



MATERIAL VAULT

Library of Materials

complex  projects



student

Kalina Matova
5673593

07/11/2024

Fall Semester

COMPLEX PROJECTS

Berlin studio
AR3CP100

Research Paper

AR3A010

chair

Kees Kaan

CP coordinator

Hrvoje Smidihen

tutors

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Rico Heykant

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Instagram

[https://www.instagram.com/
cp.complexprojects/](https://www.instagram.com/cp.complexprojects/)

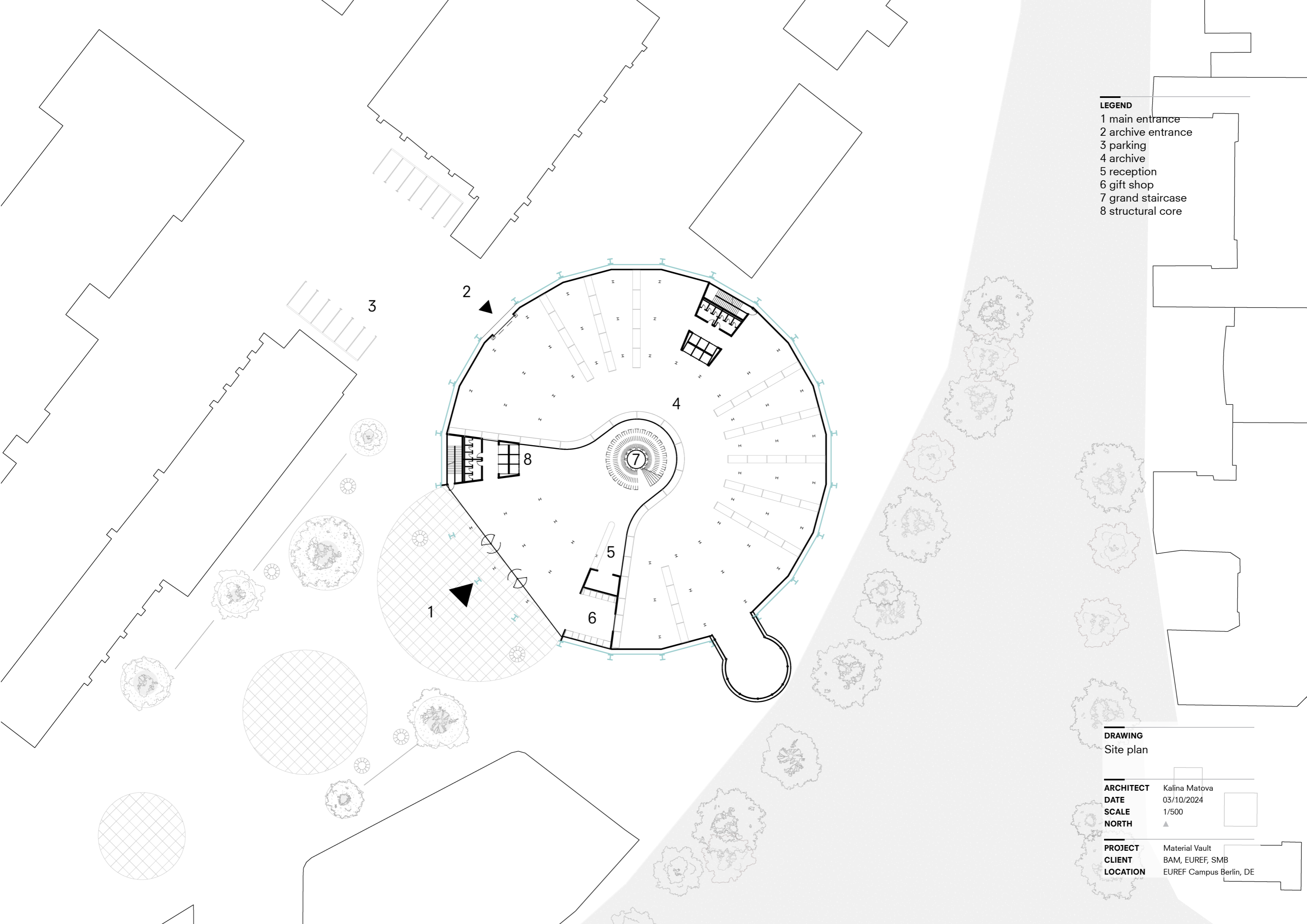
website

[https://www.tudelft.nl/bk/over-faculteit/
afdelingen/architecture/organisatie/disciplines/
complex-projects/](https://www.tudelft.nl/bk/over-faculteit/afdelingen/architecture/organisatie/disciplines/complex-projects/)

facebook

[https://www.facebook.com/CP_Complex-
Projects-422914291241447](https://www.facebook.com/CP_Complex-Projects-422914291241447)

DRAWING SET

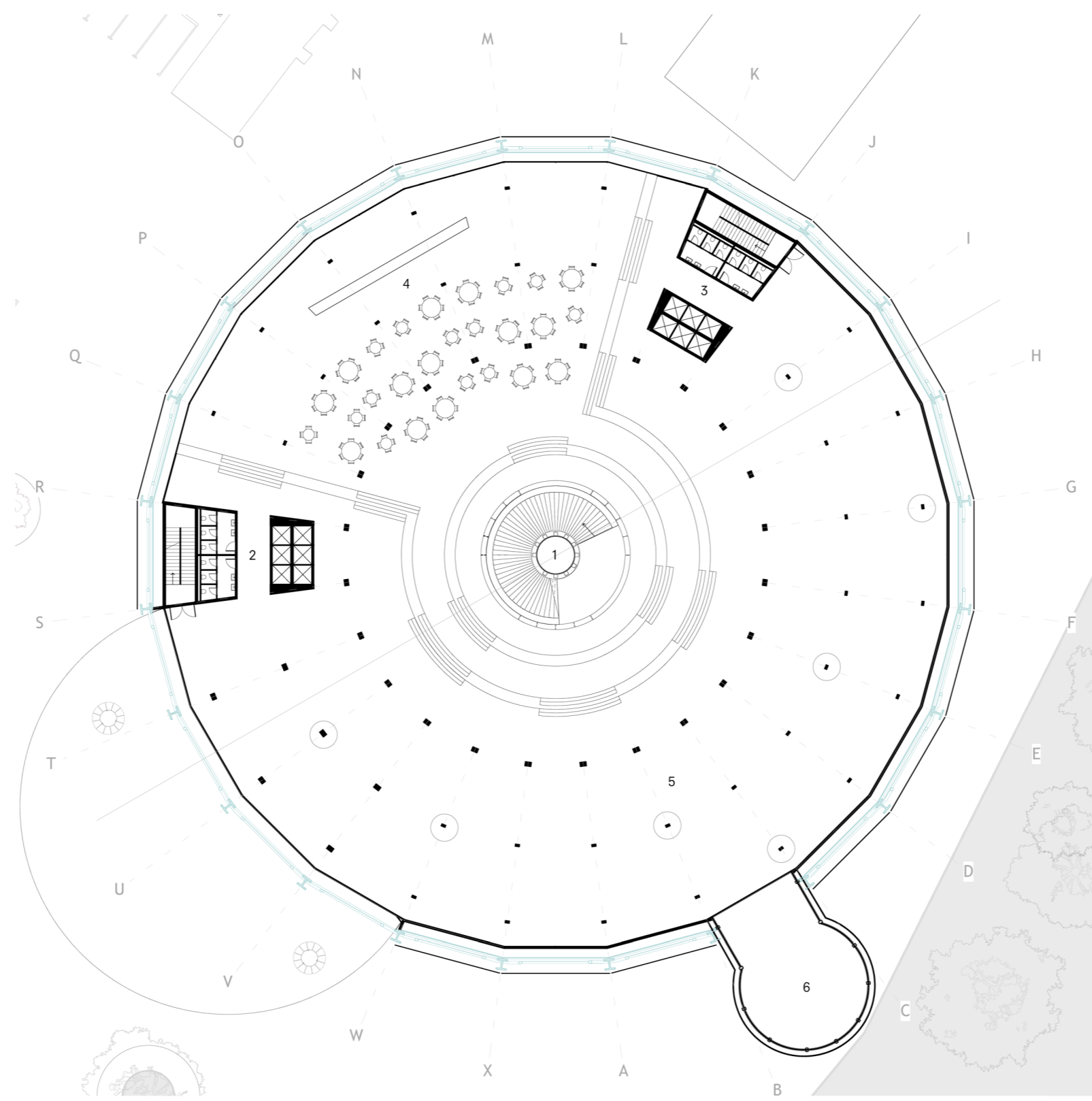


- LEGEND**
- 1 main entrance
 - 2 archive entrance
 - 3 parking
 - 4 archive
 - 5 reception
 - 6 gift shop
 - 7 grand staircase
 - 8 structural core

DRAWING
Site plan

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/500
NORTH ▲

PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE



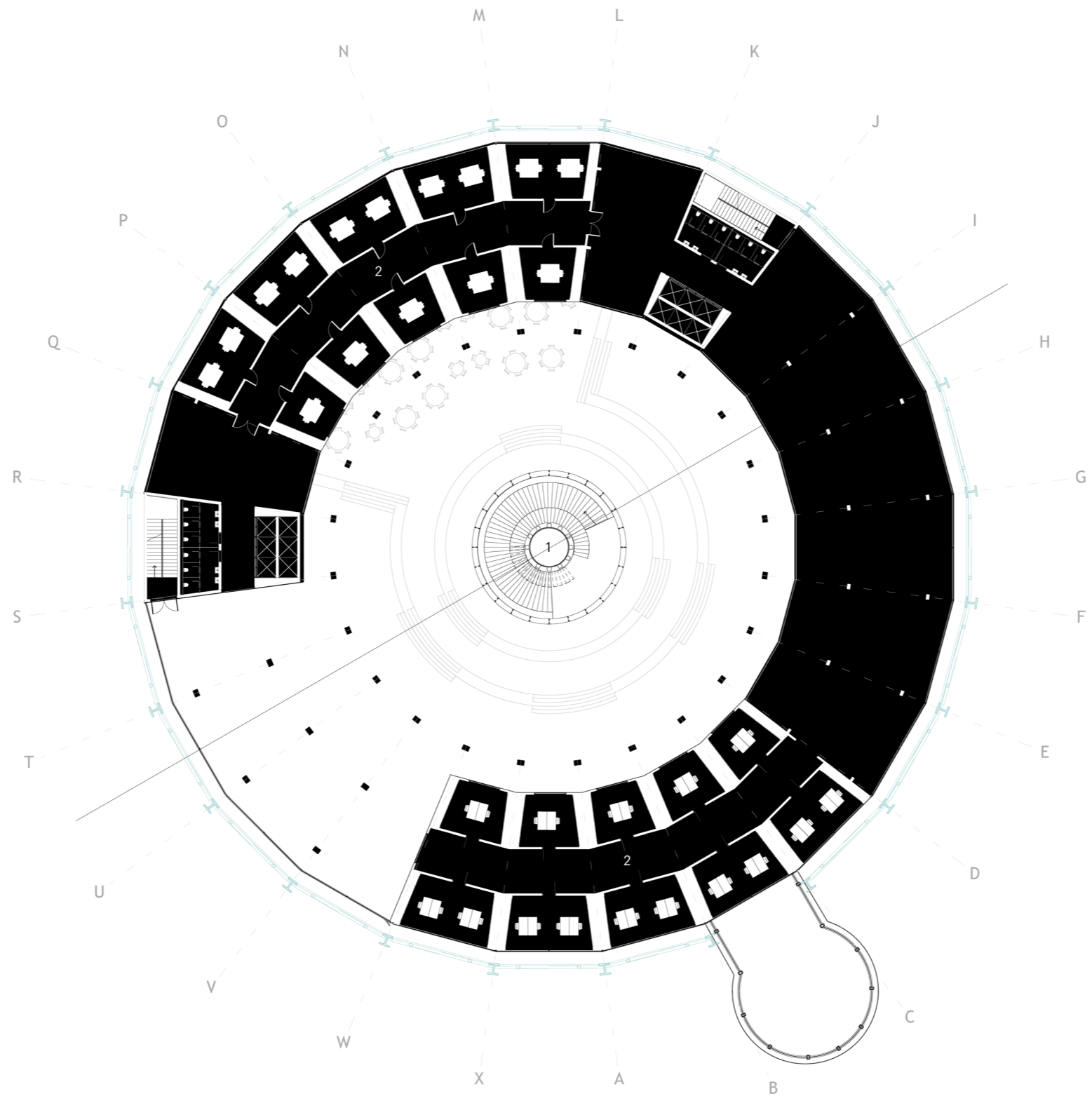
- LEGEND**
- 1 central circulation
 - 2 West circulation core
 - 3 North circulation core
 - 4 cafeteria
 - 5 foyer
 - 6 material lift

DRAWING
Floor plan 1

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/400
NORTH ▲

PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

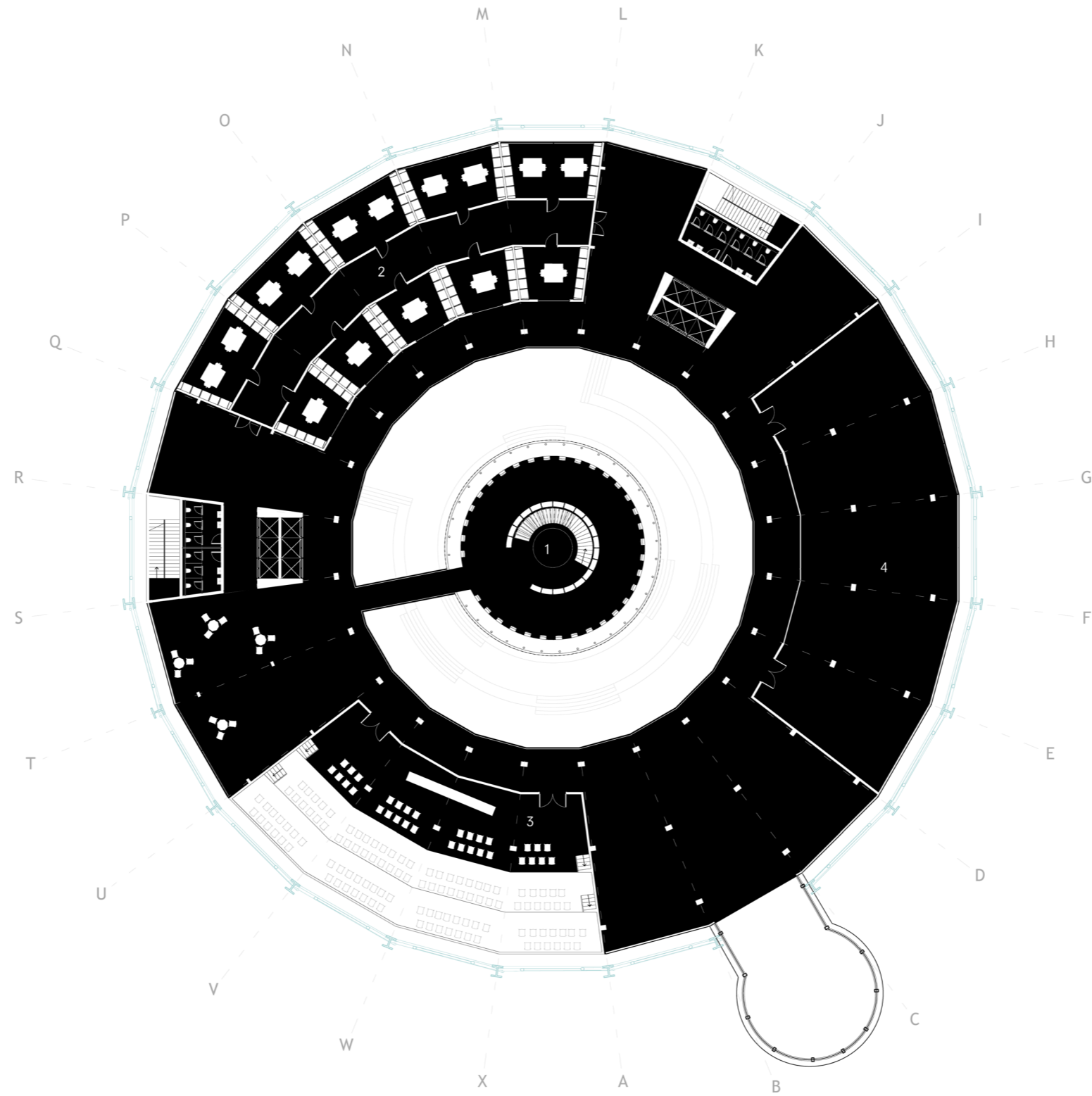
LEGEND
1 central circulation
2 offices



DRAWING
Floor plan 2

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲

PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE



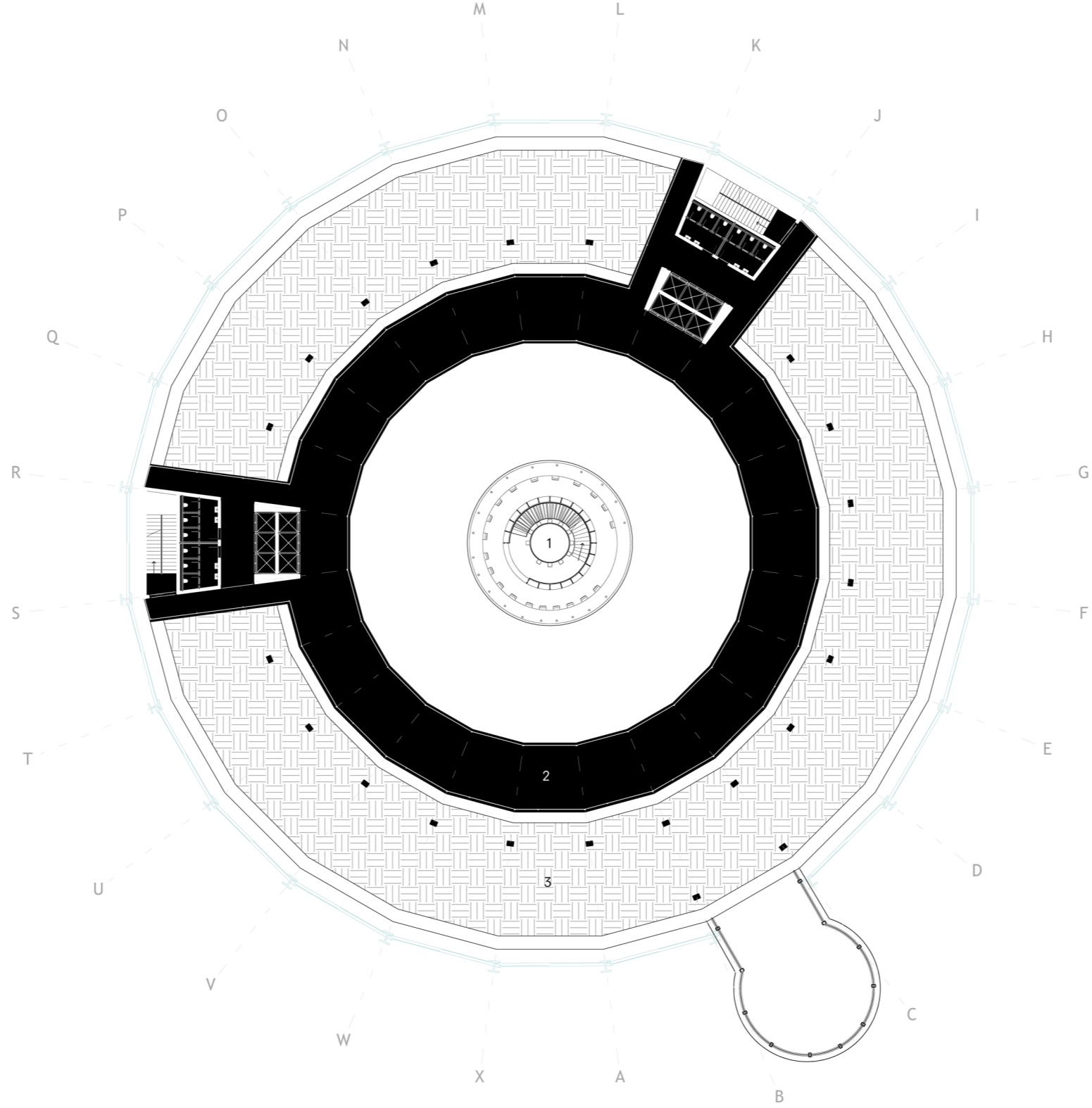
LEGEND
 1 central circulation
 2 offices
 3 auditorium
 4 C lab (curing)

DRAWING
 Floor plan 3

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲

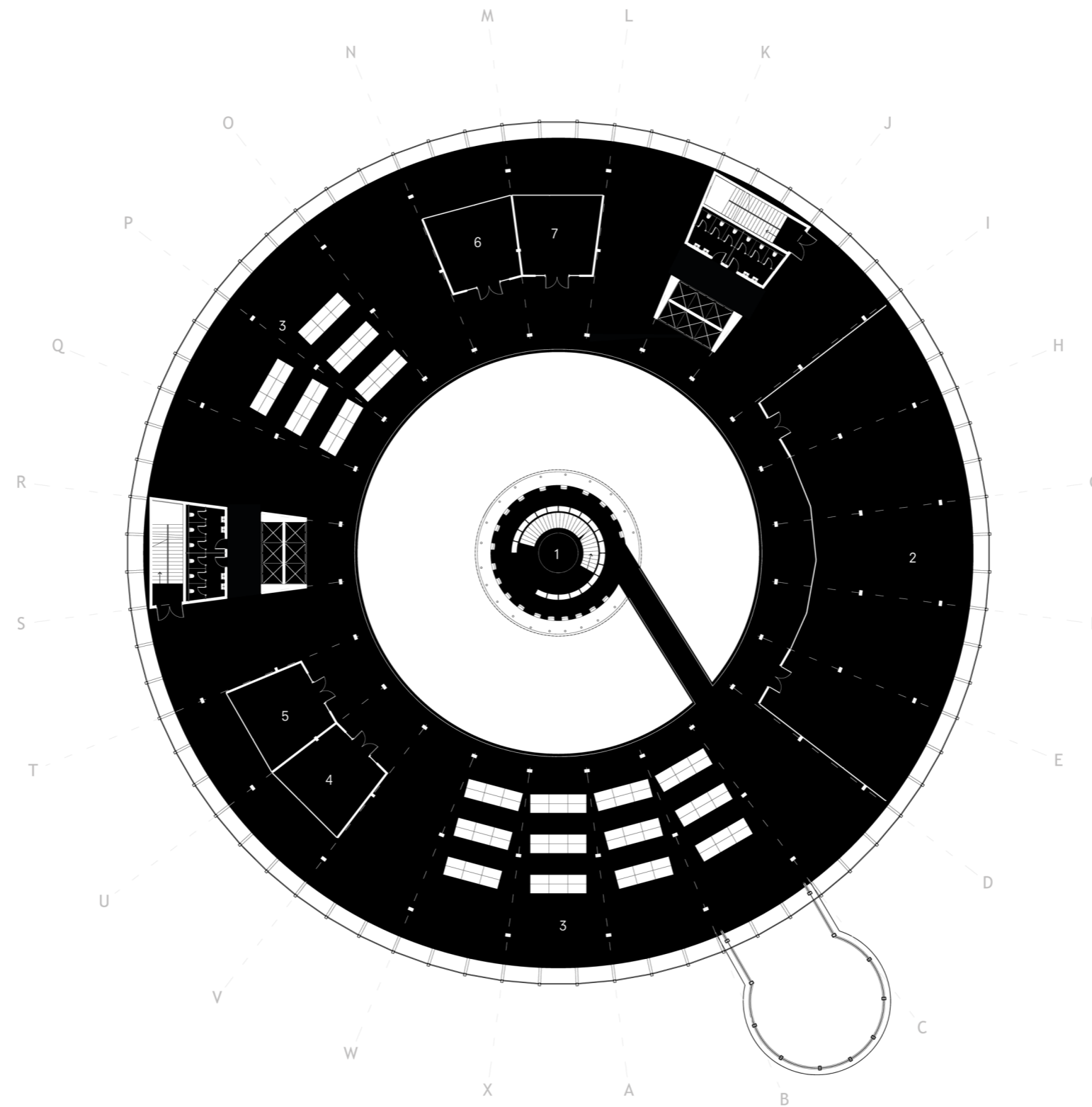
PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

LEGEND
1 central circulation
2 reflection space
3 green roof



DRAWING
Floor plan 13

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲
PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

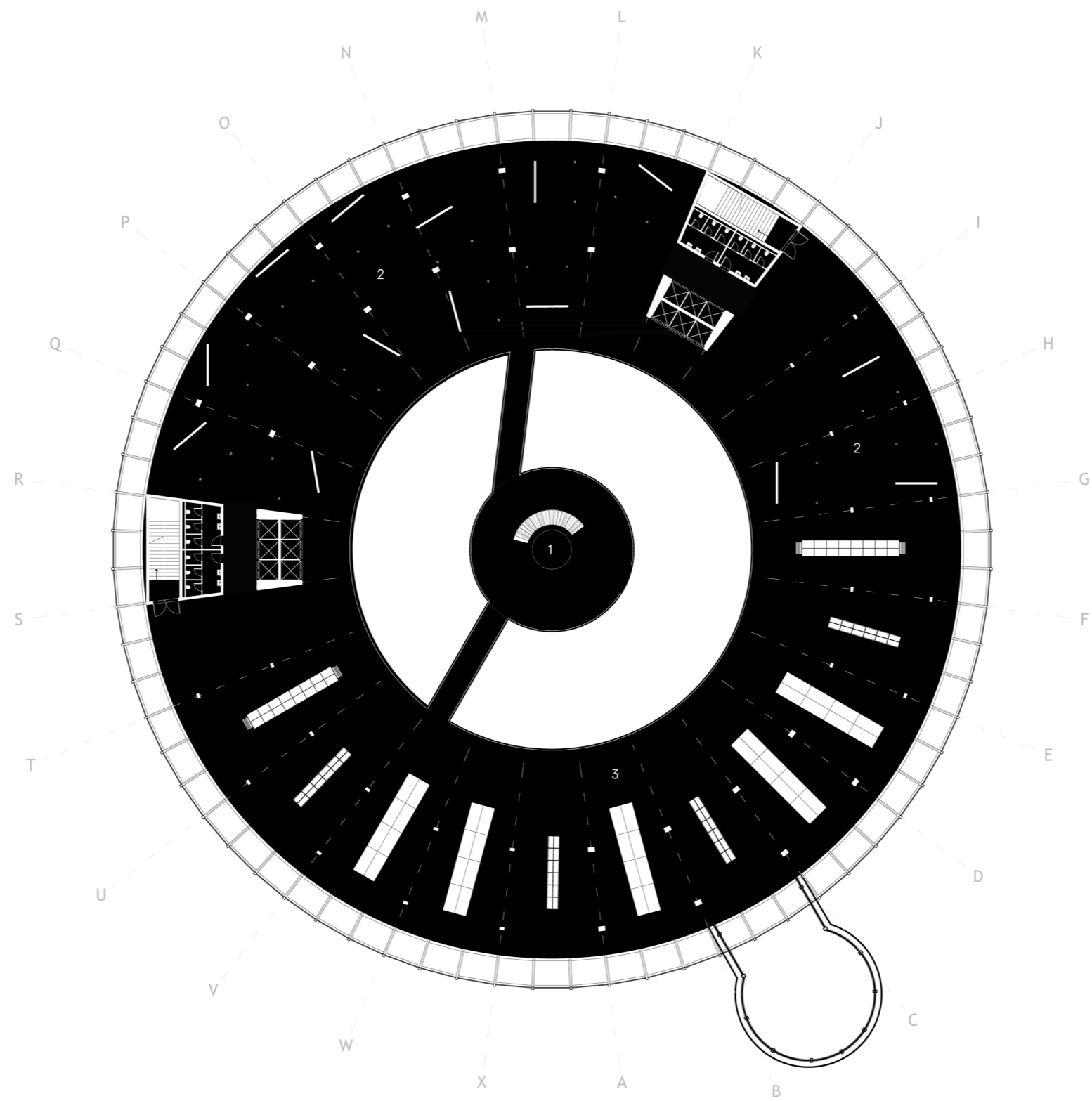


- LEGEND**
- 1 central circulation
 - 2 WS (public workshop)
 - 3 work tables
 - 4 lasercut lab
 - 5 CNC/3D printing lab
 - 6 electronics lab
 - 7 printing lab

DRAWING
Floor plan 14

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲

PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

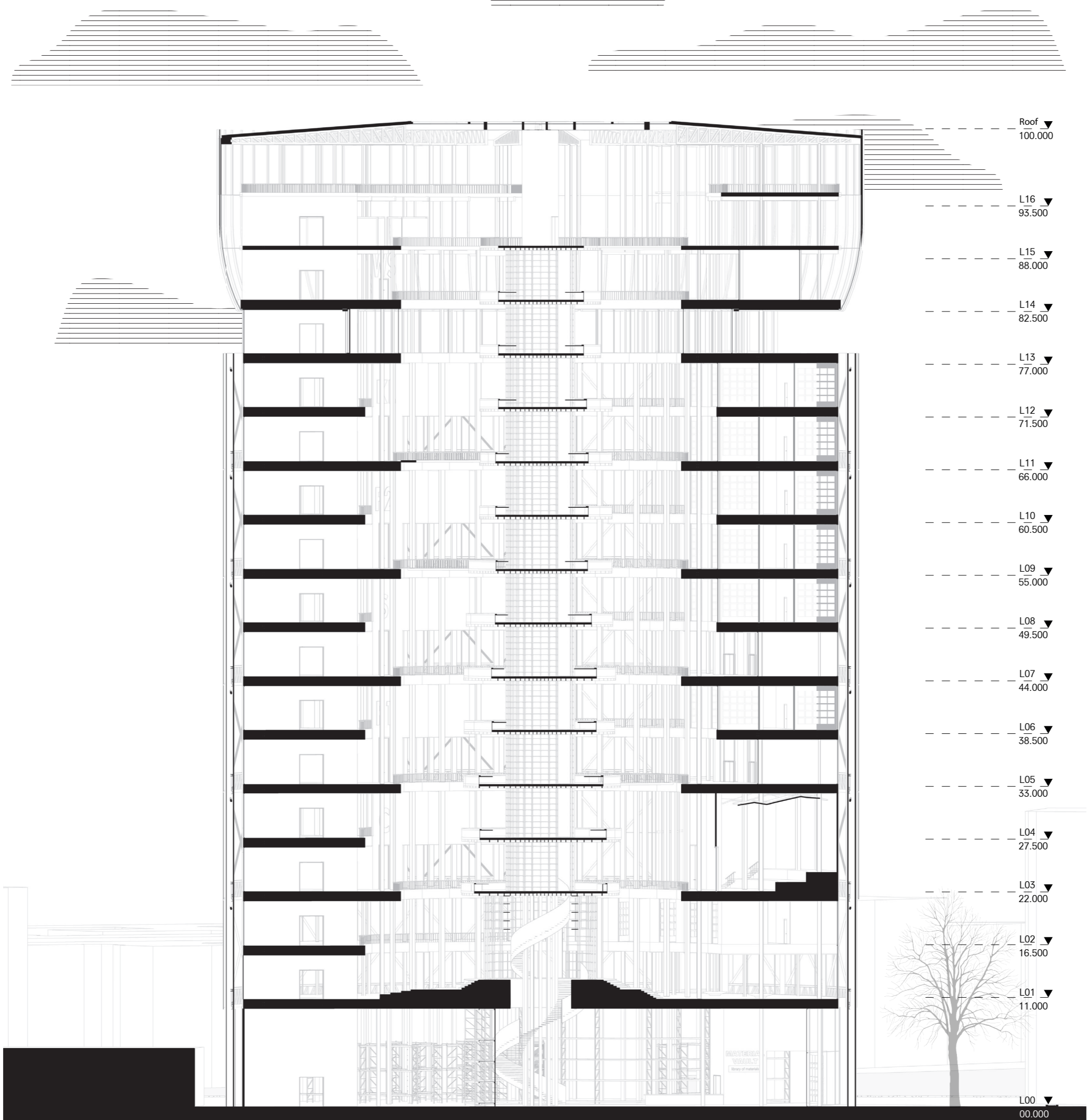


LEGEND
 1 central circulation
 2 business stands
 3 exhibition

DRAWING
 Floor plan 15

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲

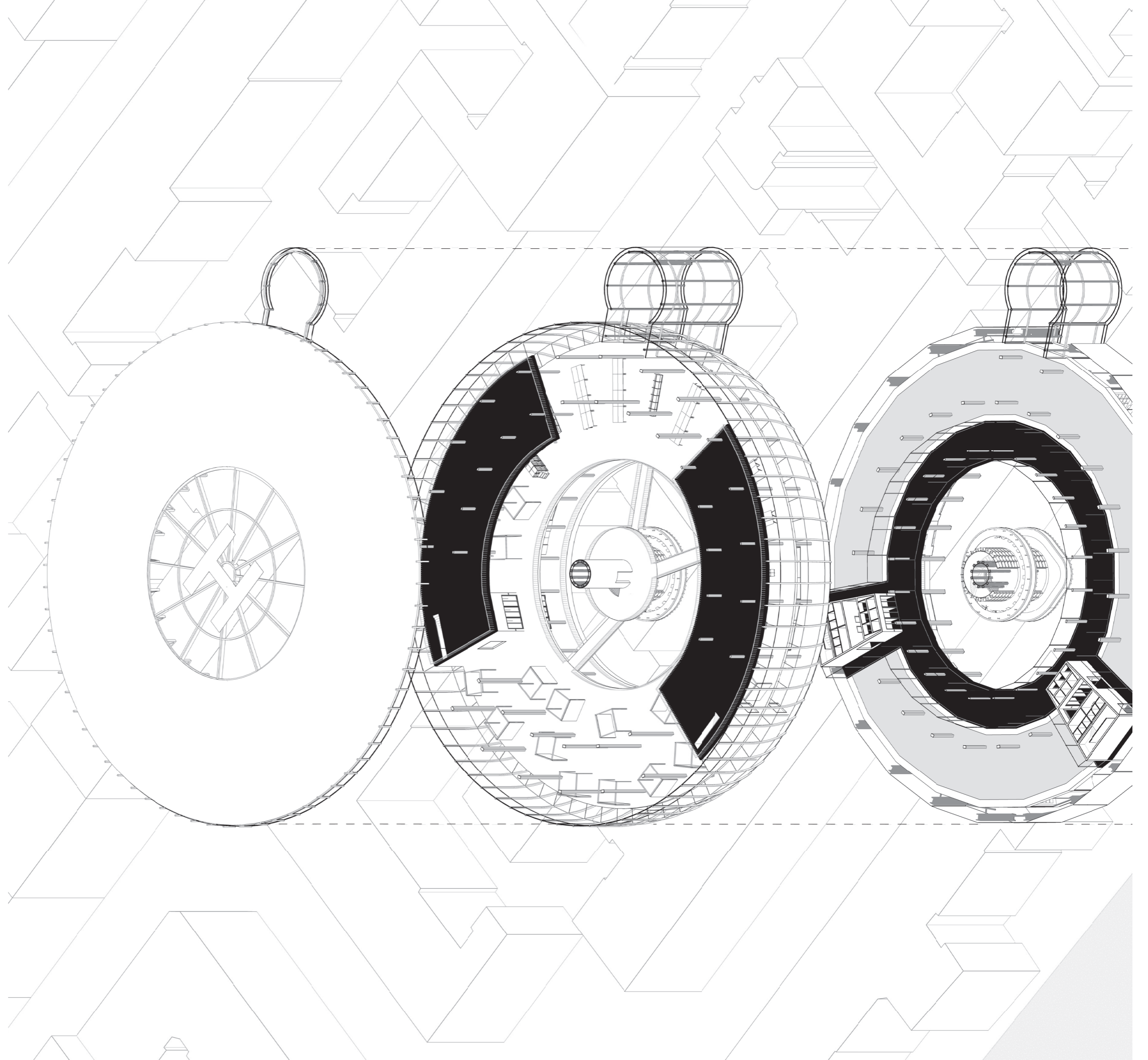
PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

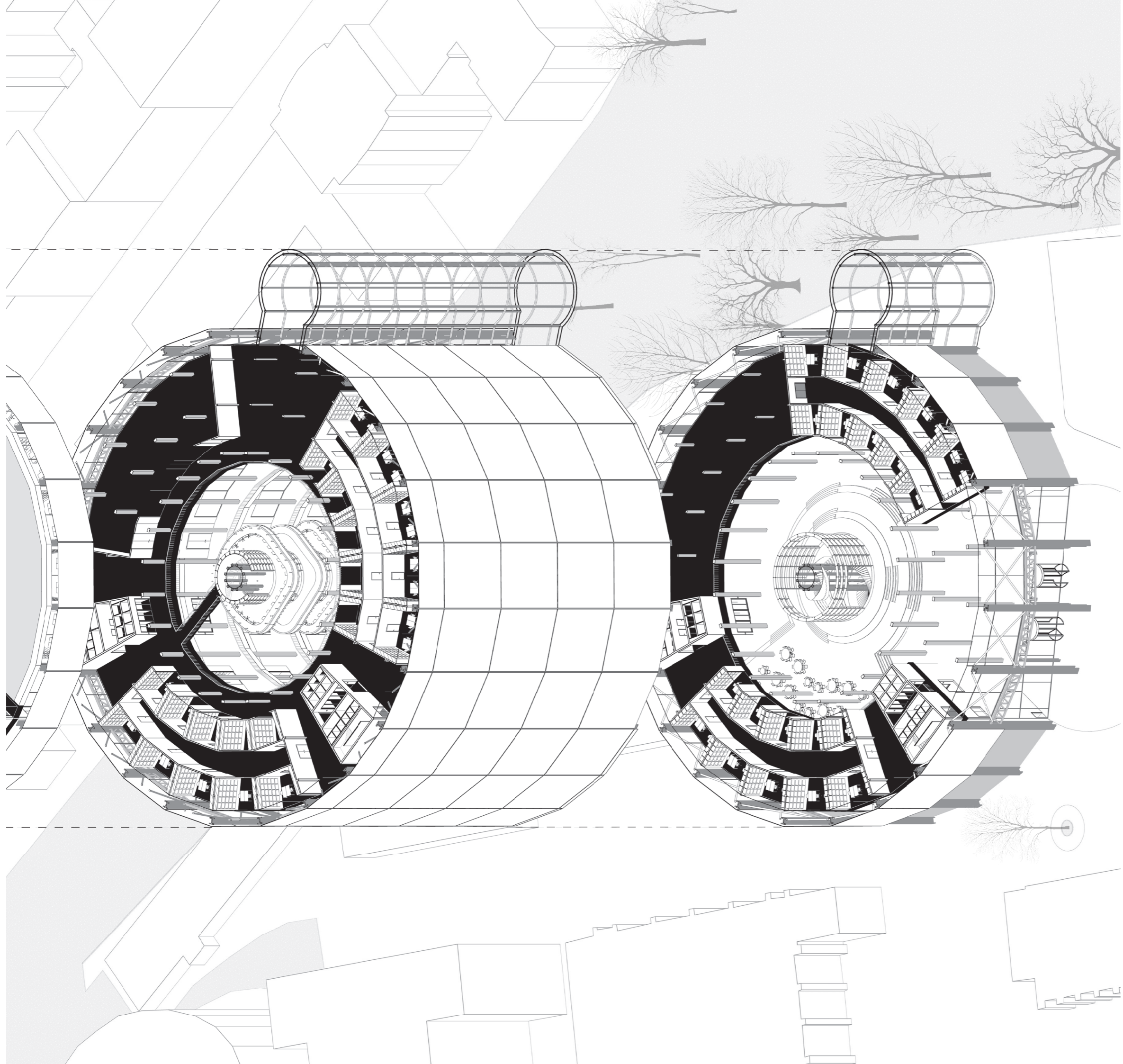


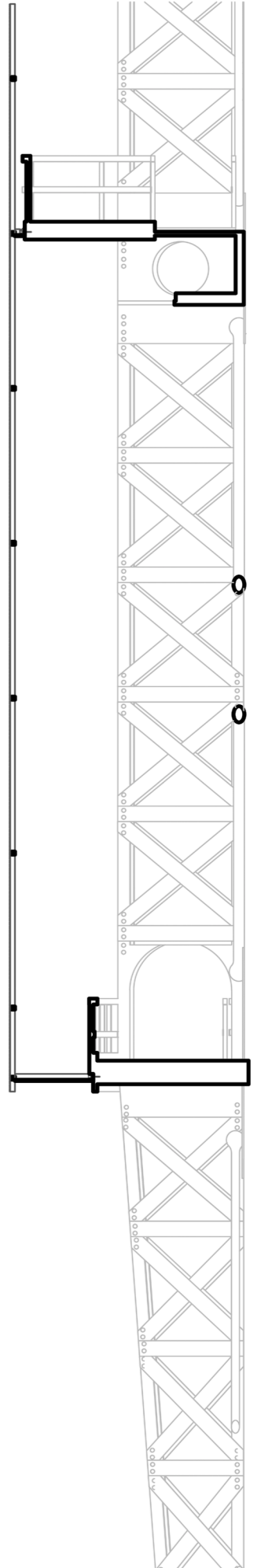
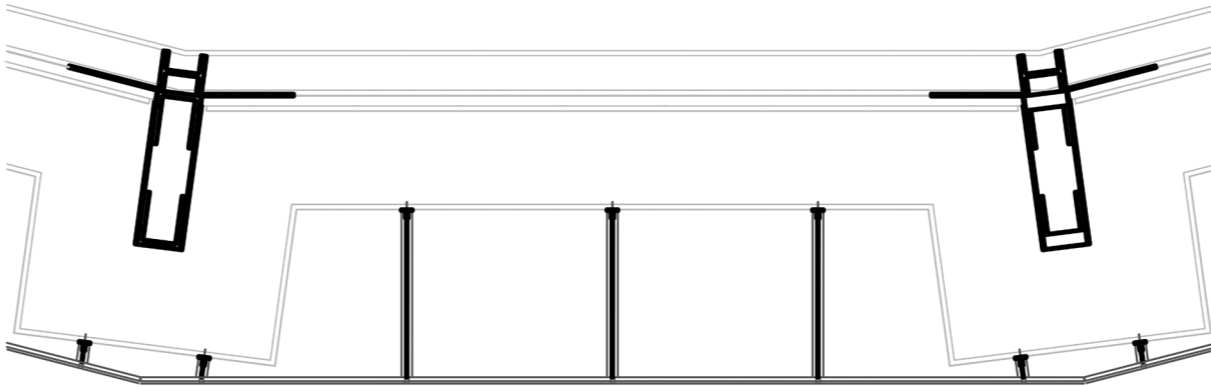
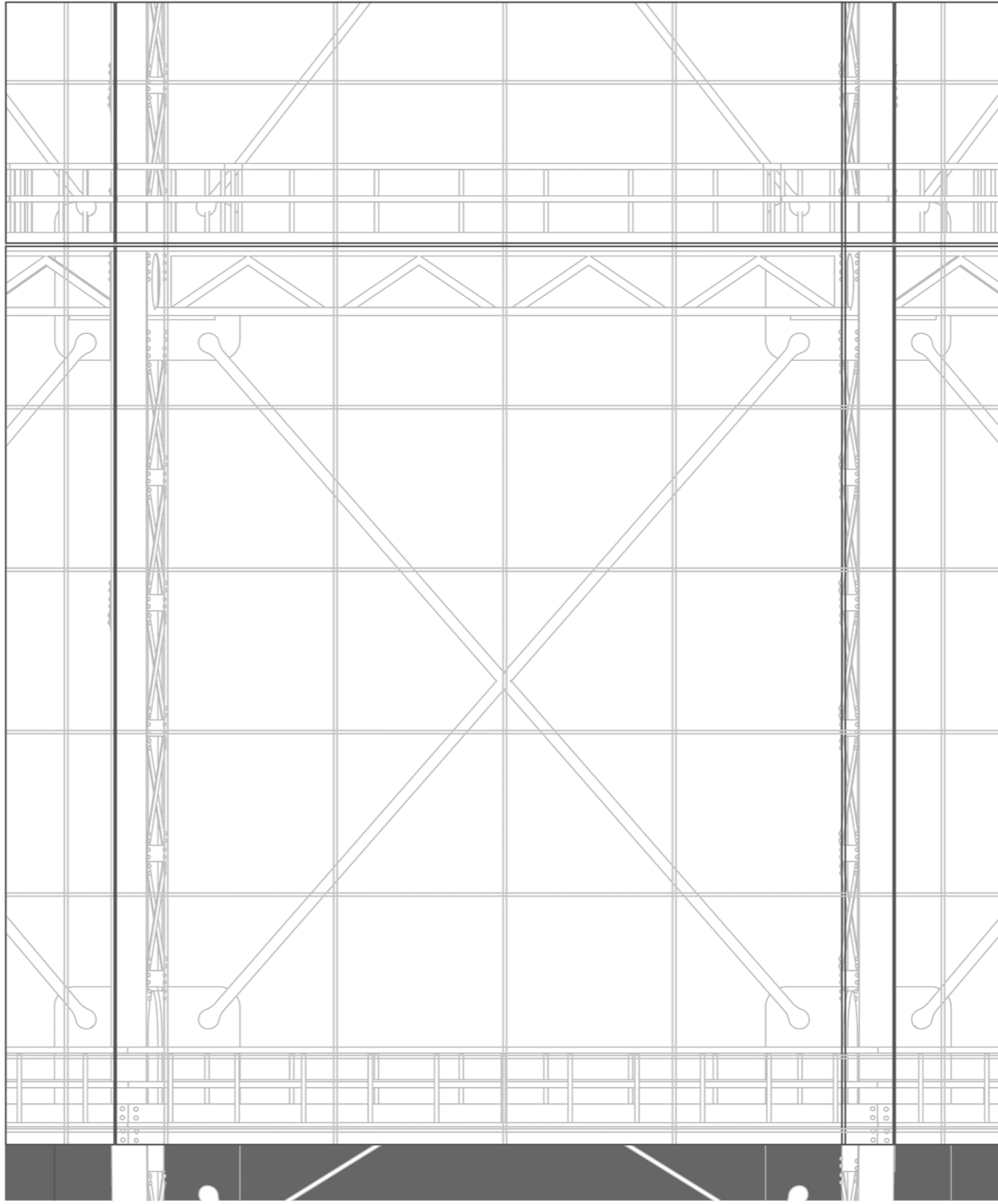
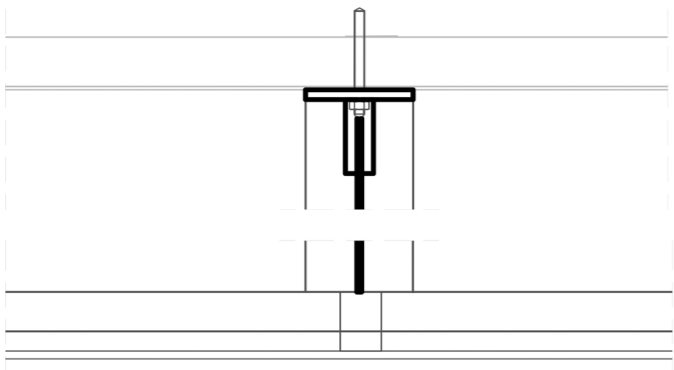
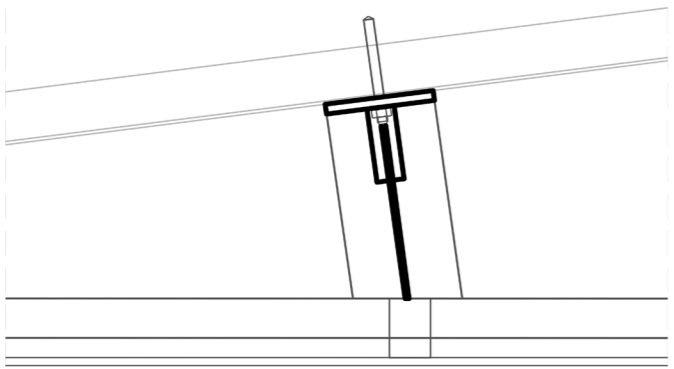
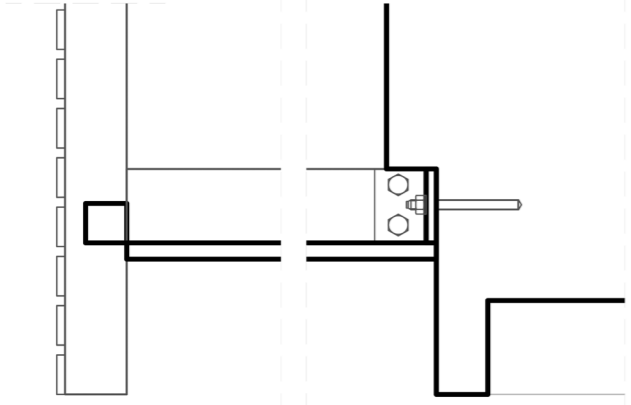
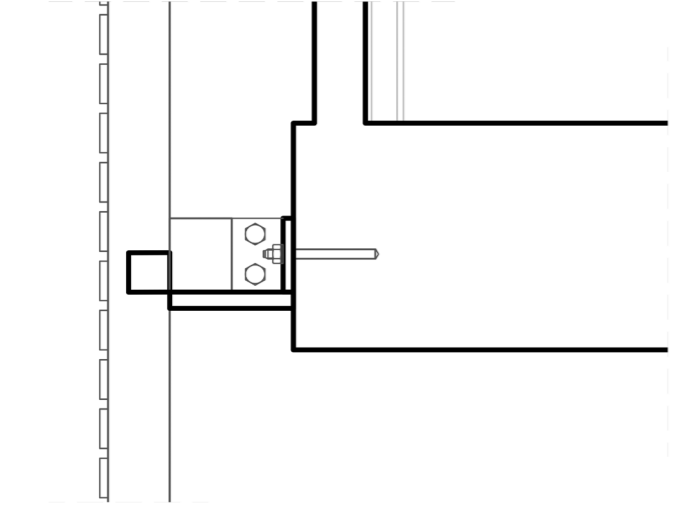
- Roof ▼ 100.000
- L16 ▼ 93.500
- L15 ▼ 88.000
- L14 ▼ 82.500
- L13 ▼ 77.000
- L12 ▼ 71.500
- L11 ▼ 66.000
- L10 ▼ 60.500
- L09 ▼ 55.000
- L08 ▼ 49.500
- L07 ▼ 44.000
- L06 ▼ 38.500
- L05 ▼ 33.000
- L04 ▼ 27.500
- L03 ▼ 22.000
- L02 ▼ 16.500
- L01 ▼ 11.000
- L00 ▼ 00.000

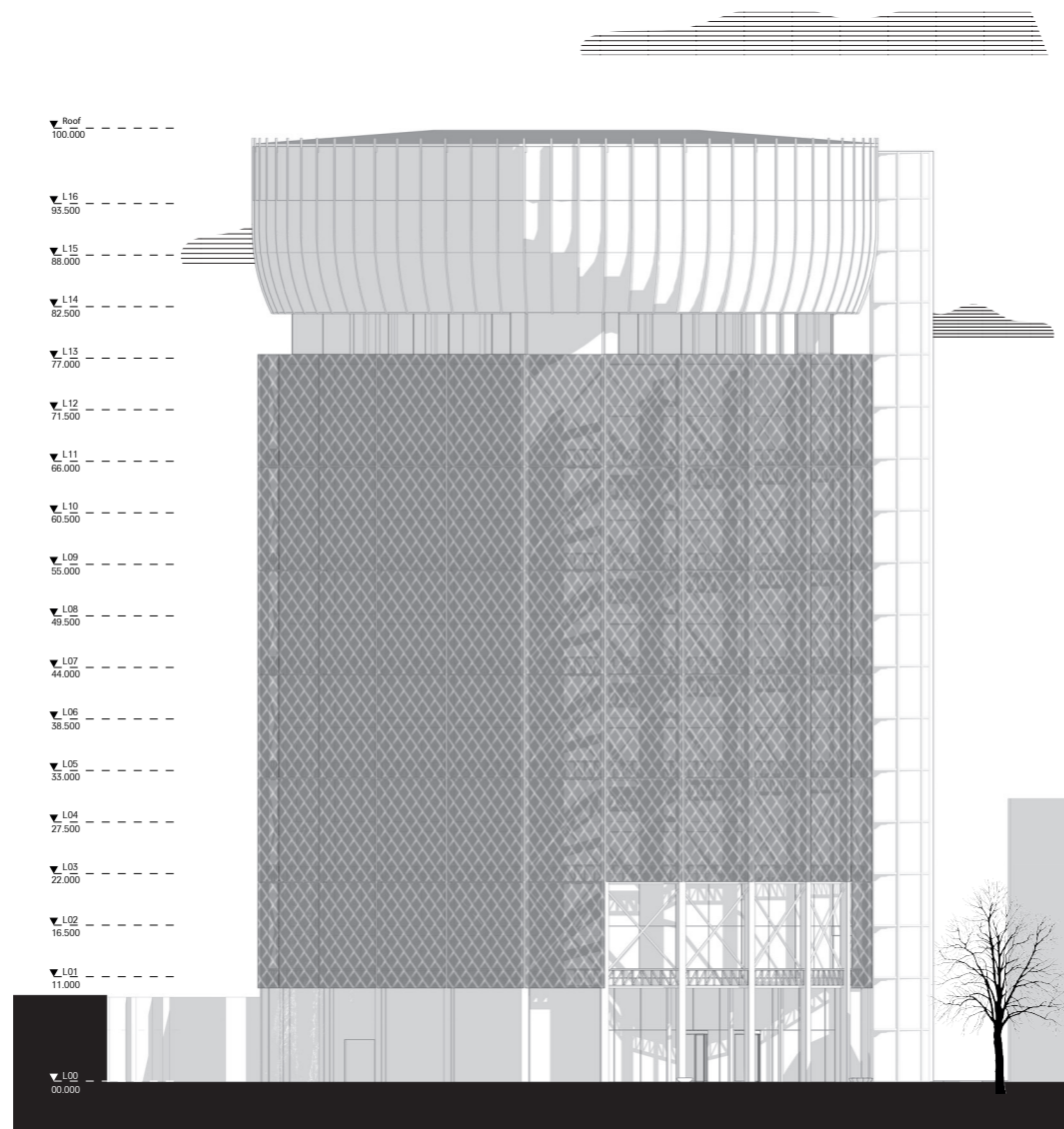
DRAWING
Section 1

| | |
|------------------|-------------------------|
| ARCHITECT | Kalina Matova |
| DATE | 03/10/2024 |
| SCALE | 1/200 |
| NORTH | ◀ |
| <hr/> | |
| PROJECT | Material Vault |
| CLIENT | BAM, EUREF, SMB |
| LOCATION | EUREF Campus Berlin, DE |





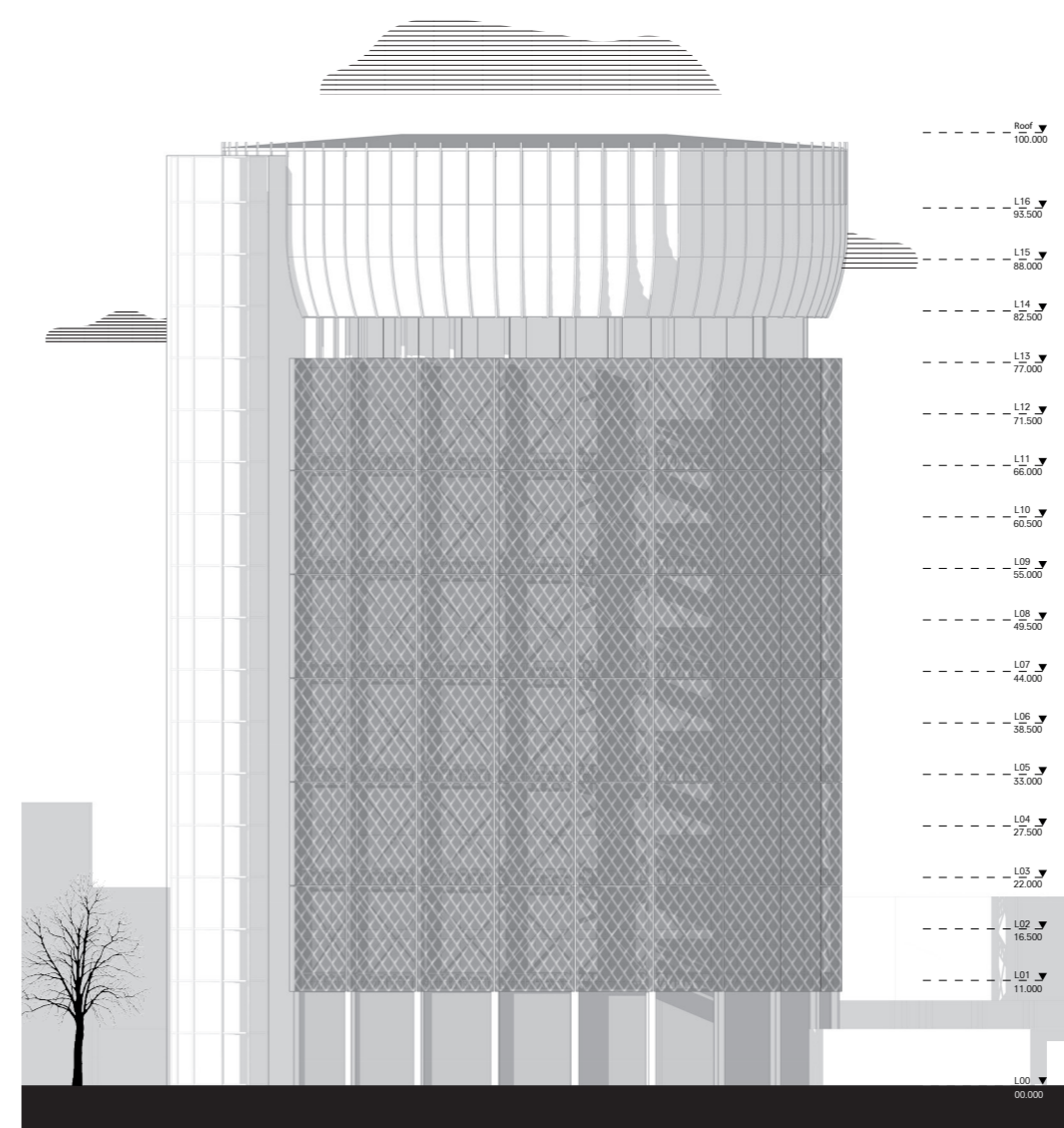




DRAWING
East Elevation

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▼

PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

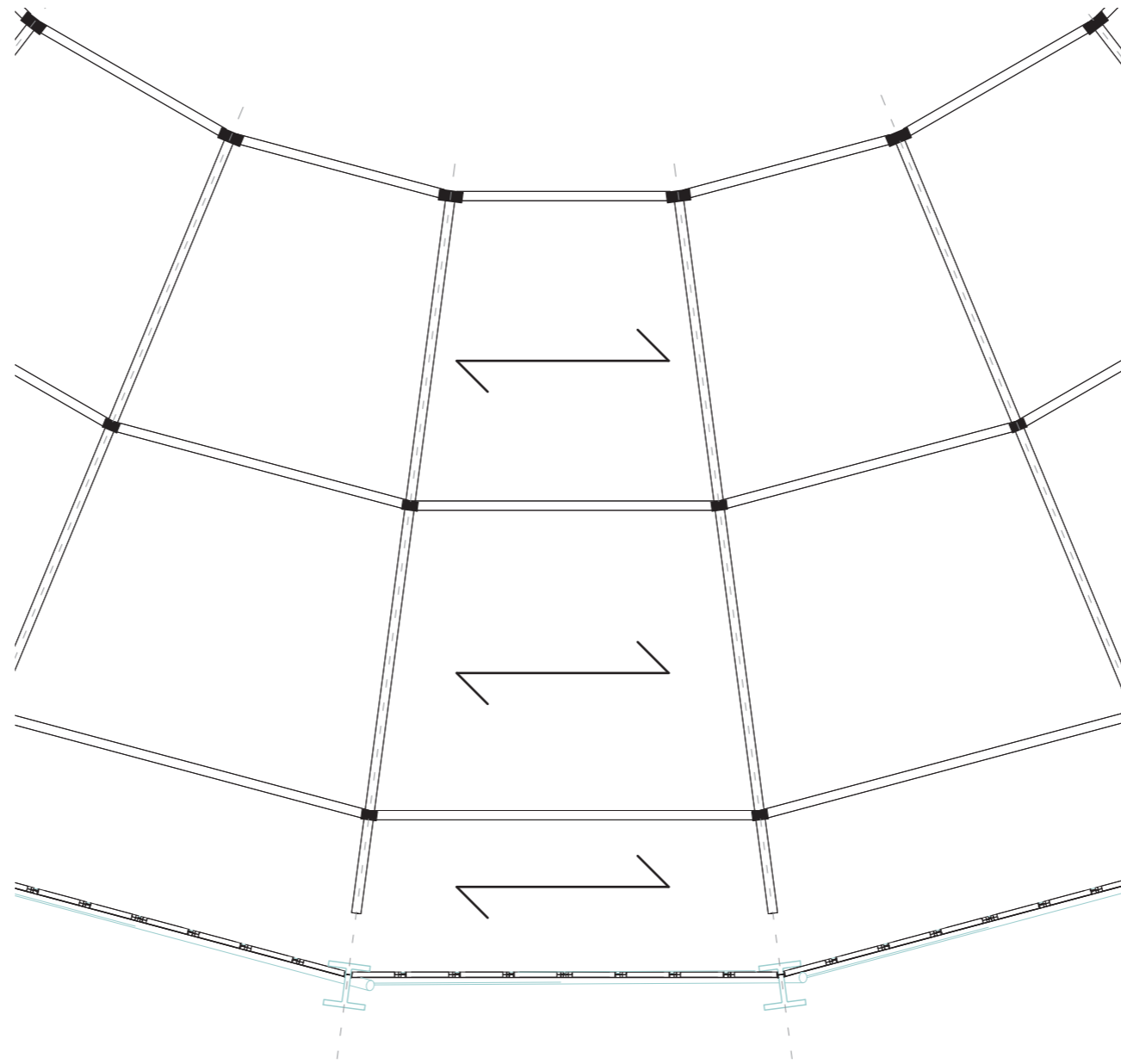


DRAWING
West elevation

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲

PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

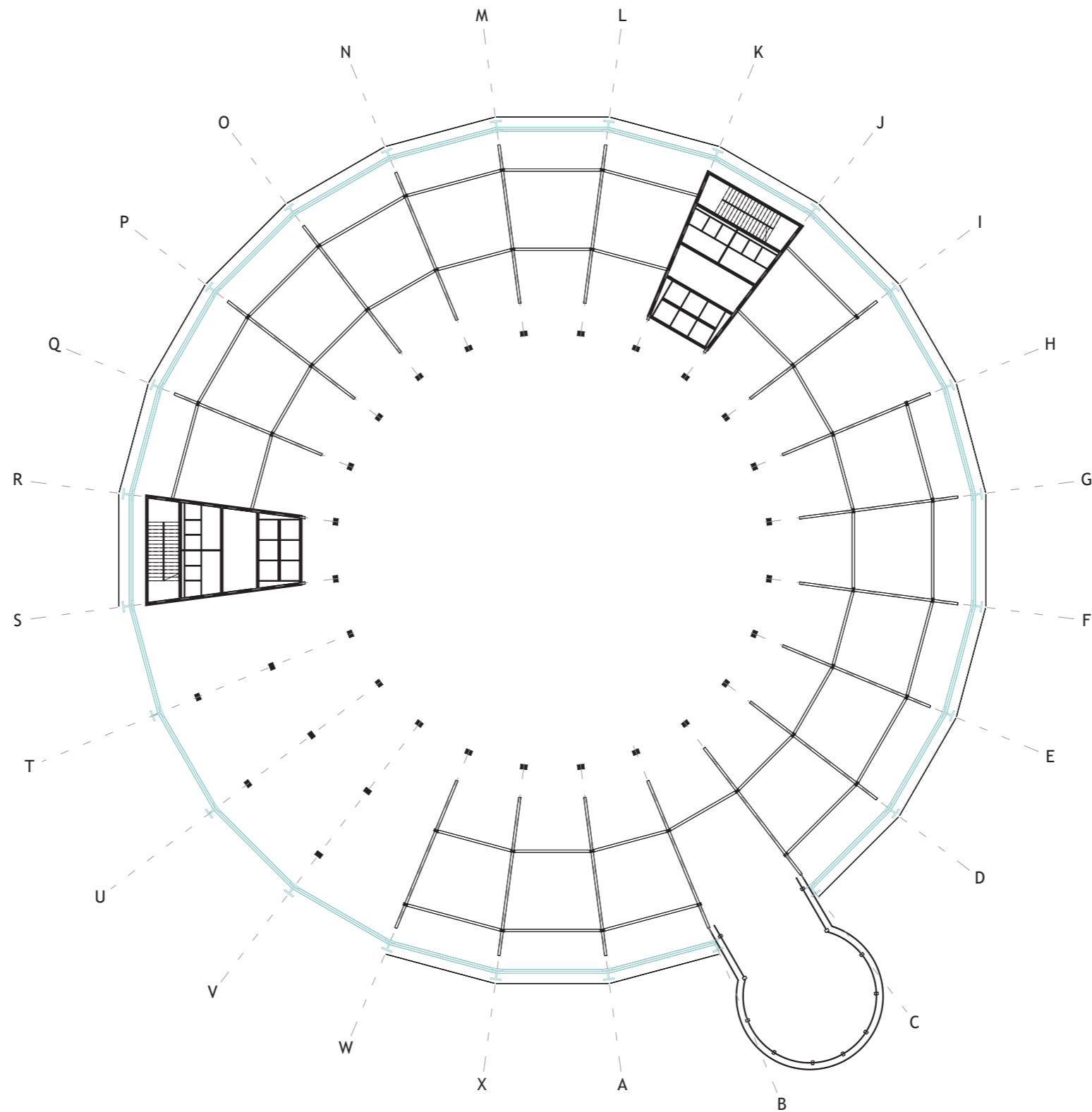
BUILDING TECHNOLOGY



DRAWING
Structural plan level 2

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/50
NORTH ▲

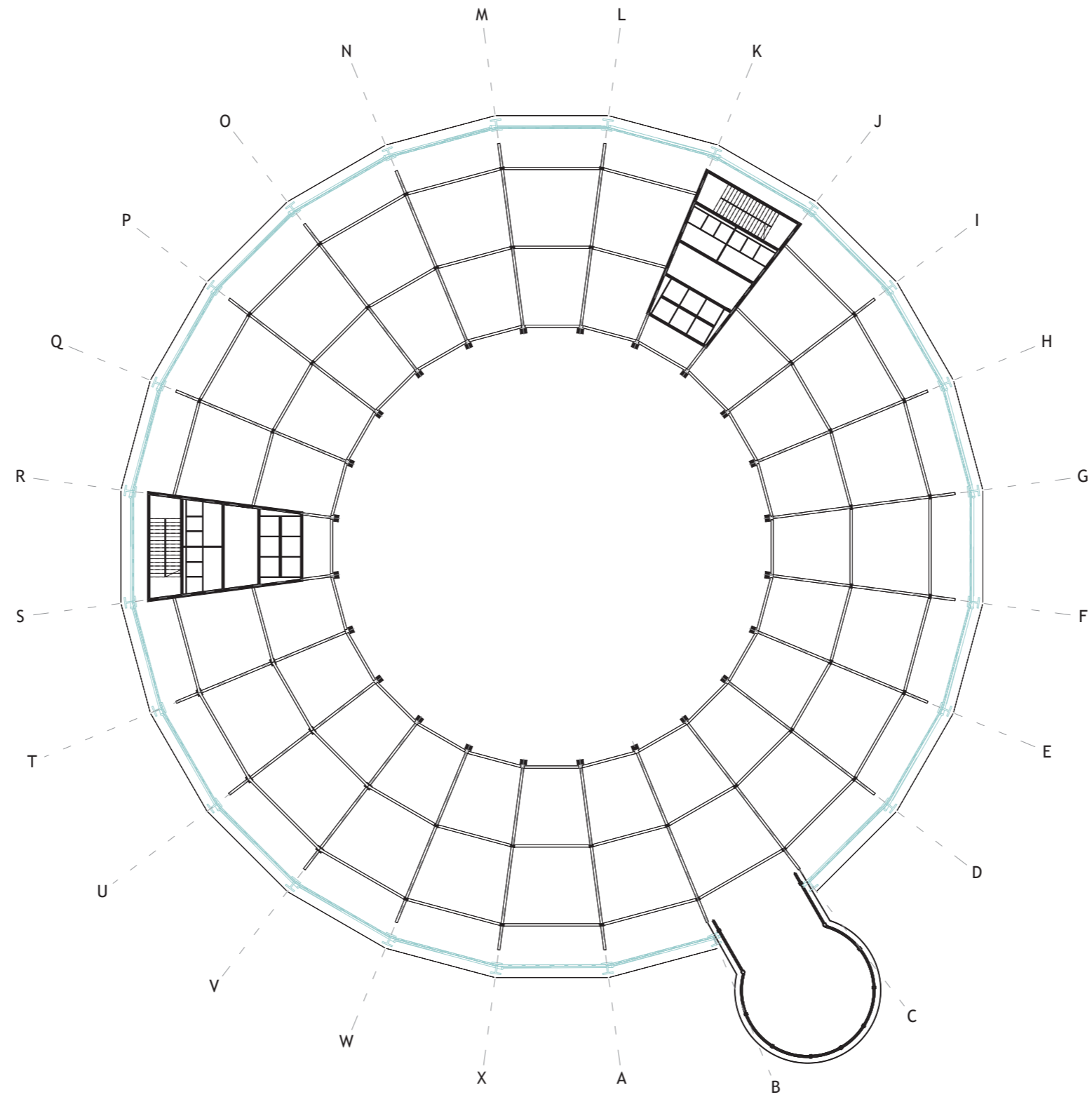
PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE



DRAWING
Structural plan level 1

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲

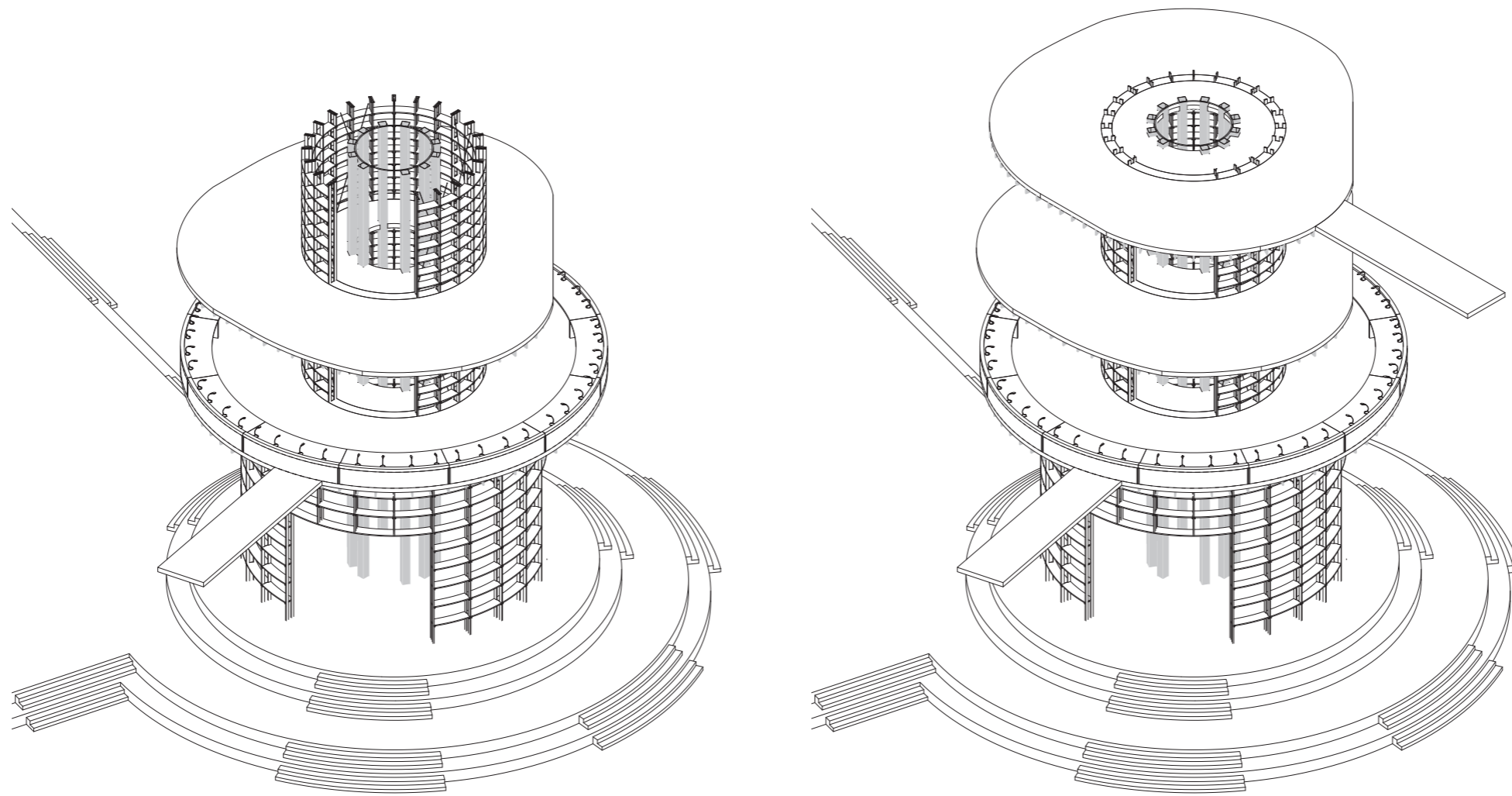
PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE



DRAWING
Structural plan level 2

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/200
NORTH ▲

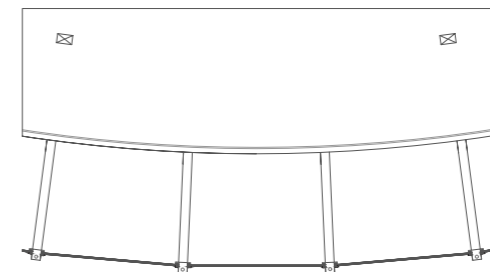
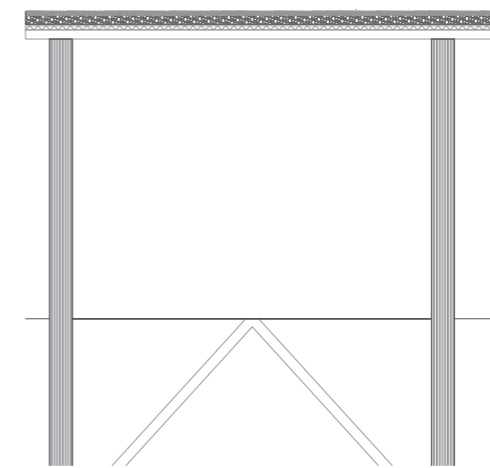
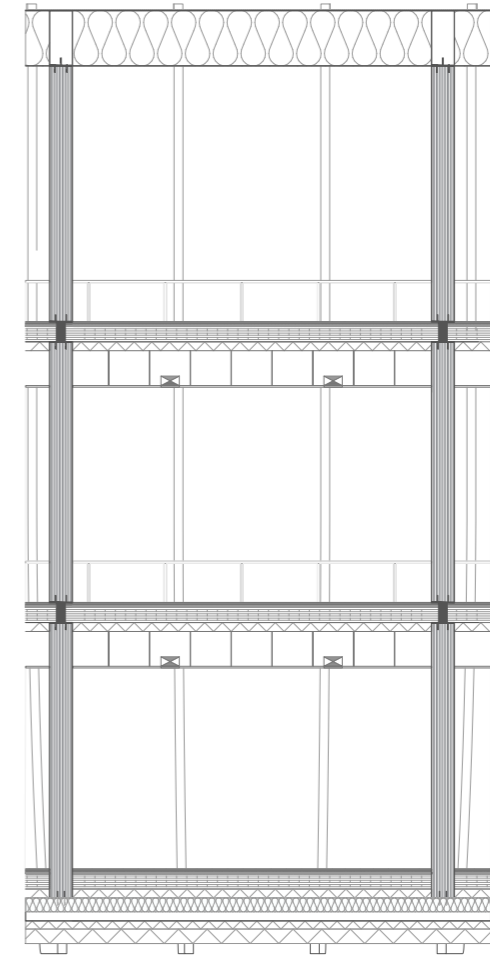
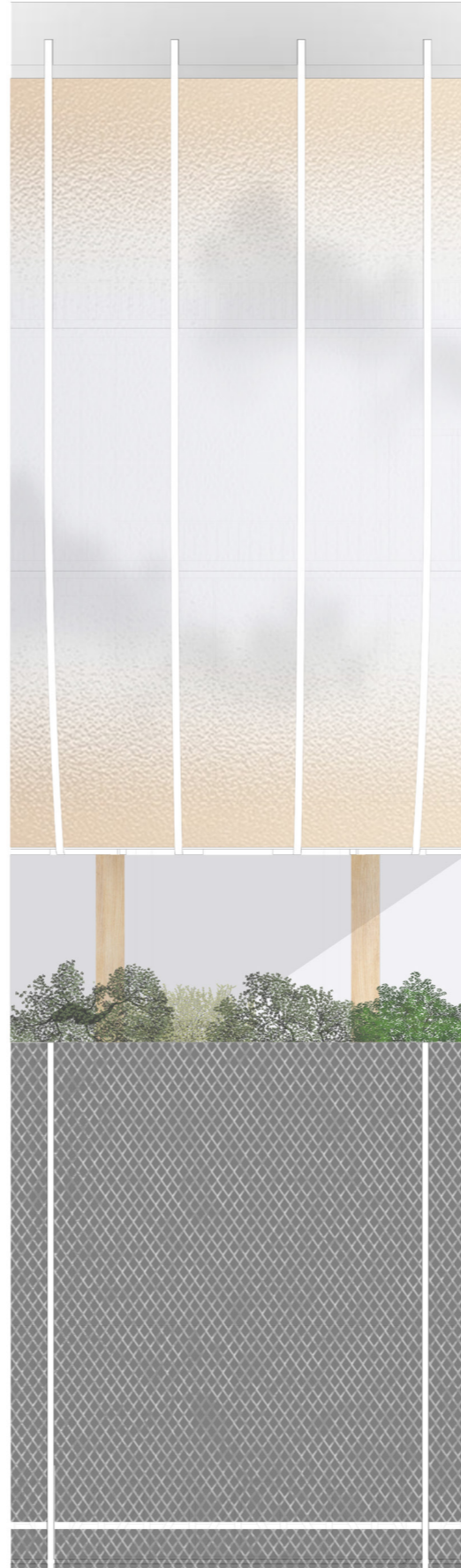
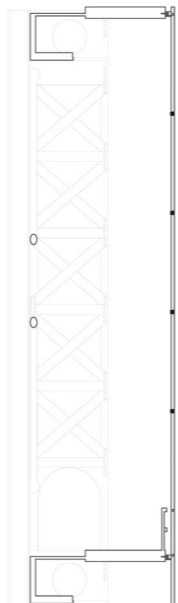
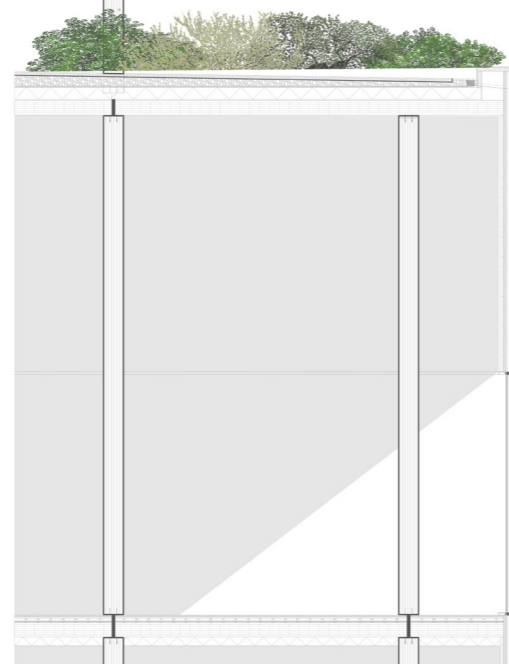
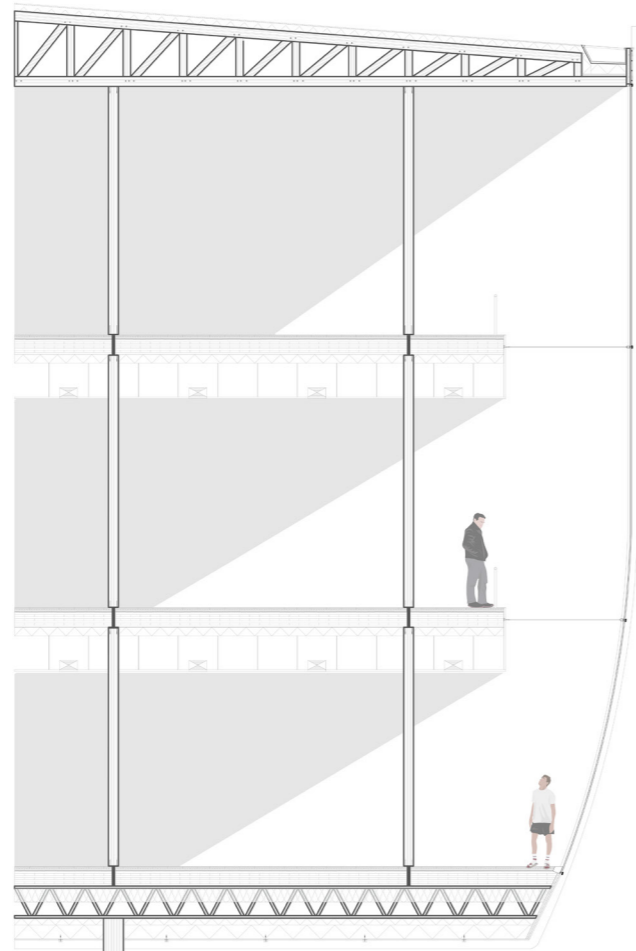
PROJECT Material Vault
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LOCATION EUREF Campus Berlin, DE

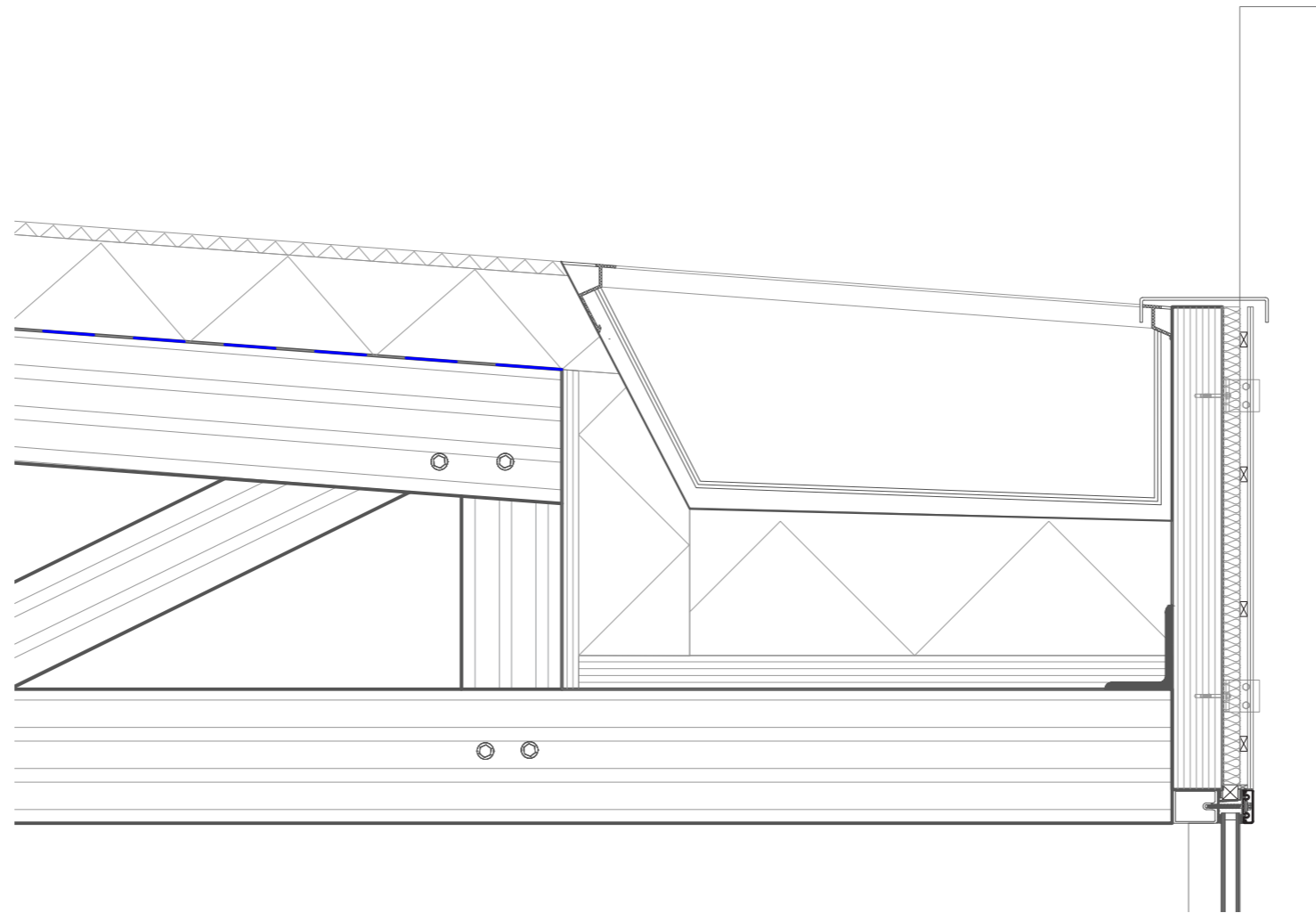
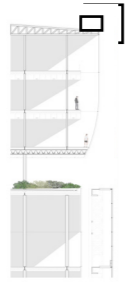


DRAWING
Axonometric drawing

ARCHITECT Kalina Matova
DATE 03/10/2024
SCALE 1/50
NORTH ▲

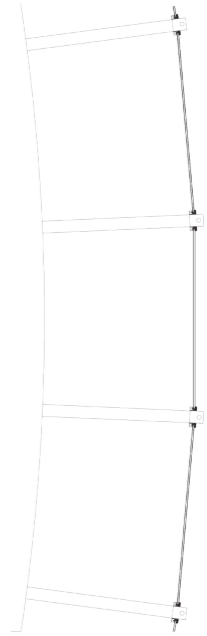
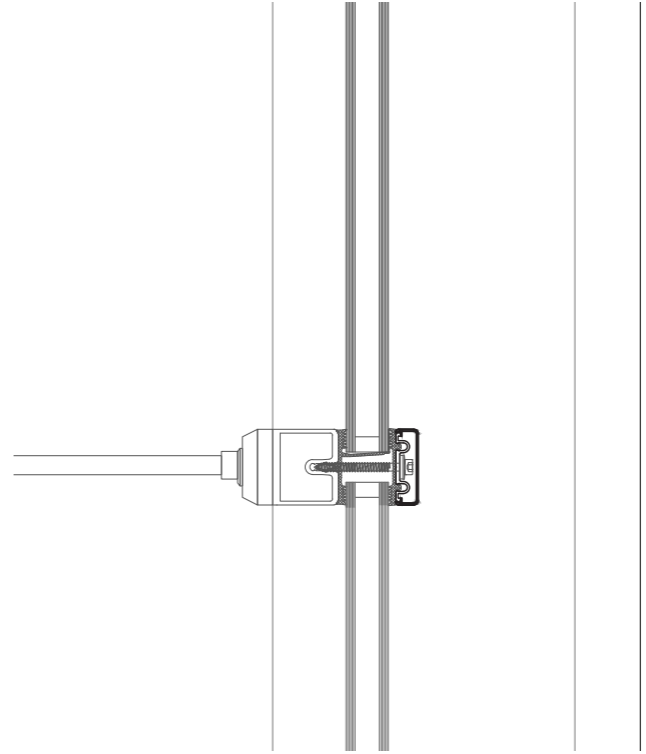
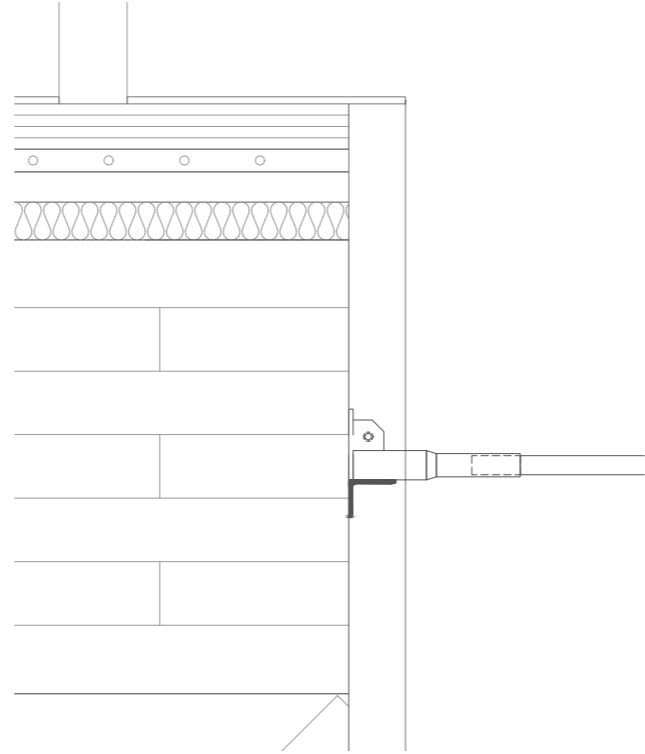
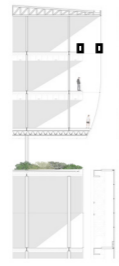
PROJECT Material Vault
CLIENT BAM, EUREF, SMB
LOCATION EUREF Campus Berlin, DE

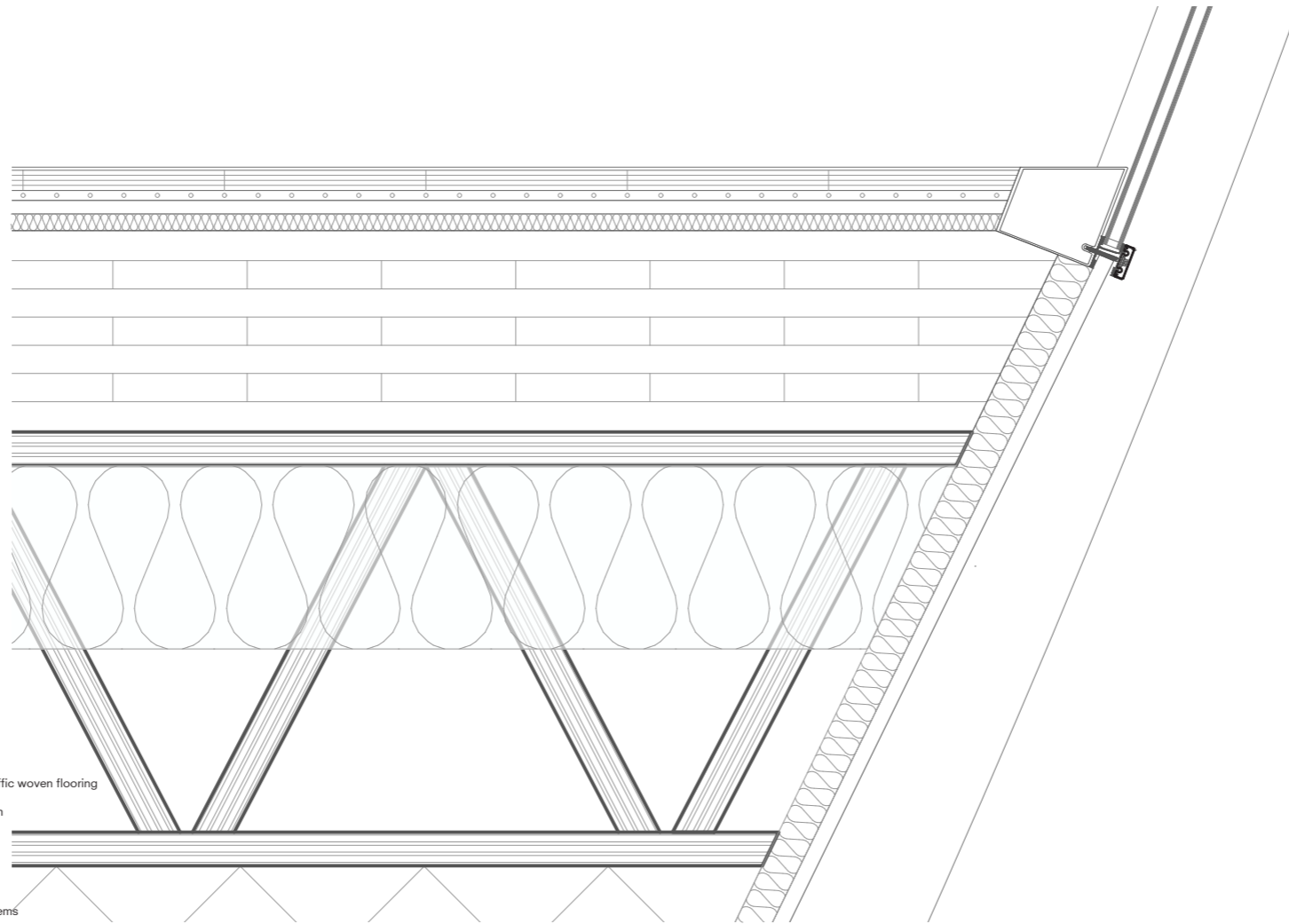




ROOF CONSTRUCTION

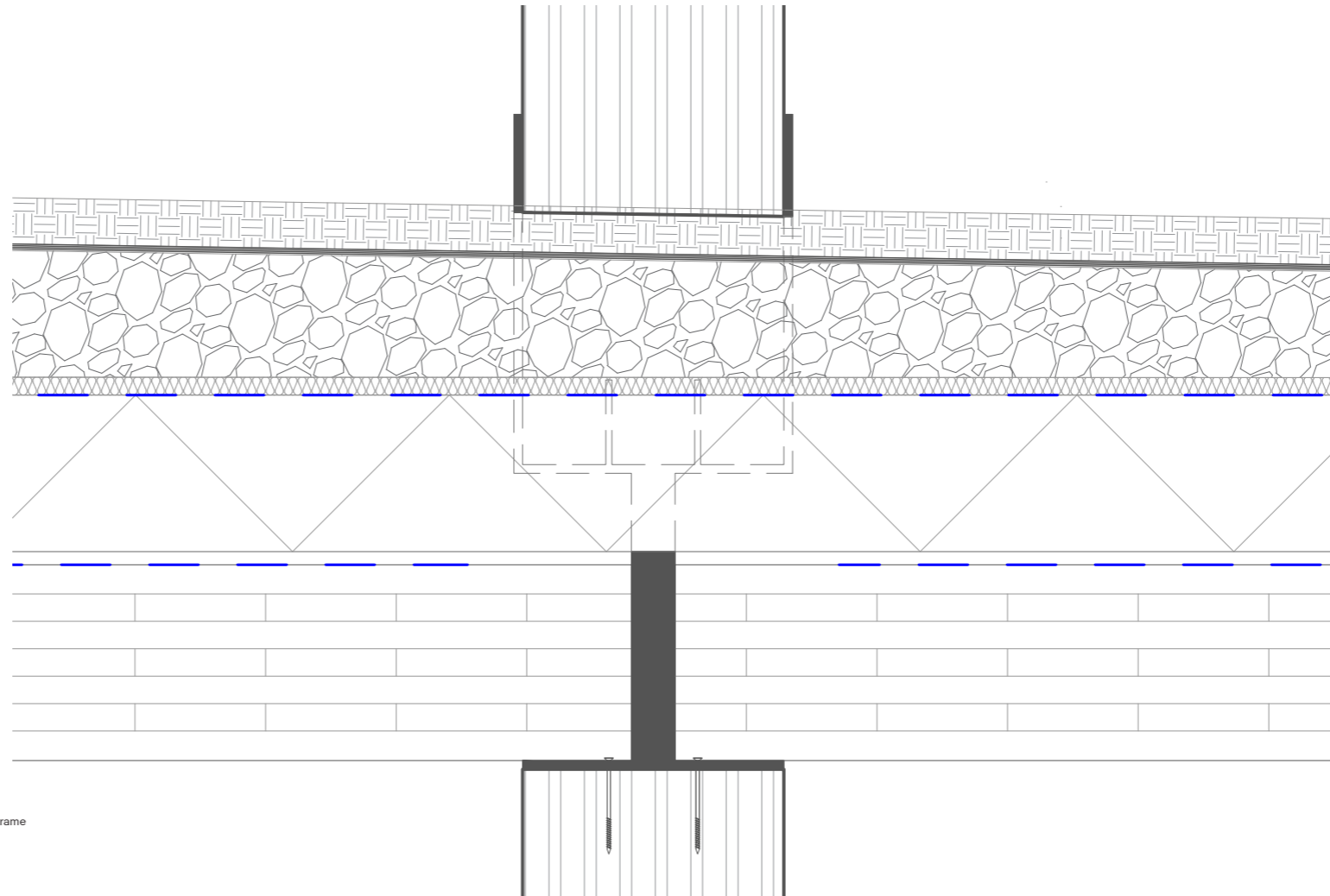
- | | |
|-------|---|
| 1.5mm | sandwich panel on top |
| 20mm | stainless steel sheet super mirror polish |
| 1.5mm | rigid insulation |
| 1.5mm | stainless steel sheet super mirror polish |
| | GLULAM truss |
| | sandwich panel on bottom |
| 1.5mm | stainless steel sheet super mirror polish |
| 40mm | rigid insulation |
| 1.5mm | stainless steel sheet super mirror polish |
| | rain gutter |
| | downpipe to facade mullions |
| | steel anchoring |
| 1mm | EPDM membrane |





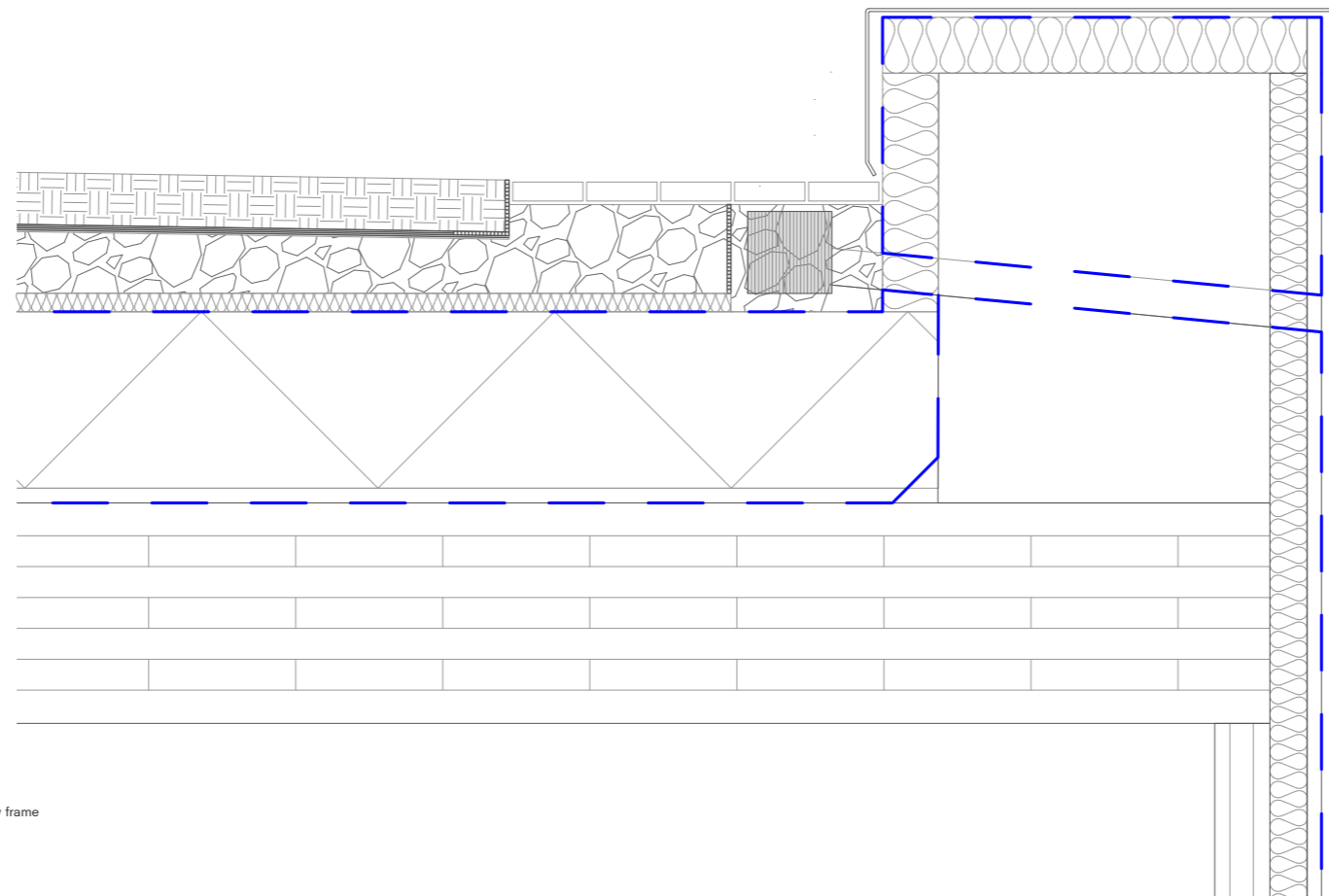
FLOOR CONSTRUCTION

- 4.6mm heavy traffic woven flooring
- 30 mm plywood flooring
- 15mm underfloor heating system
- 20mm floor deck
- 70mm acoustic batten
- service void
- 25mm rigid insulation
- 300mm 7 ply CLT floor panel
- 400mm suspended ceiling
- HVAC and electrical systems
- 450mm GLULAM beam
- Hidden aluminum T-profile connection
- 30mm plasterboards



GREEN ROOF CONSTRUCTION

- 63mm custom aluminum window frame
- metal skirting
- concrete flags
- drainage channel
- planting substrate
- 180mm filter fleece
- drainage layer
- 20mm protective membrane
- 3ply EPDM waterproofing
- separating membrane
- vapour barrier
- separating membrane
- 400mm GLULAM beam



GREEN ROOF CONSTRUCTION

- | | |
|-------|------------------------------|
| 63mm | custom aluminum window frame |
| | metal skirting |
| | concrete flags |
| | drainage channel |
| | planting |
| 180mm | substrate |
| | filter fleece |
| 20mm | drainage layer |
| | protective membrane |
| | 3ply EPDM waterproofing |
| | separating membrane |
| | vapour barrier |
| | separating membrane |
| 400mm | GLULAM beam |



RENDERS













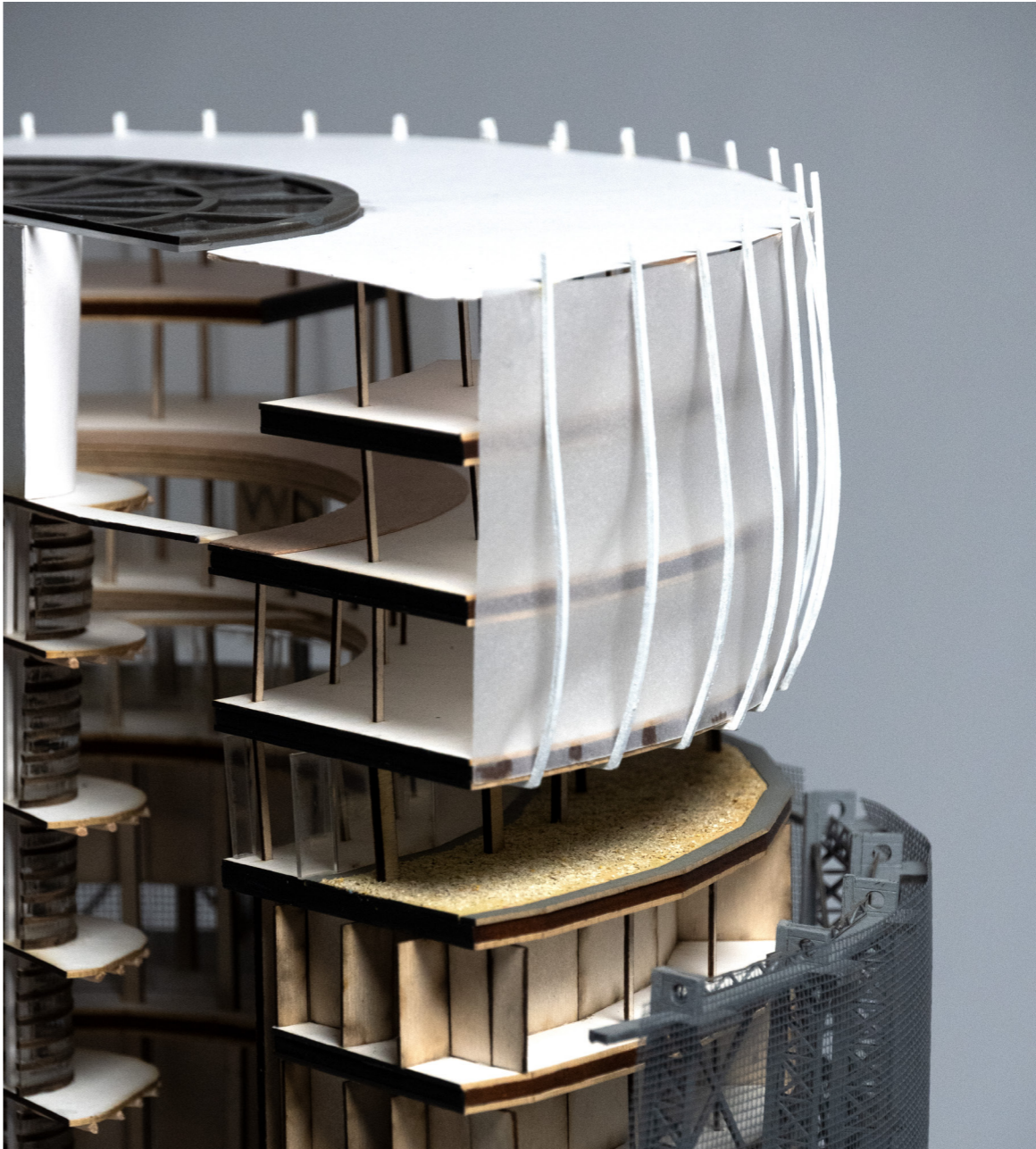


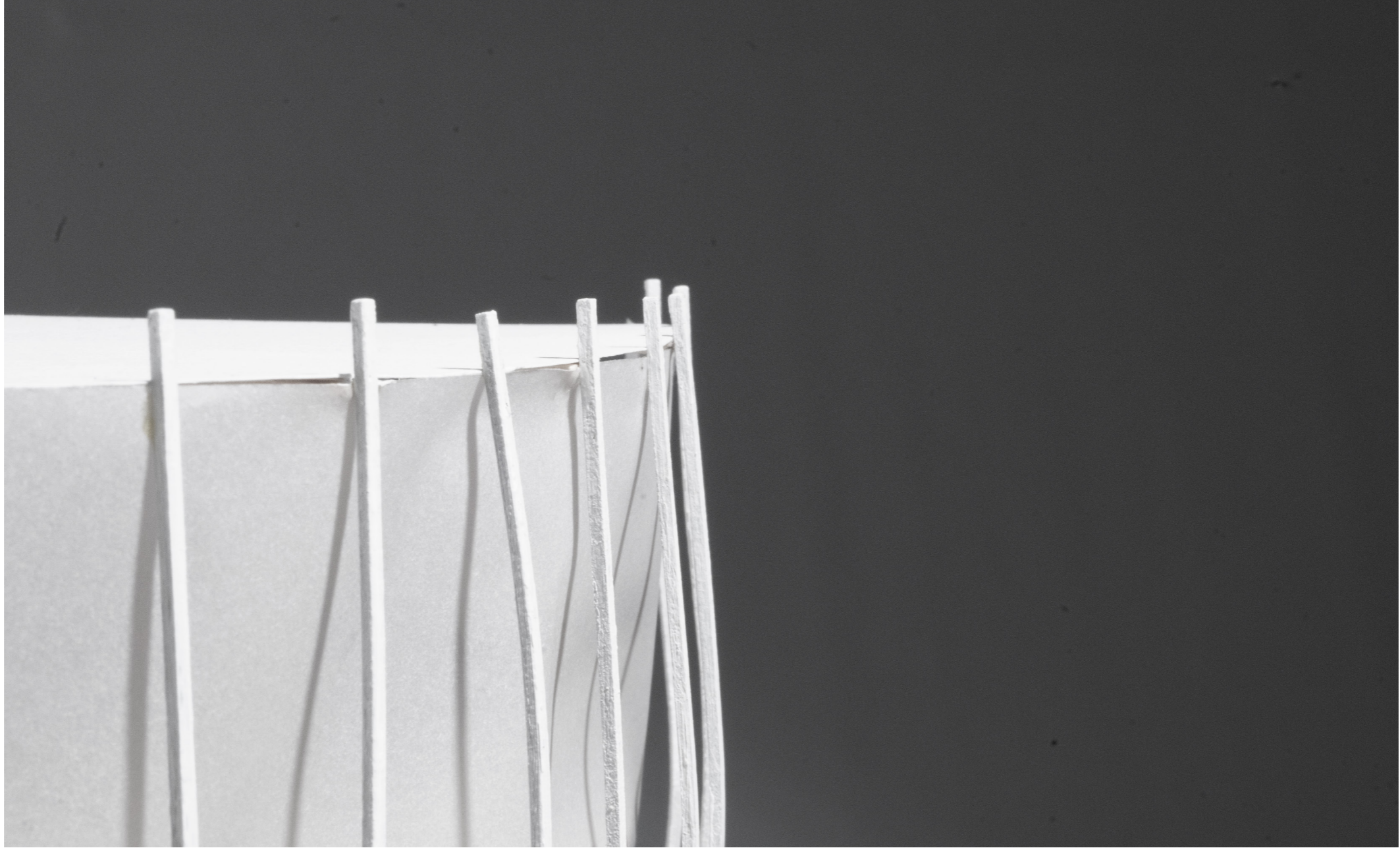


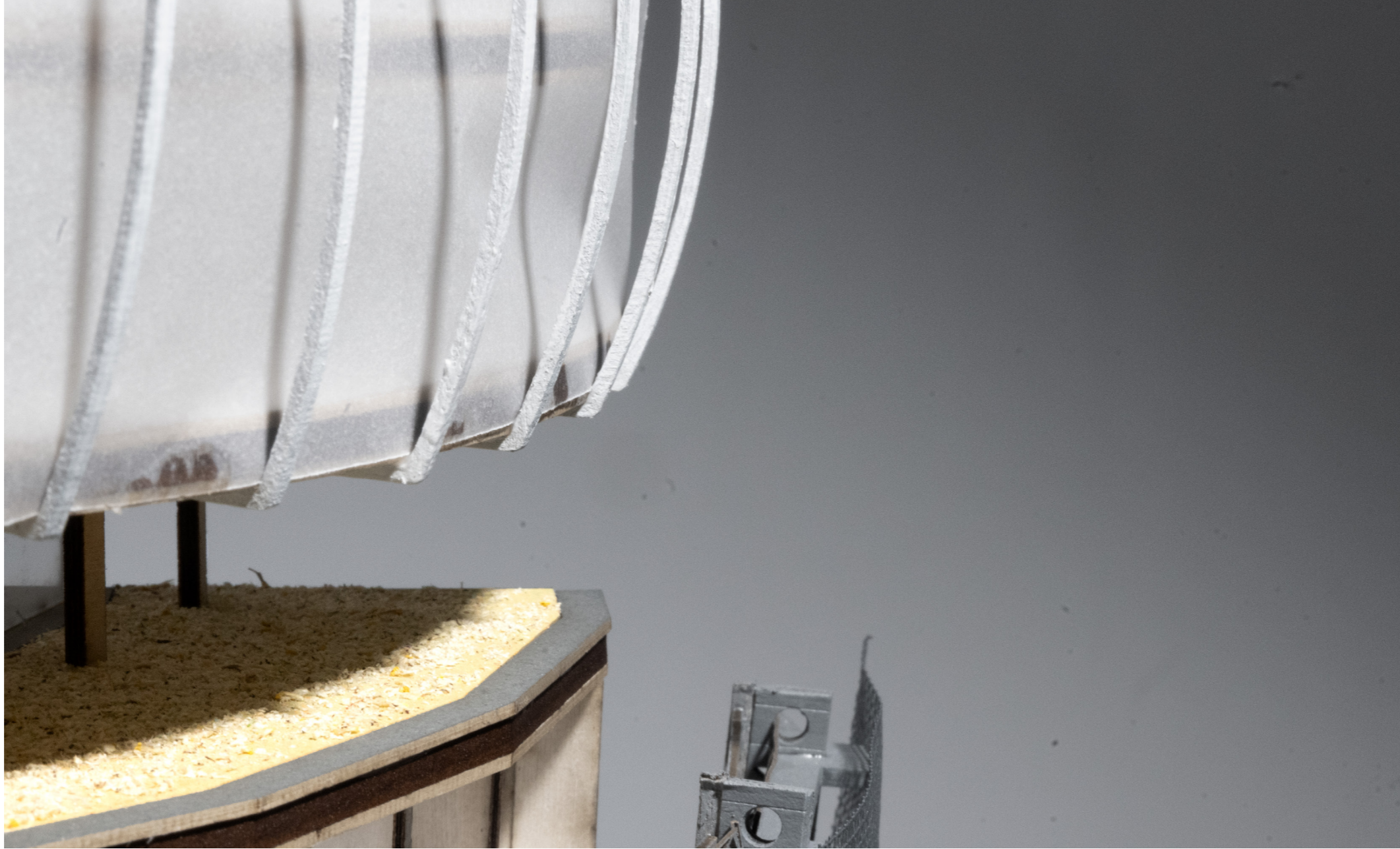


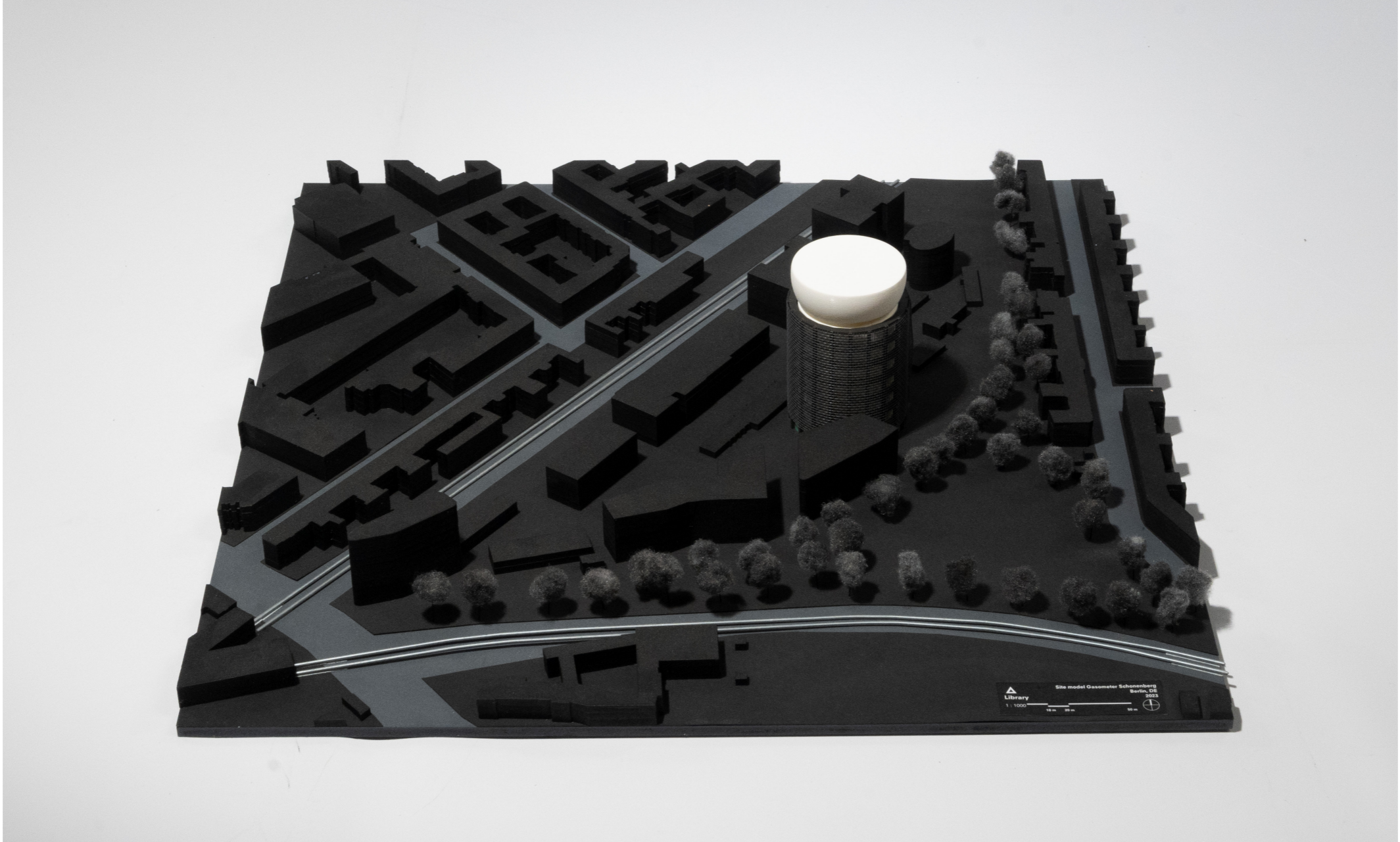
70
CAMPUS
EUREF

MODELS









Site Model Ossometer - Schomburg
Berlin, DE
2023
Library
1:1000
0m 10m 20m

