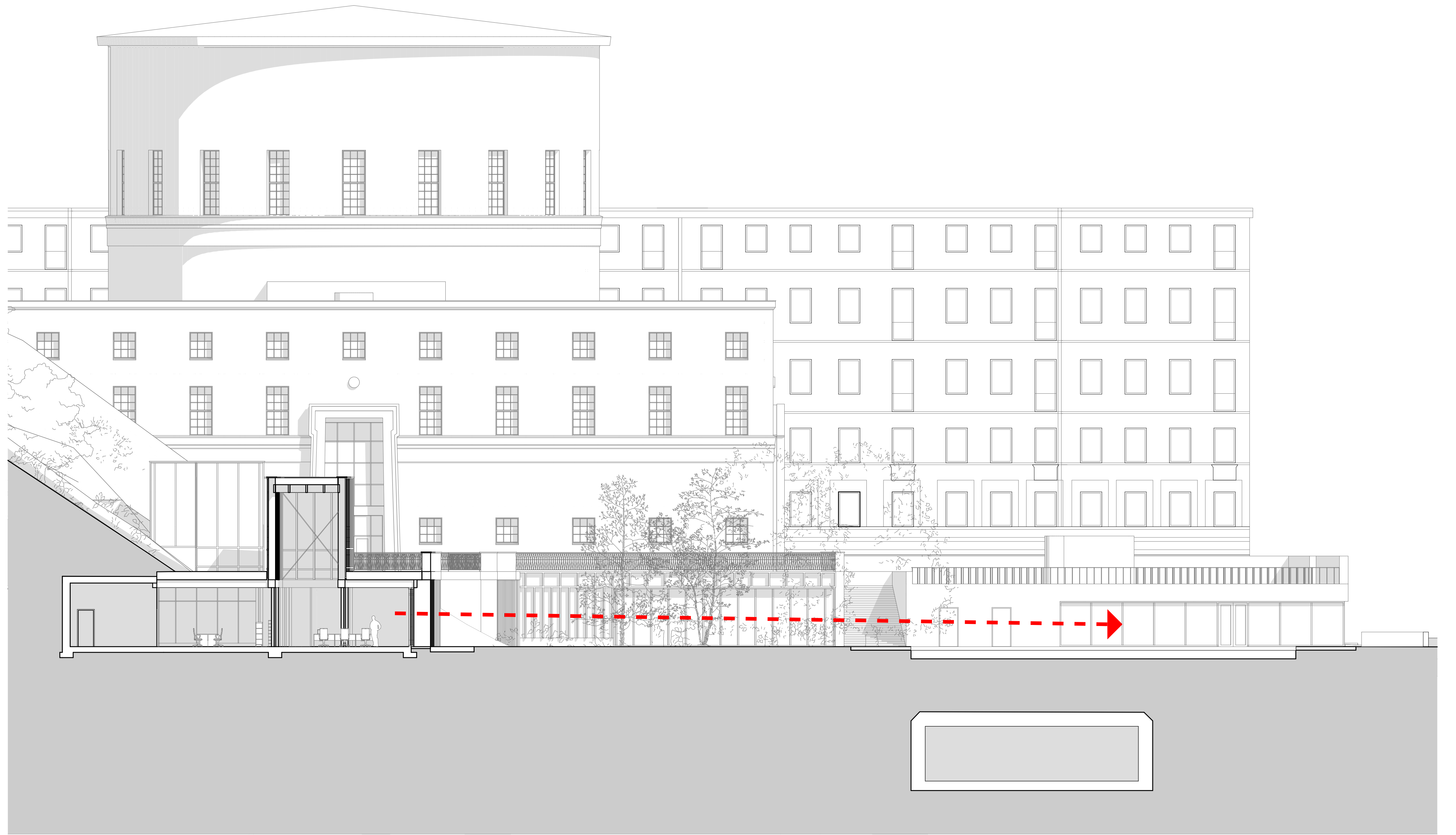
Stockholm
stadsbibliotek



Woodland Crematorium, Erik Gunnar Asplund



Source: IBC Collective research project



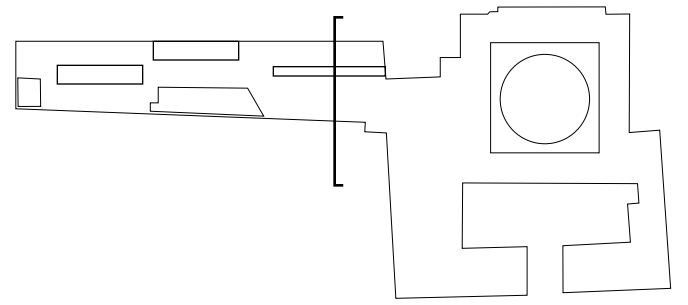
SECTION

B

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1:200





0 1 2 5 10 20

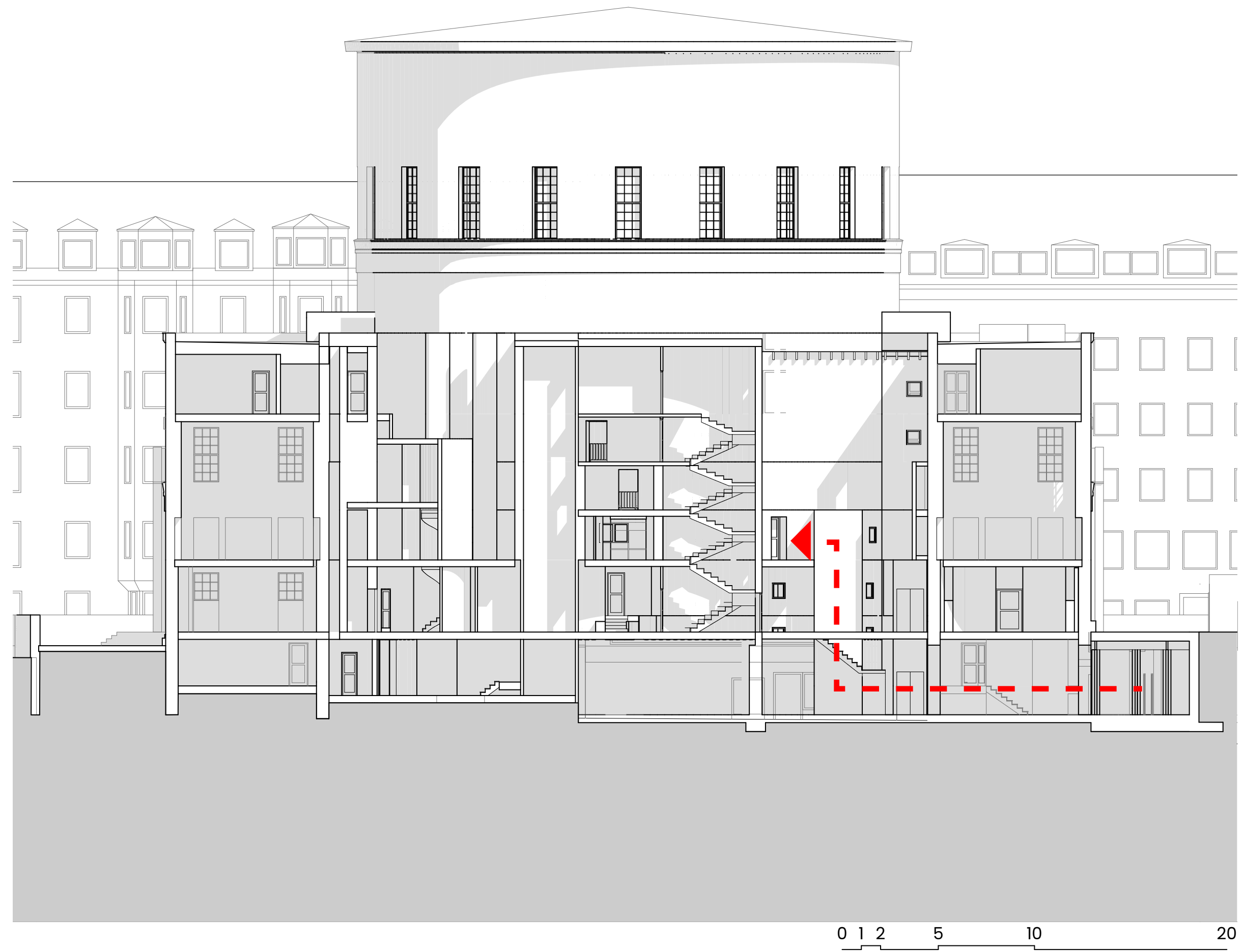
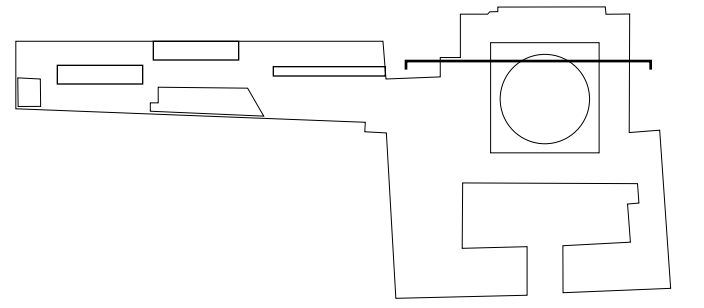
SECTION

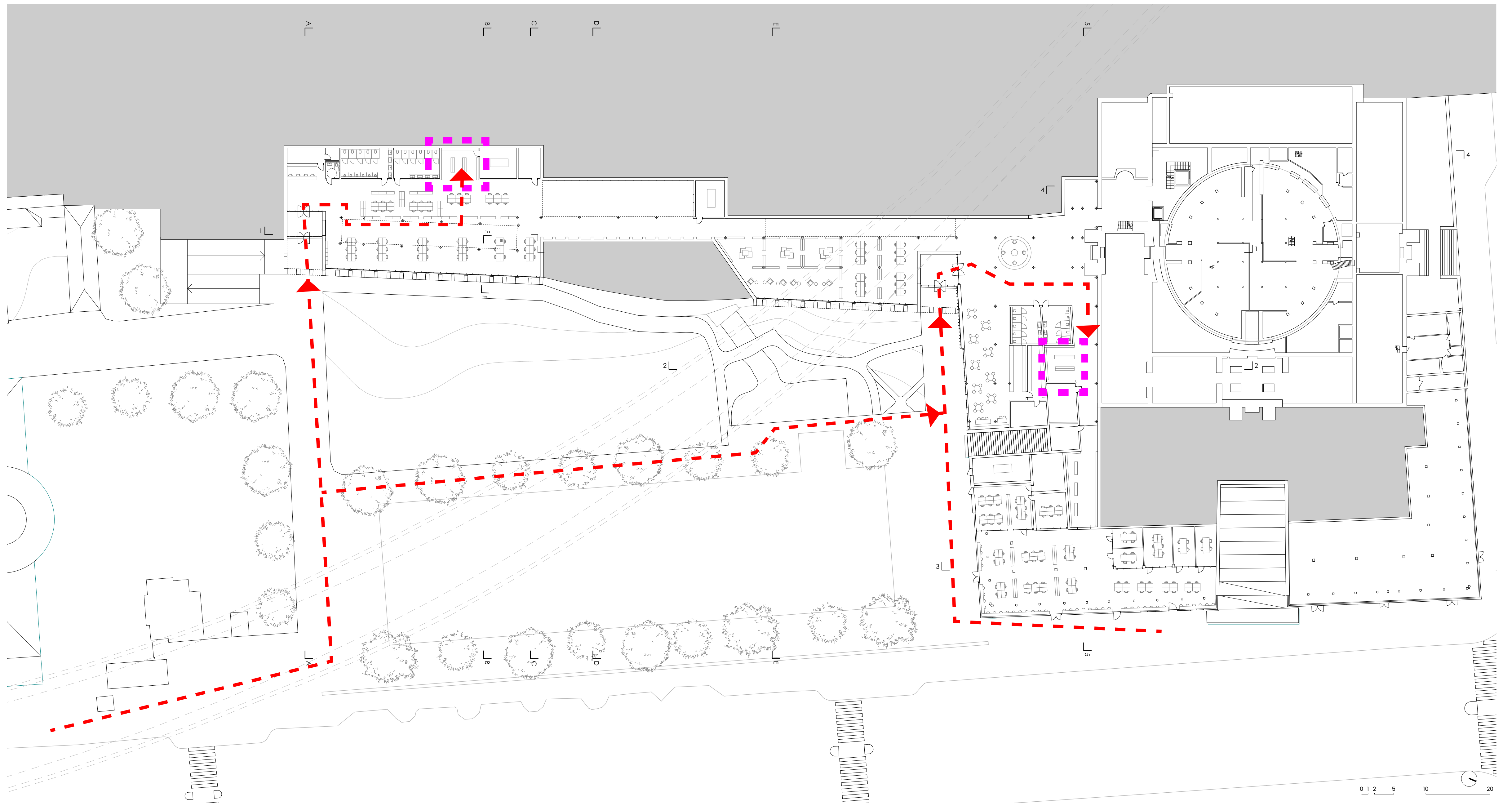
E

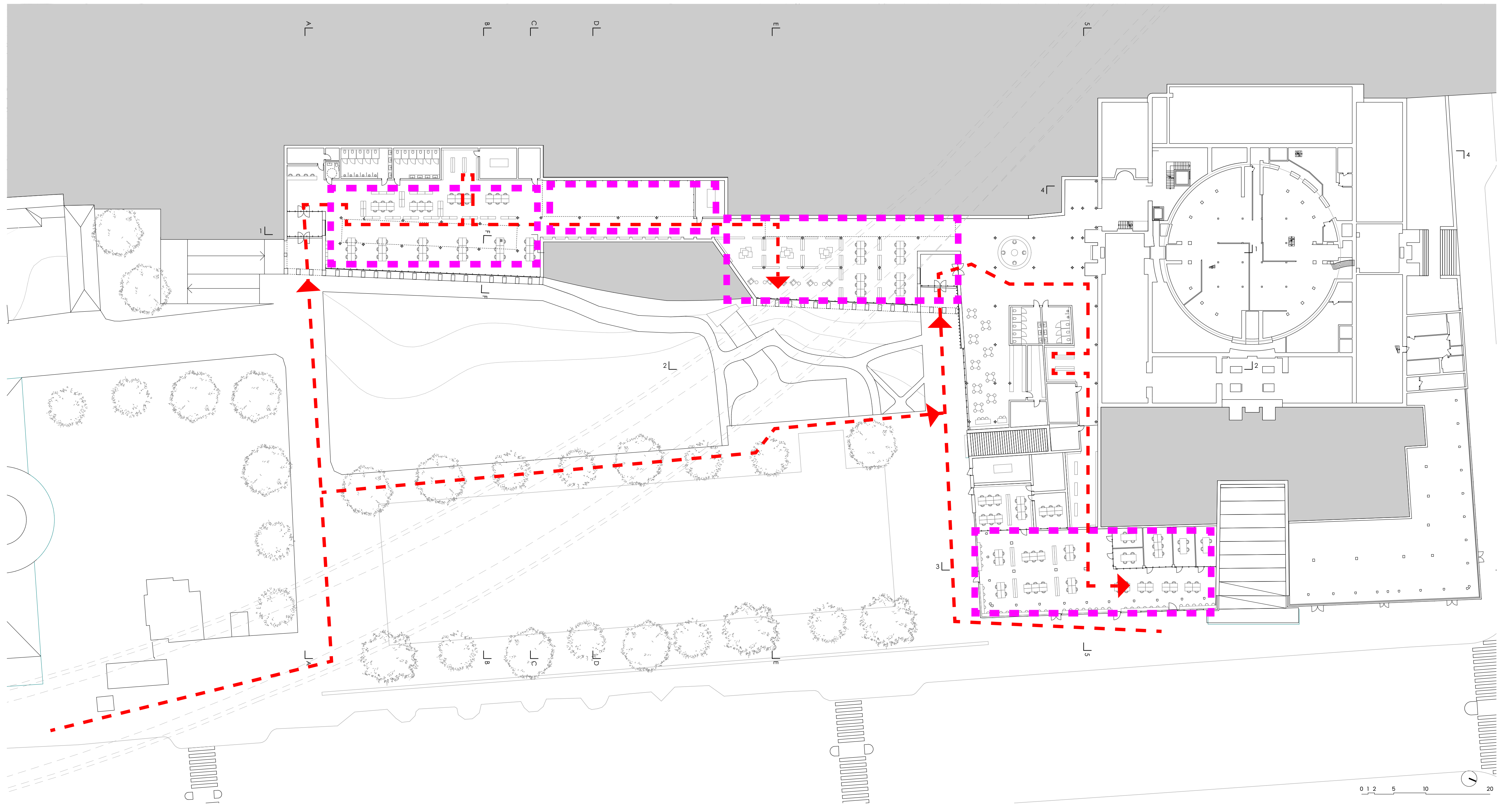
1:200

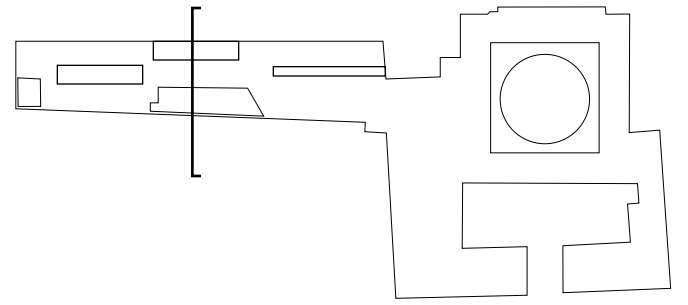










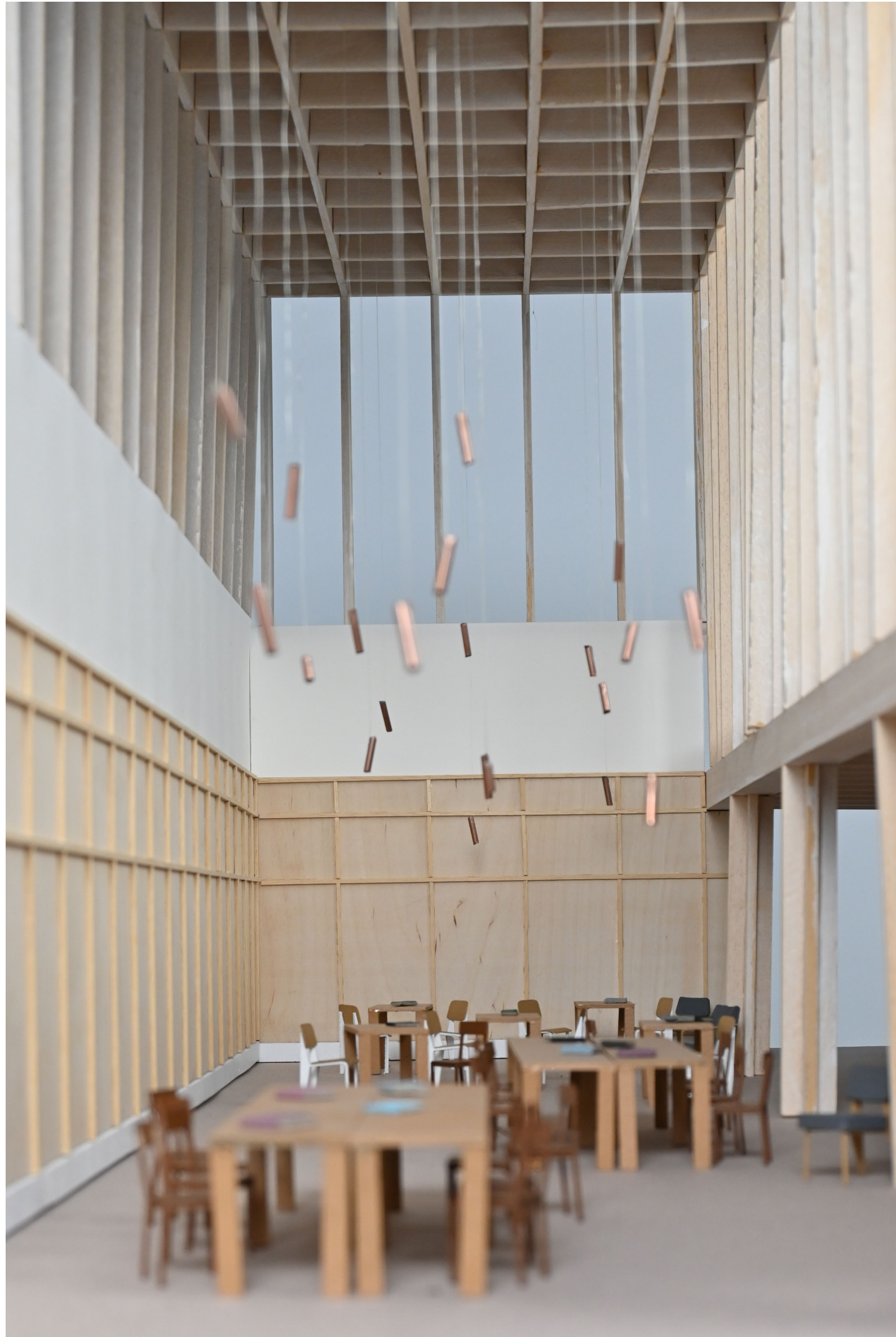


SECTION

D

0 1 2 5 10 20

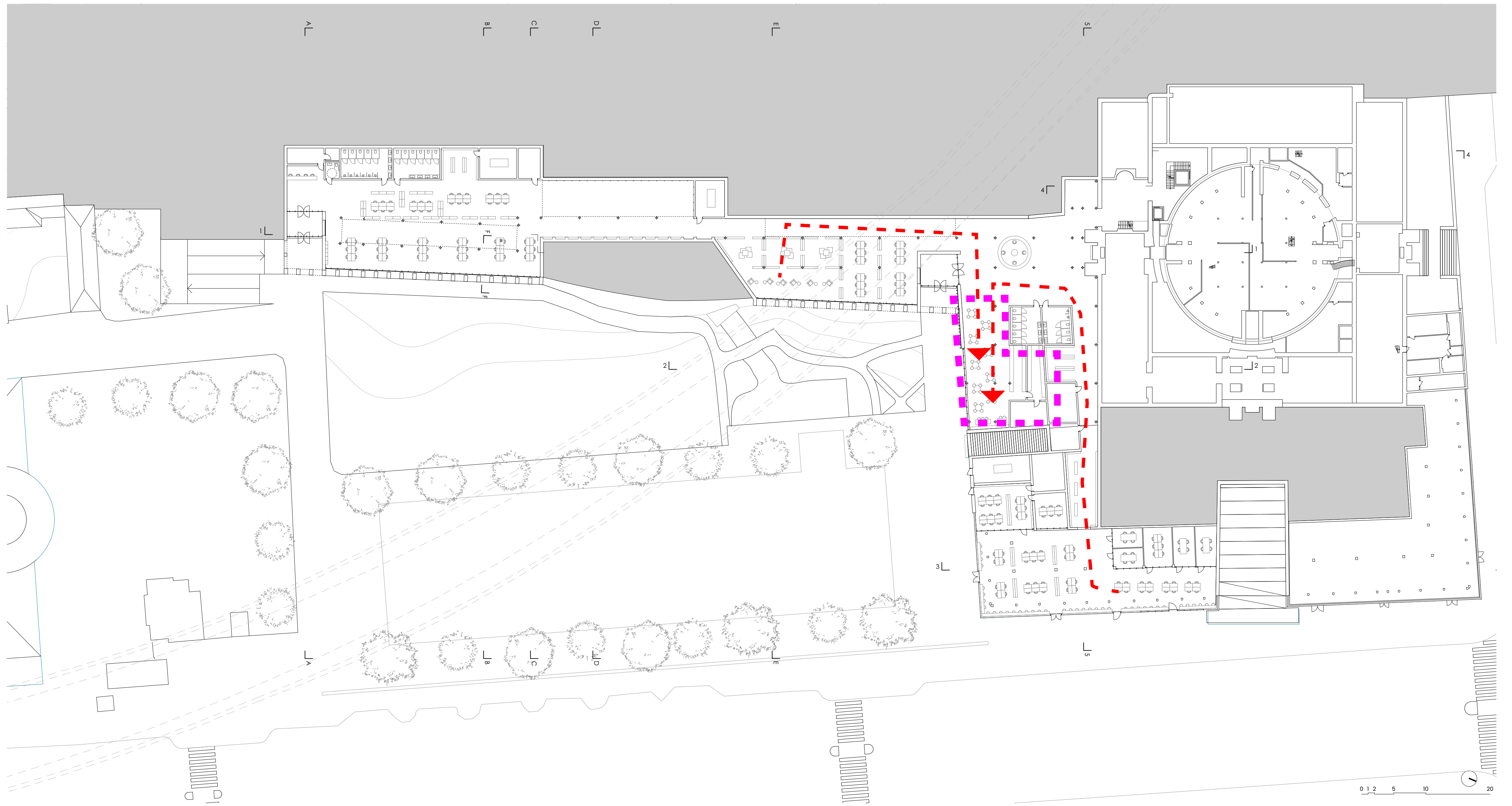
1:200

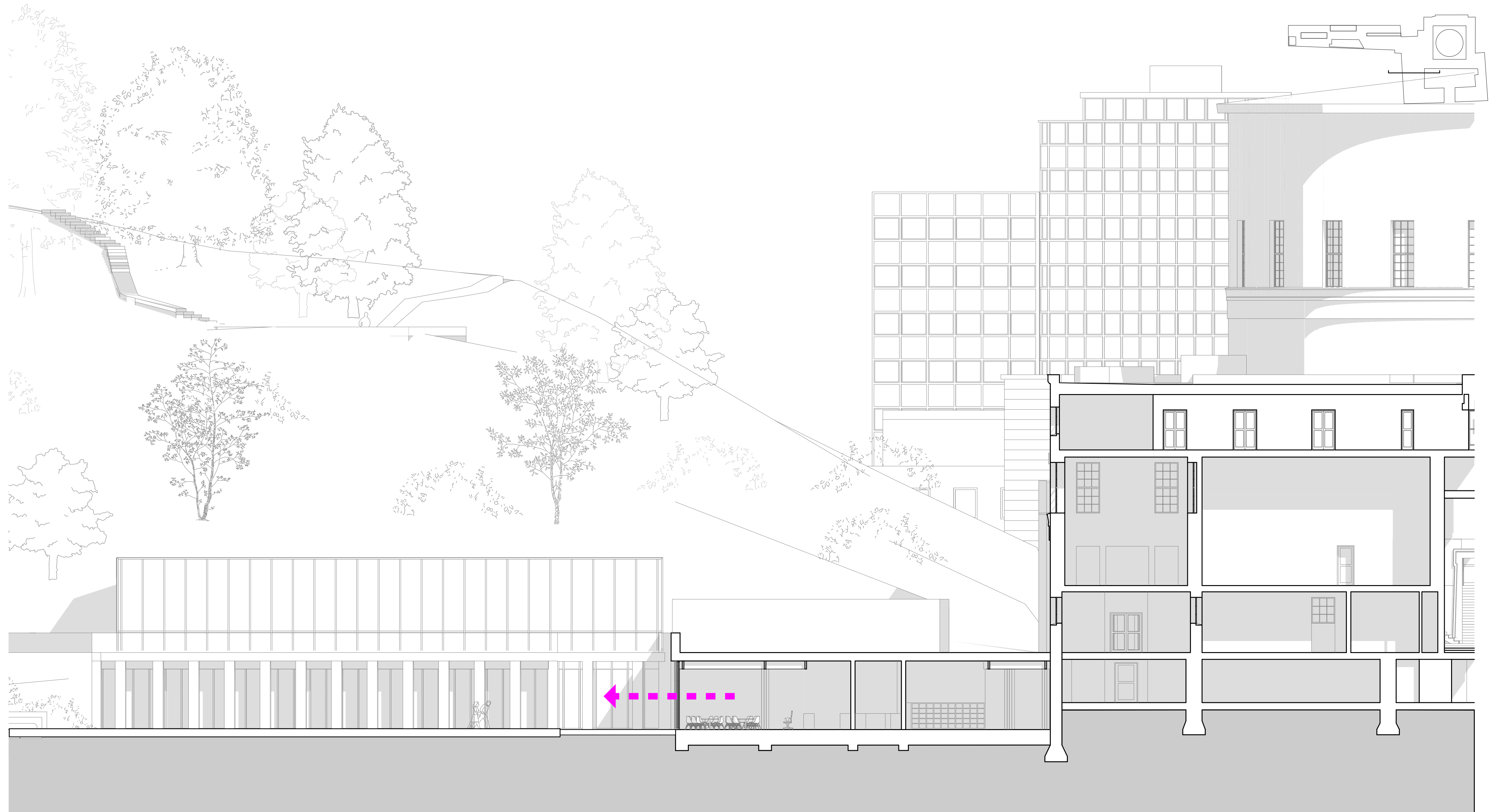




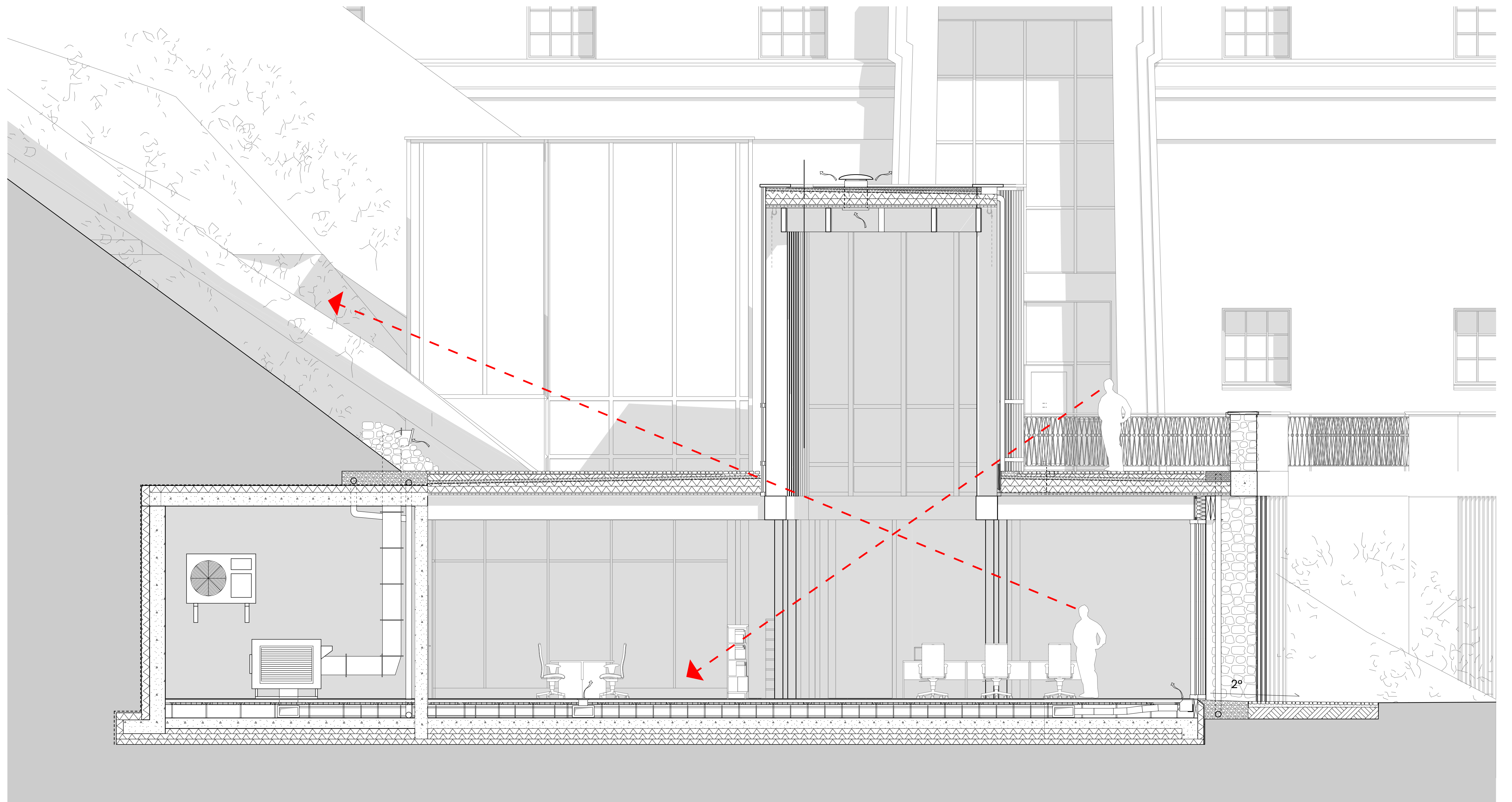






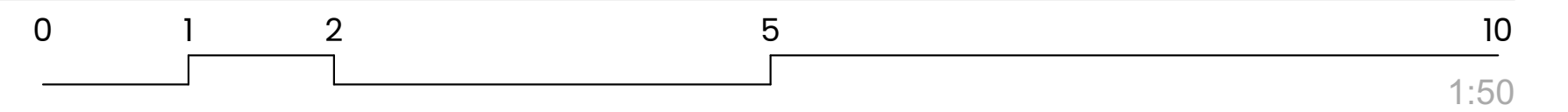






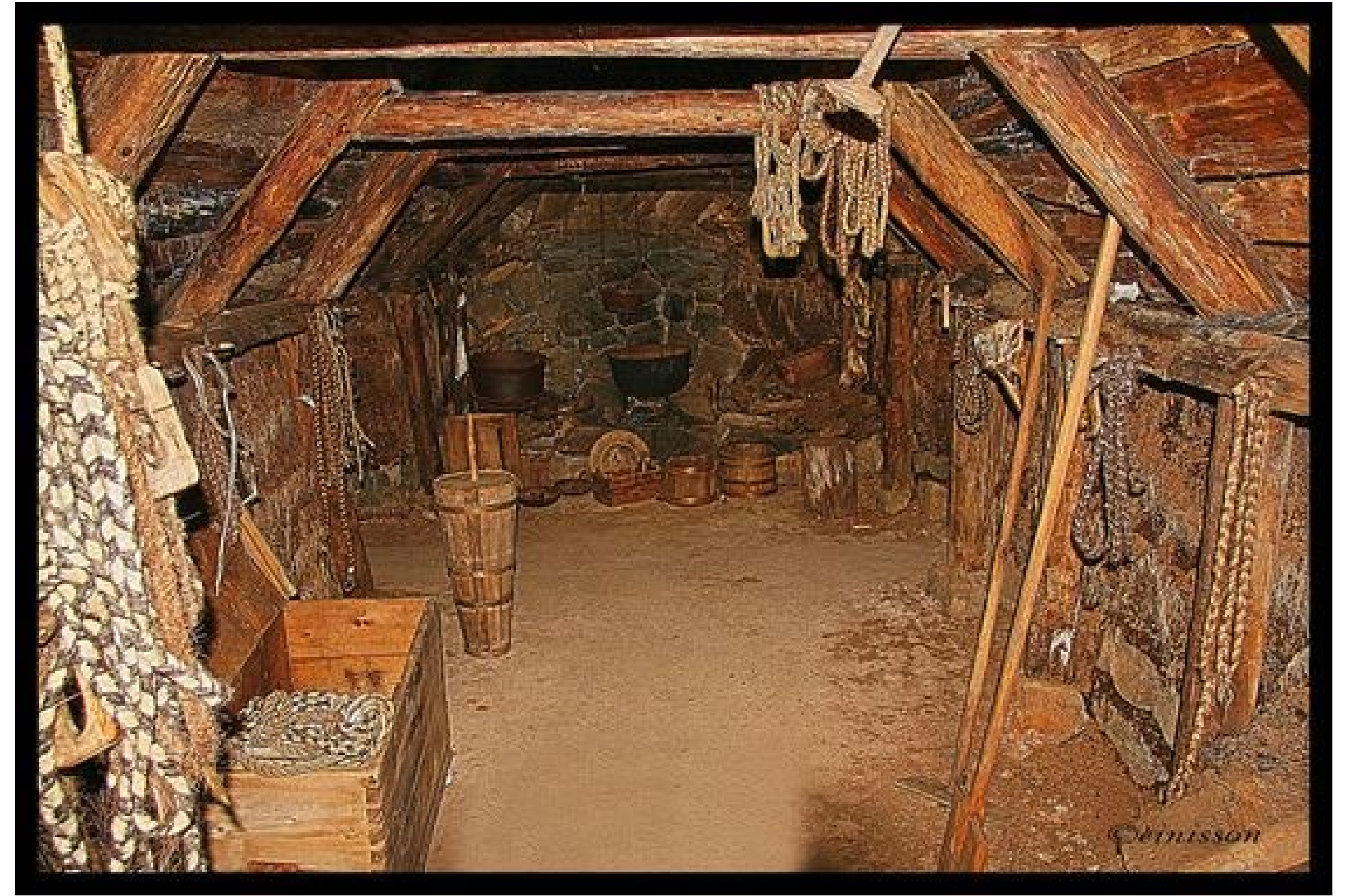
SECTION

B-Detaild 1:50

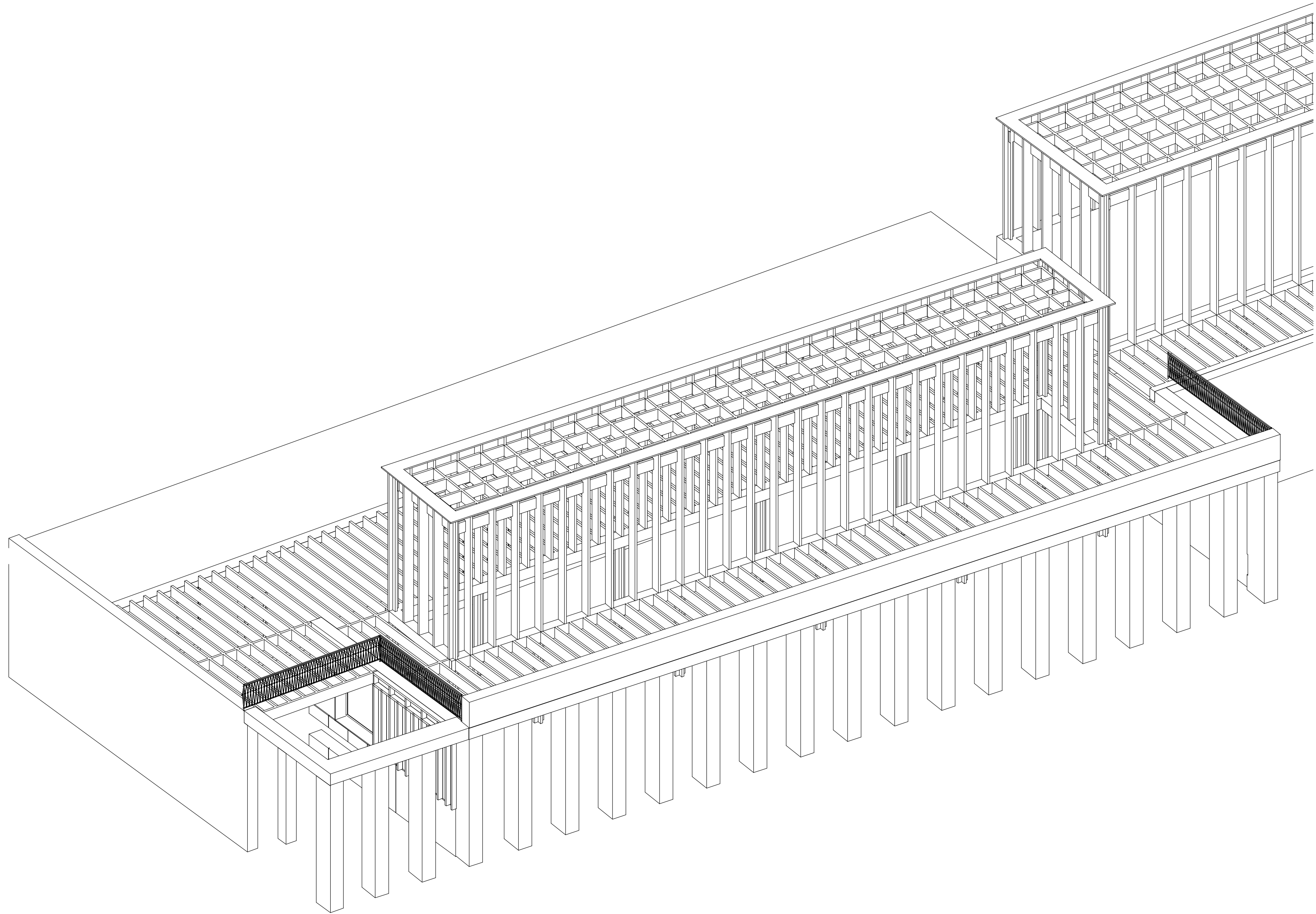


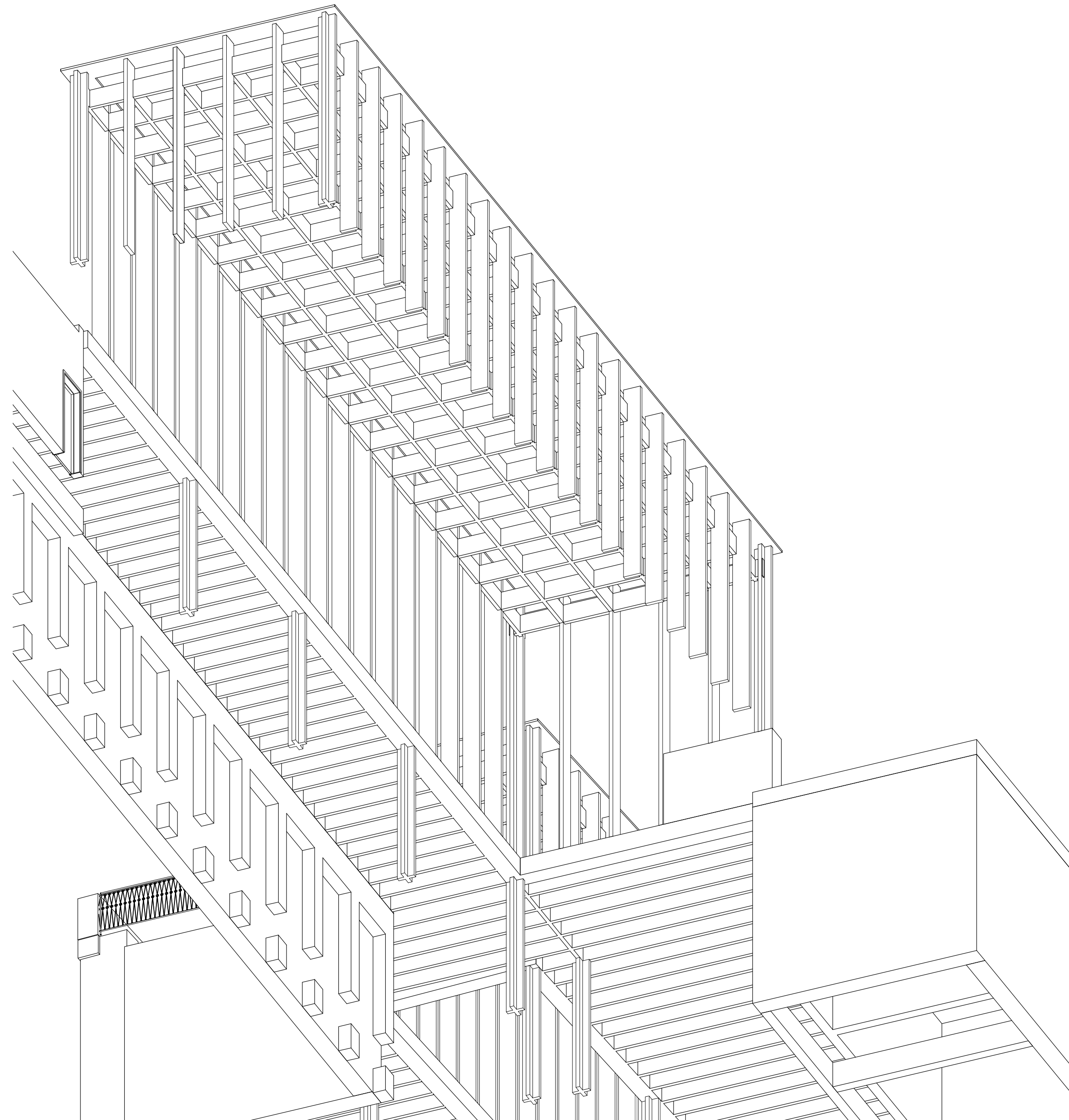


Source: <https://images.fineartamerica.com/images/artworkimages/mediumlarge/2/fishermans-hut-iceland-larry-jones.jpg>



Source: <https://i.pinimg.com/564x/16/ed/17/16ed1749ff28ab3f5ed2d42ac332fe8c.jpg>



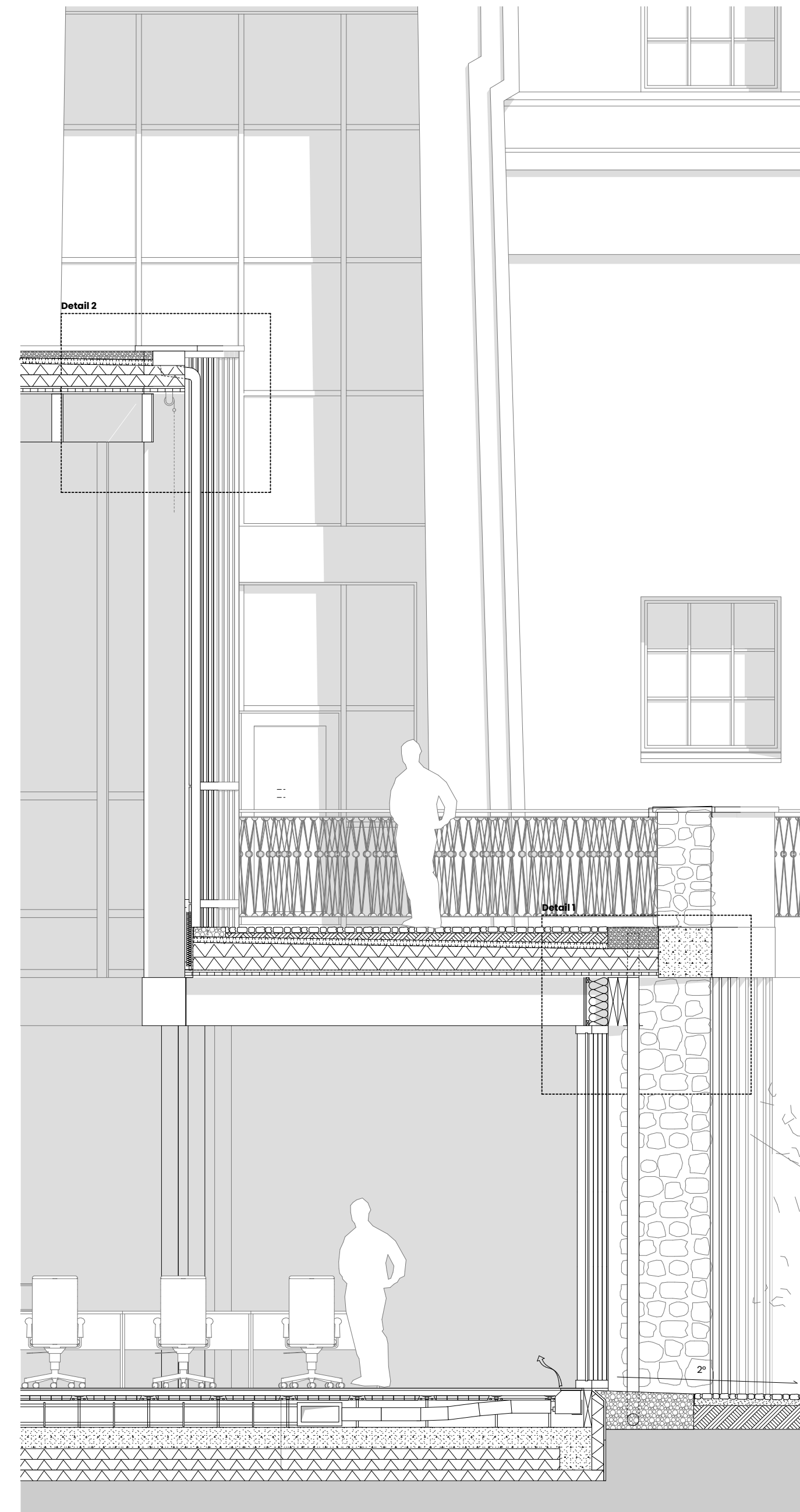


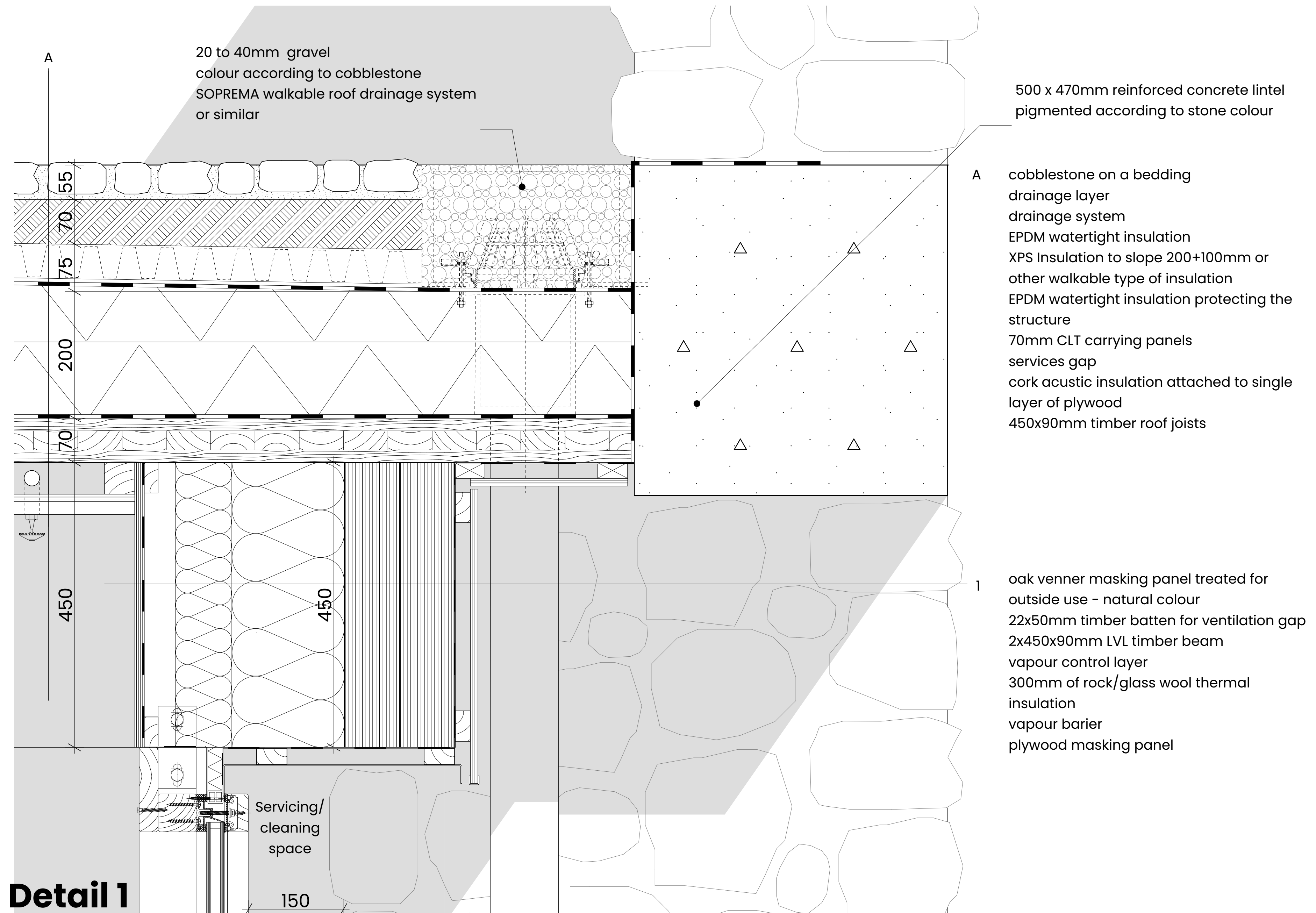




Source: <https://evabonniersdonationsnamnde/verk/sprangsten/>







20 to 40mm gravel
 colour according to cobblestone
 SOPREMA walkable roof drainage system
 or similar

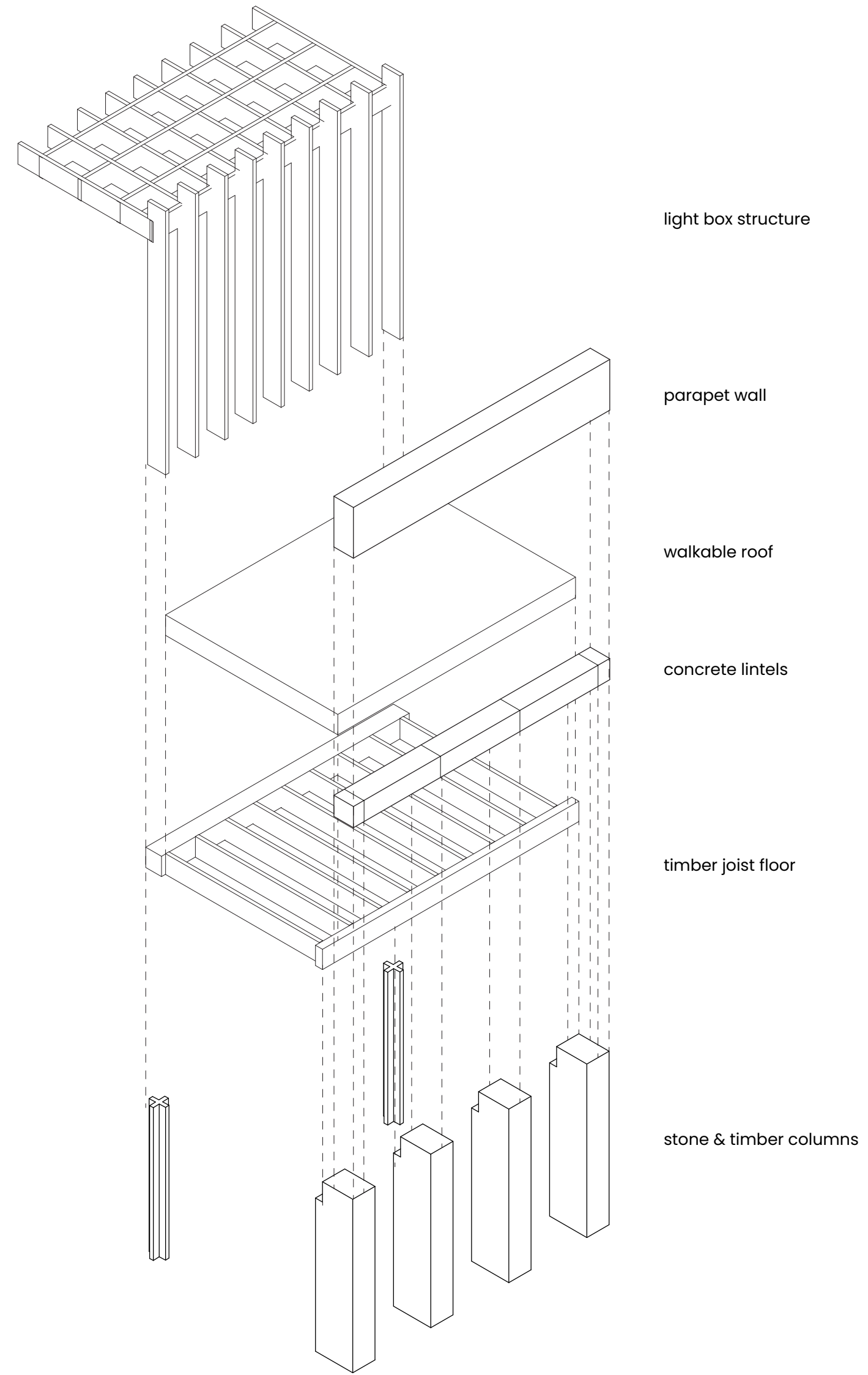
500 x 470mm reinforced concrete lintel
 pigmented according to stone colour

A
 cobblestone on a bedding
 drainage layer
 drainage system
 EPDM watertight insulation
 XPS Insulation to slope 200+100mm or
 other walkable type of insulation
 EPDM watertight insulation protecting the
 structure
 70mm CLT carrying panels
 services gap
 cork acoustic insulation attached to single
 layer of plywood
 450x90mm timber roof joists

1
 oak venner masking panel treated for
 outside use - natural colour
 22x50mm timber batten for ventilation gap
 2x450x90mm LVL timber beam
 vapour control layer
 300mm of rock/glass wool thermal
 insulation
 vapour barrier
 plywood masking panel

servicing/
 cleaning
 space

Detail 1



light box structure

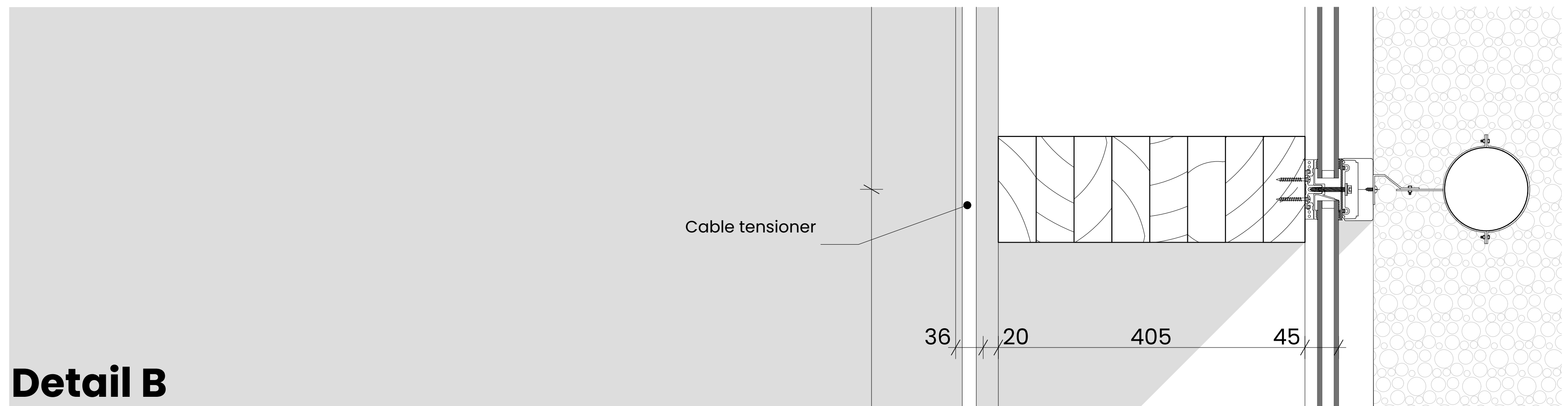
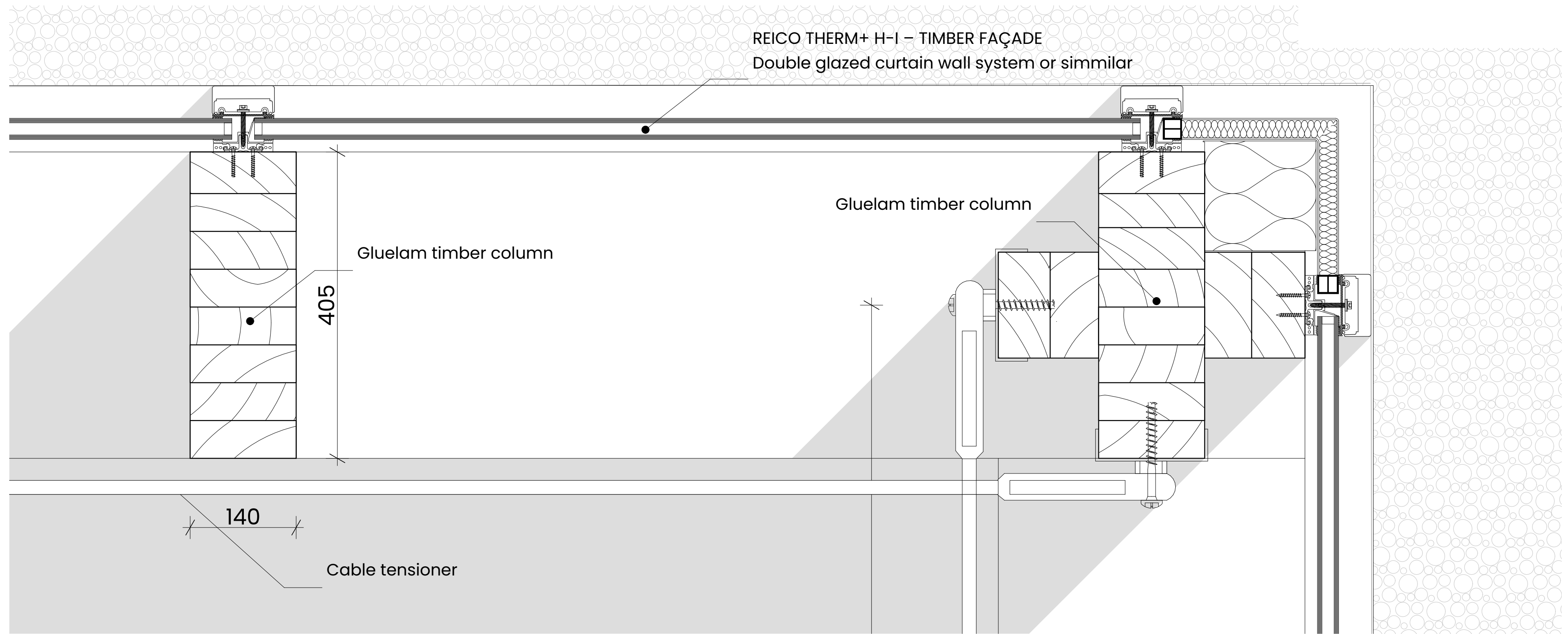
parapet wall

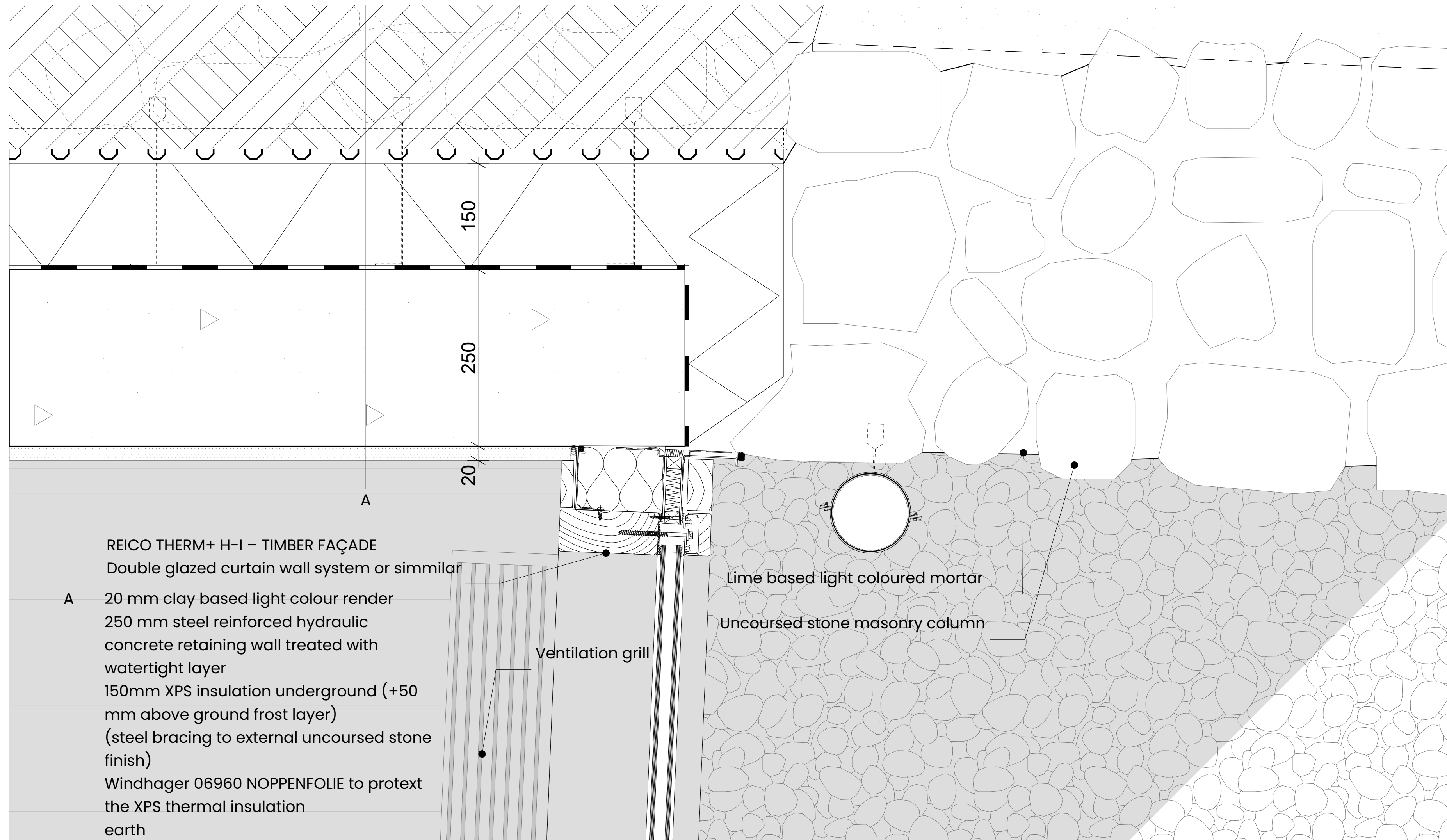
walkable roof

concrete lintels

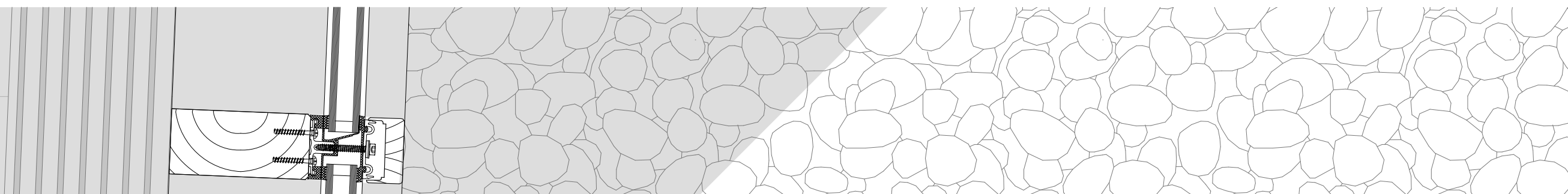
timber joist floor

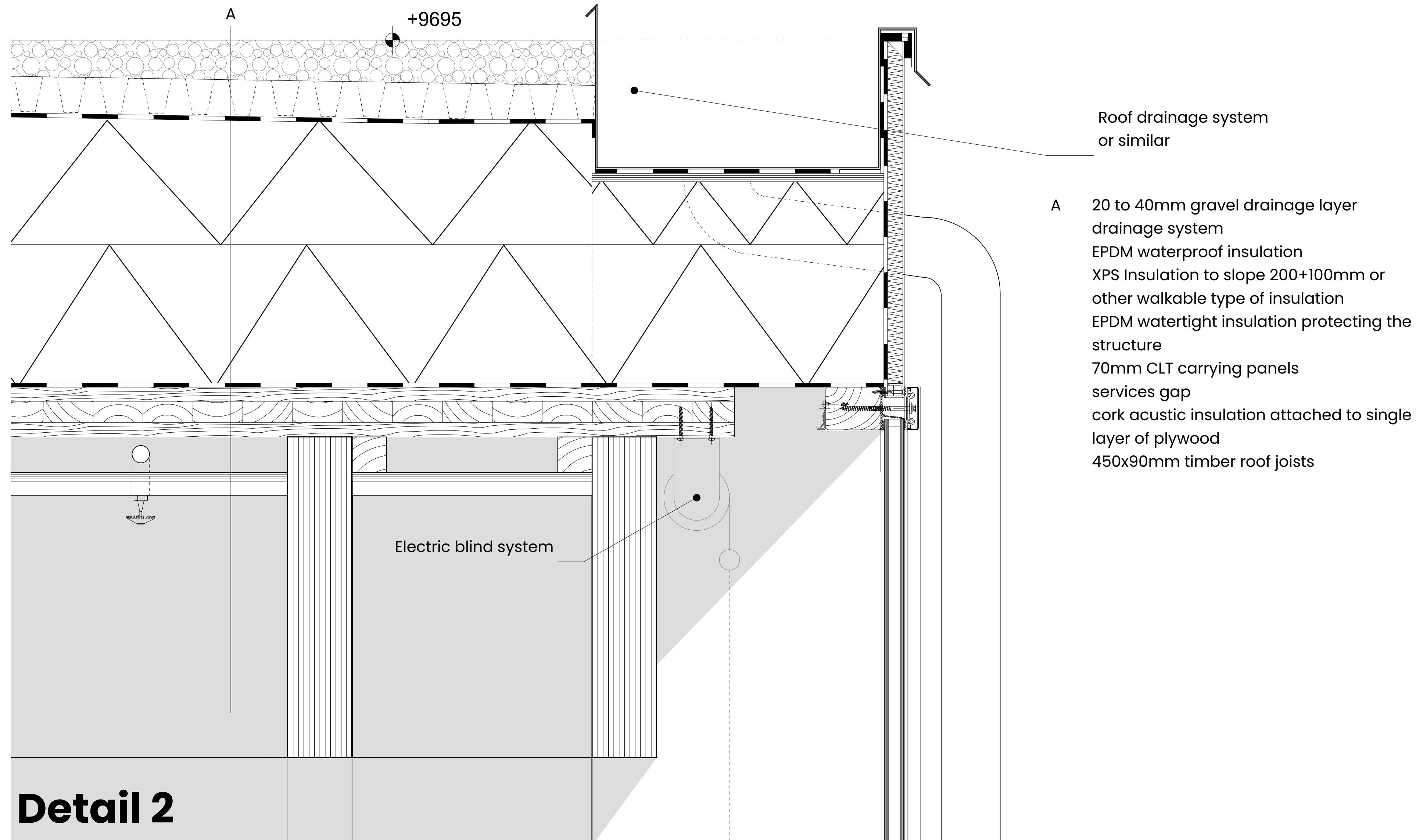
stone & timber columns

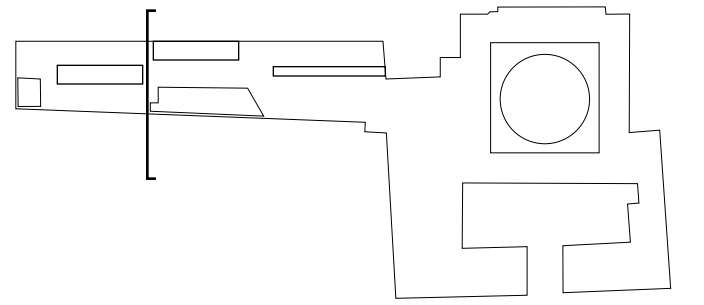




Detail A





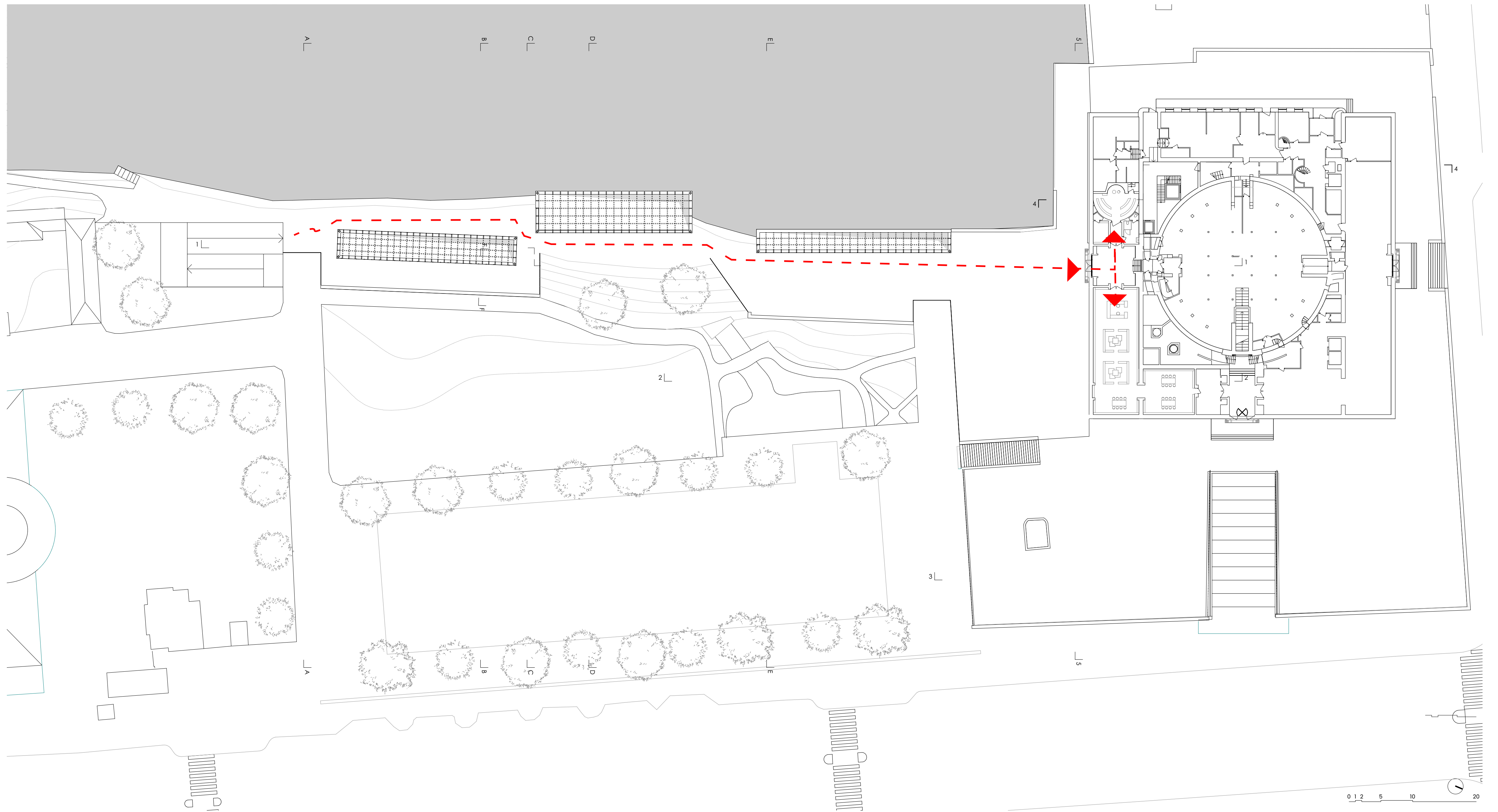


SECTION

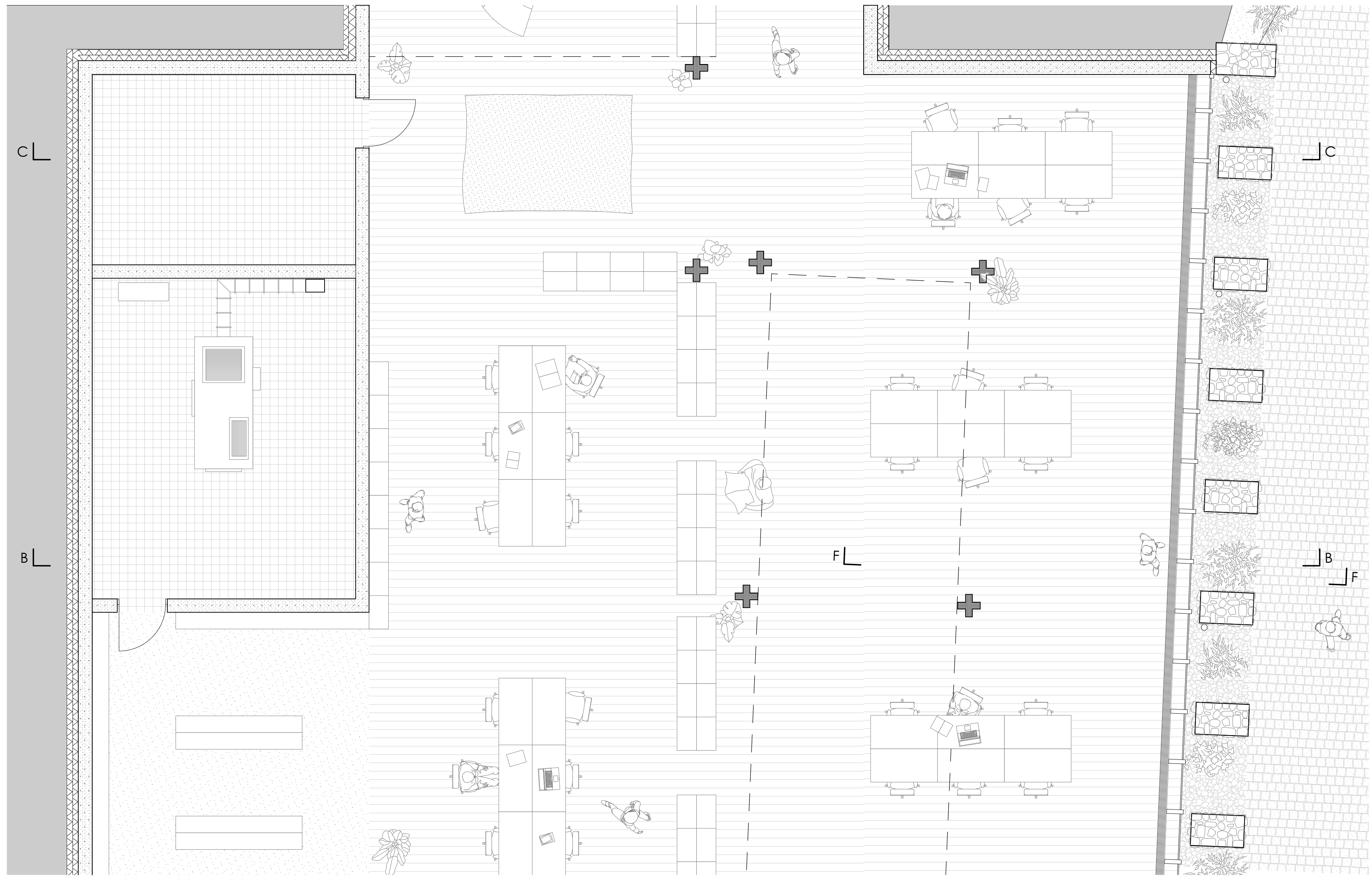
C

0 1 2 5 10 20

1:200



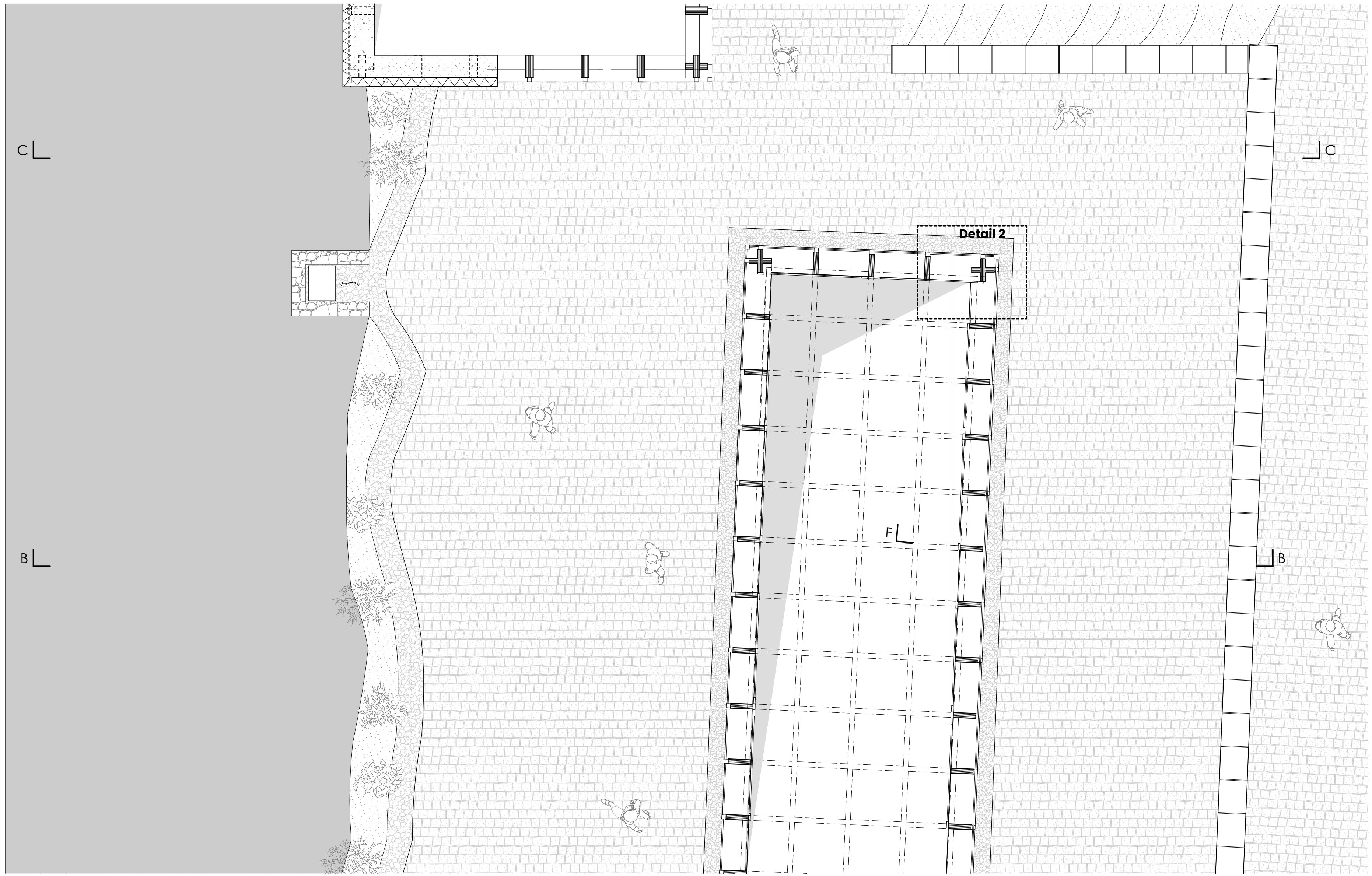




FLOOR PLAN

1:50

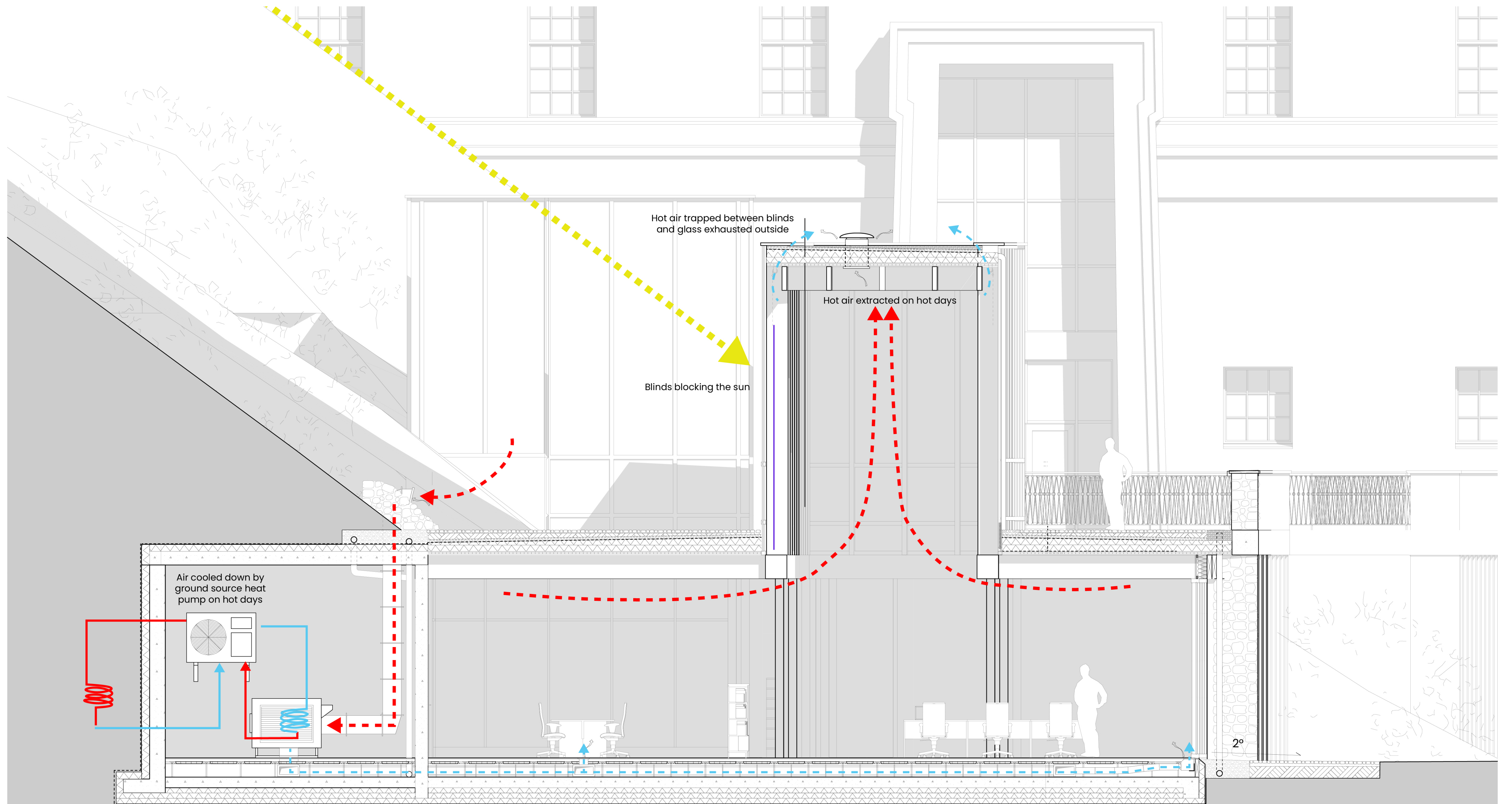
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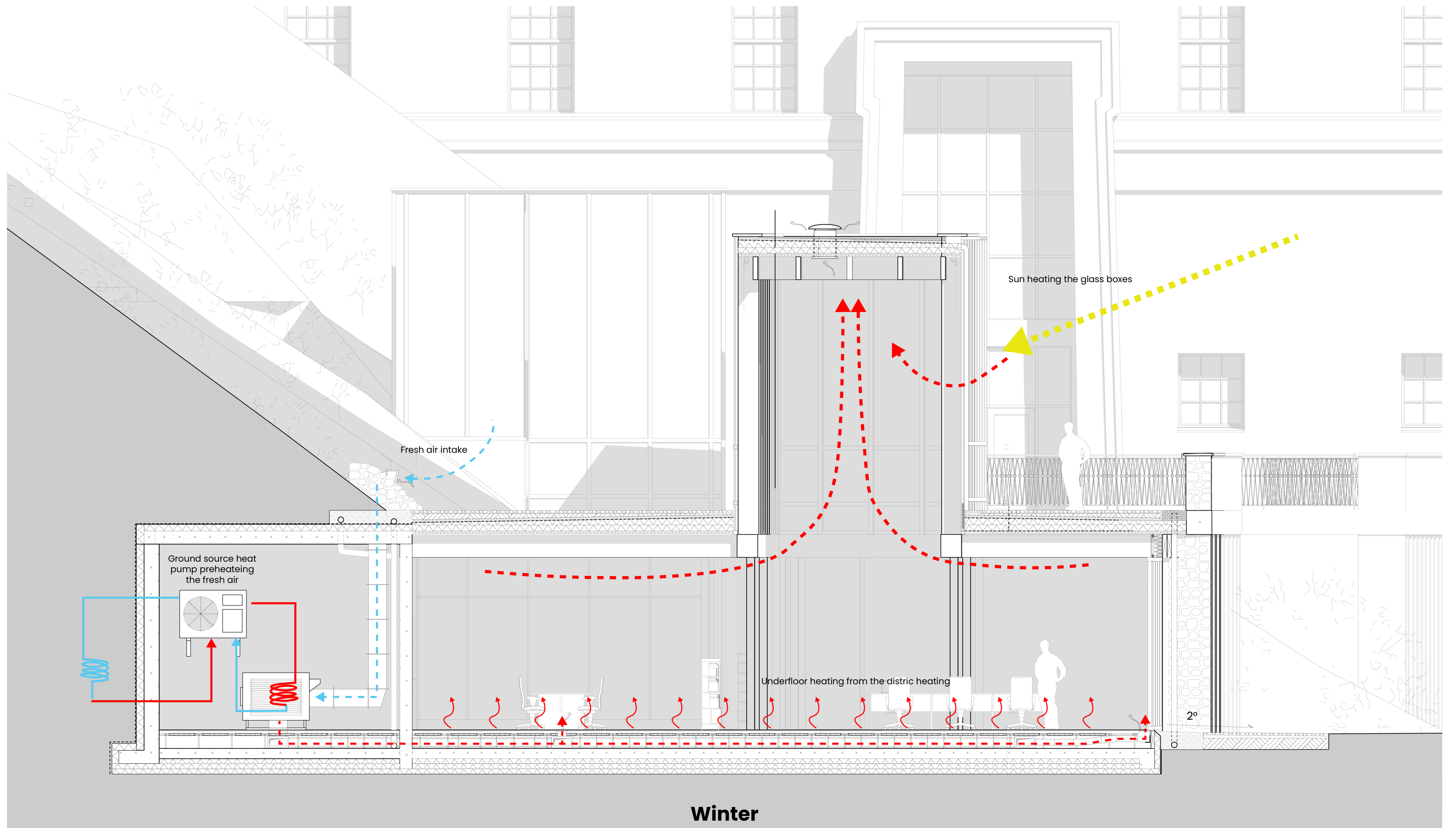
FLOOR PLAN THROUGH LIGHTBOXES

1:50

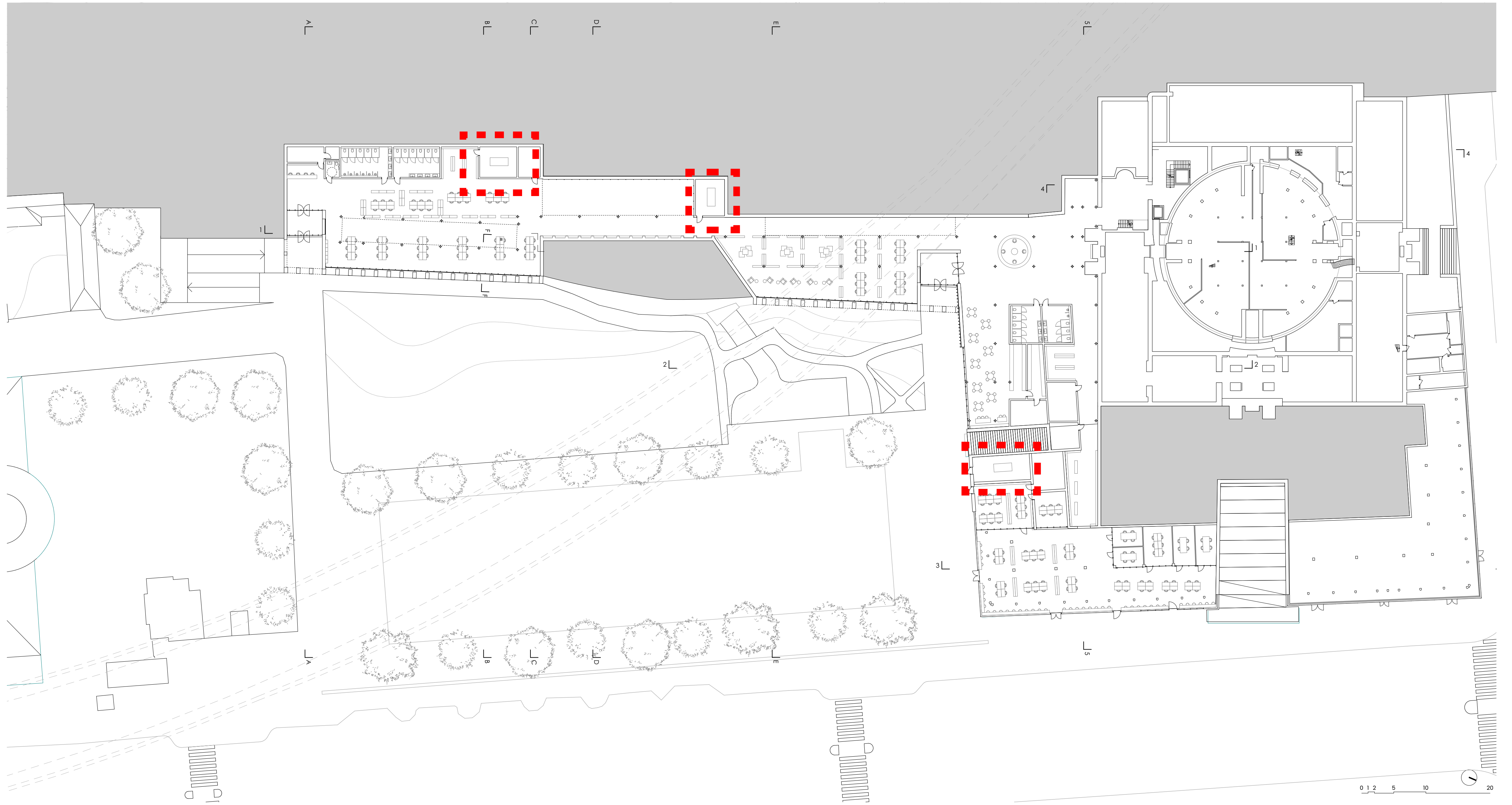
1:50



Summer

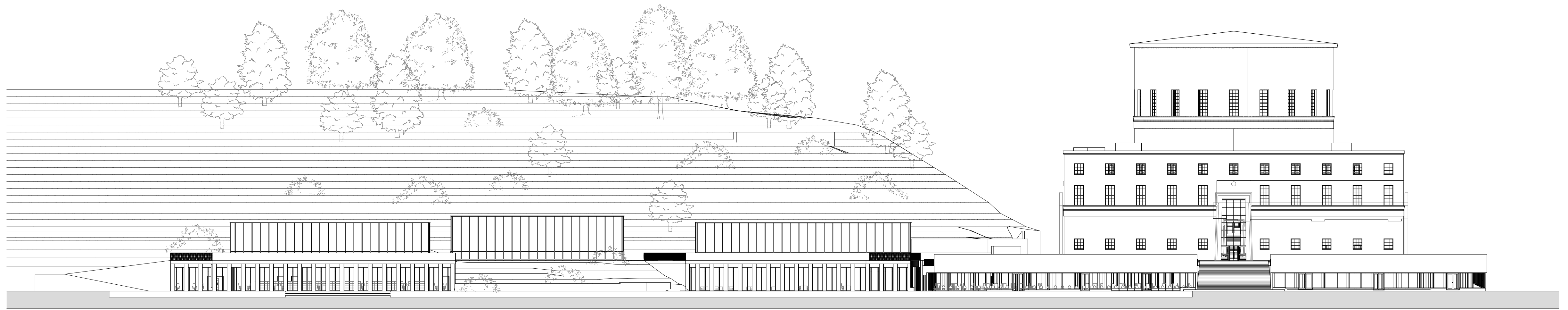


Winter



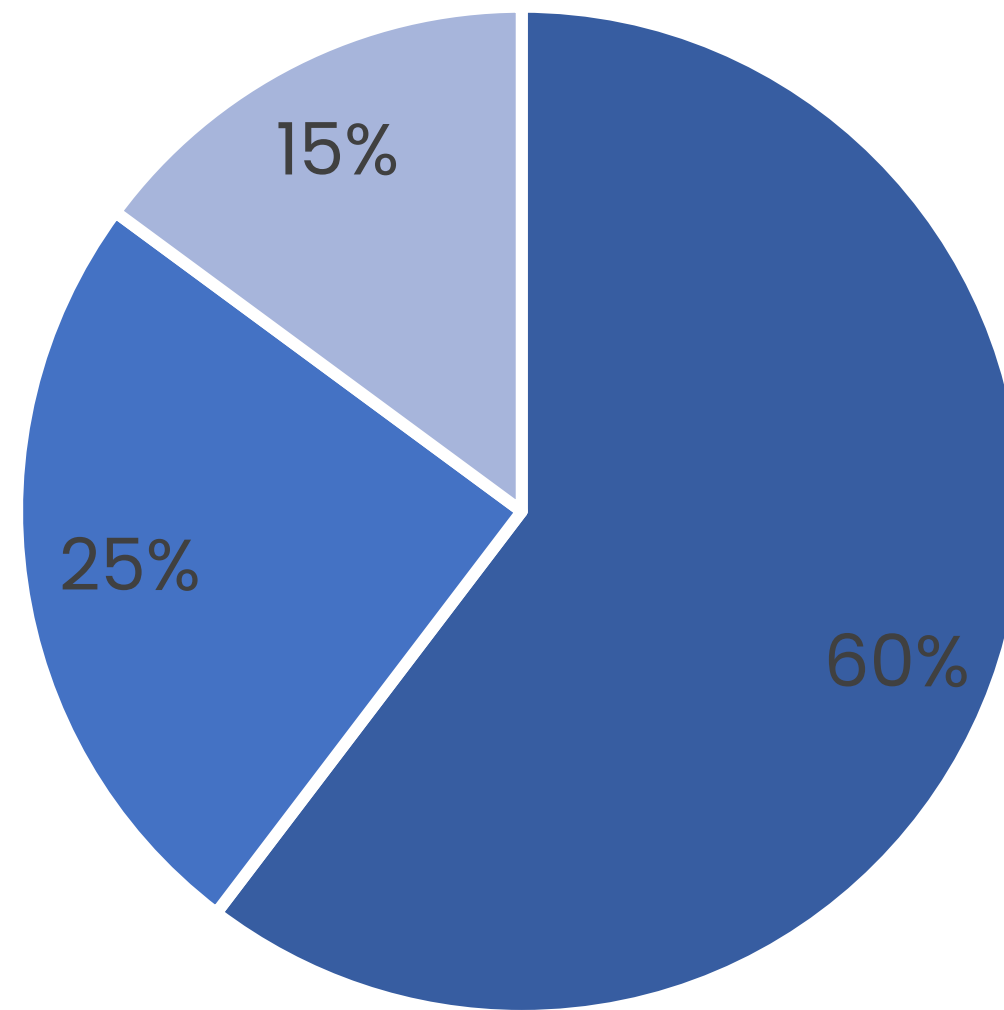


0 1 2 5 10 20



0 1 2 5 10 20

My proposal



■ Administration

■ Public

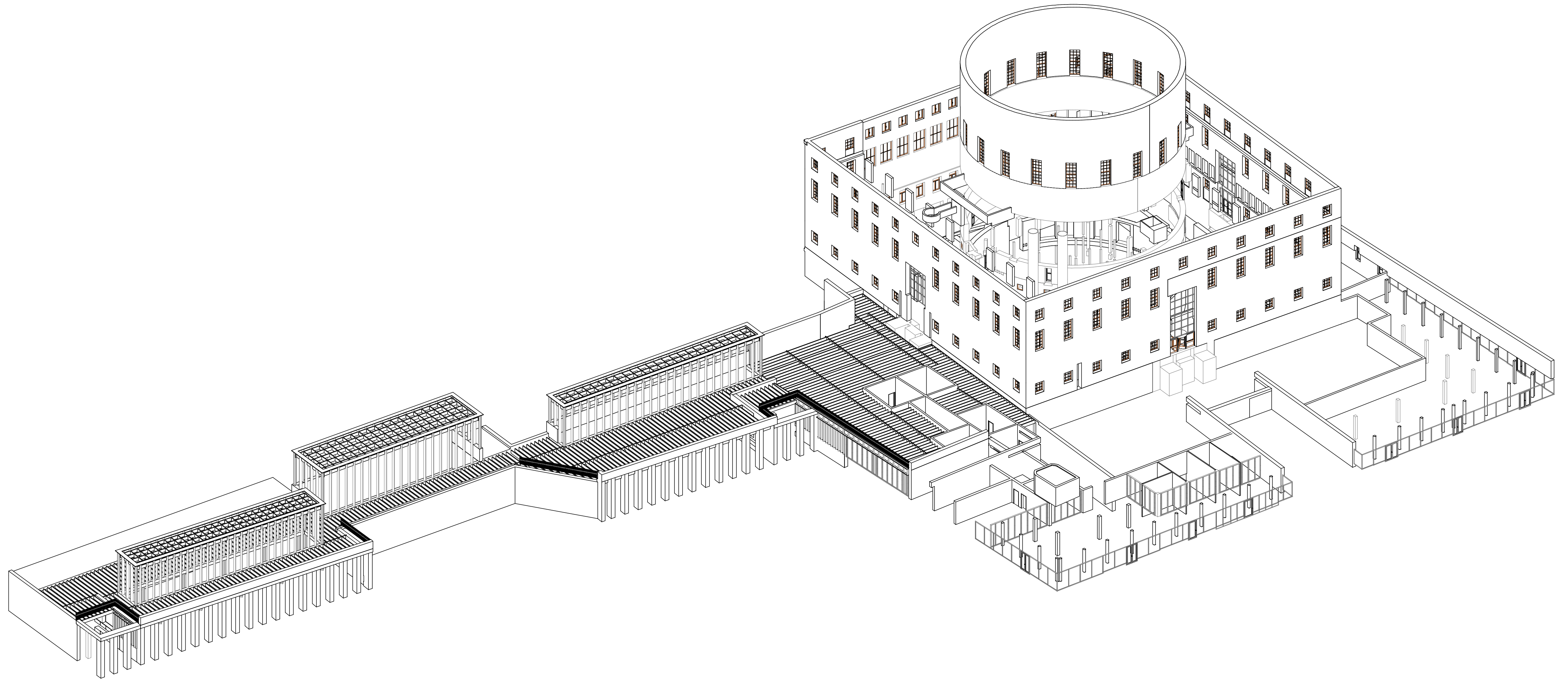
■ Depositories

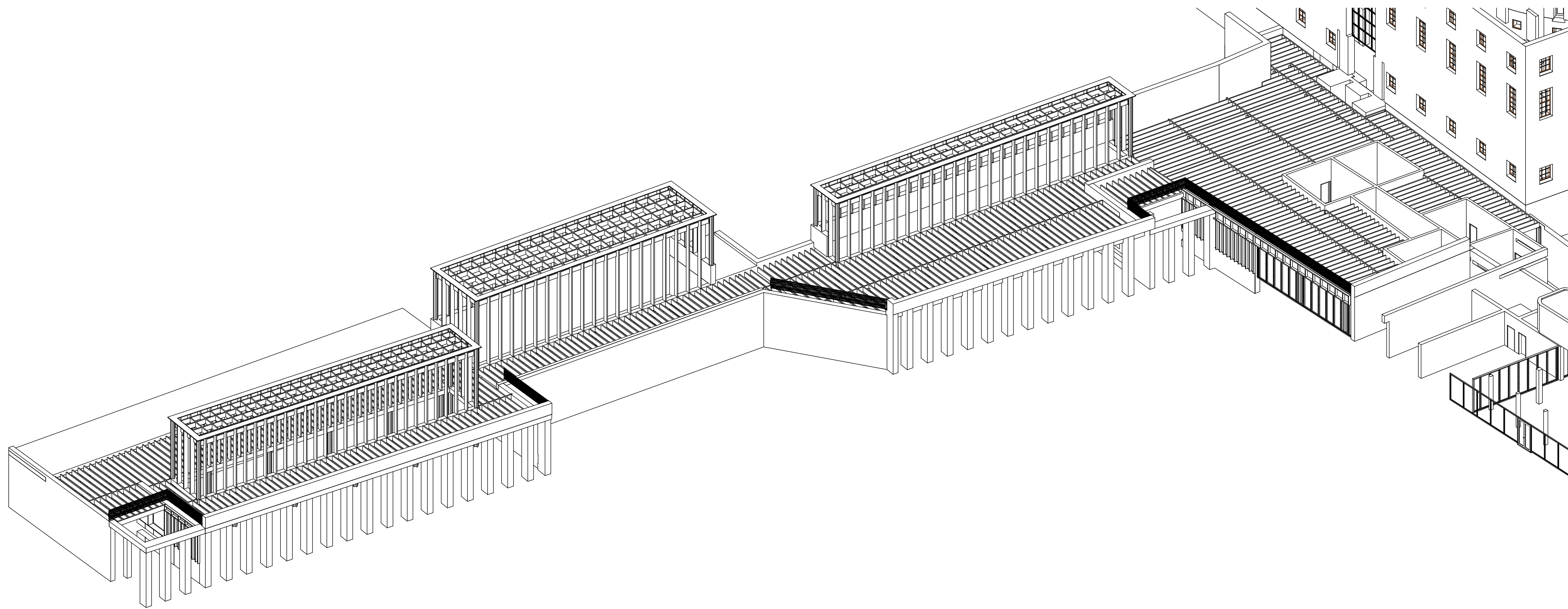
Total area = 10 383 sqm

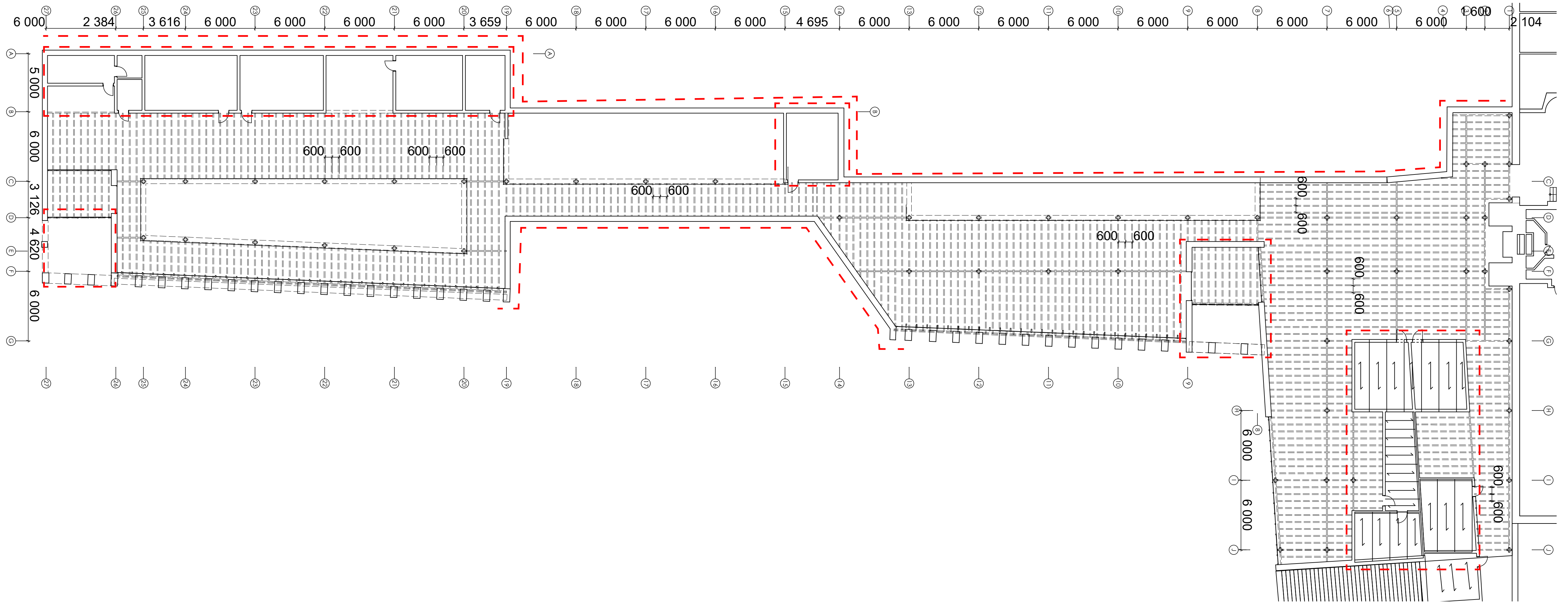


Thank You.

Appendix.







FINNWOOD 2.3.1 - C:\metsawood\finnwood_SE_23\projects\columns_7M.s01

File Databases Settings Help

Active project: No active project

MetsäWood

Welcome MODEL Loading DESIGN Holes/cuttings Additional results PRINTOUTS

PROFILE SELECTION

Shape of cross-section: Rectangle

Material: CE L40c

List of cross-section sizes: c/c [mm]: 140x405 | 6000

MATERIAL: CE L40c
SHAPE: Rectangle
140x405
WIDTH B: 140 mm
HEIGHT H: 405 mm
A: 56700 mm²
I_y: 775018125 mm⁴
W_y: 3827250 mm³
SPACING c/c: 6000 mm
WEIGHT: 28.4 kg/m
LENGTH L: 7000 mm

Diagram:

Buttons: Find next suitable (from the start), Find next suitable (forward of the active), Previous, Next, Find required spacing

DESIGN PARAMETERS

Service class: 1
Consequence class: CC2 (Gamma,d=0.91)

DESIGN RESULTS

Total utilization rate = 74.0 %

- STRUCTURAL DESIGN (74 %)
- ULTIMATE LIMIT STATE (ULS) (74 %)
 - Compression: 239.34 kN, (74 %), x = 1100 mm
- SERVICEABILITY LIMIT STATE (SLS) (0 %)
 - Deflection checking: (0%)
 - Span 1 (0%)
 - Span 2 (0%)
 - Right cantilever (0%)

NOTE! Please check all design settings (ULS and SLS) before running the design.

Expiration date: 31.12.2025

Column | CE L40c 140x405 (c/c 6000, L=7000) | Floor beam/slab

Columns

FINNWOOD 2.3.1 - C:\metsawood\finnwood_SE_23\projects\BEAM.s01

File Databases Settings Help

Active project: No active project

MetsäWood

Welcome MODEL Loading DESIGN Holes/cuttings Additional results PRINTOUTS

PROFILE SELECTION

Shape of cross-section: Rectangle

Material: CE L40c

List of cross-section sizes: c/c [mm]: 90x450 | 600

MATERIAL: CE L40c
SHAPE: Rectangle
90x450
WIDTH B: 90 mm
HEIGHT H: 450 mm
A: 40500 mm²
I_y: 683437500 mm⁴
W_y: 3037500 mm³
WEIGHT: 20.2 kg/m
LENGTH L: 6000 mm

Diagram:

Buttons: Find next suitable (from the start), Find next suitable (forward of the active), Previous, Next, Find required spacing, Find required span length

DESIGN PARAMETERS

Service class: 1
Consequence class: CC2 (Gamma,d=0.91)

DESIGN RESULTS

Total utilization rate = 98.2 %

- STRUCTURAL DESIGN (98 %)
- ULTIMATE LIMIT STATE (ULS) (78 %)
 - Shear (V_z): 15.93 kN, (31 %), x = 6000 mm
 - Bending (M_y): 25.12 kNm, (41 %), x = 3000 mm (without korit)
 - Bending, support 1: 25.12 kNm, (41 %), x = 3000 mm
 - Bearing, support 2: (78 %), bearing load factor = 2.92
- SERVICEABILITY LIMIT STATE (SLS) (98 %)
 - Deflection checking: (58%)
 - Span 1 (58%)
 - Vibration checking: (98%)
 - Span 1 (98%)

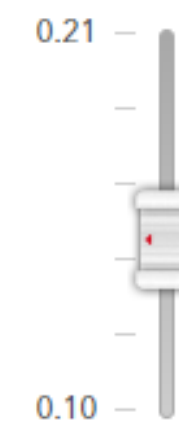
NOTE! Please check all design settings (ULS and SLS) before running the design.

Expiration date: 31.12.2025

Floor beam/slab | CE L40c 90x450 (c/c 600, L=6000) |

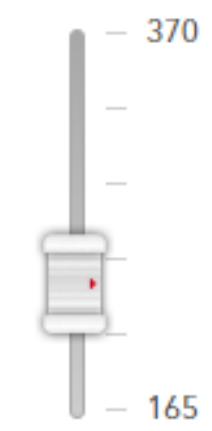
Beams

Change U-value
[mm]



U-value
0.15
[W/m²K]

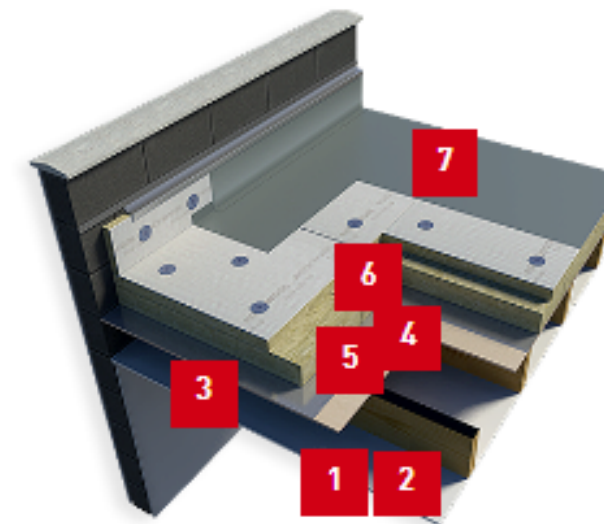
Change thickness
[mm]



Insulation thickness
235 mm

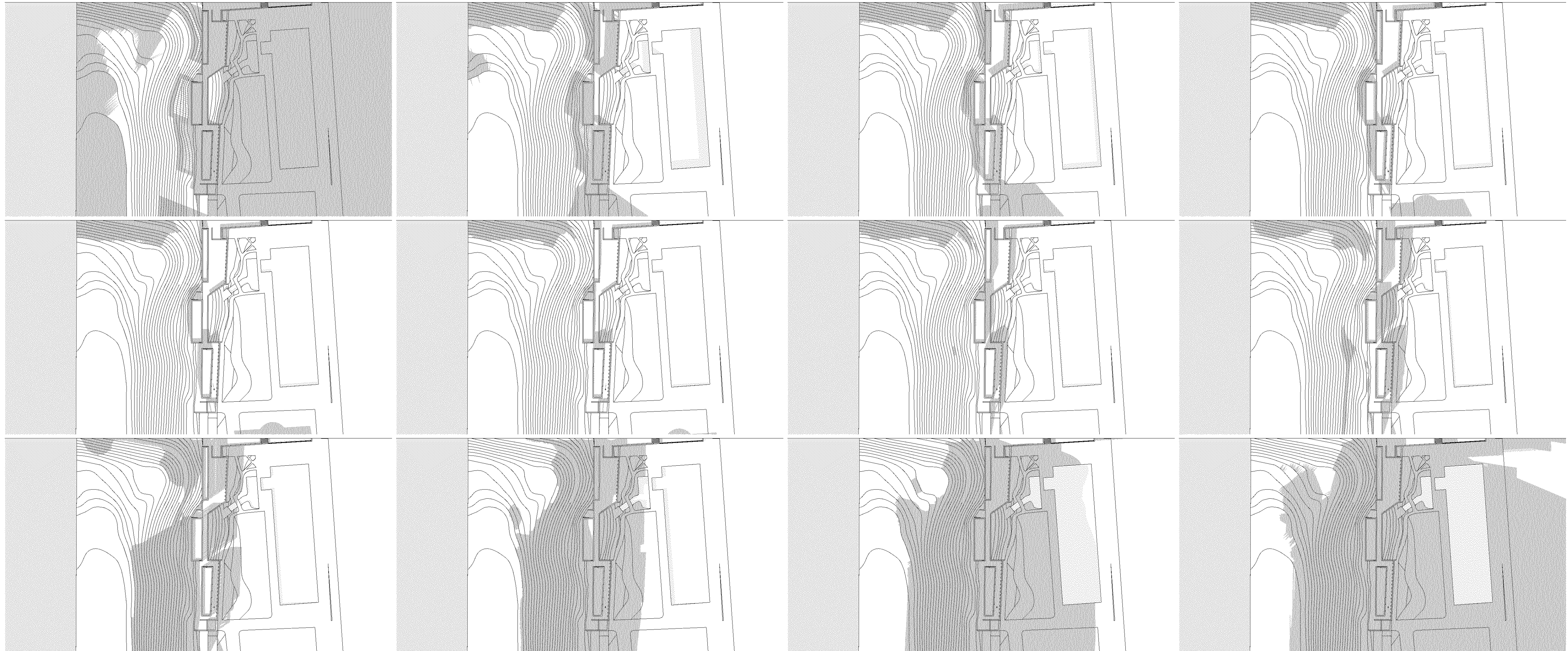
Construction build-up:

1. Gypsum plastering (1300) (3 mm)
2. Standard Wallboard Plasterboard (12.5 mm)
3. Unventilated air layer (100 mm)
4. Plywood [500 kg/m³] (18 mm)
5. Polyethylene/polythene, low density 0.15 mm (0.15 mm)
6. HARDROCK® Multi-Fix (DD) (85 mm + 150 mm)
7. Single Ply Membrane (1.2 mm)



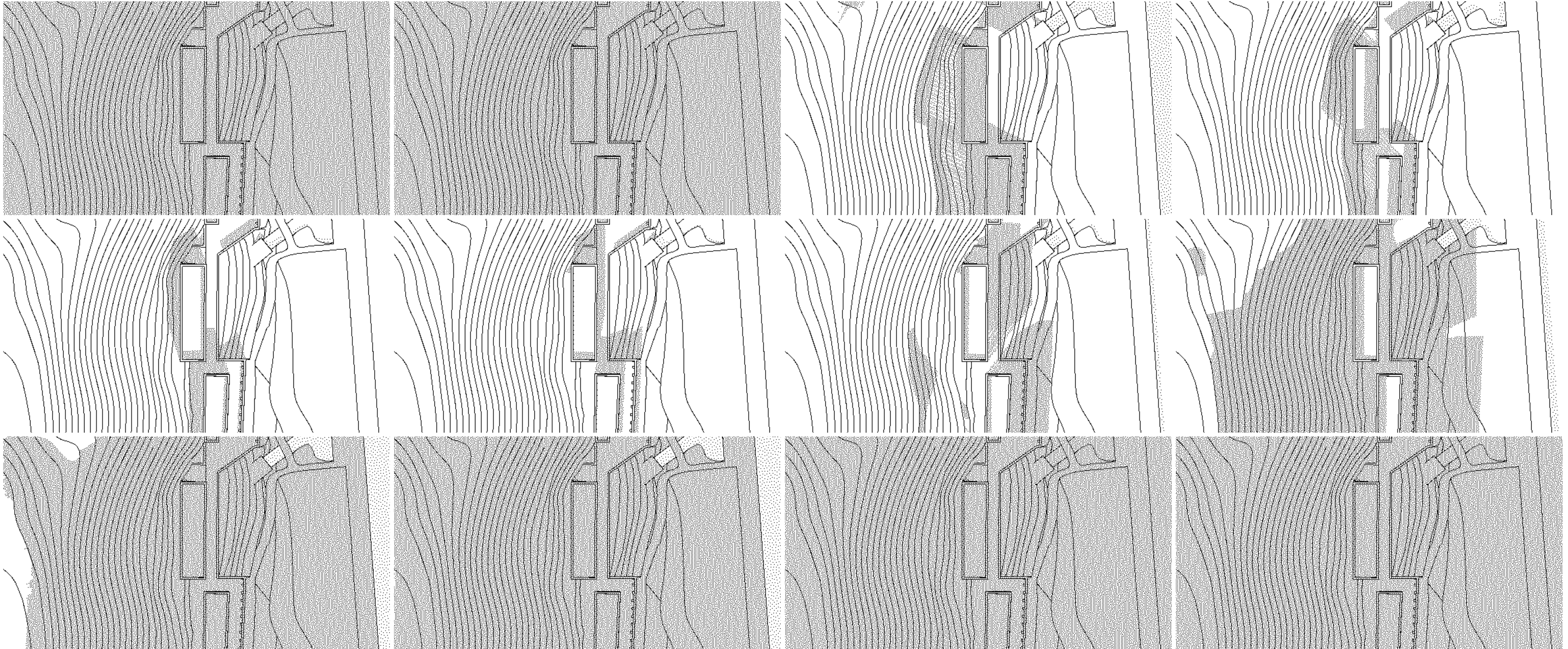
Roof u-value

EQUINOX



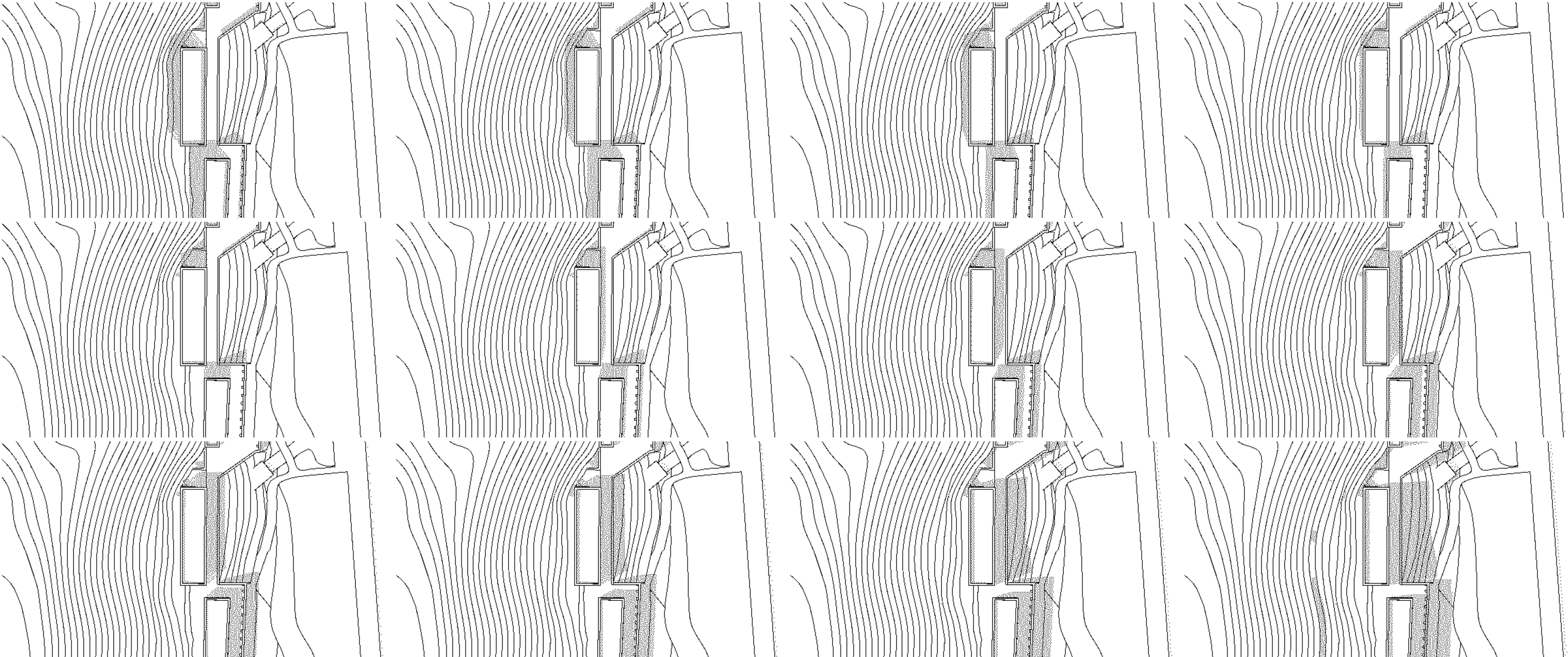
From sunrise to sunset with 60 min interval

SUMMER SOLSTICE

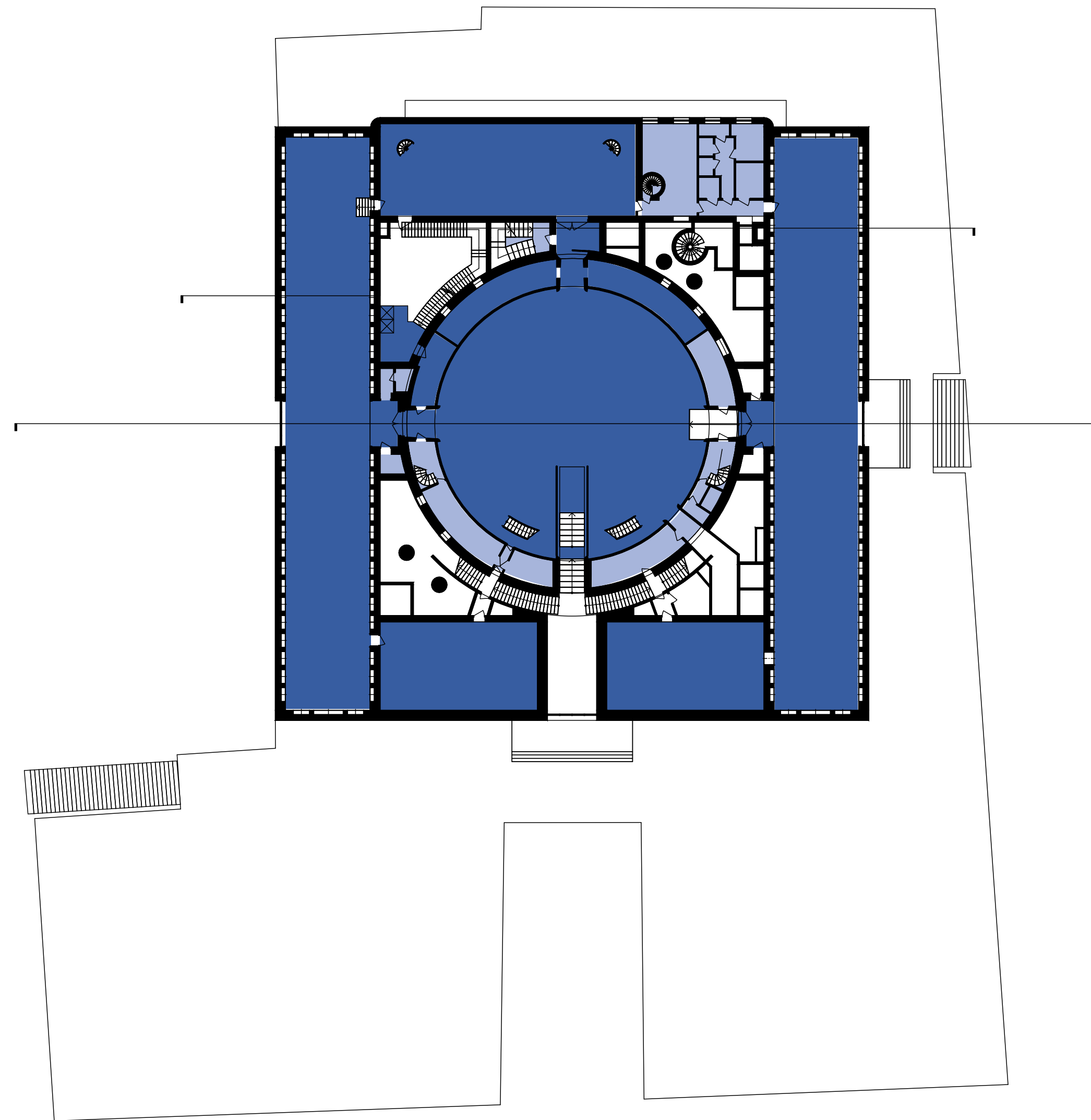


From sunrise to sunset with 90 min interval

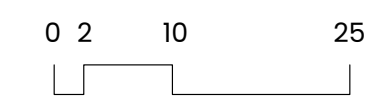
WINTER SOLSTICE



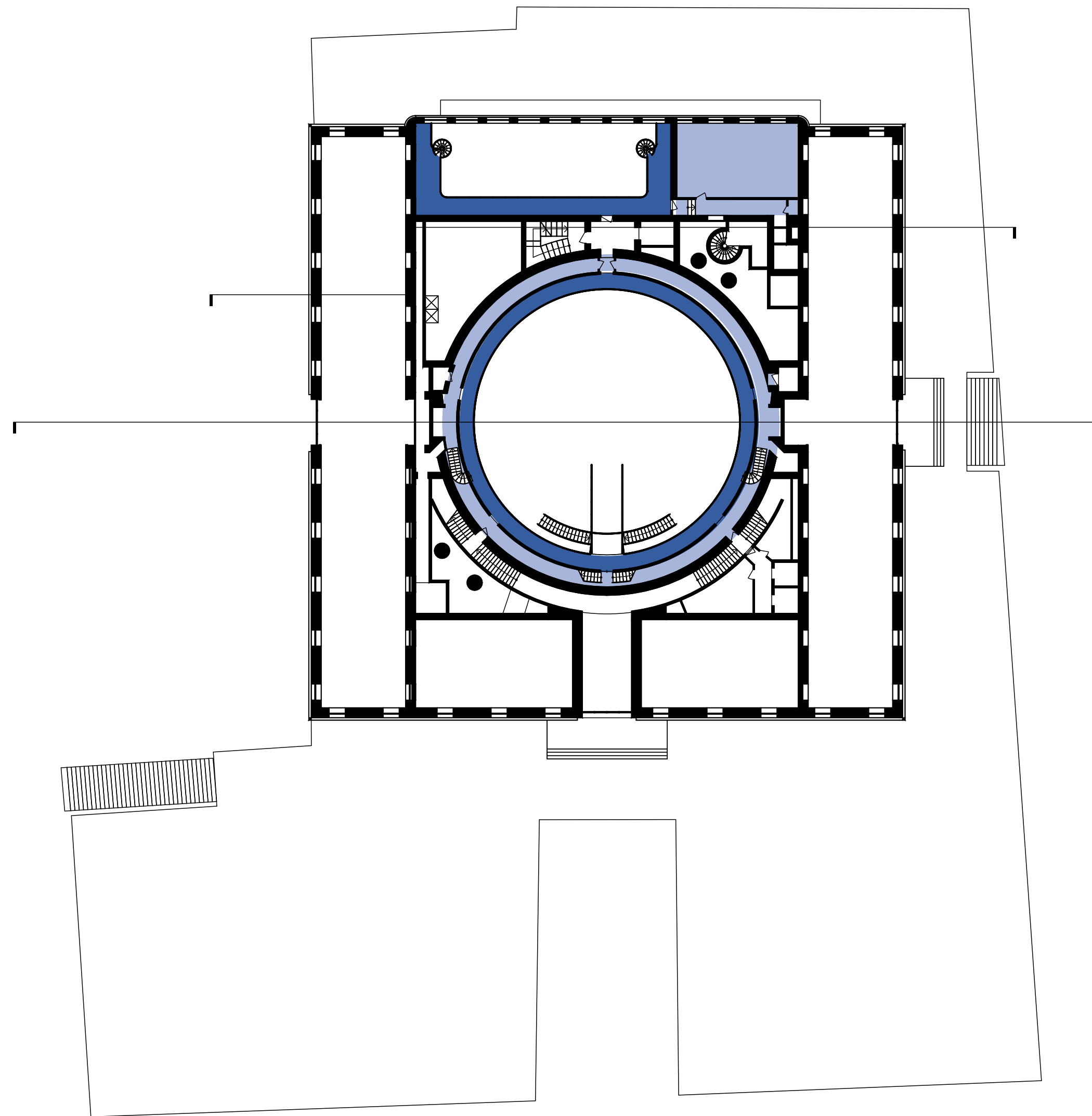
From sunrise to sunset with 32 min interval



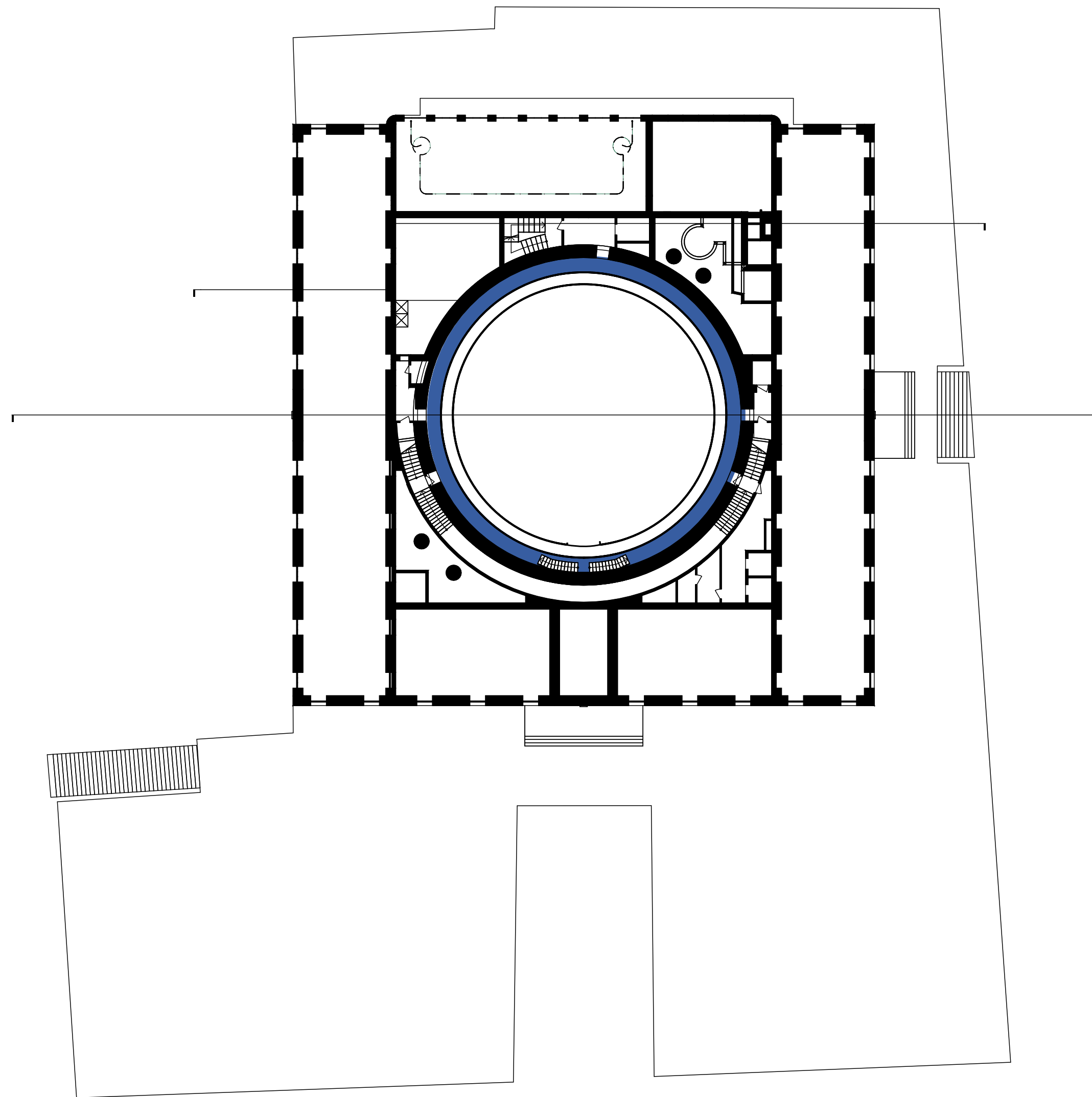
- Public
- Administration
- Depositories
- Change of function



- Public
- Administration
- Depositories
- Change of function

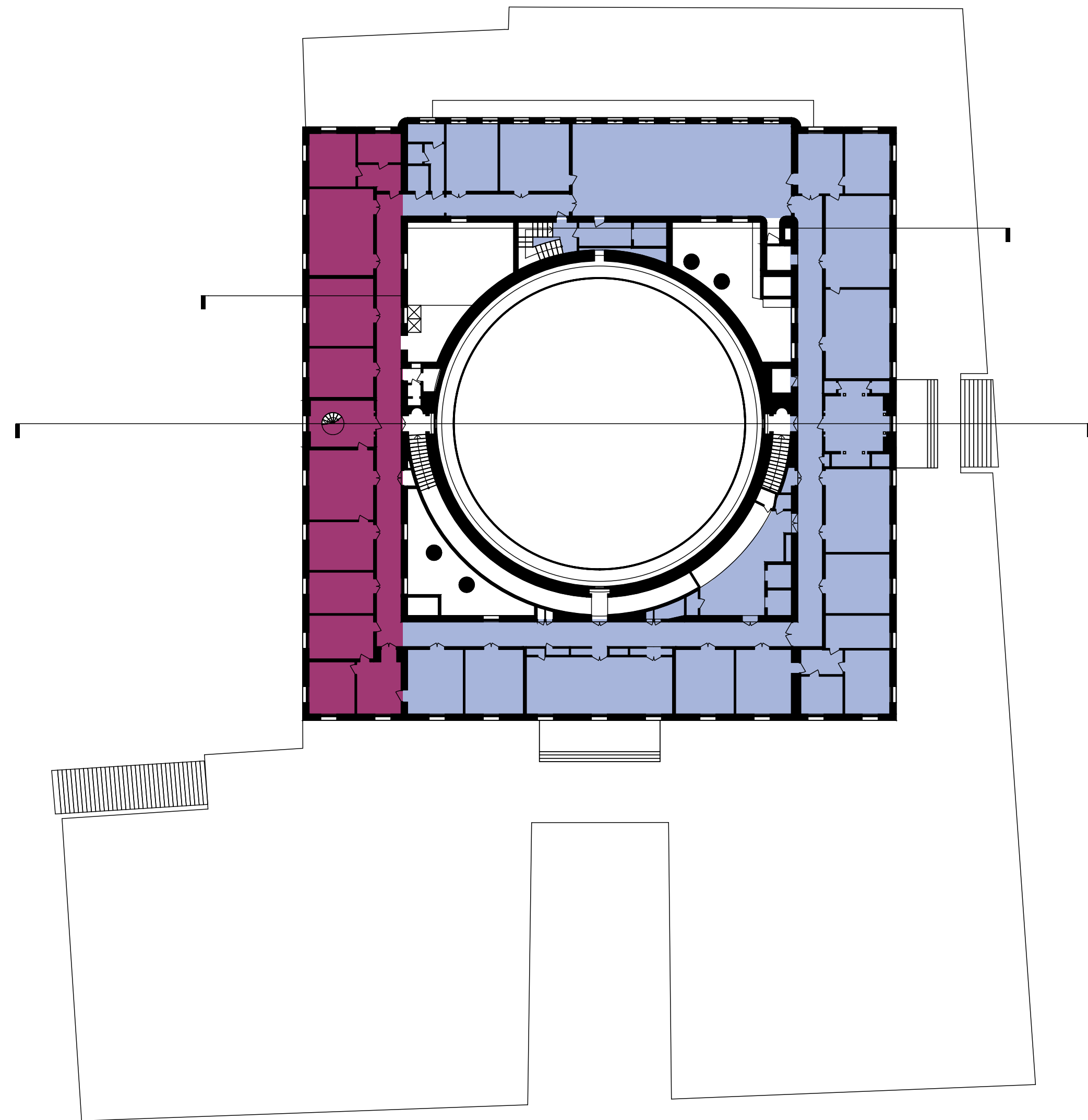


0 2 10 25

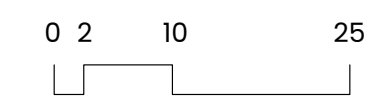


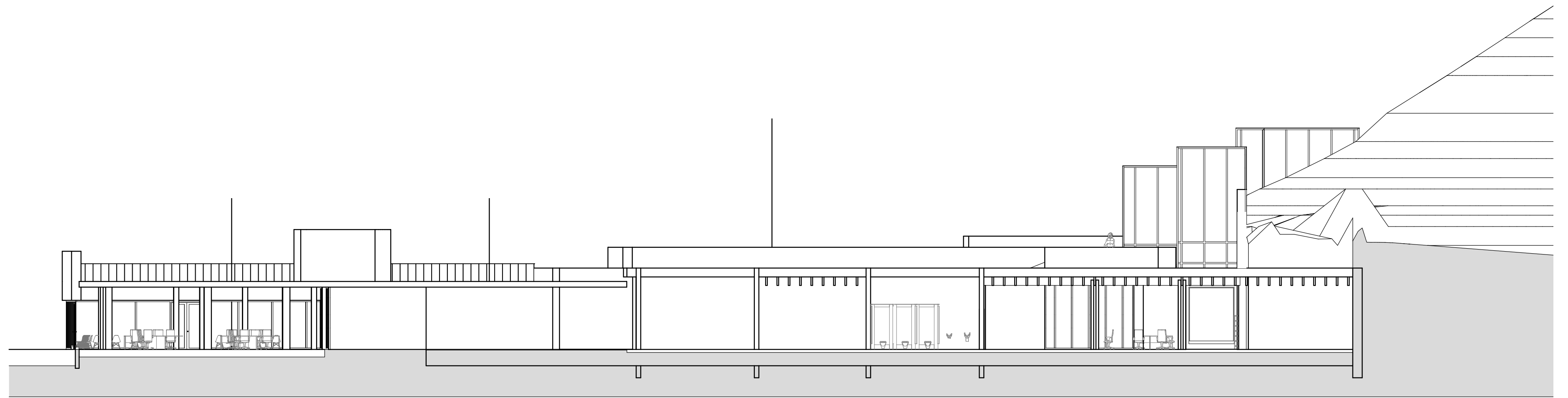
- Public
- Administration
- Depositories
- Change of function

0 2 10 25



- Public
- Administration
- Depositories
- Change of function





0 1 2 5 10 20