

**Architectural Project**  
Typical Kindergarten  
for three groups  
Mshvidobis street, 306, Senaki  
Structural Part of the Project





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Explanatory Letter

General Information

The construction site (cadastral code of the land plot 44.01.38.140) is located in the town of Senaki, According to the norms - "Construction Climatology" the climatic characteristics of the construction site are the following:

- The average annual temperature is + 14.5. C
- Absolute maximum temperature + 40 ° C
- Absolute minimal temperature - 17 ° C
- Annual precipitation -1831 mm
- Snow cover weight - 0.5 kPa
- Standard height of seasonal ground frost - 0 m
- Standard wind pressure 0.6 kPa
- The prevailing wind direction is - East
- According to the map of the seismic regions, Senaki belongs to the 8-point seismic zone.

From the engineering and geological point of view, the area allocated for construction is in satisfactory condition, no geological phenomena (landslides, falls, etc.) have been reported.

Planning

The construction site is a rectangular plot of land bounded by the public zone from the North and East, namely the streets, and adjacent land plots on all other sides. There are solid buildings in the area which are subject to demolishing. The project envisages the placement of a kindergarten building by the main facade to the North, to the street side, with main entrances to the East and North. The development and landscaping of the yard and arrangement of a playground and an arbor are planned as well as fencing. The planning solution of the building includes the placement of three groups of kindergarten. One of them will have a bedroom unit, while such a unit will not be for the two preschooler groups; the girls 'and boys' toilets in this group are separated.

Building

The building presented in the project is a one-storey stone building, the floor level of which is 1.0 meters above the ground (including the walkway).The first-floor mark 0.00 corresponds to the absolute mark of 23.30. The height of the floor of the building from the floor to the ceiling is 3.4 meters.The filling of the external walls is done with a reinforced masonry of small pumice blocks 30 cm thick. The bearing structure of the building is a complex reinforced concrete frame, reinforced concrete columns, a frame structure made of the monolithic reinforced concrete girder. The reinforced concrete columns on the external walls can be concreted in parallel with the masonry of the walls. Partitions are made of reinforced small wall pumice block with a thickness of 10 cm. Floors in bathrooms are finished with tile, and in the rooms with wooden planks (deck). Floor heating is done with XPS tiles, and ceiling insulation is done with glass fiber. Suspended ceilings in the bathrooms and kitchens are made of plastic, while in the rooms are made of gypsum boards.The bearing structure of the roof is made of wood, while the roofing is a painted metal sheet. The windows are made of double-glazed PVC profiles.The entrance doors are made of steel and iso-aluminium, with plastic in the bathrooms and wood in the rooms (so-called MDF). Exterior stairs and entryways are covered with basalt tiles. A concrete walkway and access paths are arranged around the building. The building will be provided with electricity, sewerage and water supply, as well as internal heating networks, which will be connected to the external main networks. According to the resolution of the Government of Georgia, taking into account the characteristics of the grades of the buildings, the building belongs to the 3rd grade.

Technical indicators of the area:

Area - 3610.0 m2  
Construction area - 682.2 m2  
Development density - 682.2 m2  
Planting area - 2550 m2  
The coefficient K1 - 0.2  
The coefficient K2 - 0.2  
The coefficient K3 - 0.7

Technical indicators of the building:

Number of floors - 1 floor  
The volume of the building is 4713 m3  
Out of them:  
On the surface of the land - 3758 m3  
Under the surface of the land - 955 m3  
Total area - 627.84 m2



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ჟ-1-ბ Sketch



682.23 m2

Project address:  
  
Georgia,  
Snaki

Stage:  
Architectural project

Explanatory note

ბ. ჟანთარია

B. Qantaria

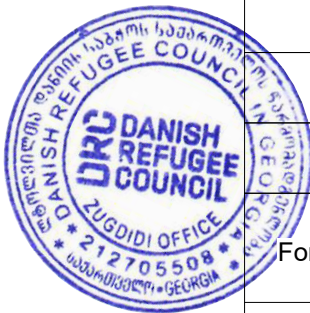
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A. Gergedava

ა. გერგელავა

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Rendering

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Rendering

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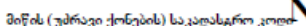
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22/09/2016 09:50:40

ზონა	სექტორი	კვარტალი	ნაკვეთი	ნაკვეთის საკუთრების ტიპი:საკუთრება
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44	01	38	140	დამუშავებული ფართობი: 3610.00 კვ.მ.
მისამართი: ქალაქი სენაკი , ქუჩა შვედილობა , N 306				ნაკვეთის წინა ნომერი:44.01.06.071;
				შენიშვნა-ნაგებობის ჩამონათვალი№1 გაშენების ფართობი 435.64 კვ.მ; N2 გაშენების ფართობი 4.71 კვ.მ; N3 გაშენების ფართობი 59.19 კვ.მ.

განცხადების რეგისტრაცია : ნომერი 882008376177 , თარიღი 18/12/2008 16:35:43

- სახელმწიფო საკუთრებაში არსებული უძრავი ქონების ძირითადი და დამატებითი ქონების სახით გადაცემის შესახებ N13, დამოწმების თარიღი: 06/10/2008, სახელმწიფო ქონების აღრიცხვისა და პრივატიზაციის სამეგრელო-გურია-სვანეთის სამხარეო სამმართველო

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შეგობიანობა, N0661211, 25.11.2010, სერვისების მუშაობის მისამართი  
მომართვა, 21-05/21594, 04.03.2015, შემოსავლების სამსახური

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

გვერდი: 1(2)

საგანი: მიწის ნაკვეთი ფართობით 3610 კვ.მ და მასზე განთავსებული შენობა-ნაგებობები N1, N2, N3 ;  
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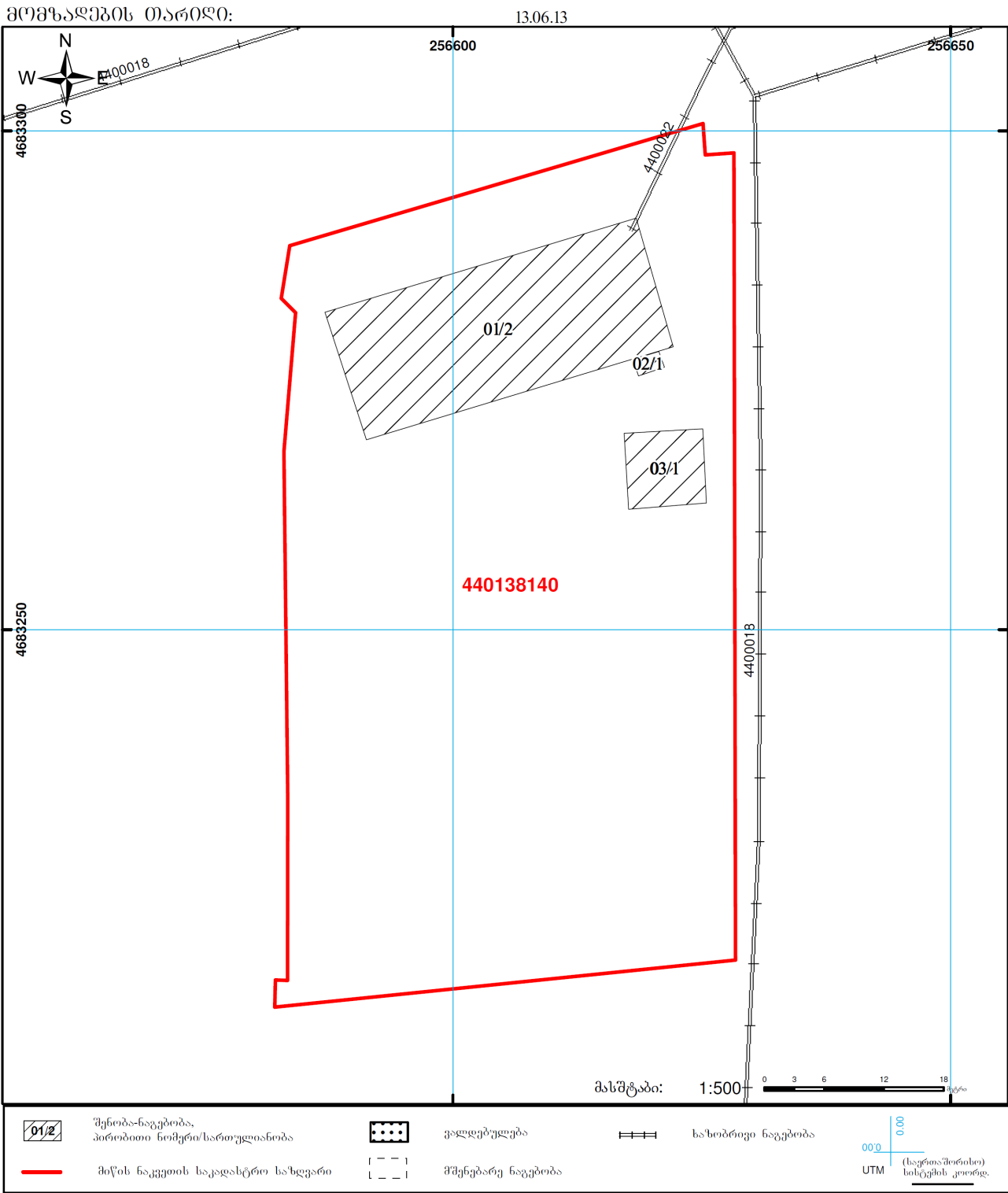


Cadastral Data



საქართველოს იუსტიციის სამინისტრო  
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საქალაქო გეგმა

მიწის ნაკვეთის საკადასტრო კოდი: 44 01 38 140  
განცხადების რეგისტრაციის ნომერი: 882013262409  
მიწის ნაკვეთის ფართობი: 3610 კვ.მ.  
დანომუშავა: არასასოფლო-სამეურნეო



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საჯარო რეგისტრაციის სამსახური, ქ. სენაკი 4100 რუსთაველის ქ. № 235 ტელ: ( 7 83 23 )  
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Architectural  
Project  
Typical  
Kindergarten  
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Mshvidobis  
street, 306,  
Senaki

Project address:  
Georgia,  
Snaki

Stage:  
Architectural project

Land cadastre

ბ. ჯანთარია  
B. Qantaria

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A. Gergedava

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Architectural project

Photos of Existing  
Building

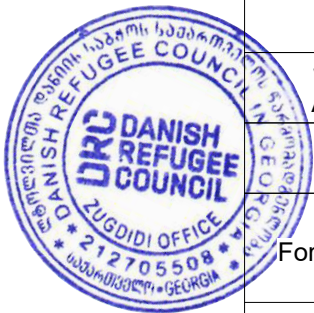
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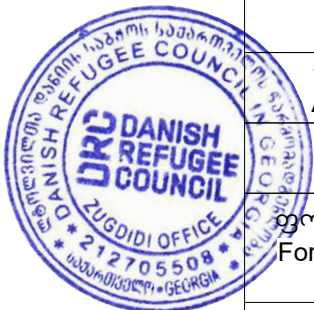
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Layout Plan

ბ. ქანთარია  
B. Qantaria












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Conventional Signs

	Cadastral border
	Wall fireproof (one hour)
	Wall Fireproof (150 minutes)
	Educational Group EG
	Business Group BG
	Gathering Group GG-2
	Gathering Group GG-3
	Warehouse Group-2
	Concrete bloch masonry
	Hand fire extinguisher
	Exit sign

Analysis of Compliance of the Building with  
Safety Rules

Used rules- Building Safety Rules
-----------------------------------

List the occupations of the building
Educational Group EG
Business Group BG
Gathering Group-2
Gathering Group- GG-3
Warehouse Group SG-2

Structure Type		
Determine the construction type for the new building	V-	
Height Limitations		
Occupations	Allowable Height	Suggested Height
1. Educational Group EG	1 Floor	1 Floor
2. Business groupd BG	2 Floor	
3. Gathering Group GG-2	1 Floor	
4. Gathering Group -3	1 Floor	
5. Warehouse Group	2 Floor	
Total Height	12.2	8.00
Number of floors above ground		1 Floor

Limitations of the Area			
Occupations	Allowable area	Suggested Area	
1. Educational Group EG	880	115.46 m²	
2. Business groupd BG	840	24.66 m²	
3. Gathering Group GG-2	560	169.9 m²	
4. Gathering Group -3	560	69.62 m²	
5. Warehouse Group	1250	68.63 m²	
Total Area of The Flooring	627.8 m²		
Quantity of Flooring	Aboe the ground level 1		
Total area of the building	669.3 m²		

Requirements to External Wall Aperture					
External Wall	Fire-fighting distance	area of wall aperture			
		allowable		forseen	
		protected	protected	protected	protected
Axis 1-8	25.7 m.	unlimited	unlimited		28 %
Axis A-E	5 m.	75%	25%		14 %
Axis 8-1	27.7 m.	unlimited	unlimited		20 %
boob E-A	11.2 m.	unlimited	unlimited		15 %

Requirements to the Fire-Prevention System		
Is there an auto-sprinkler system?		No
Is there a fire extinguishing system?		No
Is there a smoke control system?		No
Are there hand-held fire extinguishers?	Yes	
Is there a fire alarm system?	Yes	
Installation of emergency lighting	Yes	

Number and width of exits for Educational						
Floors	Number of exits		Width of exits			
			Stairs		Other components	
	Requested	Envisaged	Requested	Envisaged	Requested	Envisaged
I Floor	1	1			0.82	1.00

Number and width of exits and for Business Group						
Floors	Number of exits		Width of exits			
			Stairs		Other components	
	Requested	Envisaged	Requested	Envisaged	Requested	Envisaged
I Floor	1	1			0.82	0.90

Number and width of exits and for Gathering Group-2						
Floors	Number of exits		Width of exits			
			Stairs		Other components	
	Requested	Envisaged	Requested	Envisaged	Requested	Envisaged
I Floor	1	1			0.82	1.00

Number and width of exits for Gathering Group-3						
Floors	Number of exits		Width of exits			
			Stairs		Other components	
	Requested	Envisaged	Requested	Envisaged	Requested	Envisaged
I Floor	1	2			0.82	1.50

Number and width of exits for Wharehouse Group-2						
Floors	Number of exits		gasasvlelis sigane			
			Stairs		Other components	
	Requested	Envisaged	Requested	Envisaged	Requested	Envisaged
I Floor	1	1			0.82	1.00

Number of fixtures of water supply systems						
Calculation of load of occupation						
Fixtures		Requested			Envisaged	
		I	II	III	I	II
Toilet bowl		12			14	
Toilet wahs basin		12			16	
Bathroom/shouwer room		2			3	
Fountain for drinking water		-			-	
Service wash basin		1			9	

Architechtrual  
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Stage:  
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Analysys of  
Compliance of  
the building to  
the safety rules

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Load of Occupation, Access and Exit



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Occupation  
load, access  
and exits

ბ. ქანთარია  
B. Qantaria

ა. გერგედავა  
A. Gergedava

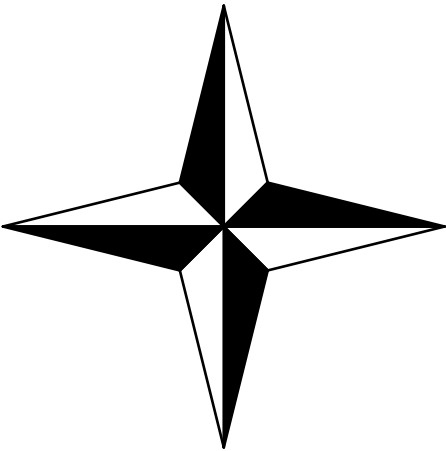
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Topographic Plan

N



Architectural  
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Stage:  
Architectural project

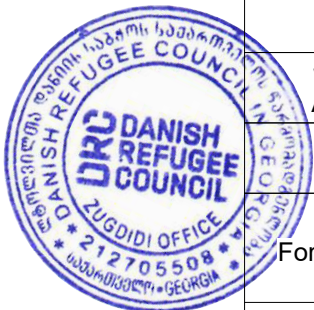
Topographic  
plan

ბ. ქანთარია  
B. Qantaria

ა. გერგელავა  
A. Gergedava

Format A - 2

Page	Pages
10	28

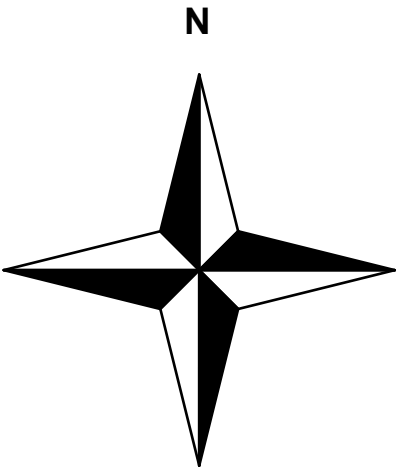








Territory Marking



Cadastral border

Cadastral border

Outline of teh building

682.23 m²

18.5°

6.53

23.64

6.53

8

7

6

5

4

3

2

1

6.00

6.00

3.00

3.00

3.00

6.00

6.00

4.78

A

B

C

D

E

3.00

6.00

4.80

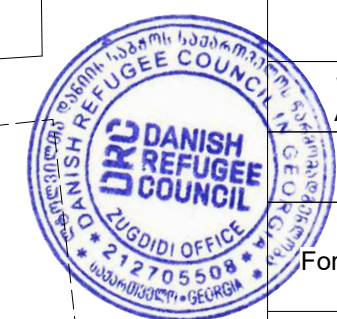
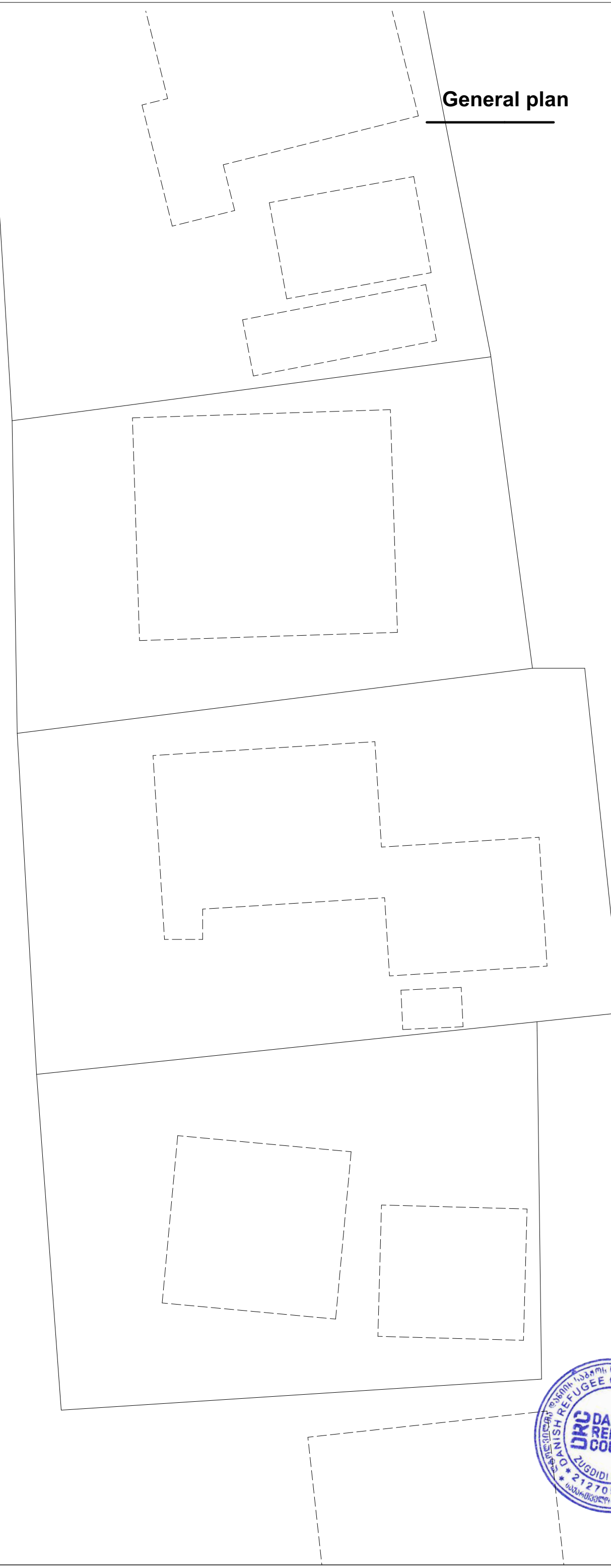
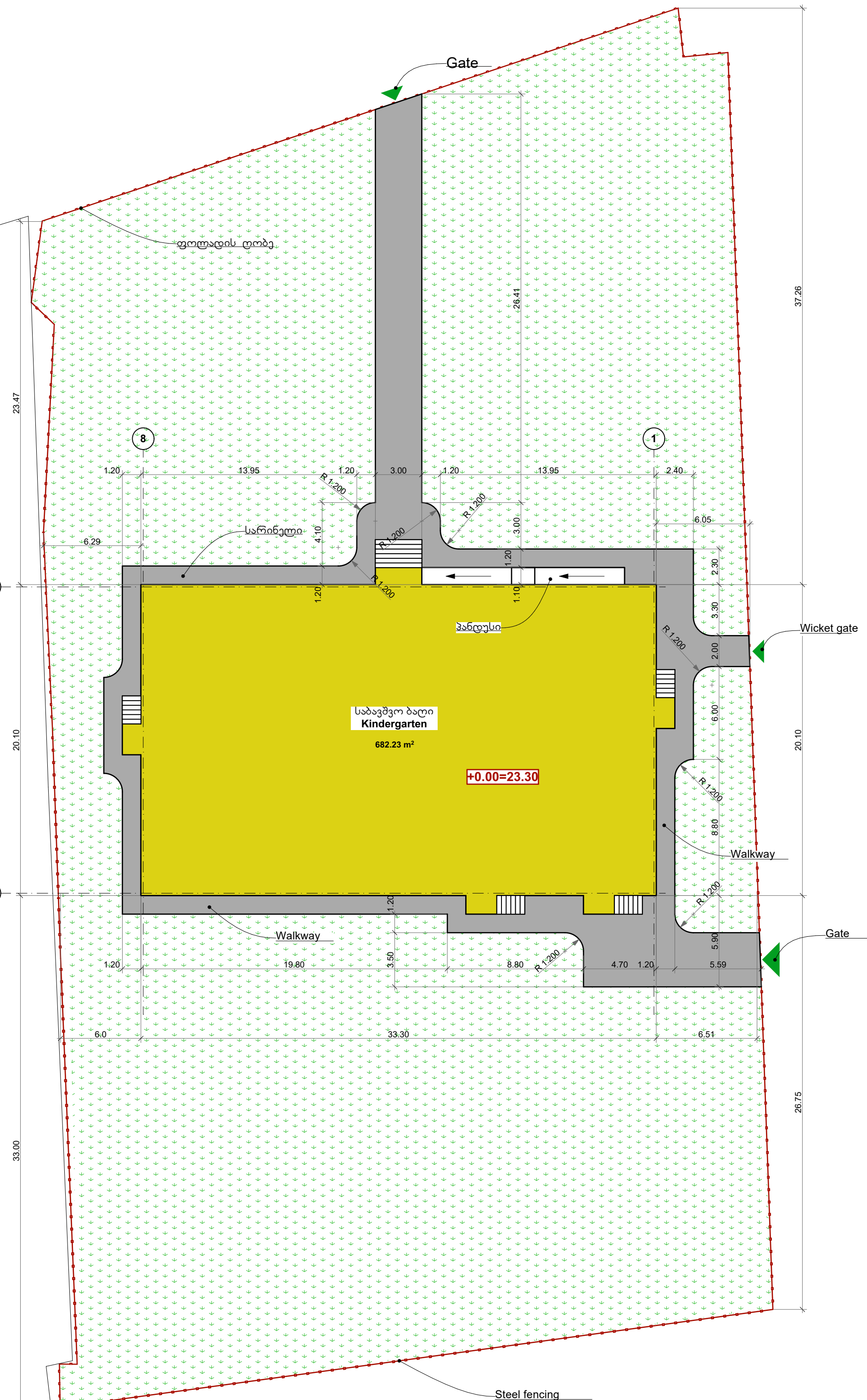
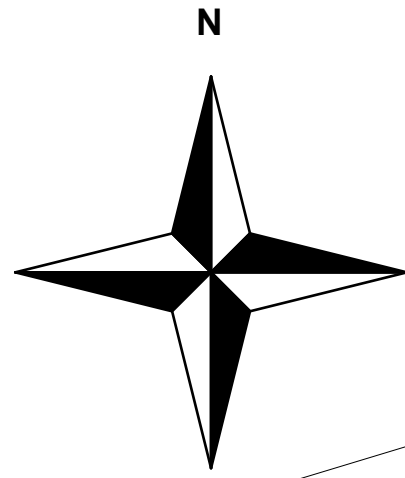
6.00

33.24

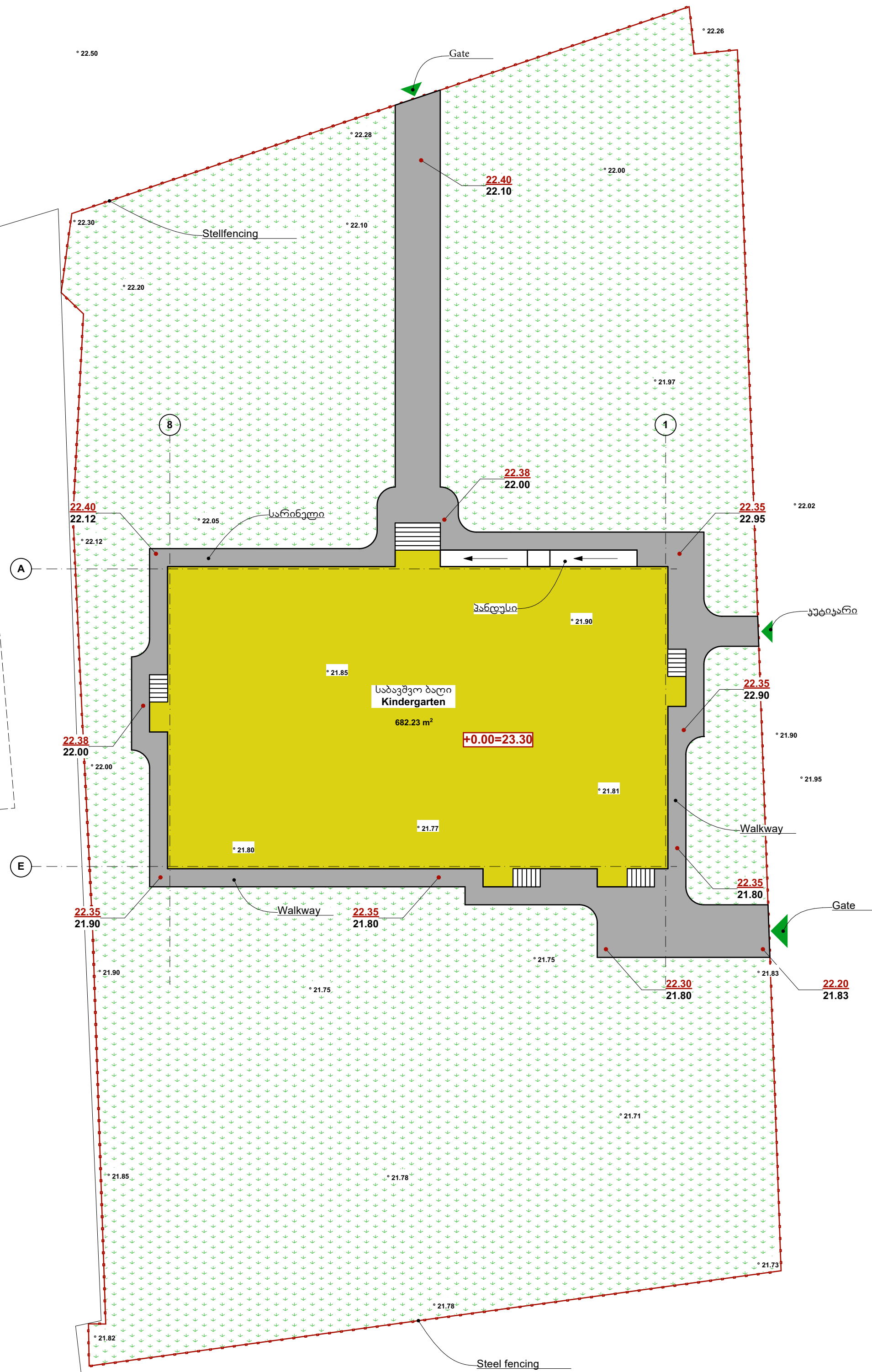
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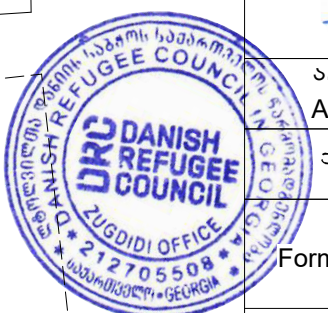




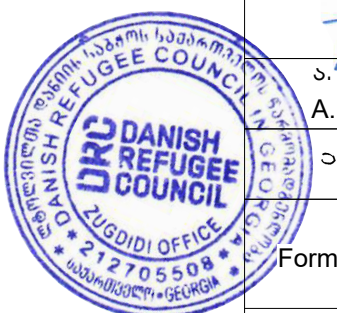
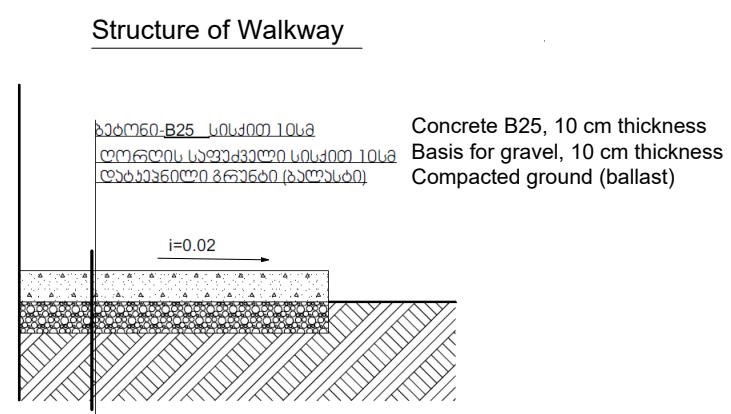
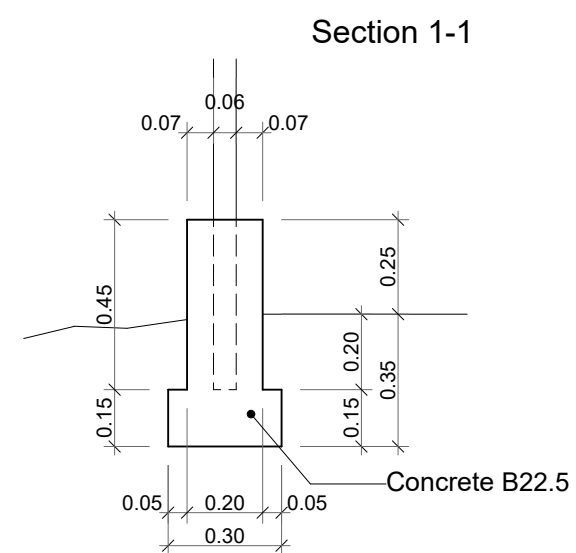
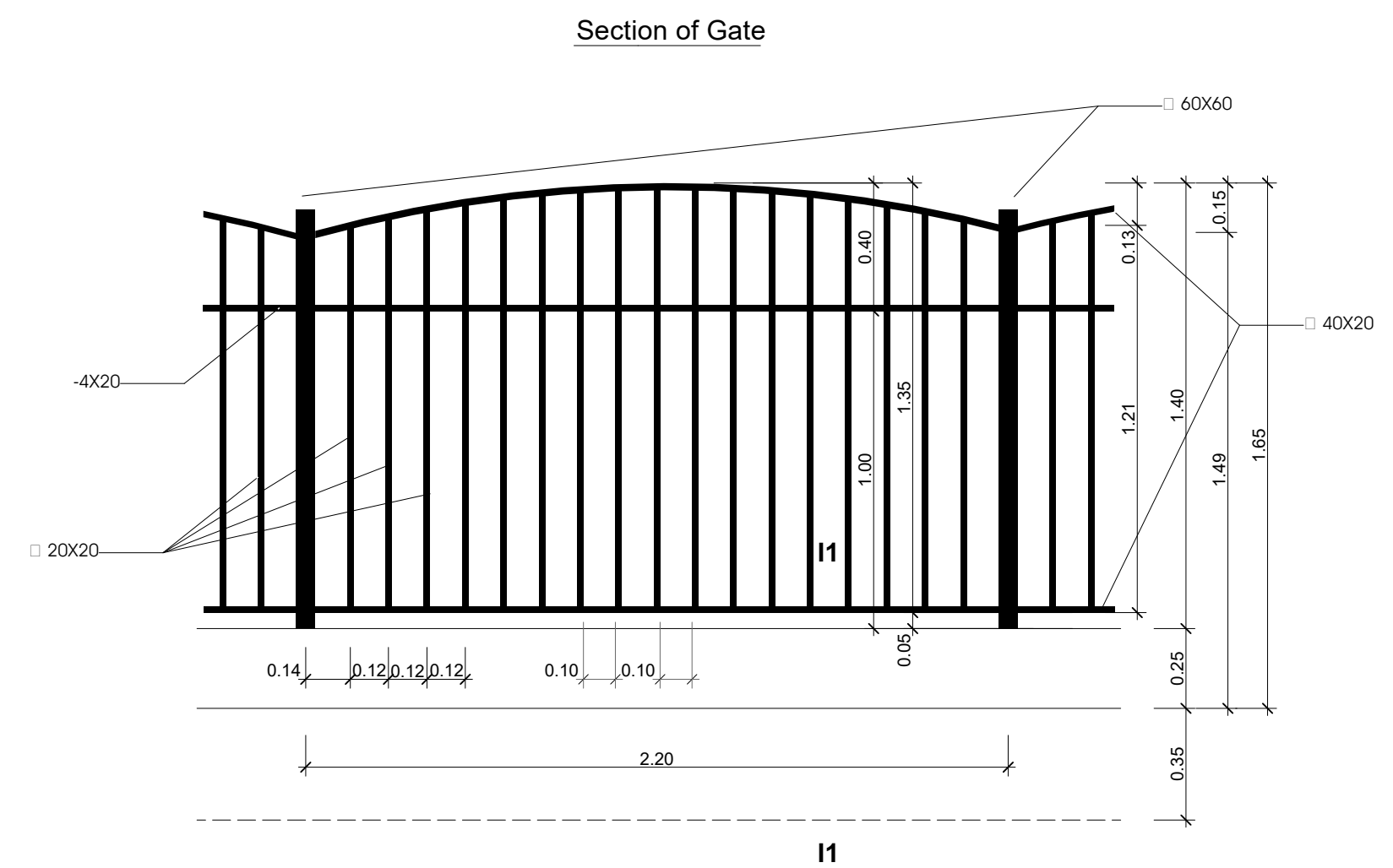
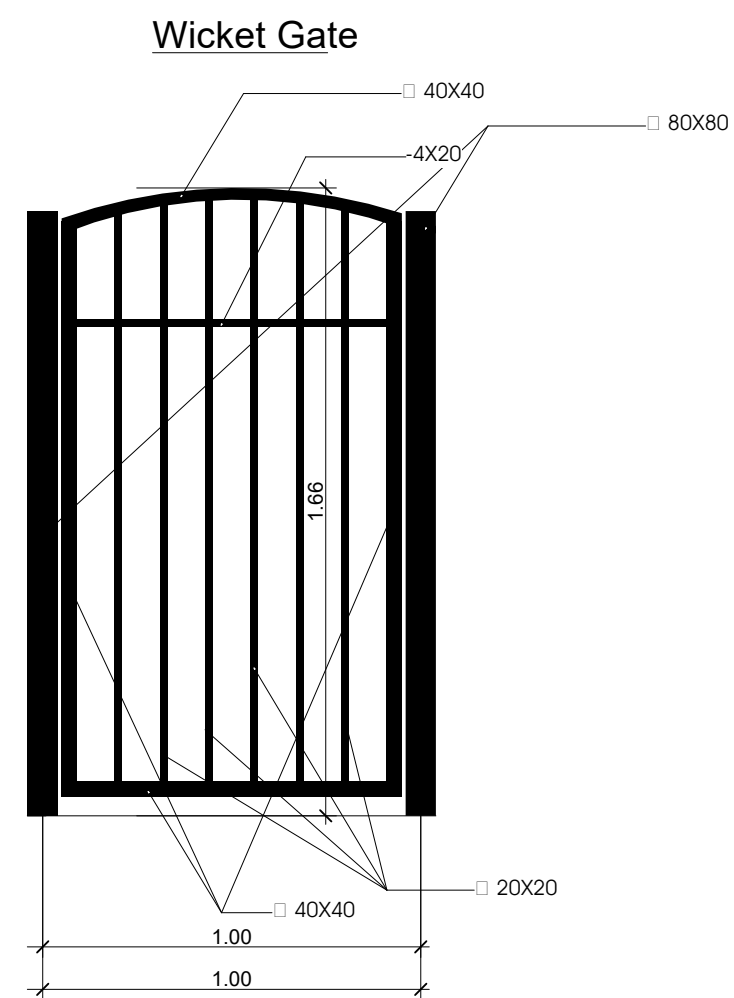
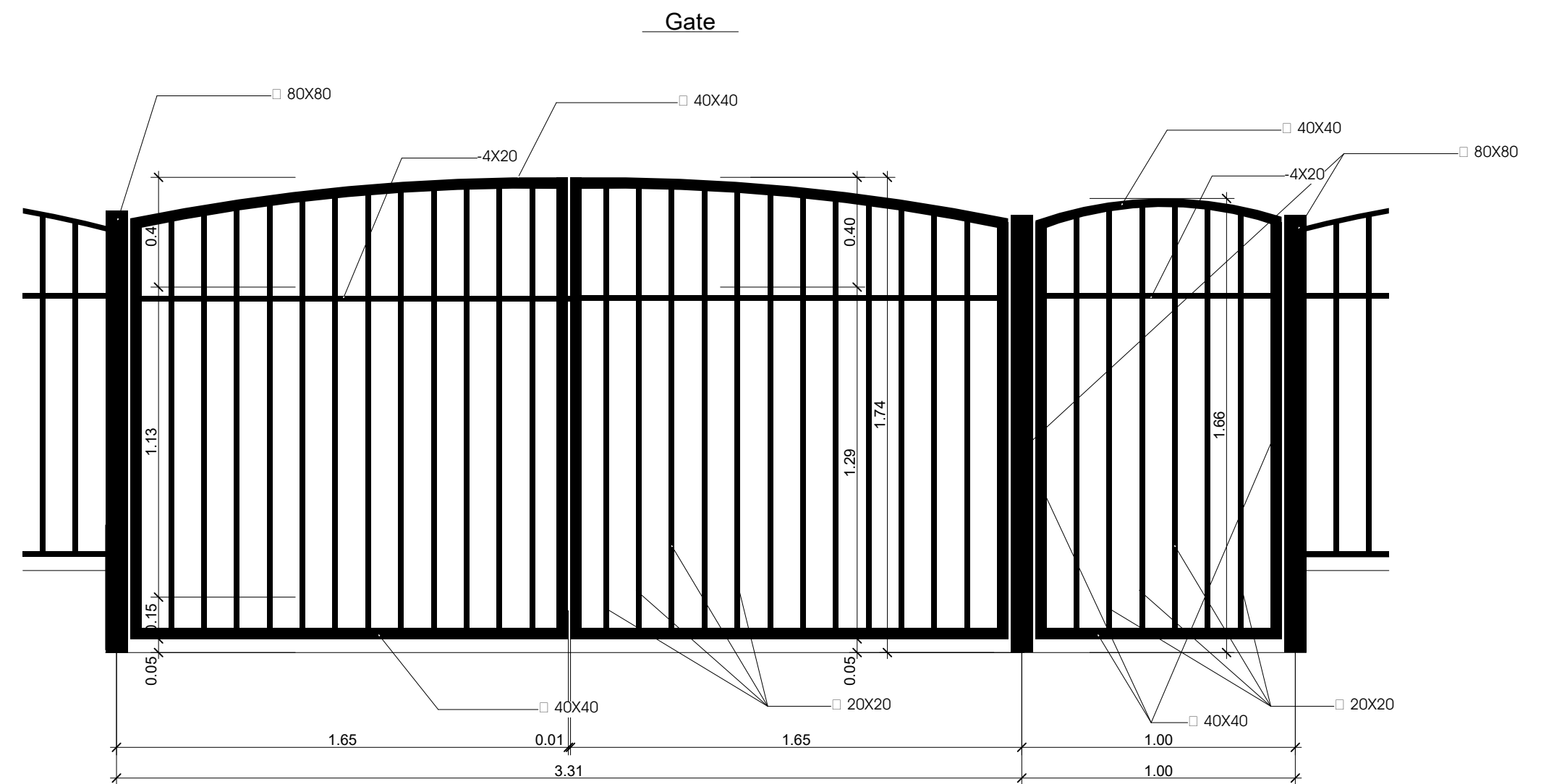
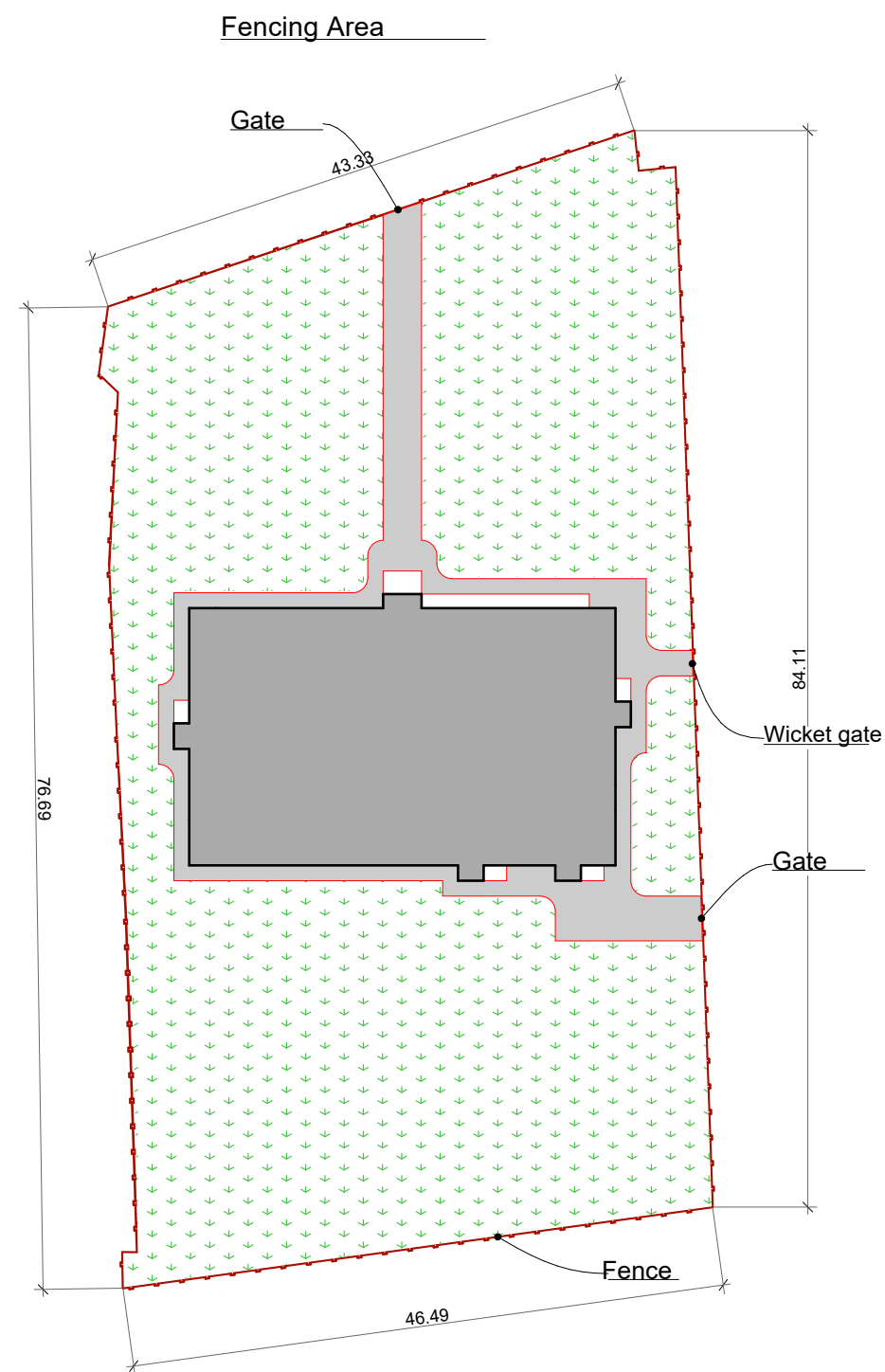




**Vertical Layout**

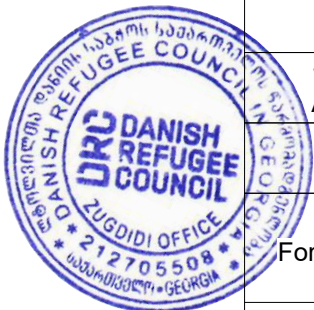




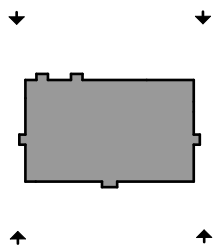




1. ჯგუფის ოთახი	52.51 m2	1. Group room
2. საძინებელი	51.03 m2	2. Bedroom
3. გასახლდელი	17.7 m2	3. Wardrobe
4. სანკანძი	15.73 m2	4. WC
5. ბუფეტი	3.98 m2	5. Buffet
6. ჯგუფის ოთახი	50.45 m2	6. Group room
7. გასახლდელი	17.7 m2	7. Wardrobe
8. სანკანძი	3.99 m2	8. WC
9. სანკანძი	4.86 m2	9. WC
10. სანკანძი	4.86 m2	10. WC
11. ბუფეტი	4.05 m2	11. Buffet
12. ჯგუფის ოთახი	52.52 m2	12. Group room
13. გასახლდელი	17.72 m2	13. Wardrobe
14. სანკანძი	4.35 m2	14. WC
15. სანკანძი ბიჭების	5 m2	15. WC
16. სანკანძი გოგონების	5.16 m2	16. WC
17. ბუფეტი	3.84 m2	17. Buffet
18. ბალის დირექტორი	12.6 m2	18. Manager
19. მეთოდური კაბინეტი	10.92 m2	19. Staff room
20. პერსონალის ოთახი	7.42 m2	20. Staff room
21. სანკანძი	2.1 m2	21. WC
22. სანკანძი	2.1 m2	22. WC
23. საკუჭნაო	8.06 m2	23. Store
24. ექიმის ოთახი	11.45 m2	24. Medical office
25. სანკანძი	1.62 m2	25. WC
26. სანკანძი მშპ პერსონალის	4.5 m2	26. WC
27. გასახლდელი სანკანძით	7.59 m2	27. Staff wardrobe
28. საკონცერტო დარბაზი	69.62 m2	28. Concert hall
29. პოლიტ დერეფანი	72.42 m2	29. Hall with corridor
30. აივანი	26.1 m2	30. Balcony
31. სამზარეულო	19.33 m2	31. Kitchen
32. საკვების გადამს ზონა	5.04 m2	32. Distribution room
33. სამზარეულოს სამრეცხაო	12.8 m2	33. Washing of kitchen
34. მშრალი პროდუქტების საწყობი	3.67 m2	34. Dry food warehouse
35. ბოსტნულის საწყობი	3.15 m2	35. Vegetable warehouse
36. სამრეცხაო-საუბრეუბელი	10.14 m2	36. Washing and ironing room
37. სუფთა თეთრეულის საწყობი	4.08 m2	37. Clean laundry warehouse
38. საქაბე მუერნეობა	4.78 m2	38. Boiler room
39. კიბის ბაქანი	3.3 m2	39. Stairway
40. კიბის ბაქანი	2.4 m2	40. Stairway
41. კიბის ბაქანი	2.4 m2	41. Stairway
42. კიბის ბაქანი	2.4 m2	42. Stairway
43. კიბის ბაქანი	2.4 m2	43. Stairway
44. პანდუსი		44. Pandus
საერთო ფართი	627.84 m2	Total area



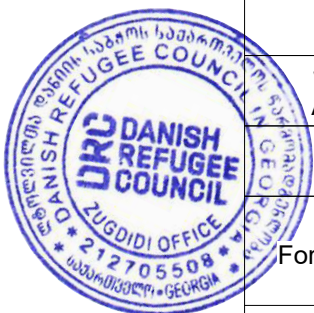
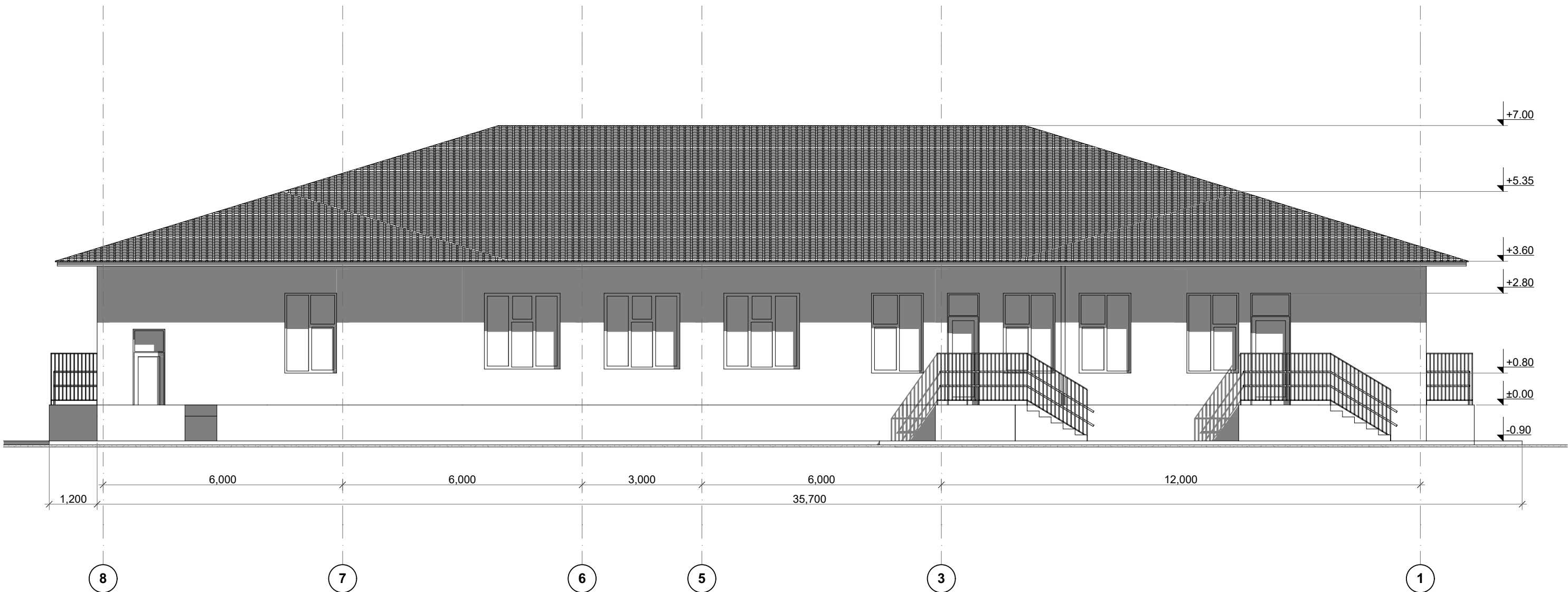




Facade 1-8

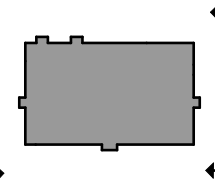


Facade 8-1





Architectural  
Project  
Typical  
Kindergarten  
for three groups  
Mshvidobis  
street, 306,  
Senaki



Project address:  
Georgia,  
Snaki

Stage:  
Architectural project

Facades

ბ. ქანთარია  
B. Qantaria

ა. გერგედავა  
A. Gergedava

ბ. ქანთარია  
B. Qantaria

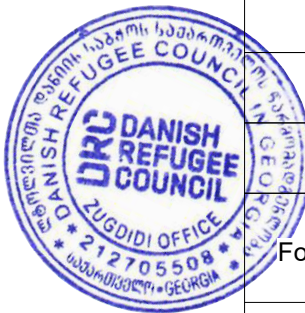
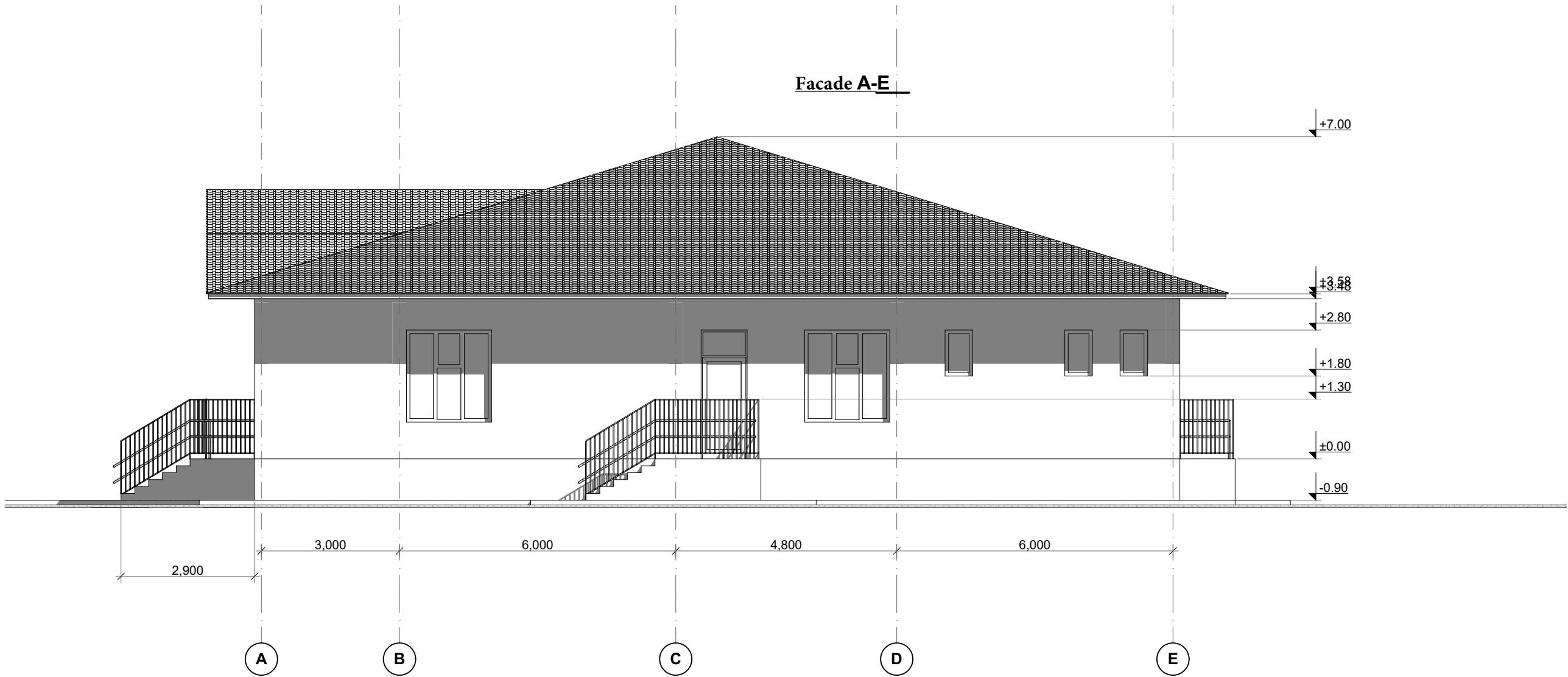
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Facade E-A



Facade A-E





Textures on Renders



Architectural  
Project  
Typical  
Kindergarten  
for three groups  
Mshvidobis  
street, 306,  
Senaki

Project address:  
Georgia,  
Snaki

Stage:  
Architectural project

Textures of  
Rendering

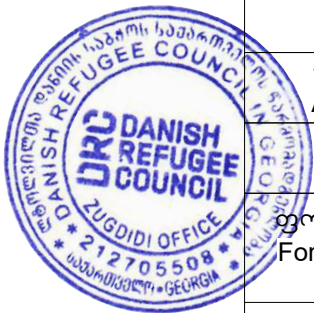
ბ. ჟანთარია  
B. Qantaria

ა. გერგედავა  
A. Gergedava

ფორმატი  
Format A - 2

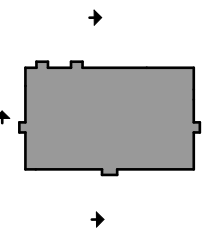
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Architectural  
Project  
Typical  
Kindergarten  
for three groups  
Mshvidobis  
street, 306,  
Senaki



Project address:  
Georgia,  
Snaki

Stage:  
Architectural project

Section A-A  
Section B-B

ბ. ქანთარია  
B. Qantaria

ა. გერგედავა  
A. Gergedava

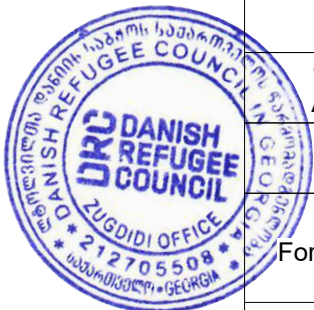
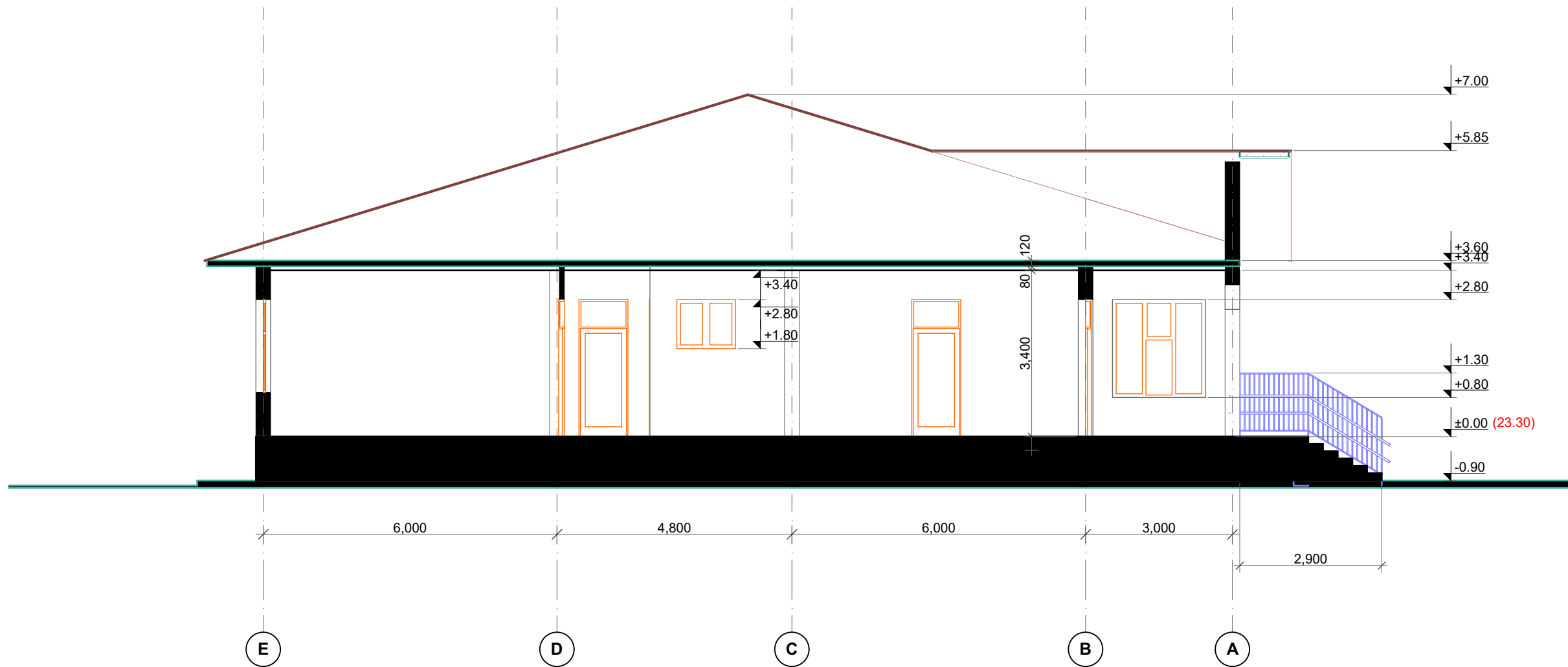
ბ. ქანთარია  
B. Qantaria

Format A - 2

Section A-A

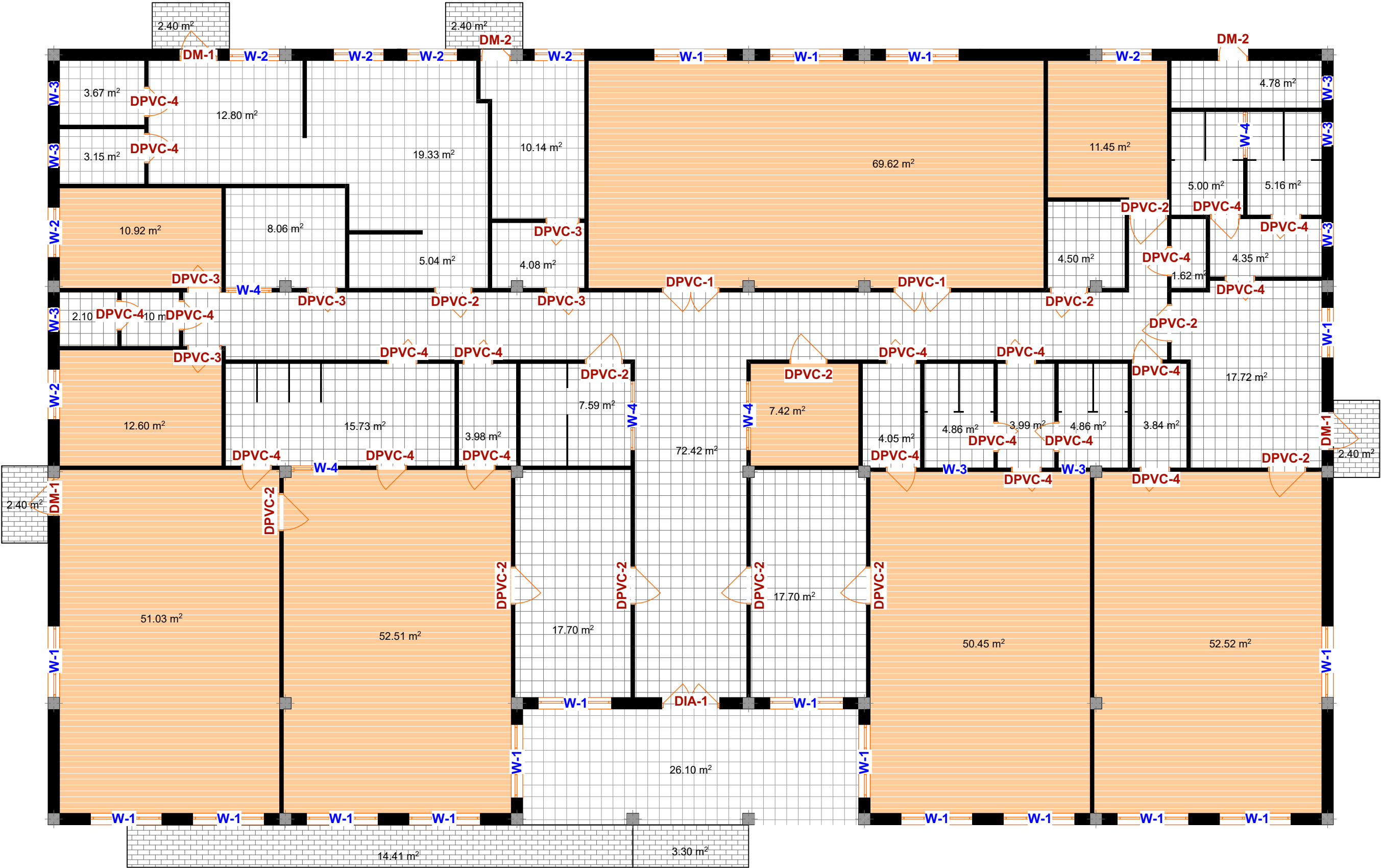


Section B-B

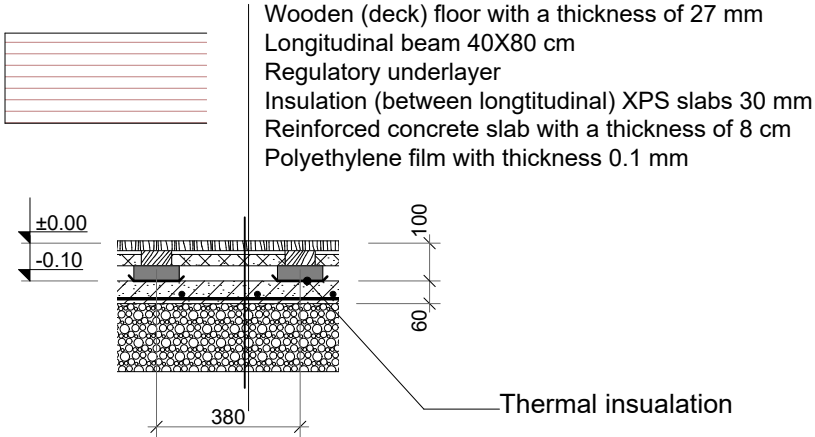




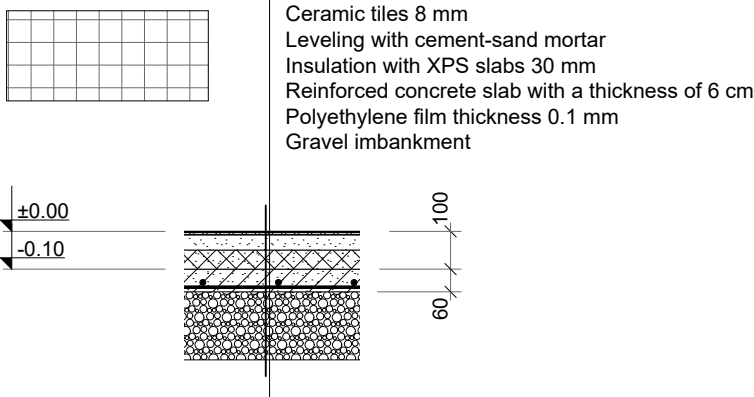
Types of floors, doors, and windows on the plan



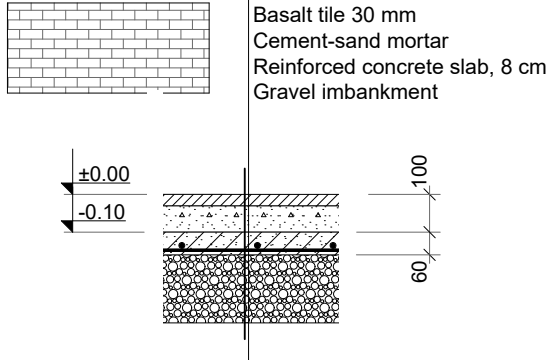
Wooden (deck) floor



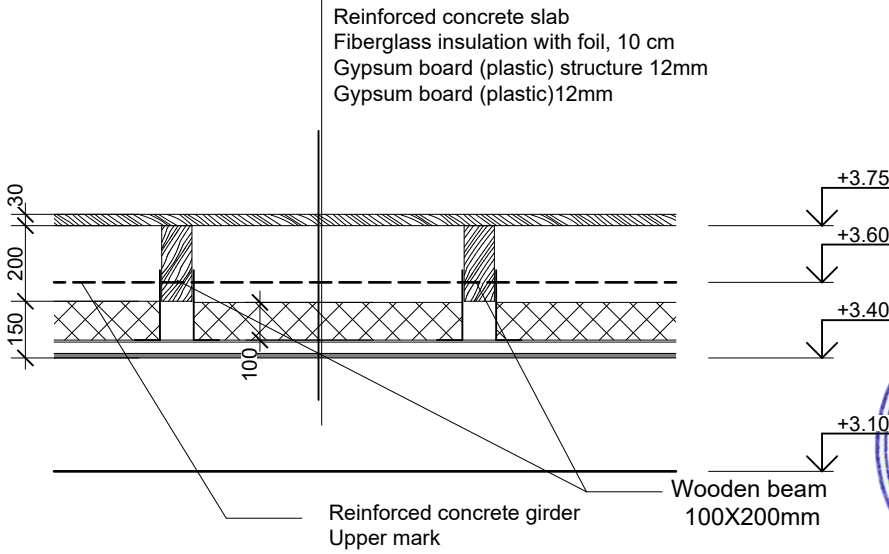
Ceramic (tiled ) floor



Basalt Floor

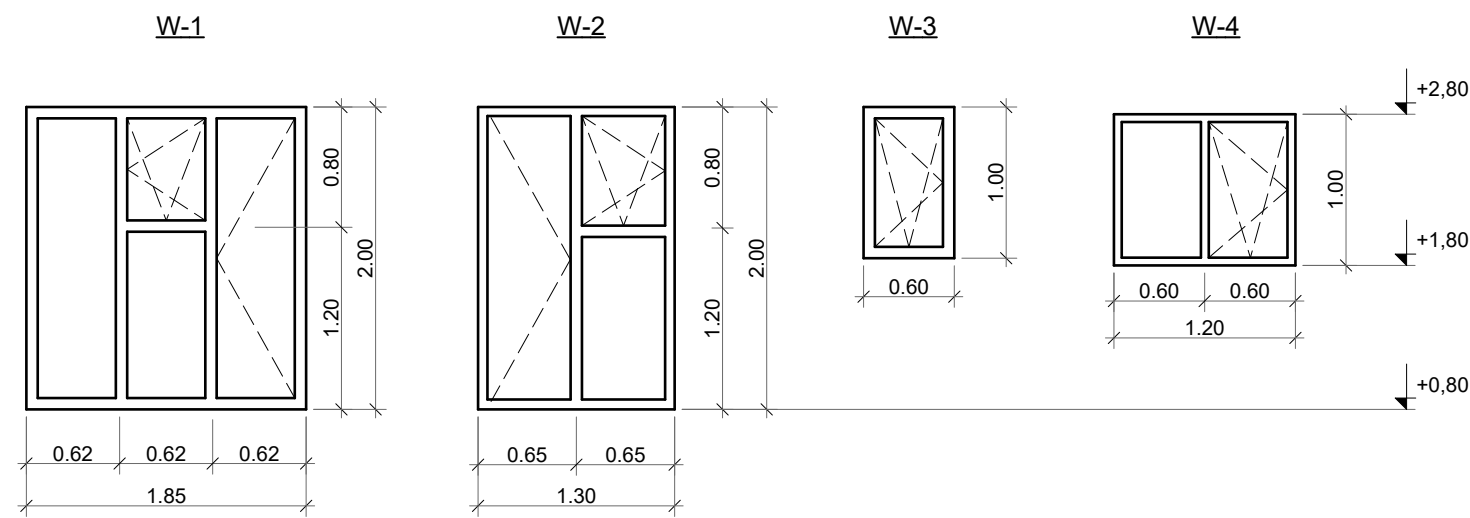


Ceiling Structure

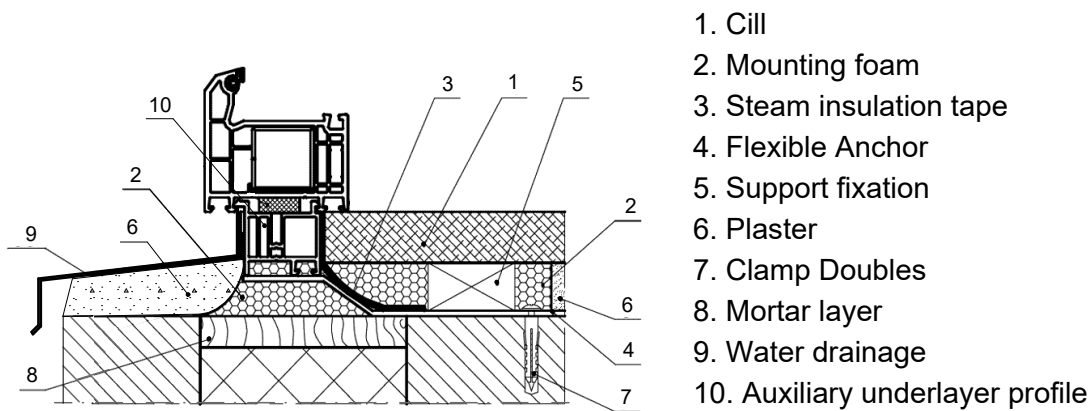




PVC WINDOWS



Window Unit



Specification

მარკა Mark	რაოდენობა Quantity	სიგანე mm	სიმაღლე mm	m2	Σ m2
DIA-1	1	1500	2800	4.2	4.2
DM-1	3	1000	2800	2.8	8.4
DM-2	2	900	2800	2.52	5.04
DPVC-1	2	1500	2800	4.2	8.4
DPVC-2	12	1000	2800	2.8	33.6
DPVC-3	5	900	2800	2.52	12.6
DPVC-4	21	800	2800	2.24	47.04
W-1	18	1850	2000	3.7	66.6
W-2	7	1300	2000	2.6	18.2
W-3	8	600	1000	0.6	4.8
W-4	5	1200	1000	1.2	6

Architectural  
Project  
Typical  
Kindergarten  
for three groups  
Mshvidobis  
street, 306,  
Senaki

Project address:  
Georgia,  
Snaki

Stage:  
Architectural project

Windows and  
Doors

ბ. ქანთარია  
B. Qantaria

ა. გერგელავა  
A. Gergedava

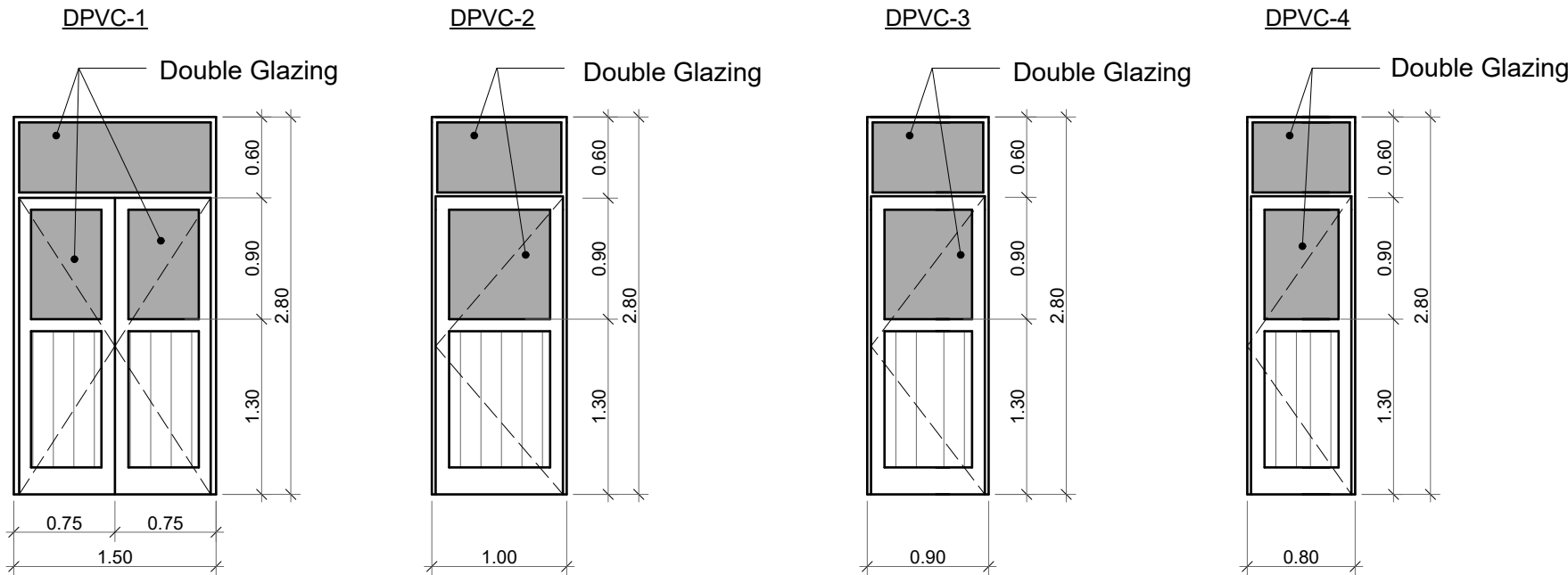
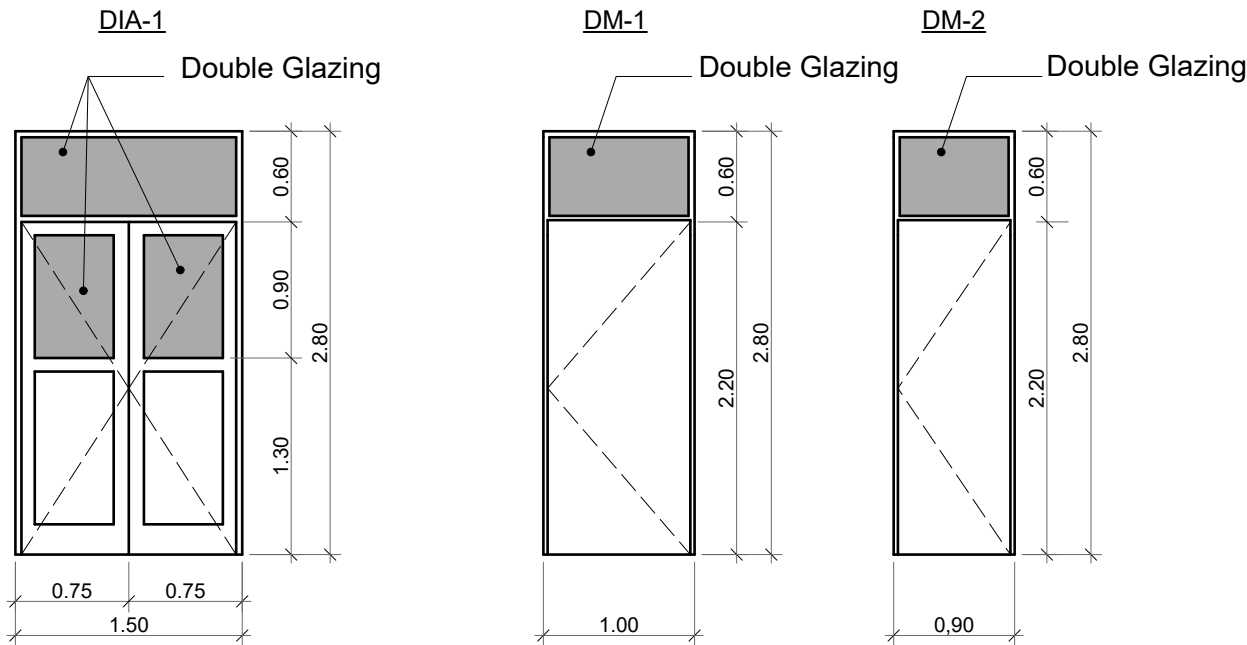
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Format A - 2

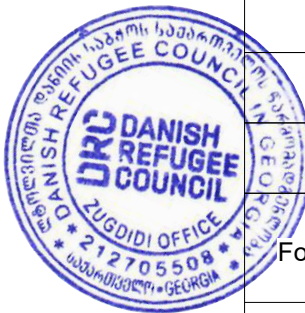
Iso-aluminum Door

Steel Door with Double  
Coating and Insulation

PVC Internal Doors



Note:  
Door glazing should be darkened for administrative rooms and  
bathrooms for adults.





Technical drawing of a roof structure showing a grid of beams and columns. The drawing includes dimensions for height (1,300, 450, 350, 400, 100) and width (40, 1,940, 40). Labels indicate beam sizes: 20X40, 40X40, 15X15, and 20X40. The structure is divided into three vertical sections by two columns.

The drawing consists of two parts: a side elevation on the left and a top-down view on the right.

**Side Elevation (Left):** This view shows the vertical profile of the railing. It includes a handrail with a diameter of 40 mm, a vertical post with a diameter of 20x40 mm, and a base rail with a diameter of 40 mm. The total height of the railing is 1,300 mm. The vertical post is positioned 20 mm from the wall. The base rail is 20 mm from the wall. The railing is shown in a sectioned view, indicating its internal structure.

**Top-down View (Right):** This view shows the railing from above, illustrating the layout of the handrail, vertical posts, and base rail. The railing is shown in a sectioned view, indicating its internal structure. The railing is shown in a sectioned view, indicating its internal structure. The railing is shown in a sectioned view, indicating its internal structure.

Technical drawing of a three-door cabinet. The main view shows a front elevation of the cabinet with three doors. The height of the cabinet is indicated as  $\approx 2.00$ . Callouts provide details of the components:

- Top left: Detail of the hinge and locking mechanism on the door.
- Top middle: Detail of the hinge and locking mechanism on the door.
- Top right: Detail of the cylindrical component, likely a lock or handle.
- Bottom: Detail of the base component, showing a vertical support and a horizontal base plate.

Technical drawing of a door assembly. The central image shows a white door in a grey frame. A vertical dimension line on the left side of the door is labeled  $\approx 2.00$ . Six callout circles are connected to specific parts of the door and frame:

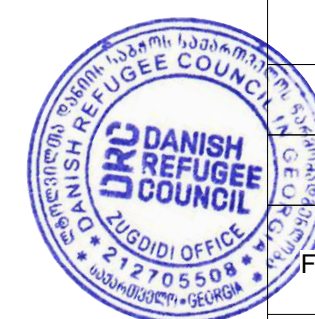
- Top-left: A circular callout showing a white door handle with a black grip.
- Top-right: A circular callout showing a white door pull mechanism and a small white rectangular component.
- Bottom-left: A circular callout showing a white door pull mechanism.
- Bottom-right: A circular callout showing a white L-shaped corner bracket and two small screws.

Technical drawing of a window frame assembly. The drawing shows a cross-section of the frame with dimensions in millimeters. The frame is composed of a stainless metal fitting and a damp-proof MDF board (18 mm thick). The dimensions are as follows:

- Overall width: 1,000 mm
- Overall height: 1,200 mm
- Top horizontal dimensions: 500 mm (left), 500 mm (right)
- Right vertical dimensions: 500 mm (top), 550 mm (bottom)
- Bottom horizontal dimensions: 200 mm (left), 600 mm (center), 200 mm (right)
- Left vertical dimensions: 150 mm (top), 1,050 mm (middle), 100 mm (bottom)
- Internal vertical dimensions: 850 mm (top), 100 mm (bottom)

Labels:

- Damp-proof MDF board 18 mm
- Stainless metal fitting





Technological Plan of the Rooms



Architectural  
Project  
Typical  
Kindergarten  
for three groups  
Mshvidobis  
street, 306,  
Senaki

Project address:  
Georgia,  
Snaki

Stage:  
Architectural project

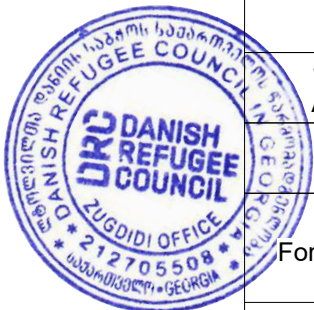
Technological  
Plan of the rooms

ბ. ქანთარია  
B. Qantaria

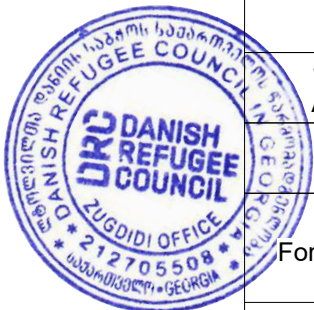
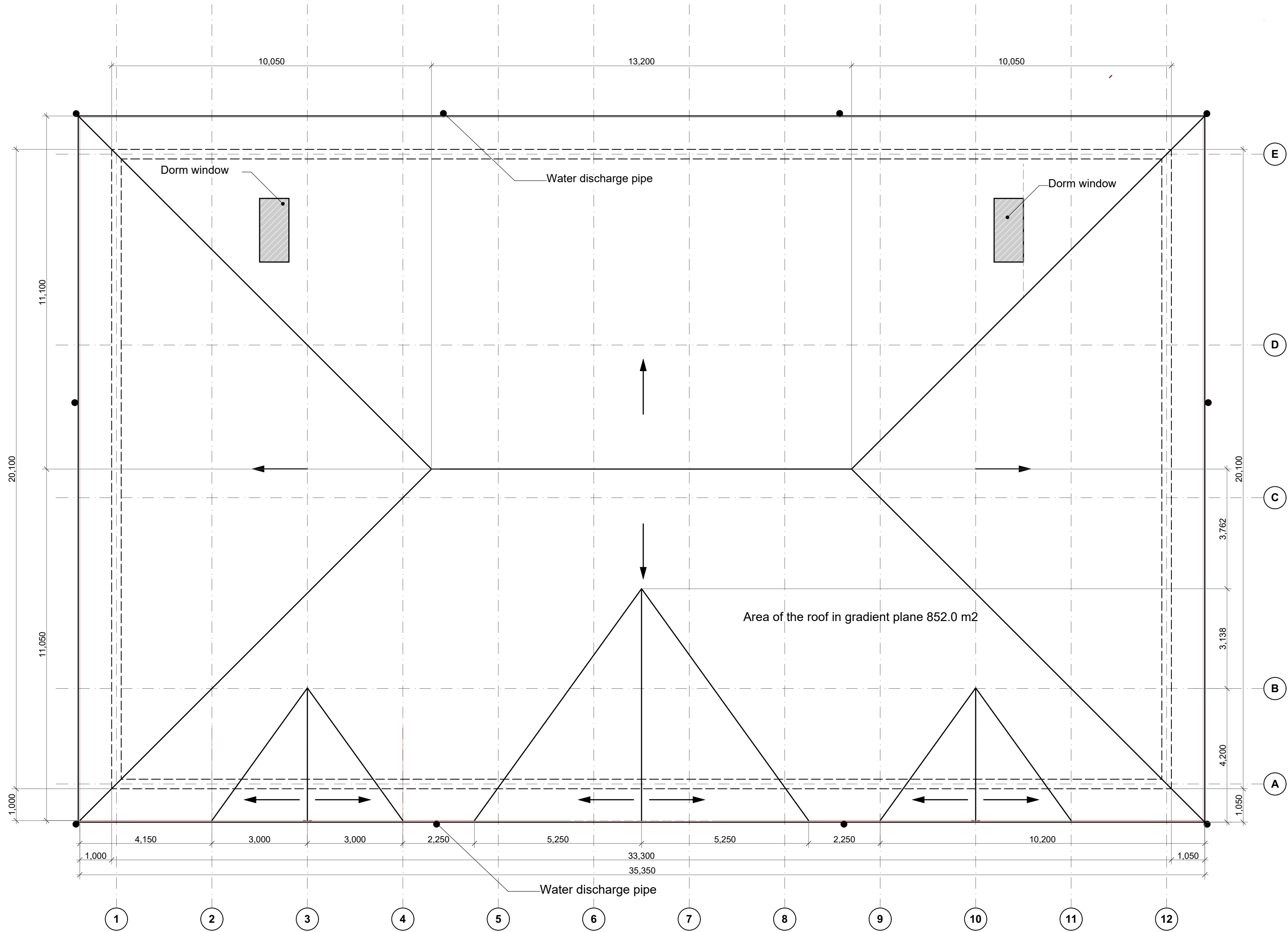
ა. გერგედავა  
A. Gergedava

Format A - 2

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Pages 28









Construction Organizing Project

Explanatory letter

The project for the organization of construction is elaborated in accordance with the decree of the Government of Georgia on the Rule on Issuance of a Construction Permit and the Conditions for Permit and the Construction Rules and Regulations SN. And sec. 3.01.01.-85 with regard to "Construction Organization". The project construction documents were the basis for the elaboration of the project organization.

Construction is permitted after the issuing of the construction permit by Municipality City Hall. Construction should be carried out following the technological cycles according to the calendar plan. It is inadmissible to deviate from approved design documentation solutions, and any changes made to the project must be agreed with the project authors.

Construction of all temporary electrical equipment and grids for construction shall be carried out under applicable electrical technical regulations and regulations, as well as safety equipment regulations.

Construction Conditions and Description of the Site

From the engineering-geological point of view, the construction site is in satisfactory condition; physicalgeological hazards are not observed (landslides, hailstones, etc.). Due to its location in the seismically active zone of the whole territory of Georgia, construction standards and regulations- "Sustainable Construction" (PN 01.01.09) apply throughout its territory to the design of residential, public and industrial buildings, as well as reconstruction, reinforcement, and restoration. Construction standards and regulations should be used in combination with other statutory documents in the field of construction. During construction, the construction standards and requirements of regulations approved by the Minister of Economic Development of Georgia shall be observed. The construction site is a square-shaped plot of land bounded by public zones to the street and and by the adjacent land on all sides. The project envisages the placement of a kindergarten building by the main facade to the North, to the street side, with main entrances to the East and North. The development and landscaping of the yard and arrangement of a playground and an arbor are planned as well as fencing. The planning solution of the building includes the placement of three groups of kindergarten. One of them will have a bedroom unit, while such a unit will not be for the two preschooler groups; the girls 'and boys' toilets in this group are separated. The building presented in the project is a one-storey stone building, the floor level of which is 1.0 meters above the ground (including the walkway).The first-floor mark 0.00 corresponds to the absolute mark of 23.30. The height of the floor of the building from the floor to the ceiling is 3.4 meters.The filling of the external walls is done with a reinforced masonry of small pumice blocks 30 cm thick. The bearing structure of the building is a complex reinforced concrete frame, reinforced concrete columns, a frame structure made of the monolithic reinforced concrete girder. The reinforced concrete columns on the external walls can be concreted in parallel with the masonry of the walls. Partitions are made of reinforced small wall pumice block with a thickness of 10 cm. Floors in bathrooms are finished with tile, and in the rooms with wooden planks (deck). Floor heating is done with XPS tiles, and ceiling insulation is done with glass fiber. Suspended ceilings in the bathrooms and kitchens are made of plastic, while in the rooms are made of gypsum boards.The bearing structure of the roof is made of wood, while the roofing is a painted metal sheet. The windows are made of double-glazed PVC profiles.The entrance doors are made of steel and iso-aluminum, with plastic in the bathrooms and wood in the rooms (so-called MDF). Exterior stairs and entryways are covered with basalt tiles. A concrete walkway and access paths are arranged around the building. The building will be provided with electricity, sewerage and water supply, as well as internal heating networks, which will be connected to the external main networks.

Technical indicators of the building:  
Number of floors - 1 floor  
The volume of the building is 4713 m3  
Out of them:  
On the surface of the land - 3758 m3  
Under the surface of the land - 955 m3  
Total area - 627.84 m2  
Before construction, the construction site should be enclosed in a temporary fence within the cadastral border. The vertical planning project for conducting surface water to the street involves installing a bulkhead yard, for which a concrete boundary wall is provided, where the metal panel fence will then be installed. Ready concrete should be supplied with a concrete pump, which can be installed in the northern as well as the southern part of the yard. According to the decree of theGovernment of Georgia, taking into account the characteristics of the class of building, the building belongs to class 3.

Construction Terms and Stages

The duration of the construction shall be determined in accordance with the construction standards and regulations 1.04.03-85 taking into account the purpose, number of floors and materials used in the building. The seismic coefficient for civil buildings in 8-9 high seismic areas is assumed K = 1.15. The terms of construction were determined based on actual material-technical conditions and capabilities. Duration of construction was 12 months, including 1 month for preparatory work.

The preparatory work consists of two stages:  
1. Preparatory work, which involves the disposal of garbage and solid waste, the installation of ballast imbankment, its ramming and the fencing of the construction site.  
2. Marking off the building and removal and marking off the key axles. Preparatory work includes both organizational activities and external and internal construction works on the site. The sequence of Construction Works:  
1) Land and building sub-foundation works.  
2) Arrangement of the building's foundation and basic construction system to zero.  
3) Installation of the main bearing and non-bearing structures of the floor of the building.  
4) Installation of the roof of the building  
5) Installation of doors and windows.  
6) Exterior finishing of the building.  
7) Internal finishing of the building (in parallel, electrical and other engineering networks, in particular, water supply and sewerage, heating system installation).  
8) Landscaping works.

Construction Site and Construction Safety Rules

Prior to the main construction works, the construction site and the surrounding area should be arranged. Construction site boundaries should usually fall within the cadastral boundaries of the land. After the ballast imbankment is laid, the construction site is fenced and the temporary buildings are arranged. Prior to the excavation works, the axes of the building should be marked off and removed from the perimeter of the building. Information banners perceived from public spaces should be placed on the construction site. Work on the construction site shall be organized in a way to ensure construction safety in accordance with Government Regulation # 6228.03.07, as well as the Construction Safety Rules and Construction Rules and Regulations III-4-80. The construction safety rules apply to construction under the permit site preparatory works and defines the security requirements while implementing the following works the construction site: organizing, construction machinery, technical equipment and tools in operation, electric and gaswelding, loading-unloading, insulation, the land, the foundations, roofing works, underground works, concrete and reinforced concrete, installation, demolition, and other construction works. All fire safety measures shall be complied with in accordance with the Construction Standards and Regulations 2.01.02-91 of the Fire-Safety Standards. Entrance to the construction site should be controlled and the possibility of unauthorized entry should be excluded. The enclosure in the public zone should be covered with a protective cover to ensure the safety of pedestrians. During darkness, the fencing should be equipped with signaling lamps or use materials or colors perceived in the dark. In the same manner, the area of demolishing of structures must be fenced. A responsible person for adhering to safety rules should be assigned to the construction site. Workers and engineers must wear helmets, and special work must be performed using appropriate equipment.

First aid facilities should be provided on the construction site. Materials, structures and other equipment should be stored and disposed of following the standards to allow them to fall, settle, slideand expand. Dusty materials should be stored in storage areas. During loading and unloading operations precautions shall be taken to prevent their scattering and overflow. Harmful or explosive solvents should be stored in a tightly sealed container. Temporary structures should be provided on the south side of the building to keep up to the work hygienic conditions and proper organization of labor, which must be removed immediately before the commencement of the site improvement works.

List of Covert Works Acts

Upon completion of the major construction work, before the start of the next stage of works which can cause its concealing, the covert works act should be prepared by the construction developer, following the site investigation before its completion.

List of the main construction and installation works, which should be followed by a covert works act:

- Marking off building axes.
- Accepting a trench arranged for foundations
- Arrangement of a reinforced concrete foundation
- Arrangement of reinforced concrete inserts and walls
- Examine the waterproofing of foundation, basement walls, and roofing
- Connecting walls to columns.
- Accepting development works.

Environment Protection and Ecology

During the works on the construction site, it is necessary to implement measures for the protection of nature and air pollution in accordance with the applicable legislative acts and normative documents. It is forbidden to cut perennial trees and plants in the construction zone without the permission of the Environment Protection Agency. It is prohibited to wash concrete or cement solution pipes in existing sewage manholes or to dump them with construction debris. If construction or reconstruction is expected to spread dust, the building should be covered with a curtain or work should be carried out indoors. When transporting loose construction debris, the surface must be soaked or covered with a protective coating after loading it into the car body. Before leaving the construction site, tires need to be cleaned to prevent contamination of city streets

Recommended construction machinery-tools, vehicles

List of technical means  
Excavator, with capacity of 0.2 m3  
Road rammer  
Lift crane  
Auto-damper  
Vehicle with body  
Special motor vehicle with trailer  
other large materials  
Portable compressor  
An in-depth vibrator  
Surface vibrator  
Welding plant  
Concrete mixer  
Concrete pump with conveyor  
Multipurpose electro-pneumatic unit

List of Works  
Land works  
Yard development  
Various works  
Ground removal, delivery of inert materials  
Goods delivery  
Transportation of reinforced concrete and  
  
Air supply  
Concrete works  
Concrete mortars  
Welding Works  
Mortar preparation  
Concrete works  
Construction and Special Works



Architectural Project Typical Kindergarten for three groups Mshvidobis street, 306, Senaki

Project address:  
Georgia, Snaki

Stage:  
Architectural project

Construction Organizing Project

ბ. ჯანთარია  
B. Qantaria

ა. გერგელავა  
A. Gergedava

ა. გერგელავა  
A. Gergedava

Format A - 2

Note:  
It is possible to use modern equipment with the same parameters, given the data of the existing technical facilities.

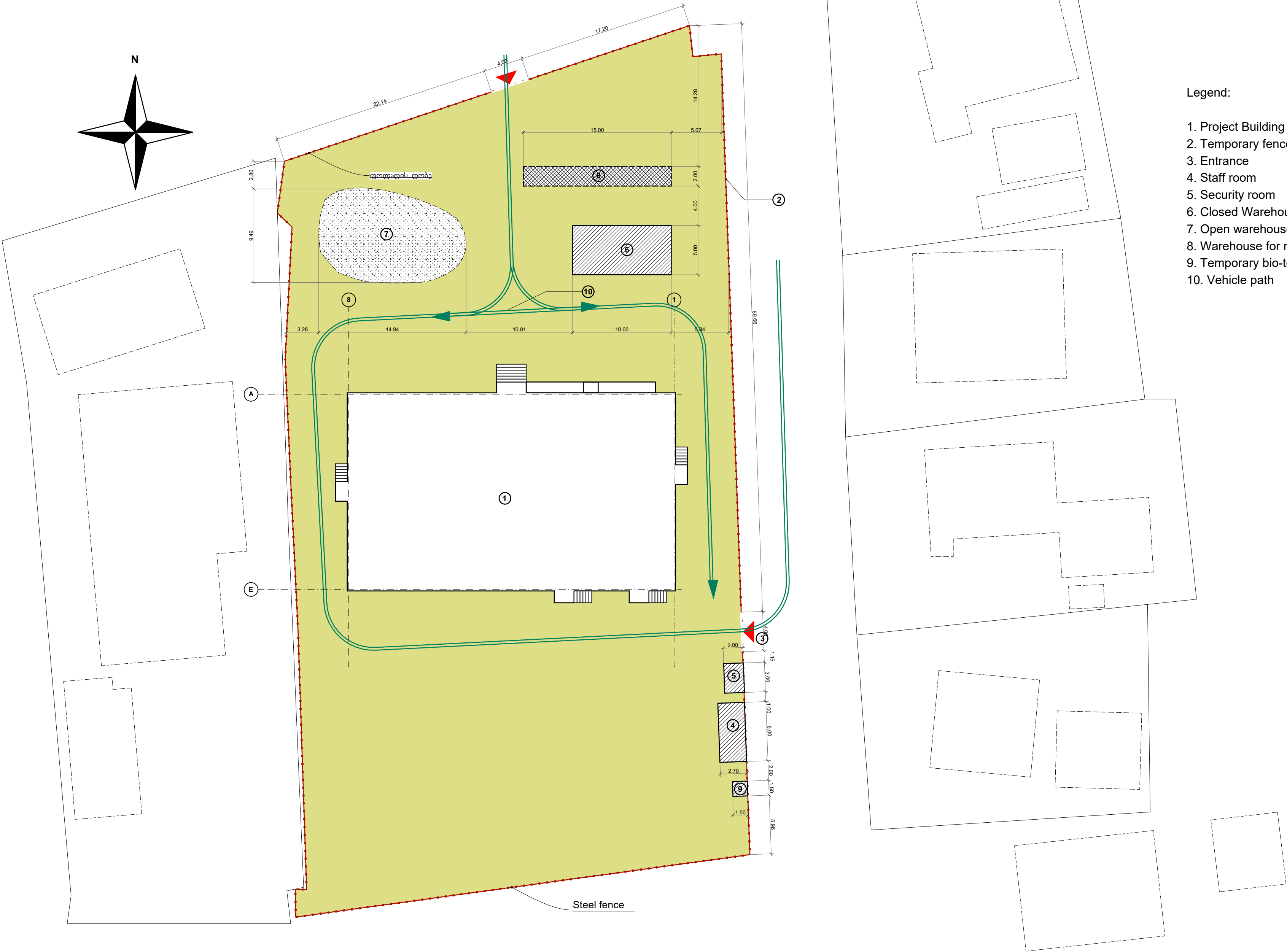




Constuction General Plan

Legend:

- 1. Project Building
- 2. Temporary fence
- 3. Entrance
- 4. Staff room
- 5. Security room
- 6. Closed Warehouse
- 7. Open warehouse for inert materials
- 8. Warehouse for reinforcement
- 9. Temporary bio-toilet
- 10. Vehicle path





Architectural  
Project  
Typical  
Kindergarten  
for three groups  
Mshvidobis  
street, 306,  
Senaki

Time Schedule of the Construction

	12 months																																		
	I			II			III			IV			V			VI			VII			VIII			IX			X			XI			XII	
1. Preparatory wor																																			
2. Arrangement of Imbankement on the territo																																			
3. Foundation wor																																			
4. Basement wor																																			
5. Floor concreti																																			
6. Construction of walls colum																																			
7. Concreting of reinforced concrete sla																																			
8. Roofing of the buildi																																			
9. Insatllation of windows and doo																																			
10. Wall plaster																																			
11. Finishing wo																																			
12. Elecric installation wo																																			
13. Sanitary-engineering wo																																			
14. Yard development wo																																			
15. Cleaning of the territ																																			

Project address:  
Georgia,  
Snaki

Stage:  
Architectural project

Time Schedule  
of Construction

ბ. ქანთარია  
B. Qantaria

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A. Gergedava

Format A - 2

