

# **THE OBLIQUE & THE APPROPRIATION**

*ARCHITECTURE AS CATALYST FOR URBAN ACTIVITIES*

# WHAT IS A PUBLIC SPACE?

HEARTBEAT OF A CITY

ACCESSIBLE



SOCIAL COHESION

OPEN TO THE PUBLIC



COMMUNITY SHAPING

INCLUSIVE



MULTIFUNCTIONAL

CULTURAL ACTIVITIES

# **PUBLIC SPACE IS A PLACE FOR...**

**VARIOUS** *PEOPLE*  
**VARIOUS** *ACTIVITIES*  
**VARIOUS** *FORMS*

# PUBLIC SPACE, PERCEPTION AND USE: ADULTS



# PUBLIC SPACE, PERCEPTION AND USE: CHILDREN



# ACTIVITIES AS CONTINUATION OF KIDS PERCEPTION



**SKATEBOARDING**



**PARKOUR &  
FREERUNNING**



**BREAK- &  
STREETDANCE**



**STREET  
PERFORMANCE**



**BMX**



**STREET ART**

## **STREET CULTURE**

**PUBLIC SPACE** NOT MERELY UTILITARIAN SPACES,  
BUT LIVING **CANVASES** WHERE INDIVIDUALS CAN **FREELY EXPRESS** THEMSELVES,

# 13 YEARS OF EXPERIENCE



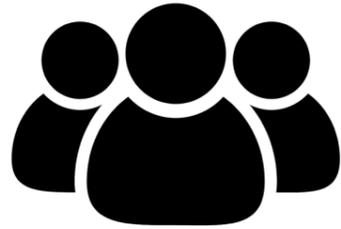
WHAT ARCHITECTURAL SHAPES INSPIRE THESE ACTIVITIES?

# PIER 15



WHAT ARCHITECTURAL SHAPES INSPIRE THESE ACTIVITIES?

# POTENTIALS OF STREET CULTURE



**STRONG COMMUNITIES AND  
SENSE OF BELONGING**



**CONTRIBUTE TO VIBRANCY AND  
SOCIAL DYNAMICS**



**CULTURAL EXPRESSIONS**



**EYES ON THE STREET**



**PHYSICALL AND MENTAL  
WELLBEING**



**YOUTH EMPOWERMENT**

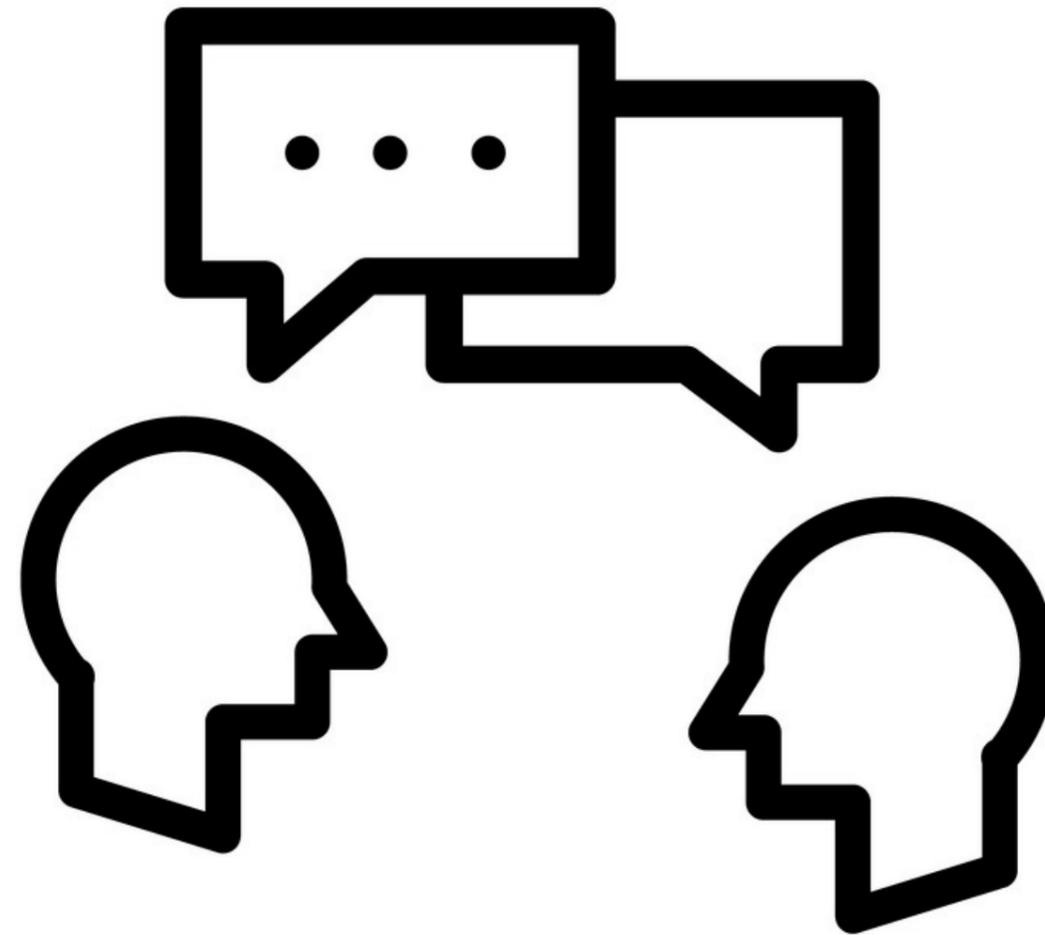
# STREET CULTURE IS **BAD?**

# HOSTILE ARCHITECTURE EXCLUDES INDIVIDUALS



# **STREET CULTURE IS MISUNDERSTOOD**

# A NEED FOR DIALOGUE AND MUTUAL UNDERSTANDING



# MULTIFUNCTIONAL SPOT



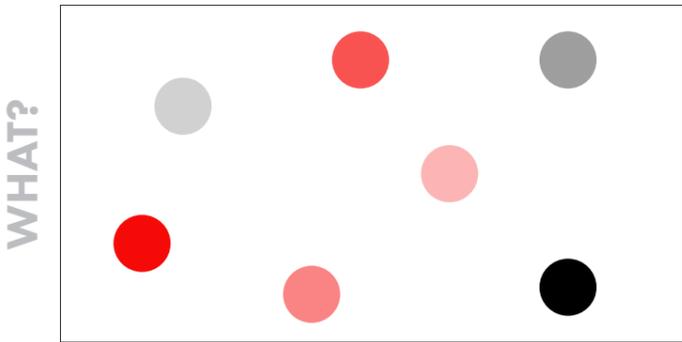
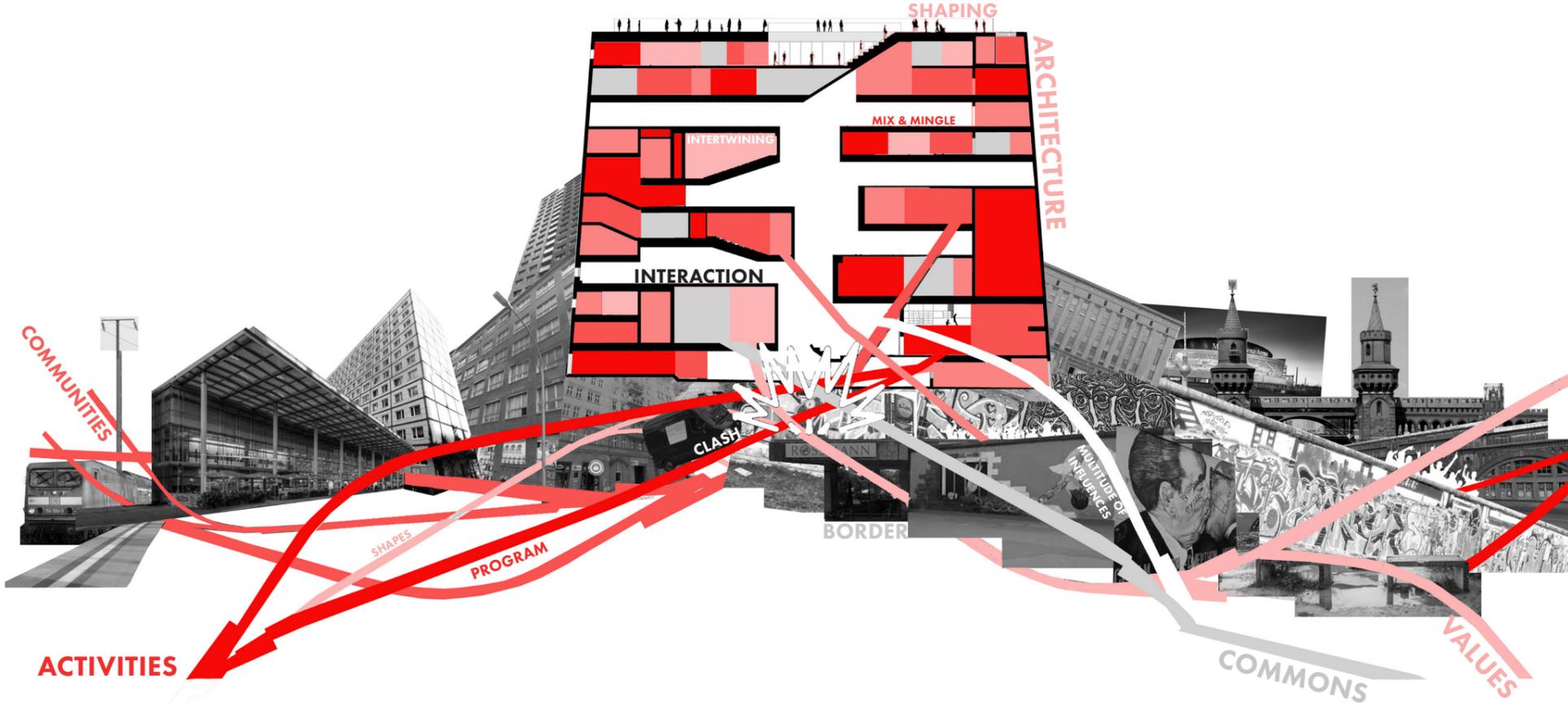
KULTURFORUM, BERLIN

# MULTIFUNCTIONAL SPOT

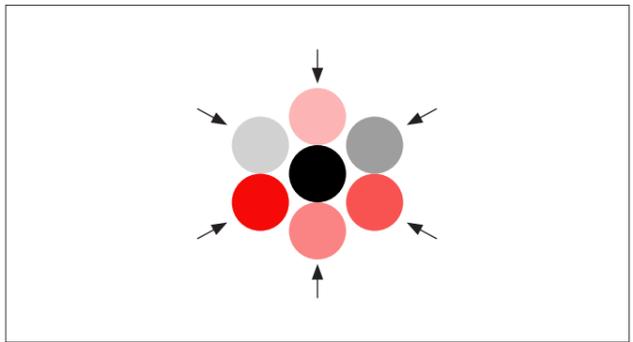


MUSEUM OF OCEAN AND SURF, STEVEN HOLL

# WHAT IS A PUBLIC CONDENSOR?

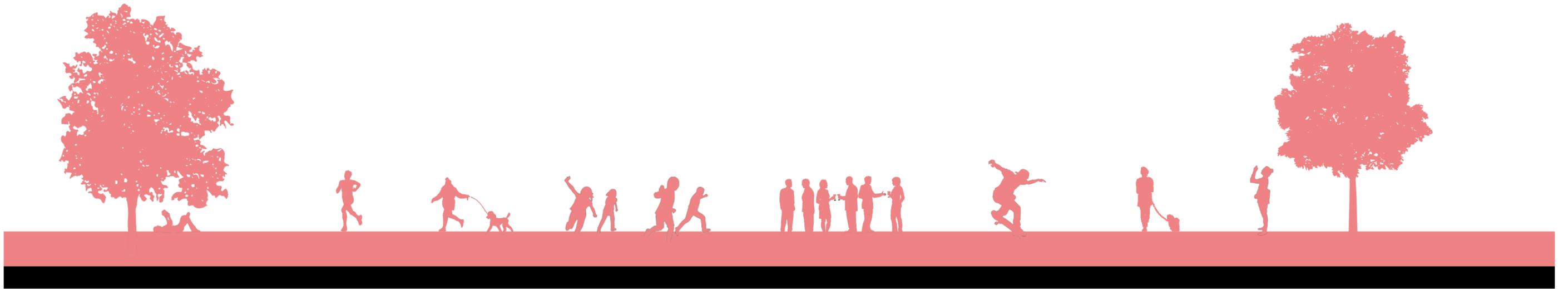


SCATTERED AND DIFFERENT COMMUNITIES



COMMUNITIES CONDENSED IN 1 PLACE

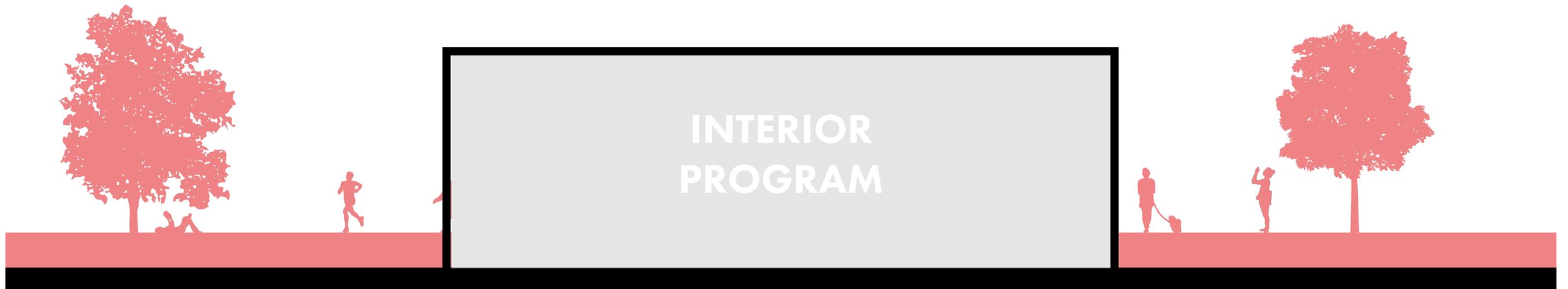
# HOW PUBLIC IS A PUBLIC BUILDING?



## **PUBLIC SPACE**

IN WHICH INDIVIDUALS CAN EXPRESS THEMSELVES FREELY

# HOW PUBLIC IS A PUBLIC BUILDING?



## **"PUBLIC" BUILDING**

REDUCES PUBLIC SPACE AND REPLACES IT WITH  
INTERIOR PROGRAM THAT HAS ITS OWN RULES AND OPENING HOURS

# HOW PUBLIC IS A PUBLIC BUILDING?



## **PUBLIC BUILDING + PUBLIC SPACE**

INSTEAD OF TREATING THEM DIFFERENTLY, A BUILDING CAN BE BOTH.  
ARCHITECTURE CAN SHAPE NEW PUBLIC SPACE WITH POTENTIALLY ADDED VALUE

**WHERE?**

# BERLIN, FRIEDRICHSHAIN



EAST SIDE GALLERY

# BERLIN, FRIEDRICHSHAIN



RAW GELÄNDE

# BERLIN, FRIEDRICHSHAIN



BERGHAIN

# BERLIN, FRIEDRICHSHAIN



"DOGSHIT" SKATESPARK

# WHERE IN BERLIN?



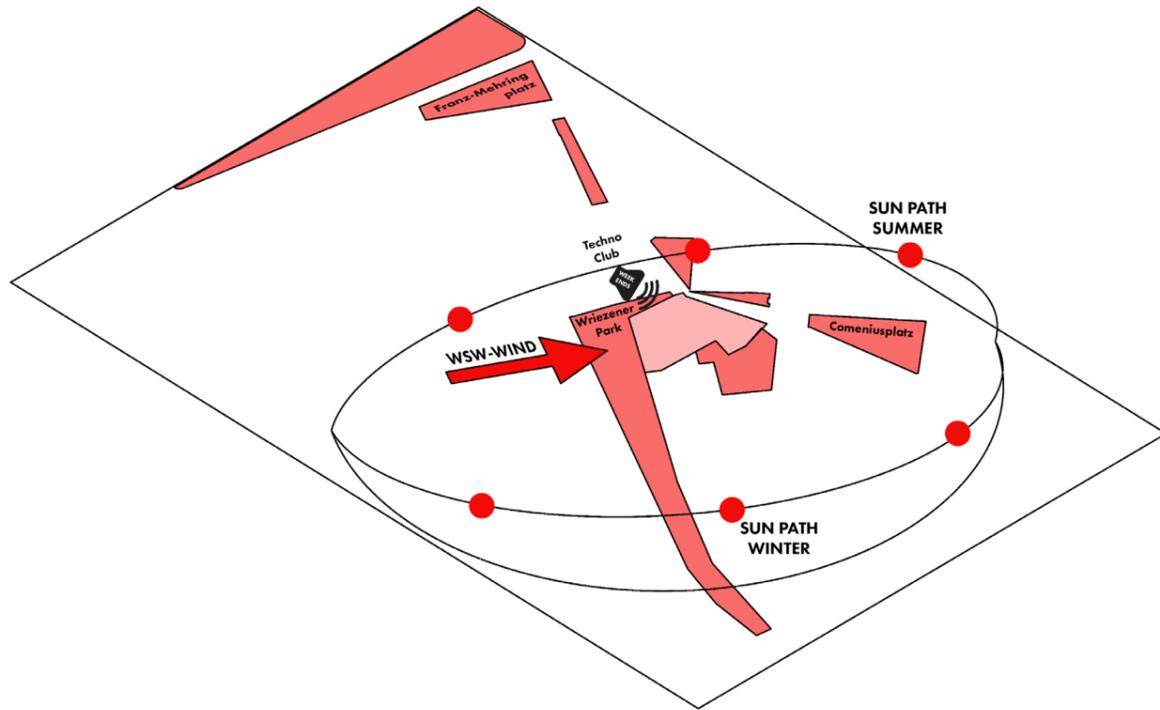
# BORDER BETWEEN NEIGHBORHOODS



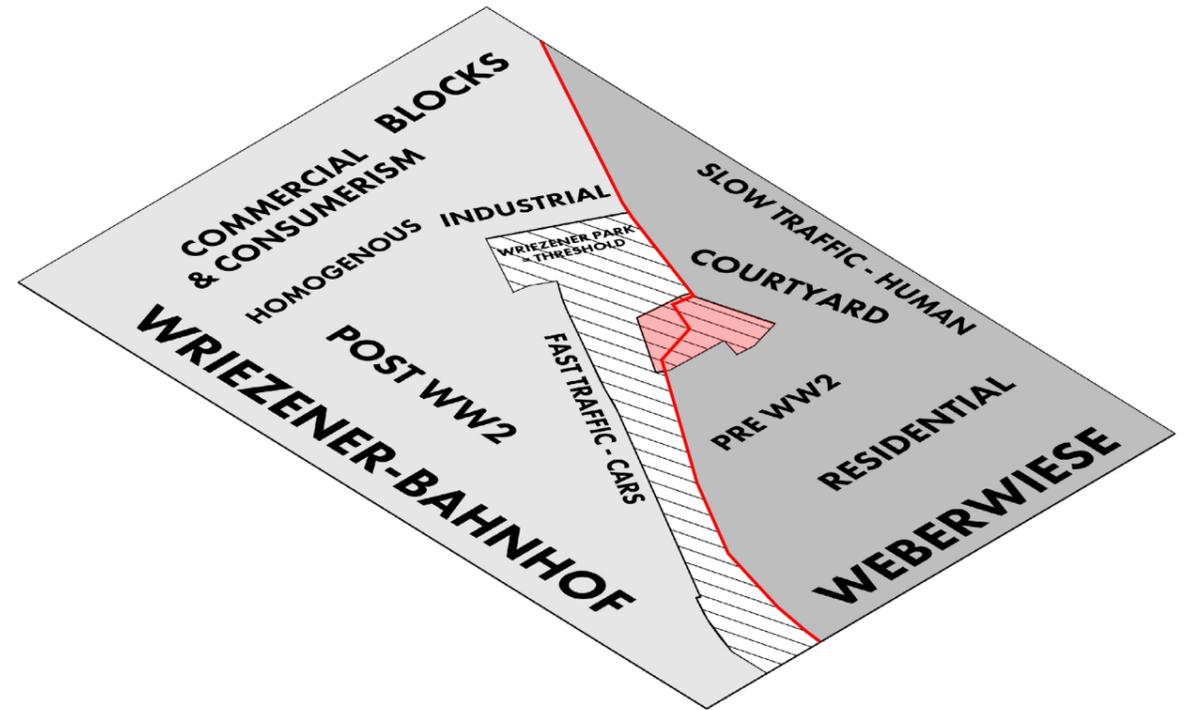
# WRIEZENER PARK



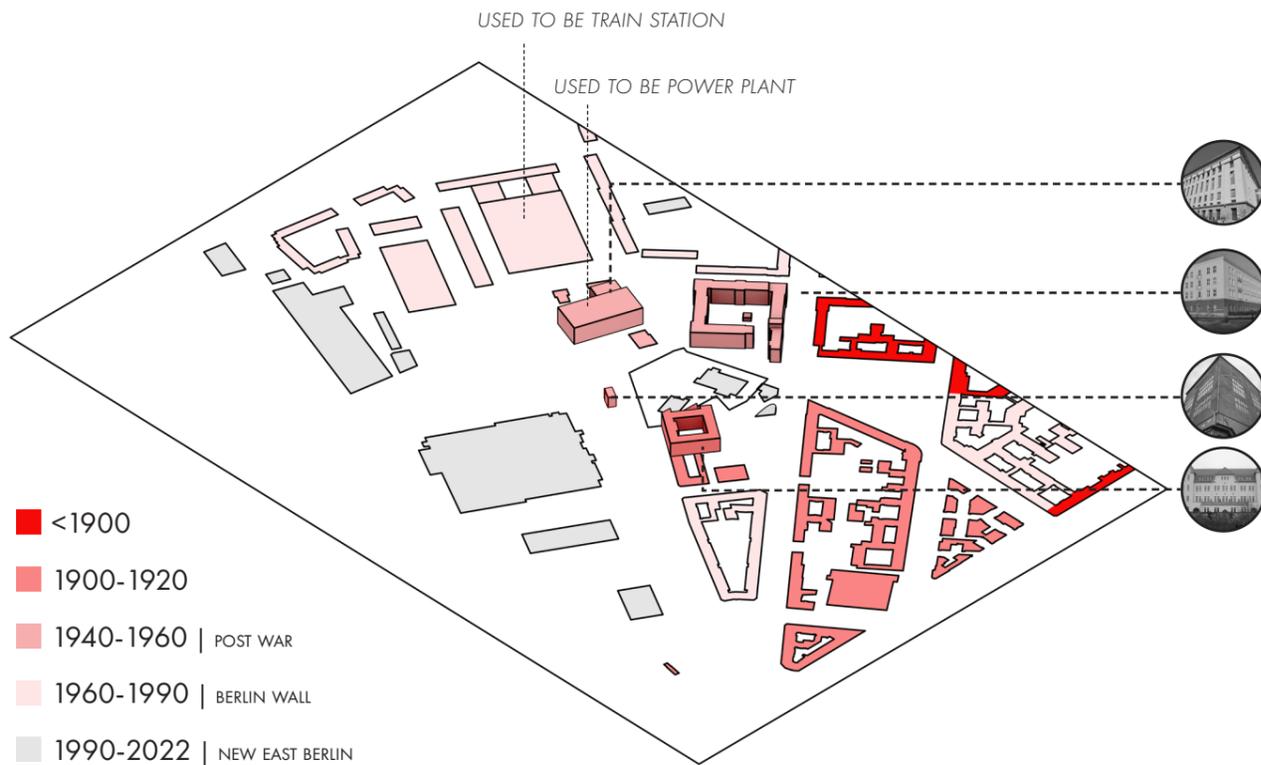
# WRIEZENER PARK



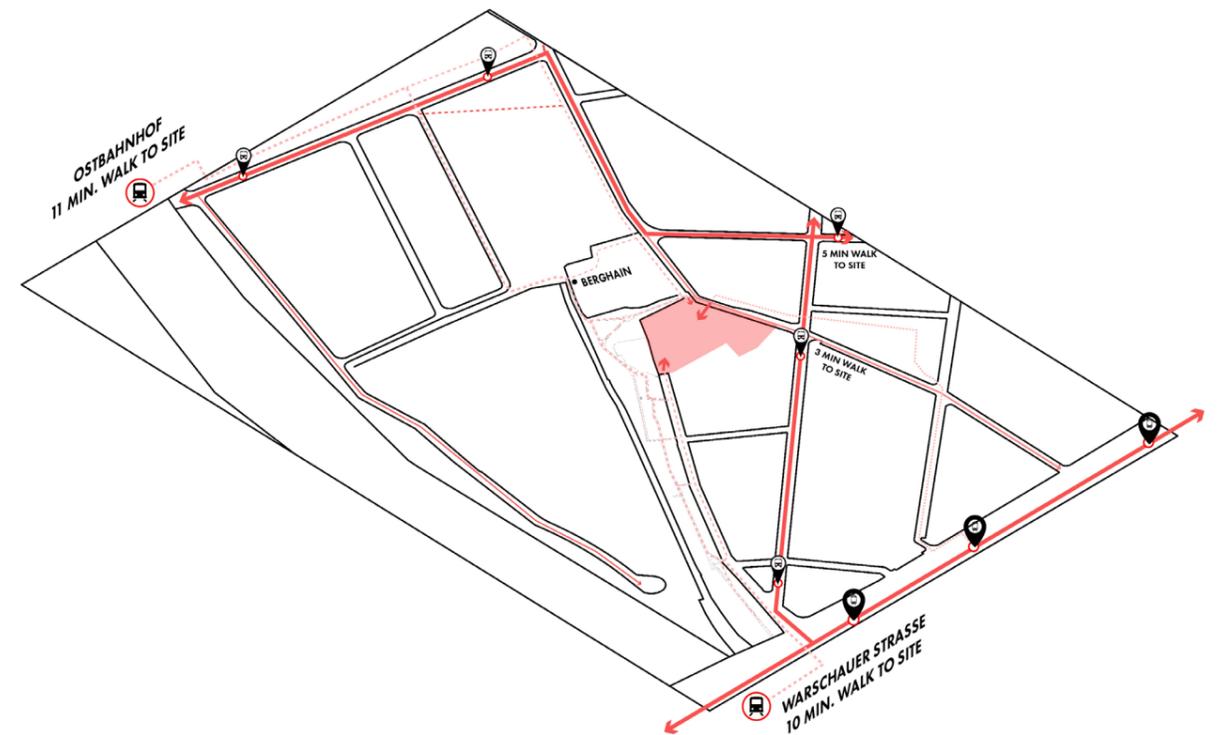
**SURROUNDED BY GREEN**



**CONTRASTING THRESHOLD**



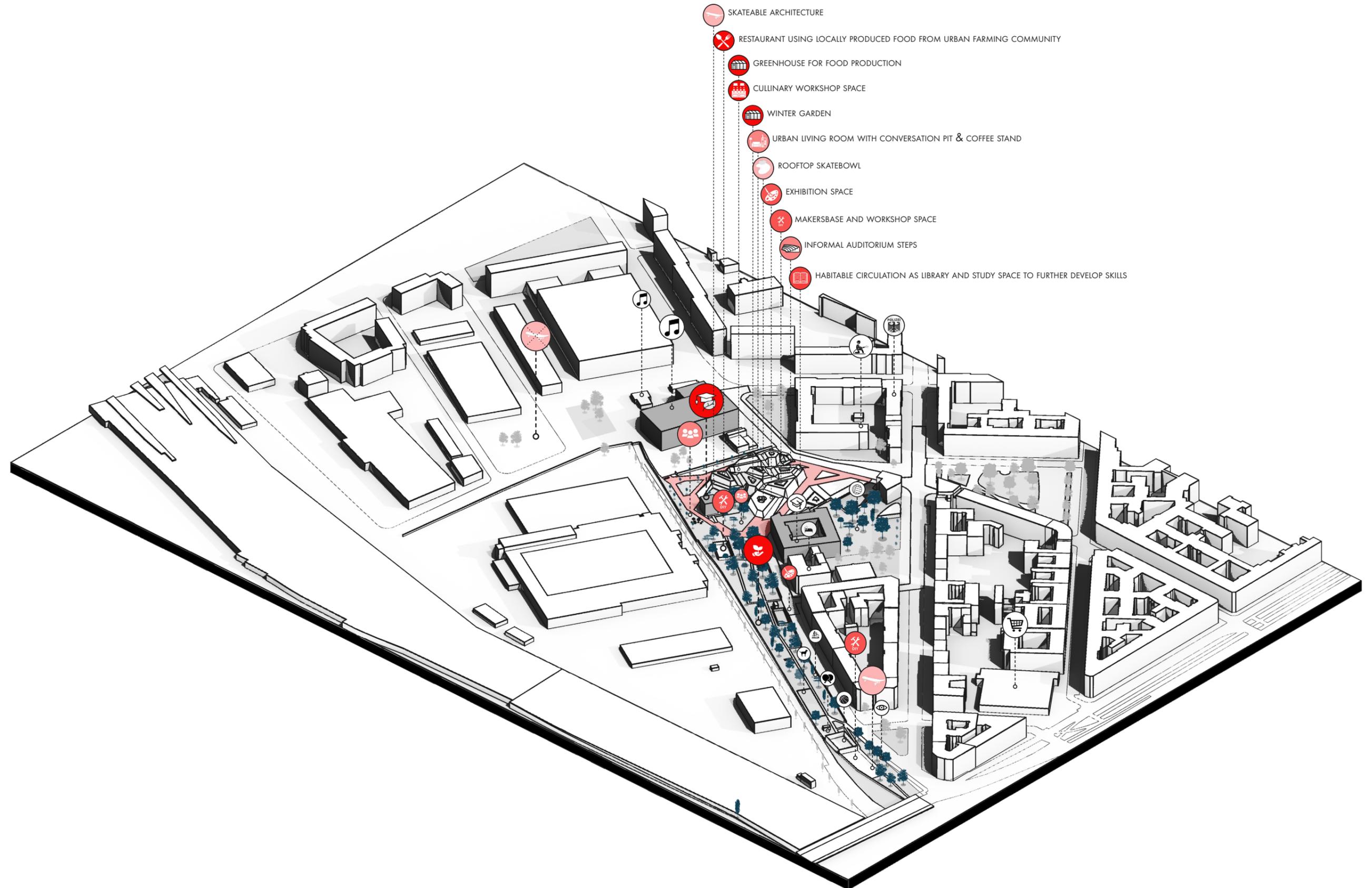
**DIVERSE CONTEXT**



**GREAT ACCESIBILITY**



# ARCHITECTURE AS COMPLEMENTARY PROGRAM

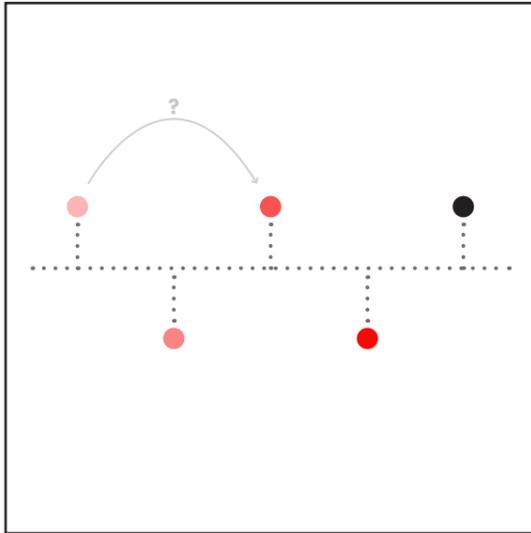


# OBSERVATIONS AS FRAMEWORK FOR DESIGN

1

## SOCIAL

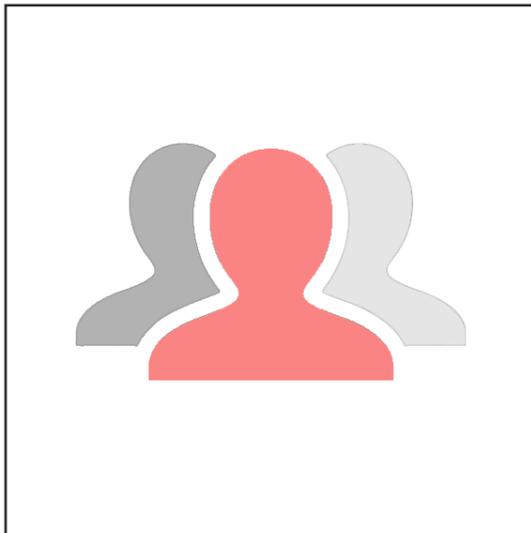
PROBLEMS



ISOLATED  
COMMUNITIES



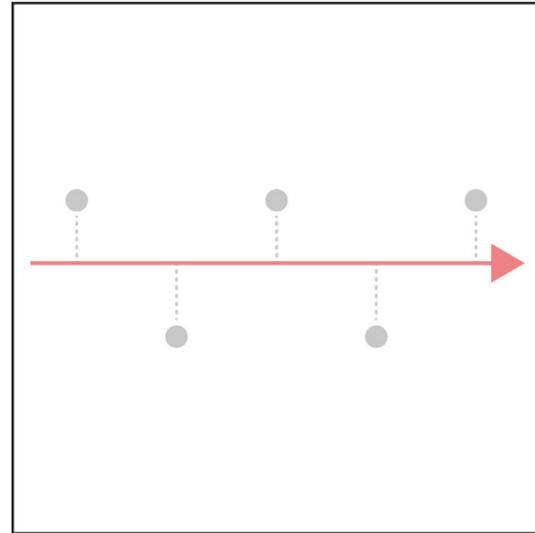
AMBITIONS



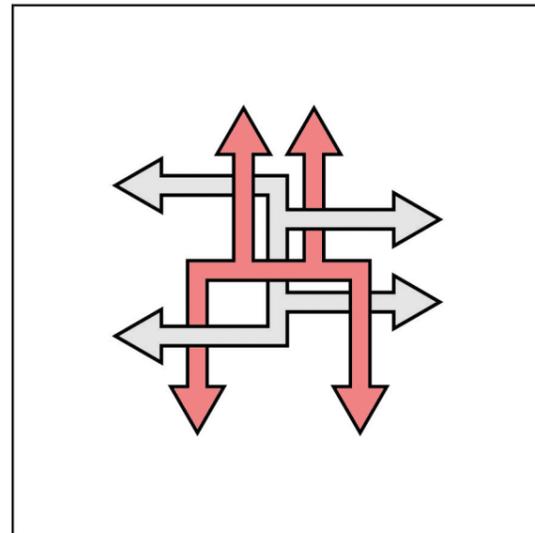
"HOW TO STIMULATE SOCIAL INTERACTIONS TO BRING THESE COMMUNITIES TOGETHER?"

2

## COMPLEXITY



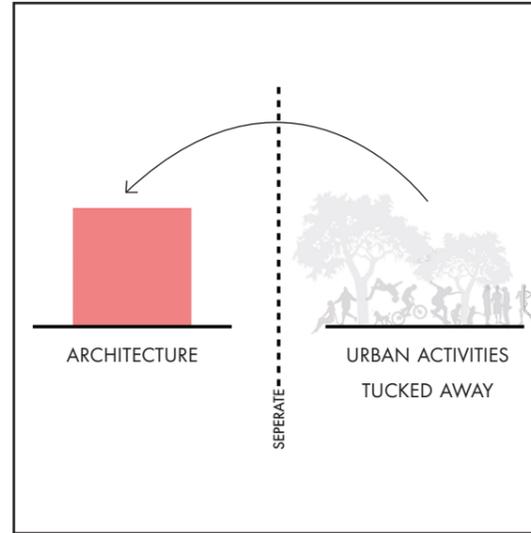
LACK OF COMPLEXITY + LINEARITY  
= PASSING THROUGH



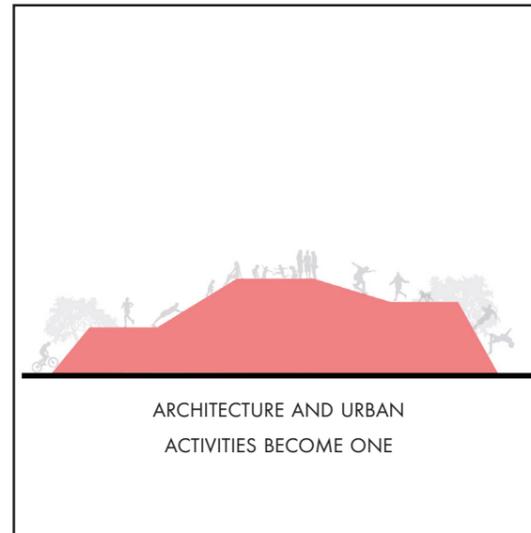
"HOW CAN WE USE COMPLEXITY TO INCREASE INTERACTION AND CREATE A HETEROGENOUS ENVIRONMENT?"

3

## URBAN ACTIVITIES



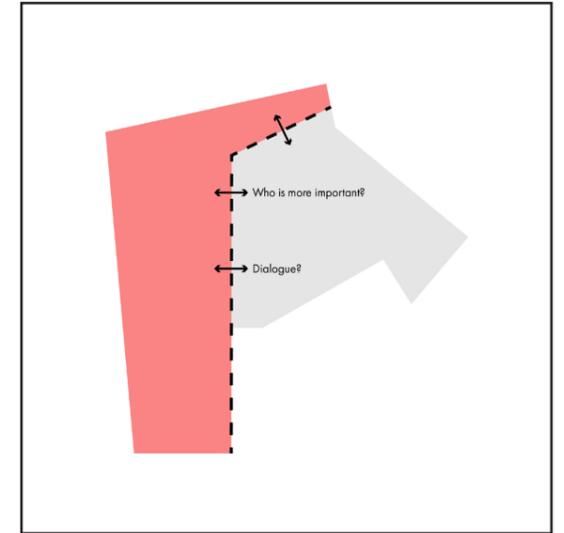
URBAN ACTIVITIES  
SEPERATE FROM ARCHITECTURE



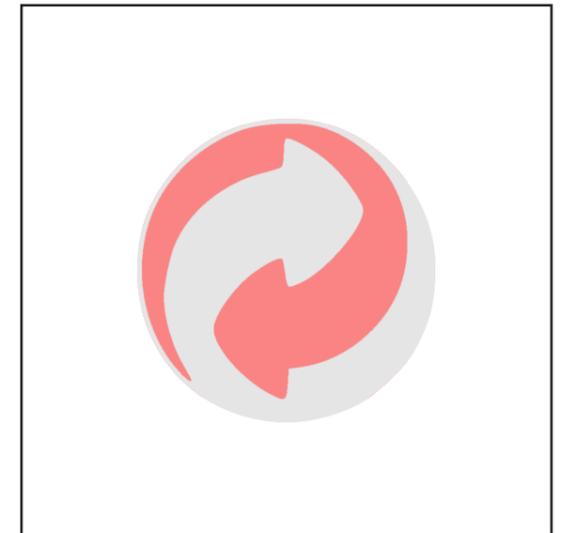
"WHAT ARCHITECTURAL SHAPES CAN PROVOKE ACTIVITY, WHILST BEING APPROPRIABLE FOR MULTIPLE USERS AT THE SAME TIME?"

4

## ARCHSCAPE

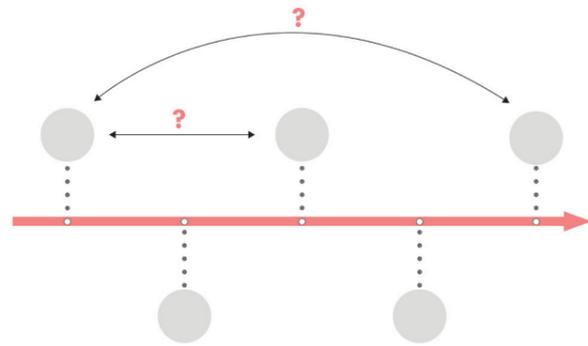


THRESHOLD  
PARK & URBANITY

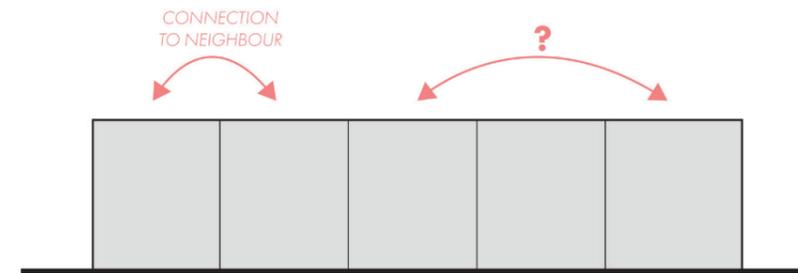


"HOW CAN **ARCHITECTURE** AND LAND**SCAPE** BE MERGED INTO ONE?"

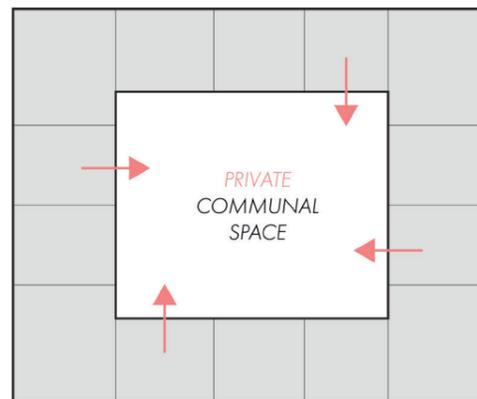
# HOW TO MIX THEM THROUGH FORM?



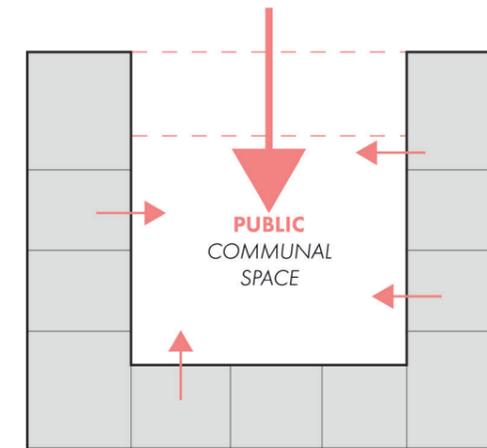
1. LINEARITY = LESS INTERACTION



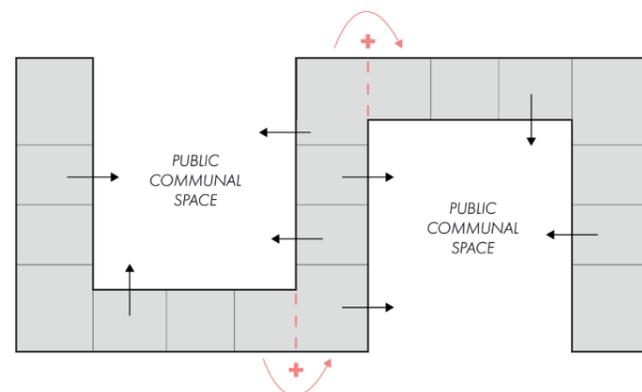
2. ROW TYPOLOGY = NO COMMUNAL SPACE



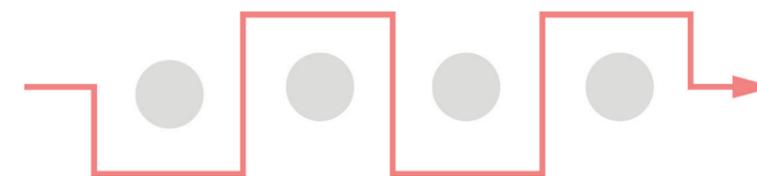
3. COURTYARD TYPOLOGY = PRIVATE COMMUNAL SPACE



4. BREAK OPEN COURTYARD = U-SHAPE WITH PUBLIC COMMUNAL SPACE

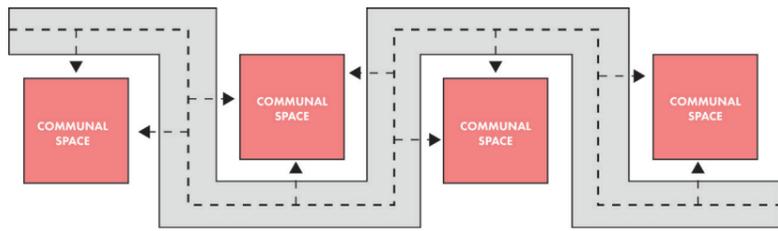


5. LINK & ALTERNATE = MEANDERING COURTYARDS

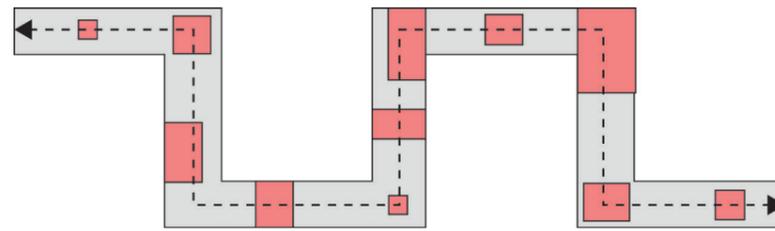


6. ZIGZAG PATTERN = PERMEABLE SHAPE

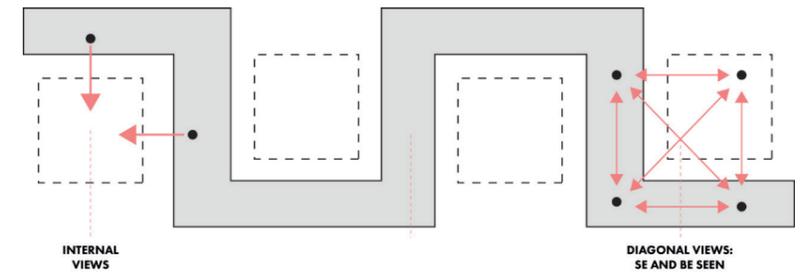
# ZIGZAG CHARACTERISTICS



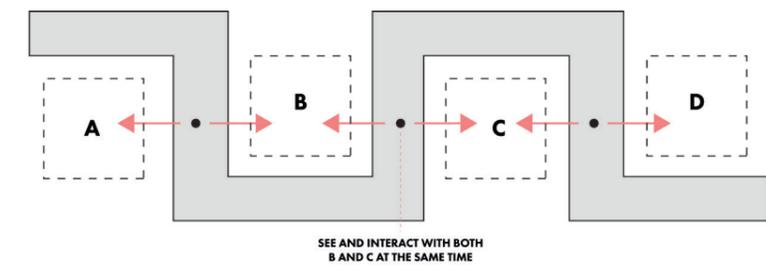
**1.** COMMUNAL SPACES IN COURTYARDS, SURROUNDED BY CIRCULATION



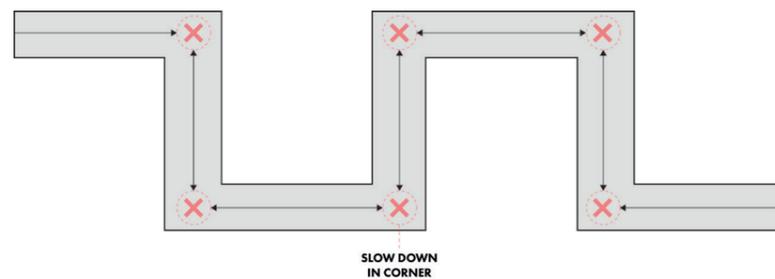
**2.** INTERSECTED PROGRAM WITH CIRCULATION = HABITABLE CIRCULATION FOR INCREASED INTERACTIONS



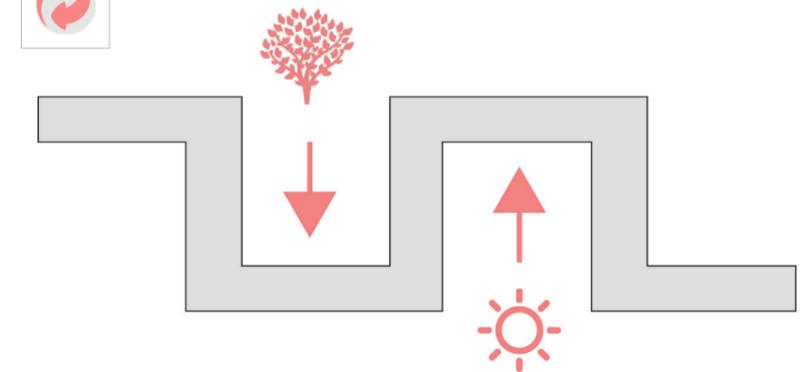
**3.** VIEWS FOR SOCIAL INTERACTION AND EXPLORATION



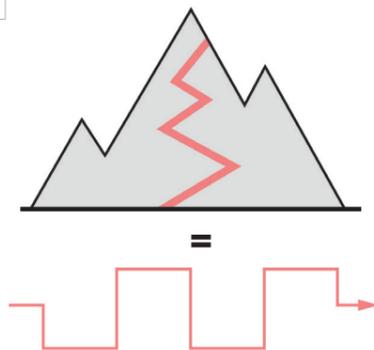
**4.** HETEROGENOUS INTERACTION & PERSPECTIVES VS MONOTONOUS DUE TO LINEARITY



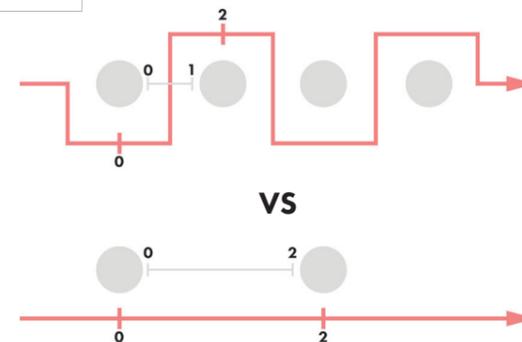
**5.** CORNERS SLOW USERS DOWN



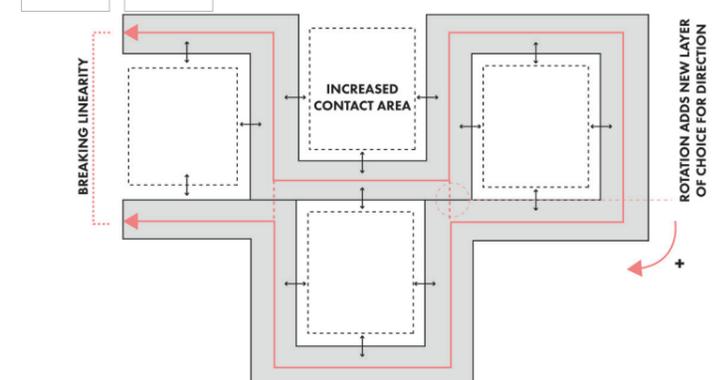
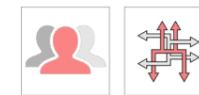
**6.** INVITE CONTEXT, NATURE AND DAYLIGHT IN



**7.** SUITABLE FOR GAINING HEIGHT



**8.** REDUCES DISTANCE BETWEEN SPACES, BY EXPANDING CONTACT AREA

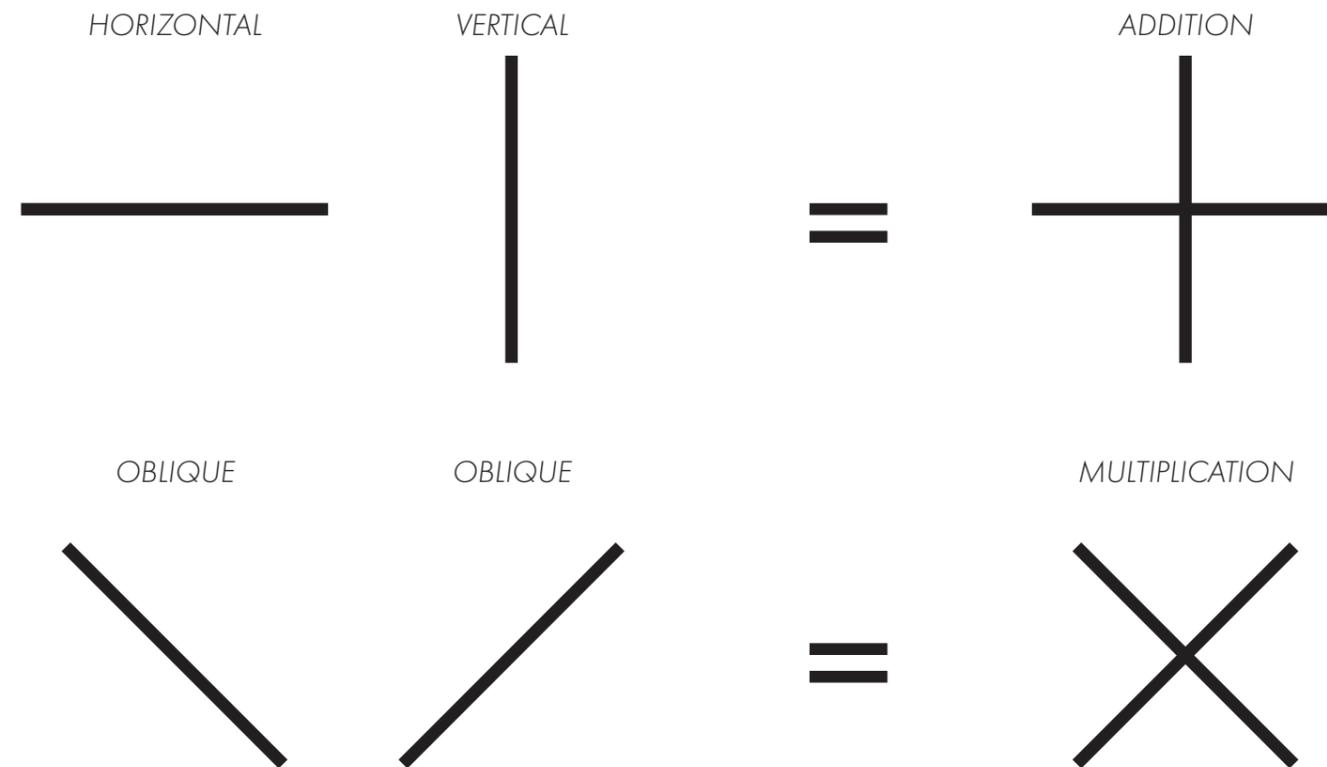


**9.** LINK & ROTATE = ENHANCED CHARACTERISTICS

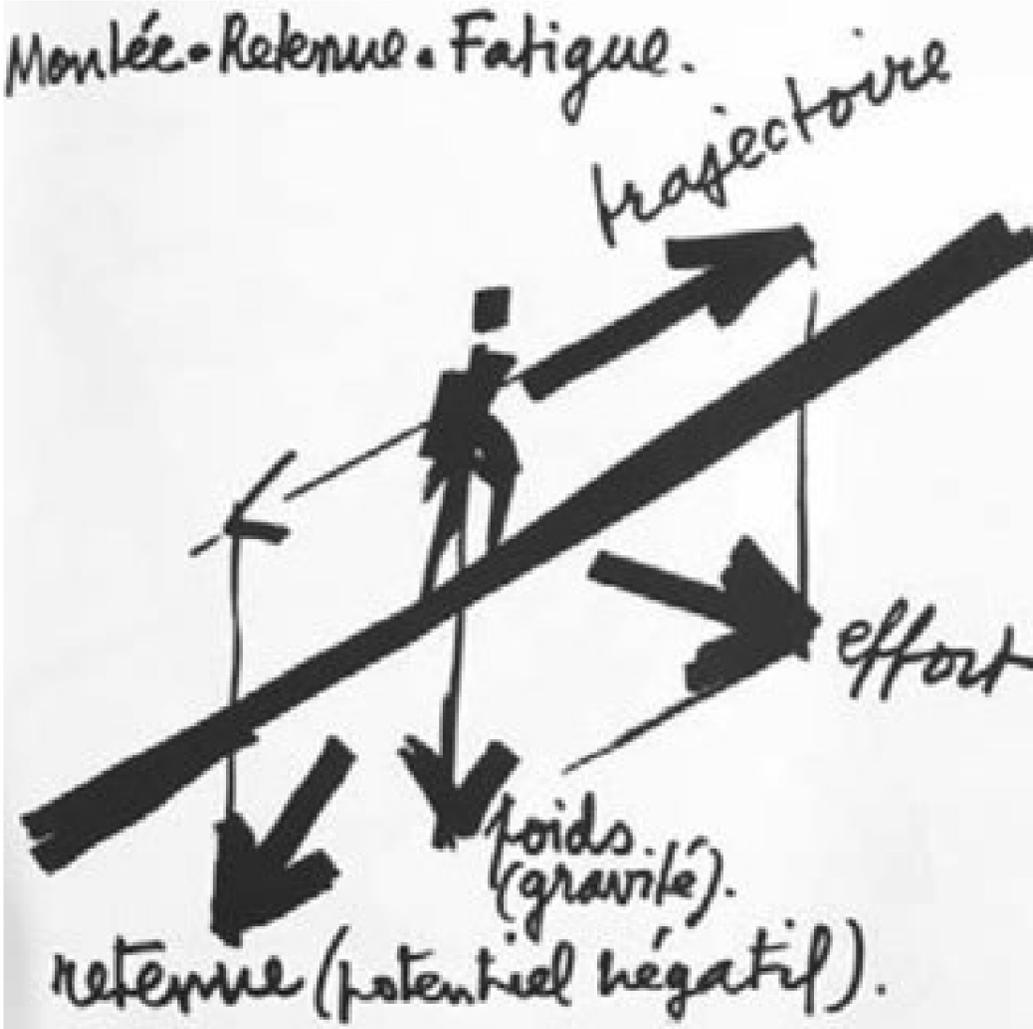
# THE OBLIQUE

*"BEING INCLINED, THE WALL BECOMES EXPERIENCEABLE"*

PAUL VIRILLIO, CLAUDE PARENT - FUNCTION OF THE OBLIQUE



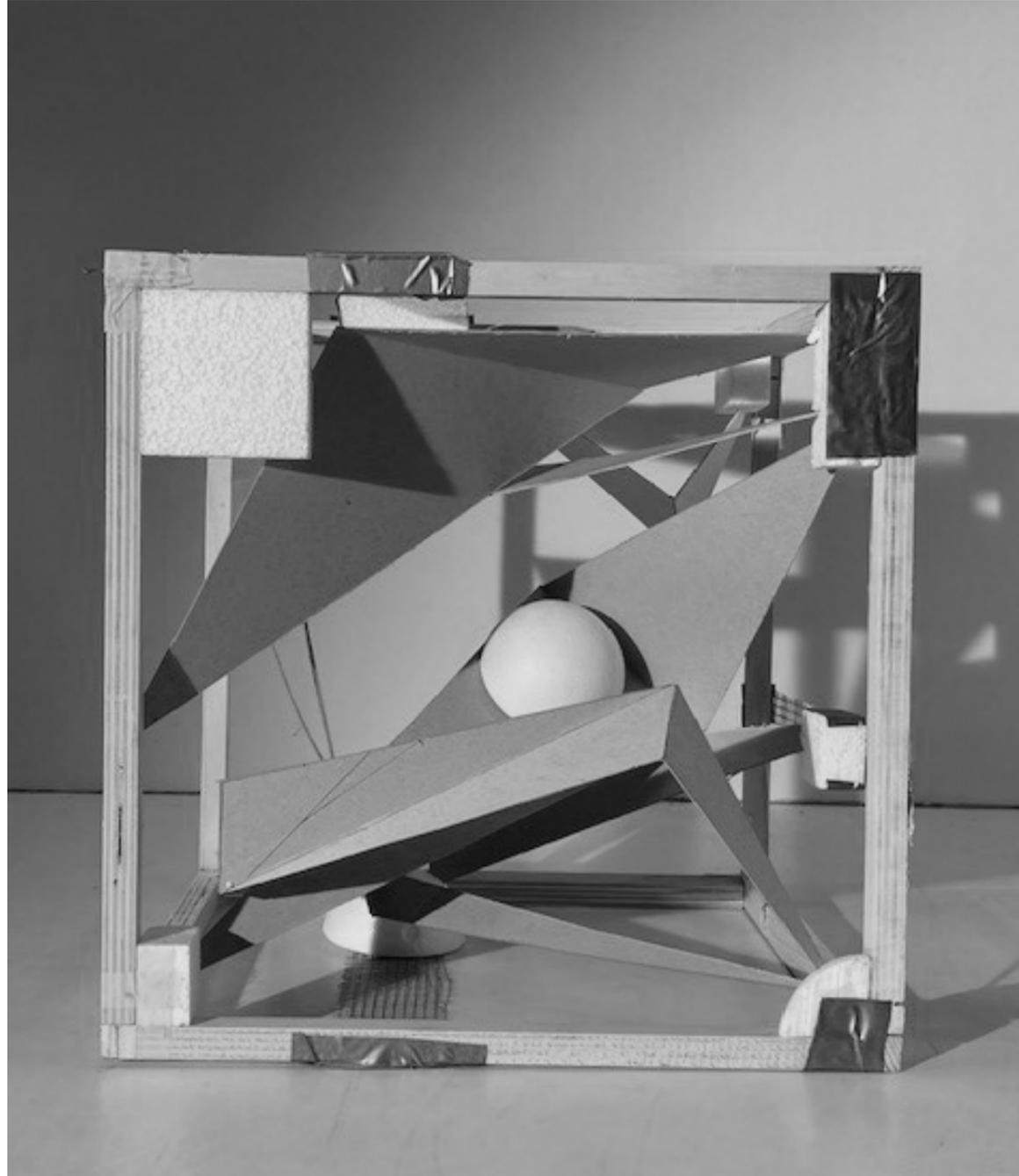
# FUNCTION OF THE OBLIQUE



# THE OBLIQUE AND PERCEPTION



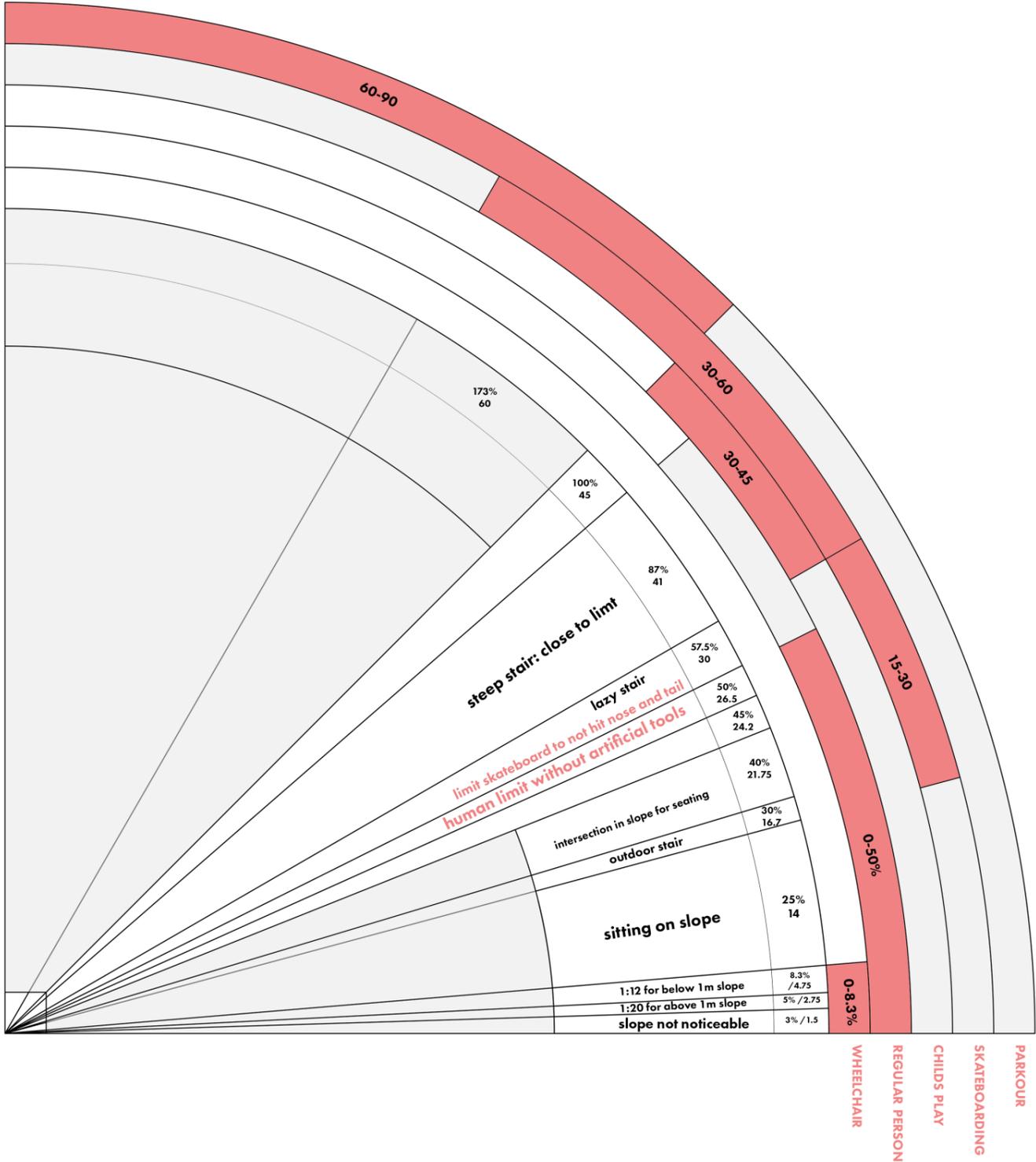
# THE OBLIQUE AND PERCEPTION



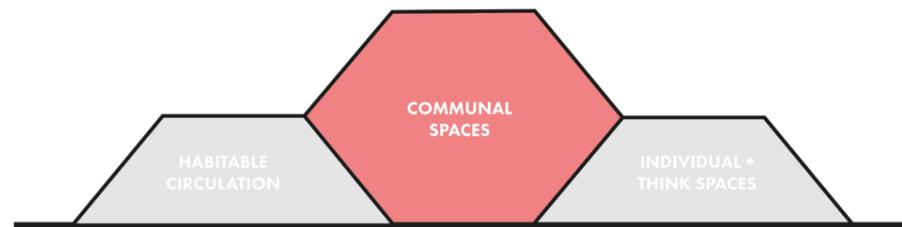
# THE OBLIQUE AND STREET CULTURE



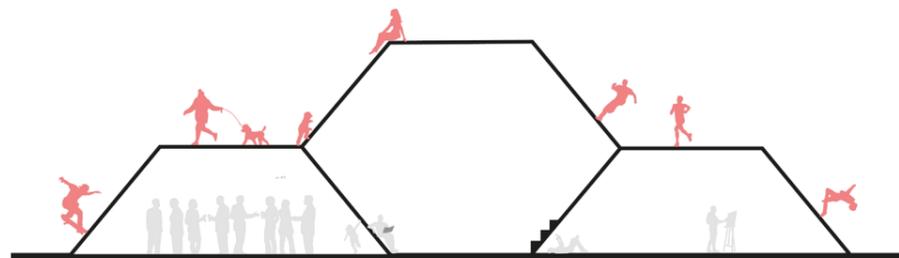
# VARIETY OF ANGLES FOR A VARIETY OF USE



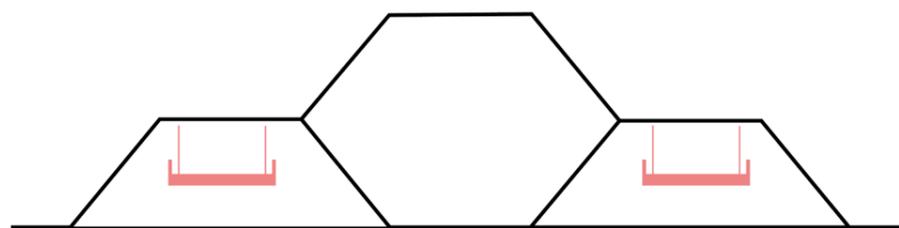
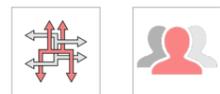
# OBLIQUE SECTION CONCEPT



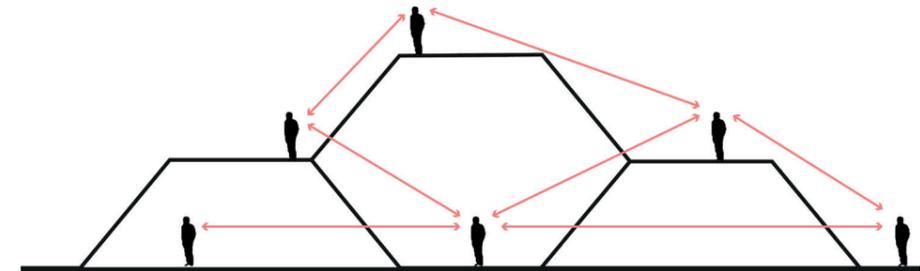
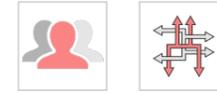
1. PROGRAM DISTRIBUTION:  
COMMUNAL VS INDIVIDUAL



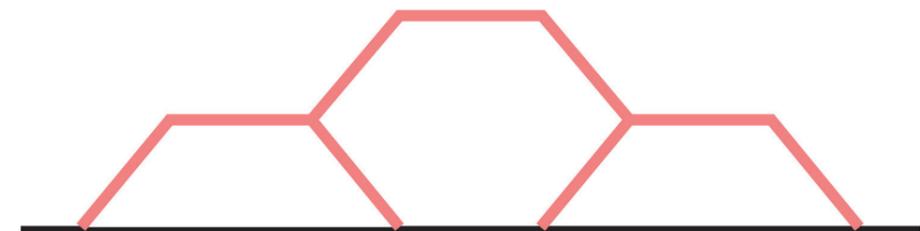
3. FORM PROVOKES ACTIVITY INSIDE AND OUTSIDE  
AT THE SAME TIME



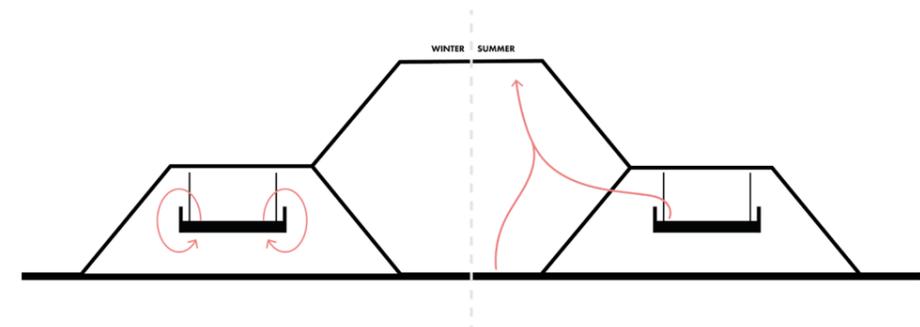
5. LEVELS SEPERATED FROM PORTAL STRUCTURE



2. VISUAL CONNECTIONS ON ALL LAYERS,  
DUE TO DIAGONAL

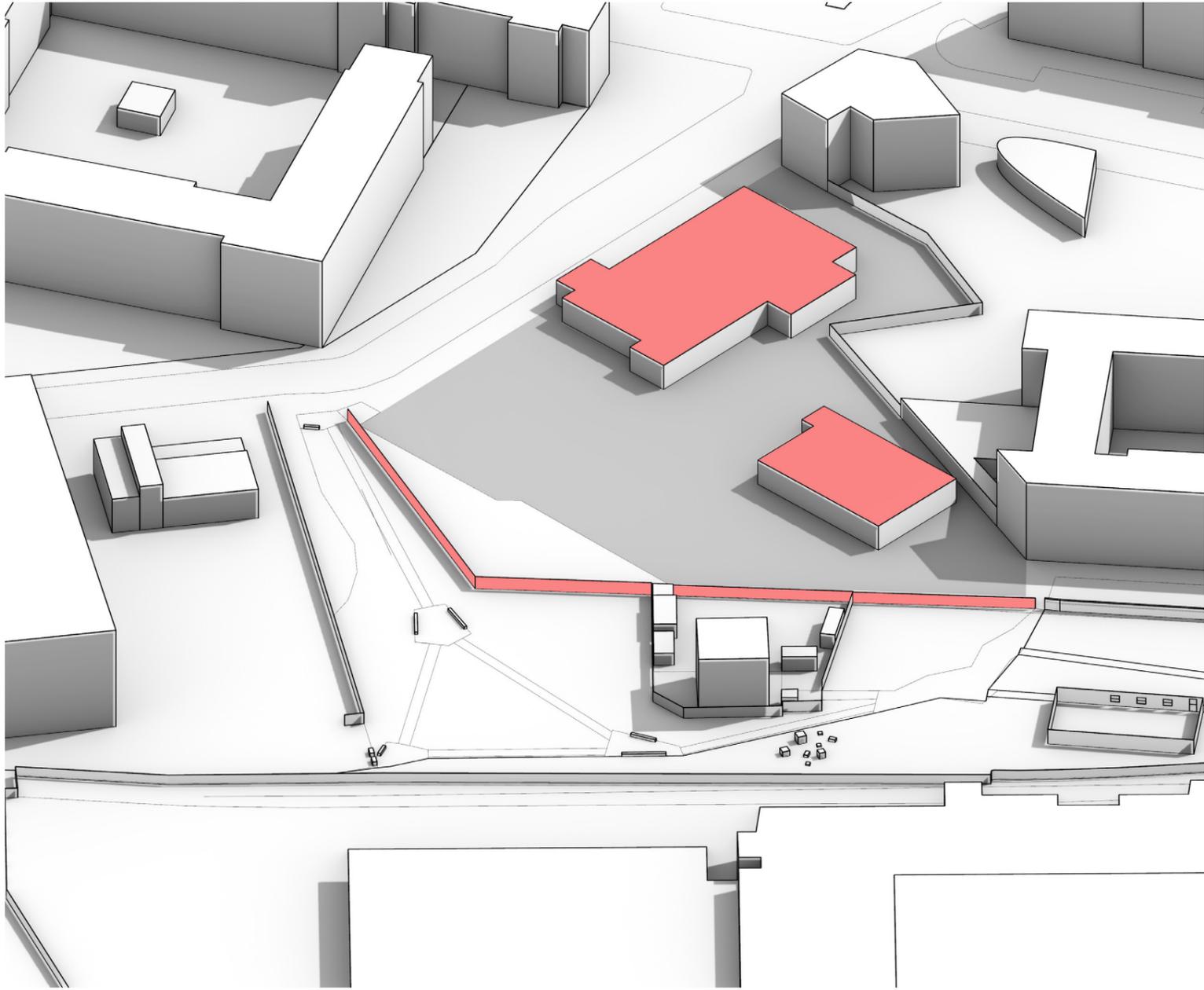


4. PORTAL CONSTRUCTION  
STRUCTURES THE ARCHITECTURE



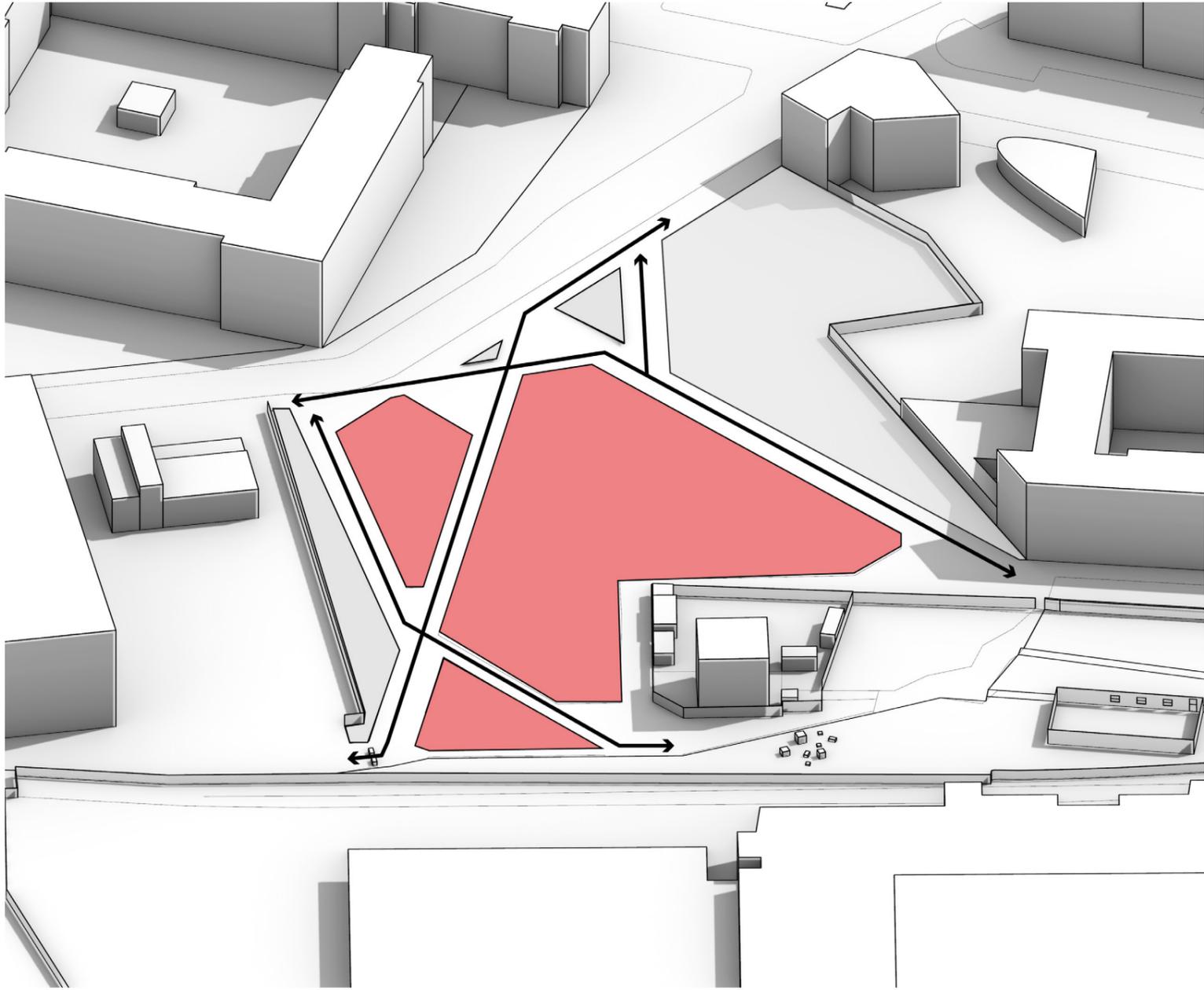
6. MAIN STRUCTURE FREE OF VENTILATION CANALS

# FORM CONCEPT



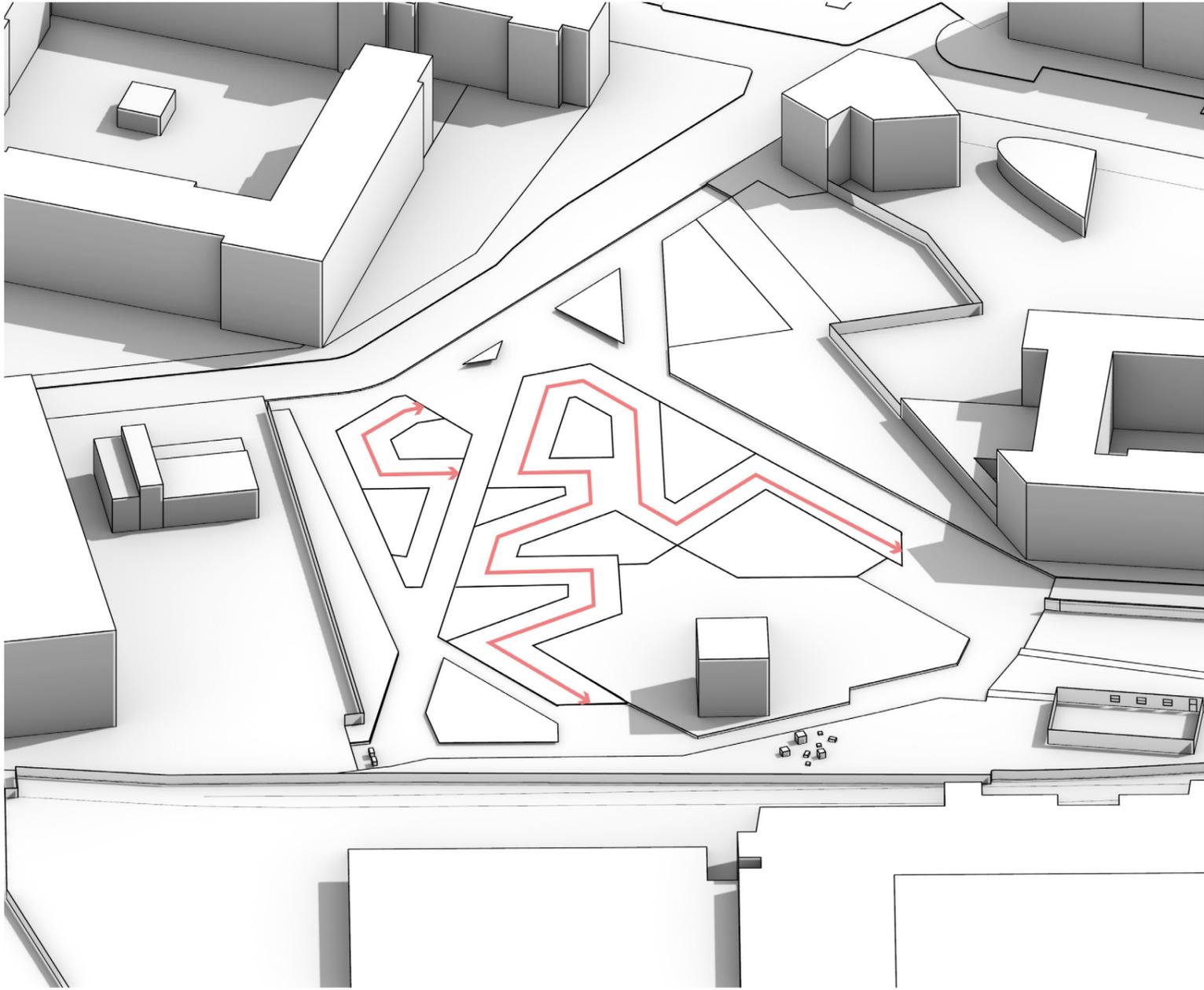
**1.** REMOVE ANOMALIES TO MAKE SPACE FOR A MORE COHESIVE AND INTEGRATED CULTURAL SPACE

# FORM CONCEPT



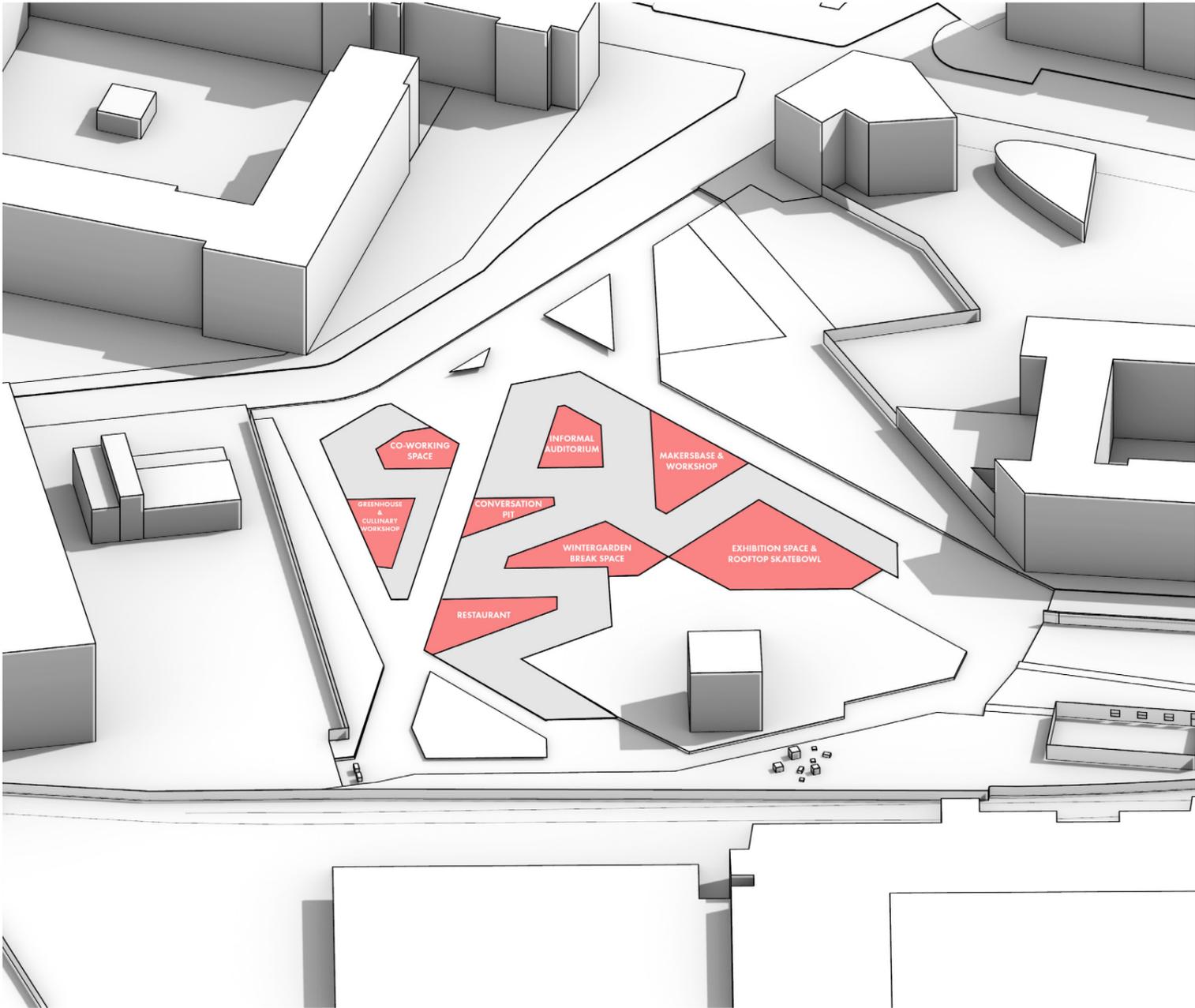
**2.** *EXTEND PARK INTO SITE AND CREATE CONNECTIONS*

# FORM CONCEPT



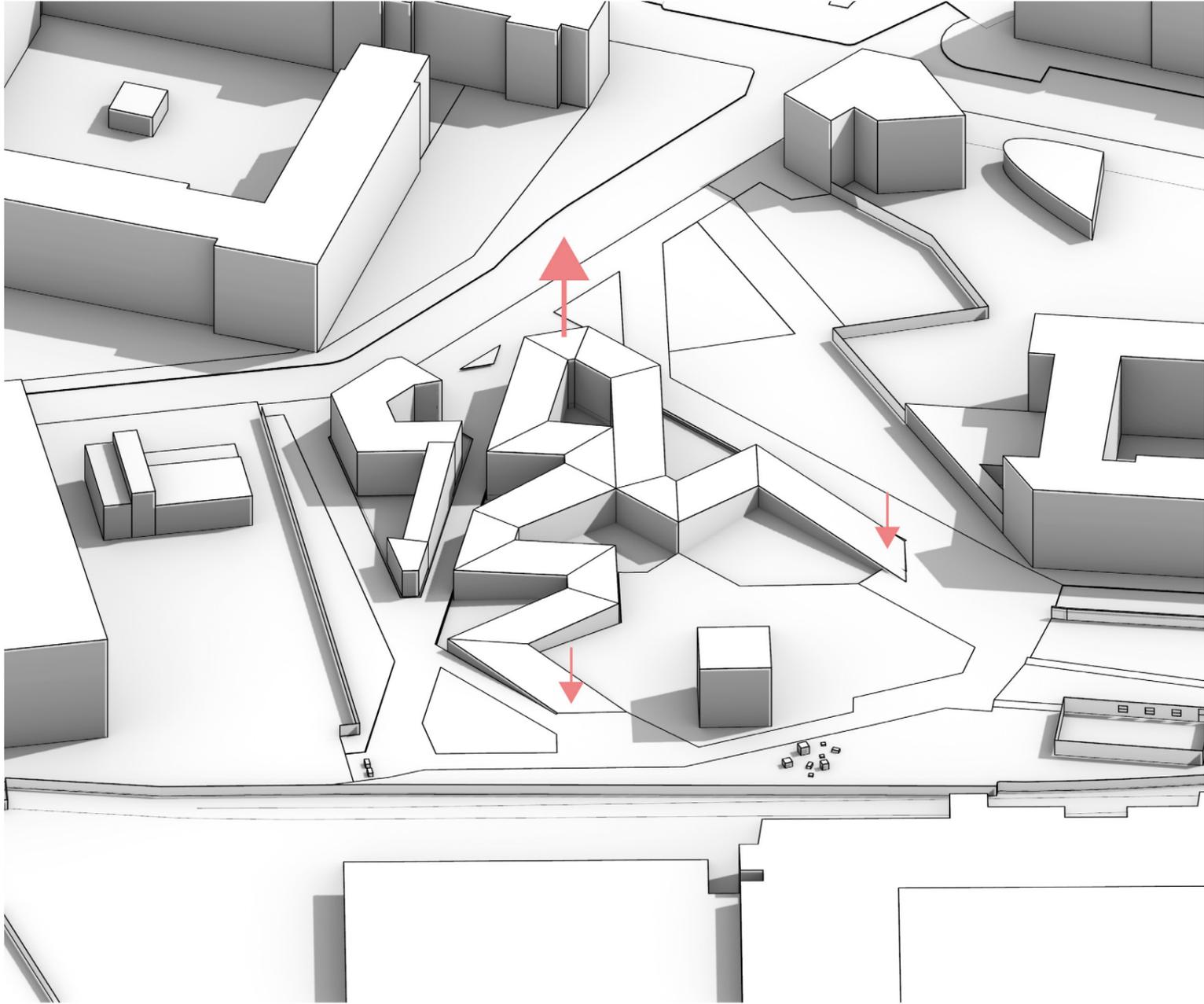
3. ZIGZAG PATTERN ON SITE BREAKS LINEARITY

# FORM CONCEPT



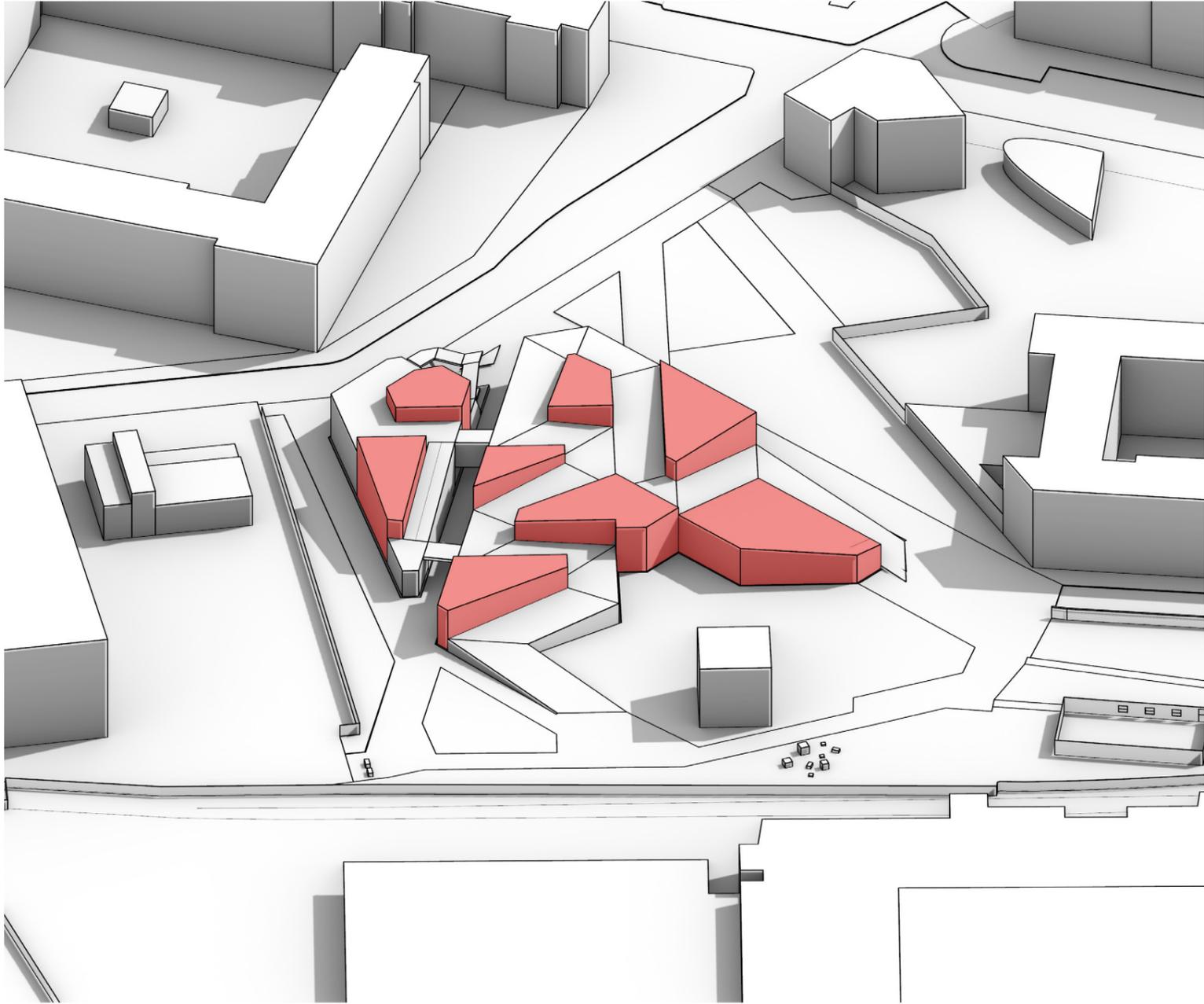
4. COMMUNAL SPACES AND HABITABLE CIRCULATION CREATED BY ZIGZAG

# FORM CONCEPT



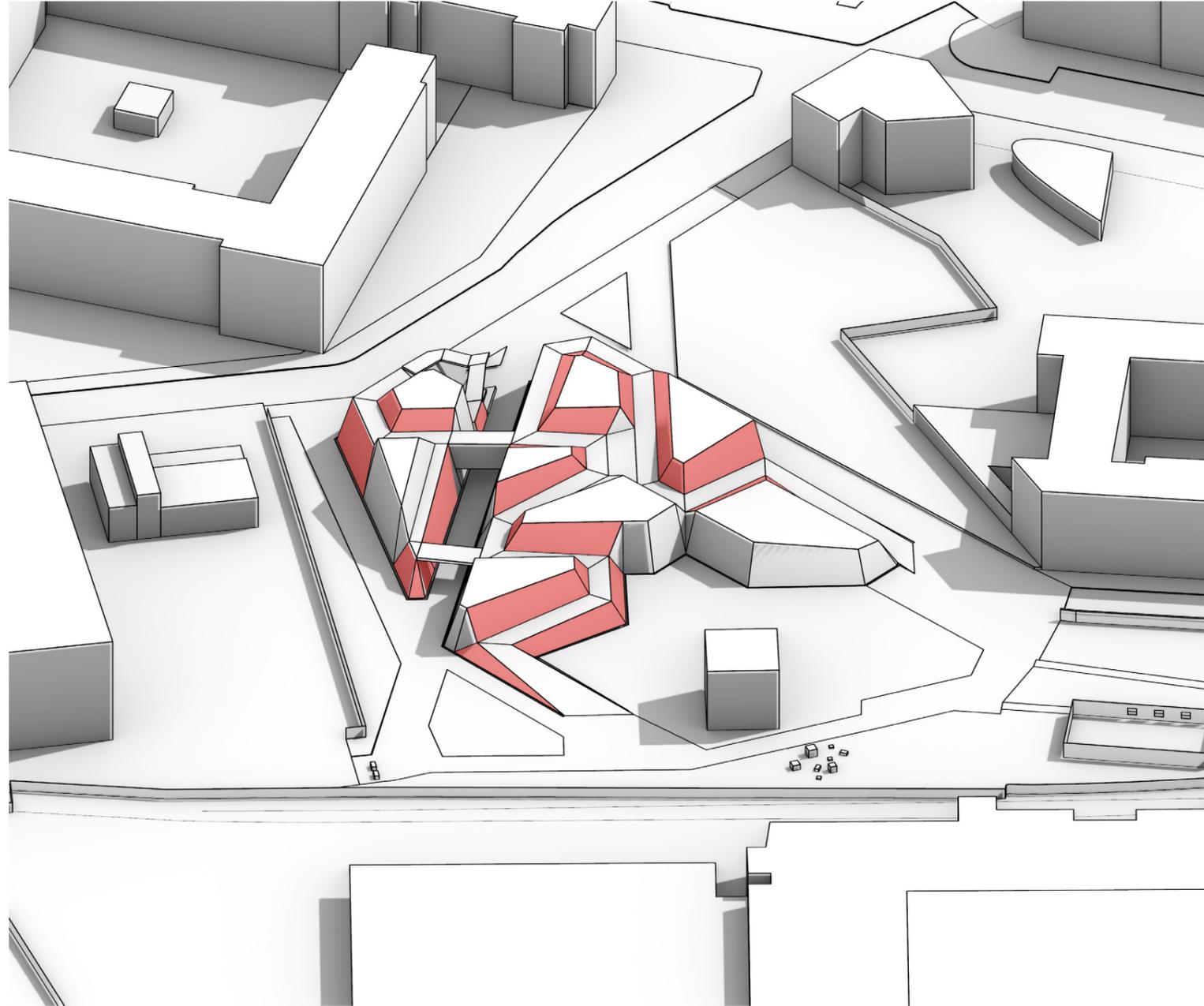
5. OBLIQUE ROUTE UP AND DOWN

# FORM CONCEPT



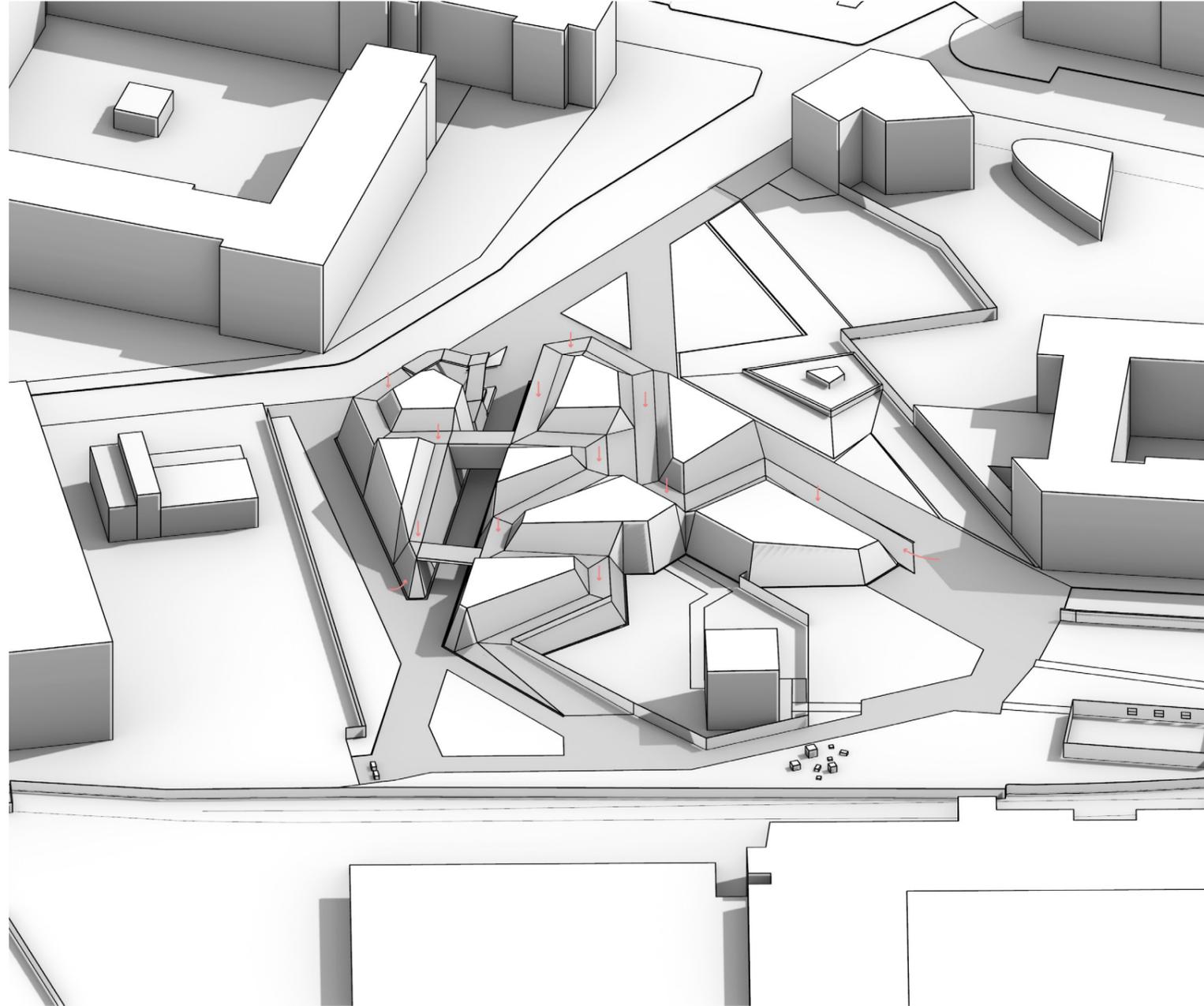
6. ACCENTUATED COMMUNAL SPACES CREATE MORE PERMEABLE SHAPE

# FORM CONCEPT



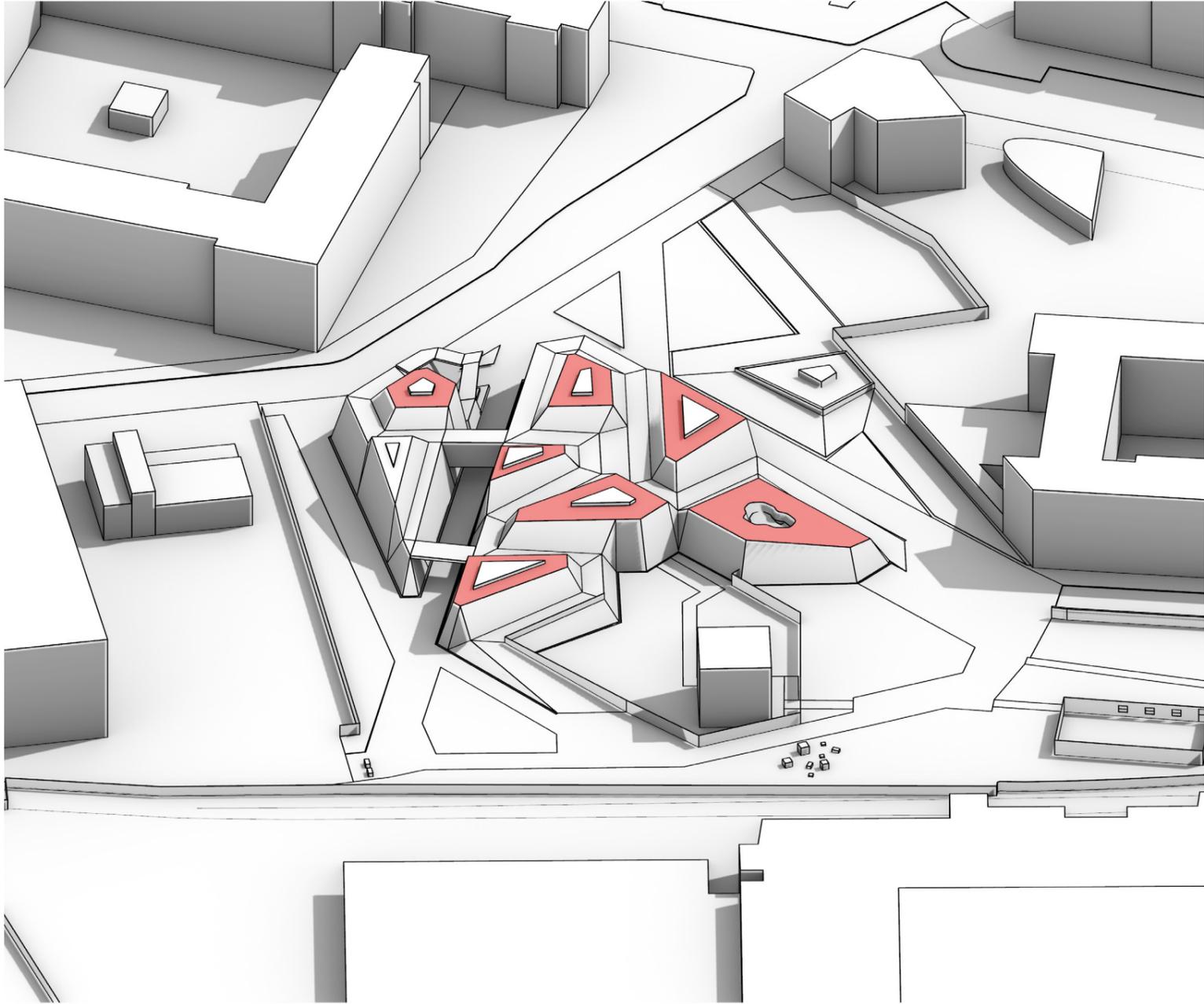
**7.** *DOUBLE OBLIQUE, FIXED X DISTANCE [2.4-3.6-2.4] AND DIFFERENTIATING Z DISTANCE.  
EXPERIENCEABLE FACADE WITH VARYING ANGLES*

# FORM CONCEPT



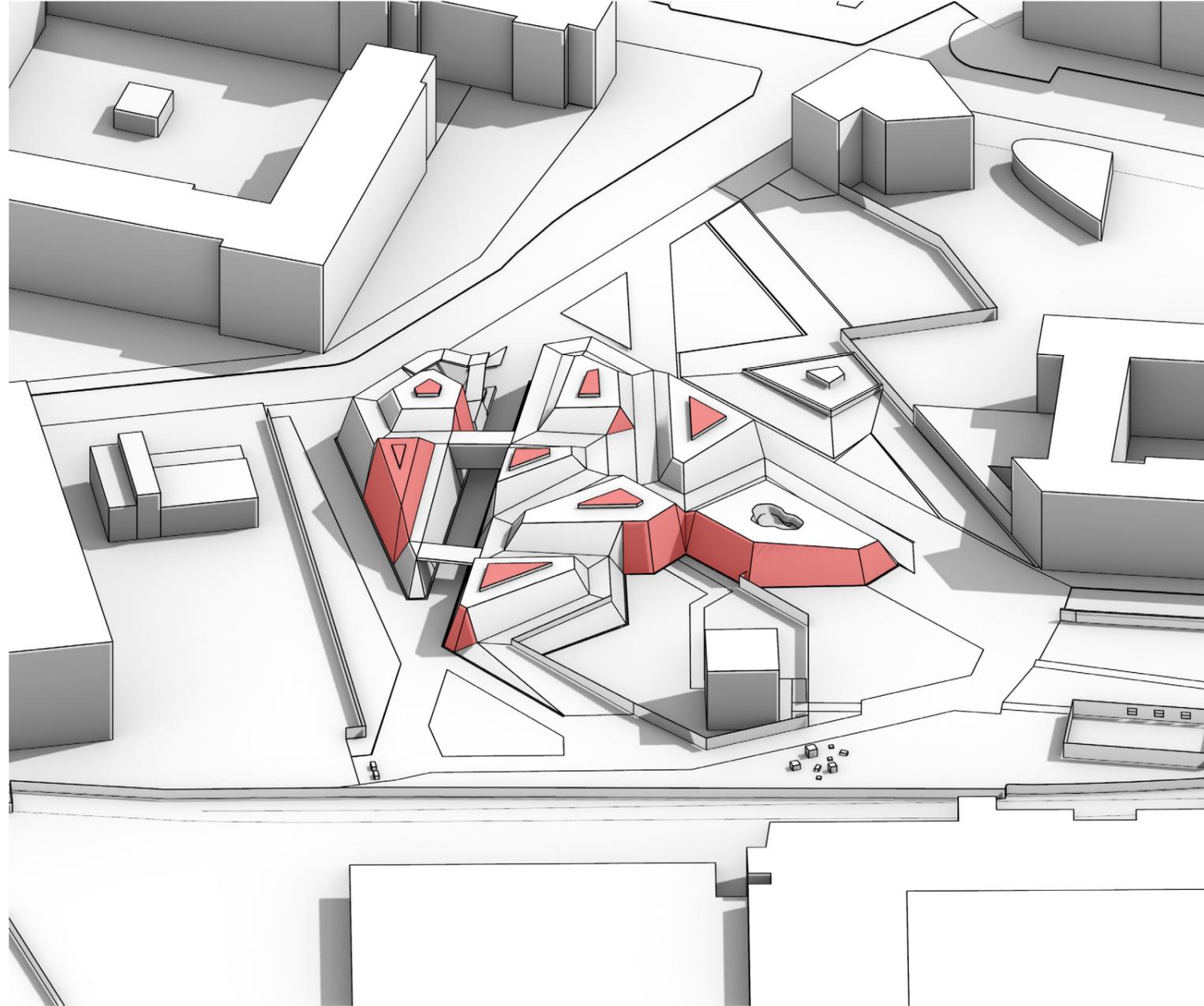
**8.** BLANKET OF GREY BRICKS EXTENDS STREET ONTO THE ROOF.  
STREETScape BECOMES ROOFSCAPE

# FORM CONCEPT



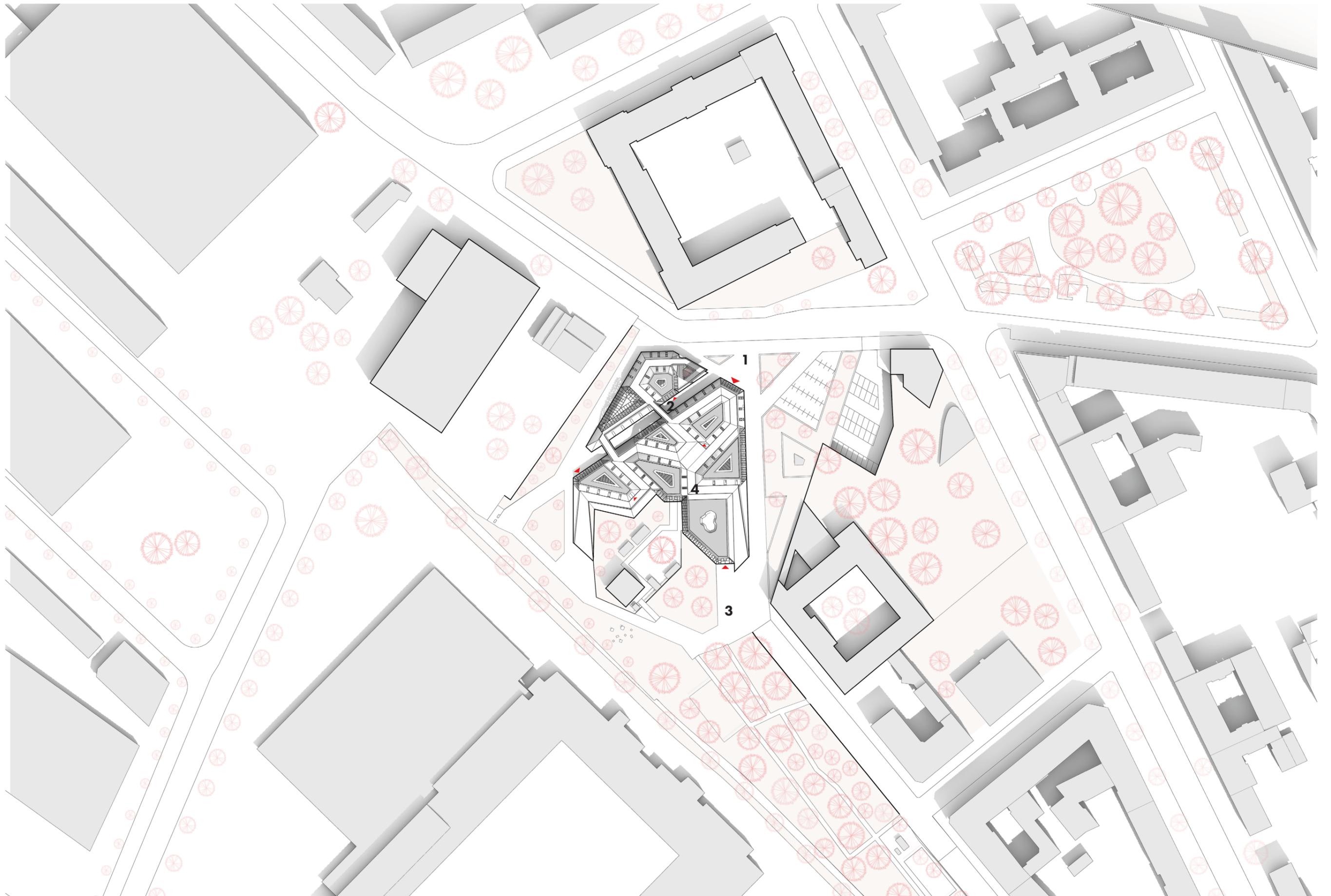
9. COMMUNAL SPACES ON ROOF

# FORM CONCEPT



**10.** *TRANSPARENCY TO THE INTERIOR THROUGH LARGE GLASS FACADES AND SKYLIGHTS.*

# SITEPLAN





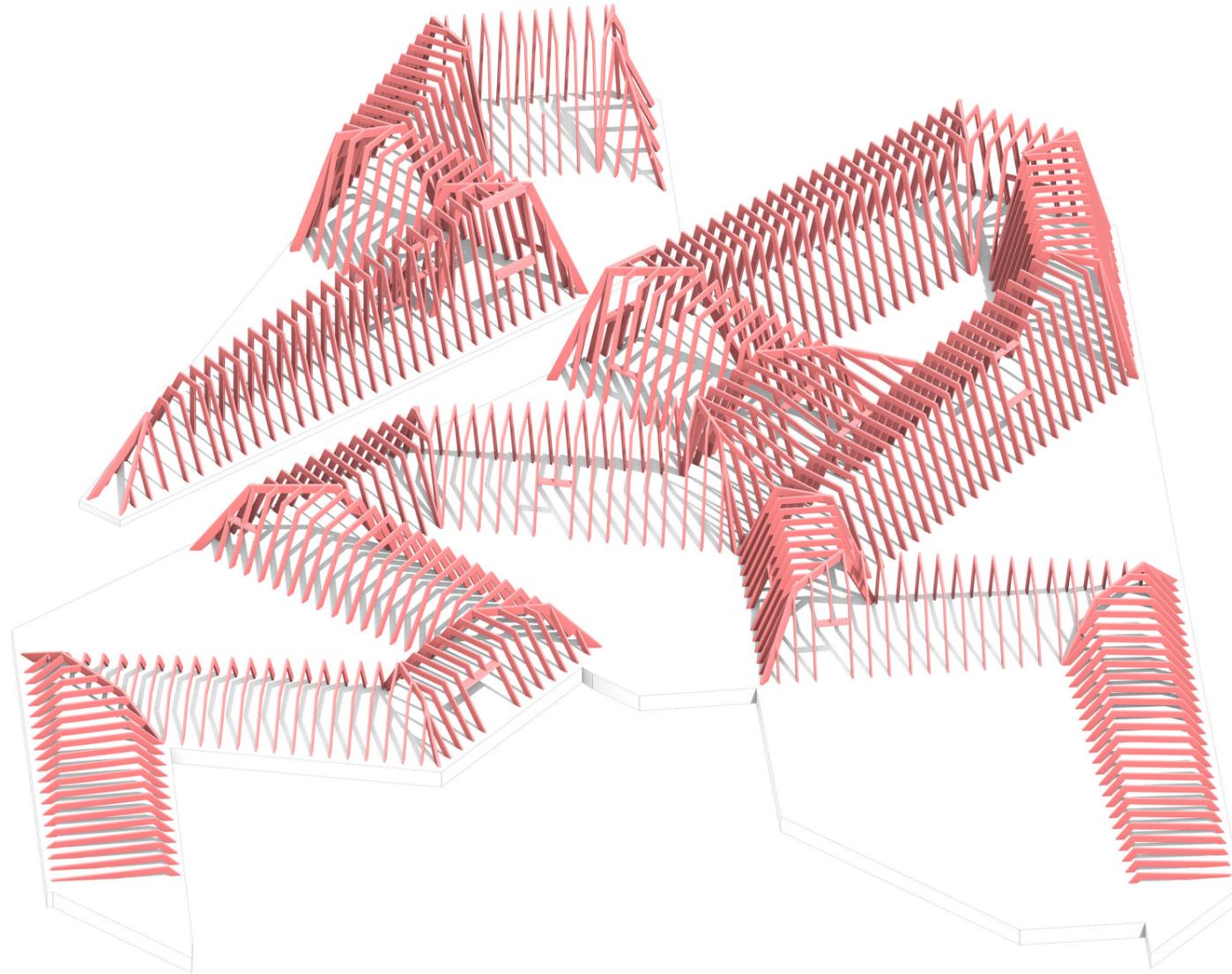






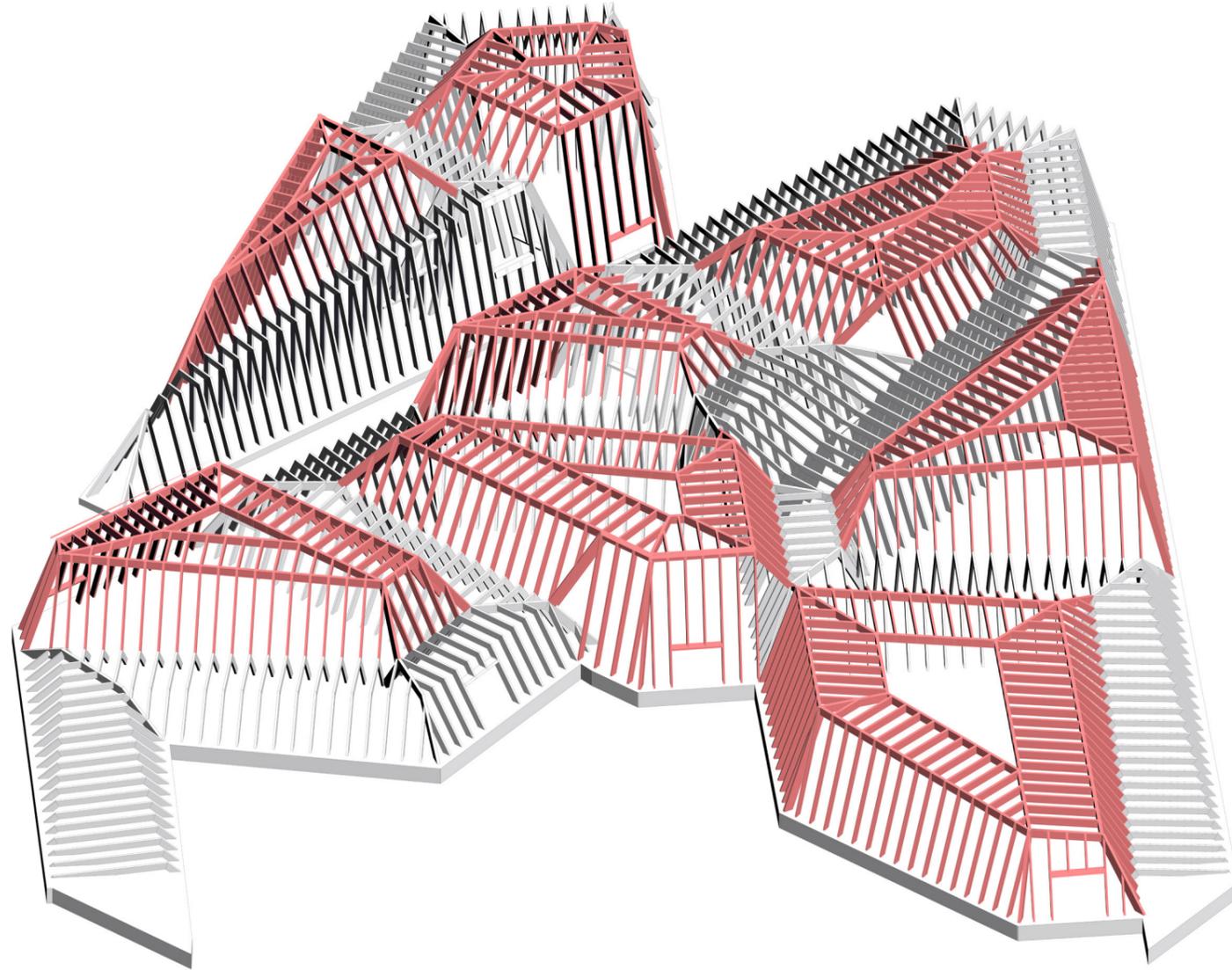


# STRUCTURAL CONCEPT



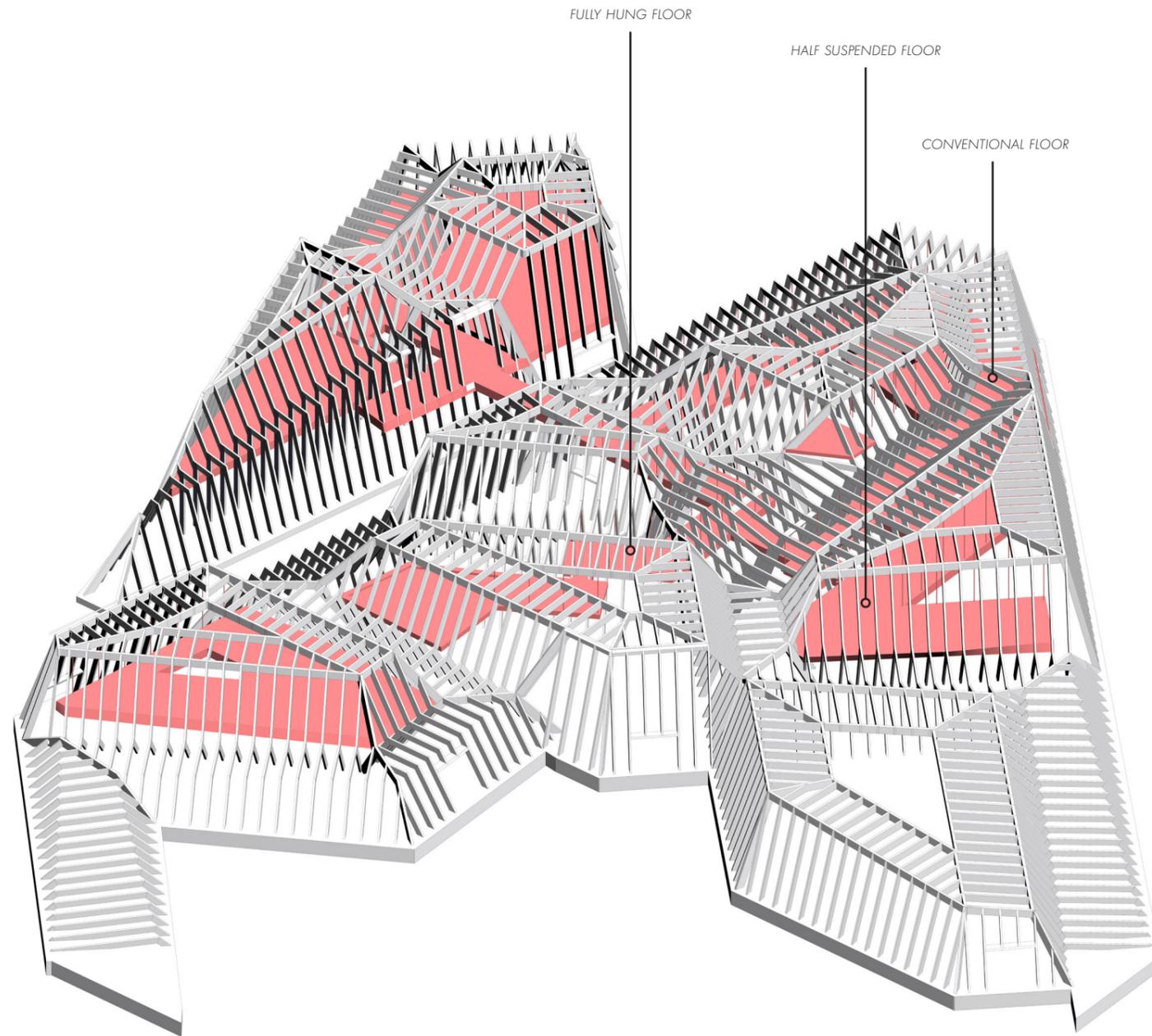
*GLULAM STRUCTURE ALONG ZIGZAG STRUCTURES THE BUILDING*

# STRUCTURAL CONCEPT



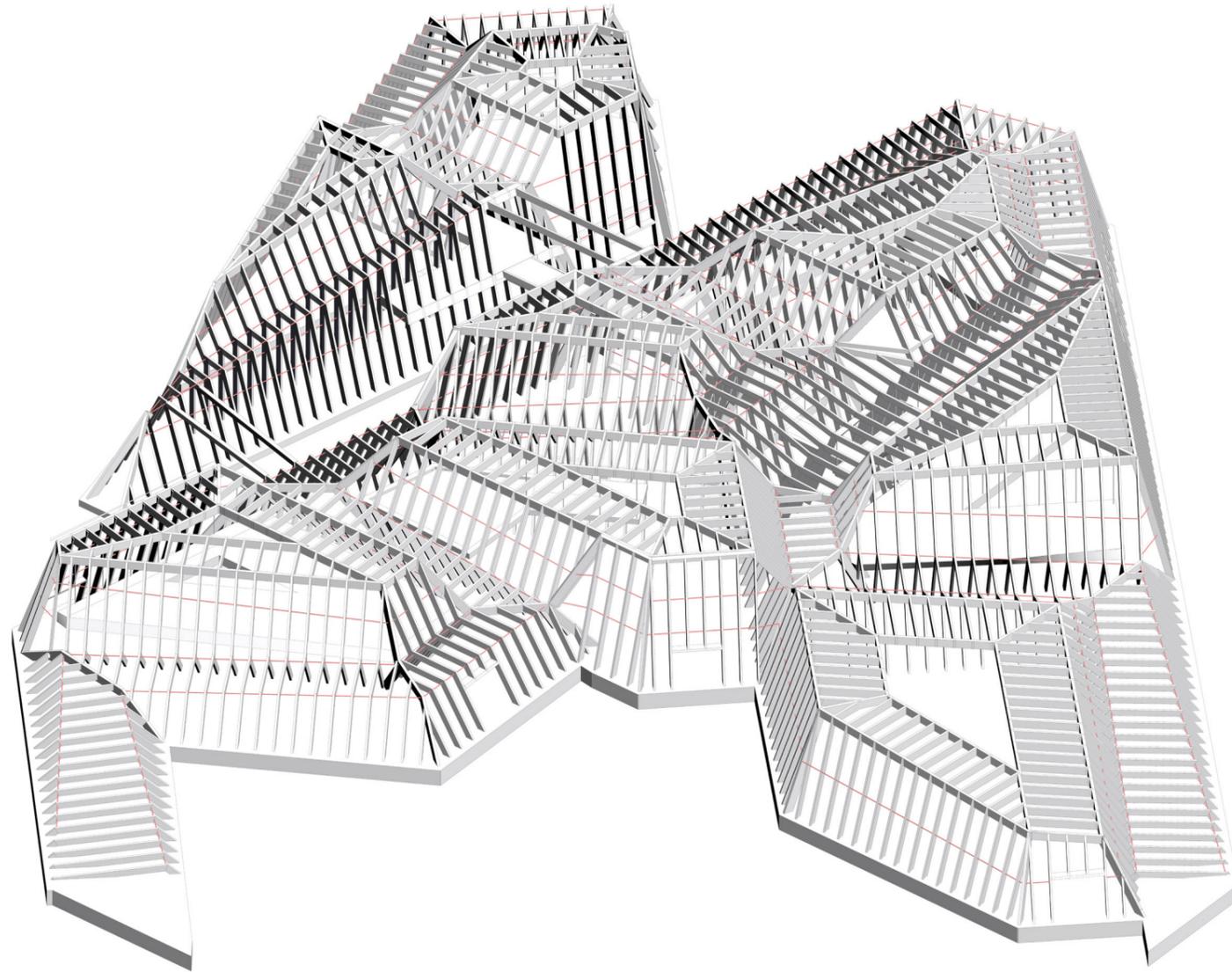
*GLULAM STRUCTURE FOR COMMUNAL SPACES AS EXTENDED PORTALS FROM ZIGZAG COMING TOGETHER IN  
MULTIPLE DIRECTIONS*

# STRUCTURAL CONCEPT



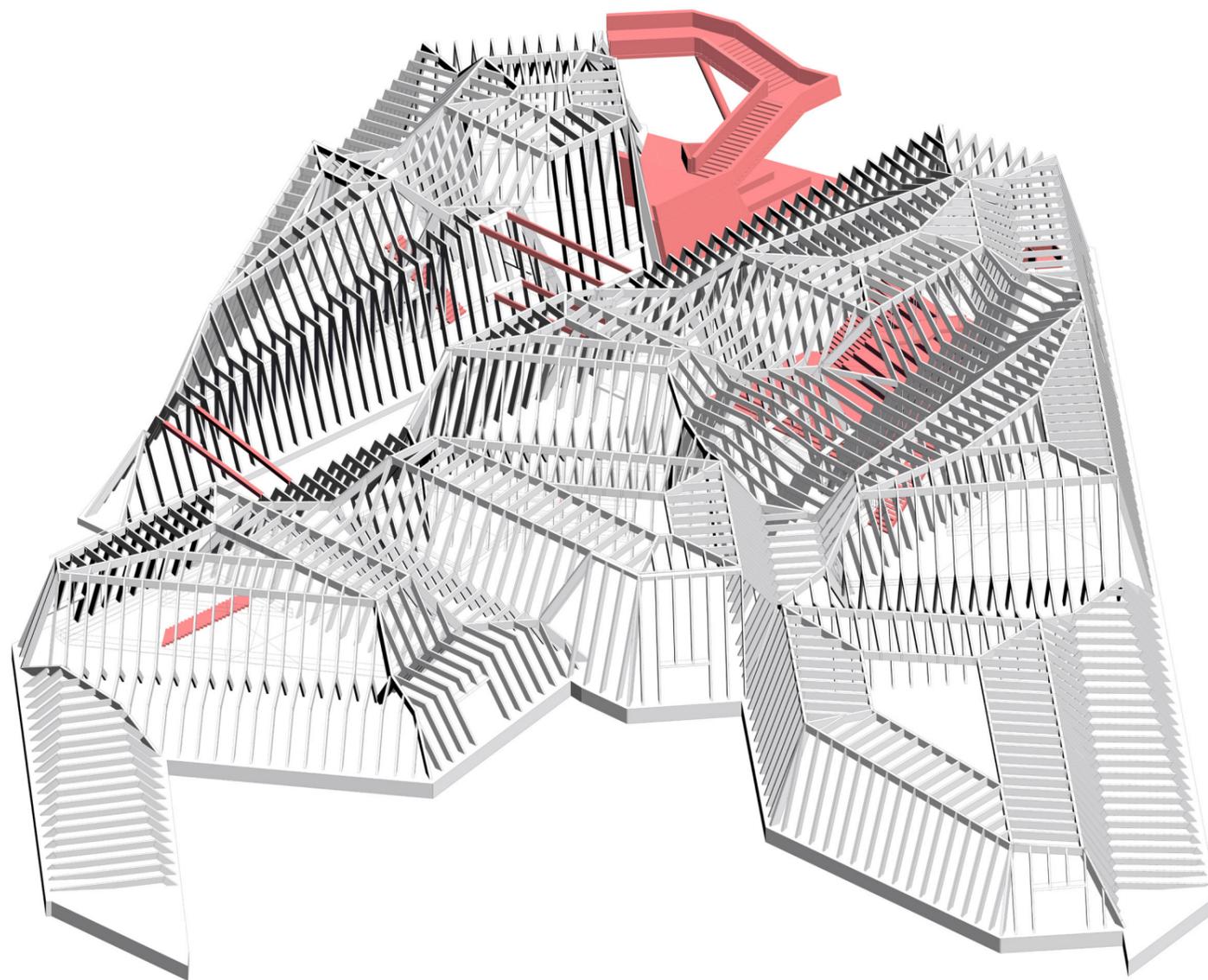
3 TYPES OF APPROACHING THE STRUCTURE OF THE FLOOR, SHAPING THE 1<sup>ST</sup> LEVEL

# STRUCTURAL CONCEPT



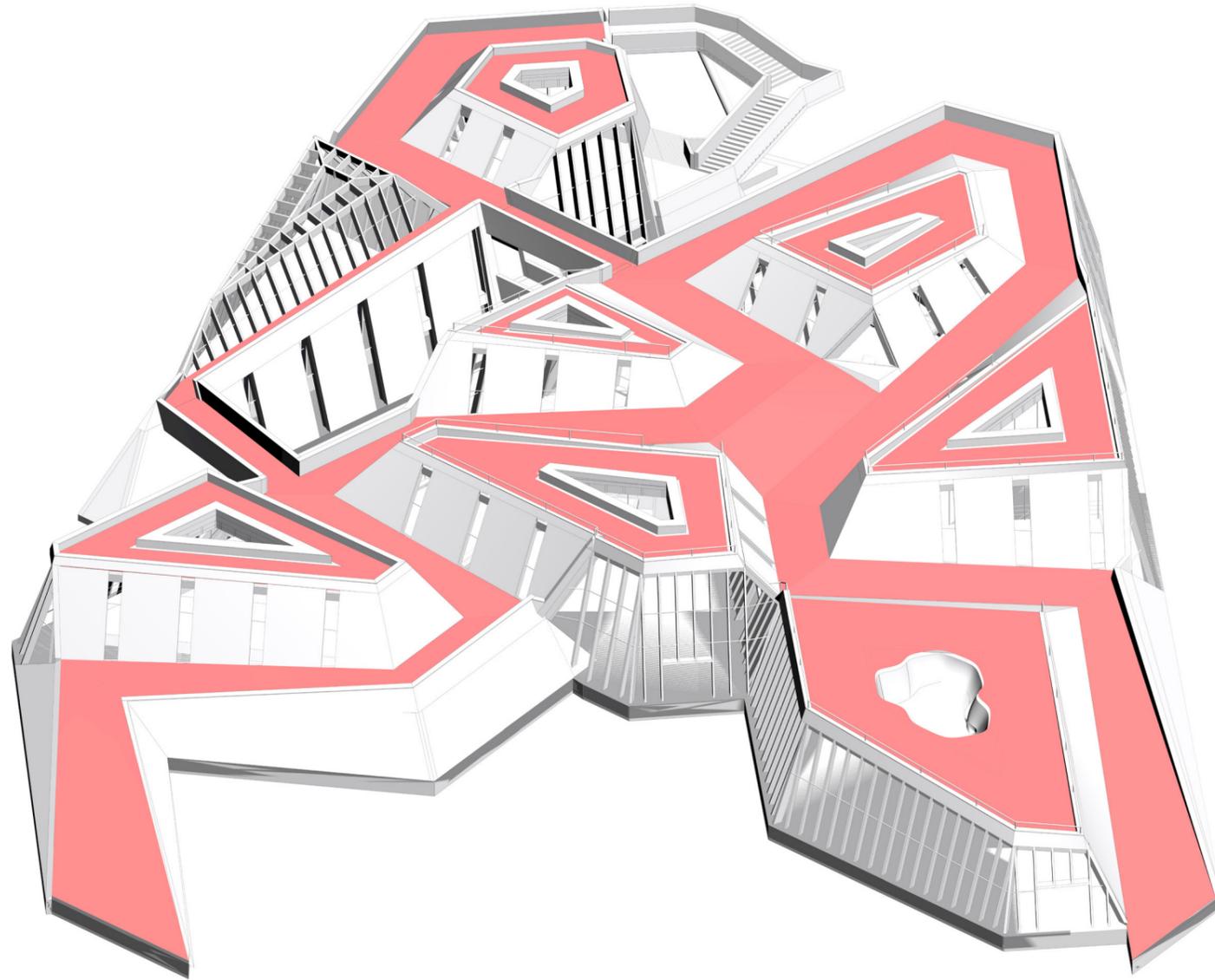
*STABILITY IS CREATED THROUGH HIGH REPETITION OF PORTALS IN DIFFERENT DIRECTIONS, COMBINED WITH STEEL HORIZONTAL PIPES. THIS WAY CROSSES COULD BE AVOIDED*

# STRUCTURAL CONCEPT



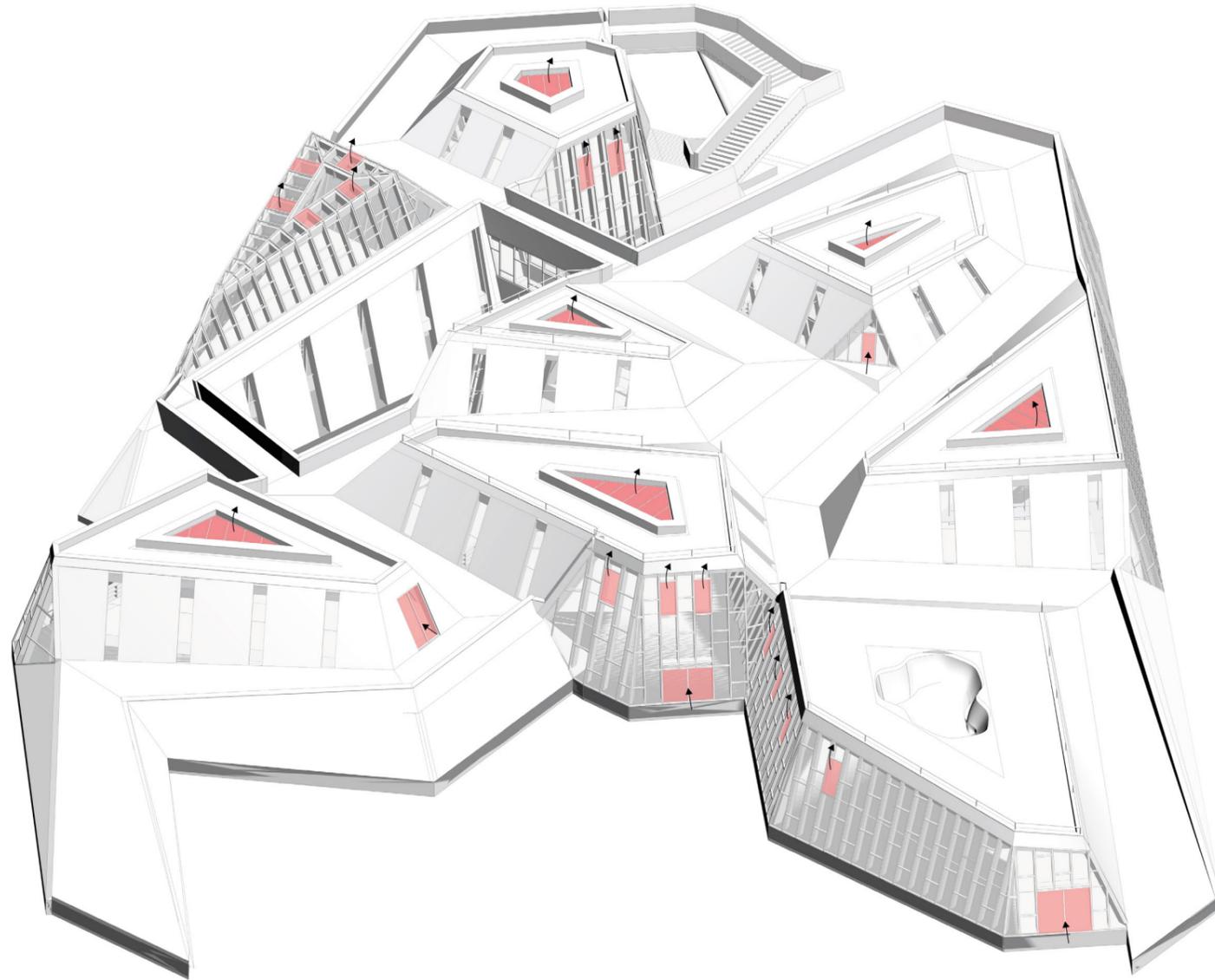
*CONNECTIONS BETWEEN BUILDINGS AND LEVELS IN WHICH STAIRS BECOME A DISTINCTIVE ELEMENT*

# STRUCTURAL CONCEPT



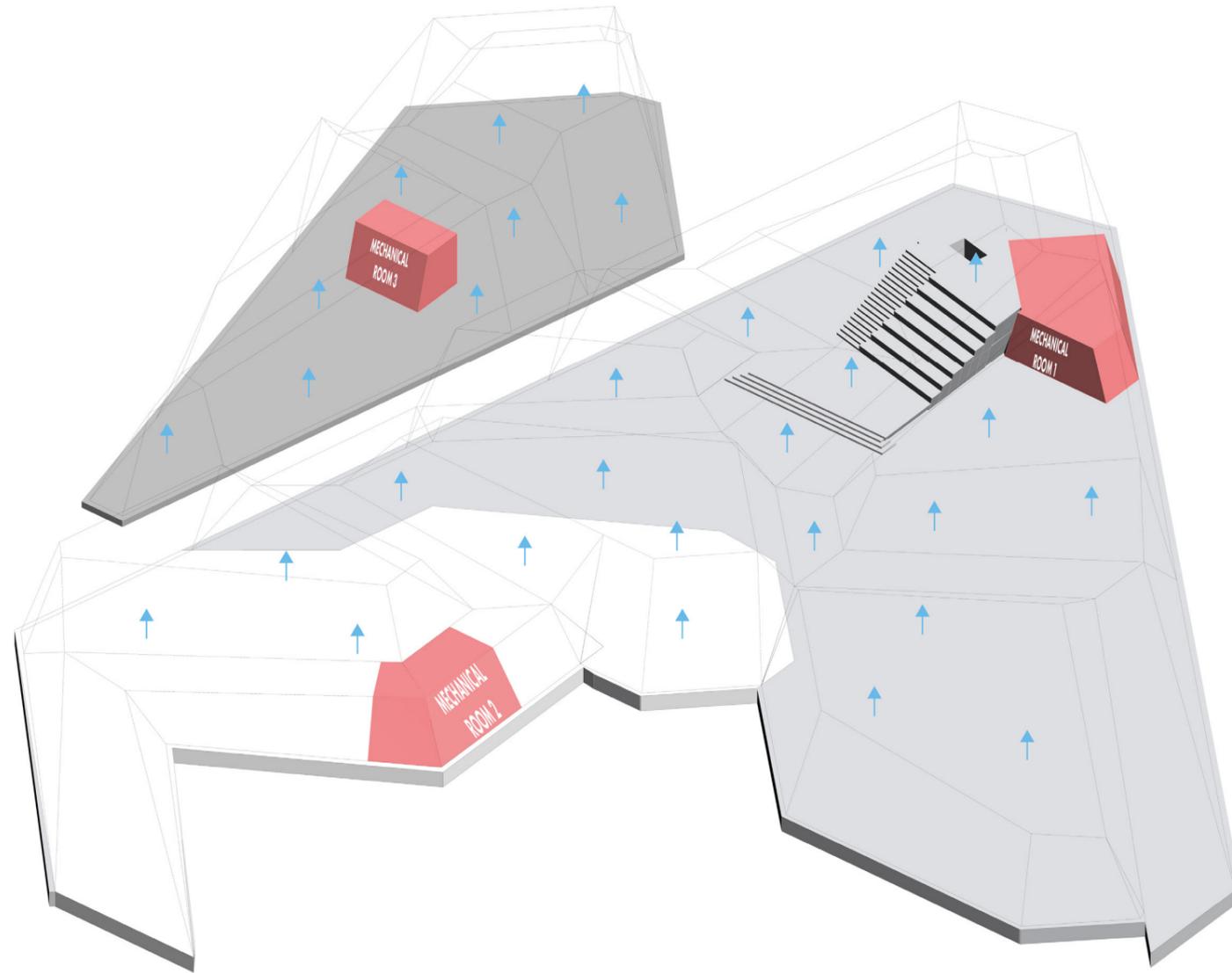
*CLT WALLS AND ROOF PROVIDE EXTRA STABILITY*

# CLIMATE CONCEPT



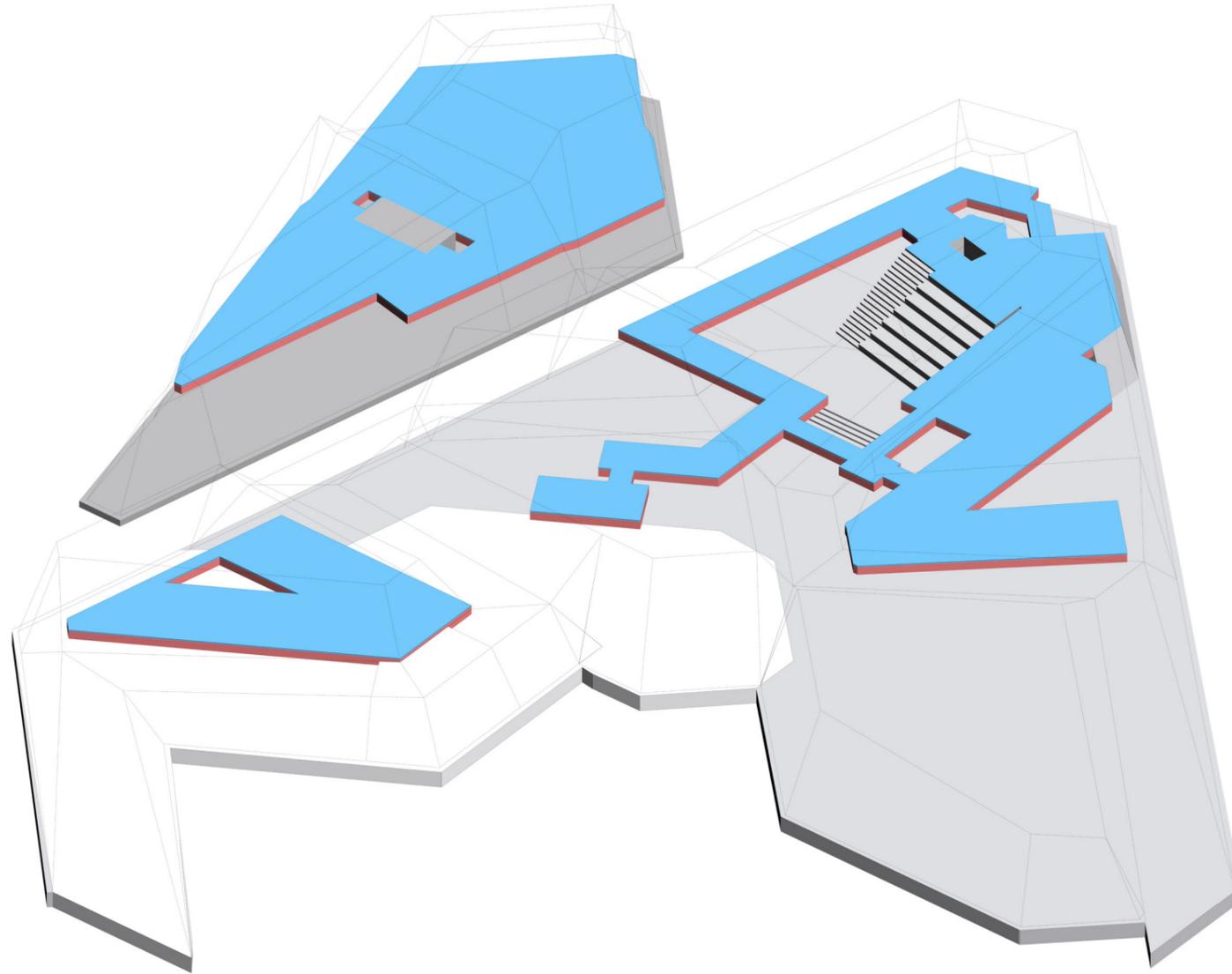
*SKYLIGHTS AND OPENINGS IN GLASS FACADES PROVIDE OPPURTUNITY FOR NATURAL VENTILATION*

# CLIMATE CONCEPT



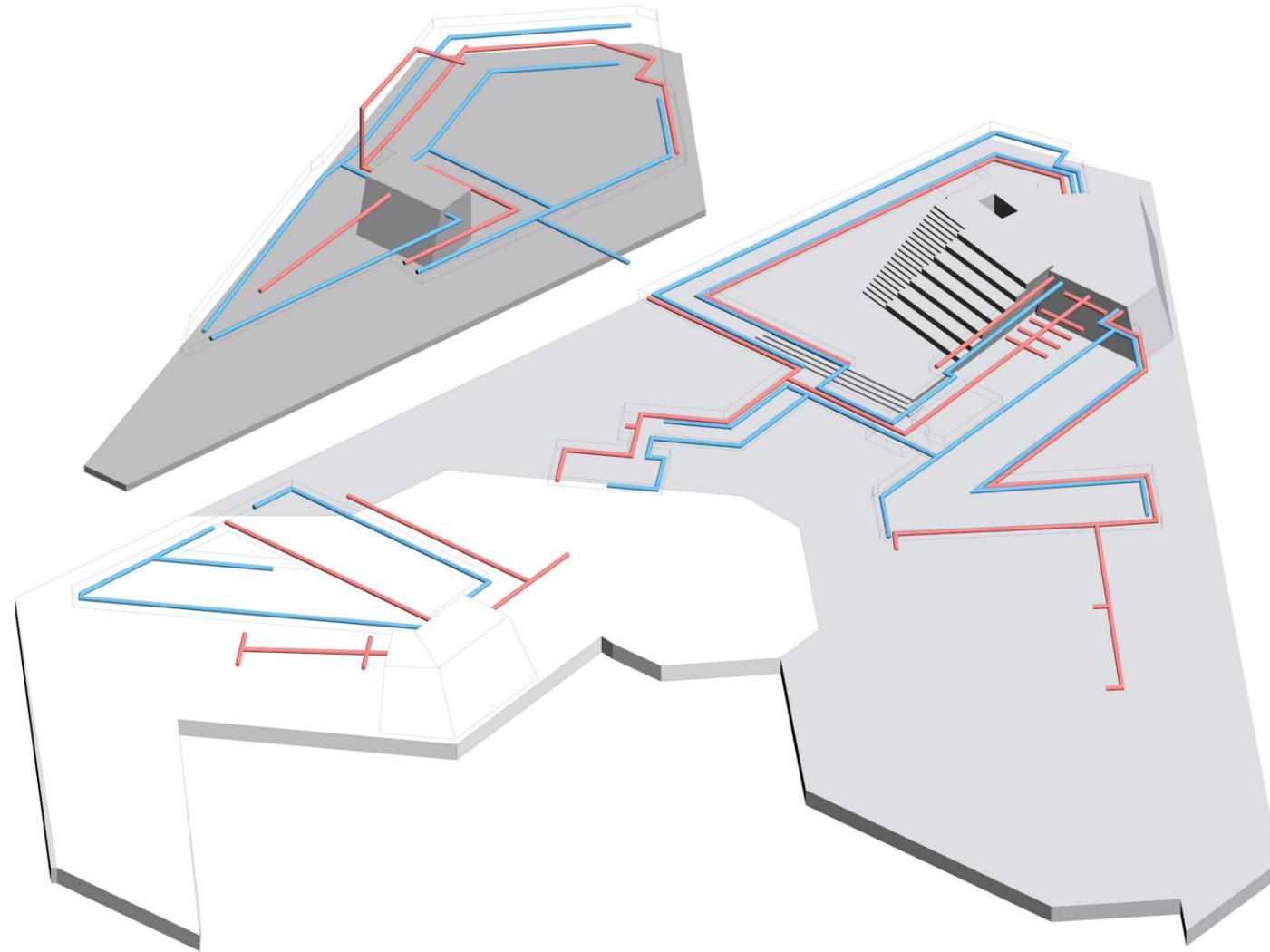
AIR SUPPLY FROM GROUND FLOOR TO MAXIMIZE STACK EFFECT WITH THE SKYLIGHTS. A GROUND BASED VENTILATION SYSTEM WILL BE USED, BACKED UP BY 3 TECHNICAL SPACES

# CLIMATE CONCEPT



*TO KEEP PORTAL STRUCTURE FREE FROM VISIBLE VENTILATION PIPES, THE HANGING FLOORS WILL FUNCTION AS AIR SUPPLY AND AIR EXHAUST*

# CLIMATE CONCEPT



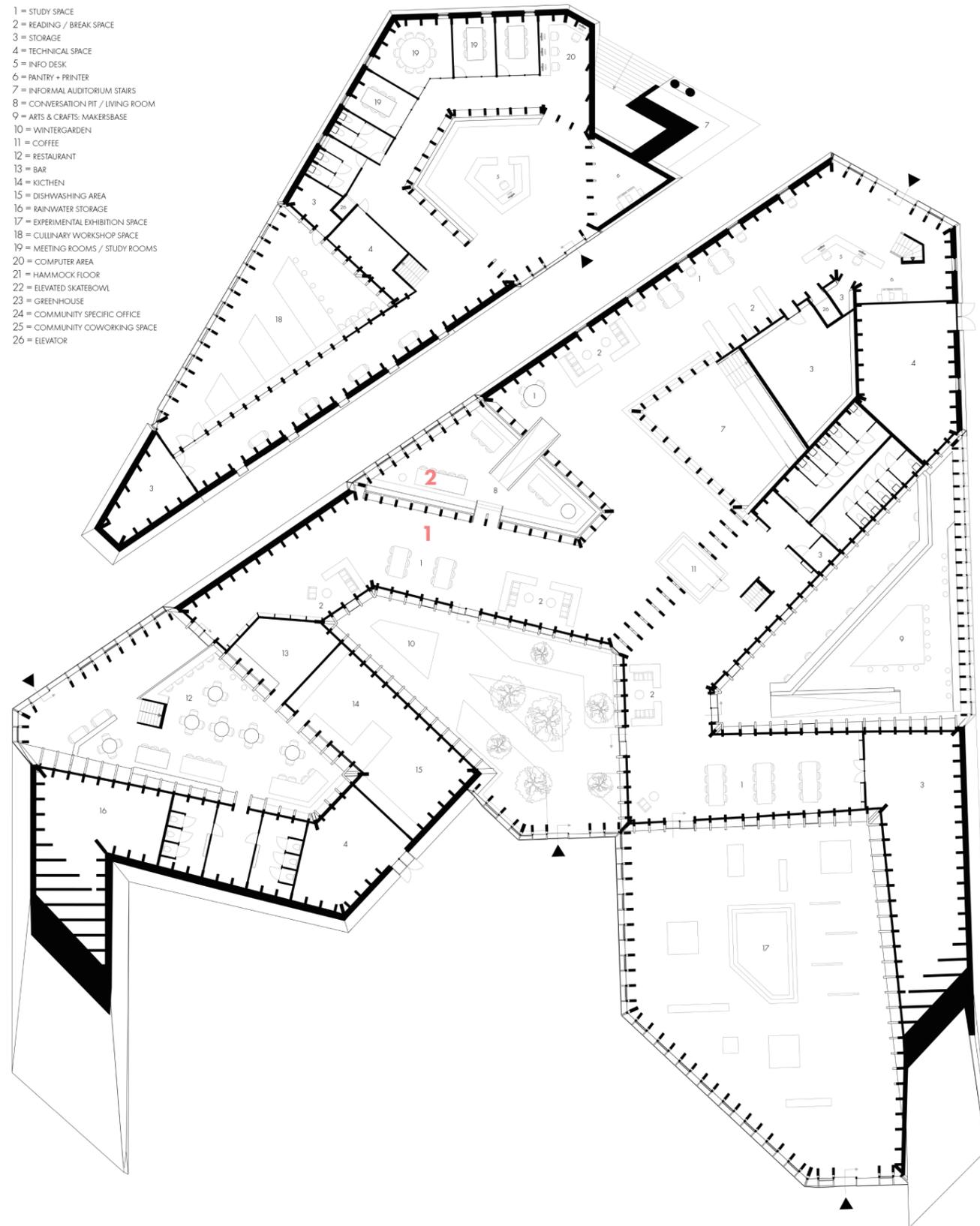
*VENTILATION PIPES DON'T CROSS SO THEY CAN STAY HIDDEN IN THE FLOORS*

# ARCHITECTURE AS HABITABLE URBAN LANDSCAPE



# GROUND FLOOR

- 1 = STUDY SPACE
- 2 = READING / BREAK SPACE
- 3 = STORAGE
- 4 = TECHNICAL SPACE
- 5 = INFO DESK
- 6 = PANTRY + PRINTER
- 7 = INFORMAL AUDITORIUM STAIRS
- 8 = CONVERSATION PIT / LIVING ROOM
- 9 = ARTS & CRAFTS: MAKERSBASE
- 10 = WINTERGARDEN
- 11 = COFFEE
- 12 = RESTAURANT
- 13 = BAR
- 14 = KITCHEN
- 15 = DISHWASHING AREA
- 16 = RAINWATER STORAGE
- 17 = EXPERIMENTAL EXHIBITION SPACE
- 18 = CULINARY WORKSHOP SPACE
- 19 = MEETING ROOMS / STUDY ROOMS
- 20 = COMPUTER AREA
- 21 = HAMMOCK FLOOR
- 22 = ELEVATED SKATEBOWL
- 23 = GREENHOUSE
- 24 = COMMUNITY SPECIFIC OFFICE
- 25 = COMMUNITY COWORKING SPACE
- 26 = ELEVATOR

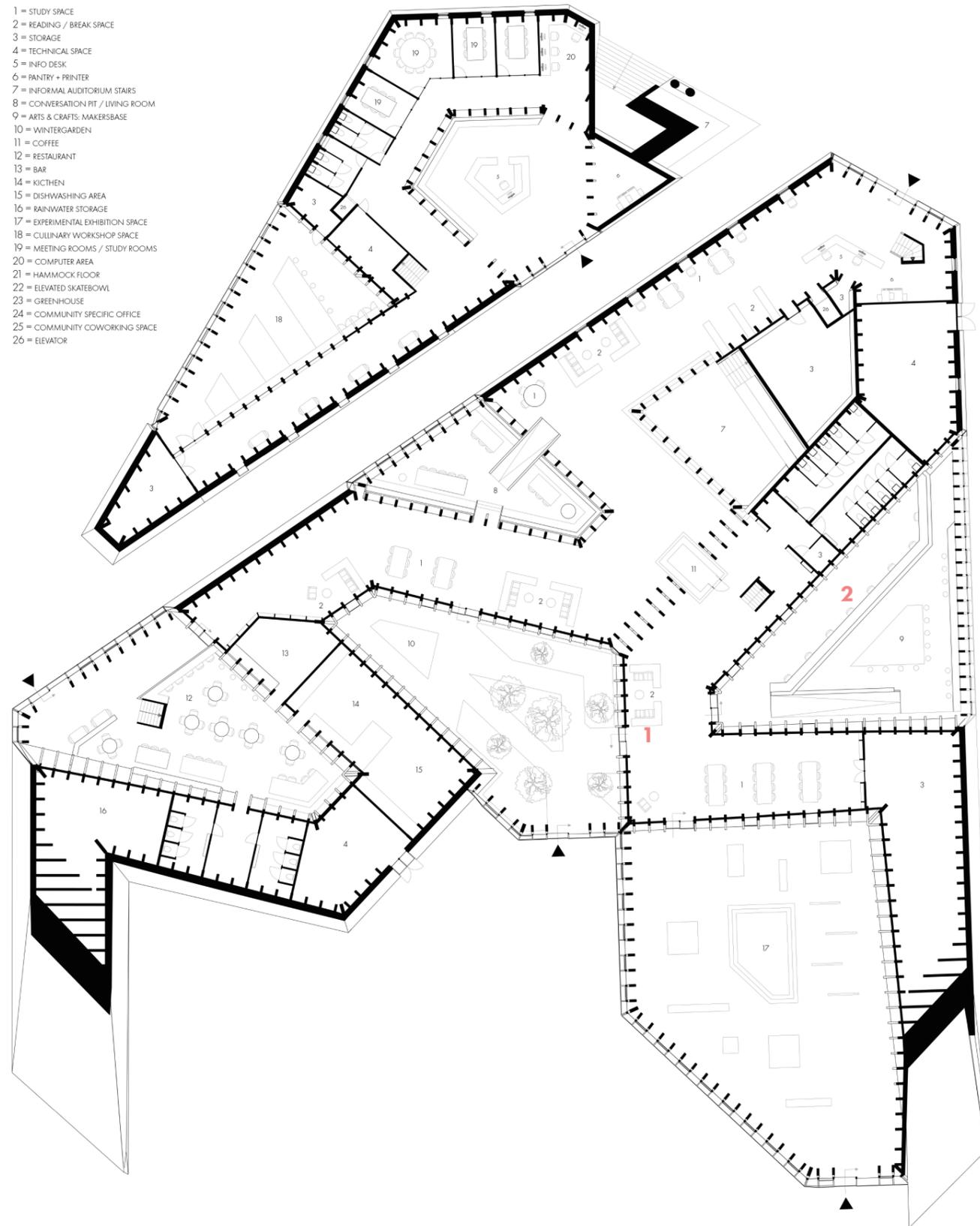


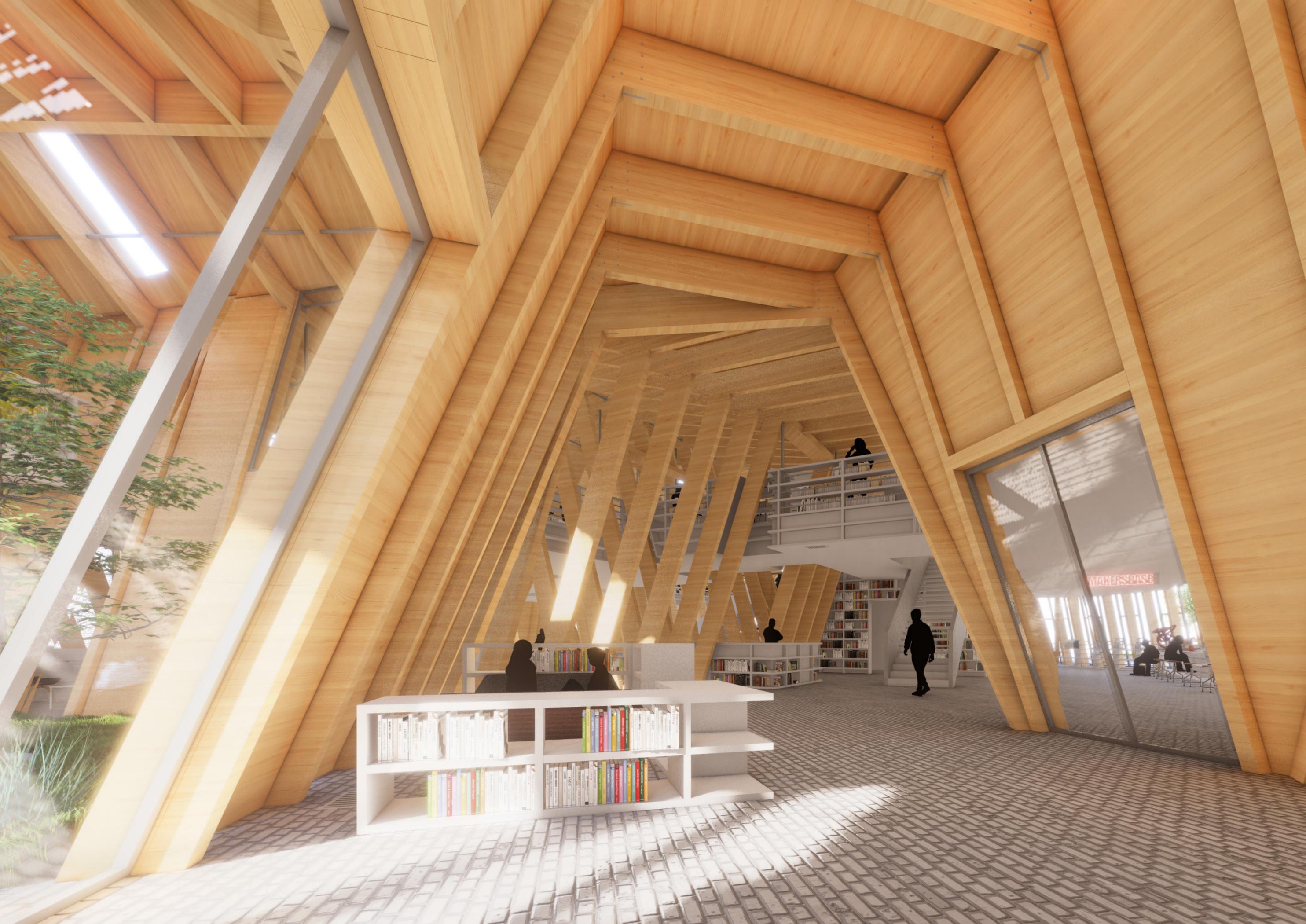




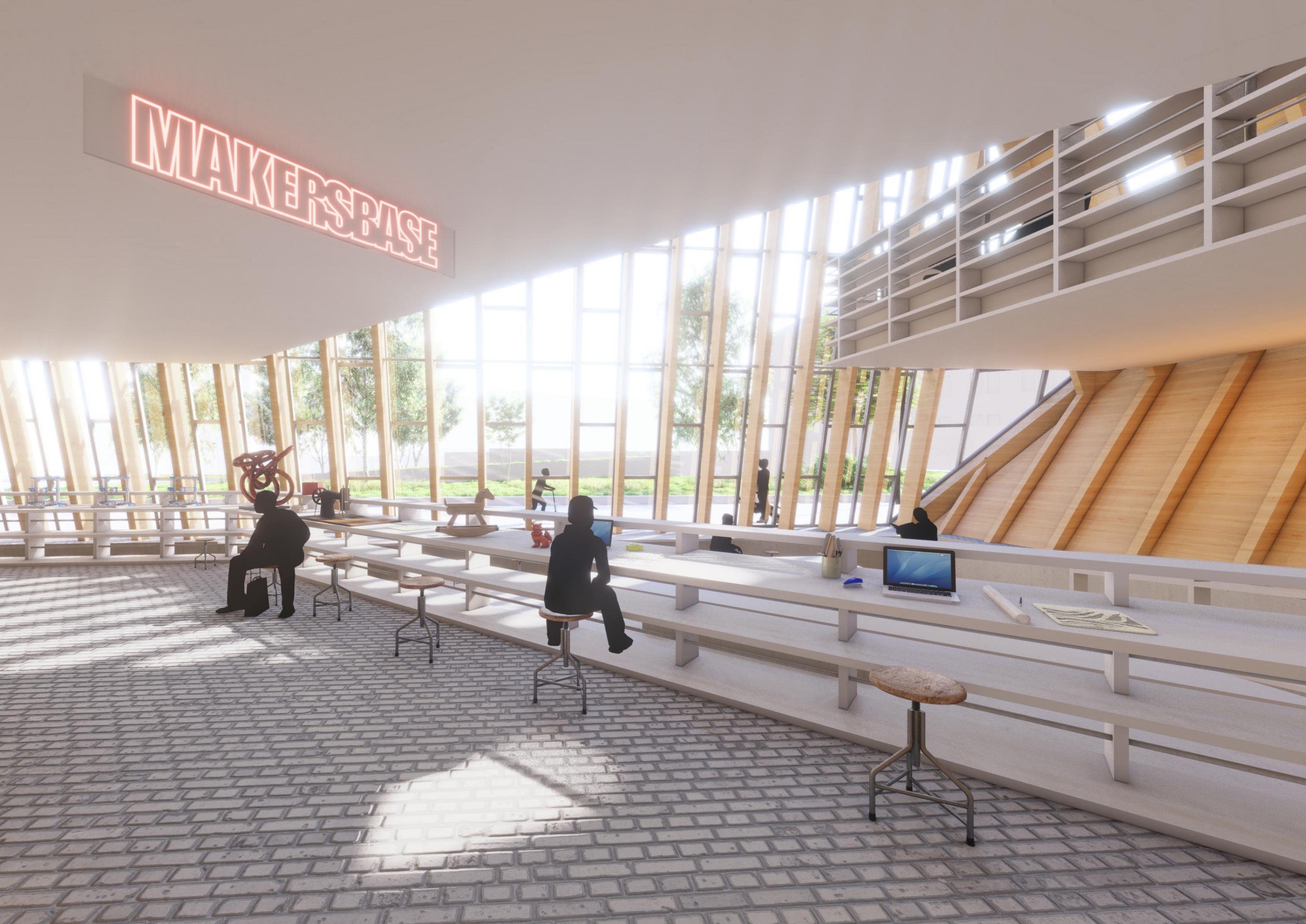
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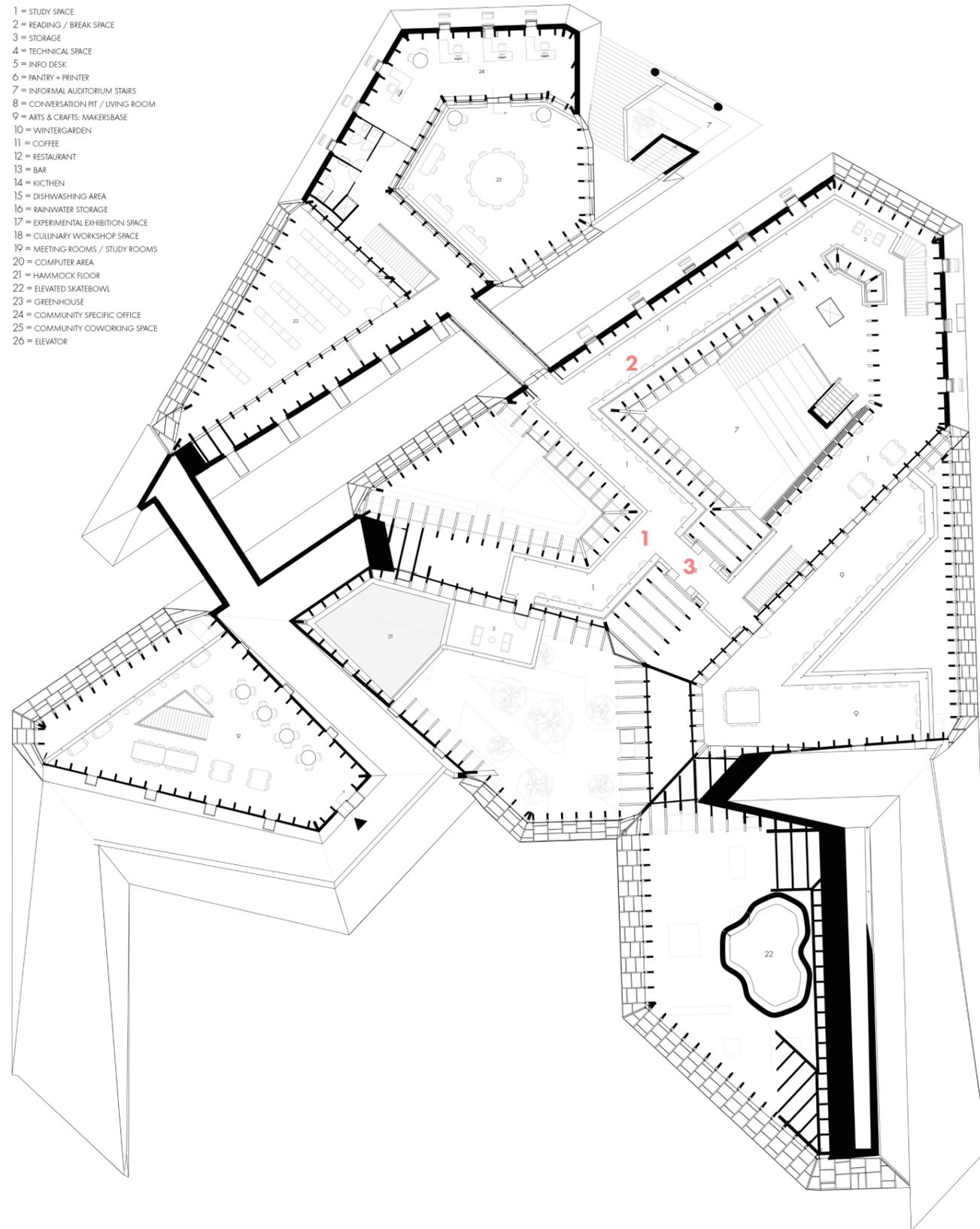


MAKERSPACE



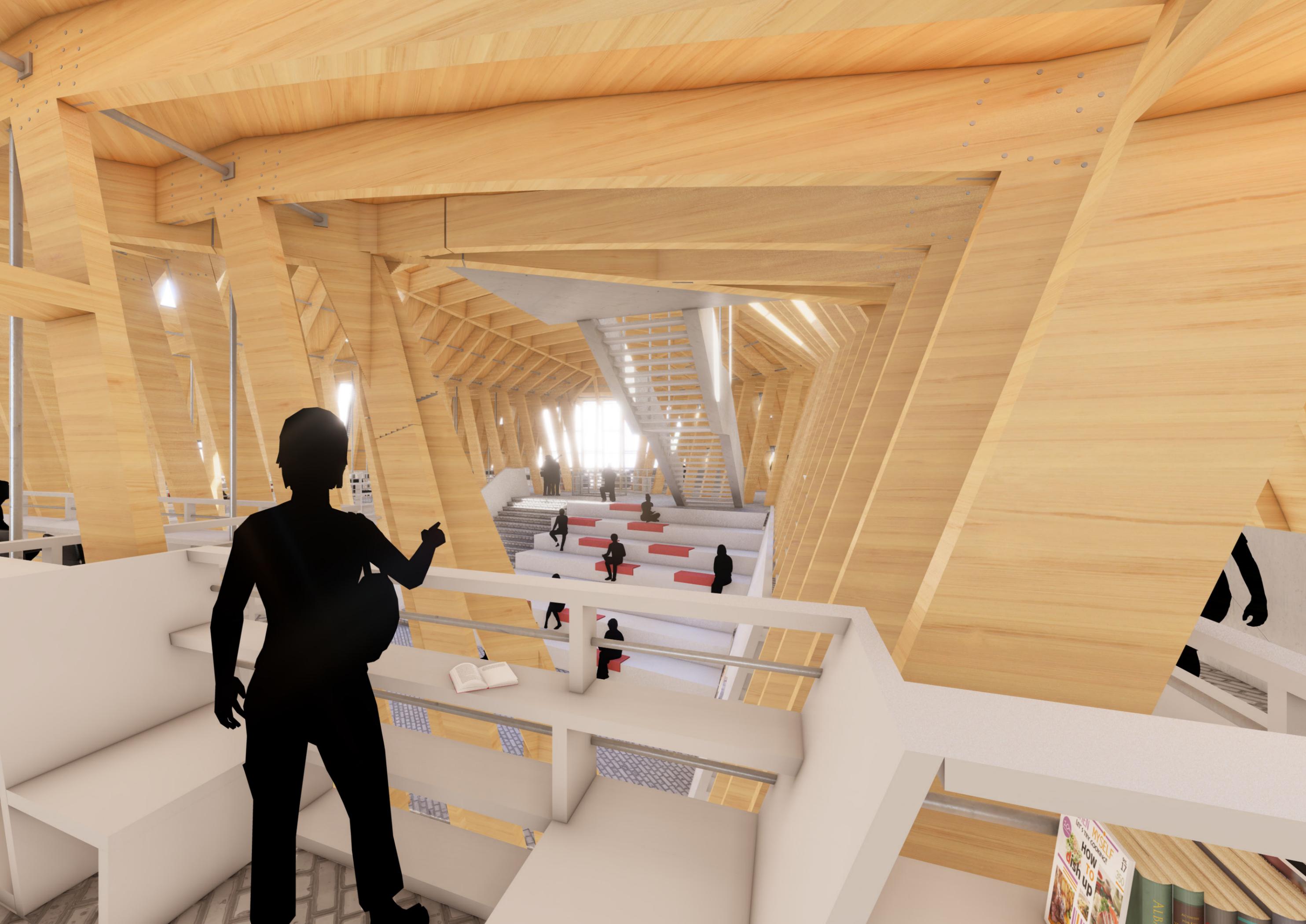
# FIRST FLOOR

- 1 = STUDY SPACE
- 2 = READING / BREAK SPACE
- 3 = STORAGE
- 4 = TECHNICAL SPACE
- 5 = INFO DESK
- 6 = PANTRY + PRINTER
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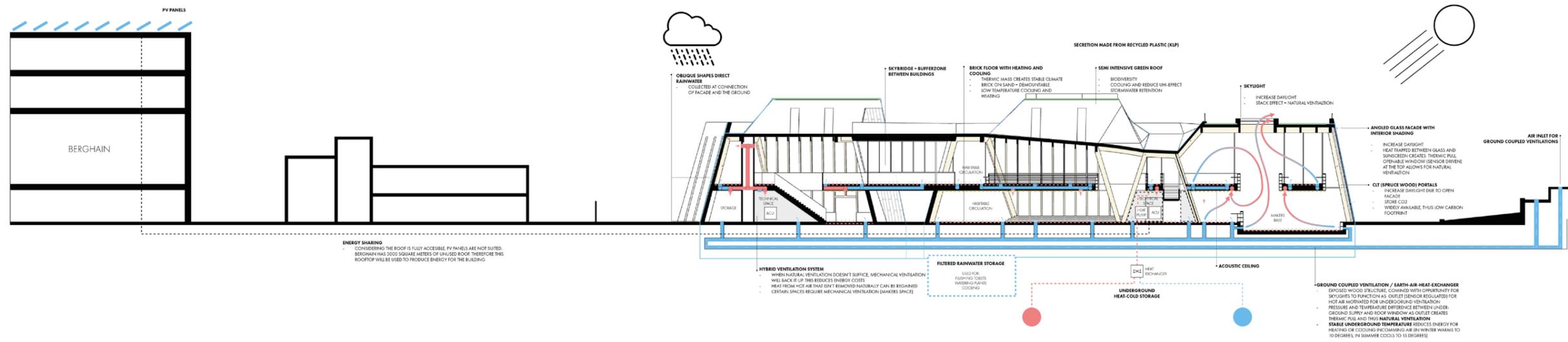




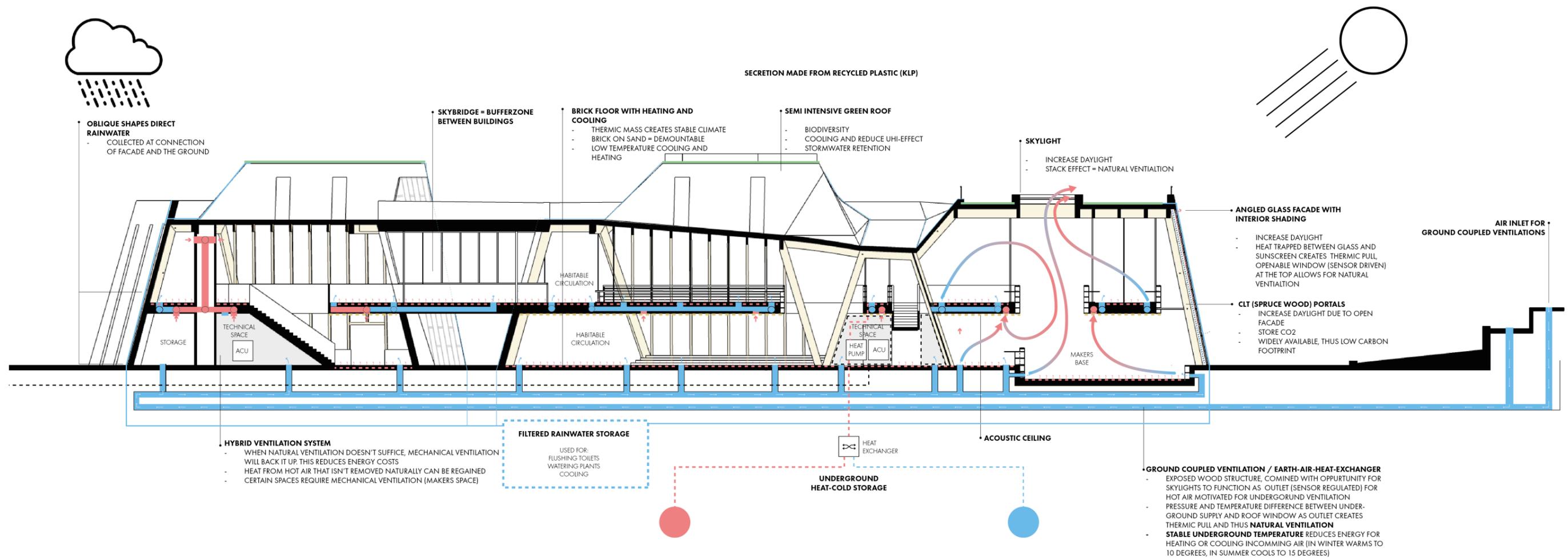




# CLIMATE SECTION



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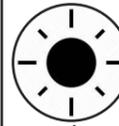
**STACK EFFECT PROVIDES NATURAL VENTILATION THROUGH SKYLIGHT AND GROUND BASED VENTILATION**



**GREEN ROOF:**

- BIODIVERSITY THROUGH DIFFERENT BIOTOPES
- REDUCES UHI AND INSULATES
- STORMWATER RETENTION

**VENTILATION PIPES HIDDEN IN FLOORS FOR HYBRID VENTILATION**



**DAYLIGHT PENETRATION**



**OPENABLE WINDOW + INTERIOR SHADING**

CREATES CHIMNEY EFFECT  
STACK VENTILATION

**BRICK RESISTANT AGAINST ACTIVE USE AND THERMIC MASS**



**WASTEBASED BRICKS FROM STONECYCLING:**

- BRICKS PRODUCED FROM 60% WASTE
- 91 KG/M<sup>2</sup> UPCYCLE
- CO<sub>2</sub> COMPENSATED PRODUCTION

**964145 KG WASTE UPCYCLED**



**BRICK BIRDHOUSE IN MASONRY**



**RAINWATER COLLECTION**



**FLOOR HEATING & COOLING**

- LOW TEMPERATURE
- COMBINED WITH HEAT-COLD STORAGE



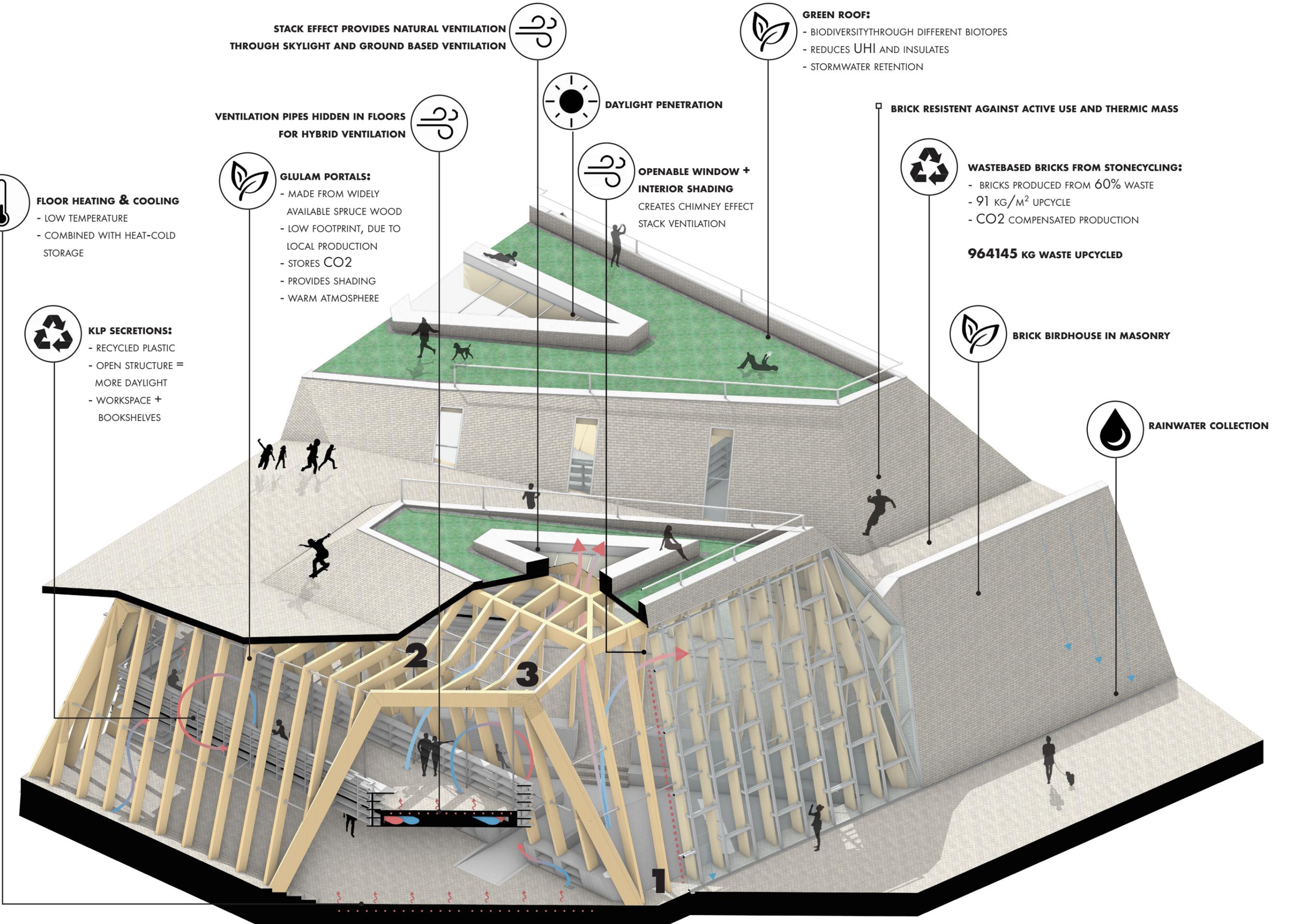
**KLP SECRECTIONS:**

- RECYCLED PLASTIC
- OPEN STRUCTURE = MORE DAYLIGHT
- WORKSPACE + BOOKSHELVES

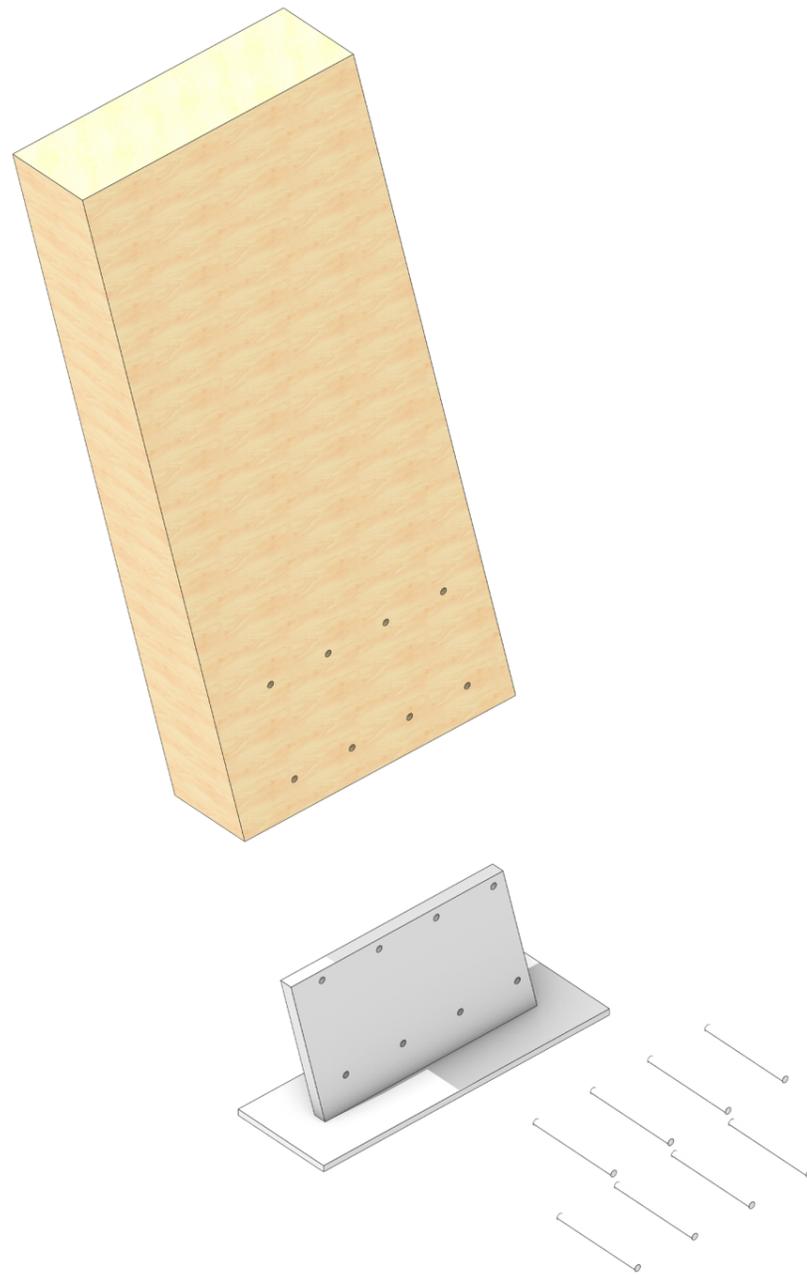


**GLULAM PORTALS:**

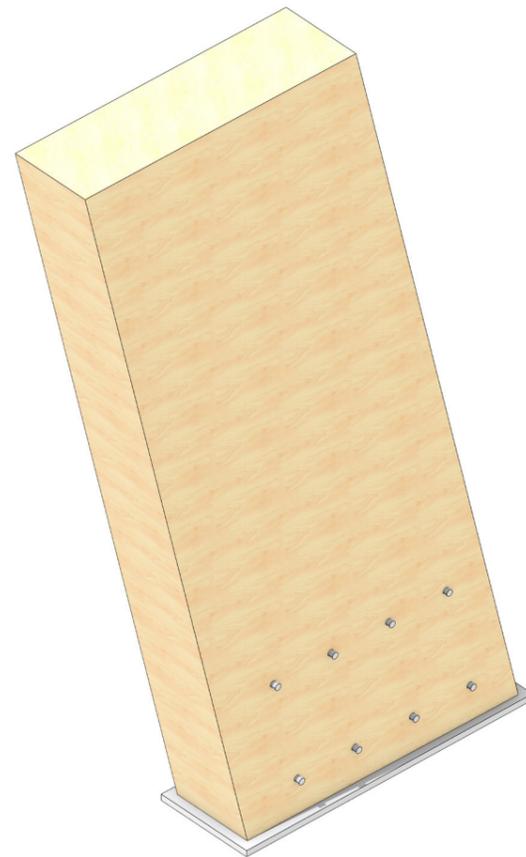
- MADE FROM WIDELY AVAILABLE SPRUCE WOOD
- LOW FOOTPRINT, DUE TO LOCAL PRODUCTION
- STORES CO<sub>2</sub>
- PROVIDES SHADING
- WARM ATMOSPHERE



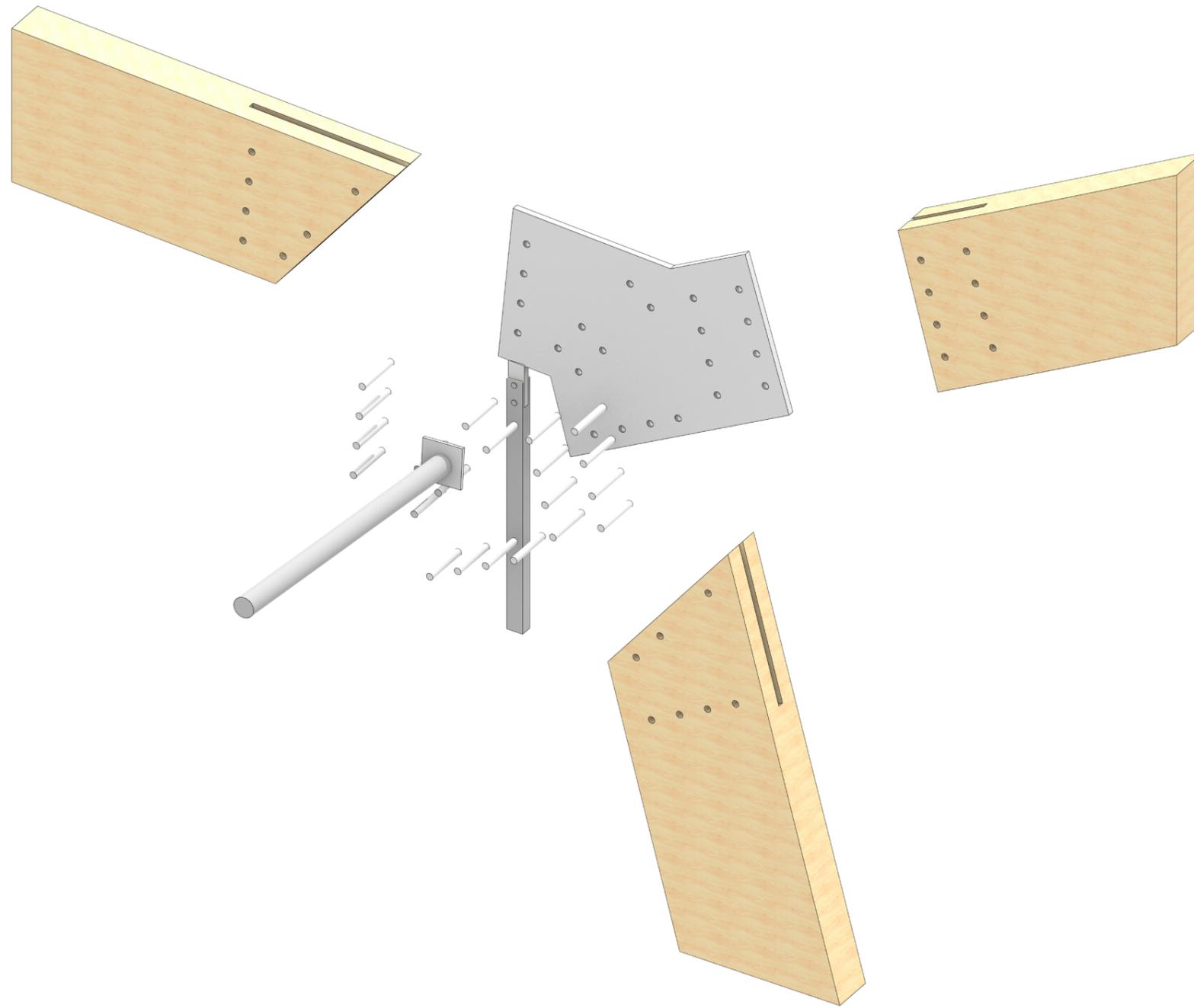
# STRUCTURAL JOINT 1: SINGLE CUT, SINGLE JOINT



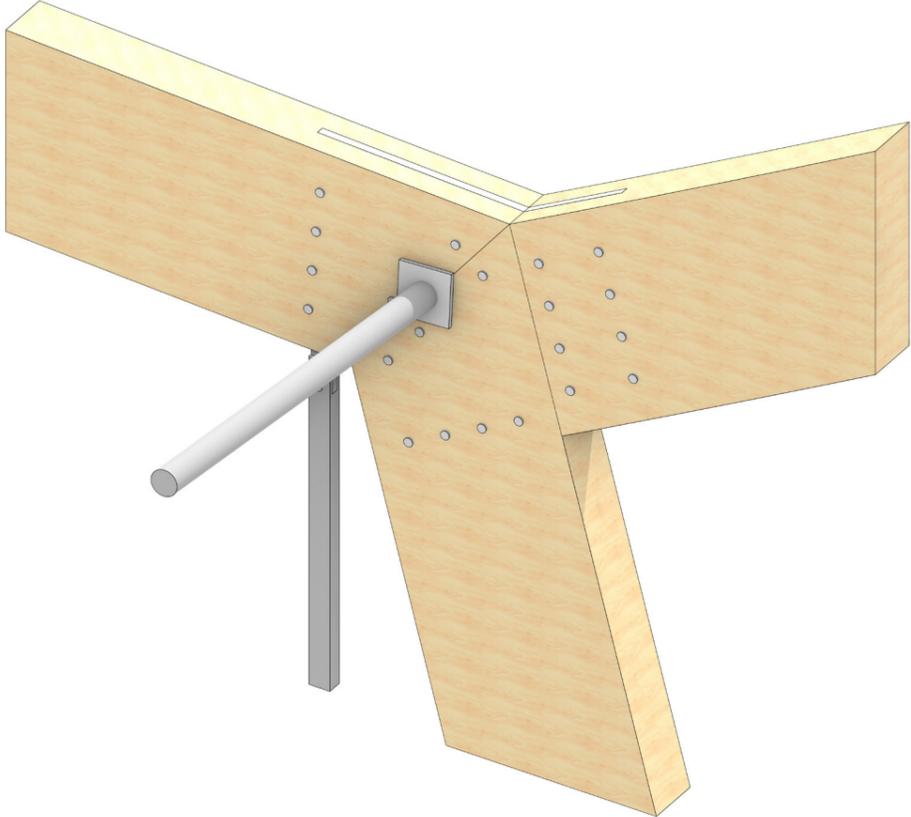
# STRUCTURAL JOINT 1: SINGLE JOINT



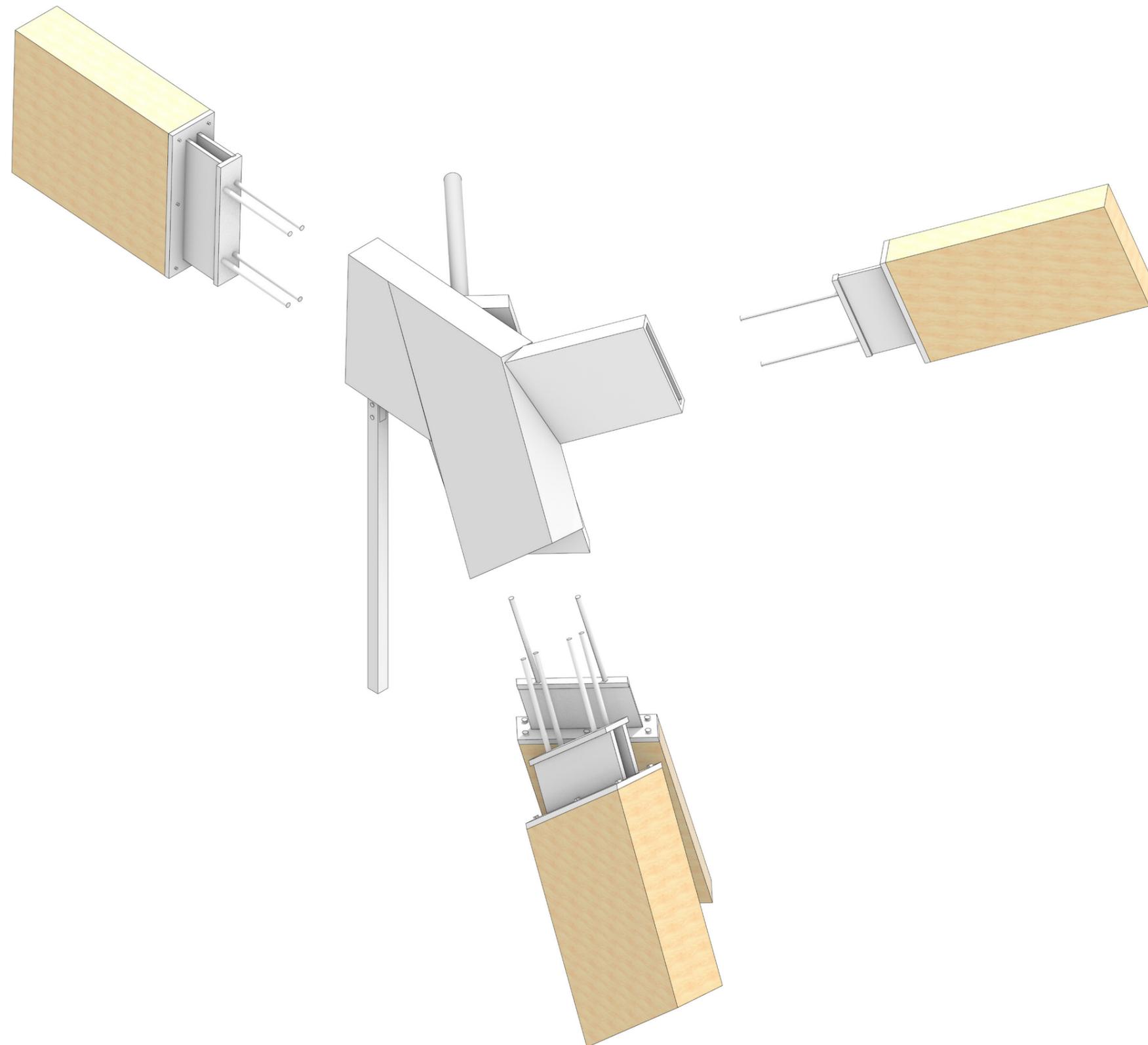
# STRUCTURAL JOINT 2: DOUBLE JOINT



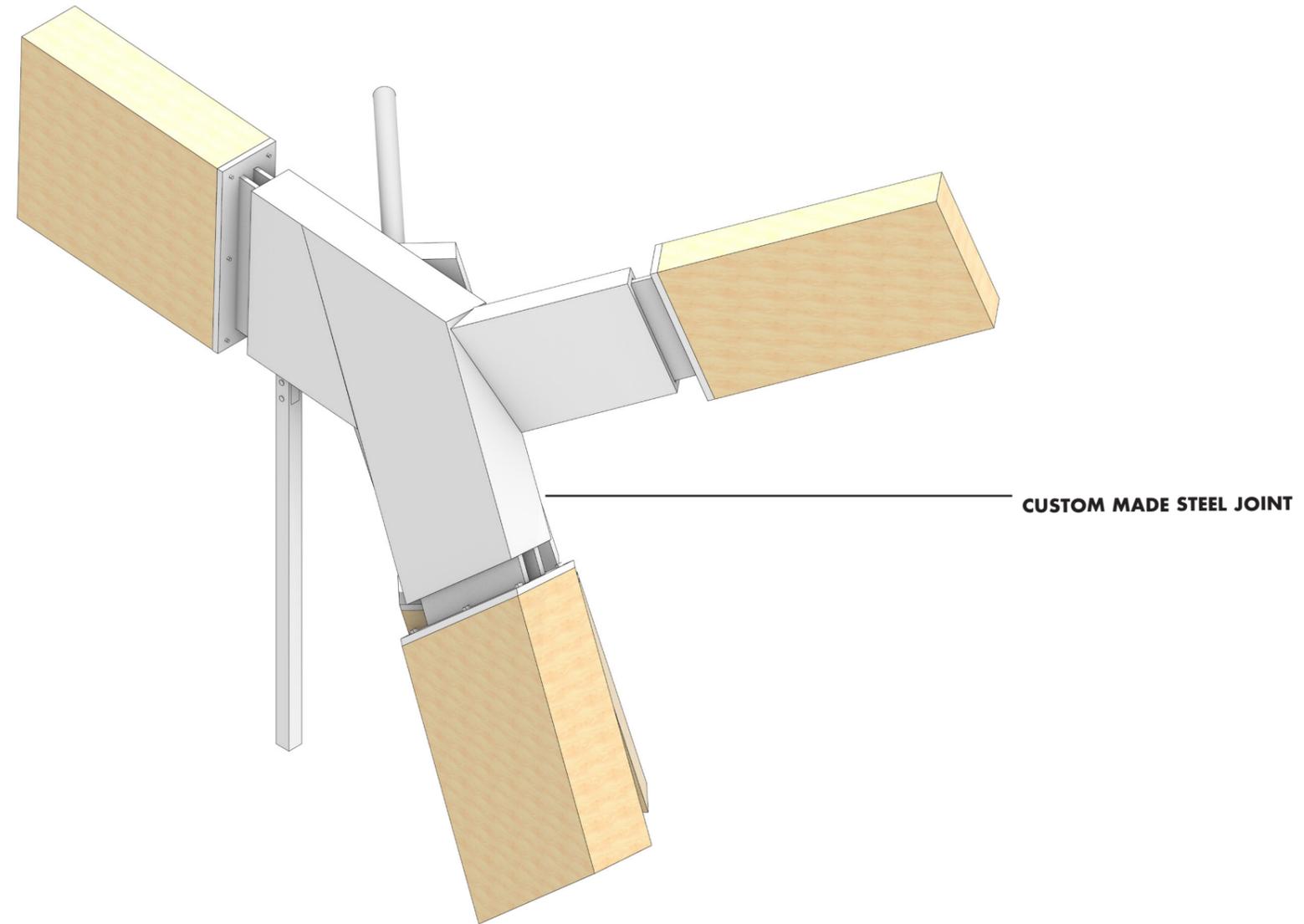
# STRUCTURAL JOINT 2



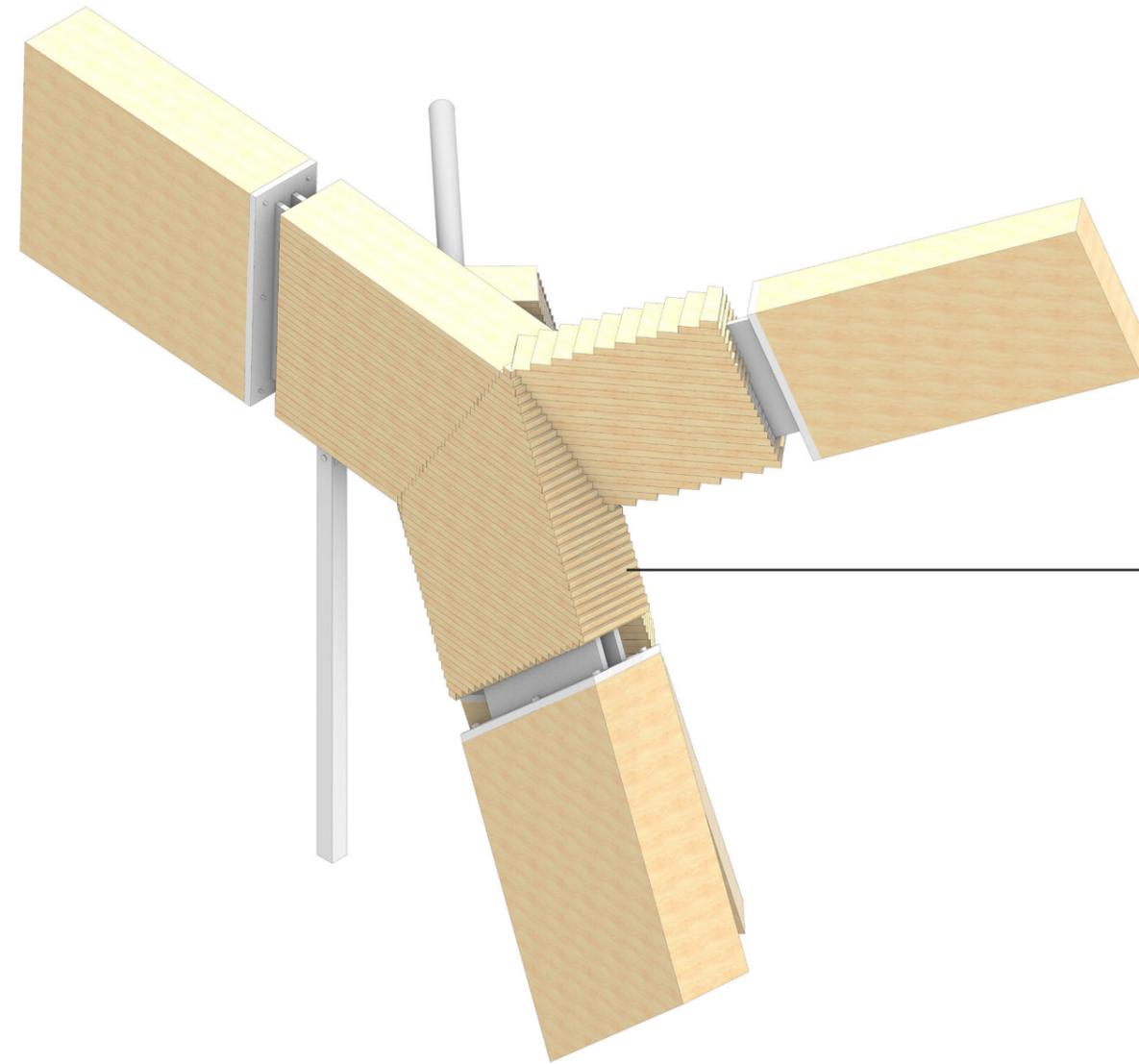
# STRUCTURAL JOINT 3: COMPLEX GEOMETRY JOINT



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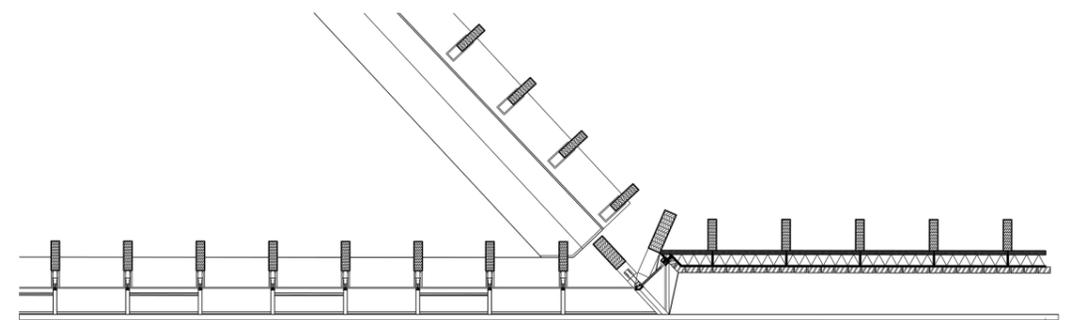
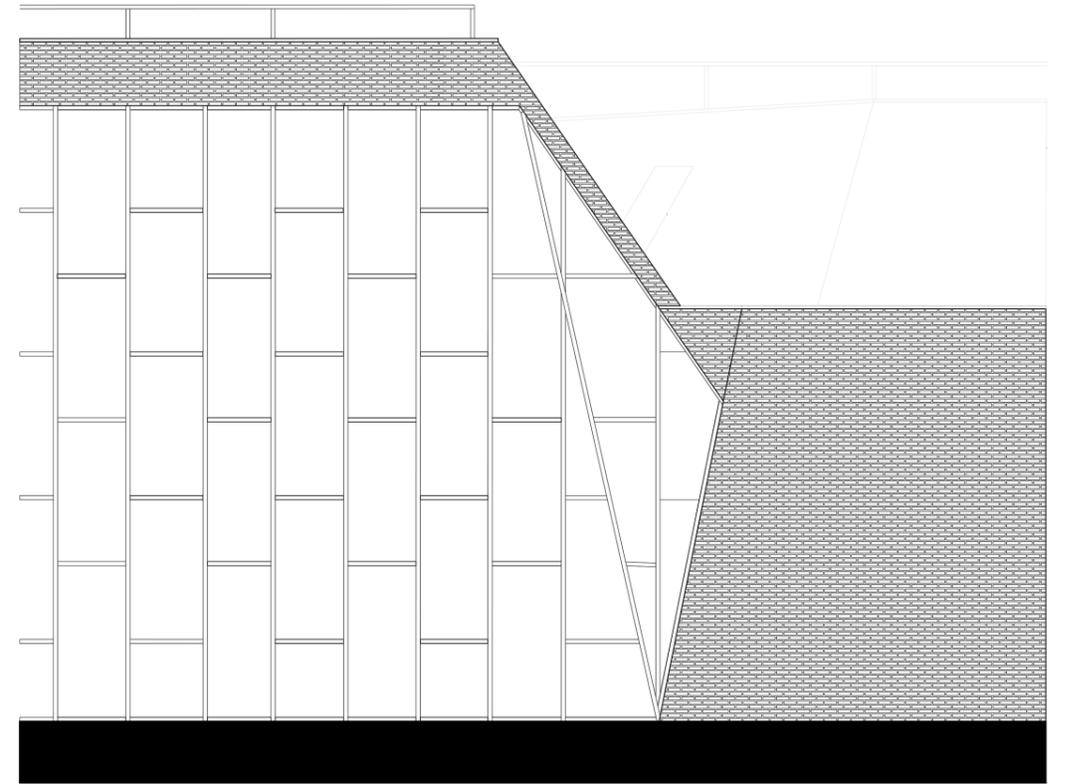
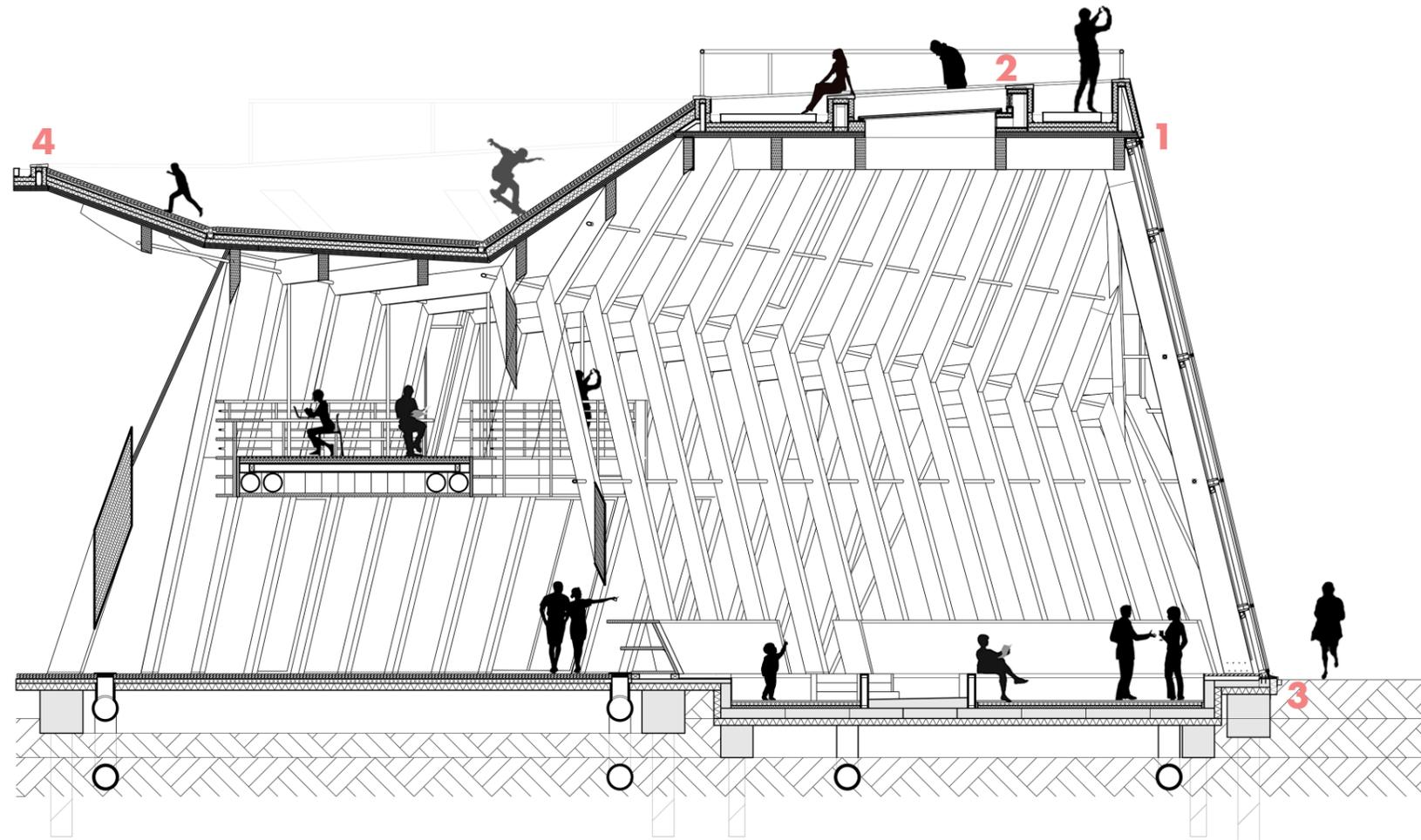


# STRUCTURAL JOINT 3: COMPLEX GEOMETRY JOINT

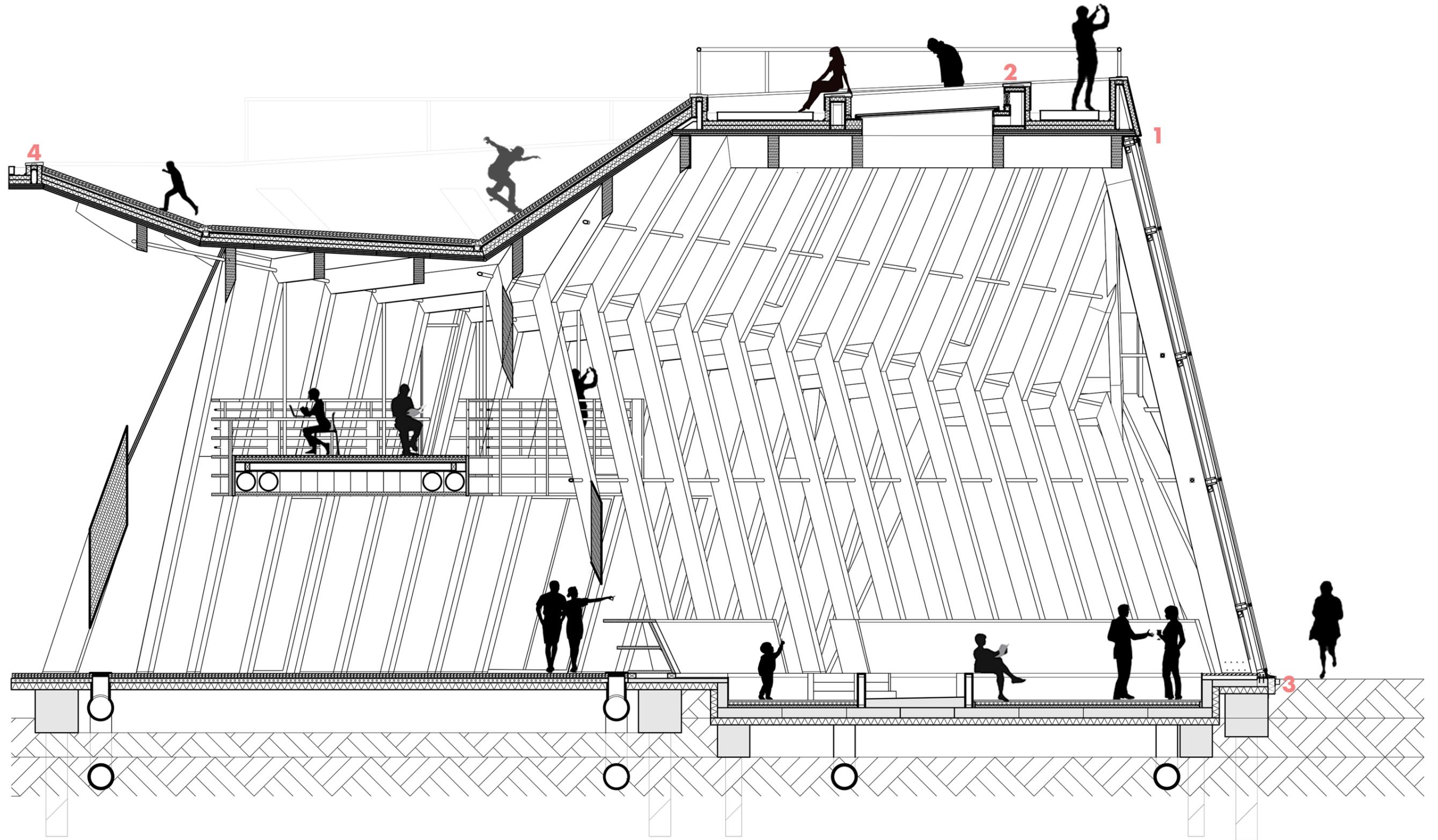


CUSTOM MADE CNC MILLED WOOD COVER FROM  
SEPERATE PANELS STAMPED TOGETHER

# FRAGMENT FACADE 1:20

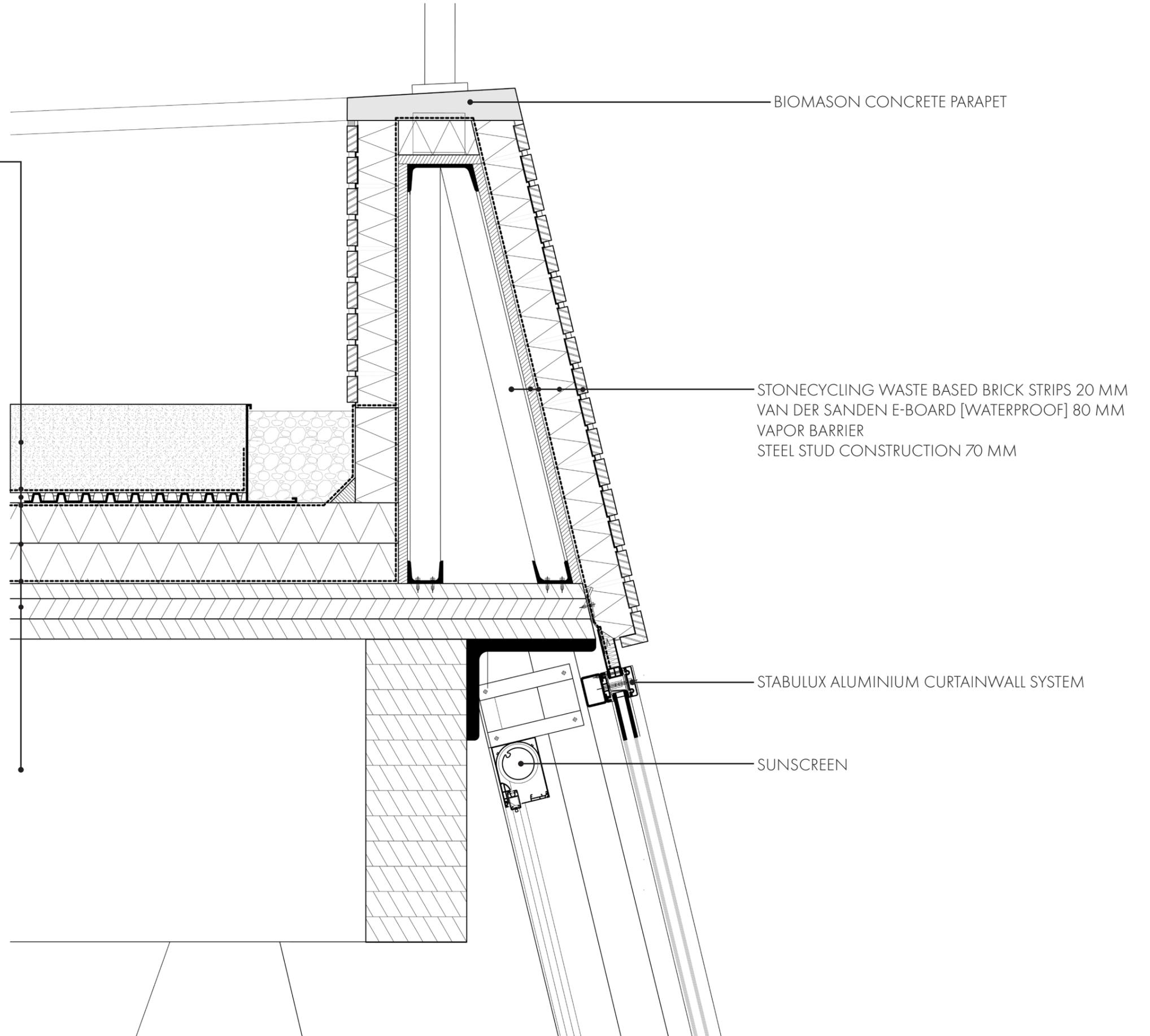


# SECTION 1:20

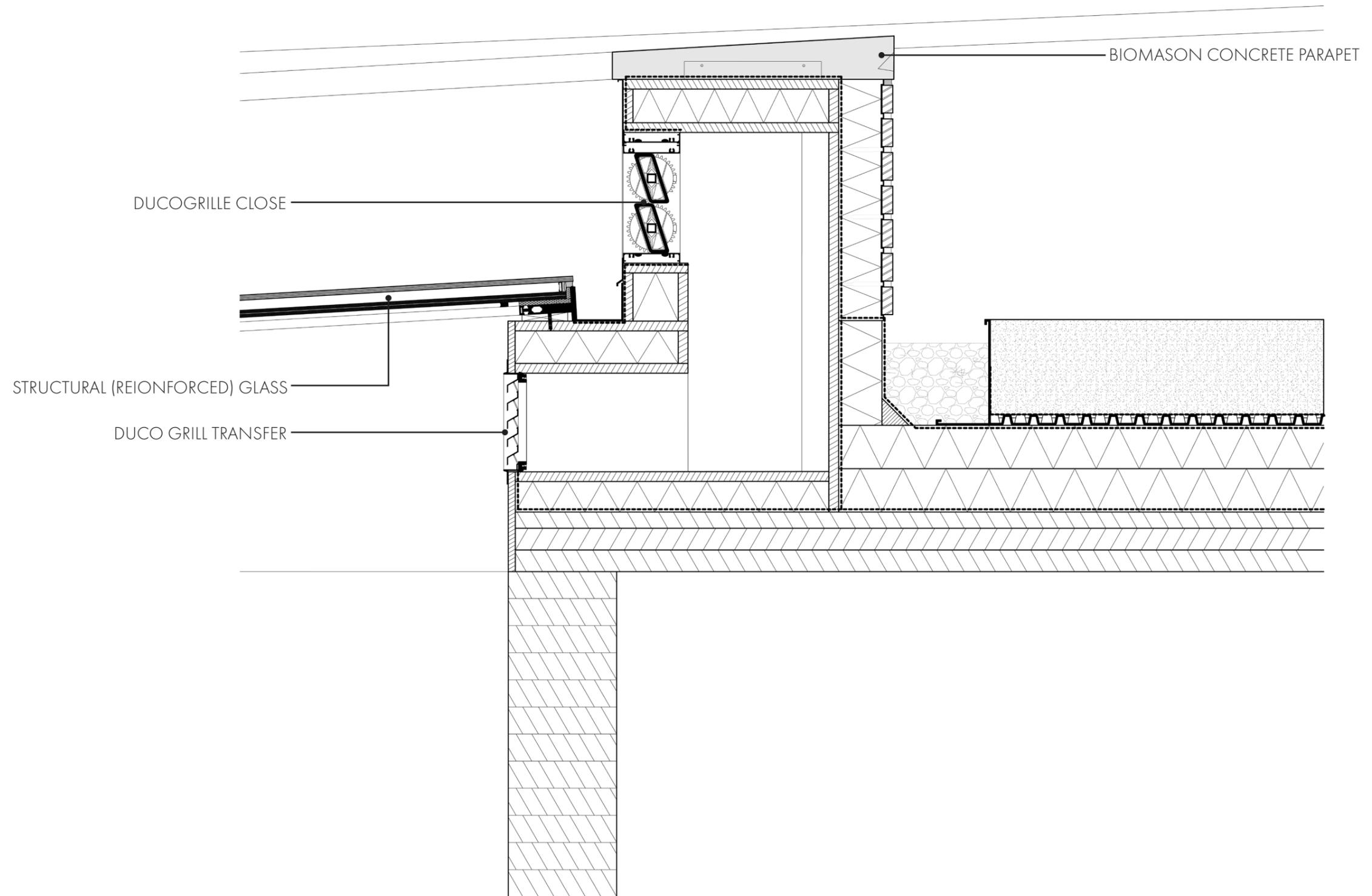


# DETAIL 1

SUBSTRATE 175 MM  
ROOT BARRIER  
DRAINAGE LAYER 20 MM  
WATER RETENTION LAYER  
PIR ISOLATION 160 MM  
VAPOR BARRIER  
CLT PLATE 90 MM  
GLULAM BEAM 600 MM



# DETAIL 2

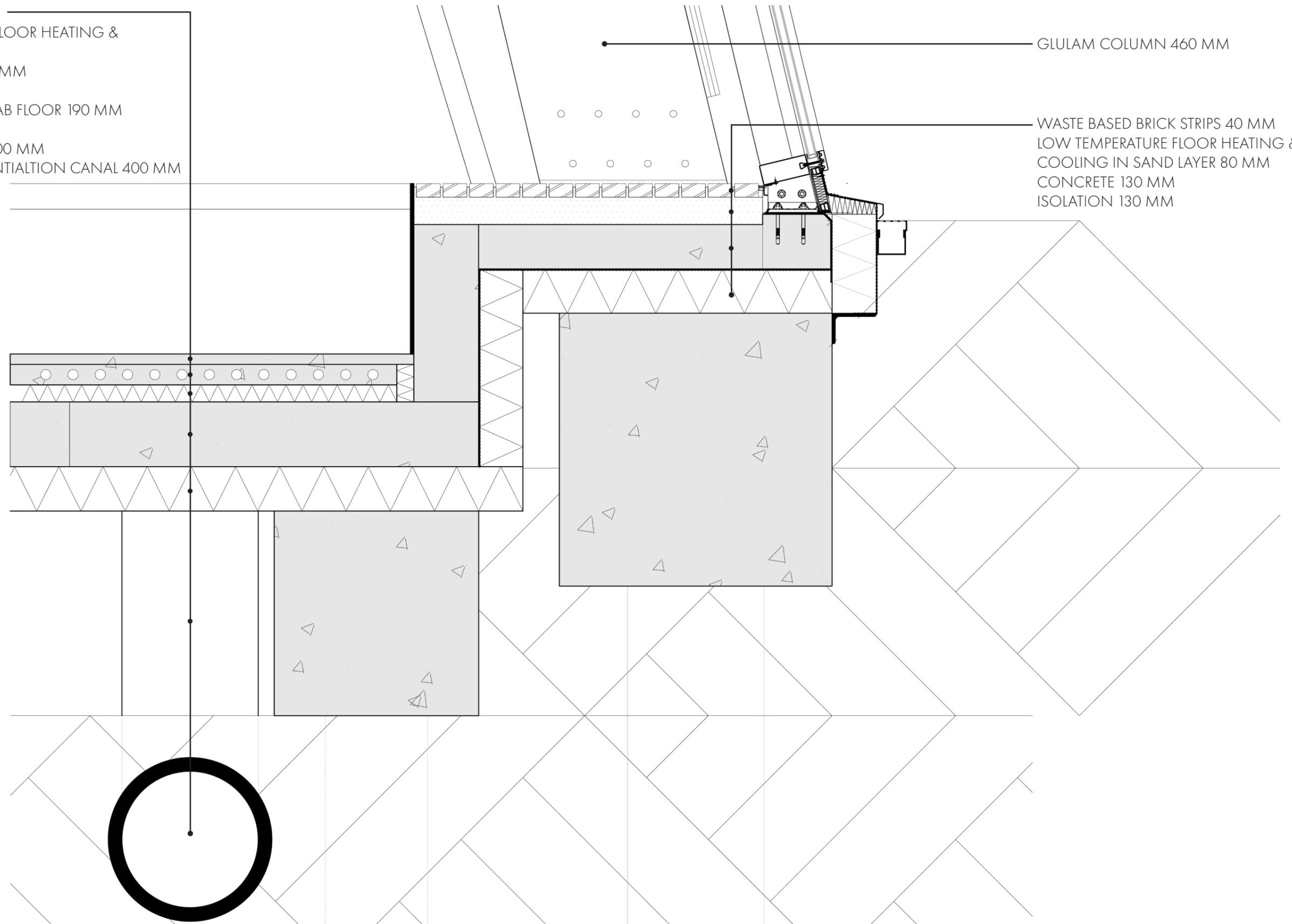


# DETAIL 3

CONCRETE 30 MM  
LOW TEMPERATURE FLOOR HEATING &  
COOLING 60 MM  
DRAINAGE LAYER 20 MM  
ISOLATION 50 MM  
CONCRETE WIDE SLAB FLOOR 190 MM  
ISOLATION 130 MM  
CRAWLING SPACE 600 MM  
GROUND BASED VENTILATION CANAL 400 MM

GLULAM COLUMN 460 MM

WASTE BASED BRICK STRIPS 40 MM  
LOW TEMPERATURE FLOOR HEATING &  
COOLING IN SAND LAYER 80 MM  
CONCRETE 130 MM  
ISOLATION 130 MM



# DETAIL 4

