# REPUBLIC OF TAJIKISTAN

Private Buisnessman Aslam Pochoev



# PROJECT WORKING DESIGN

Construction of 5 additional classrooms in secondary school N 3, Farkhor district.

ALBUM - I

AP - Architectural-planing solution

### LIST OF WORKING DESIGH OF THE MAIN SET

Nº	Page	Name
		AP - Architectural Part
1	APS-1	Cover Sheet
2		Cover sheet 1
3	APS-2	General data (contenses of the album)
4	APS-3	General data (contin.)
5	APS-4	Decoration of the premises and fasades
6	APS-5	General view (perspective)
7	APS-6	Fasade in axis 1-4
8	APS-7	Fasade in axis 4-1
9	APS-8	Fasade in axis A-G
10	APS-9	Fasade in axis G-A
11	APS-10	Ground floor plan
12	APS-11	Section 1-1
13	APS-12	Section 2-2
14	APS-13	The part of the fasade/detail
15	APS-14	Fasade in axis 1-4 (colour solution)
16	APS-15	Fasade in axis A-G (colour solution)
17	APS-16	Fasade in axis G-A (colour solution)
18	APS-17	Floor plan
19	APS-18	Roof plan
20	APS-19	Windows specifications
21	APS-20	Door specifications
22	APS-21	Plan of the technological equipment
	APS-22	Plan of the placement of furniture/specification of equipment

### BORDEREAU ALBUM MAIN SET

indication	Name
ГП - GP	General plan
AP - APS	Architectural-planing solution
КЖ - СС	Constraction Concept
OB - HV	Heating and Ventilation
ЭО - Ei & FA	Electric illumination and Fire alarm
CE	Cost estimation

### TEI - TECHNICAL ECONOMICAL INDICATORS

Nº	Name	Unit	Q-ty
1	Building volume	м <sup>3</sup>	1887.30
	-above mark +O,OO	м <sup>3</sup>	1583.55
	- below mark -O,OO	м <sup>3</sup>	303.75
2	Building area	м²	405.00
3	Storyes	story	1
4	Presense additional floor (techn/floor, cellare, mansards and others)	story	

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#### Explanatory note

#### I.Common part

The project of the building "Construction of 5 additional classrooms in secondary school №49, Choilobkamar village, Chubek jamoat, Hamadoni district, one-story brick building with longitudinal and transverse walls with the size of the walls in terms of axis - 15 000 × 25 000 mm.

#### II. Feature of the project.

Main feature of the project:

Natural climatic region - IVA
Seismicity - 7 points
Designed outdoor air temperature -130C
Regulatory snow load - 70 kgs/м2
Grade of durability - II

Grade of durability - II

Grade of refractoriness - II

Category of building - II

#### III. Architectural planing part

The story building is solving with one volume "Construction of 5 additional classrooms in secondary school Nº49, Choilobkamar village, Chubek jamoat, Hamadoni district" solved functionally and appropriately.

The height of the 1st floor from the floor to the floor is 3.0m.

For the mark of 0,000 accepted the mark of floor of 1st floor, which corresponds to absolute mark of \_\_\_\_\_\_ by surveying.

#### IV.Constructive part

The story building of "Construction of 5 additional classrooms in secondary school №49, Choilobkamar village, Chubek jamoat of Hamadoni district" is made of stone and frame structures of the rectangular form with supporting of longitudinal and transverse outer and inner walls with reinforced concrete cores and with grids of horizontal reinforcement in accordance with CHuП II-7-81.

Spatial rigidity of the building is providing by:

- a) By the vertical plane in the transverse and longitudinal directions of the joint work of brick walls with including of reinforced concrete cores.
- b) By the horizontal plane in the transverse and longitudinal directions of the joint work of monolithic reinforced concrete slabs.

According to the task of design the development of the project, the following design solution was accepted:

- Concretes monolithic reinforced concrete.
- The stone will be arranged around the building in width 1.2m from concrete type of B7.5.
- Walls are made of burnt bricks thick of 380mm, and reinforced with concrete core and columns, and reinforced by vertical mesh of Ø5Bp-I through every 700mm.

The base of walls is composed of burnt brick and the perimeter of the building is arranged with waterproof by mortar of cement contains of 1:2 and the thickness of 20mm.

- Overlaps monolithic reinforced concrete.
- Roof wooden
- Roofing metalic tile painted in dry.
- Roofing desided to wooden structures on the rafter system with wooden crate 300mm & covered with

roofing metal tile. For the protection of wooden structure, elements, parts from rotting and fire impregnated with a solution of phosphorus-acidic ammonium and silfur acid in a proportion 1:1.

With roof slopes less than 30% or 15% rebate should make lying and doble coat with putty Surikovii. the magnitude of bending sheet for a recumbent falz -15mm, standing falz- 20mm.

- Warmth-keeping jacket - sintering gravel 150mm. □=550 kg/m

#### V. Exterior finishing of the building

The facade of the walls are pargeting by mortar from cement-lime, and after acrylic water-resistant putty with finishing by the decorative parget.

Cap will be pargeted by cement mortar and after will be used ceramic tile.

Columns, cornices, pilasters and details of facades will be pargeted by cement mortar, and after acrylic water-resistant putty with finishing by the facade paints.

Porch will be covered by ceramic tile.

#### VI. Interior finishing of the building

The walls will be pargeted by cement mortar and finishing by using of alabaster of thick of 3mm and after the walls will be painted by emulsion paint.

Ceilings will be filled by cement mortar and finishing by using of alabaster of thick of 2mm and after the walls will be painted by emulsion paint.

#### VII. Anti-seismic events.

All anti-seismic events are made according to requirements of СНиП II-81.

Bricklaying of bearing walls will be made from ordinary burnt brick type of M\*75" by using of cement mortar type of M50. Bricklaying of 2nd category resists the seismic actions.

Depending on the intensities of the projected area, the walls are reinforced by horizontal grid and laid over 700mm in height with 8 points.

Around the longitudinal and transverse walls of the building at the level of covering it should be arranged by monolithic reinforced concrete and the carcass should be type of d=12mm

Project has been developed in accordance with the prevailing rules and norms and ensure a safe and explosion fire safe in opereration of the structures

Senior Engiheer

M. Shamsov

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### BORDEREAU OF THE DECORATING OF THE PREMISES

Name	Ceilling	Decorating of the Walls and partiton	Decorating of the bellow part of the walls and partitons	remarks
	decoration type	decoration type	decoration type	
		Floor plans		
Classrooms	floatwork with cement solution, alabaster screed t= 2mm , water- emulsion painting.	Improve plastering, alabaster screed t=3мм water emulsion painting	Oil painting of the wall sureface H=1,2м	
Corridor, foyer	floatwork with cement solution, alabaster screed t= 2mm, water- emulsion painting.	Improve plastering, alabaster screed t=3мм water emulsion painting	Oil painting of the wall sureface H=1,5м	
Porch	floatwork with cement solution, alabaster screed t= 2мм , water- emulsion painting.	Improve plastering, alabaster screed t=3мм water emulsion painting		

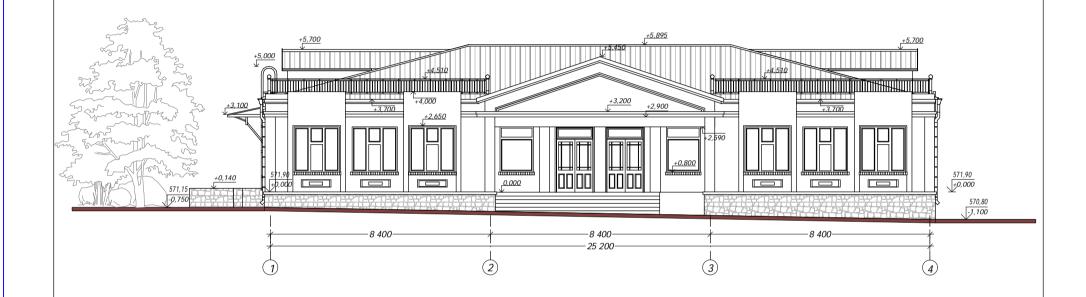
BORDEREAU OF THE DECORATING OF THE FASADES											
Fasade	Name	Decoration type	Re- marks								
	Socle	Seranite									
	Exterior walls	Improve plastering, exterior acrylic water - resistant putty with decorative plastering									
	Column, Cornice,Pier and facade details	Improve plastering, exterior acrylic water - resistant putty with decorative plastering									
	Porch	Seranite									
	Roof	Metal tile									
	Wndows	Metal and plastic									
	Doors	Factory-ready									

### <u>REMARKS</u>

1. This sheet is considered from APS-2 and APS-4

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						Construction of 5 additional classrooms in secondary school N 3, Farkhor district.			ool N 3,			
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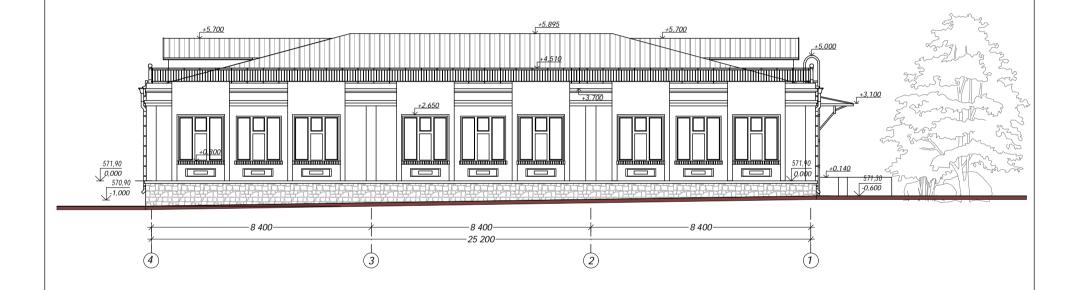
### FASADE in axis 1-4 M 1:100



- Decoration of walls- improve plastering with cement-lime solution, exterior acrylic waterresistant putty with decorative plastering
- Potch part of foundation Dark-blue-green colour seranite tyles, stair steps of the entrance porch - Gray blue coloure
- 3. Windows and Doors blocks Metall and plastic White colour
- 4. This sheet is considered from APS-7 and APS-10

									APS	
dim.	Q-ty	Page	№ doc.	Signature	Data	Construction of 5 additional classrooms in secondary school N 3, Farkhor district.				
							Stage	Page	Pages	
_	GIP GAP		hamsov ochoev			Architectural-planing solution	WD	6		
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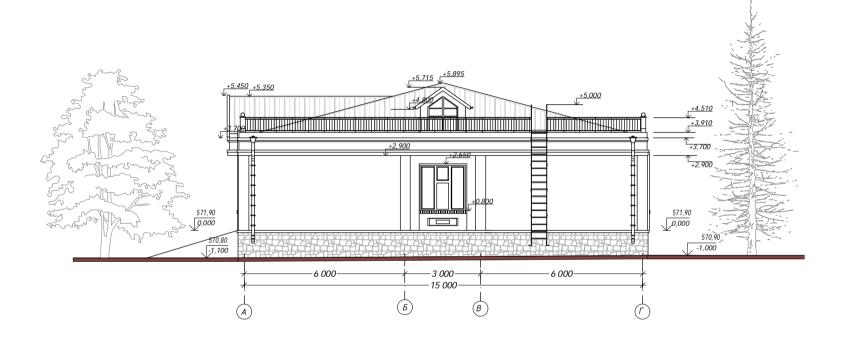
# FASADE in axis 4-1 M 1:100



- Decoration of walls- improve plastering with cement-lime solution, exterior acrylic waterresistant putty with decorative plastering
- 2. Potch part of foundation Dark-blue-green colour seranite tyles, stair steps of the entrance porch Gray blue coloure
- 3. Windows and Doors blocks Metall and plastic White colour
- 4. This sheet is considered from APS-7 and APS-10

									APS	
dim.	Q-ty	Page	№ doc.	Signature	Data		Construction of 5 additional classrooms in secondary school N 3, Farkhor district.			
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_			A. Pochoev			Architectural-planing solution	WD	7		
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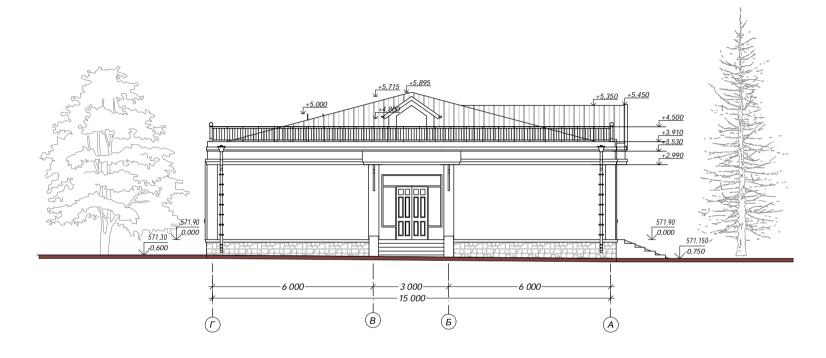
# FASADE in axis A-Γ M 1:100



- Decoration of walls- improve plastering with cement-lime solution, exterior acrylic waterresistant putty with decorative plastering
- 2. Potch part of foundation Dark-blue-green colour seranite tyles, stair steps of the entrance porch Gray blue coloure
- 3. Windows and Doors blocks Metall and plastic White colour
- 4. This sheet is considered from APS-7 and APS-10

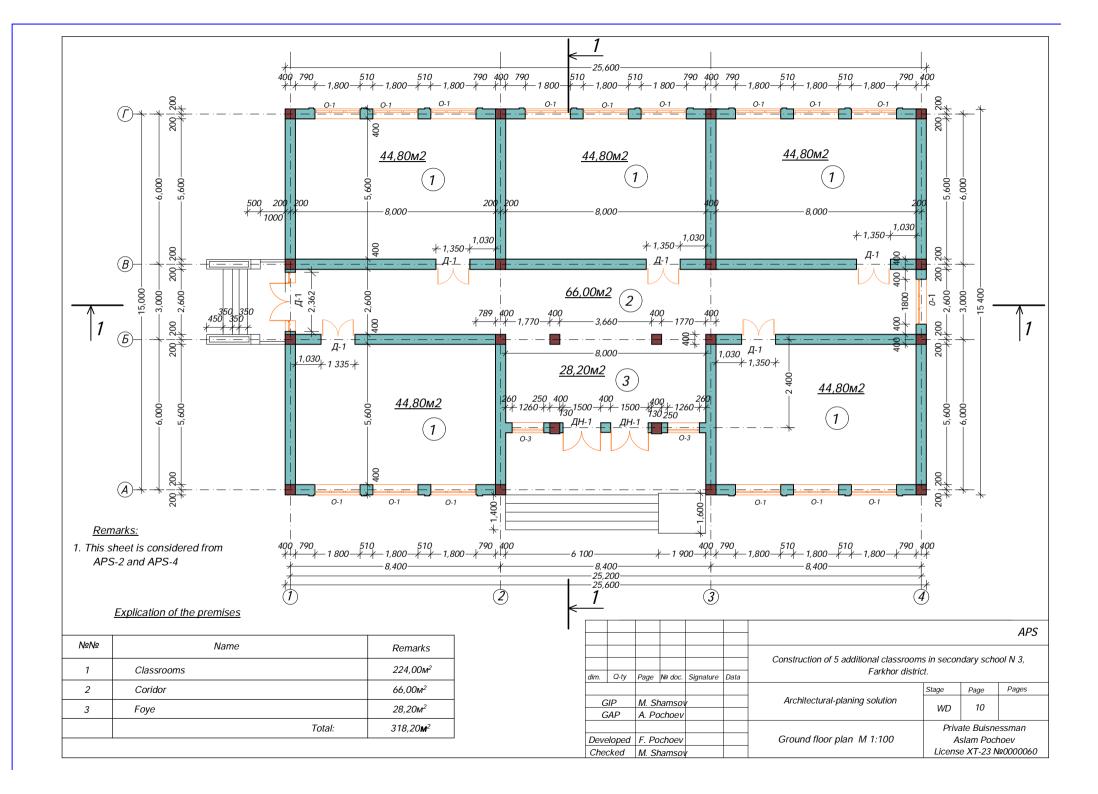
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# FASADE in axis Γ-A M 1:100

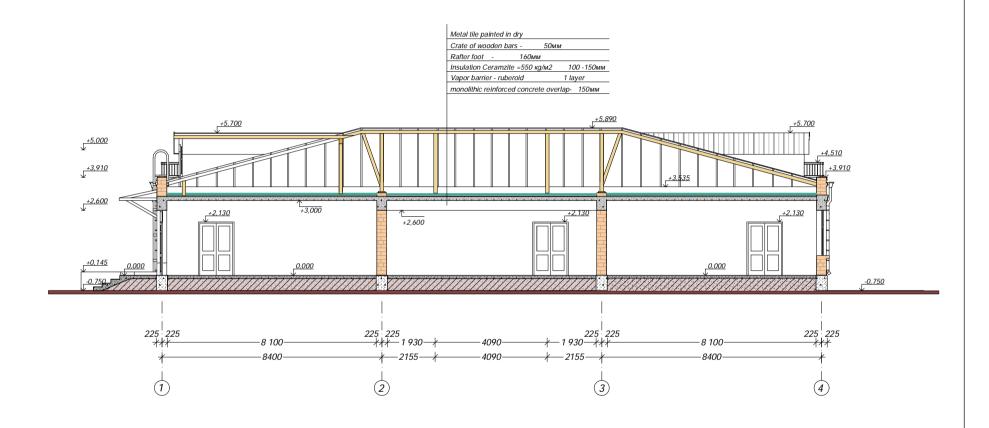


- Decoration of walls- improve plastering with cement-lime solution, exterior acrylic waterresistant putty with decorative plastering
- 2. Potch part of foundation Dark-blue-green colour seranite tyles, stair steps of the entrance porch Gray blue coloure
- 3. Windows and Doors blocks Metall and plastic White colour
- 4. This sheet is considered from APS-7 and APS-10

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_	GIP GAP		hamsov ochoev			Architectural-planing solution	WD	9			
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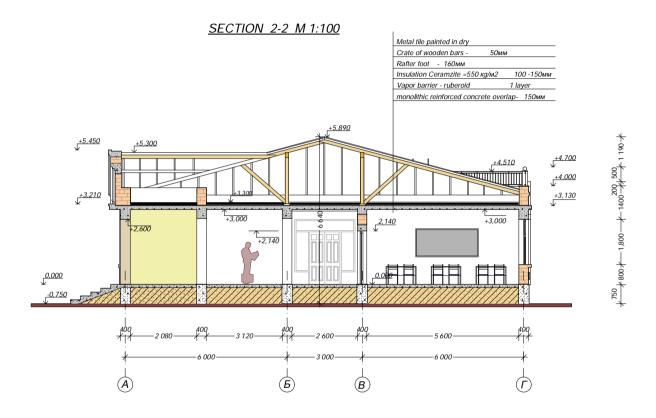


### **SECTION 1-1 M 1:100**



1. This sheet is considered from APS-10 and APS-12

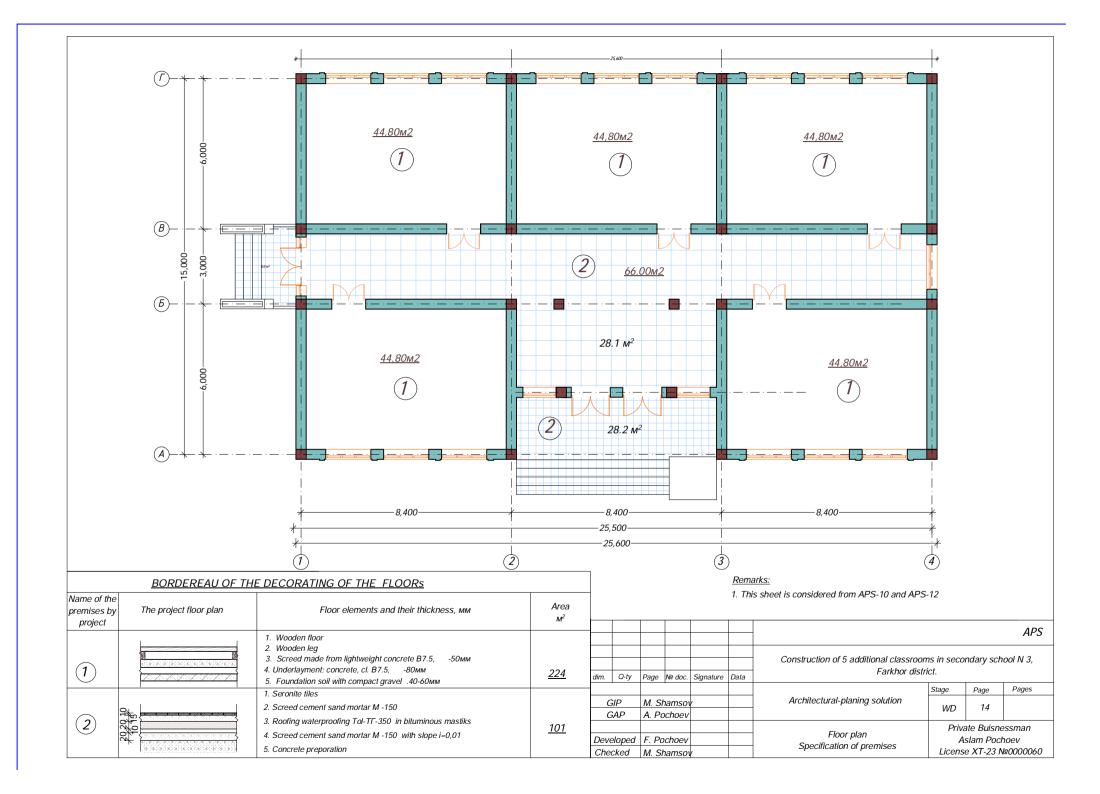
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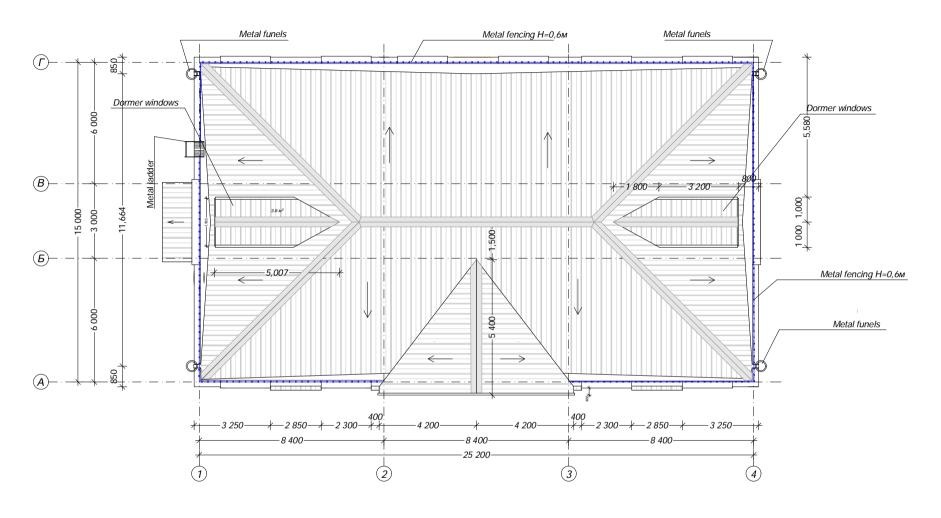
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dim.	Q-ty	Page	№ doc.	Signature	Data	Construction of 5 additional classroom Farkhor distric		dary scho	ol N 3,	
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_	GIP GAP		hamsov ochoev			Architectural-planing solution	WD	12		
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# Roof Plan



### NOTES:

1. This sheet is considered from APS-7 and APS-10

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						Construction of 5 additional classroom Farkhor distri		ndary scho	ool N 3,
dim.	Q-ty	Page	№ doc.	Signature	Data		1		_
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	GIP	M. SI	hamsov	r		Architectural-planing solution	WD.	15	
	GAP	A. Pochoev				WD	15		
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Windows						
Name	Single leaf windows	Double leaf windows				
Quantity	2	16				
Namber of zone						
Size Sh x B	1 260x1 800	1 800x1 800				
Orientation	L	R				
Sill height	800	800				
Height of the top	2 600	2 600				
2D-symbol	<del></del>					
3D-frontal	1260	1800				

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dim.	Q-ty	Page	№ doc.	Signature	Data	Construction of 5 additional classroom Farkhor distri		ndary scho	ool N 3,	
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_	GIP GAP	M. Shamson				Architectural-planing solution	WD 16			
							Priva	ate Buisne	essman	
Developed		F. Pochoev			Specification of windows	Aslam Pochoev		hoev		
Che	cked	M. S	hamso	/			Licens	License XT-23 №000006		

		Doors		
Name	Paneled door with 2 dors	Door with 2 size	Door with 2 size	Paneled door with 2 dors
Quantity	1	1	4	2
Namber of zone				
Size Sh x B	2 340x2 600	1 350x2 100	1 350x2 100	1 500x2 600
Orientation				
Height of threshold	0	0	0	0
Height of the top	2 600	2 100	2 100	2 600
2D-symbol				
3D-frontal	001 Z 002 2 550 + 1 300 + 550 +	1 350	1 350	009 7

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_	GIP GAP	M. Shamson				Architectural-planing solution	WD	17	
							Priva	ate Buisne	essman
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