

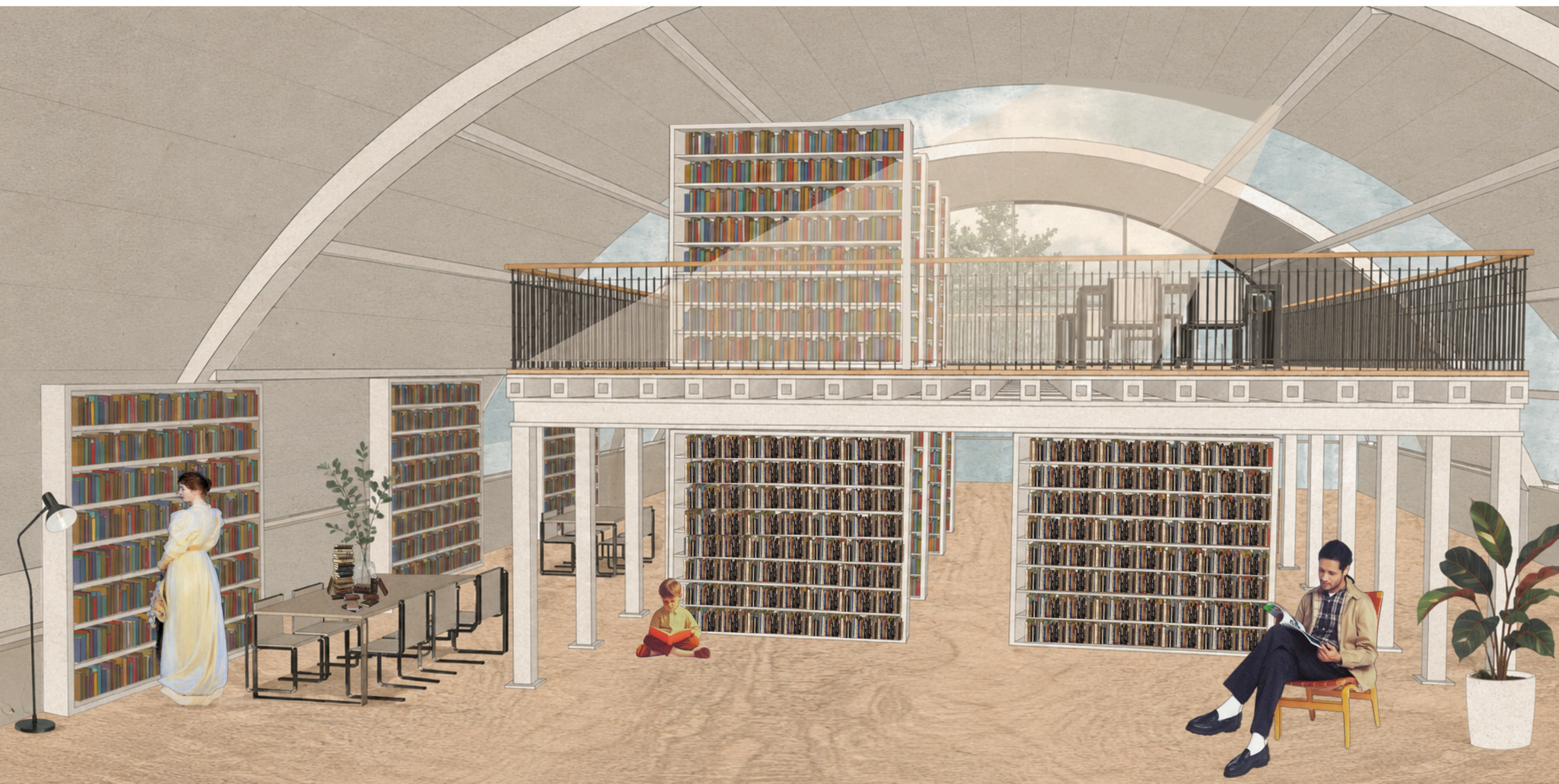
Nicosia National Library

today and future



What is a library in the 21st century?

In our project, the library becomes a civic landscape rather than a storage. An open and flexible framework for knowledge, interaction, and collective memory.





Morphology Of The City

Scale 1 : 10000
City Level Analysis

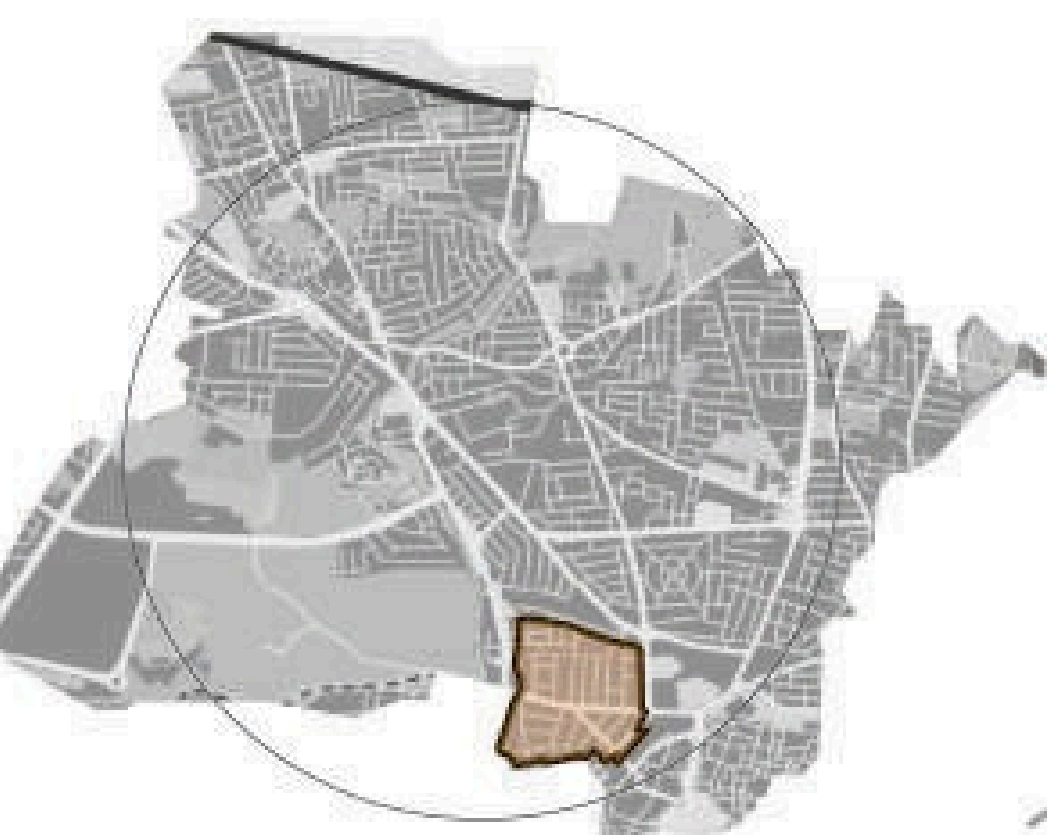
Northern Nicosia, the capital of Northern Cyprus, is the northern half of Europe's last divided city. It combines **historic layers** Ottoman, Venetian, and British with landmarks like the Selimiye Mosque and Büyük Han. Today, it functions as a **cultural and administrative hub**, shaped by its **unique geopolitical context**.



Lefkoşa Municipality (North Nicosia) is the **administrative center** of Northern Cyprus, located in the heart of the island. It is surrounded by **historic neighborhoods**.



Köşklüçiftlik is a **residential and administrative hub**, strategically positioned near the city's cultural and political core, located at coordinates (35.18306°N, 33.35556°E) in North Nicosia, Cyprus, and sits at an elevation of roughly 160-170 meters above sea level.



- Administrative boundaries - - -
- Neighborhood Border ———
- Built surfaces ———
- Pedieos River ———
- Site area ———

Historical Layers & Civic Identity

Scale 1 : 10000
City Level Analysis

BYZANTINE GREEKS TOOK CONTROL

MEDIEVAL PERIOD

VENETIAN RULE

OTTOMAN PERIOD

BRITISH RULE

MODERN AREA

2500 BC

7th CENTURY

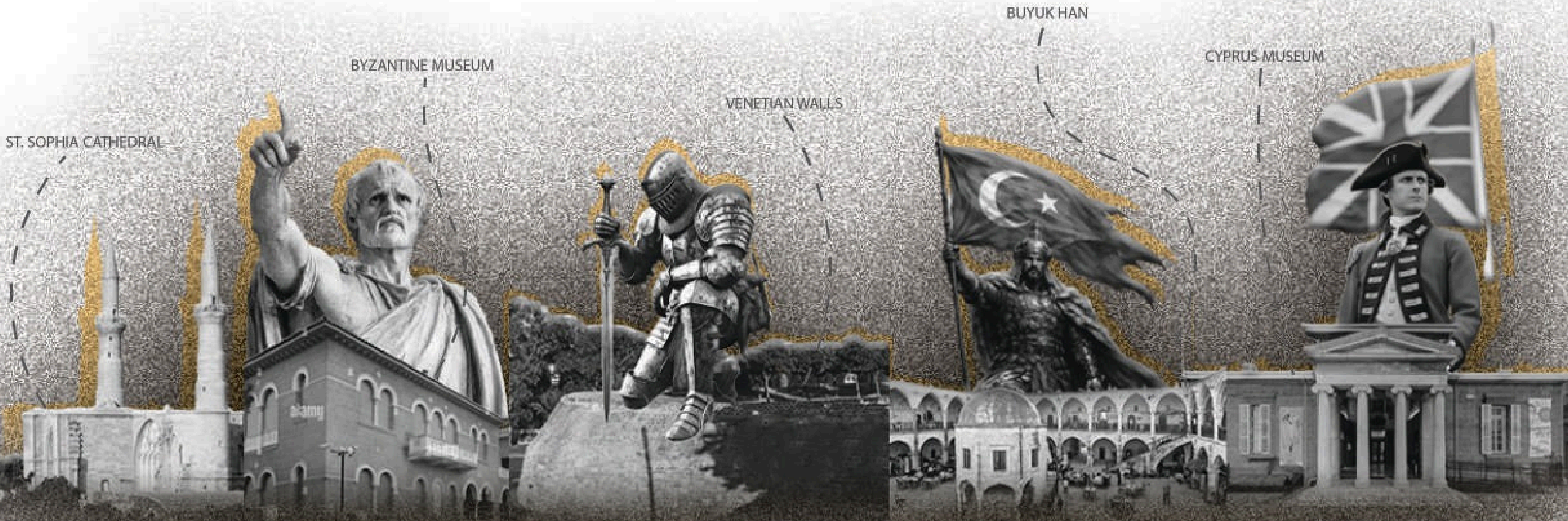
1187

1489

1570

1878

1960



1
MEVLEVI TEKKE MUSEUM
Historic dervish lodge and cultural landmark of Ottoman Nicosia



1930



1940



2
BUYUK HAN
16th-century Ottoman caravanserai and major historic landmark



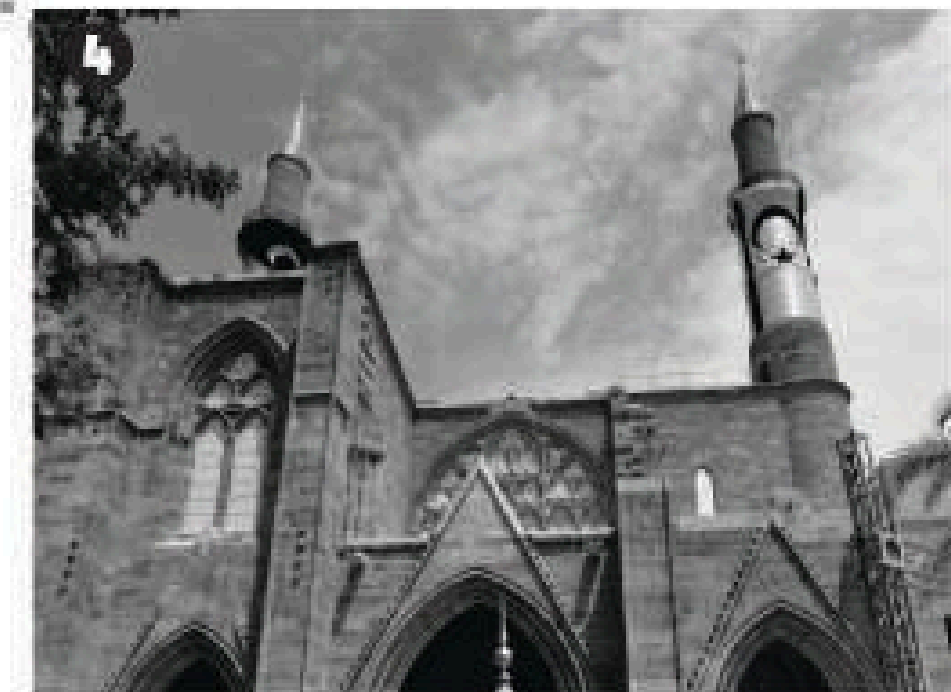
3
KYRENIA GATE
Northern entrance of the Venetian Walls and a historic gateway to the walled city



1967



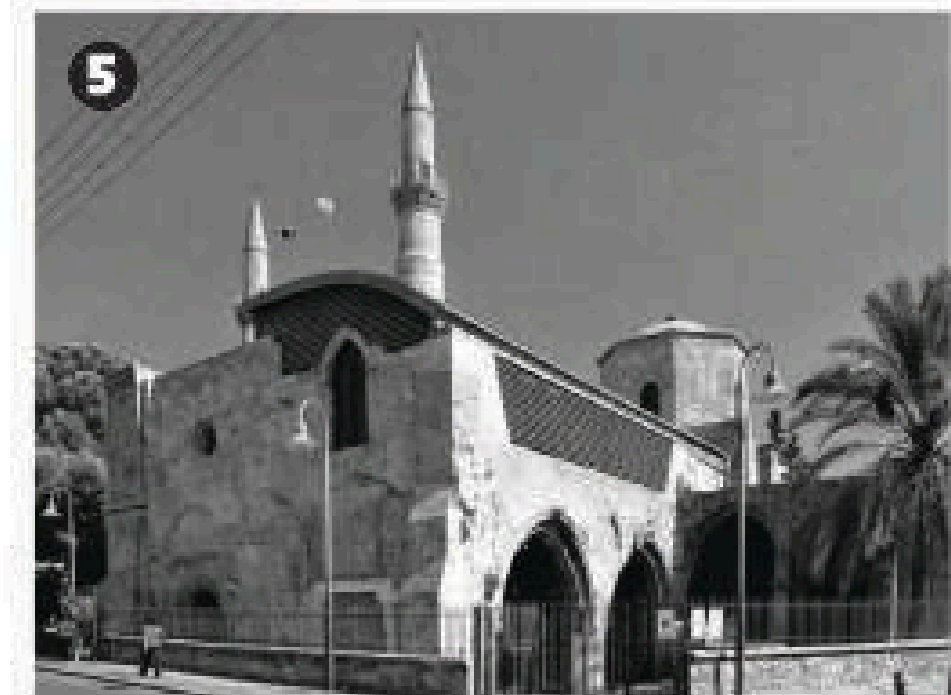
1987



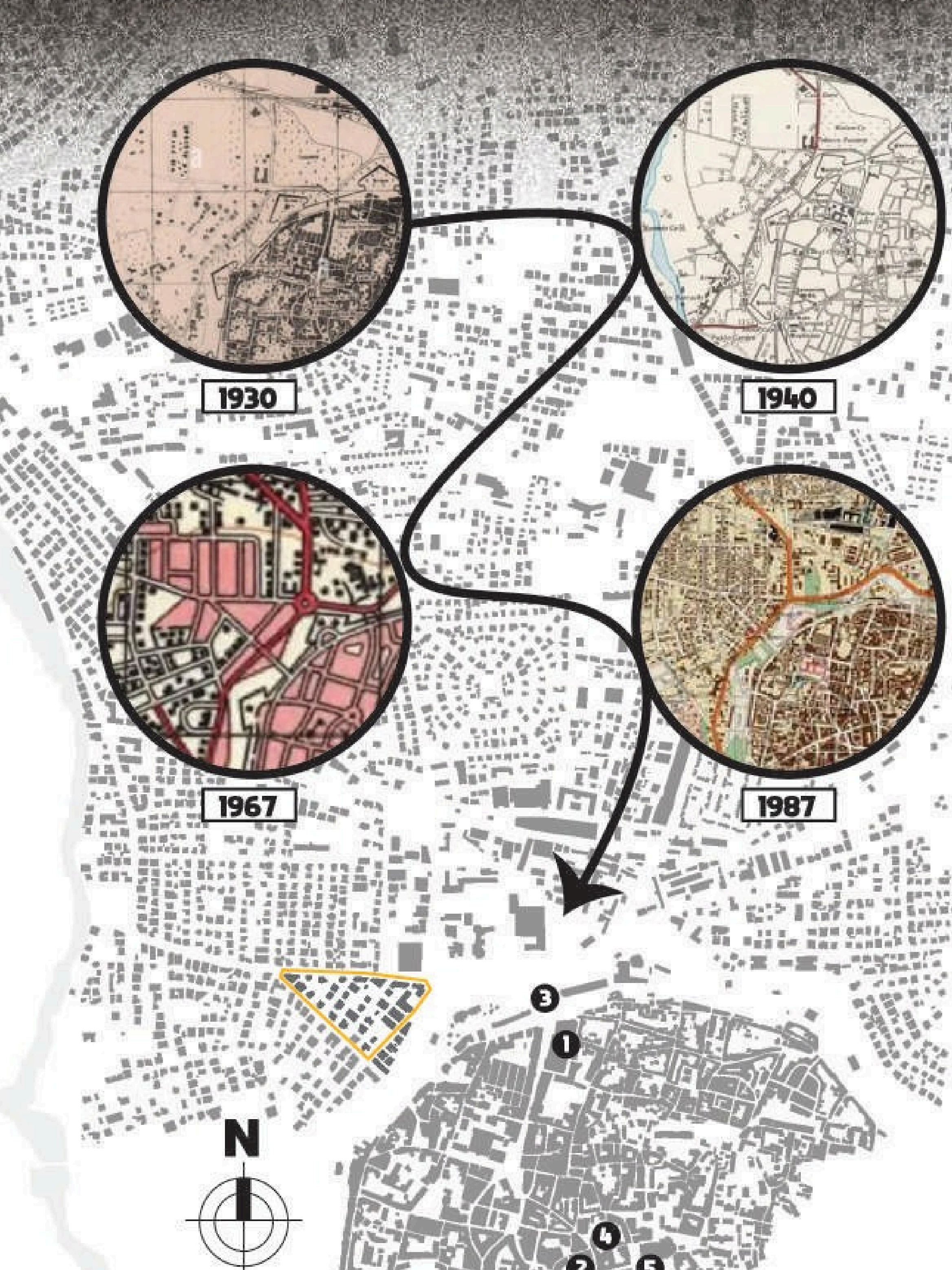
4
SELI MIYE MOSQUE
Former Gothic cathedral (13th century), the main landmark of the historic city



5
ARABAHMET MOSQUE
Historic Ottoman mosque located in the Arabahmet quarter of the walled city

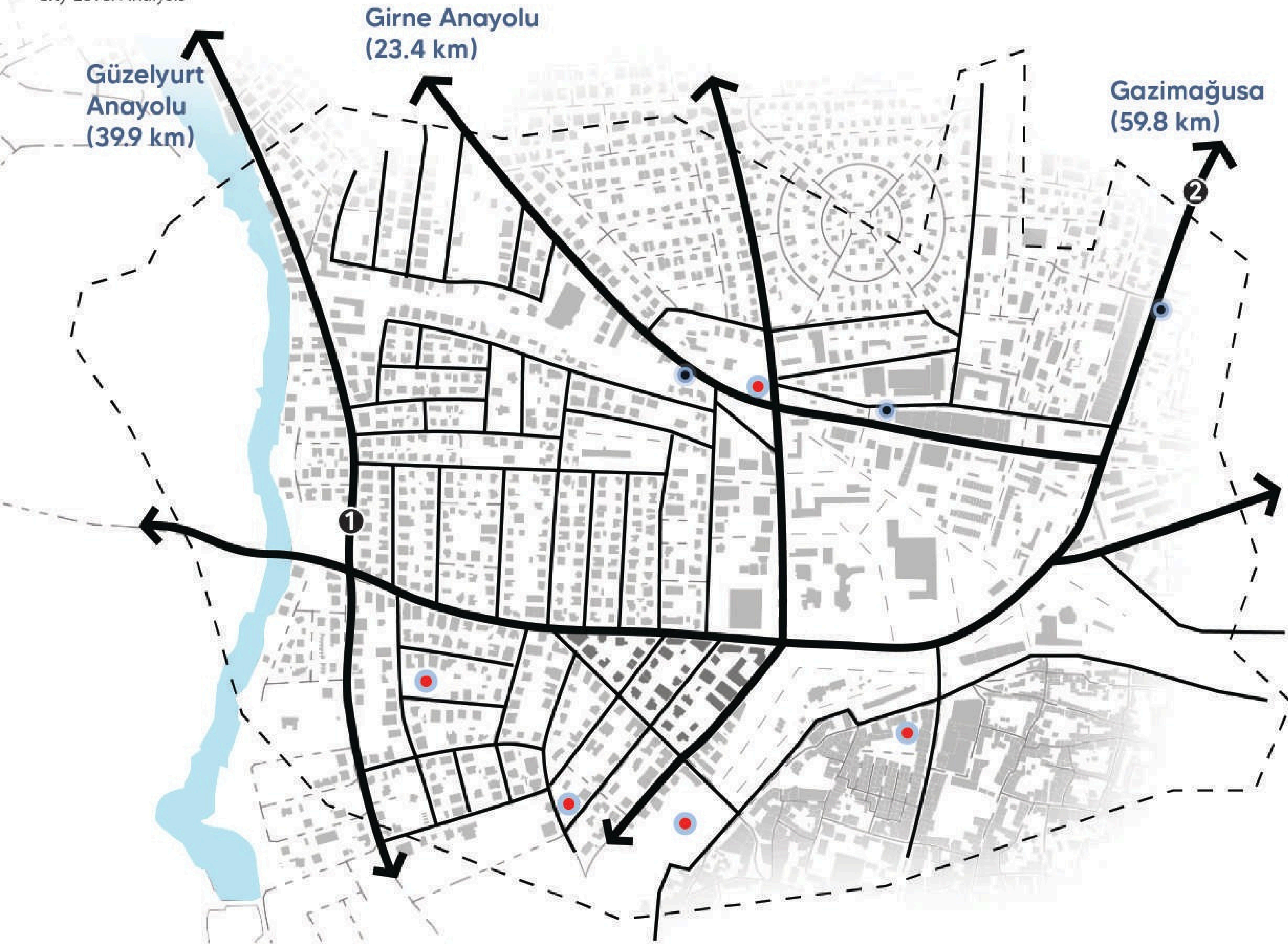


5
BEDESTEN
Historic covered market and former church, one of the oldest commercial landmarks in Nicosia



Urban Mobility & Accessibility

Scale 1 : 5000
City Level Analysis



HIGHWAYS & REGIONAL ROADS:

Lefkoşa is connected to other major cities (Kyrenia, Famagusta, Morphou) via arterial highways.

LOCAL ROADS:

The municipality manages dense urban streets, including Dereboyu (Mehmet Akif Avenue), which is a key commercial corridor.

ONGOING WORKS:

Current projects include sewage pipeline renewal and resurfacing, which affect traffic flow and road availability.

LEGEND STREET PATTERN

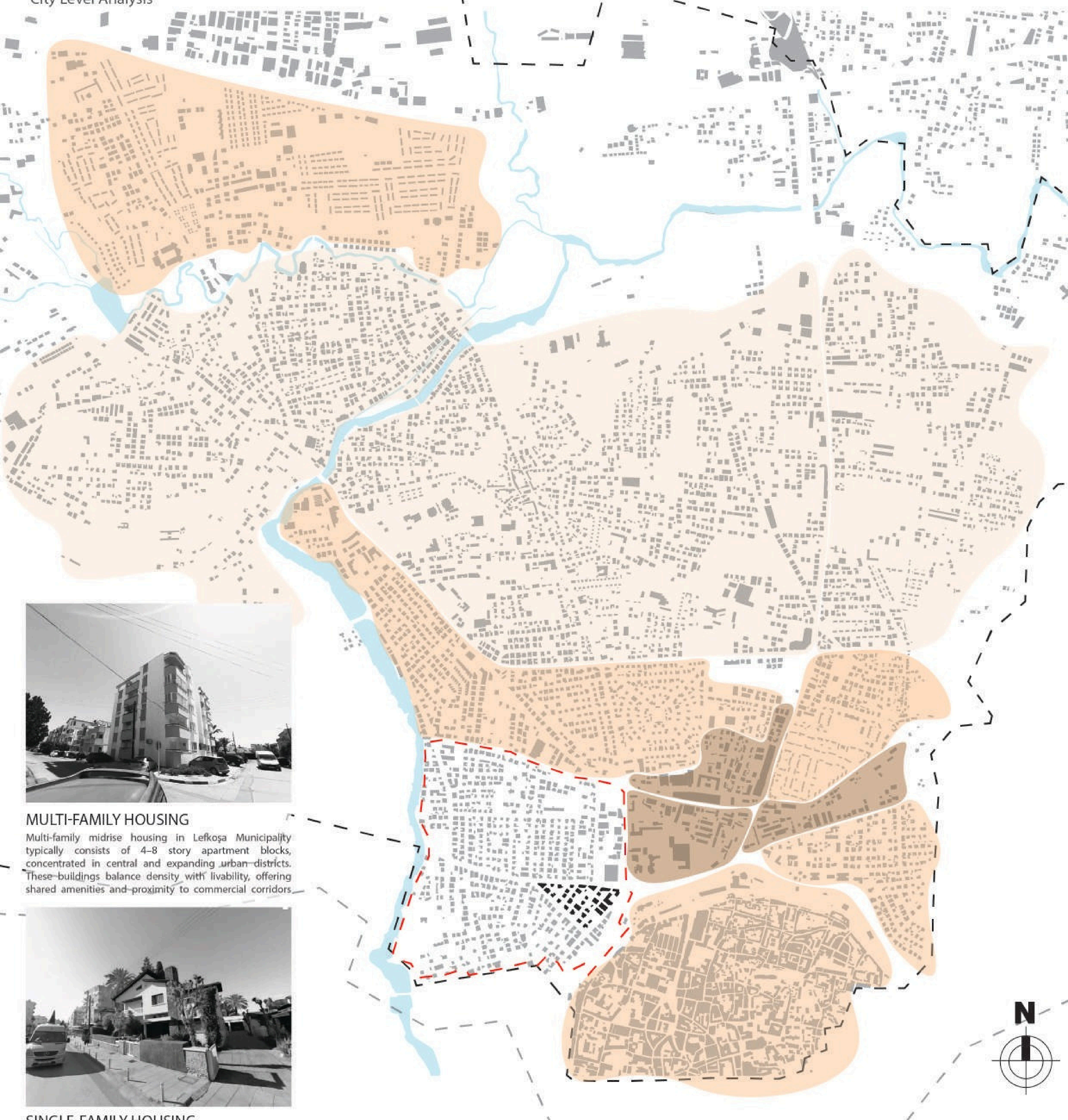
- Primary Road
- Secondary Road
- Tertiary Road
- Bus Station
- Parking Place
- Water



Man-Made Environment & Urban Fabric

Scale 1 : 5000
City Level Analysis

FUNCTIONAL ZONING



MULTI-FAMILY HOUSING

Multi-family midrise housing in Lefkoşa Municipality typically consists of 4-8 story apartment blocks, concentrated in central and expanding urban districts. These buildings balance density with livability, offering shared amenities and proximity to commercial corridors.



SINGLE-FAMILY HOUSING

In Lefkoşa, single-family houses with ground floor +1 are common in suburban and older residential quarters. They are usually built with reinforced concrete frames and masonry infill, featuring gable or hipped tiled roofs for climate adaptation. Exterior walls are typically 20-30 cm thick for insulation and seismic safety, while interior partitions are lighter (10-15 cm). These homes often include balconies, courtyards, and gardens, blending modern construction with traditional Cypriot residential character.

- 3/5 Mid Rise Residential
- 3/5 Low Rise Residential
- Commercial/Institutional
- Neighborhood Border
- Administrative Boundaries

Man-Made Environment & Urban Fabric

Scale 1 : 3500
Neighborhood Level Analysis

FUNCTIONAL ZONING



Lynch Analysis

Scale 1 : 3500
Neighborhood Level Analysis



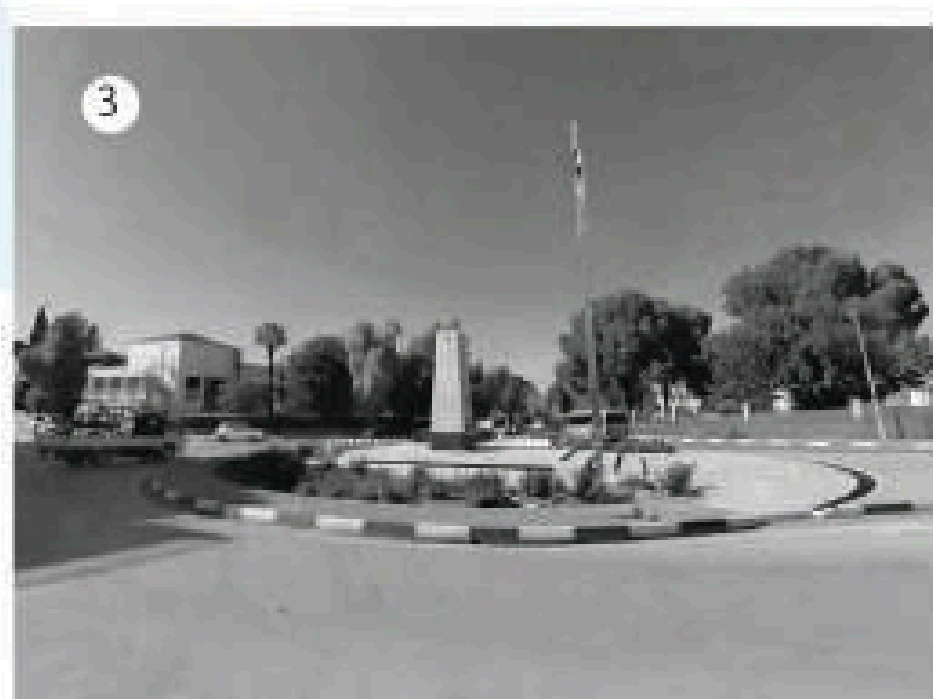
- Major Roads
- Second Roads
- Physical Edges
- Permeability
- Nodes
- Landmarks



1 KYRENIA GATE



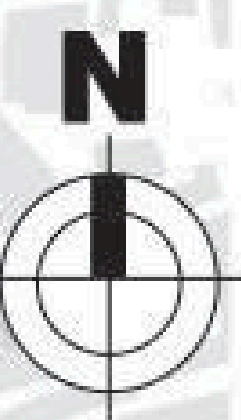
2 KKTC Cumhuriyet Meclisi



3 Şehitler Myd



4 Samanbahçe Evleri



Ecological & Social Analysis

Scale 1 : 2000
Neighborhood Level Analysis



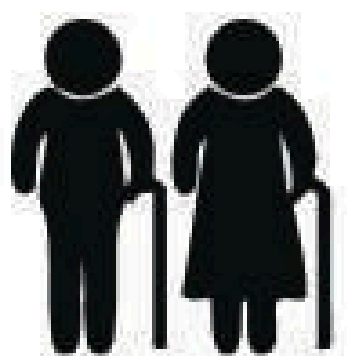
Demography



Population In Lefkosa
75.467



Male Percentage
53.9%



Median Age In Lefkosa
46.1



Female Percentage
46.1%

Main Users



Locals



Workers



Students



Tourists

Vegetation

Limited Vegetation
Small Green Areas
Astreets Trees

Fauna

Small Urban Fauna
(birds , stay cats,
insects)

Climat

Hot Climate Need For
Shade Mediterranean
Climate

Human flows

Locals roads: Osmanpasa ,
Bedreftin Demirel, Girne
Ave (kyrenia gates...)

Social Needs

More green public
spaces pedestrian
areas, community
Spaces

Activities

Mix of turkish , cypriots,
students (lefakosa turk
lises) families and
workers

Population

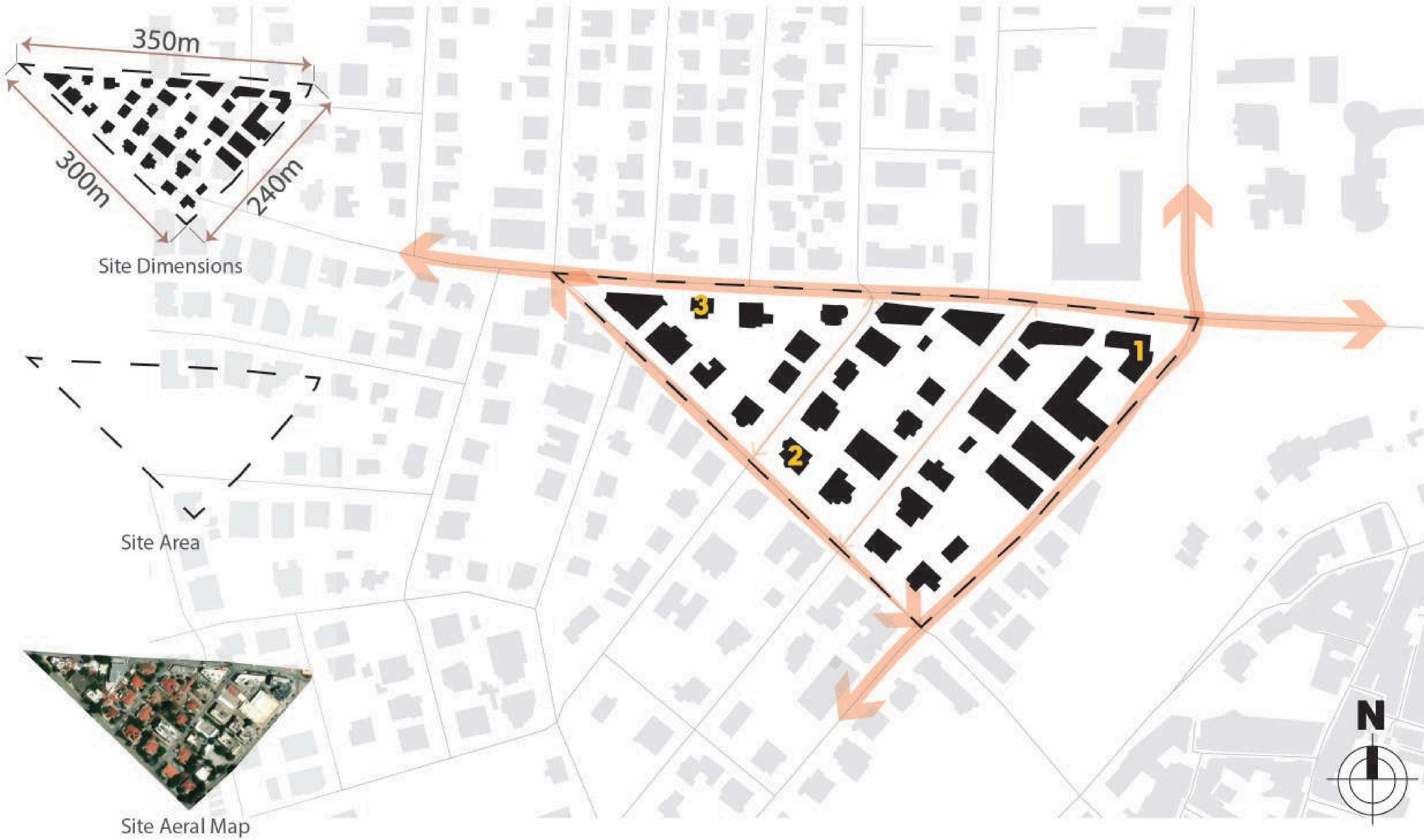
Mix of turkish , cypriots,
students (lefakosa turk
lises) families and
workers

Social interaction

Kyrenia Gates , Dervis Pasa
Museum, Selimeye Mosque,
Local coffee

Site Regulations & Physical Conditions

Scale 1 : 2000
Neighborhood Level Analysis



Based on the analysis of the site, the primary setback along the main orad is defined by a 7m distance from the building facade to the curb, establishing a clear "Building Alignment Zone" that maintains a consistent urban streetscape.



1 Mixed use building



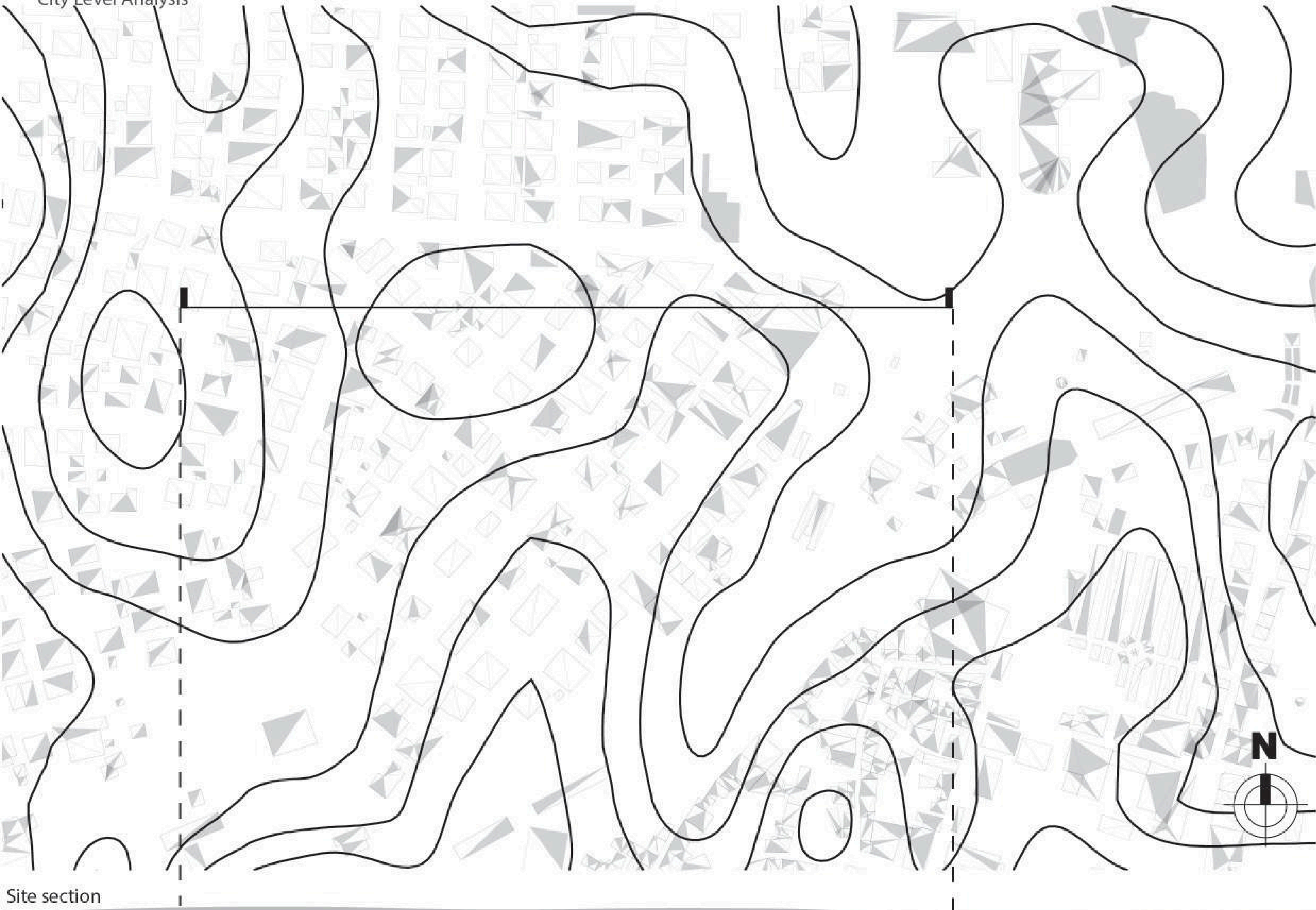
2 Administrative use



3 Commercial use

Topography & SWOT Analysis

Scale 1 : 3500
City Level Analysis



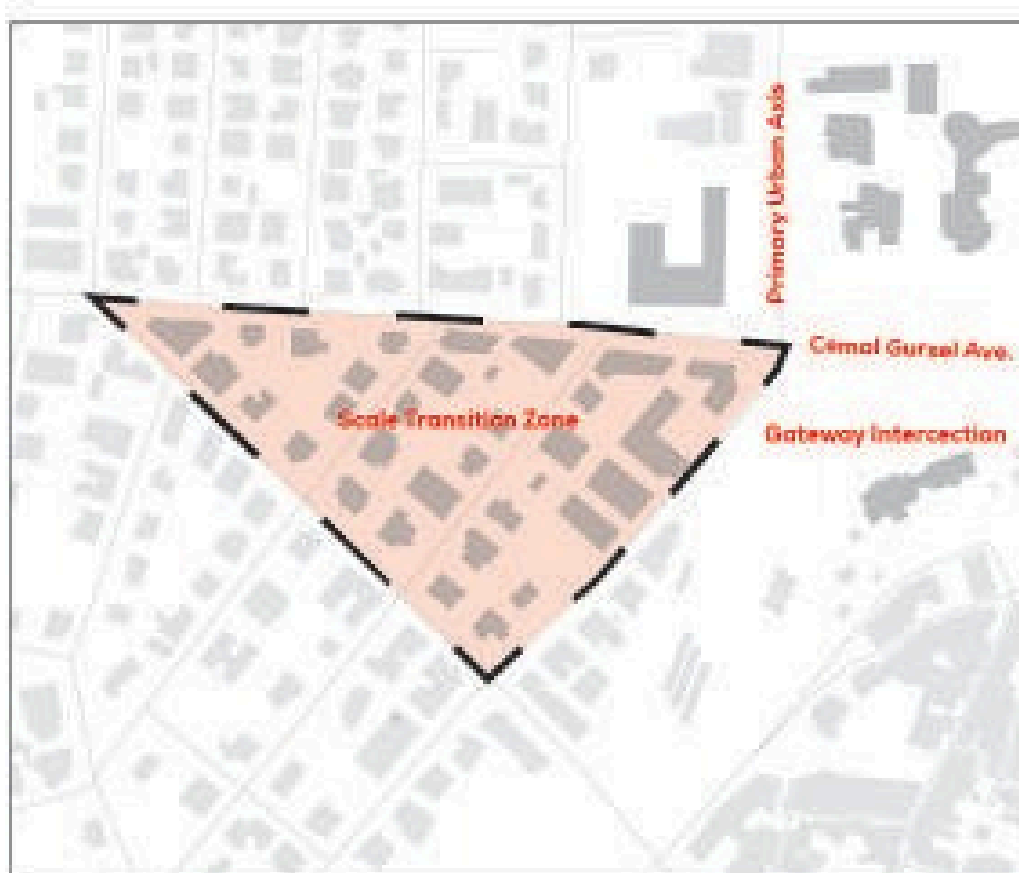
S

Strategic Location

- Located at major urban intersection
- High visibility from multiple directions

Historic Proximity

- Close to Girne Kapsi (symbolic landmark)
- Strong cultural identity



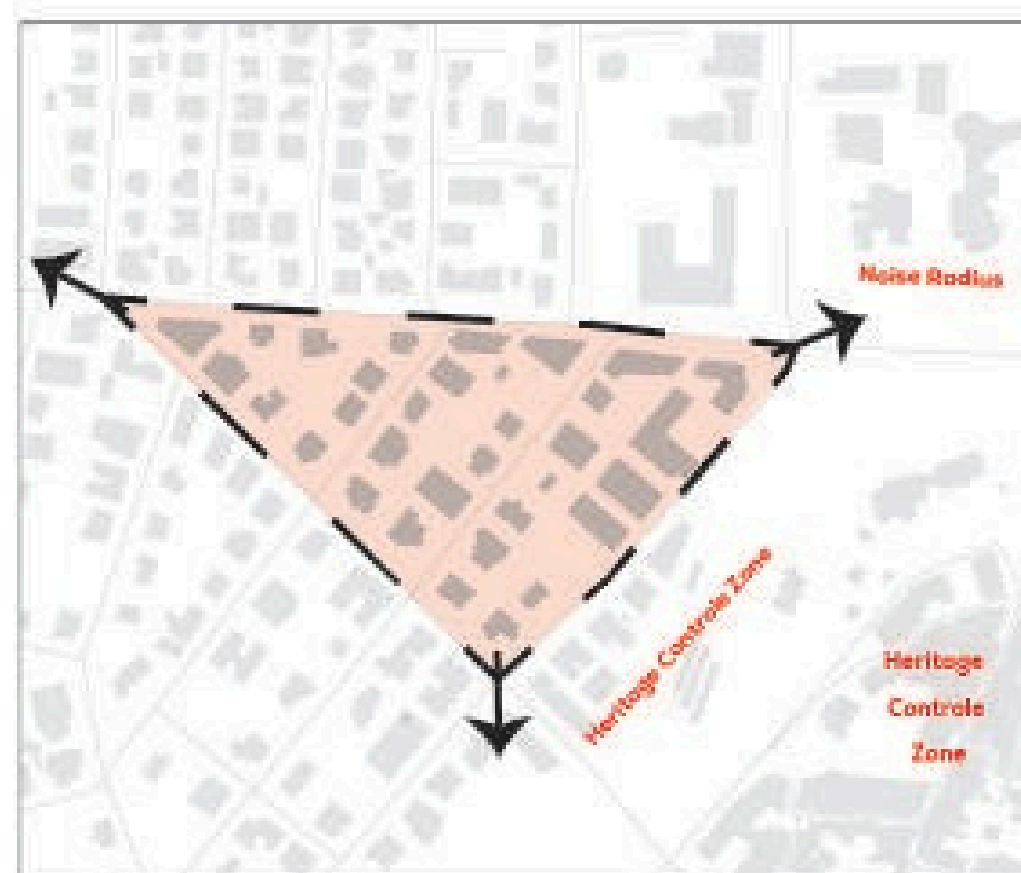
W

Triangular Geometry

- Irregular form complicates planning
- Harder to organize internal circulation

Traffic Pressure

- Roundabout creates noise
- Heavy vehicular flow



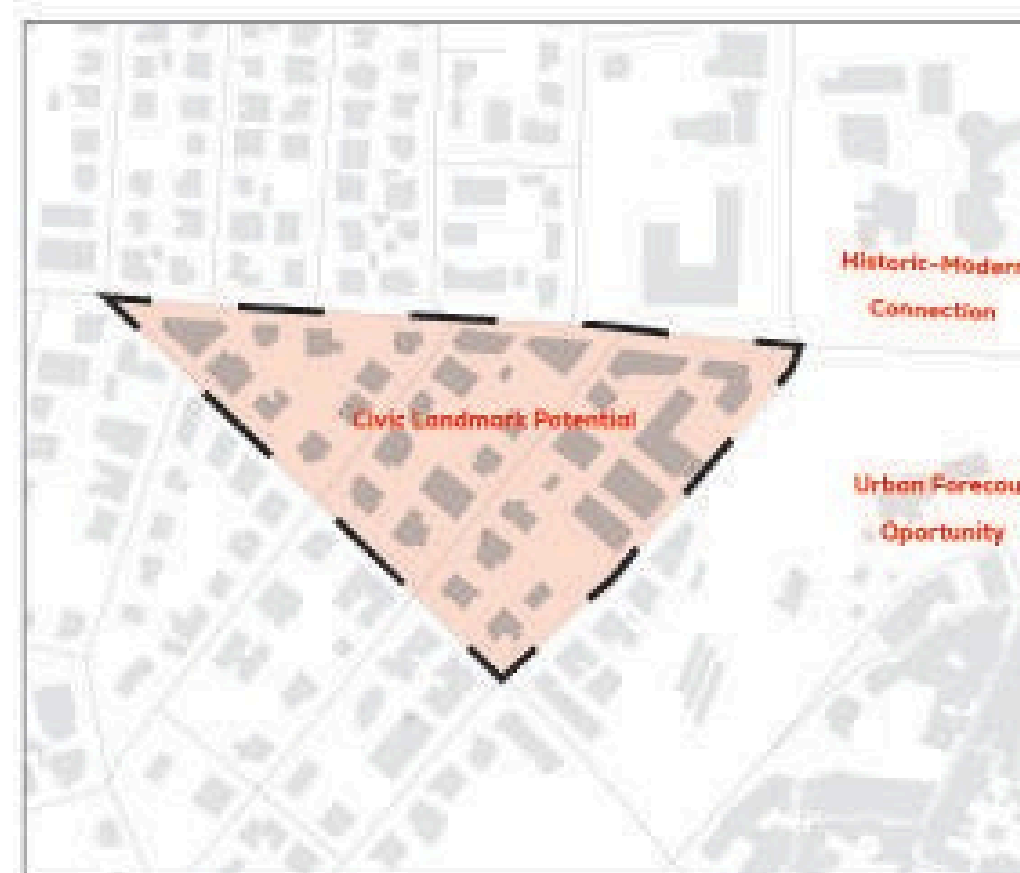
O

Create Civic Landmark

- Reinforce entrance to historic city
- Strengthen urban identity

Public Space Creation

- Potential plaza facing gate
- Transitional urban forecourt



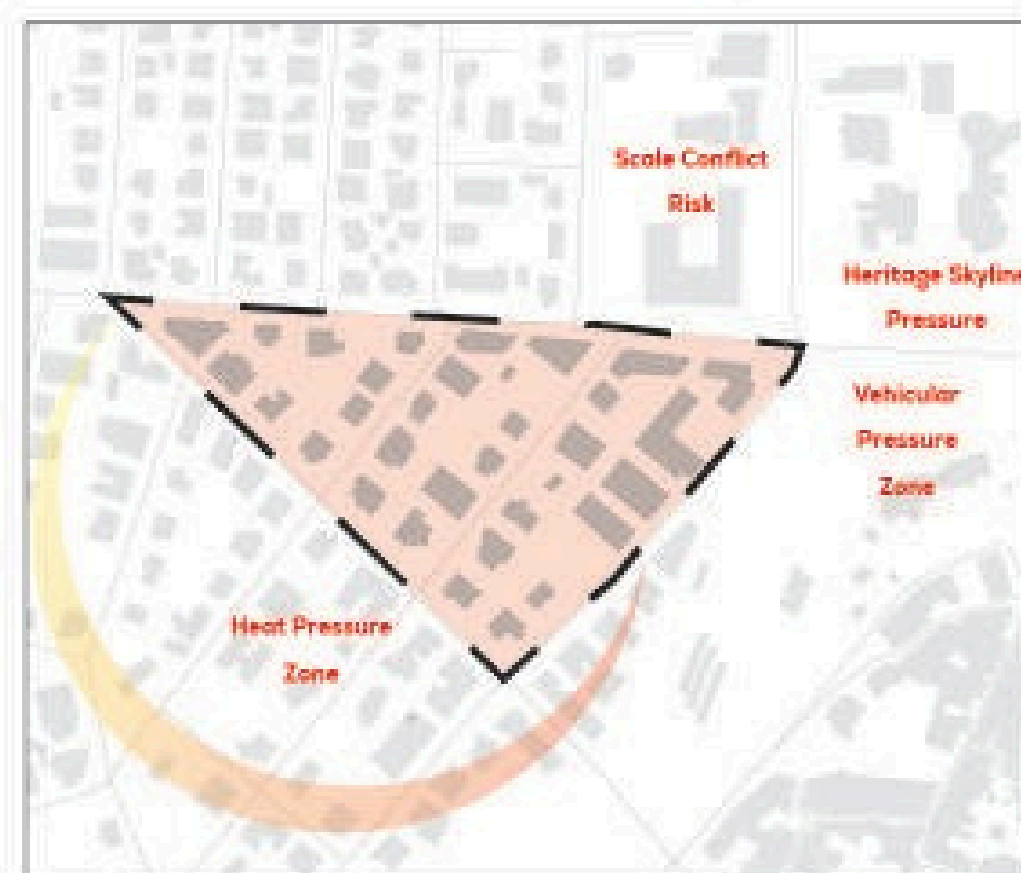
T

Climate Impact

- Harsh sun exposure
- Heat island effect from asphalt roads

Overpowering Historic Context

- Excessive height or massing
- Disrupting skyline near gate



ARCHITECTURAL PROGRAM

A. CIVIC ENTRY + PUBLIC FORUM — 720m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TYPOLOGY
A	A1	ENTRANCE LOBBY	2	175x2=350	info desk, seating, digital screen	2.5(140)	A2, A3	
A	A2	GALLERY	2	250	exhibition panels	3(50)	A1, A3	
A	A3	BOOKSHOP	1	120	book displays, sales counter, shelving	4 staff	A1, A2, A5	

B. GENERAL COLLECTIONS + READING — 3270 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TYPOLOGY
B	B1	OPEN STACKS	4	900	open shelving stacks	(200)	B2, B3, J2	
B	B2	QUIET READING HALL	4	640	reading tables	4(160)	B1, B3, J2	
B	B3	CASUAL READING ZONES	1	300	lounge seating	3(100)	B1, B2, J2	
B	B4	INDIVIDUAL STUDY	20	20*80=1600	desks	8(20)	B5, B6, J2	
B	B5	GROUP STUDY ROOM	1	1000	tables screens	4(250)	B4, B6, J2	
B	B6	PERIODICALS AREA	1	120	display racks reading seats	4(30)	B4, B5, J2	
B	B7	REFERENCE HELP DESK	1	30	desk	staff (2)	B4, B5, B6, J2	
B	B8	NEW ARRIVALS	1	120	shelves	4(30)	B4, B5, B6, J2	

C. RESEARCH + SPECIAL COLLECTIONS — 990 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TYPOLOGY
C	C1	RESEARCH READING ROOM	1	420	research desks	6(70)	C2	
C	C2	SPECIAL COLLECTION ROOM	1	210	consultation tables	6(35)	C1	
C	C3	SEMINAR ROOM	1	180	meeting tables AV	3(60)	C1	
C	C4	CURATOR OFFICE	2	15*2=30	desk	staff(3)	A1	
C	C5	WAITING/ DOCUMENT CONTROL	1	150	seating	3(40)	A1	

J. Public Amenities — 5250m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TYPOLOGY
J	J1	PUBLIC WC BLOCK			toilets, sinks		A1, F2	
J	J2	PRAYER	1	60	seating, carpeted floor	3(20)	A3, B2	
J	J3	FIRST AID ROOM	1	40	medical bed, cabinet, sink	10(4)	A1	
J	J4	FAMILY BABY CARE	1	60	seating, changing table	4(15)	D1	
J	J5	CAFE	1	40	service counter, coffee equipment	2(20)	A3, F2	
J	J6	CLEANING/ JANITOR CLOSET	1	30			J1	
J	J7	PARKING	1	4900			A1	

ARCHITECTURAL PROGRAM

D. CHILDREN + YOUTH LIBRARY — 800 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TPOLOGY
D	D1	CHILDREN READING AREA	1	260	low book shelving, reading carpets	3(80)	D2	
D	D2	STORYTELLING ZONE	1	140	soft seating, storytelling stage	2(70)	D1	
D	D3	TEEN STUDY ZONE	1	180	desks, charging stations	4(45)	B	
D	D4	PARENT SITTING	1	70	lounge seating	3(20)	D1	
D	D5	ACTIVITY ZONE	1	100	workshop tables, craft storage	4(25)	D2	
D	D6	STORAGE	1	50	storage		D1	

E. DIGITAL MEDIA LABS — 900 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TPOLOGY
E	E1	COMPUTER COMMONS	1	280	computer workstations	5.5(55)	E2,E3, E5,B7	
E	E2	MEDIA LIBRARY	1	140	digital viewing terminals	4(35)	E1,E3	
E	E3	TRAINING ROOMS	2	2*120 =240	AV equipment, projection screen	3(80)	E1,E2,E5	
E	E4	MAKER SPACE	1	140	workshop benches, fabrication tools	5(28)	E3,E5	
E	E5	EQUIPMENT STORAGE	1	100	equipment storage		E1,E3, E4	

F. EXHIBITION + CONFERENCE — 1300 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TPOLOGY
F	F1	EXHIBITION GALLERY	1	420	display panels, lighting tracks	2.6(160)	A1, A4, F2, A6	
F	F2	PRE-FUNCTION FOYER	1	120	seating, gathering space	2(60)	F1, F3, A5, J1	
F	F3	CONFERENCE HALL	1	420	stage, projection screen, AV system	2.1(200)	F2, F4, F5, F6, F8, J1	
F	F4	STAGE	1	90	stage lighting		F2, F4, F5, F6, F8, J1	
F	F5	BACKSTAGE	1	80	dressing room	10(8)	F4, F7, J1	
F	F6	AV CONTROL	1	50	control equipment	10(5)	F3, F4, F7	
F	F7	EVENT STORAGE	1	70	storage		F5, F6, F8, I1	
F	F8	SETUP CIRCULATION	1	50	service		F3, F7, I6	

G. ARCHIVES + CONSERVATION — 2050 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TPOLOGY
G	G1	ARCHIVE STORAGE	1	1050	compact shelving, climate control	staff	G2, G3, G6, G7, I2	
G	G2	RARE ARCHIVE VAULT	1	280	secure vault shelving	staff	G1, C2, G6, G7	
G	G3	INTAKE ROOM	1	120	sorting tables	15(8)	G1, C4, I1, I2	
G	G4	RESTORATION LAB	1	220	restoration benches	12(18)	G3, G5, G6, I5	
G	G5	DIGITIZATION STUDIO	1	140	scanners, digitization equipment	10(14)	G4, G6, C4	
G	G6	ARCHIVE WORKROOM	1	90	staff desks	9(10)	G1, G2, G4, G5, G7	
G	G7	ARCHIVE CIRCULATION	1	150	service circulation		G1, G2, G6, I6	

H. Administration — 700 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TPOLOGY
H	H1	DIRECTOR OFFICE	1	25	desk, meeting table, storage	12(2)	H2, H3	
H	H2	ADMIN. OFFICES	8	20*8 =160	desks, computers, filing cabinets	10(16)	H1, H3, H6	
H	H3	MEETING ROOM	1	80	meeting table, AV screen	4(20)	H1, H2	
H	H4	STAFF LOUNGE	1	120	sofas, kitchenette	4(30)	H2, H5	
H	H5	STAFF LOCKERS	1	60	lockers, benches		H4, I6	
H	H6	SHARED WORKPLACE	1	150	workstations, printers	8(18)	H2	
H	H7	ARCHIVE ADMIN.OFFICE	2	20	desks, storage	10(4)		
H	H8	ADMIN. CIRCULATION	1	65	shelves, filing storage		H2, H6	

I. Building Support + Logistics + Plant — 900 m²

GROUP	CODE	SPACE	NO.	AREA m ²	FACILITIES	m ² /PER	SUPPORT AREAS	TPOLOGY
I	I1	LOADING/ RECEIVING DOCK	1	180	loading equipment, carts		G3, F7, I2	
I	I2	SORTING/ PROCESSING ROOM	1	150	sorting tables, carts	15(10)	I1, G1	
I	I3	GENERAL STORAGE	1	150	shelving		I2, E5	
I	I4	WASTE/ RECYCLING ROOM	1	70	waste bins		I1	
I	I5	MEP	1	250	HVAC equipment		I6	
I	I6	SERVICE CIRCULATION	1	100	service lift, maintenance		I1, G7, H5	

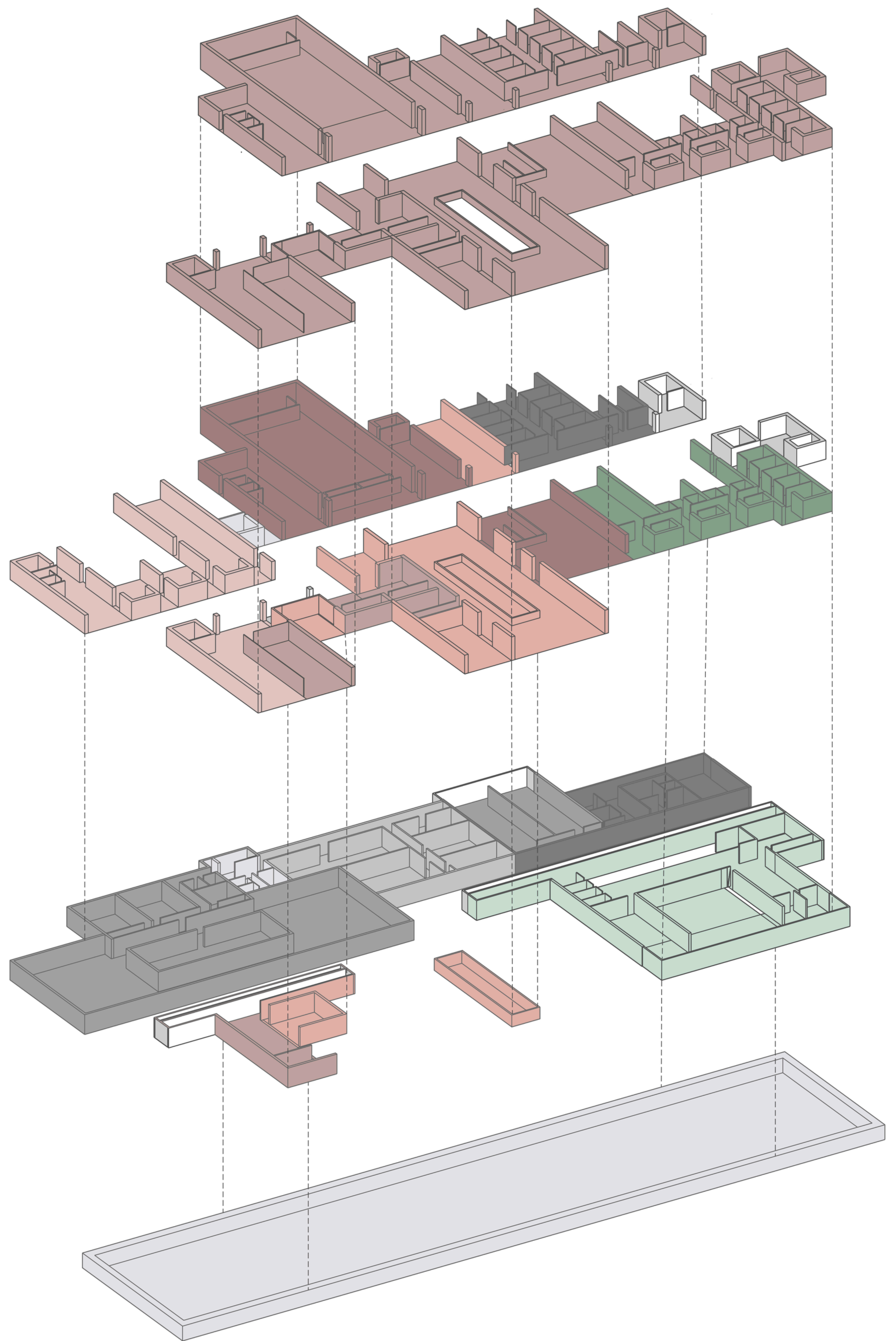
PROGRAMMATIC DIAGRAM

1 floor

0 floor

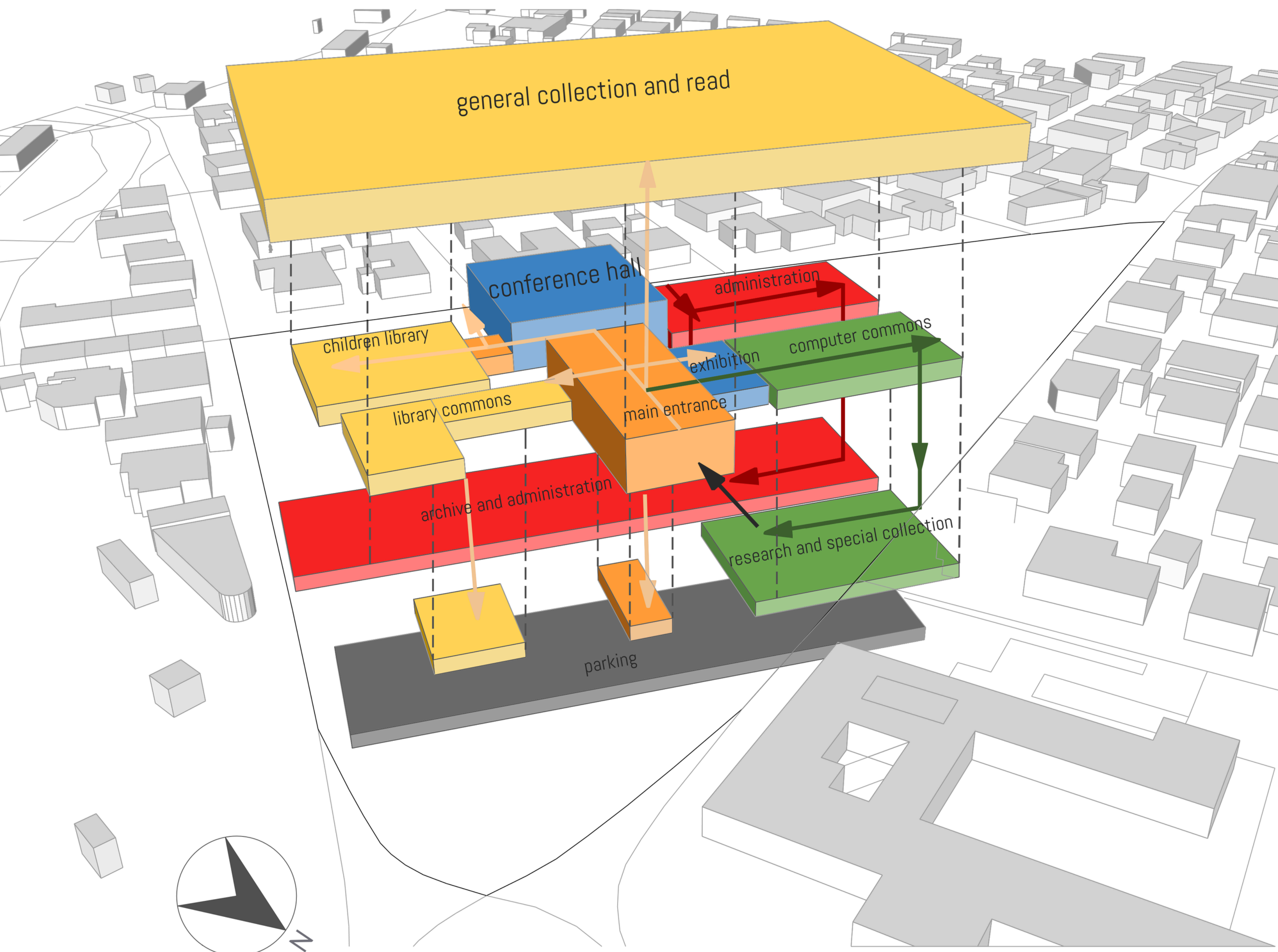
-1 floor

-2 floor



- A. CIVIC ENTRY + PUBLIC FORUM
- B. GENERAL COLLECTIONS + READING
- C. RESEARCH + SPECIAL COLLECTIONS
- D. CHILDREN + YOUTH LIBRARY
- E. DIGITAL MEDIA LABS
- F. EXHIBITION + CONFERENCE
- G. ARCHIVES + CONSERVATION
- H. ADMINISTRATION
- I. BUILDING SUPPORT
- J. PUBLIC. AMENTIES

FUNCTION PROGRAM



1:500

- civic circulation spine
- secondary internal circulation
- service circulation
- main entrance/secondary entrance

- public circulation spine
- exhibition/conference hall
- library (commons+reading)
- storage/digital/research
- archive/service
- vertical circulation

USER GROUPS - USER SCENARIO



USERGROUP
STUDENT

Students use the library as a long-term study environment. They move between quiet reading spaces, group study rooms, and digital labs.

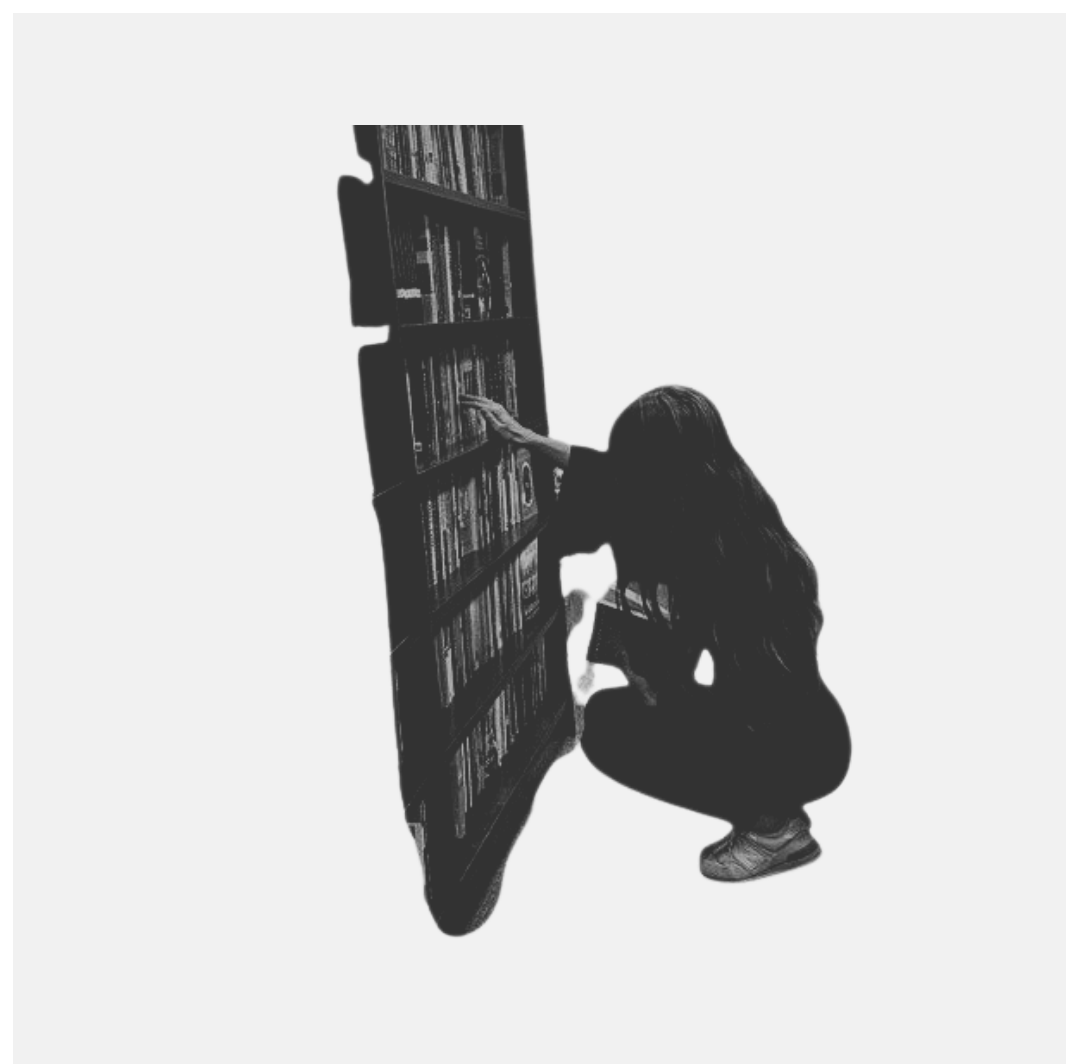
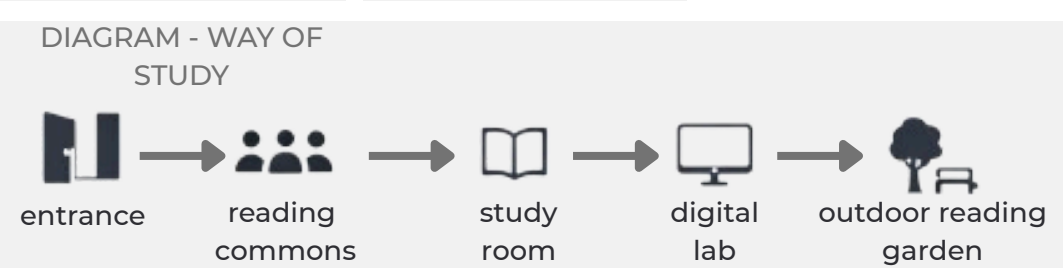
AGE
18-30

TIME IN LIBRARY
4-6h

COMMUNICATION SPACE
collaborative
semi-social
quiet

REQUIRED SPACE
Quiet reading
Group study
Digital labs
Study rooms

USAGE OF PUBLIC SPACE
Reading gardens
Plaza seating
Café



USERGROUP
RESEARCHER

Researchers use the library for academic work and access to rare materials. Controlled archive spaces support specialized research.

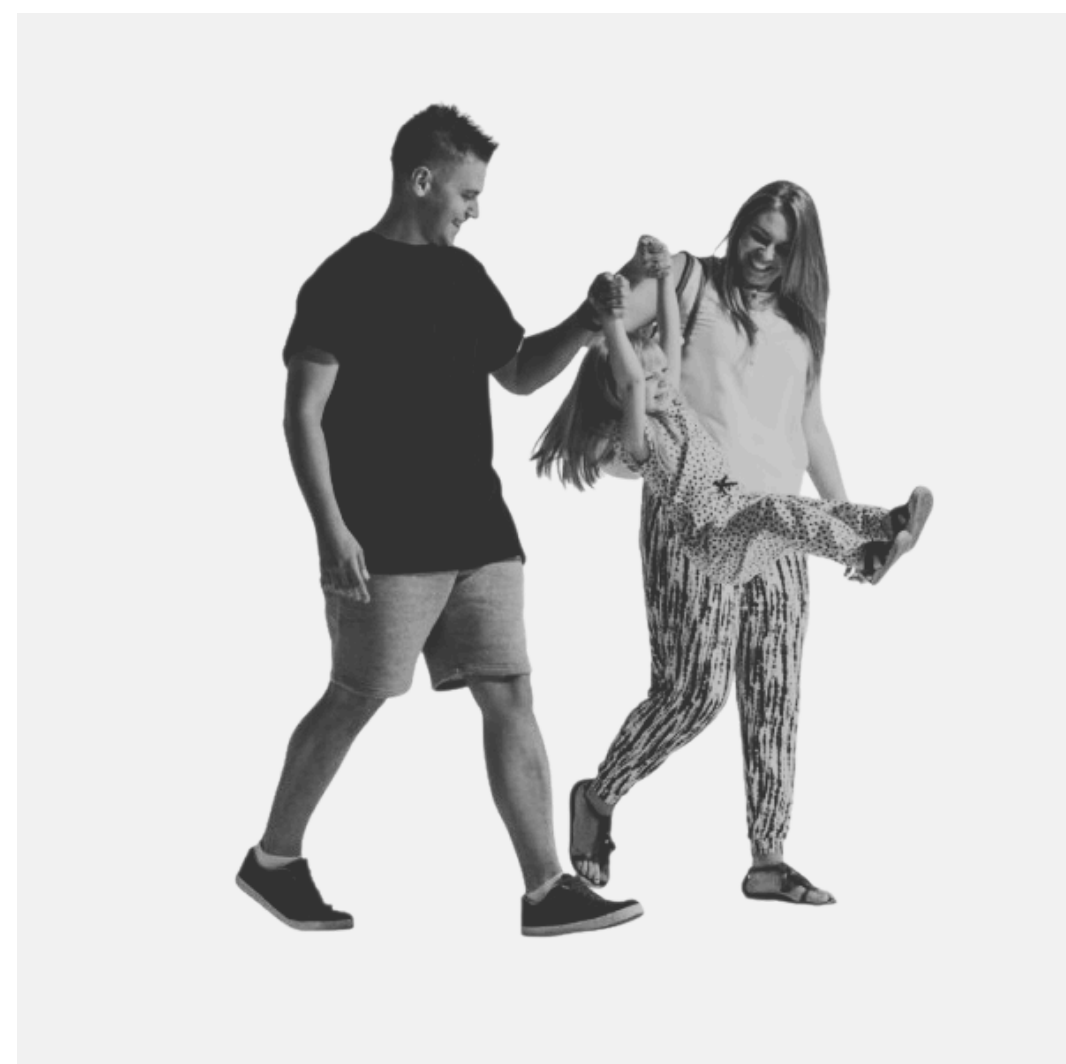
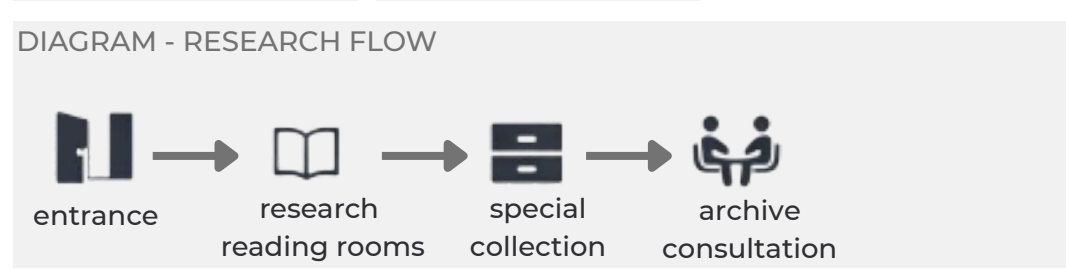
AGE
25-65

TIME IN LIBRARY
3-5h

COMMUNICATION SPACE
research reading room
seminar discussion
archive consultation

REQUIRED SPACE
Research reading room
Special collections
Archive consultation

USAGE OF PUBLIC SPACE
Mostly indoor use.



USERGROUP
FAMILIES & CHILDREN

Families use the library for educational and recreational activities. The children's zone encourages interactive learning.

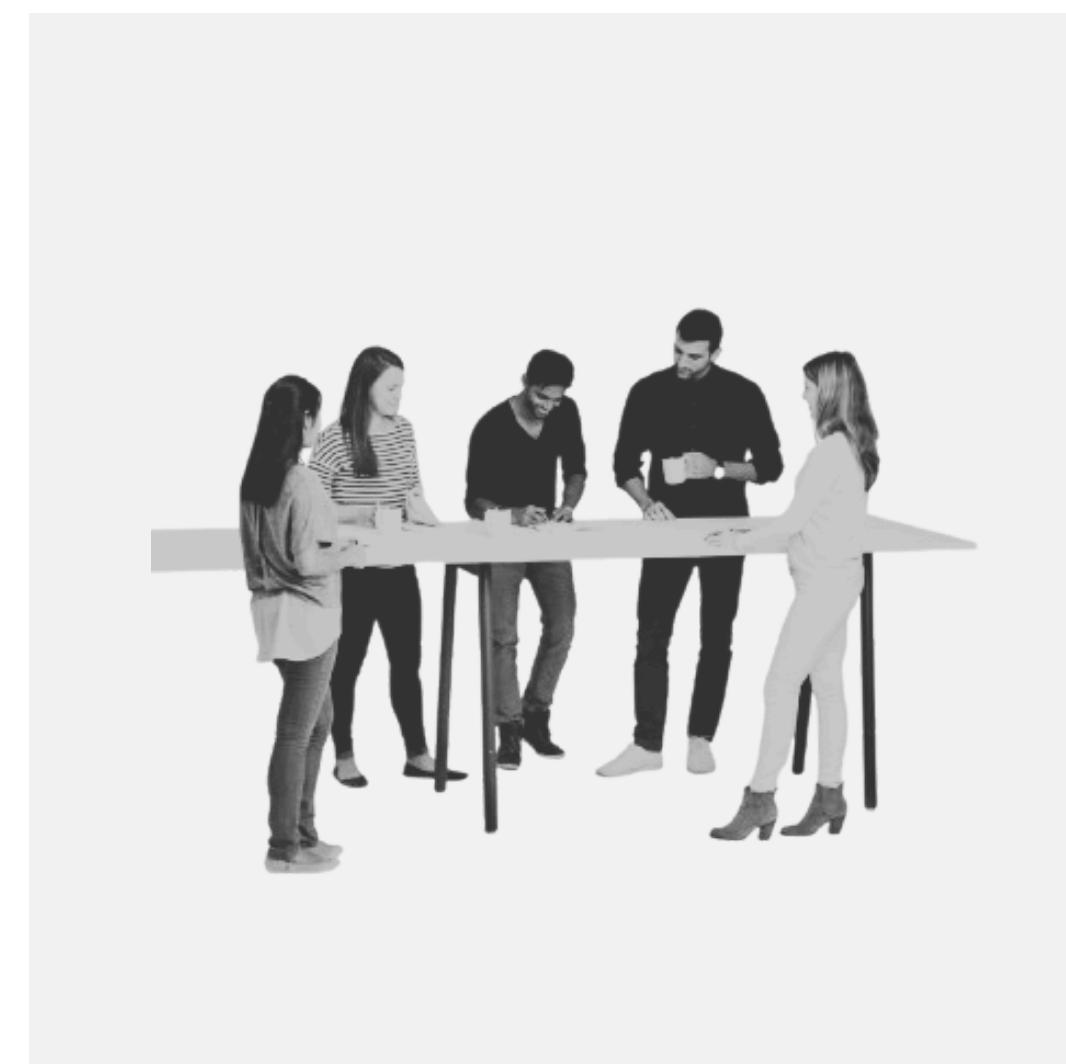
AGE
Parents + children

TIME IN LIBRARY
1-3h

COMMUNICATION SPACE
children library
storytelling area
activity room

REQUIRED SPACE
Children reading
Flexible learning
Parent seating

USAGE OF PUBLIC SPACE
Plaza
Learning landscape
Outdoor reading



USERGROUP
CREATIVE COMMUNITY

Creative users engage in digital production and collaborative work. The library supports experimentation and cultural production.

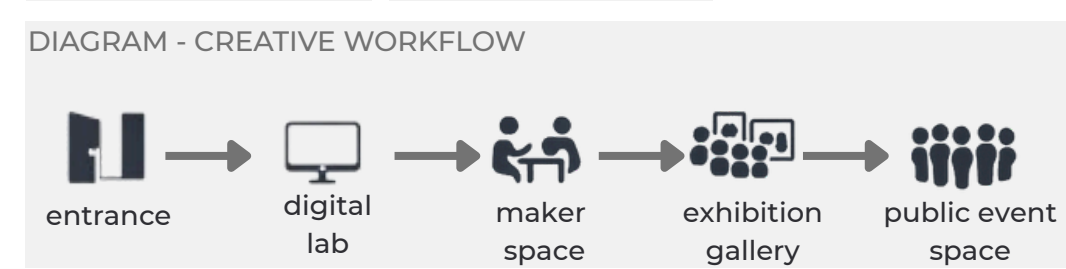
AGE
20-40

TIME IN LIBRARY
2-4h

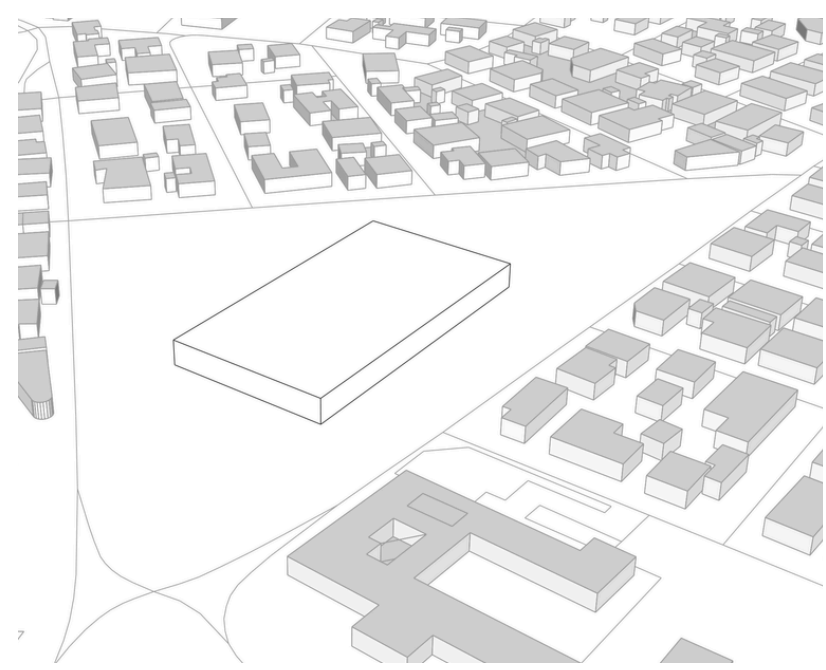
COMMUNICATION SPACE
makerspace
digital labs
exhibition areas

REQUIRED SPACE
Workshop spaces
Media labs
Creative production areas

USAGE OF PUBLIC SPACE
Plaza
Exhibitions
Events

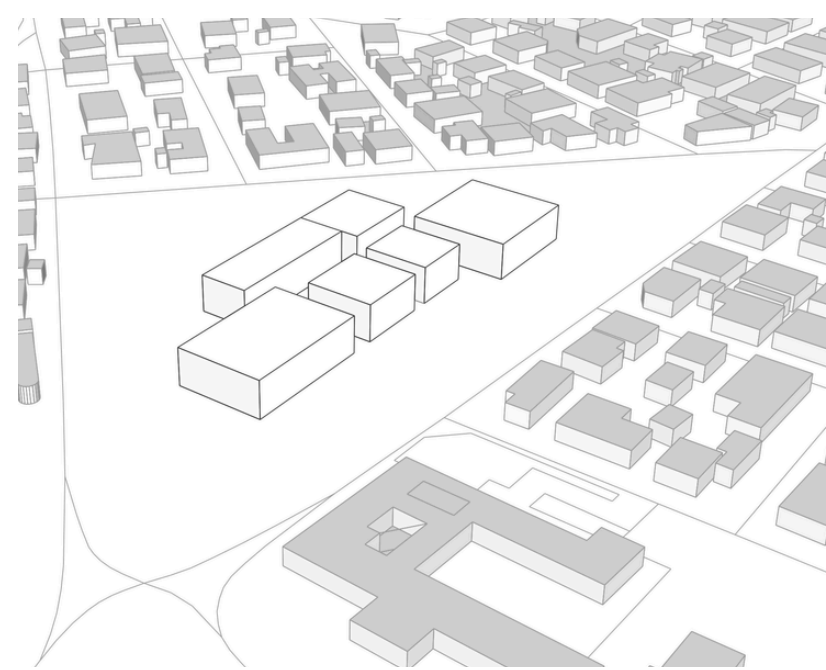


FORM GENERATION



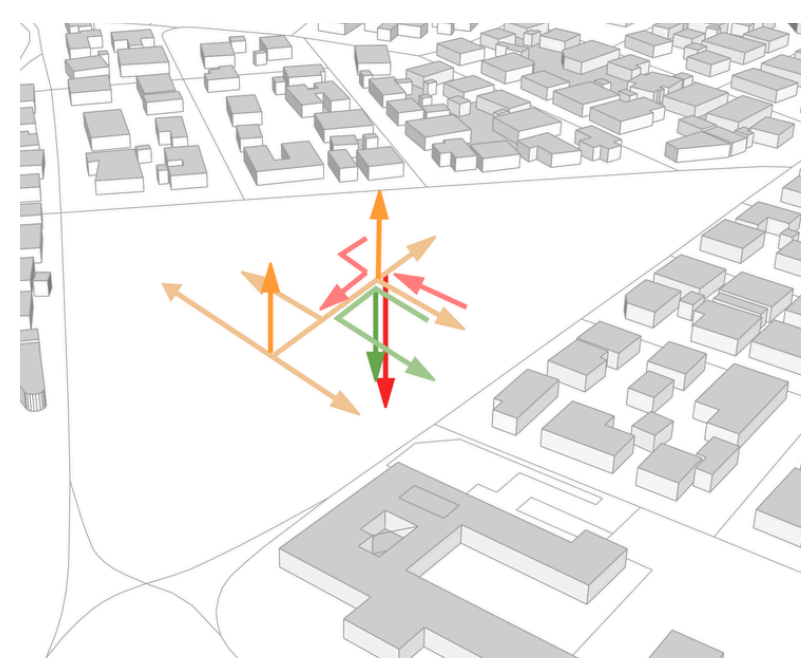
Step 01 - Initial Mass Placement

The architectural program is translated into a single rectangular volume, defining the overall building footprint on the site.



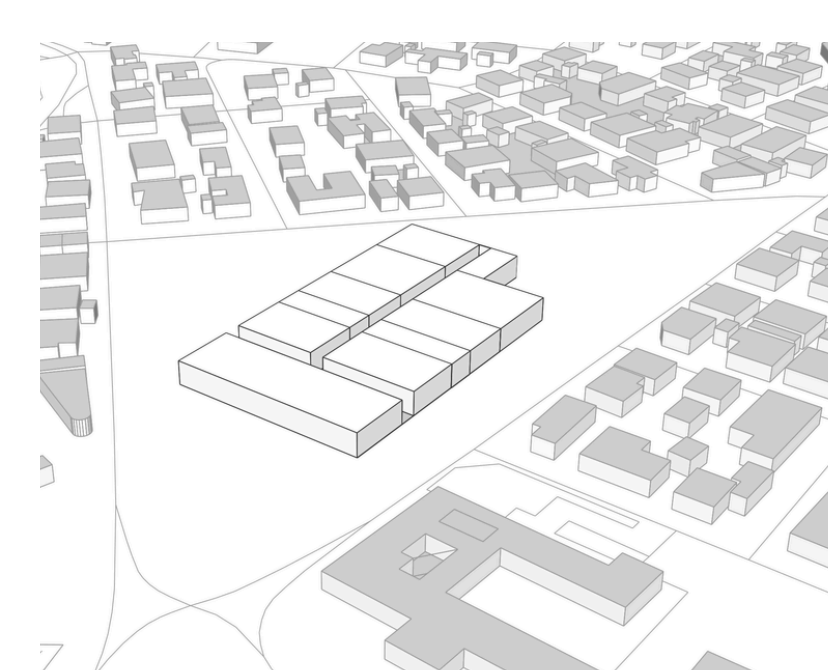
Step 02 - Functional Zoning

The mass is subdivided into zones based on functional relationships, grouping spaces according to their required adjacencies, noise levels, and support connections.



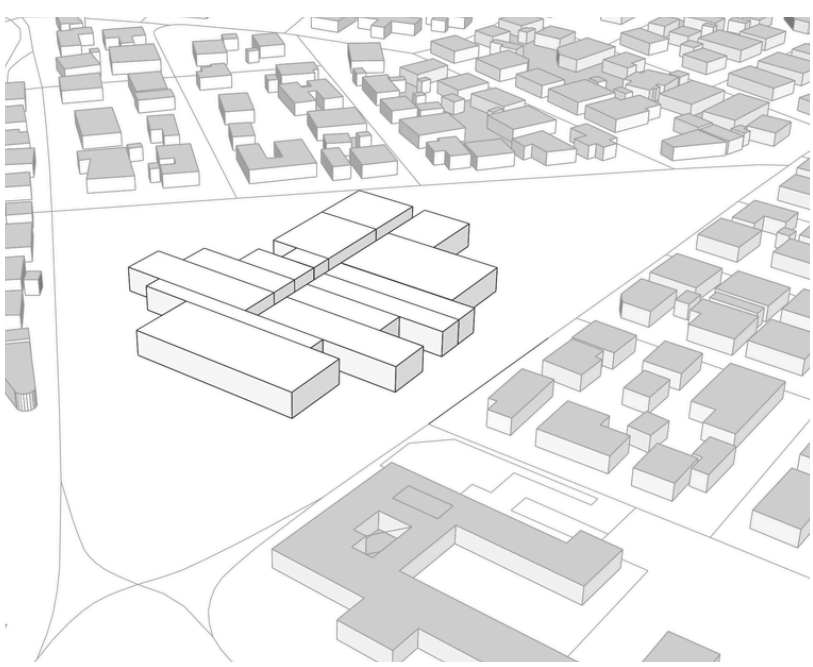
Step 03 - User & Circulation Analysis

User groups and their movement patterns are analyzed to define circulation flows and access within the building.



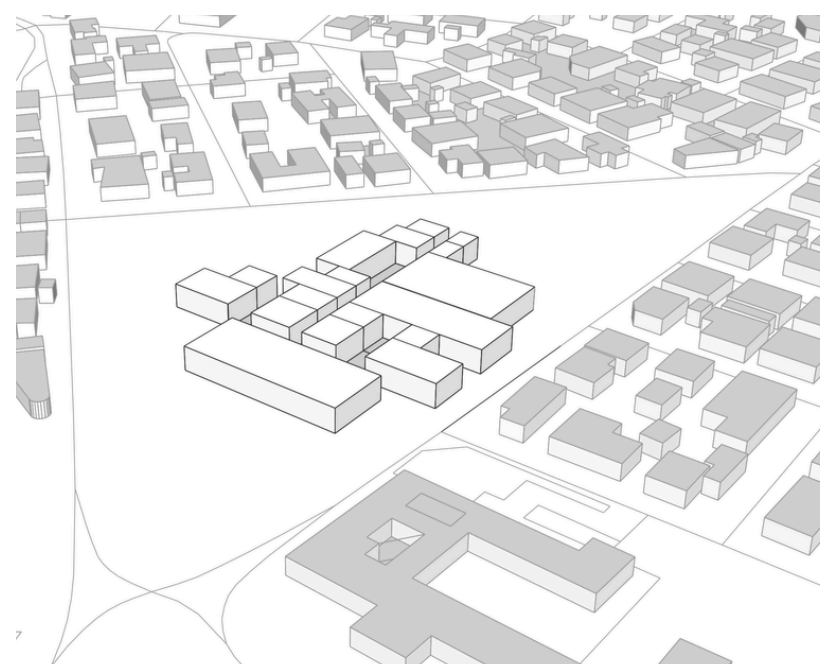
Step 04 - Mass Adjustment

The zones are resized and reorganized based on area requirements, forming a composition of volumes that reflect the program distribution.



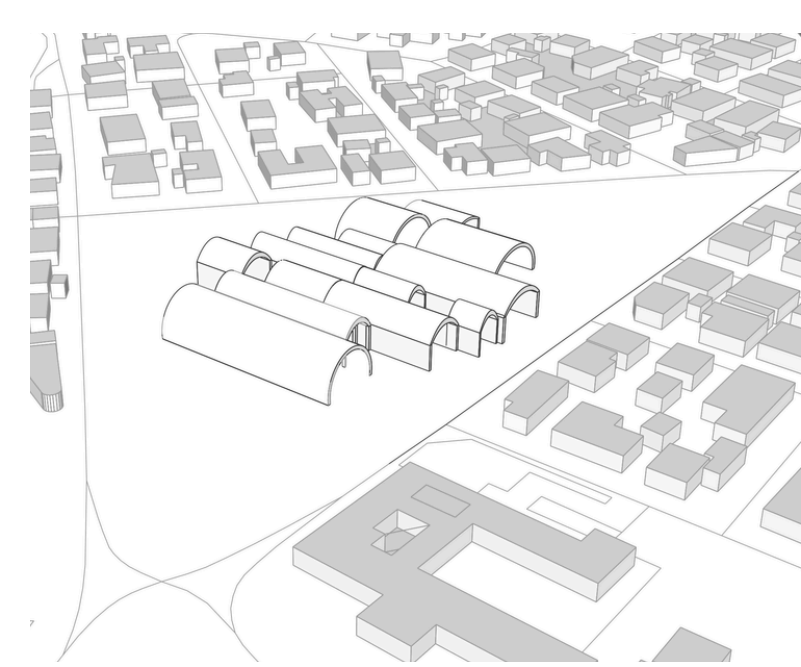
Step 05 - Form Articulation

The volumes are further adjusted by varying their lengths to create a more dynamic and articulated overall form.



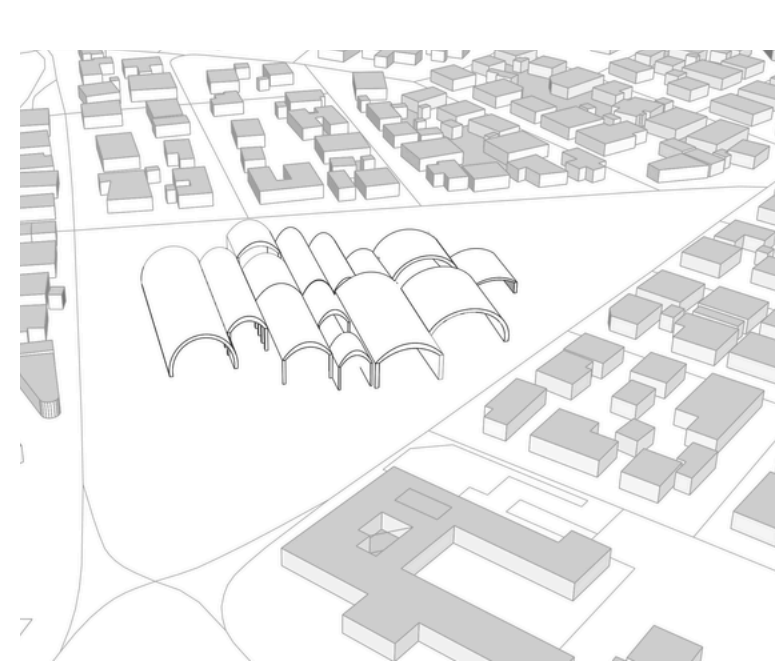
Step 06 - Inner Garden Integration

An internal garden is introduced within the building mass, creating an enclosed green space that enhances spatial quality and environmental performance.



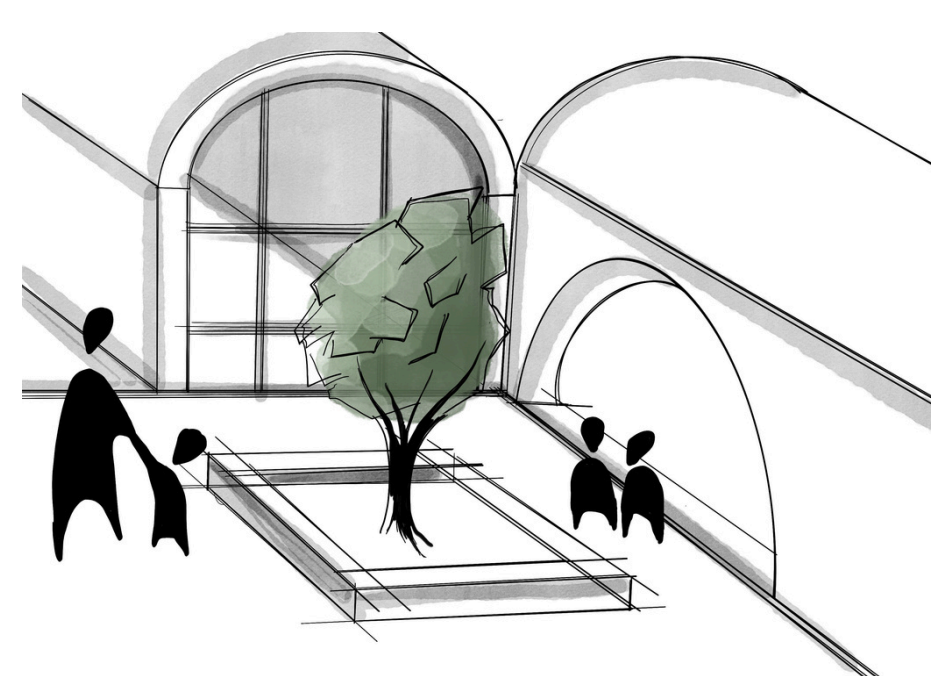
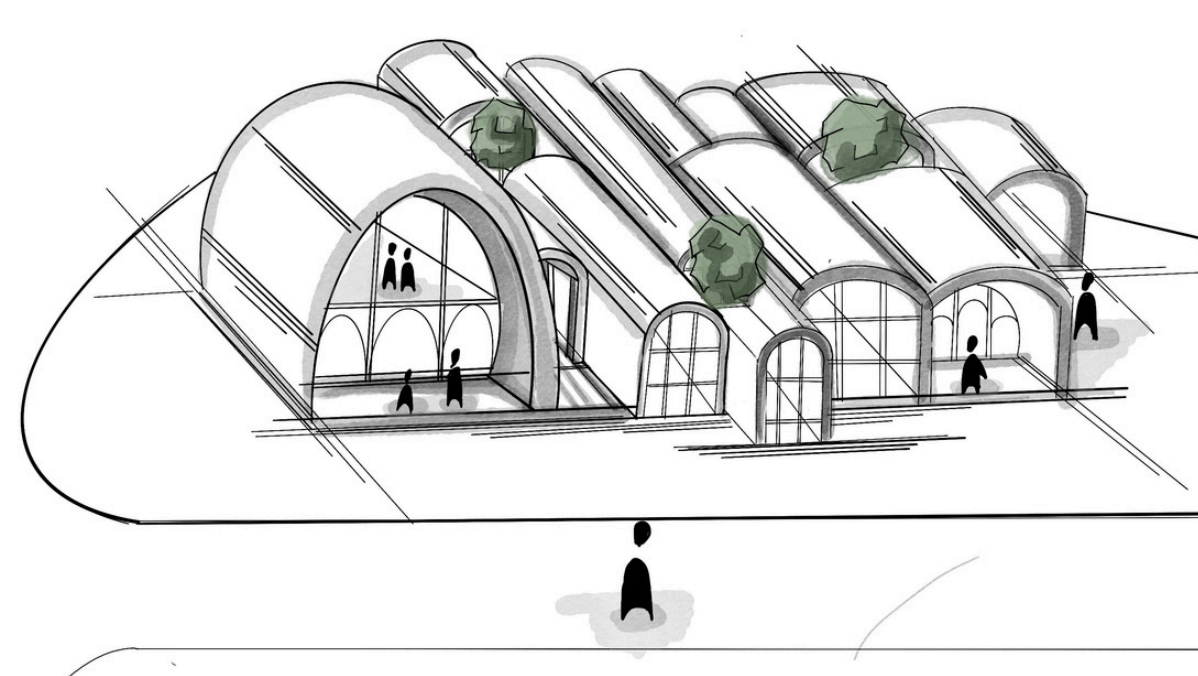
Step 07 - Structural Concept Integration

The selected arch system is applied to the form, introducing defined spans that shape the spatial and structural logic of the building.



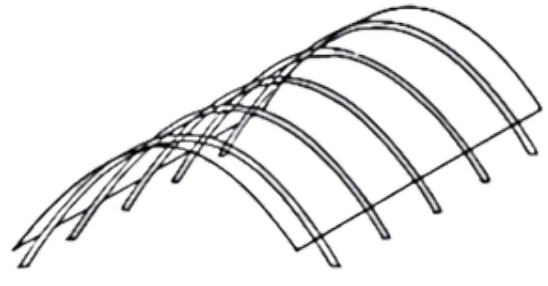
Step 08 - Orientation & Urban Response

The building is oriented to strengthen its civic presence, aligning with key landmarks, the main road, and pedestrian flows to enhance visibility and accessibility.



Form-Structure studies, Research and Analysis

01. STRUCTURAL ALTERNATIVES

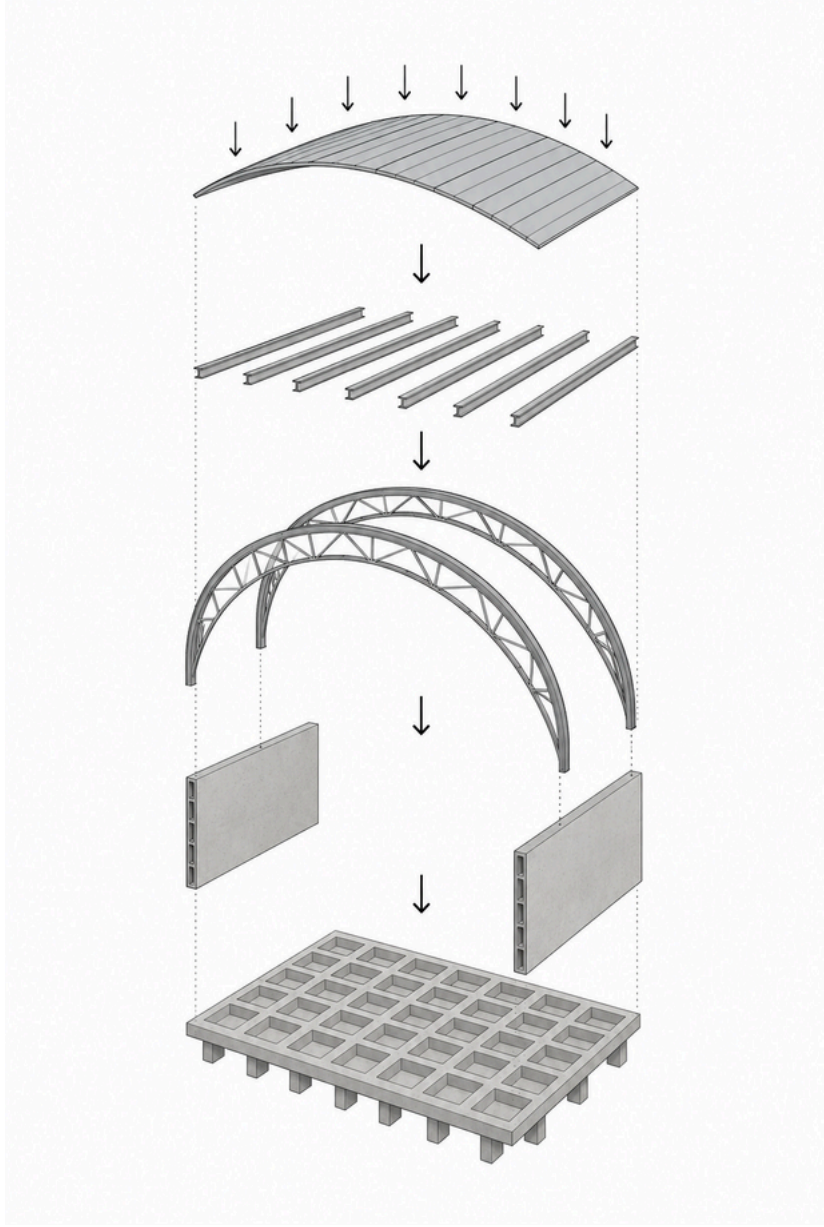


Steel linear arch system
Efficient for large spans (20m)



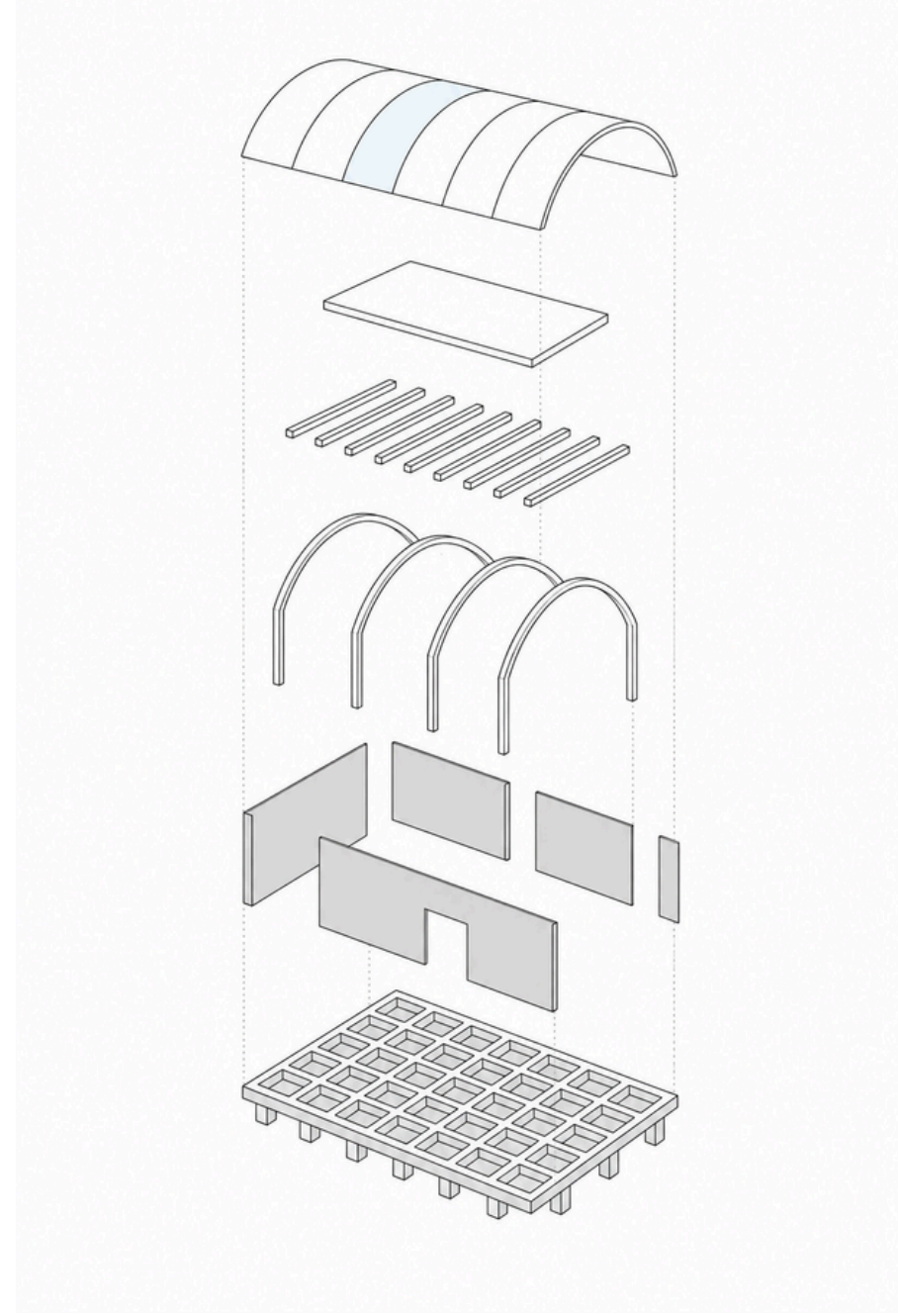
Concrete vault system
Efficient for small spans (5-15 m)

02. LOAD TRANSFER



ROOF LOAD
↓
SECONDARY BEAMS
↓
STEEL ARCH
↓
RC WALL
↓
WAFFLE FOUNDATION

03. EXPLODED STRUCTURAL SYSTEM



WOOD FINISH
RC SLAB
I-BEAMS
STEEL ARCHES
RC WALLS
WAFFLE FOUNDATION

STRUCRURAL SYSTEM:

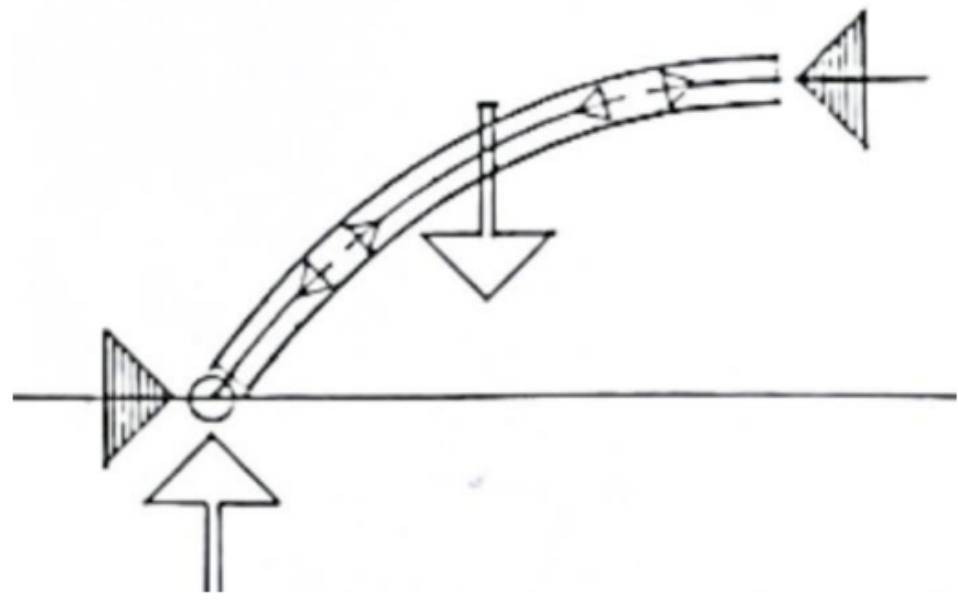
Prototype



Forces - Compression

Features - Thrust line

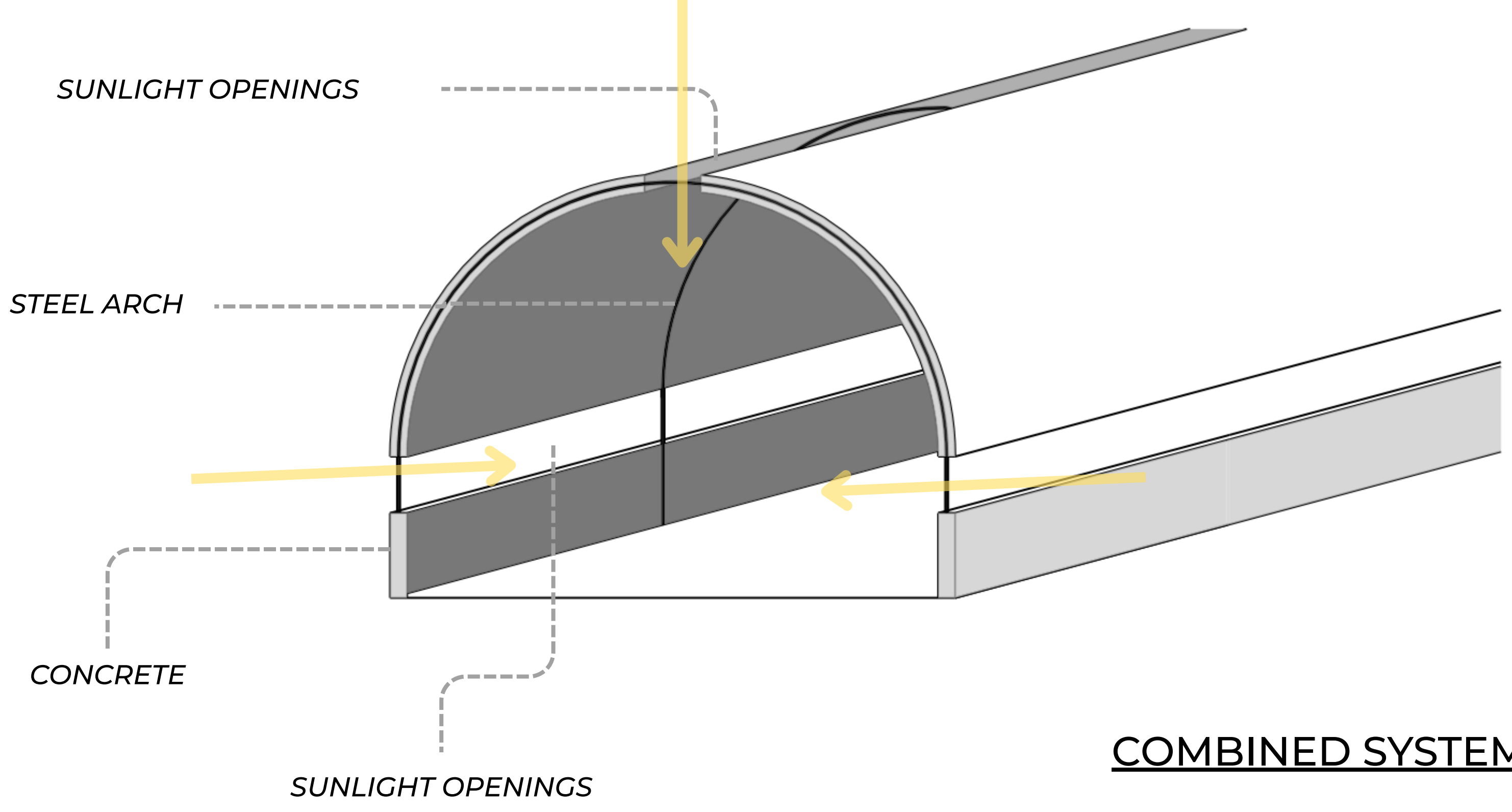
Mechanics of
Redirection of Forces -
Form active



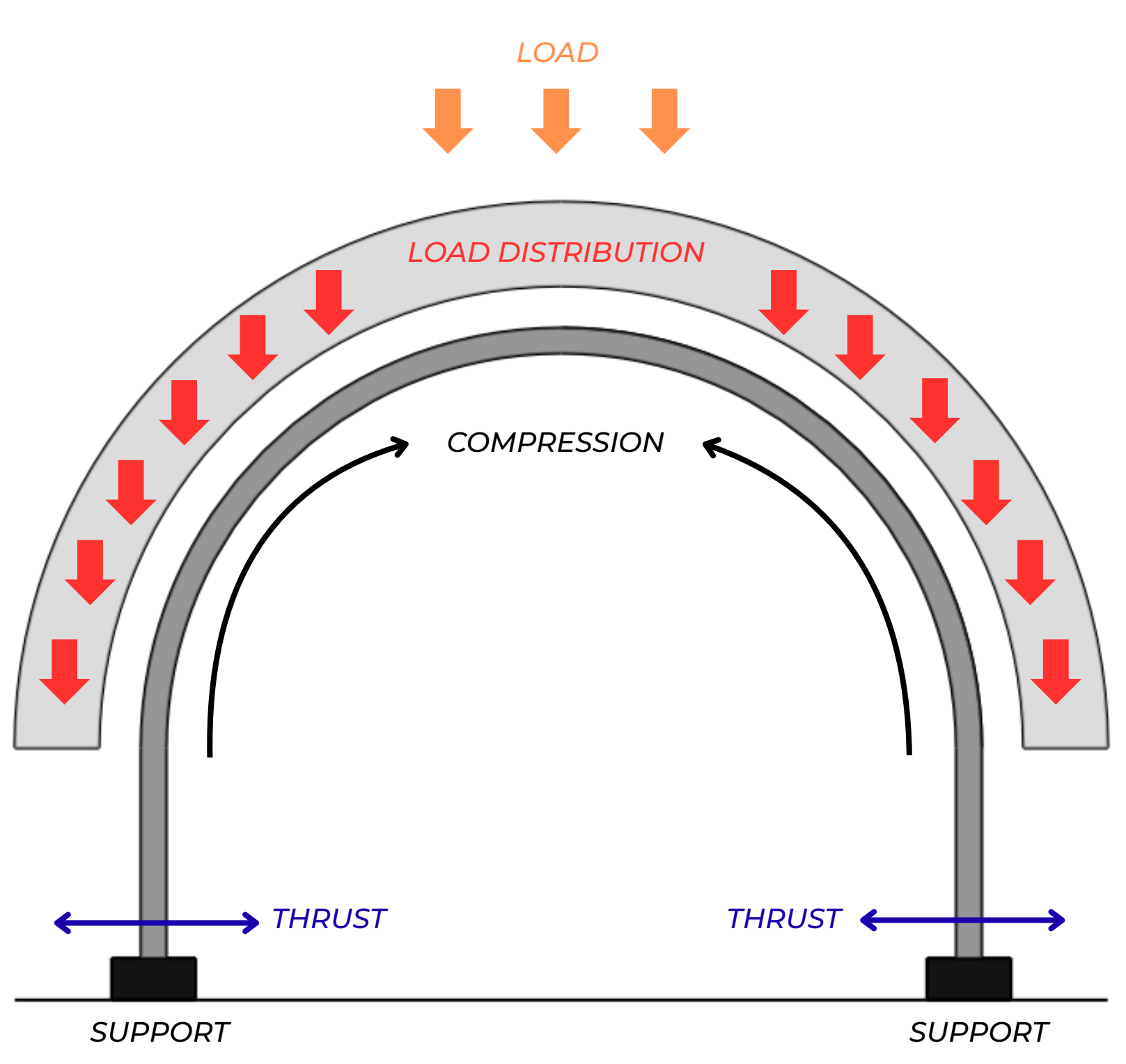
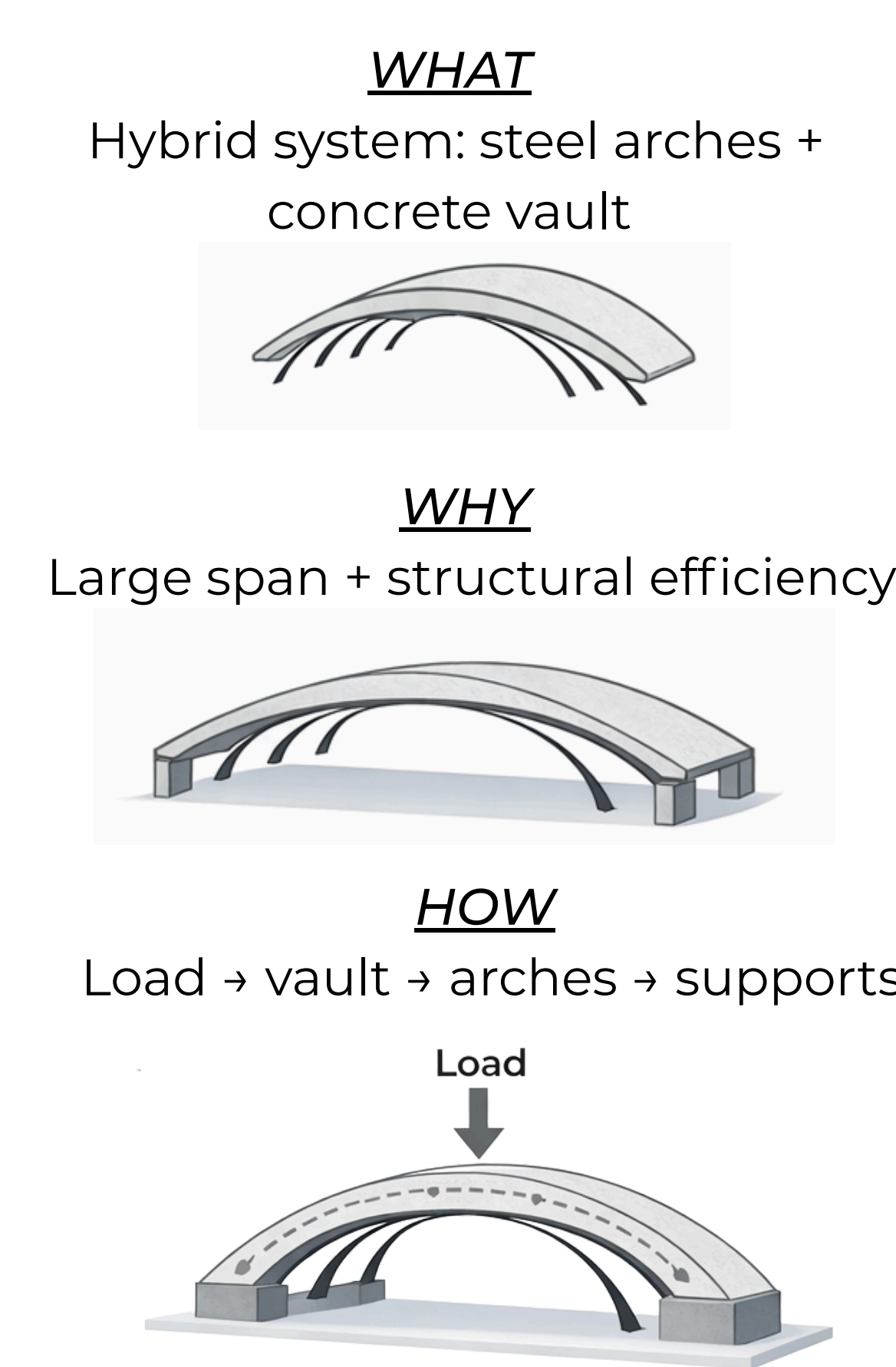
Structural family -
Form-Active Structural
Systems

Definition -
Forces follow geometry

Structure Type -
Compressive (Arch)
Structures



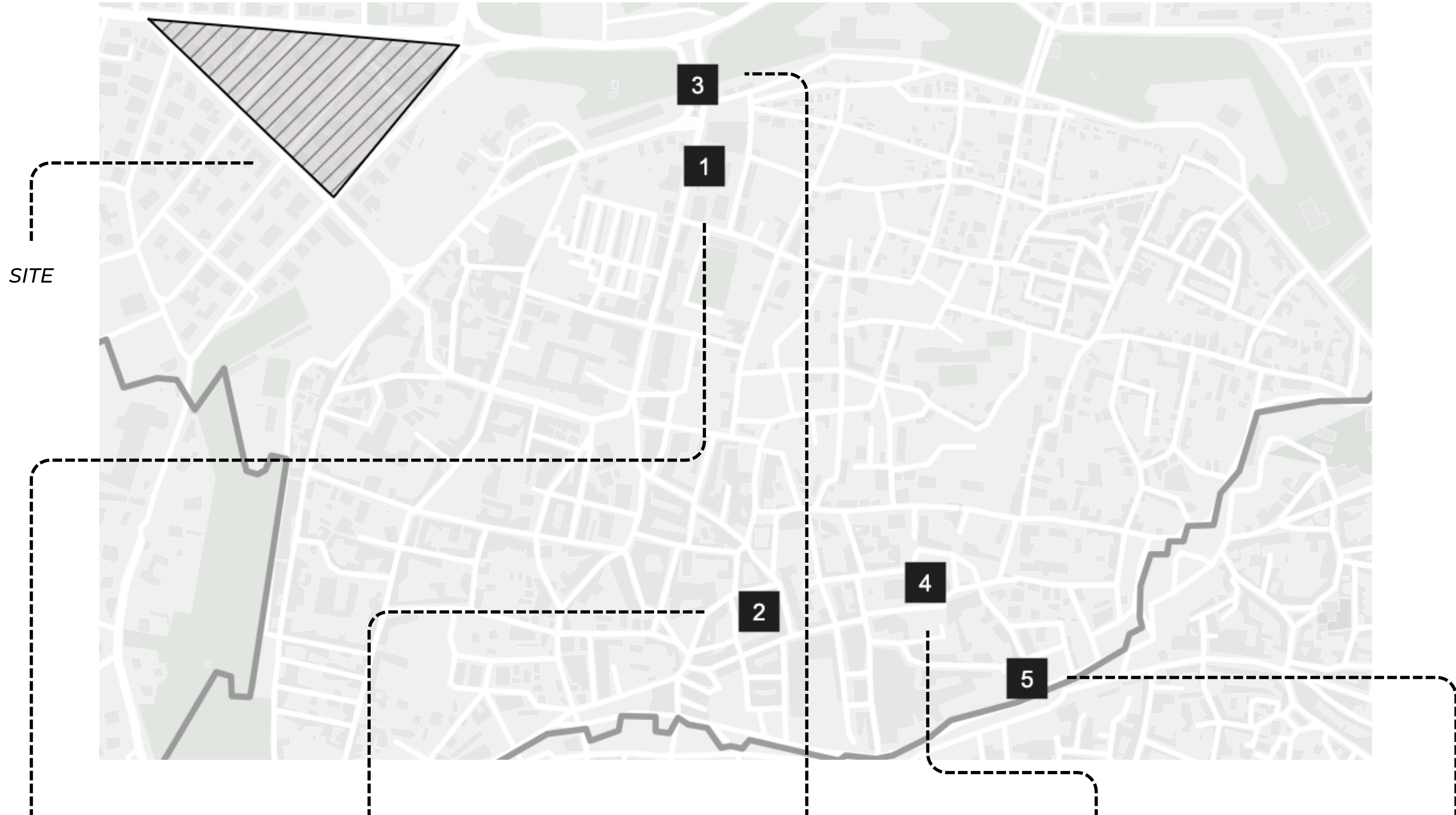
COMBINED SYSTEM



STRUCTURAL DIAGRAM

CONCEPT OF ARCHES

Arches as an Element of the Historical Identity of the District



MELVELI TEKKE MUSEUM



BUYUK HAN



KYRENIA GATE

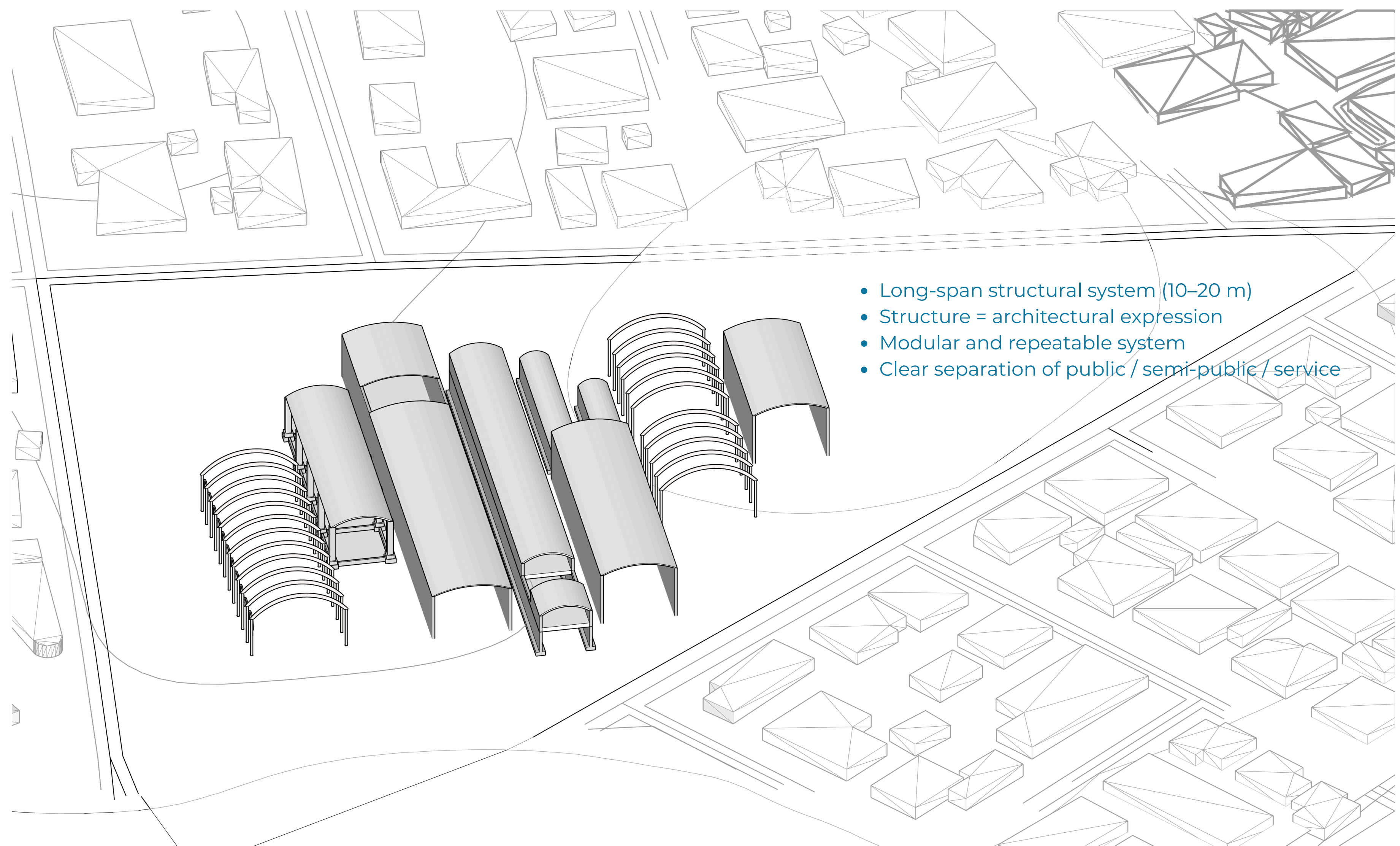


SELIMIYE MOSQUE



BEDESTEN

FORM+ SPACE + STRUCTURE 3D MODELING (CONCEPT MODEL)

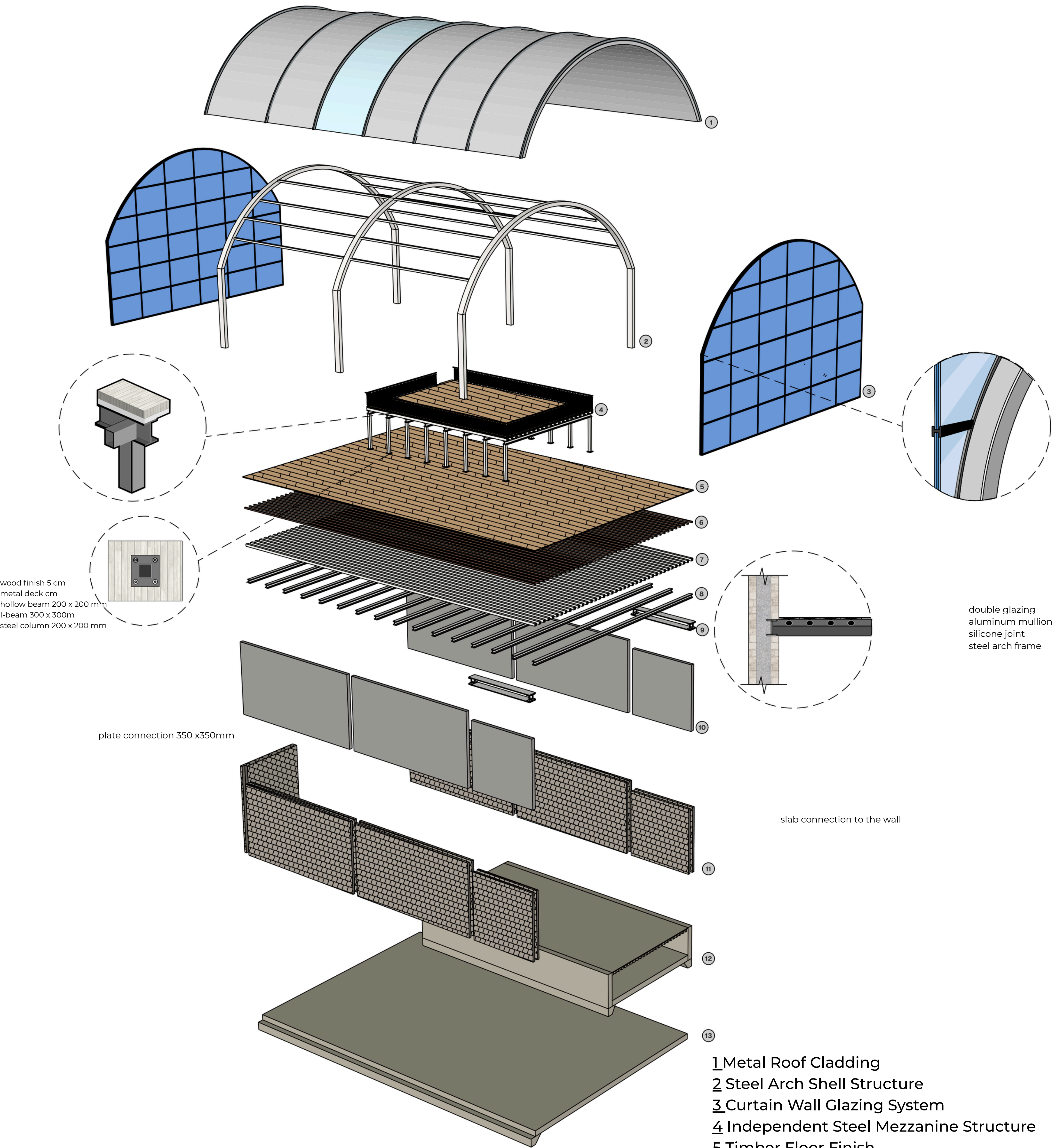


- Long-span structural system (10-20 m)
- Structure = architectural expression
- Modular and repeatable system
- Clear separation of public / semi-public / service

The project is based on a system of linear vaulted volumes, where structure defines space.

1:500

STRUCTURAL DIAGRAM



wood finish 5 cm
metal deck cm
hollow beam 200 x 200 mm
I-beam 300 x 300mm
steel column 200 x 200 mm

plate connection 350 x350mm

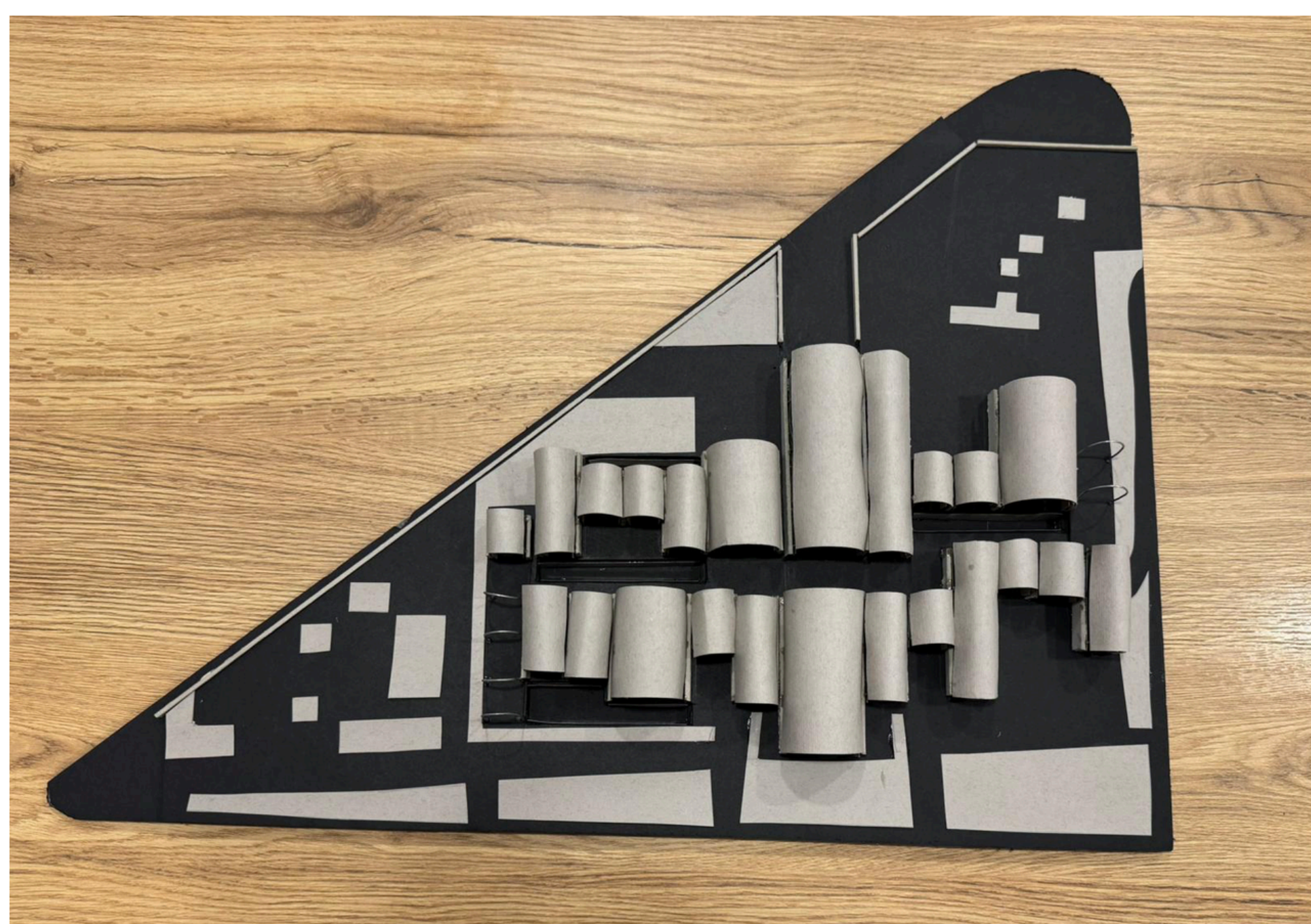
slab connection to the wall

double glazing
aluminum mullion
silicone joint
steel arch frame

- 1 Metal Roof Cladding
- 2 Steel Arch Shell Structure
- 3 Curtain Wall Glazing System
- 4 Independent Steel Mezzanine Structure
- 5 Timber Floor Finish
- 6 Secondary Steel Floor Beams
- 7 Hollow Structural Steel Beams (HSS)
- 8 Primary Steel I-Beams
- 9 Steel-Framed Ventilation Opening
- 10 Reinforced Concrete Shear Walls
- 11 Masonry Infill Walls
- 12 Waffle Foundation System
- 13 Reinforced Concrete Foundation Slab

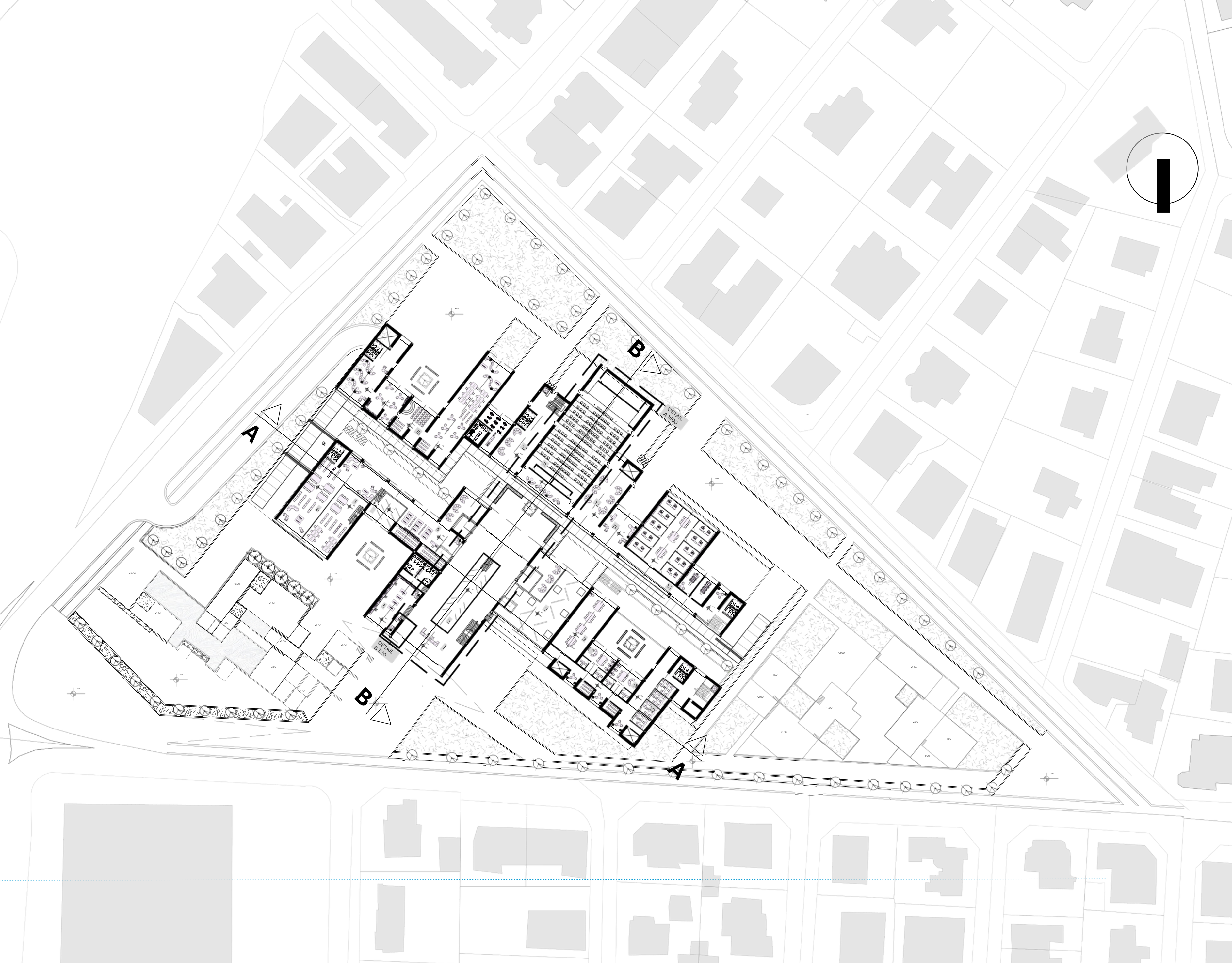
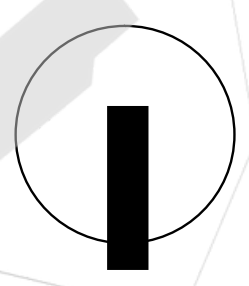
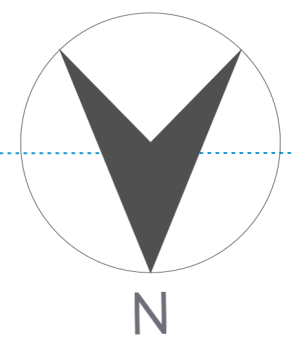


SITE PLAN 1:500

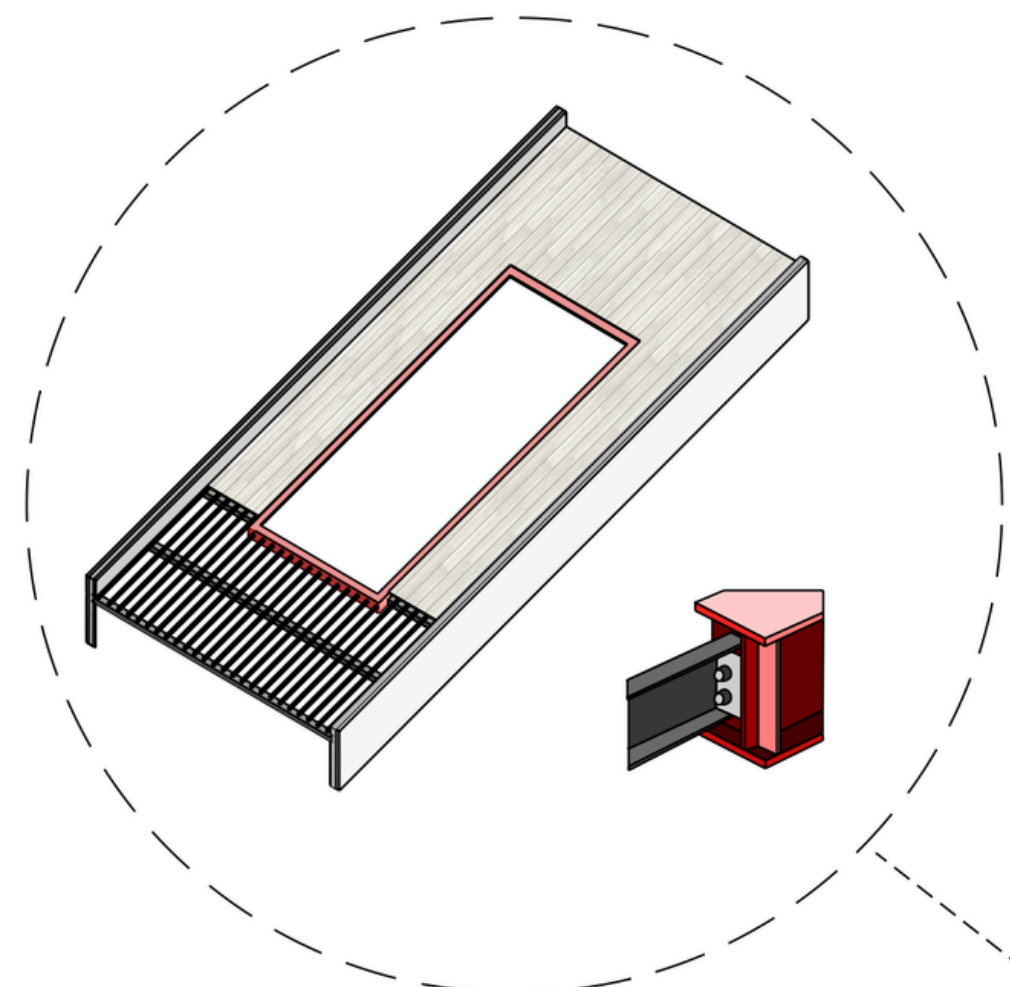


PHYSICAL SITE MODEL
1:500

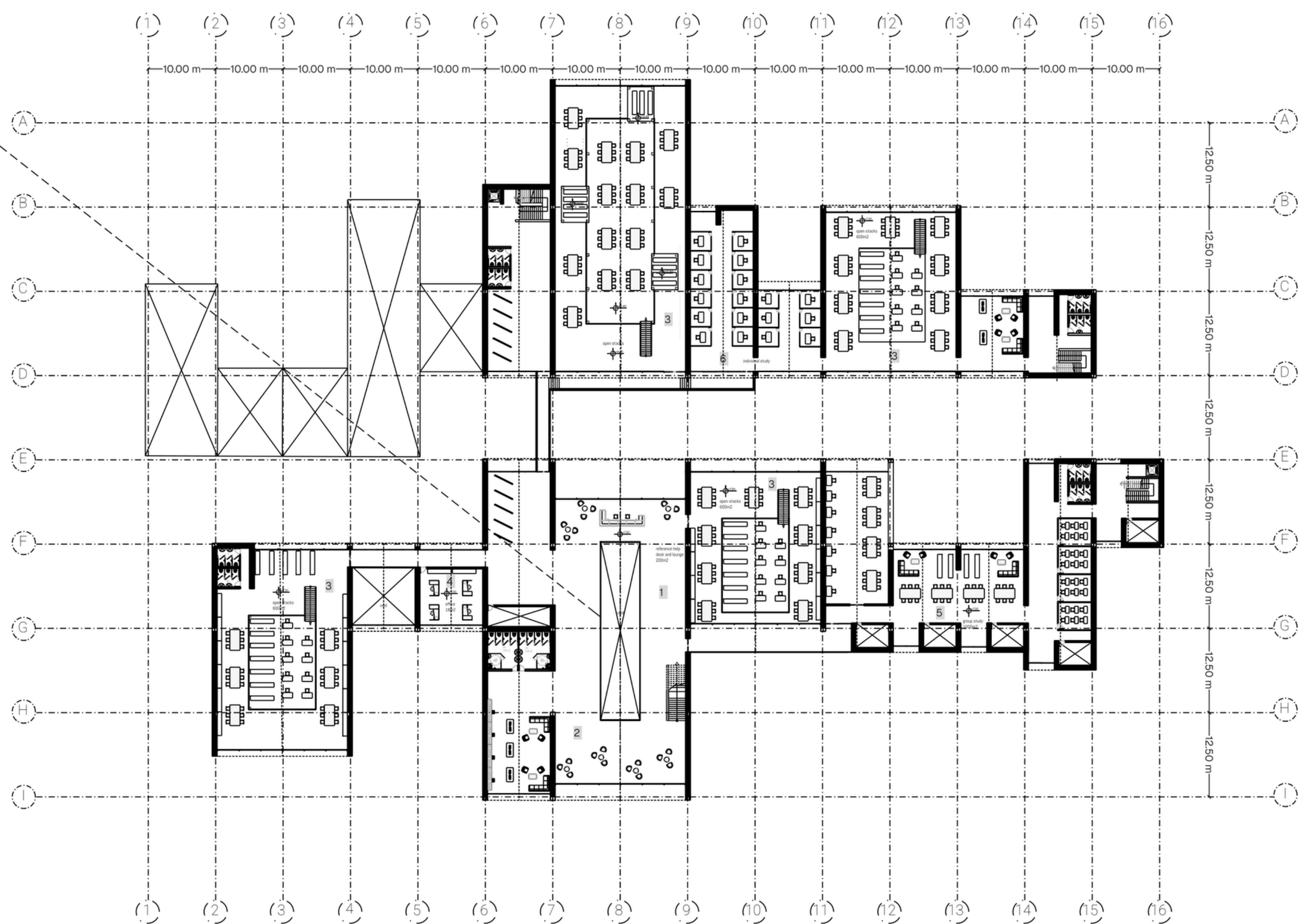
- Legend of Spaces**
1. MAIN ENTRANCE
 2. GALLERY
 3. BOOKSHOP
 4. NEW ARRIVALS
 5. CASUAL READING
 6. TEEN STUDY
 7. EXHIBITION
 8. COMPUTER COMMONS
 9. MEDIA LIBRARY
 10. TRAINING ROOMS
 11. CONFERENCE HALL
 12. PRE-FUNCTIONAL FOYER
 13. ADMINISTRATION ENTRANCE
 14. ADMINISTRATION OFFICES
 15. CHILDREN LIBRARY



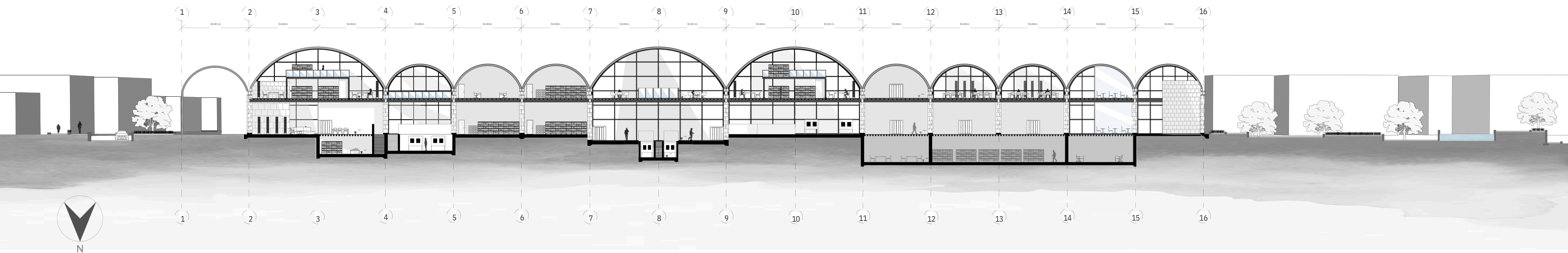
GROUND FLOOR PLAN 1:200



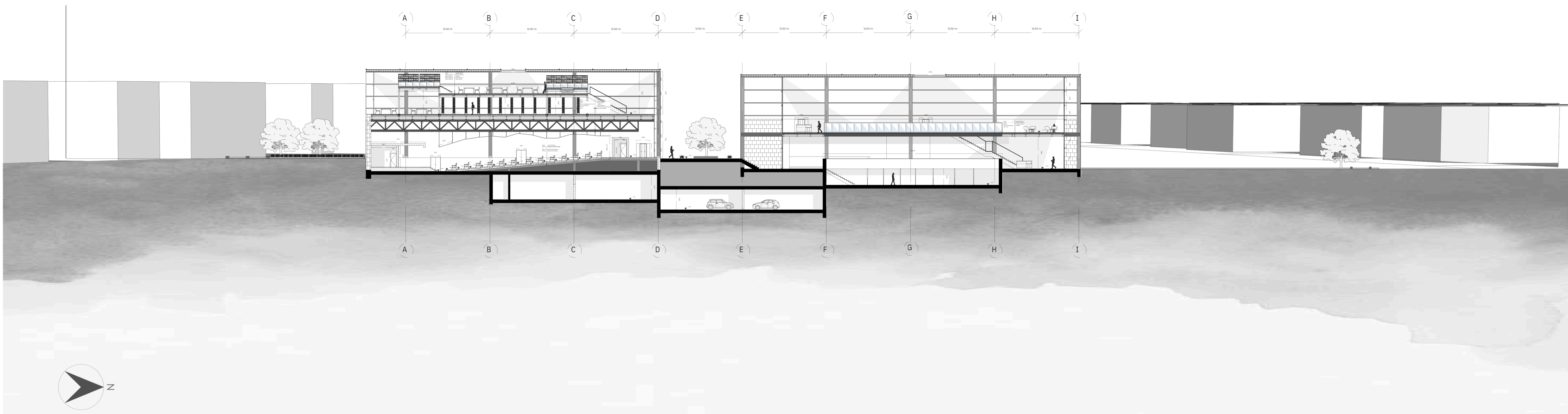
- Legend of Spaces**
1. REFERENCE HELP DESK
 2. LOUNGE
 3. OPEN STACKS AND READING
 4. OFFICE
 5. GROUP STUDY
 6. INDIVIDUAL STUDY



1FLOOR PLAN 1:200

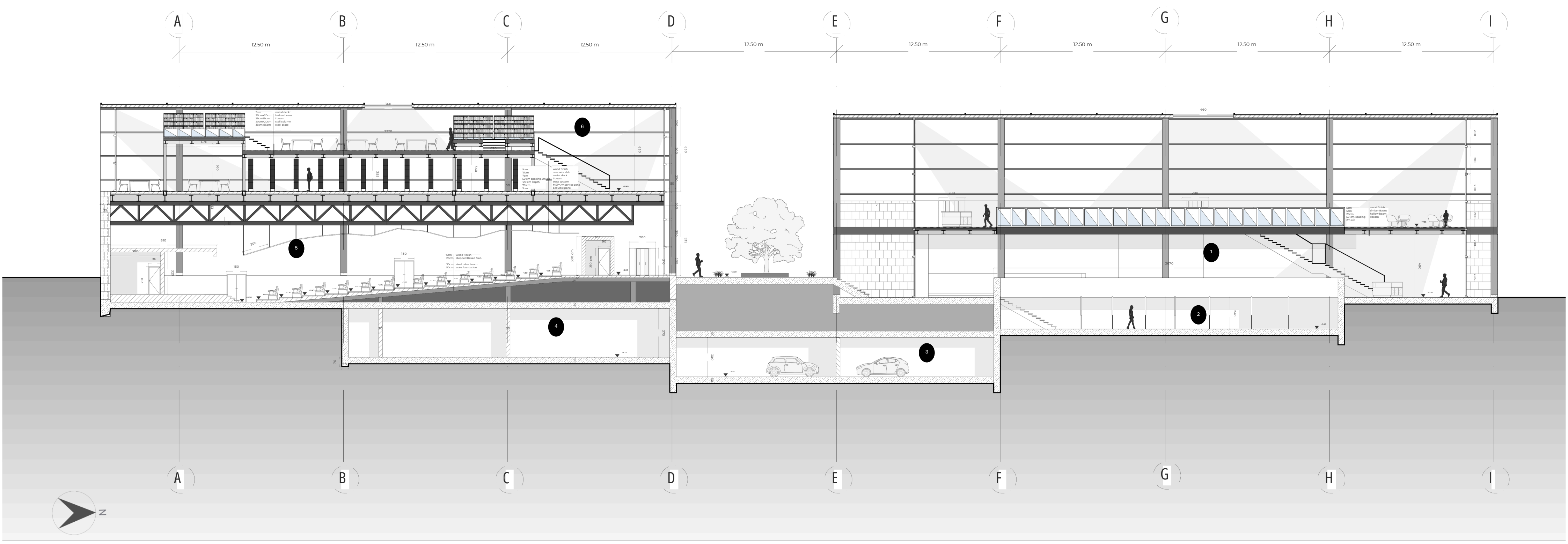


SECTION A-A
1:200



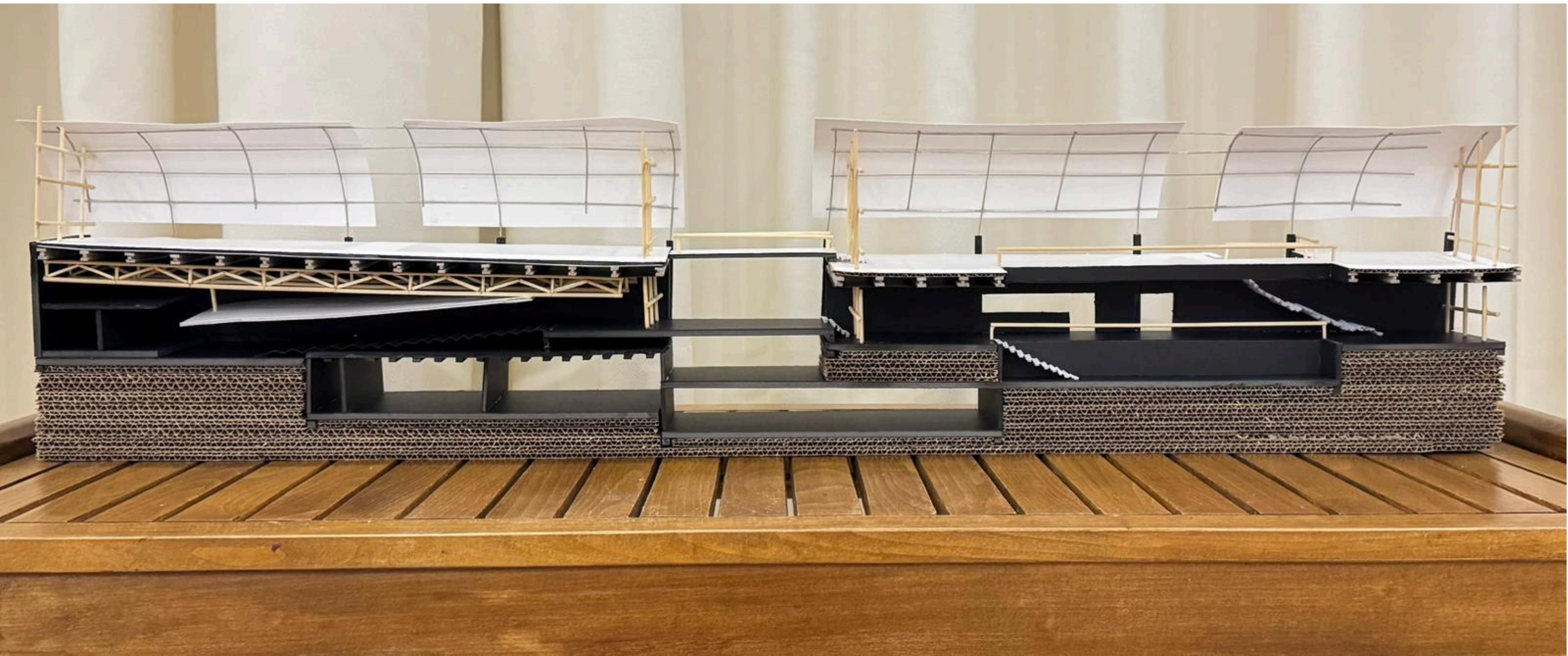
SECTION B-B
1:200

- Legend of Spaces**
- 1. MAIN ENTRANCE
 - 2. GALLERY
 - 3. PARKING
 - 4. SERVICE
 - 5. CONFERENCE HALL
 - 6. OPEN STACKS

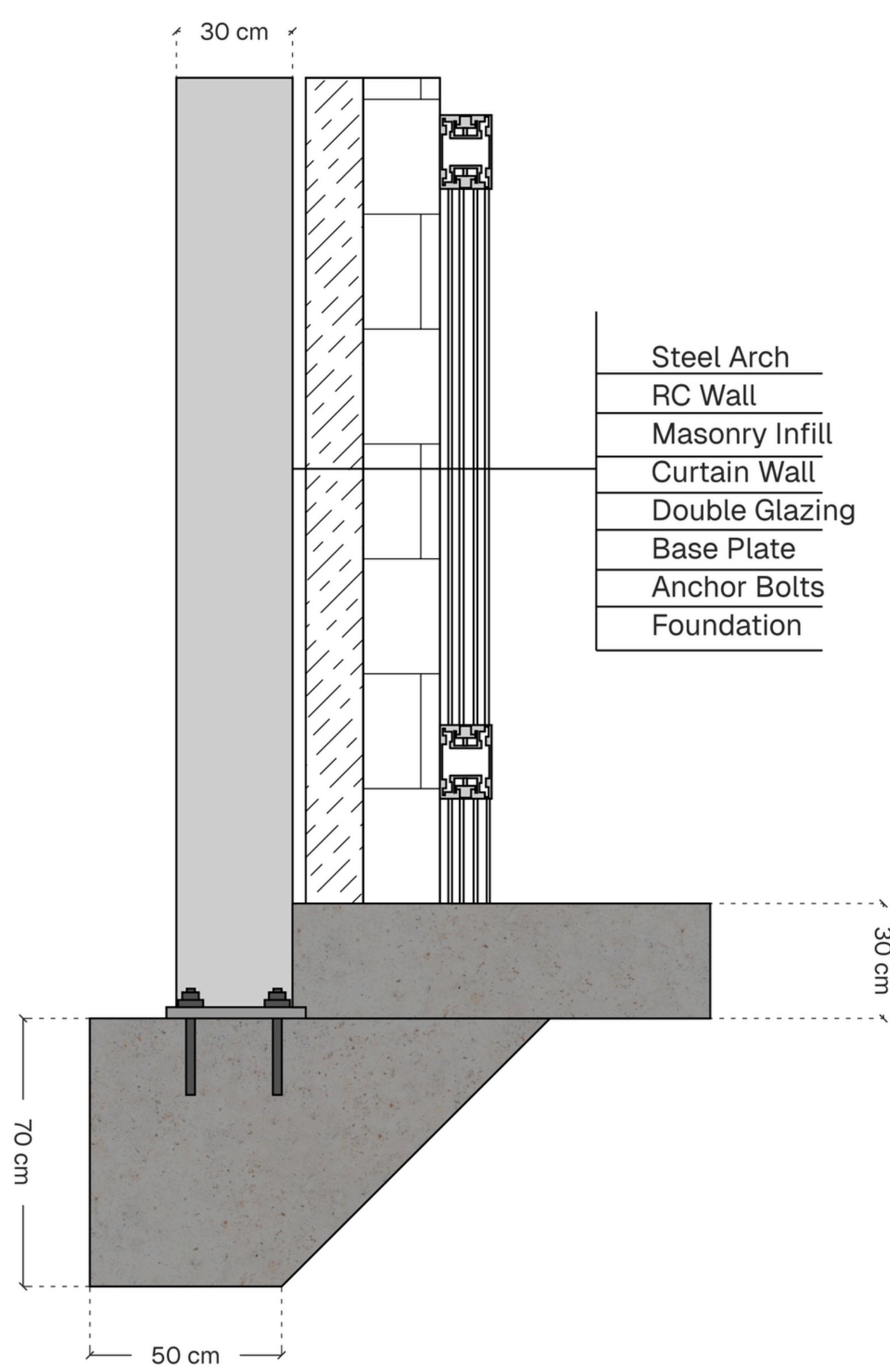


SELECTED SECTION DETAIL A

1:100



PHYSICAL MODEL 1:100



SELECTED POINT DETAIL
 1:20
 DETAIL PLAN B