

Architectural Project

**Rehabilitation of Kindergarten #1
in Zugdidi Town**



Rendering



Rehabilitation of
Kindergarten #1
in Zugdidi Town

Project address:

Georgia,
Zugdidi

Stage:
Architectural project

Rendering

ბ. ჯანთარია
B. Qantaria

ა. გერგელავა
A. Gergedava

სტრუქტურული
ფორმატი
Format A - 3



Explanatory Letter

The building of Kindergarten # 1 in Zugdidi is a two-storey stone capital building. The bearing walls are made of brick, the floor decks are made of reinforced concrete hollow slabs, the roof is multi-sloped, made of tin.

The main bearing structures of the building are in good condition.

The walls are not cracked from the settlements, the floor slabs do not need to be replaced, the foundation is in good condition. The building is subject to rehabilitation.

The project envisages partial dismantling of the existing walls of the building, in particular the existing partitions and apertures, as well as dismantling of new partitions and built-up apertures and installation of new partitions according to the new plans.

Windows and WC doors are made of white PVC profiles with double glazing. The windows have fan windows. The extra doors are made of metal and PVC, while the internal doors are made entirely of PVC.

Ceramic tiles are laid on the floors in bathrooms, kitchens, stairwells, balconies, and corridors. Laminate flooring is provided in the offices, bedrooms, common rooms and music halls.

Existing concrete stair steps will be replaced with new ones.

The facade of the building is plastered on metal lath, processed, and painted with waterproof paint.

The sloped roof is replaced and made of wood and painted profiled tin.

There are walkways and concrete paths around the building, and a ramp for people with disabilities.

New railings will be installed on the balconies and stairs of the building in accordance with modern standards.

The project envisages the complete rehabilitation of electricity supply and plumbing systems, as well as the installation of a new central heating system.

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Explanatory
Note

ბ. ჯანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava

ფორმატი
Format A - 3

Page	Pages
3	46





მიწის (უძრავი ქონების) საკადასტრო კოდი **N 43.31.73.027**

ამონაწერი საჯარო რეესტრიდან

განცხადების რეგისტრაცია
N 882021090442 - 10/02/2021 16:09:29

მომზადების თარიღი
11/02/2021 12:31:04

საკუთრების განყოფილება

ზონა ზუგდიდი	სექტორი ქ. ზუგდიდი	კვარტალი	ნაკვეთი	ნაკვეთის საკუთრების გიპი:საკუთრება
43	31	73	027	ნაკვეთის დანიშნულება: არასასოფლო სამეურნეო დაზუსტებული ფართობი: 4989.00 კვ.მ. ნაკვეთის წინა ნომერი: 43.36.07.048; შენობა-ნაგებობის ჩამონათვალი: შენობა N1 განაშენიანების ფართი 637.66 კვ.მ, N2 განაშენიანების ფართი 45.59 კვ.მ,

მესაკუთრის განყოფილება

განცხადების რეგისტრაცია : ნომერი 882014571647 , თარიღი 24/10/2014 17:11:21
უფლების რეგისტრაცია: თარიღი 30/10/2014

უფლების დამადასტურებელი დოკუმენტი:

- მომართვა N10-1/550 , დამოწმების თარიღი: 26/09/2014 , ქალაქ ზუგდიდის მუნიციპალიტეტის მერია

მესაკუთრეები:

სსიპ ზუგდიდის მუნიციპალიტეტი, ID ნომერი: 220418956

მესაკუთრე:

სსიპ ზუგდიდის მუნიციპალიტეტი

აღწერა:

იპოთეკა

საგადასახადო გირავნობა:

რეესტრირებული არ არის

შემლუღული სარგებლობა

განცხადების
რეგისტრაცია
ნომერი
882021090442

თარიღი 10/02/2021
16:09:29

უფლების
რეგისტრაცია: თარიღი
11/02/2021

უზუფრუქტუარი: ა(ა)იპ "ზუგდიდის მუნიციპალიტეტის სკოლამდელ სააღმზრდელო დაწესებულებათა მართვის ცენტრი" 420427023;

საგანი: დამზუსტებული მიწის ფართობი: 4989.00 კვ.მ. და შენობა N1, N2 ;
უზუფრუქტუარის არსებობის ვალიდობა;

ბრძანება, რეესტრის ნომერი N24.24210217, დამოწმების თარიღი 21/01/2021, ზუგდიდის მუნიციპალიტეტის მერია ,

ვალდებულება

ყაღაღა/აკრძალვა:

რეესტრირებული არ არის

მოვალეთა რეესტრი:

რეესტრირებული არ არის

"ფიზიკური პირის მიერ 2 წლამდე ვალიდობის საკუთრებაში არსებული მატერიალური აქტივის რეალიზაციისას, აგრეთვე საგადასახადო წლის განმავლობაში 1000 ლარის ან მეტი ღირებულების ქონების საჩუქრად მიღებისას საშემოსავლო გადასახადი გადახდას ექვემდებარება საანგარიშო წლის მომდევნო წლის 1 აპრილამდე. რის შესახებაც აღნიშნული ფიზიკური პირი იმავე ვალაში წარუდგენს ლეკლარაციას საგადასახადო ორგანოს. აღნიშნული ვალდებულების შეუსრულებლობა წარმოადგენს საგადასახადო სამართალდარღვევას, რაც იწვევს პასუხისმგებლობას საქართველოს საგადასახადო კოდექსის XVIII თავის მიხედვით."

- ლოკუმენტის ნაწილის ნაწილის გადამოწმება შესაძლებელია საჯარო რეესტრის ეროვნული სააგენტოს ოფიციალურ ვებ-გვერდზე www.napr.gov.ge;
- ამონაწერის მიღება შესაძლებელია ვებ-გვერდზე www.napr.gov.ge, ნებისმიერ გვერდით სარეგისტრაციო სამსახურში, იუსტიციის სახლებსა და სააგენტოს ავტორიზებულ პირებთან;
- ამონაწერში ტექნიკური ხარვეზის აღმოჩენის შემთხვევაში დაგვიკავშირდით: 2 405405 ან პირადად შევსეთ განაცხადი ვებ-გვერდზე;
- კონსულტაციის მიღება შესაძლებელია იუსტიციის სახლის ცხელ ხაზზე 2 405405;
- საჯარო რეესტრის თანამშრომელთა მხრიდან უკანონო ქმედების შემთხვევაში დაგვიკავშირდით ცხელ ხაზზე: 08 009 009 09
- თქვენთვის საინტერესო ნებისმიერ საკითხთან დაკავშირებით მოგვწერეთ ელ-ფოსტით: info@napr.gov.ge

Rehabilitation of
Kimdergarten #1
in Zugdidi Town

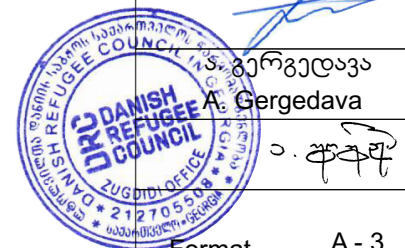
Project
address:
Georgia,
Zugdidi

Stage:
Architectural project

Cadastral
Documentation

ბ. ქანთარია
B. Qantaria

ა. გერგეტაძე
A. Gergedava

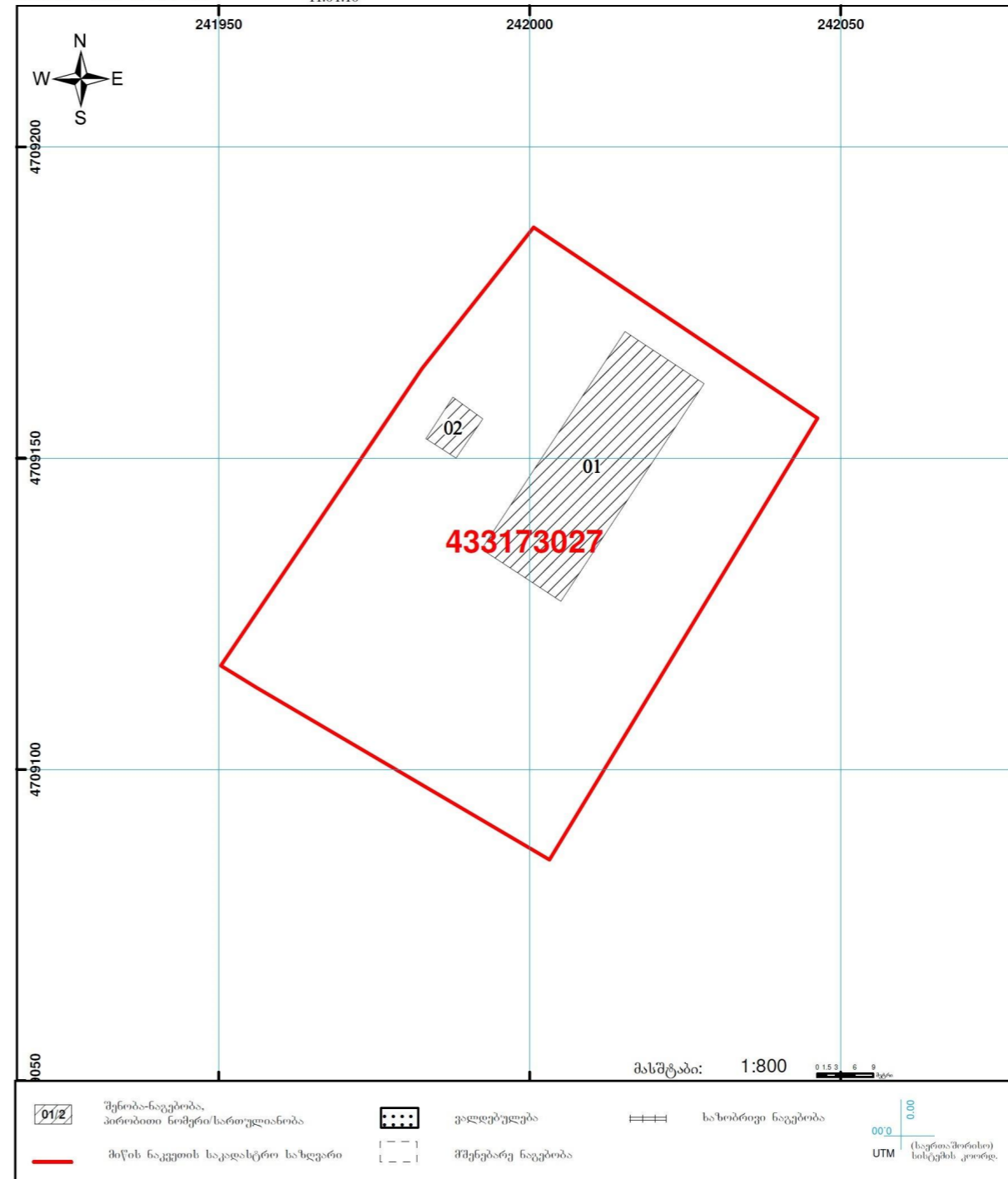




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საკადასტრო ბუბმა

მუშის ნაკვეთის საკადასტრო კოდი: 43 31 73 027
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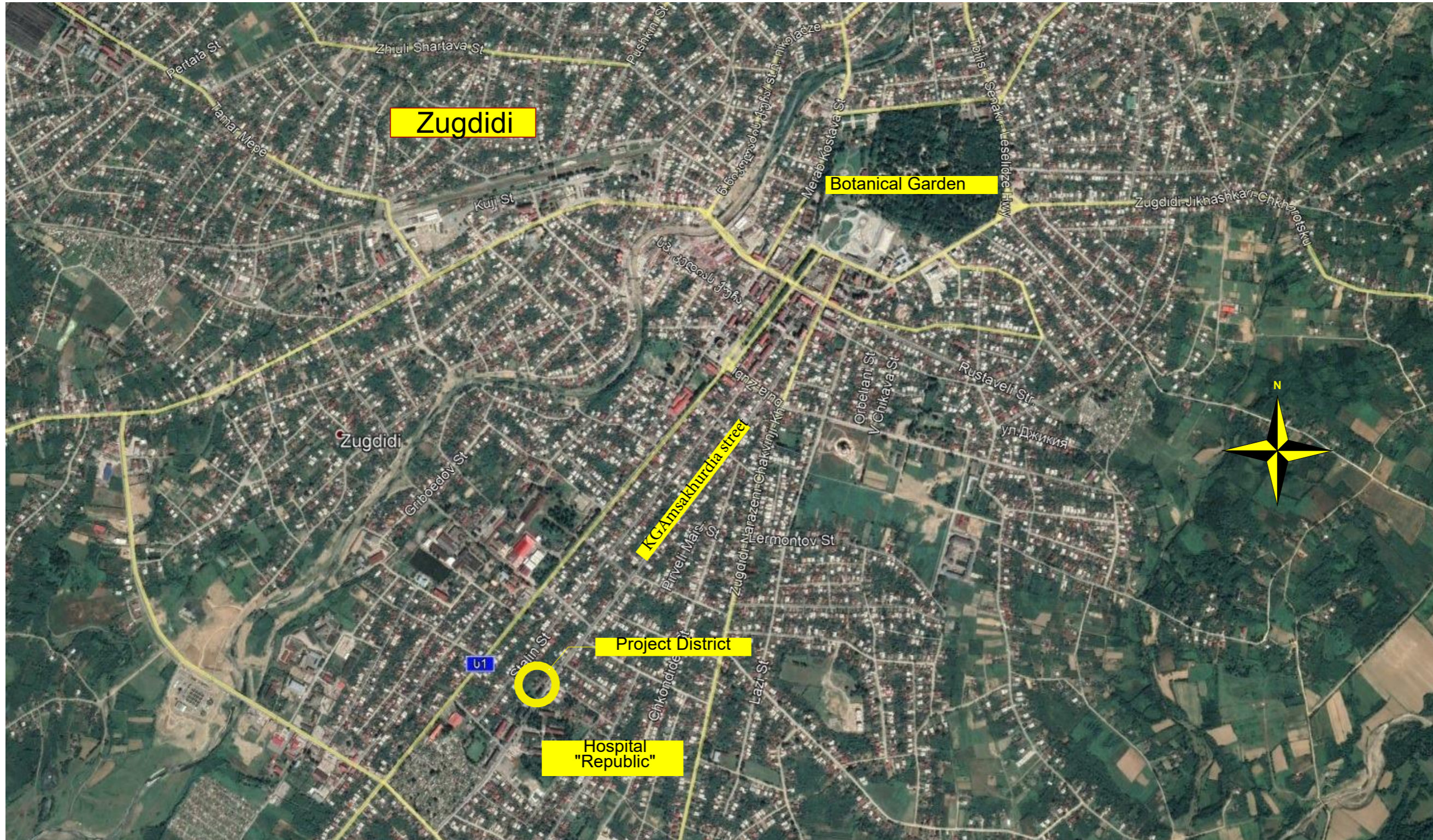
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საჯარო რეესტრის ეროვნული სააგენტო: თბილისი 0102 წმ. ნიკოლოზის/ნ. ჩხეიძის ქ. 2 ტელ: (995 32) 91 04 27; ფაქსი: (995 32) 91 03 41 www.nabr.gov.ge



Layout Plan on Othophoto



Rehabilitation of
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Layout Plan on
Orthophoto

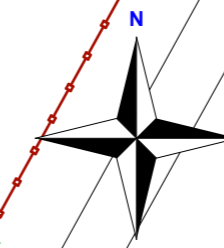
ბ. ჯანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava

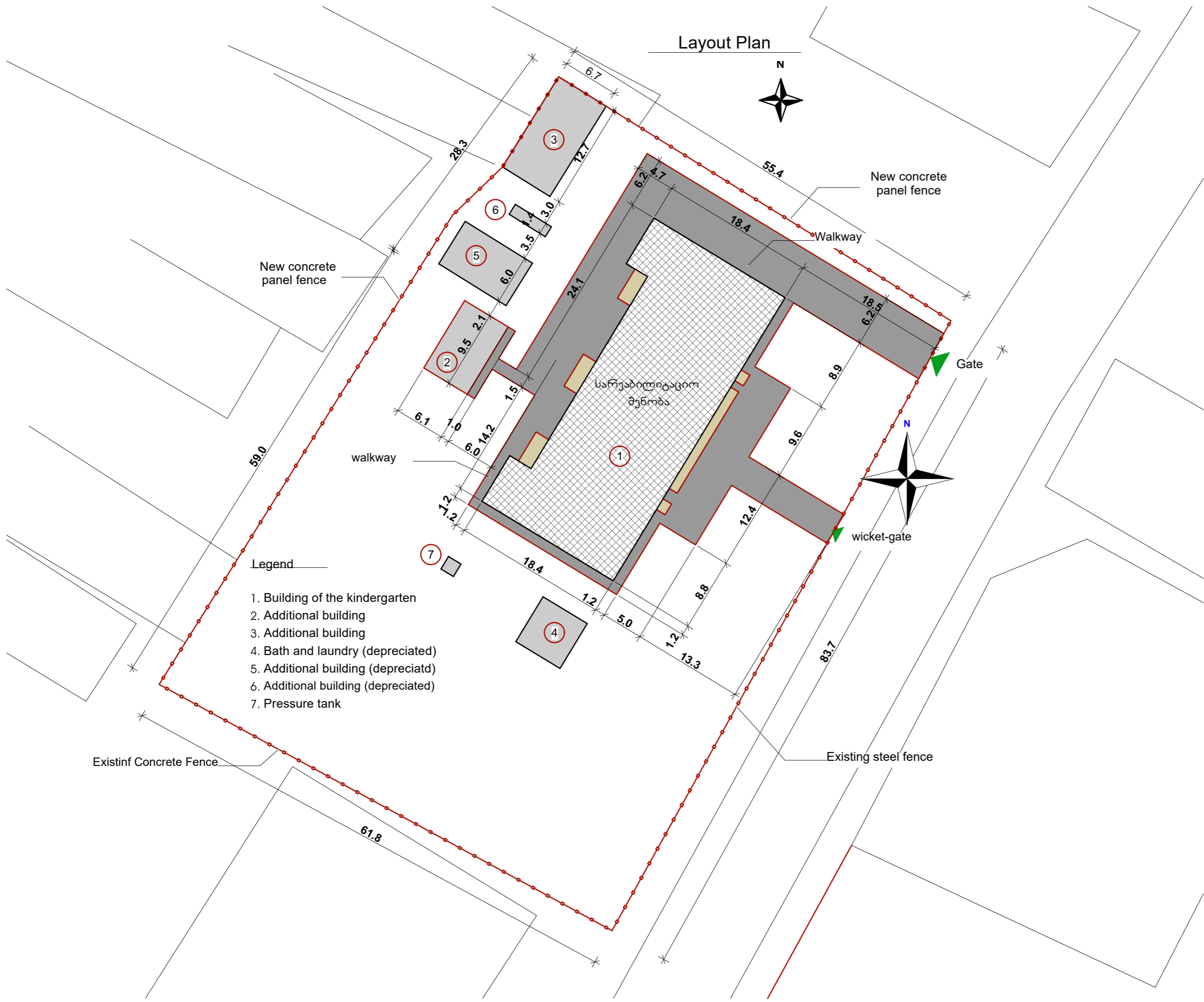


Format A - 3

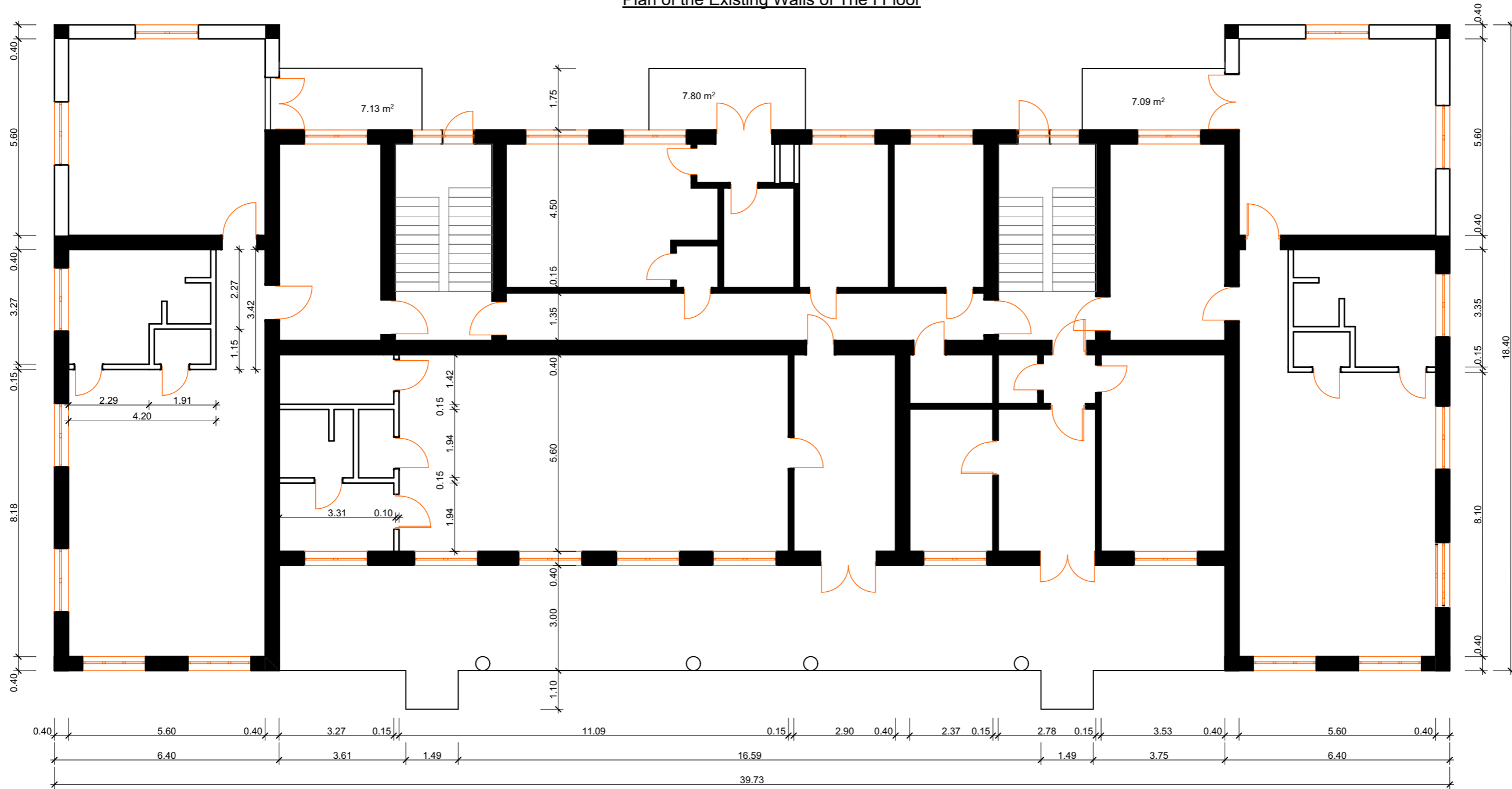
Layout Plan



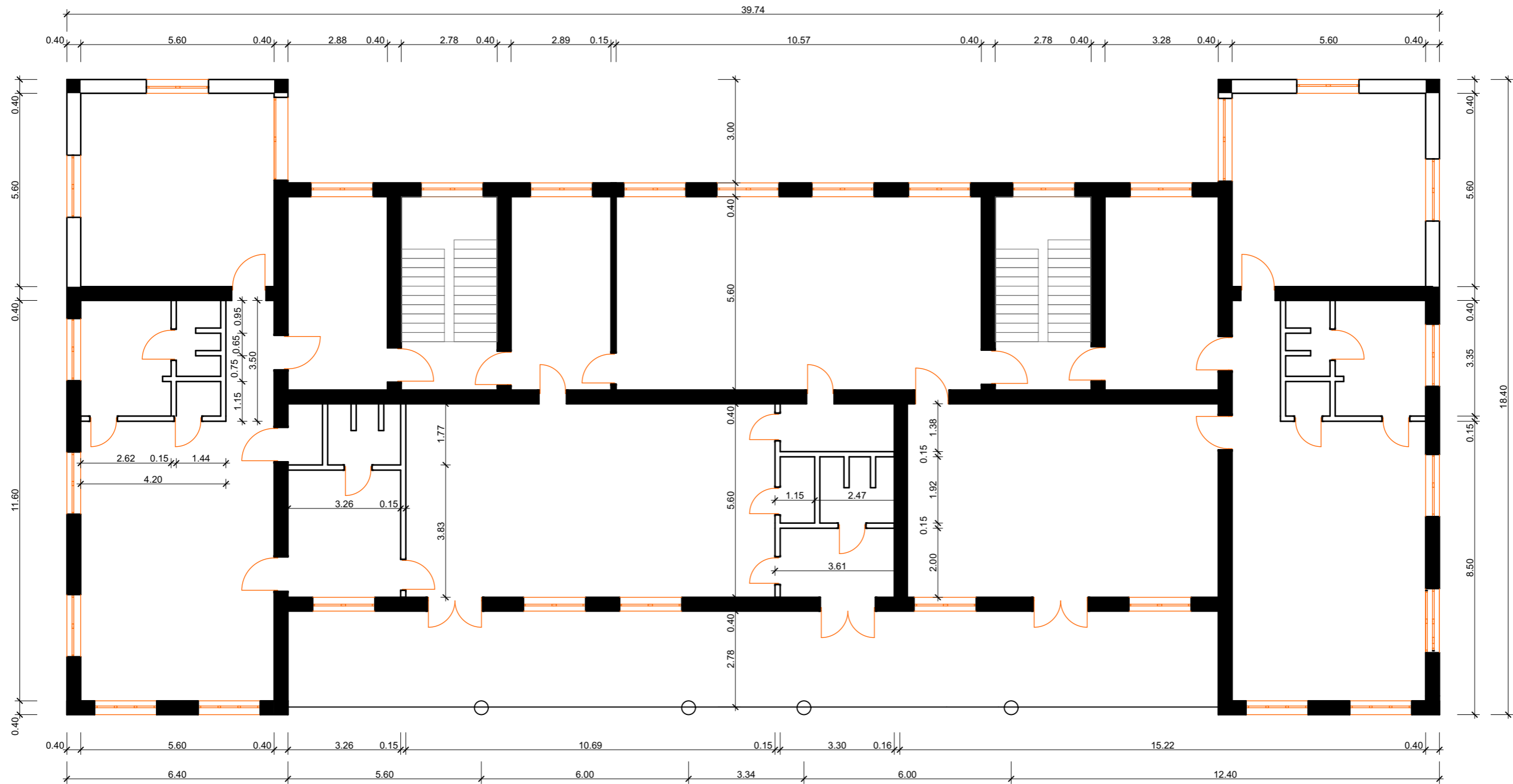
- Legend
- 1. Building of the kindergarten
 - 2. Additional building
 - 3. Additional building
 - 4. Bath and laundry (depreciated)
 - 5. Additional building (depreciatd)
 - 6. Additional building (depreciated)
 - 7. Pressure tank



Plan of the Existing Walls of The I Floor



Plan of the Existing Walls of the II Floor



ლავანობის კედელი

Rehabilitation of
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Plan of the
existing walls
on the first
floor

ბ. კანთარია
B. Qantaria

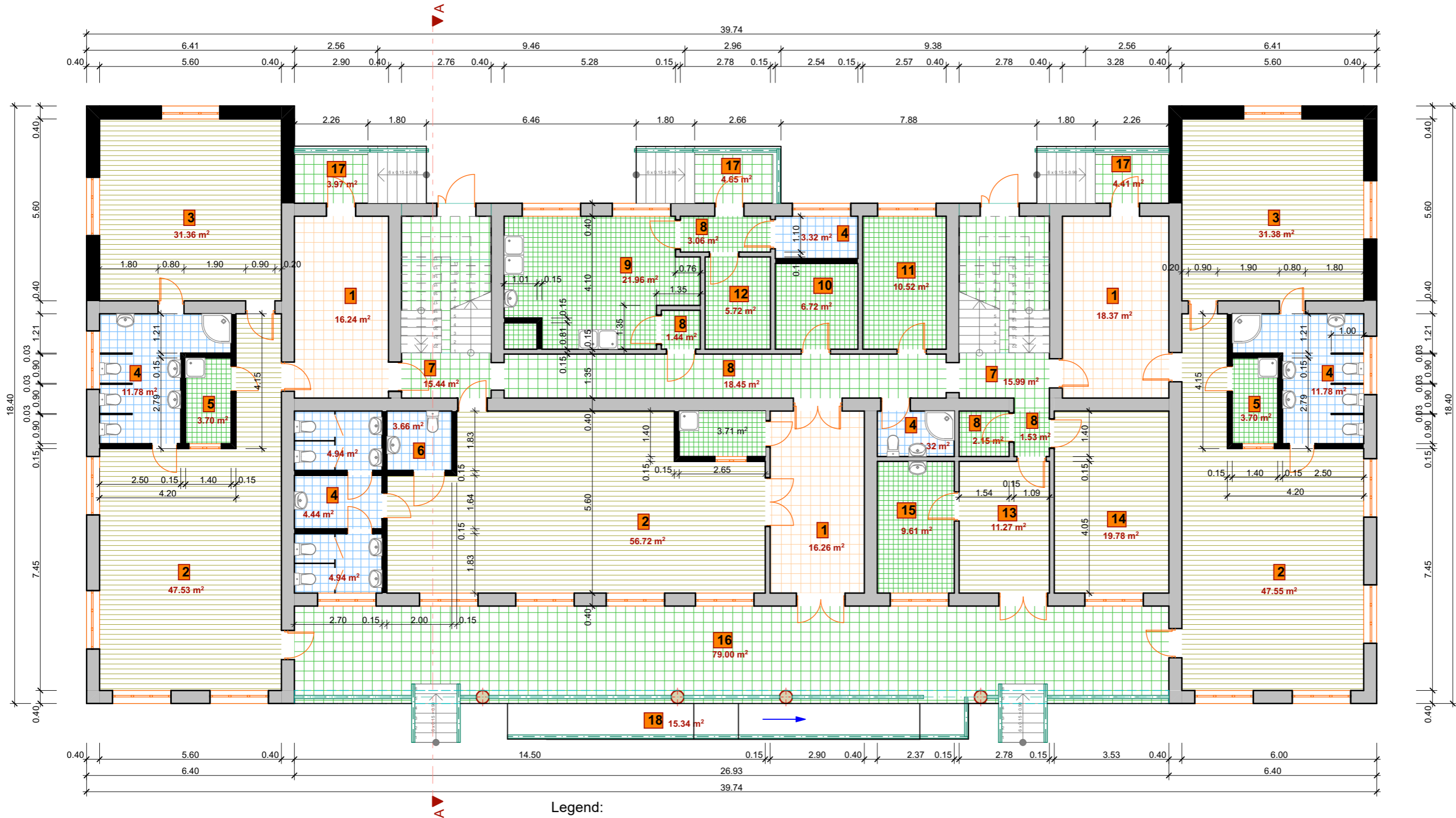
ა. გერგელავა
A. Gergedava



Format A - 3

Page	Pages
9	46

Plan of the I floor



Legend:

- | | |
|--------------------------------------|--------------------------|
| 1. Wardrobe | 10. Room for clean linen |
| 2. Common room | 12. Warehouse |
| 3. Bedroom | 13. Hall |
| 4. WC and bathroom unit | 14. Director's room |
| 5. Canteen of the group | 15. Doctor's room |
| 6. WC for children with disabilities | 16. Balcony |
| 7. Stair cell | 17. Stair platform |
| 8. Corridor | 18. The ramp |
| 9. Kitchen | |

New wall

Rehabilitation of
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address:
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Stage:
Architectural project

Plan of the I
floor

ბ. ქანთარია
B. Qantaria

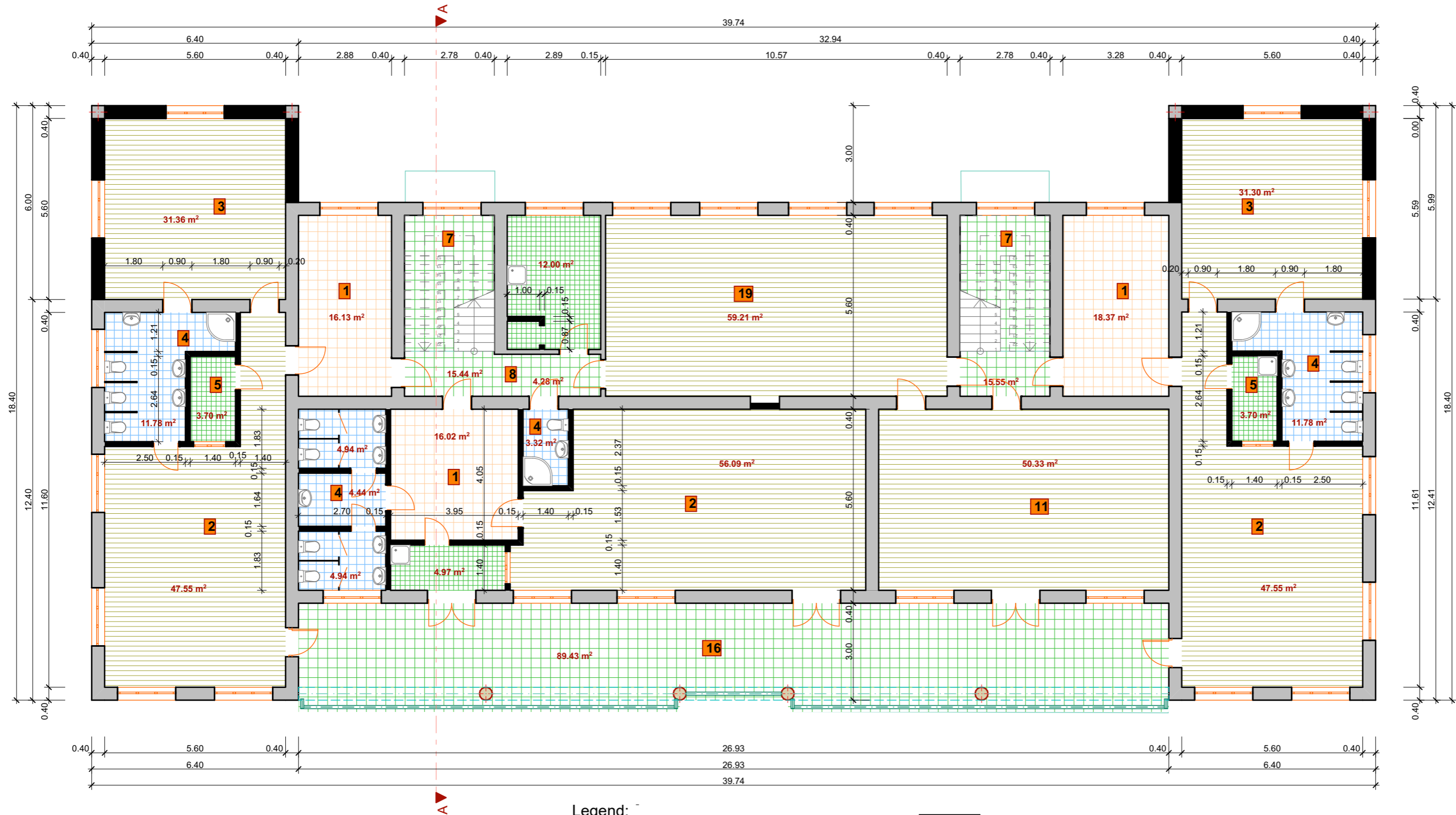
ა. გერგედავა
A. Gergedava

Correction
14.08.2019



Format A - 3

Plan of the II Floor



Legend:

- | | |
|-------------------------|-----------------|
| 1. Wardrobe | 8. Corridor |
| 2. Common room | 9. Kitchen |
| 3. Bedroom | 16. Balcony |
| 4. WC | 11. Sports room |
| 5. Canteen of the group | 19. Music Hall |
| 7. Stair cell | |

█ New wall

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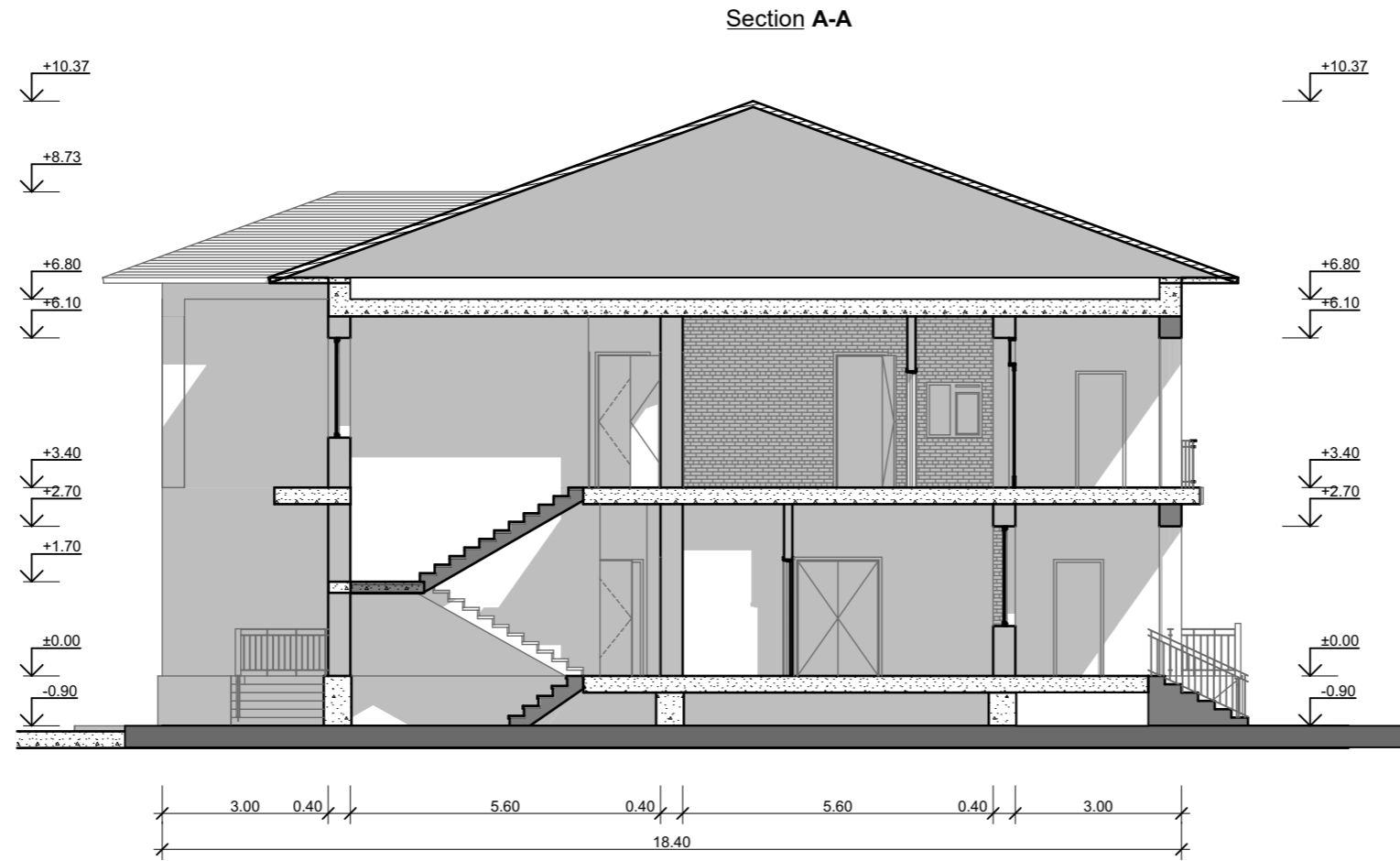
Plan of the II
Floor

ბ. ქანთარის
B. Qantaria

ა. გერგედავა
A. Gergedava



Format A - 3



Project address:

Georgia,
Zugdidi

Stage:
Architectural project

Section **A-A**

ბ. ჯანთარია
B. Qantaria

ა. გერგელავა
A. Gergedava



ფორმატი
Format A - 3

ფურცელი
Page

12

ფურცლები
Pages

46

Facade



Rehabilitation of
Kindergarten #1
in Zugdidi Town

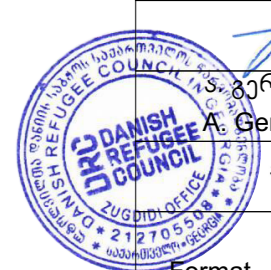
Project
address:
Georgia,
Zugdidi

Stage:
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Facades

ბ. ქანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava



Format A - 3

Page	Pages
13	46

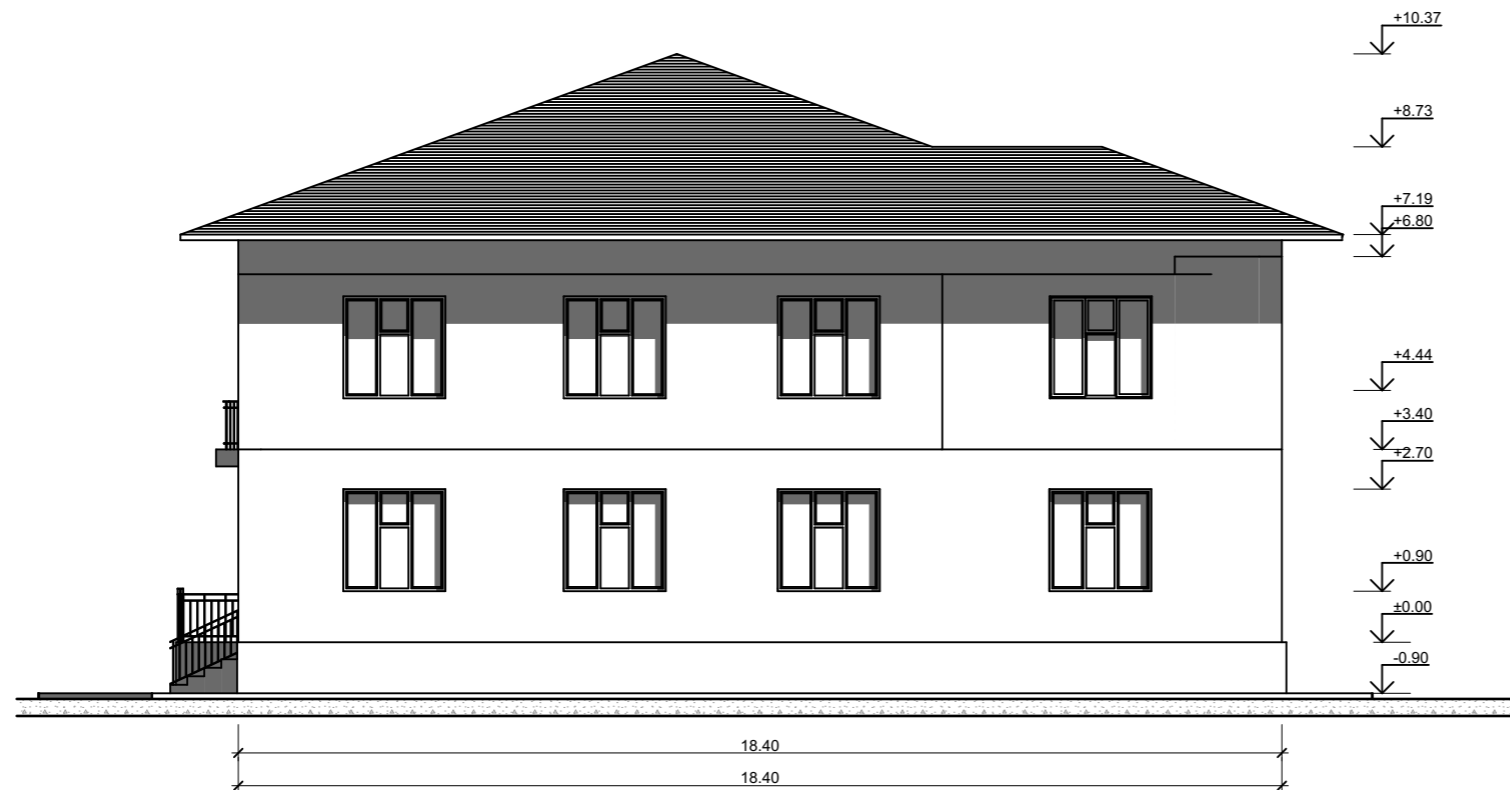
B side of building



C Side of the Building



D Side of the Building



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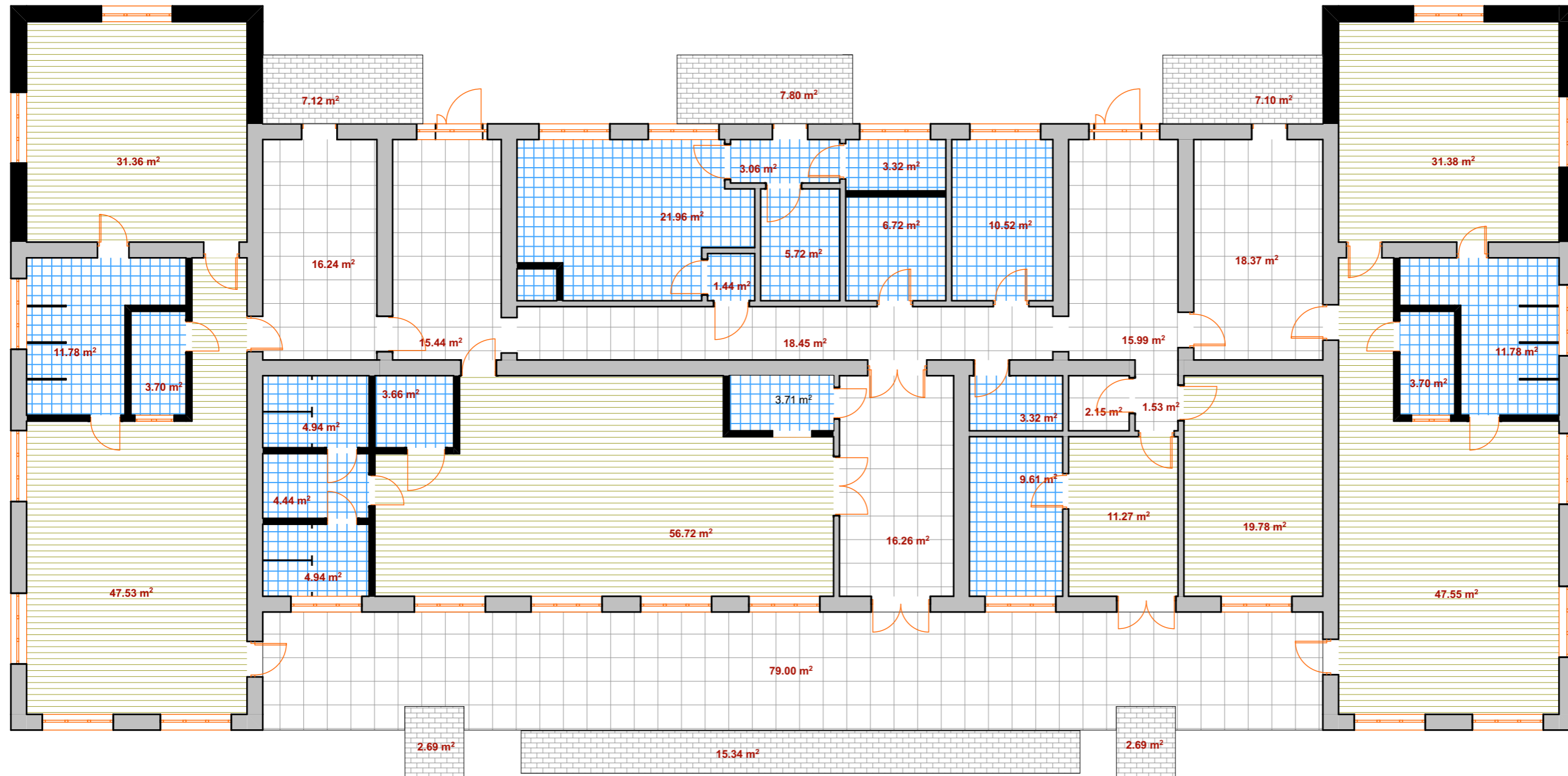
Facades

ბ. ქანთარია
B. Qantaria

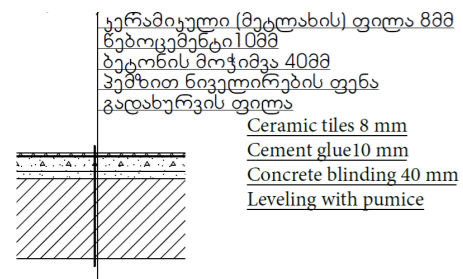
ა. გერგედავა
A. Gergedava



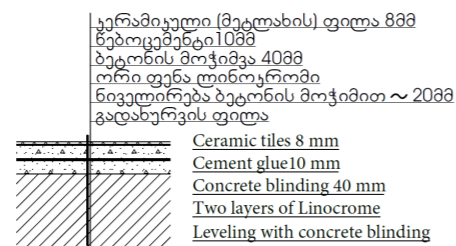
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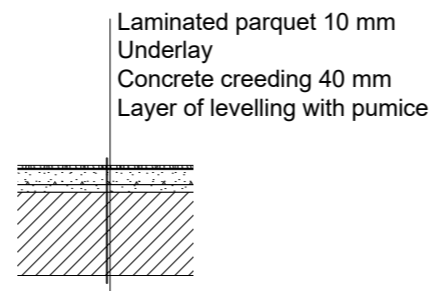
Tiled flooring in the entryway and halls



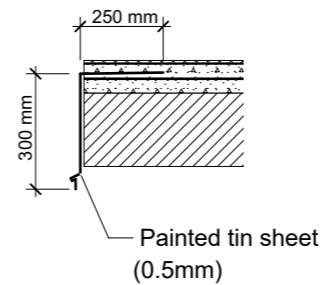
მეტლ
Ceran
Tiled flooring in the Sanitary
facilities, balcony and kitchen



Laminated par uet flooring



Node at Balcony



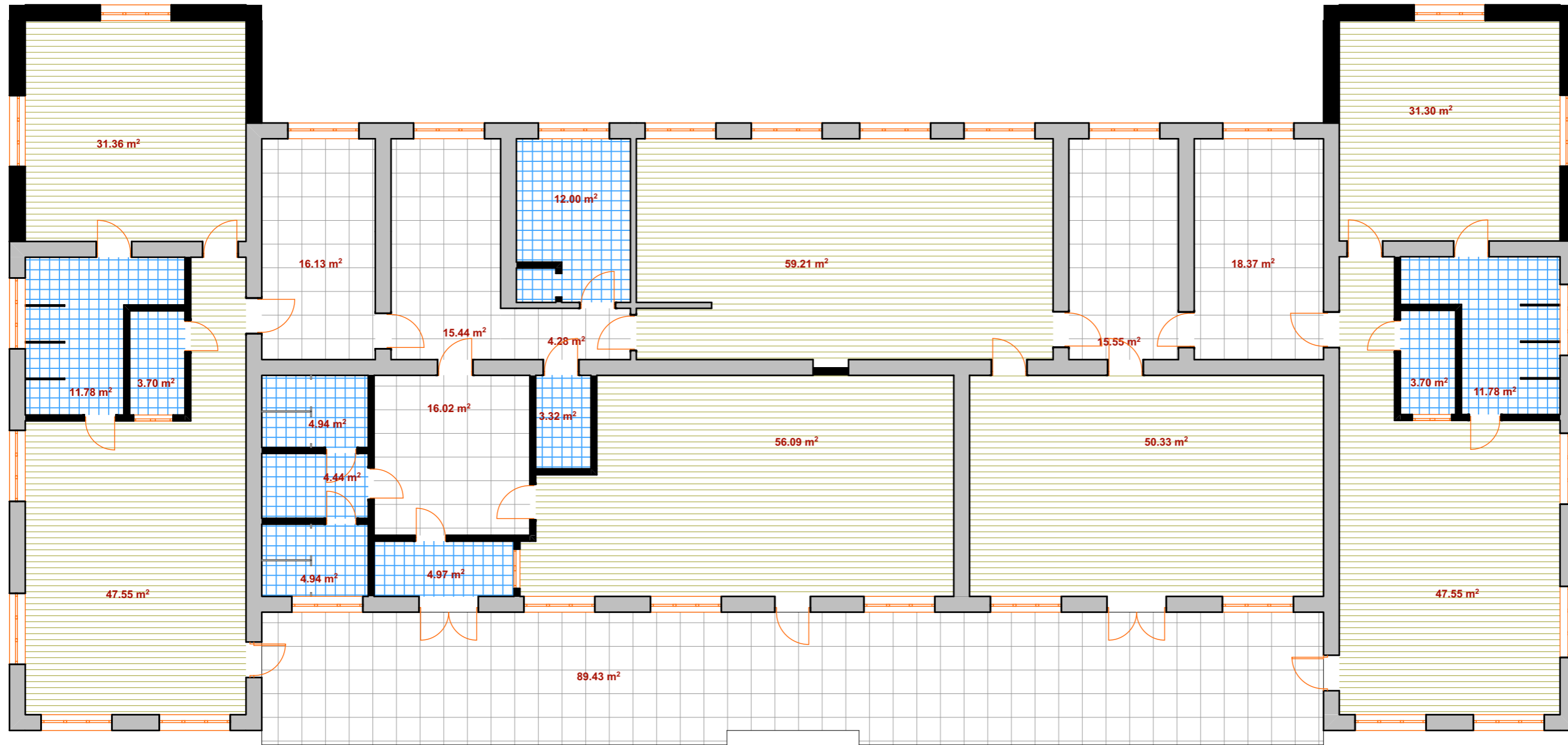
Tiled flooring on the balconies,
in the kitchens, staircases, in the halls
მეტლახის იატაკი აივნებზე,
სამზარეულოში, კიბის ბაქნებზე
და ლერეფებში

Tiled flooring in sanitary facilities
მეტლახის იატაკი სანუკანძებში

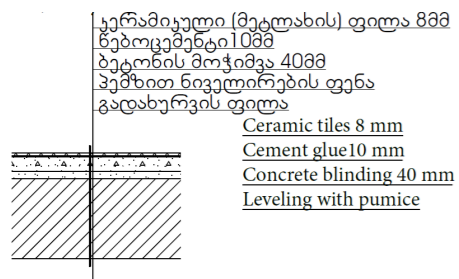
Laminated parquet flooring

Basalt finish

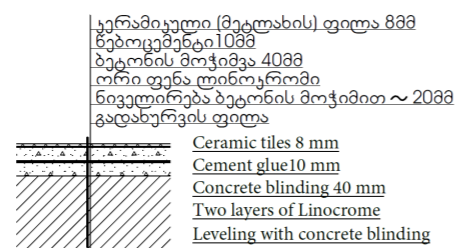




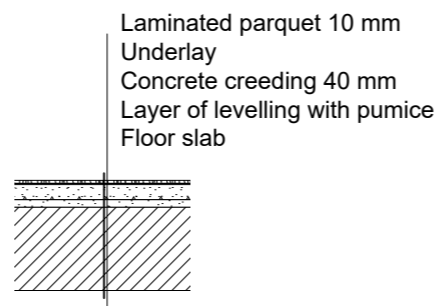
Tiled flooring in the entryway and halls



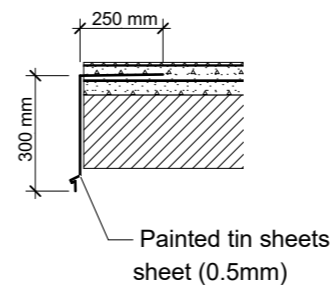
მეტლ
Ceram
Tiled flooring in the Sanitary
facilities, balcony and kitchen



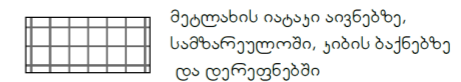
Laminated parquet flooring



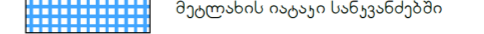
Node at Balcony



Tiled flooring on the balconies,
in the kitchens, staircases, in the halls



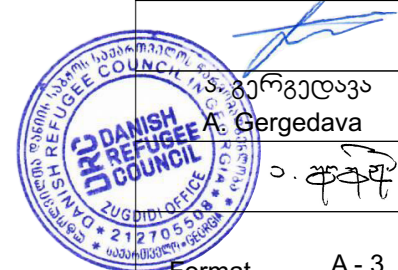
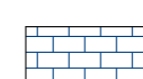
Tiled flooring in sanitary facilities



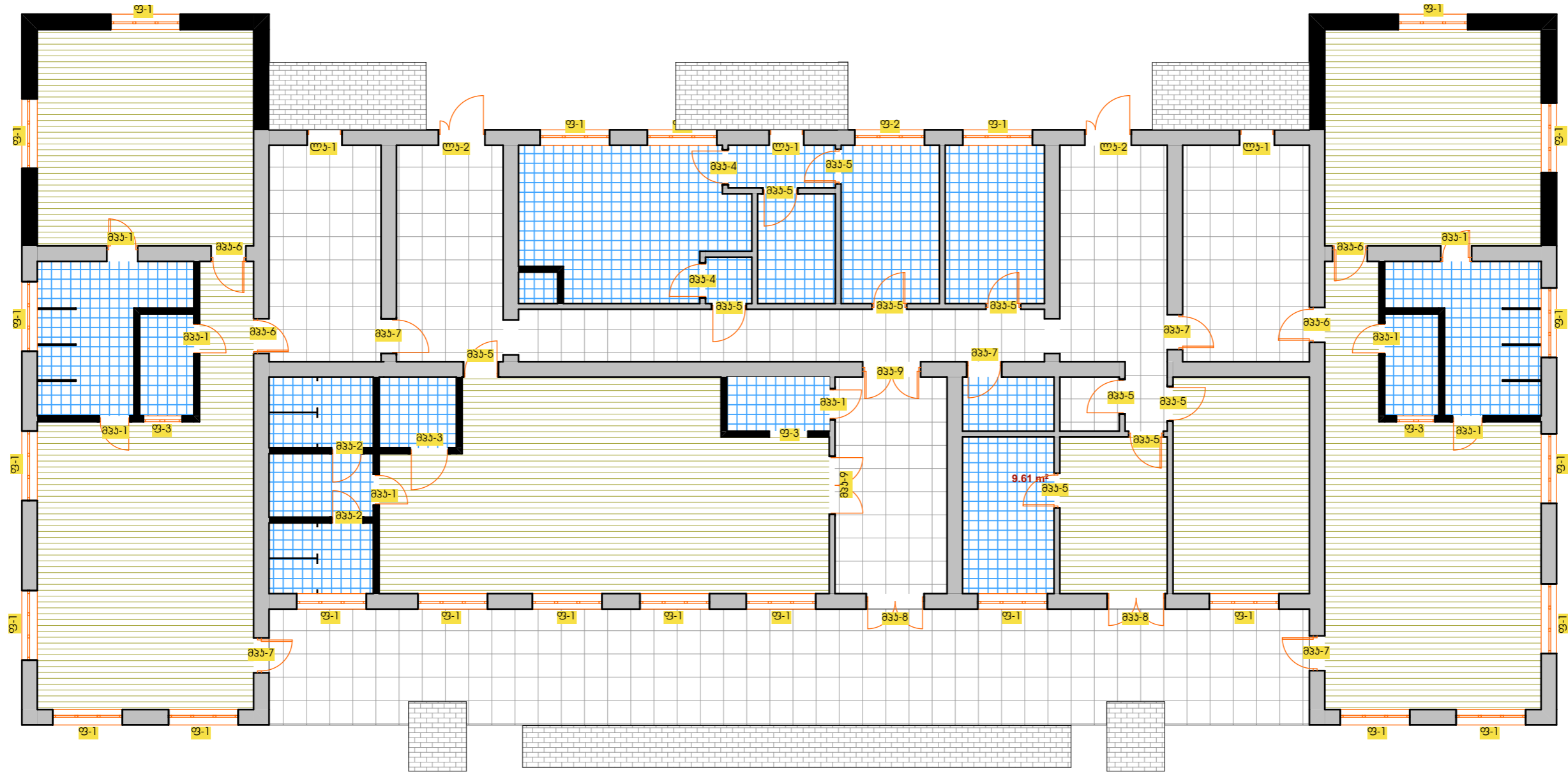
Laminated parquet flooring



მოპირკეთება ბაზალტით
Basalt lining



Rehabilitation of
Kindergarten #1
in Zugdidi Town



Project
address:
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Zugdidi

Stage:
Architectural project

Windows and
doors

ბ. ჯანთარია
B. Qantaria

ა. გერგელავა
A. Gergedava

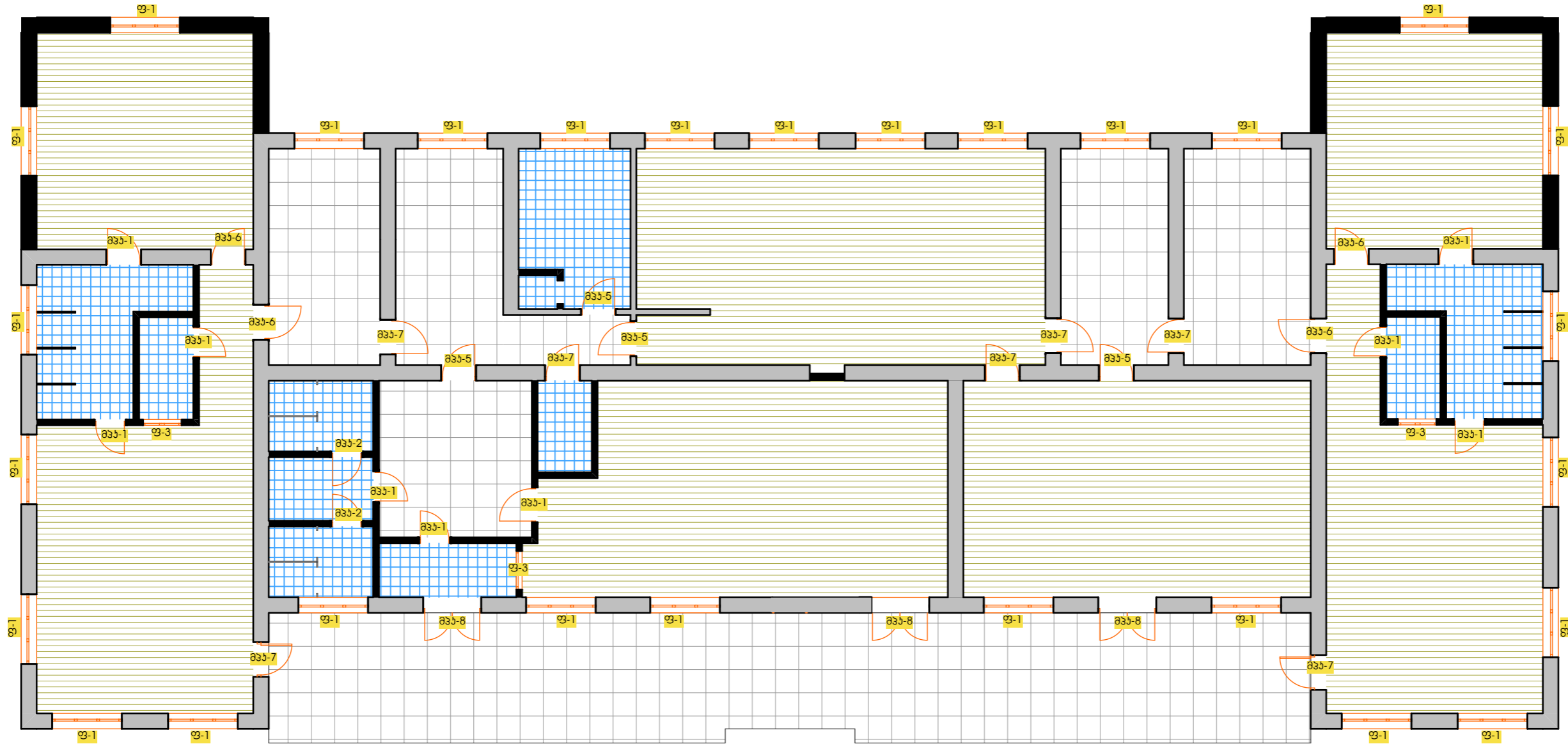


ფორმატი
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ფურცელი
Page 17

ფურცლები
Pages 46

Rehabilitation of
Kindergarten #1
in Zugdidi Town



Project
address:
Georgia,
Zugdidi

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Architectural project

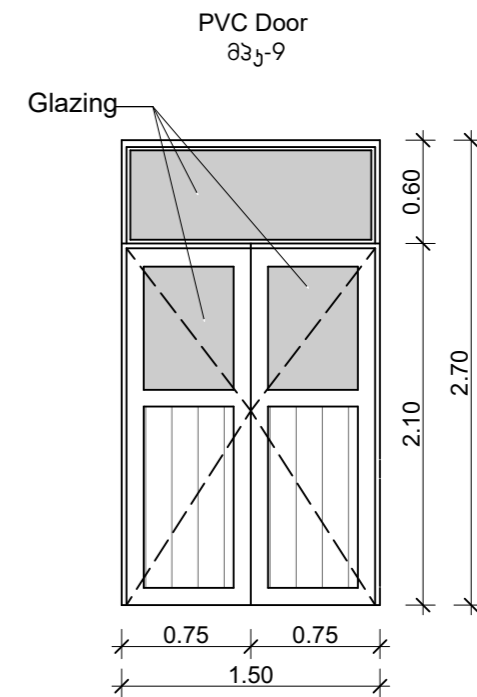
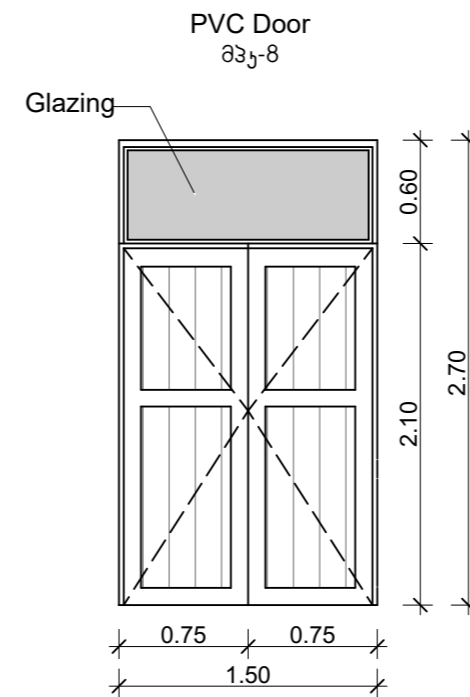
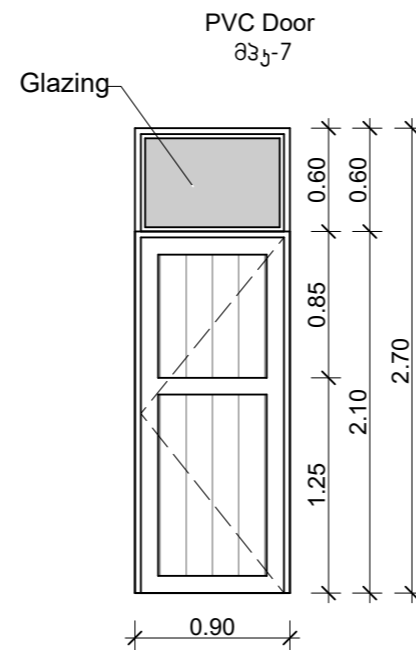
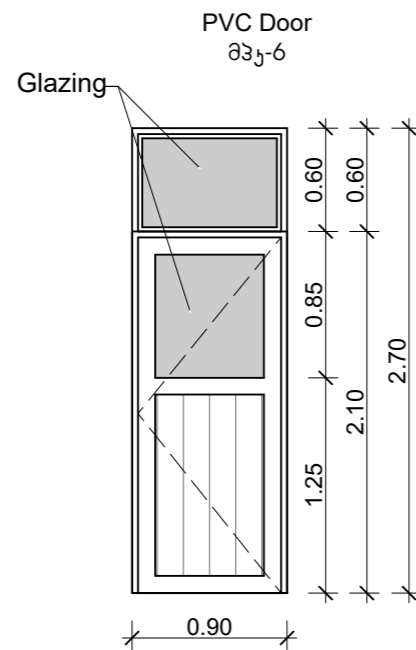
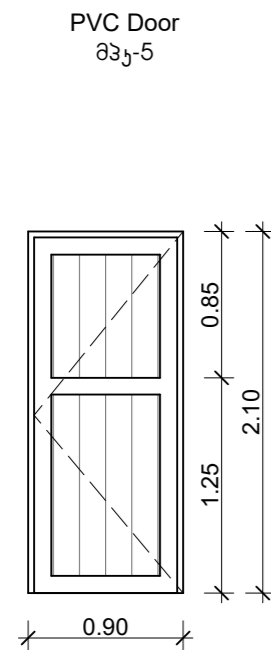
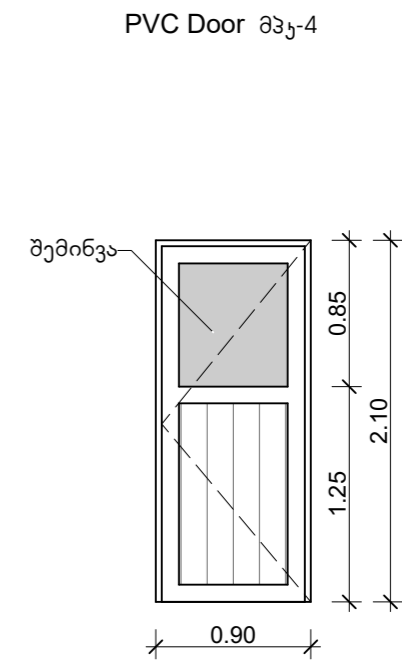
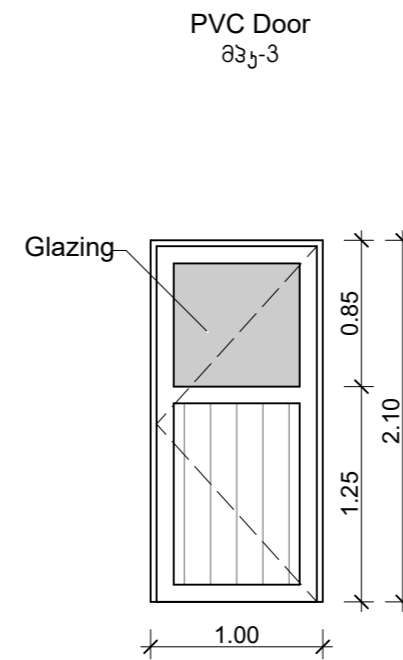
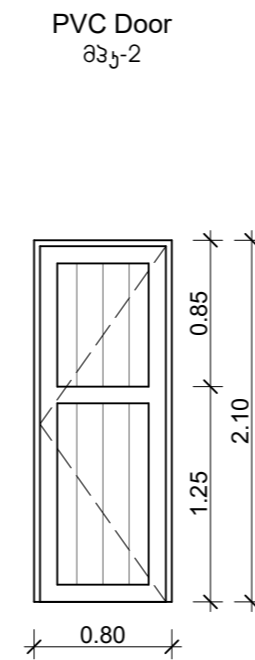
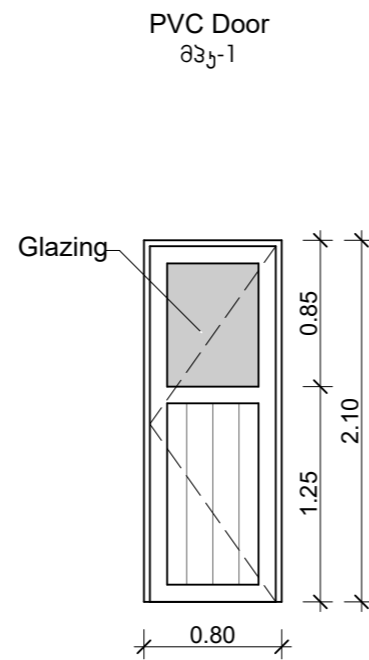
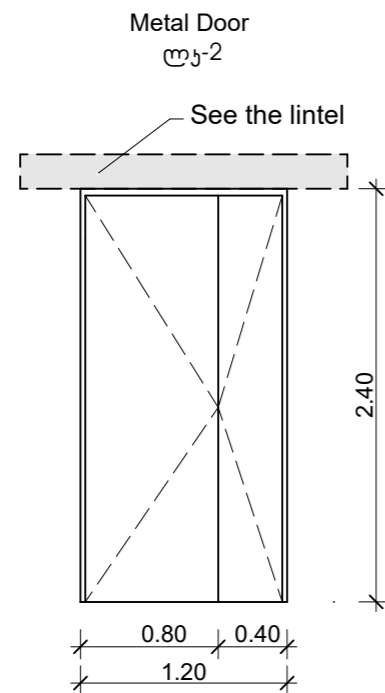
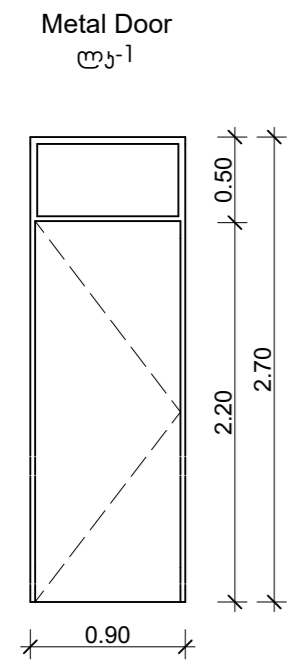
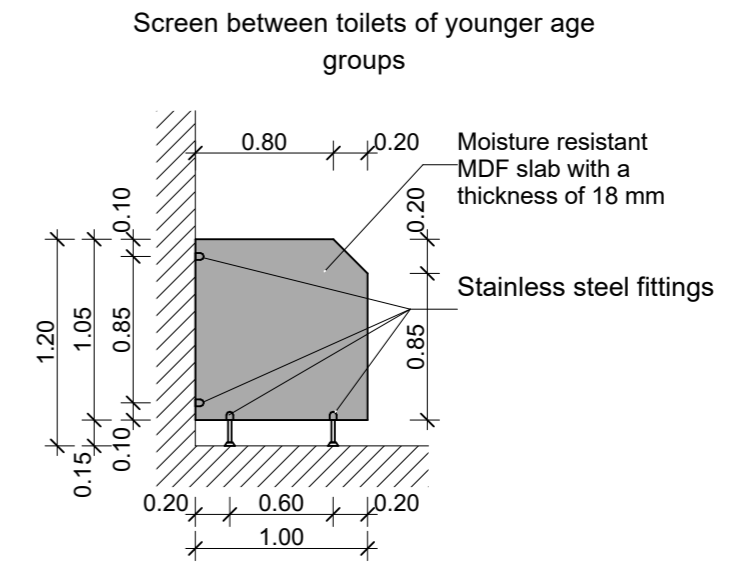
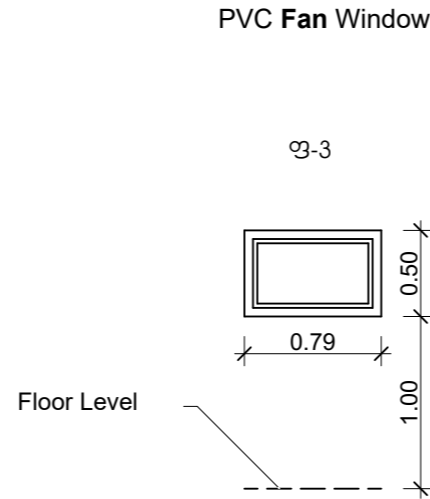
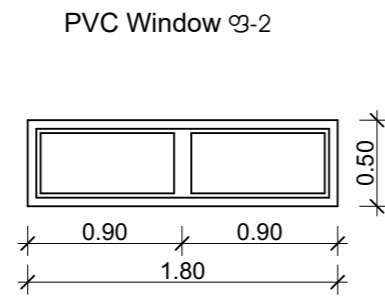
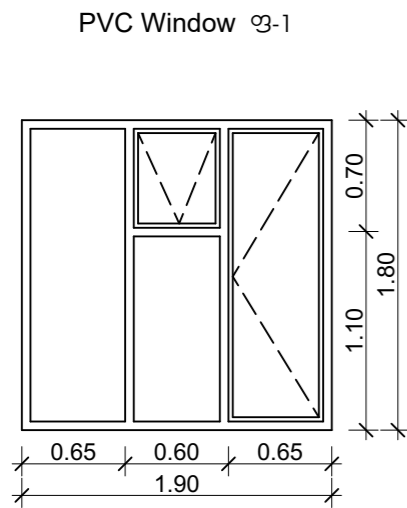
Windows and
doors
I floor

ბ. ჯანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava



Format A - 3

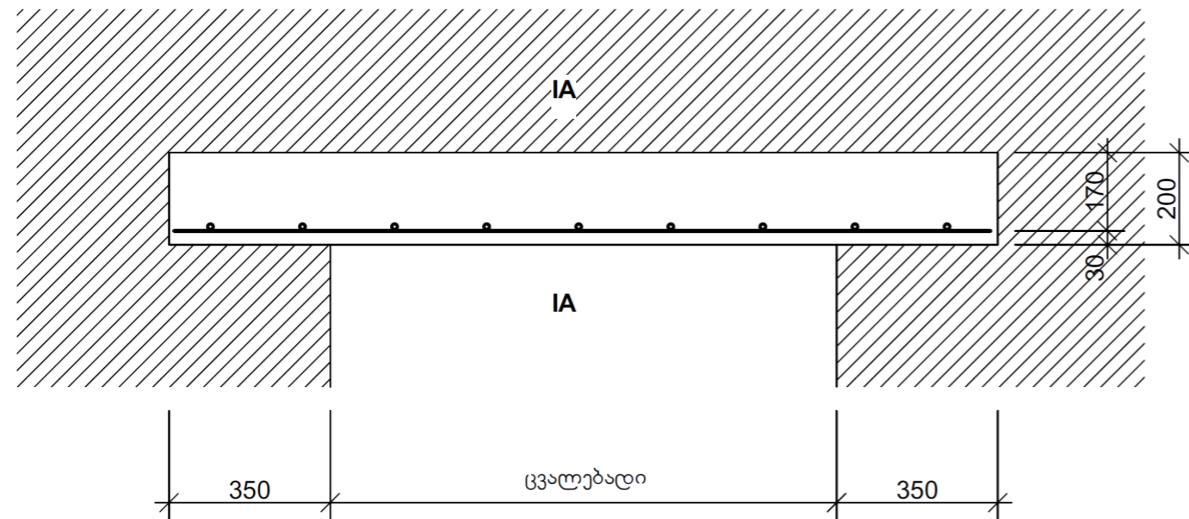




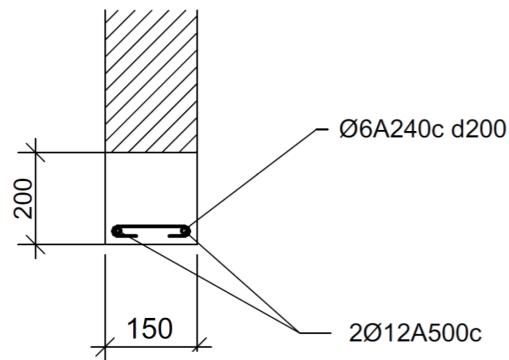
Specification of Windows and Doors

ქარ-ფანჯრების სპეციფიკაცია					
მარკა Mark	რაოდენობა Quantity	სიგანე mm	სიმაღლე mm	m2	Σ m2
ფ-1	52	1900	1800	3.42	177.84
ფ-2	1	1800	500	0.9	0.9
ფ-3	6	800	500	0.4	2.4
				Σ	181.14
ლ-1	3	900	2700	2.43	7.29
ლ-2	2	1200	2400	2.88	5.76
მ-1	17	800	2100	1.68	28.56
მ-2	4	800	2100	1.68	6.72
მ-3	1	1000	2100	2.1	2.1
მ-4	2	900	2100	1.89	3.78
მ-5	14	900	2100	1.89	26.46
მ-6	8	900	2700	2.43	19.44
მ-7	12	900	2700	2.43	29.16
მ-8	5	1500	2700	4.05	20.25
მ-9	2	1500	2700	4.05	8.1
				Σ	157.62

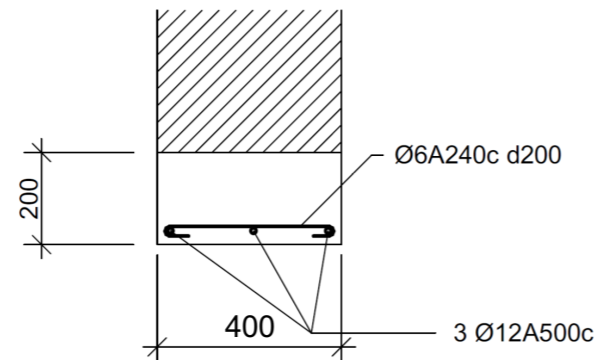
მონოლითური ზღუდარი ტიობებზე
Monolithic Lintel on Apertures



A-A
ტიობაზე
On partition



A-A
გარე კედელზე
On external wall



Partitions and doors for toilets for boys and girls in the senior group

Rehabilitation of
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Zugdidi

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Architectural project

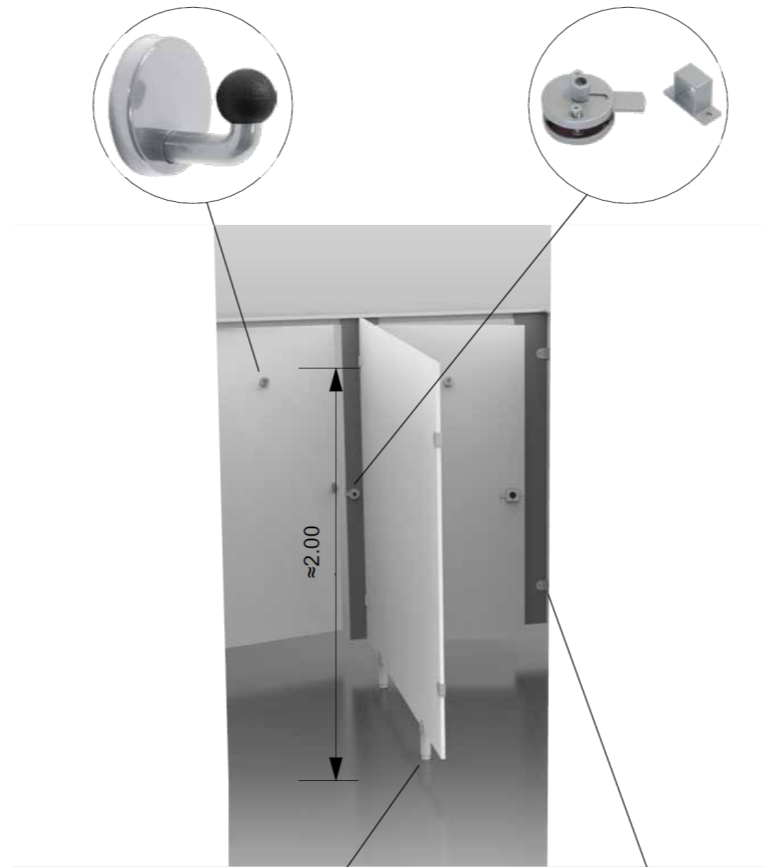
Partitions in the
toilets

ბ. კანთარია
B. Qantaria

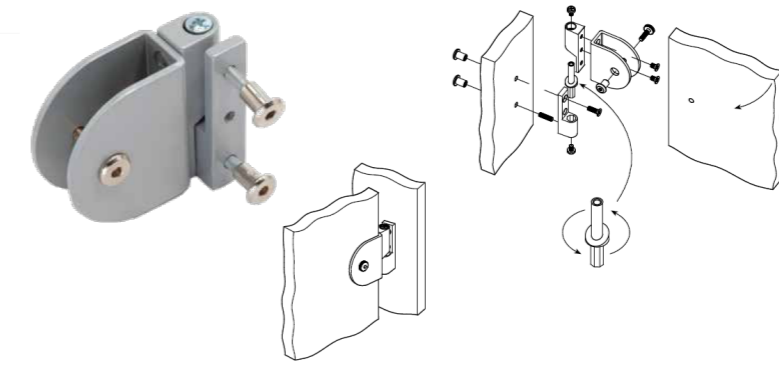
ა. გერგედავა
A. Gergedava

Format A - 3

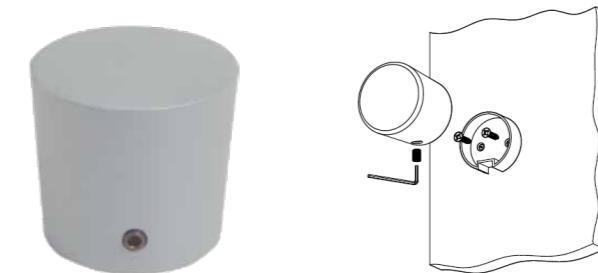
Page	Pages
21	46



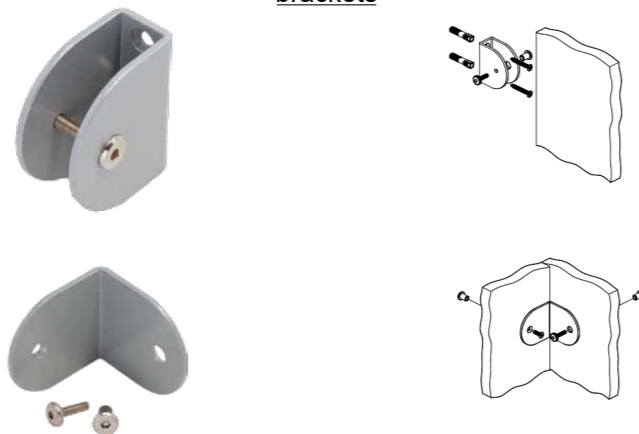
Stainless Steel Hinges



Stainless Steel Doorhandles



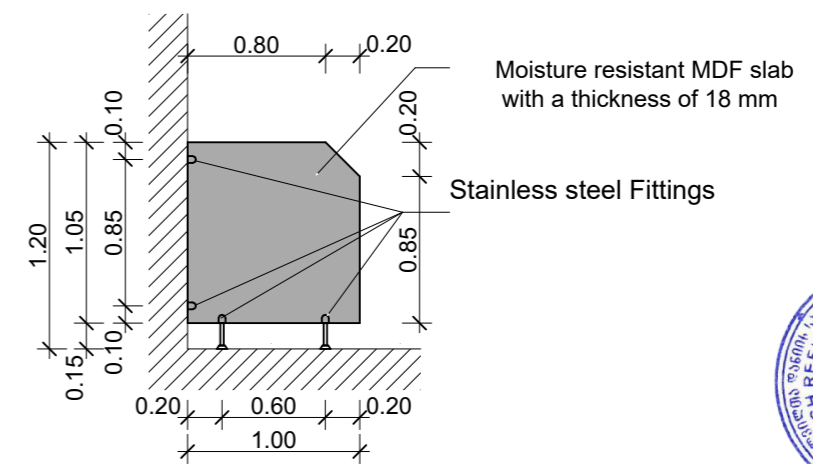
Stainless steel brackets



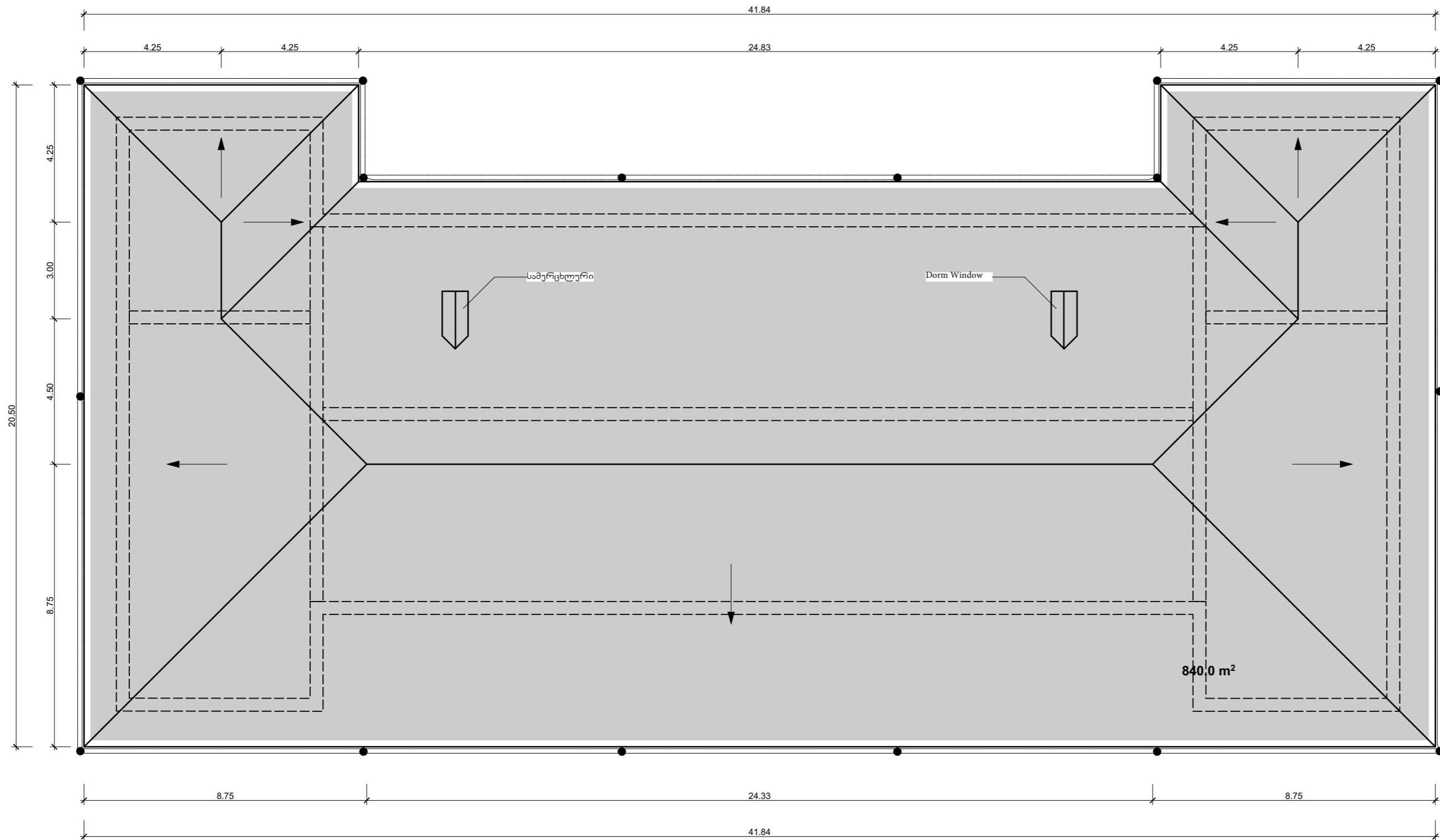
Stainless steel support



Screen between toilets of younger age groups



Plan of a Sloped Roof



● Water intake facility

Rehabilitation of
Kindergarten #1
in Zugdidi Town

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Plan of Sloped
Roof

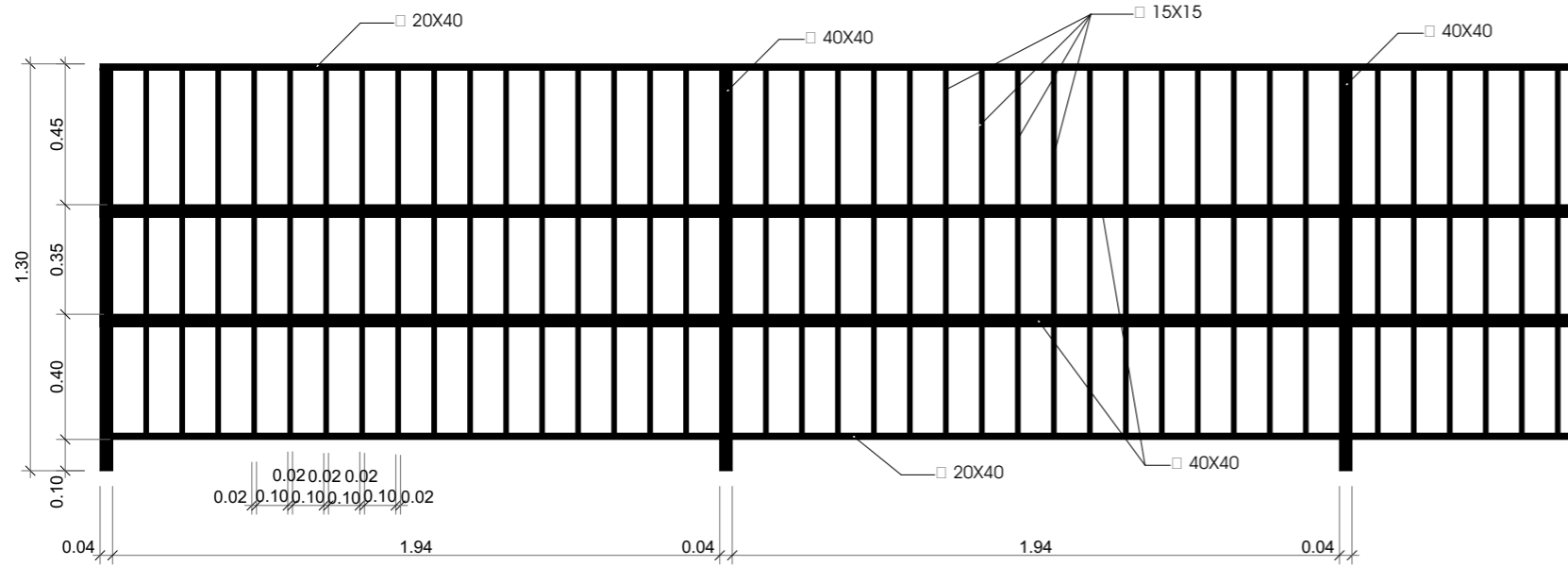
ბ. ჯანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava

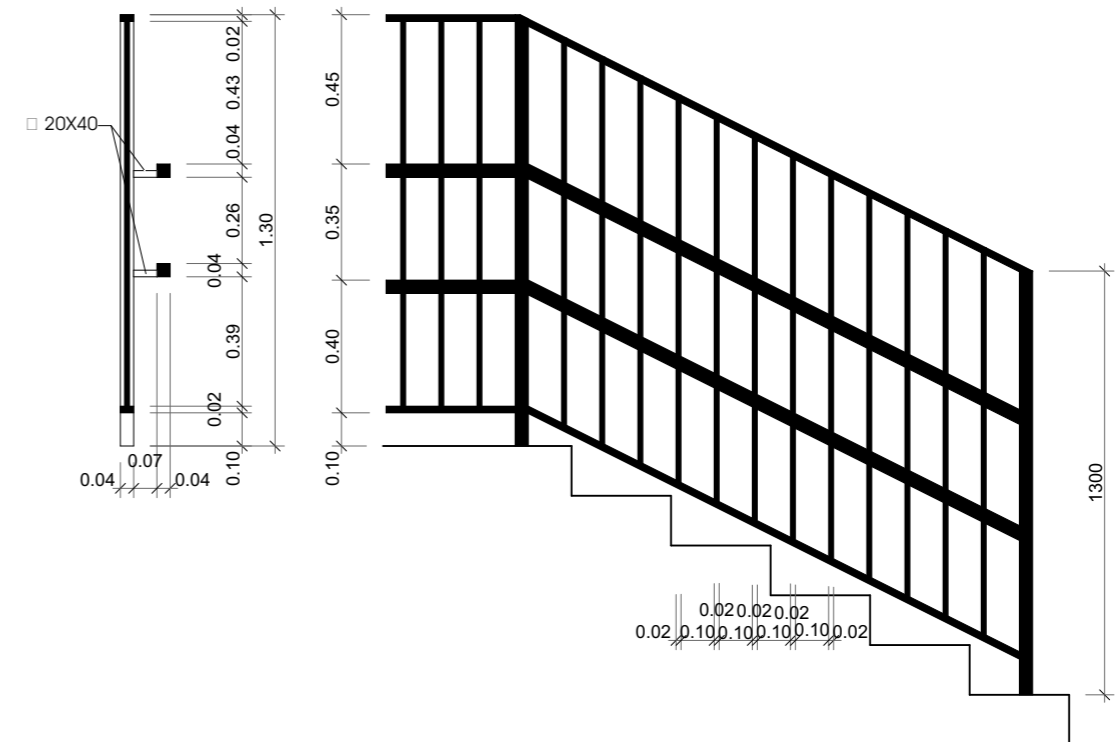


ფორმატი
Format A - 3

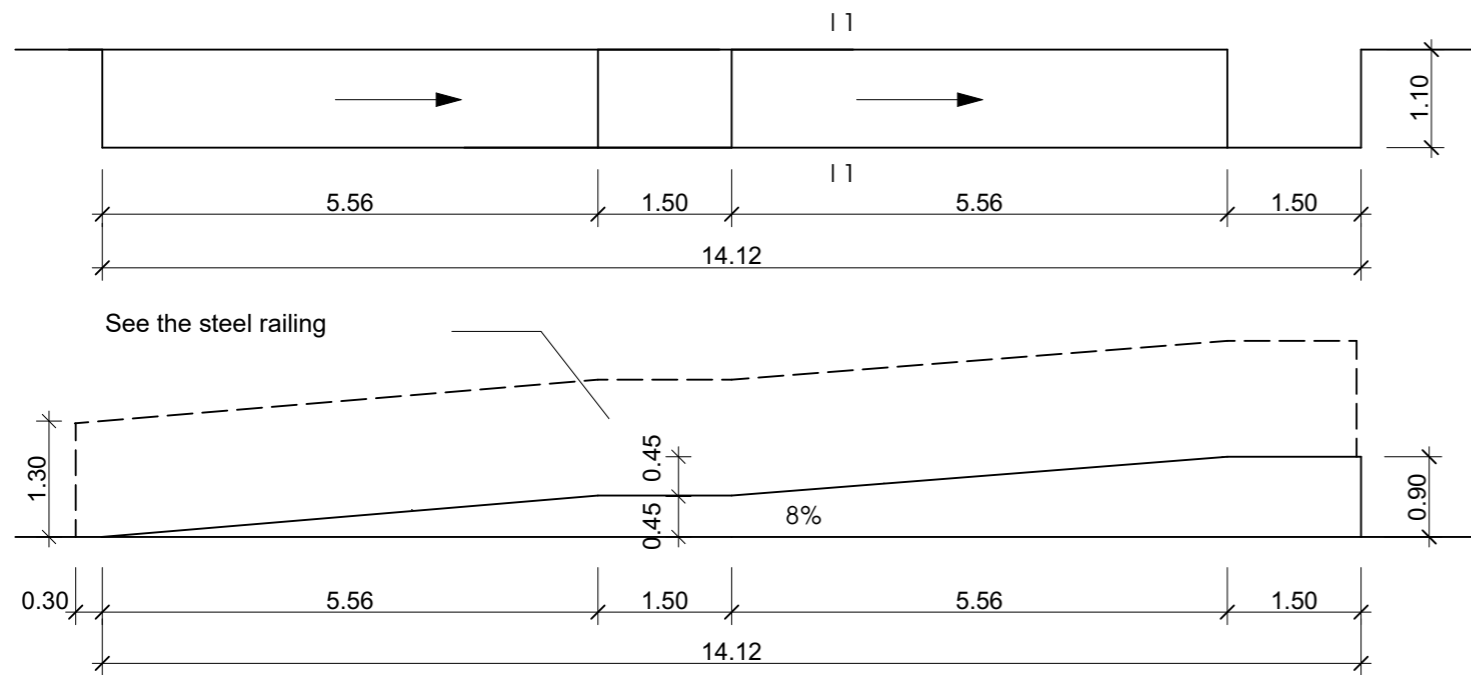
Steel railing



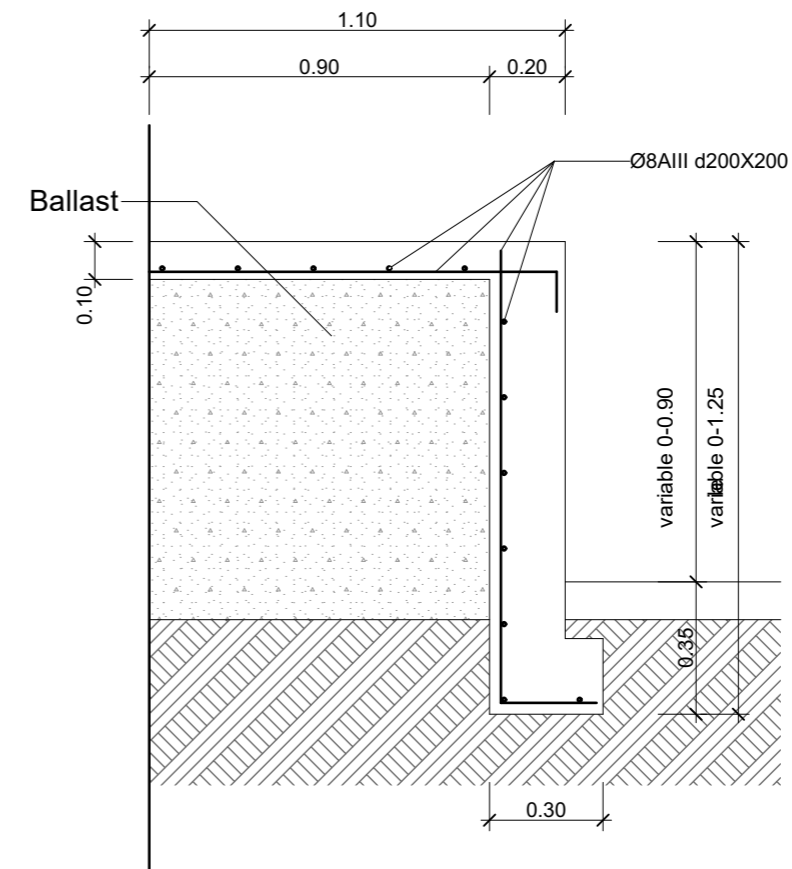
Steel railing at the staircase



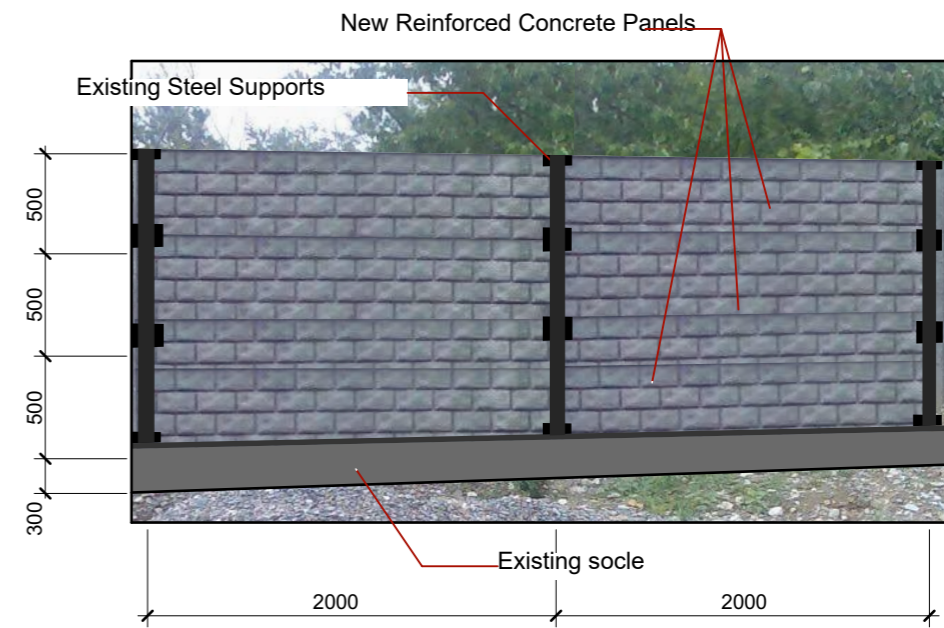
Pam of the Ramp



Section 1-1



Sketch of reinforced concrete panel fence



Rehabilitation of
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Stage:
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Fence

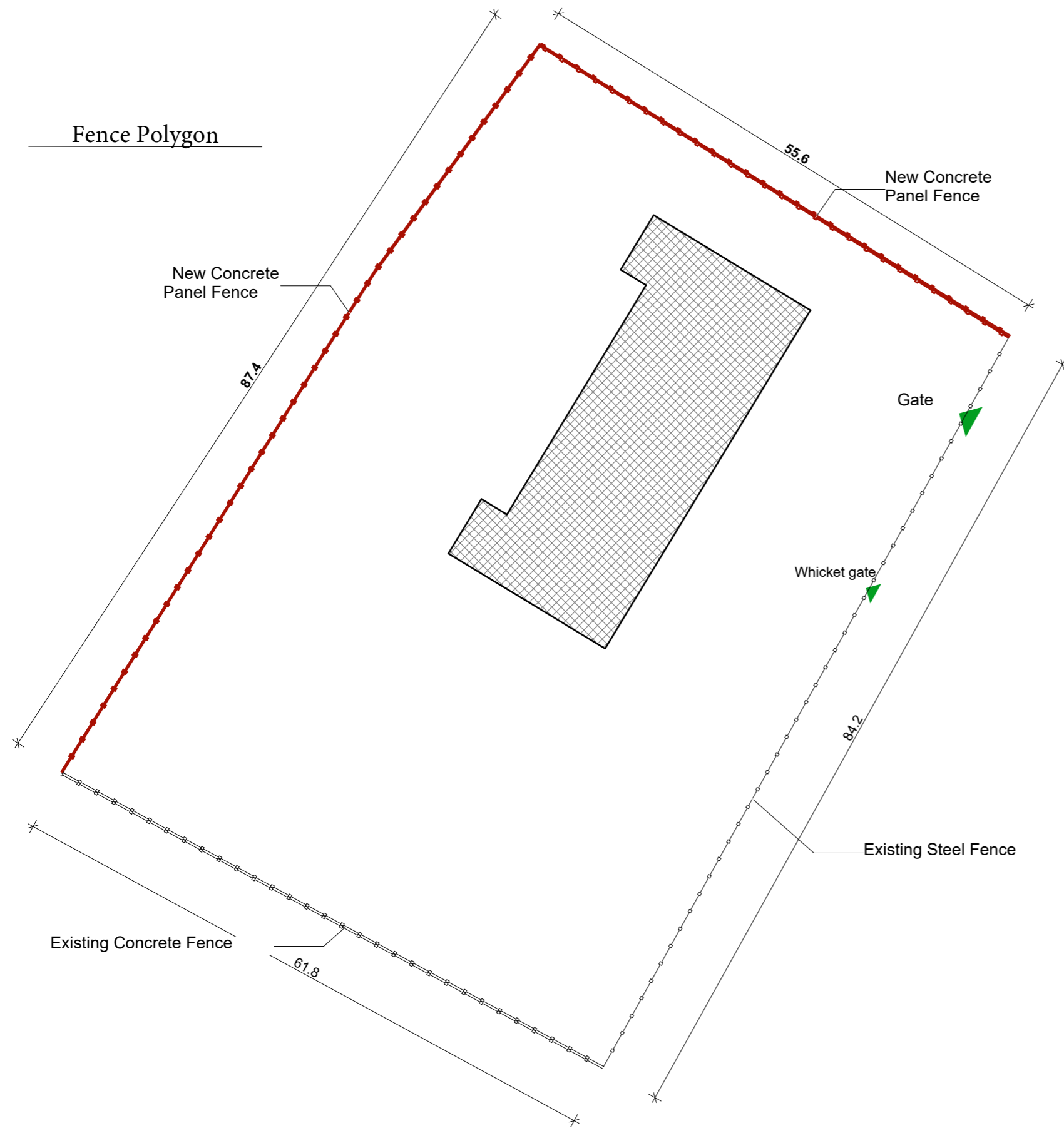
ბ. ქანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava



Format A - 3

Page Pages



Fence Polygon

New Concrete
Panel Fence

New Concrete
Panel Fence

Gate

Whicket gate

Existing Steel Fence

Existing Concrete Fence

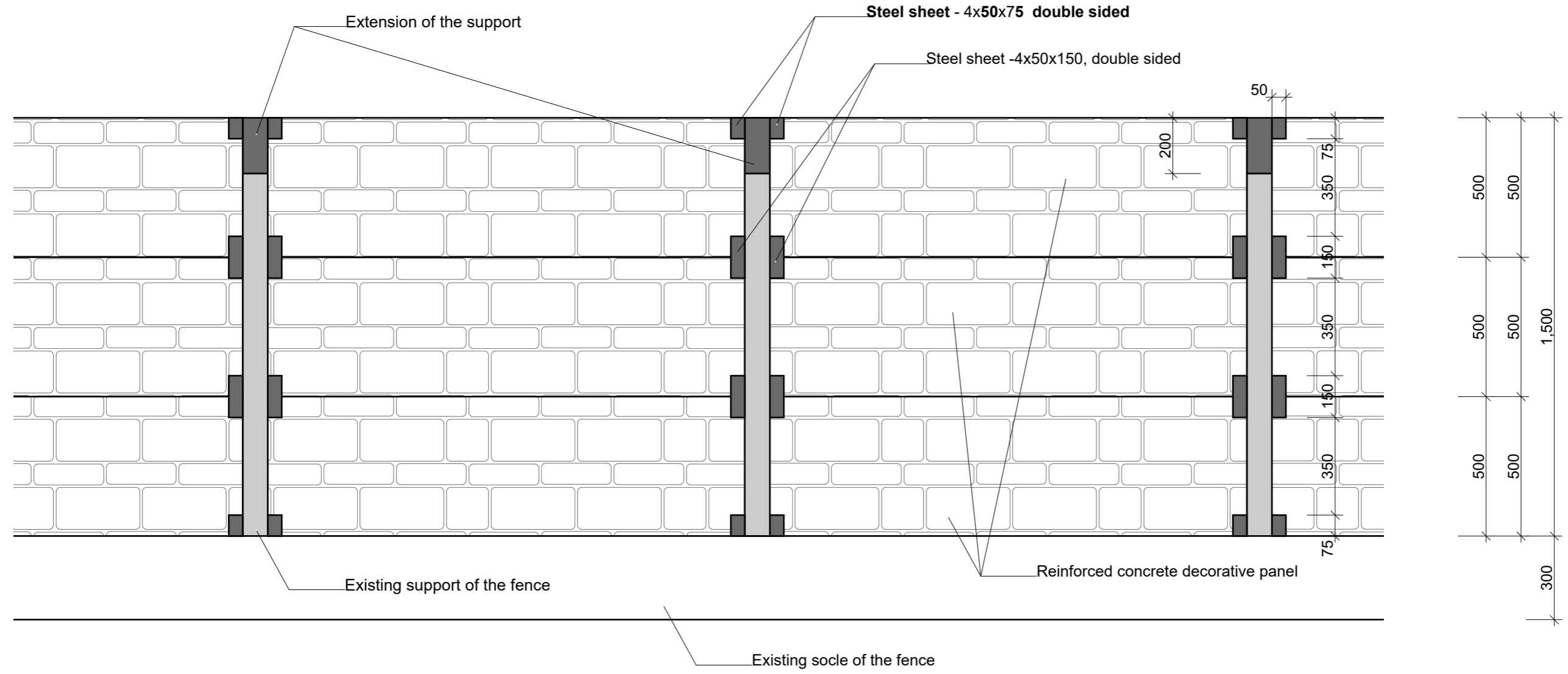
61.8

55.6

87.4

84.2

Fragment of the fence



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address:
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Fragment of fence

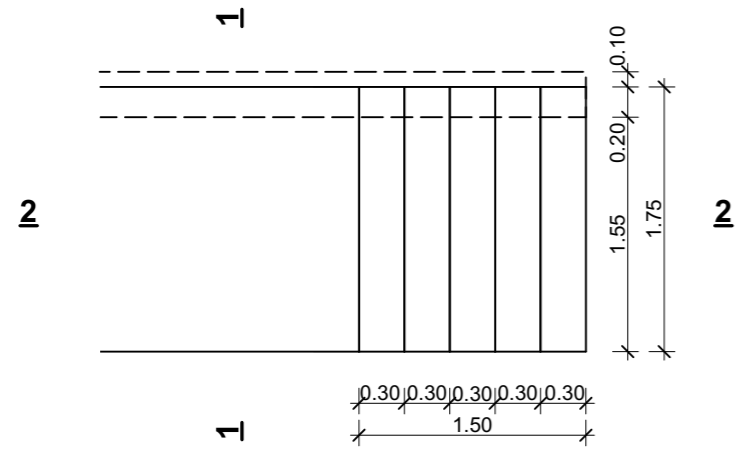
ბ. ჯანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava

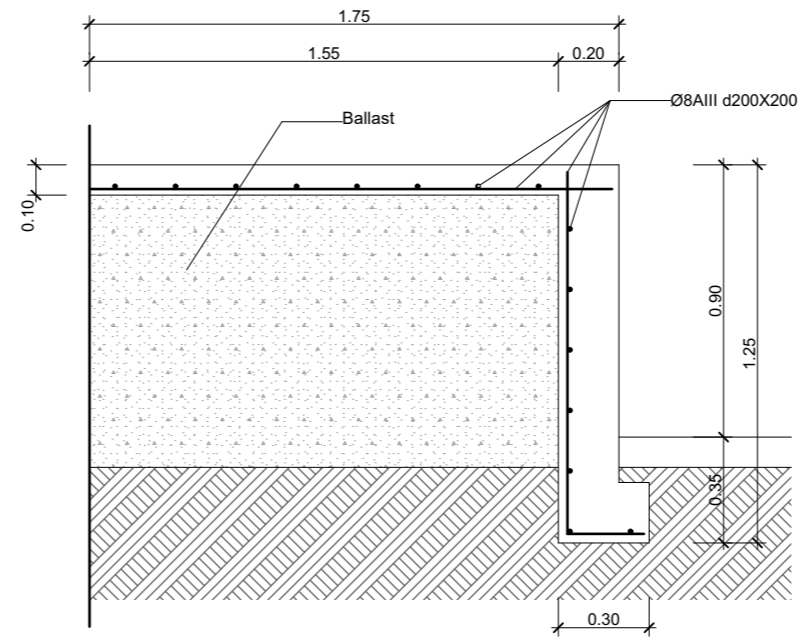


Format A - 3

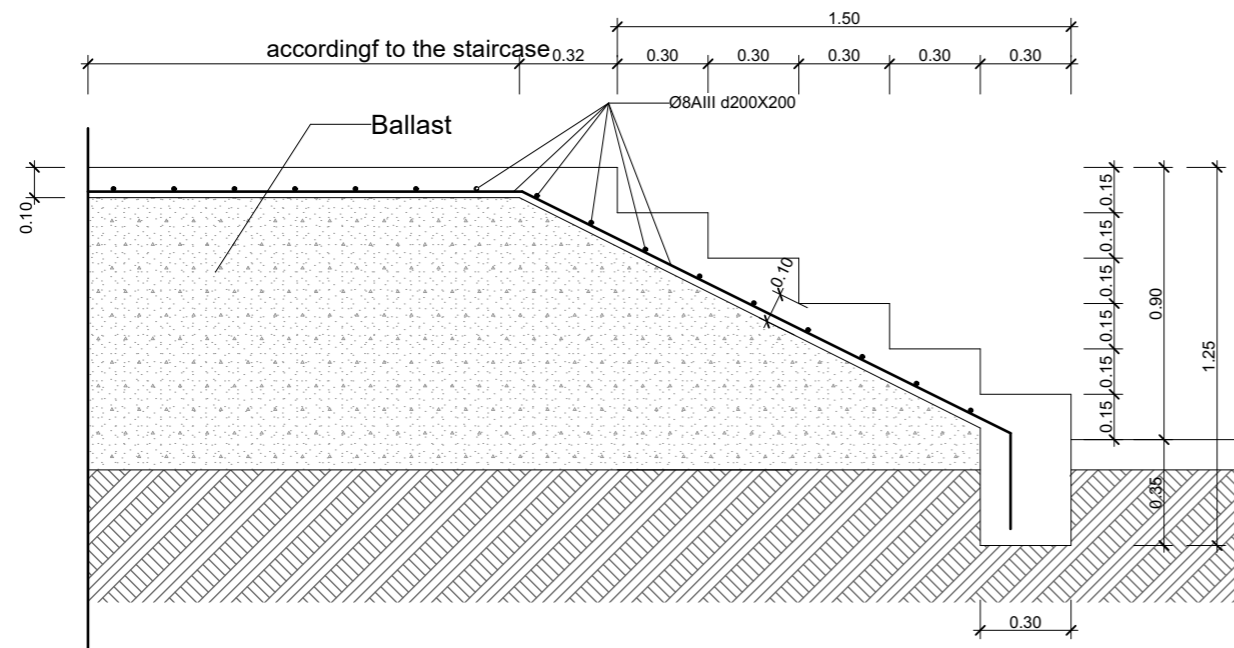
Plan of reinforced concrete mass of staircase



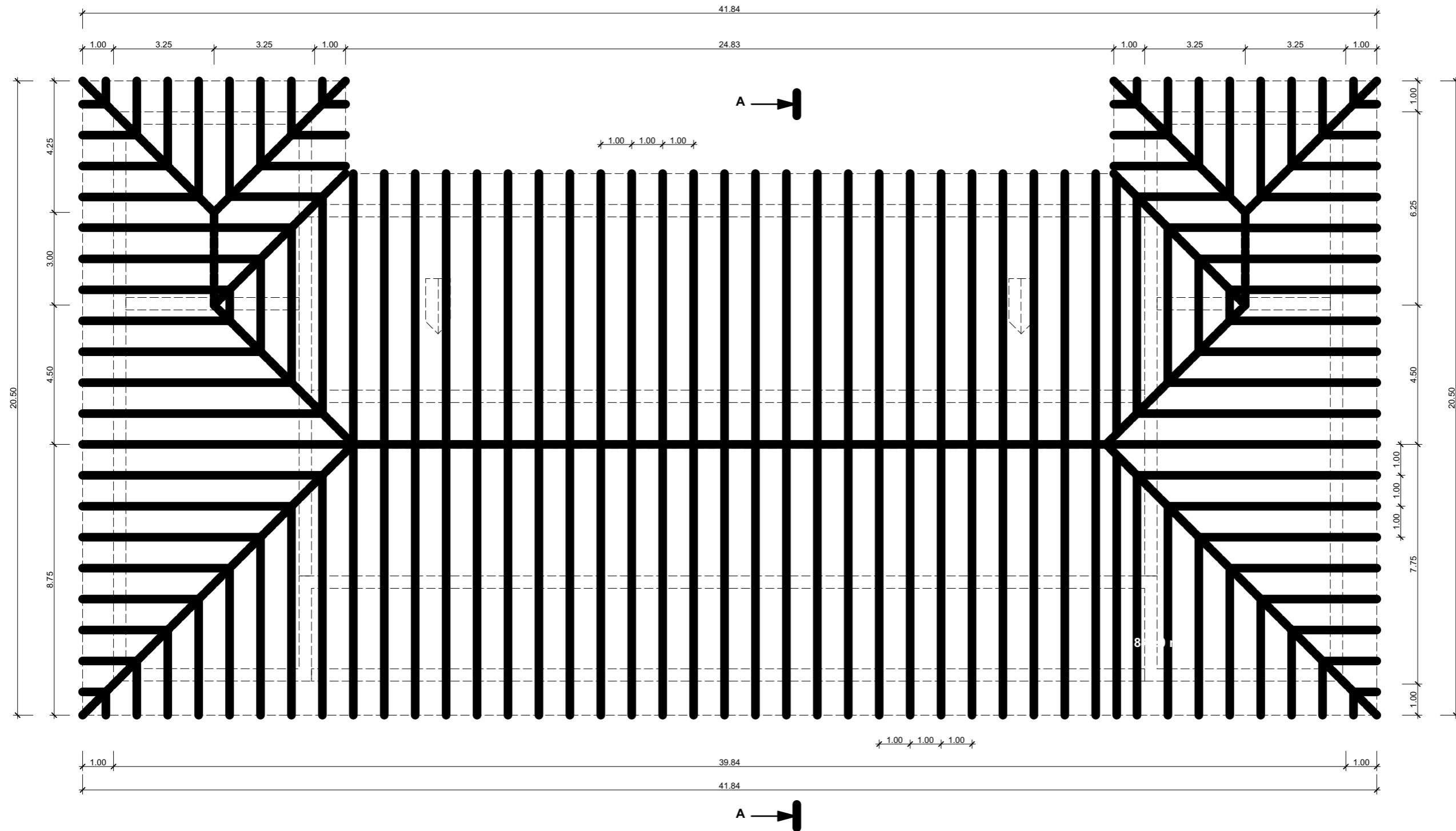
Section 1-1



Section 2-2



Plan of sloping roof structure



Rehabilitation of
Kindergarten #1
in Zugdidi Town

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address:
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Zugdidi

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Plan of the roof
Structure

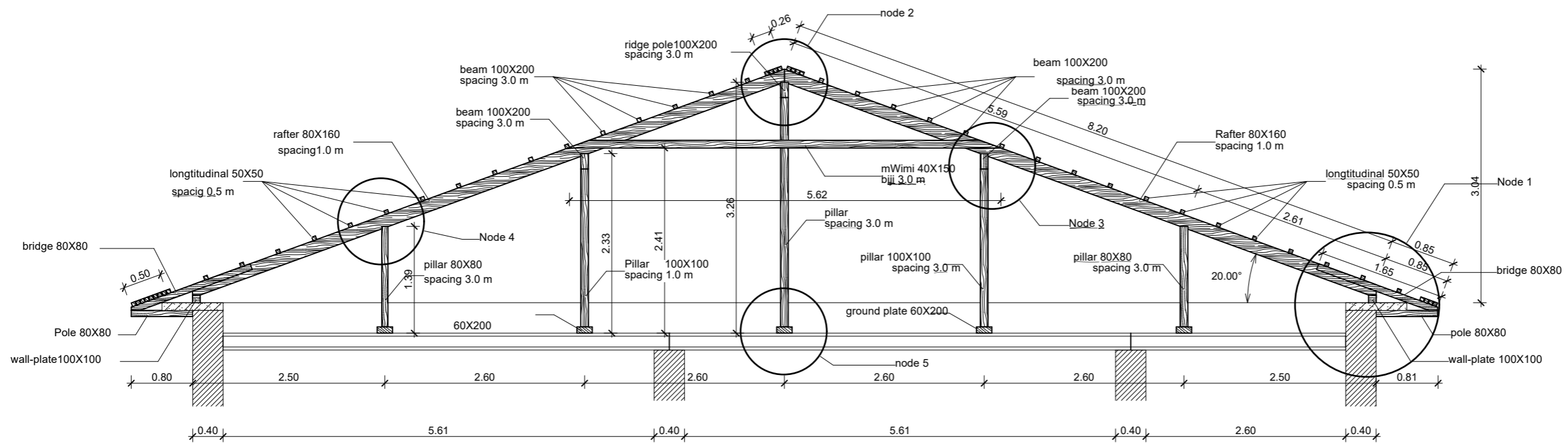
ბ. კანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava



Format A - 3

Section A-A



Project address:
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Zugdidi

Stage:
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Section of the roof A-A

ბ. ქანთარია
B. Qantaria

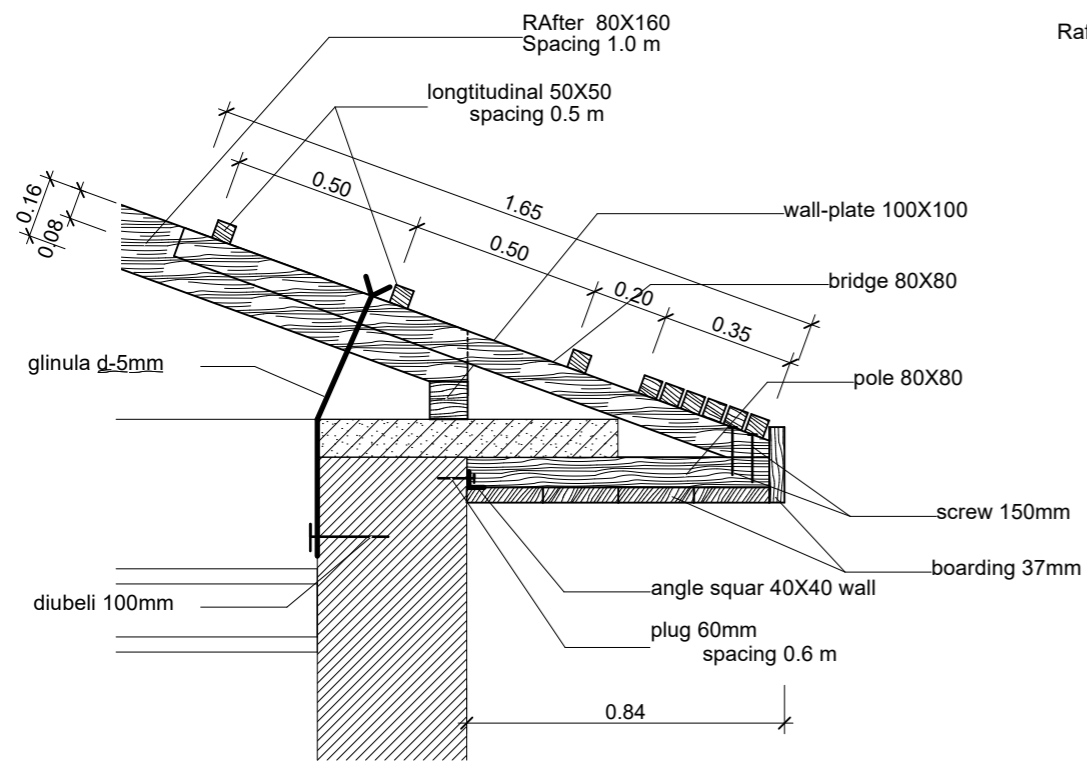
ა. გერგედავა
A. Gergedava



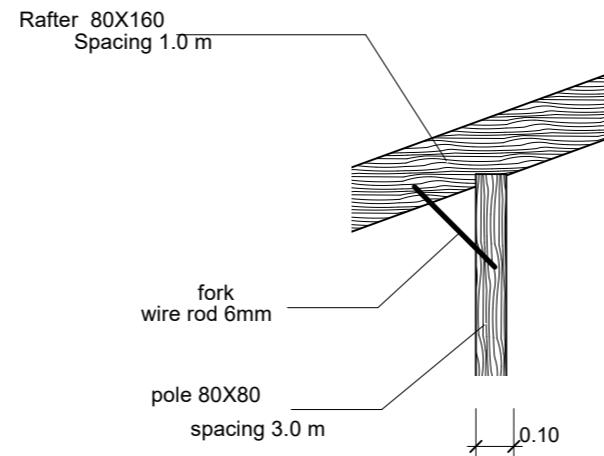
Format A - 3



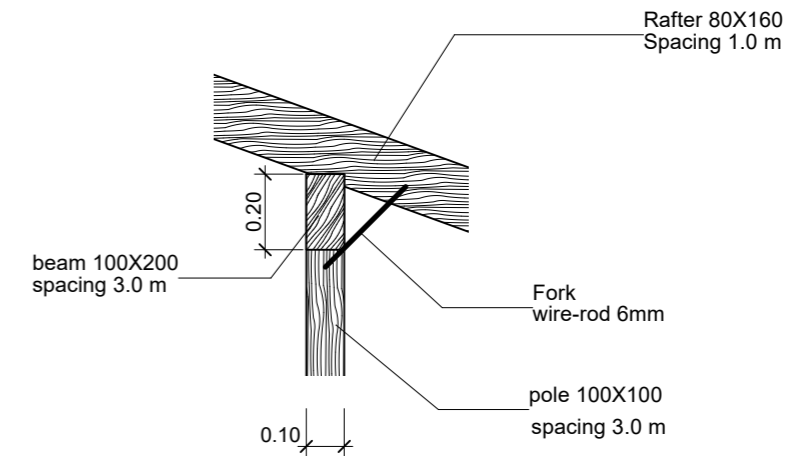
NODE 1



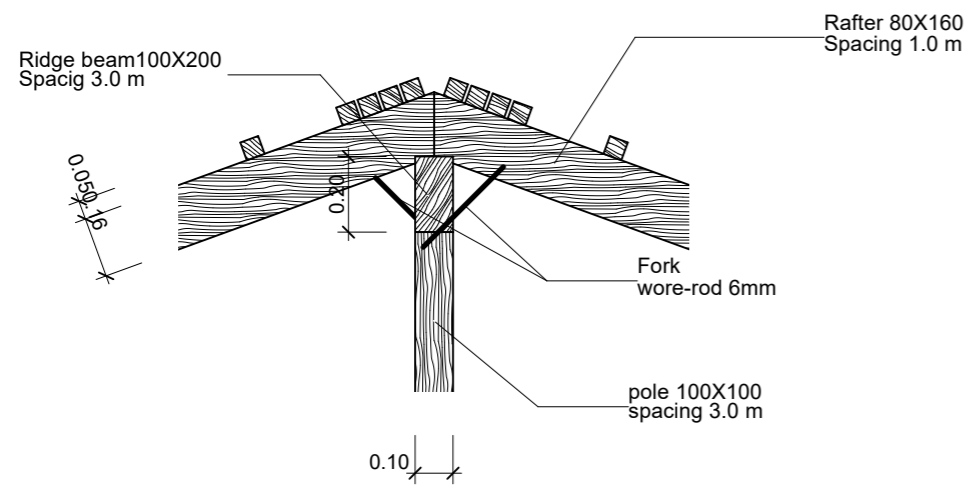
NODE 4



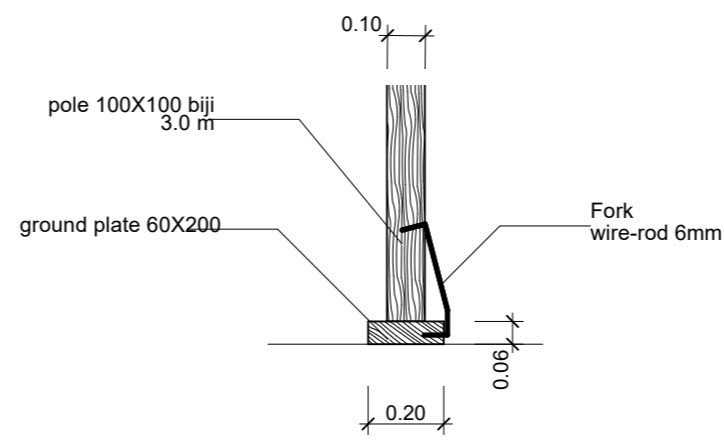
NODE 3



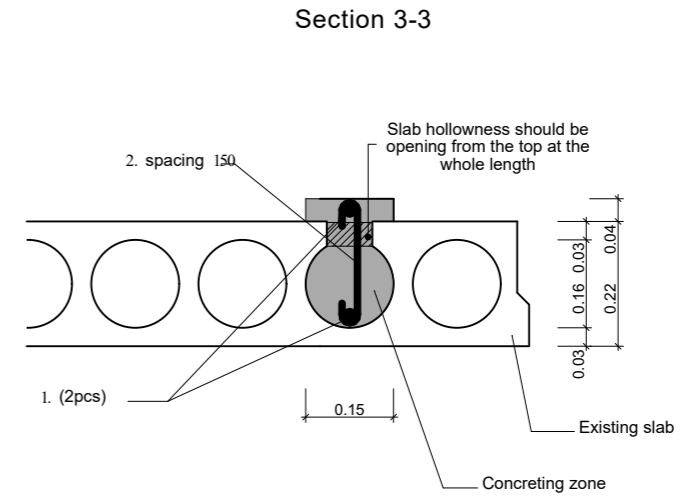
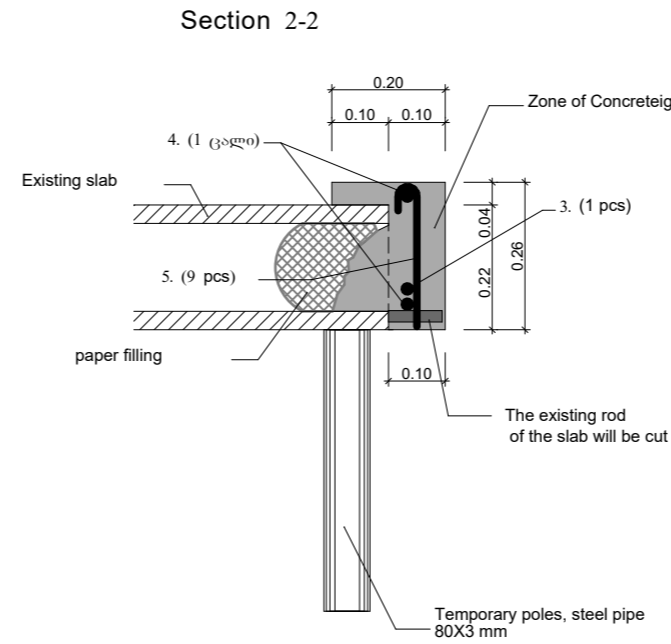
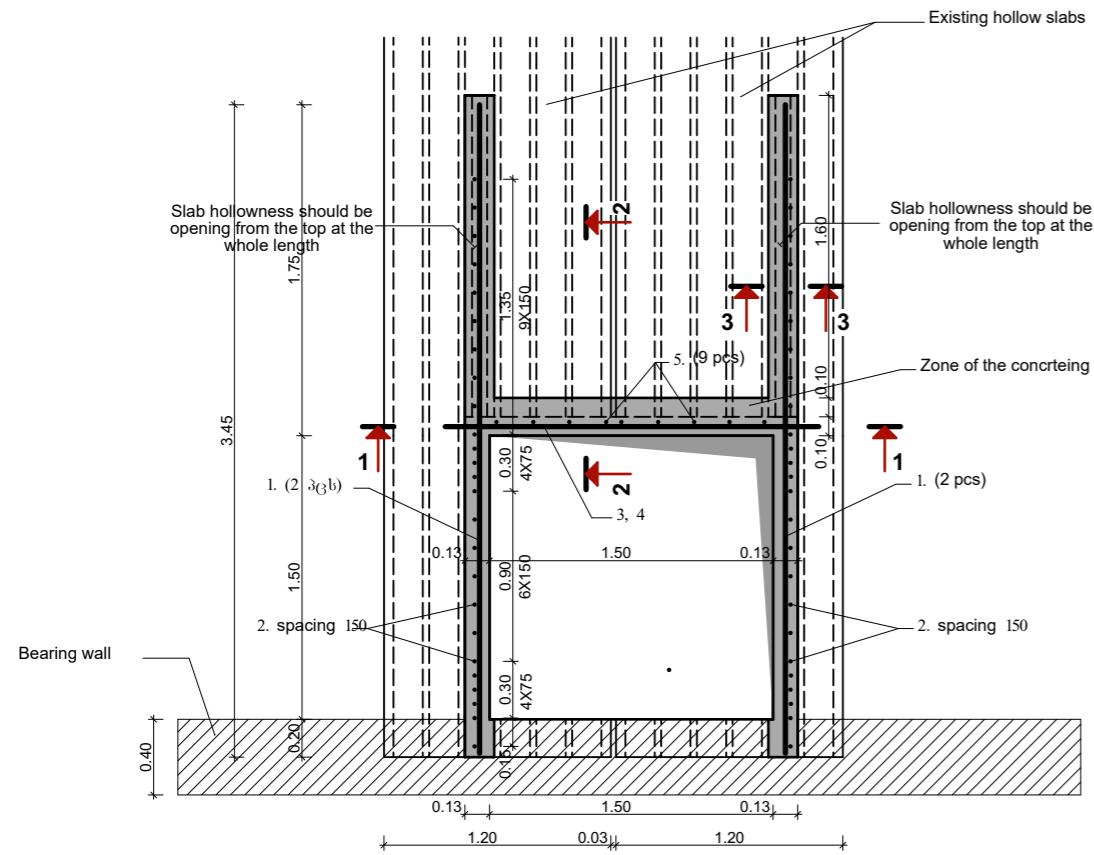
NODE 2



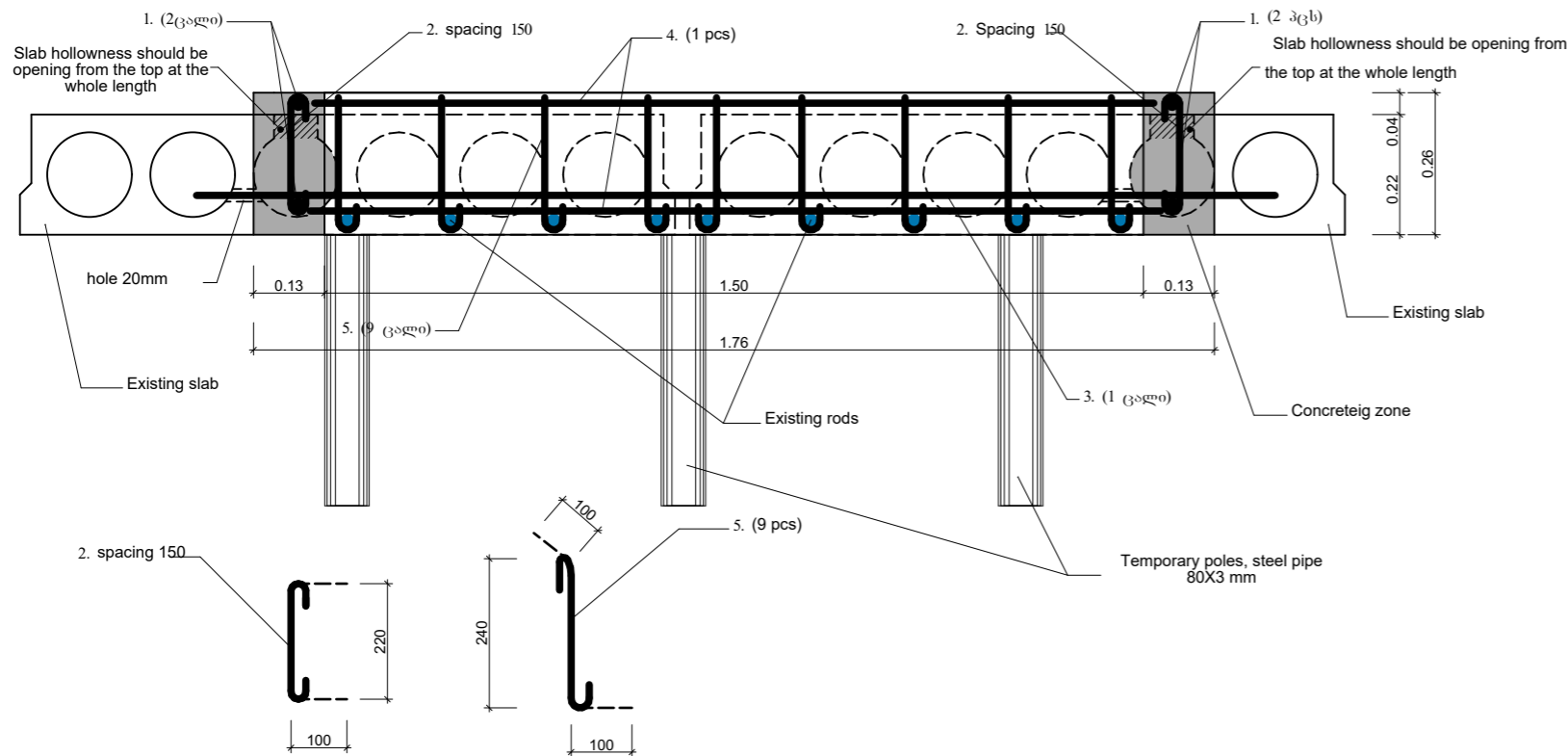
NODE 4



Kitchen Elevator Horizontal Opening Plan



Section 1-1



არმატურის სპეციფიკაცია
Specification of the metal reinforcement

პოზიციის Position	დიაგნოზის Diameter	სიგრძის Length mm	რაოდენობა Quantity	საერთო სიგრძე Total length m	მასალის აღმოკრება				
					პროფილი Profile	საერთო სიგრძე Total length	1 მ.ს. წონა Weight of 1 r/m	არმატურის წონა Weight of reinforcement in kg	
1	32 A III	3430	4	13.7	32 A III	15.7	6.3	99.0	
2	8 A I	420	50	21.0	20 A III	3.08	2.47	7.6	
3	32 A III	2000	1	2.0	8 A I	24.96	0.394	9.8	
4	20 A III	1540	2	3.1					
5	8 A I	440	9	4.0					
ჯამო Total								106.6	9.8
კონკრეტის B30 Concrete B30								83	0.45

Rehabilitation of
Kindergarten #1
in Zugdidi Town

Project address:

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Zugdidi

Stage:
Architectural project

Aperture of
the Kitchen
Elevator

ბ. ქანთარია
B. Qantaria

ს. გერგედავა
A. Gergedava

ფორმატი
Format A - 3

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Page 30

ფურცლები
Pages 46



Electrical part Explanatory Note

The electrical part of the project of this building is based on the architectural, construction, water supply, and sewerage parts of the same project.

-In terms of reliability of electricity supply, the building belongs to category III.

-Voltage parameters: Voltage 400/230 V -Frequency 50Hz- Maximum allowable voltage drop of 5% (2.5% on incoming cable, 2.5% on the project site) in network T N (L1, L2, L3, N, PE). The building is supplied with electricity from the existing network. In order to receive and distribute electricity, an input-distribution shield is installed in the corridor of the building, from where electricity is supplied to the distribution shields and, consequently, all rooms of the building have a separate shield for supplying the kitchen power network.

- Electricity is metered with a three-phase active energy meter, the location of which is determined by local electricity upon the agreement with the electricity service.

Lamps with LED lamps are used for lighting. The height of installation of switches and plugs for children's rooms is 1.8 m above floor level.

The entire electrical network is made of non-halogen copper cable, with double insulation that will run through the ceiling and walls. Cables and wires under the roof and on the ceiling, each of which must be placed separately in the pipes, extracting the appropriate tusses in the walls if necessary.

In the absence of a TN-S network in the system, the system must be adjusted to the TN-C-S network

Grounding of the main distribution shield is provided. The ground resistance should not exceed 4 ohms at any time of the year.

- Installation works must be performed in full compliance with the rules of installation of electrical equipment.

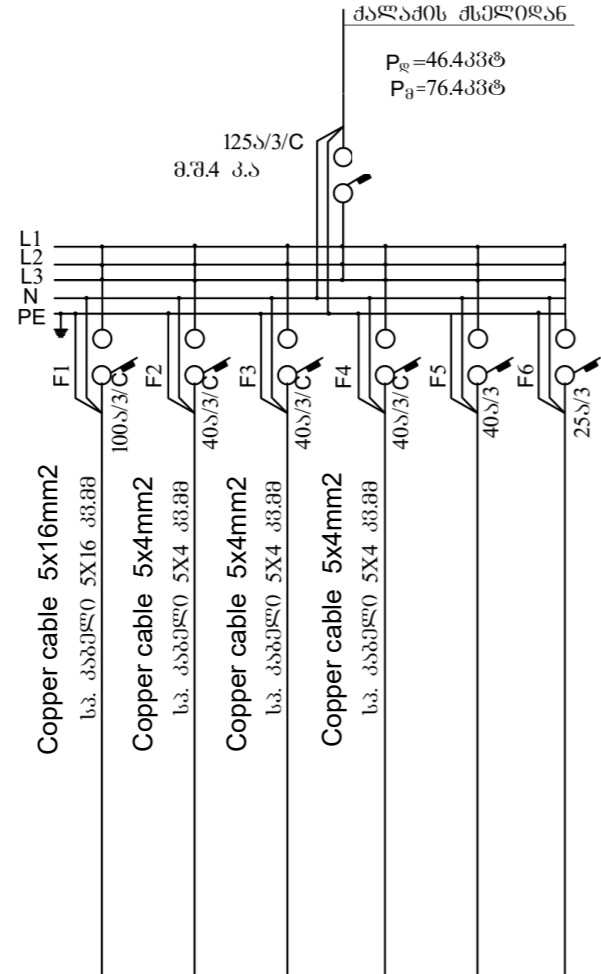
-Calculation of the lighting network envisages the possibility of replacing incandescent lamps in the network.

Specification			
#	List of Items	UoM	Q-ty
1	Inlet-Distribution box,IP rating 43 automatic opening circuit breaker: inlet 150A/3-1 pcs outlet groups - 63 A/3- pcs	set	1
2	Electric distribution box (for lighting) IP rating 30, automatic circuit breaker: inlet 63 A/1- pcs outlet groups - 16A/1-12 pcs, 10A/1-12 pcs	set	3
3	Kitchen high-power shield, IP rating 30 automatic opening circuit breaker : inlet 63A/3-1 pcs, outlet groups 50A/3-1 pcs? 16 A/3-4 pcs	set	1
4	Two-pole outlet socket with the third grounding circuit 10Amp	pcs	104
5	Switch (see specifications on the drawing)	pcs	62
6	Lighting fixture for room LED 18 W	pcs	158
7	Spot Lighting fixture for room LED 18 W	pcs	104
8	Copper cable with double insulation , cross section 3X1.5 m2	meter	
9	Copper cable with double insulation , cross section 3X2.5 m2	meter	
10	Inlet copper cable with double insulation, cross section 5X35 m2	meter	
11	Inlet copper cable with double insulation, cross section 5X16 m2	meter	



The main scheme of the main distribution shield

Main Distribution Shield
მთავარი ე.პ.შ.



Intake line
შემყვანი ხაზი

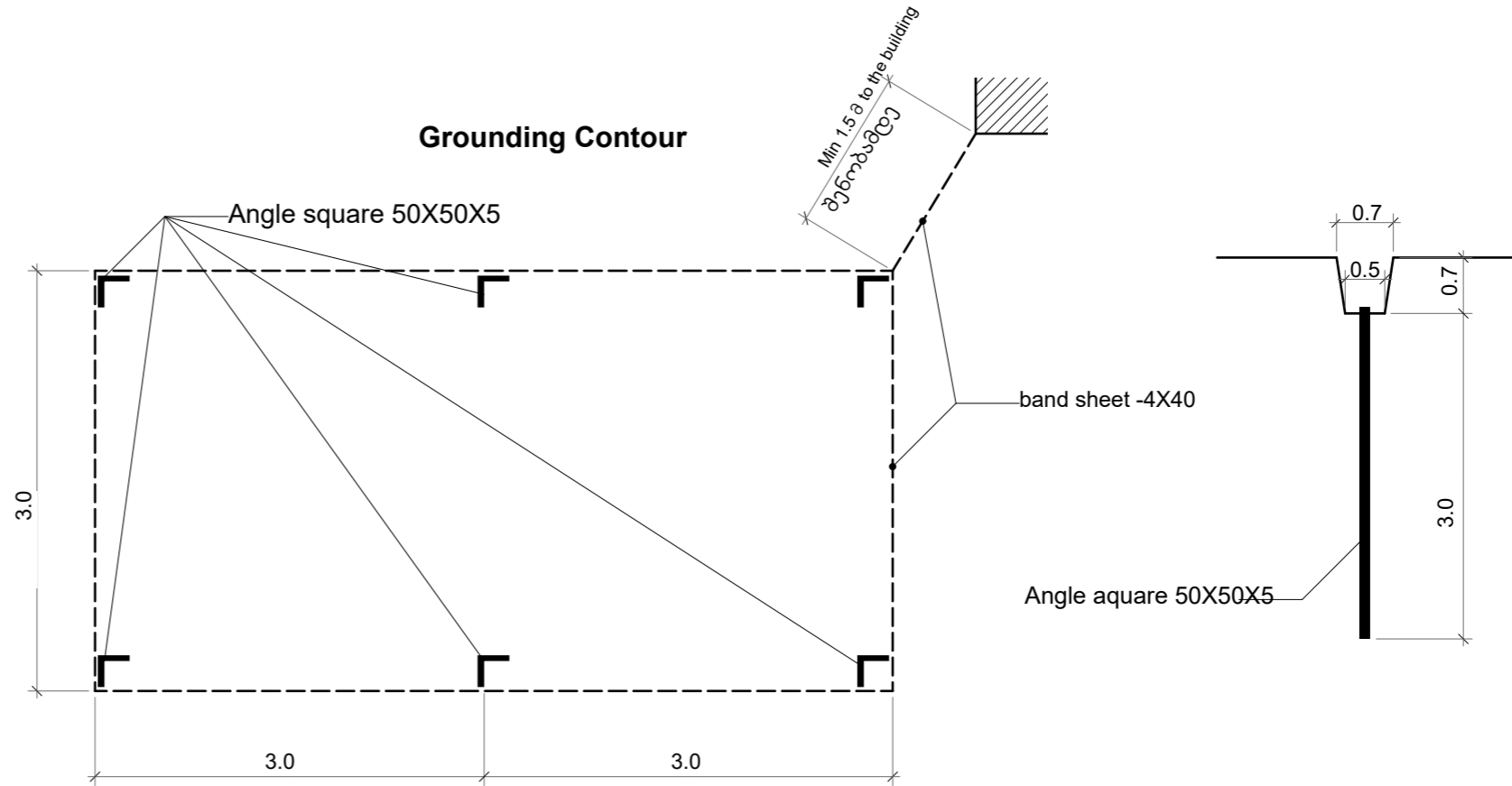
ავტომატის ნომინალური ძაბვა
Nominal current A

Cross-section of cable mm²
საღებლის კვეთი მმ²

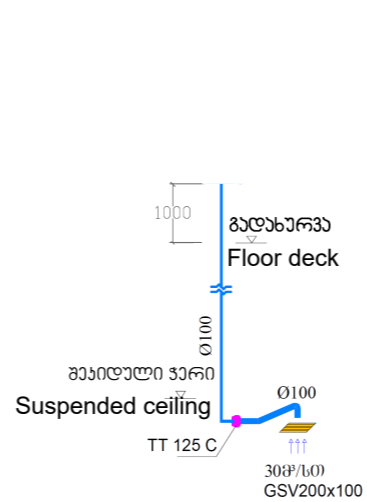
Cable length m
კაბეულის სიგრძე მ.

Number of group ჯგუფის ნომერი	მ-1	მ-2	მ-3	მ-4		
Capacity kWt ძალის სიმძლავრე კვტ.	40.0	13.4	11.0	12.0		
მოთხოვნილი სიმძლავრე კვტ.	20.0	9.0	8.0	9.0		
Required capacity kWt						
მომხმარებლის დასახელება Name of consumer	Distribution shield for kitchen ე.პ.შ. სამზარეულოსთვის	Distribution shield #1 ე.პ.შ.№1	Distribution shield #2 ე.პ.შ.№2	Distribution shield #3 ე.პ.შ.№3	Reserve რეზერვი	

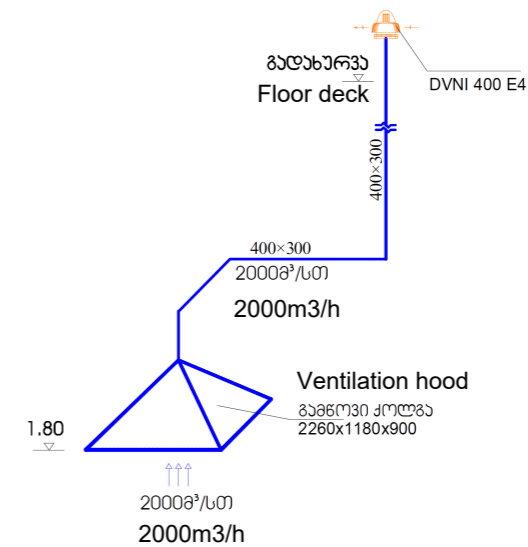
Grounding Contour



Ventilation Scheme of WC



Ventilation Scheme of Kitchen



Rehabilitation of
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Zugdidi

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The scheme of
the main
distribution
shield;
Grounding
Contour

ბ. ქანთარია
B. Qantaria

ა. გერგედავა
A. Gergedava

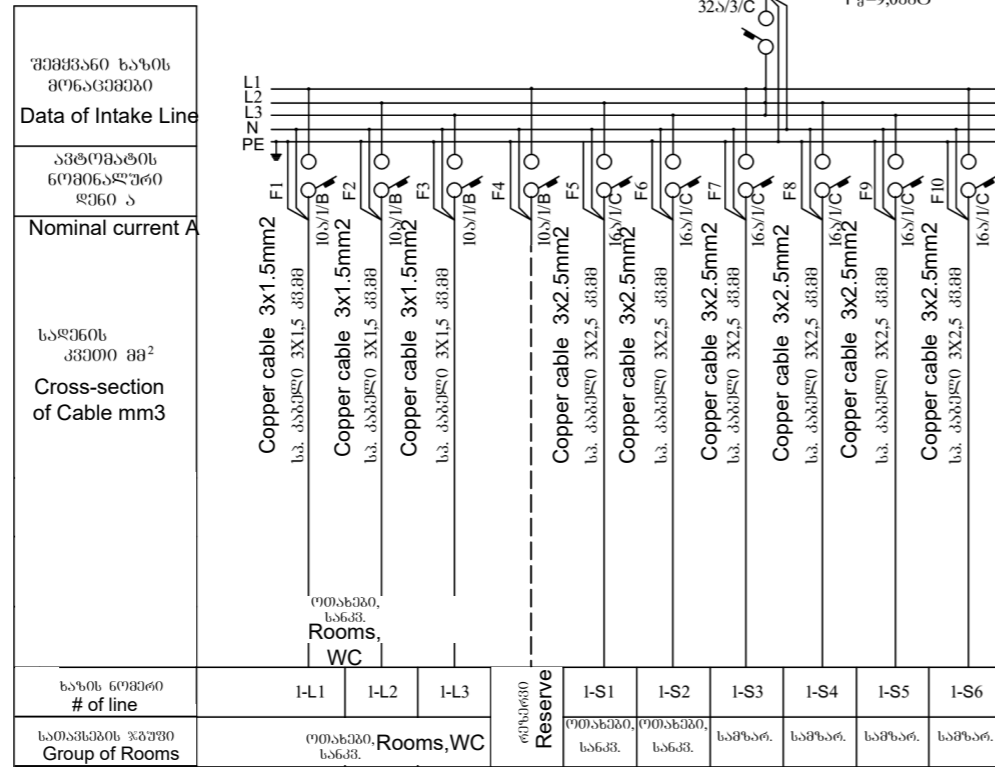


Format A - 3

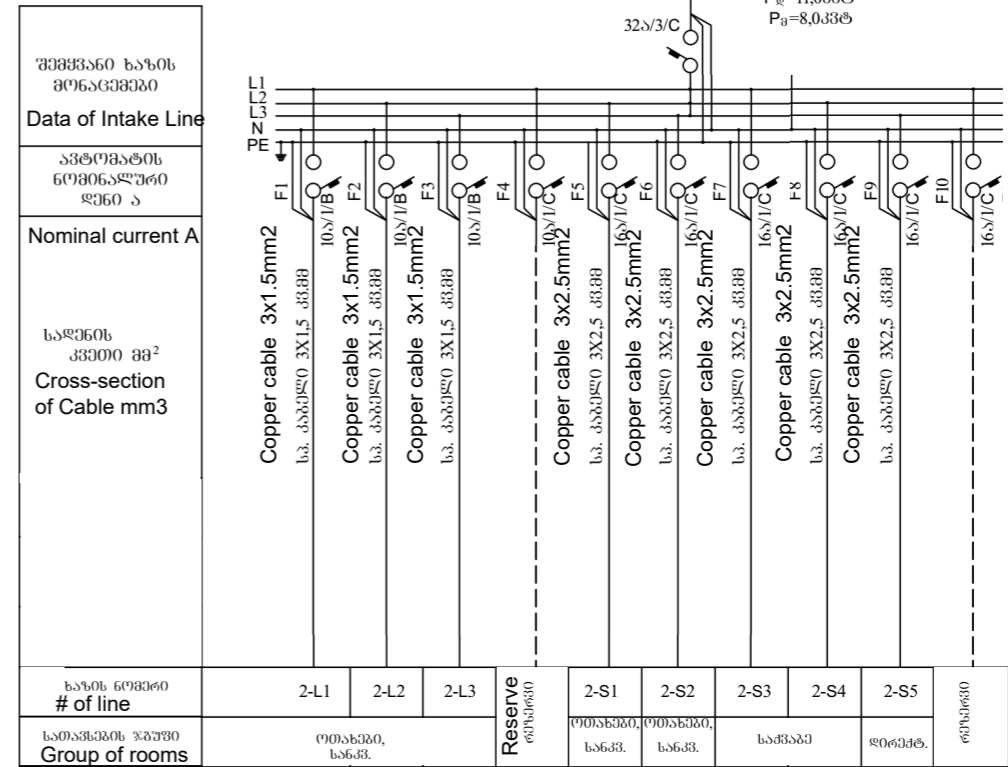
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შ.პ.პ. №1
Main Distribution Shield #1



შ.პ.პ. №2



Rehabilitation of Kindergarten #1 in Zugdidi Town

Project address:

Georgia, Zugdidi

Stage: Architectural project

Principal Schemes of the Distribution Shields on the Floors

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B. Qantaria

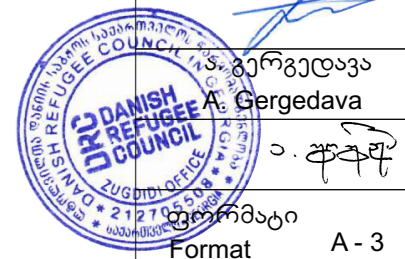
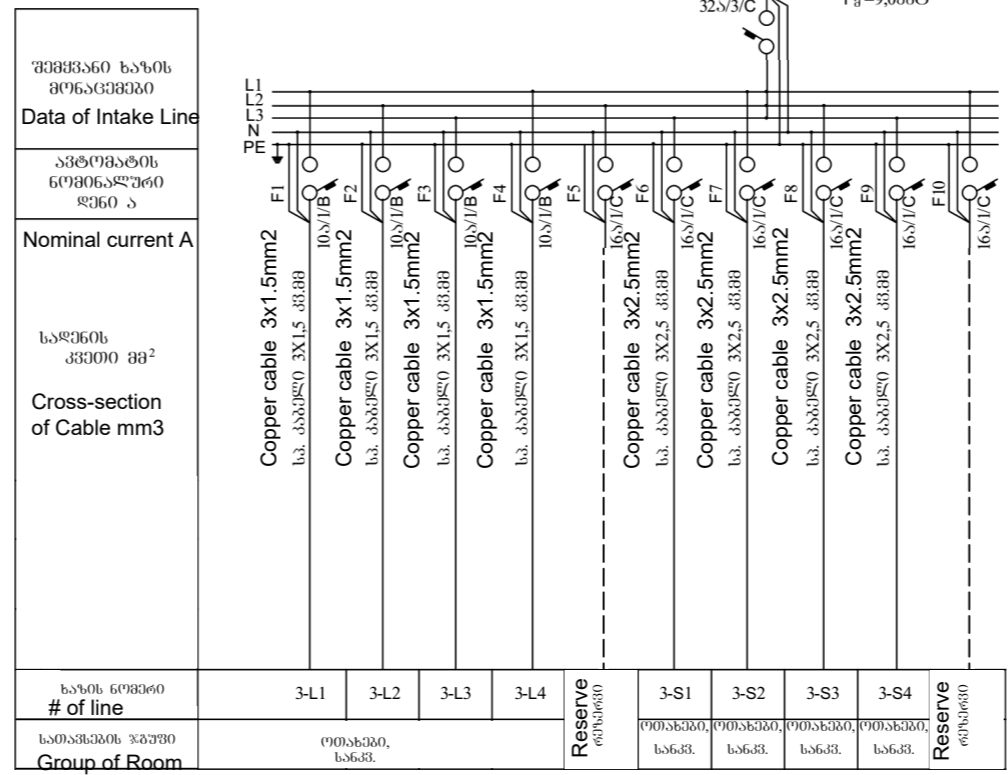
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A. Gergedava

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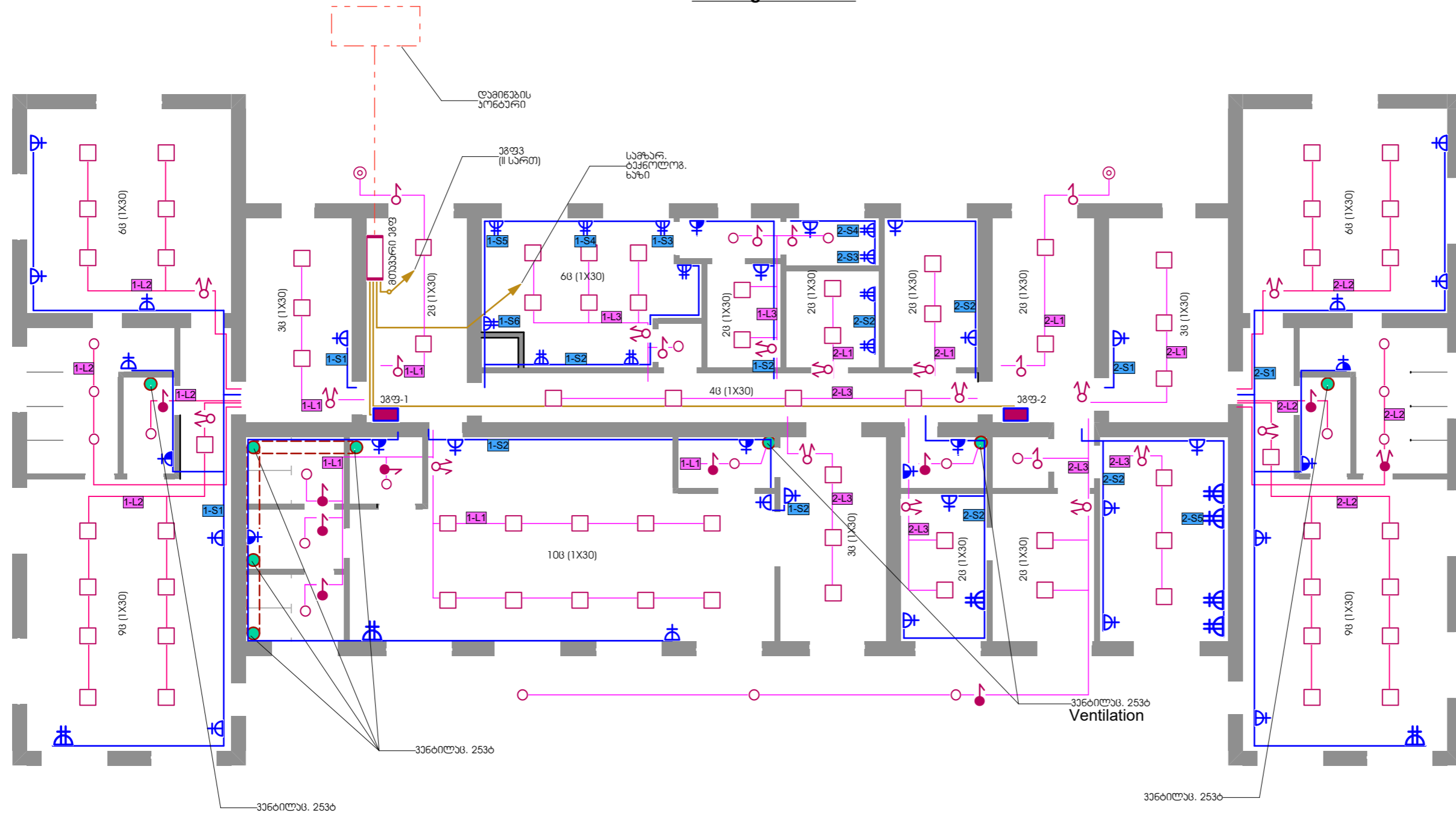
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შ.პ.პ. №3



Plan of electrical lighting, outlets, and electric network on the ground floor

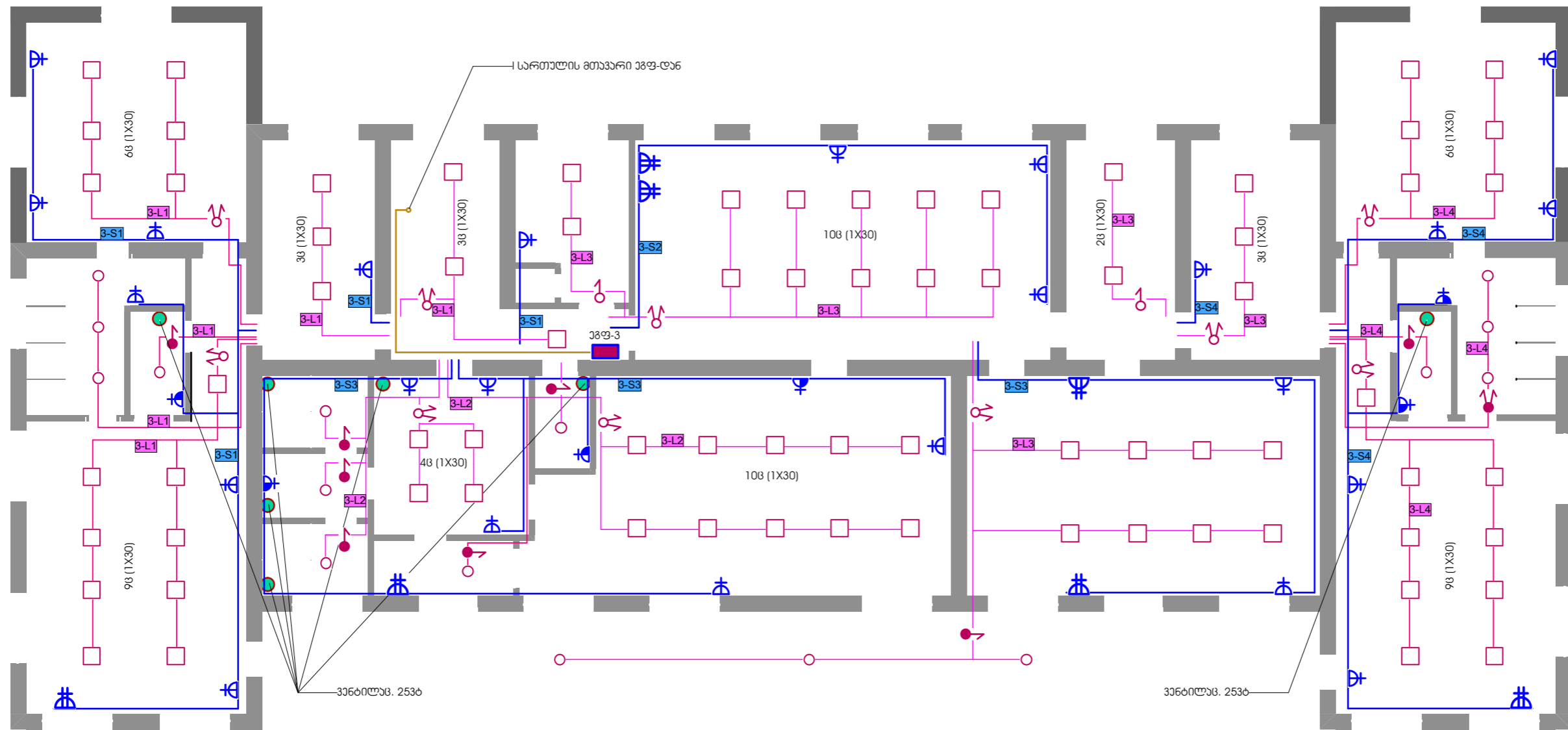


პირობითი აღნიშვნები: Legend:

- მთავარი გადანაწილებელი ფარი
Main distribution shield
- სატალის გადანაწილებელი ფარი
Distribution shield of the floor
- ⚡ საბაზალო როზაბი ორპოლუსიანი
Double pole socket
- ⚡ საბაზალო როზაბი ერთპოლუსიანი
Single pole socket
- ⚡ საბაზალო როზაბი ჰერმეტიზირებული
Sealed socket
- ⚡ ანტიპარალელური ორპოლუსიანი
Double pole switch
- ⚡ ანტიპარალელური ორპოლუსიანი ჰერმეტიზირებული
Double pole sealed switch
- ⚡ ანტიპარალელური ერთპოლუსიანი
Single pole switch
- ⚡ ანტიპარალელური ერთპოლუსიანი ჰერმეტიზირებული
Single pole sealed switch
- ღარიანი ლამპის საყრდენი
LED lighting for ceiling
- ღარიანი ლამპის საყრდენი
LED spot lighting for ceiling
- ⊙ ლამპის საყრდენი ორპოლუსიანი ჰერმეტიზირებული
LED lighting wall lamp sealed



Plan of electrical lighting, outlets, and electric network on the second floor



პირობითი აღნიშვნები:

- | | | | |
|---|---|---|--|
|  | მთავარი გამანაწილებელი ფარი
Main distribution shield |  | აგორმთავალი ორპოლუსა
Double pole switch |
|  | სართლის გამანაწილებელი ფარი
Distribution shield of the floor |  | აგორმთავალი ორპოლუსა ჰერმეტიზებული
Double pole sealed switch |
|  | საბაჟსალო როზაბი ორპოლუსიანი
Double pole socket |  | აგორმთავალი ერთპოლუსა
Single pole switch |
|  | საბაჟსალო როზაბი ერთპოლუსიანი
Single pole socket |  | აგორმთავალი ერთპოლუსა ჰერმეტიზებული
Single pole sealed switch |
|  | საბაჟსალო როზაბი ჰერმეტიზებული
Sealed socket |  | წარის ლედ საათი
LED lighting for ceiling |
| | |  | წარის ლედ საათი წარბილოკავანი
LED spot lighting for ceiling |
| | |  | ლედ საათი ბრა ჰერმეტიზებული
LED lighting wall lamp sealed |

Rehabilitation of
Kindergarten #1
in Zugdidi Town

Project address:

Georgia,
Zugdidi

Stage:
Architectural project

Plan of electrical
lighting, outlets, and
electric network on
the second floor

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B. Qantaria

ს. გერგედავა
S. Gergedava



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Water Supply System

The water supply of the building is provided from the town's main water supply line in the street. Water is supplied by the inlet under the slab of the first floor.

The estimated water consumption of the three groups of the kindergarten, the kitchen, and the different points of the staff's facilities is 3.4 m³ / hour.

The building water supply network is made of polypropylene pipes and fittings. Cold and hot water pipes should be sealed with thermal insulation. First, the thermal insulation on the 2-meter pipe must be covered, then the thermal insulation of mineral wool with a thickness of 5 cm (pressed) must be applied.

The building's domestic hot water supply is provided by two-circuit heating boilers, creating a stable supply in the receiver.

Sewerage System

The internal sewerage network of the building is represented by the main collector of the yard and the internal local networks of the building. The yard collector is connected to the street sewer collector on the street, the bottom of which should be further specified during the construction phase.

Inside the building, local sewer pipes run under the connecting girder and under the concrete slab of the floor, the sewer network is completed with 150, 100, and 50 mm polypropylene pipes and corresponding fittings. In order to ventilate the network, a 50 mm pillar is installed at the end of all branches, which is 0.2 m away from the ceiling, and finally stops in a ventilated attic.

Sewerage horizontal sections of the network are arranged according to the following minimum slope: 0.01 for 150 mm pipe, -0.015 for 100 mm pipe; For 50 mm pipes - 0.03. Monolithic reinforced concrete sewage manholes can be replaced with assembled structures.

Specification

Name of Item	UoM	Quantity
Water Supply		
Wash basin	Set	6
Wash basin for children	Set	20
Wash basin with accessories for people with disabilities	Set	1
Kitchen sink	Set	11
Mixing tap for wash basin	Set	20
Mixing tap for wash basin for disabled	Set	1
Mixing tap for kitchen sink	Set	11
Toilet bowl for children	Set	20
Toilet bowl	Set	2
Toilet bowl with accessories for disabled	Set	1
Tray for shower room 90X90cm	Set	6
Mixing tap for shower	Set	6
Plastic hot water pipe fiberglass 25 mm	m	164
Plastic hot water pipe fiberglass 32 mm	m	88
Plastic cold water pipe 25 mm	m	204
Plastic cold water pipe 40 mm	m	140
Valve 40	pcs	6
Valve 25	pcs	54
Fittings 60% of the cost of the pipes		
Sewarage		
Plastic sewer heavy gauge pipe 50 mm	m	168
Plastic sewer heavy gauge pipe 100 mm	m	154
Plastic sewer heavy gauge pipe 150 mm	m	135
Stainless steel drain 50 mm	m	24
Sewage manhole	Set	6
Fittings 60% of the cost of the pipes		

Rehabilitation of
Kimdergarten #1
in Zugdidi Town

Project
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Stage:
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Explanatory Note

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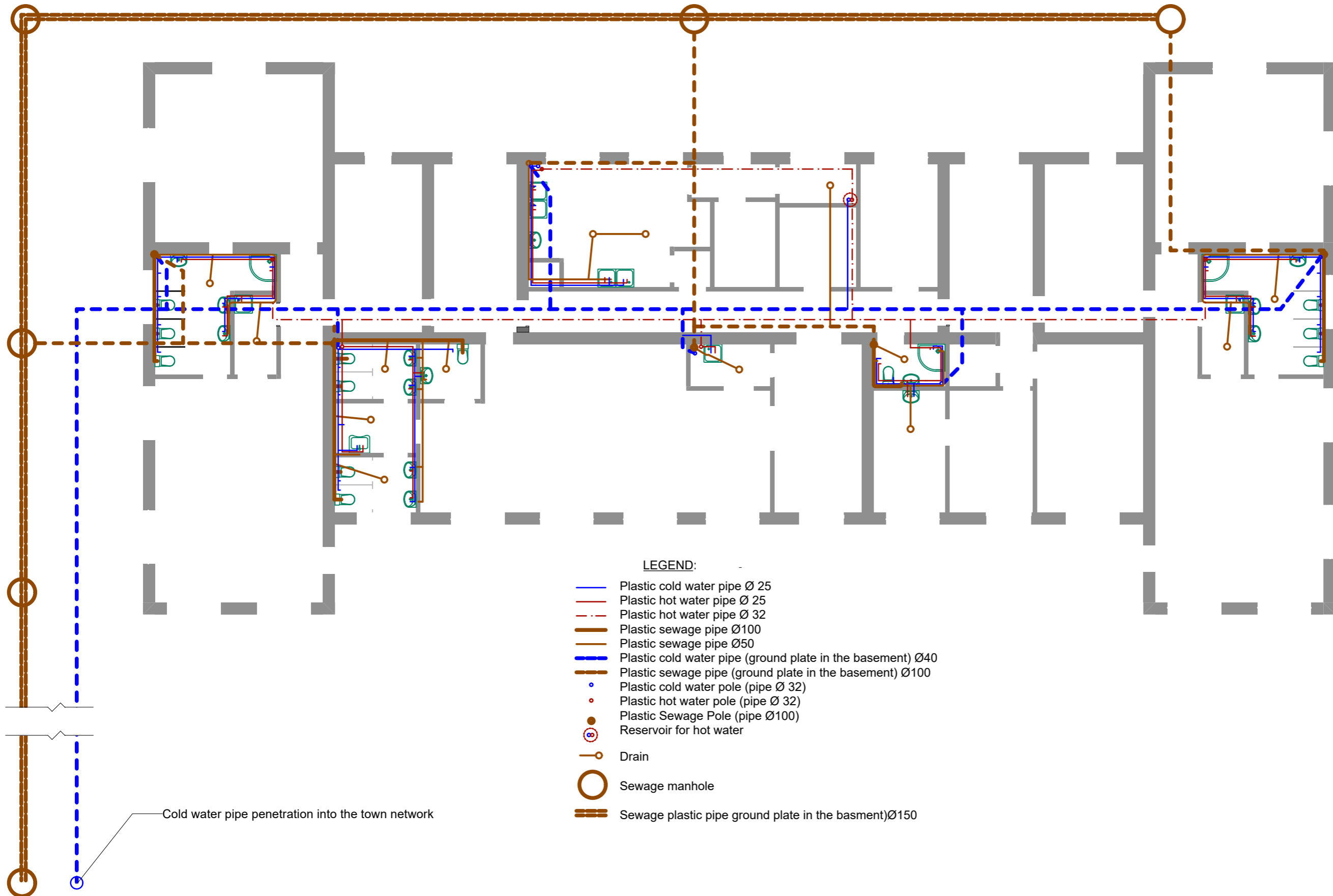
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Scheme of water supply and sewerage systems of the building on the I floor



LEGEND:

- Plastic cold water pipe Ø 25
- Plastic hot water pipe Ø 25
- - - Plastic hot water pipe Ø 32
- Plastic sewage pipe Ø100
- Plastic sewage pipe Ø50
- - - Plastic cold water pipe (ground plate in the basement) Ø40
- - - Plastic sewage pipe (ground plate in the basement) Ø100
- Plastic cold water pole (pipe Ø 32)
- Plastic hot water pole (pipe Ø 32)
- Plastic Sewage Pole (pipe Ø100)
- ⊙ Reservoir for hot water
- ⊙ Drain
- ⊙ Sewage manhole
- = Sewage plastic pipe ground plate in the basement)Ø150

Cold water pipe penetration into the town network

Rehabilitation of
Kindergarten #1
in Zugdidi Town

Project
address:
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Zugdidi

Stage:
Architectural project

Scheme of water
supply and
sewerage
systems of the
building on the I
floor

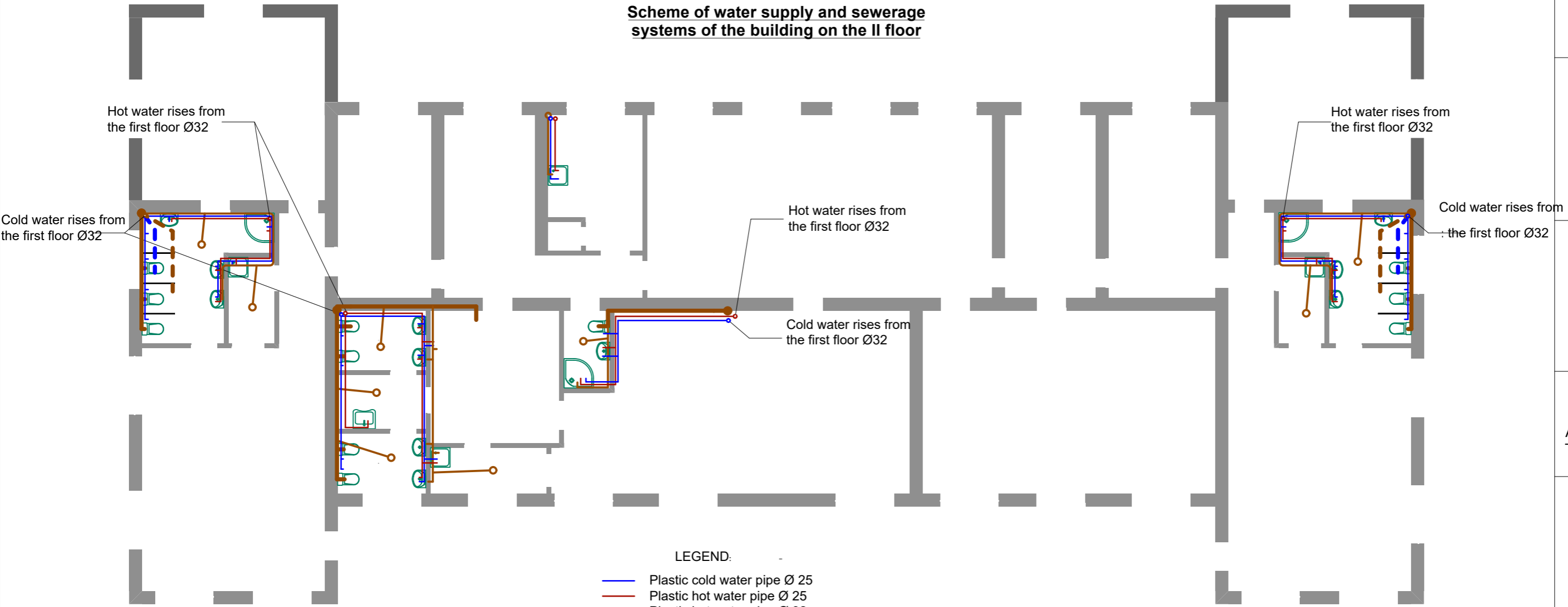
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**Scheme of water supply and sewerage
systems of the building on the II floor**



LEGEND:

- Plastic cold water pipe Ø 25
- Plastic hot water pipe Ø 25
- - - Plastic hot water pipe Ø 32
- Plastic sewage pipe Ø100
- Plastic sewage pipe Ø50
- - - Plastic cold water pipe (ground plate in the basement) Ø40
- - - Plastic sewage pipe (ground plate in the basement) Ø100
- Plastic cold water pole (pipe Ø 32)
- Plastic hot water pole (pipe Ø 32)
- Plastic Sewage Pole (pipe Ø100)
- Reservoir for hot water
- └─┘ Drain

Project address:

Georgia,
Zugdidi

Stage:
Architectural project

Scheme of water
supply and
sewerage
systems of the
building on the II
floor

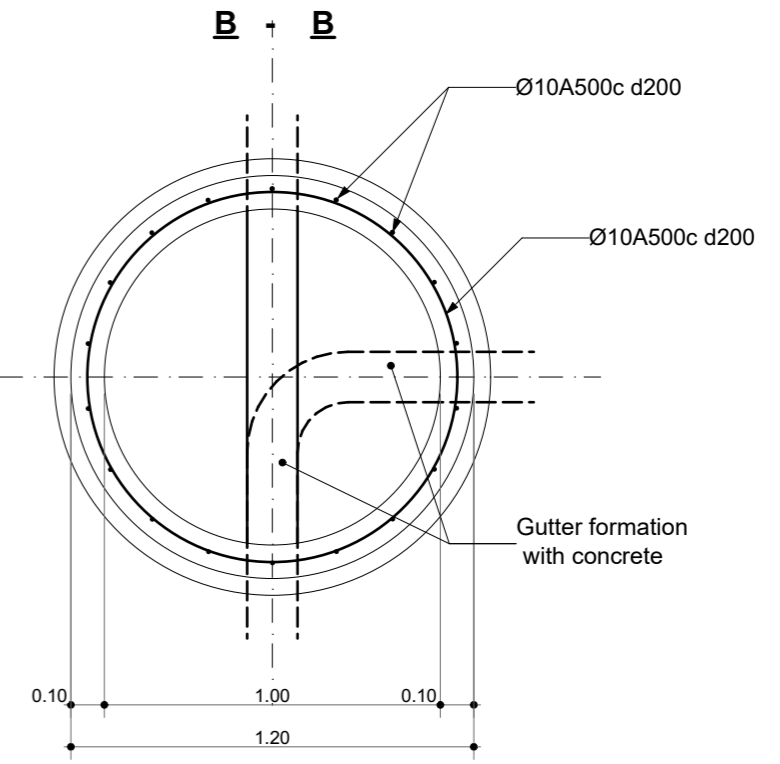
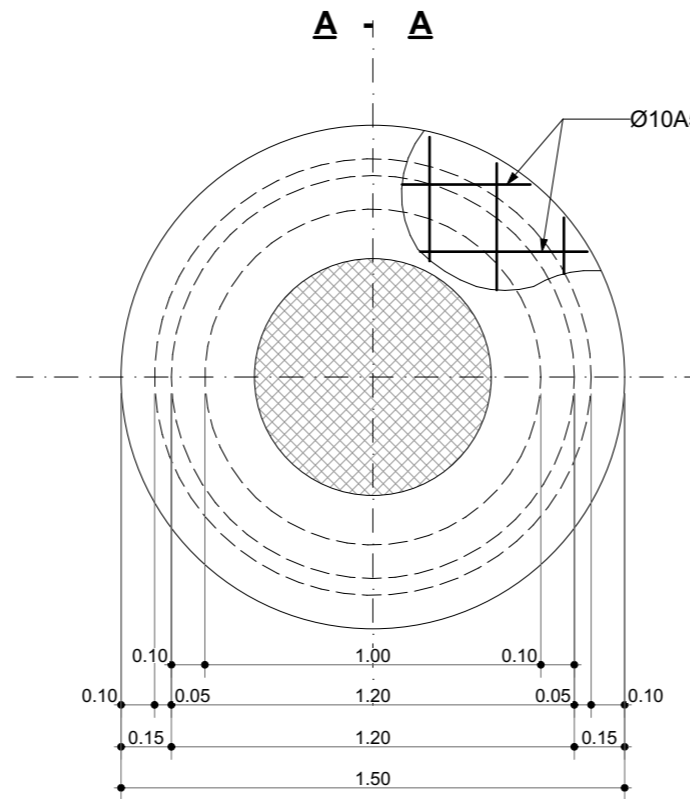
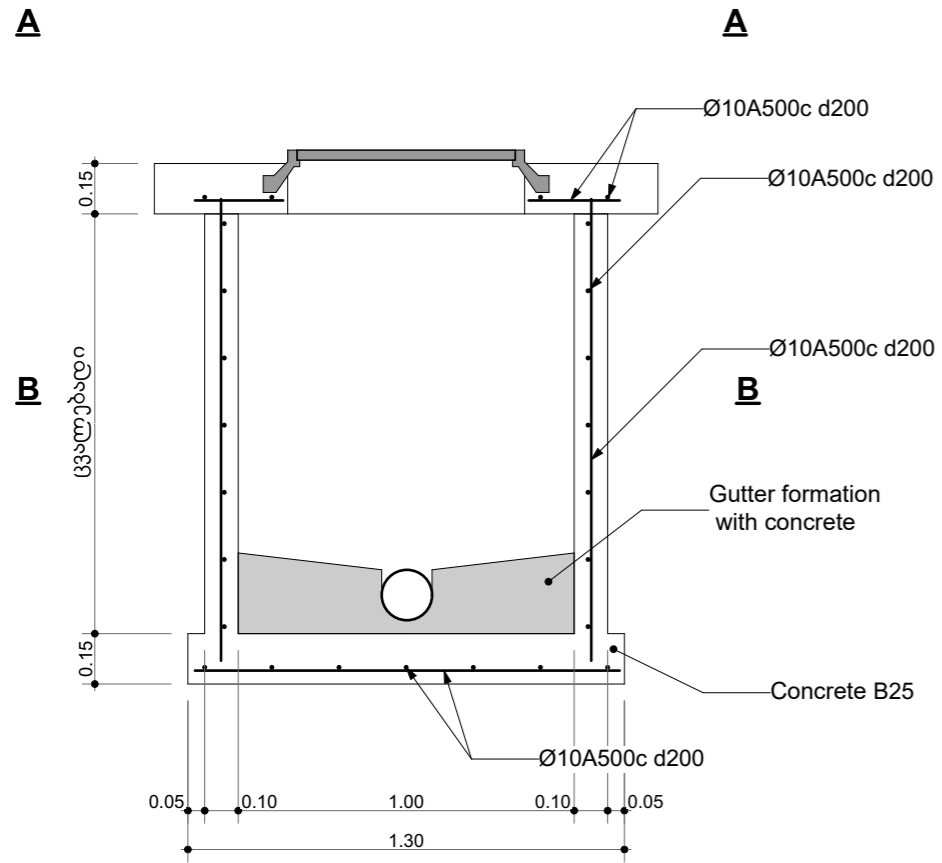
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Sewage Manhole



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Stage:
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Sewage manhole

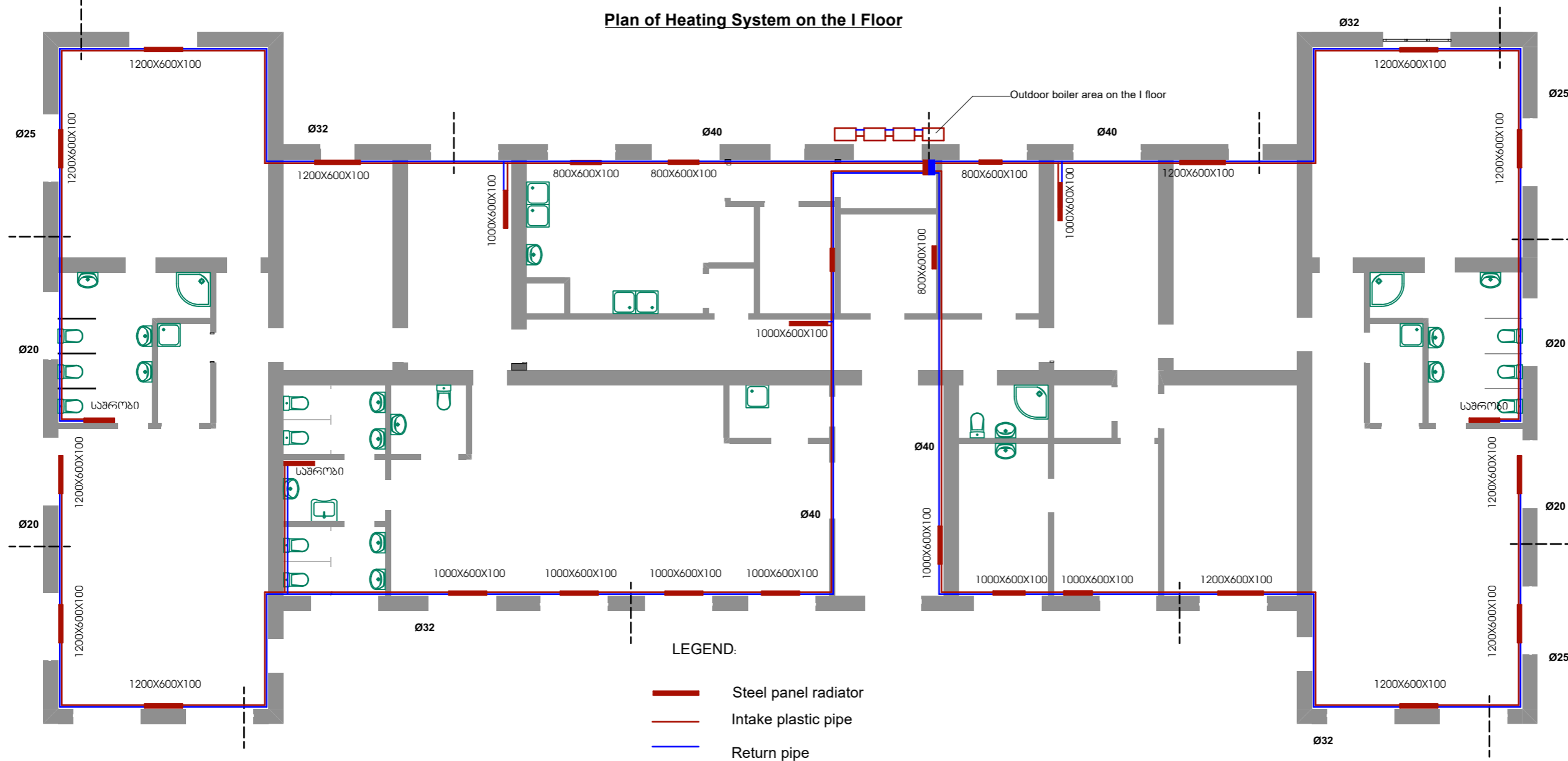
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Plan of Heating System on the I Floor



LEGEND:

- Steel panel radiator
- Intake plastic pipe
- Return pipe

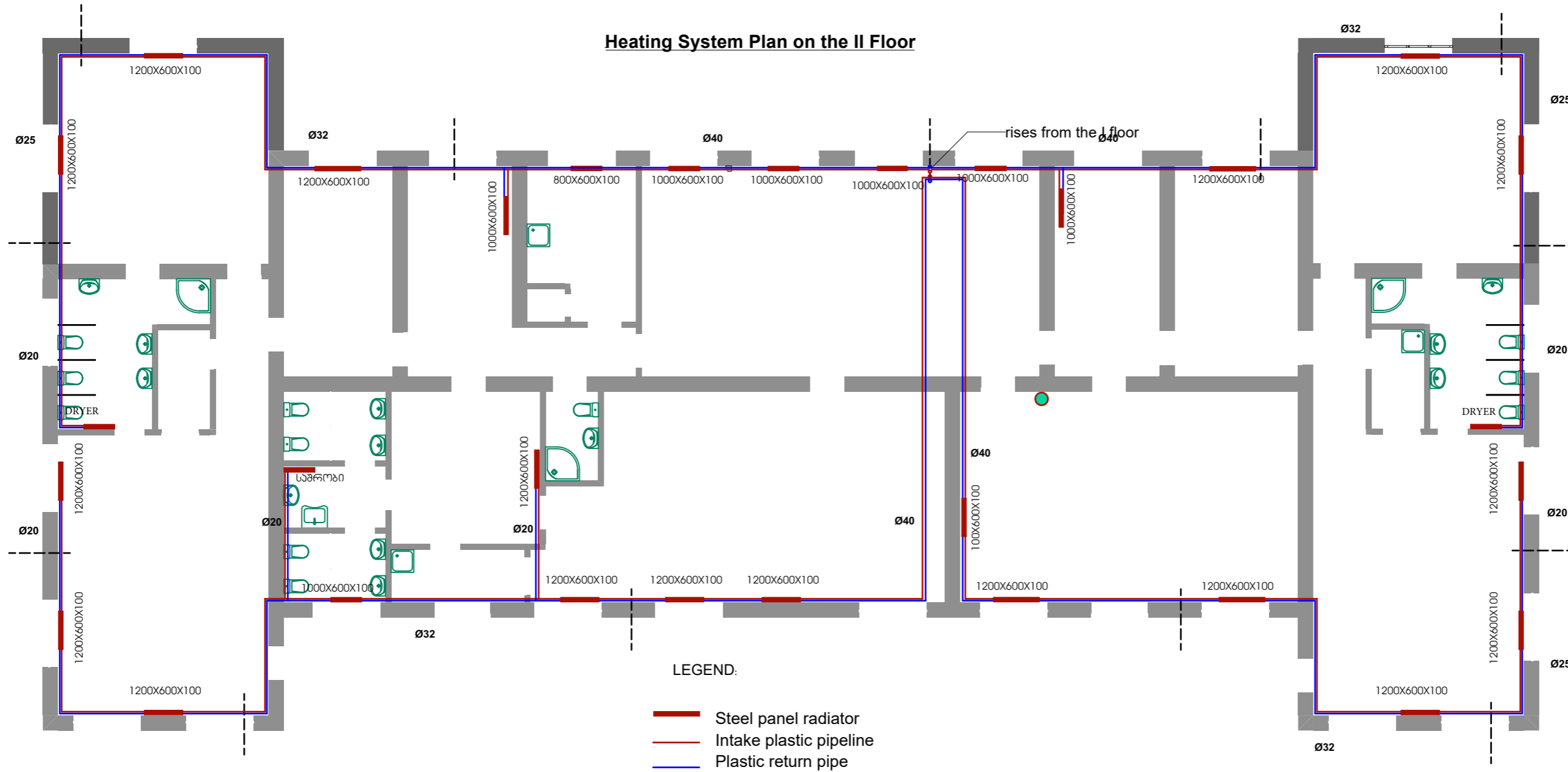
HEATING SYSTEM

Explanatory Note

- Designed heating system is double piped, horizontal.
- Water is a heat conductor with a temperature of 65-500 C.
- Metal panel radiators with a height of 600 mm are used as a heating device.
- Pipes will be laid while the preparation of the floor, with thermal insulation.
- The external calculated temperature of heating is - 80.
- Heating boilers with a capacity of 40 kW-4 pieces, double-circuit, coaxial smoke pipe, and automated are selected for heating.
- Hydraulic modules and collectors are installed with boilers.

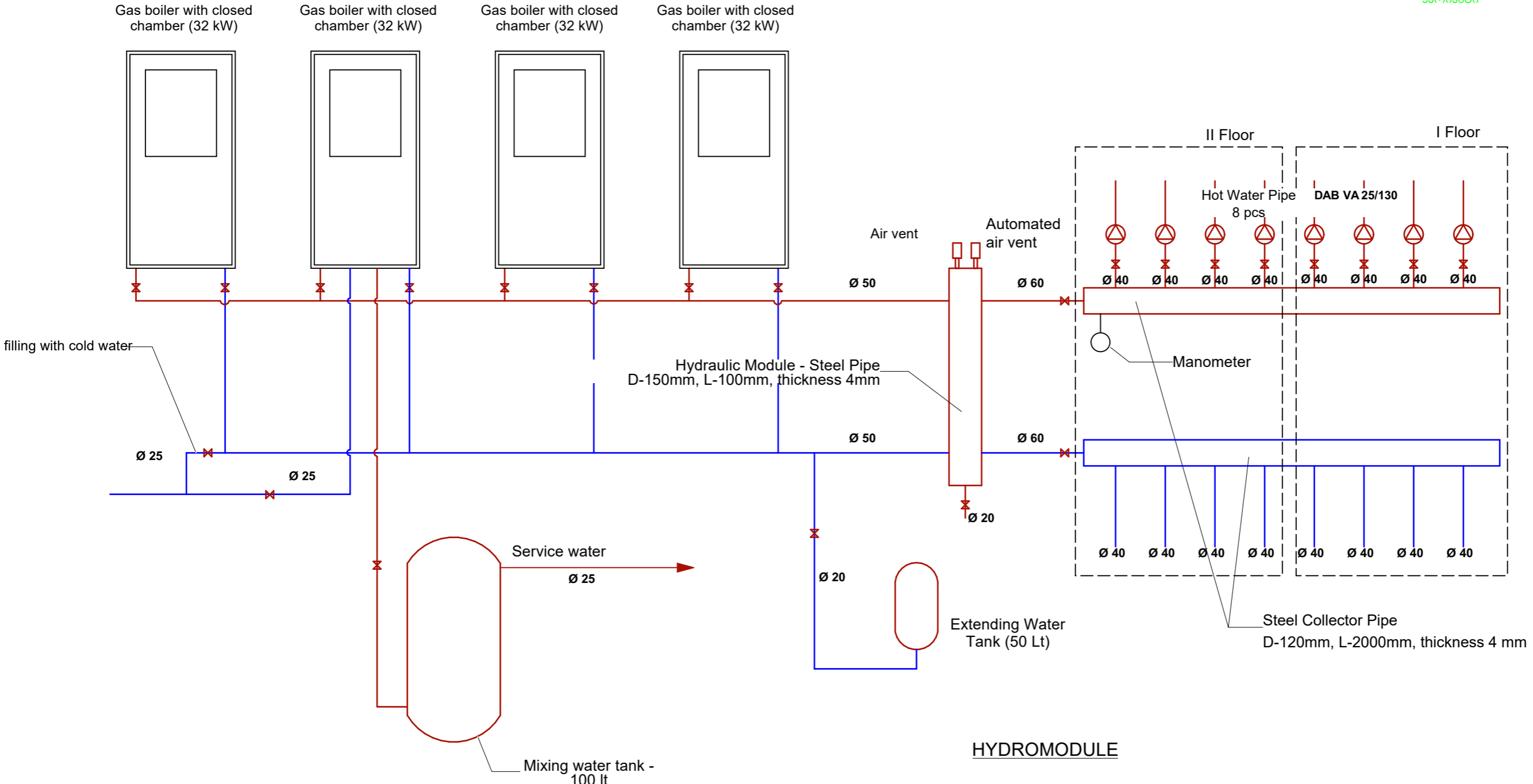


Heating System Plan on the II Floor



Principal Scheme of the Heating System

პროექტი



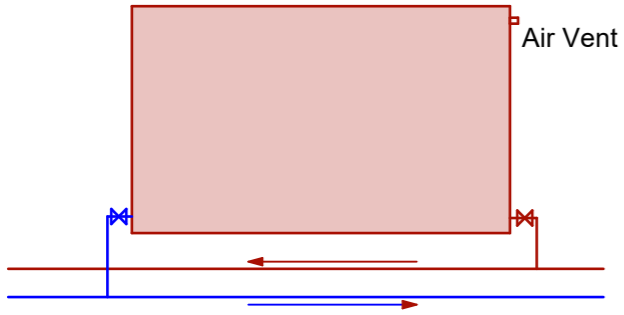
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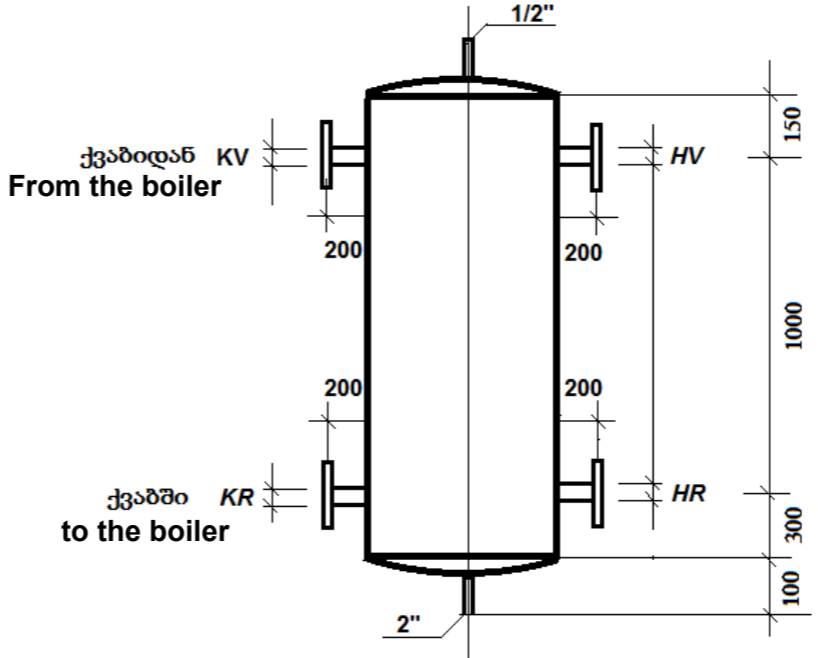
Stage:
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Principal Scheme
of the Heating
System

Plan of Connecting of Panel Radiator



HYDROMODULE



kg/h	D	KV	KR	HV	HR
8000	150	50	50	65	65

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Specification



List of Items	UoM	Q
Double-circuit gas boiler for heating with coaxial chimney 40 kW	Set	1
Expansion tank 50 liters	Set	1
Shut-off valve 40 mm	pcs	
Protective valve 3.0 atm	pcs	
Metal pipe 150 mm for collectors	m	4
Hydromodule	pcs	1
Heating circulating pump DAB VA 25/130	pcs	8
Automated air vents	pcs	
Pipe with plastic (fiberglass) insulation 40 mm	m	367
Pipe with plastic (fiberglass) insulation 32 mm	m	186
Pipe with plastic (fiberglass) insulation 25 mm	m	111
Pipe with plastic (fiberglass) insulation 20 mm	m	127
Fittings 60% of the cost of the pipes		
Steel panel radiator 800X800X100	pcs	5
Steel panel radiator 1000X600X100	pcs	18
Steel panel radiator 1200X600X100	pcs	31
Bathroom dryer 1200 mm	pcs	6
Radiator valve in the supply line	pcs	60
Radiator valve on return pipe	pcs	60
Mixing tank 200 liters	pcs	1

Rehabilitation of
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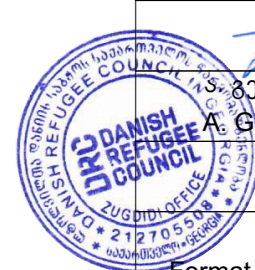
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Stage:
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Metal cabinet for
heating boiler (4
pcs)

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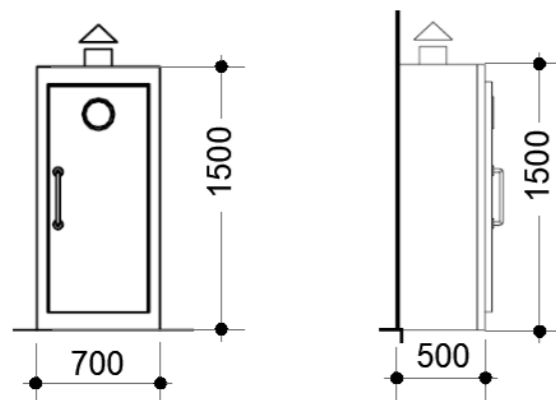
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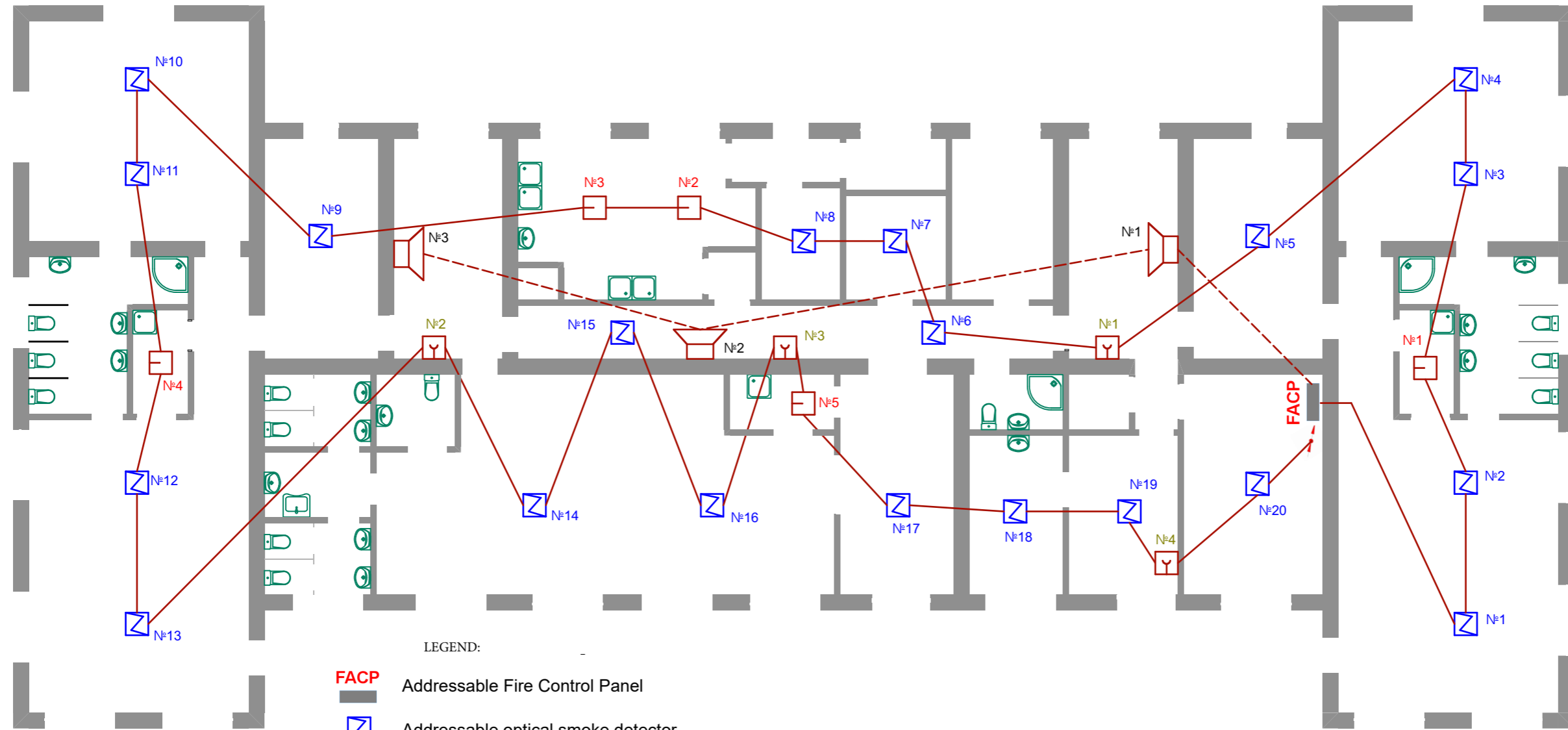
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ლითონის
ქარადა გათბობის ქვაბისთვის
Metal cabinet for heating boiler



Fire Alarm System Plan on the I Floor



LEGEND:

- FACP** Addressable Fire Control Panel
-  Addressable optical smoke detector
-  Addressable heat detector
-  Addressable alarm button
-  Addressable siren
-  Direction of cable

Rehabilitation of
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Stage:
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Fire Alarm
System Plan
on the I Floor

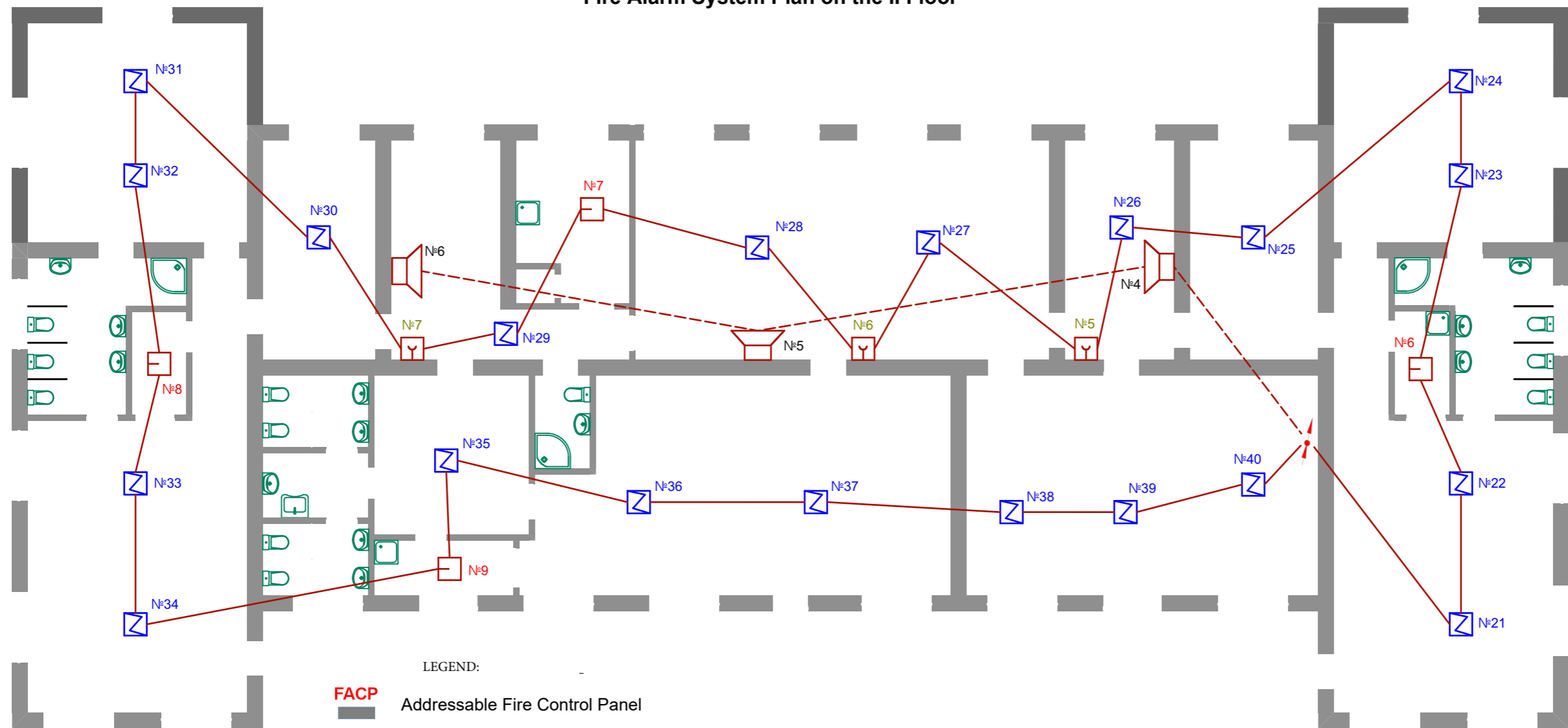
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Fire Alarm System Plan on the II Floor



- LEGEND:
-  **FACP** Addressable Fire Control Panel
 -  Addressable optical smoke detector
 -  Addressable heat detector
 -  Addressable alarm button
 -  Addressable siren
 -  Direction of cable

Rehabilitation of
Kindergarten #1
in Zugdidi Town

Project
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Stage:
Architectural project

Fire Alarm
System Plan
on the II Floor

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B. Qantaria

ა. გერგედავა
A. Gergedava



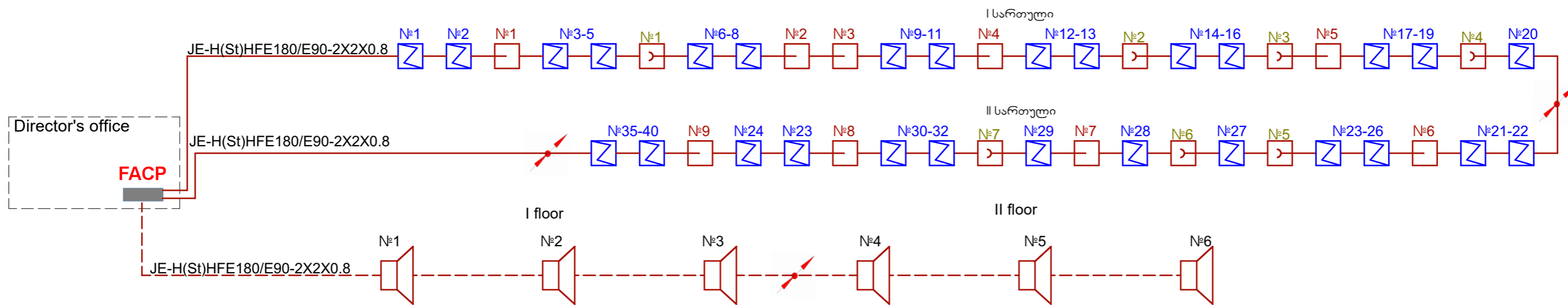
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Fire Alarm System

Fire alarm control panel to be installed on the first floor mark, in the protection room. The project envisages an addressable alarm system, the network of which is organized in a circular topology. The fire alarm cable network is built with a fireproof 2X2X0.8 mm type cable. The cable of the group of alarms should be laid with a separate fireproof 2X2X0.8 mm type cable and connected directly to the fire alarm panel. Fire, smoke, or combined fire alarm detectors should be of the addressable type. Thermal, smoke, or combined alarms are installed in the geometric center of the ceiling (in the case of one alarm) or on the ceiling of an evenly distributed controlled area. Relevant installation and schematic drawings are attached to the project. Alarm buttons are installed at all exits and at the exit of the staircase, at a height of 1.8 m from the floor. The fire alarm siren shall be installed 0.3 m from the ceiling and shall sound an alarm signal with a strength of not less than 100 dB / m2. Schematic drawings and design drawings of fire detectors, hand fire detectors, and sirens are attached to the project.

Rehabilitation of
Kimdergarten #1
in Zugdidi Town

Structural Scheme of Fire Alarm System



Project
address:
Georgia,
Zugdidi

Stage:
Architectural project

Structural
Scheme of
Fire Alarm
System

Fire Alarm System			
1	Fire proof cable JE-(St) H FE 180/E90 - 2X2X0.8	m	720
2	Addressble one loup fire control panel	set	1
3	Addressable smoke optic detector	pcs	40
4	Addressable thermal detector	pcs	9
5	Universal addressable base	pcs	49
6	Addressable alarm button	pcs	6
7	Addressable alarm with strobe	pcs	6
8	Power supply unit 2x12 w7A/h	pcs	1

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