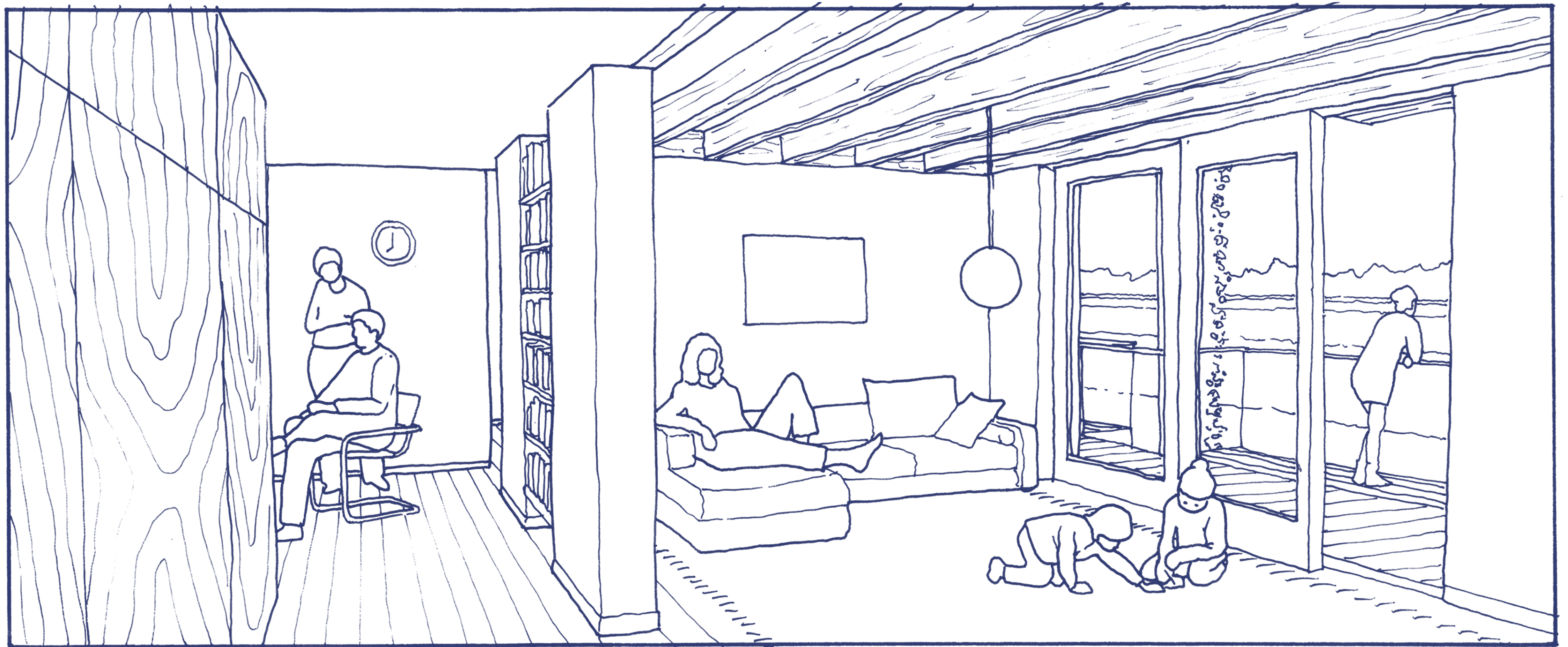
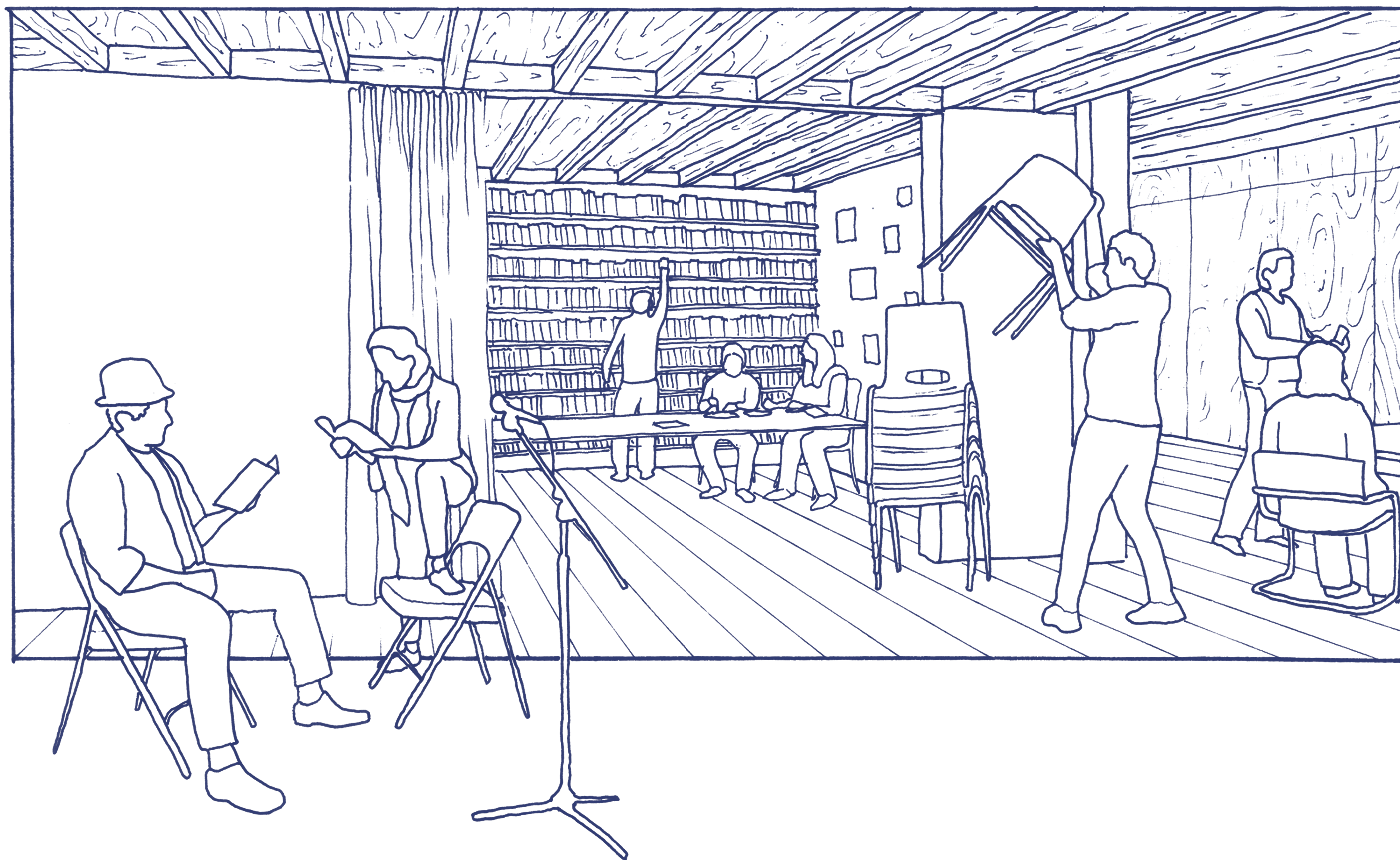
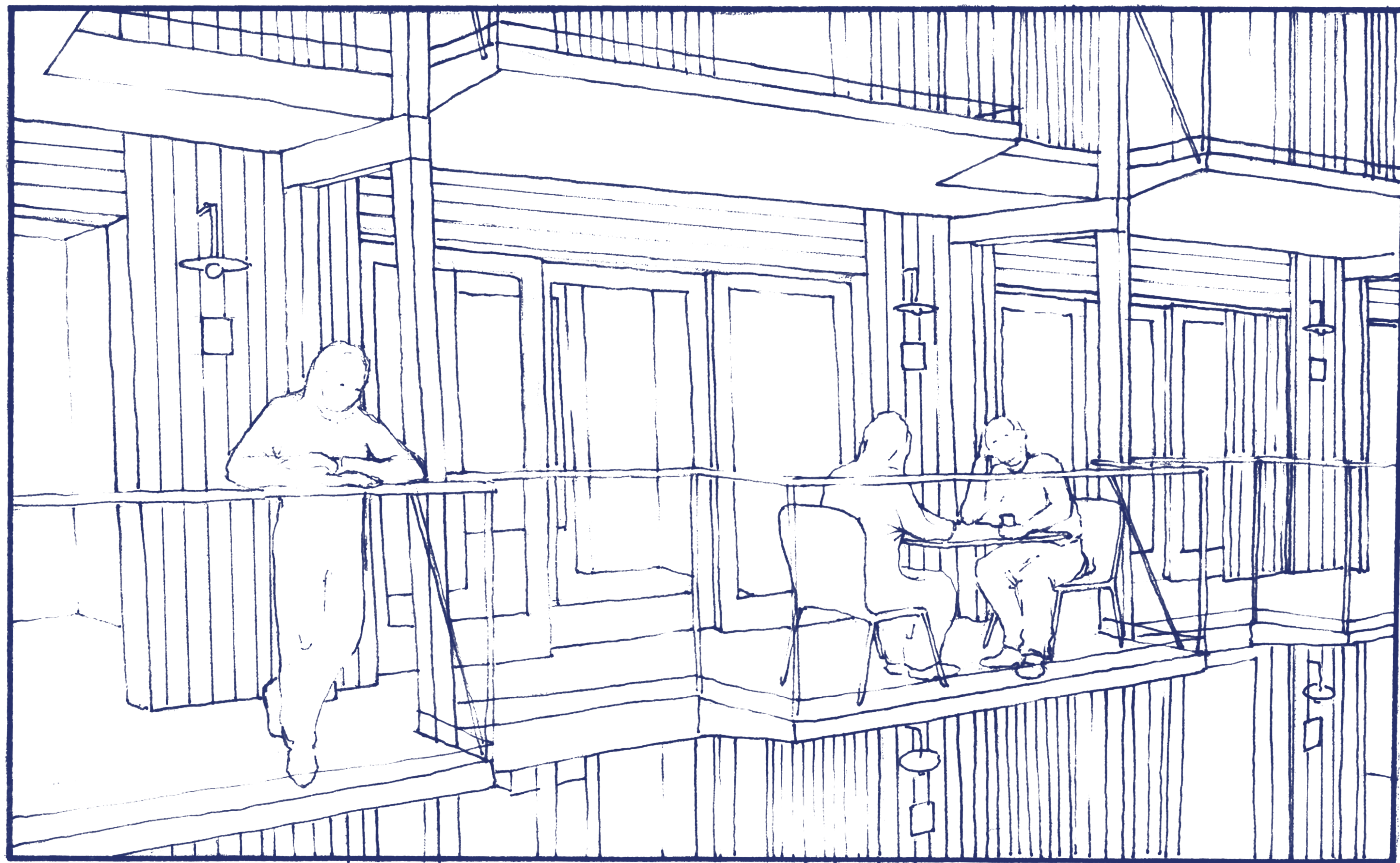
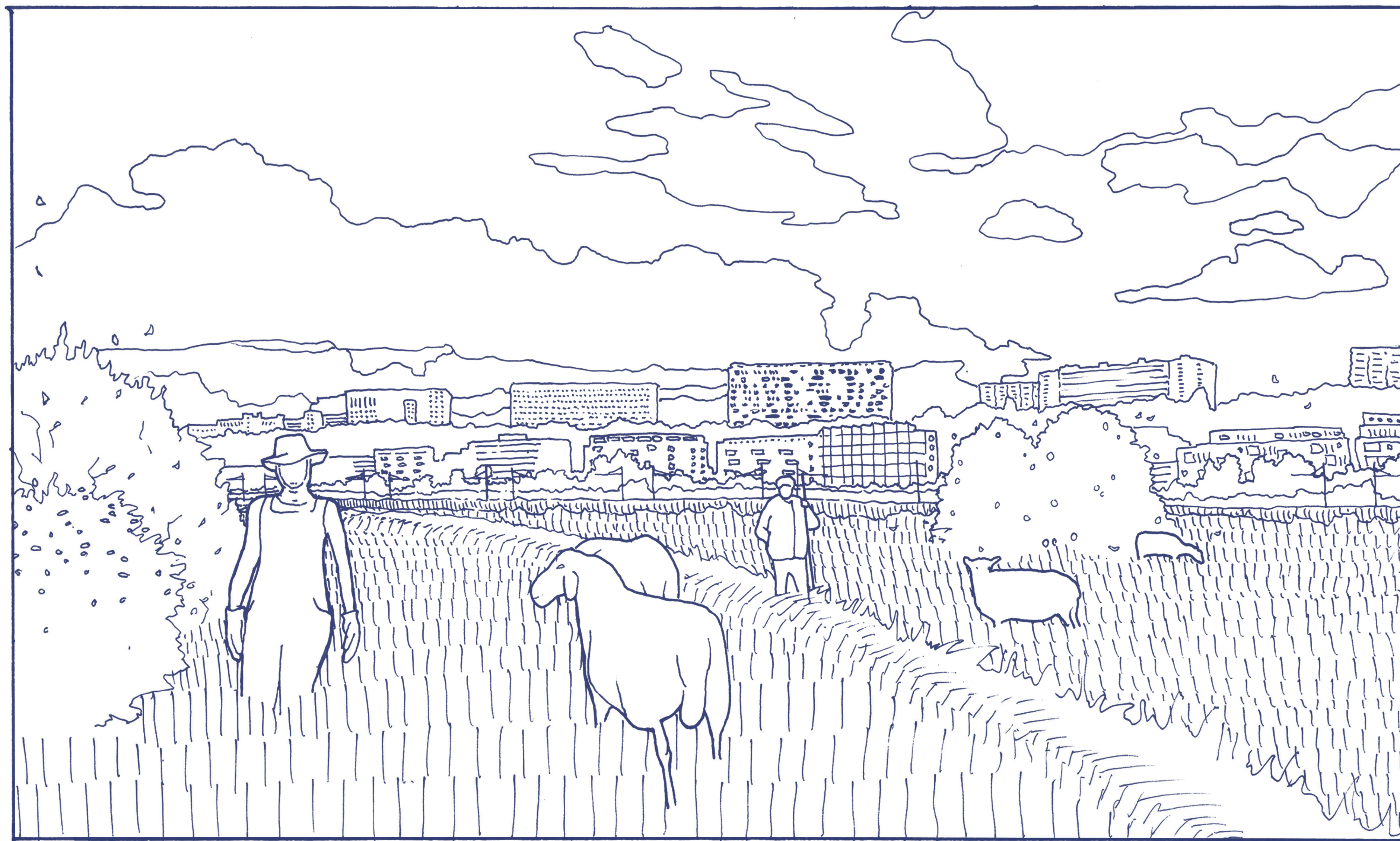
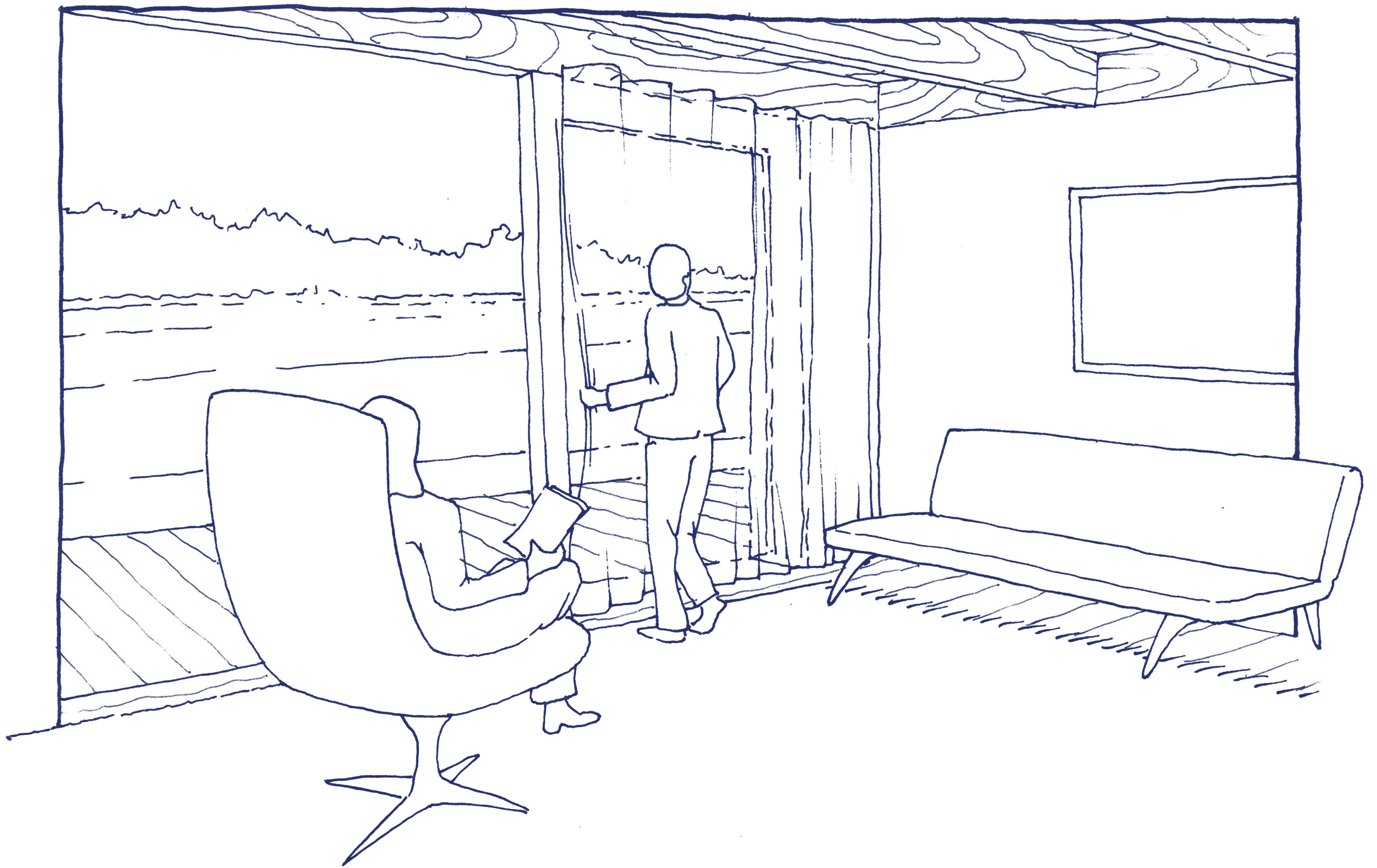


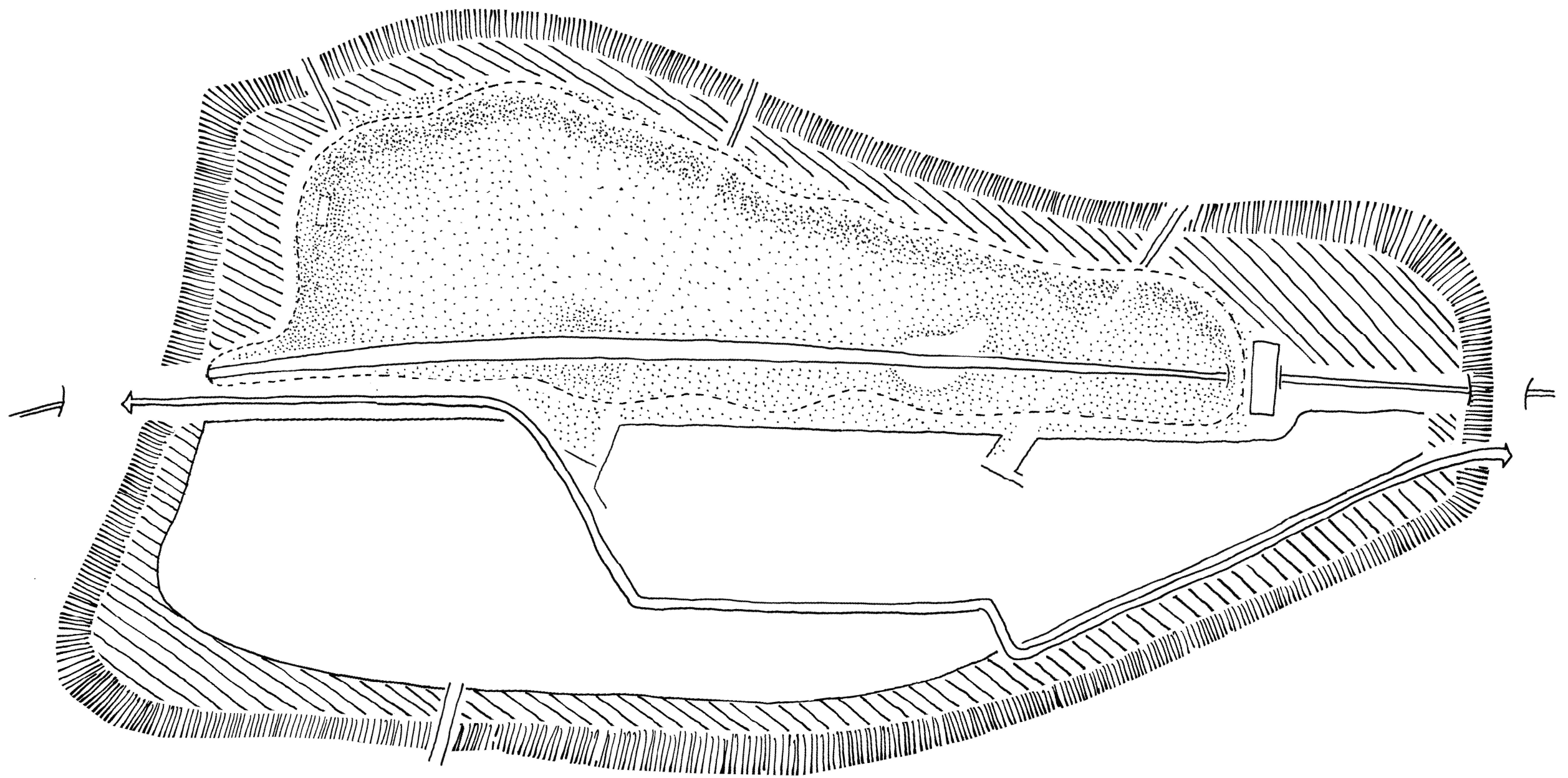


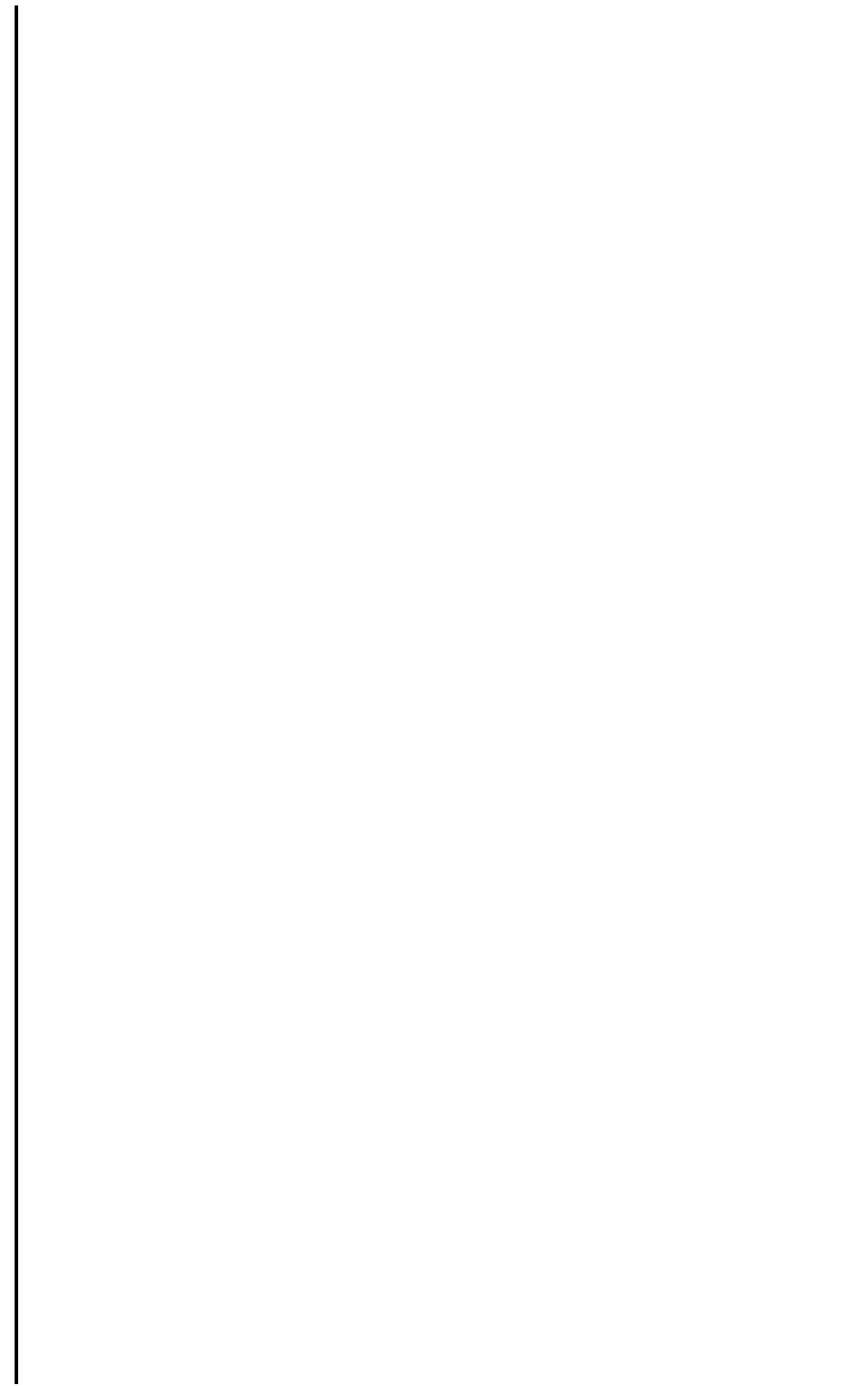
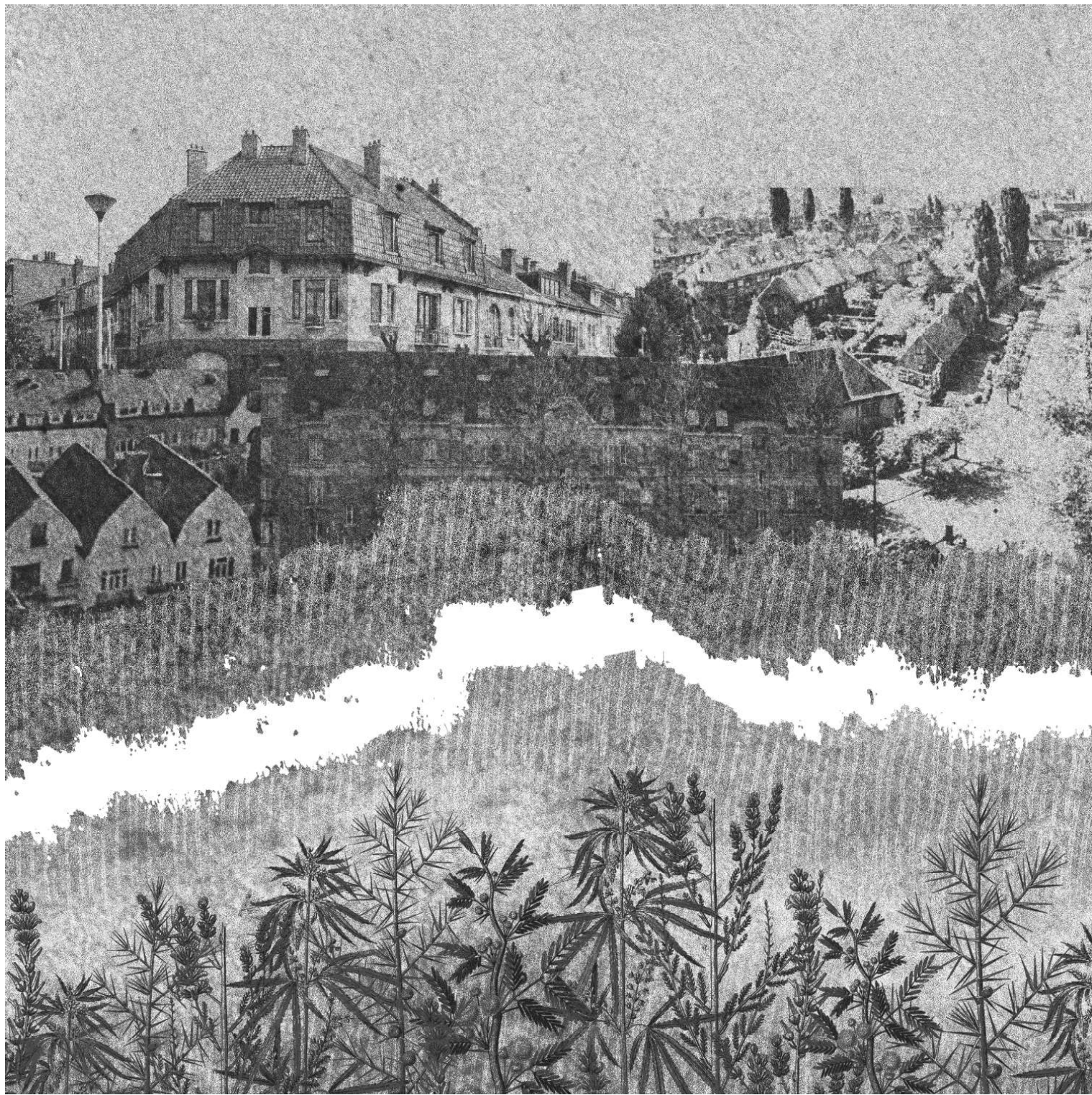


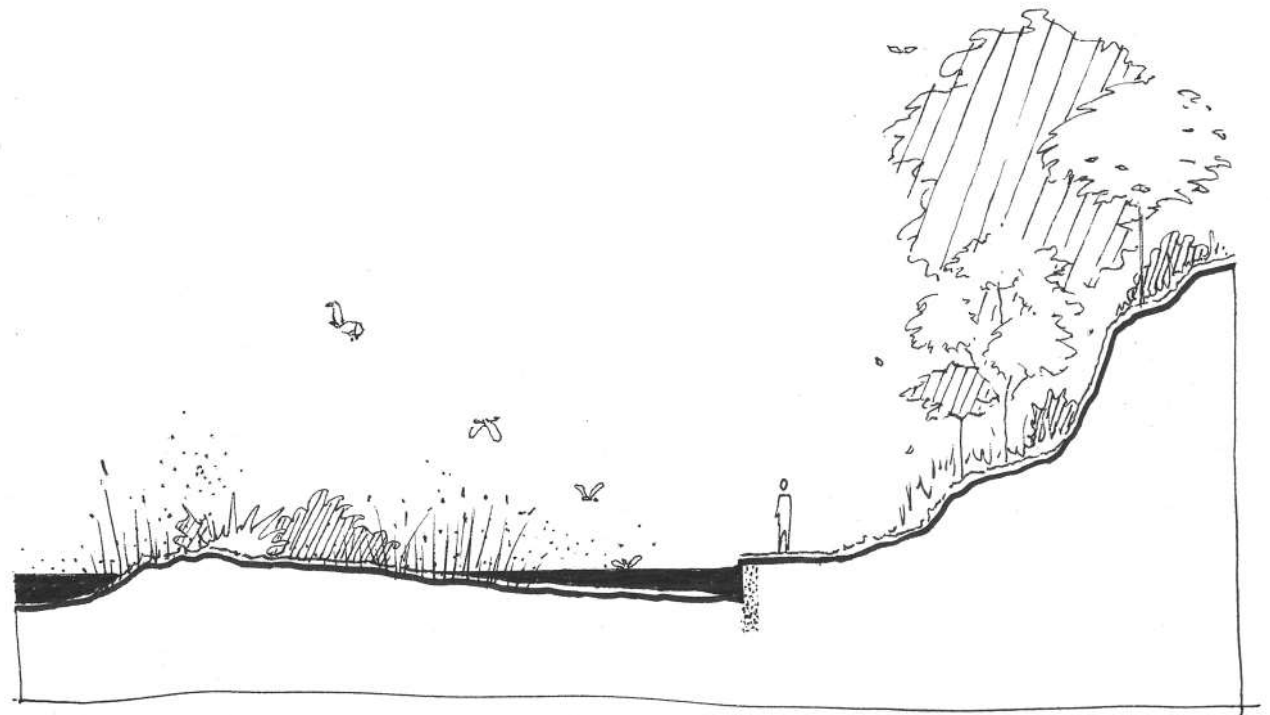


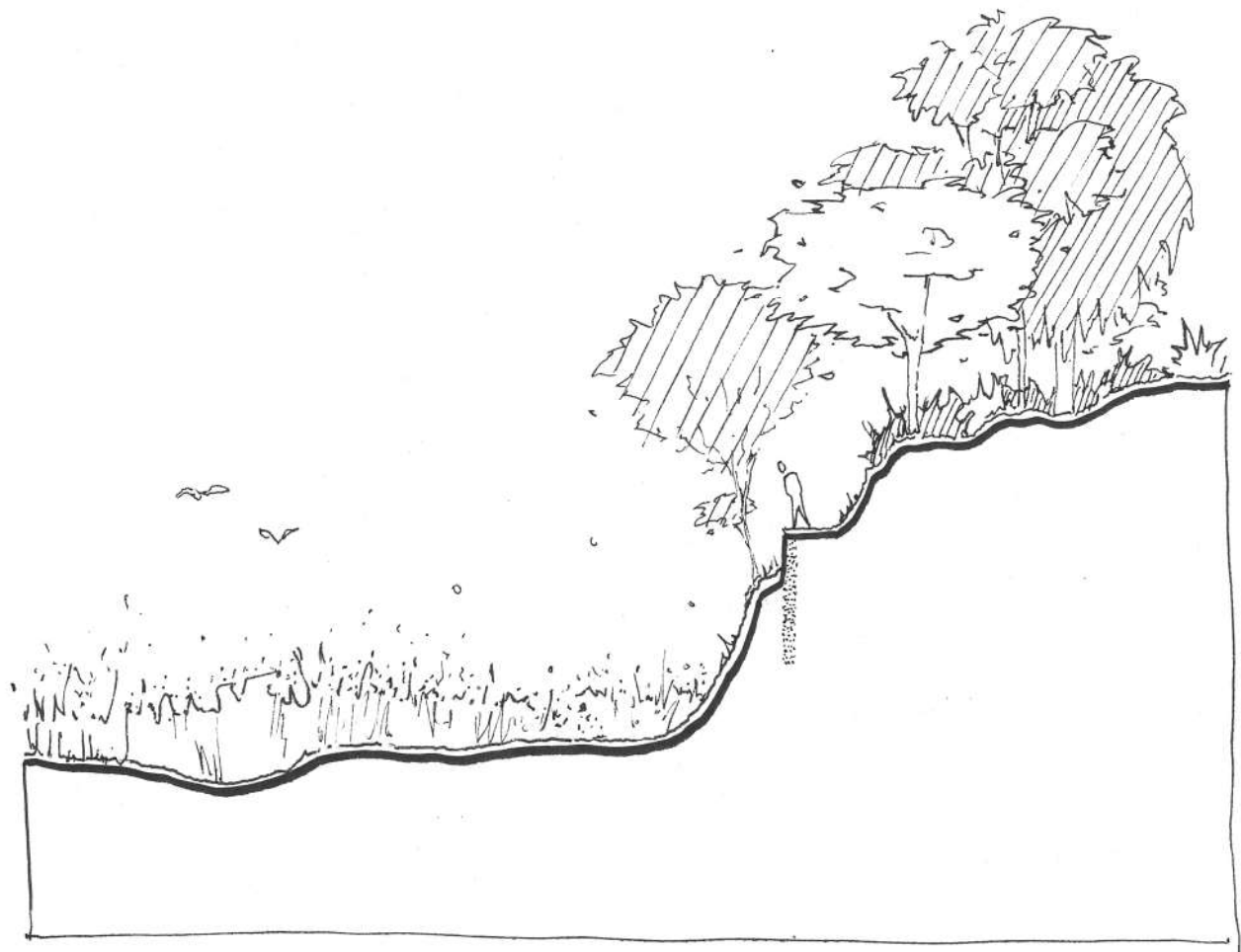


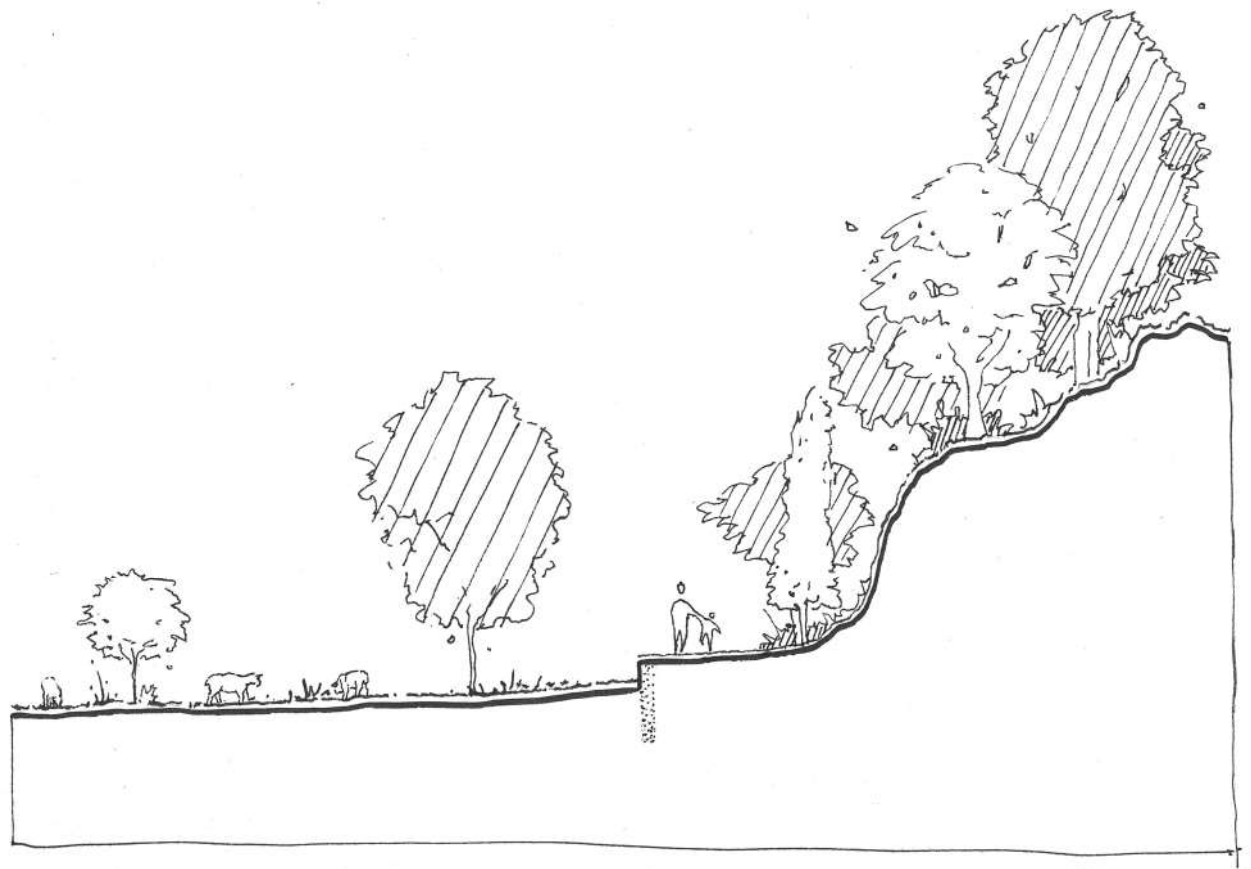


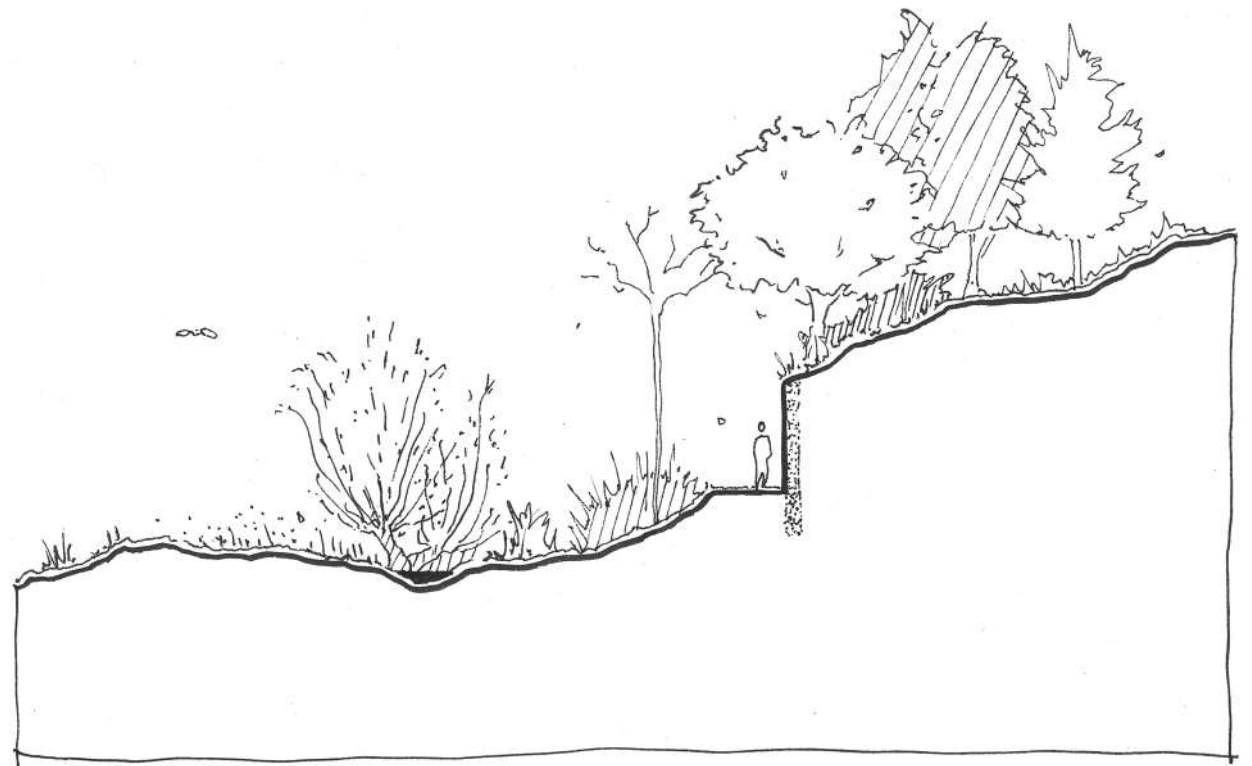


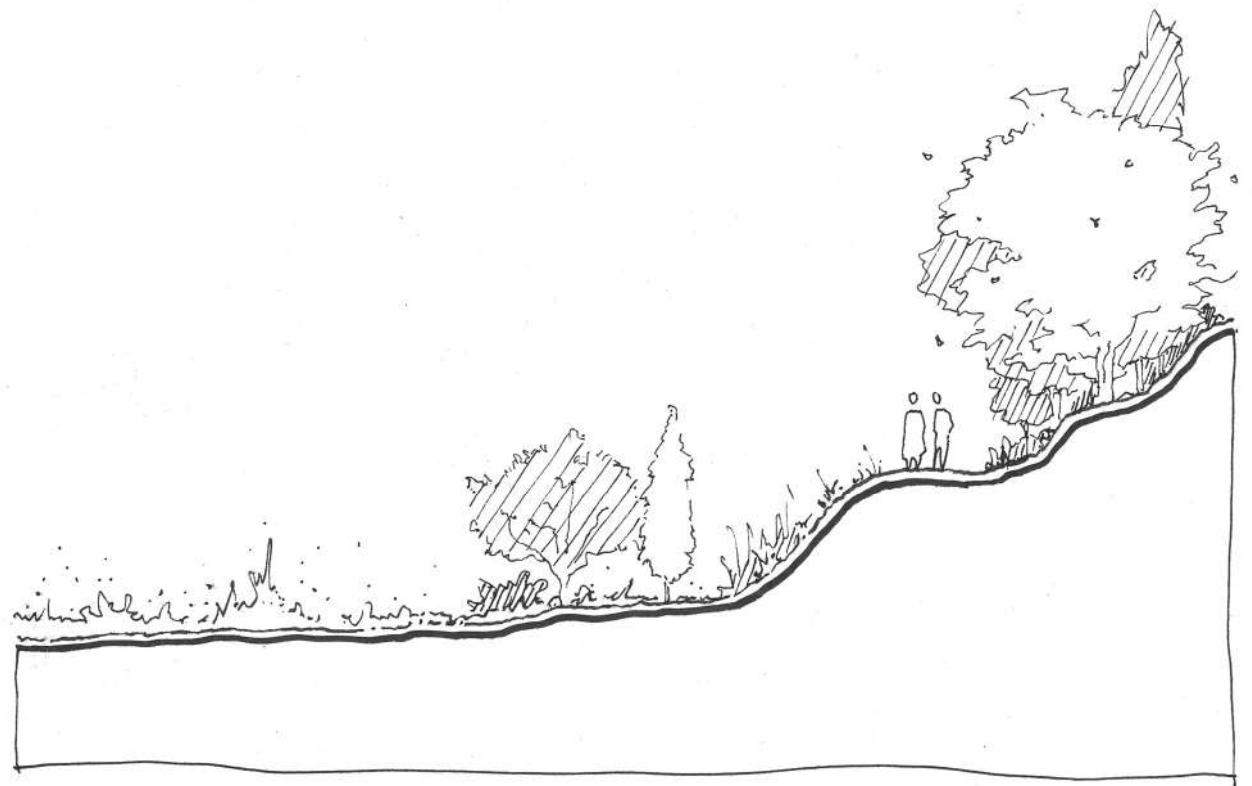


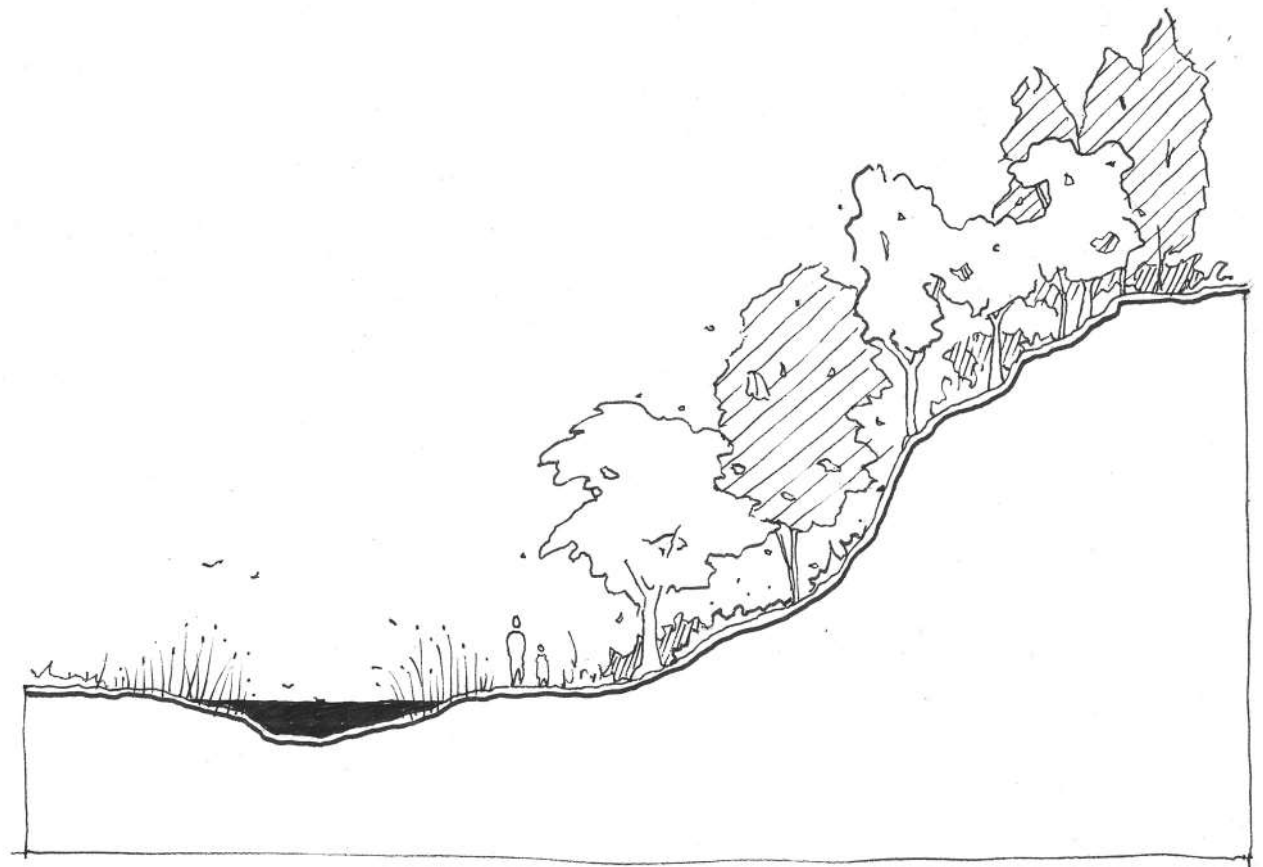


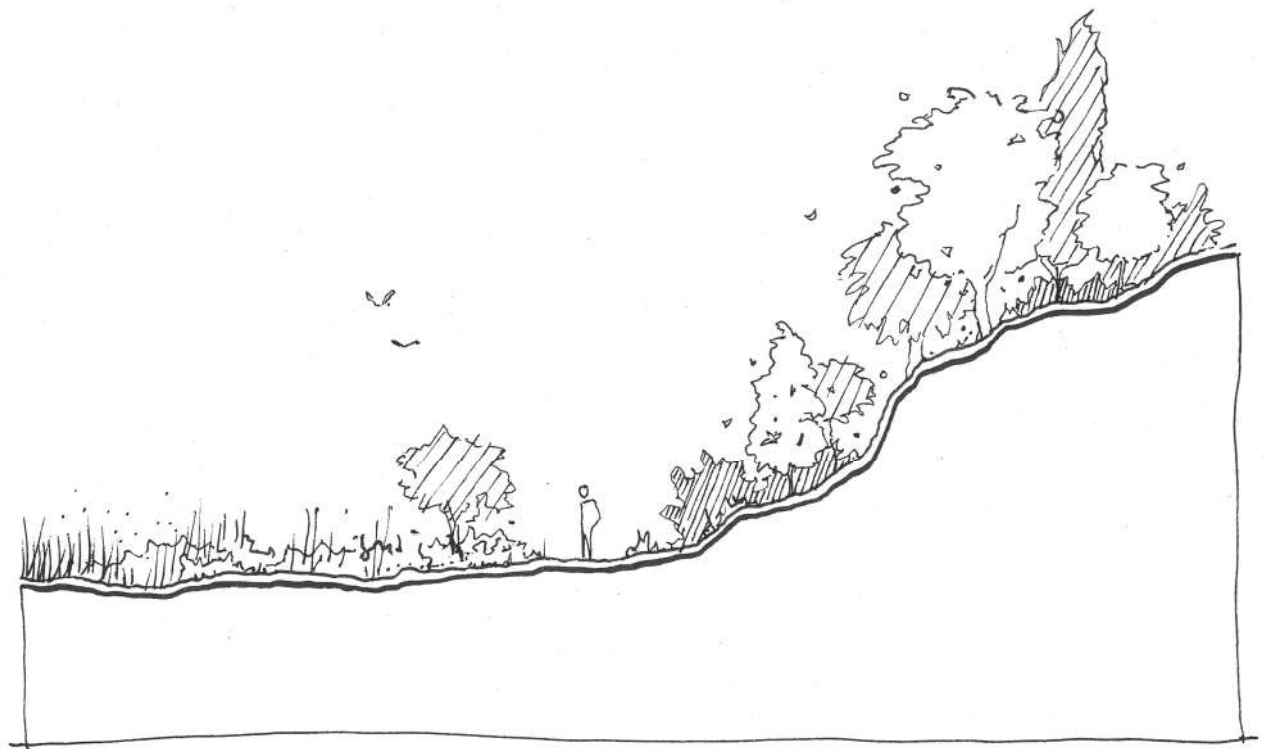


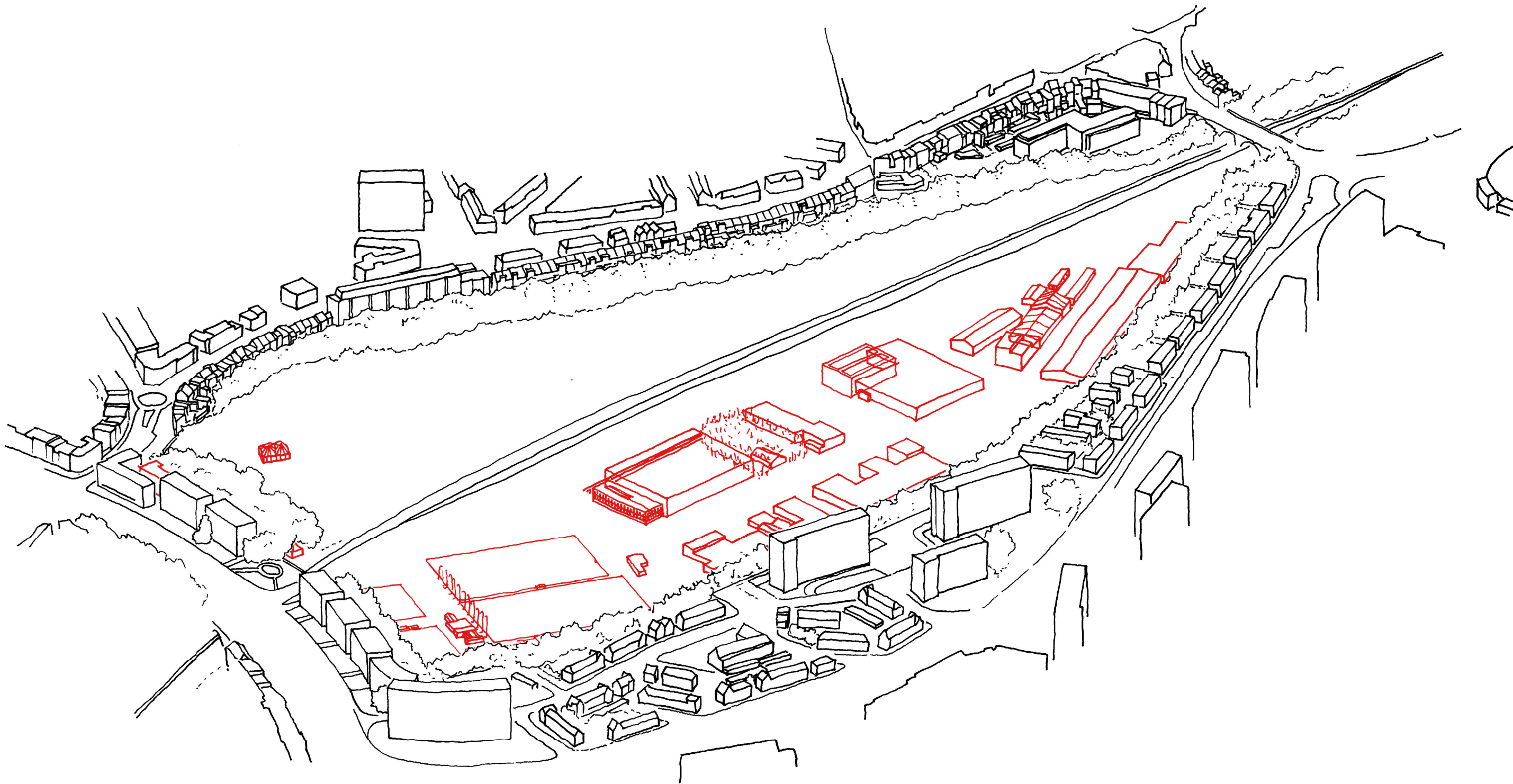


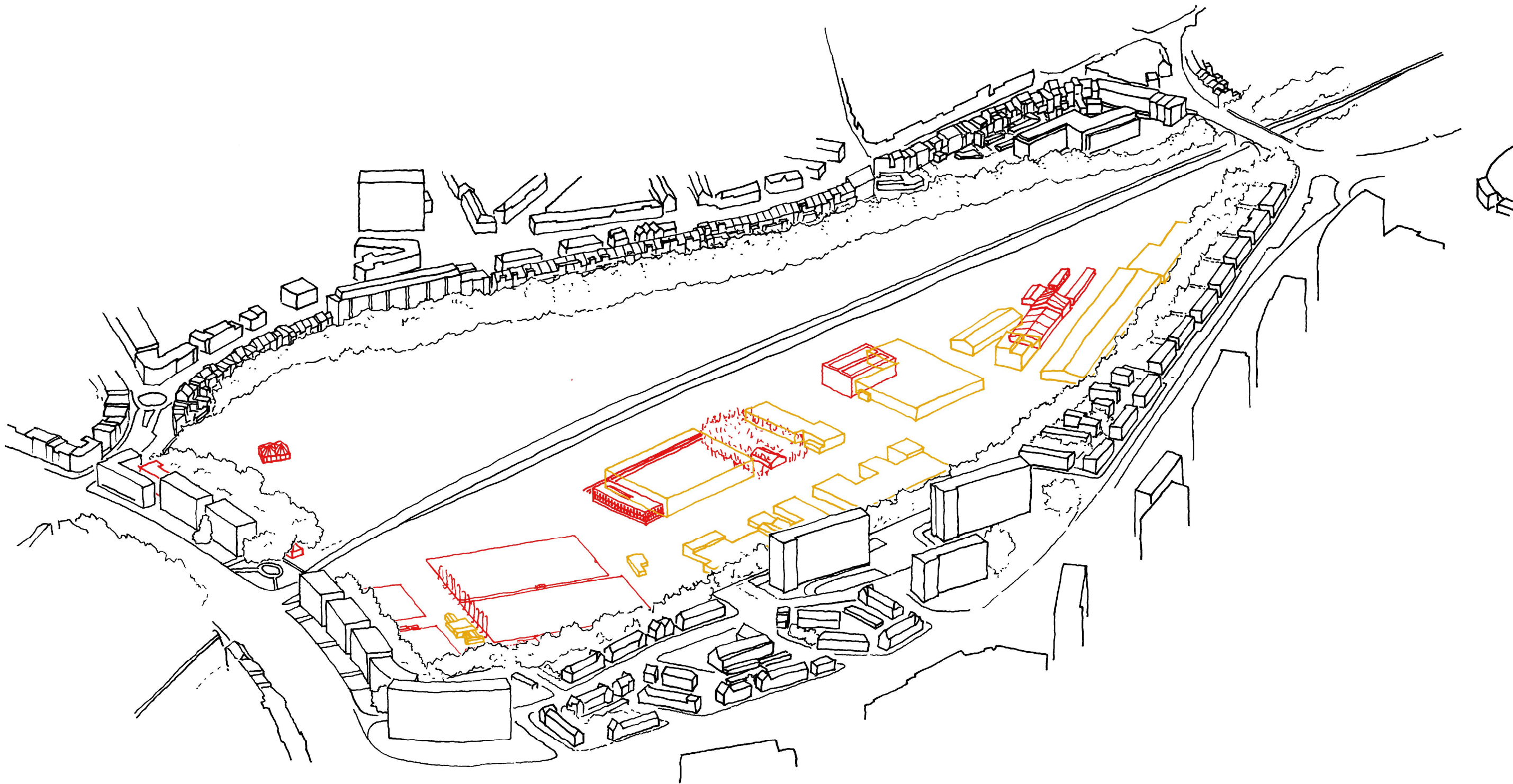


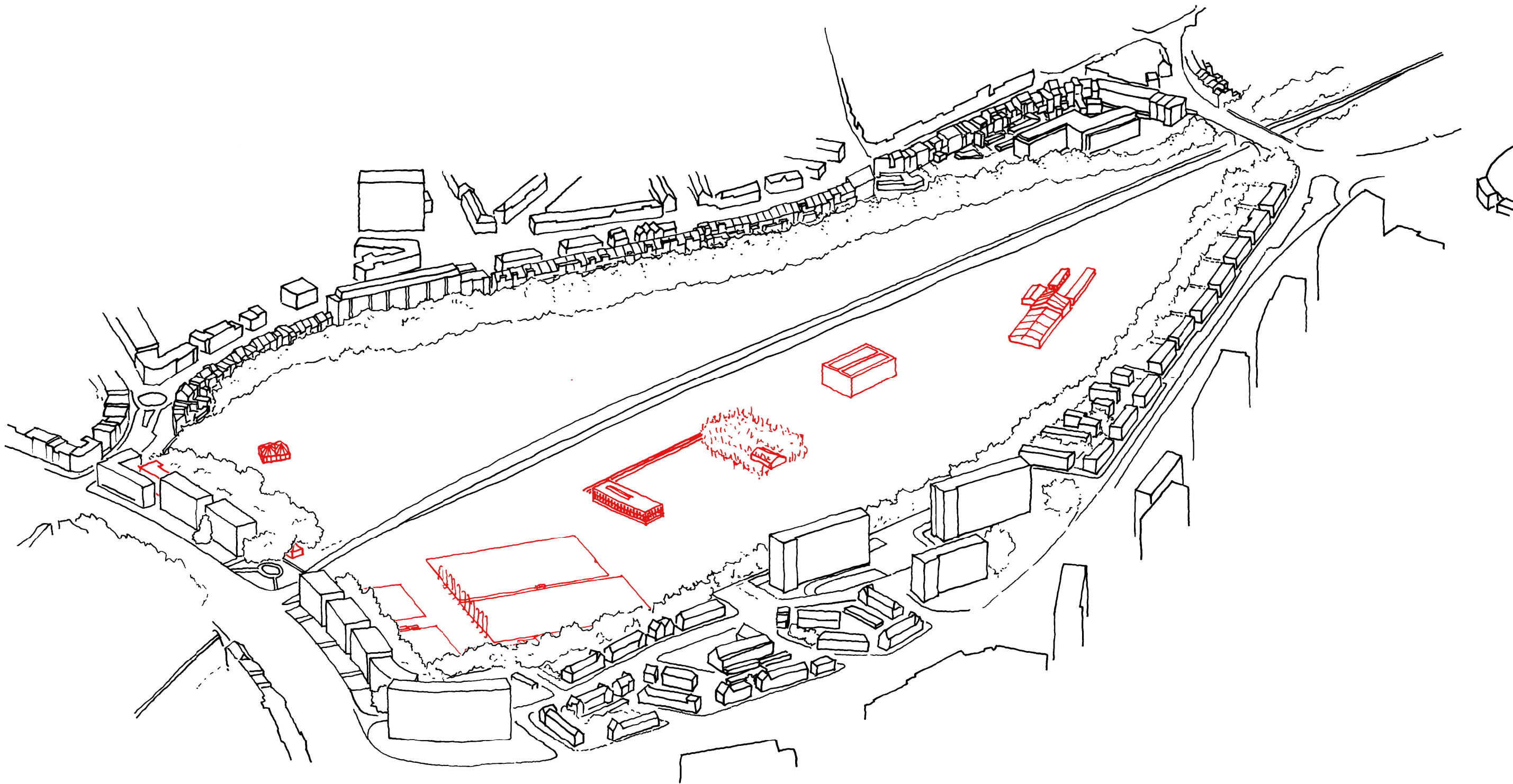


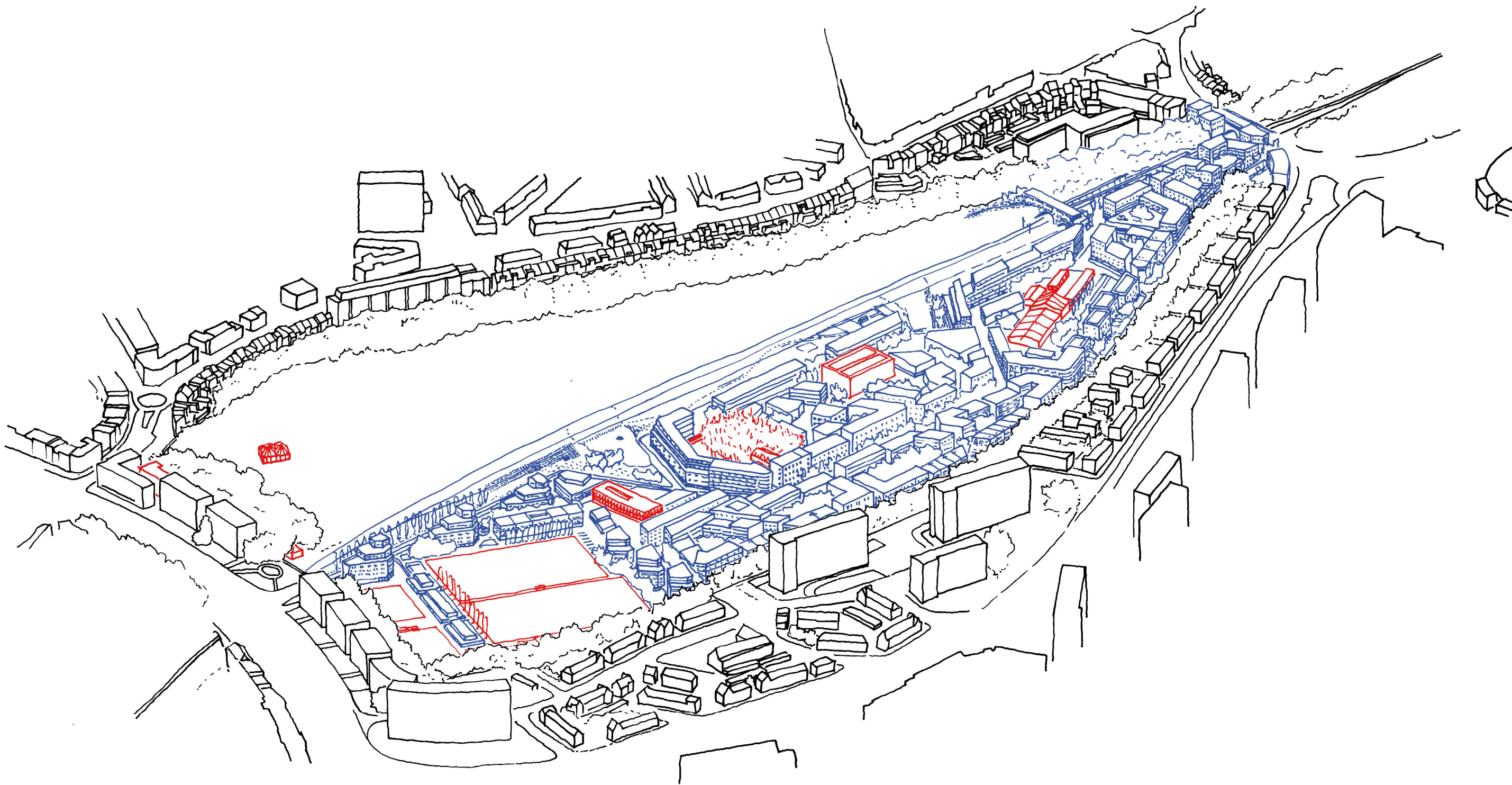


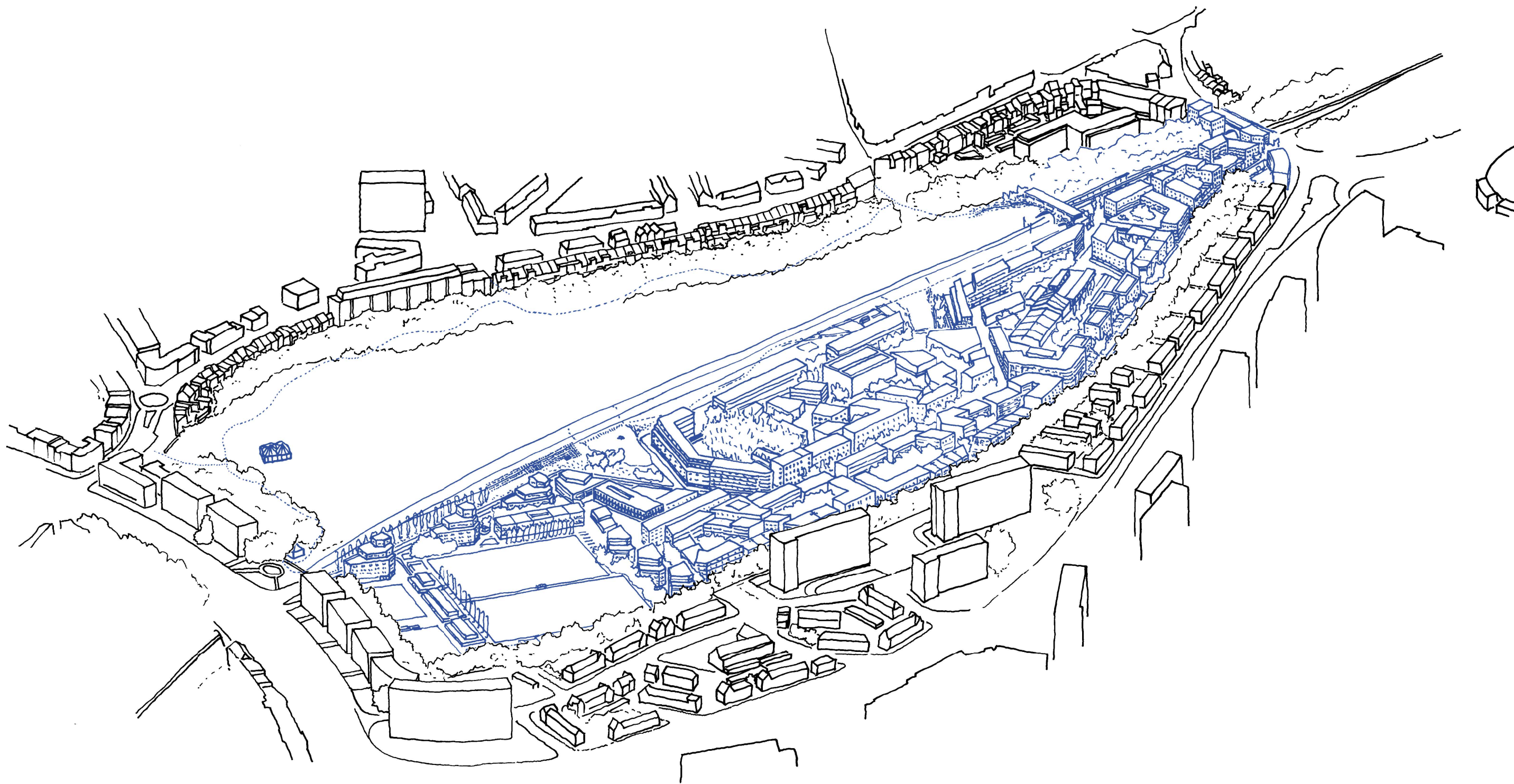


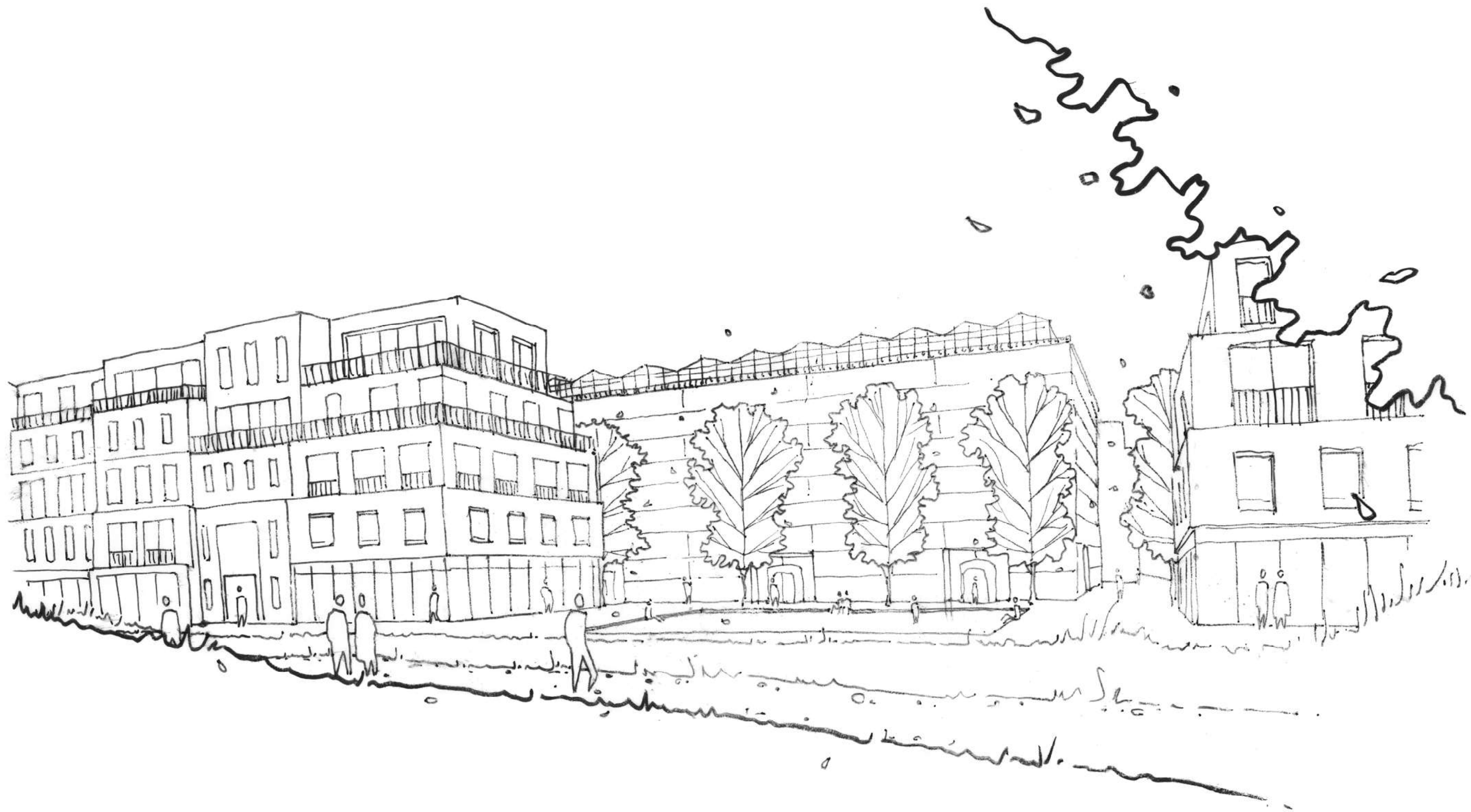


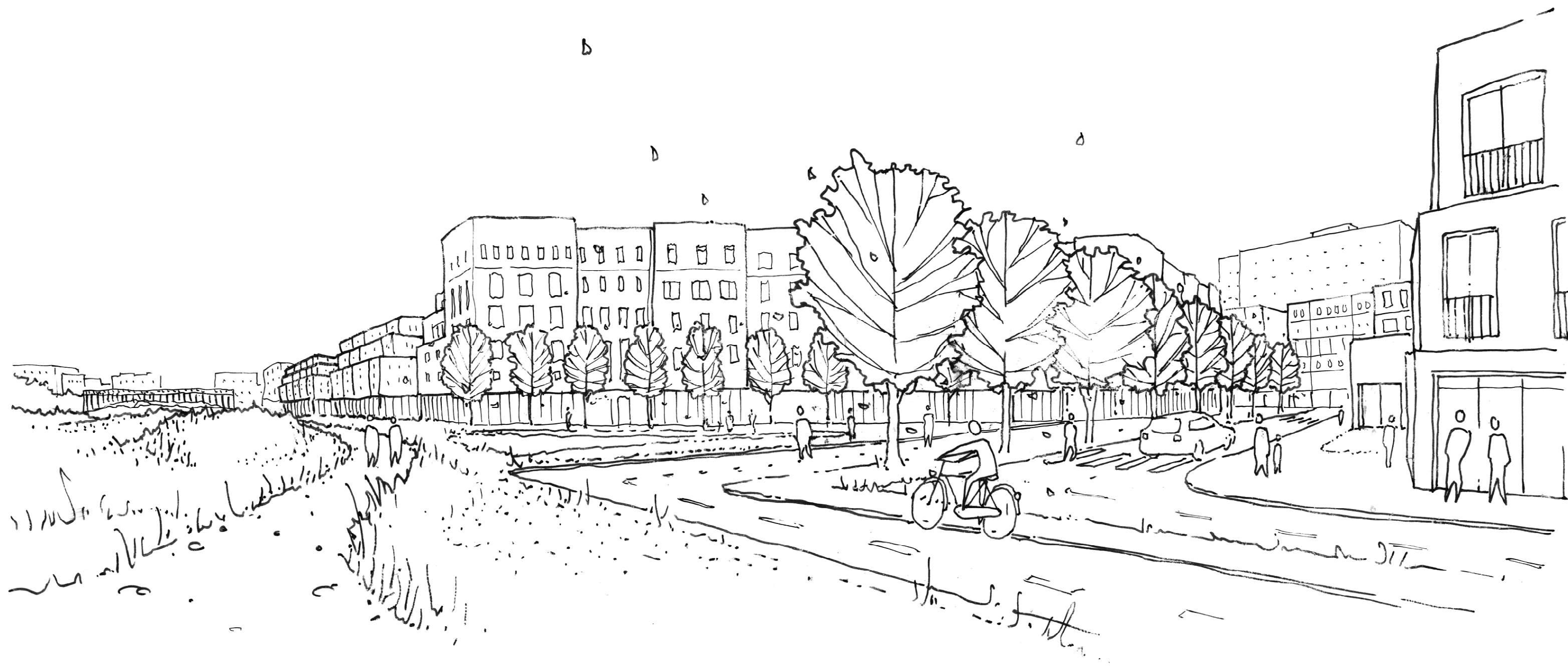


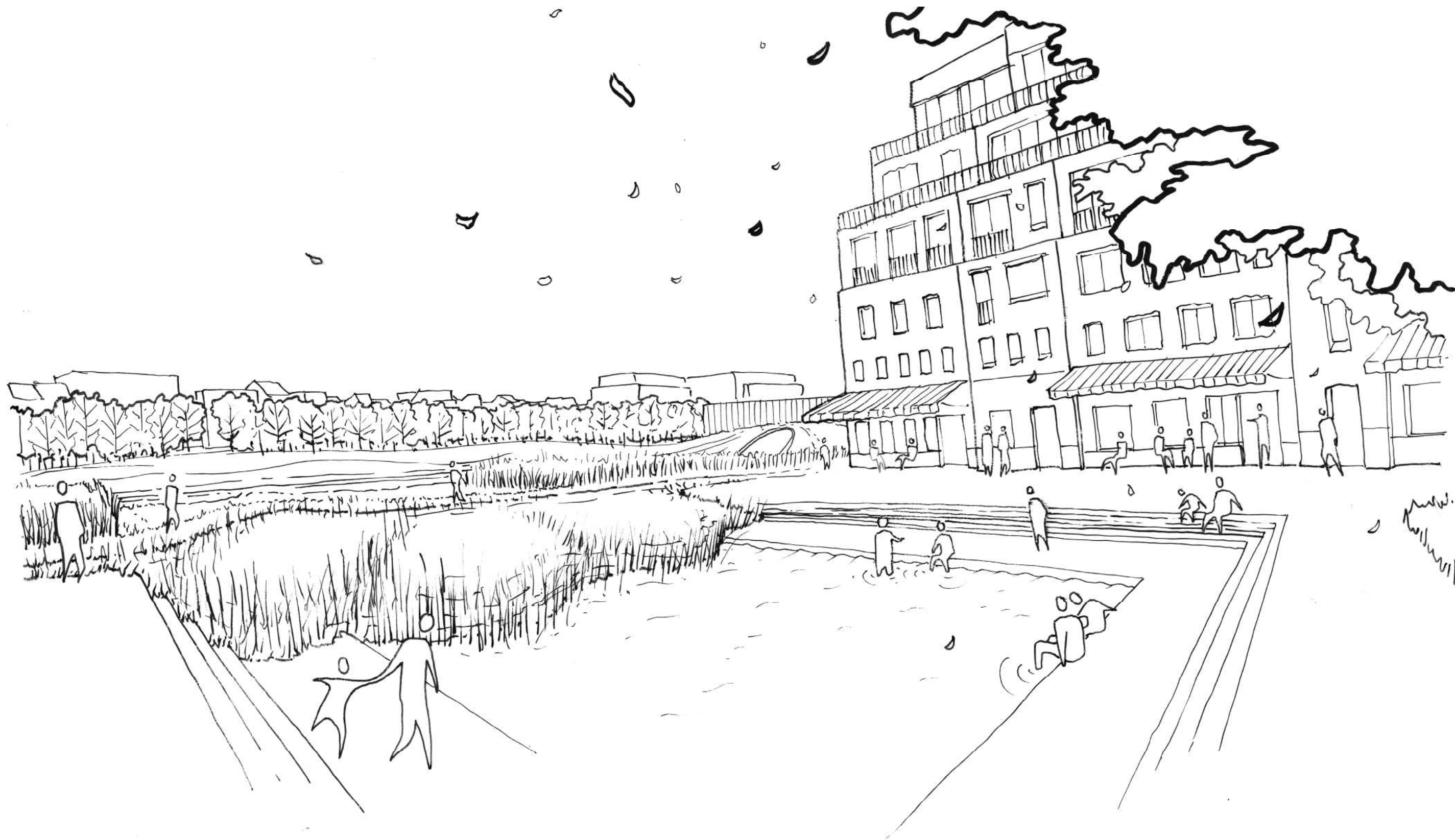










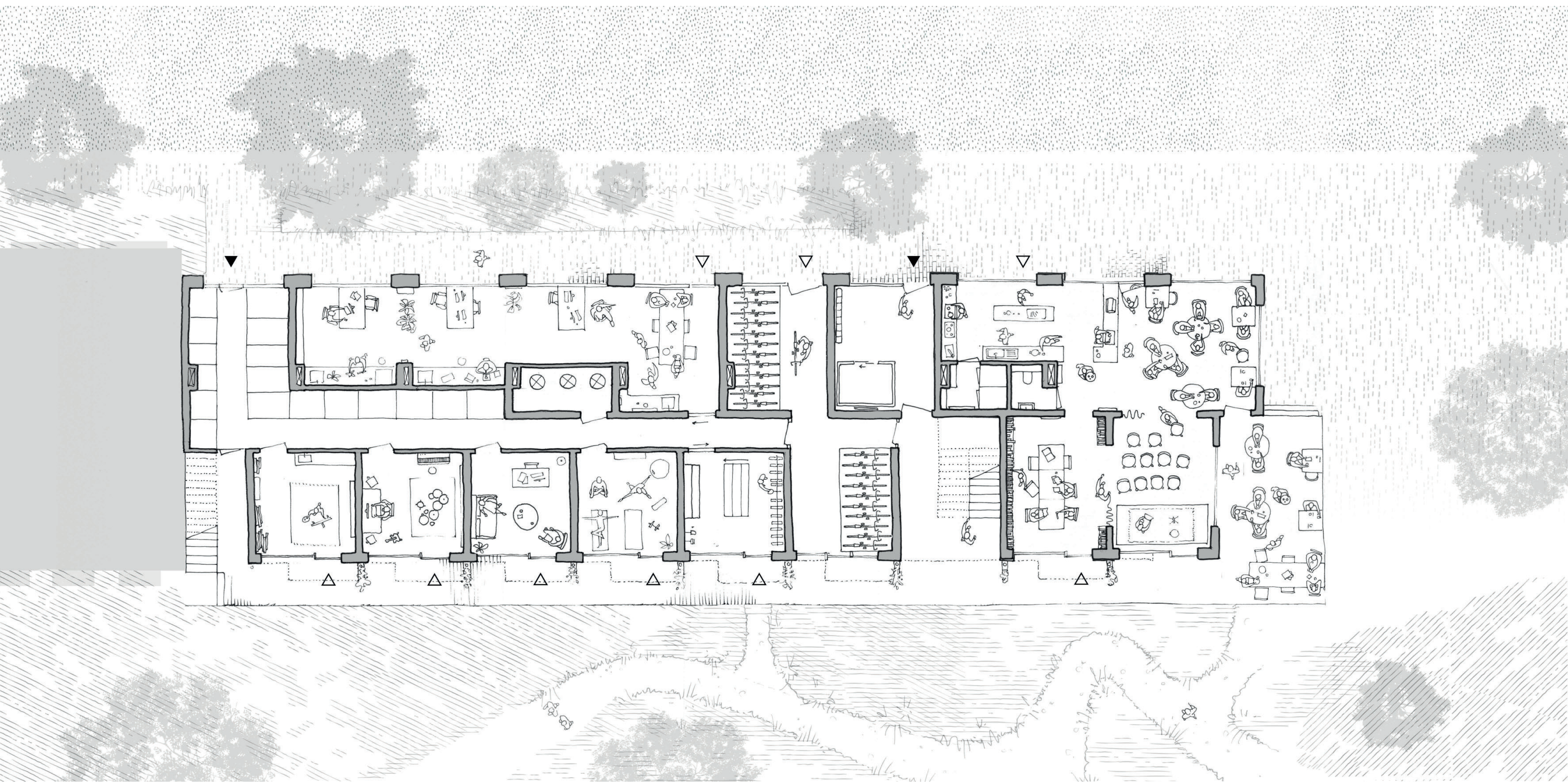


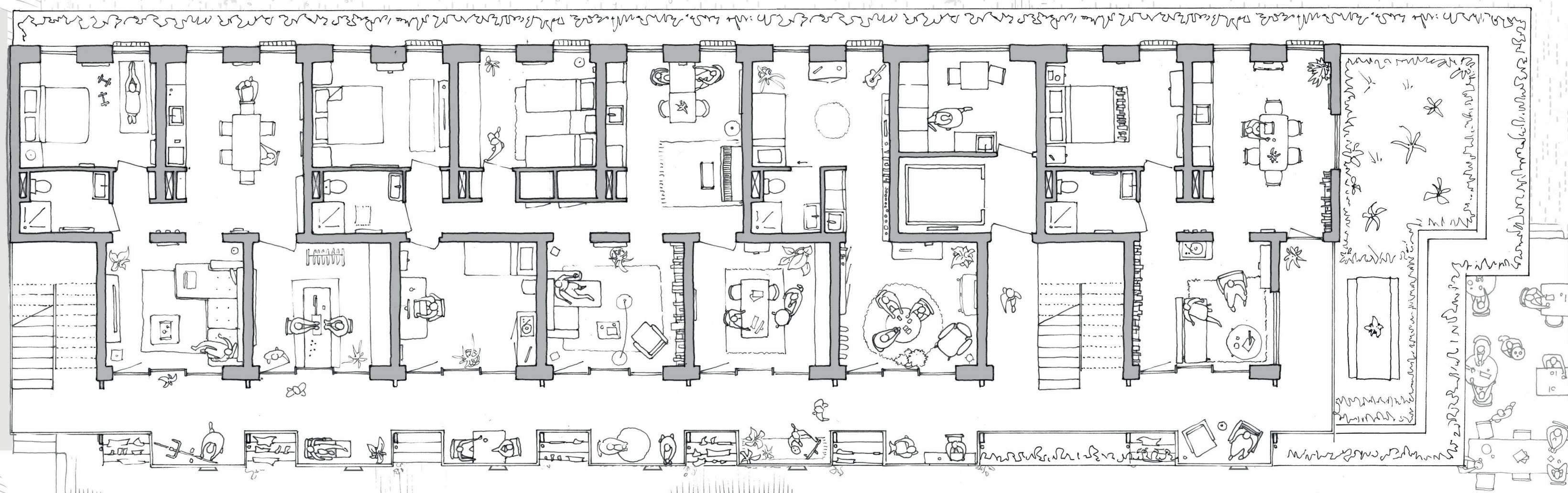


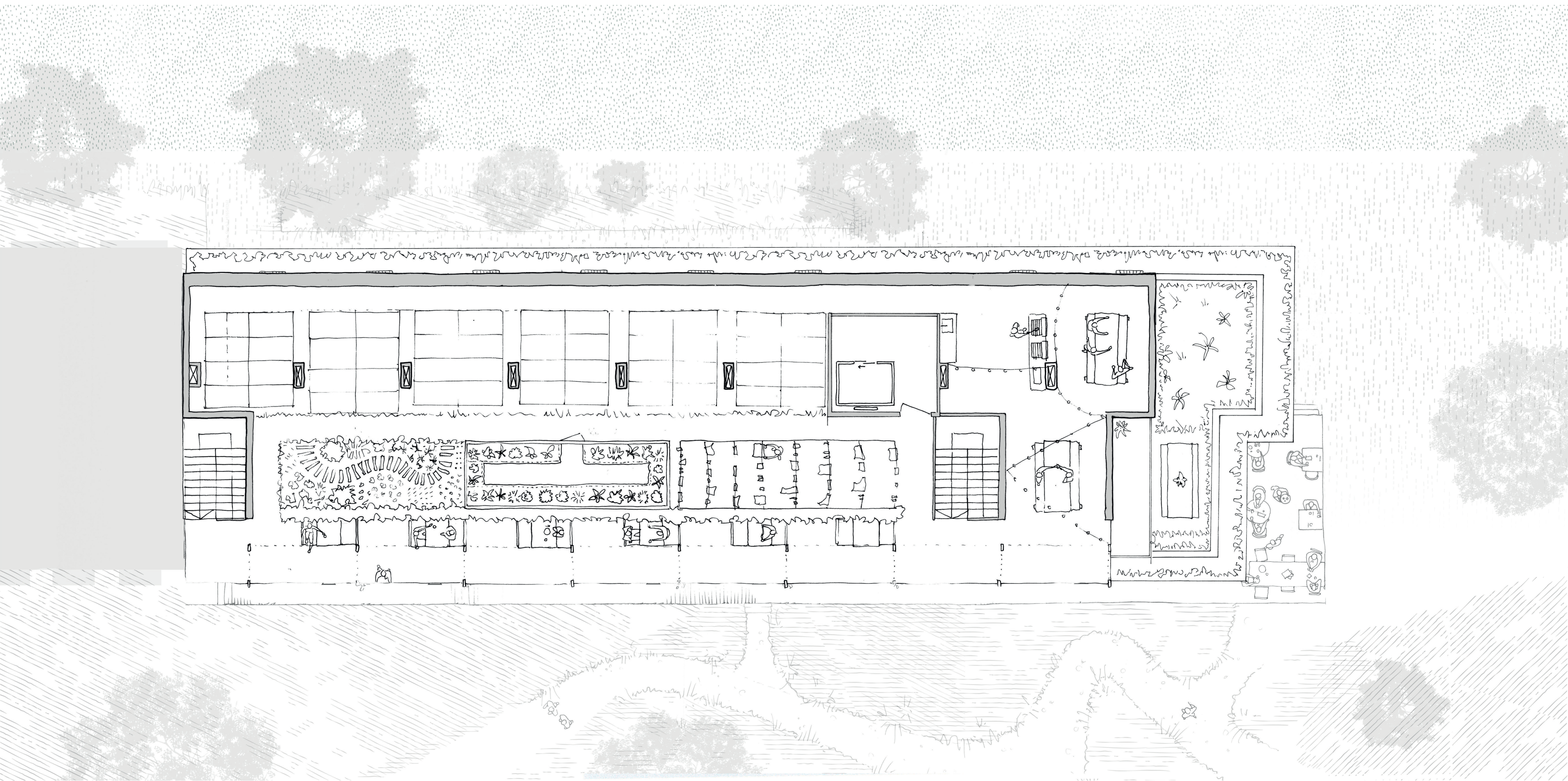


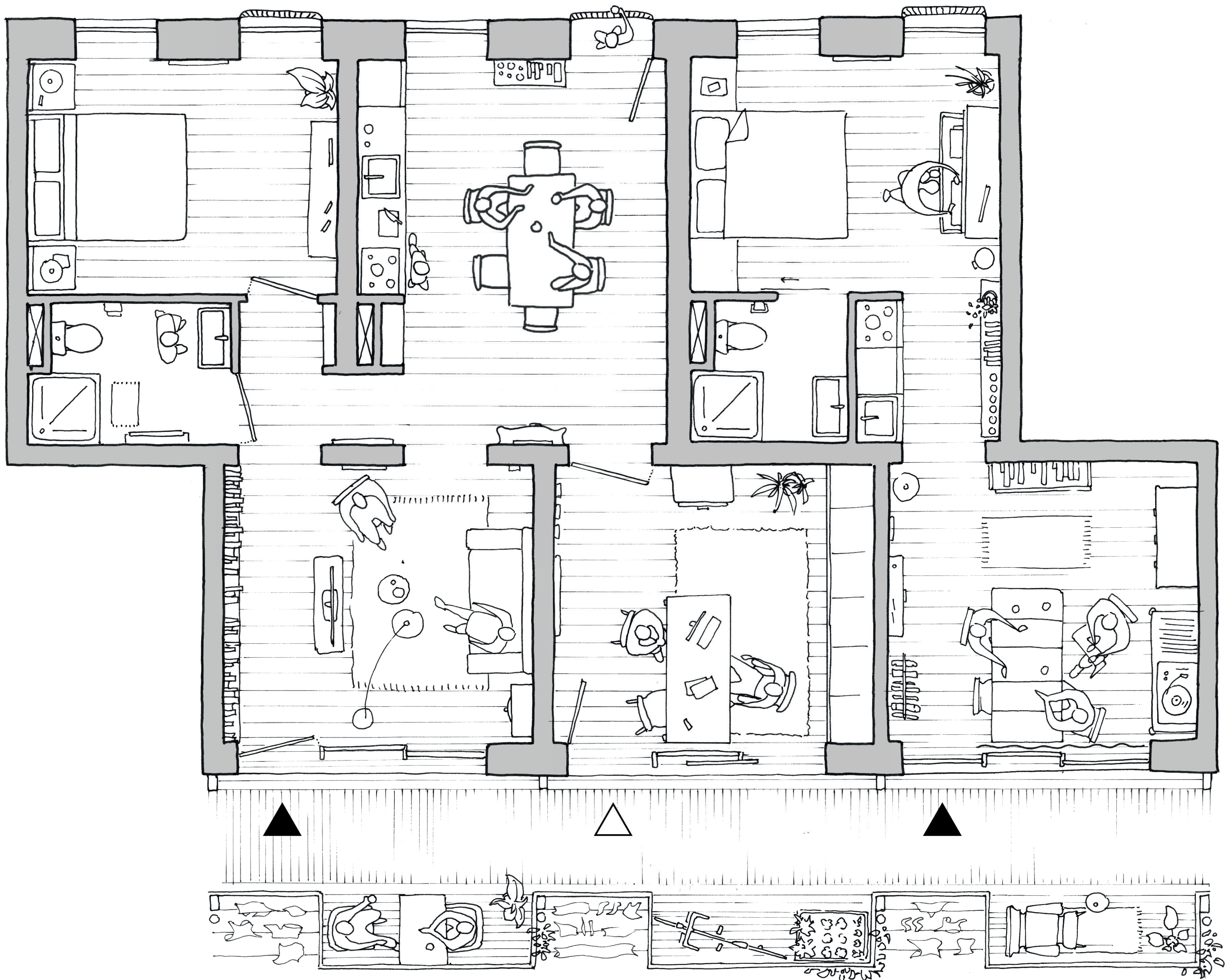


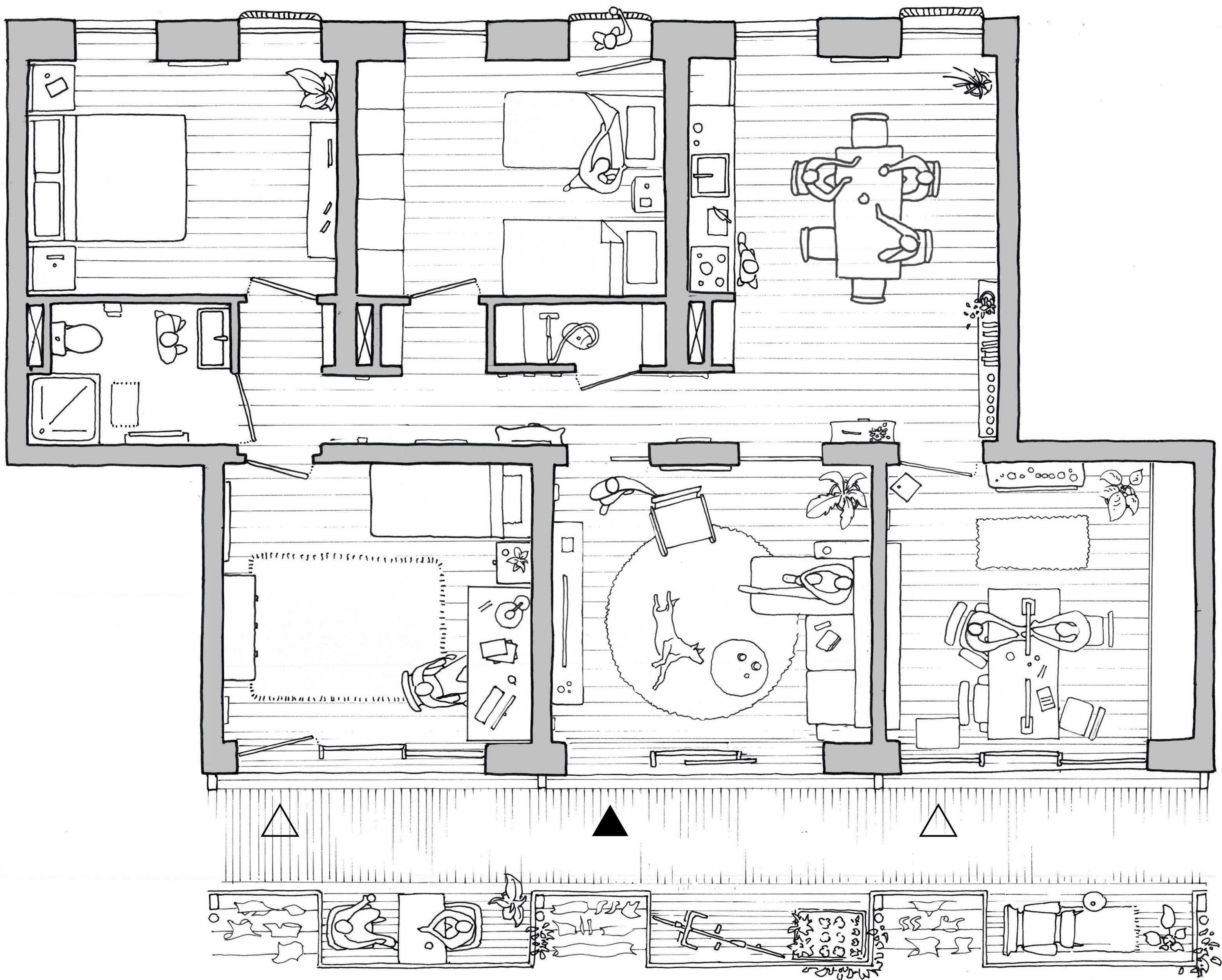


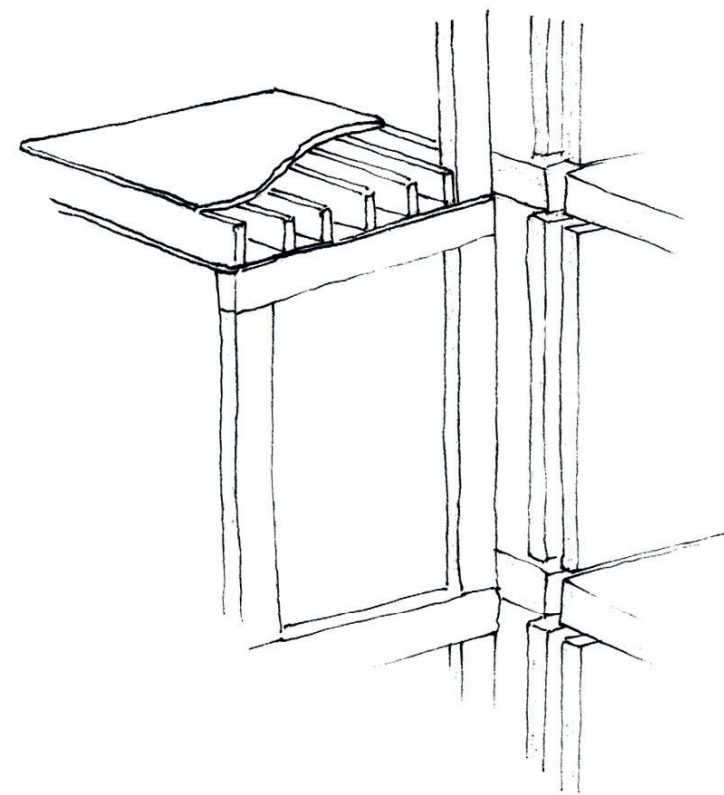






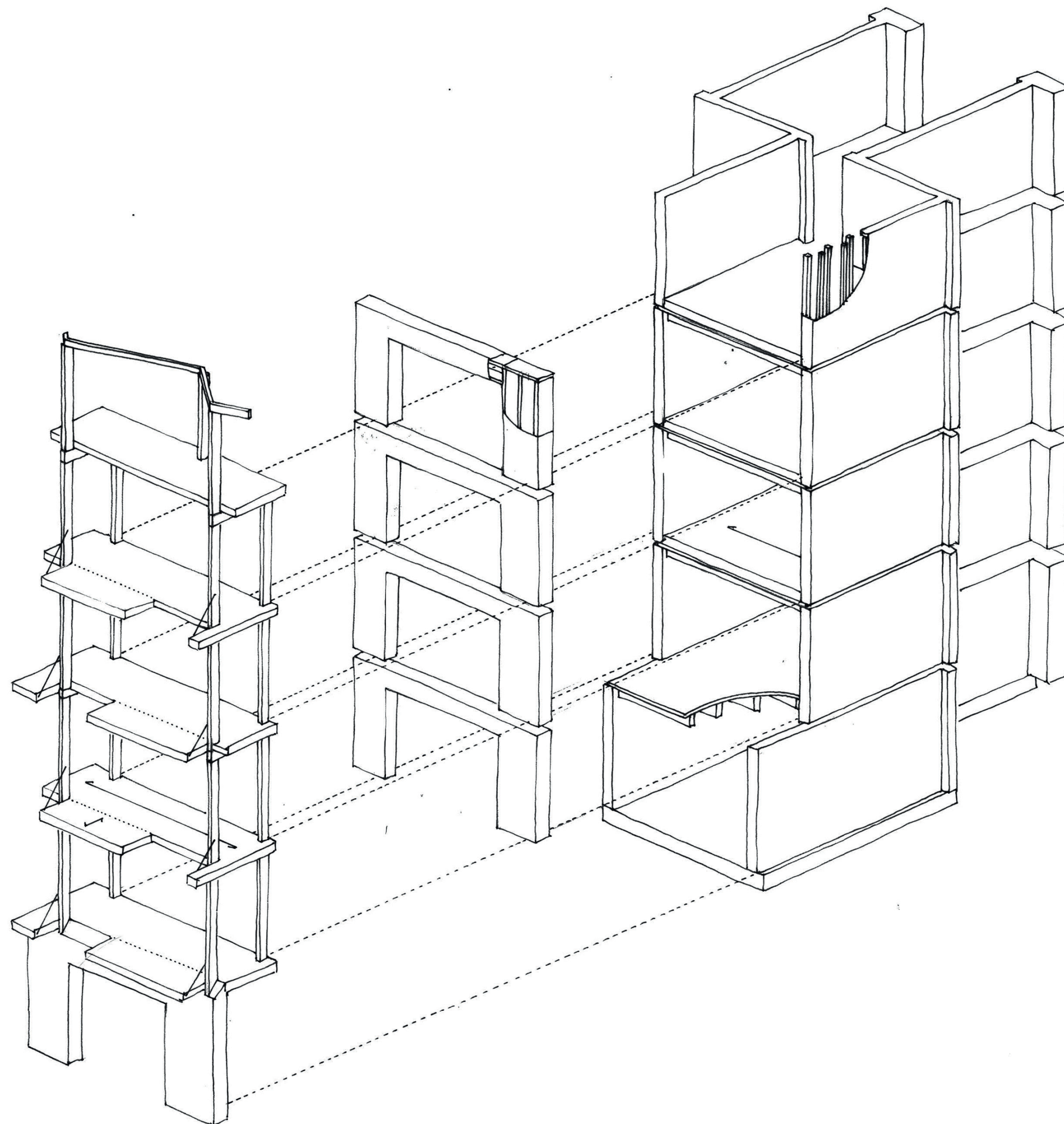






THE DECK SPANS FROM BEAM TO BEAM, WHICH ARE CONNECTED TO THE LOAD BEARING WALLS FOR TRANSFERRING WIND LOADS

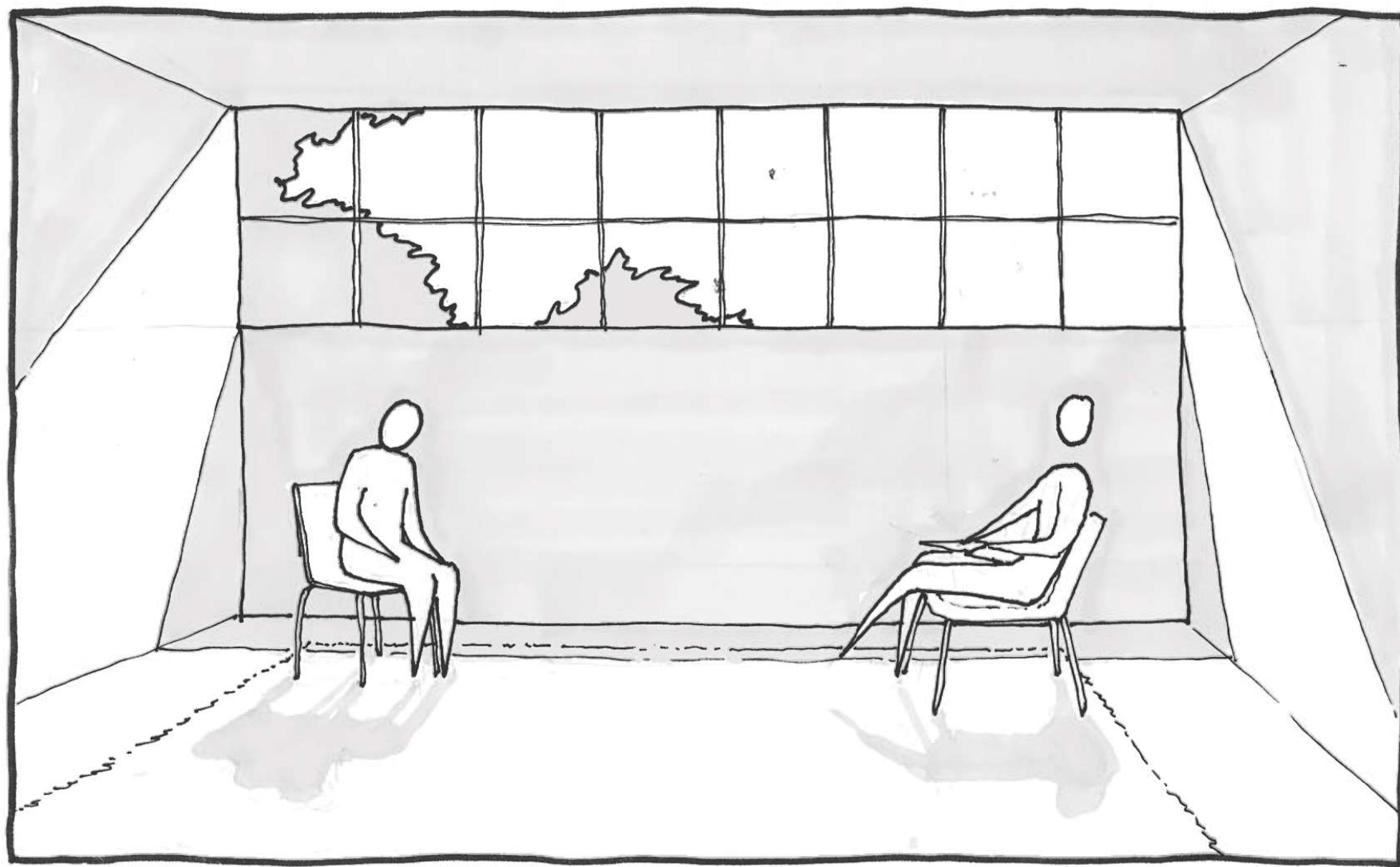
THE BALCONIES HANGING IN FRONT OF THE DECK SPAN PERPENDICULAR TO THE FACADE AND ARE CARRIED BY TENSION RODS CONNECTED TO THE DECK STRUCTURE

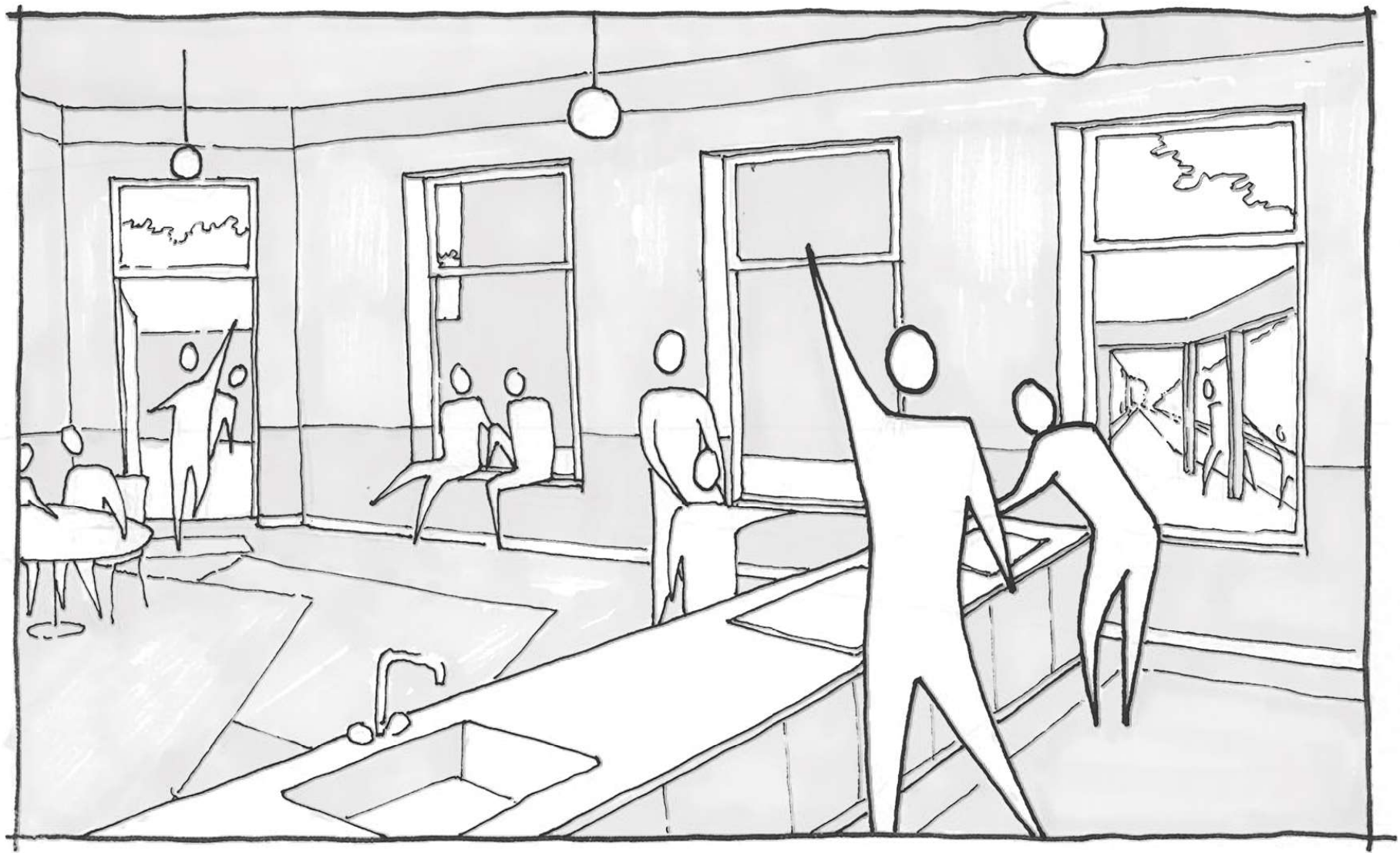


THE LVL VERTICAL ELEMENTS IN THE WOODFRAME CONSTRUCTION ARE SPLIT AND SHIFTED, TO PREVENT THE TRANSFERRING OF IMPACT SOUND

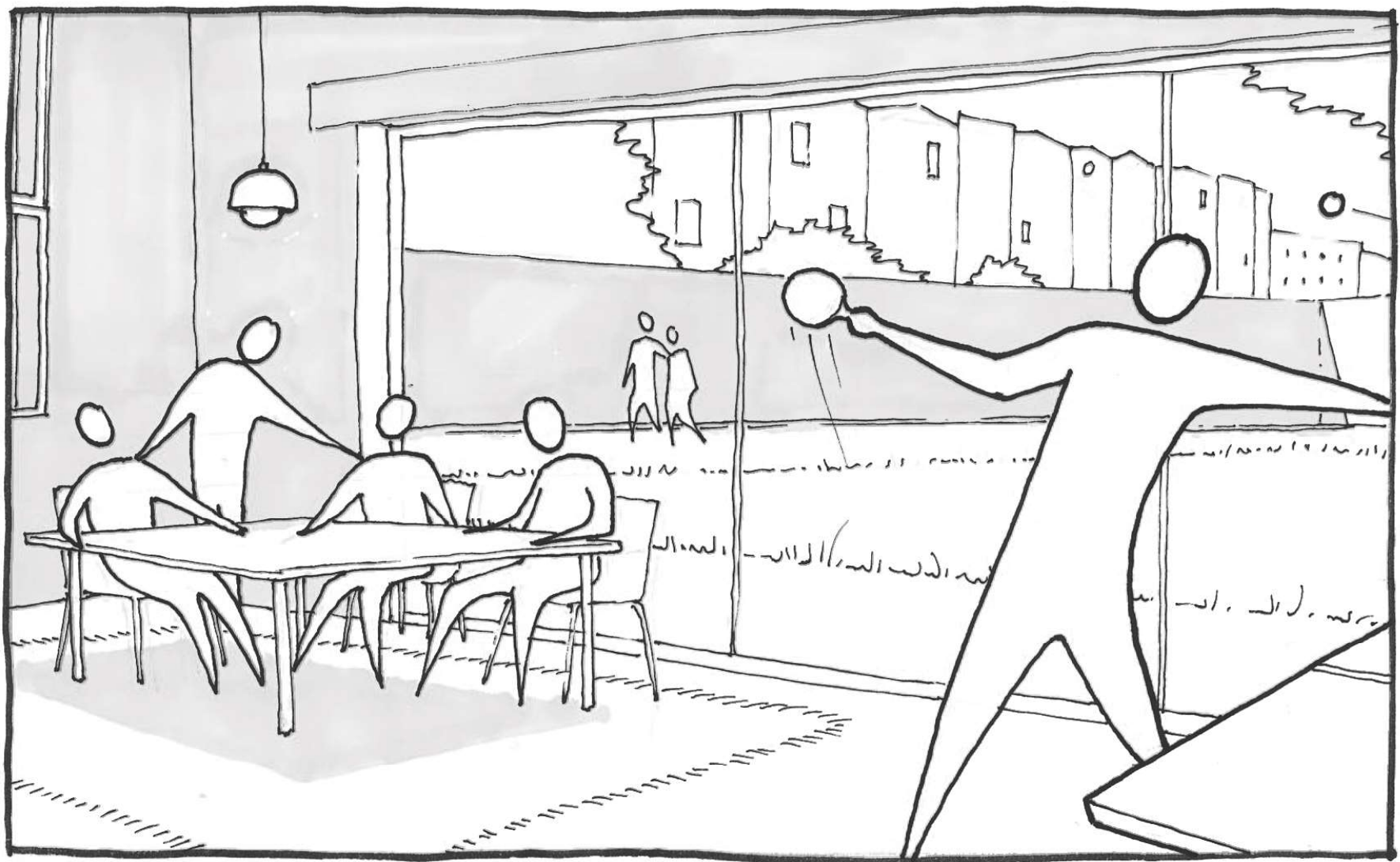
THE WOODFRAME FACADES ARE CARRIED BY THE LAMINATED VENEER LUMBER RIB SLAB FLOORS. THESE FLOORS ARE CARRIED BY THE CONSTRUCTIVE WOODFRAME WALLS.

THE PREFAB LVL KERTO RIPA RIB SLABS ARE STIFF AND CAN THEREFORE TRANSFER HORIZONTAL WIND LOADS DIRECTLY TO THE LOAD BEARING STABILITY WALLS IN PERPENDICULAR DIRECTION

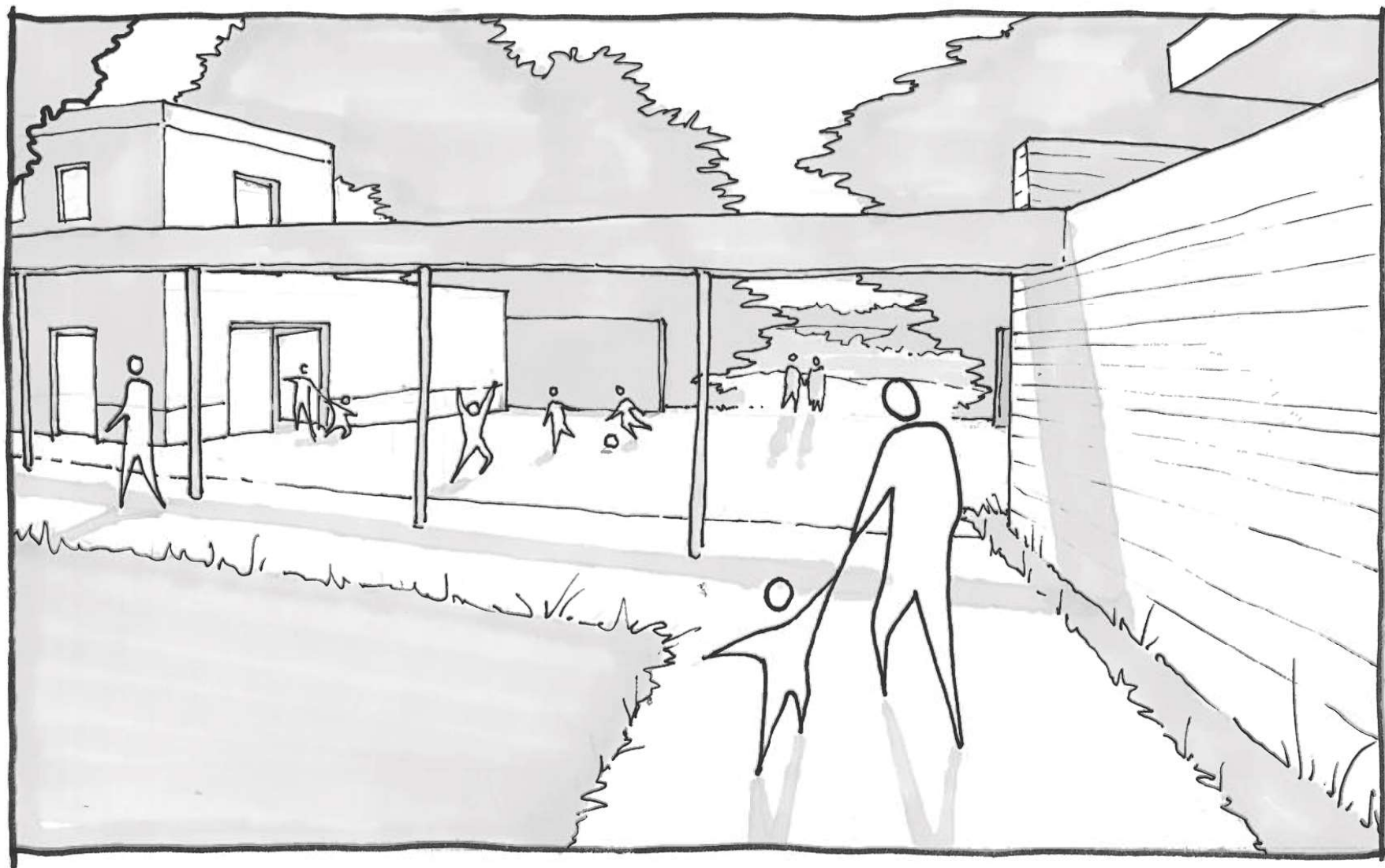


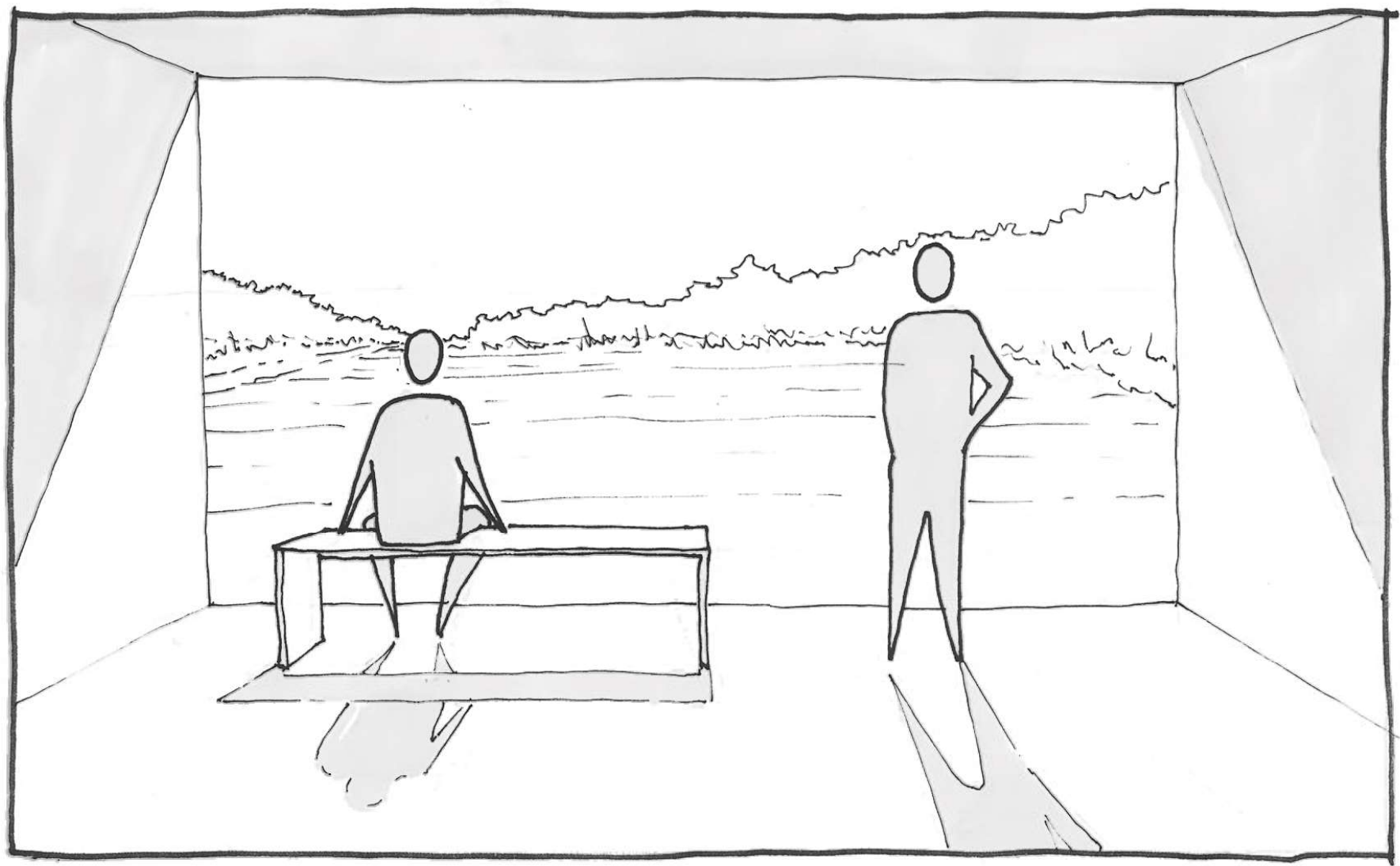


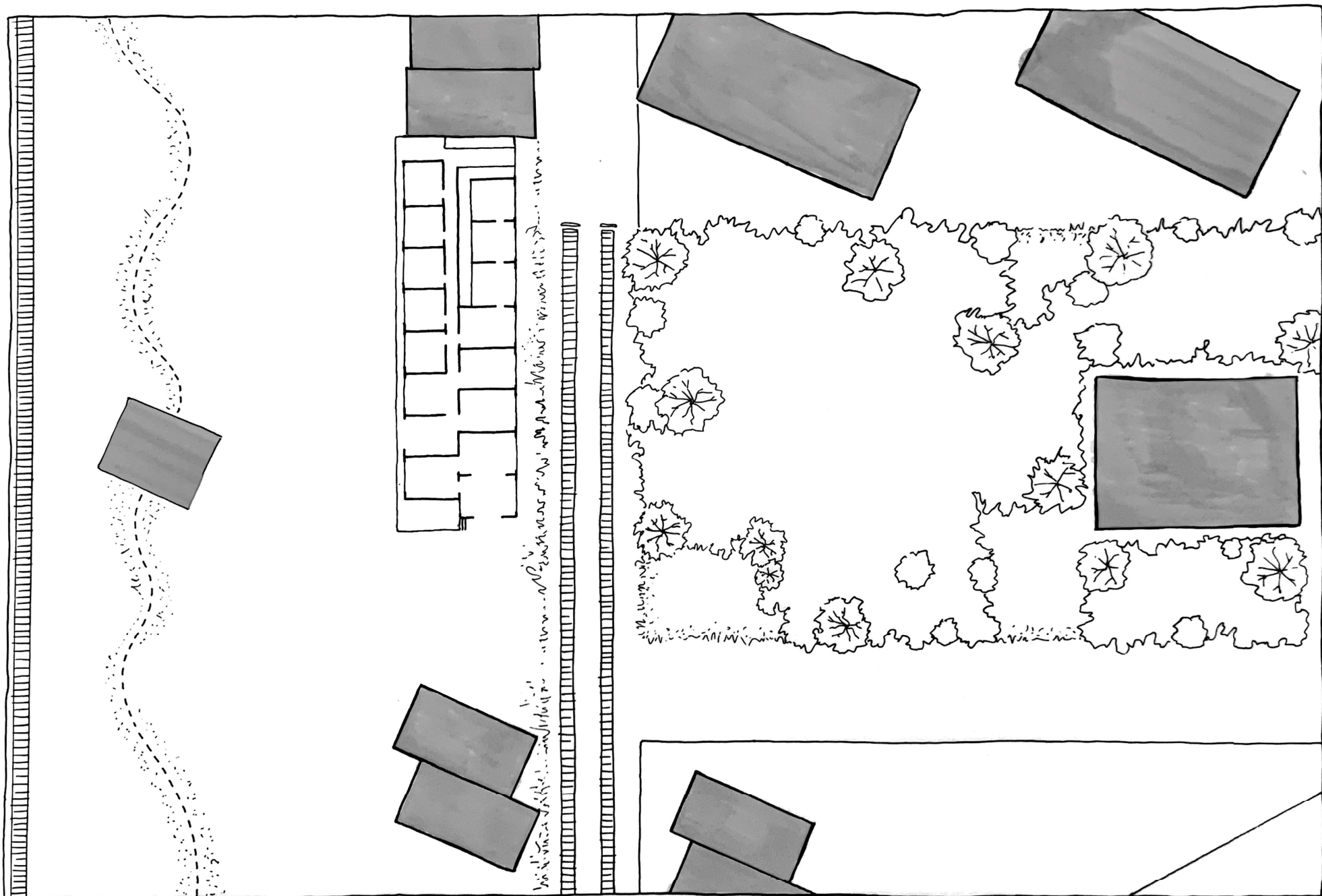


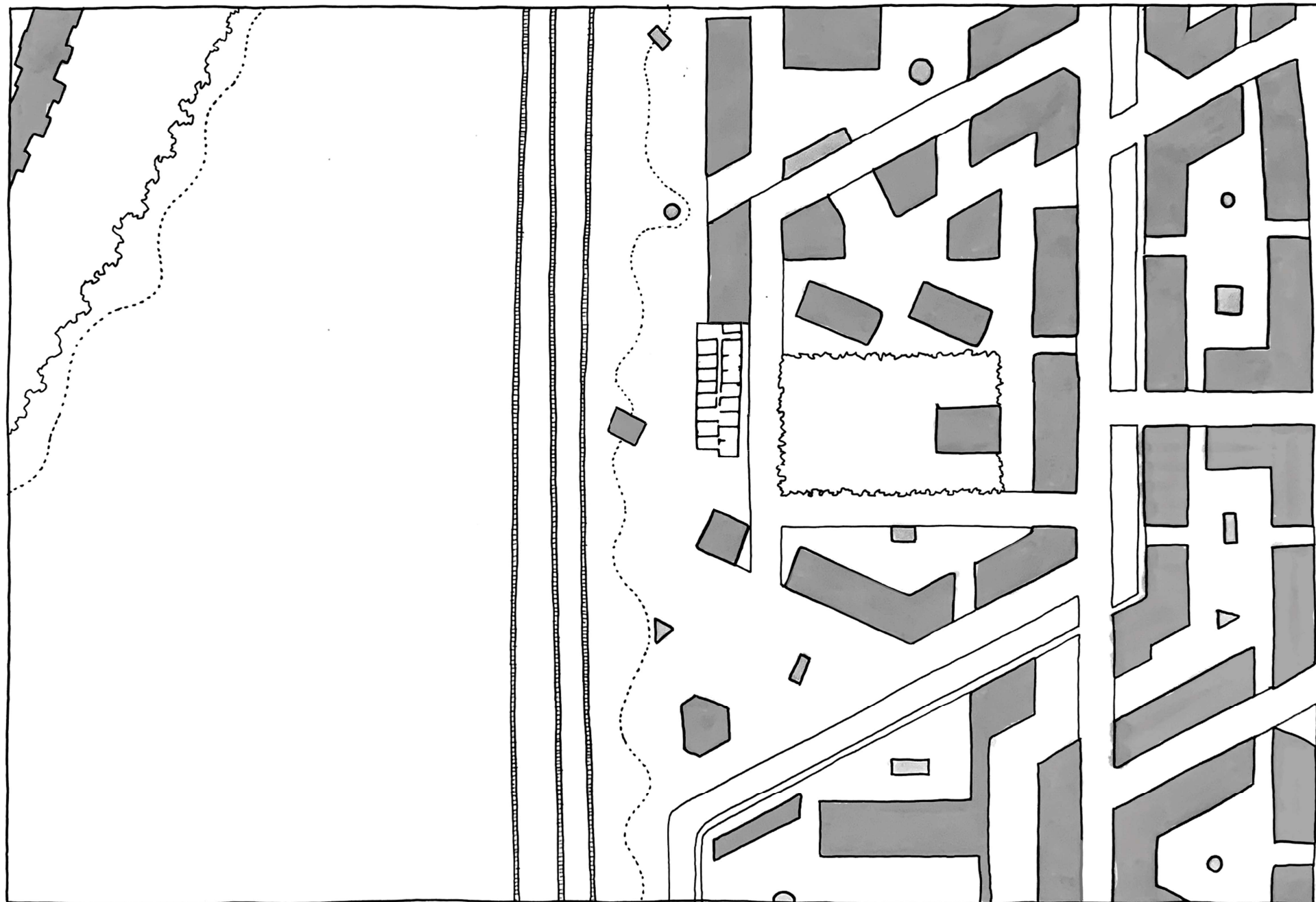






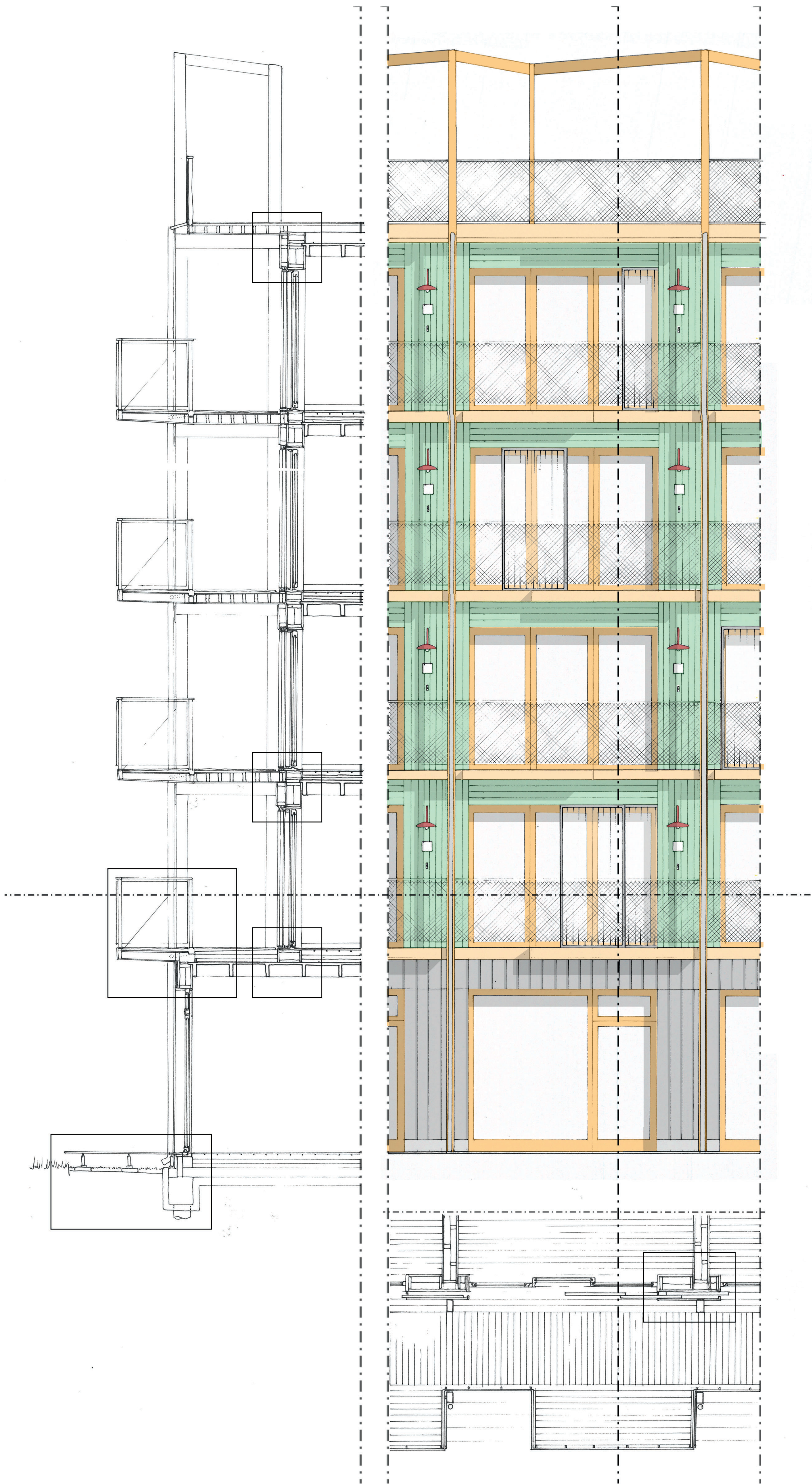


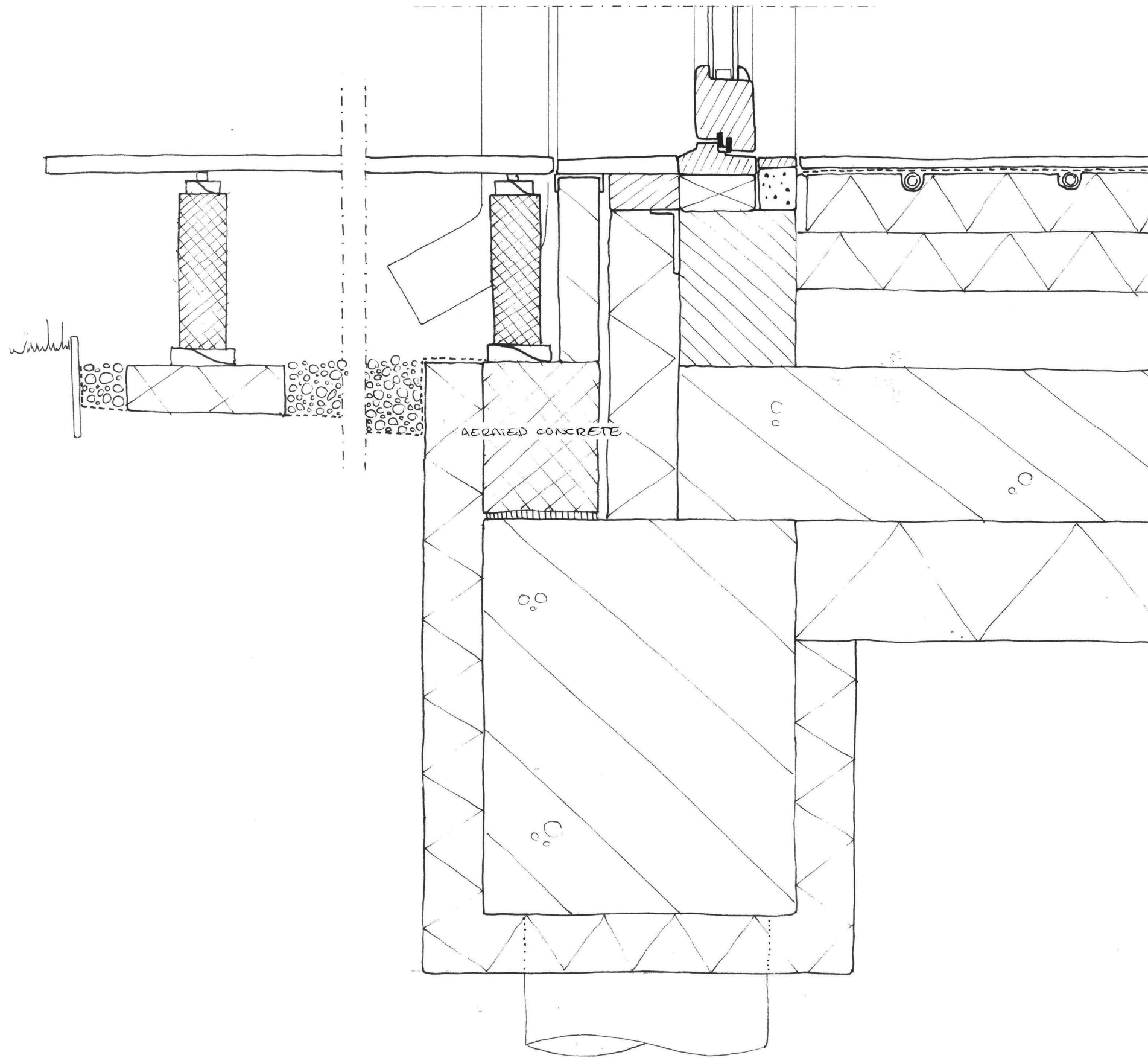


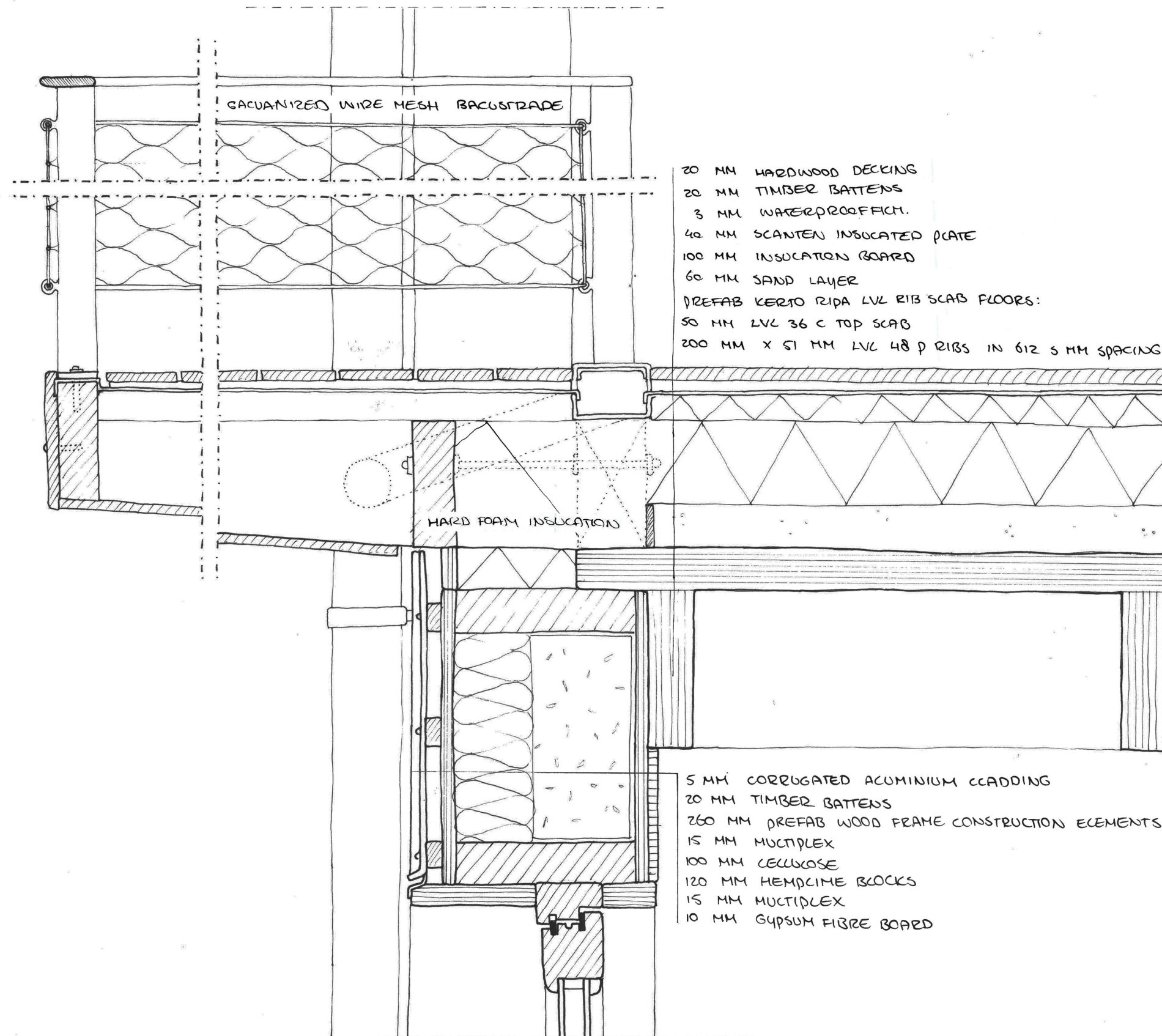


1 : 1000









20 MM HARDWOOD DECKING
 20 MM TIMBER BATTENS
 3 MM WATERPROOFING
 40 MM SCANTEN INSULATED PLATE
 100 MM INSULATION BOARD
 60 MM SAND LAYER

PREFAB KERTO RIPA LVL RIB SCAB FLOORS:

50 MM LVL 36 C TOP SCAB

200 MM X 51 MM LVL 48 P RIBS IN 612 5 MM SPACING

10 MM FLOOR FINISHING
 HEAT FOIL

10 MM FARMACEC GYPSUM BOARD

14 X 2 MM VASCO TUBES

25 MM FARMACEC INSULATED BOARD

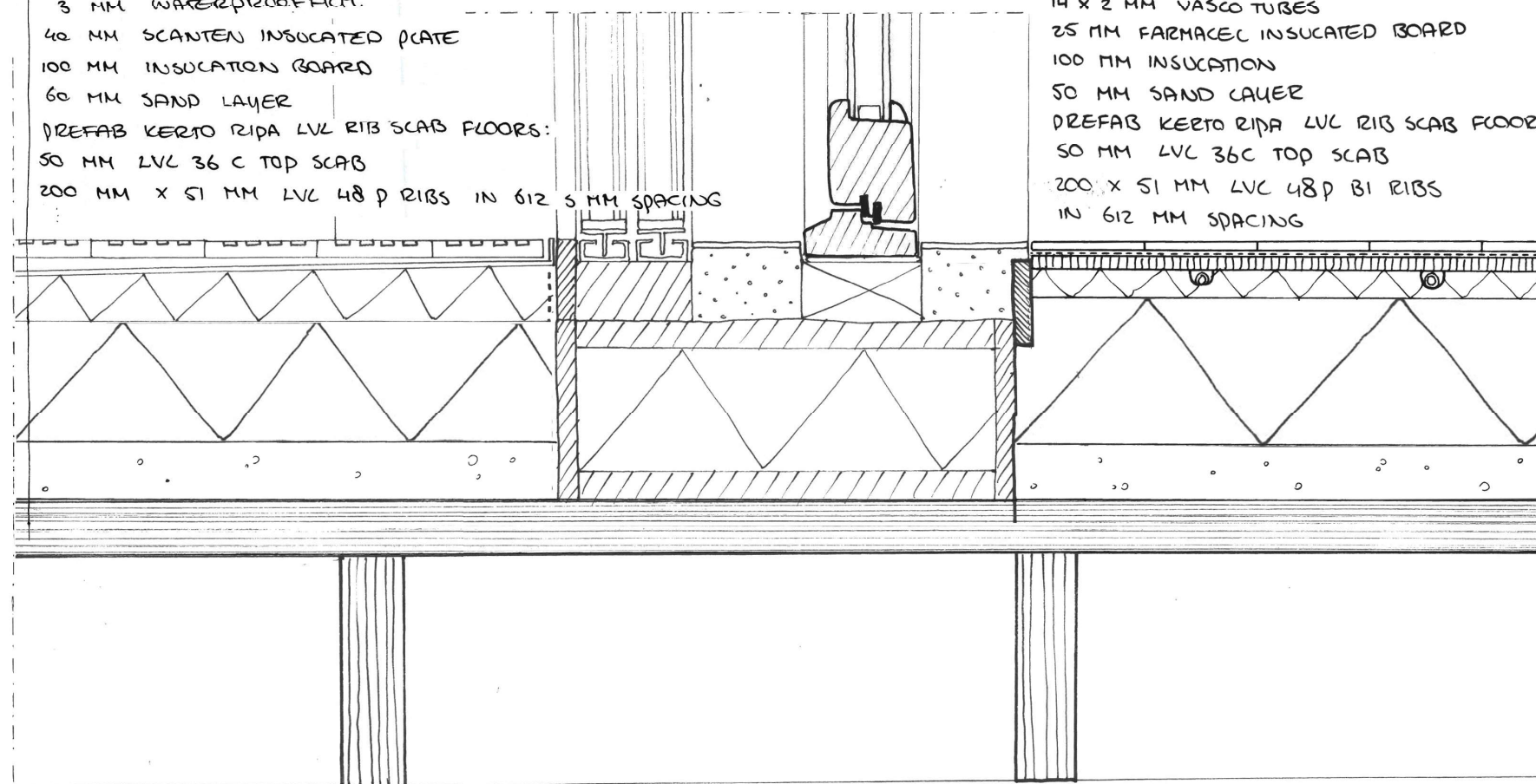
100 MM INSULATION

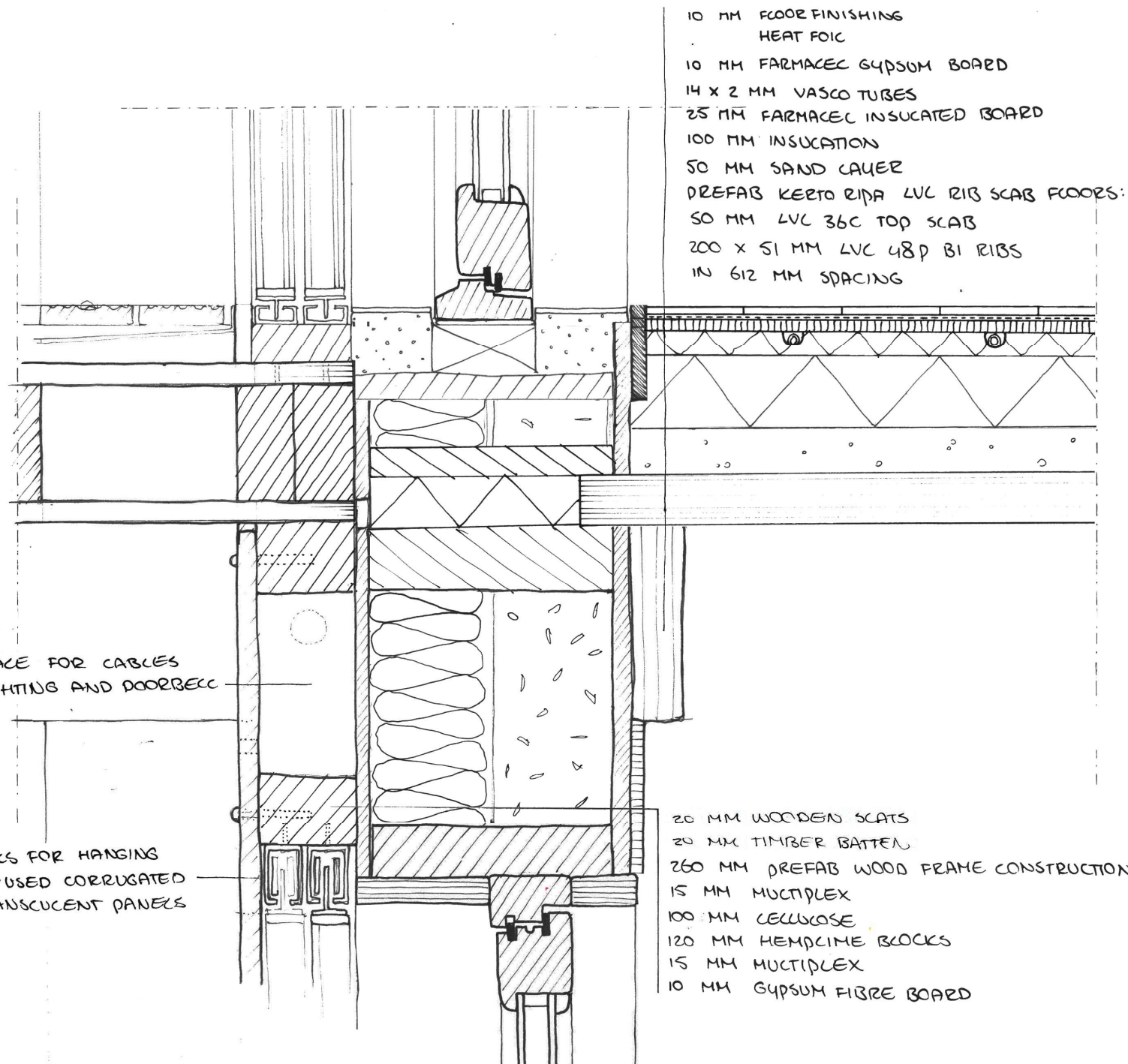
50 MM SAND LAYER

PREFAB KERTO RIPA LVL RIB SCAB FLOORS:

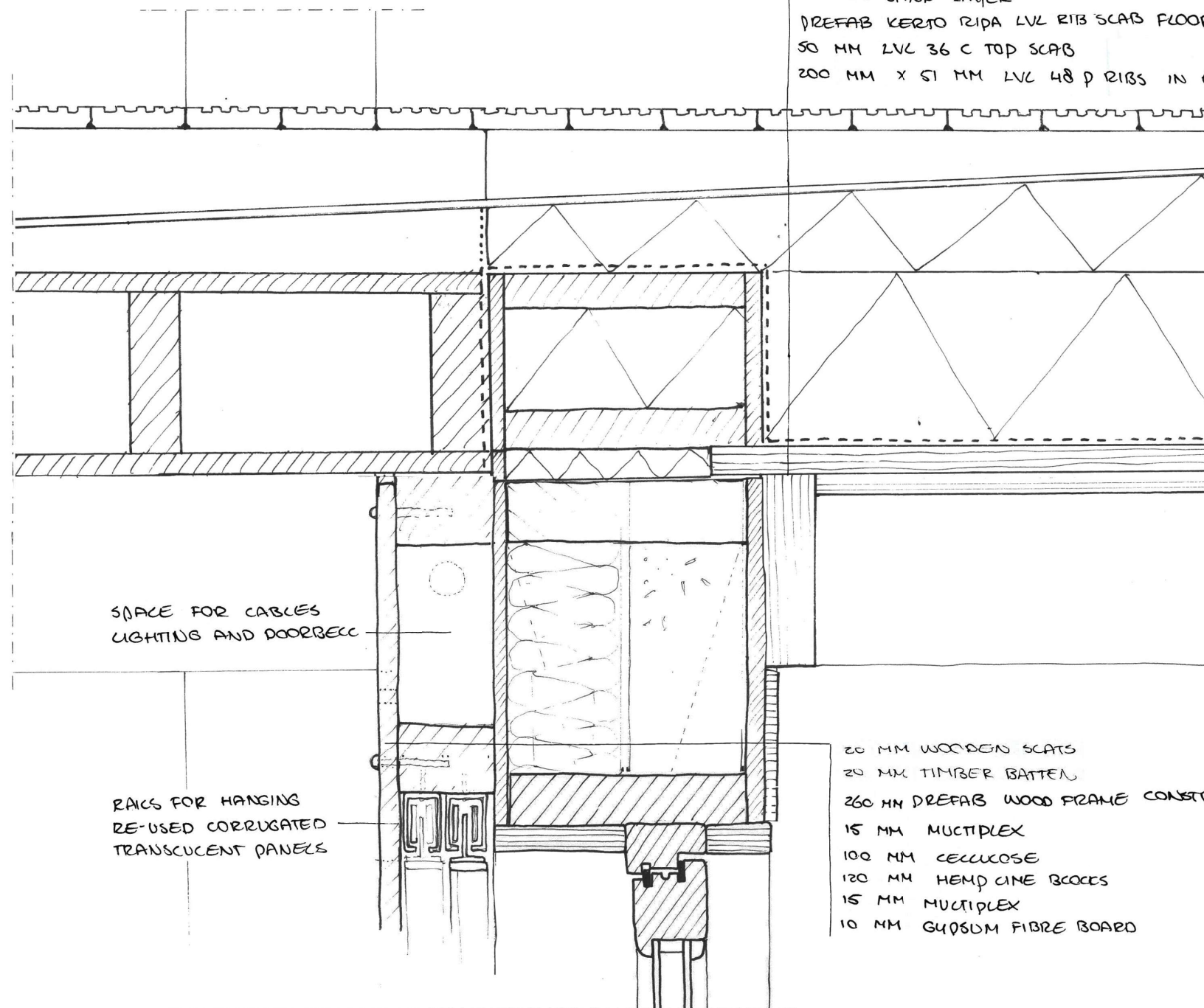
50 MM LVL 36 C TOP SCAB

200 X 51 MM LVL 48 P BI RIBS
 IN 612 MM SPACING





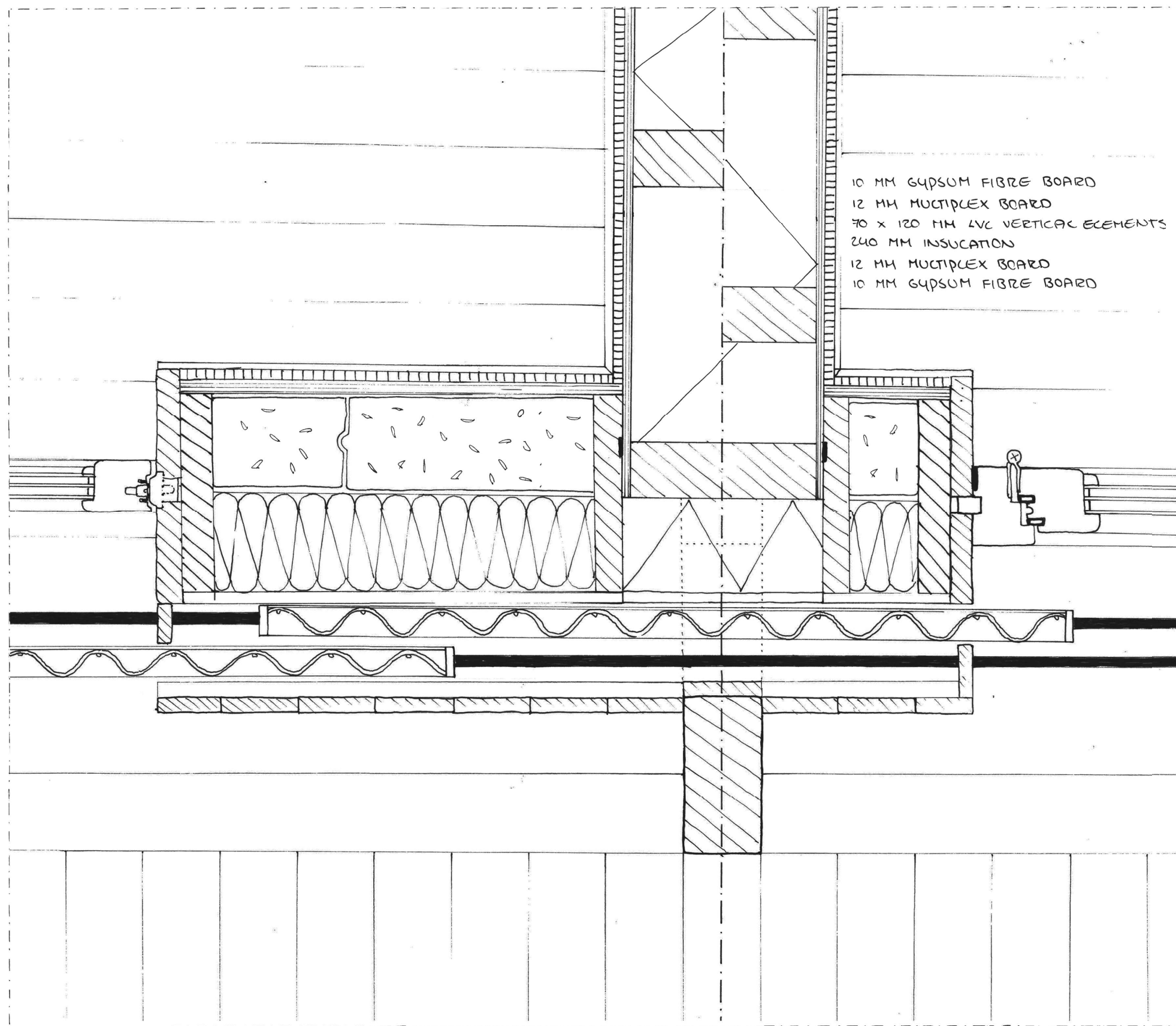
20 MM HARDWOOD DECKING
 20 MM TIMBER BATTENS
 3 MM WATERPROOFING
 40 MM SCANTEN INSULATED PLATE
 100 MM INSULATION BOARD
 60 MM SAND LAYER
 PREFAB KERTO RIDA LVL RIB SCAB FLOORS:
 50 MM LVL 36 C TOP SCAB
 200 MM X 51 MM LVL 48 P RIBS IN 612 5 MM SPACING



SPACE FOR CABLES
 LIGHTING AND DOORBECC

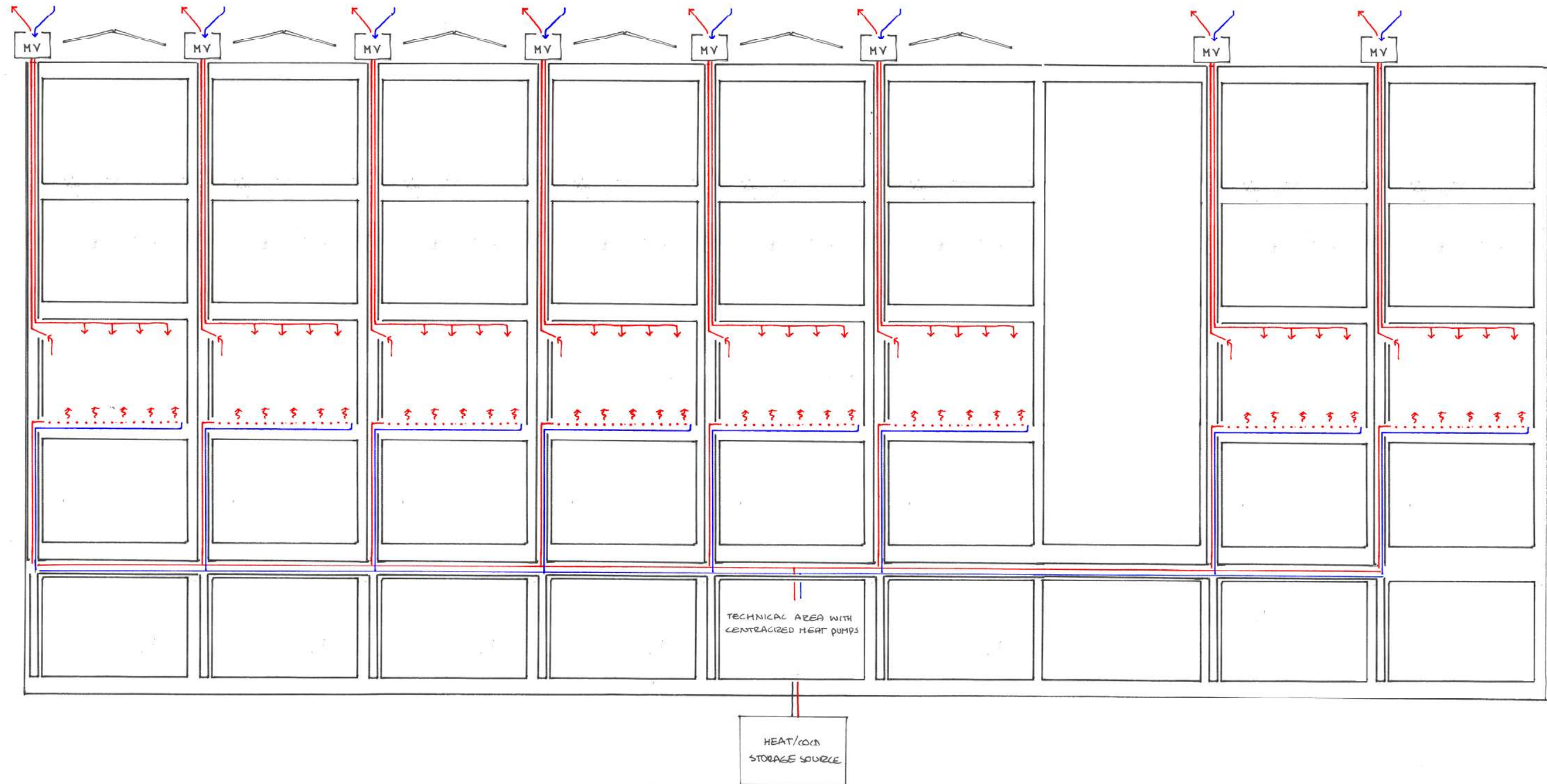
RAILS FOR HANGING
 RE-USED CORRUGATED
 TRANSCUCENT PANELS

20 MM WOODEN SCATS
 20 MM TIMBER BATTEN
 260 MM PREFAB WOOD FRAME CONSTRUCTION ELEMENTS
 15 MM MULTIPLEX
 100 MM CELLULOSE
 120 MM HEMP CINE BOARDS
 15 MM MULTIPLEX
 10 MM GYPSUM FIBRE BOARD



DU PANES PROVIDE A SHARE
OF THE YEARLY ELECTRICITY
DEMAND

FOR EVERY FOUR MODULES,
A MECHANICAL VENTILATION
BOX WITH HEAT RECOVERY



SMARTROOF OPERATING BOTH AS

- WATER BUFFER,
- COUNTERACTING THE HEAT ISLAND EFFECT,
- REFUGEE FOR LOCAL SPECIES

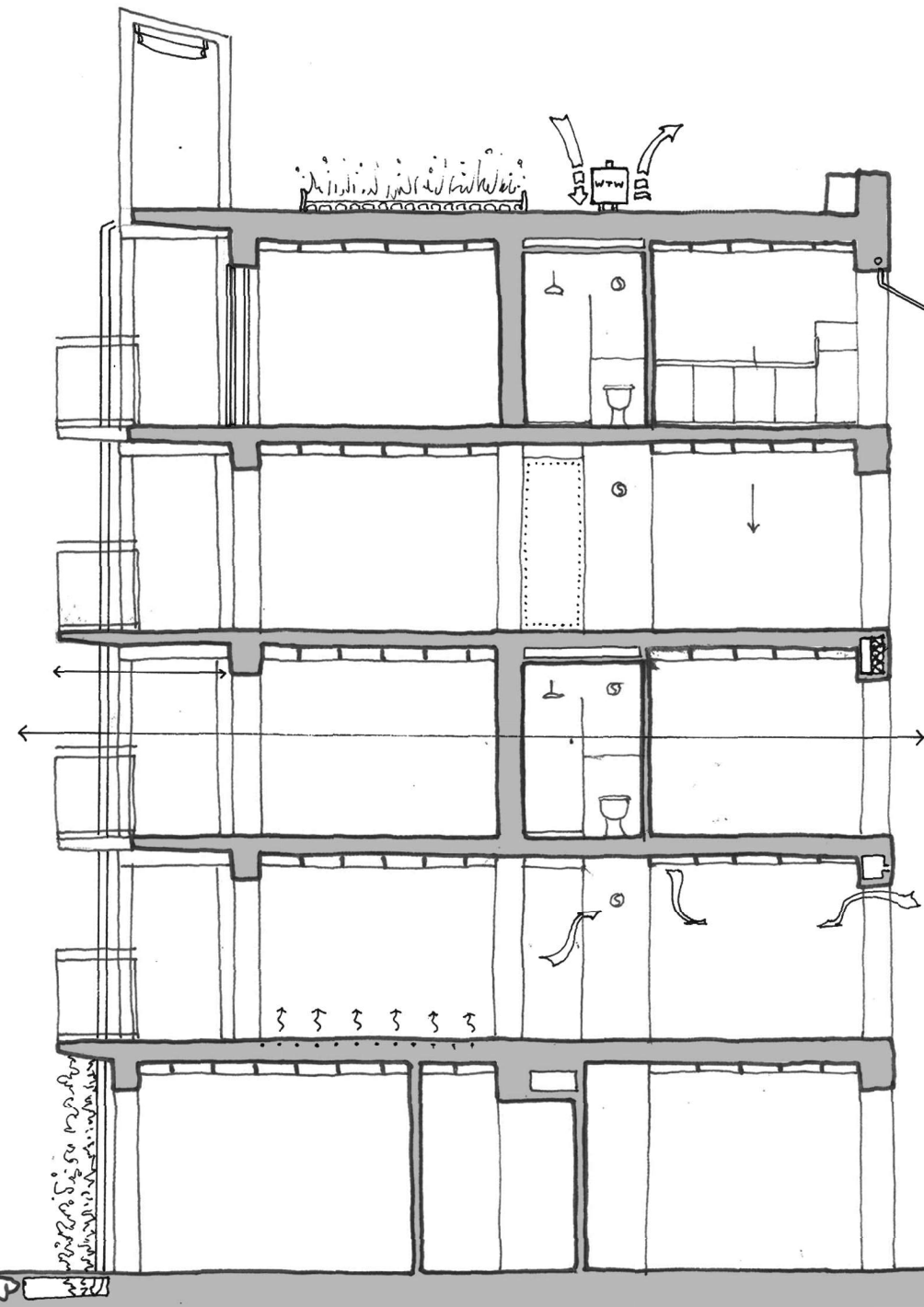
THE PRIVACY OF THE DWELLINGS IS GUARANTEED THROUGH:

- LAYERED FACADE COMPONENTS SUCH AS RE-USED, TRANSCUENT CORRUGATED PANELS.
- THE DECK COLUMNS OPERATING AS SCATS
- DEEP, LIGHT TONED REVEALS REFLECTED IN THE GLASS OF THE WINDOWS
- ZONING THROUGH FINISHING OF THE DECK

OPTIMAL DIMENSIONS CANTILEVER FOR PASSIVE SHADING; PREVENTING DIRECT SUNLIGHT IN SUMMER, WHILE ALLOWING DAYLIGHT ADMISSION IN WINTER

EVERY DWELLING HAS A SEE-THROUGH FOR OPTIMAL DAYLIGHT ADMISSION, AND FOR MEDIATING BETWEEN BOTH SIDES OF THE BUILDING

THE DRAINAGE SYSTEM OF THE DECK WATERS THE ILL WHICH COVERS THE DECK CONSTRUCTION GIVING SHELTER TO SEVERAL BEE AND BUTTERFLY SPECIES



A HYBRID, MECHANICAL AND NATURAL VENTILATION SYSTEM ALLOWS FOR A COMFORTABLE AND HEALTHY INDOOR CLIMATE ALL YEAR LONG.

RECESSES IN THE WOODFRAME CONSTRUCTION ALLOW FOR EASY RENOVATIONS IN CASE OF FUTURE COMBINATIONS OF THE MODULES.

HEMP CEMENT AND CELLULOSE MAKE UP THE BIO-BASED, HYBRID INSULATION WITH EXCELLENT VAPOUR TRANSMISSION

BEDROOMS ARE POSITIONED PRIMARILY ON THE EAST, WHEREAS THE LIVING AREAS ARE ORIENTATED ON THE WEST

BATS AND SWIFTS CAN NEST IN THE NESTING BOXES IN THE FACADE, RESPECTIVELY ON THE WEST AND EAST.

VENTILATION CHANNELS ARE HIDDEN BEHIND A SUSPENDED CEILING.

THE HYBRID, PREFAB CONSTRUCTION OF WOODFRAME CONSTRUCTION AND LVL FLOORS ALLOWS FOR QUICK CONSTRUCTION

