

APRIL, 22, 2024

## DARGIMIRKALAN PIPE SCHEME QARABAGH DISTRICT, KABUL, AFGHANISTAN



Coordinates	
Latitude	Longitude
34.8534100	69.133800

DONOR :

UNITED NATION  
HIGH COMMISSIONER  
REFUGEE

PARTNER :



AFGHAN  
PEACE  
BUILDERS

LET PEACE PREVAIL

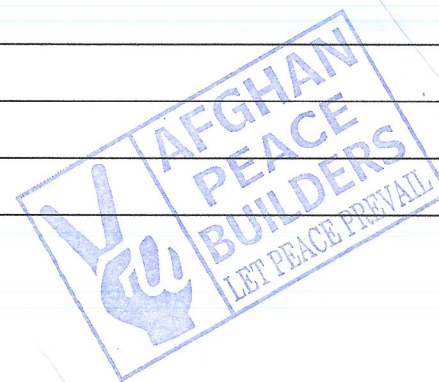
AFGHAN PEACE BUILDER  
HUMANITARIAN ORGANIZATION

PREPARED :

**APBHO**  
ENGINEERING DEPARTMENT

**SHEET INDEX**  
**DARGIMIRKALAN PIPE SCHEME**  
**QARABAGH DISTRICT , KABUL, AFGHANISTAN**

SHEET No.	DRAWING TITLES	REMARKS
1	SHEET INDEX	
2	GENERAL SITE PLAN	
3	NODE,LENGTH,IN DIA& ELEVATION	
4	NODE,LENGTH,OUTER DIA& ELEVATION	
5	NODE,FLOW,VELOCITY & PRESSURE	
6	ELEVATED WATER TANK ELEVATION	
7	ELEVATED WATER TANK STRUCTURAL DETAILS	
8	ELEVATED WATER TANK STRUCTURAL DETAILS	
9	SOLAR STAND DETAILS	
10	WELL PROTECTION DETAILS	
11	GATE VALVE BOX DETAILS	
12	STAND TAP DETAILS	



Date	22 April 2024
No.	
Revision/ Issue	
Date	

PROJECT NAME:  
DARGIMIRKALAN PIPE SCHEME  
LOCATION:  
QARABAGH DISTRICT, KABUL, AFGHANISTAN

At. Designed by	APBHO TECHNICAL TEAM
St. Designed by	APBHO TECHNICAL TEAM
Drawn by	APBHO TECHNICAL TEAM
Checked by	APBHO TECHNICAL TEAM
Approved by	APBHO TECHNICAL TEAM

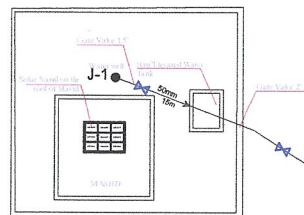
Drawing Title	Sheet No.
Drawing No.	001/012
Scale	

Date	22 April 2024
No.	Revision/ Issue
	Date

PROJECT NAME:  
GARDAMIR ALAN PIPE SCHEME  
LOCATION:  
GARDAMIR DISTRICT, KABUL, AFGHANISTAN

Ar. Designed by: APBHO TECHNICAL TEAM  
St. Designed by: APBHO TECHNICAL TEAM  
Drawn by: APBHO TECHNICAL TEAM  
Checked by: APBHO TECHNICAL TEAM  
Approved by: APBHO TECHNICAL TEAM

Drawing Title: GENERAL SITE PLAN  
Drawing No: 002/011  
Scale:

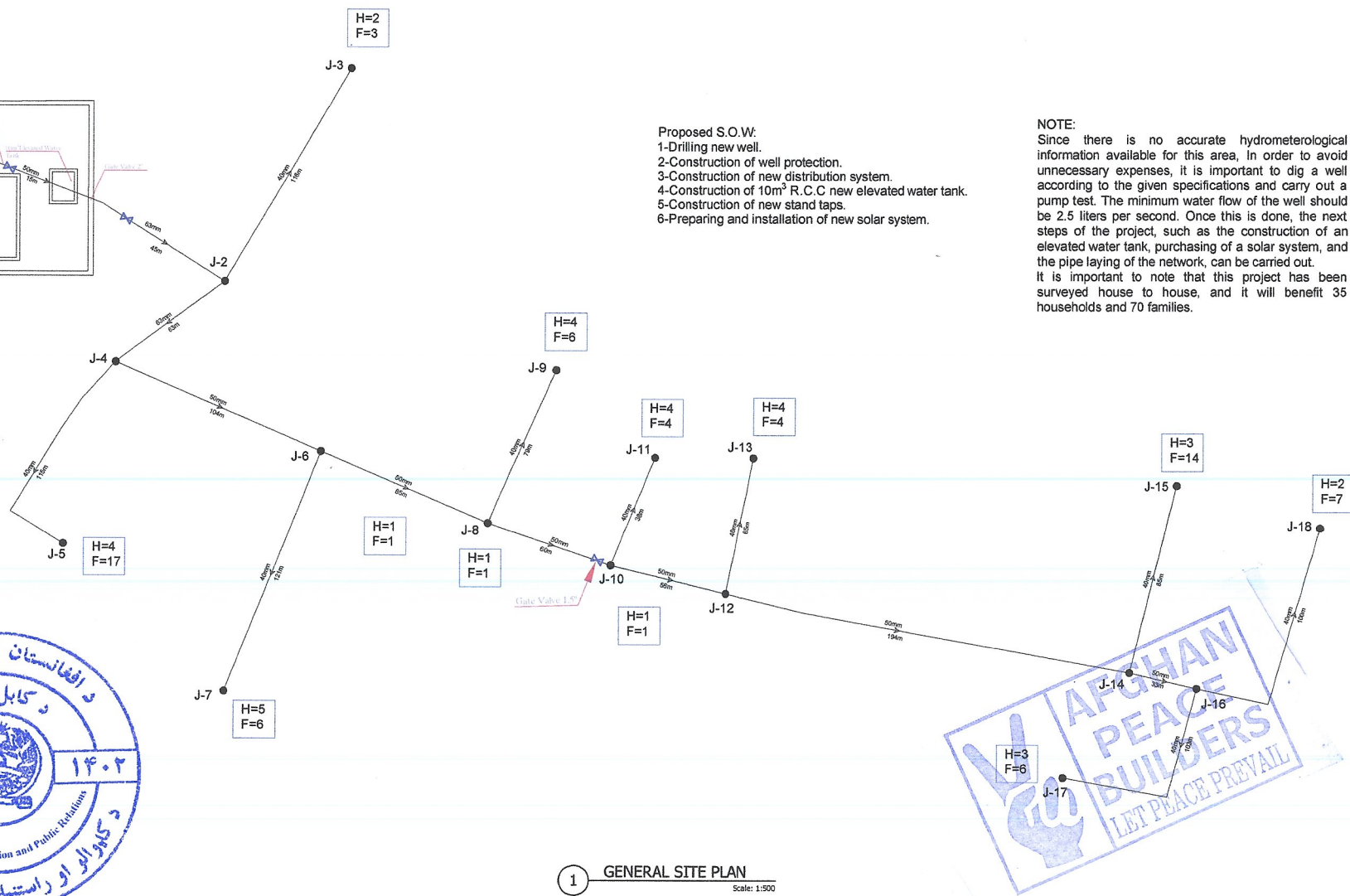


#### Proposed S.O.W:

- 1-Drilling new well.
- 2-Construction of well protection.
- 3-Construction of new distribution system.
- 4-Construction of 10m<sup>3</sup> R.C.C new elevated water tank.
- 5-Construction of new stand taps.
- 6-Preparing and installation of new solar system.

#### NOTE:

Since there is no accurate hydrometeorological information available for this area, In order to avoid unnecessary expenses, it is important to dig a well according to the given specifications and carry out a pump test. The minimum water flow of the well should be 2.5 liters per second. Once this is done, the next steps of the project, such as the construction of an elevated water tank, purchasing of a solar system, and the pipe laying of the network, can be carried out. It is important to note that this project has been surveyed house to house, and it will benefit 35 households and 70 families.



1 GENERAL SITE PLAN  
Scale: 1:500





Scale: 1:500



Date		22 April 2015
No.	Revision/	Date

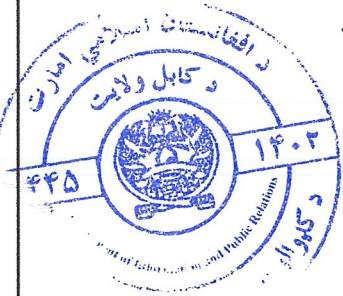
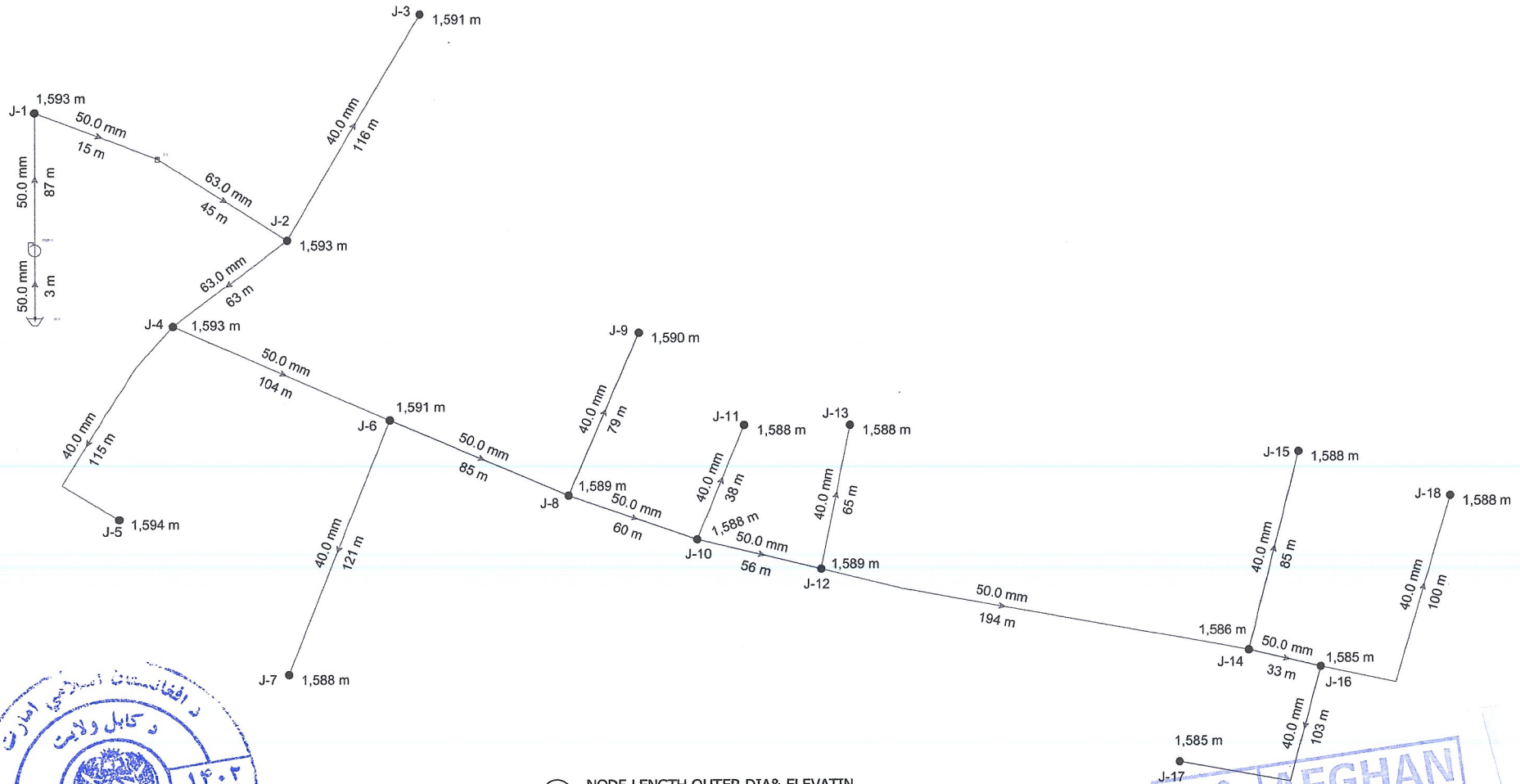
PROJECT NAME:  
DARGIMUKALAN PIPE SCHEME

LOCATION:  
QARABAGH DISTRICT, KABUL, AFGHANISTAN

Ar. Designed by:	APBHO TECHNICAL TEAM
Sl. Designed by:	APBHO TECHNICAL TEAM
Drawn by:	APBHO TECHNICAL TEAM
Checked by:	APBHO TECHNICAL TEAM
Approved by:	APBHO TECHNICAL TEAM

Drawing Title:	NOSE LENGTH IN CASE ELEVATION	Sheet No:
Drawing No:		003/01
Scale:		





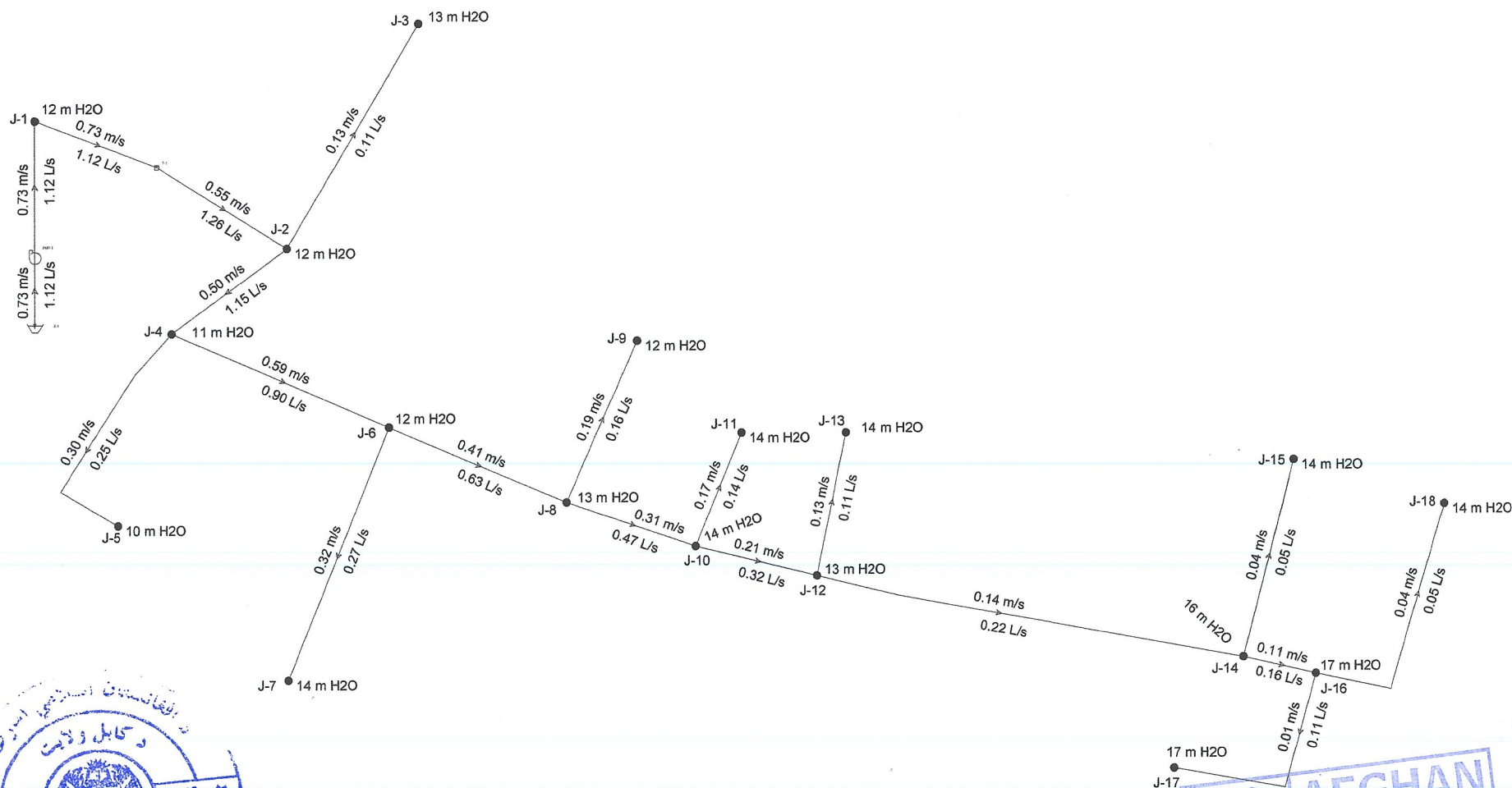
Date	12 April 2024
Issued by	
Reviewed by	
Approved by	
PROJECT NAME	DAGOMIRALAN PIPE SCHEME
LOCATION	DAGOMIRALAN DISTRICT KABUL, AFGHANISTAN
Drawn by	APBHO TECHNICAL TEAM
Checked by	APBHO TECHNICAL TEAM
Approved by	APBHO TECHNICAL TEAM
Drawing Title	DATE ELEVATION
Sheet No.	004/012

Date	22 April 2024
No.	Revisions/ Issue
	Date

PROJECT NAME:  
DAGHRIKALAN PIPE SCHEME  
LOCATION:  
GAMASIGH DISTRICT, KABUL, AFGHANISTAN

As Designed by: APBHO TECHNICAL TEAM  
Sd. Designed by: APBHO TECHNICAL TEAM  
Drawn by: APBHO TECHNICAL TEAM  
Checked by: APBHO TECHNICAL TEAM  
Approved by: APBHO TECHNICAL TEAM

Drawing Title: Sheet No: 005/012  
Drawing No: Scale:



1 Node, Flow, Velocity & Pressure

Scale: 1:500



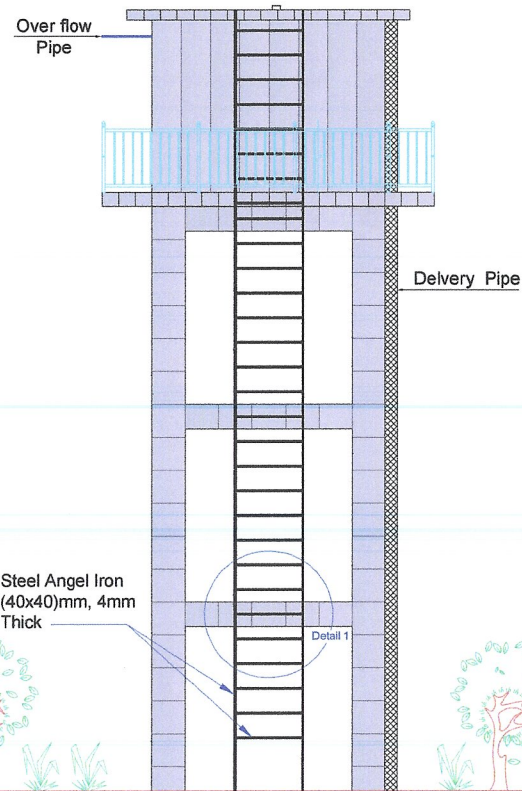
Date	22 April 2024
No.	Revision/ Issue
	Date

PROJECT NAME:  
DARGABALAN PIPE SCHEME

LOCATION:  
DARGABALAN DISTRICT, KABUL, AFGHANISTAN

Ar. Designed by:	APBHO TECHNICAL TEAM
St. Designed by:	APBHO TECHNICAL TEAM
Drawn by:	APBHO TECHNICAL TEAM
Checked by:	APBHO TECHNICAL TEAM
Approved by:	APBHO TECHNICAL TEAM

Drawing Title:	ELEVATED WATER TANK ELEVATION	Sheet No:	008/012
Drawing No:			
Scale:			



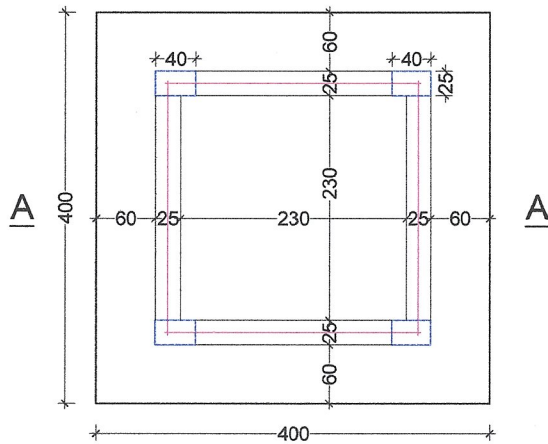
① ELEVATED WATER TANK ELEVATION  
Scale: 1:100

Notes

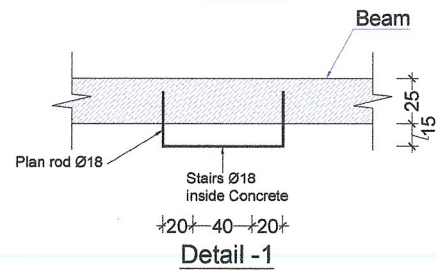
1. All dimension are in cm
2. Mark of concrete 200 kg/cm<sup>2</sup>
3. Delivery and Suction pipe should be protected (Isolation)
4. Assume bearing capacity is 2 kg/cm<sup>2</sup>



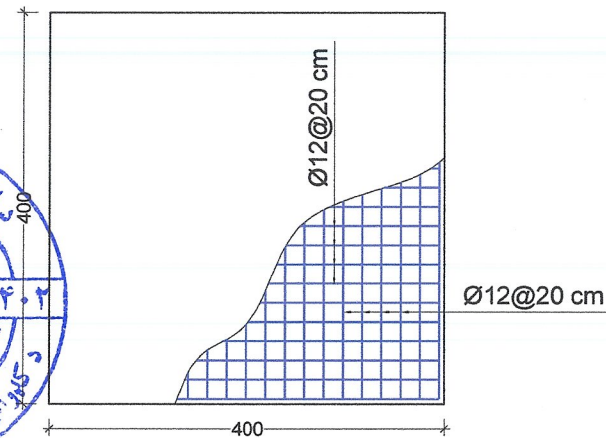




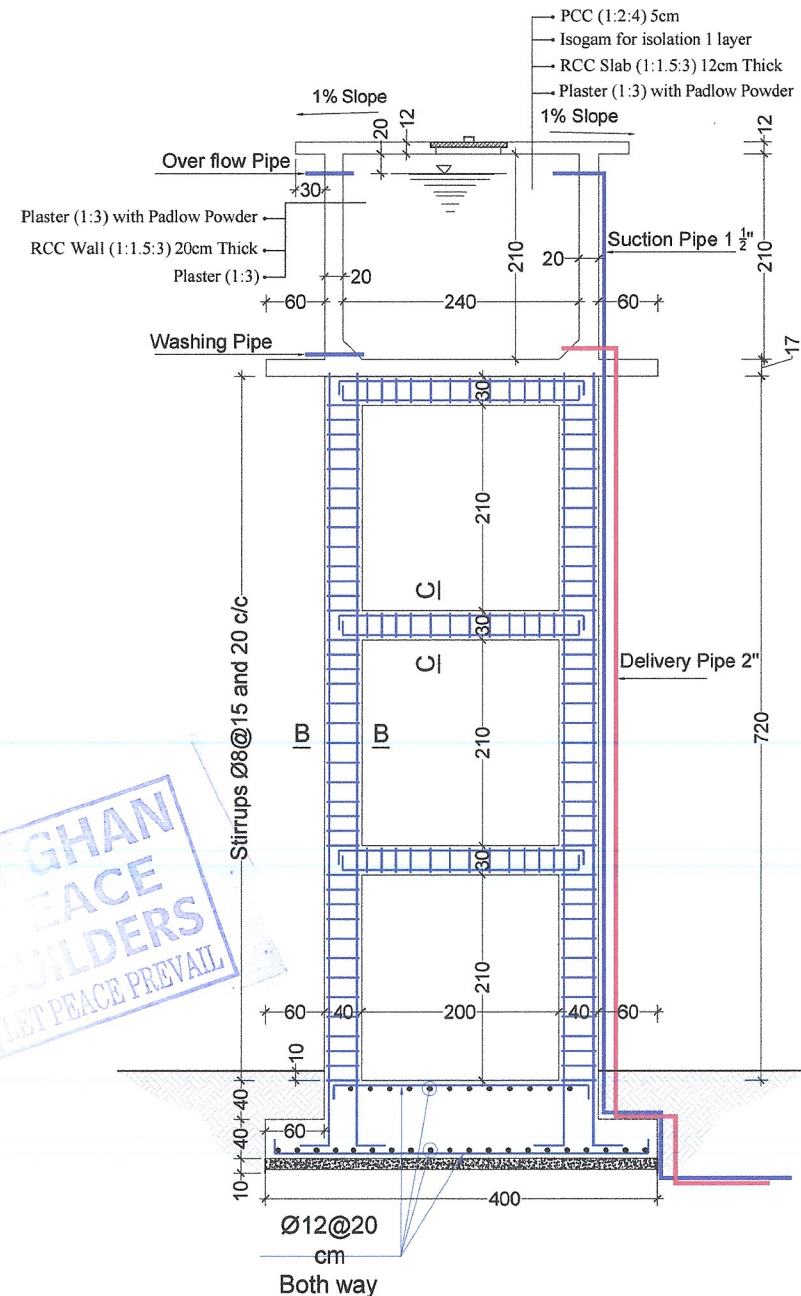
Plan



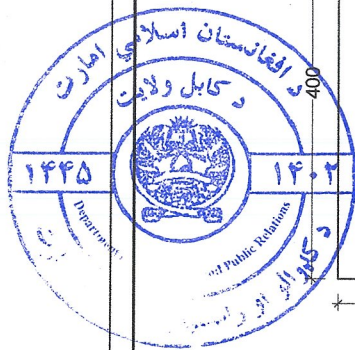
Detail -1



Reinforcement Plan of Footing



Section A-A

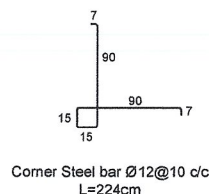
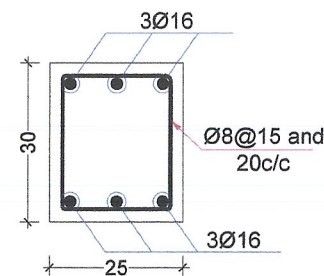
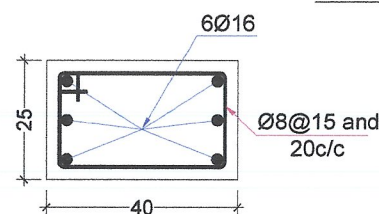
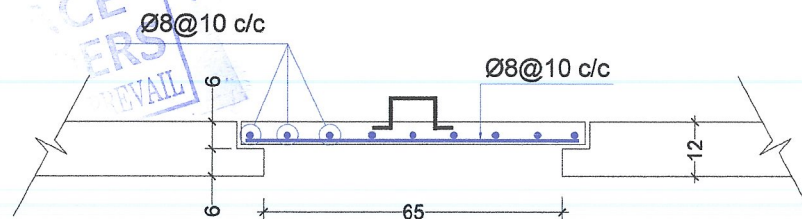
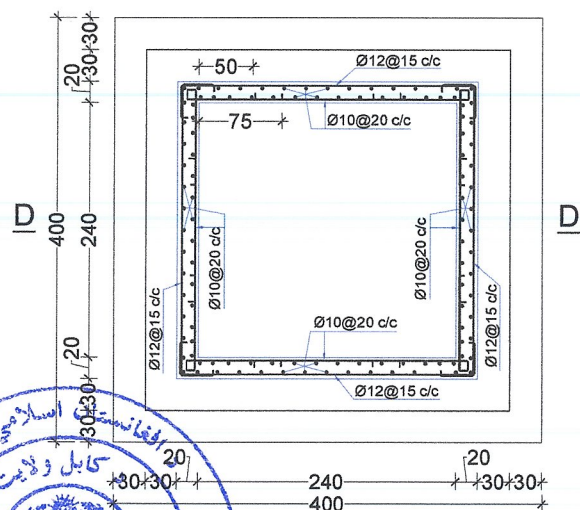
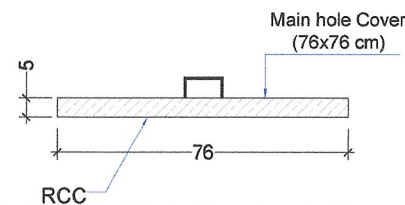
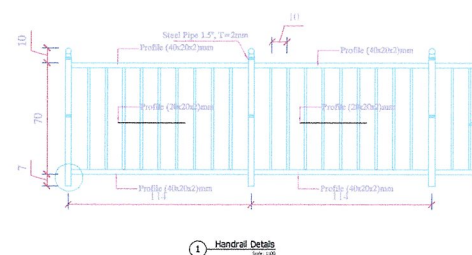
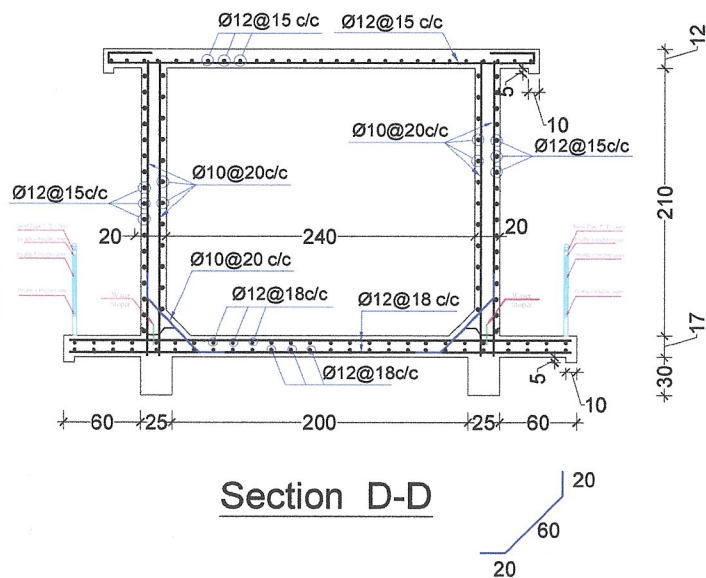


Date	22 April 2024
No.	
Revision/ Issue	
Date	

PROJECT NAME:  
GARDABACH RPE SCHEME  
LOCATION:  
GARDABACH DISTRICT, KABUL AFGHANISTAN

Ar. Designed by	APBHO TECHNICAL TEAM
St. Designed by	APBHO TECHNICAL TEAM
Drawn by	APBHO TECHNICAL TEAM
Checked by	APBHO TECHNICAL TEAM
Approved by	APBHO TECHNICAL TEAM

Drawing Title	ELEVATED WATER TANK STRUCTURE DETAILS	Sheet No.
Drawing No.		007/013
Scale		



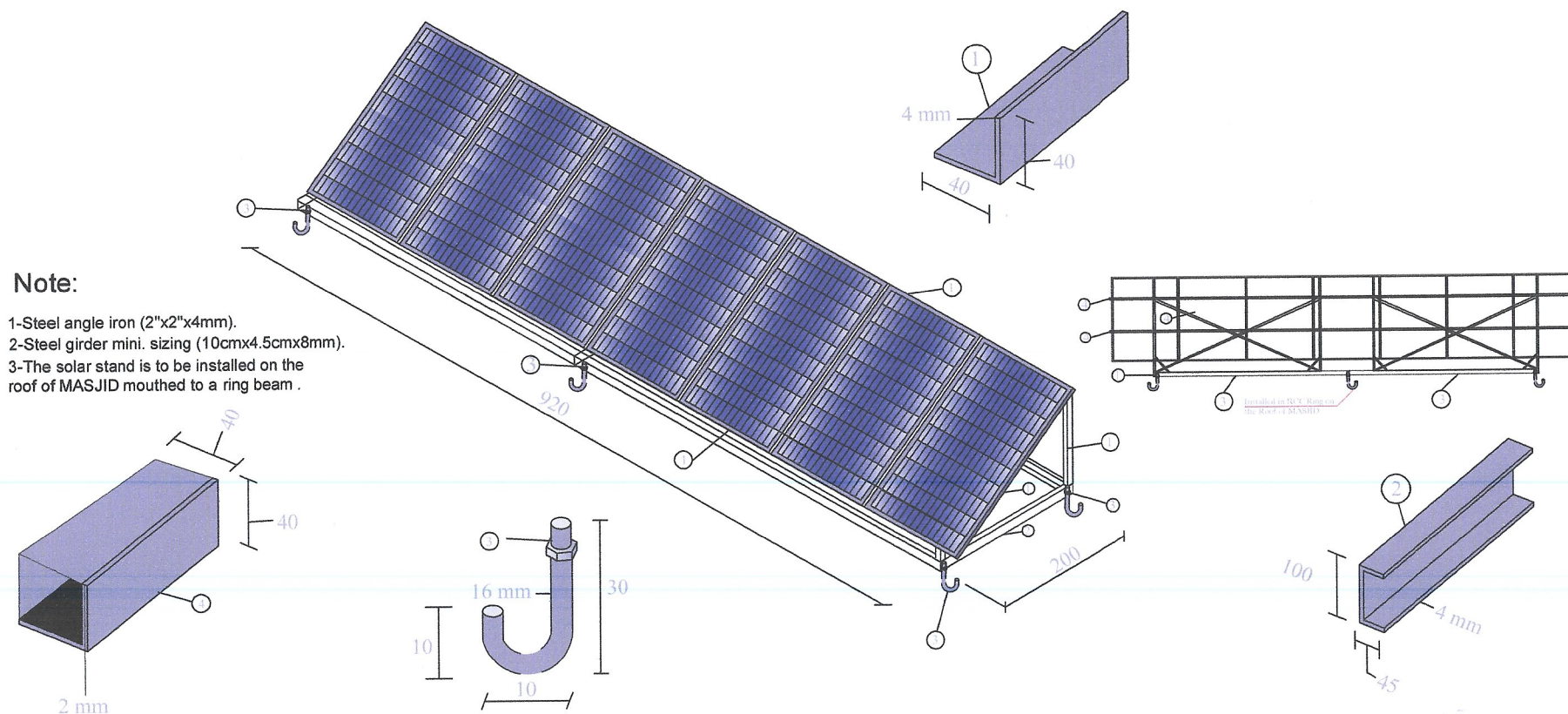




PROJECT NAME:	GARGISIRKALAN PIPE SCHEME
LOCATION:	GARABAGH DISTRICT, KABUL AFGHANIST

Ar. Designed by:	APBHO TECHNICAL TEAM
St. Designed by:	APBHO TECHNICAL TEAM
Drawn by:	APBHO TECHNICAL TEAM
Checked by:	APBHO TECHNICAL TEAM
Approved by:	APBHO TECHNICAL TEAM

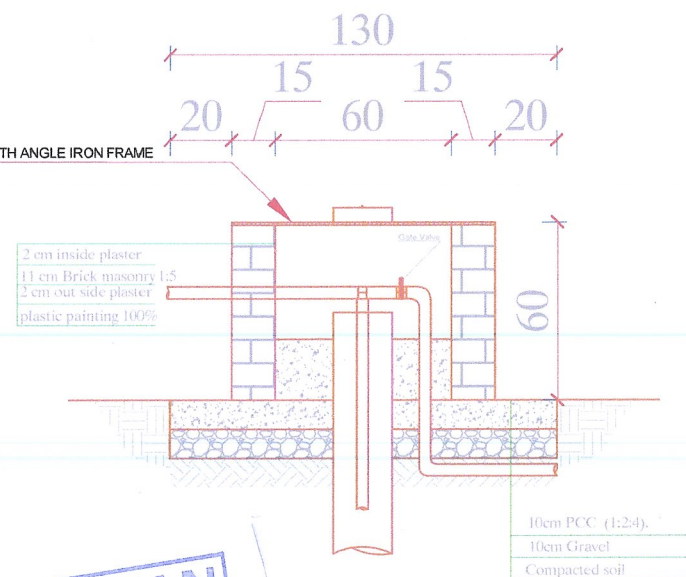
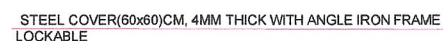
Drawing Title:	SOLAR STAND DETAIL	Sheet No.
Drawing No.		009/01
Scale:		



1 SOLAR STAND DETAILS  
Scale: 1:100








# 1 WELL PROTECTION

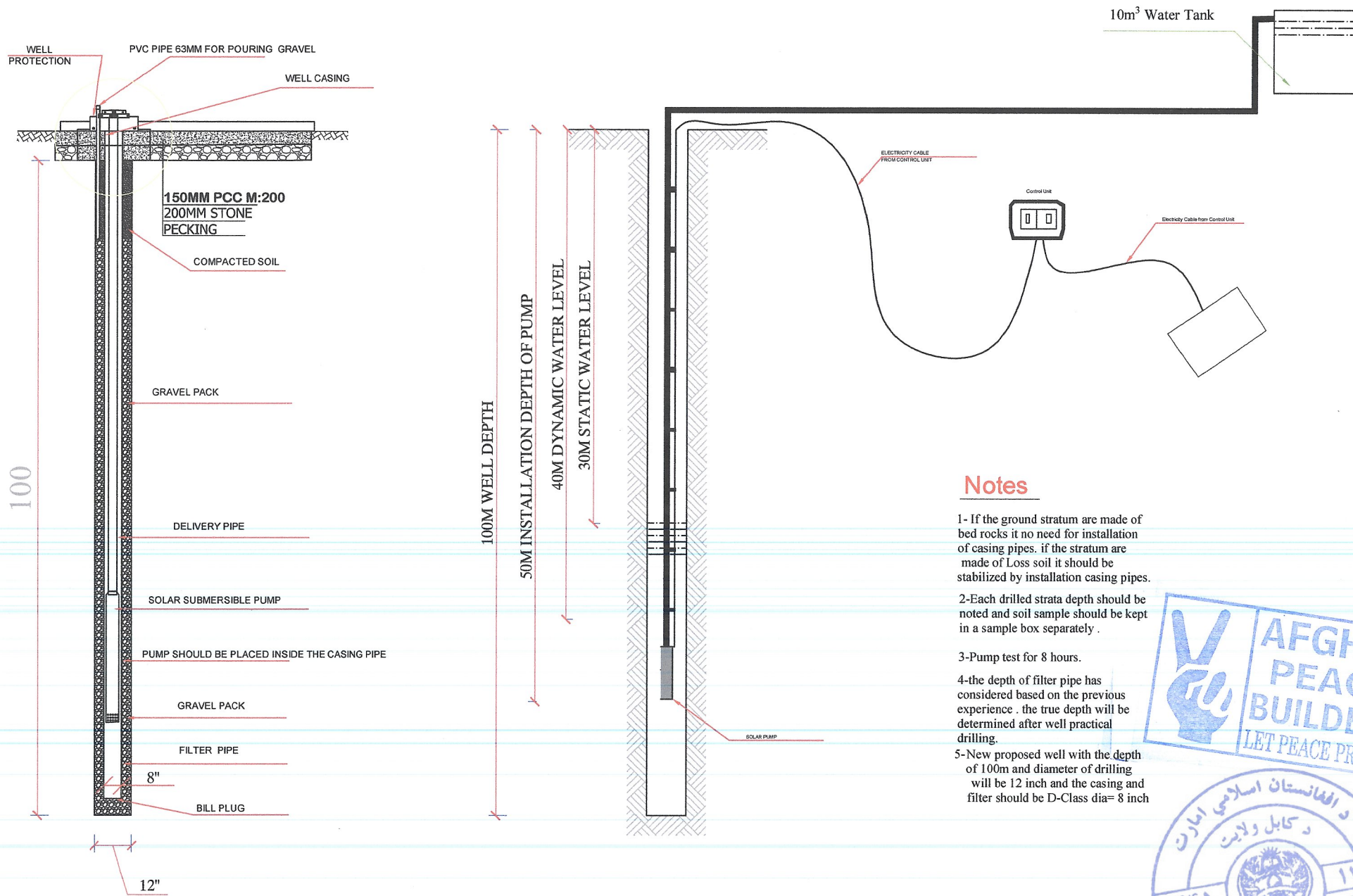
2 SECTION A-A  
Scale: 1:25

Date	22 April 2024	
No.	Revision/ Issues	Date

PROJECT NAME:	DARGOMIRKALAN PIPE SCHEME
LOCATION:	ORABAGH DISTRICT, KABUL, AFGHANISTAN

As. Designed by:	APBHO TECHNICAL TEAM
St. Designed by:	APBHO TECHNICAL TEAM
Drawn by:	APBHO TECHNICAL TEAM
Checked by:	APBHO TECHNICAL TEAM
Approved by:	APBHO TECHNICAL TEAM

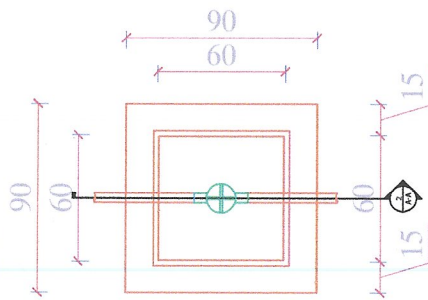
Drawing Title:	WELL PROTECTION DETAILS	Sheet No.: 
Drawing No.:		
Scale:		



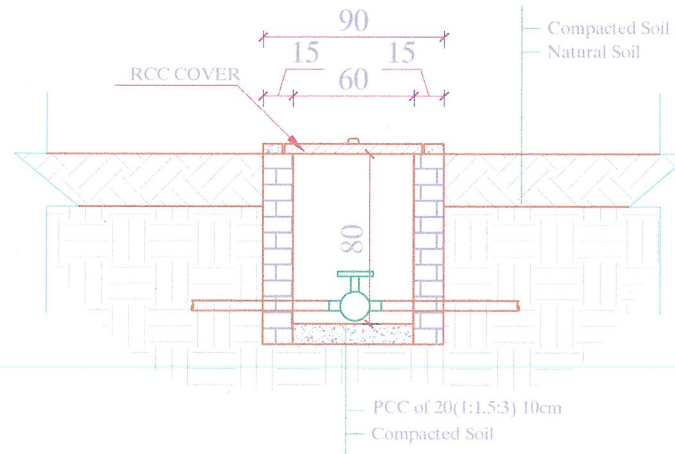
## Notes

- 1- 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 stabilized by installation casing pipes.
- 2-Each drilled strata depth should be noted and soil sample should be kept in a sample box separately .
- 3-Pump test for 8 hours.
- 4-the depth of filter pipe has considered based on the previous experience . the true depth will be determined after well practical drilling.
- 5-New proposed well with the depth of 100m and diameter of drilling will be 12 inch and the casing and filter should be D-Class dia= 8 inch

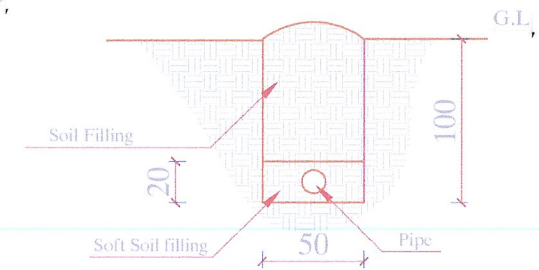
1 WELL SECTION& DETAILS  
Scale: 1:200



① GATE VALVE BOX PLAN  
Scale: 1:25



② SECTION A-A  
Scale: 1:25



① PIPE TRENCH DETAILS  
Scale: 1:25



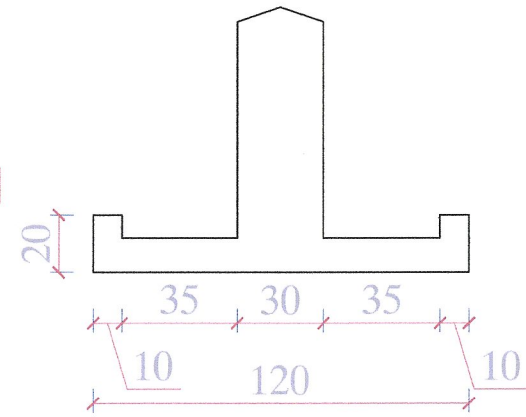
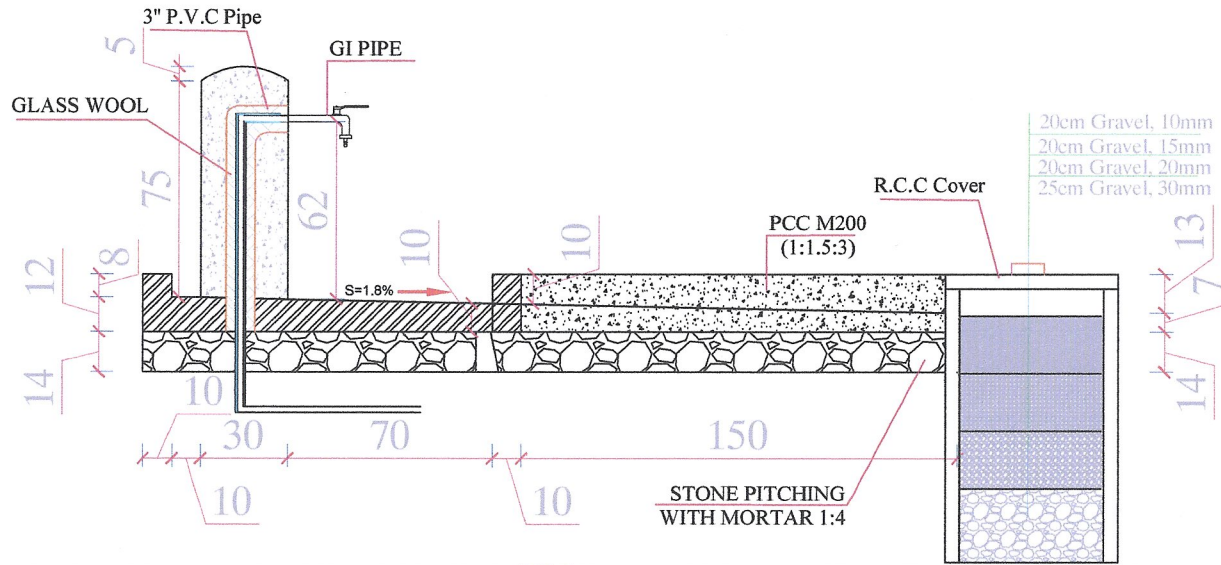
Date		22 April 2024
No.	Revision/ Issue	Date

PROJECT NAME:  
URBAN RURAL PIPE SCHEME  
LOCATION:  
GAMABASH DISTRICT, KABUL, AFGHANISTAN

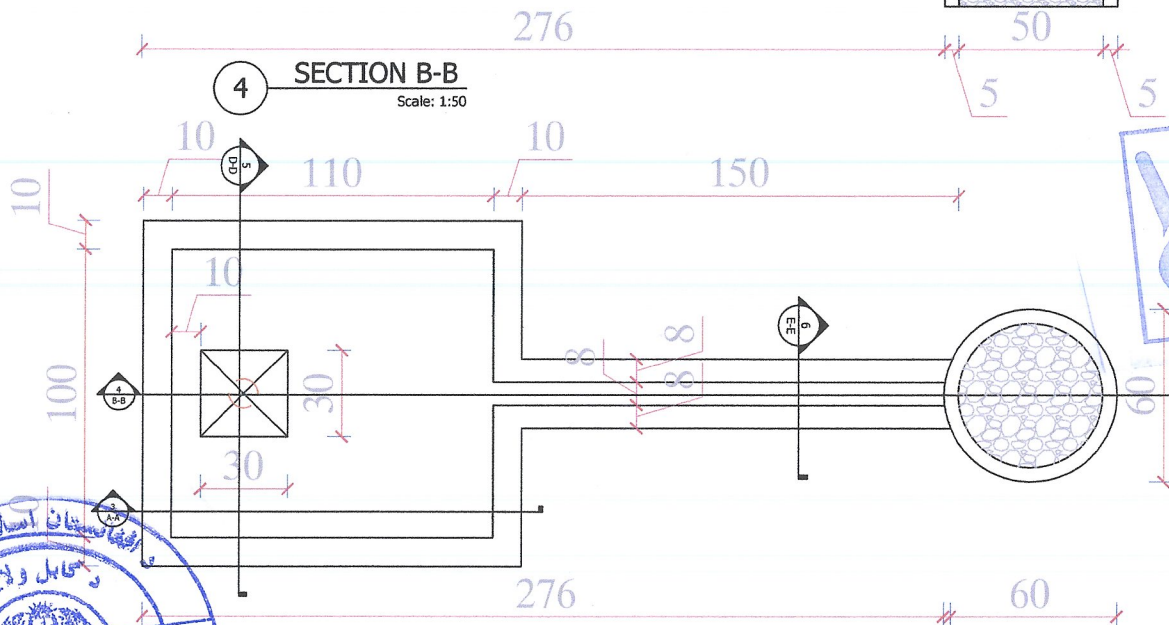
Ar. Designed by	APBHO TECHNICAL TEAM
El. Designed by	APBHO TECHNICAL TEAM
Drawn by	APBHO TECHNICAL TEAM
Checked by	APBHO TECHNICAL TEAM
Approved by	APBHO TECHNICAL TEAM

Drawing Title	GATE VALVE BOX DETAILS	Sheet No.
Drawing No.		011/012
Scale		





5 SECTION D-D  
Scale: 1:50



2 STANDTAP PLAN  
Scale: 1:50

3 SECTION A-A  
Scale: 1:50

