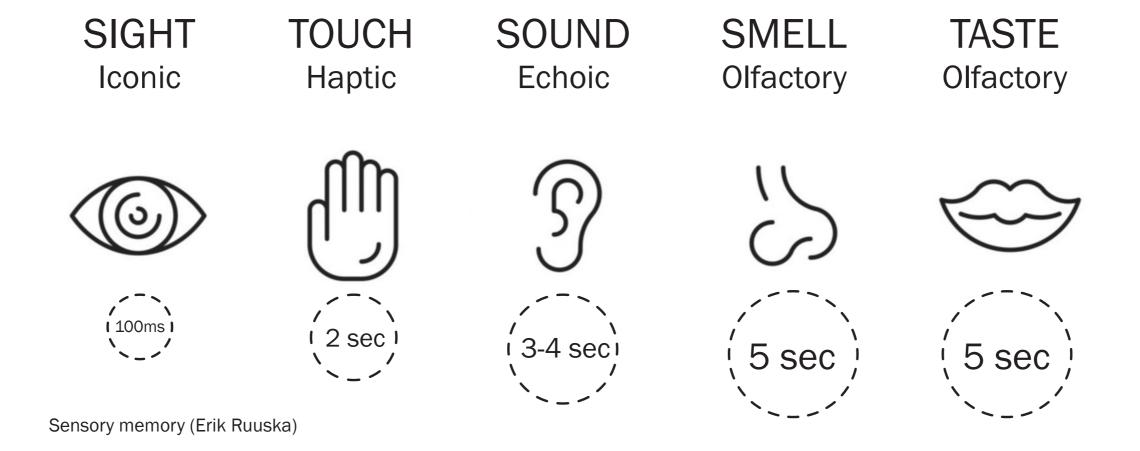


CREATING INTERACTIVE ATMOSPHERES BY DESIGNING FOR THE SENSES



PUBLIC CONDENSER







HEALTHY ENVIRONMENT

IMPROVING USER CONDITIONS AND/OR SURROUNDING ENVIRONMENT



LEISURE &
RELAXATION
SPENDING YOUR FREE TIME

PUBLIC CONDENSER MULTIPLICITY



ACCESSIBLE PLACE FOR EVERYONE

INCLUSION & DIVERSITY



PROVIDES MULTIPLE FACILITIES (HYBRID)



PRODUCTIVE ARCHITECTURE

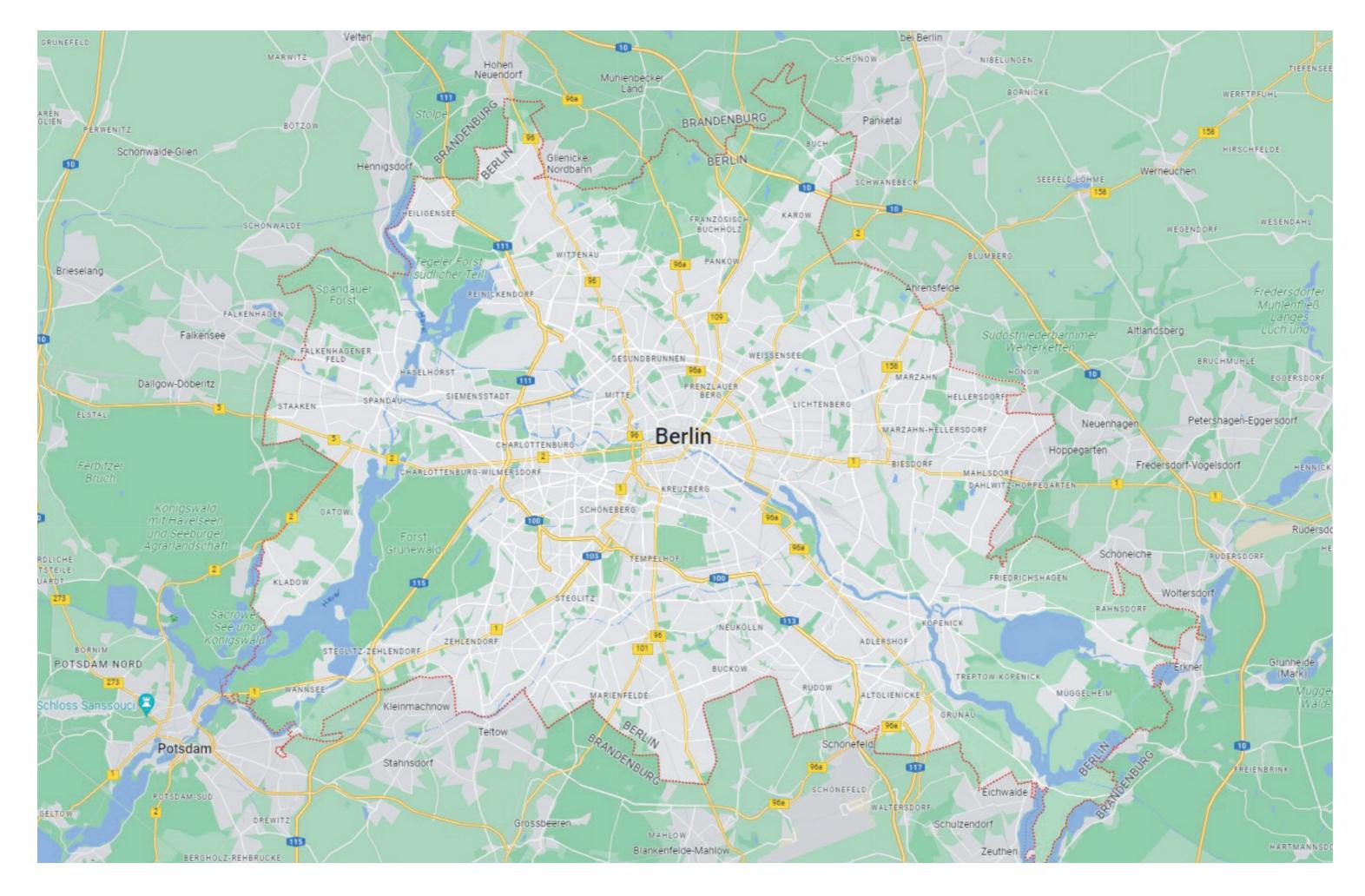
IN USE, MATERIALS AND ENVIRONMENT



CIRCULAR & NATURE ORIENTED

BERLIN

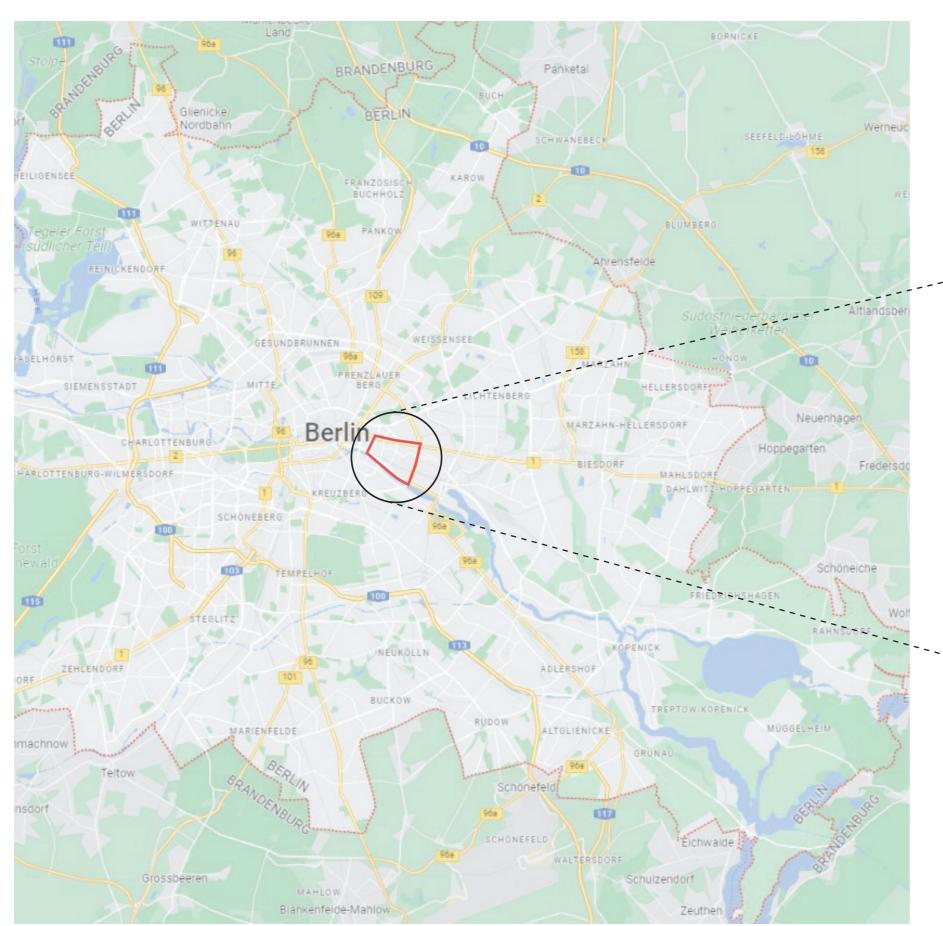
BERLIN

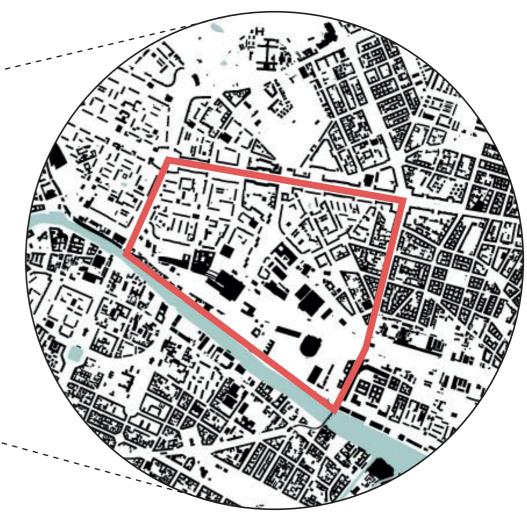


BERLIN



BERLIN SITE AREA FRIEDRICHSHAIN

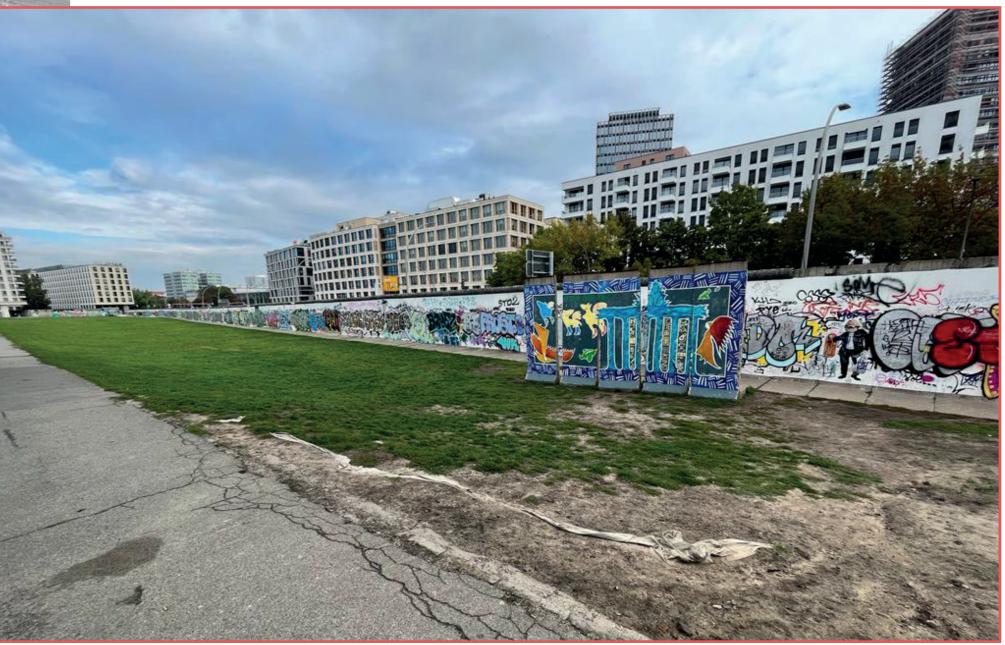






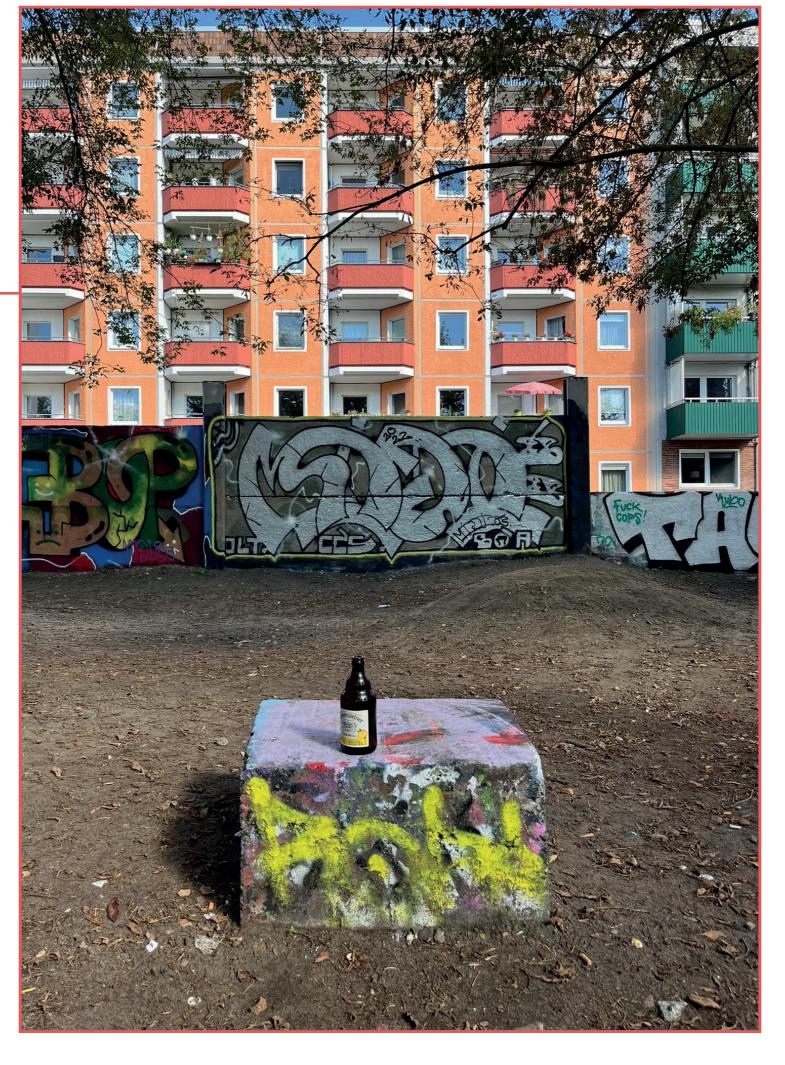












Berghain





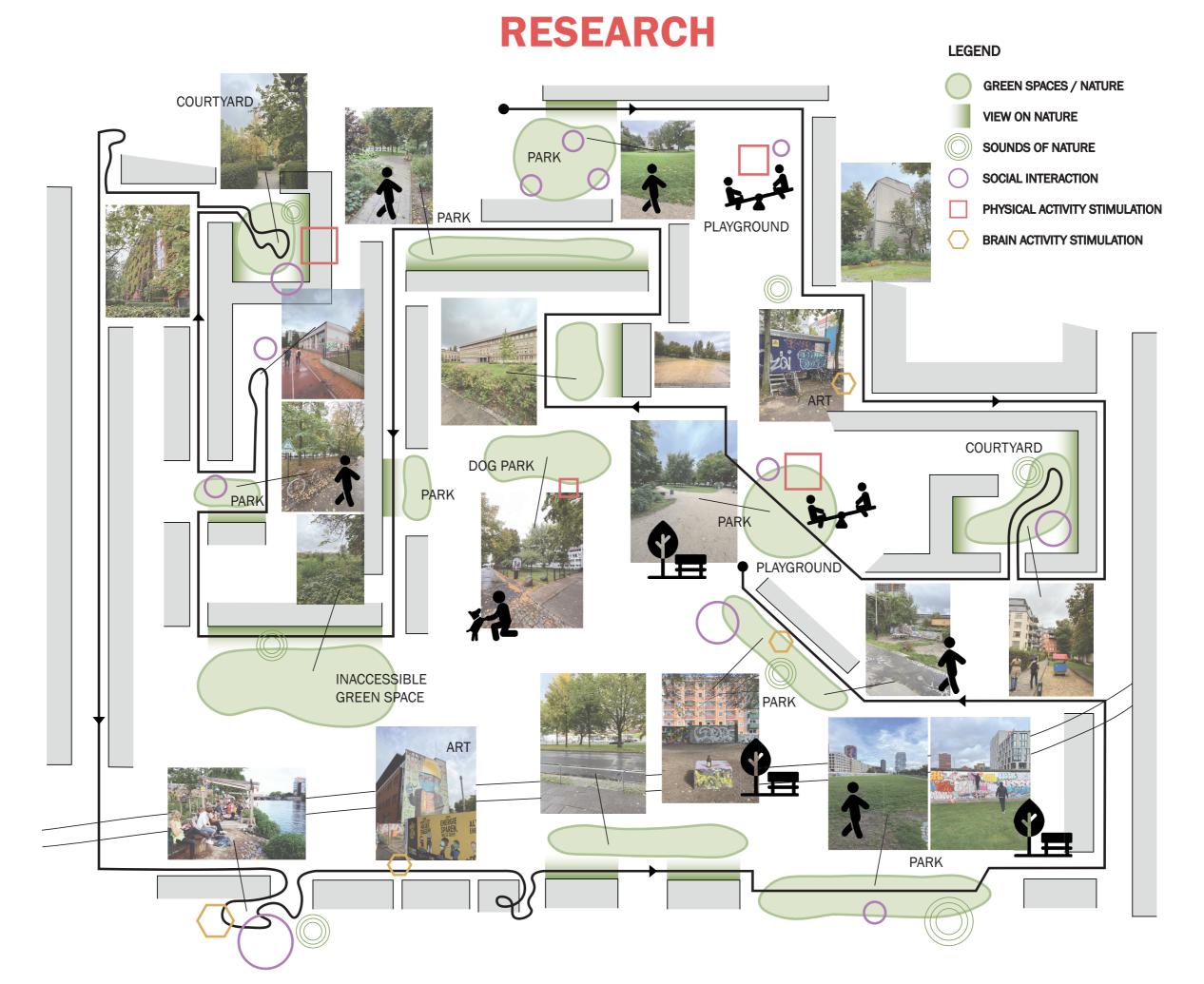




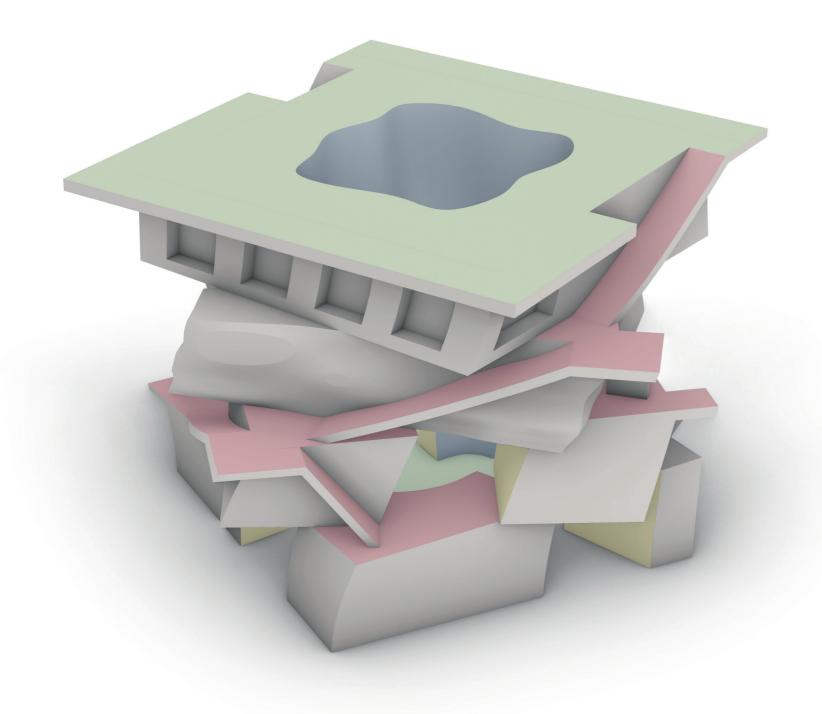


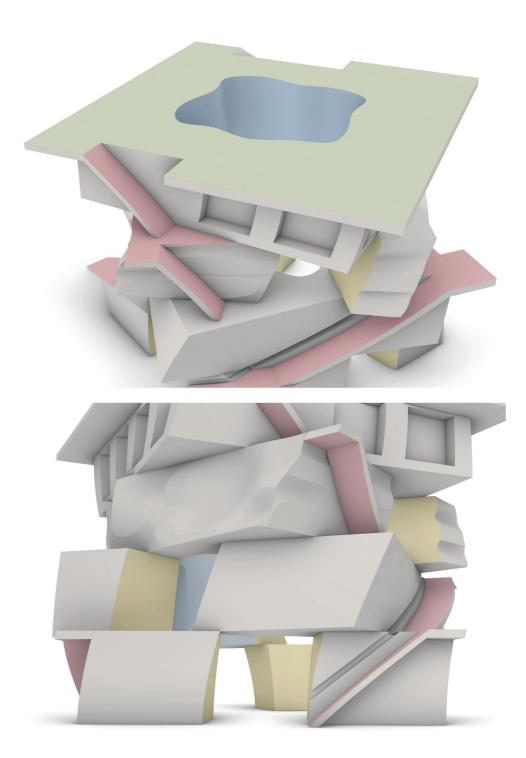


BERLIN FRIEDRICHSHAIN



BERLIN BUILDING NEEDS





WHAT IS THE BUILDING ASKING FOR?



USERS

All kind of people



MOVE/STAY

Both, creating an interactive experience



BUILDING SHAPE / SPATIAL QUALITIES

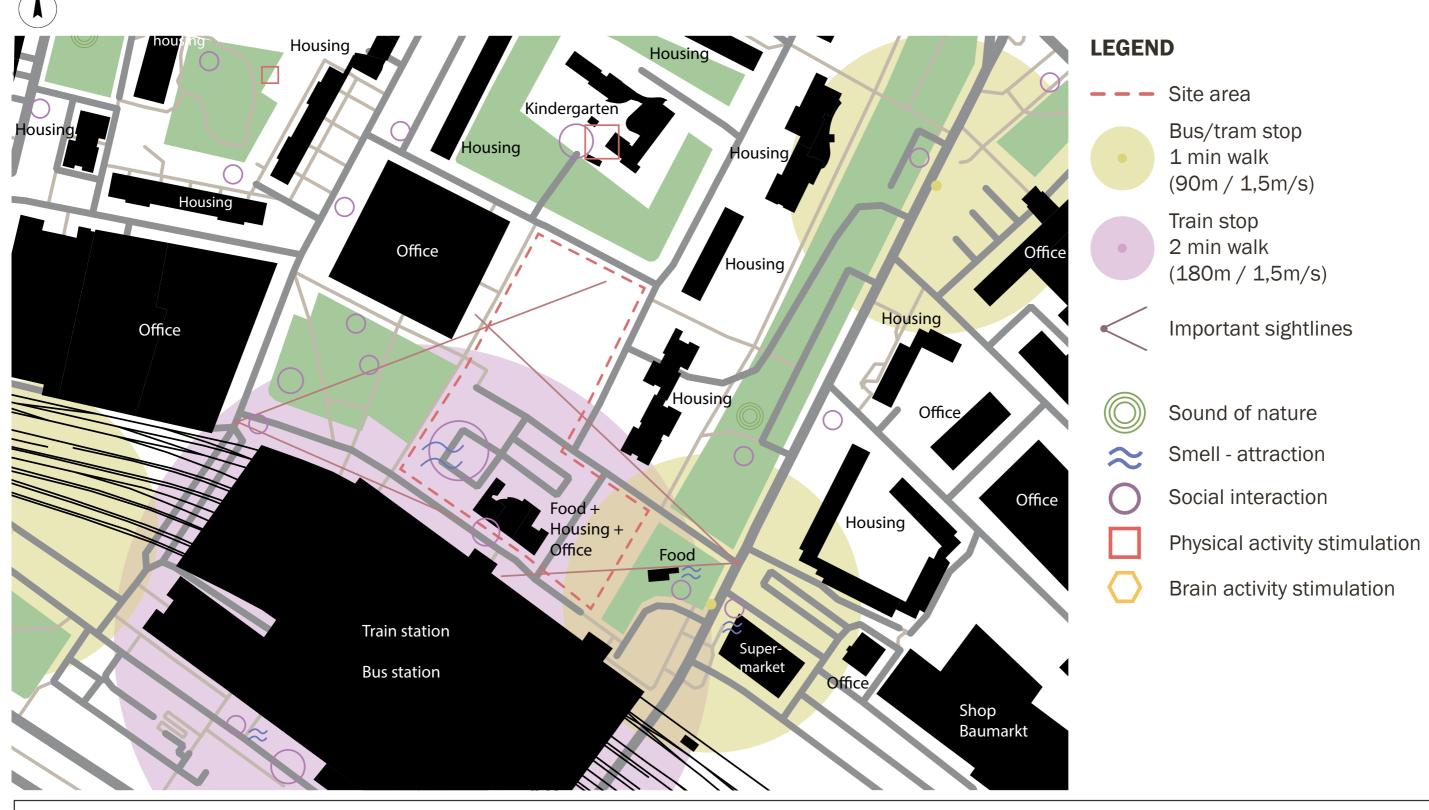
- Curvilinear shapes inside the building
- Vertical or small building masses for light
- (Green) Inner space that attracs people with view, sound & smell
- Space for movement & interactions



ATMOSPHERE

- Interactive experience by multisensory design
 - Interaction between users
 - Interaction between user & building
- Green spaces
- Attraction

BERLIN SITE ANALYSES





BUILDING HEIGHT

All heights are possible <45m



BUILDING SHAPE

Free



USERS

Residents, officeworkers, tourists, passers-by



FUNCTION

Leisure & interaction



MOVE/STAY Both



ATMOSPHERE

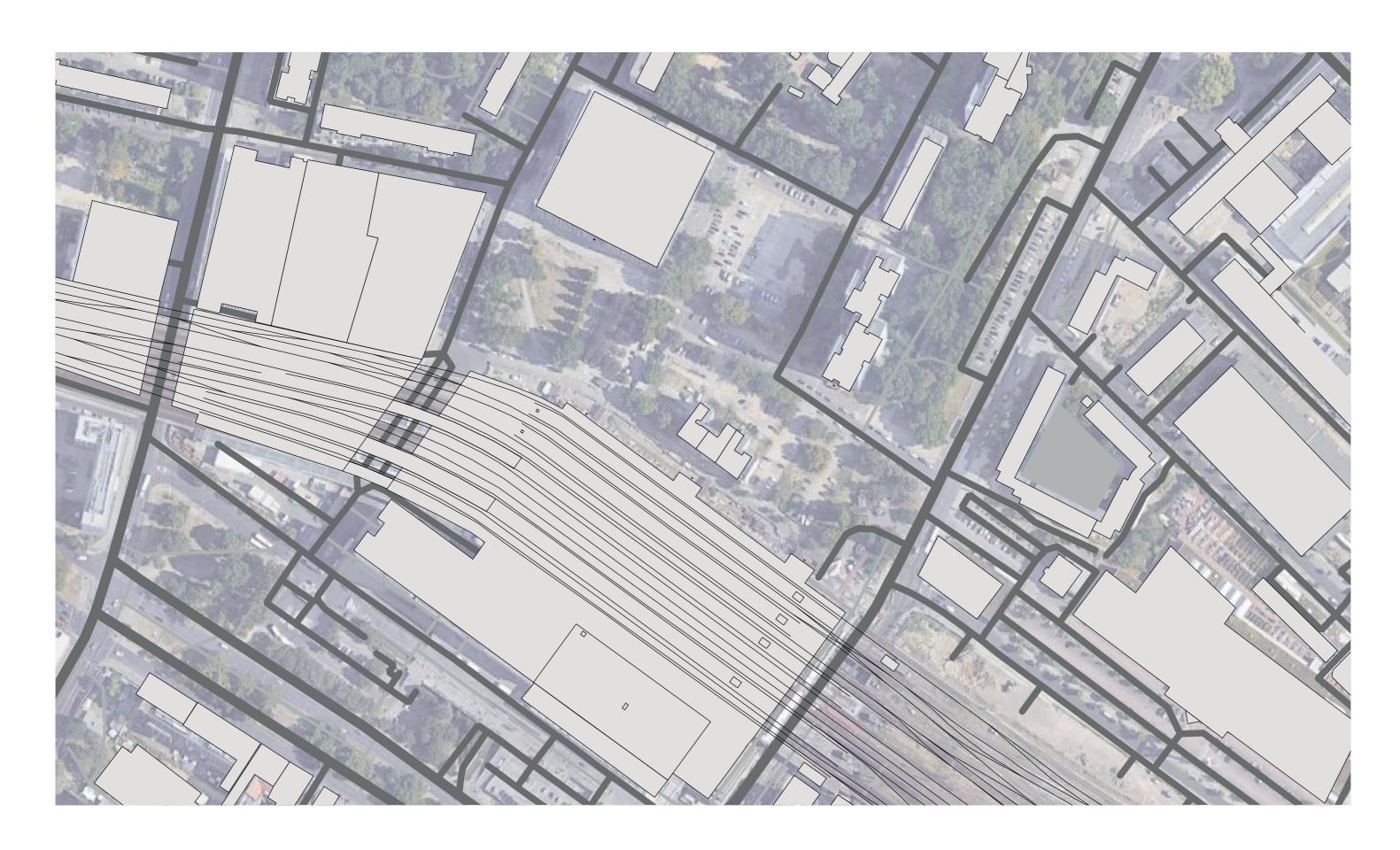
Green, interaction, food, relax



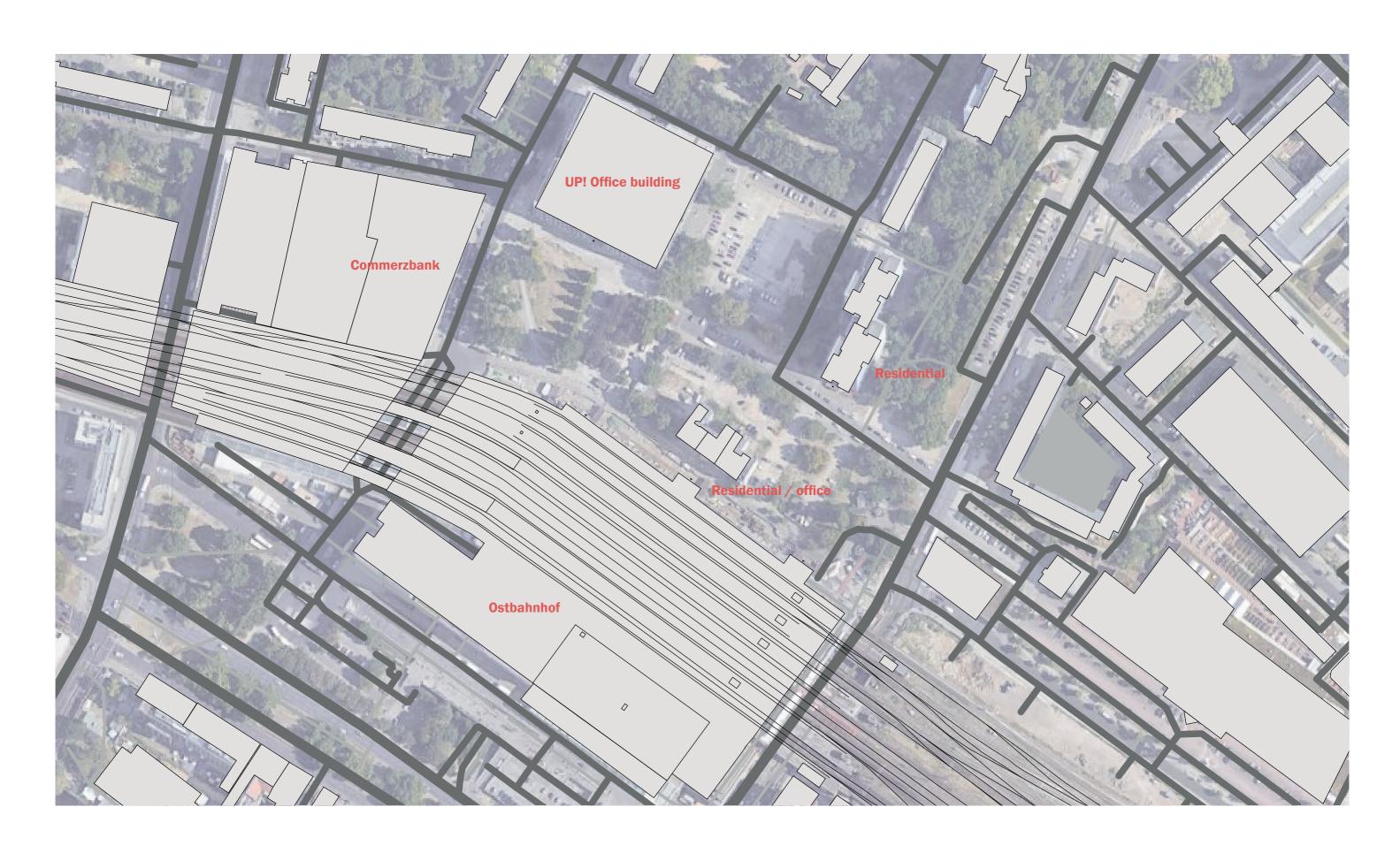
INTERVIEWS

- Missing sports for children
- Missing workspace
- Lots of passers-by, tourists and mix of different people
- Missing connection east west

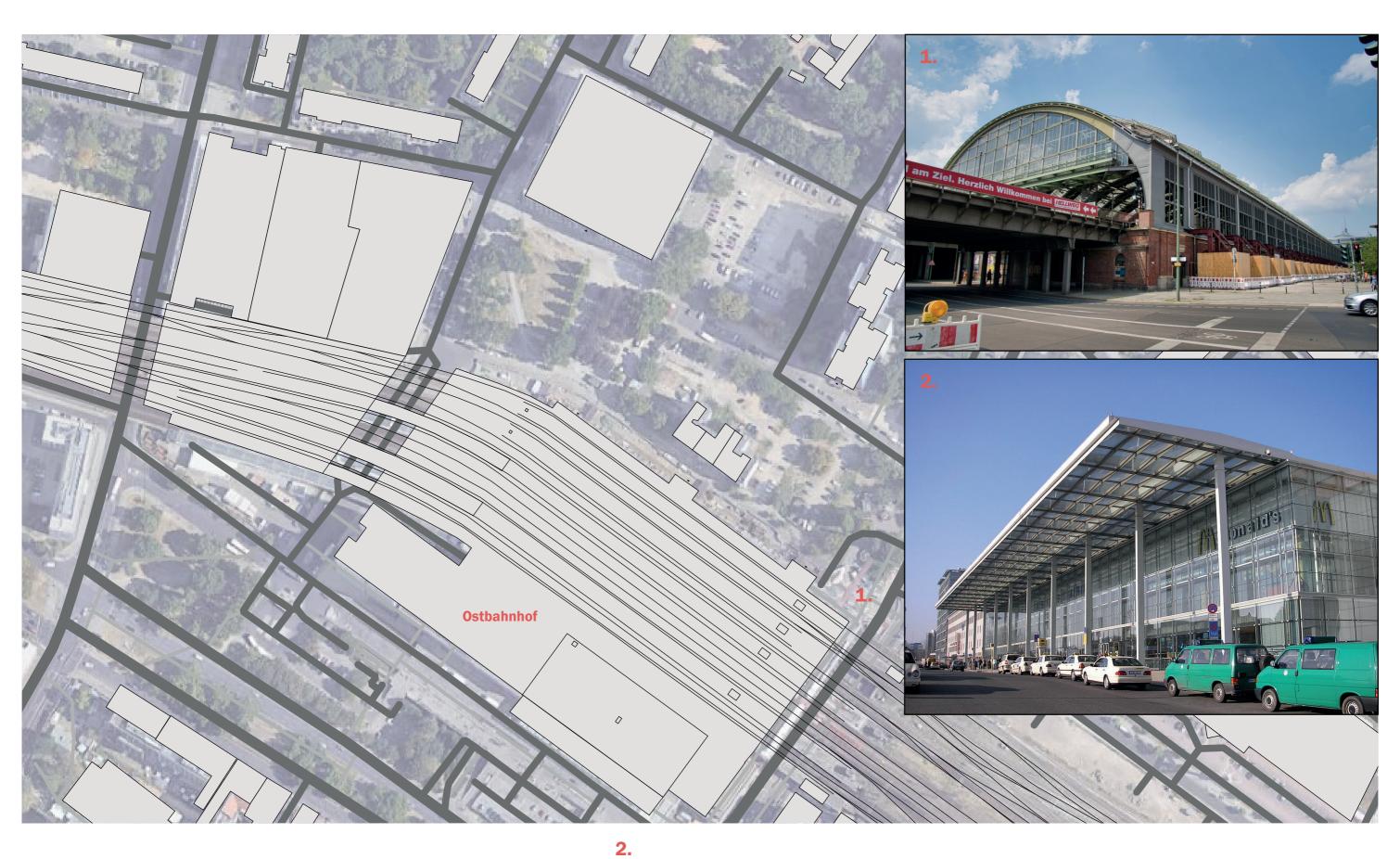
BERLIN SITE AREA ANDREASVIERTEL



BERLIN SITE AREA ANDREASVIERTEL



BERLIN SITE AREA OSTBAHNHOF



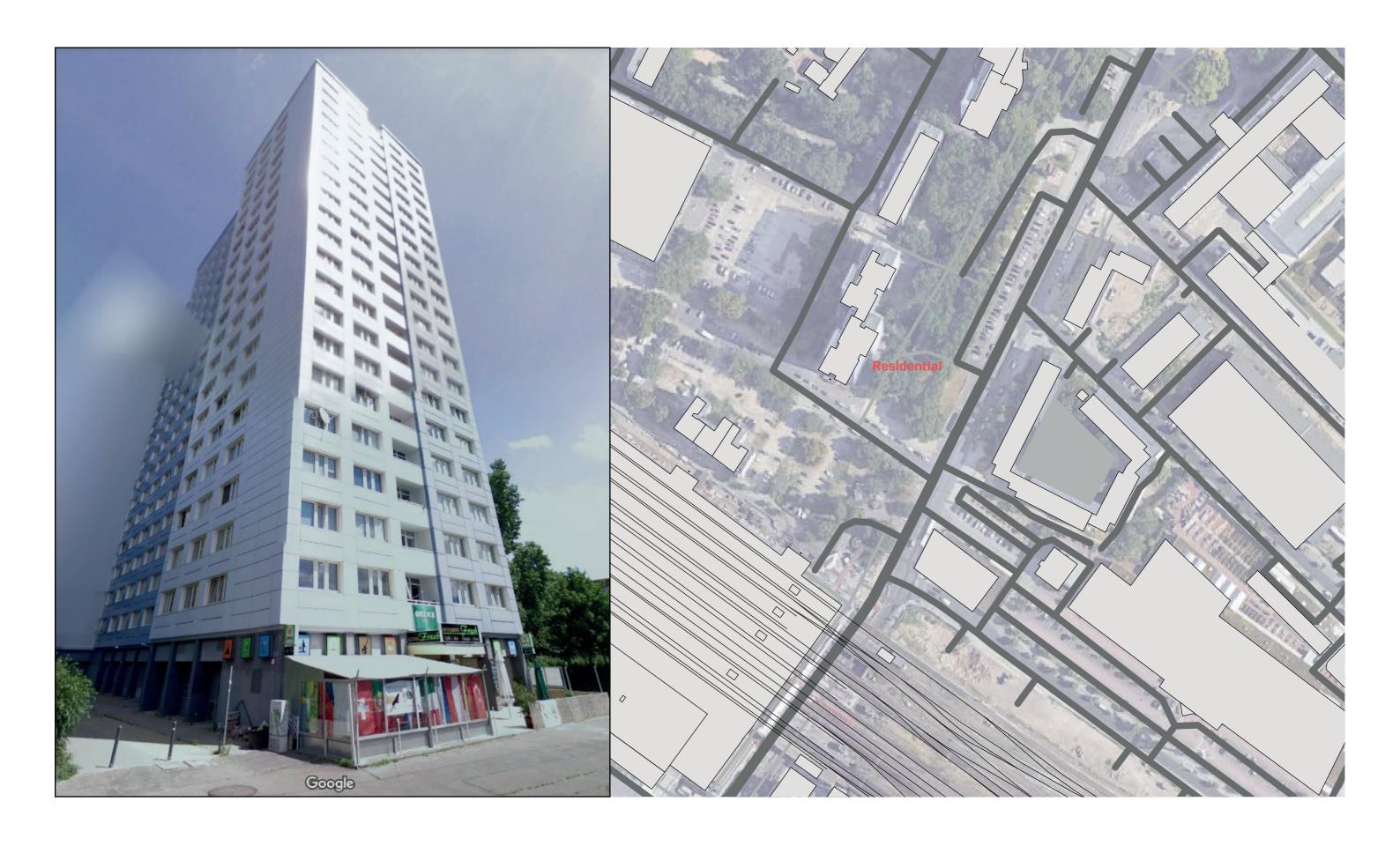
BERLIN SITE AREA UP! OFFICE BUILDING



BERLIN SITE AREA COMMERZBANK



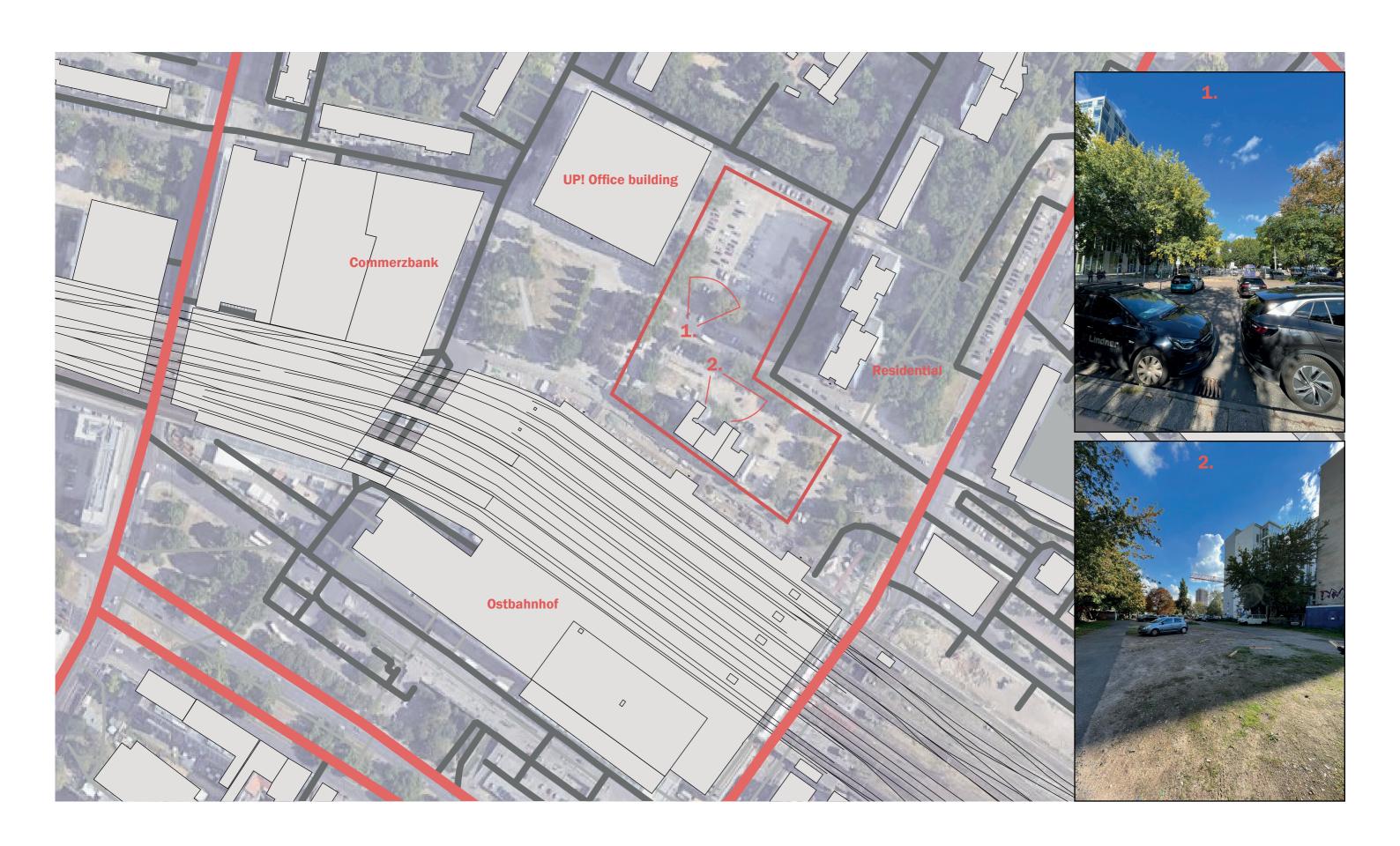
BERLIN SITE AREA RESIDENTIAL BUILDING



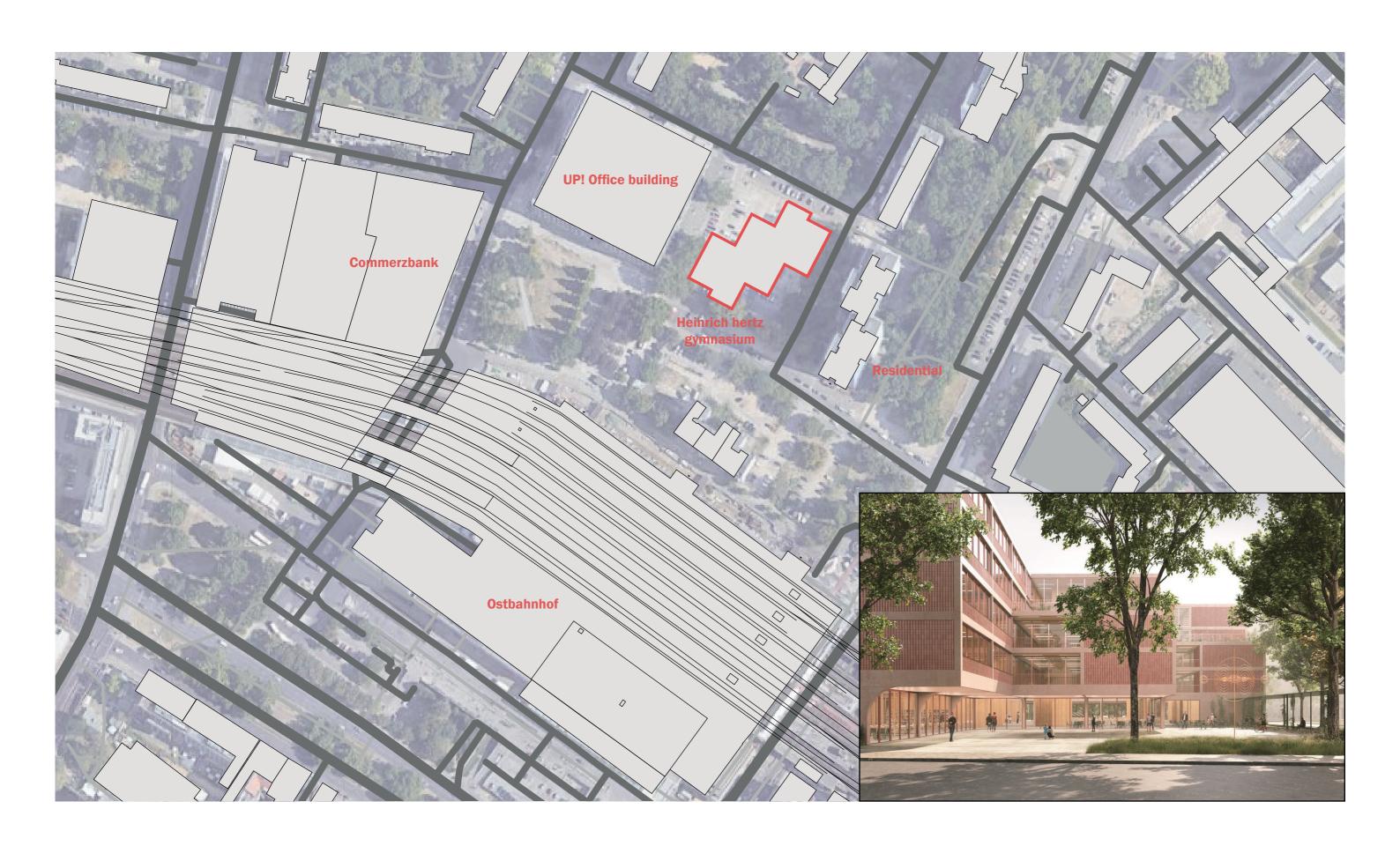
BERLIN SITE AREA LEFT OVER BUILDING



BERLIN SITE AREA MAIN ROUTE & PARKING PLOT



BERLIN SITE AREA HEINRICH HERTZ GYMNASIUM

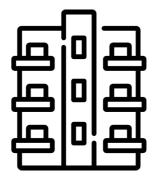


SITE RESEARCH ANDREASVIERTEL



Missing functions

- Sport facilities
- Communal functions / activities
- Parks / green areas



Small houses



Lack of safety feelings



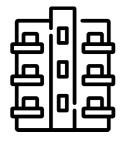
Missing feeling of community

SITE RESEARCH ANDREASVIERTEL



Missing functions

- Sport facilities
- Communal functions / activities
- Parks / green areas



Small houses

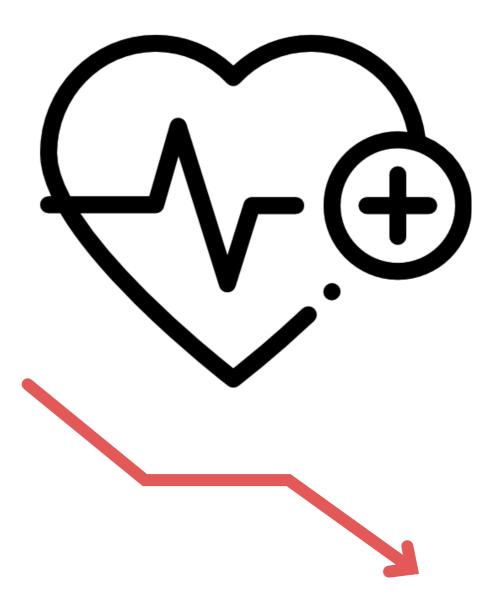


Lack of safety feelings



Missing feeling of community

Slowly decreasing overall well-being



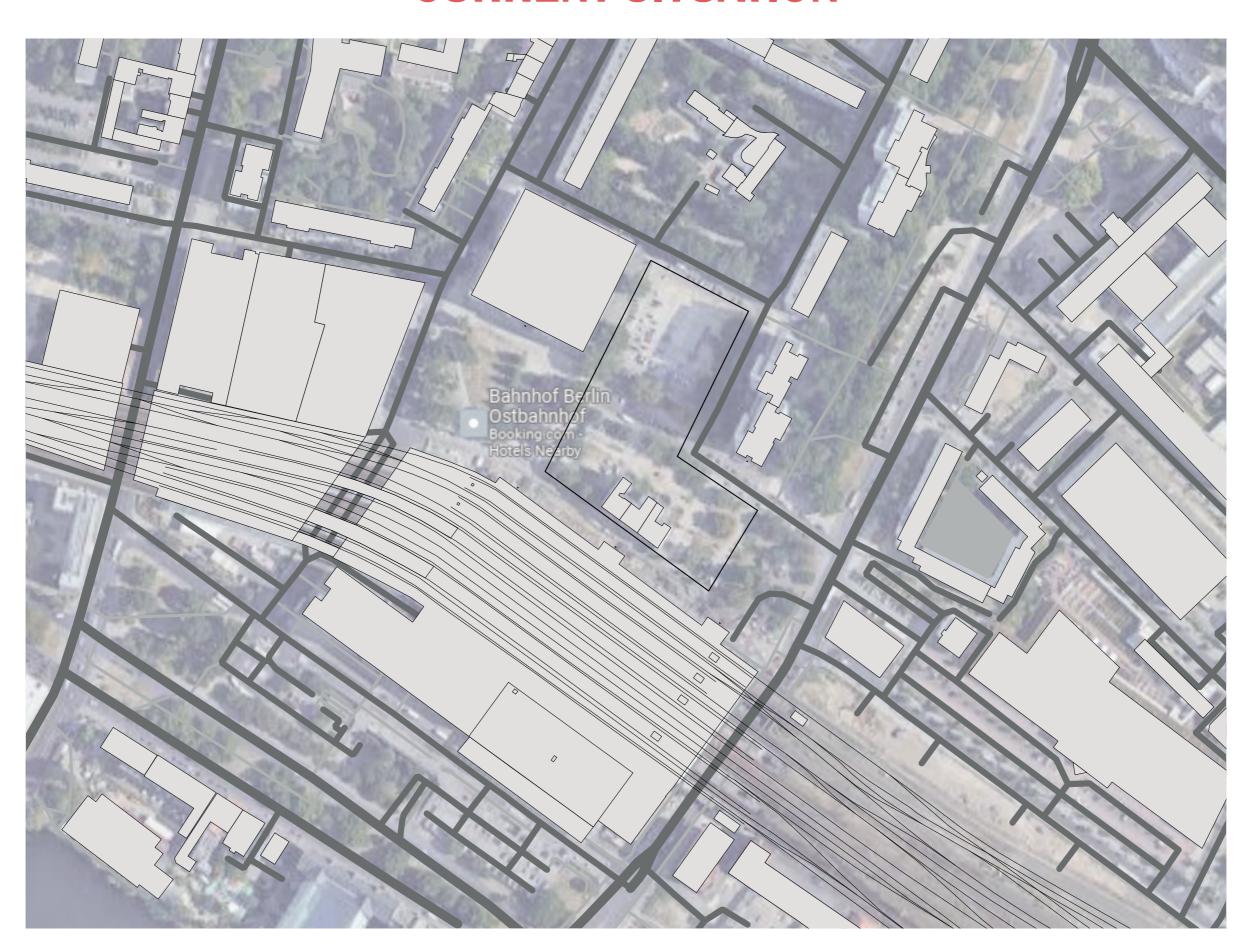
GOAL

IMPROVEMENT OF WELL-BEING



- CREATING SENSORY EXPERIENCES
- EVIDENCE BASED DESIGN

URBAN STRATEGY CURRENT SITUATION



URBAN STRATEGY CURRENT SITUATION



URBAN STRATEGY EXISTING ROUTES & SIGHTLINES



URBAN STRATEGY EXISTING ROUTES & SIGHTLINES



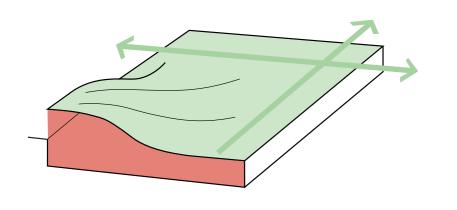
URBAN STRATEGY BUILDING PLOTS

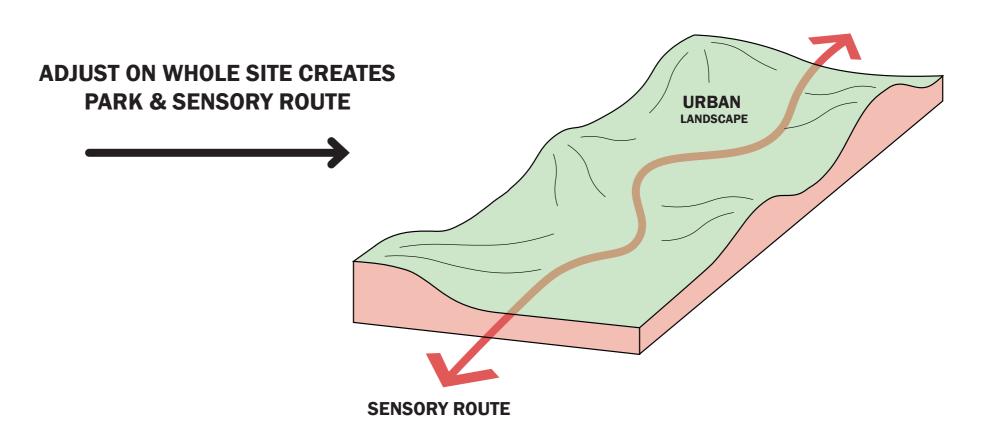


URBAN STRATEGY LANDSCAPE & BUILDING MASS

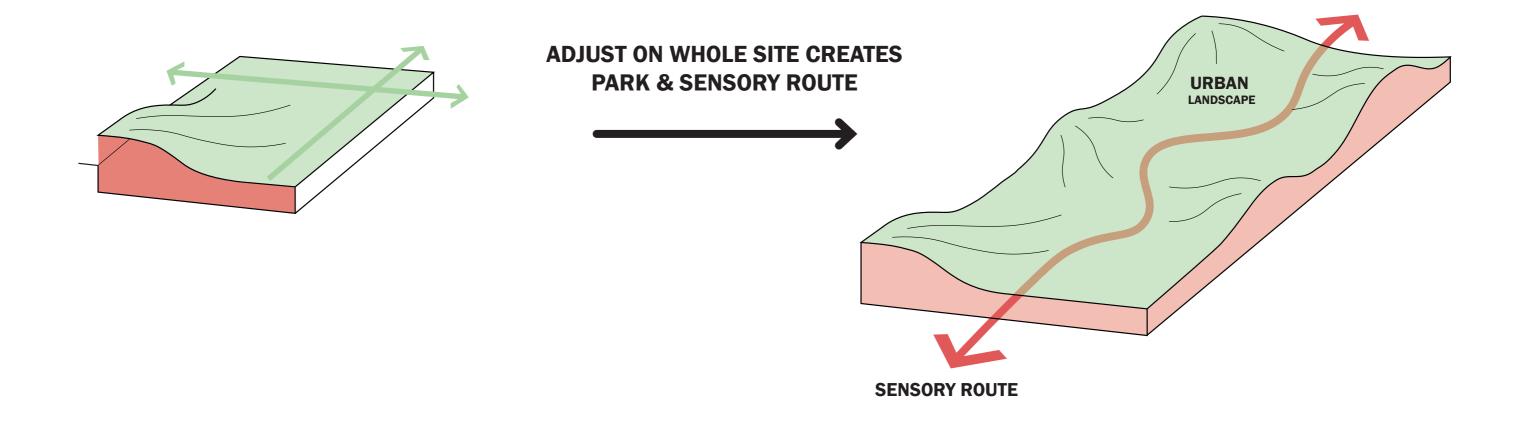


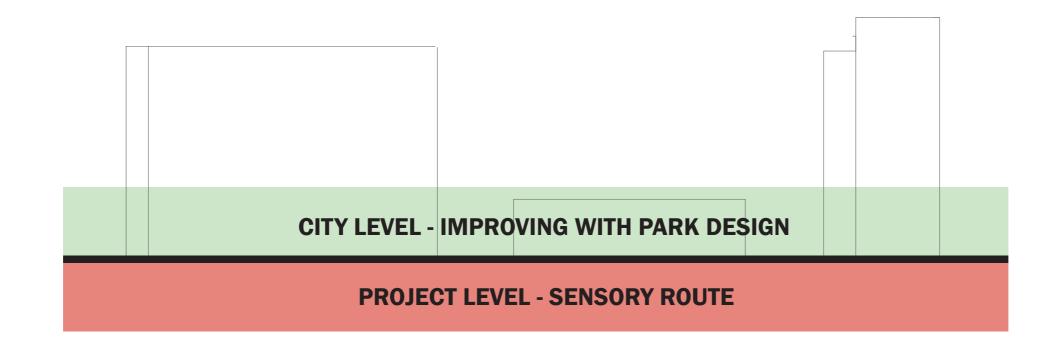
URBAN STRATEGY LANDSCAPE & SENSORY ROUTE



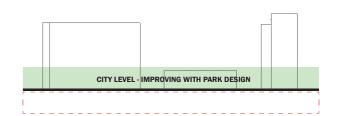


URBAN STRATEGY LANDSCAPE & SENSORY ROUTE

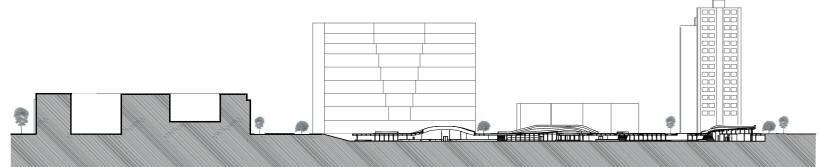


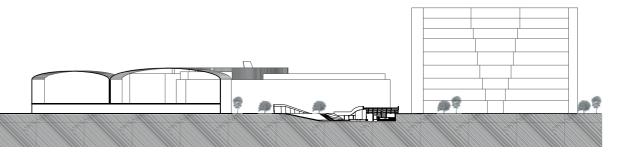


URBAN SITUATION PARK DESIGN



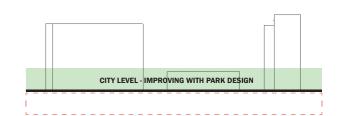


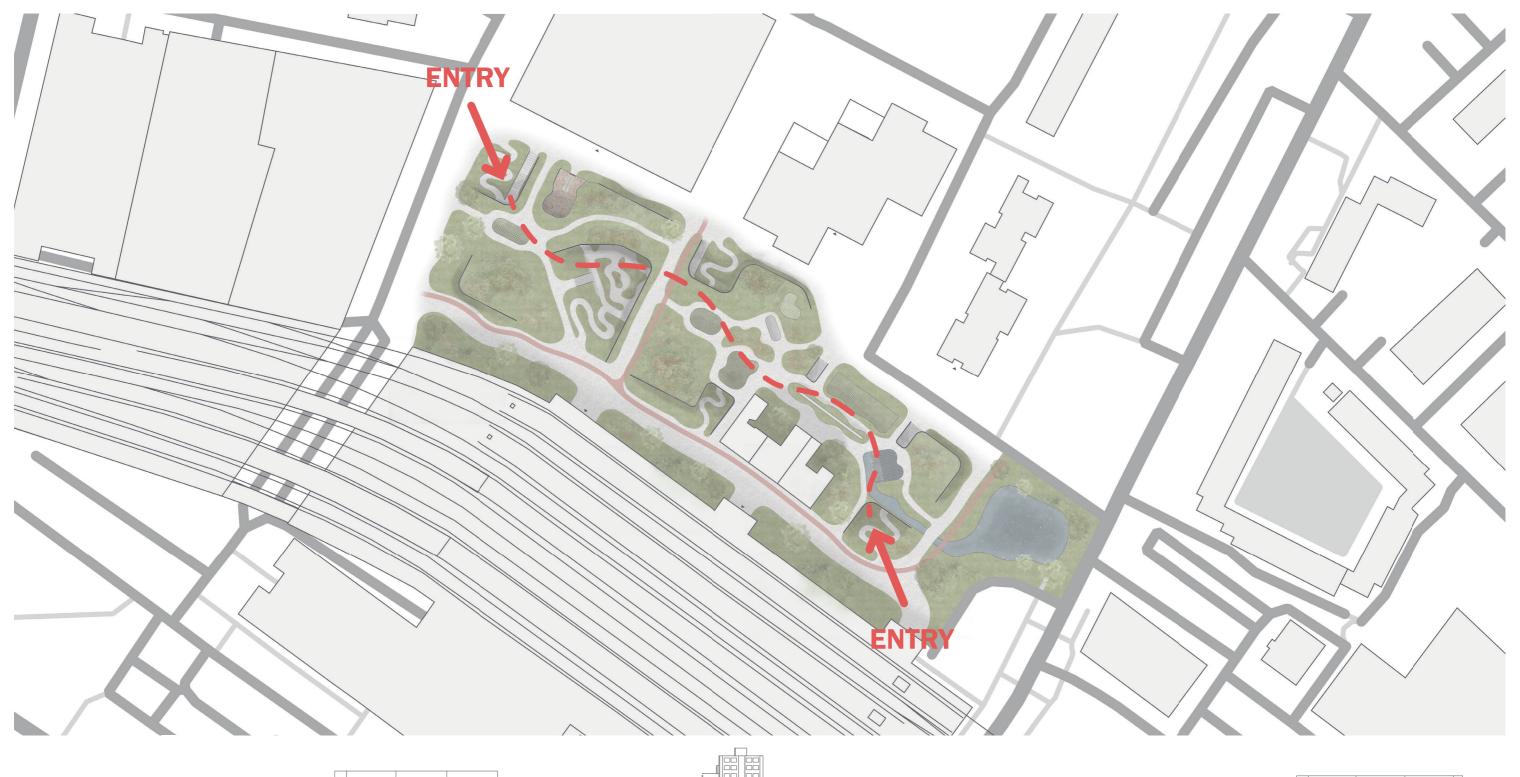


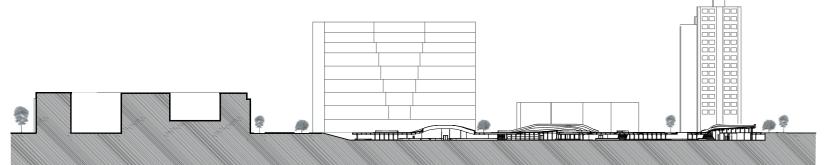




URBAN SITUATION SENSORY ROUTE







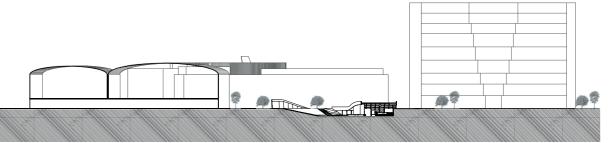
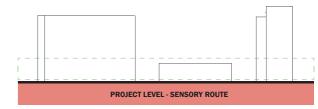




DIAGRAM SENSORY ROUTE



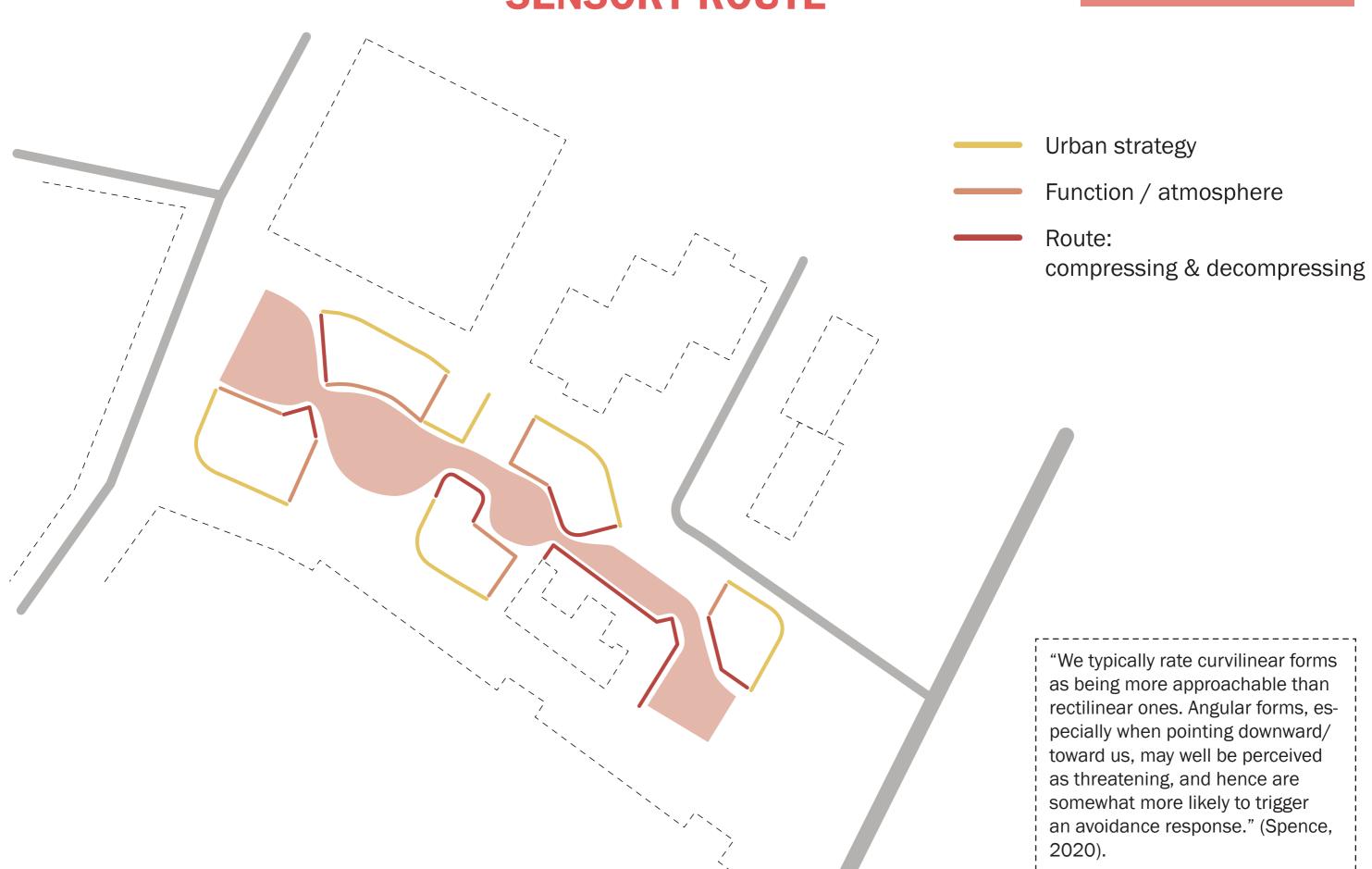
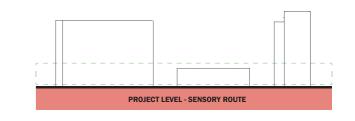


DIAGRAM SENSORY ROUTE



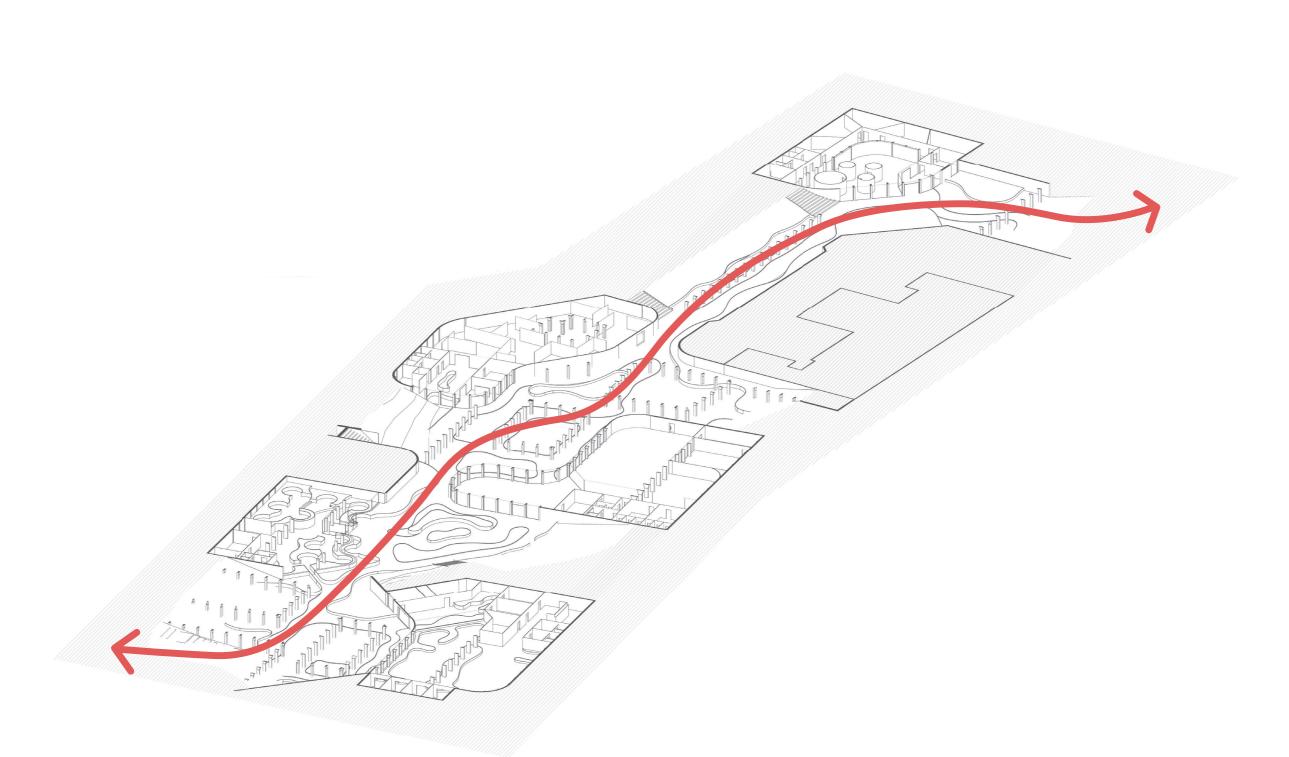
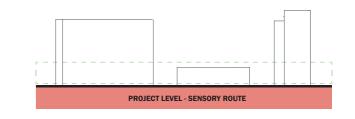


DIAGRAM PAVILIONS



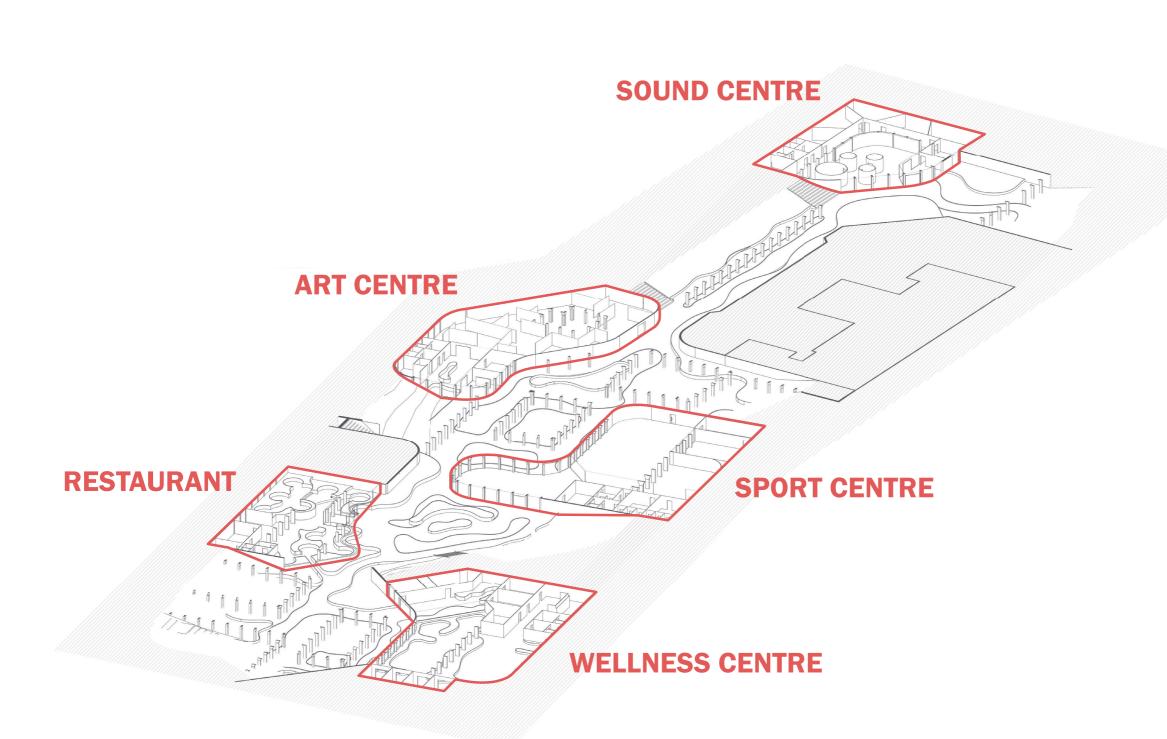
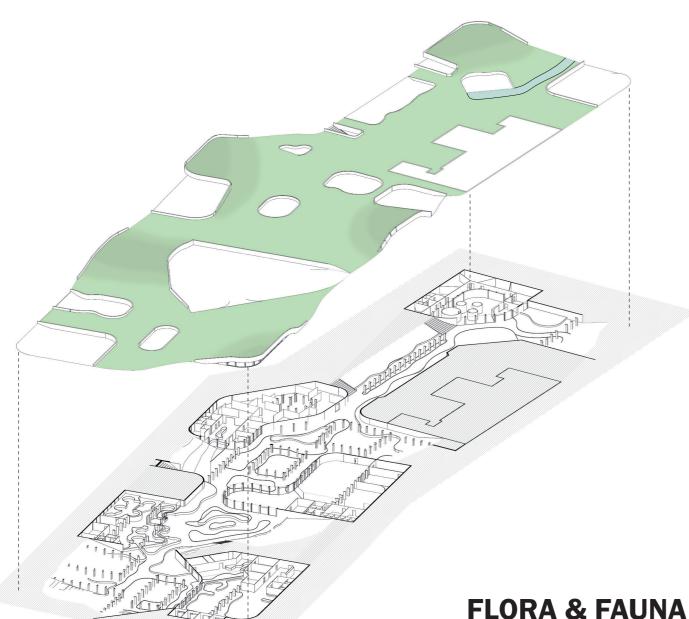


DIAGRAM 2 LAYERS



PROJECT LEVEL - SENSORY ROUTE

GREEN LANDSCAPED ROOF



URBAN HEAT STRESS

- REDUCTION OF 30-40 DEGREES OF **ROOF TEMPERATURE**
- UP TO 5 DEGREES OF SURROUNDED AMBIENT CITY TEMPERATURE DECREASE

(WUR, 2015)

REDUCTION OF ENERGY

- SMALL ENERGY USE REDUCTION (SUMMER CONDITIONS)



LAVENDER

- Stress-relieving benefits
- Reduction in anxiety,

depression & sleeplessness



CHAMOMILE

- Reduction in anxiety and stress
- Soothing effects on skin
- Mental health improving aroma

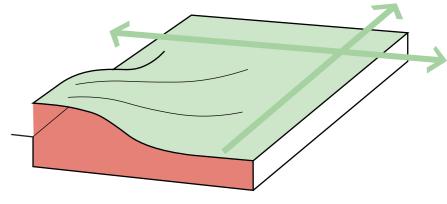


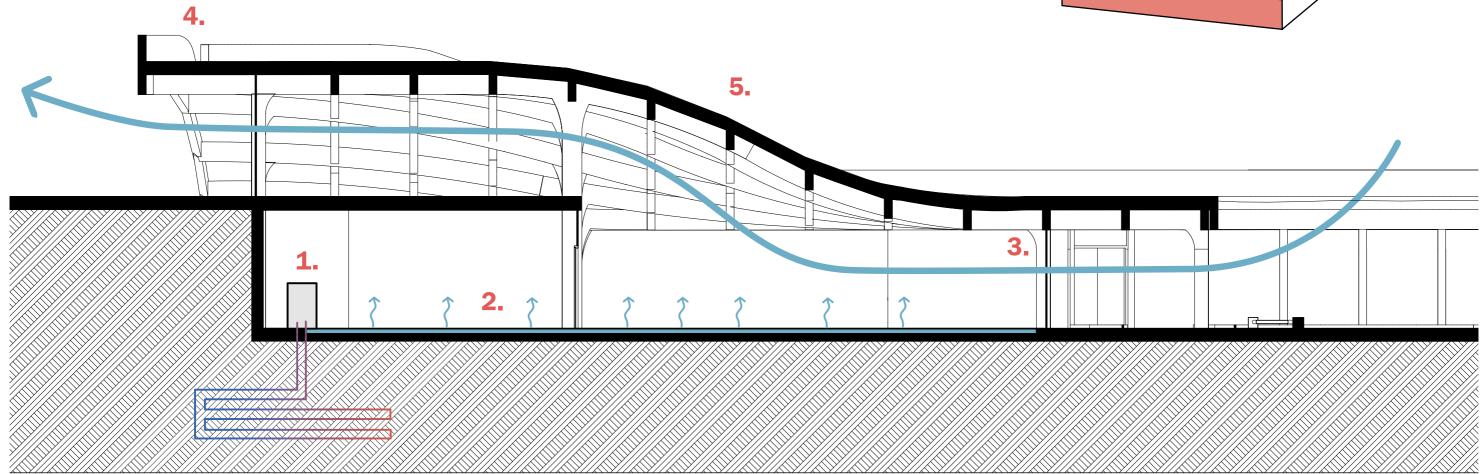
INSECTS

- Healthy flora by pollination
- Affects public health

DIAGRAM CLIMATE

SUMMER SITUATION

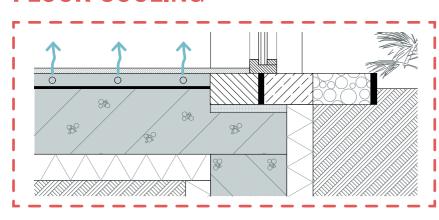




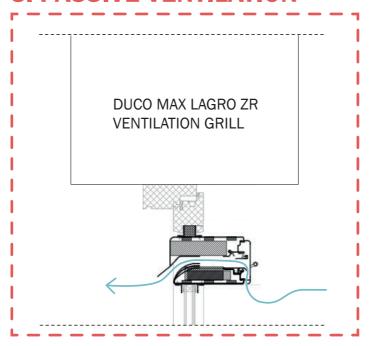
1. GEOTHERMAL HEAT PUMP

EXTRACTING COLD FROM THE SOIL

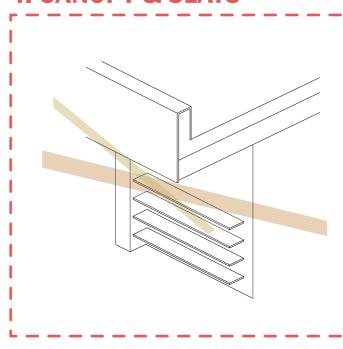
2. ENERGY SUFFICIENT FLOOR COOLING



3. PASSIVE VENTILATION



4. CANOPY & SLATS

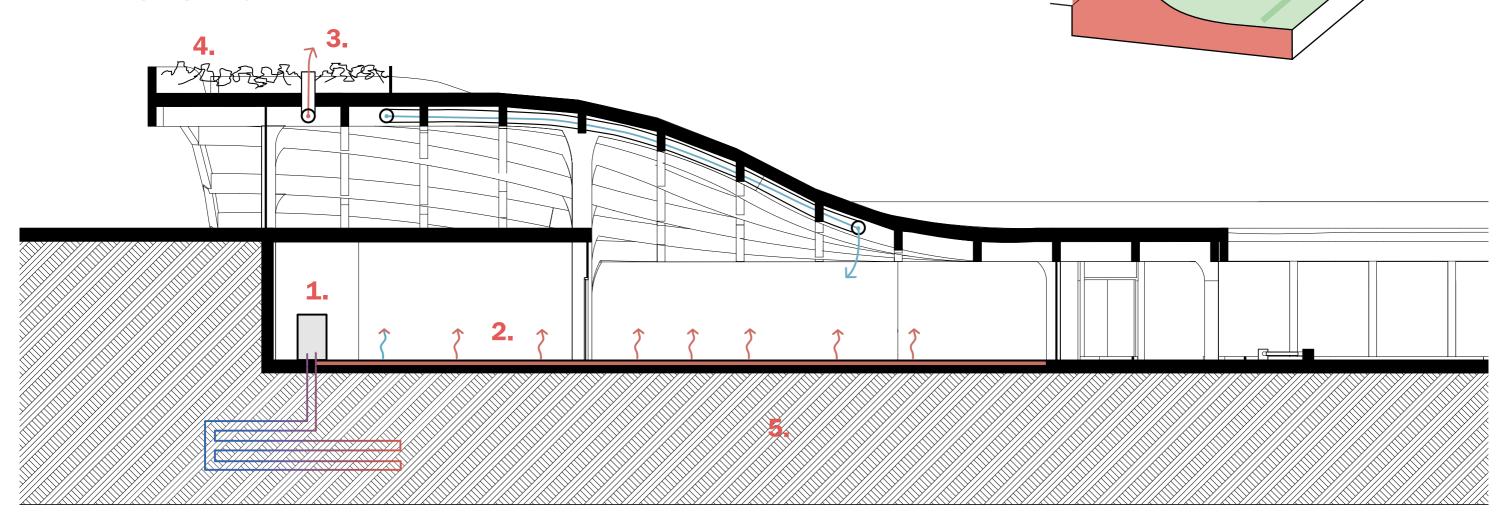


5. GREEN ROOF

REDUCES COOLING ENERGY

DIAGRAM CLIMATE

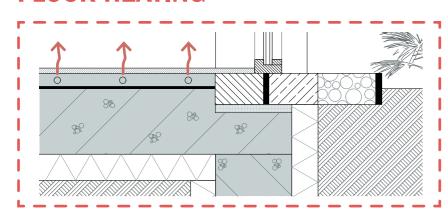
WINTER SITUATION



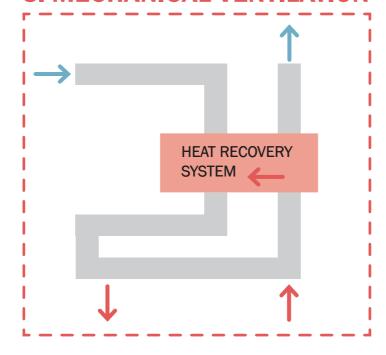
1. GEOTHERMAL HEAT PUMP

EXTRACTING WARMTH FROM THE SOIL

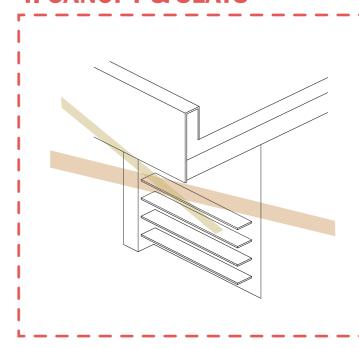
2. ENERGY SUFFICIENT FLOOR HEATING



3. MECHANICAL VENTILATION



4. CANOPY & SLATS

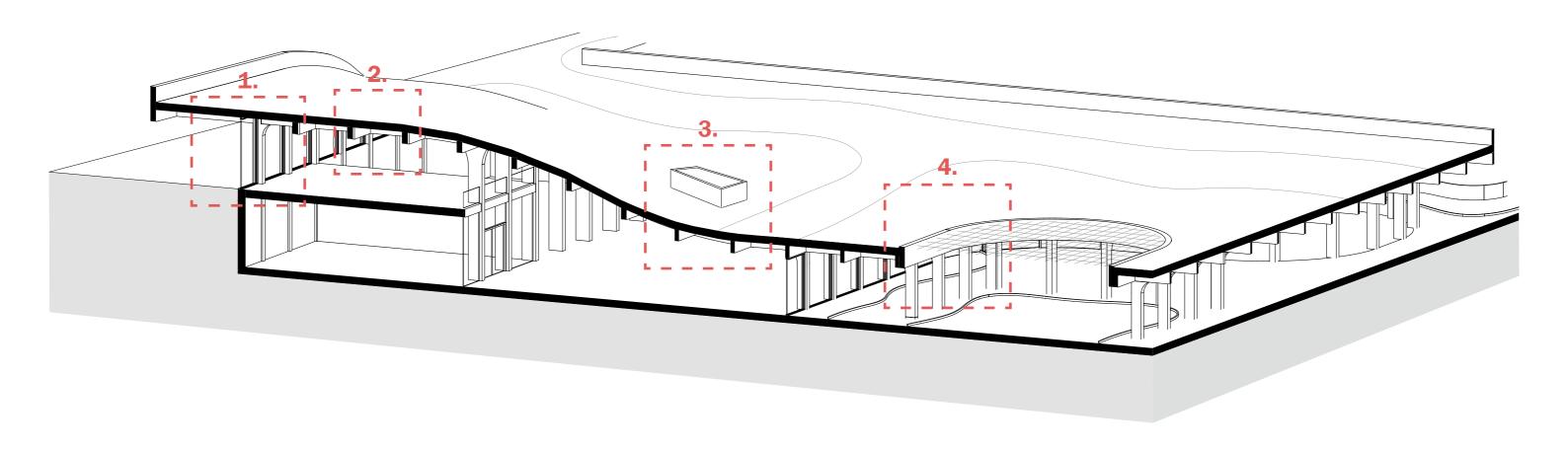


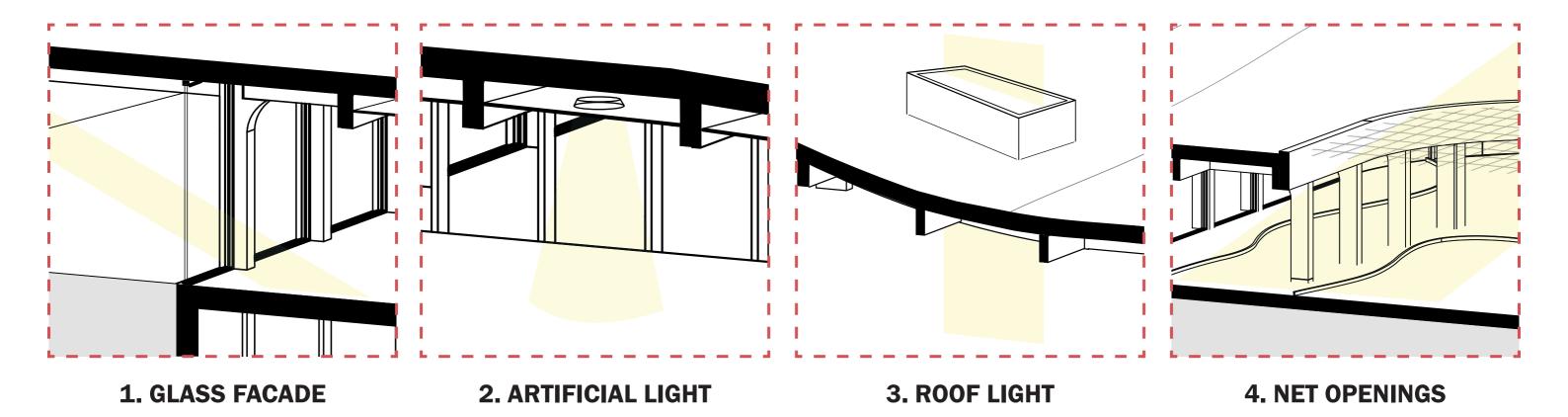
5. CONSTANT SOIL TEM-PERATURE

REDUCES HEATING ENERGY

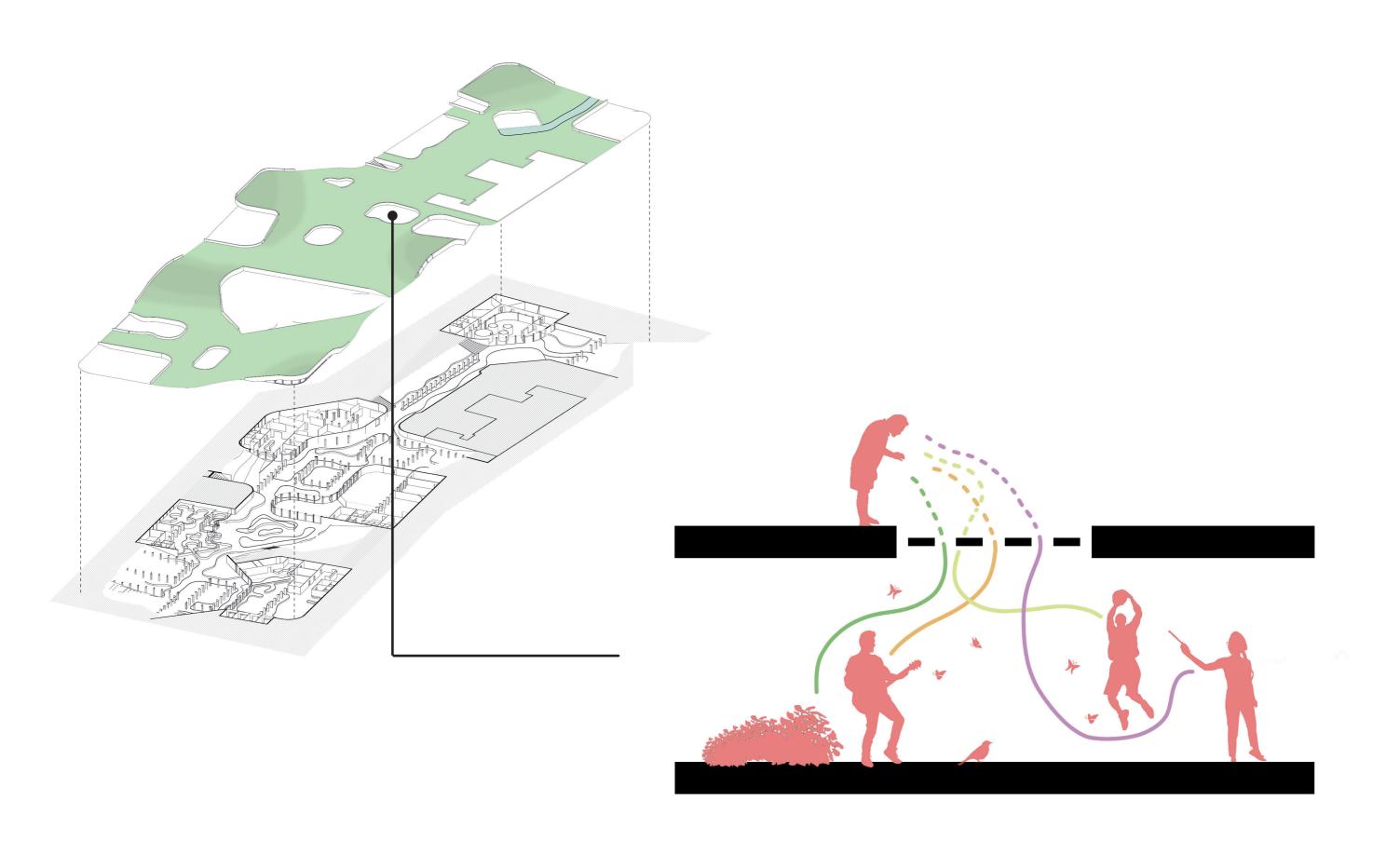
CONSTANT S
OIL TEMPERATURE
OF AROUND 10 °C

LIGHT PRINCIPLES



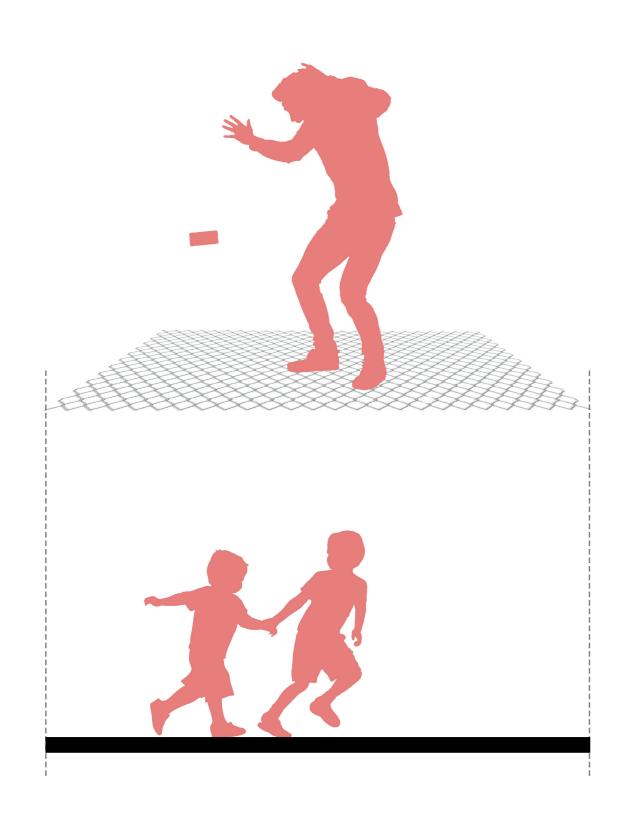


NET PRINCIPLE



NET PRINCIPLE SAFETY

MOST COMMON PRODUCTS FALLING OUT OF POCKETS





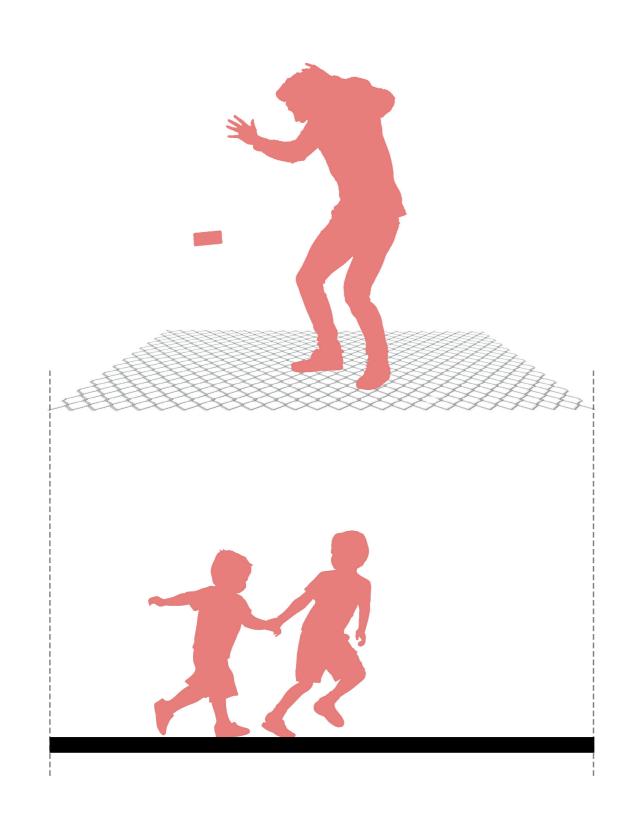


7 x 14,5 cm

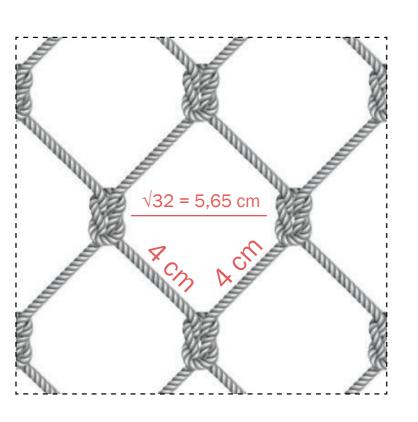
9 x 12 cm

NET PRINCIPLE SAFETY

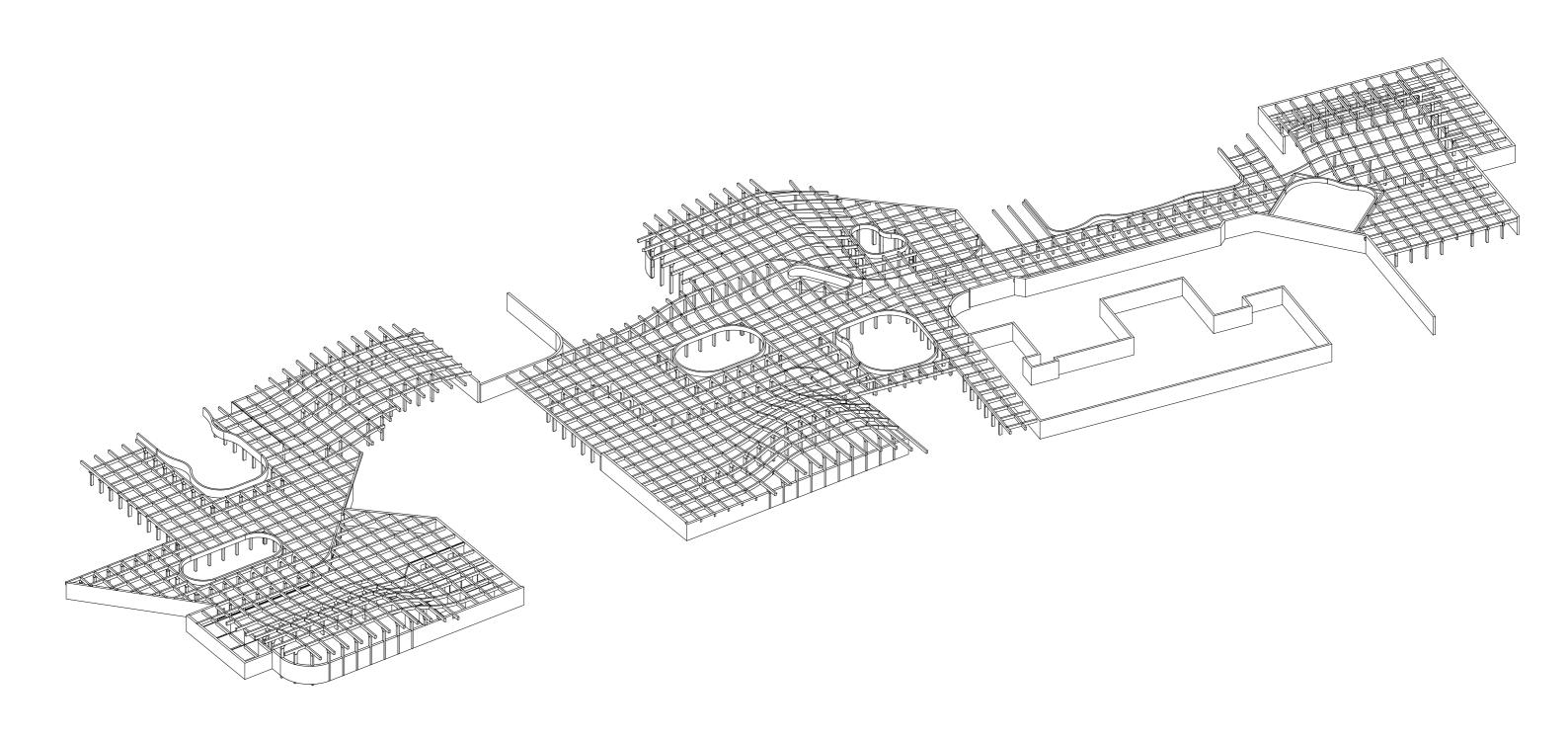
MOST COMMON PRODUCTS FALLING OUT OF POCKETS



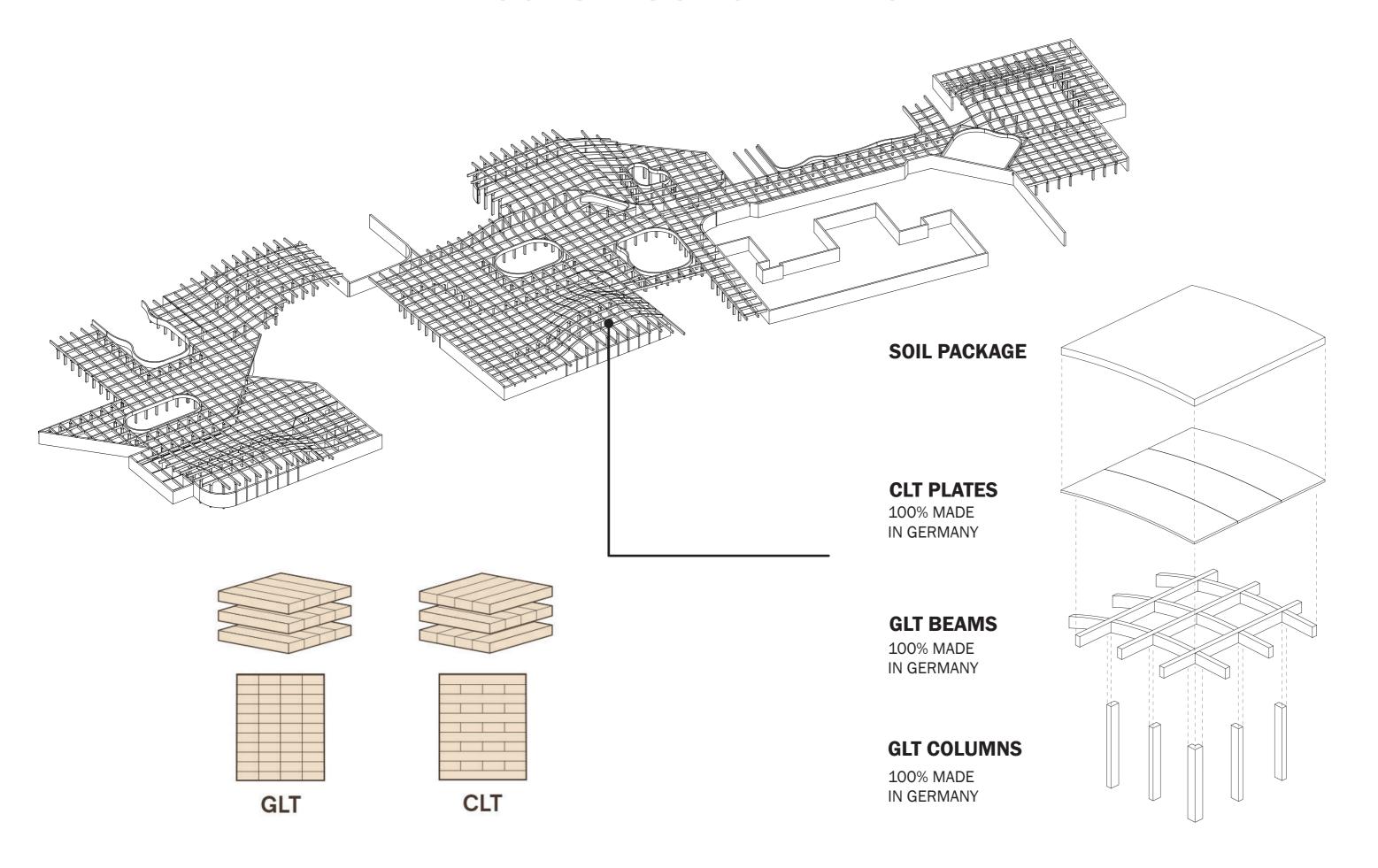




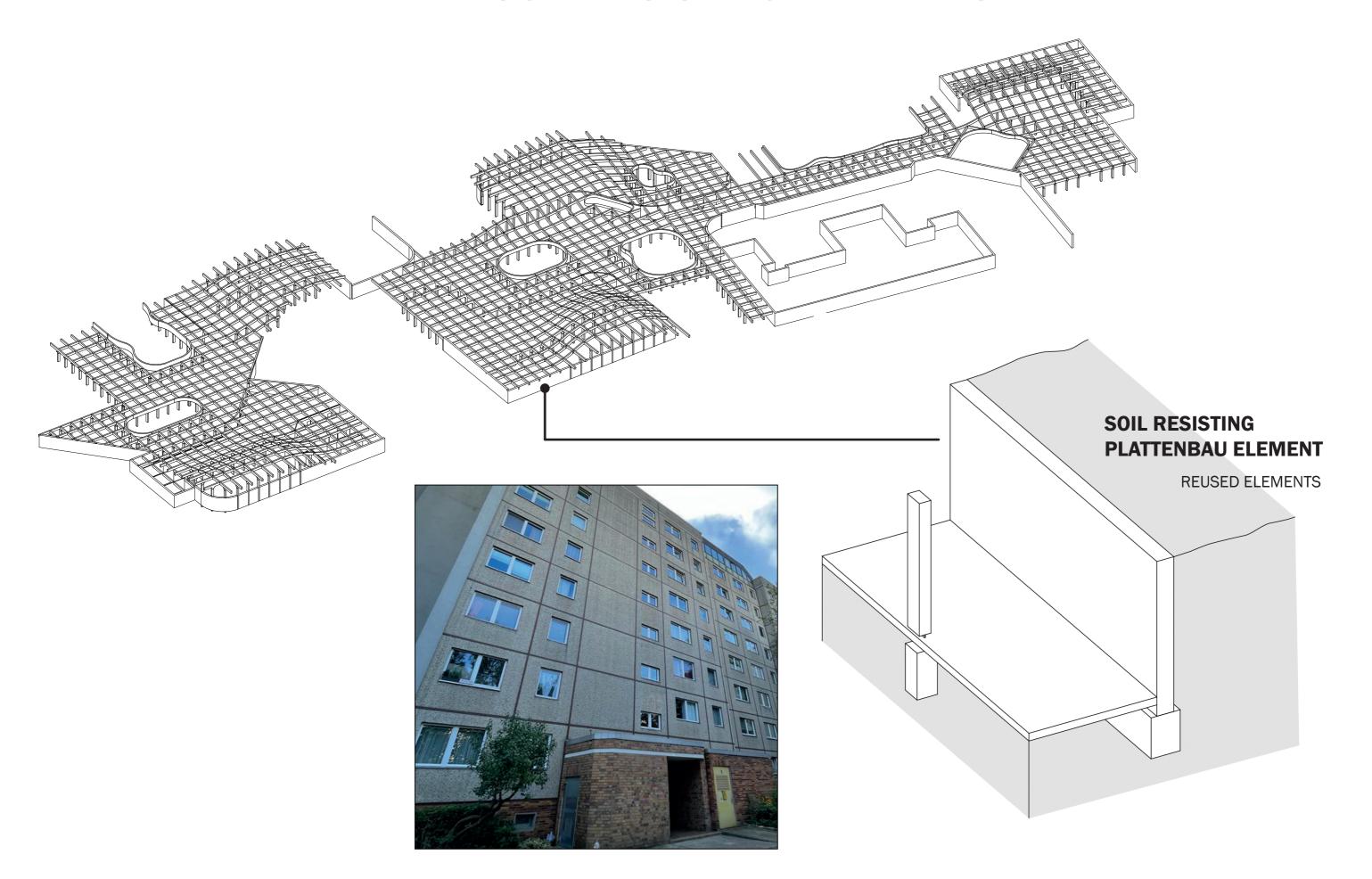
LOAD BEARING STRUCTURE



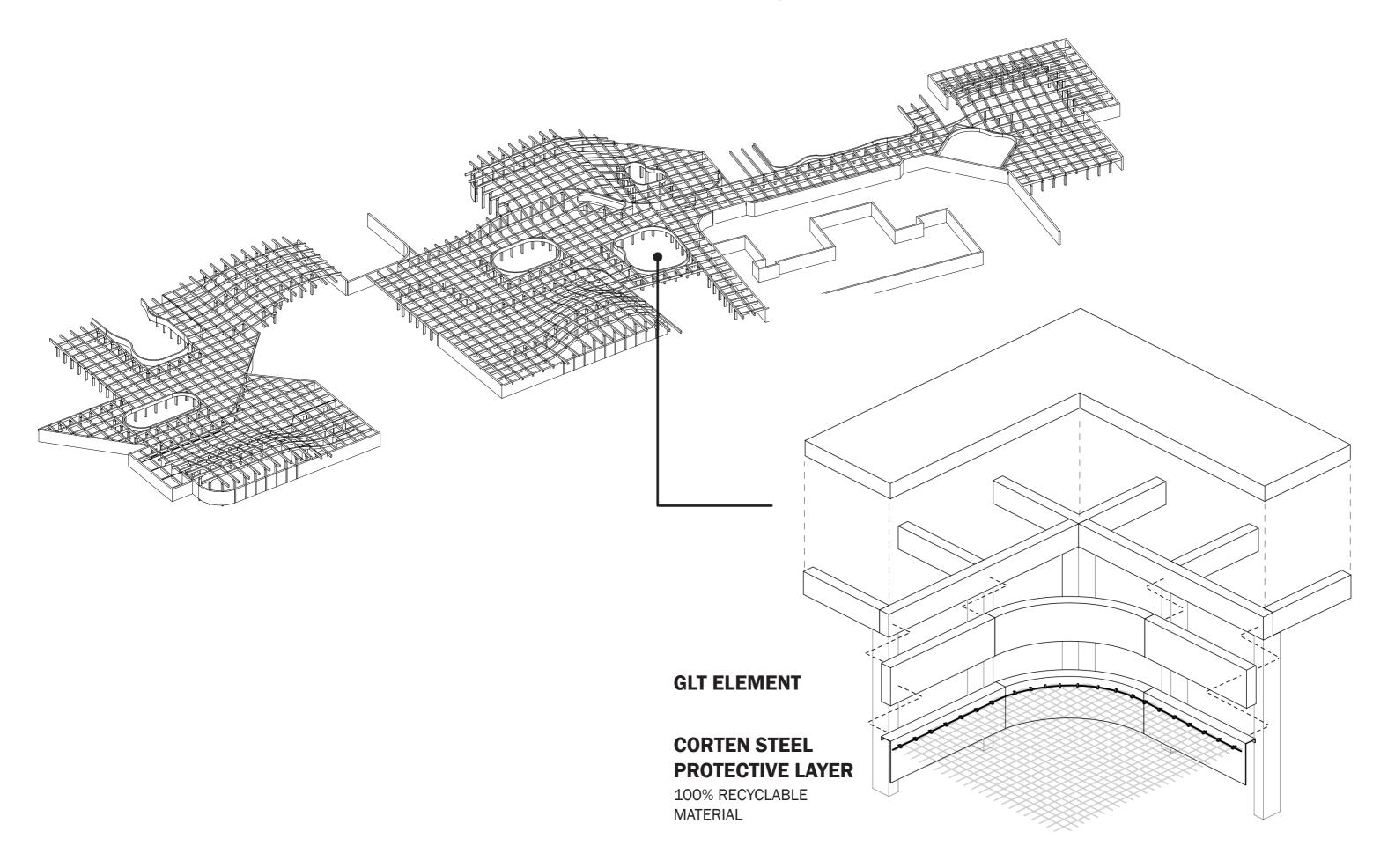
LOAD BEARING STRUCTURE CONSTRUCTION PRINCIPLE



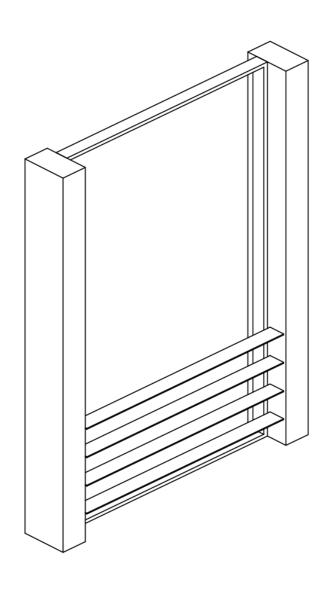
LOAD BEARING STRUCTURE SOIL RESISTING ELEMENTS



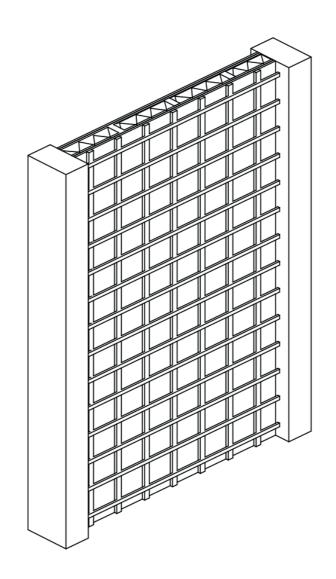
LOAD BEARING STRUCTURE NET PRINCIPLE



FACADES PRINCIPLE

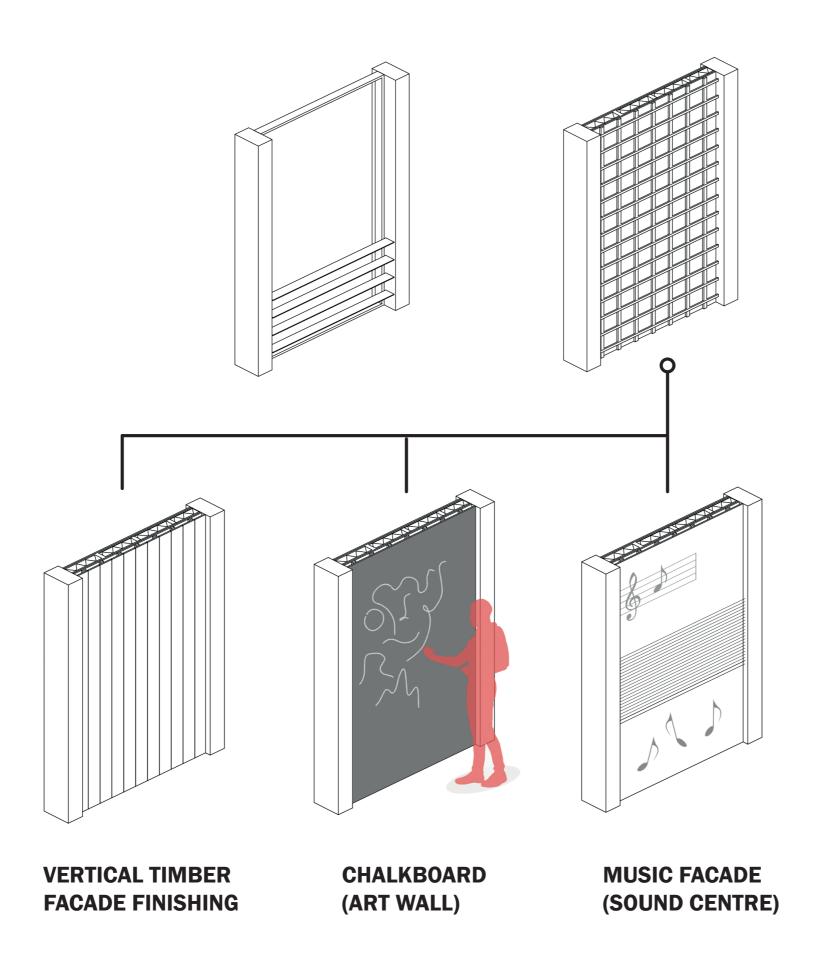


1. GLASS PANEL



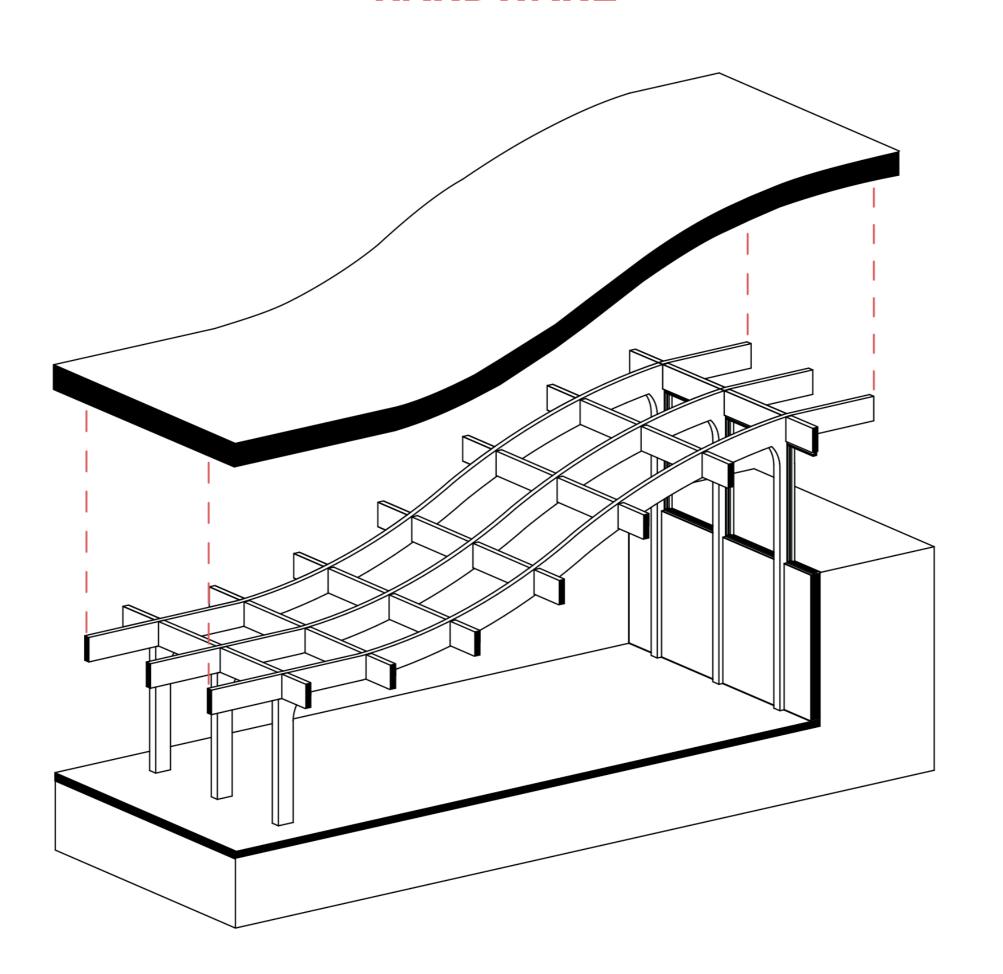
2. TIMBER FRAME CONSTRUCTION

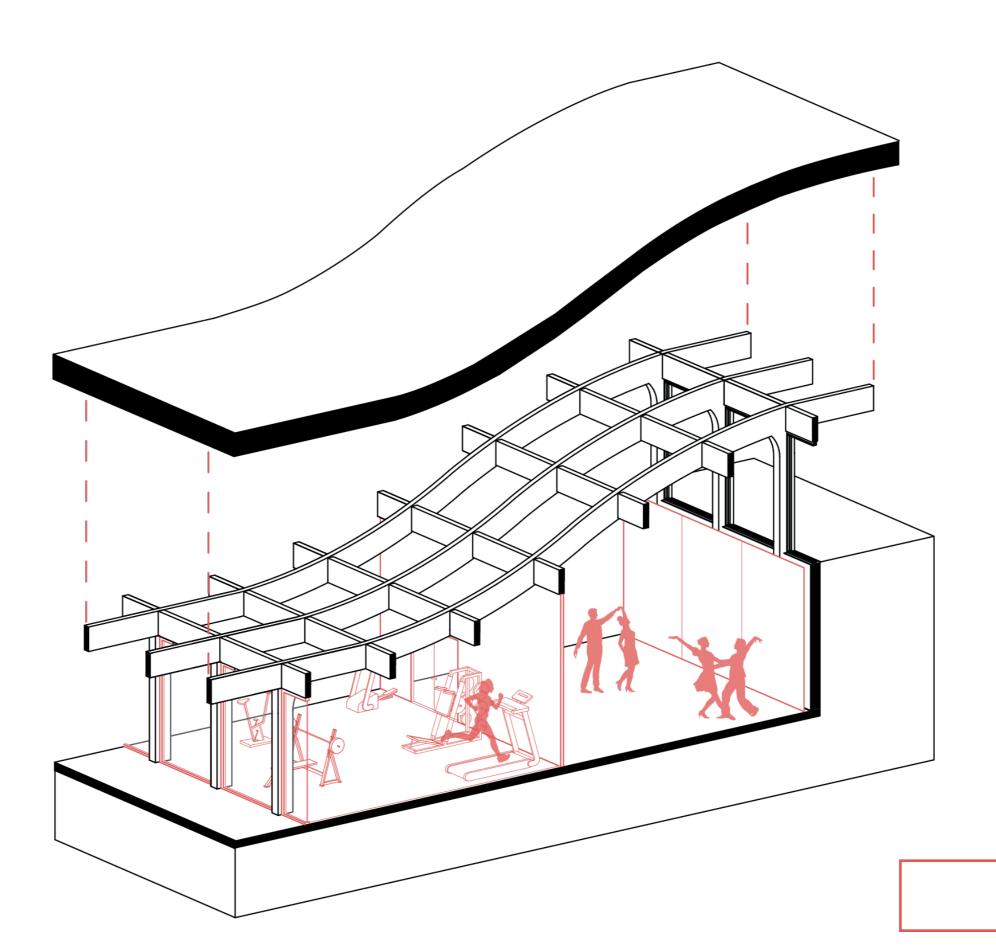
FACADES PRINCIPLE



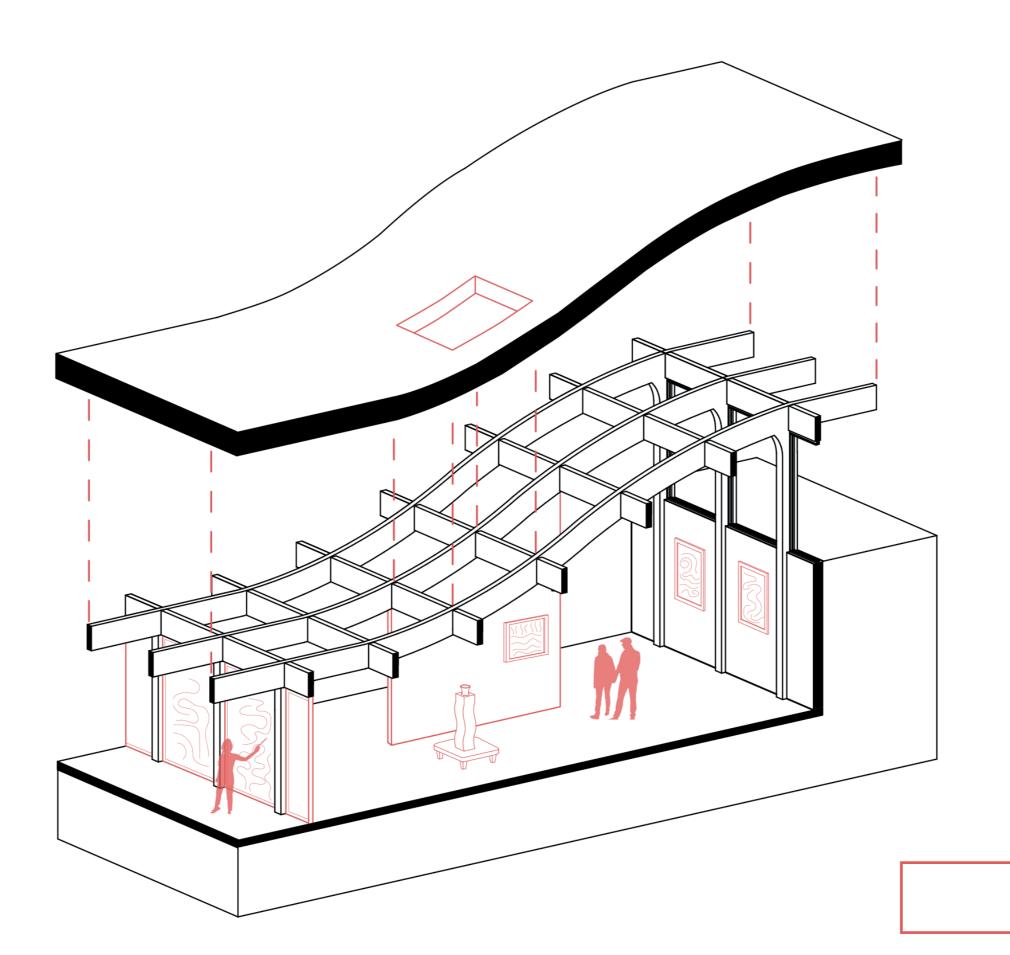
FUNCTIONAL FACADE INTERACTIVE DESIGN

PAVILION INFILLS 'HARDWARE'

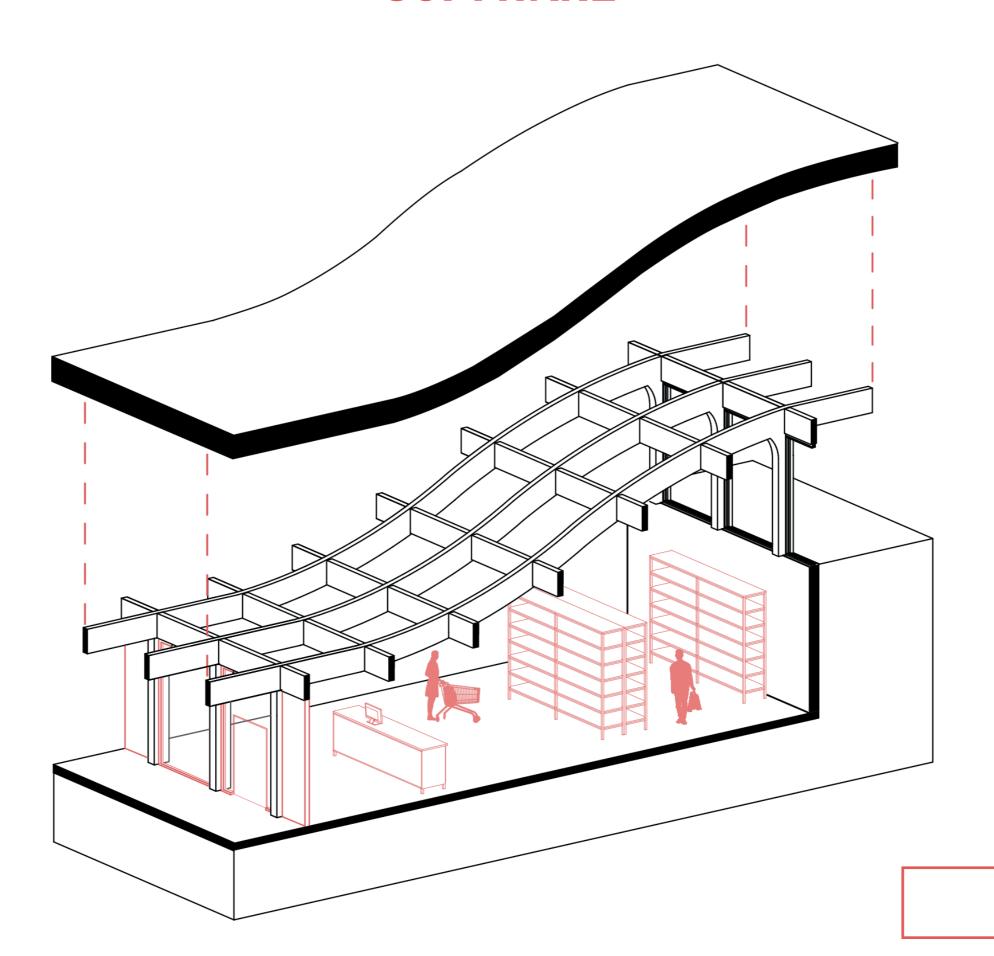




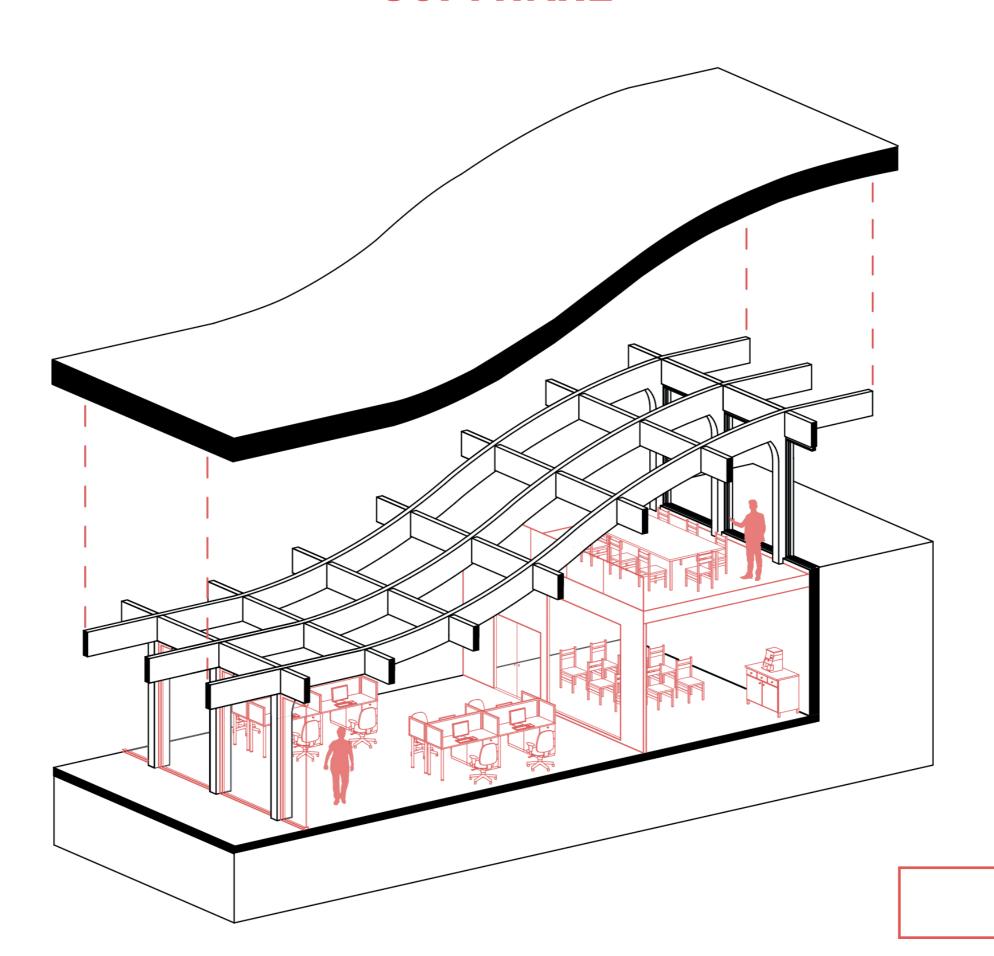
SPORTS



ART

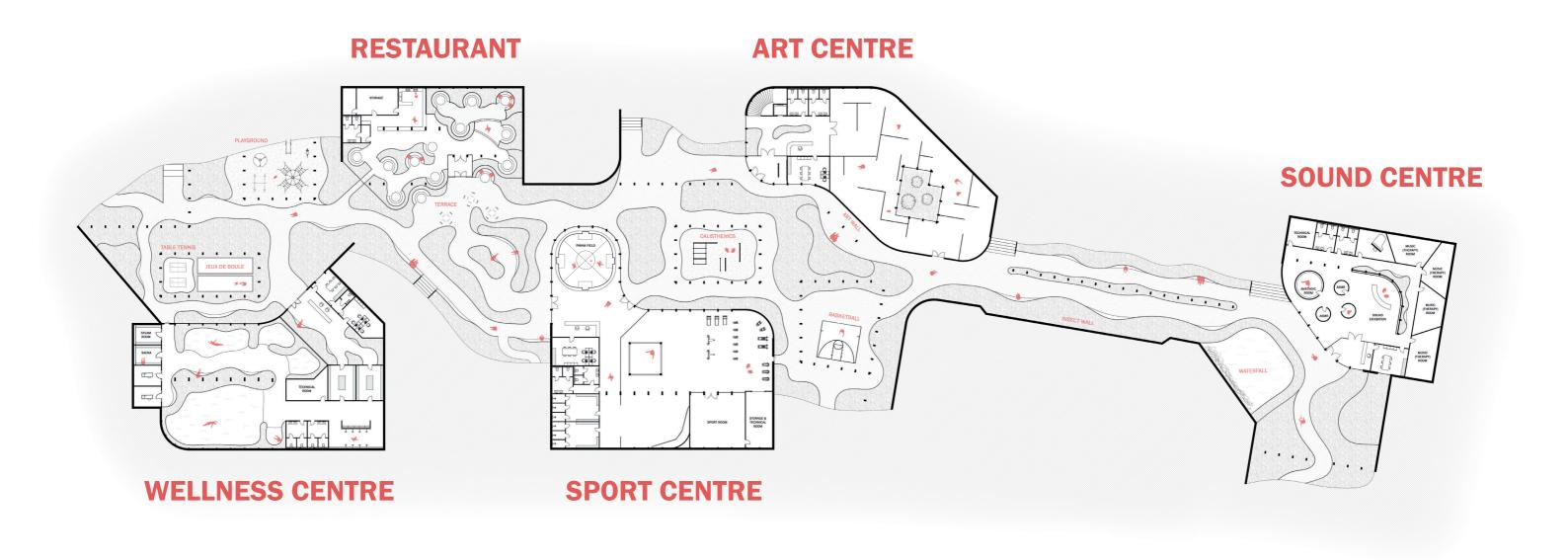


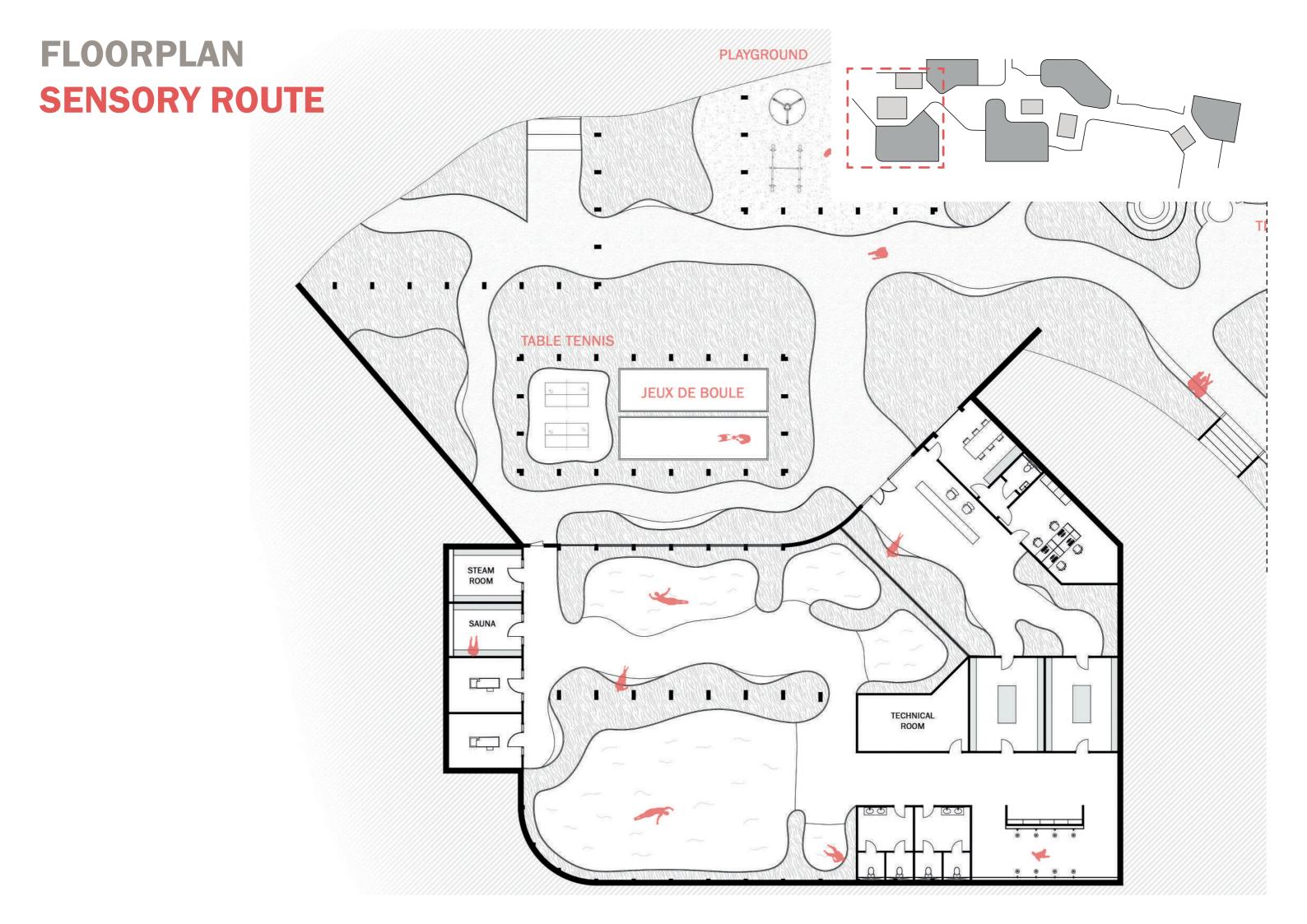
SHOP



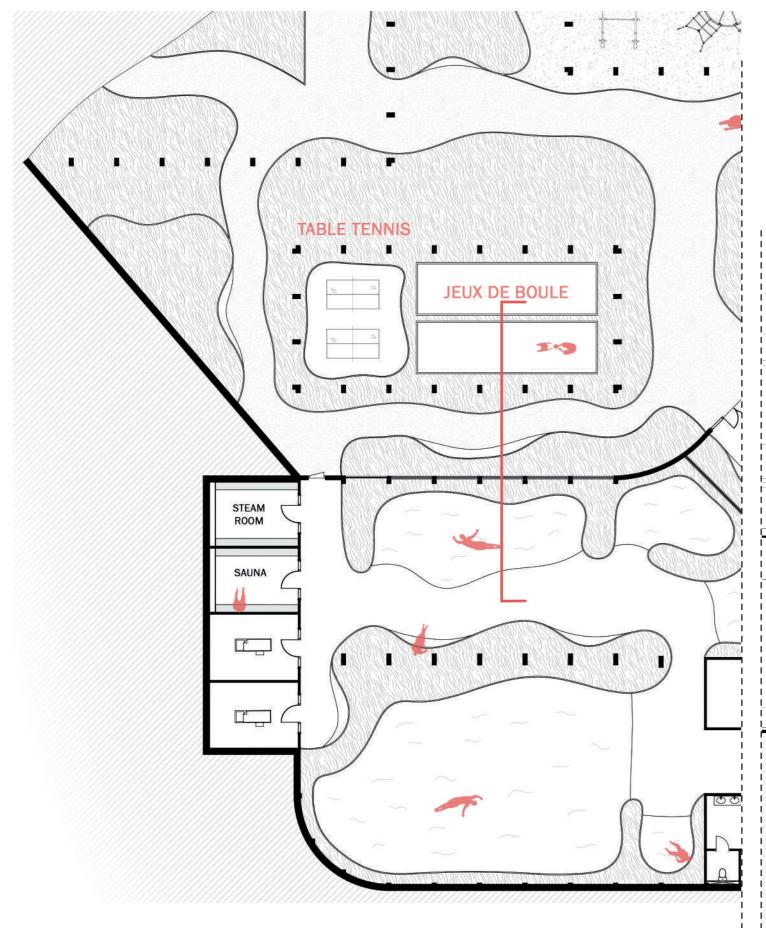
OFFICE

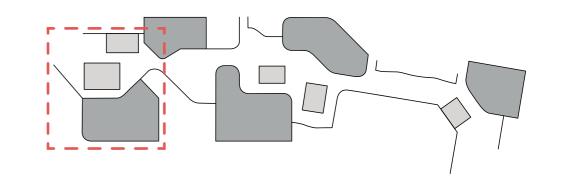
FLOORPLAN SENSORY ROUTE

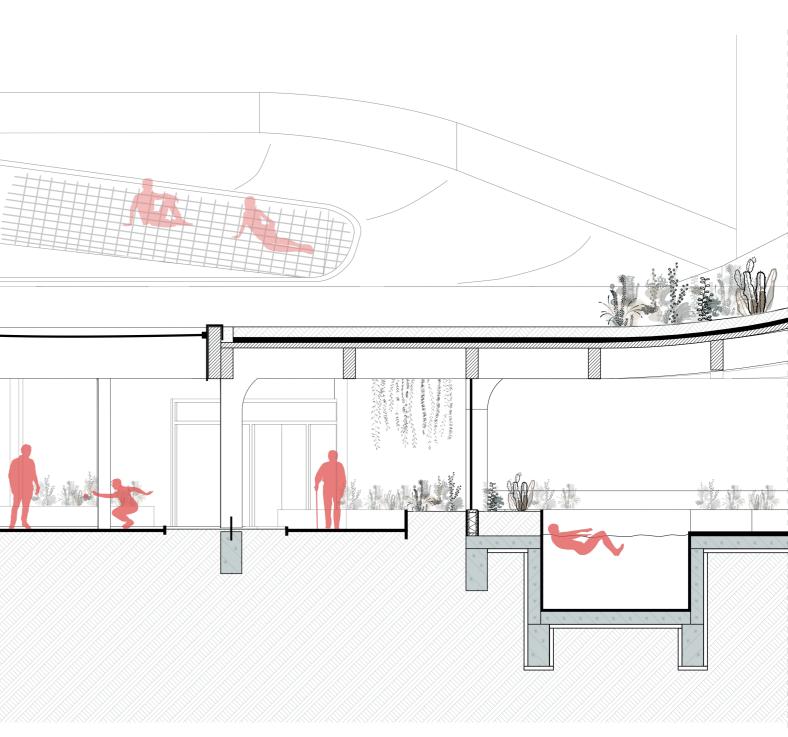


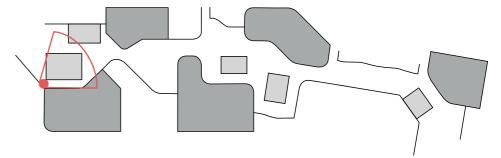


FLOORPLAN & SECTION SENSORY ROUTE





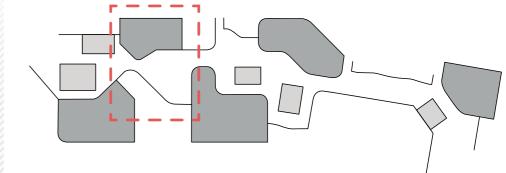






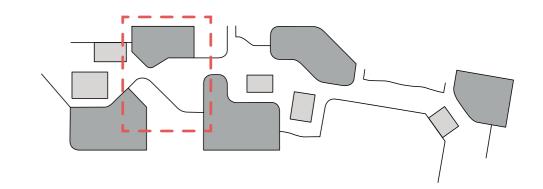


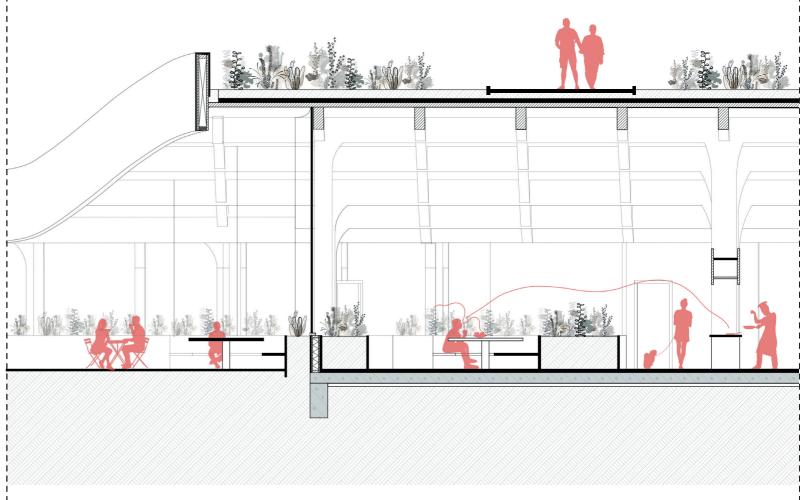






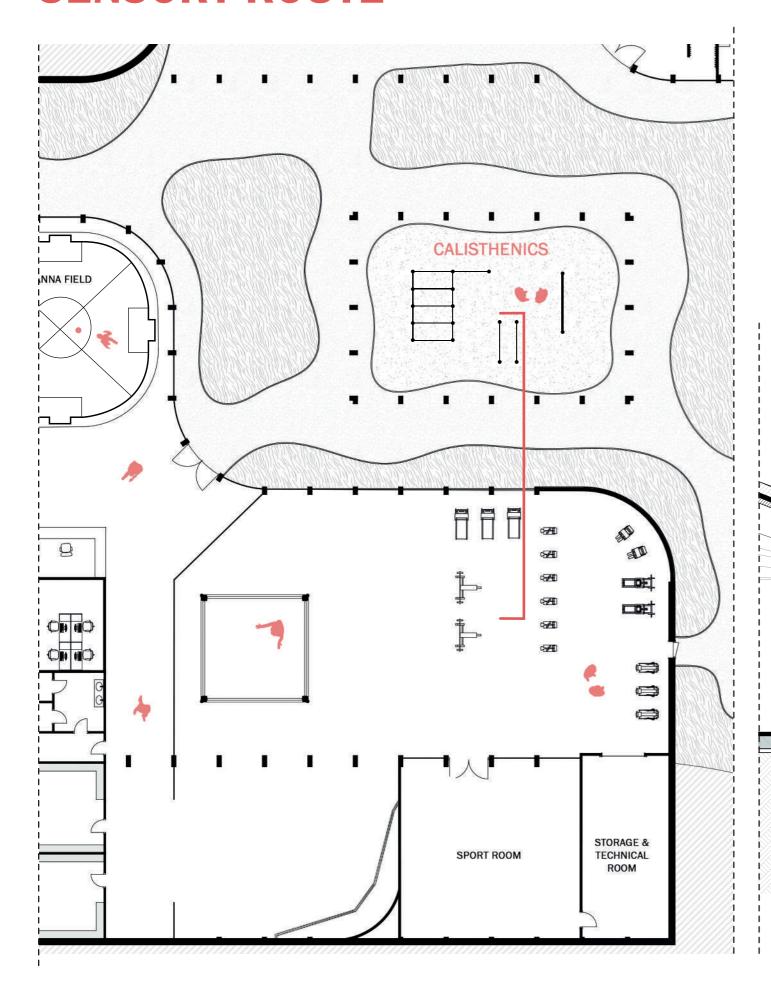
FLOORPLAN SENSORY ROUTE STORAGE TERRACE

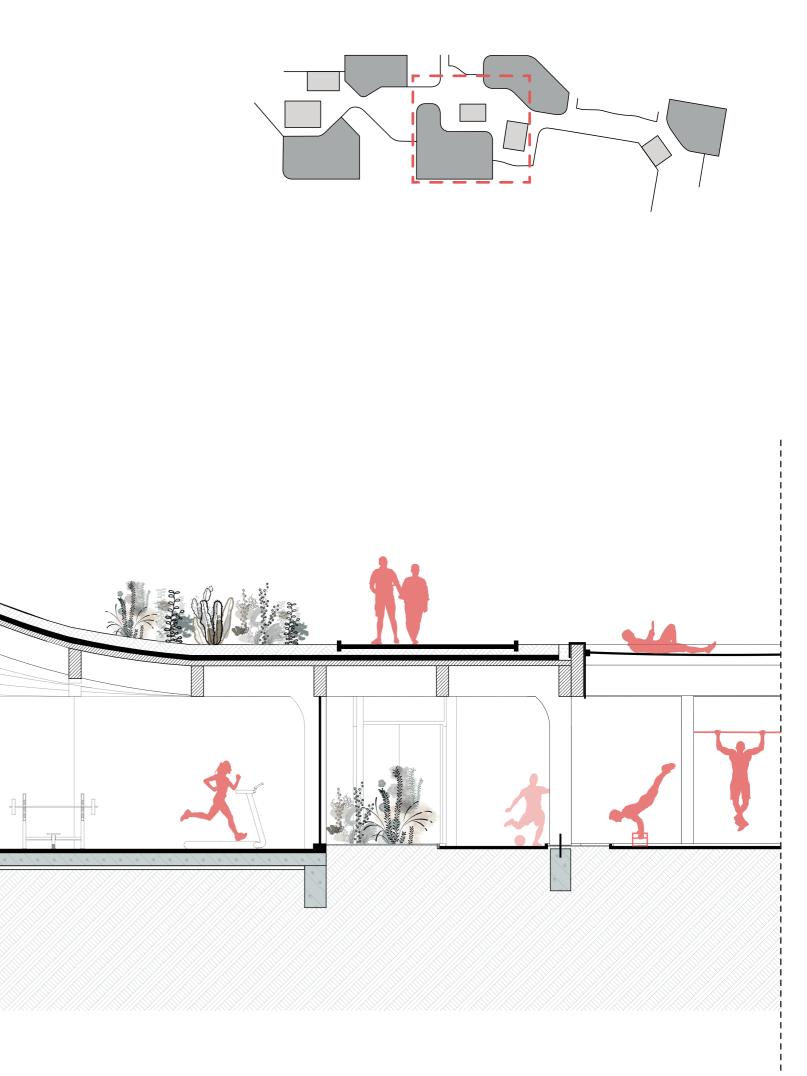






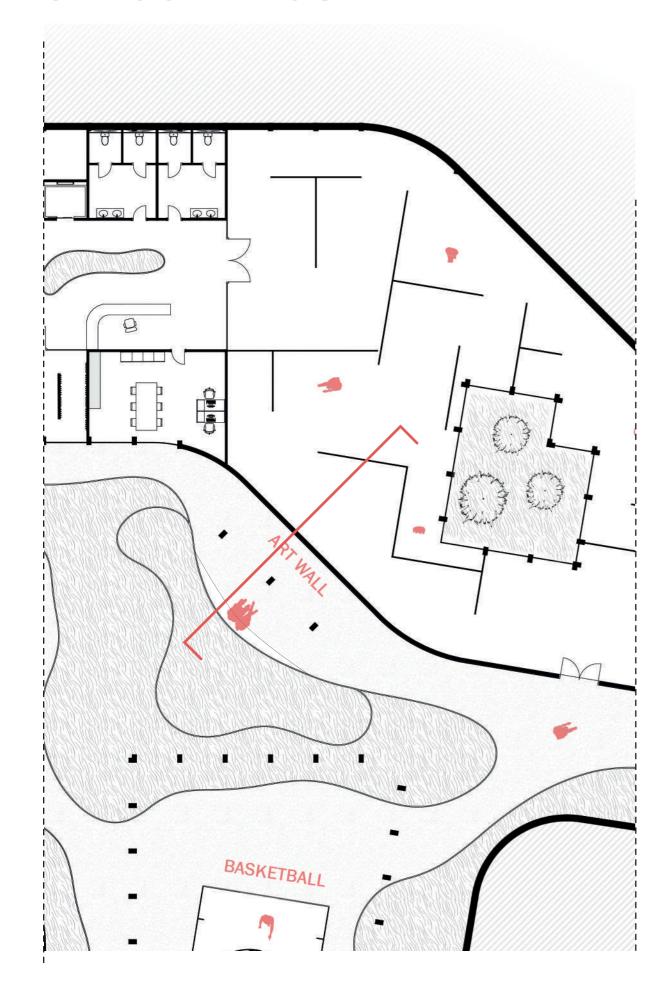
FLOORPLAN SENSORY ROUTE CALISTHENICS PANNA FIELD BASKETBALL 9 9 STORAGE & SPORT ROOM TECHNICAL ROOM

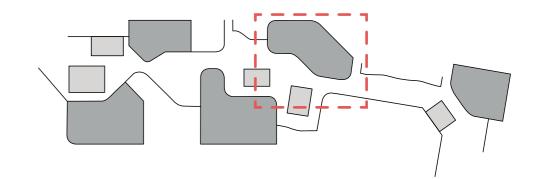




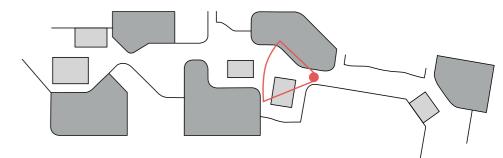




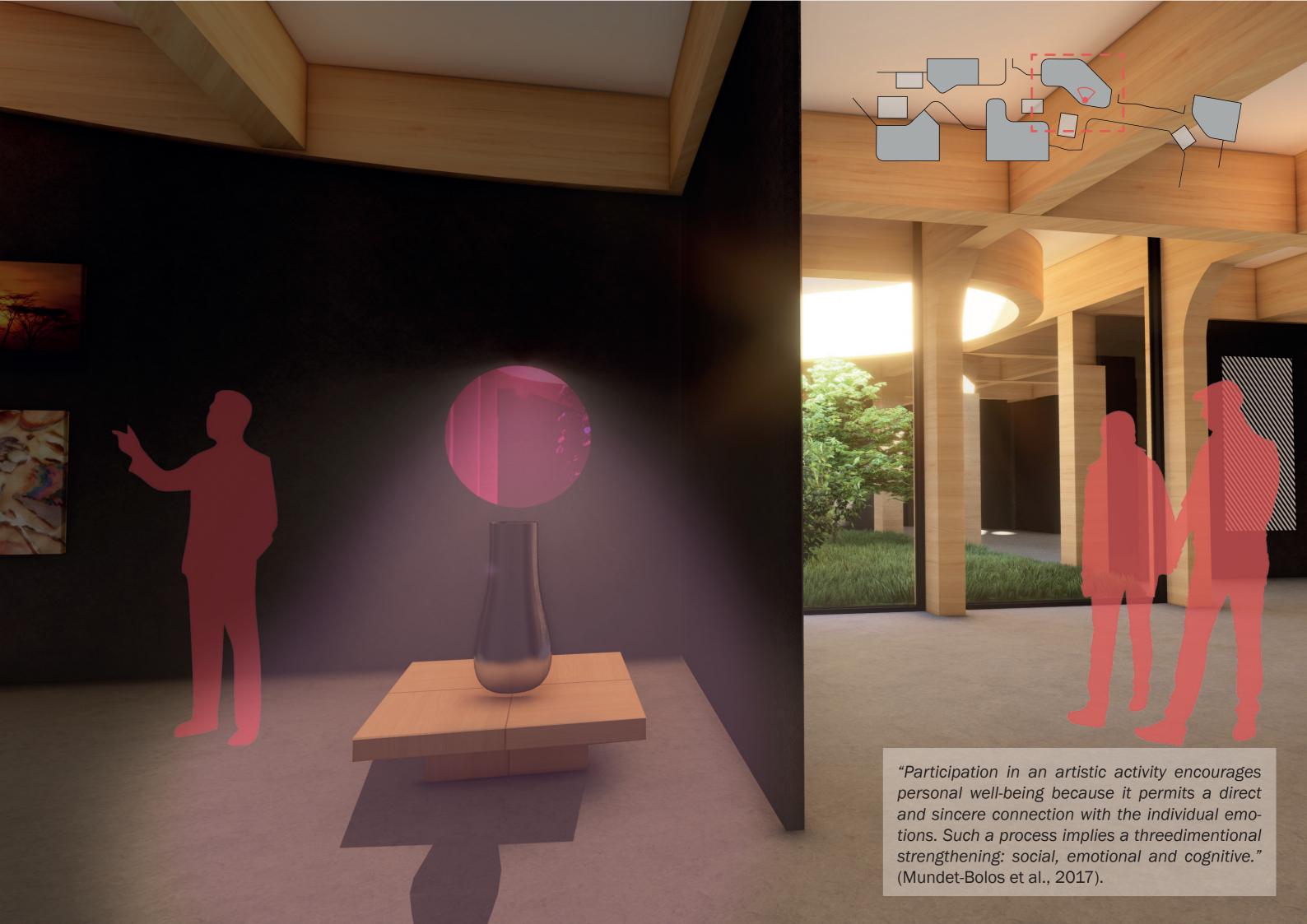


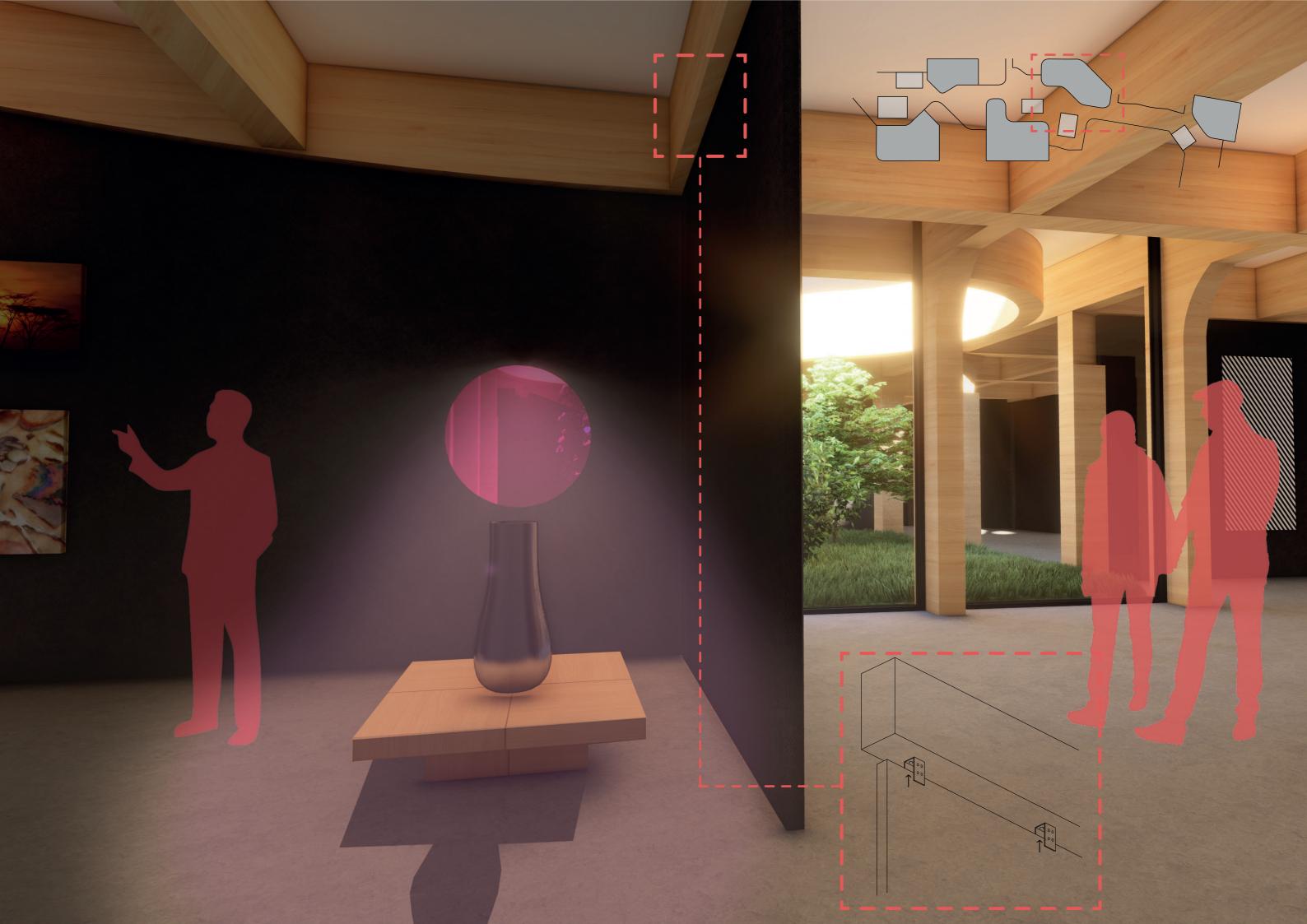












FLOORPLAN SENSORY ROUTE TECHNICA ROOM INSECT WALL WATERFALL

