

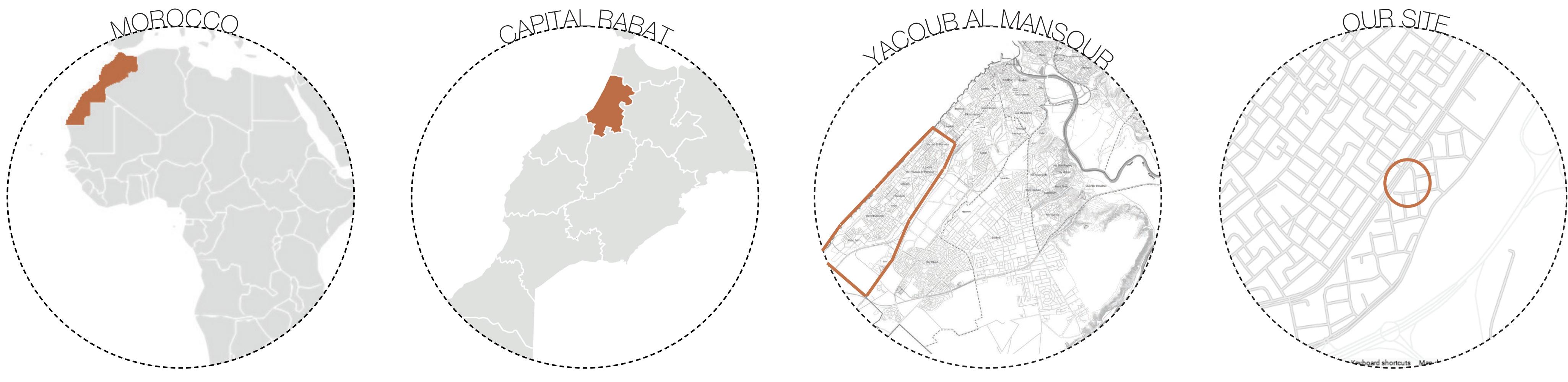
INTRODUCTION

Located at the capital Rabat in the middle of a highly dense residential neighborhood , where mostly families of low to medium income live .

AL FIHRIYA - CO is a female association where all women of the city can come together in order to benefit from each other experiences and learn together new skills , women from different social classes and background will gather to help one an other in forging a bright future for them and for the community they belong to .

Brought up from different issues and challenges , AL FIHRIYA - CO is designed as an answer to these issues , to support the design purpose the building will be designed in accordance to the social cultural norm of the country .

LOCATION



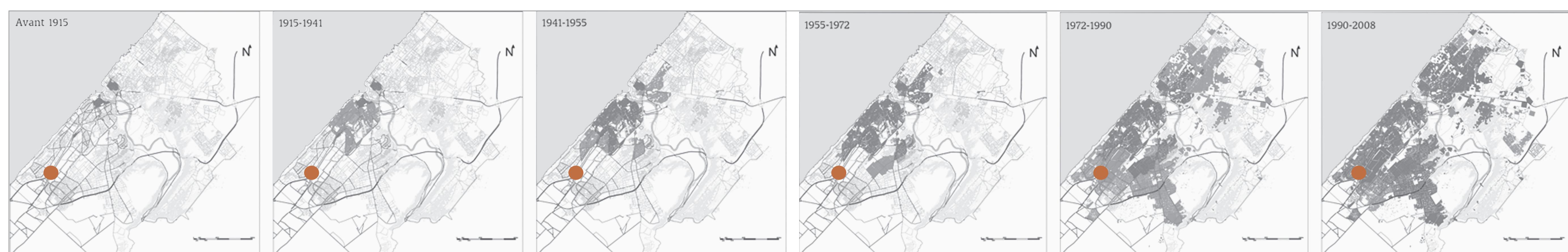
Morocco is in North Africa , It overlooks the Mediterranean Sea to the north and the Atlantic ocean to the west

Rabat is the capital of Morocco , it is located on the Atlantic ocean at the mouth of the river Bou Regreg

Yacoub al Mansour is an urban zone in rabat bordered by the Atlantic ocean on the west , by the historic District Hassan on the north , and by district Agdal hay riad on the east .

The plot is in a residential neighbourhood , surrounded by streets all along its border , the longest side of the plot is facing a main street called Al majd avenue

Urban development of Rabat city



ISSUES

- Lack of family support
- Gender discrimination
- Informal economy
- Educational disparities
- low business involvement

PROBLEMS

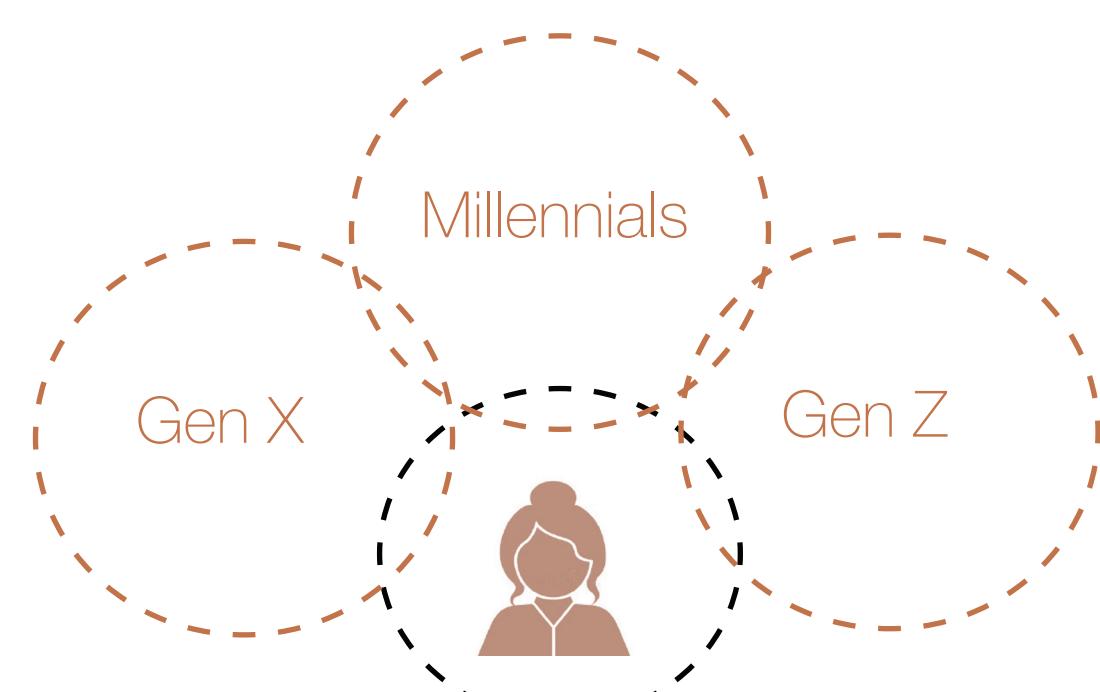
- Provide good access to education training and financial resources ?
- Develop a design process in compliance with architectural heritage of the city and socio-cultural norms ?
- Create a feeling of home and sense of familiarity all together with preserving the visual privacy ?

AIMS

the project will help in empowering women economically , when women have the knowledge and tools to start and manage their businesses they can contribute more substantially to the economy ,moreover this project will strengthen communities by fostering a sense of solidarity and shared purpose , this program will support educational initiatives which will encourage girls and women to pursue education and skill development .

USER'S CHARACTERISTICS

AL FIHRIYA - CO is mainly designed for women who are willing to learn new skills , have access to basic education , very likely being actively involved in the business market .so the users are Gen X , Millennials , Gen Z



SITE CHARACTERISTICS

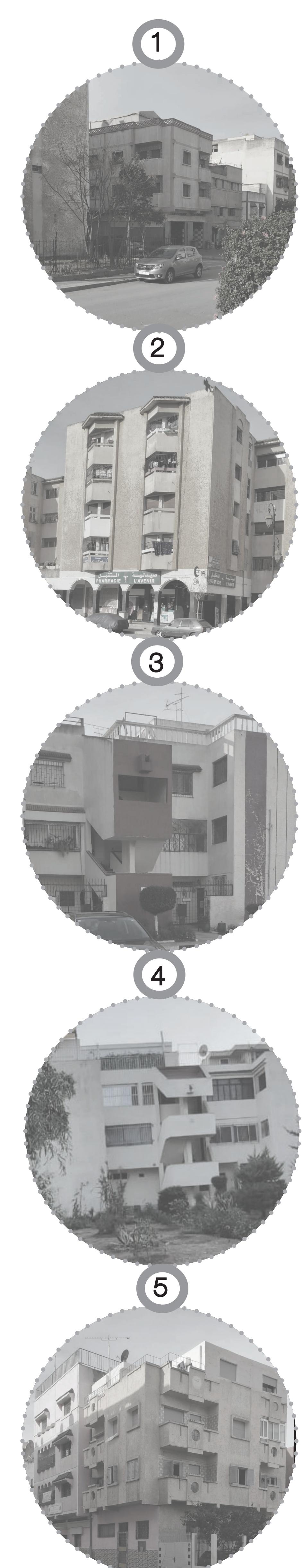
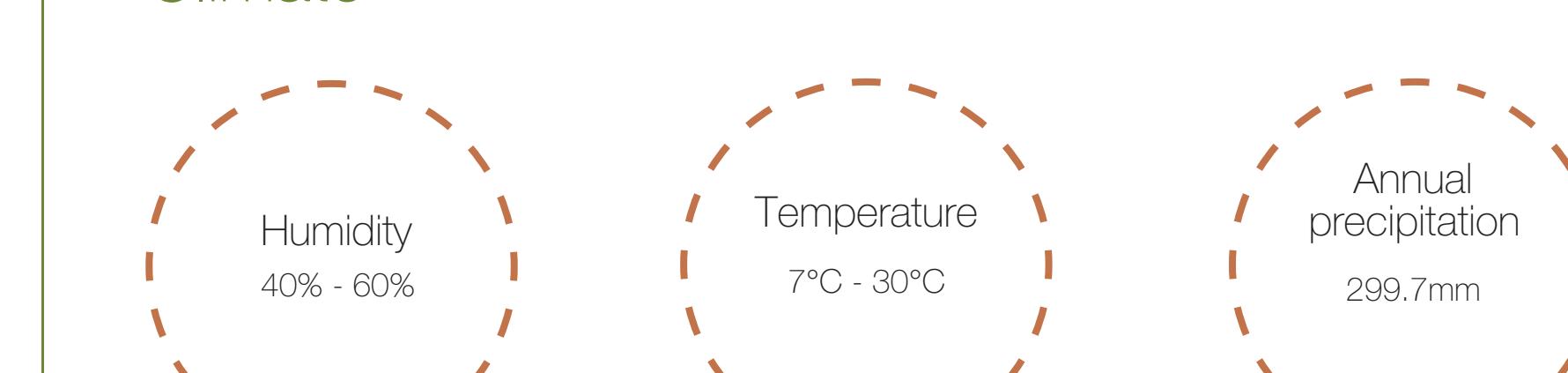
Description

LAND AREA : 2534 m²
 BUILDING AREA : 1567 m²
 TOPOGRAPHY : Flat terrain
 NUMBER OF FLOORS : 2 Floors

Urban area use



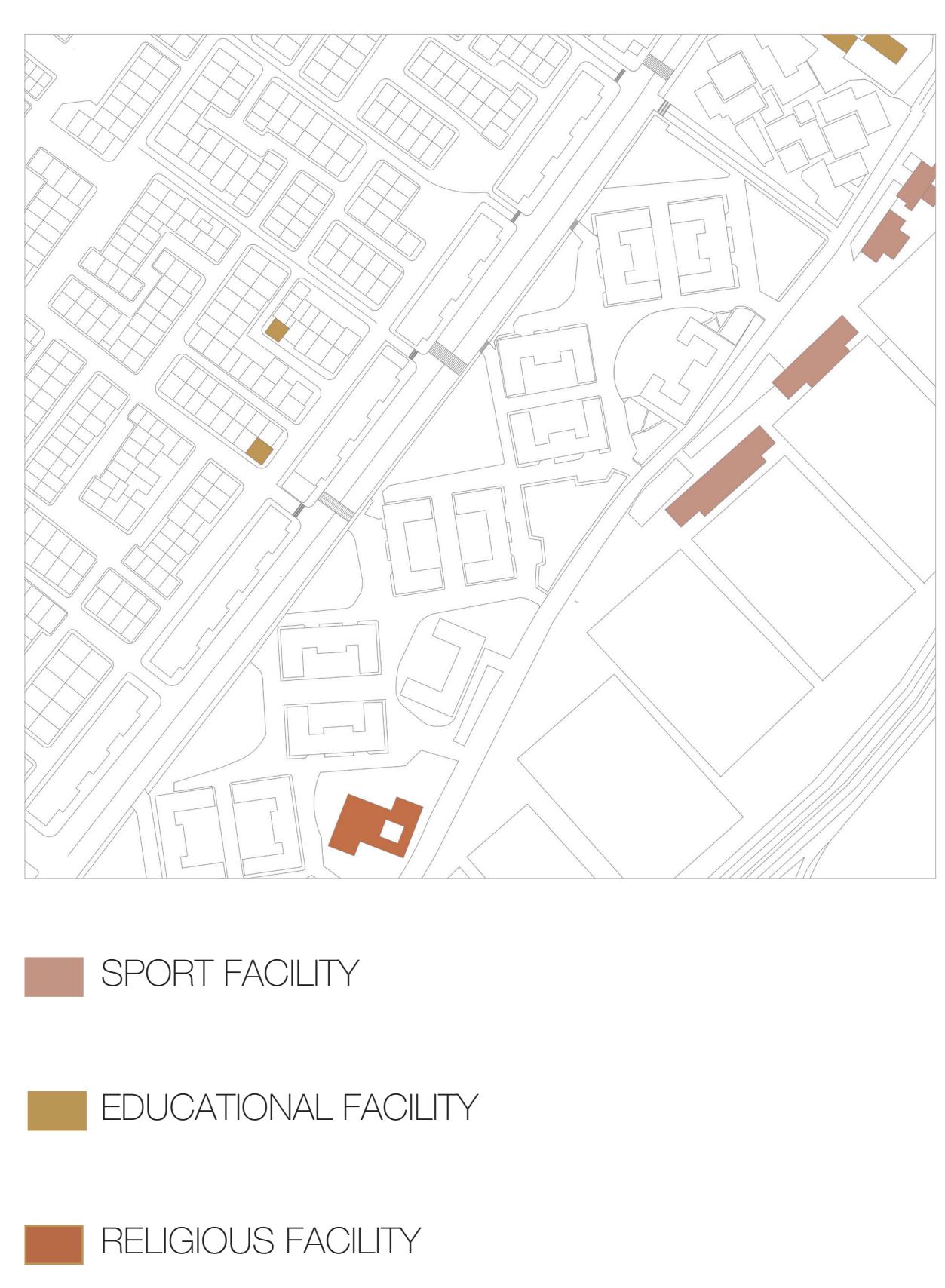
Climate



URBAN INTERVENTION



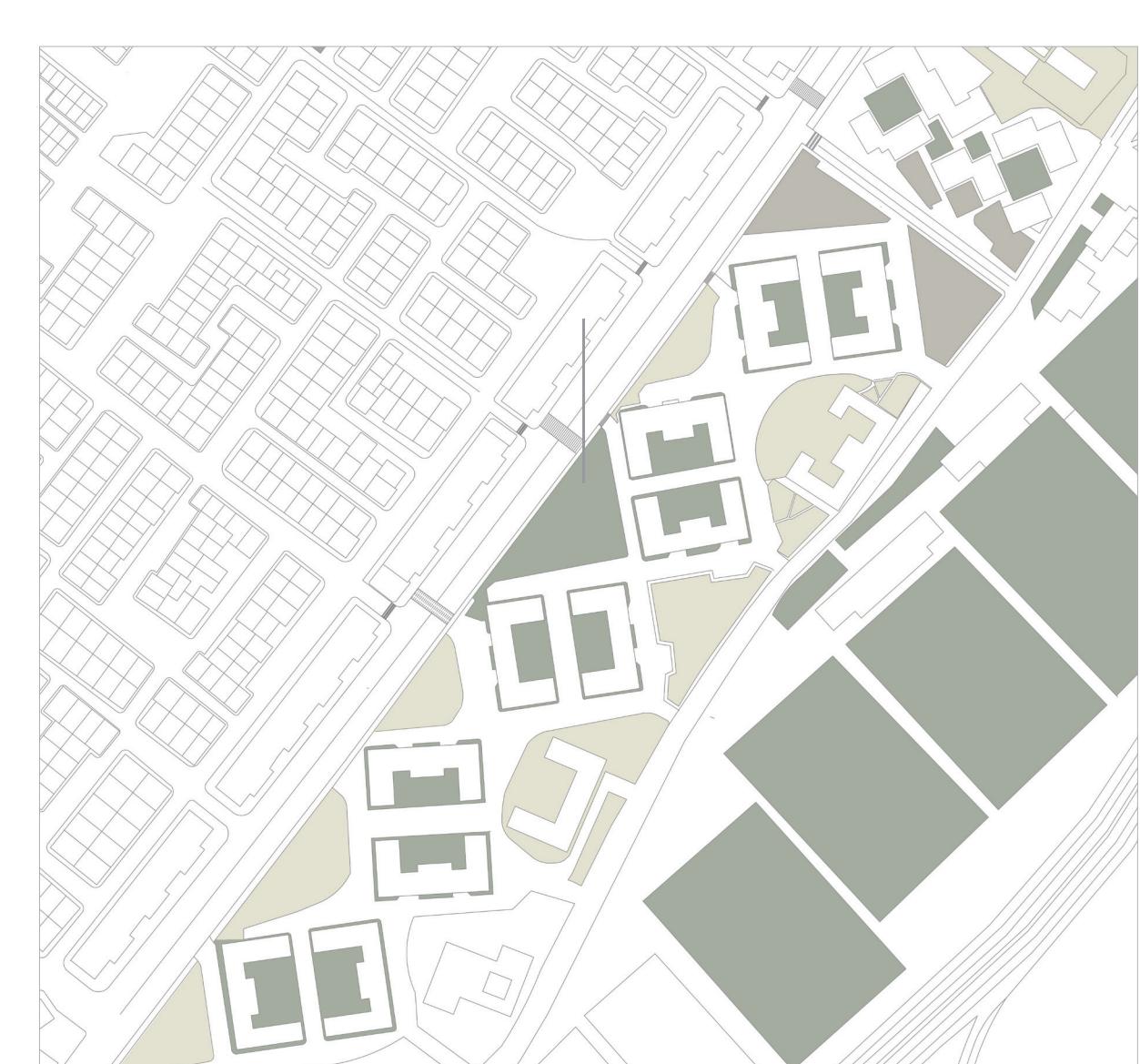
FUNCTIONAL MAPS



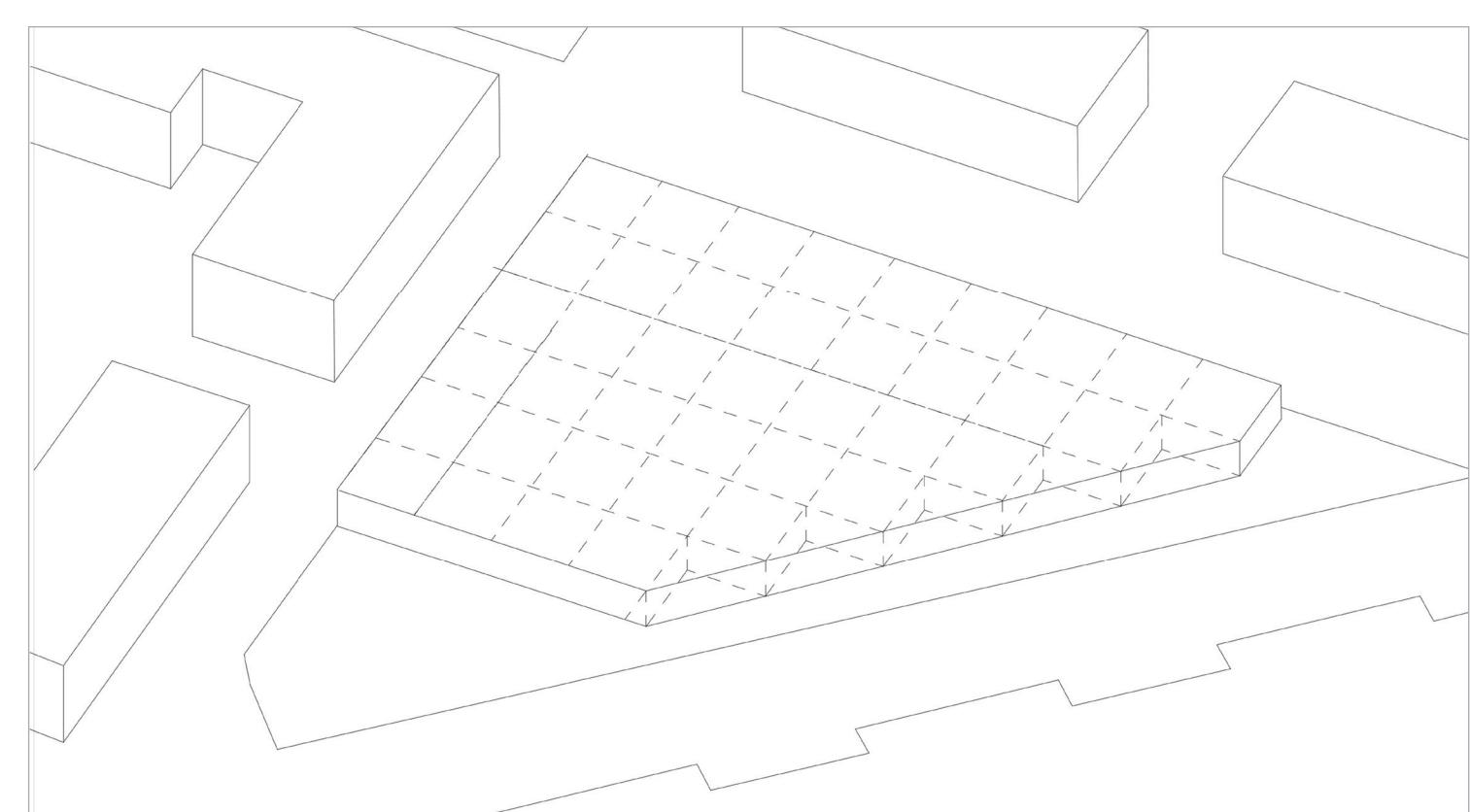
SITE PLAN



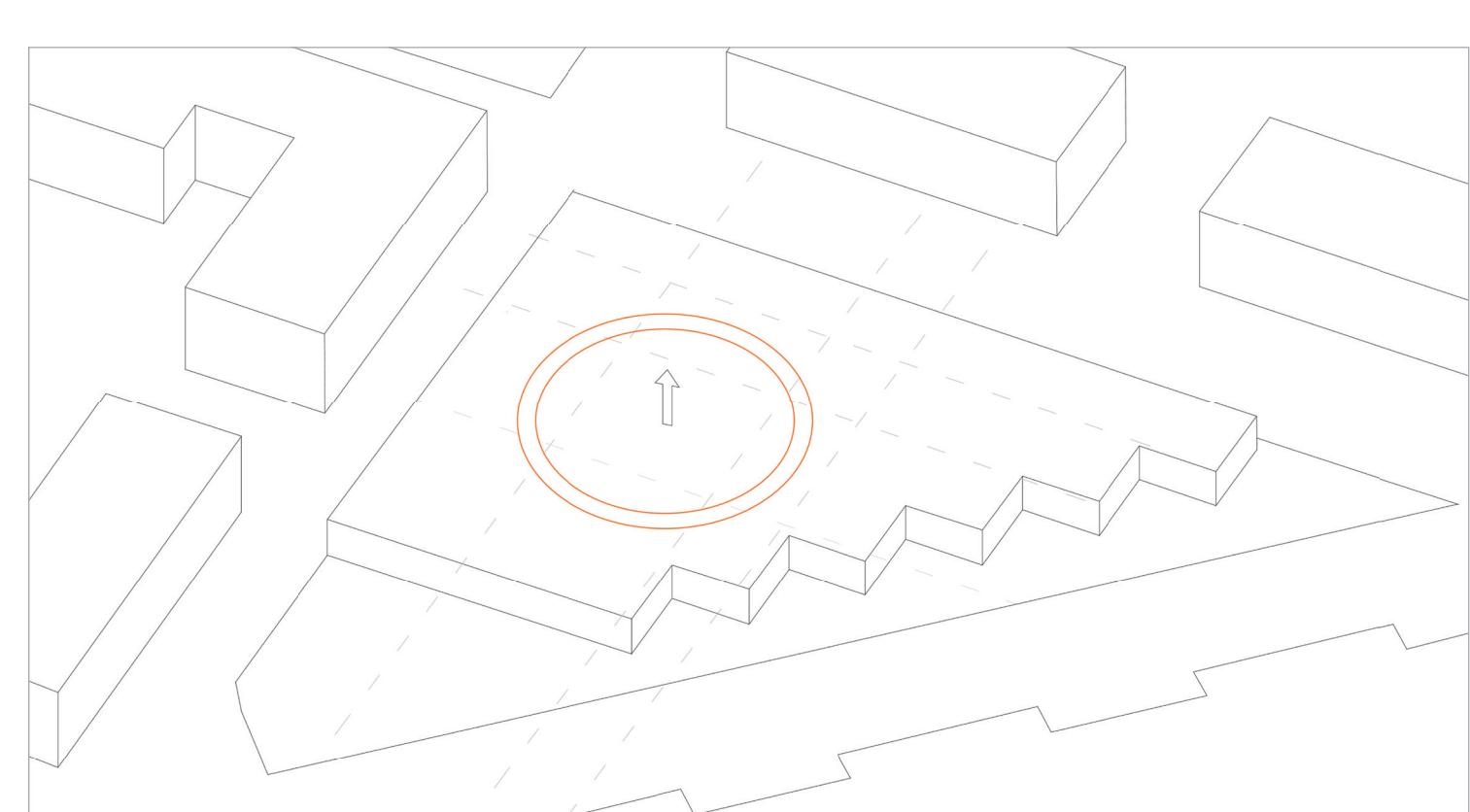
GREENERY MAPS



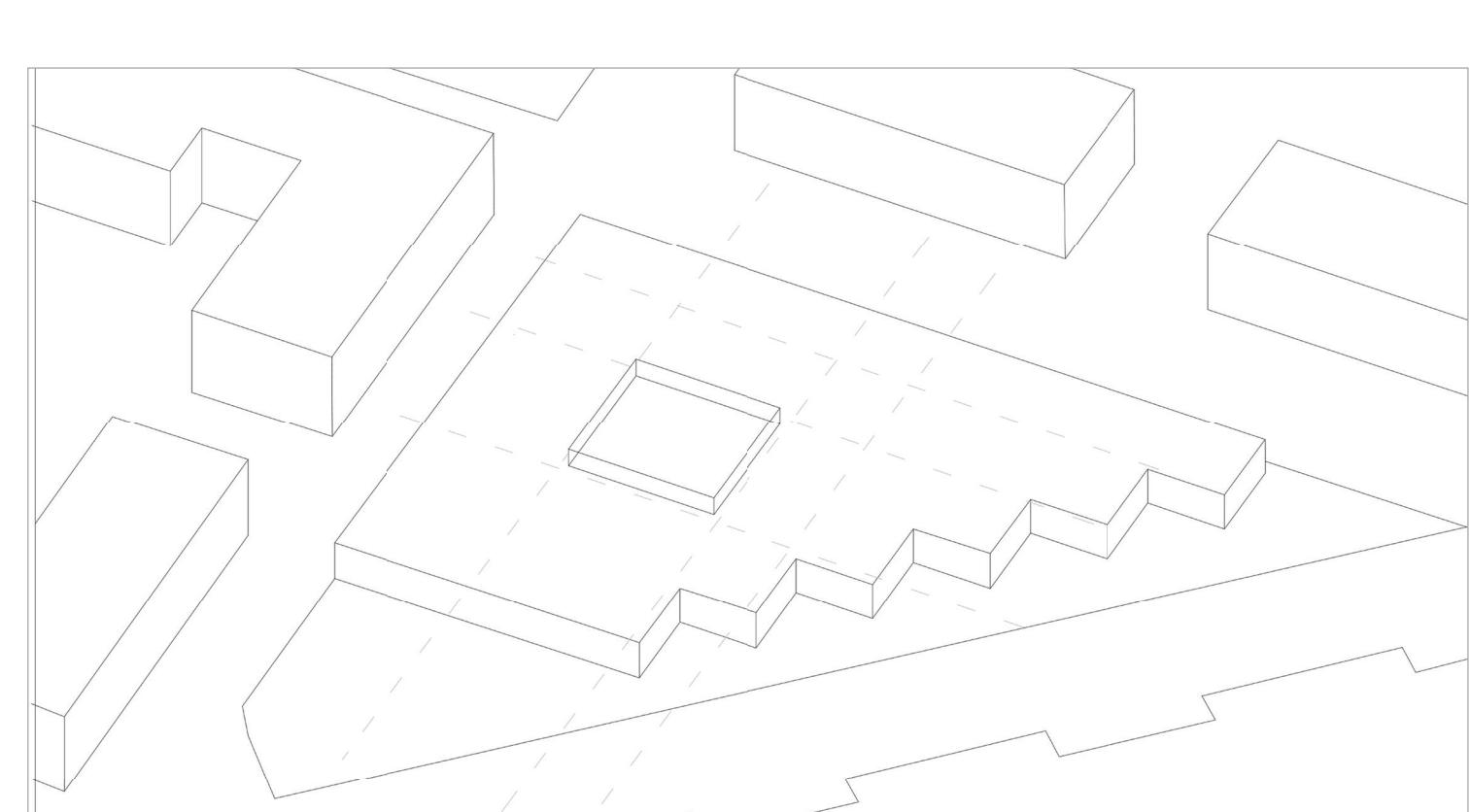
MASSING MAP



Dividing the space into smaller units

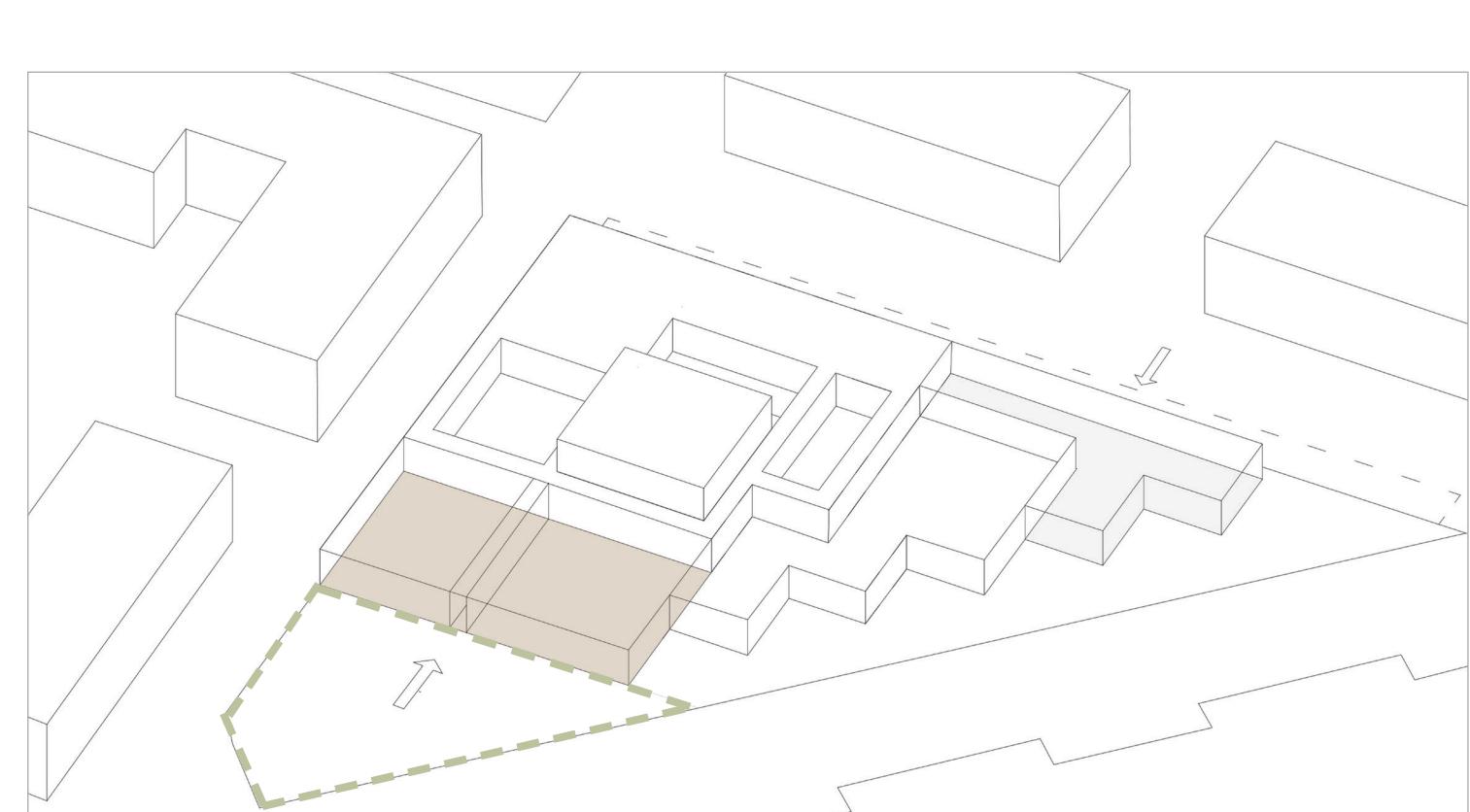


Specifying a central location for the Salla room

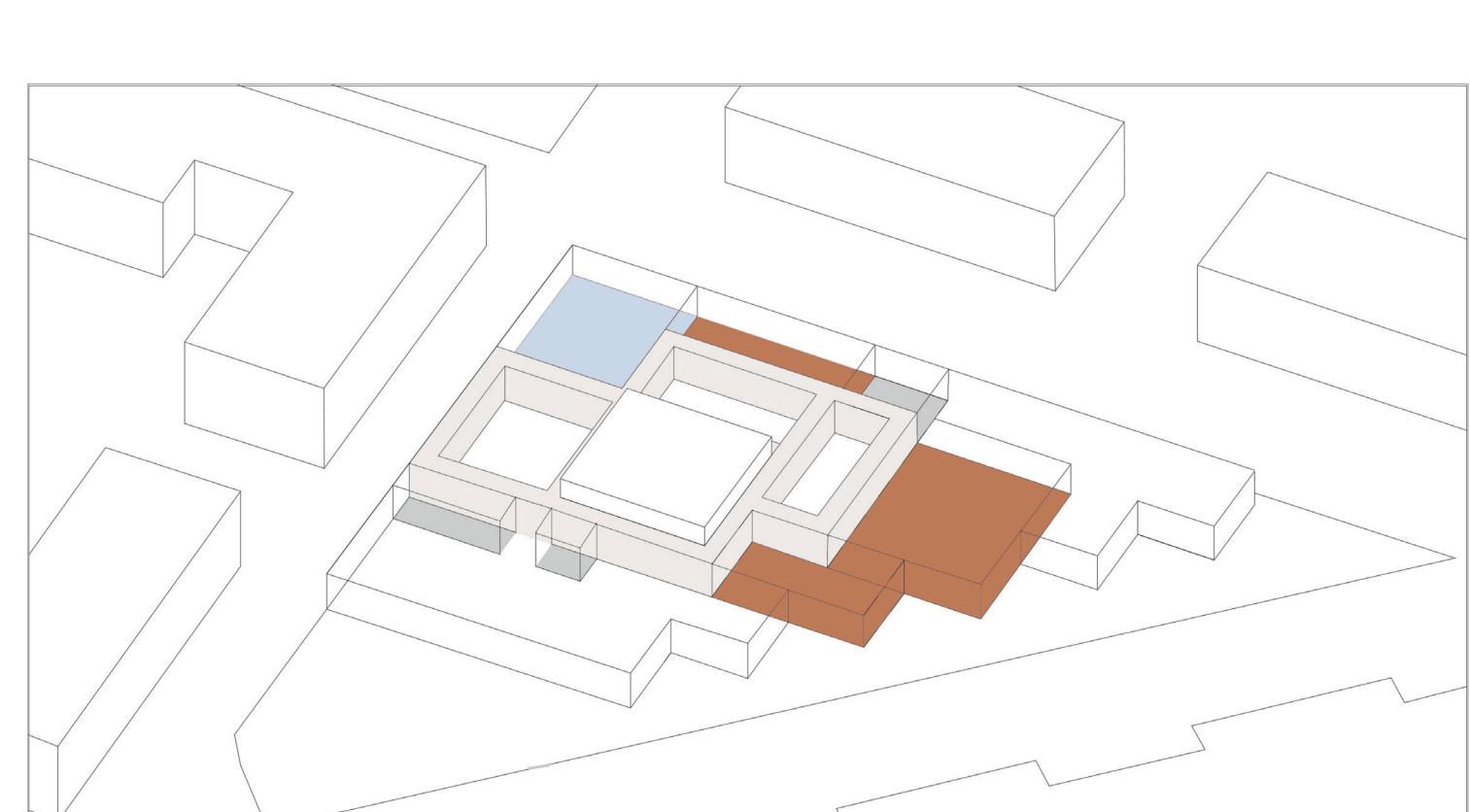


Accentuating the height of the Salla room

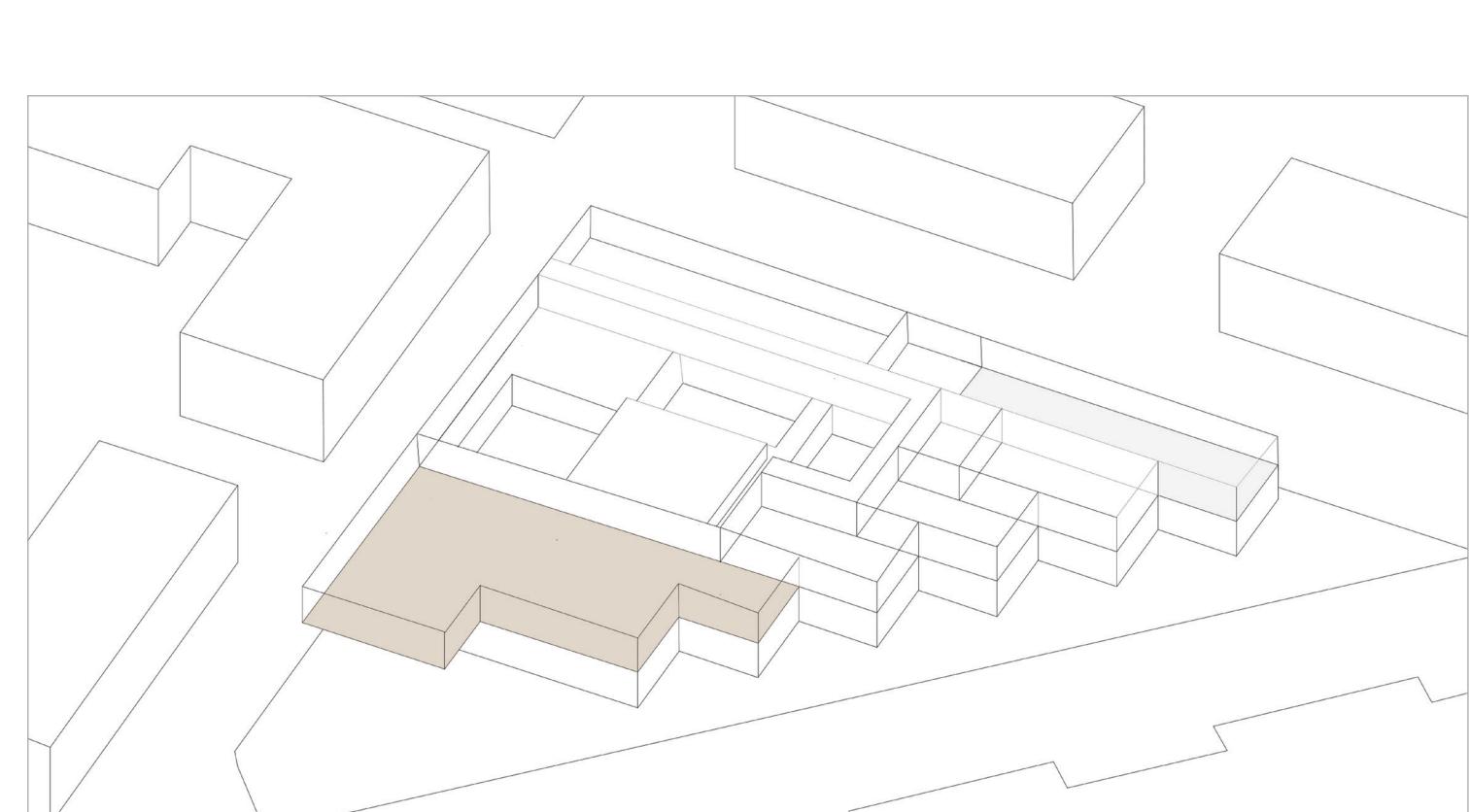
Salla room is a central hub for communication, it is the space where all users of the building can come together.



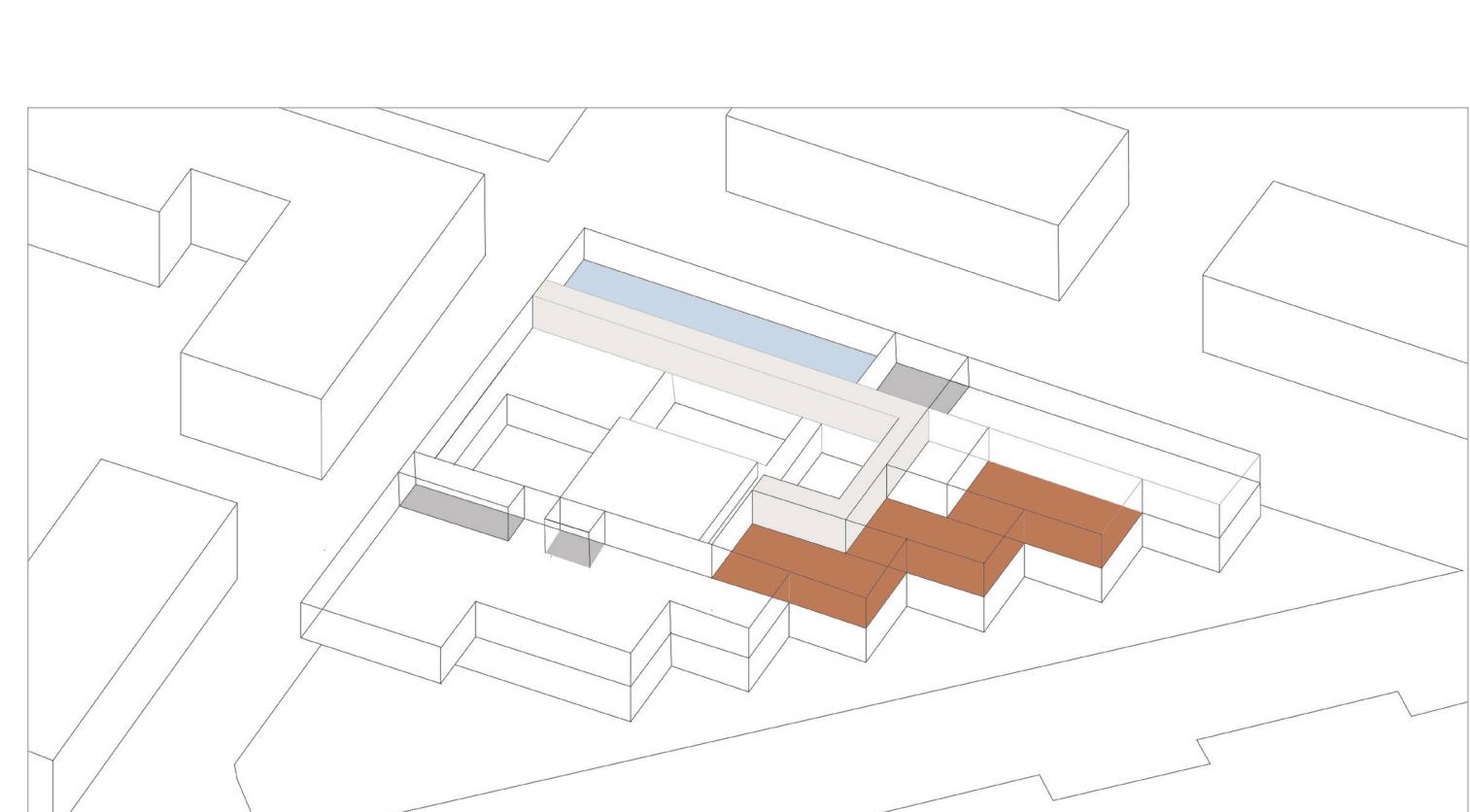
Defining the public zone , and the utilitarian zone both with seperate entrances



Laying out the main functions around the courtyards .Creating an easy vertical and horizontal circulation .Asssing adequate space for complementary function



Extending the public zone to the first floor



Defining the location of the main functions within the first floor. Keeping an easily accessible horizontal circulation Aligning the complementary functions with the corridor

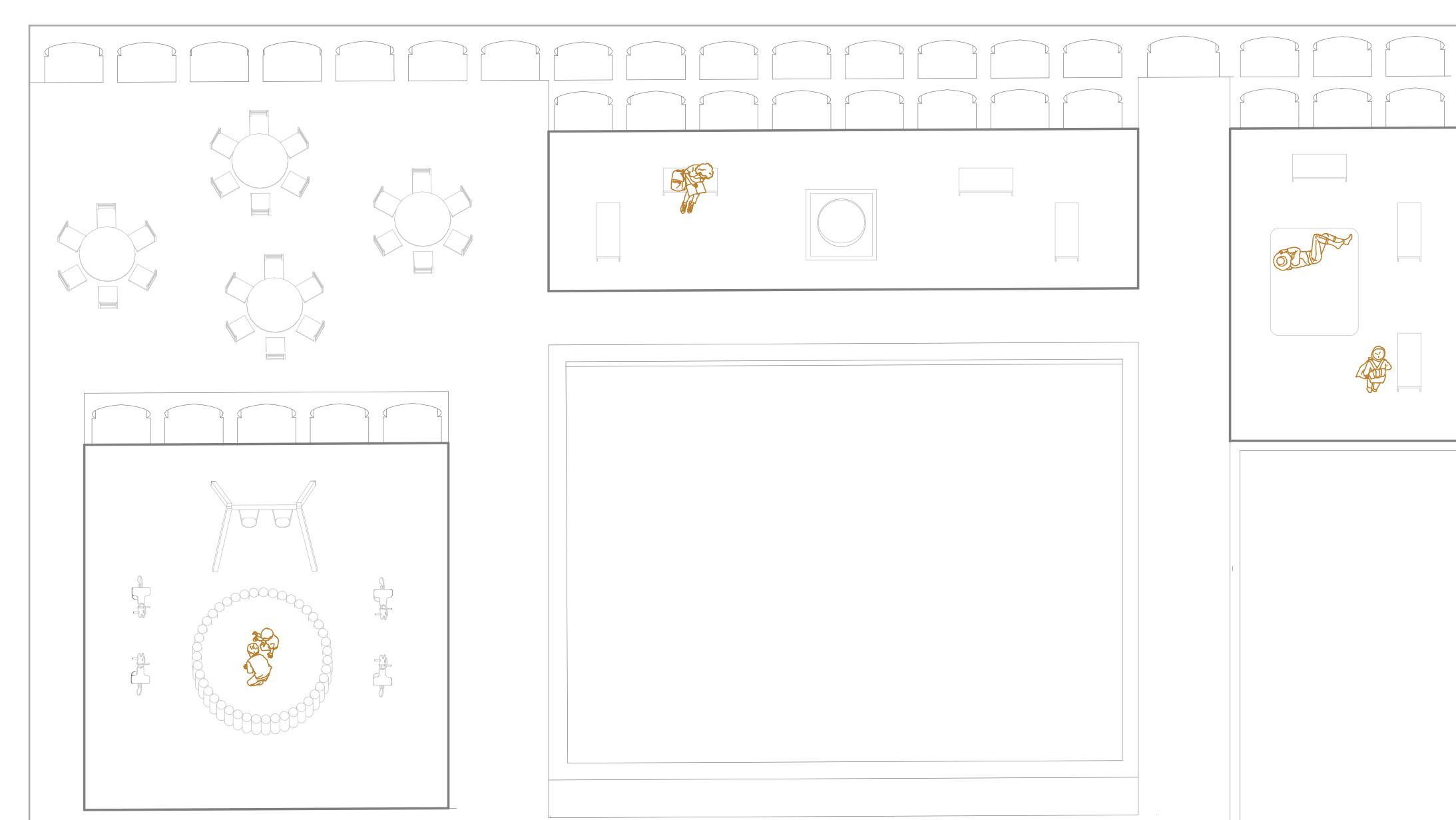
LEGEND

- Primary functions
- Complementary functions
- Vertical circulation

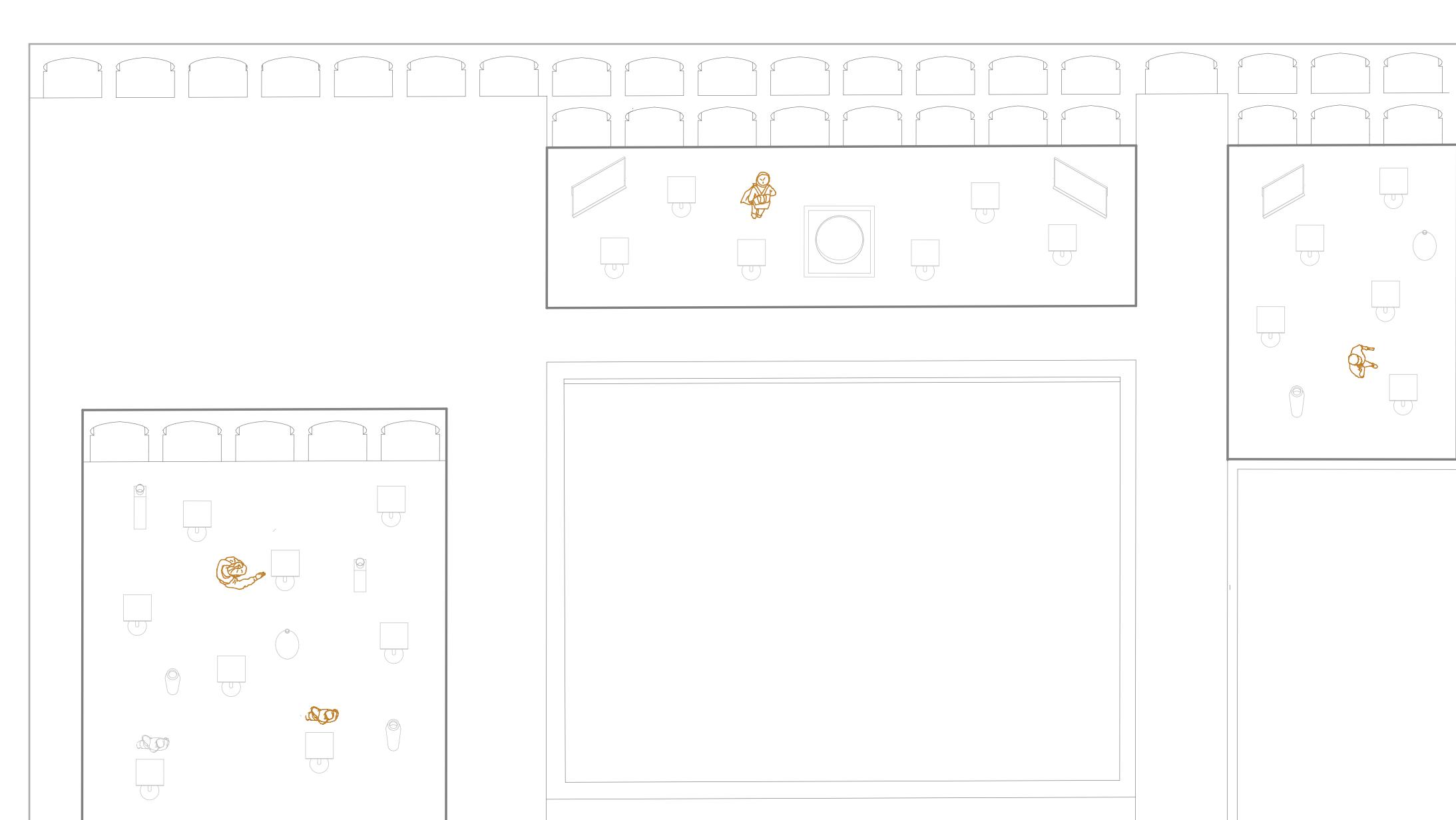
- Public functions
- Horizontal circulation
- Utilitarian functions

COURTYARD USAGE ALTERNATIVES

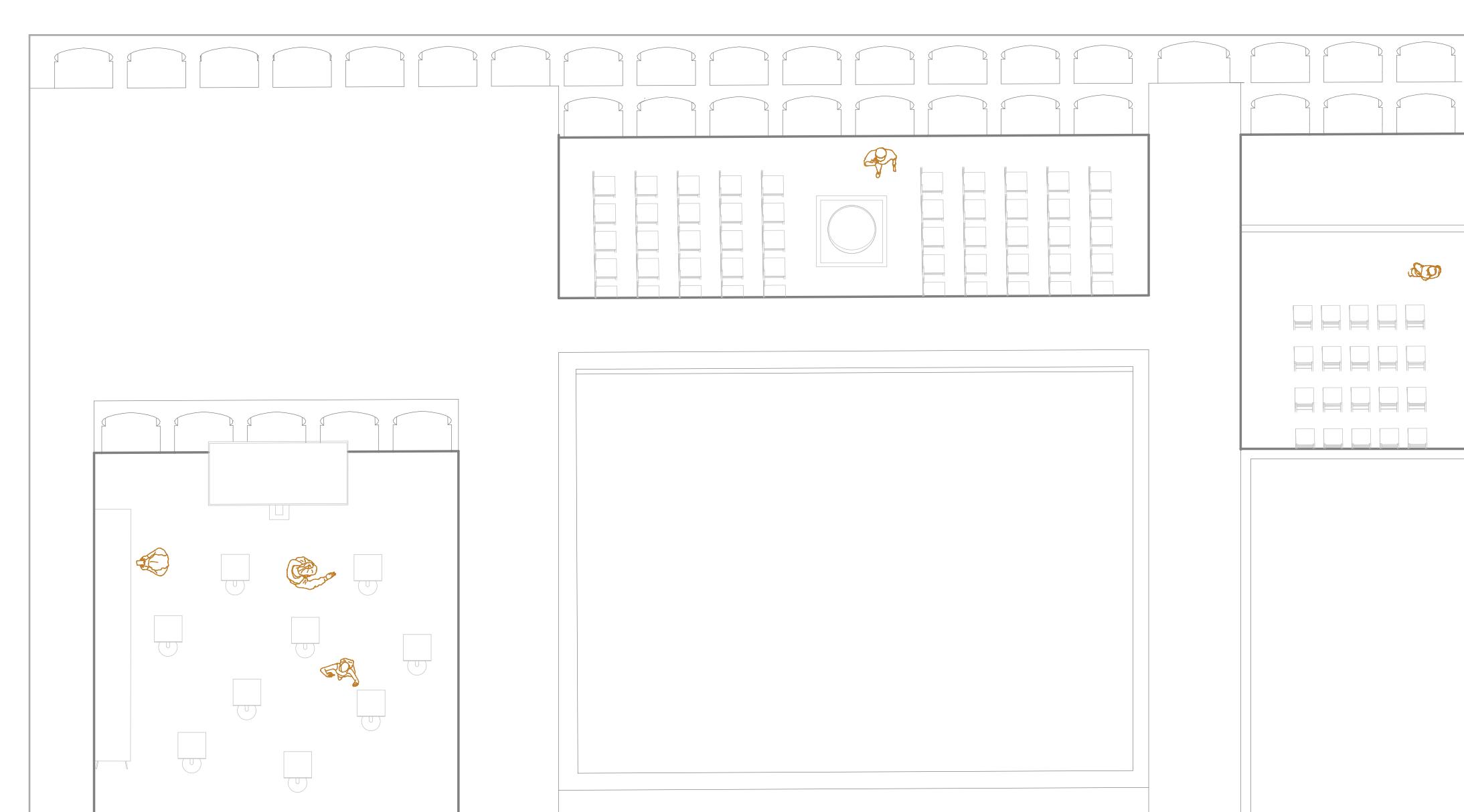
RECREATIONAL SPACE



EXHIBITION SPACE

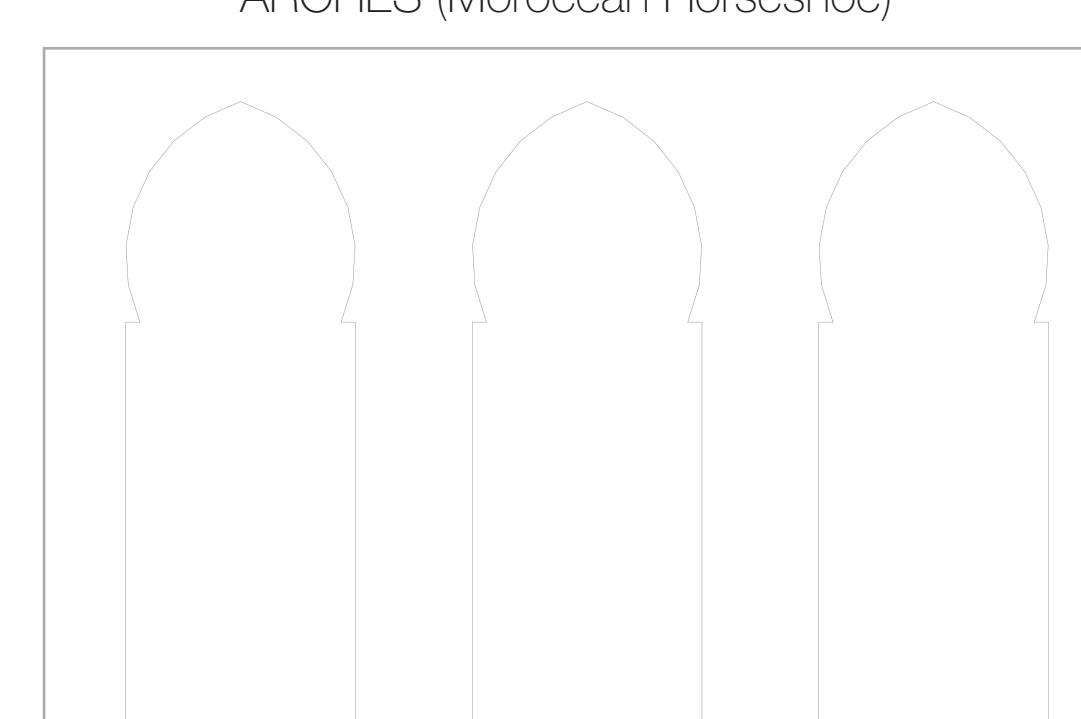


ANDALUSIAN MUSIC EVENT

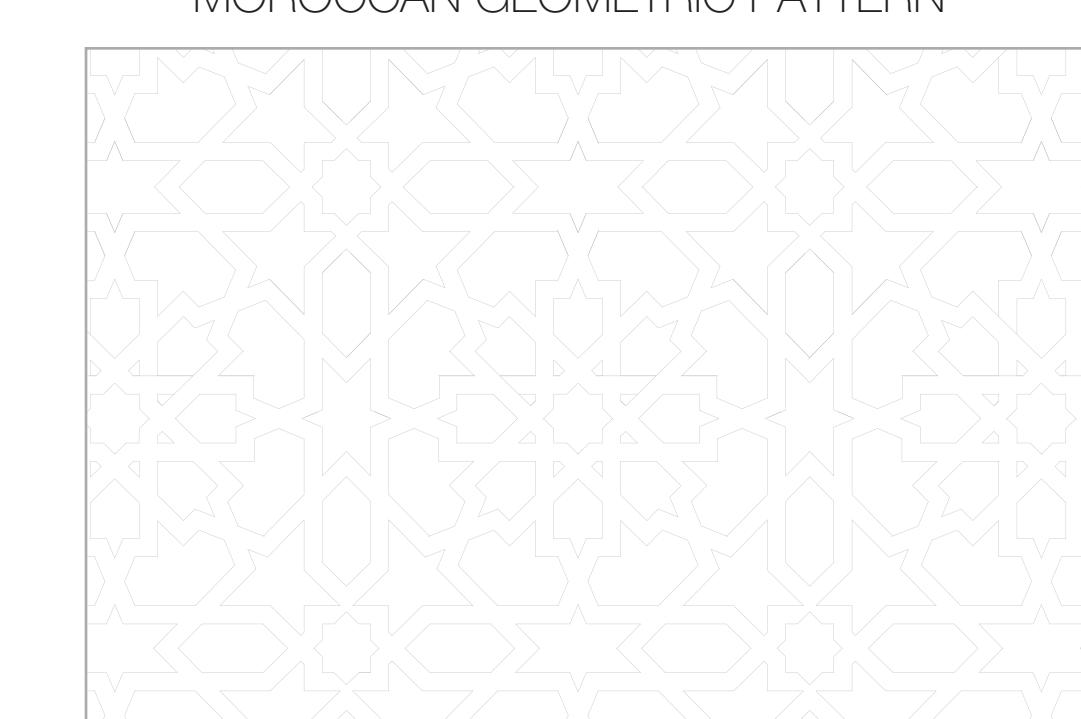


TRADITIONAL ARCHITECTURAL ELEMENTS

ARCHES (Moroccan Horseshoe)



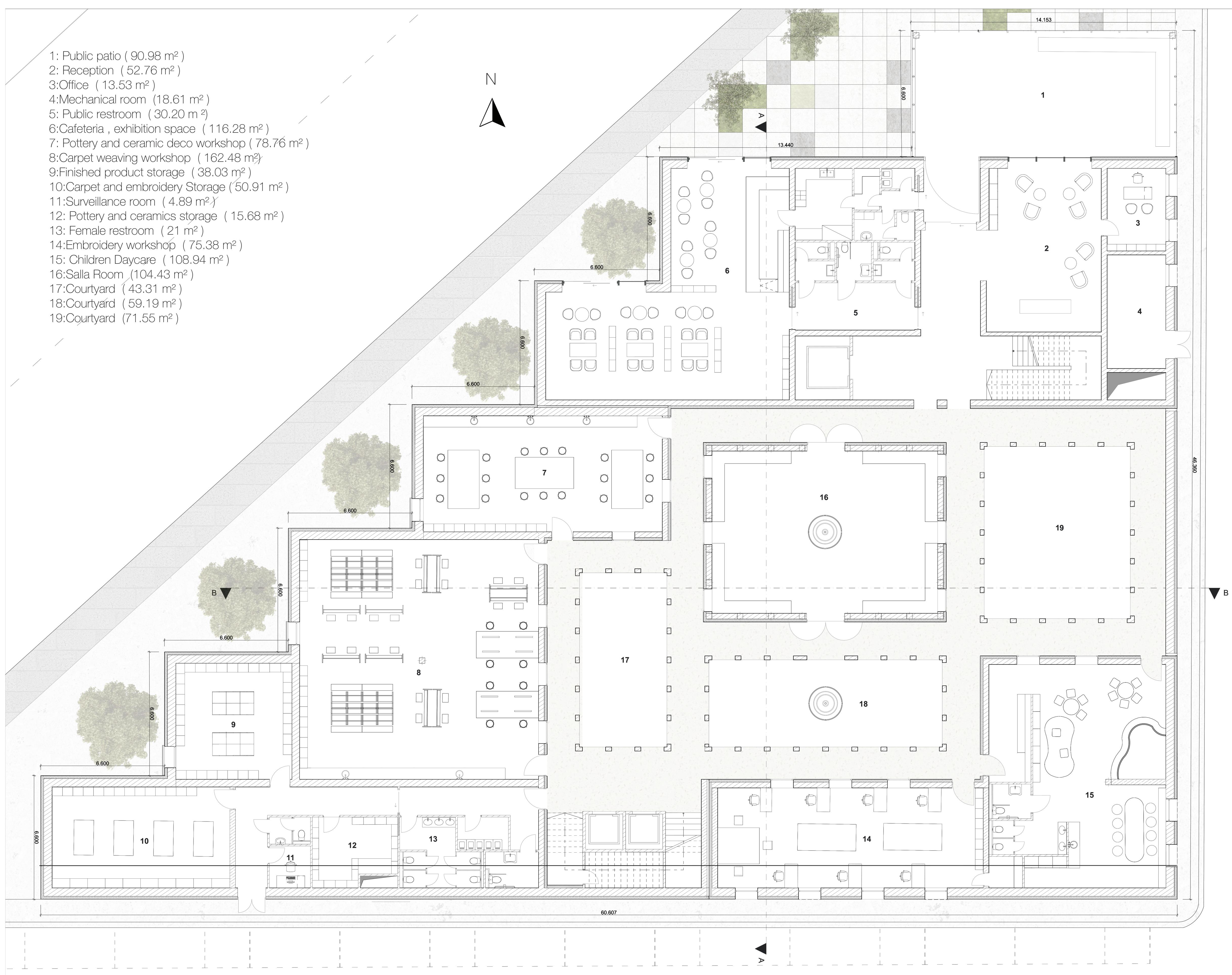
MOROCCAN GEOMETRIC PATTERN



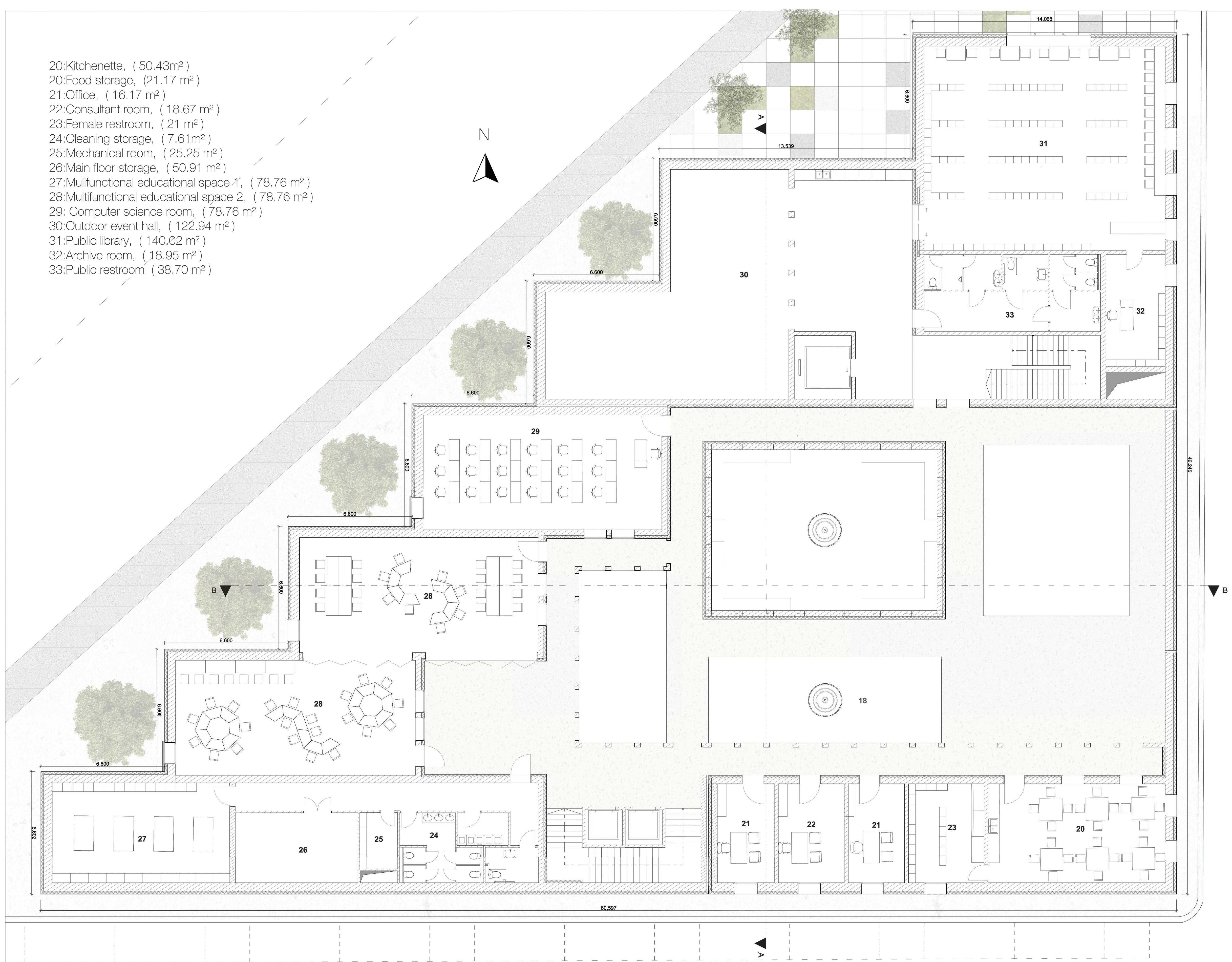
WINDOW /DOOR STYLES



GROUND FLOOR



FIRST FLOOR



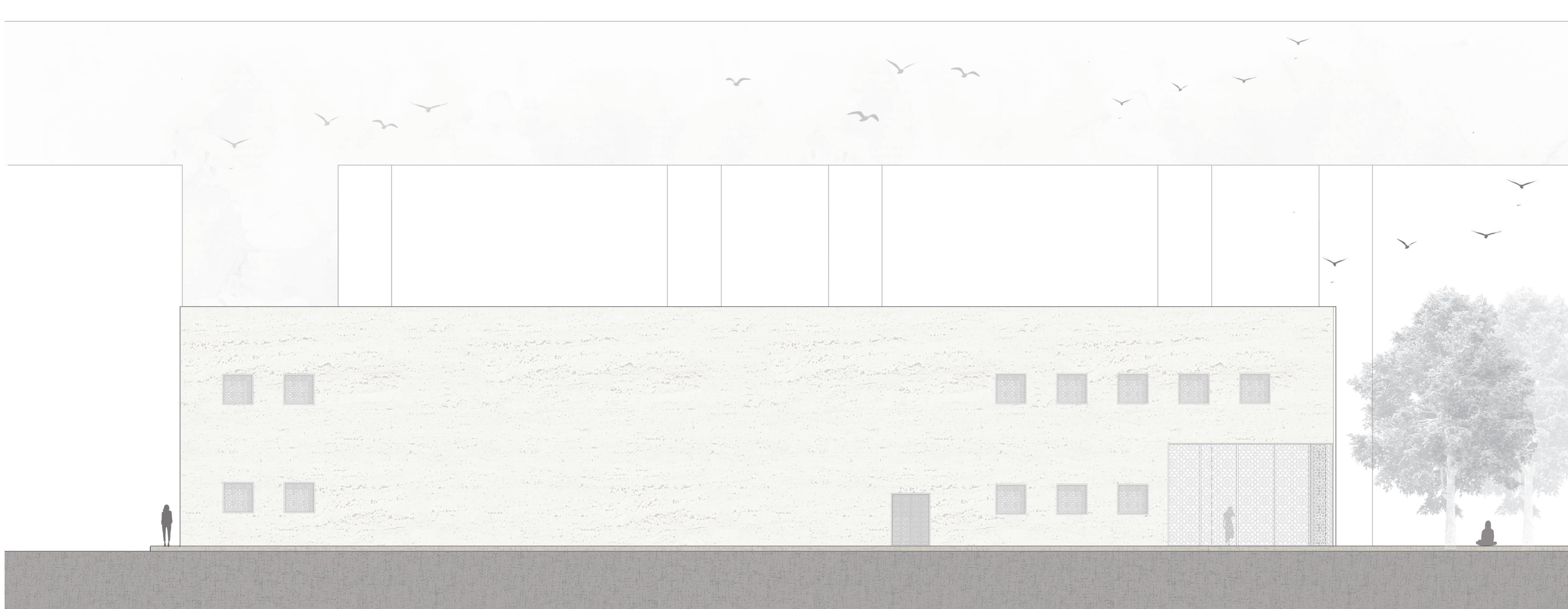
NORTHERN FACADE



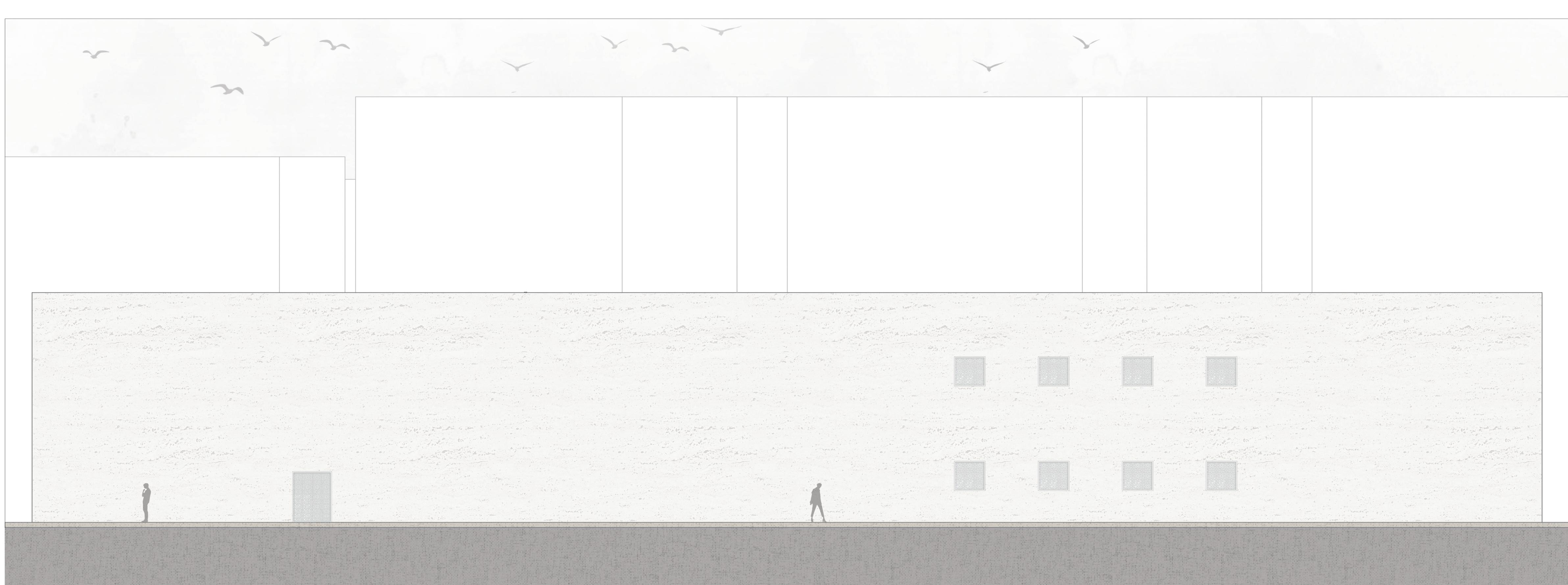
WESTERN FACADE



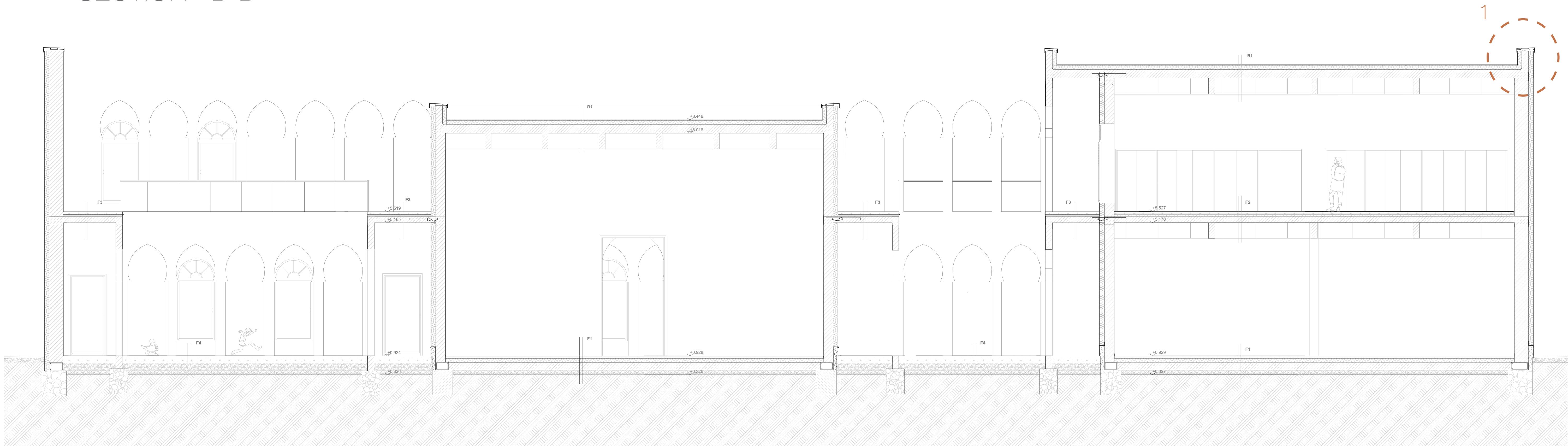
EASTERN FACADE



SOUTHERN FACADE



SECTION B-B



F1: GROUND FLOOR SLAB
 7mm porcelain tiles
 5mm self leveling smoothing compound
 70mm Concrete screed
 1 layer of PE technological foil
 12cm EPS thermal insulation
 1layer of PVC waterproofing sheet
 24 cm monolithic reinforced concrete slab
 15cm Gravel bed
 Subsoil

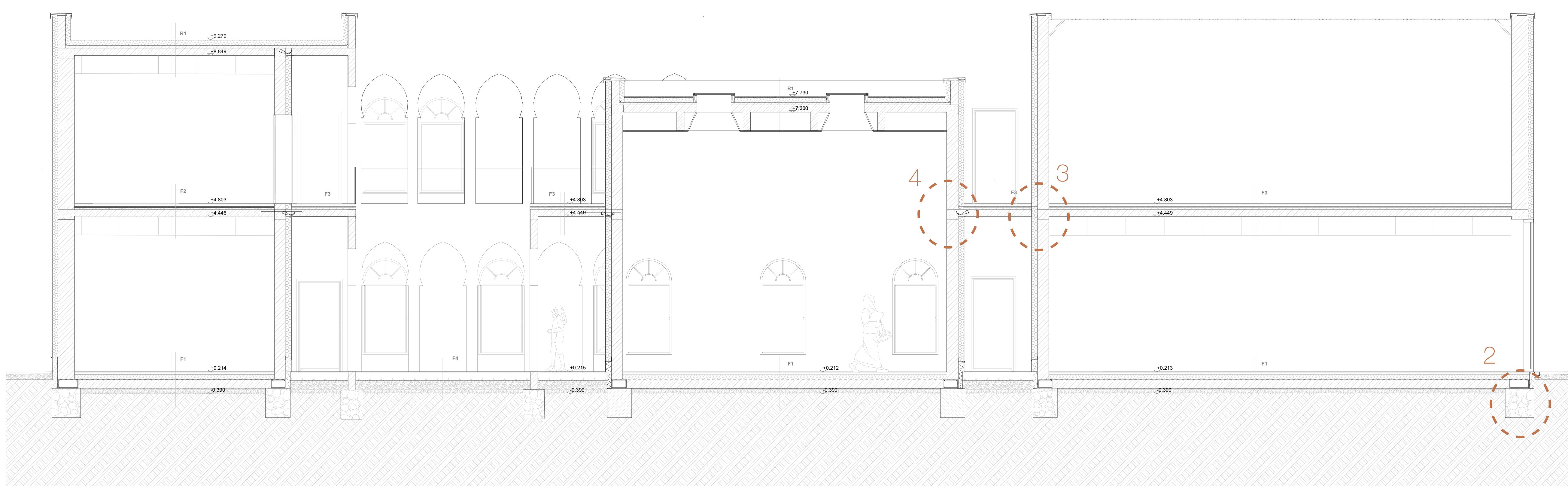
F2: GENERAL SLAB
 7mm porcelain tiles
 5mm self leveling smoothing compound
 65 mm Concrete screed
 1 layer of PE technological foil
 25 mm Mineral wool (floating layer)
 50mm EPS foam installation layer
 20 cm monolithic reinforced concrete slab
 2mm internal cladding: matte acrylic paint

F3: TERRACE SLAB
 7mm porcelain tiles
 5mm self leveling smoothing compound
 60mm concrete screed
 Dimple sheet (Drainage layer)
 1layer of PE technological foil
 23 mm Mineral wool (floating layer)
 2% inclination layer concrete screed
 20 cm reinforced concrete slab
 2mm internal cladding :Matte acrylic paint

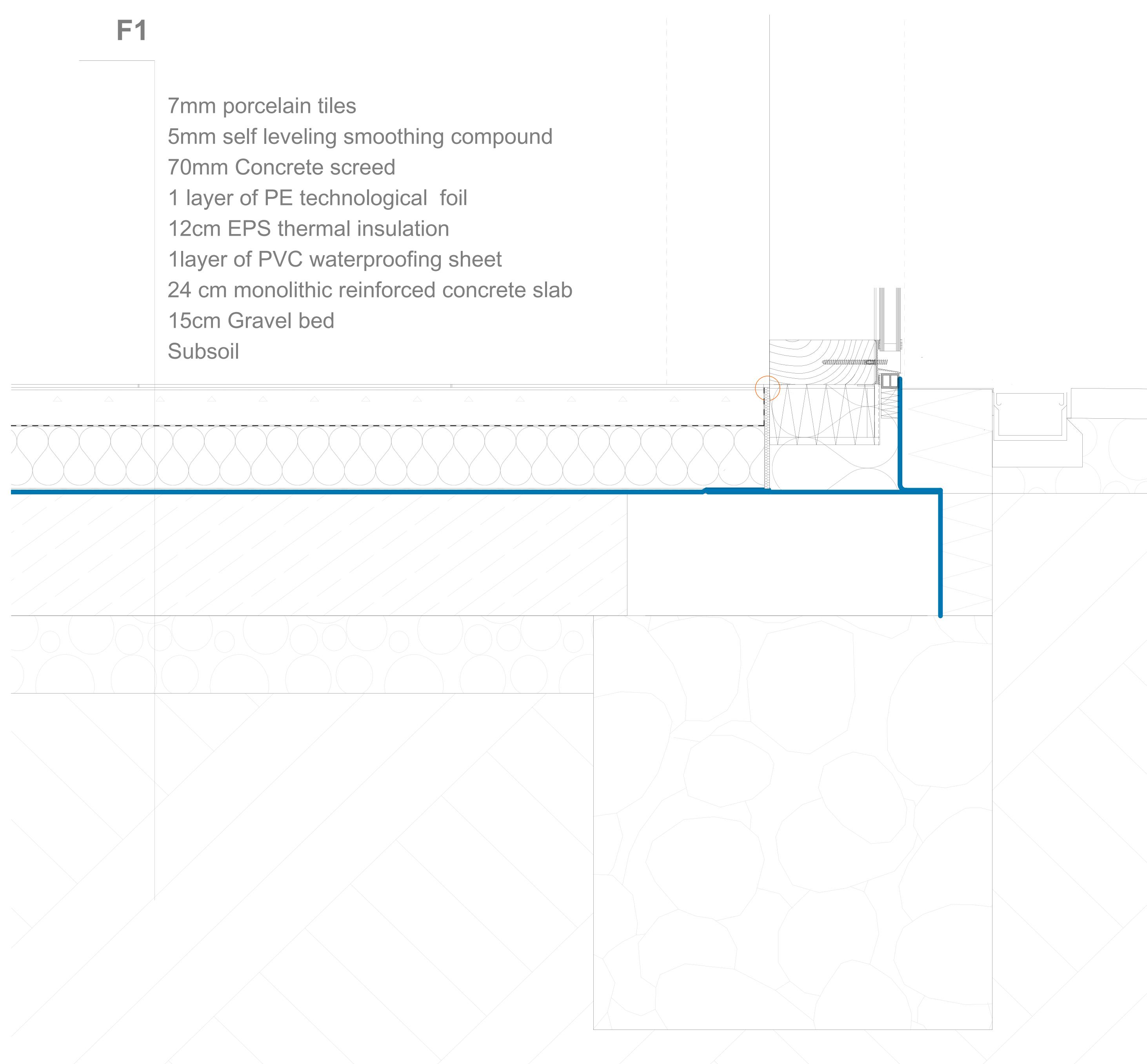
F4: COURTYARD SLAB
 33,7 cm gravel bed
 22,3 cm screed inclination layer
 5mm Self leveling smoothing compound
 7mm ceramic tiles

R1 ROOF SLAB UNEXPLOITED
 5cm Gravel ballasting
 Synthetic layer
 20cm XPS thermal insulation
 SBS modified bituminous waterproofing sheet
 2% inclination layer concrete screed
 20cm reinforced concrete slab
 2mm internal cladding :Matte acrylic paint

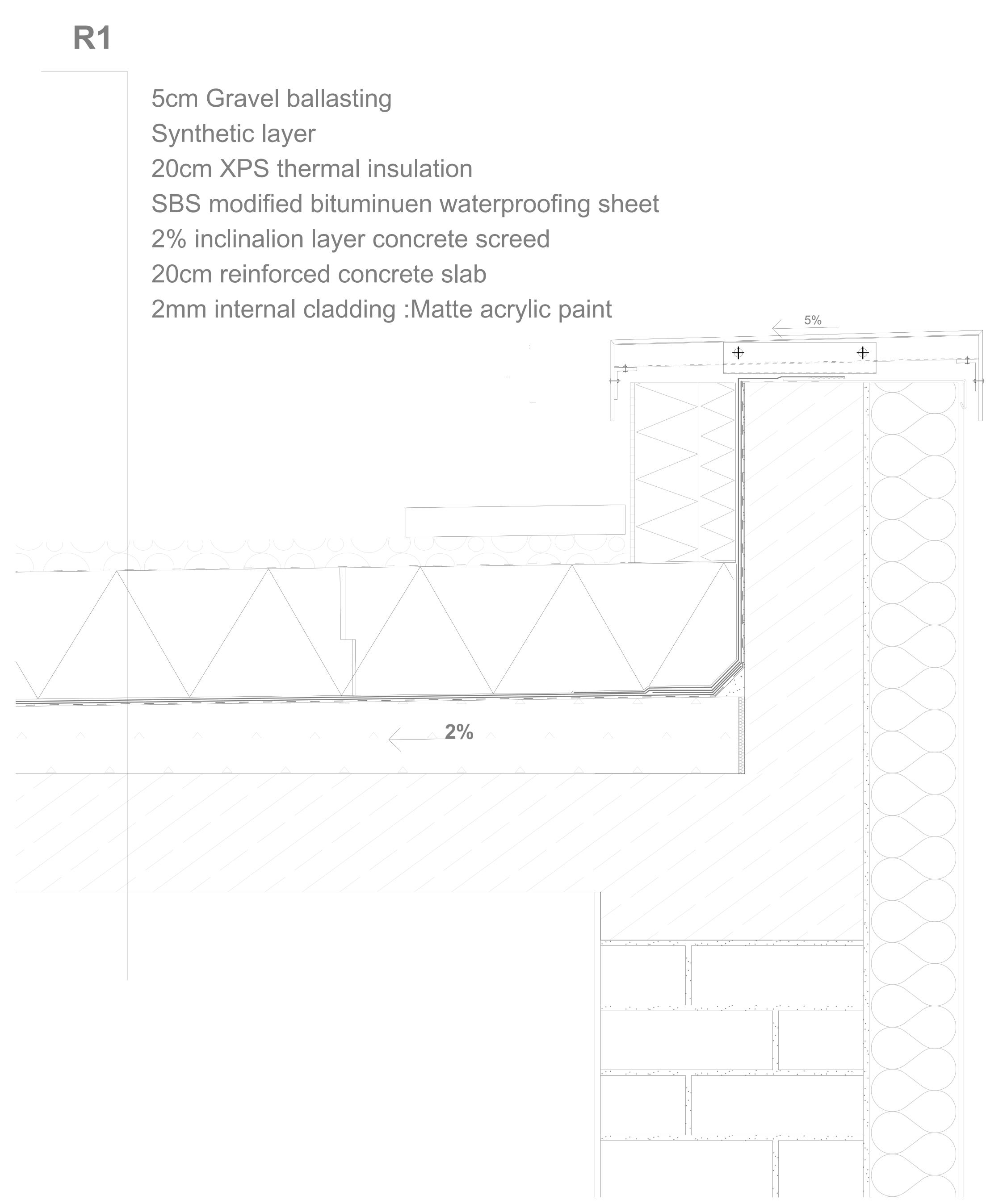
SECTION A-A



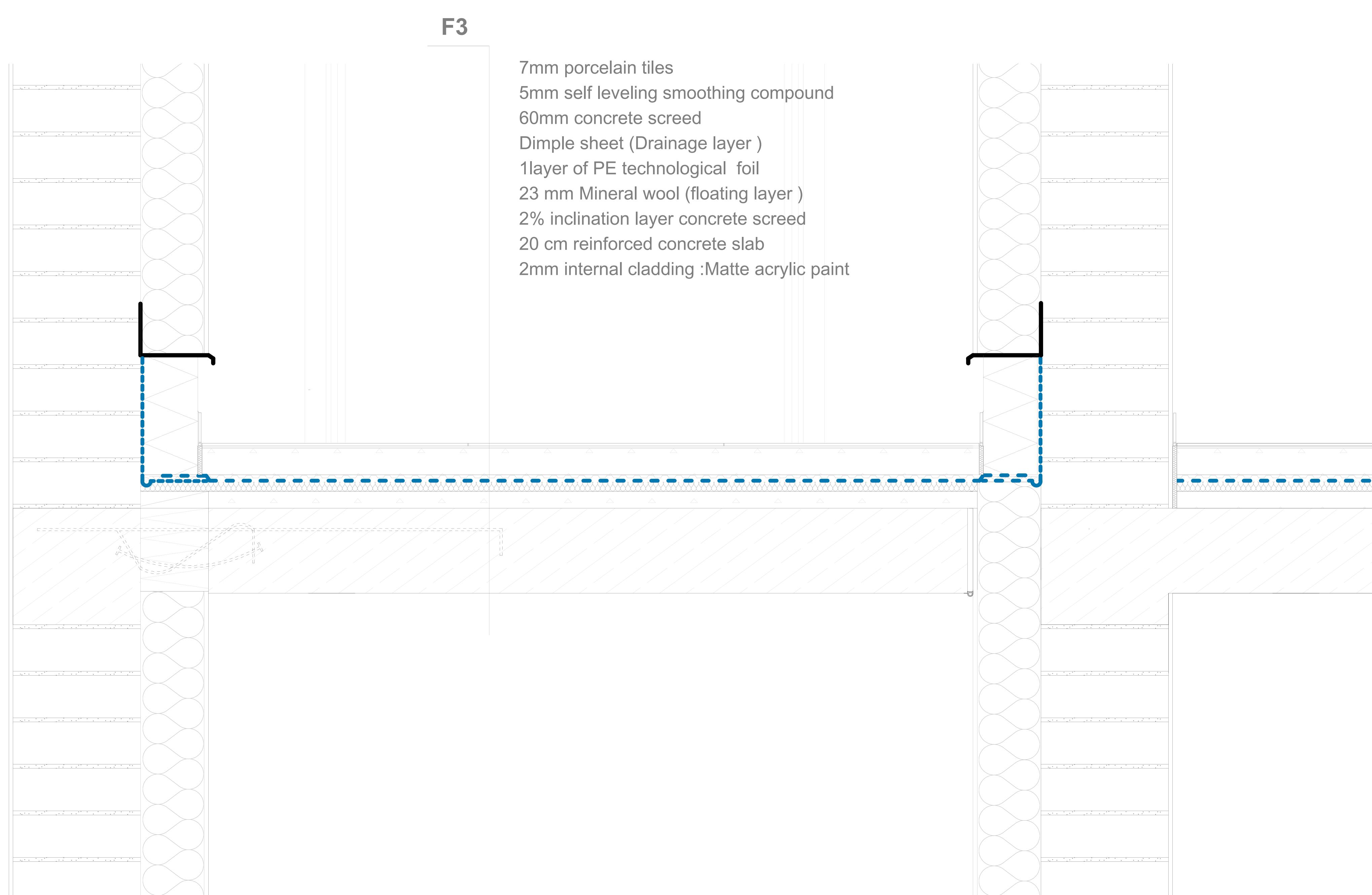
DETAIL 1



DETAIL 2

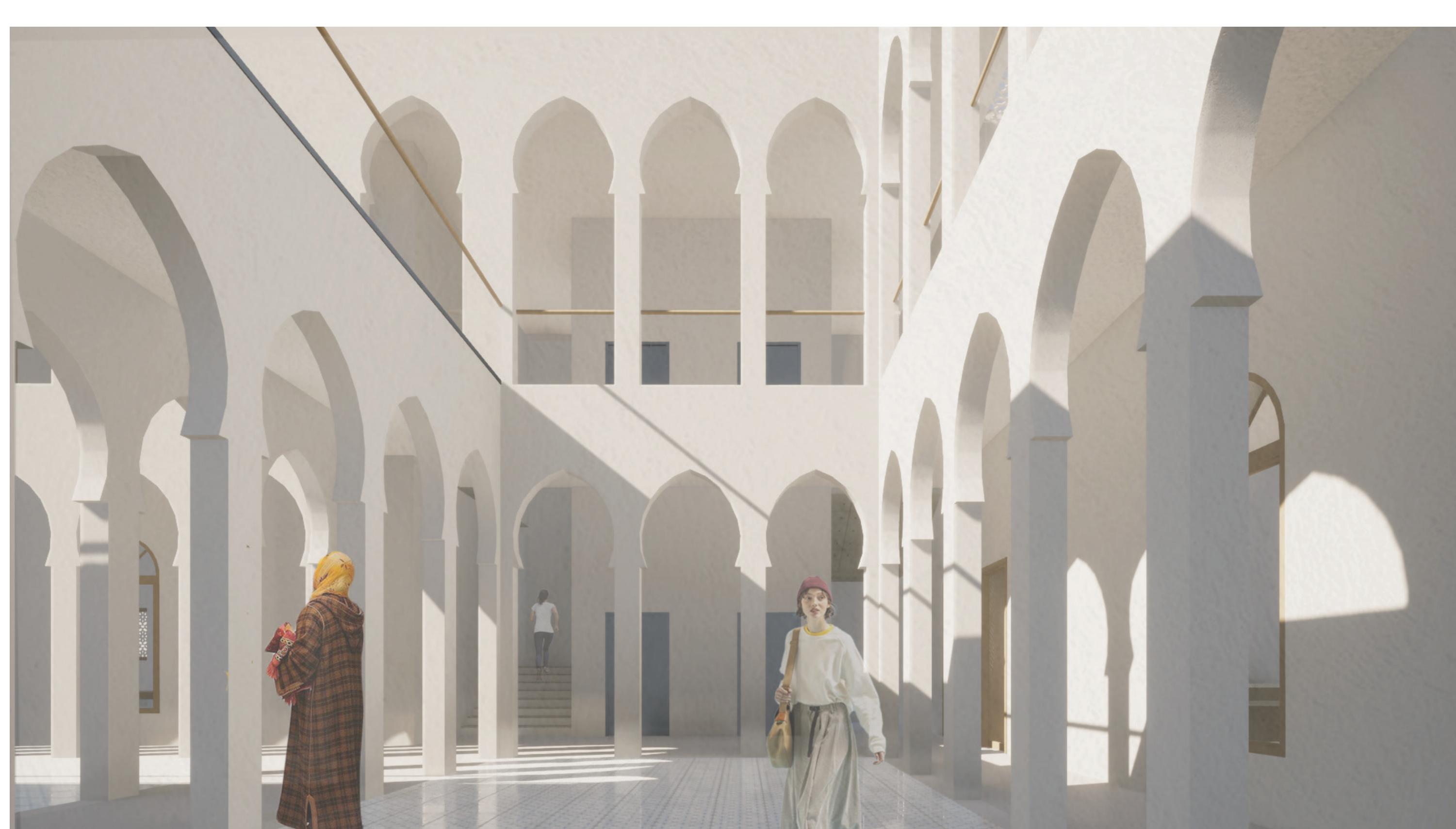


DETAIL 3 and 4



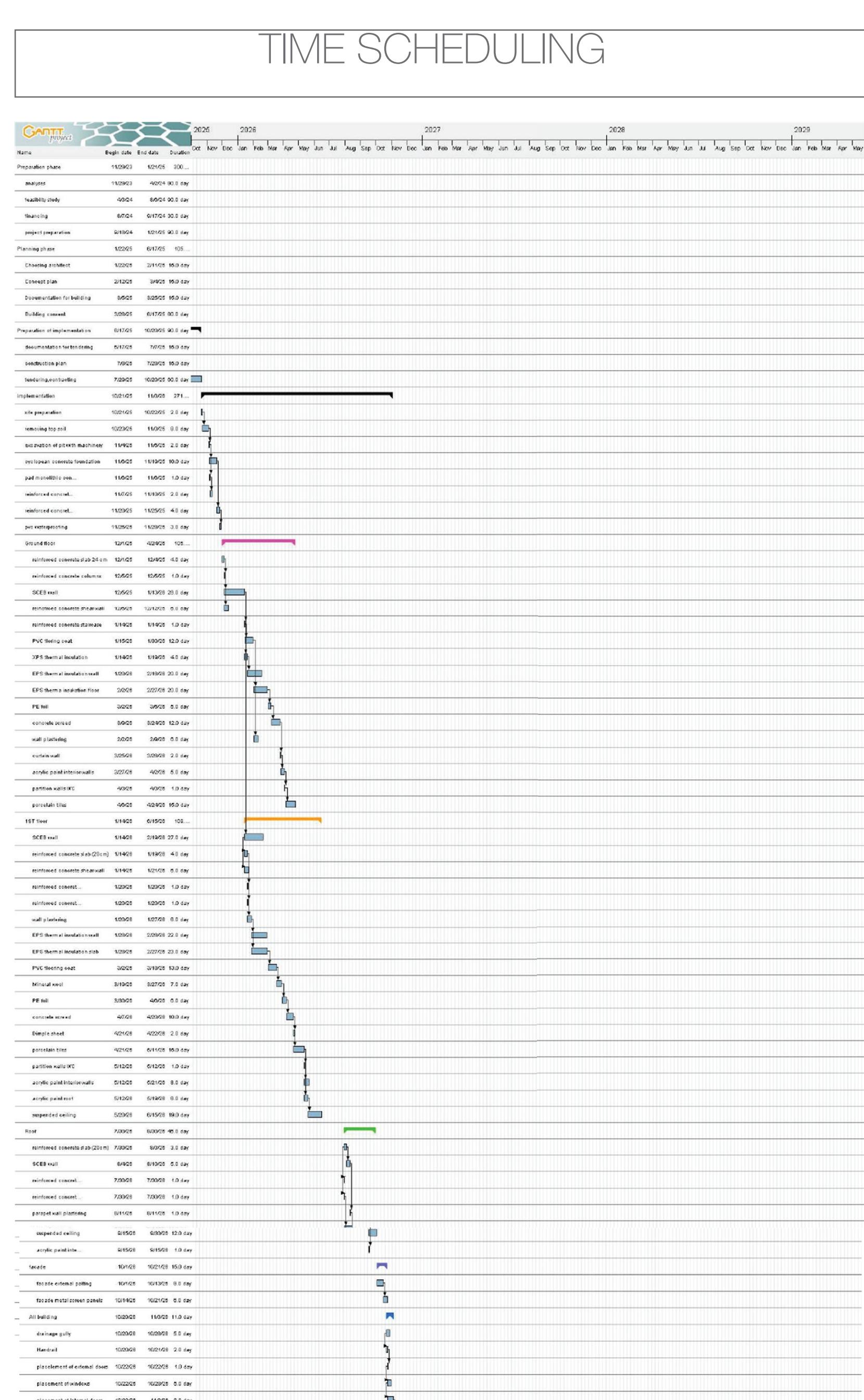
DIPLOMA PROJECT: AL FIHRIYA -CO ///2024
RABAT Yacoub Al Mansour , Al Majd street ///

IMOUZAZ FATIMA EZZAHRA / TUTOR: MELINDA BENKŐ





SPECIALIZED PART : CONSTRUCTION MANAGEMENT



DETAILED COST ESTIMATION

| Task name | Time | unit | Area m ² | Volume m ³ | Piece | Calculation time | Calculation days | Workers | Days with workers | Cost Ft/m ² | Unit | Calculation |
|--|-----------------------|------|---------------------|-----------------------|------------|------------------|------------------|---------|-------------------|------------------------|-------------------|---------------|
| Ground floor | | | | | | | | | | | | |
| reinforced concrete slab (24cm) ground floor | 0.5 h/m ² | | 1566.25 | | 379.9 | 5:15:00 | 42.38875 | 10 | 422.38875 | | ft/m ² | 67,600,000.00 |
| reinforced concrete columns (continued) | 0.8 h/m ² | | 0.09 | 11.988 | 28 | 2:00:04 | 1.15058 | 10 | 0.115058 | | ft/m ² | 1,595,846.00 |
| SCS (24cm) | 0.8 h/m ² | | 177.85 | 28.200 | 560 | 1:45:00 | 0.58050 | 14 | 0.816700 | | ft/m ² | 1,000,000.00 |
| reinforced concrete shear walls | 0.7 h/m ² | | 10.56 | 46.464 | 46 | 3:05:00 | 39.37834 | 6 | 0.650364 | | ft/m ² | 5,517,648.00 |
| reinforced concrete staircase | 0.7 h/m ² | | 0.72 | 0.000 | 1 | 0:45:00 | 0.00000 | 1 | 0.00000 | | ft/m ² | 0.000000.00 |
| partitions walls | 1.3 h/m ² | | 21.27 | 28.645 | 3 | 3:45:00 | 3.18405 | 3 | 0.942015 | | ft/m ² | 204,000.00 |
| EPS thermal insulation (12cm) floor | 1.05 h/m ² | | 1566.25 | 198.125 | 240.000 | 20:00:00 | 200.00000 | 10 | 2,000.00000 | | ft/m ² | 2,000,000.00 |
| EPS thermal insulation (12cm) floor | 1.25 h/m ² | | 1104 | 16.000 | 204.75 | 10:00:00 | 204.75000 | 10 | 20,475.00000 | | ft/m ² | 140,000.00 |
| EPS thermal insulation (12cm) wall | 1.25 h/m ² | | 1104 | 16.000 | 204.75 | 10:00:00 | 204.75000 | 5 | 10,237.50000 | | ft/m ² | 140,000.00 |
| Concrete beams (continued) | 1.25 h/m ² | | 173.04 | 112.9219 | 564.6995 | 20:30:00 | 564.69950 | 10 | 5,646.99500 | | ft/m ² | 10,000,000.00 |
| Concrete beams (continued) | 1.25 h/m ² | | 173.04 | 112.9219 | 564.6995 | 20:30:00 | 564.69950 | 10 | 5,646.99500 | | ft/m ² | 10,000,000.00 |
| PVC floor coating coat (1mm) (full excluded) | 0.15 h/m ² | | 1566.25 | 28.200 | 560 | 1:45:00 | 0.58050 | 14 | 0.816700 | | ft/m ² | 1,117,648.00 |
| PVC floor coating coat (1mm) (full excluded) | 0.15 h/m ² | | 1566.25 | 28.200 | 560 | 1:45:00 | 0.58050 | 14 | 0.816700 | | ft/m ² | 1,117,648.00 |
| acrylic paint, interior walls (2mm) | 0.18 h/m ² | | 5113 | 30.647 | 38.39875 | 7:00:00 | 38.39875 | 7 | 5,472.09750 | | ft/m ² | 6,084,750.00 |
| acrylic paint, exterior walls (2mm) | 0.18 h/m ² | | 5113 | 30.647 | 38.39875 | 7:00:00 | 38.39875 | 7 | 5,472.09750 | | ft/m ² | 6,084,750.00 |
| Curtain walls (frame) | 1.3 h/m ² | | 39.42 | 51.246 | 6,680575 | 3 | 2,130.25 | 3 | 6,390.75000 | | ft/m ² | 2,130.2500 |
| porcelain tiles (frame) | 1.3 h/m ² | | 1566.25 | 1722.975 | 215.309375 | 14 | 15.5810125 | 14 | 239,518.750 | | ft/m ² | 16,365.00 |

