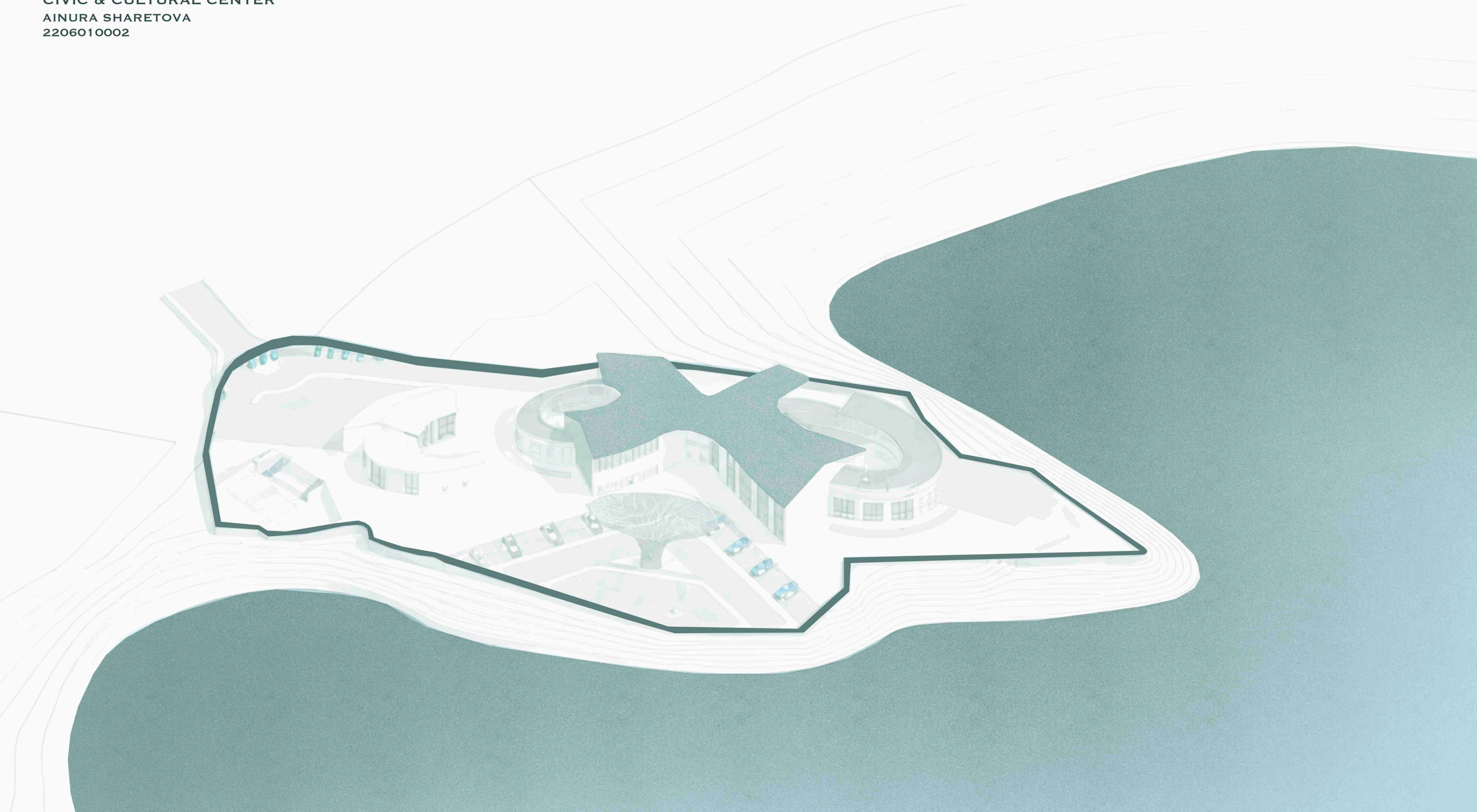


ARCH422  
SPRING SEMESTER



# NEXUS

CIVIC & CULTURAL CENTER  
AINURA SHARETOVA  
2206010002



# CITY LEVEL ANALYSIS.

01



KYRENIA CASTLE IS A MEDIEVAL FORTRESS LOCATED IN THE OLD HARBOR OF KYRENIA, ORIGINALLY BUILT BY THE BYZANTINES IN THE 7TH CENTURY AND LATER REINFORCED BY THE VENETIANS. TODAY, IT HOUSES ST. GEORGE'S CHAPEL AND THE FAMOUS SHIPWRECK MUSEUM DISPLAYING A 4TH-CENTURY BC GREEK MERCHANT SHIP.



THE OLD HARBOR IS THE HEART OF THE CITY, FILLED WITH YACHTS, CAFÉS, AND RESTAURANTS. IT HAS A STRONG MEDITERRANEAN VIBE, ESPECIALLY AT SUNSET.



THE SITE IS LOCATED ON THE NORTHERN COAST OF CYPRUS NEAR AŞKÖY, DIRECTLY OVERLOOKING THE MEDITERRANEAN SEA. SURROUNDED BY OLIVE FIELDS AND ROCKY SHORELINE, IT COMBINES NATURAL LANDSCAPE WITH INDUSTRIAL HERITAGE, OFFERING STRONG POTENTIAL FOR CULTURAL TRANSFORMATION.

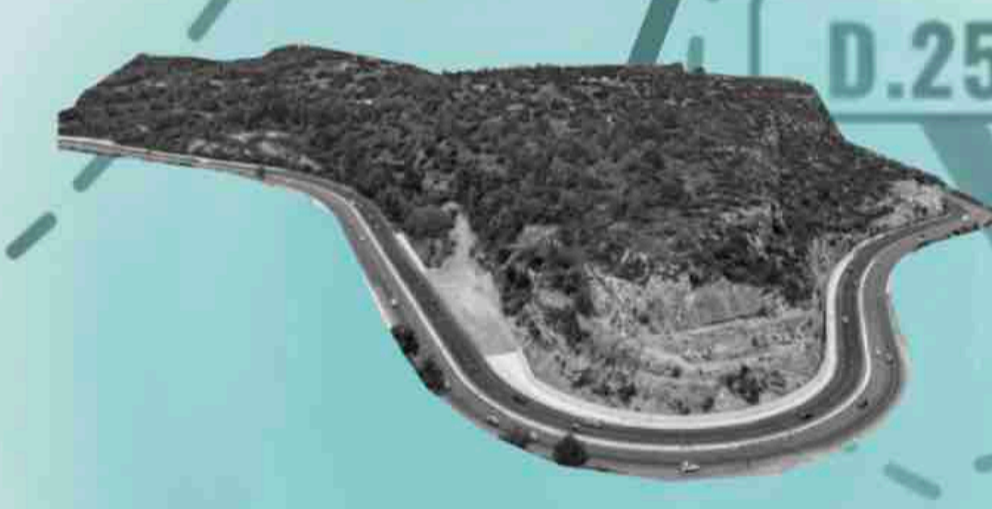
GR.50

D.10

KYRENIA BELTWAY

D.10

D.25



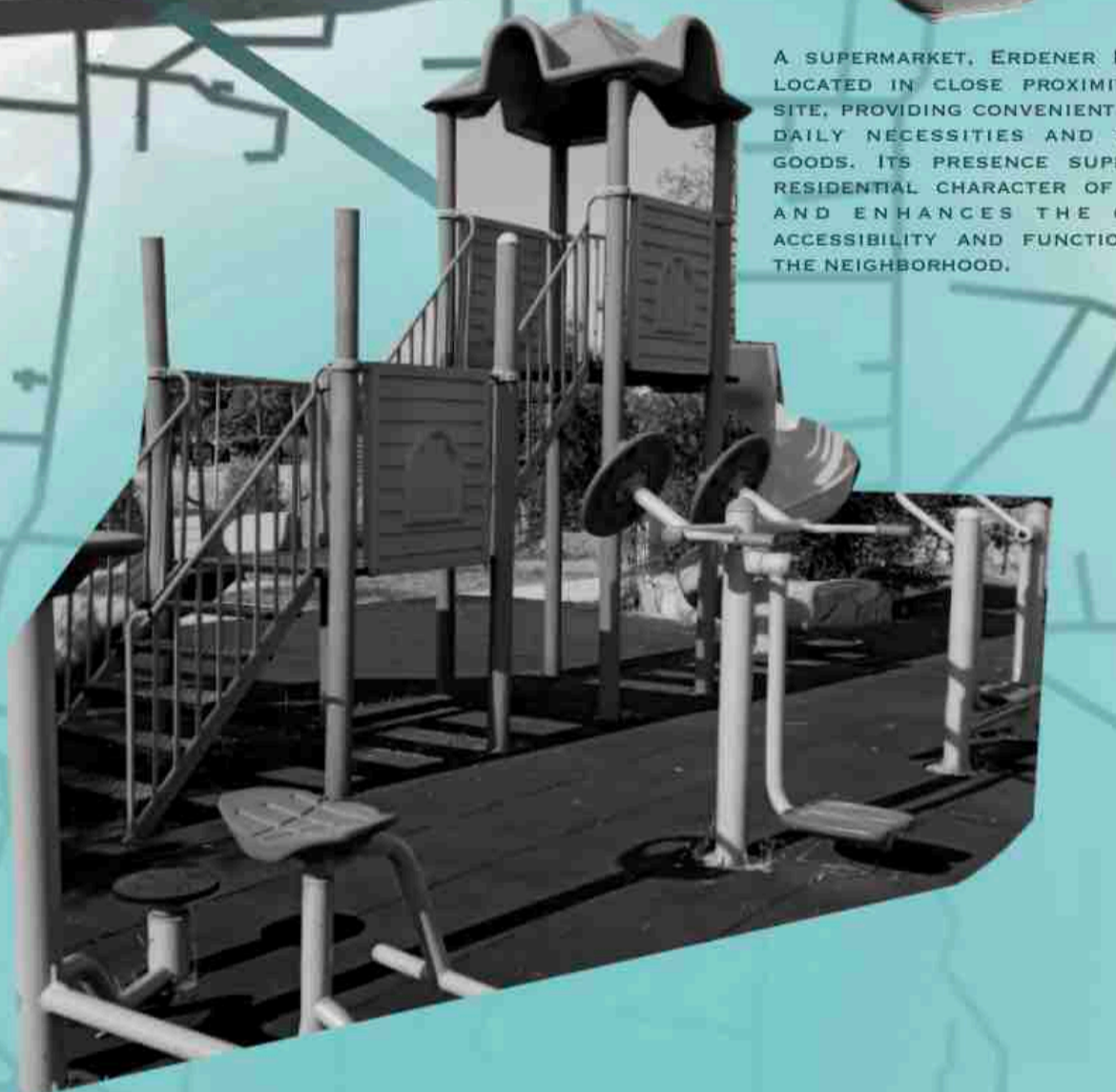
GIRNE-LEFCOSIA HIGHWAY



A SUPERMARKET, ERDENER MARKET, IS LOCATED IN CLOSE PROXIMITY TO THE SITE, PROVIDING CONVENIENT ACCESS TO DAILY NECESSITIES AND ESSENTIAL GOODS. ITS PRESENCE SUPPORTS THE RESIDENTIAL CHARACTER OF THE AREA AND ENHANCES THE OVERALL ACCESSIBILITY AND FUNCTIONALITY OF THE NEIGHBORHOOD.



OSMAN NEJAT KONUK SECONDARY SCHOOL (ONKO) IS LOCATED NEAR THE SITE, CONTRIBUTING TO THE EDUCATIONAL CHARACTER OF THE AREA AND INCREASING DAYTIME PEDESTRIAN ACTIVITY.



A SMALL LOCAL PARK, SANAT PARKI, IS LOCATED NEAR THE SITE, PROVIDING A GREEN PUBLIC SPACE WITHIN THE SURROUNDING RESIDENTIAL AREA. THE PARK SERVES A RECREATIONAL FUNCTION AND CREATES A VISUAL AND ENVIRONMENTAL BUFFER WITHIN THE URBAN FABRIC.



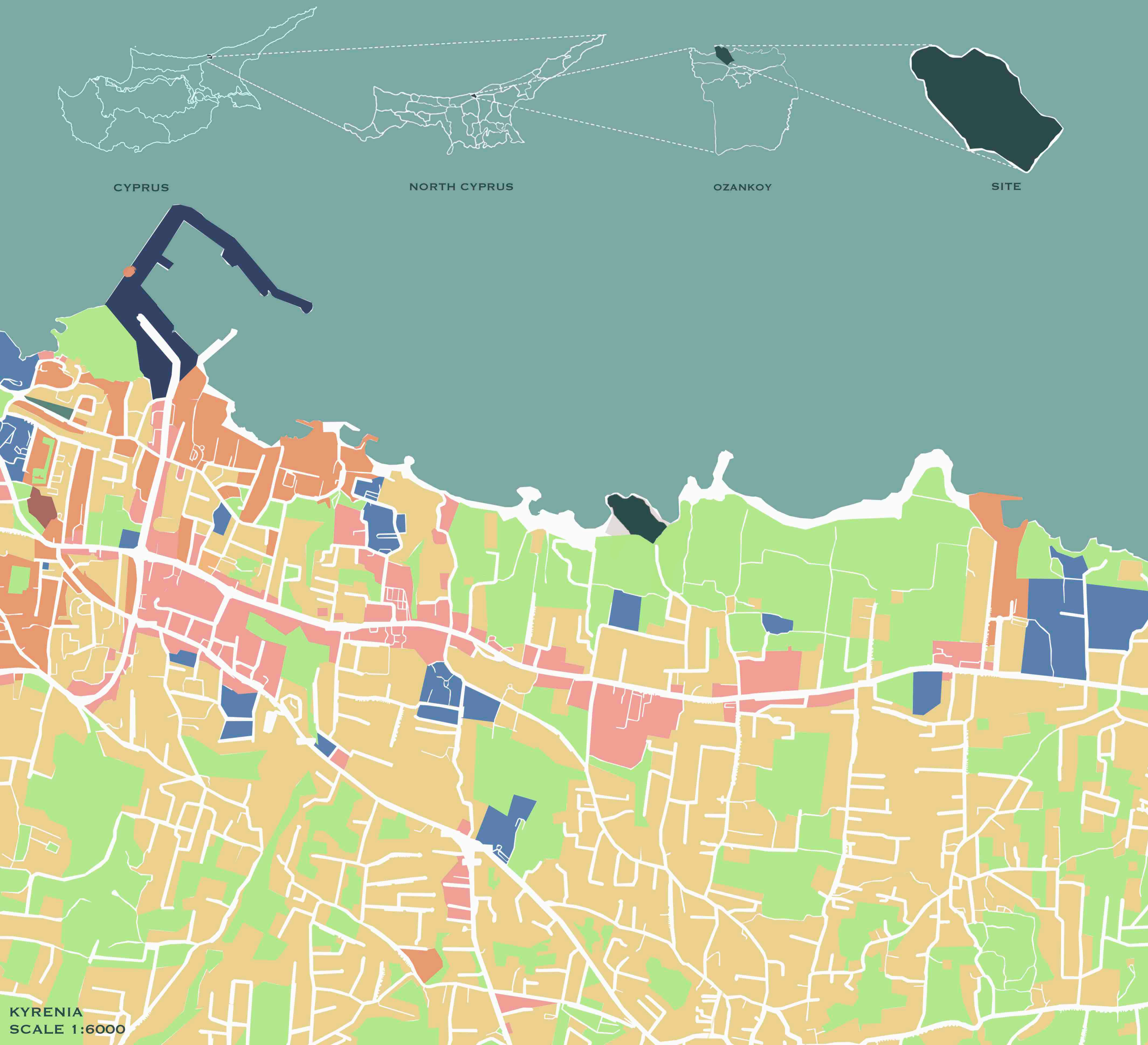
ANOTHER EDUCATIONAL INSTITUTION, DOĞA KOLEJİ GIRNE, IS LOCATED NEAR THE SITE, FURTHER STRENGTHENING THE EDUCATIONAL CHARACTER OF THE AREA. THE PRESENCE OF MULTIPLE SCHOOLS INCREASES DAYTIME PEDESTRIAN ACTIVITY AND CONTRIBUTES TO THE NEIGHBORHOOD'S FAMILY-ORIENTED RESIDENTIAL ENVIRONMENT.



A 13TH-CENTURY GOTHIC MONASTERY LOCATED IN THE MOUNTAINS ABOVE KYRENIA. IT'S VERY ATMOSPHERIC — STONE ARCHES, RUINS, AND PANORAMIC SEA VIEWS.

KYRENIA  
SCALE 1:7500






## SITE INTRODUCTION.

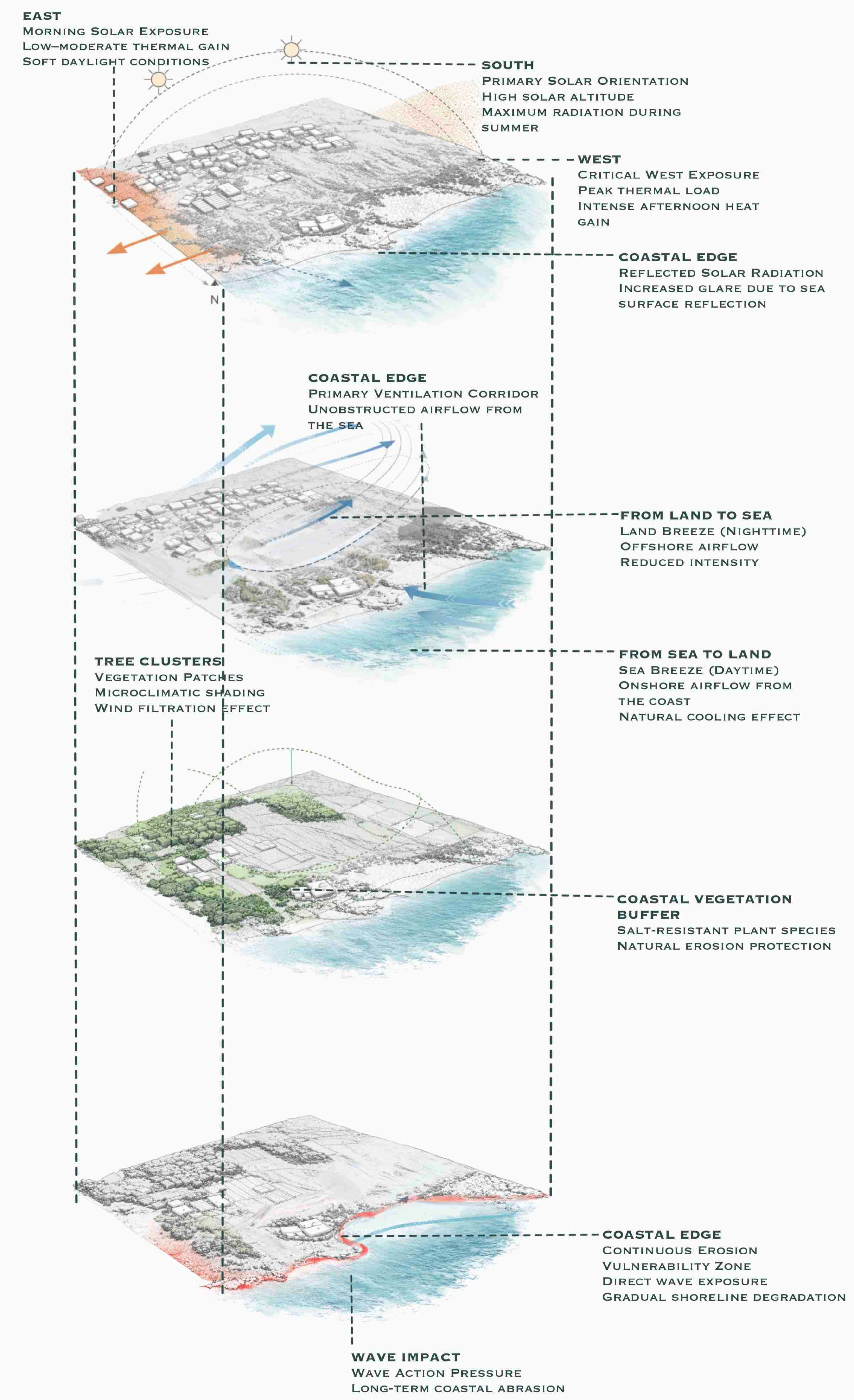
THE PROJECT SITE IS LOCATED ALONG THE NORTHERN COASTLINE OF CYPRUS, NEAR THE VILLAGE OF AŞKÖY, IN PROXIMITY TO THE INDUSTRIAL LANDMARK ZEYKO YAĞ FABRIKASI.

POSITIONED DIRECTLY ON THE MEDITERRANEAN SHORELINE, THE SITE IS DEFINED BY ROCKY COASTAL FORMATIONS, OPEN AGRICULTURAL FIELDS, AND SPARSE VEGETATION. THE AREA REPRESENTS A TRANSITIONAL LANDSCAPE BETWEEN NATURAL TERRAIN AND LIGHT INDUSTRIAL ACTIVITY, CREATING A UNIQUE DIALOGUE BETWEEN LAND, SEA, AND PRODUCTION.

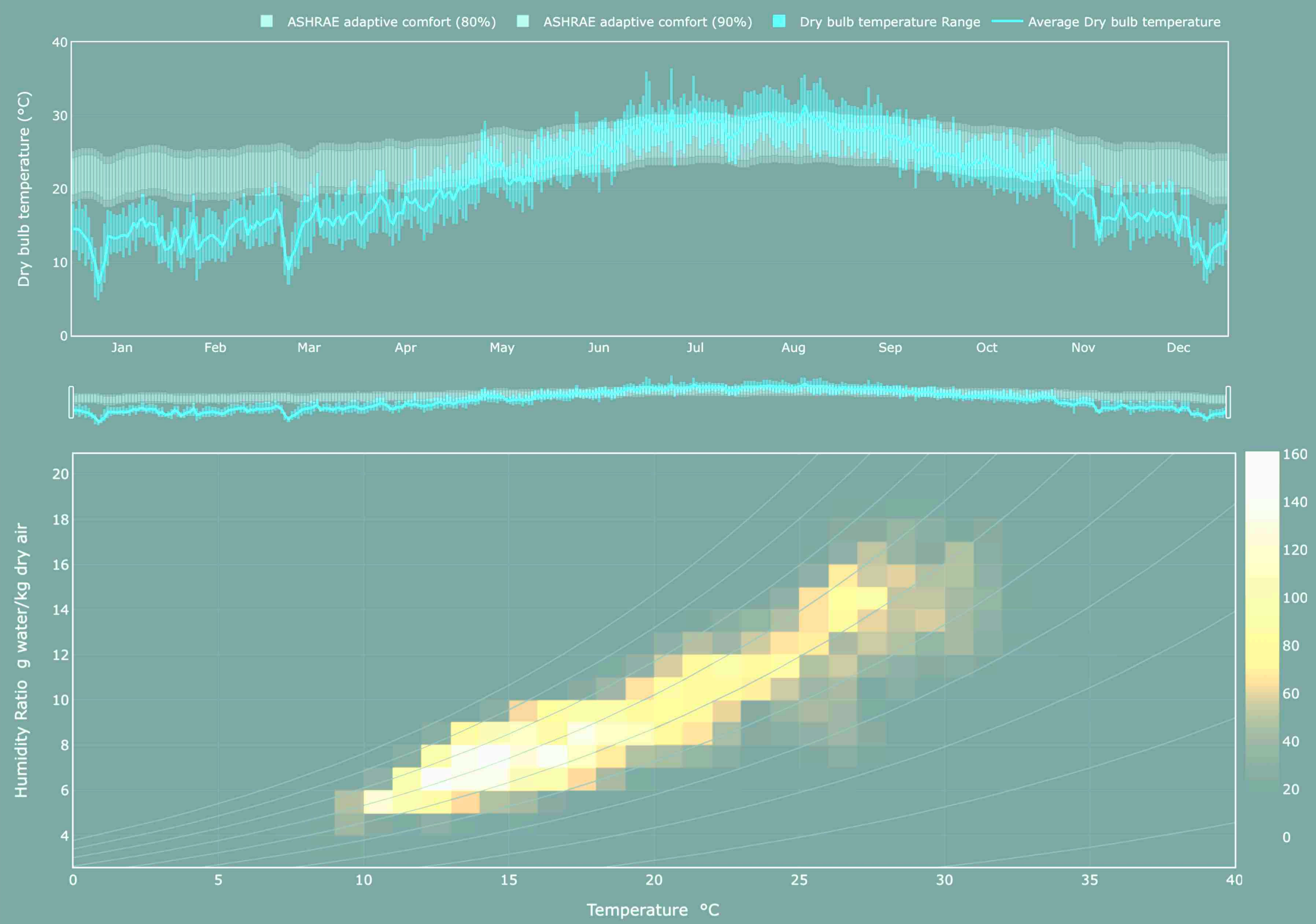
-  SITE
-  PAPKS/GREEN AREAS
-  RESIDENTIAL
-  MIXED-USE/URBAN
-  COMMERCIAL
-  PUBLIC/INSTITUTIONAL
-  SEAPORT
-  MILITARY BASE
-  CEMETERY

# MICRO-CLIMATE ANALYSIS.

03



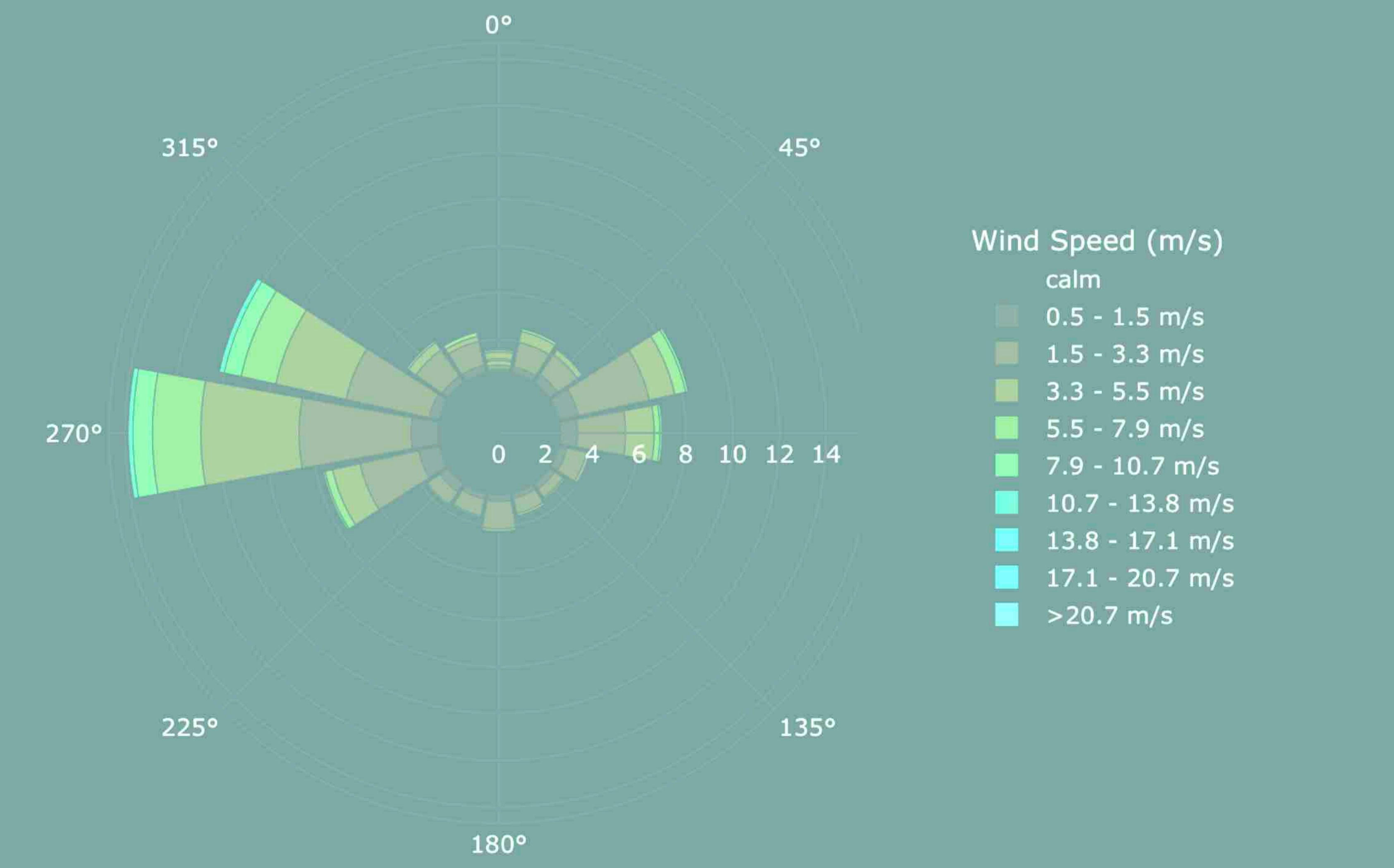
# CLIMATE ANALYSIS.



# CLIMATE SYNTHESIS.

THE SITE IS CHARACTERIZED BY A MEDITERRANEAN CLIMATE WITH HOT, DRY SUMMERS AND MILD, WETTER WINTERS. HIGH SUMMER TEMPERATURES (30–35°C) COMBINED WITH INTENSE SOLAR RADIATION CREATE SIGNIFICANT THERMAL STRESS, PARTICULARLY ALONG WESTERN FAÇADES. SEASONAL RAINFALL IS CONCENTRATED BETWEEN NOVEMBER AND MARCH, INFLUENCING SURFACE RUNOFF PATTERNS.

DUE TO ITS COASTAL POSITION, THE SITE BENEFITS FROM DAYTIME SEA BREEZES THAT ENHANCE NATURAL VENTILATION, WHILE THE GRADUAL SLOPE TOWARD THE SHORELINE INCREASES EROSION SENSITIVITY. THESE CLIMATIC CONDITIONS COLLECTIVELY INFORM THE NEED FOR SHADING STRATEGIES, WIND-ORIENTED MASSING, AND COASTAL BUFFER PROTECTION.



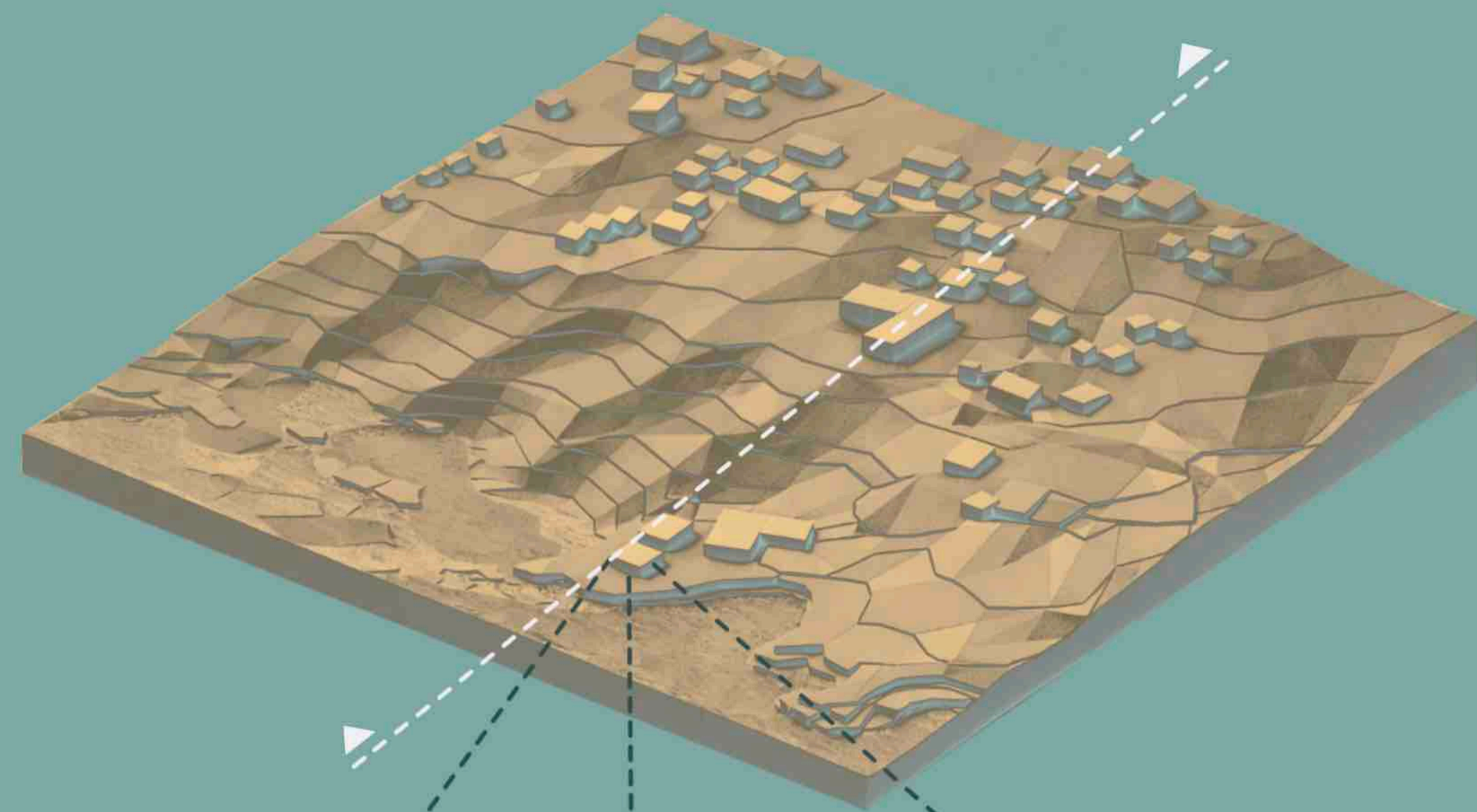
# TOPOGRAPHY.

04

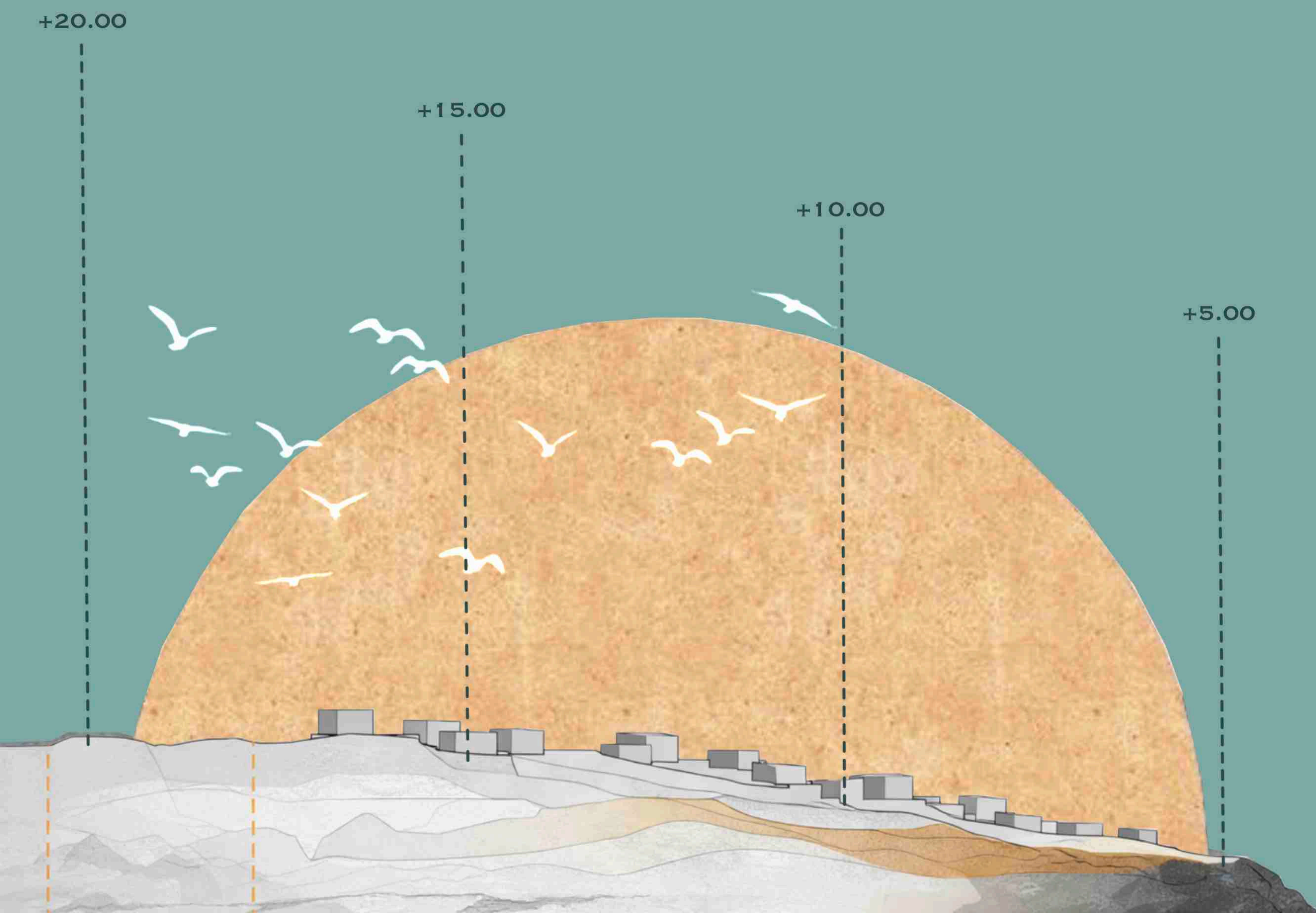
THE SITE SLOPES GRADUALLY FROM THE INLAND URBAN AREA TOWARD THE COASTLINE. CONTOUR LINES SHOW A MODERATE ELEVATION CHANGE, CREATING A NATURAL SOUTH-NORTH GRADIENT TOWARD THE SEA.

THIS TOPOGRAPHY DIRECTS STORMWATER RUNOFF TOWARD THE COASTAL EDGE, INCREASING EROSION SENSITIVITY NEAR THE SHORELINE. ELEVATED AREAS PROVIDE STRONGER SEA VIEWS AND BETTER BUILDING POTENTIAL, WHILE LOWER ZONES ARE MORE ENVIRONMENTALLY VULNERABLE.

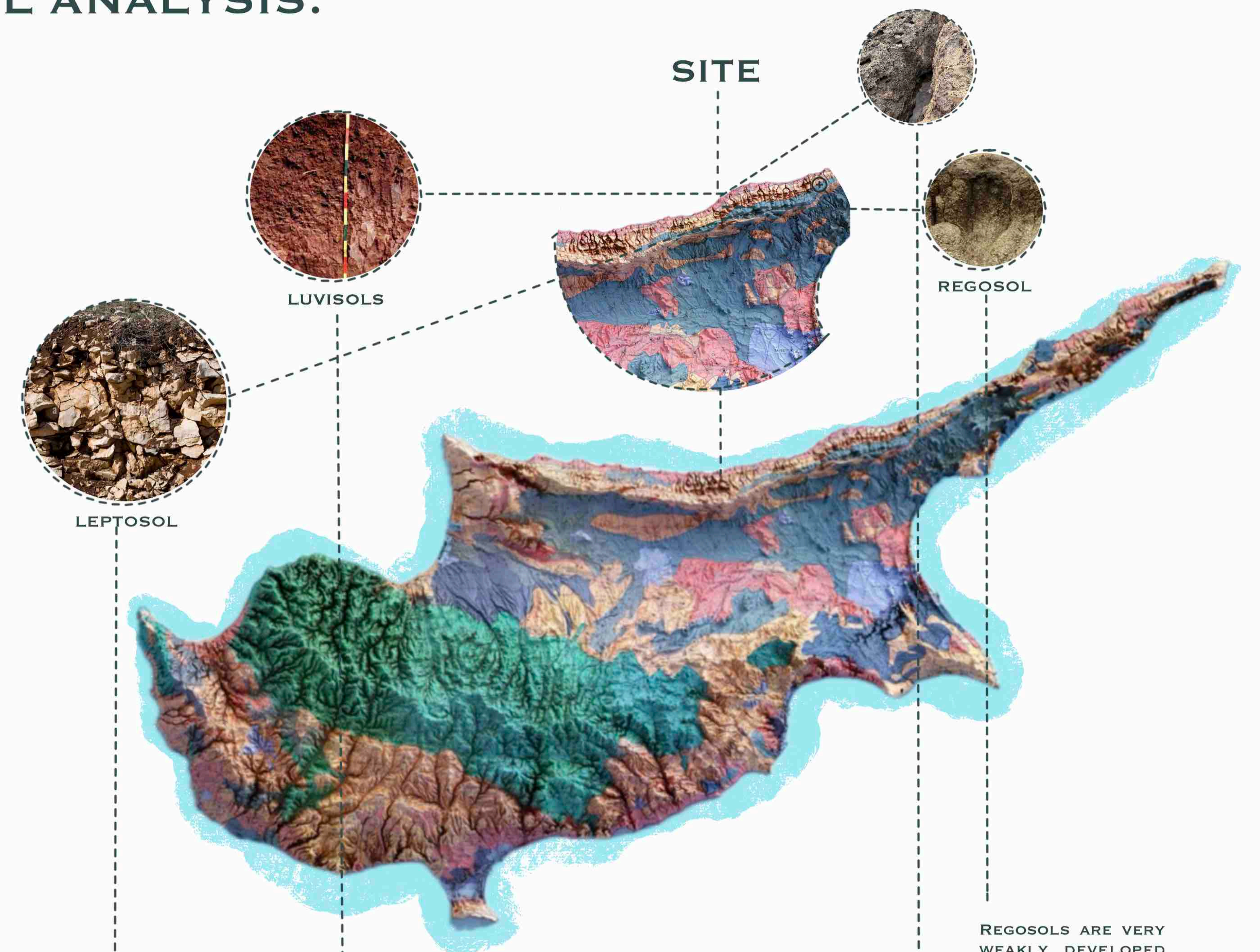
OVERALL, THE TERRAIN STRUCTURES VIEWS, DRAINAGE, AND SPATIAL HIERARCHY ACROSS THE SITE.



# CROSS SECTION.



# SOIL ANALYSIS.



LEPTOSOL IS ONE OF THE FOUR REFERENCE SOIL GROUPS THAT OCCUPY MORE THAN 10 OF THE AREA OF THE EUROPEAN UNION. LEPTOSOLS ARE PRESENT THROUGHOUT EUROPE. HOWEVER, THEY ARE MOST TYPICAL IN THE MEDITERRANEAN. THE MAJORITY OF THE SOIL TYPES OF CYPRUS IS LEPTOSOLS

LUVISOLS ARE FERTILE, BASE-RICH SOILS DEFINED BY AN ARGIC SUBSURFACE HORIZON (BT) CONTAINING A HIGHER CLAY CONTENT THAN THE SURFACE SOIL, OFTEN APPEARING BROWN OR REDDISH. THEY FORM IN TEMPERATE CLIMATES, FEATURE HIGH CATION EXCHANGE CAPACITY (CEC), AND ARE HEAVILY USED FOR AGRICULTURE, INCLUDING GRAIN, ORCHARD, AND VINEYARD CULTIVATION.

A ROCKY SHORE IS AN INTERTIDAL AREA OF SEACOASTS WHERE SOLID ROCK PREDOMINATES. ROCKY SHORES ARE BIOLOGICALLY RICH ENVIRONMENTS, AND ARE A USEFUL "NATURAL LABORATORY" FOR STUDYING INTERTIDAL ECOLOGY AND OTHER BIOLOGICAL PROCESSES. DUE TO THEIR HIGH ACCESSIBILITY, THEY HAVE BEEN WELL STUDIED FOR A LONG TIME AND THEIR SPECIES ARE WELL KNOWN

REGOSOLS ARE VERY WEAKLY DEVELOPED MINERAL SOILS FORMED IN UNCONSOLIDATED, WEATHERED MATERIALS (LIKE SAND, LOESS, OR GLACIAL TILL) FOUND WORLDWIDE, PARTICULARLY IN ARID, MOUNTAINOUS, OR RECENTLY ERODED LANDSCAPES. THEY POSSESS MINIMAL SOIL PROFILE DEVELOPMENT AND HAVE LIMITED AGRICULTURAL VALUE, OFTEN USED FOR GRAZING OR FORESTRY.

# FLORA/FAUNA



LOW SHRUBS  
WILD GRASSES



PINE TREES



BUSHES  
PALM TREES



CYPRUS WHEATEAT

CITY LEVEL ANALYSIS.  
05



FIGURE/GROUND  
SCALE 1:6000







ROAD MAP  
SCALE 1:6000



ACCESSIBILITY MAP  
SCALE 1:6000

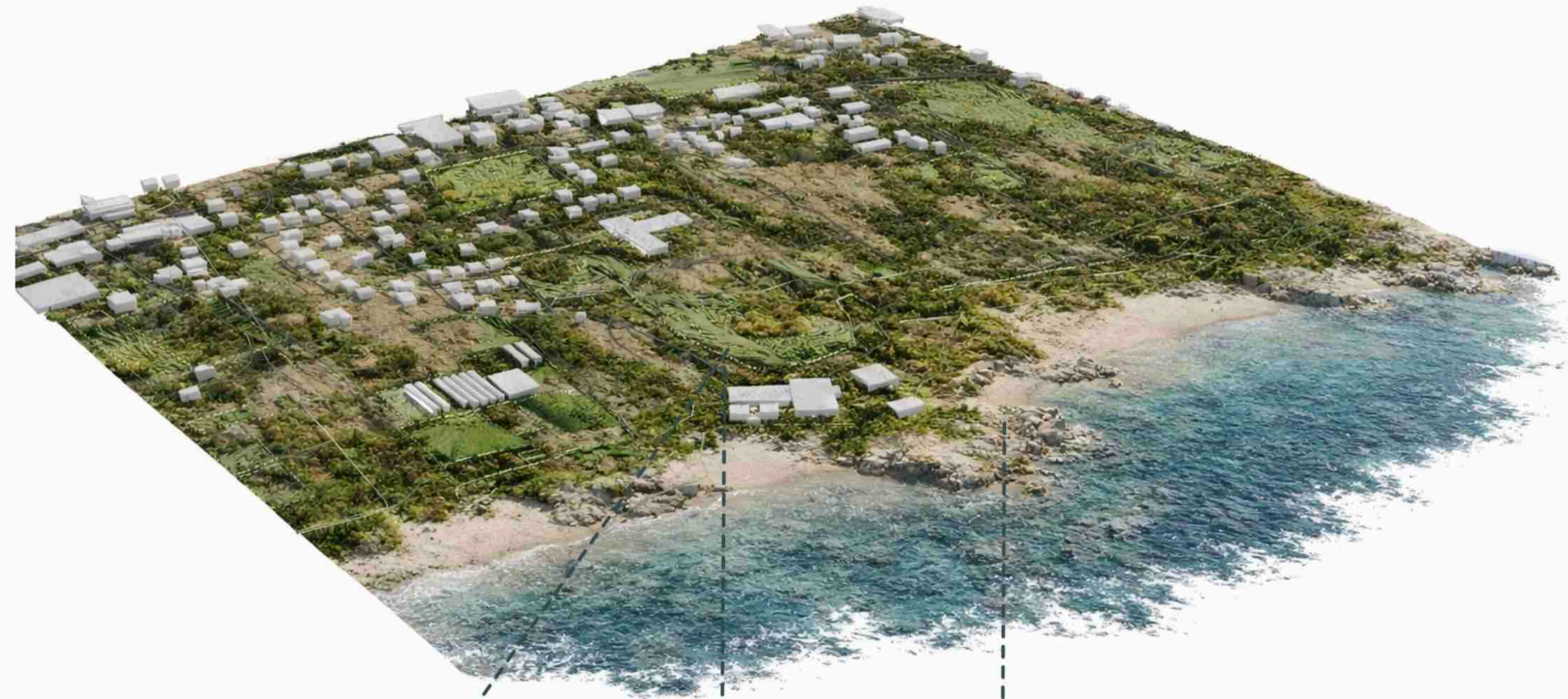
LYNCH ANALYSIS.  
KYRENIA  
SCALE 1:6000



-  PATHS
-  EDGES
-  NODES
-  LANDMARKS

# VIEWS.

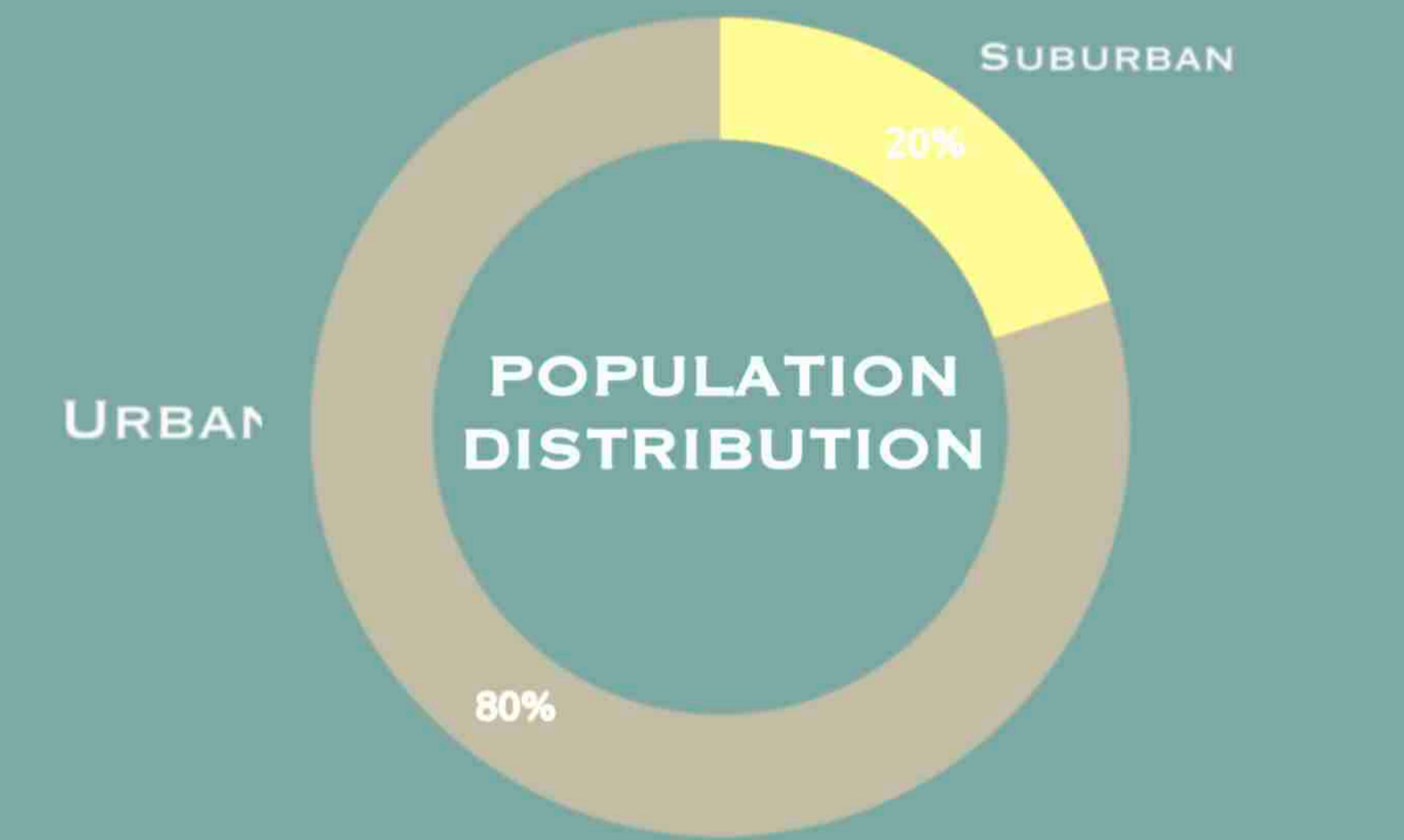
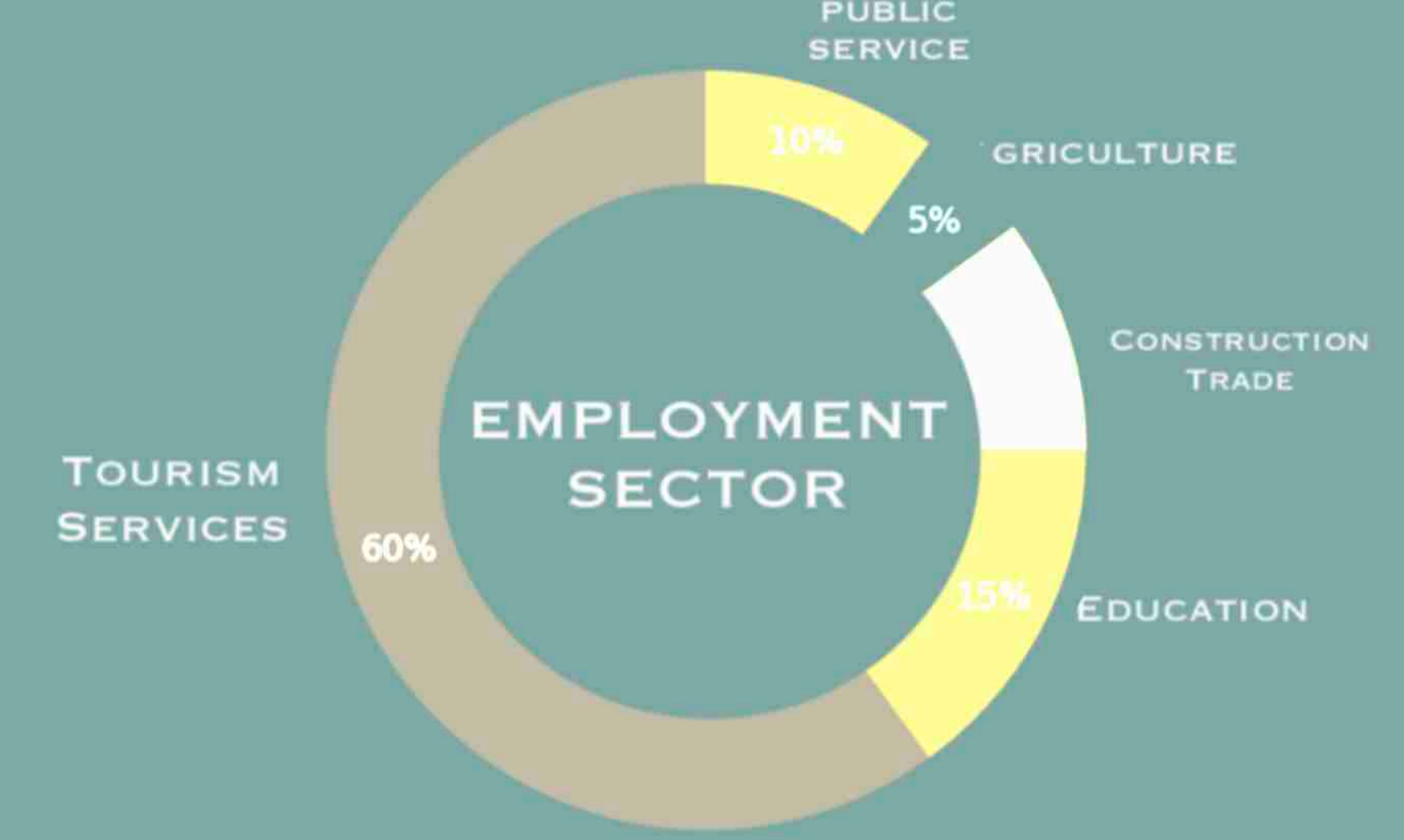
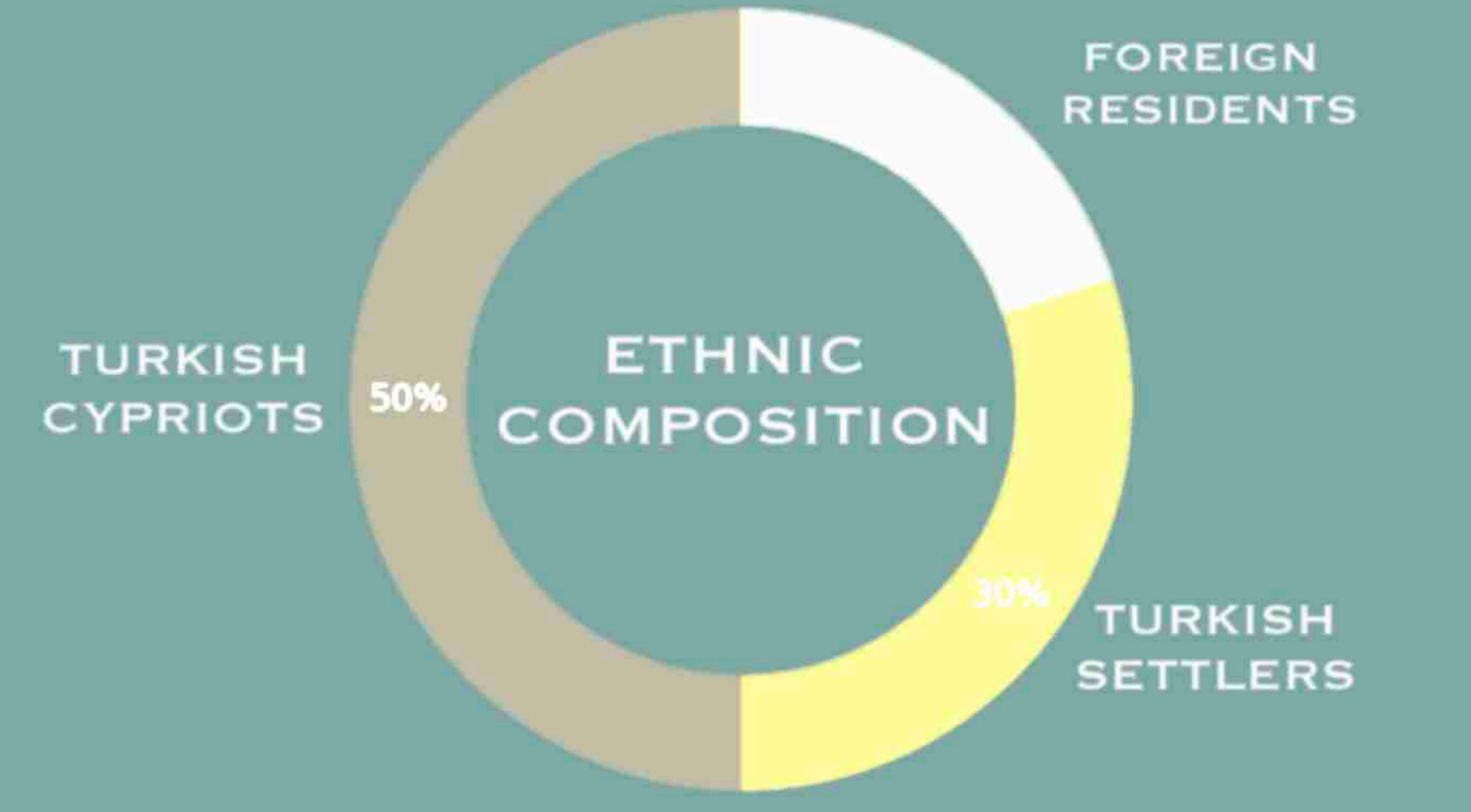
## 06



# BUILDING HEIGHTS.

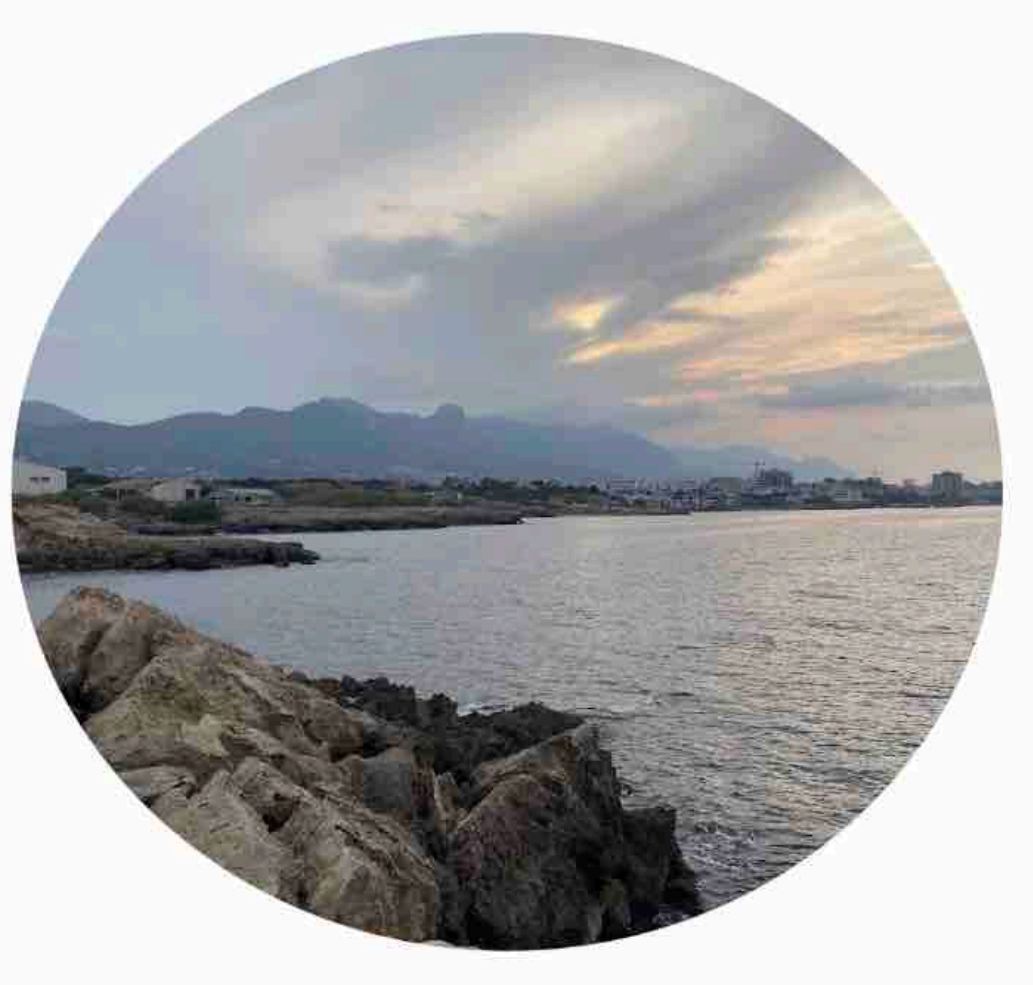


# SOCIAL ANALYSIS.



# VISTA.

ZEYKO BEACH



GIZLI KOY



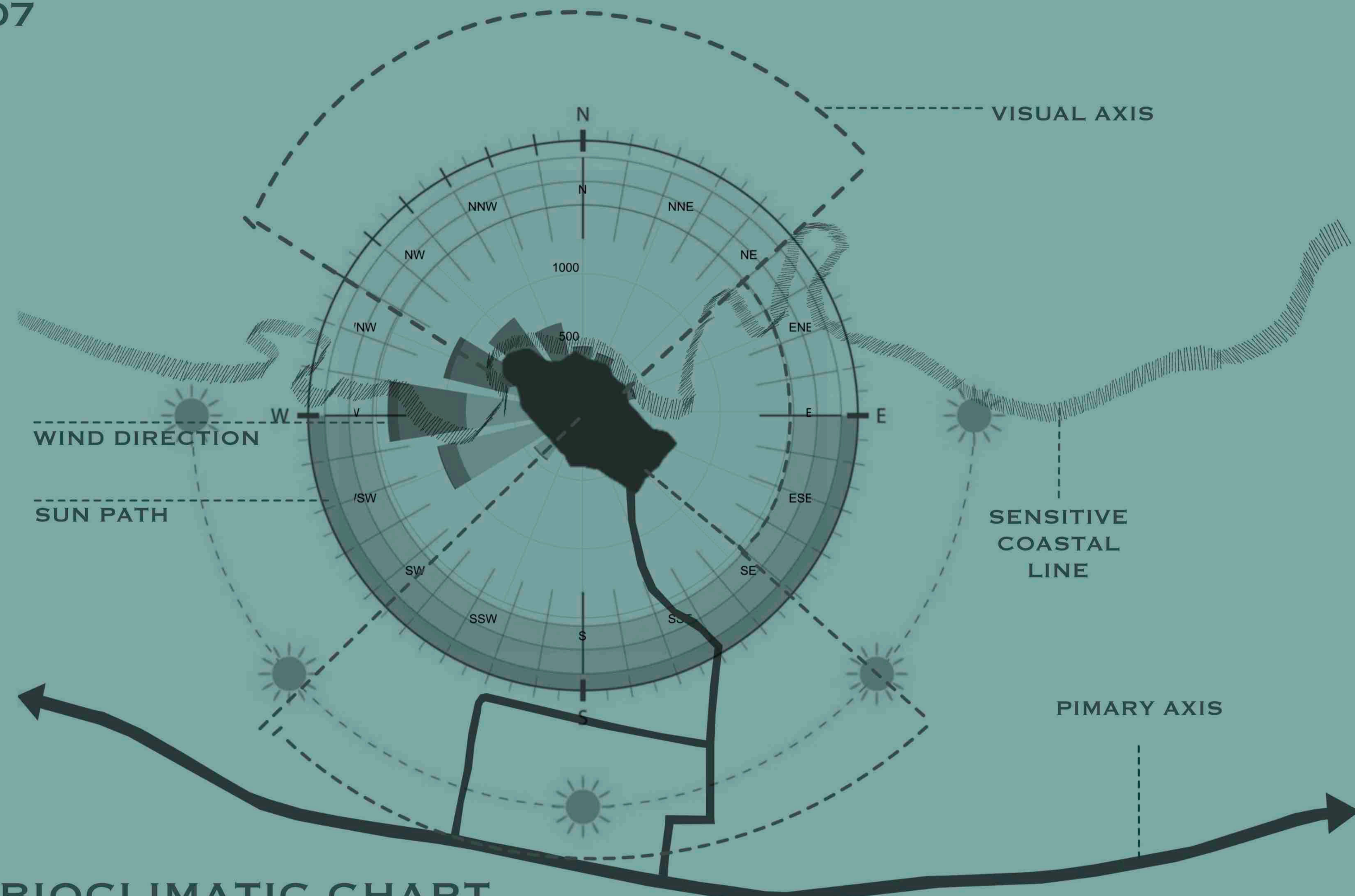
ASKKOY



# BUILDING HEIGHTS.

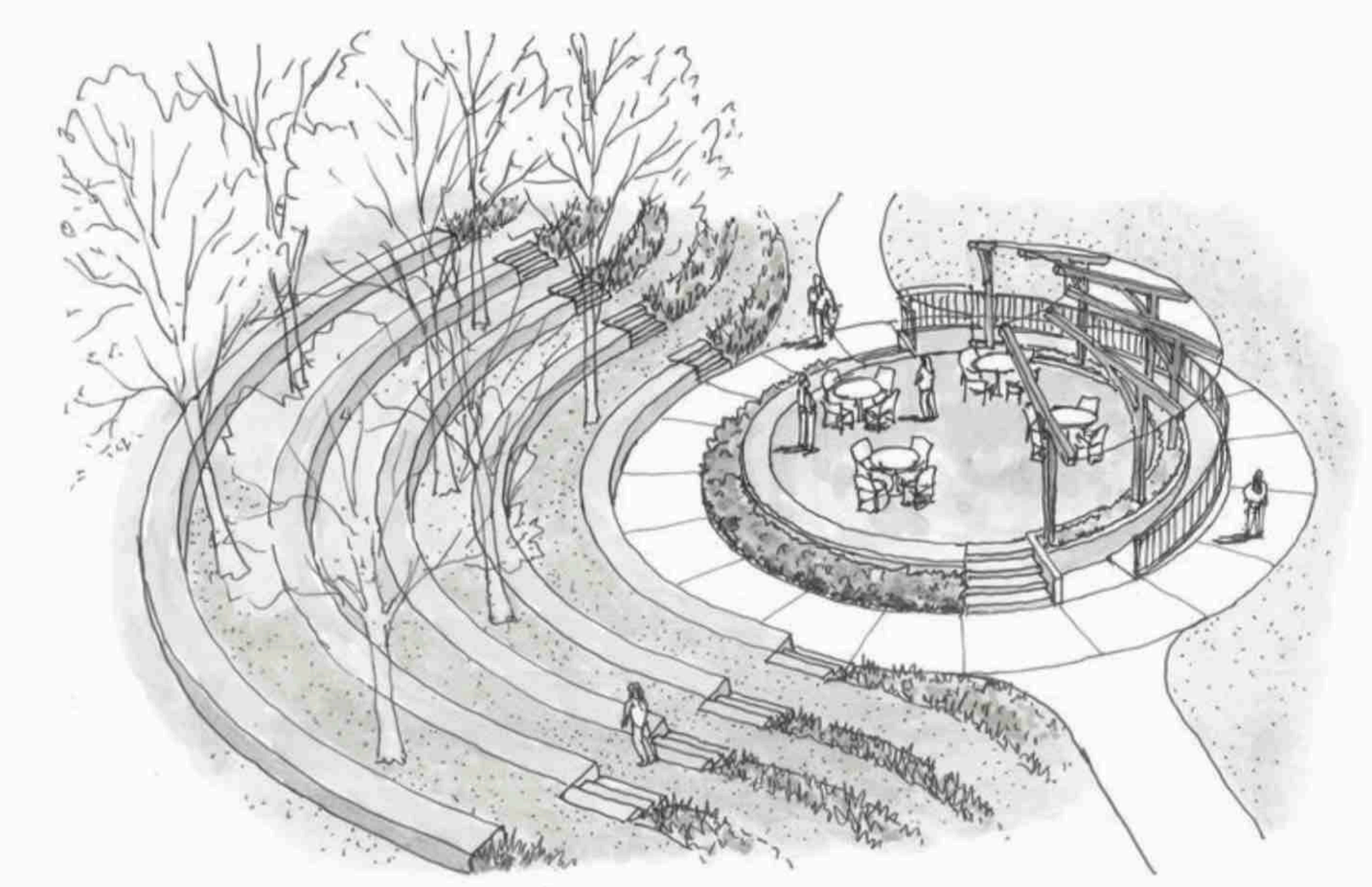
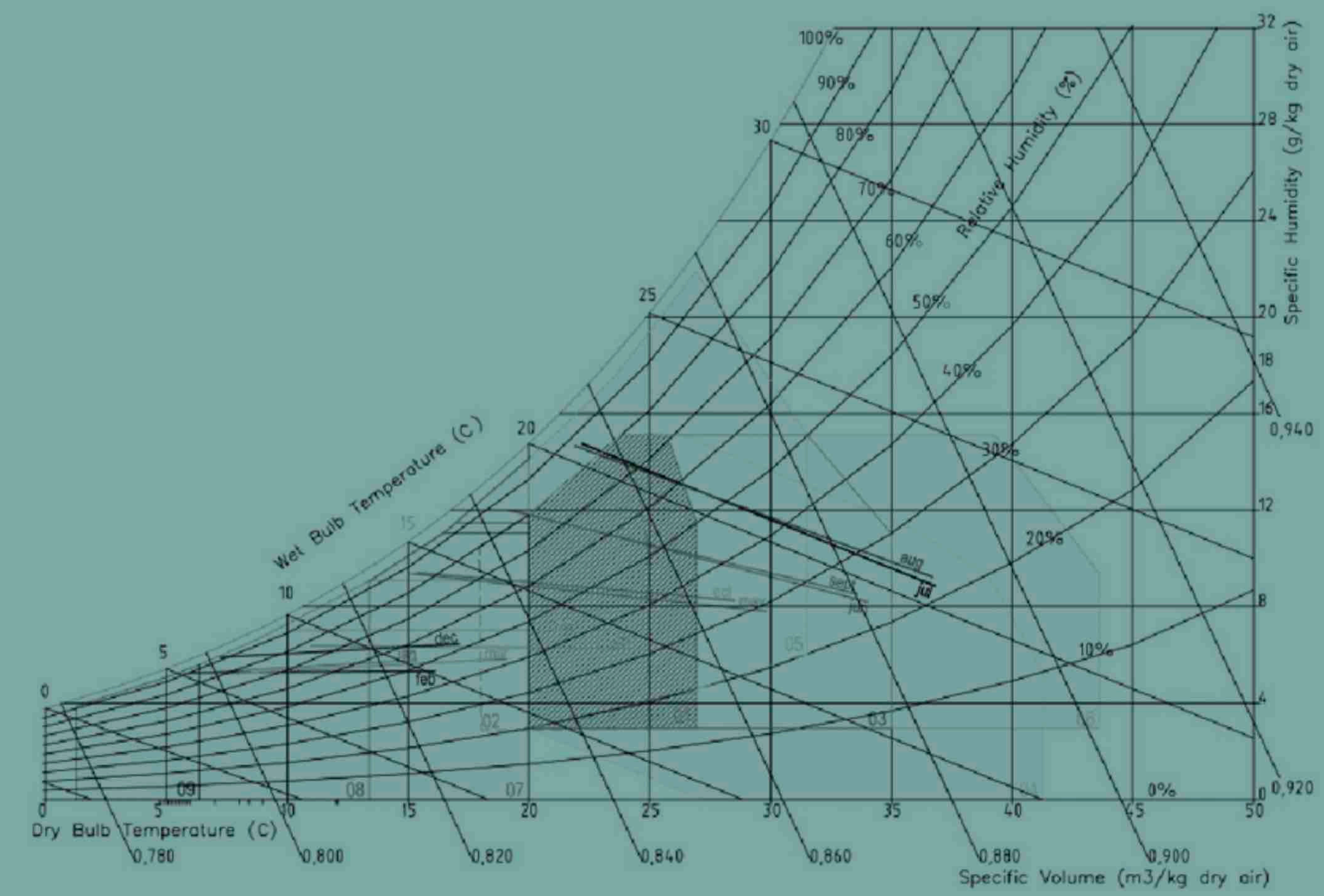
Storeys	% of Area
1-2 storeys	70%
3-4 storeys	20%
5+ storeys or more	10%
Total	100%

THE SURROUNDING URBAN FABRIC IS PREDOMINANTLY LOW-RISE (1-2 FLOORS), WITH MODERATE MID-RISE DEVELOPMENT (3-4 FLOORS) CONCENTRATED ALONG THE PRIMARY ROAD AXIS. THE HEIGHT DISTRIBUTION ALLOWS SUFFICIENT DAYLIGHT PENETRATION, NATURAL VENTILATION FROM THE COASTLINE, AND PARTIAL VISUAL CORRIDORS TOWARDS THE SEA. ANY SIGNIFICANT VERTICAL INCREASE BEYOND 4 FLOORS WOULD ALTER THE EXISTING SKYLINE AND MICROCLIMATIC BALANCE.

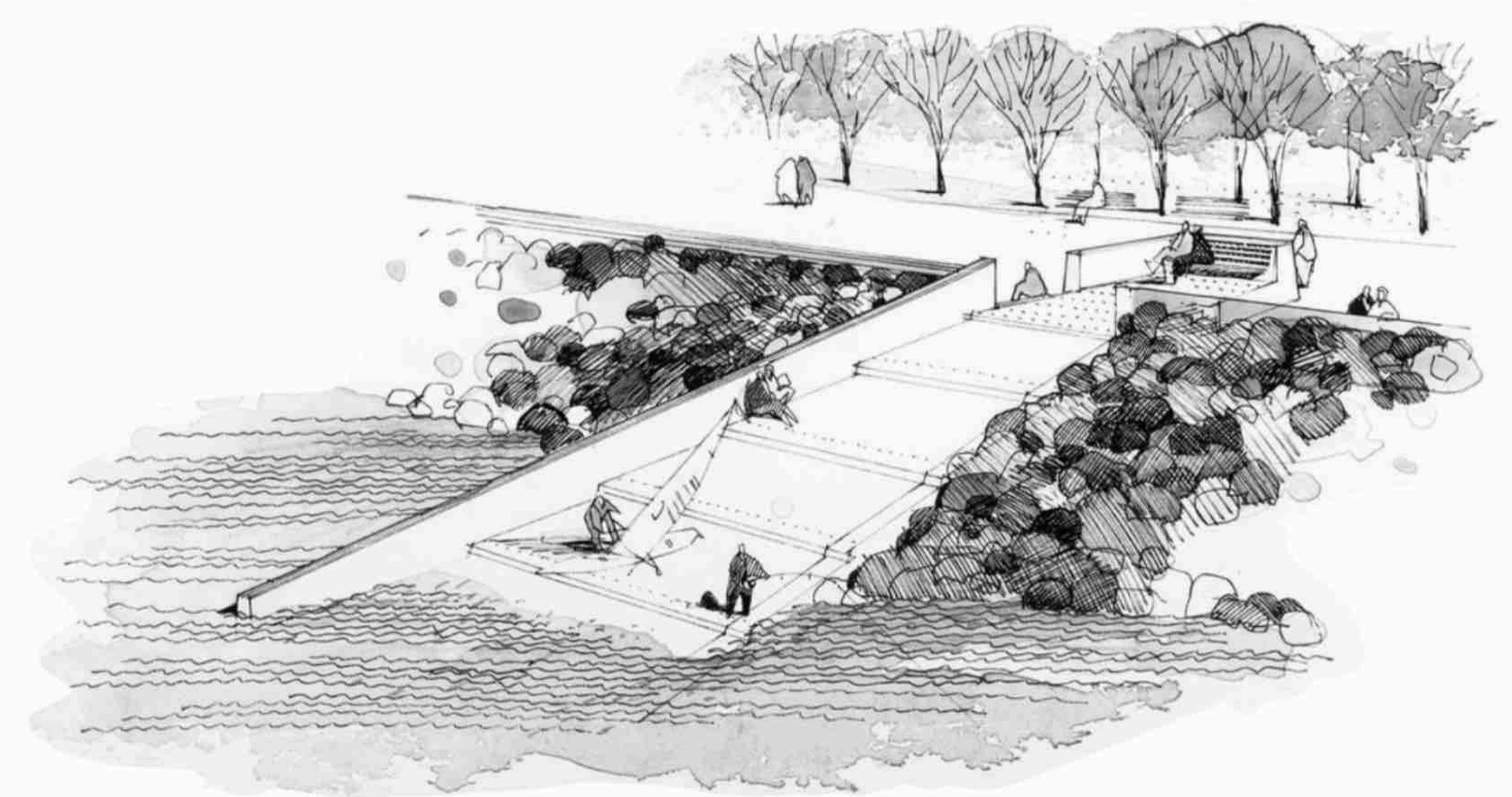


**BIOCLIMATIC CHART.**

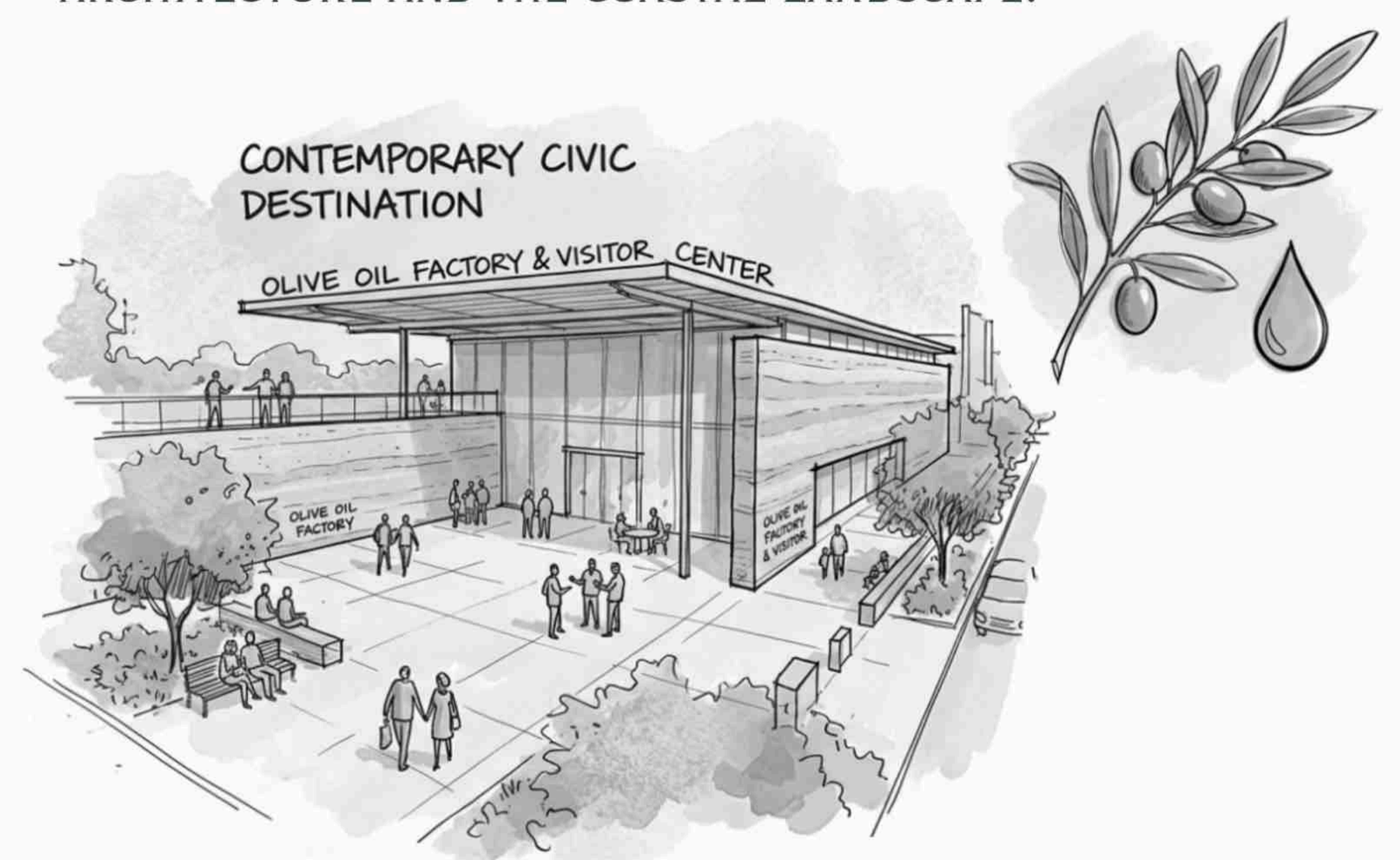
- 01 Summer comfort zone
- 02 Winter comfort zone
- 03 Thermal mass
- 04 Evaporative cooling
- 05 Ventilation
- 06 Night ventilation
- 07 Internal gains
- 08 Passive solar systems
- 09 Active solar systems



**COURTYARDS + CROSS VENTILATION**  
**PASSIVE CLIMATE STRATEGY**  
OPEN COURTYARDS ENABLE NATURAL VENTILATION AND COOLING IN THE MEDITERRANEAN CLIMATE.

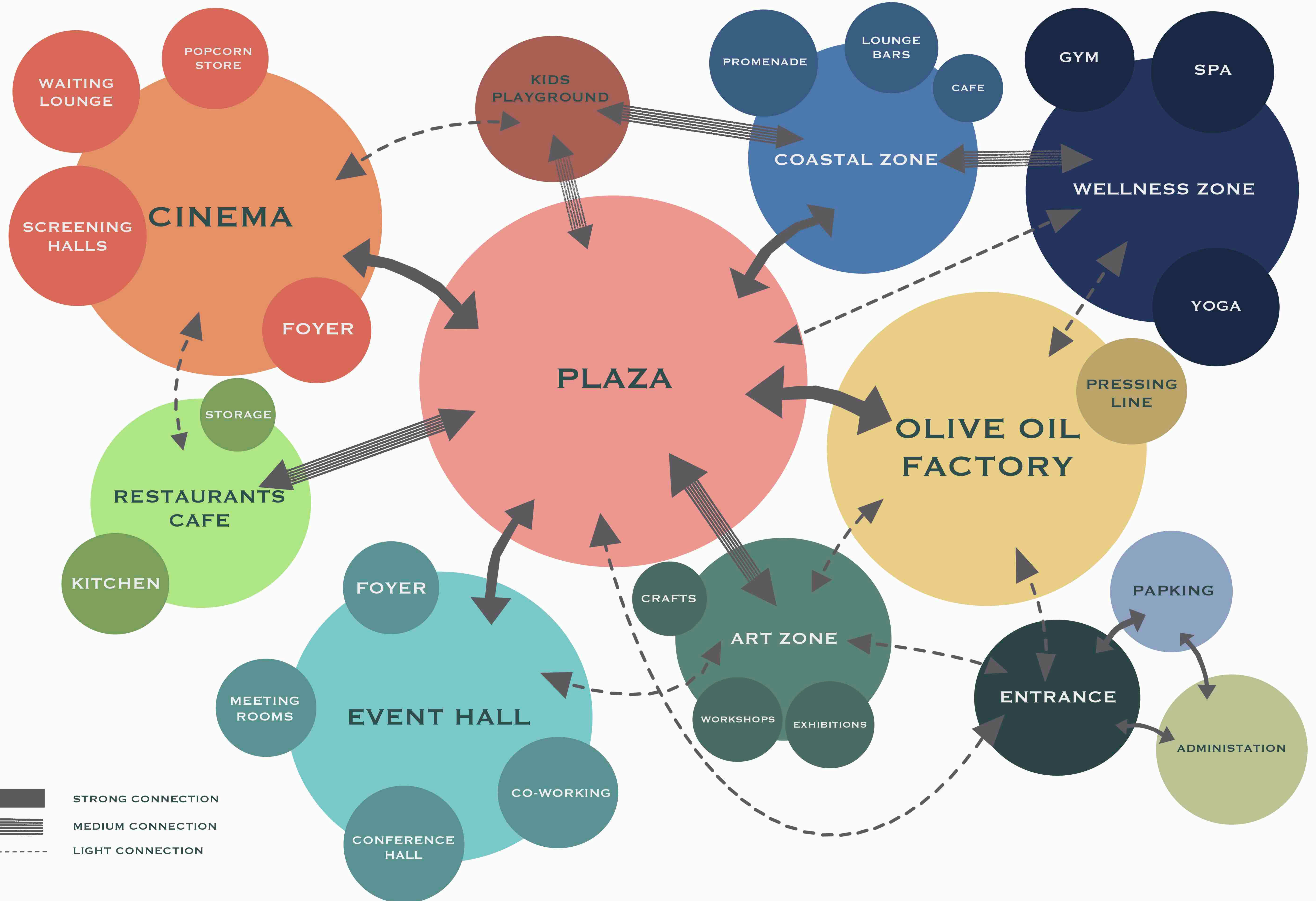


**PUBLIC PROMENADE CONNECTION**  
THIS PEDESTRIAN ROUTE ENCOURAGES MOVEMENT, SOCIAL INTERACTION, AND PUBLIC ACCESS TO THE WATERFRONT WHILE STRENGTHENING THE RELATIONSHIP BETWEEN ARCHITECTURE AND THE COASTAL LANDSCAPE.



**OLIVE PRODUCTION HERITAGE**  
TRADITIONAL OLIVE OIL PRODUCTION IS REINTERPRETED AS A CONTEMPORARY CIVIC AND CULTURAL EXPERIENCE.

**BUBBLE DIAGRAM.**  
07



-  STRONG CONNECTION
-  MEDIUM CONNECTION
-  LIGHT CONNECTION

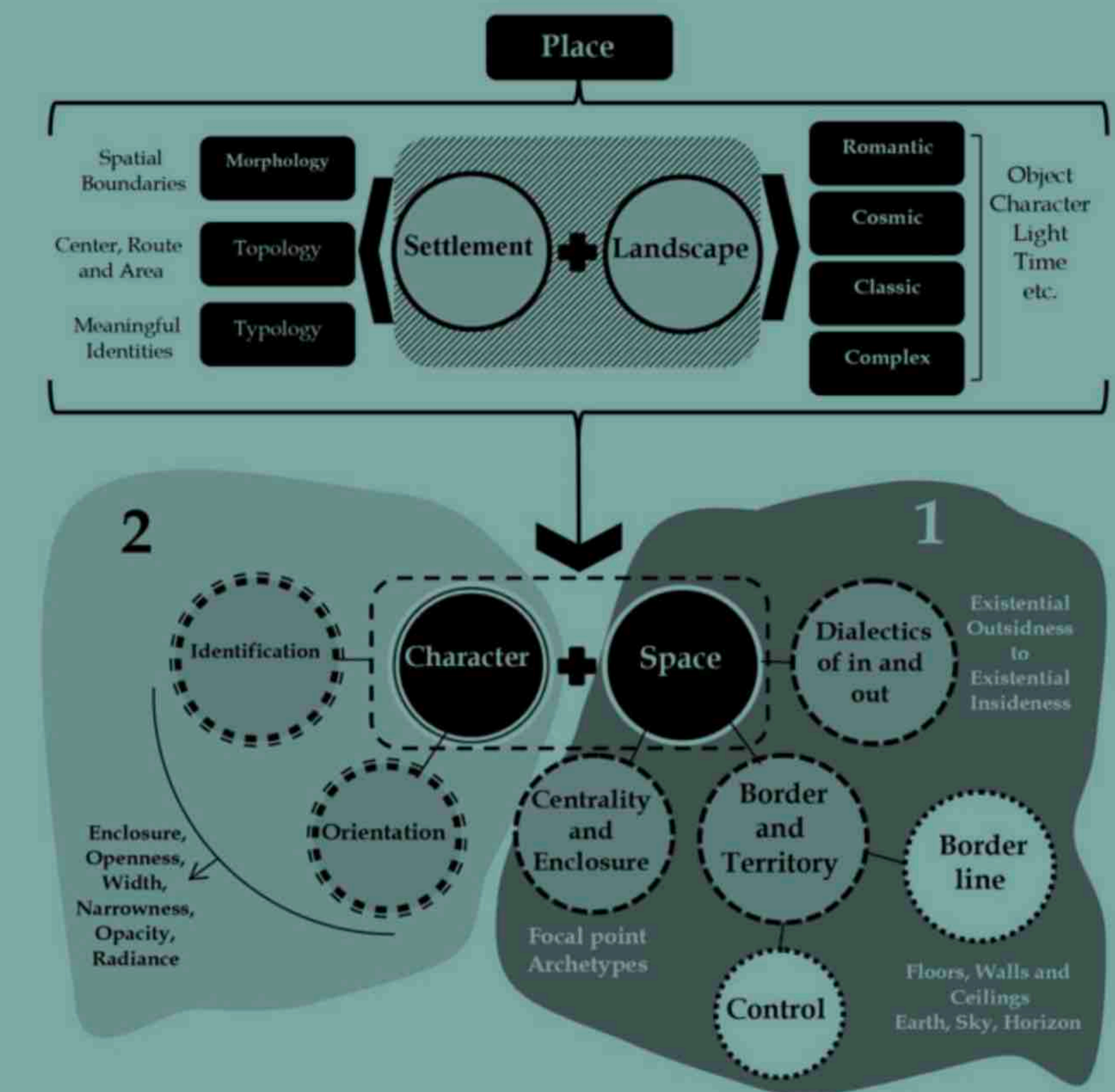
# ARCHITECTURAL TABLE PROGRAM.

## 09

Zone	Space	Function	Subspaces	Description	NO	Area(m)	%	Typology	Standards	Scenario
A	Entrance	Public Access	Info Desk,Circulation	Main entry orientation spaces	1	350	3.5%	Public	Universal design, ADA access	Arrival+ Orientation
	Administration	Management	Offices, Meeting room, Storage, Staff lounge	Operational management zone	1	250	2.0%	Private	Office workplace standards	Staff workspace
B	Cultural Workshops	Education	Kids/Crafts/ Painting Workshops, Storage	Creative learning	3	600	6.0%	Educational	Educational studio standards	Daily programs
	Art Galery	Cultural Display	Exhibition Hall, Storage	Temporary exhibitions & installations	1	500	5.0%	Public	Museum display standards	Art/Installation
C	Digital library	Learning	Reading areas, digital stations	Quiet study space	1	600	6.0%	Educational	Library acoustic + Lightning	Study+ Research
	Reading Café	Social	Cafe counter + seating	Relaxed reading environment	1	300	3.0%	Social	Food service standards	Informal gathering
	Book Store	Retail	Display + cashier	Book retail	1	150	1.5%	Commercial	Retail design standards	Visitor purchases
D	Meeting Rooms/ Co-working	Civic	Meeting rooms, desks	Collaborative work	4	700	7.0%	Civic	Flexible workspace standards	Community work
	Conference Halls	Events	2 halls + foyer	Talks & lectures	2	900	9.0%	Civic	Conference/ Auditorium	Public events
E	Cinema	Entertainment	Screening hall	Film projection	1	600	6.0%	Public	Cinema acoustic + Projection	Movies
	Cinema Foyer	Public Space	Ticket, waiting	Cinema access zone	1	250	2.5%	Public	Public assembly standards	Queue/Waiting
F	Restaurant	Food	Dining hall + kitchen	Main dining destination	1	500	5.0%	Social	Commercial kitchen codes	Dining
	Café	Food	Cafe seating	Casual refreshments	2	330	3.3%	Social	Food service standards	Short visits
	Lounge/Bars	Relaxation	Bar + seating	Evening social space	1	260	2.6%	Social	Hospitality design standards	Night activities
G	Wellness Center	Health	Gym, yoga, spa	Health programs	1	700	7.0%	Wellness	Fitness facility standards	Fitness
H	Olive Oil Factory	Production+ Cultural	Pressing line, tasting	Visitor olive oil experience	1	1500	15.0%	Productive	Food production+ Hygiene standards	Factory tour
I	Public WC	Support	Male, female, accessible	Sanitary facilities	6	260	2.6%	Support	International WC standards	Public use
	Maintenance	Support	Cleaning rooms, storage	Building service spaces	4	200	2.0%	Support	MEP maintenance standards	Facility Servise
	Circulation	Movement	Corridors, stairs	Internal movement		700	7.0%	Circulation	Fire edges codes	Access between spaces

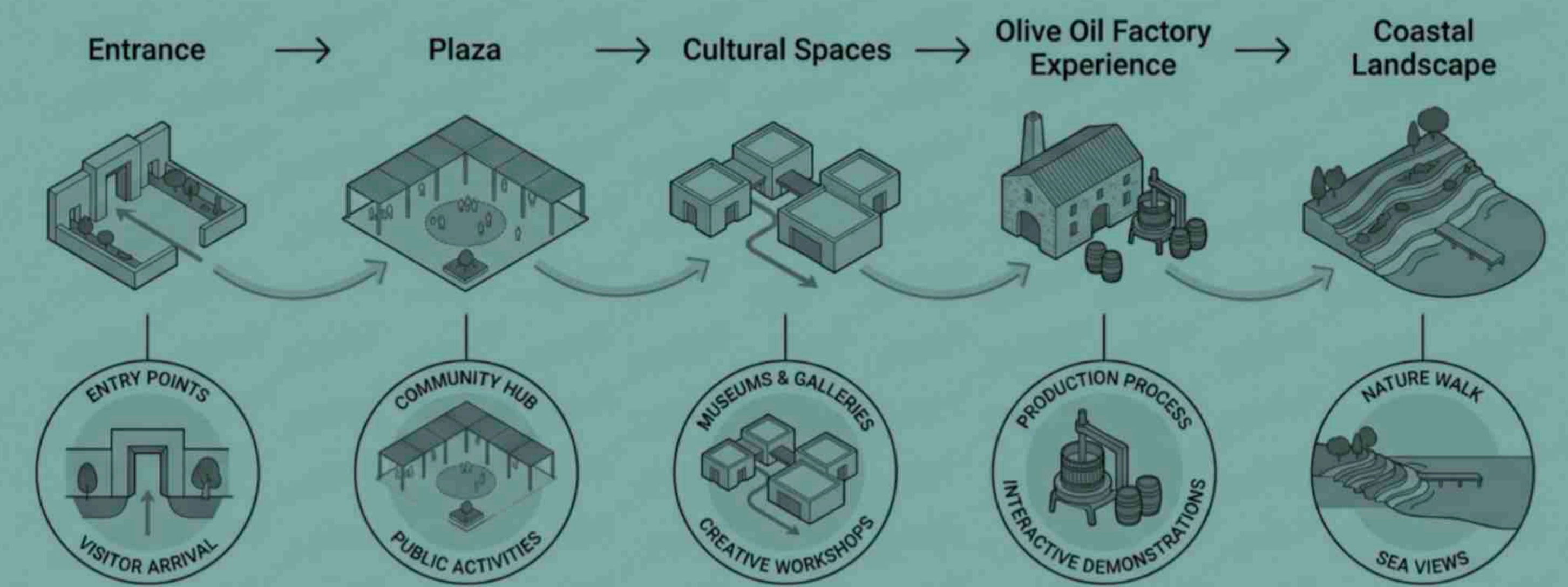
## PHENOMENOLOGY OF PLACE — CHRISTIAN NORBERG-SCHULZ

IN *\*GENIUS LOCI: TOWARDS A PHENOMENOLOGY OF ARCHITECTURE\** (1980), CHRISTIAN NORBERG-SCHULZ ARGUES THAT ARCHITECTURE SHOULD REVEAL AND STRENGTHEN THE SPIRIT OF PLACE. PLACES POSSESS IDENTITIES SHAPED BY TOPOGRAPHY, CLIMATE, CULTURAL TRADITIONS, AND HISTORICAL MEMORY.



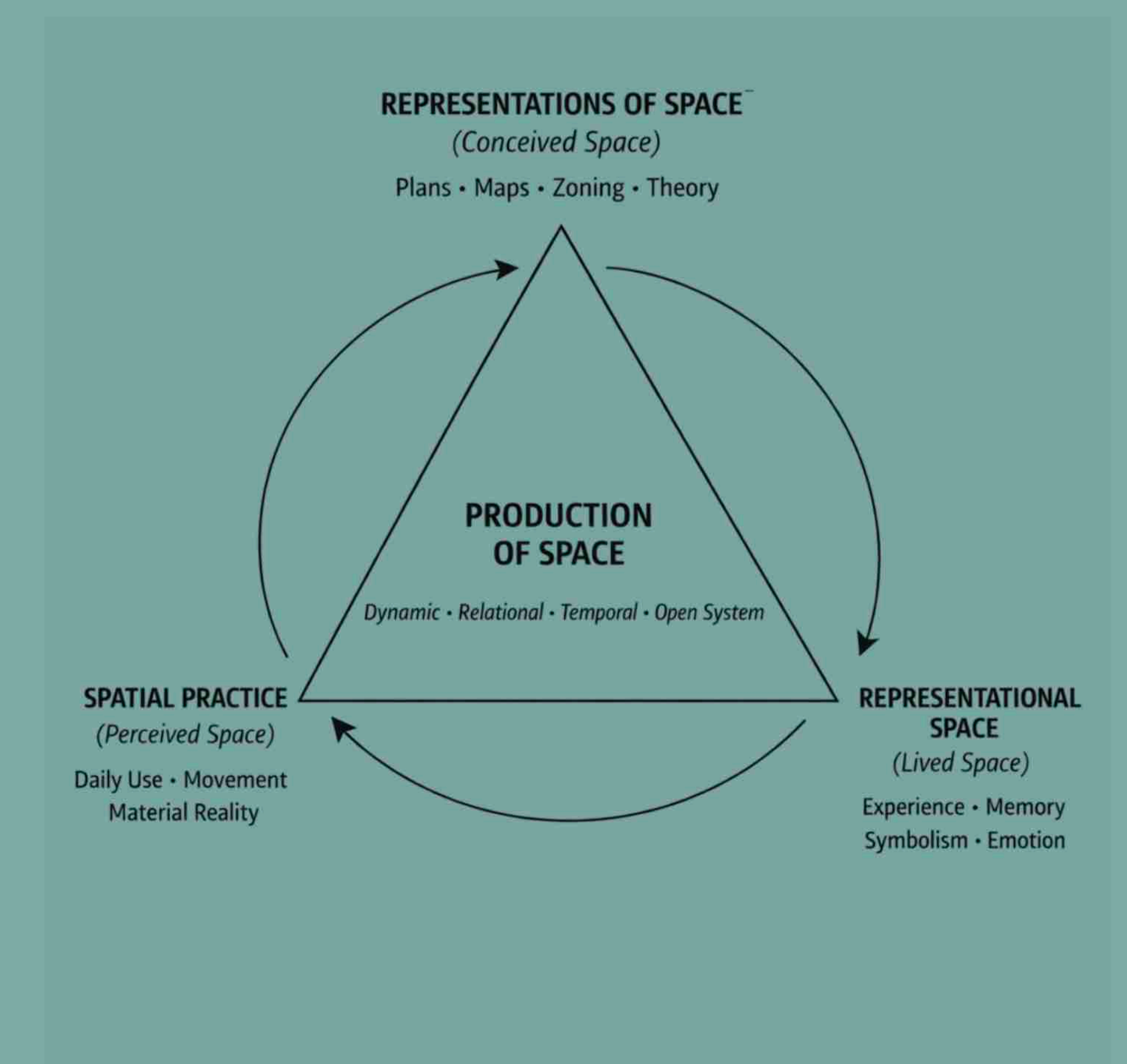
## EXPERIENTIAL ARCHITECTURE — GASTON BACHELARD

IN *\*THE POETICS OF SPACE\** (1958), GASTON BACHELARD SHIFTS ARCHITECTURAL THINKING FROM PURELY FUNCTIONAL INTERPRETATIONS TOWARD THE EXPERIENTIAL AND PSYCHOLOGICAL DIMENSIONS OF SPACE. ARCHITECTURE IS EXPERIENCED AS A SEQUENCE OF SPATIAL SITUATIONS RATHER THAN A STATIC OBJECT.



## SOCIAL PRODUCTION OF SPACE — HENRI LEFEBVRE

HENRI LEFEBVRE'S *\*THE PRODUCTION OF SPACE\** (1974) ARGUES THAT SPACE IS NOT A NEUTRAL CONTAINER BUT A SOCIAL PRODUCT SHAPED BY CULTURAL PRACTICES AND EVERYDAY ACTIVITIES. HIS SPATIAL TRIAD CONSISTS OF: SPATIAL PRACTICE — HOW PEOPLE USE SPACE, REPRESENTATIONS OF SPACE — HOW ARCHITECTS DESIGN SPACE, REPRESENTATIONAL SPACE — HOW PEOPLE EXPERIENCE SPACE.



# CASE STUDIE 1.

## DARLING HARBOUR REDEVELOPMENT

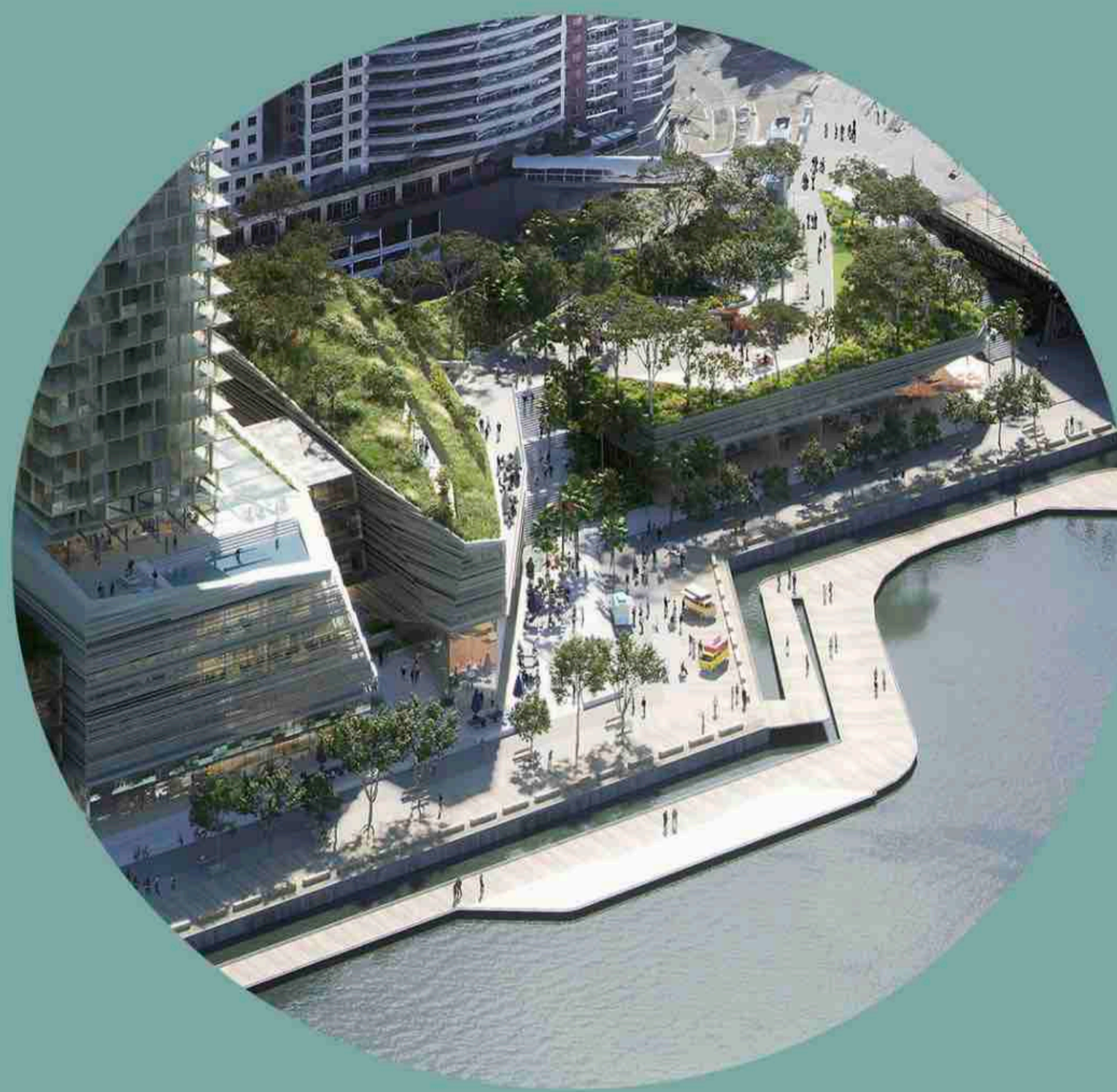
**LOCATION:** SYDNEY, AUSTRALIA

**PROJECT TYPE:** WATERFRONT URBAN REDEVELOPMENT AND ENTERTAINMENT DISTRICT

**DESCRIPTION:**

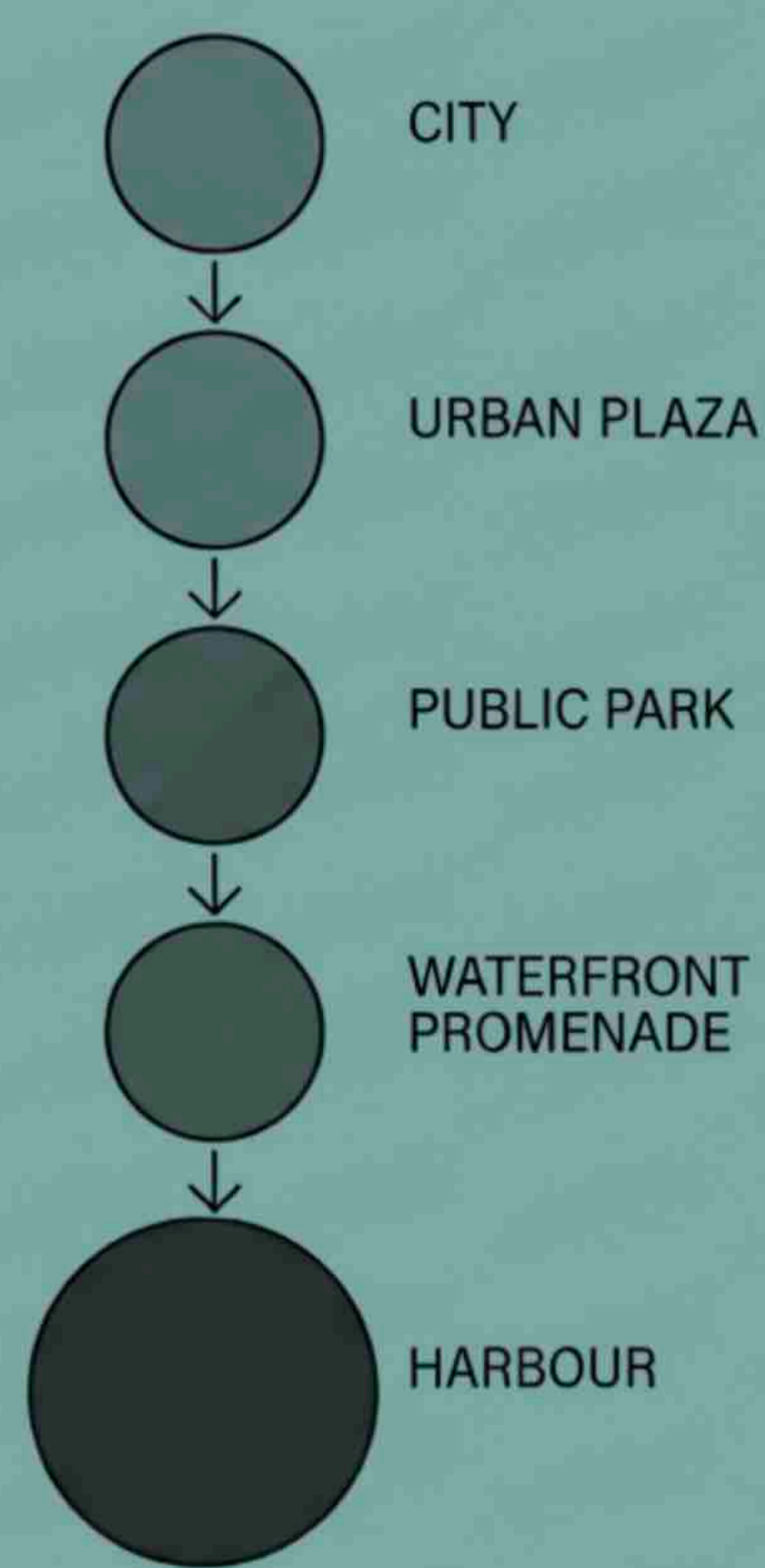
DARLING HARBOUR IS ONE OF THE MOST SUCCESSFUL WATERFRONT REGENERATION PROJECTS IN AUSTRALIA. THE MASTERPLAN TRANSFORMED A FORMER INDUSTRIAL HARBOR INTO A VIBRANT PUBLIC DESTINATION THAT COMBINES CULTURAL, RECREATIONAL, AND COMMERCIAL ACTIVITIES.

THE REDEVELOPMENT FOCUSES ON CREATING ACCESSIBLE PUBLIC SPACES, STRONG PEDESTRIAN CONNECTIONS, AND CONTINUOUS WATERFRONT PROMENADES THAT LINK THE CITY TO THE HARBOR.

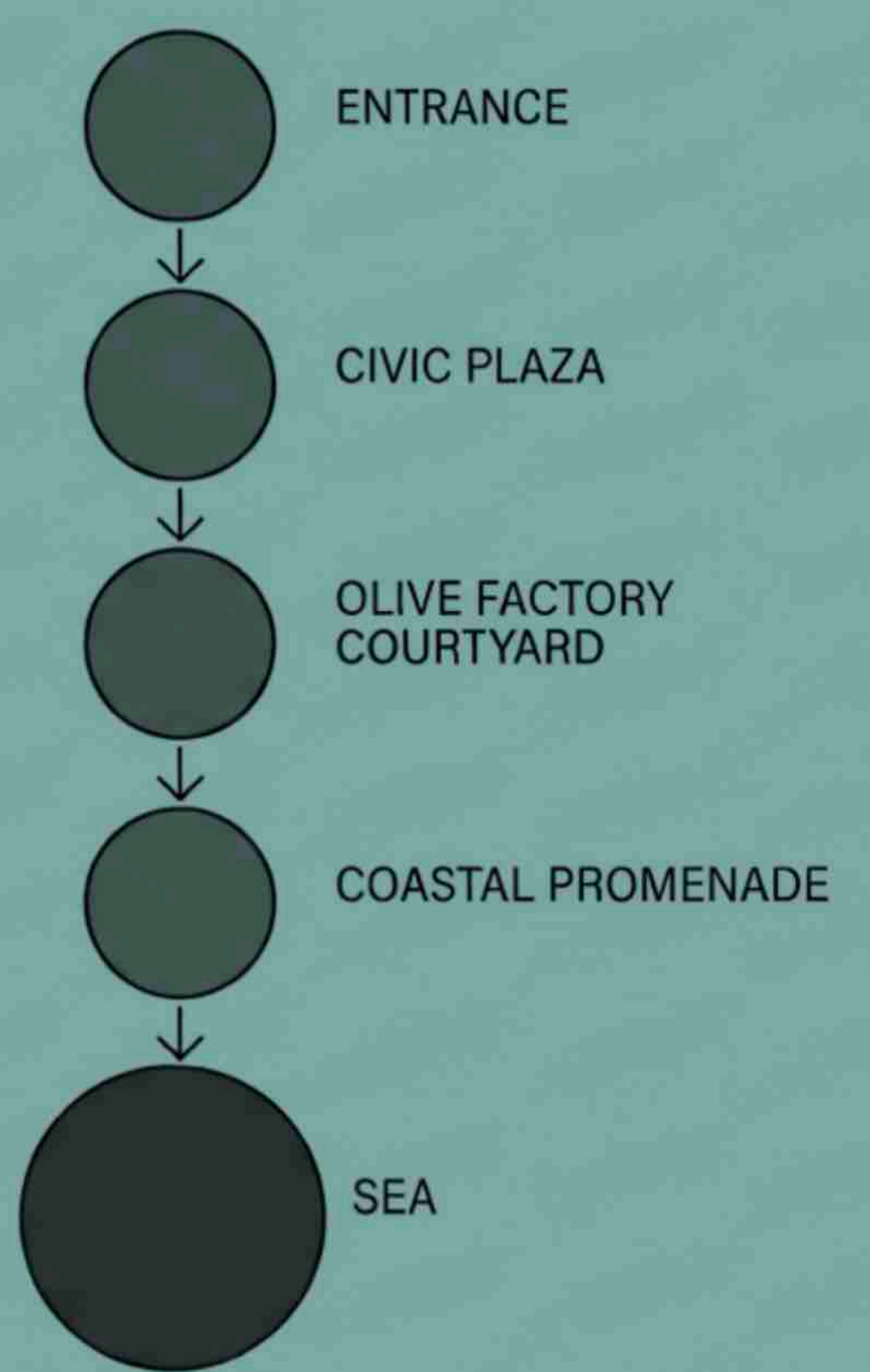


### SPATIAL SYSTEM.

Darling Harbour System



Olive Cultural City Hall System



# CASE STUDIE 2.

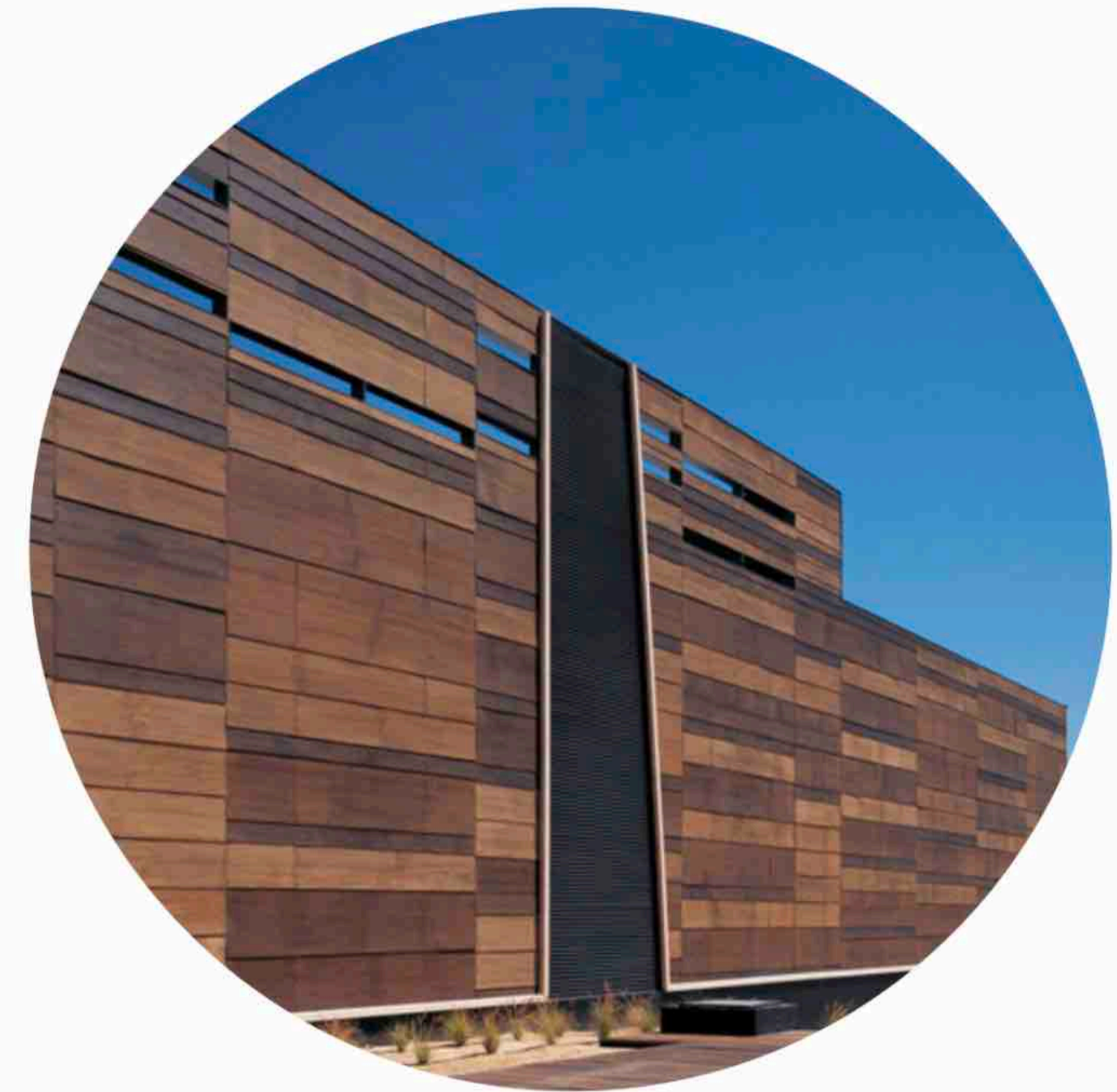
## OLISUR OLIVE OIL MILL

**LOCATION:** CHILI

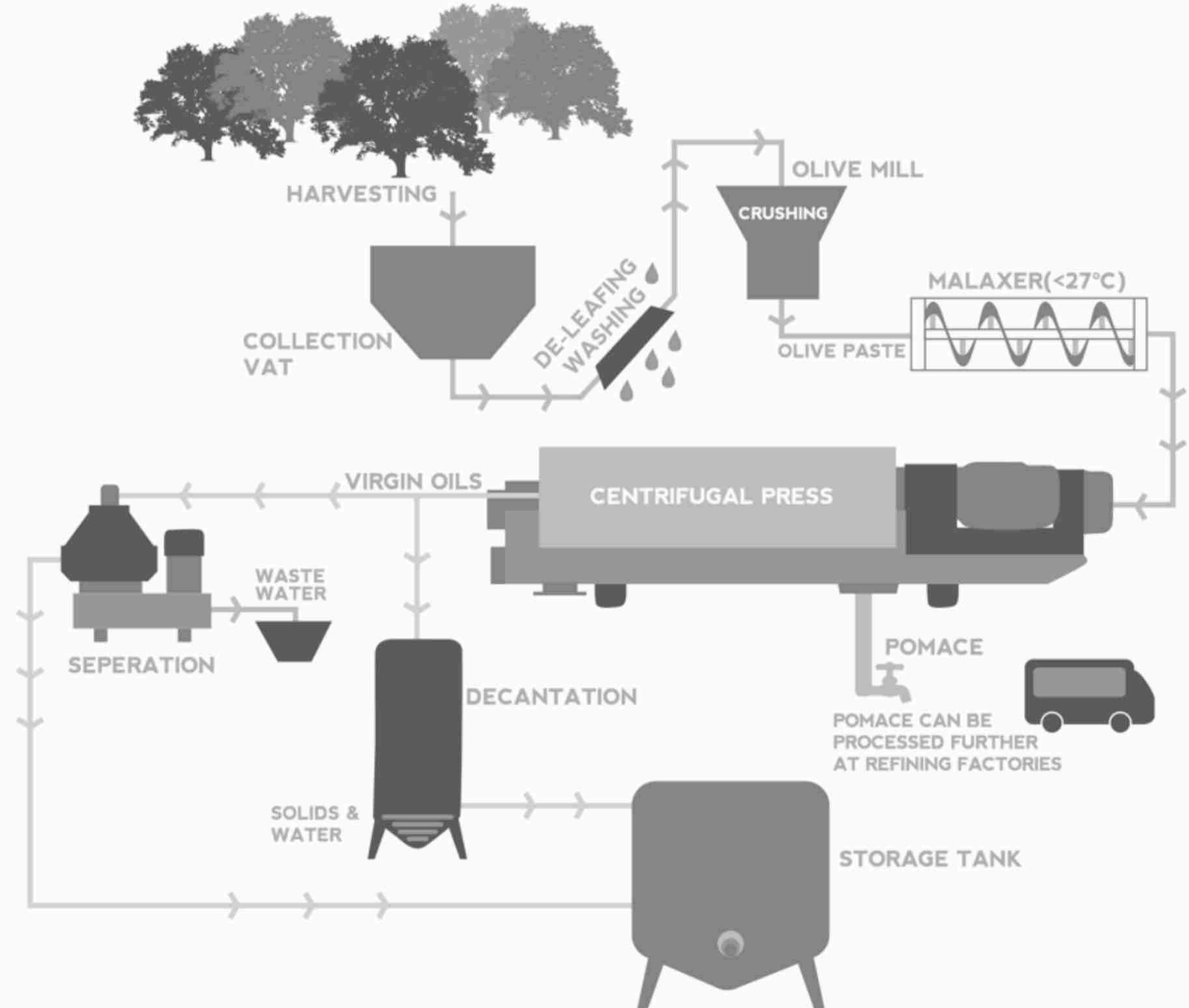
**PROJECT TYPE:** INDUSTRIAL FACILITY / AGRICULTURAL PRODUCTION / CULTURAL EXPERIENCE

**DESCRIPTION:**

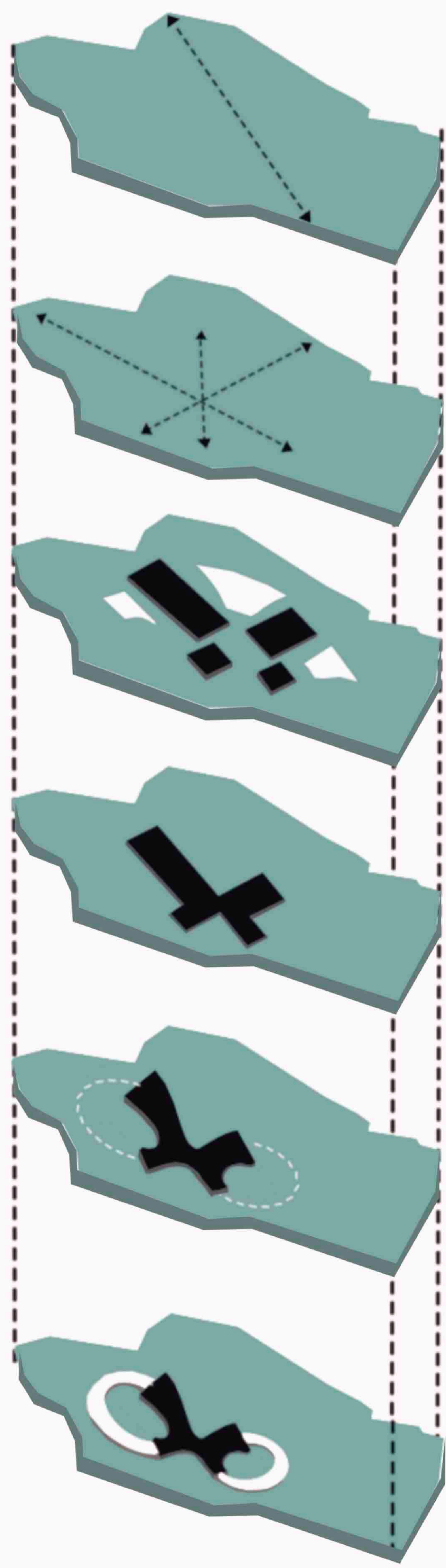
CONTEMPORARY OLIVE OIL PRODUCTION FACILITIES REPRESENT A NEW APPROACH TO INDUSTRIAL ARCHITECTURE, WHERE PRODUCTION, LANDSCAPE, AND VISITOR EXPERIENCE ARE INTEGRATED INTO A SINGLE SPATIAL SYSTEM. UNLIKE TRADITIONAL FACTORIES, THESE BUILDINGS ARE DESIGNED NOT ONLY FOR EFFICIENCY BUT ALSO FOR TRANSPARENCY AND PUBLIC ENGAGEMENT.



### OLIVE OIL PRODUCTION.



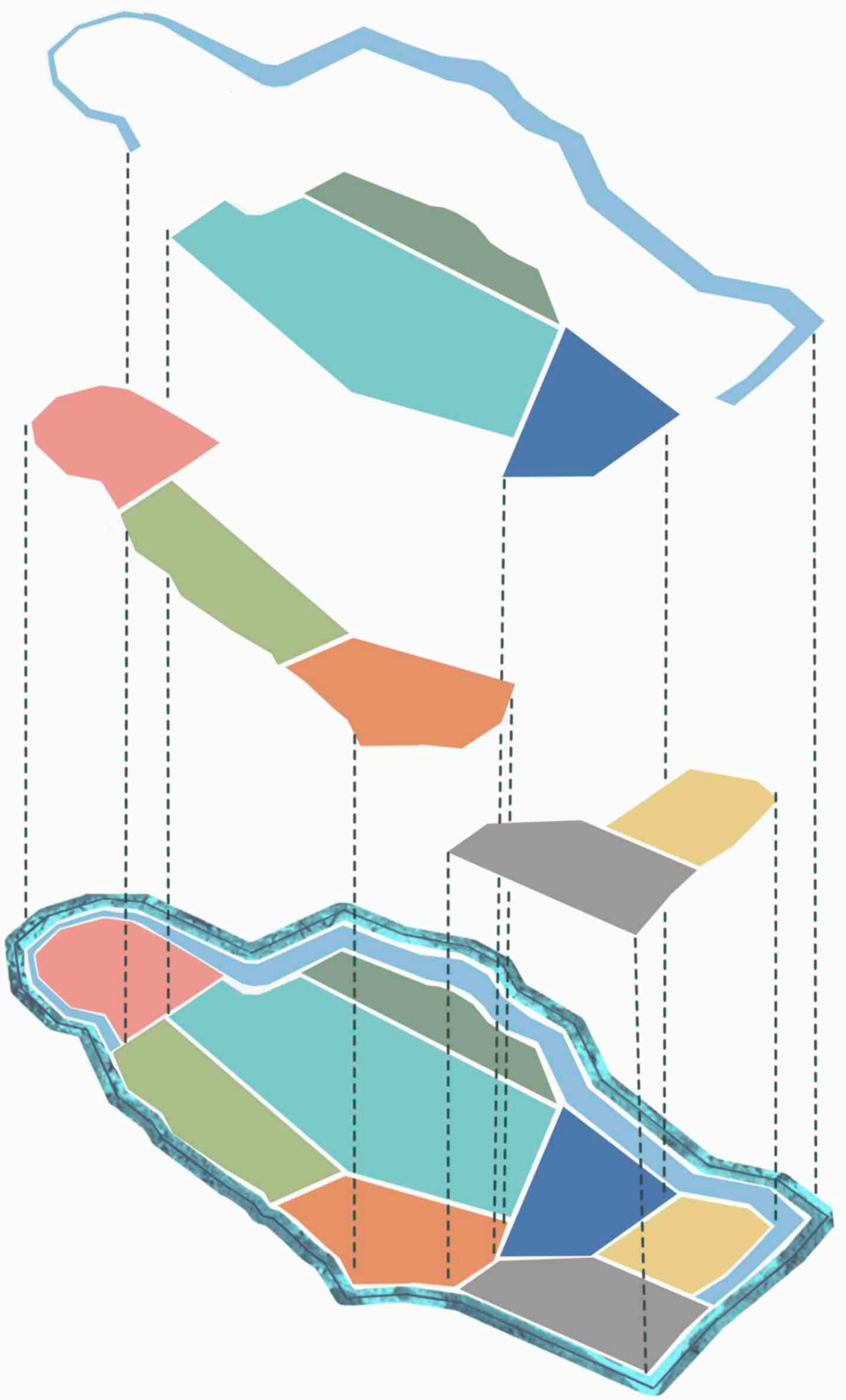
DESIGN PROCESS.



THEORETICAL APPROACH.

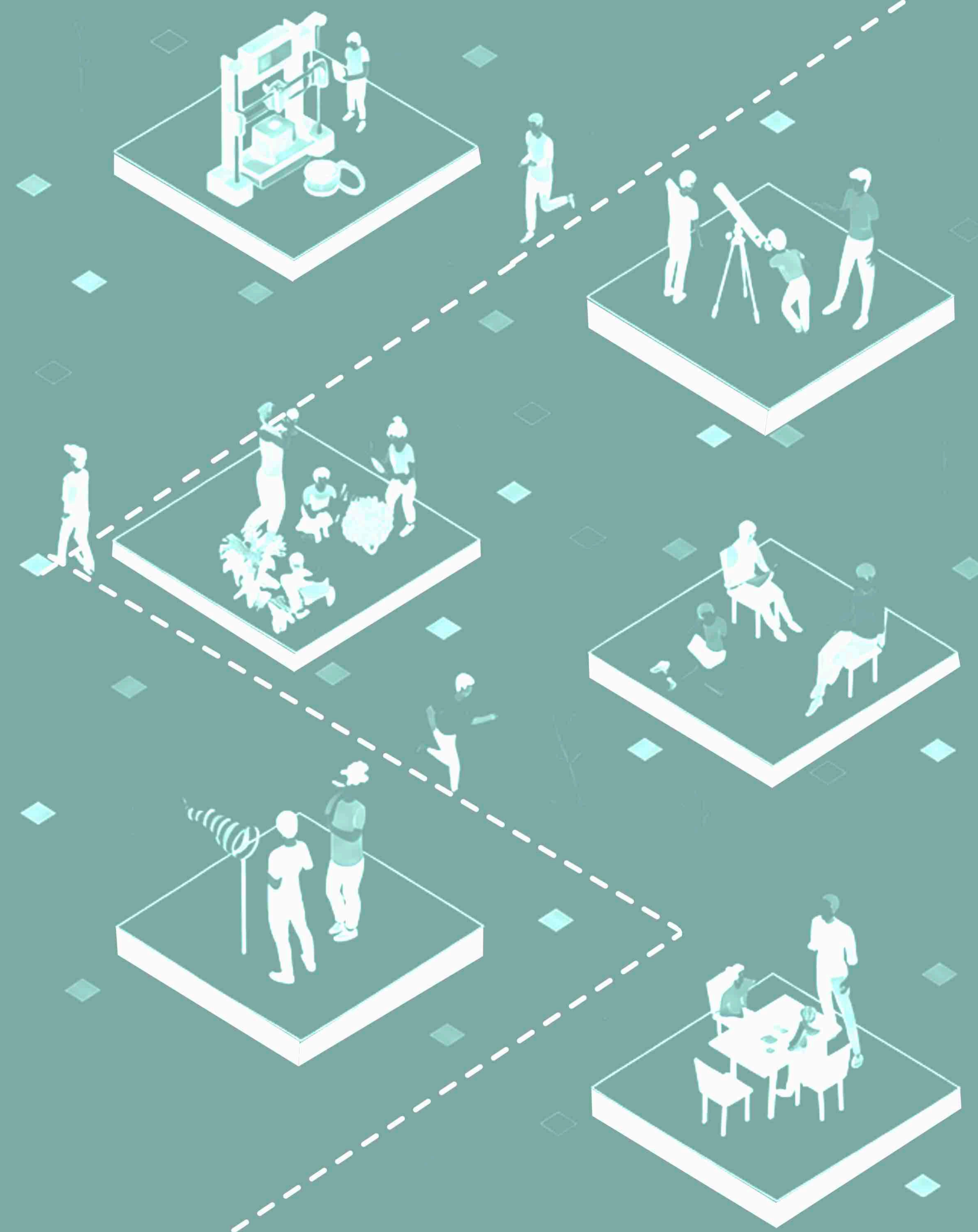


ZONING DIAGRAM.



- |  |                 |   |              |
|--|-----------------|---|--------------|
|  | ENTRANCE        |  | CINEMA       |
|  | WELLNESS ZONE   |  | ART & CRAFTS |
|  | INDUSTRIAL ZONE |  | FOOD & SHOPS |
|  | PLAZA           |  | PROMENADE    |
|  | CIVIC ZONE      |   |              |

ACTIVITY DIAGRAM.



# SITE PLAN

SCALE 1/500



**BASEMENT FLOOR PLAN**  
**SCALE 1:500**  
**LEVEL -3.20**



GROUND FLOOR PLAN  
SCALE 1:500  
LEVEL +0.00



FIRST FLOOR PLAN  
SCALE 1:500  
LEVEL +3.50



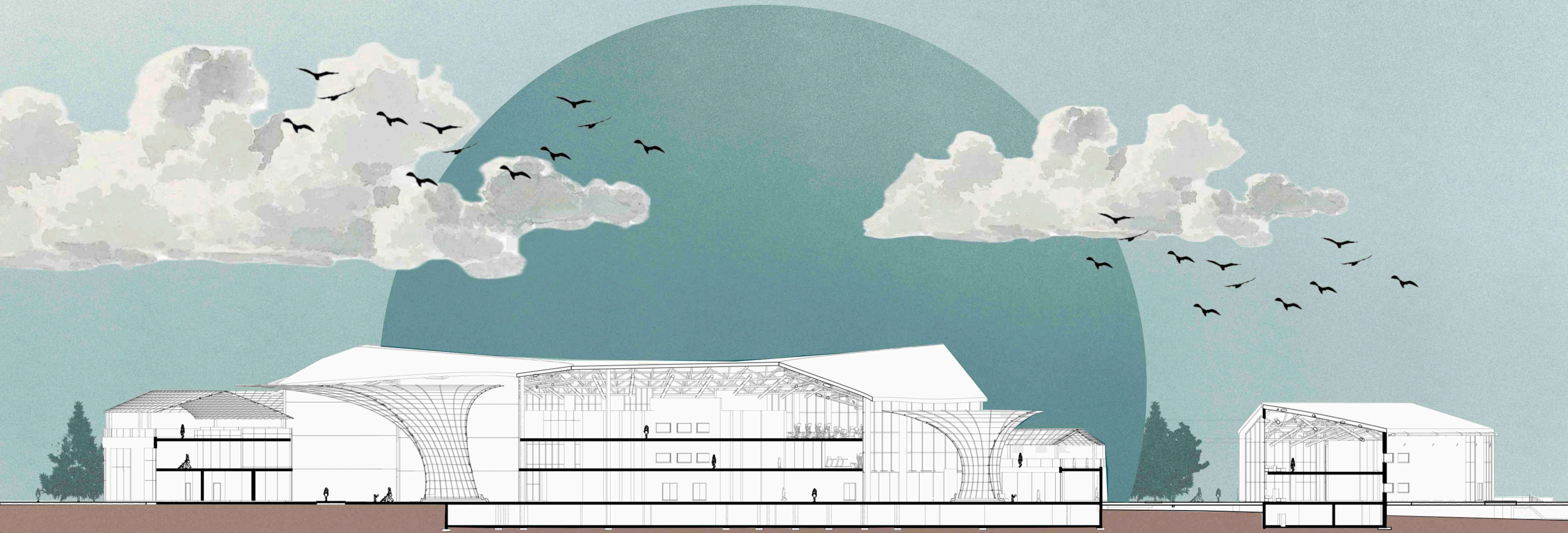
# SECOND FLOOR PLAN

SCALE 1:500

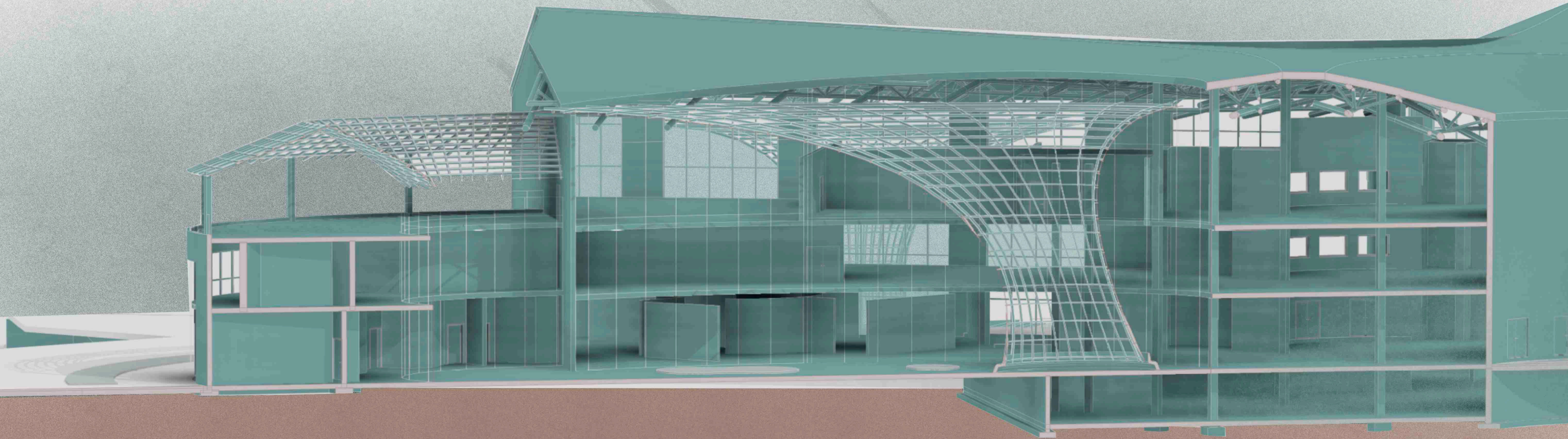
LEVEL +6.50



SECTION A-A  
SCALE 1:500.



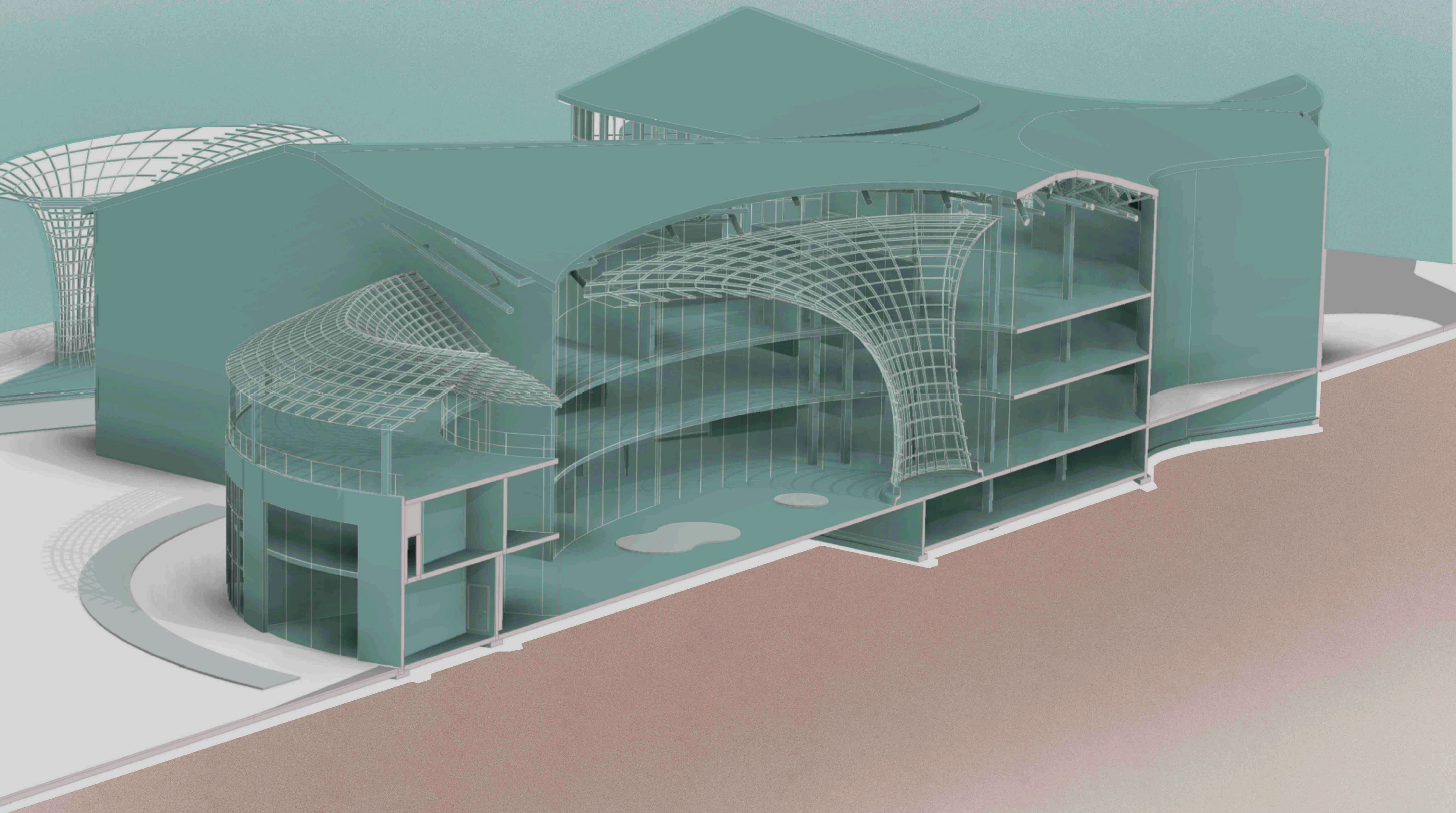
SECTION D-D  
SCALE 1:500



SECTION C-C  
SCALE 1:500

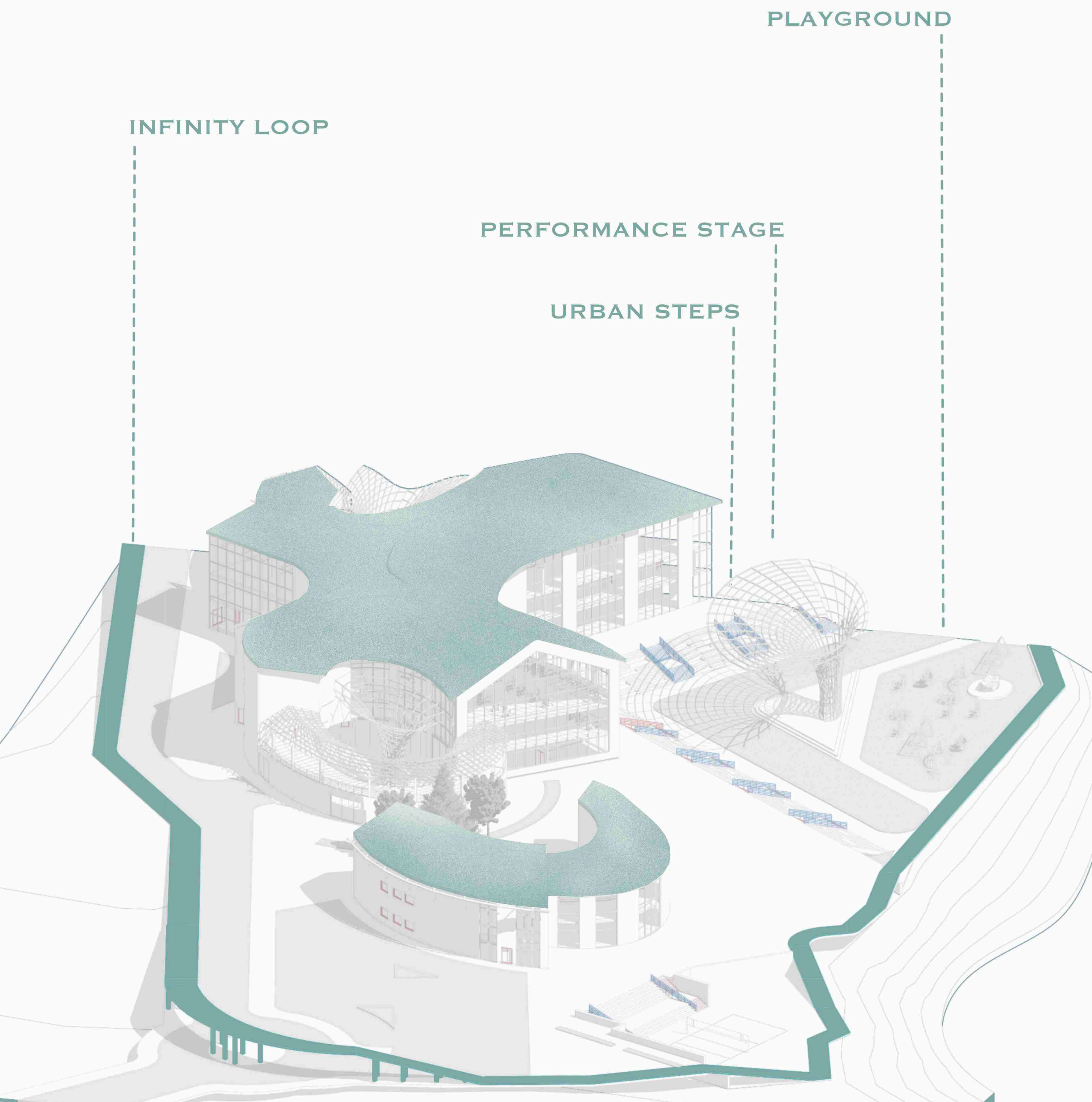
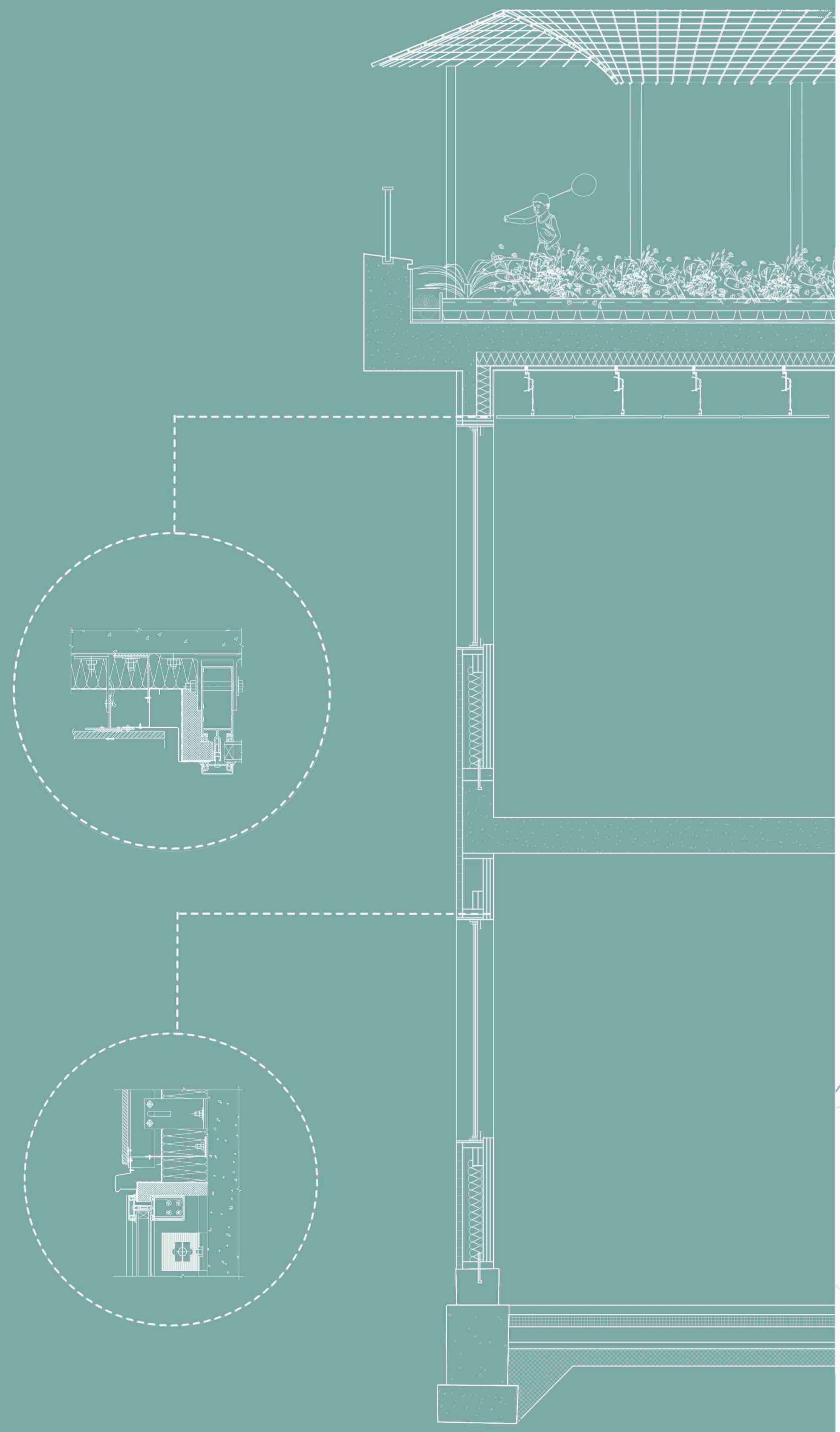


PERSPECTIVE SECTION D-D  
SCALE 1:500.

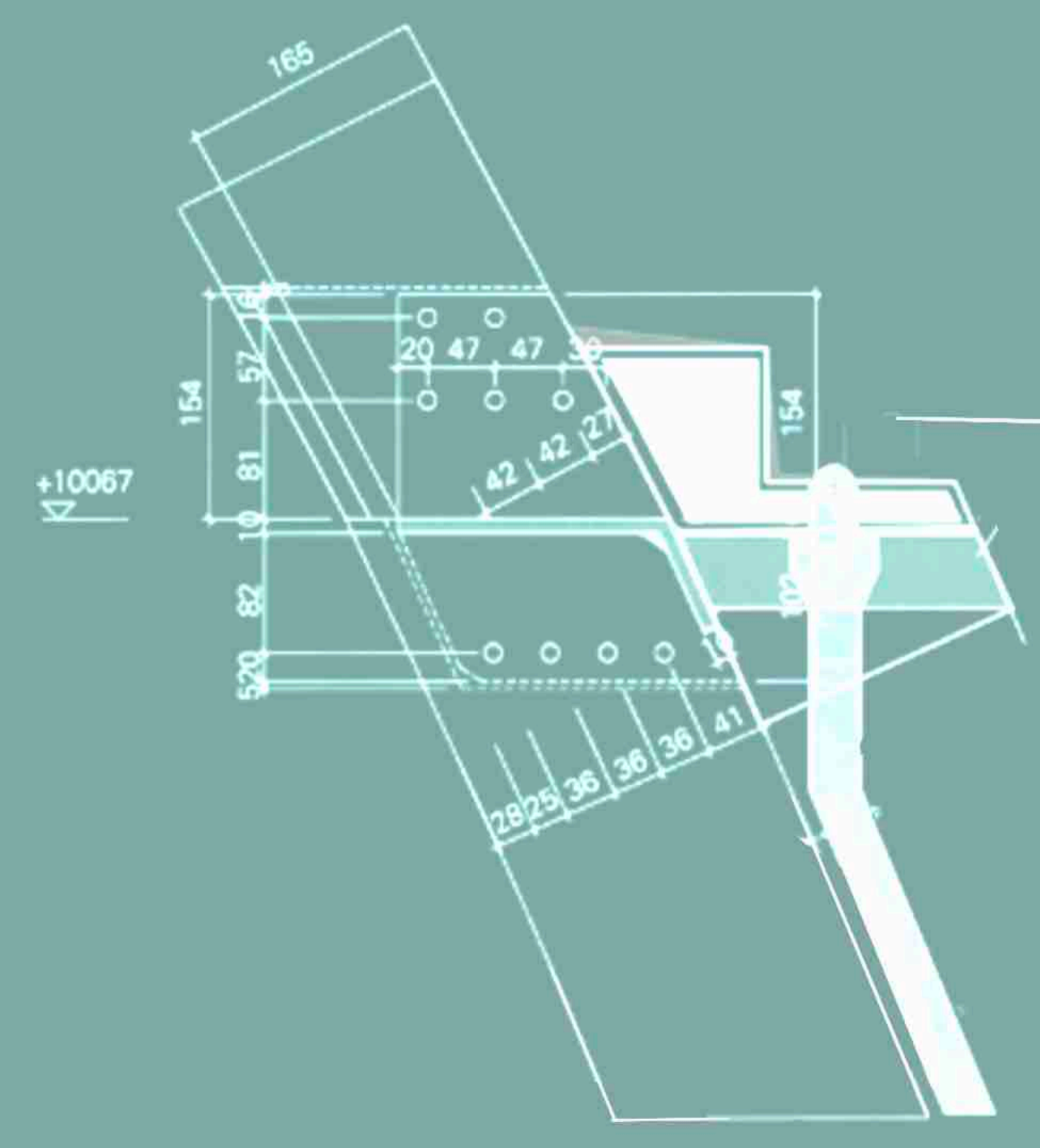
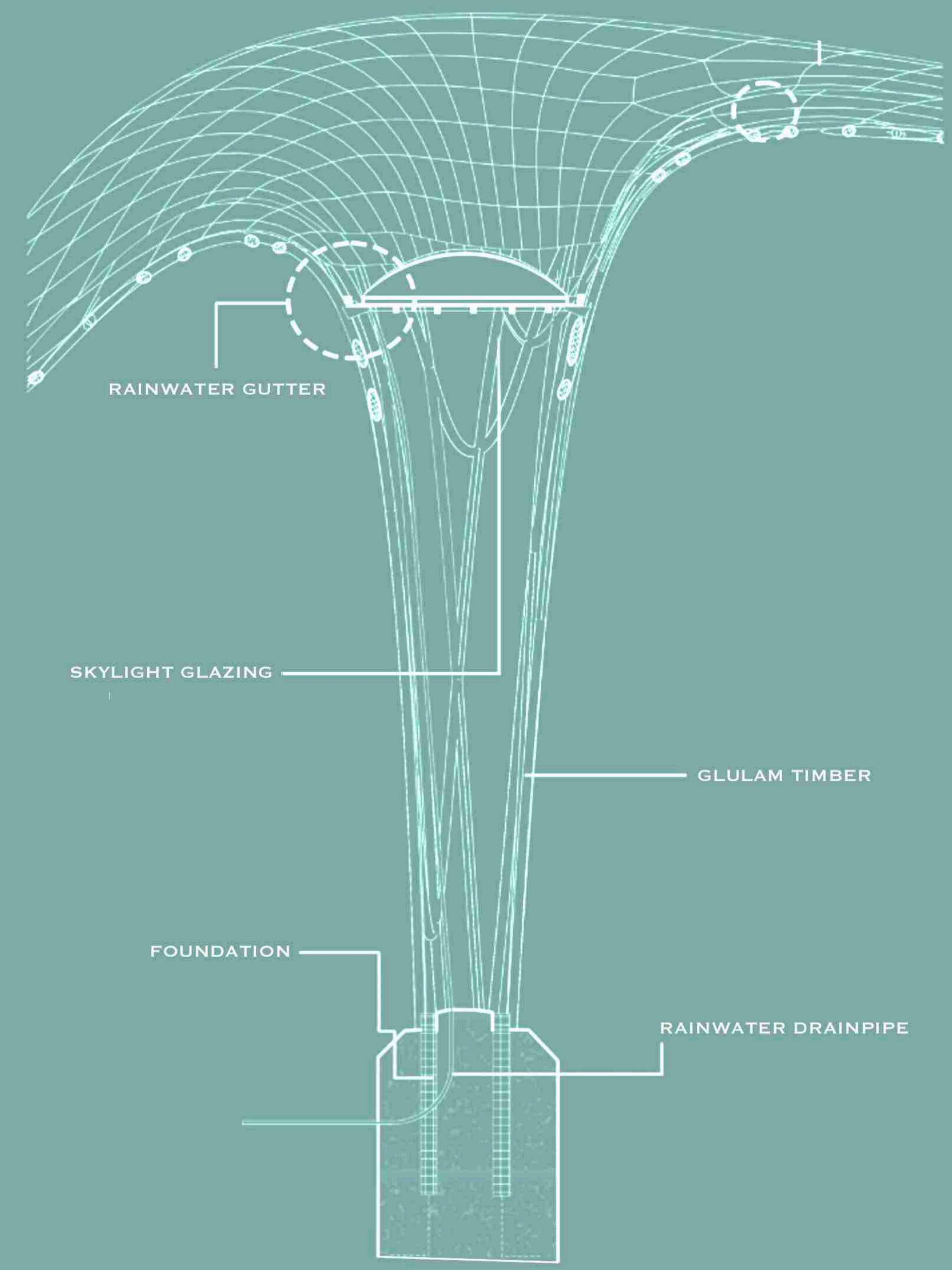


PARTIAL SECTION  
SCALE 1/50

ACTIVITY DIAGRAM.

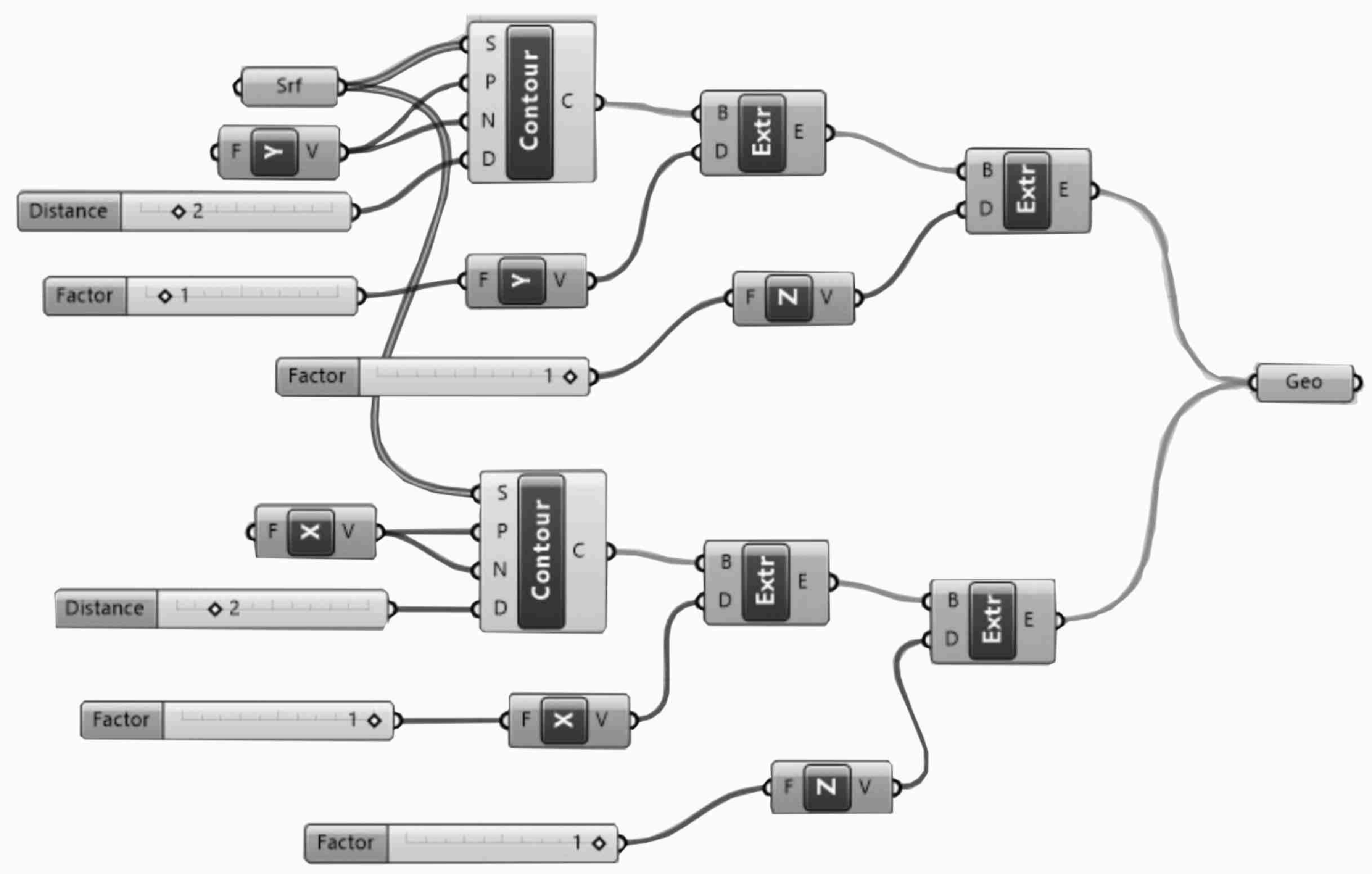


# TIMBER CONOPY DETAILS.

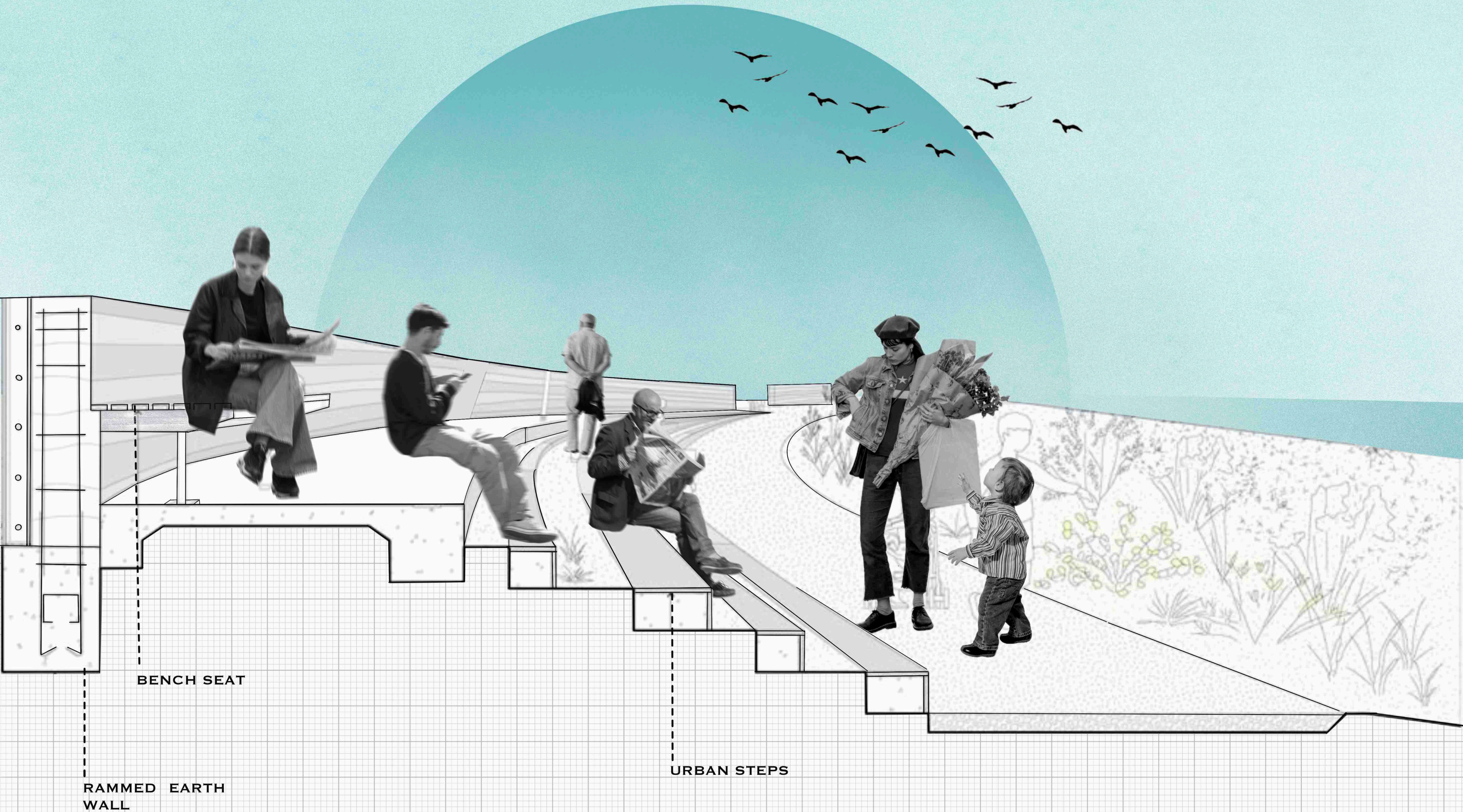


SYSTEM DETAILS 1:20  
RAINWATER GUTTER

# RHINO GRASSHOPPER SCRIPT

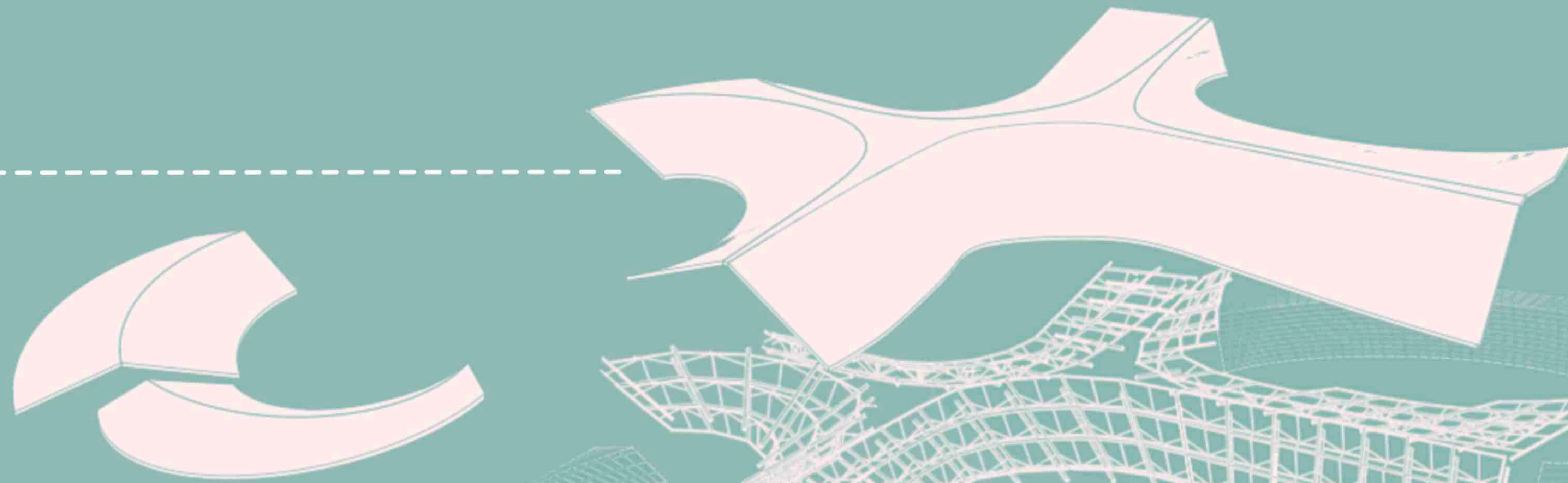


URBAN STEPS  
SECTION DETAILS 1:20



# TECTONIC ANALYSIS.

ROOF CLADDING



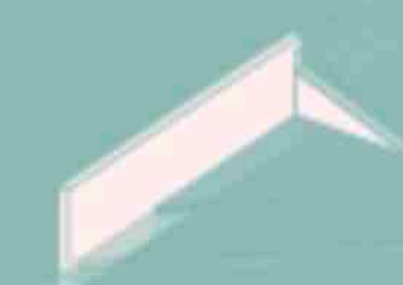
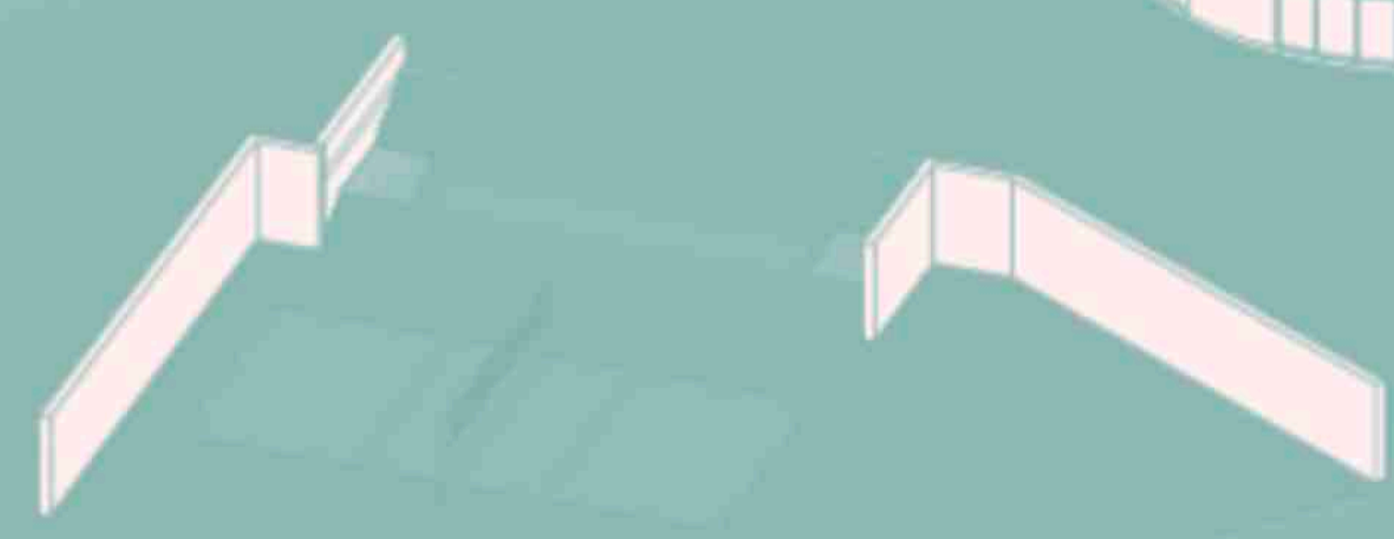
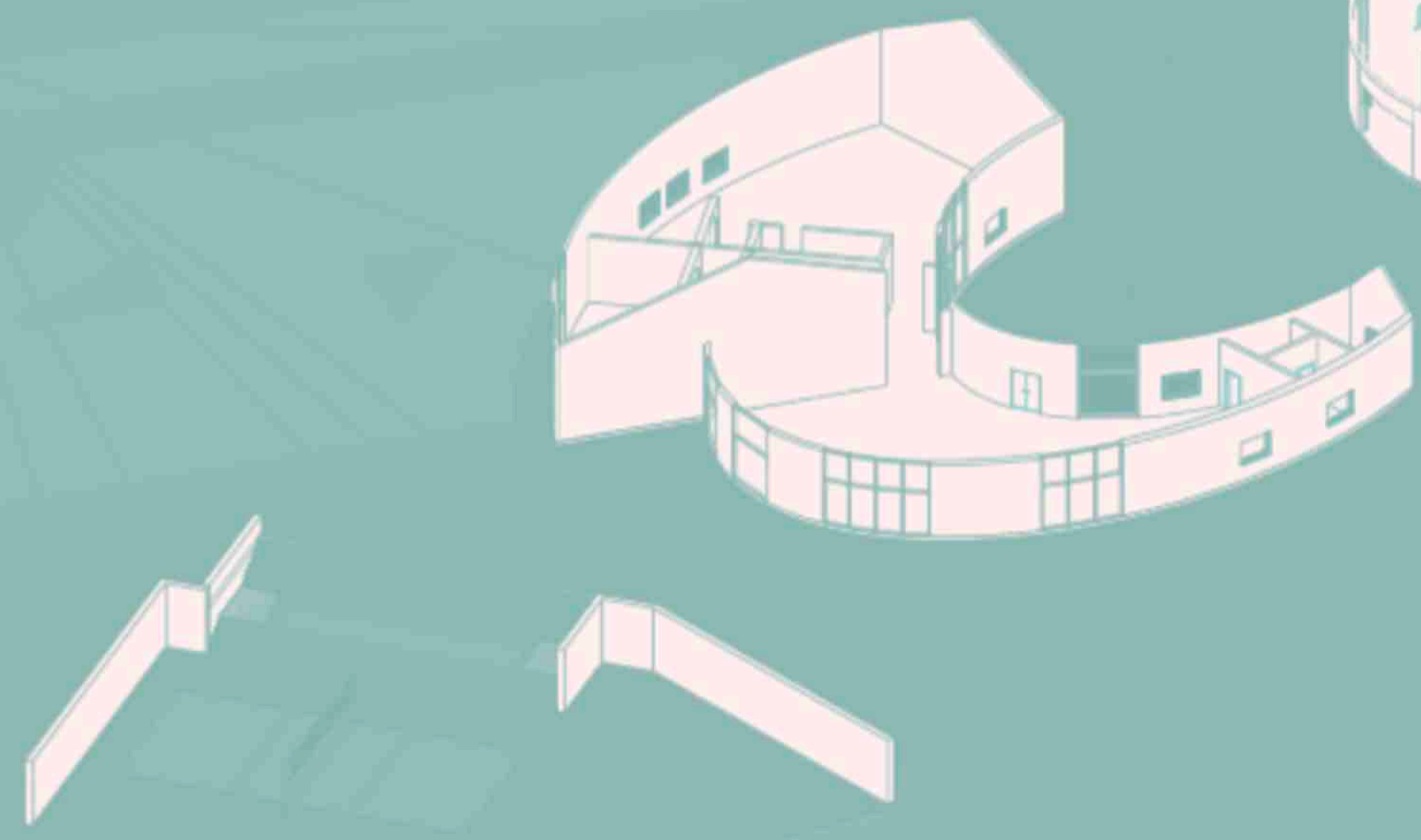
SPACE TRUSS



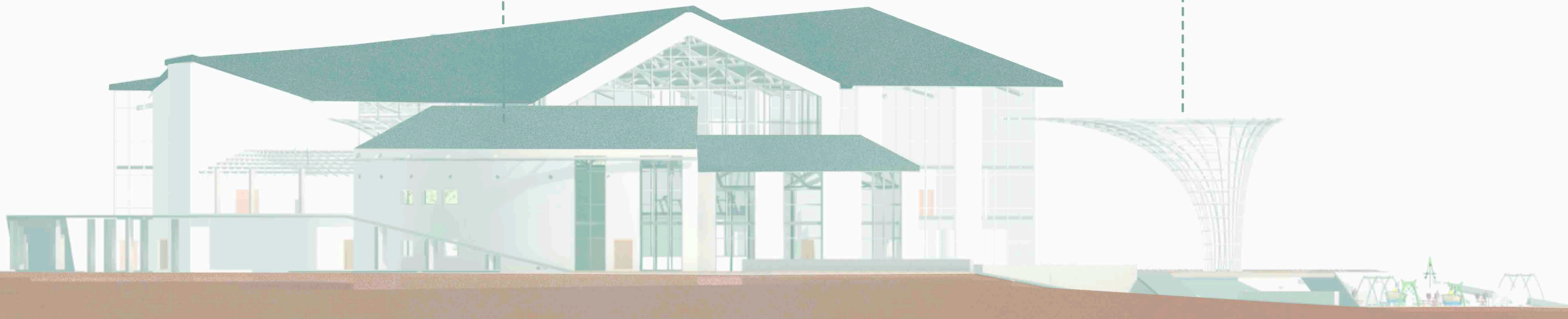
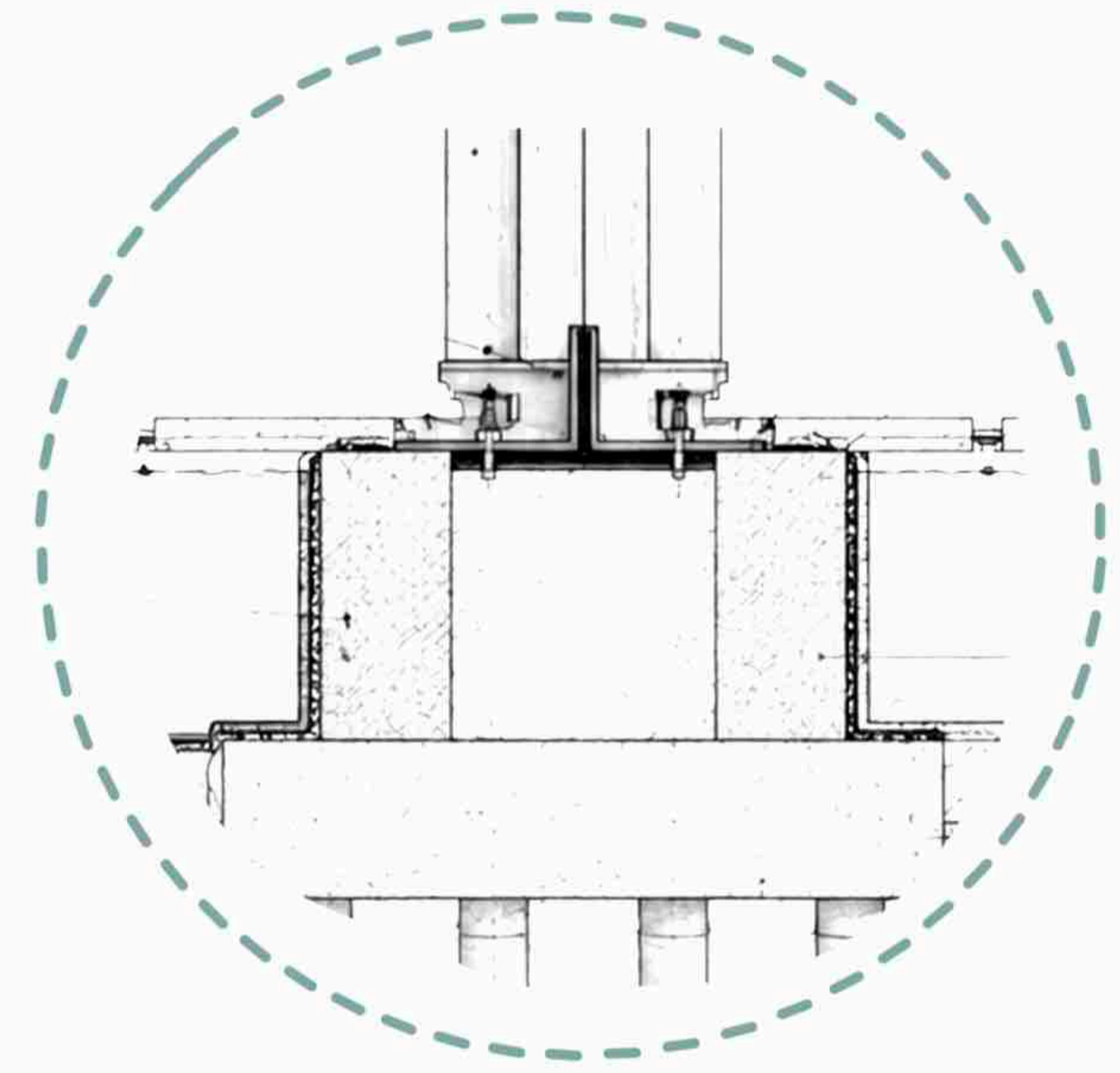
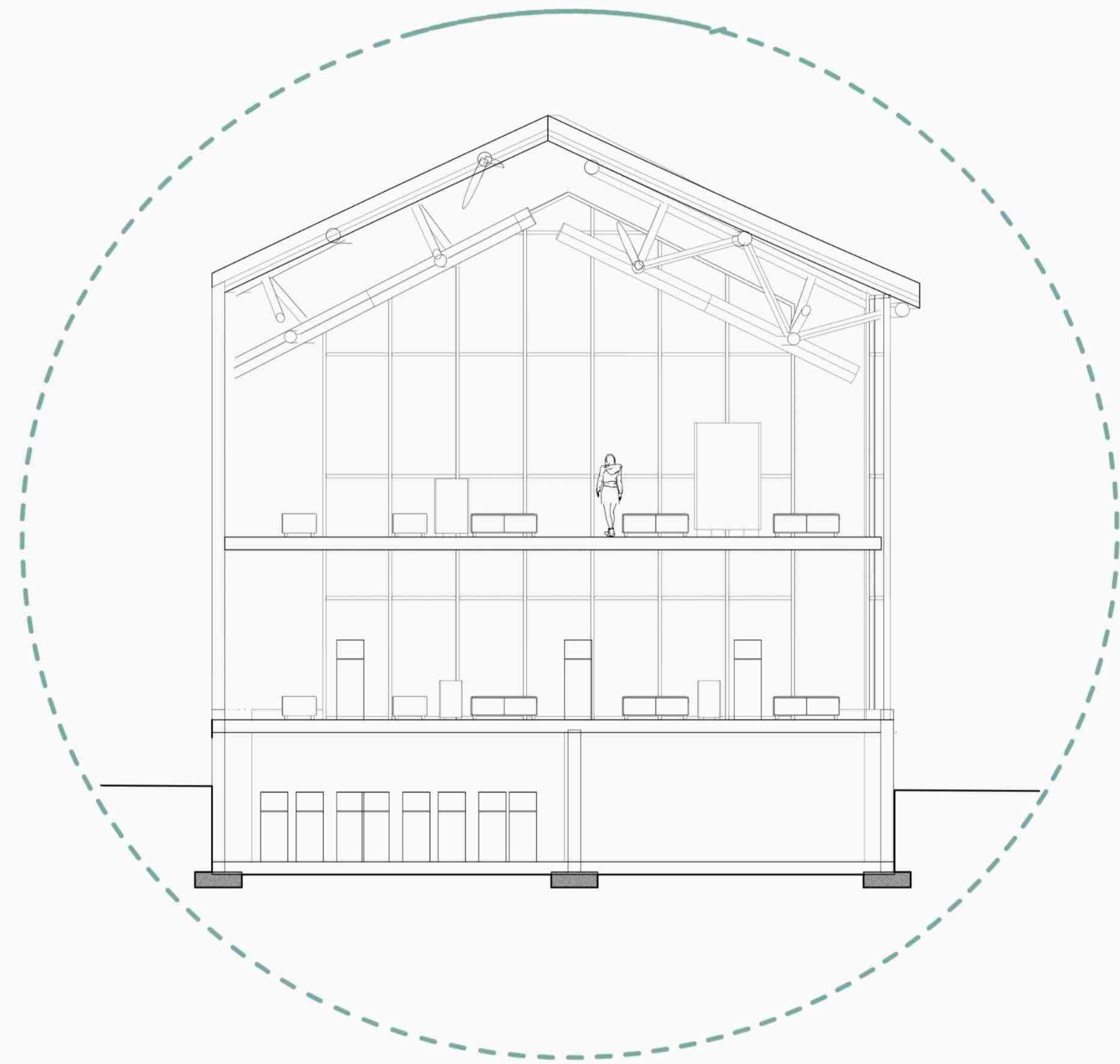
GLULAM GRIDSHELL  
STRUCTURE



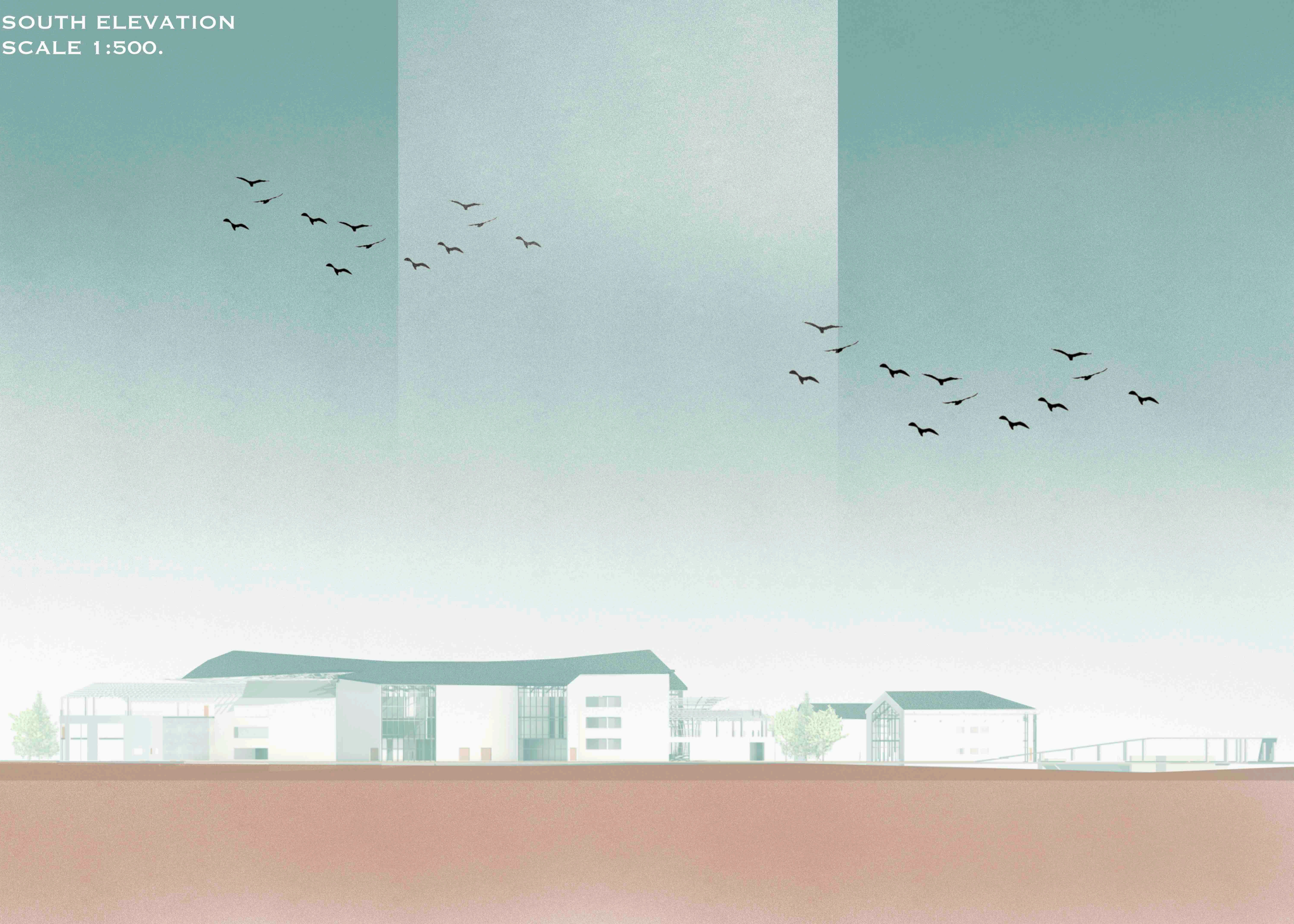
GLULAM WOODEN  
CONOPY



EAST ELEVATION  
SCALE 1:500.



SOUTH ELEVATION  
SCALE 1:500.























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SPRING SEMESTER



# THANK YOU

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