

Ryterna modul
Architectural Challenge
year 2015
PROPOSAL

SOCIAL HOUSING COMPLEX NERIS



PROJECT INFO

8249737275

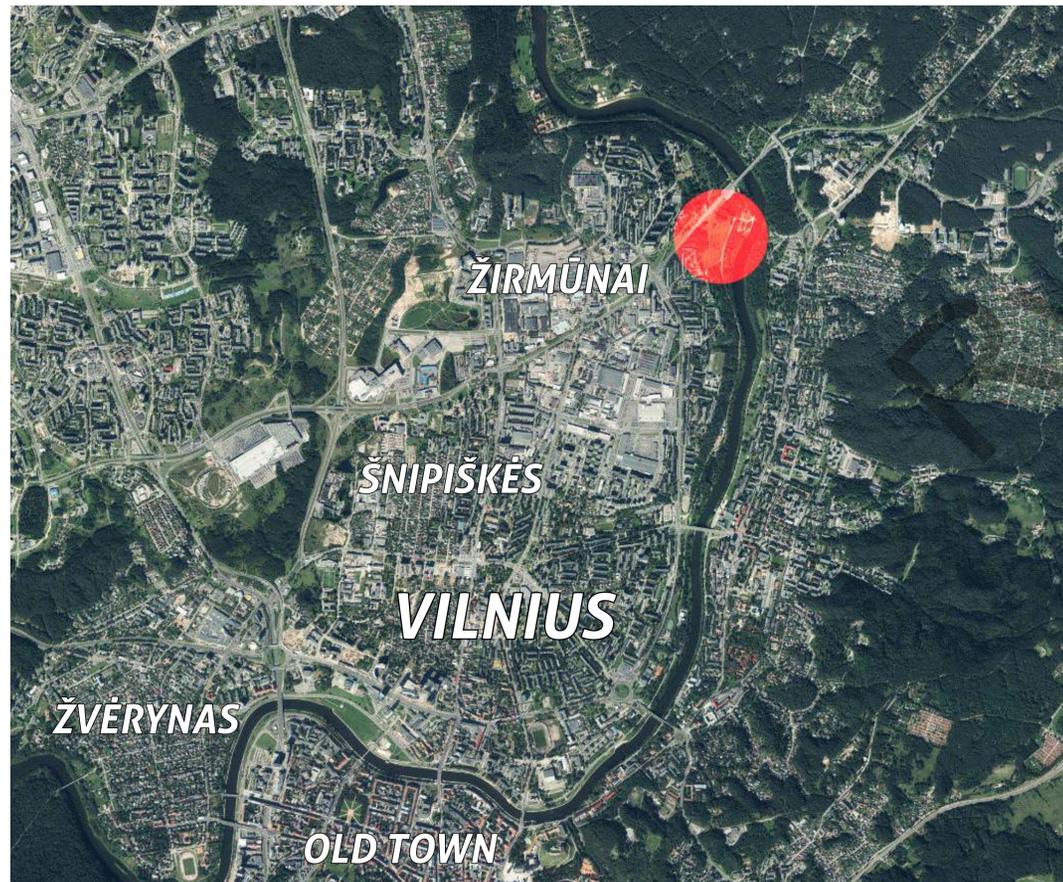
Location: Lithuania, Vilnius (capital).

Area chosen for the design proposal is in the north-east part of the Vilnius city, close to the river Neris. The land chosen for the housing complex is in government ownership, so that the proposal would not create a property ownership conflict.

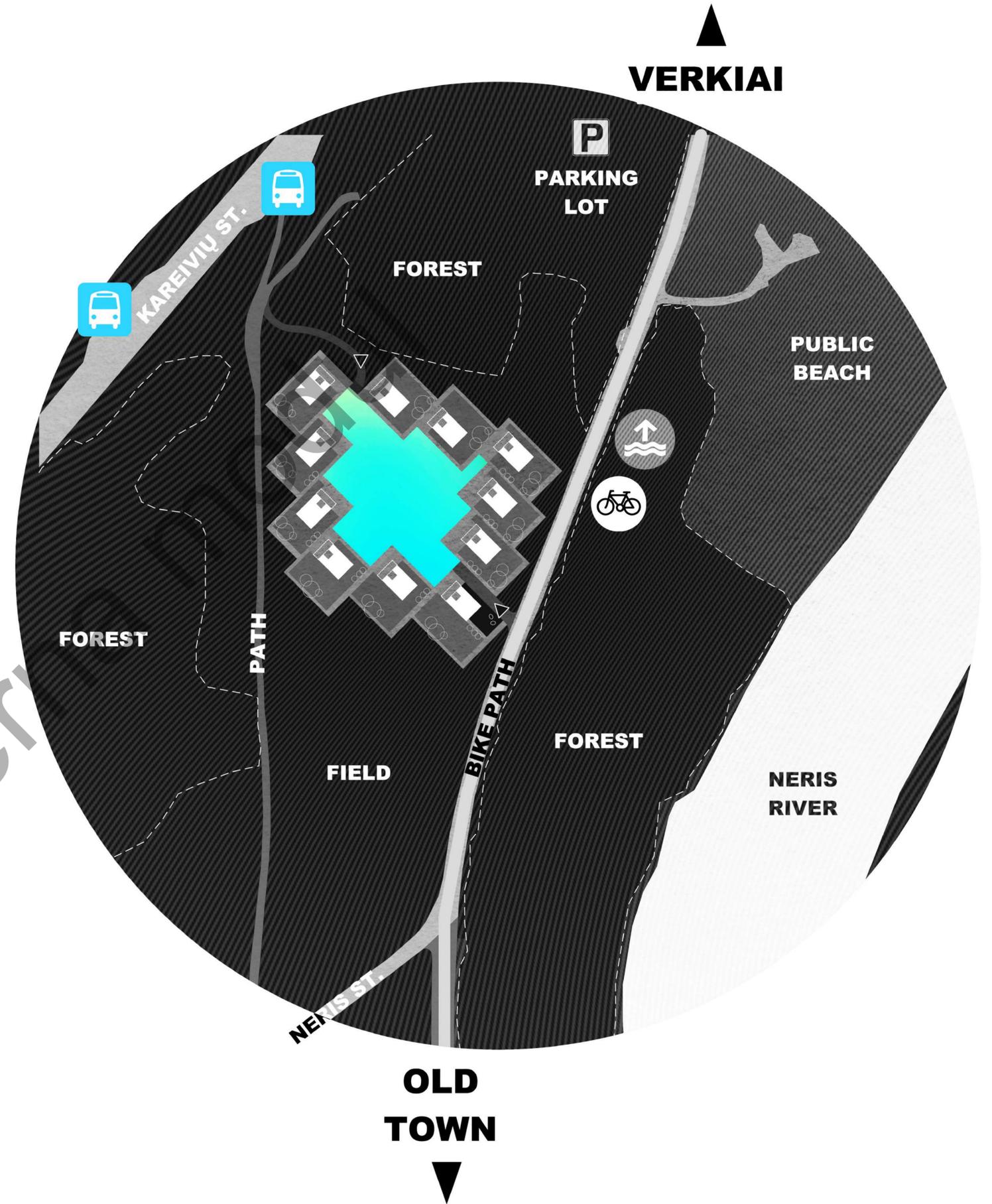
BUILDING CLASSIFICATION

This project is designed according to Lithuanian building regulations. All buildings in this complex are considered as **social housing buildings** ("gyvenamosios paskirties (įvairių socialinių grupių asmenims) pastatai") instead of apartment buildings (according to "STR 1.01.09:2003 STATINIŲ KLASIFIKAVIMAS PAGAL JŲ NAUDOJIMO PASKIRTĮ" 7.4 paragraph).

Since the minimum apartment living space requirements are only described for apartment buildings (according to "STR 2.02.01:2004 GYVENAMIEJI PASTATAI" 14. paragraph), it is possible to create a much more **compact and efficient** living units using social housing category. This way the footprint of the building is reduced, construction and joint fixing costs are reduced. This is because social housing buildings like dormitories or shelters, instead of having apartments, have rooms. Which means that minimum apartment living space requirements are not applied to **social housing category**.



PROJECT LOCATION



SITE SCHEME

URBAN STRUCTURE / INFRASTRUCTURE

8 2 4 9 7 3 7 2 7 5

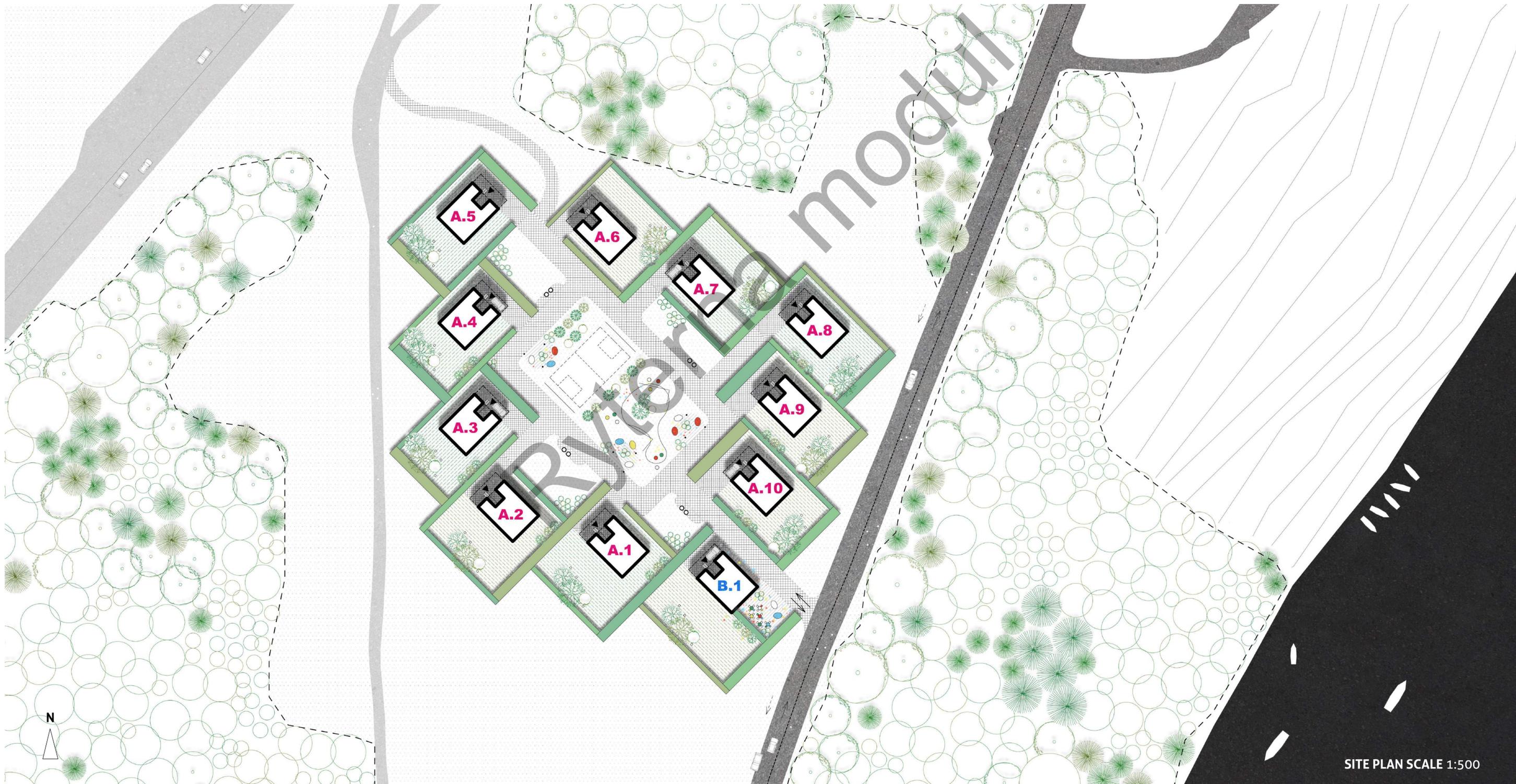
Social housing complex consists of 11 buildings, that house 52 families. According to the competition assignment, there are a total of **10** two person families, **30** four person families, and **12** five person families. Families are distributed in two types of buildings:

10 x A TYPE buildings are completely identical, and house 5 families each (1 x two person family, 3 x four person families and 1 x five person family).

1 x B TYPE building houses 2 x five person families and offers commonly used functions for the entire complex:

- 1) **Centralised boiler room.** Heating to every building is provided directly from unit B, meaning all other buildings don't need a separate boiler room.
- 2) **Laundry room.**
- 3) **Utility rooms for maintenance equipment.**
- 4) **Service personell rooms (optional).**
- 5) **Caffe or food store (optional).**

Brick pavement Lawn



SITE PLAN SCALE 1:500



SOCIAL HOUSING FACADE OPTION NR.01 - ALUMINUM / STEEL PANELS

PROJECT CONCEPT

8 2 4 9 7 3 7 2 7 5

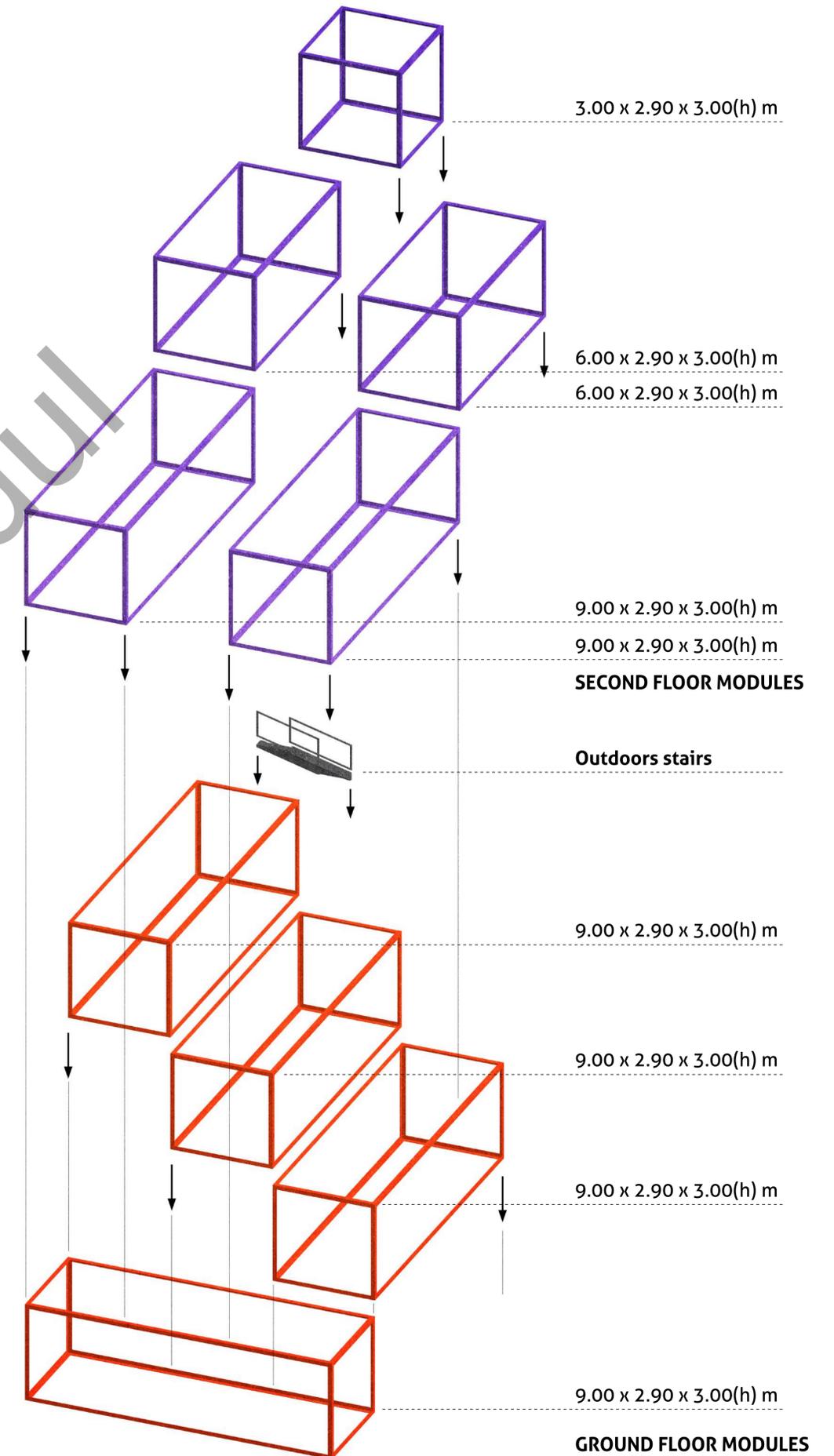
FASTEST WAY FOR THE ASYLUM SEEKERS INTEGRATION INTO FOREIGN COUNTRIES SOCIETY IS MADE THROUGH OFFERING OF AN EQUAL LIVING SPACE, TO THAT OF THE NATIVE RESIDENTS.

Houses in "Neris social housing complex" are very compact, but they offers every function needed for a human person to instantly feel at home. Each building is fully equiped with kitchen and sanitary units. Every resident can spend time in private yard, or a terrace on the second floor. There is a covered space in the northern part of the building for bycicle parking or eaven car sharing if needed. Doors in living rooms can be opened directly into the private courtyards.

Such structure encourages **socialising** and **inclusion** between families by providing ability to spend time outdoors during the nice weather. And eaven during the winter, cosy interior spaces are always visually connected with landscape and lives of other people.



STRUCTURE OF THE BUILDING

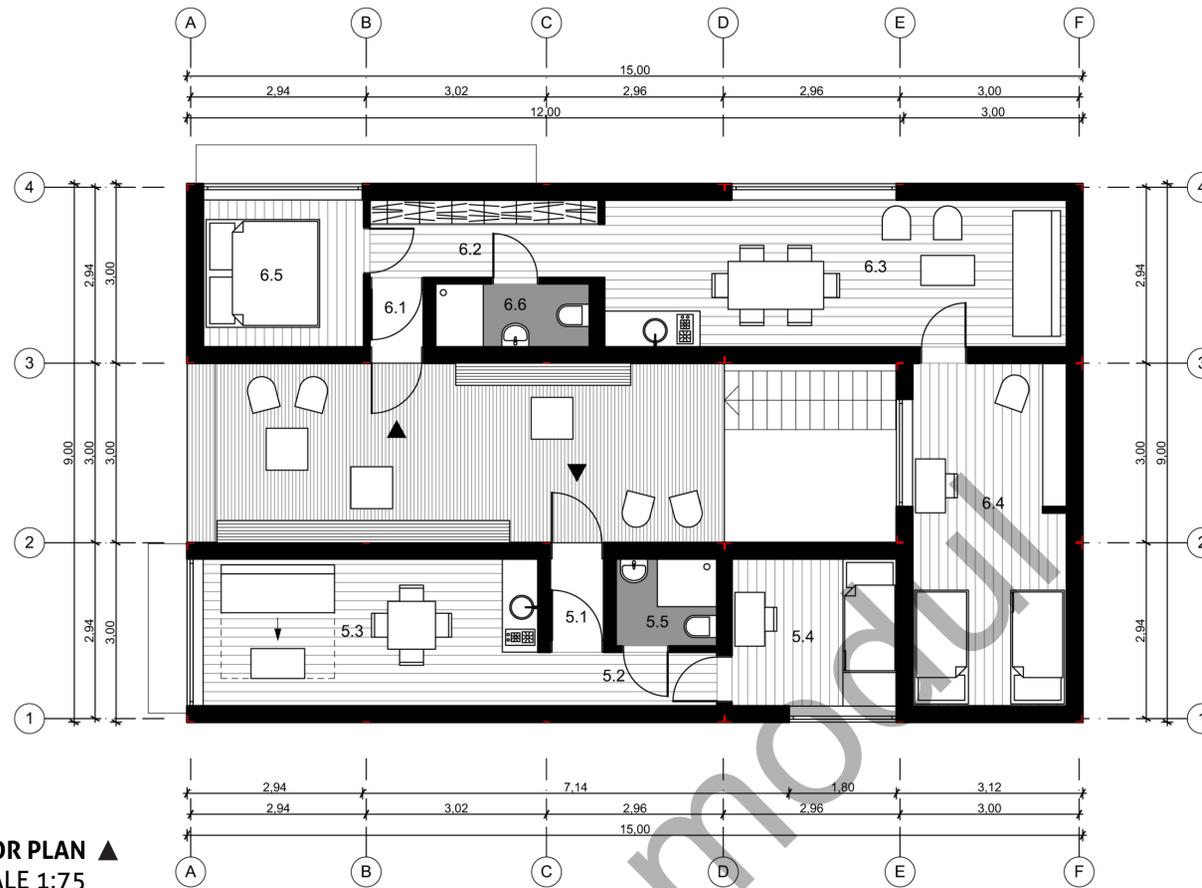


PLAN LAYOUTS

8 2 4 9 7 3 7 2 7 5

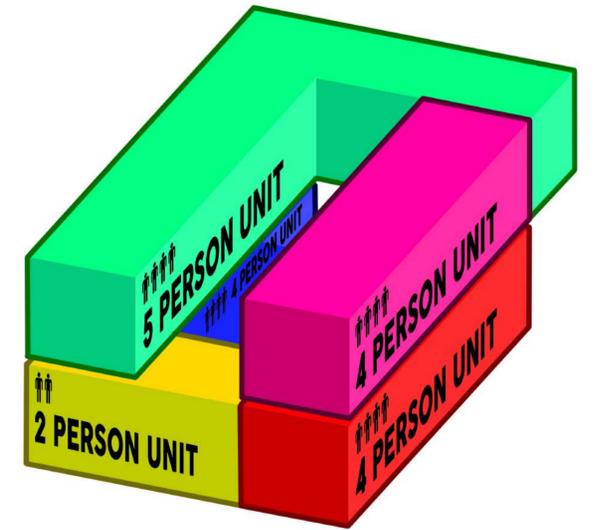
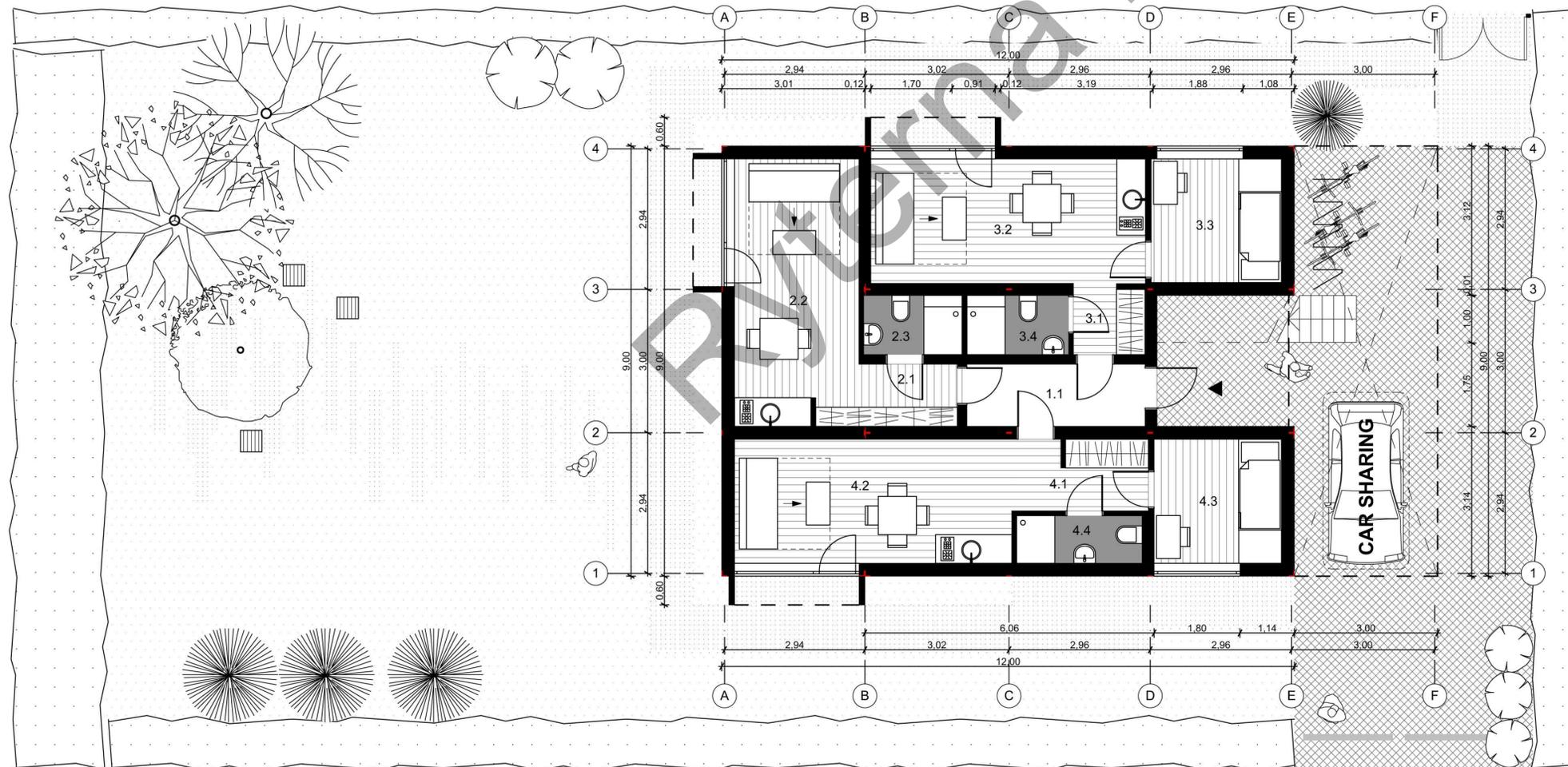
Ground floor contains two housing units for 4 person families, and one unit for 2 person family. Second floor contains one housing unit for 4 person family and one unit for 5 person family.

Mobility for asylum seekers in a city is a major factor. To provide it an optional parking space is designed next to the main entrance to the housing units, that can be used for car sharing service. Next to it a bike rack for five bikes. Both parking spot and bike rack are covered by the cantilever part of the building to protect machinery from rain and snow.



GROUND FLOOR PLAN ▼
SCALE 1:75

SECOND FLOOR PLAN ▲
SCALE 1:75



FUNCTION DIAGRAM

PROGRAM:

Common spaces		
Room	Room name	Area
1.1	Tambour	4,90
		4,90 m²
2 PERSON UNIT		
Room	Room name	Area
2.1	Hallway	2,70
2.2	Living room with kitchen and dining area	16,50
2.3	Sanitary unit	2,60
		21,80 m²
4 PERSON UNIT		
Room	Room name	Area
3.1	Hallway	2,30
3.2	Living room with kitchen and dining area	15,50
3.3	2 person bedroom	7,10
3.4	Sanitary unit	2,70
		27,60 m²
4 PERSON UNIT		
Room	Room name	Area
4.1	Hallway	3,20
4.2	Living room with kitchen and dining area	15,40
4.3	2 person bedroom	7,00
4.4	Sanitary unit	2,60
		28,20 m²
4 PERSON UNIT		
Room	Room name	Area
5.1	Tambour	1,30
5.2	Hallway	2,70
5.3	Living room with kitchen and dining area	14,30
5.4	2 person bedroom	6,80
5.5	Sanitary unit	2,50
		27,60 m²
5 PERSON UNIT		
Room	Room name	Area
6.1	Tambour	1,00
6.2	Hallway	5,20
6.3	Living room with kitchen and dining area	19,50
6.4	3 person bedroom	14,80
6.5	2 person bedroom	6,70
6.6	Sanitary unit	2,80
		50,00 m²

Total housing unit area: **160,10 m²**



SOCIAL HOUSING FACADE OPTION NR.02 - "SANDWICH" PANELS

HOUSING UNIT LAYOUTS

8249737275

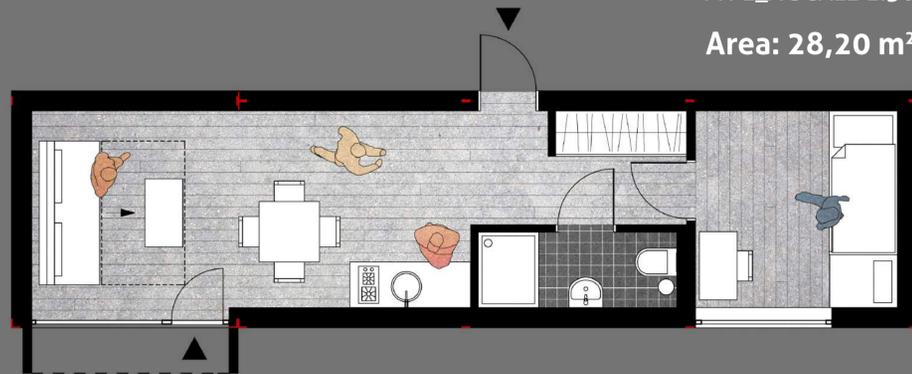
- 2 person family unit: wardrobe (40cm), sofa-bed, coffee table, dining table with 2 chairs, kitchen unit with mini freezer, cooker, and sink.

- 4 person family unit: wardrobe (60cm) sofa-bed, bunk bed, coffee table, dining table with 4 chairs, desk with 1 chair, kitchen unit with mini freezer, cooker, and sink.

- 5 person family unit: wardrobe (60cm), cupboard, twin bed, bunk bed, bed, sofa, coffee table, dining table with 6 chairs, desk with 1 chair, kitchen unit with mini freezer, cooker, and sink.

4 PERSON FAMILY UNIT
TYPE_A SCALE 1:50

Area: 28,20 m²



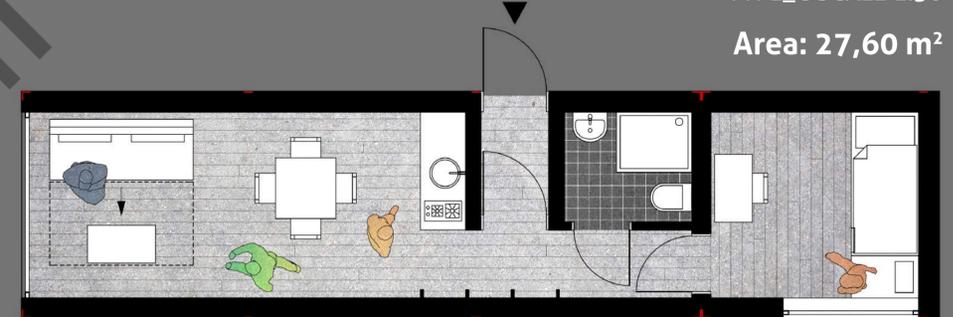
4 PERSON FAMILY UNIT
TYPE_B SCALE 1:50

Area: 27,60 m²



4 PERSON FAMILY UNIT
TYPE_C SCALE 1:50

Area: 27,60 m²



5 PERSON FAMILY UNIT SCALE 1:50

Area: 50,00 m²



2 PERSON FAMILY UNIT SCALE 1:50

Area: 21,80 m²



**INTERIOR VIEW OF 4 PEOPLE HOUSING UNIT**

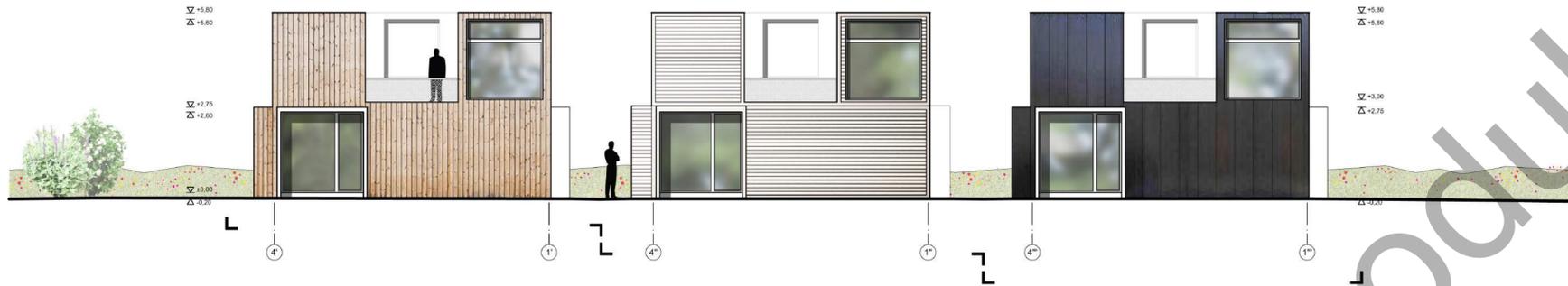
Interior walls between rooms are made out of "sandwich" panels suitable for interior usage, with E130 fire resistance properties. Displayed here is a

cosinus panel profile, other profiles (including flat surface) are available. Floor is furnished with PNC parquet. Includes SOFA-BED.

FACADE OPTIONS

8249737275

- Facade option nr.01 - Aluminum / steel composite panels (ventiated facade, mounted on carcass);
- Facade option nr.02 - "Sandwich" panels (composite panels with outer layer of tin, or plastic and metal bonds);
- Facade option nr.03 - Thermal wood boards (ventilated facade, mounted on carcass);



FACADES between axis 4-1, scale 1:100



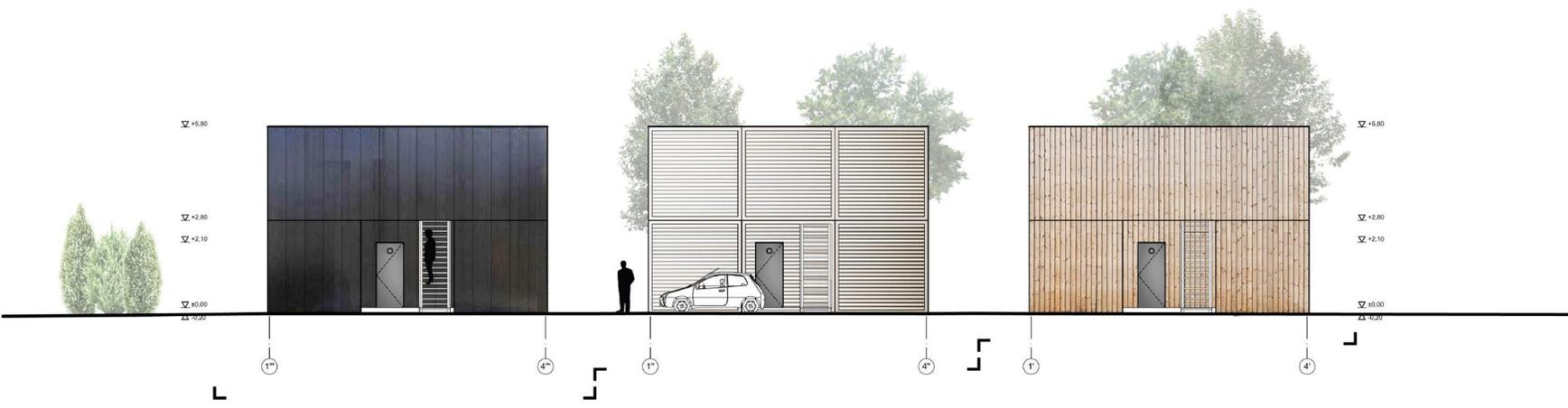
FACADES between axis A-E, scale 1:100



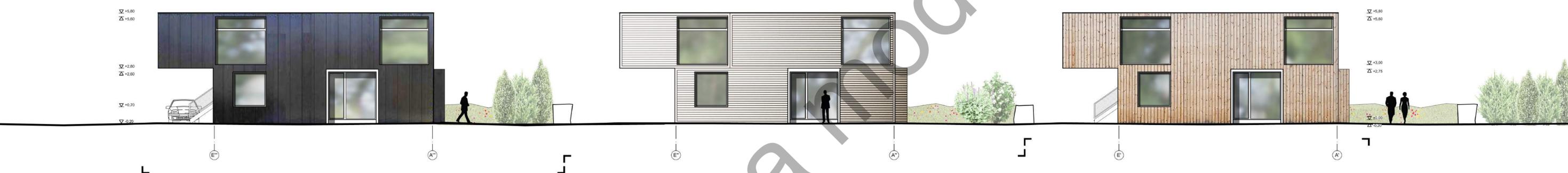
URBAN LANDSCAPE
Complex view from
Neris street

BUILDING EN-
TRANCE
Bicycle parking and
stairs to second





FACADES between axis 1-4, scale 1:100



FACADES between axis E-A, scale 1:100



◀ SOCIAL HOUSING FACADE OPTION NR.03 - THERMAL WOOD PLANKS

SOCIAL HOUSING COMPLEX NERIS

SECOND FLOOR TERRACE

*A space where families can meet, socialize,
exchange information and stories of their countries,
travel and experience*