

**Architectural Project**  
**Crafts Development Center**  
**in Zugdidi**





Table of Content		<div>Explanatory Note</div> <div>General Information</div> <div>The construction site (cadastral code of the land plot 43.31.69.443) is located in the town of Zugdidi, according to the norms - "Construction Climatology" the climatic characteristics of the construction site are: - The average temperature of the year: + 13.8 ° C - Absolute maximum temperature: + 40 ° C - Absolute minimum temperature: - 19 ° C - Annual precipitation: 1723 mm - Weight of snow cover: 0.5 kPa - Standard depth of seasonal ground freezing - 0 m - Standard wind pressure: 0.3 kPa - The prevailing wind direction: East - According to the map of seismic zones, Zugdidi belongs to a seismic zone of magnitude 8. From the engineering geological point of view, the area allocated for construction is in a satisfactory condition, no physical-geological events (landslides, collapses, etc.) are observed.</div> <div>Planning</div> <div>Current status - The construction site is a rectangular plot of land bordered on the north and east by a public area, namely streets, and adjacent plots of land on all other sides. There are no permanent structures in the area. The project envisages the placement of a community development center on the land plot with the main facade to the north, on the street side, the main entrances will be arranged from here. Yard landscaping and fencing are also provided. The planning solution of the building envisages the arrangement of a community development center in it, as well as commercial spaces.</div> <div>The Building</div> <div>The building presented in the project is a two-storey stone building, the floor level of which is raised by an average of 0.5 meters from the ground (including the walkway). The ground floor mark 0.00 corresponds to the absolute mark of 105.45 The floor height of the building is 3.3 meters. The hearting of the external walls is made of a reinforced masonry of small wall pumice blocks with a thickness of 30 cm and ceramic bricks. The bearing structure of the building is a frame structure consisting of a complex reinforced concrete frame, reinforced concrete columns, monolithic reinforced concrete slabs, and reinforced concrete roofing slabs, reinforced concrete columns on the exterior walls can be concreted in parallel with the masonry works. The partitions are made of reinforced small wall pumice blocks of 10 and 15 cm thickness. Floors in bathrooms are finished with tile, and in rooms with wooden planks (deck). Floor warming is completed with XPS tiles, while ceiling warming is done with wool glass. The suspended ceilings of the toilets and the kitchen are made of plastic, while in the rooms it is made of plasterboard. The bearing structure of the roof is made of wood, while the roof is made of painted metal tiles. The windows are made of plastic profiles with double glazing. Entrance doors are made of steel and iso-aluminum, metal in the WC and bathroom units, and wood in the rooms (so-called MDF). External stairs and platforms are paved with basalt tiles. Concrete walkways are arranged around the building. The building is equipped with electricity, sewerage, and water supply, as well as internal heating networks, which will be connected to the main external district networks. According to the decree of the Government of Georgia, taking into account the characteristics of the building classes, the building belongs to the 3rd class.</div> <div>Technical specifications of the area: Area of the territory - 1756.0 m2 Development area - 445.1 m2 Development density - 795.8 m2 Planting area - 725.0 m2 Coefficient K1 - 0.3 Coefficient K2 - 0.5 Coefficient K3 - 0.5</div> <div>Technical specifications of the building: The number of floors in the building - 2 floors The area of the building - 4984.0 m3 Among them: Overground - 3871.0 m3 Substructure - 1112.0 m3 Total area -706.0 m2</div>	
		<div><div><div><div><div><div></div><div>DANISH REFUGEE COUNCIL</div></div></div><div></div></div></div><div>Crafts Development Center Center 2, Tabukashvili Street, Zugdidi</div></div> <div>k-1Sketch</div> <div><div>Project address:</div><div>Georgia, Zugdidi</div></div> <div><div>Stage:</div><div>Architectural project</div></div> <div>Explanatory note</div> <div><div><div><div><div><div></div><div>DANISH REFUGEE COUNCIL</div></div></div><div></div></div><div>ბ. ჯანთარია B. Qantaria</div><div><div><div><div></div><div>ა. გერგელავა A. Gergedava</div></div></div><div>ა. გერგელავა A. Gergedava</div></div><div>FormatA - 2</div><div><div>Page</div><div>Pages</div></div><div><div>2</div><div></div></div></div></div>	



Rendering



Crafts  
Development  
Center  
2,  
Tabukashvili  
Street, Zugdidi

Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

Rendering

ბ. ქანთარია  
B. Qantaria

ა. გერგედავა  
A. Gergedava

ბ. გ. გ. გ.

Format A - 2

Page  
3

Pages





"ფიზიკური პირის მიერ 2 წლამდე ვადით საკუთრებაში არსებული მატერიალური აქტივის რეალიზაციისას, აგრეთვე საგადასახადო წლის განმავლობაში 1000 ლარის ან მეტი ღირებულების ქონების საჩუქრად მიღებისას სამეზობლო გადასახადი გადასახად ექვემდებარება საანგარიშო წლის მომღვეწო წლის 1 აპრილამდე, რის შესახებაც აღნიშნული ფიზიკური პირი იმავე ვადაში წარუდგენს დეკლარაციას საგადასახადო ორგანოს. აღნიშნული ვადებულების შეუსრულებლობა წარმოადგენს საგადასახადო სამართალდარღვევას, რაც იწვევს პასუხისმგებლობას საქართველოს საგადასახადო კოდექსის XVIII თავის მისდევით."

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- თქვენთვის საინტერესო ნებისმიერ საკითხთან დაკავშირებით მოგვწერეთ ელ-ფოსტით: [info@napr.gov.ge](mailto:info@napr.gov.ge)



მისამართი (კუთხედი ქონების) საკადასტრო კოდი

N 43.31.69.443

### ამონაწერი საჯარო რეესტრიდან

განცხადების რეგისტრაცია  
N 882020867401 - 13/11/2020 14:48:14

მომზადების თარიღი  
19/11/2020 10:23:22

### საკუთრების განყოფილება

ზონა ზეგლდი	სექტორი ქ. ზეგლდი	კვარტალი	ნაკვეთი	ნაკვეთის საკუთრების ტიპი:საკუთრება ნაკვეთის დანიშნულება: არასასაოფლო სამეურნეო დაზუსტებული ფართობი: 1756.00 კვ.მ. ნაკვეთის წინა ნომერი:43.31.69.416;
43	31	69	443	
მისამართი: ზეგლდის მუნიციპალიტეტი, ქალაქი ზეგლდი, რევაზ თაბუკაშვილის შესახვევი N2გ				

### მესაკუთრის განყოფილება

განცხადების რეგისტრაცია : ნომერი 882019638676 , თარიღი 06/08/2019 14:31:43  
უფლების რეგისტრაცია: თარიღი 08/08/2019

უფლების დამადასტურებელი დოკუმენტი:

- ბრძანება N1/1-1709 , დამოწმების თარიღი:26/06/2019 ,სსიპ სახელმწიფო ქონების ეროვნული სააგენტო

მესაკუთრები:

სსიპ ზეგლდის მუნიციპალიტეტი, ID ნომერი:220418956

მესაკუთრე:

სსიპ ზეგლდის მუნიციპალიტეტი

აღწერა:

### იპოთეკა

საგადასახადო გირავნობა:

რეგისტრირებული არ არის

### შეზღუდული სარგებლობა

განცხადების რეგისტრაცია ნომერი 882020867401 თარიღი 13/11/2020 14:48:14	აღნაგობის უფლების მქონე პირი უცხოური ა(ა)იპ "ლტოლელითა დანიის საბჭოს საქართველოს წარმომადგენლობა"; საგანა: 1756 კვ.მ. მიწის ნაკვეთი; ვადა:15 წელი;
უფლების რეგისტრაცია: თარიღი 19/11/2020	უძრავი ქონების აღნაგობის (პირობით) ხელშეკრულება N1 , დამოწმების თარიღი13/11/2020, საქართველოს იუსტიციის სამინისტროს საჯარო რეესტრის ეროვნული სააგენტო

საჯარო რეესტრის ეროვნული სააგენტო. <http://public.reestri.gov.ge>

გვერდი: 1(2)

საჯარო რეესტრის ეროვნული სააგენტო. <http://public.reestri.gov.ge>

გვერდი: 2(2)





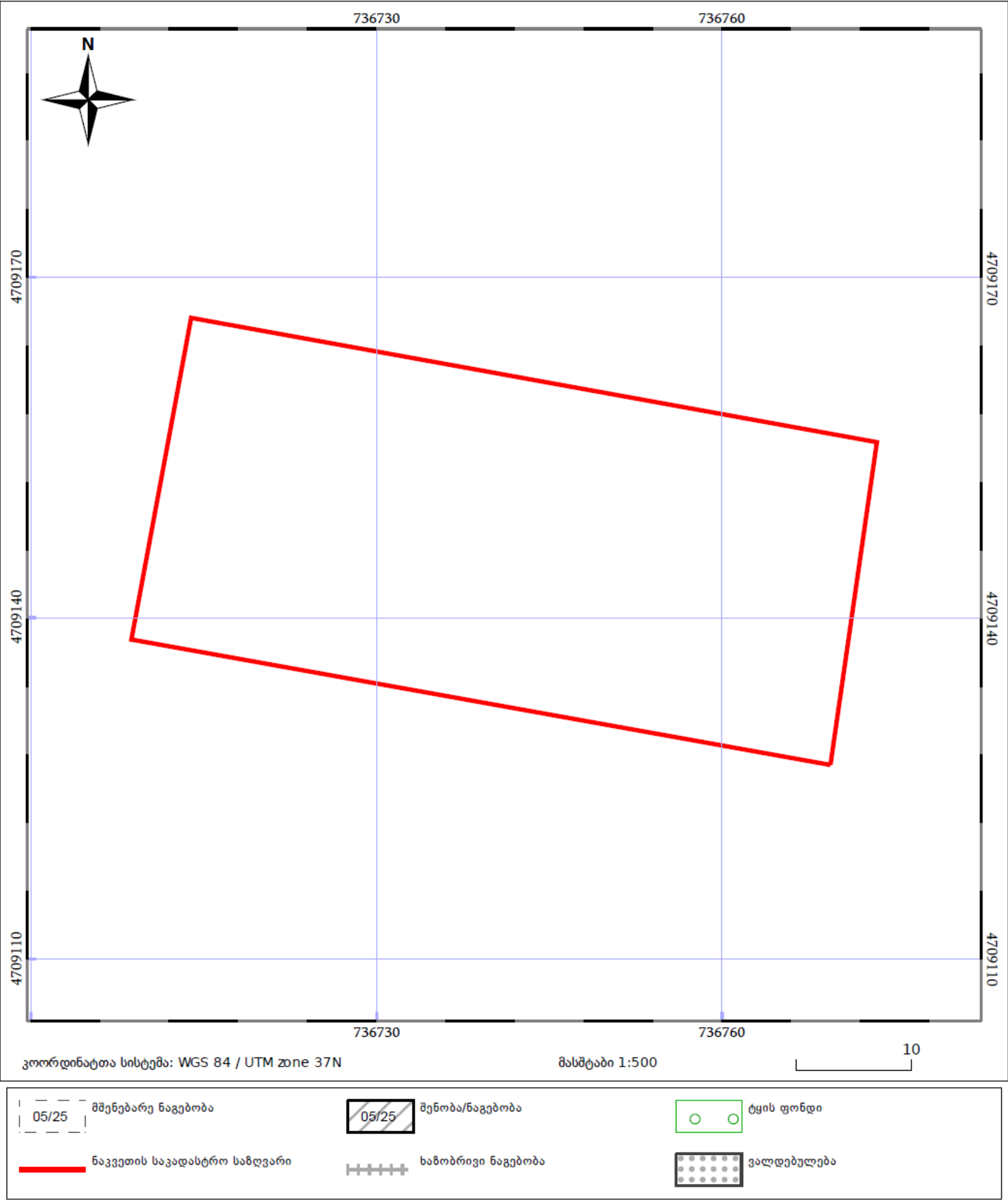


საკადასტრო გეგმა

საჯარო რეესტრის ეროვნული  
სააგენტო

საკადასტრო კოდი: 43.31.69.443  
განცხადების ნომერი: 882020234505  
მომზადების თარიღი: 17/05/2020

ნაკვეთის დანიშნულება: არასასოფლო საშენობლო  
ფართობი: 1756 კვ.მ (WGS 84 / UTM zone 38N)  
1756 კვ.მ (WGS 84 / UTM zone 37N)



საჯარო რეესტრის ეროვნული სააგენტო: ქალაქი თბილისი, სანაპიროს ქუჩა, N2; ტელ: (995 32) 2 25 15 28;

<http://napr.gov.ge>



Crafts  
Development  
Center  
2,  
Tabukashvili  
Street, Zugdidi

Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

Land cadastre

ბ. ჯანთარია  
B. Qantaria

ა. გერგელავა  
A. Gergedava

ფორმატი  
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Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

Photos of the  
Existing Site

ბ. ქანთარია  
B. Qantaria

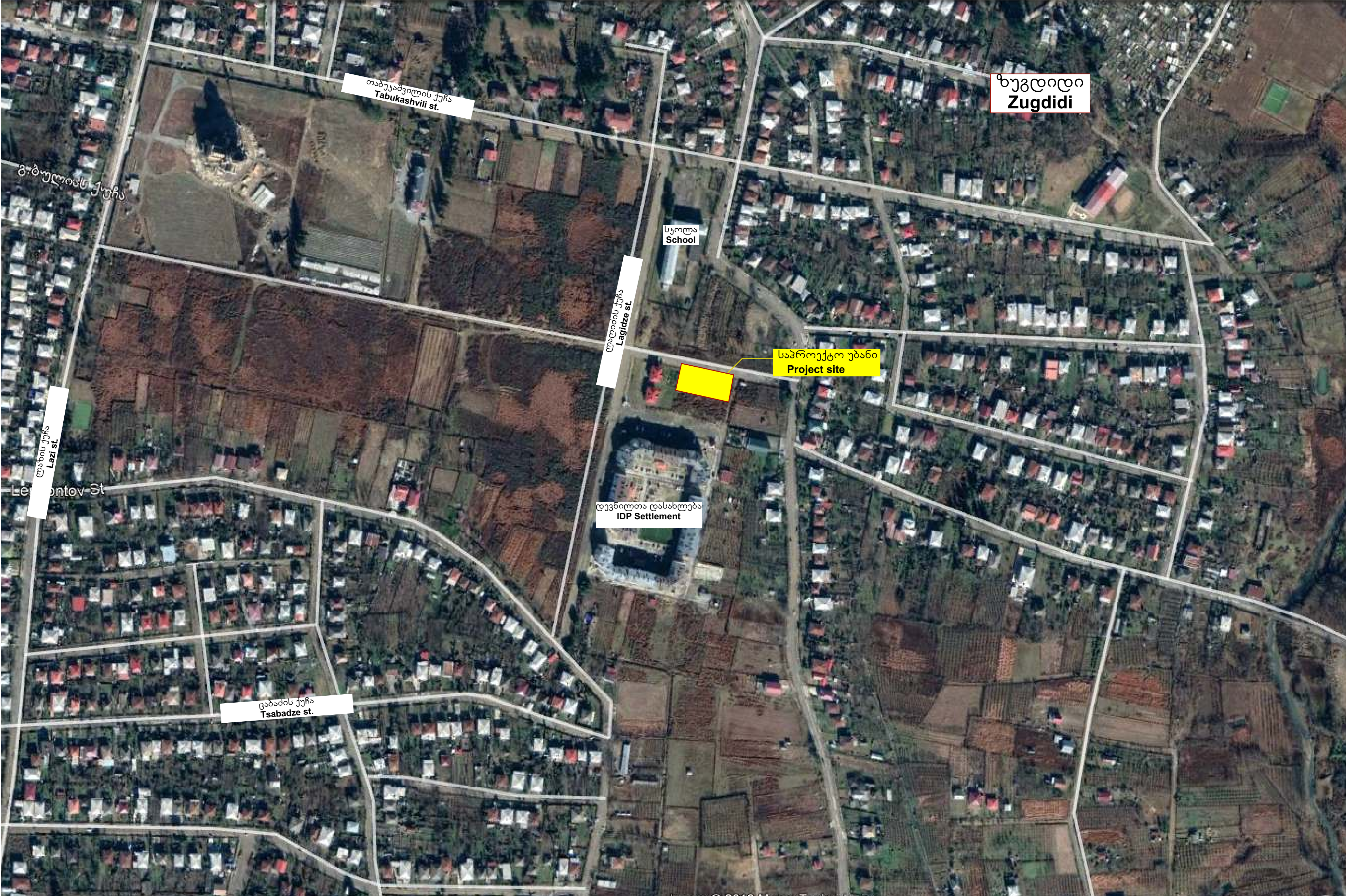
ა. გერგედავა  
A. Gergedava

Format A - 2

Page	Pages
6	







Crafts  
Development  
Center  
2,  
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Project address:  
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Stage:  
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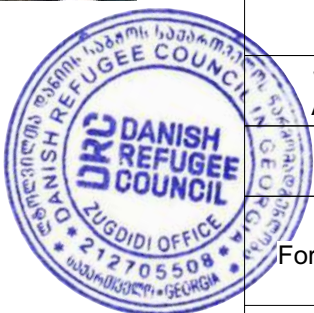
Layout plan

ბ. ქანთარია  
B. Qantaria

ა. გერგედავა  
A. Gergedava

Format A - 2

Page 7  
Pages





Crafts  
Development  
Center  
2,  
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Street, Zugdidi

Project address:  
  
Georgia,  
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Stage:  
Architectural project

Analysis of  
Compliance with  
Building Safety  
Regulations

ბ. ქანთარია  
B. Qantaria





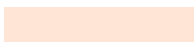
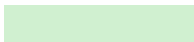


ა. გერგელავა  
A. Gergedava

Format A - 2

Page  
8

Pages

Conventional Signs

	Cadastral Border
	Wall fire resistance (one hour)
	Wall fire resistance (150 minutes)
	Trade Group ს3
	Business Group
	Storage unit group სV-2
	Concrete block masonry
	Hand fire extinguisher

Analysis of Compliance with Building  
Safety Regulations

Rules Applied - Building Safety Rules
List the occupations of the building
Trading Group ს3
Business Group სმ
Storage Unit Group სV-2

Structure Type		
Determine the type of structure for the new building		V-B
Height restrictions		
Occupations	Permissible height	Suggested height
1. Trading Group ს3	1 Floor	1 Floor
2. Business Group სმ	2 Floor	2 Floor
3. Storage Unit Group სV-2	2 Floor	1 Floor
თიბაღ კიბეები	12.2	9.86
Number of floors above ground		2 Floor

Floor Area restrictions			
Occupations	Permissible area	suggested area	
1. Trading Group ს3	840	75.2 მ²	
2. Business Group სმ	840	141.45 m²	199.16 m²
3. სStorage Unit Group სV-2	1250	74.62 m²	
Total floor area	827.01 m²		
Number of floors	Above the ground level 2		
Total area of the buildig	905.21 m²		

Requirements for external wall apertures					
External wall	Fire resistance distance	Wall aperture area			
		Permissible		Suggested	
		protected	not protected	Prrotectd	not protected
North	11.1 m.	not limited	not limited		28 %
East	6.01 m.	not limited	45 %	-	17 %
South	6.18 m.	not limited	45 %		16 %
West	18.61 m.	not limited	not limited		38 %

Fire protection system requirements		
Is there an automatic spraying system		No
Is there a fire extinguishing system		No
Is there a smoke control system		No
Are hand-held fire extinguishers provided	Yes	
Is there a fire alarm system	Yes	
Evacuation lighting device	Yes	

Number and width of exits for trade group სv						
Floors	Number of exits		Width of exits			
			staircases		other components	
	required.	provided.	required.	provided.	required.	provided
I floor	1	1			0.82	1.50

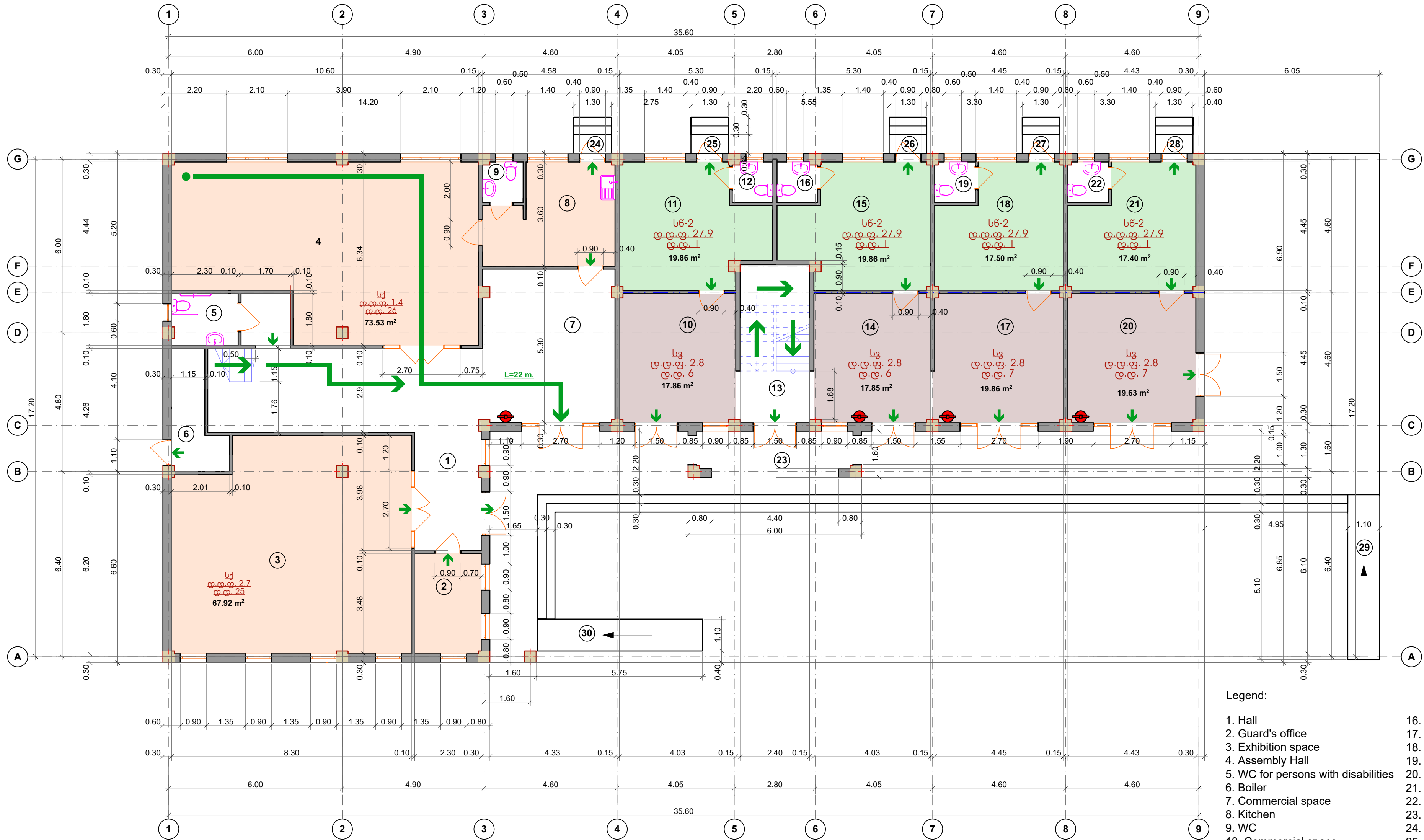
Number and width of exits for business group სq-						
Floors	number of exits		width of exits			
			staircases		other components	
	required.	provided	required.	provided	required.	provided
I floor	1	1			0.82	1.50
II floor	1	1	1.2	1.2	0.82	0.90

Number and width of exits for sorage unit goupi სw-2						
Floors	number of exits		width of exits			
			staircases		other components	
	required.	provided	required.	provided	required.	provided
I floor	1	1			0.82	0.90

Number of fixed devices in the water supply system						
Calculation of the occupancy load.						
fixed device		required			provided	
		I	II		I	II
Toilet bowls		6	6		6	6
Wash basin		6	6		6	6
Bathtube/shower		-	-		-	6
Drinking water fountain		-	-		-	-
Service sink		1	1		1	1





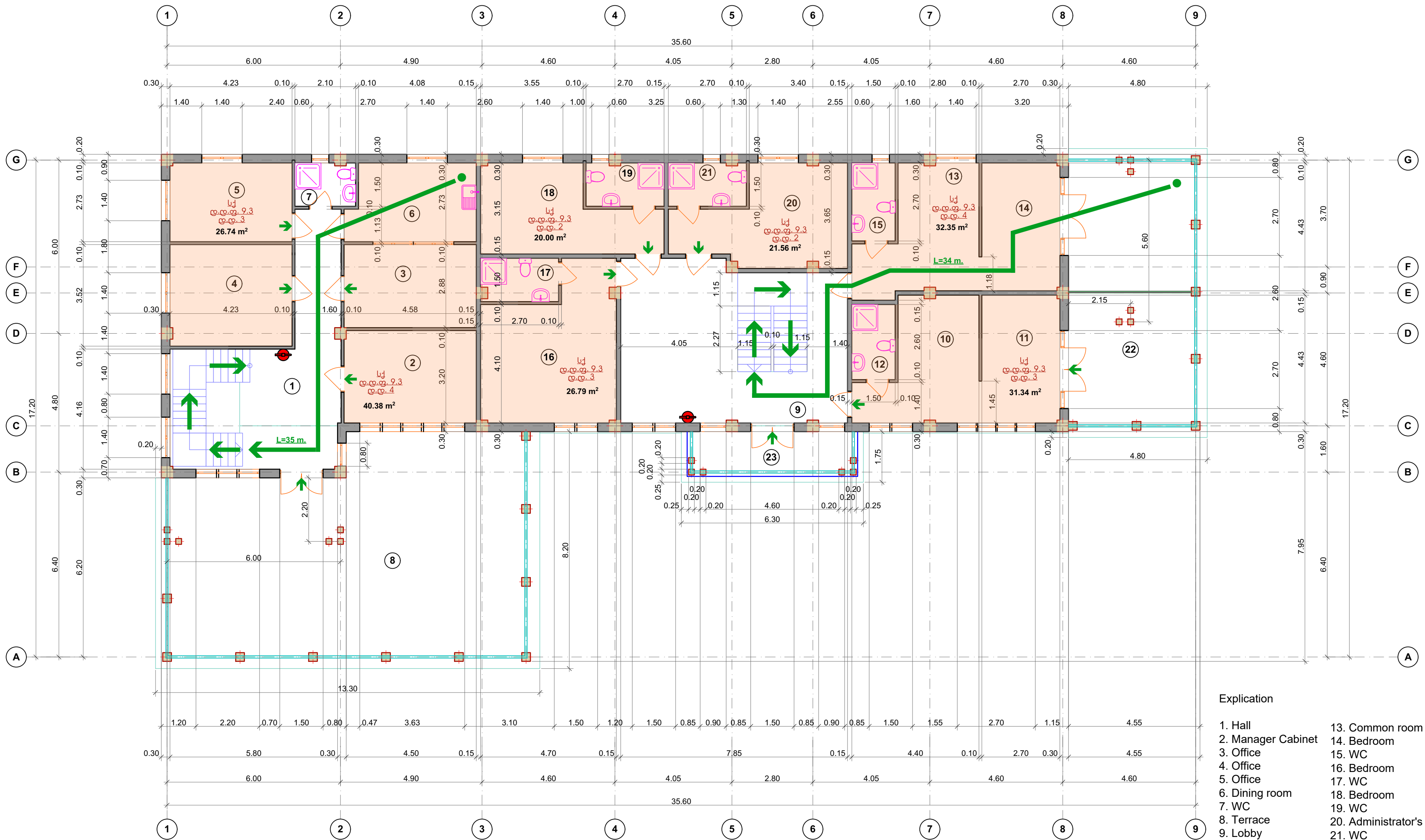


Legend:

- 1. Hall
- 2. Guard's office
- 3. Exhibition space
- 4. Assembly Hall
- 5. WC for persons with disabilities
- 6. Boiler
- 7. Commercial space
- 8. Kitchen
- 9. WC
- 10. Commercial space
- 11. Storage unit
- 12. WC
- 13. Stair enclosure
- 14. Commercial space
- 15. Storage Unit
- 16. WC
- 17. Commercial space
- 18. Storage Unit
- 19. WC
- 20. Commercial space
- 21. Storage Unit
- 22. WC
- 23. Entrance
- 24. Stair platform
- 25. Stair platform
- 26. Stair platform
- 27. Stair platform
- 28. Stair platform
- 29. The ramp
- 30. The ramp







Explication

- |                    |                            |
|--------------------|----------------------------|
| 1. Hall            | 13. Common room            |
| 2. Manager Cabinet | 14. Bedroom                |
| 3. Office          | 15. WC                     |
| 4. Office          | 16. Bedroom                |
| 5. Office          | 17. WC                     |
| 6. Dining room     | 18. Bedroom                |
| 7. WC              | 19. WC                     |
| 8. Terrace         | 20. Administrator's office |
| 9. Lobby           | 21. WC                     |
| 10. Common room    | 22. Terrace                |
| 11. Bedroom        | 23. Balcony                |
| 12. WC             |                            |





Topographic Plan

Crafts  
Development  
Center  
2,  
Tabukashvili  
Street, Zugdidi

Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

Topograp  
hic plan

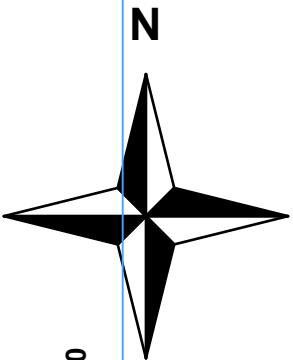
ბ. ქანთარია  
B. Qantaria

ა. გერგედავა  
A. Gergedava

Format A - 2

Page Pages

11



ლაგიდის ქუჩა  
Lagidze st.

736700

736730

736760

4709170

4709140

4709110

Cadastral Border  
(43.31.69.443)

High voltage power line

დევნილთა დასახლება  
IDP Settlement





Crafts  
Development  
Center  
2,  
Tabukashvili  
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Project address:  
Georgia,  
Zugdidi

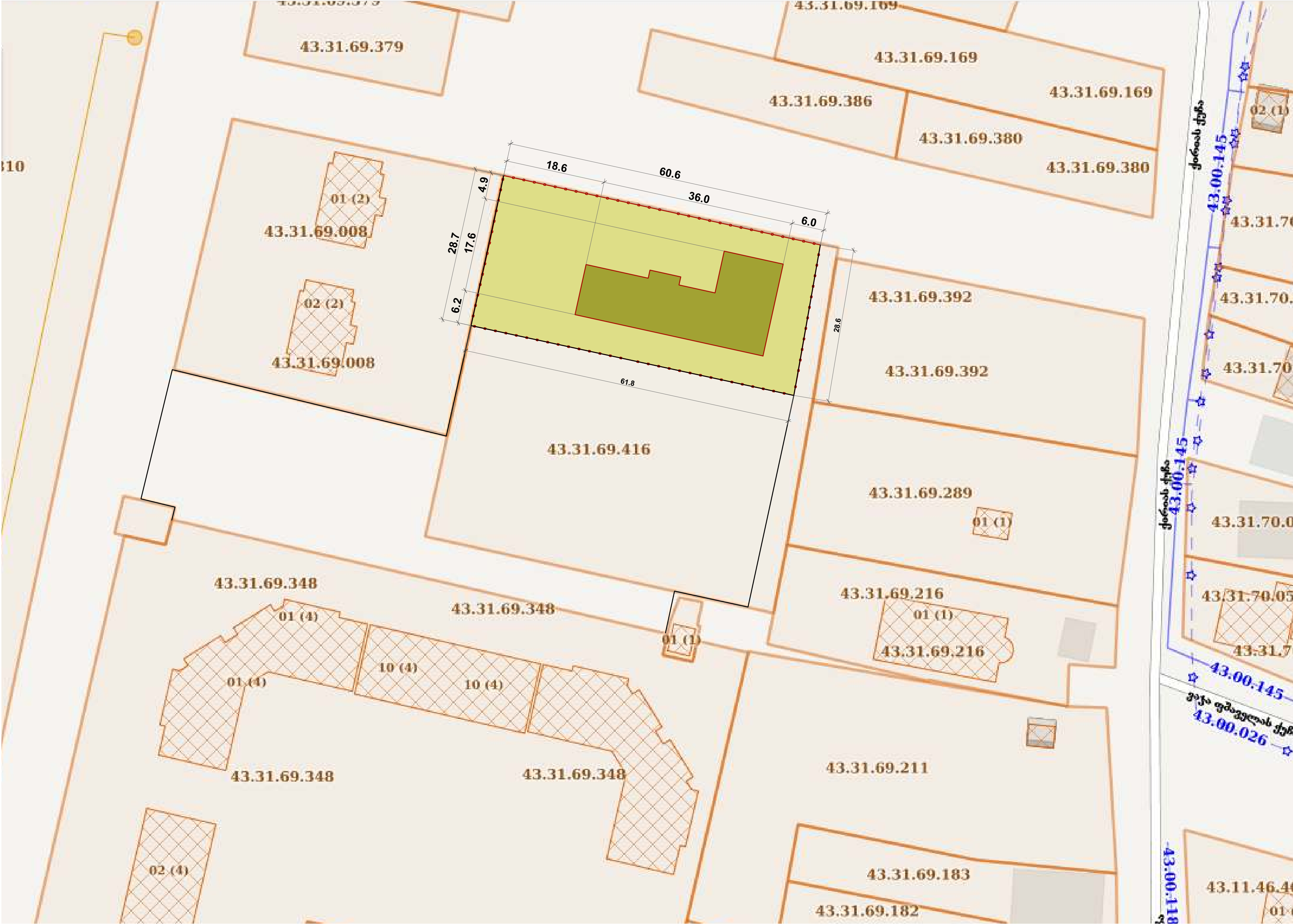
Stage:Architectural  
project

Layout Plan

ბ. ქანთარია  
B. Qantaria

ა. გერგელავა  
A. Gergedava

Format A - 2





Territory Marking

Crafts  
Development  
Center  
2,  
Tabukashvili  
Street, Zugdidi

Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

Territory  
marking

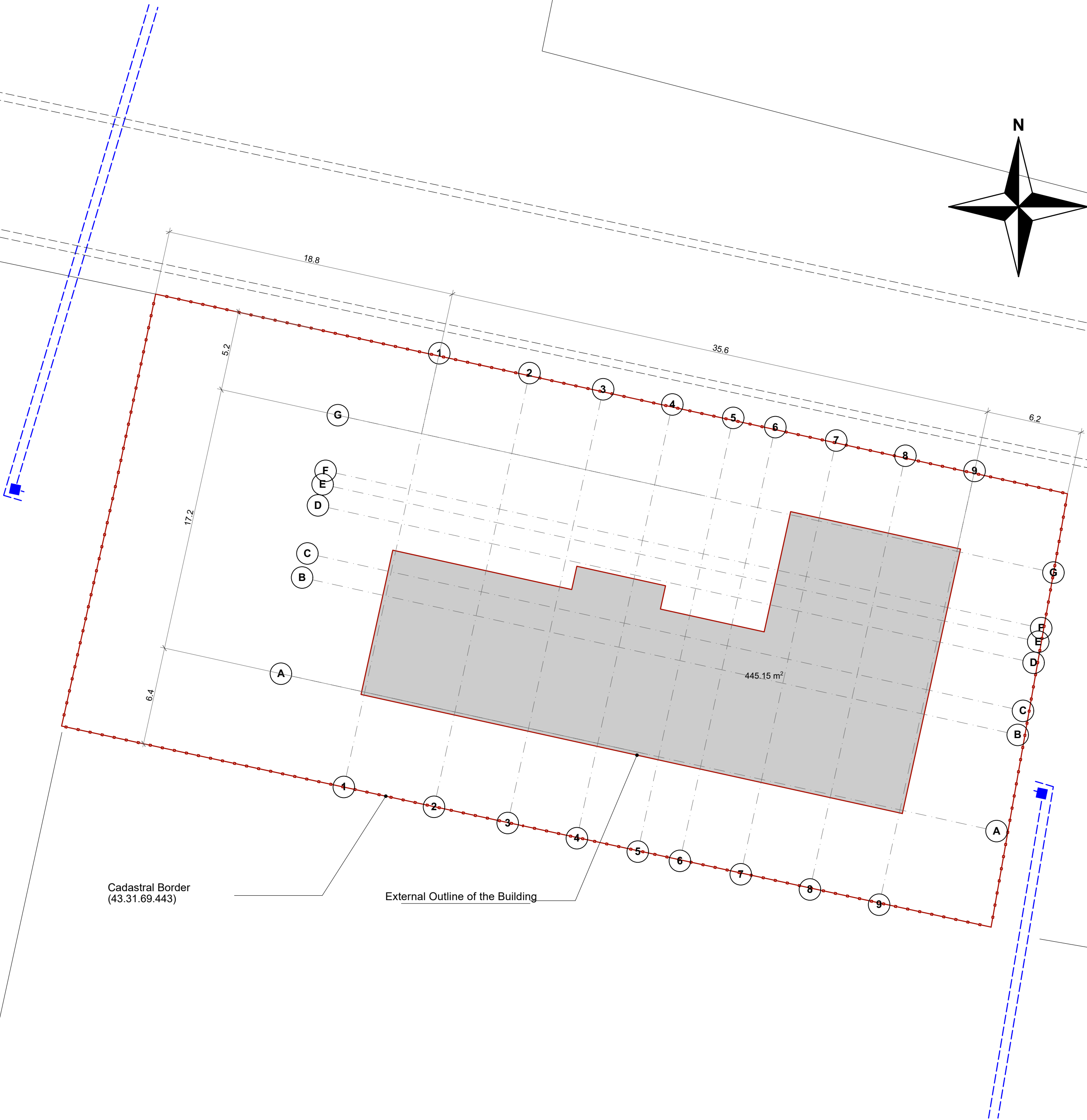
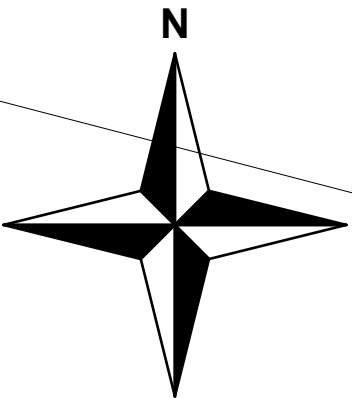
ბ. ქანთარია  
B. Qantaria

ა. გერგელავა  
A. Gergedava

ბ. ქანთარია

Format A - 2

Page	Pages
13	



Cadastral Border  
(43.31.69.443)

External Outline of the Building

445.15 m<sup>2</sup>





Crafts  
Development  
Center  
2,  
Tabukashvili  
Street, Zugdidi

k-1- sketch

Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

General plan

ბ. ქანთარია  
B. Qantaria

ა. გერგელავა  
A. Gergedava

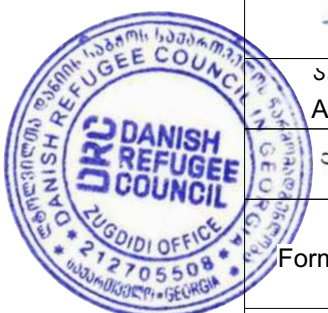
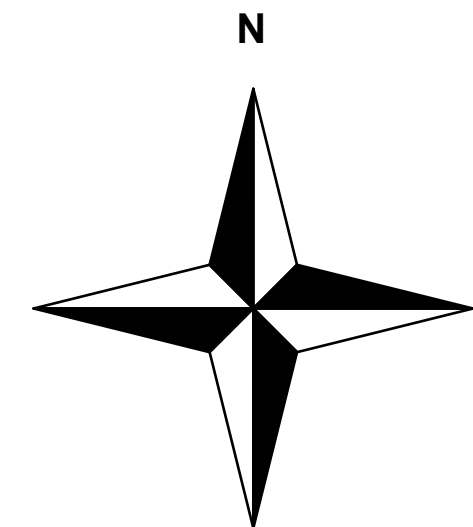
Format A - 2

Page Pages

14





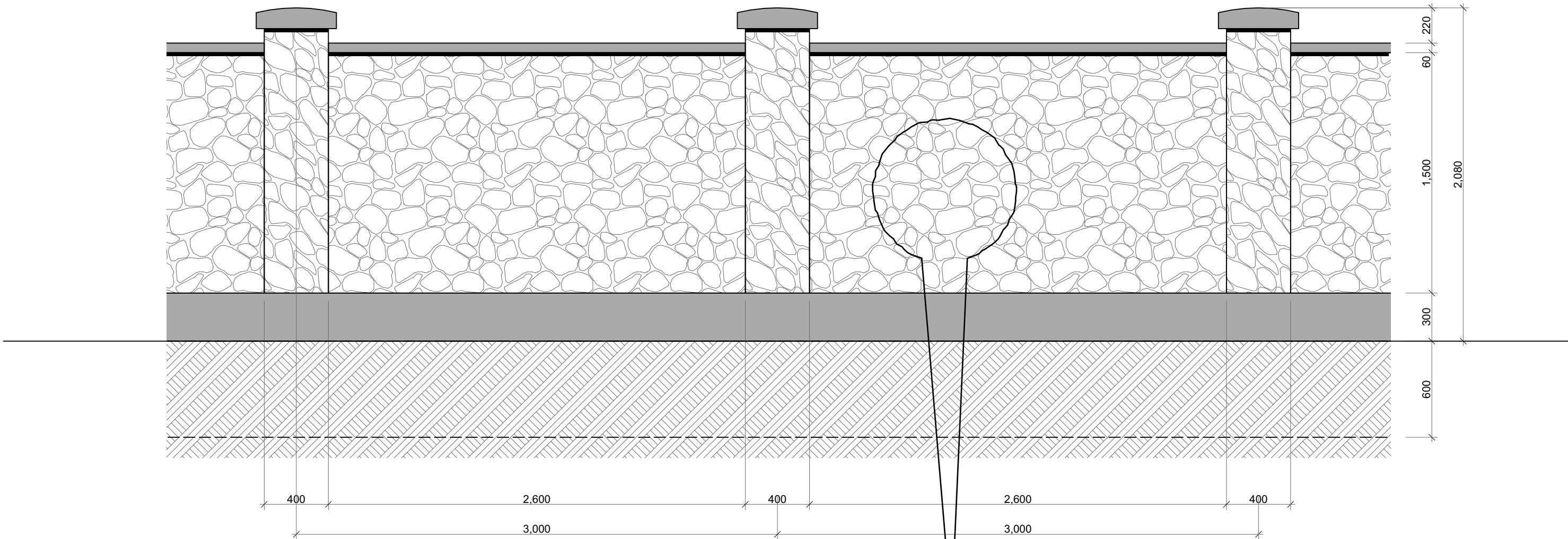




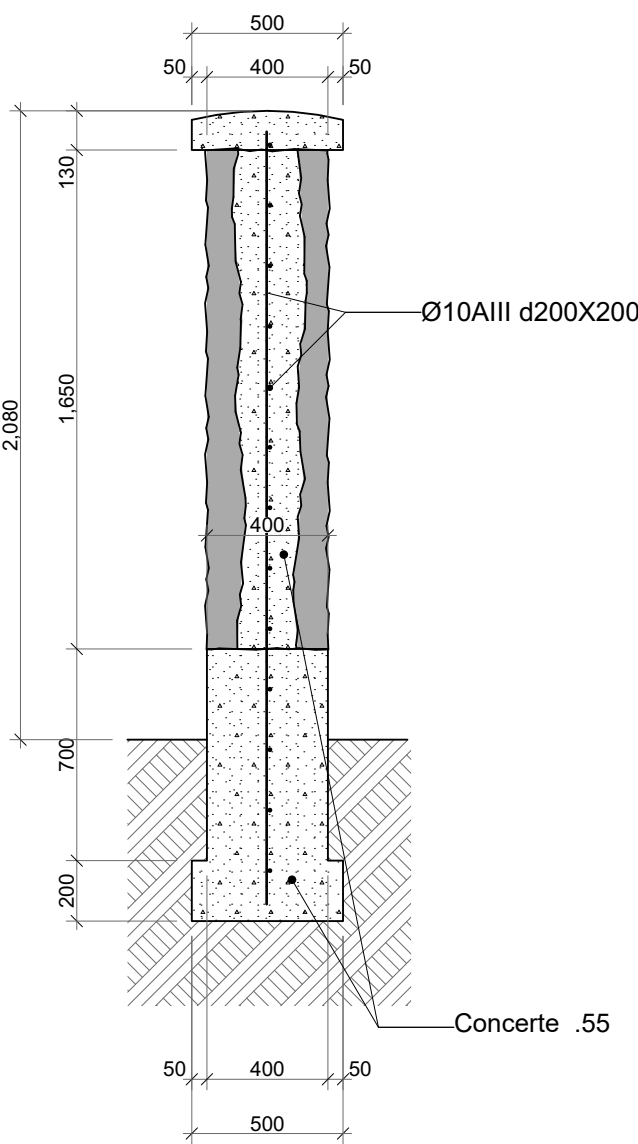
Natural Stone Fence

1 I

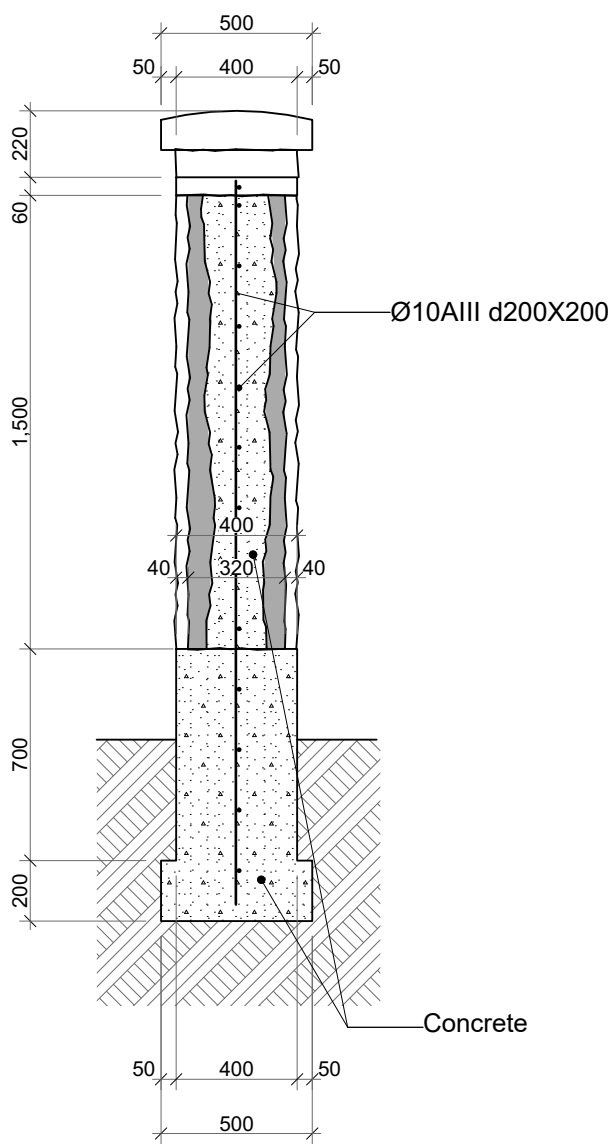
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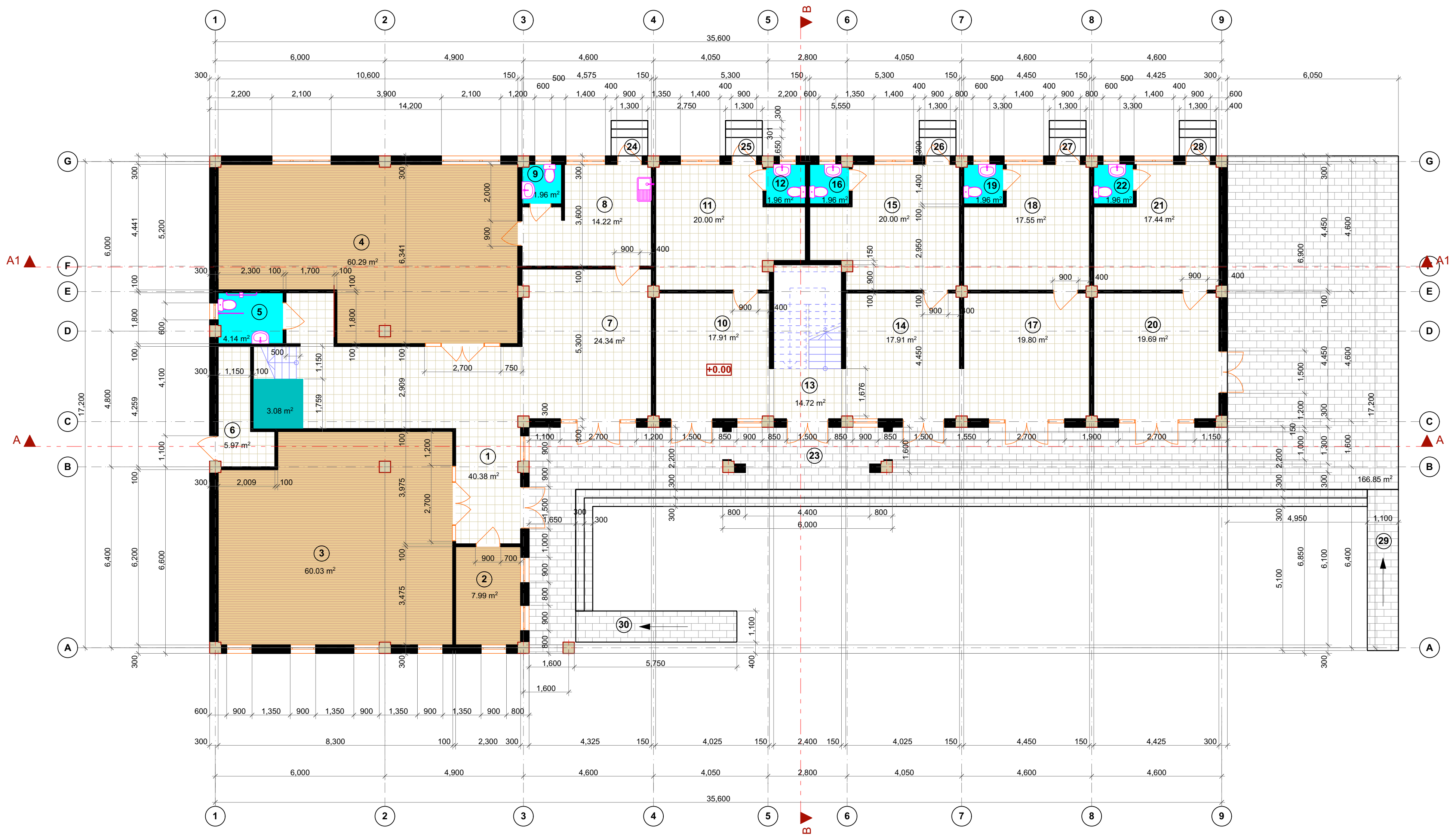
Section 1-1



Section 2-2







Legend:

- 1. Hall
- 2. Guards room
- 3. Exhibition space
- 4. Assembly Hall
- 5. WC of persons with disabilities
- 6. Boiler room
- 7. Commercial space
- 8. Kitchen
- 9. WC
- 10. Commercial space
- 11. Warehouse
- 12. WC
- 13. Stairway
- 14. Commercial space
- 15. Warehouse

- 16. WC
- 17. Commercial space
- 18. Warehouse
- 19. WC
- 20. Commercial space
- 21. Warehouse
- 22. WC
- 23. Entrance
- 24. Stair platform
- 25. Stair platform
- 26. Stair platform
- 27. Stair platform
- 28. Stair platform
- 29. Ramp
- 30. Ramp

The total area of the floor - 391.1 m2

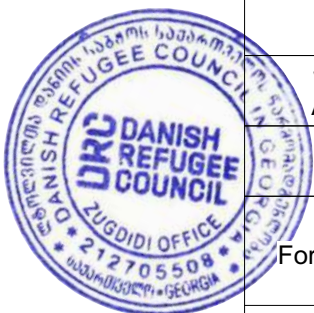






Legend:

- |                    |                   |
|--------------------|-------------------|
| 1. Hall            | 13. Common room   |
| 2. Manager Cabinet | 14. Bedroom       |
| 3. Office          | 15. WC            |
| 4. Office          | 16. Bedroom       |
| 5. Office          | 17. WC            |
| 6. Dining room     | 18. Bedroom       |
| 7. WC              | 19. WC            |
| 8. Terrace         | 20. Administrator |
| 9. Lobby           | 21. WC            |
| 10. Common room    | 22. Terrace       |
| 11. Bedroom        | 23. Balcony       |
| 12. WC             |                   |

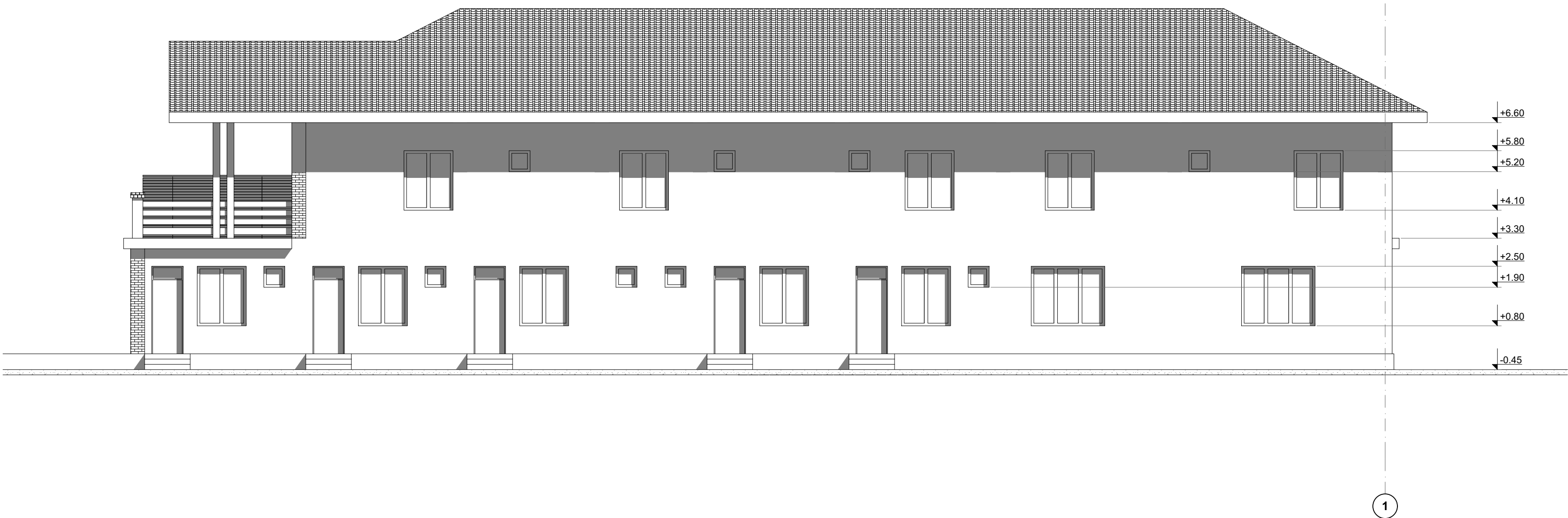




Facade 1-12



Facade 12-1





Crafts  
Development  
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2,  
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Georgia,  
Zugdidi

Stage:  
Architectural project

Facades

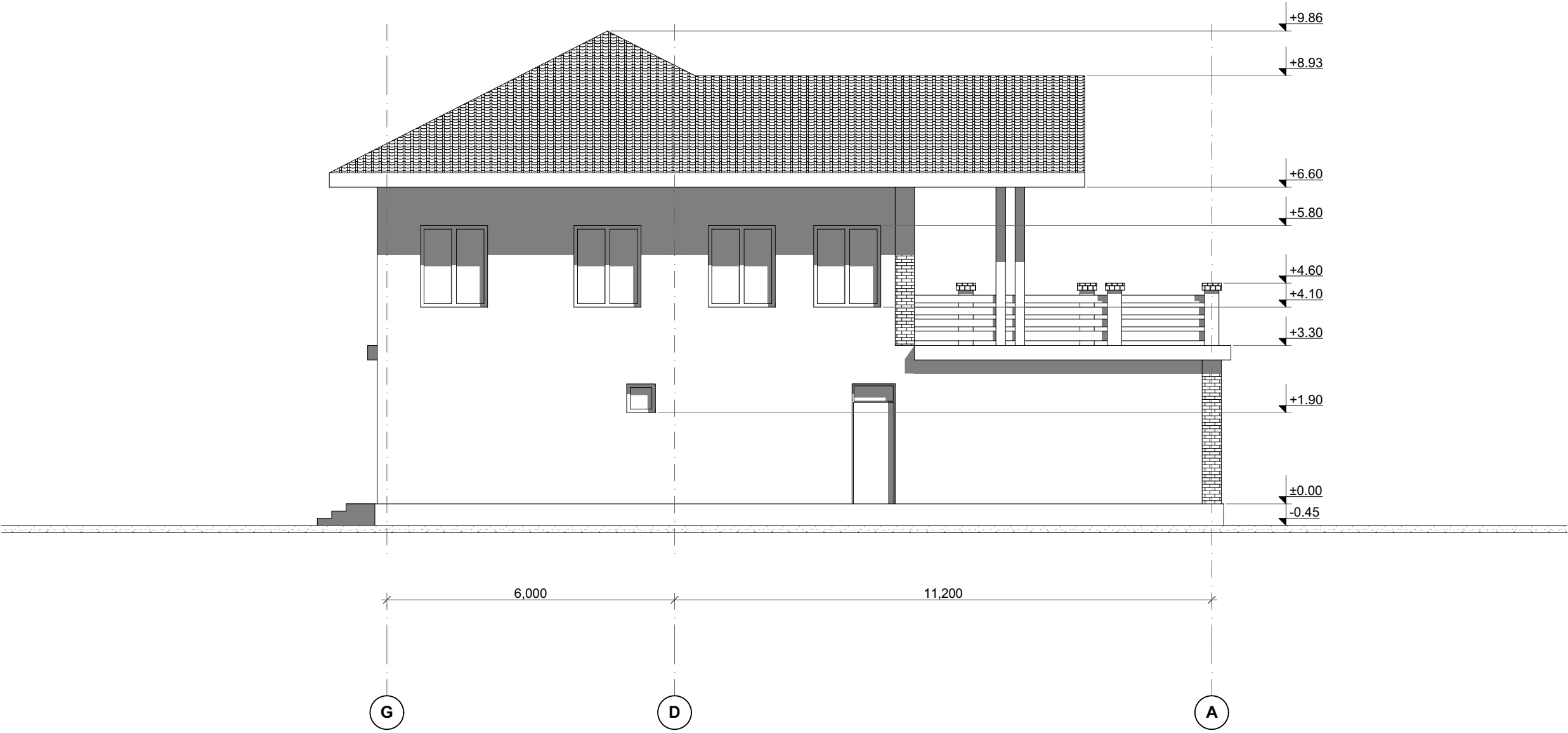
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ა. გერგელავა  
A. Gergedava

Format A - 2

Page	Pages
20	

Facade F-A



Facade A-F





Textures on Rendering



Crafts  
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Architectural project

Textures on  
Redering

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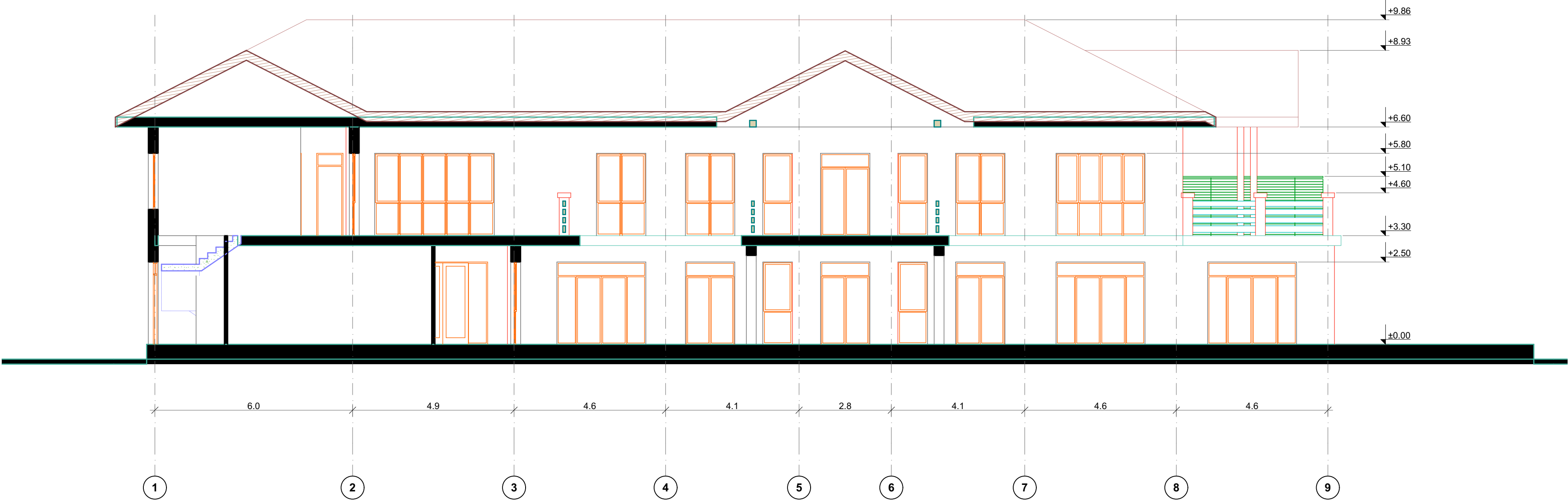
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21

Pages

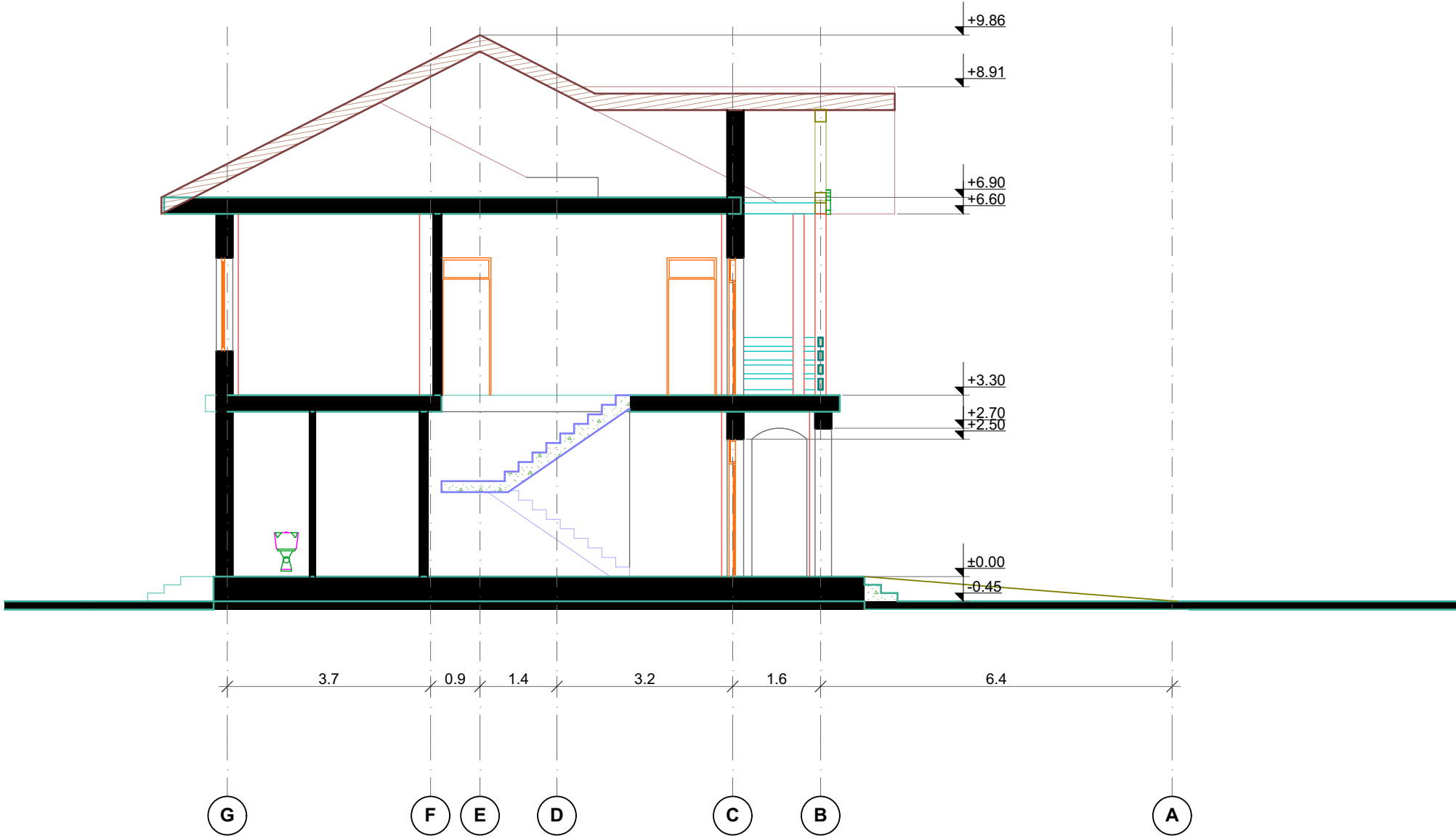




Section A-A

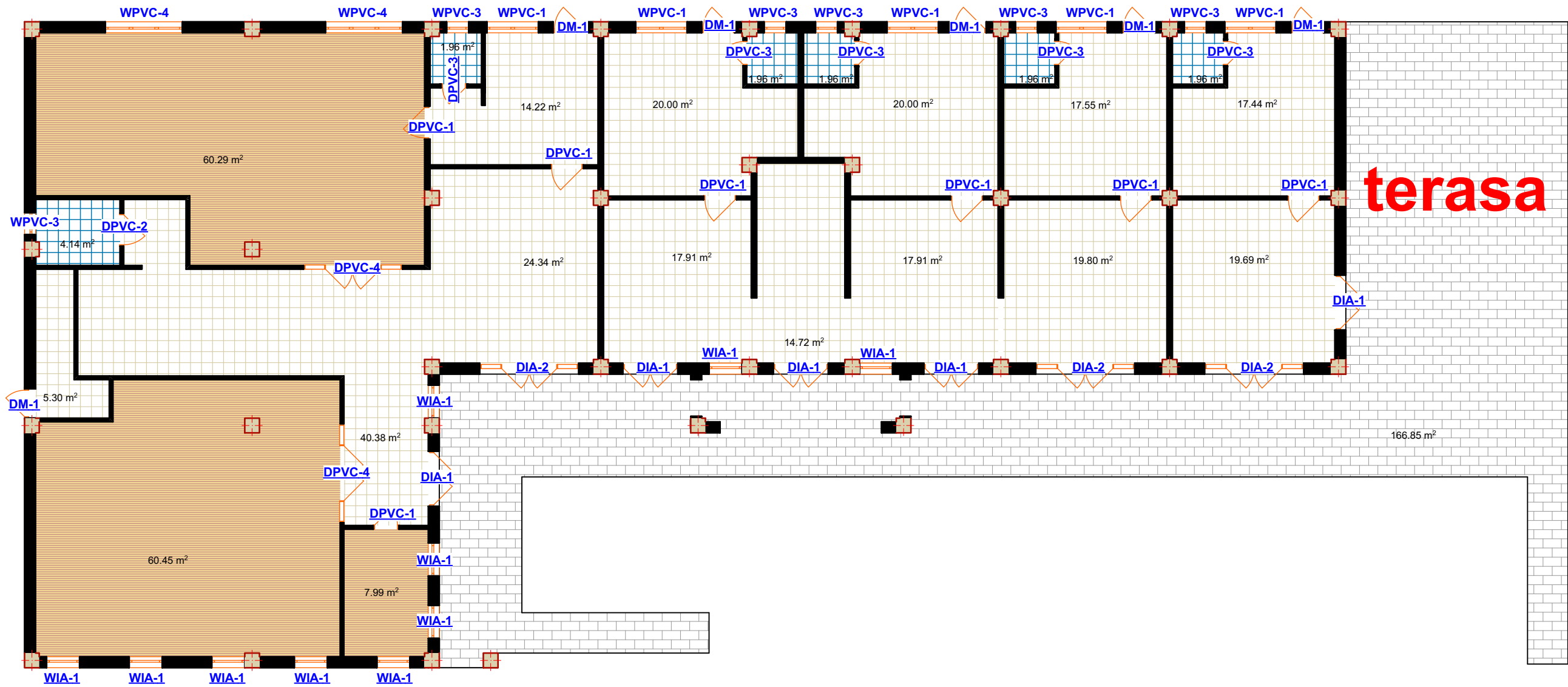


Section B-B

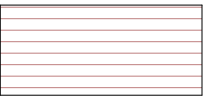




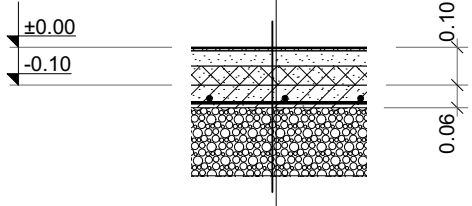
Types of Floors and Doors and Windows on the First Floor Plan



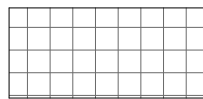
Laminate parquet flooring



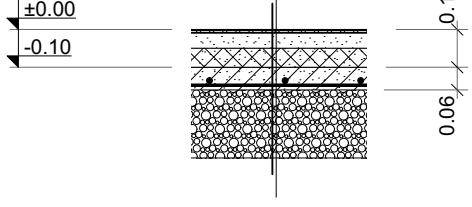
Laminate parquet 10 mm  
Cushion  
Screeding with cement-sand mortar  
Insulating with XPS tiles of 30 mm thick  
Reinforced concrete slab of 6 cm thick  
Polyethylene tape with a thickness of 0.1 mm  
Gravel embankment



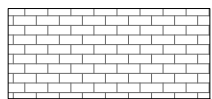
Ceramic (tile) flooring



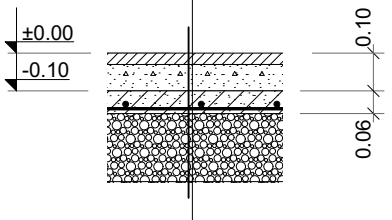
Ceramic (tile) tile 8 mm  
Cement glue  
Screeding with cement-sand mortar  
Insulation with XPS tiles of 30 mm thickness  
Reinforced concrete slab of 6 cm thickness  
Polyethylene tape with a thickness of 0.1 mm  
Gravel embankment



Basalt flooring

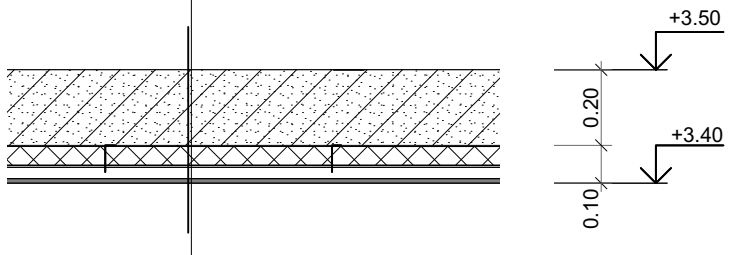


Basalt tile 30 mm  
Cement and sand mortar  
Reinforced concrete slab of 8 cm thick  
Gravel embankment



Ceiling Structure at +3.30 Mark

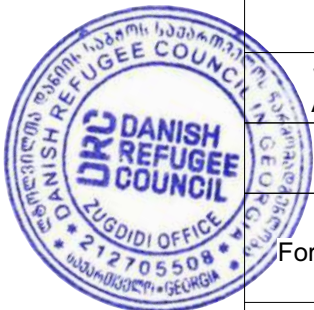
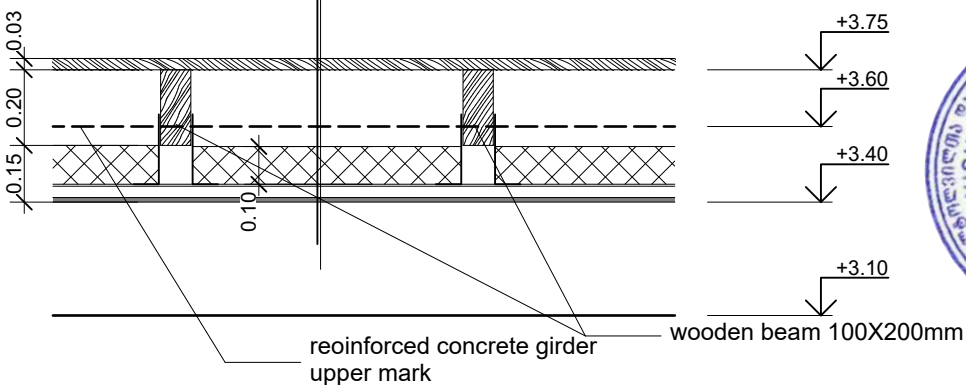
Basalt tile 30 mm  
Cement and sand mortar  
Reinforced concrete slab of 8 cm thickness  
Gravel embankment



Note: -  
Plastic ceilings are arranged in the WC, kitchen, and terrace

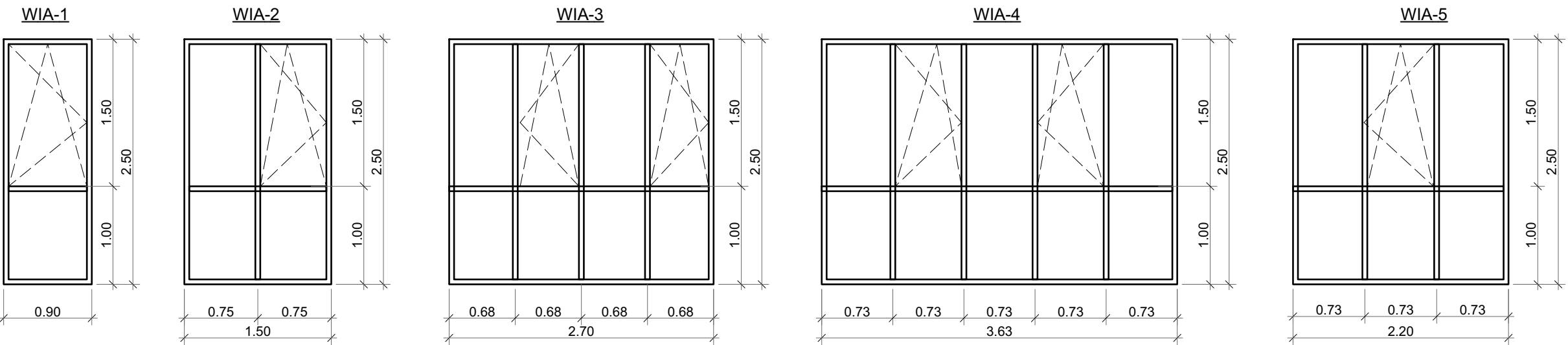
Ceiling Structure at +6.60 Mark

Wooden boarding - 30 mm  
Glass-wool thermal insulation with a thickness of 10 cm  
Gypsum board (plastic) fastening structure  
Gypsum board 12 mm (plastic board)

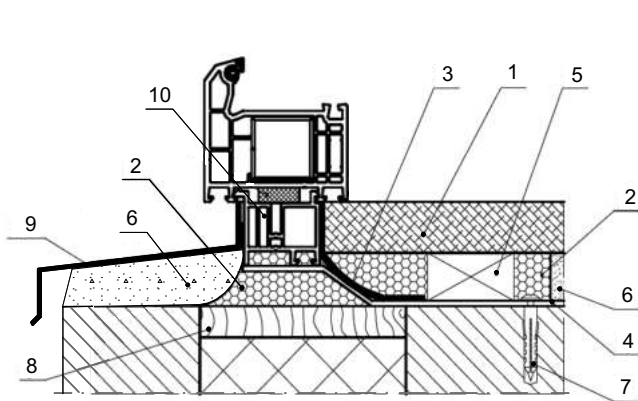




Iso-aluminum Windows

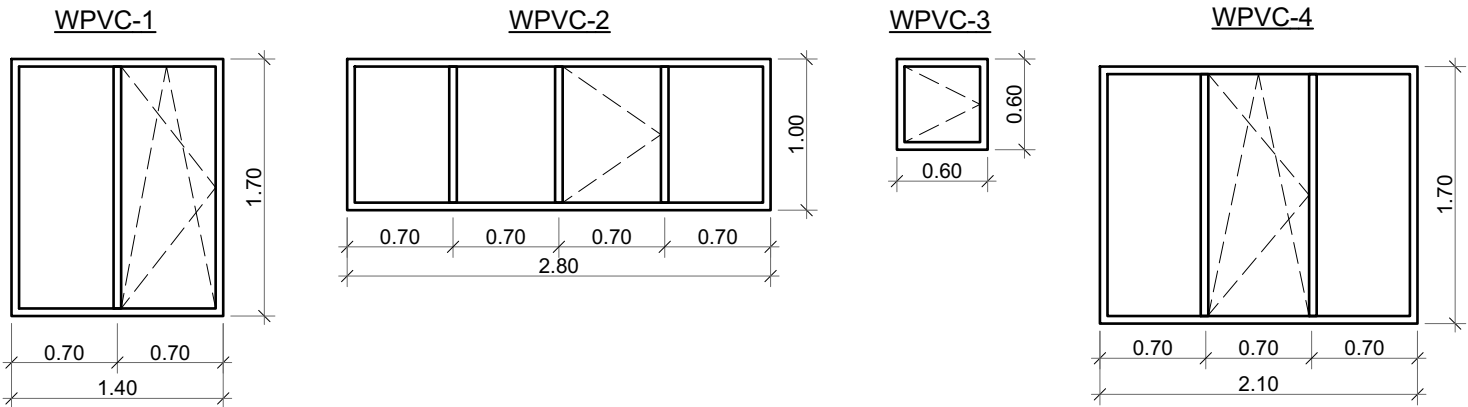


Window Unit



1. Cill
2. Mounting foam
3. Steam insulation tape
4. Flexible Anchor
5. Support fixation
6. Plaster
7. Clamp Doubles
8. Mortar layer
9. Water drainage
10. Auxiliary underlayer profile

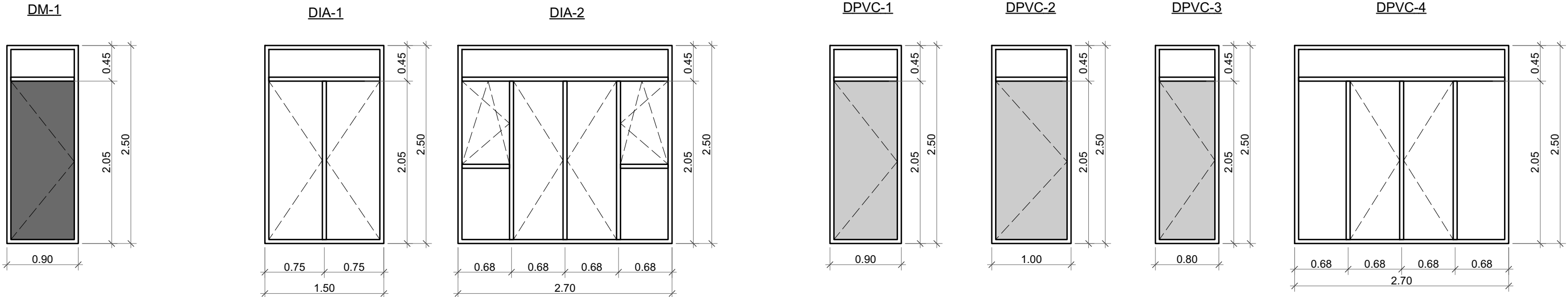
PVS Windows



Steel Doors

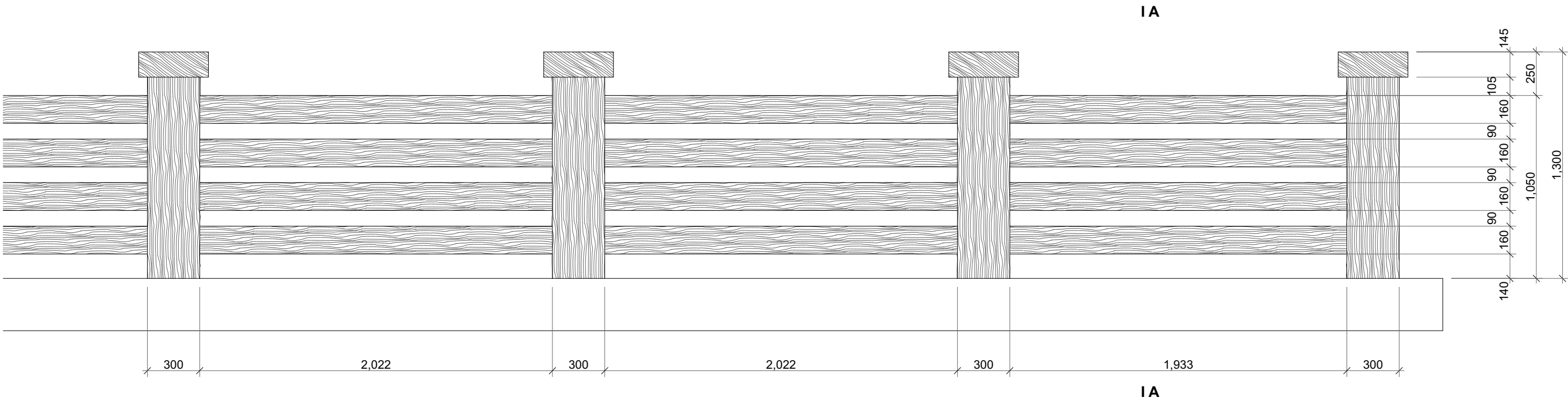
Iso-auminum Doors

PVC Doors

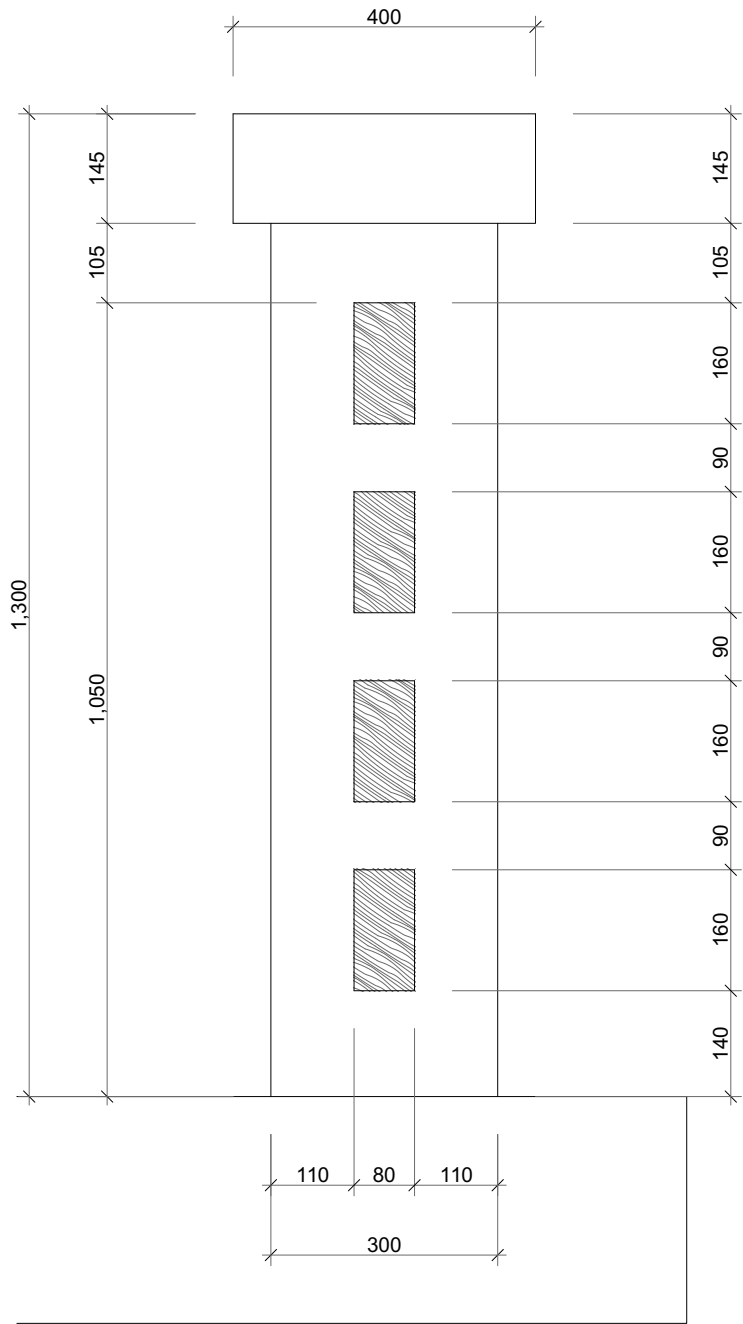




Fragment of wooden railings on terraces and balconies



Section A-A



Crafts  
Development  
Center  
2,  
Tabukashvili  
Street, Zugdidi

Project address:  
Georgia,  
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Stage:  
Architectural project

Fragment of  
wooden railings  
on terraces and  
balconies

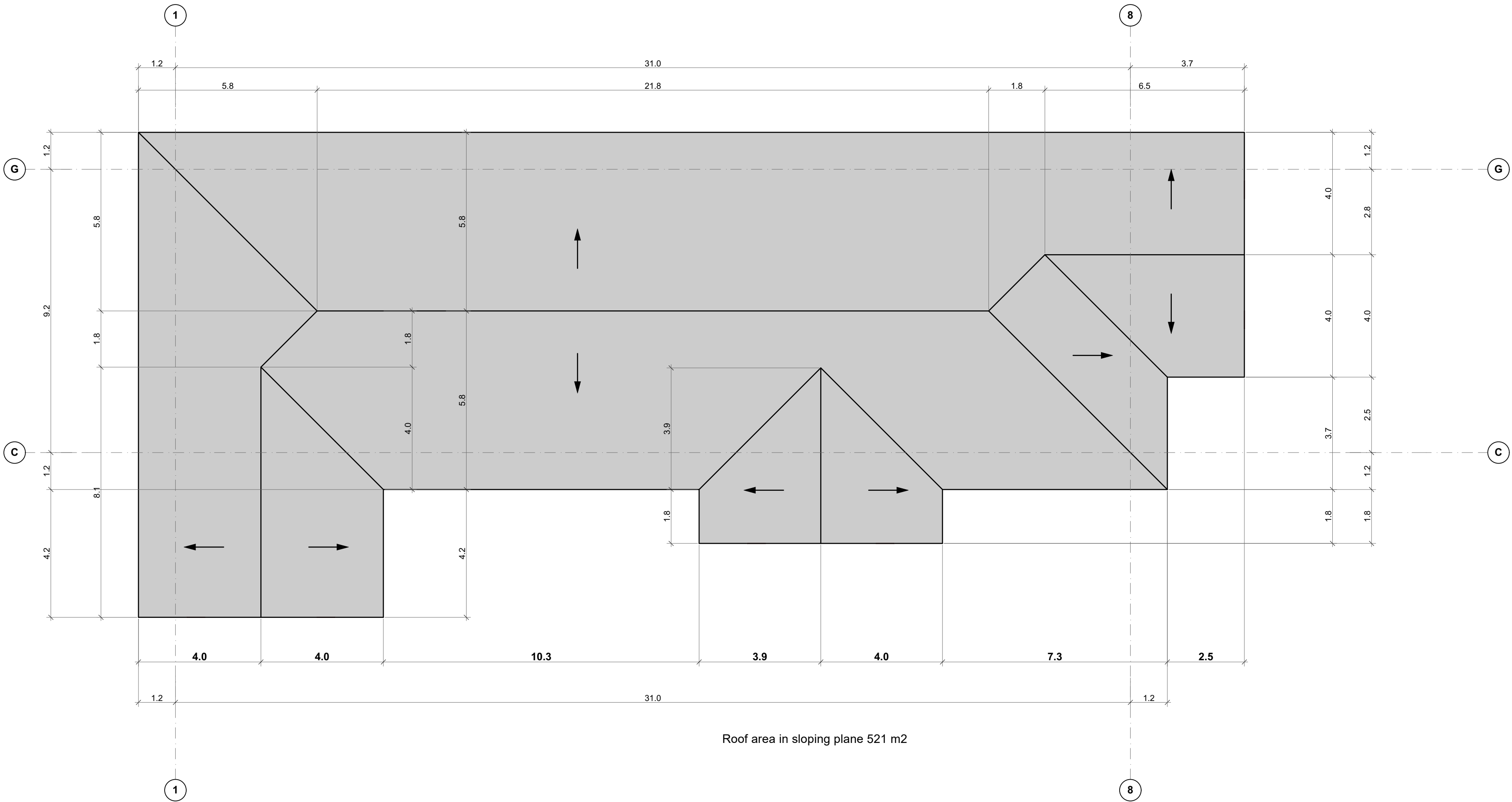
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ა. გერგელავა  
A. Gergedava

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Explanatory Note

The project of organization of construction site has been developed in accordance with the Resolution of the Government of Georgia "On the Rules and Permit Conditions for Issuing a Construction Permit" and the Construction Norms and Rules. And 3.01.01.-85 considering the ` Organization of Construction. The development of the project of organization of construction site has been developed in accordance with the Resolution of the Government based on the draft construction documents.

The start of construction is allowed after the issuance of a construction permit by the City Hall. Construction should be carried out in accordance with the technological plan in accordance with the technological cycles. It is not allowed to deviate from the decisions of the approved project documentation, all changes in the project must be agreed upon with the authors of the project. Arrangement of all temporary electrical installations and networks during construction shall be carried out in compliance with the applicable electrical technical rules and regulations, as well as occupational safety rules.

The Conditions of the Construction and Description of the Site

The construction is envisaged in the town of Zugdidi, the relevant parameters of the norms of construction climatology are as follows:

- Average temperature of the year: + 13.8 ° C
- Absolute maximum temperature: + 40 ° C
- Absolute minimum temperature: - 19 ° C
- Annual precipitation: 1723 mm
- Snow cover weight: 0.5 kPa
- Standard height of seasonal ground freezing: 0 m
- Standard wind pressure: 0.3 kPa
- The prevailing wind direction: East

- According to the map of seismic zones, Zugdidi belongs to the 8-magnitude seismic zone.

From the engineering and geological point of view, the area allocated for construction is in satisfactory condition, no physical-geological events (landslides, collapses, etc.) are observed. Due to its location in the seismically active zone of the whole territory of Georgia, construction norms and rules - "Earthquake Resistant Construction" (01.01.09) apply to the design of new buildings, as well as reconstruction, strengthening, and rehabilitation of residential, public and industrial buildings. 'Construction Norms and Rules' should be applied in conjunction with other regulating documents in the construction industry.

During the construction, the construction norms and requirements of the rules in force in Georgia approved by the order of the Minister of Economic Development of Georgia must be observed. The construction site is a rectangular plot of land bordered by the public zone to the north, namely the street, and adjacent plots of land on all other sides. There are no buildings in the area. The project envisages the placement of a kindergarten building on the plot with the main façade facing the northern public area, with the main entrance arranged on this side. Yard landscaping and fencing are also provided.

The planning solution of the building envisages the arrangement of a community development center in it, as well as commercial spaces. The building presented in the project is a two-storey stone building, the floor level of which is raised by an average of 45 meters from the ground floor (including the walkway). The height of the floor of the building from floor to ceiling is 3.3 meters.

The hearting of the external walls is done with a reinforced masonry of small wall pumice blocks of 40 cm thick.

The bearing structure of the building is a frame structure consisting of a complex reinforced concrete frame, reinforced concrete columns, monolithic reinforced concrete slabs, and reinforced concrete roofing slabs, reinforced concrete columns on the external walls can be concreted in parallel with the masonry works.

The partitions are made of reinforced small wall pumice block with a thickness of 10 cm. Floors in bathrooms are finished with tile, and in rooms with wooden planks (deck). Floor warming is completed with XPS tiles, while ceiling warming is done with glass-wool. The suspended ceilings of the toilets and the kitchen are made of plastic, while in the rooms it is are made of plasterboard.

The bearing structure of the roof is made of wood, while the roof is made of painted metal tiles. The windows are made of PVC with double glazing. Entrance doors are made of steel and iso-aluminum, metal in the WC and bathroom units, and wood in the rooms (so-called MDF). External stairs and platforms are paved with basalt tiles. Concrete walkways are arranged around the building.

The building is equipped with electricity, sewerage, and water supply, as well as internal heating networks, which will be connected to main external networks.

Project of the Construction Organizing

Technical specifications of the area:

Area of the territory - 1756.0 m2  
Development area - 445.1 m2  
Development density - 795.8 m2  
Planting area - 725.0 m2  
Coefficient K1 - 0.3  
Coefficient K2 - 0.5  
Coefficient K3 - 0.5

Technical specifications of the building:

Number of floors in the building - 2 floors  
The volume of the building - 4984.0 m3  
Among them: overground - 3871.0 m3  
substructure - 1112.0 m3  
Total area -706.0 m2

Prior to construction, the construction site should be fenced with a temporary fence within the cadastral boundary. The project of the vertical planning of the area for the transfer of surface water to the street envisages the arrangement of embankment in the part of the yard with a ballast, for which a concrete wall is provided, on which a fence will be arranged. Finished concrete should be delivered by means of a concrete pump, which can be installed in the internal space of the yard in the northern as well as in the southern part of the area. According to the decree of the Government of Georgia, taking into account the characteristics of the building classes, the building belongs to the 3rd class.

Duration and Stages of the Construction

The duration of construction is determined according to the purpose of the building, the number of floors, and the materials used. Considering Construction Norms and Rules 1.04.03-85 in 8-9 magnitude seismic areas for public facilities, the seismicity coefficient is taken as K = 1.15. Construction deadlines were determined taking into account the real logistic conditions and capabilities. The duration of construction was set at 18 months, including 1 month for preparatory work. Preparatory work consists of two stages:

1. Preparatory works, which envisage removal of garbage and construction solid waste in the area, the arrangement of ballast embankment in the area, its compaction, and then fencing of the construction site.
2. Marking up the building and removal of the main axes. Preparatory work includes organizational activities as well as external and internal works of the construction site.

**Sequence of construction works:**

- 1) Land and building foundation arrangement works.
- 2) Arrangement of the foundation and the main structural system of the building to a zero mark.
- 3) Installation of the main bearing and non-bearing structures on the floor of the building.
- 4) Installation of the roof of the building.
- 5) Installation of doors and windows.
- 6) Exterior finishing works of the building.
- 7) Internal finishing works of the building (in parallel, installation of electrical and other engineering networks, in particular, water supply and sewerage, heating system).
- 8) Landscaping works.

Construction Site Organization and Construction Safety Rules

Prior to the start of major construction works, the construction site and its surrounding area shall be arranged. The boundaries of the construction site should usually be within the cadastral boundaries of the land. After arranging the ballast embankment, the construction site is fenced and temporary buildings are laid out. Before the earthworks are started, the building axes are marked and removed from the perimeter of the building. An information banner perceived from public spaces should be placed on the construction site. The works on the construction site should be organized in such a way as to ensure construction safety in accordance with Resolution # 6228.03.07 of the Government of Georgia, as well as the `Construction Safety Rules` and Construction Norms and Rules and according to Rule III-4-80. The construction safety rules apply to the works to be performed on the construction site provided by the construction permit and define the safety requirements on the construction site during the following works: organization, construction machinery, technical equipment, and tools operation, electric and gas welding, loading-unloading, insulation, earthworks, the foundation works, fulfilling of concrete and reinforced concrete, installation, dismantling and other construction works. It is necessary to observe all fire-fighting measures in accordance with the fire-fighting norms during construction-installation works in accordance with the construction norms and rules 2.01.02-91. Access to the construction site should be controlled and the possibility of unintentional entry by strangers should be excluded. The fence in the traffic area should be covered with a protective cover to ensure the safety of pedestrians. In the dark, fencing should be equipped with signal lamps or use material or color that is perceived in the dark. The area of the dismantled building (in case of fixing) should be fenced in the same way. There should be a responsible person on the construction site who is responsible for enforcing safety rules.

Workers and engineering staff must wear helmets, and special work must be carried out using appropriate equipment. There should be first aid kits on the construction site. Storage and placement of materials, structures, and other equipment must be carried out following the rules to exclude the possibility of their slipping, setting, falling, and spreading. Dusty materials should be stored in warehouses. During loading and unloading works, measures must be taken to prevent their scattering. Harmful or explosive solvents must be stored in a hermetically sealed container. In order to protect the working-hygienic conditions of the construction workers and to organize the labor properly, temporary buildings are provided on the construction site to the south of the building, which must be taken as soon as the construction works are completed before the landscaping works begin.

List of Acts of Concealed Works

Upon completion of the major construction work, a concealed work report must be drawn up by the construction manufacturer prior to the on-site inspection prior to the commencement of the next work that will result in its concealing. List of major construction and installation works, after which the report of concealed works should be drawn up:

- Marking of building axes
- Accepting a trench arranged for the foundation
- Arrangement of reinforced concrete foundation
- Arrangement of reinforced concrete tabs and walls
- Inspection of the waterproofing of the foundation, basement walls, and roof
- Connection of the columns to the walls
- Accepting landscaping works in the area

Environment Protection and Ecology

In the process of implementation of works on the construction site, it is necessary to take measures to protect nature and air pollution in accordance with applicable legislation and regulations. It is forbidden to cut perennial trees and plants in the construction zone without the permission of the Environmental Protection Service. It is not allowed to wash concrete and cement mortar pipes in the existing sewage well or to contaminate them with construction waste. It is forbidden to dump waste and construction waste without closed gutters and hoppers. If dust is expected during the construction-reconstruction process, the building should be covered with a curtain or work should be carried out indoors. When transporting loose construction debris, the surface must be covered or covered with a protective coating after being loaded into the vehicle body. Before leaving the construction site, vehicles need to have their tires cleaned to prevent pollution of town streets.

Recommended Construction Machinery; Vehicles; Tools

	List of Machinery	Works
1	Excavator, with capacity of 0.2 m3	Land works
2	Road rammer	Yard development
3	Lift crane	Various works
4	Auto-damper	Ground removal, delivery of inert materials
5	Vehicle with body	Transportation of materials
6	Special motor vehicle with trailer	Transportation of reinforced concrete and other large materials
7	Portable compressor	Air supply
8	An in-depth vibrator	Concrete works
9	Surface vibrator	Concrete mortars
10	Welding plant	Welding Works
11	Concrete mixer	Mortar preparation
12	Concrete pump with conveyor	Concrete works
13	Multipurpose electro-pneumatic unit	Construction and Special Works

Note: It is possible to use modern equipment of the same parameters taking into account the existing technical database.



Crafts Development Center 2, Tabukashvili Street, Zugdidi

Project address:  
  
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Stage:  
Architectural project

Project of the Construction Organizing

ბ. ჭანთარიას B. Qantaria

ა. გერგელავა A. Gergedava

Format A - 2

Page	Pages
27	





Crafts  
Development  
Center  
2,  
Tabukashvili  
Street, Zugdidi

Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

General plan  
of the  
construction

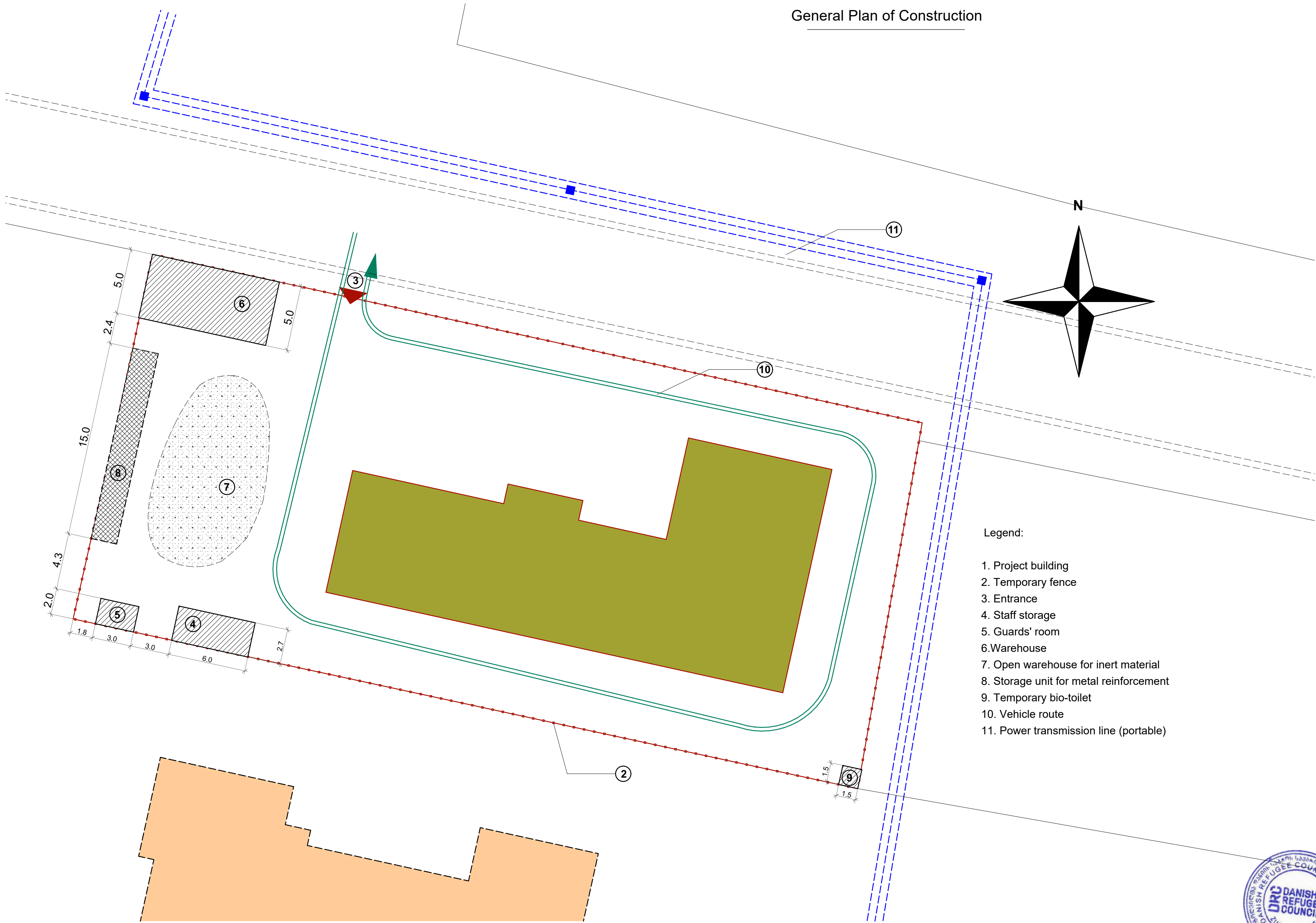
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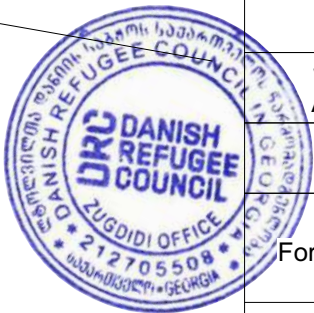
Format A - 2

Page 28  
Pages

General Plan of Construction



- Legend:
- 1. Project building
  - 2. Temporary fence
  - 3. Entrance
  - 4. Staff storage
  - 5. Guards' room
  - 6. Warehouse
  - 7. Open warehouse for inert material
  - 8. Storage unit for metal reinforcement
  - 9. Temporary bio-toilet
  - 10. Vehicle route
  - 11. Power transmission line (portable)





Crafts  
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Time Schedule of the Construction

	Description of Works	18 Months																	
		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII
1	Preparatory work																		
2	Arrangement of imbankement on the territory																		
3	Foundation works																		
4	Basement works																		
5	Floor concreting																		
6	Construction of wall column																		
7	Concreting of reinforced concrete eaves and girders																		
8	Roofing of the building																		
9	Installation of windows and doors																		
10	Wall plastering																		
11	Finishing works																		
12	Electric installation works																		
13	Sanitary-engineering works																		
14	Yard development works																		
15	Cleaning of the territory																		

Project address:  
Georgia,  
Zugdidi

Stage:  
Architectural project

Time  
Schedule of  
the  
Construction

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ა. გერგედავა  
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