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Budafok Cultural Point
Urban Planning and Design Department
Diploma Project

Building Construction
Technical Description booklet

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Table of Contents

1. Project Introduction.....	3
1.1 Project Description.....	3
1.2 Project Program:	3
1.3 Urban and Site Study	4
1.4 Project Program.....	6
1.5. Architectural Concept:	7
2. Building Systems	8
2.1 Design Decisions:	8
2.2 Load Bearing System	9
2.2.1 Skeleton frame System.....	9
2.2.2 One Way slab	10
2.2.3 foundation system	11
2.3 Thermal Insulation	12
2.3.1 Exterior Envelope	12
2.4 Water proofing	12
2.5 Building Finishing.....	13
2.5.1 Exterior Walls Finishing	13
2.5.2 Interior Walls finishes	14
2.5.3 Interior floor/ Ceiling finishing.....	14
.....	14
2.5.4 Exterior Paths ways finishing Materials	14
2.6 Curtain Wall System	15
2.7 Project Openings	15
2.7.2 Interior Doors	16
2.7.3 Windows.....	16
2.7.4 Skylight	17
3. Building Layer Buildup	17

1. Project Introduction

1.1 Project Description

Budafok Cultural Point, is a project centered around three main aspects within the urban context, providing information for visitors and locals about the different events within the city. Provide a space to showcase local heritage and Culture; and Create a space for locals and visitors to interact and share the local experience of wine and champion made in Budafok city

The project is located within the city center of the city next to the following landmarks, Saint Leopold Church, Trolly Castle and Museum, the Dream Car Museum.

Studying the urban Context, surrounding key structures, as the mentioned landmarks, highlighted key aspects within the daily life of the city.

which is the high number of Existing cultural and heritage spaces, such as exhibitions, Museums, Art spaces. And the existing Wine cellars Museums. Alongside the yearly festivals for Jazz and local champion. Which presented the string cultural side of the city, nevertheless it also presented a lack of a starting point for visitors to begin their journey within the city, hence the need for the project.

The project presents a complementary spatial structure aiming to support and empower the existing spaces within the city.

1.2 Project Program:

Through the following Key Functions:

1. Information Service; through dividing this general function into Info desk provide visitors with key services such as ticket sales for local events, maps, information about the study. While the second part would be a permeant information hall, presenting historical information and identify key trails within the city.

2. Cultural Aspect: which would presented through creating a wine bar, which will serve the project users, whether they are locals, or visitors, in order to create space for sharing and interaction, while in relation provide both physical and visual access to surrounding open spaces.

In summery the project key functions are as follow:

1. Information desk and Reception
2. Information Hall
3. Wine and Art Exhibition
5. Wine Bar

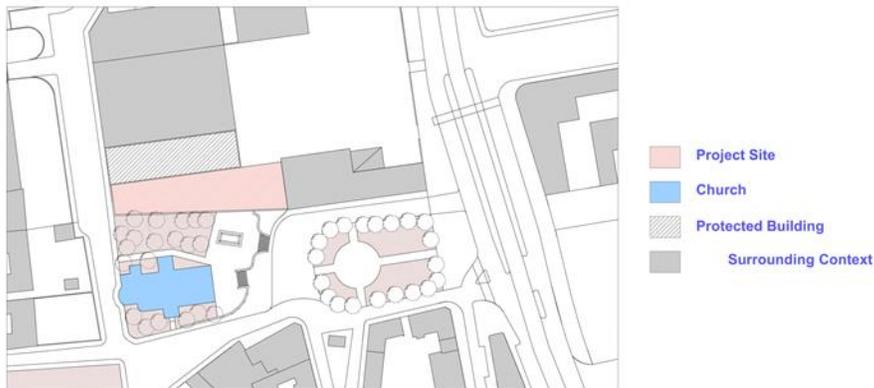
1.3 Urban and Site Study

The site diagram illustrates how the urban context is centered in relation to the river and creating a connection between the different parts of the city center toward the denser parts which host residential buildings. Nevertheless, at the human scale level, the city allows different connection within itself, allowing transition from street side walks to open spaces, in fluid way

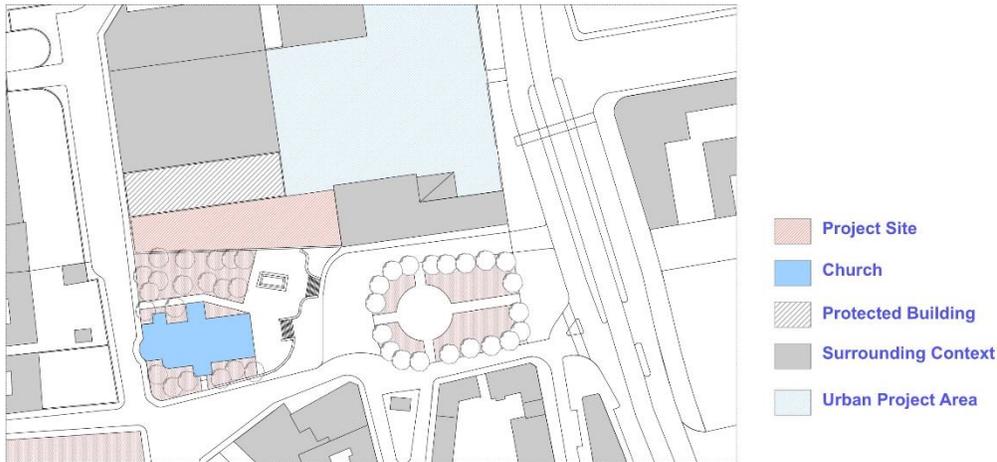


Which show cased in the following. Which became a part of the project development in order to continuo with seamless connection between spaces.

Surrounding Context 1/1000



Surrounding Context 1/1000



the adjacent diagram illustrates the site geometry , following the regulation of the site, which will force the developing the project in linear approach to accommodate the limitation placed by the both geometry and regulation.

as shown in the image the previous function of the site, illustrator that it was used for loading and unloading from the storage spaces within the protected building which in itself present the limitation, where in future days the building might be developed and utilized for further use. given that this force the need to maintain a clear path between the propped project and the existing building, forcing creating a more fragmented architectural space.

In understanding the highlighted limitation within the context, as a result the following conceptual site plan highlight dealing with the site.

In summery site limitation

1. Geometry forcing a linear aspect
2. Dense vegetation, that needs to be maintained
3. Provide pedestrian accessibility from the Saint Leopold Church park.
4. Create a set back from the protected building
5. Maintain an average height of 6M per regulation and 50% built up area on ground level.
6. Water content.

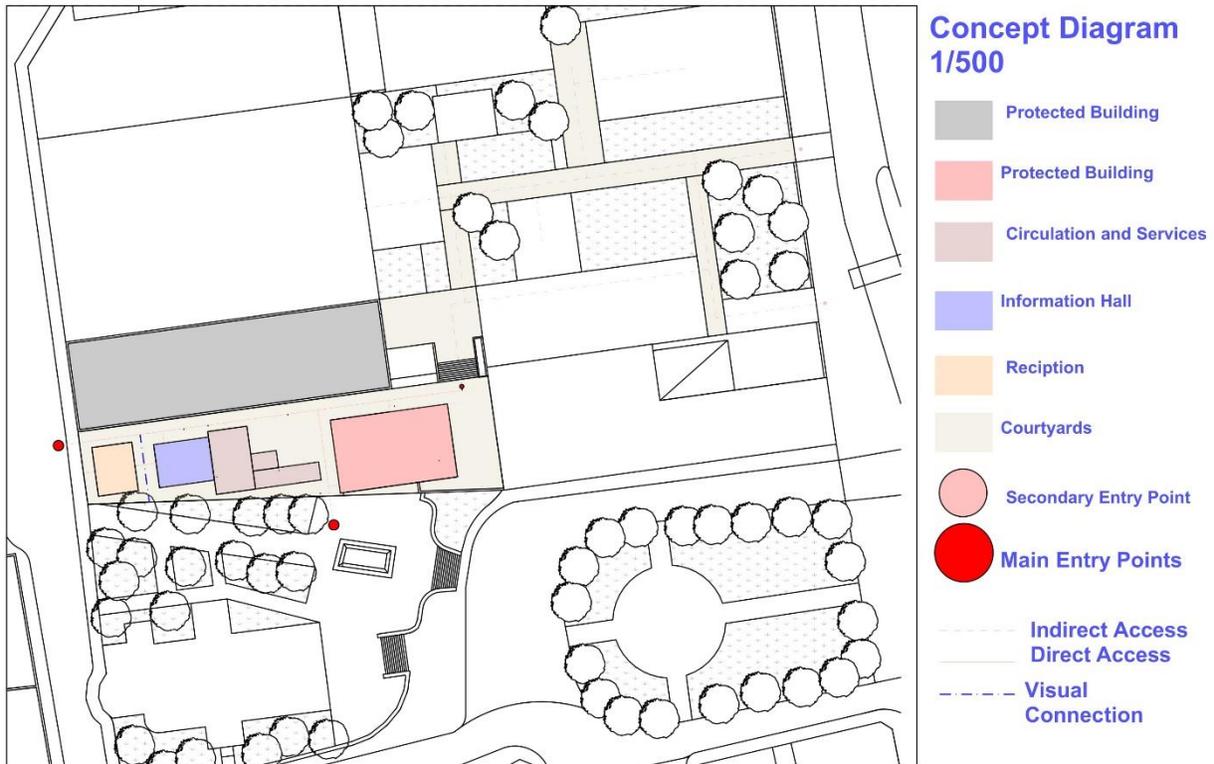
1.4 Project Program

The project as previously listed are as follow

Floor	Function	Area	Volume
Basement	Exhibition	166	631
	Wine Storage	51	194
	WC (Main Unit)	45	158
	Mechanical Room and Services	130	494
Total		392	
Ground Floor	Information desk	42	160
	Information hall	135	513
	WC 01	11	42
	Wine Bar	145	550
	WC 02	11	42
Total		334	
First Floor	Wine/Setting Area	110	418
Project Total		956	

1.5. Architectural Concept:

ARCHICAD EDUCATION VERSION



the architectural concept revolves around creating a continuous line of movement through and around the building connected the users to both the interior and exterior spaces. Which all can be connected within outdoor spaces. Hence the approach toward creating a fragmented architectural volume.

2. Building Systems

2.1 Design Decisions:

In order to accommodate the architectural needs for fragmented architecture at the visual level, while maintain the needed space requirements for the building to be functional and usable. The design process stated with simple cluster of volumes, in order to create the feeling of the project being assembled of number of spaces.

In return that need presented itself in having different levels, and different corners. Which would state a limitation on the structural systems to be used, alongside the architectural limitation placed on the project discussed earlier.

In order to choose the proper system, it needs to satisfy the following aspect:

1. Being flexible and simple, allowing the ability to shift and change load bearing direction whenever the architecture needed it.
2. have a modular aspect to it which can be used to regulate form finding for the building.
3. Relatively low cost, or easy to build since the building is considered a small architectural intervention on behalf of the public.
4. Free the elevation of any load bearing load in order to create Functional opening, which can vary in location and size based on the typology of the space it contains (as illustrated in the architectural documentation section)

In result of studying the above limitation in reference to the architectural limitation stated earlier, most suitable system would be Skeleton frame system with the main building materials as reinforced concrete.

2.2 Load Bearing System

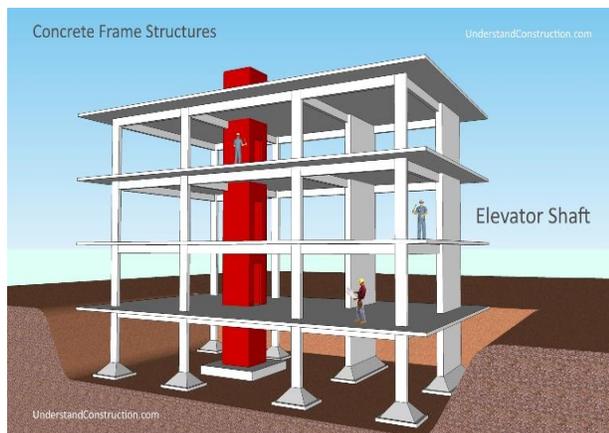
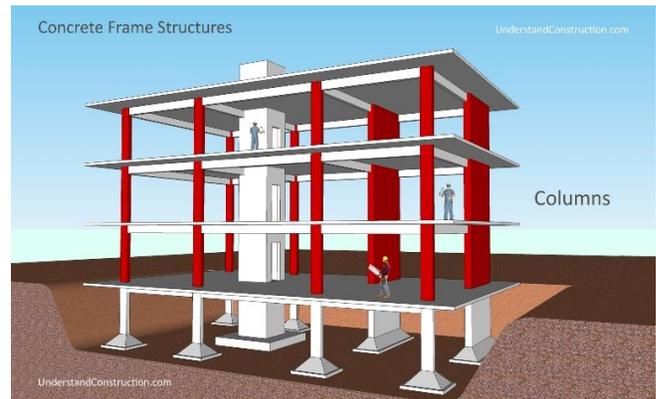
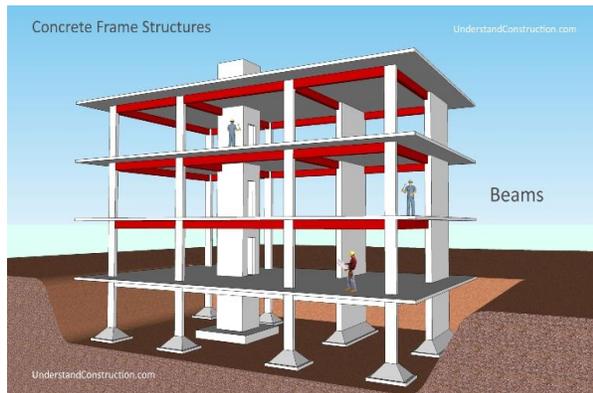
2.2.1 Skeleton frame System

The system is consisted of the following Elements:

1. Beams
2. Columns
3. Shear Walls \
4. Elevator Shaft (Core)
5. Foundation

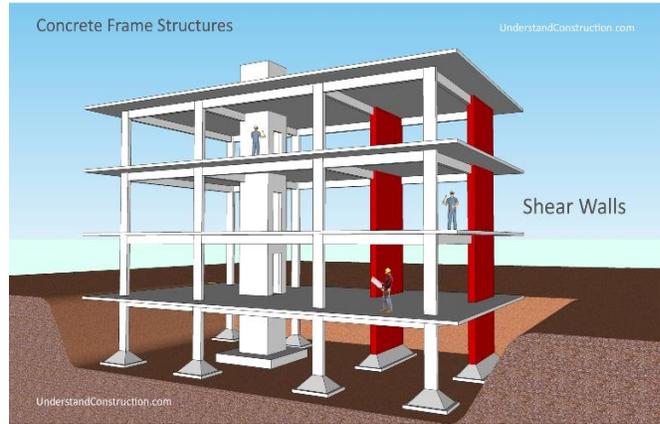


the following Diagrams High light the different elements of the structural systems.



The loads are transmitted in the system from the slabs into the beams which will transmit the loads toward the vertical load bearing toward the foundation which is rested on the load bearing soil. Follow

- The loads the building will be dealing with 1. Deadloads; which are the structure itself, building material, Interior partitions, furniture and appliances.
 2. Snow, wind, and rainwater loads
 3. live loads, the users



When designing the grid for the columns the distance between centers of each column should be between 4-8 m long, but does not exceed the distance of 8 m.

While the beams and columns transmit the perpendicular load on the slabs toward the foundation, but an additional bracing is required in regard of lateral loads such as wind load, using shear walls.

2.2.2 One Way slab

In regard of the horizontal load bearing system the project will utilize the use of one way slab, due to the fact that the building is small in size and it consist of a basement aground floor and first floor, and the same time the building is designed to host at maximum capacity of 132 users.

As illustrated in the basic calculation for the project the following measurement are highlighted

3 . System Calculations

1. Information desk

$$H_s = 6/25 = 24 \text{ CM}$$

$$H_b = 6/15 = 40 \text{ CM}$$

2. Information hall

$$H_s = 6.5/25 = 26$$

$$H_b = 6.5/15 = 45$$

3. Wine bar

$$H_s = 6/25 = 24 \text{ CM}$$

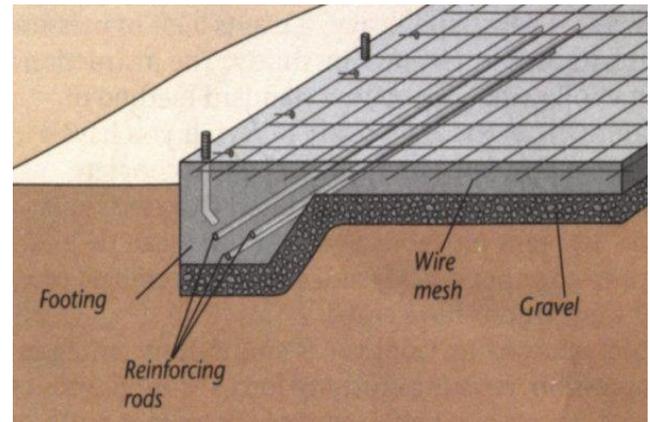
$$H_b = 6/15 = 45 \text{ CM}$$

In summery the calculation suggests the following the slab thickness would 25 CM, made of reinforced concrete, Where is the Beam cross section will be design as 30x45

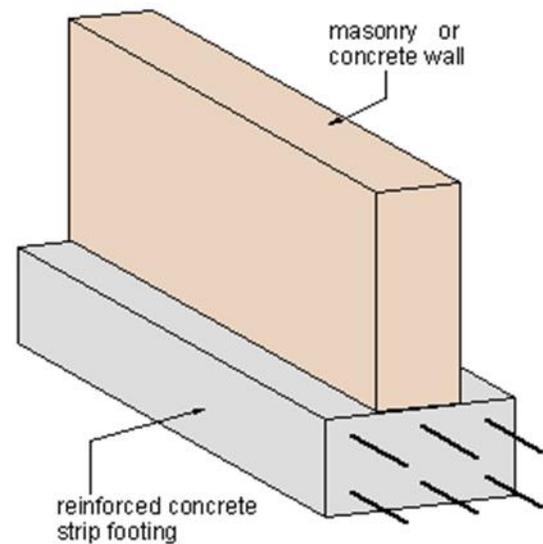
$$\text{Slab Foundation} = 3 \times 10 = 30 \text{ CM}$$

2.2.3 foundation system

In regard of the foundation, the type of foundation to be utilized in the project is a slab foundation, the reason to choosing slab foundation; is due to lack in information in regard of load bearing capacity of the project soil, on the other hand due to the location of site at the end of Torly castle which is located at a hill, the designed assumed that the water content of the soil would be high, hence designing for a worst case scenario (the same conditioned for choosing slab foundation played the same role in water proofing system to be discussed later)



In parallel to the previously mentioned reasons, the second main reasons to choose, slab foundation is the fact the project is consisted of different volumes, which vary in height, which cause different settlement levels, hence damaging the basement level which connect the project. Nevertheless, by choosing a slab foundation we ensure an equal settlement for the different parts of the project which are connected at the basement level.



2.3 Thermal Insulation

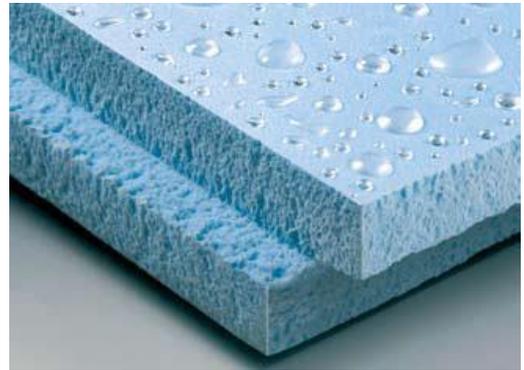
In regard of the material which would be utilized for thermal insulation in order to achieve thermal comfort for the users of the project, will be divided as following

2.3.1 Exterior Envelope

The exterior envelope will be divided to basement walls, and enclose walls, enclosing the ground floor levels and first floor too,

First the basement floor levels, the material which would be utilized for thermal insulation is Extruded PS foam 50/x100/120 cm, which will be placed in layers to equal 20 CM in total.

which would be fixed using mechanical fixation methods Along side the usage within the basement walls, it will be also utilized with the following
Basement floor, ground floor, first floor and Roofs.



On the other part which consist of the walls enclosing the ground, and first floor level would be using Mineral wool boards in order to provide the needed fire protection, in relation to the use of Ventilated elevation with the following dimensions
50/60x100/120CM
the boards will be placed in layers using mechanical fixation in order to sum up to 20 CM thickness



2.4 Water proofing

In regard of water proofing for the building, where is the main assumption driven the design decision is assuming a high water content within the soil, hence the following measures:

In regard of the basement walls, the utilization of 4 layers of PVC sheets, alongside a water drainage layer as an additive protection, which would be repeated within the exterior ground floor, the building roofs.

In regard of the Indoor water proofing, the same material would be used, the only changes would take place is using



two layers instead of four, and the elimination of the drainage layer.

2.5 Building Finishing

2.5.1 Exterior Walls Finishing

The Exterior Envelope of the building will be covered using stone cladding material, the reason for choosing such material, is to create harmony with the surrounding context; where is the main materials used are red brick exterior, or different color of paint. While also create a contrast through the application of the cladding material size and tone which suggest a contemporary dealing with the exterior. As shown in the image which illustrate the system key elements which would be utilized within the project.

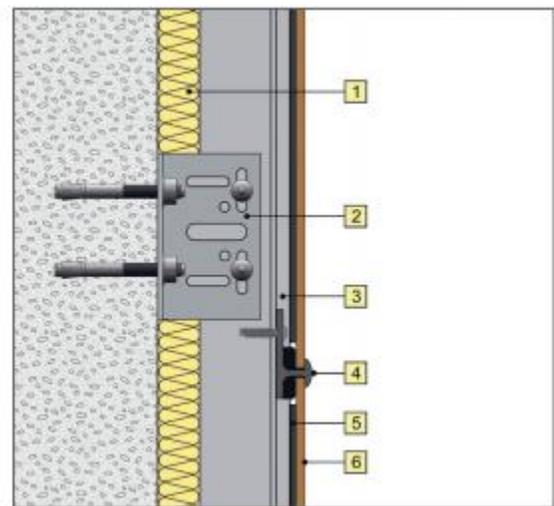


The system details in general are as follow

1. Thermal Insulation
2. ESC aluminum 100x65x60x3
3. Vertical aluminum profile "T 100x50x2
4. Aluminum Clip System
5. Adhesive PanelTack-HM
6. NEOLITH Slab

In regard of the Slab (the cladding elements)
Slabs are available in 125" x 59" (3.200 x 1.500 mm) and 141" x 47" (3.600 x 1.200 mm). Standard thicknesses are 1/4" (6mm) and 1/2" (12mm). Please consult NEOLITH for recommended sheet size and proper thickness based on application.

Cut-to-size for projects is available



The modification for the proposed system in relation to the project would in the following two layers,
1. The mechanical Fixation would be connected to 30 CM concrete block
2. The Thermal Insulation layer thickness is 20 CM instead the shown which is 5 CM (as an estimation)

2.5.2 Interior Walls finishes

for interior spaces, where the desire architectural interior concept revolve around creating a contemporary view of an industrial space, where is the walls would provide a contrast to the floor finish material and ceiling (in which the mechanical and electrical equipment's would be exposed and painted black) hence the use of light color paint as illustrate in the reference image.

The contrasting layer would be the floor, where the main finish would be concrete as discussed in the next section



2.5.3 Interior floor/ Ceiling finishing

As mentioned earlier the interior floor within the project will follow, a unified them where is the finishing material them would, concrete floor finish, following with the main interior design concept.



2.5.4 Exterior Paths ways finishing Materials

The Exterior paths ways which connect the different parts of the courtyards with the interior of spaces, will be covered using Concrete tiles as illustrated in the attached image.(these pathways are roofs for area in the basement where the details of layers will be discussed in the construction layers section, alongside the building details).

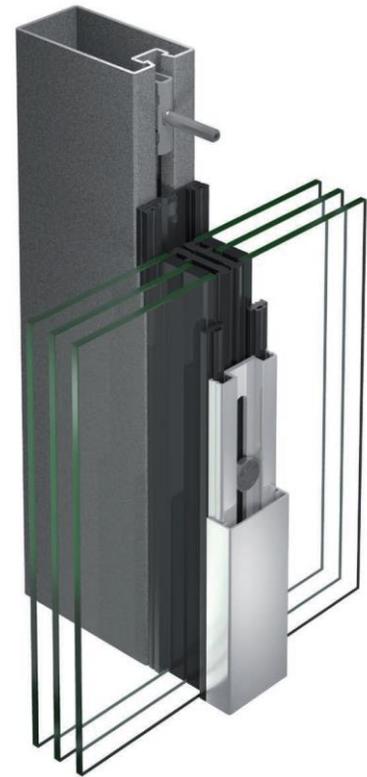


2.6 Curtain Wall System

In accordance with structural requirements, pane sizes or the thicknesses of the infill units, the optimum components from a technical and economical perspective are selected from the modular system. The VISS façade is also available as a highly thermally insulated system with a corresponding passive house certification for newbuilds as well as renovations. Outer cover profiles are available in a range of depths and shapes. Infill unit thicknesses from 6 to 70 mm.

CE marking in accordance with EN 13830

- Thermal transmittance of $U_f > 0.51 \text{ W/m}^2\text{K}$
- Sound reduction R_w of 47 dB
- Watertightness class RE 1200
- Air permeability class AE
- Resistance to wind load class 2 kN/m²
- Impact resistance class E5/I5
- Prefabricated glazing suitable for safety barrier loading in accordance with DIN 18008-4 Category A and C22
- Passive house certificate



2.7 Project Openings

2.7.1 Exterior Doors

Highly insulated steel doors reduce thermal transmittance to a minimum Manufactured by Janisol.

Reasoning for choosing this product and description

Janisol HI steel doors

conveniently combine mechanical stability with high thermal insulation properties in one single steel profile system.

Thanks to insulating bars made from glass fiber-reinforced polyurethane, Janisol HI achieves U_d values to $1.0 \text{ W/m}^2\text{K}$.

With a basic depth of 80 mm, infill unit thicknesses of up to 57 mm can be used. A comprehensive and coordinated range of fittings and accessories, as well as a range of thresholds, which can be selected to suit the situation, provide the perfect solution for all possible applications. Thanks to the specially



formed insulating bars, the lock can be installed in the center of the profile very easily and efficiently.

2.7.2 Interior Doors

In regard of interior walls used within the project, as shown in the attached image. The project will be utilized MDF panels doors with a solid wood frame for the separation of interior spaces. Except of mechanical section where the same doors system used for Entrance will be used

PRIME | 040
Ecoventer

EUROWOOD COMPANY

CHARACTERISTICS
Model: ecoventer
Range: 040
Type: Full Wood-Magic - Central automatic handle (PVC-free)
Material: melamine for exterior and melamine for interior
Finishing: PVC-free
Leaf thickness: 40mm
Glass: optional - max 1000x2000mm

CUT ANGLE

COLORS
Black
White

PRIME 040

Technical icons: 1. Frame profile (horizontal), 2. Frame profile (vertical), 3. Glass panel height of door leaf, 4. Max. glass width of door leaf, 5. Thickness of door frame.

EUROWOOD COMPANY

2.7.3 Windows

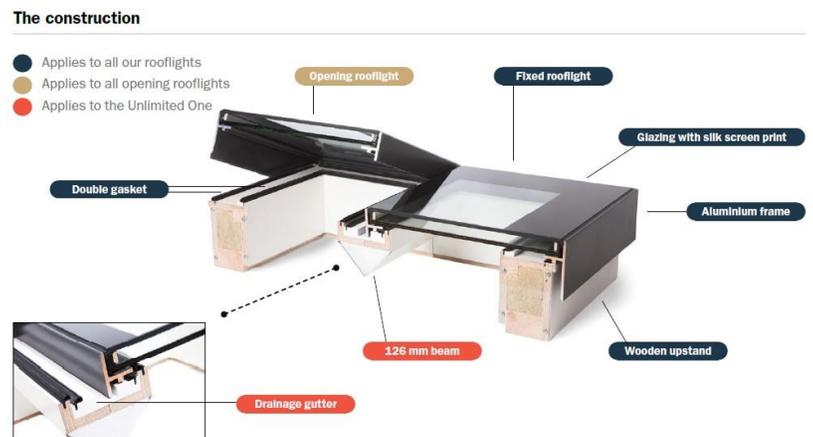
The system which is produced from Janisol windows and doors. Is used within the project due to its highly efficient in regard of thermal comfort, which play huge role in maintain a low energy consumption for the project. The main design for the windows. the project openings is characterized as tilt turn system. The attached image show case the cross section of the frame, and how the glass elements are inserted within the frame.



2.7.4 Skylight

The elements of choice produced by Velux, the system was chosen for its technical aspects, where it provide high thermal insulation, while also allow freedom in geometry, where the same product, as produces in different forms. Which accommodate the different design concepts presented in architectural documentation. The project will only utilize the roof light elements in order to provide the needed natural lighting for the interior spaces.

the attached image show case the construction method of the element (the image show case both fixed which would be used in the project, and an opening).



3. Building Layer Buildup

W-01

1.2 CM Stone Panel
5 CM Air Gap
20 CM Thermal Insulation Mineral Wool
20 CM RC wall

W-02

15 CM Thermal Brick
Bisemous Water Proofing
20 CM Thermal Insulation
20 CM RC Wall
Waterproofing
2 CM tiles and Glues

W-03

2 Finish- Plaster and Paint
30 CM Insulated brick
2 CM Finish - Plaster and Paint

W-04

1.2 CM Reinforced Stone Panel
5 CM airgap

20 CM Thermal Insulation
30 Brick
2 CM Plaster Finish

W-05

15 CM Thermal Bick Wall
Bitinomus Water Proofing
20 CM Thermal Insulation
30 CM Brick Wall
2 CM Plater finish

W-06

2 CM Plaster Finish
10 CM Brick
10 CM Sound Insulation
10 CM Brick
2 CM plaster Finish

W-07

2 CM Plaster Finish
30 CM Thermal Brick
2 CM plaster Finish

W-08

2 CM Tiles and Glue
Water Proofing 60 CM High
10 CM Brick Wall
2 CM plaster Finish

F-01

10 CM gravel
PVC Water Proofing// Fesile
25 CM EPS boards Thermal Insulation 2% slope
Vapor Barrier
25 CM reinforced Concrete Slab

F-02

8 CM concrete Floor with Polished Finish
Water Proofing
8 CM Sound Insulation
25 CM RC slab

F-03

2CM Tiles and Glue Screed
Water Proofing
8CM Sound Insulation
35 RC- Slab Foundation
10 CM Concrete
PVC Water Proofing
15 CM concrete
25 CM gravel

Compacted Soil

F-04

8CM Concrete Floor
Water Proofing
8 CM Sound Insulation
35 CM RC slab
10 CM concrete
PVC Water Proofing
15 CM Concrete
25 CM Rubble Compacted Soil

F-05

8 CM concrete Floor
PVC Water Proofing
10 CM Thermal Insulation
PVC Water proofing
20 CM RC Slab
Rubble
Compacted Soil

F-06

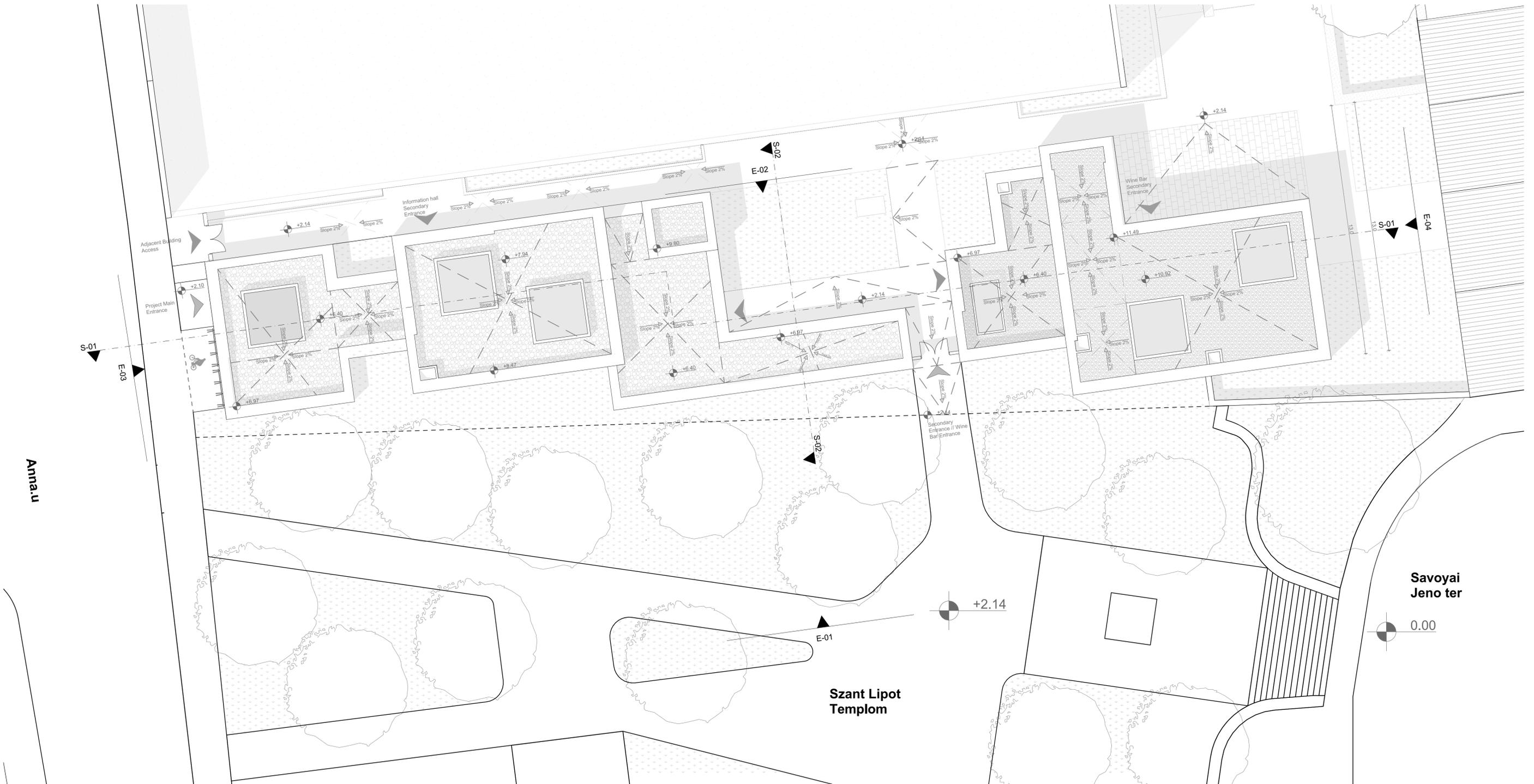
5 CM Stone Flooring
9 CM Concrete Screed
Drainage layer
PVC Water proofing and Fesile layer
25 CM EPS Thermal Insulation 2% Slope
Vapor Barrier
25 CM RC slab

F-07

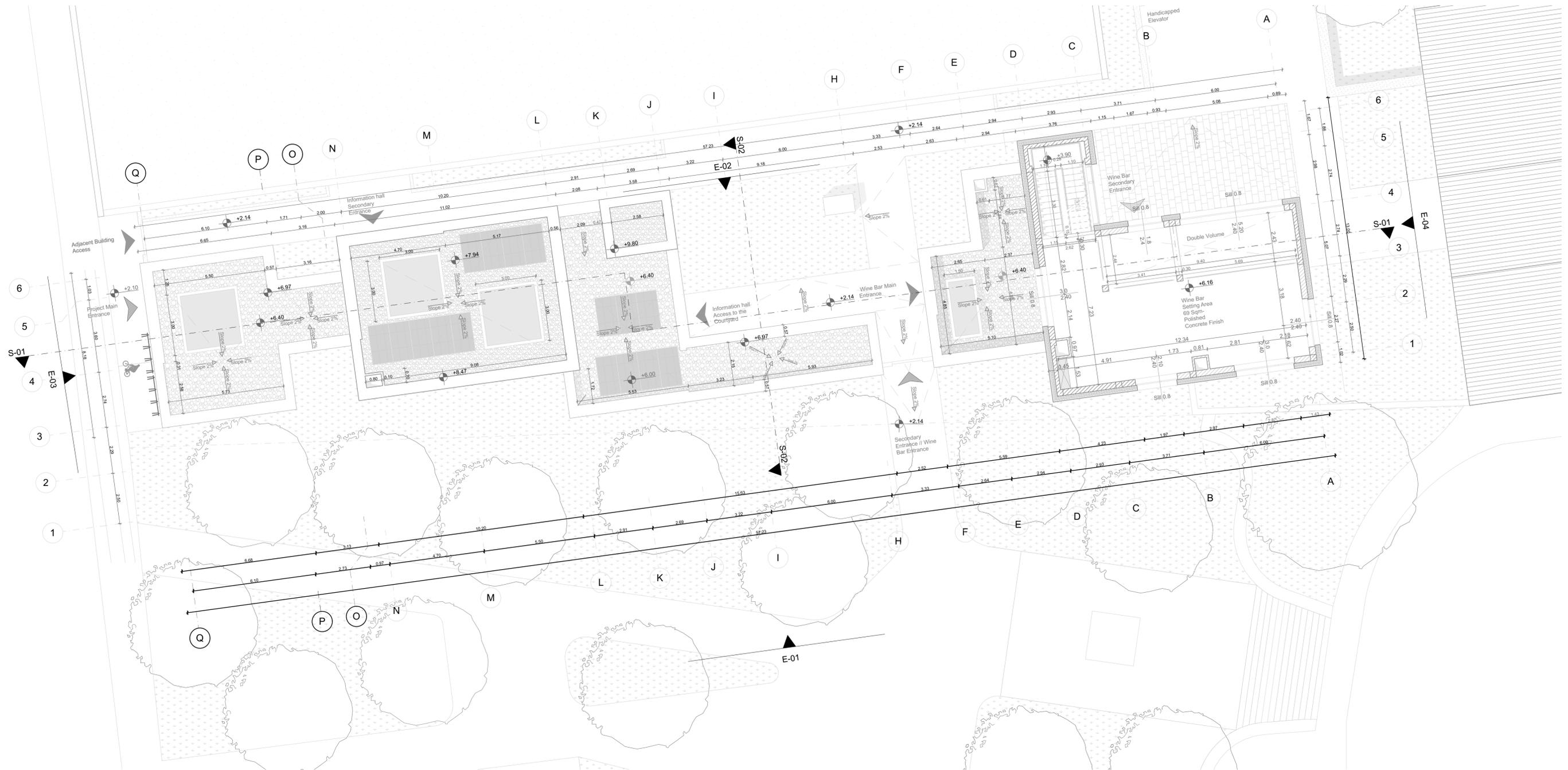
40 CM Soil // Plants
Drainage Layer
PVC water proofing // Fesole protection layer
25 CM EPS Thermal Insulation 2% Slope
Vapor Barrier
25 RC Slab

F-08

5 CM Stone Floor
10 CM Concrete Screed 2% slope
25 CM Gravel
Rubble
Compacted Soil



Legend	
	Reinforced Concrete
	Brick
	Concrete
	Stone Cladding
	WaterProofing
	Thermal Insulation XPS
	Sound Insulation
	Compacted Soil
	Gavel
	Rubble
	Tiles
	Plastic // Sealent
	fleece-reinforced and liquid
	Drilage Sheet
	Plywood



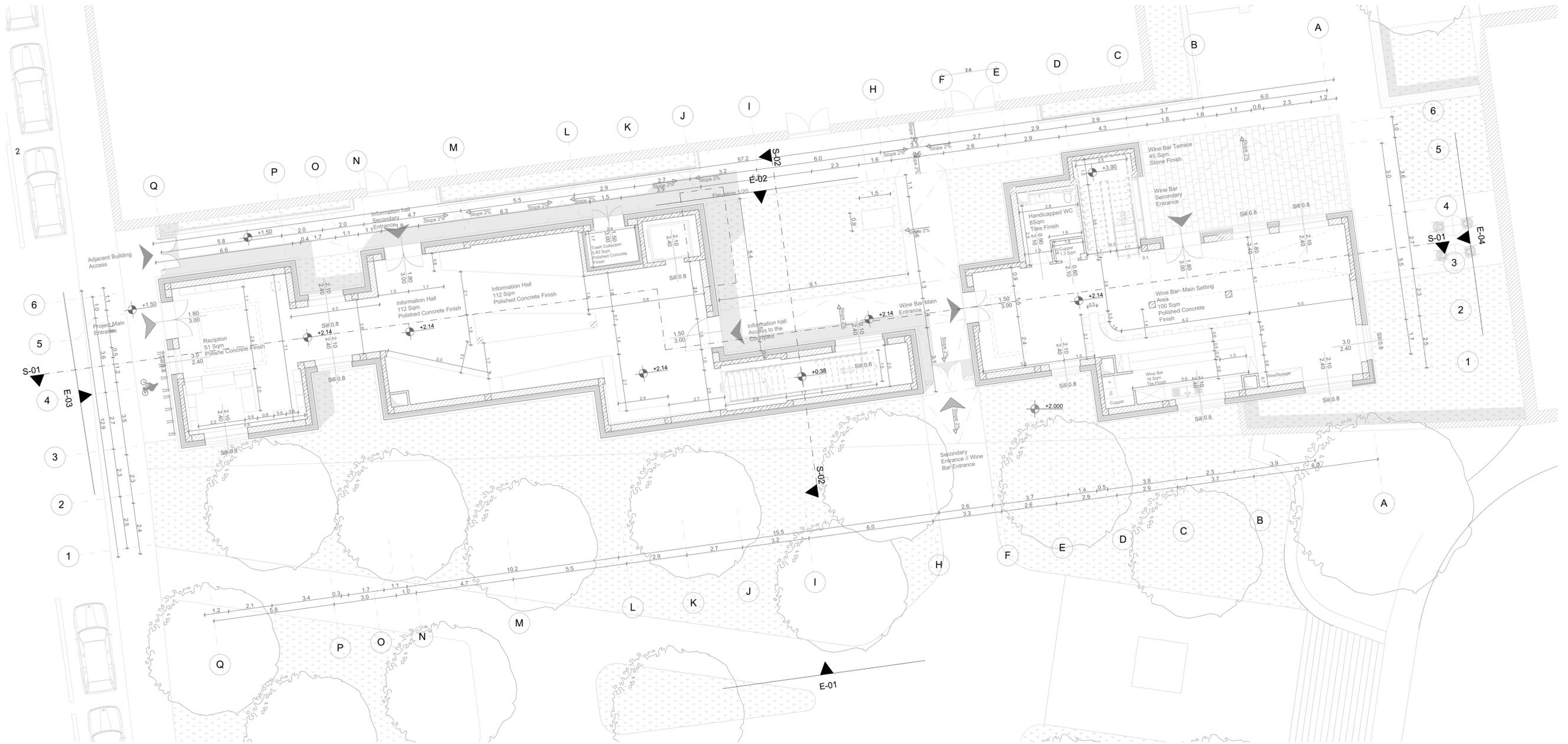
Building Layers

<p>W-01 1.2 CM Stone Panel 5 CM Air Gap 20 CM Thermal Insulation Mineral Wool 20 CM RC wall</p>	<p>W-02 15 CM Thermal Brick Bisemous Water Proofing 20 CM Thermal Insulation 20 CM RC Wall Waterproofing 2 CM tiles and Glues</p>	<p>W-03 2 Finish- Plaster and Paint 30 CM Insulated brick 2 CM Finish - Plaster and Paint</p>	<p>W-04 1.2 CM Reinforced Stone Panel 5 CM airgap 20 CM Thermal Insulation 30 CM Brick 2 CM Plaster Finish</p>	<p>W-05 15 CM Thermal Bick Wall Bitinomus Water Proofing 20 CM Thermal Insulation XPS 30 CM Brick Wall 2 CM Plater finish</p>	<p>W-06 2 CM Plaster Finish 10 CM Brick 10 CM Sound Insulation 10 CM Brick 2 CM plaster Finish</p>	<p>W-07 2 CM Plaster Finish 30 CM Thermal Brick 2 CM plaster Finish</p>	<p>F-01 10 CM gravel PVC Water Proofing// Fesile 25 CM EPS boards Thermal Insulation 2% slope Vapour Barrier 25 CM reinforced Concrete Slab</p>	<p>F-02 8 CM concrete Floor with Polished Finish Water Proofing 8 CM Soind Insulation 25 CM RC slab</p>	<p>F-03 2CM Tiles and Glue Screed Water Proofing 8 CM Sound Insulation 35 RC- Slab Foundation 10 CM Concrete PVC Water Proofing 15 CM concrete 25 CM gravel Compacted Soil</p>	<p>F-04 8CM Concrete Floor Water Proofing 8 CM Sound Insulation 35 CM RC slab 10 CM concrete PVC Water Proofing 15 CM Concrete 25 CM Rubble Compacted Soil</p>	<p>F-05 8 CM concrete Floor PVC Water Proofing 10 CM Thermal Insulation PVC Water proofing 20 CM RC Slab Rubble Compacted Soil</p>	<p>F-06 5 CM Stone Flooring 9 CM Concrete Screed Drainage layer PVC Water proofing and Fesile layer 25 CM EPS Thermal Insulation 2% Slope Vapour Barrier 25 CM RC slab</p>	<p>F-07 40 CM Soil // Plants Drainage Layer PVC water proofing // Fesole protection layer 25 CM EPS Thermal Insulation 2% Slope Vapour Barrier 25 RC Slab</p>
<p>W-08 2 CM Tiles and Glue Water Proofing 60 CM High 10 CM Brick Wall 2 CM plaster Finish</p>	<p>W-09 1.2 CM Stone Panel 5 CM Air Gap 20 CM Thermal Insulation Mineral Wool 20 CM RC wall 10 CM Thermal Insulation</p>						<p>F-08 5 CM Stone Floor 10 CM Concrete Screed 2% slope 25 CM Gravel Rubble Compacted Soil</p>						



Legend

Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	Waterproofing	Compacted Soil	Tiles	Driange Sheet
Concrete	Thermal Insulation XPS	Gavel	Plastic // Sealent	Plywood



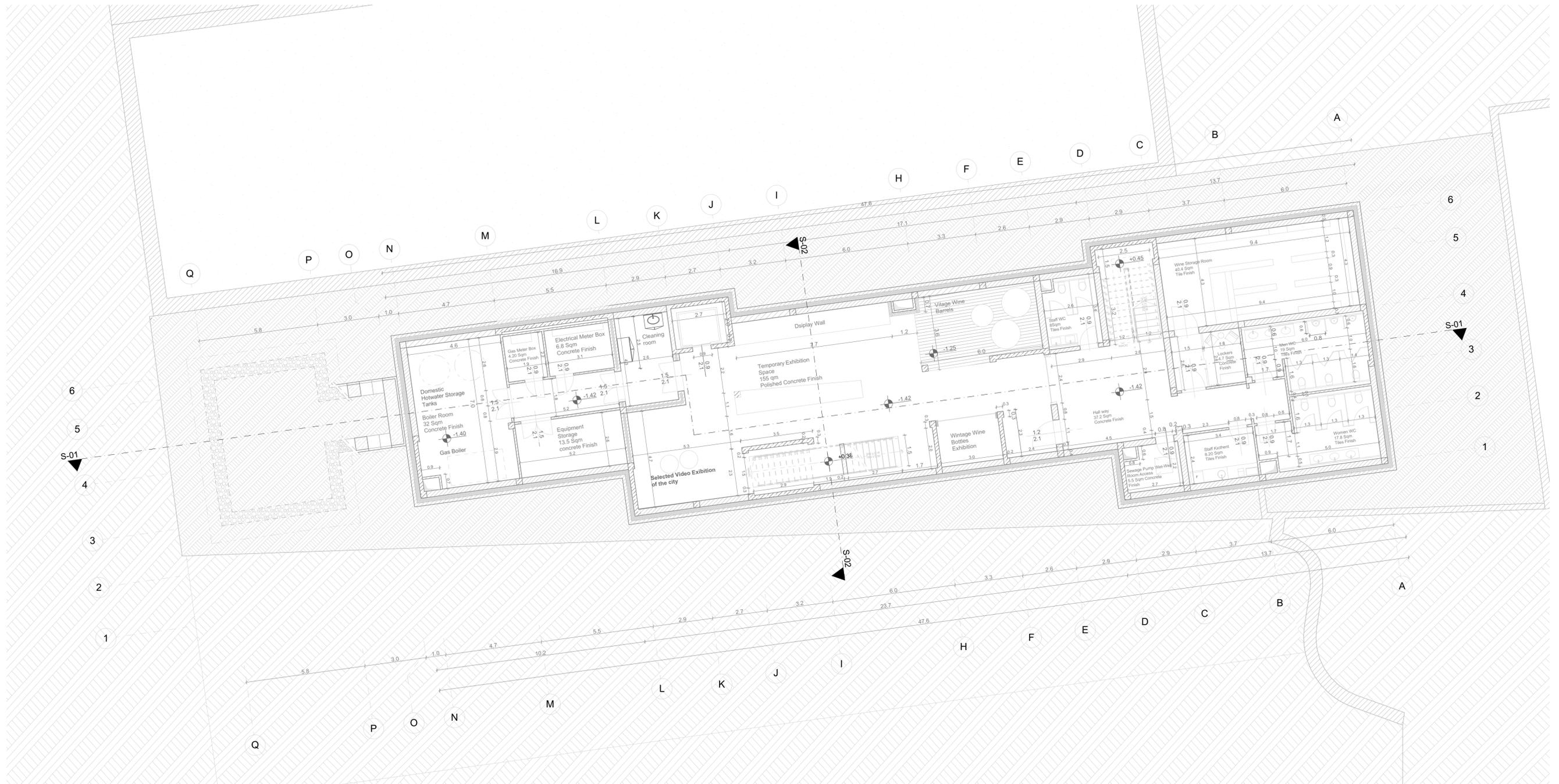
Building Layers

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Legend

Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	Waterproofing	Compacted Soil	Tiles	Drriage Sheet
Concrete	Thermal Insulation XPS	Gavel	Plastic // Sealent	Plywood

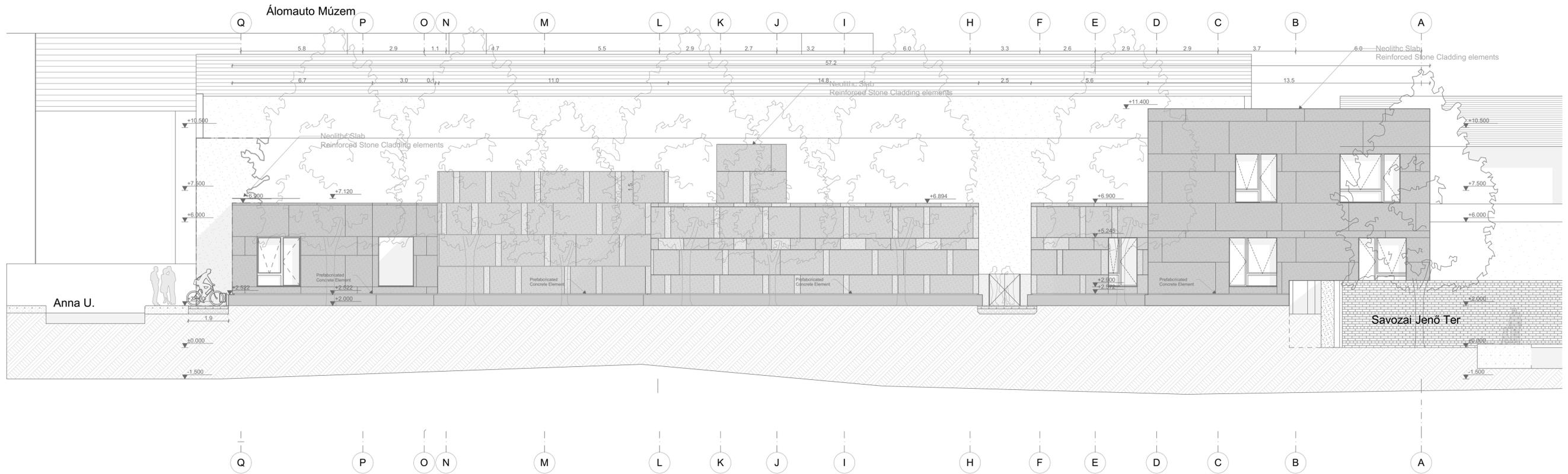


Building Layers

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Legend

Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	WaterProofing	Compacted Soil	Tiles	Drriage Sheet
Concrete	Thermal Insulation XPS	Gavel	Plastic // Sealent	Plywood



Building Layers

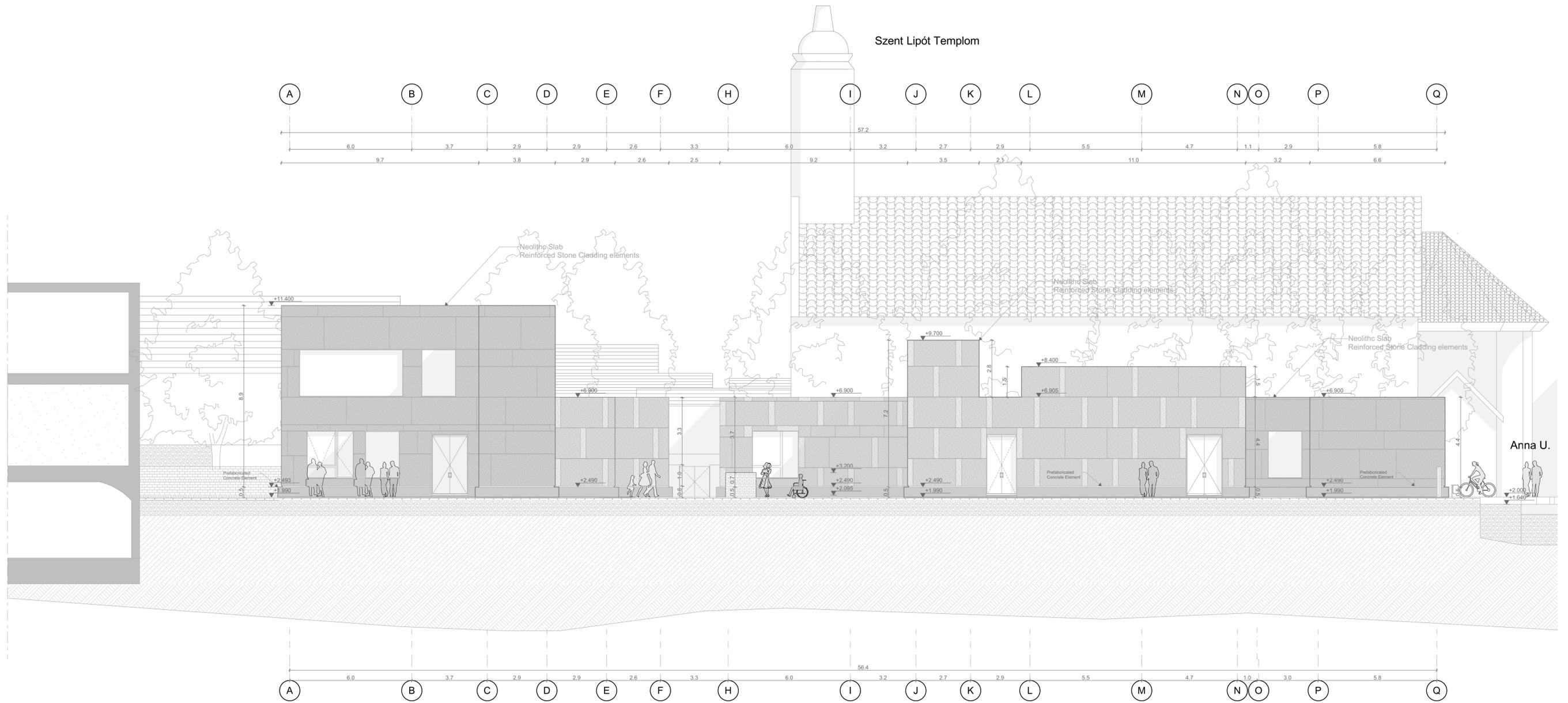
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Legend

Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	WaterProofing	Compacted Soil	Tiles	Driange Sheet
Concrete	Thermal Insulation XPS	Gavel	Plastic // Sealent	Plywood

Szent Lipót Templom



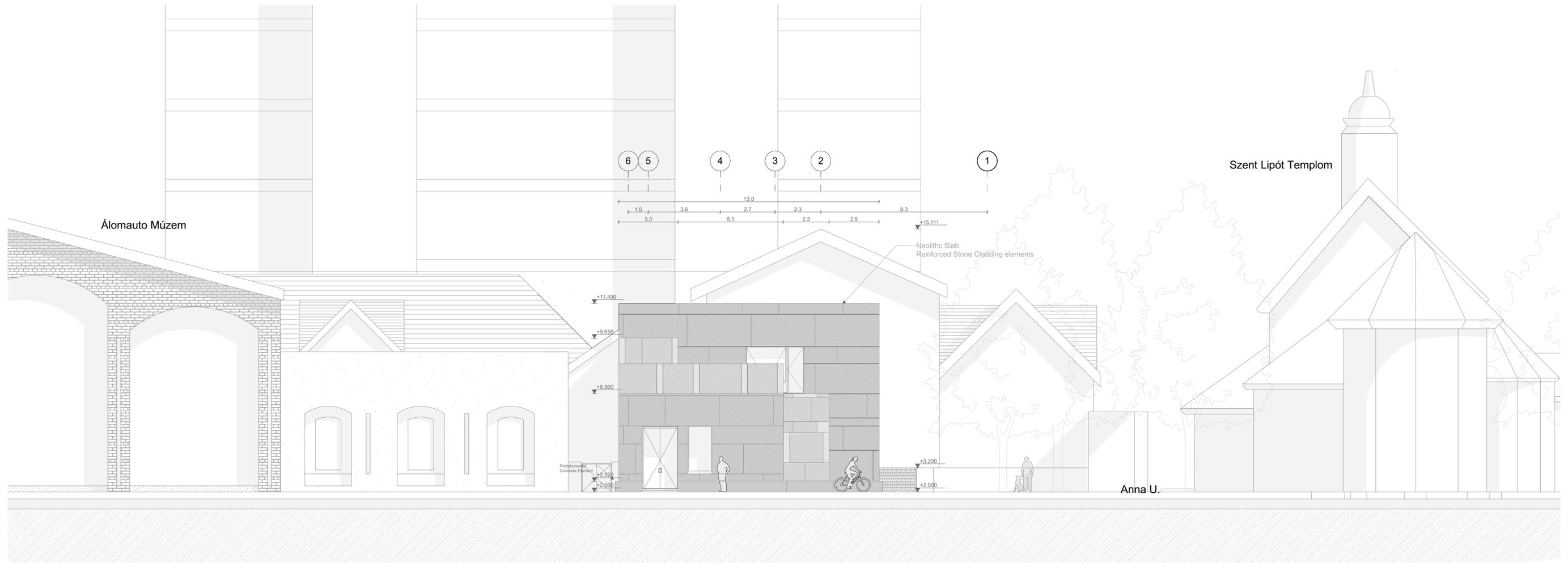
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Legend

Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	Waterproofing	Compacted Soil	Tiles	Driange Sheet
Concrete	Thermal Insulation XPS	Gavel	Plastic // Sealent	Plywood



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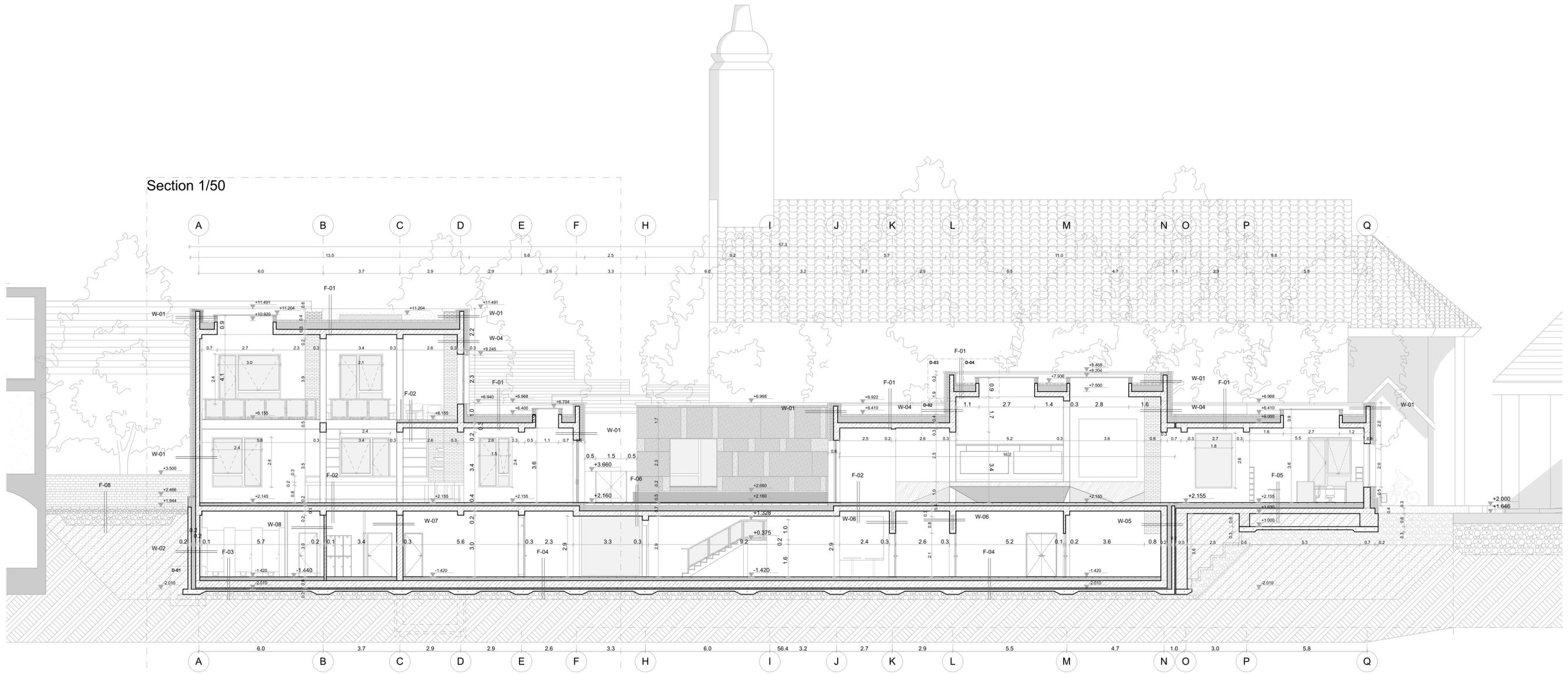
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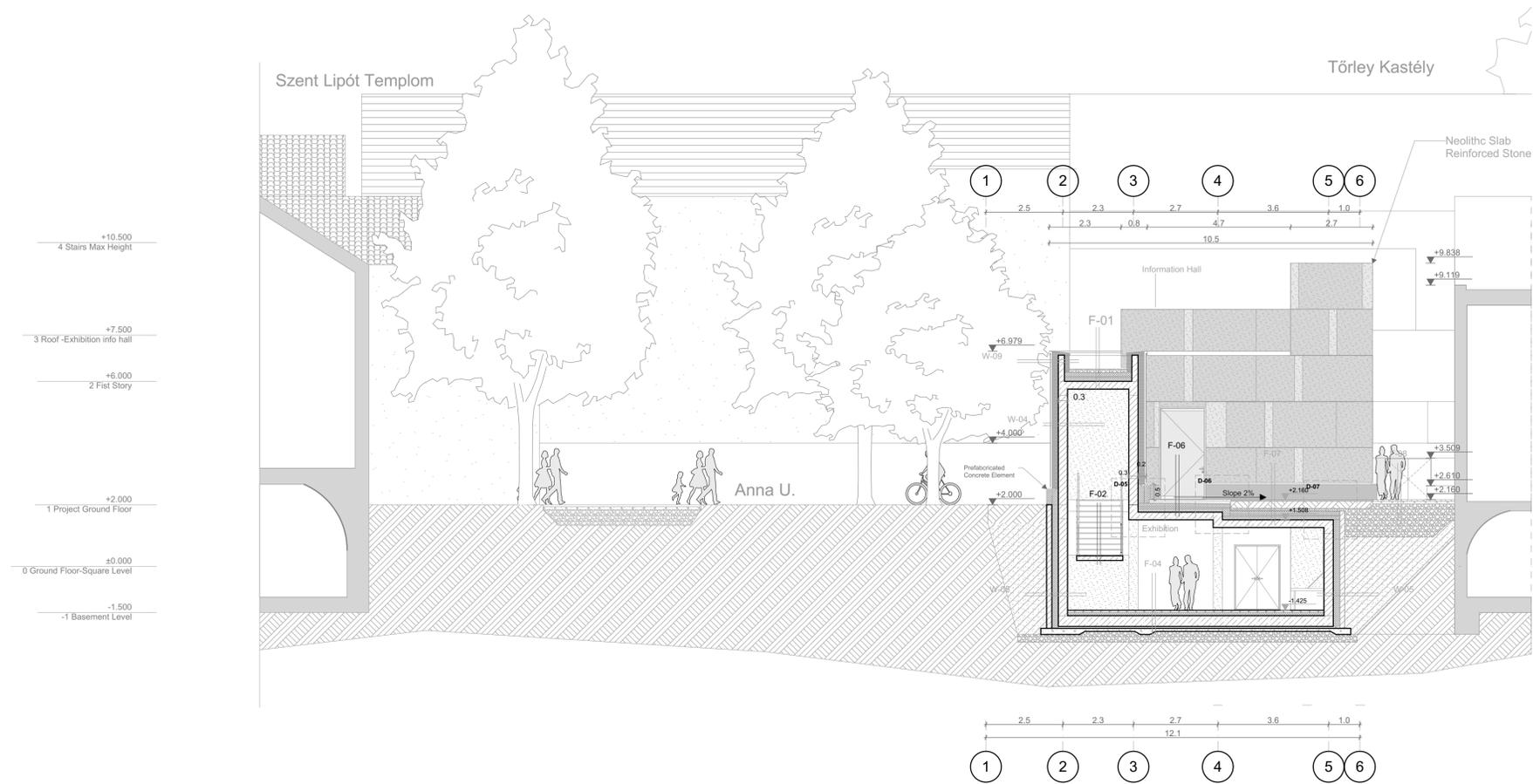
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Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	WaterProofing	Compacted Soil	Tiles	Driange Sheet
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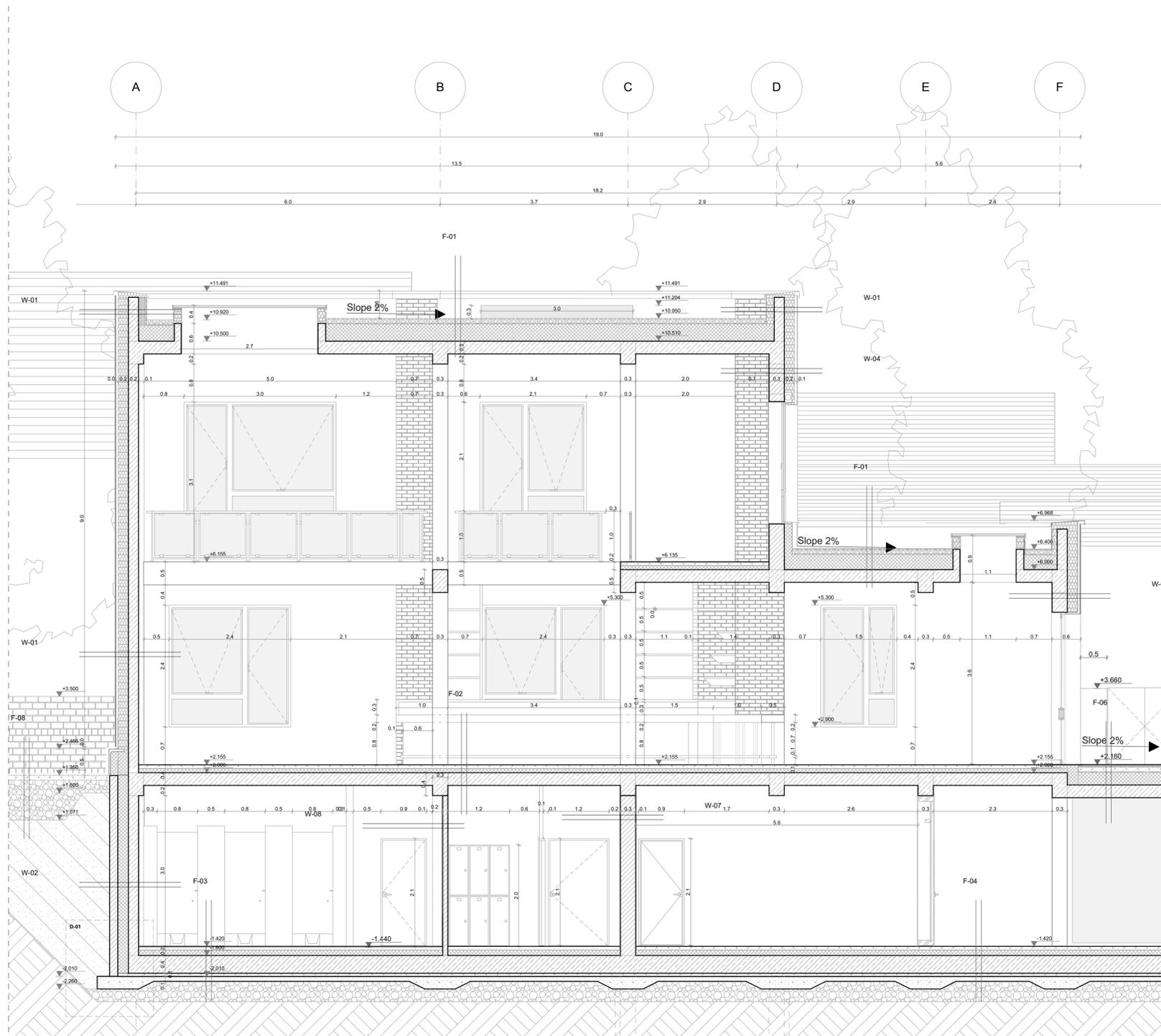
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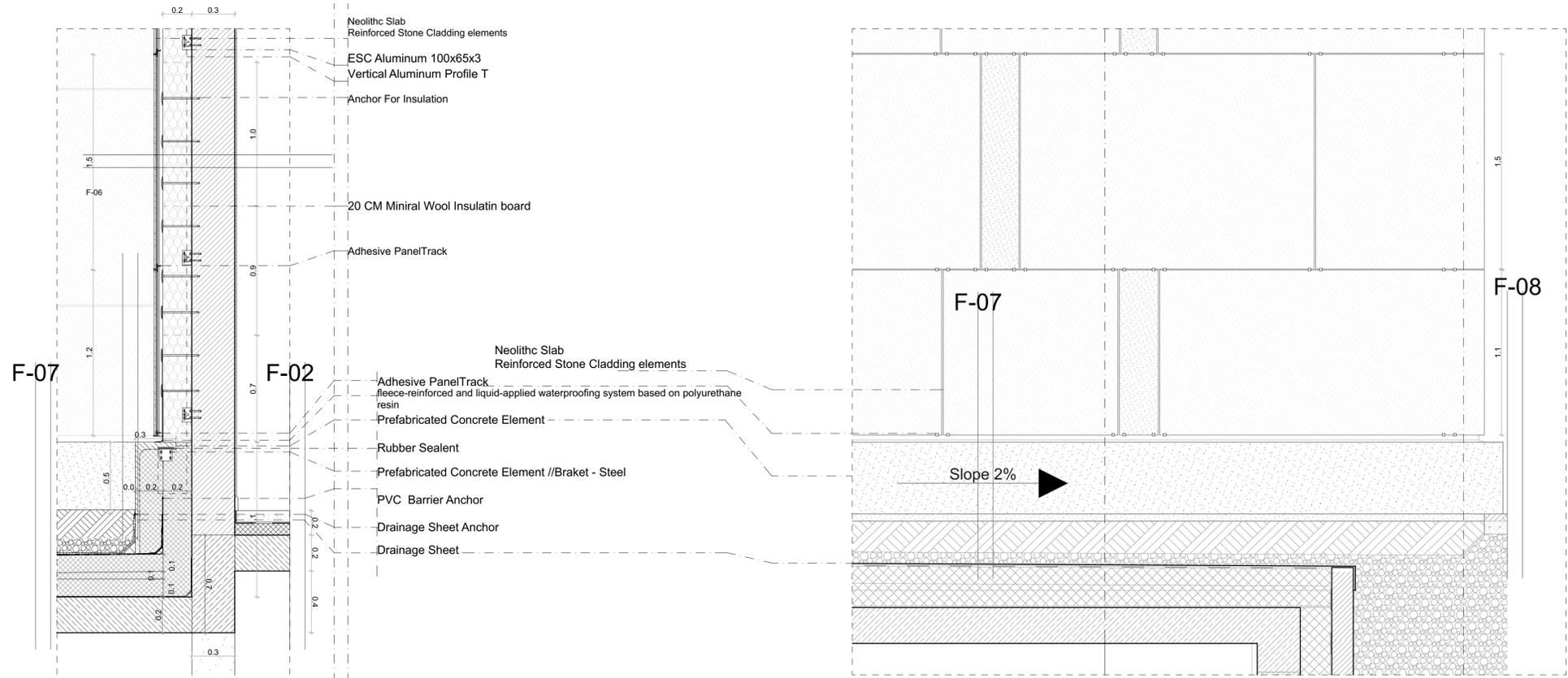
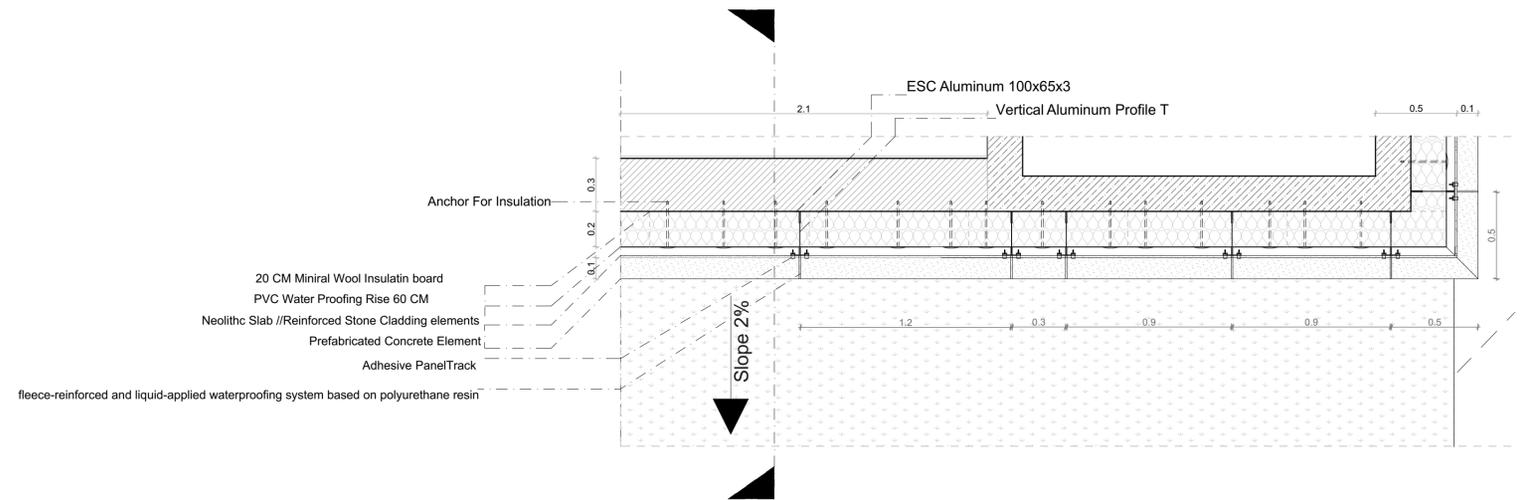
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Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
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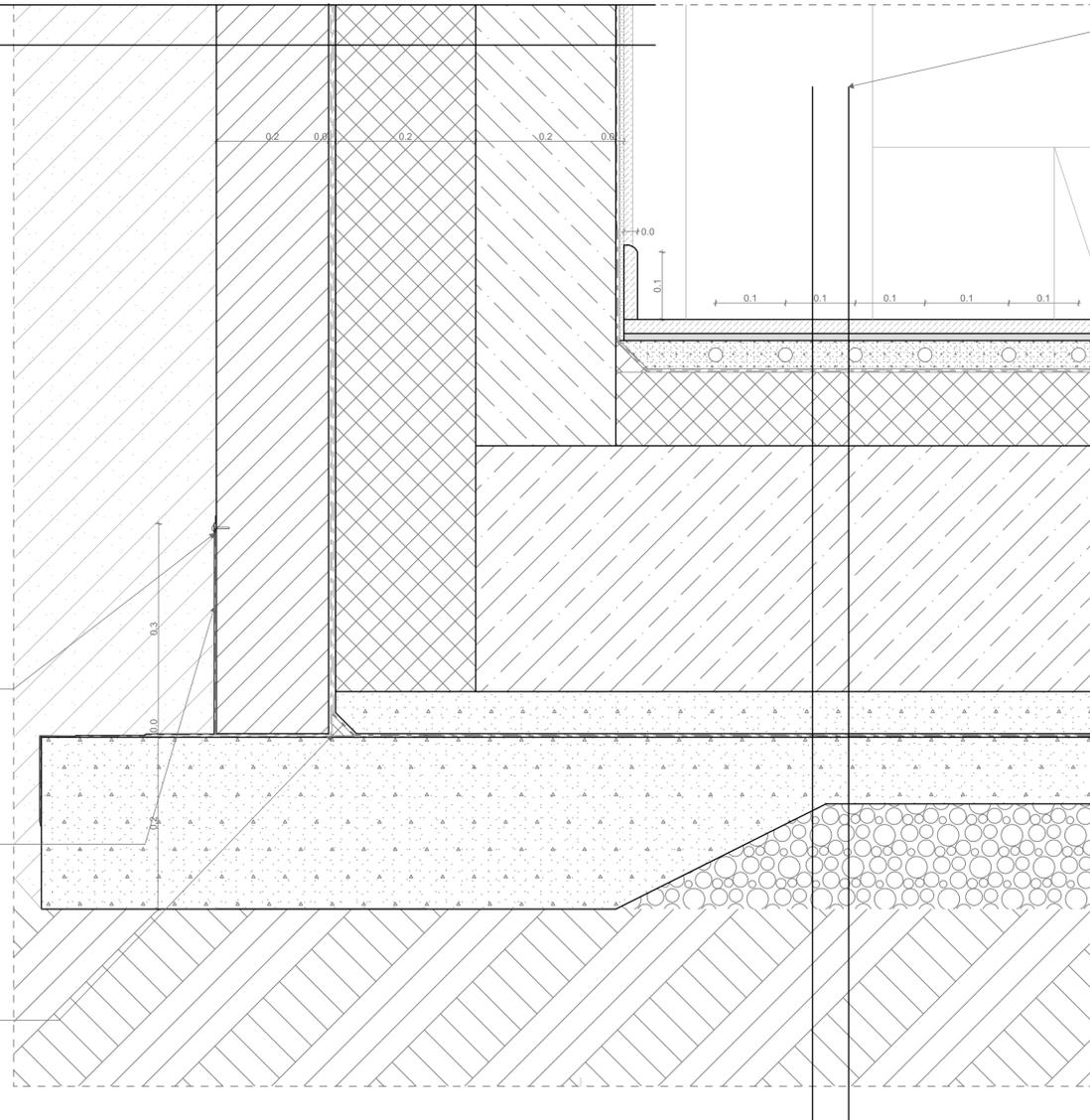
D-01

W-02

15 CM Thermal Brick
 Bisemous Water Proofing
 20 CM Thermal Insulation
 20 CM RC Wall
 Waterproofing
 2 CM tiles and Glues

F-03

2CM Tiles and Glue Screed
 Water Proofing
 8CM Sound Insulation
 35 RC- Slab Foundation
 10 CM Concrete
 PVC Water Proofing
 15 CM concrete
 25 CM gravel
 Compacted Soil



L -shape Steel Elements
 Fixing Mechanical Fixation

Fesile // Fibre Glass
 Protection Layer
 140g/M

Corrner XPS elements
 Supporting PCV layers

Building Layers ////////////////

<p>W-01 1.2 CM Stone Panel 5 CM Air Gap 20 CM Thermal Insulation Mineral Wool 20 CM RC wall</p>	<p>W-02 15 CM Thermal Brick Bisemous Water Proofing 20 CM Thermal Insulation 20 CM RC Wall Waterproofing 2 CM tiles and Glues</p>	<p>W-03 2 Finish- Plaster and Paint 30 CM Insulated brick 2 CM Finish - Plaster and Paint</p>	<p>W-04 1.2 CM Reinforced Stone Panel 5 CM airgap 20 CM Thermal Insulation 30 Brick 2 CM Plaster Finish</p>	<p>W-05 15 CM Thermal Bick Wall Bitinomos Water Proofing 20 CM Thermal Insulation XPS 30 CM Brick Wall 2 CM Plater finish</p>	<p>W-06 2 CM Plaster Finish 10 CM Brick 10 CM Sound Insulation 10 CM Brick 2 CM plaster Finish</p>	<p>W-07 2 CM Plaster Finish 30 CM Thermal Brick 2 CM plaster Finish</p>	<p>F-01 10 CM gravel PVC Water Proofing// Fesile 25 CM EPS boards Thermal Insulation 2% slope Vapour Barrier 25 CM reinforced Concrete Slab</p>	<p>F-02 8 CM concrete Floor with Polished Finish Water Proofing 8 CM Soind Insulation 25 CM RC slab</p>	<p>F-03 2CM Tiles and Glue Screed Water Proofing 8CM Sound Insulation 35 RC- Slab Foundation 10 CM Concrete PVC Water Proofing 15 CM concrete 25 CM gravel Compacted Soil</p>	<p>F-04 8CM Concrete Floor Water Proofing 8 CM Sound Insulation 35 CM RC slab 10 CM concrete PVC Water Proofing 15 CM concrete 25 CM Rubble Compacted Soil</p>	<p>F-05 8 CM concrete Floor PVC Water Proofing 10 CM Thermal Insulation PVC Water proofing 20 CM RC Slab Rubble Compacted Soil</p>	<p>F-06 5 CM Stone Flooring 9 CM Concrete Screed Drainage layer PVC Water proofing and Fesile layer 25 CM EPS Thermal Insulation 2% Slope Vapour Barrier 25 CM RC slab</p>	<p>F-07 40 CM Soil // Plants Drainage Layer PVC water proofing // Fesole protection layer 25 CM EPS Thermal Insulation 2% Slope Vapour Barrier 25 CM Slab</p>
<p>W-08 2 CM Tiles and Glue Water Proofing 60 CM High 10 CM Brick Wall 2 CM plaster Finish</p>	<p>W-09 1.2 CM Stone Panel 5 CM Air Gap 20 CM Thermal Insulation Mineral Wool 20 CM RC wall 10 CM Thermal Insulation</p>						<p>F-08 5 CM Stone Floor 10 CM Concrete Screed 2% slope 25 CM Gravel Rubble Compacted Soil</p>						

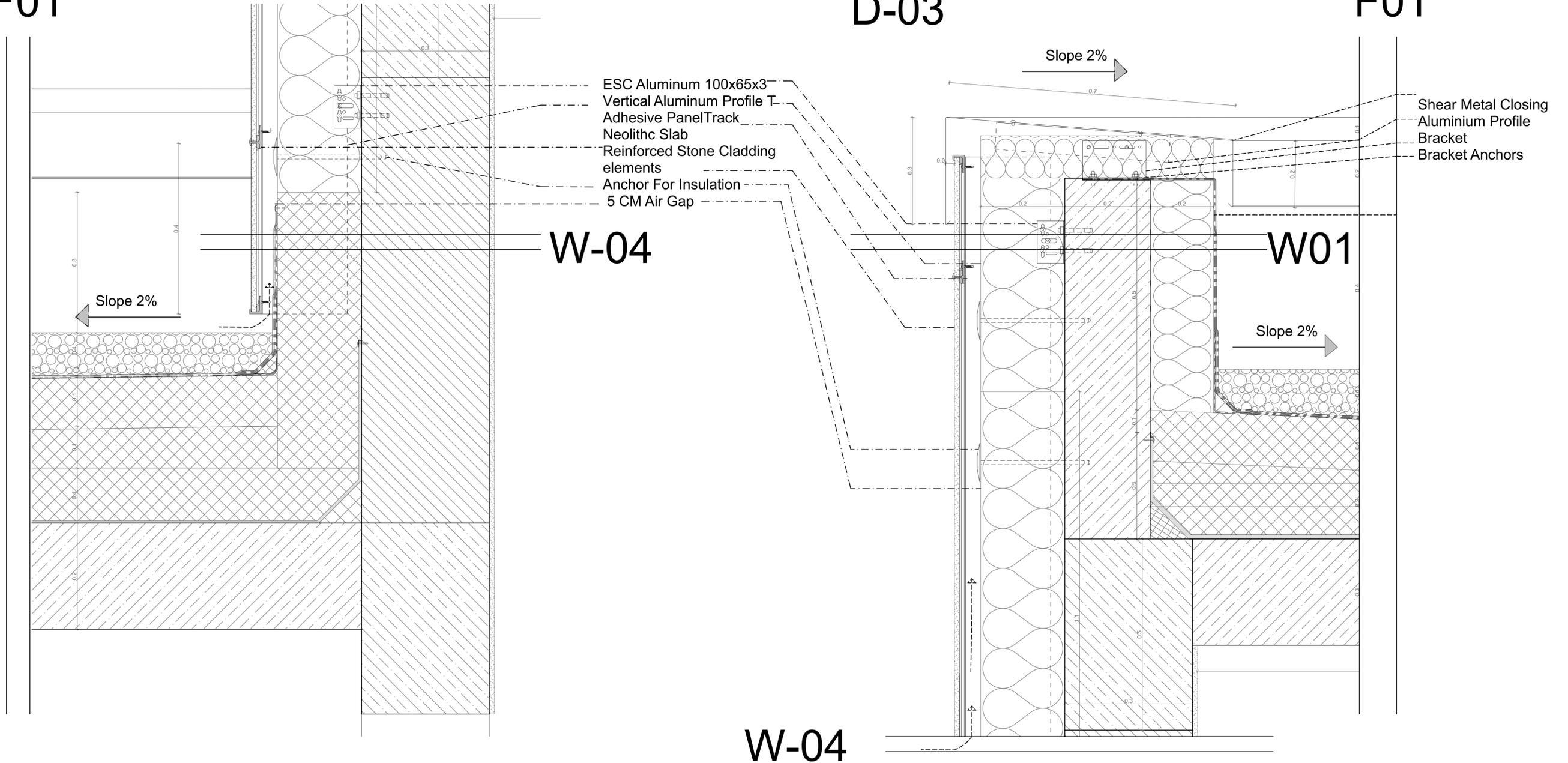


D-02

F01

D-03

F01



Building Layers

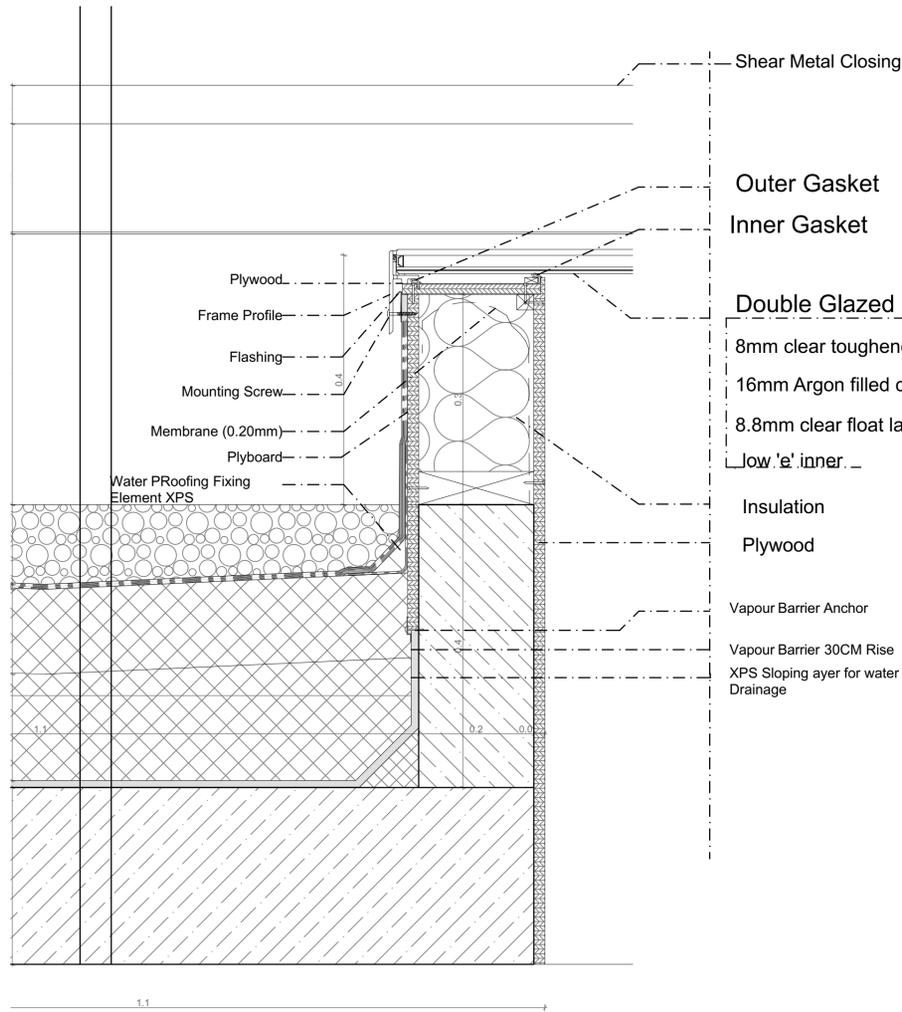
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Legend

Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	Waterproofing	Compacted Soil	Tiles	Driange Sheet
Concrete	Thermal Insulation XPS	Gavel	Plastic // Sealent	Plywood

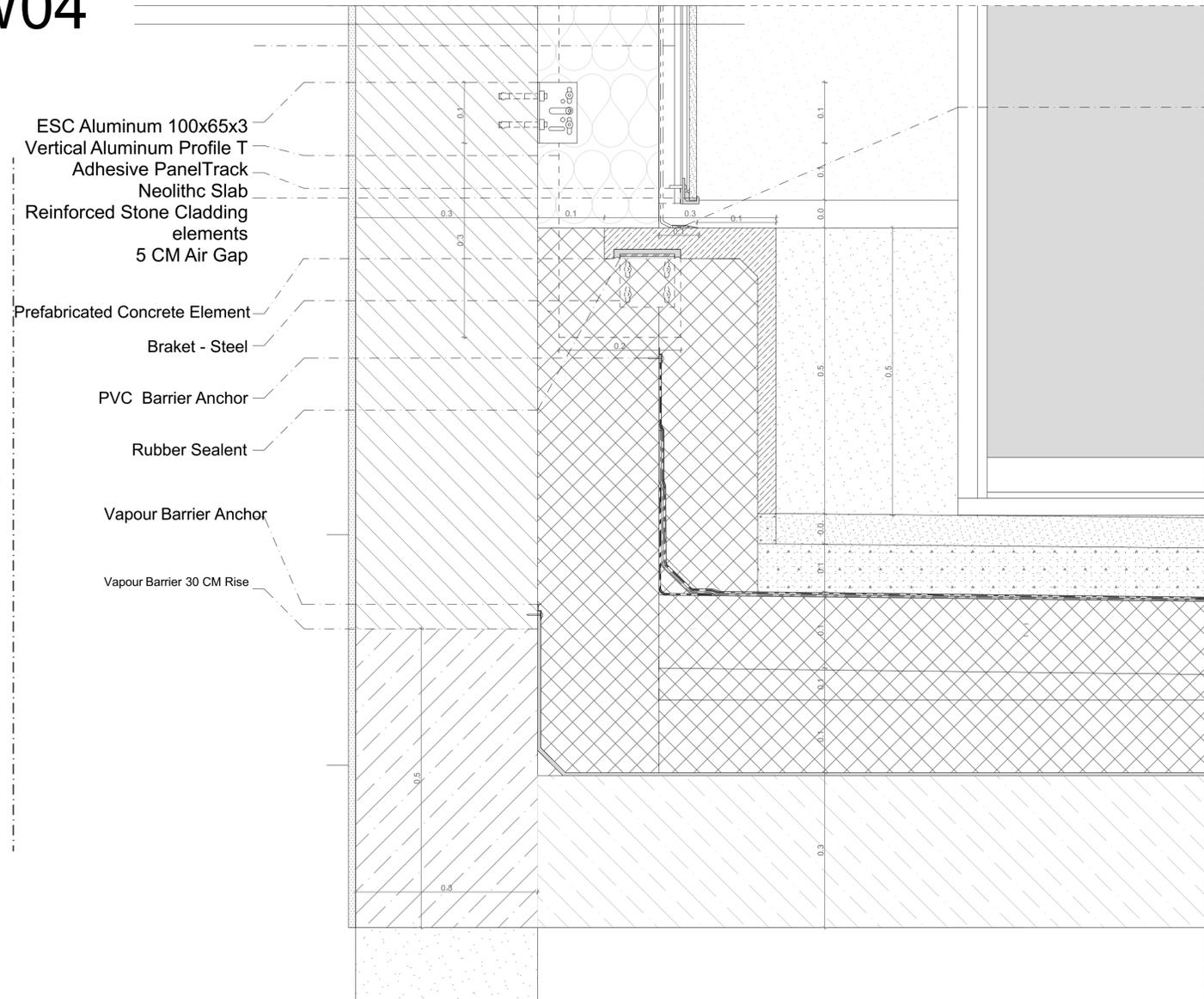
D-04

F01



W04

D-05



fleece-reinforced and liquid-applied waterproofing system based on polyurethane resin

F06

Building Layers

<p>W-01 1.2 CM Stone Panel 5 CM Air Gap 20 CM Thermal Insulation Mineral Wool 20 CM RC wall</p>	<p>W-02 15 CM Thermal Brick Bisemous Water Proofing 20 CM Thermal Insulation 20 CM RC Wall Waterproofing 2 CM tiles and Glues</p>	<p>W-03 2 Finish- Plaster and Paint 30 CM Insulated brick 2 CM Finish - Plaster and Paint</p>	<p>W-04 1.2 CM Reinforced Stone Panel 5 CM airgap 20 CM Thermal Insulation 30 CM Brick 2 CM Plaster Finish</p>	<p>W-05 15 CM Thermal Bick Wall Bitinomos Water Proofing 20 CM Thermal Insulation XPS 30 CM Brick Wall 2 CM Plater finish</p>	<p>W-06 2 CM Plaster Finish 10 CM Brick 10 CM Sound Insulation 10 CM Brick 2 CM plaster Finish</p>	<p>W-07 2 CM Plaster Finish 30 CM Thermal Brick 2 CM plaster Finish</p>	<p>F-01 10 CM gravel PVC Water Proofing// Fesile 25 CM EPS boards Thermal Insulation 2% slope 8 CM RC reinforced Concrete Slab</p>	<p>F-02 8 CM concrete Floor with Polished Finish Water Proofing 8 CM Soind Insulation 25 CM RC slab</p>	<p>F-03 2CM Tiles and Glue Screed Water Proofing 8CM Sound Insulation 35 RC- Slab Foundation 10 CM Concrete PVC Water Proofing 15 CM concrete 25 CM gravel Compacted Soil</p>	<p>F-04 8CM Concrete Floor Water Proofing 8 CM Sound Insulation 35 CM RC slab 10 CM concrete PVC Water Proofing 15 CM Concrete 25 CM Rubble Compacted Soil</p>	<p>F-05 8 CM concrete Floor PVC Water Proofing 10 CM Thermal Insulation PVC Water proofing and Fesile layer 20 CM RC Slab Rubble Compacted Soil</p>	<p>F-06 5 CM Stone Flooring 9 CM Concrete Screed Drainage layer PVC Water proofing and Fesile layer 25 CM EPS Thermal Insulation 2% Slope Vapour Barrier 25 CM RC slab</p>	<p>F-07 40 CM Soil // Plants Drainage Layer PVC water proofing // Fesole protection layer 25 CM EPS Thermal Insulation 2% Slope Vapour Barrier 25 RC Slab</p>
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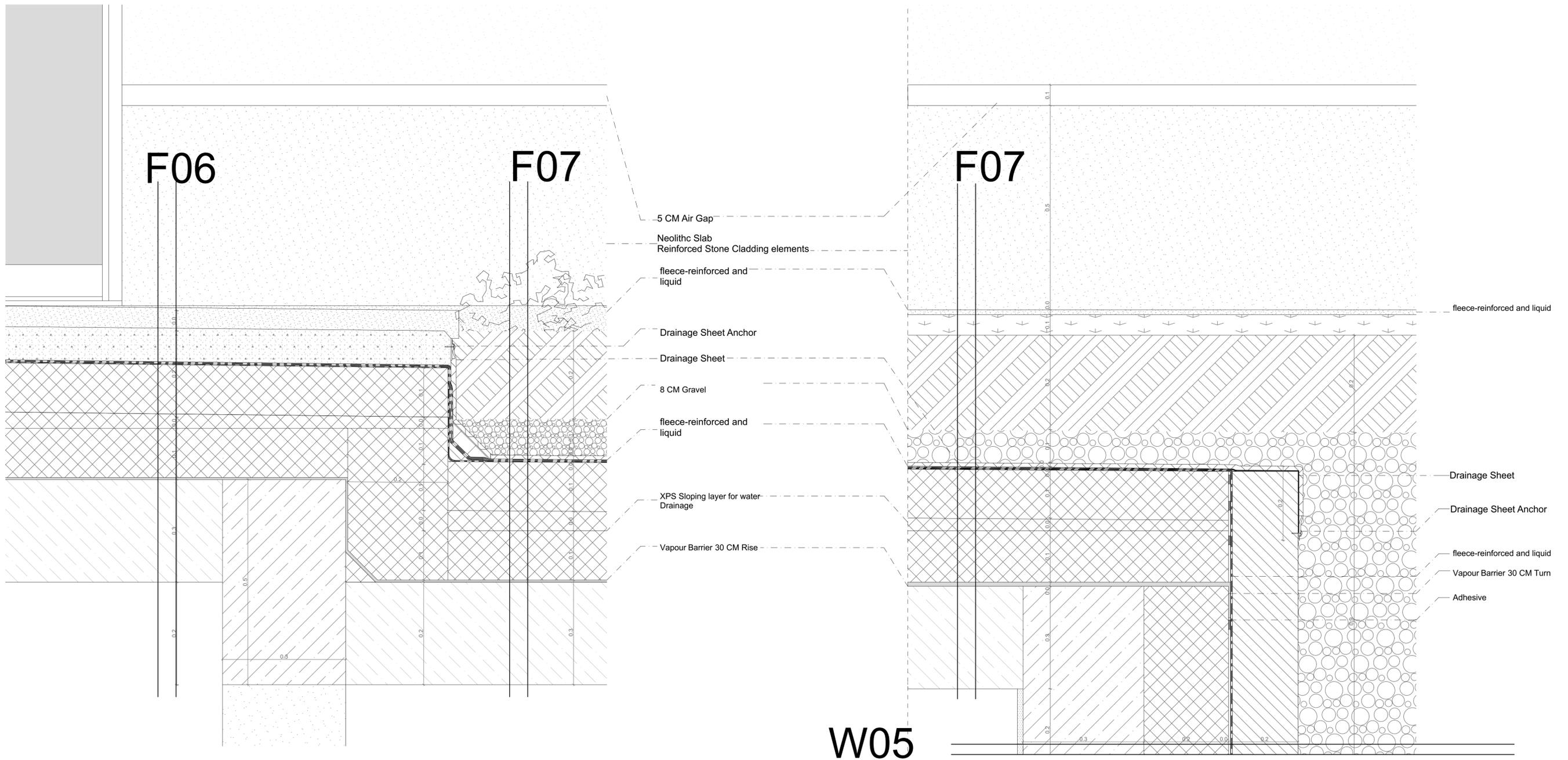


Legend

Reinforced Concrete	Stone Cladding	Sound Insulation	Rubble	fleece-reinforced and liquid
Brick	Waterproofing	Compacted Soil	Tiles	Driange Sheet
Concrete	Thermal Insulation XPS	Gavel	Plastic // Sealent	Plywood

D06

D07



Building Layers

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