













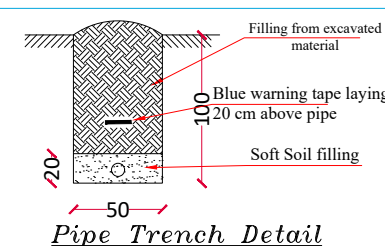
Point Table				
Point #	Elevation	Latitude	Longitude	Description
1	2324	N 3824081	E 709763	RESERVOIR
2	2286	N 3823722	E 709894	Water point (well)

LEGEND

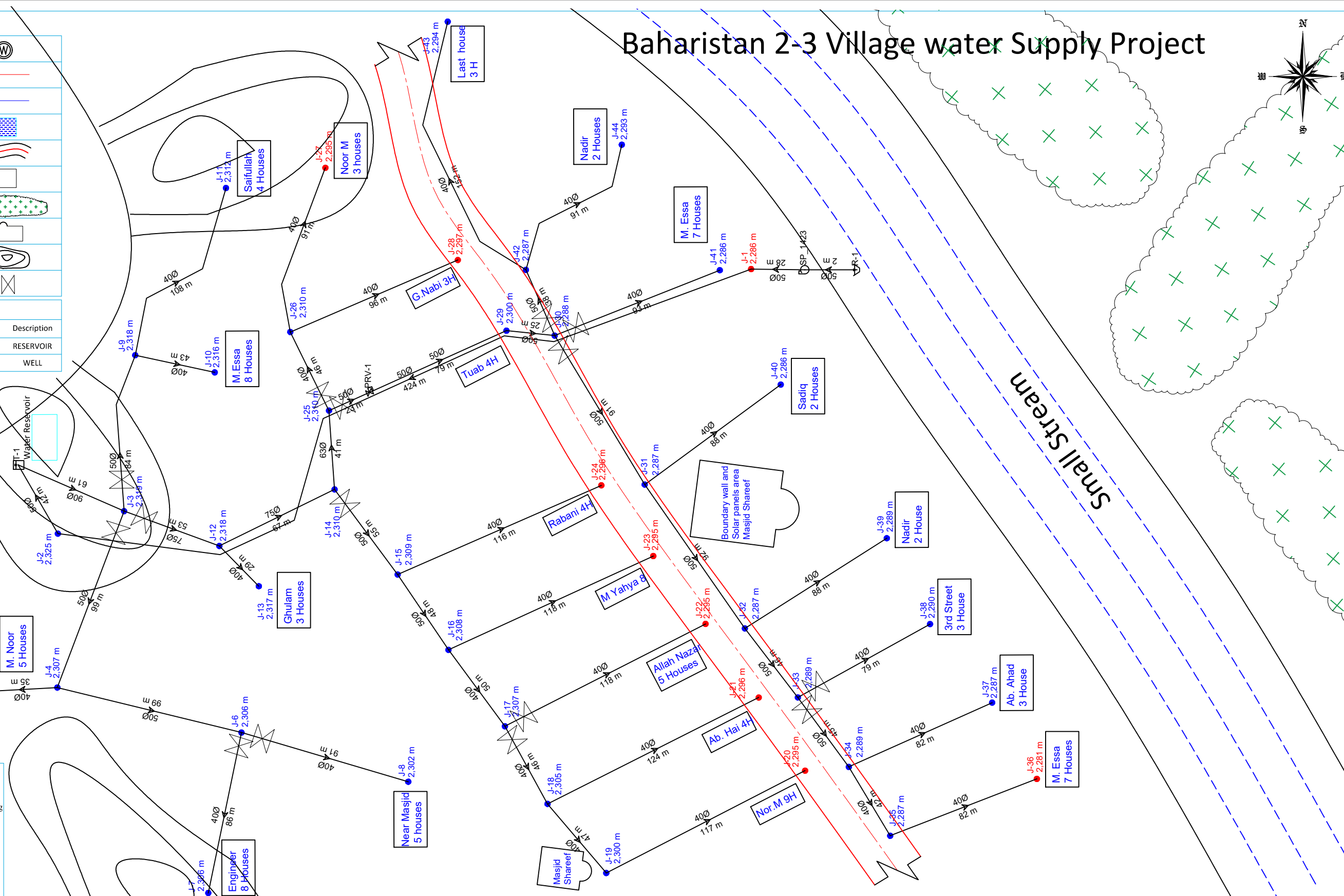
Proposed Well	
Main line	
Distribution Line	
Reservoir Area	
Tertiary Road	
Village houses	
Agricultural Land	
Mosque	
Hill	
Control Valve	

Point Table				
Point #	Elevation	Latitude	Longitude	Description
1	2324	N 3824081	E 709763	RESERVOIR
2	2286	N 3823722	E 709894	WELL

Note:
 Type of soil :#3 to #5
 Population : 1838
 House Number: 105 Houses , 2 Mosque,
 Static water level :8m
 Dynamic water level:20 m
 Total depth :30m
 Drilling type :Percussion 18".



Baharistan 2-3 Village water Supply Project



IRW

Islamic Relief Worldwide-SIDA
 Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan

Department WASH
 Drawing Title Final Site Plan

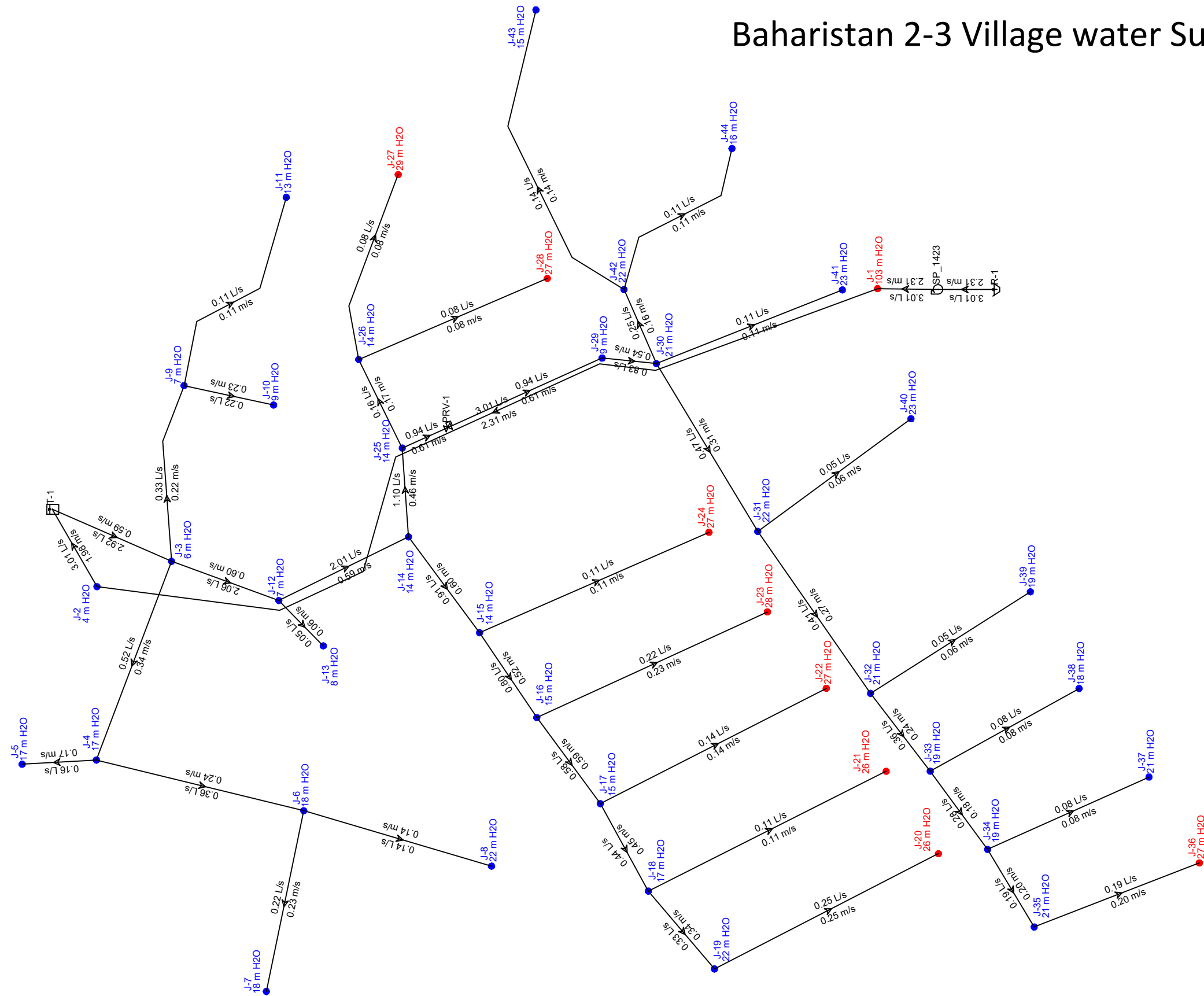
All dimension in (m)
 otherwise stated

Surveyed by Eng. Neman "Sultani"
 Drawing & designed by Abdul Majeed "Khamosh"
 Review & check by Eng. Hikmatullah "Arifzai"
 Approved by Eng. Shah Faisal

SHEET No. 2/18
 30-Jul-2024

PROVINCE Ghor
 VILLAGE Baharistan

SIDA

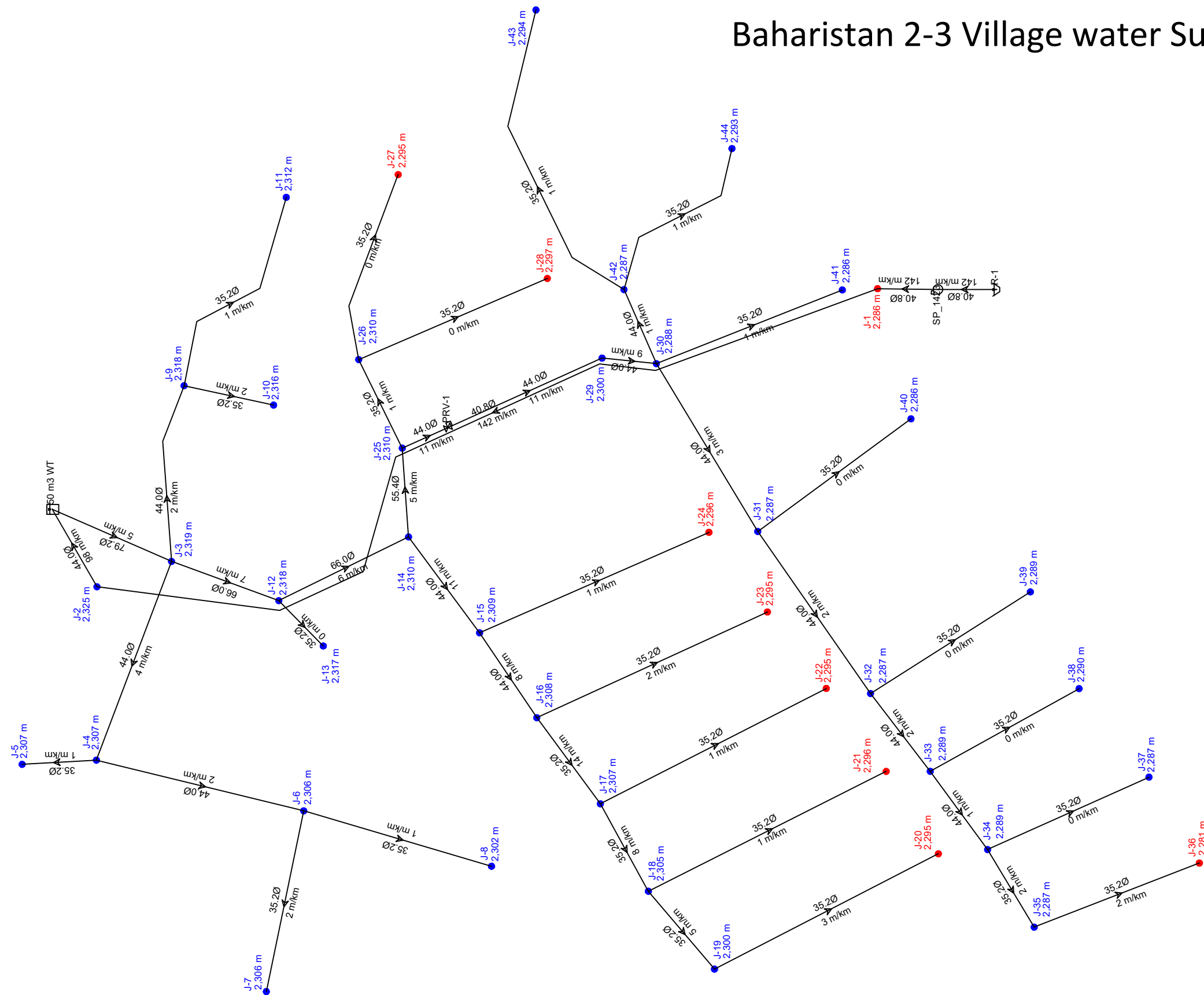

$$JRW$$

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

All dimension in (m)
otherwise stated


30-Jul-2024

SIDA


$$JRW$$

Department	WASH
Drawing Title	Node ID, In Dia in (mm), Headloss Gradient in (m/km), and Elevation in (m)

Dimension in (m)
otherwise stated

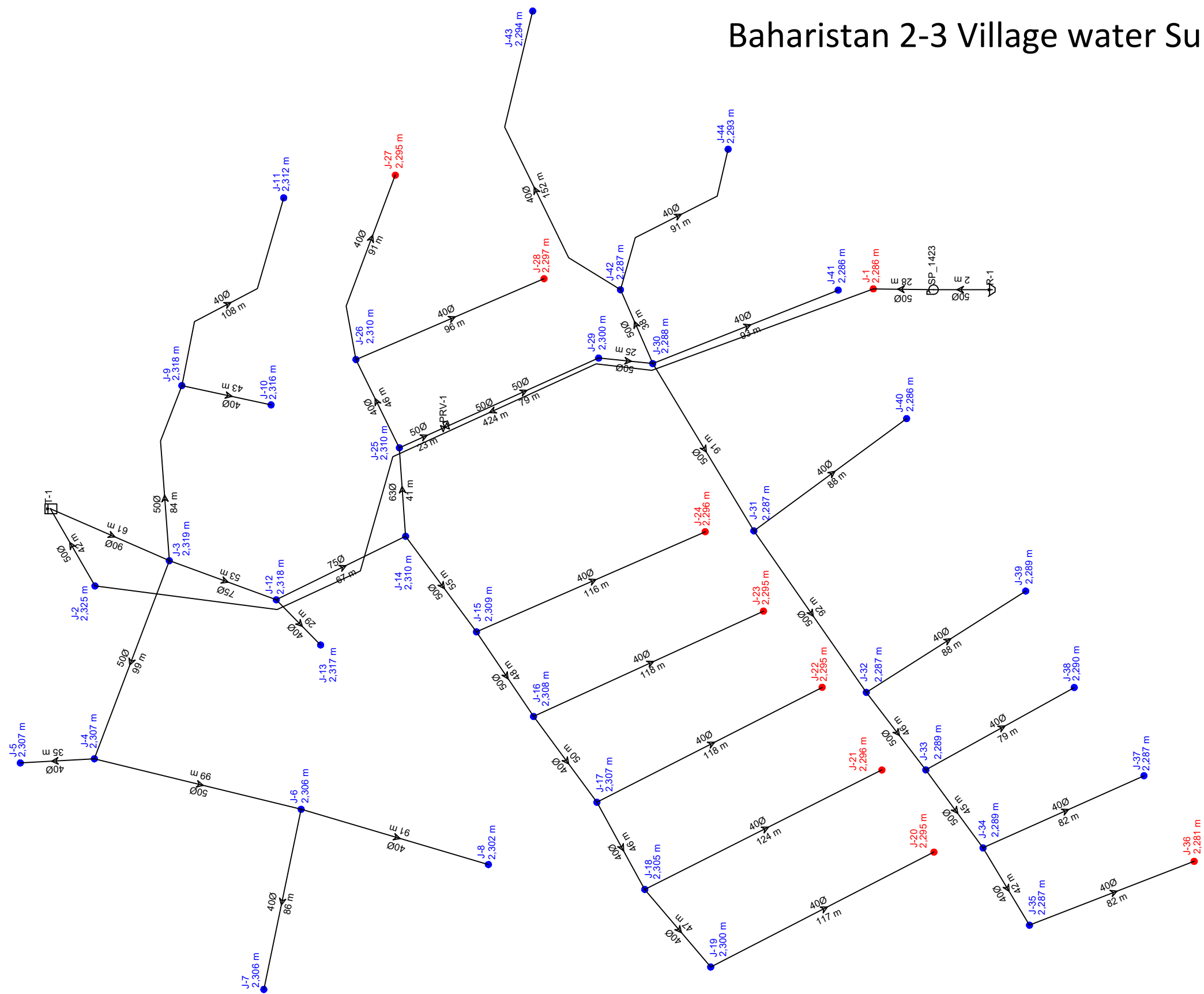
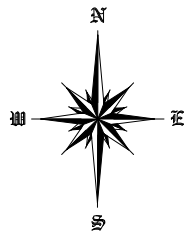
SHEET NO. 

30-Jul-2024

PROVINCE	Ghor
VILLAGE	Baharistan

SIDA

Baharistan 2-3 Village water Supply Project



IRW

Islamic Relief Worldwide-SIDA
Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan

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

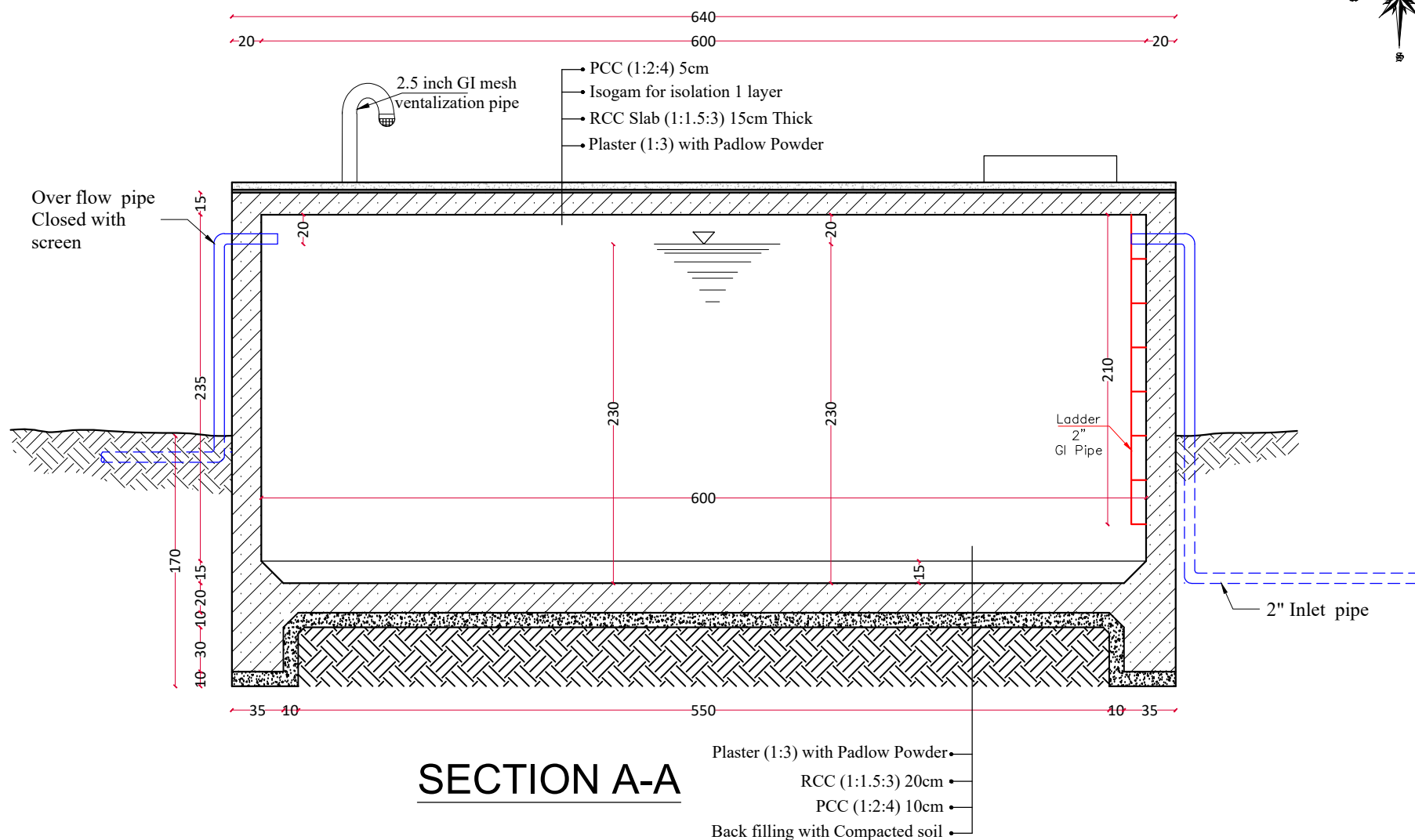
All dimension in (m)
otherwise stated

Surveyed by	Eng. Neman "Sultani"
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M.Hikmatullah "Arifzai"
Approved by	Eng. Shah Faisal

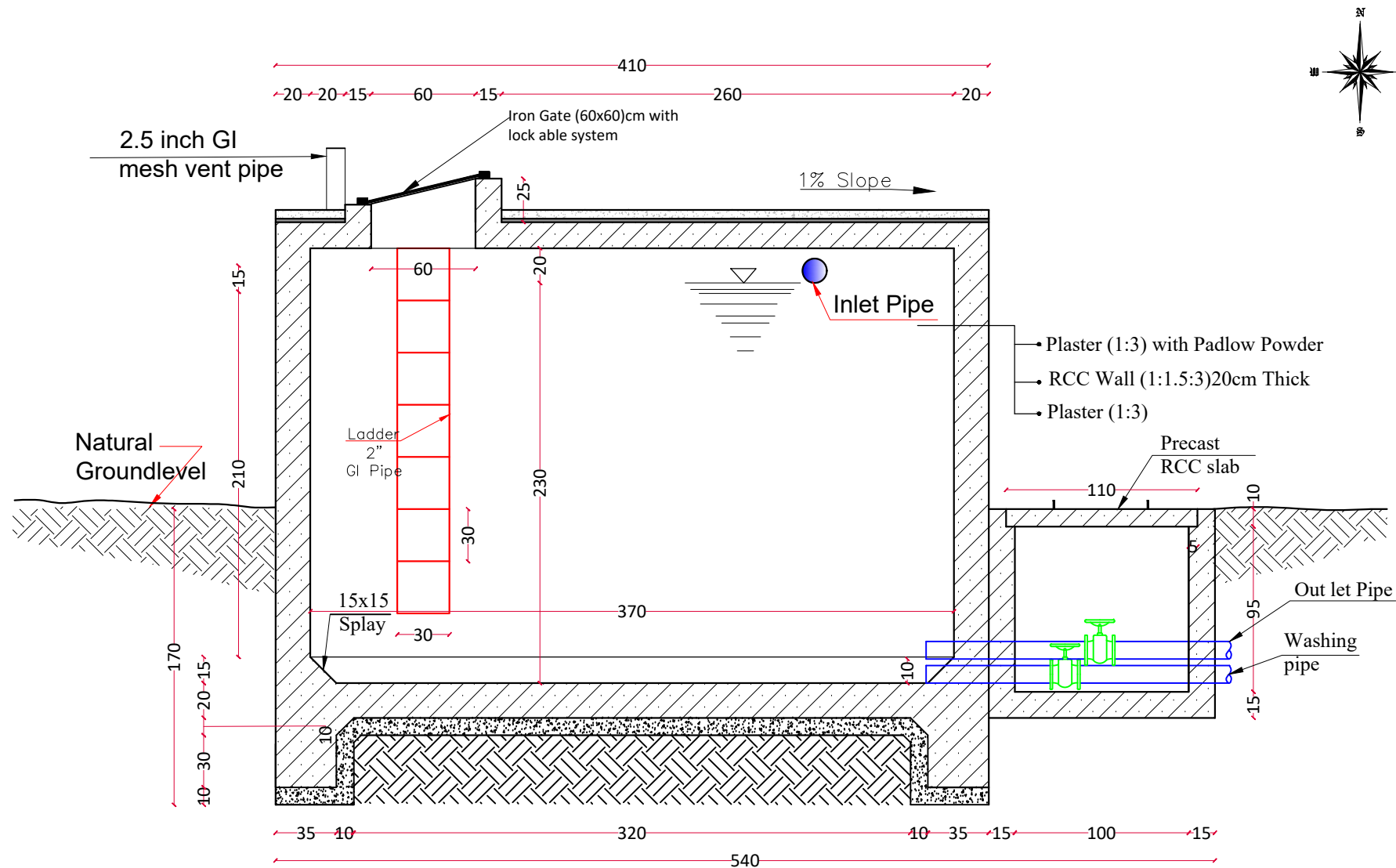
Sheet No. 5/18
30-Jul-2024

PROVINCE	Ghor
VILLAGE	Baharistan

SIDA



- Plaster (1:3) with Padlow Powder ●
- RCC (1:1.5:3) 20cm ●
- PCC (1:2:4) 10cm ●
- Back filling with Compacted soil ●



SECTION B-B



IRW

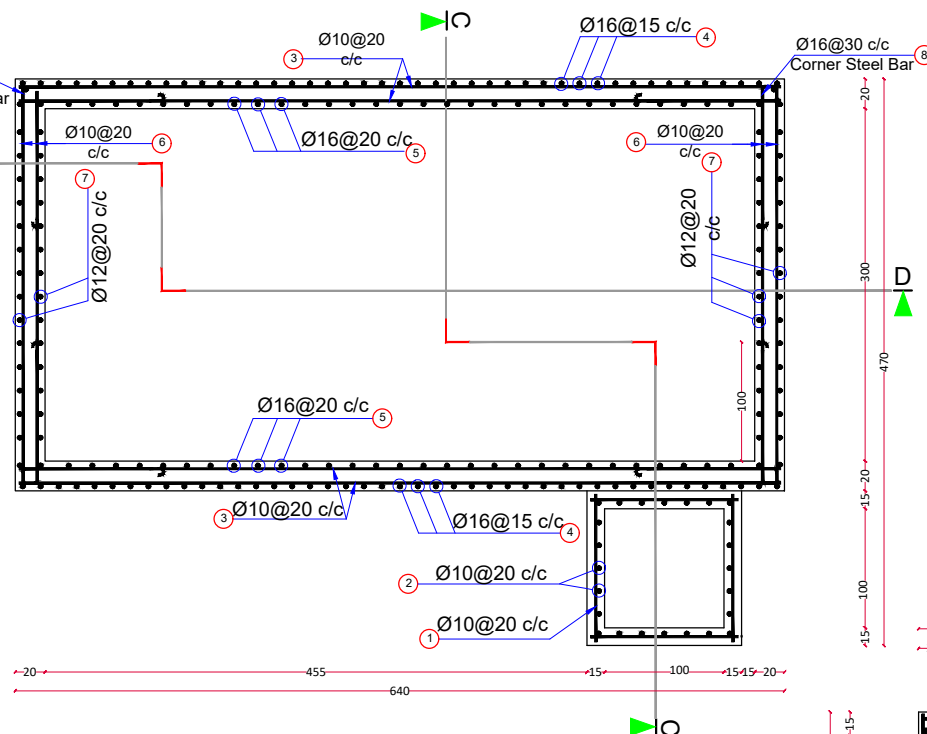
Islamic Relief Worldwide-SIDA Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan		
Department	WASH	All dimension in cm otherwise stated
Drawing Title	Section B-B	

Surveyed by	Eng. Neman "Sultani"
Drawing & designed by	Abdul Majeed Khamosh
Review & check by	Eng. Hikmatullah "Arifzai"
Approved by	Eng. Shah Faisal

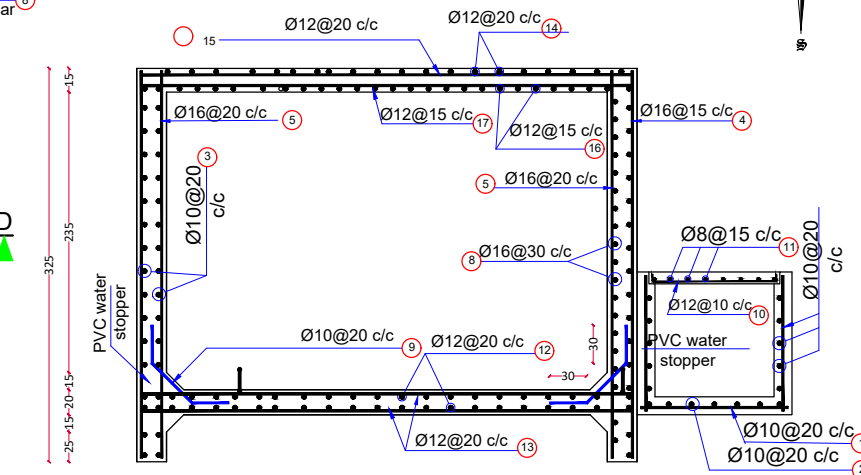
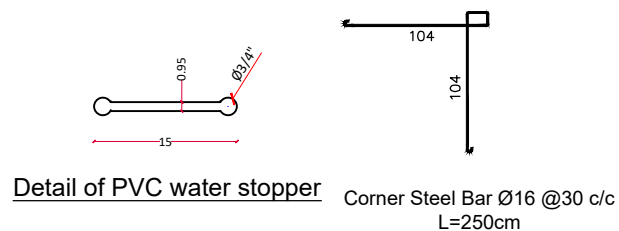
SHEET NO.	8/18
30-July-2024	

PROVINCE	Ghor
VILLAGE	Baharistan 2-3

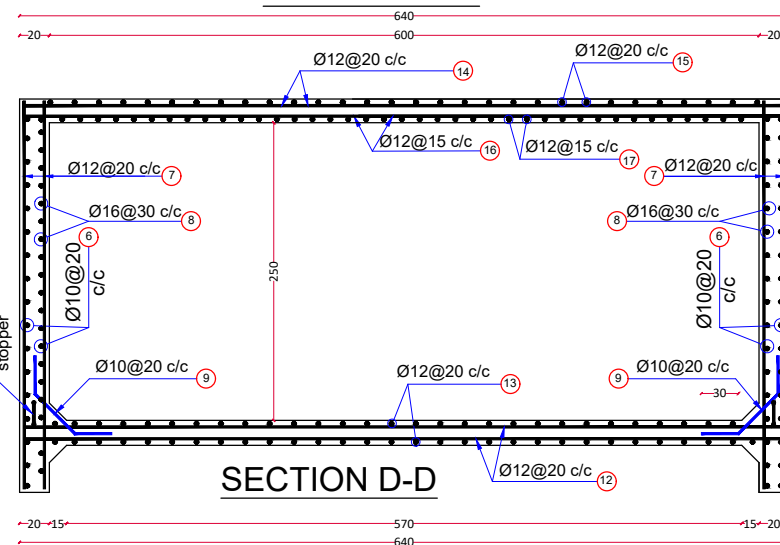
**SIDA
Project**



REINFORCEMENT PLAN



SECTION C-C



SECTION D-D

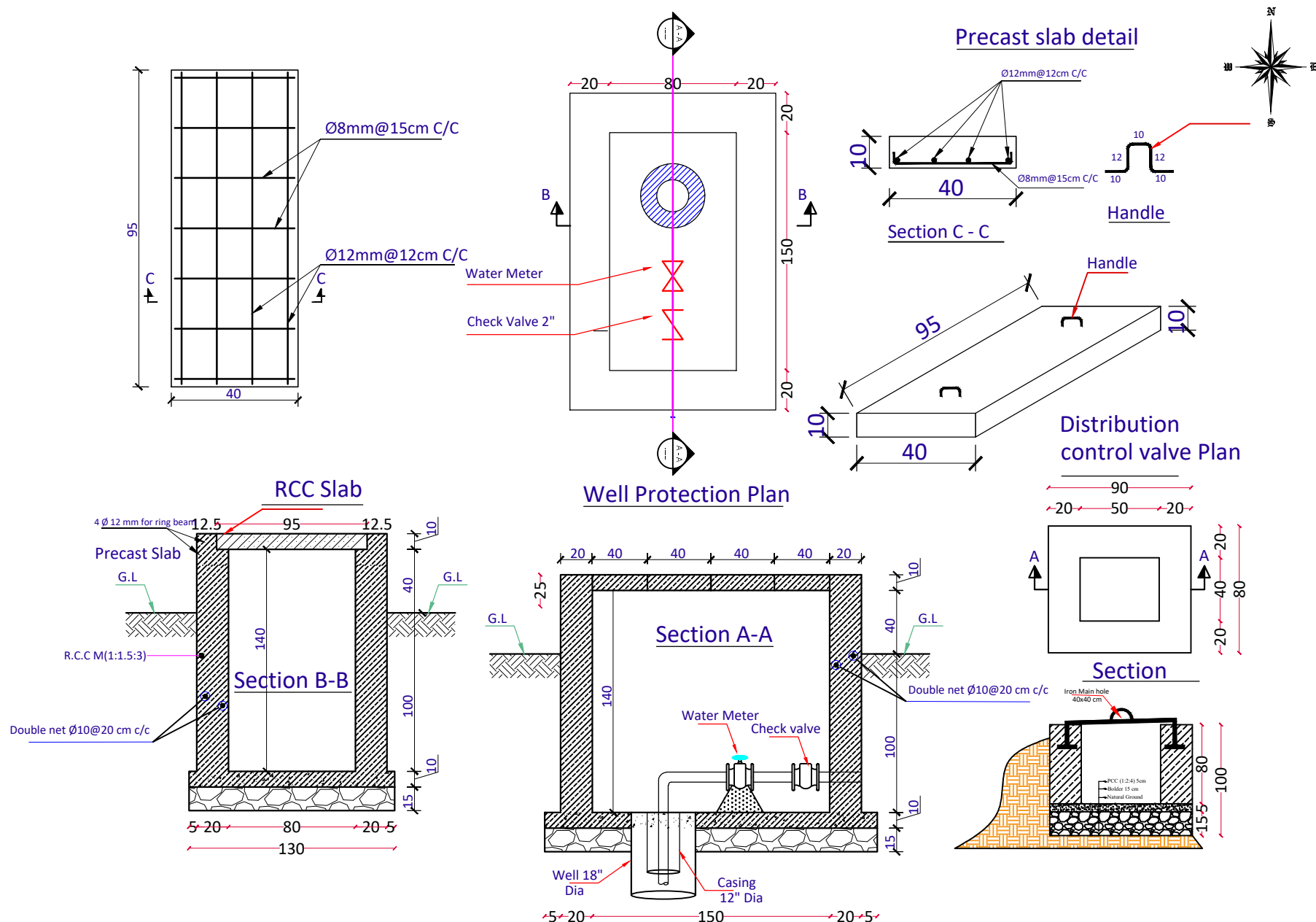


IRW

Islamic Relief Worldwide-SIDA Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan		
Department	WASH	All dimension in cm otherwise stated
Drawing Title	Reservoir section and steel bar detail	

Surveyed by	Eng. Neman "Sultani"
Drawing & designed by	Abdul Majeed Khamosh
Review & check by	Eng. Hikmatullah "Arifzai"
Approved by	Eng. Shah Faisal

SHEET NO.	<div>9 18</div>	PROVINCE	Ghor	SIDA Project
		VILLAGE	Baharistan 2-3	
30-July-2024				



IRW

Islamic Relief Worldwide-SIDA Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan	
Department	WASH
Drawing Title	Well and Gate valve protection
All dimension in cm otherwise stated	

Surveyed by	Eng. Neman "Sultani"
Drawing & designed by	Abdul Majeed Khamosh
Review & check by	Eng. Hikmatullah "Arifzai"
Approved by	Eng. Shah Faisal

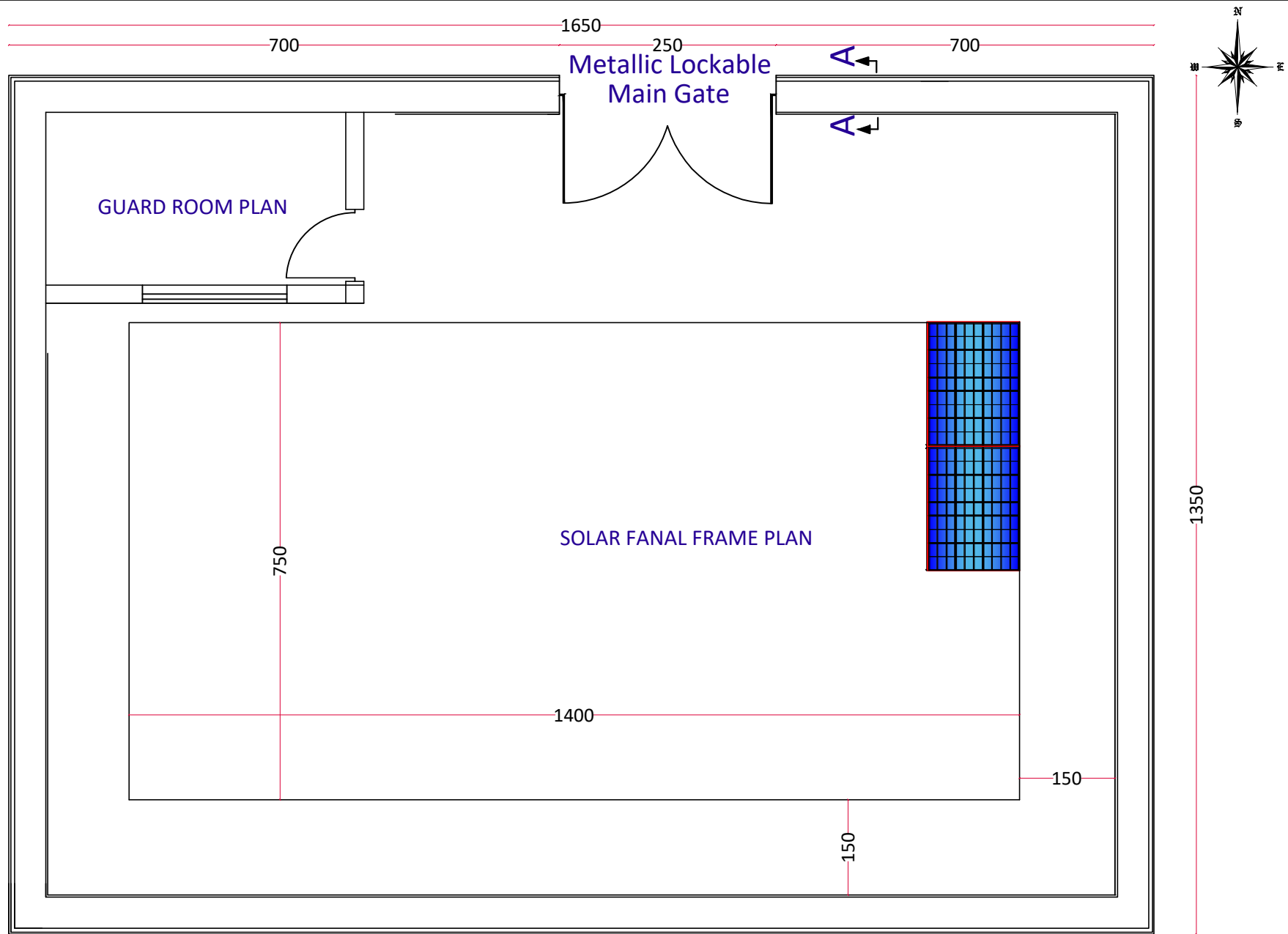
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30-July-2024	

PROVINCE	Ghor
VILLAGE	Baharistan 2-3

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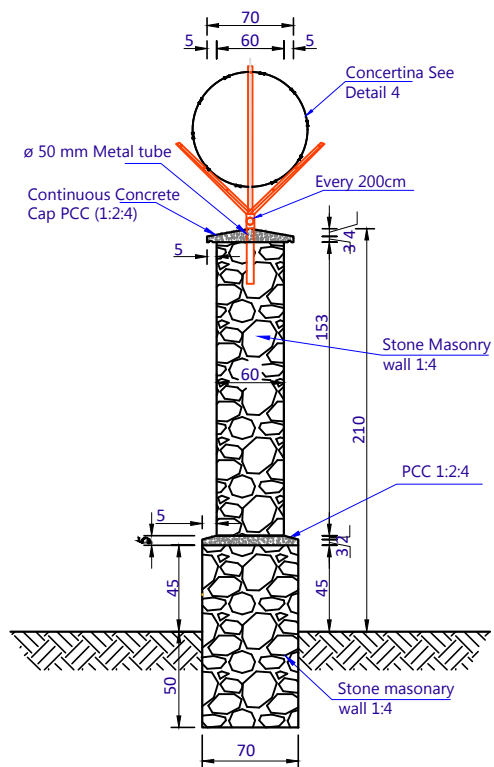
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Section C-C

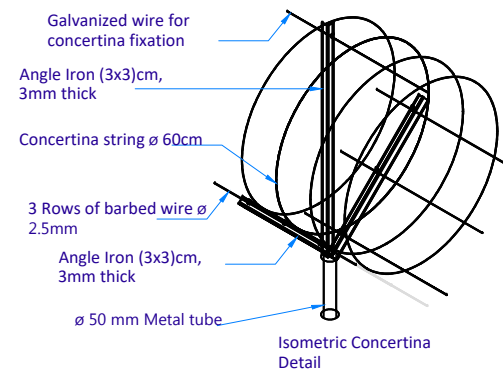
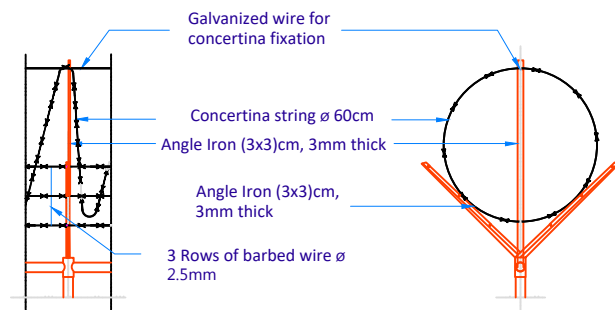
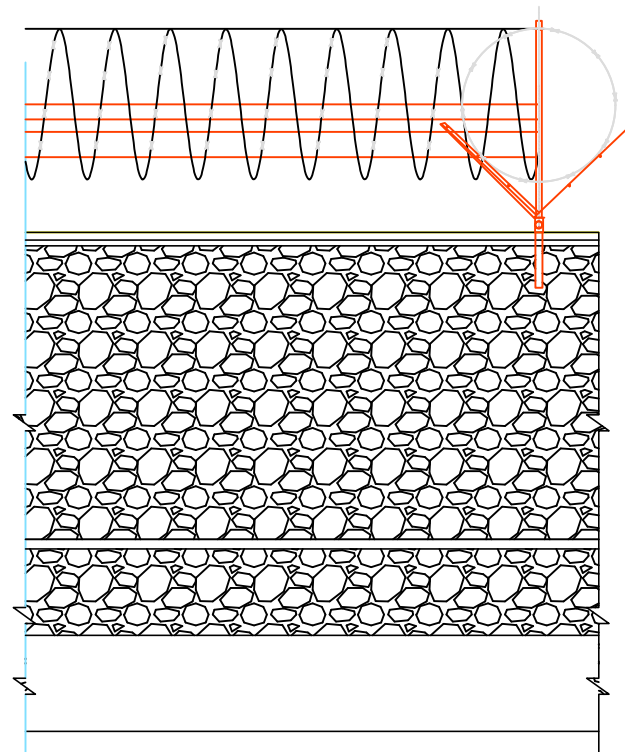


IRW

Islamic Relief Worldwide-SIDA Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan			Surveyed by	Eng. Neman "Sultani"	SHEET NO. 12 18	PROVINCE	Ghor	SIDA Project
Department	WASH	All dimension in cm otherwise stated	Drawing & designed by	Abdul Majeed Khamosh				
Drawing Title	Boundary wall and Guard room plan		Review & check by	Eng. Hikmatullah "Arifzai"				
			Approved by	Eng. Shah Faisal				
			30-July-2024		VILLAGE	Baharistan 2-3		



Section A-A



IRW

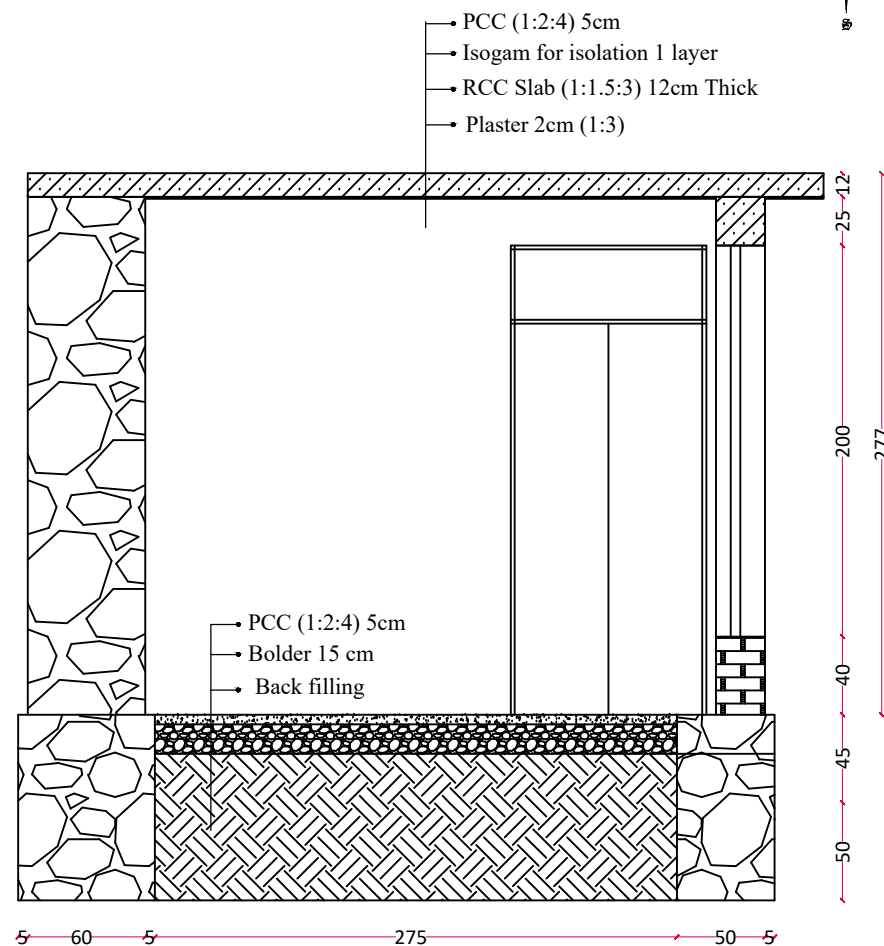
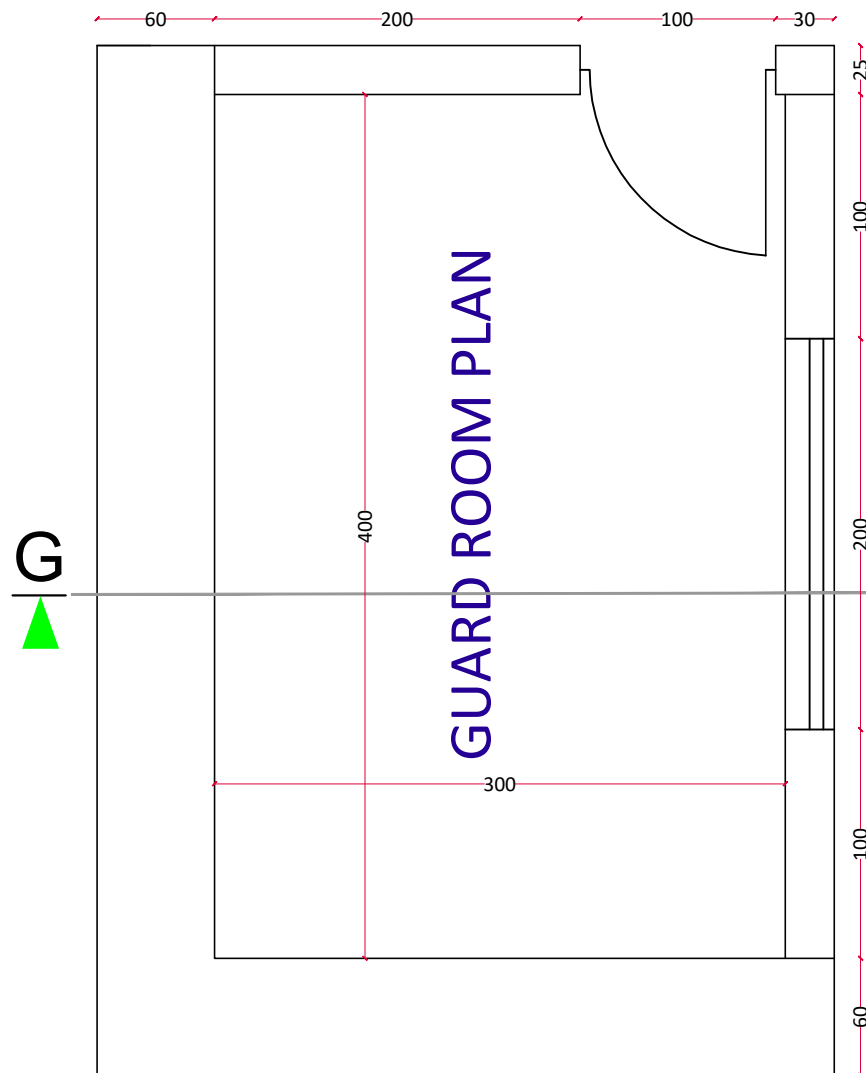
Islamic Relief Worldwide-SIDA Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan		
Department	WASH	All dimension in cm otherwise stated
Drawing Title	boundary section and barbed wire plan	

Surveyed by	Eng. Neman "Sultani"
Drawing & designed by	Abdul Majeed Khamosh
Review & check by	Eng. Hikmatullah "Arifzai"
Approved by	Eng. Shah Faisal

SHEET NO.	13/18
30-July-2024	

PROVINCE	Ghor
VILLAGE	Baharistan 2-3

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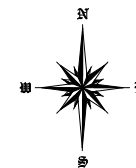
Islamic Relief Worldwide-SIDA Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan		
Department	WASH	All dimension in cm otherwise stated
Drawing Title	Guard Room Plan	

Surveyed by	Eng. Neman "Sultani"
Drawing & designed by	Abdul Majeed Khamosh
Review & check by	Eng. Hikmatullah "Arifzai"
Approved by	Eng. Shah Faisal

SHEET NO.	14 18	PROVINCE	Ghor
		VILLAGE	Baharistan 2-3

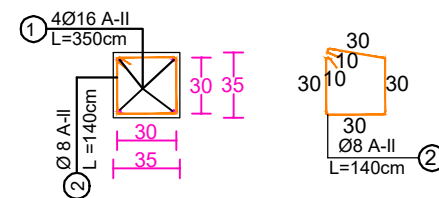
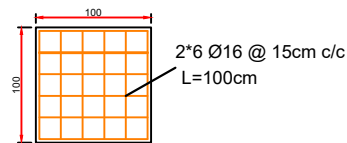
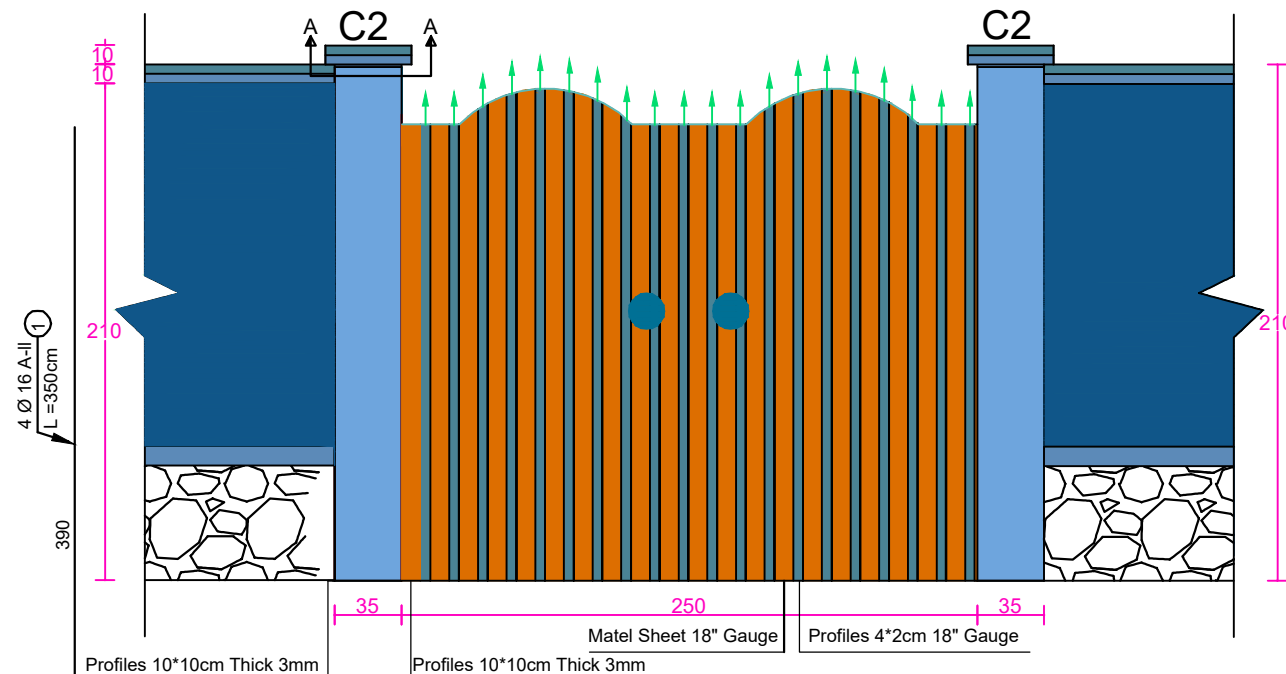
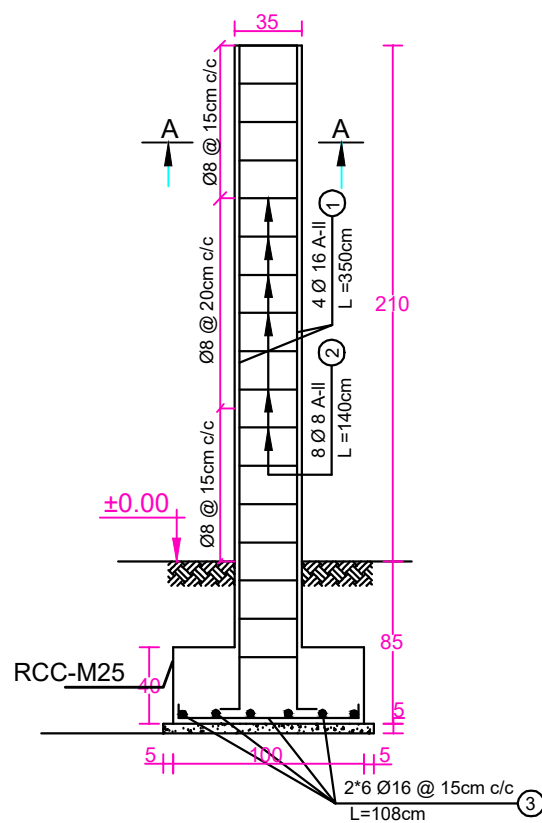
30-July-2024

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Project



Main Gate Front View

Column - C2 No=3



IRW

Islamic Relief Worldwide-SIDA
Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan

Department: WASH
Drawing Title: Metallic Gate front view , Section and detail

All dimension in cm
otherwise stated

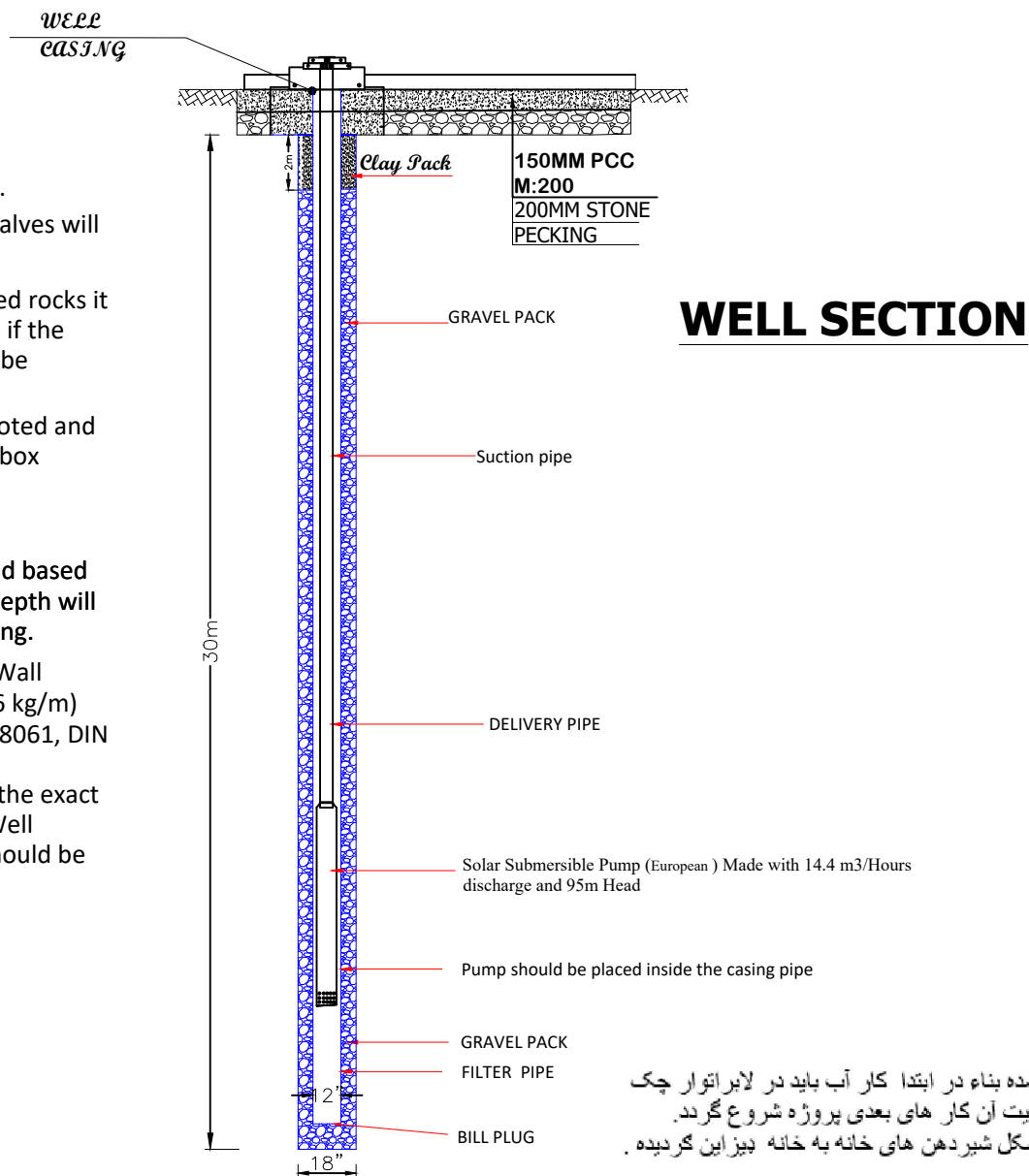
Surveyed by: Eng. Neman "Sultani"
Drawing & designed by: Abdul Majeed Khamosh
Review & check by: Eng. Hikmatullah "Arifzai"
Approved by: Eng. Shah Faisal

SHEET NO. 15/18
30-July-2024

PROVINCE: Ghor
VILLAGE: Baharistan 2-3

SIDA Project

- 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=(12") inches, Class C, Min Wall Thickness (12.1) mm, Min weight (16.6 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

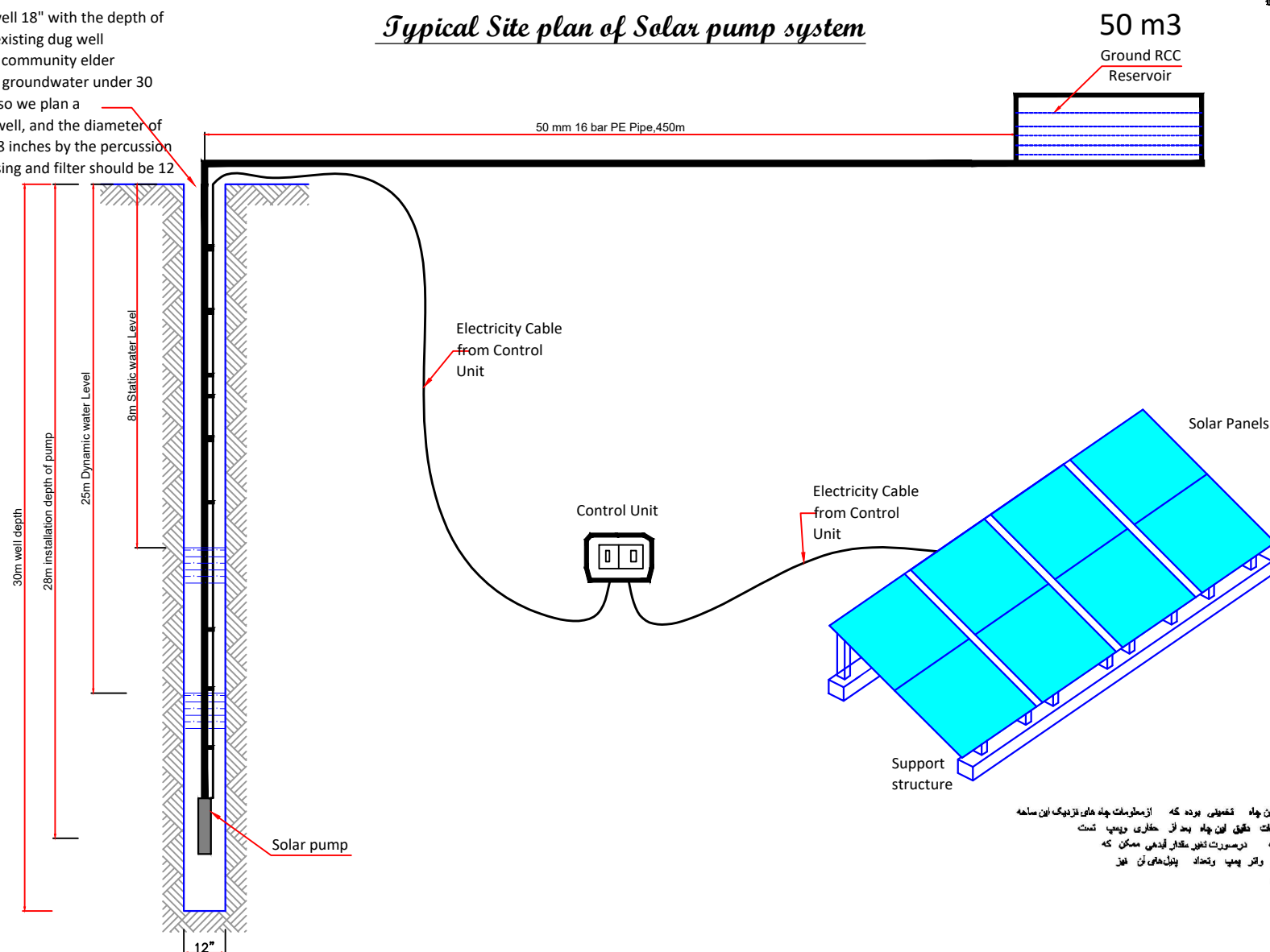


نوت:
از اینکه آب چاه در لایر اتوار تست نشده بناء در ابتدا کار آب باید در لایر اتوار چک شود و بعد از حصول اطمینان از کیفیت آن کار های بعدی پروژه شروع گردد.
همچنان نظر به مشخصات شبکه به شکل شیر دهن های خانه به خانه پیز این گر دیده



Typical Site plan of Solar pump system

New proposed well 18" with the depth of 30m as per the existing dug well observation and community elder information, the groundwater under 30 meters has salt, so we plan a 30-meter-deep well, and the diameter of digging will be 18 inches by the percussion machine; the casing and filter should be 12 inches. Class C



IRW

Islamic Relief Worldwide-SIDA
Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan
Department WASH
Drawing Title TDH
All dimension in cm
otherwise stated

Surveyed by Eng. Neman "Sultani"
Drawing & designed by Abdul Majeed Khamosh
Review & check by Eng. Hikmatullah "Arifzai"
Approved by Eng. Shah Faisal

SHEET
NO. 17/18
30-July-2024

PROVINCE Ghor
VILLAGE Qudosi Sufila

SIDA
Project

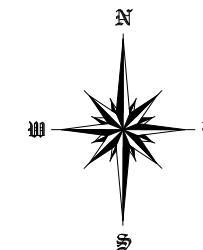
Baharistan Village water Supply Project

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

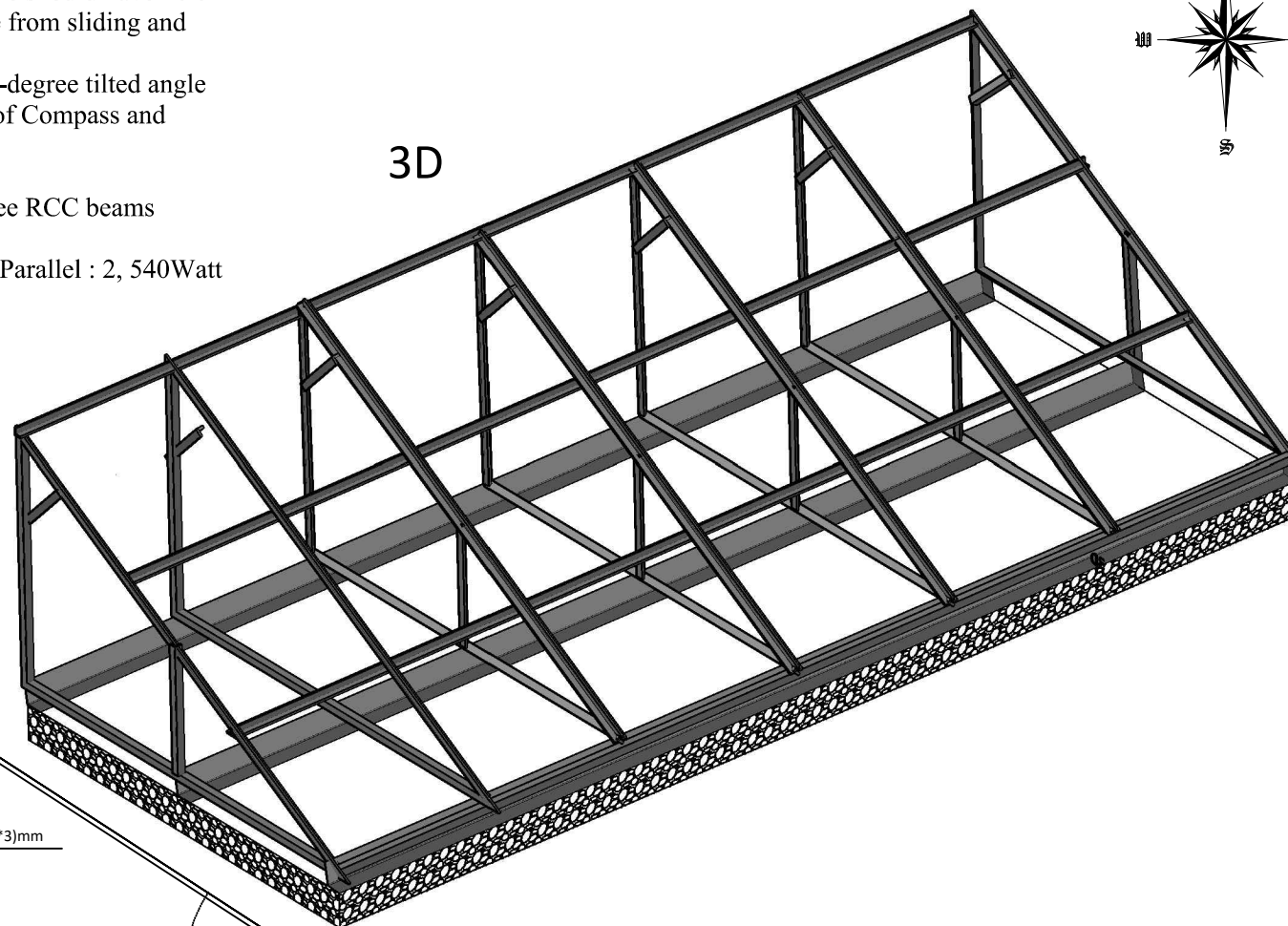
4- the solar panel's frame should have a 33-degree tilted angle with the surface of the yard as instruction of Compass and Groundfos software's and product.

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

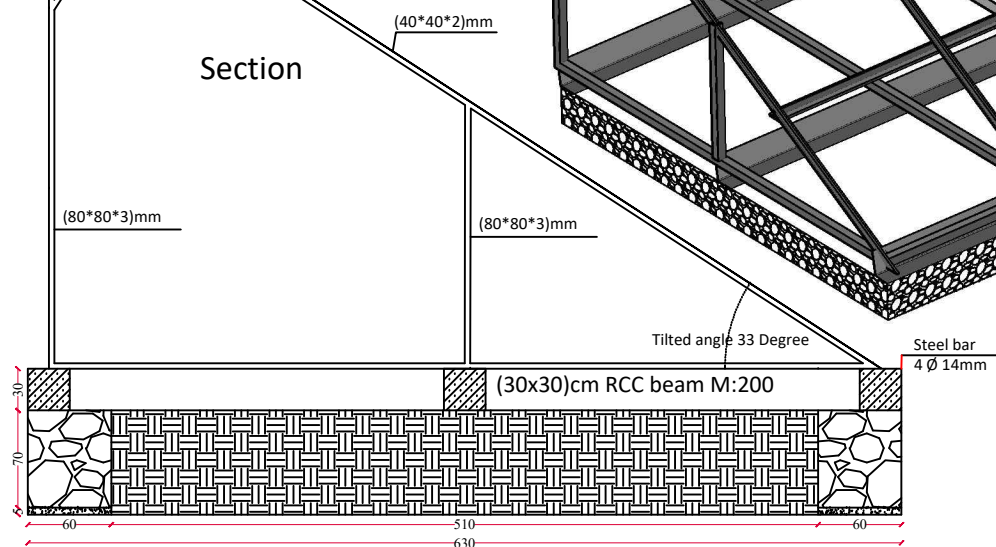
6- Number of solar modules in series: 9 in Parallel : 2, 540Watt
Or 18, in parallel: 2, 270 Watt,



3D



Section



IRW

Islamic Relief Worldwide-SIDA
Food Security, WASH, and protection support to vulnerable families in Ghor- Afghanistan

Department WASH
Drawing Title Solar Frame Plan And Section

All dimension in cm
otherwise stated

Surveyed by Eng. Neman "Sultani"
Drawing & designed by Abdul Majeed Khamosh
Review & check by Eng. Hikmatullah "Arifzai"
Approved by Eng. Shah Faisal

SHEET NO. 18/18
30-July-2024

PROVINCE Ghor
VILLAGE Baharistan 2-3

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Project