



World Vision International  
World Vision Afghanistan  
Badghis Zonal Office



WASH Sector  
DAWAM WASH Project

Design and Drawing for Solar Powered Water Supply System

**Project Name: Water Supply System in Healthcare Facility**

**Location and Type: Dahan Koocha Sub Health Center (SHC)**

Location: Dahan Koocha SHC

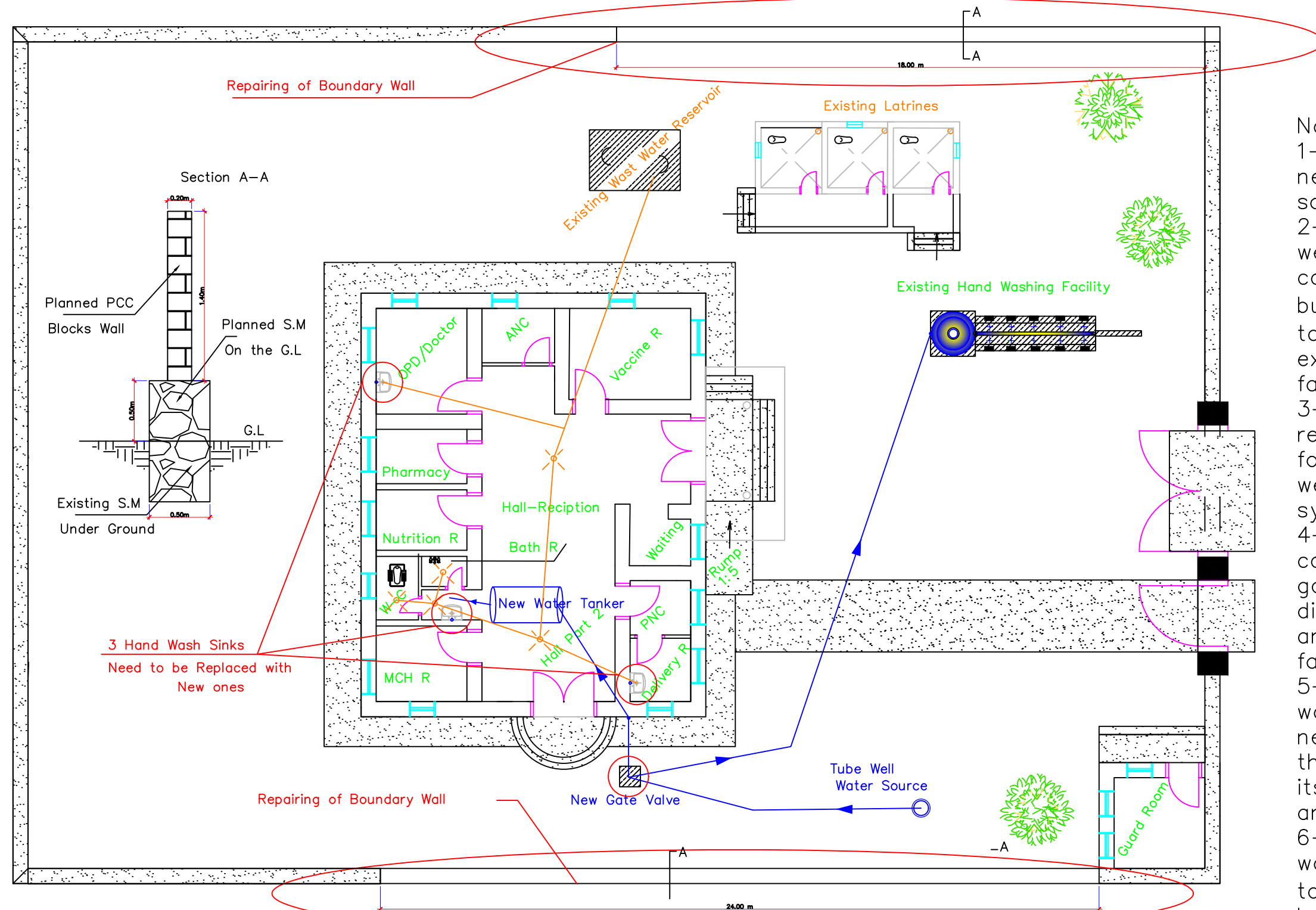
District: Jawand

Province: Badghis

Number of Users: 110

Number of Staff : 10

Project Information	
Number of Users/day	110
Number of Personnel	10
Source Discharge Required	4.8 m3/day
Water Source	Tube Well
Number of Solar Panels 270 Watt	6 Panels
Work Days	60 days
Water Tanker for building	2 M3
Hand Wash Facility	Existing



Note:

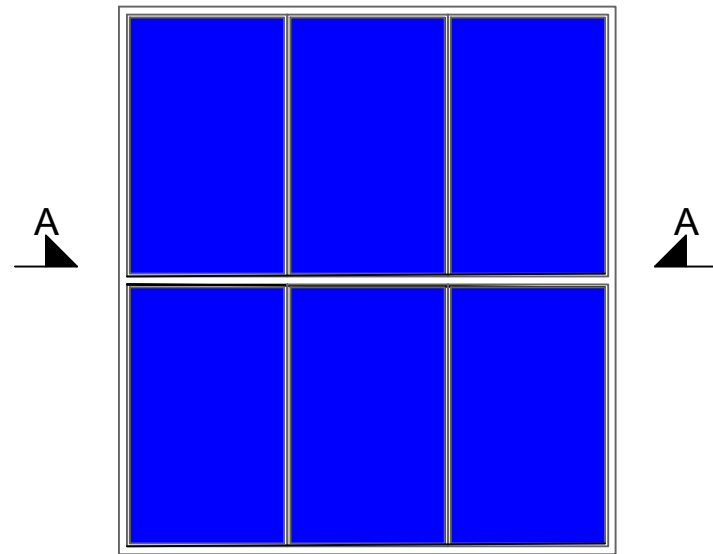
- 1-New tube well is needed as water source.
- 2-Piping system from well to gate valve and connecting to building's new water tanker (2Cub m) and existing hand wash facility.
- 3-Boundary wall repairing is needed for protecting water well and its all system.
- 4-Need to construction of one gate valve for water distribution to building and hand wash facility.
- 5-Three new hand washing sinks are needed to replace in the building with all its required fittings and connectors.
- 6-Existing waste water reservoir need to remove/clean to be empty.

DAHAN KOOCHA SHC-PLAN

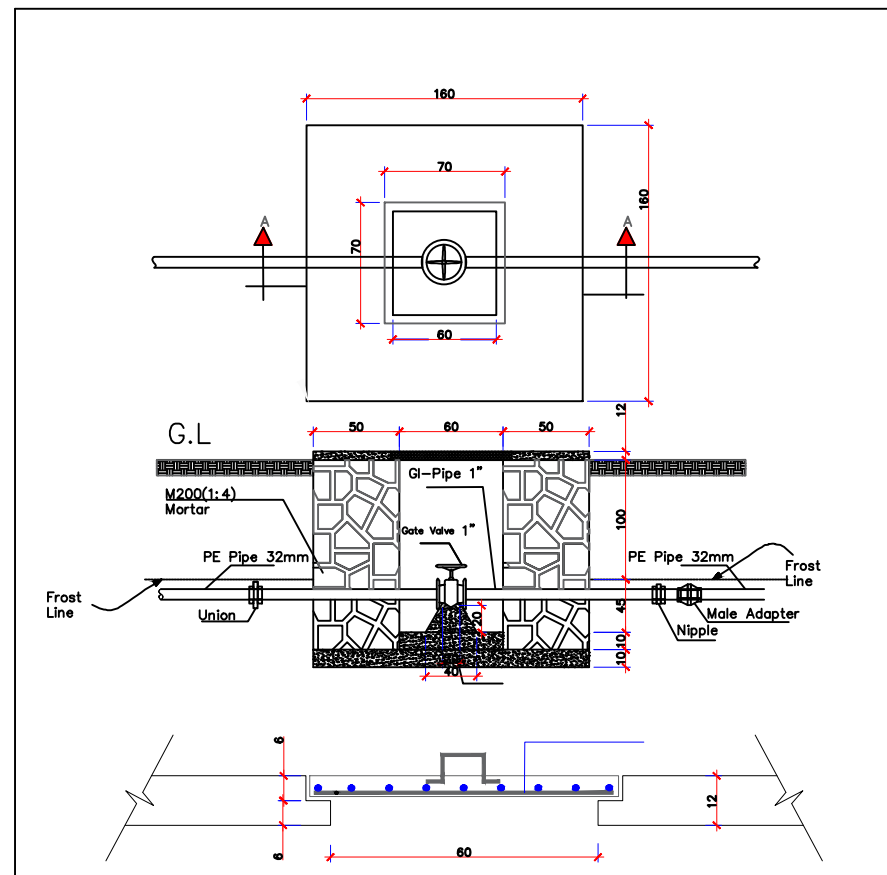
JAWAND DISTRICT

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DAWAM WASH PROJECT				
Province Badghis	District Jawand	Village Dahan Koocha SHC	Project ID Number: A221873	
Designed by:	Reviewed by:	Approved by:	File Name:	Drawing.dwg
WASH Engineer	WASH Advisor	Operation & Response Director	Map Size:	A3
Dahan Koocha Healthcare Facility Site Plan			Plot Date: Jun10, 2024	Plot Scale: NTS

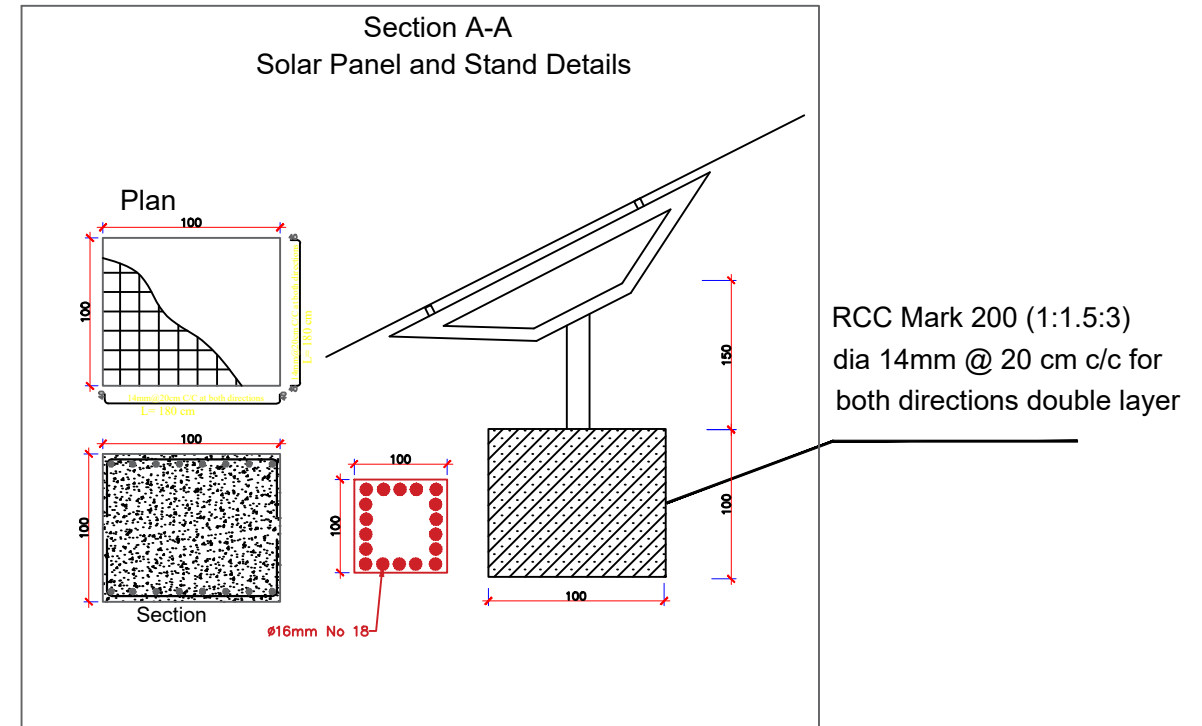
## SOLAR PANEL



## Gate Valve Box-1 Details



## Section A-A Solar Panel and Stand Details



### Note:

1—One Valve Box structure with GI—Gate valves and its all required fittings and connectors is needed near to bore well to manage and distribute water to SHC on the building's water tanker and Hand washing facility's water tanker.

2—The solar panels and solar stand must be installed on the roof of SHC building with stable and proper GI frame and 1 cubic m RCC for its firm and foundation.

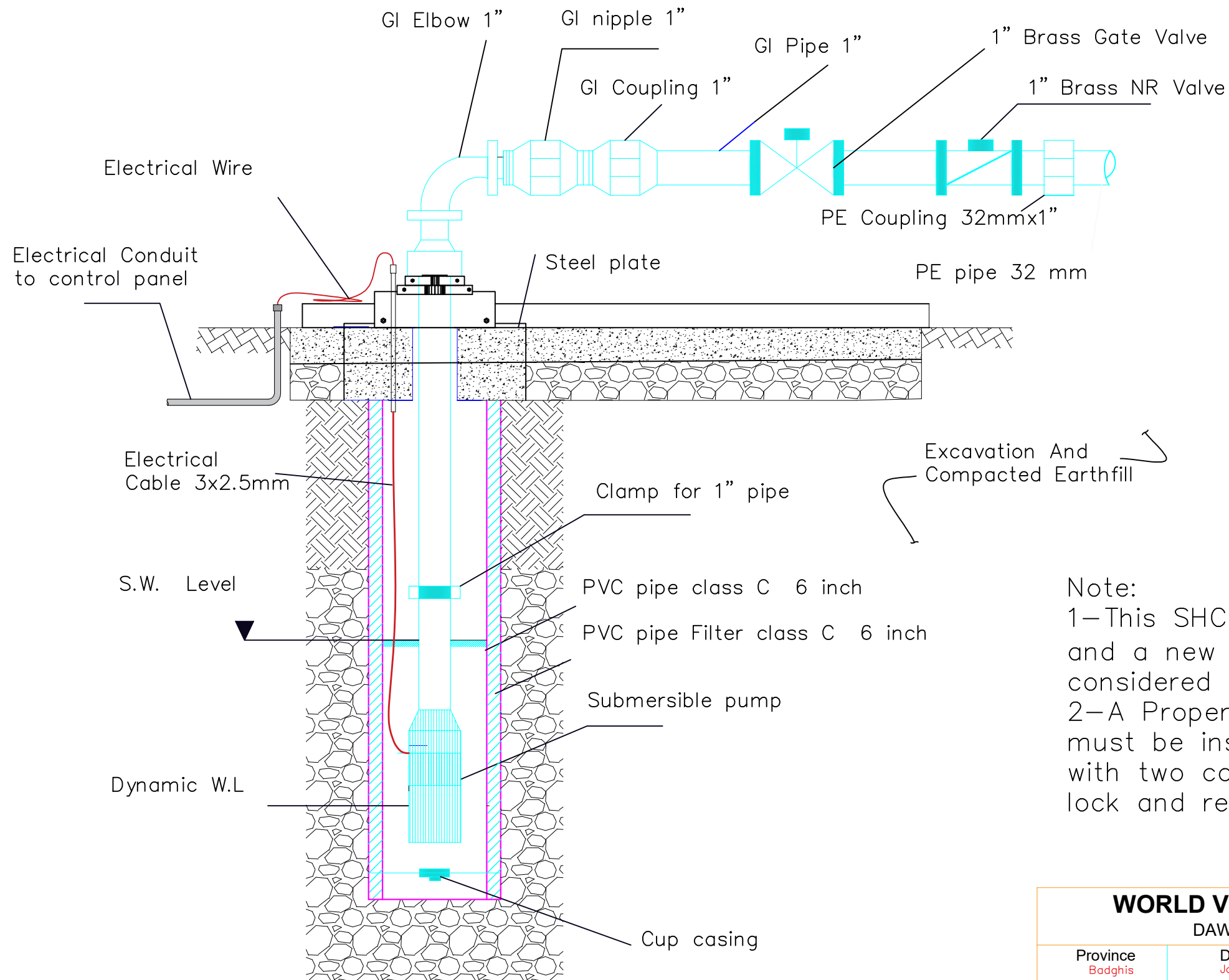
## WORLD VISION AFGHANISTAN DAWAM WASH PROJECT

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Province Badghis	District Jawand	Village Dahan Koocha SHC	Project ID Number: A221873
Designed by: WASH Engineer	Reviewed by: WASH Advisor	Approved by: Operation & Response Director	File Name: Drawing.dwg

Solar Tand & Valve Box  
Details

Map Size: **A3**  
Plot Date: Jun10,2024  
Plot Scale: NTS



Well Details

Note:  
 1—This SHC needs to one water source and a new tube/bore well in 12" dia considered for its water supply system.  
 2—A Proper GI Cover Box as well cup must be installed at the top of well with two coat anti rust color and its lock and requirements.

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Well Details			Map Size: A3
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