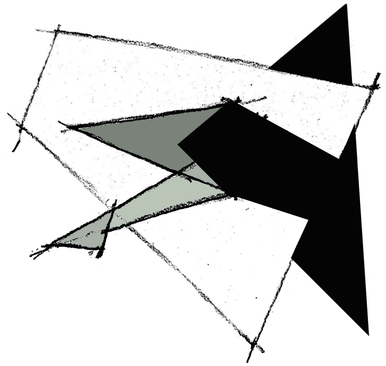
Merging Urban Layers

Budafok Community Gathering



The Budafoki region is composed of a complex organization of urban layers, mixing results from historical processes with the natural contemporary expansion of the city. The Merging Urban Layers - Budafok Community Gathering project is located in the heart of this context, and is therefore an important spatial articulating element.

The proposed building for this Diploma project is a key element for the spatial organization of the region. This square is currently the core of services and transportation and is therefore cut by the main axis of connectors in the area.

Abdalah, Haithem Mohammad Fayiz
Budafok Cultural Point

Delgado da Silva, Bárbara Mylena
The Green House

Kasatkina, Karina
School of Music Elevate

Silva Dantas, Gabriel - Merging Urban layers, Budafok Community Gathering

Al Zoubi, Raghad
Budafok, Children's day care centre

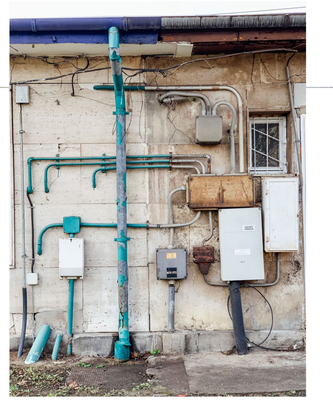
Almelhem, Saba Samir
Budafok Coworking

01 - Mixed use area: mostly residential, with except Kossuth Lajos and Mária Terézia streets.

02 - important connecting axes of the city of Budapest: highway 06 and train lines

03 - Riverside: bike path and linear park

04 - visual connection to the industrial zone



Design Overview

The proposal for requalification for the Városház square is based on a broad intervention project designed for the Budafok region. This network of new buildings has been roposed according to the scale, needs and characteristic flow of the place. A system of shared sidewalks and other elements of public infrastructure will connect the entire intervention, prioritizing the pedestrian experience and the reorganization of traffic, especially with regard to public transportation lines.

A significant change in traffic planned for the area directly impacts the design decisions for Városház tér: Kossuth Lajos Street will become a major promenade for pedestrians, while the traffic will be concentrated on Mária Terézia Street, what motivated the tram stop redesign as well - also in aesthetic harmony with the proposed building. Furthermore, taking into account an existing project to emphasize the connection between the Városház square and the Budafoki Szomszédok Piaca, this street was also especially included in the general considerations in the urban context.

The idea is to demolish the building currently existing on the site and give a new meaning to it, maintaining and increasing its program. Basically, the new building will serve three main functions: an office for the public transport company (BKK), a room for community use and a coffee shop (since the street food trade is suits very well to the local situation - high flow of people in a short time space.

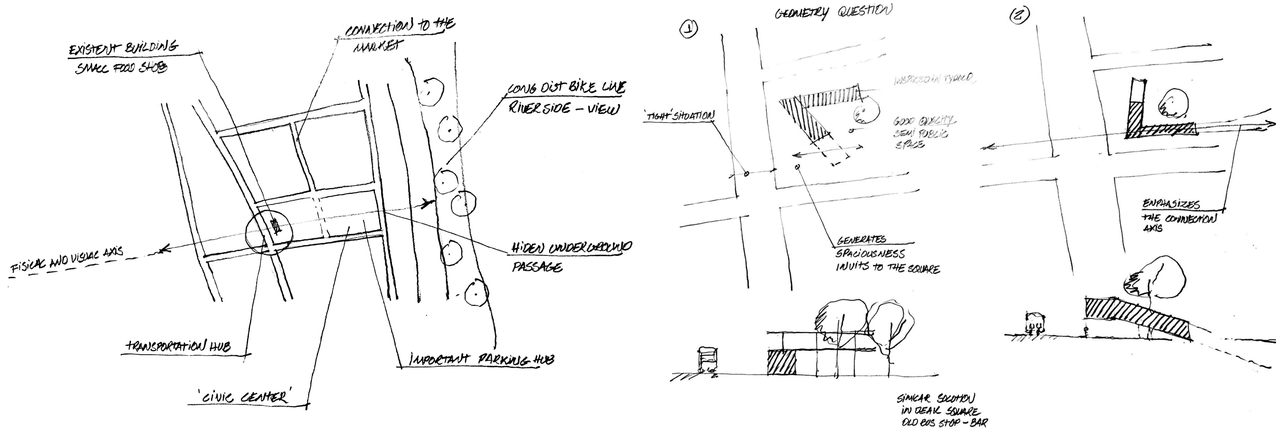
The functions are separated into three well-defined nuclei - which is reflected directly in the spatial articulation of the building conceptually and structurally. Symbolically, the building has the important function of representing a gateway to the axis that connects the Danube to the interior of the district, in addition to being a prominent element in the landscape, strategically positioned in the heart of this civic center, in front of imposing public buildings.

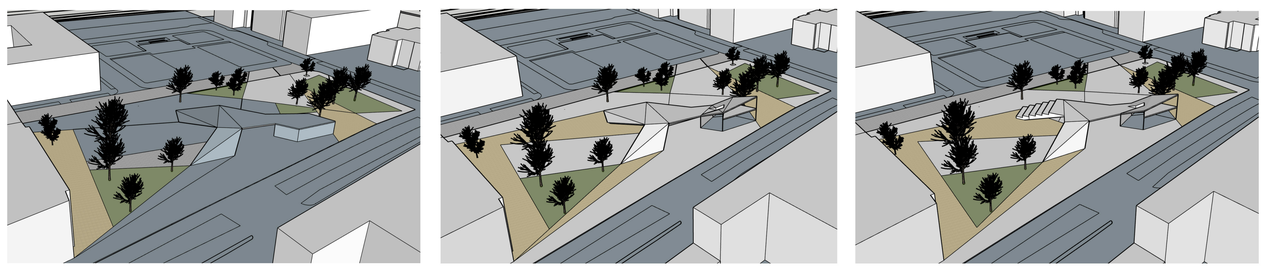
The building's design goes beyond the spatial organization considerations of its immediate surroundings, but in reality, the context is the main modeling element of it. Aesthetically, the architectural elements in the horizontal plane were designed to give the idea of continuity, while the nuclei where the functions are contained, are beacons of the natural flow in the area.

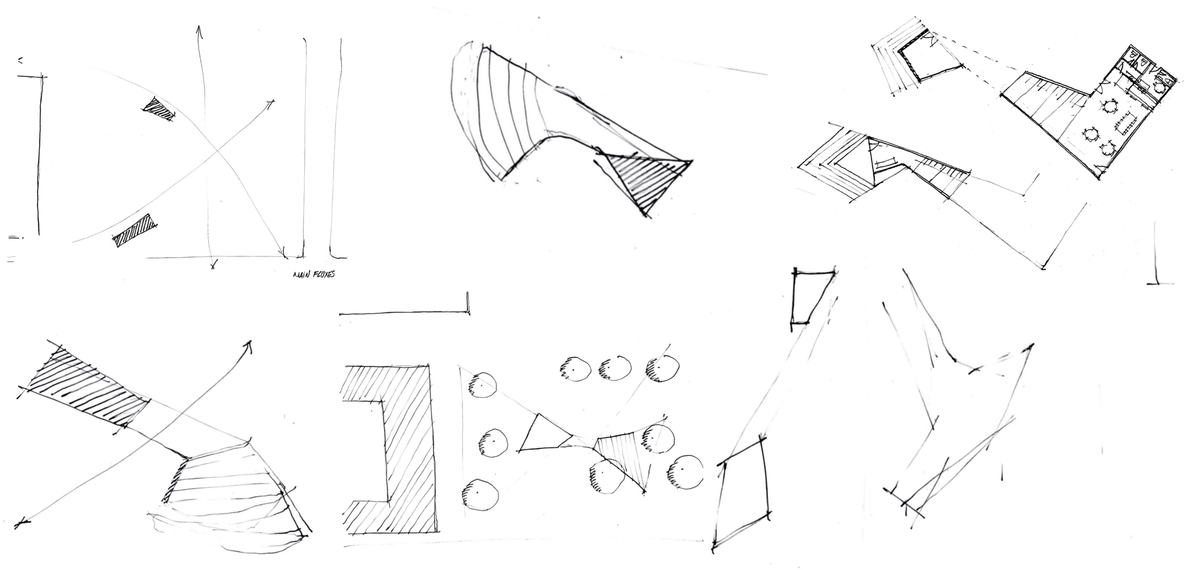
Although it does not function structurally as a shell, conceptually this analogy can be adopted, since the idea is to promote visual continuity, shelter internal activities and create different layers of use for the building, including on its public terrace at different levels.

The materiality of the building is in alignment with the general concept, and in this way, it aims to accentuate the notion of continuity and promote the formal unity of the building. The ramp covered by grass is an extension of the garden that surrounds the building. The pavement has the objective of demarcating the different areas of use of the square, mainly delimiting the areas of main, secondary and permanence flow (rest, leisure and stage areas).

Spatially, the organization created was able to clearly define the areas of private use (nuclei), semi-public (between) and public (above and around).







Dsign process

IMPLANTATION
SCALE: 1/200

W01 | 1cm INTERNAL PLASTERING
20 cm RC WALL
15cm XPS THERMAL INSULATION
4cm AIR GAP
3cm OKO FACADE PANEL

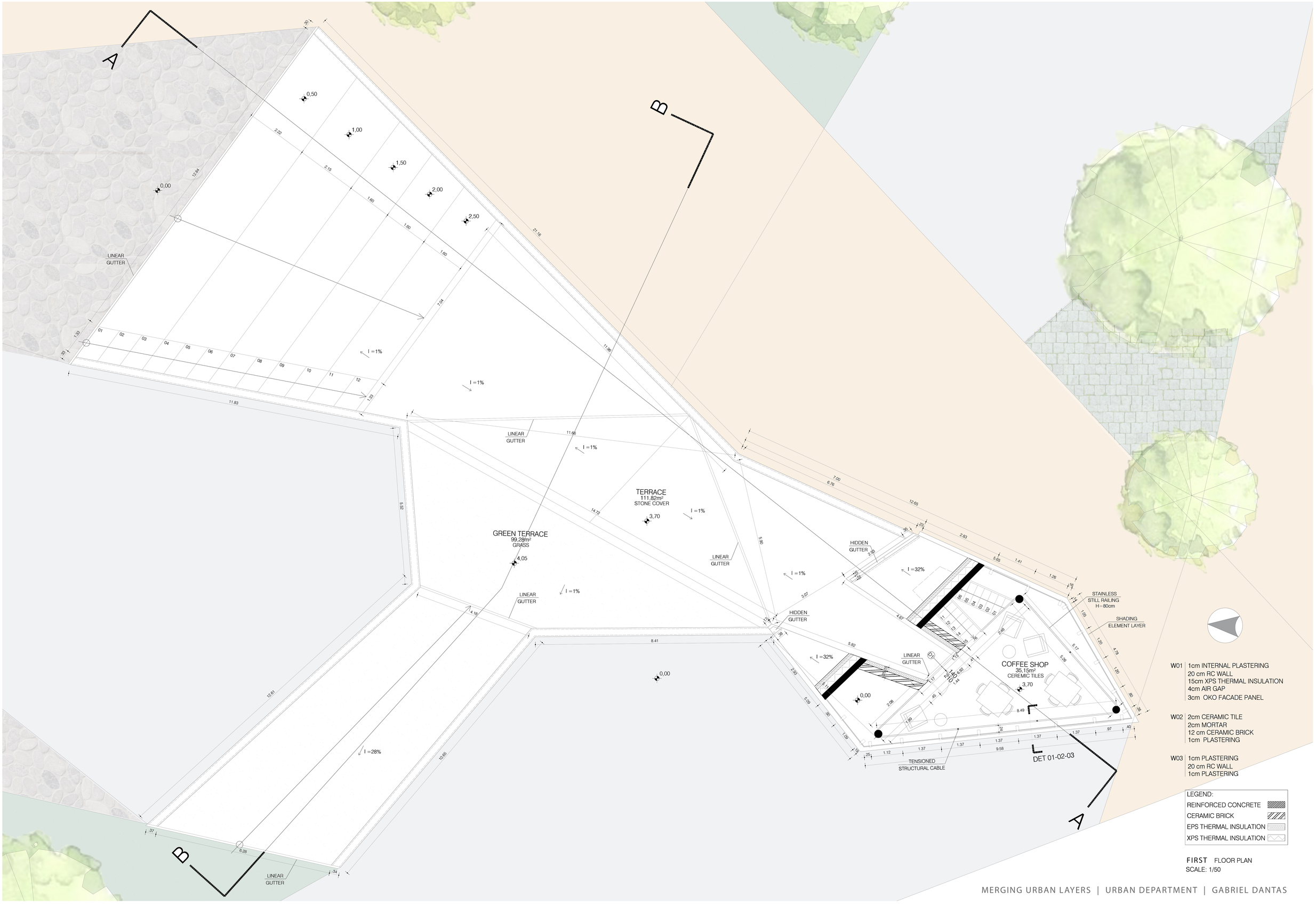
W02 | 2cm CERAMIC TILE
2cm MORTAR
12 cm CERAMIC BRICK
1cm PLASTERING

W03 | 1cm PLASTERING
20 cm RC WALL
1cm PLASTERING

LEGEND:
REINFORCED CONCRETE
CERAMIC BRICK
EPS THERMAL INSULATION
XPS THERMAL INSULATION

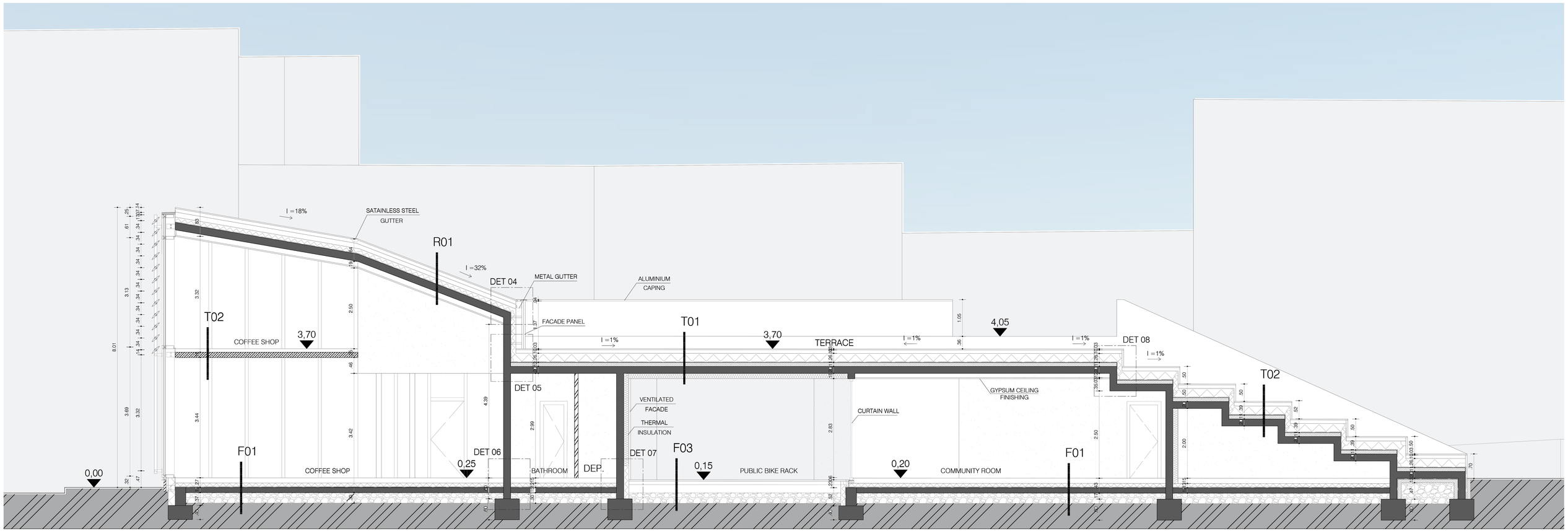
GROUND FLOOR PLAN
SCALE: 1/50

MERGING URBAN LAYERS | URBAN DEPARTMENT | GABRIEL DANTAS



FIRST FLOOR PLAN
SCALE: 1/50

MERGING URBAN LAYERS | URBAN DEPARTMENT | GABRIEL DANTAS



T01
3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

T02
3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

G01
3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

G01
3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

R01
3m FACADE/ROOF PANEL
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER WATERPROOFING
20 cm IN-SITU RC. SLAB
PLASTERING

F01
2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
1 LAYER PE FOIL
10cm TERMAL INSULATION (XPS)
1 LAYER PVC WATERPROOFING
15cm CONCRETE SCREED
30cm GRAVEL BED

F03
4cm CONCRETE BLOCKS FLOORING
10cm SAND BED
30 cm GRIT LAYER
30 cm GRAVEL BED

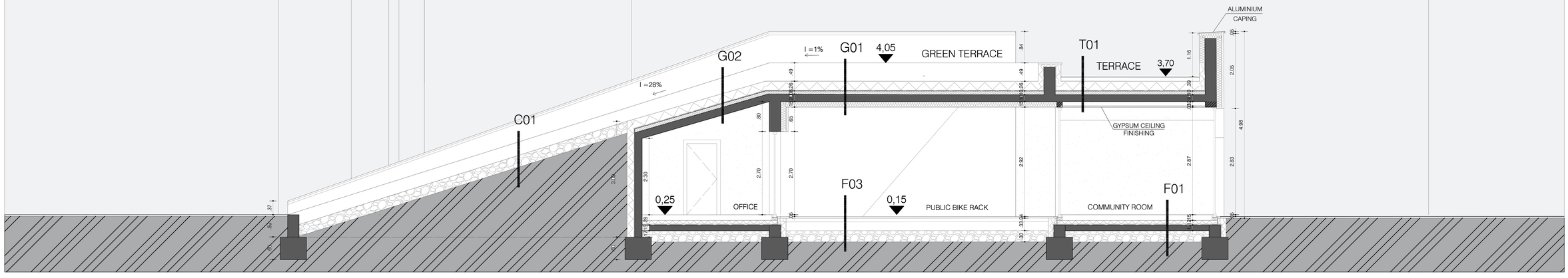
F02
2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm RC SLAB
PLASTERING

S01
2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm REINFORCED CONCRETE SLAB
1cm PLASTERING

C01
3m VEGETATION
20cm SOIL
30 cm GRAVEL BED

LEGEND:
REINFORCED CONCRETE
CERAMIC BRICK
EPS THERMAL INSULATION
XPS THERMAL INSULATION

SECTION AA
SCALE: 1/50



SECTION BB
SCALE: 1/50

T01
3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

T02
3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

G01
3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

G01
3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

R01
3m FACADE/ROOF PANEL
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER WATERPROOFING
20 cm IN-SITU RC. SLAB
PLASTERING

F01
2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
1 LAYER PE FOIL
10cm TERMAL INSULATION (XPS)
1 LAYER PVC WATERPROOFING
15cm CONCRETE SCREED
30cm GRAVEL BED

F03
4cm CONCRETE BLOCKS FLOORING
10cm SAND BED
30 cm GRIT LAYER
30 cm GRAVEL BED

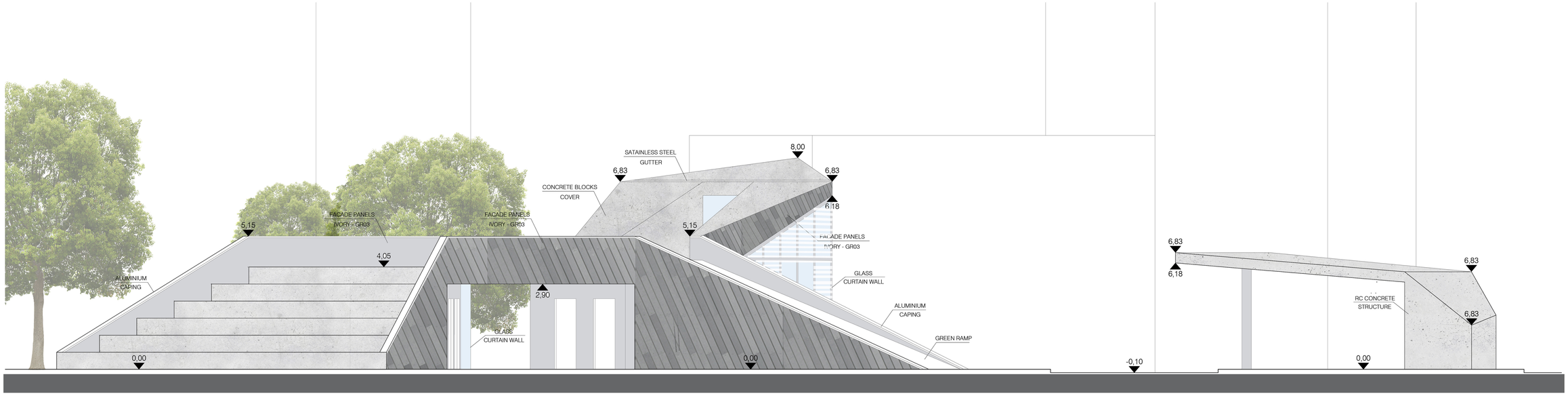
F02
2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm RC SLAB
PLASTERING

S01
2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm REINFORCED CONCRETE SLAB
1cm PLASTERING

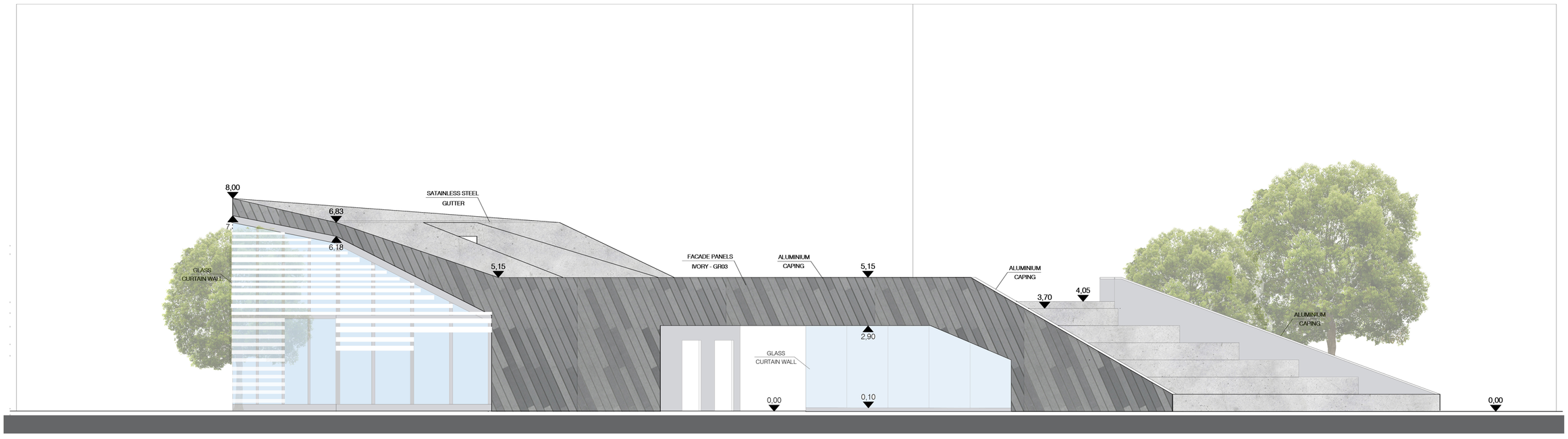
C01
3m VEGETATION
20cm SOIL
30 cm GRAVEL BED

LEGEND:
REINFORCED CONCRETE
CERAMIC BRICK
EPS THERMAL INSULATION
XPS THERMAL INSULATION

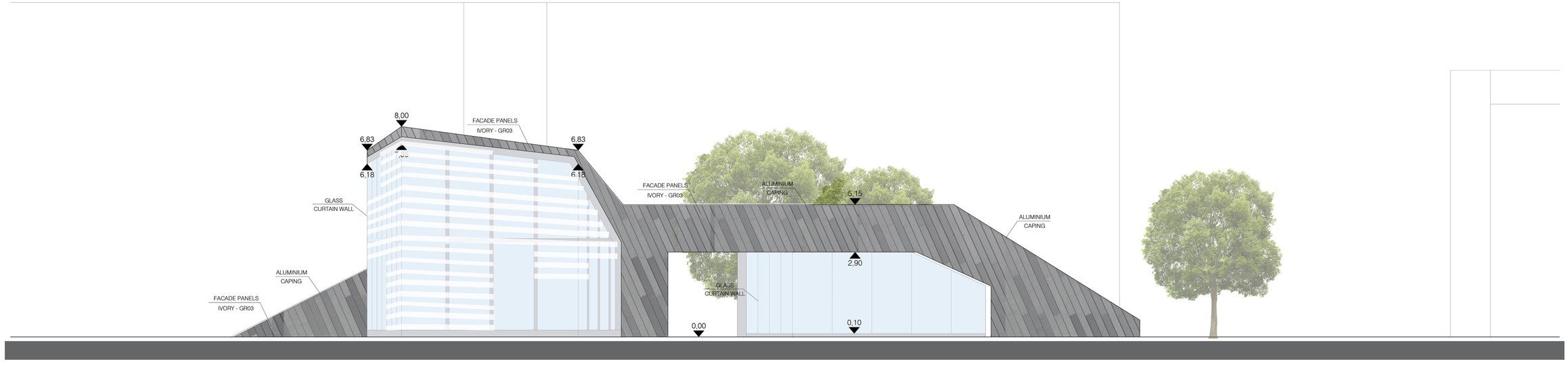
SECTION AA
SCALE: 1/50



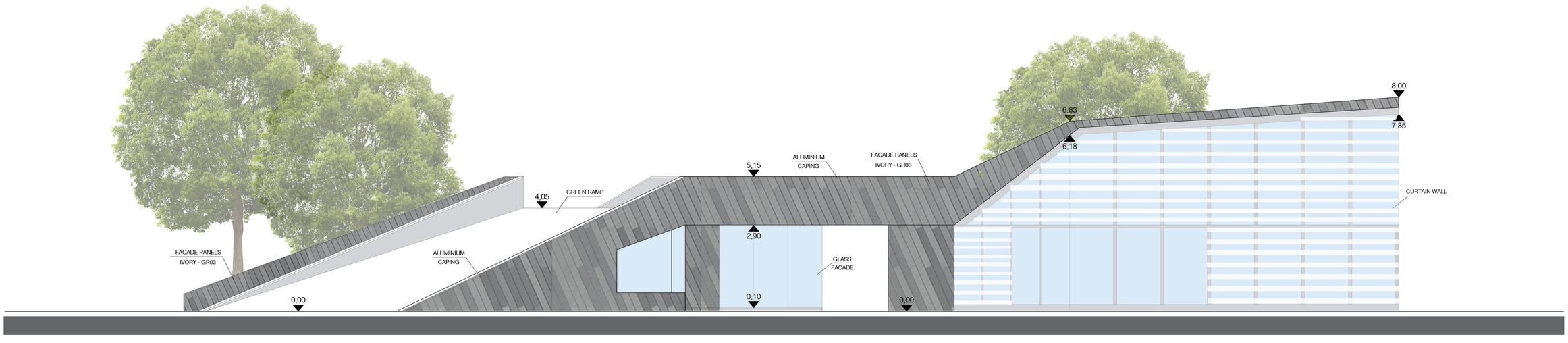
NORTH FACADE
SCALE:1/100



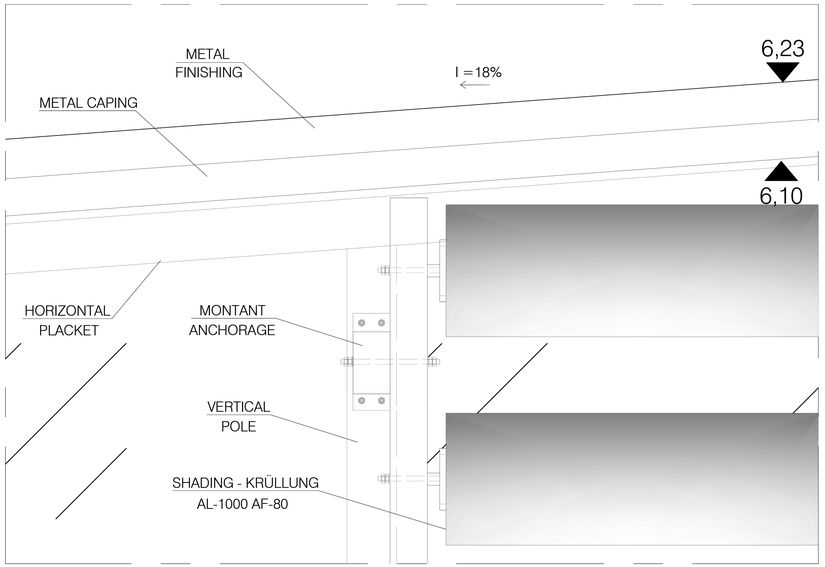
EAST FACADE
SCALE:1/100

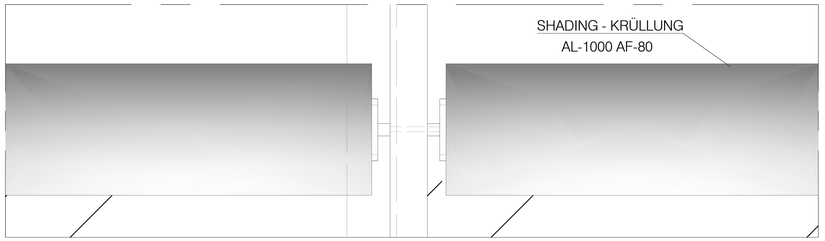


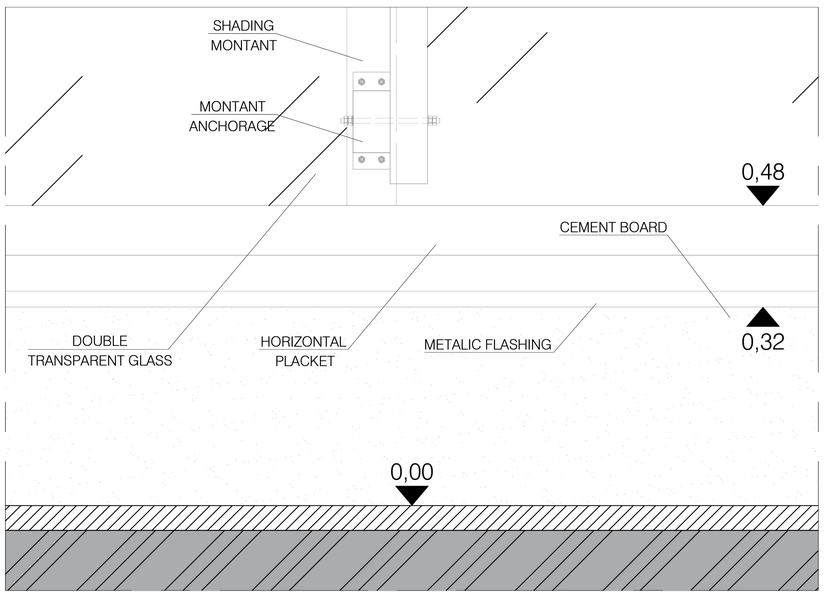
SOUTH FACADE
SCALE:1/100



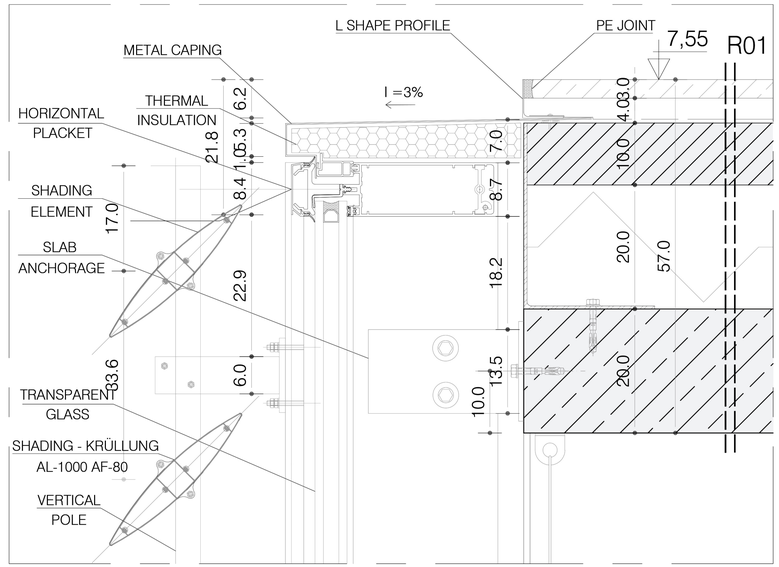
EAST FACADE
SCALE:1/100



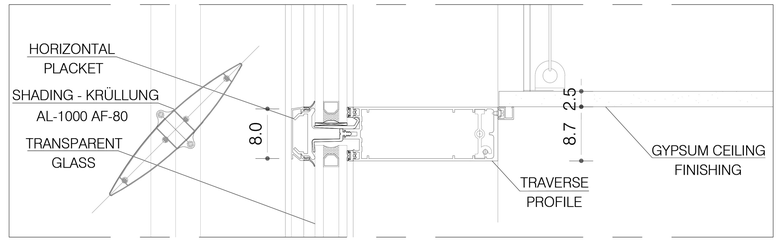




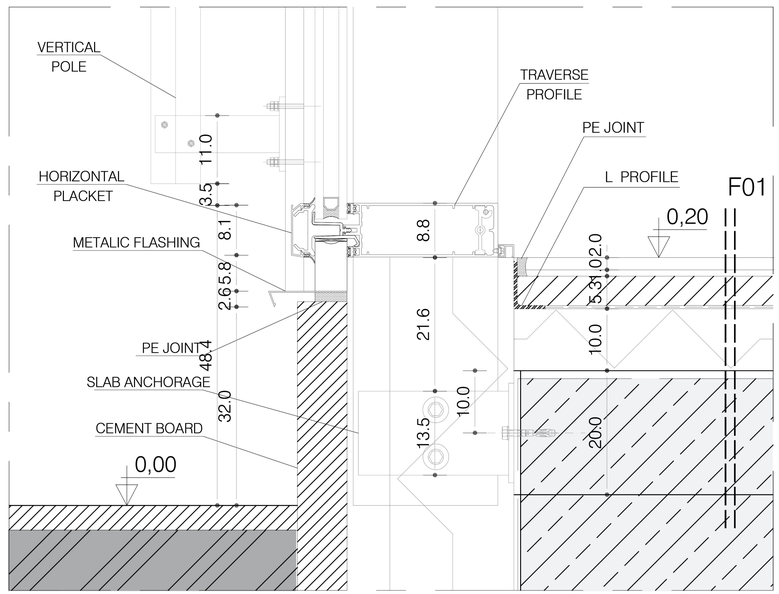
FACADE SEGMENT
SCALE: 1/10



DETAIL 01
SCALE: 1/10



DETAIL 02
SCALE: 1/10



DETAIL 03
SCALE: 1/10

T01 | 3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

T02 | 3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

G01 | 3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

G01 | 3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

R01 | 3m FACADE/ROOF PANEL
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER WATERPROOFING
20 cm IN-SITU RC. SLAB
PLASTERING

F01 | 2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
1 LAYER PE FOIL
10cm TERMAL INSULATION (XPS)
1 LAYER PVC WATERPROOFING
15cm CONCRETE SCREED
30cm GRAVEL BED

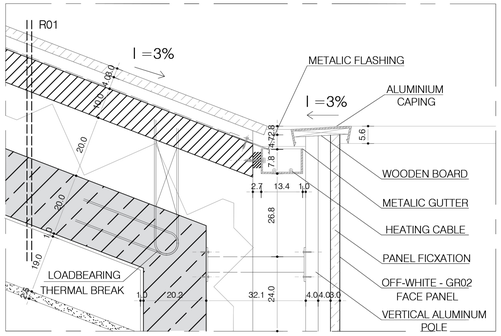
F03 | 4cm CONCRETE BLOCKS FLOORING
10cm SAND BED
30 cm GRIT LAYER
30 cm GRAVEL BED

F02 | 2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm RC SLAB
PLASTERING

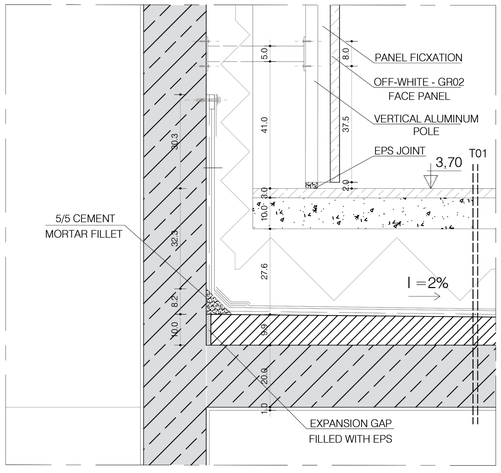
S01 | 2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm REINFORCED CONCRETE SLAB
1cm PLASTERING

C01 | 3m VEGETATION
20cm SOIL
30 cm GRAVEL BED

LEGEND:
REINFORCED CONCRETE
CERAMIC BRICK 12X15
CERAMIC BRICK 25X30
EPS THERMAL INSULATION
XPS THERMAL INSULATION



SCALE: 1/10
DETAIL 04



DETAIL 05
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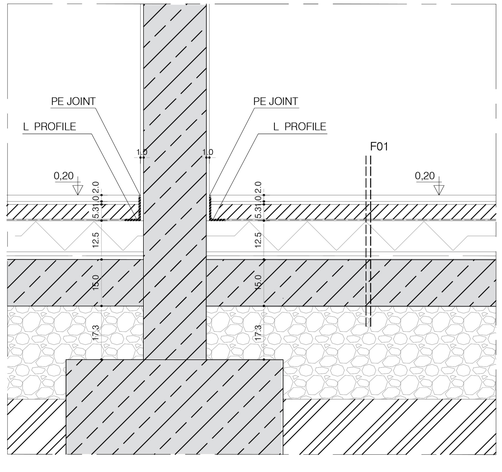

DETAIL 06
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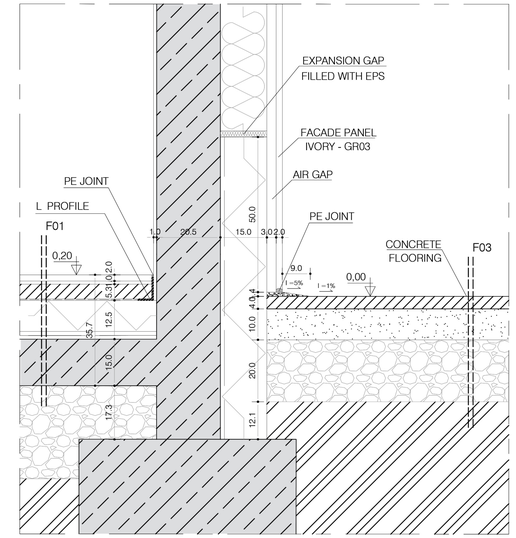
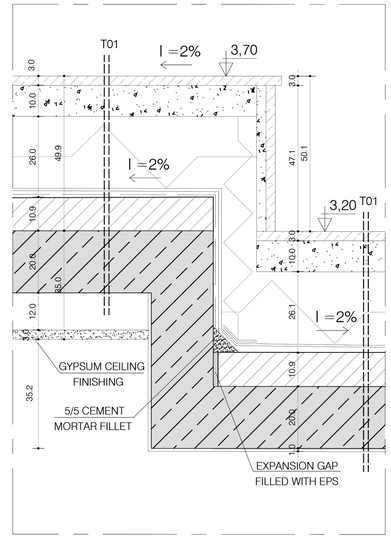
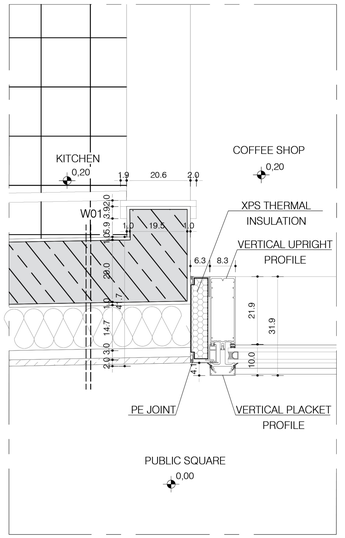


DETAIL 07
SCALE: 1/10



DETAIL 08
SCALE: 1/10



DETAIL 09
SCALE: 1/10

T01 3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

T02 3m STONE PAVING
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

G01 3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
15cm XPS THERMAL INSULATION
PLASTERING

G01 3m VEGETATION
20cm SOIL
1 LAYER FILTER
2cm DRAIN SHEET + WATER STORAGE
1 LAYER ROOT PROTECTION
26cm EPS THERMAL INSULATION
1 LAYER SEPARATION POLYESTER
10cm CONCRETE SCREED
1 LAYER GEOTEXTILE
20 cm IN-SITU RC. SLAB
PLASTERING

R01 3m FACADE/ROOF PANEL
10cm CONCRETE SCREED
1DRANING LAYER
26cm EPS THERMAL INSULATION
1 LAYER WATERPROOFING
20 cm IN-SITU RC. SLAB
PLASTERING

F01 2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
1 LAYER PE FOIL
10cm TERMAL INSULATION (XPS)
1 LAYER PVC WATERPROOFING
15cm CONCRETE SCREED
30cm GRAVEL BED

W02 2cm CERAMIC TILE
2cm MORTAR
12 cm CERAMIC BRICK
1cm PLASTERING

W03 1cm PLASTERING
20 cm RC WALL
1cm PLASTERING

C01 3m VEGETATION
20cm SOIL
30 cm GRAVEL BED

W01 1cm INTERNAL PLASTERING
20 cm RC WALL
15cm XPS THERMAL INSULATION
4cm AIR GAP
3cm OKO FACADE PANEL

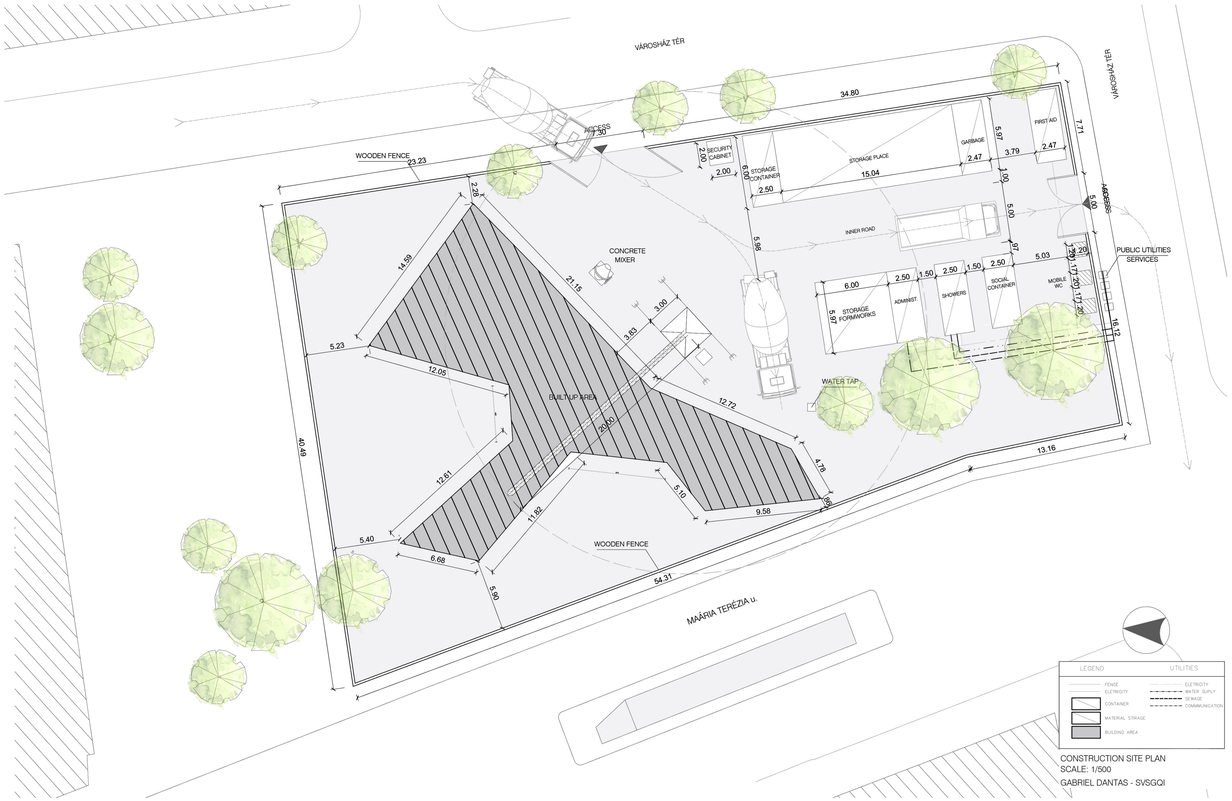
F03 4cm CONCRETE BLOCKS FLOORING
10cm SAND BED
30 cm GRIT LAYER
30 cm GRAVEL BED

S01 2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm REINFORCED CONCRETE SLAB
1cm PLASTERING

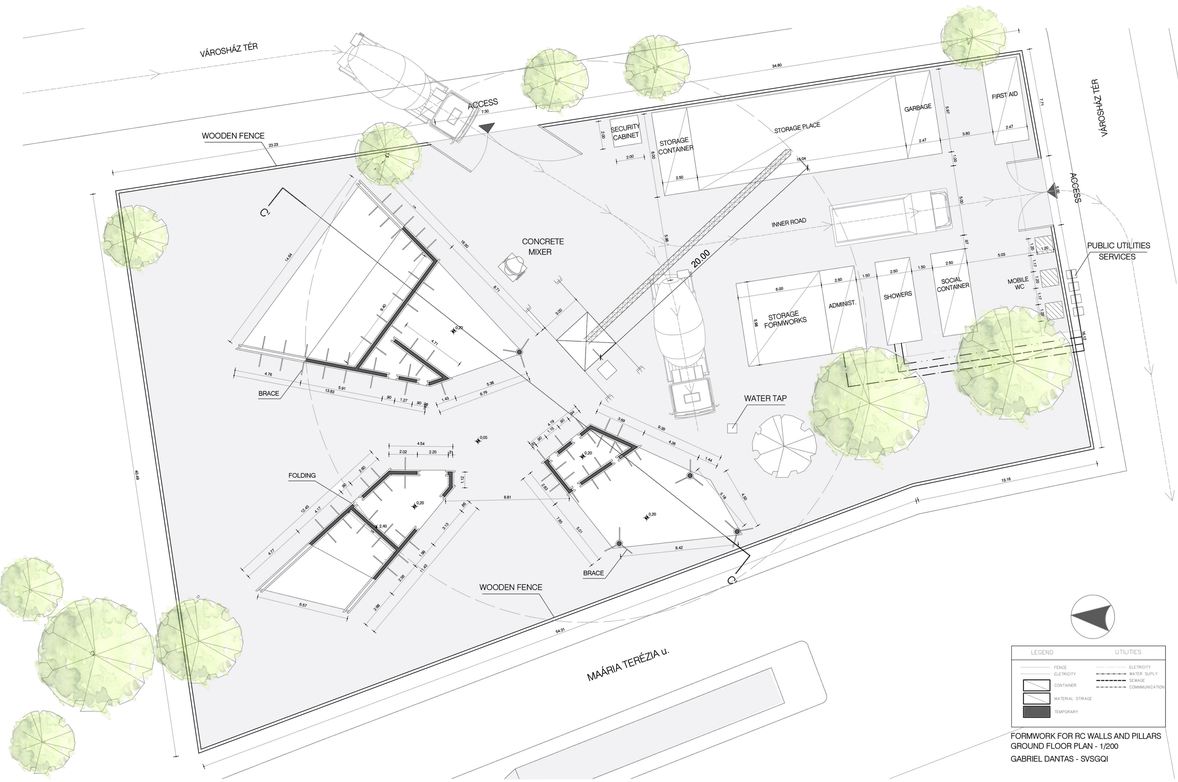
F02 2cm FLORING
1cm MORTAR
10 cm CONCRETE SCREED
20cm RC SLAB
PLASTERING

LEGEND:
- REINFORCED CONCRETE
- CERAMIC BRICK 12X15
- CERAMIC BRICK 25X30
- EPS THERMAL INSULATION
- XPS THERMAL INSULATION

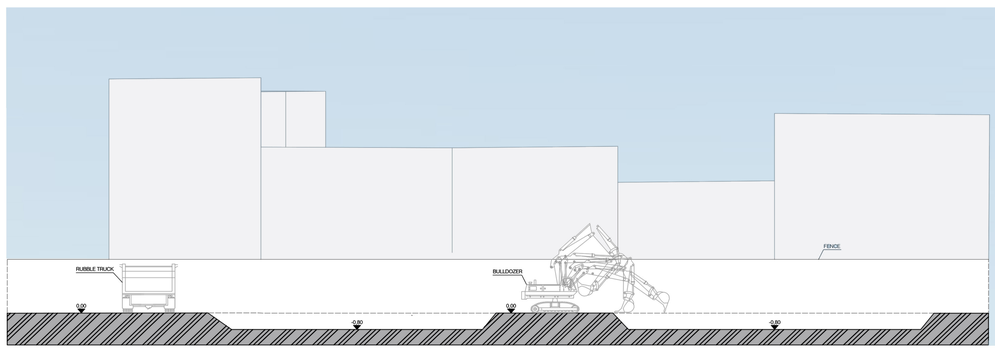
GABRIEL DANTAS - SVSGQI



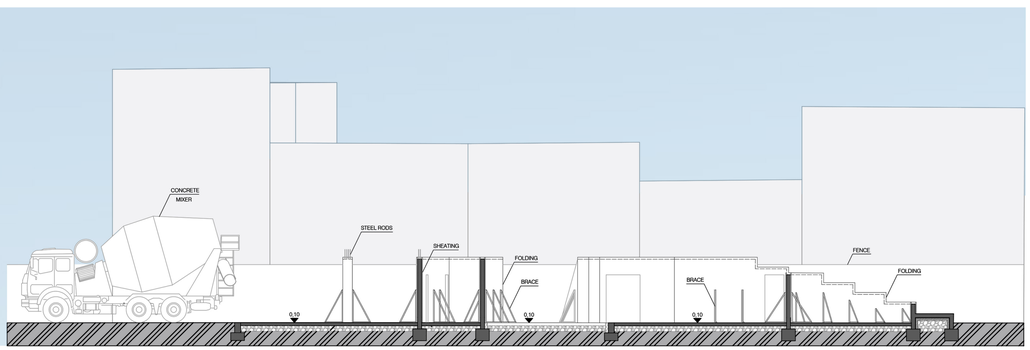
CONSTRUCTION SITE PLAN
SCALE: 1/500
GABRIEL DANTAS - SVSGQI



FORMWORK FOR RC WALLS AND PILLARS
GROUND FLOOR PLAN - 1/200
GABRIEL DANTAS - SVSGQI



SCTION CC - EXCAVATION
SCALE 1/200



SCTION C'C' - FORMWORKS
SCALE 1/200