

**P5**

# **Public Takeover**

Building a Common Ground through Public Infrastructure

**The Hague | Green Border**

**Muge Elmas**



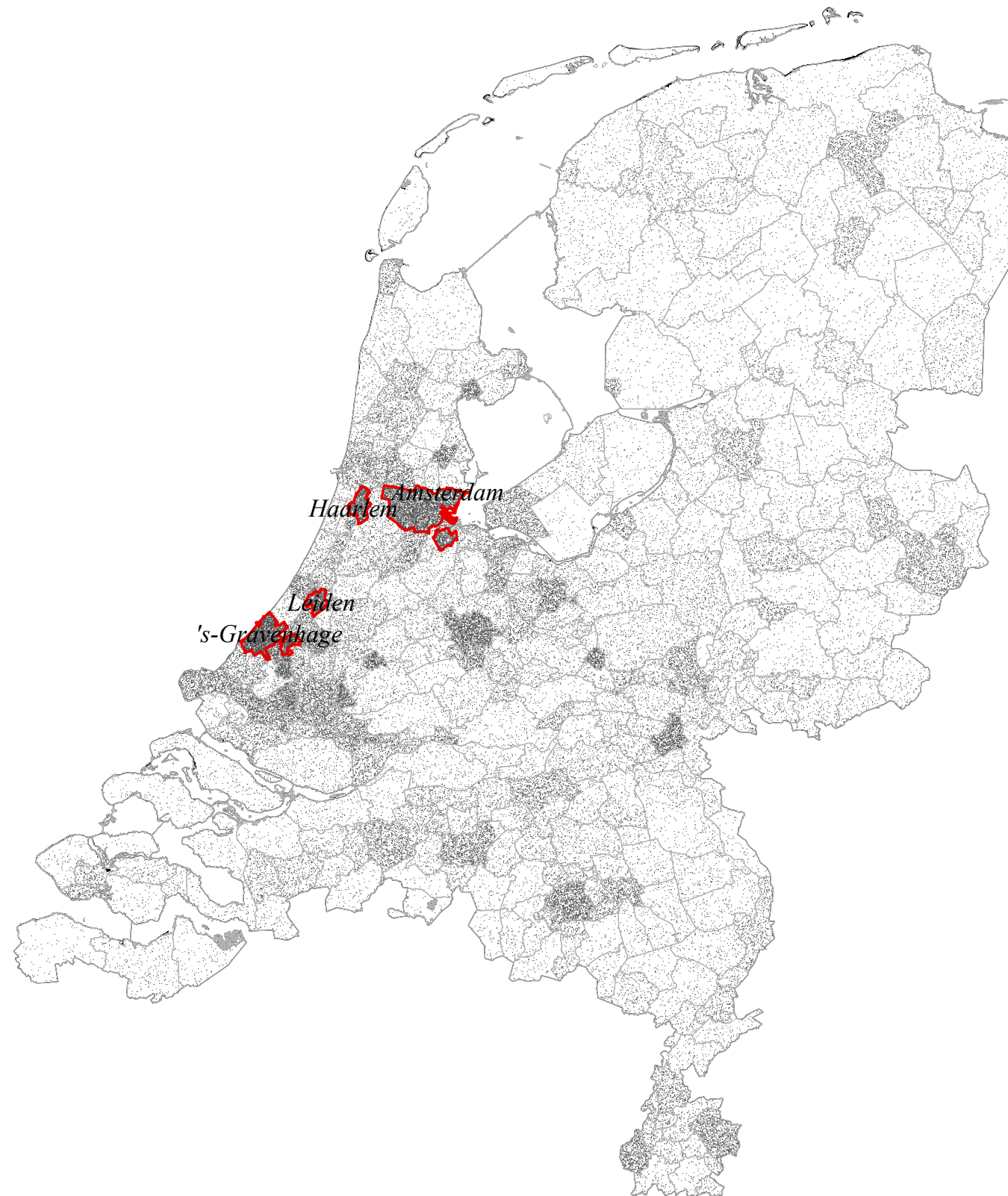
# VERTICAL CAMPUS

“The Graduation Studio’s assignment is to design a hybrid building for higher education in the center of The Hague... Create **hybrid, resilient, futureproof** designs that are transformative, conducive, and durable in the broadest sense.”

public building studio manual  
2023-24

## DESIGN ASSIGNMENT

# INTRODUCTION



## THE HAGUE: CITY IN DENSIFICATION









## EMERGING NEEDS

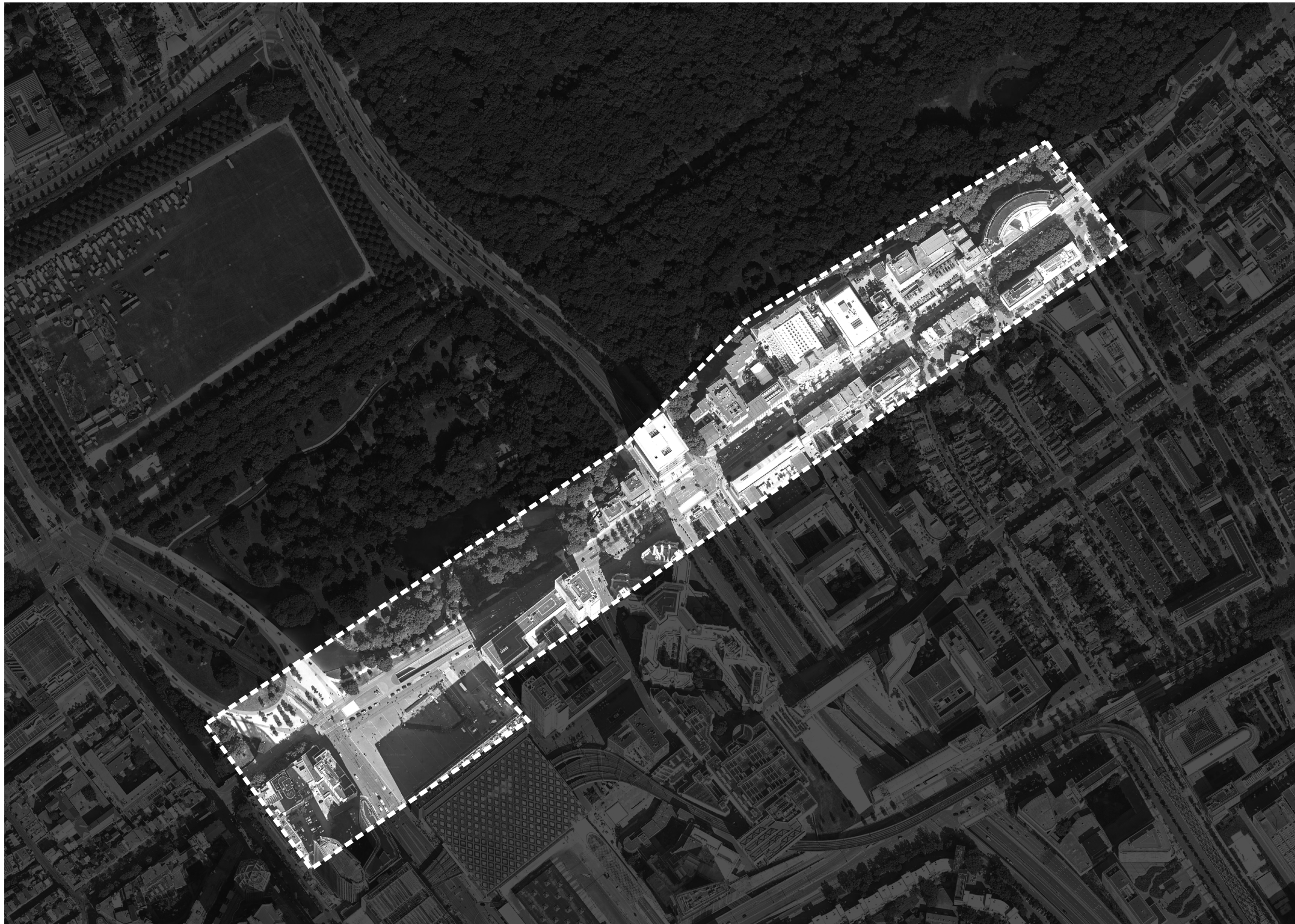


## HIGH-RISE HYBRID BUILDING



# Problem Statement





## SITE: GREEN BORDER



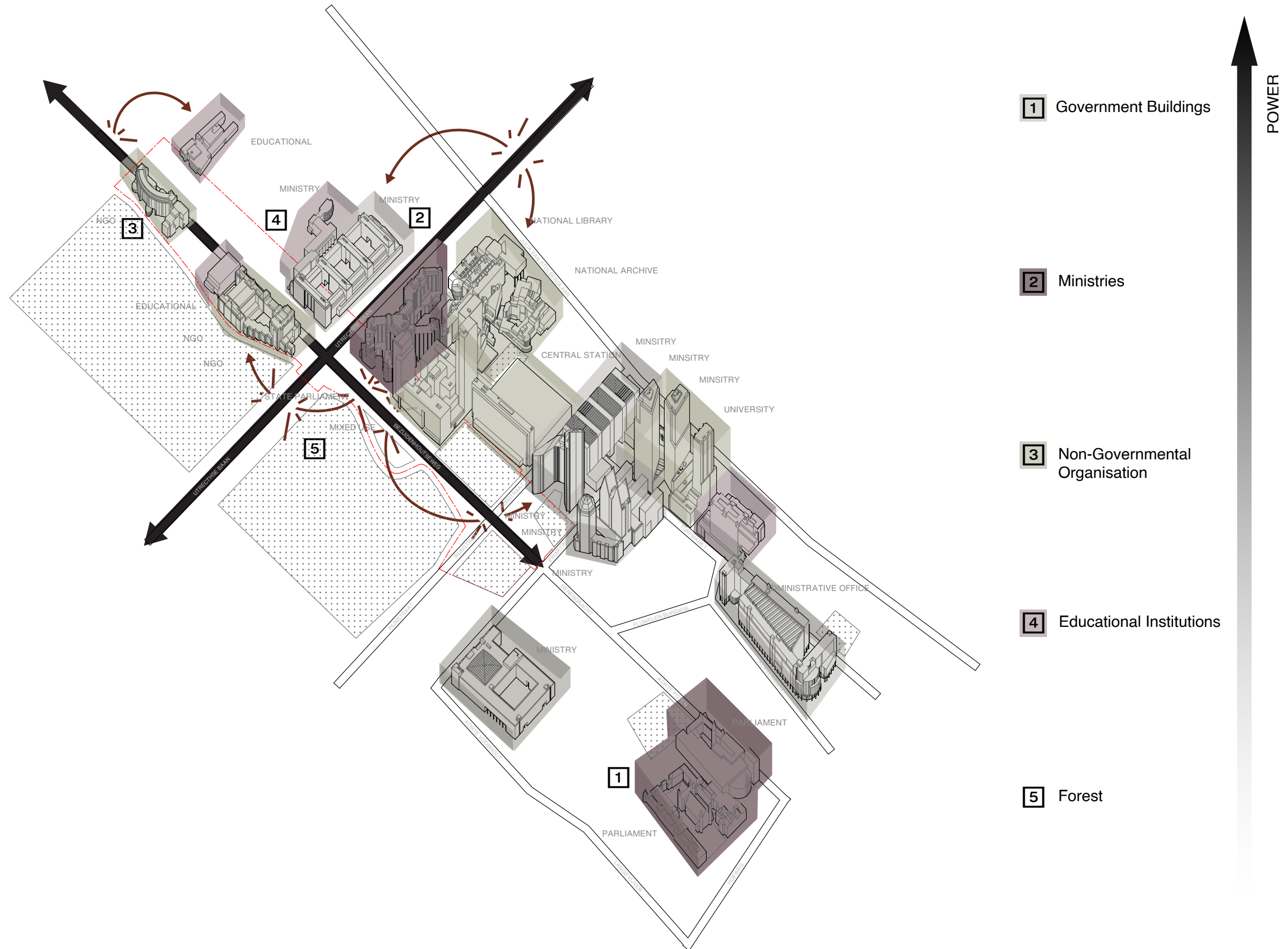


# CENTERS OF DECISION MAKING



- Legend**
- Base Map**
- Forest
  - Soil Ground
  - Buildings
- Power Clusters**
- Governmental
  - NonGovernmental
  - Ministerial Buildings
- Educational Institutions**
- Educational Institutions
- Circulation**
- Public Entrances
  - Private Entrance
  - Public Flow

## EDUCATIONAL INSTITUTIONS



## CURRENT CONNECTIONS IN GREEN BORDER





## PUBLIC ACCESS TO BUILDINGS



Governmental Operational & Advocacy offices



National Ombudsman



UNICEF Nederland



Temporary House of Representatives



PBL Netherlands Environmental Assessment Agency



NGO's i.e. Netherlands Nutrition Center, World Resources Institute



Economic and Social Council (SER)



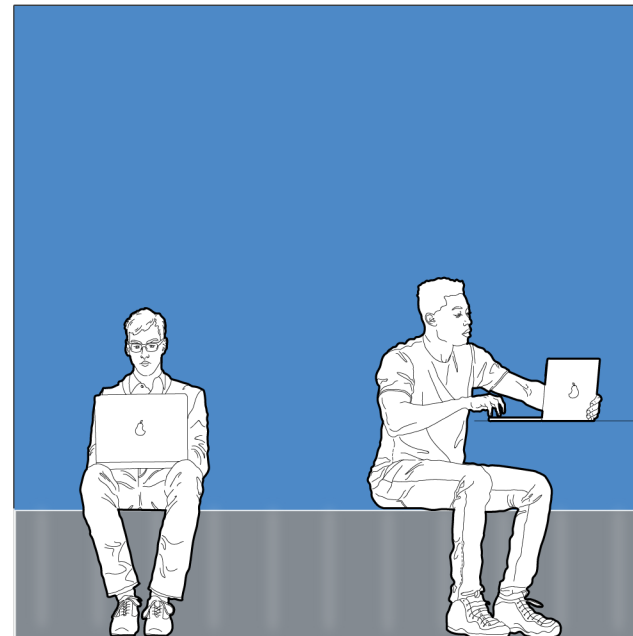
Ministry of Education, Culture and Science



Ministry of Agriculture and Ministry of Economic affairs and Climate



Employees



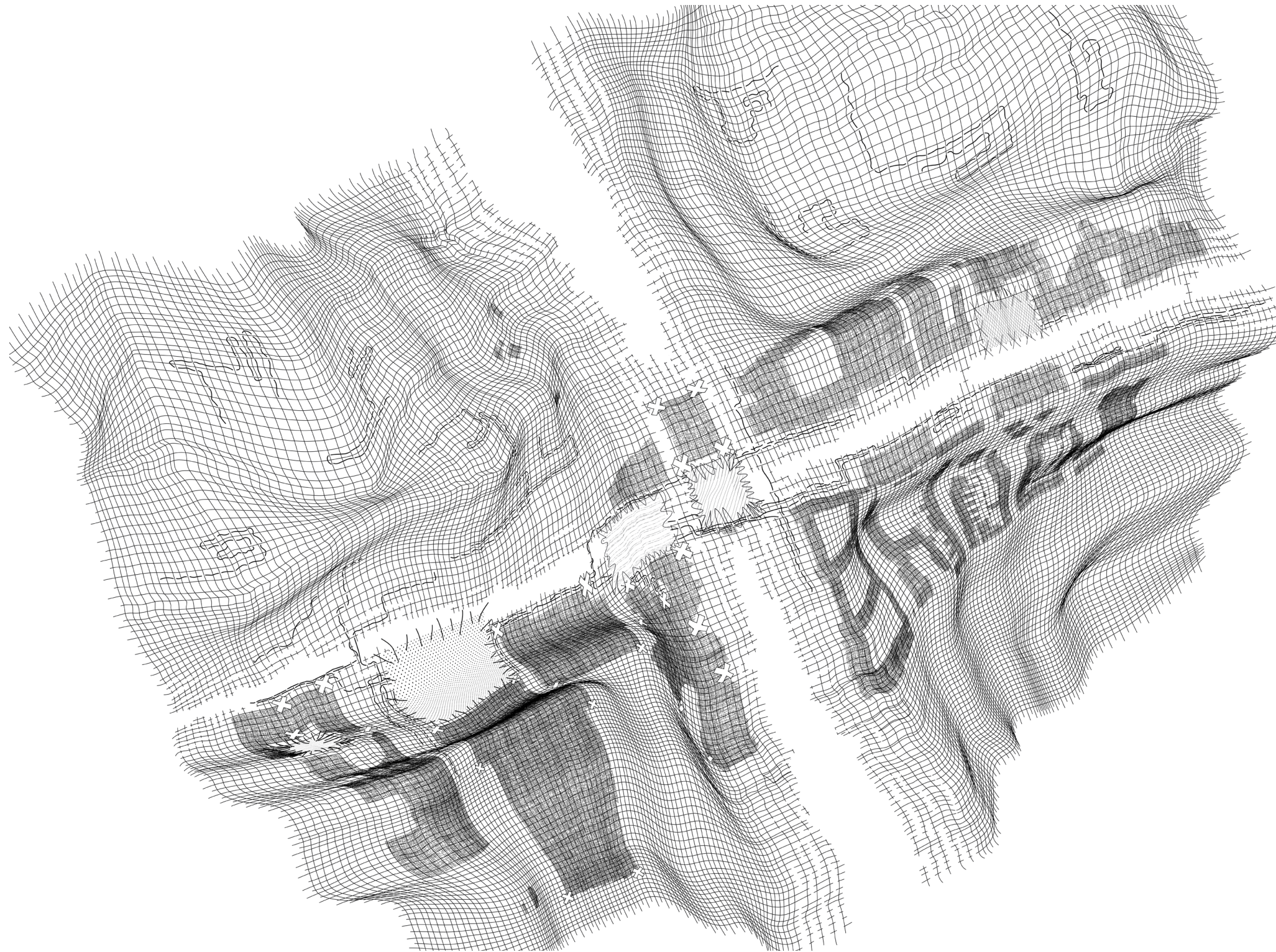
Students



Senior citizens

## DIFFERENT USER GROUPS SAME PAINPOINT





**Tearing**  
Certain parts of the fabric are torn apart. These tears represent the intensity of physical & visual borders.



**Pinning**  
In some places the fabric has been pinned down. These parts aren't going anywhere and serve as a means of wayfinding.



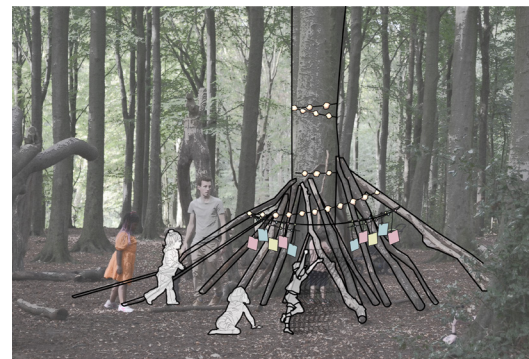
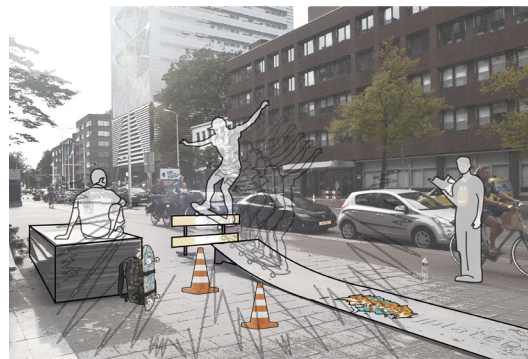
**Weaving**  
New threads have been woven throughout the fabric. These represent how people have appropriated the public space.



**Patching**  
Some parts are so far gone that weaving it back together will no longer suffice. These are covered up by entirely new patches of fabric.

## PSYCHOGEOGRAPHICAL MAP

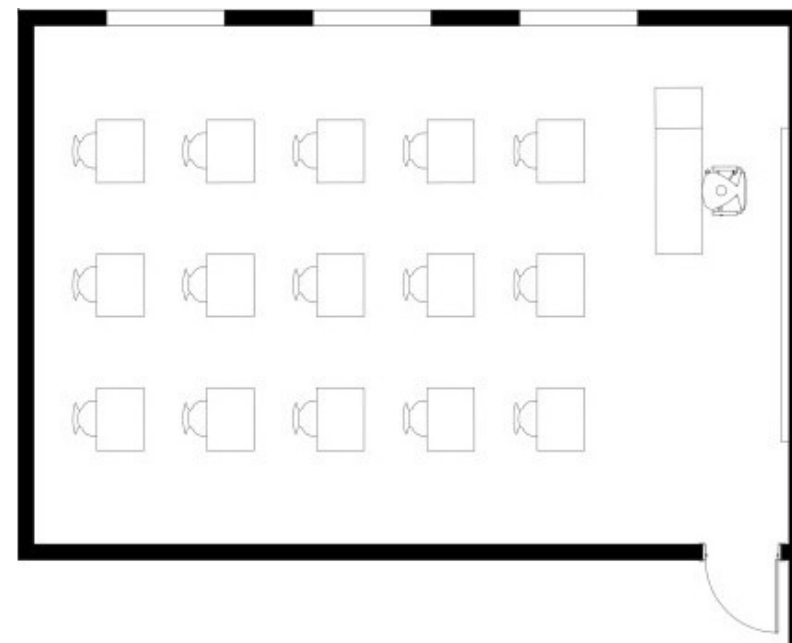




REFLECTING ON THE LEVEL OF AUTONOMY PEOPLE HAVE IN THE BUILT ENVIRONMENTS THEY INHABIT



**Learn and Discover; Studio Spaces (1.000 m2)**  
Studio spaces will provide an outstanding environment for interaction between staff and students as well as for peer-to-peer learning with a level of containment and acoustic privacy for approximately 20 groups of 16-20 students per group.



**“LOOK AROUND”**

Design Brief from PB. Studio Booklet

Layout

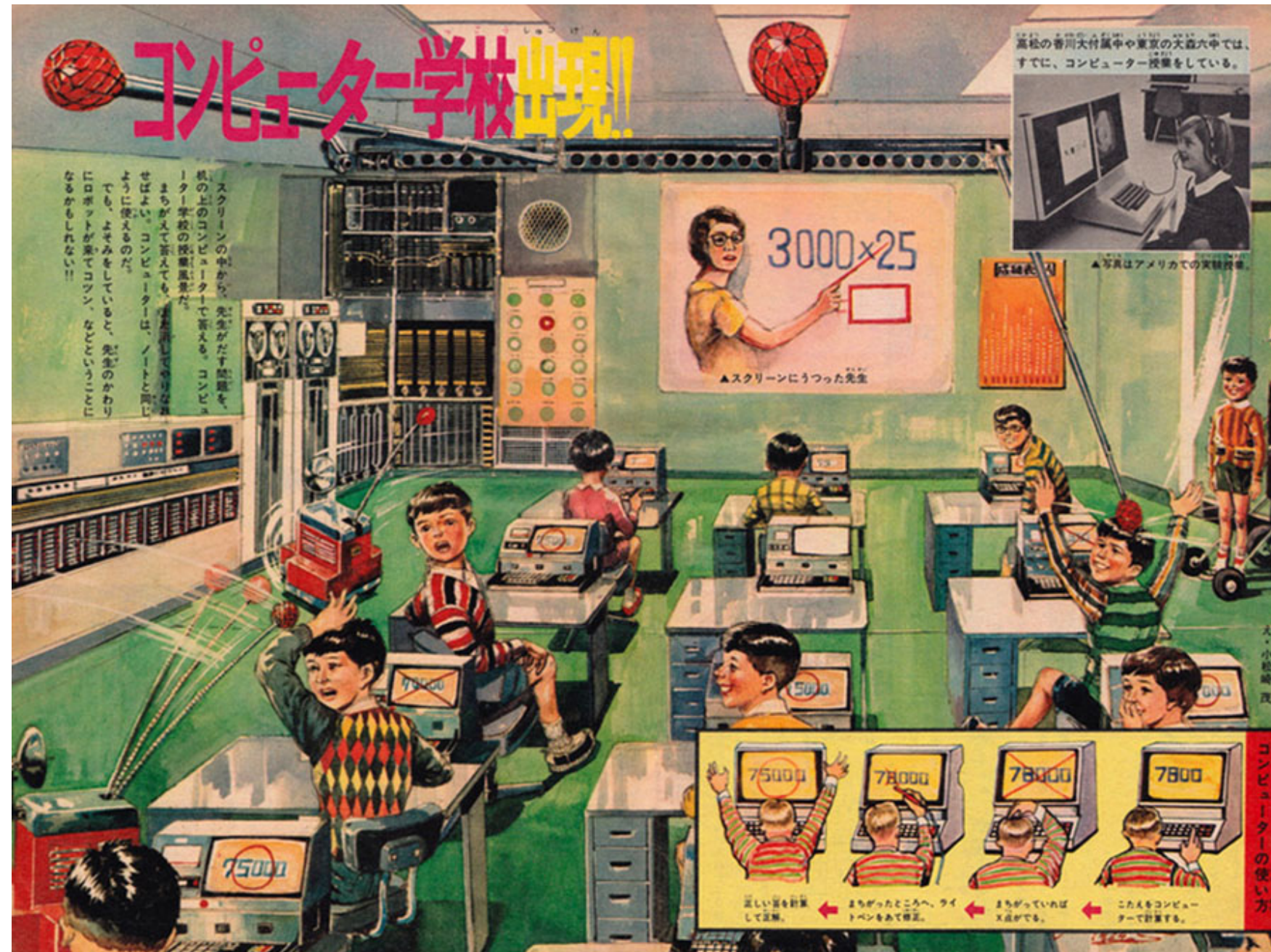
Manufactured

**CONSIDER WHAT A “CLASSROOM” IS?**

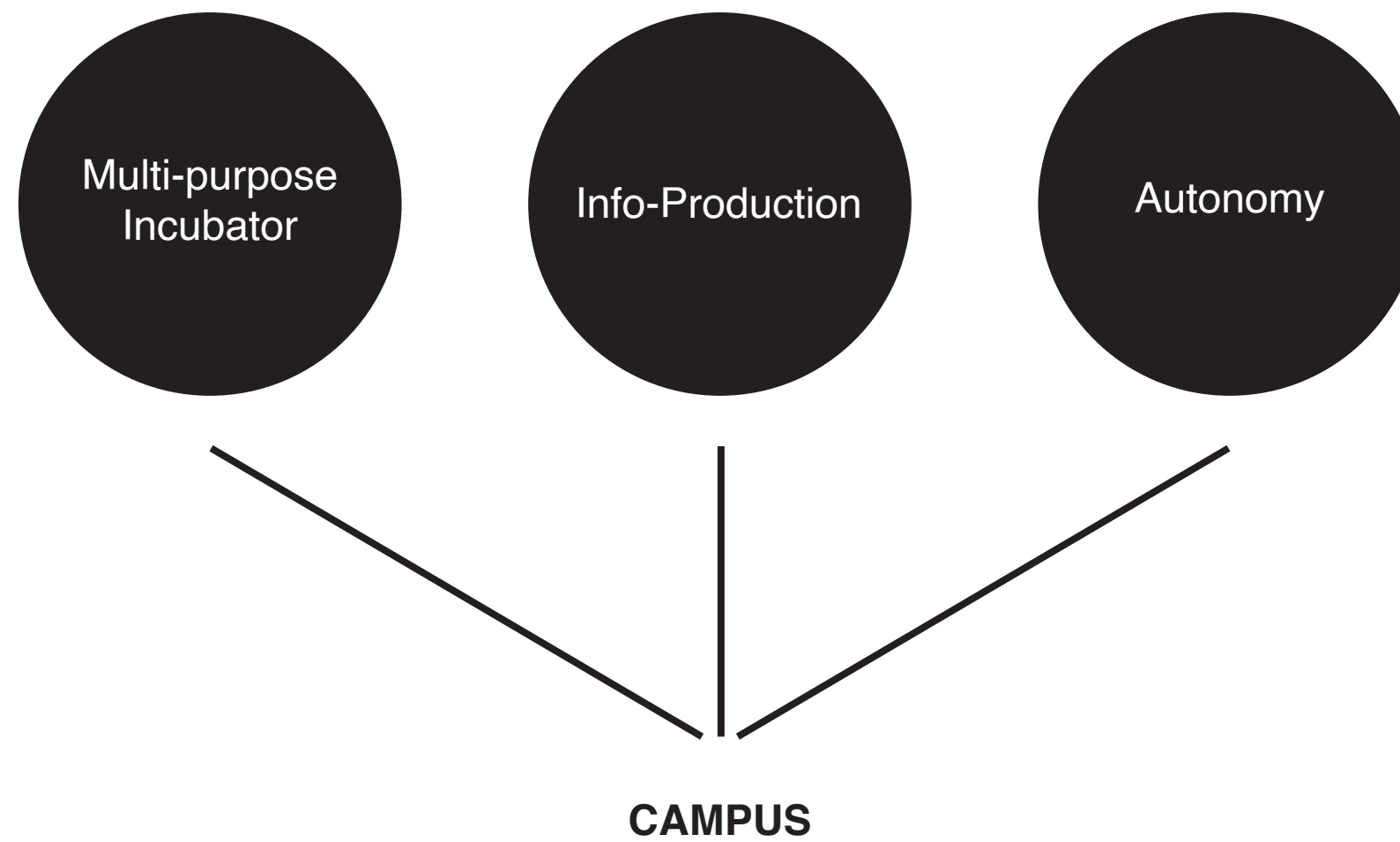
Sex on the kitchen table might not be a transgression but exactly what we are supposed to do.

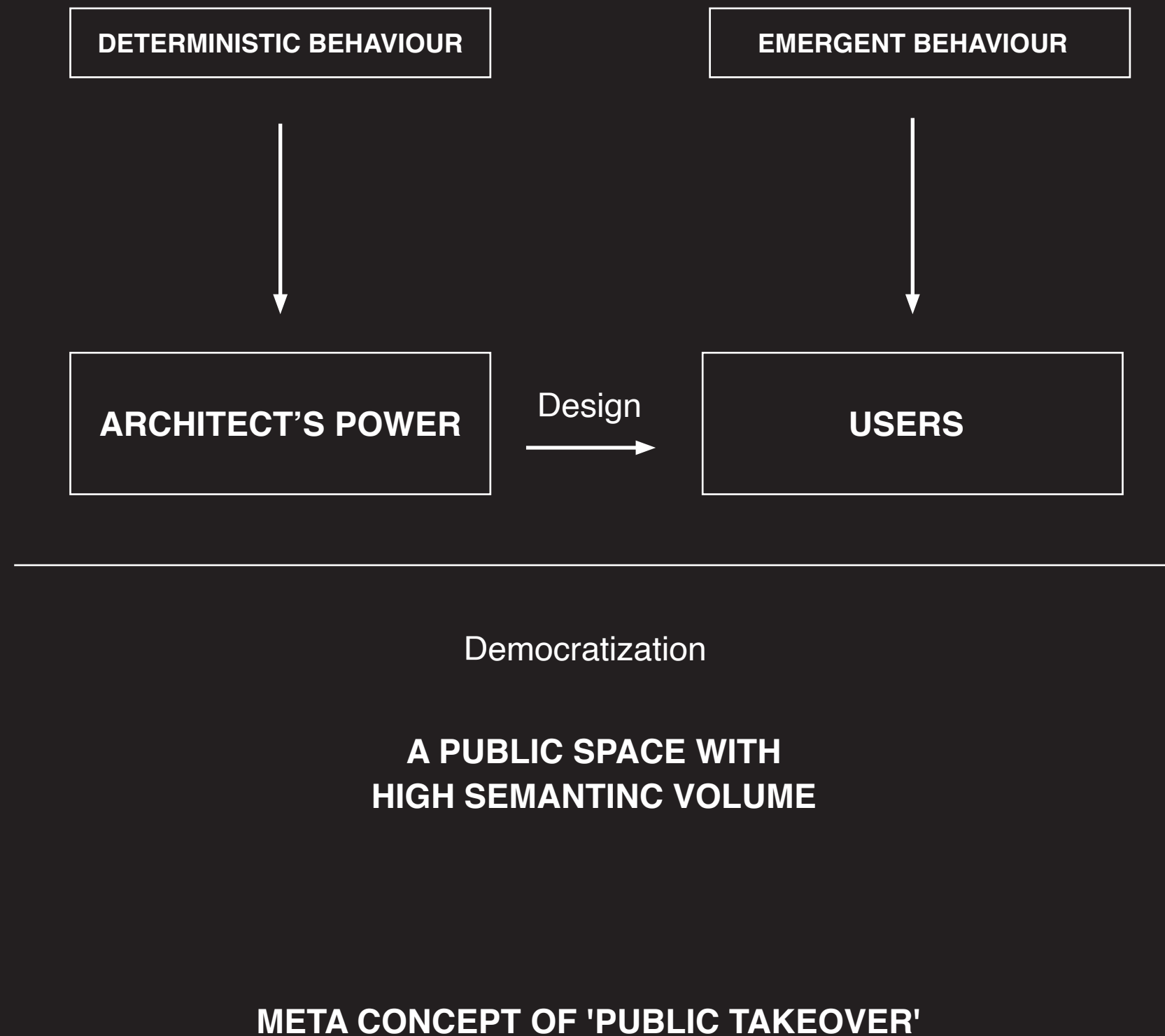
Hill (1998), *Occupying Architecture*

There is no distant future to predict or past to reconstruct; only the continuous creation of space reflecting our present experiences.



## CAMPUS OF THE FUTURE (!)





# HOW?



TO FORGE NEW MEANINGS, FIRST BEHOLD THE FAMILIAR WITH FRESH EYES





# “EXPLORE” TO TAKEOVER

RQ: HOW CAN A DESIGN PROVOKE ITS USER TO EXPLORE?

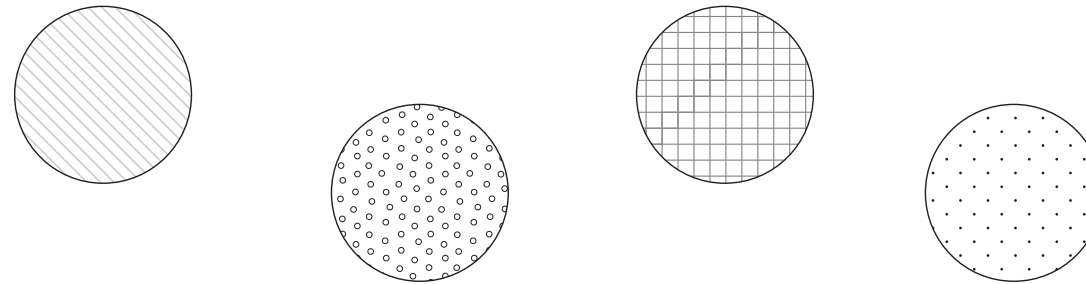




## RQ: HOW CAN A DESIGN PROVOKE ITS USER TO EXPLORE?

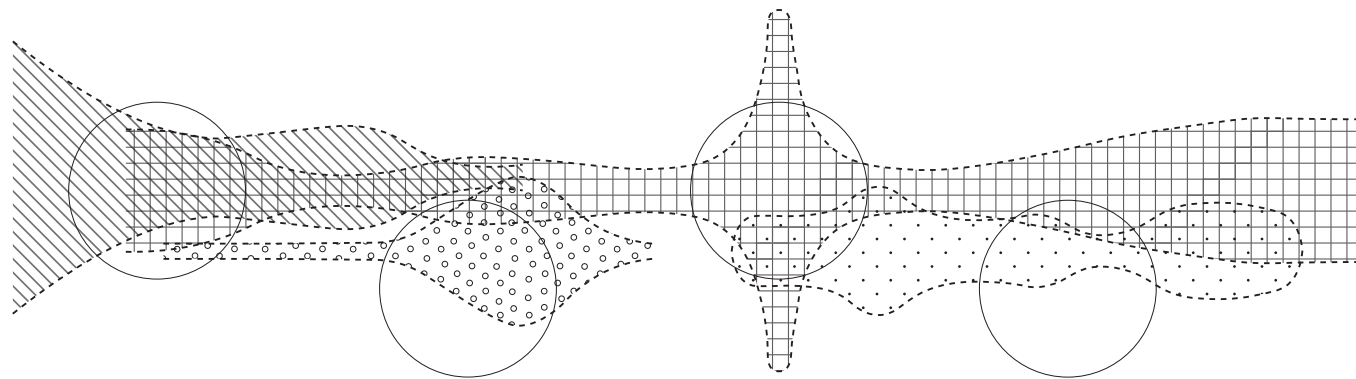
### THE INCENTIVE

programme



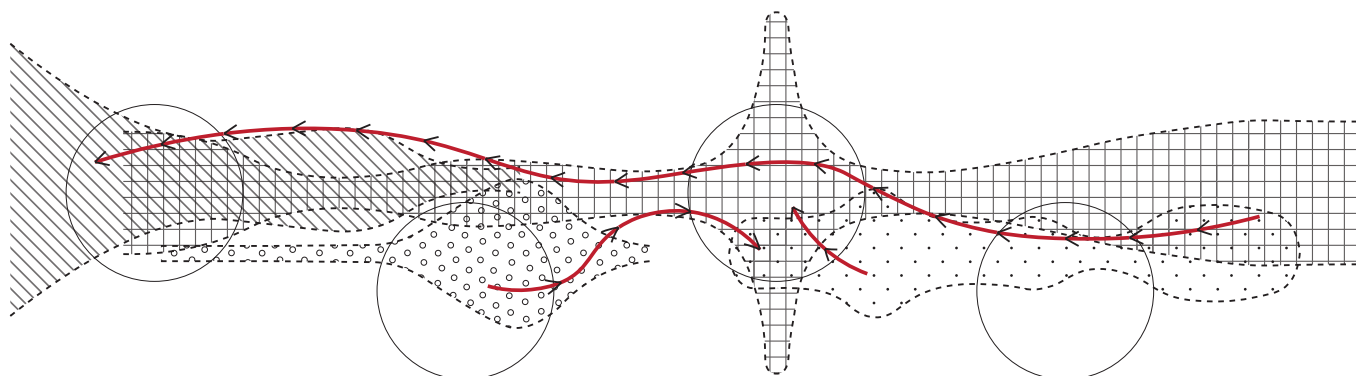
### AMBIGUITY

state of transition

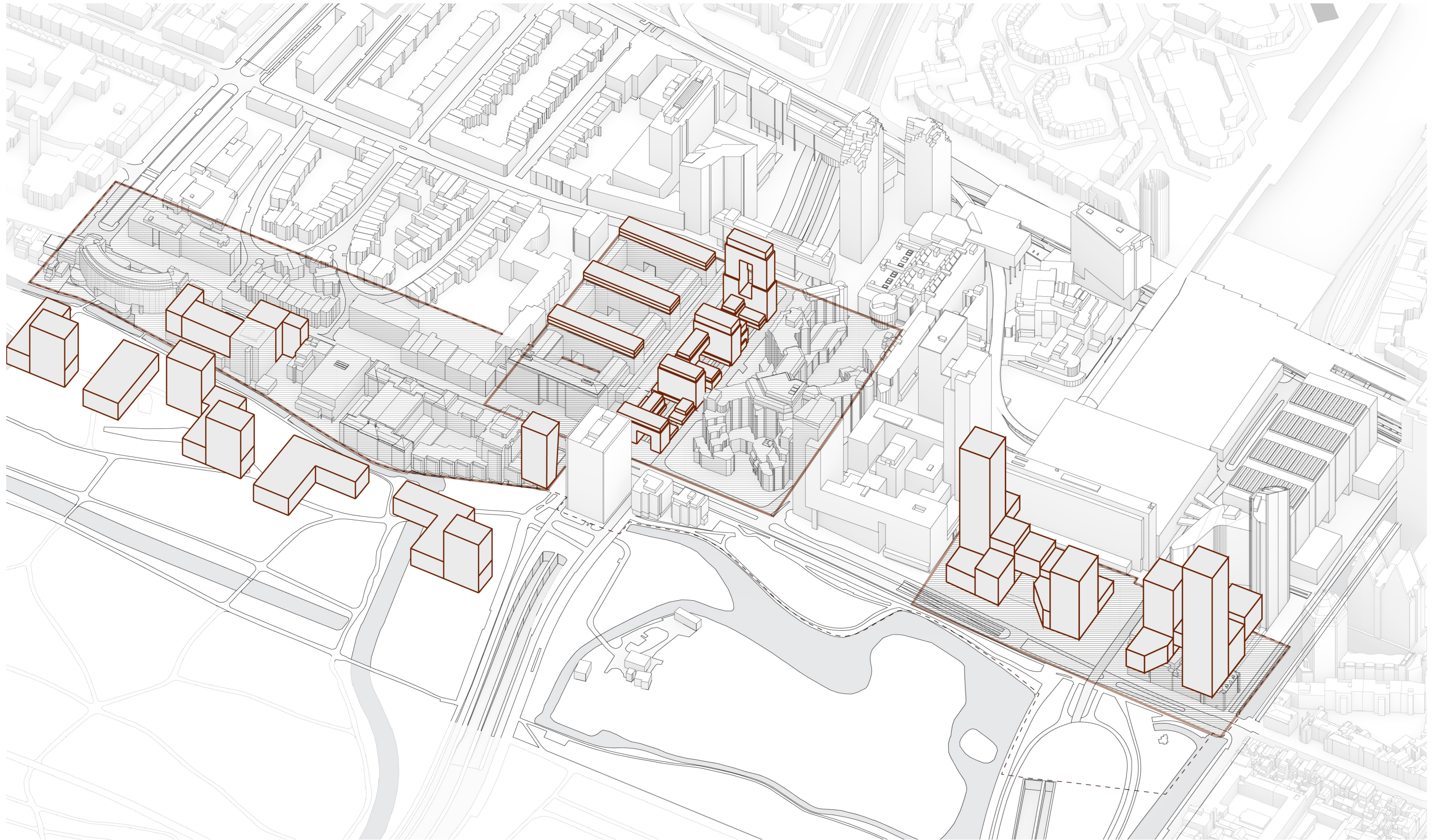


### SENSORY EXPERIENCES

the flow

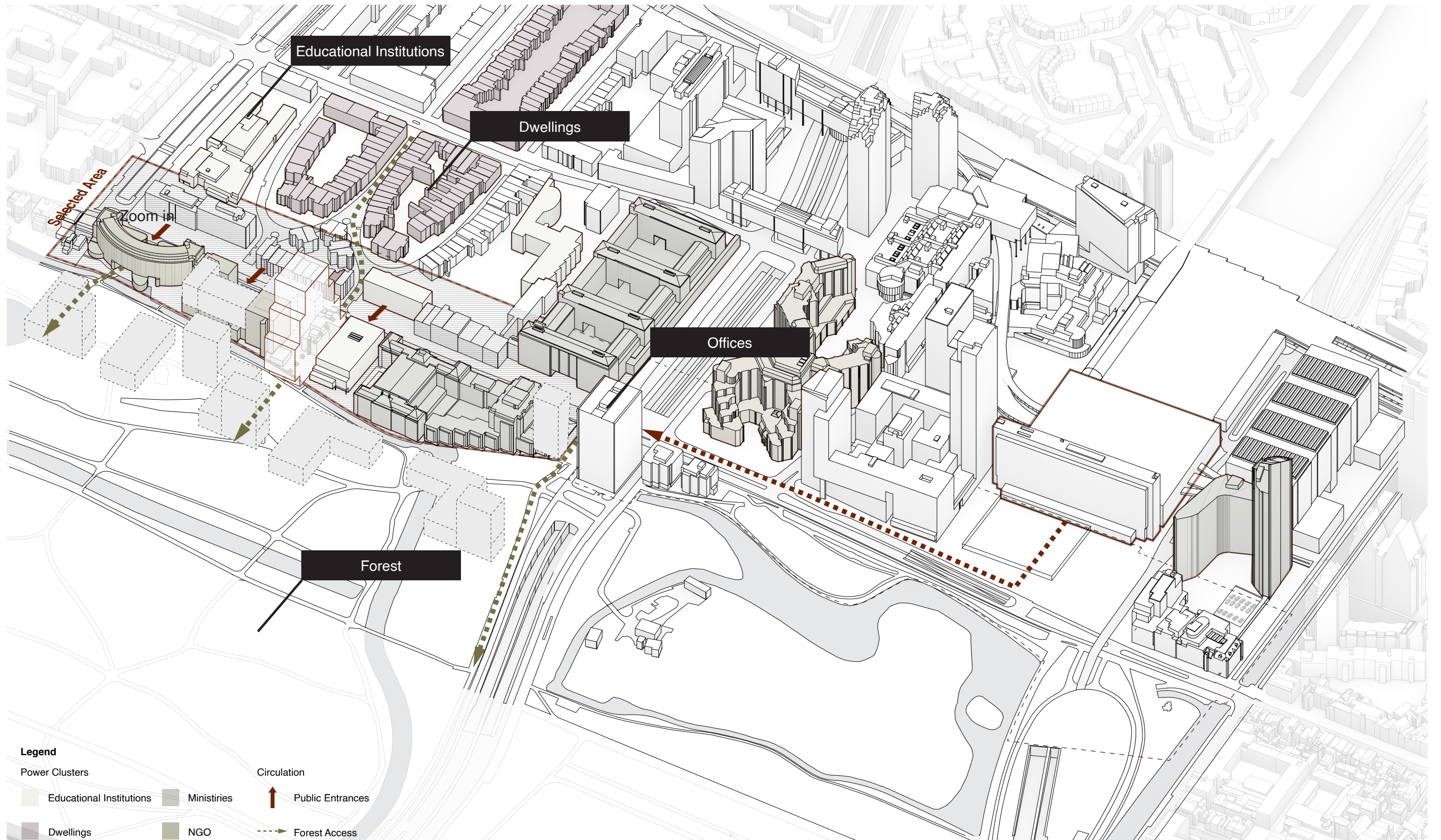


# IMPLEMENTATION



## CAPACITY PLAN



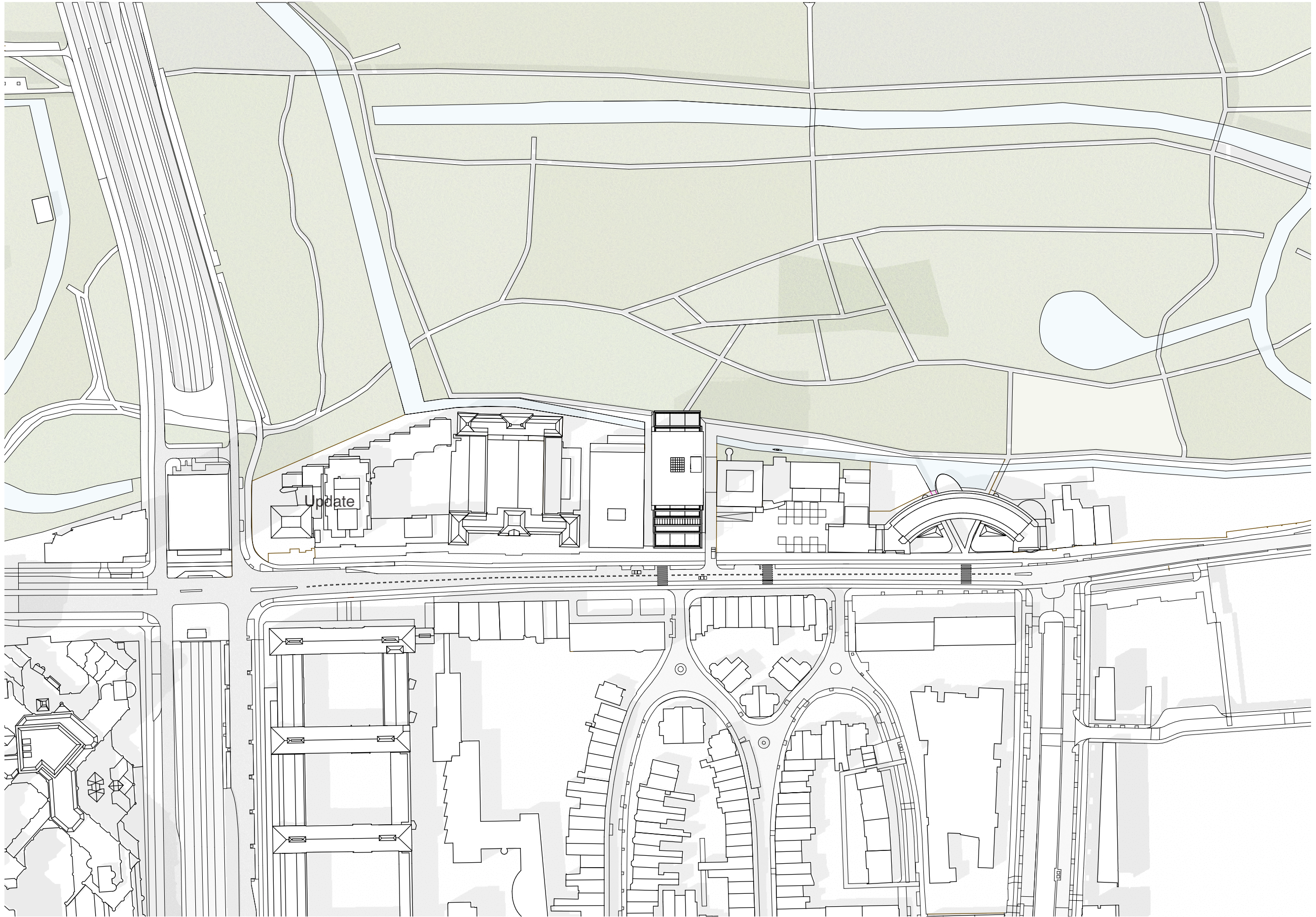


# SITE SELECTION



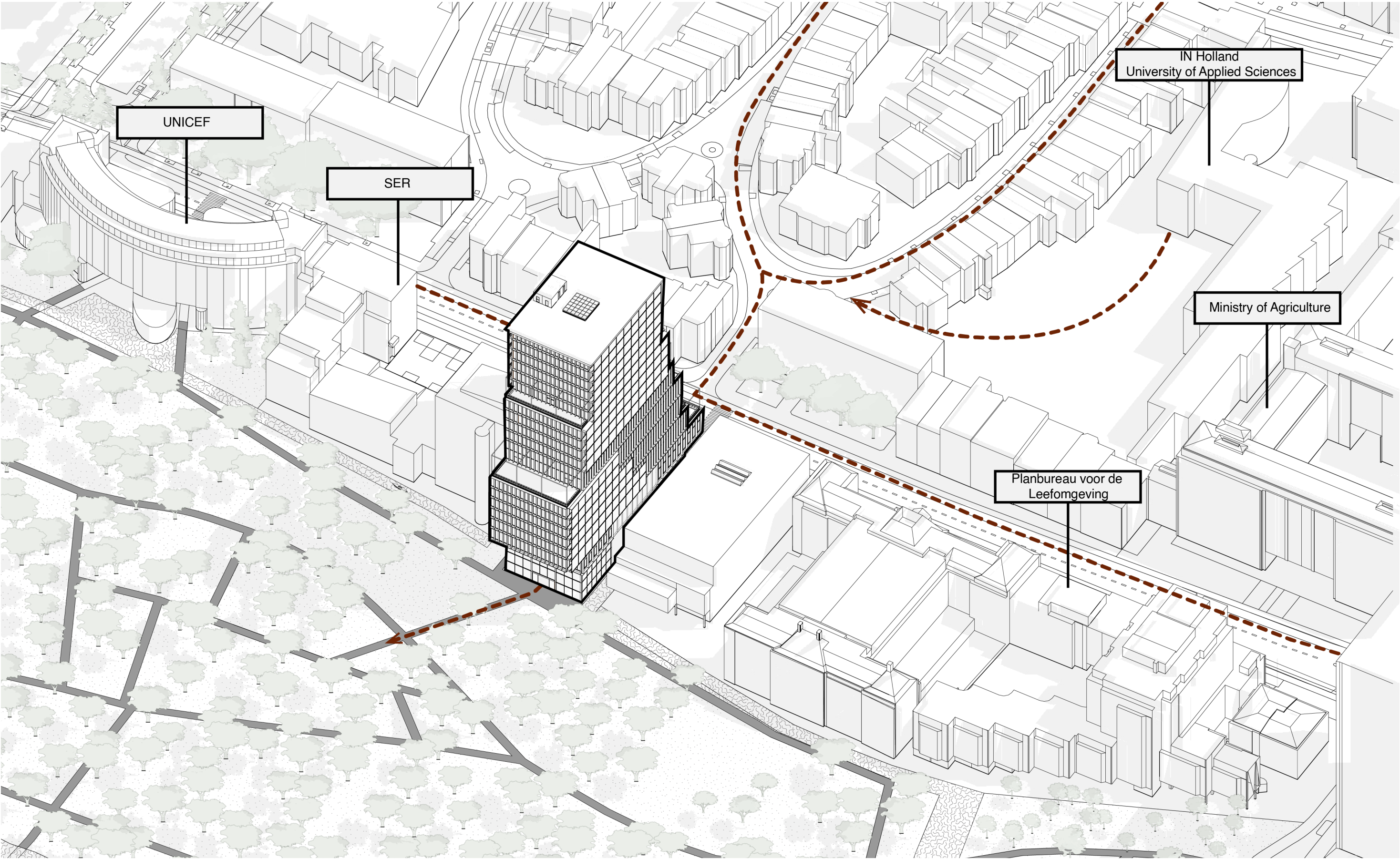






Master Plan

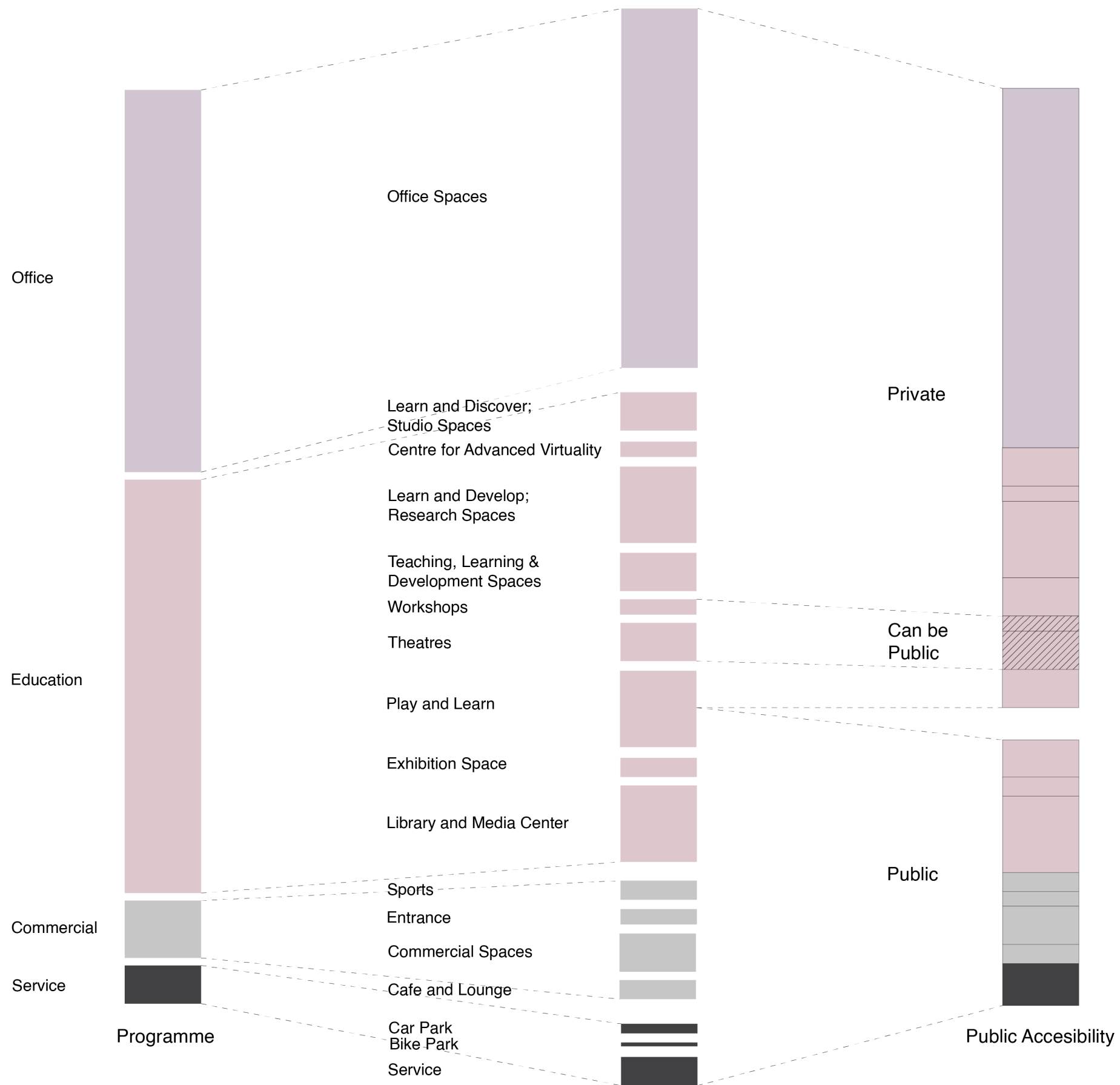




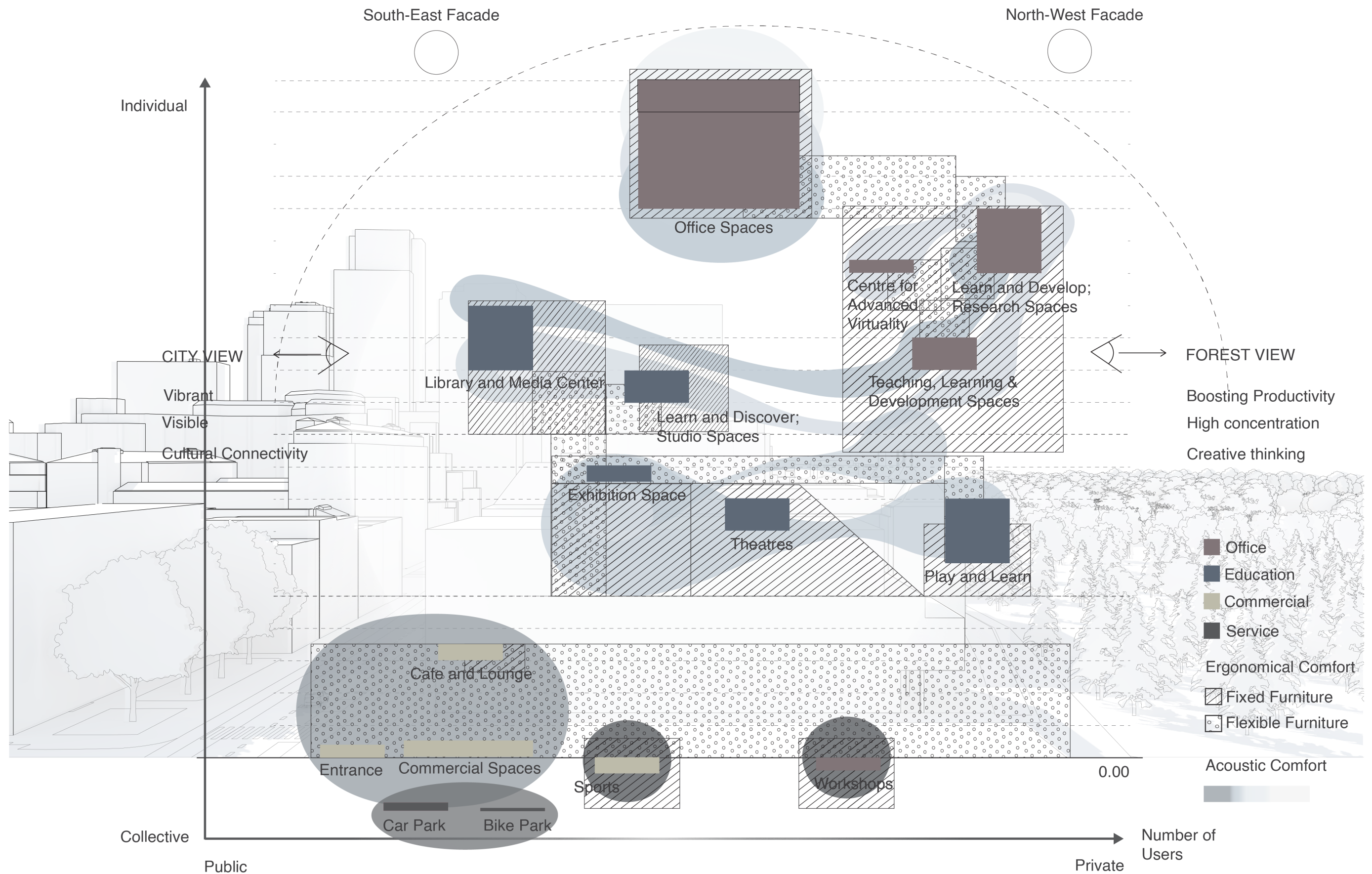




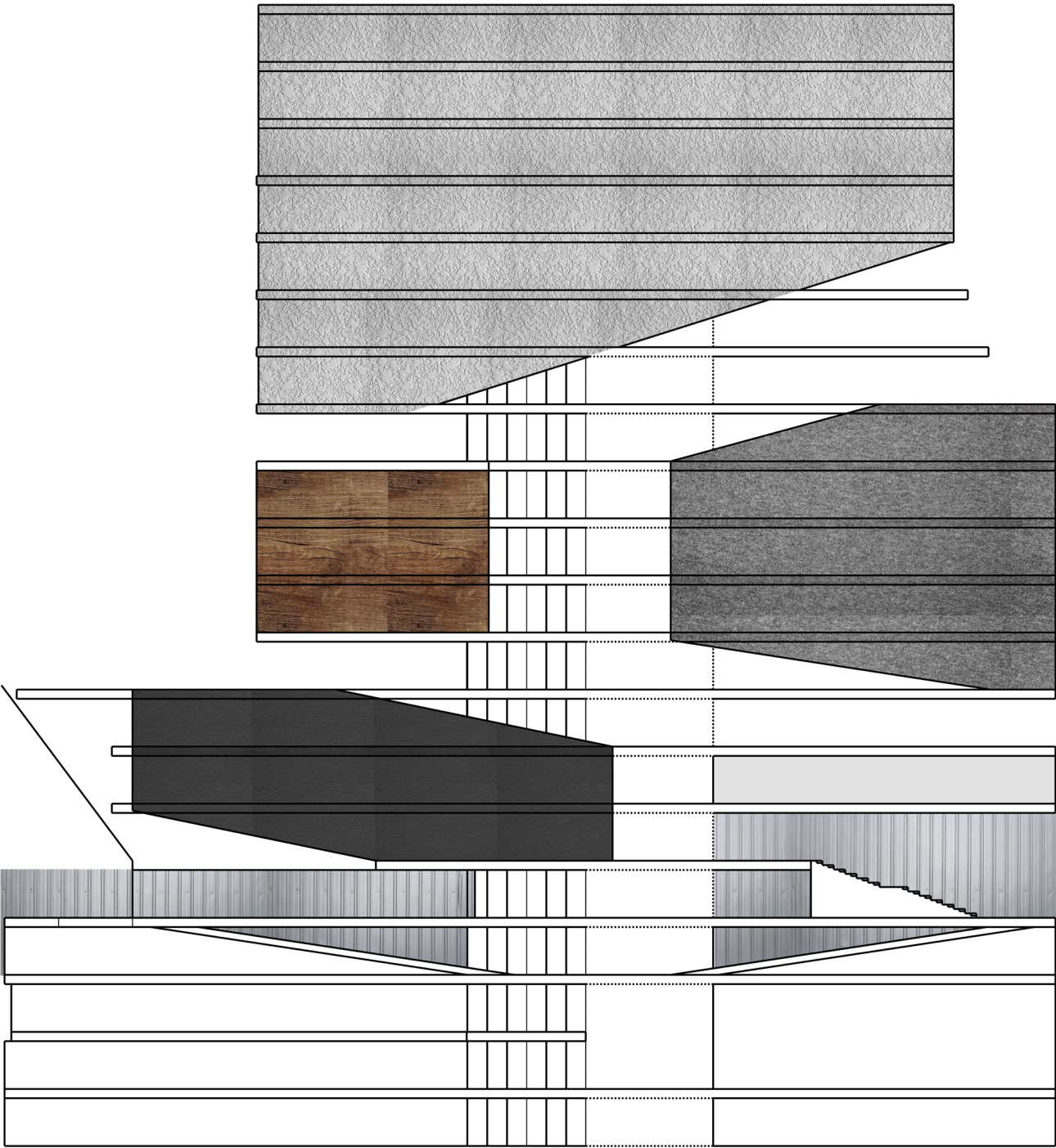






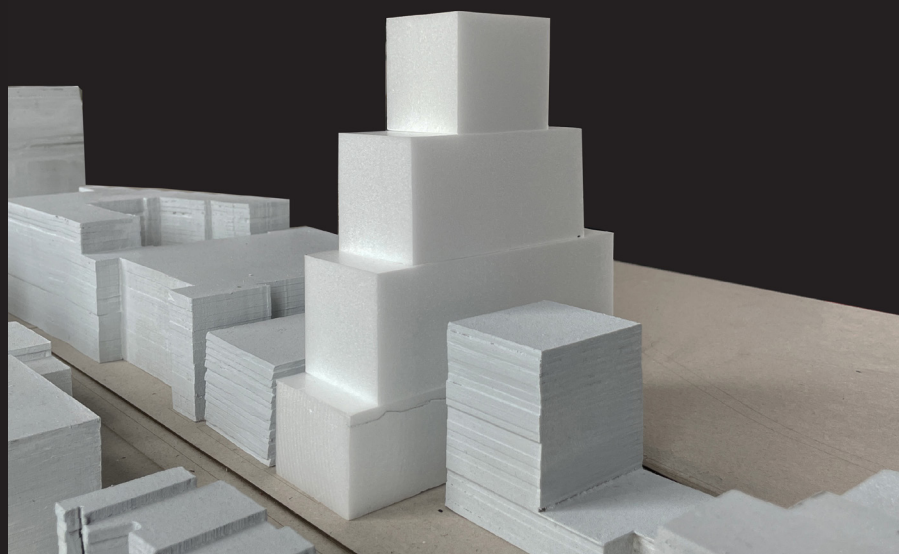


SHIFT THE DISCOURSE: FAVOR ATMOSPHERIC COHESION OVER PROGRAMMATIC STRUCTURING

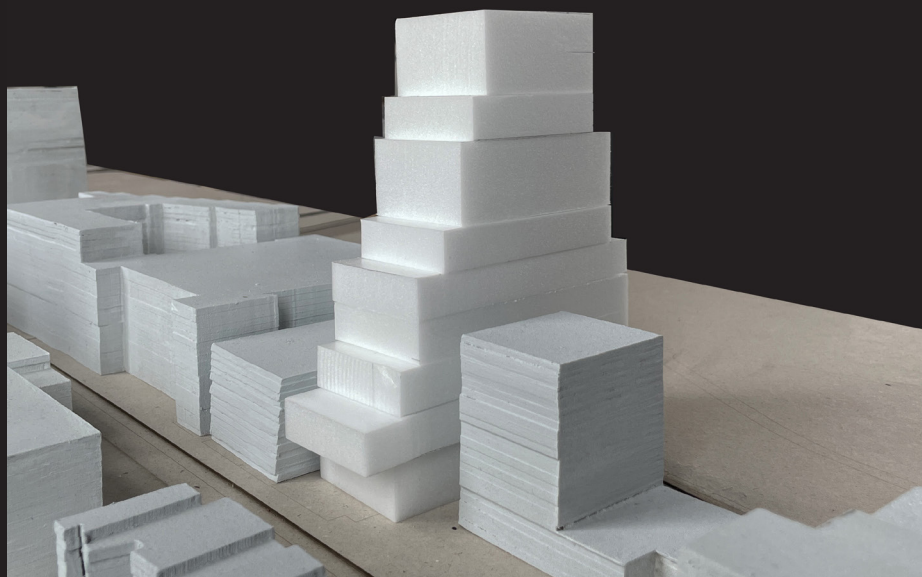


“THEMATIC” SECTION

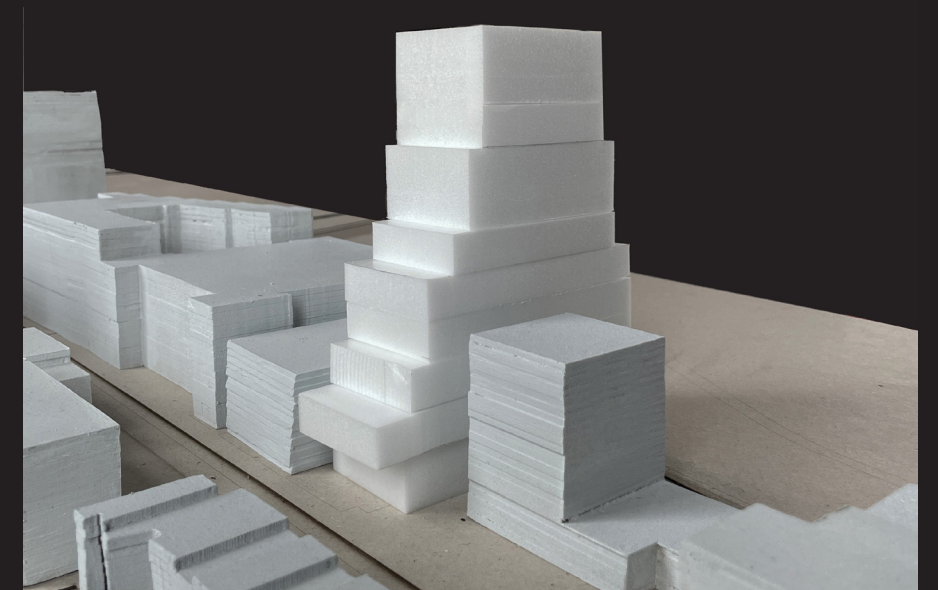




monumental

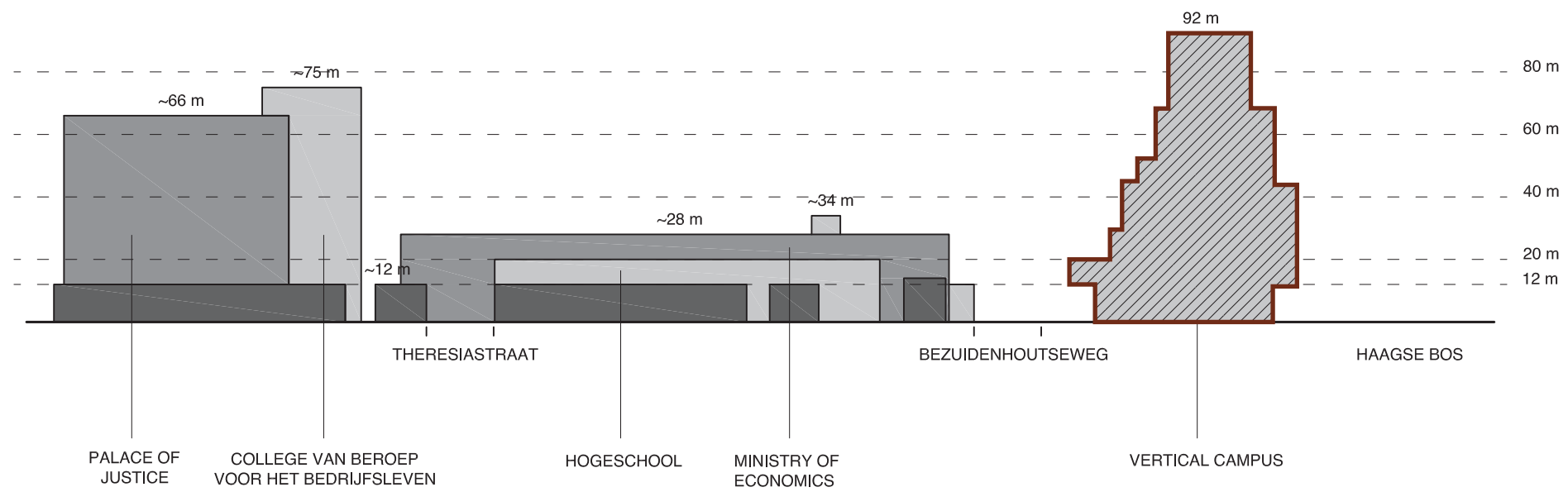
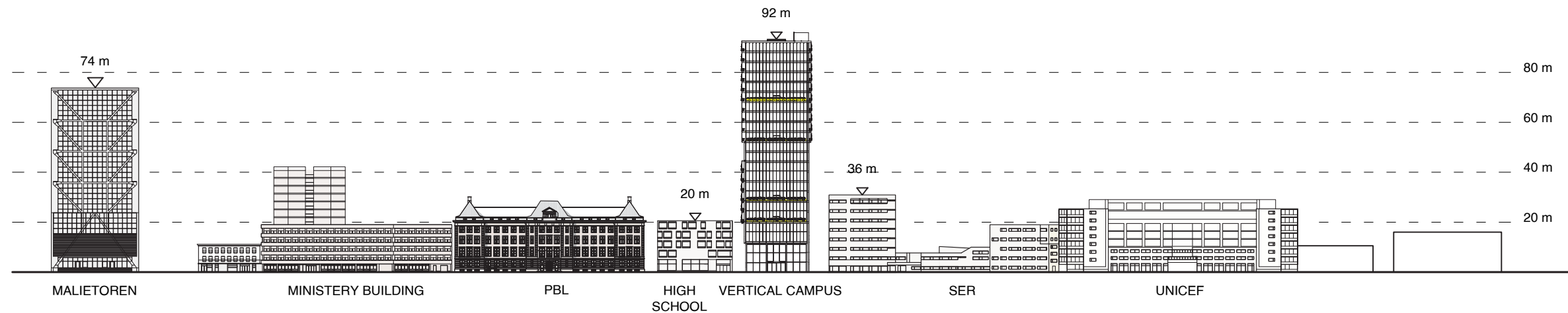


more outdoor space



more outdoor space  
emphasized crown- monumental

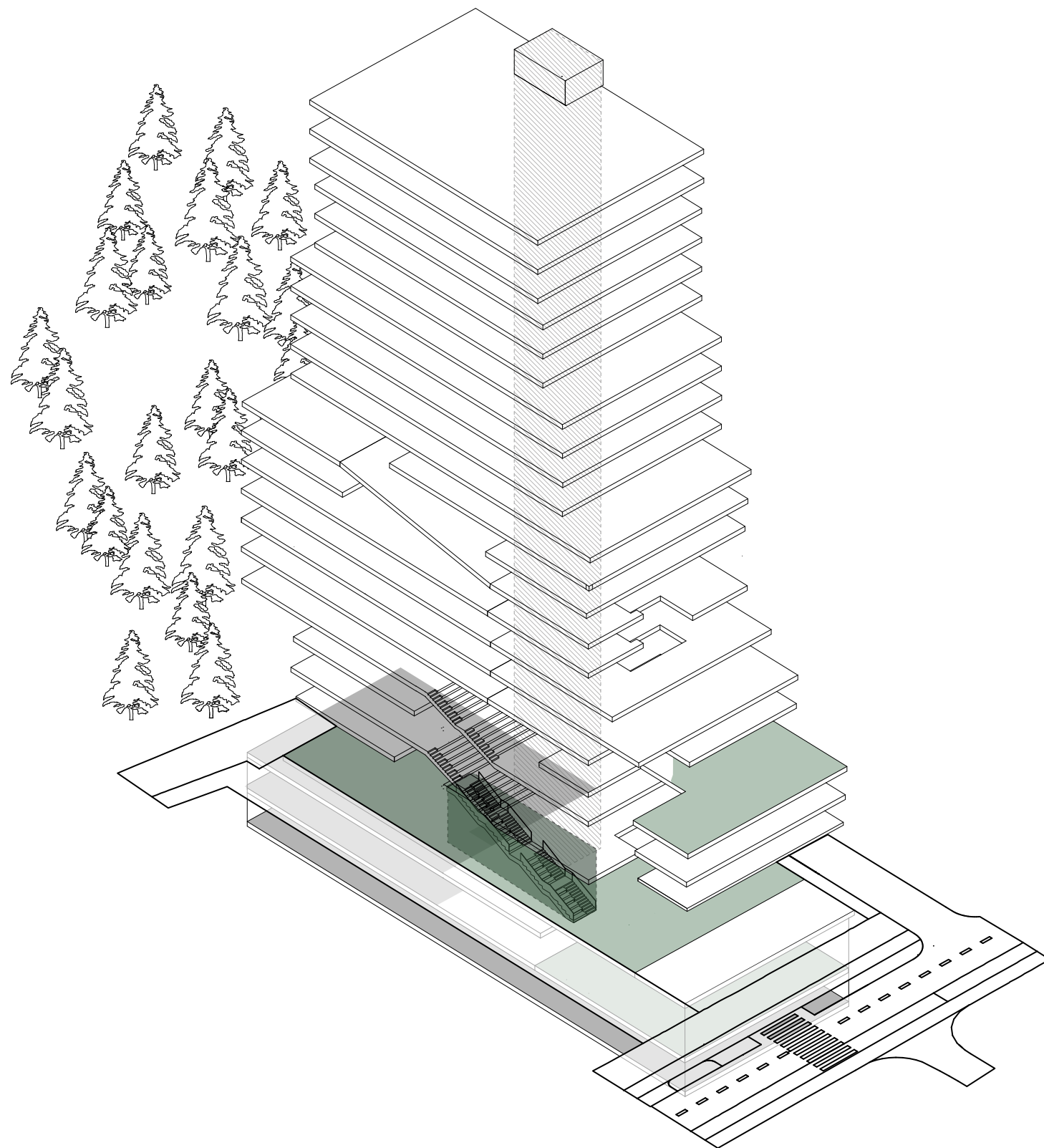
## FORM DEVELOPMENT



## Urban Silhouette



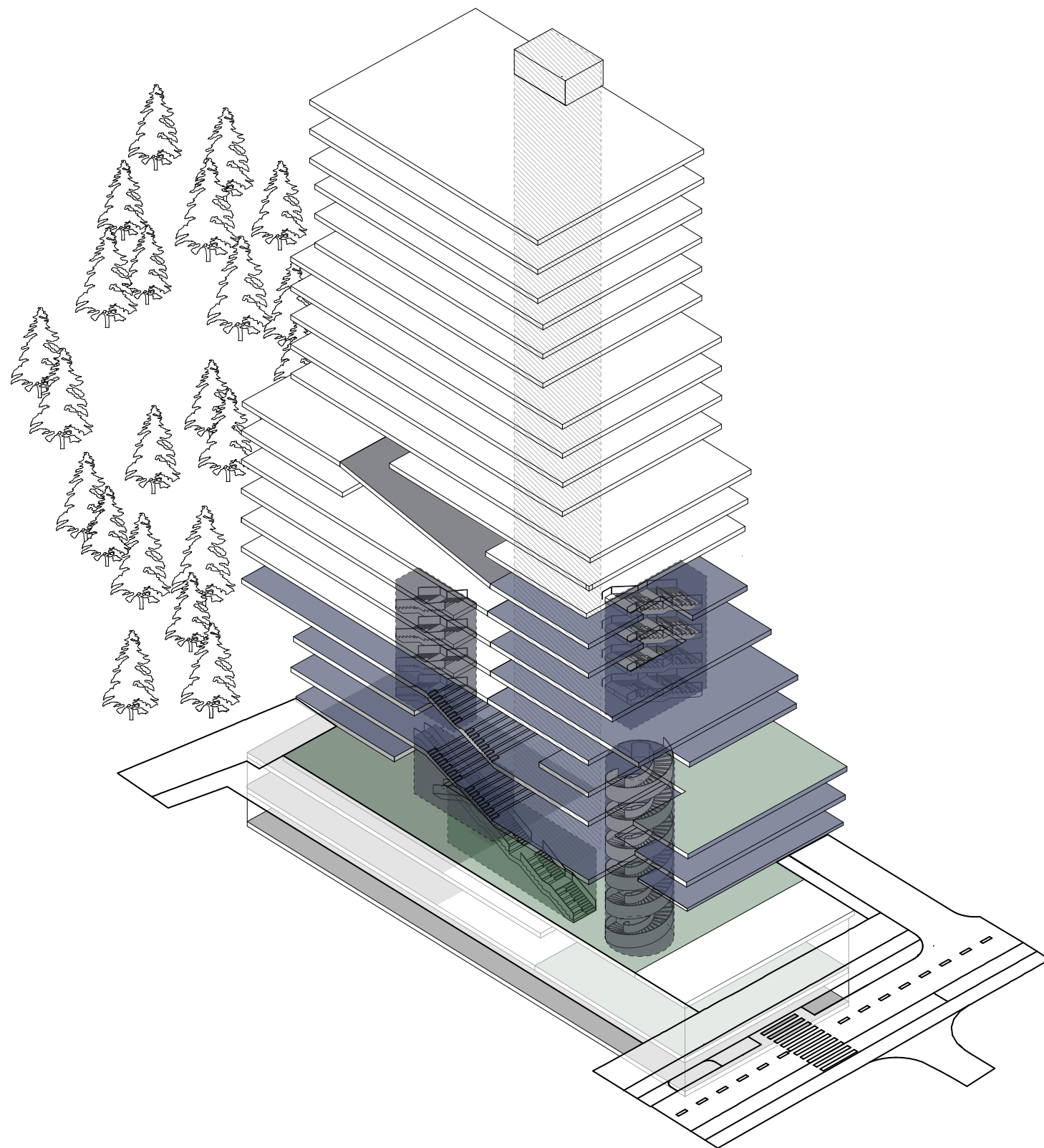




URBAN

Retail Spaces  
 Bars and Restaurants  
 Gym  
 Basketball Court  
 =2.001 sqm

## CLUSTER DISTRIBUTION



## EDUCATION

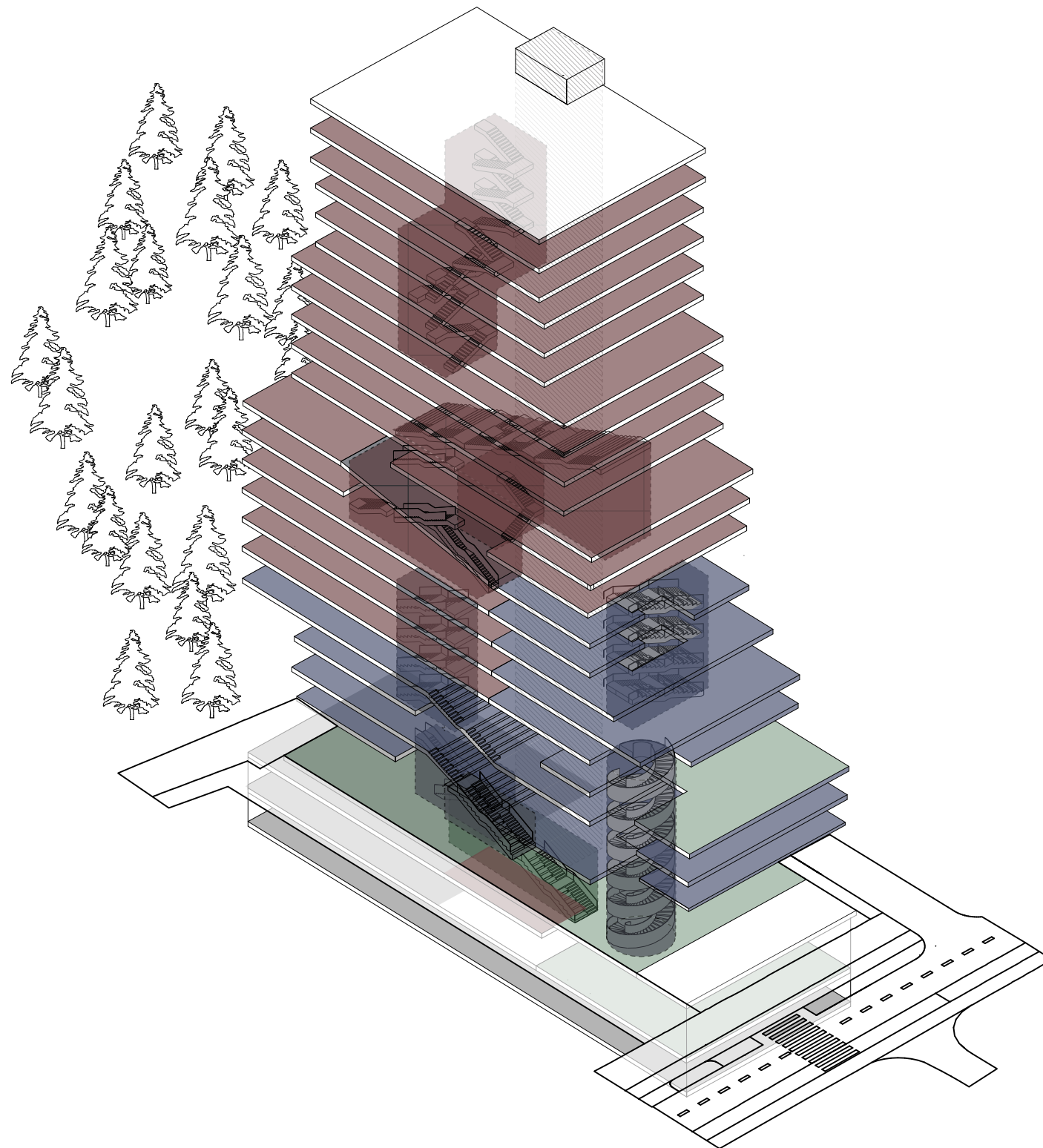
Indoor auditorium  
Daycare  
Exhibition space  
Library  
Media Centre  
Learning Spaces  
= 6.311 sqm

## URBAN

Retail Spaces  
Bars and Restaurants  
Gym  
Basketball Court  
=2.001 sqm

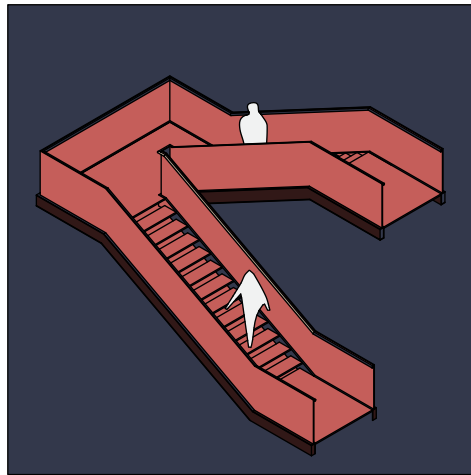
## CLUSTER DISTRIBUTION



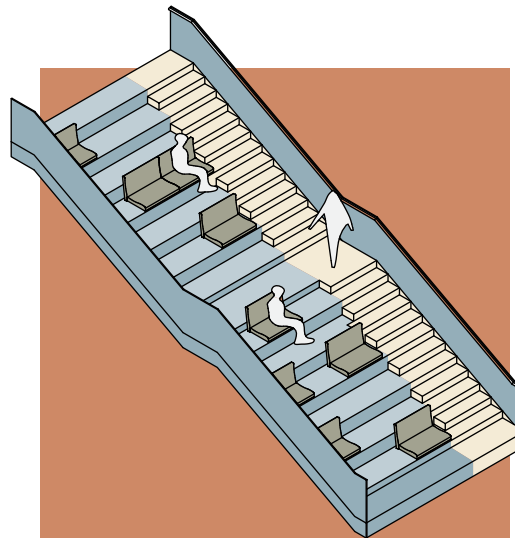


## CLUSTER DISTRIBUTION

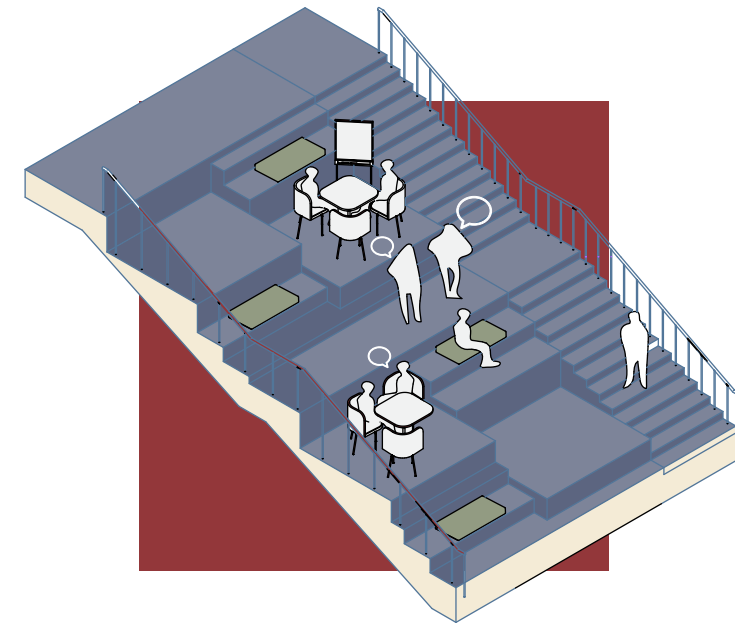
PROGRAM	
PRODUCTION	Offices
	Research Spaces
	Advanced Virtuality Centre
	Workshops
	Development Spaces
	=15.175 sqm
EDUCATION	Indoor auditorium
	Daycare
	Exhibition space
	Library
	Media Centre
	Learning Spaces
	= 6.311 sqm
URBAN	Retail Spaces
	Bars and Restaurants
	Gym
	Basketball Court
	=2.001 sqm



type A



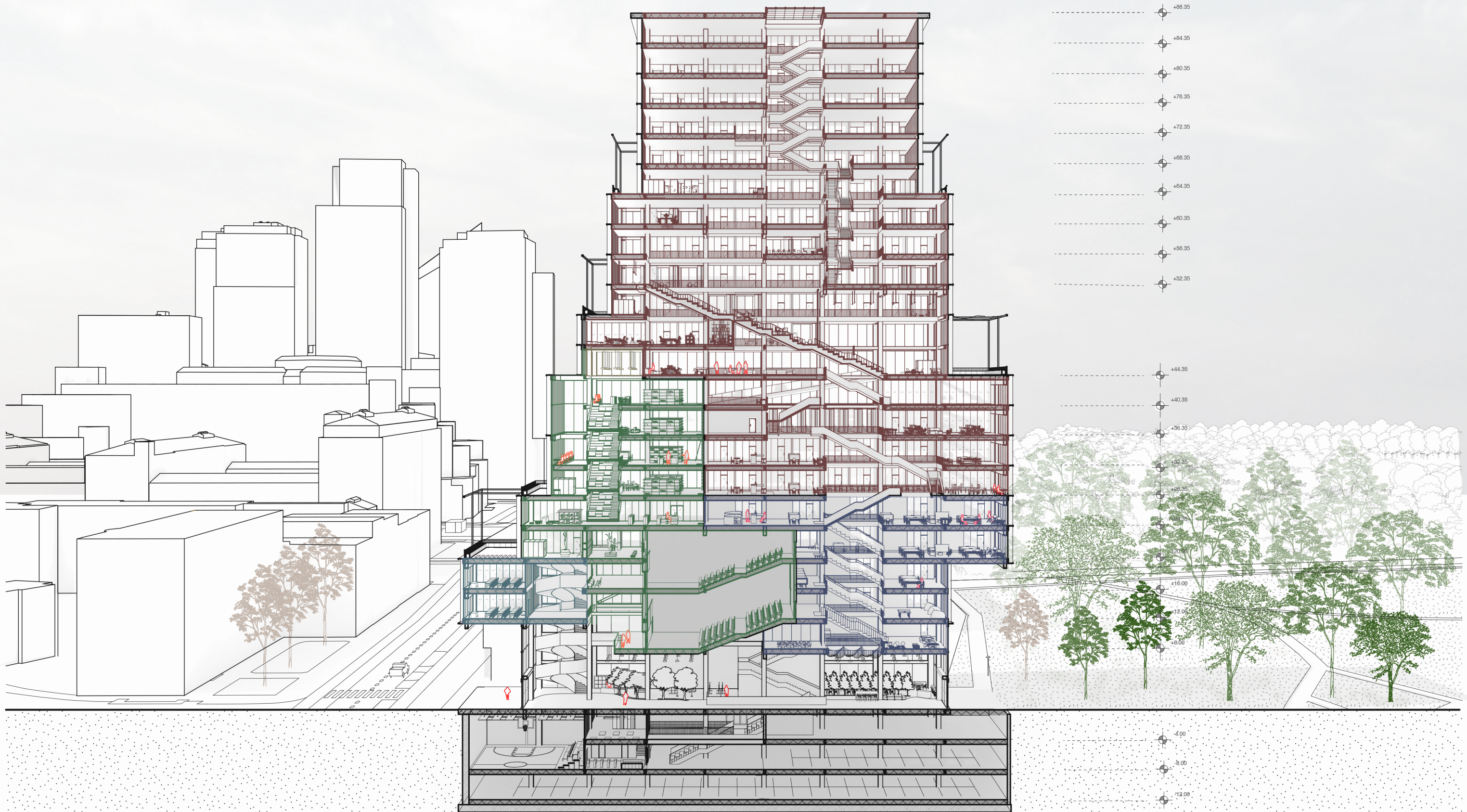
type B



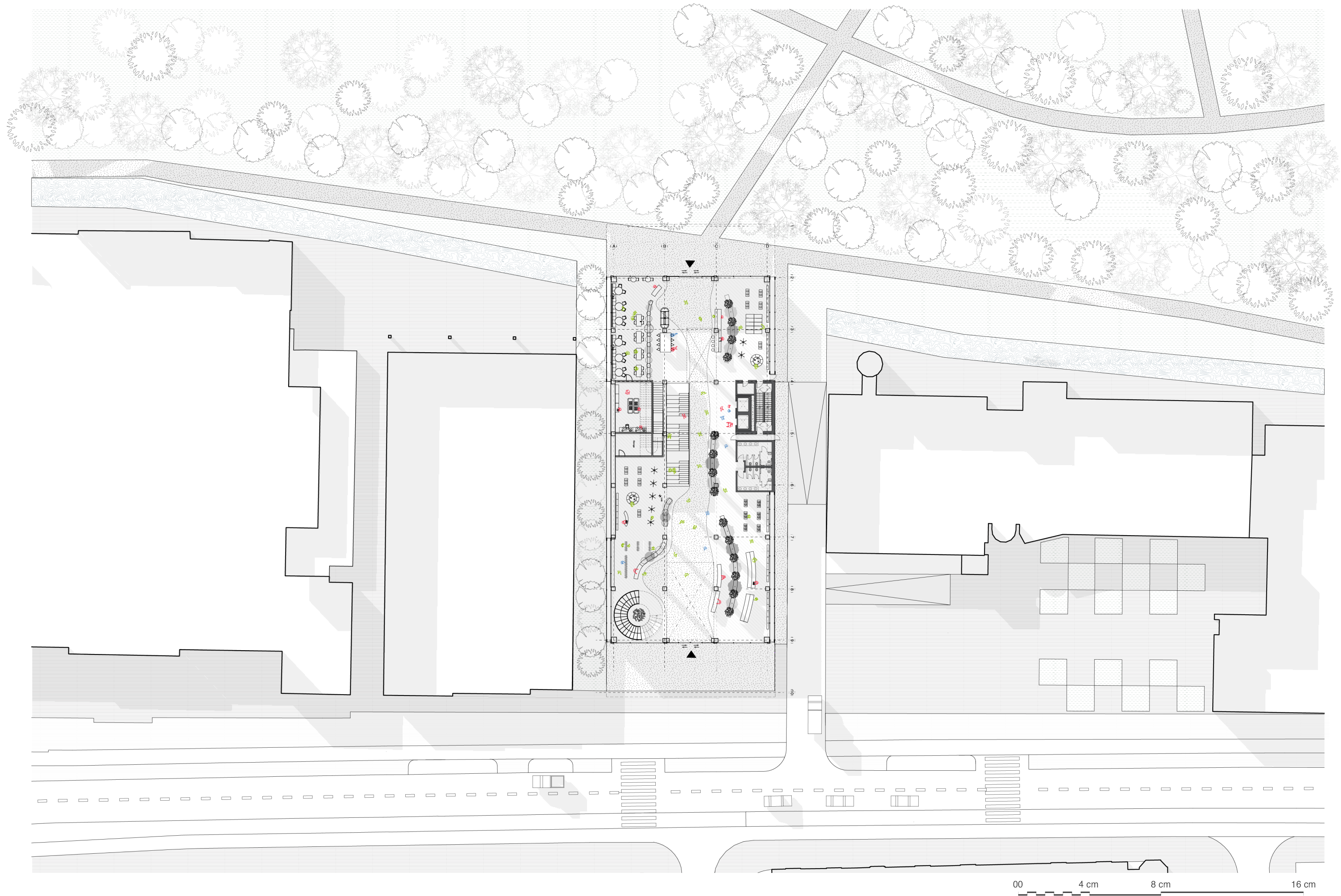
type C

## CONNECTORS

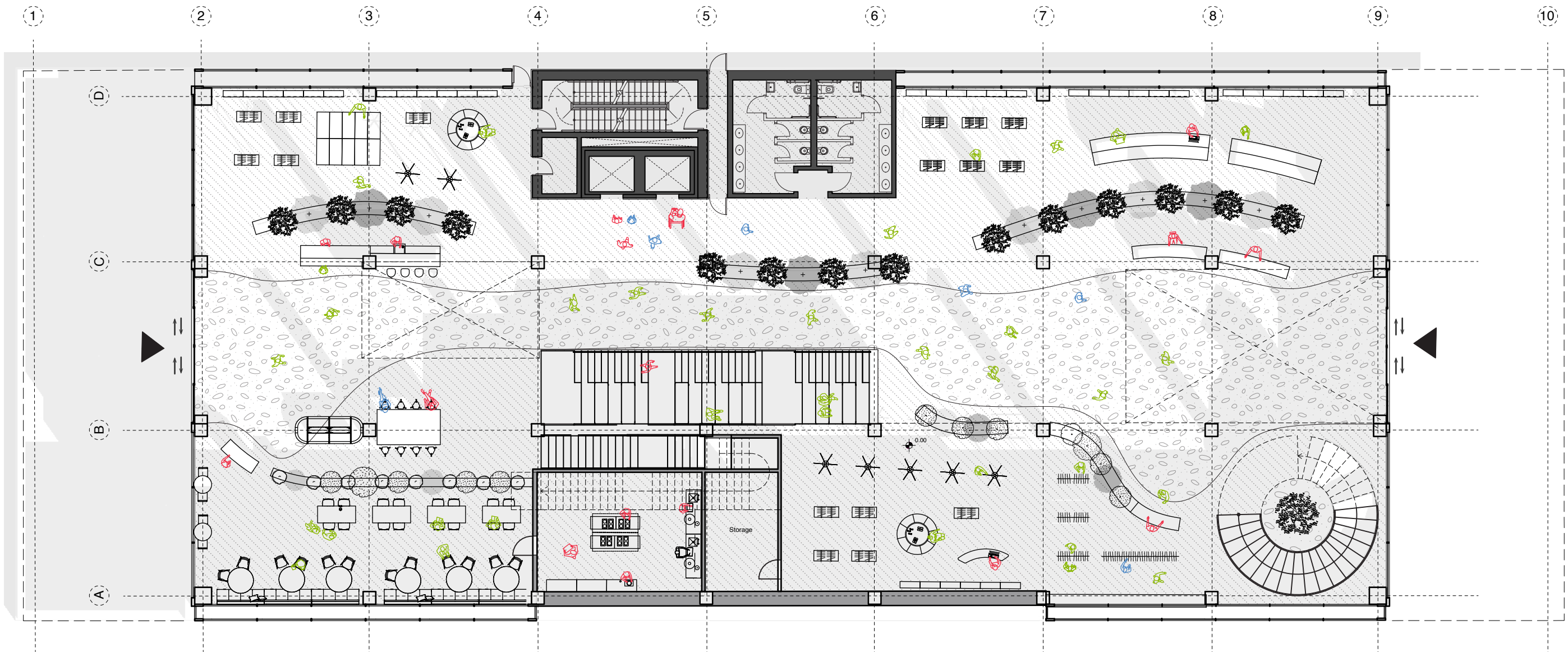






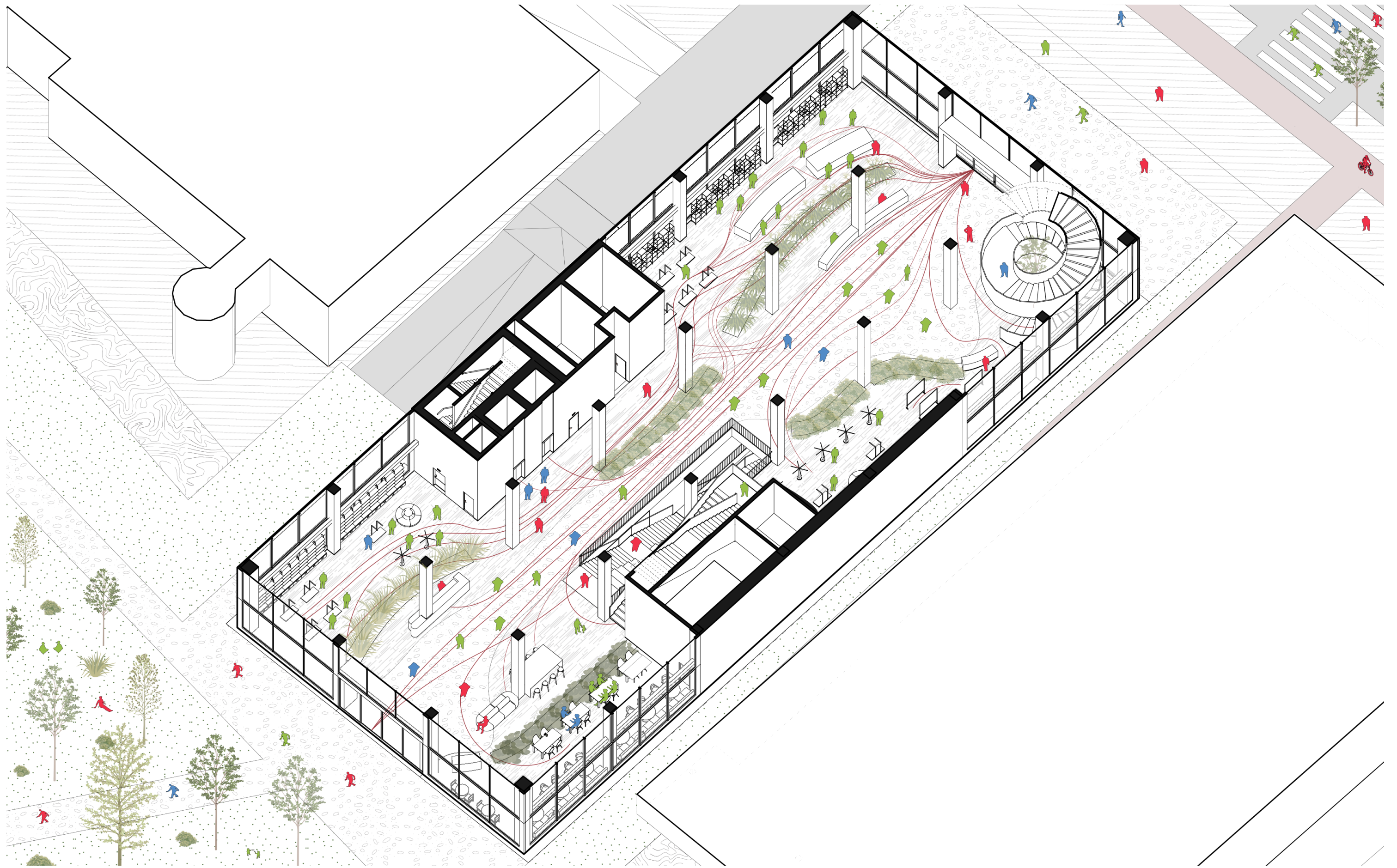






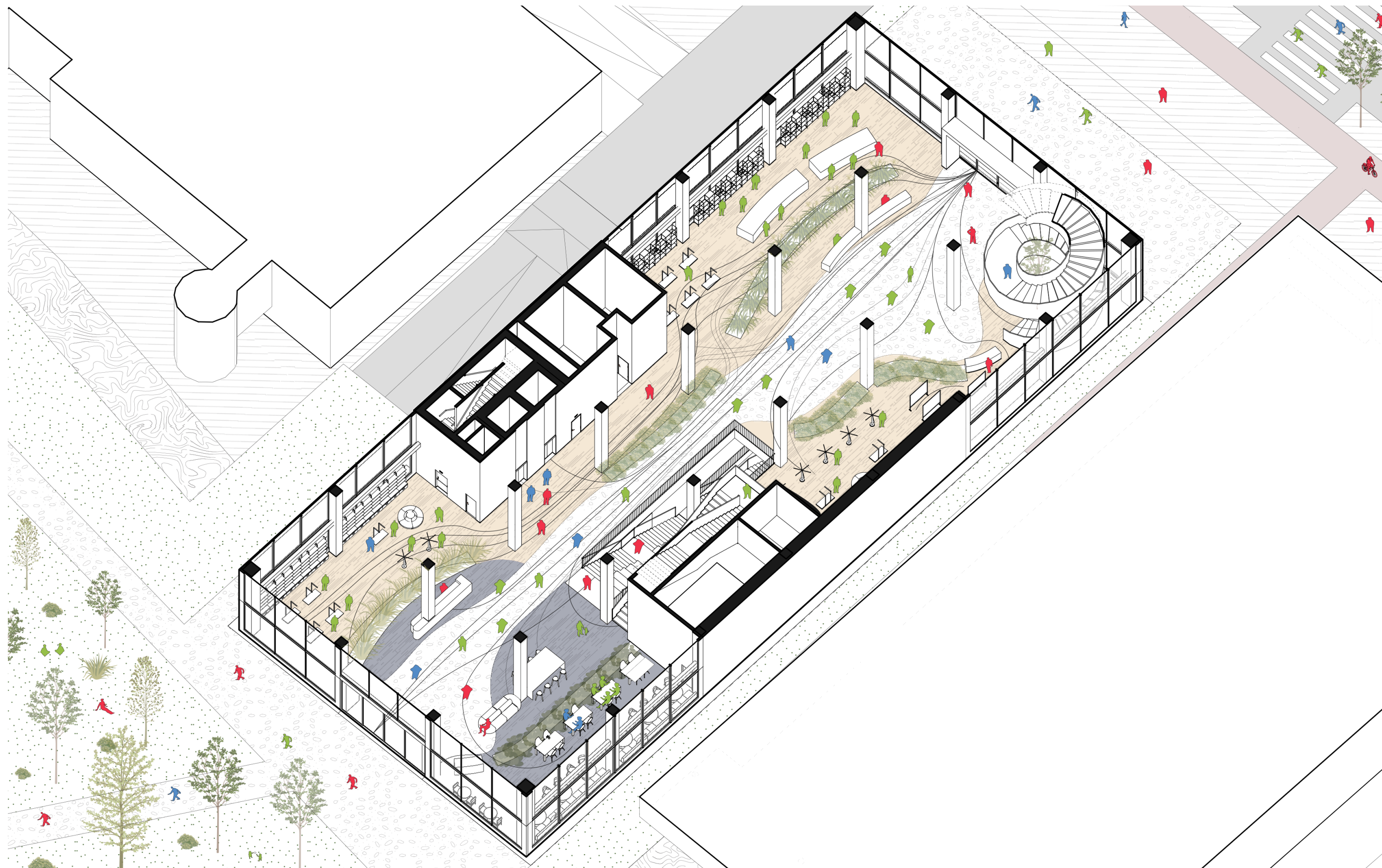
GROUND FLOOR PLAN



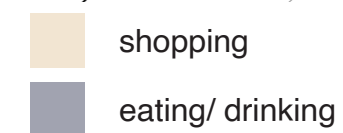


incentive: flow of desires





ambiguity: liminality







sensory experiences: emergence



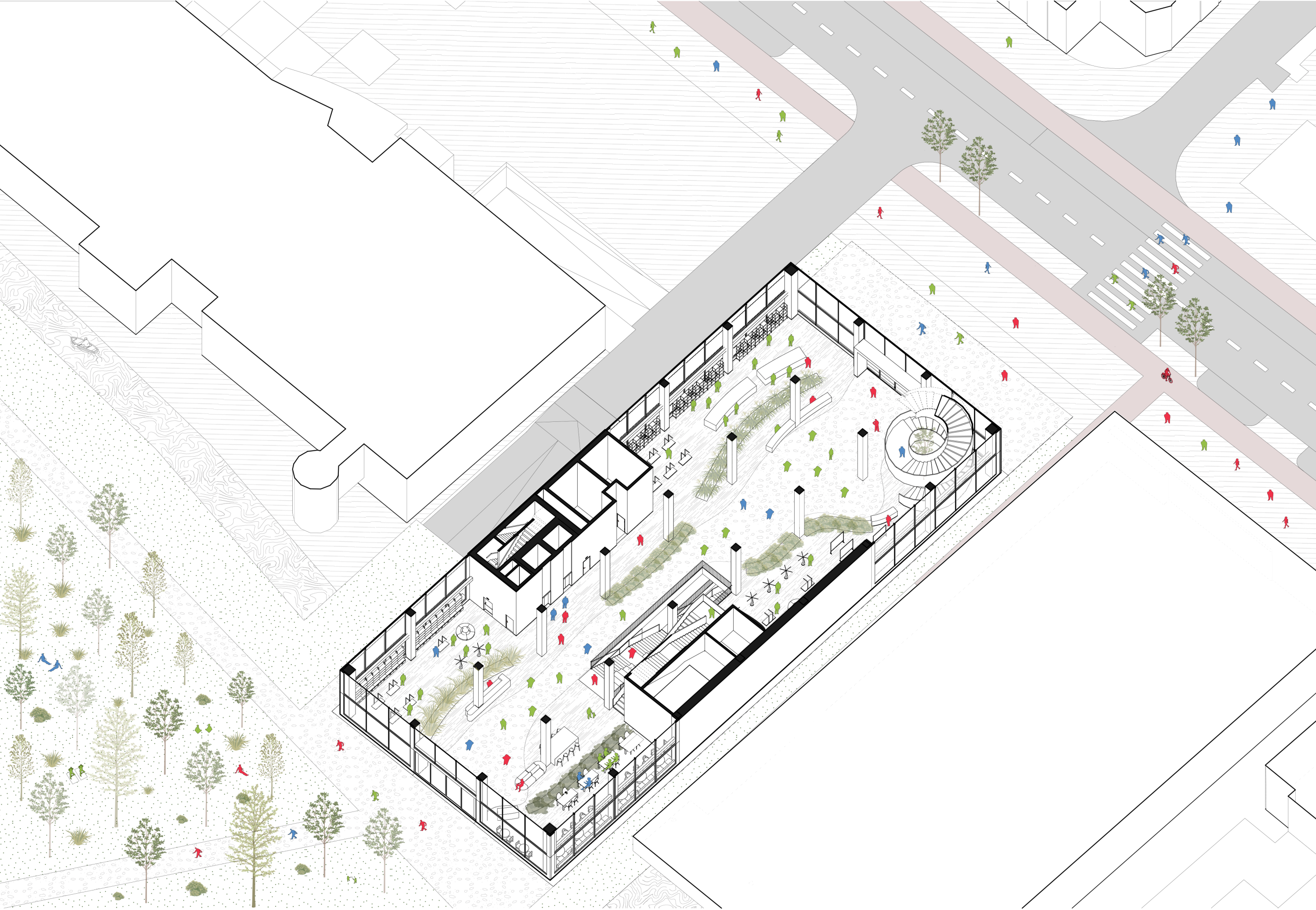


exploration: the new flows

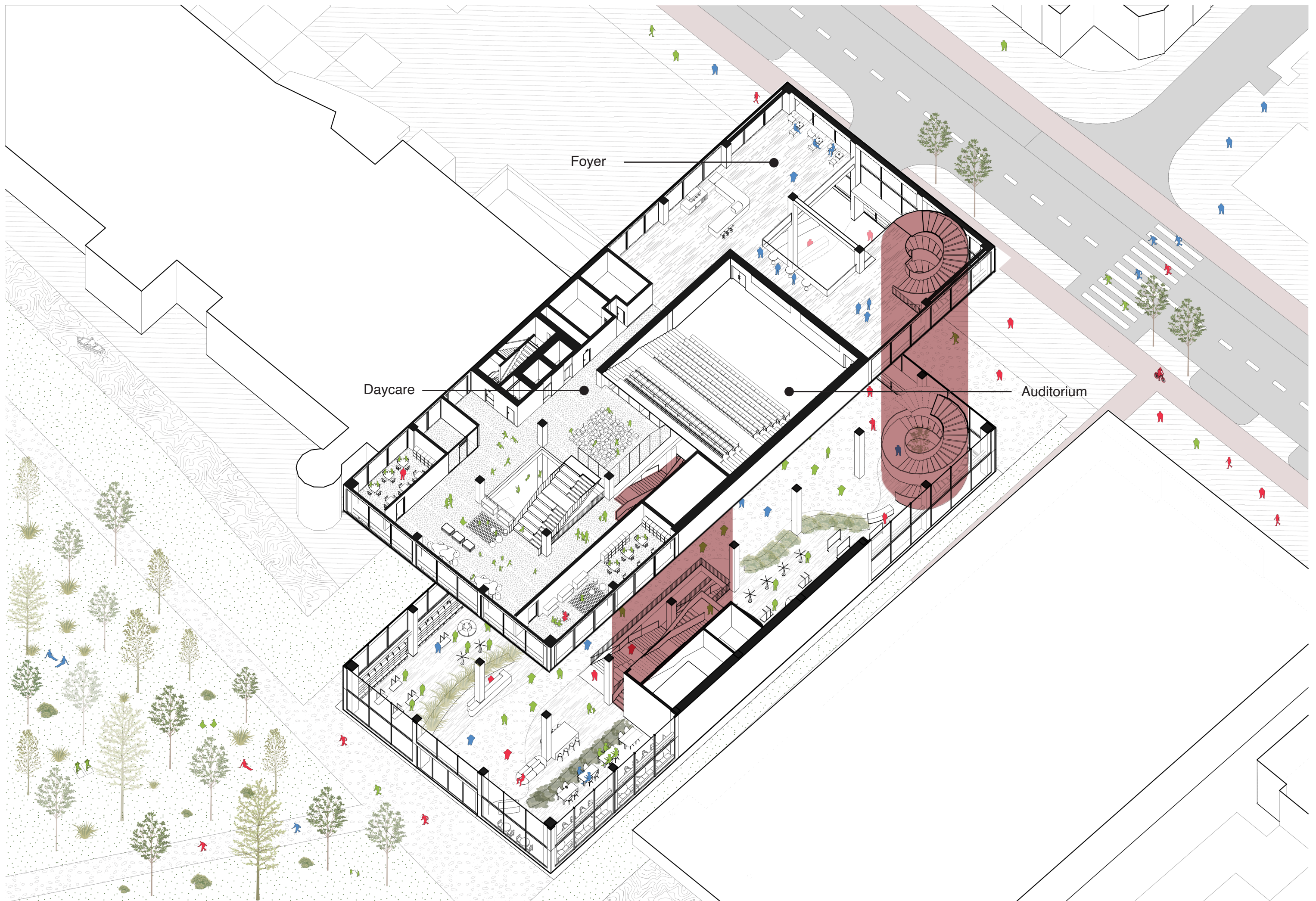




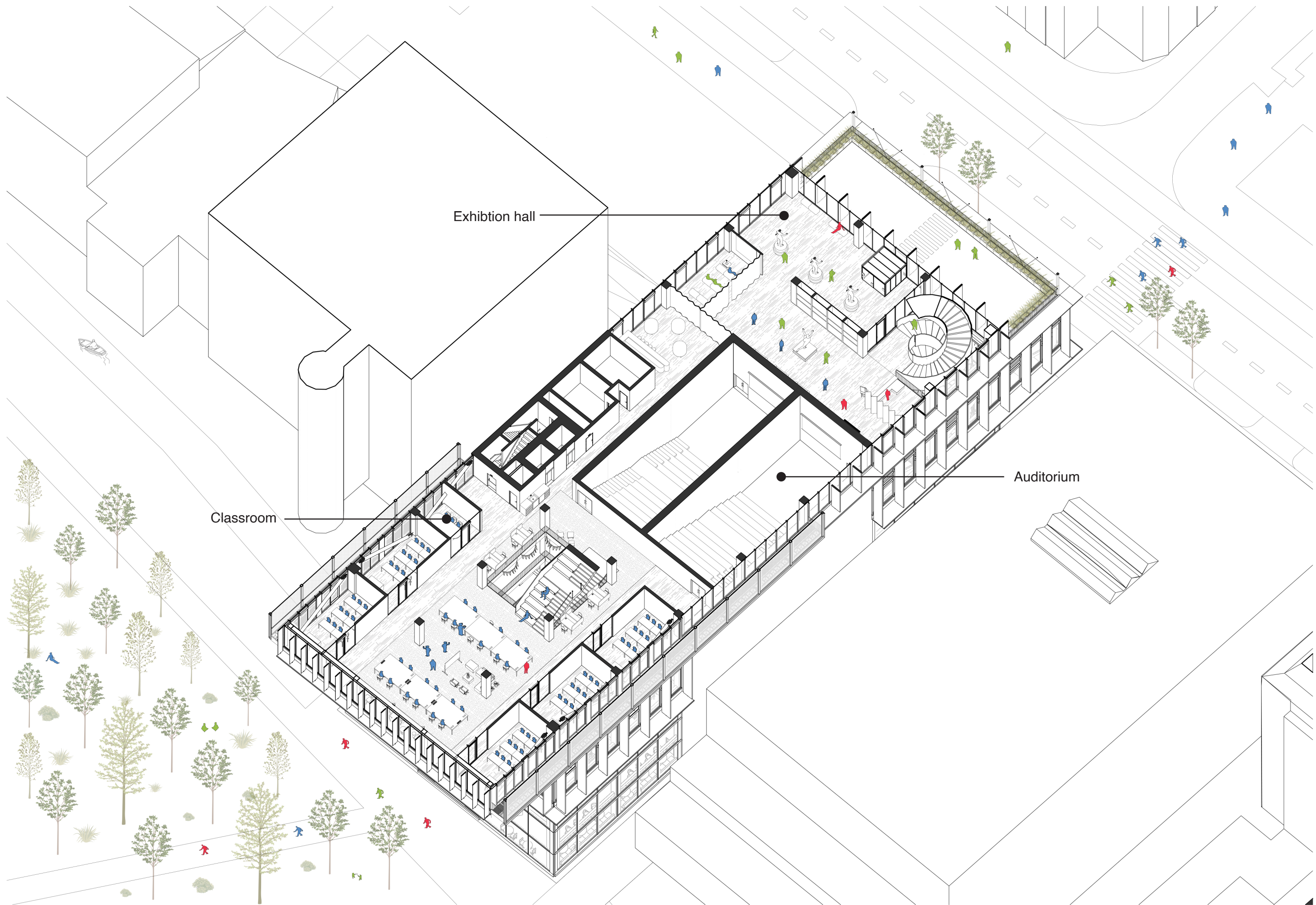










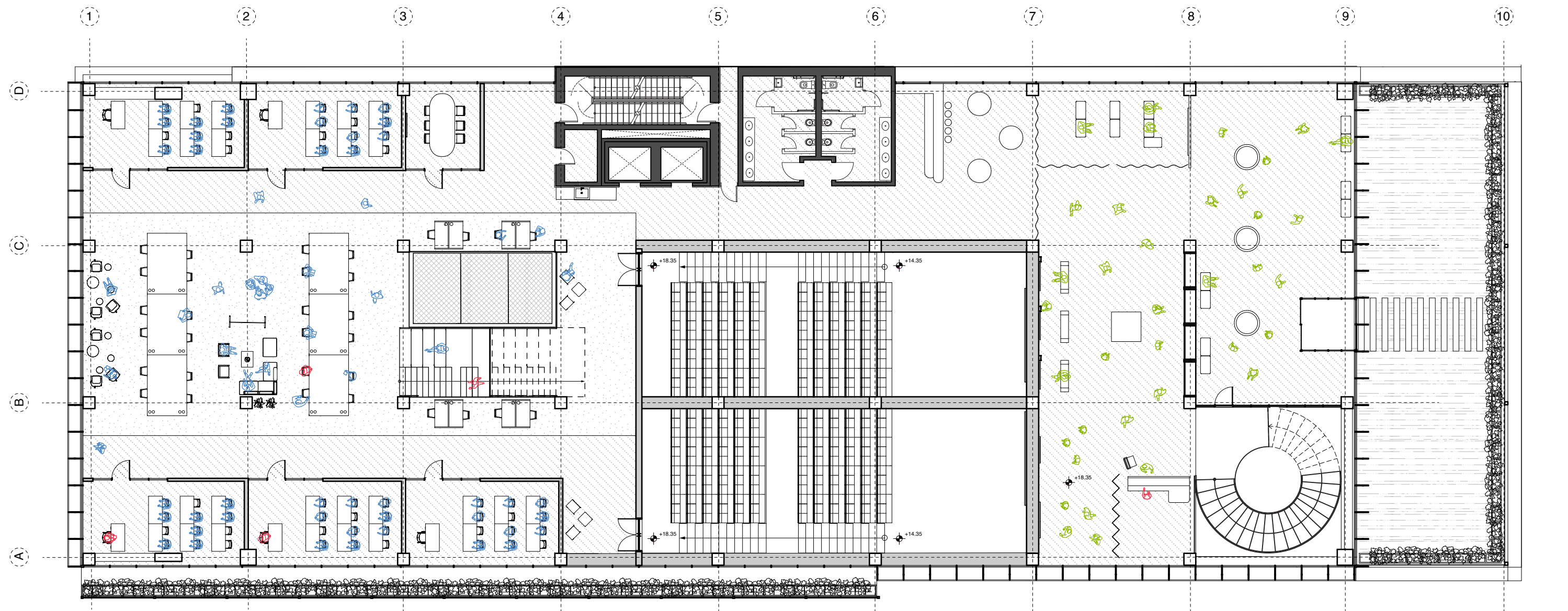


Exhibition hall

Classroom

Auditorium





+19.40 floor plan

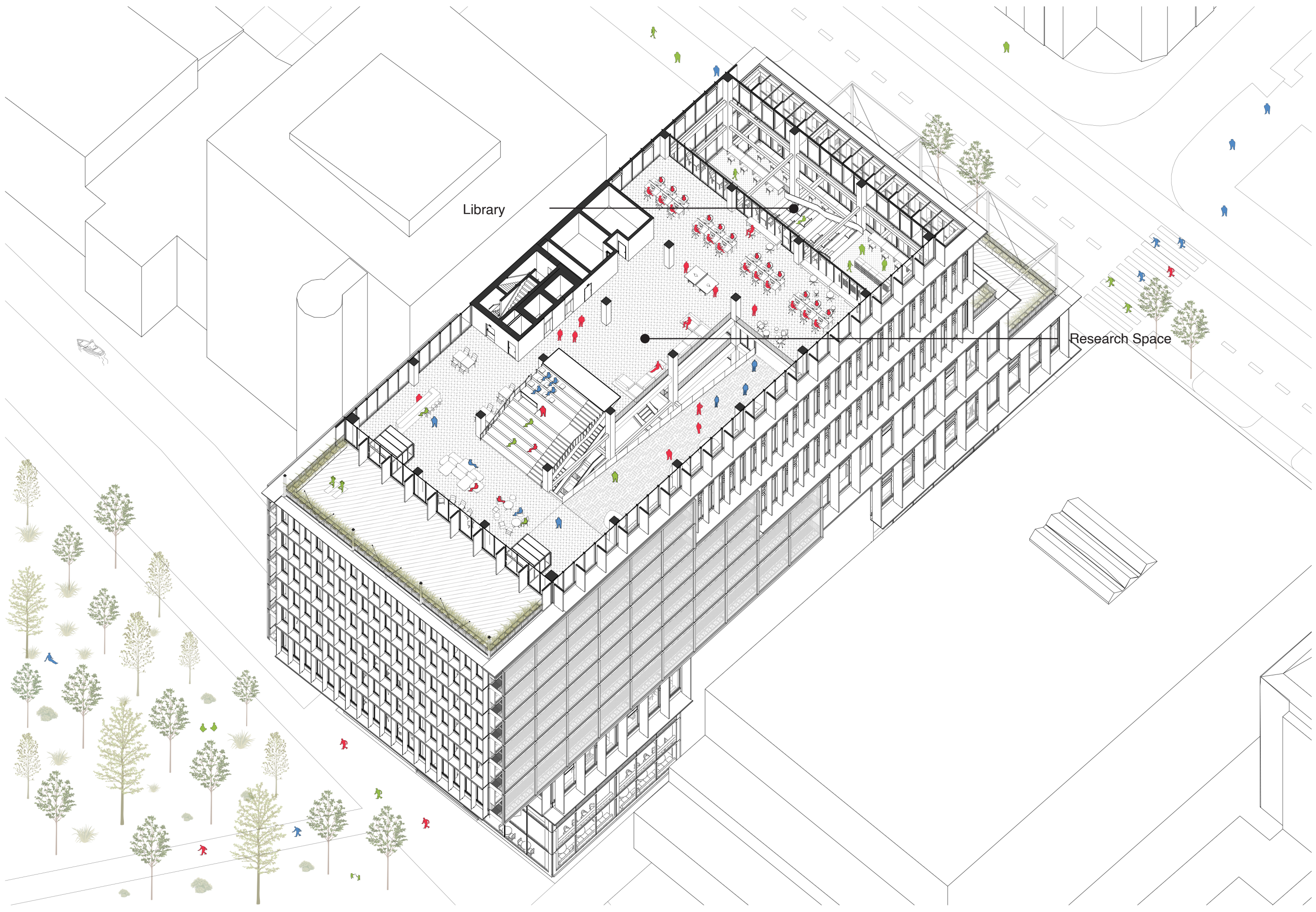








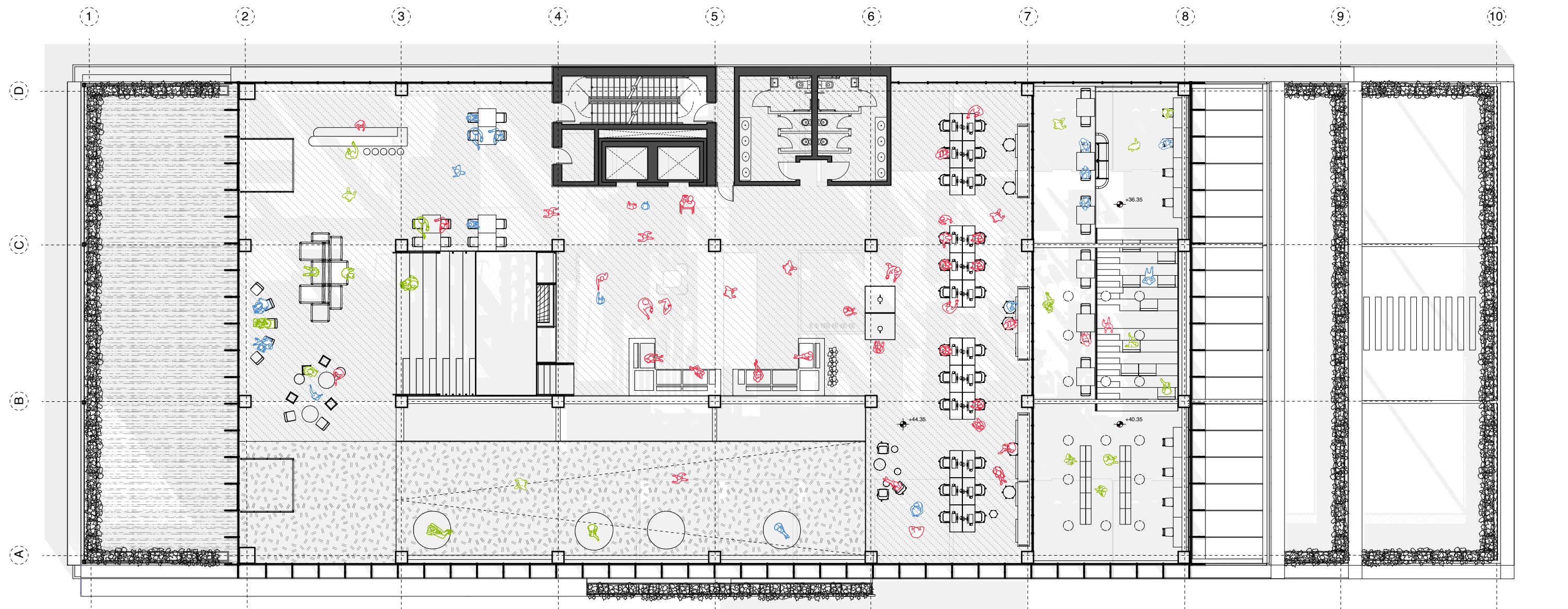




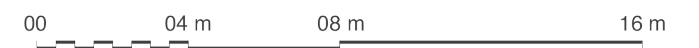
Library

Research Space





+44.35 floor plan



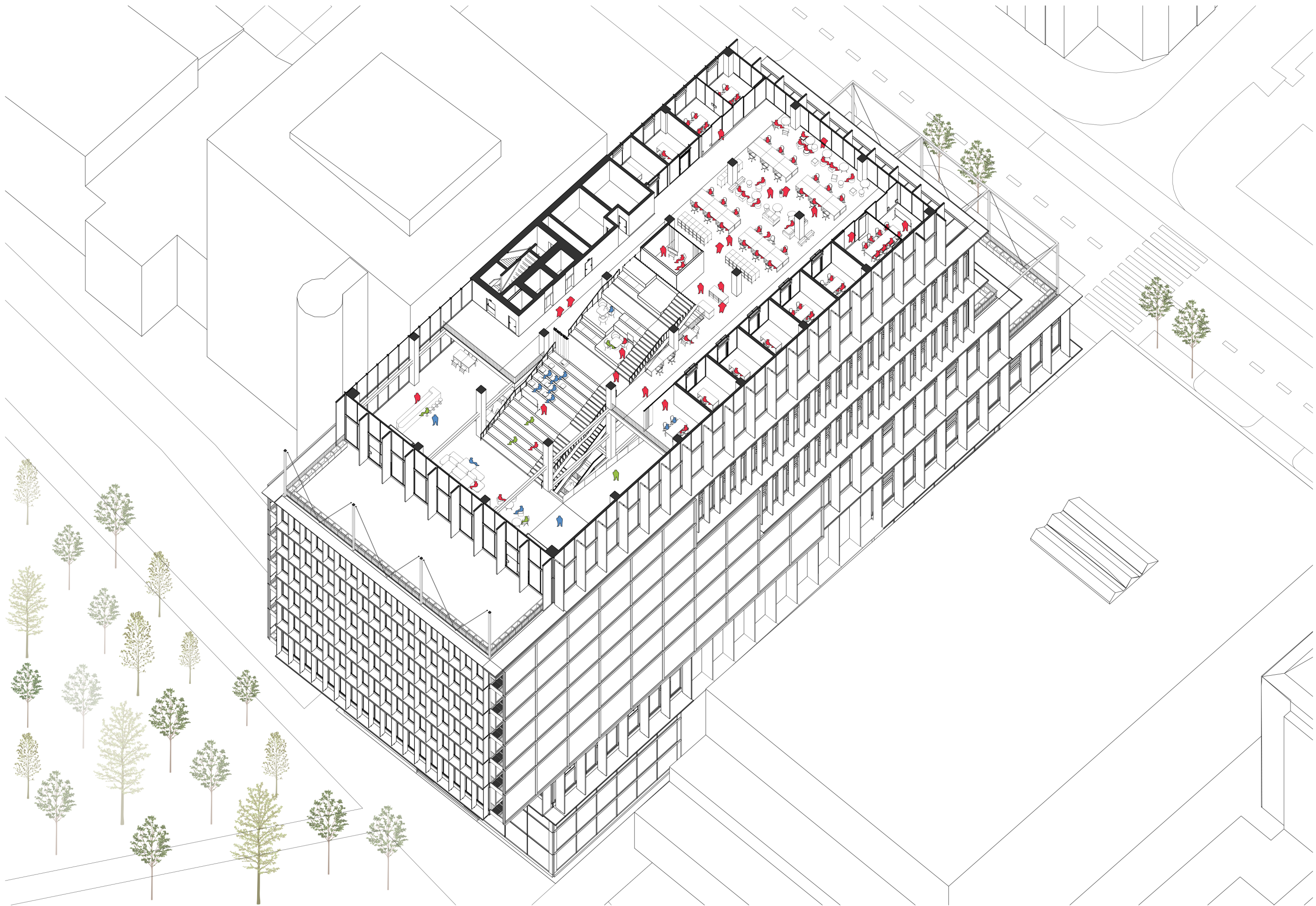




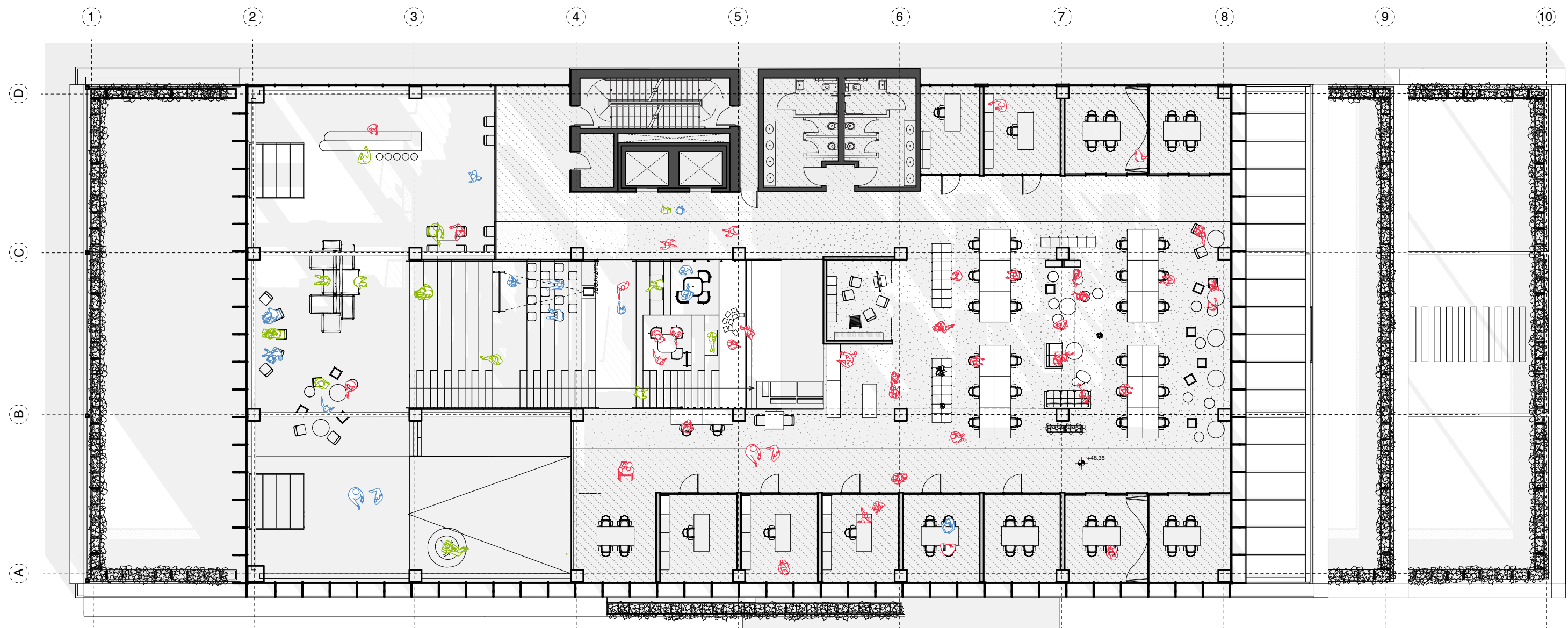












+48.35 Floor Plan



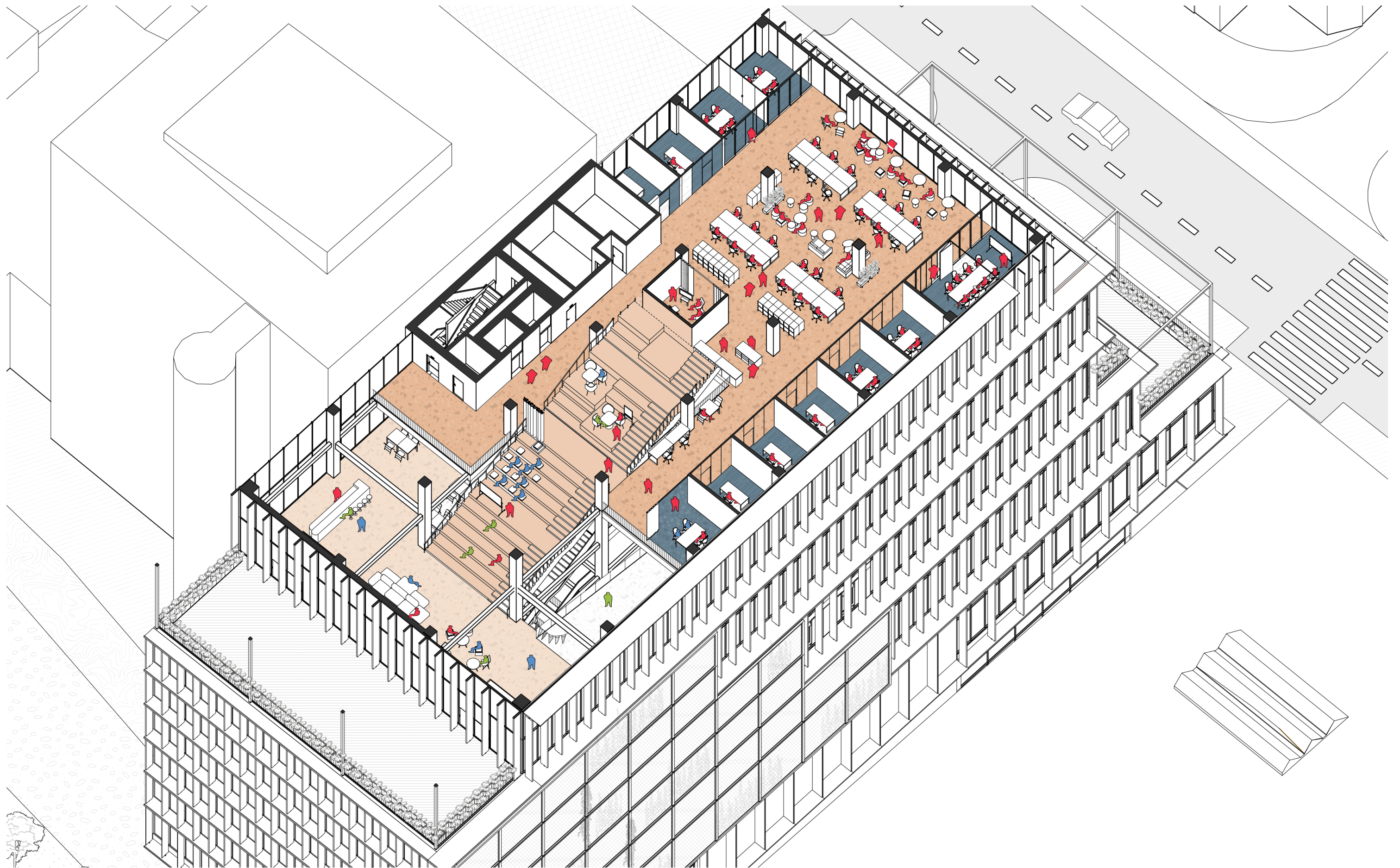










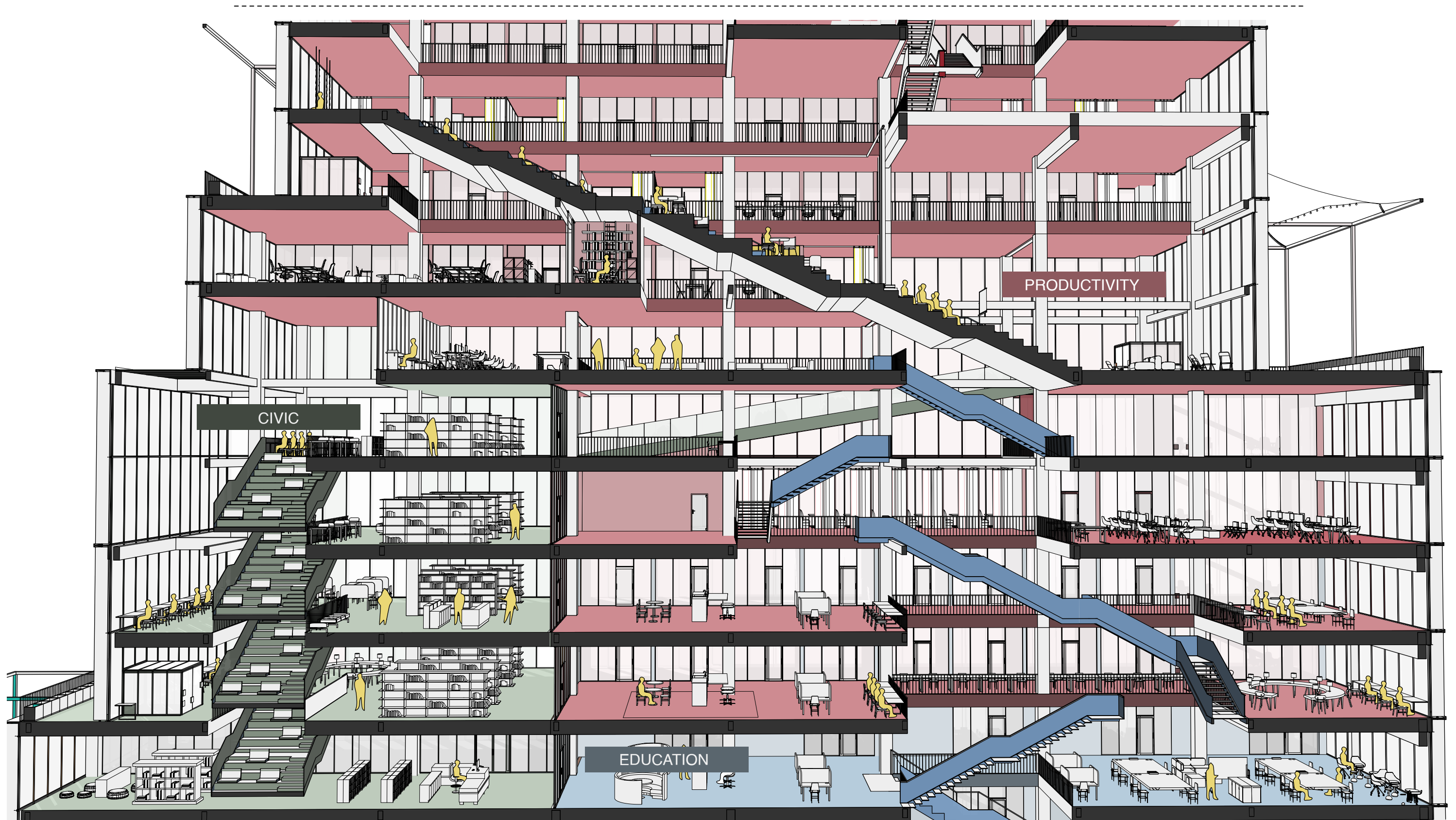


- spontaneous learning
- predictable learning





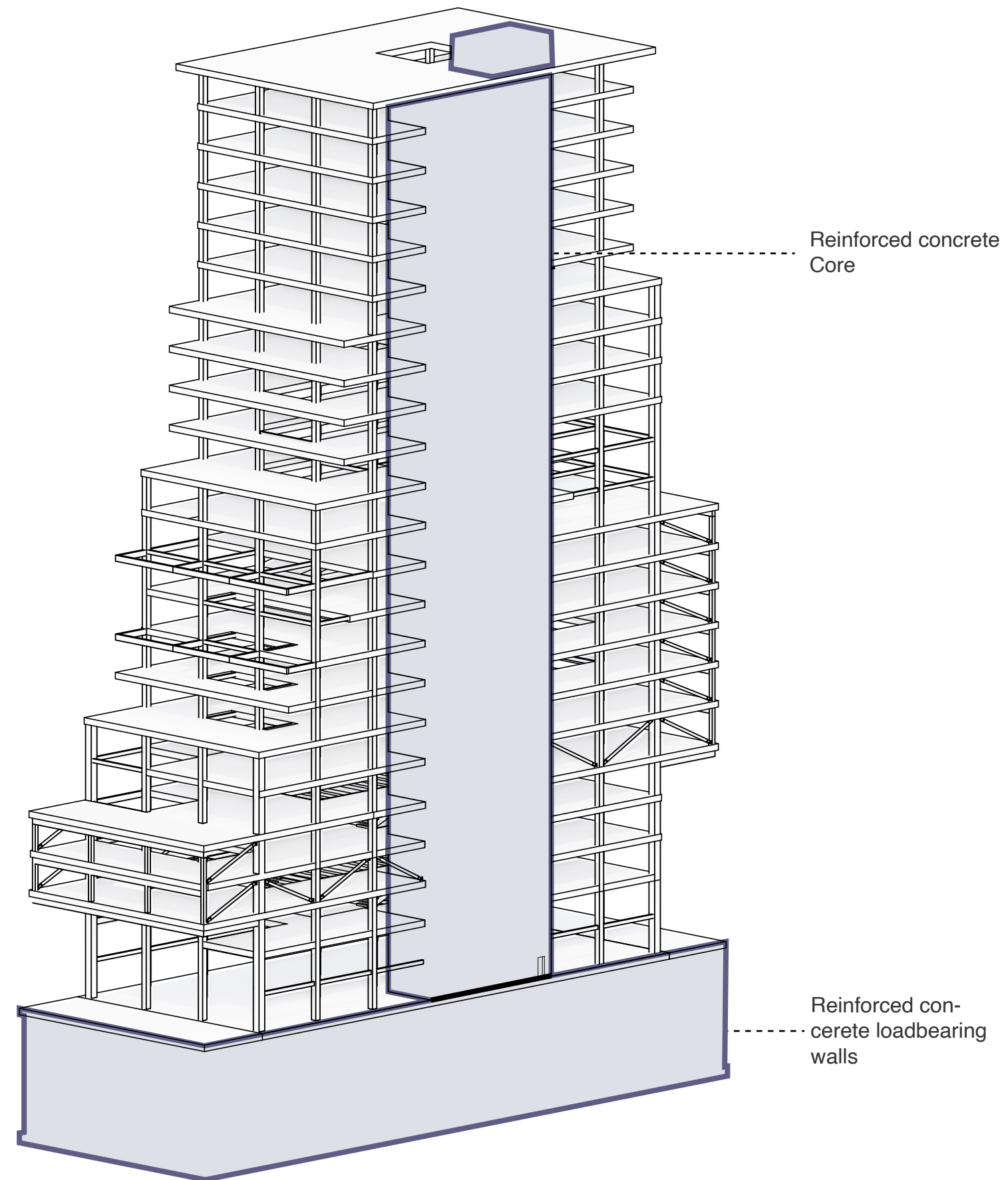






# FEASIBILITY





## CONCRETE CORE



31 mm glulam &  
laminated veneer  
lumber floor panel

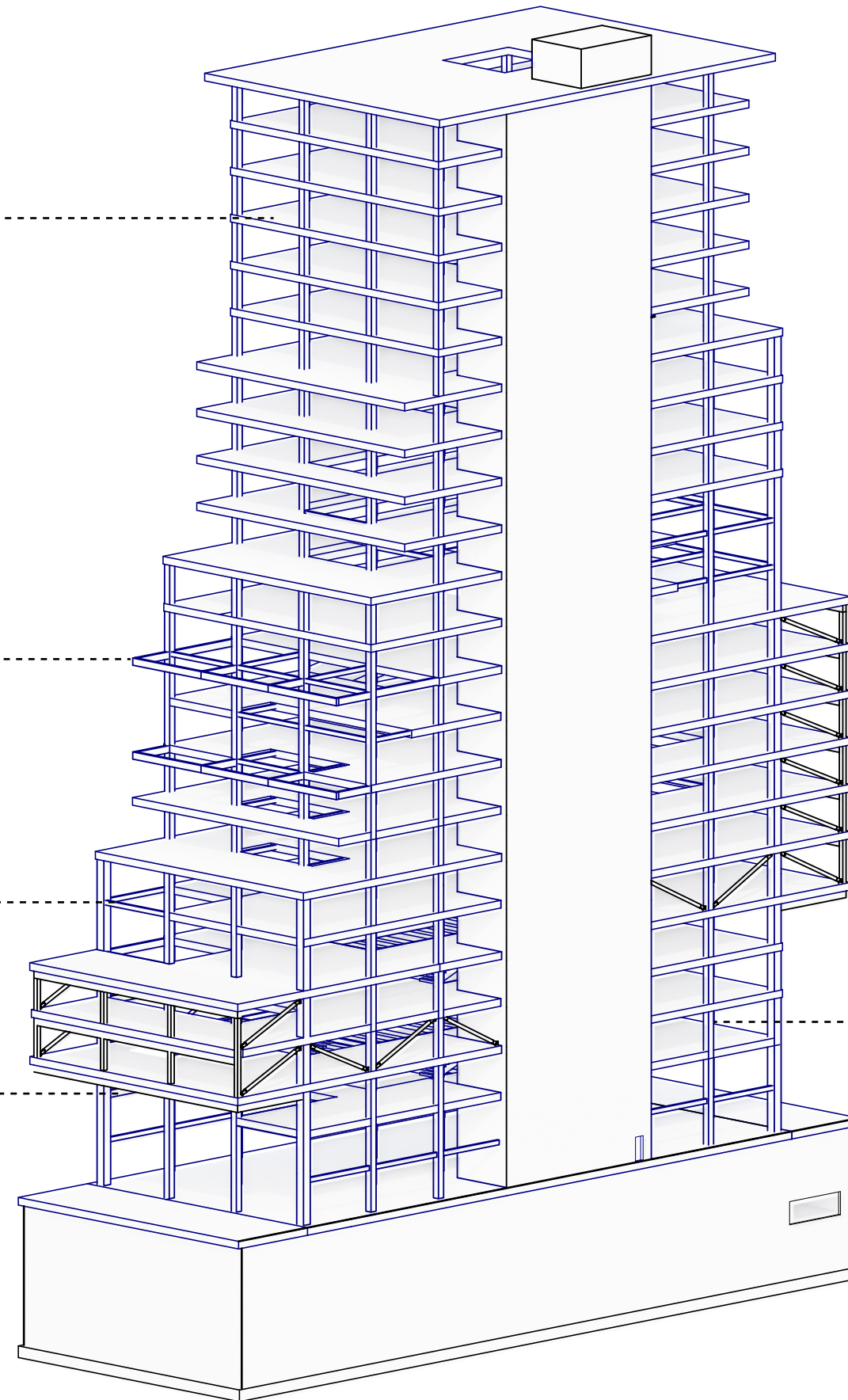
610x270 mm glulam  
cantilever beam

410x220 mm glulam-  
beam

610x270 mm glulam  
edge beam

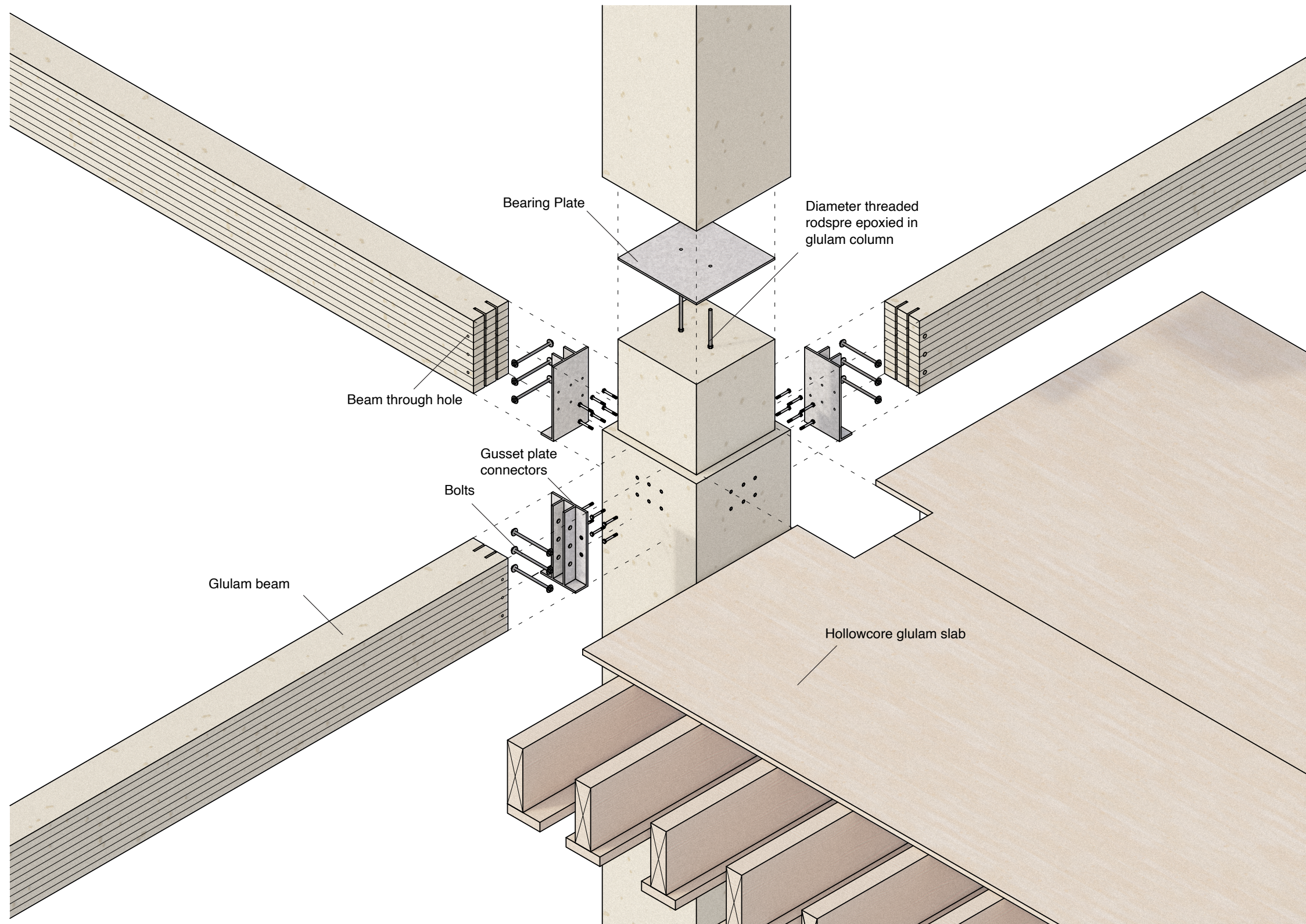
600x600 mm glulam  
intermediate columns

800x800 mm glulam  
corner columns



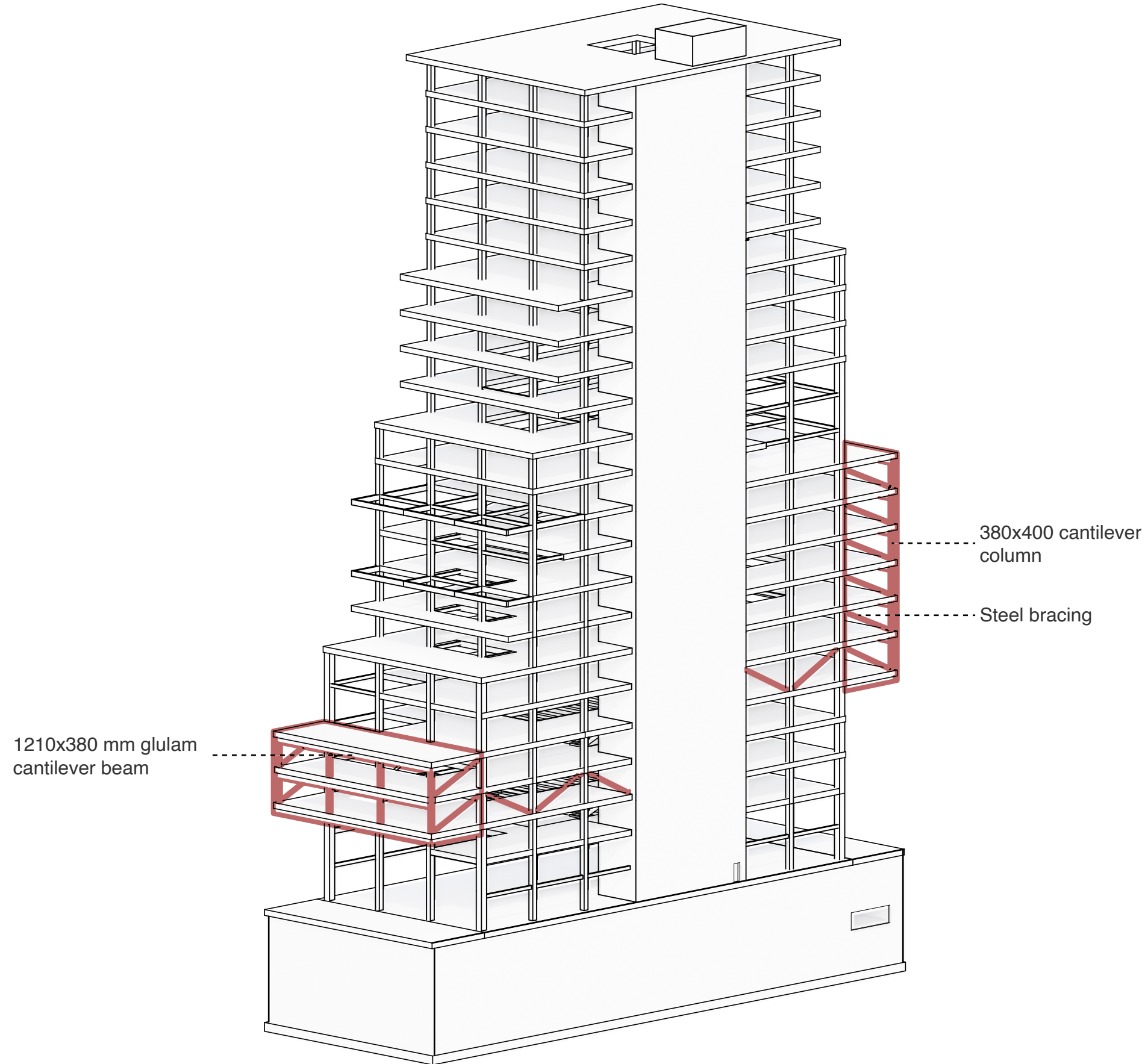
## TIMBER STRUCTURAL SYSTEM





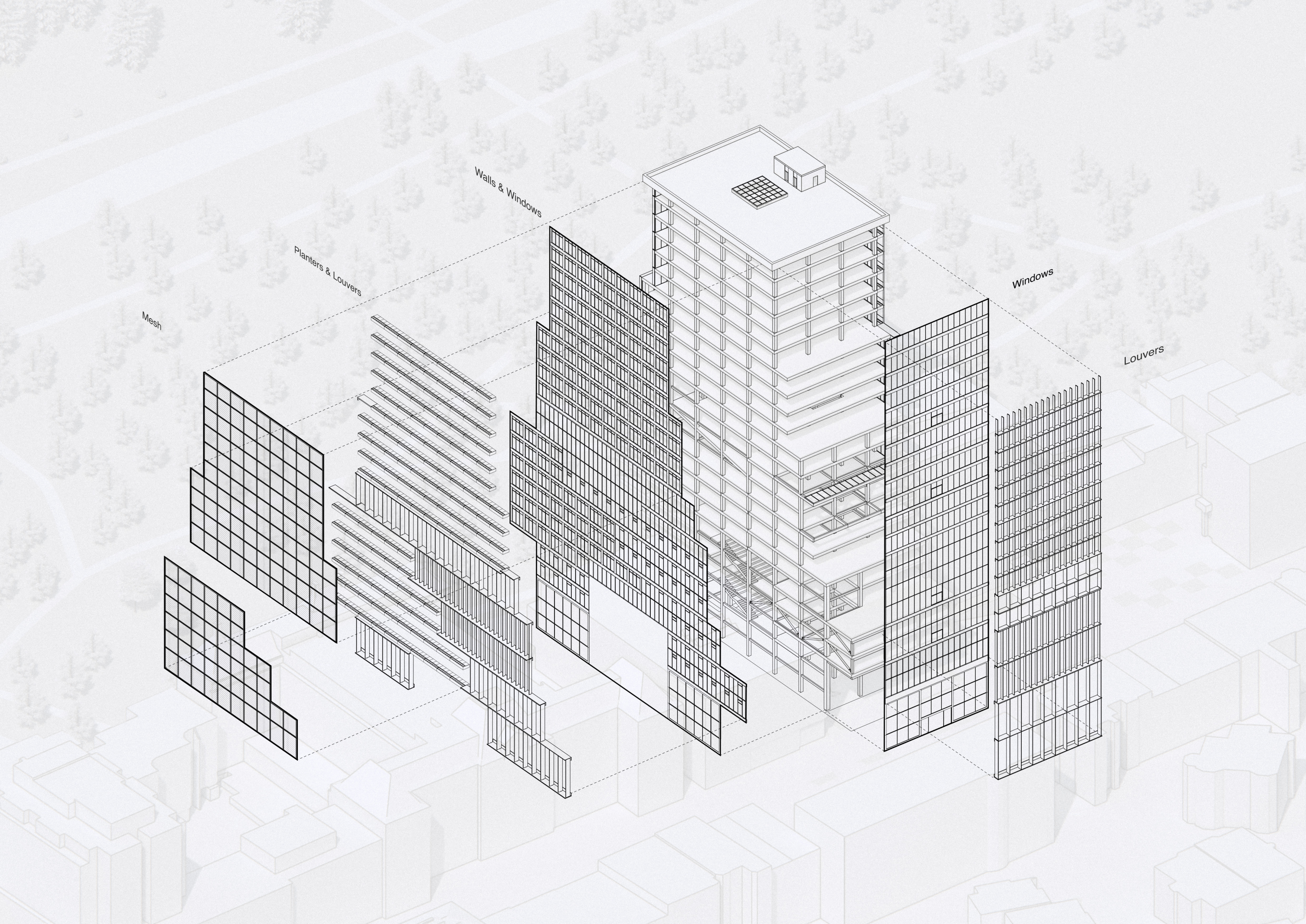
## TIMBER CONNECTIONS





## STEEL DIAGONALS





Walls & Windows

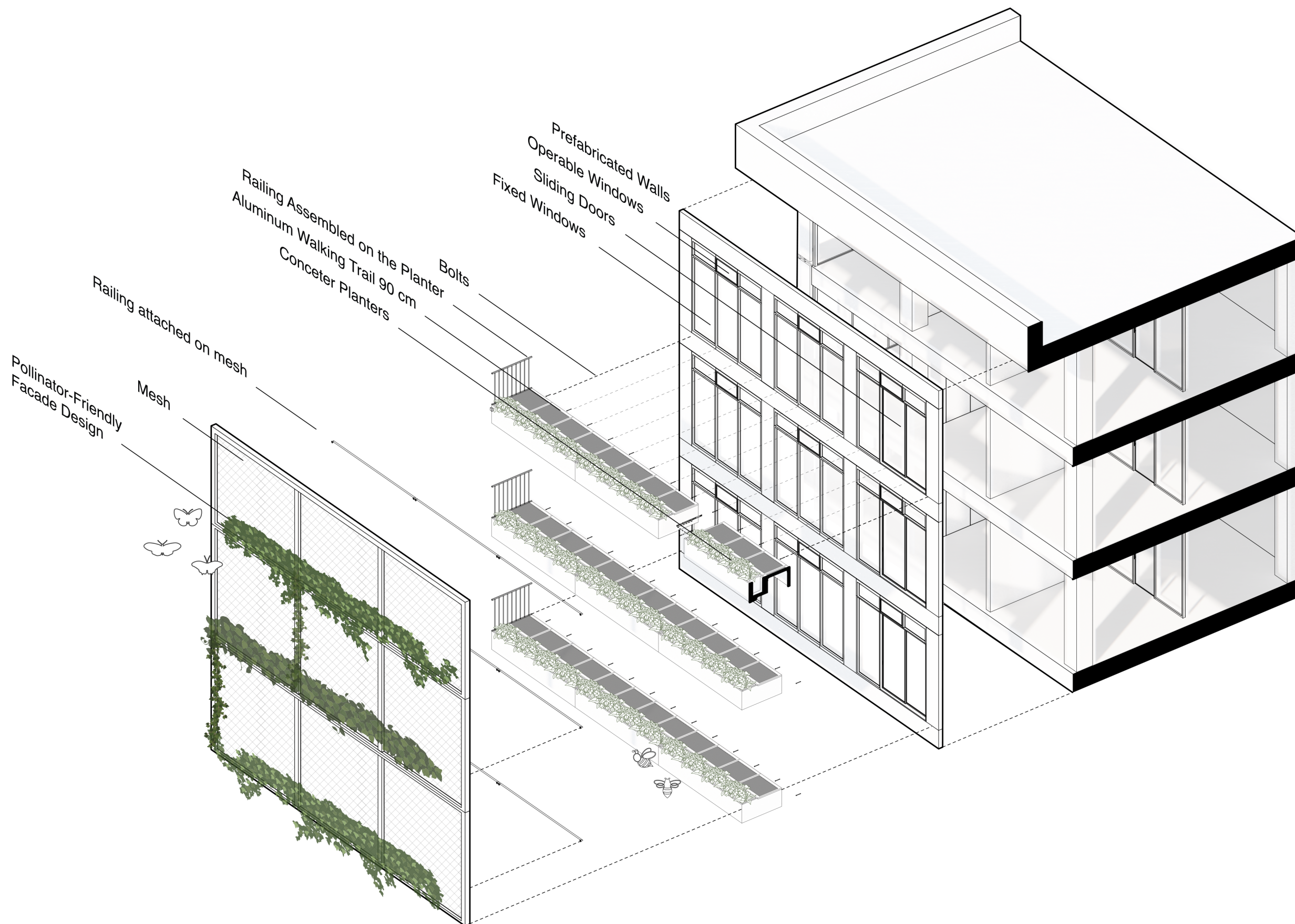
Planters & Louvers

Mesh

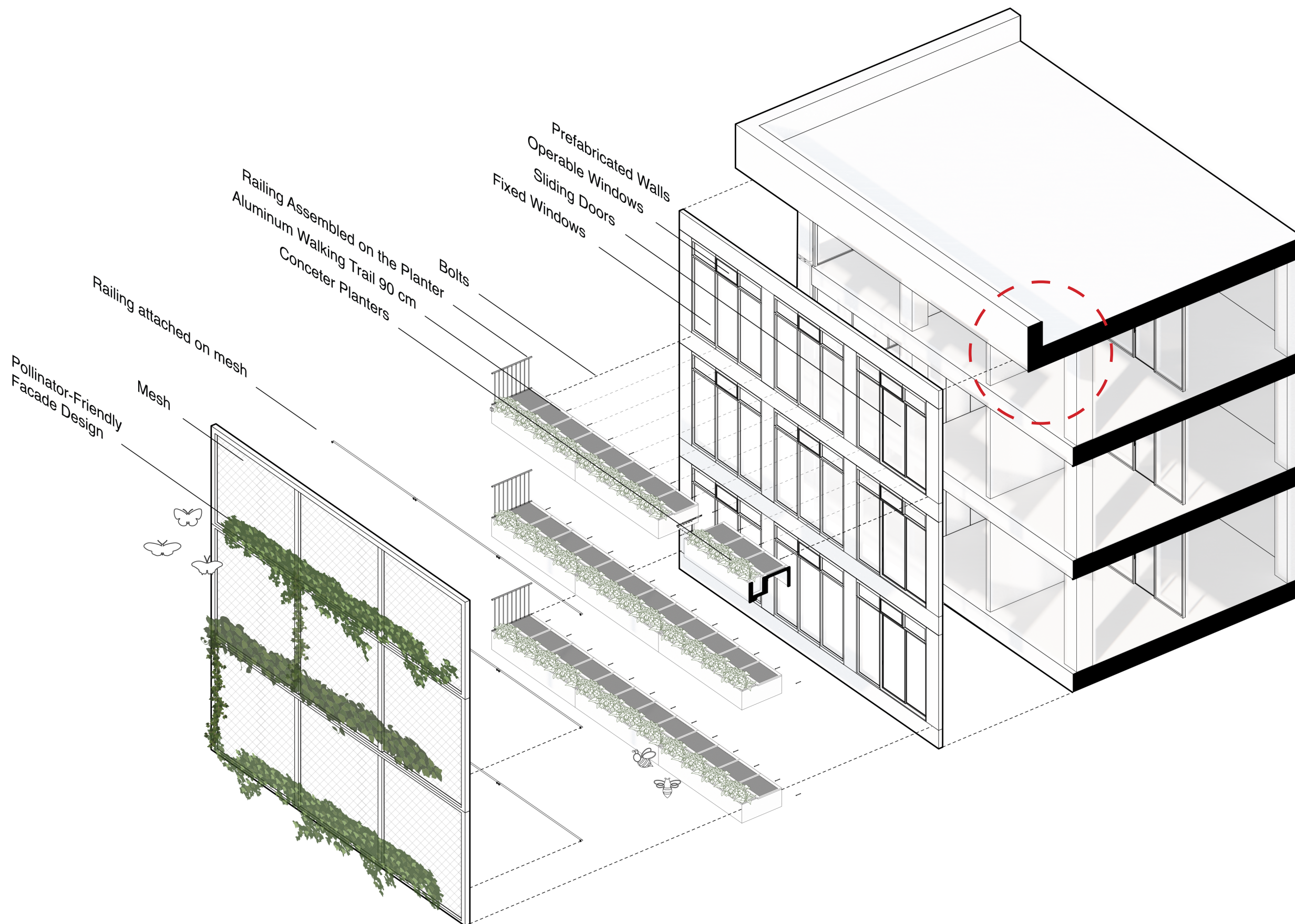
Windows

Louvers

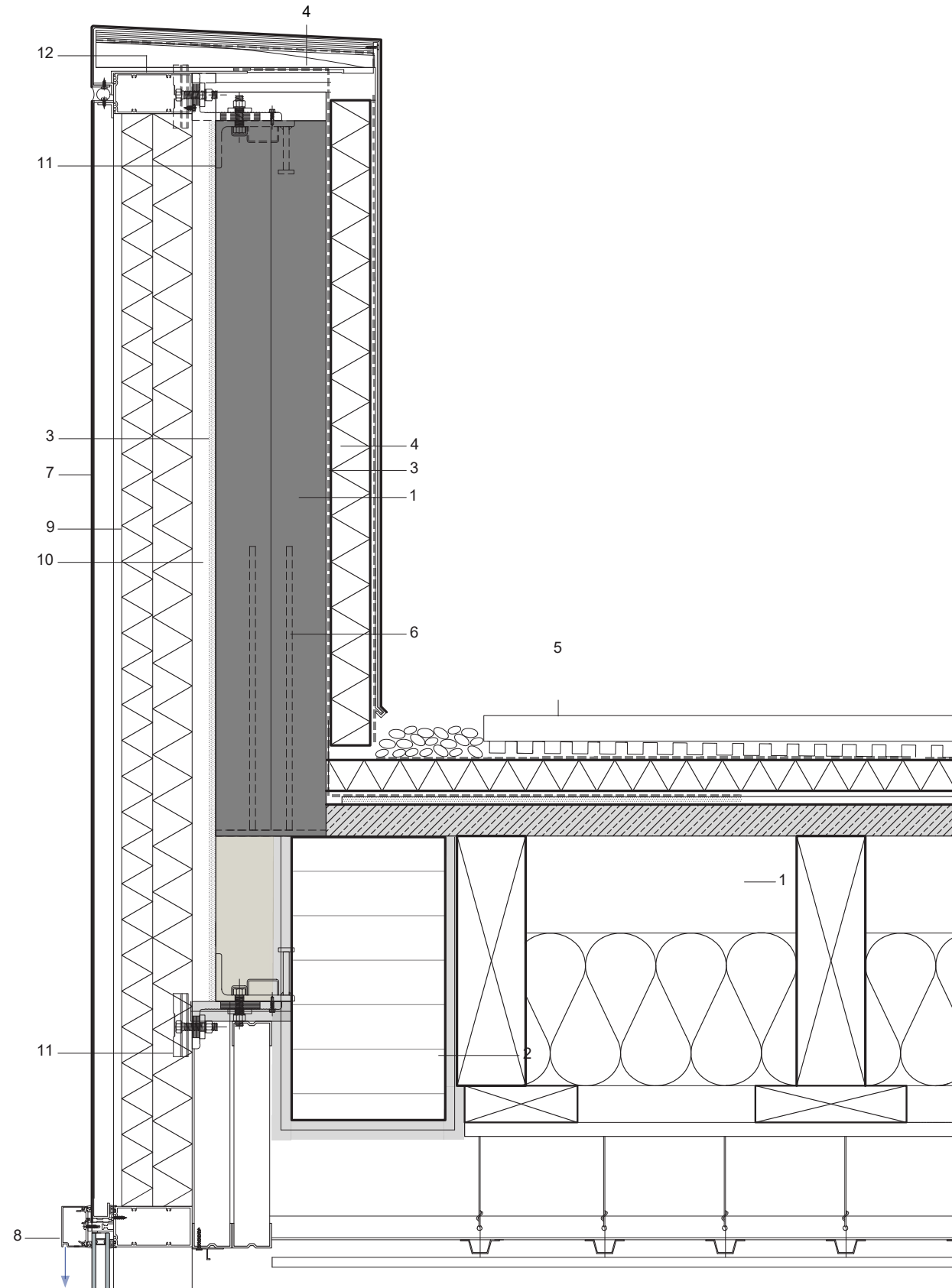












ROOF VERTICAL SECTION





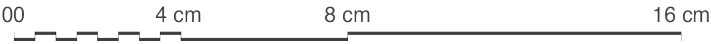
SOUTH EAST FACADE

00 4 cm 8 cm 16 cm





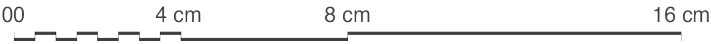
SOUTH WEST FACADE







NORTH WEST FACADE



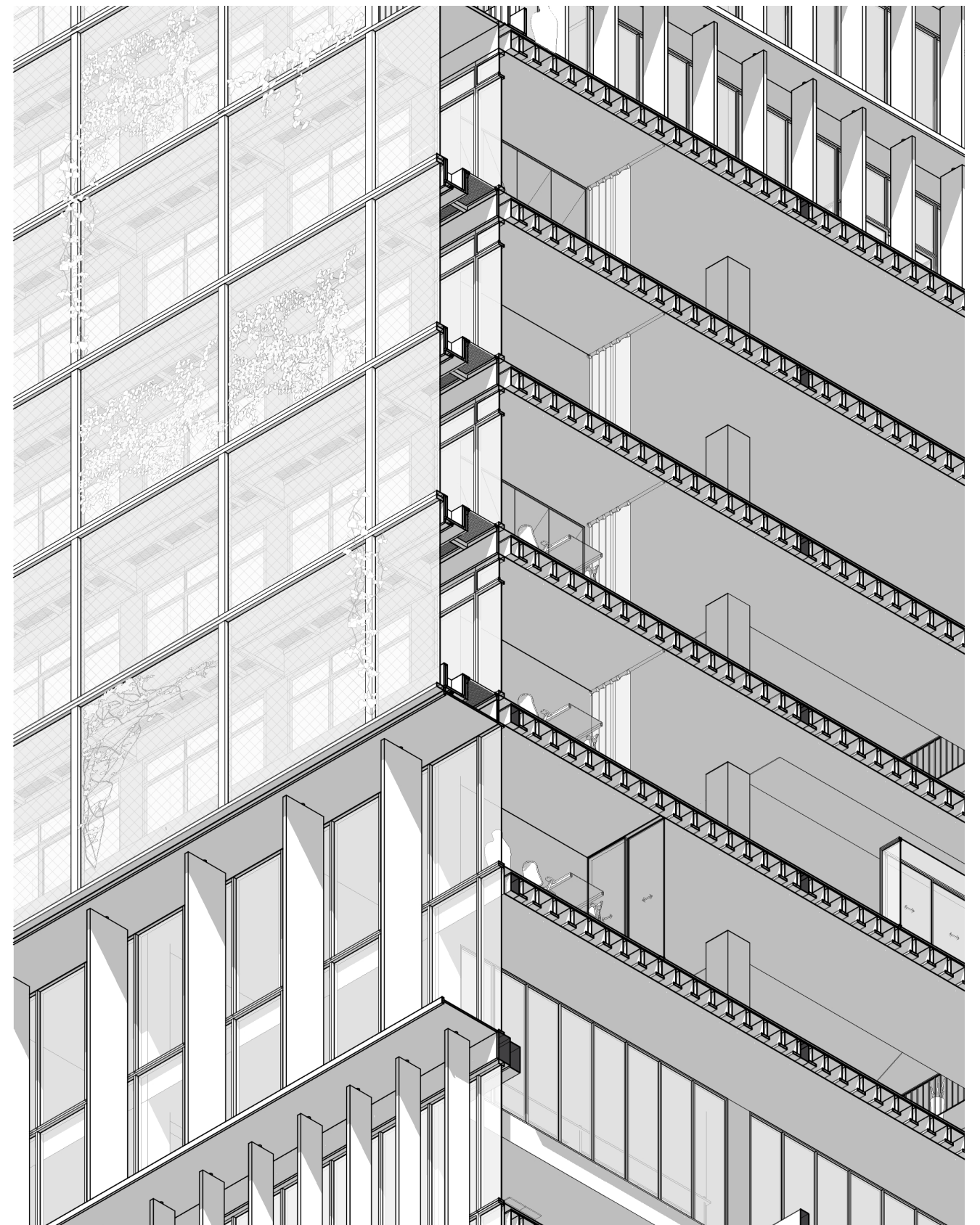
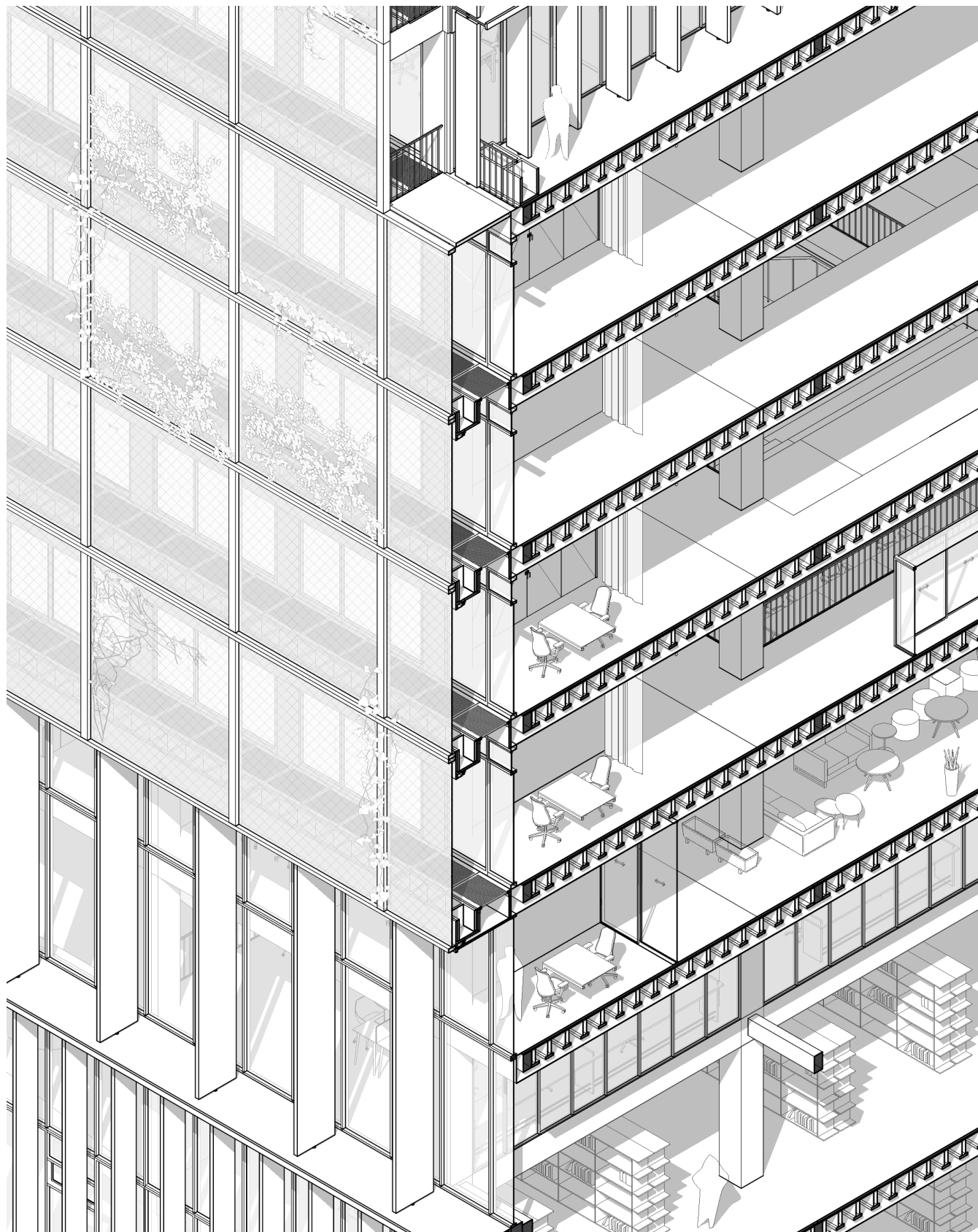




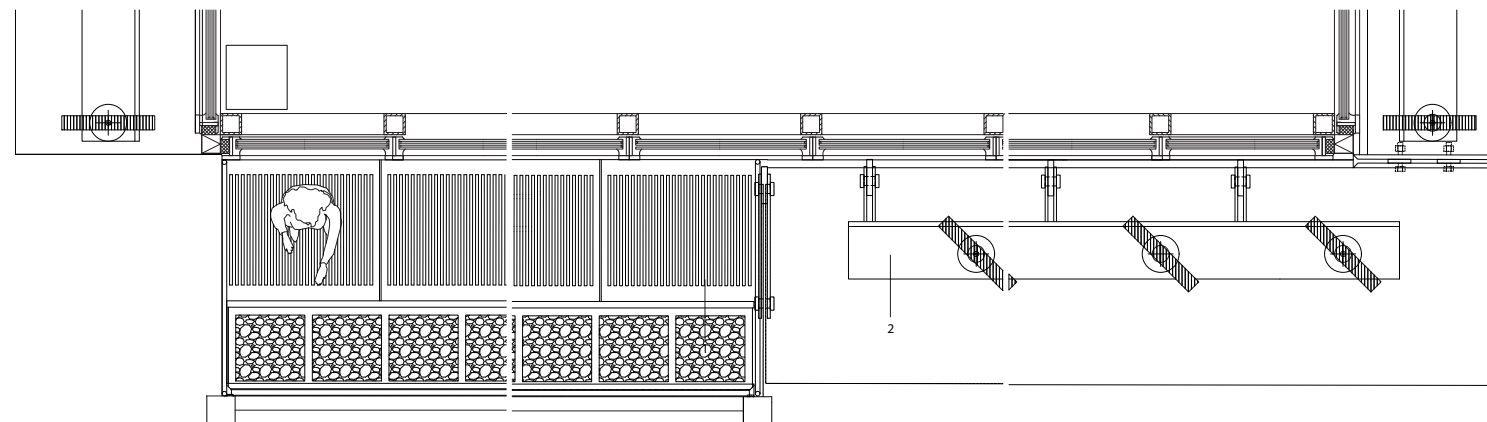
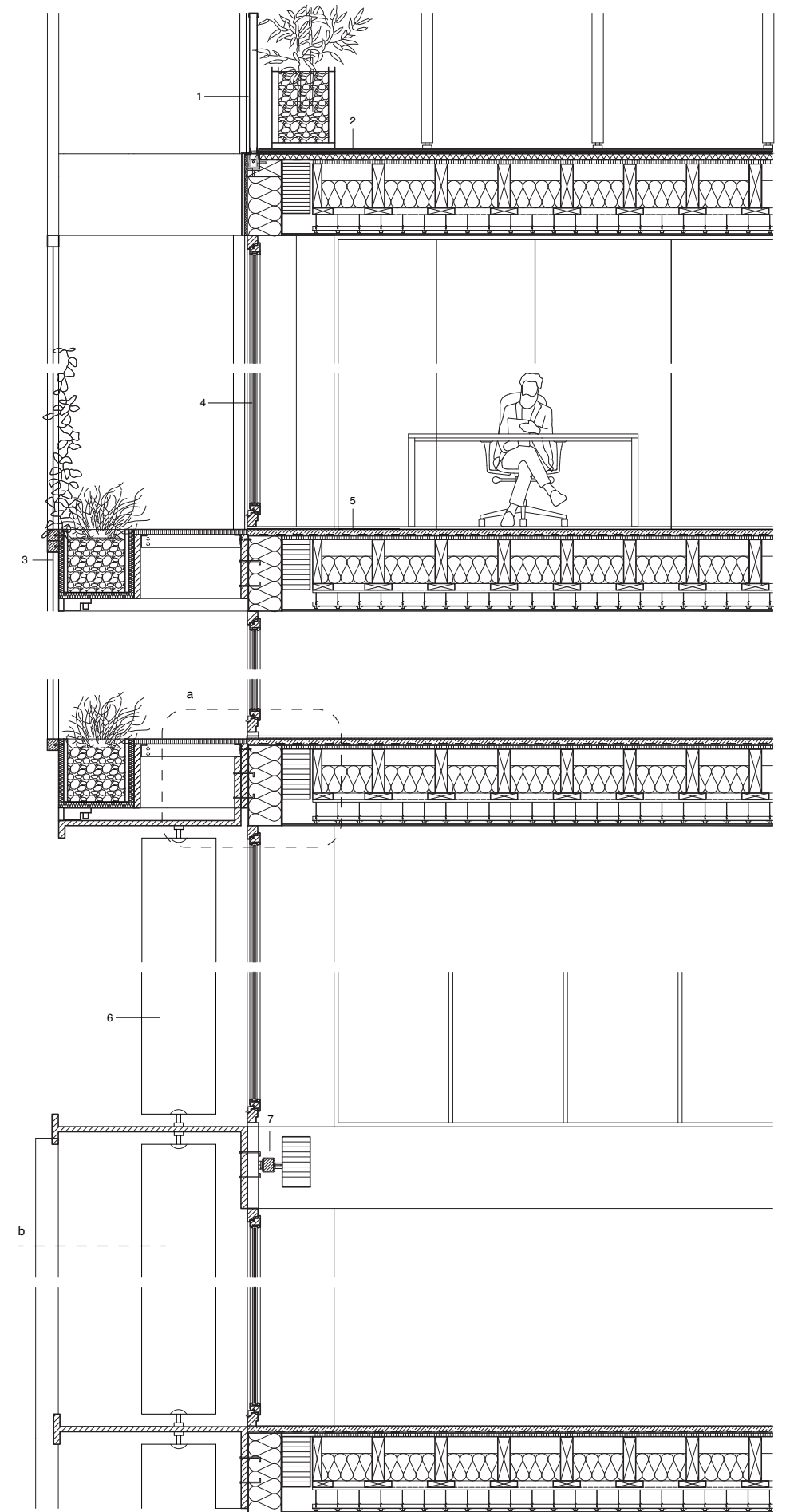
## NORTH EAST FACADE

00 4 cm 8 cm 16 cm





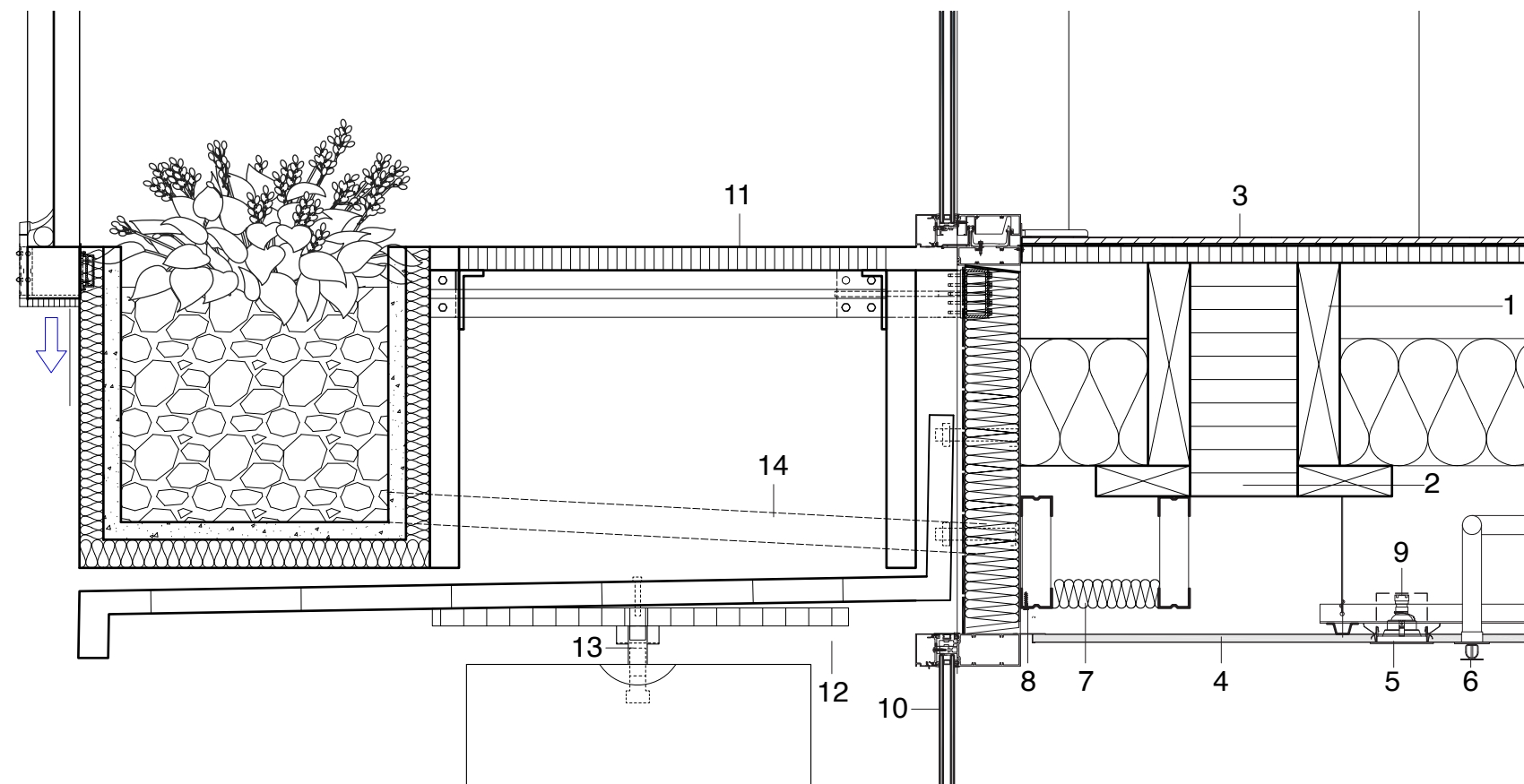




facade horizontal section

facade vertical section

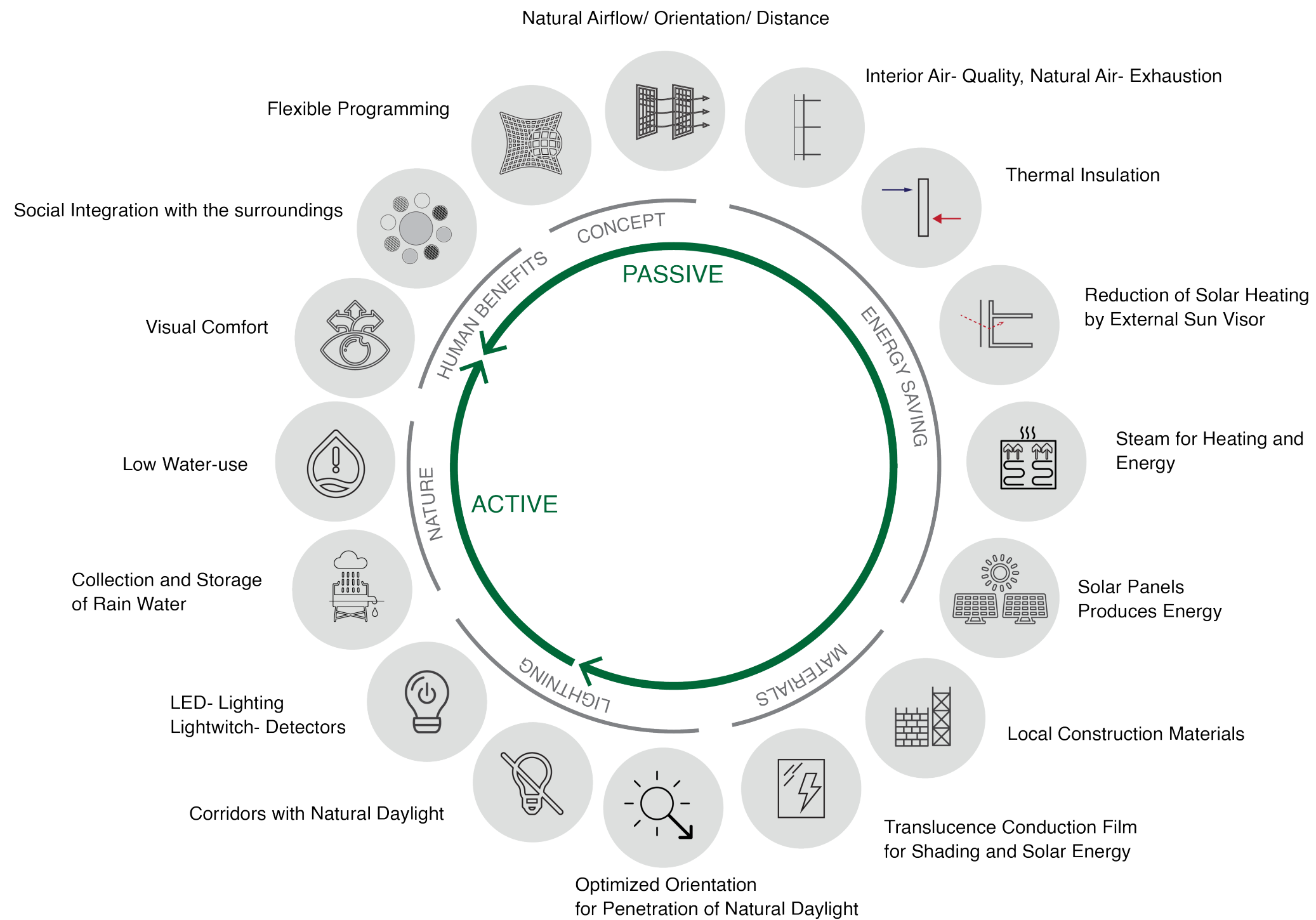






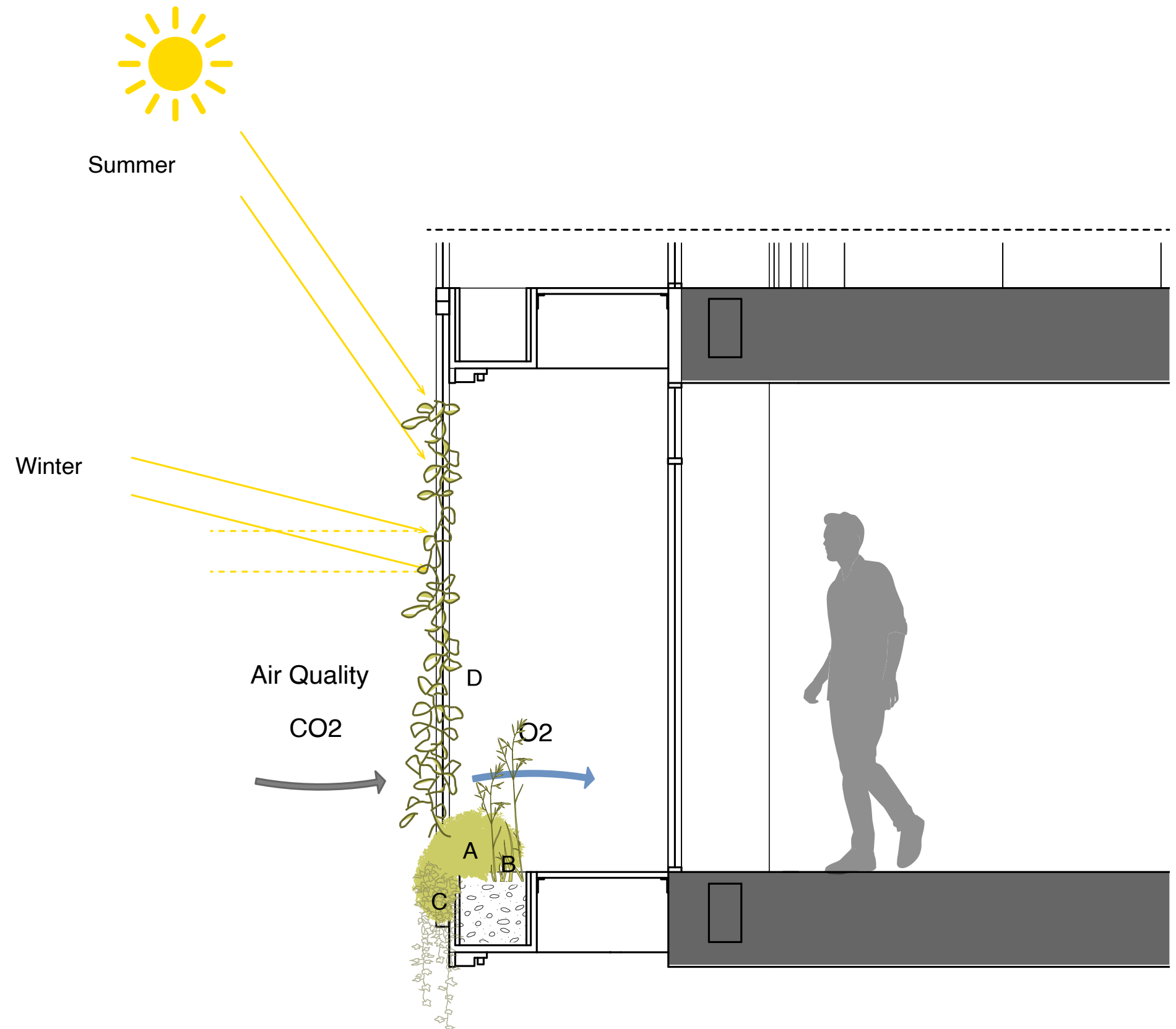






## SUSTAINABILITY STRATEGIES





#### A Primary Planting

*The most visually dominant plant from inside the building and exterior views.*

#### B Ground Cover

*To fill in any visual void behind the primary planting - visible to interior only*

#### C Cascade Plant

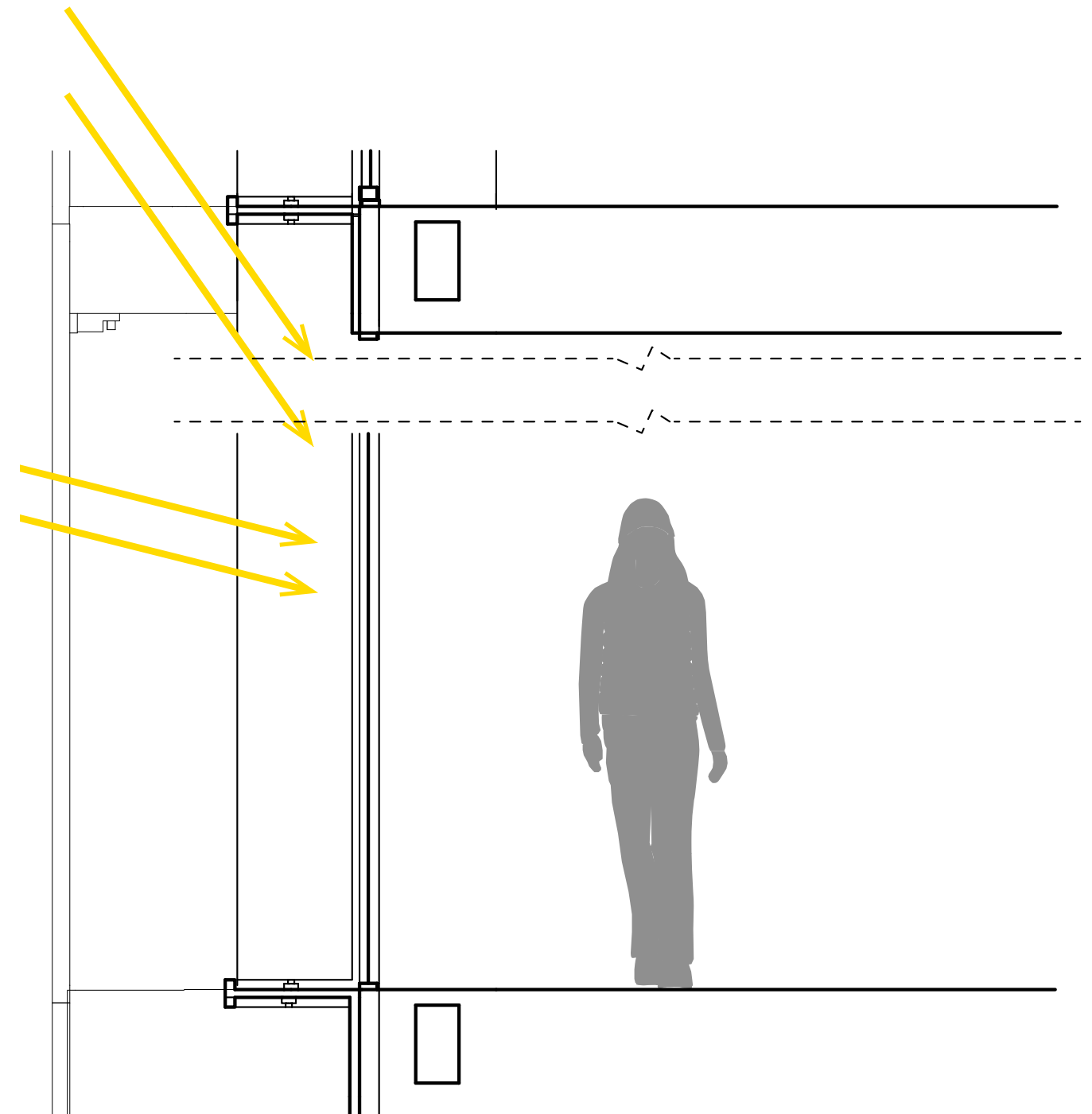
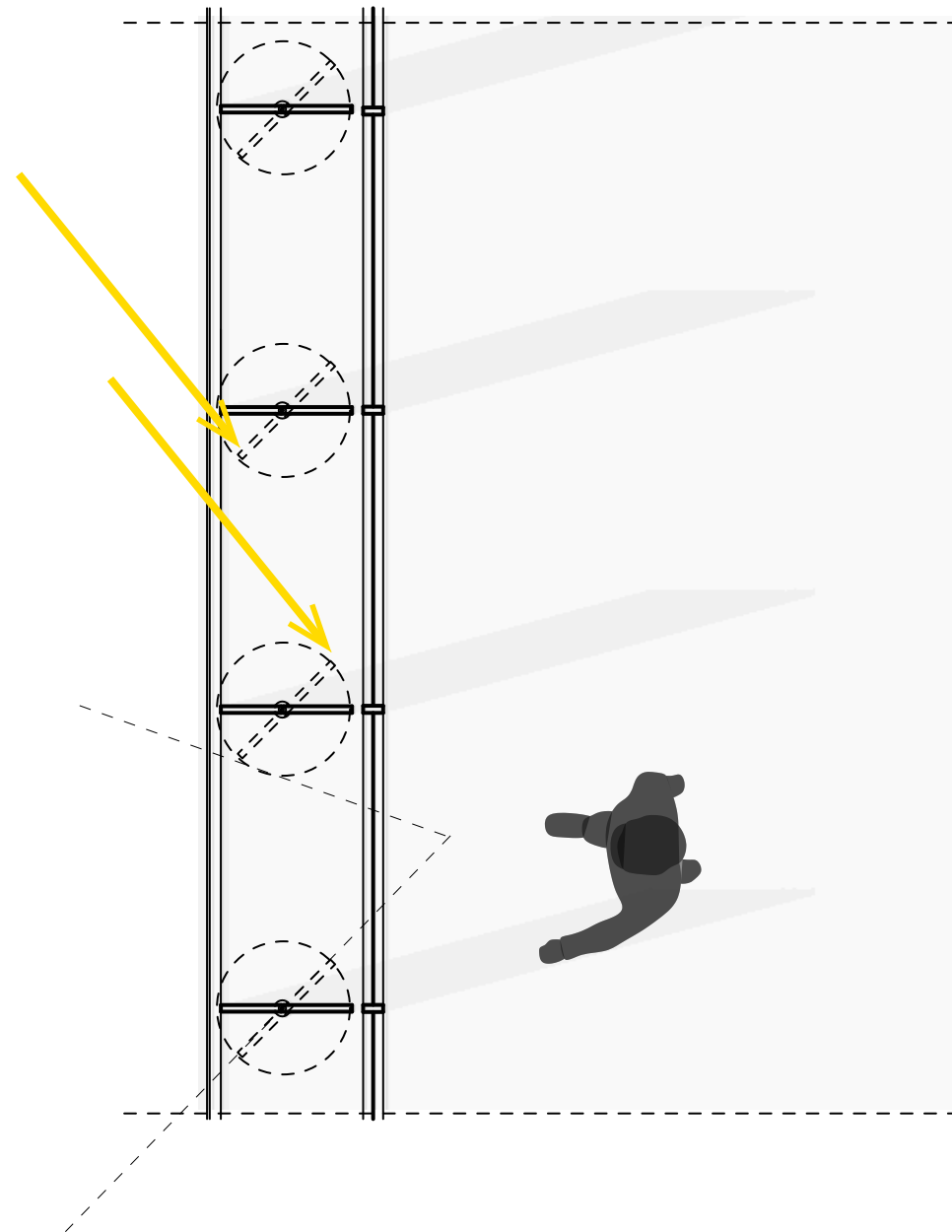
*Used to extend vertical character of the facade.*

#### D Climber

*Used to create vertical landscape*

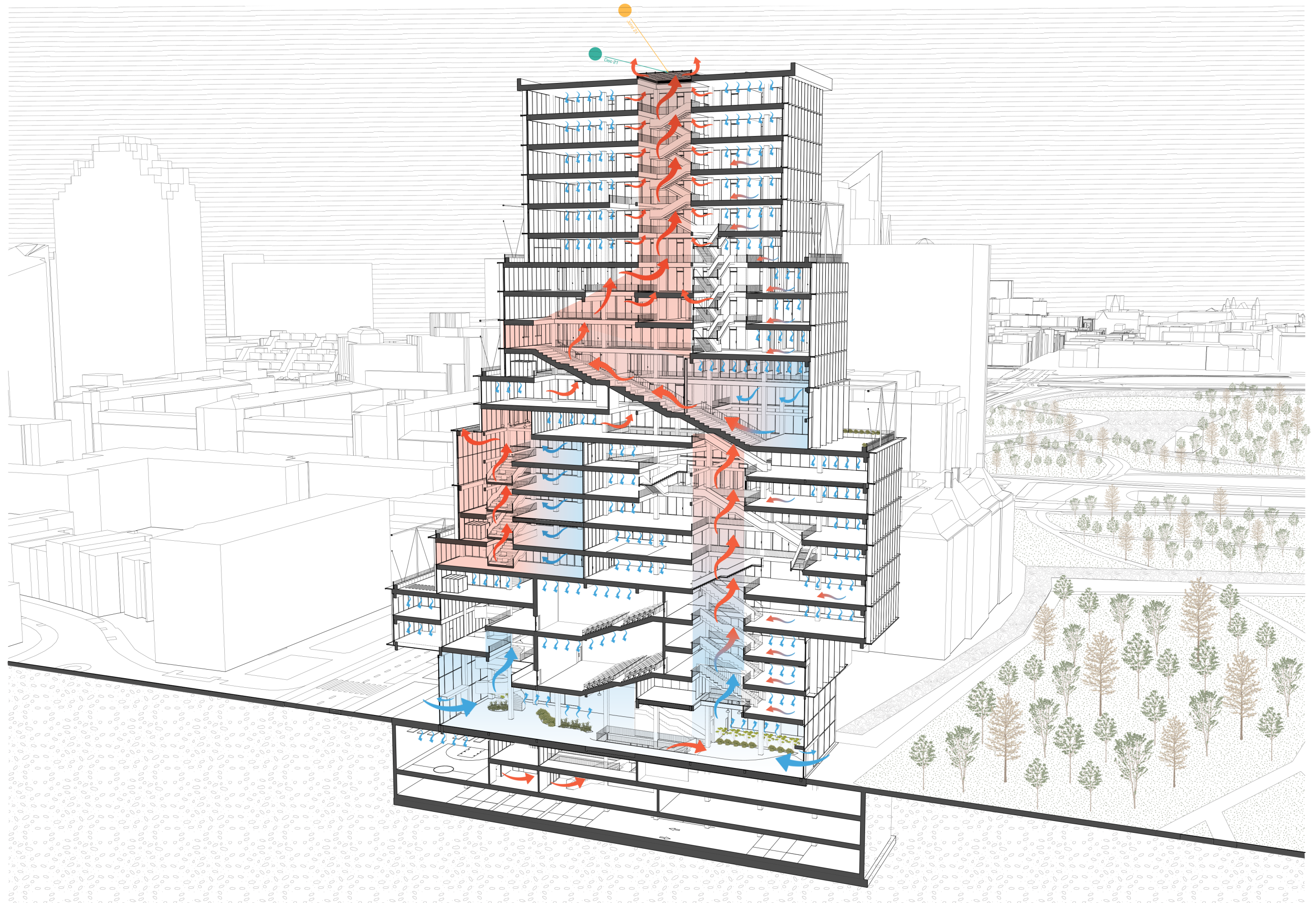
## PLANT TYPES





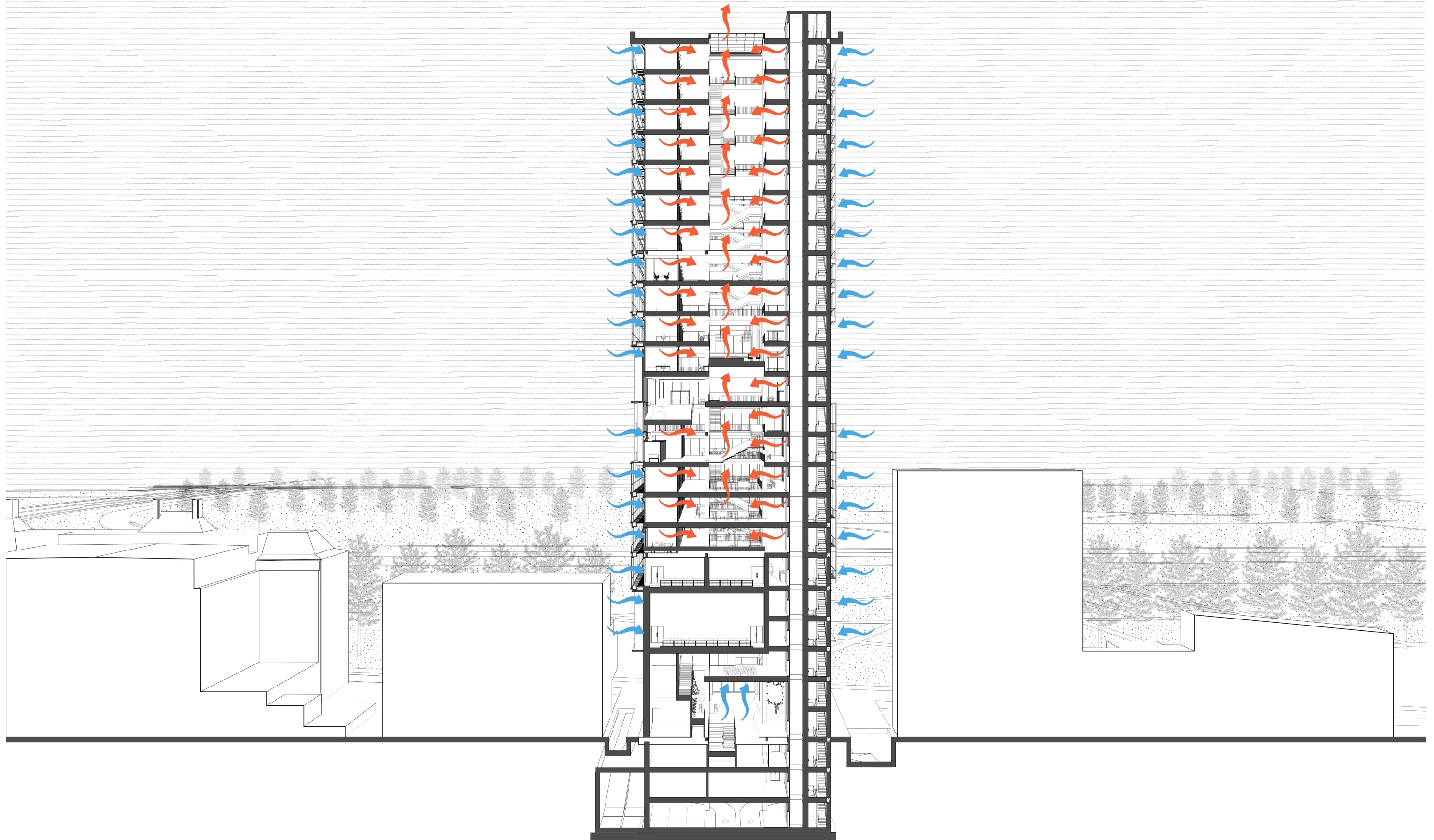
## LOUVER





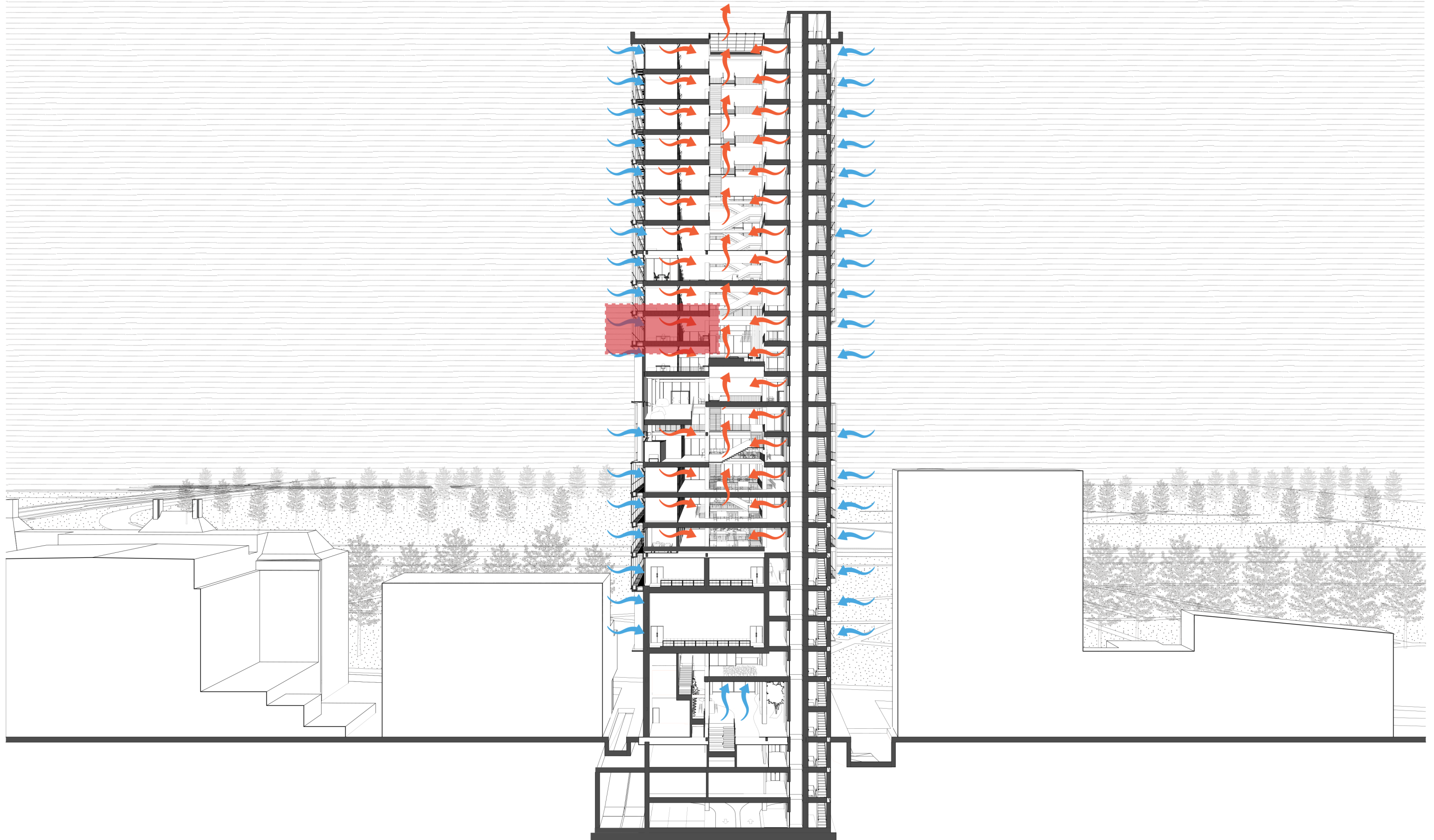
CLIMATIC PERSPECTIVE SECTION





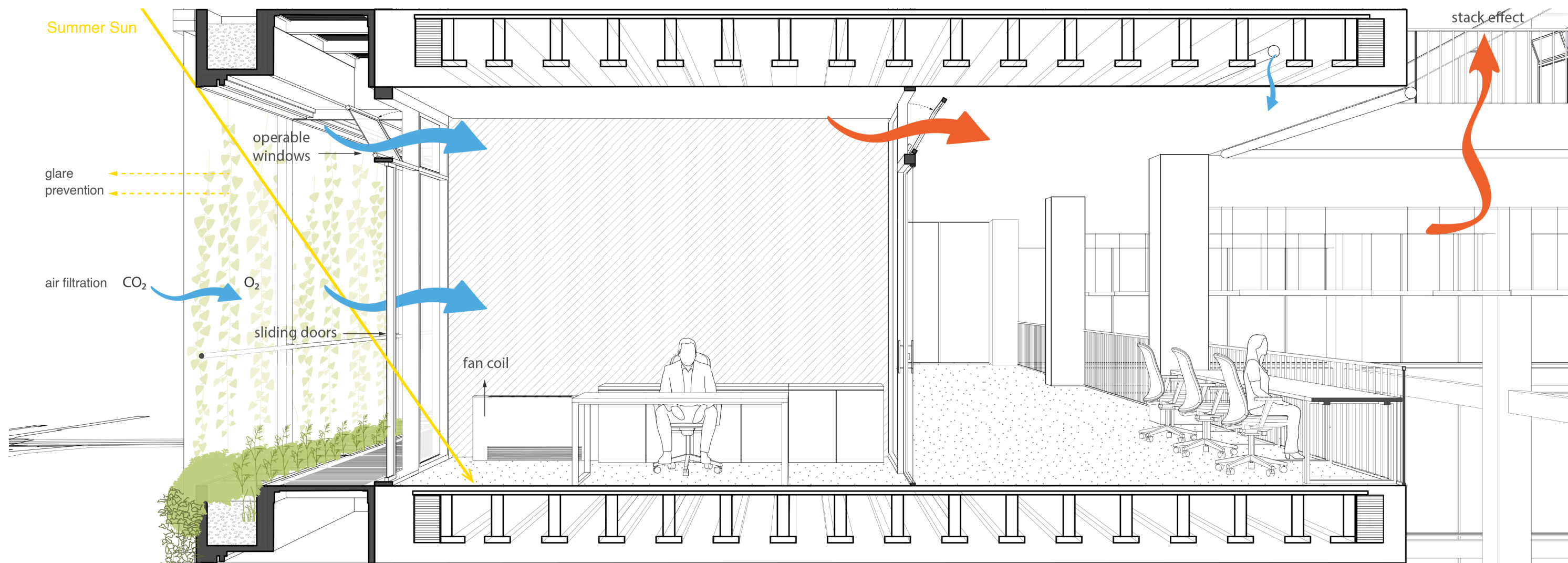
NATURAL VENTILATION PERSPECTIVE SECTION





natural ventilation perspective section

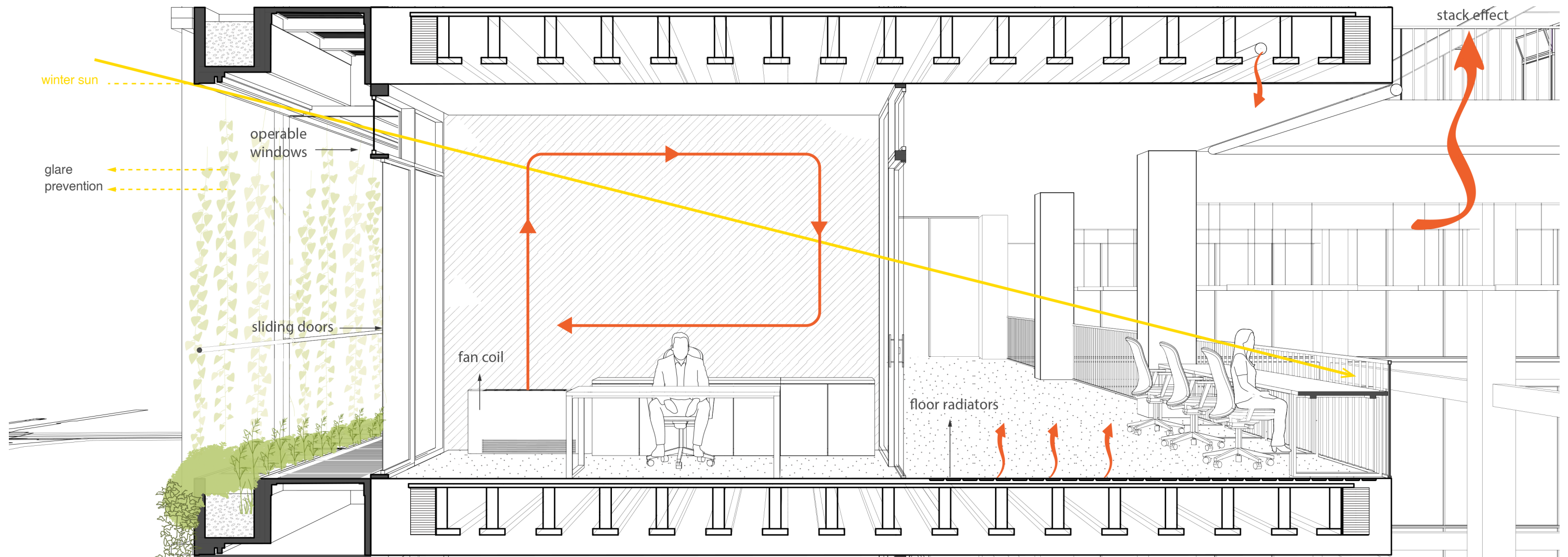




- |                  |           |
|------------------|-----------|
| Sliding Doors    | - Open    |
| Windows          | - Open    |
| Roof Ventilation | - Open    |
| Fan Coils        | - Cooling |

## SUMMER PASSIVE VENTILATION

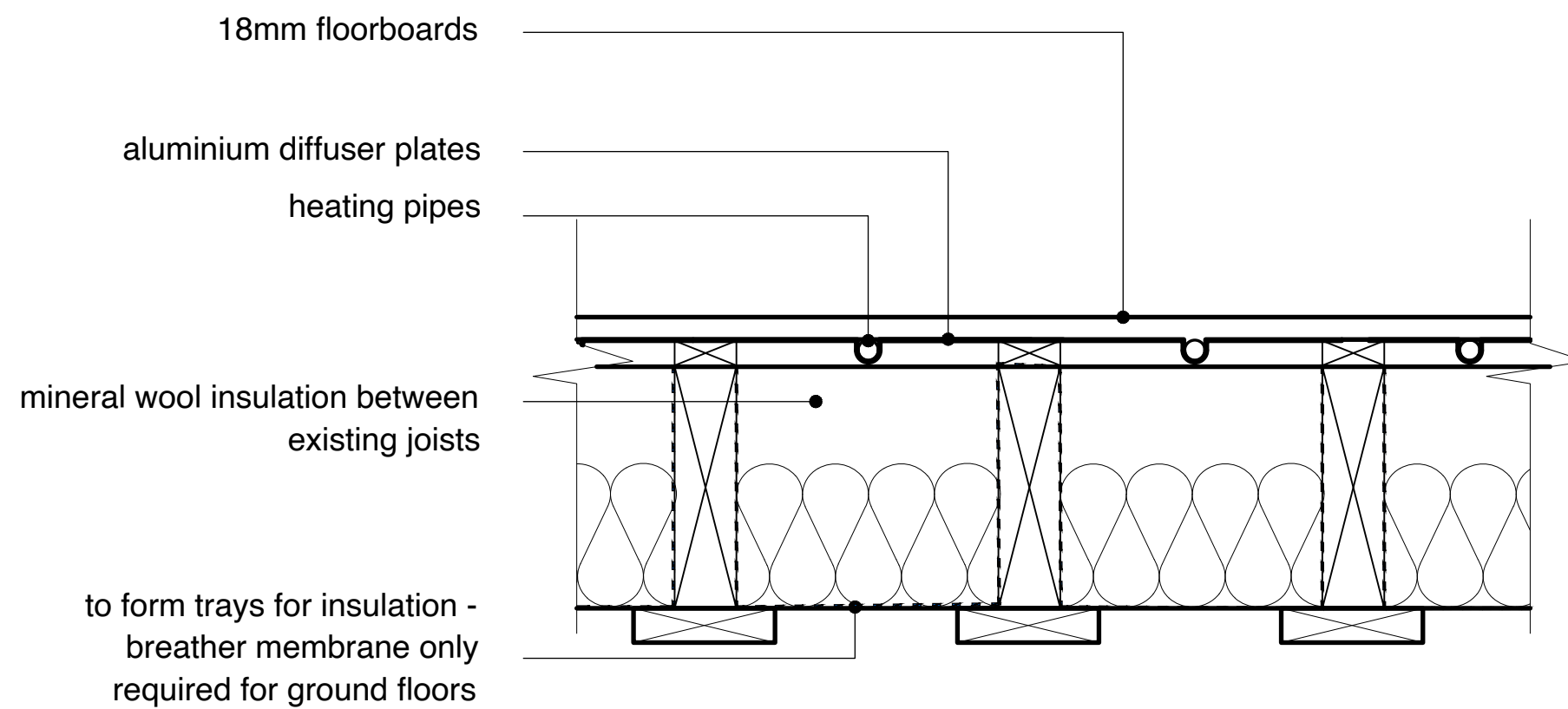




- |                  |           |
|------------------|-----------|
| Sliding Doors    | - Close   |
| Windows          | - Close   |
| Roof Ventilation | - Closed  |
| Fan Coils        | - Heating |

## WINTER ACTIVE HEATING SYSTEMS





## UNDERFLOOR HEATING SYSTEMS



# EPILOG



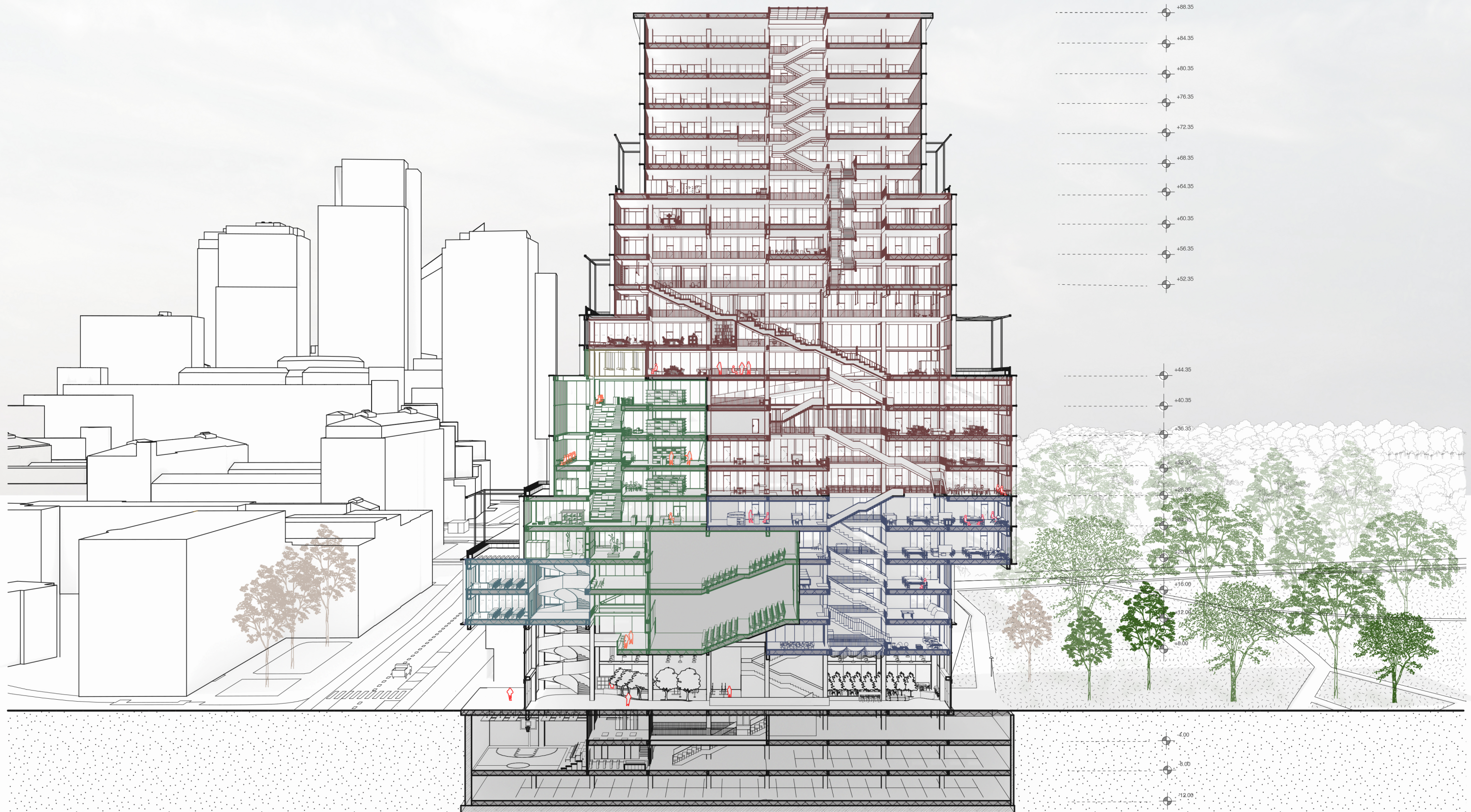








# “A PUBLIC SPACE WITH HIGH SEMANTIC VOLUME”



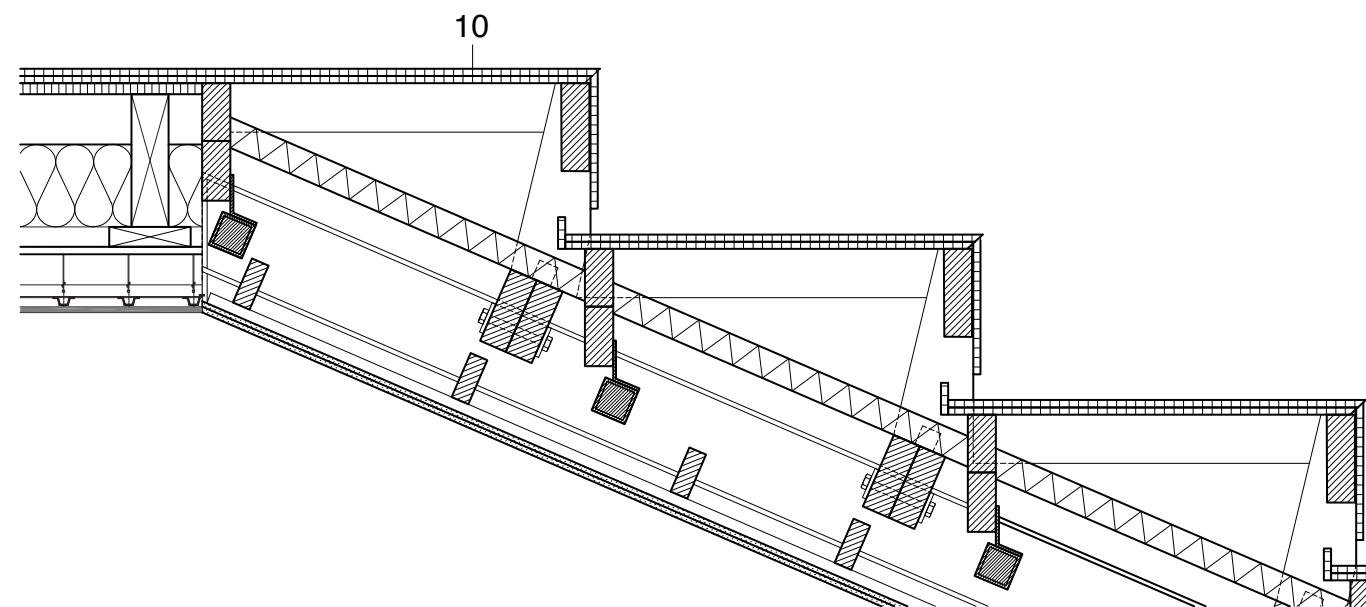


THANK YOU



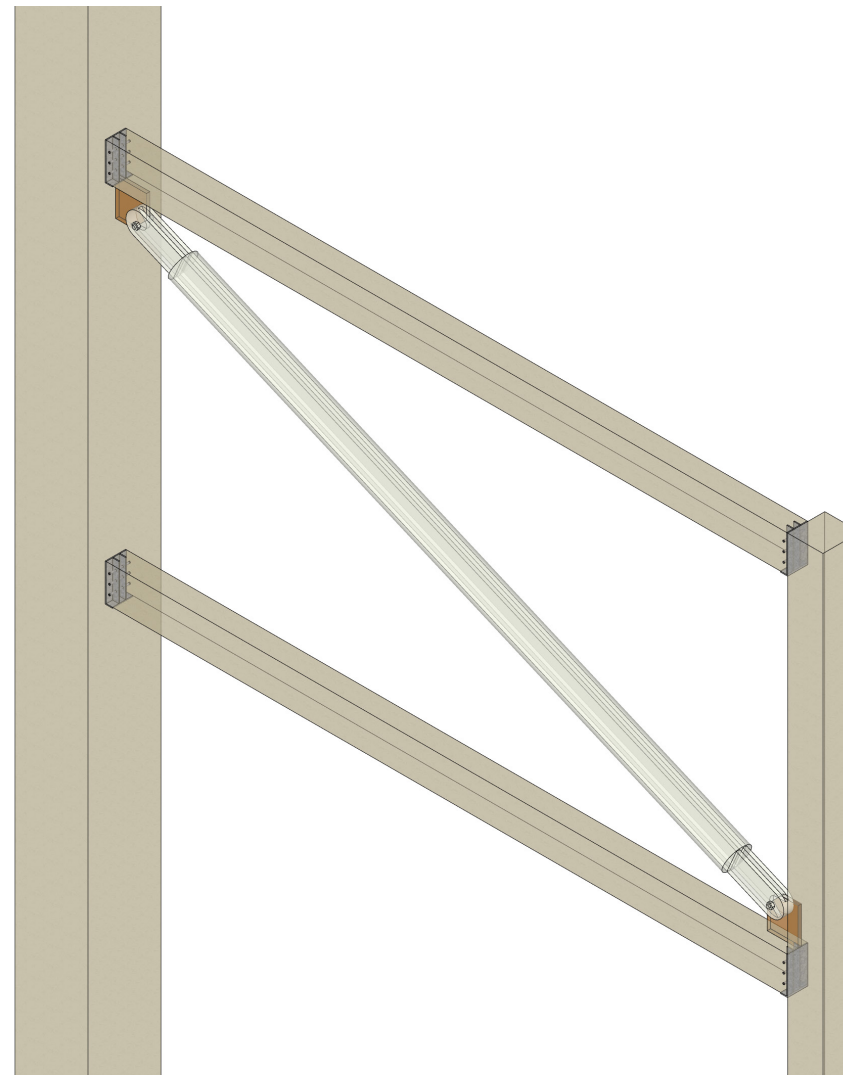
# APPENDIX





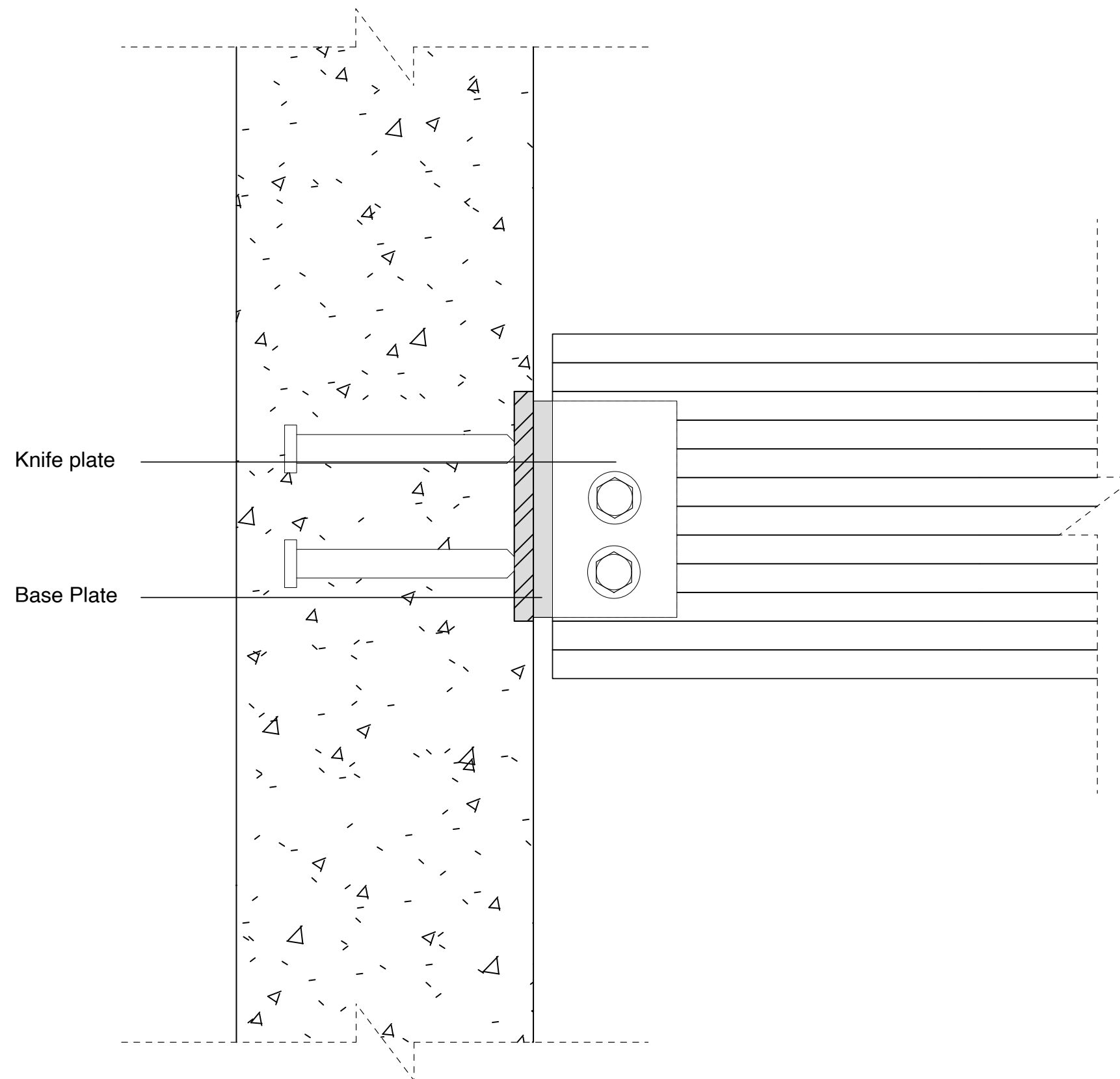
10. Steps for sitting:  
 2× 18 mm birch plywood painted on  
 wood and steel;  
 supporting structure; 70 mm  
 sound insulation  
 G-beam 240 mm deep;  
 2× 12.5 mm gypsum plasterboard





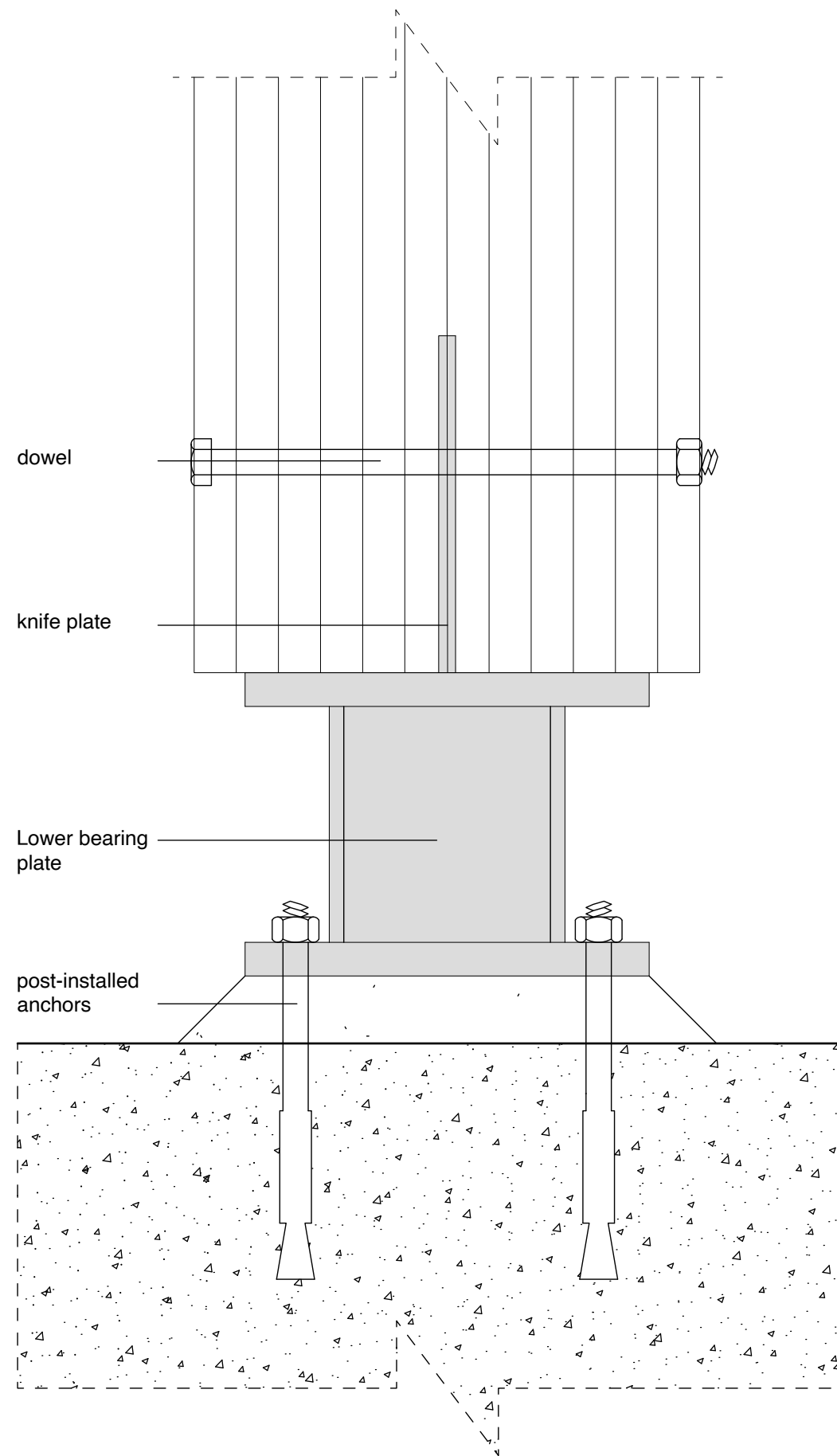
wood column to steel diagonals connection diagram





beam to concrete core connection detail





glulam beam to concrete foundation connection detail