

Equality Center

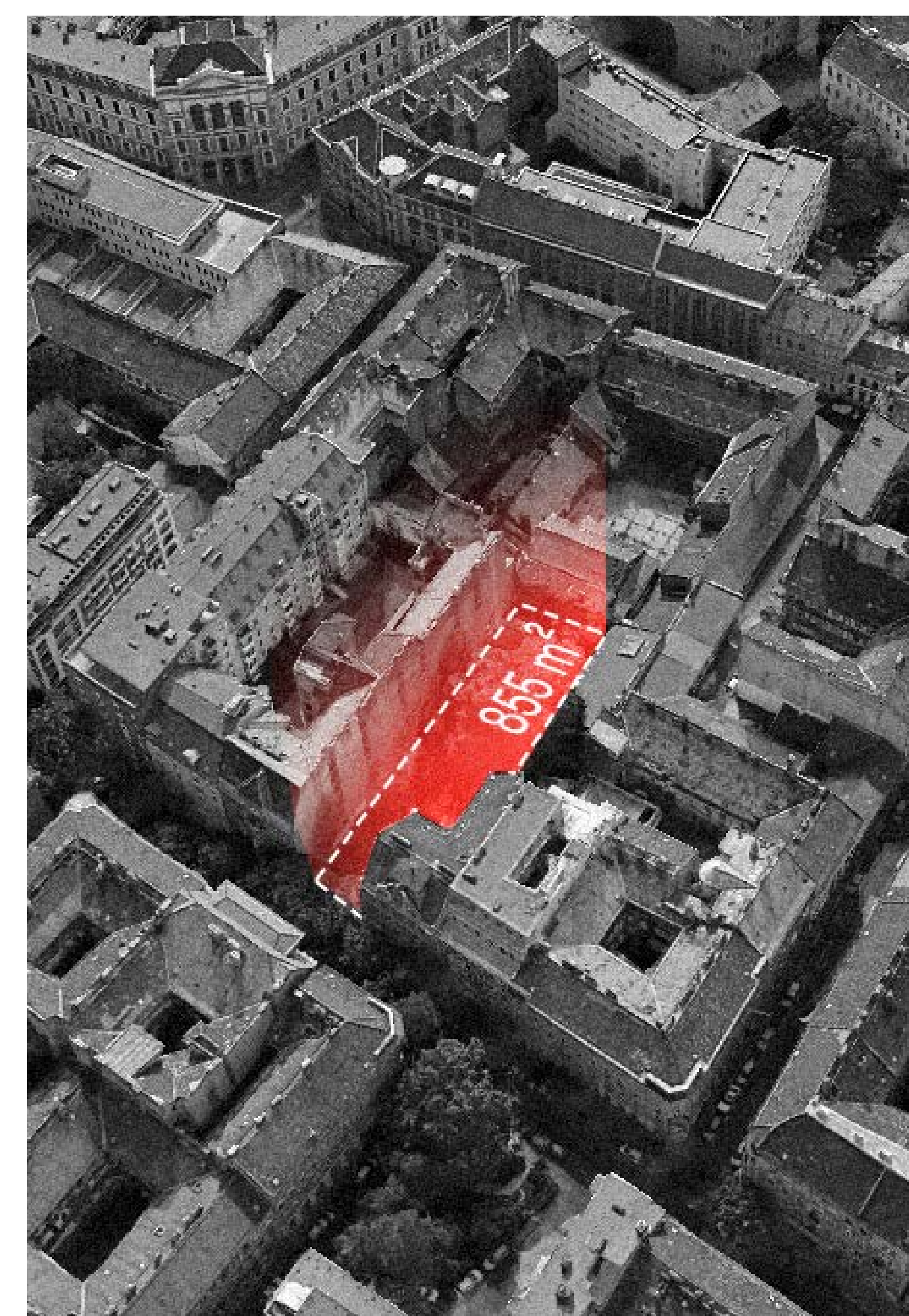
VIII. district, József street 39.

1 2 3 4 5 6 7

Candaş Demir

BME // Faculty of Architecture

Diploma // 2024



Thesis

Architecture can facilitate the creation of a **comfortable, welcoming and uniting space** for its users. This theme seeks a solution to the need for **marginalized groups affirming spaces**. These spaces are necessary for a minority community that are vastly underrepresented. The outcome will be a facility that will provide education, health and community centered spaces for all those within the marginalized communities and allies. Spaces are intended to be used widely in the community as the demand for gathering and community spaces increase. The outcome will result in a **more welcoming and inclusive city for the embrace of diversity and dignity**.

Supporting Premises

Encouraging everyone to occupy a pleasant, well-designed space will bring communities together.

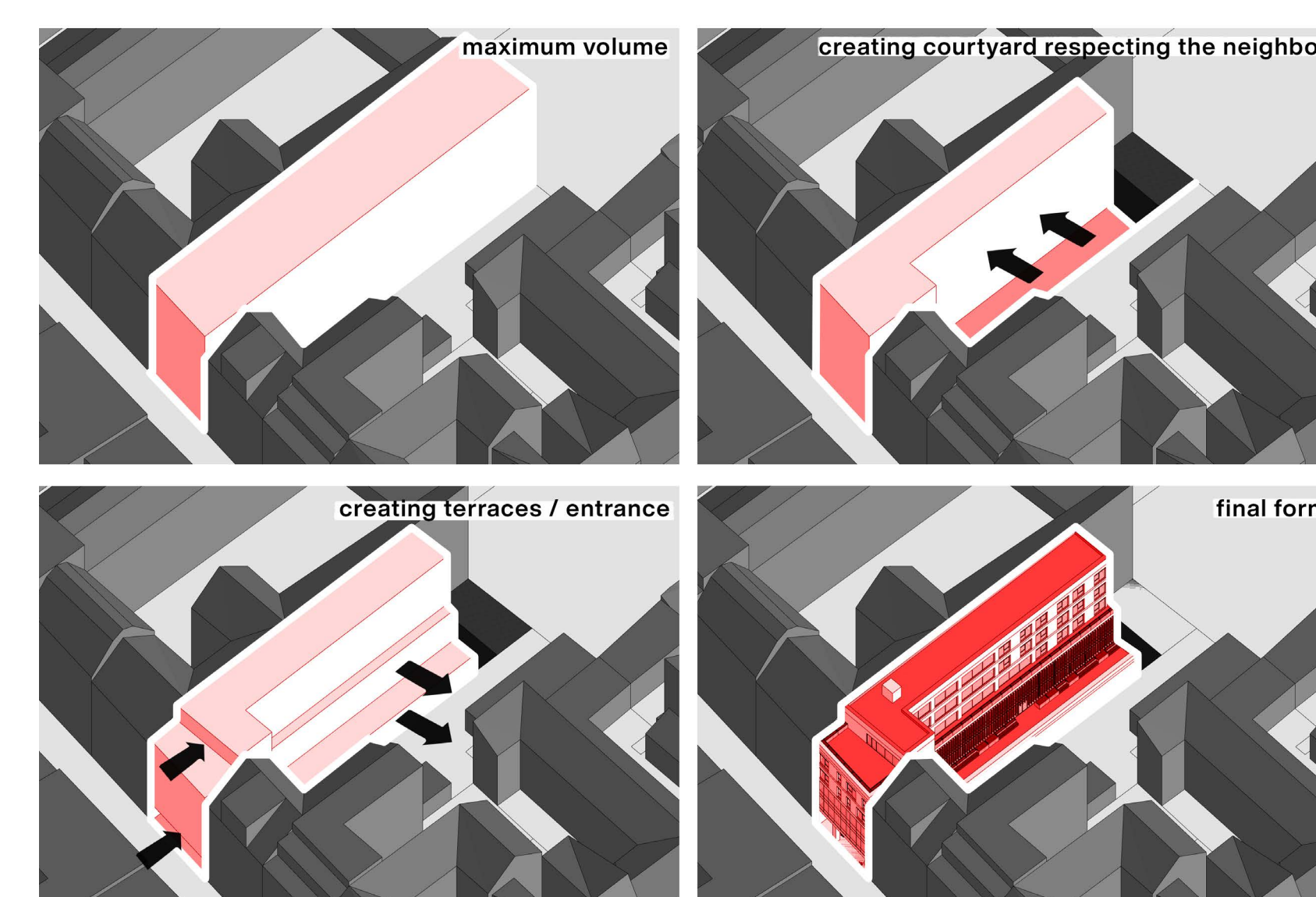
Urban neighborhoods and marginalized communities will gain from a wider variety of meeting places.

Justification

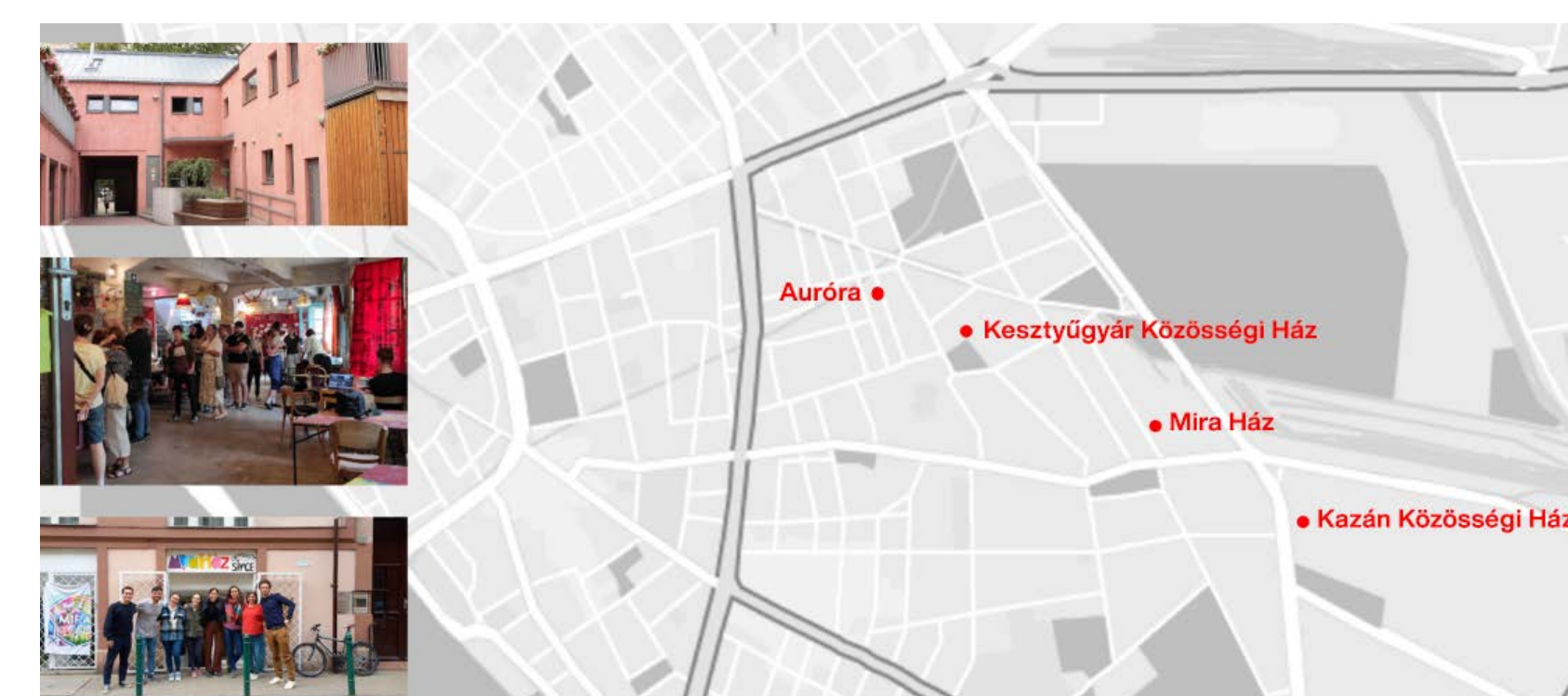
A community has a need to come together. People of all kinds can be educated and brought together through educational and social outreach made possible by equality centers. In a neighborhood or community of peers, allies, and adversaries, this understanding helps blur differences and fosters a higher level of understanding and interaction.

This kind of community outreach will make it possible for a facility to welcome all people. It will act as a meeting place for neighborhood associations, nonprofit organizations, and different kinds of events. These kinds of community spaces are necessary to support increased cultural diversity and to enable people and the environments in which they live to develop via understanding and connection.

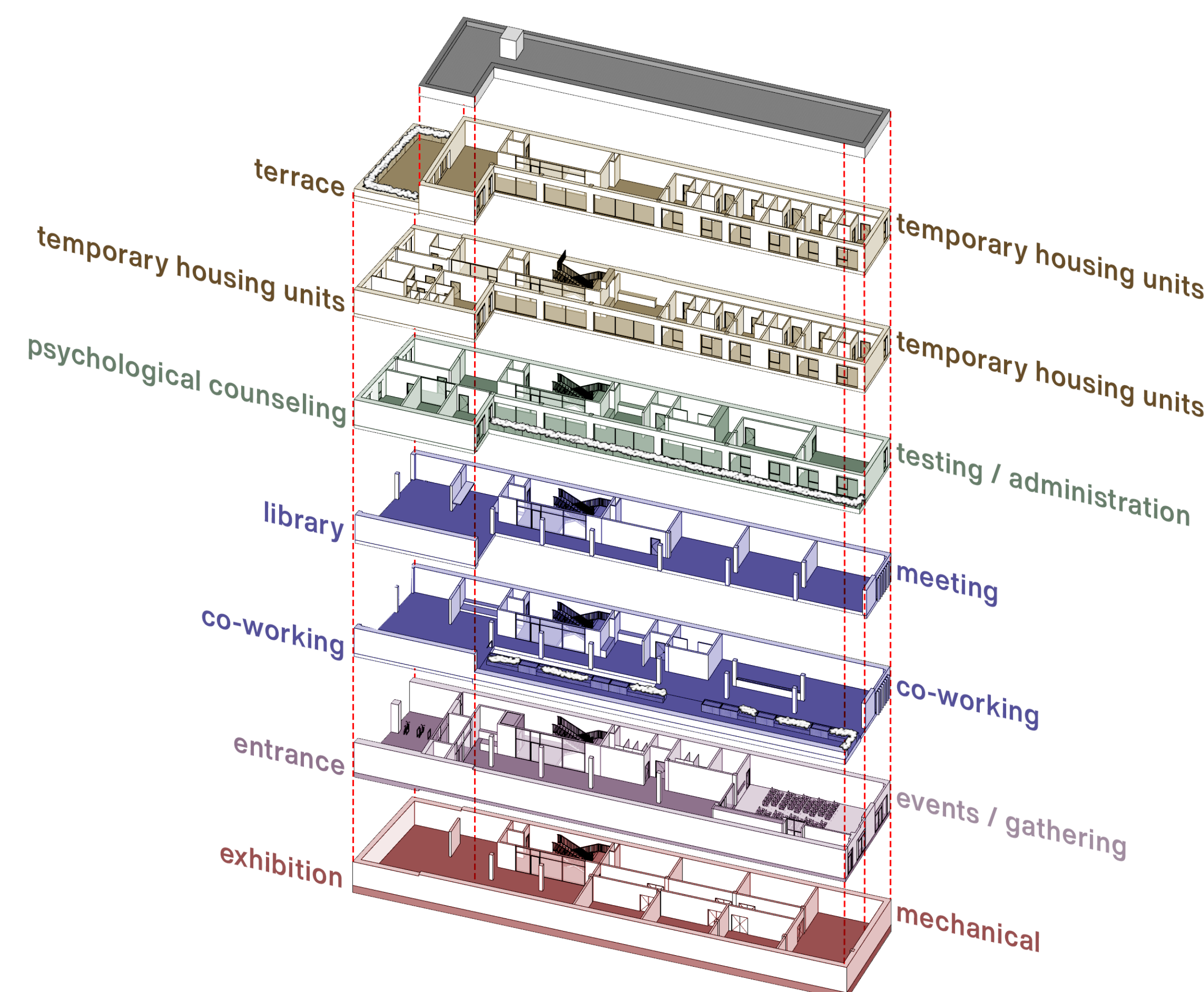
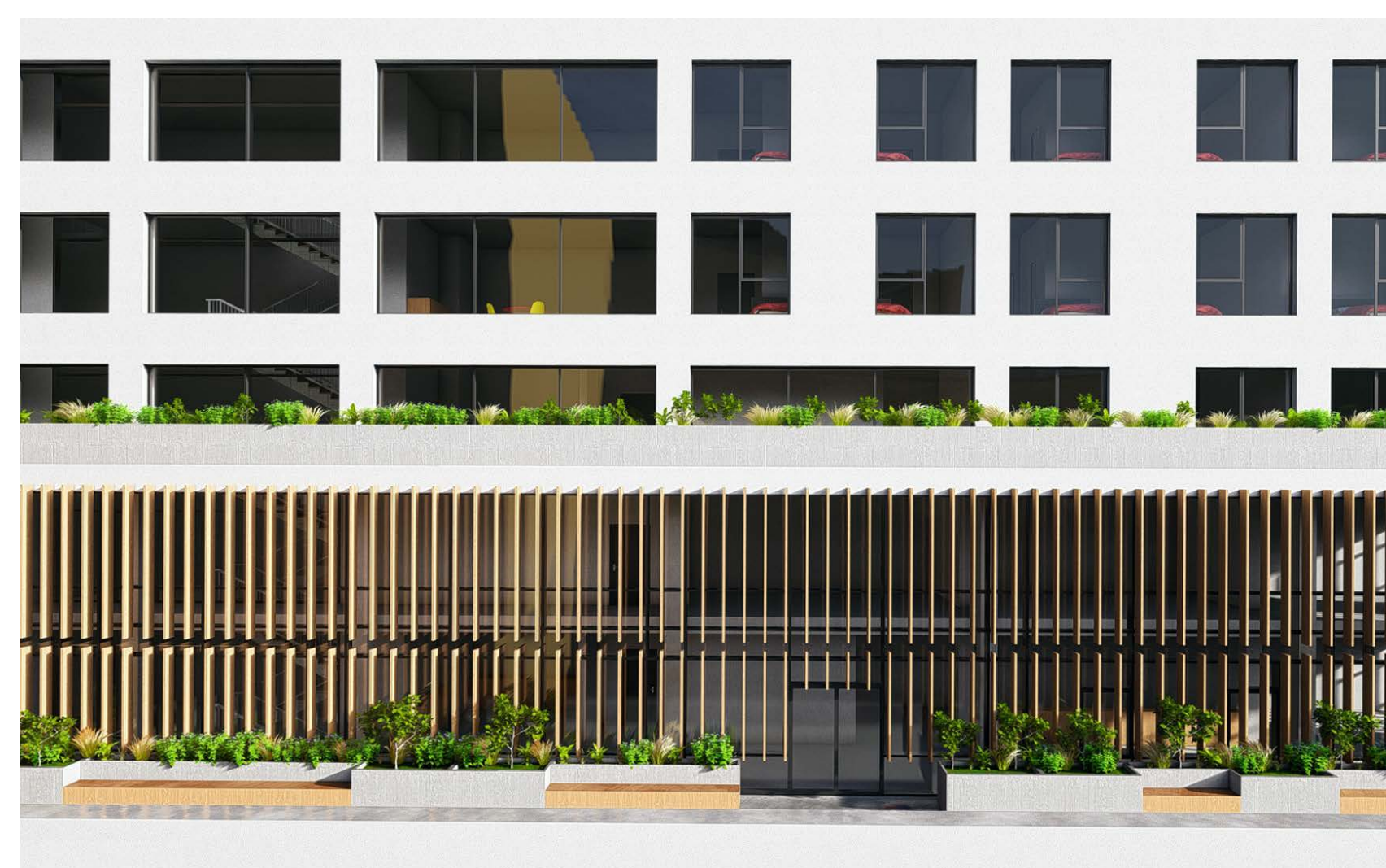
Communities want to seek out further connections with each other. Building social networks and support groups are an essential tool in ones acceptance for themselves and thus places that value in the spaces they occupy. This becomes a drive to build a more open and visible community lead to new public spaces.



Form evolution



Existing meeting points in VIII. district



Program layout scheme



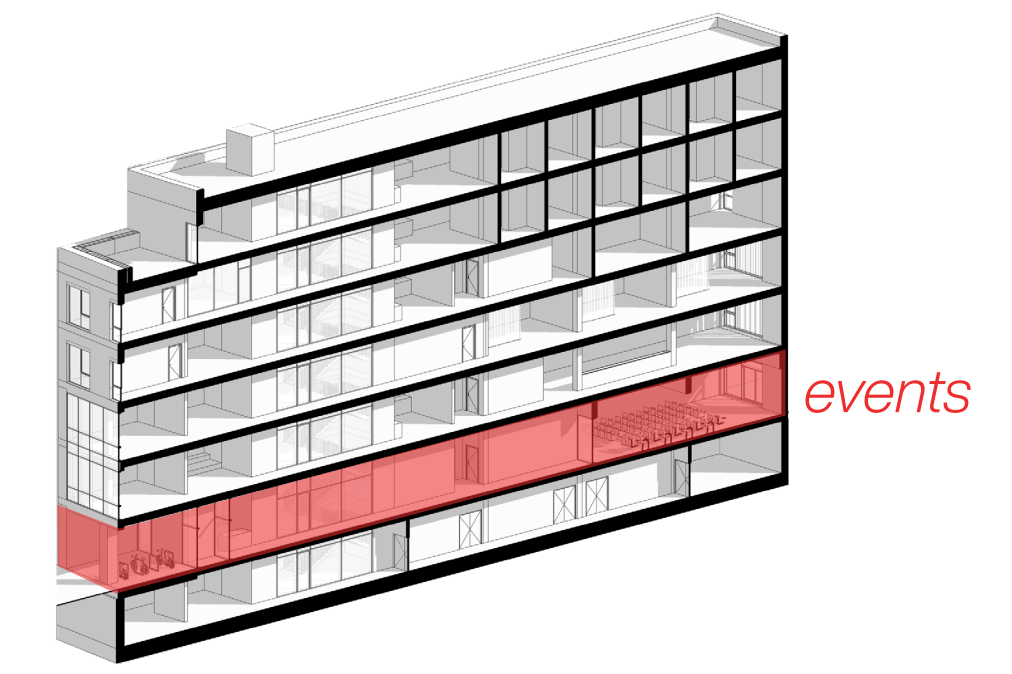
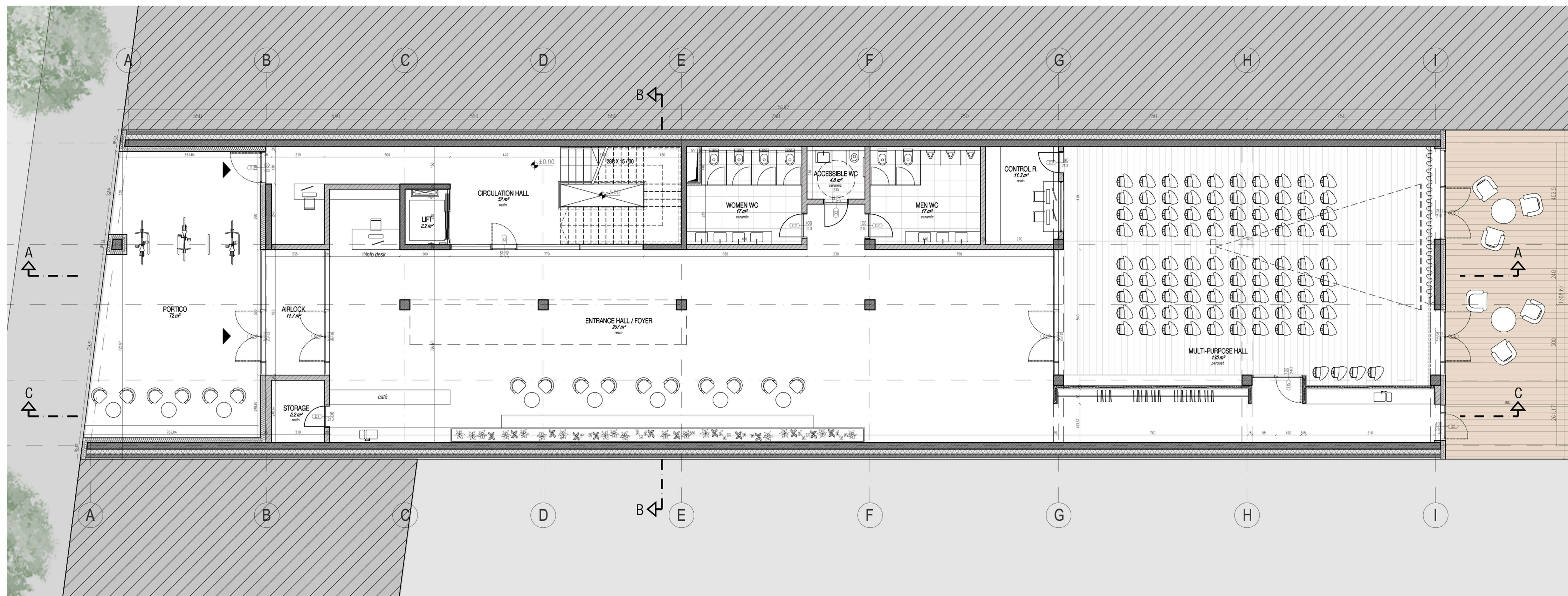
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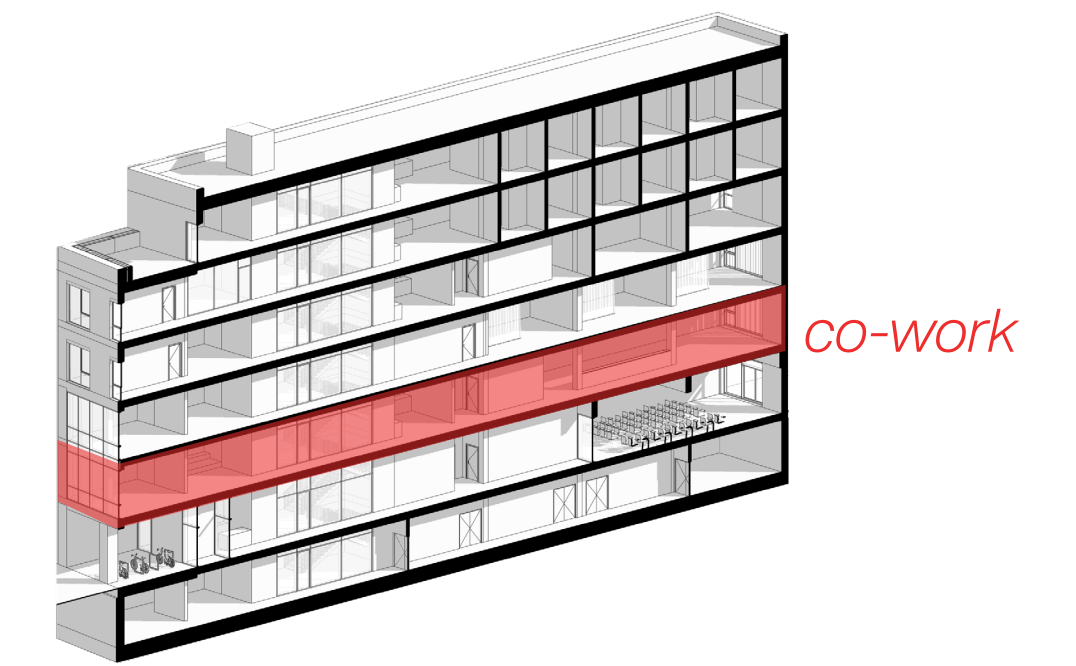
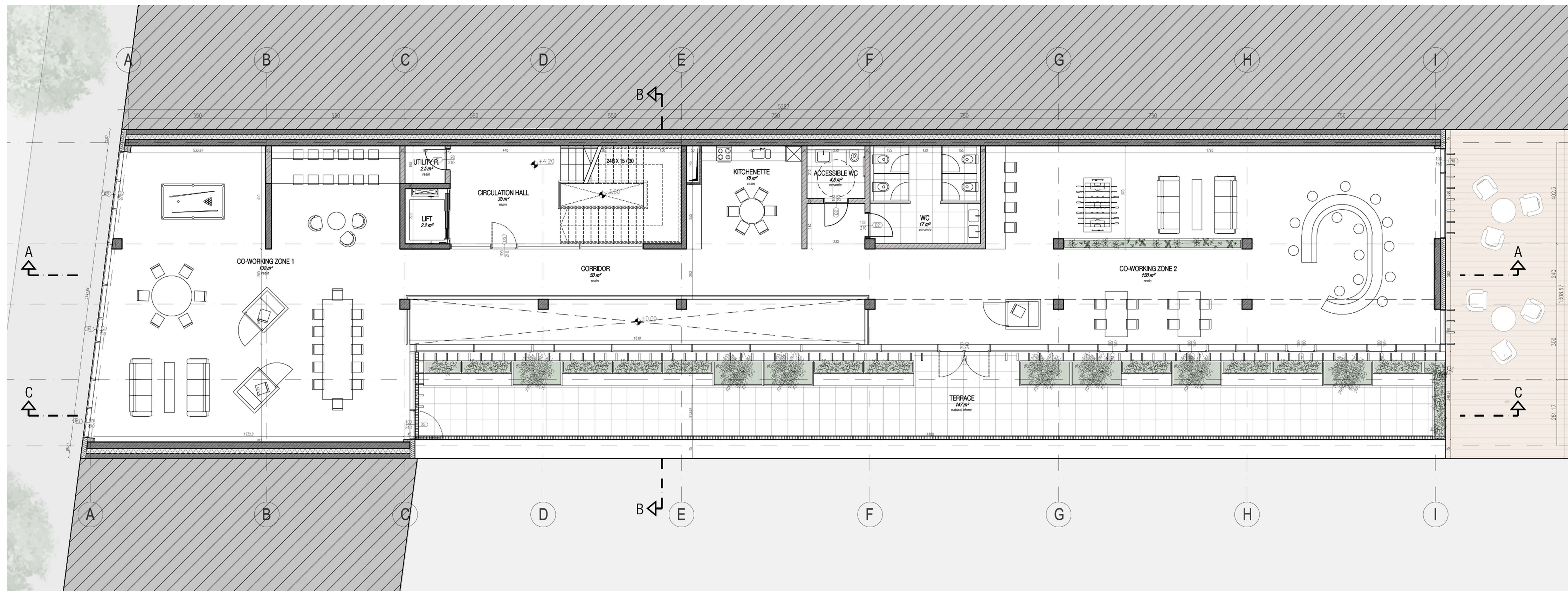
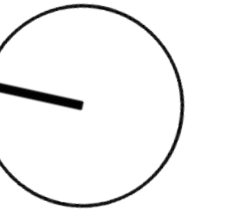
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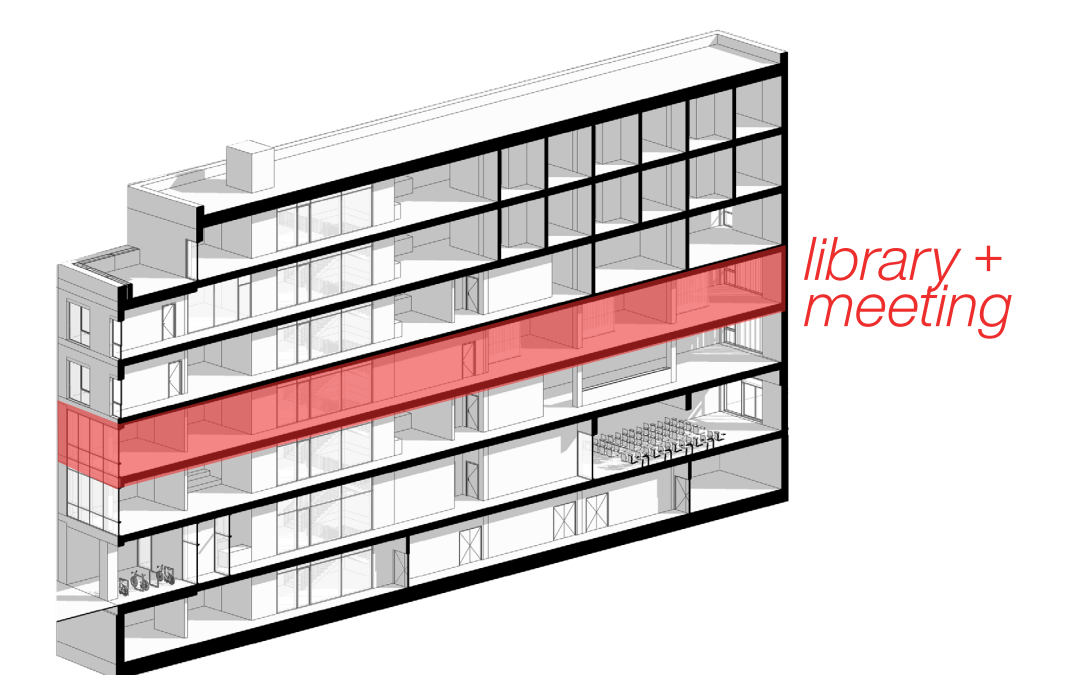
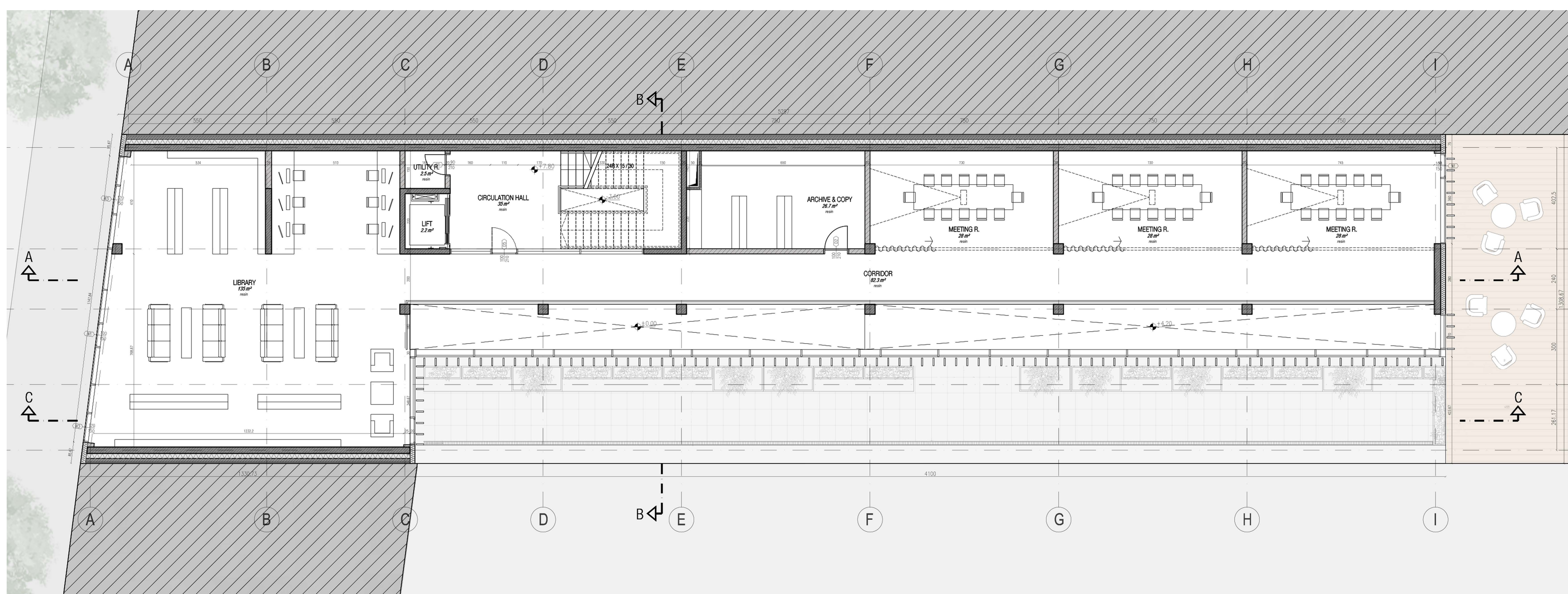
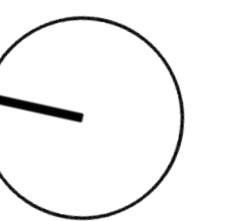
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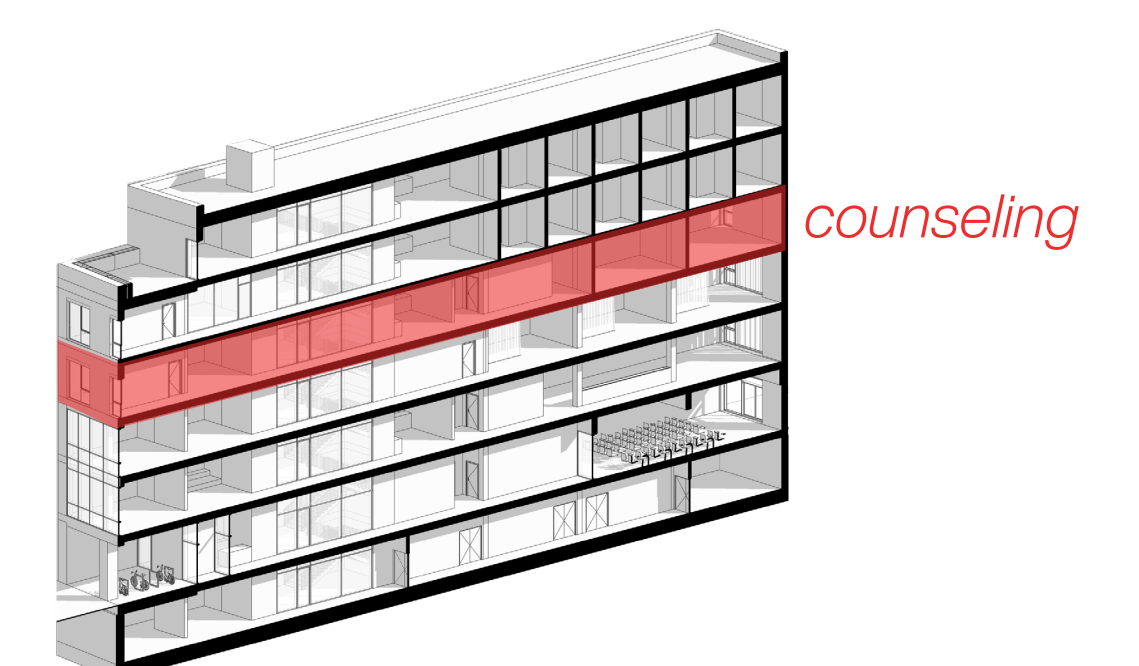
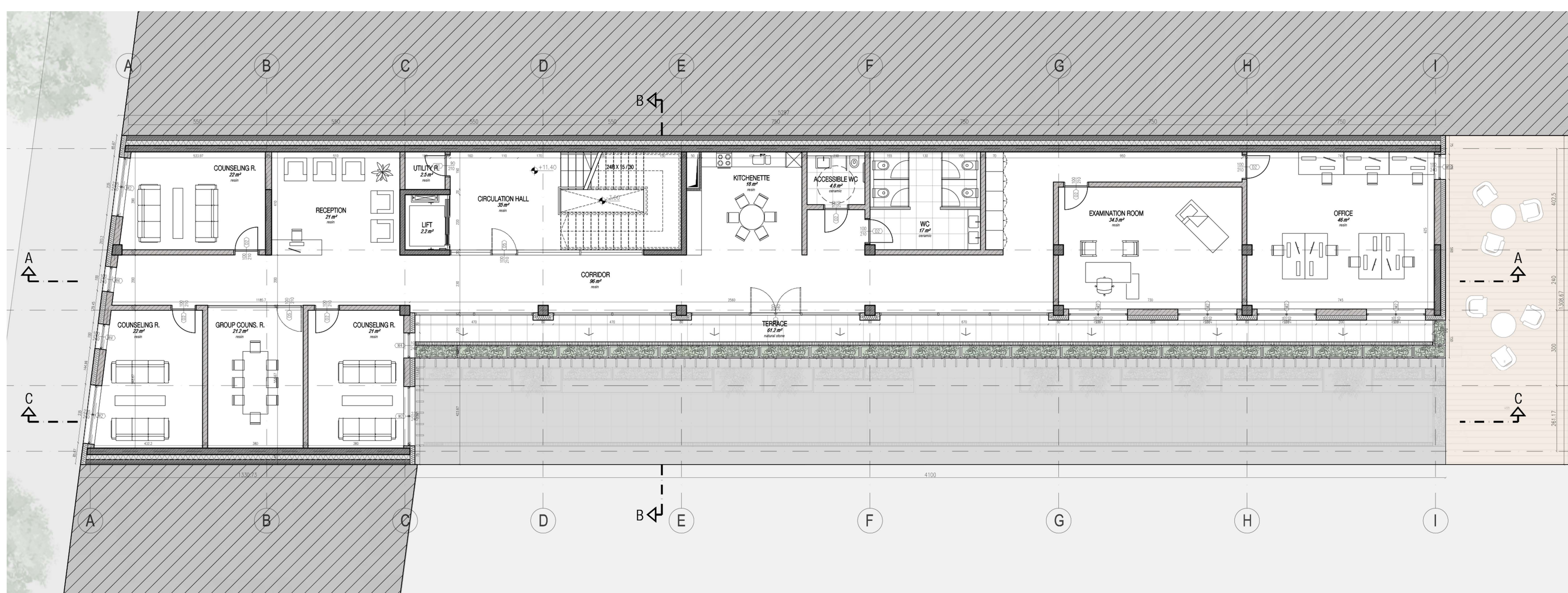
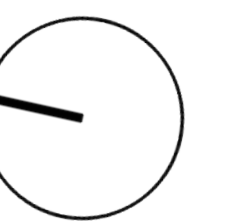
±0.00 Ground Floor Plan
S=1:100



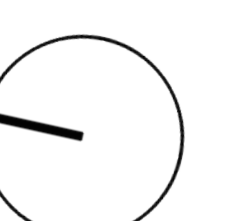
+4.20 First Floor Plan
S=1:100



+7.80 Second Floor Plan
S=1:100



+11.40 Third Floor Plan
S=1:100





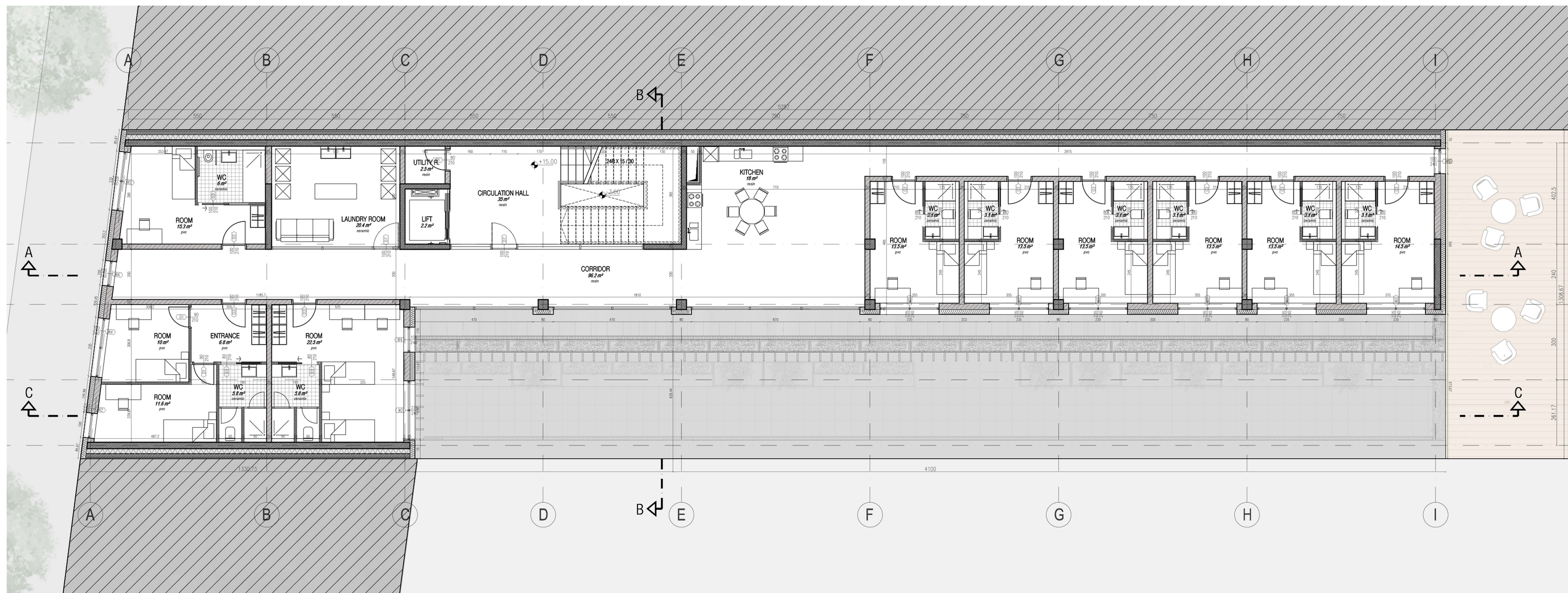
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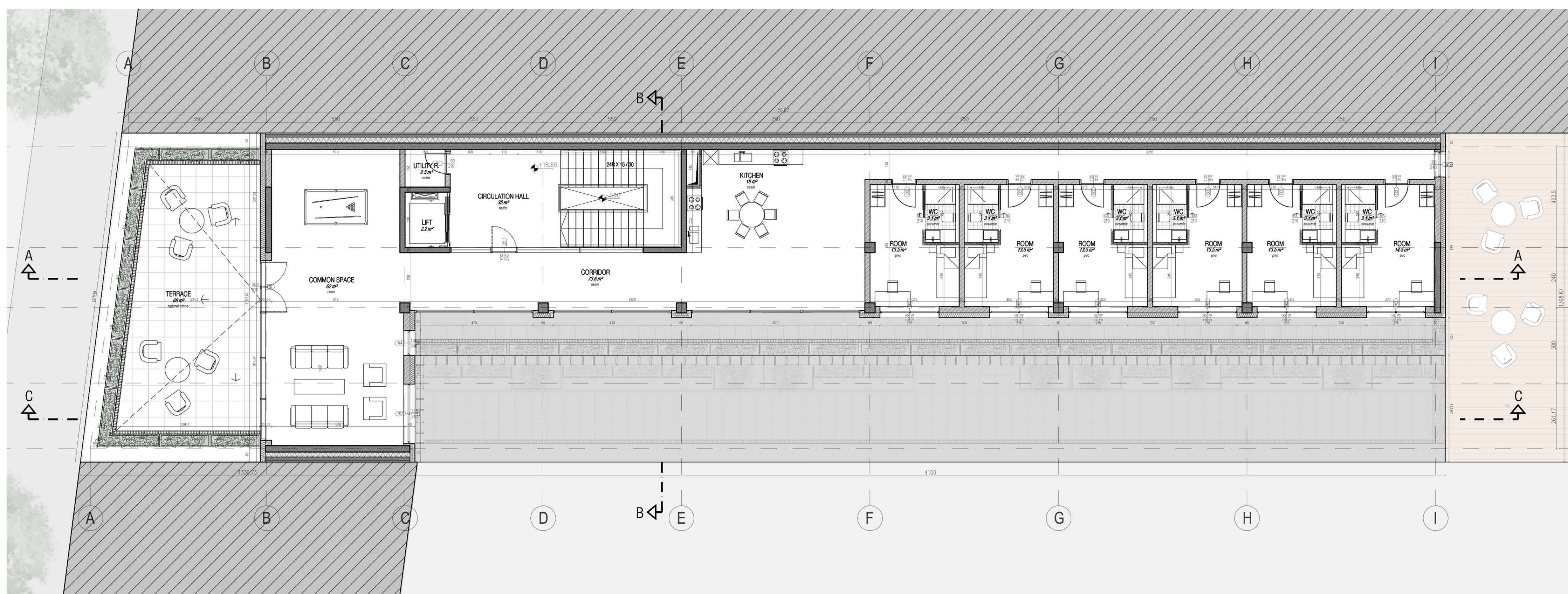
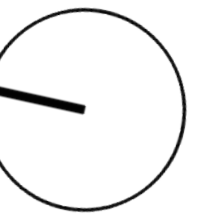
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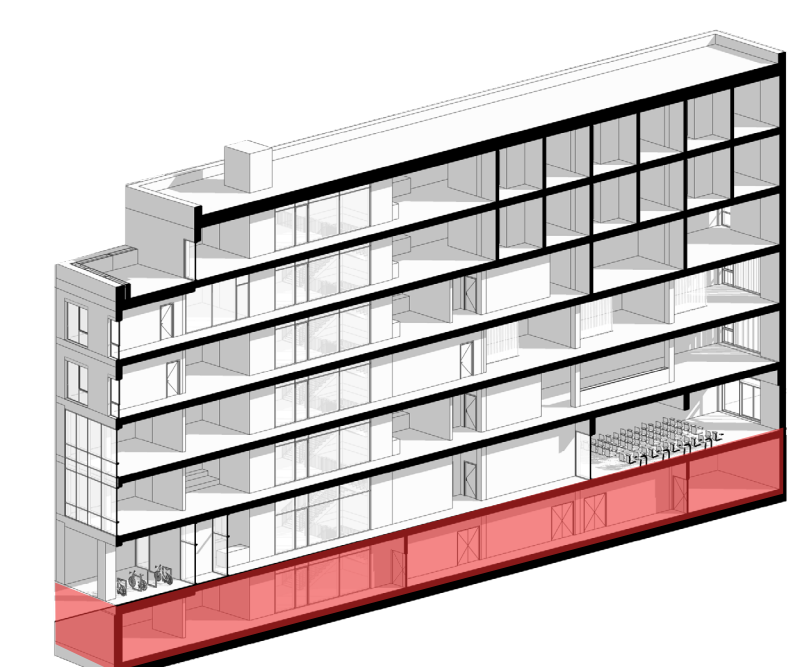
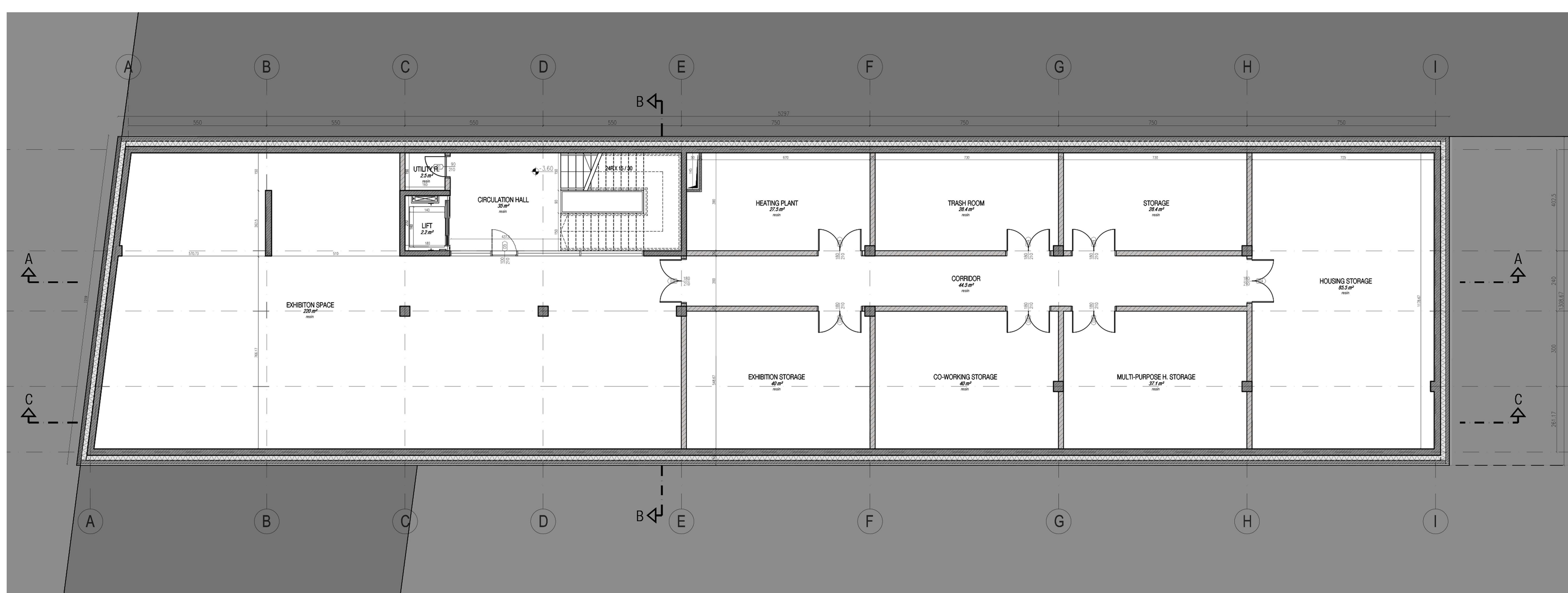
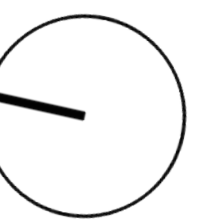
temporary housing

+15.00 Fourth Floor Plan
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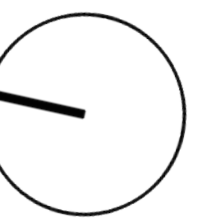
temporary housing

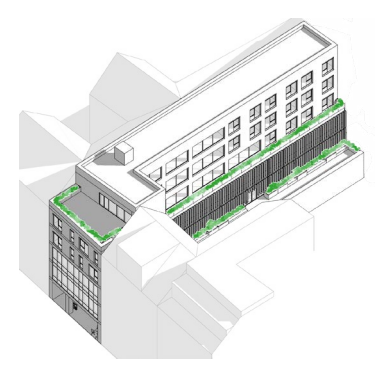
+18.60 Fifth Floor Plan
S=1:100



exhibition + storage

-3.60 Basement Plan
S=1:100





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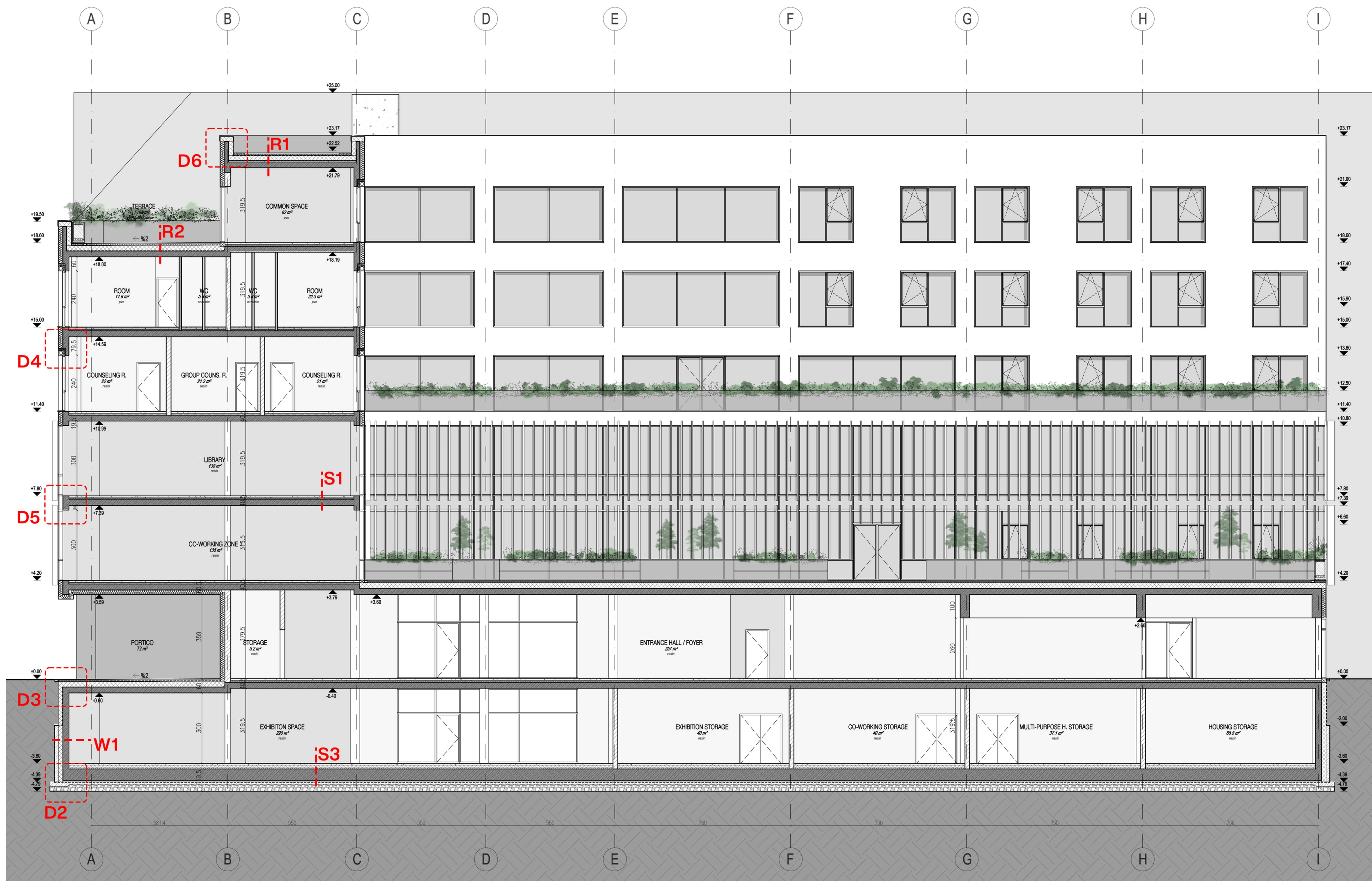
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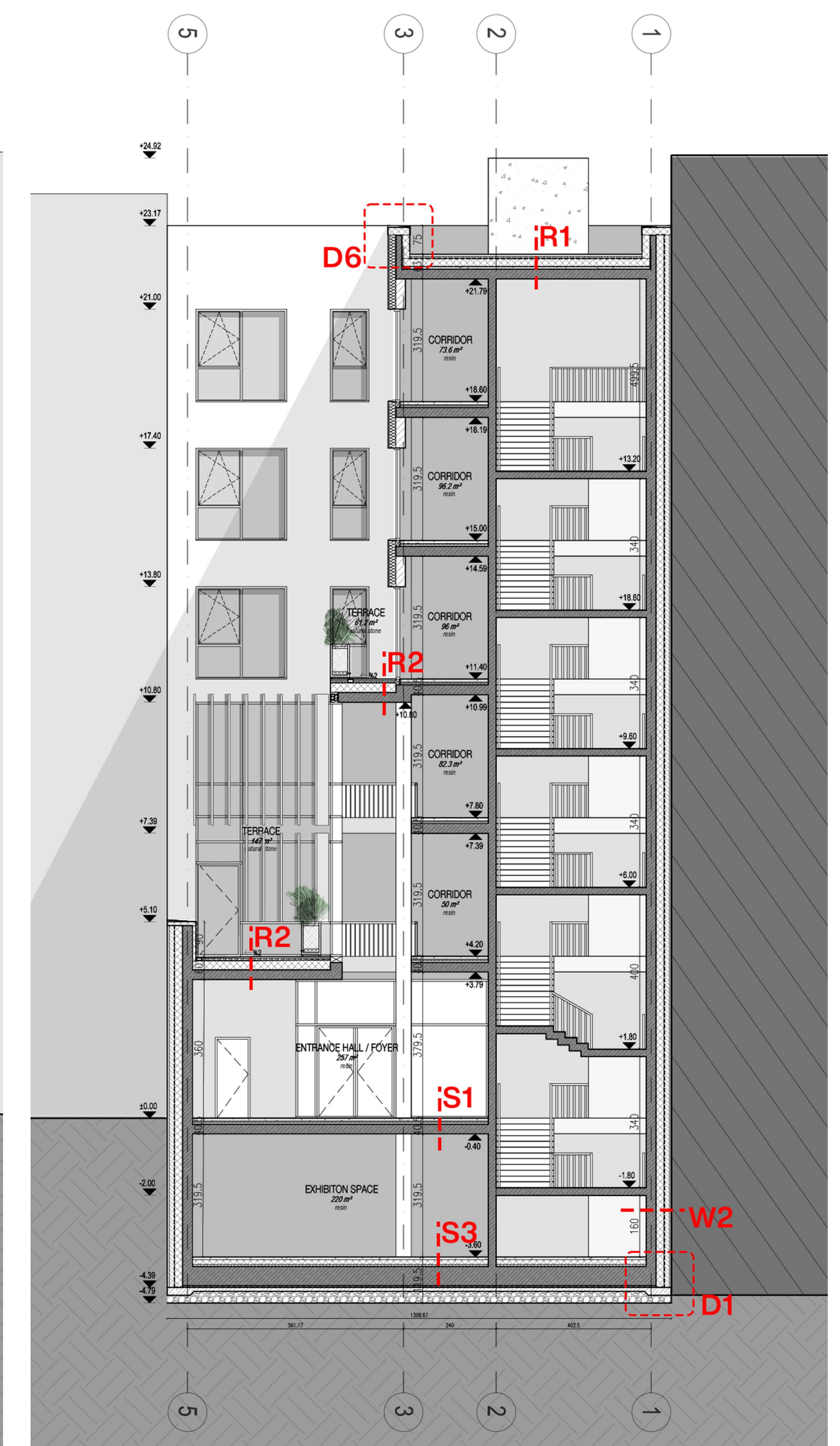
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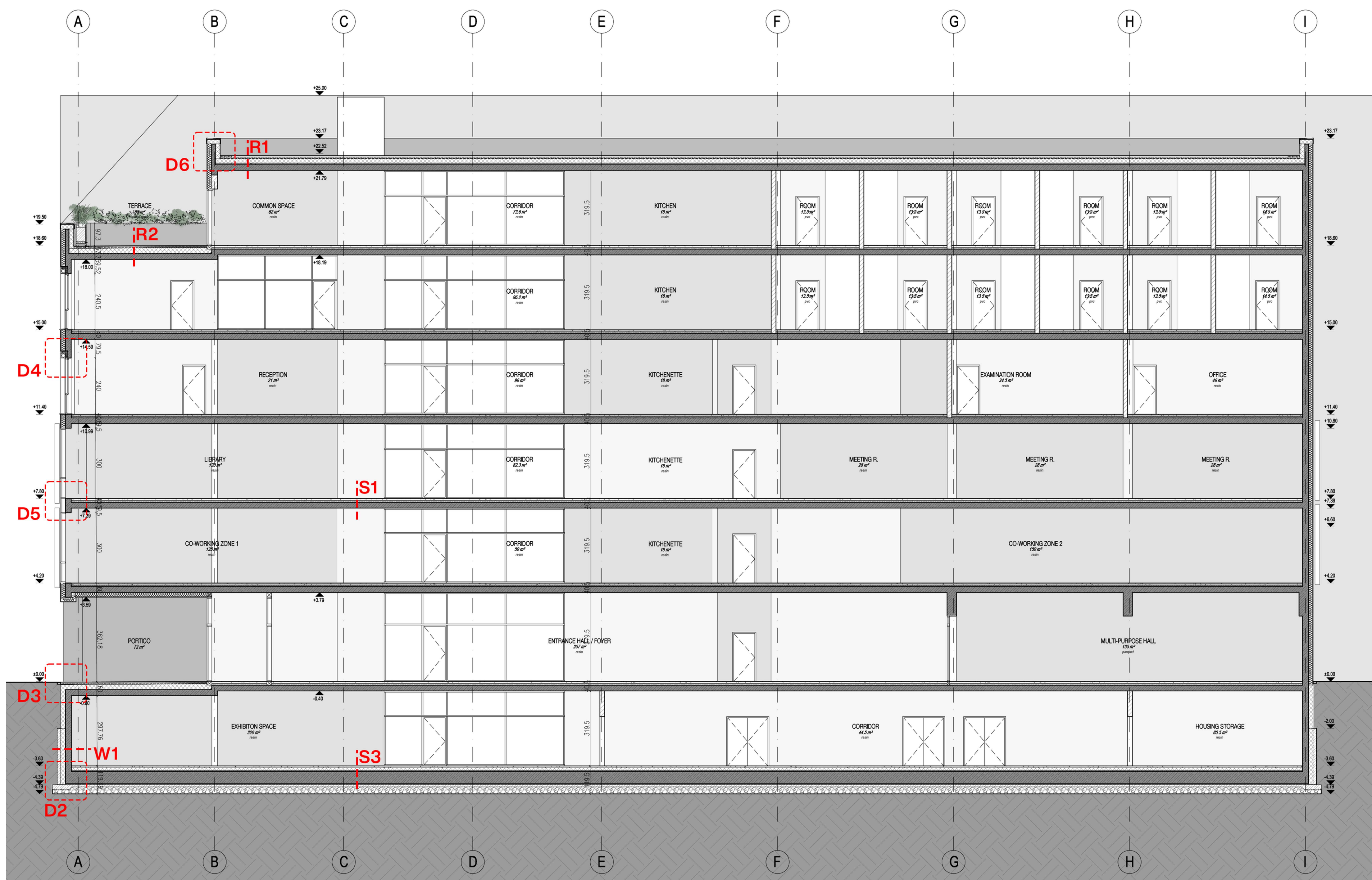
C-C Section

S=1:100



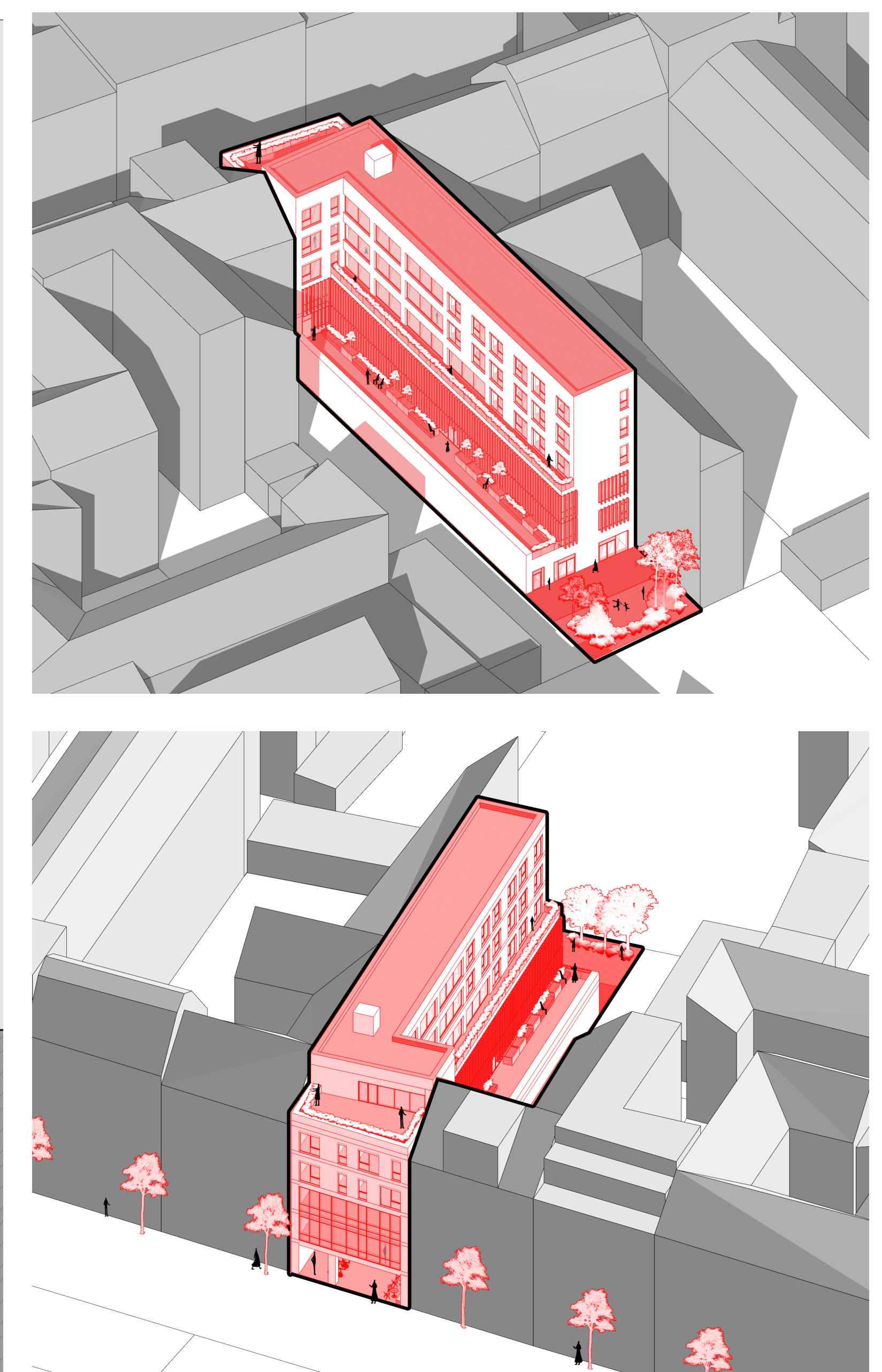
B-B Section

S=1:100

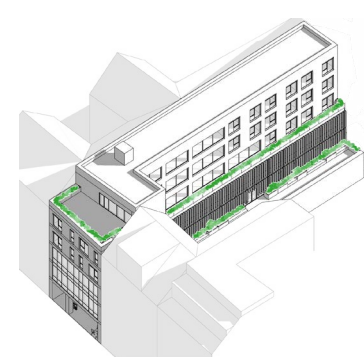


A-A Section

S=1:100



Axo drawings



Equality Center

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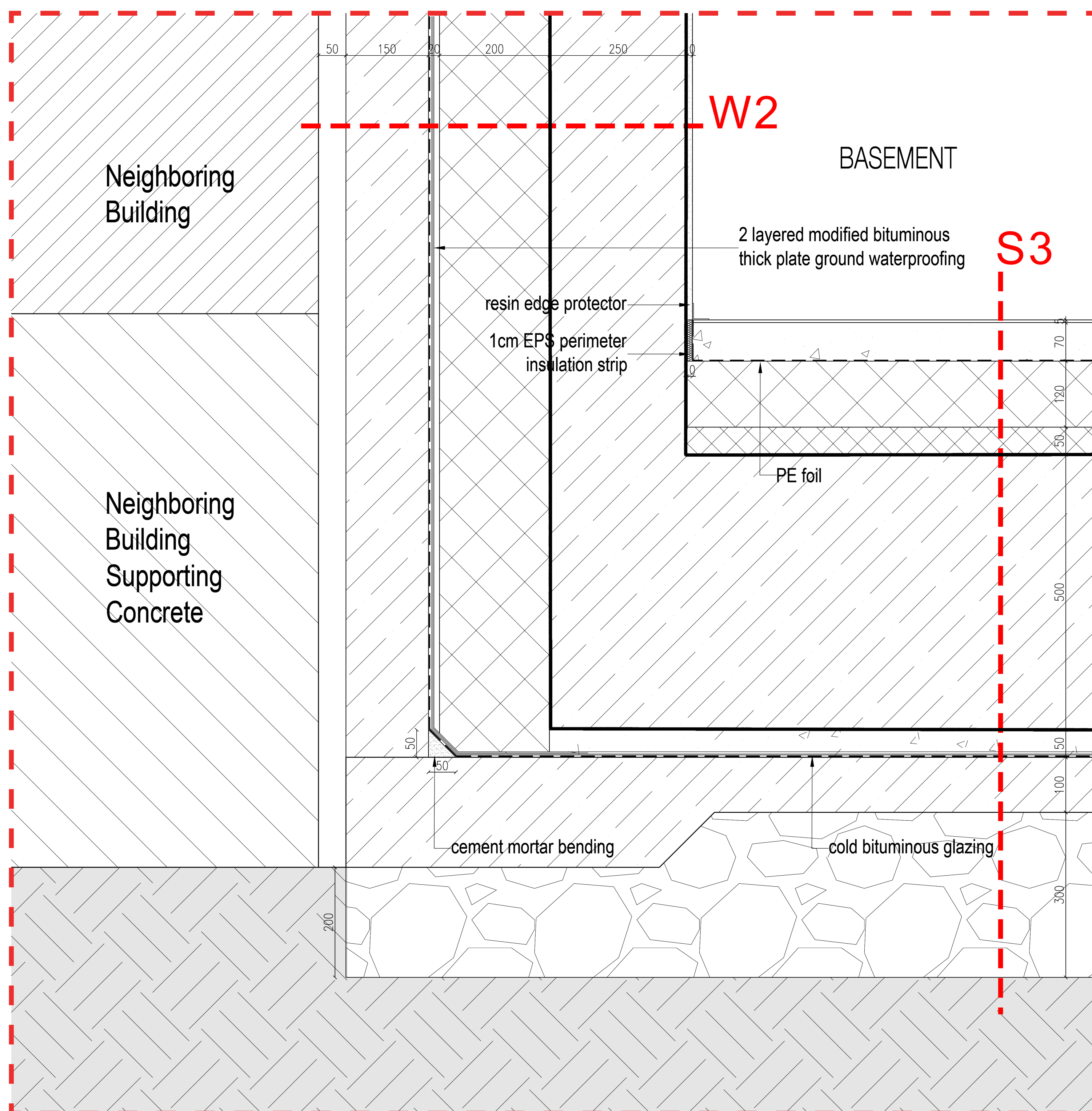


North Elevation

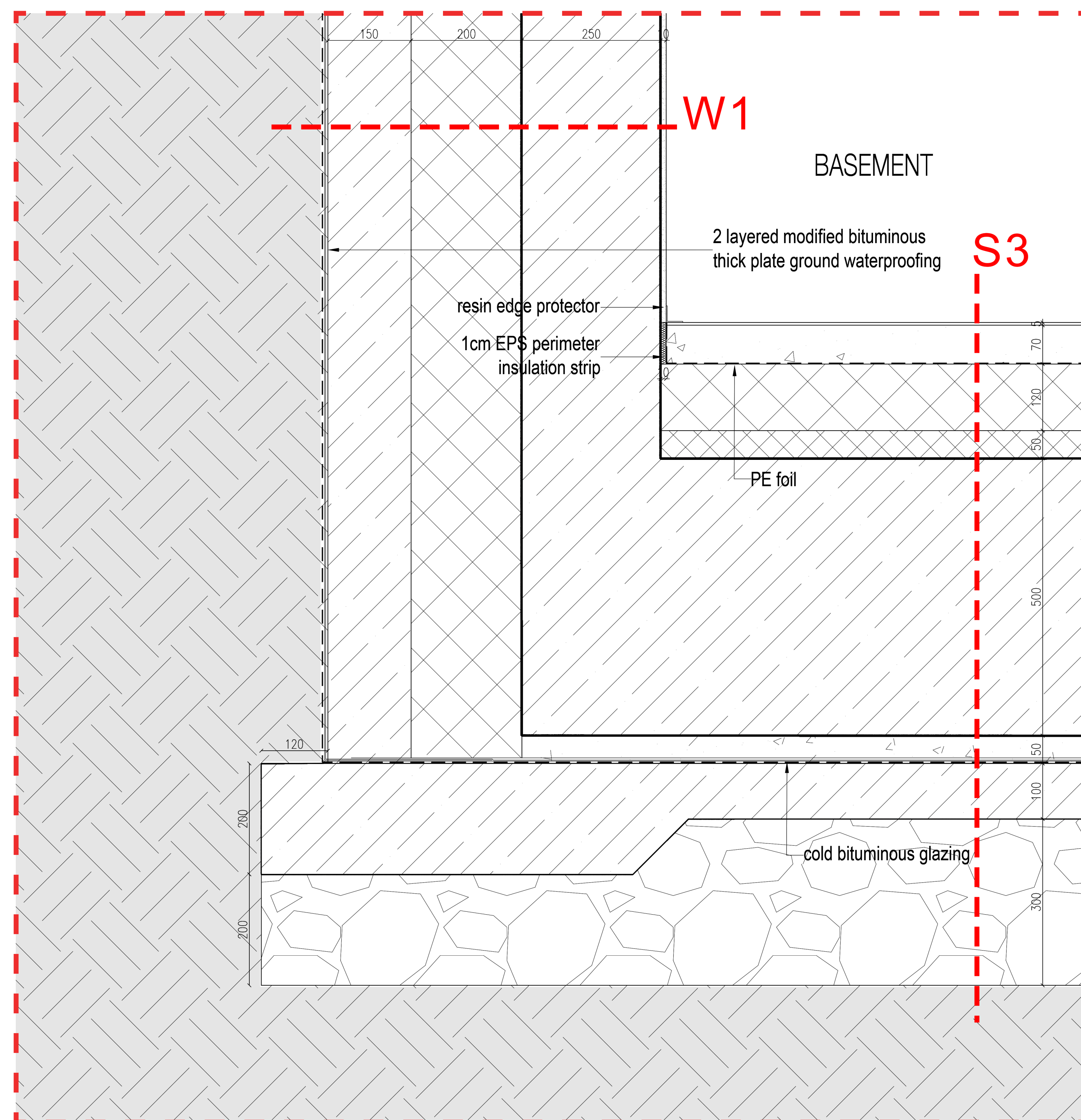


S=1:100 South Elevation

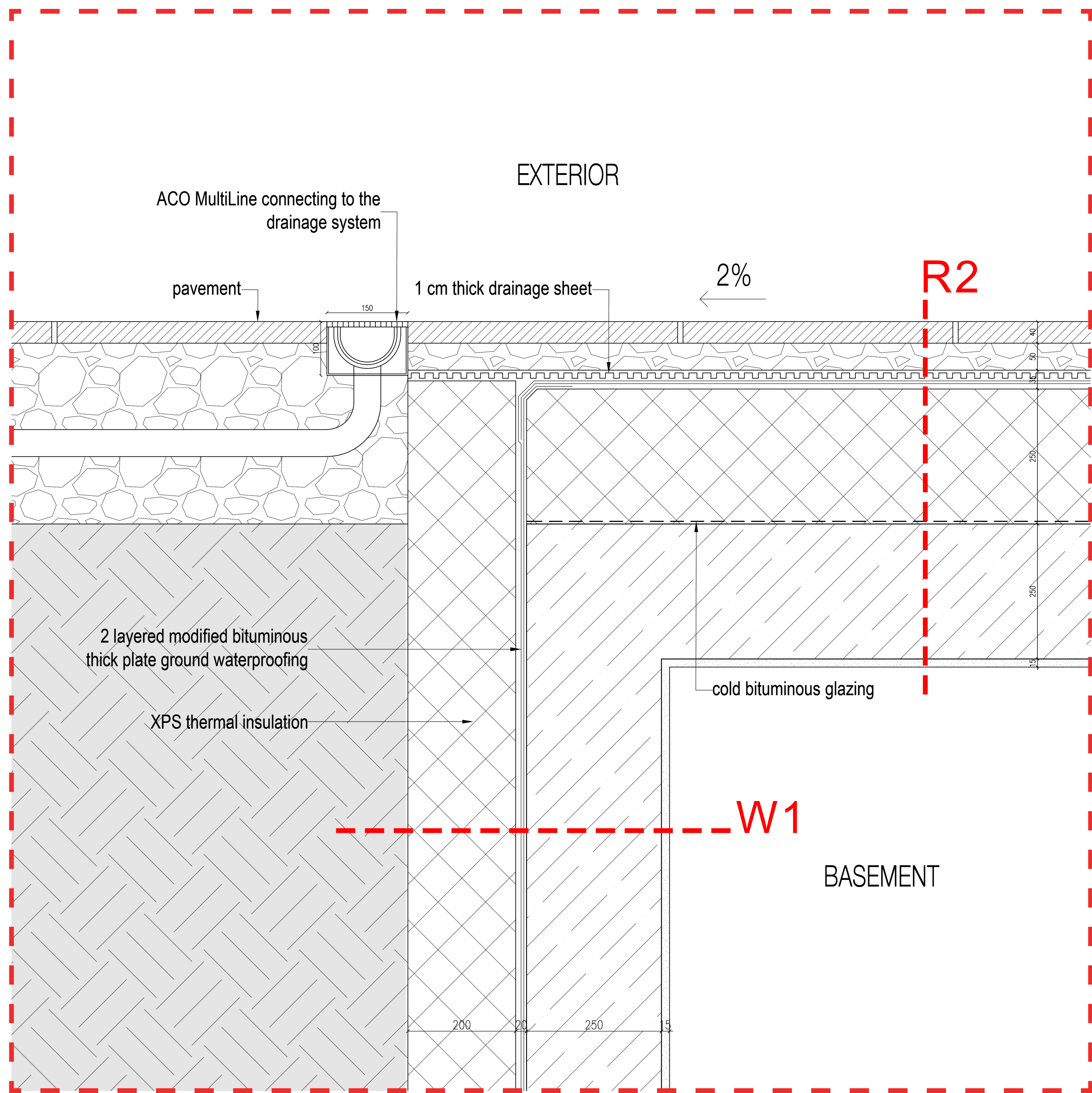
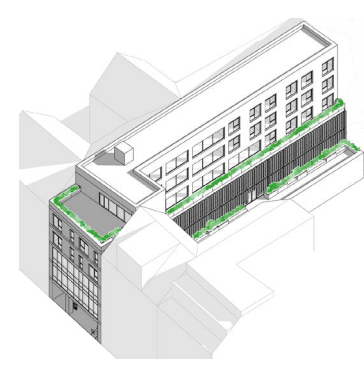
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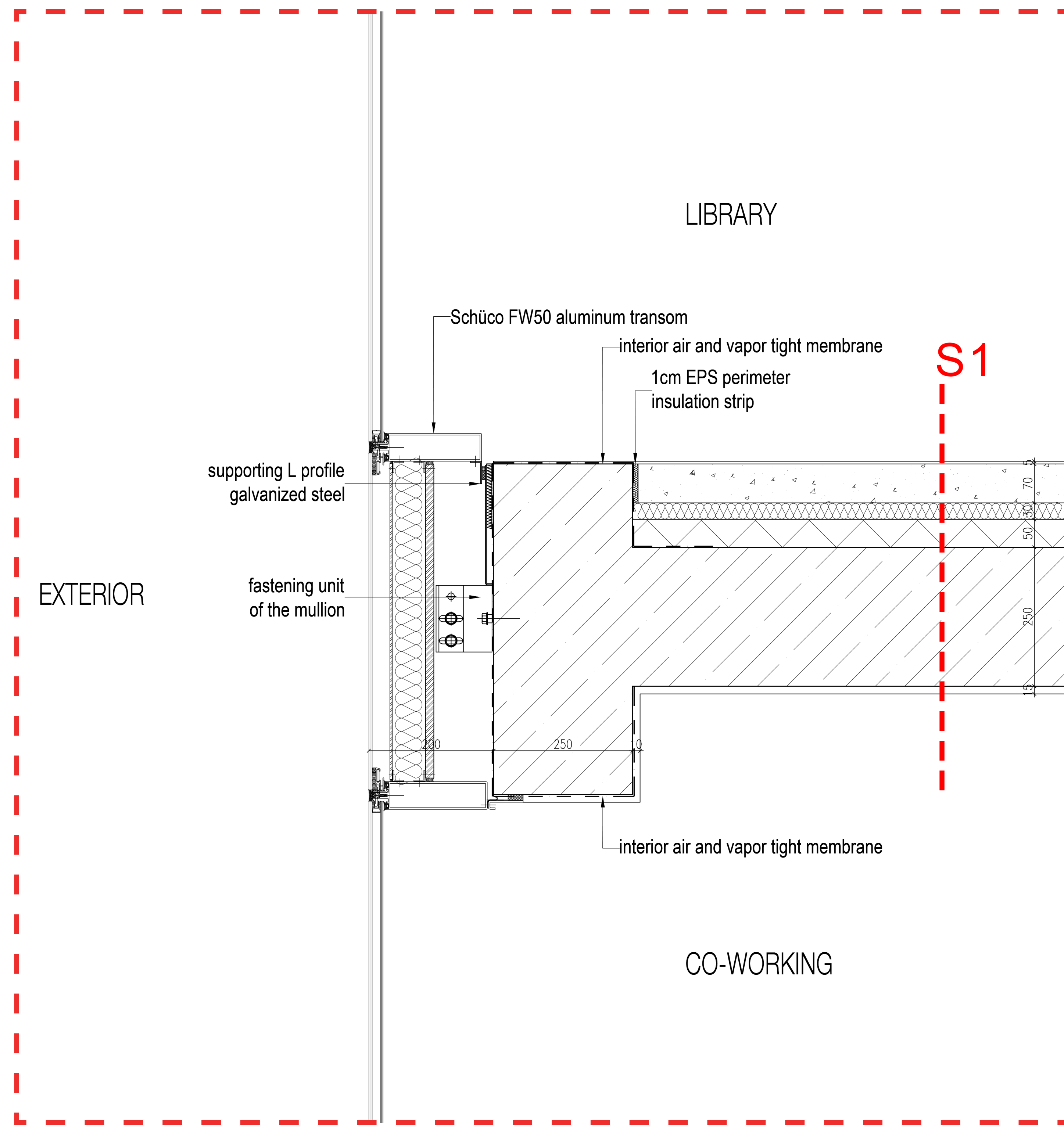
D1: Foundation, besides neighboring building



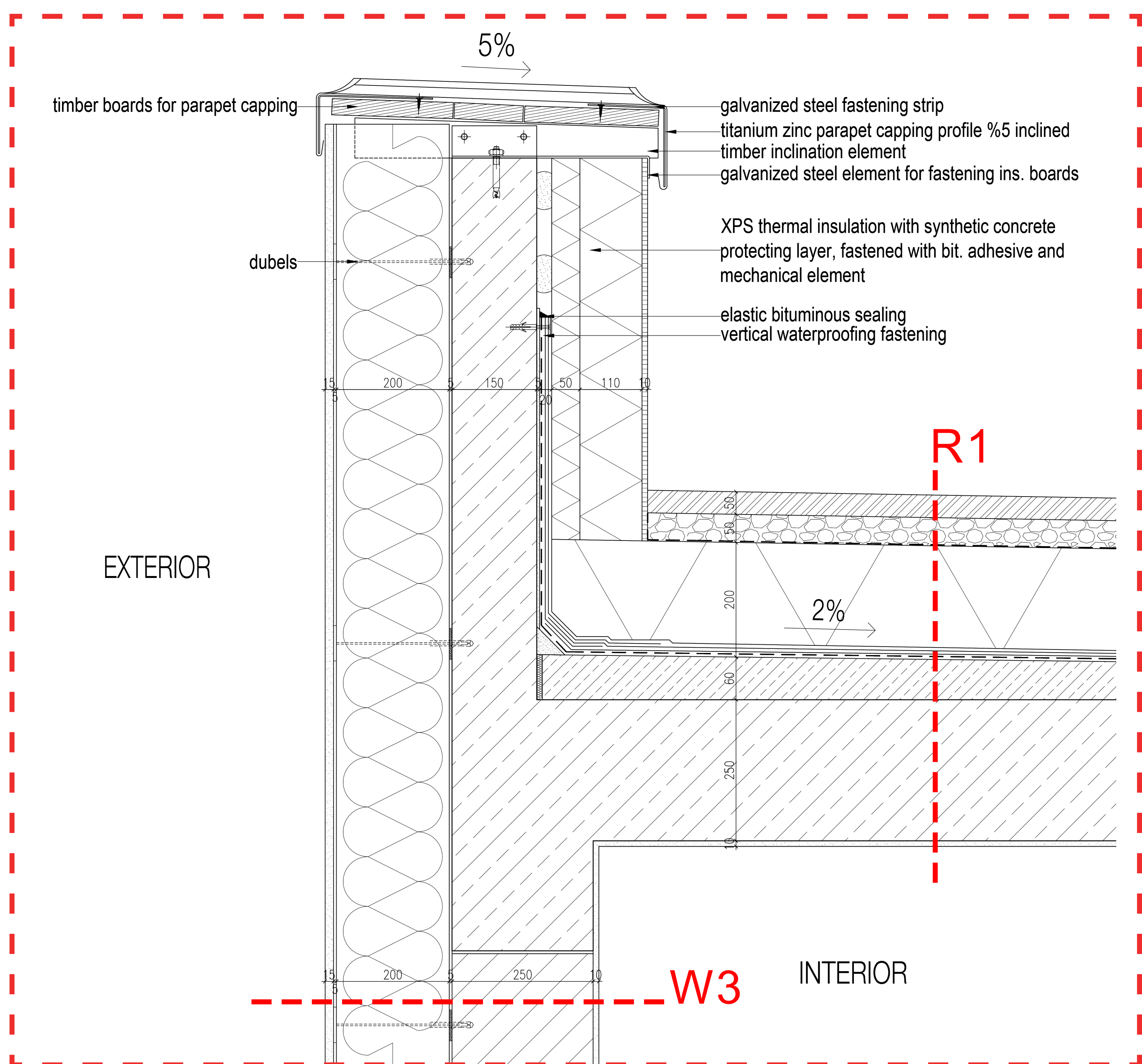
D2: Foundation, general



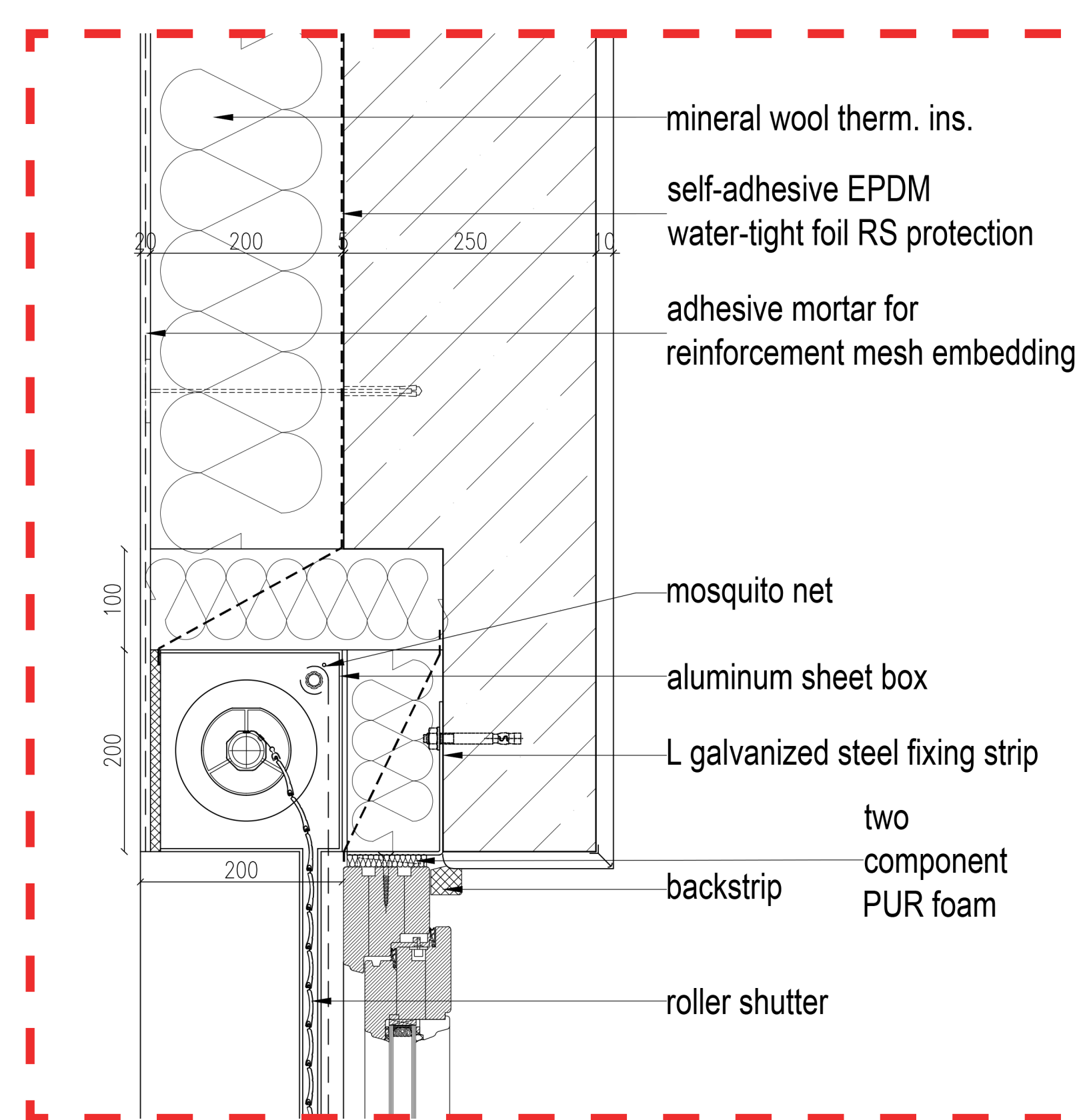
D3: Pavement connection, ground floor



D5: Curtain wall mullion anchorage



D6: Parapet



D4: Window with hidden shutter

R1 - Flat Roof - Non-walkable - 63 cm

- 5 cm - protecting concrete paving element (against wind uplift forces)
- 5 cm - Ø16-32 mm gravel ballasting
- 1 layer - synthetic filter with specific density of 125 g/m²
- 20 cm - XPS thermal insulation, with staggered joints
- 1 layer - modified bitumen waterproofing membrane (polyester fibre reinforced)
- 1 layer - modified bitumen waterproofing membrane (glass fibre reinforced)
- 1 layer - cold bitumen patching compound (about 300 g/m²)
- 6 cm - concrete inclination layer
- 25 cm - monolithic RC slab

R2 - Flat Roof - Walkable - 60 cm

- 4 cm - natural stone paving tiles
- 5 cm - Ø16-32 mm gravel ballasting
- 1 cm - studded drainage membrane
- 1 layer - PVC waterproofing membrane
- 25 cm - PIR foam insulation, providing slope
- 1 layer - vapor barrier cold bitumen patching compound (about 300 g/m²)
- 25 cm - monolithic RC slab

W1 - Basement Wall - General - 60 cm

- 1 cm - internal plaster + paint
- 25 cm - monolithic RC wall construction
- 1 layer - bituminous glazing
- 20 cm - XPS thermal insulation
- 15 cm - concrete insulation retaining wall
- 2 layers - modified bitumen membrane water protection

W2 - Basement Wall - Neighboring - 65 cm

- 1 cm - internal plaster + paint
- 25 cm - monolithic RC wall construction
- 20 cm - XPS thermal insulation
- 2 layers - modified bitumen membrane water protection
- 1 layer - bituminous glazing
- 15 cm - concrete insulation retaining wall
- 5 cm - gap neighboring building

W3 - General Wall - 49,5 cm

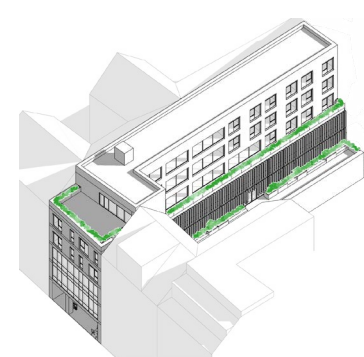
- 1,5 cm - decorative plaster and paint
- 0,5 cm - thin base plaster and glass net render system
- 20 cm - mineral wool thermal insulation
- 0,5 cm - airtight base plaster (glue layer)
- 25 cm - brick
- 2 cm - internal plaster and paint

S1 - General Slab - 40,5 cm

- 0,5 cm - resin finish
- 7 cm - concrete screed
- 1 layer - PE foil technological layer
- 3 cm - mineral wool sound insulation layer
- 5 cm - EPS installation layer
- 25 cm - monolithic RC slab

S3 - Basement Slab - Foundation - 119,5 cm

- 0,5 cm - resin
- 7 cm - concrete screed
- 1 layer - PE foil technological layer
- 12 cm - EPS thermal insulation
- 5 cm - EPS installation layer
- 50 cm - monolithic reinforced concrete foundation
- 5 cm - precast concrete
- 1 layer - modified bit. thick sheet waterproofing (0,4 cm)
- 1 layer - cold bituminous grounding (0,2 cm)
- 10 cm - reinforced concrete screed
- 30 cm - gravel bed
- subsoil



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Urban Design Specialization

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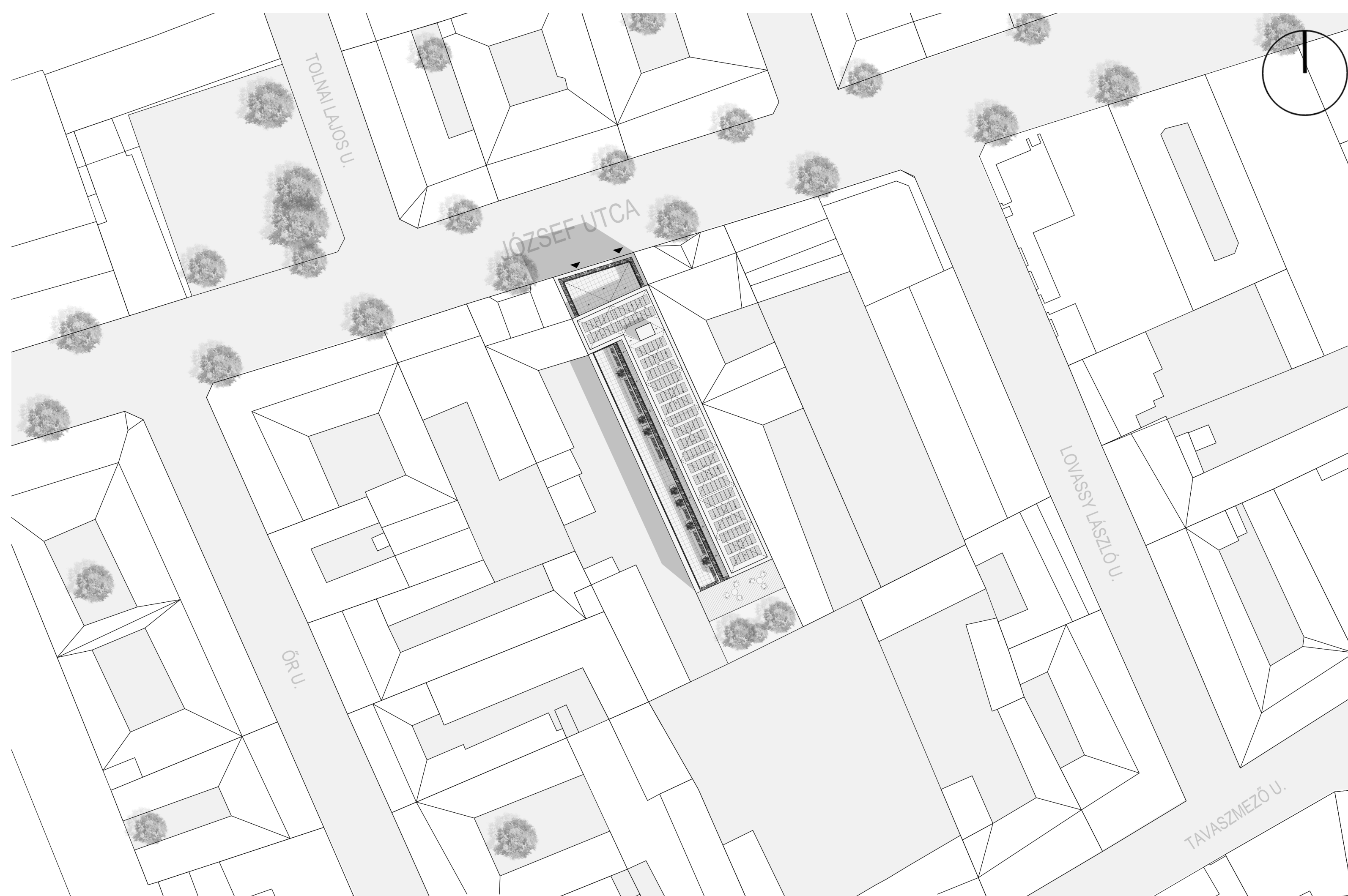
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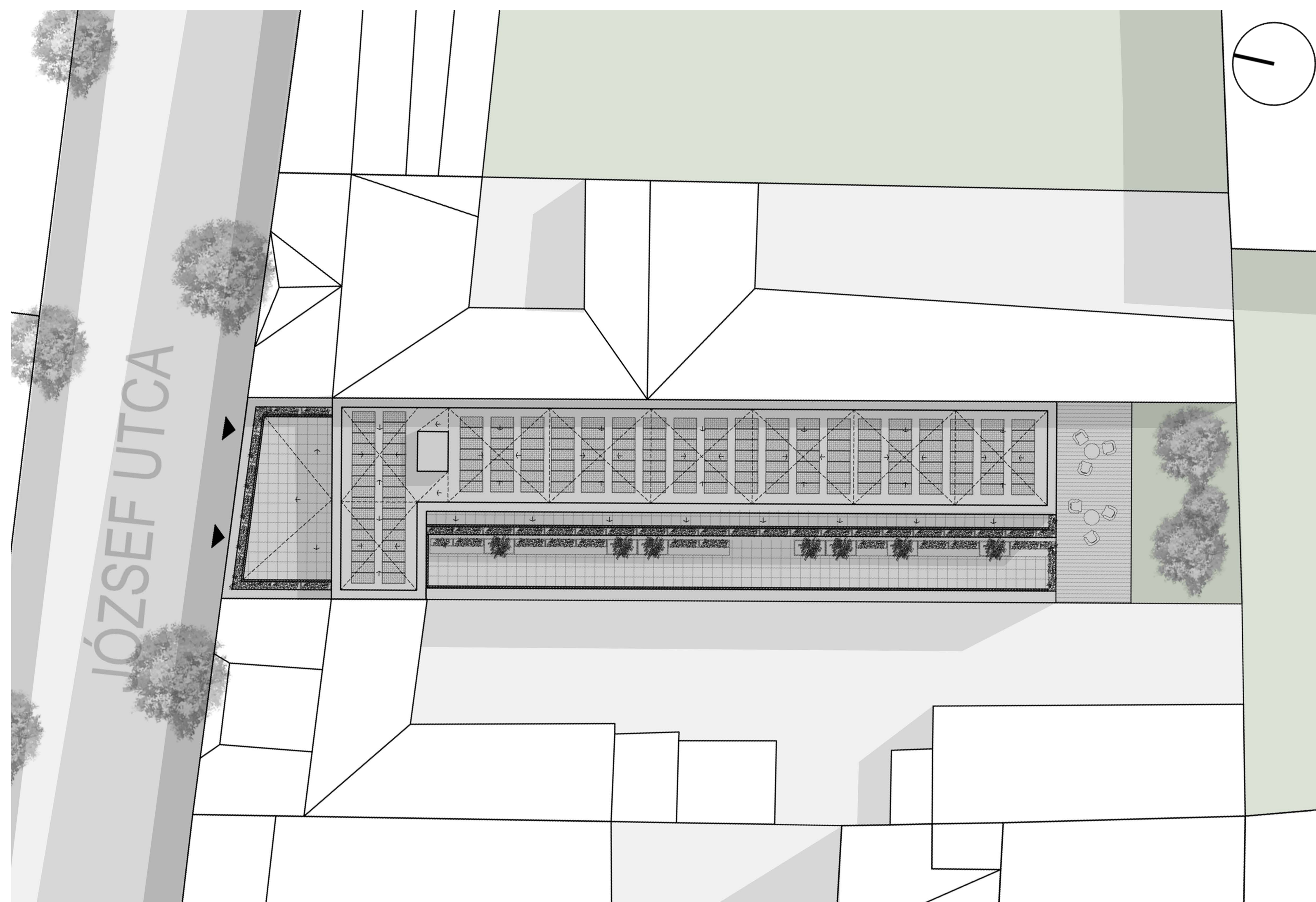
Site Plan

S=1:1000



Site Plan

S=1:500



Site Plan

S=1:200



Aerial view



Site photos

Function: Equality Center
Project Site: József u. 39, 1084, Budapest, Hungary
Plot Area: 855,5 m²

The selected plot is an empty infill lot currently used as a paid car parking area. The lot is 64,3 meters long and 13 meters wide. There is no vegetation inside lot. The two neighboring buildings are 24-25 meters height resulting the proposed project to match this height as well. The site is located in the revitalizing downtown area of Budapest, VIII. district, between Rákóczi Square and Horváth Mihály Square, close to Óbudai University.

Building and Fire Regulations

(According to Budapest Főváros VIII. kerület Józsefvárosi Önkormányzat Képviselő-testületének 45/2023. (XII. 14.) önkormányzati rendelete)

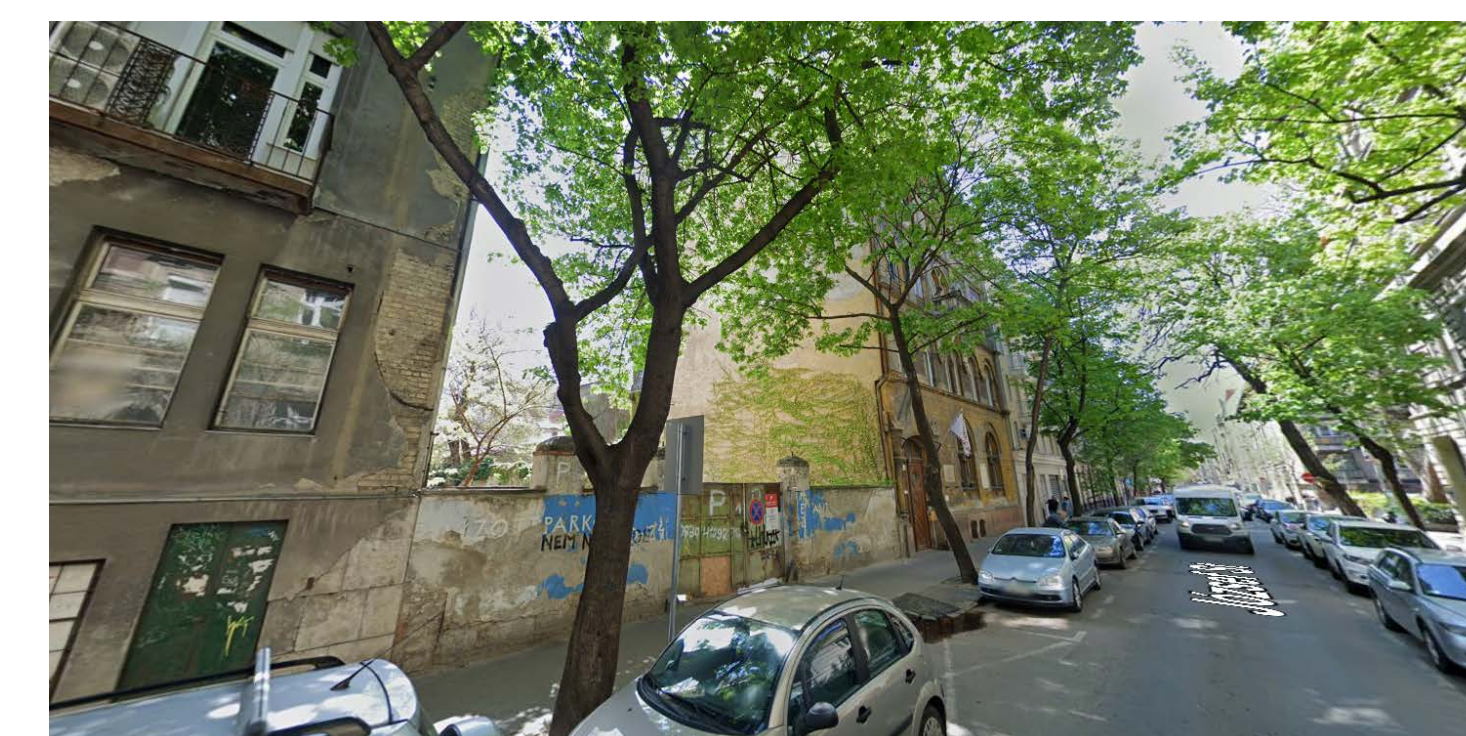
The most important and effective legal regulations that were taken into consideration during the design process of this project were:

1. Fire Regulations: The distance between the neighboring building and the designed project has to be at least 8 meters, if there is no fire wall in between.
2. Building Regulations: The distance from the neighboring parcel and built project should be at least 5 meters but through the consultations with the chief architects 4 meters is also fine. This regulation is explained throughly below:

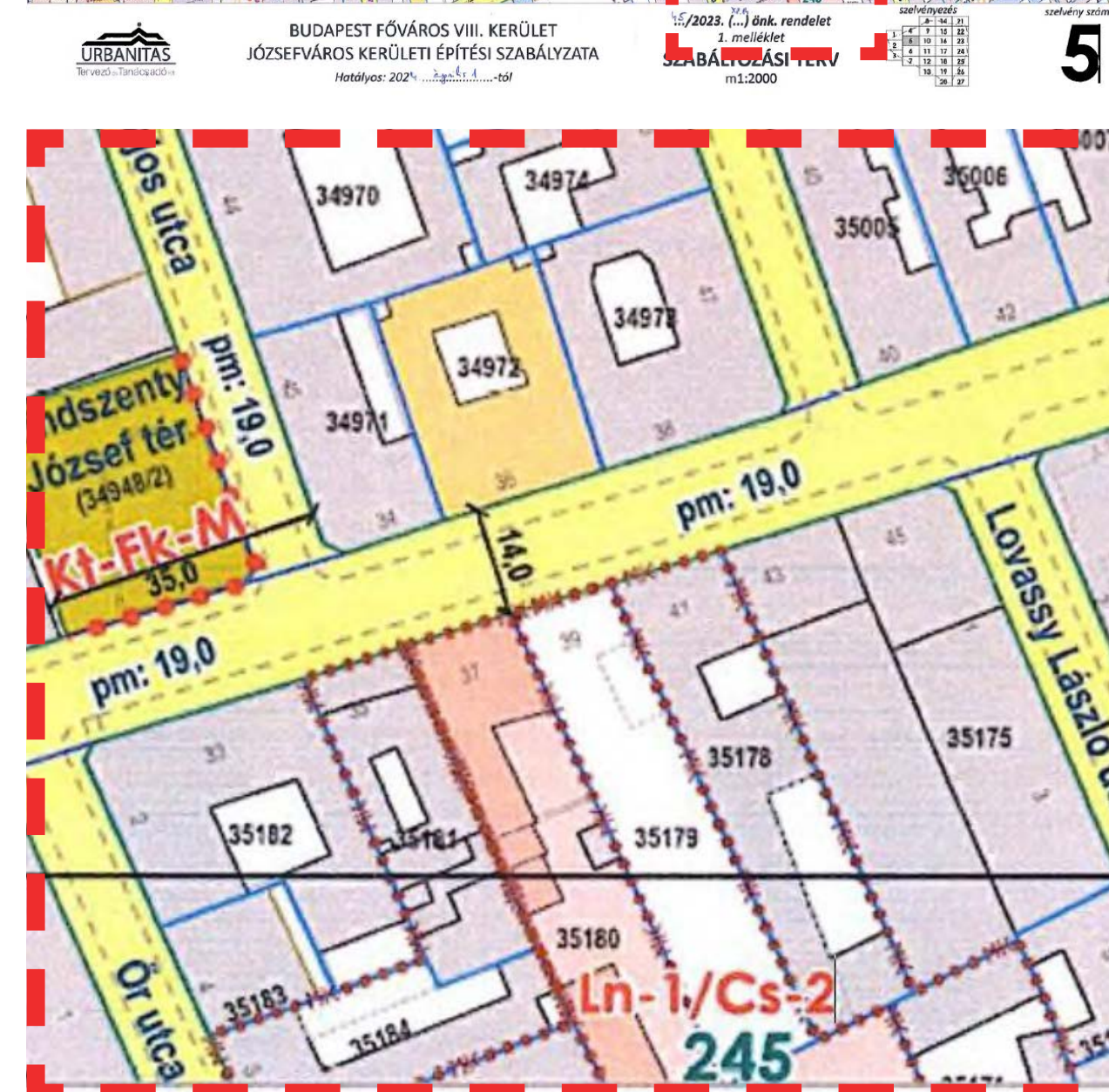
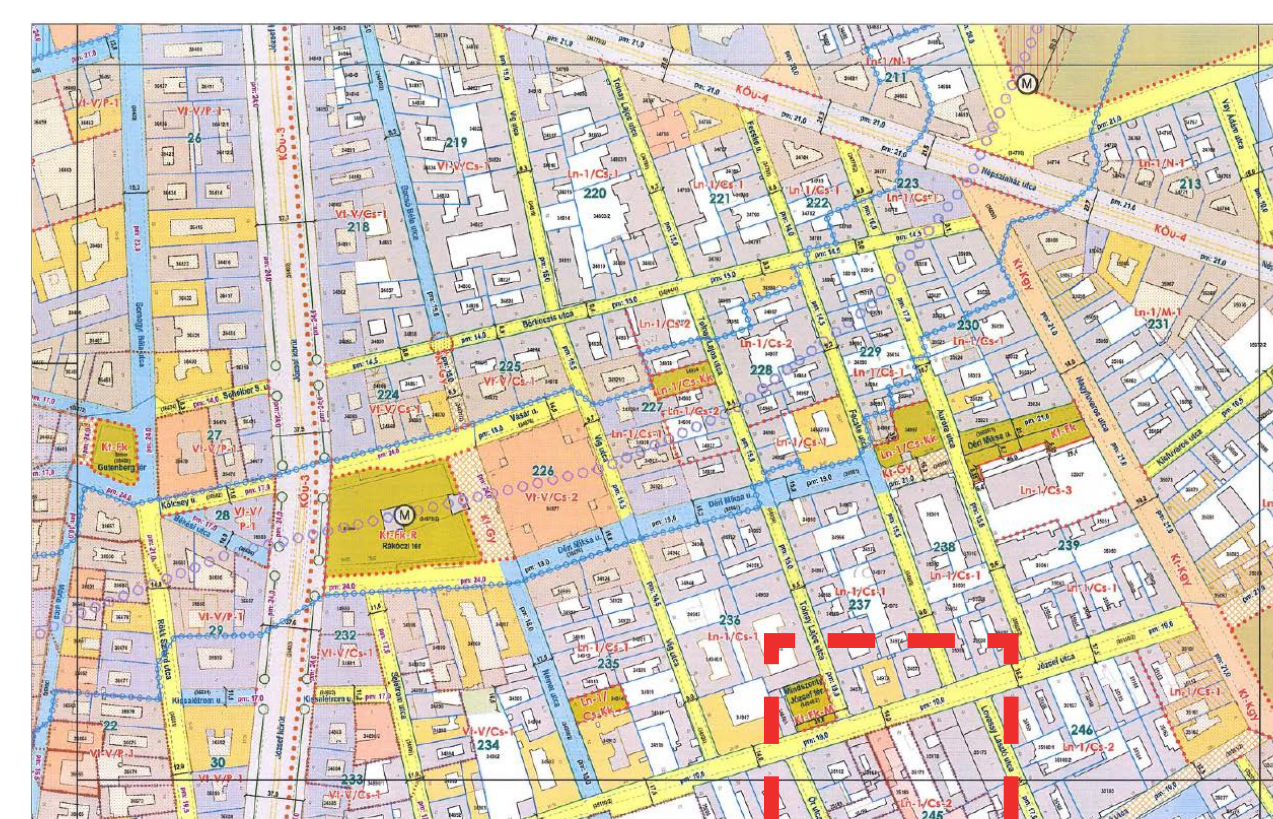
§ 27 Specifications for the enclosed type of construction -

(5) The distance between the building elevations facing the courtyard and the building facades facing the side and rear lot lines, if at least one of the facades contains an opening for a room for permanent occupancy, shall be at least half the height of the opposite lower facade, but not less than 10,0 metres, or 8,5 metres in the case of a public health facility, and shall not be overlooked by any part of the building, except by a lift and access corridor installed subsequently in accordance with paragraph 9. Any other solution may be applied only in the case of an established condition and in consultation with the supporting chief architect.

(6) The distance from the site boundary of the façade containing the opening to the permanent accommodation shall be 5 metres, into which no part of the building may project. Other than the above may be used only in the case of an established condition and a supporting Chief Architect's consultation.



Street view



Regulatory plan taken from Urbanitas "BUDAPEST CAPITAL VIII. DISTRICT BUILDING REGULATIONS OF JÓZSEFVÁROS" for the purpose of diploma work. As visible on the drawing, the plot belongs to the Lh-1/Cs-2 zone with parcel number 35179.



Functional analysis of the surroundings



Public transportation analysis

