

# ***Future Bank***

P5 presentation  
Interiors Buildings Cities 2021-22  
Yichen Lai

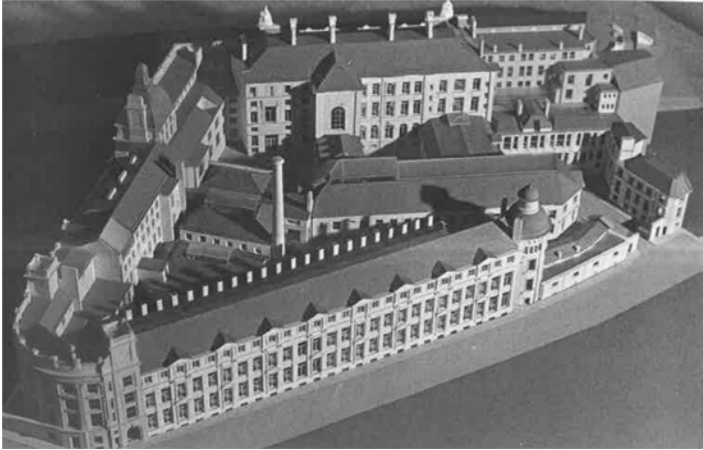
*National Bank of Belgium*  
*2021*





# History development

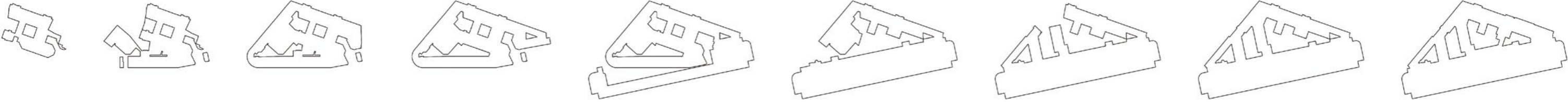
Hendrik Beyaert + Louis de Rycker buildings



National Bank of Belgium fully completed



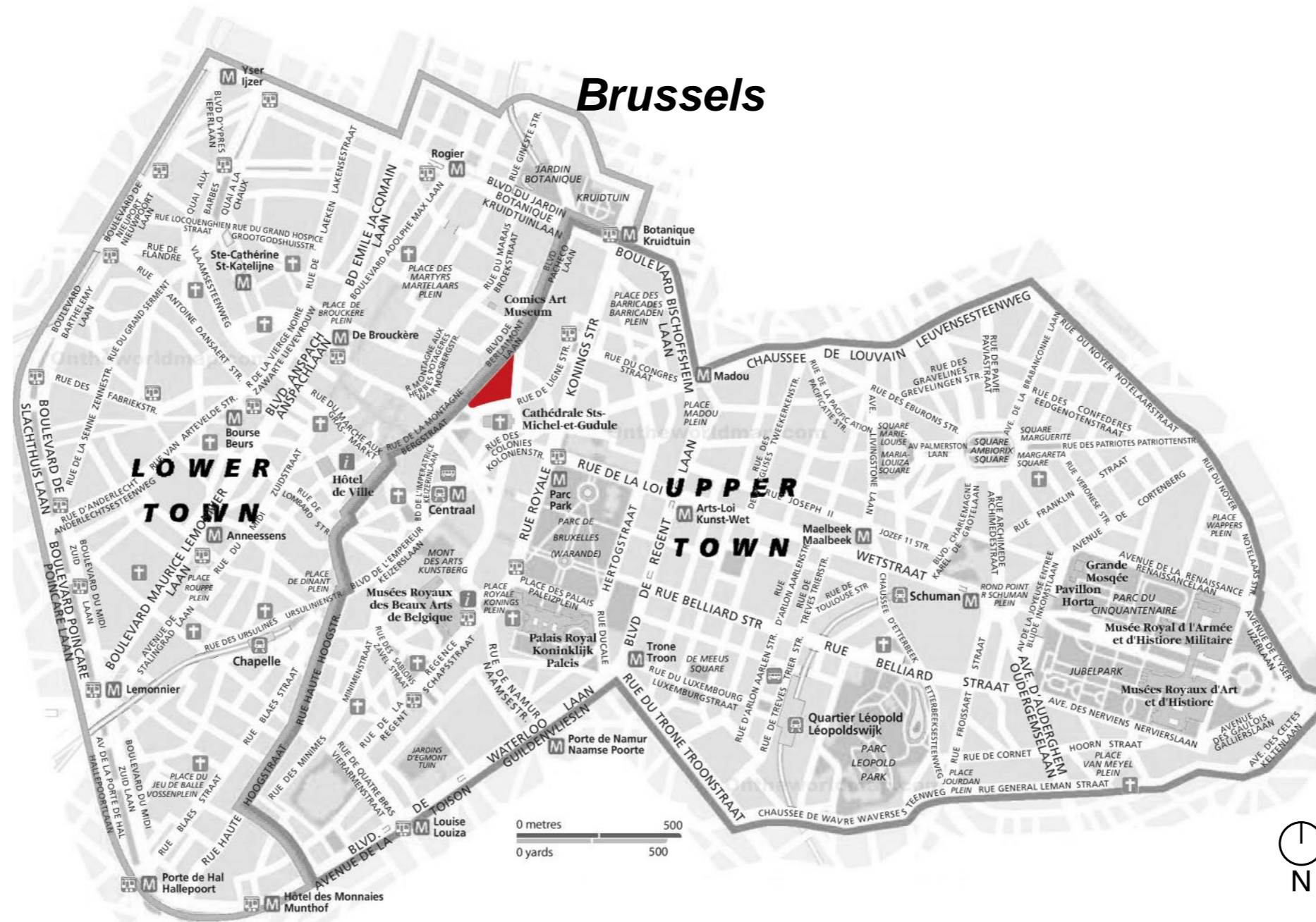
1860-1874 — 1871-1878 — 1900-1908 — 1948 — 1949 — 1952 — 1954 — 1965 — 2021



The first phase of the building(block on the Berlaaimontlaan) completed next to the existing bank



# Site



*Western commercial quarter*

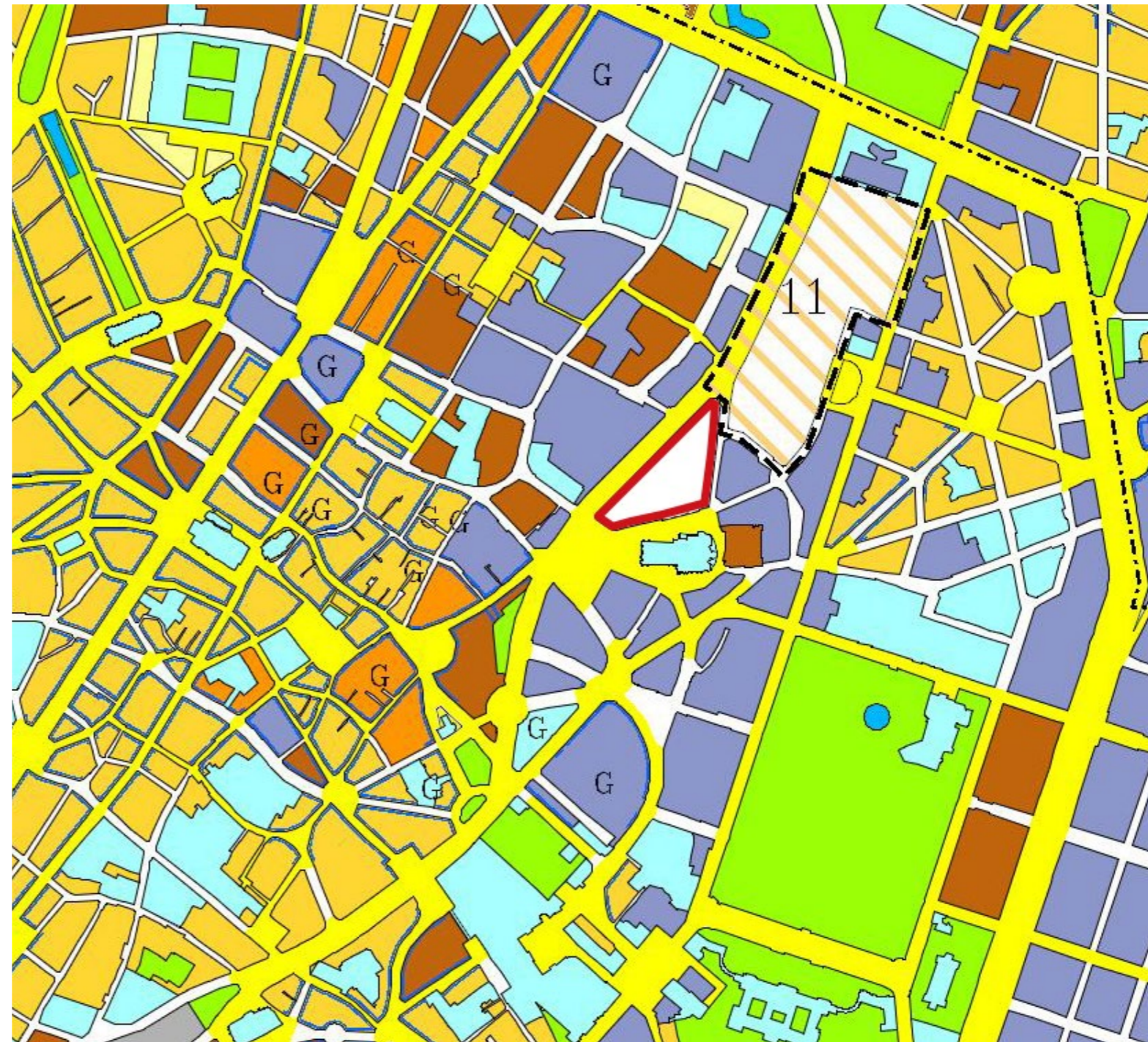
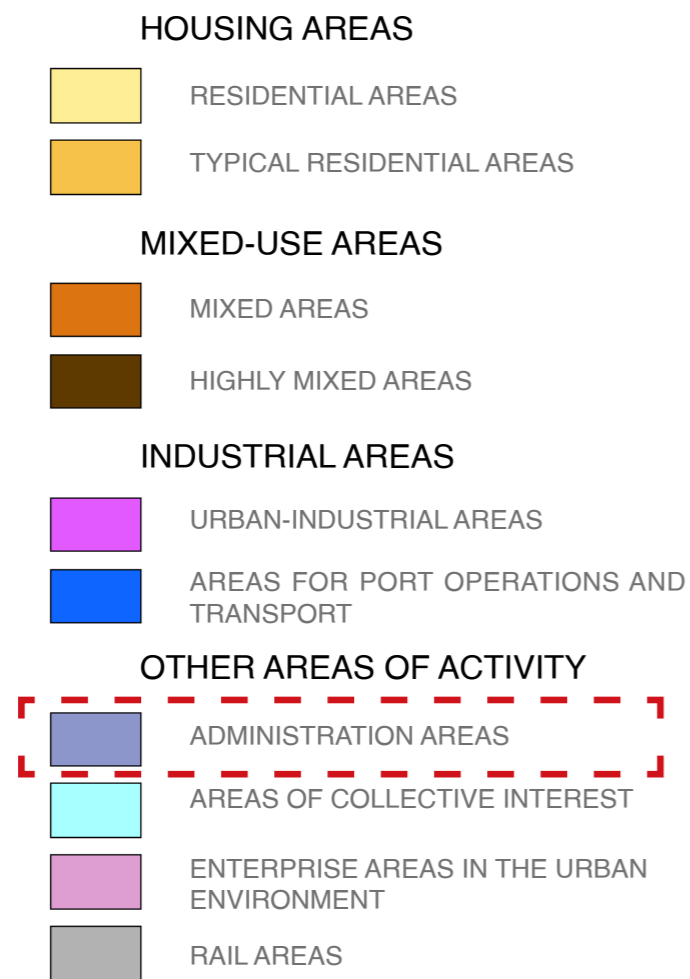
*Eastern elite area/ principal government buildings*



# Land use

Mainly surrounding landuse:  
Administration areas

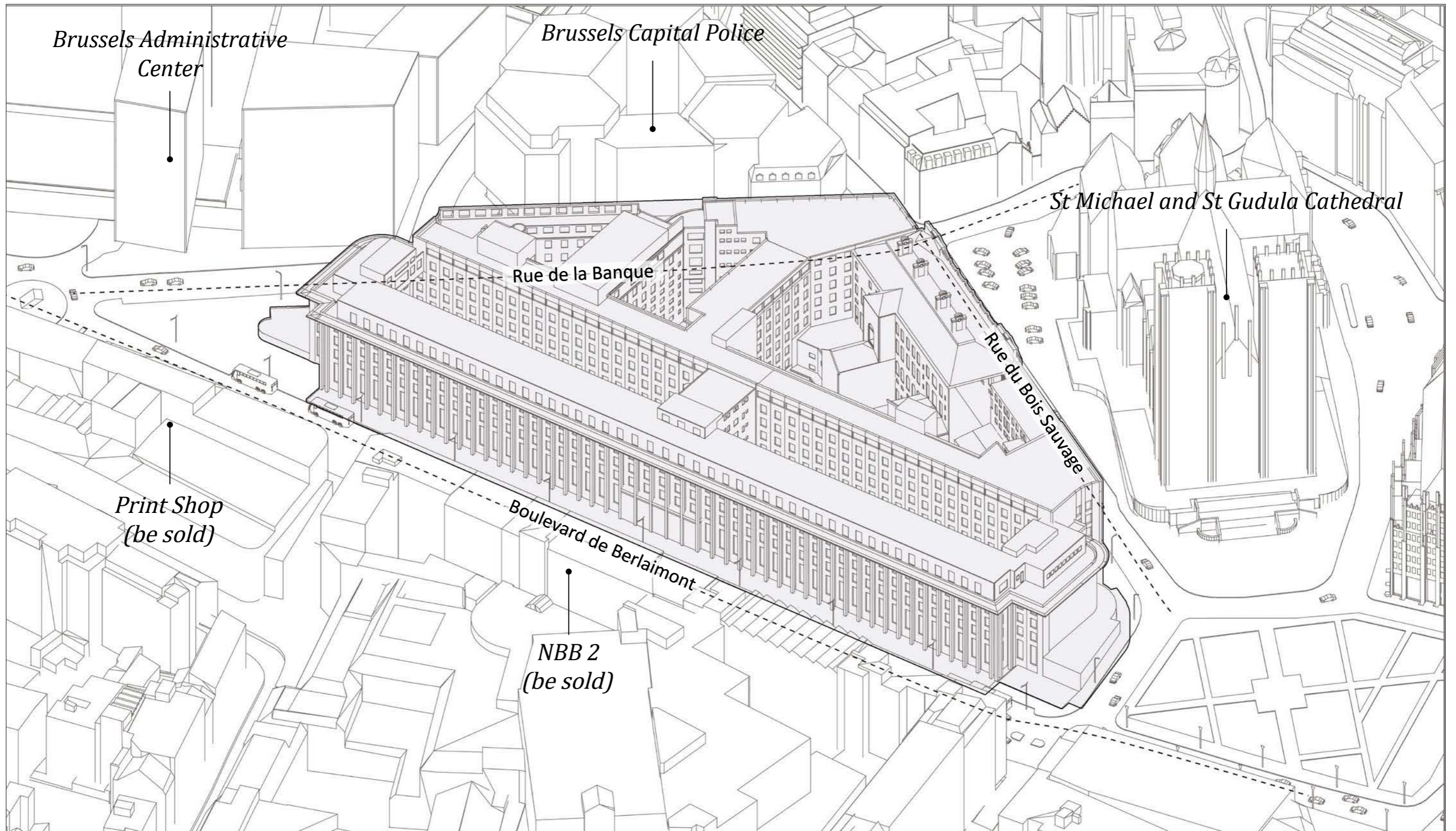
serious and formal



The soil destination map. Source: perspective.brussels



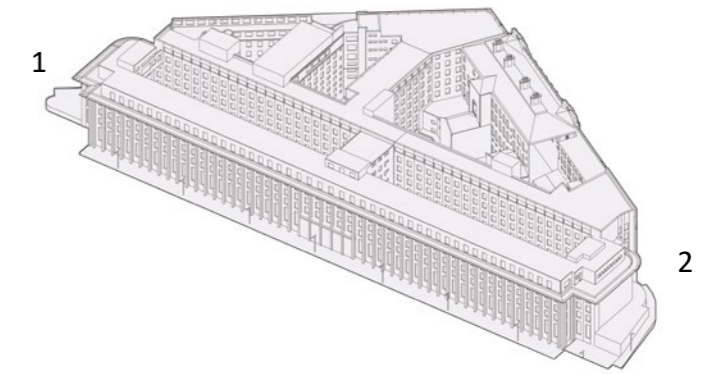
# City bank





# Bank facade

2021



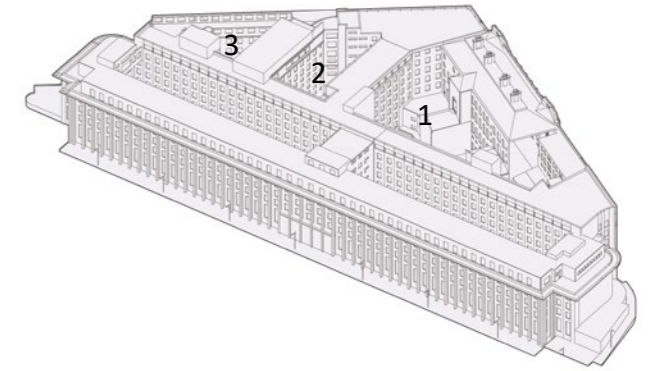
1



2



# Bank Courtyard



2021



1



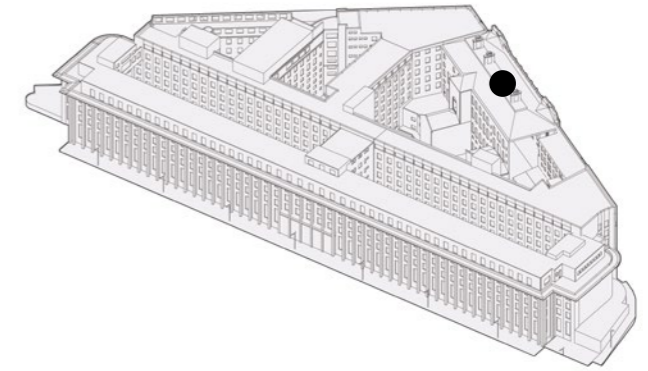
2



3



# *The Governor's Hotel*



2021





# *Bank Hall*

1950s



2021





# *Bank Office*

*1950s*



*2021*

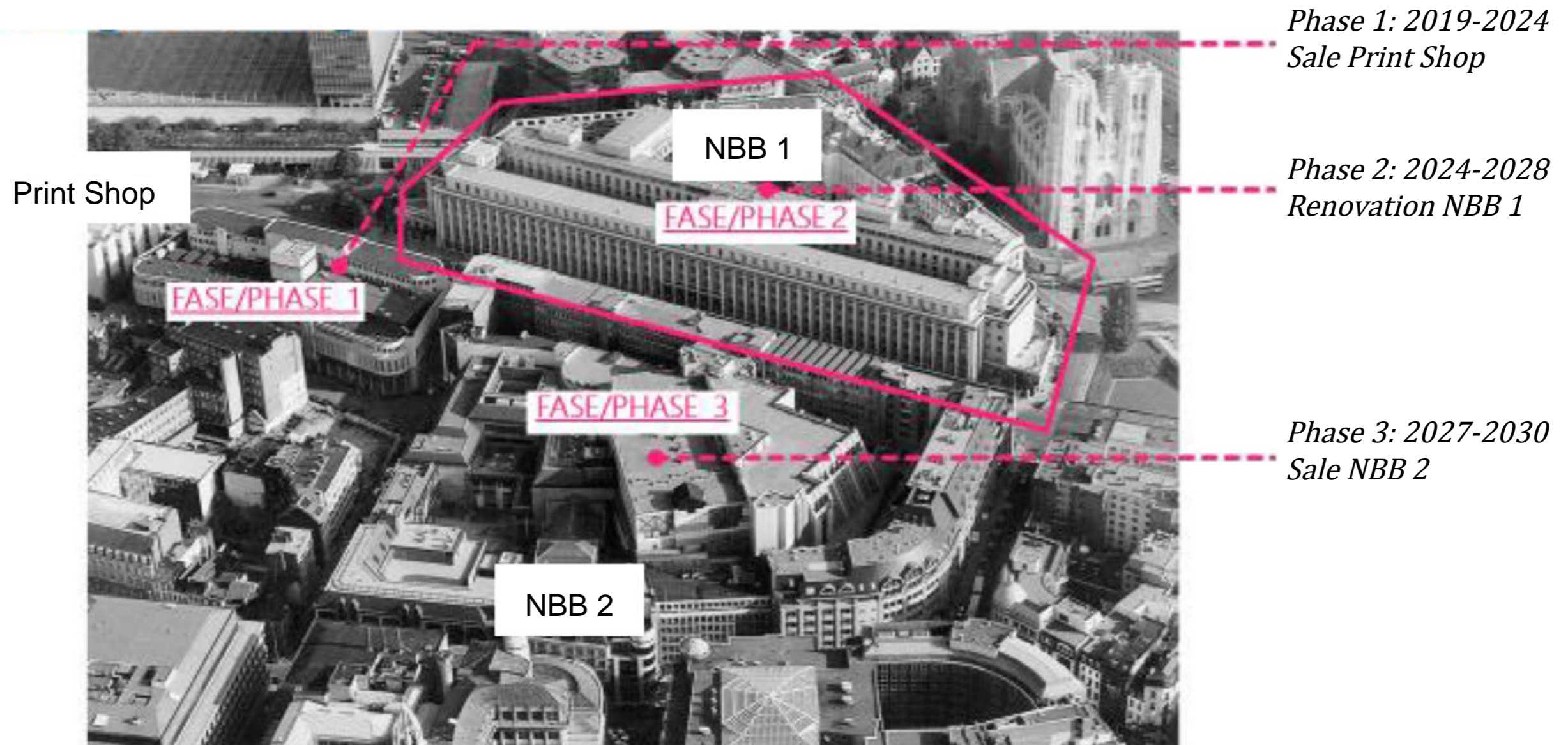




*A catalyst for change*



# Real Estate Strategy 2020





## *New vision*

*...The “National Bank of Tomorrow” aspires to a clear leadership role that is relevant and leading in its changing environment. It wants to present itself as a modern bank at the heart of the Eurosystem. Inclusion and diversity are important pillars in our business, but sustainability in the broad sense of the word and corporate social responsibility are also elements on which we actively focus. A well-considered and efficient use of the necessary and available resources are important points of attention.*

*‘new vision’ document, NBB, 2020*



# *Reprogramming*

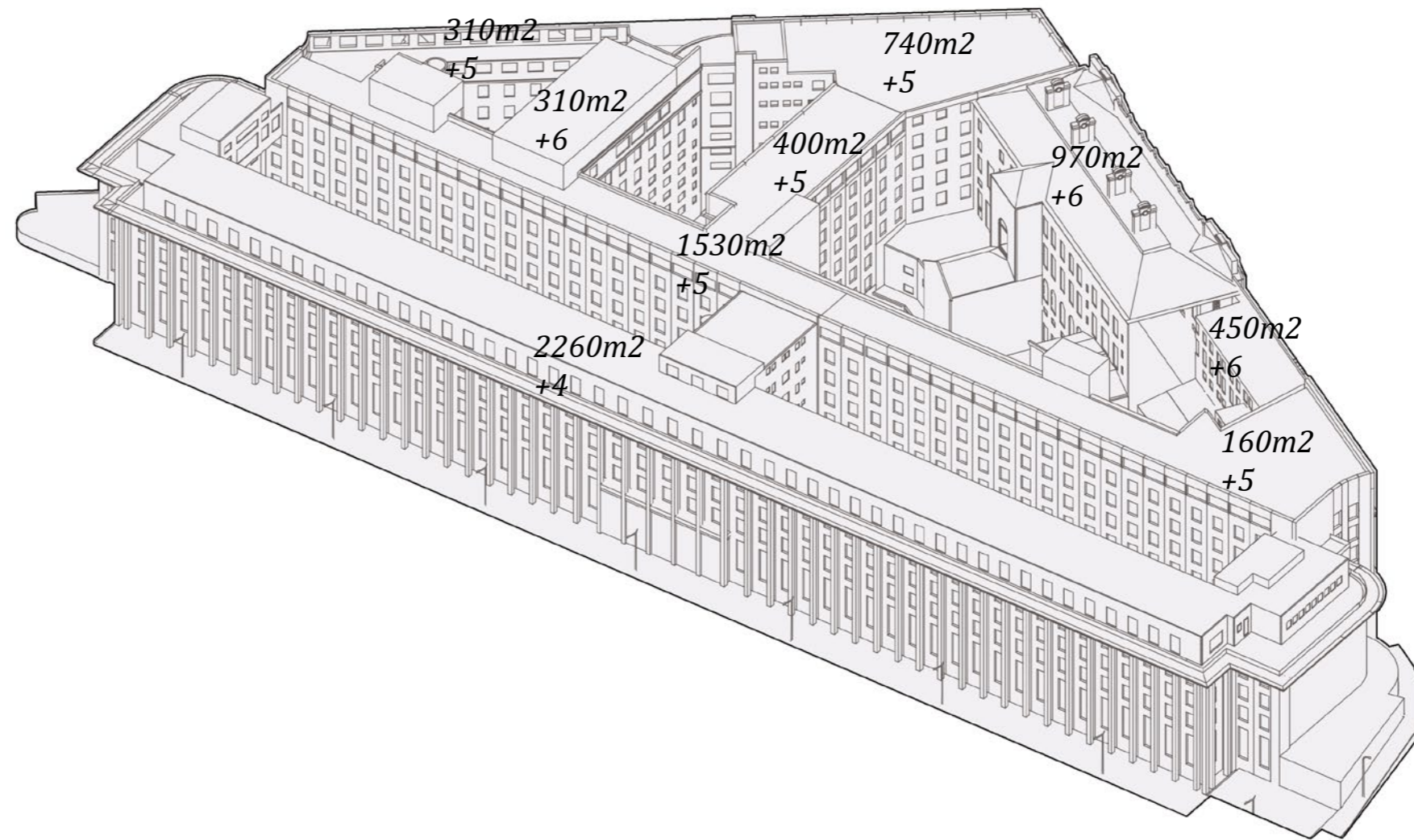


# Building information

-Gross Floor Area:  
91,000m<sup>2</sup>

-Site Area:  
15,000m<sup>2</sup>

-Building floor:  
max. 7 floors above ground  
partial basement 2 floors





# Required Program

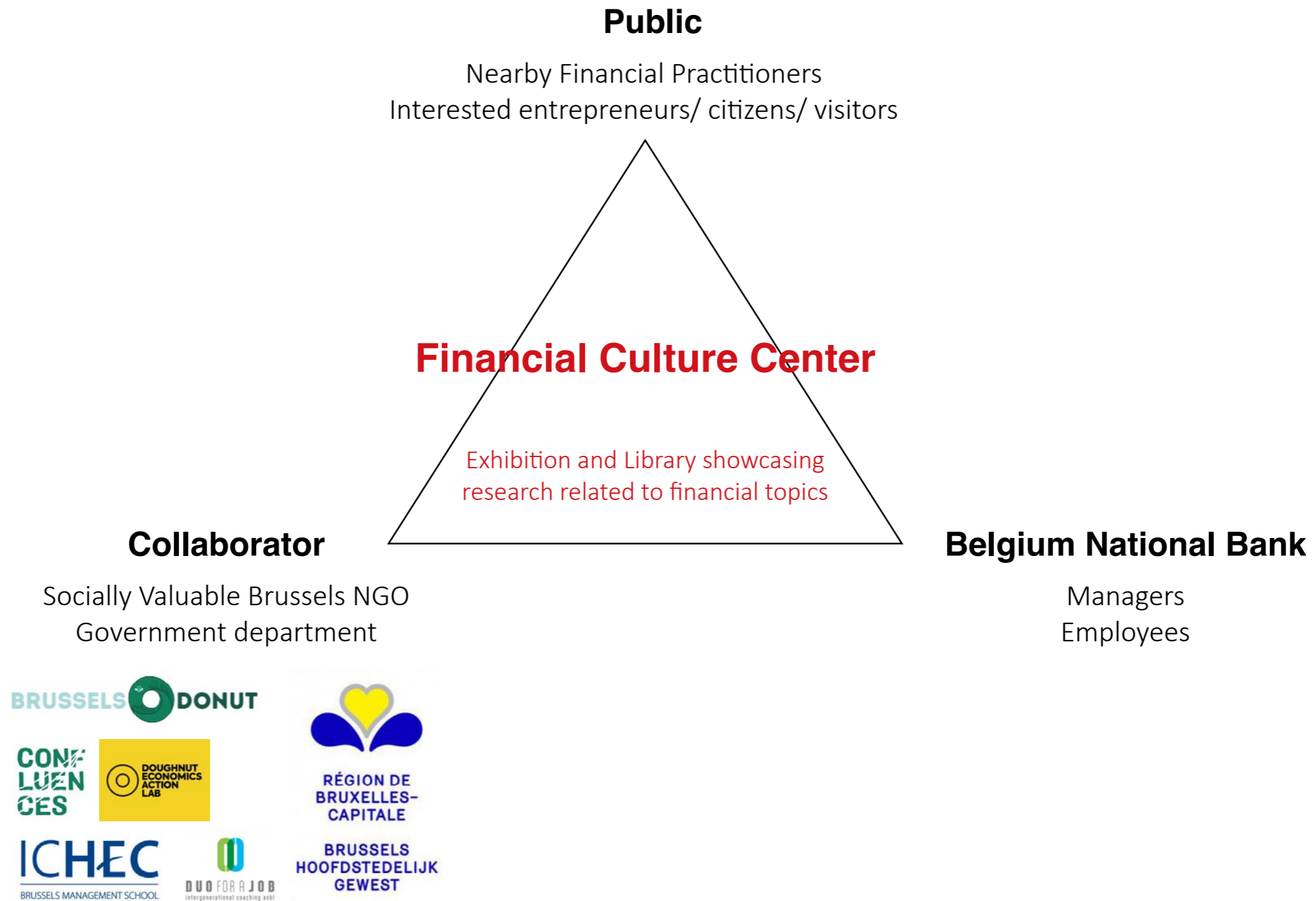
NATIONAL BANK OF BELGIUM SUMMARY OF PROGRAMMATIC COMPETITION BRIEF				
FUNCTION	DESCRIPTION	TOTAL AREA / m2	BREAKDOWN	NOTES
OFFICE				
	Typical	22500	15m2 per person of which 3m2 per person is collective, including coffee corner / printing / kitchenette / lockers.	1500 WP (1700 workers / flex working so lockers and storage) -to be worked out by students in detail. 300 WP should be able to be separated and be flexible and easily rented out
	Specific	300	The area is unspecified. The 300m2 total is based on 15m2 for the 85 people specified. However as there are specific offices there is some flexibility in this.	85 WP OFFICE incorporating: Reception with workspace for 3 staff / waiting space for 6 persons / coffee corner / toilets / small kitchen / lounge for informal discussions
	Senior Managers	400	6x30 m2 senior managers offices + 100m2 board room + 40m2 dining room + 2x30m2 meeting rooms + 20m2 coffee corner	6 senior managers offices / board room for 30 participants / dining room for 10 / 2 small meeting rooms / coffee corner
	HR	120		6 offices space / meeting room 10 people / archive
	Trading Hall	240		Rooms with screens from which traders can follow the Market
	Crisis Centre (high security)	150		Crisis / Data Centre / Control Room / meeting room for 15 people
	Reception	25		
	Foyer			
	Auditorium			250 seat auditorium including projection room, Positioned in order to be able to independently function
	Finishing Kitchen			catering for 300 people
	VIP Meeting			Salon for 8 people
	Press Room			20 Seats
	Wardrobe			200 people
	Central Meeting Rooms			4x5person, 4x12 person, 3x20 person, 1x35 person, 1x50 person, 1x100 person
PUBLIC FUNCTIONS				
	Entrance Hall(s)			Arrival of visitors of different kinds, consider security, accessible entrance
	Reception Desk	60		Back office for 3 people
	Waiting area			For visitors

	Public Meeting Rooms			2x12 person, 2x6 person
	Counters		30m2 admin office, 6 counters of 15m2 each, safe 100m2, safe room for 10 people, waiting hall	3 accesses, public domain, personnel, cash handling
	Museum			This function may be relocated if desired from the current separate building
SOCIAL FUNCTIONS				
	Restaurant		500 seats	Buffet
	VIP Restaurant		60 seats	Table service
	Kitchen			As Appropriate
	Recreation Room	100		Ping pong, darts, pool,
	The Club'	20		Office organising outside recreation activities
	External Recreation Space			Undetermined
	Lounge			180 spaces
	Exhibition Space	300		
	Coffee Bar			30 seats + standing
	Library	500		
	Legal Library	50		
	Innovation Lab	50		
	Changing / Showers			Local or centralised?
	Medical Facilities	150		including Lactation room with 5 relaxation seats
SERVICE FUNCTIONS				
	General facilities and circulation			Halls, stairs, lifts, wcs, service risers etc: 1.3-1.5 net to gross multiplication factor, as a guide
	General Storage Rooms	2000		Office furniture, building materials, machines, cleaning
	Central Archives			4500lm of shelving
	Art Store	150		
	Security	40		
	IT	400		200 +200 stock
	Server Rooms	10m2 each		Per floor
	Data Centres	100m2 each		Per floor
	Refuse			Undetermined
	Delivery zone			Different Deliveries /Refuse/Medical staff
	Print Shop	450		
	Workshop	450		
	Car parking			150 cars 20 motorbikes
	Bike Parking			as Brussels standards
	Building Services			consider vertical risers, horizontal distribution, type of service installations, localised/centralised?
RENTAL		7000		Rental offices 6000m2, gym 500m2, nursery 500m2,

*Remaining Area*  
**55545m2**

*Given Area Total* **35455m2**

# Designed Public Program





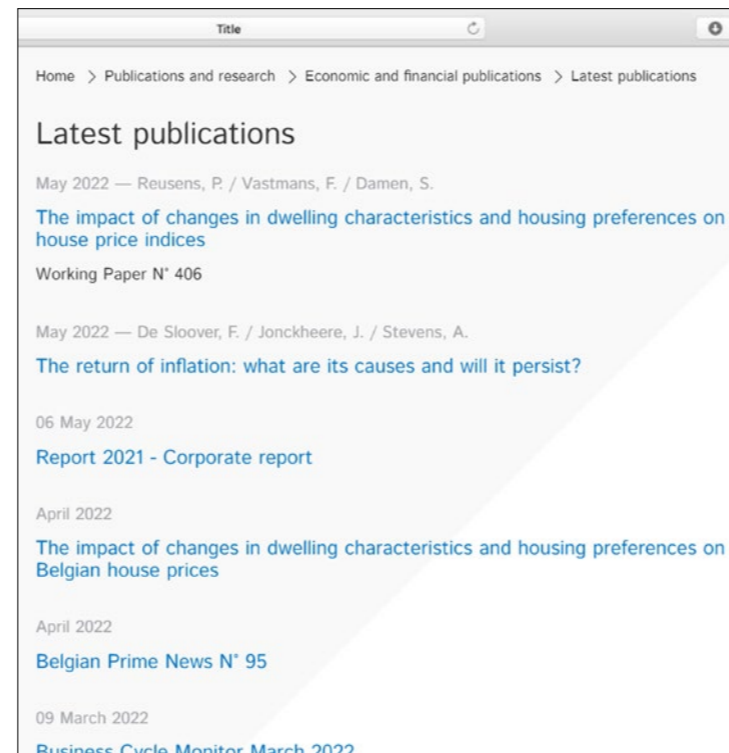
# Content

## NBB's collection

over 100,000 books &  
about 1,300 periodicals



## NBB's research

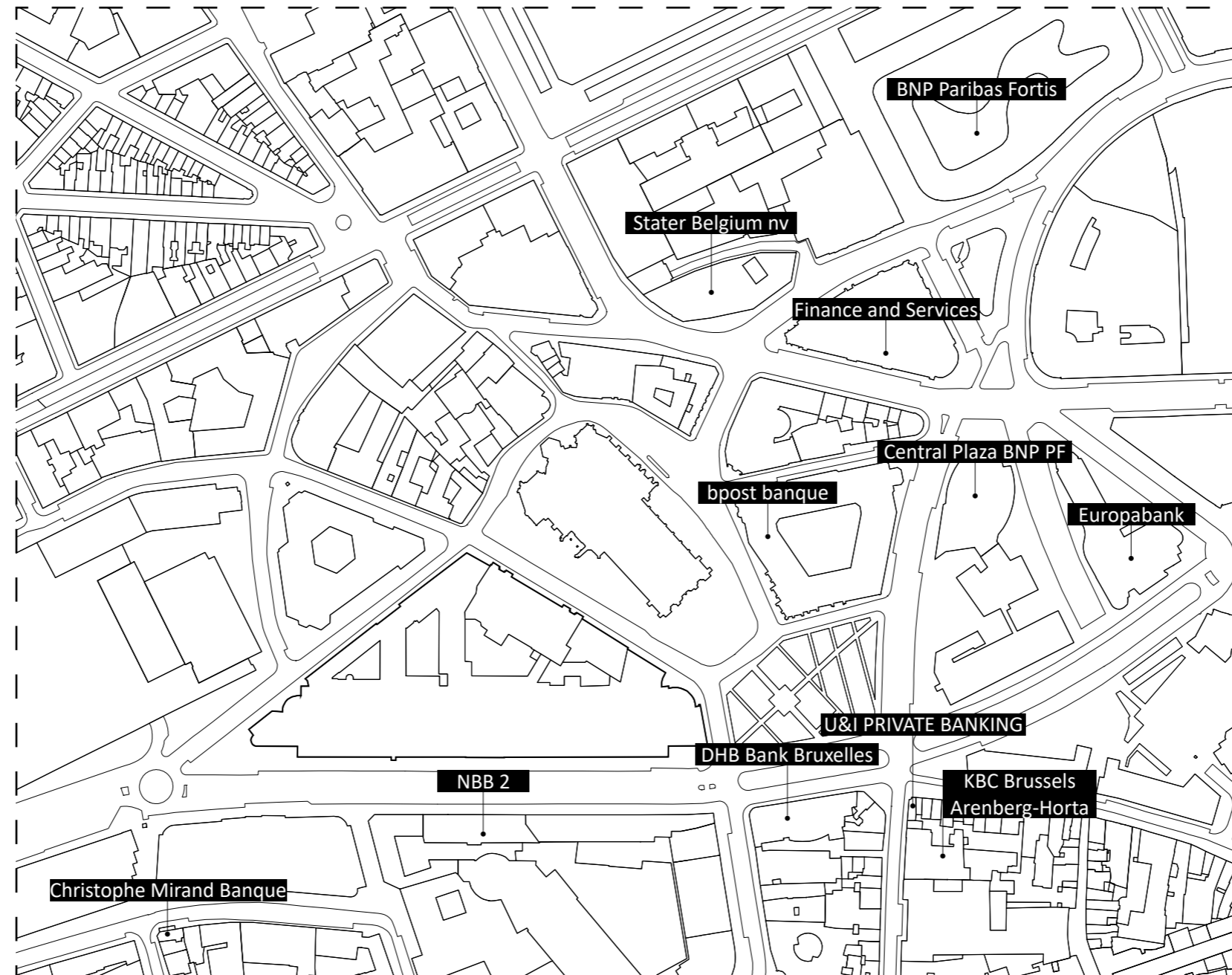


## BrusselsDonut's research



# Users

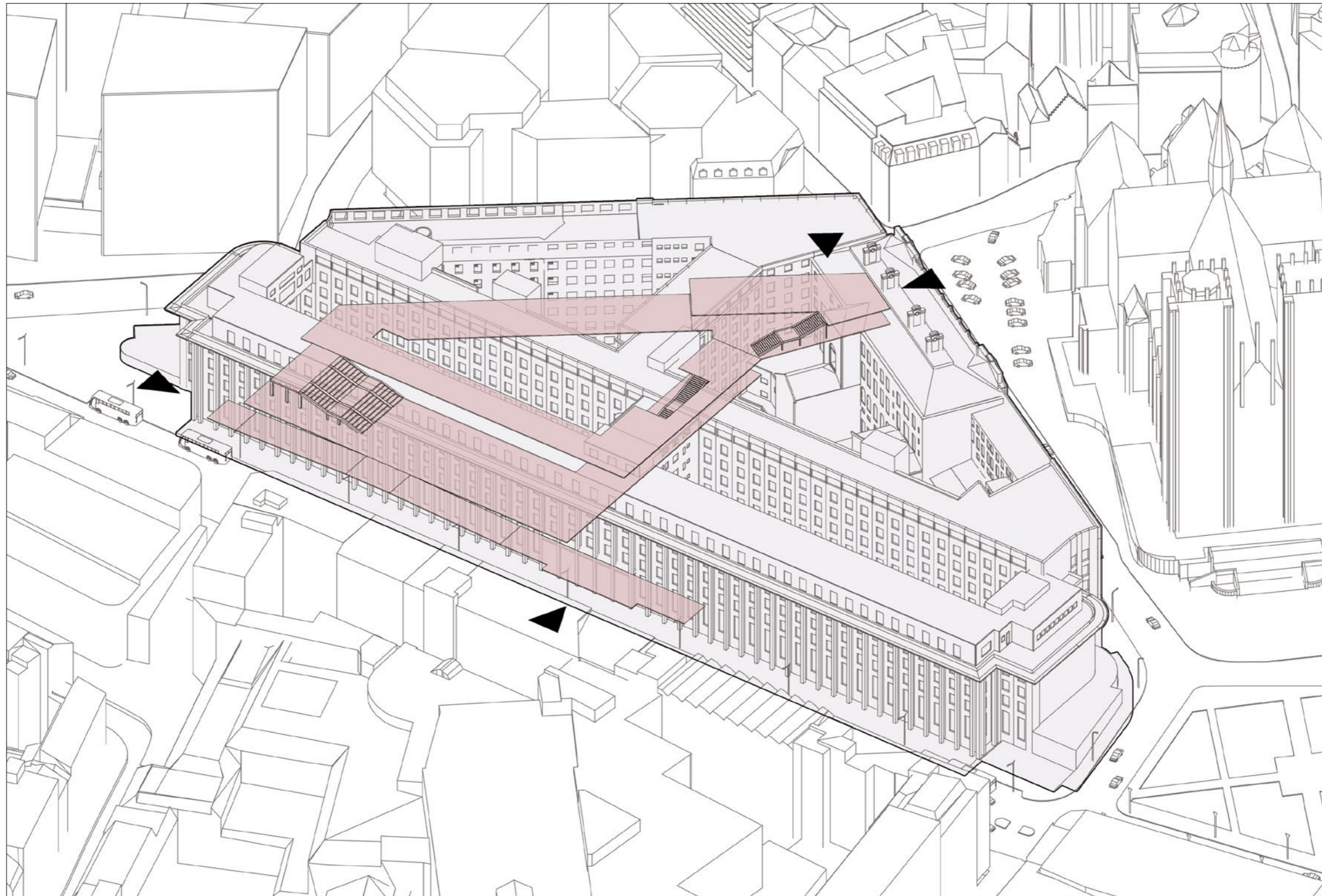
*Potential users: a large number of bank practitioners around*



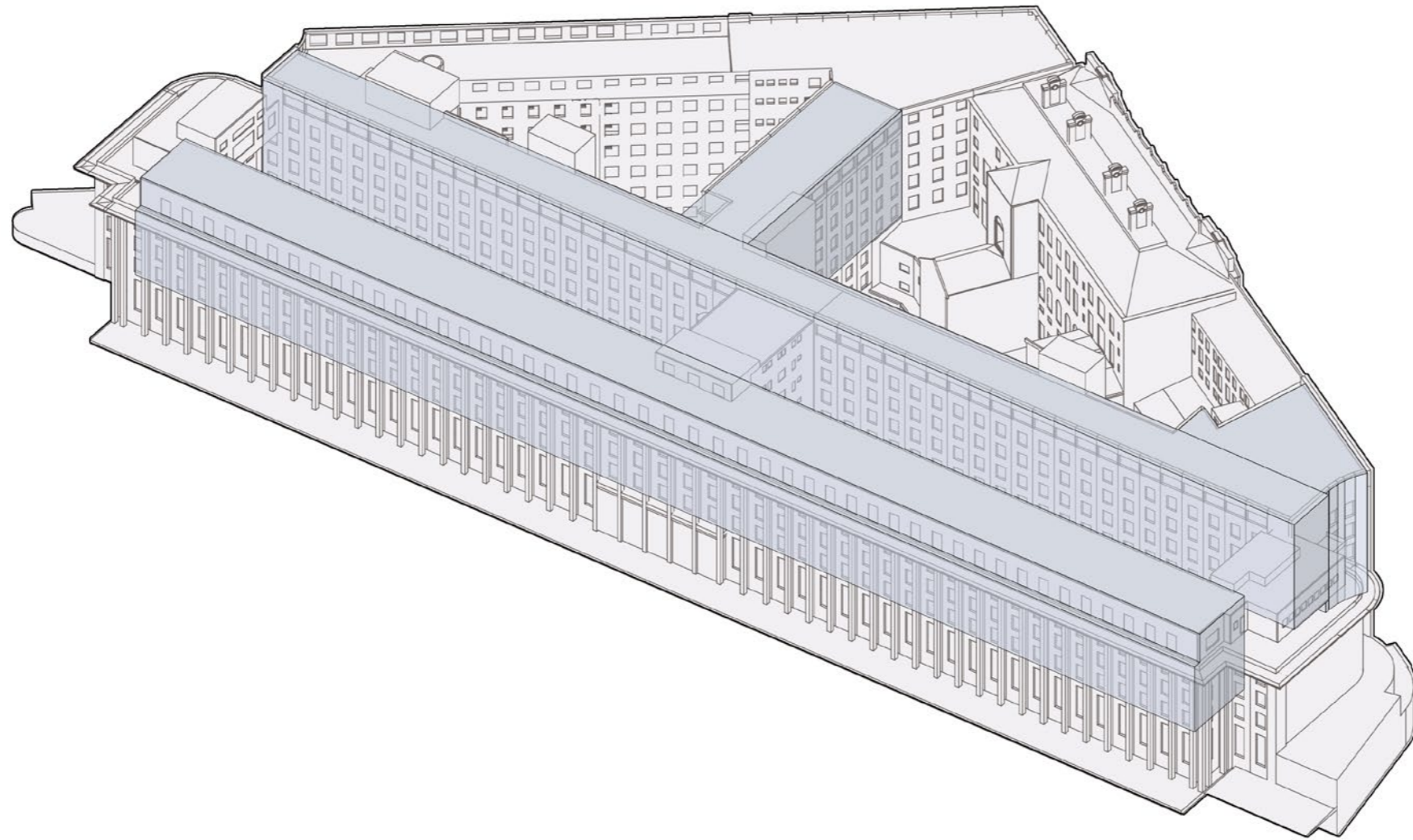
Banks near NBB



# *Financial Culture Center*

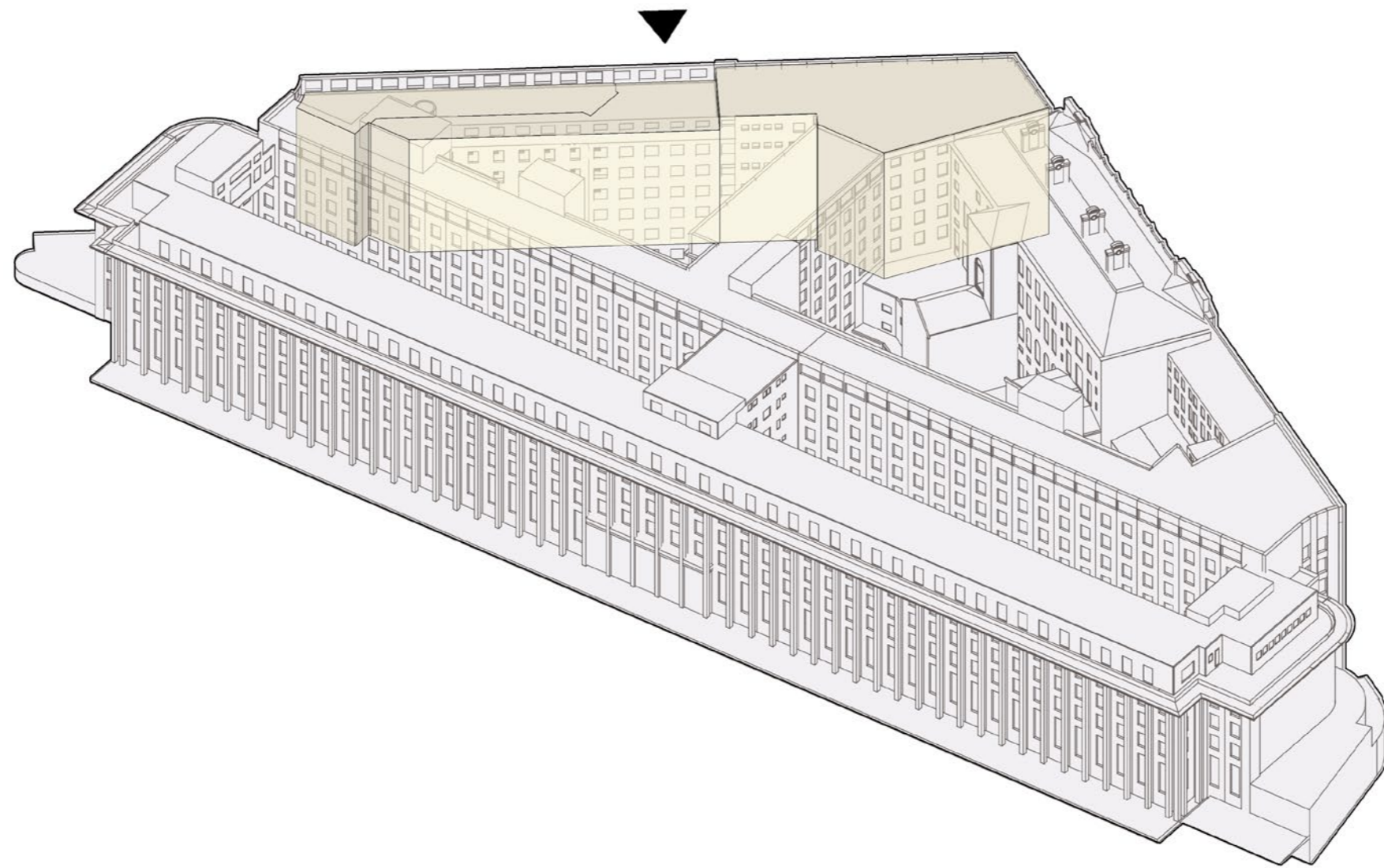


# *Bank Office*

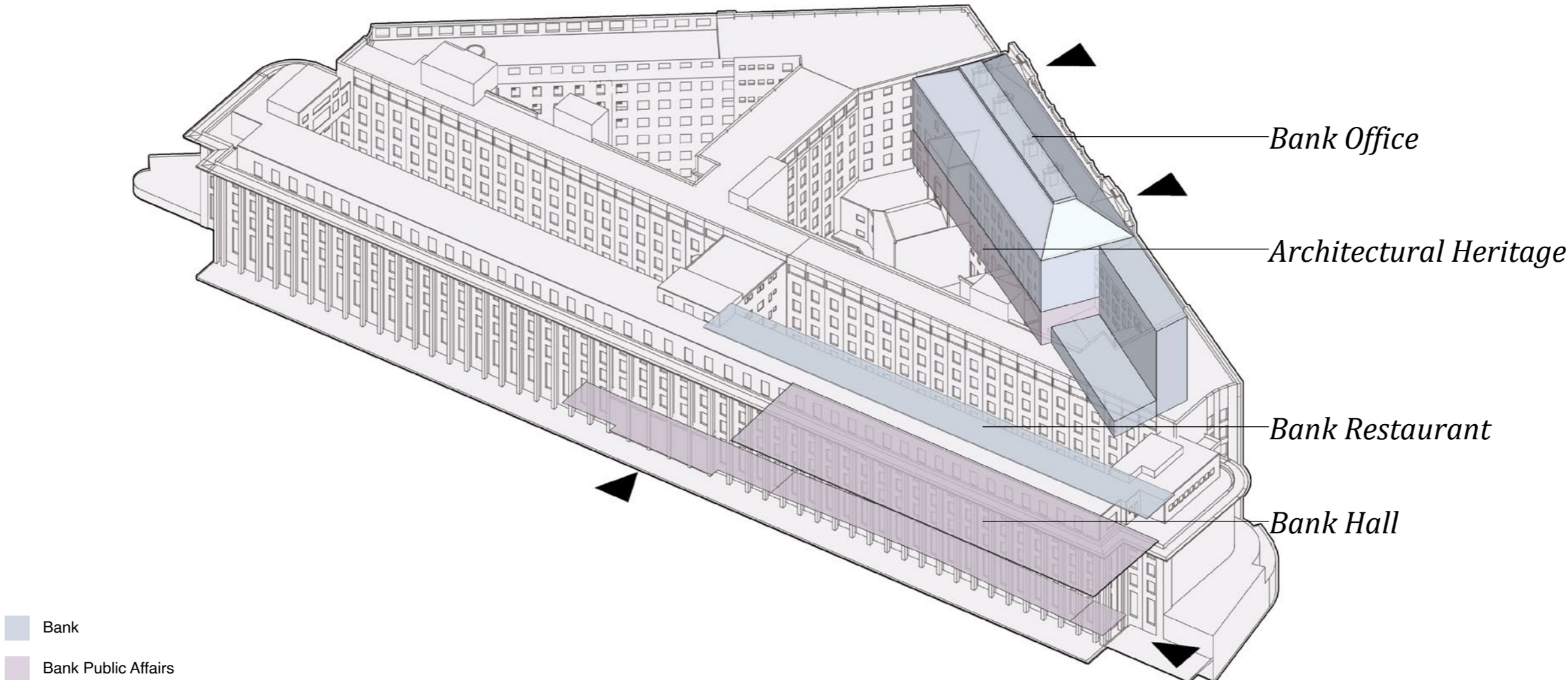




*Rental/ Flexible Office*

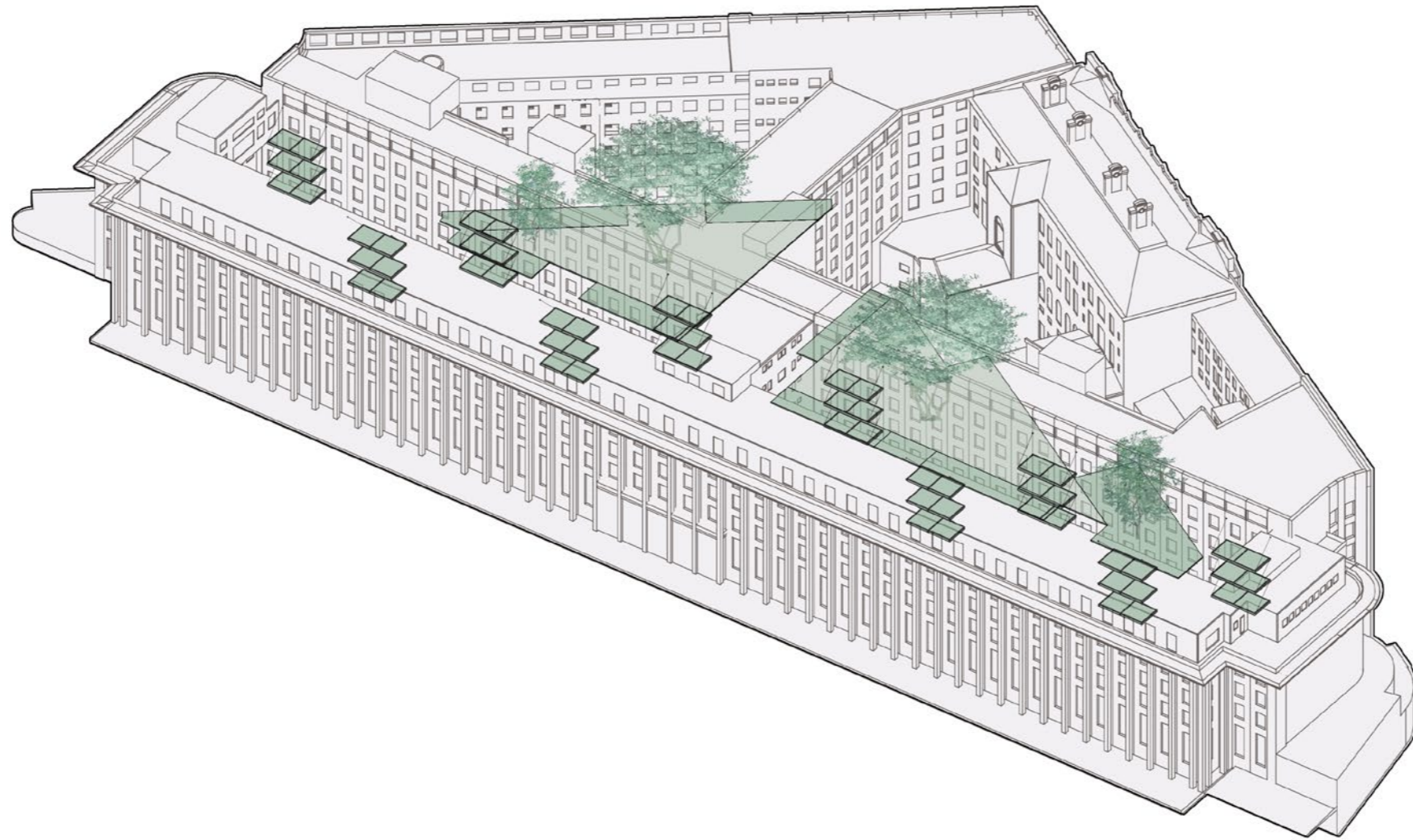


# The Governor's Hotel & Bank Hall

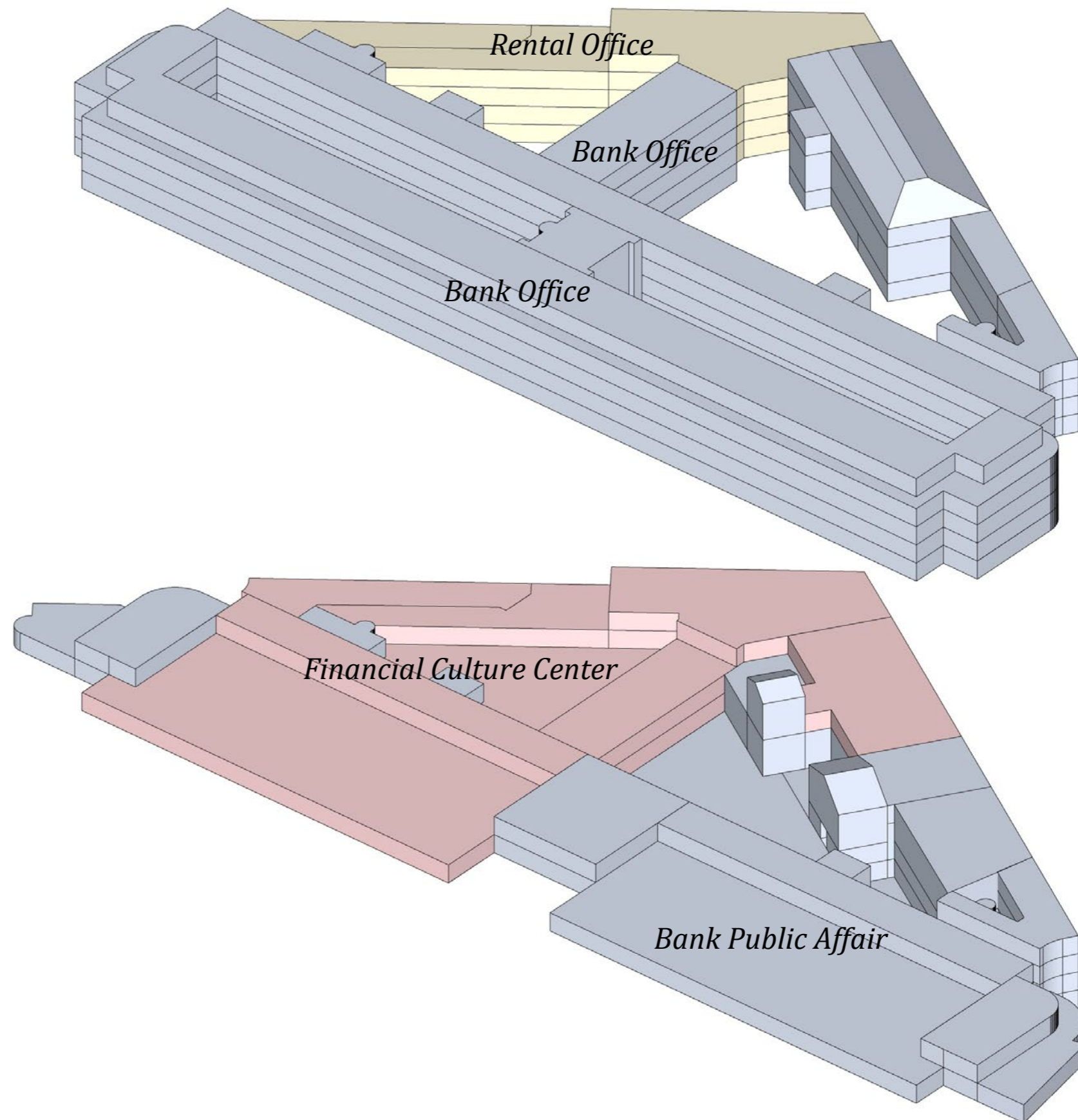




# *Courtyard & Balcony*



# Overall program



Bank  
45%  
37500m<sup>2</sup>

Public  
22%  
18000m<sup>2</sup>

Rental  
8%  
7000m<sup>2</sup>

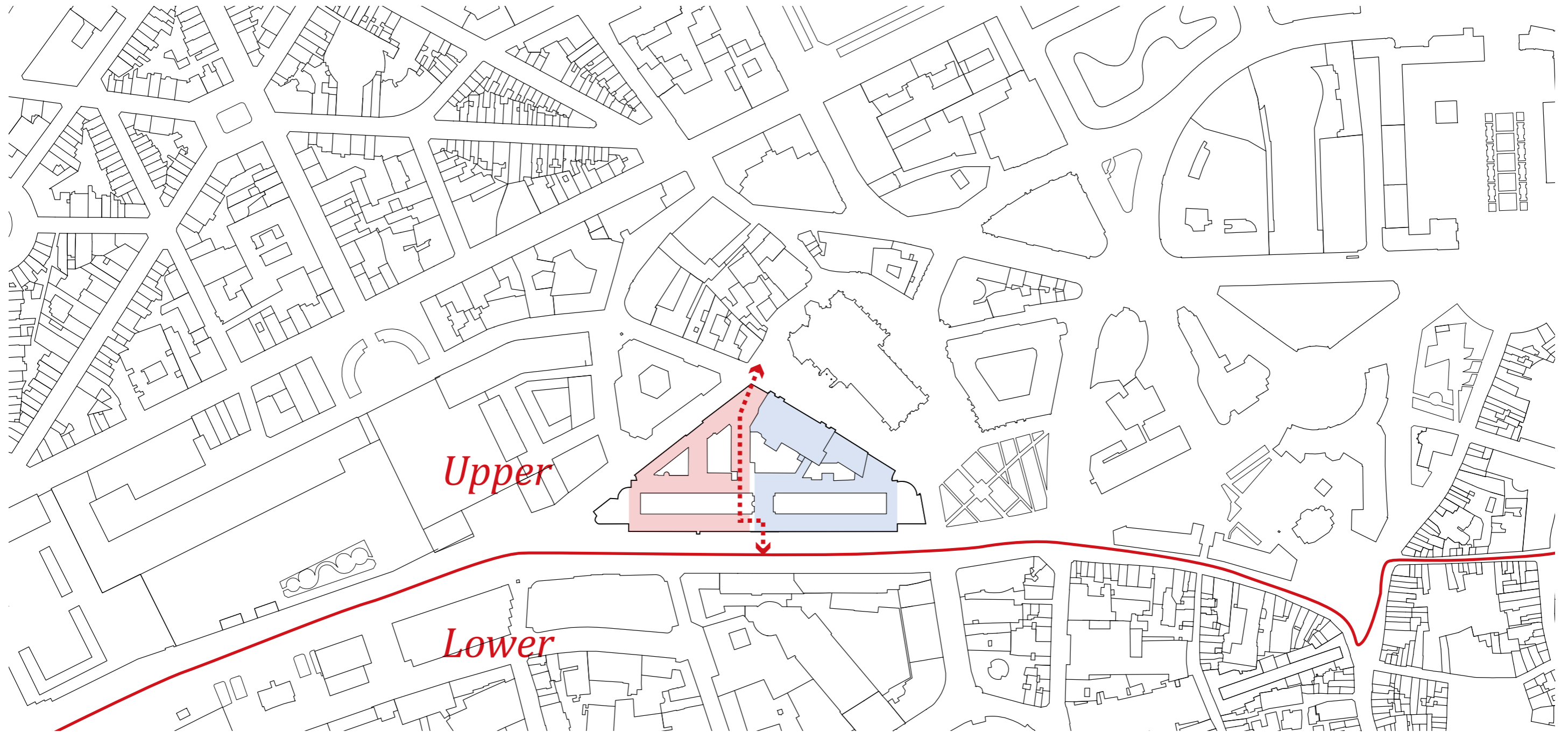
Service  
& circulation  
25%  
20800m<sup>2</sup>



## *New Circulation*

# Connect upper and lower cities

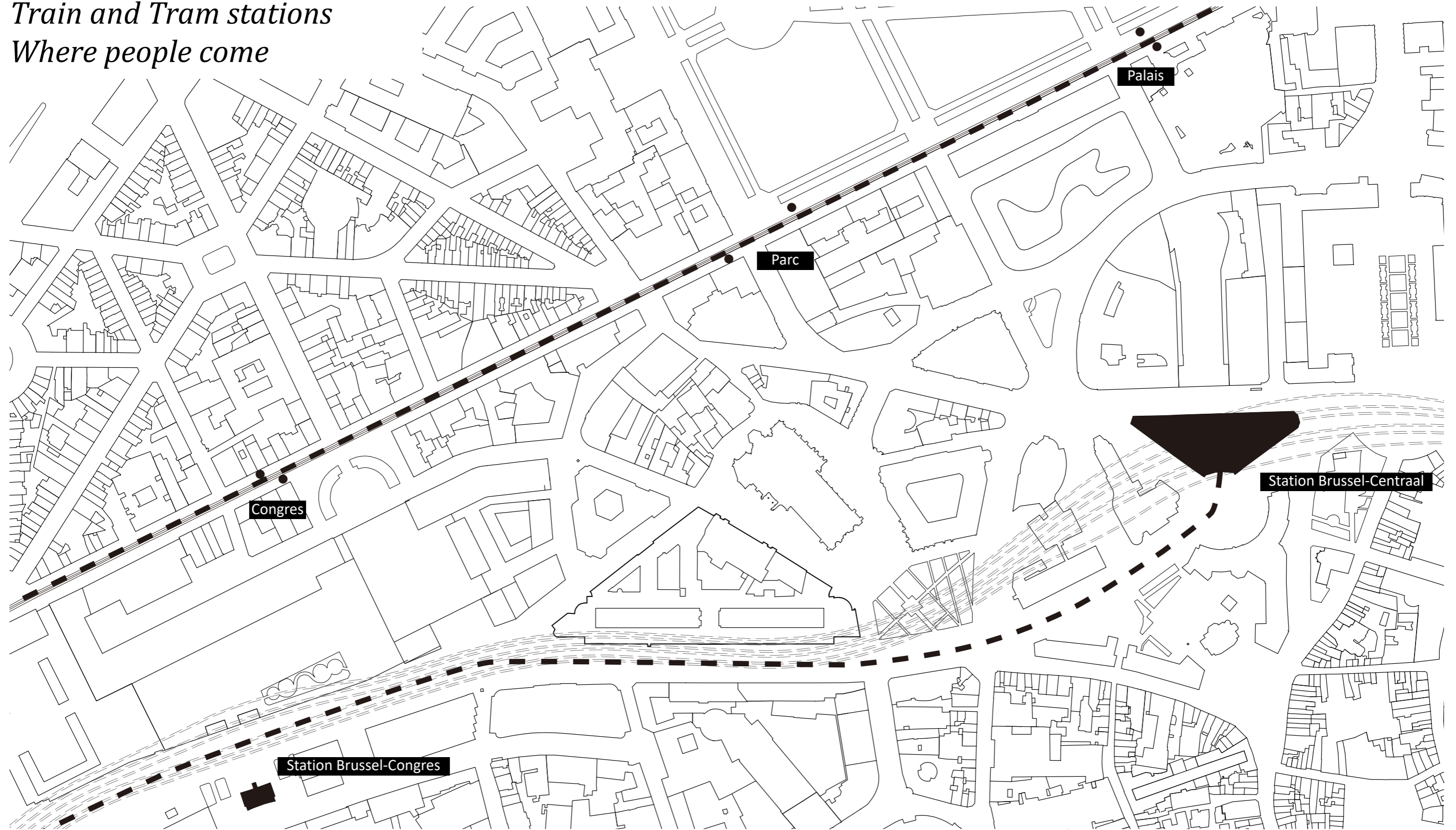
*public route passing north half of the ground floor*



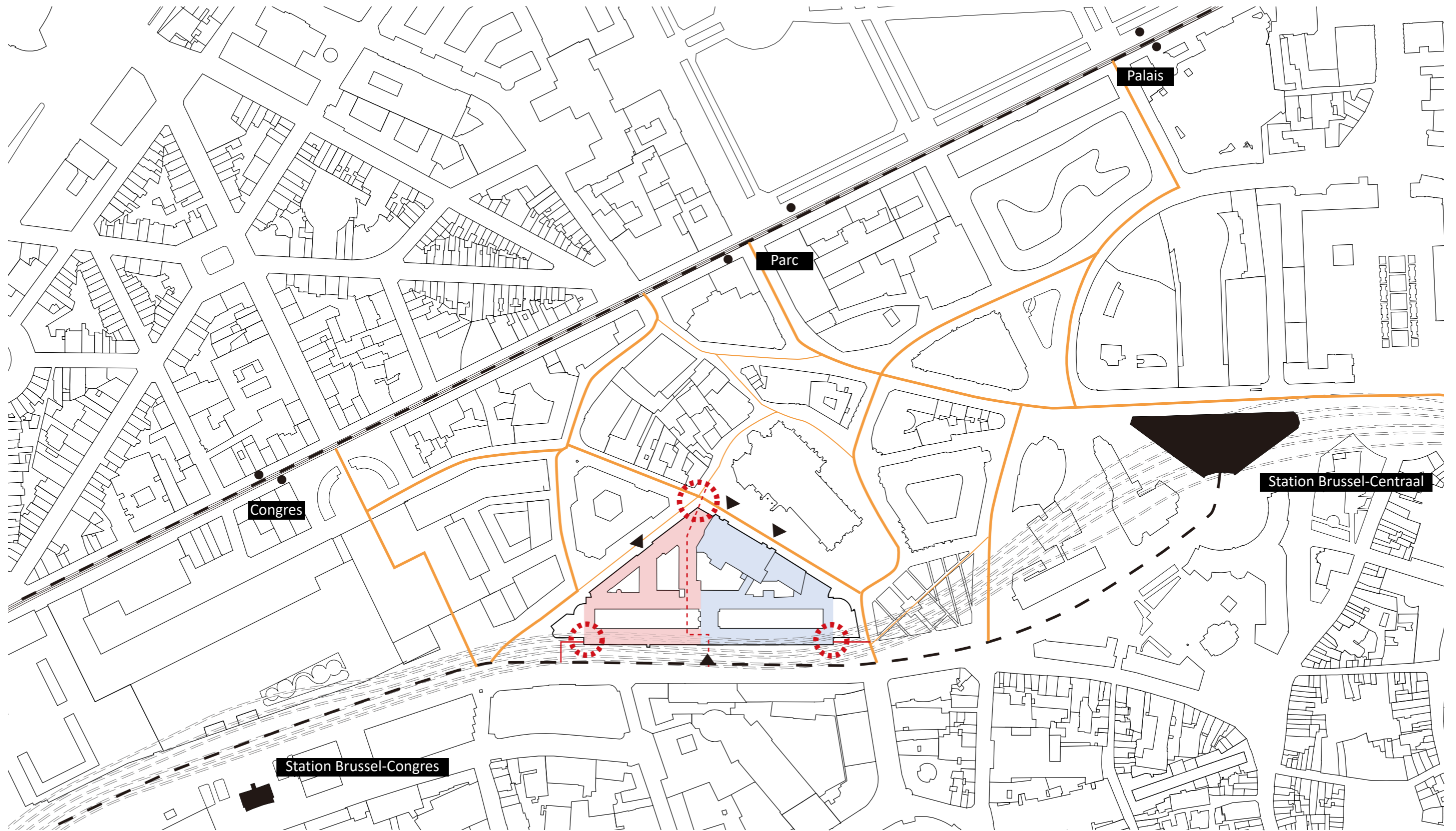


# Traffic

*Train and Tram stations*  
*Where people come*

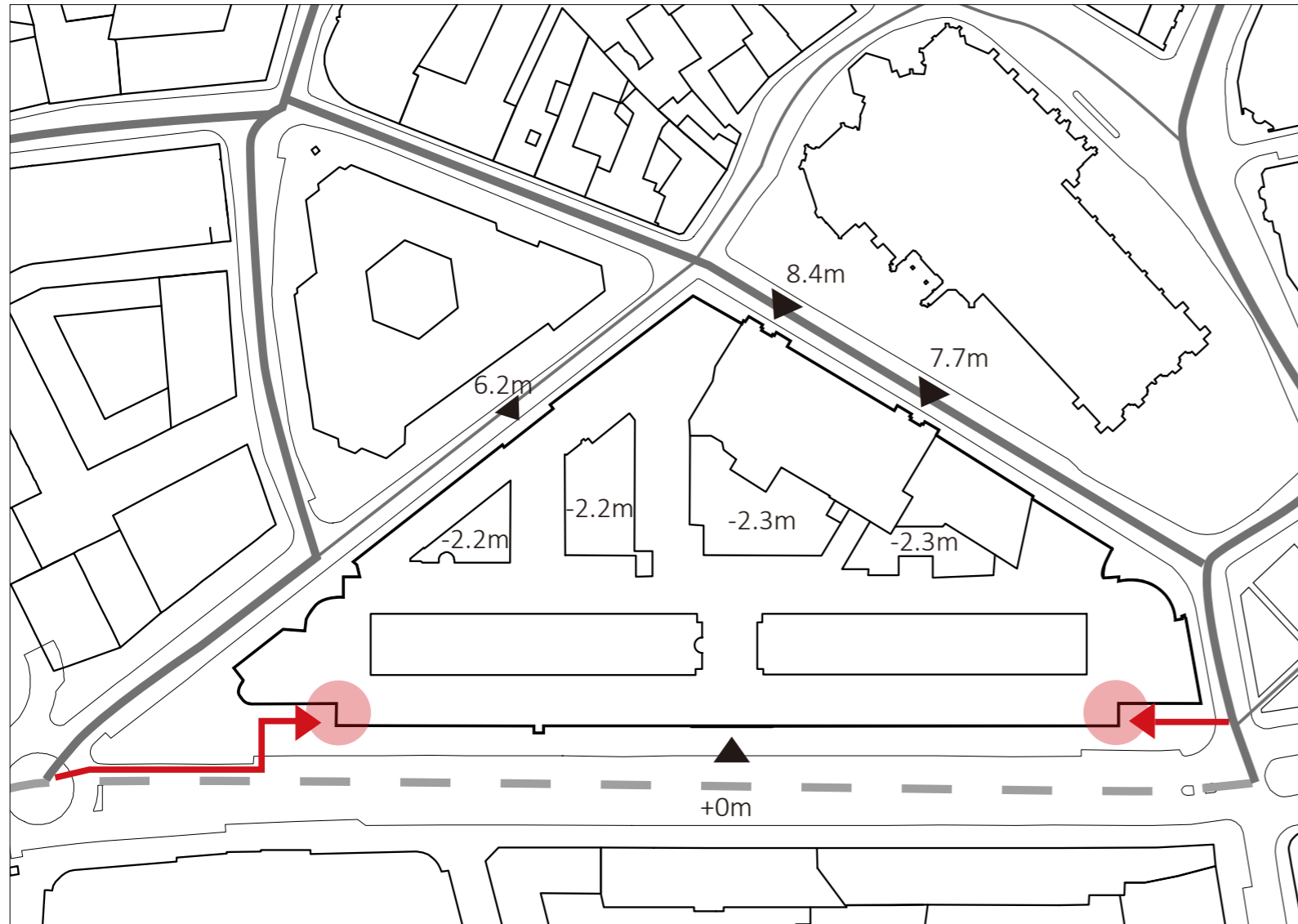


# New Entrances

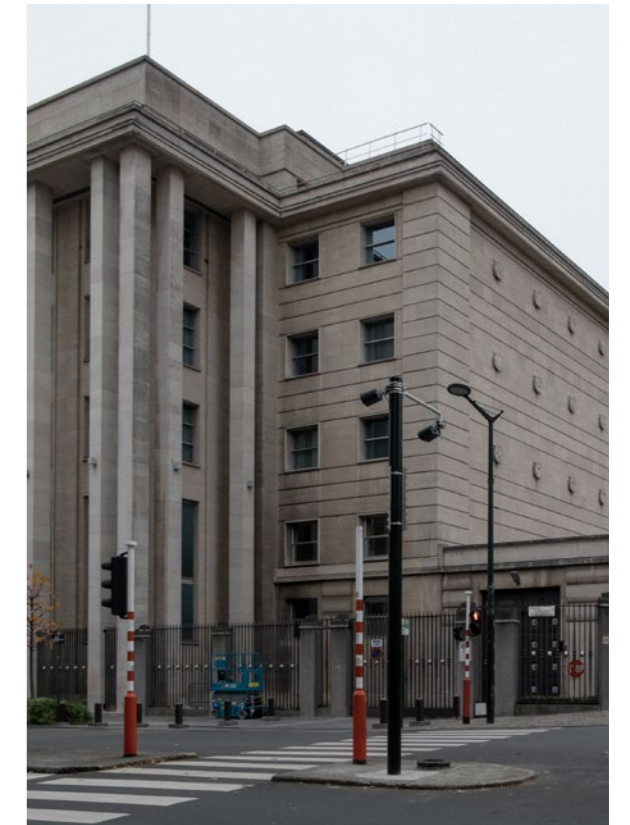




# New Entrances



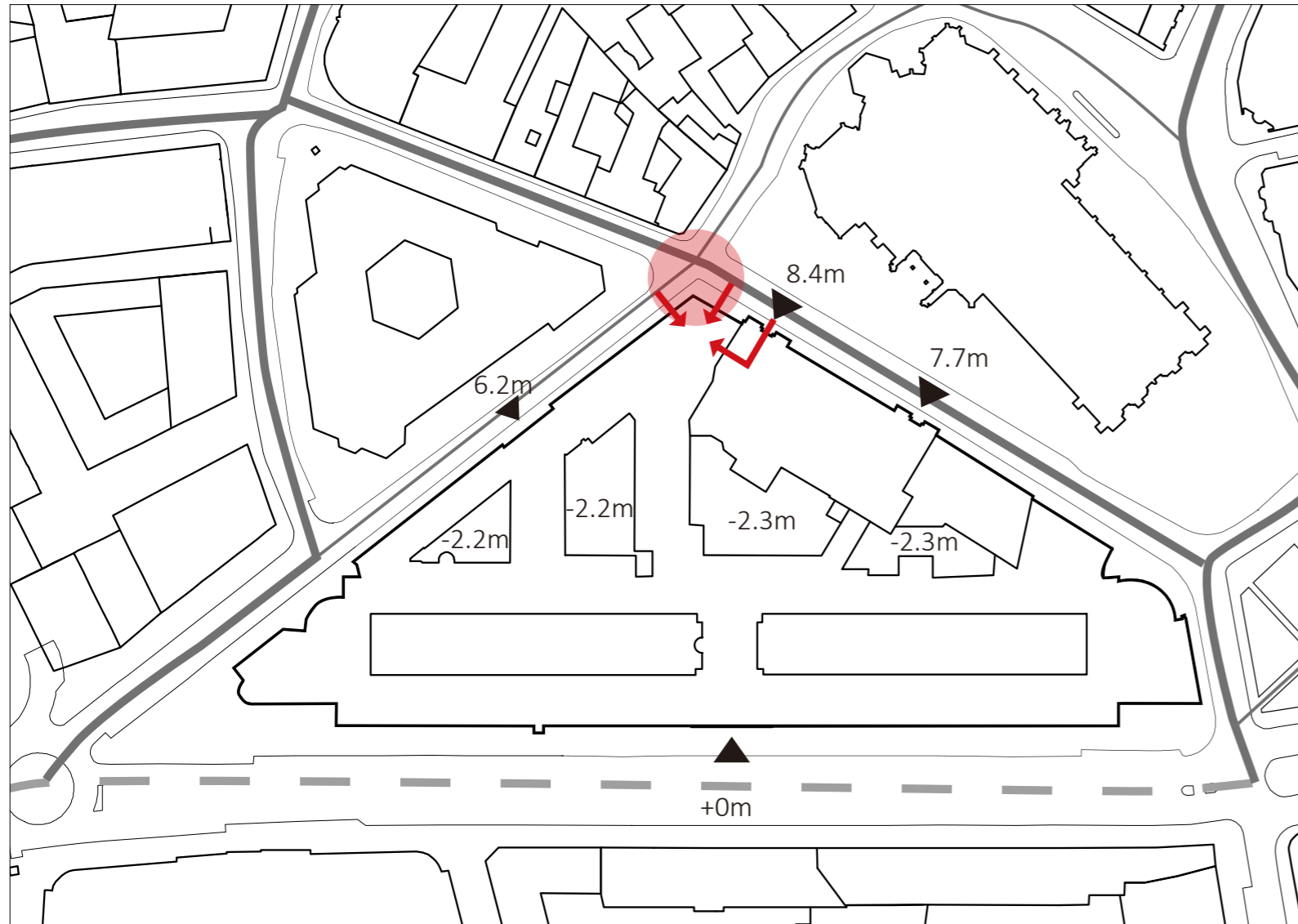
northeast corner, 2021



southwest corner, 2021



# New Entrances



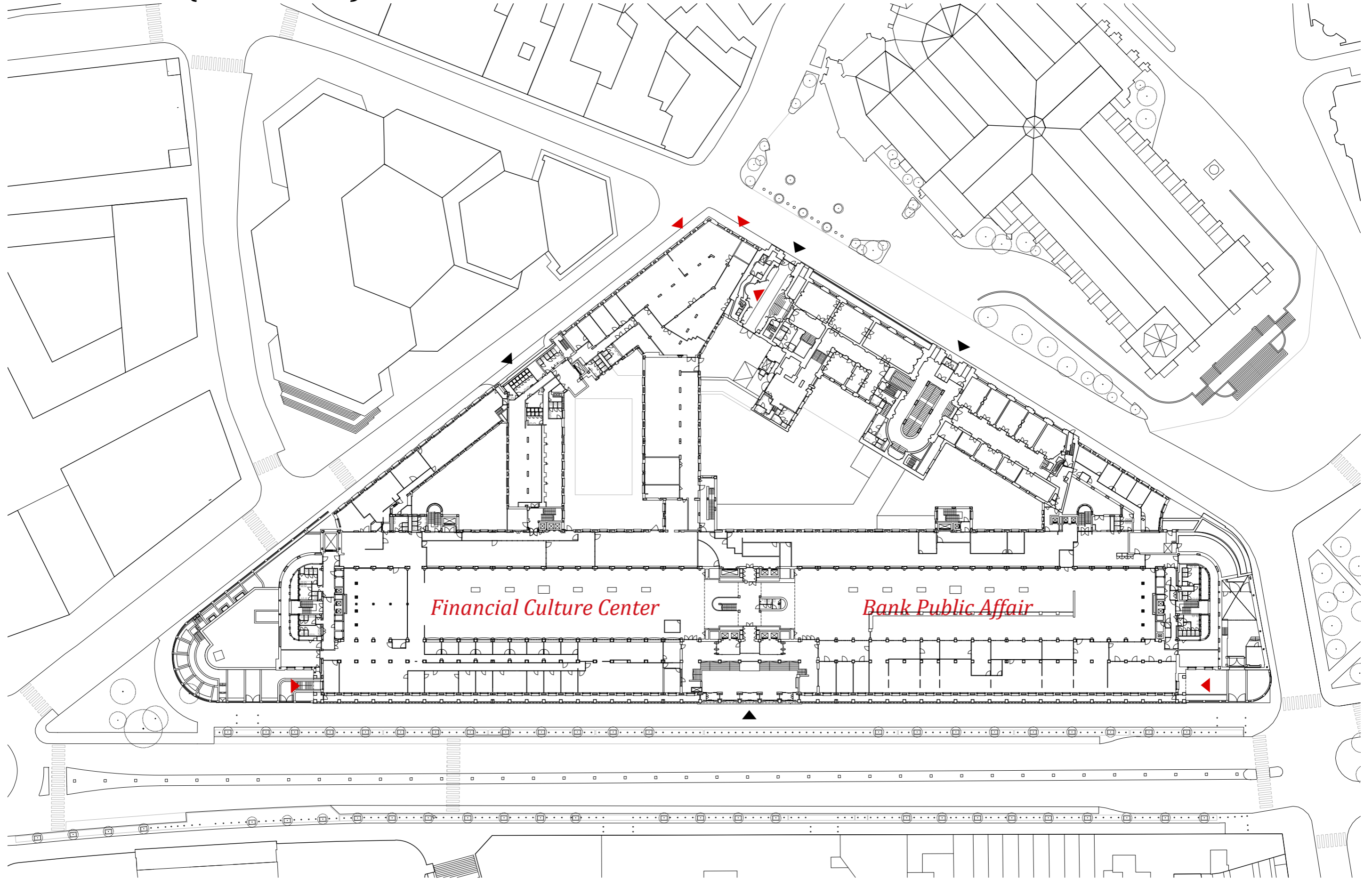
southeast corner, 2021



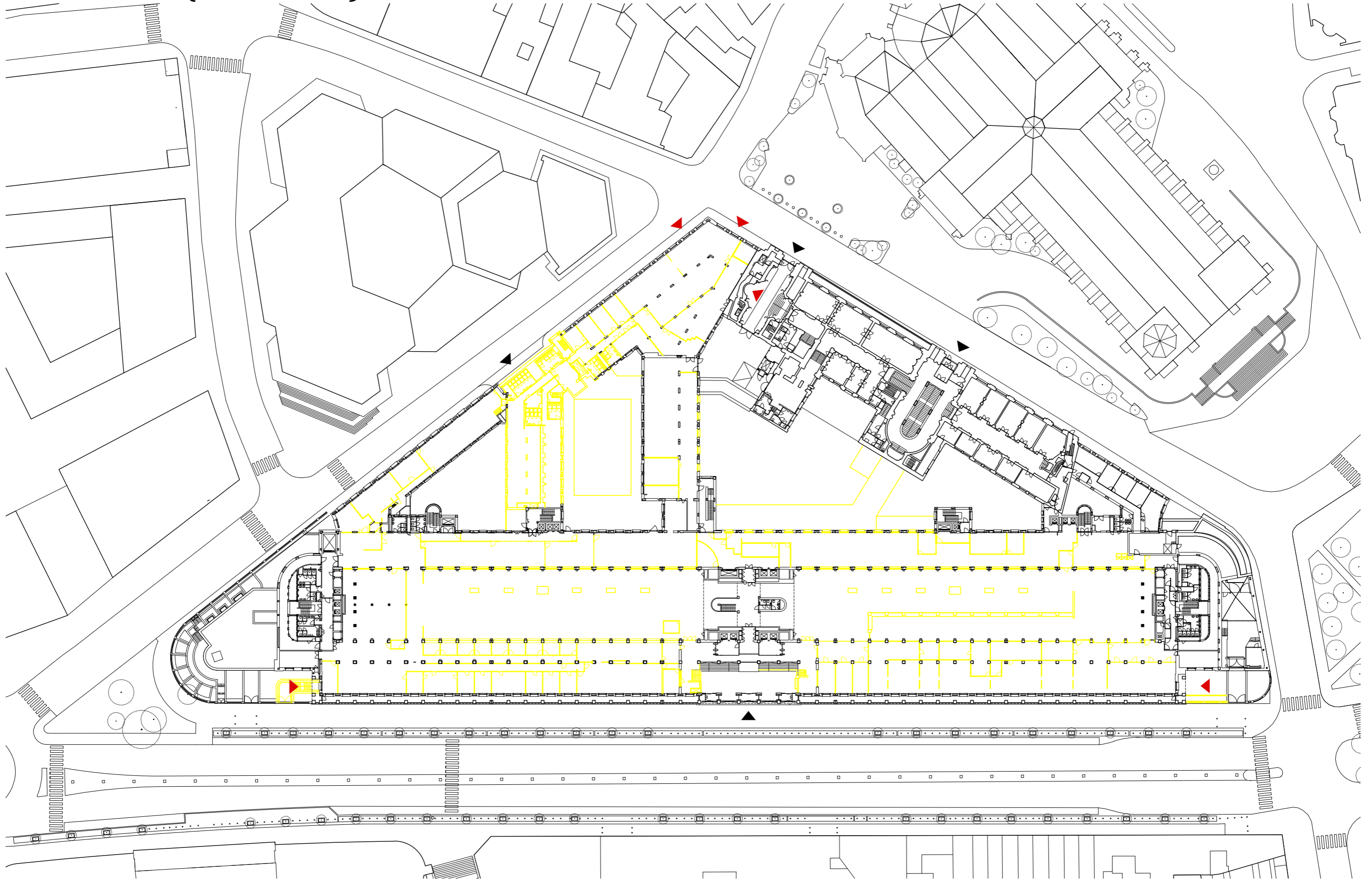
Hotel van de Gouverneur entrance, image before 1920



*Current, GF(combined)*

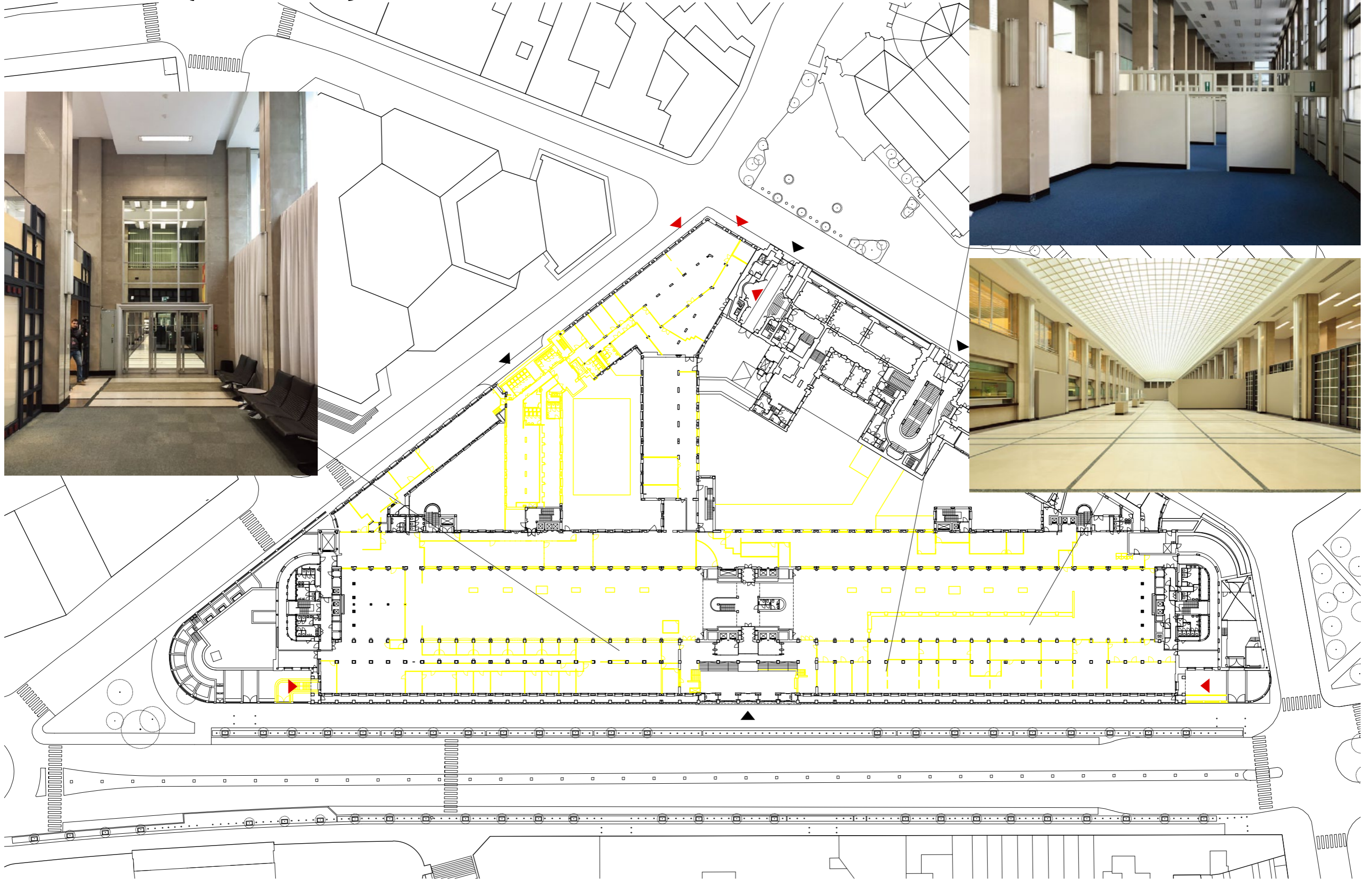


*Remove, GF(combined)*

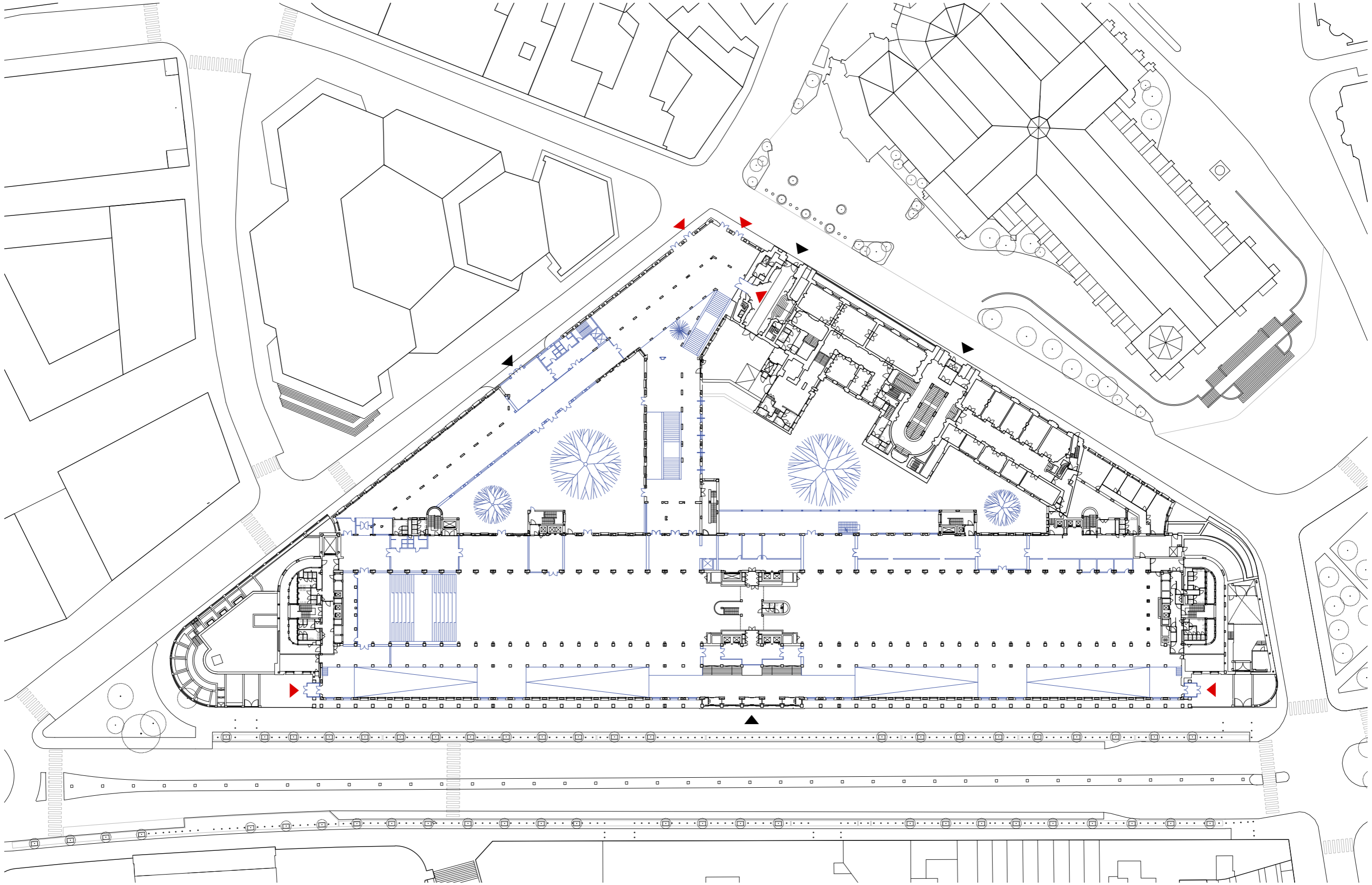




*Remove, GF(combined)*

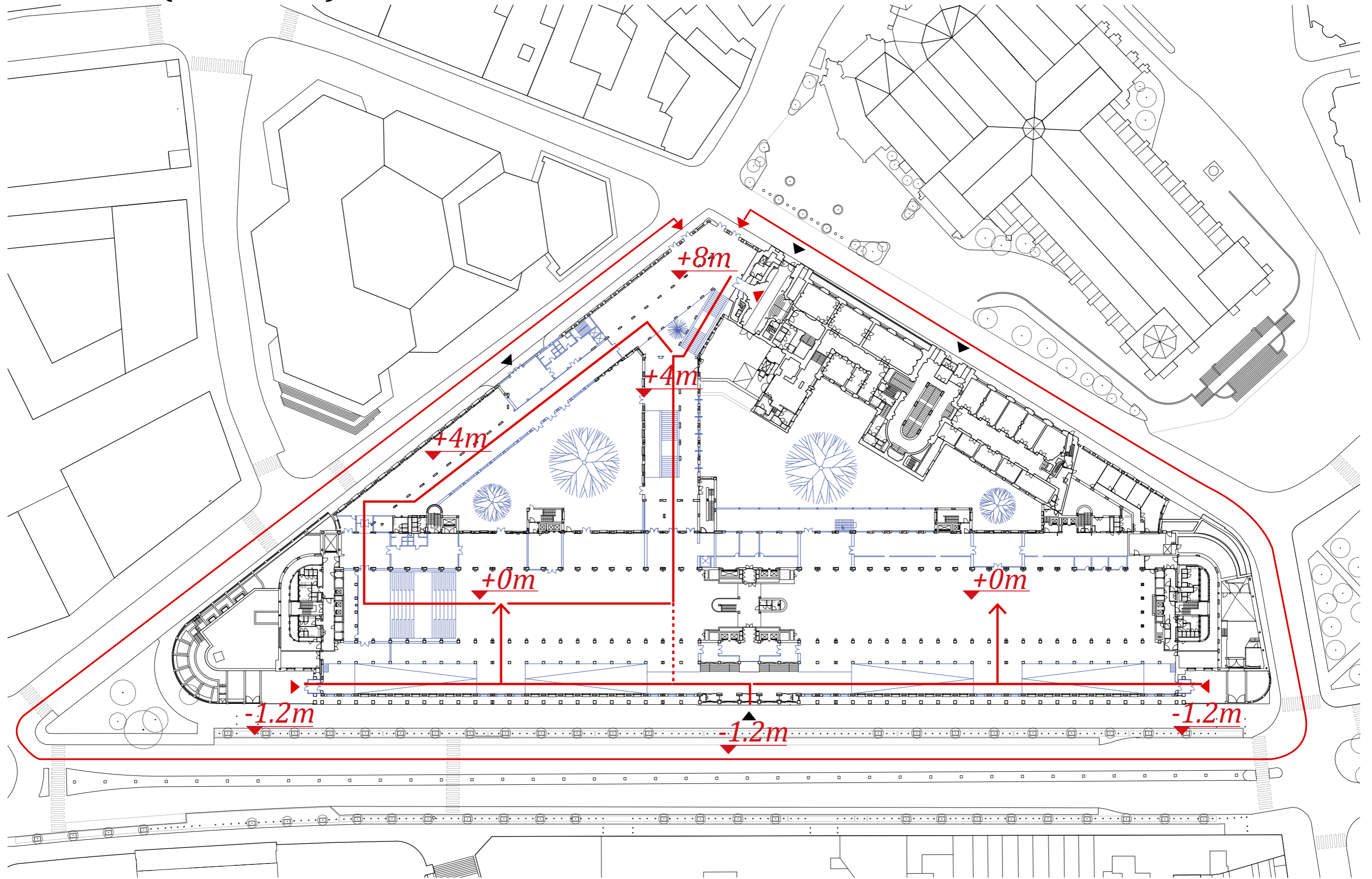


*Added, GF(combined)*



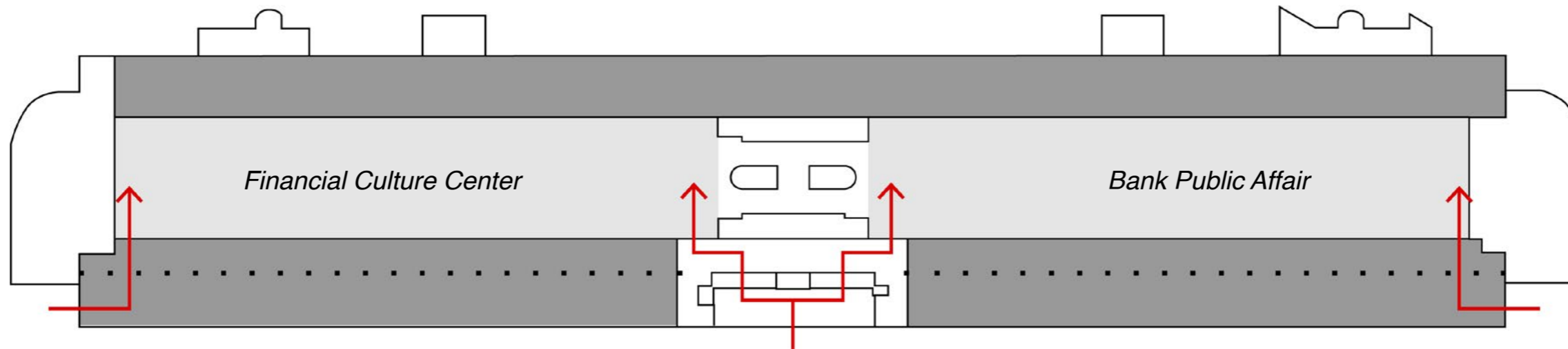


# Result, GF(combined)

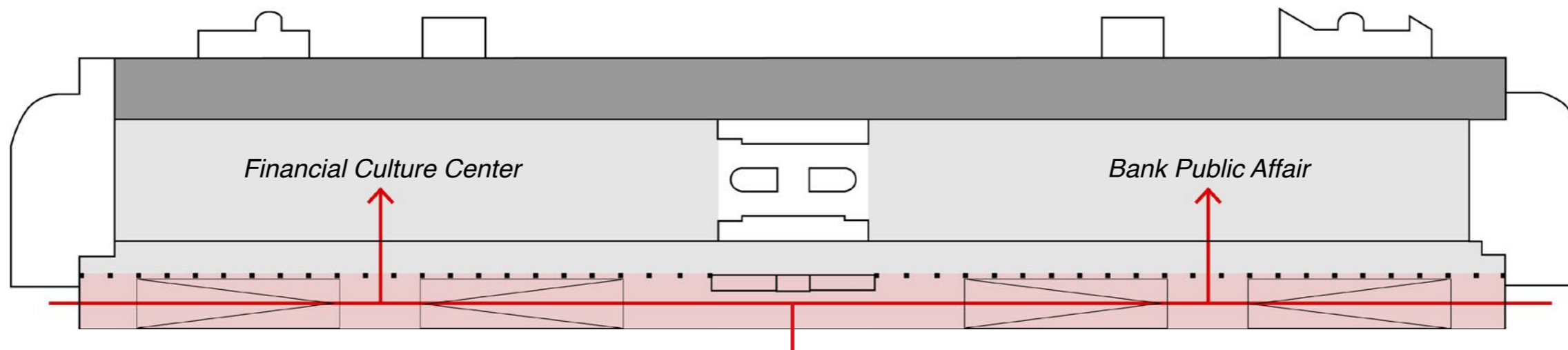


# The ramps

*Use the stairs to reach the end of the hall*



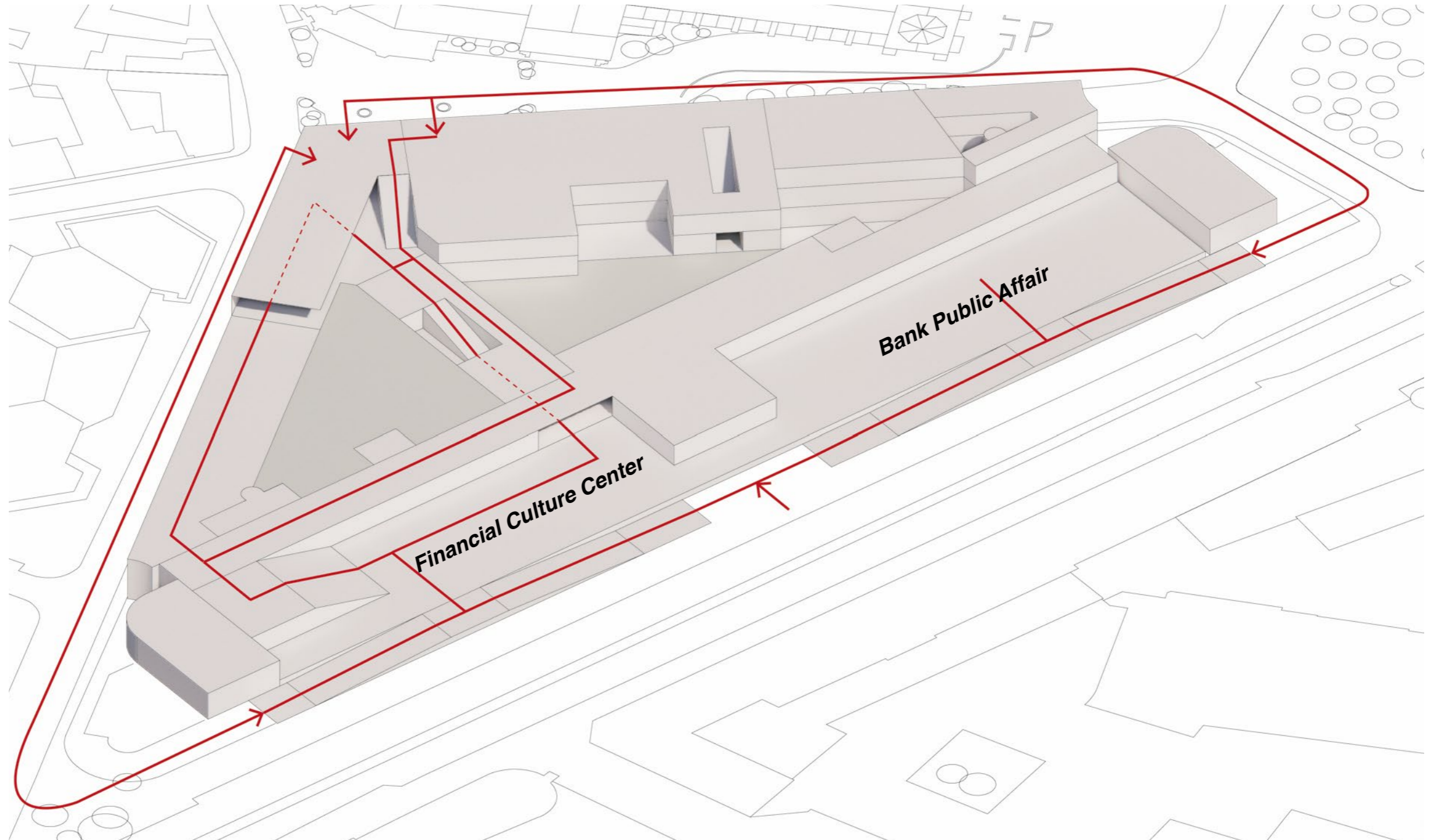
*Use the ramps to reach the middle of the hall and activate the front of the bank*



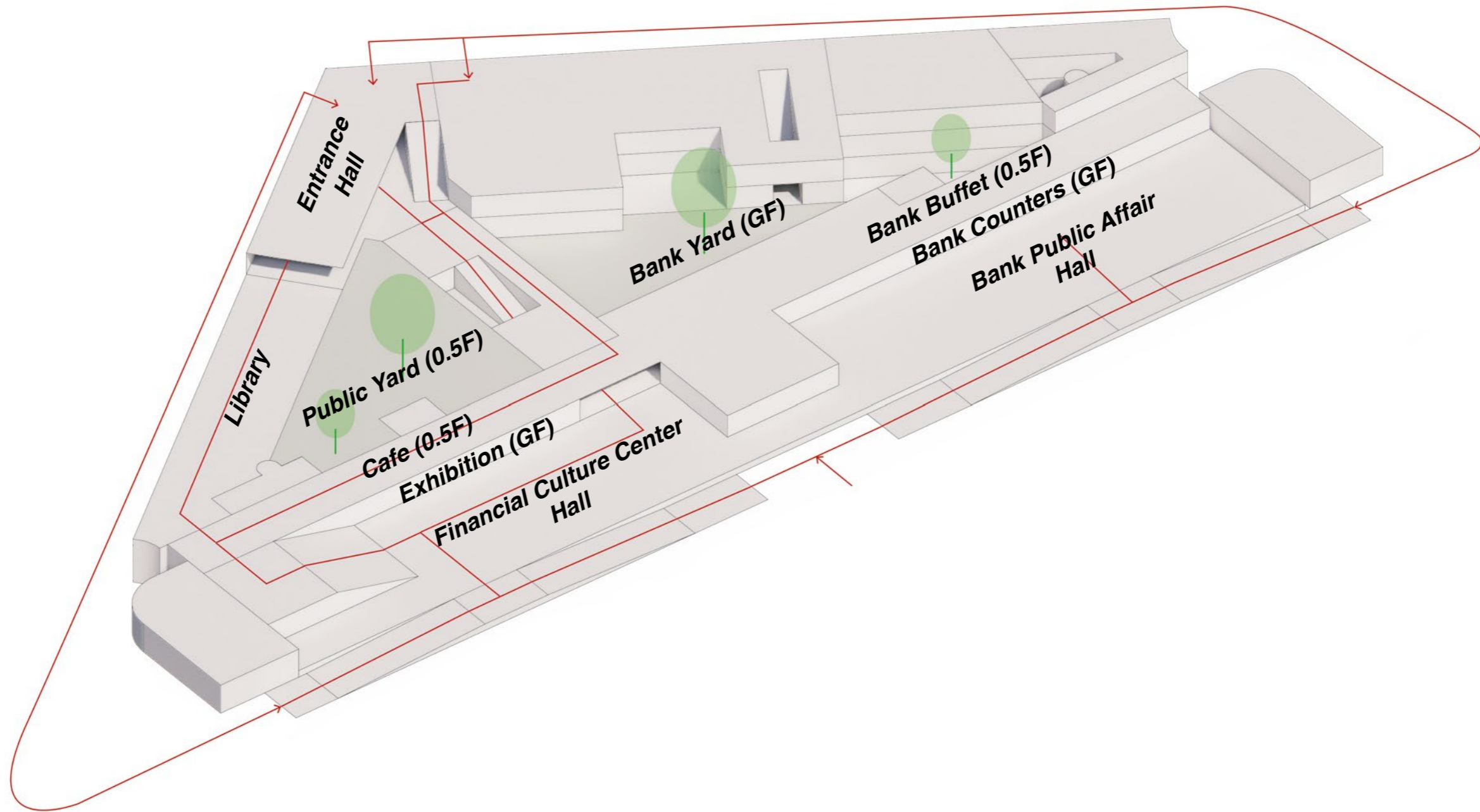


## *New circulation*

*“Public Landscape System” by adding Ramps/ Stairs/ Entrances*



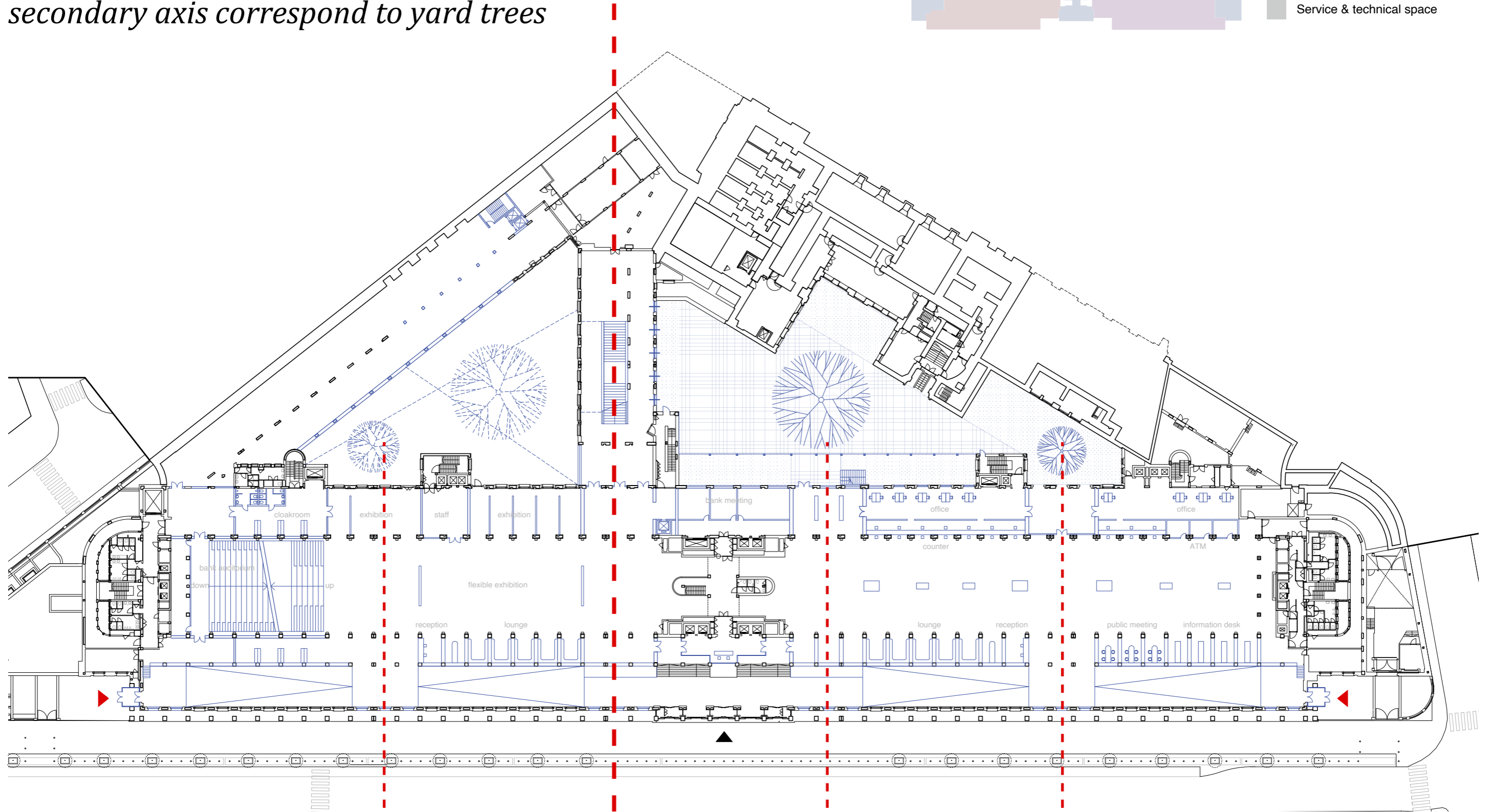
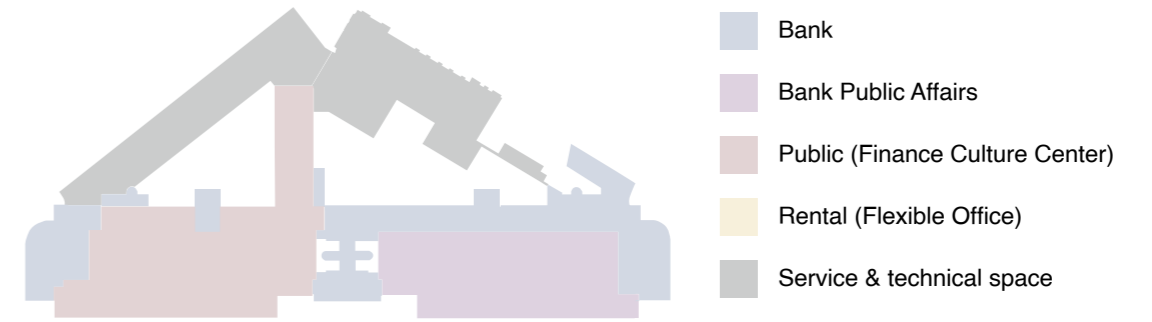
# Program





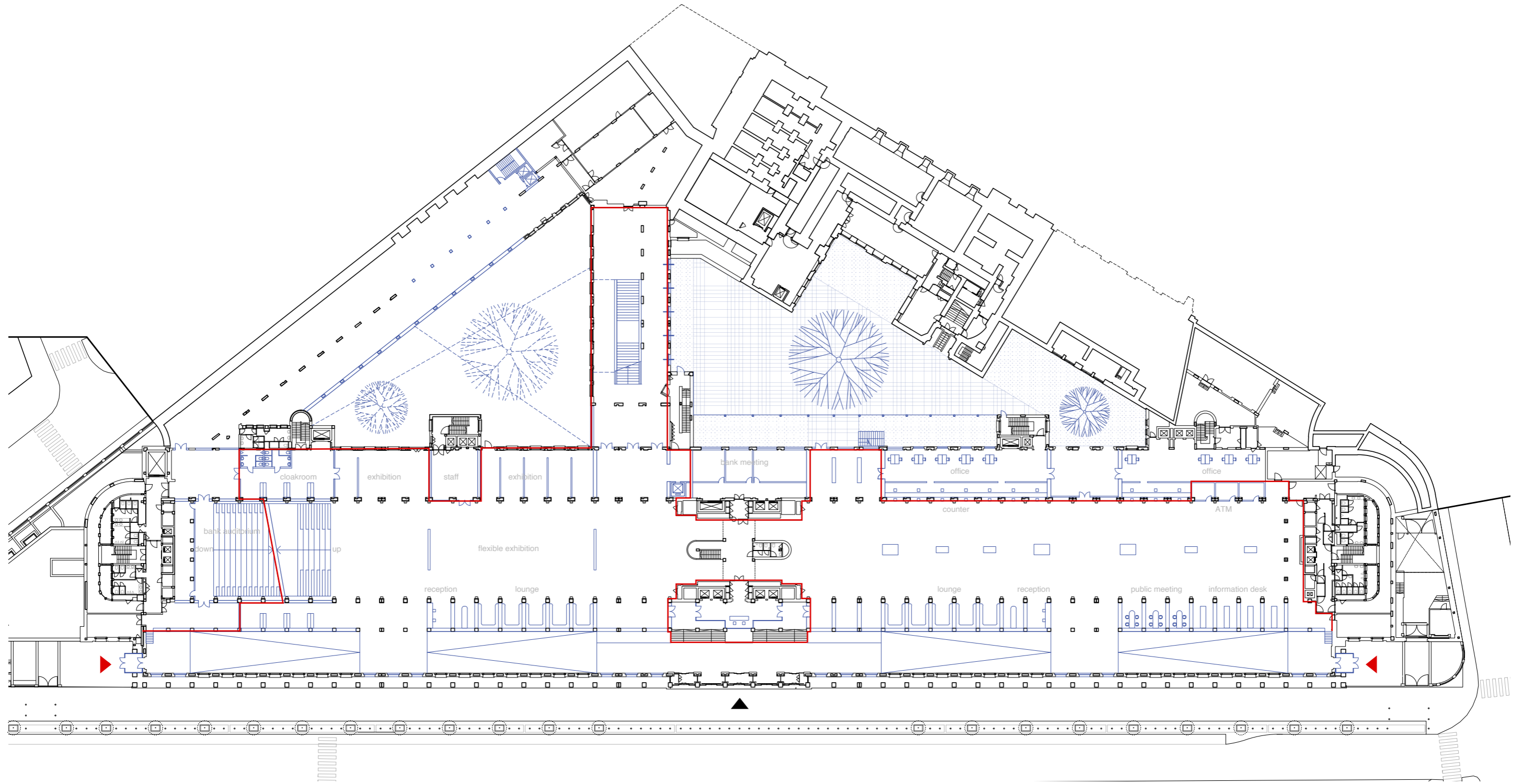
# New GF

*main axis corresponds to the staircase*  
*secondary axis correspond to yard trees*



# New GF

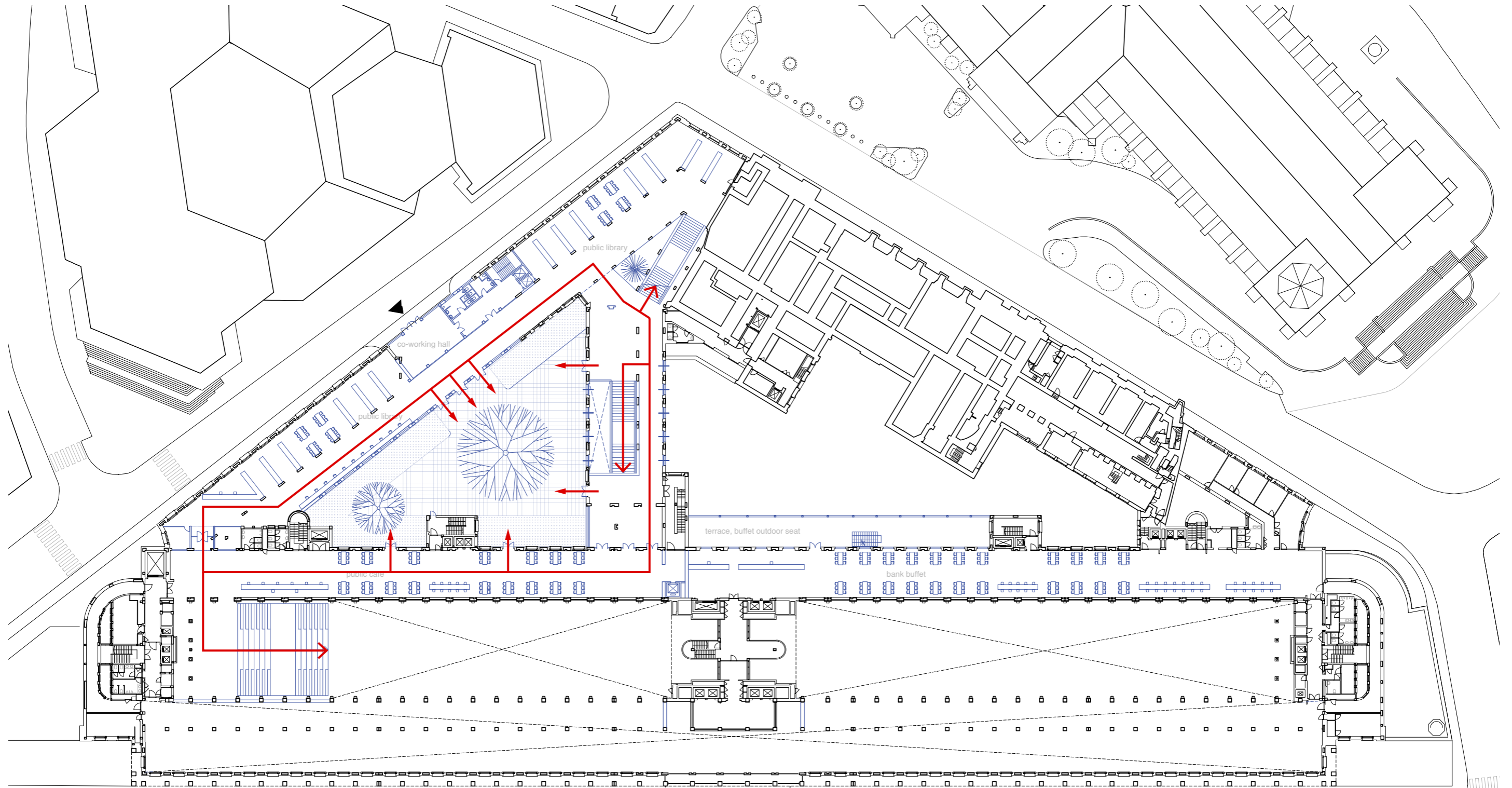
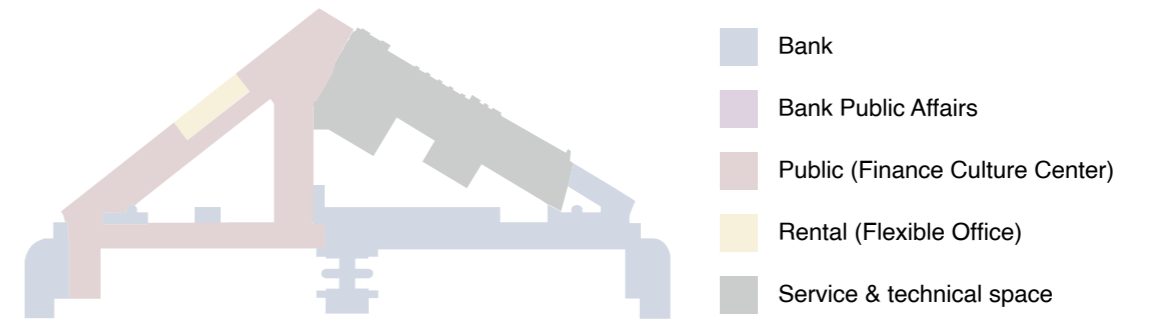
## security lines





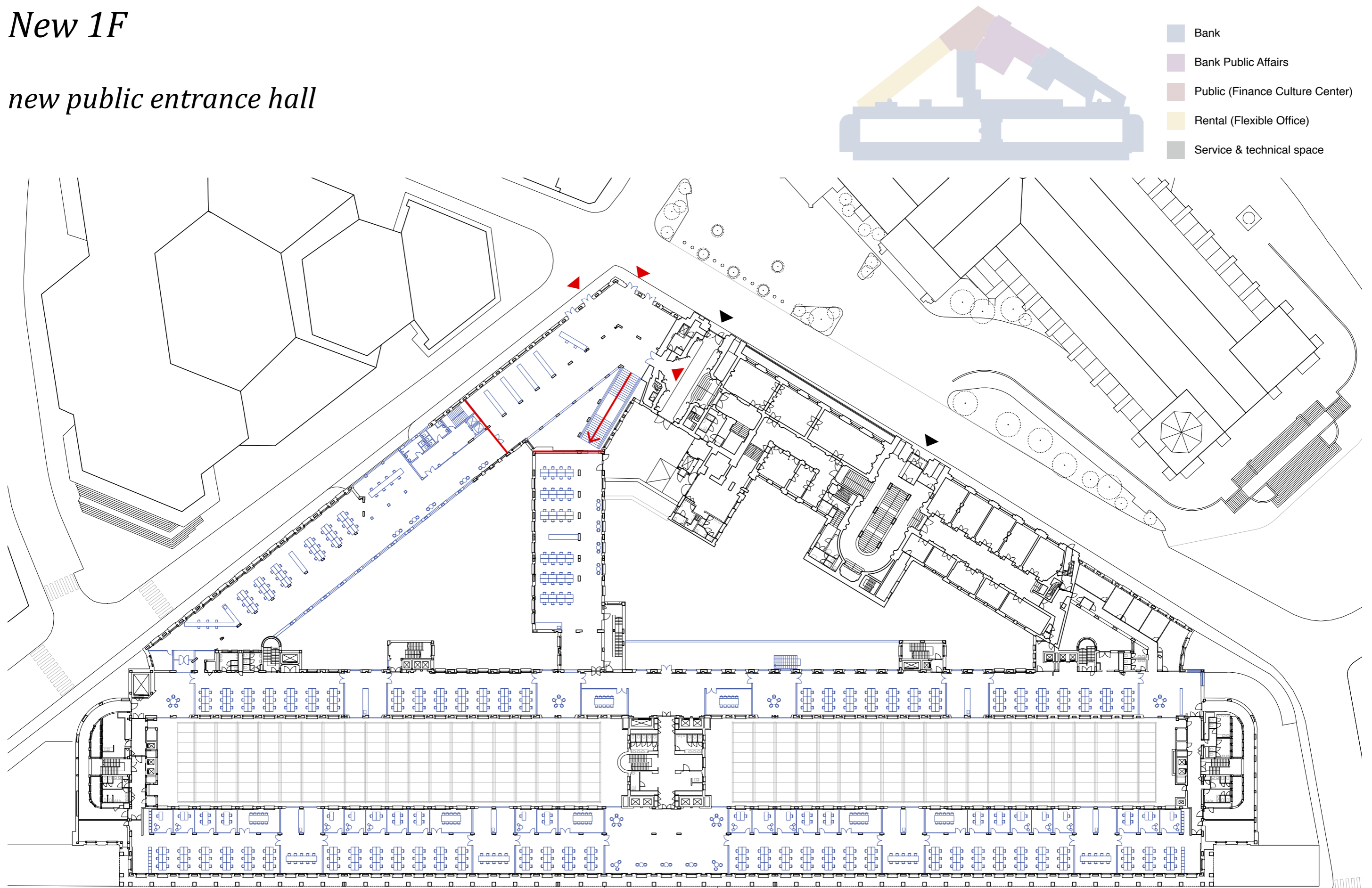
# New 0.5F

*opening of the courtyard to the triangle area*



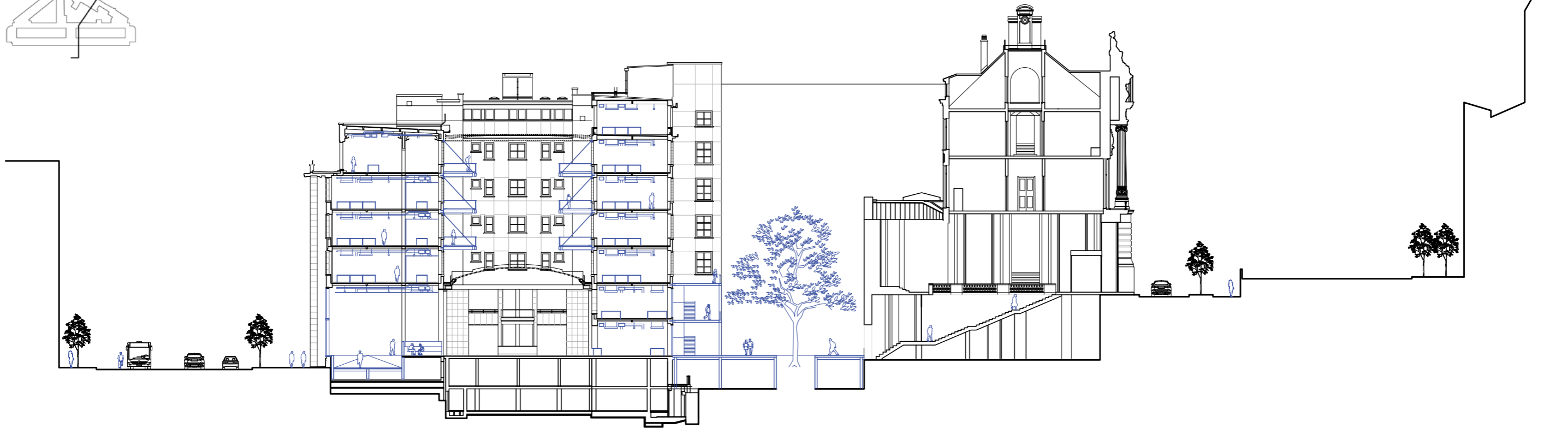
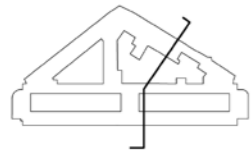
# New 1F

*new public entrance hall*

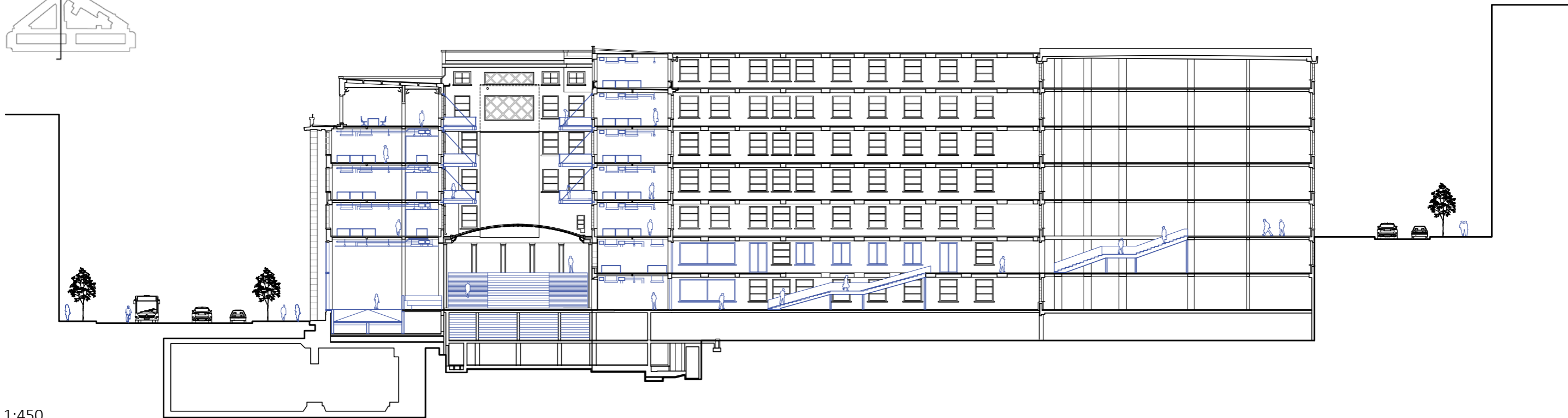
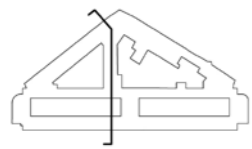




# Bank route section



# Public route section

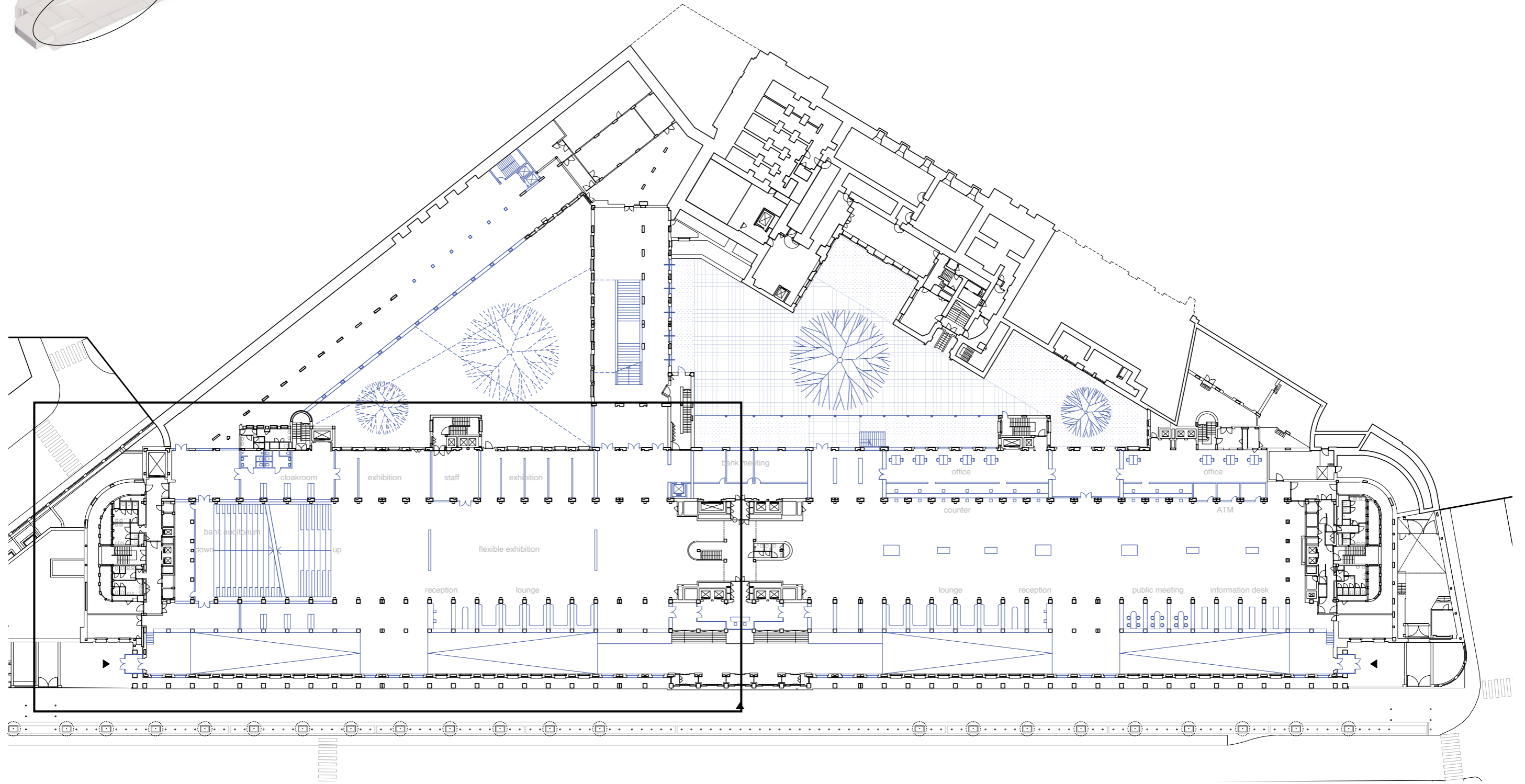
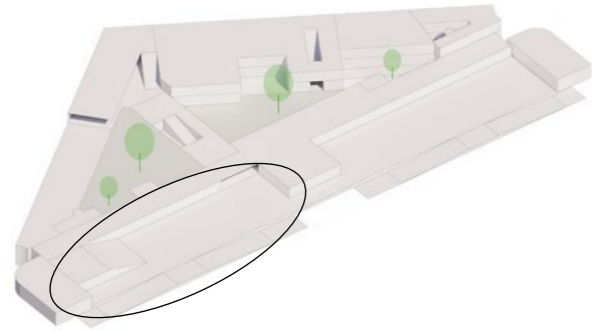


1:450

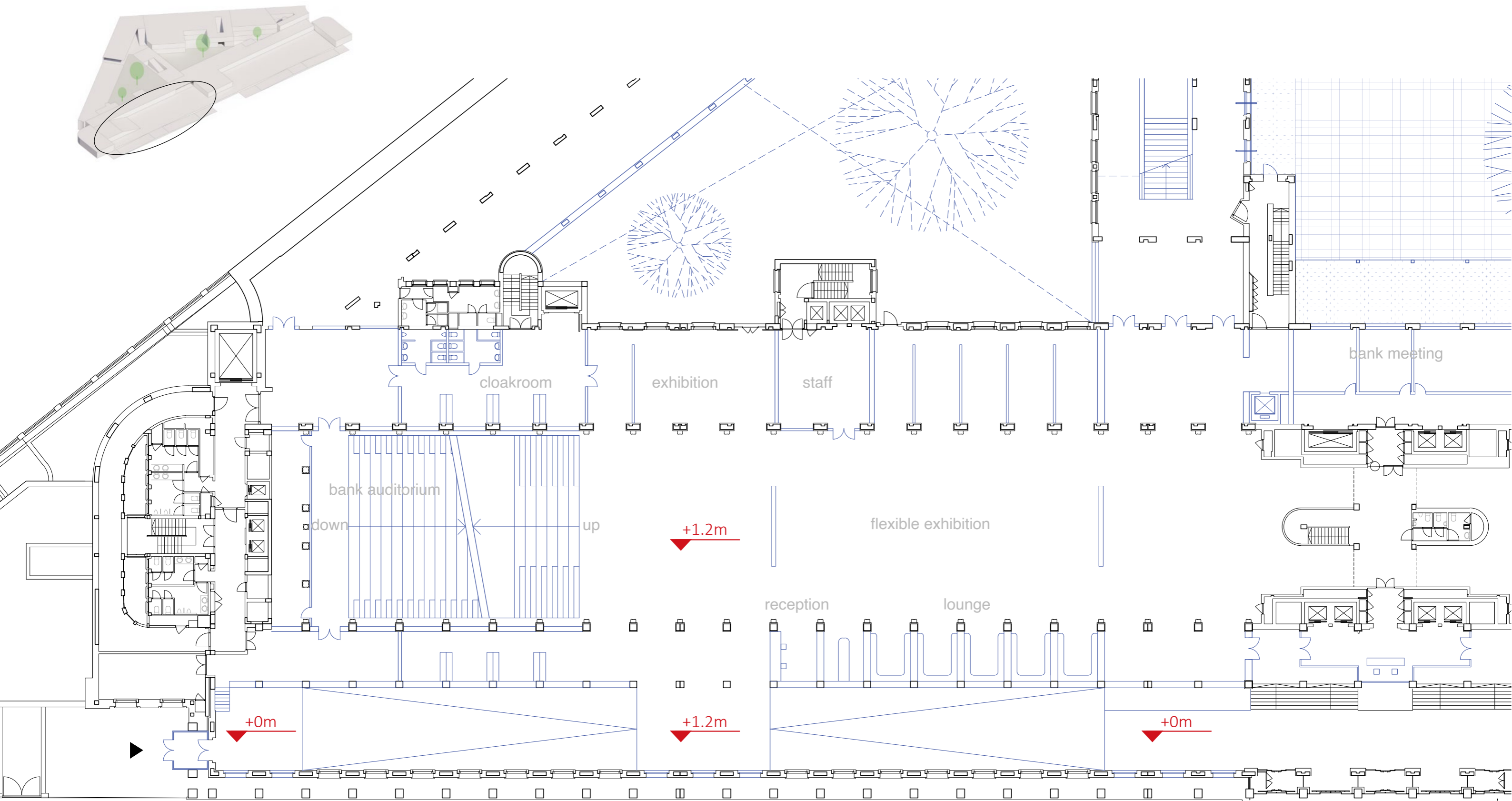
## *Public Landscape System*



# Ground floor & Facade



# Ground floor & Facade

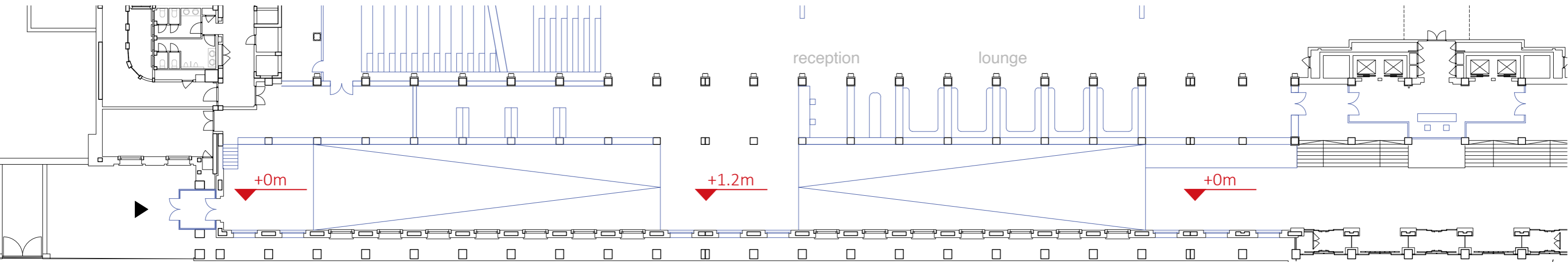


1:300



# Ground floor & Facade

Maximum transparency of façade windows corresponding to the axis (platform)



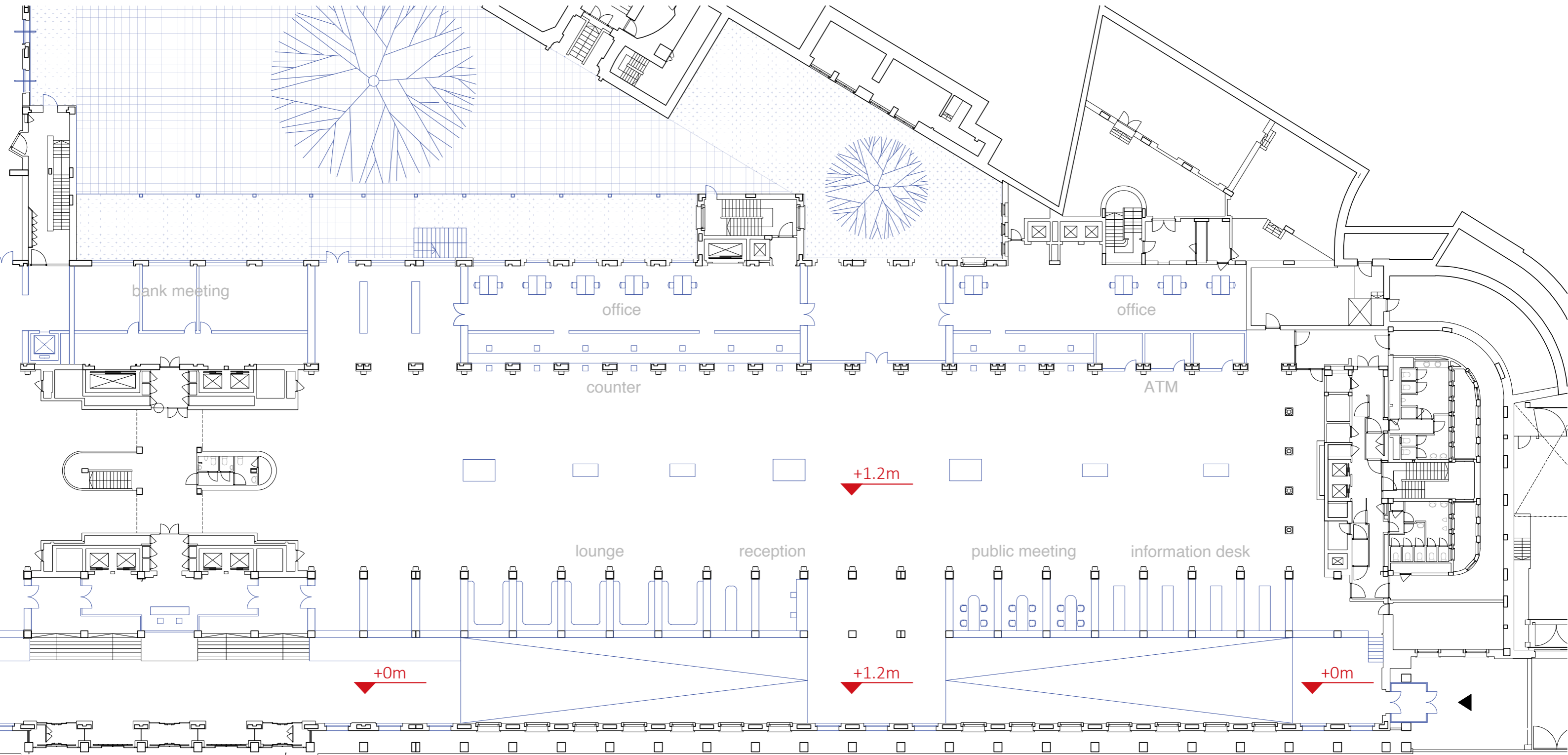
1:300

# Section



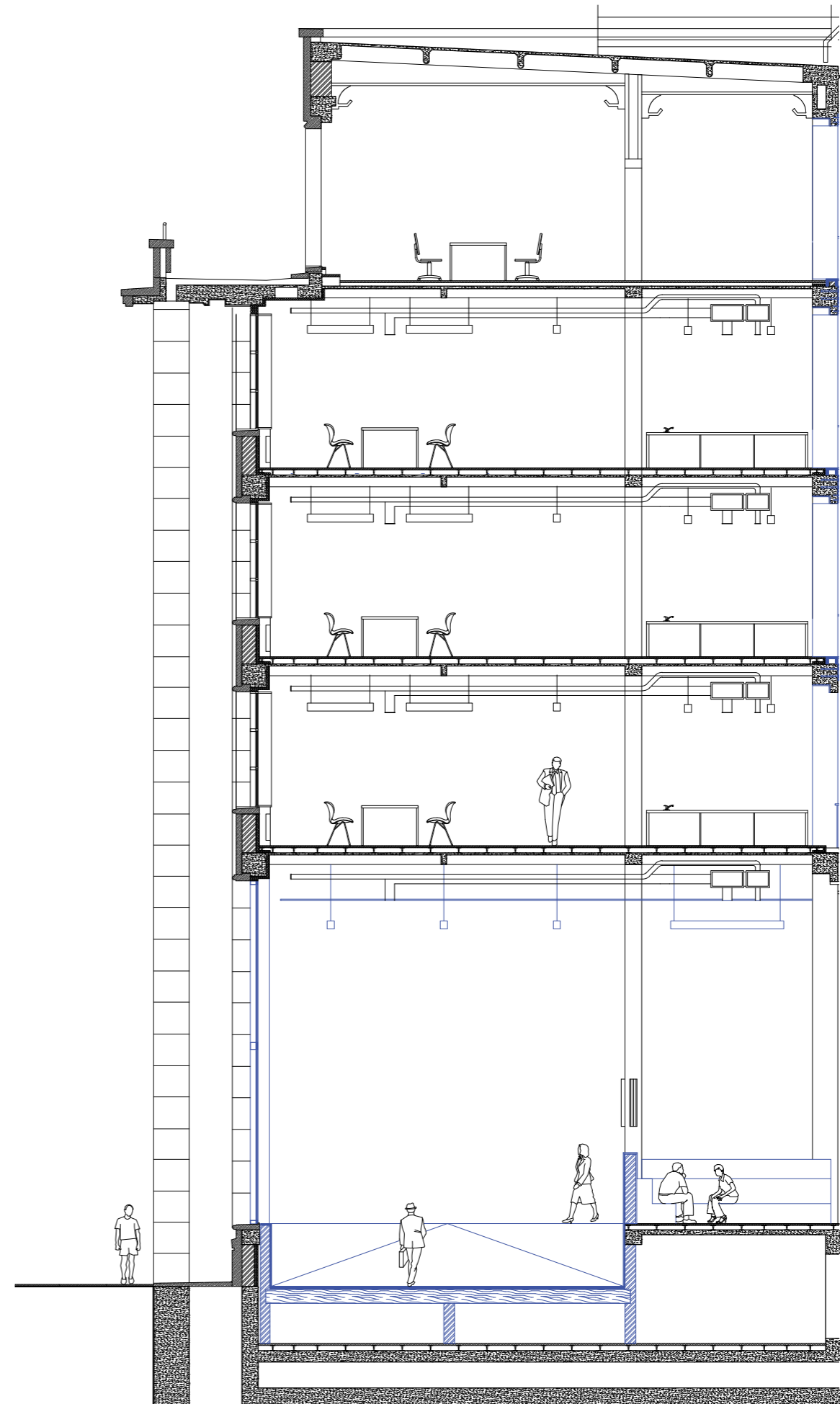
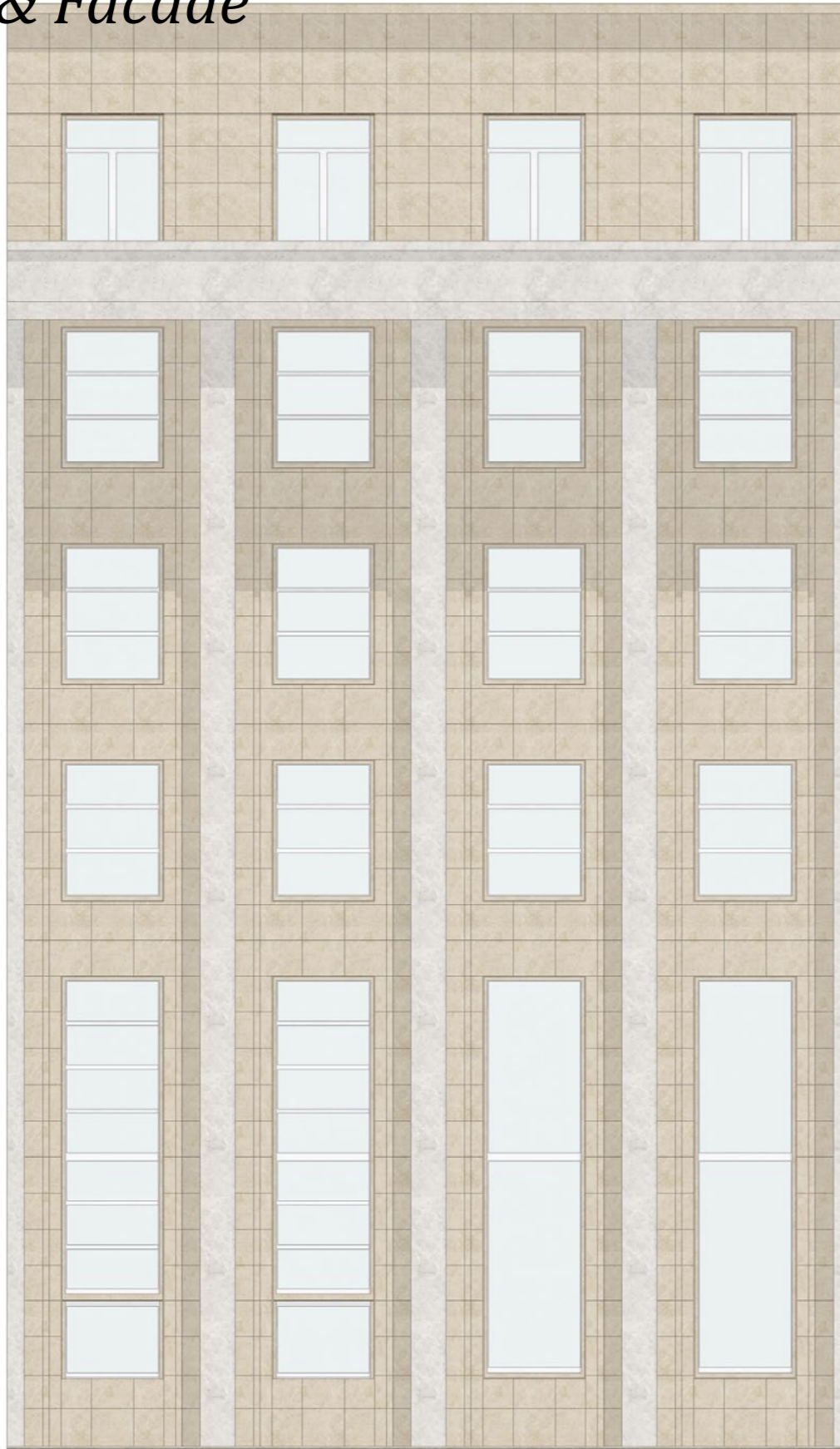


# Ground floor & Facade



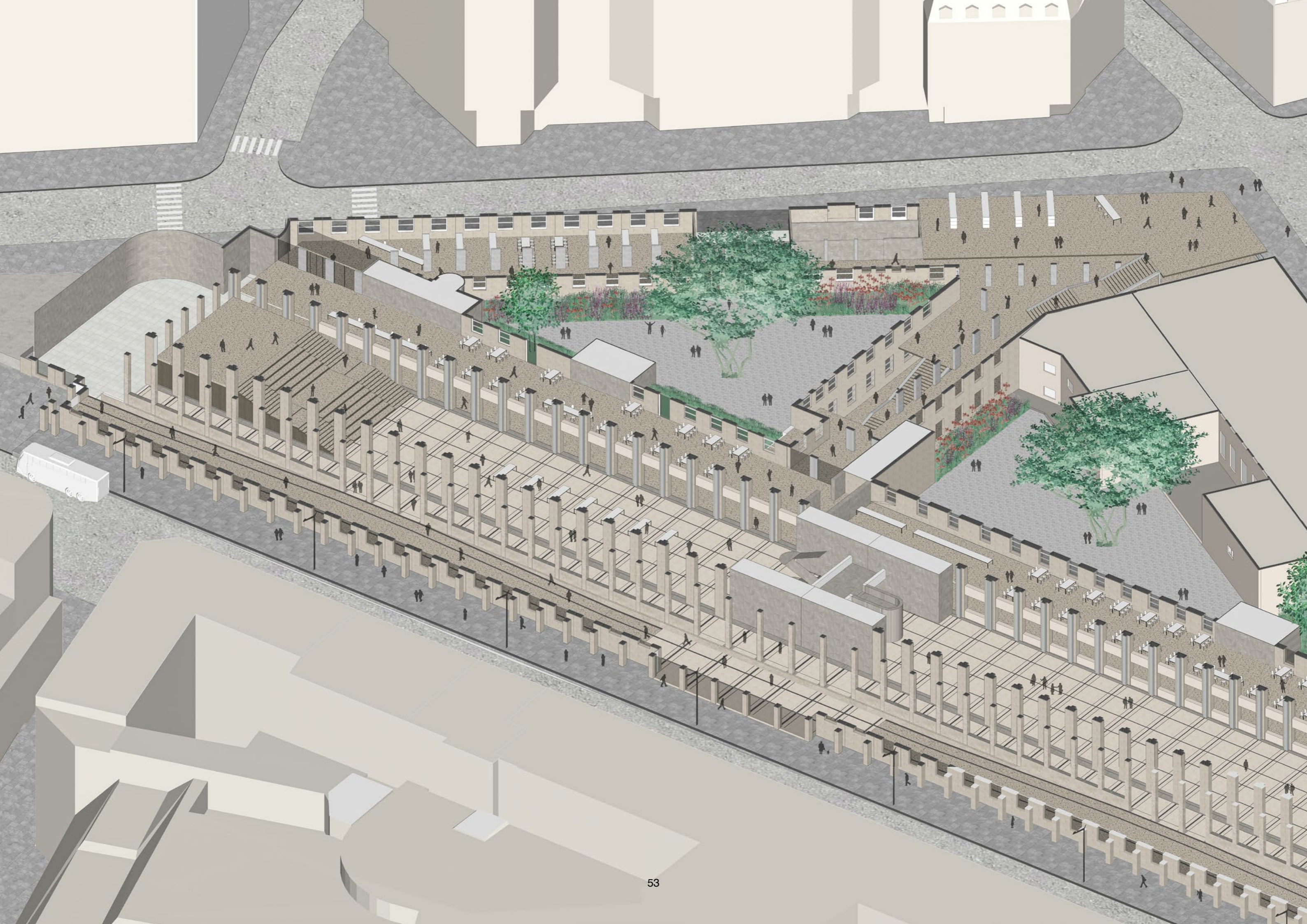
1:300

# Ground floor & Facade



1:100







# *Existing Material*



## *Exterior*

Sidewalk paving: concrete  
Bank outdoor paving: natural stone  
Column cladding: natural stone  
Plinth cladding: natural stone



## *Foyer*

Flooring: marble  
Column cladding: marble

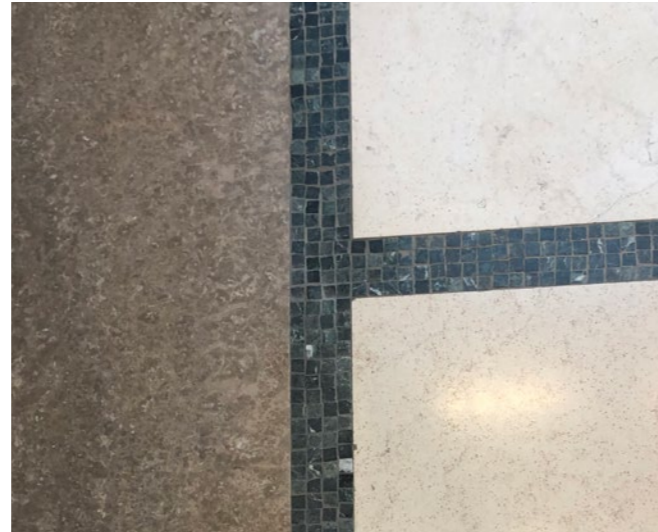


## *Hall*

Flooring: marble, mosaic  
Column cladding: aluminum



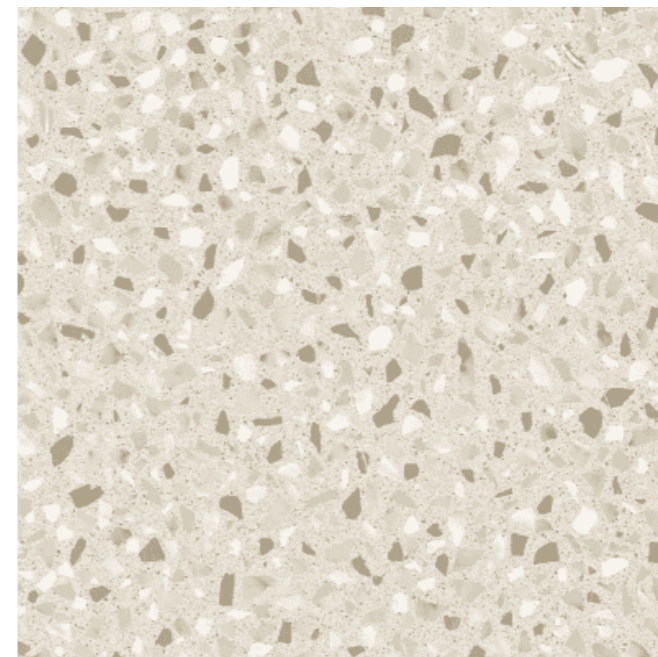
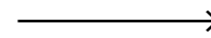
# *Ramp material*



*Marble, Mosaic*



*Recycled concrete*



*Terrazzo*







*Ramp space*



*Heavy material*





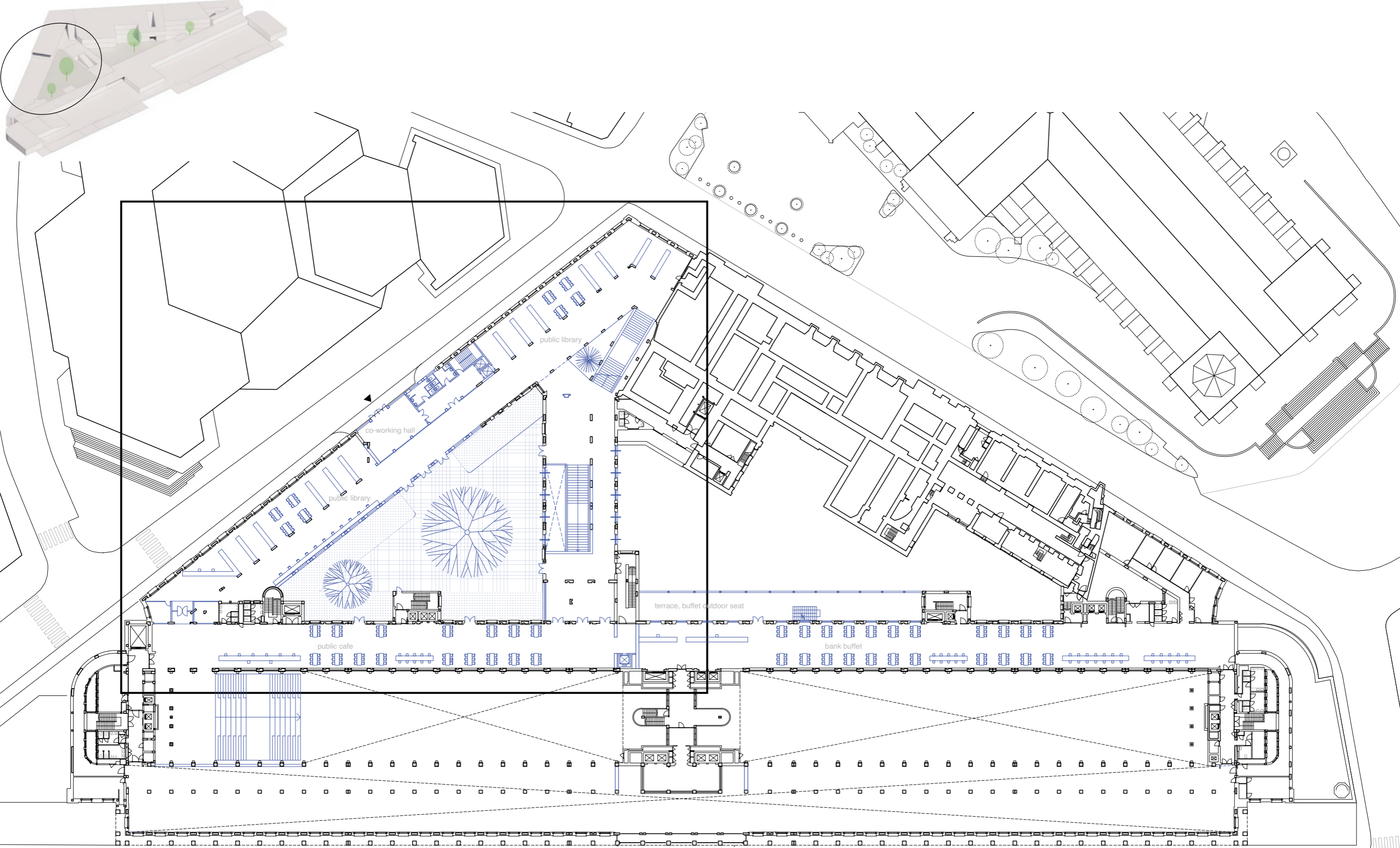




*From Ramp to Hall*

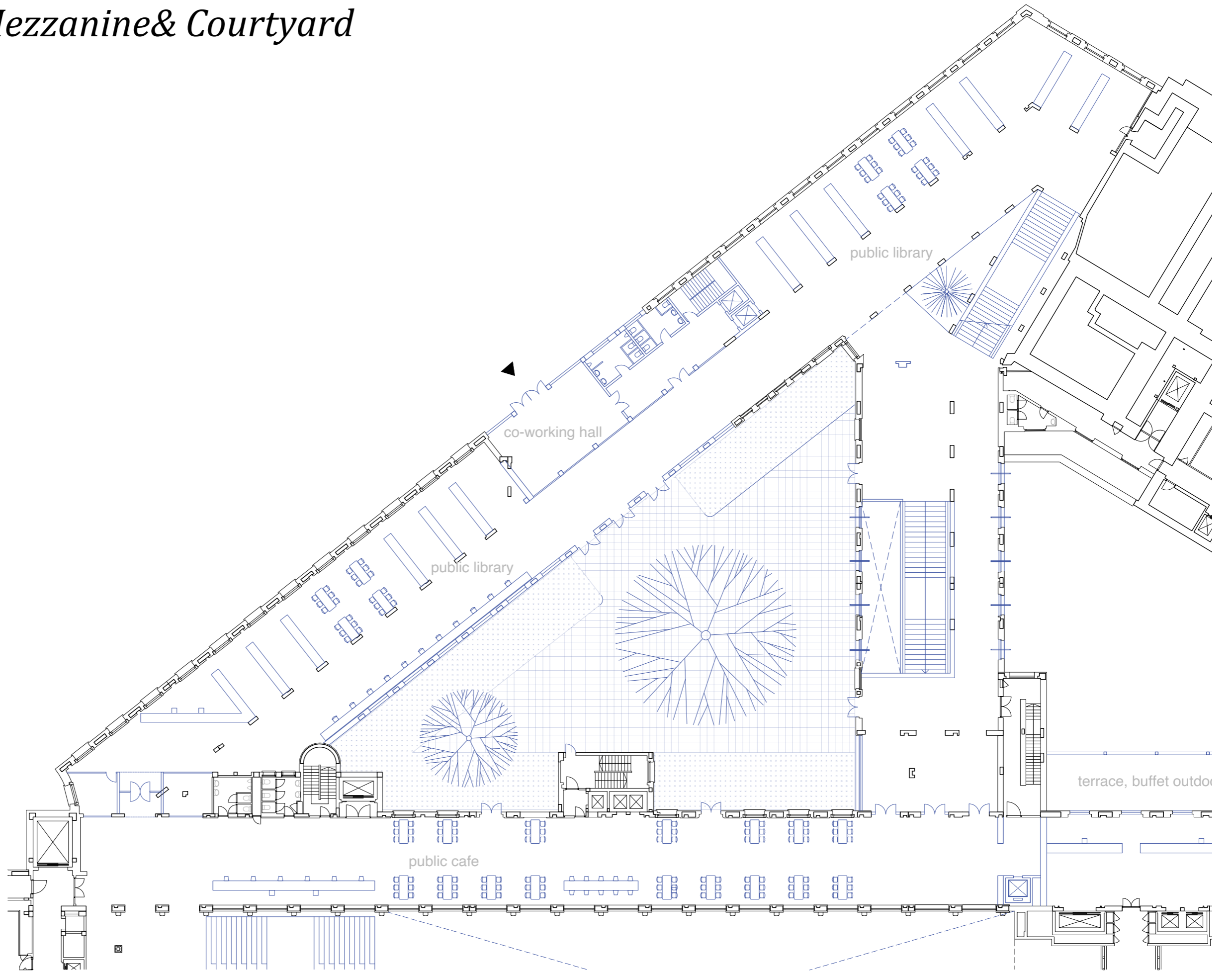


# Triangular Mezzanine & Courtyard



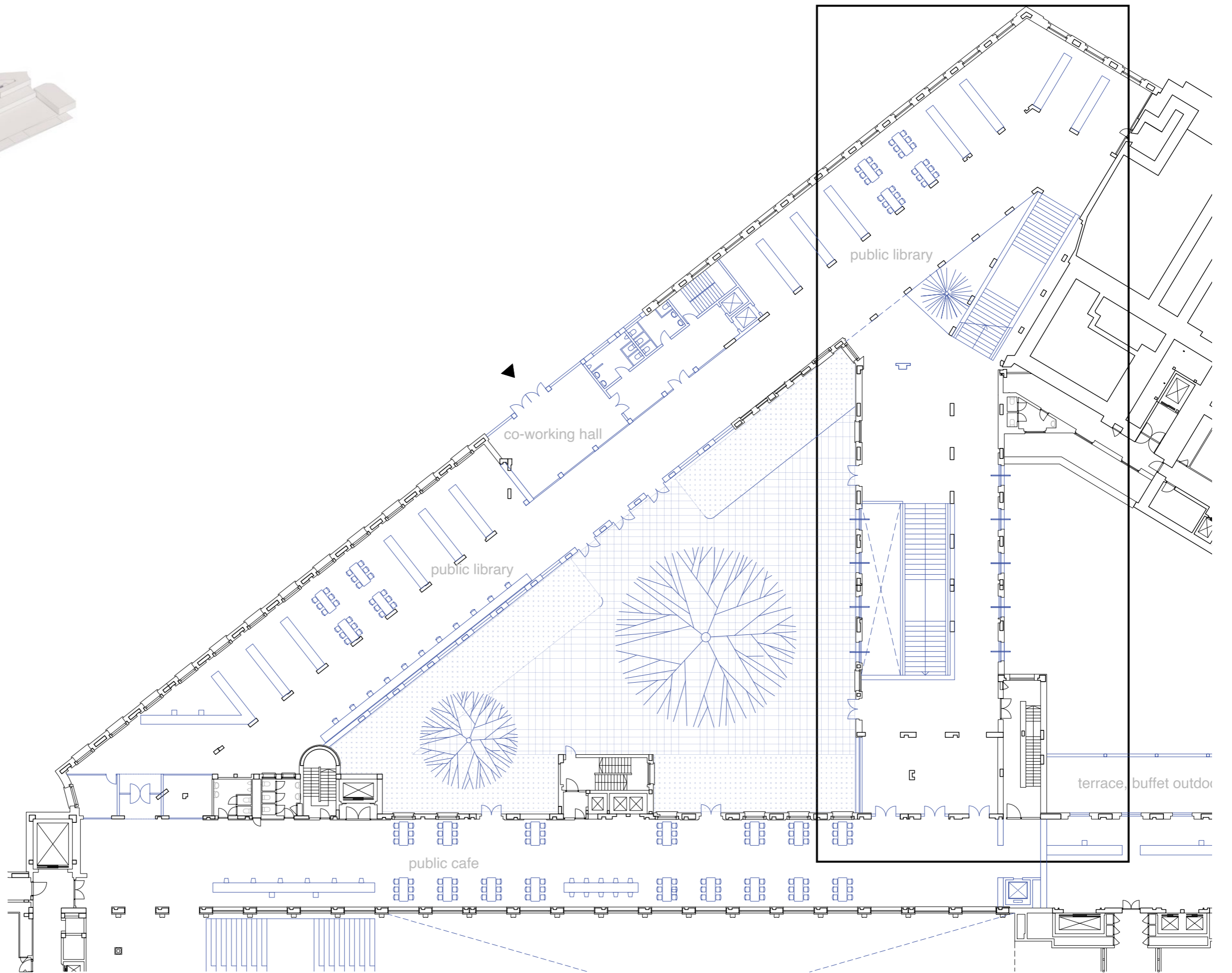
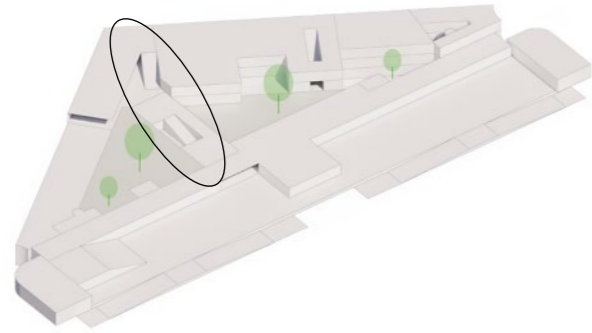


# Triangular Mezzanine & Courtyard



1:300

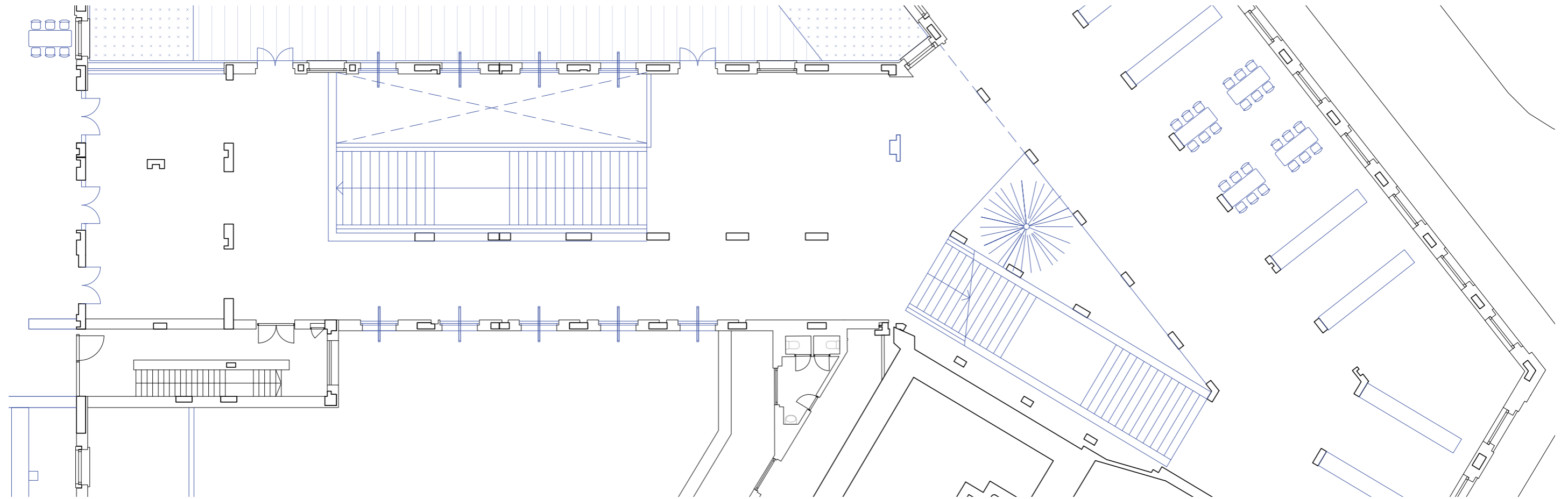
# Two Stairs



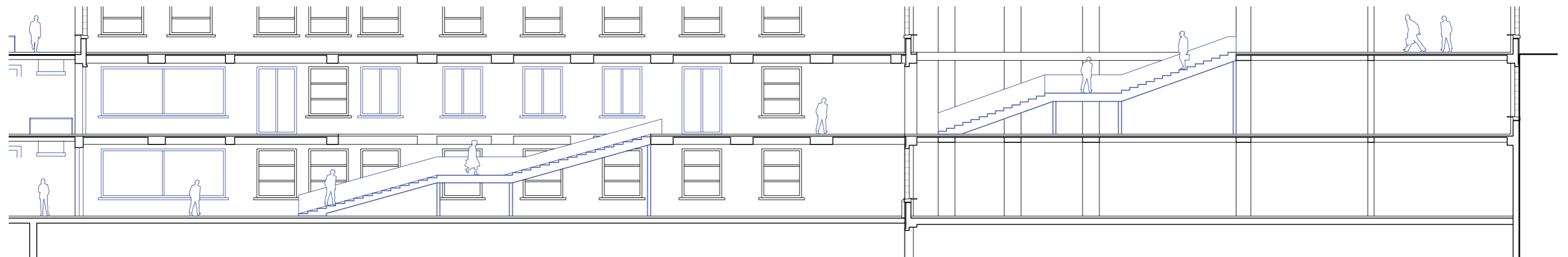
1:300



# Two Stairs



*Gentle slope to enjoy courtyards on both sides*



1:200







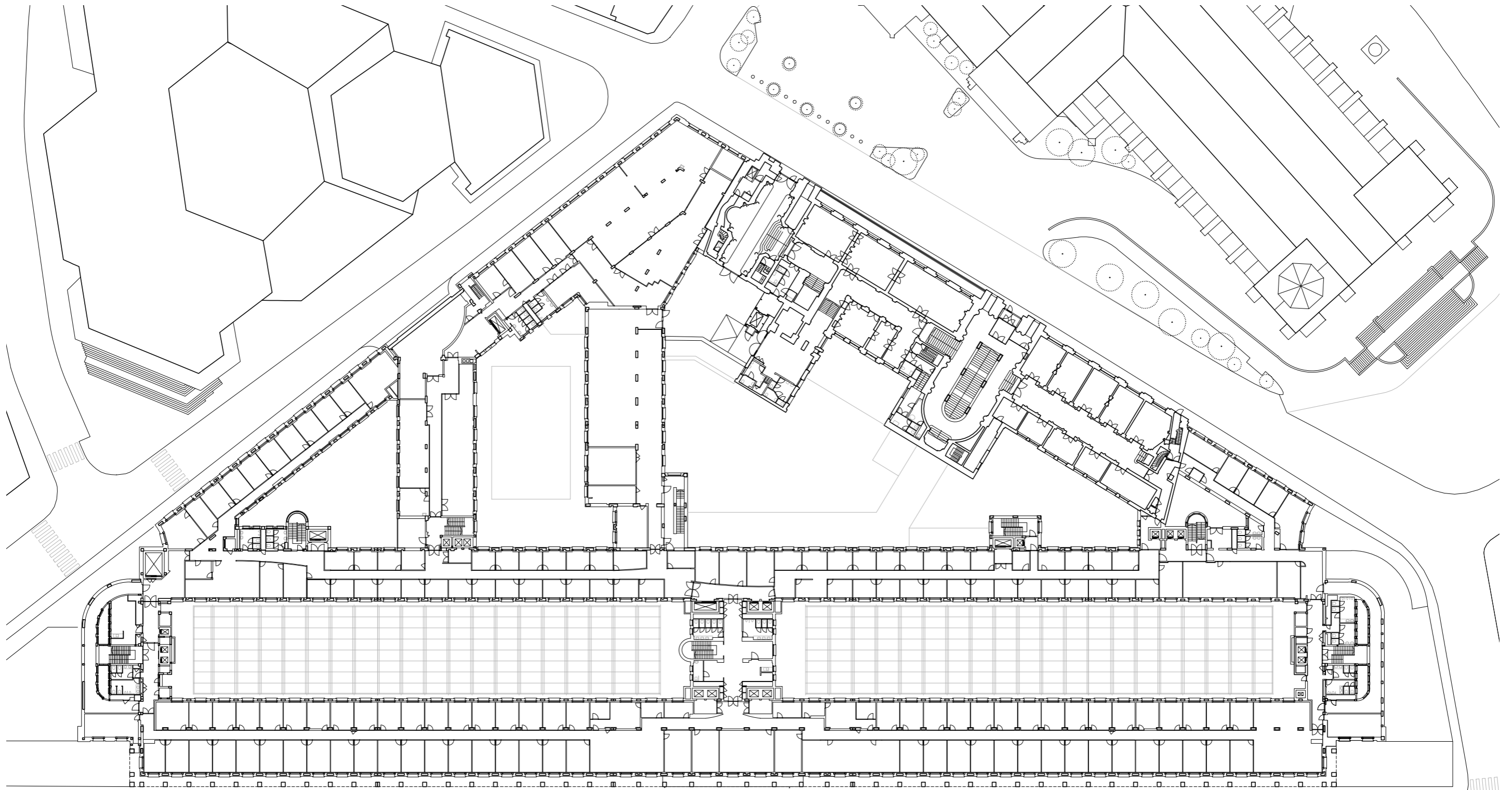
# *Two Stairs*



## *Office System*

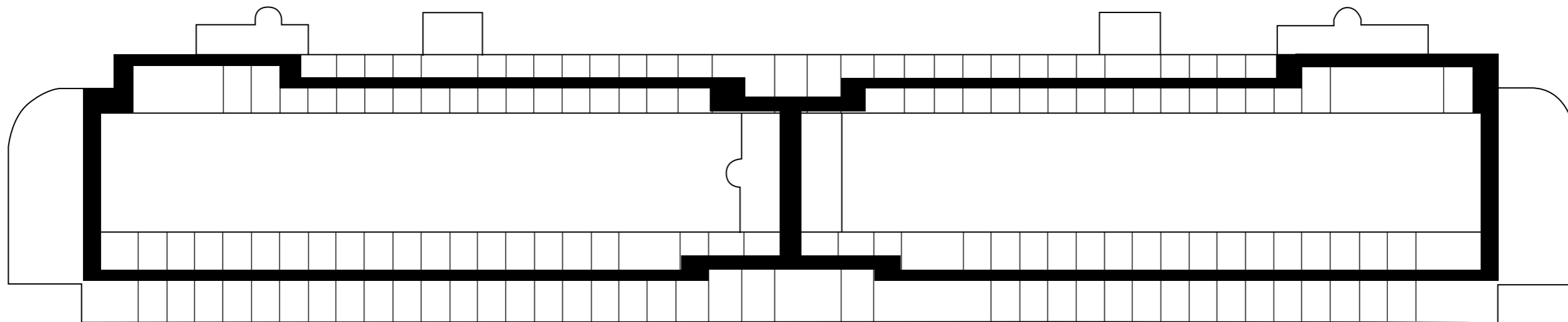


*Current, 1F*



# *Current, 1F*

*monotonous and lengthy  
limiting communication between employees*



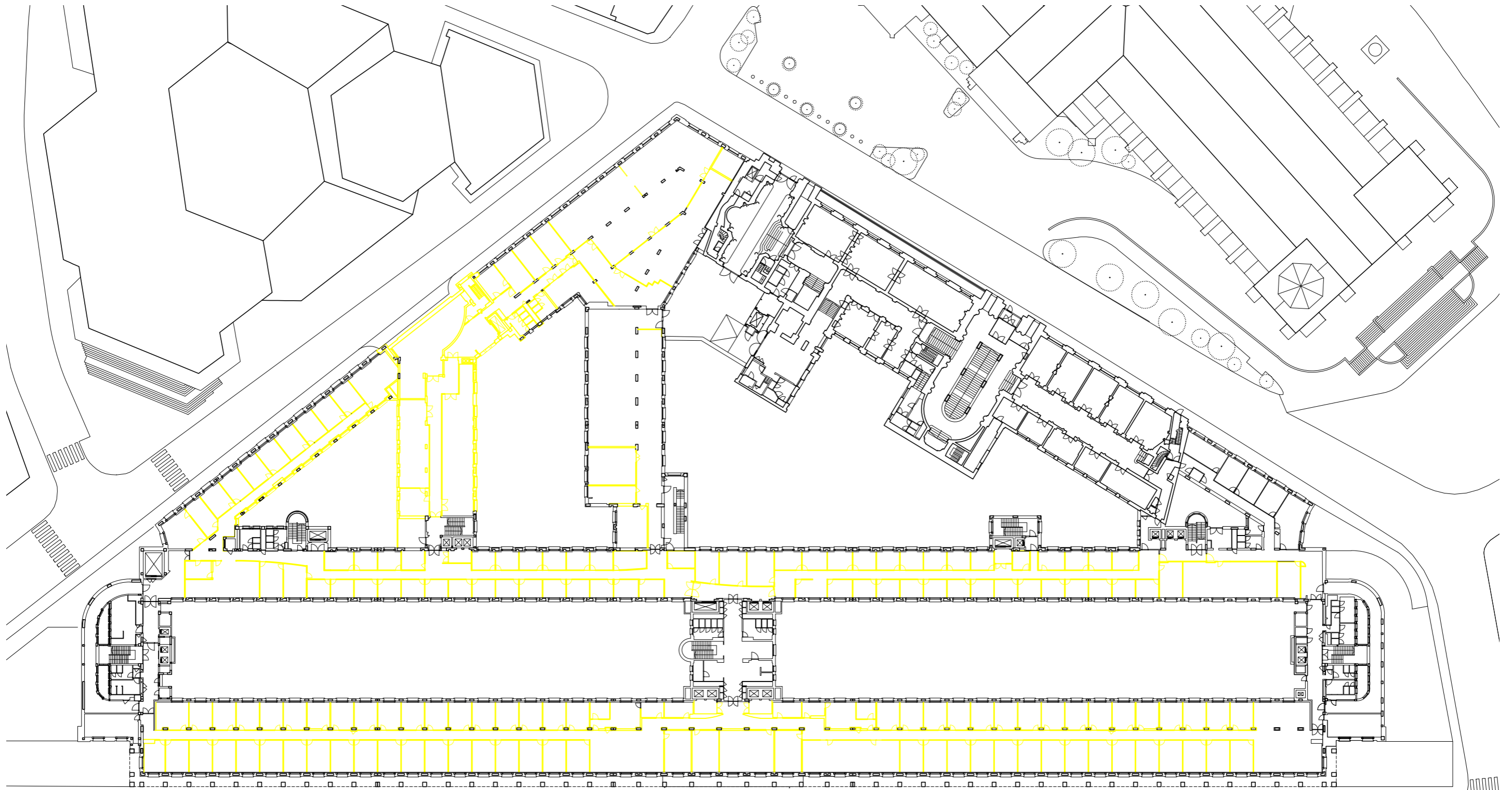


*Idea from social plinth*

*Breaking the existing trend to create new relations*



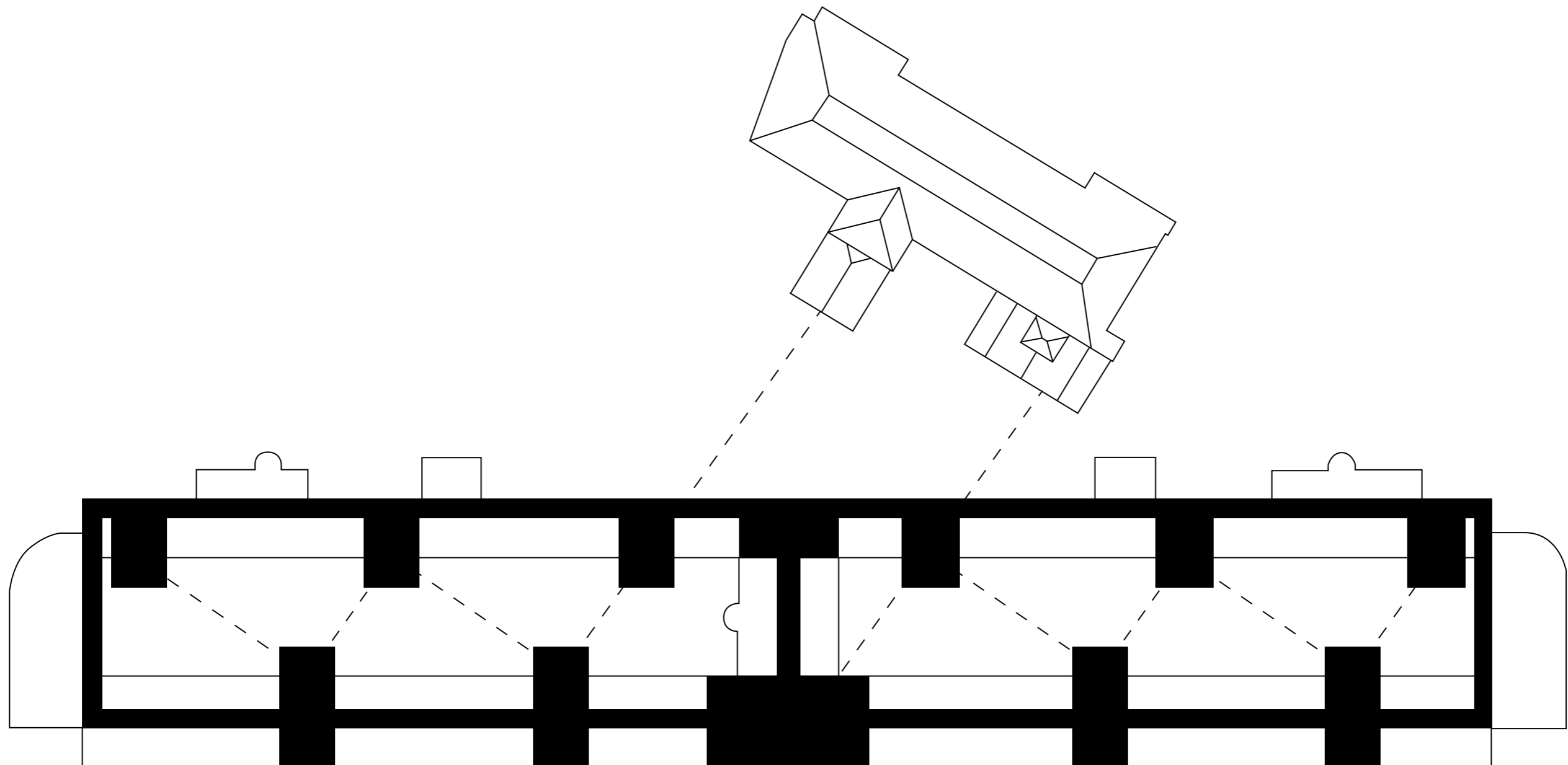
*Remove, 1F*



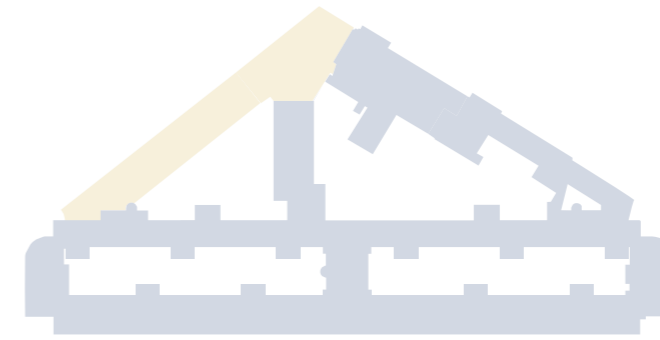


*New, typical office plan*

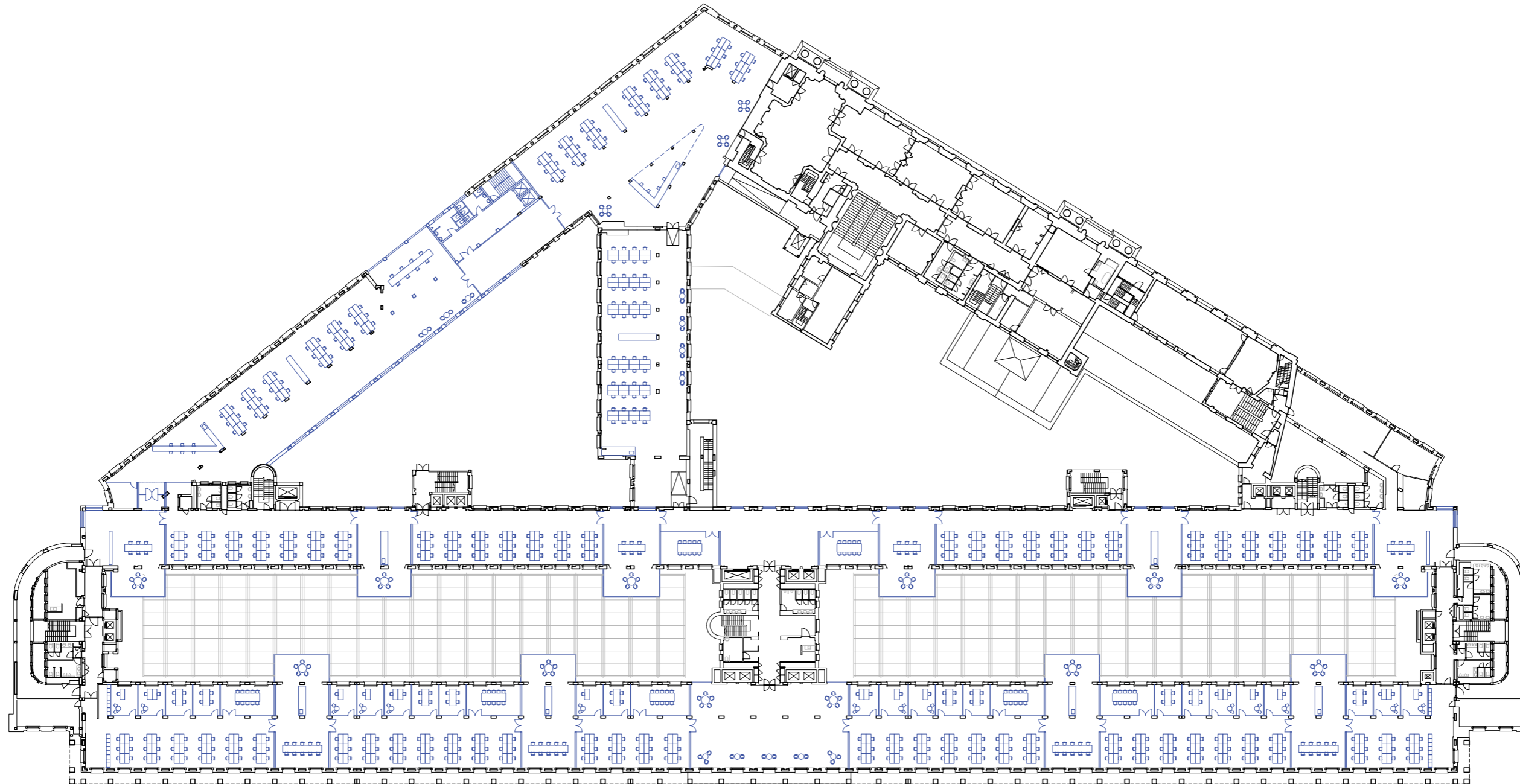
*Breaking the existing trend by placing in public areas  
Create new relations with Hotel van de gouverneur*



# *New typical office, 3F*

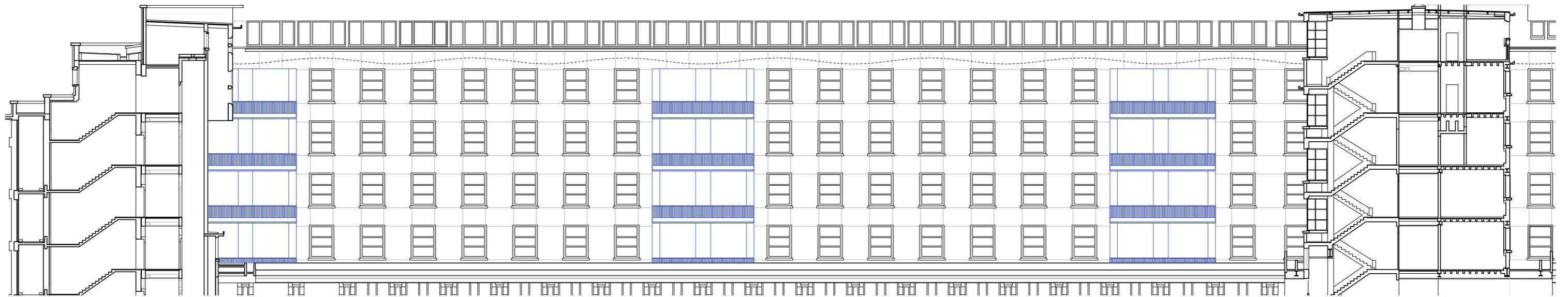
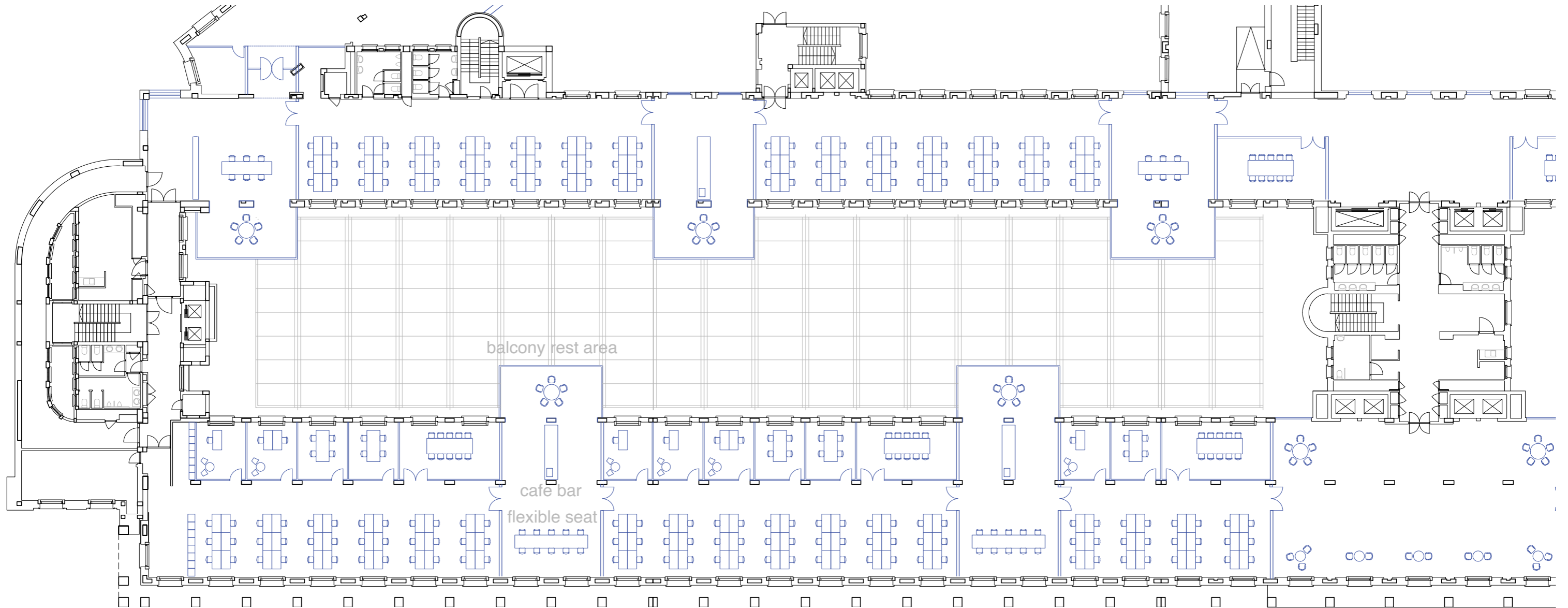


- Bank
- Bank Public Affairs
- Public (Finance Culture Center)
- Rental (Flexible Office)
- Service & technical space





# New Office



1:300

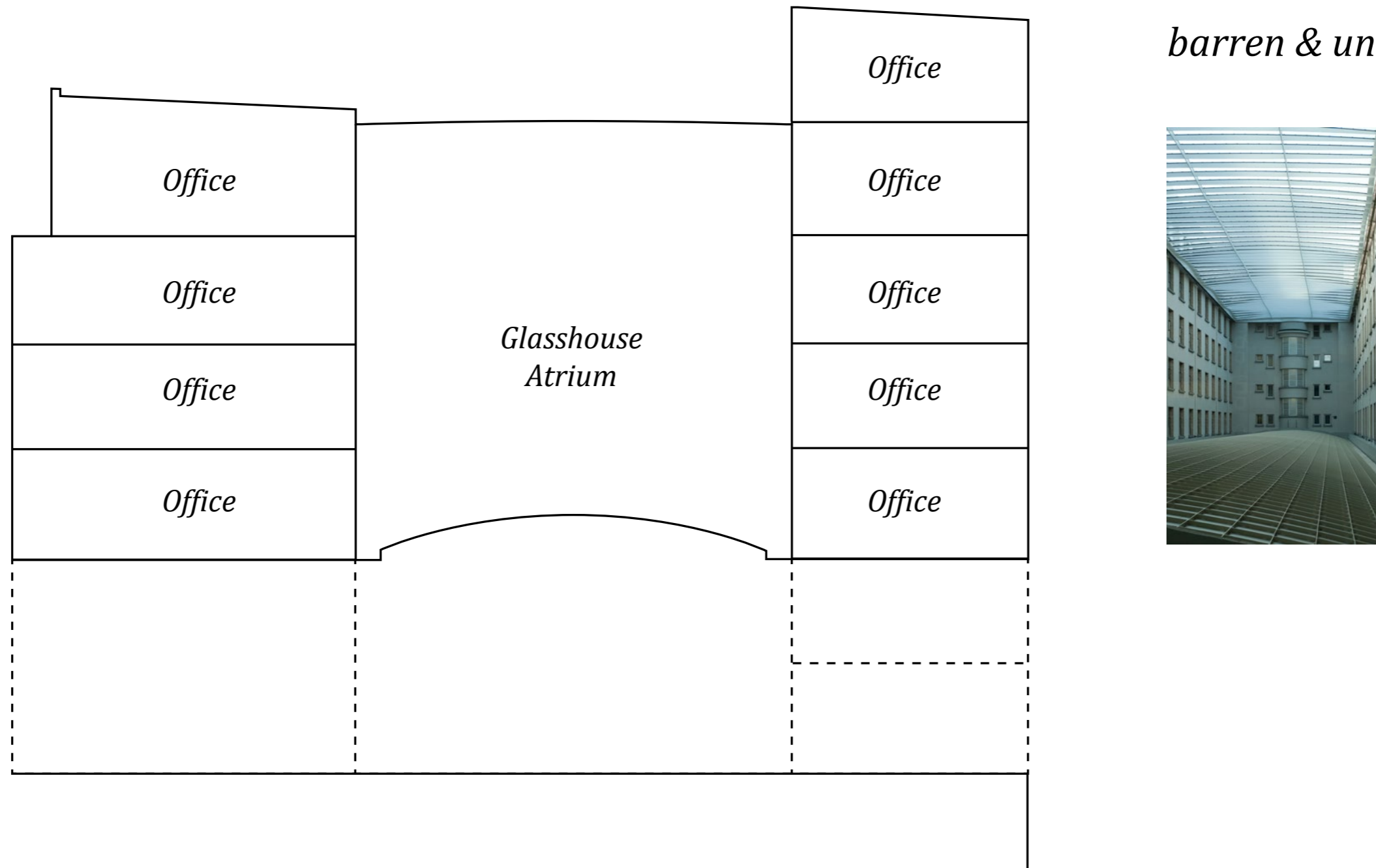
*Current section*



1:150



*Current section*

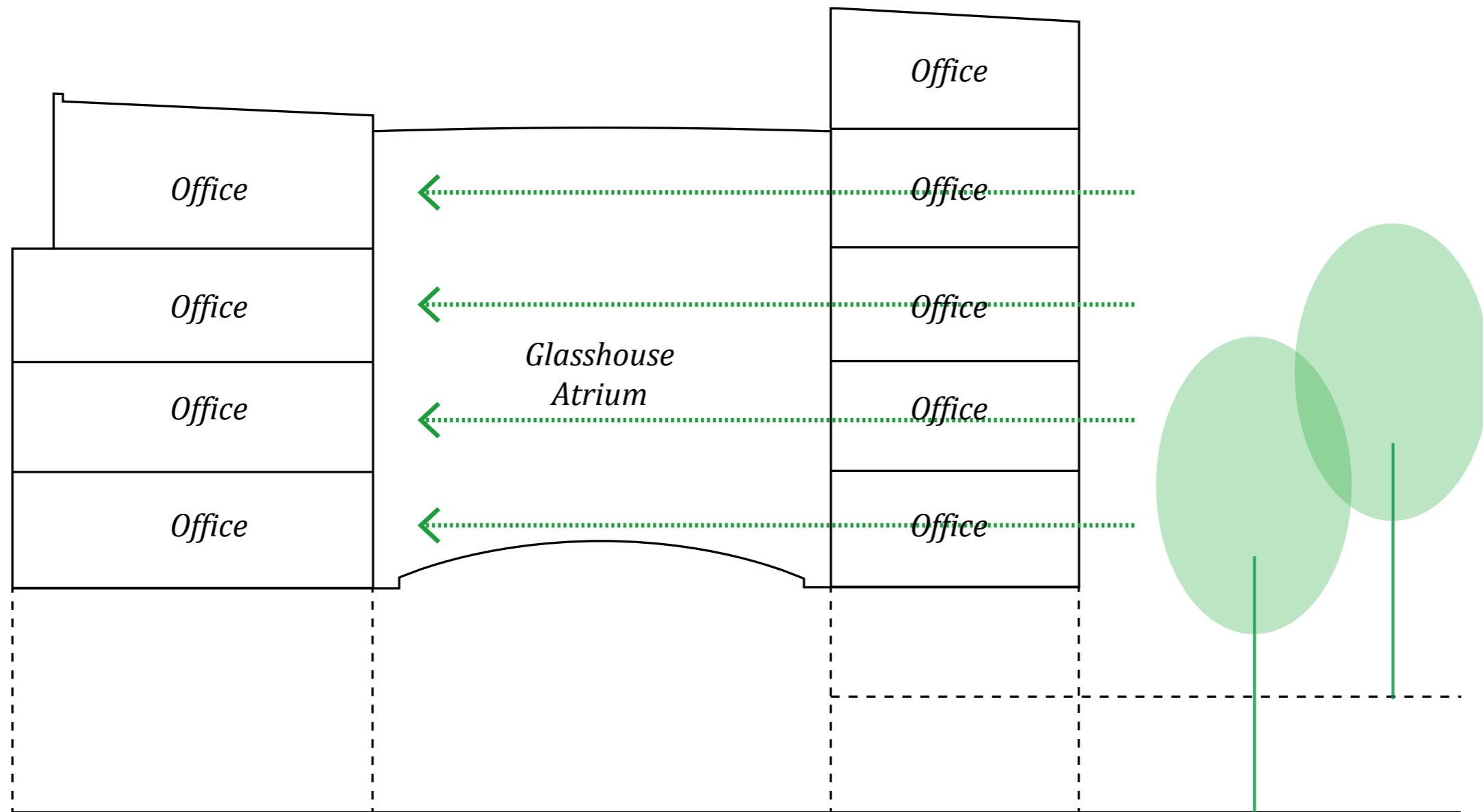


*barren & unused*



# Idea

*Activate the glasshouse by introducing greenery of the courtyard*



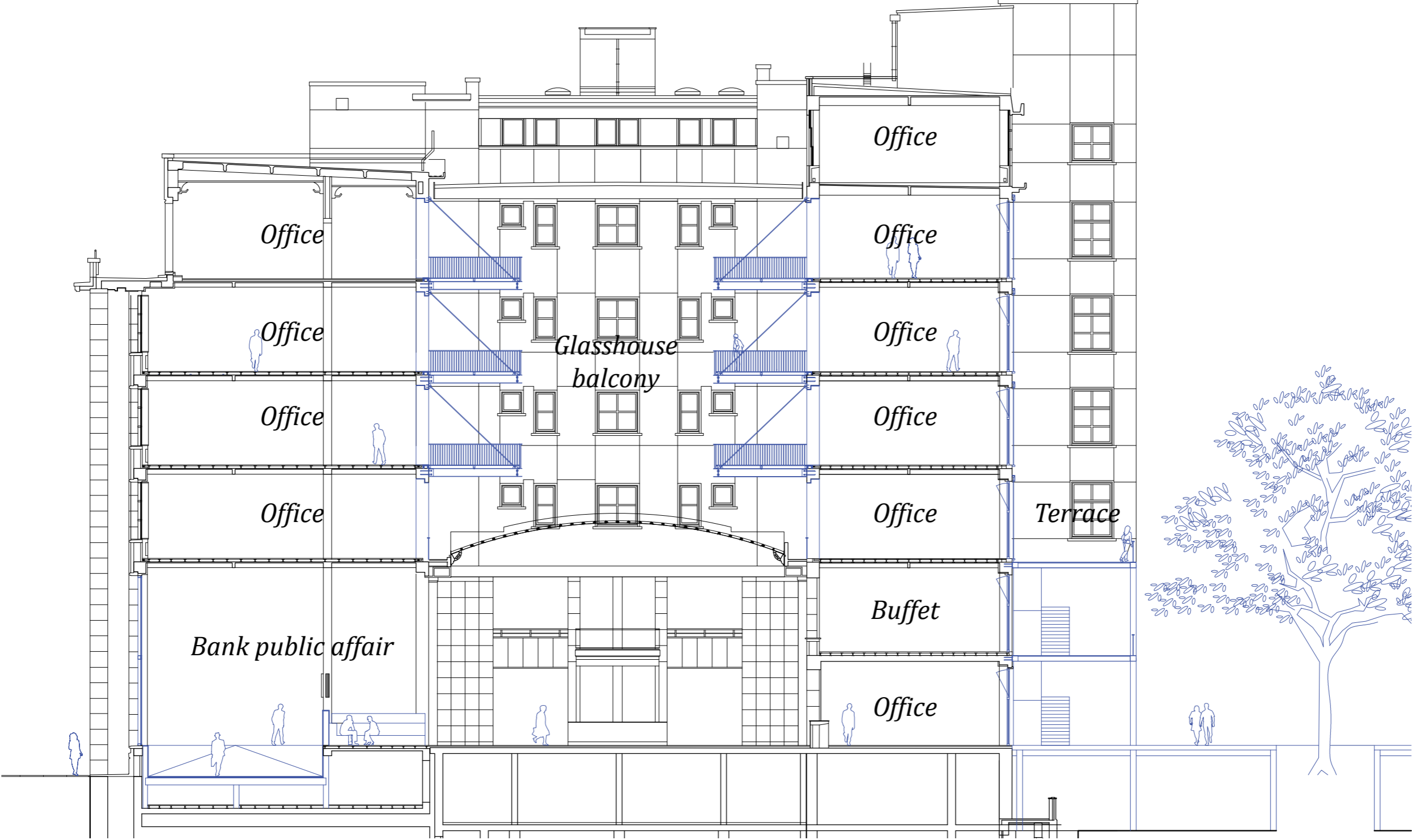


*Remove, section*



1:150

*Add, section*









*Glasshouse balcony*

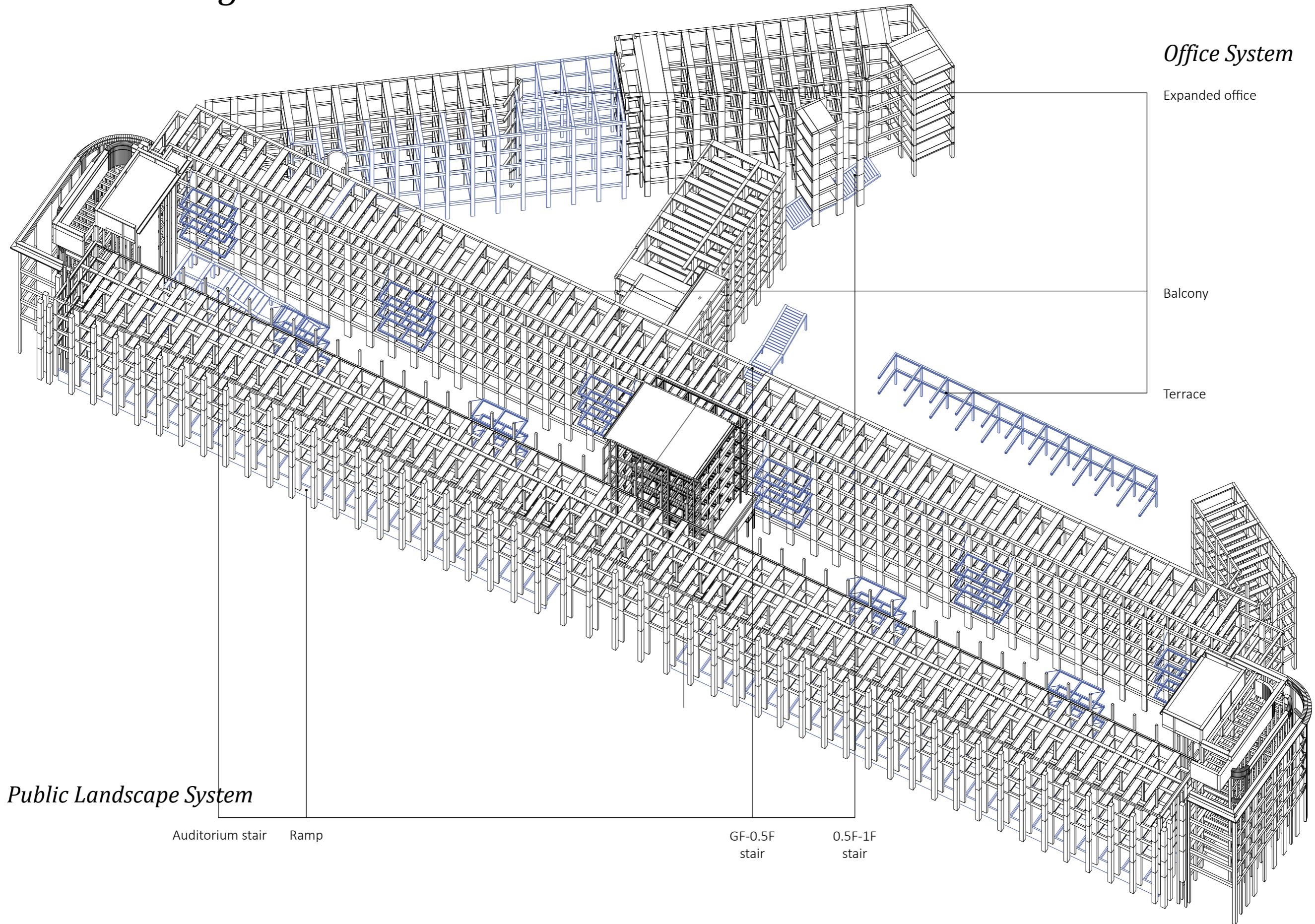


*Light material*





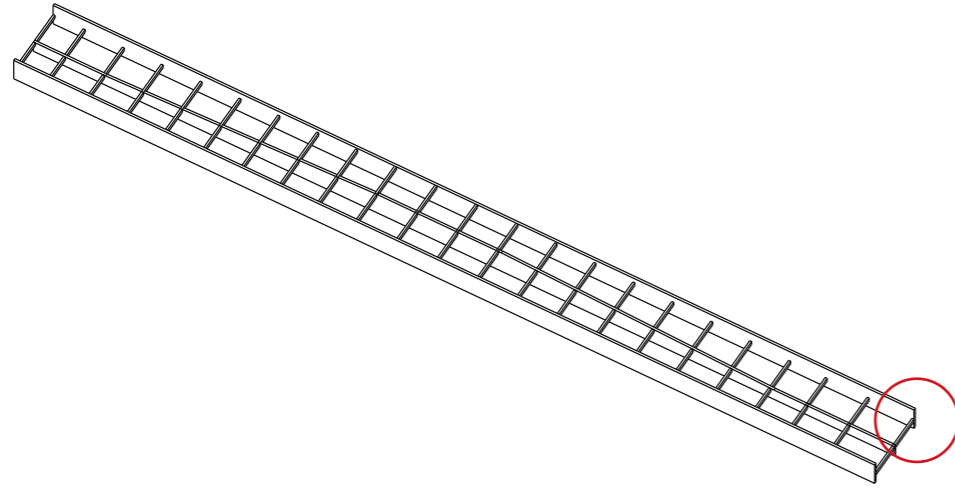
# Construction diagram



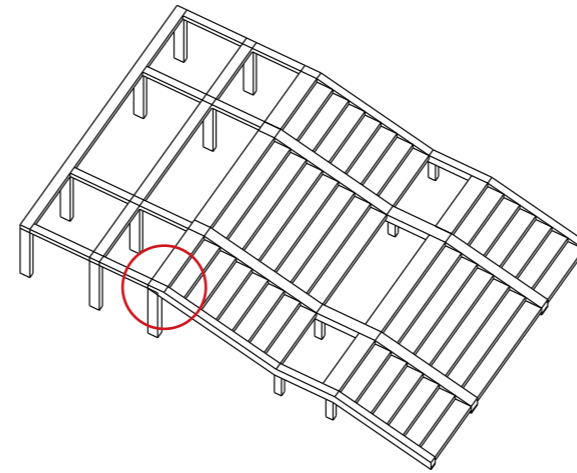
# Construction diagram

## Public Landscape System

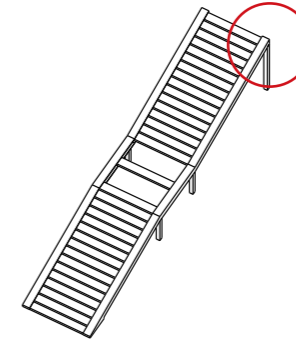
Ramp



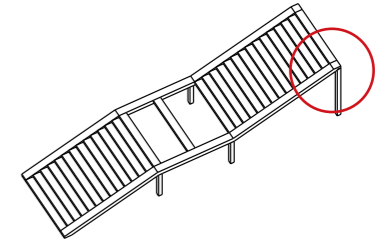
Auditorium stair



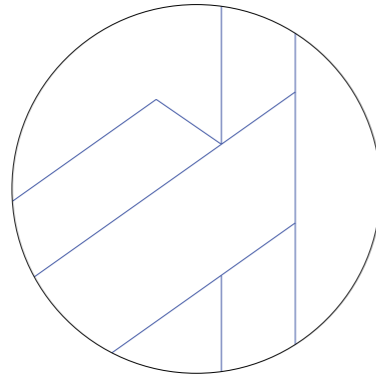
GF-0.5F stair



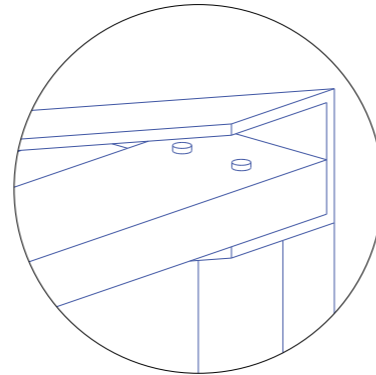
0.5F-1F stair



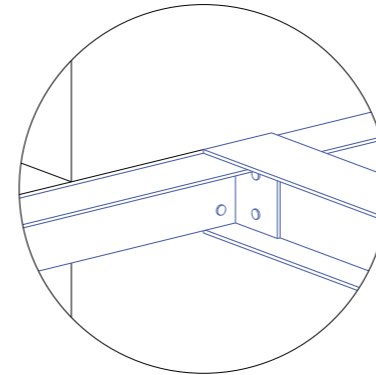
Ramp:  
brick, wood



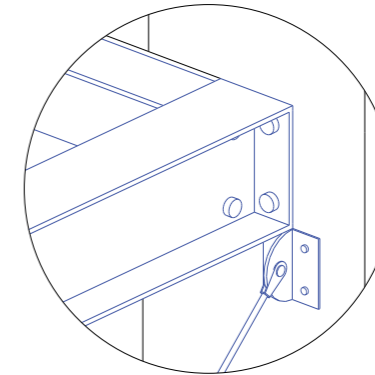
Stair:  
steel, wood



Extension:  
steel

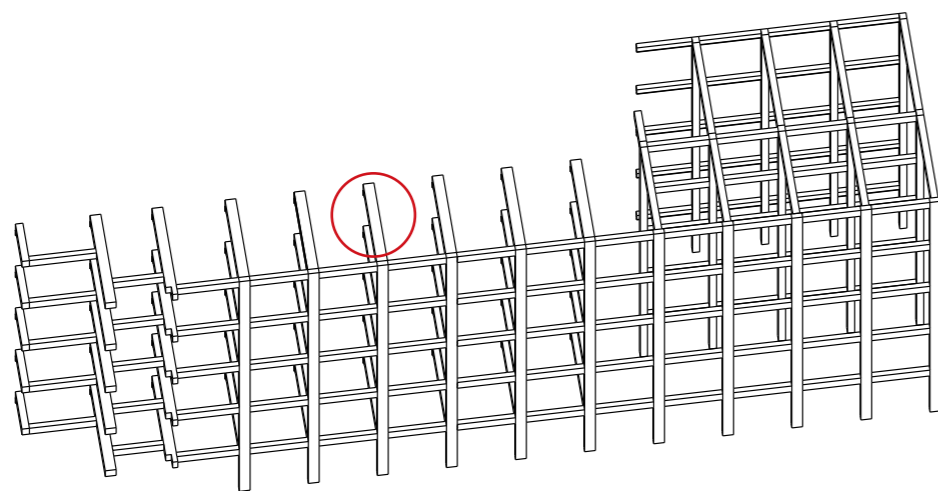


Balcony:  
steel

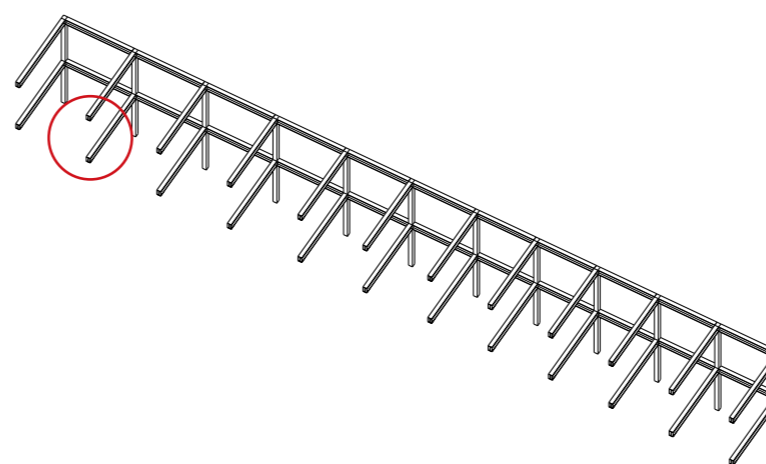


## Office System

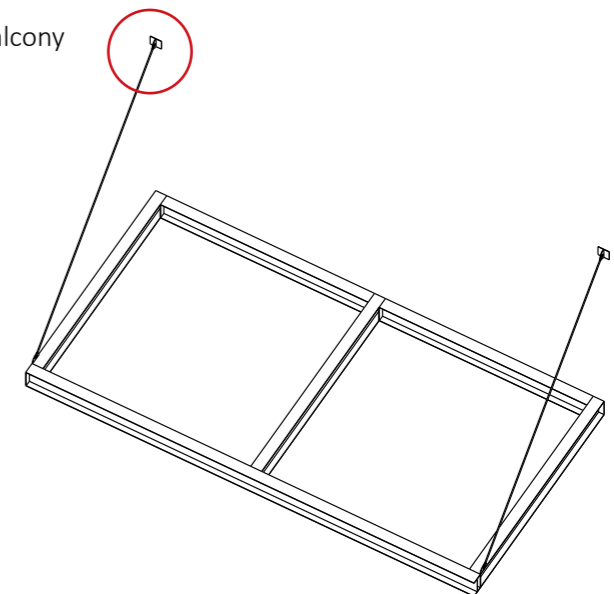
Expanded office



Terrace

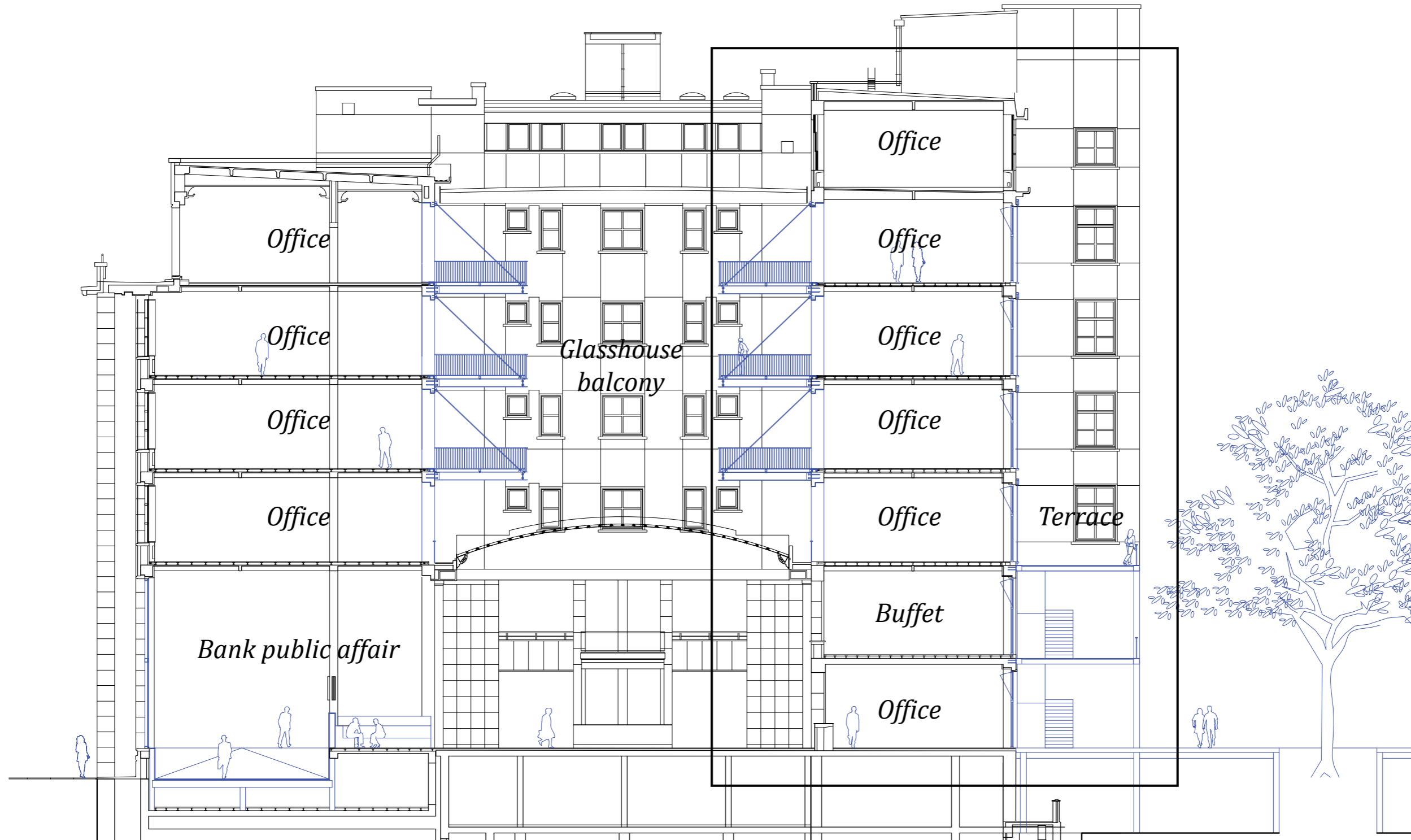


Balcony





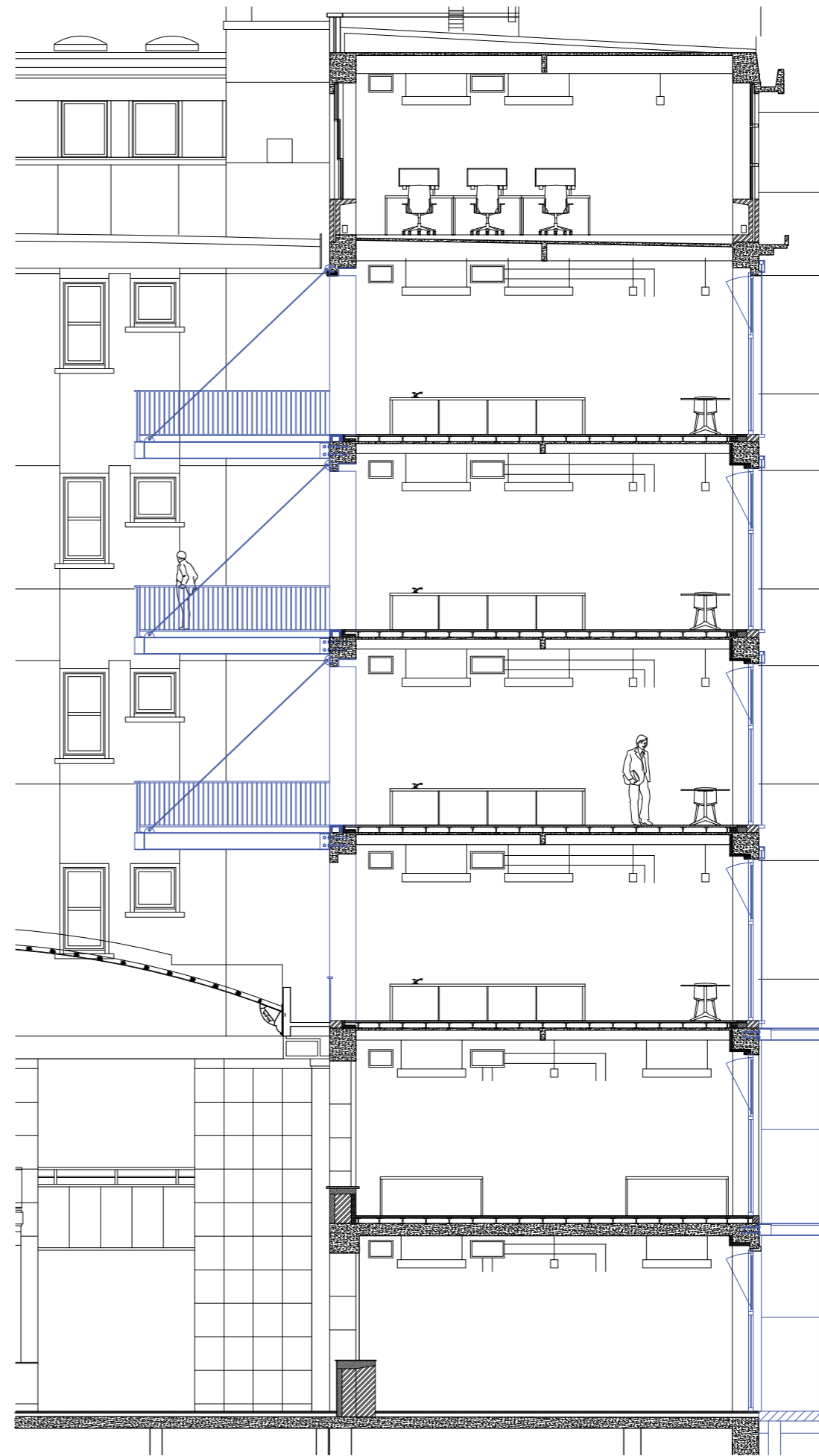
# *Southeast Office*



# *Glasshouse Balcony Facade*

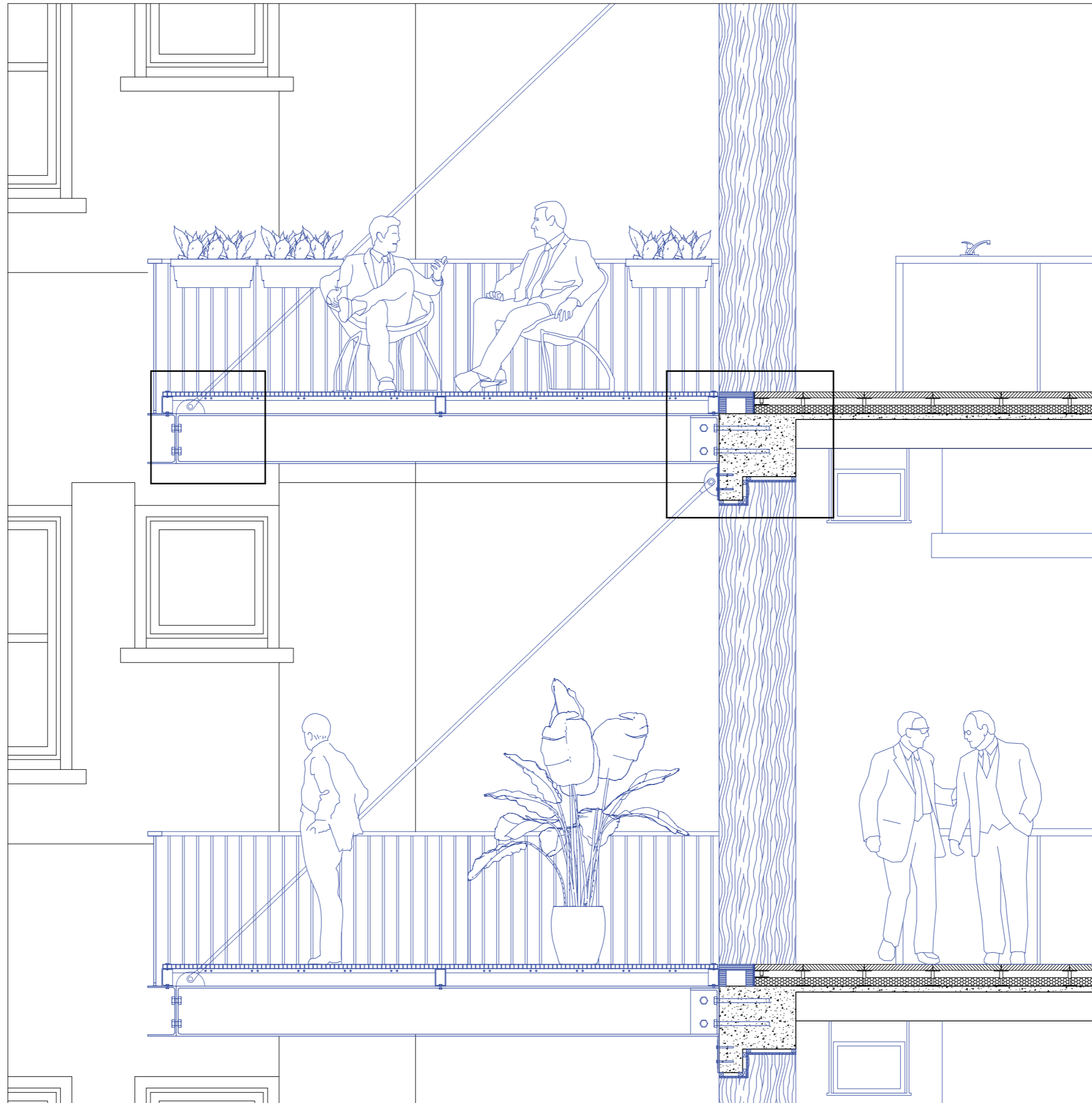


1:100



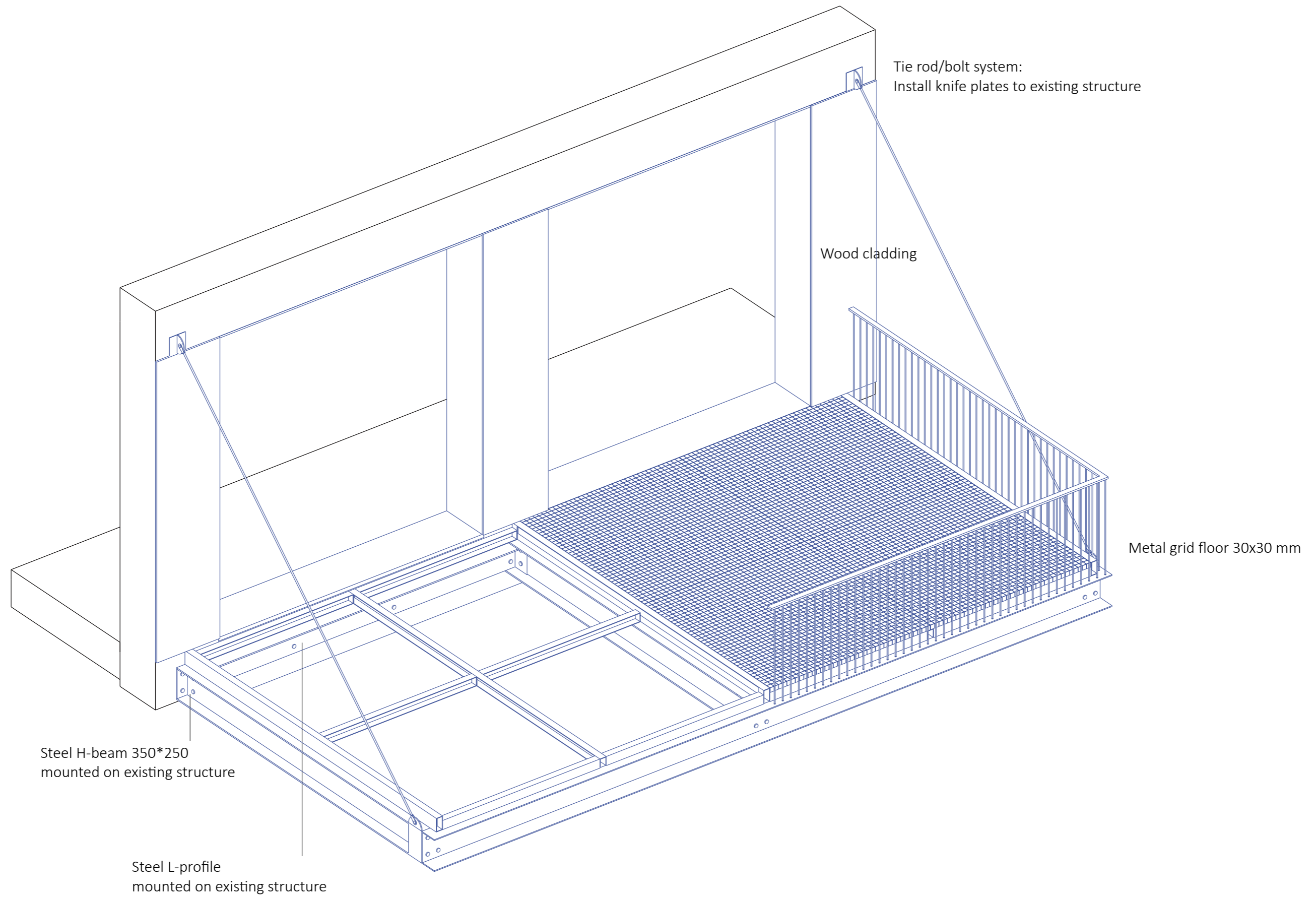


*Office balcony*



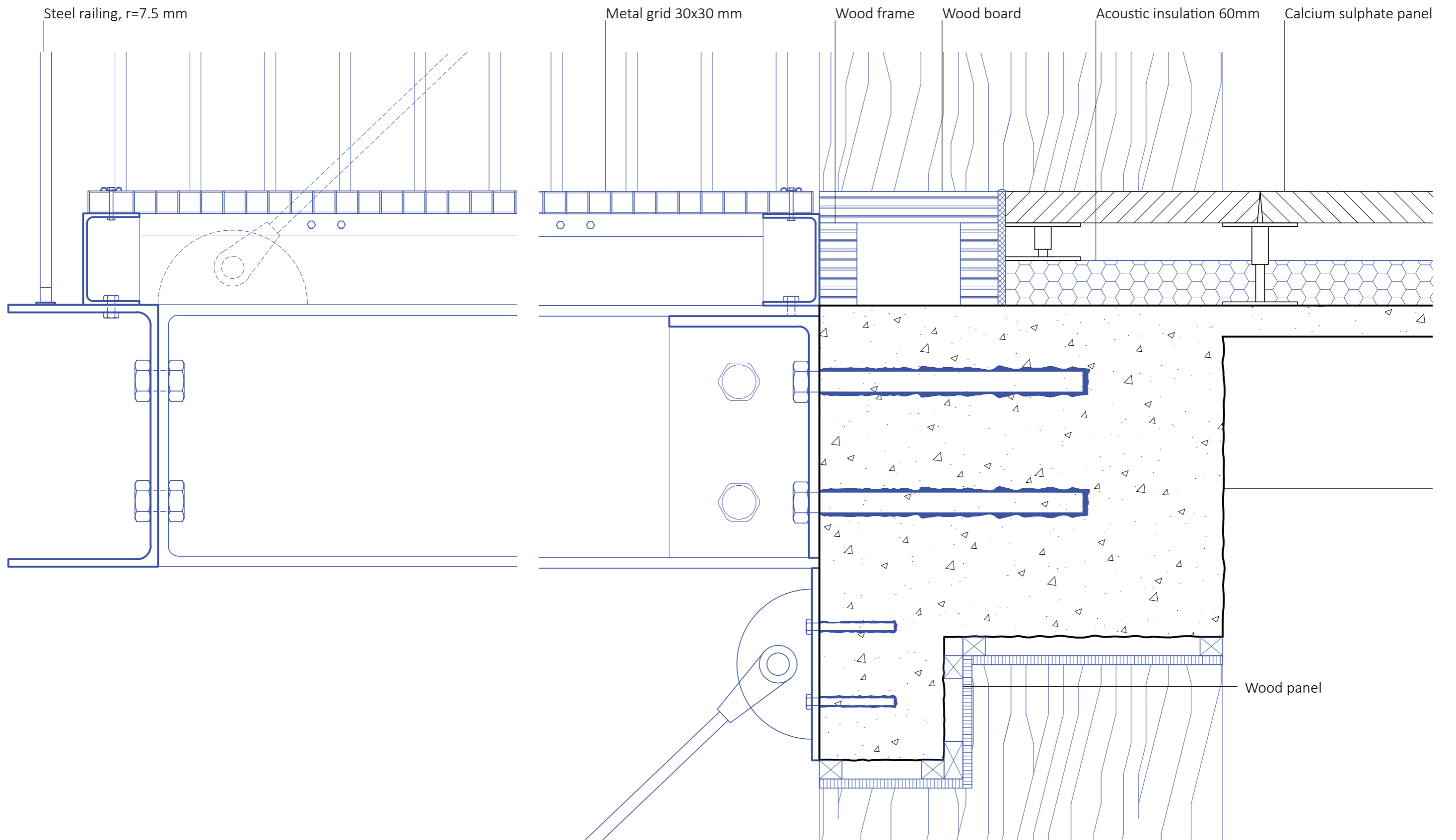
1:30

# Office balcony

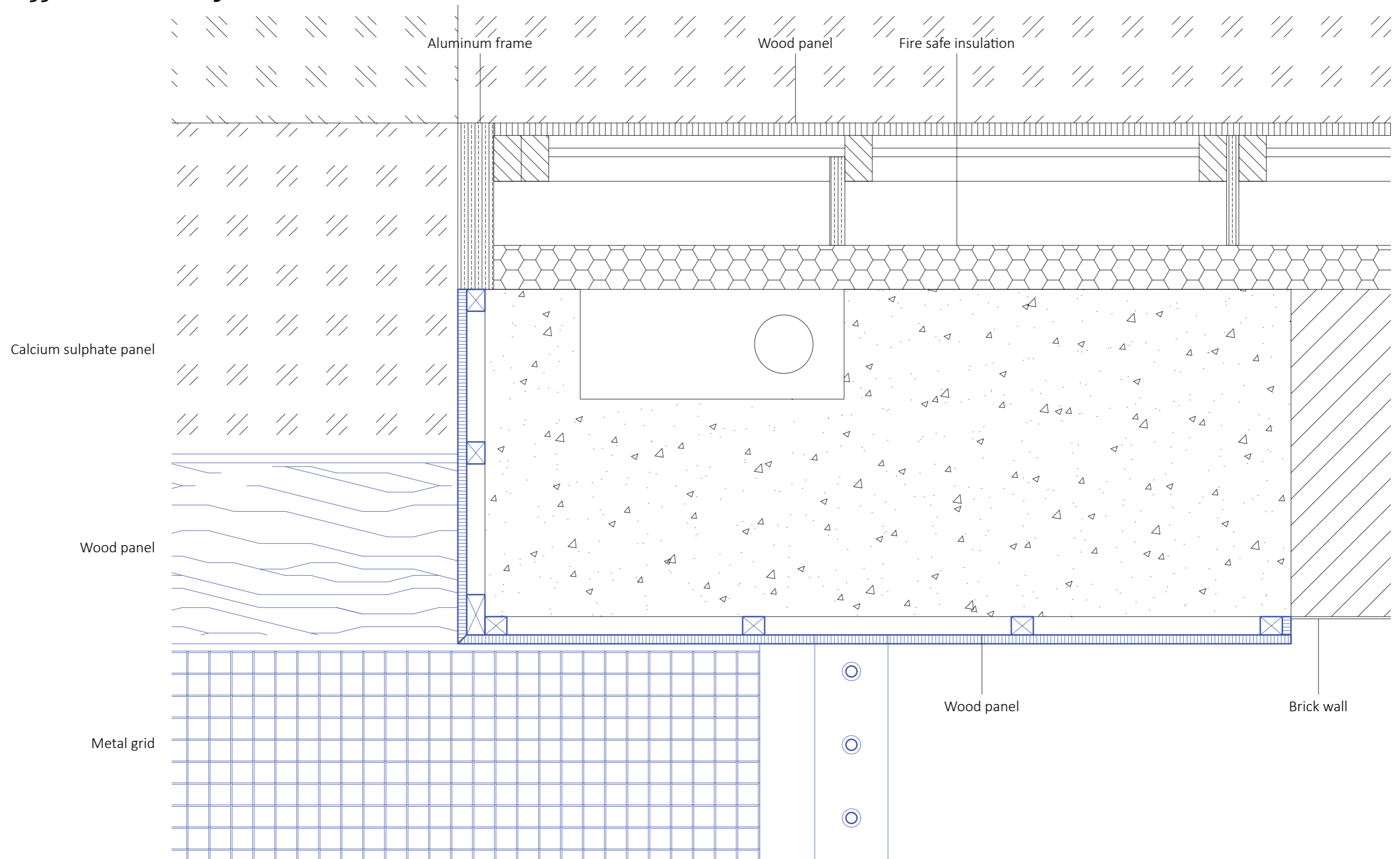




# Office balcony



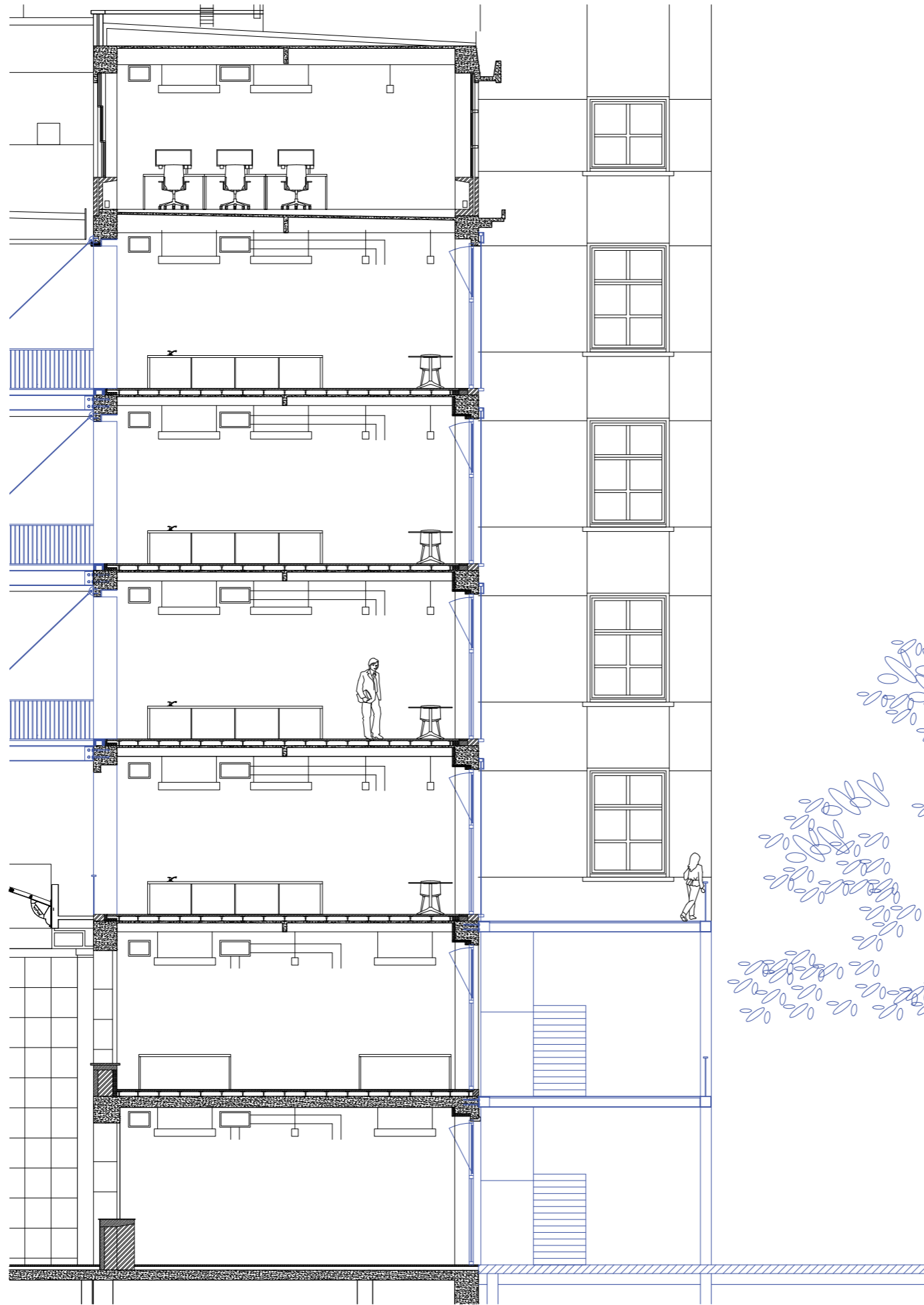
# Office balcony



1:5

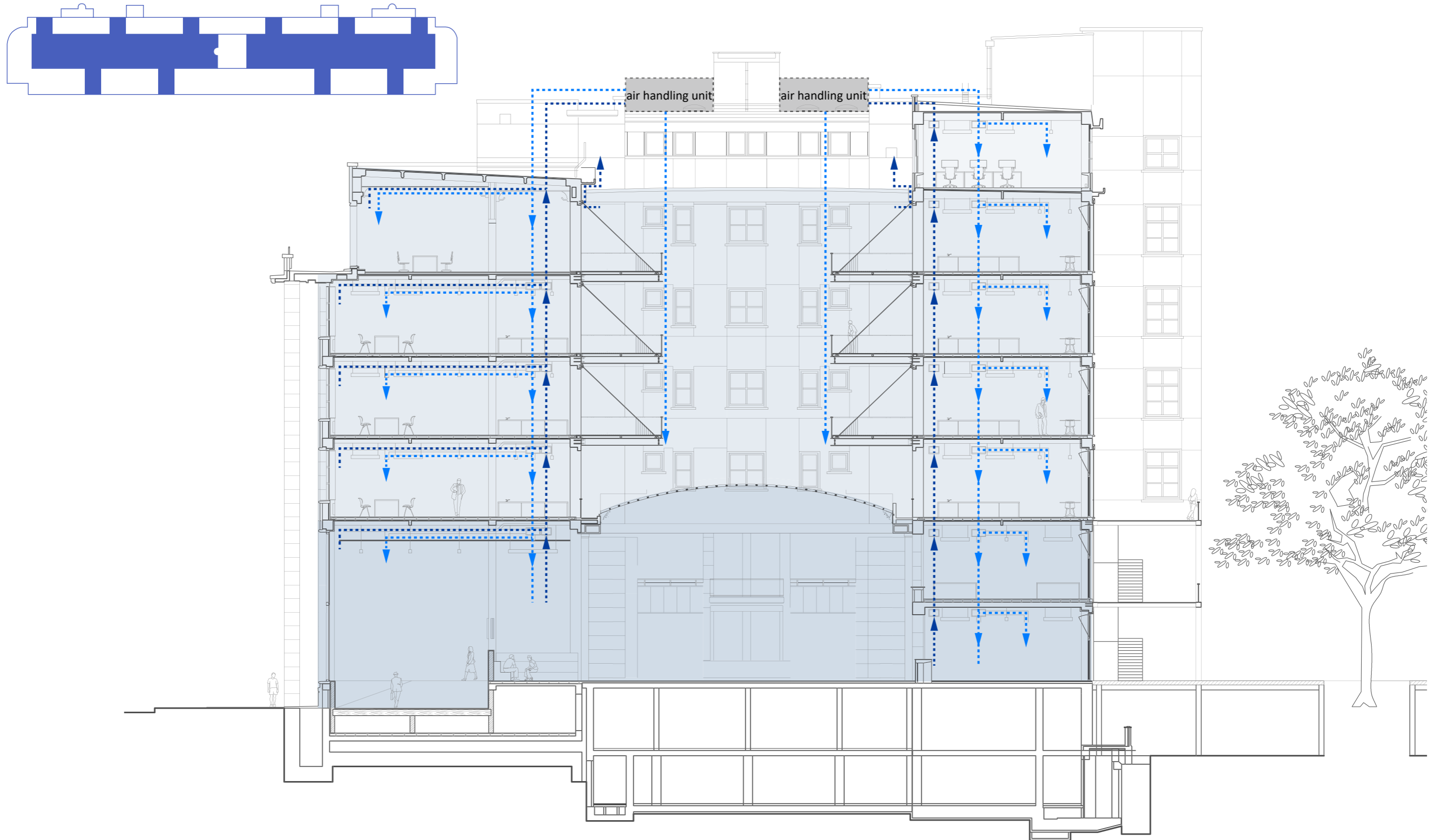


*Courtyard  
Facade*



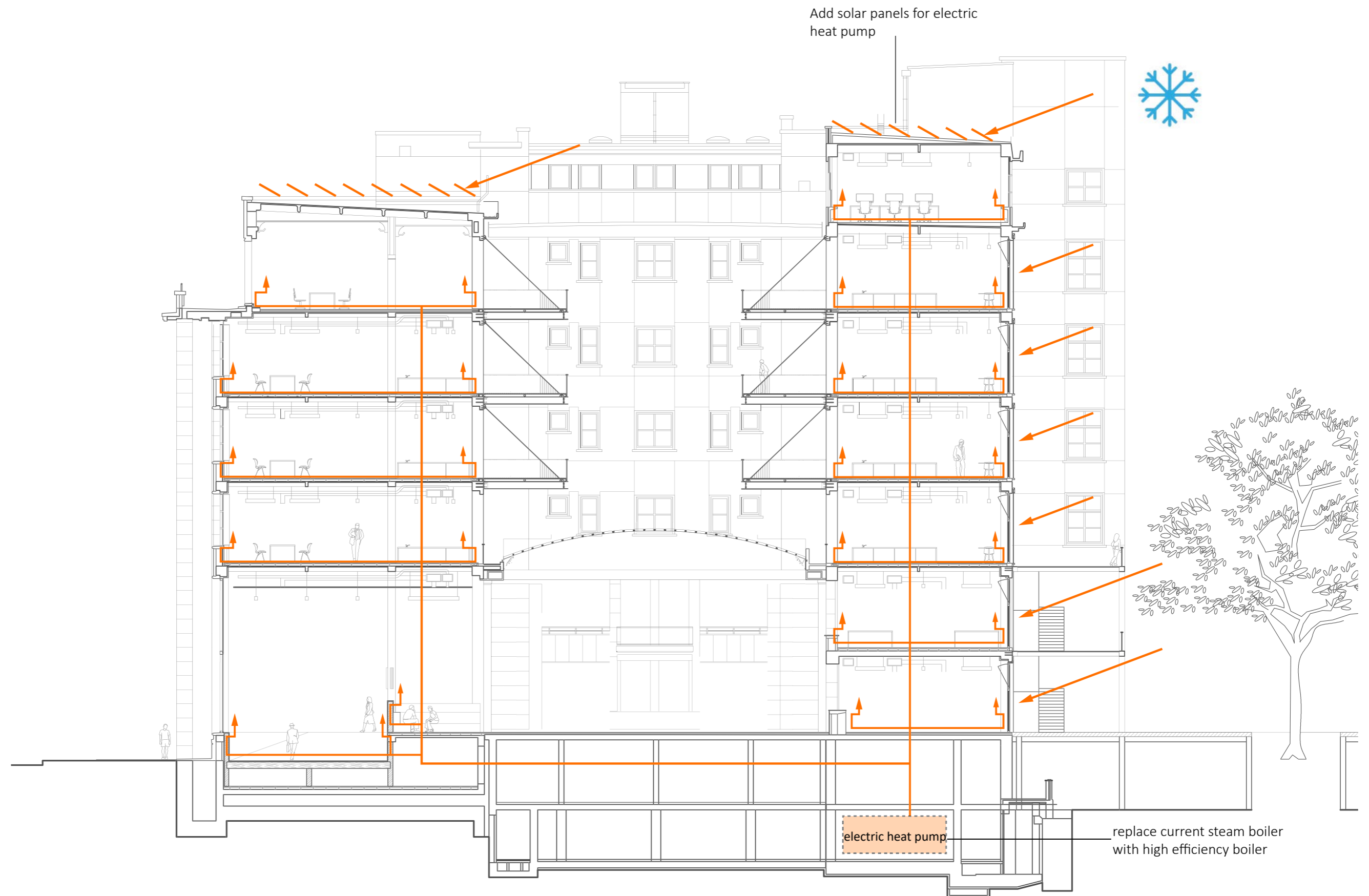
1:100

# Mechanical Ventilation- glasshouse

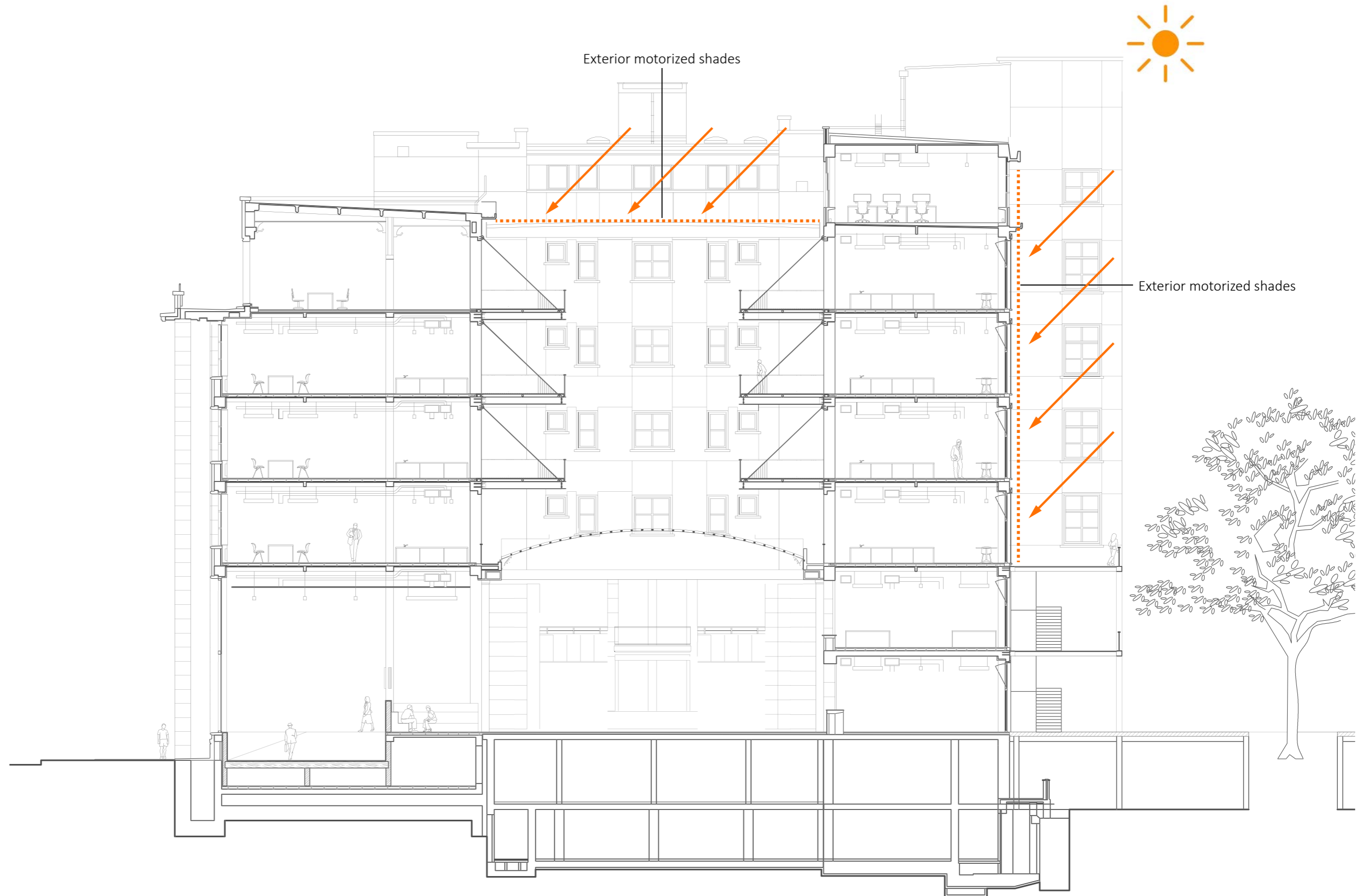




# Heating system-winter



# Summer shading





*Conclusion*

