PERMANENT TEMPORALITY

A collection of final products

A part of graduating in the Urban Architecture studio at the Technical University of Delft by Stefan Sinnige

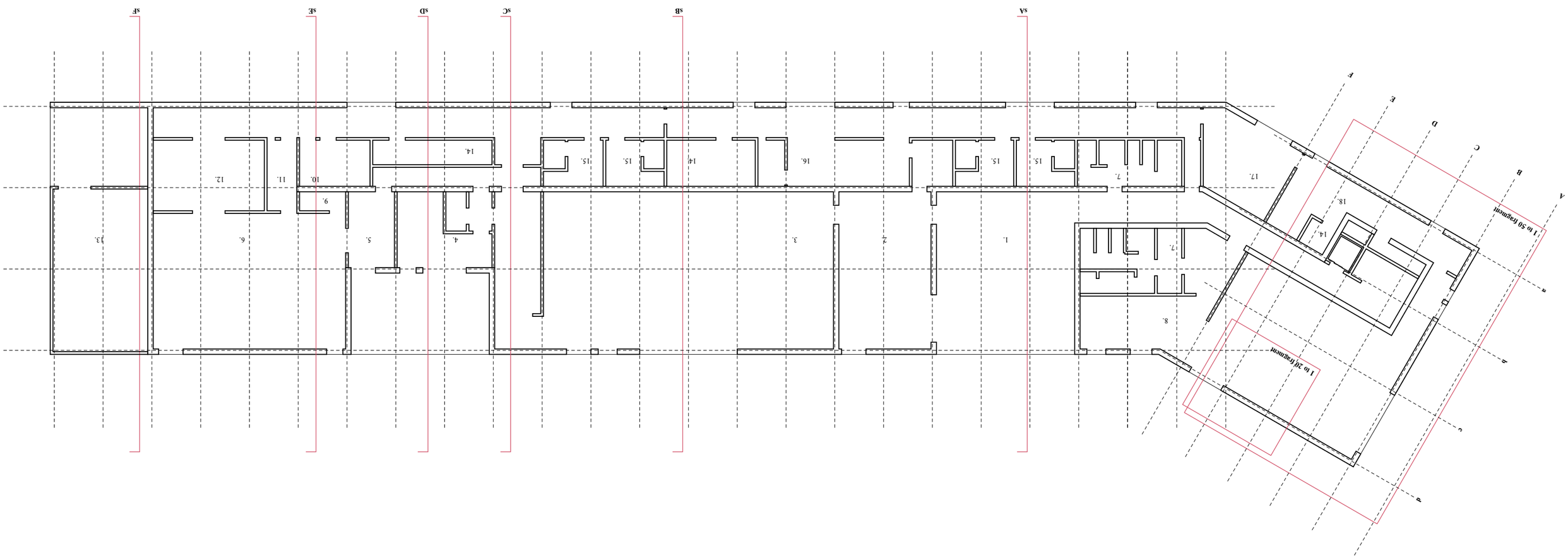
26th of June 2024

Position of sections and fragments_1 to 200_-0_N↗

Scaled to 70%

Served space:
1. Waiting patio
2. Waiting room
3. Ceremony space
4. Family (wainting) room
5. Witnessroom
6. Crematorium
7. Lavatory
8. Condolence space

Serving space:
9. Control room
10. Preperation room
11. Ashes processing
12. Mortuary
13. Technical space
14. Storage
15. Dressing rooms
16. Office
17. Canteen
18. Kitchen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1 to 50 Fragment
1 to 25 Fragment

permanent temporality

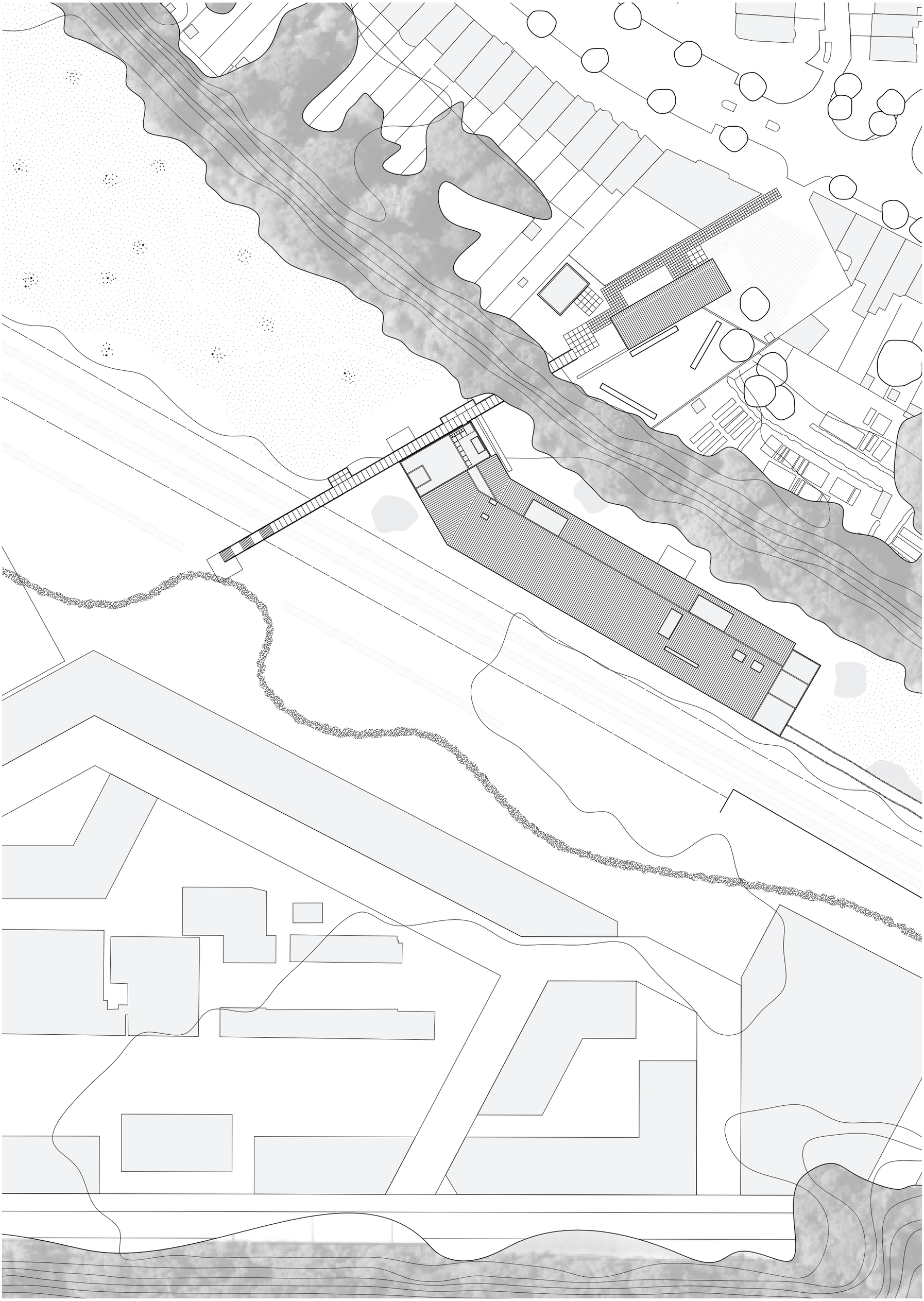
Situation_1 to 1000_N↑

Scaled to 70%

permanent temporality

Situation_1 to 500_N ↑

Scaled to 70%



Main buildig ground floor plan_1 to 200_-0_N↗

Scaled to 70%

Served space:
1. Waiting patio
2. Waiting room
3. Ceremony space
4. Family (wainting) room
5. Witnessroom
6. Crematorium
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Serving space:
9. Control room
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17. Canteen
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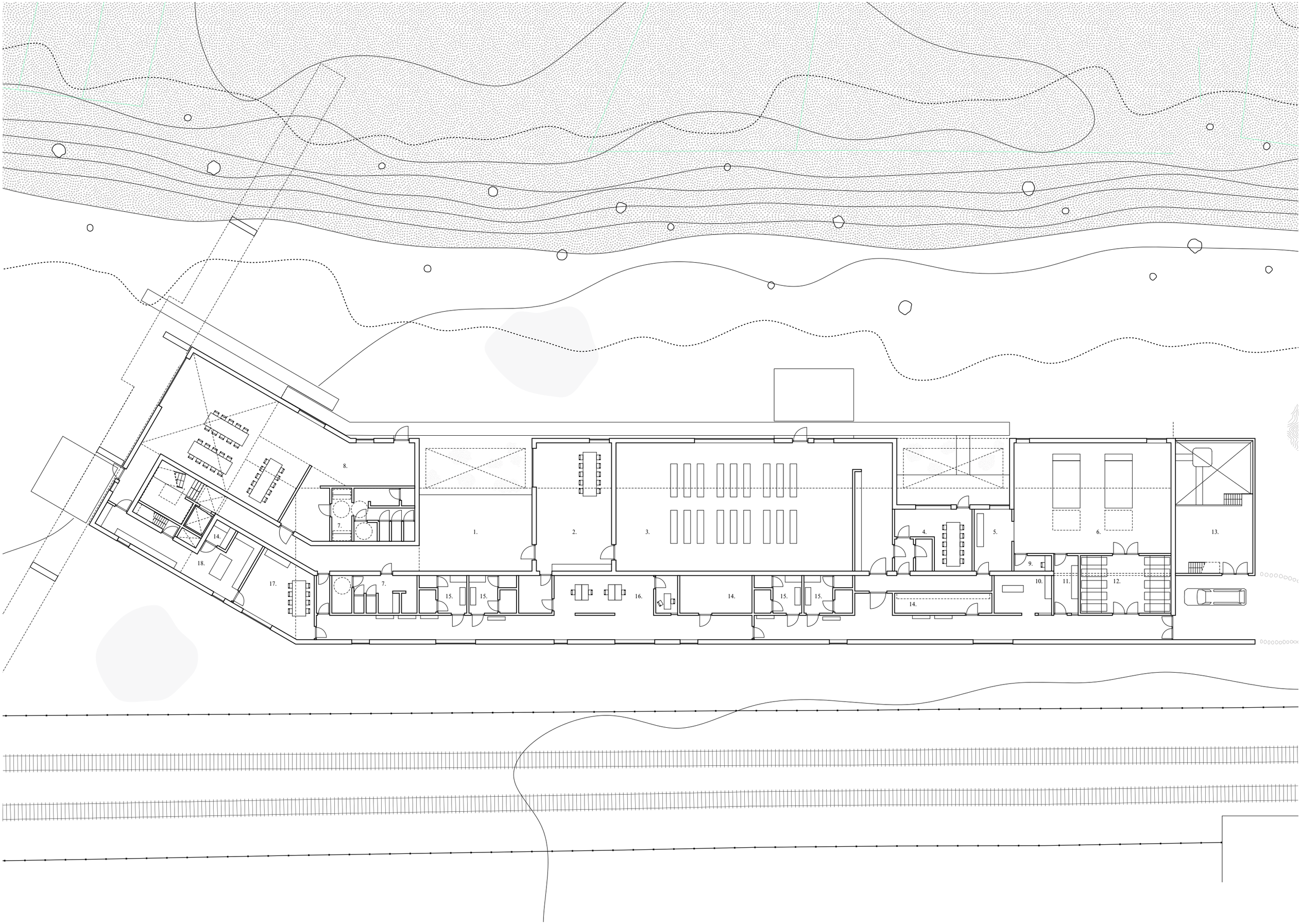
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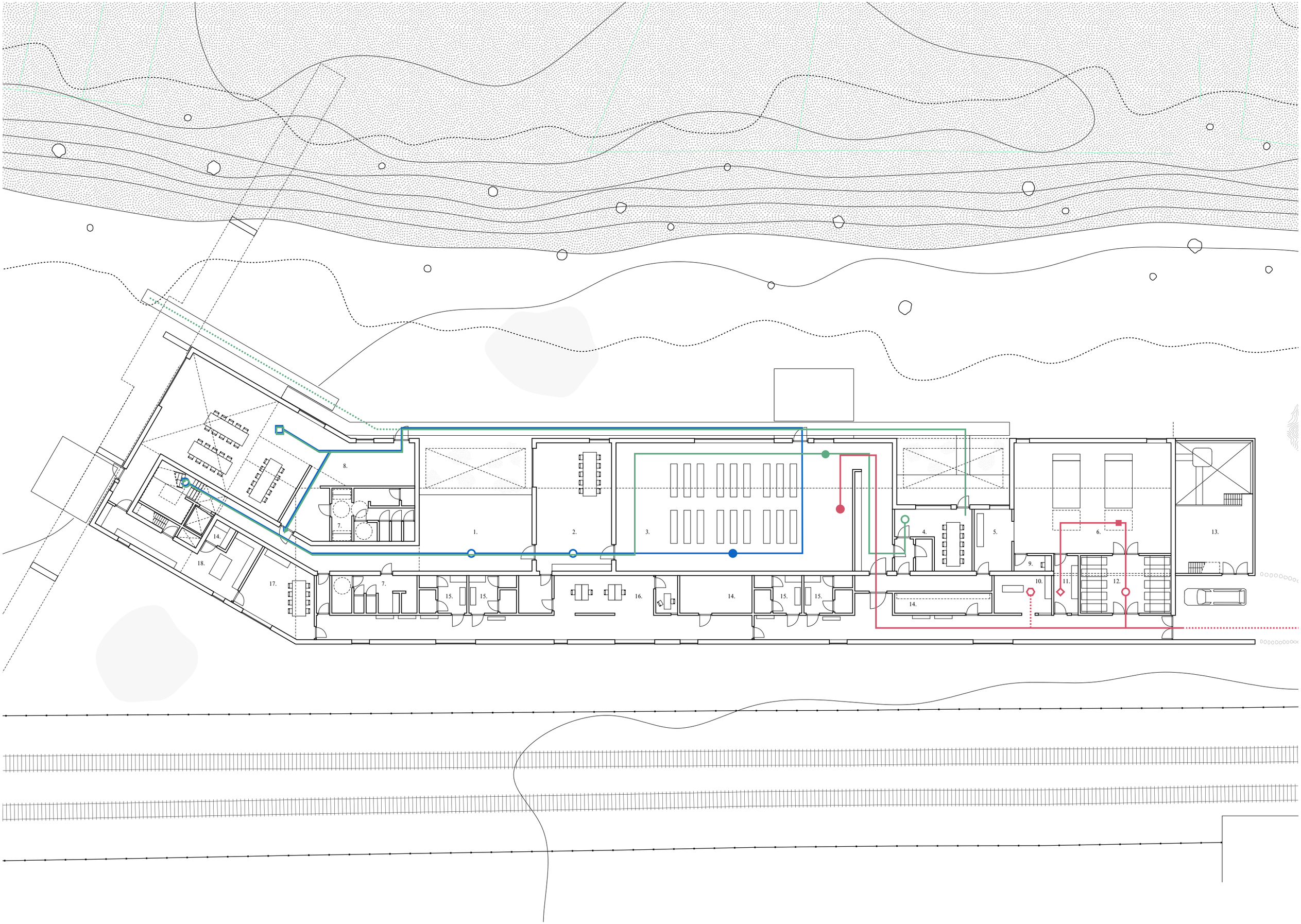
Main buildig ground floor plan_1 to 200_-0_N↗

Scaled to 70%

Served space:
1. Waiting patio
2. Waiting room
3. Ceremony space
4. Family (wainting) room
5. Witnessroom
6. Crematorium
7. Lavatory
8. Condolence space

Serving space:
9. Control room
10. Preperation room
11. Ashes processing
12. Mortuary
13. Technical space
14. Storage
15. Dressing rooms
16. Office
17. Canteen
18. Kitchen

Family flow
Visitor flow
Coffin flow
Optional body preparation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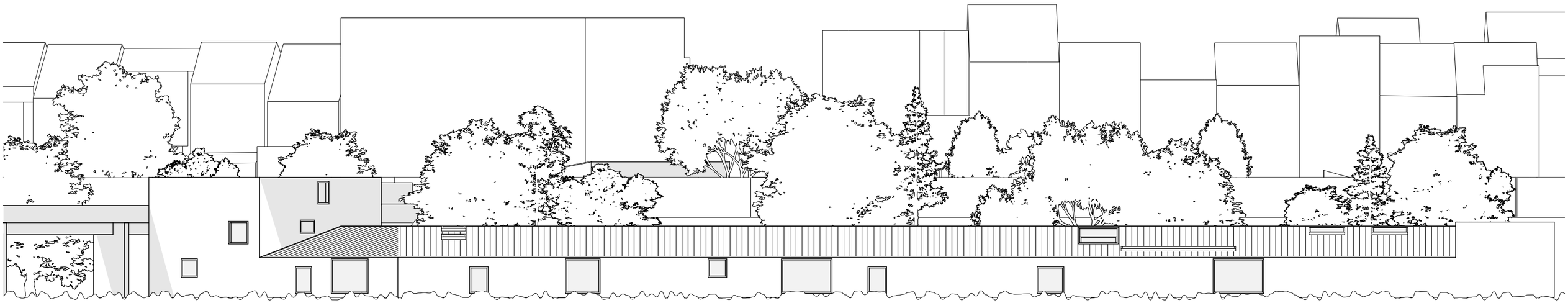
West elevation_1 to 200

Scaled to 70%

East elevation_1 to 200

Scaled to 70%



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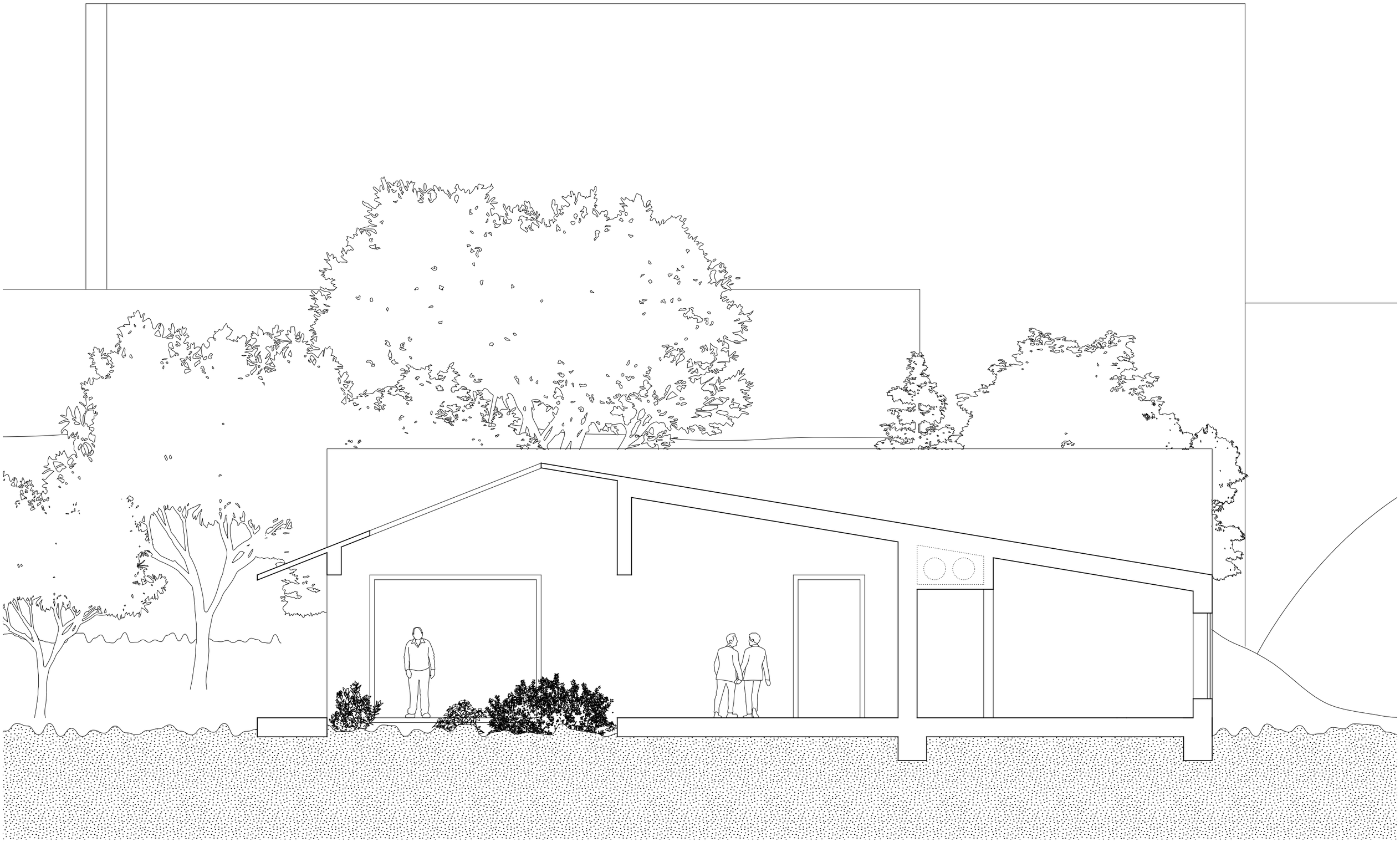
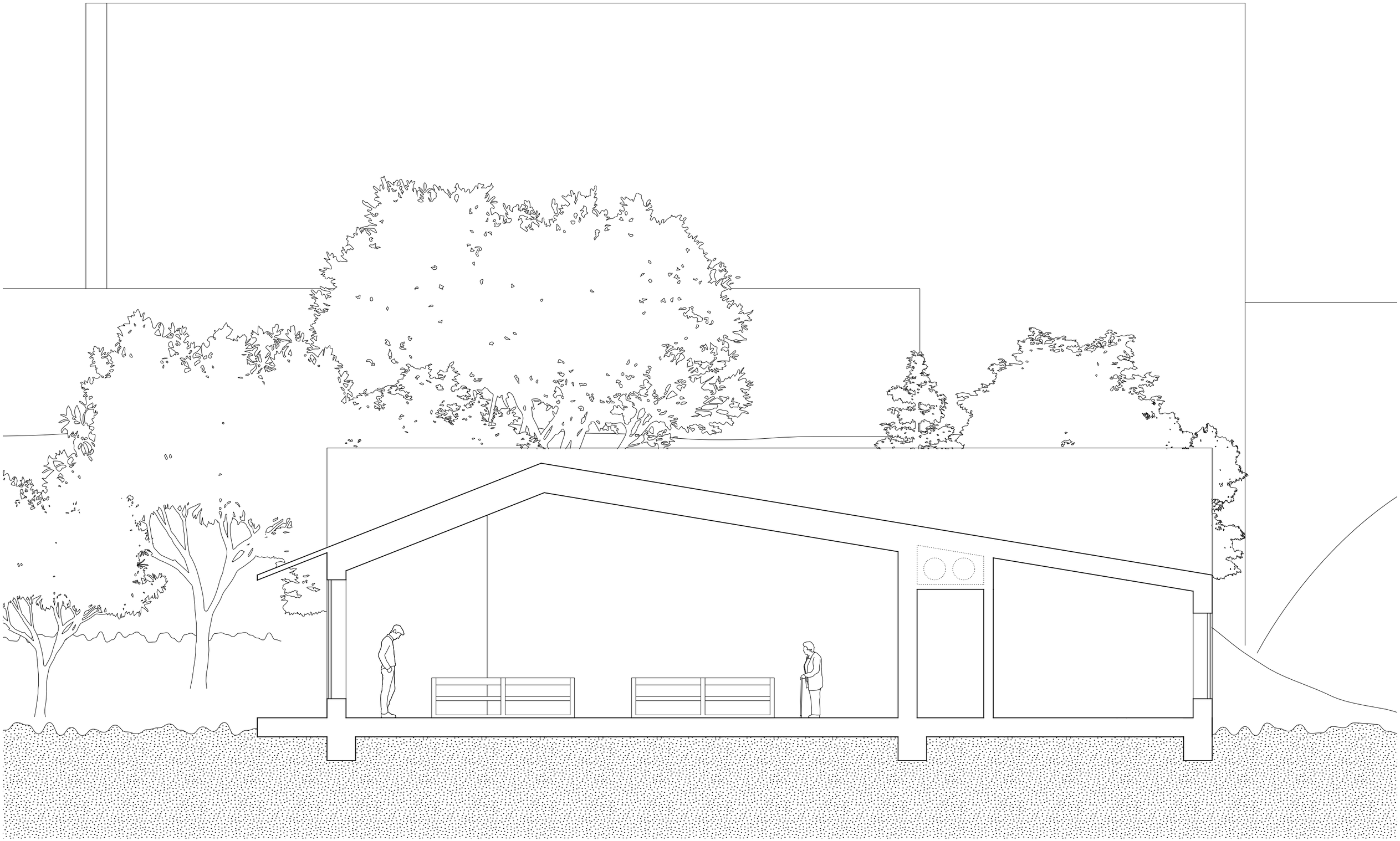


Section B_1 to 50

Scaled to 70%



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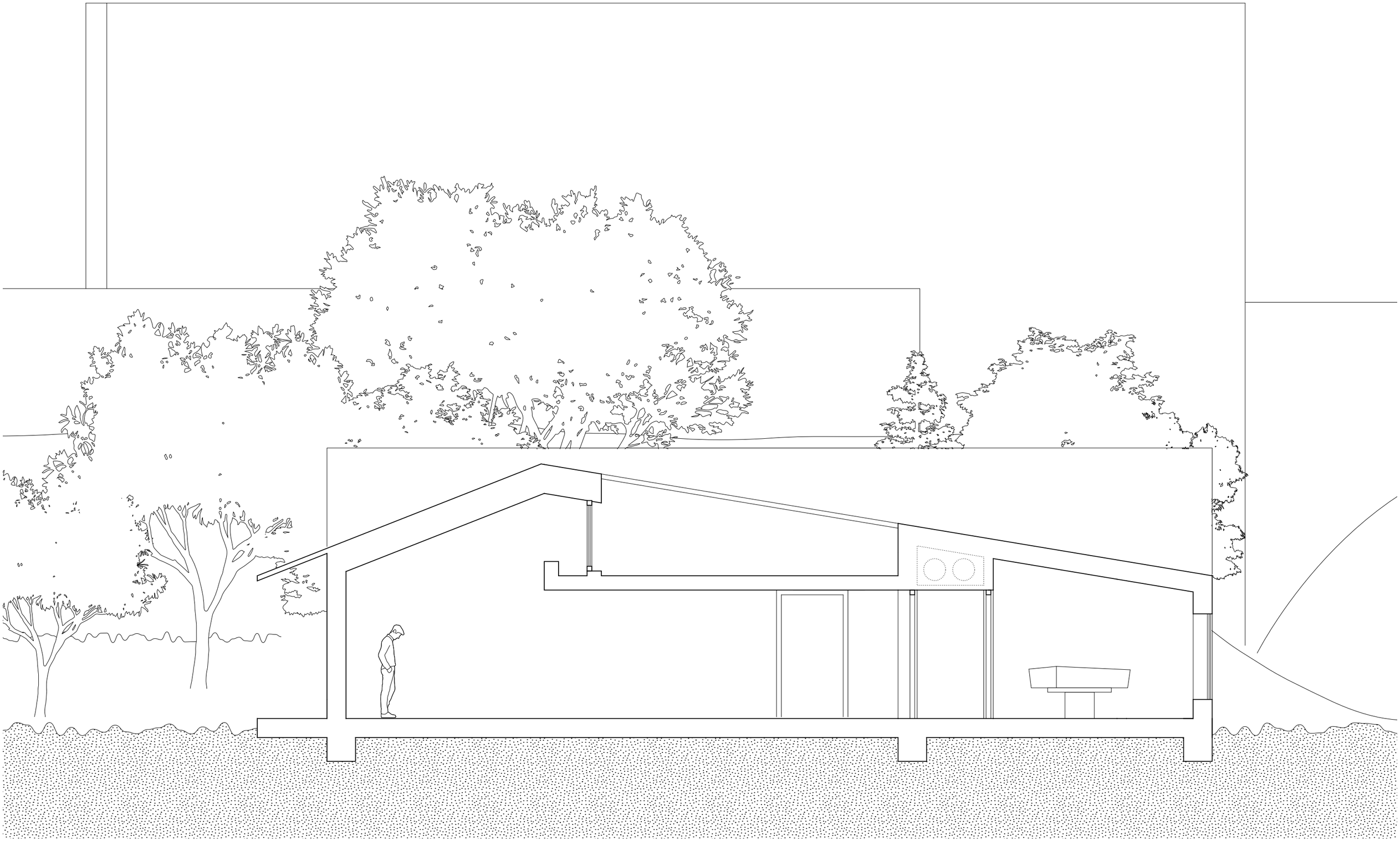

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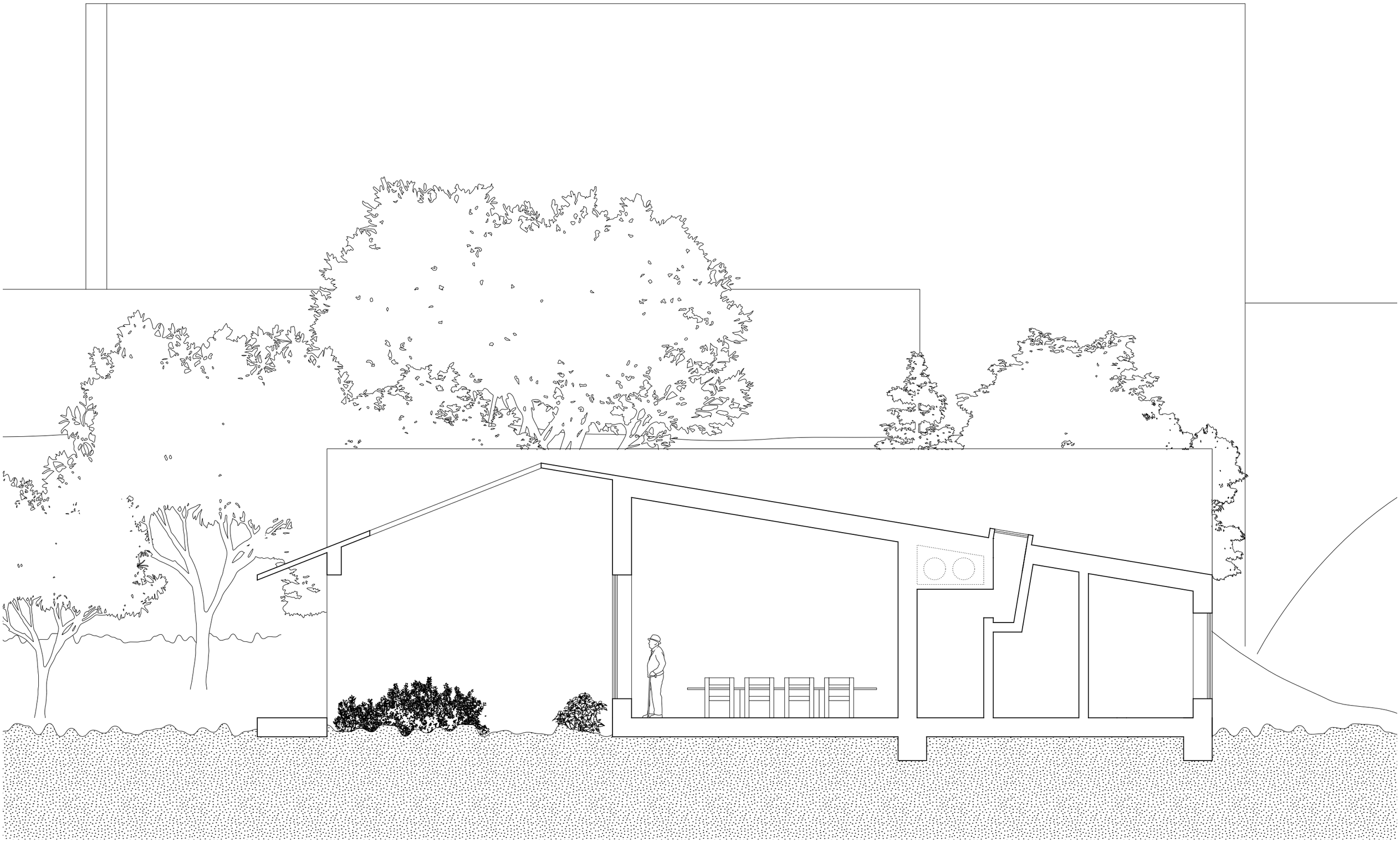

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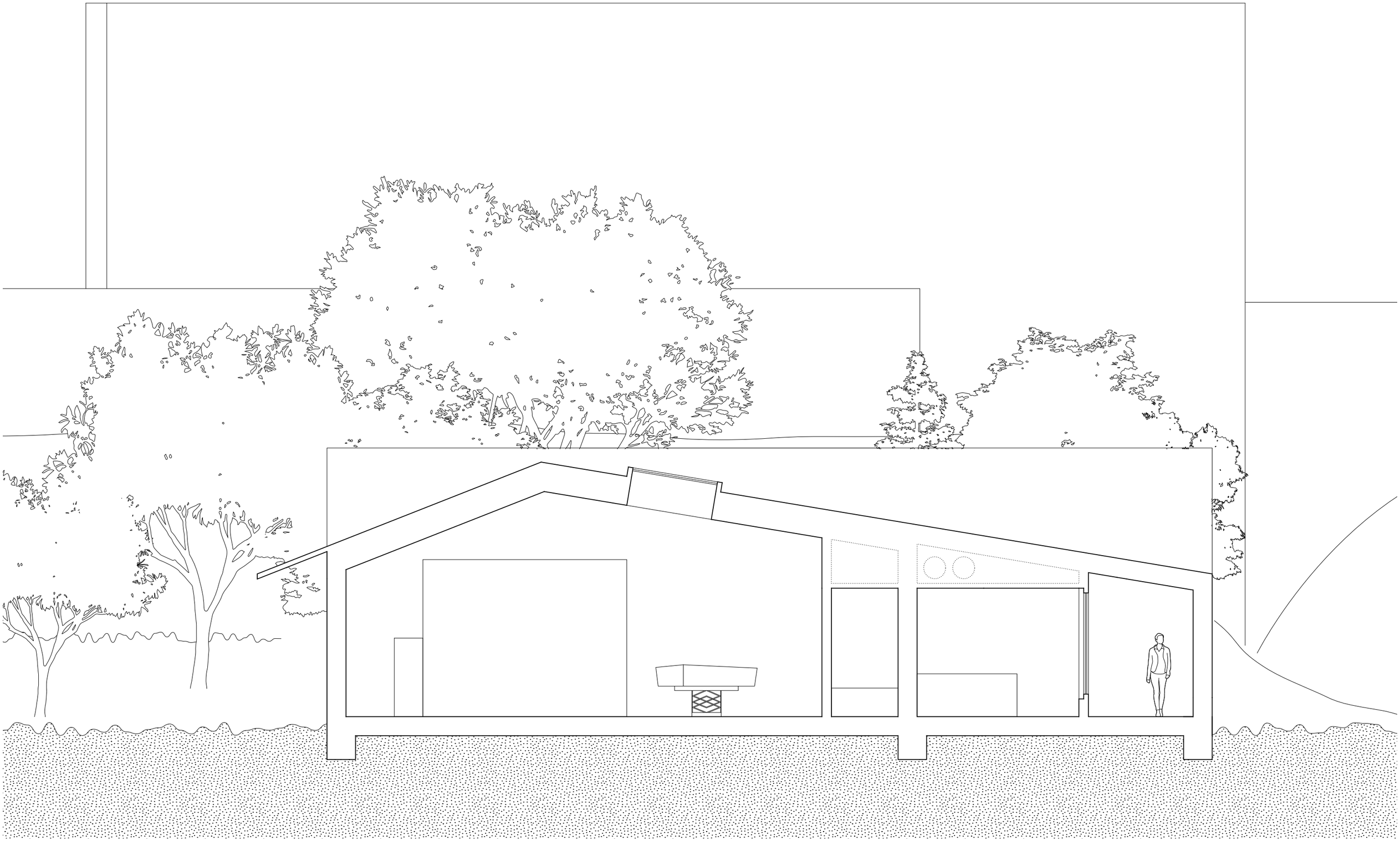

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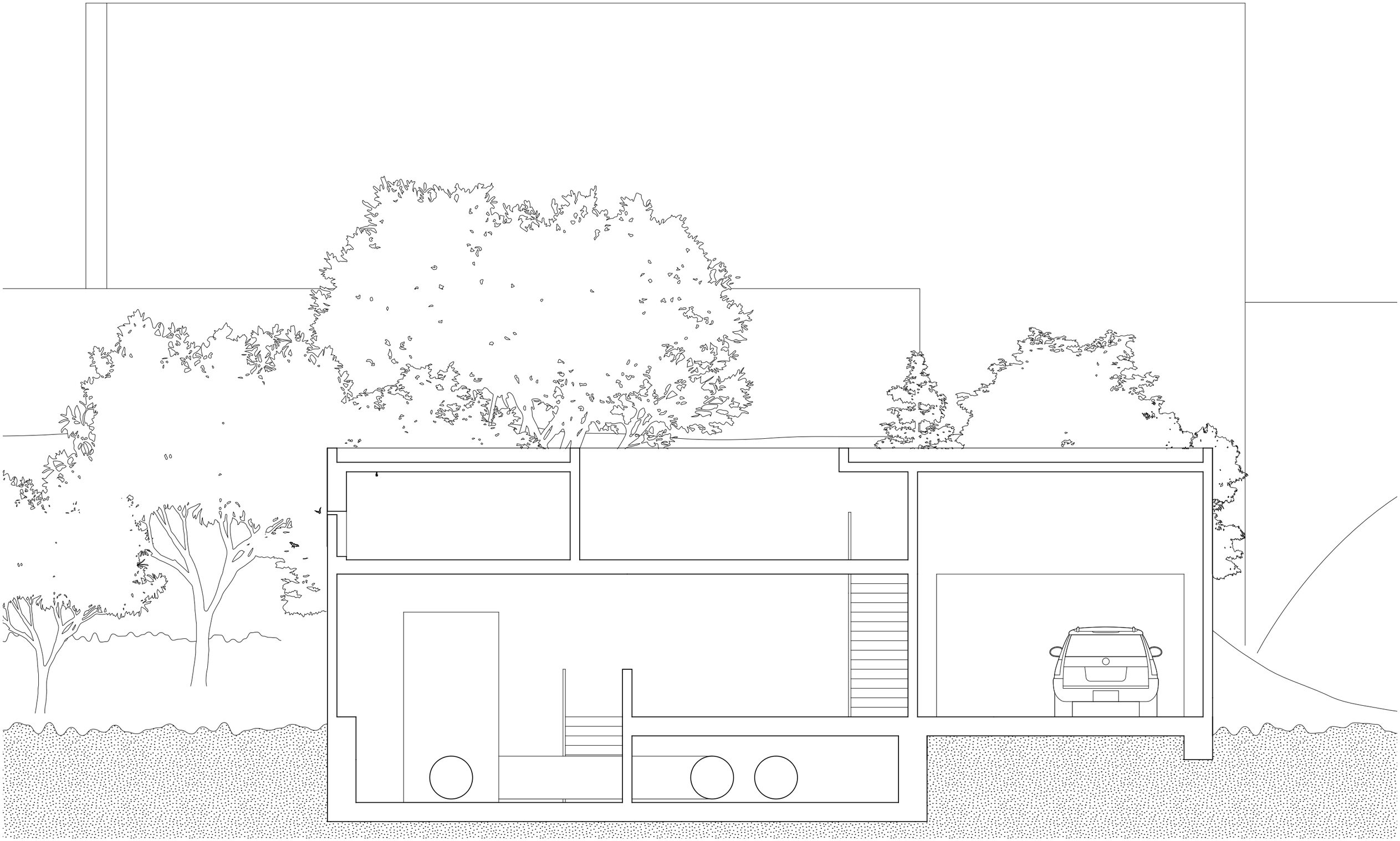
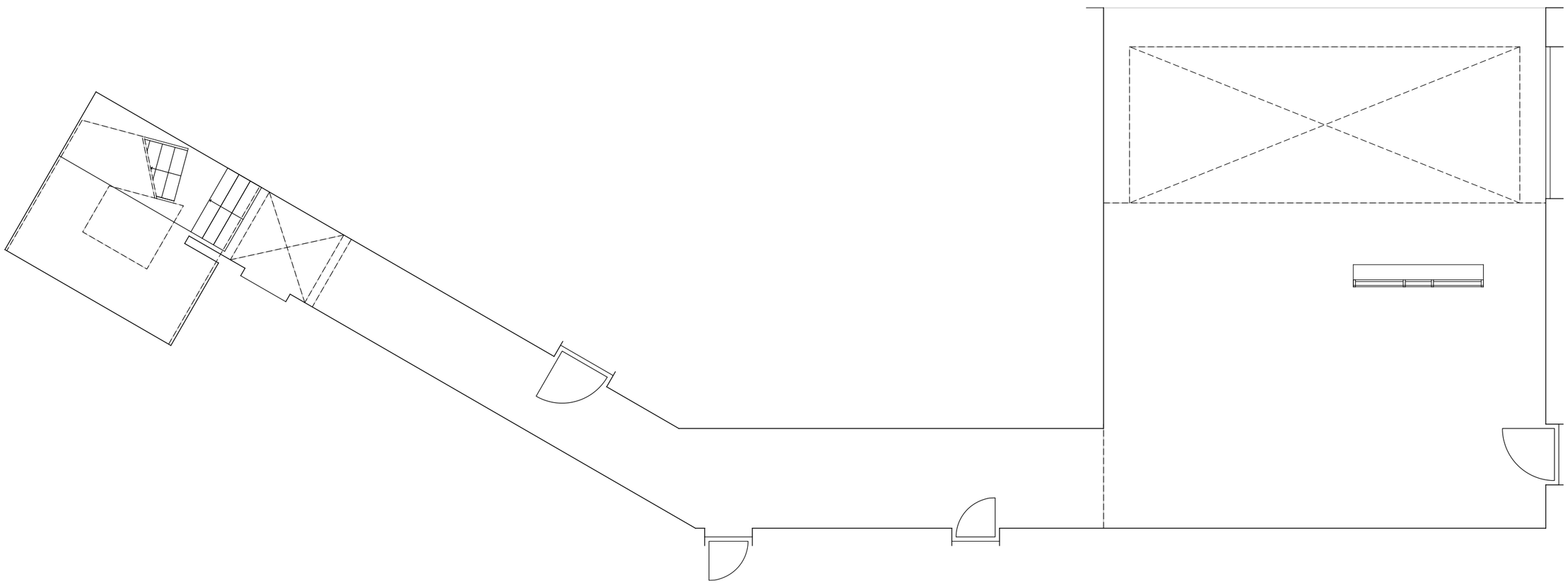


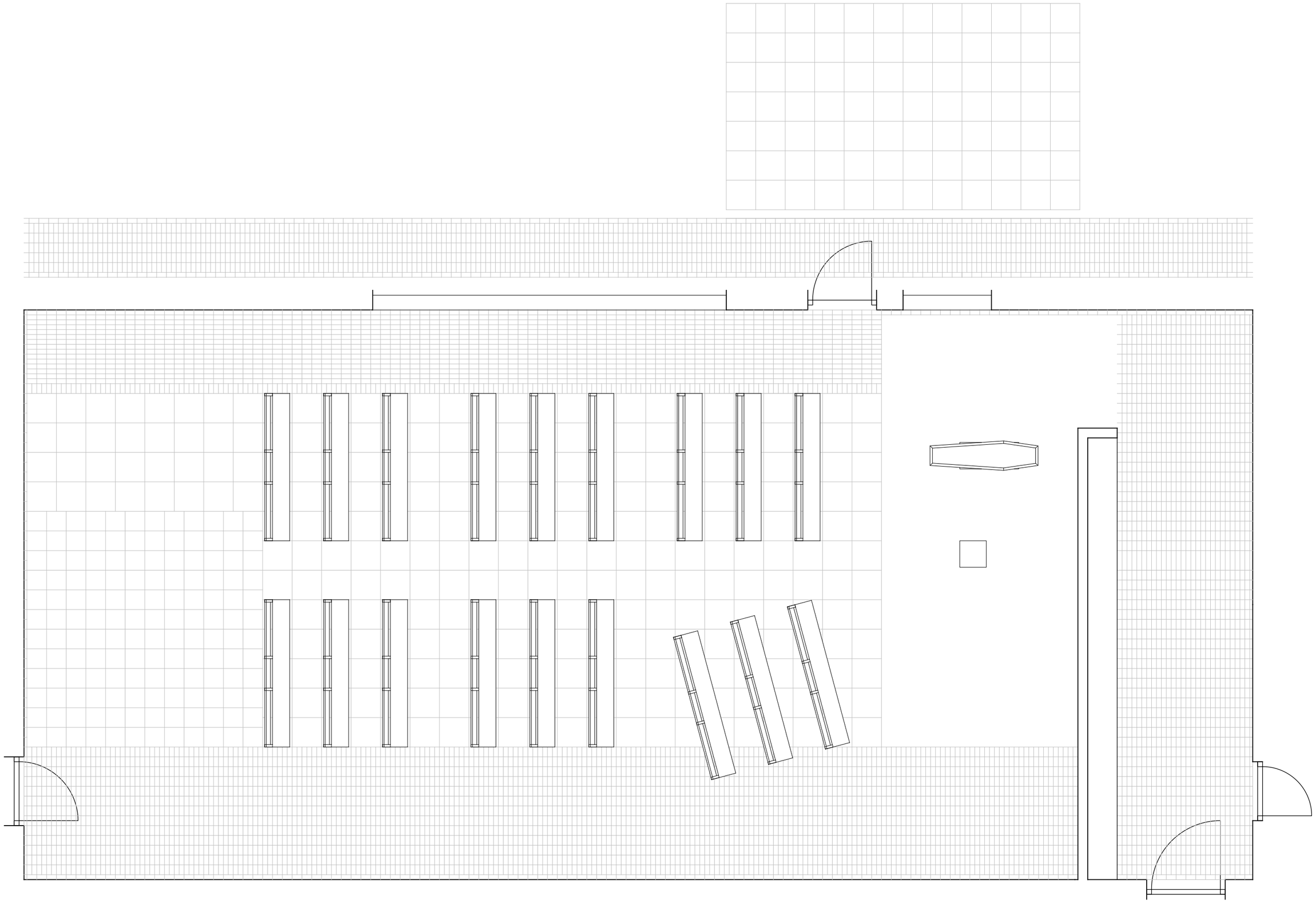
Isolation of the outside transition from stair to ceremony_plan_1 to 50_N ↗

Scaled to 50%

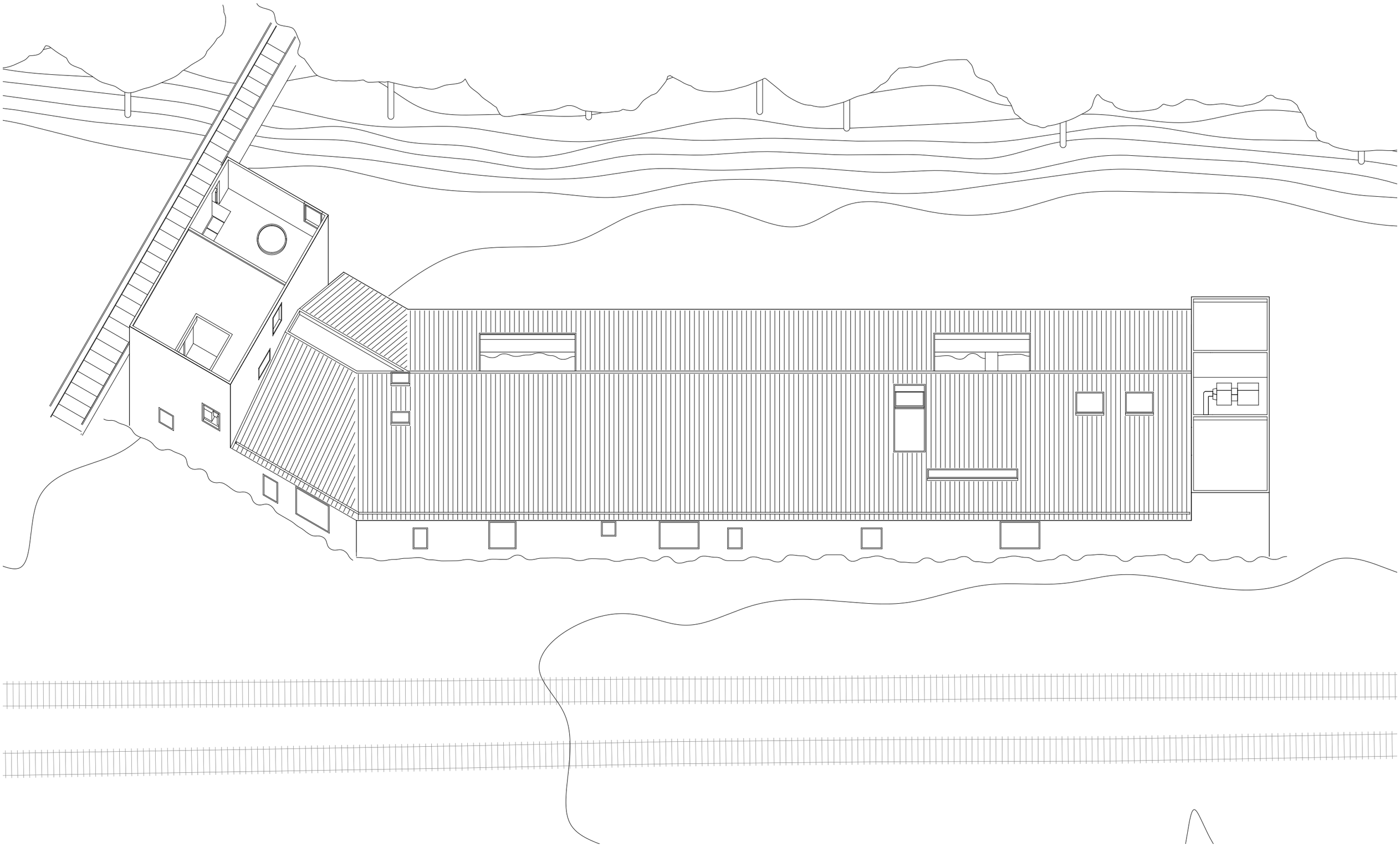


Isolation of the ceremony space_plan_1 to 50_N↗

Scaled to 70%



BUILDING TECHNOLOGY



Maintaining the mature trees by only going through this layer with a bridge. This is among others important for the birds.

The shape of the building breaks the dominant wind from the south west of the valley.

The building will introduce water concentration in the surrounding landscape. Diversity can benefit from these dynamic conditions.

The intelligent ruin allows for different purposes. A bat tower is placed above the flue gas cooler. The residual heat will create favorable conditions for the bats to hibernate.

Adding mass in the constructive wall and floors improves thermal and acoustic comfort.

Solar panels are positioned on the flat roofs, so they are not visible. The electrical cremation oven can be partially powered by the generated energy.

A thermal exchanger utilizes the heat produced by the mortuary and crematorium. To reduce installations this will be distributed by air.

The spaces are organized so that the serving spaces form a sound barrier in between the train and the ceremony.

In the wet environment the paths are constructed with dry stacked stone walls and gravel.

Intelligent ruin_1 to 50_+6000_N

Scaled to 70%

0009

3600

+6000

+4600

F

E

D

C

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A

d

c

b

a

Intelligent ruin_1 to 50_+3000_N

Scaled to 70%

F E D C B A

3600

6000

+3400 +2000 +3000

a b c p

Intelligent ruin_1 to 50_-0_N ↖

Scaled to 70%

0009

3600

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b

a

Technical fragment_1 to 20

Scaled to 70%

1) Wood construction facade
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Fibre cement board_10mm
- Compressive strength woodfibre insulation_160mm
- Timber frame wall_240mm
  -Wooden columns_120*240mm_c-c 1800mm
  - Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- Water-resistant, vapour open foil
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

2) Brick facade
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Constructive wall of reused ‘modulemaat’ bricks (190*90*50mm) crossbond_190mm
- Cavity_40mm
  -Cavity battens_40*60mm_c-c 600mm
- Water-resistant, vapour open foil
- Timber frame inner wall_180mm
  -Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

a) Window frame
Wooden window frame with aluminium exterior frame cover. Positioned flush with the exterior finishing.


494
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detail A
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Detail A_1 to 10

1) Wood construction facade
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Fibre cement board_10mm
- Compressive strength woodfibre insulation_160mm
- Timber frame wall_240mm
  -Wooden columns_120*240mm_c-c 1800mm
  - Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- Water-resistant, vapour open foil
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

2) Brick facade
outside
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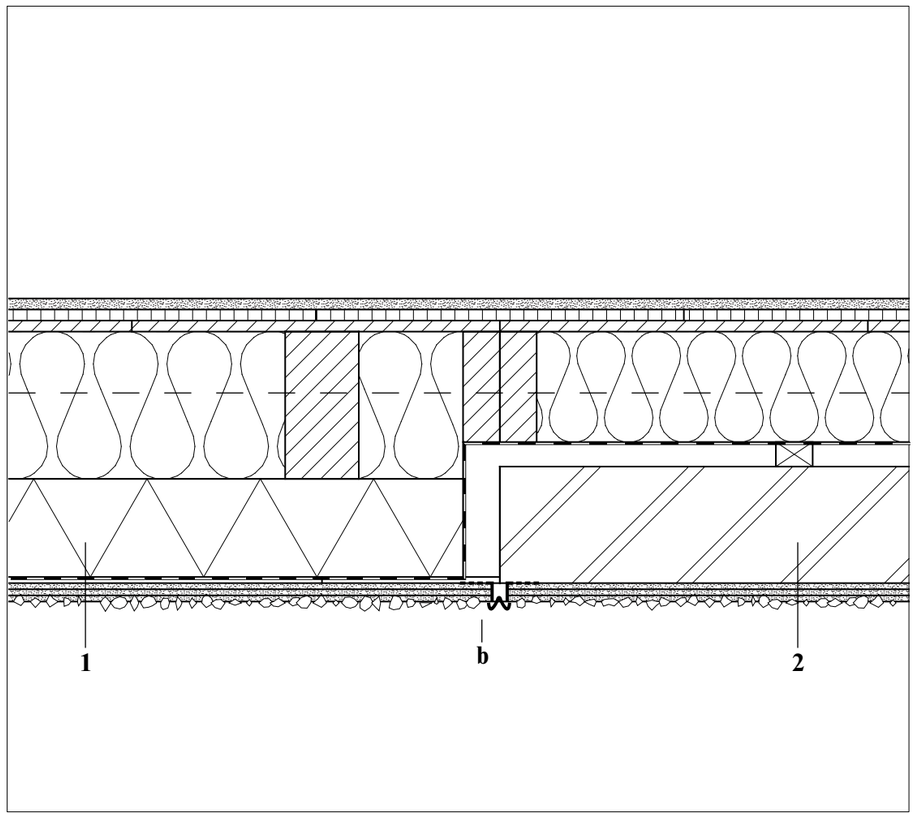
- Cavity_40mm
  -Cavity battens_40*60mm_c-c 600mm
- Water-resistant, vapour open foil
- Timber frame inner wall_180mm
  -Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

b) Plaster finish expansion joint unlike walls
- Zinc corrosion resistant expanded flange control joint with a taped reveal
- Reinforced lime plaster base coat_10mm
- Second coat of lime plaster_10mm
- Final coat of lime plaster with pebbles of recycled roof tiles_10mm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Technical fragment_1 to 20

Scaled to 70%

2) Brick facade
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Constructive wall of reused ‘modulemaat’ bricks (190*90*50mm) crossbond_190mm
- Cavity_40mm
  -Cavity battens_40*60mm_c-c 600mm
- Water-resistant, vapour open foil
- Timber frame inner wall_180mm
  -Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

3) Outside brick wall

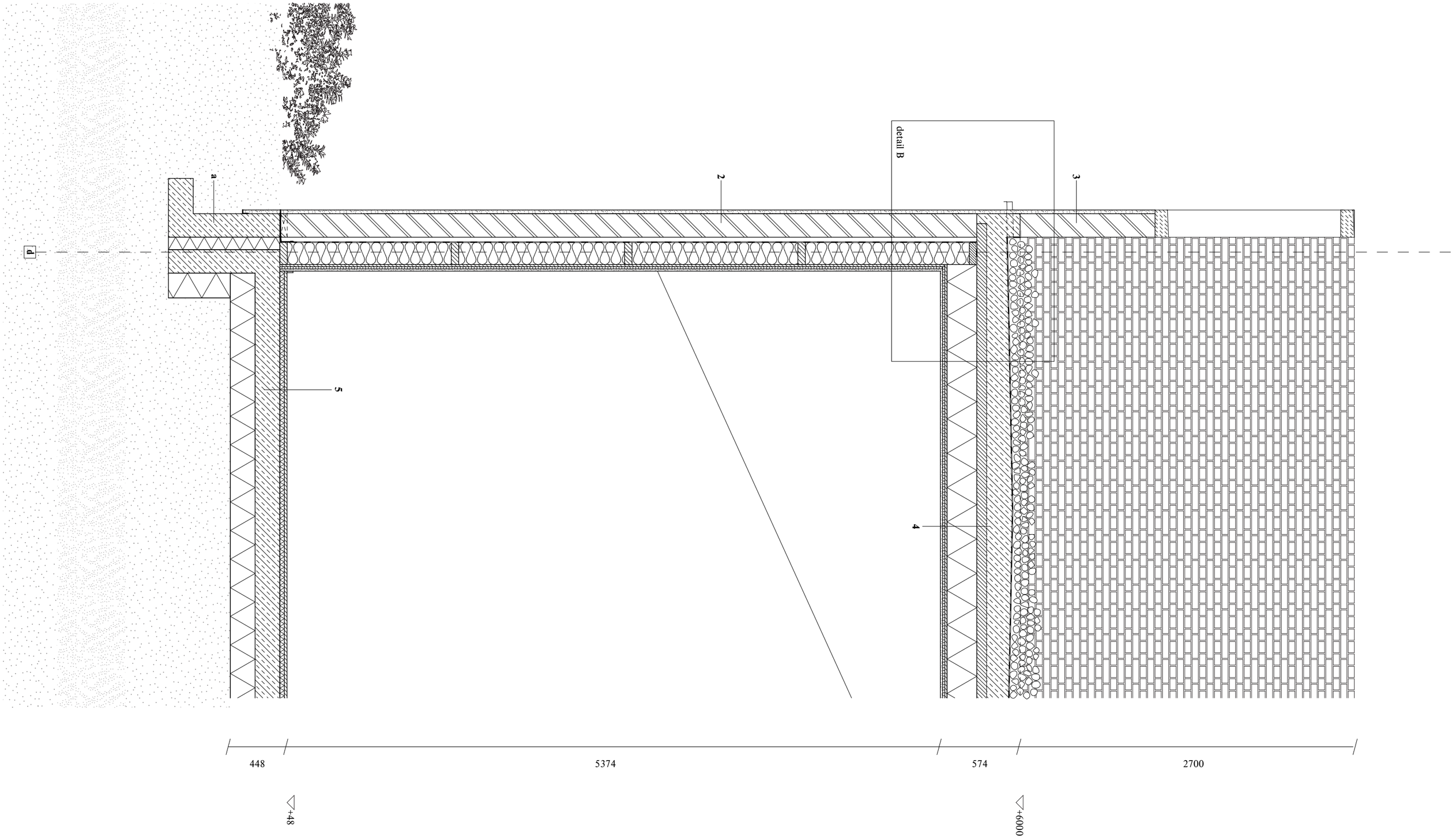
- Lime plaster with recycled roof tile pebbles_30mm
- Constructive wall of reused ‘modulemaat’ bricks (190*90*50mm) crossbond_190mm
- Sandblasted finish

4) Concrete roof patio
outside
- Gravel
- EPDM roof foil
- Sloped casted concrete_<200mm
- Precast wide slab floor_80mm
- Compressive strength woodfibre insulation_240mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

5) Concrete floor slab
outside
- Closed cell insulation in compressed sand bedding_200mm
- Cast in place concrete_200mm
- Acoustic insulation, to level wooden floor with tiled floors_36mm
- Wooden floor boards_12mm
inside

a) Foundation

Floor slab and and constructive wall foundation are seperated to maintain the concrete surfaces when the building will become a ruin.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Detail B_1 to 10

2) Brick facade
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Constructive wall of reused ‘modulemaat’ bricks (190*90*50mm) crossbond_190mm
- Cavity_40mm
  -Cavity battens_40*60mm_c-c 600mm
- Water-resistant, vapour open foil
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  -Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

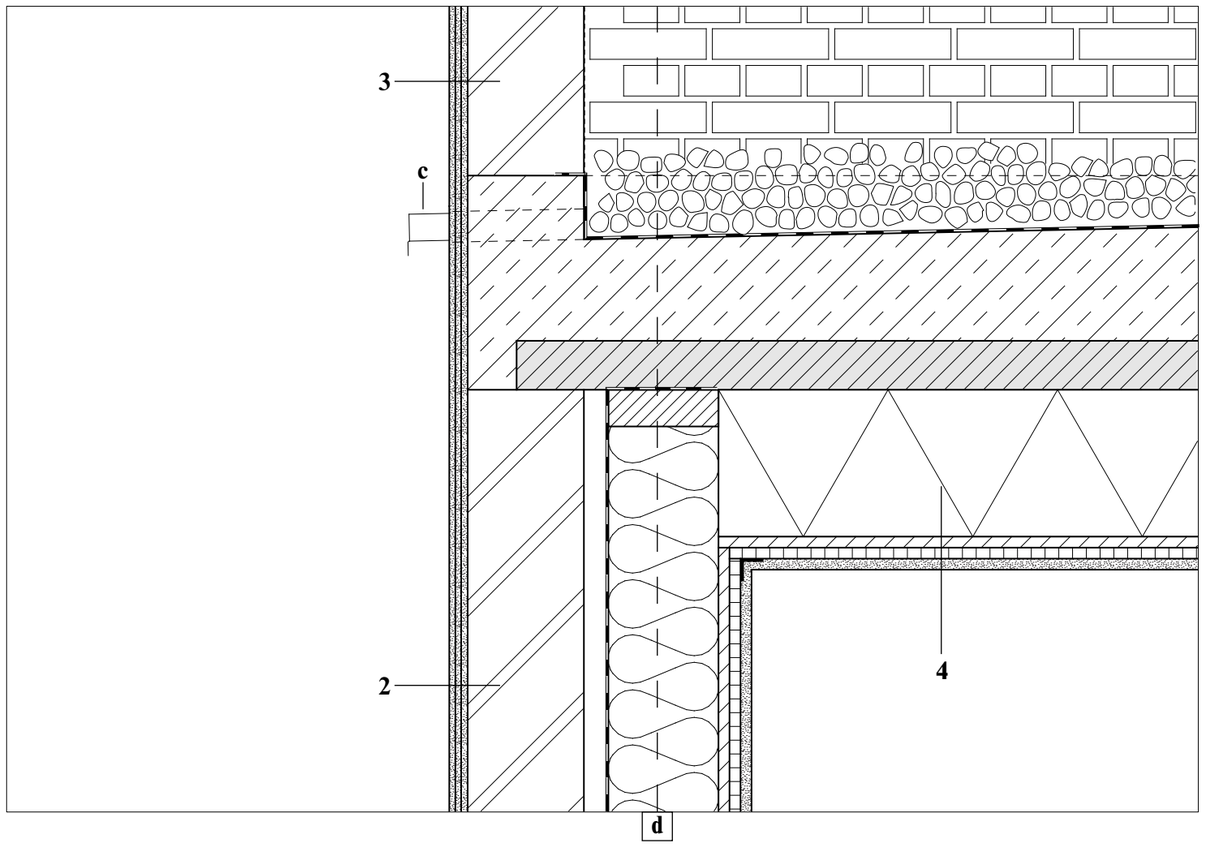
3) Outside brick wall

- Lime plaster with recycled roof tile pebbles_30mm
- Constructive wall of reused ‘modulemaat’ bricks (190*90*50mm) crossbond_190mm
- Sandblasted finish

4) Concrete roof patio
outside
- Gravel
- EPDM roof foil
- Sloped casted concrete_<200mm
- Precast wide slab floor_80mm
- Compressive strength woodfibre insulation_240mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

c) Metal water spoud

Occasional opening for water drainage with metal water spoud.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Technical fragment_1 to 20

Scaled to 70%

1) Wood construction facade
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Fibre cement board_10mm
- Water-resistant, vapour open foil
- Compressive strength woodfibre insulation_160mm
- Timber frame wall_240mm
  -Wooden columns_120*240mm_c-c 1800mm
  - Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

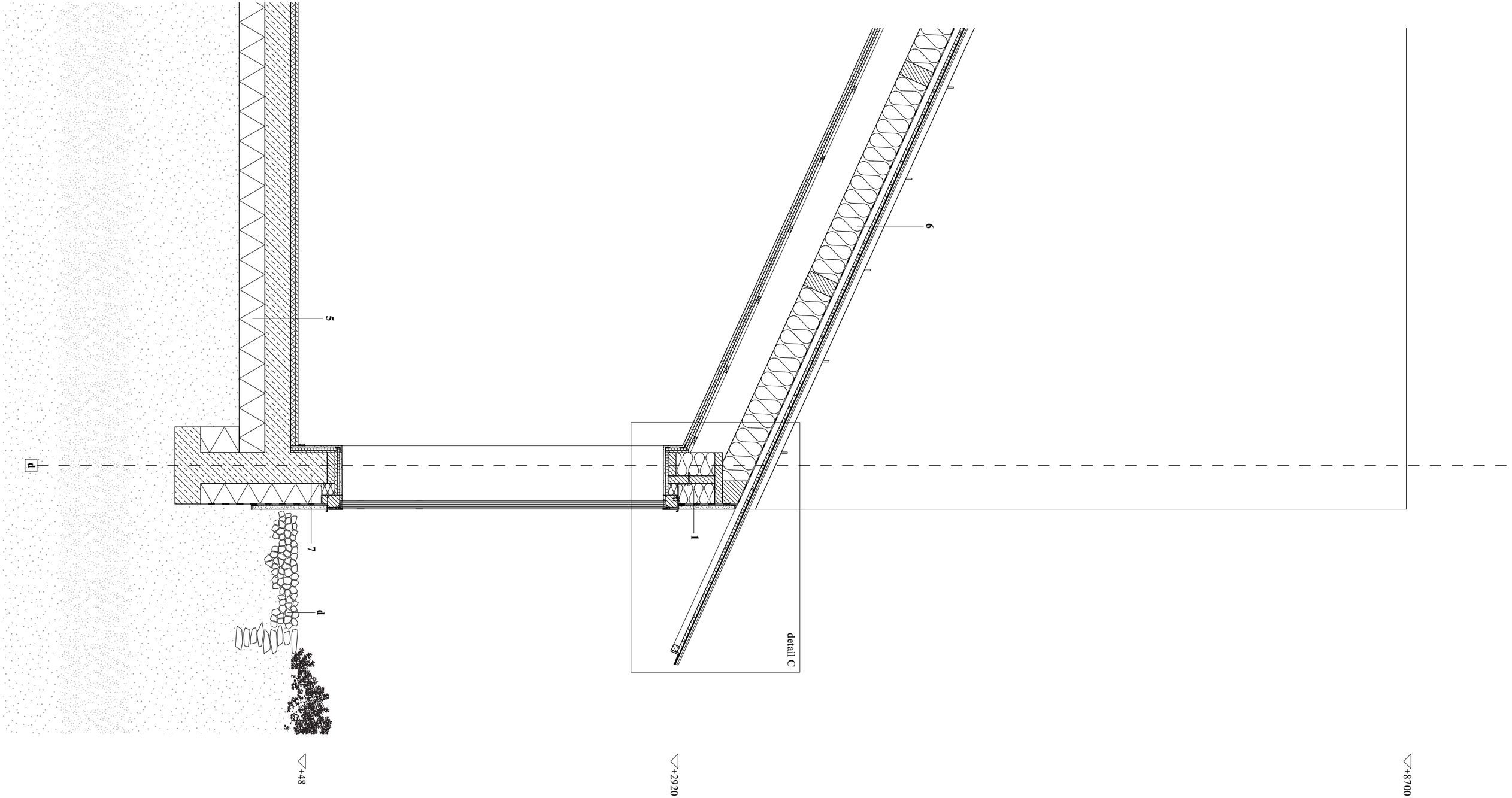
5) Concrete floor slab
outside
- Closed cell insulation in compressed sand bedding_200mm
- Cast in place concrete_200mm
- Acoustic insulation, to level wooden floor with tiled floors_36mm
- Wooden floor boards_12mm
inside

6) Zinc standing seam roof_24.5° slope
outside
- Zinc panelling_0.8mm
- Wood sheating_22*100mm
- Timber battens_48*48mm
- Water resistant, vapour open foil
- Laminated timber rafters_200*500mm
  - Timber outriggers_60*240mm_c-c 1800mm
  - Woodfiber insulation infill
- Ceiling battens_22*48mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

7) Concrete foundation pedestal
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Fibre cement board_10mm
- Water-resistant, vapour open foil
- Compressive strength woodfibre insulation_160mm
- Cast in place concrete pedestal_240mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

d) Compacted gravel for drainage along foundation

448 400 2500 154



Detail C_1 to 10

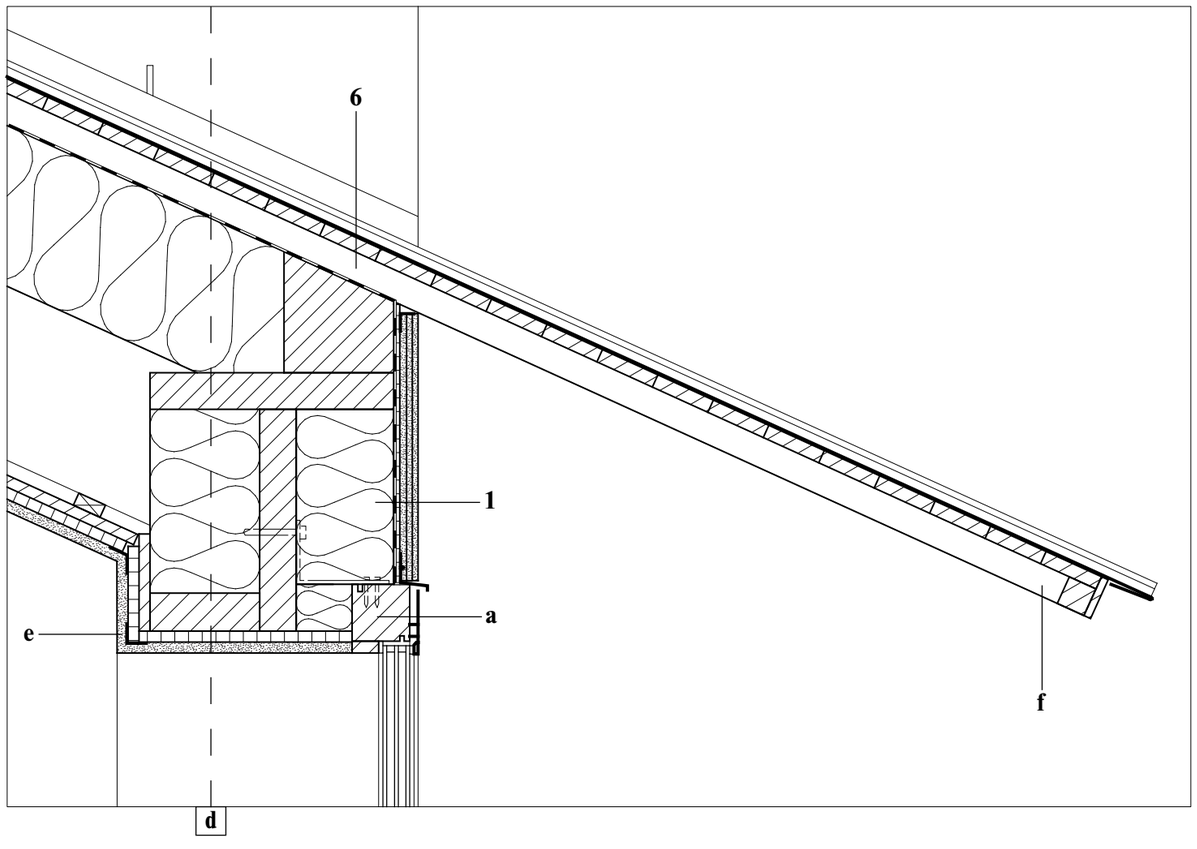
1) Wood construction facade
outside
- Lime plaster with recycled roof tile pebbles_30mm
- Fibre cement board_10mm
- Water-resistant, vapour open foil
- Compressive strength woodfibre insulation_160mm
- Timber frame wall_240mm
  -Wooden columns_120*240mm_c-c 1800mm
  - Timber studs 60*240mm_c-c 600mm
  - Woodfibre insulation infill
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

6) Zinc standing seam roof_24.5° slope
outside
- Zinc panelling_0.8mm
- Wood sheating_22*100mm
- Timber battens_48*48mm
- Water resistant, vapour open foil
- Laminated timber rafters_200*500mm
  - Timber outriggers_60*240mm_c-c 1800mm
  - Woodfiber insulation infill
- Ceiling battens_22*48mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

a) Window frame
Wooden window frame with aluminium exterior frame cover. Positioned flush with the exterior finishing.

e) Metal corner profile for plaster edges

f) Timber battens (48*48mm) support the overhang and allow for the ventilation of the roof. The edge strengthened with a horizontal batten and finished with a wooden strip. The zinc roof ends with a simple folded seam.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Technical fragment_1 to 20

Scaled to 70%

3) Outside brick wall

- Lime plaster with recycled roof tile pebbles_30mm
- Constructive wall of reused ‘modulemaat’ bricks (190*90*50mm) crossbond_190mm
- Sandblasted finish

4) Concrete roof patio
outside
- Gravel
- EPDM roof foil
- Sloped casted concrete_<200mm
- Precast wide slab floor_80mm
- Compressive strength woodfibre insulation_240mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

5) Concrete floor slab
outside
- Closed cell insulation in compressed sand bedding_200mm
- Cast in place concrete_200mm
- Acoustic insulation, to level wooden floor with tiled floors_36mm
- Wooden floor boards_12mm
inside

6) Zinc standing seam roof_24.5° slope
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- Wood sheating_22*100mm
- Timber battens_48*48mm
- Water resistant, vapour open foil
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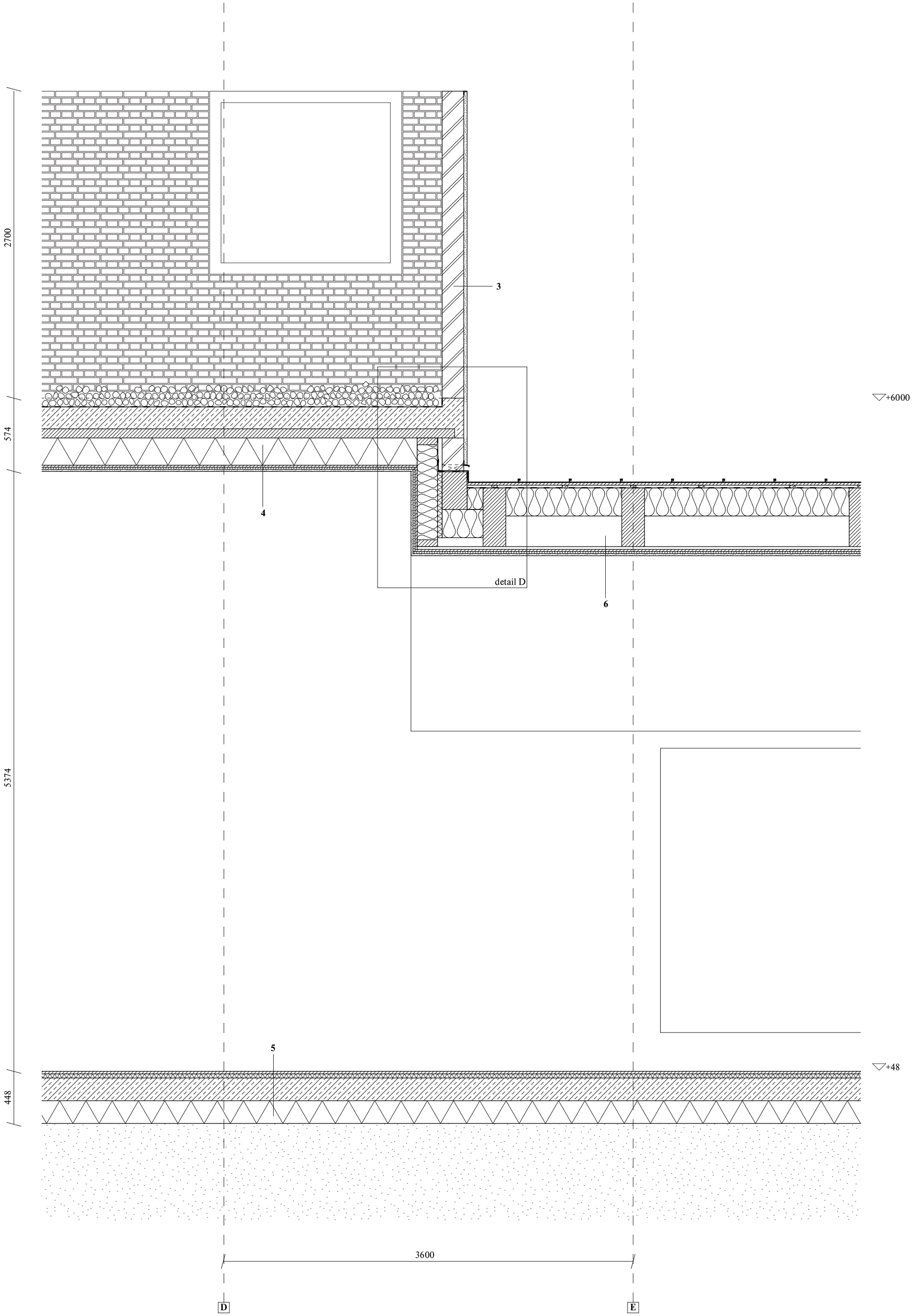
  - Woodfiber insulation infill
- Ceiling battens_22*48mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside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Detail D_1 to 10

3) Outside brick wall

- Lime plaster with recycled roof tile pebbles_30mm
- Constructive wall of reused ‘modulemaat’ bricks (190*90*50mm) crossbond_190mm
- Sandblasted finish

4) Concrete roof patio
outside
- Gravel
- EPDM roof foil
- Sloped casted concrete_<200mm
- Precast wide slab floor_80mm
- Compressive strength woodfibre insulation_240mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

5) Concrete floor slab
outside
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- Cast in place concrete_200mm
- Acoustic insulation, to level wooden floor with tiled floors_36mm
- Wooden floor boards_12mm
inside

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- Timber battens_48*48mm
- Water resistant, vapour open foil
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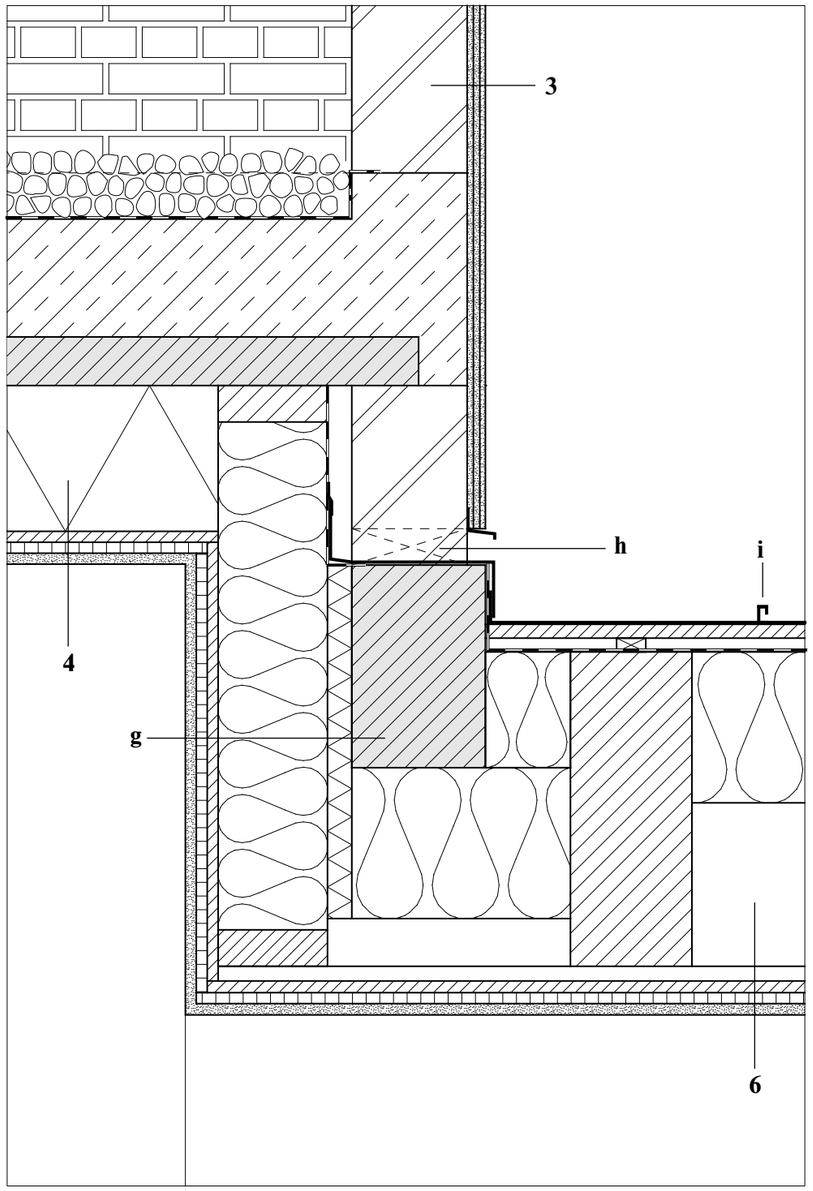
  - Timber outriggers_60*240mm_c-c 1800mm
  - Woodfiber insulation infill
- Ceiling battens_22*48mm
- OSB panel_18mm
- Gypsum panel_18mm
- Loamplaster_18mm
inside

g) Precast concrete beam_220*300mm, enables the opening in the brick structure.

h) Water proofing joint different construction types
- Cavity closure strip
- Open head joint for condensation drainage
- Drip edge former to end the plaster finishing
- Flashing covers the concrete beam and is closed in by brick infill

i) Standing seam in zinc roof panelling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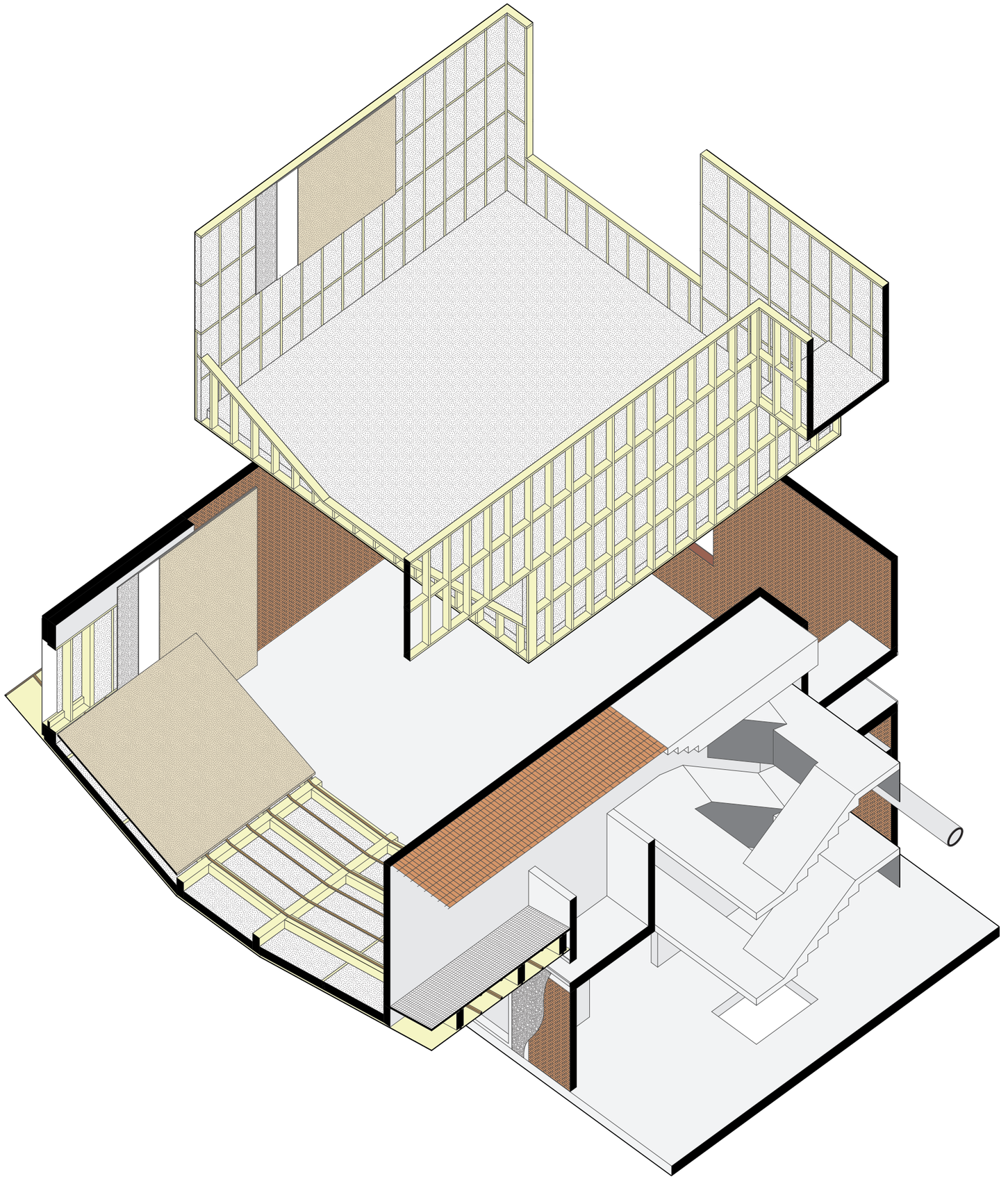
Building elements_exploded wormseye axonometric projection



MODEL PHOTOGRAPHY

permanent temporality