



Point Table				
Point #	Elevation	Latitude	Longitude	Description
1	802	N 3847871	E 691353	RESERVOIR
2	784	N 3847929	E 691341	WELL

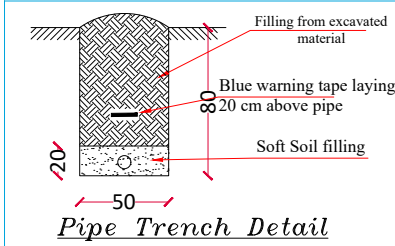
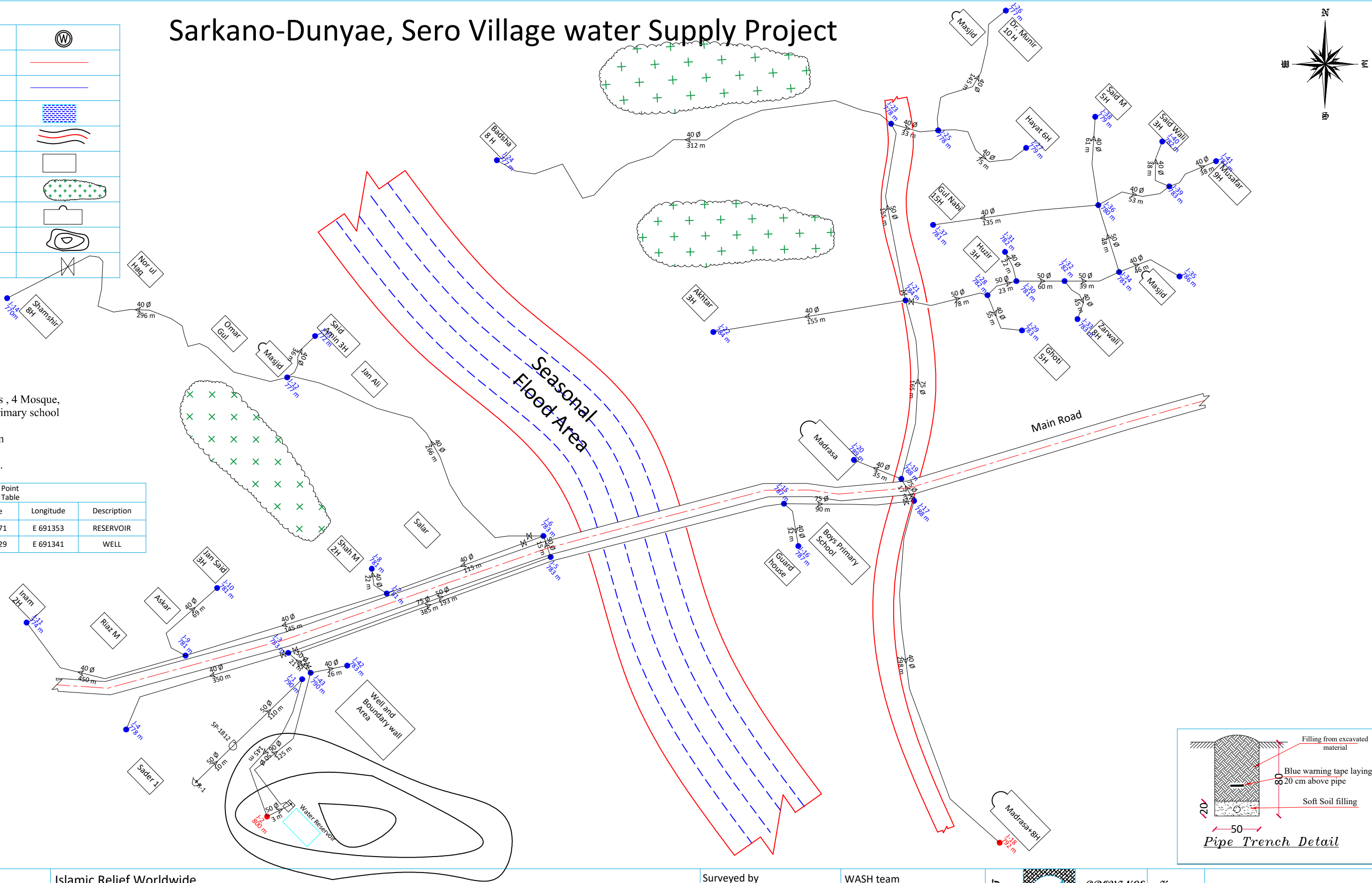
Sarkano-Dunyaee, Sero Village water Supply Project

LEGEND

Proposed Well	
Main line	
Distribution Line	
Reservoir Area	
Tertiary Road	
Village houses	
Agricultural Land	
Mosque	
Hill	
Control Valve	

Note:
Type of soil :#3 to #5
Population : 2310
House Number: 110 Houses , 4 Mosque,
2 Madrasa and one boys primary school
Static water level :60m
Dynamic water level:110 m
Total depth :120m
Drilling type : Rotary 12".

Point Table				
Point #	Elevation	Latitude	Longitude	Description
1	800	N 3847871	E 691353	RESERVOIR
2	784	N 3847929	E 691341	WELL



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)
Department WASH
Drawing Title Final Site Plan

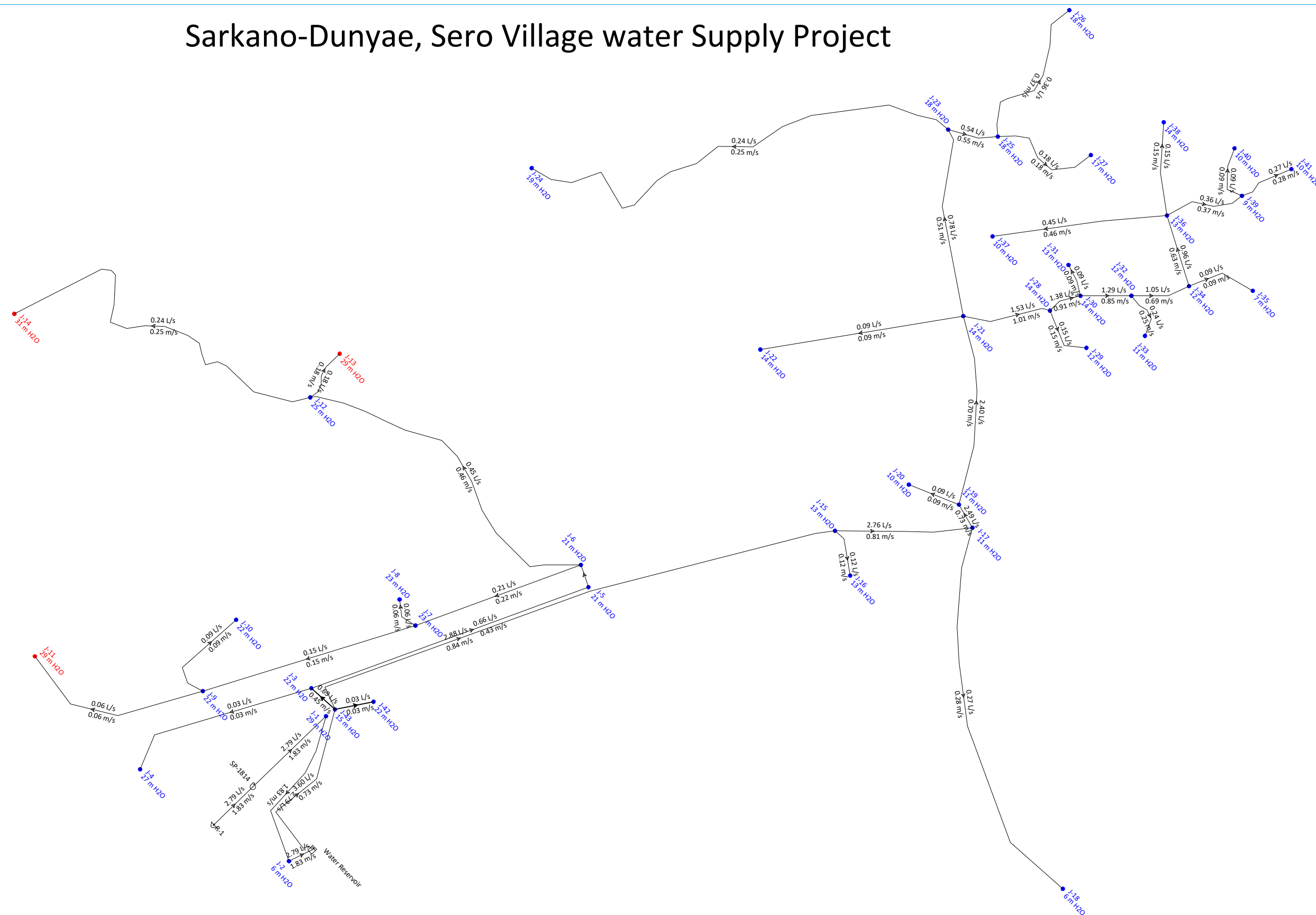
All dimension in cm otherwise stated

Surveyed by WASH team
Drawing & designed by Abdul Majeed "Khamosh"
Review & check by Eng. M. Tahir "Safi"
Approved by Eng. Shah Faisal


SHEET NO. 2/18
05-May-2024

PROVINCE Kunar
DISTRICT Sarkano
VILLAGE Sero

WISH

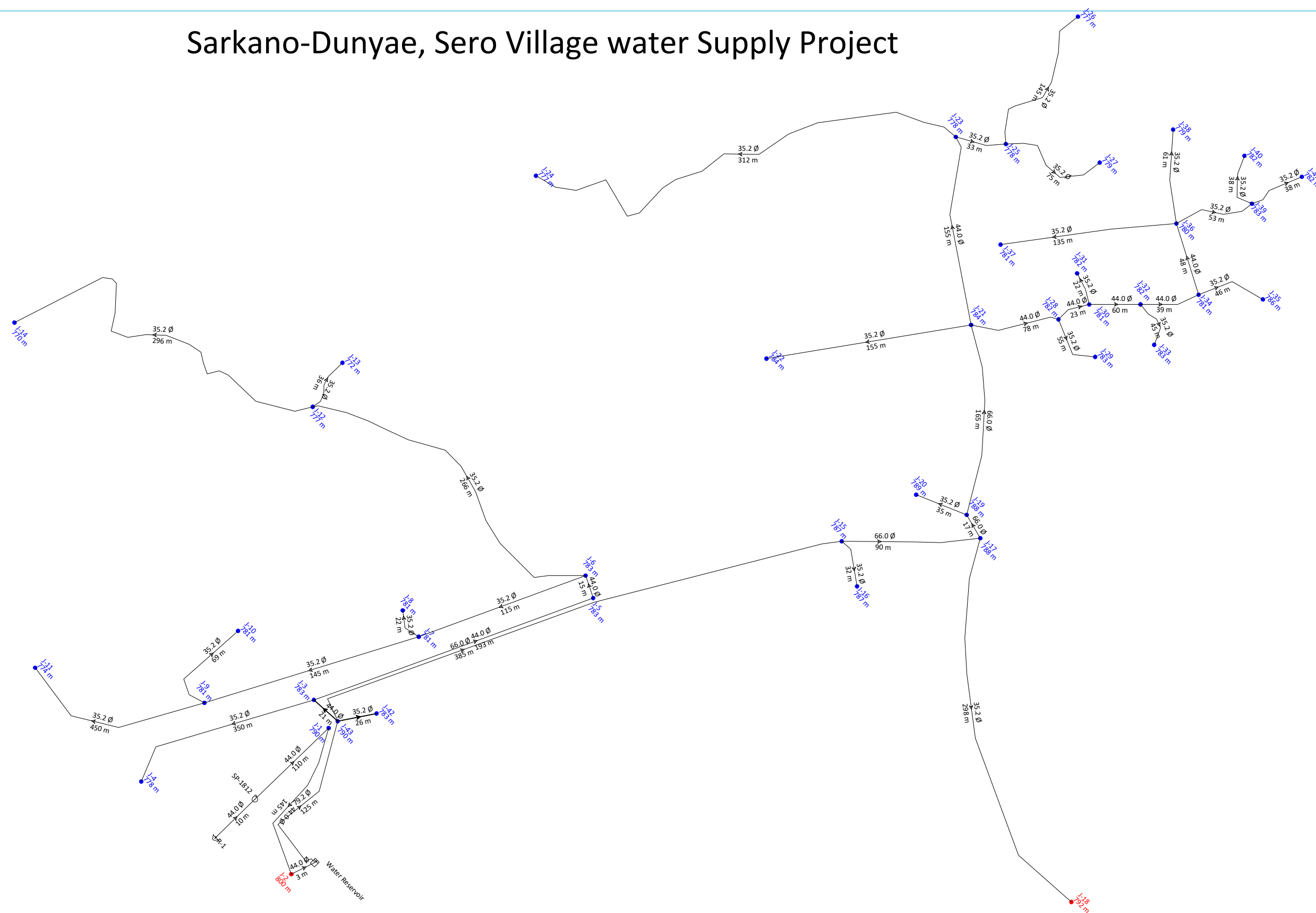

$$JRW$$

Department	WASH
Drawing Title	Node ID, Flow in (L/s), Velocity in (m/s), and Pressure in (mH2O)

SHEET NO.  05-May-2024


PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Sera

 $\mathcal{WJS\mathcal{H}}$


$$JRW$$

Department	WASH
Drawing Title	Node ID, In Dia in (mm), Length in (m) and Elevation in (m)

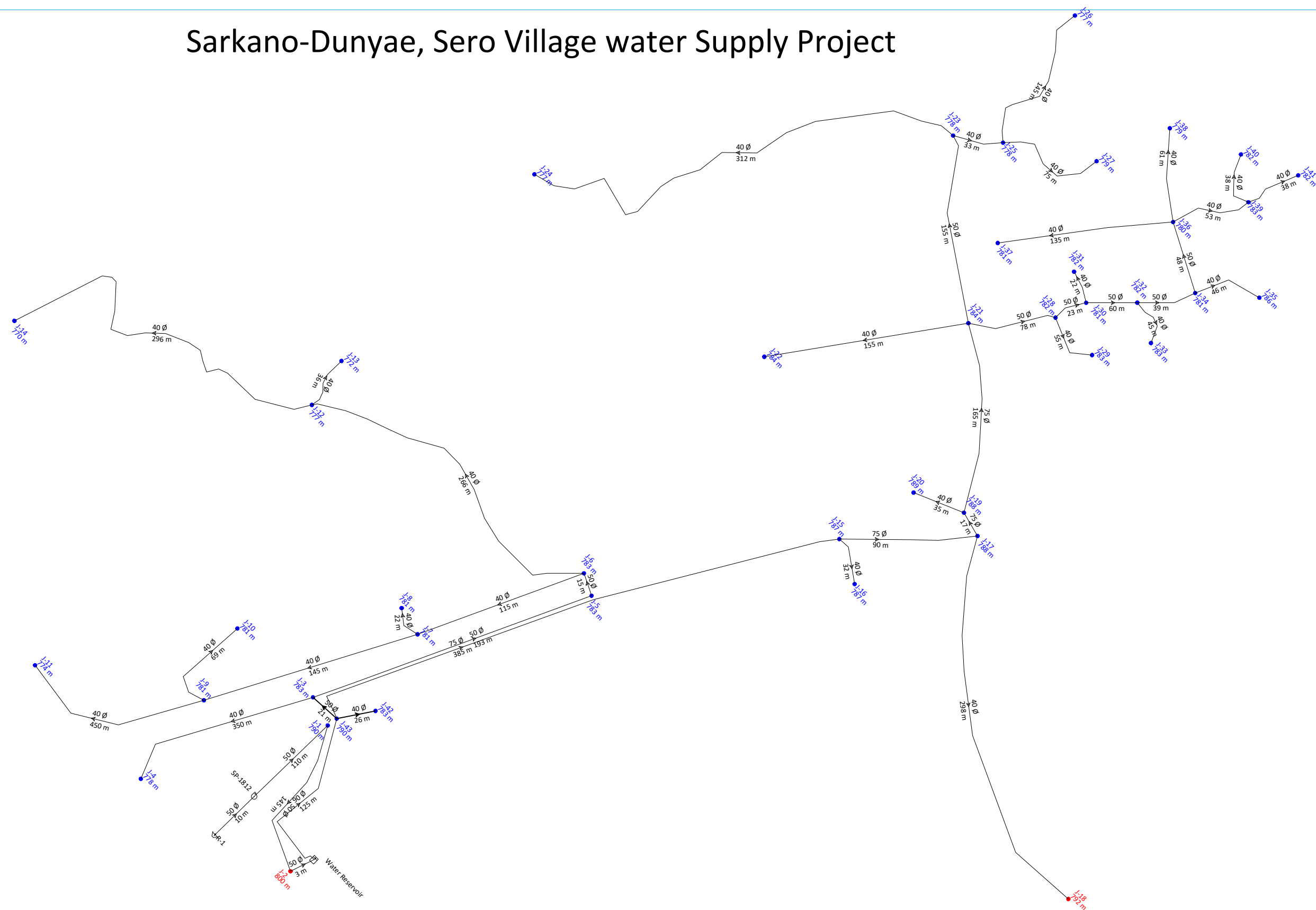
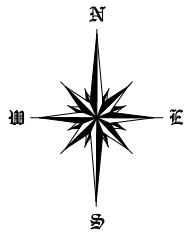
All dimension in (m)
otherwise stated

SHEET
NO. 
05-May-2024

PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Sera

 $\mathcal{WJS\mathcal{H}}$

Sarkano-Dunyaee, Sero Village water Supply Project



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department	WASH
Drawing Title	Node ID, Out Dia in (mm), Length in (m) and Elevation in (m)

All dimension in (m)
otherwise stated

Surveyed by	Abdul Majeed "Khamosh"
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET No.	5/18
DATE	05-May-2024

PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Sero

WISH

PLAN

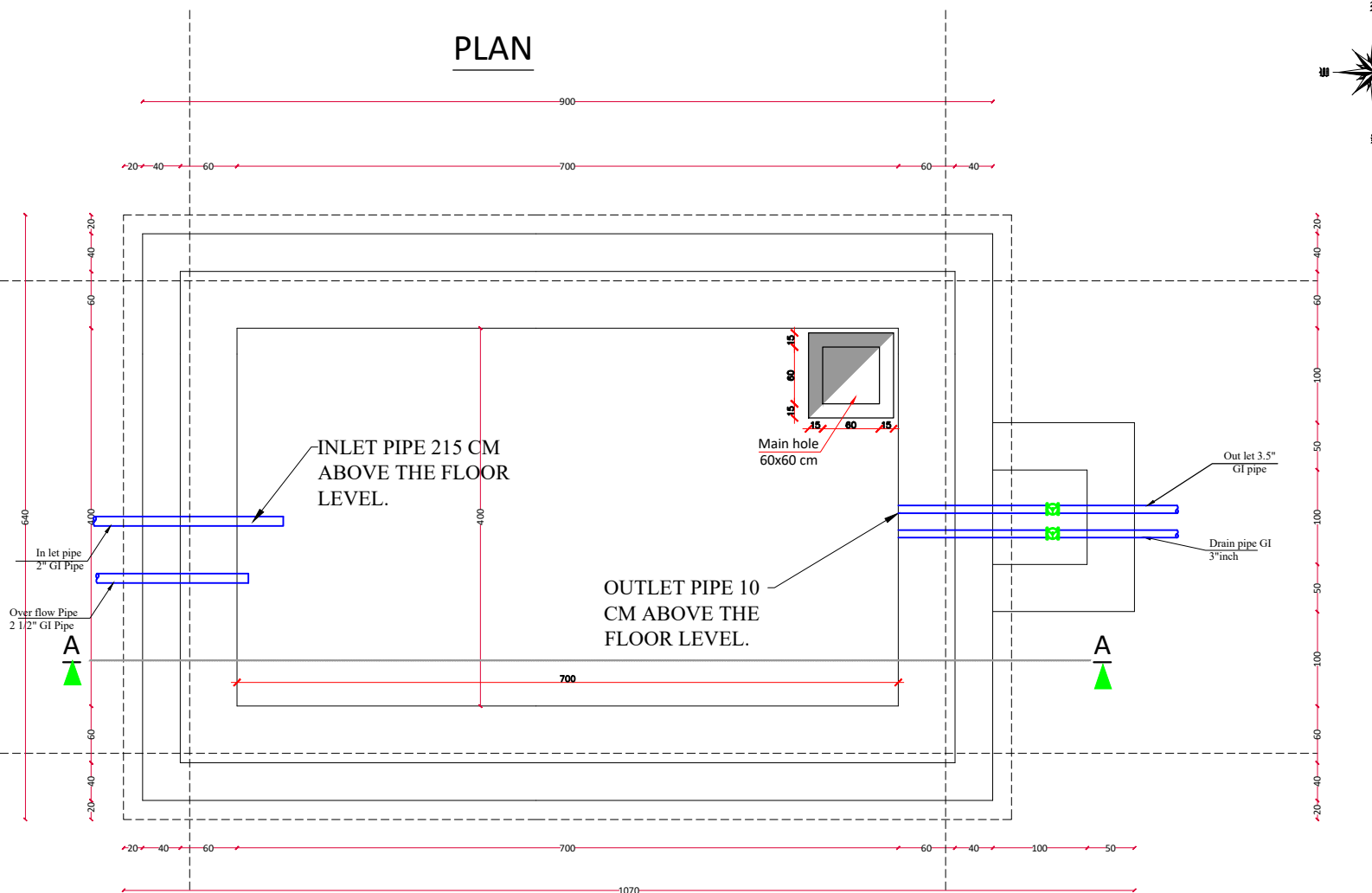


A

B

1

2



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department	WASH
Drawing Title	60 Cubic Meter Stone Masonry Reservoir Plan

All dimension in cm
otherwise stated

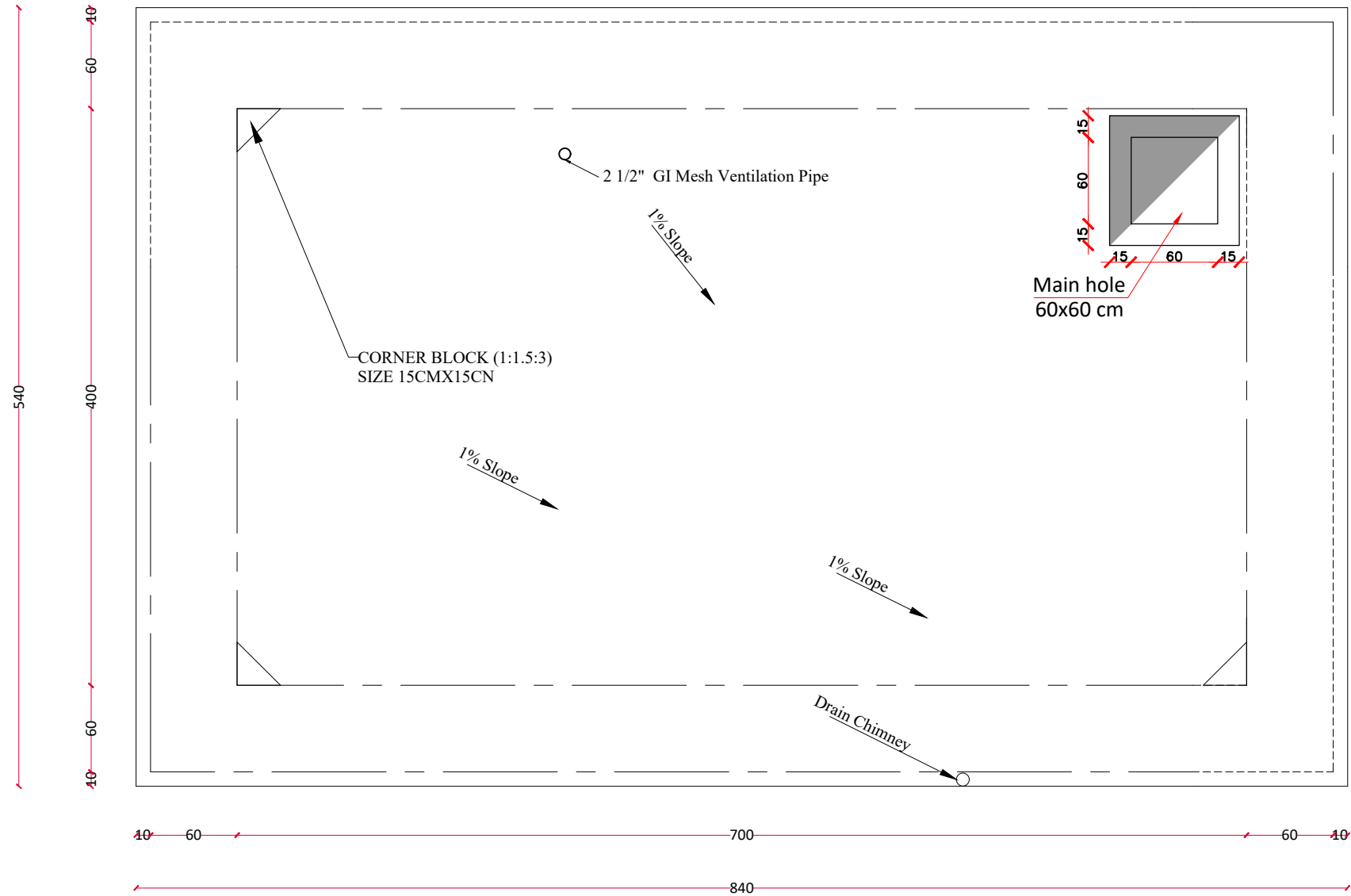
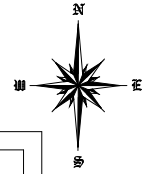
Surveyed by	WASH team
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET NO.	6/18
05-May-2024	

PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Sero

WISH
Project

Roof Drain Plan



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department: WASH
Drawing Title: Reservoir Drain Plan

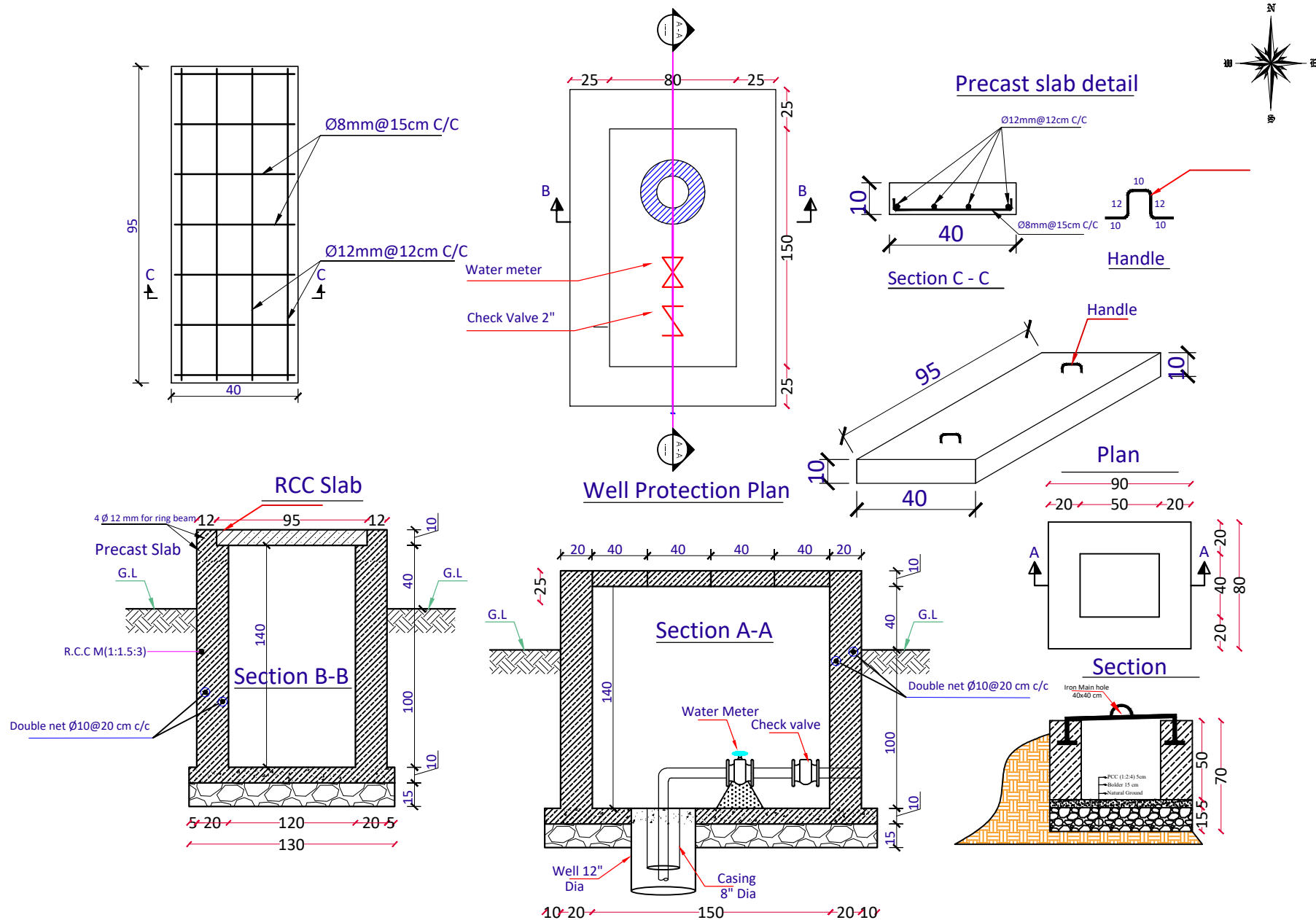
All dimension in cm
otherwise stated

Surveyed by: WASH team
Drawing & designed by: Abdul Majeed "Khamosh"
Review & check by: Eng. M. Tahir "Safi"
Approved by: Eng. Shah Faisal

SHEET NO. 8/18
05-May-2024

PROVINCE: Kunar
DISTRICT: Sarkano
VILLAGE: Sero

WISH
Project



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department: WASH
Drawing Title: Well and Gate valve protection

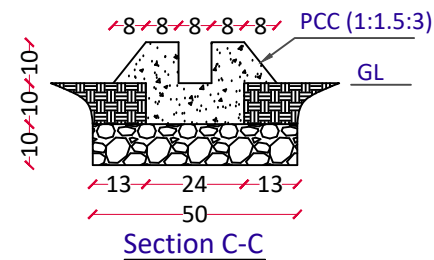
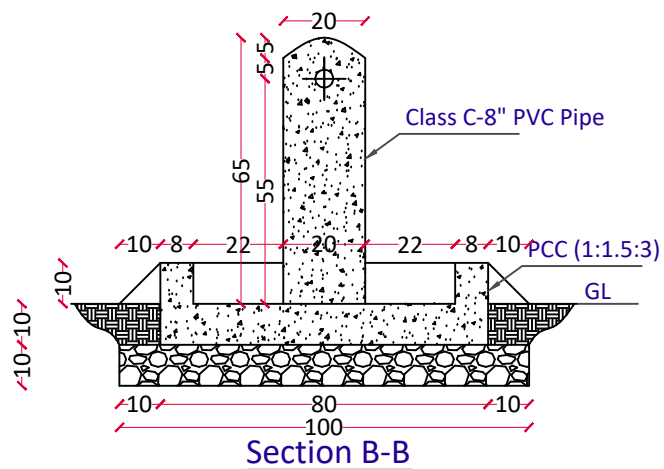
All dimension in cm
otherwise stated

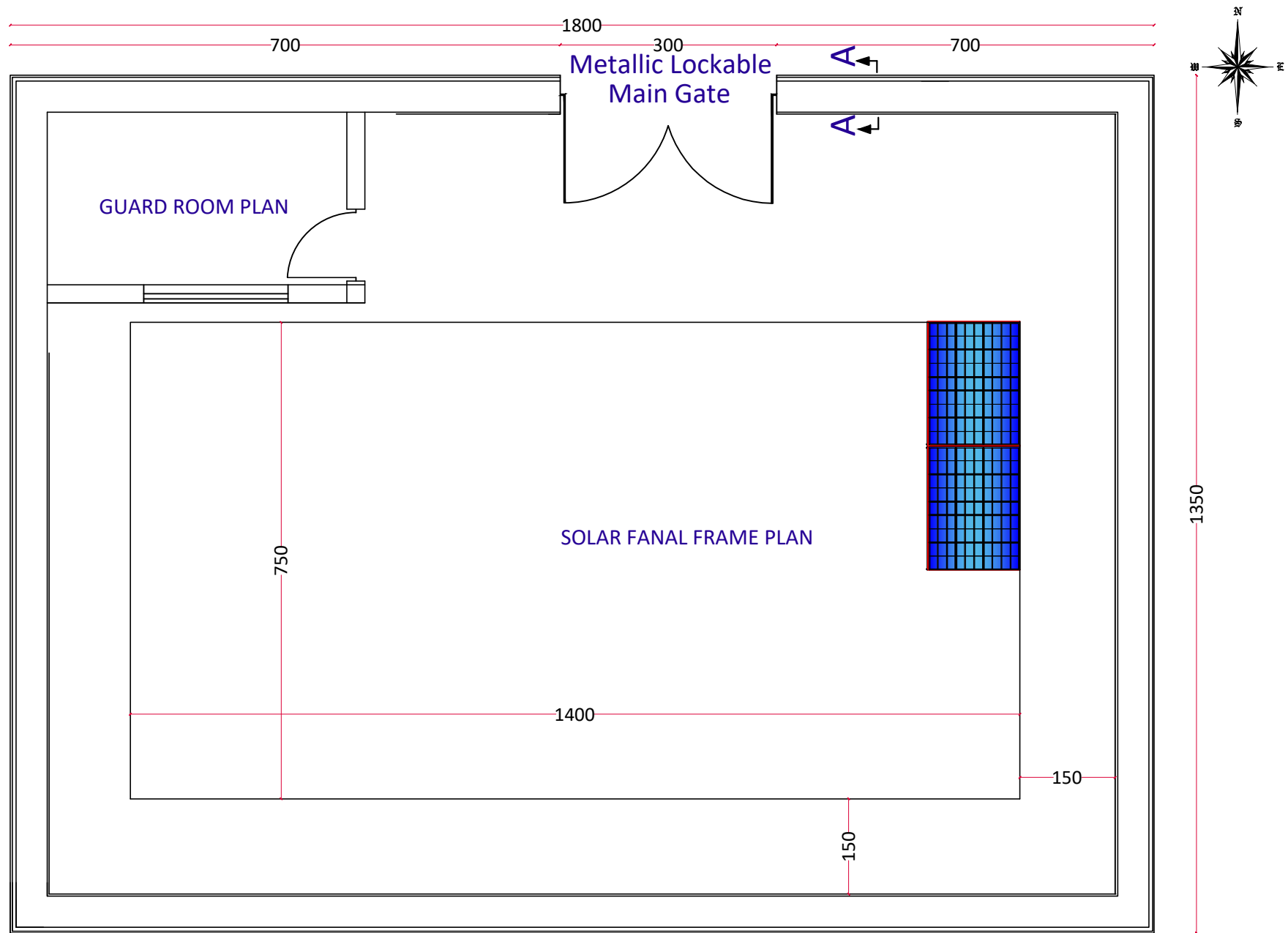
Surveyed by: WASH team
Drawing & designed by: Abdul Majeed "Khamosh"
Review & check by: Eng. M. Tahir "Safi"
Approved by: Eng. Shah Faisal

SHEET NO. 9/18
05-May-2024


PROVINCE: Kunar
DISTRICT: Sarkano
VILLAGE: Sero

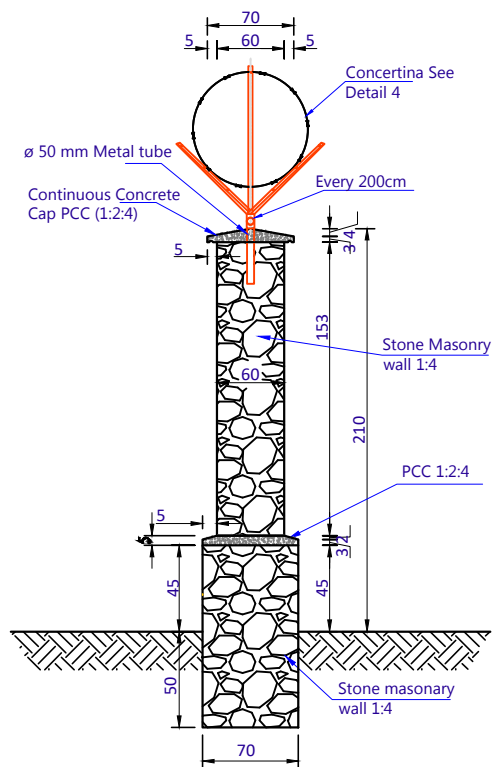
WISH
Project



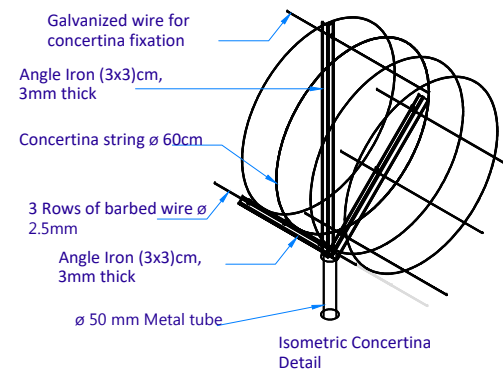
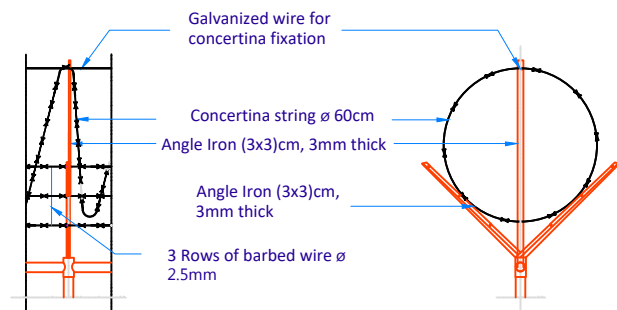
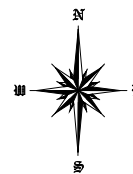
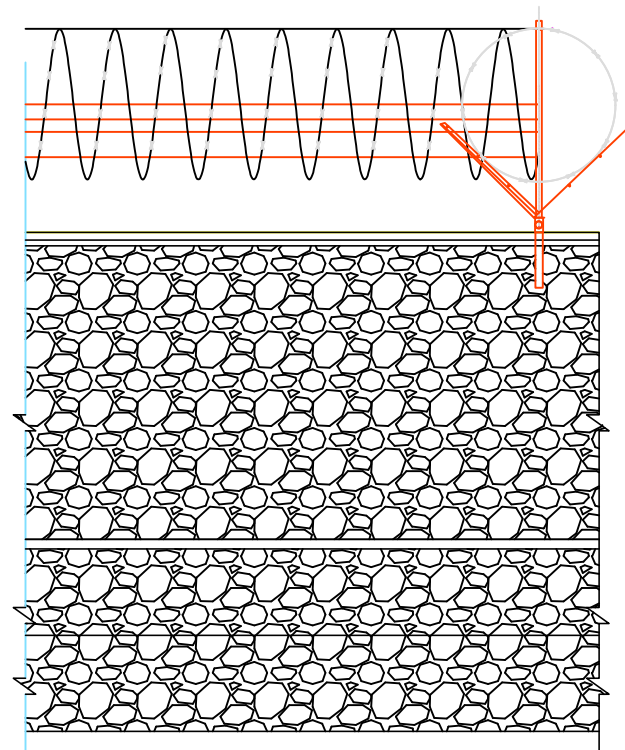


IRW

Islamic Relief Worldwide			Surveyed by	WASH team	SHEET NO. 	PROVINCE	Kunar	WISH Project
WASH Initiative for Strengthening Health (WISH)			Drawing & designed by	Abdul Majeed "Khamosh"		DISTRICT	Sarkano	
Department	WASH	All dimension in cm otherwise stated	Review & check by	Eng. M. Tahir "Safi"		VILLAGE	Sero	
Drawing Title	Boundary wall and Guard room plan		Approved by	Eng. Shah Faisal		05-May-2024		



Section A-A



Isometric Concertina Detail



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department WASH
Drawing Title boundary section and barbed wire plan

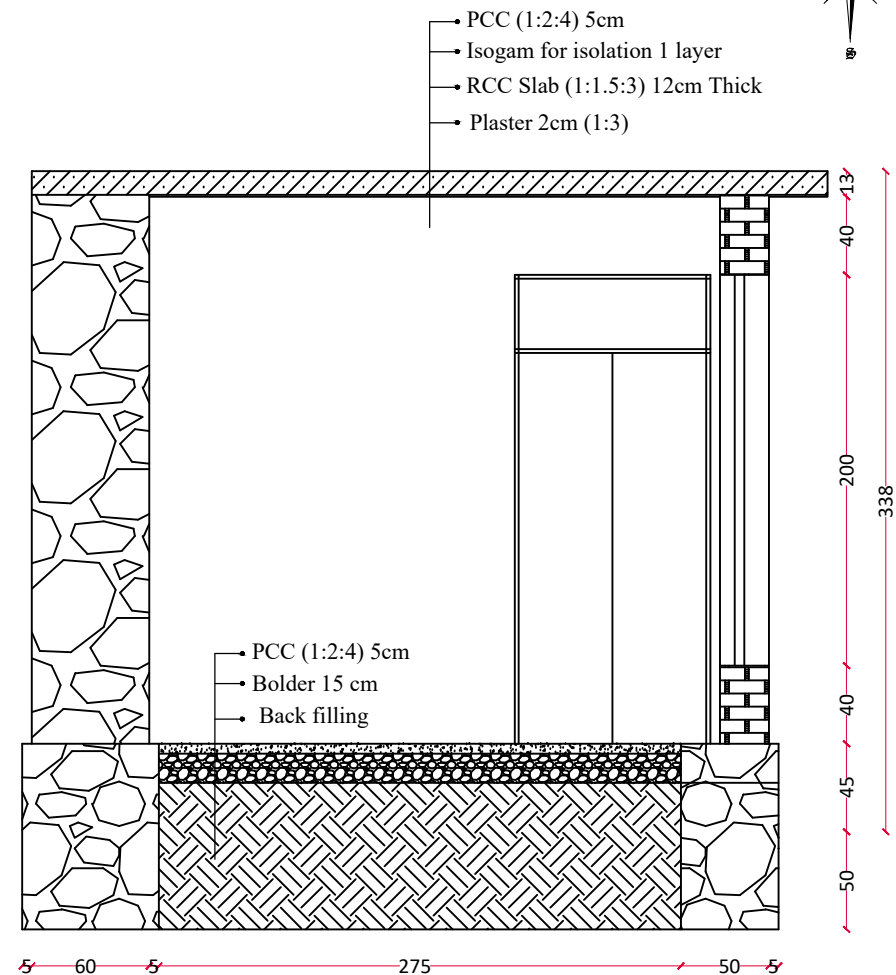
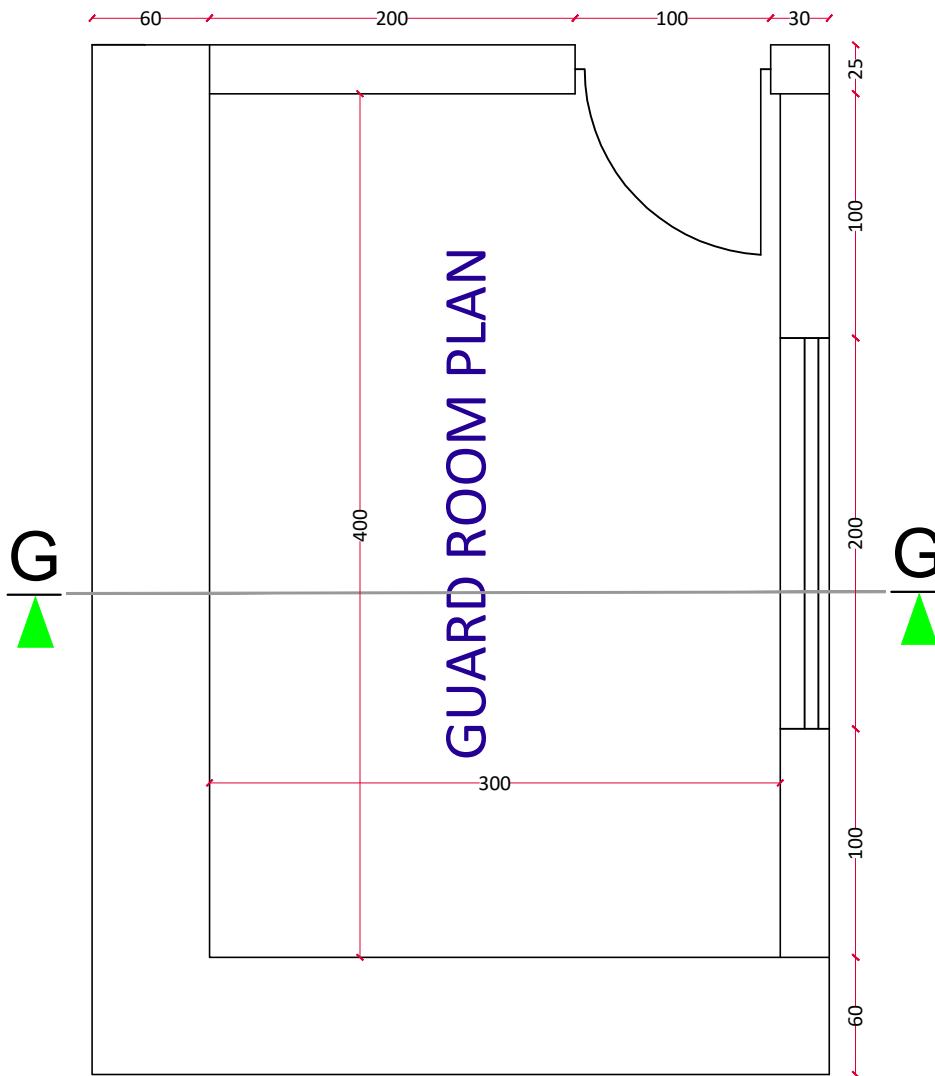
All dimension in cm
otherwise stated

Surveyed by WASH team
Drawing & designed by Abdul Majeed "Khamosh"
Review & check by Eng. M. Tahir "Safi"
Approved by Eng. Shah Faisal

SHEET NO. 12/18
05-May-2024

PROVINCE Kunar
DISTRICT Sarkano
VILLAGE Sero

WISH
Project



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department: WASH
Drawing Title: Guard Room Plan

All dimension in cm
otherwise stated

Surveyed by: WASH team
Drawing & designed by: Abdul Majeed "Khamosh"
Review & check by: Eng. M. Tahir "Safi"
Approved by: Eng. Shah Faisal

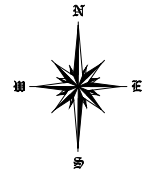
SHEET NO. 13/18
05-May-2024

PROVINCE: Kunar
DISTRICT: Sarkano
VILLAGE: Sero

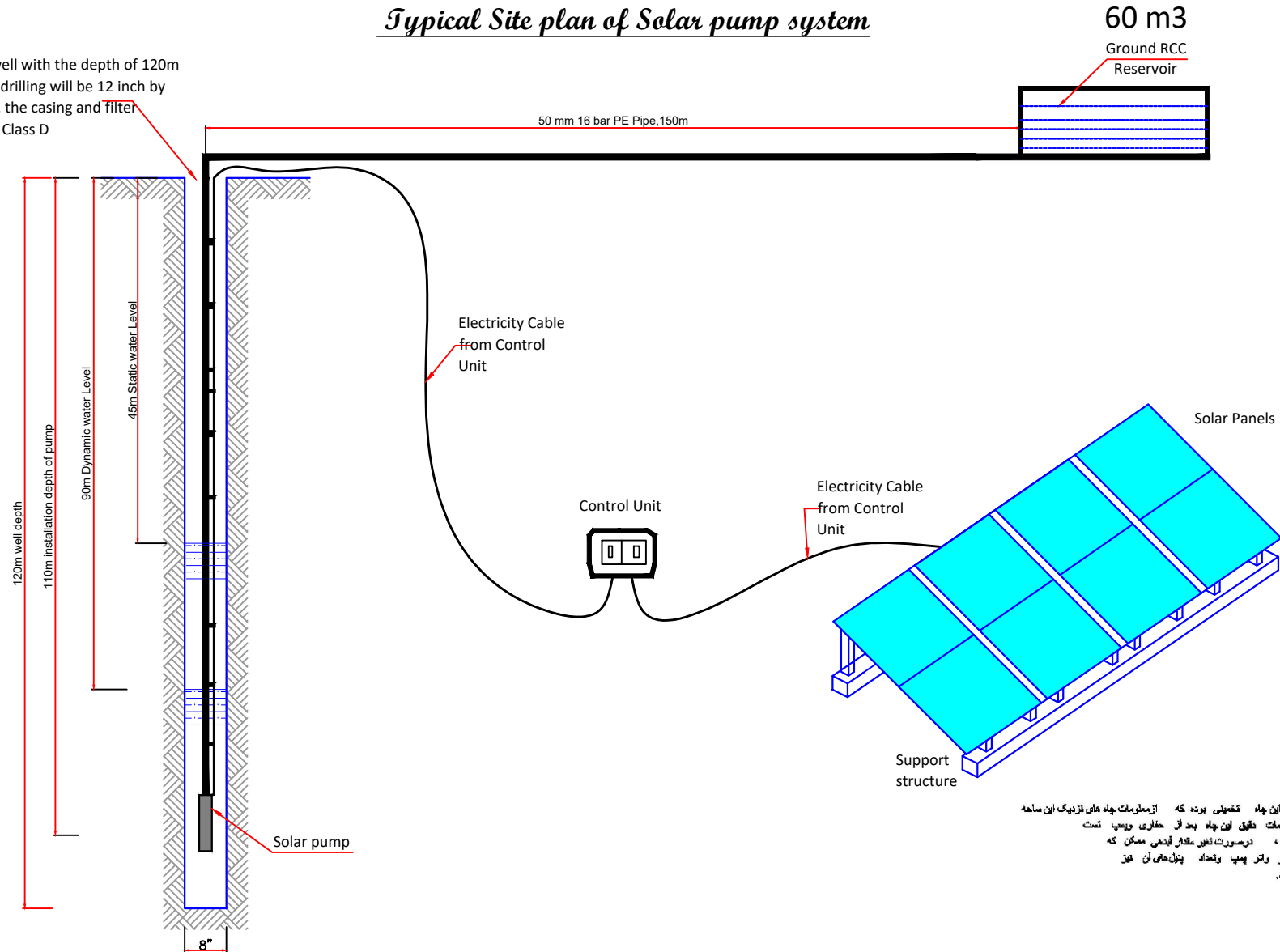
WISH Project

Sarkano-Dunyaee, Sero Village water Supply Project

Typical Site plan of Solar pump system



New proposed well with the depth of 120m and diameter of drilling will be 12 inch by Rotary machine , the casing and filter should be 8 inch Class D



تعمیم فراموش برای این چاه
نقص گرفته و مشخصات دقیق این چاه بعد از
آن به دست خواهد آمد ، در صورت نیاز مقدار آذنی ممکن که
در مشخصات سوار و اثر پمپ و تعداد پمپ های آن نیز
تغییر خواهد کرد.



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department WASH
Drawing Title TDH

All dimension in cm
otherwise stated

Surveyed by	WASH team
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SCALE
16/18
05-May-2024

PROVINCE Kunar
DISTRICT Savkhan
VILLAGE Sero

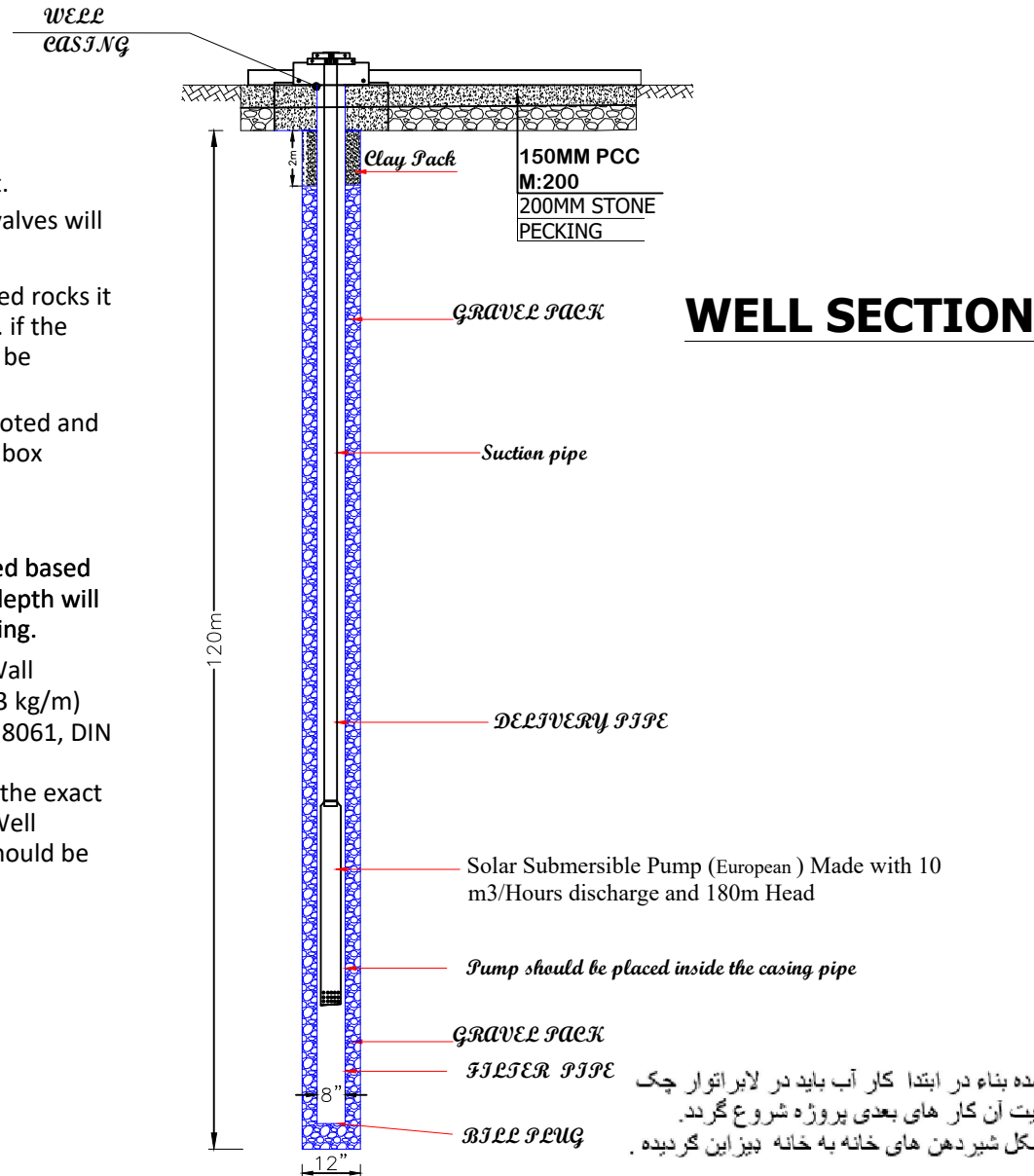
**WISH
Project**

Sarkano-Dunyah, Sero Village water Supply Project



Notes

- 1-Well designed by WASH department.
- 2-The working pressure for pipes and valves will be 16 or 20 bar (290 PSI)
- 3- If the ground stratum are made of bed rocks it no need for installation of casing pipes. if the stratum are made of Loss soil it should be stablized by installation casing pipes.
- 4-Each drilled strata depth should be noted and soil sample should be kept in a sample box separately .
- 5-Pump test for 8 hours.
- 6-the depth of filter pipe has considered based on the previous experience . the true depth will be determined after well practical drilling.
- 7-Diameter=(8") inches, Class D, Min Wall Thickness (10.3) mm, Min weight (10.3 kg/m) According to ASTM D1785 Sch.80, DIN 8061, DIN 8062, ASTM F480 Standards
- 8-the Size of Gravel Packing (3-6) mm, the exact size will be declared after boring and Well Hydrological calculations, the Gravel should be clean and technical acceptable



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)

Department WASH
Drawing Title Well Section

All dimension in cm
otherwise stated

Surveyed by WASH team
Drawing & designed by Abdul Majeed "Khamosh"
Review & check by Eng. M. Tahir "Safi"
Approved by Eng. Shah Faisal

DATE 17/18
05-May-2024

PROVINCE Kunar
DISTRICT Sarkana
VILLAGE Sero

WISH Project

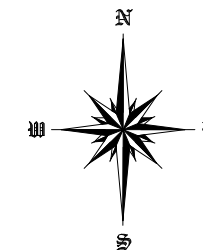
Sarkano- Dunyae- Sero Village water Supply Project

between two solar panel vertical array frame should have 10 cm space for air vent to protect the solar frame from sliding and overturning.

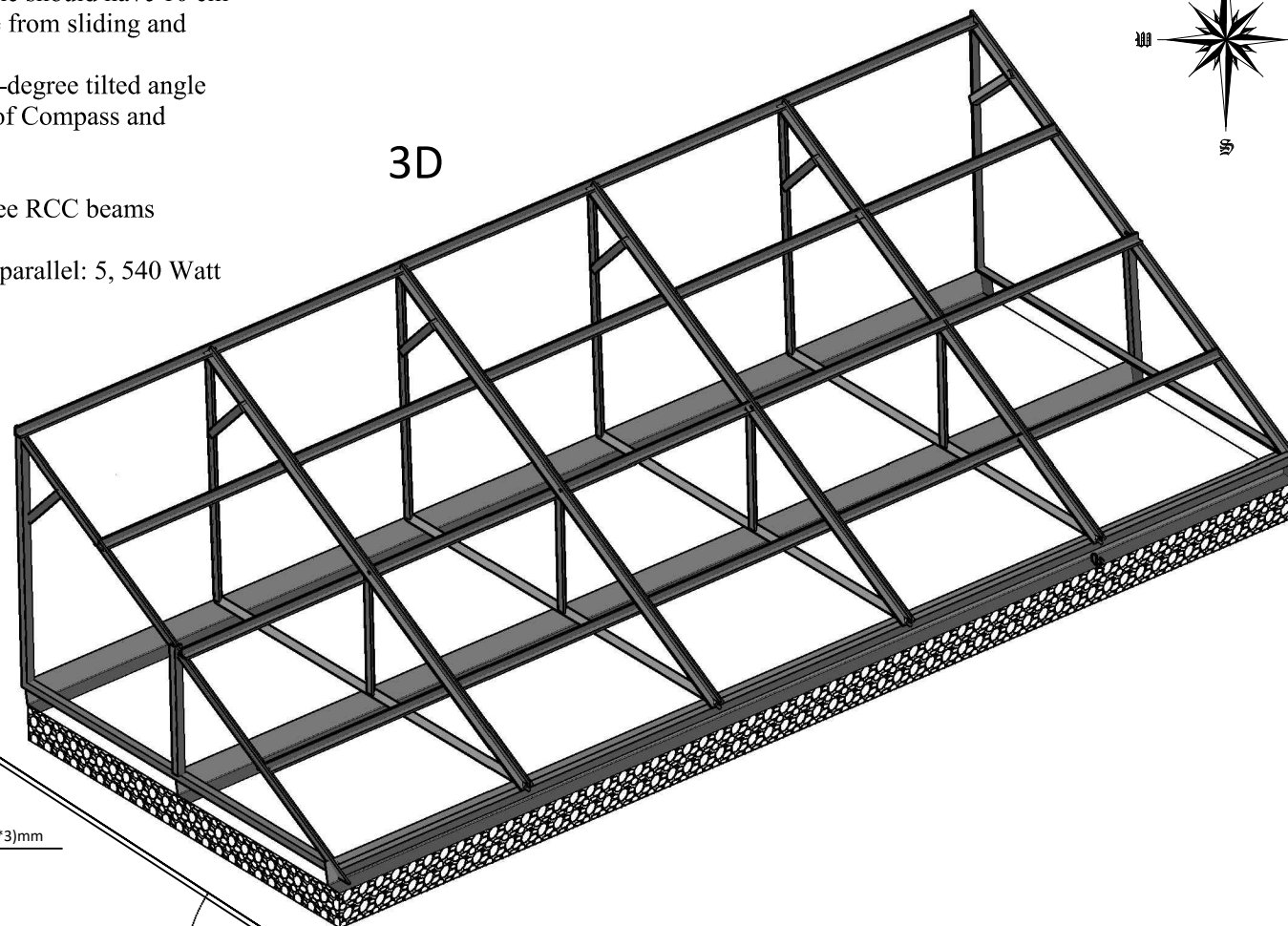
4- the solar panel's frame should have a 33-degree tilted angle with the surface of the yard as instruction of Compass and Groundfos software's and product.

5- under the frame we have (30*30)cm three RCC beams according to the drawing

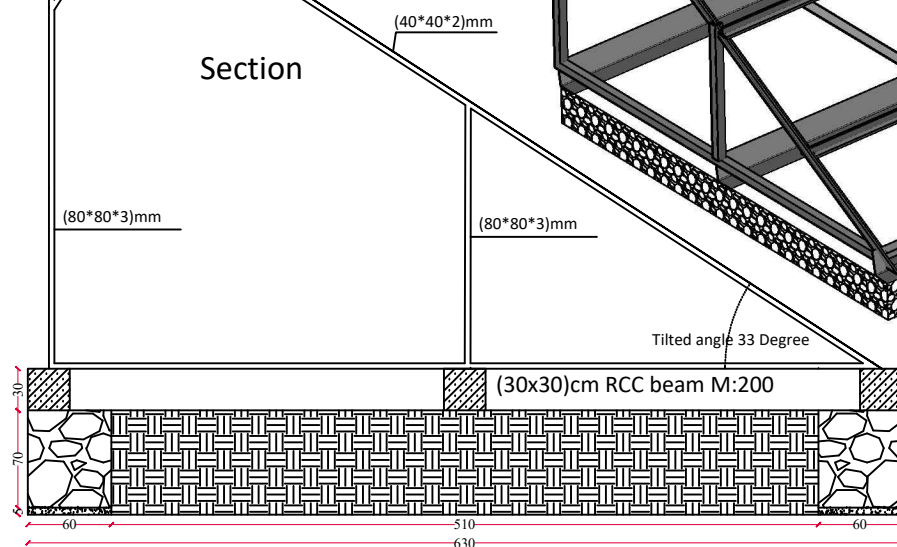
6- Number of solar modules in series: 4 in parallel: 5, 540 Watt or 4 in Parallel: 10, 270Watt



3D



Section



IRW

Islamic Relief Worldwide
WASH Initiative for Strengthening Health (WISH)
Department WASH
Drawing Title Solar Panel Plan Details

All dimension in cm
otherwise stated

Surveyed by WASH team
Drawing & designed by Abdul Majeed "Khamosh"
Review & check by Eng. M. Tahir "Safi"
Approved by Eng. Shah Faisal

SHEET NO. 18/18
05-May-2024

PROVINCE Kunar
DISTRICT Sarkano
VILLAGE Sero

WISH
Project