

THE OBLIQUE & THE APPROPRIATION

ARCHITECTURE AS CATALYST FOR URBAN ACTIVITIES

WHAT IS A PUBLIC SPACE?

HEARTBEAT OF A CITY

ACCESSIBLE



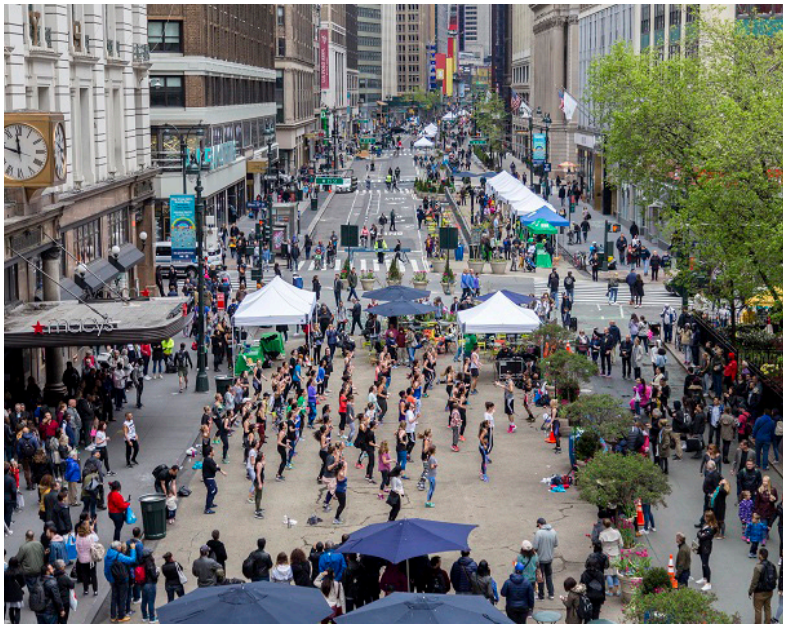
SOCIAL COHESION

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



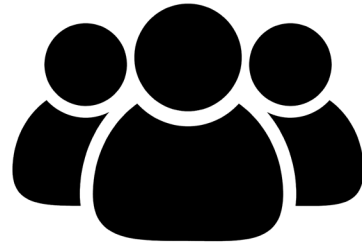
WHAT ARCHITECTURAL SHAPES INSPIRE THESE ACTIVITIES?

PIER15



WHAT ARCHITECTURAL SHAPES INSPIRE THESE ACTIVITIES?

POTENTIALS OF STREET CULTURE



**STRONG COMMUNITIES AND
SENSE OF BELONGING**



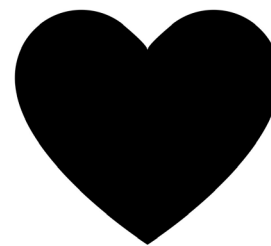
**CONTRIBUTE TO VIBRANCY AND
SOCIAL DYNAMICS**



CULTURAL EXPRESSIONS



EYES ON THE STREET



**PHYSICALL AND MENTAL
WELLBEING**



YOUTH EMPOWERMENT

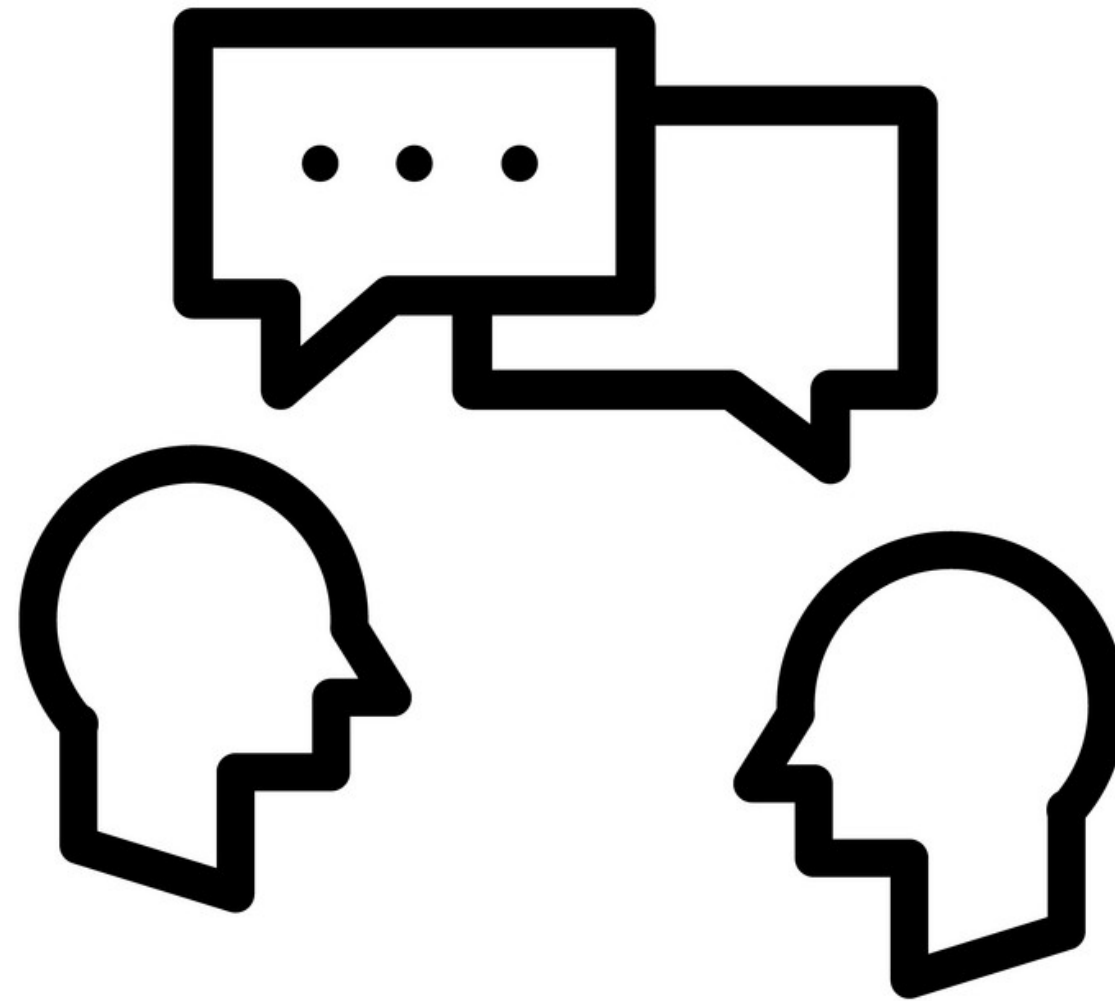
STREET CULTURE IS BAD?

HOSTILE ARCHITECTURE EXCLUDES INDIVIDUALS



STREET CULTURE IS MISUNDERSTOOD

A NEED FOR DIALOGUE AND MUTUAL UNDERSTANDING



MULTIFUNCTIONAL SPOT



KULTURFORUM, BERLIN

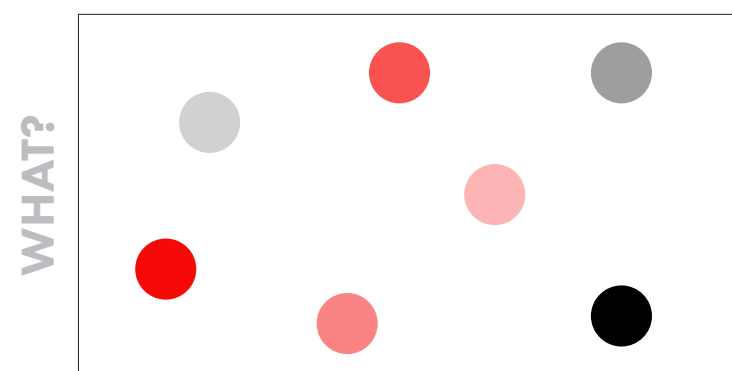
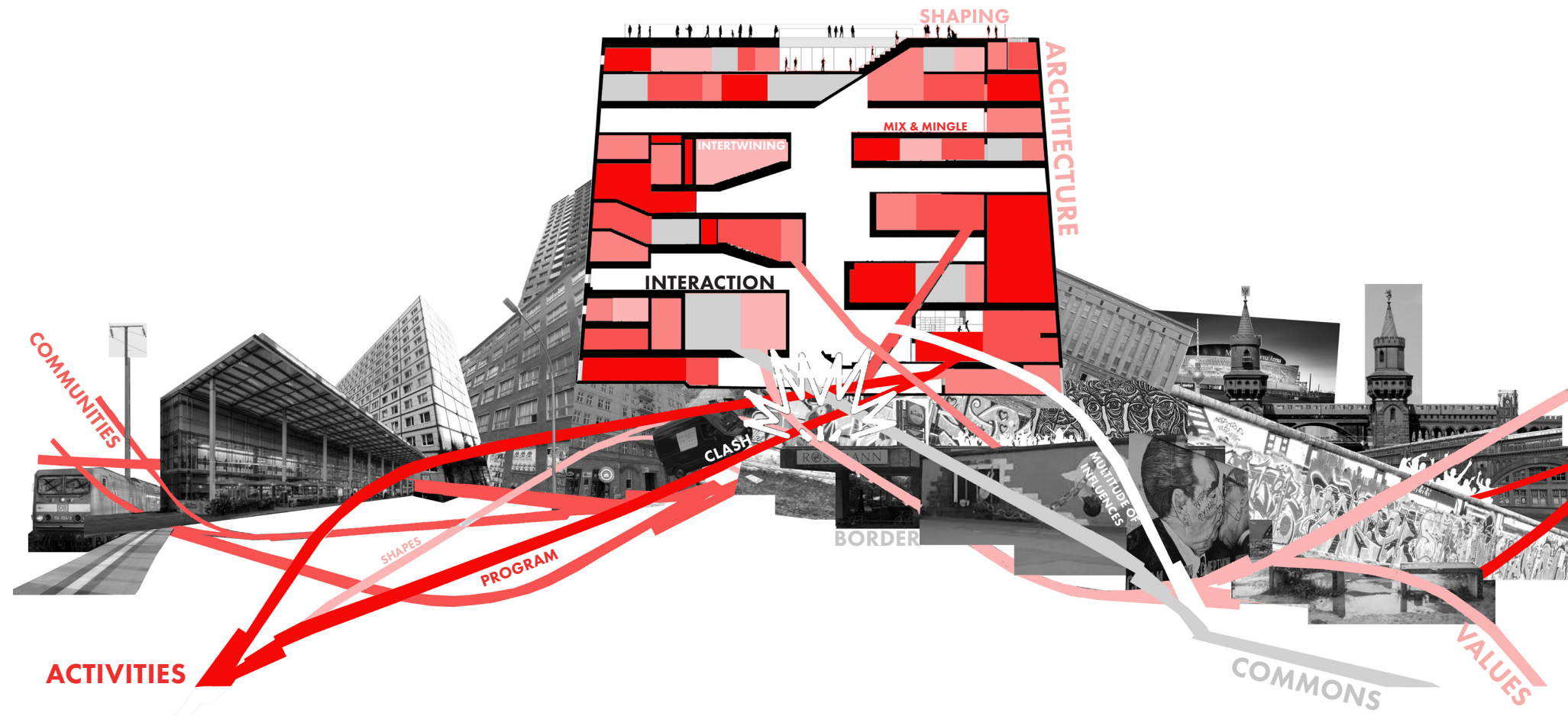


MULTIFUNCTIONAL SPOT

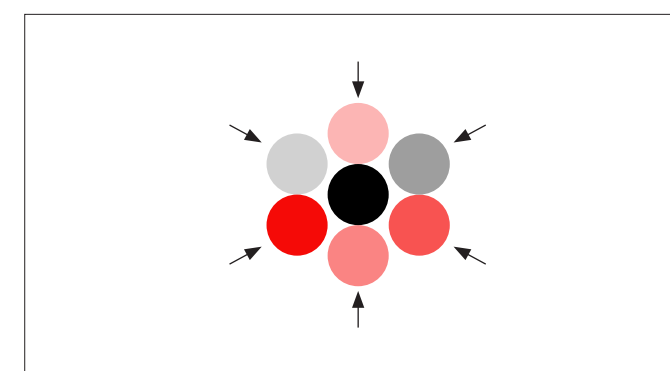


MUSEUM OF OCEAN AND SURF, STEVEN HOLL

WHAT IS A PUBLIC CONDENSOR?

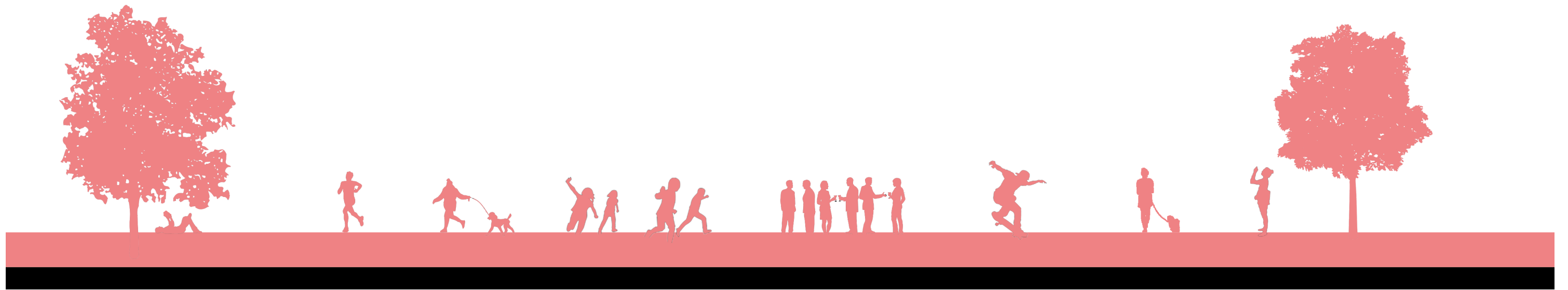


SCATTERED AND DIFFERENT COMMUNITIES



COMMUNITIES CONDENSED IN 1 PLACE

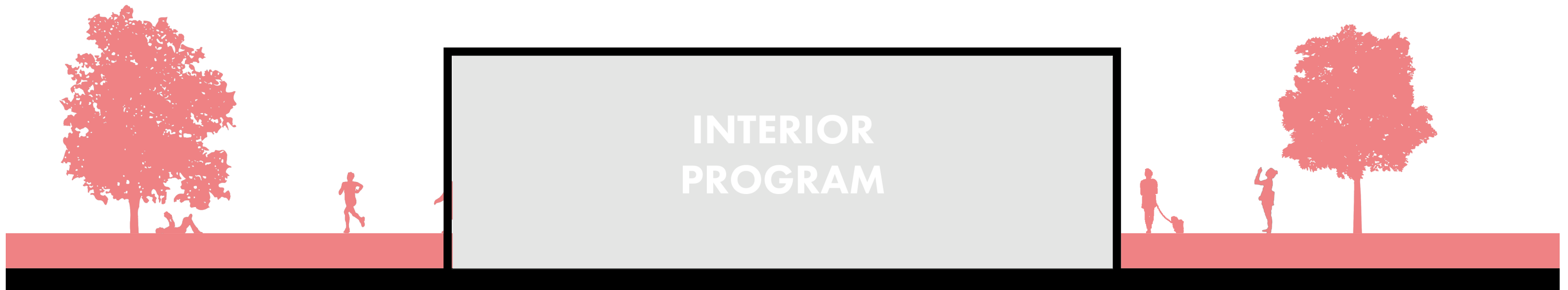
HOW PUBLIC IS A PUBLIC BUILDING?



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



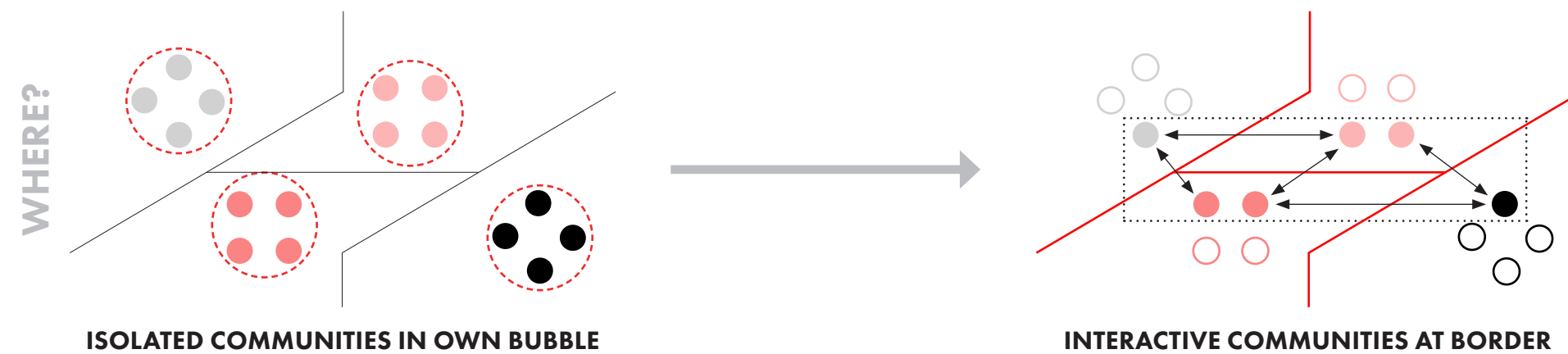
BERGHAIN

BERLIN, FRIEDRICHSHAIN



"DOGSHIT" SKATESPARK

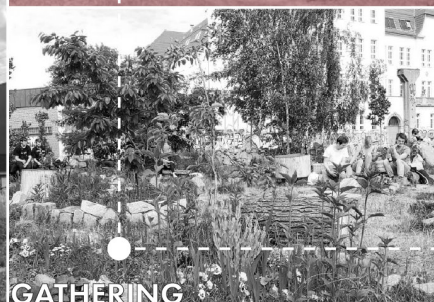
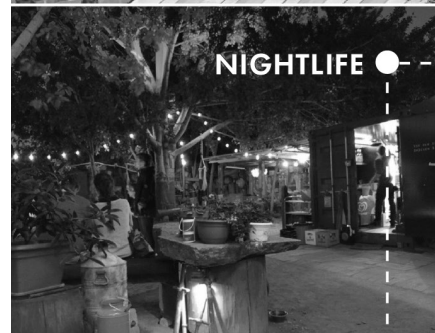
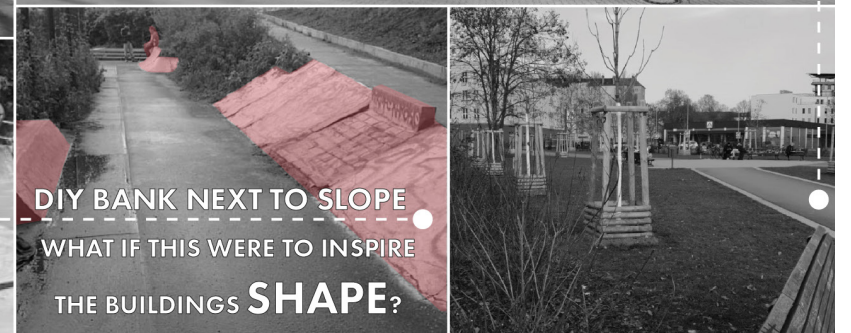
WHERE IN BERLIN?



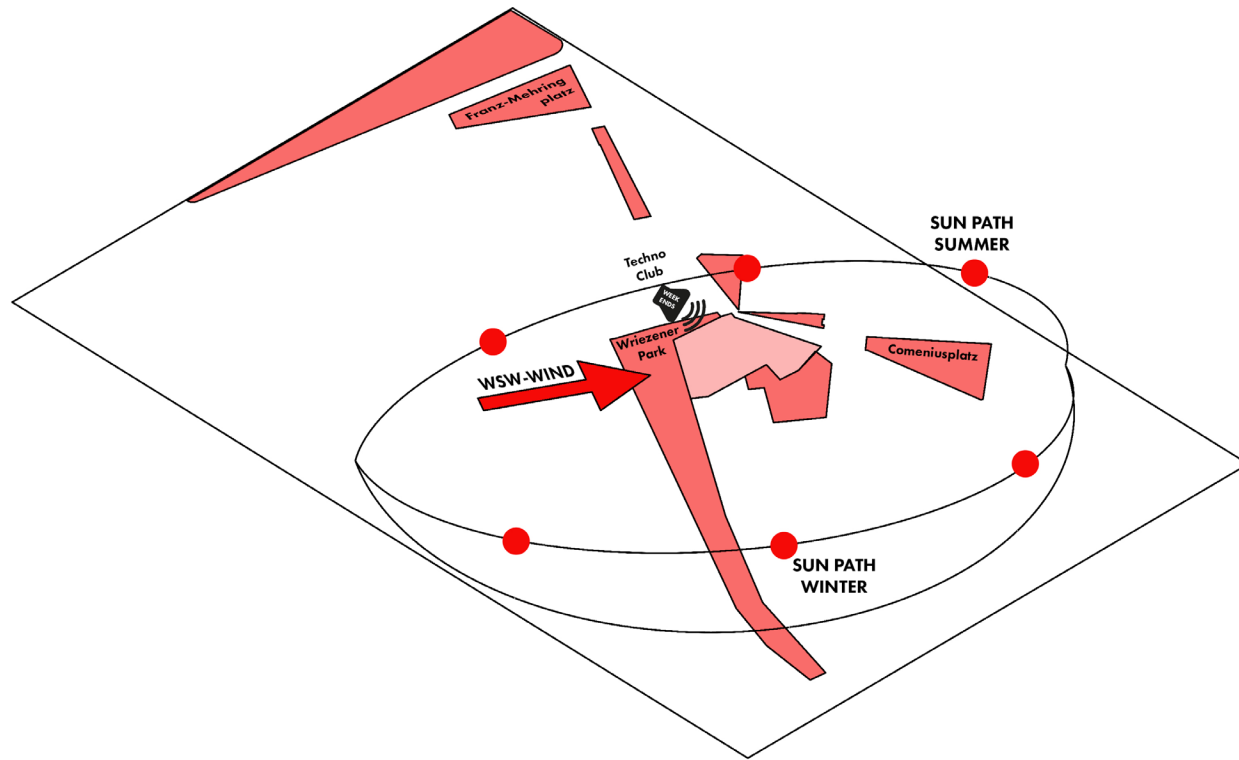
BORDER BETWEEN NEIGHBORHOODS



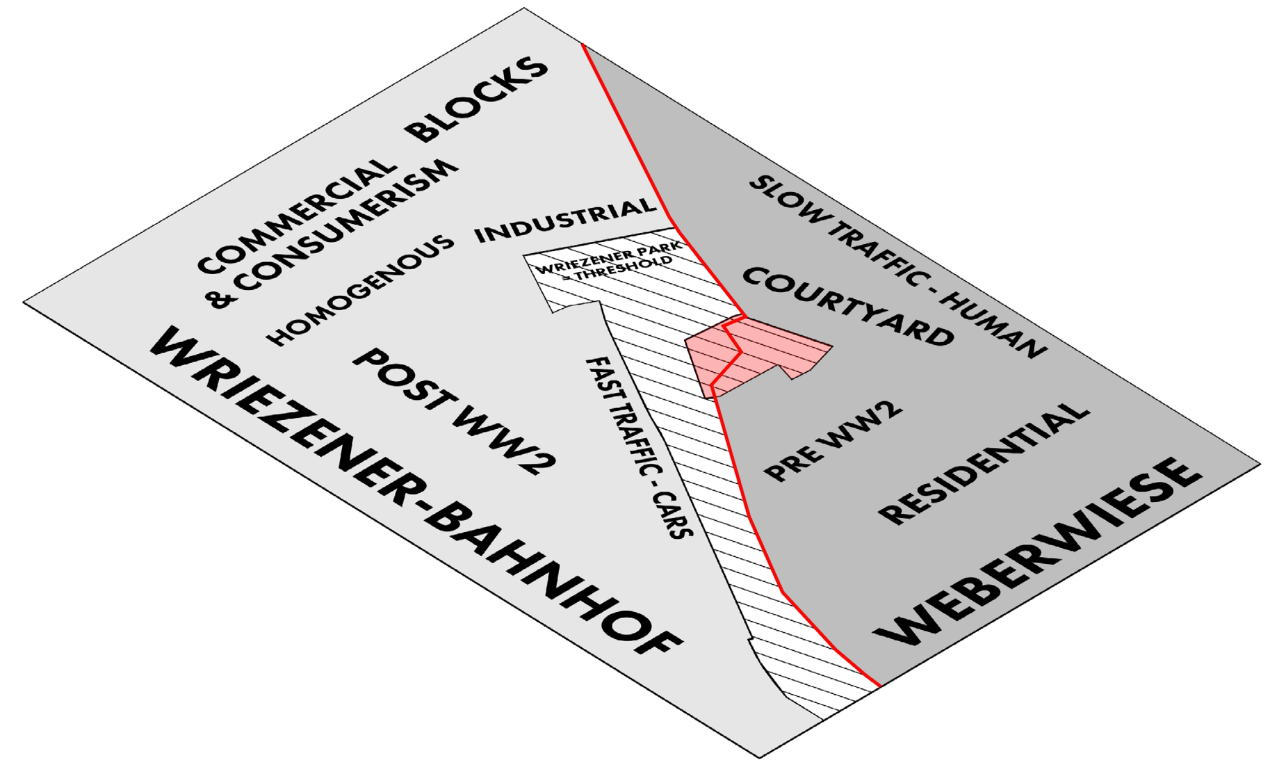
WRIEZENER PARK



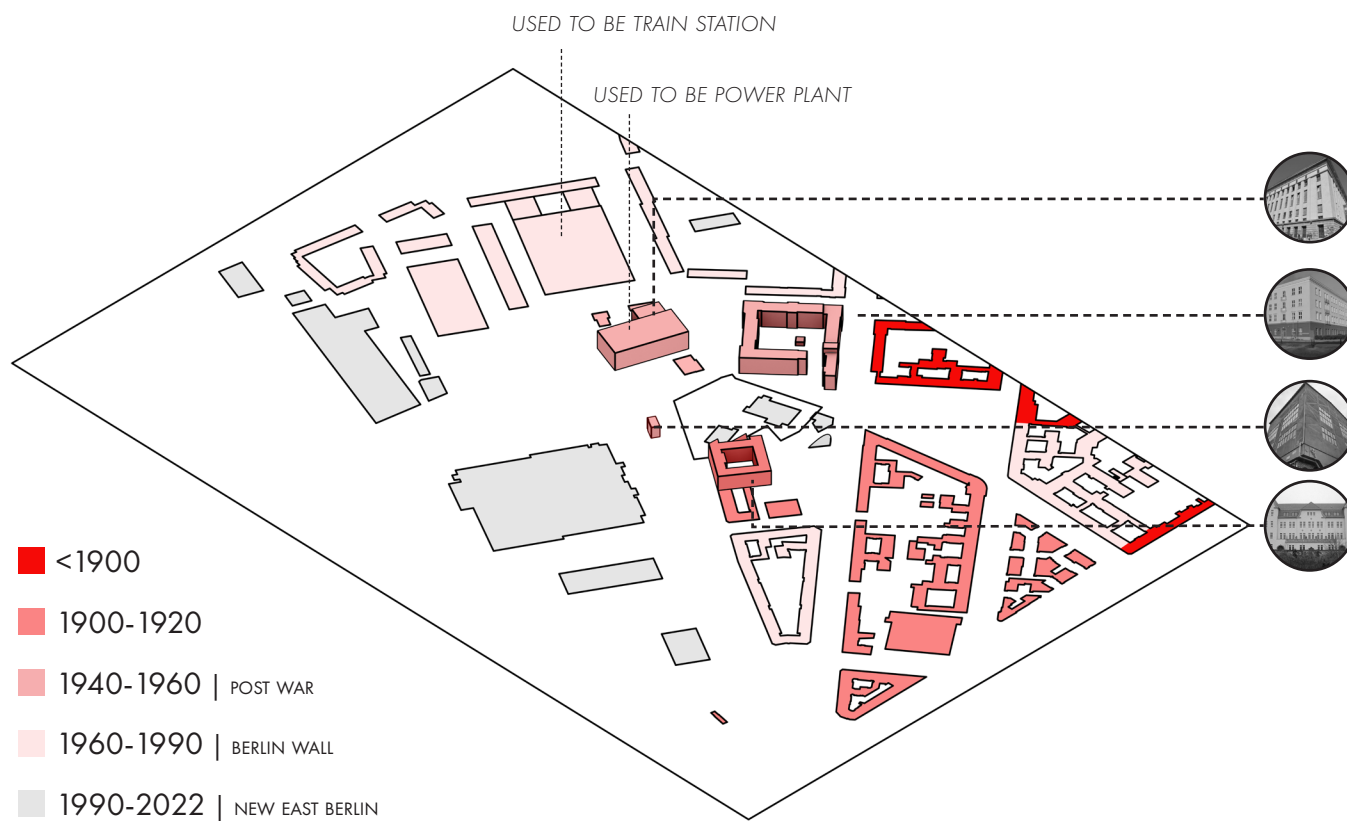
WRIEZENER PARK



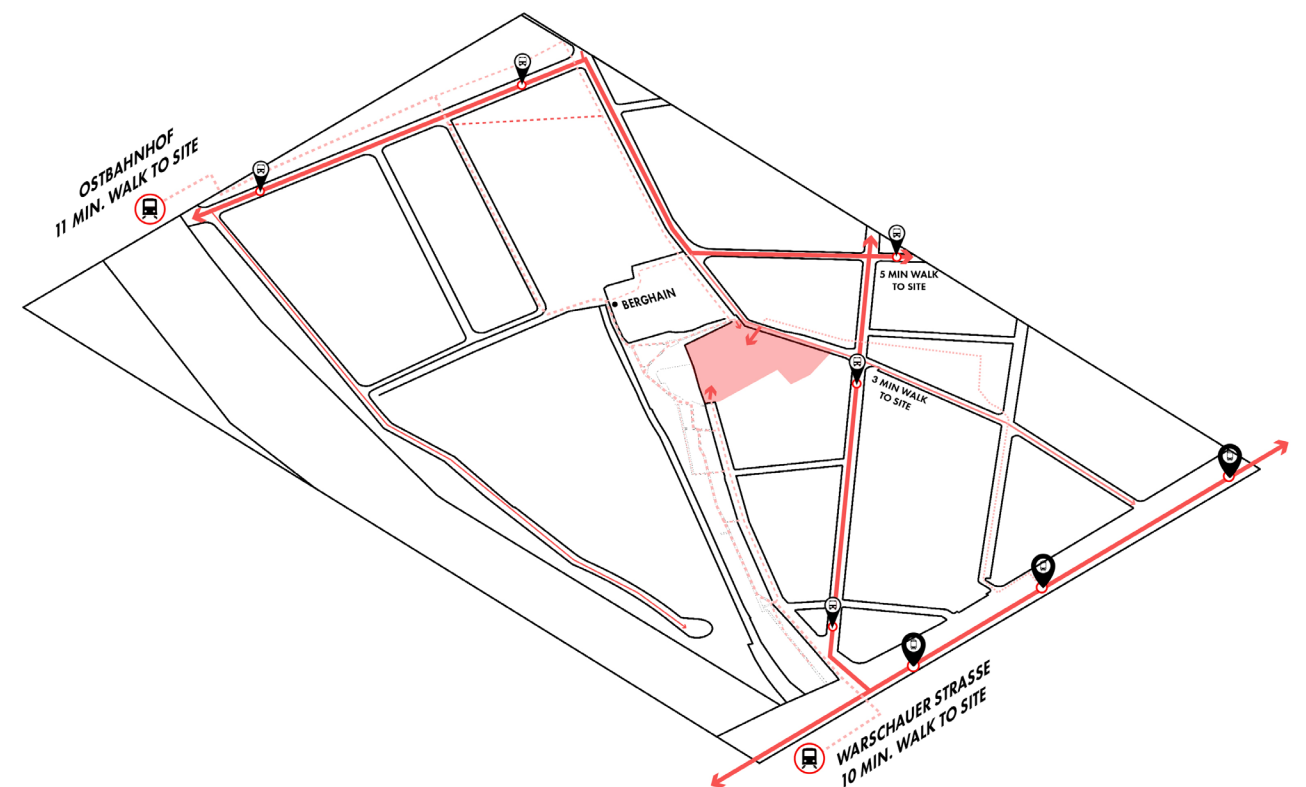
SURROUNDED BY GREEN



CONTRASTING THRESHOLD

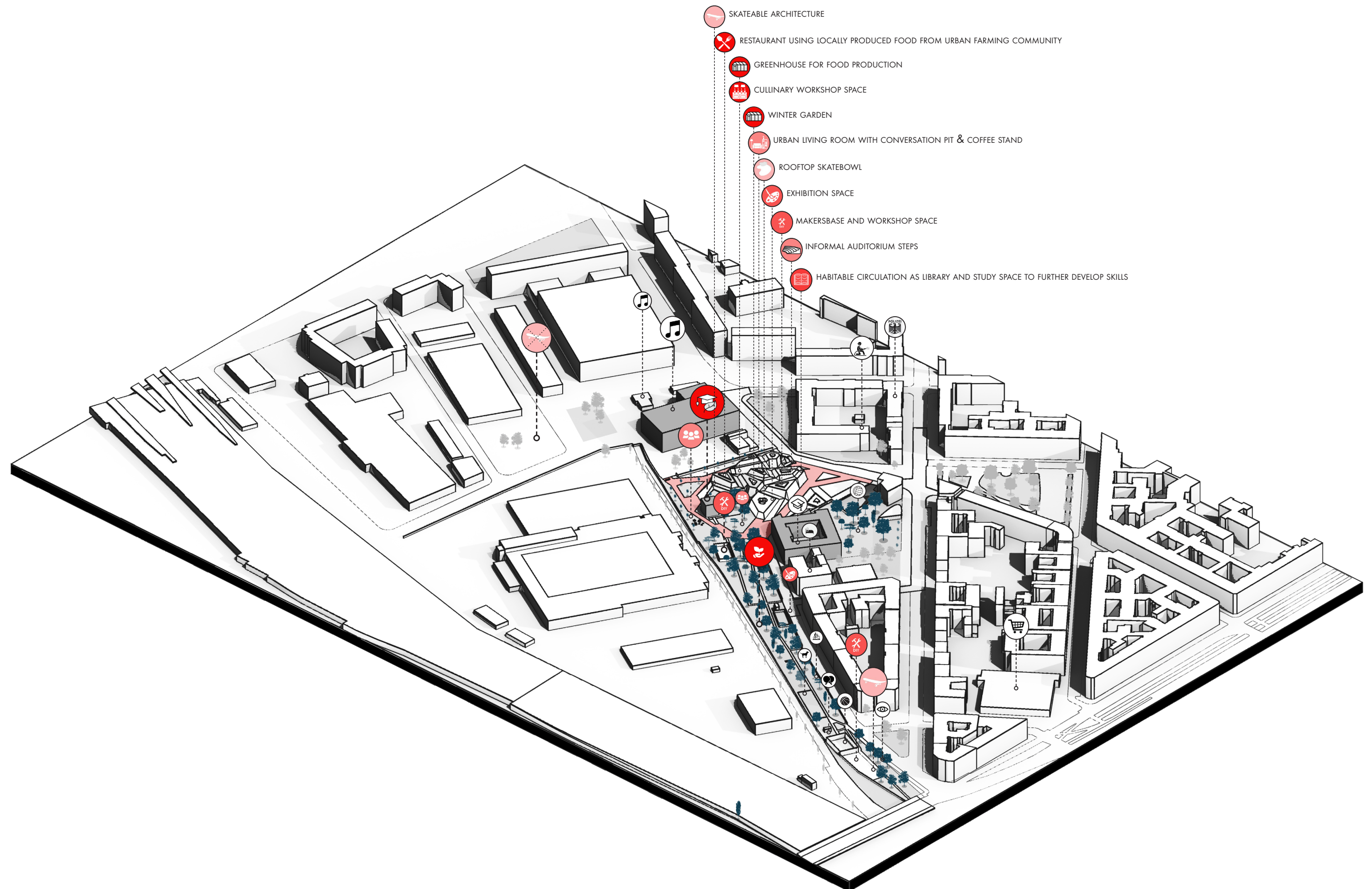


DIVERSE CONTEXT

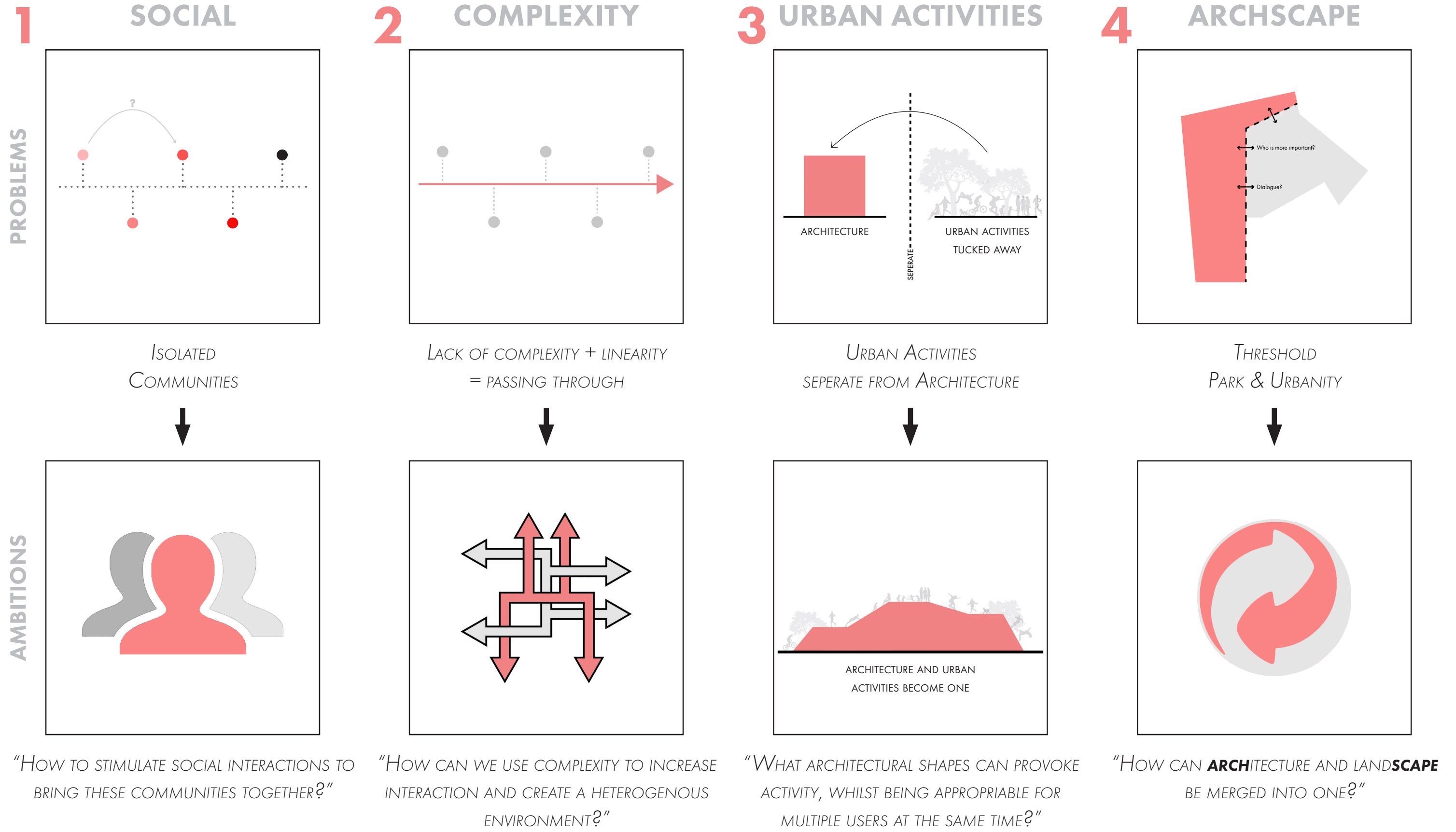


GREAT ACCESIBILITY

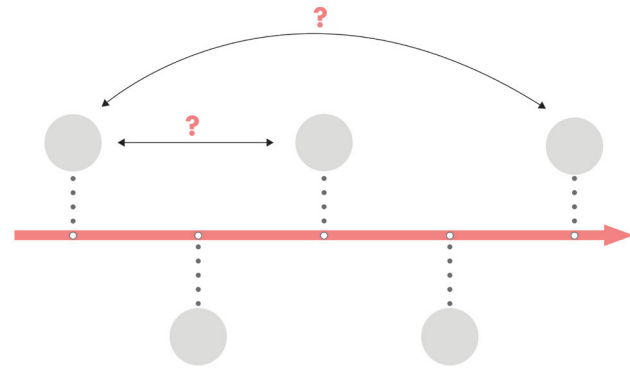
ARCHITECTURE AS COMPLEMENTARY PROGRAM



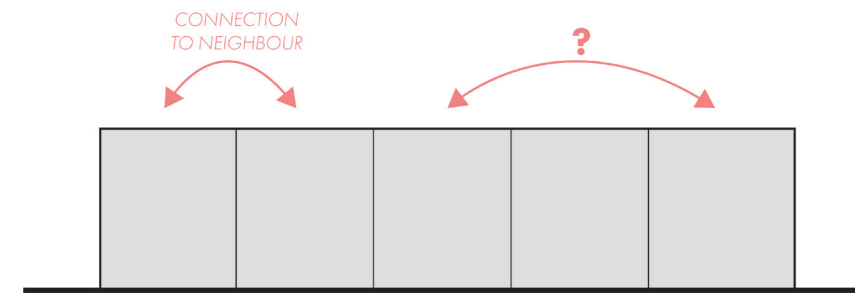
OBSERVATIONS AS FRAMEWORK FOR DESIGN



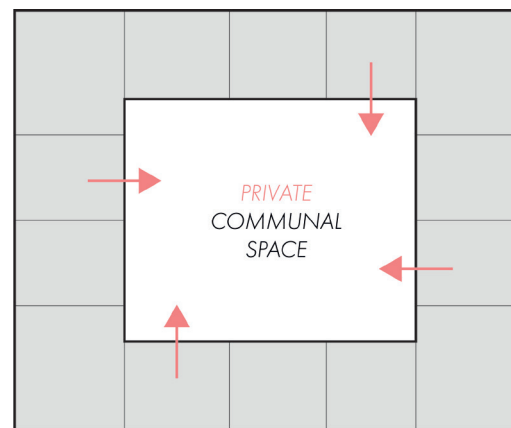
HOW TO MIX THEM THROUGH FORM?



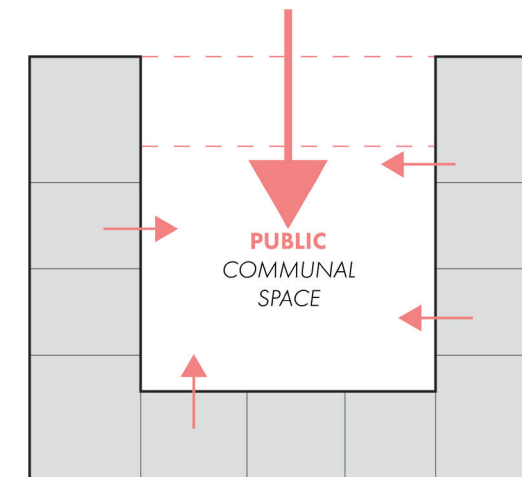
1. LINEARITY = LESS INTERACTION



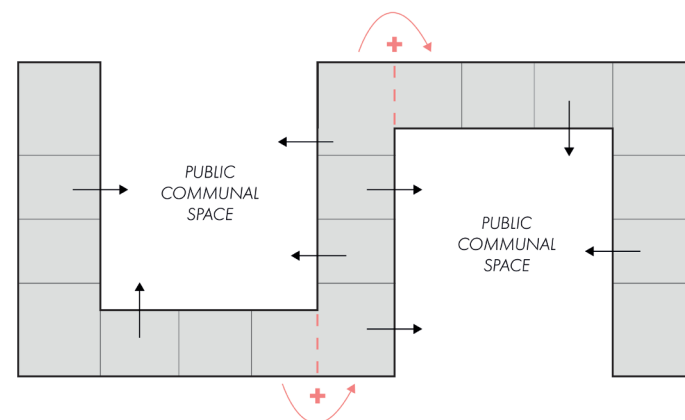
2. ROW TYPOLOGY =
NO COMMUNAL SPACE



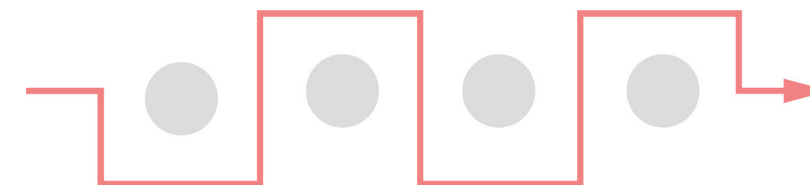
3. COURTYARD TYPOLOGY =
PRIVATE COMMUNAL SPACE



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

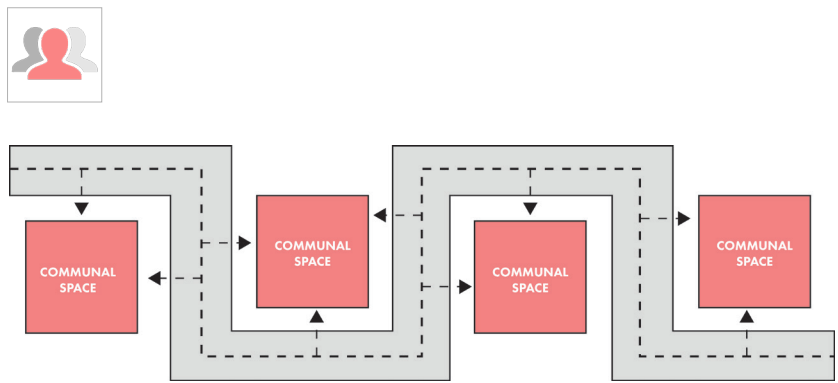


5. LINK & ALTERNATE =
MEANDERING COURTYARDS

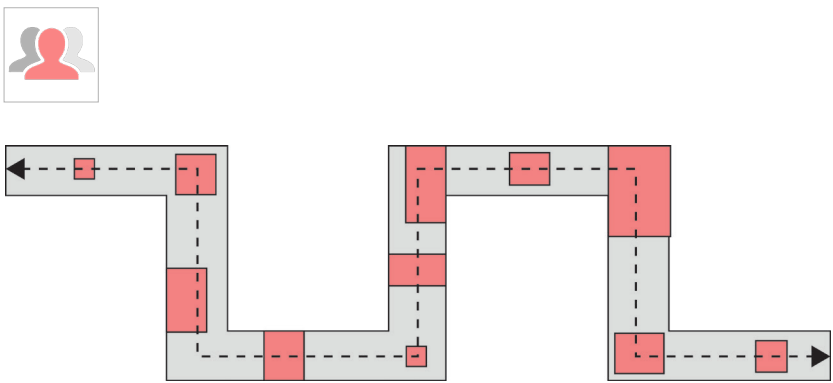


6. ZIGZAG PATTERN = PERMEABLE SHAPE

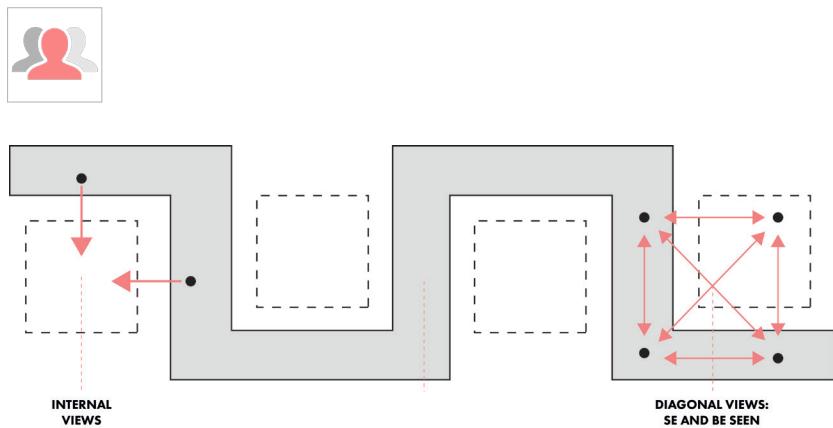
ZIGZAG CHARACTERISTICS



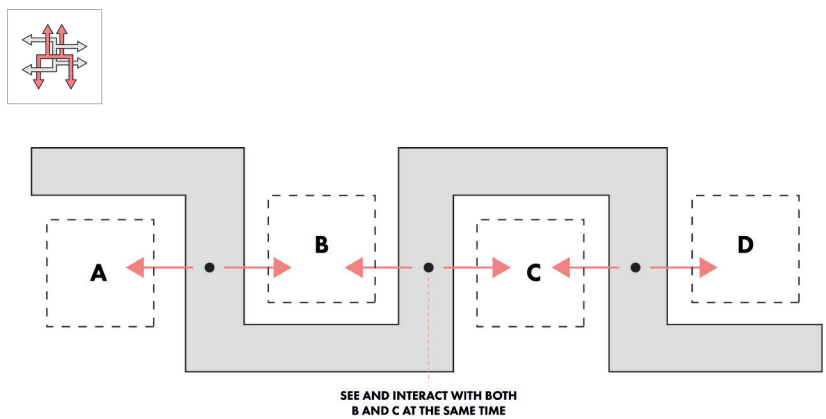
1. COMMUNAL SPACES IN COURTYARDS,
SURROUNDED BY CIRCULATION



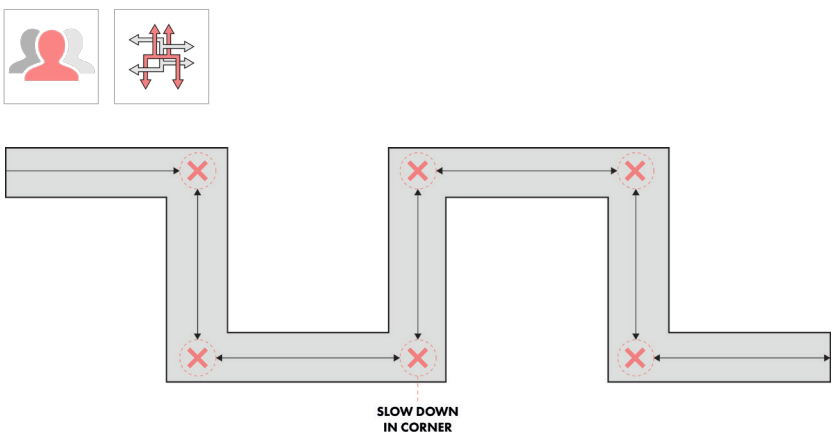
2. INTERSECTED PROGRAM WITH CIRCULATION =
HABITABLE CIRCULATION FOR INCREASED INTERACTIONS



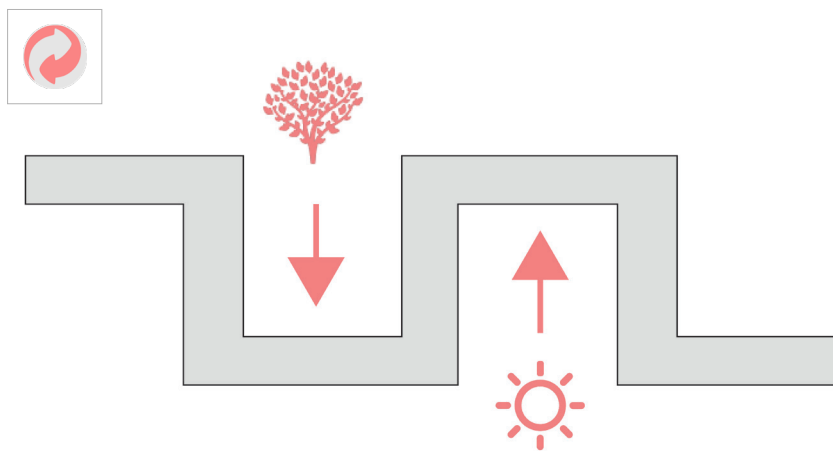
3. VIEWS FOR SOCIAL INTERACTION AND EXPLORATION



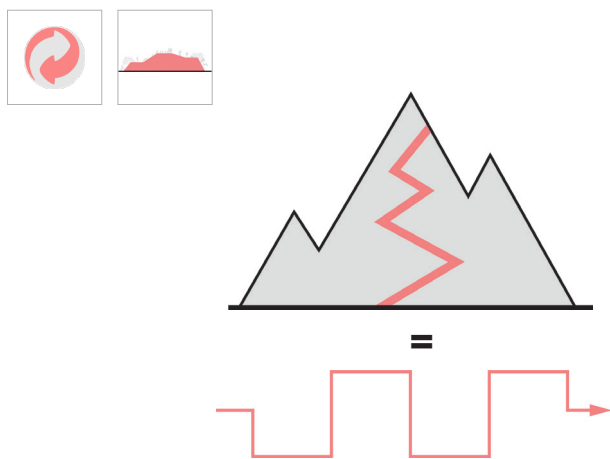
4. HETEROGENOUS INTERACTION & PERSPECTIVES
VS MONOTONOUS DUE TO LINEARITY



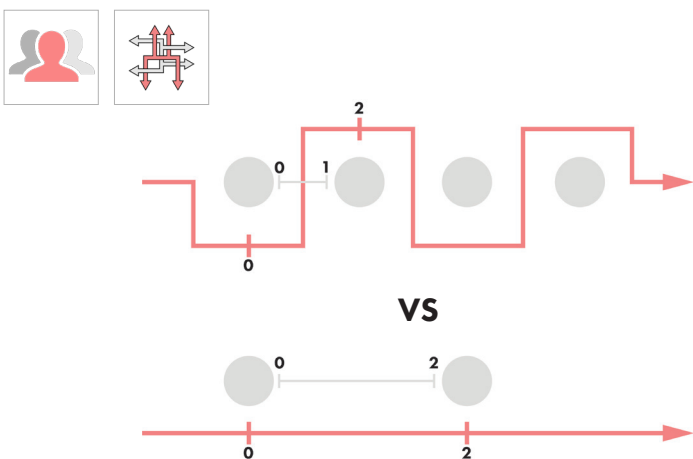
5. CORNERS SLOW USERS DOWN



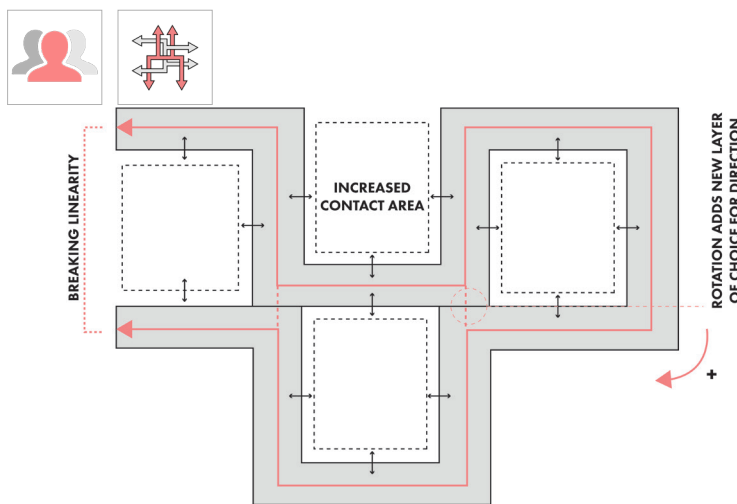
6. INVITE CONTEXT, NATURE AND DAYLIGHT IN



7. SUITABLE FOR GAINING HEIGHT



8. REDUCES DISTANCE BETWEEN SPACES,
BY EXPANDING CONTACT AREA

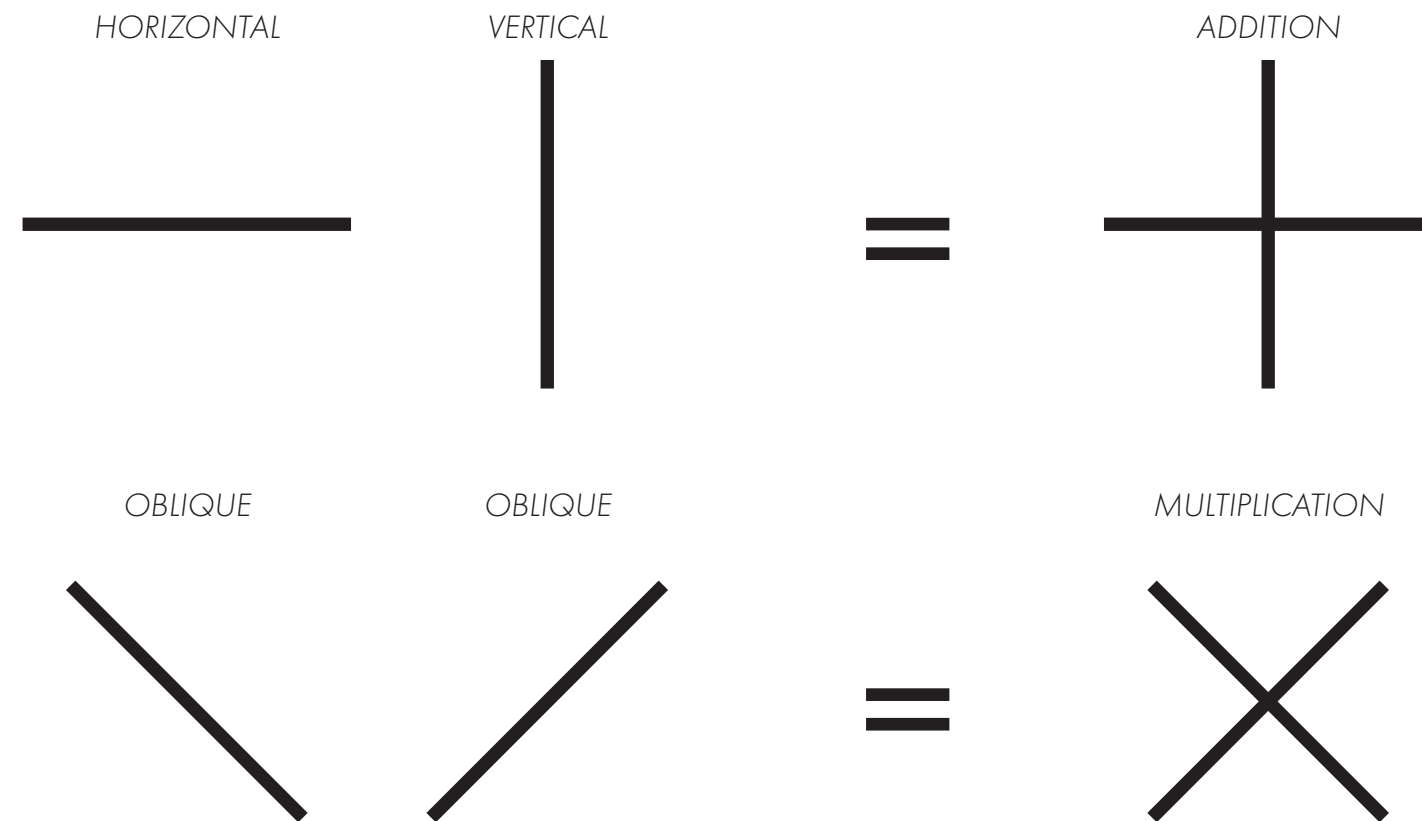


9. LINK & ROTATE = ENHANCED CHARACTERISTICS

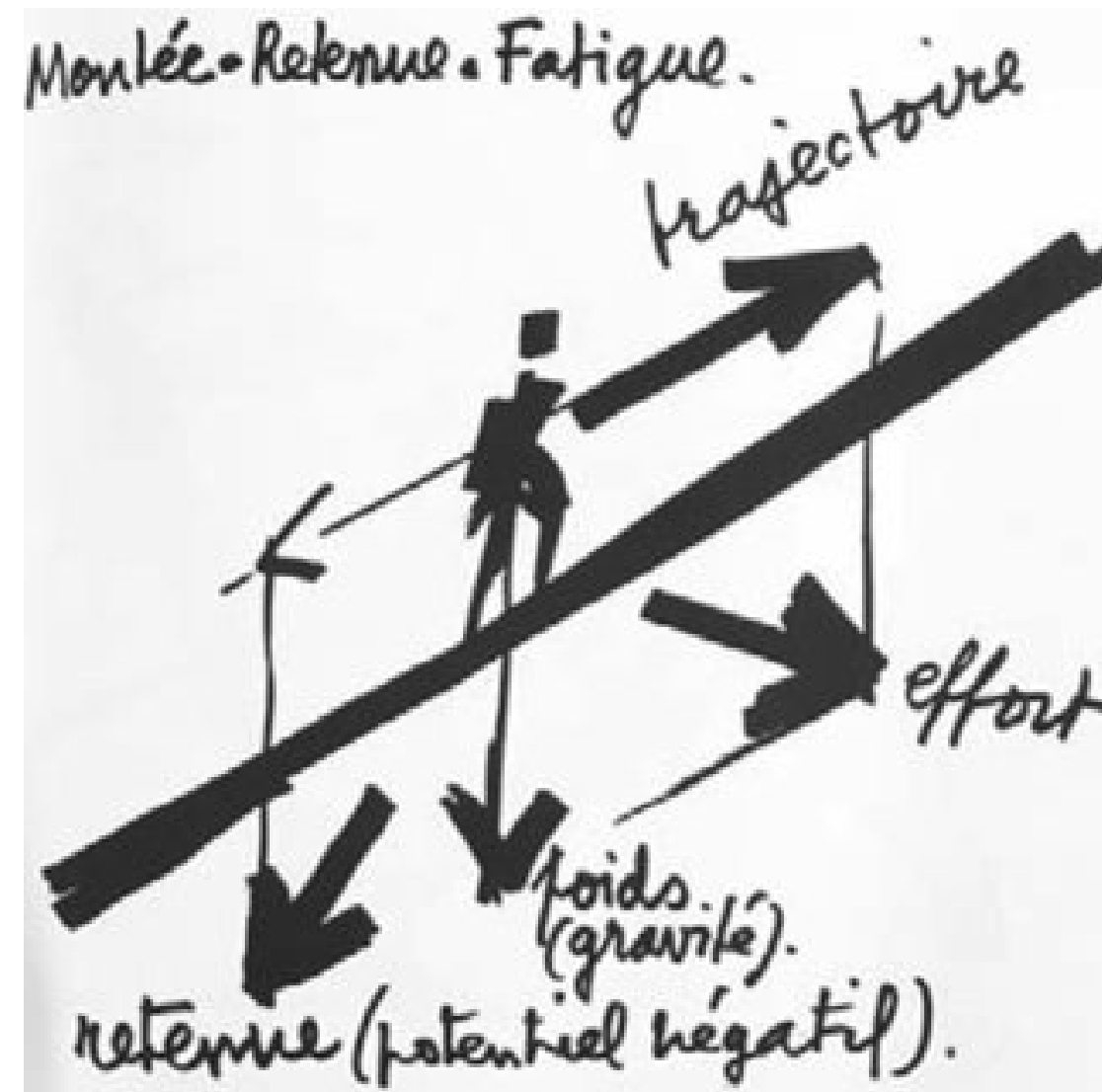
THE OBLIQUE

"BEING INCLINED, THE WALL BECOMES EXPERIENCEABLE"

PAUL VIRILLIO, CLAUDE PARENT - FUNCTION OF THE OBLIQUE



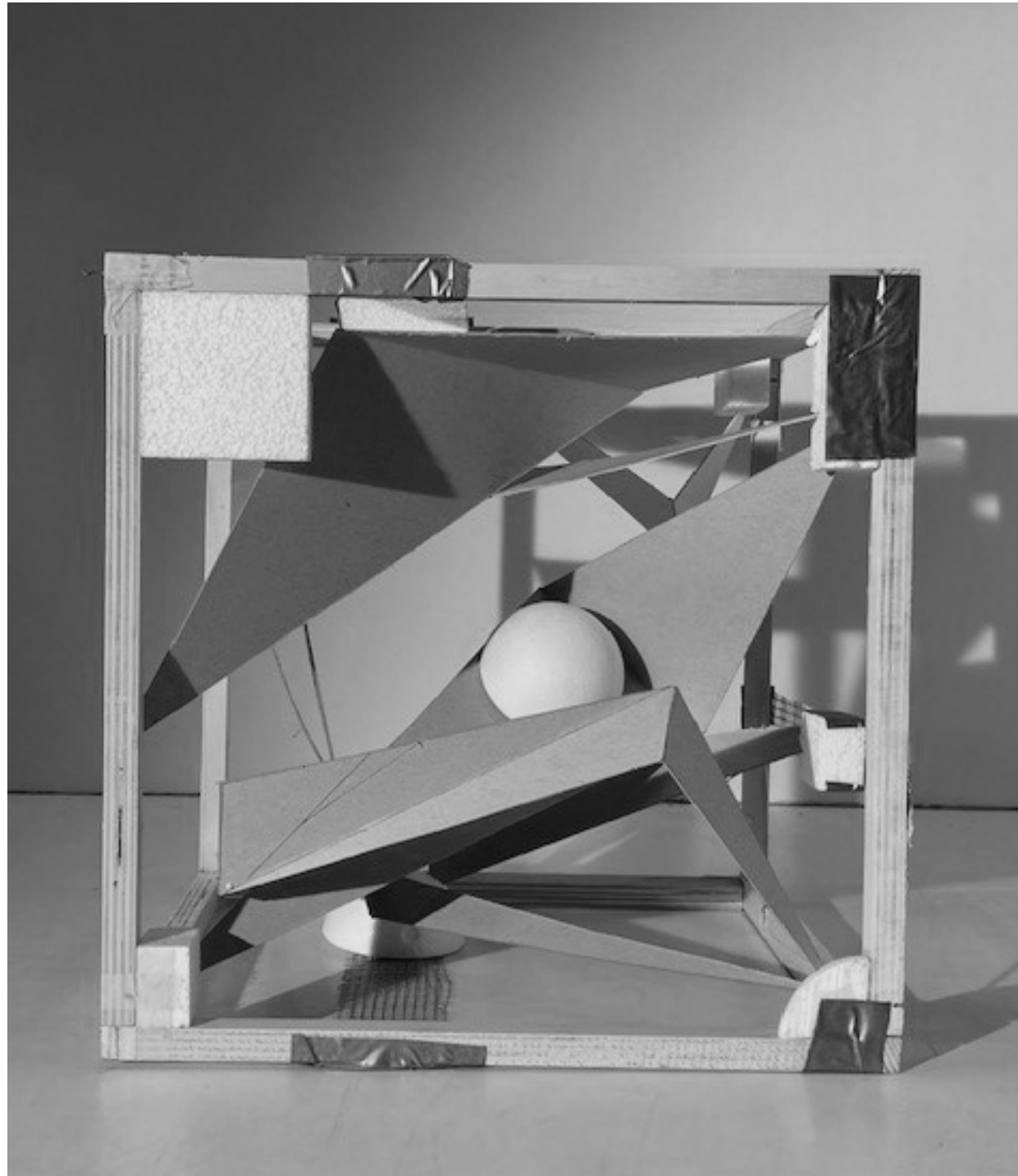
FUNCTION OF THE OBLIQUE



THE OBLIQUE AND PERCEPTION



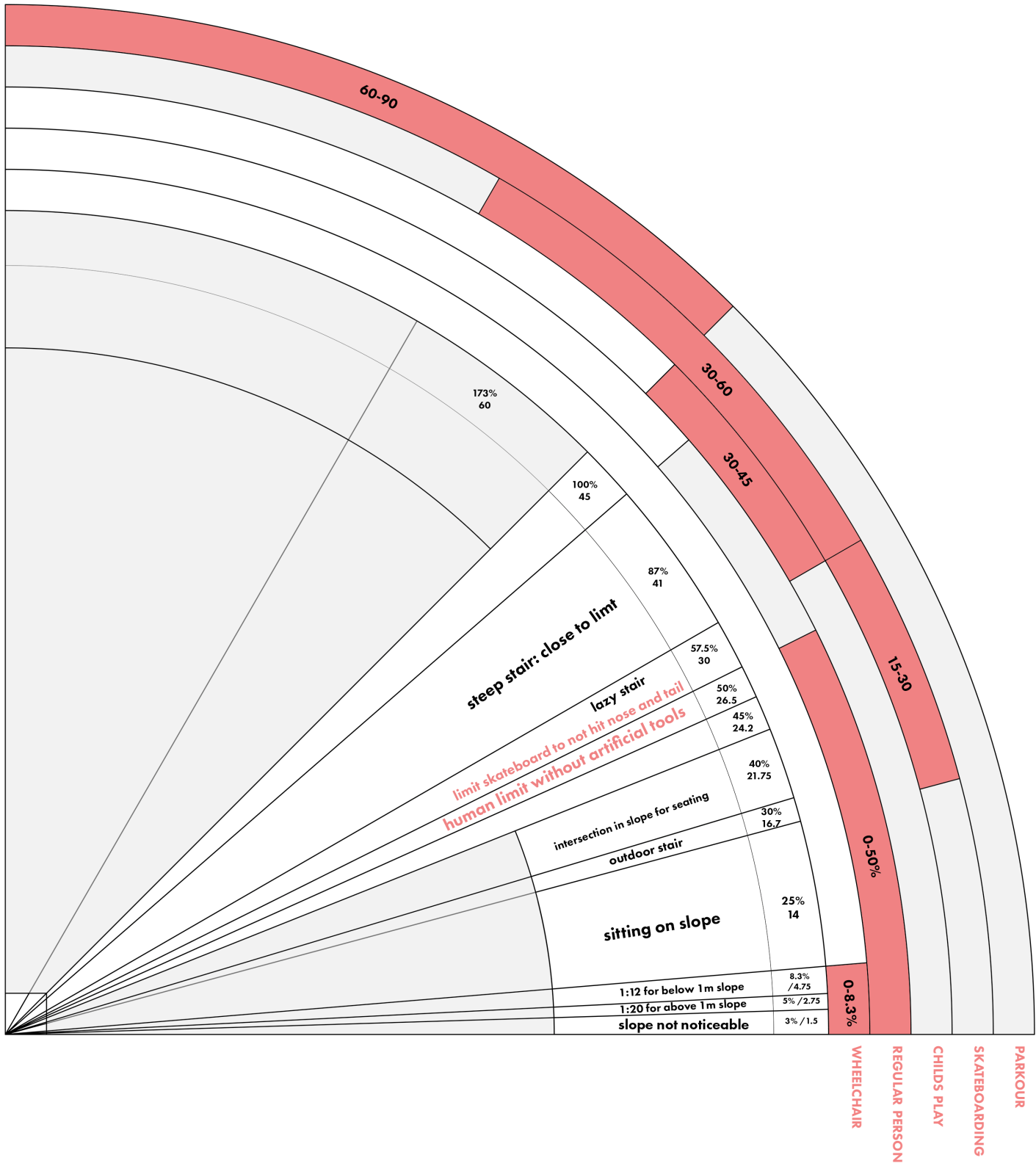
THE OBLIQUE AND PERCEPTION



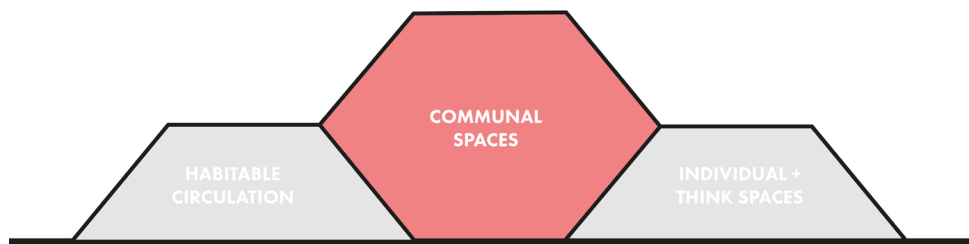
THE OBLIQUE AND STREET CULTURE



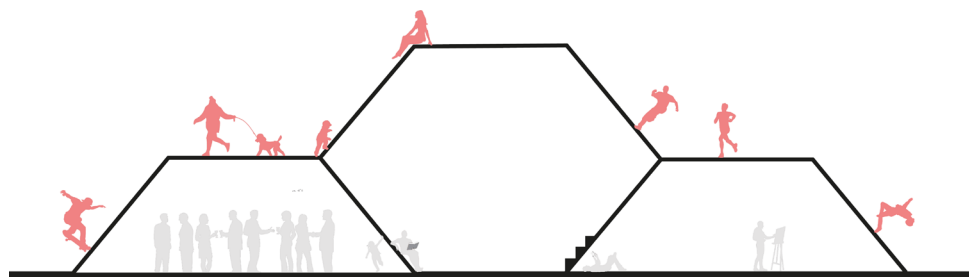
VARIETY OF ANGLES FOR A VARIETY OF USE



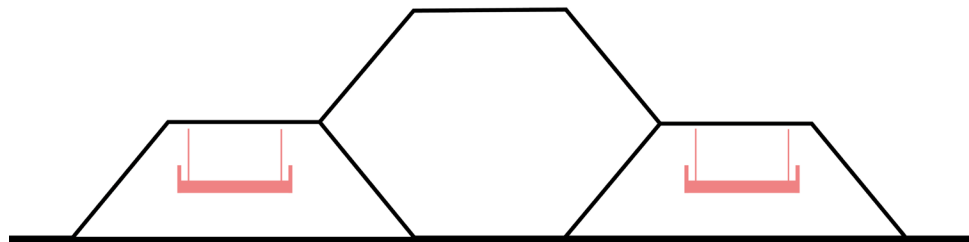
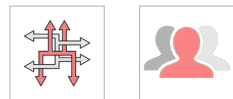
OBLIQUE SECTION CONCEPT



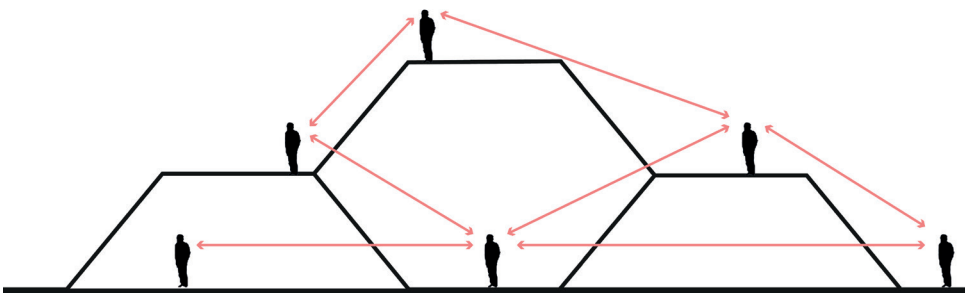
1. PROGRAM DISTRIBUTION:
COMMUNAL VS INDIVIDUAL



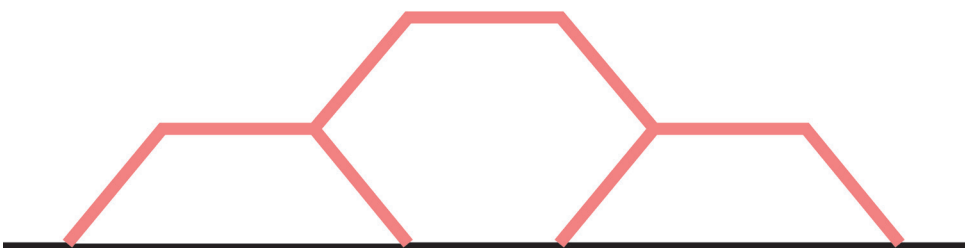
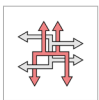
3. FORM PROVOKES ACTIVITY INSIDE AND OUTSIDE
AT THE SAME TIME



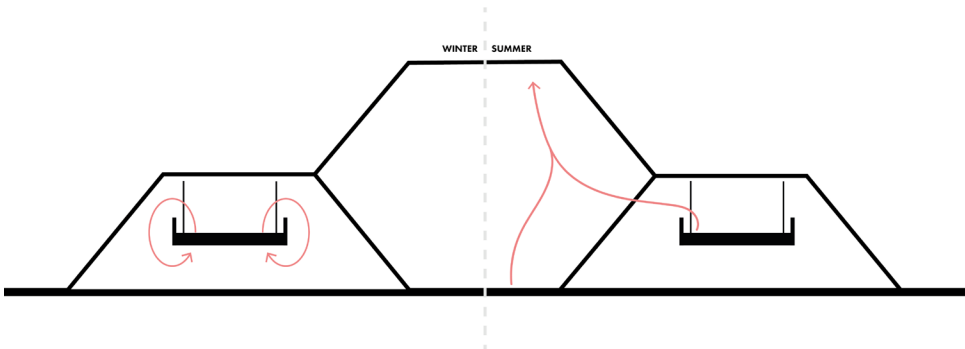
5. LEVELS SEPERATED FROM PORTAL STRUCTURE



2. VISUAL CONNECTIONS ON ALL LAYERS,
DUE TO DIAGONAL

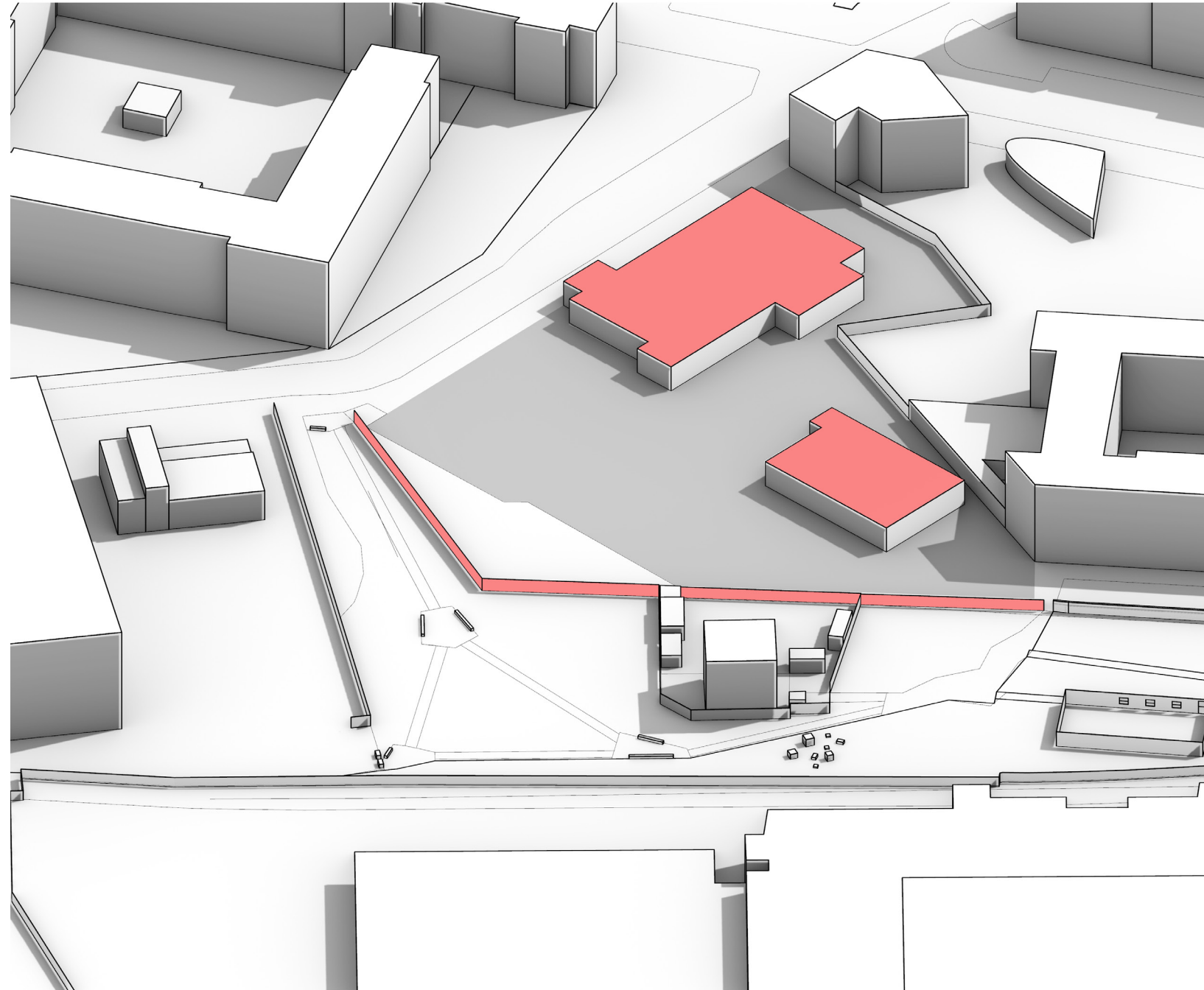


4. PORTAL CONSTRUCTION
STRUCTURES THE ARCHITECTURE



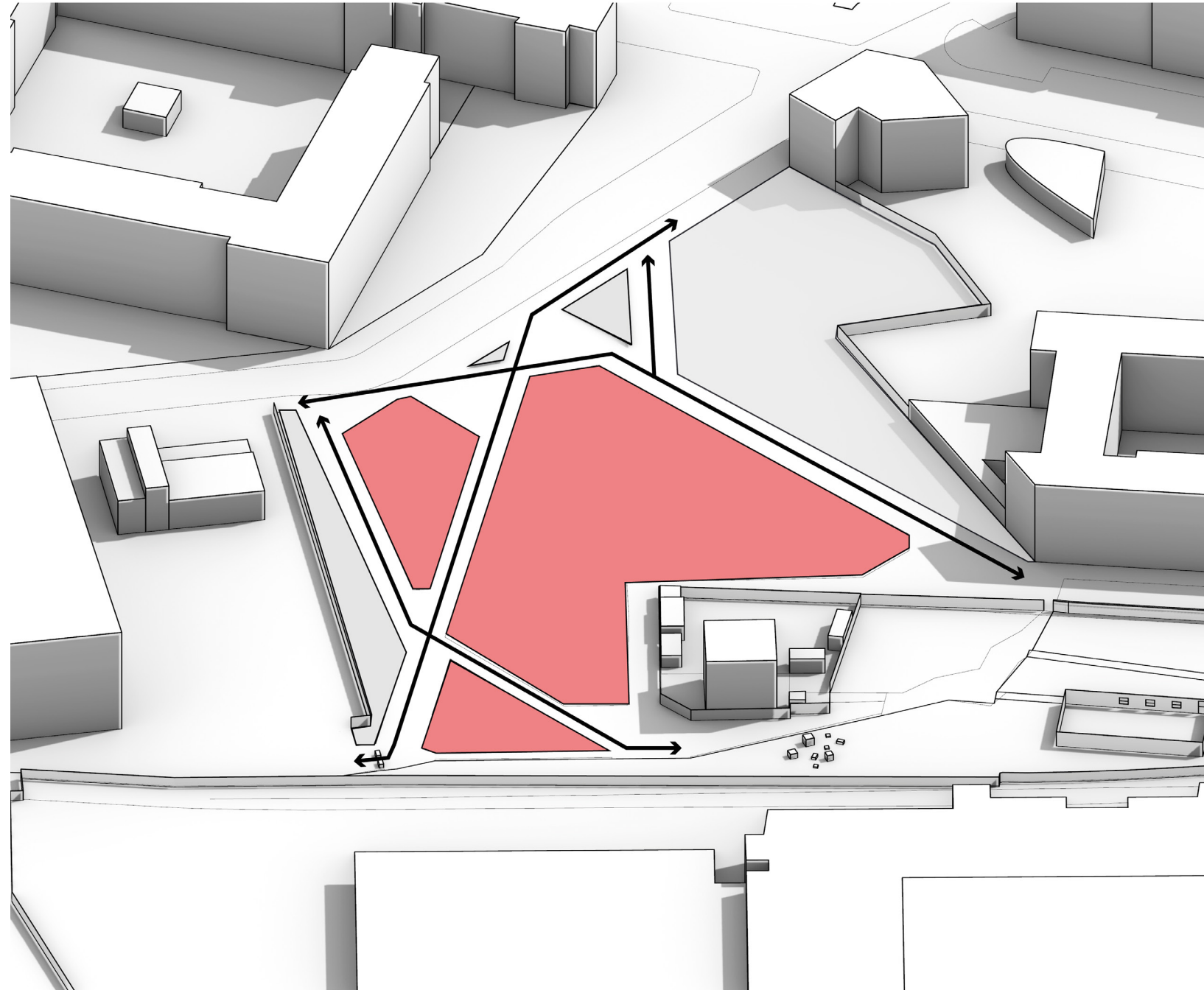
6. MAIN STRUCTURE FREE OF VENTILATION CANALS

FORM CONCEPT



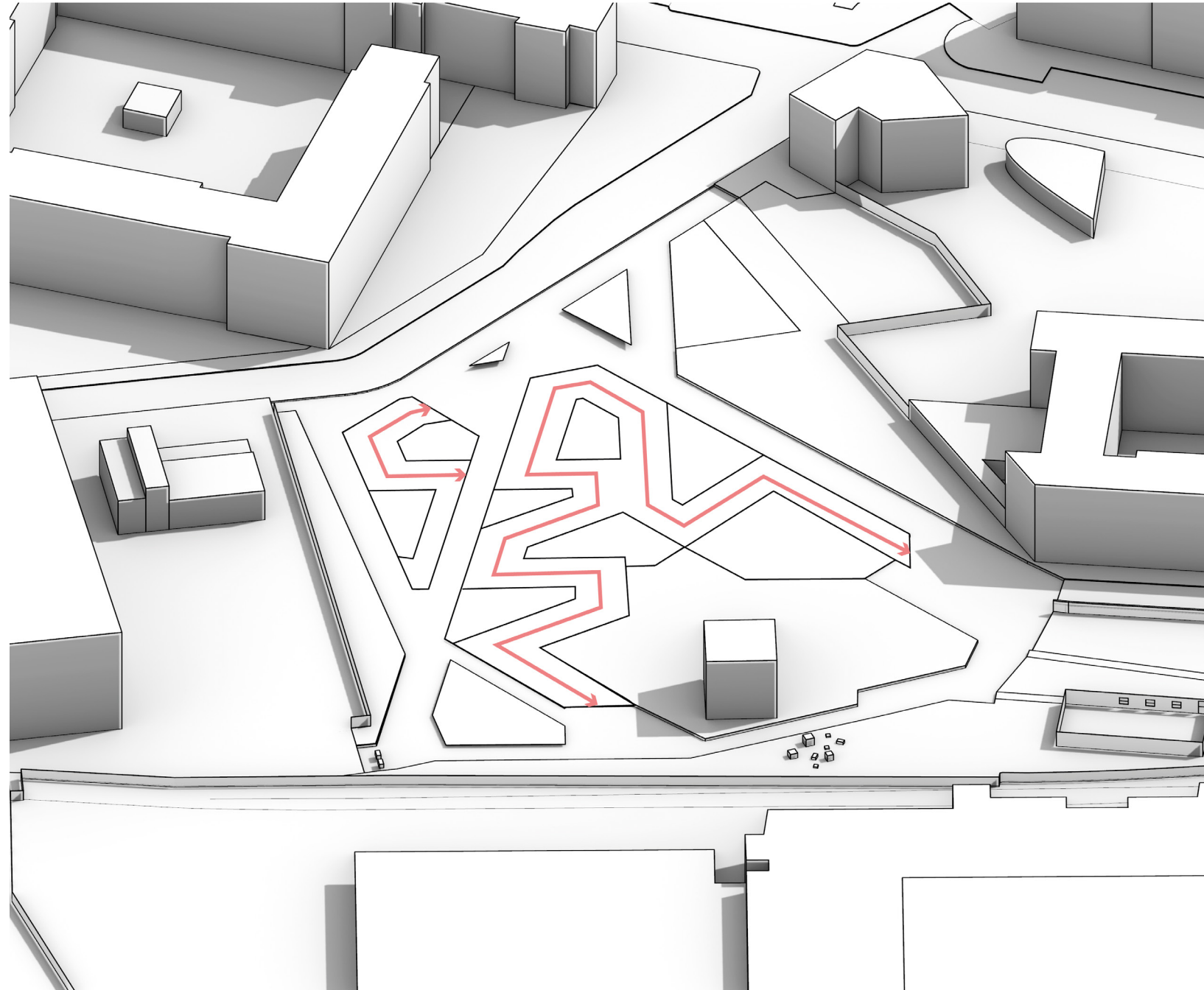
1. REMOVE ANOMALIES TO MAKE SPACE FOR A MORE COHESIVE AND INTEGRATED CULTURAL SPACE

FORM CONCEPT



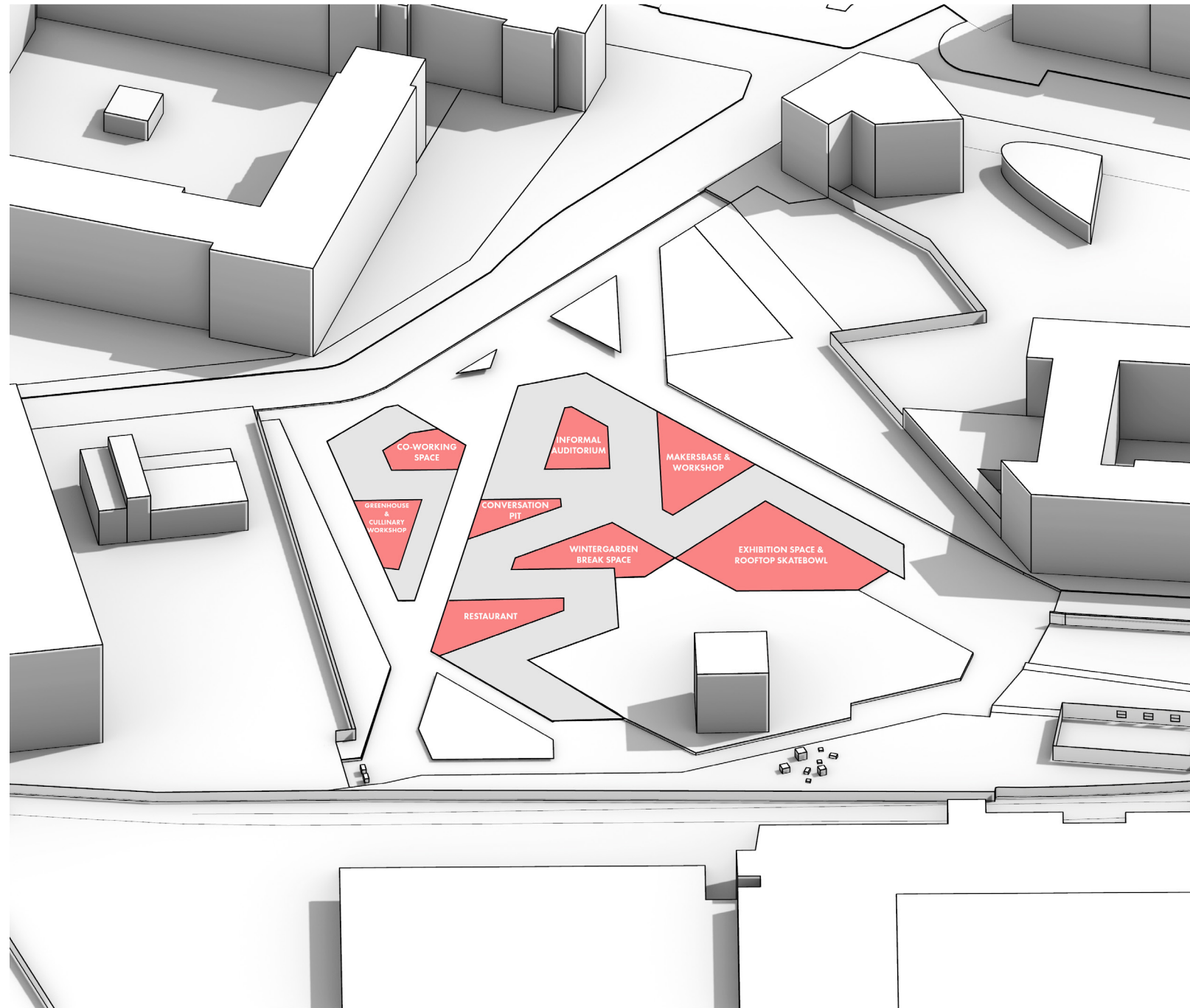
2. *EXTEND PARK INTO SITE AND CREATE CONNECTIONS*

FORM CONCEPT



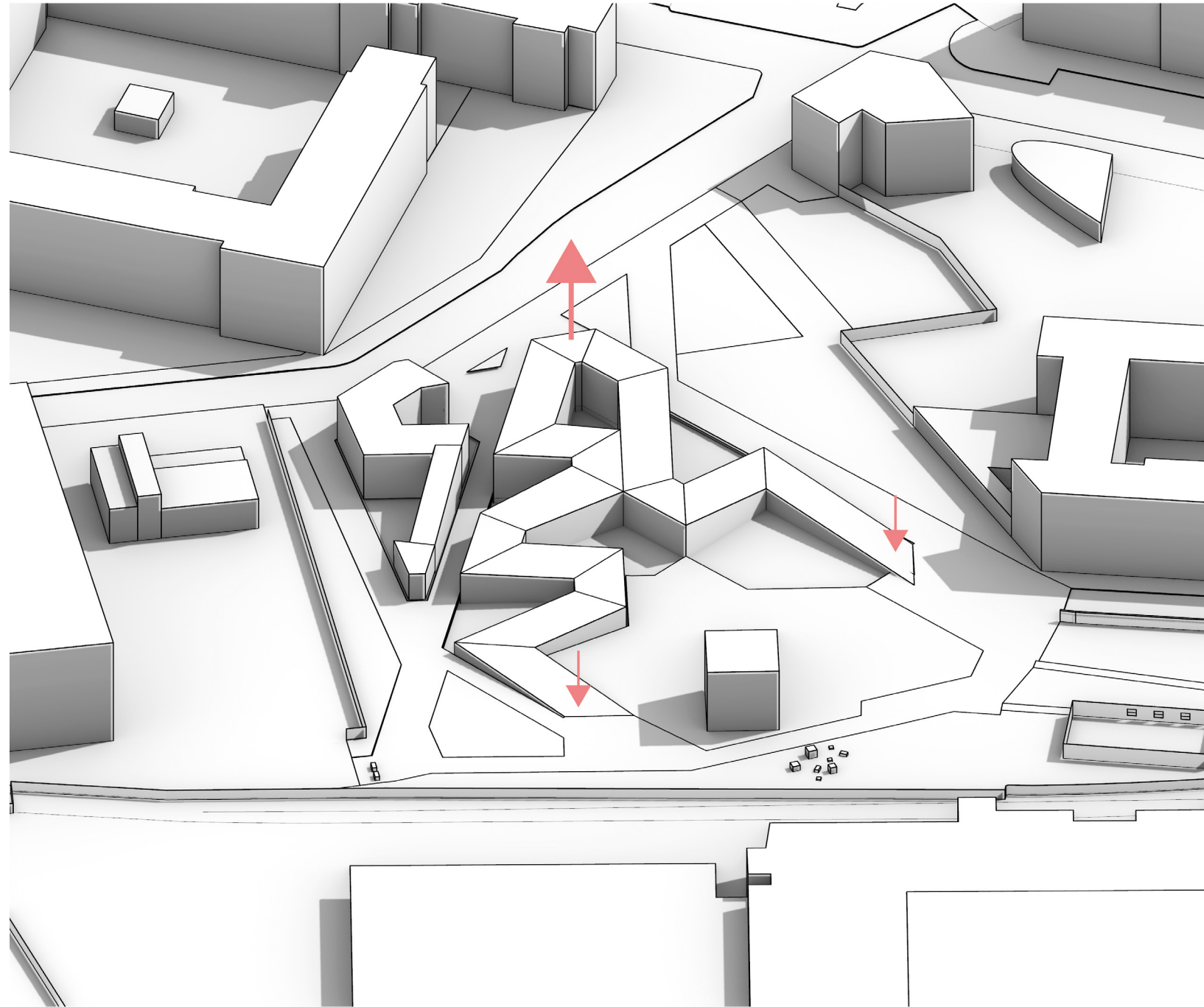
3. ZIGZAG PATTERN ON SITE BREAKS LINEARITY

FORM CONCEPT



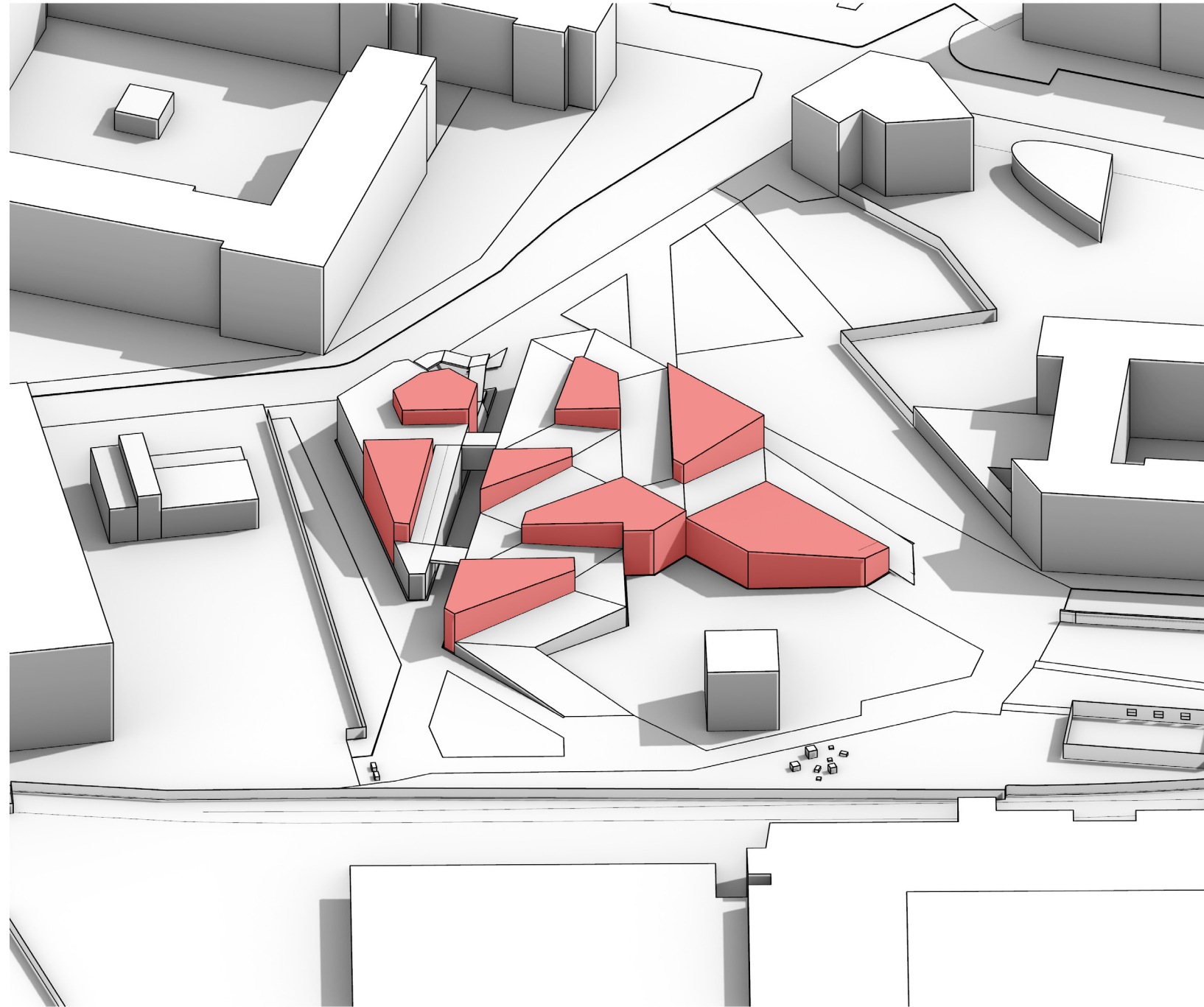
4. COMMUNAL SPACES AND HABITABLE CIRCULATION CREATED BY ZIGZAG

FORM CONCEPT



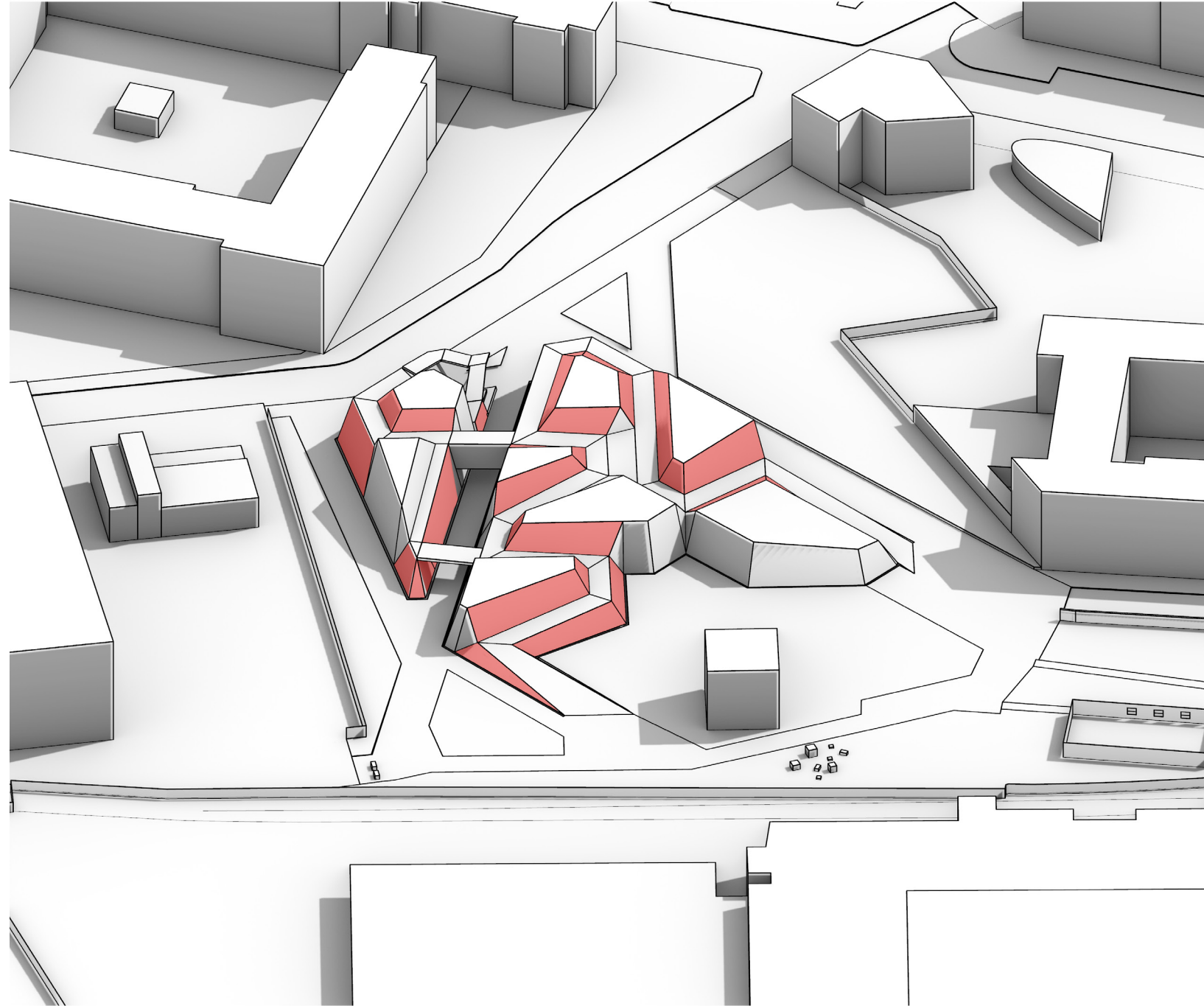
5. *OBLIQUE ROUTE UP AND DOWN*

FORM CONCEPT



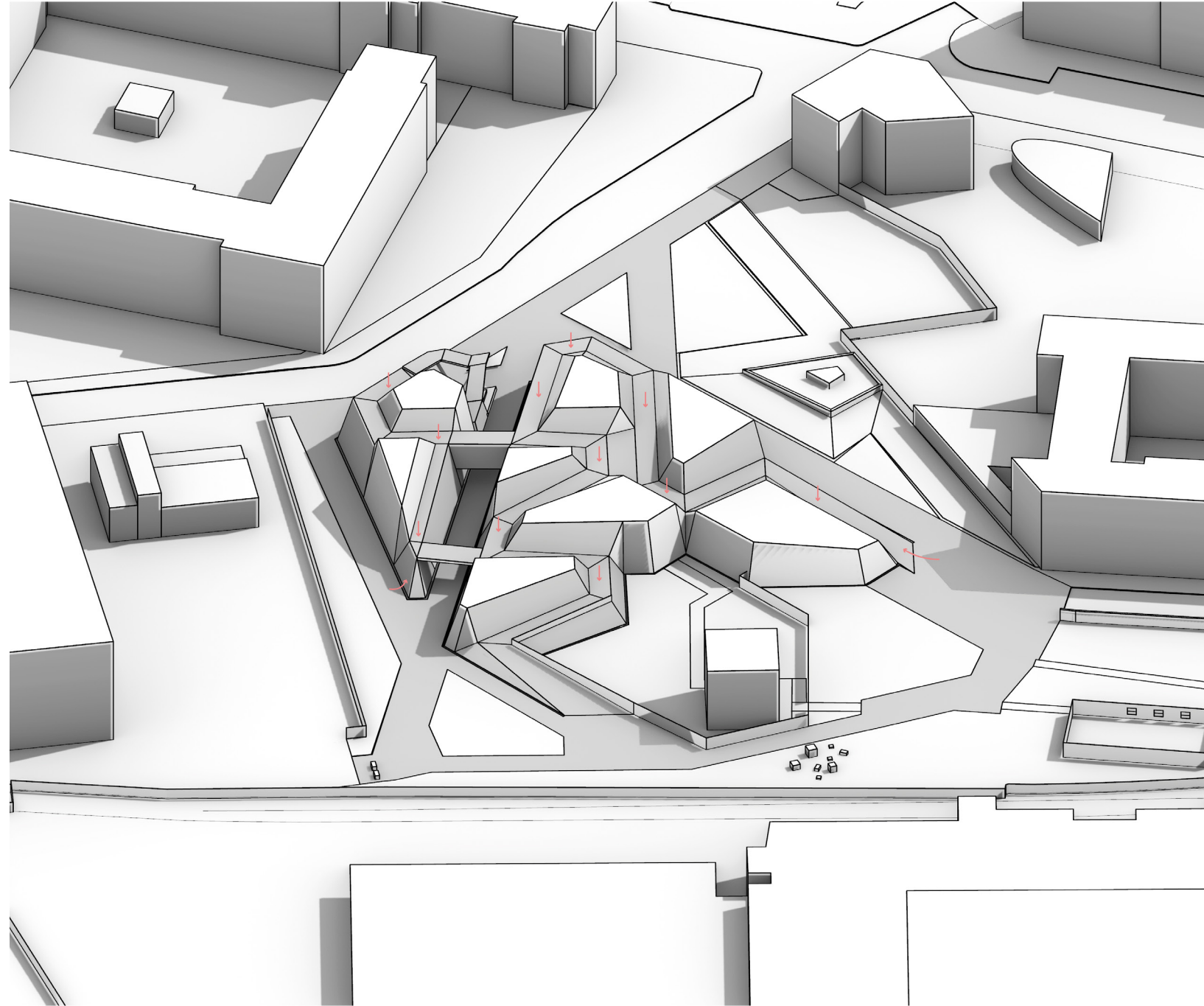
6. *ACCENTUATED COMMUNAL SPACES CREATE MORE PERMEABLE SHAPE*

FORM CONCEPT



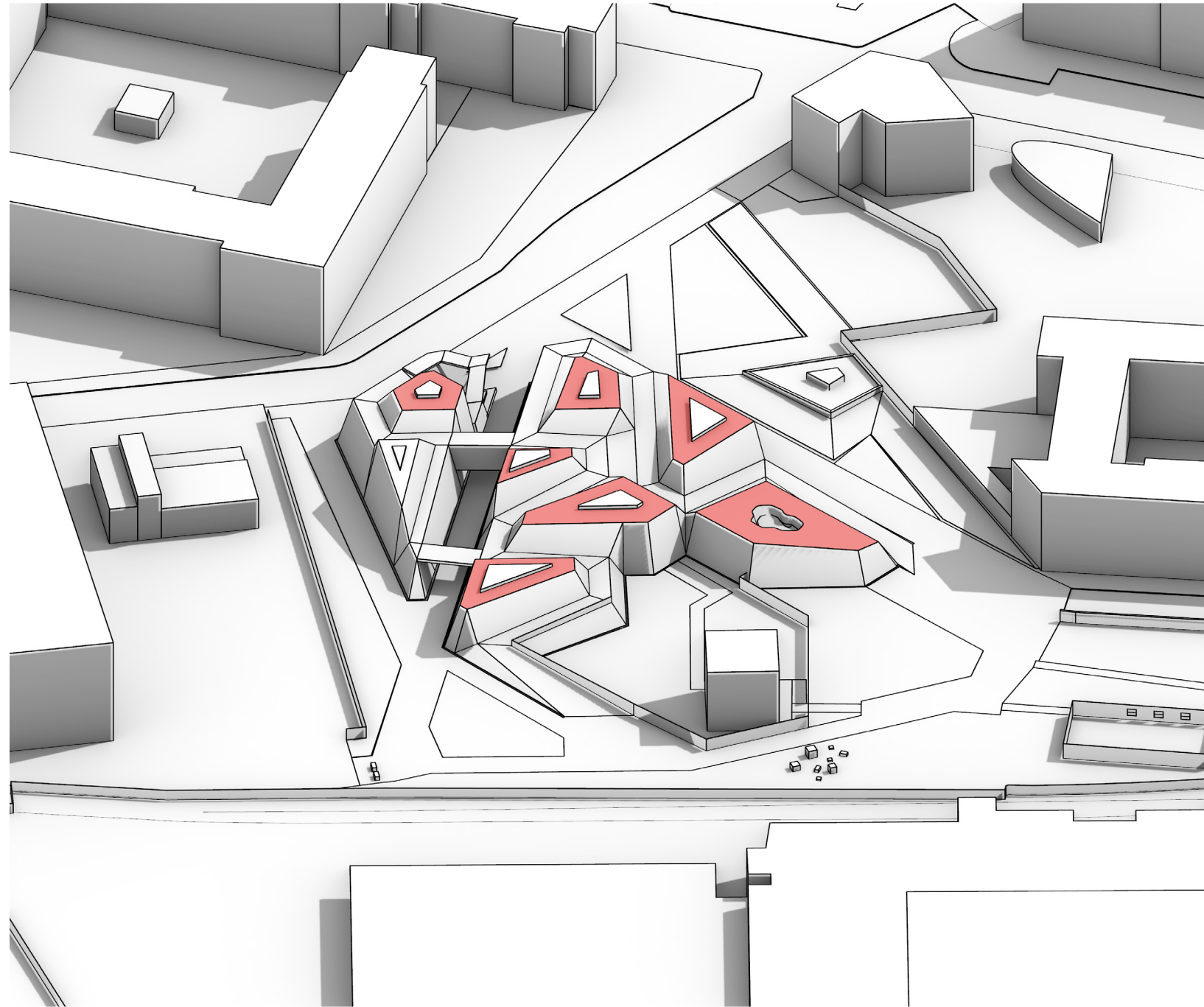
7. DOUBLE OBLIQUE, FIXED X DISTANCE [2.4-3.6-2.4] AND DIFFERENTIATING Z DISTANCE.
EXPERIENCEABLE FACADE WITH VARYING ANGLES

FORM CONCEPT



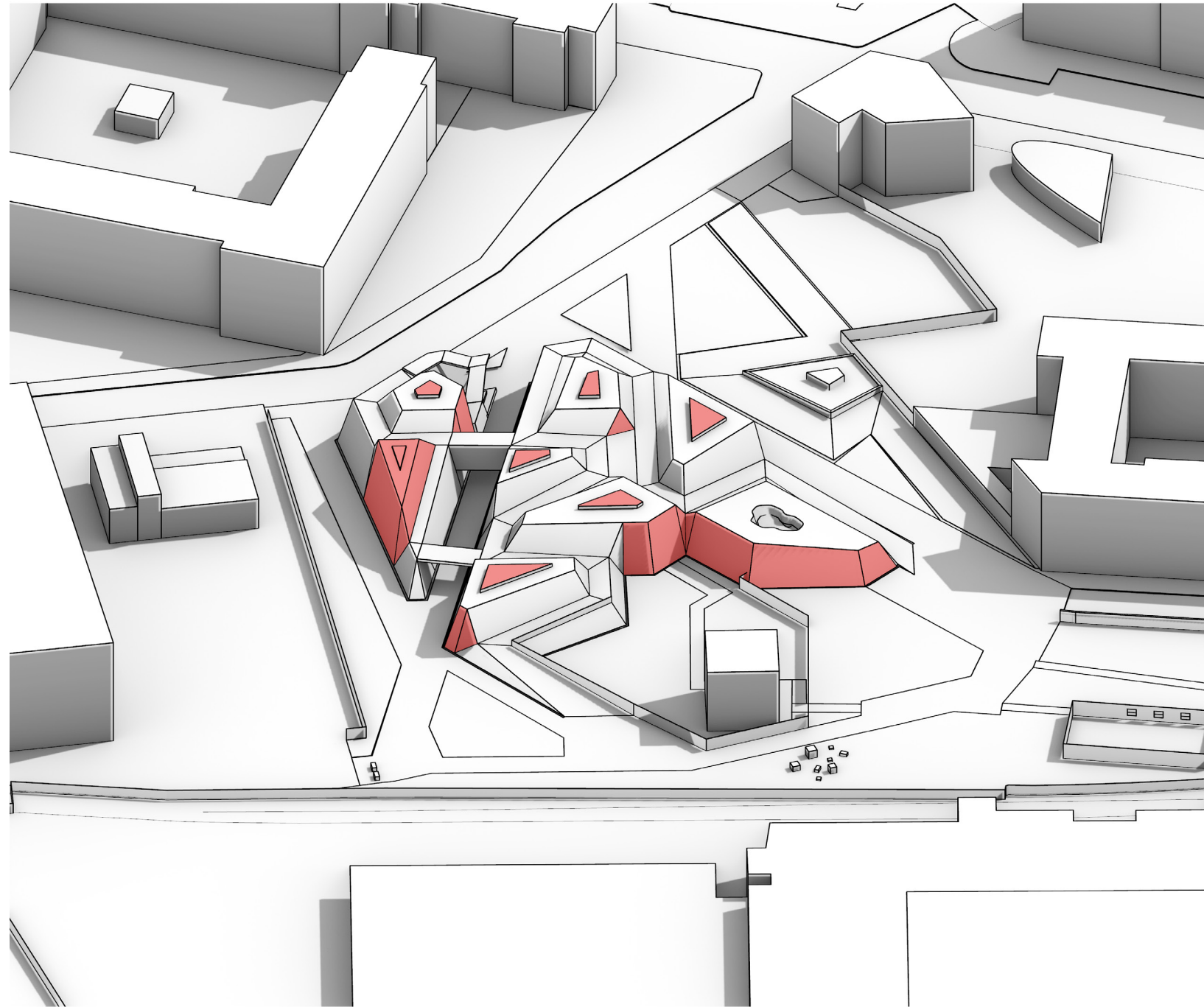
8. BLANKET OF GREY BRICKS EXTENDS STREET ONTO THE ROOF.
STREETSCAPE BECOMES ROOFSCAPE

FORM CONCEPT



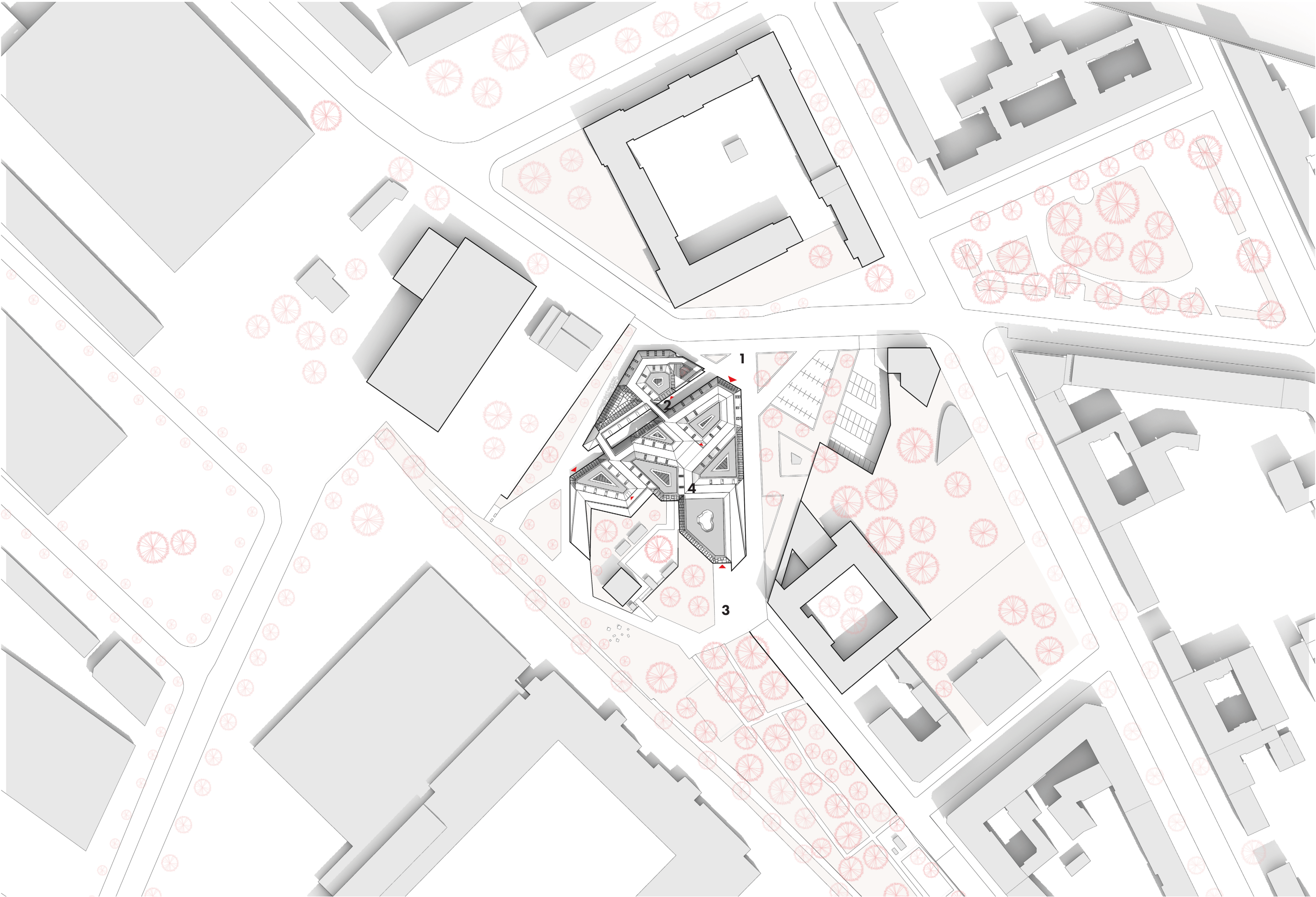
9. COMMUNAL SPACES ON ROOF

FORM CONCEPT



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

SITEPLAN

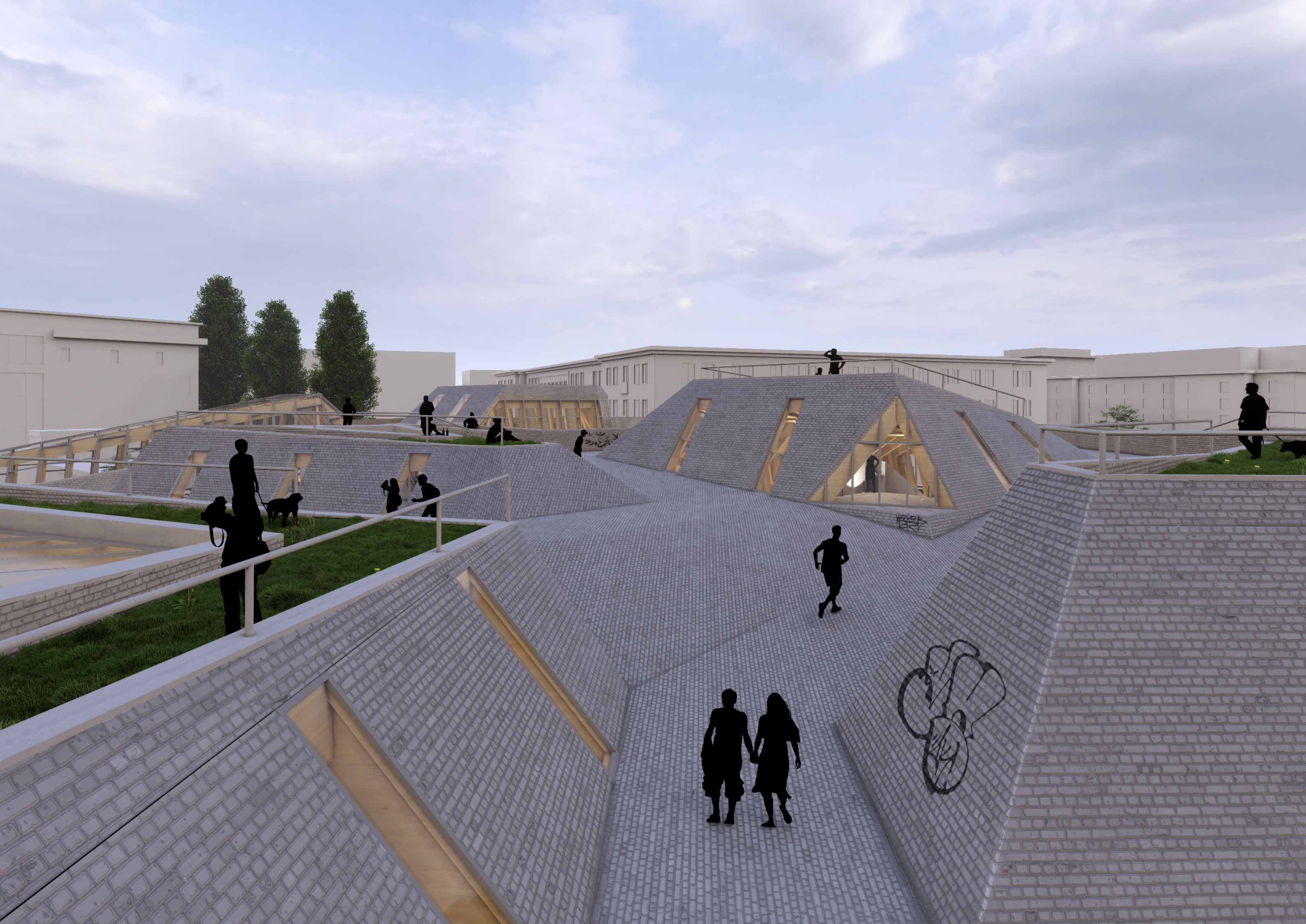




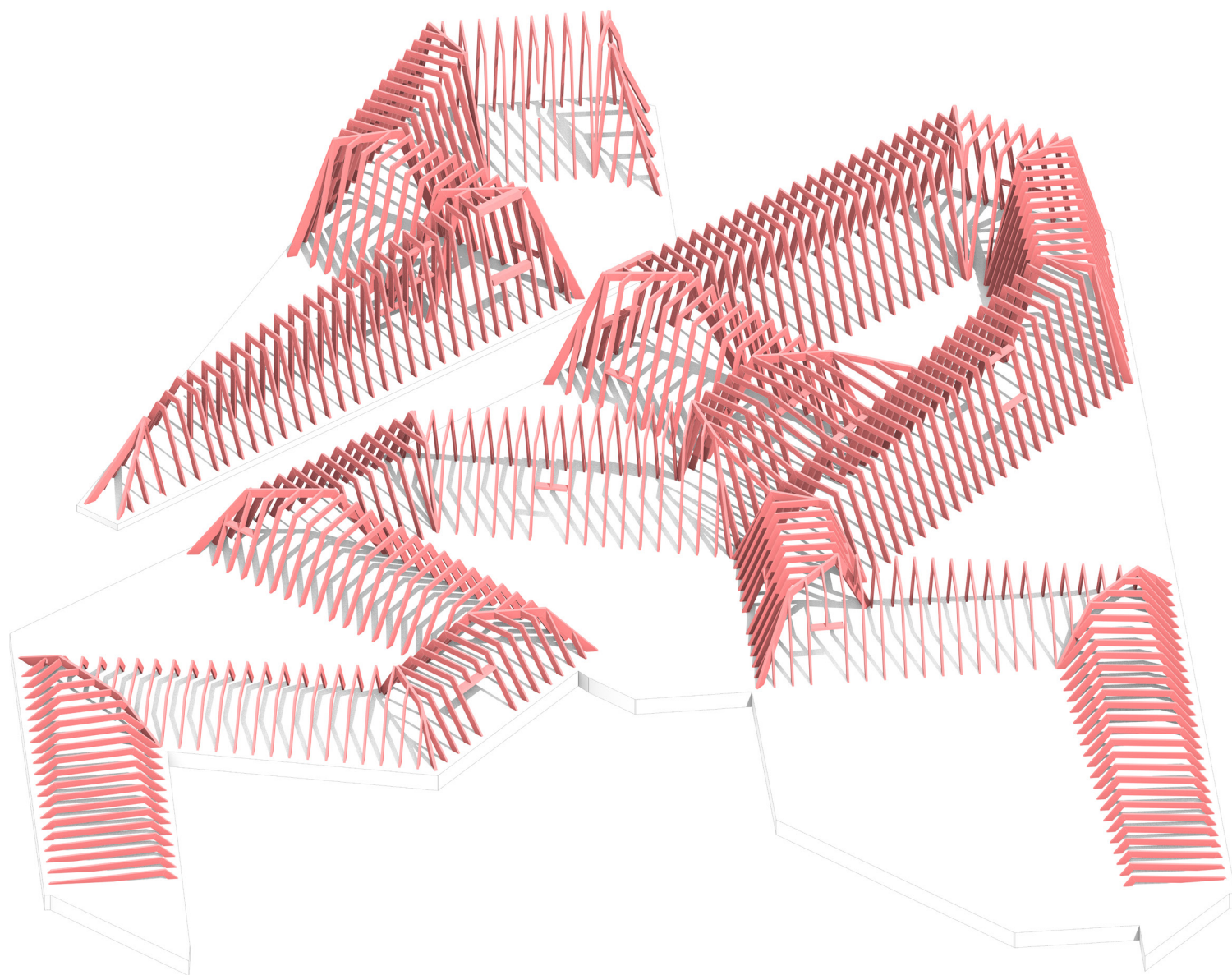






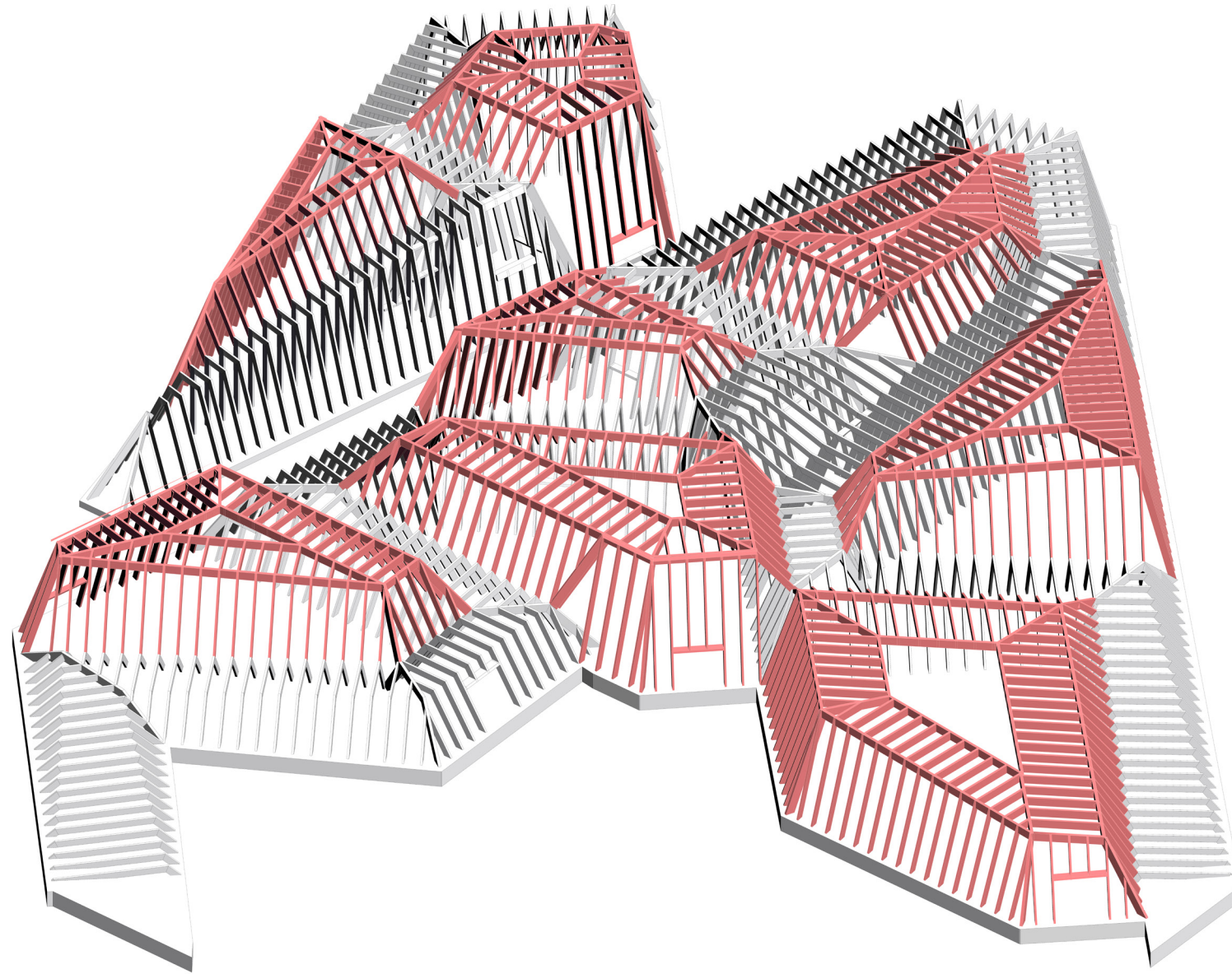


STRUCTURAL CONCEPT



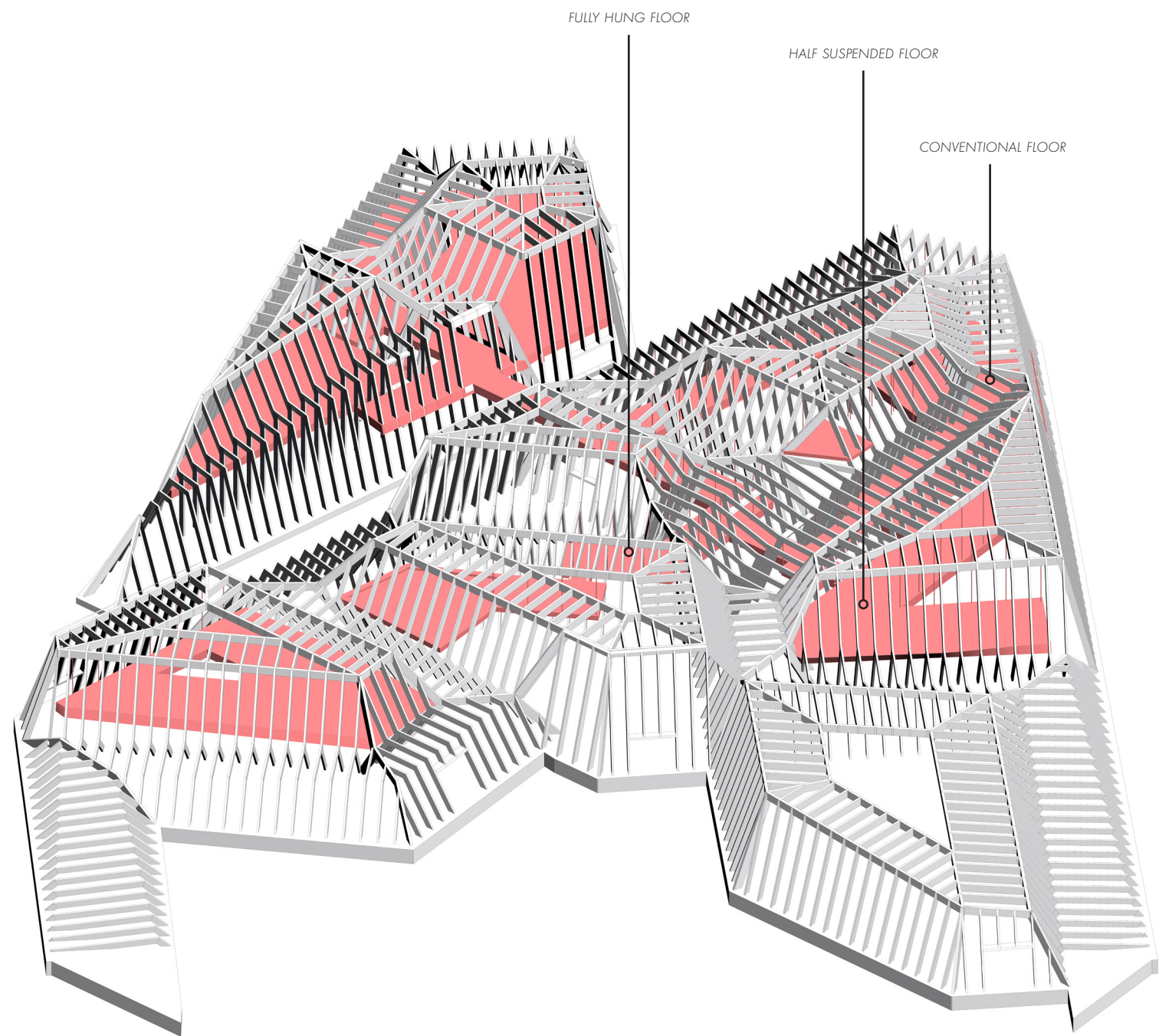
GLULAM STRUCTURE ALONG ZIGZAG STRUCTURES THE BUILDING

STRUCTURAL CONCEPT



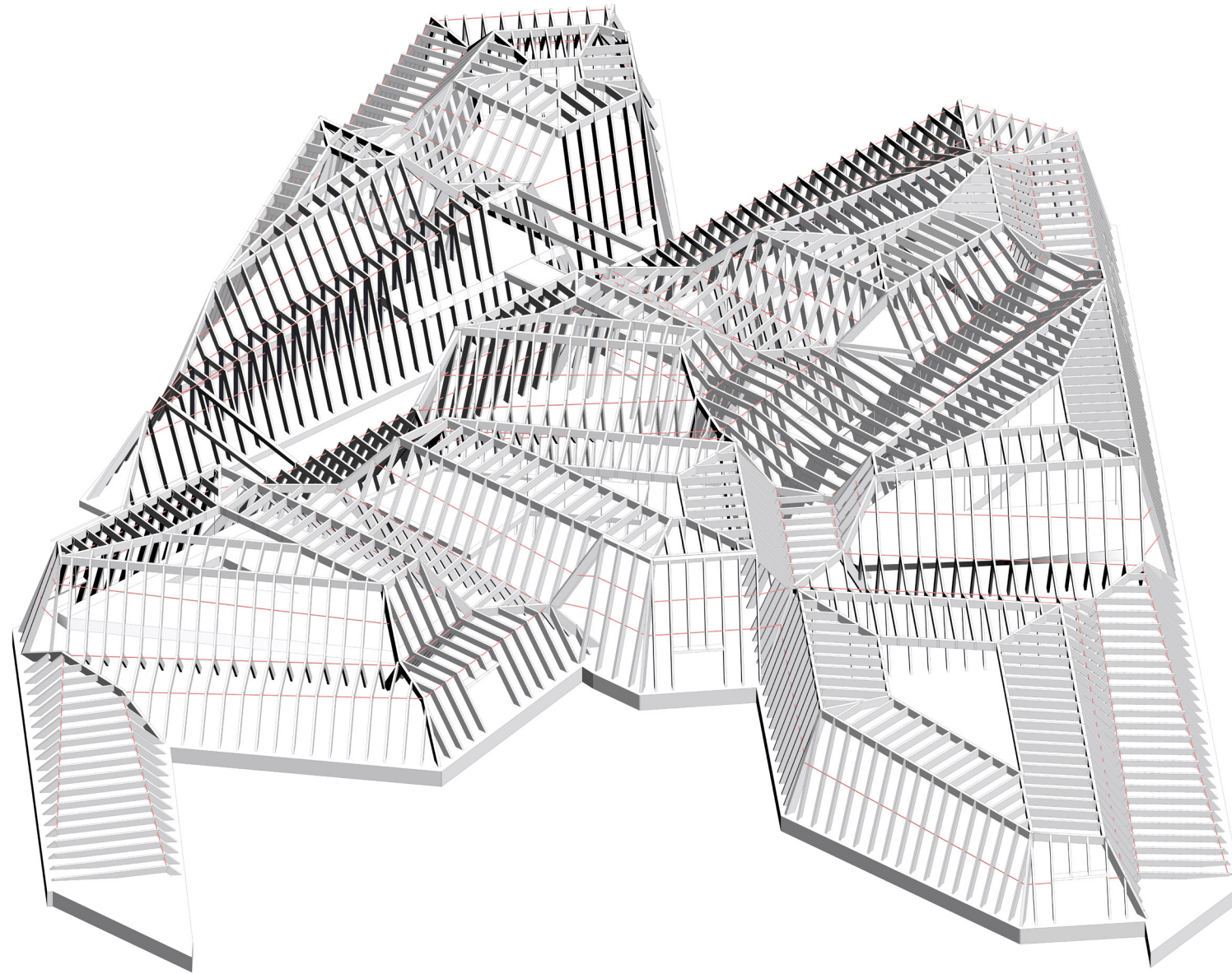
*GLULAM STRUCTURE FOR COMMUNAL SPACES AS EXTENDED PORTALS FROM ZIGZAG COMING TOGETHER IN
MULTIPLE DIRECTIONS*

STRUCTURAL CONCEPT



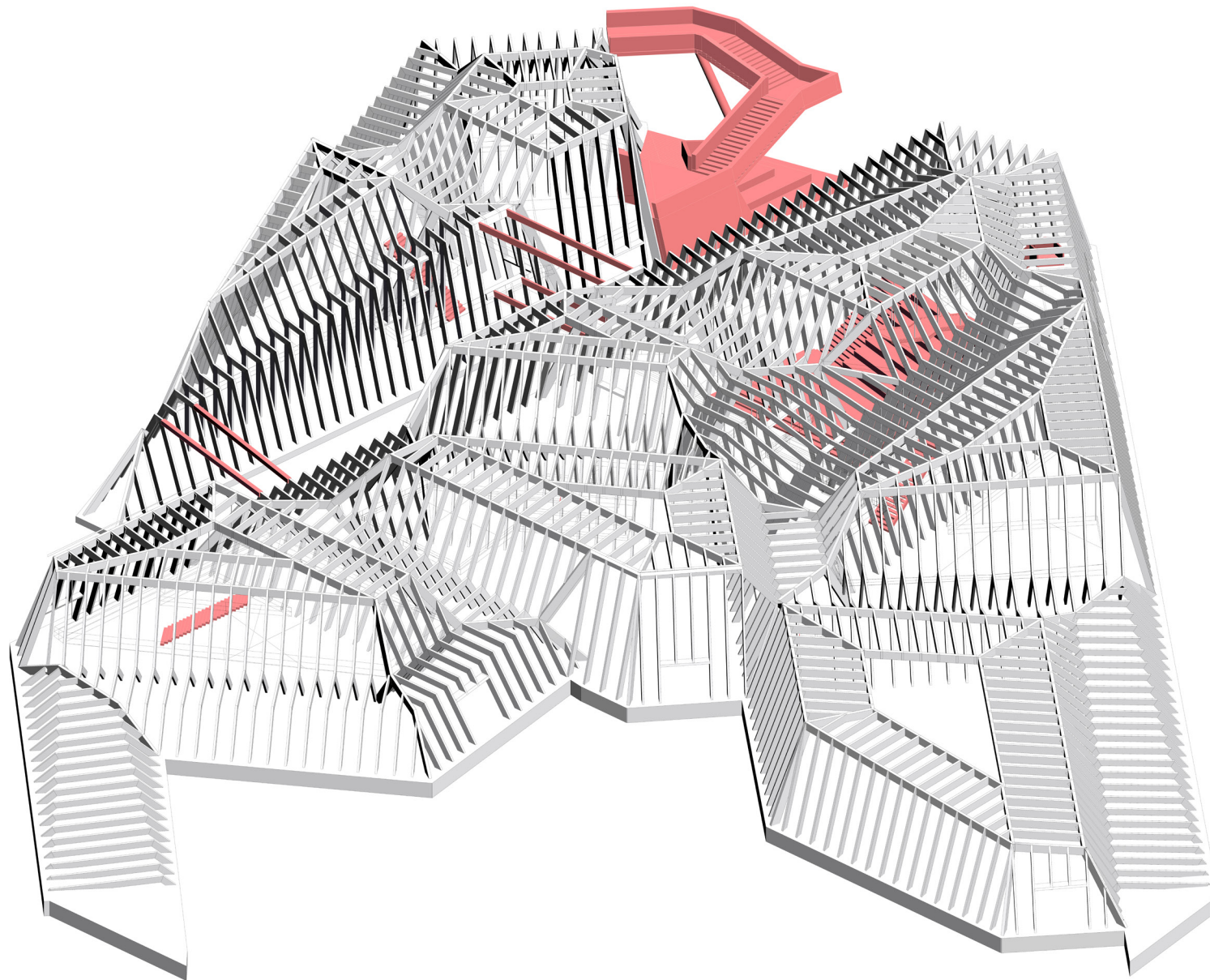
3 TYPES OF APPROACHING THE STRUCTURE OF THE FLOOR, SHAPING THE 1ST LEVEL

STRUCTURAL CONCEPT



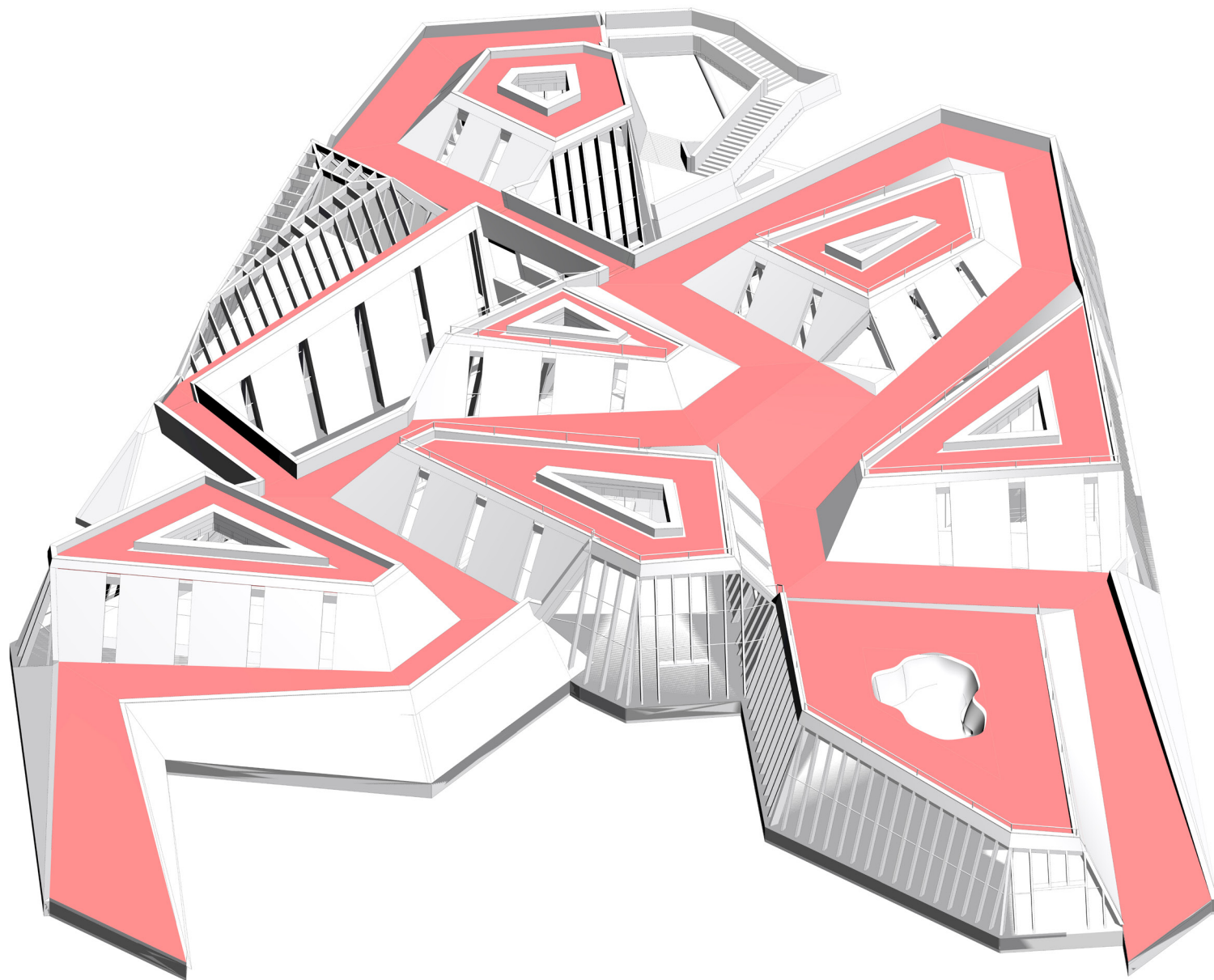
STABILITY IS CREATED THROUGH HIGH REPETITION OF PORTALS IN DIFFERENT DIRECTIONS, COMBINED WITH STEEL HORIZONTAL PIPES. THIS WAY CROSSES COULD BE AVOIDED

STRUCTURAL CONCEPT



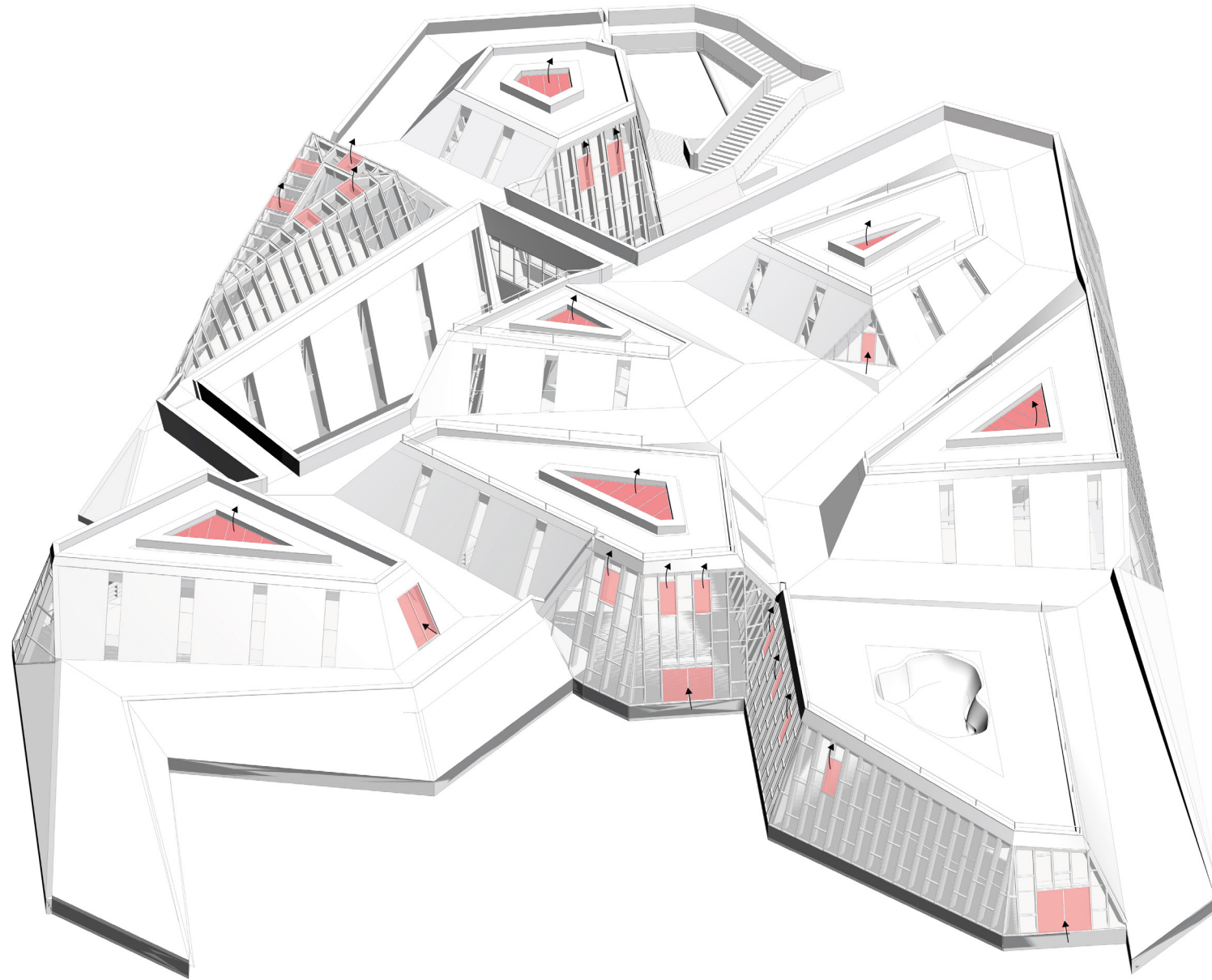
CONNECTIONS BETWEEN BUILDINGS AND LEVELS IN WHICH STAIRS BECOME A DISTINCTIVE ELEMENT

STRUCTURAL CONCEPT



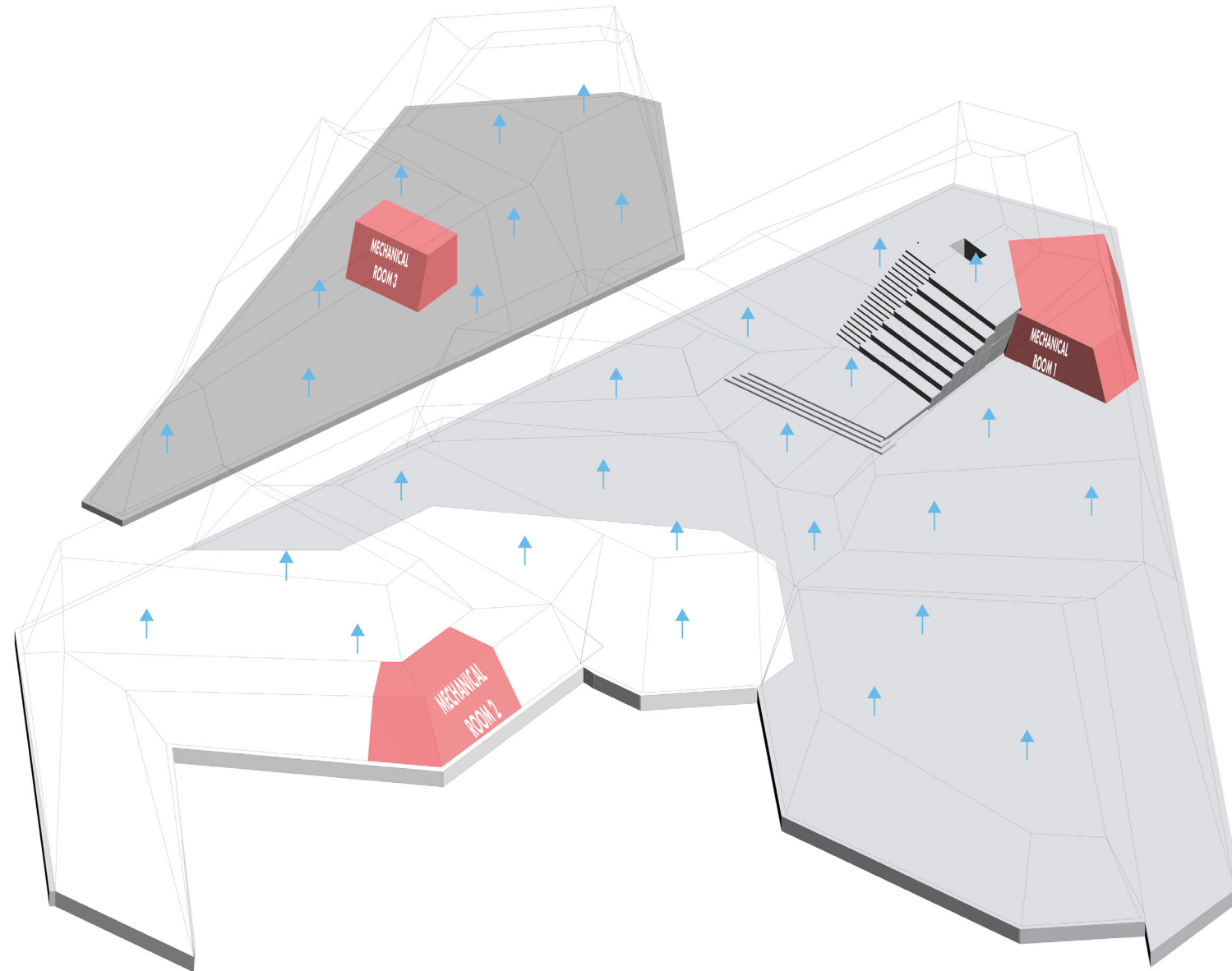
CLT WALLS AND ROOF PROVIDE EXTRA STABILITY

CLIMATE CONCEPT



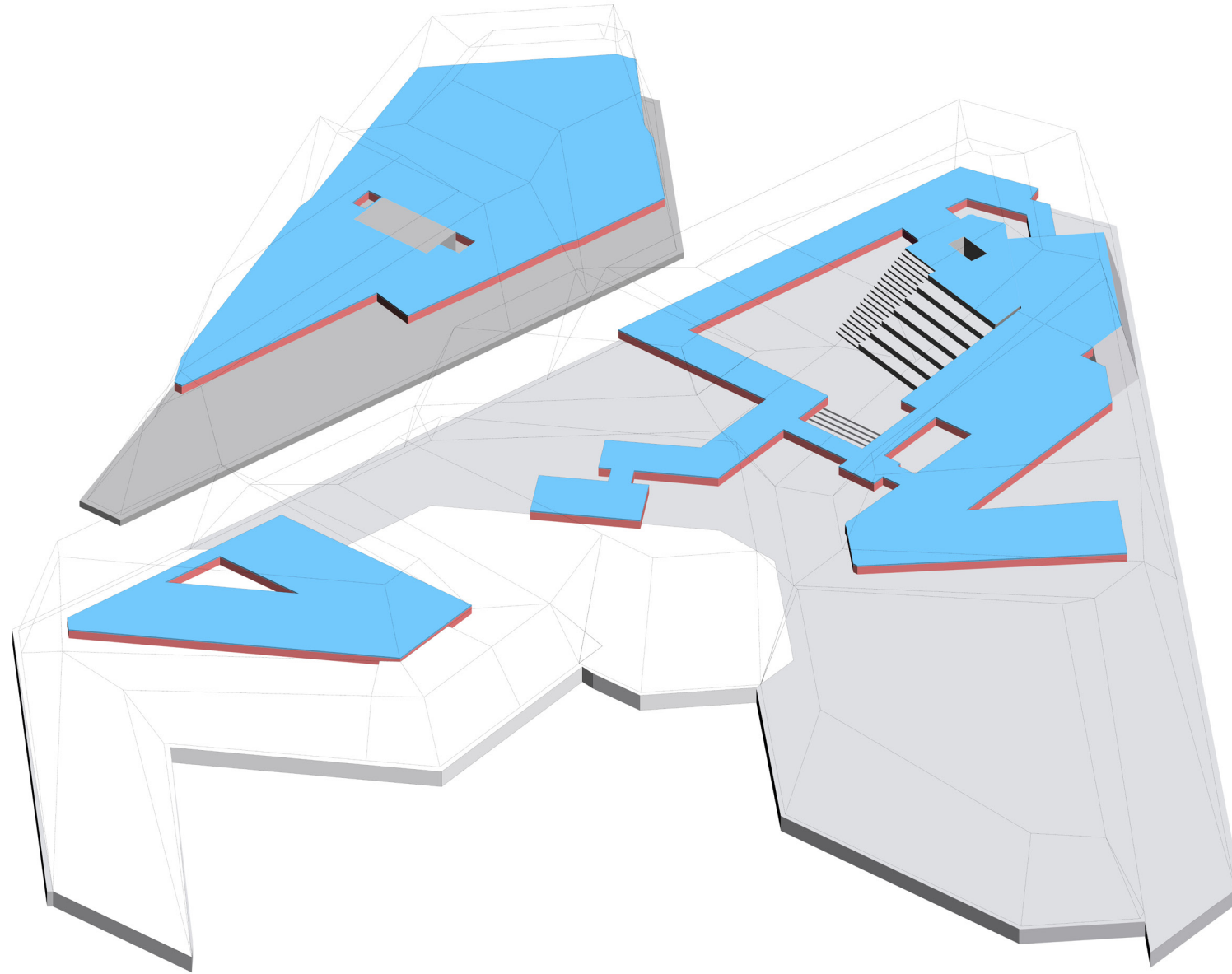
SKYLIGHTS AND OPENINGS IN GLASS FACADES PROVIDE OPPURTUNITY FOR NATURAL VENTILATION

CLIMATE CONCEPT



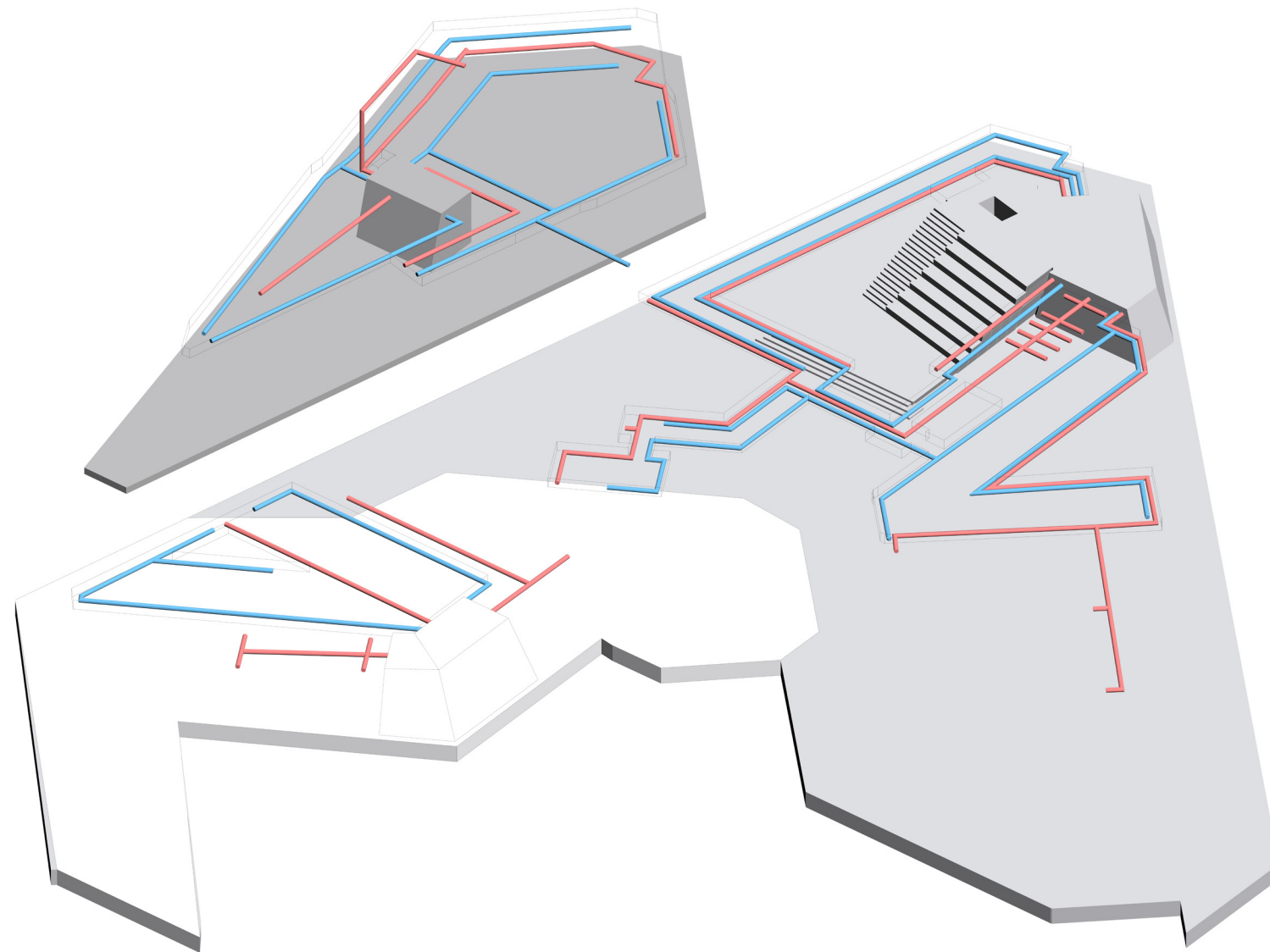
AIR SUPPLY FROM GROUND FLOOR TO MAXIMIZE STACK EFFECT WITH THE SKYLIGHTS. A GROUND BASED VENTILATION SYSTEM WILL BE USED, BACKED UP BY 3 TECHNICAL SPACES

CLIMATE CONCEPT



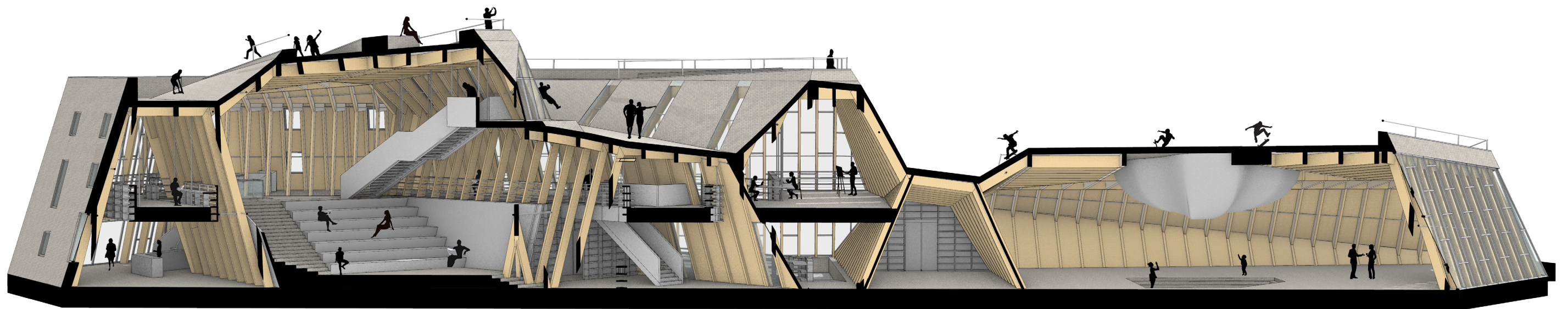
TO KEEP PORTAL STRUCTURE FREE FROM VISIBLE VENTILATION PIPES, THE HANGING FLOORS WILL FUNCTION AS
AIRSUPPLY AND AIR EXHAUST

CLIMATE CONCEPT

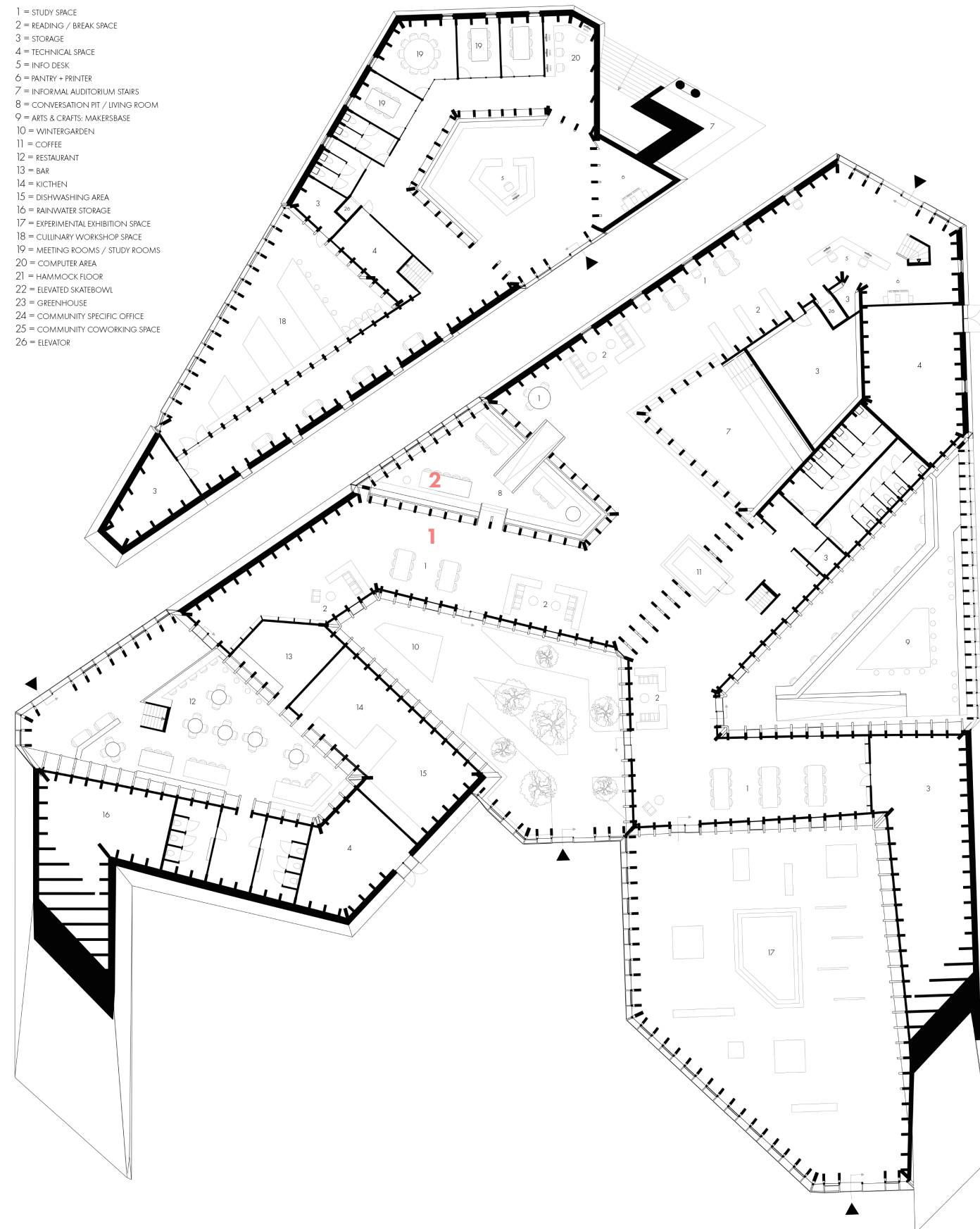


VENTILATION PIPES DON'T CROSS SO THEY CAN STAY HIDDEN IN THE FLOORS

ARCHITECTURE AS HABITABLE URBAN LANDSCAPE



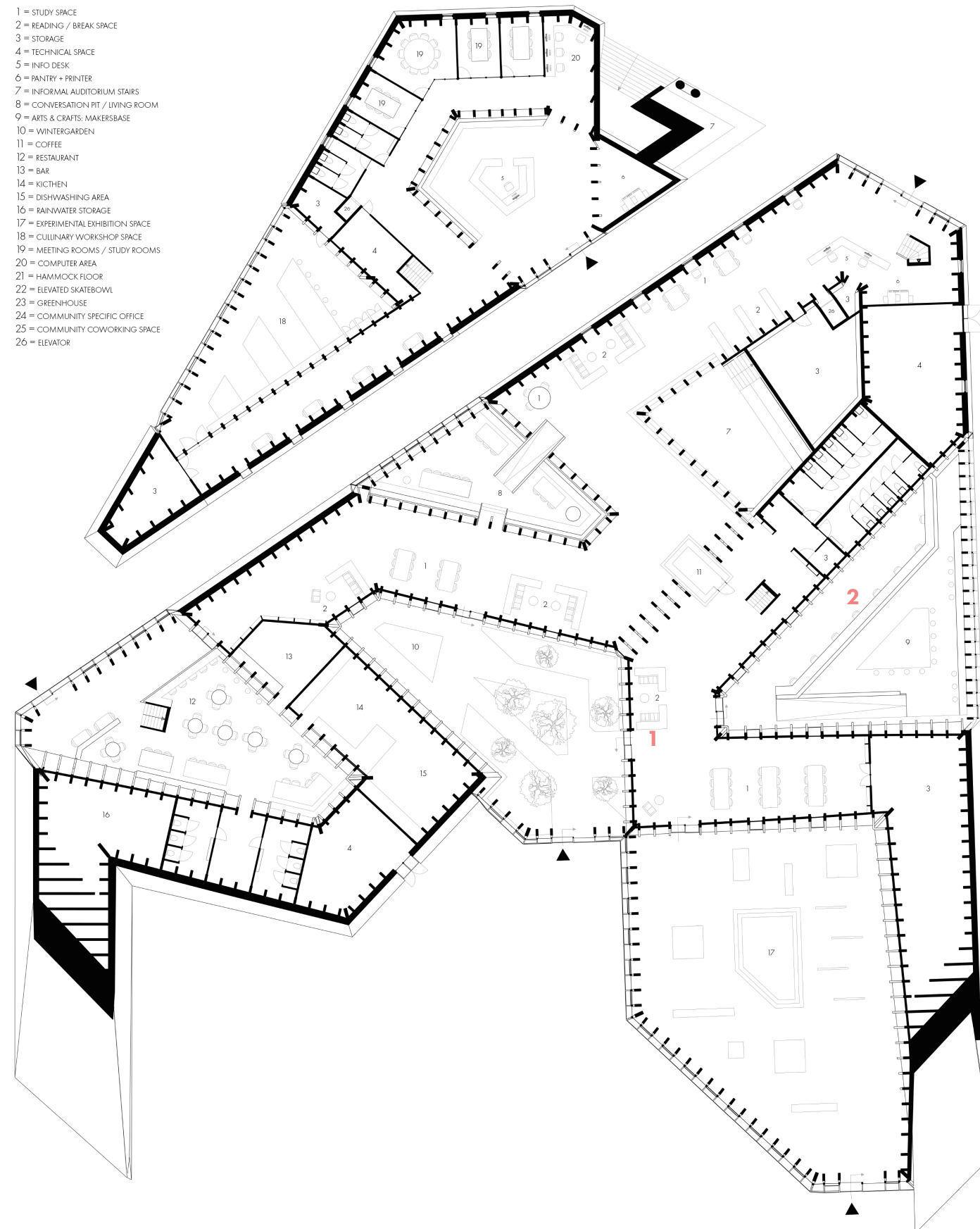
GROUND FLOOR

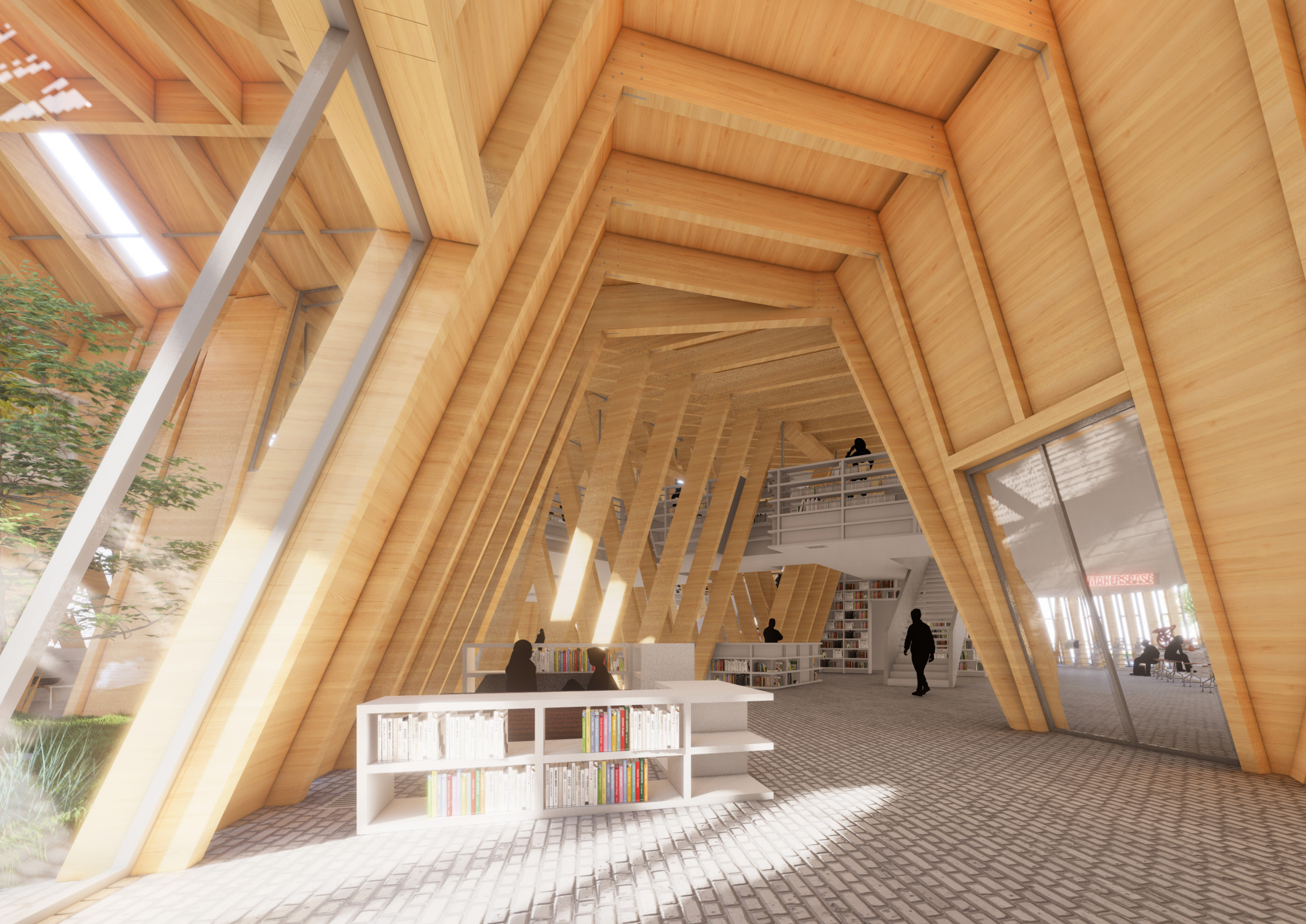




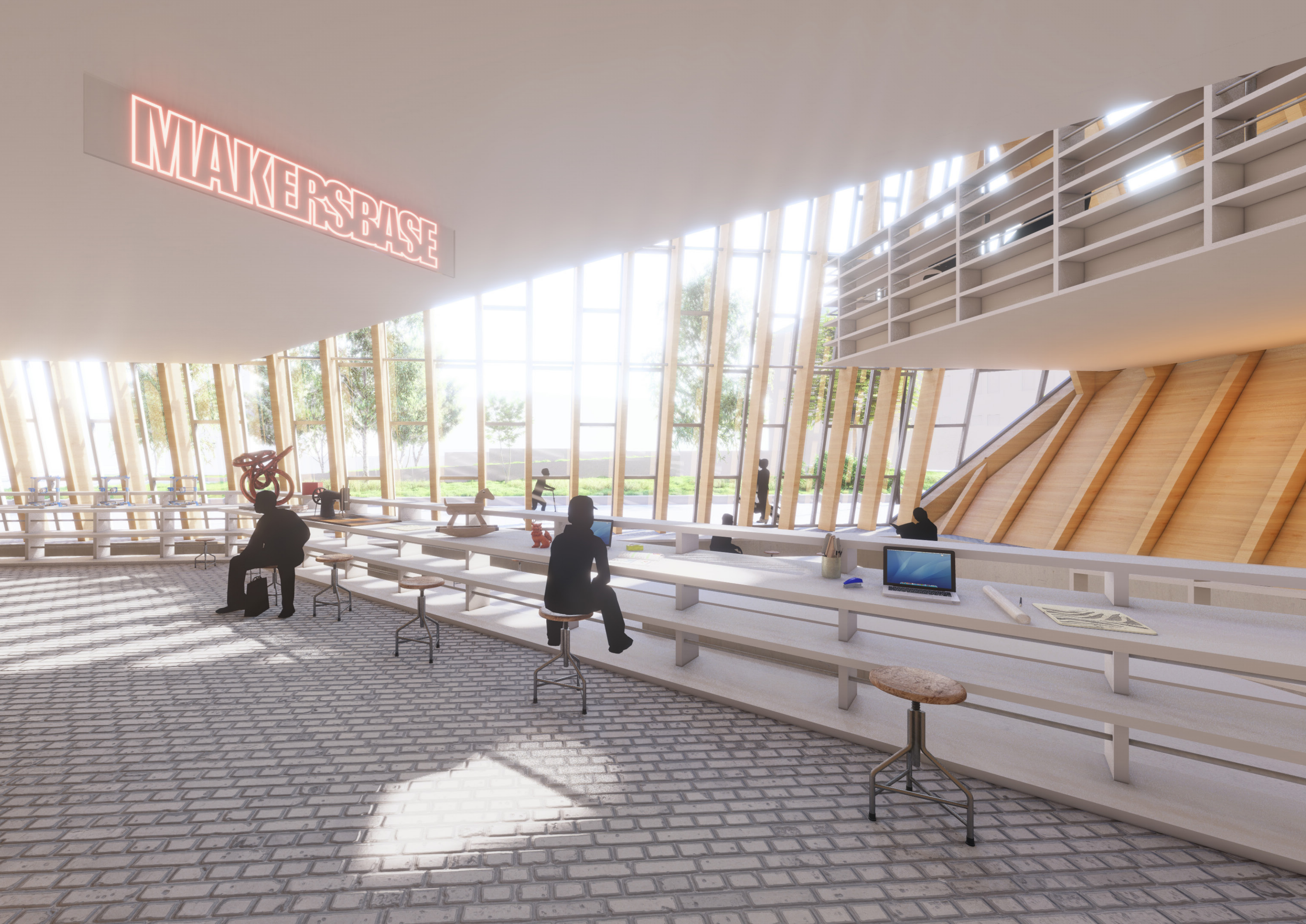


GROUND FLOOR

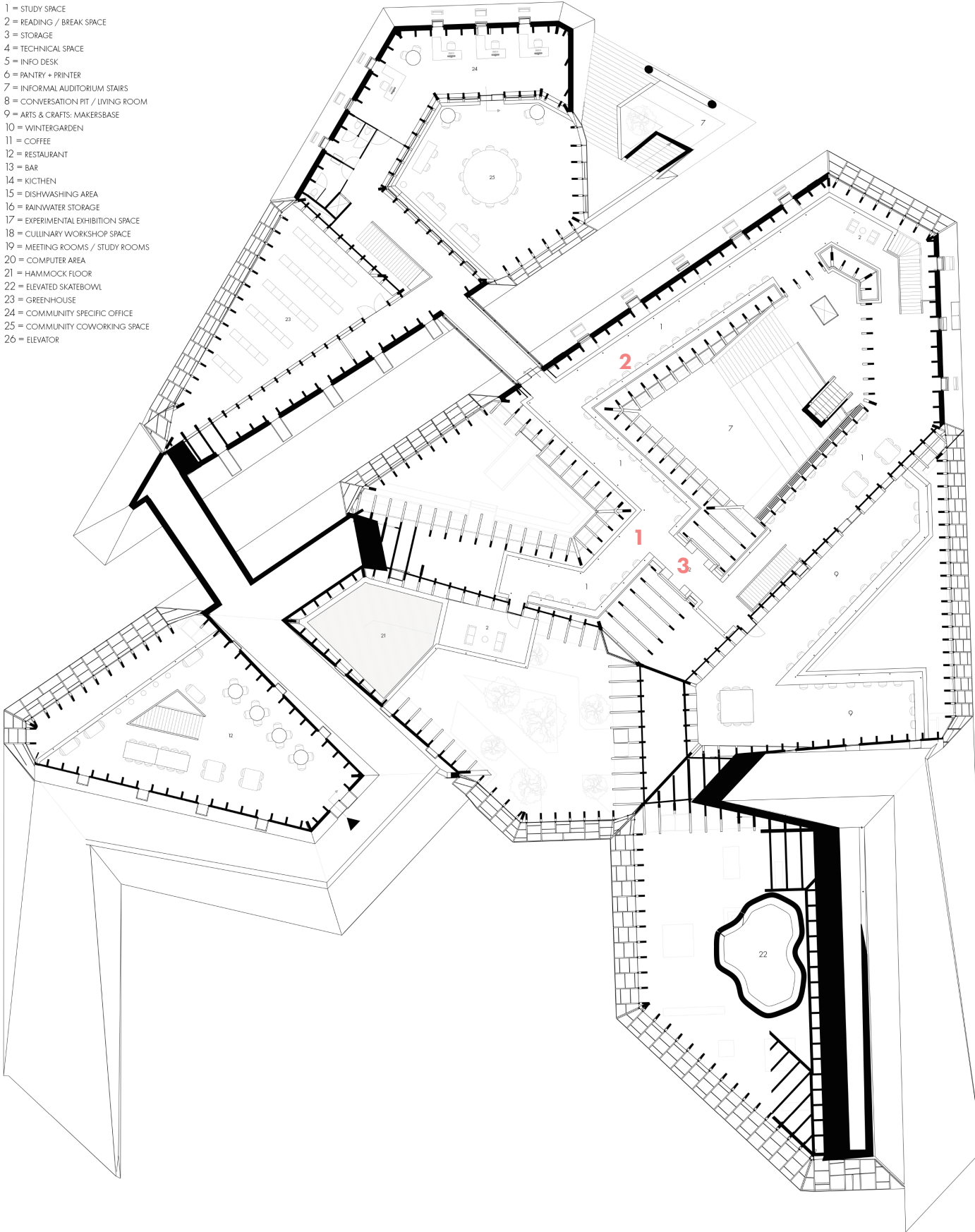




MAKERSPACE

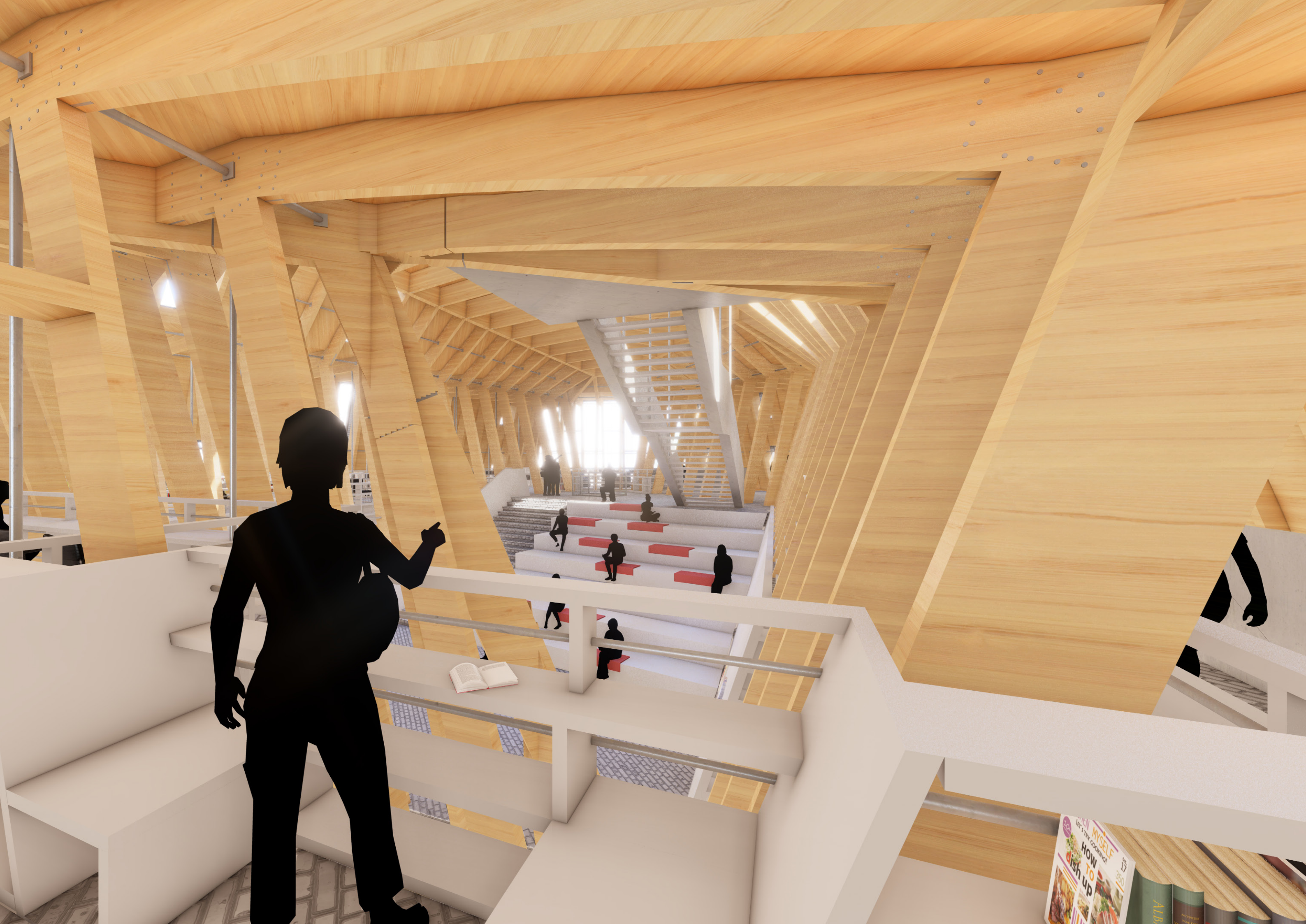


FIRST FLOOR



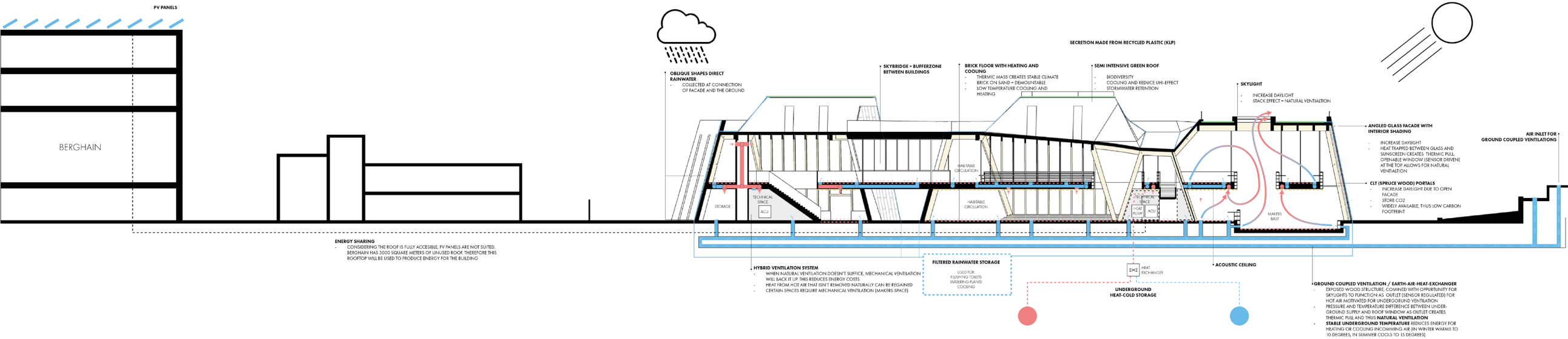




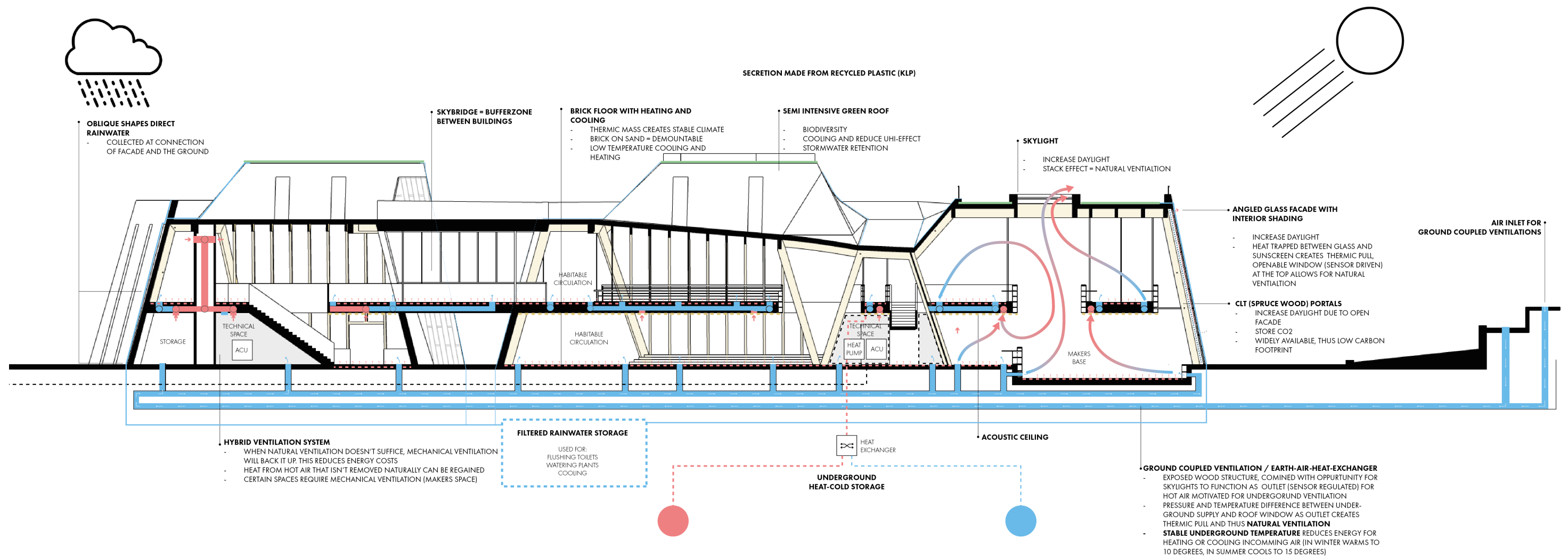




CLIMATE SECTION



CLIMATE SECTION



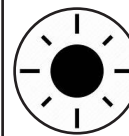
**STACK EFFECT PROVIDES NATURAL VENTILATION
THROUGH SKYLIGHT AND GROUND BASED VENTILATION**



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



WASTE BASED BRICKS FROM STONECYCLING:

- BRICKS PRODUCED FROM 60% WASTE
- 91 KG/M² UPCYCLE
- CO₂ COMPENSATED PRODUCTION

964145 KG WASTE UPCYCLED



BRICK BIRDHOUSE IN MASONRY



RAINWATER COLLECTION



FLOOR HEATING & COOLING

- LOW TEMPERATURE
- COMBINED WITH HEAT-COLD STORAGE



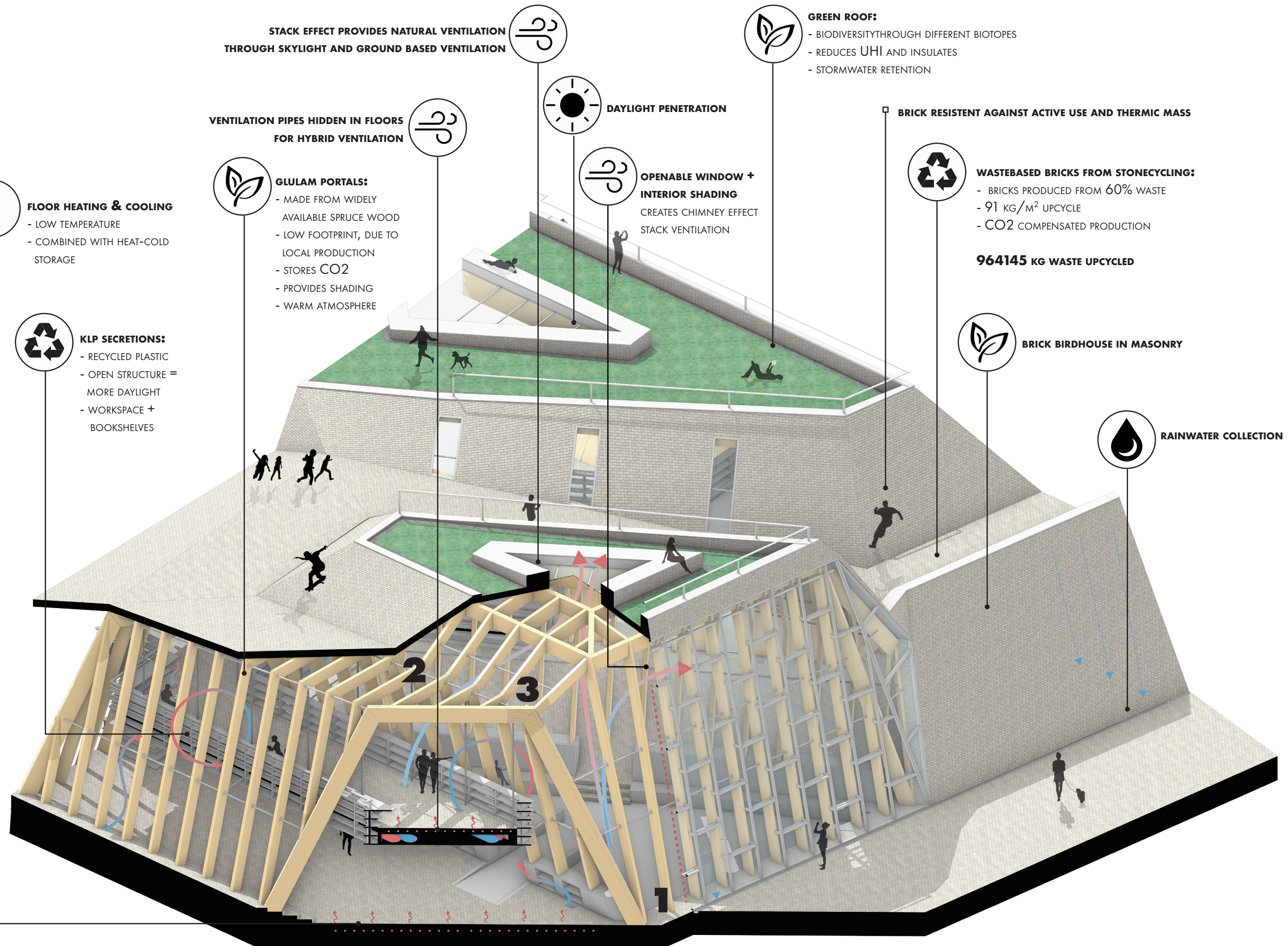
KLP SECRETIONS:

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

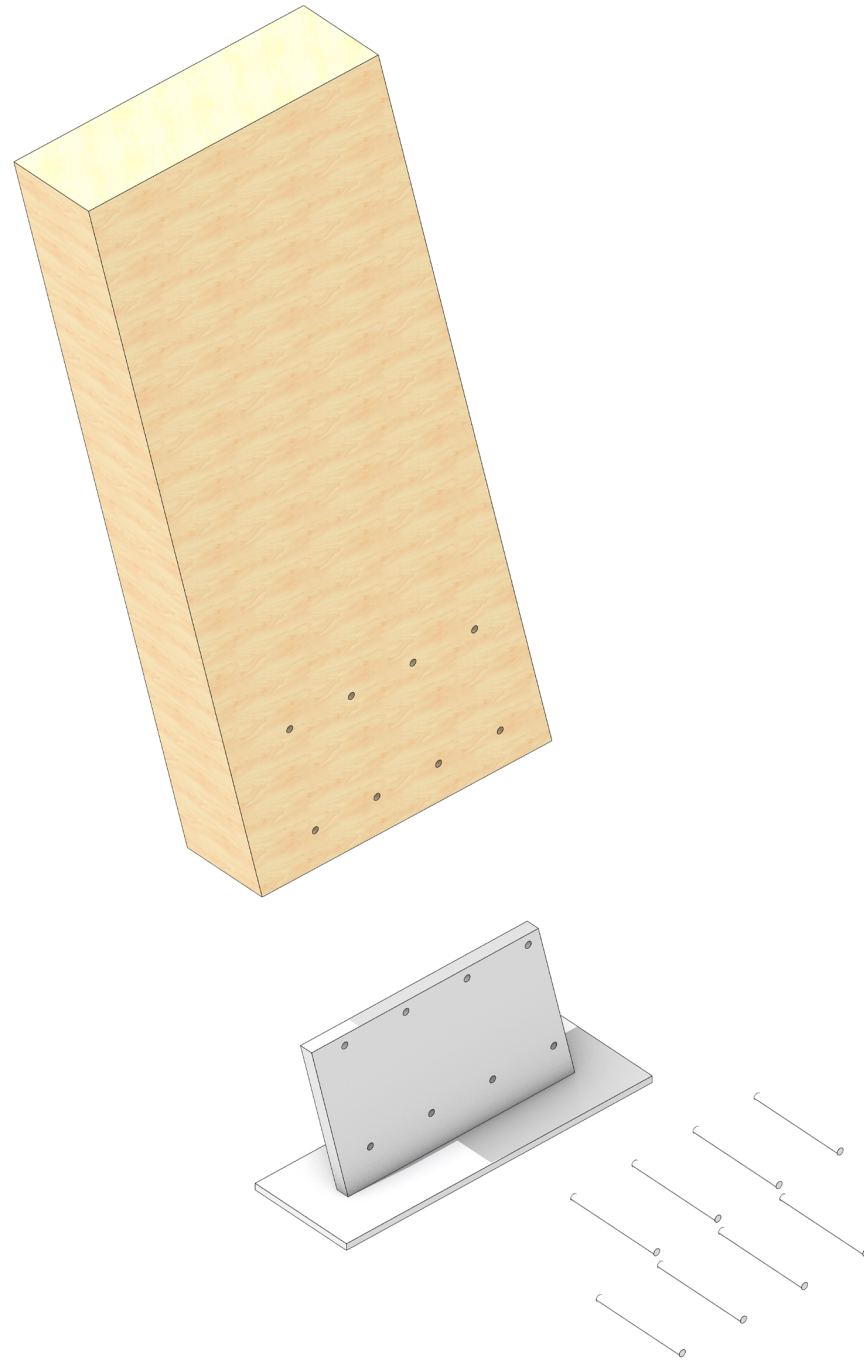


GLULAM PORTALS:

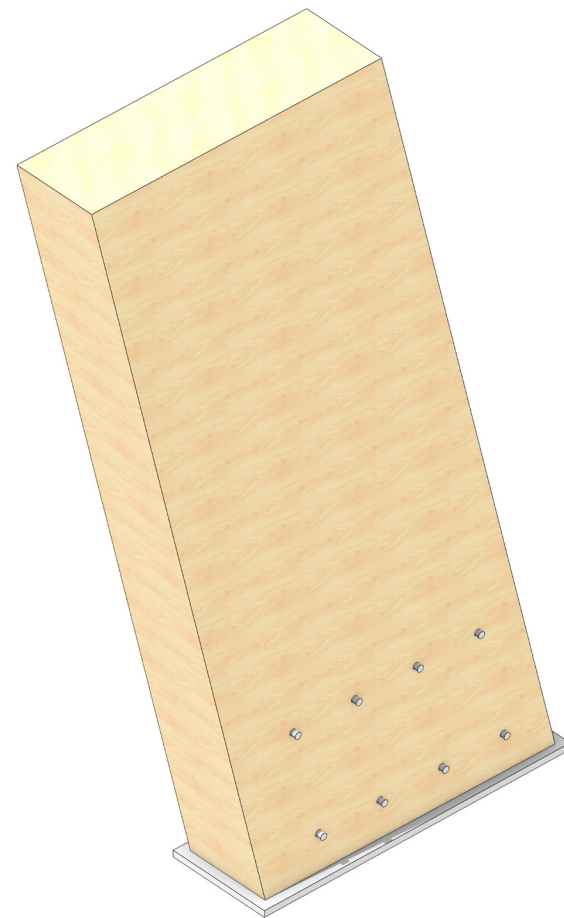
- MADE FROM WIDELY AVAILABLE SPRUCE WOOD
- LOW FOOTPRINT, DUE TO LOCAL PRODUCTION
- STORES CO₂
- PROVIDES SHADING
- WARM ATMOSPHERE



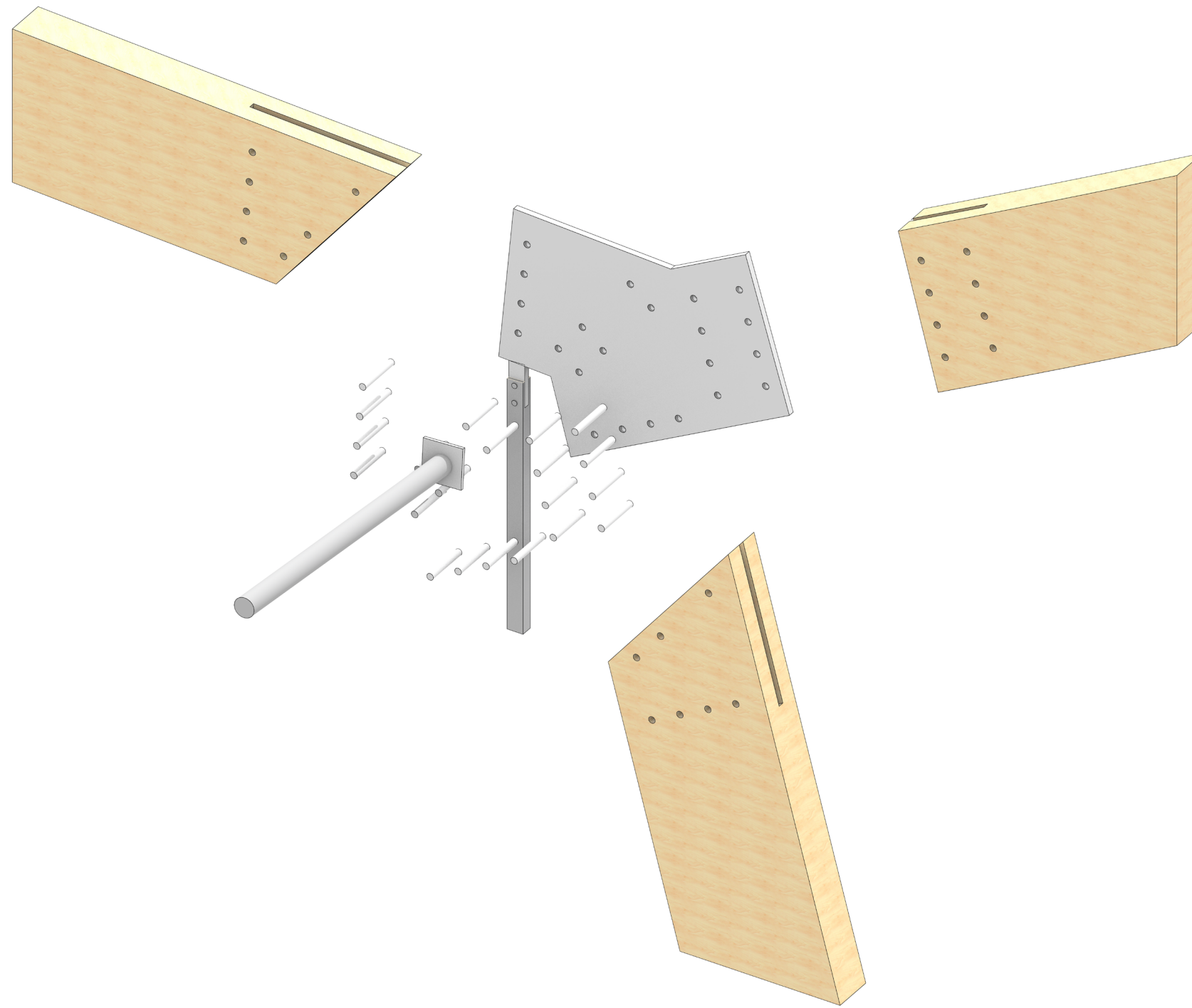
STRUCTURAL JOINT 1: SINGLE CUT, SINGLE JOINT



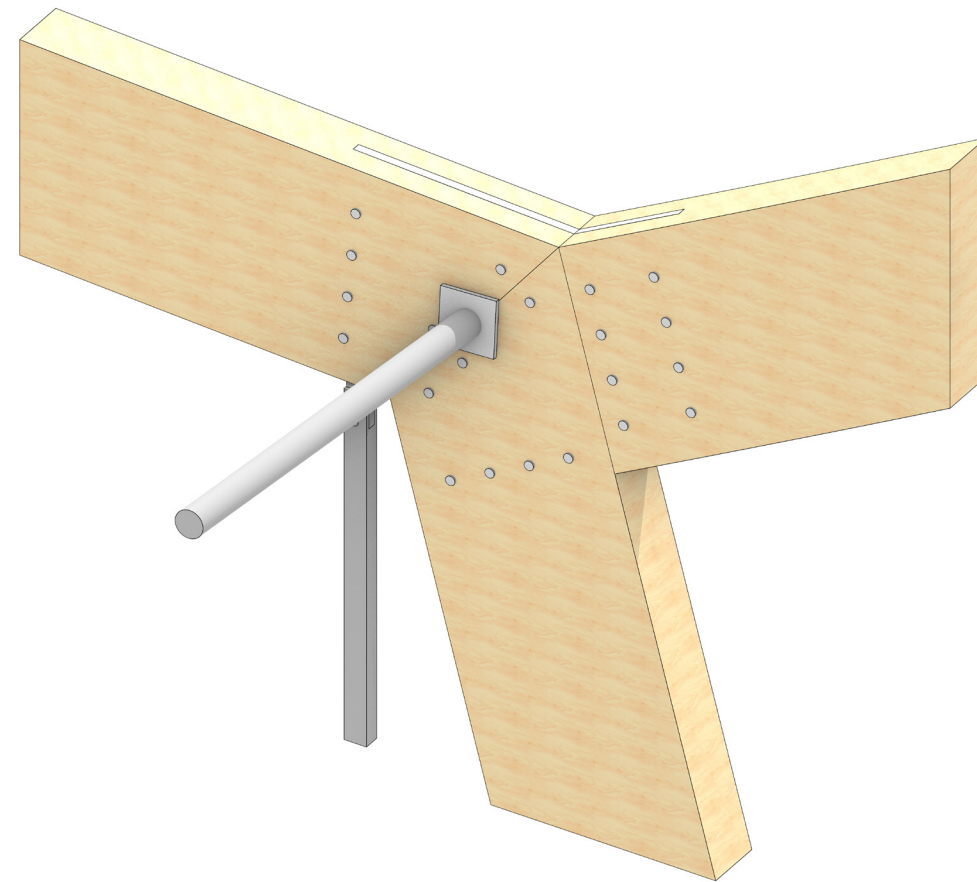
STRUCTURAL JOINT 1: SINGLE JOINT



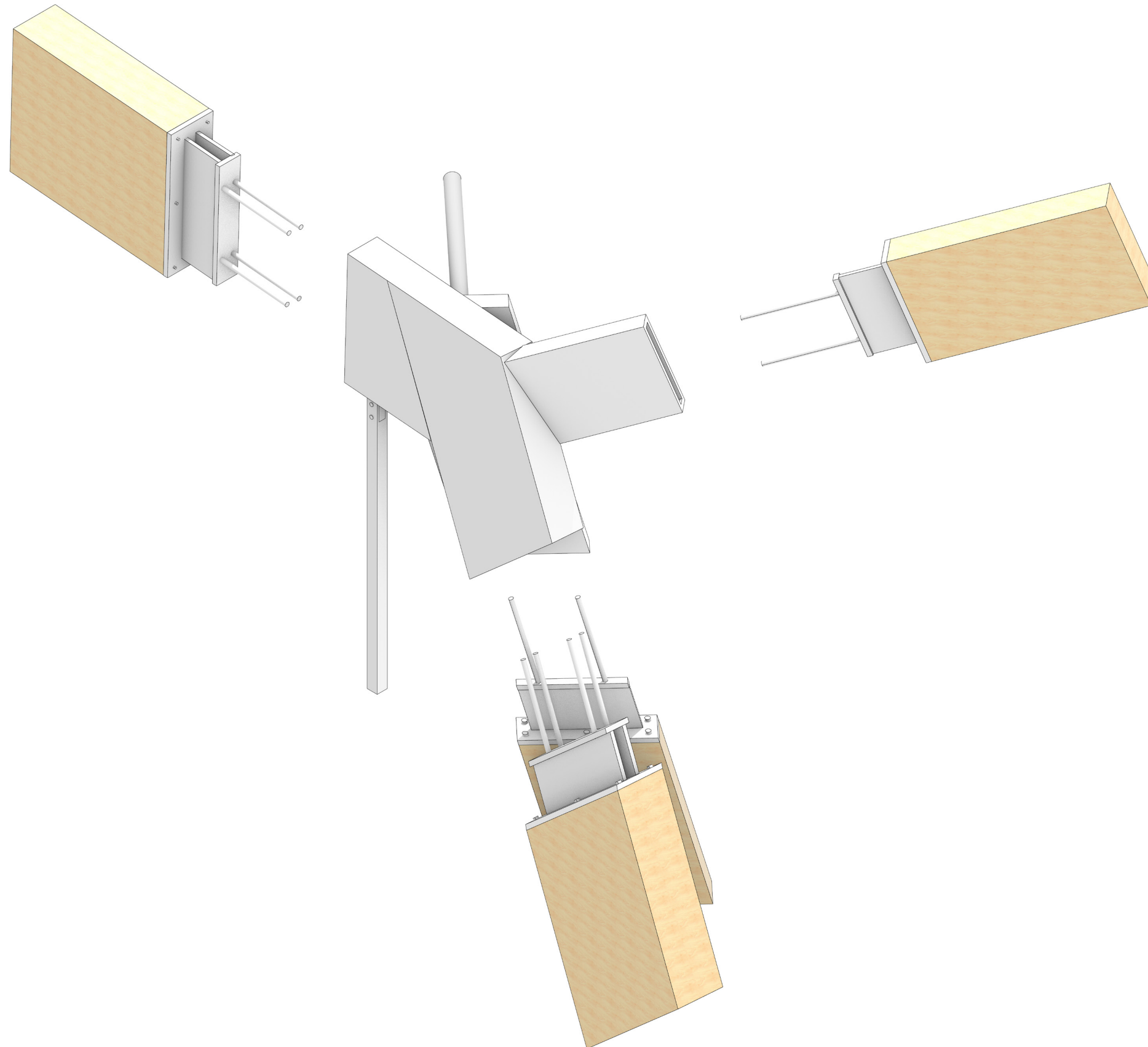
STRUCTURAL JOINT 2: DOUBLE JOINT



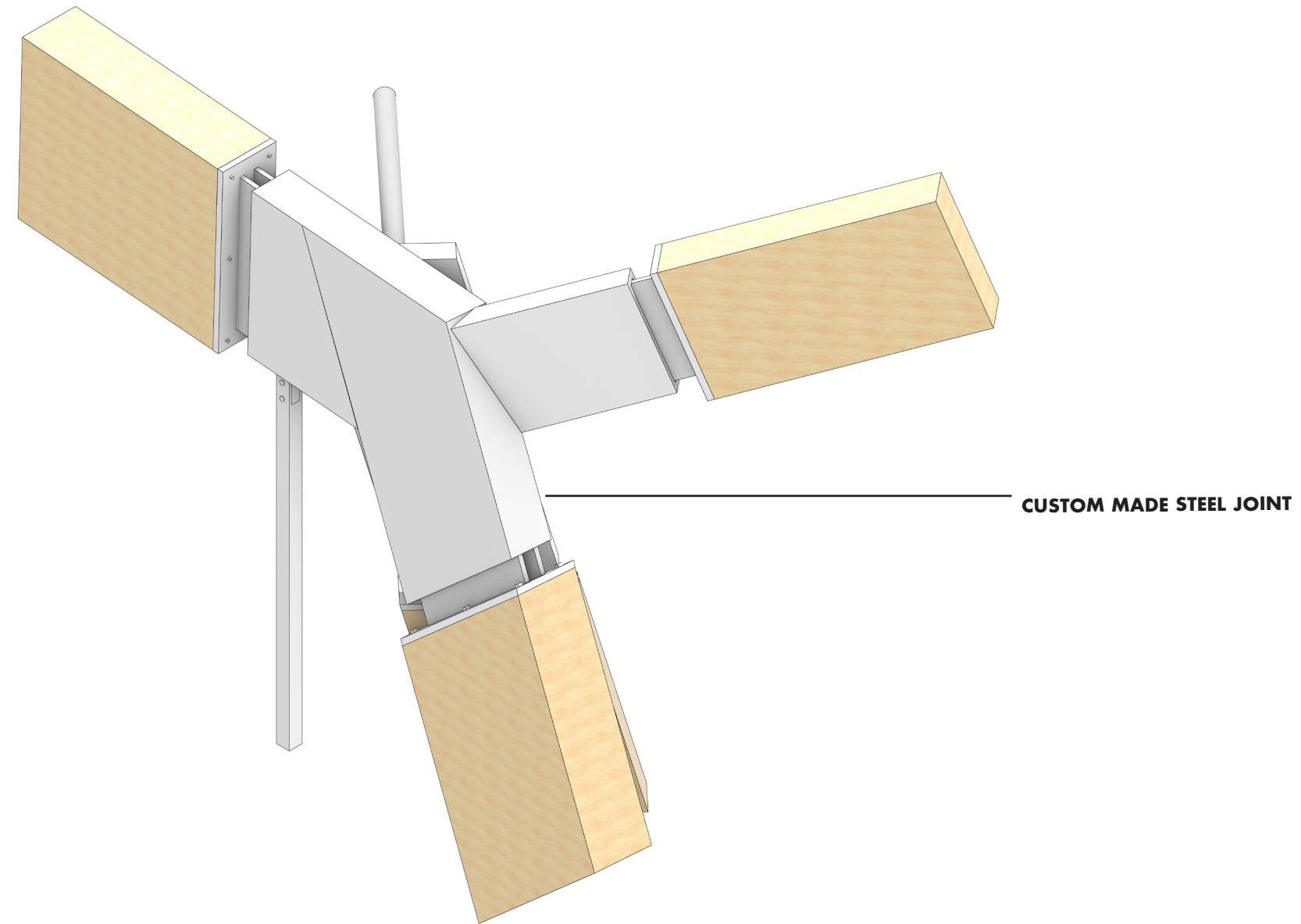
STRUCTURAL JOINT 2



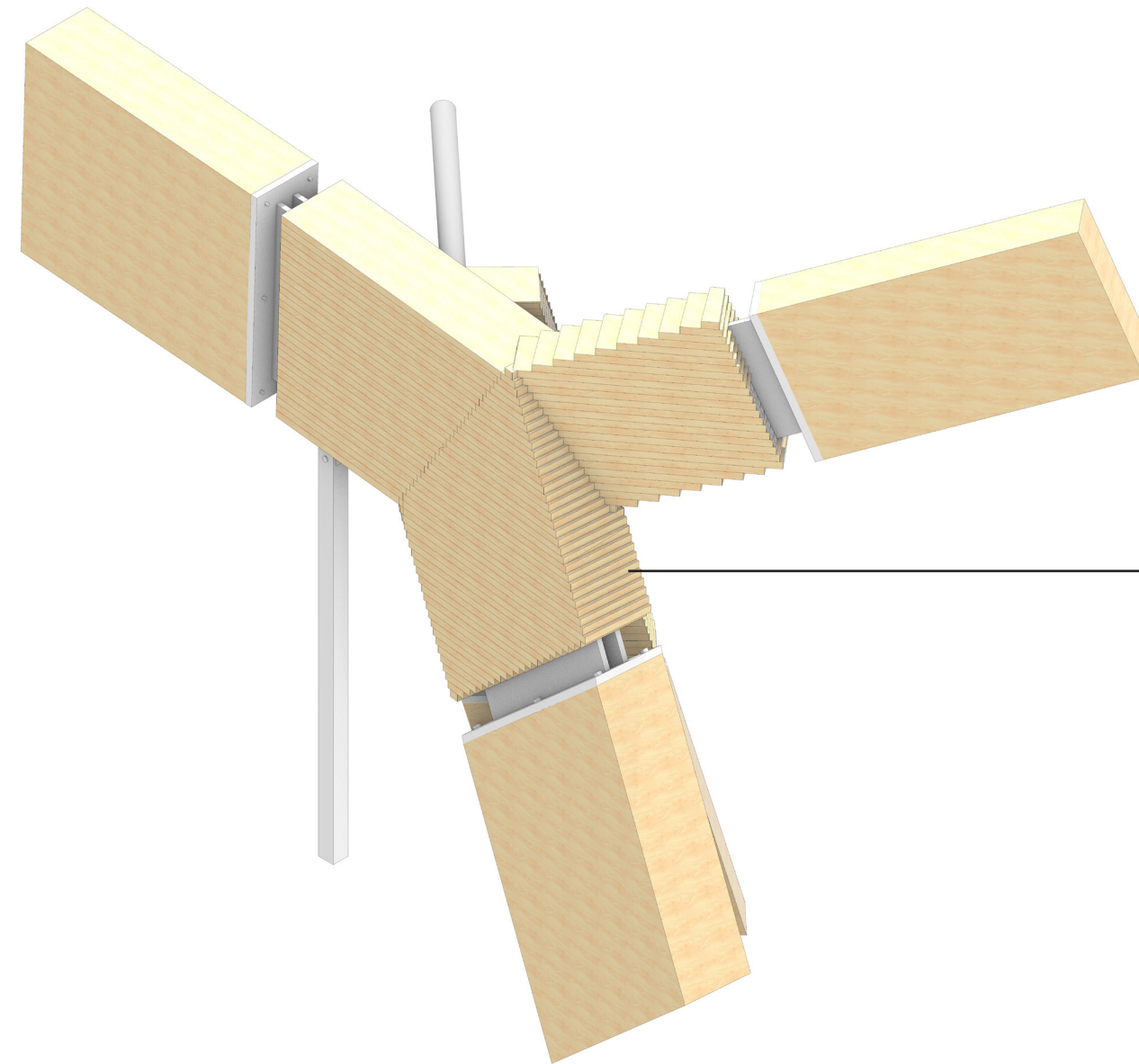
STRUCTURAL JOINT 3: COMPLEX GEOMETRY JOINT



STRUCTURAL JOINT 3: COMPLEX GEOMETRY JOINT

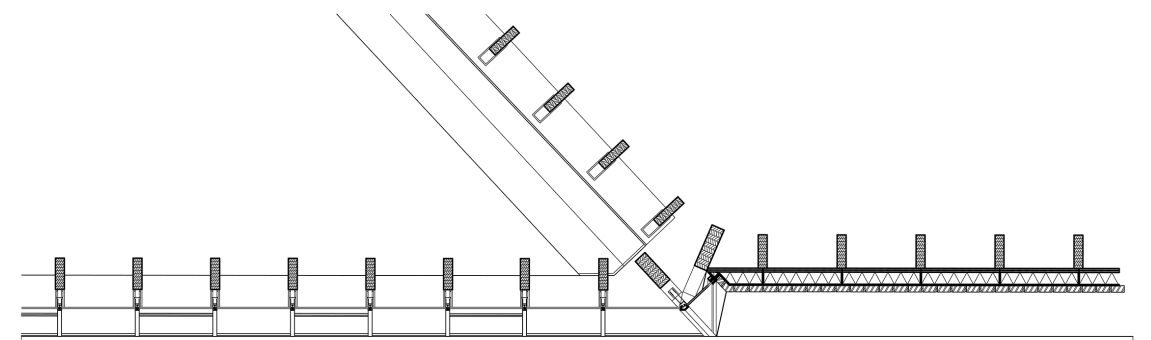
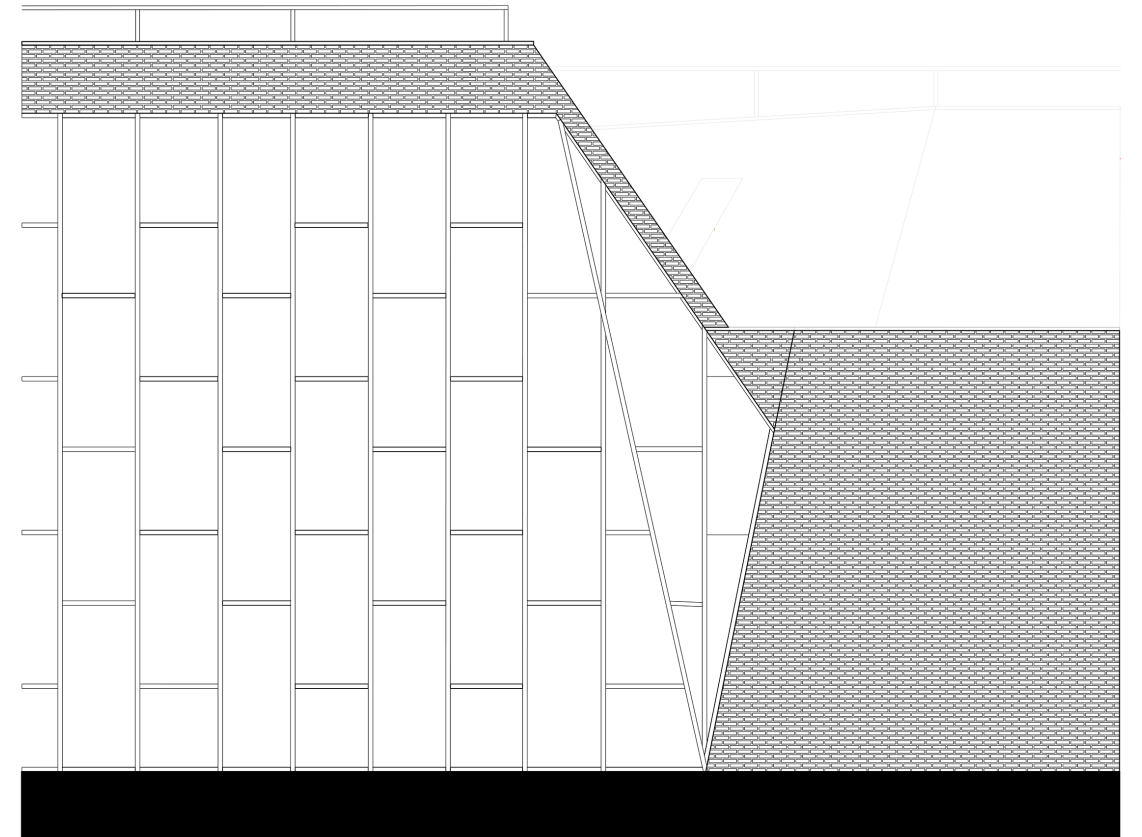
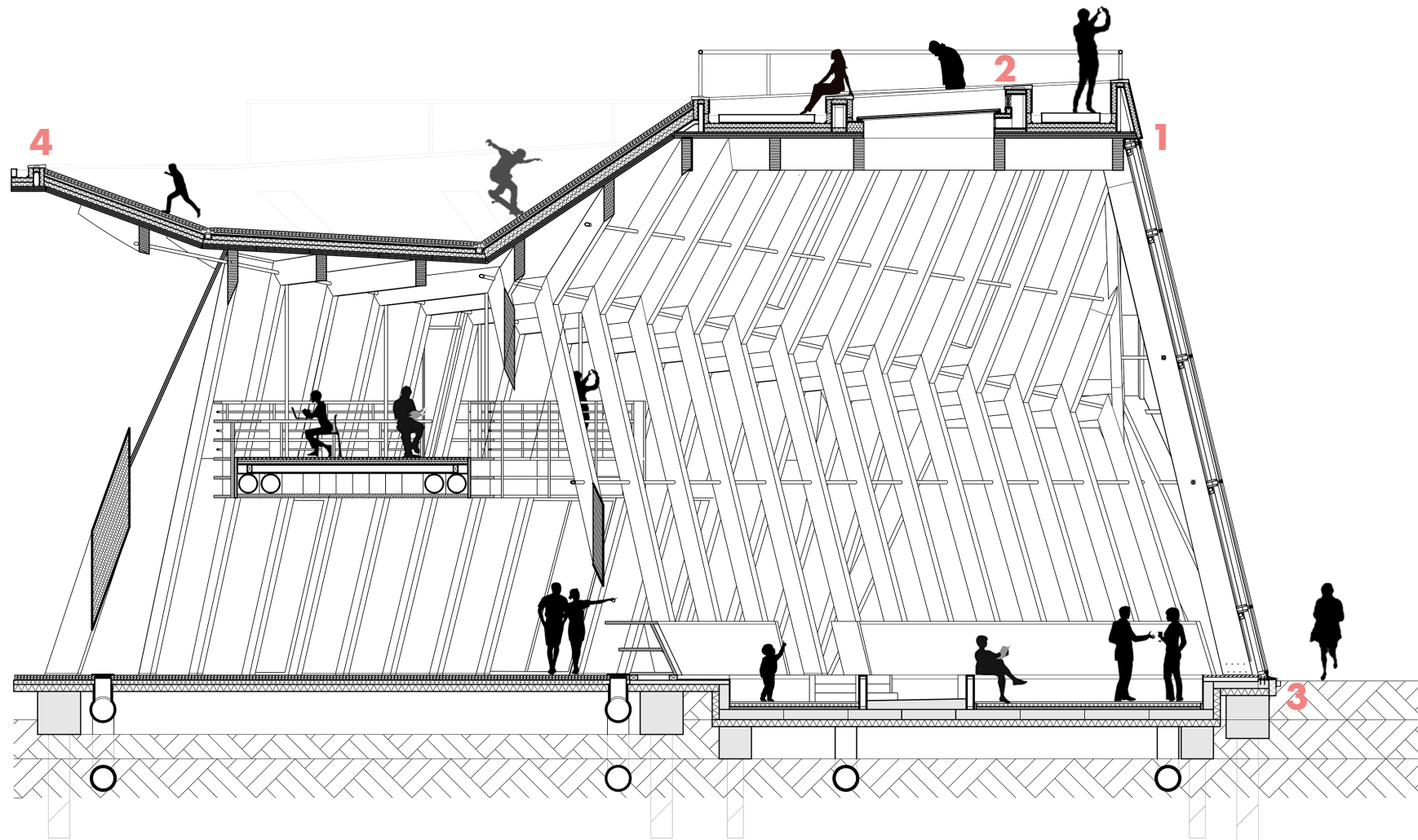


STRUCTURAL JOINT 3: COMPLEX GEOMETRY JOINT

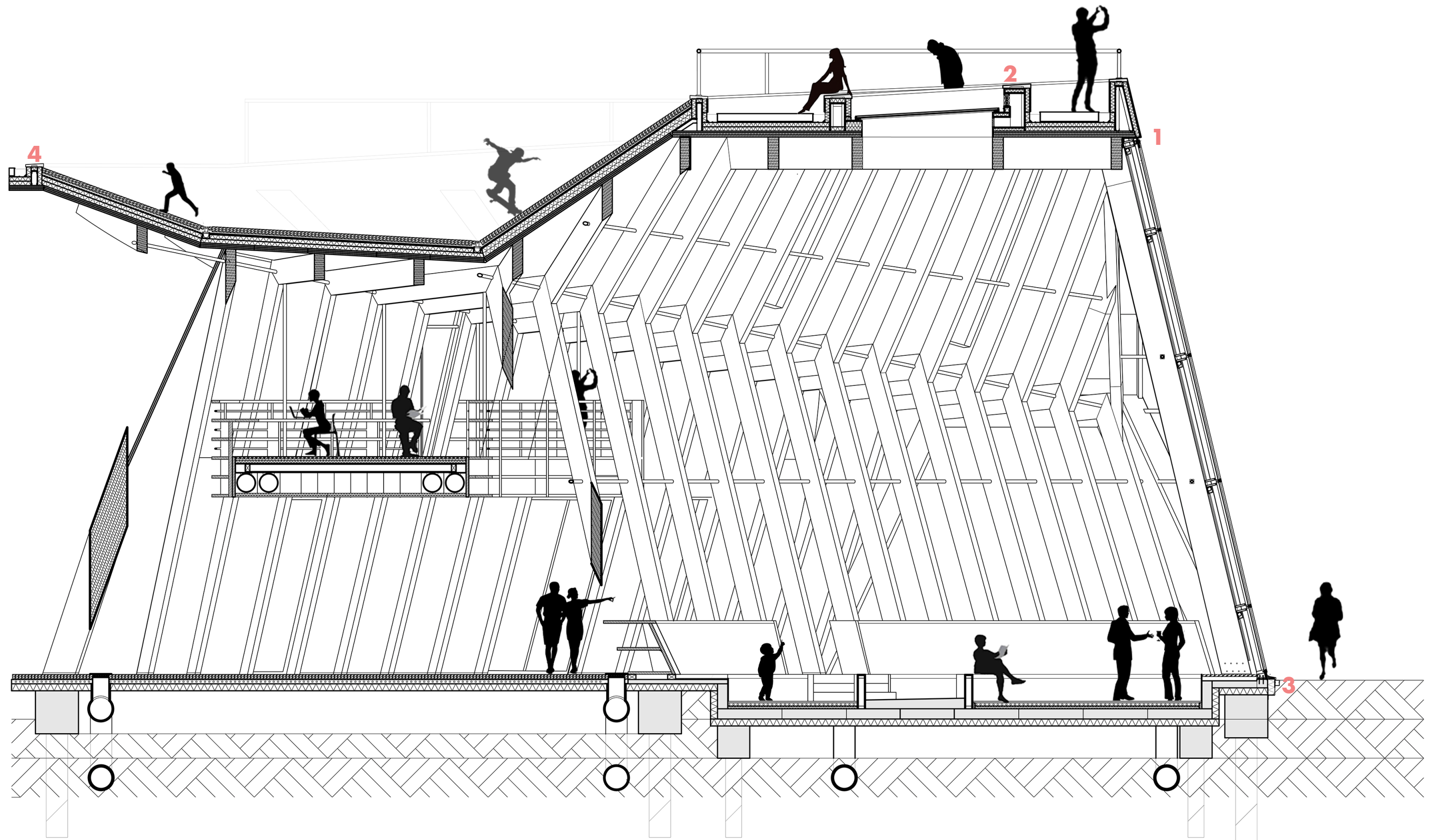


CUSTOM MADE CNC MILLED WOOD COVER FROM
SEPERATE PANELS STAMPED TOGETHER

FRAGMENT FACADE 1:20

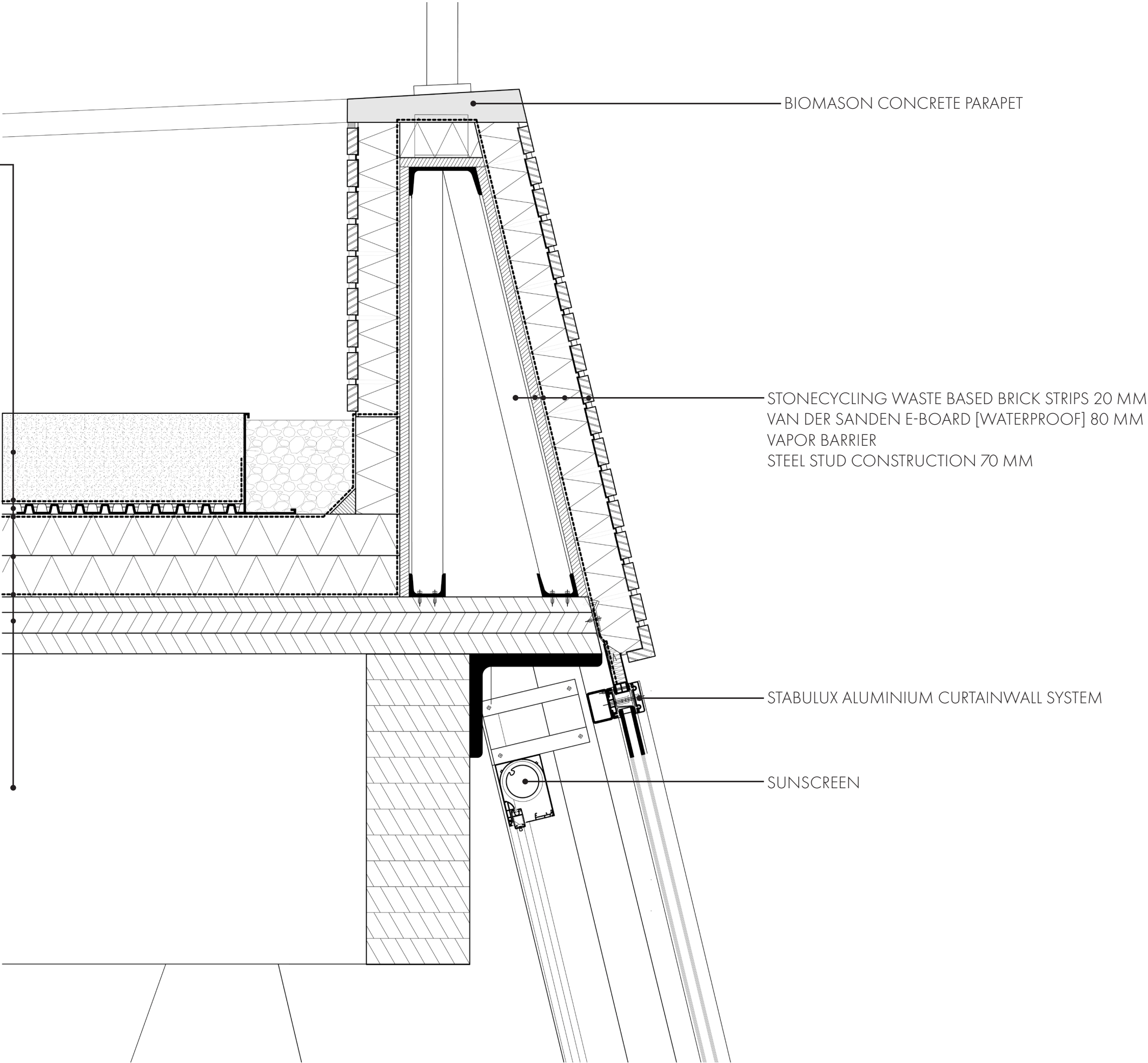


SECTION 1:20

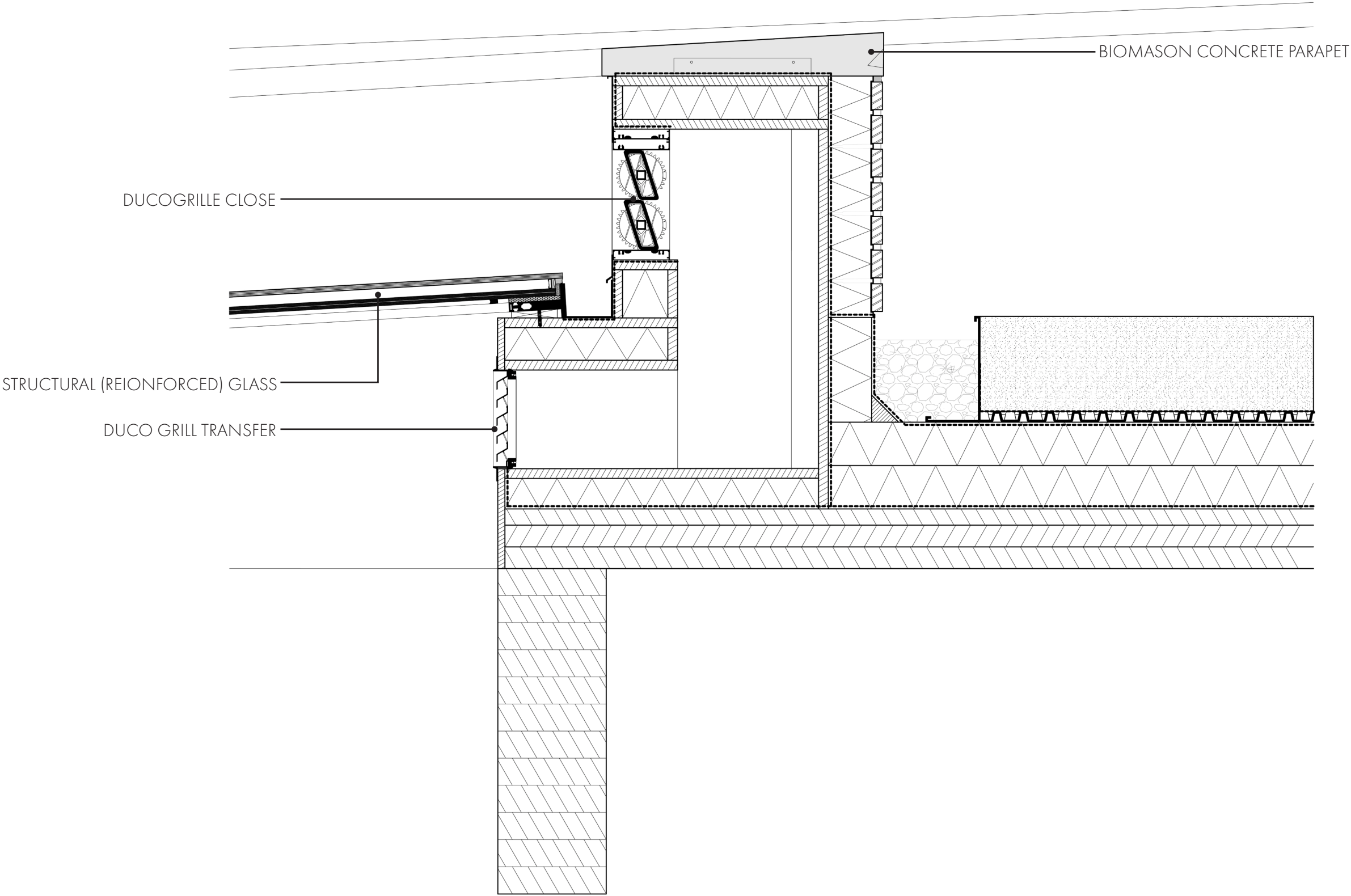


DETAIL 1

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

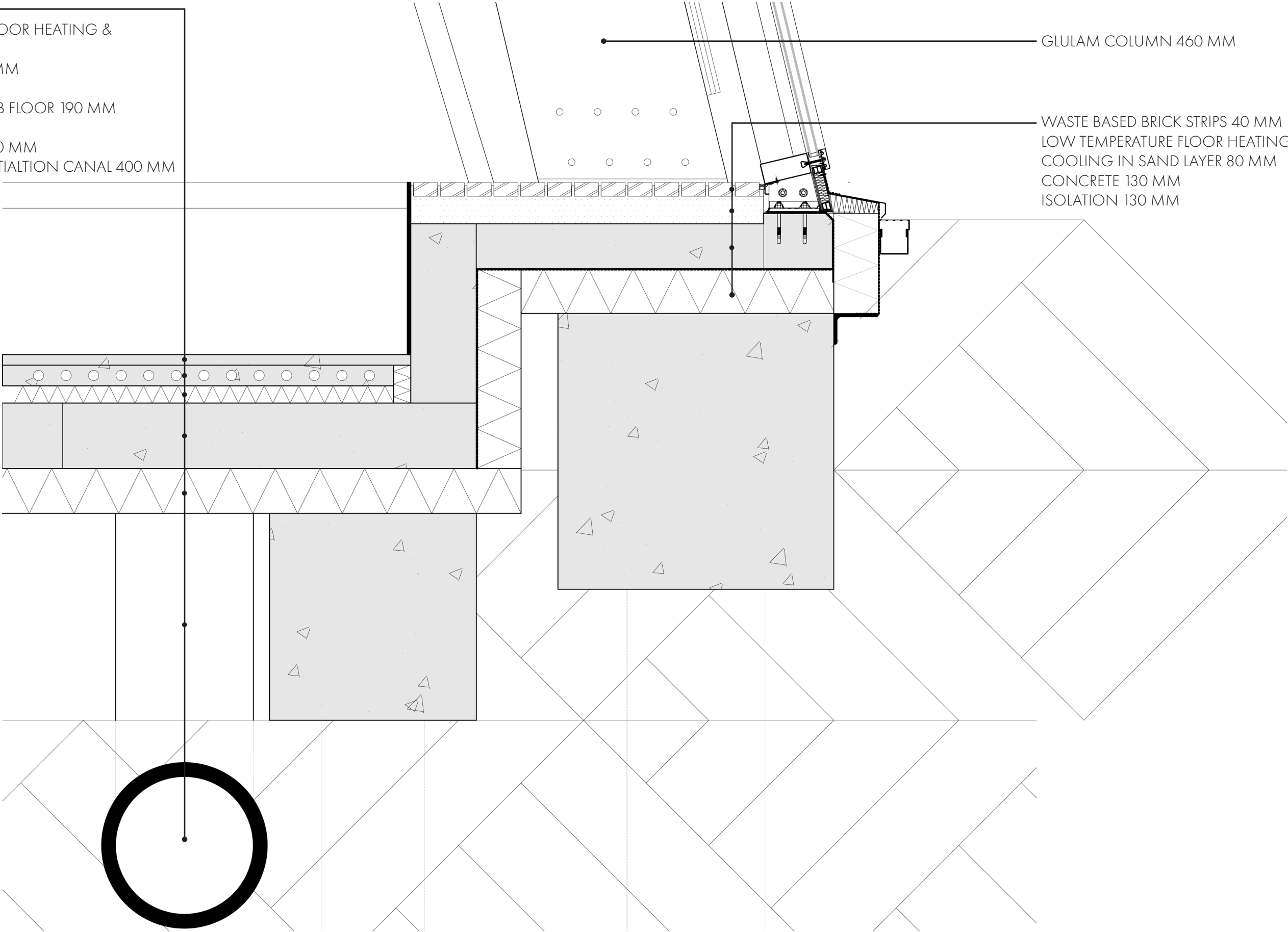


DETAIL 3

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

