



Faculty of Architecture  
Czech Technical University in Prague

## **Community center Palata**

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Diploma project  
Summer semester 2020





Czech Technical University in Prague, Faculty of Architecture

**ASSIGNMENT of the Diploma project**

Master degree *ANDELA RATKOVIC*

Date of Birth: *02.09.1993.*

Academic Year / Semester: *2019, 2020 / SUMMER SEMESTER (10)*

Department Number / Name: *15118 / USTAV NAUKY O BUDOVACH*

Diploma Project Tutor: *IRENA ŠESTAKOVÁ*

Diploma Project Theme: *RETIREMENT COMMUNITY IN PALATA*

See the Application Form for DP *COMMUNITY CENTER PALATA INI PRAGUE 5*

Assignment of the Diploma Project:

1/description of the project assignment and the expected solution objective

2/description of the final result, outputs and elaboration scales

3/list of further agreed-upon parts of the project (model)

To this list further attachments can be added according if necessary.

*The aim of the project is to design a RETIREMENT COMMUNITY WITH CO-HOUSING COMPLEX FOR SENIOR CITIZENS. THE PROJECT WILL ALSO INCLUDE A SPACE FOR A COMMUNITY CENTER FOR WIDER PUBLIC WITH PUBLIC LIBRARY, MULTY-PURPOSE HALL AND A CAFE. REQUIREMENTS FOR VISUALY AND PHYSICALLY IMPAIRED WILL BE CONSIDERED WHEN DESIGNING, AS WELL AS CONNECTION TO THE NATURAL LANDSCAPE.*

Date and Signature of the Student: *05.03.2020 A.Ratkovic*

Date and Signature of the Diploma Project Tutor: *5.3.2020*

Date and Signature of the Dean of FA CTU: *[Signature]*

## BUILDING PROGRAMME

### (A) COMMUNITY SPACE

- ENTRANCE PART
- ADMINISTRATION
- PUBLIC LIBRARY
- MULTI PURPOSE HALL
- CAFE

### (B) RETIREMENT COMMUNITY

- SENIOR CLUB
- COMMON KITCHEN
- NURSING FACILITIES
- SPORTS FACILITIES

### (C) PARKING

### (D) OUTDOOR SPACES

- ACCESSIBILITY
- CONNECTION TO THE PARK OF PALATA INSTITUTE

### (E) SENIOR CO-HOUSING

- SINGLE ROOMS
- SHARED ROOMS
- COMMON SPACES
  - LIVING ROOM
  - KITCHEN

(3)

#### a) TEXTUAL DESCRIPTION

#### b) SITE-PLAN

- WIDE CONTEXT 1:2000 (3000)
- SMALL SITE PLAN 1:500 / 1:1000

#### c) DESIGN

- FLOOR PLANS
- SECTIONS
- ELEVATIONS

#### d) VISUALISATION

- AXONOMETRY / 3D REPRESENTATION

#### e) CONSTRUCTION DRAWINGS

- CONSTRUCTION SCHEME
- CHARACTERISTIC DETAIL 1:50



## CZECH TECHNICAL UNIVERSITY IN PRAGUE FACULTY OF ARCHITECTURE

**AUTOR, DIPLOMANT:****AUTHOR OF THE DIPLOMA WORK / DIPLOMA PROJECT**

Academic Year .....2019....., .....2020..... Semester

**TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT**

(IN CZECH LANGUAGE)

**TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT**

(IN ENGLISH LANGUAGE) Community center Palata

**LANGUAGE OF THE DIPLOMA WORK / DIPLOMA PROJECT:**Diploma Work  
/ Diploma  
Project  
Supervisor

Ústav: Department

prof. Ing. arch Šestáková Irena

Diploma Work  
/ Diploma  
Project  
OpponentKey Words  
(Czech)

spojení, cluster, zachování vegetace, odchod do důchodu, společenství

Annotation  
(Czech)

Komunitní centrum Palata zahrnuje zařízení jak pro širokou veřejnost, jako je veřejná knihovna, dílny, víceúčelový sál a kavárny, tak prostory pro seniory a důchodovou komunitu. Nejdůležitější faktory, které ovlivnily morfologii budov, jsou důležité souvislosti s památkami a krajinou, jakož i ochrana přírodního dědictví v lokalitě.

Annotation  
(English)

The community centre Palata includes facilities for both the wider public such as the public library, workshops, multipurpose hall and cafes as well as spaces for senior citizens and the retirement community. The most important factors that influenced the morphology of the buildings are the important connections with the landmarks and landscape, as well as the preservation of the natural heritage on the location.

**The Author's Declaration**

I declare that I have elaborated the submitted diploma work / diploma project independently and that I have stated all the used information sources in coherence with the "Methodological Instruction for Ethical Preparation of University Final Works".

*(The complete text of the methodological instruction is available for download on <http://www.fa.cvut.cz/En>)*

In Prague on .....Signature of the Diploma Project Author

*This document is an essential and obligatory part of the diploma project / portfolio / CD.*

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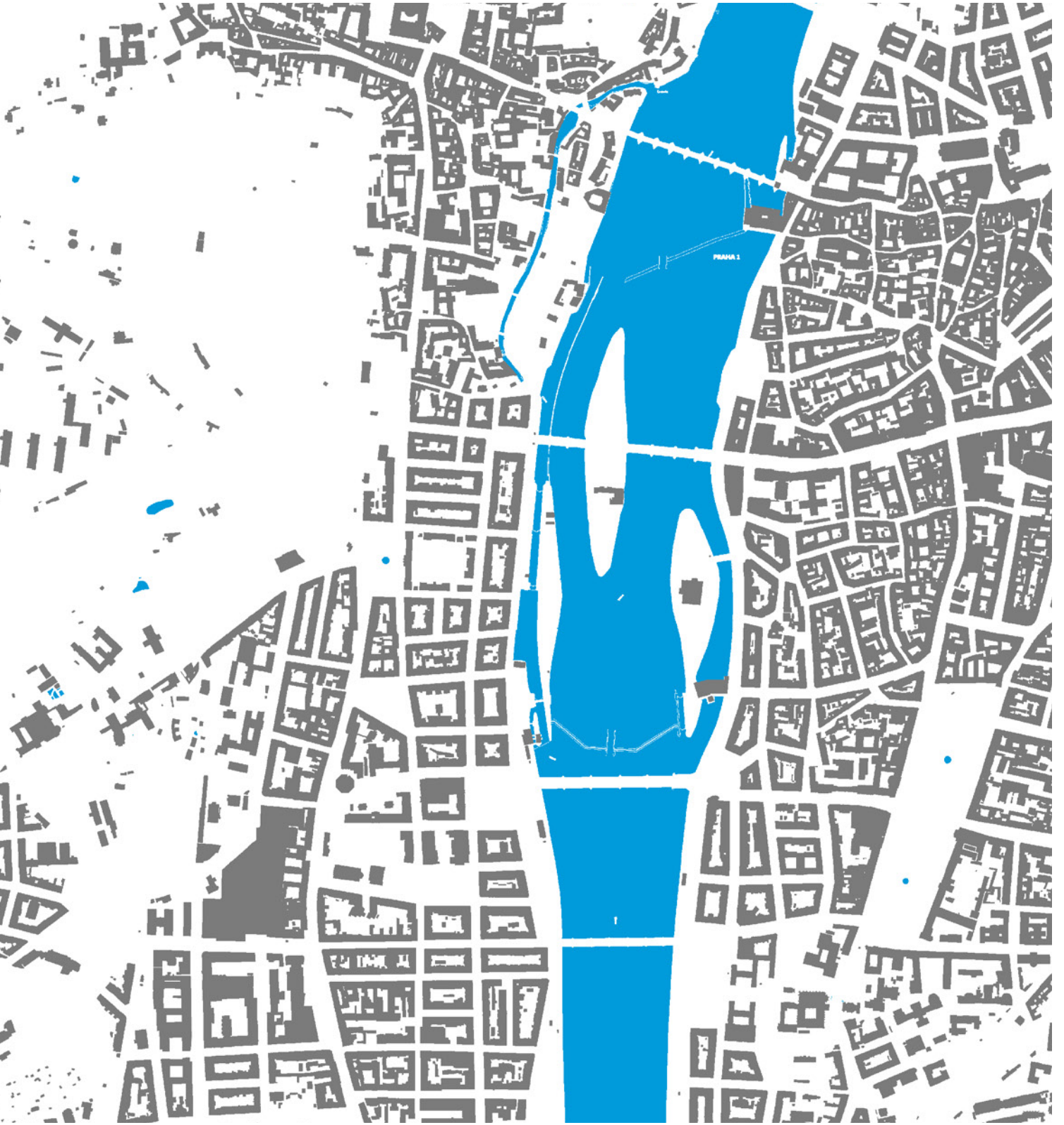
**Supervisor:** prof. Ing. arch. Šestáková Irena

**Assistant Professor:** Ing. arch., Ph.D. Dvořák Ondřej





# Wide context



# Diploma thesis assignment.



+ Anđela Ratković

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## Description of project assignment and expected solution

The aim of the project is to create a place for everyday meetings for people of all generations living on the location- space with a cafe and a small social lounge. The aim is quality architectural solution with low operating cost.

i onda jos malo vise texta samo da popunni ovaj ovde

## Building programme

### A) Entrance part of centre

- multipurpose space serving simultaneously as a foyer, info centre, reception, cafe, children's play area, exhibition space - 60 m<sup>2</sup>
- cafe background-kitchen, storages (beverages, garbage...), staff cloakroom
- 2 counseling rooms 15-20 m<sup>2</sup>
- seminar room 30 m<sup>2</sup>
- cloakroom for public
- hygienic facilities for public - toilets, changing table
- cleaning room
- storage
- possibility of outdoor (seasonal) seating

### Senior club

- large room with possibility of division into 2 smaller rooms 2 x 25 m<sup>2</sup>
- small room 25 m<sup>2</sup>
- office ca. 15 m<sup>2</sup>
- kitchenette
- storage

### Public library -library holdings 12,000 volumes

- open stacks (shelf capacity 10,000 volumes, 2,000 on loan)
- 2 service rooms (working areas for staff) independently, or within 1 circulation desk
- internet - 4 seating places positioned variously in the space
- PC with catalogue - 1 seating place
- hard and soft seats - min. 10 places positioned variously in the space
- office for librarians (ca. 20m<sup>2</sup>)
- entrance for library deliveries

### Multipurpose hall (theatre, concert, cinema, seminar, workshop, exhibition)

- multipurpose indoor space, capacity ca.60 people seated
- technical facilities (sound, heating, ventilation, lighting)
- dressing - room of performers
- storage (furniture, properties)

## Author's declaration.

I declare that I have elaborated the submitted diploma seminar and that I have stated all information sources in accordance with the methodical instructions on ethical preparation of university final theses.

author's signature / Anđela Ratković

**Background of centre**

offices

- 3 offices 15–20 m<sup>2</sup>
- storages
- archives
- hygienic facilities
- cleaning room

employees of all parts

- kitchenette
- rest room 15 m<sup>2</sup>
- locker rooms
- hygienic facilities (WC, showers)

technical background

- technical infrastructure
- workroom
- garbage
- deliveries

**B) Maternity centre and kids club**

- entrance – locker room + WC
- pram parking
- office 18 m<sup>2</sup> + storage
- background for staff 20 m<sup>2</sup> + WC
- hygienic facilities (WC, 1 shower)
- cleaning room, laundry store
- outdoor playground
- outdoor toy store

**group babysitting** (1 – 4 years)

- room 45 m<sup>2</sup> + playroom 18-24 m<sup>2</sup>
- bathroom - 2 WC a 2-3 sinks, changing table
- kitchenette + storage ca 20 m<sup>2</sup>

**playroom for parents with children**

- playroom 45 m<sup>2</sup>
- kitchenette
- storage
- WC adults, WC children, changing table

**workshops for children** (within 1 year, 1-2, 2-4, 4-6)

- 3 - 4 room 18 -24 m<sup>2</sup>
- storage

**C) Cohousing for seniors**

housing

2 group apartment for 14-15 persons (6-7 single, 3 pairs)

- single - room + hygienic facilities, kitchenette
- pair – living room, bedroom + hygienic facilities, kitchenette
- common living room with kitchen and place for assistant
- pantry
- room for housework
- storage
- barrier-free WC
- cleaning room

nursing services

- 2 offices 15–20 m<sup>2</sup>
- archives
- background for personal assistants
- rental of compensatory aids
- storages (medical supplies equipment)
- hygienic facilities, cleaning room

**Parking**

- 2 místa pro vlastní vozidla centra
- other parking according to the capacity of housing and individual parts

**Outdoor spaces**

- revitalization of greenery, connection to the park of Palata Institute
- public accessibility

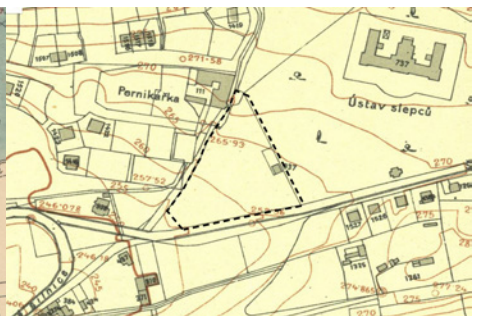
# Historical analysis.



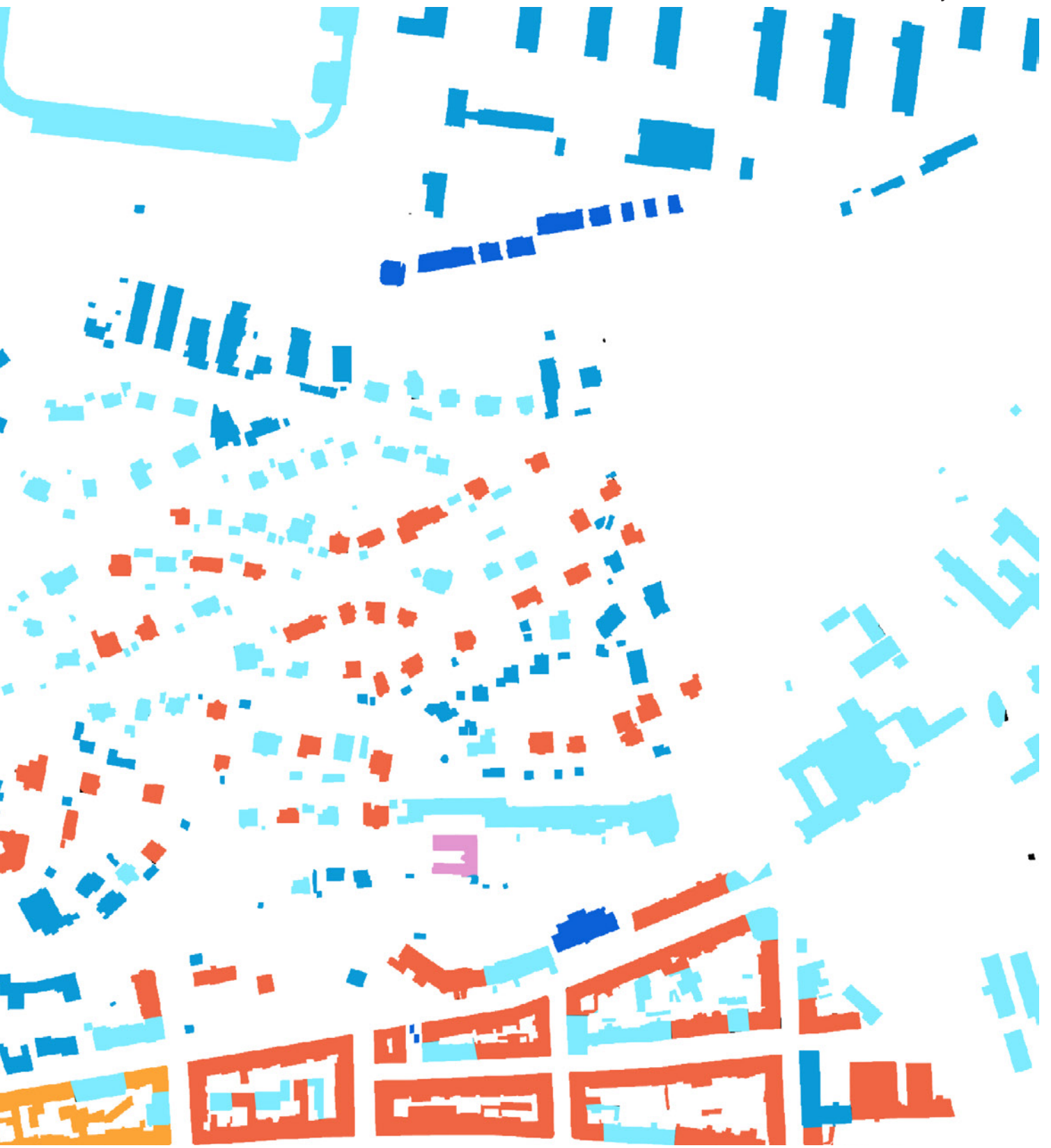
1842



1909-1914



1920-1924

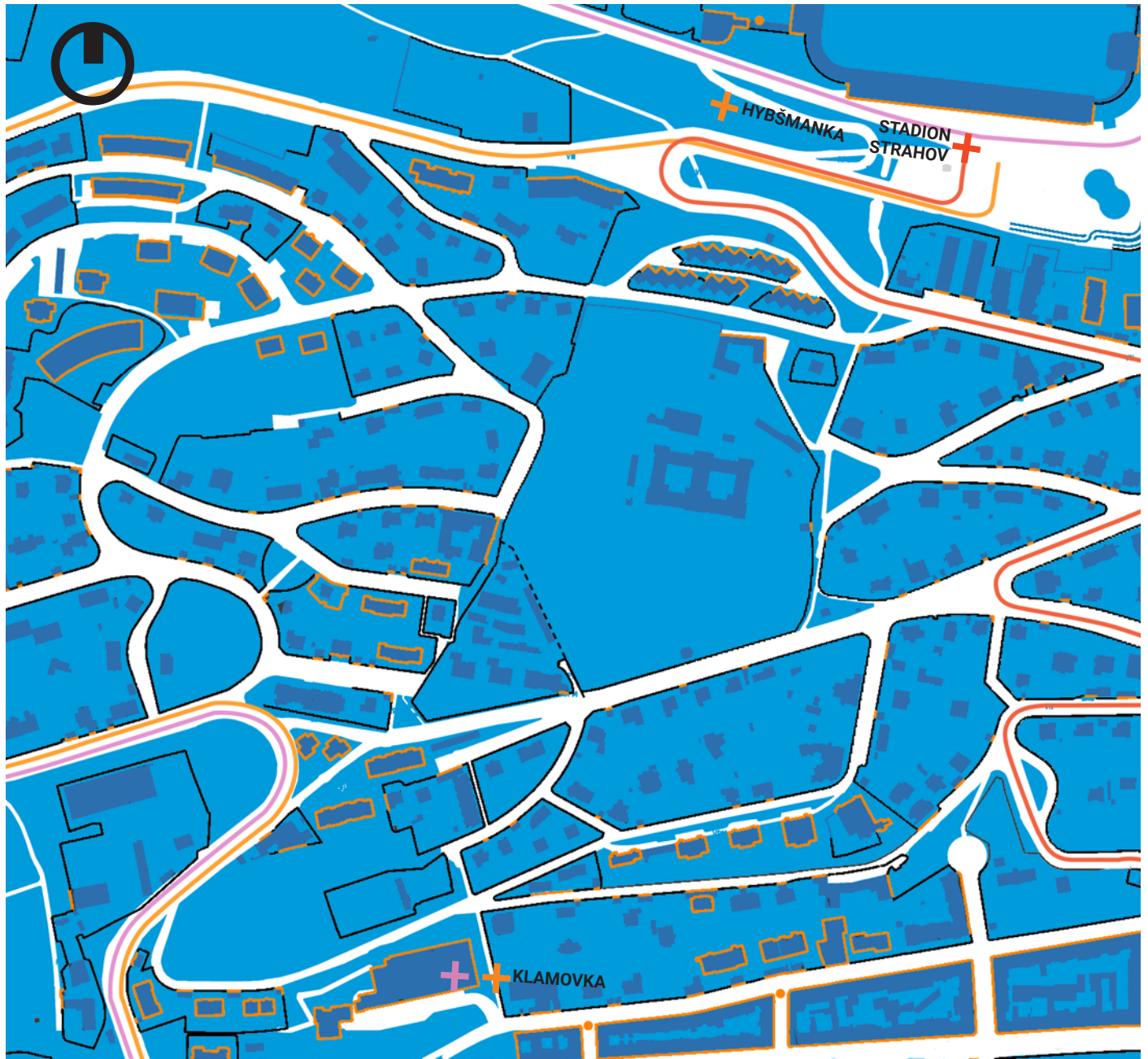


1945

1988-1989

2019

# Street pattern / boundaries



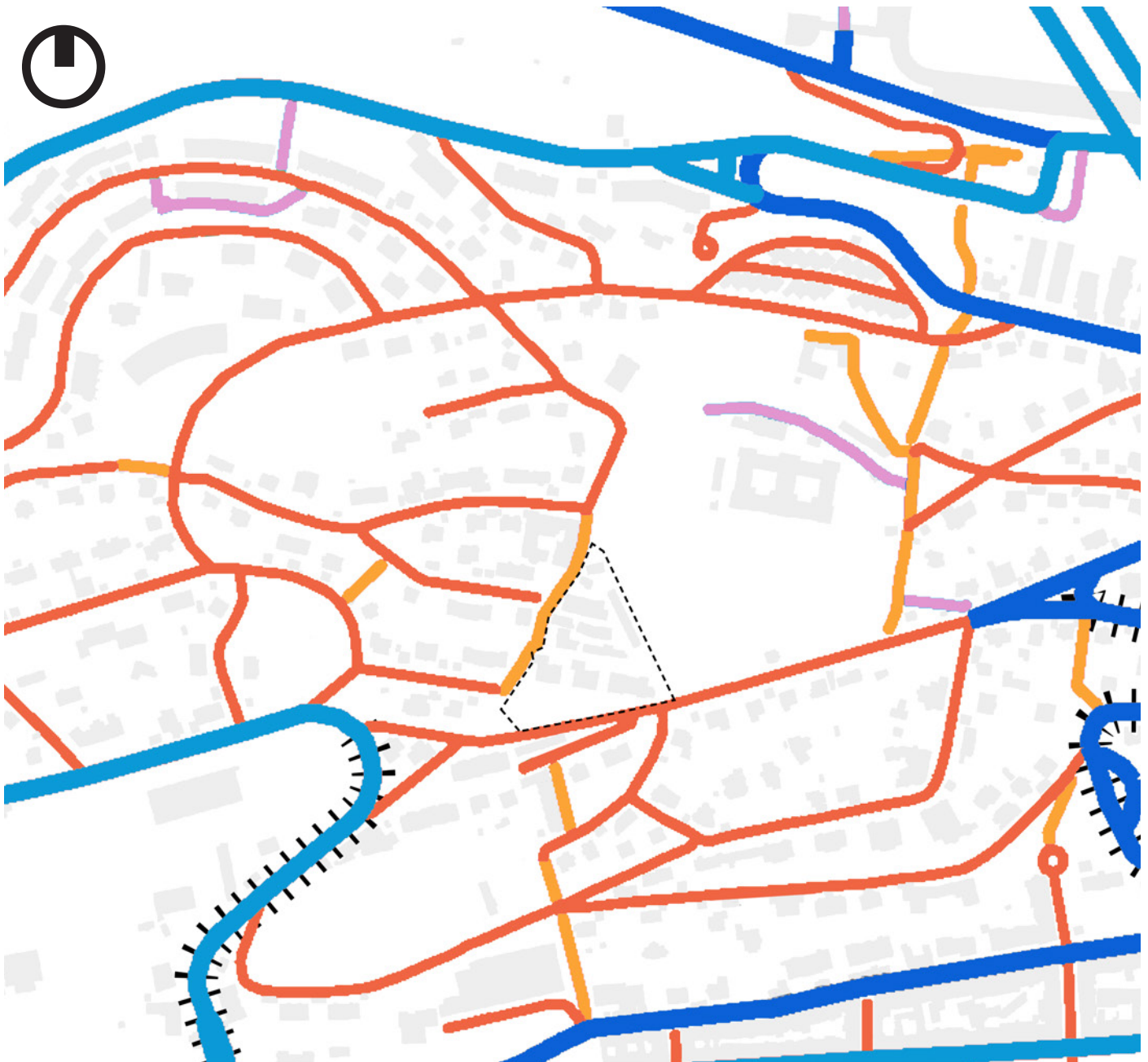
- Lot boundaries
- Schwartzplan
- Bus no. 176
- Bus no. 191
- Bus no. 143
- Bus stations
- fence barriers
- edge formed by the facade of the house

The street pattern is curved linear, following the natural shape and slope of the terrain (from north to south), The boundaries between public- the street and private are mostly defined by the fence that separates the private yard from the street. In the southern part of the settlement, where the residential buildings are located, the facade is a direct border of private and public space.

Buses are the only means of public transport that connects the settlement with different centers of the city. The nearest bus station to the parcel is Klamovka which is 510m away.

# Street hierarchy.

2021



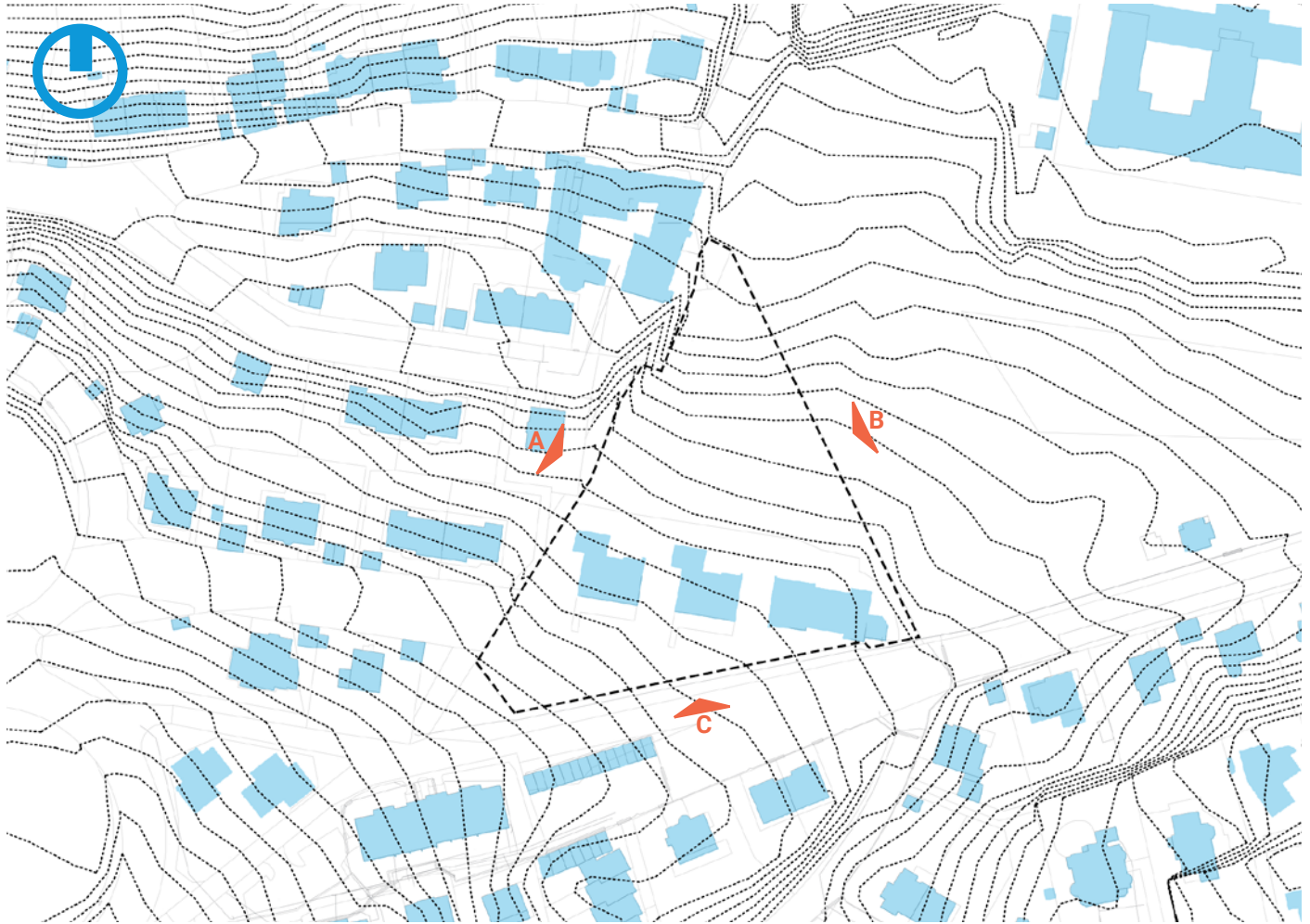
- Local com.-1st class
- Local com.-2nd class
- Local com.-3rd class
- Local com.-4thst class
- Utilitarian communic.
- sections with long-term formation of columns

The arterial streets (1st and 2nd class communication) which connects different parts and centers of Prague are located on the periphery of the settlement. On the south side of the location the arterial streets create a congestion with long-term formation of columns.

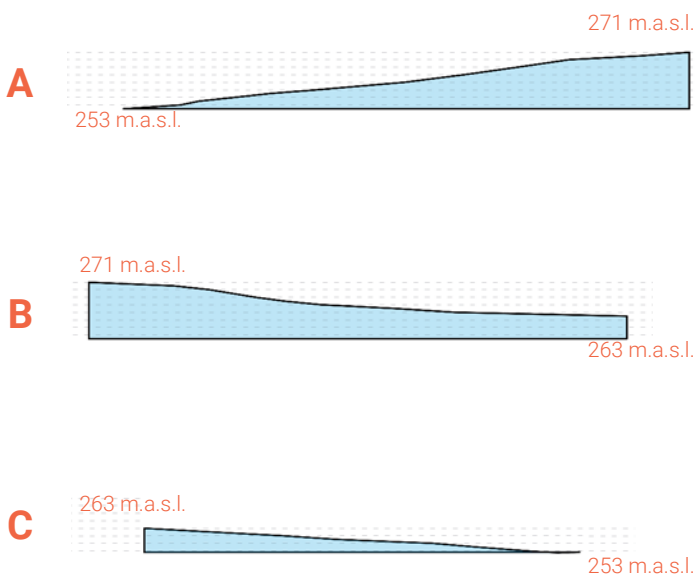
The 3rd and 4th class communications are present for the connection, operation and maintenance of the interior of the settlement.

15

# Topography.



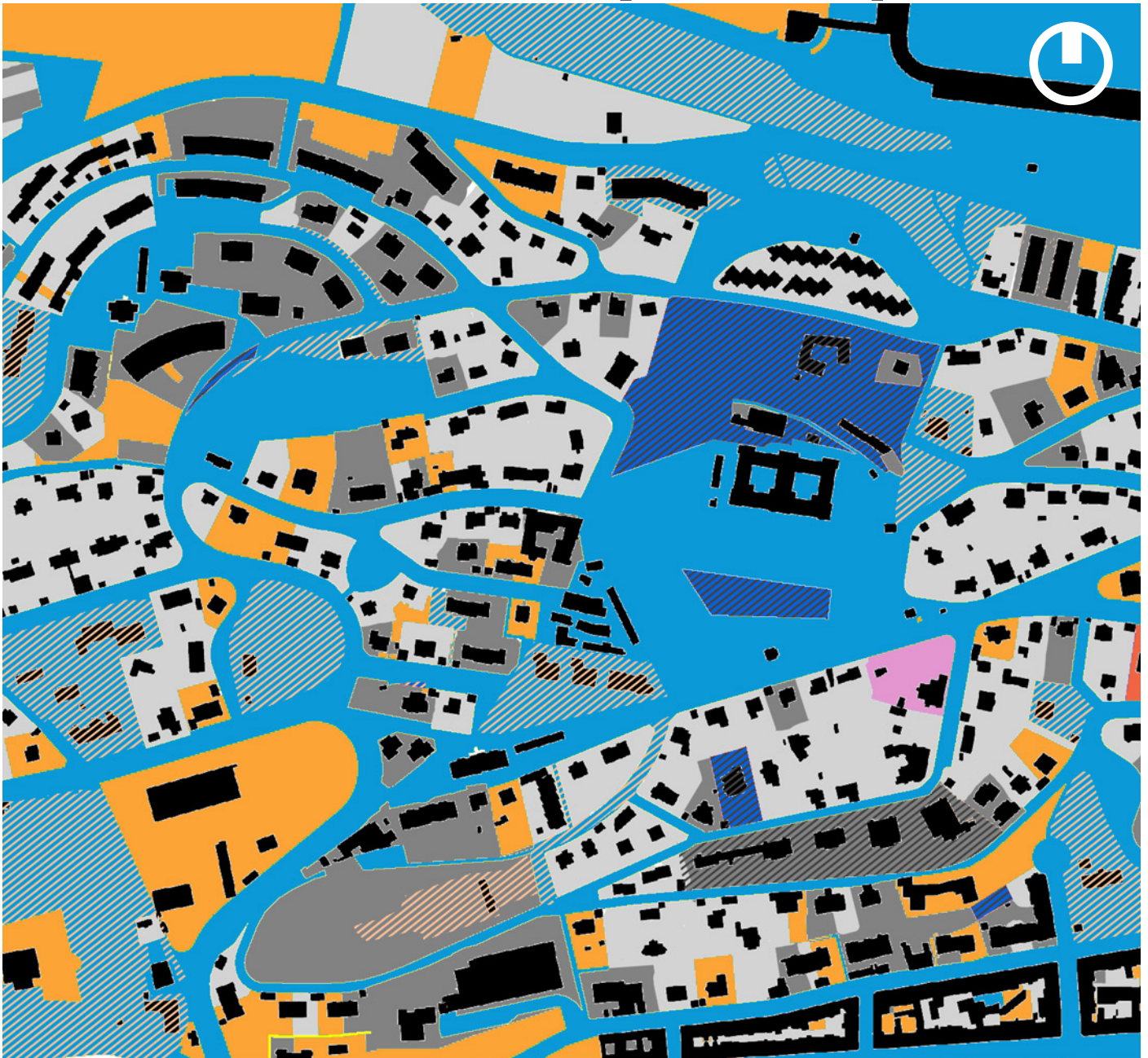
16



The topography of the observed area has a sloped terrain in the south-west direction. The height difference between the highest and the lowest point of land is 17,5 meters.



# Map of ownership \*public-private.



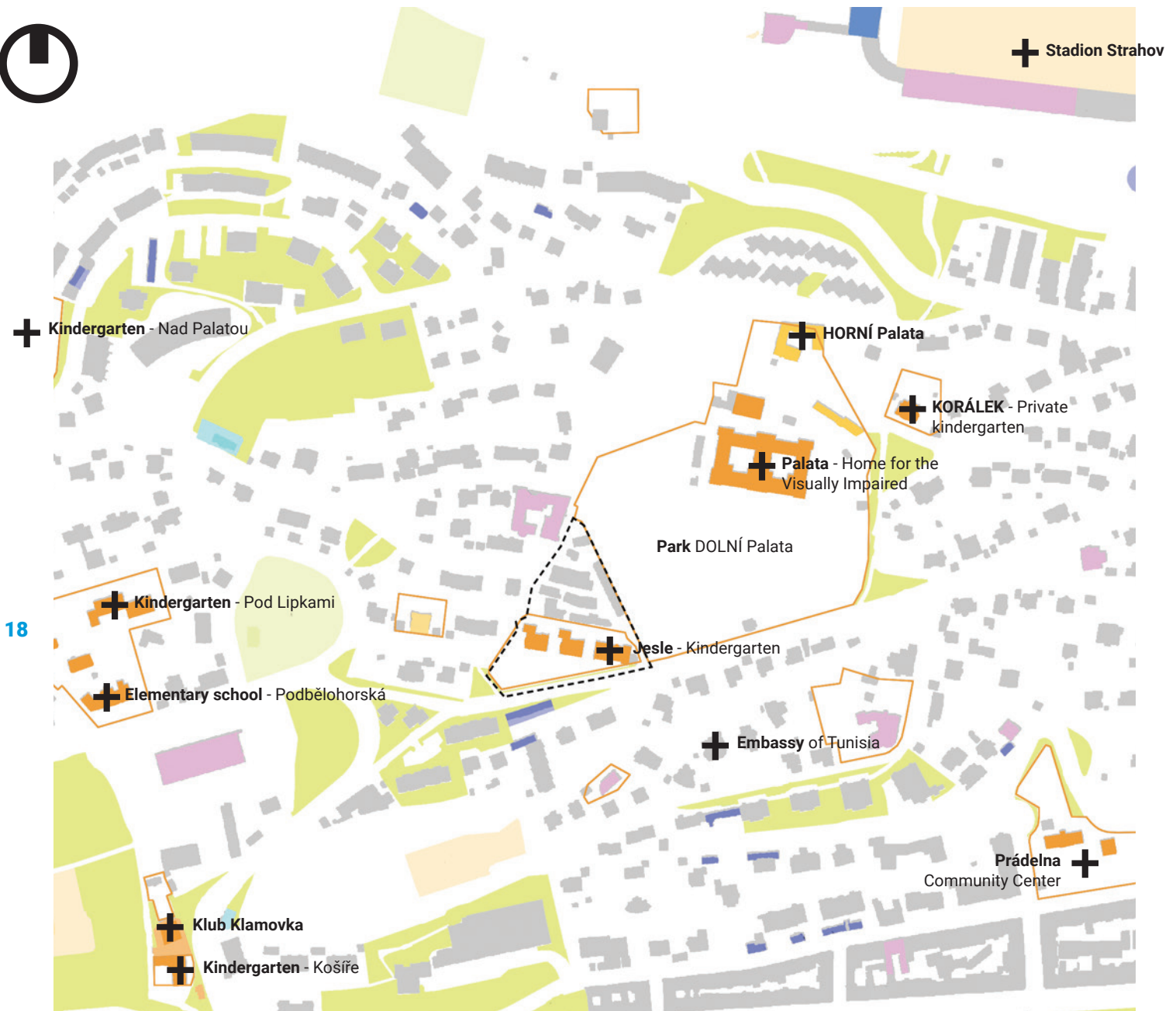
## LAND OWNERSHIP

- The Czech Republic, including state-controlled entities
- City of Prague, including entities controlled by it, without the City District
- Remaining domestic legal entities
- Identified and classified foreign entities
- Subjects not included in other groups
- Domestic natural persons
- Sharing of two or more entities of different groups

## LAND MANAGEMENT

- City of Prague, including entities controlled by it, without the City District
- The Czech Republic including state-controlled entities

# Map of Facilities .



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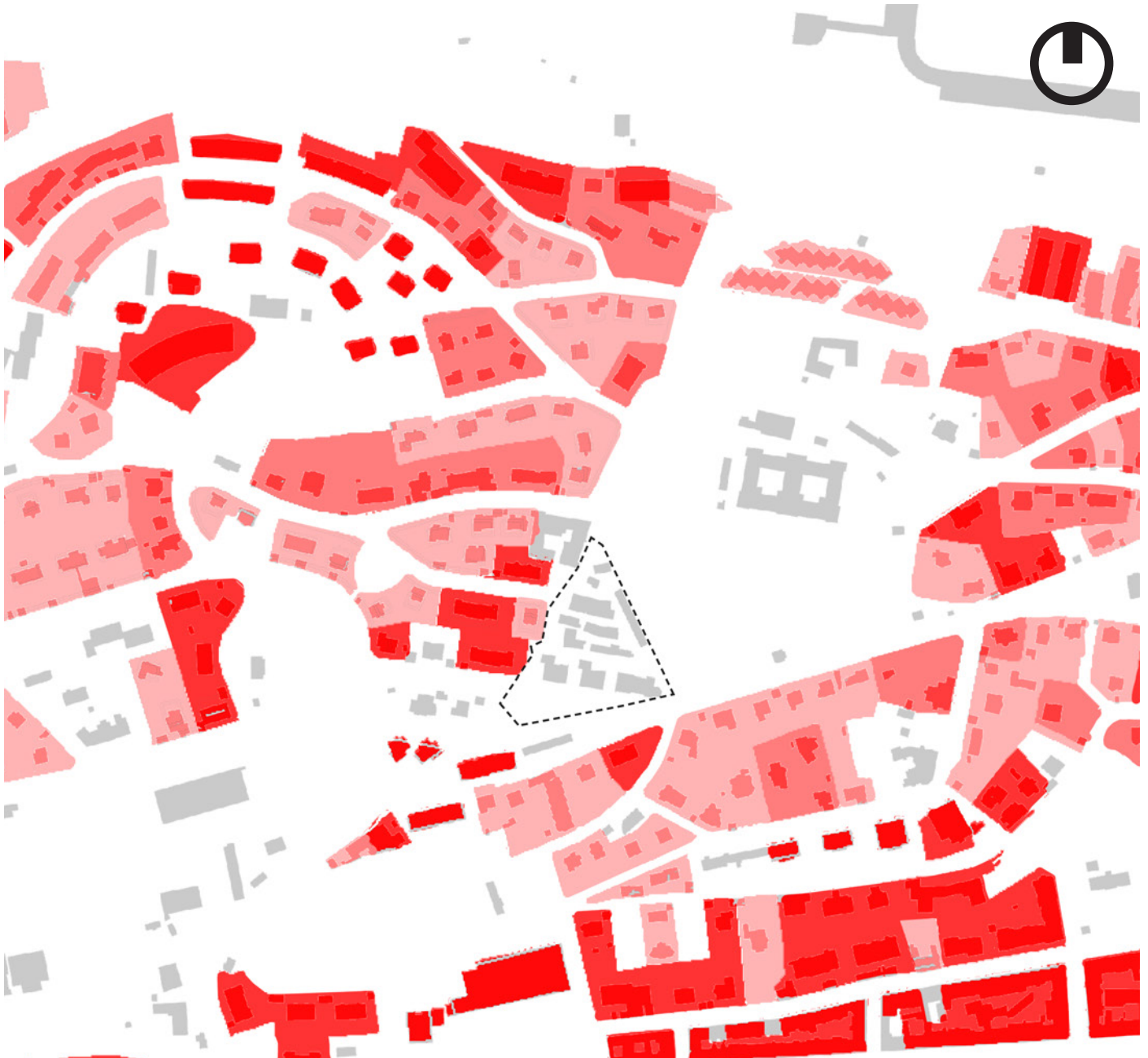
- Sport and recreation
- Public services
- Commercial services
- Transport infrastructure
- Technical infrastructure
- + Facilities

All the facilities are dispersed on the location with no visible centre or a square. Most dominant facilities are for educational purposes (kindergartens and schools) and sports and recreational areas, while the least dominant are commercial services.

In the immediate vicinity of the location, there is the Home for the visually impaired and the Horni Palata Sanatorium which is one of the oldest psychotherapeutic centres in the Czech Republic.

# Map of Housing.

2021



19

- Family houses
- Villas
- Residential buildings

**The observed location is located in the settlement where housing is the most dominant land use.**

**Population:** around 2200 people

Freestanding family houses and villas are the most common typology in the immediate vicinity of the site. On the southern part of the area, between Holečkova, Plzenska and Vrchlickeho street blocks of residential buildings are present and some of them date from the end of 19th century. Residential building on the north-west part of the area, built in the 80s, are either free-standing buildings or stacked in a row as a small group.

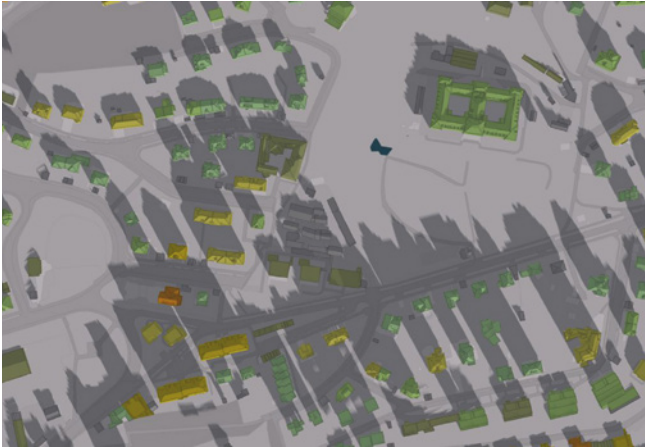
# Map of heights.



- < 6 m
- 6,1 - 9 m
- 9,1 - 12 m
- 12,1 - 16 m
- 16,1 - 21 m
- 21,1 - 26 m
- 26,1 - 40 m

Single-family housing usually has up to 3 floors (+ attic floor), and the overall height reaches from 6 to 12 meters. On the southeast part of the location where the first residential buildings are located, the number of floors grows up to 5, and the height reaches 21m meters. The residential buildings on the north-west have 5 floors with a height of 12meters (the height of the average floor lowered by one third in the 80s), and some buildings reach even 8 floors with a height of 25m.

# Sun/shadow analysis



winter  
**9:00h**



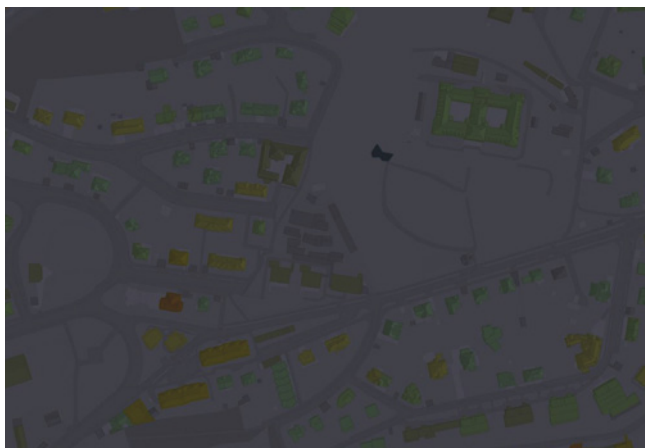
summer  
**9:00h**



winter  
**13:00h**



summer  
**13:00h**

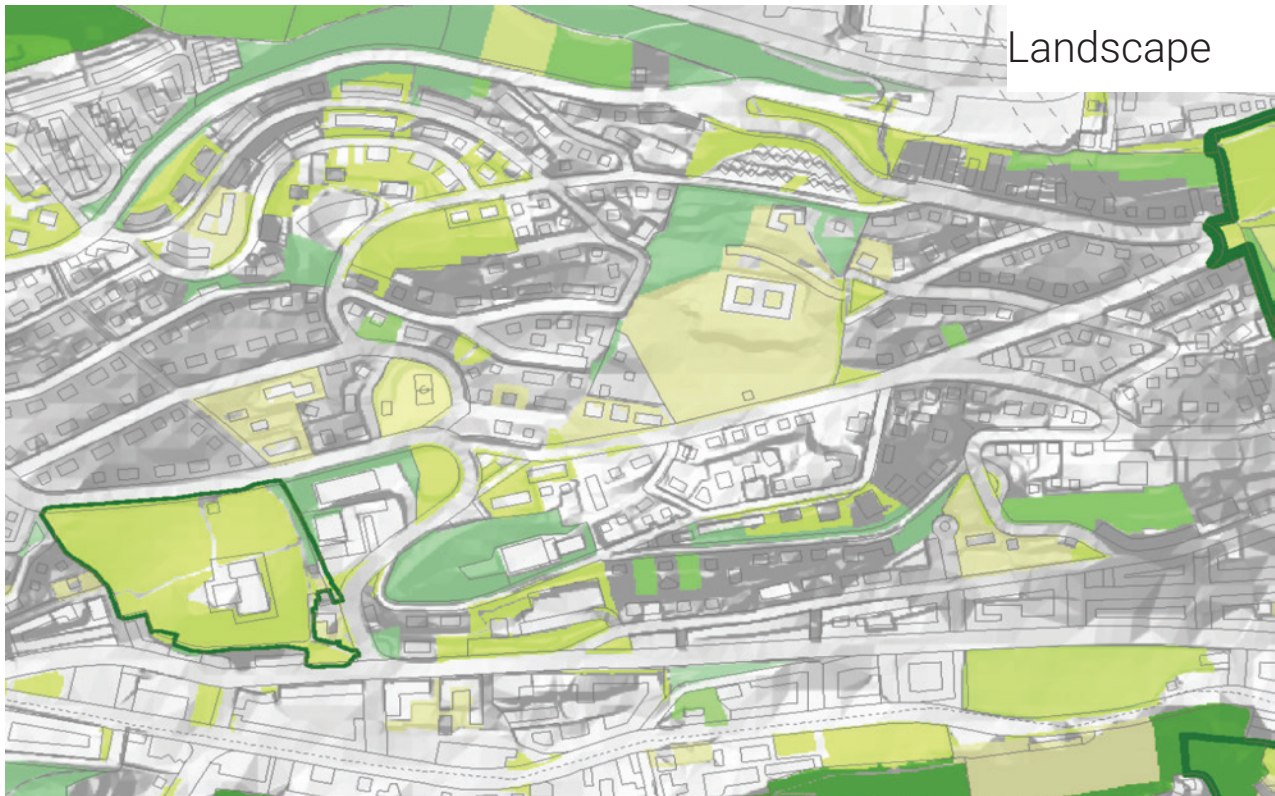


winter  
**19:00h**

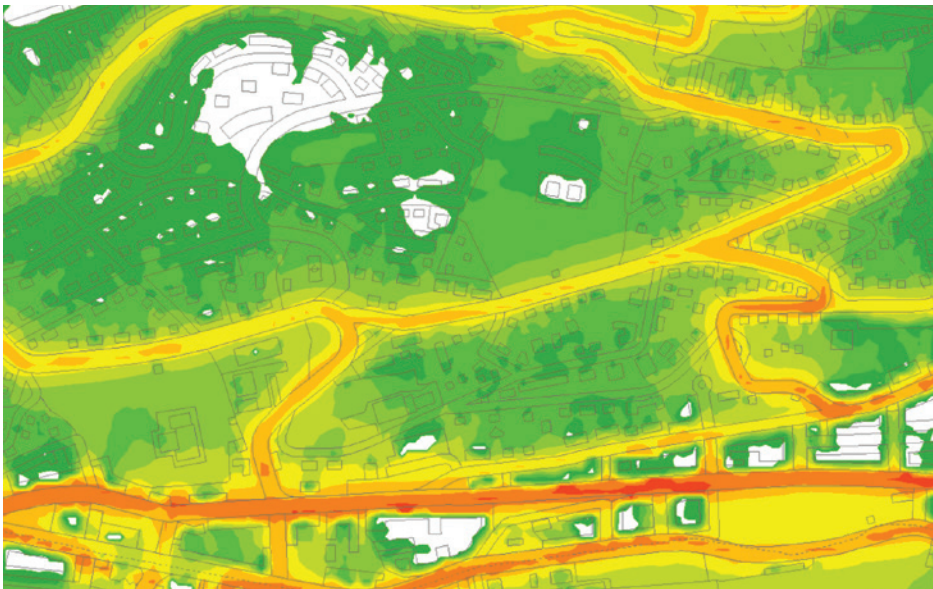


summer  
**19:00h**

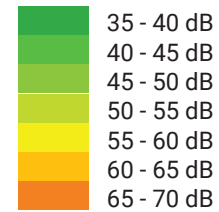
# Ecological factors.



Air quality is especially good in the area of the chosen plot. The air pollution gets higher on the southern part of the location where more dense urban tissue is situated.



## Noise pollution

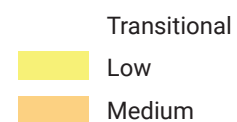


The plot is located in a very quiet area of the city, which makes it ideal for a facility such as nursing homes, kindergartens, libraries, and so on. However, the presence of the street could be a big source of noise pollution, especially during the day when the intensity of the street noises increases. This could potentially affect the design and orientation of the building. Sound insulation can also be solved with the help of certain constructions and materials.

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## Presence of Radon



The presence of Radon on the chosen plot is very low, therefore the risk of radon penetrating from the soil into the object is low as well. Special measures against radon are not needed, but it could be included in the design for a complete protection of the object.

# Map of community centers in Czech Republic



The concept of a community center has been present in architecture typology in the past few centuries (first evening schools in the 19th and 20th century), however it has gained back its popularity in the past few decades. The community center of today aims to be inclusive of all social groups and patterns, and aims to strengthen and encourage the sense of the neighbourhood and social relationships.

In the Czech Republic, there seem to be only a few examples of community centers in recent architectural practice; we can see that all of the projects mentioned have been realized after the 2000's and as such, this concept is still being explored.

The community centers are usually funded by the local or municipal authorities, as well as European funds and are rarely privately sponsored as they don't represent a large source of profit, which may also be indicative of why they aren't present in the architectural practice more often.





Líbeznice,  
**Komunitní centrum Dřevak**

projekt: 2015  
realization: 2016  
author: Atelier M1  
architekti

address: Na Chrupavce 973,  
250 65 Líbeznice  
investor: Statutory city of  
Ostrava - city district Poruba



České Budějovice,  
**Komunitní centrum Máj**

projekt: 2012  
realization: 2013-14  
author: SLLA architects

address: Antonína Barcala 404,  
370 05 České Budějovice  
investor: Statutární město  
České Budějovice



Praha, Černý most  
**Komunitní centrum Plechářna**

projekt: 2013-14  
realization: 2014-15  
author: EDIT architects  
adresa:

address: Bryksova 1002/20,  
198 00 Praha 14-Černý Most  
investor: Městská část Praha  
14 & partners



Ostrava,  
**Komunitní centrum Všichni spolu**

projekt: 2016  
realization: 2017-19  
author: PROJECTSTUDIO  
EUCZ

address: Karla Pokorného  
447/52a, 708 00 Ostra-  
va-Poruba  
investor: Statutory city of  
Ostrava - city district Poruba



Praha,  
**Komunitní centrum sv. Prokopa**

projekt: 1999-2000  
realization: 2000-2001  
author: Jiran Kohout  
architekti

address: V Hůrkách 1292,  
158 00 Praha 13-Stodůlky  
investor: Římskokatolická  
farnost Stodůlky



Liberec,  
**Mateřská škola Nová Ruda**

projekt: 2015-18  
realization: 2017-18  
author: Petr Stolín, Alena  
Mičeková

adresa: Donská 1835,  
Vratislavice nad Nisou, Li-  
berec, Česká republika inves-  
tor: Městský obvod Liberec  
- Vratislavice nad Nisou

# Komunitni centrum Dřevák

Líbeznice is a small village in the Central Bohemian region of the Czech Republic and according to a 2013 survey it has a population of 2000 inhabitants. The community center contains a gymnasium, football hall, club house, café, ping-pong club, music and dance hall, congress room, cinema and a lecture hall and provides activities that currently satisfy the social, recreational and cultural needs of the population.



01 / aerial view



02 / facade / night view



03 / sports hall



04 / multipurpose hall



05 / changing rooms

# Komunitni centrum Máj

2021



01 / aerial view

The new community center building is supposed to encourage and regenerate a part of the settlement in České Budějovice, which has been in need of activities that will promote inclusion of different groups of citizens. It aims to provide social care services for children and youth, a maternity care center, primary prevention centre, senior club, social housing as well as municipal police station; it also contains a recreational playground on the rooftop.



02 / frontal facade



03 / rooftop basketball field

27



04 / common room and corridor



05 / facade and staircase detail view

diploma seminar

# Komunitni centrum sv. Prokopa

The community center is divided in two halls: the oval body and the vertical tower host a chapel while the rectangular, more regular form hosts a community hall and complementary multipurpose spaces necessary for the activities of the users. Even though we could say the object is of a smaller scale, it has many details and manages to provide different ambients for different kinds of activities, which may be inspirational for further research.



01 / aerial view

28



02 / facade / night view



03 / facade / common hall and entrance view



04 / facade / night view



05 / facade / detail / window

# Komunitni centrum Plechárna

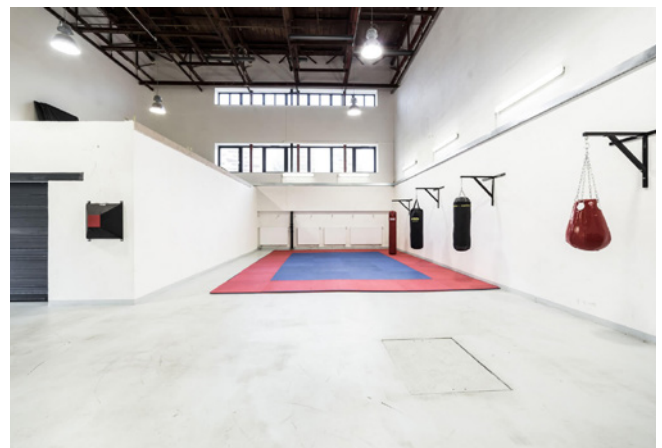


01 / aerial view

Plechárna, a former industrial building, has been transformed into a community center, with focus on minimum interventions necessary for the new functions - there is an open ground floor with a café, shop, rental services and a public toilet, as well as the adaption of a large hall so it can be used for sport, educational and cultural activities. The goal of the project was to create an inclusive spaces that welcomes all age agroups - mothers with children, athletes, dog owners ; It also contains a garden, skate park and other outdoors.



02 / facade / front view



03 / sports hall



04 / skate hall



05 / café &amp; club

# Komunitni centrum Všichni spolu

This example shows how a community center can focus and incorporate the exterior; it is outward oriented and the highlight is put on various outdoor recreational activities, which is especially important nowadays. It has „minimal” interior space (small longitudinal object that melts with the surroundings and the terrain) which seems to be enough for the necessary functions, mostly a multipurpose hall for various activities being held here.



01 / aerial view



02 / playground



03 / outdoor furniture



04 / outdoor furniture 2



05 / green roof

# Mateřská škola Nová Ruda

2021



01 / aerial view

While this isn't a community center, Nova Ruda may be a good example due to similar topography of the location (sloped terrain). Another important aspect is how the facade communicates with the surroundings, and especially the effect it has during the winter time. The form and 3 separate units of the building and complicated relationship between the interior and the exterior make this a very interesting example that might benefit our further research.



02 / facade



03 / street facade / winter

31

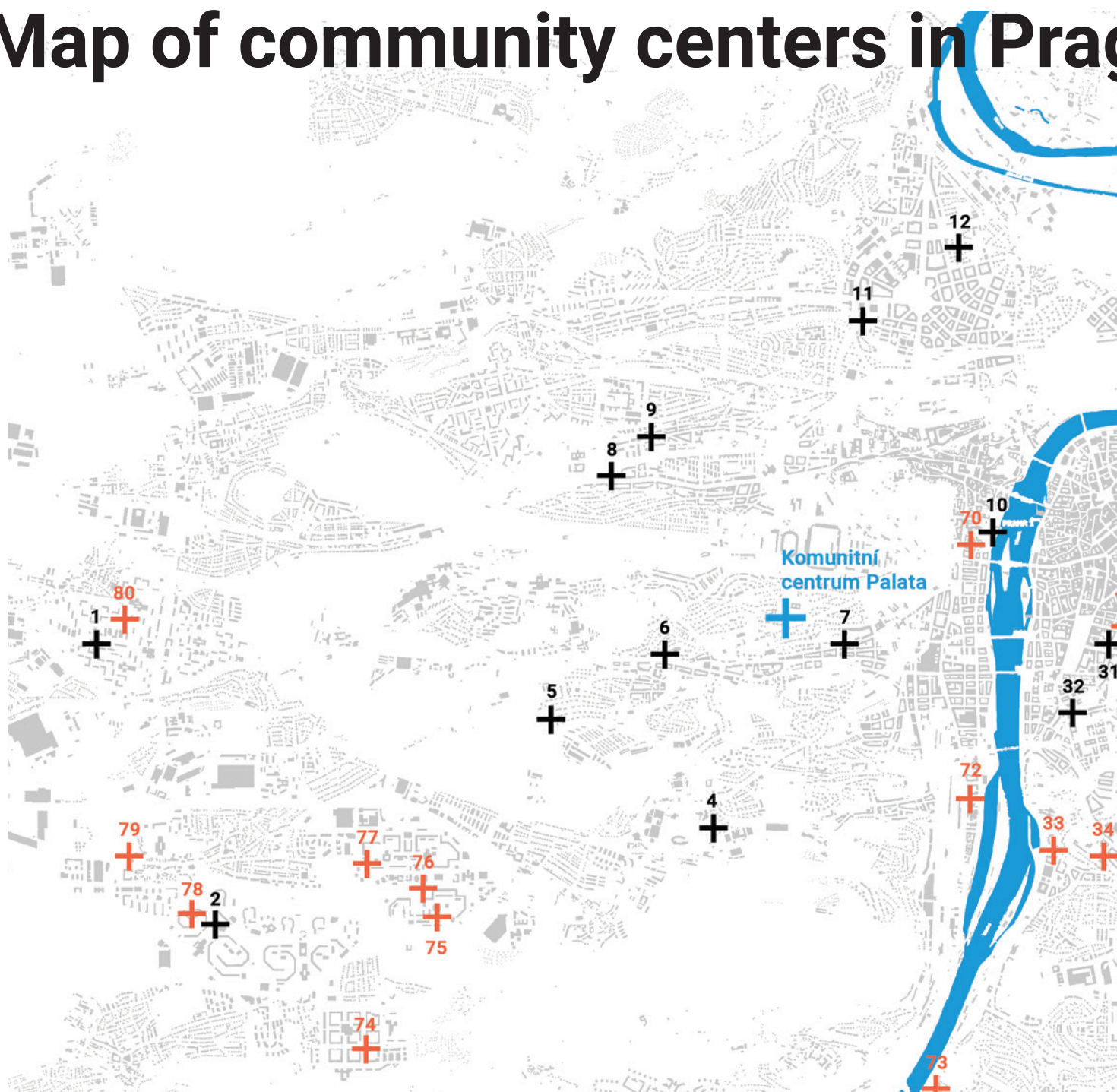


04 / atrium



05 / interior / storage / corridor / lounge

# Map of community centers in Prague



## Individual research [Social media, Google Maps, Non-profit organization lists..]

- 1 - Kulturní centrum Průhon
- 2 - Komunitní centrum Luka
- 3 - Kulturní a rodinné centrum Barrandov
- 4 - Komunitní centrum Konzerva
- 5 - Spolek Hájovna
- 6 - Komunitní centrum Bud'ánka
- 7 - Komunitní centrum Prádelna
- 8 - Kulturní centrum Kaštan
- 9 - Komunitní centrum Neseďím, susedím
- 10 - Komunitní centrum Kampa
- 11 - Kulturní centrum Klubovna
- 12 - Komunitní centrum Občanská inspirace
- 13 - Centrum Locika
- 14 - Rodinné centrum Letná
- 15 - Volnočasové centrum Holešovice

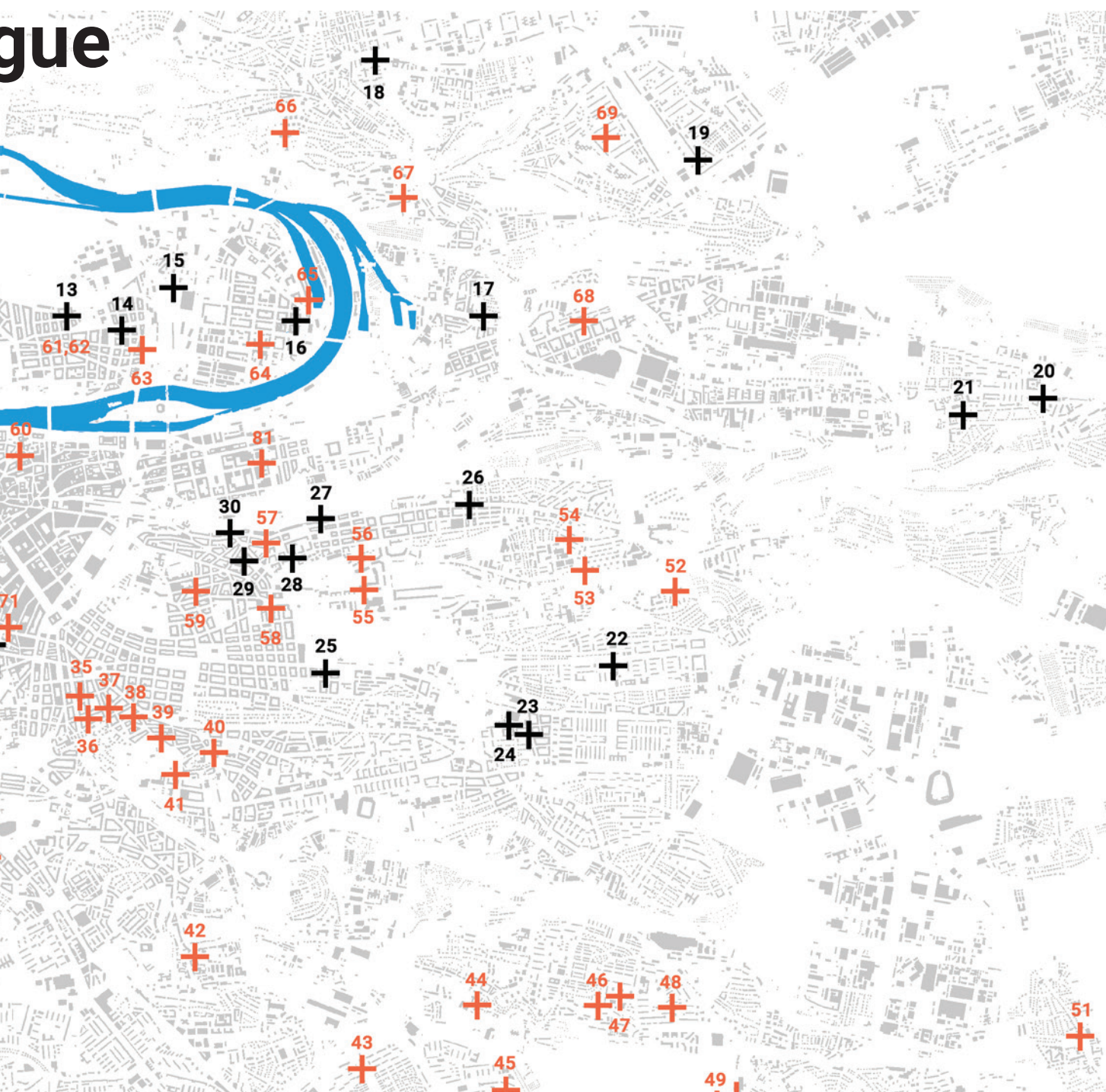
- 16 - Sdílená dílna PONK
- 17 - Komunitní centrum a zahrada Kotlaska
- 18 - Spolek Rosa
- 19 - Kulturní a rodinné centrum Knoflík
- 20 - Volnočasové centrum H55
- 21 - Komunitní centrum Kardašovská
- 22 - Rodinné a komunitní centrum Jablíčkov
- 23 - Komunitní centrum Pravé Těď'
- 24 - Komunitní centrum Petrklíč
- 25 - Rodinné a komunitní centrum Paleček
- 26 - Kulturní centrum Vozovna
- 27 - Komunitní centrum Žižkov
- 28 - Rodinné a komunitní centrum Nová Trojka
- 29 - Komunitní centrum Pomocná ruka
- 30 - Komunitní centrum Husitská

- 31 - Komunitní centrum Adventor-KOPEČ
- 32 - Rodinné a komunitní centrum Jahoda

## List of social services on the territory of Prague as evidenced on

- 33 - Ústav sociálních služeb Podolská
- 34 - ÚSS 4 - Dům s pečovatelskou službou Marie Cibulkové
- 35 - DPS Bruselská
- 36 - Dům s pečovatelskou službou Záhřebská
- 37 - CSS - Domov pro seniory Jana Masaryka
- 38 - CSS - Domov pro seniory Máchova
- 39 - Dům Naděje Praha Vršovice – Azylový dům
- 40 - Domov Vršovický zámeček
- 41 - Centrum sociální a ošetrovatelské pomoci





- |   |   |   |
|---|---|---|
| <b>42</b> - Domov Sue Ryder   | <b>55</b> - Základní organizace Svazu důchodců ČR     | Bulovka   |
| <b>43</b> - Dům seniorů Michle - odlehčovací služby                         | <b>56</b> - Integrovaní centrum Zahrada               | <b>68</b> - Mateřské centrum Knoflík - Školička Vysočany    |
| <b>44</b> - Dům Naděje Praha Záběhllice - Azylový dům                       | <b>57</b> - Dům s pečovatelskou službou Roháčova      | <b>69</b> - Dětské centrum Paprsek                          |
| <b>45</b> - Hospic Malovická  | <b>58</b> - Klub Remedium                             | <b>70</b> - Studio Oáza                                     |
| <b>46</b> - Domov pro seniory Zahradní Město                                | <b>59</b> - Dům s pečovatelskou službou Krásava       | <b>71</b> - BONA - chráněná textilní dílna                  |
| <b>47</b> - Domov pro seniory a Domov se zvláštním režimem                  | <b>60</b> - Klub seniorů Haštalka                     | <b>72</b> - Komunitní centrum Louka                         |
| <b>48</b> - Centrum sociálních služeb Praha, Azylový dům pro matky s dětmi, | <b>61</b> - Dům s pečovatelskou službou U studánky    | <b>73</b> - ÚSS 4 - Dům s pečovatelskou službou Branická 43 |
| <b>49</b> - Sdružení SRAZ   | <b>62</b> - Dům s pečovatelskou službou Kamenická     | <b>74</b> - Farní charita Stodůlky - charitní šatník        |
| <b>50</b> - Toulcův dvůr - přednáškové sály a kluby                         | <b>63</b> - Pečovatelské centrum - ředitelství        | <b>75</b> - Sananim   |
| <b>51</b> - DPS, masáže - Dolní Měcholupy                                   | <b>64</b> - Dům pro seniory Tusarova                  | <b>76</b> - Komunitní centrum Svateho Prokopa               |
| <b>52</b> - Domov pro seniory Malešice                                      | <b>65</b> - Přístav 7 - komunitní centrum pro seniory | <b>77</b> - Prosaz, z. ú.                                   |
| <b>53</b> - Ošetřovatelský dům Habrová                                      | <b>66</b> - Dům sociálních služeb DSS II.             | <b>78</b> - Středisko sociálních služeb Praha 13            |
| <b>54</b> - Ošetřovatelský dům Pod lipam                                    | <b>67</b> - Dům s pečovatelskou službou -             | <b>79</b> - Diakonie ČCE - Denní stacionář Stodůlky         |
|   |   | <b>80</b> - Centrum sociálně zdravotních služeb             |
|   |   | <b>81</b> - Dům s pečovatelskou službou - Křížkova          |

# Common rooms.

Each community center has one common multipurpose room that fulfills various daily activities depending on the target group. For children the most important is a clear play and babysitting area with enough storage and furniture that can be easily removed if necessary. When they are not in use for children activities, they can be used as classrooms, conference rooms, or galleries. The size of the room depends on the community center but, from examples researched, usually varies from 20 - 40m<sup>2</sup>.



01 / Komunitní centrum Paleček



02 / Rodinné a komunitní centrum Jablíčkov



03 / Kulturní a rodinné centrum Knoflík



04 / Komunitní centrum Kampa



05 / Komunitní centrum Paleček

# Kitchen/ kitchenette.



01 / aerial view

Kitchens or kitchenettes in community centers can either be mutually used by employees and users, or be separated. In case they are separated, the kitchenette is usually joined together with the employees office/lounge area and has minimal dimensions.

In cases of daycare community centers and senior clubs/housing as well as safe spaces, the kitchen may be larger in order to accommodate daily needs of its tenants.



02 / Spolek Rosa



03 / kitchenette and employee lounge area



04 / senior community center



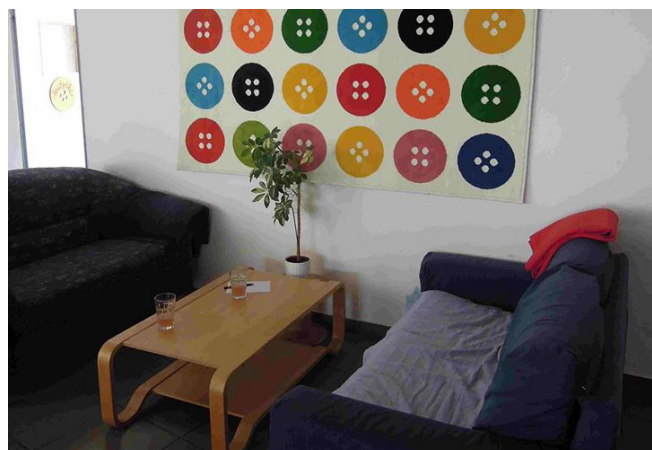
05 / senior care

# Waiting rooms.

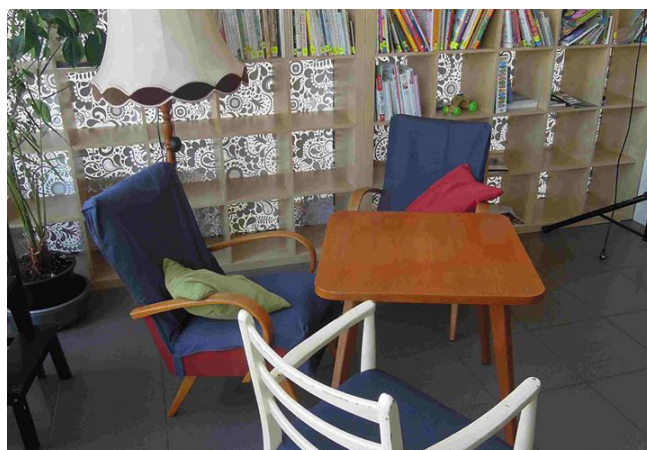
Waiting rooms are typical for larger community centers that cover a large number of population on the local authority level. They are also more common for rehabilitation/therapy activities and children care; they are usually in an expanded part of the corridor. In smaller scale community centers, the cafe or the kitchen space is used as a waiting room as well.



01 / aerial view



02 / playground



03 / outdoor furniture



04 / outdoor furniture 2



05 / Rodinné a komunitní centrum Jahoda

# Pavement.

2021



01 / aerial view

Although not as common, in certain cases we can see that community centers take care of the exterior space as well, usually by reconstructing the pavement (colorful patterns, repairing potential dangerous holes, etc., softer materialization). They may also repair fences and change the urban mobilier to be more fitting for the dominant user category (child/mom-friendly, more accesible, phone chargers, etc..)



KLUBOVNA / GALERIE

02 / Komunitní centrum Prádelna

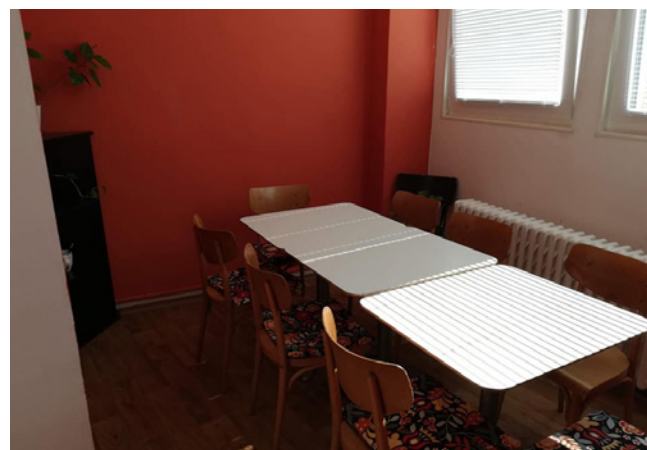


03 / Komunitní centrum Prádelna

37



04 / atrium



05 / interior / storage / corridor / lounge

diploma seminar

# Dance halls.

A few of community centers offer a dance hall (taneční sal) that is usually rented and as such represents a source of income for the needs of the center. Also, it is common for community center to co-operate between each other and use their spaces. Sometimes the centers will rent a smaller theatre in the city as well according to their needs. As we can see on the picture 02, one common room may be used for different activities such as: dancing, ping-pong, yoga, etc. They range significantly in size and may be from 30-120m<sup>2</sup>.



01 / Komunitní centrum Matky Terezy



02 / Komunitní centrum Pradelna



03 / Theatre/music hall KC Pradelna



04 / KC Vozovna



05 / KC Občanska inspirace

# Classrooms.

2021



01 / Komunitní centrum Petrklíč

Many community centers offer free or affordable language, technology and art courses to their users which is why they need to have classrooms that can vary in size - for groups of up to 8 people, 8-15 people, or a 15+ classroom that sometimes serves as a conference/screening room when available. They usually include only the most basic equipment and it is also common for the room to be transformer from a classroom to a common room/babysitting area/conference room. Flexibility of the furniture and removable equipment play an important role.



02 / Komunitní centrum Pradelna



03 / Komunitní centrum Neseďím, sousedím



04 / Komunitní centrum Kardašovská



05 / Komunitní centrum Pradelna





**+ Autor:**

Anđela Ratković

**+ Atelier Šestáková - Dvořák**

**Supervisor:** prof. Ing. arch. Šestáková Irena

**Assistant Professor:** Ing. arch., Ph.D. Dvořák Ondřej

The assignment of the diploma project was to design a community center for the Pernikářka neighbourhood in Prague 5 municipal district, located on the west side of the Vltava river, just south of the Petrin hill and Strahov stadium and student dormitory complex. Pernikarka neighbourhood is defined by Na Hřebenkach street to the South and East, Turistická and Pod stadiony streets to the North and Podbělohořská street to the West. The site location is connected to the Palata landscape, which belongs to Home for the Visually Impaired and so one of the main goals of the project assignment was to establish a respectful connection to the existing context of the neighbourhood and the landscape.

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The dominant characteristics of Pernikářka neighbourhood which can be observed from site visits are most definitely its topography and residential character. The terrain is sloped and hill-like, while the predominantly single-family housing character of this neighbourhood gives a very private and almost isolated impression. From the previous location analysis we can also observe that there is a lot of greenery present and this neighbourhood maintained a healthy environment due to its topography and has a good source of light. These factors were important when developing the design concept. When developing the design concept, the most important factors were to preserve the neighbourhood single family urban tissue that is at the same time very private and isolated, but to utilize the benefits of the existing landscape, greenery, healthy environment (air, noise pollution) and a good orientation to the South.

The form of the community center is a group of pavillion like structures that are divided according to the necessary functions from the project assignment. This division ensured that the forms of each individual object are not overwhelming in their volume to the neighbouring single-family buildings, but at the same time the group as a whole can concur to the Palata dominant volume visible to the North of the site. The form was further influenced by pathway communications with the landscape which needed to ensure free movement and access in order to connect to the Palata landscape and to utilize the outdoor environment. Both due to the site's position and to maximize indoor sunlight, skylights were added in order to create some sort of „fifth facade” since the roof would be visible from the North but also other neighbourhoods to the West.

The community center has 5 objects/units:

1. Kindergarten
- 2,3. Retirement community with housing
4. Library
5. Youth Center

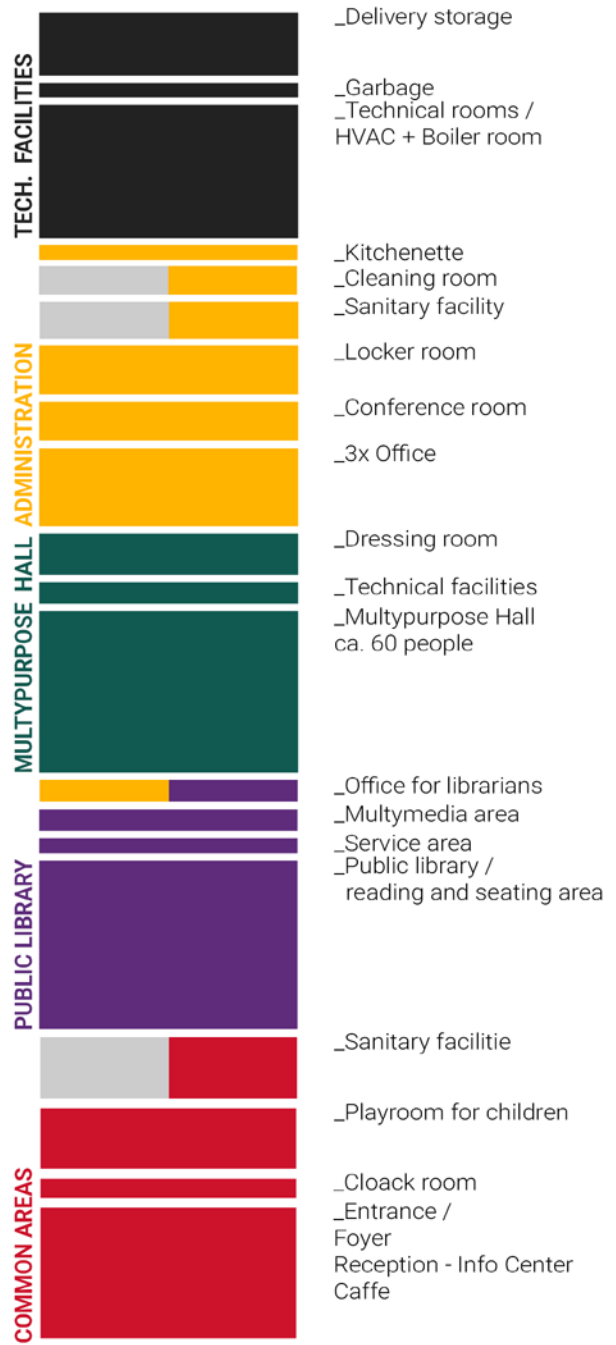
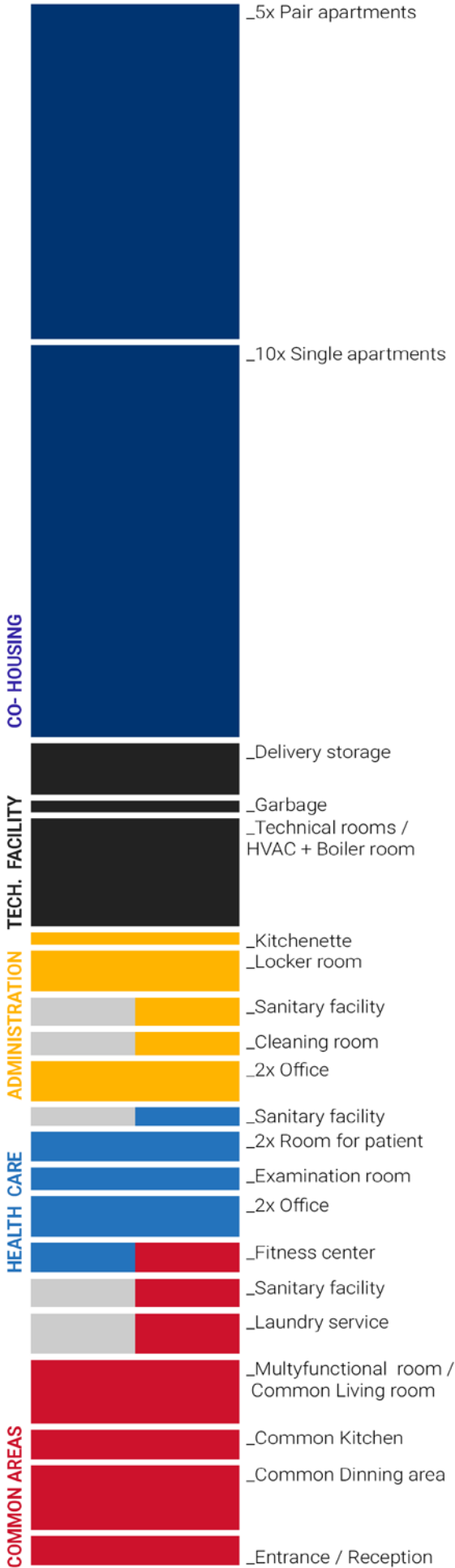
Accessible to the public

They are grouped around a central square and therefore maintain a level of private character, however, they are also well-connected to the outdoor park both through plateaus, pathways and number of entrances.

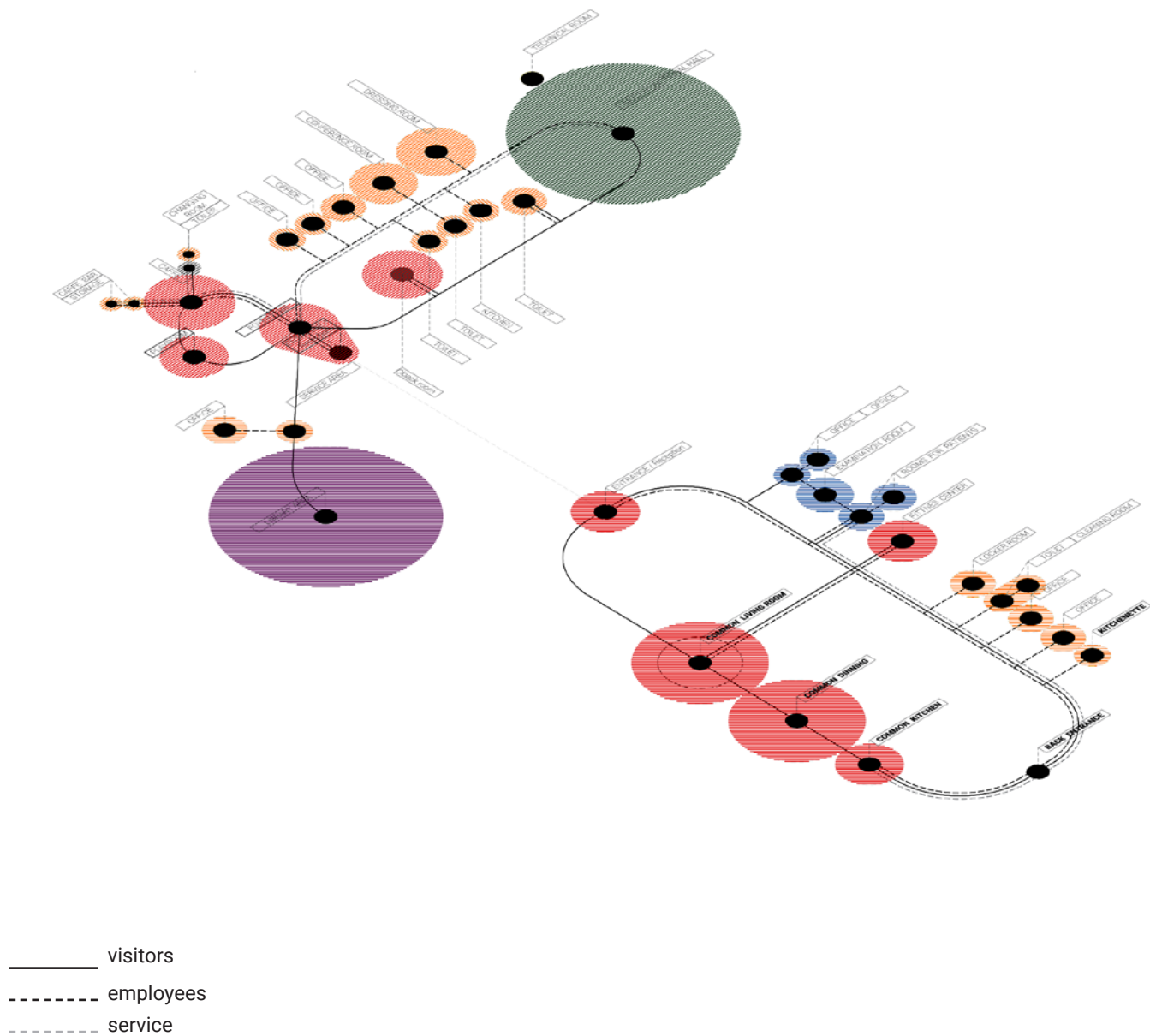
Educational and commercial activities were positioned to the South towards the main Na Hrebenkach street which is also the main direction visitors will be arriving to both from the city and the neighbourhood. The Kindergarten is positioned to the West due to the calmer environment and good connection with the existing park. The senior club and co-housing are positioned to the North in order to create a calmer ambient and distance from the streets and to incorporate more into the park/natural setting. They have good orientation towards the south, and views towards Palata park to the Northeast.

The entire objects lie on the underground basement level which has a garage with more than 60 parking lots capacity and has the necessary technical rooms. The main construction is the skeletal concrete structure while the roof and skylight are wooden beam structures. The secondary construction of the ventilated facade is mesh aluminum panels attached to the main concrete structure. Double facade can improve thermal and acoustic insulation, allow natural ventilation and air renewal for a healthier environment and reduce cooling and heating demand. The final layer of the facade is steel mesh which is wind and weather resistant and is almost completely recyclable.

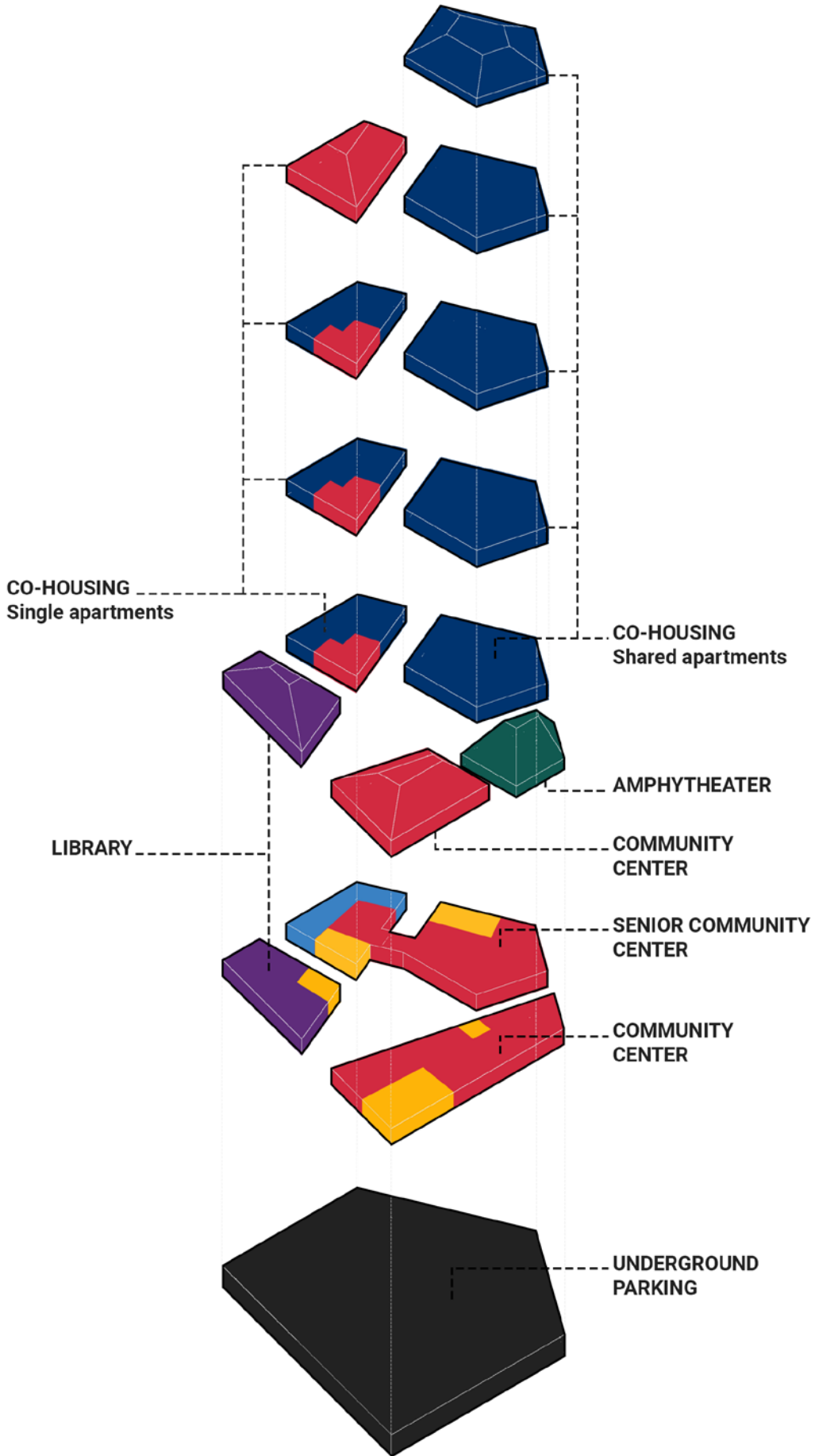
# Program analysis.



# Analysis of connections.



# Innitial proposal for program

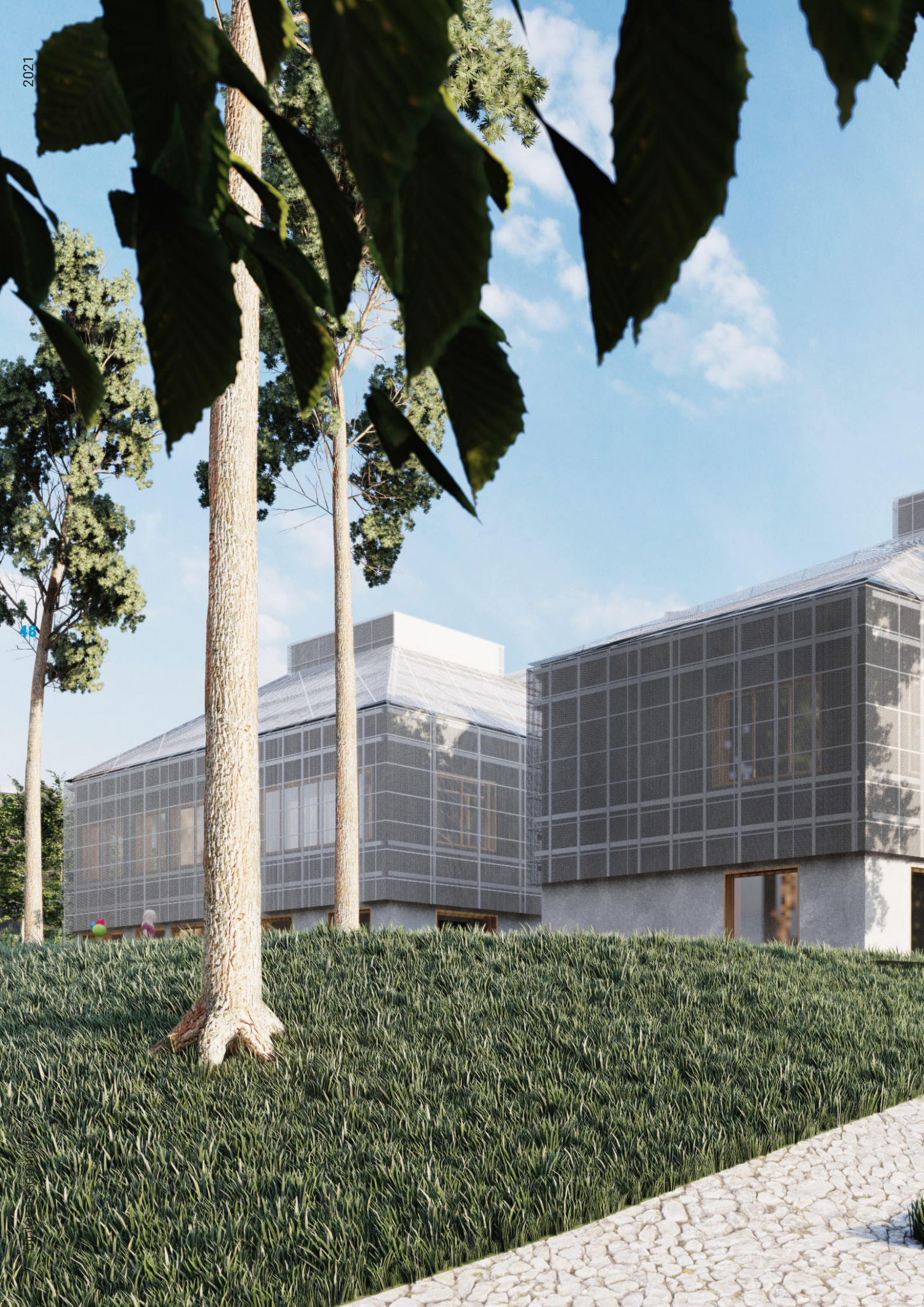


# Schwartzplan.

2021

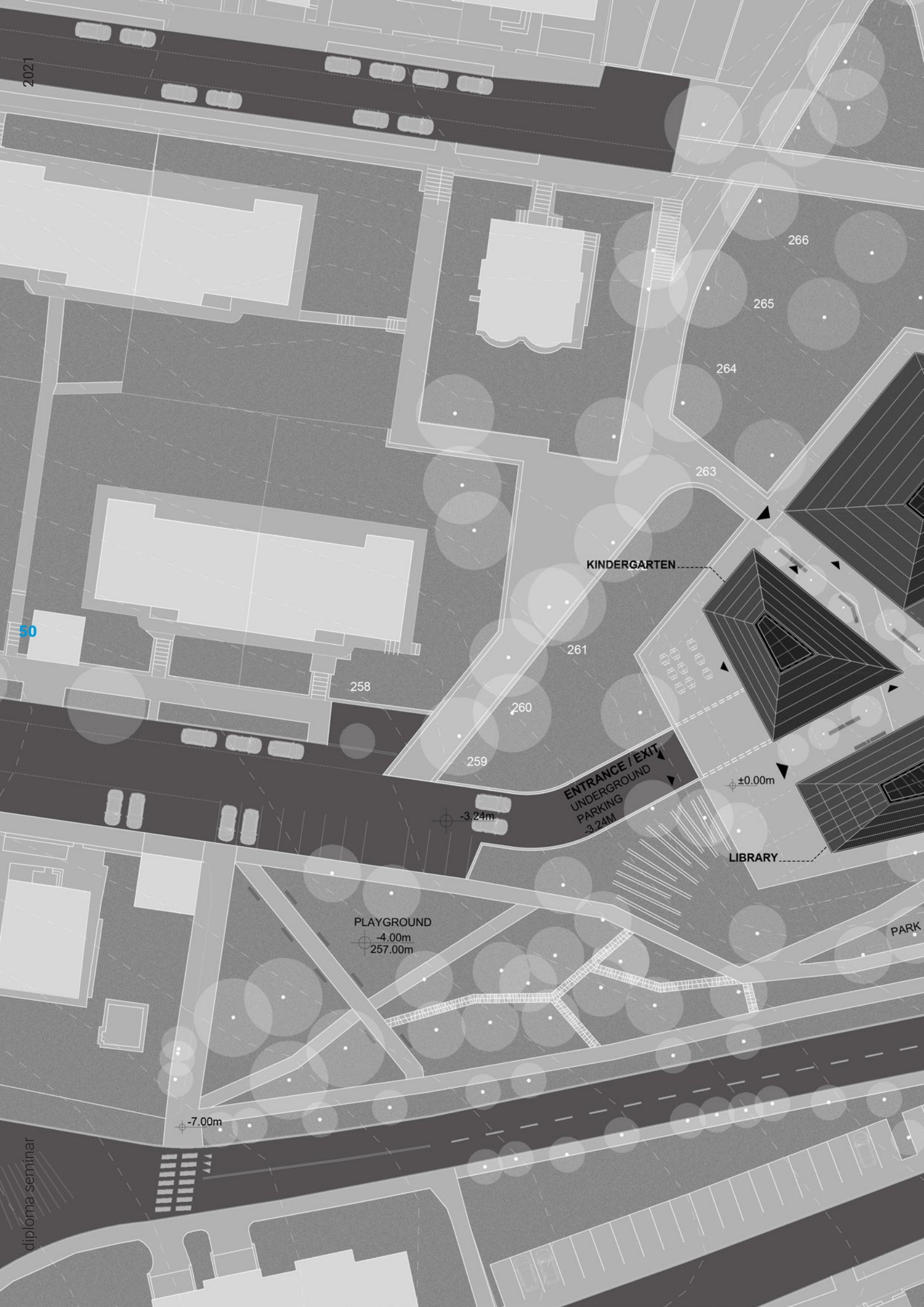


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# Site plan 1:750

+5.00m

RETIREMENT  
COMMUNITY

+3.24m

+5.00m

+3.24m

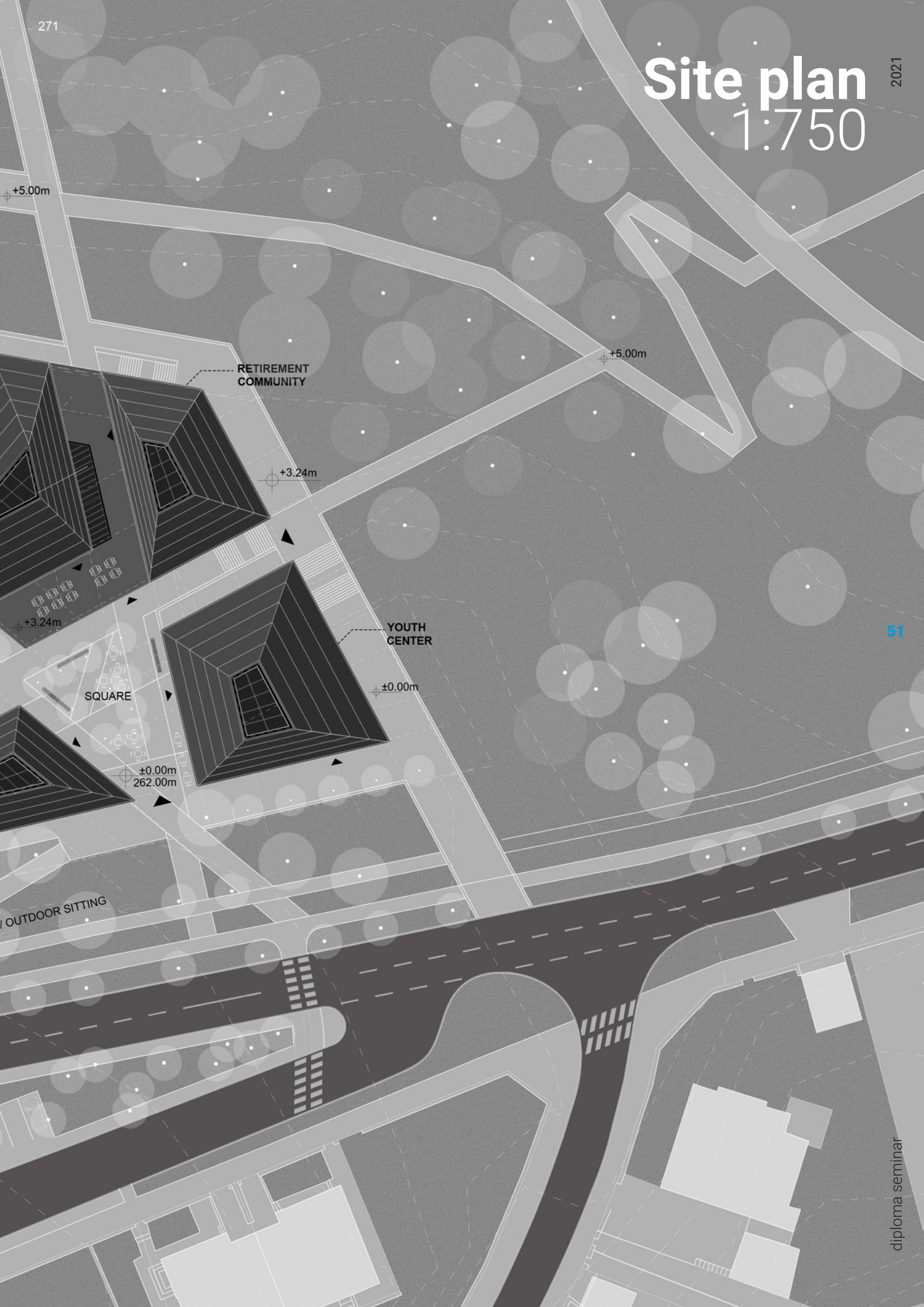
YOUTH  
CENTER

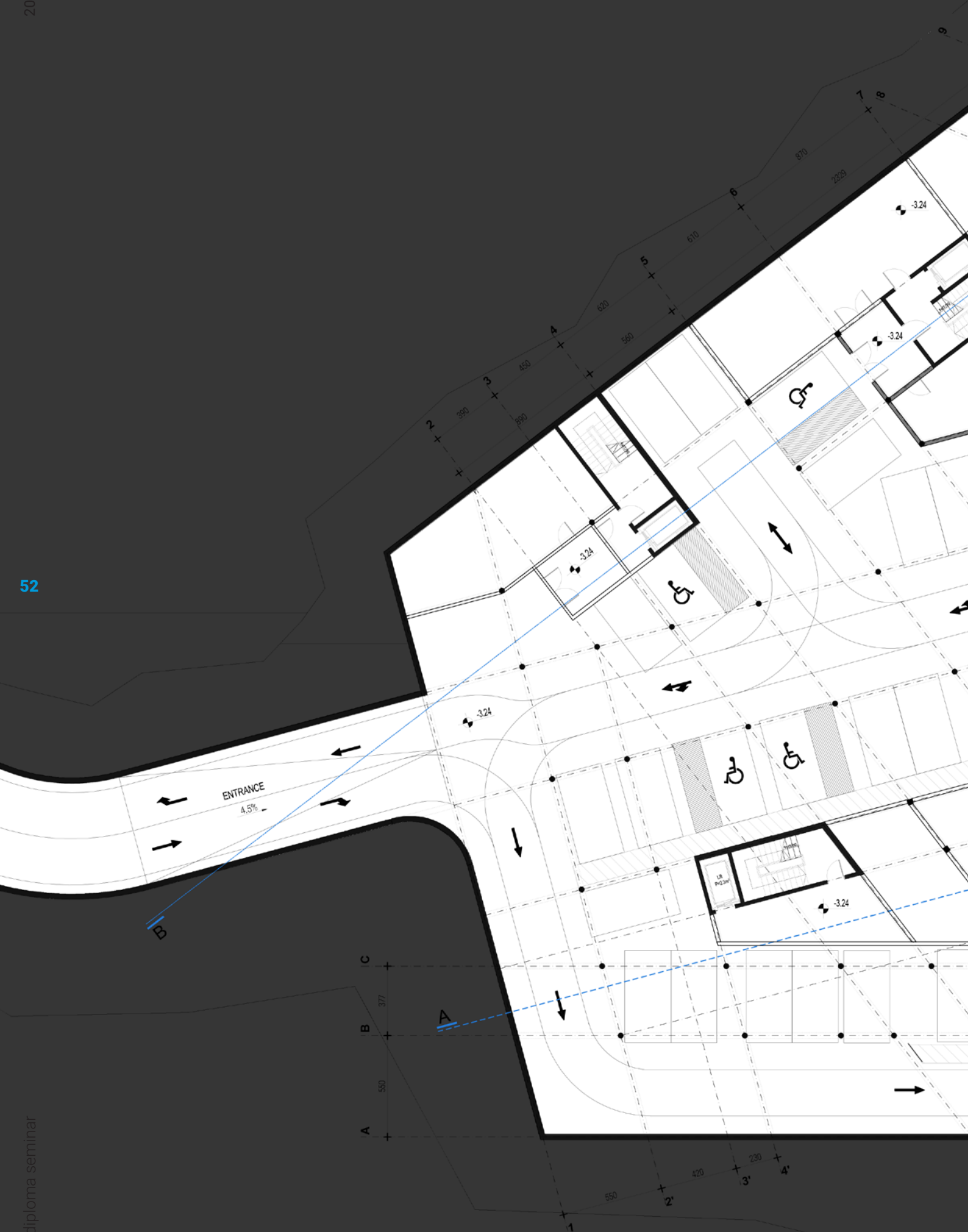
±0.00m

SQUARE

±0.00m  
262.00m

OUTDOOR SITTING

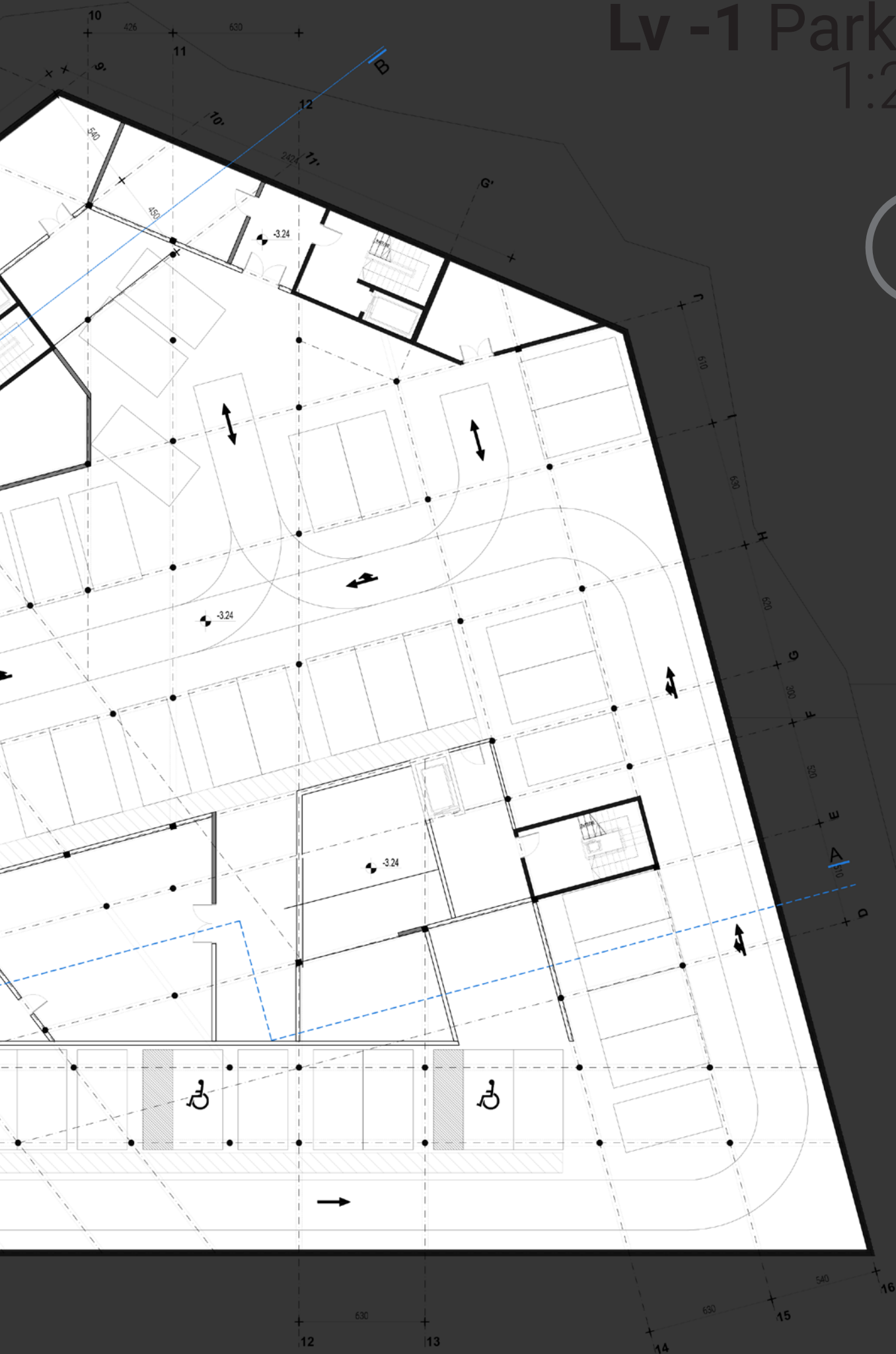


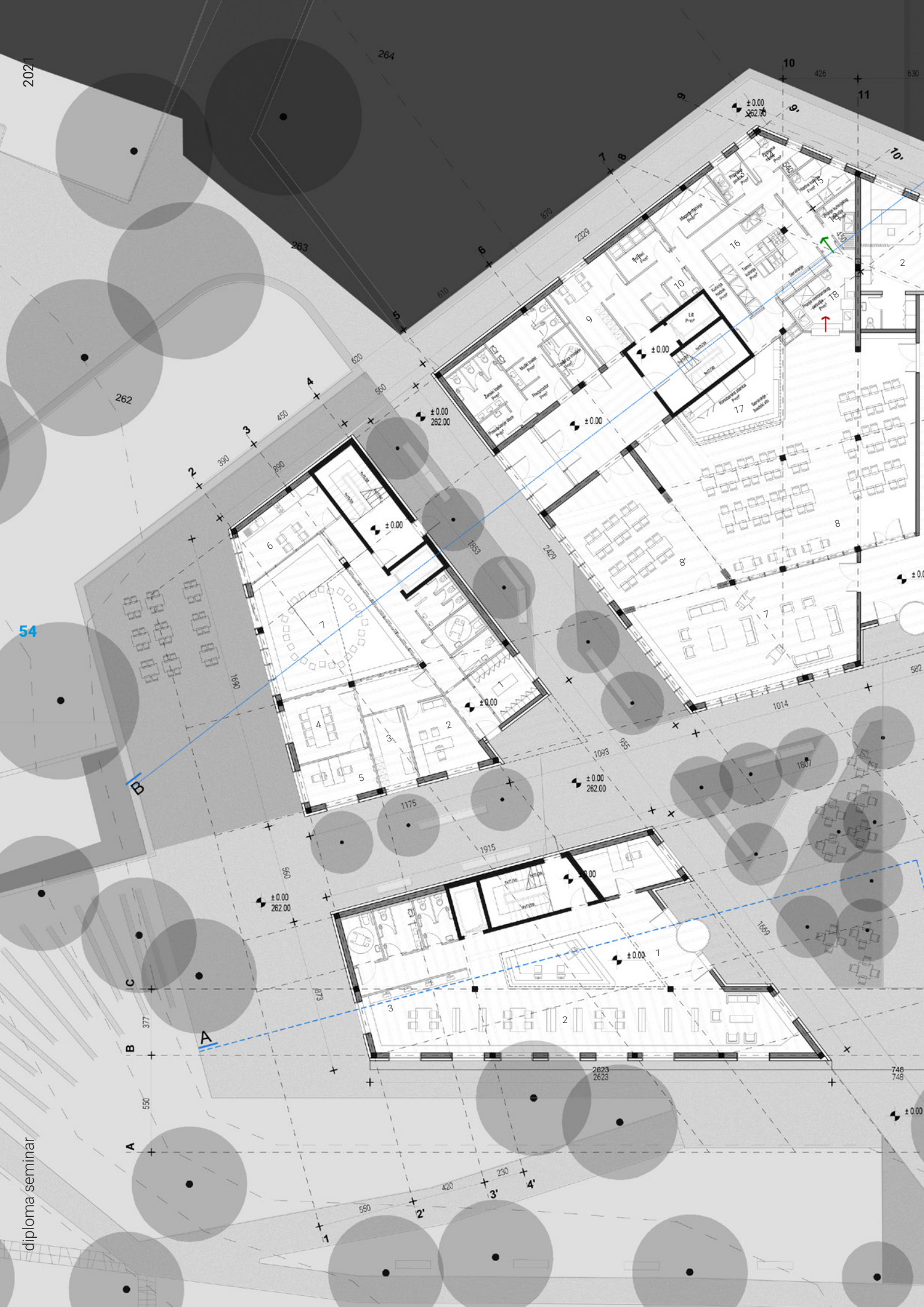


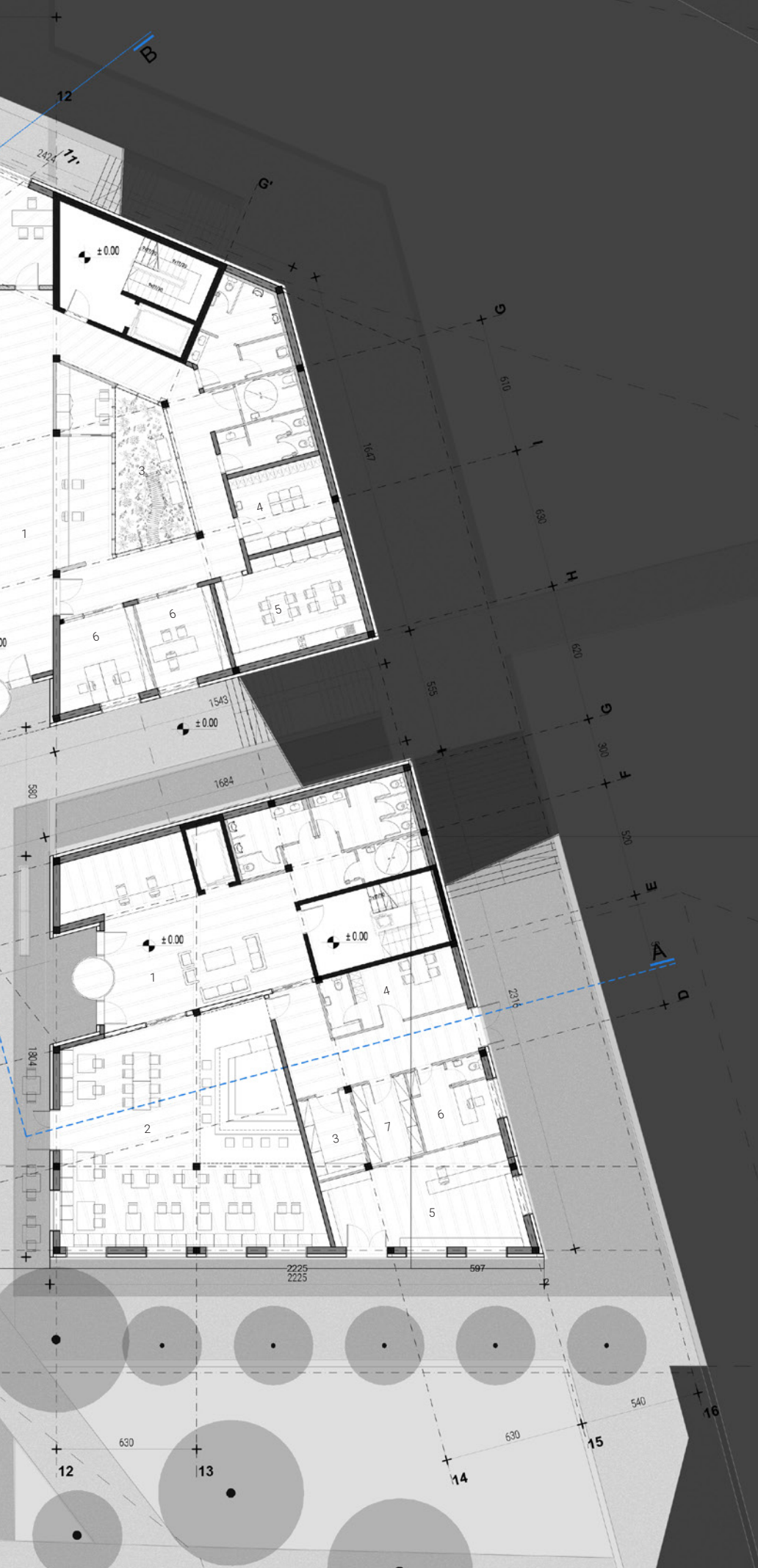
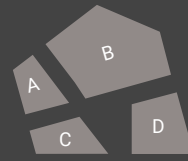
# Lv -1 Parking

## 1:200

2021







### BUILDING A - KINDERGARTEN

1. Entrance with lockers
2. Counseling room
3. Changing rooms for employees
4. Staff room
5. Office
6. Common kitchen
7. Multipurpose room

### BUILDING B - RETIREMENT CENTER

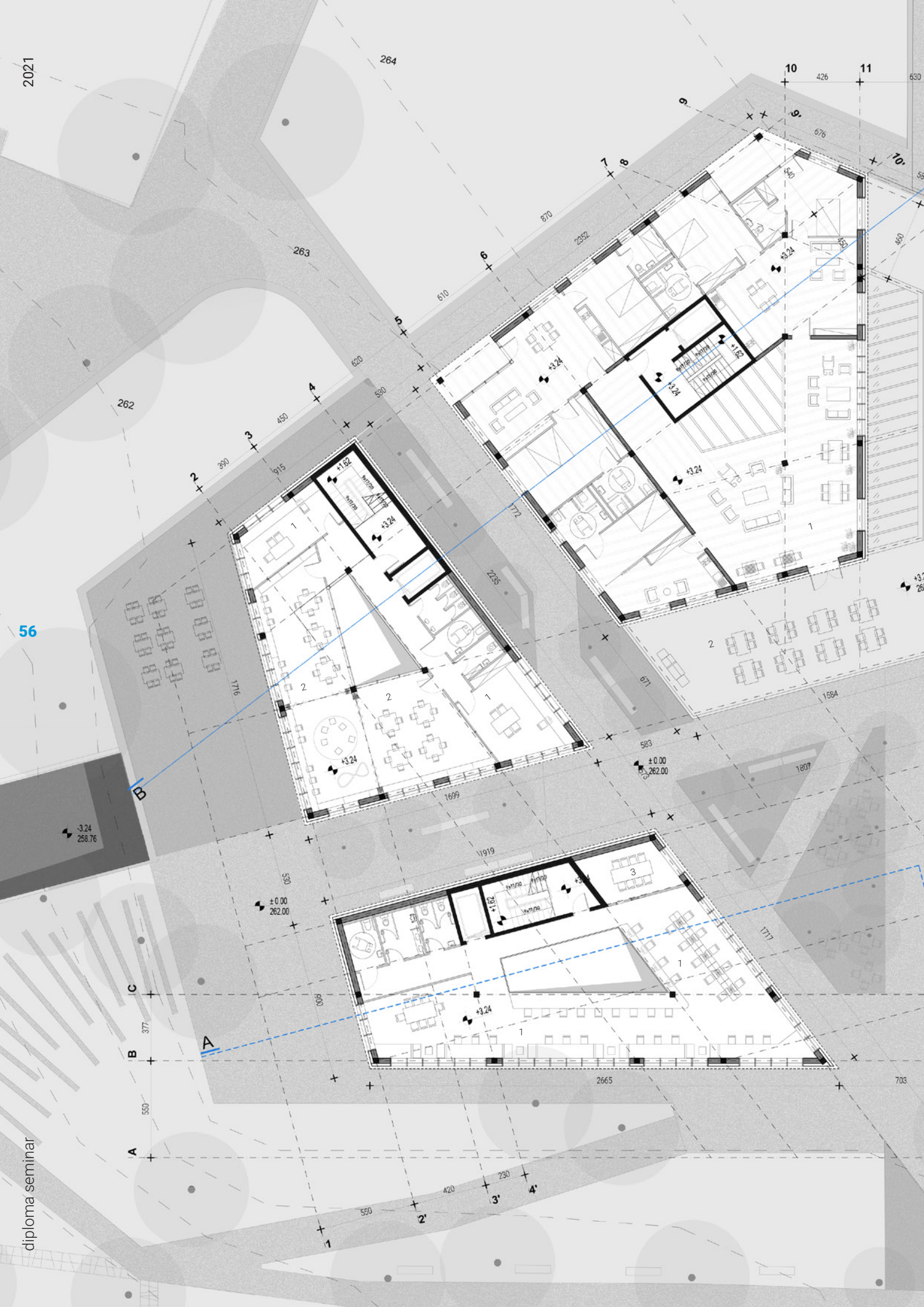
1. Entrance / Reception
2. Ambulance
3. Inner garden
4. Changing room
5. Staff room + Kitchenette
6. Office
7. Common living room
8. Canteen
- 8'. Canteen and multipurpose room
9. Day room with lockers for restaurant employees
10. Shower and toilet
11. Freezer
12. Dry food storage
13. Preparation of vegetables
14. Preparation of meat
15. Cold kitchen
16. Warm kitchen
17. Serving pult with waiters station
18. Washing dishes

### BUILDING C - LIBRARY

1. Entrance / Reception
2. Administration
3. Library
4. Digital library

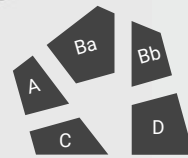
### BUILDING D - YOUTH CENTER

1. Entrance (Reception + Lobby)
2. Caffe
3. Storage for caffe
4. Staff room for caffe
5. Shop
6. Staff room for shop
7. Storage for shop





# Lv 1 1:250



## BUILDING A - KINDERGARTEN

1. Staff rooms
2. Classrooms

## BUILDING B.a - SENIOR HOUSING

1. Common fun room
2. Outdoor sitting / barbeque
3. Apartments

## BUILDING B.b - SENIOR HOUSING

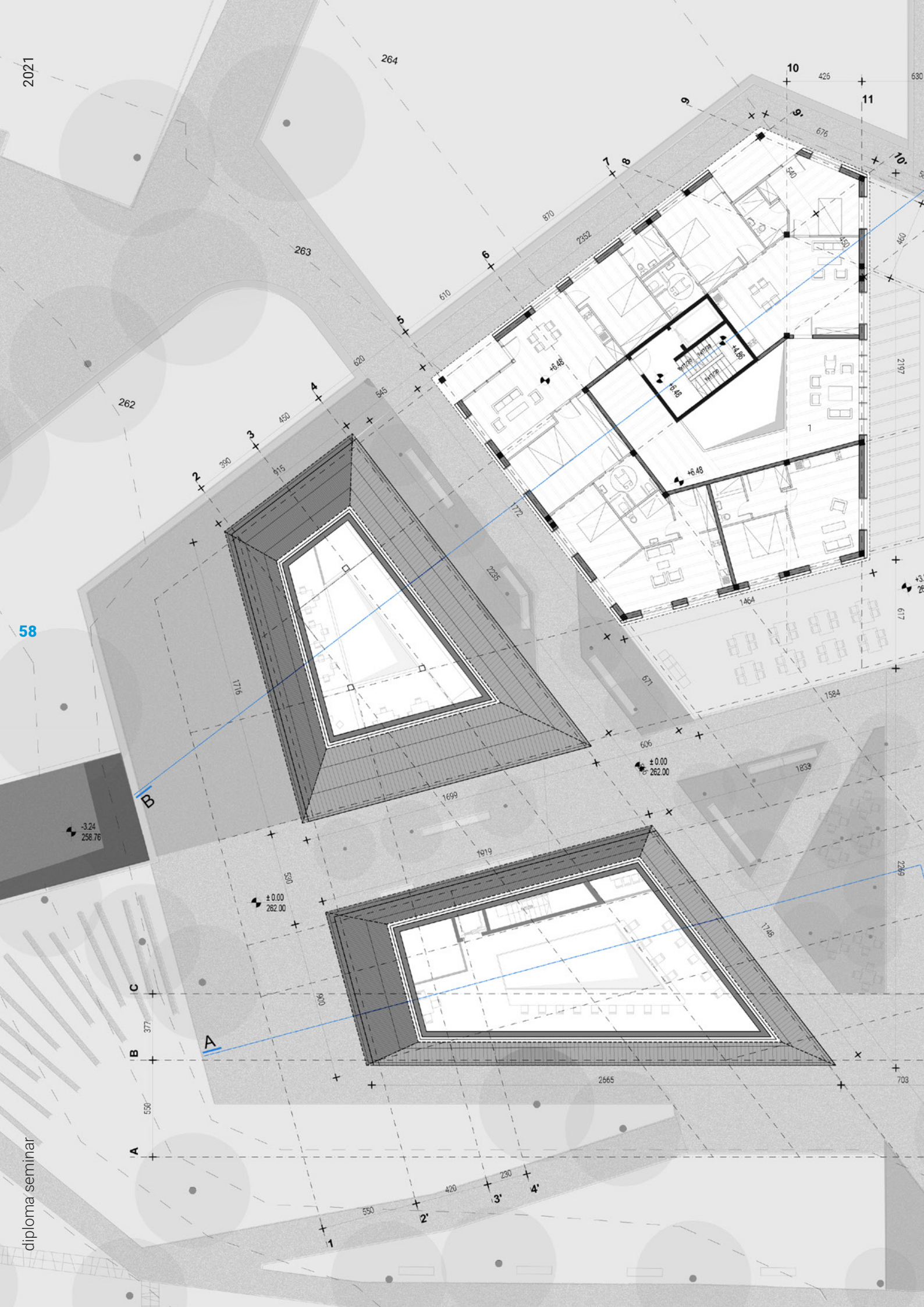
1. Common room
3. Apartments
  - 3.1 1+kk apartment
  - 3.2 2+kk apartment
  - 3.3 3+kk apartment

## BUILDING C - LIBRARY

1. Study area
2. Mediateque
3. Conference room

## BUILDING D - YOUTH CENTER

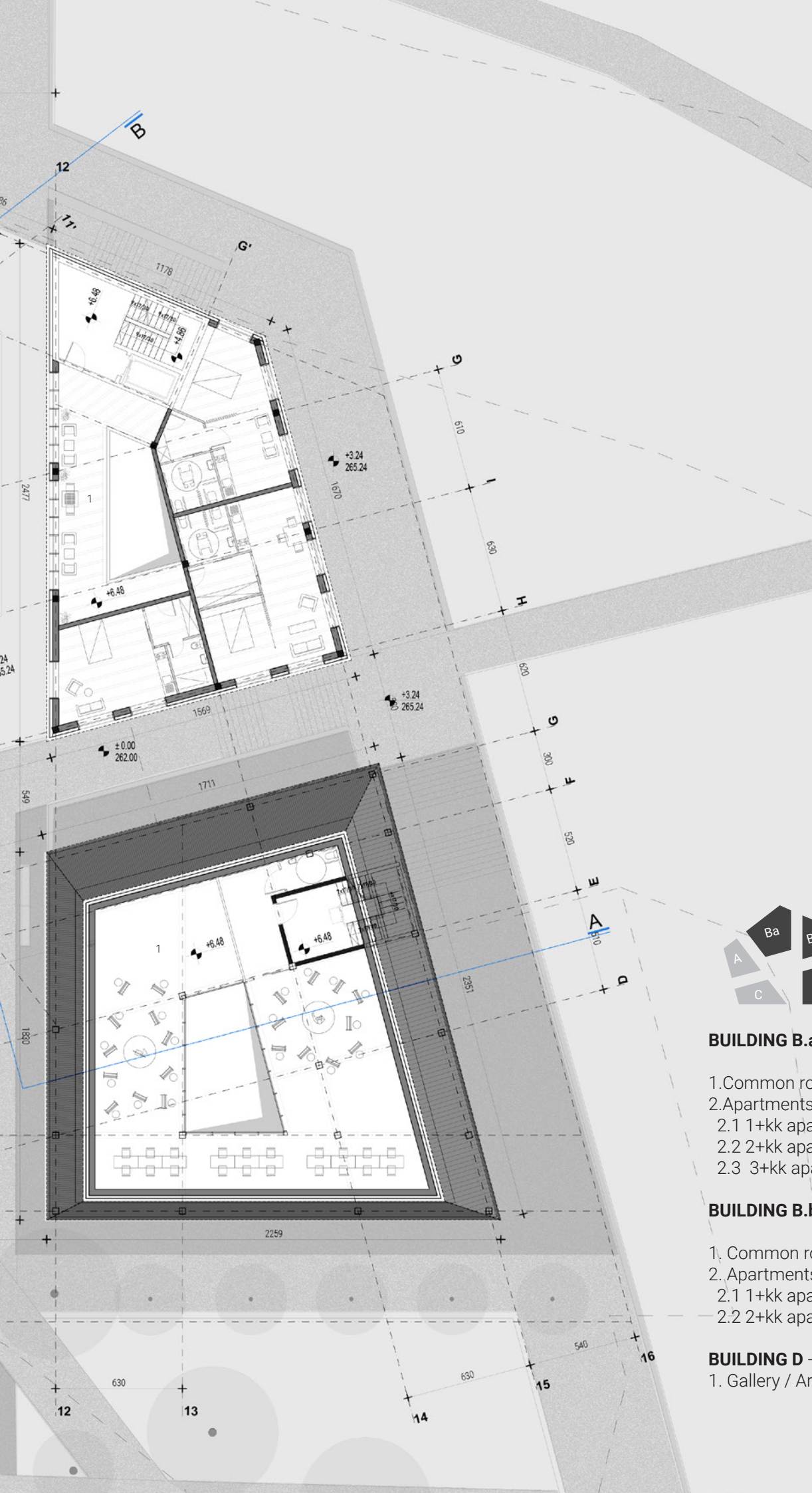
1. Classrooms
2. Staff room
3. Conference room
4. Multipurpose room



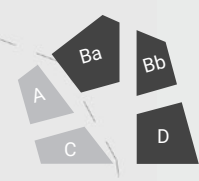
# Lv 2

## 1:250

2021



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### **BUILDING B.a** - SENIOR HOUSING

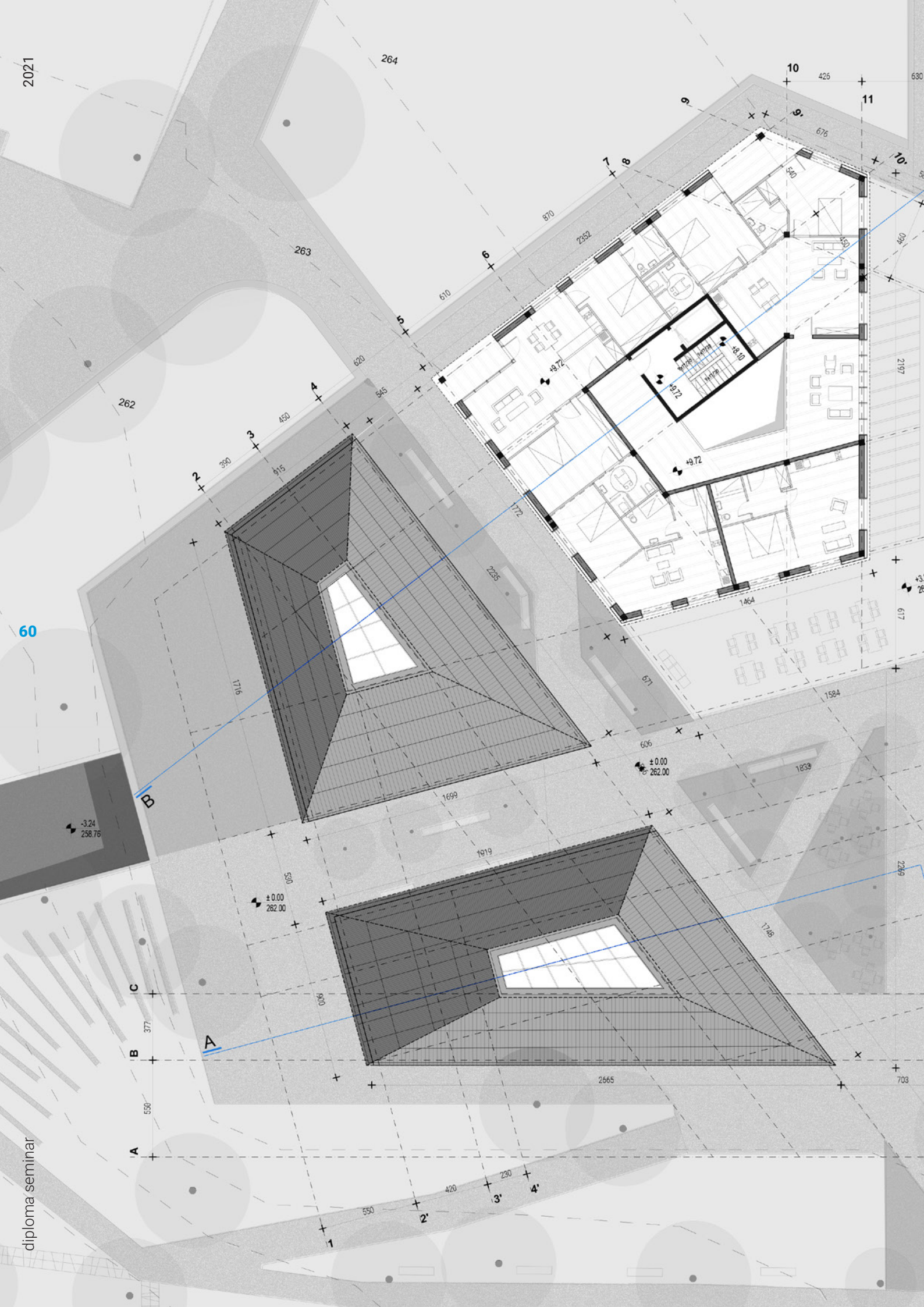
- 1. Common room
- 2. Apartments
  - 2.1 1+kk apartment
  - 2.2 2+kk apartment
  - 2.3 3+kk apartment

### **BUILDING B.b** - SENIOR HOUSING

- 1. Common room
- 2. Apartments
  - 2.1 1+kk apartment
  - 2.2 2+kk apartment

### **BUILDING D** - YOUTH CENTER

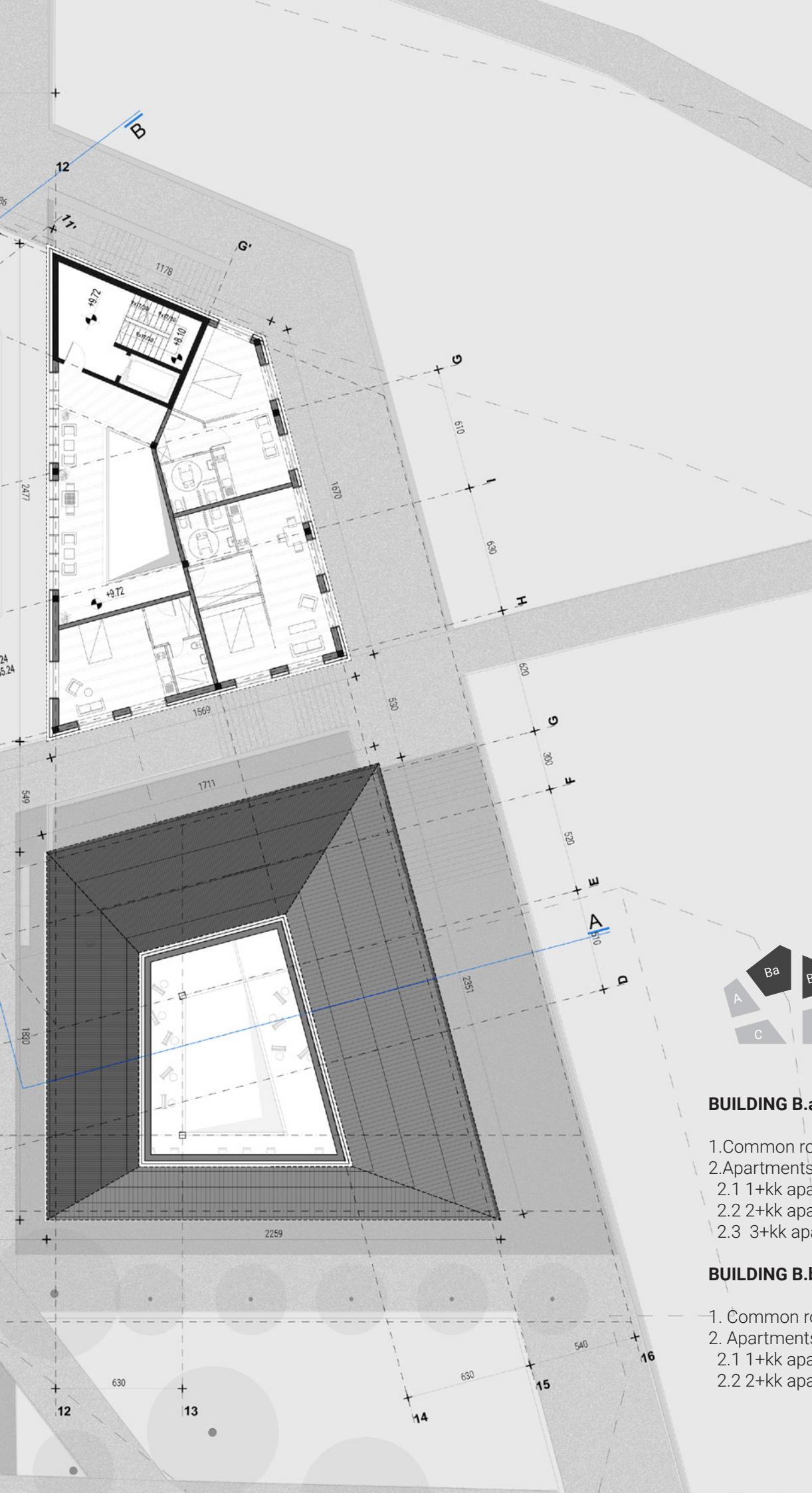
- 1. Gallery / Art studio



# Lv 3

## 1:250

2021



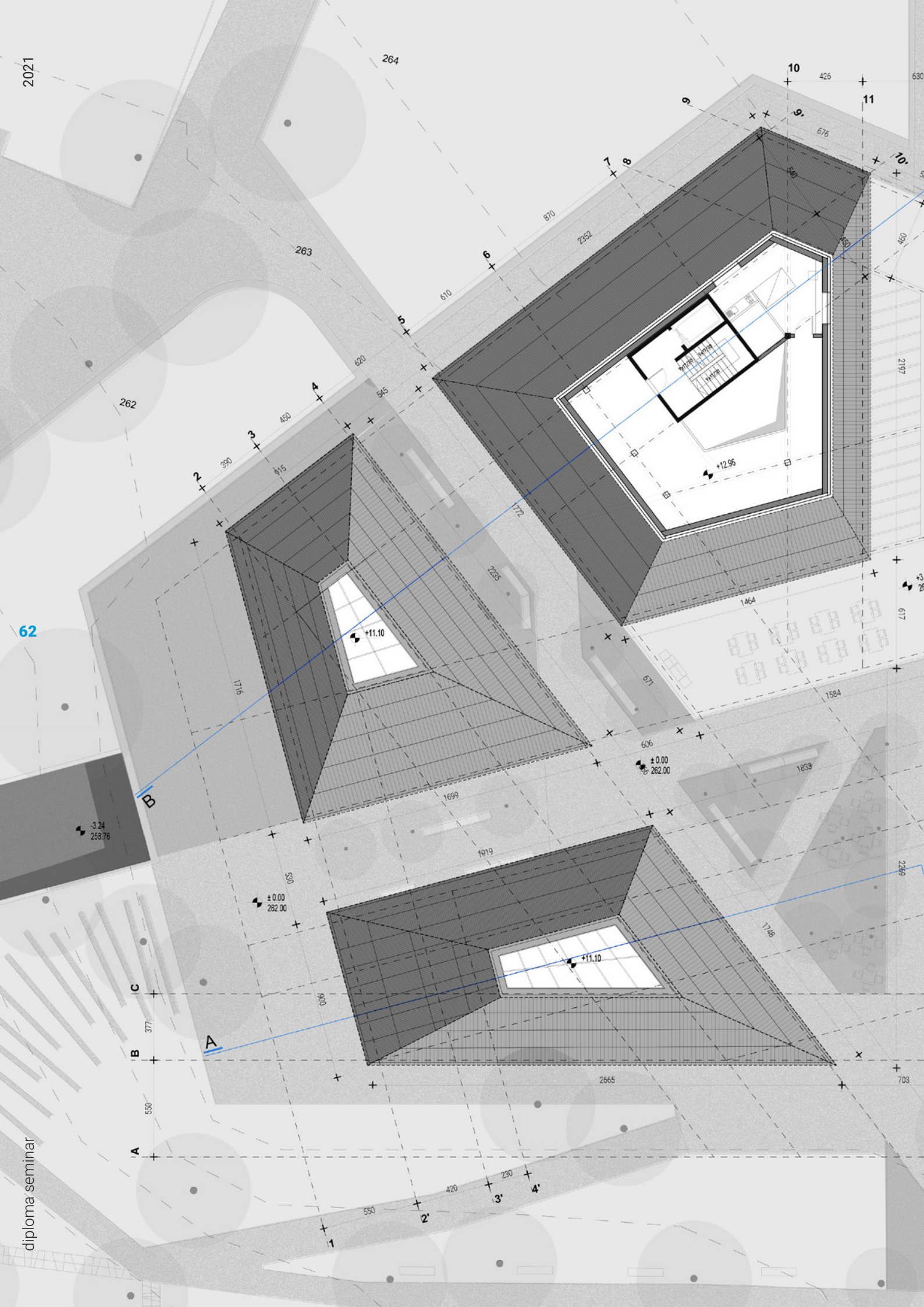
61

### **BUILDING B.a** - SENIOR HOUSING

1. Common room
2. Apartments
  - 2.1 1+kk apartment
  - 2.2 2+kk apartment
  - 2.3 3+kk apartment

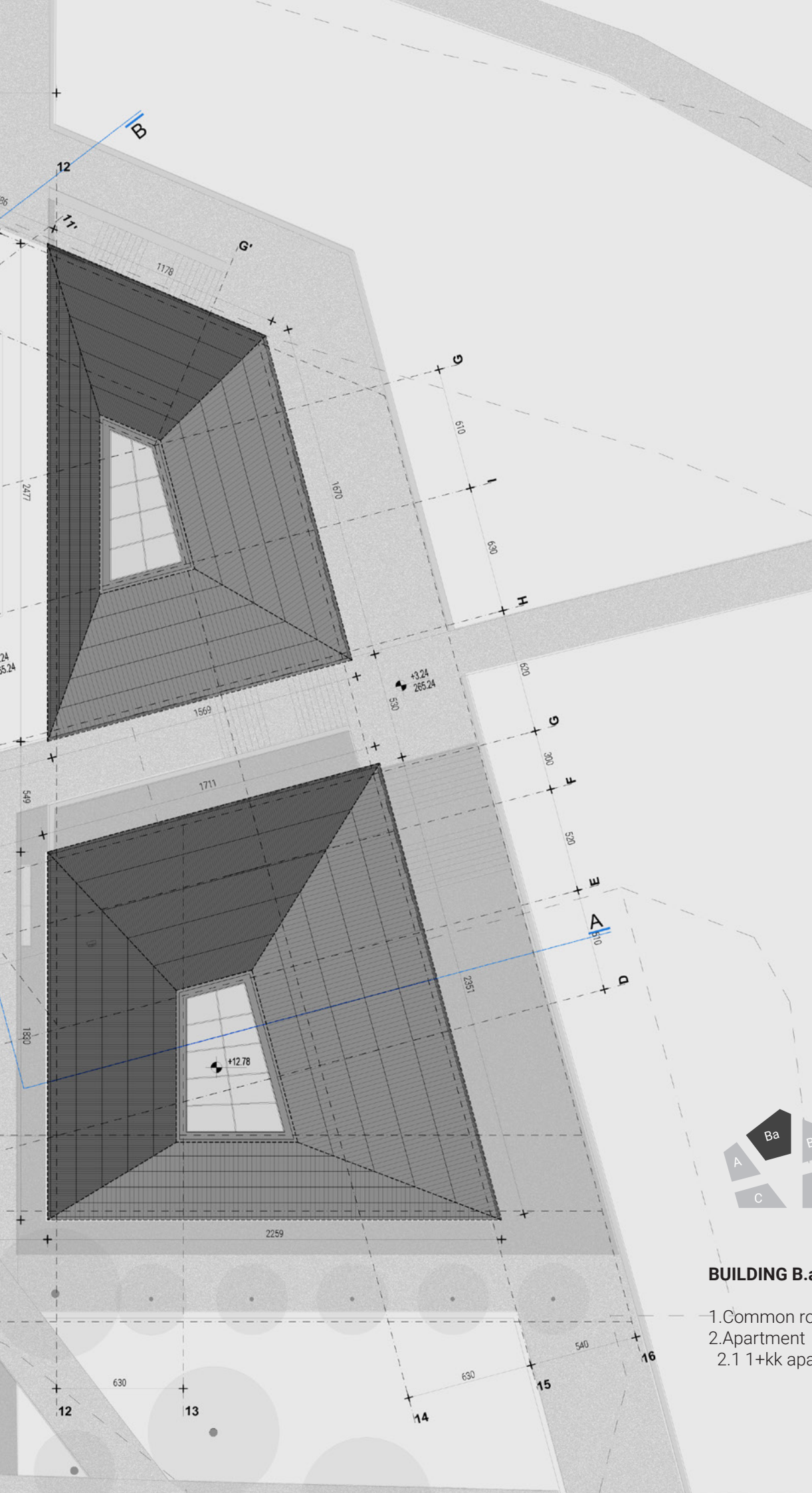
### **BUILDING B.b** - SENIOR HOUSING

1. Common room
2. Apartments
  - 2.1 1+kk apartment
  - 2.2 2+kk apartment



# Lv 4 1:250

2021

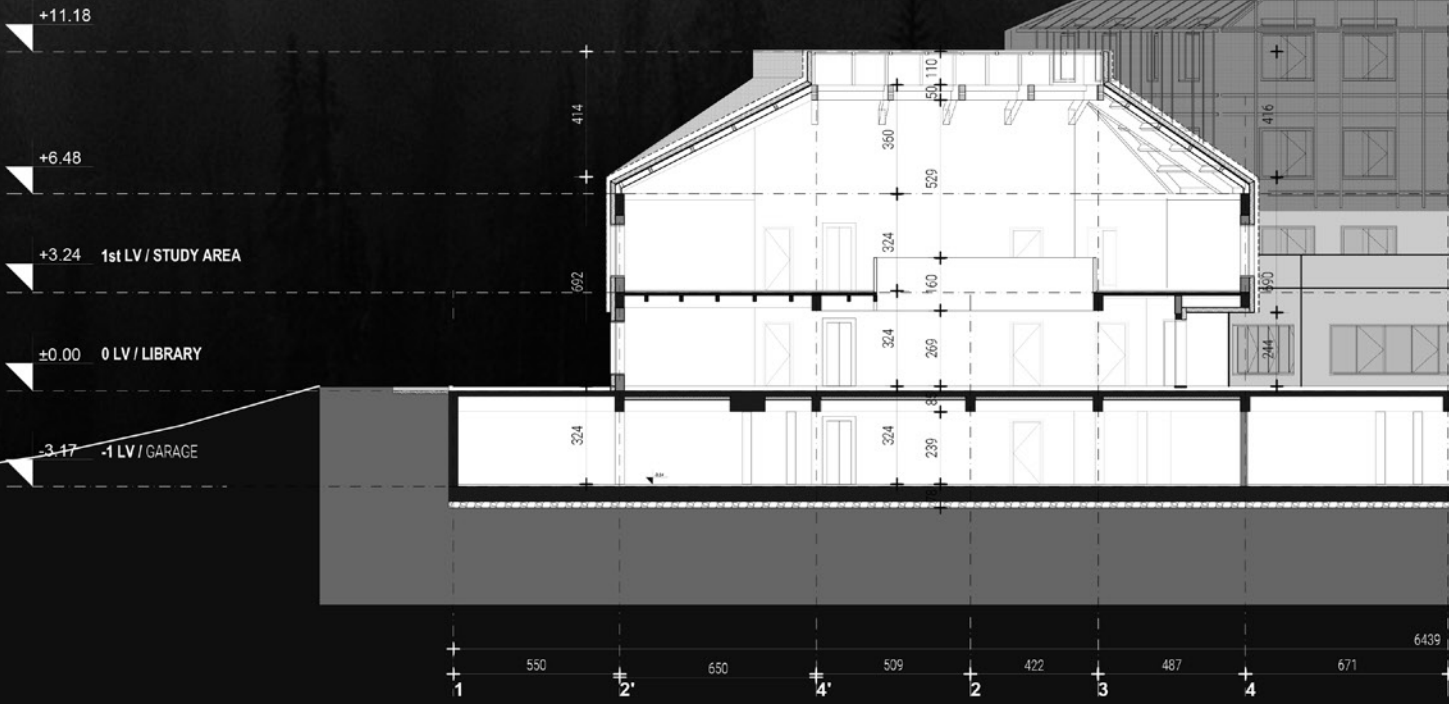


63



## BUILDING B.a - SENIOR HOUSING

- 1.Common room
- 2.Apartment
- 2.1 1+k apartment

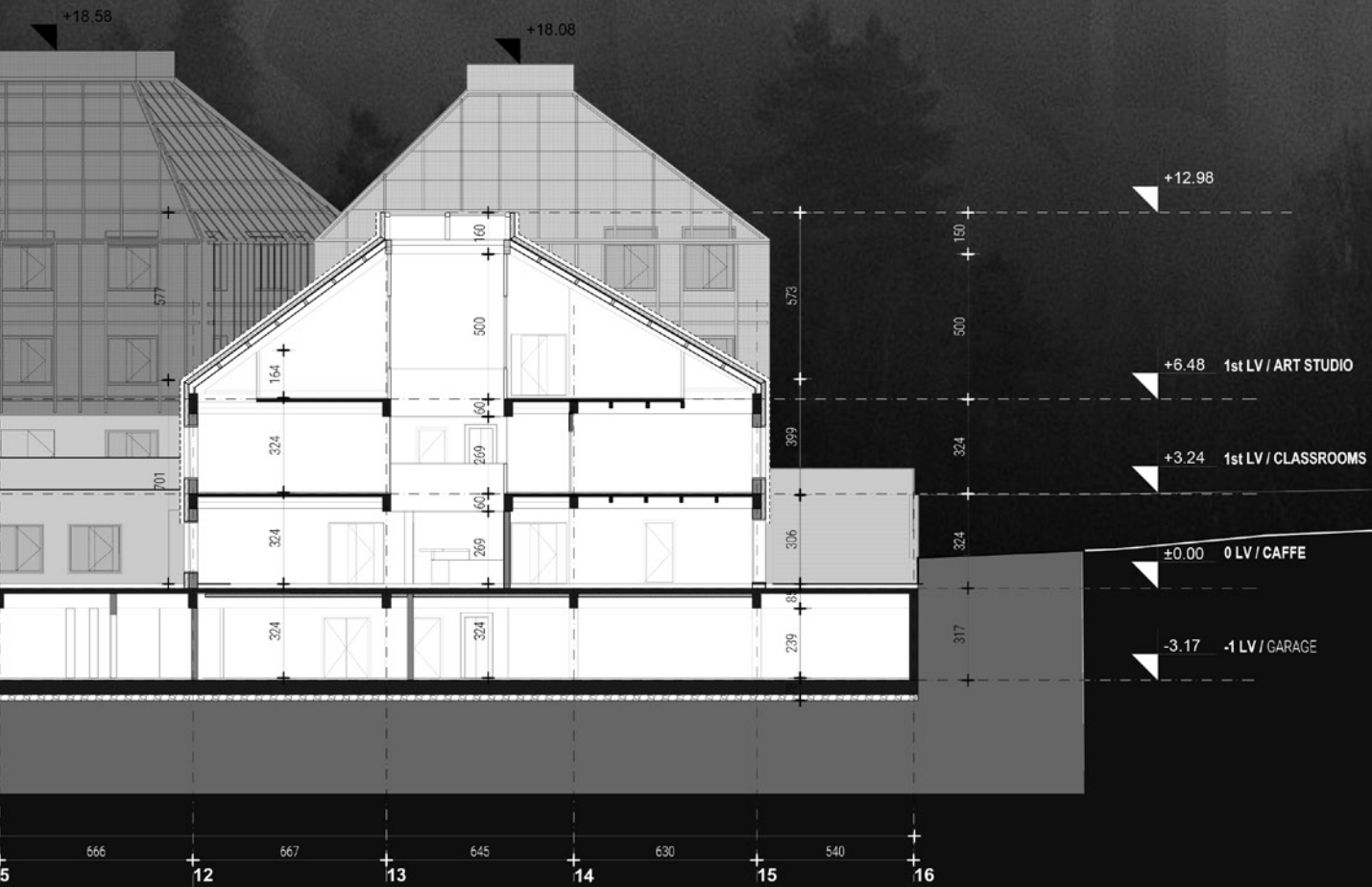




# Section A

## 1:250

2021



65

66



# Section B

## 1:250

2021

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# SOUTH Elevation

1:500

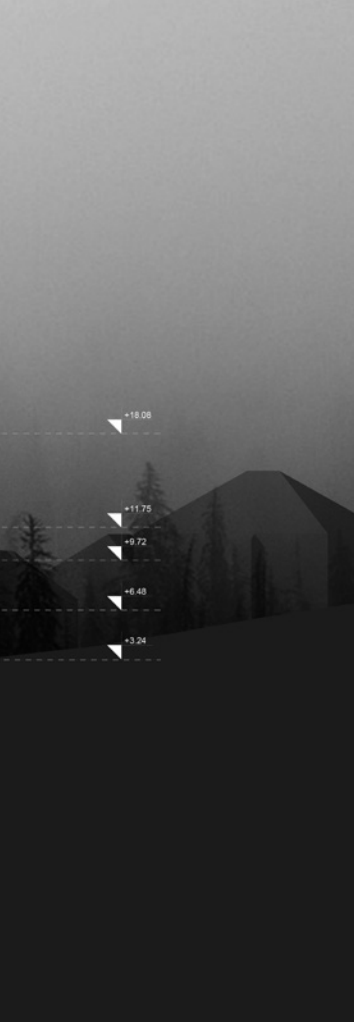
2021



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# EAST Elevation C

1:500





# NORTH Elevation

1:500

2021



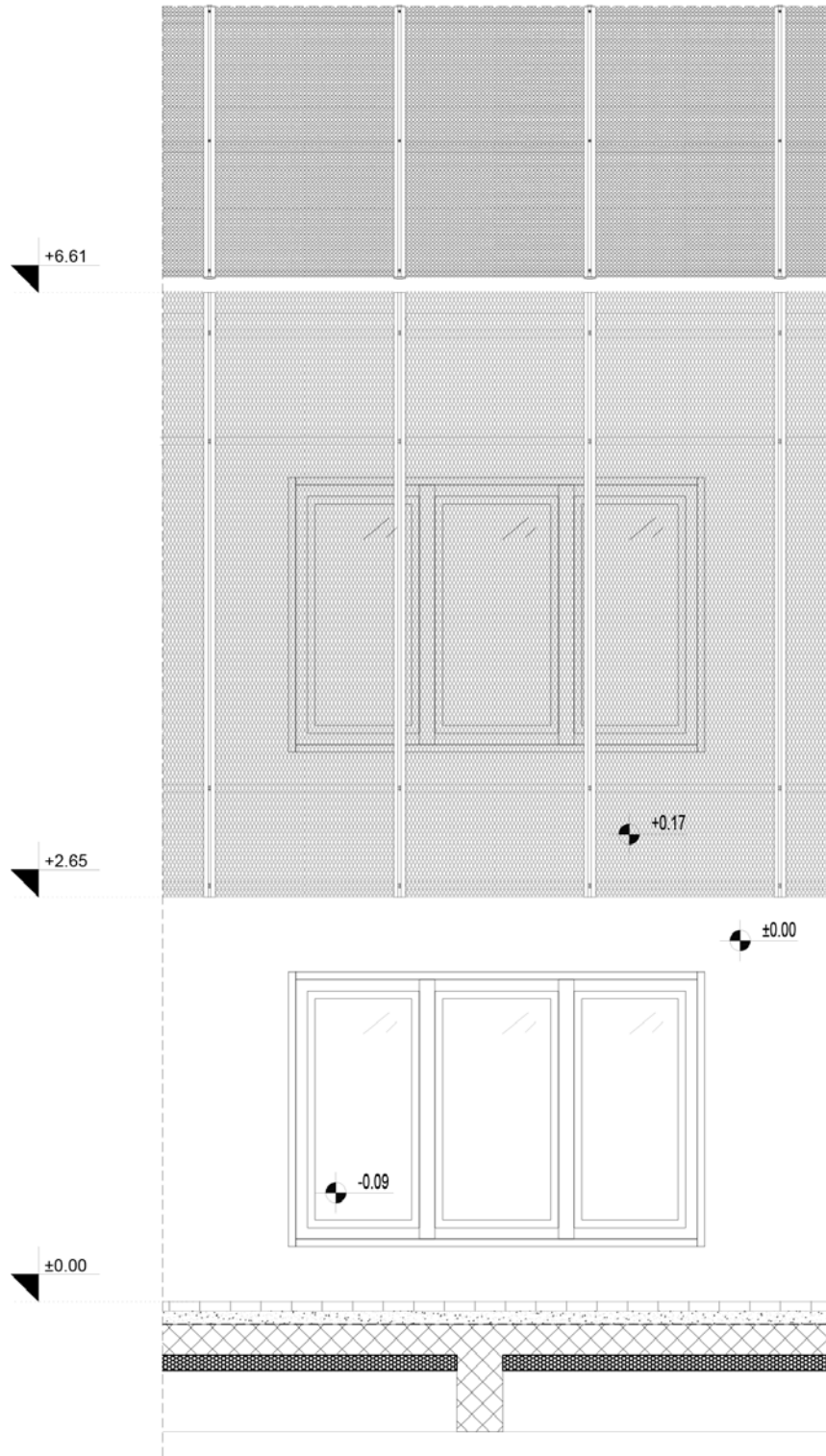
71

# WEST Elevation

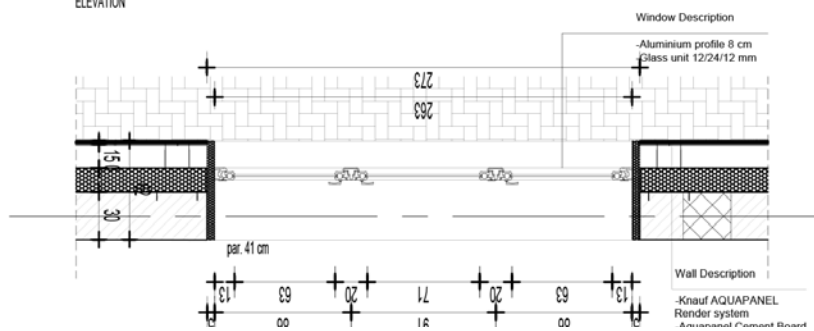
1:500



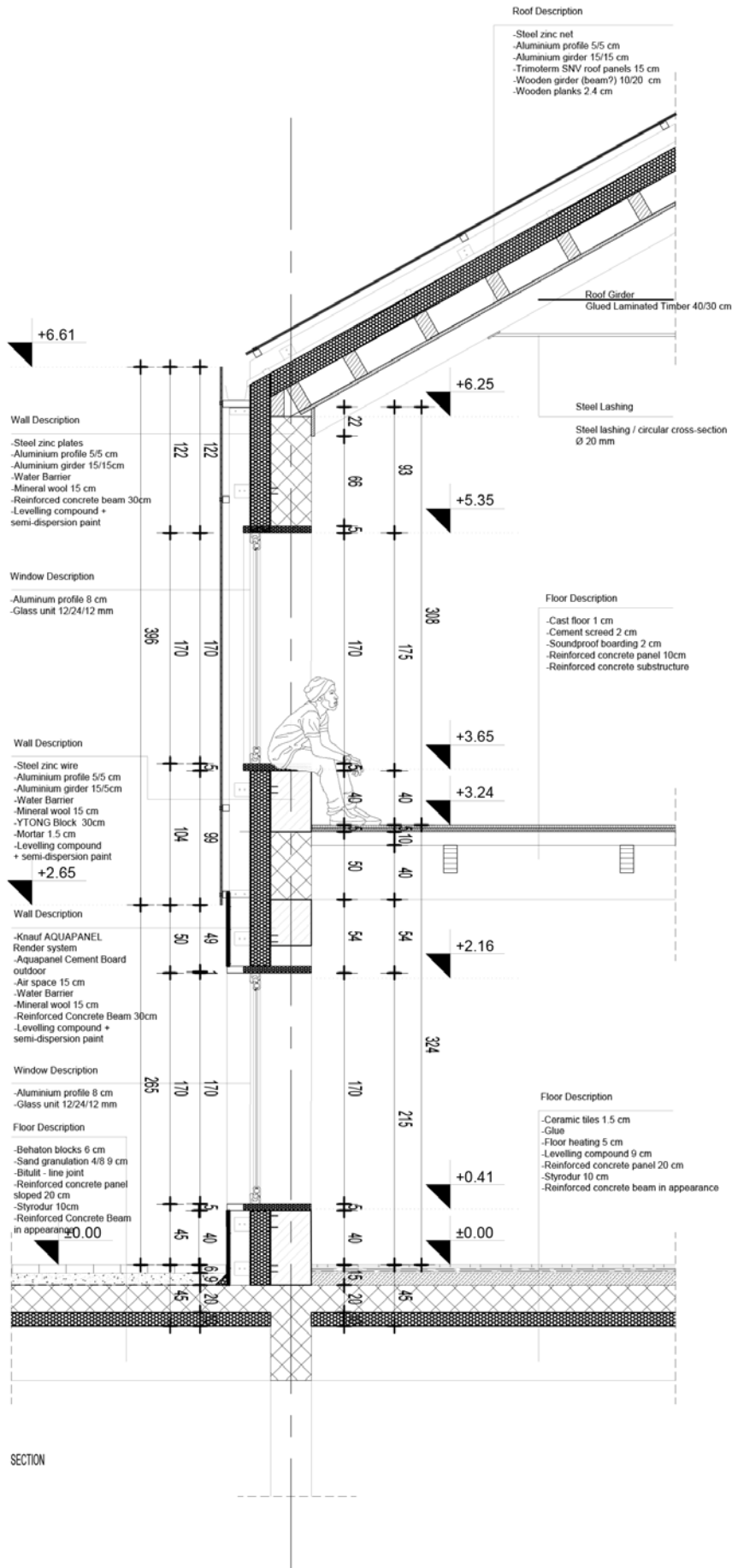
DETALJ R 1:50



ELEVATION

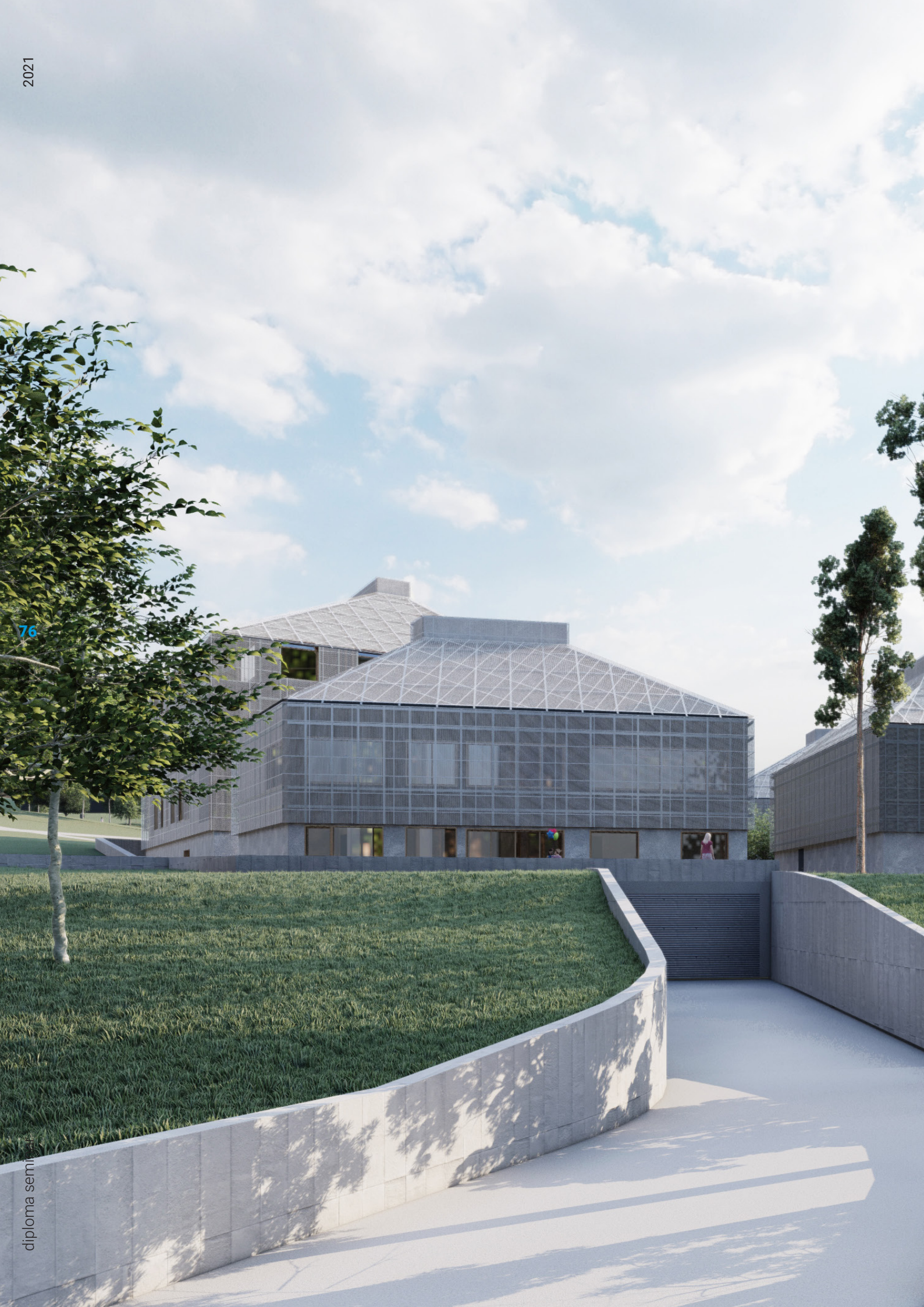








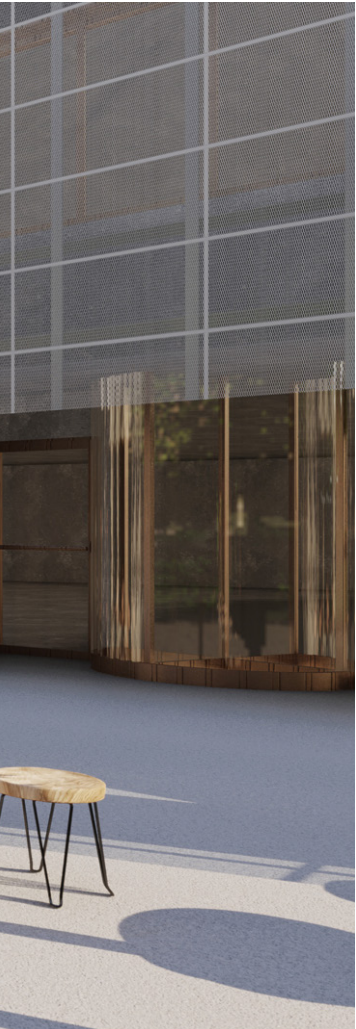




View from U Okrouhlíku sreet







## Terrace of Retirement Community





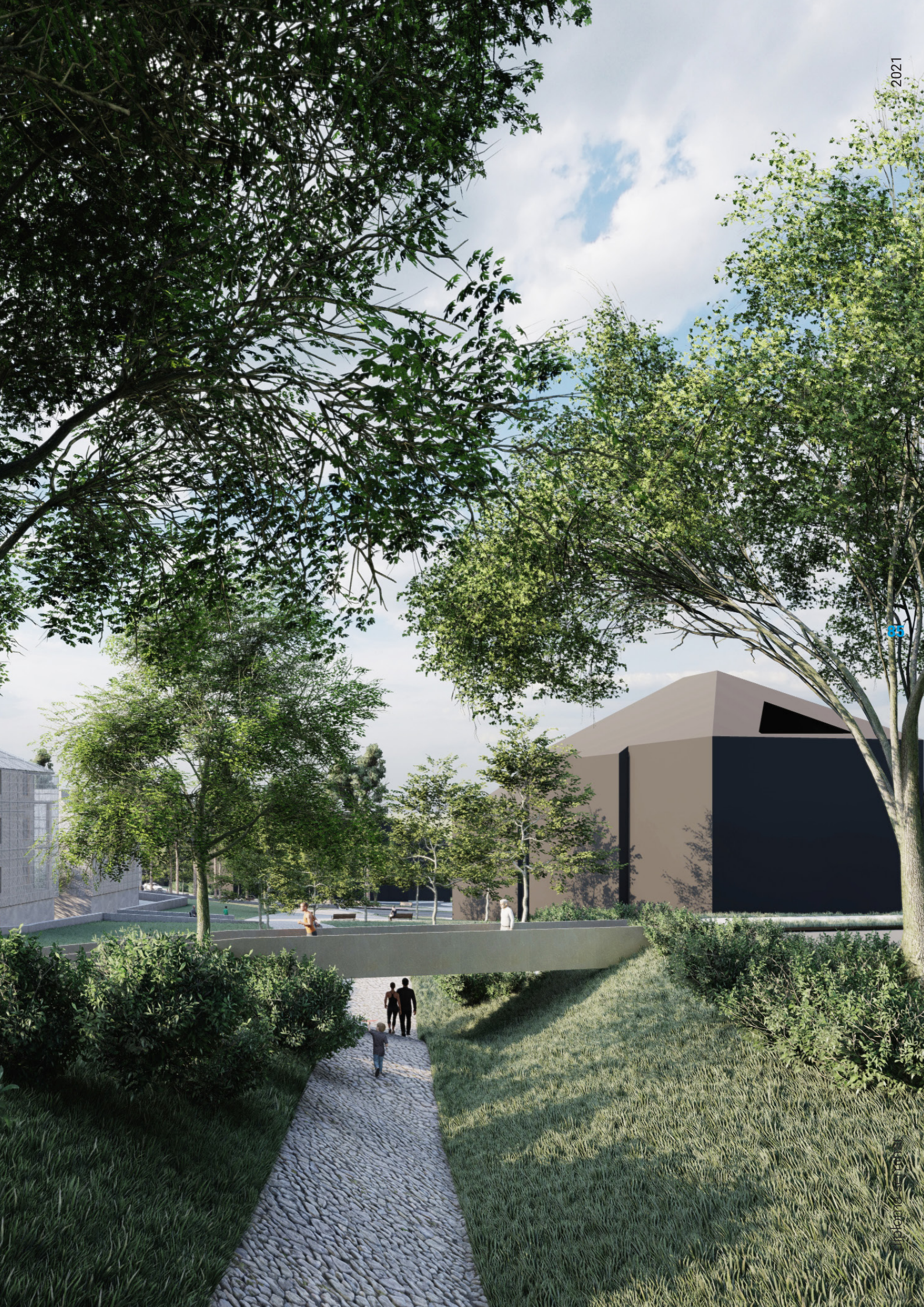


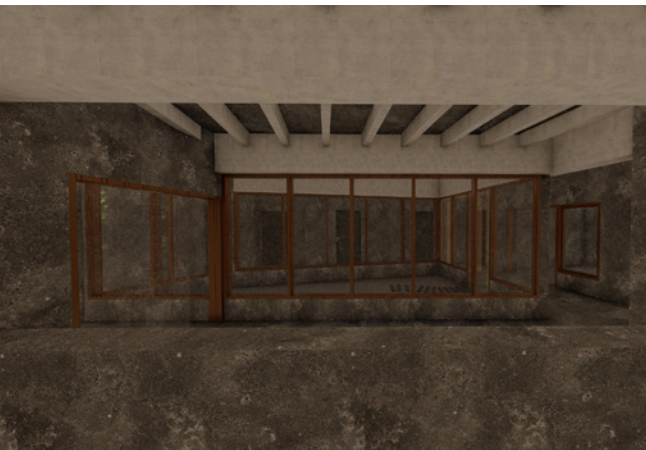
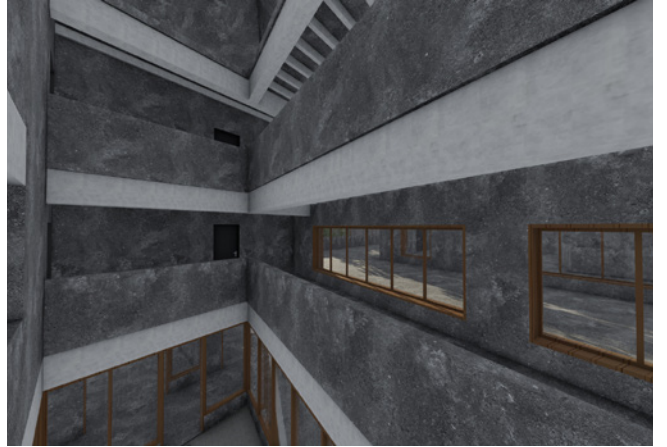
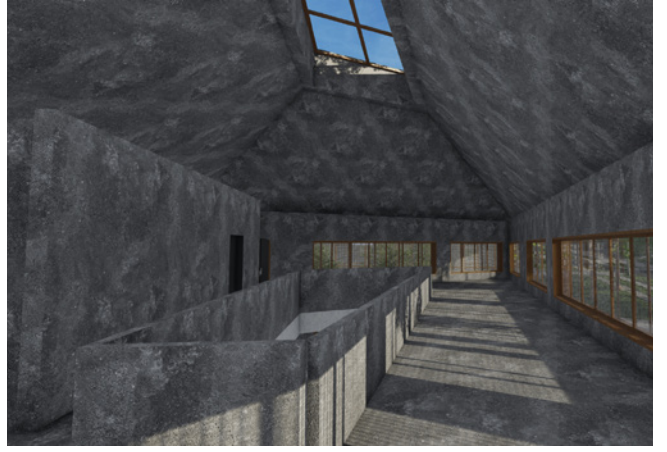




















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<https://www.kcmt.cz/>  
<https://www.archdaily.com/791852/plukk-designs-town-hall-and-community-center-from-sloping-site-in-czech-republic>

## Research about typology and normatives

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