

SITE

LOCATION:

VAZOVOVA 5, 812 43
BRATISLAVA 1, SLOVAK
REPUBLIC

TOTAL AREA:

506218.3 m² M2



CLIMATE

SPRING : MARCH - MAY

SUMMER : MAY - SEPTEMBER

AUTUMN : SEPTEMBER - NOVEMBER

WINTER : NOVEMBER - MARCH



SUN DIRECTION

CONSIDERING SUN DIRECTION AT THE SITE, PLACING ROOMS BASED ON FUNCTION CAN BE RELATED WITH SUN DIRECTION.



WIND DIRECTION

CONSIDERING WIND DIRECTION IN THE SITE, THE PLANNING OF THE BUILDING MUST CONSIDER WHICH PLACES FITS FOR CIRCULATION INSIDE BUILDING.



NOISE

CONSIDERING THE NOISE FROM THE STREET SURROUND THE BUILDING OF STU, THE PLACING OF ROOMS BASED ON PRIVACY LEVELS MUST BE IMPACTFUL WITH THAT MATTER.

PROBLEM STATEMENT

How to build a STU Centre in a site surrounded by a complex building of faculties of STU with considering professionalism and academic activities in the midst of the climate situation?

Project Idea

Slovak Technology University of Bratislava is a university that provides education concentrates in technology fields in Slovak University. The University is located in several cities, Bratislava is one of those cities. As the capital city of Slovak Republic, Bratislava is one of the most busiest city in the country. The city is also become the capital of technology companies in the country. Bratislava has more high temperature than other cities because of the activities of people and vehicle emissions. A university centre is required for Slovak Technology University of Bratislava to unite all the divisions of faculties in several cities in Slovak Republic. The centre will also become the representative of STU. The goal of this centre is to provide good environment for professional and academics activities. The site of the proposed project is located between the buildings of different faculties, such as faculty of civil engineering, faculty of mechanical engineering, and faculty of chemical and food technology.

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LECTURER: YUSUF ARIYANTO S.T.,M.ARS.

TUTOR: MARIANNE TUNGGADEWI JULUK DWIPUTRI S.T., M.ARS.

Project Description

THEME:

POST PANDEMIC COMMERCIAL INFILL BUILDING WITH SUSTAINABLE DESIGN

CONCEPT:

CONTEMPORARY DESIGN WITH ECOLOGICAL APPROACH

GREEN CORE OF STU

Here at the centre of STU Complex, there is STU Centre "Green Core of STU". A building that supports educational activities with ecological approach in contemporary style. The green core of STU is also designed to adapt in pandemic by using open space, outdoor place, and various plants that provide oxygen.

ECOLOGICAL

THE ECOLOGICAL ASPECTS IN THIS BUILDING CAN BE SEEN IN ECO-FRIENDLY MATERIALS, VEGETATIONS, ENERGY SAVING AND BIG OPEN SPACE FOR PEOPLE RECREATION WITH VEGETATIONS THAT SERVE OXYGEN IN THE STU CENTRE.

CONTEMPORER

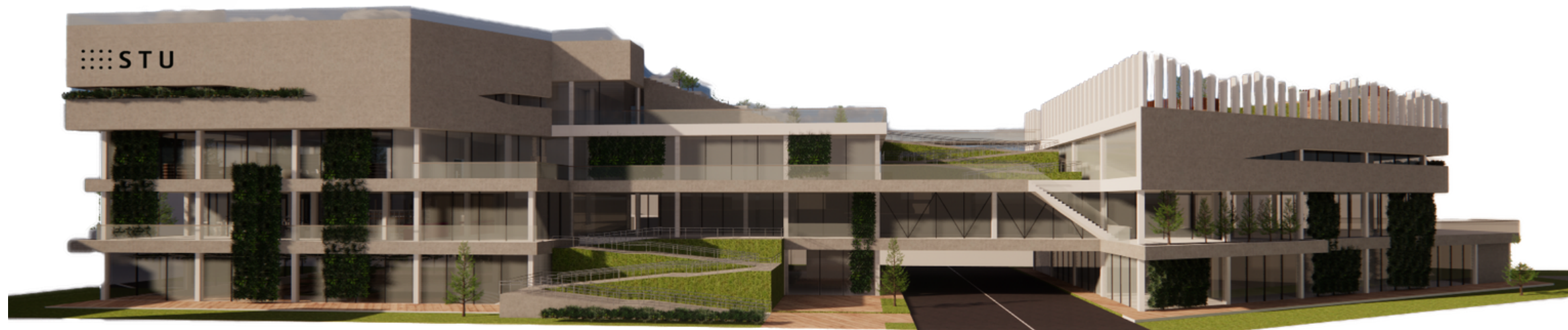
BASED ON THE ARCHITECTURAL OF THE BUILDING, CONTEMPORARY CAN BE FOUND AS AN ASPECT OF THIS BUILDING. BY USING INFILL PRINCIPLE, THIS BUILDING IS ADAPTABLE WITH THE BUILDINGS AROUND THE SITE.

Sustainability Strategies

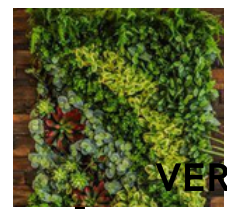
The material that used must be low maintenance, durable, eco-friendly, and maintenance cost saving.

Material Requirements

To supports the ecological and contemporary aspects, the building is designed with using materials that guarantee low maintenance, durable, and ecological friendly



MATERIAL



VERTICAL GARDEN



CURTAIN WALL



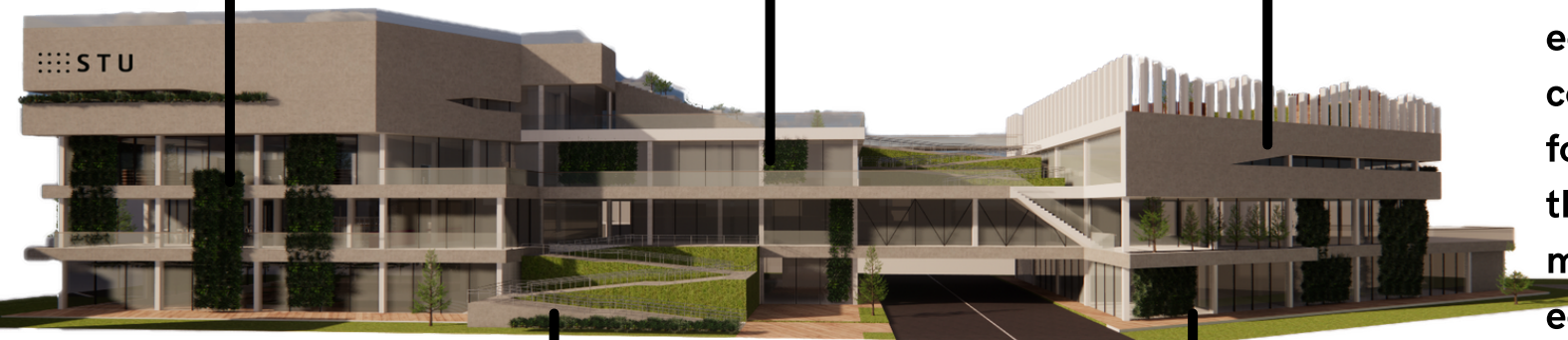
SANGLIME BRICKS



CONCRETE SLAB



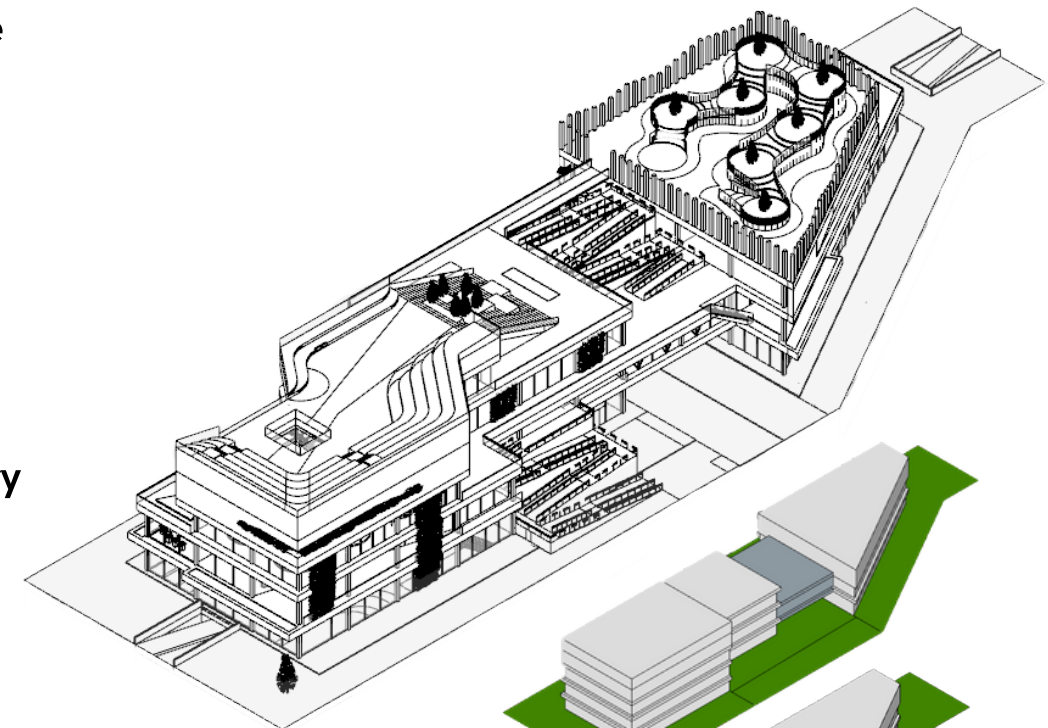
WOOD COMPOSITE



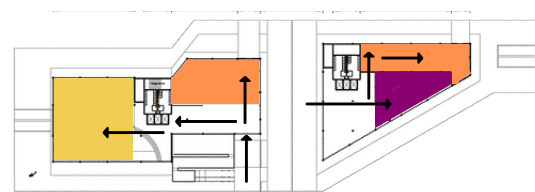
As the concept is both ecological and contemporary, the materials must support the ecological and contemporary design. As for the ecological aspects, the materials are low maintenance, durable, and eco-friendly. But the materials also make perception of contemporary design.

SPACE & MASS

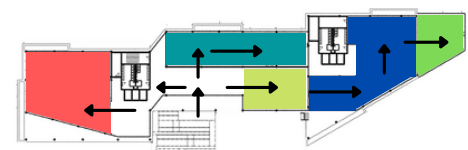
By using infill building principle, the STU Centre is built following the site that the original building has been established. Then the mass with following the simplified site is being extrudes and being trimmed so becoming 2 separate buildings with a bridge.



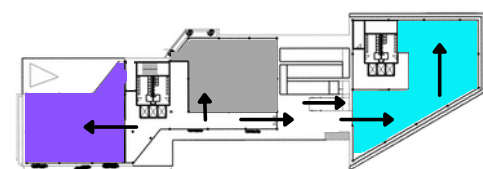
CIRCULATION



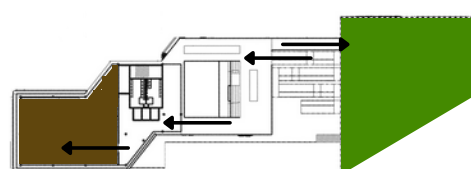
Floor 1



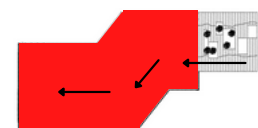
Floor 2



Floor 3

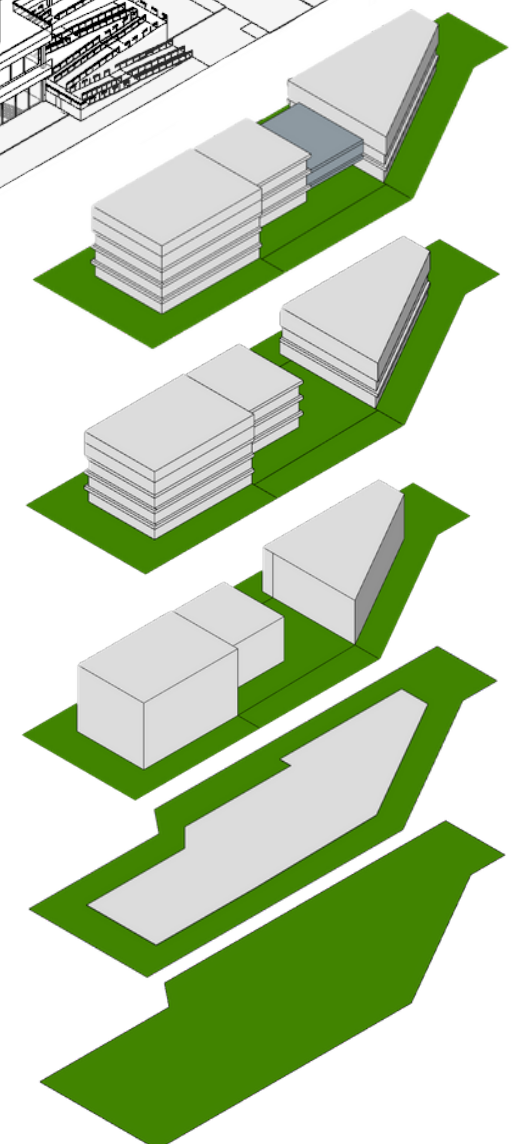


Floor 4

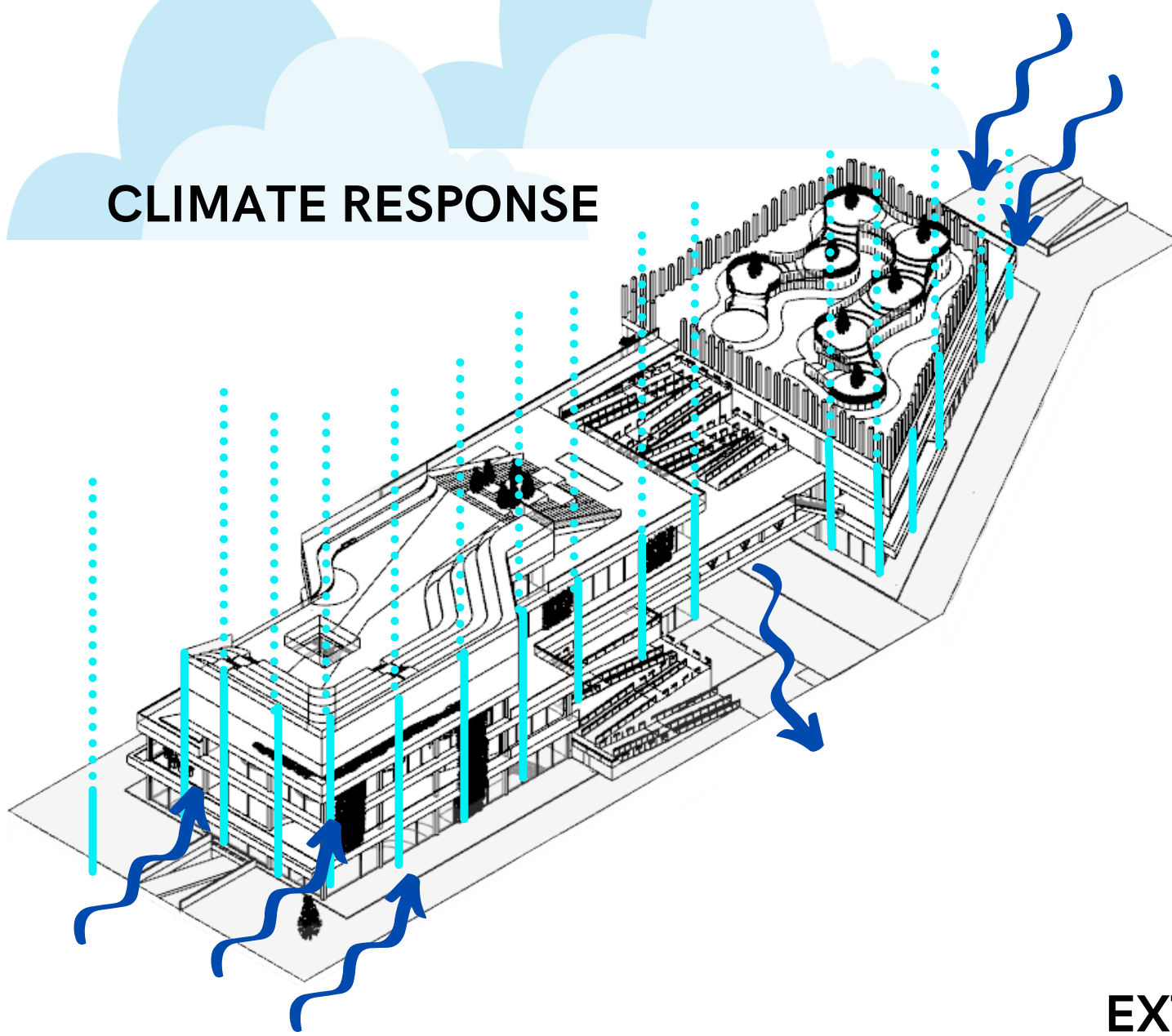


Floor 5

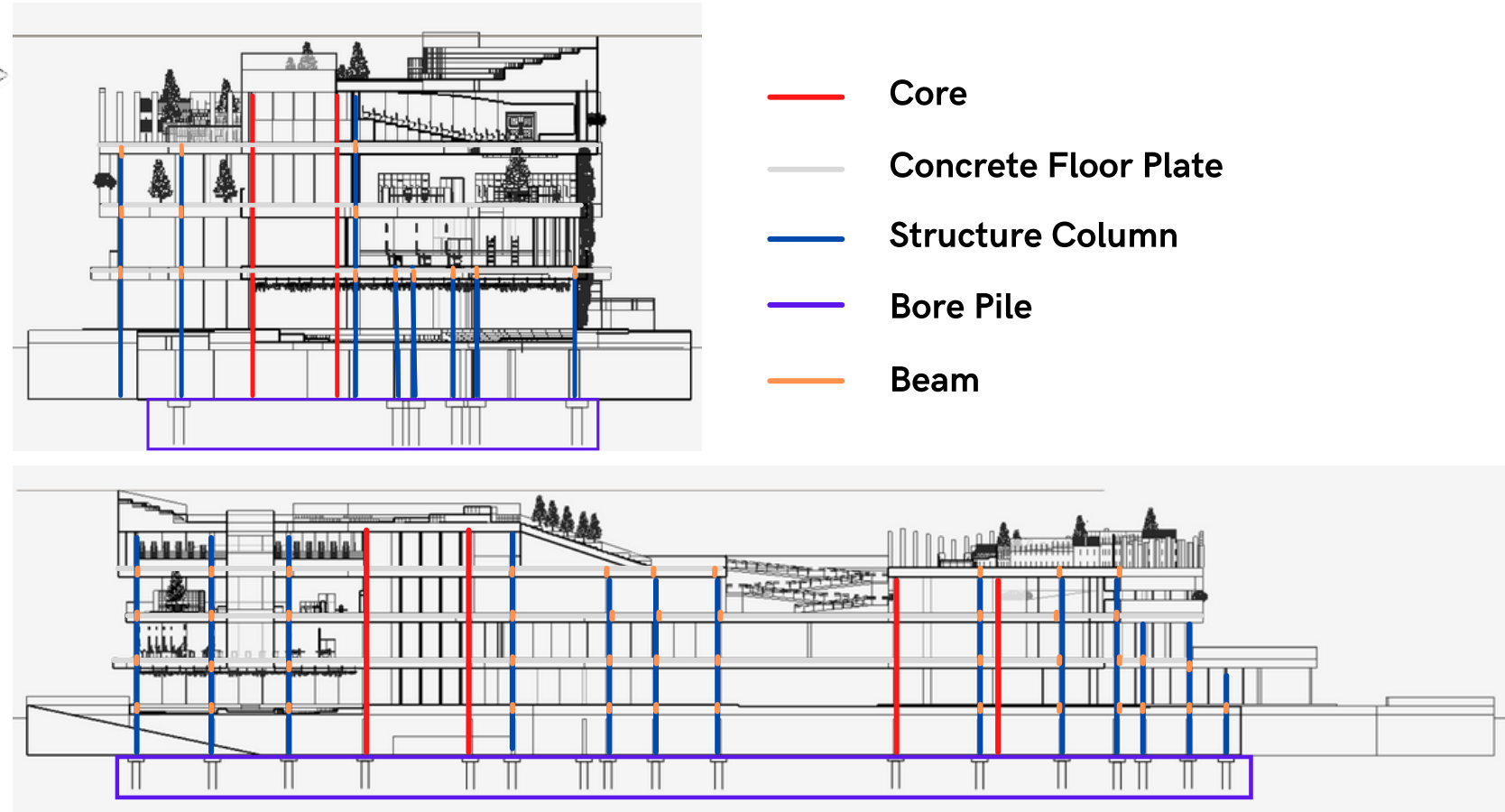
- Social & Exhibition
- Outdoor Seating
- Cafeteria & Kitchen
- Library & Study
- Startup Centre
- Administrative Office
- Workshop
- Multipurpose Hall
- Laboratory & Technical Background
- Presentation Centre
- Lounge
- Roof Garden
- Research Centre
- Amphitheatre



CLIMATE RESPONSE



STRUCTURE



EXTERIOR





PRESENTATION CENTRE



LIBRARY & STUDY



WORKSHOP



SOCIAL & EXHIBITION

INTERIORS



AS THE CONCEPT IS ECOLOGICAL AND CONTEMPORARY, THE INTERIORS ARE USING THE COMPOSITION NATURAL ASPECTS BUT HAVE CONTEMPORARY ASPECTS ALSO. THE MATERIAL IN THE INTERIORS ARE USING NATURAL TONE WITH CONTEMPORARY STYLE OF DESIGN.



SANGLIME BRICKS



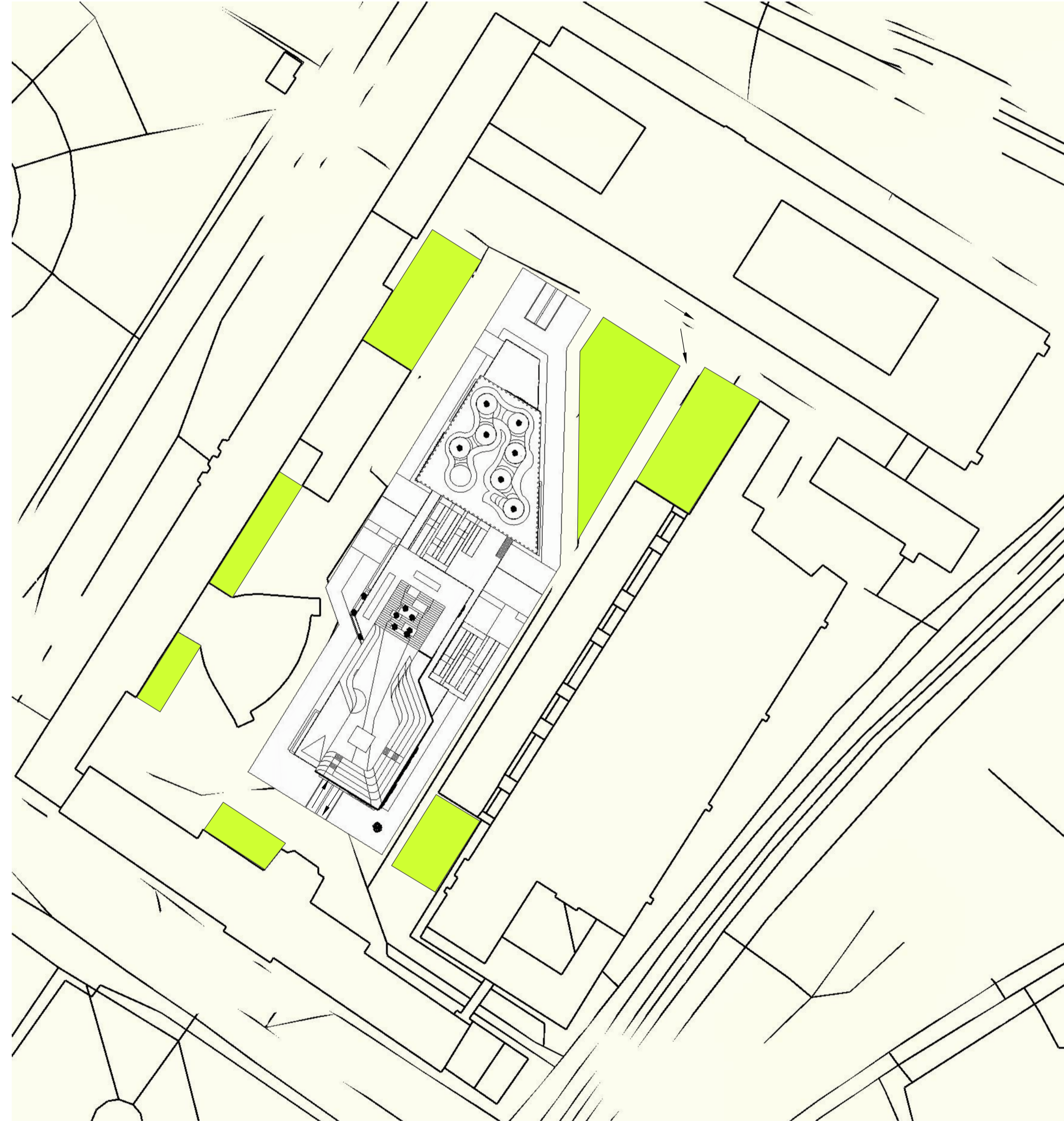
CURTAIN WALL



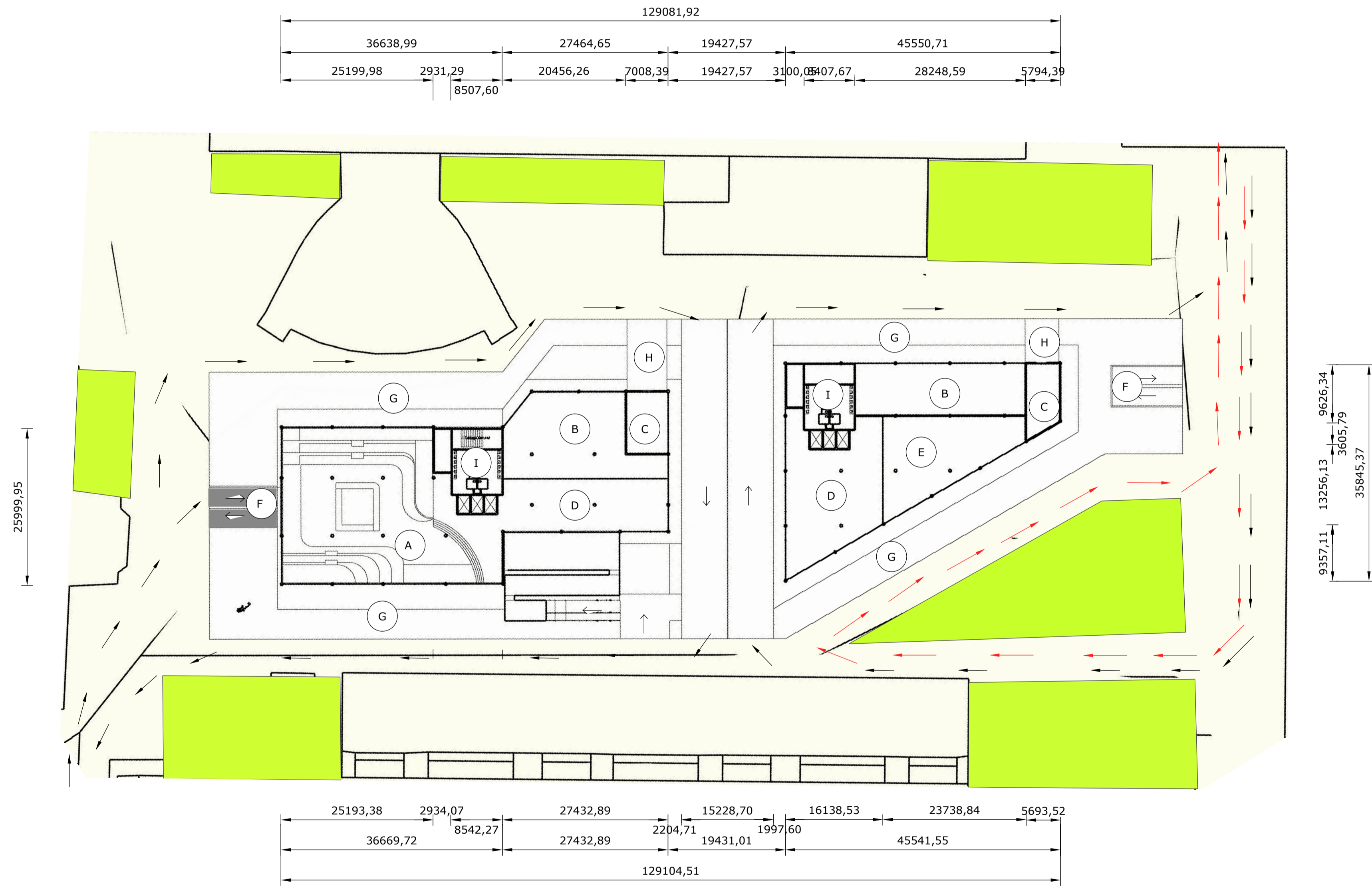
CONCRETE SLAB



WOOD COMPOSITE

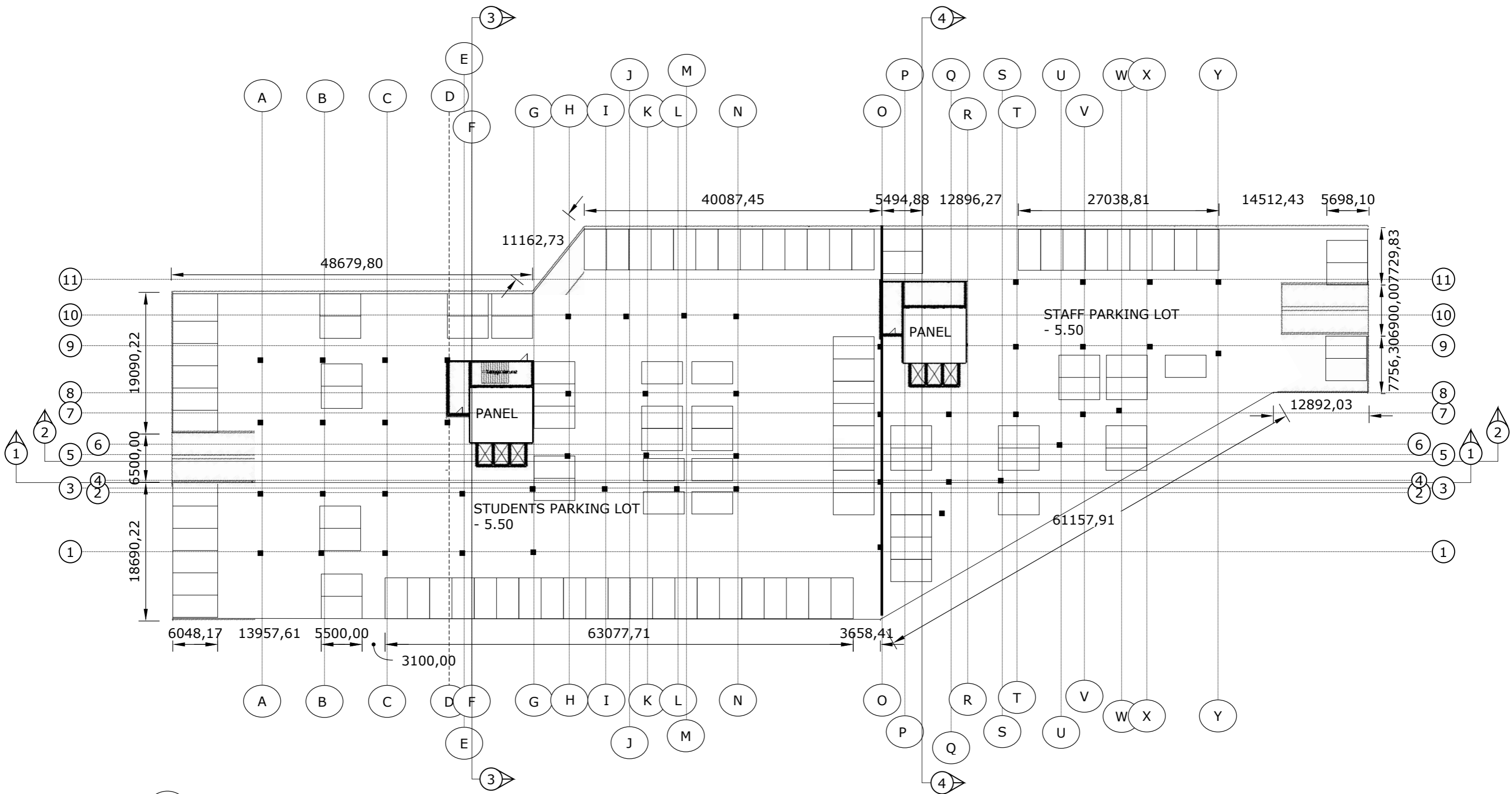


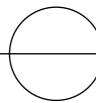
○ SITE PLAN
SCALE 1:1000

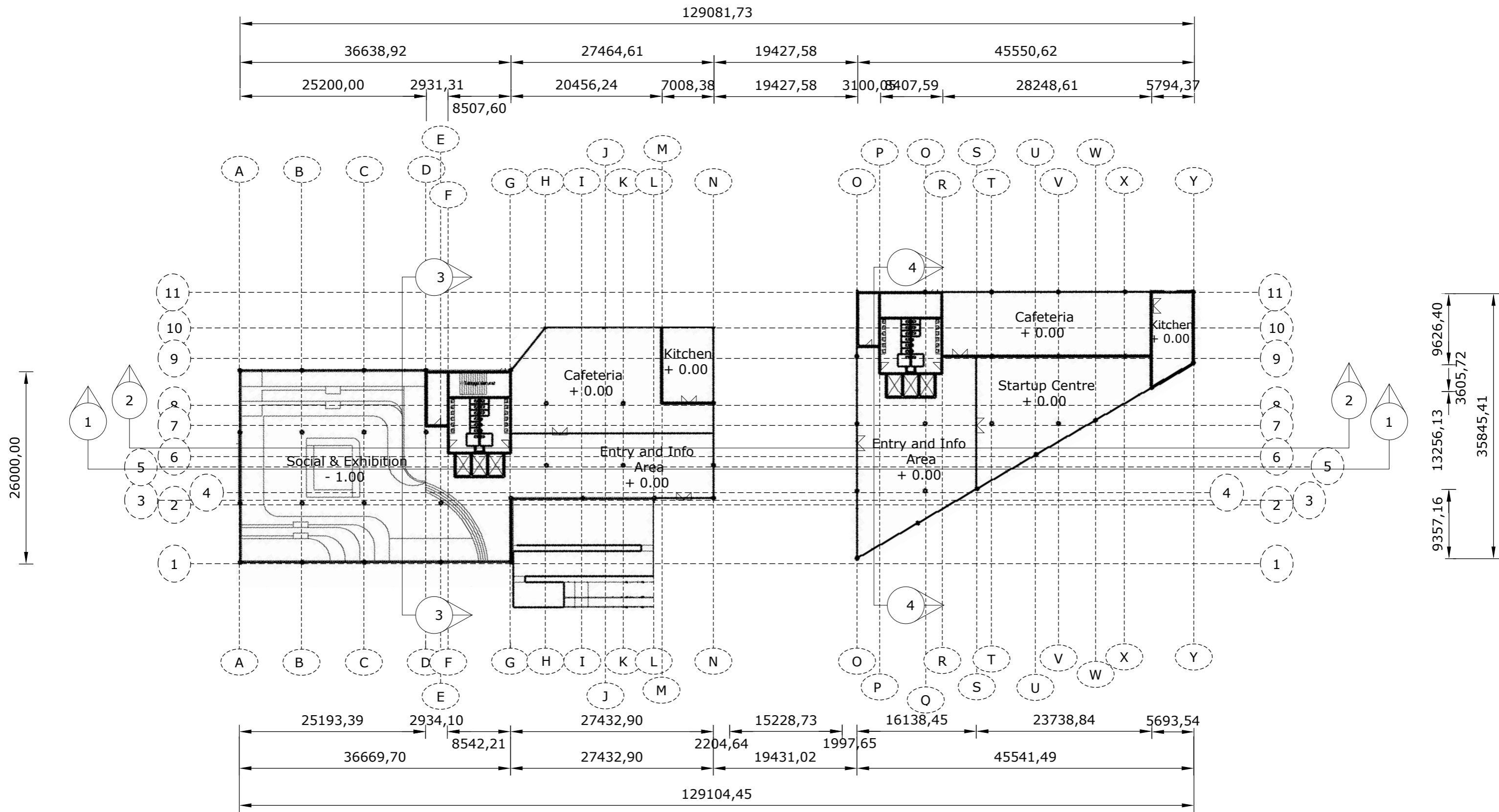


LAYOUT
SCALE 1:500

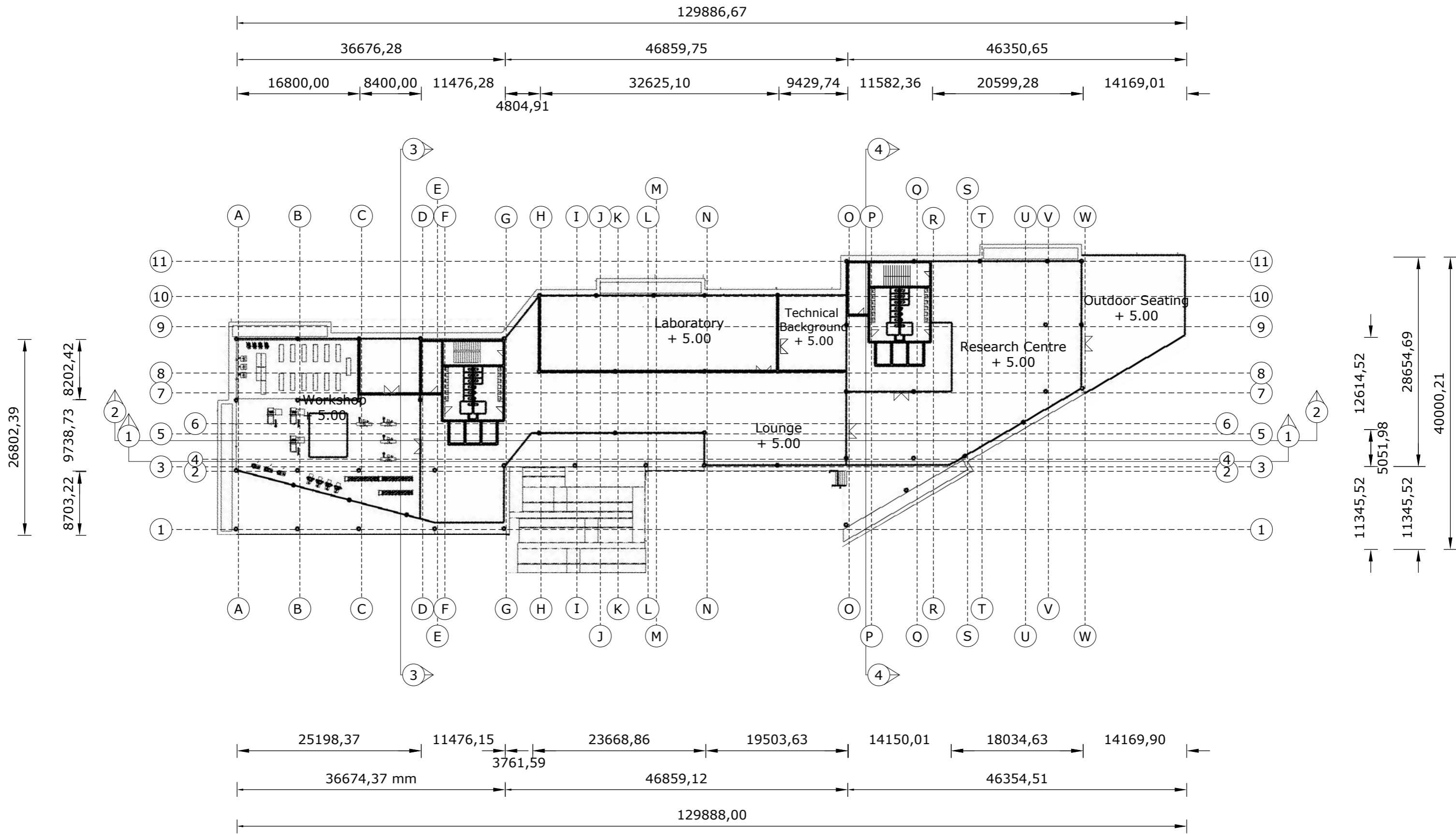
- LEGEND
- A : Social & Exhibition
 - B : Cafeteria
 - C : Kitchen
 - D : Entry & Info Area
 - E : Startup Centre
 - F : Car Entrance to Underground Parking
 - G: Garden
 - H: Loading Dock
 - I: Core (Consists: Toilet: Elevator, Stairs, Panel Room)
 - ← : Vehicle Circulation
 - : Bicycle Circulation



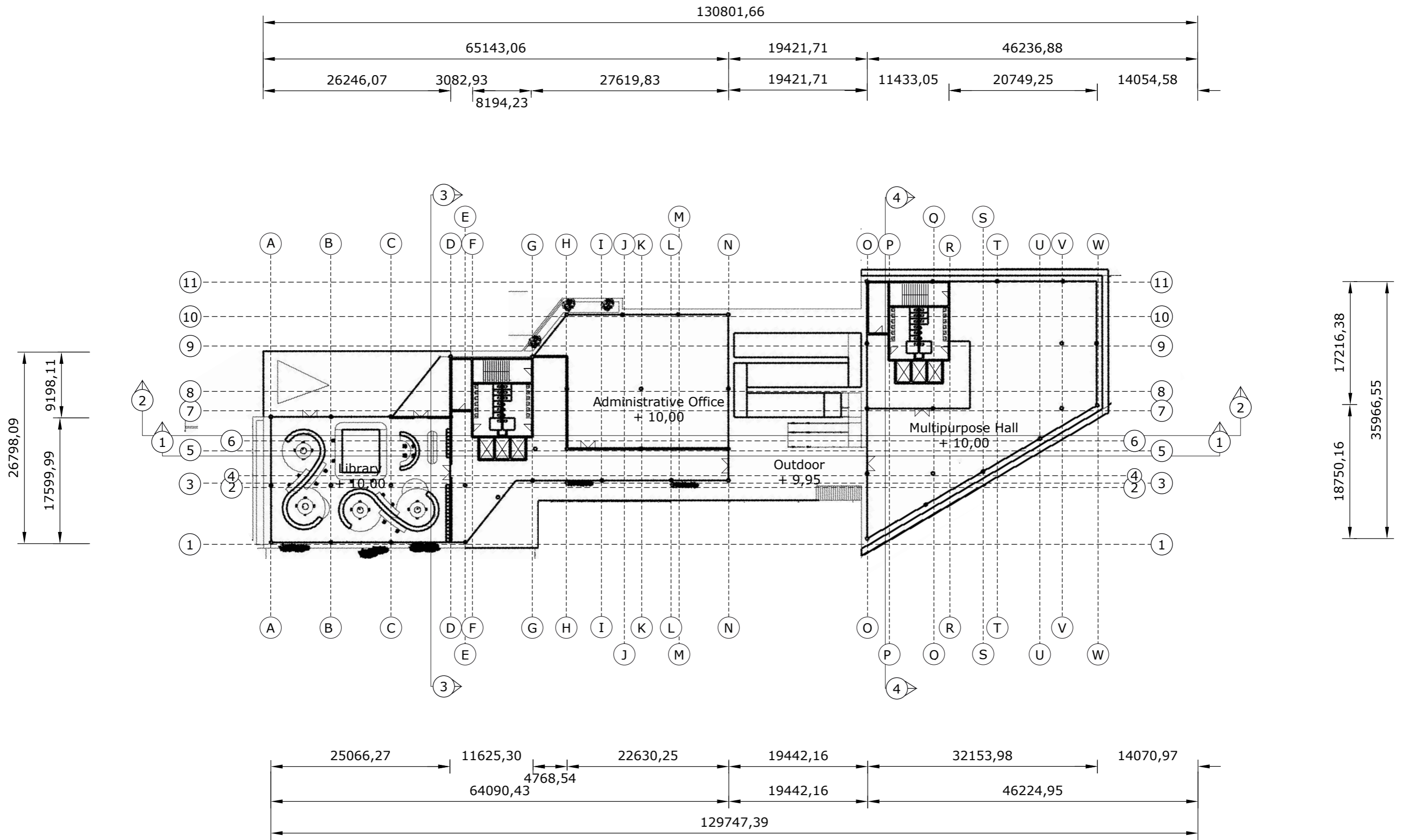

BASEMENT FLOOR PLAN
 SCALE 1:500



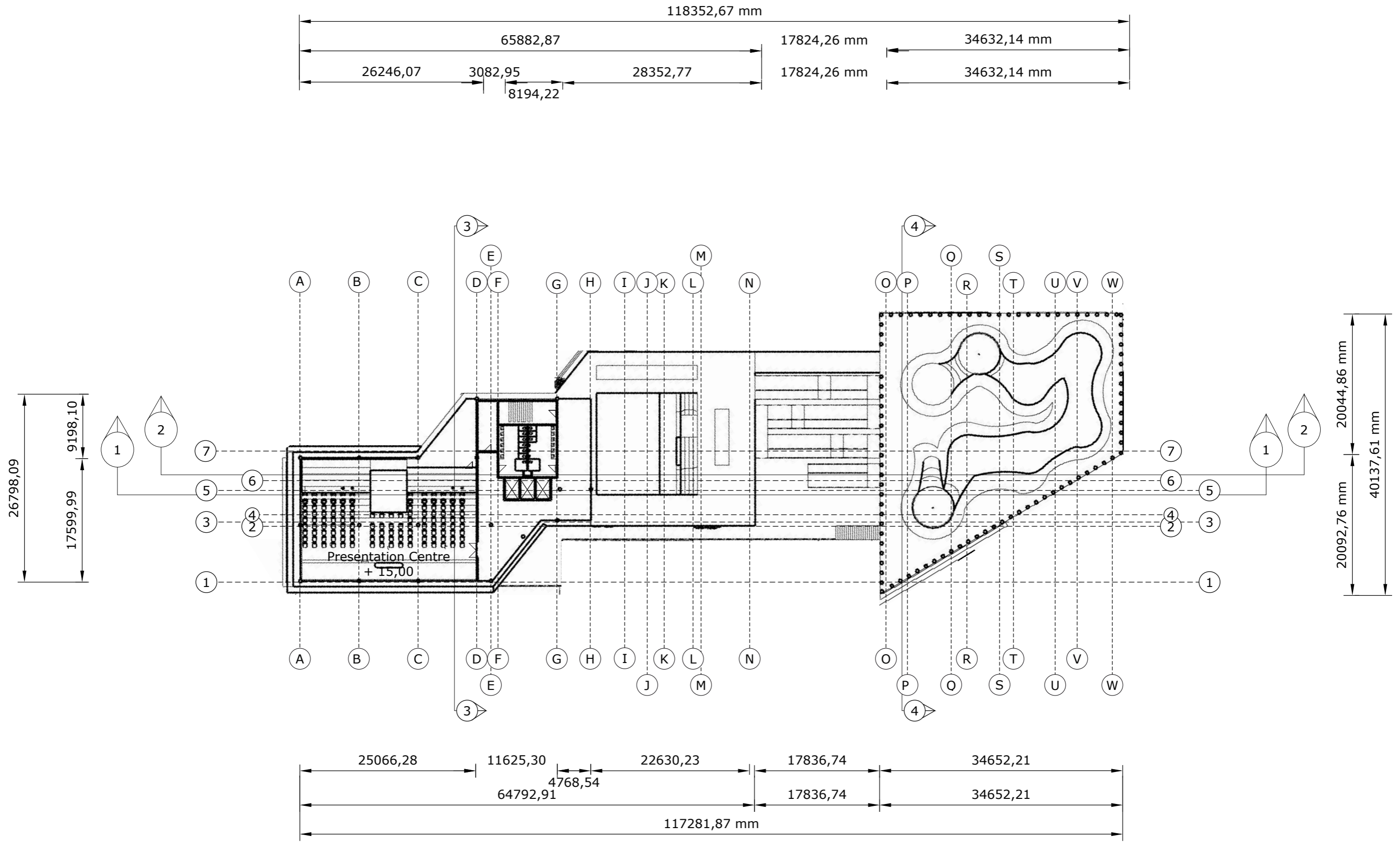
1ST FLOOR BLUEPRINT
SCALE 1:500



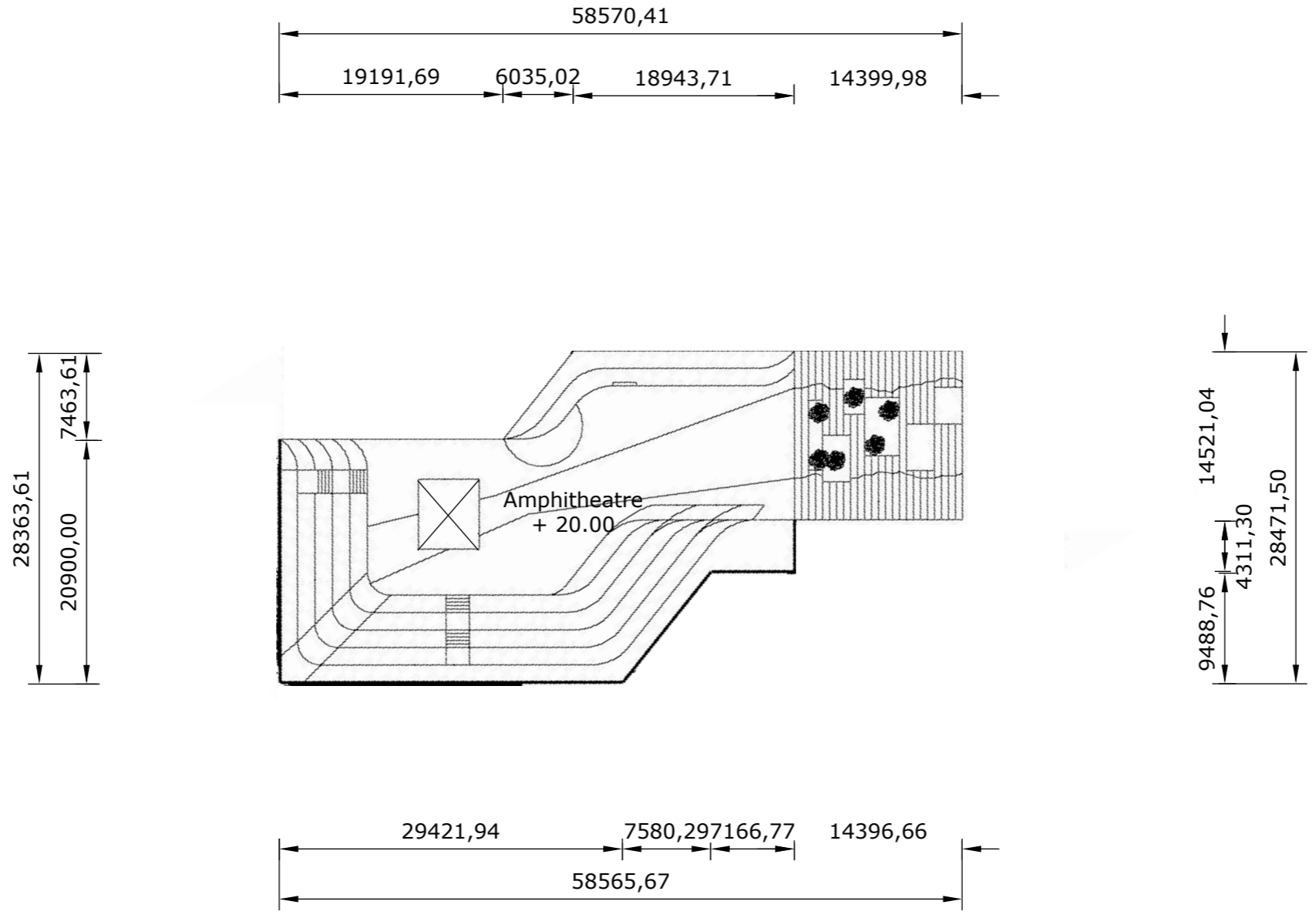
○ 2ND FLOOR PLAN
SCALE 1:500



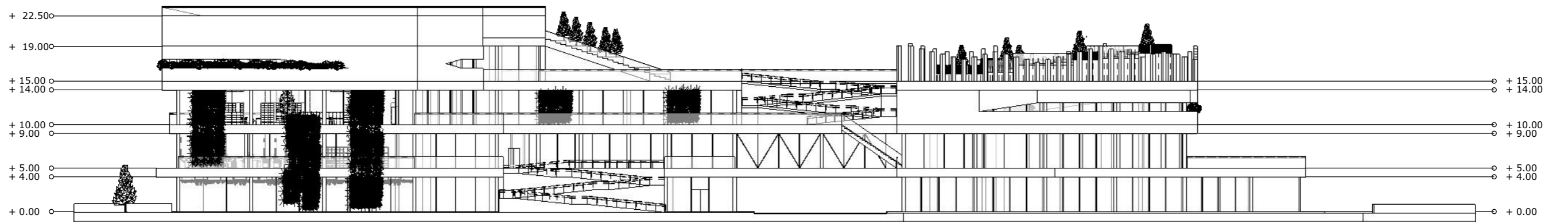
3RD FLOOR PLAN
SCALE 1:500



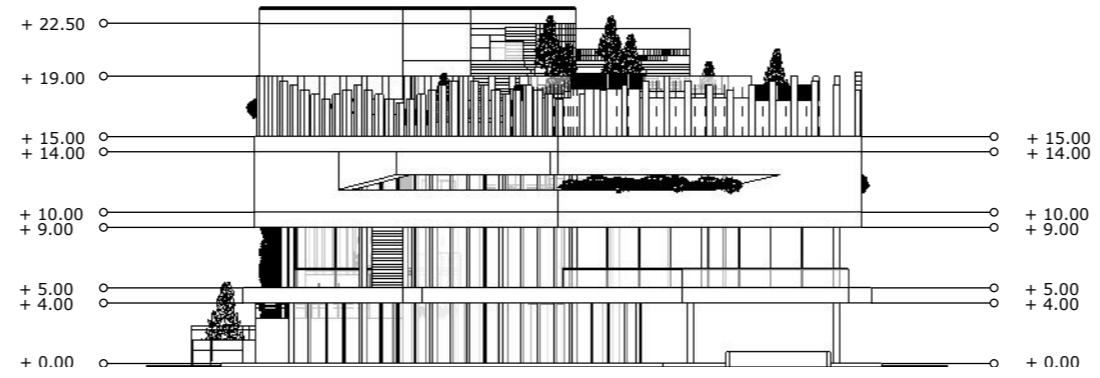
4TH FLOOR PLAN
SCALE 1:500



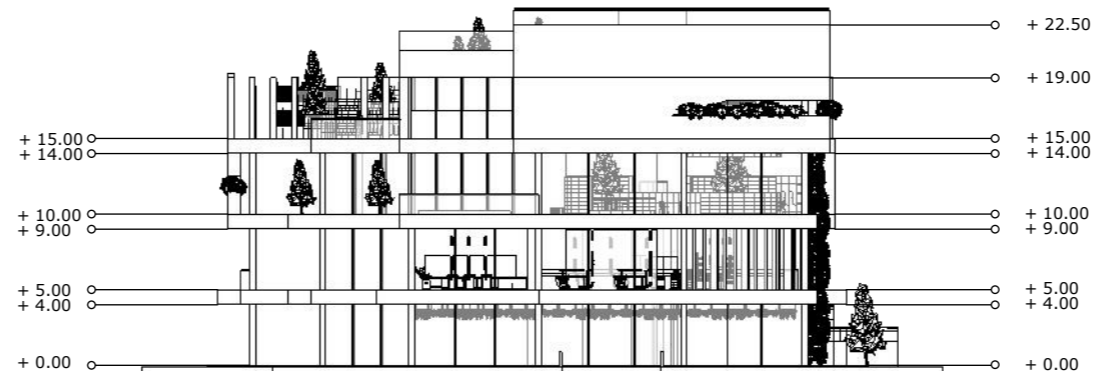
5TH FLOOR PLAN
SCALE 1:500



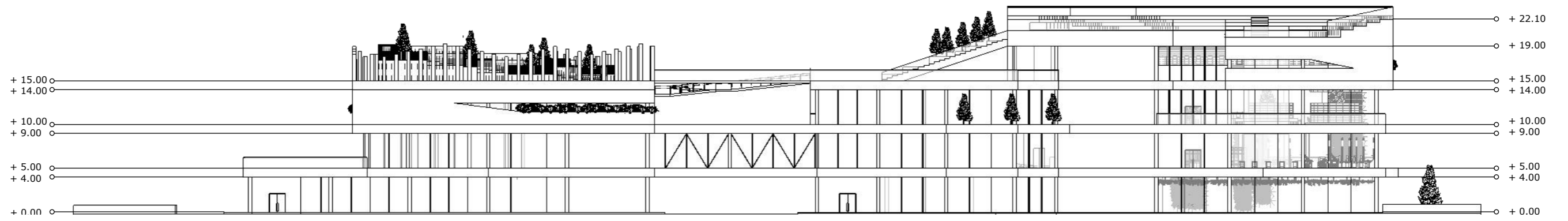
FRONT VIEW
SCALE 1: 500



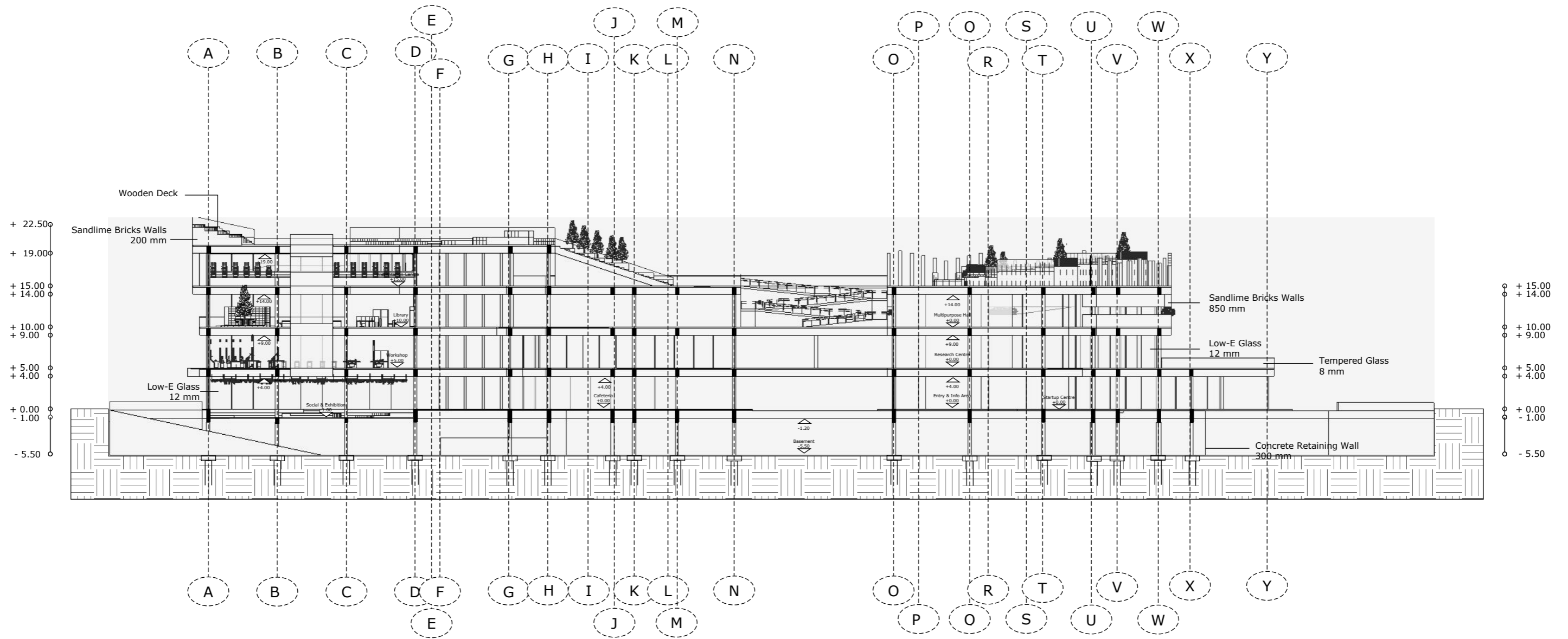
○ LEFT VIEW
SCALE 1: 500



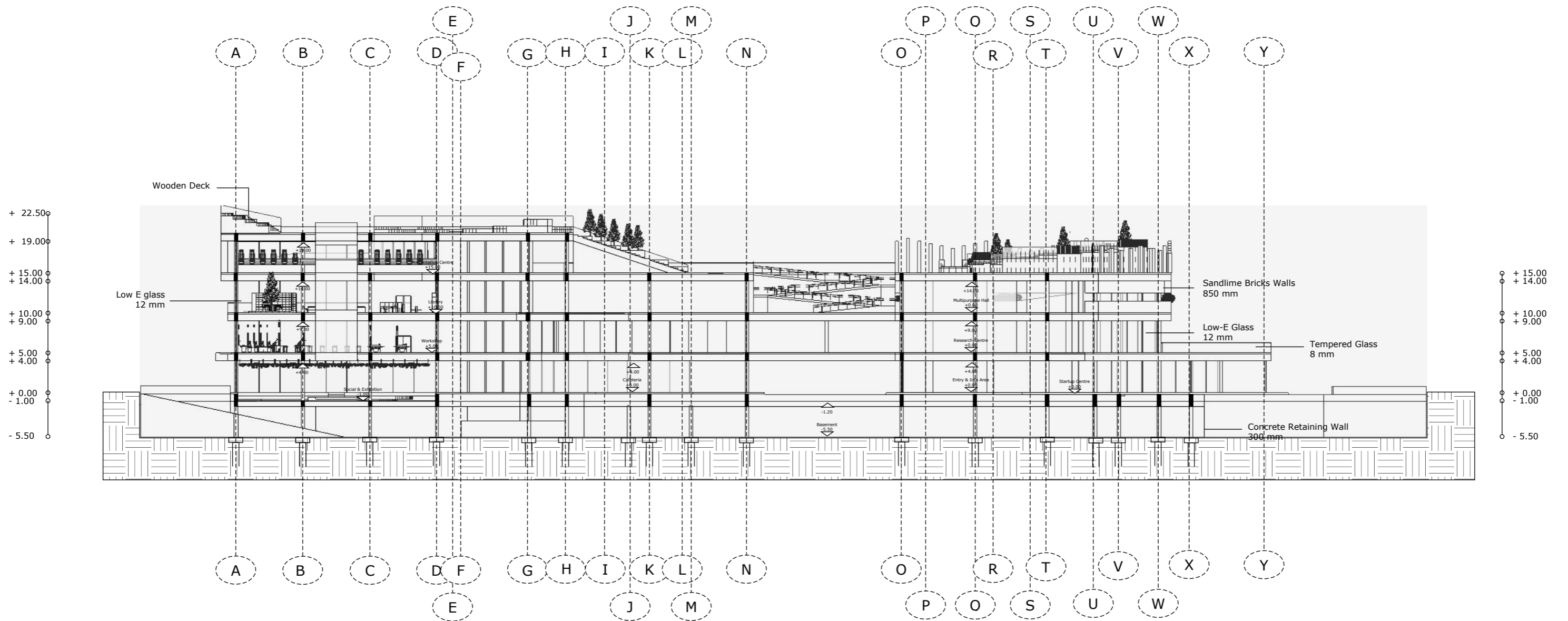
RIGHT VIEW
SCALE 1: 500



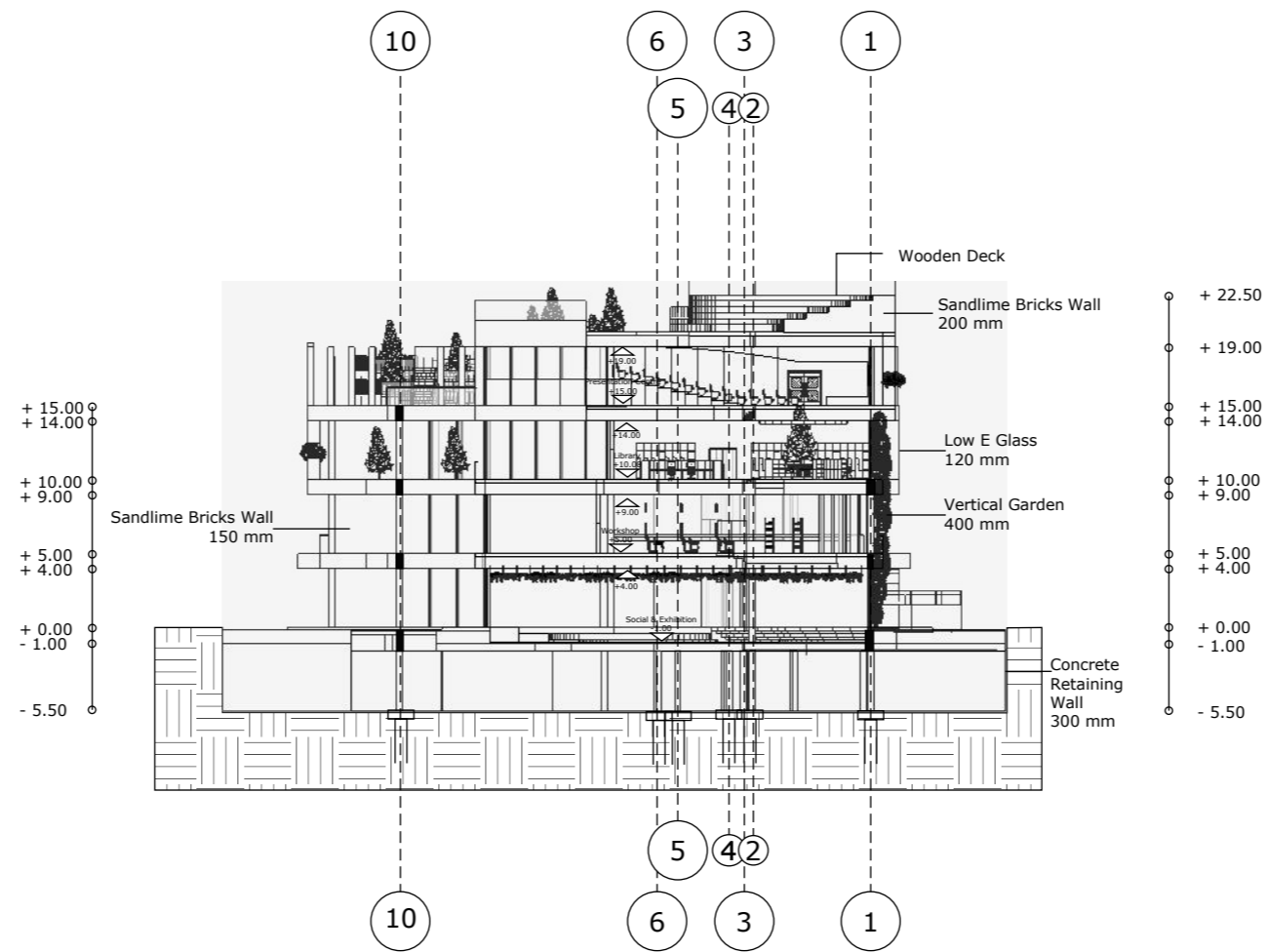
○ BACK VIEW
SCALE 1:500



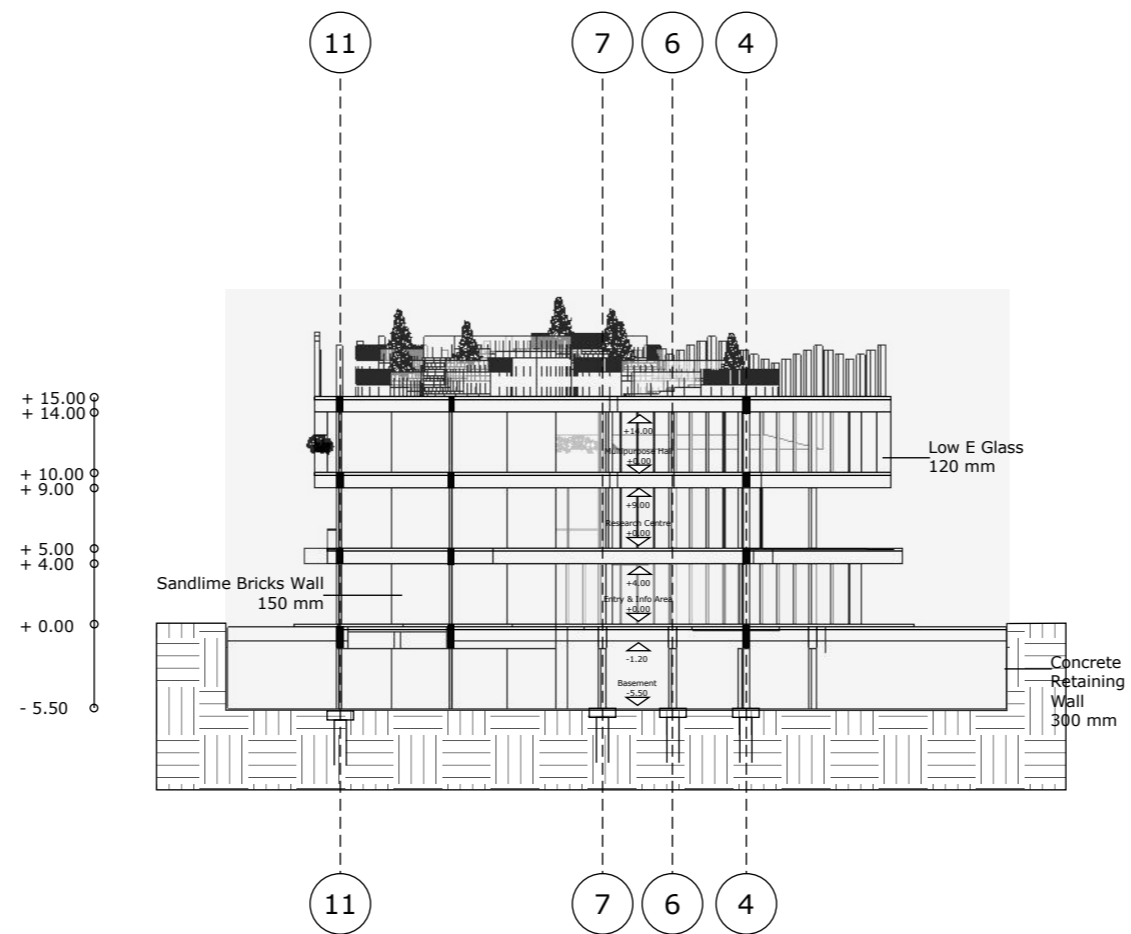
SECTION 1
SCALE 1: 500



SECTION 2
SCALE 1: 500



SECTION 3
SCALE 1: 500



SECTION 4
SCALE 1: 500