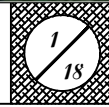
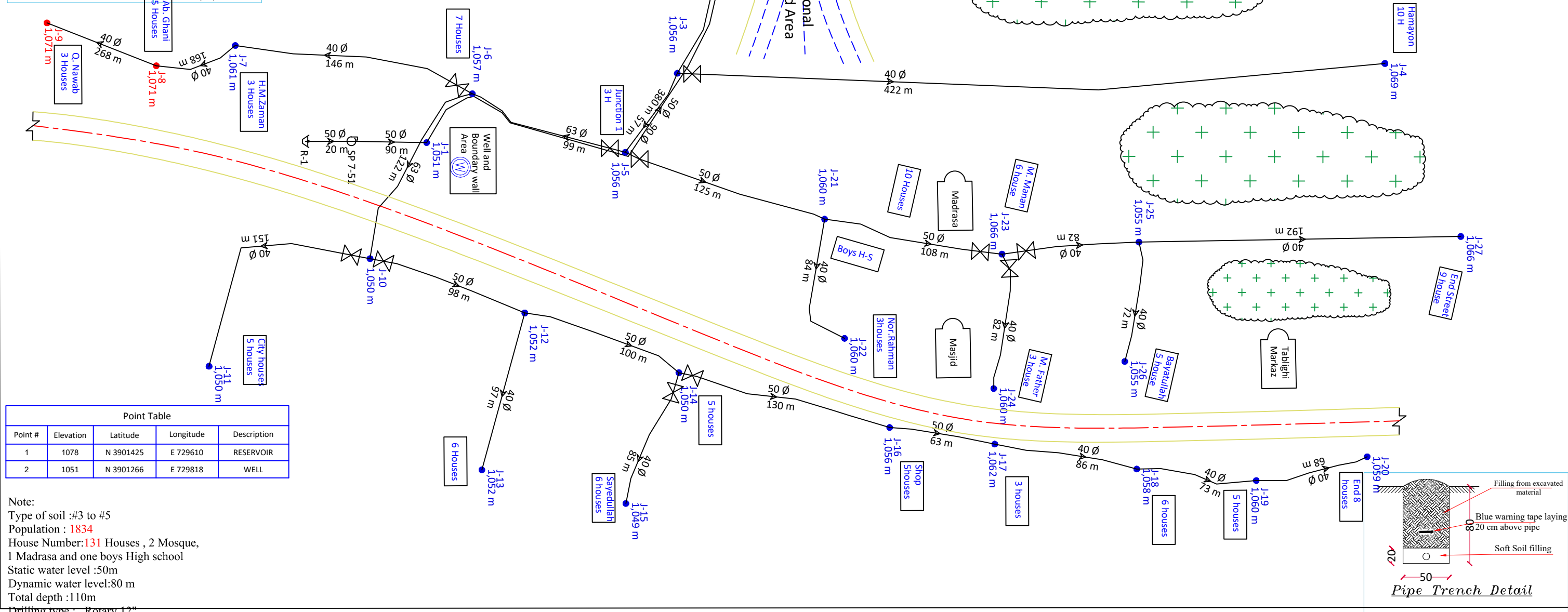
	<i>IRW</i>	Islamic Relief Worldwide		All dimension in cm otherwise stated	Surveyed by	Eng. Mohammad Ayaz	<i>SHEET</i> <i>NO.</i> 	PROVINCE	Kunar	<i>WISH Project</i>
		WASH Initiative for Strengthening Health (WISH)			Drawing & designed by	WASH Team		DISTRICT	Nari	
		Department	WASH		Review & check by	Eng. M. Tahir "Safi"		VILLAGE	Faqirabad	
		Drawing Title	Being Map Site Plan		Approved by	Eng. Shah Faisal		05-May-2024		



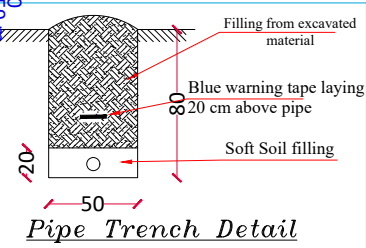
LEGEND



Propossed Well	Ⓜ
Maine line	—
Distribution Line	—
Reservoir Area	▒
Tertiary Road	~
Village houses	□
Agricultural Land	⊕
Mosque	⬢
Hill	⬢
Control Valve	⋈



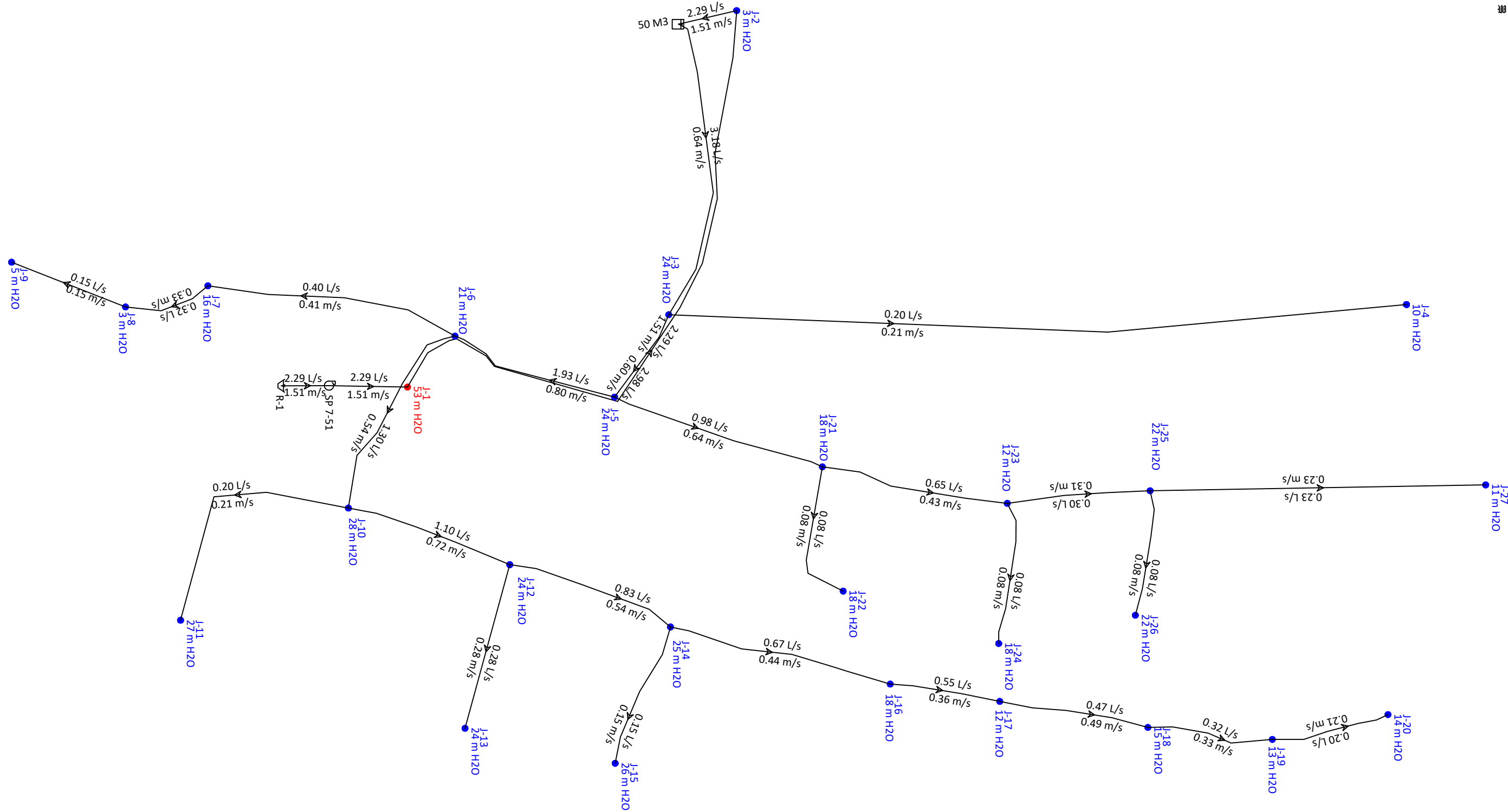
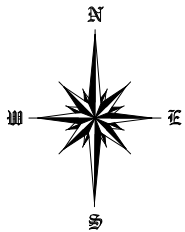
Point Table				
Point #	Elevation	Latitude	Longitude	Description
1	1078	N 3901425	E 729610	RESERVOIR
2	1051	N 3901266	E 729818	WELL


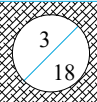
Note:  
 Type of soil :#3 to #5  
 Population : 1834  
 House Number:131 Houses , 2 Mosque,  
 1 Madrasa and one boys High school  
 Static water level :50m  
 Dynamic water level:80 m  
 Total depth :110m  
 Drilling type : Rotary 12".



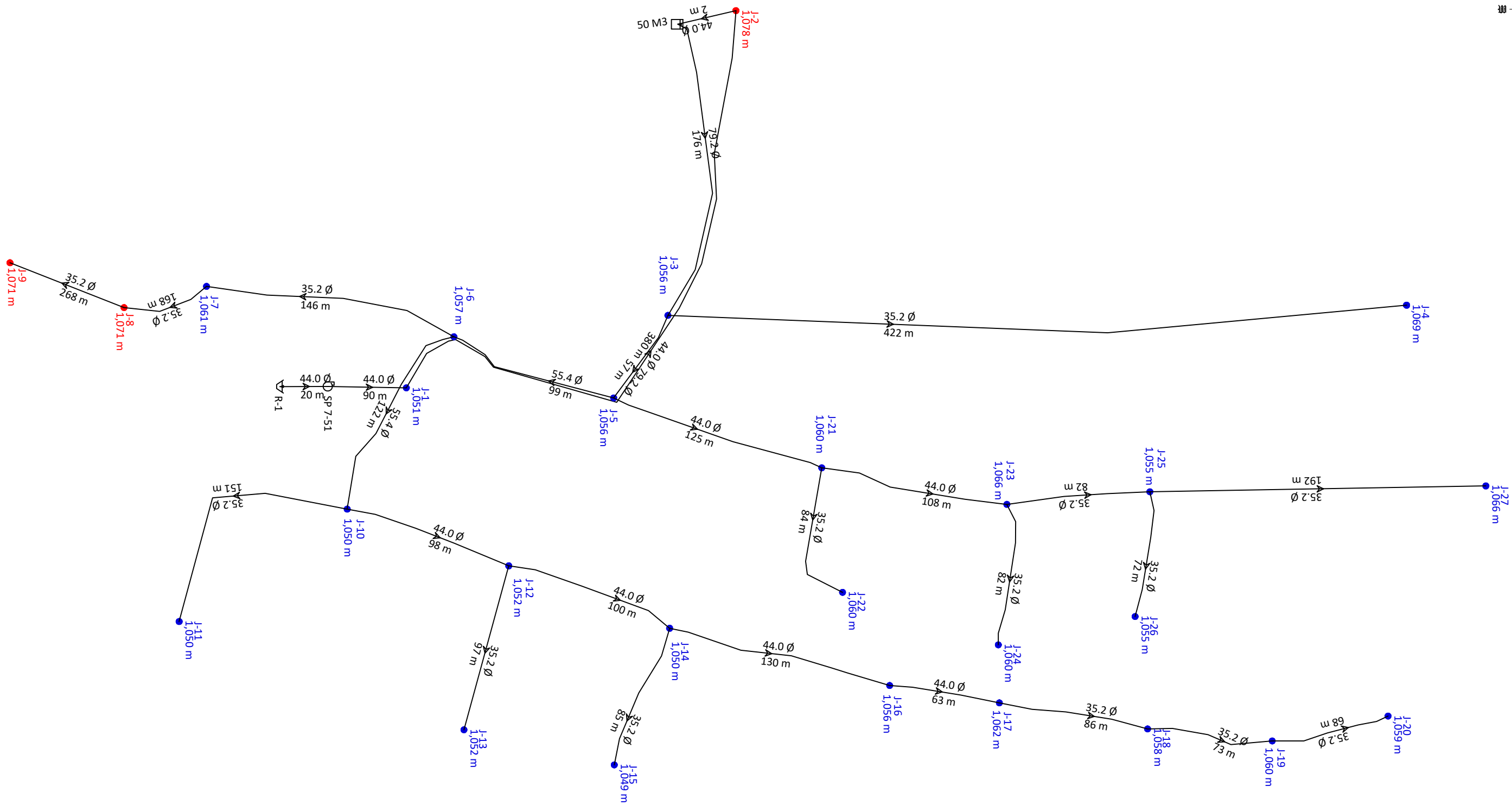
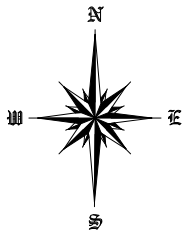
	Islamic Relief Worldwide WASH Initiative for Strengthening Health (WISH)		Surveyed by	Eng.Mohammad Ayaz	SHEET NO. 	PROVINCE	Kunar	WISH
	Department	WASH	Drawing & designed by	WASH Team		DISTRICT	Nari	
	Drawing Title	Final Site Plan	Review & check by	Eng. M. Tahir "Safi"		VILLAGE	Faqir Abad	
	All dimension in cm otherwise stated		Approved by	Eng. Shah Faisal		05-May-2024		

Nari - Faqir Abad Village water Supply Project



	Islamic Relief Worldwide WASH Initiative for Strengthening Health (WISH)			Surveyed by	Eng. Mohammad Ayaz	SHEET NO. 	PROVINCE	Kunar	WISH
	Department	WASH	All dimension in (m) otherwise stated	Drawing & designed by	WASH Team		DISTRICT	Nari	
	Drawing Title	Node ID, Flow in (L/s), Velocity in (M/s), and Pressure (mH2O)		Review & check by	Eng. M. Tahir "Safi"		VILLAGE	Faqir Abad	
				Approved by	Eng. Shah Faisal				
						09-May-2024			

Nari - Faqir Abad Village water Supply Project



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

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

All dimension in (m)  
otherwise stated

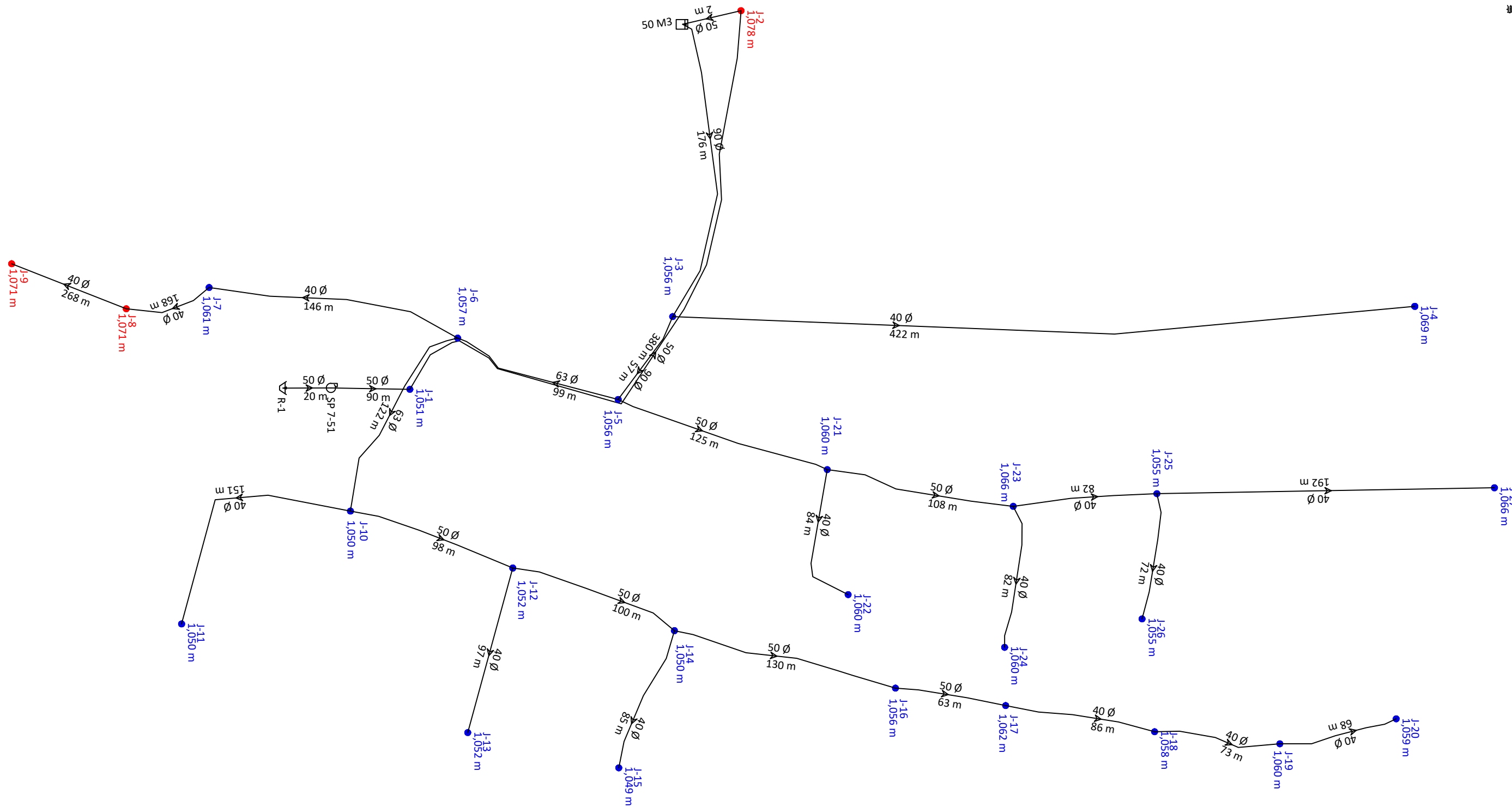
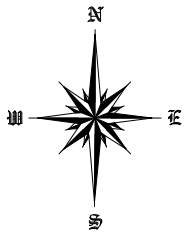
Surveyed by	Eng. Mohammad Ayaz
Drawing & designed by	WASH Team
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET NO.	4/18
09-May-2024	

PROVINCE	Kunar
DISTRICT	Nari
VILLAGE	Faqir Abad

WISH

Nari - Faqir Abad 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), Elevation in (m)

All dimension in (m)  
otherwise stated

Surveyed by	Eng. Mohammad Ayaz
Drawing & designed by	WASH Team
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET NO.		PROVINCE	Kunar
		DISTRICT	Nari
		VILLAGE	Faqir Abad

PROVINCE	Kunar
DISTRICT	Nari
VILLAGE	Faqir Abad

WISH

# PLAN

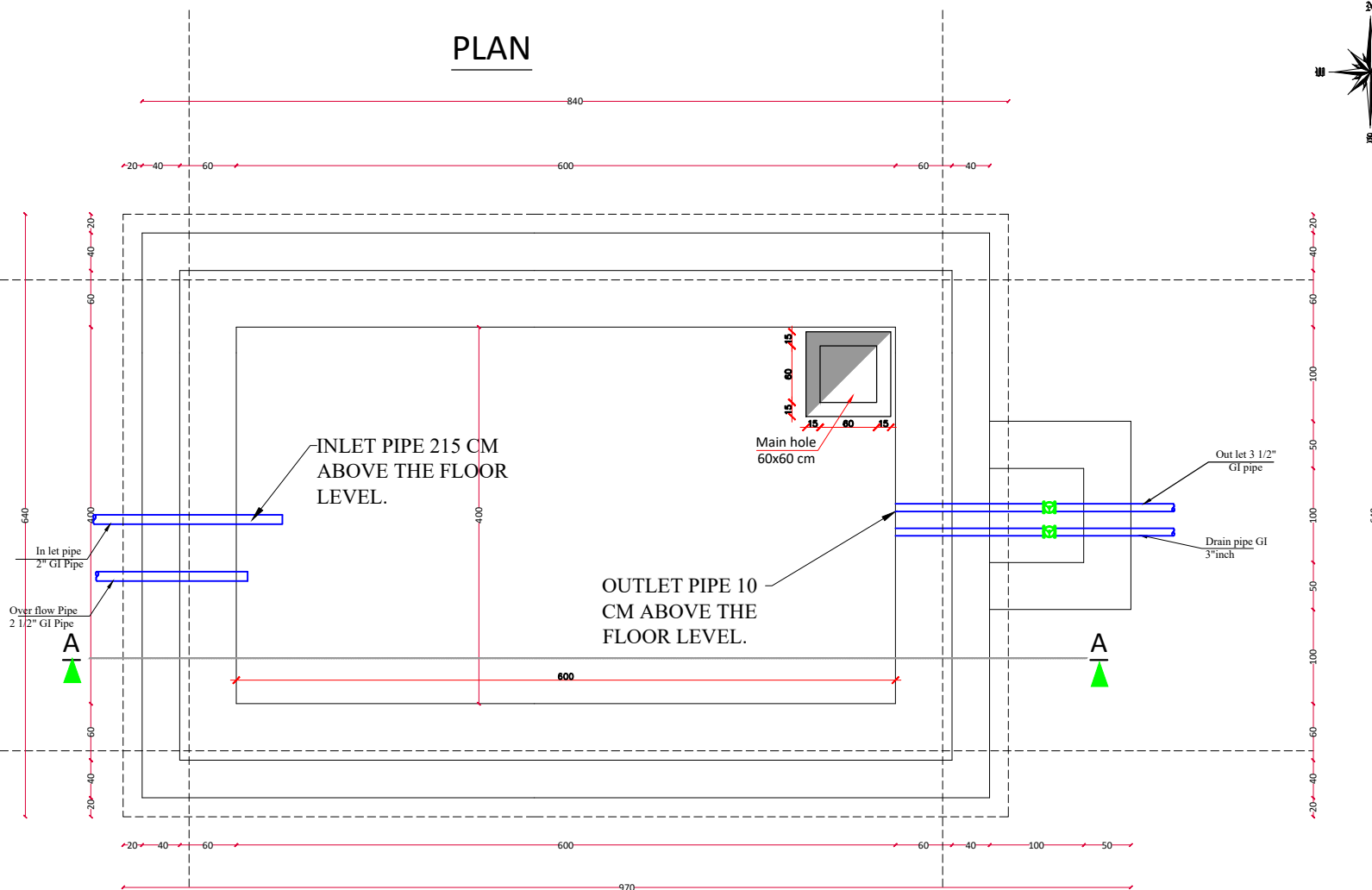


A

B

1

2



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department WASH  
Drawing Title 50 Cubic Meter Stone Masonry Reservoir Plan

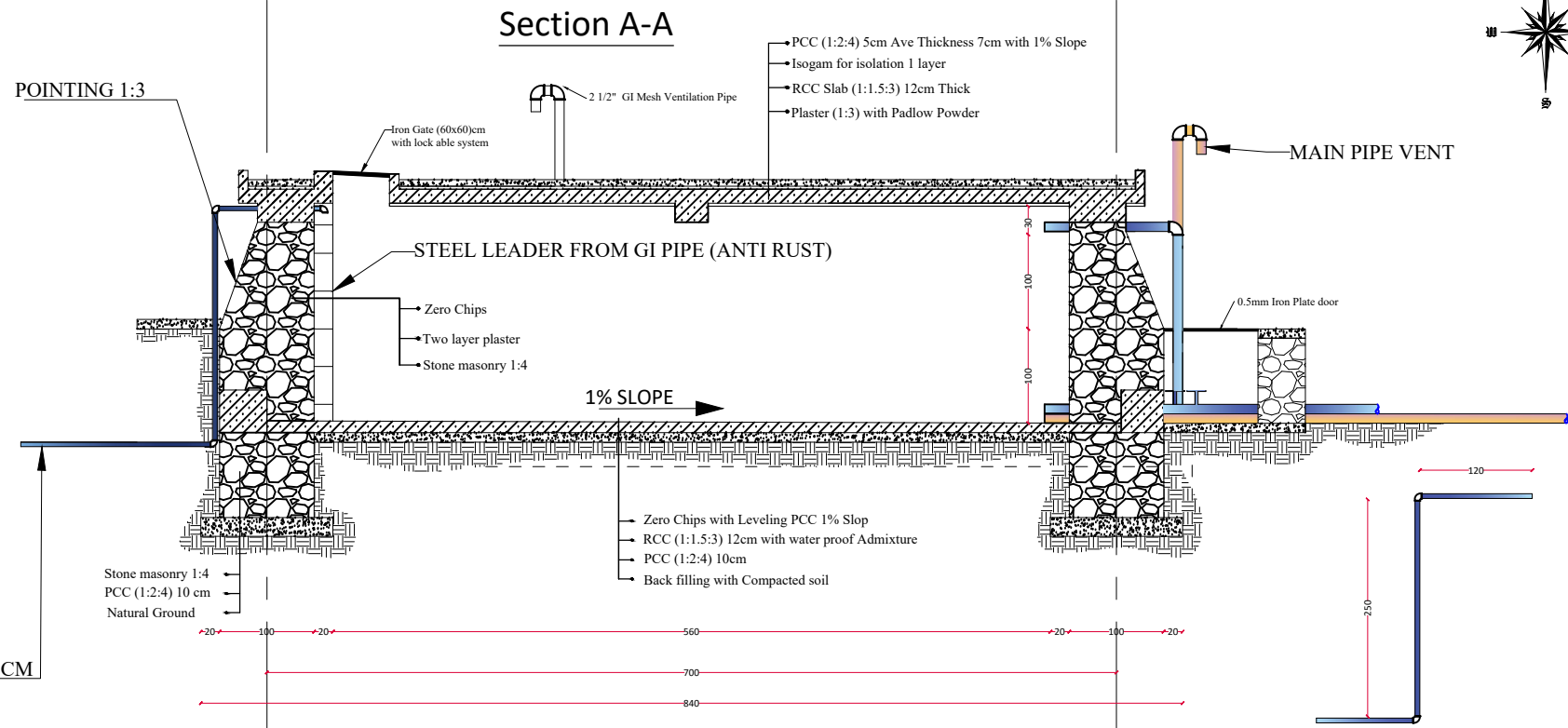
All dimension in cm  
otherwise stated

Surveyed by WASH team  
Drawing & designed by Eng. Mohammad Ayaz  
Review & check by Eng. M. Tahir "Safi"  
Approved by Eng. Shah Faisal

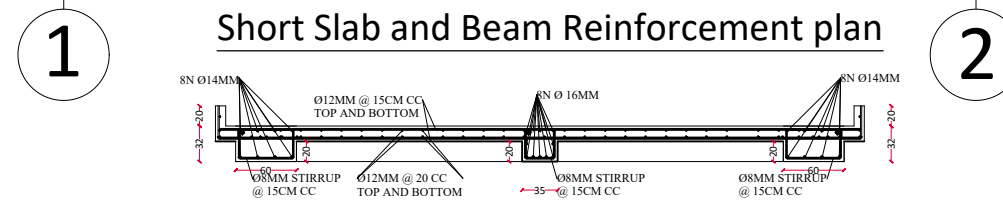
SHEET NO. 6/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Nari  
VILLAGE Faqirabad

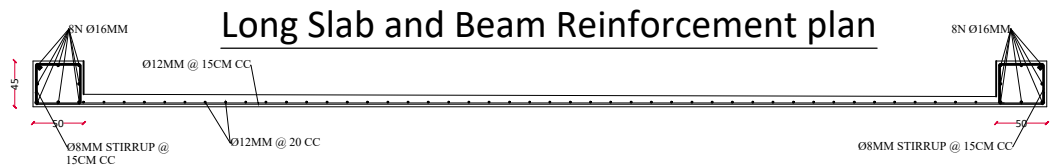
WISH  
Project



**Short Slab and Beam Reinforcement plan**



**Long Slab and Beam Reinforcement plan**



**IRW**

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department WASH  
Drawing Title Water Reservoir Section A-A

All dimension in cm  
otherwise stated

Surveyed by  
Drawing & designed by  
Review & check by  
Approved by

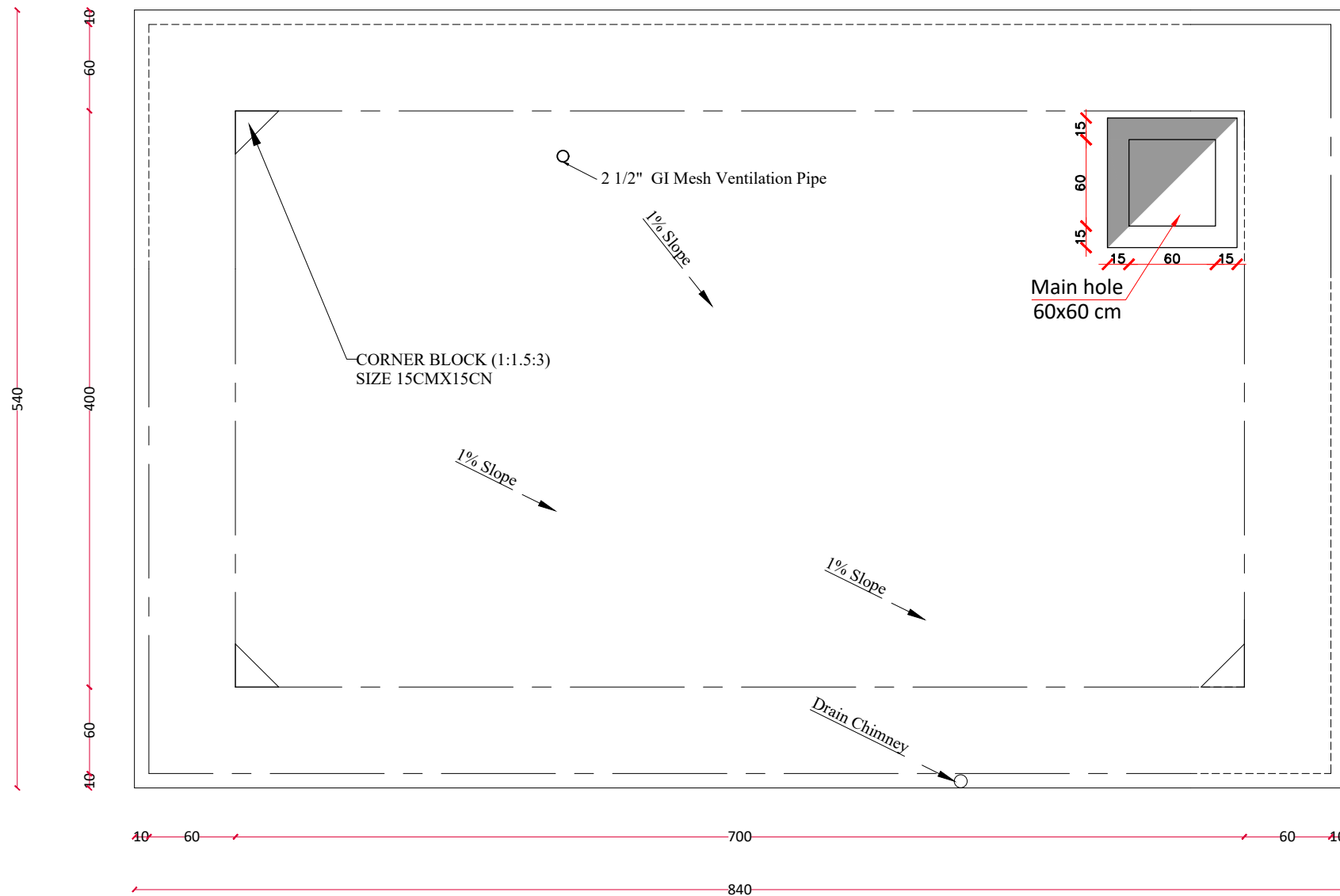
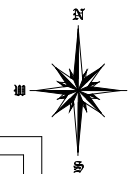
WASH team  
Eng. Mohammad Ayaz  
Eng. M. Tahir "Safi"  
Eng. Shah Faisal

SHEET NO. 7/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Nari  
VILLAGE Faqirabad

**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

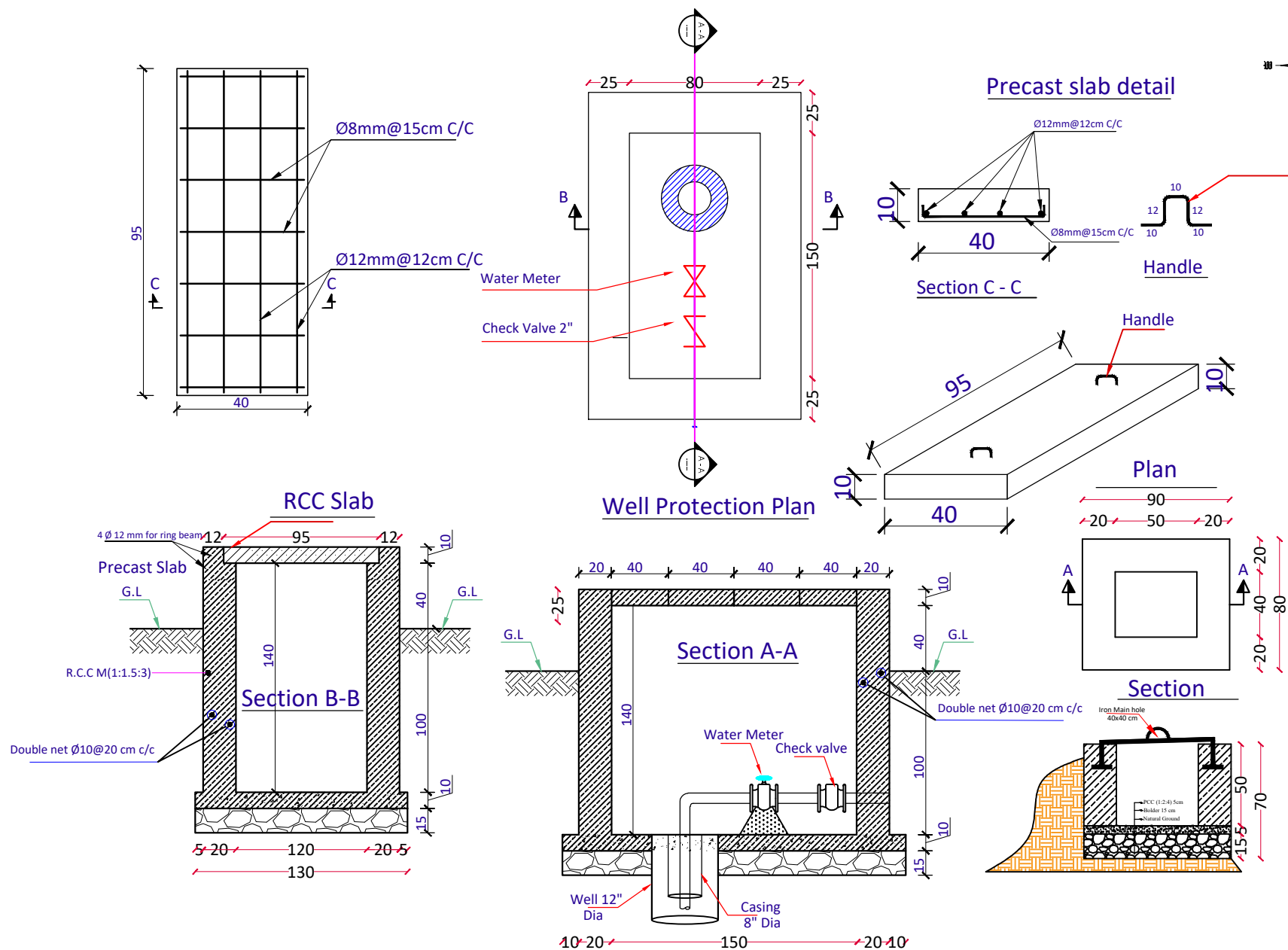
Surveyed by: WASH team  
Drawing & designed by: Eng. Mohammad Ayaz  
Review & check by: Eng. M. Tahir "Safi"  
Approved by: Eng. Shah Faisal

SHEET NO. 8/18  
05-May-2024

PROVINCE: Kunar  
DISTRICT: Nari  
VILLAGE: Faqirabad

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 Eng. Mohammad Ayaz  
Review & check by Eng. M. Tahir "Safi"  
Approved by Eng. Shah Faisal

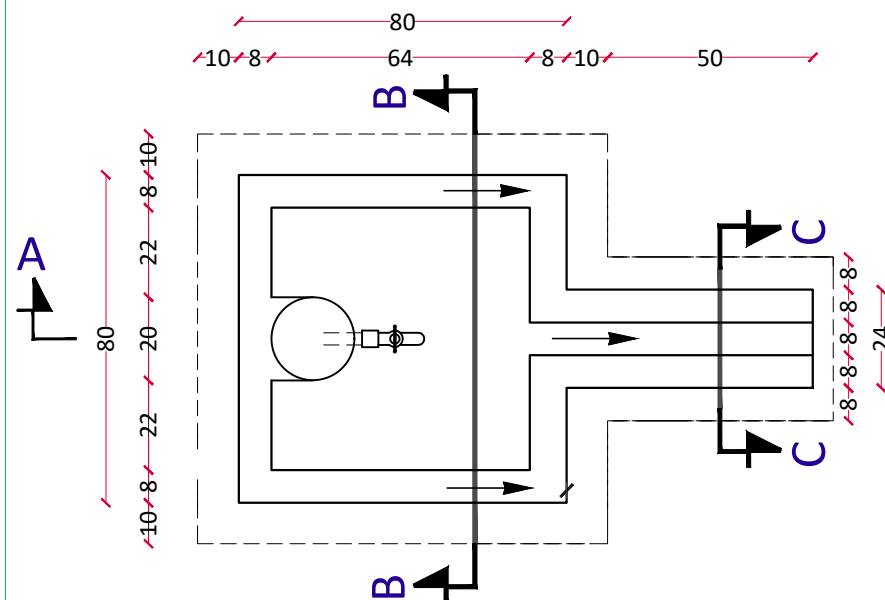
SHEET NO. 9/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Nari  
VILLAGE Faqirabad

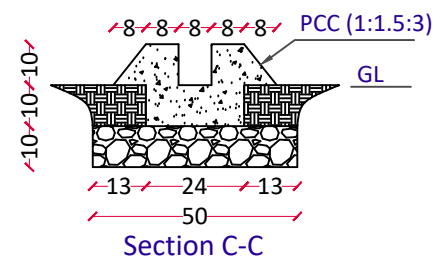
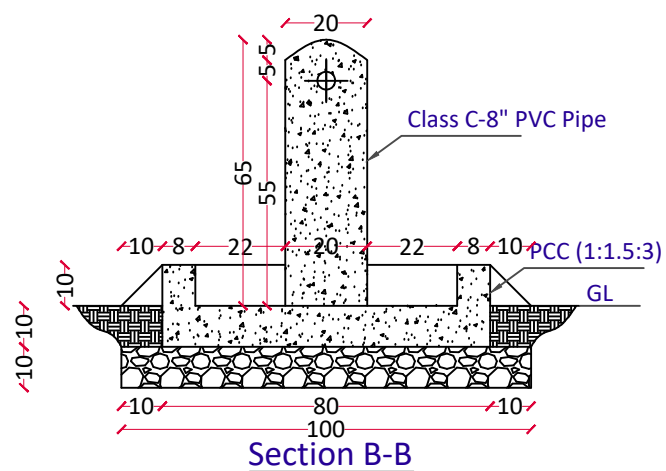
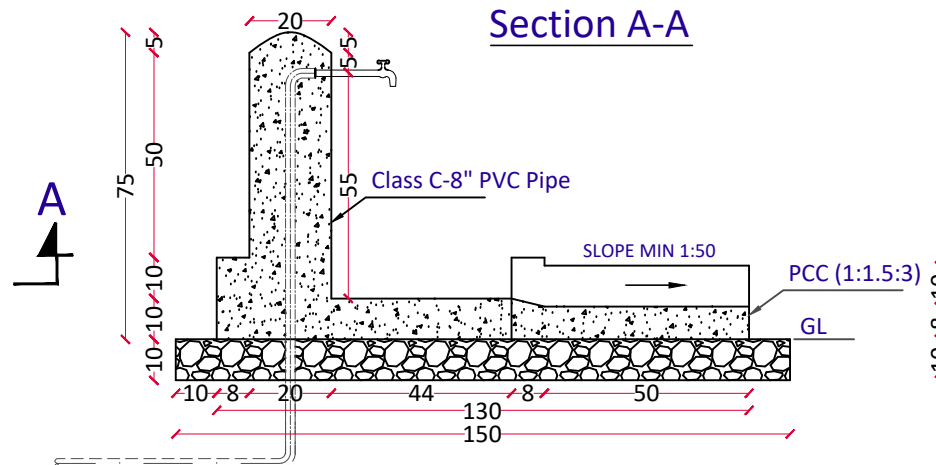
WISH  
Project



# Stand Tap



## Section A-A



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department: WASH  
Drawing Title: House connection stand tape

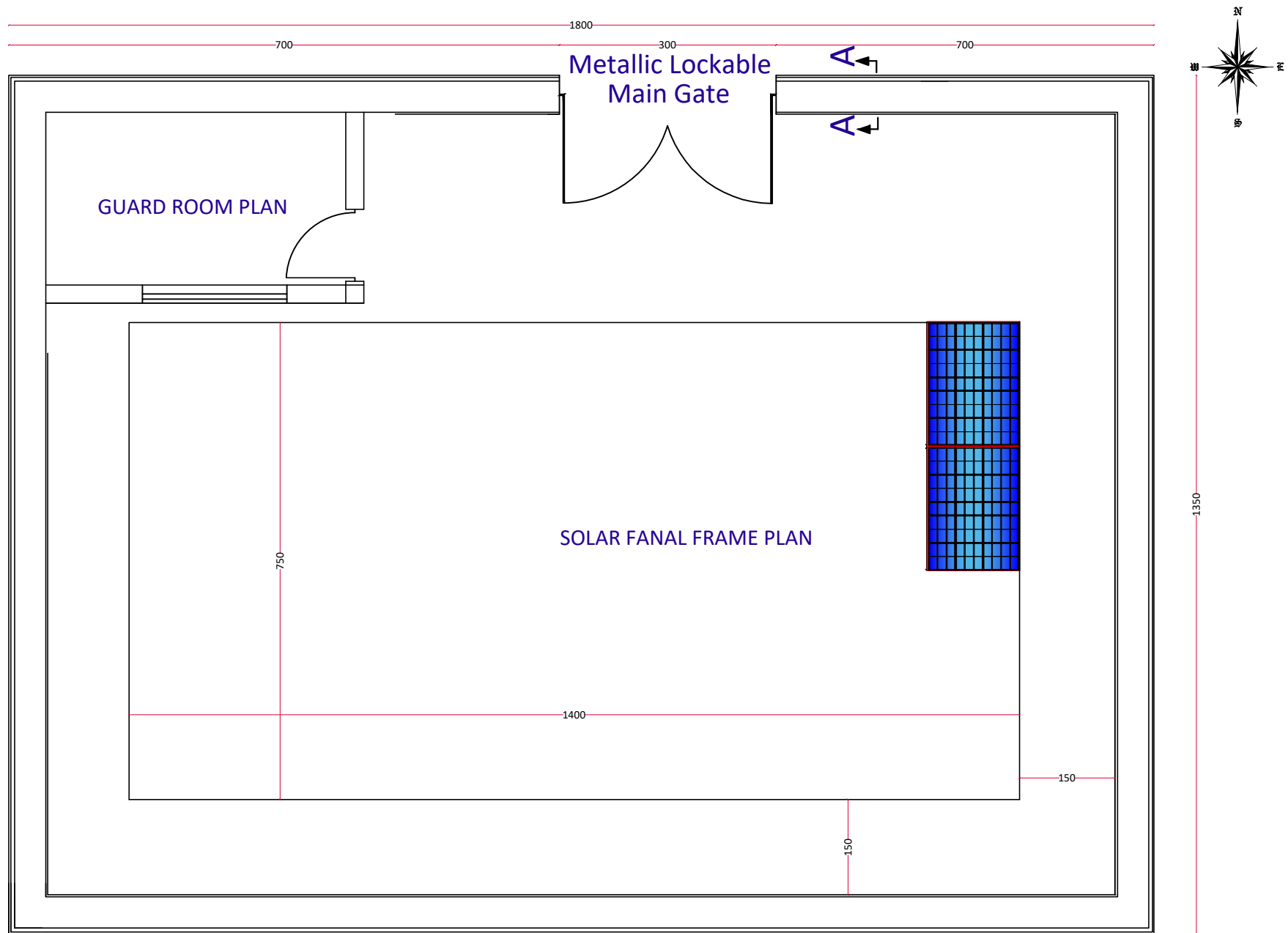
All dimension in cm  
otherwise stated

Surveyed by: WASH team  
Drawing & designed by: Eng. Mohammad Ayaz  
Review & check by: Eng. M. Tahir "Safi"  
Approved by: Eng. Shah Faisal


SHEET NO. 10/18  
05-May-2024

PROVINCE: Kunar  
DISTRICT: Nari  
VILLAGE: Faqirabad

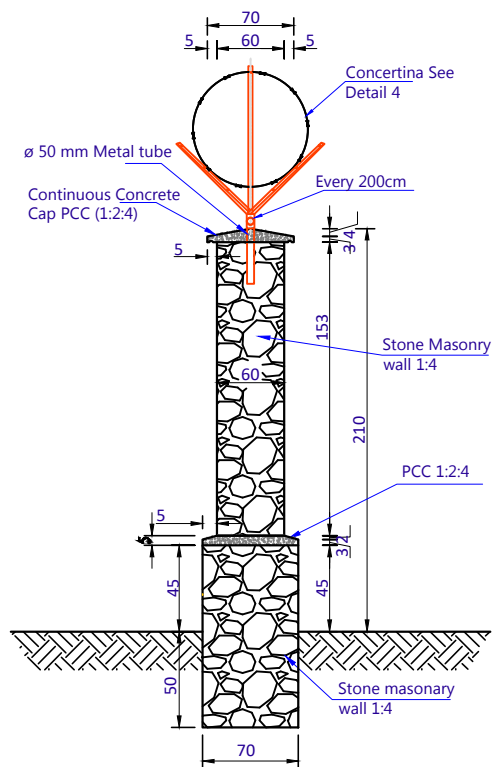
WISH  
Project



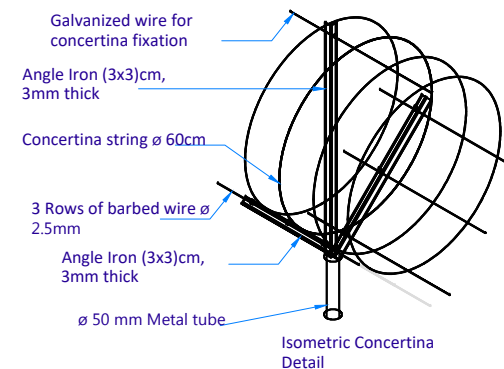
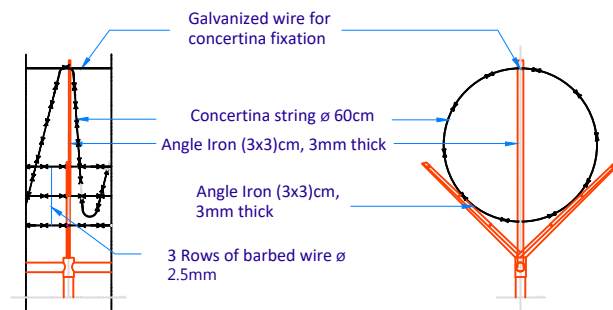
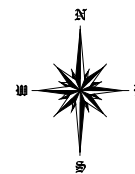
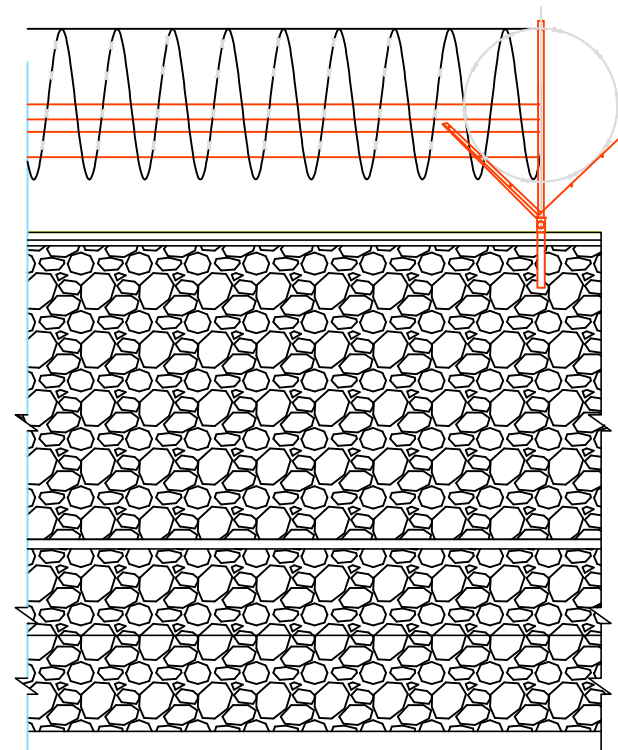
IRW

Islamic Relief Worldwide			Surveyed by	WASH team	SHEET NO. 	PROVINCE	Kunar	WISH Project
WASH Initiative for Strengthening Health (WISH)			Drawing & designed by	Eng. Mohammad Ayaz		DISTRICT	Nari	
Department	WASH	All dimension in cm otherwise stated	Review & check by	Eng. M. Tahir "Safi"		VILLAGE	Faqirabad	
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

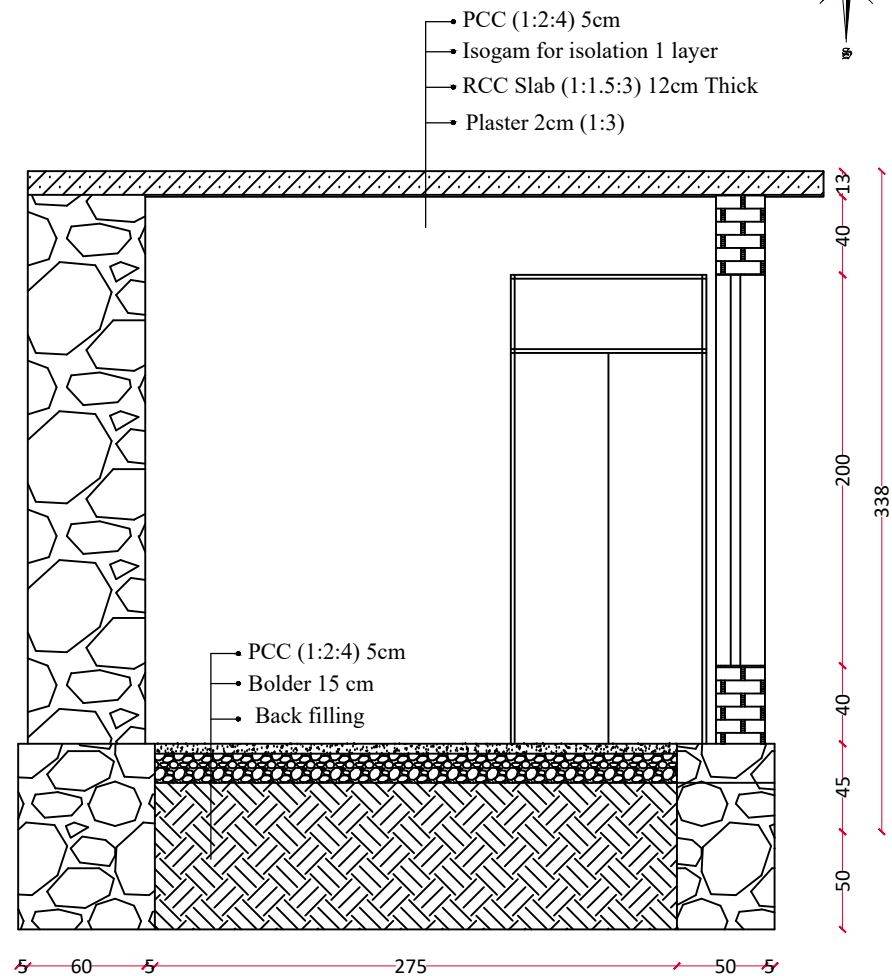
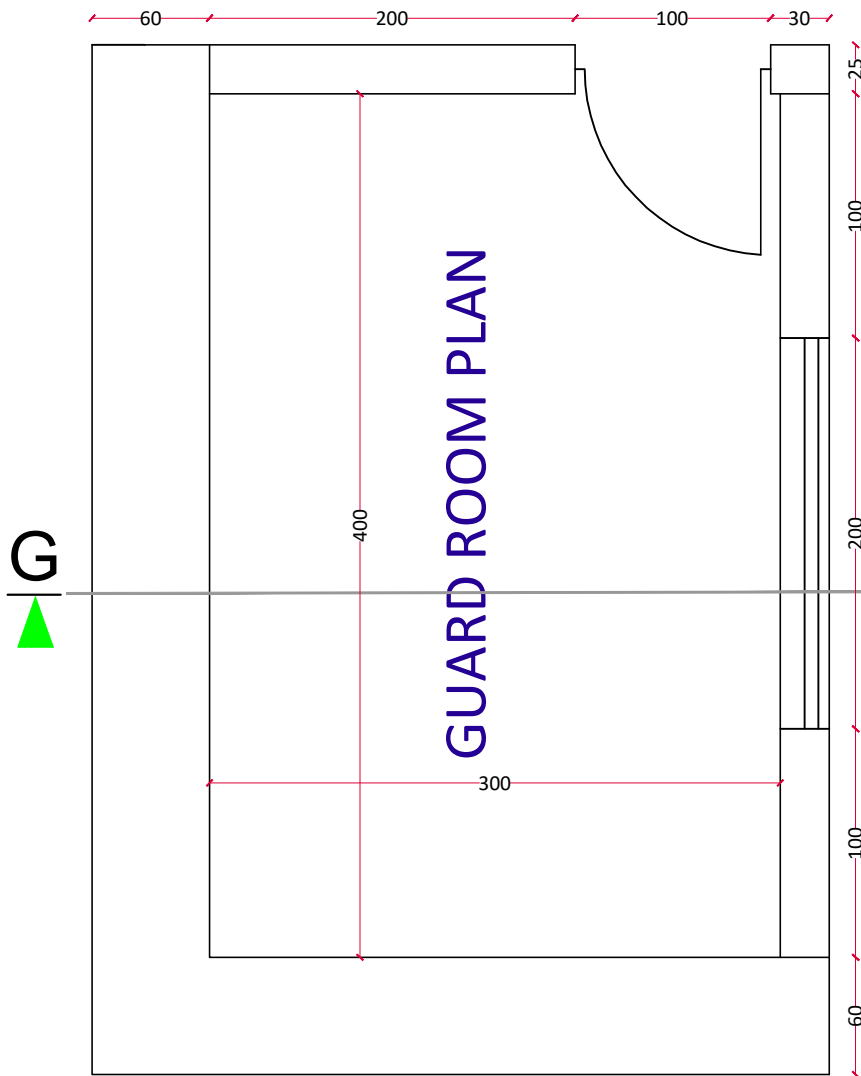
All dimension in cm  
otherwise stated

Surveyed by WASH team  
Drawing & designed by Eng. Mohammad Ayaz  
Review & check by Eng. M. Tahir "Safi"  
Approved by Eng. Shah Faisal

SHEET NO. 12/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Nari  
VILLAGE Faqirabad

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

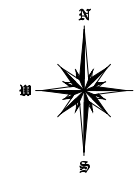
Surveyed by: WASH team  
Drawing & designed by: Eng. Mohammad Ayaz  
Review & check by: Eng. M. Tahir "Safi"  
Approved by: Eng. Shah Faisal

SHEET NO. 13/18  
05-May-2024

PROVINCE: Kunar  
DISTRICT: Nari  
VILLAGE: Faqirabad

**WISH Project**

### Typical Site plan of Solar pump system



50 m<sup>3</sup>  
Ground RCC  
Reservoir

50 mm 16 bar PE Pipe, 180m

Electricity Cable  
from Control  
Unit

Control Unit

Electricity Cable  
from Control  
Unit

## Solar Panels

Support structure

Solar pump

وت


تمام لرقام برای این چاه معمولی بوده که از معلومات چاه های نزدیک این سامه اخذ گردیده و معلومات دقیق این چاه بعد از حفاری و پمپ تست آن به دست خواهد آمد، در صورت تغییر مقدار آبدهی ممکن که در مشخصات سوال و اثر پمپ و تعداد پیل های آن تغییر خواهد کرد.


$$JRW$$

Department	WASH
Drawing Title	TDH

All dimension in cm  
otherwise stated

Surveyed by	WASH team
Drawing & designed by	Eng. Mohammad Ayaz
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

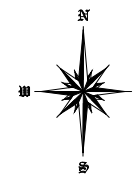
SHEET NO.  05-May-2024

PROVINCE	Kunar
DISTRICT	Nari
VILLAGE	Fagir Abad

WISH  
Project

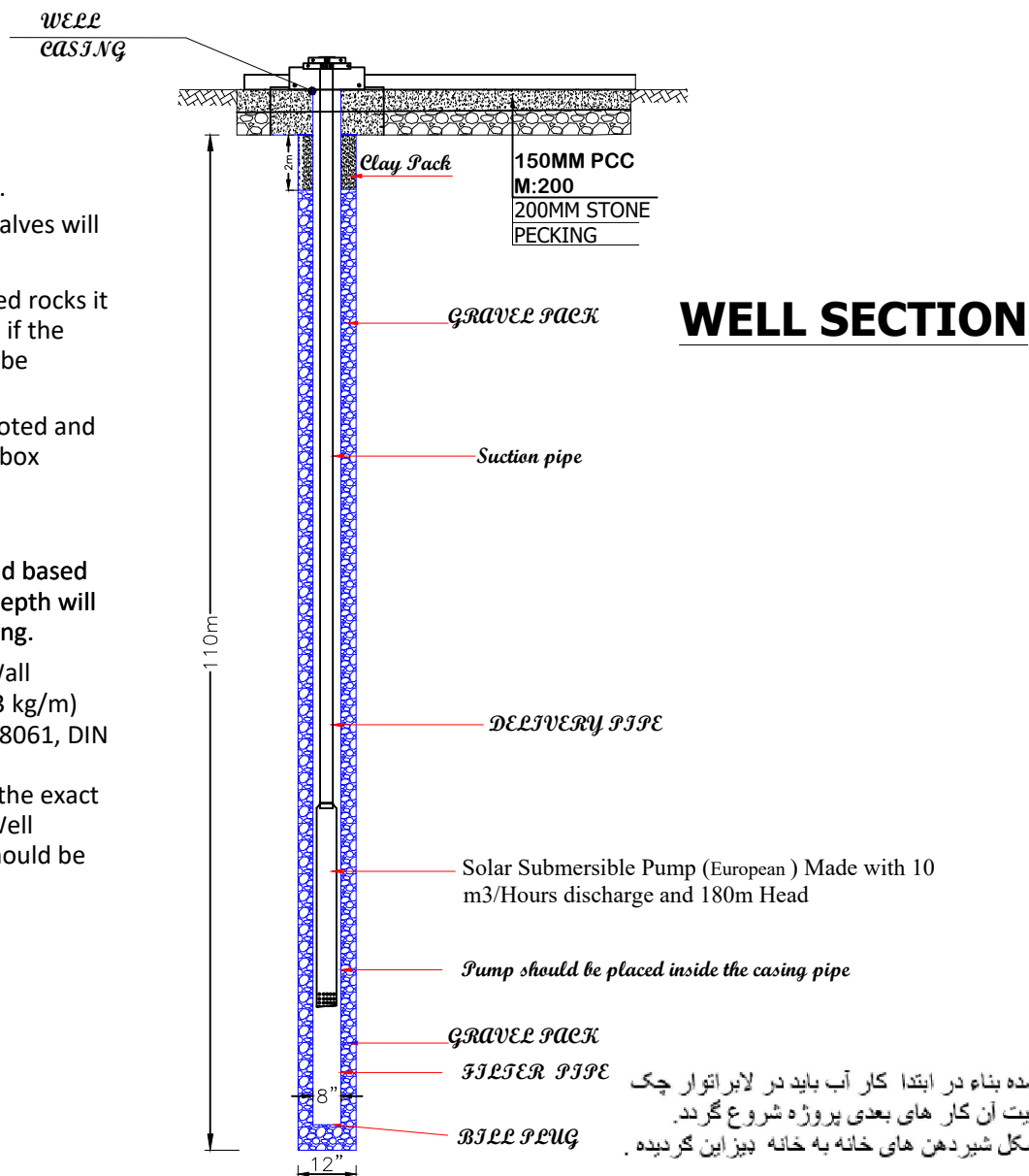


# Faqir Abad Village water Supply Project



## 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



## WELL SECTION

نوت:

از اینکه آب چاه در لایراتوار تست نشده بناء در ابتدا کار آب باید در لایراتوار چک شود و بعد از حصول اطمینان از کیفیت آن کار های بعدی پروژه شروع گردد. همچنان نظر به مشخصات شبکه به شکل شیر دهن های خانه به خانه دیزاین گردیده .



**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 Eng. Mohammad Ayaz  
Review & check by Eng. M. Tahir "Safi"  
Approved by Eng. Shah Faisal

SHEET NO. 17/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Nari  
VILLAGE Faqir Abad

**WISH Project**

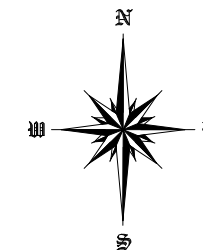
# Faqir Abad Village water Supply Project

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

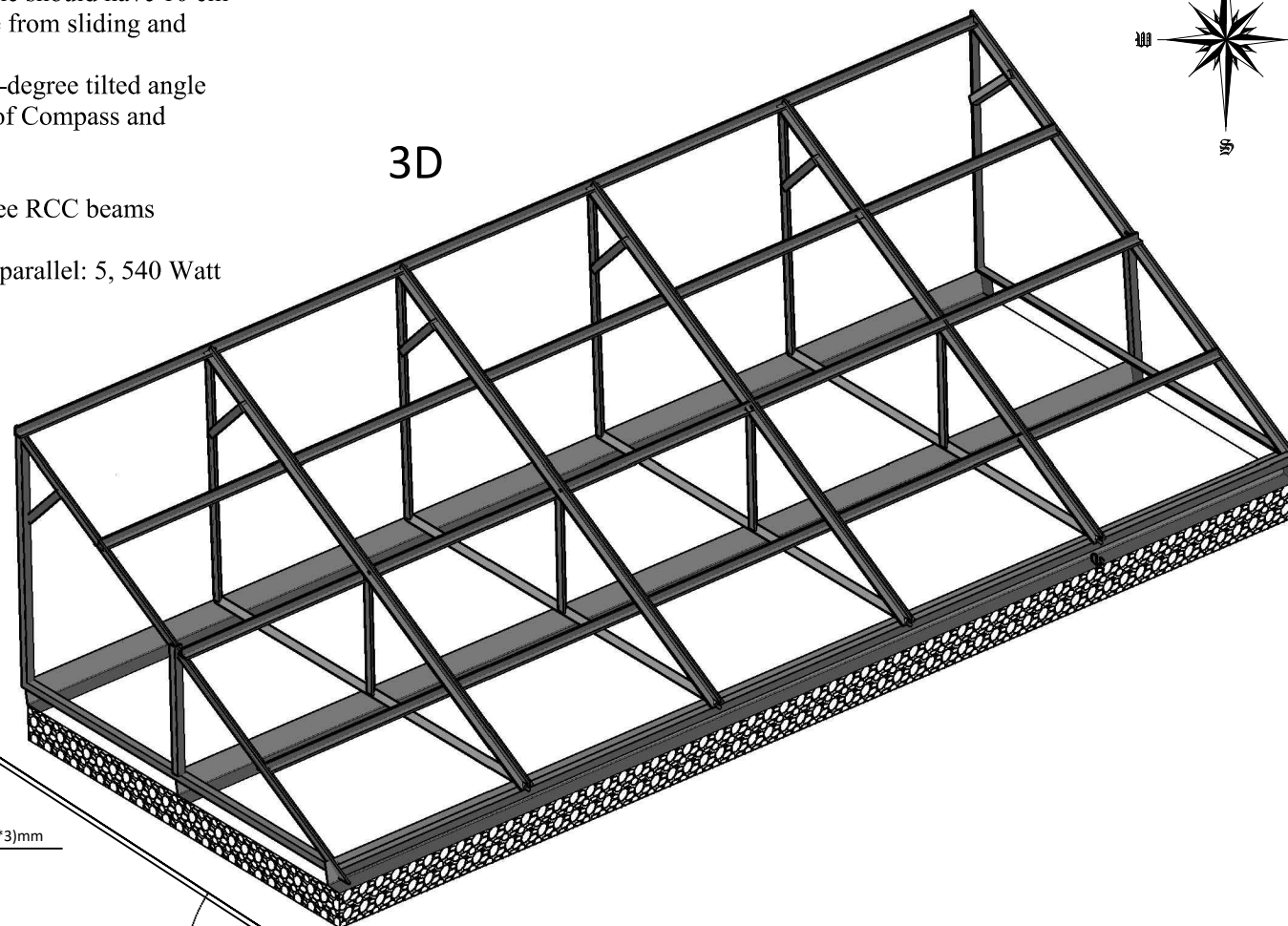
4- the solar panel's frame should have a 33-degree tilted angle with the surface of the yard as instruction of Compass and Groundfos software's and product.

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

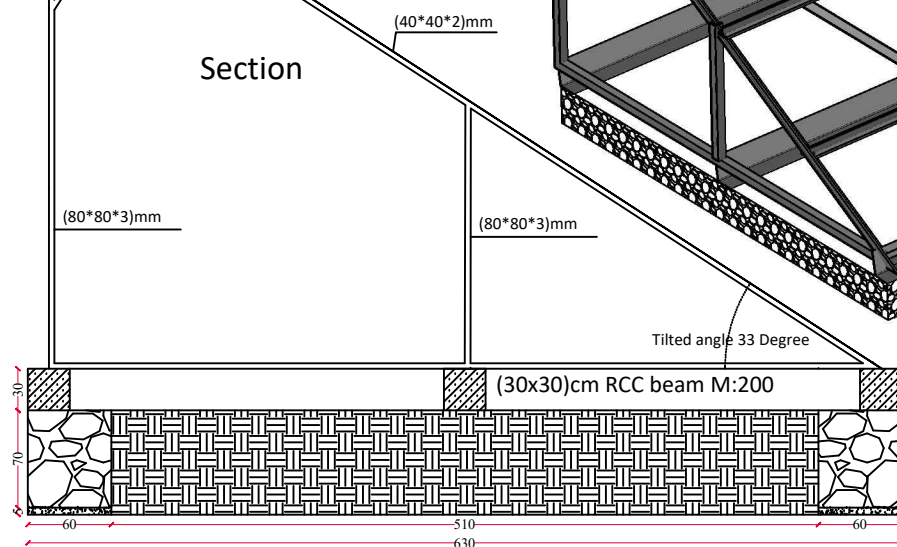
6- Number of solar modules in series: 4 in parallel: 5, 540 Watt or 4 in Parallel: 10, 270Watt



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	Eng. Mohammad Ayaz
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET NO. 18/18  
05-May-2024

PROVINCE	Kunar
DISTRICT	Nari
VILLAGE	Faqir Abad

WISH  
Project