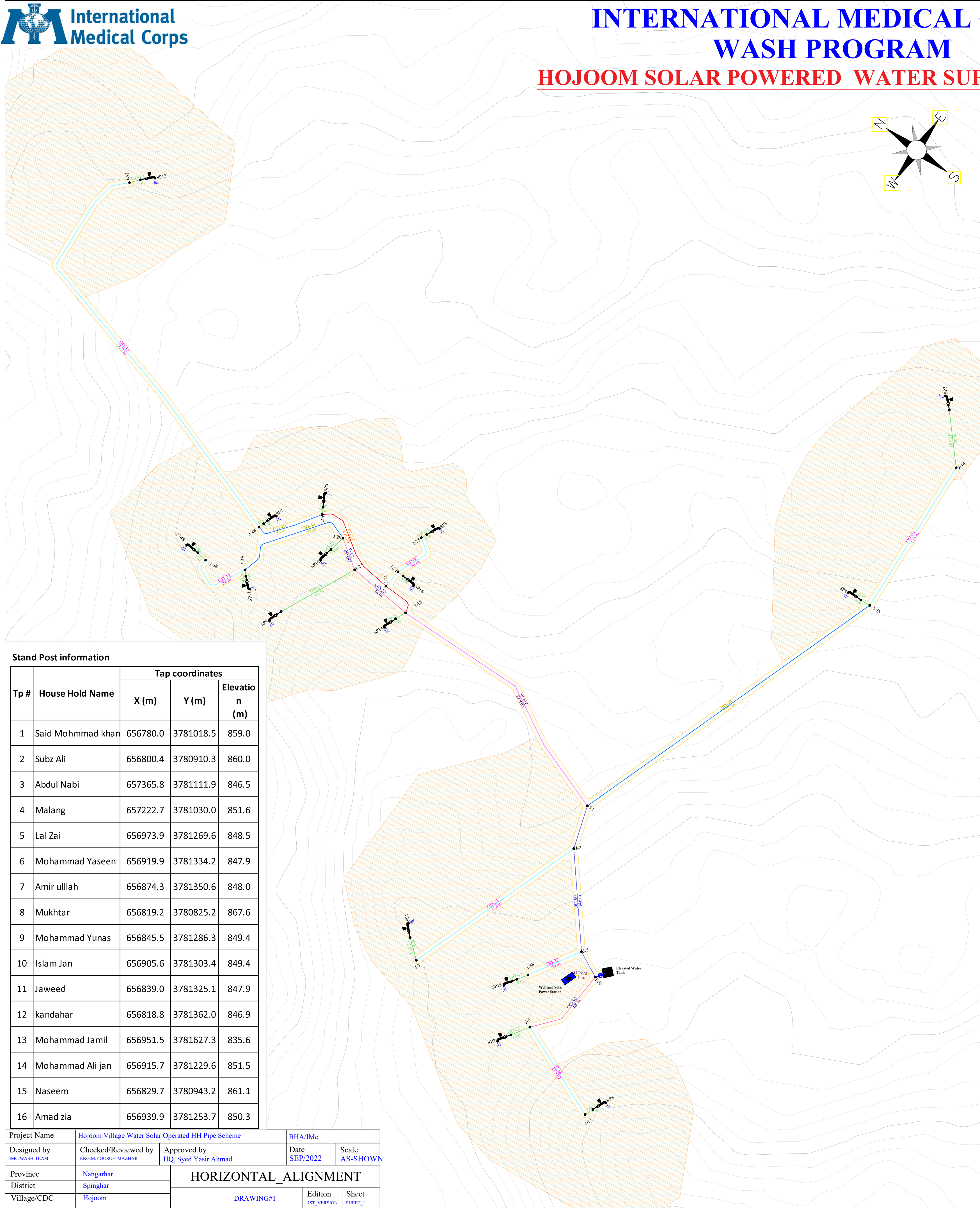
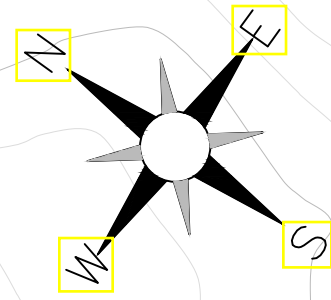
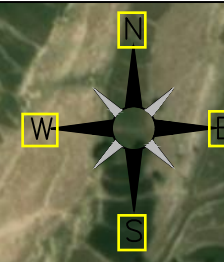


INTERNATIONAL MEDICAL CORPS  
WASH PROGRAM  
HOJOOM SOLAR POWERED WATER SUPPLY SYSTEM



Stand Post information				
Tp #	House Hold Name	Tap coordinates		
		X (m)	Y (m)	Elevation (m)
1	Said Mohammad khan	656780.0	3781018.5	859.0
2	Subz Ali	656800.4	3780910.3	860.0
3	Abdul Nabi	657365.8	3781111.9	846.5
4	Malang	657222.7	3781030.0	851.6
5	Lal Zai	656973.9	3781269.6	848.5
6	Mohammad Yaseen	656919.9	3781334.2	847.9
7	Amir ullah	656874.3	3781350.6	848.0
8	Mukhtar	656819.2	3780825.2	867.6
9	Mohammad Yunas	656845.5	3781286.3	849.4
10	Islam Jan	656905.6	3781303.4	849.4
11	Jaweed	656839.0	3781325.1	847.9
12	kandahar	656818.8	3781362.0	846.9
13	Mohammad Jamil	656951.5	3781627.3	835.6
14	Mohammad Ali jan	656915.7	3781229.6	851.5
15	Naseem	656829.7	3780943.2	861.1
16	Amad zia	656939.9	3781253.7	850.3

Project Name	Hojoom Village Water Solar Operated HH Pipe Scheme			BHA/IMC	
Designed by IMC-WASH-TEAM	Checked/Reviewed by ENG.M.YOUSUF MAZHAR	Approved by HQ, Syed Yasir Ahmad	Date SEP/2022	Scale AS-SHOW	
Province	Nangarhar	HORIZONTAL_ALIGNMENT			
District	Spinghar				
Village/CDC	Hojoom				
		DRAWING#1	Edition 1ST_VERSION	Sheet SHEET_1	



**PIPE TRENCH DETAIL**

**LEGEND**

- Water Well+PV system
- Topographic (Contours Lines)
- Residential Area
- PE Pipe 100, PN10 Ø(OD) 160
- PE Pipe 100, PN10 Ø(OD) 140
- PE Pipe 100, PN10 Ø(OD) 125
- PE Pipe 100, PN10 Ø(OD) OD-110
- PE Pipe 100, PN10 Ø(OD) OD-90
- PE Pipe 100, PN10 Ø(OD) OD-75
- PE Pipe 100, PN10 Ø(OD) OD-63
- PE Pipe 100, PN10 Ø(OD) OD-50
- PE Pipe 100, PN10 Ø(OD) OD-40
- PE Pipe 100, PN16 Ø(OD) OD-32
- PE Pipe 100, PN16 Ø(OD) OD-25
- PE Pipe 100, PN16 Ø(OD) OD-20
- PE-PIPE FROM WELL-TANK
- STAND POST
- POINT (NODES)
- WATER TANK
- GATE VALVE BOX

**Infrastructures Location**

S/N	Feature Name	Easting (M)	Northing (M)	Elevation (m)
1	Water Well	656,869.65	3,780,918.53	861
2	Water Tank	656,887.36	3,780,907.97	862

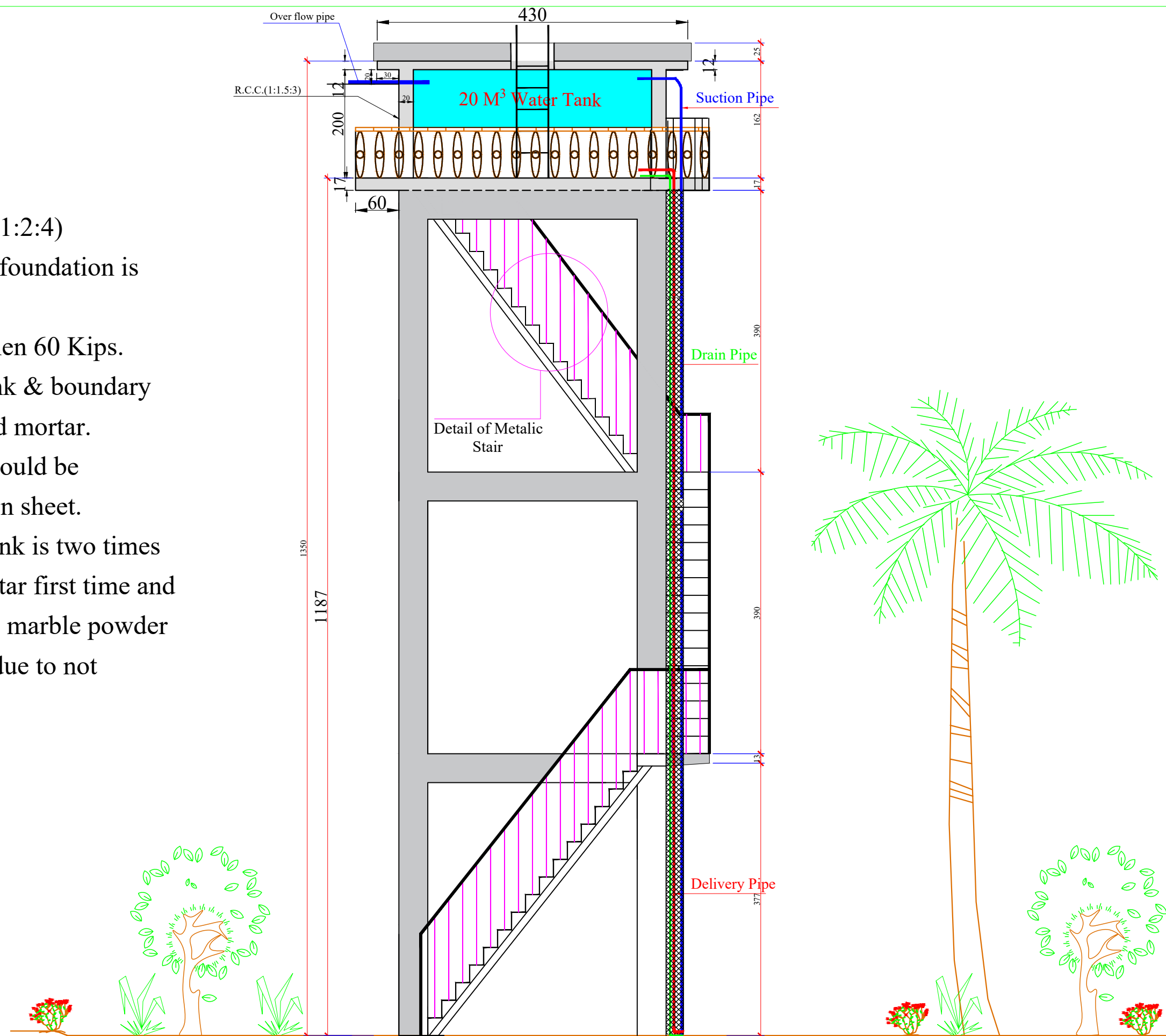
**Note:**

- The unit used for length is meter and for diameter is (").
- HDPE-100 Pipe: 16 Bar used for Ø20, Ø25 and Well-Tank pipes, and the HDPE-PE100, 10 Bars is using for larger sizes of the pipes, from Ø32 and above (As per PE pipe standard Catalogue).
- All diameter of PE pipe in drawing considered Outer diameter.
- The design/drawing has been prepared based on GPS surveyed data, therefore the flow must be checked in some critical pressure zones and in case of issues should inform the design team for further technical guidance and follow ups.
- The WASH Site engineer and contractor should adjust the Taps flow to design flow.
- Arbitrary tap's connections are not allowed, so please avoid extra tap's connection, but in case of need please contact with the design team and then you can take further steps accordingly.



Note:

- All dimension are in cm.
- Mark of concrete M(1:1.5:3).
- Mark of Plain concrete PCC M(1:2:4)
- Safe bearing capacity of Soil in foundation is not less then 2 kg/cm<sup>2</sup>.
- Steel bar Mark Grade not less then 60 Kips.
- Plastering work of Elevated Tank & boundary Wall with M(1:4) cement + sand mortar.
- Out let pipe and Suction pipe should be protected (Isolation) with GI iron sheet.
- Inside plastering of Elevated Tank is two times with M(1:4) cement + sand mortar first time and second time M(1:1:1) cement + marble powder + zero # stone (Cheps) mortar due to not leakages in the future



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INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

Drafted and Design BY:	IMC/WASH Team
Review and Checked by:	Eng. Yousuf Mazhar
Review and Approved by:	Eng. Mohammad Yasir

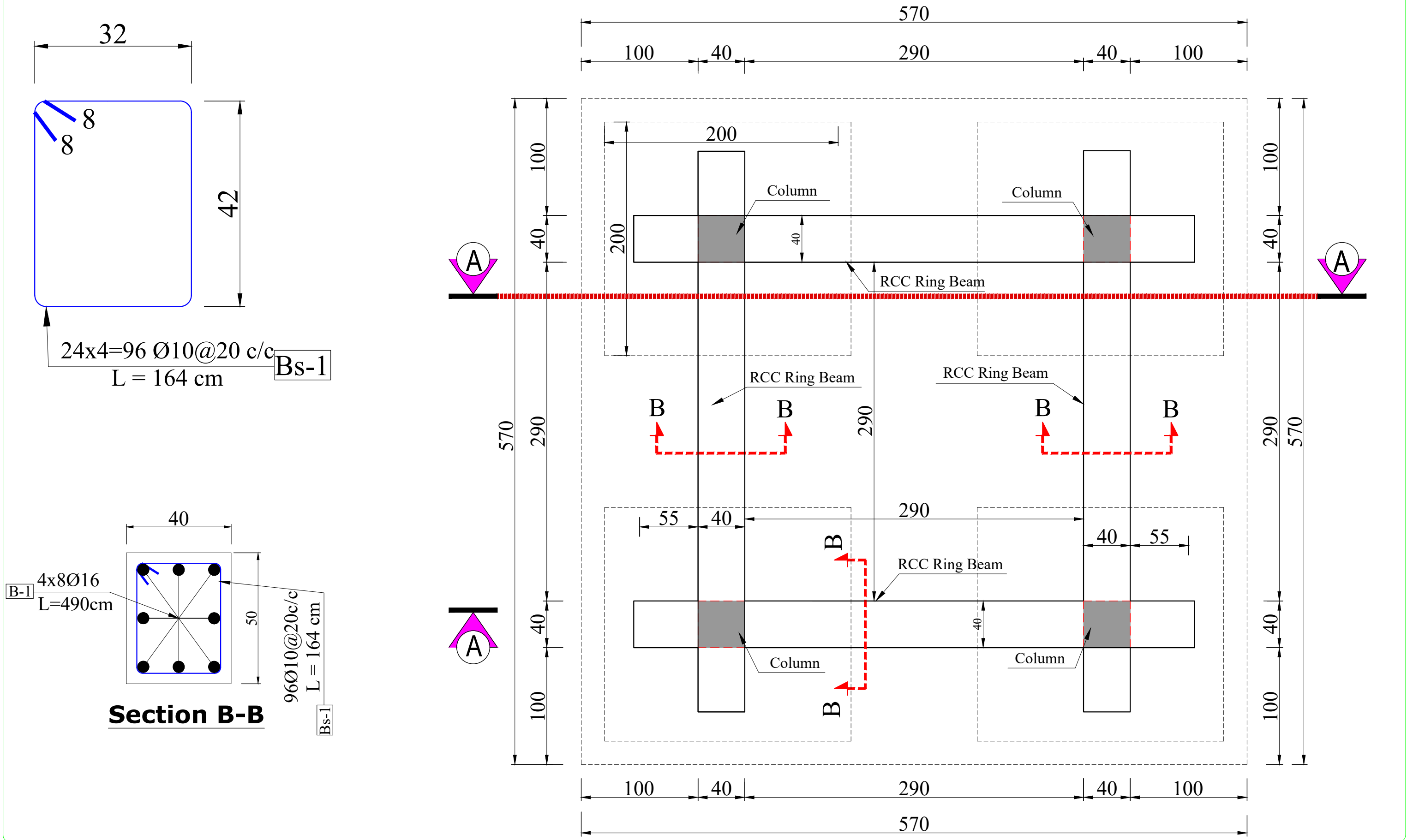
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District	Spenghar
Village	Hojom

Date	Sep/2022
Scale	A3-shown
Unit	Centimeters

Drawing Title	Elevated 20 M3 Tank
Sheet Title	Front View
Sheet #	01

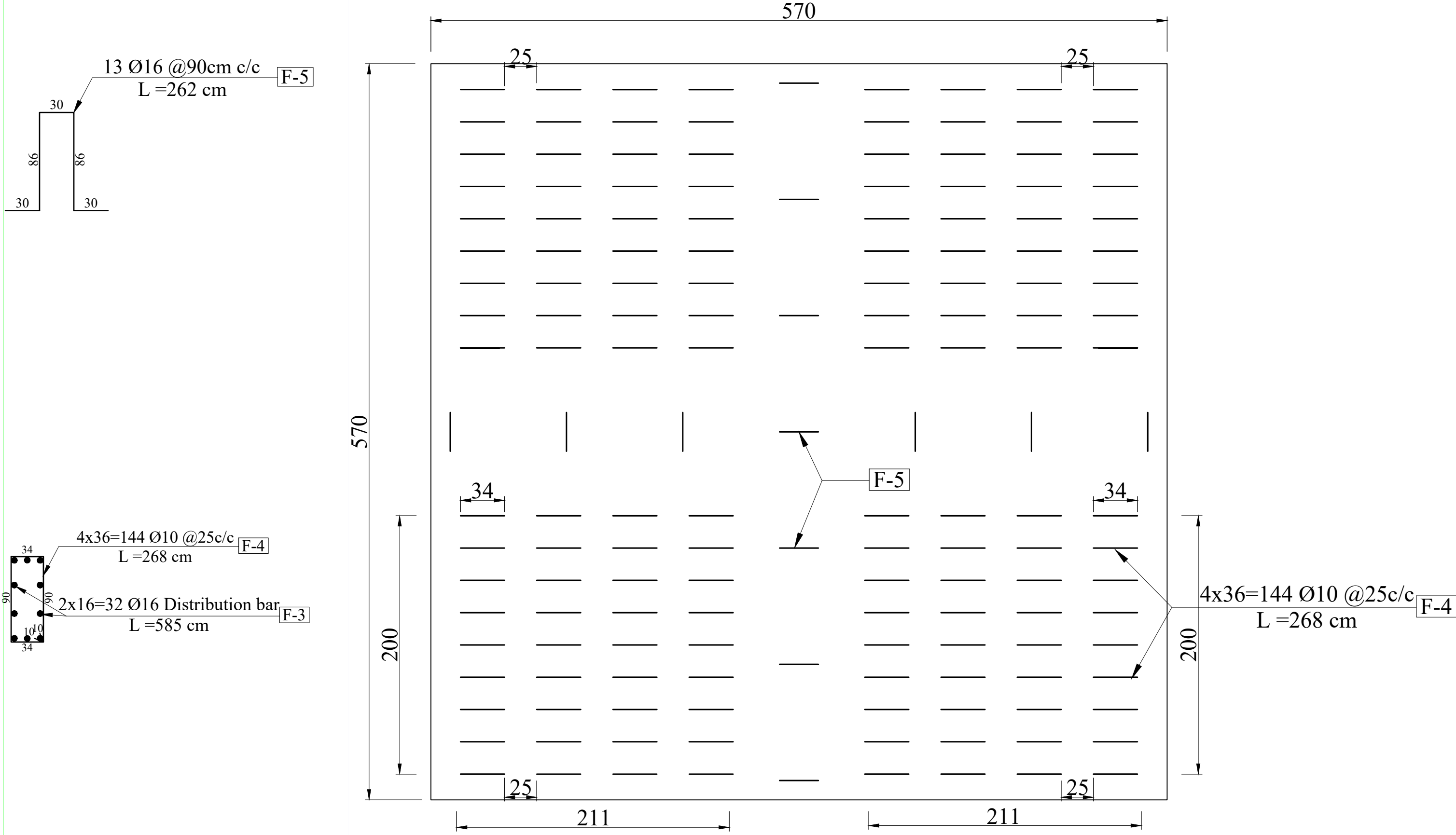



Foundation Plan of Elevated Water Tank



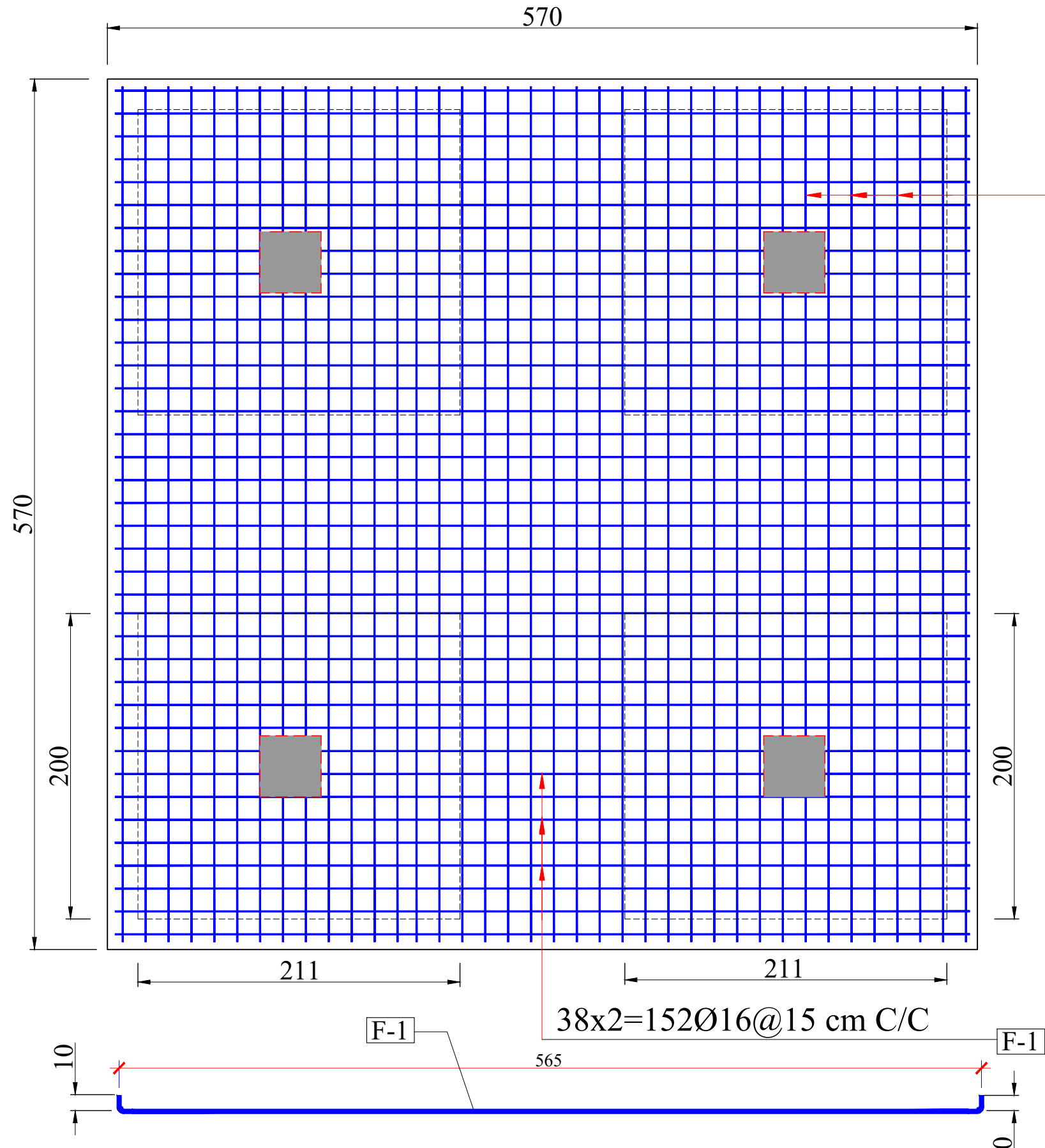
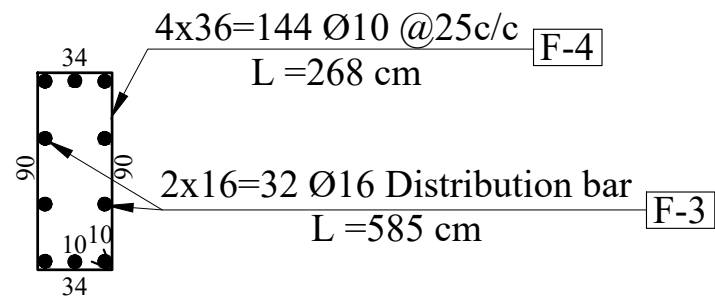
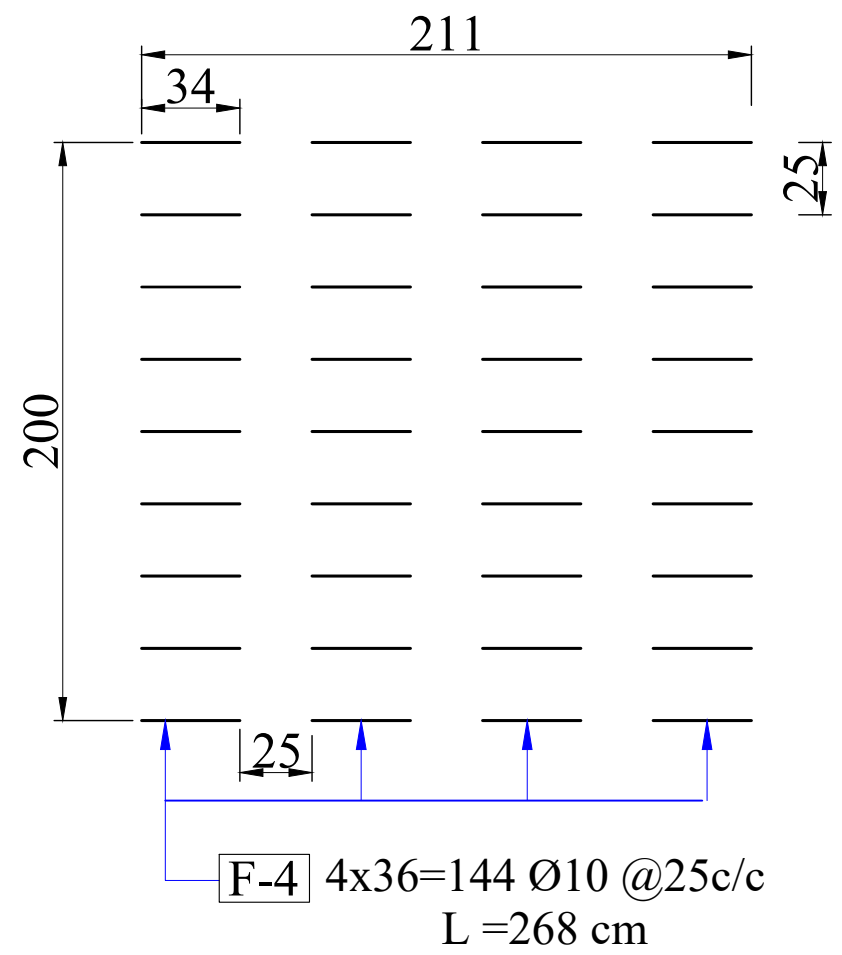
Funded by:	USAID/BHA	Drafted and Design BY:	IMC/WASH Team	Province	Nangarhar	Date	Sep/2022	Drawing Title	Elevated 20 M3
INTERNATIONAL MEDICAL CORPS (IMC)		Review and Checked by:	Eng. Yousuf Mazhar	District	Spenghar	Scale	A3-Shown	Sheet Title	Foundation Plan
PROGRAM DEPARTMENT		Review and Approved by:	Eng. Mohammad Yasir	Village	Hojom	Unit	Centimeters	Sheet #	-----
WASH UNIT									

Reinforcement Plan of Footing



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INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT		Review and Checked by:	Eng. Yousuf Mazhar	District	Spenghar	Scale	A3-Shown	Sheet Title	Foundation Reinfor.	
		Review and Approved by:	Eng. Mohammad Yasir	Village	Hojom	Unit	Centimeters	Sheet #	-----	

# Reinforcement Plan of Footing



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WASH UNIT

Drafted and Design BY: IMC/WASH Team

Review and Checked by: Eng. Yousuf Mazhar

Review and Approved by: Eng. Mohammad Yasir

Province: Nangarhar

District: Spenghar

Village: Hojom

Date: Sep/2022

Scale: A3-Shown


Unit: Centimeters

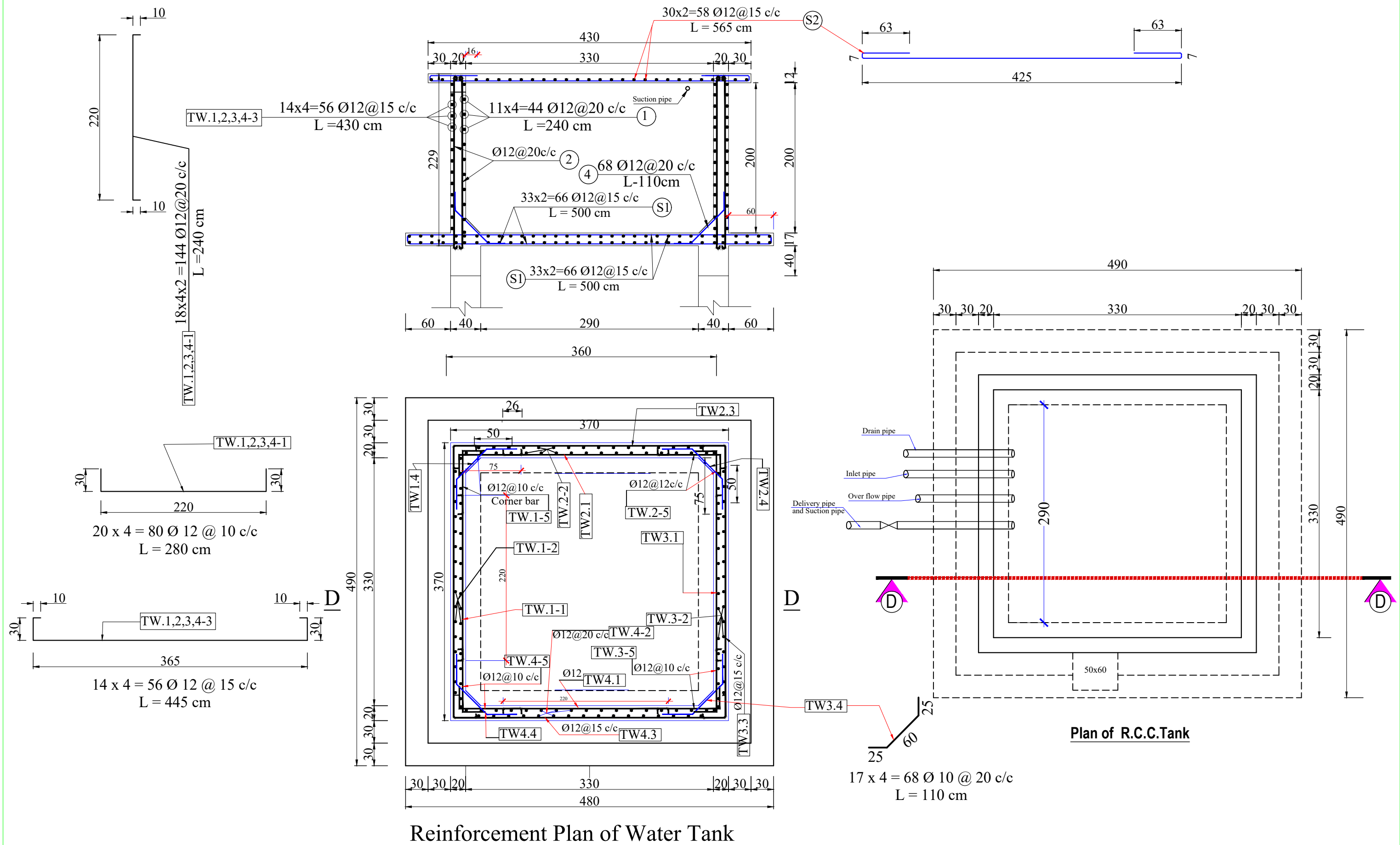
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Sheet Title: Foundation Reinf.

Sheet #: -----



Funded by:	USAID/BHA	Drafted and Design BY:	IMC/WASH Team	Province	Nangarhar	Date	Sep/2022	Drawing Title	Elevated 20 M3	
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT		Review and Checked by:	Eng. Yousuf Mazhar	District	Spenghar	Scale	A3-Shown	Sheet Title	Section A-A	
		Review and Approved by:	Eng. Mohammad Yasir	Village	Hojom	Unit	Centimeters	Sheet #	-----	



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PROGRAM DEPARTMENT  
WASH UNIT

Drafted and Design BY: **IMC/WASH Team**

Review and Checked by: **Eng. Yousuf Mazhar**

Review and Approved by: **Eng. Mohammad Yasir**

Province: **Nangarhar**

District: **Spenghar**

Village: **Hojom**

Date: **Sep/2022**

Scale: **A3-Shown**

Unit: **Centimeters**

Drawing Title: **Elevated 20 M3**

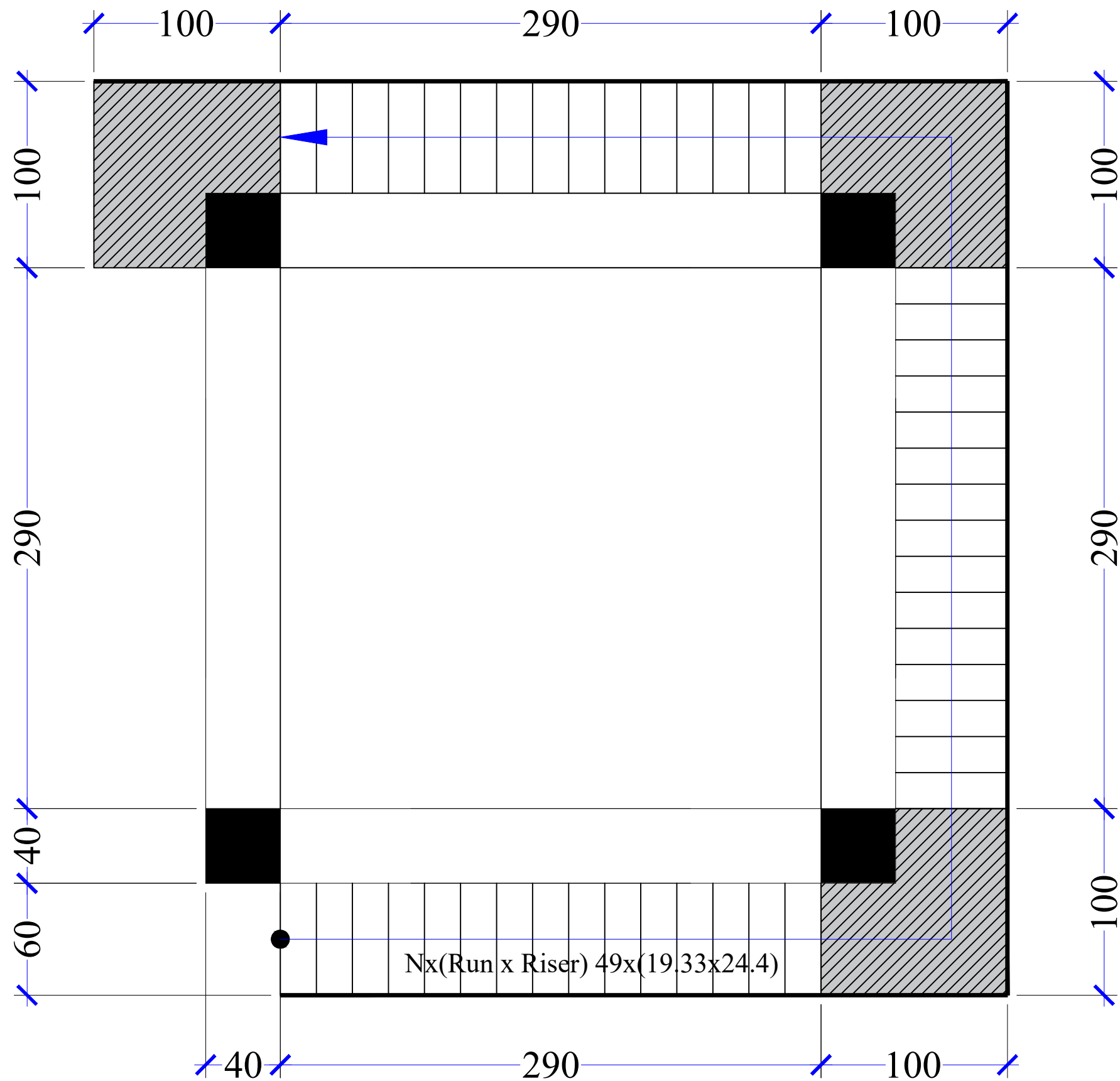
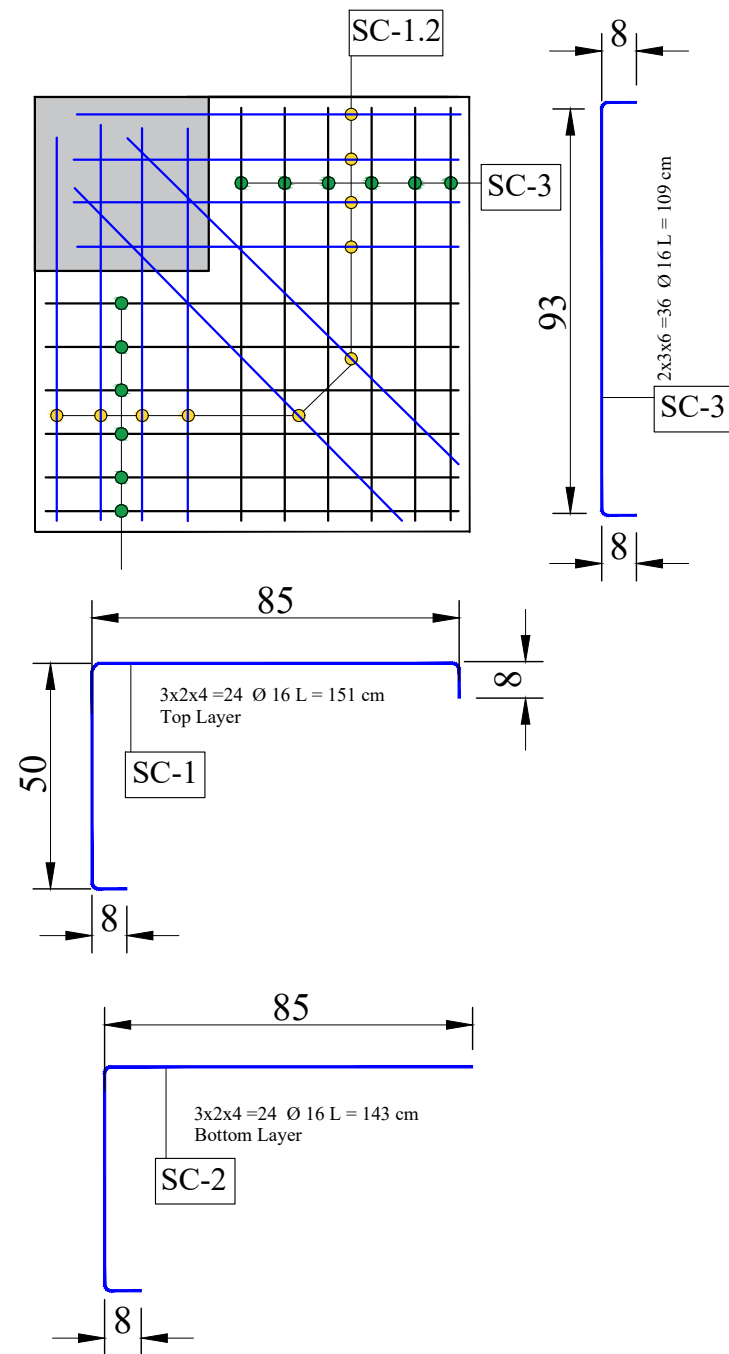
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# Stair Case Landing Reinforcement Details



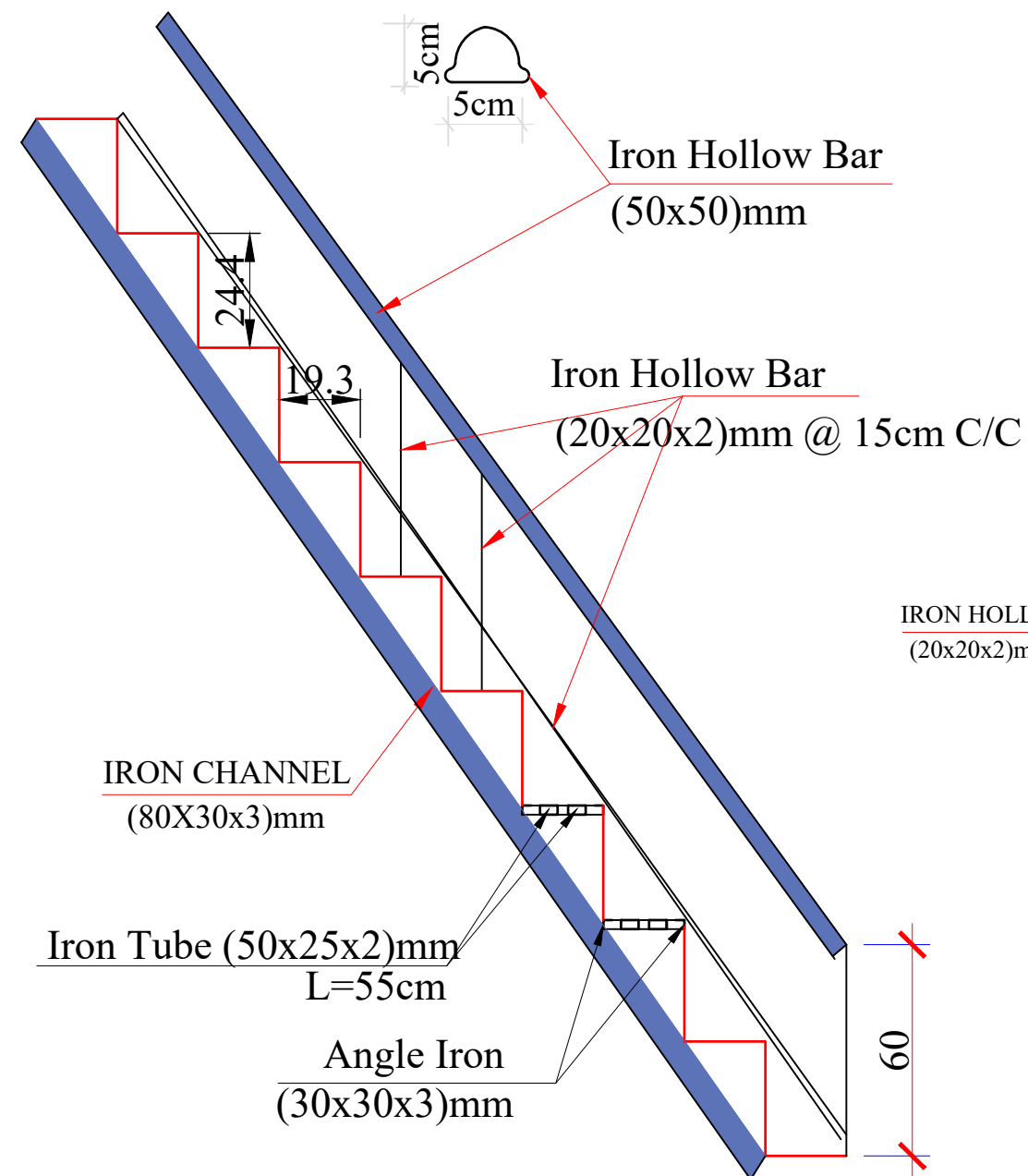
## Stair Case Plan

Funded by:	USAID/BHA	Drafted and Design BY:	IMC/WASH Team	Province	Nangarhar	Date	Sep/2022	Drawing Title	Elevated 20 M3
INTERNATIONAL MEDICAL CORPS (IMC)		Review and Checked by:	Eng. Yousuf Mazhar	District	Spenghar	Scale	A3-Shown	Sheet Title	Stair Plan
PROGRAM DEPARTMENT		Review and Approved by:	Eng. Mohammad Yasir	Village	Hojom	Unit	Centimeters	Sheet #	-----
WASH UNIT									

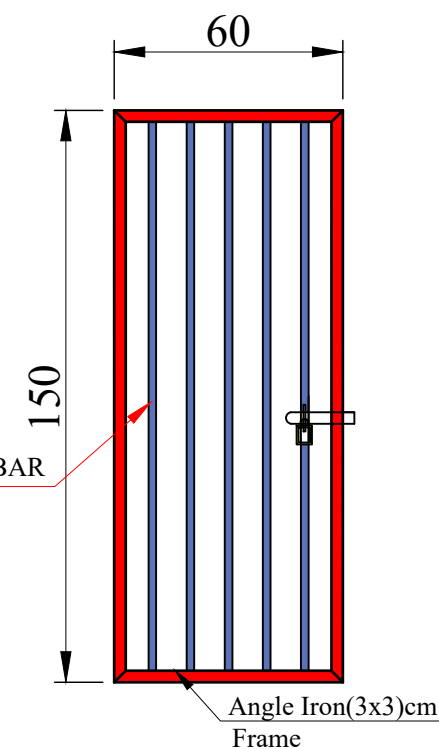




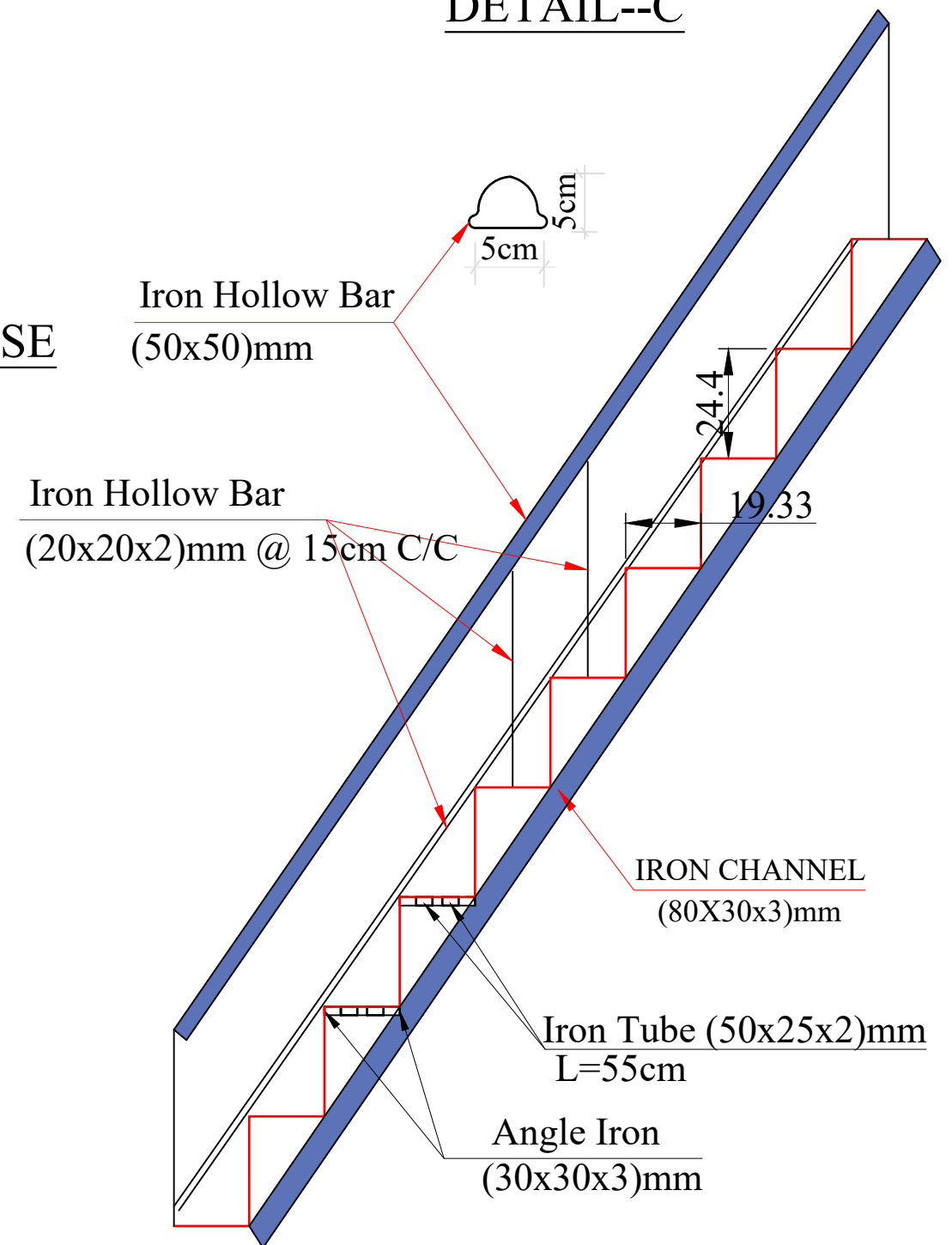
DETAIL--B



DOOR FOR STAIR CASE



DETAIL--C



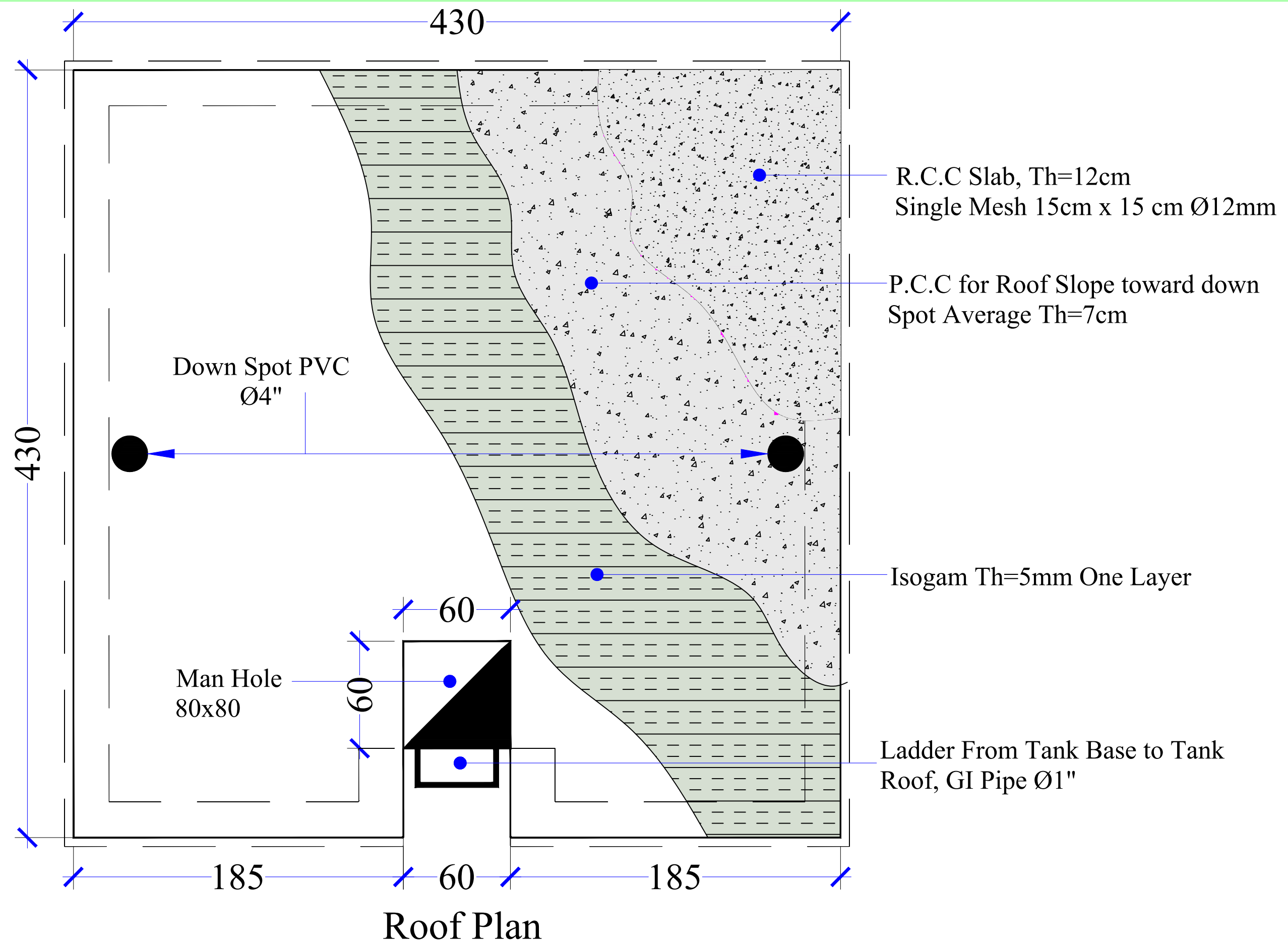
Funded by:	USAID/BHA
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

Drafted and Design BY:	IMC/WASH Team
Review and Checked by:	Eng. Yousuf Mazhar
Review and Approved by:	Eng. Mohammad Yasir

Province	Nangarhar
District	Spenghar
Village	Hojom

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Elevated 20 M3
Sheet Title	Stair Section
Sheet #	-----



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Drafted and Design BY:	IMC/WASH Team
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Review and Approved by:	Eng. Mohammad Yasir

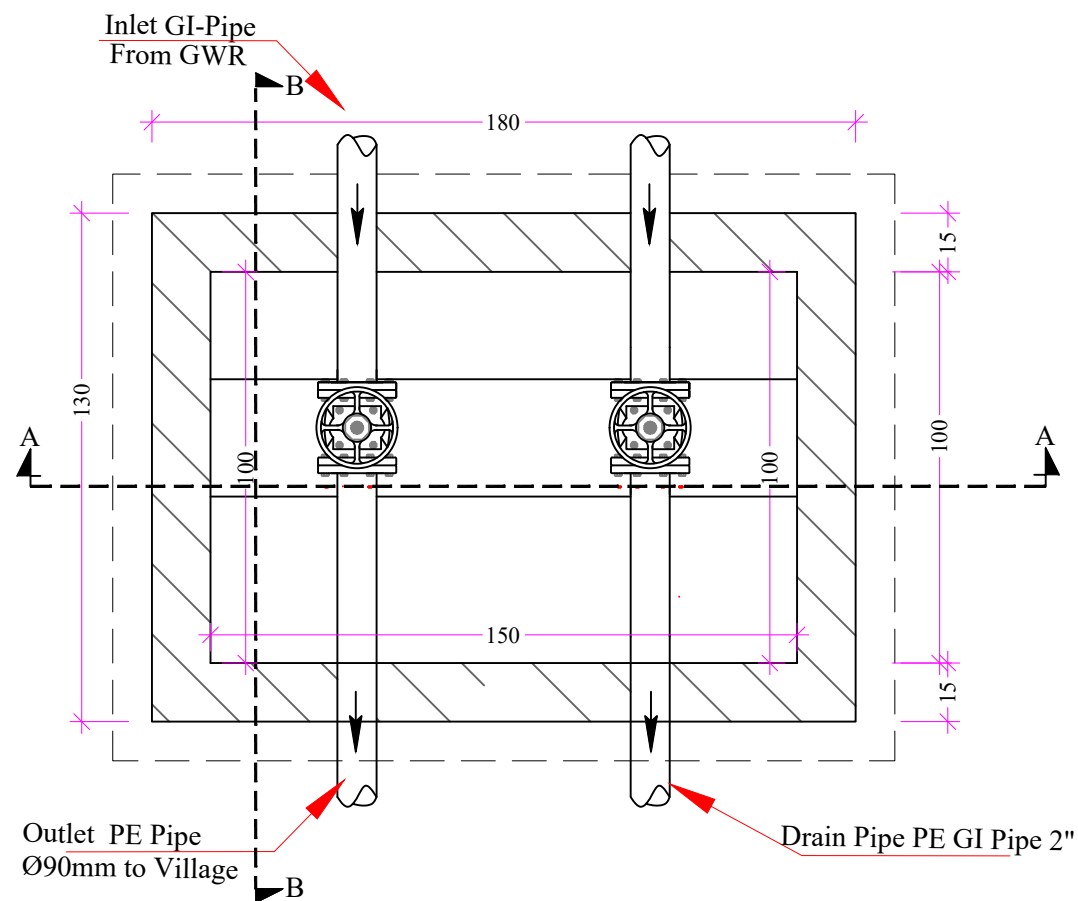
Province	Nangarhar
District	Spenghar
Village	Hojom

Date	Sep/2022
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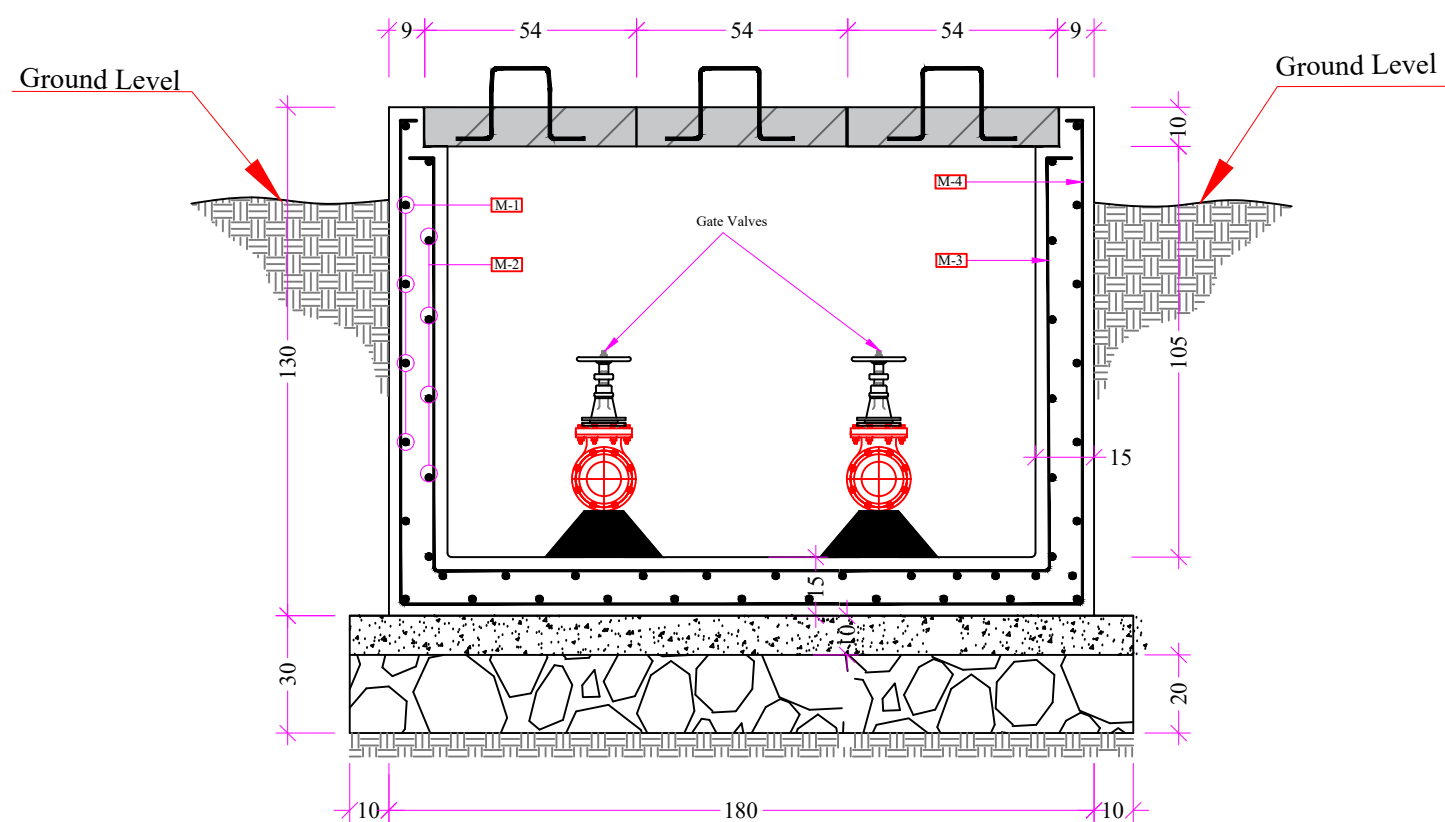
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Sheet Title	Roof Plan
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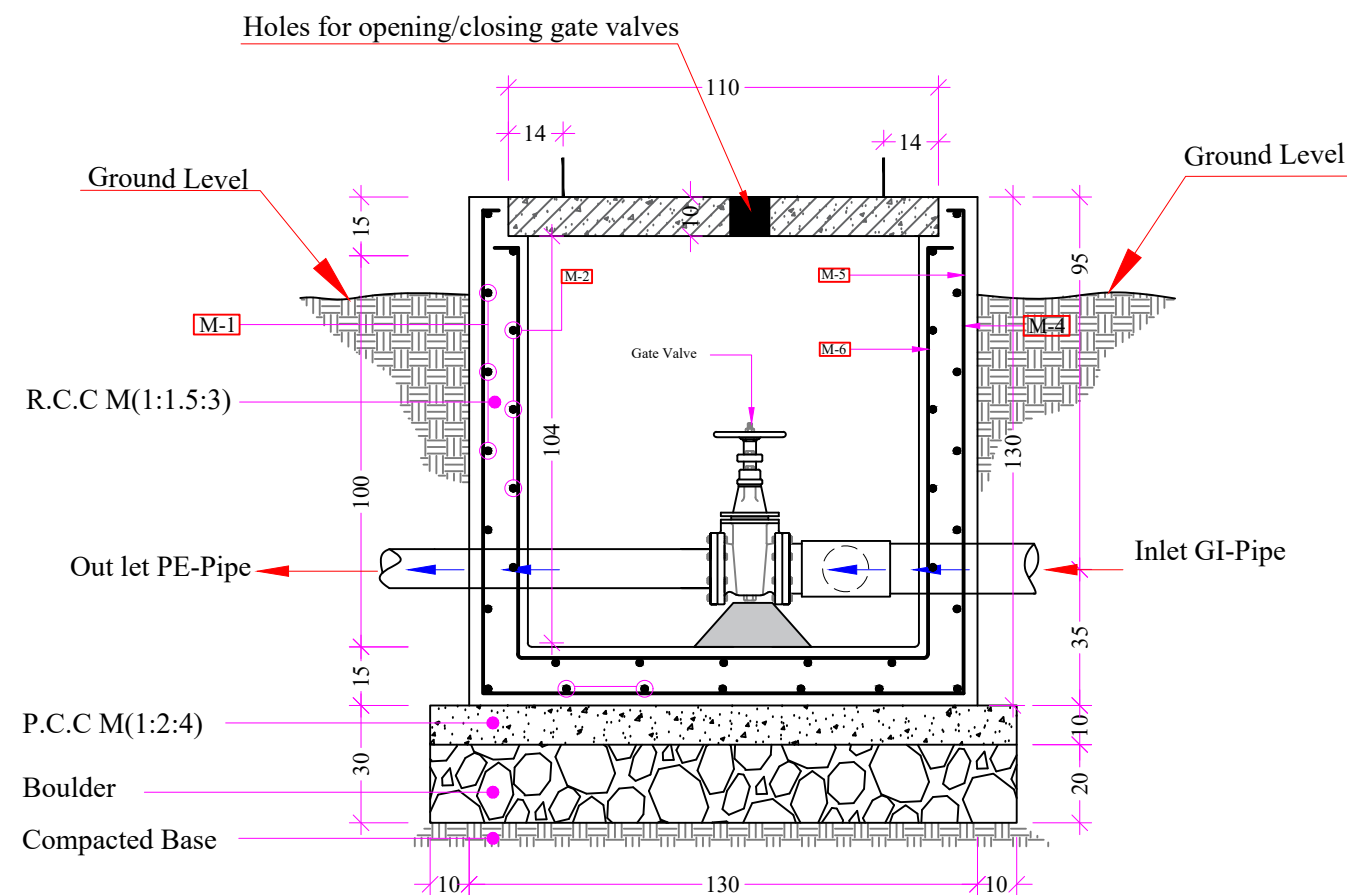




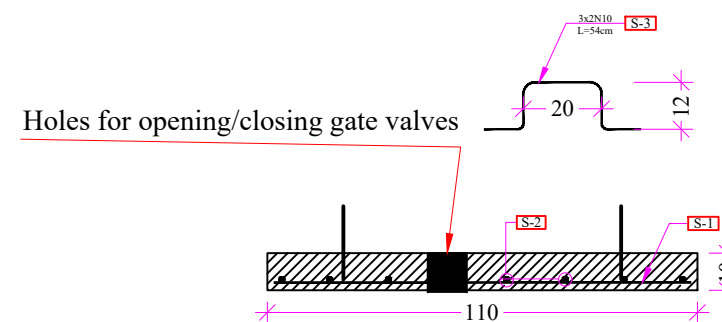
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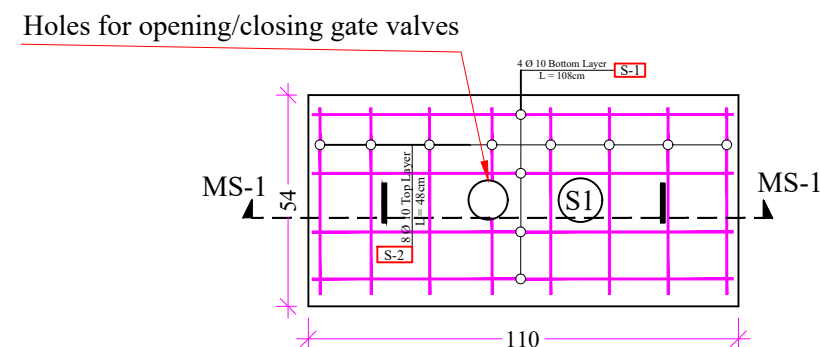
SECTION A-A



SECTION B-B



SECTION MS1-MS1



RCC SLAB PLAN

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WASH UNIT

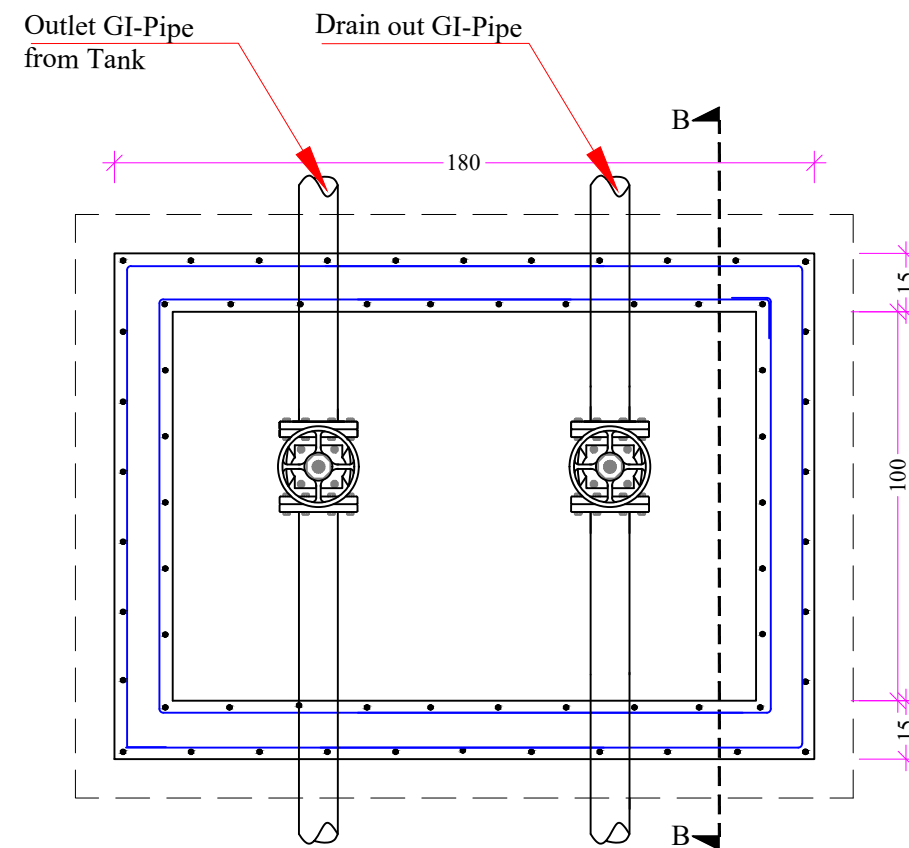
Drafted and Design BY: IMC/WASH Team  
Review and Checked by: Eng. Yousuf Mazhar  
Review and Approved by: Eng. Mohammad Yasir

Province: Nangarhar  
District: Spenghar  
Village: Hojom

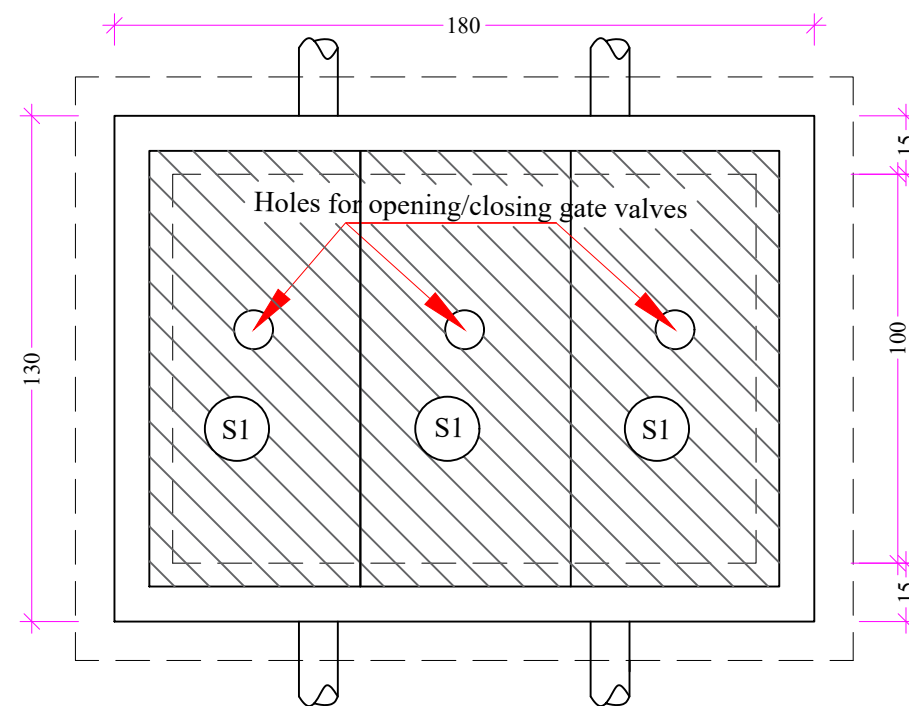
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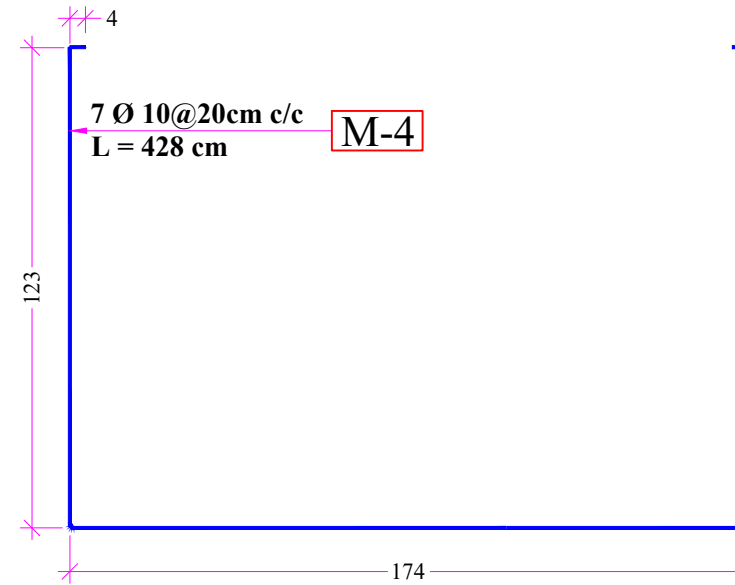




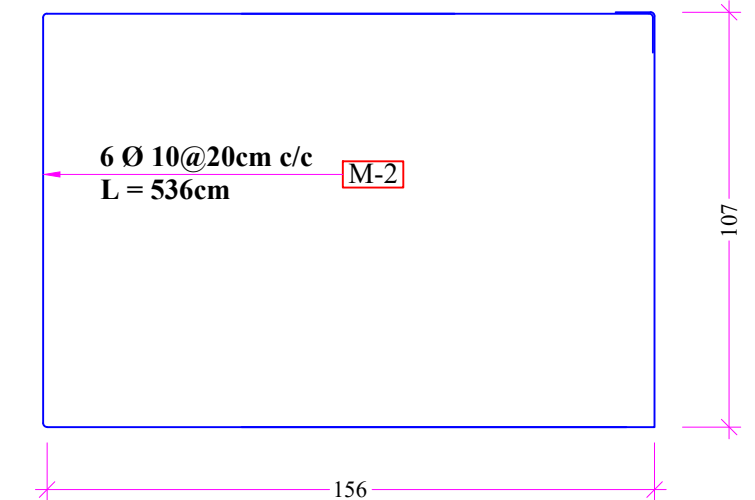
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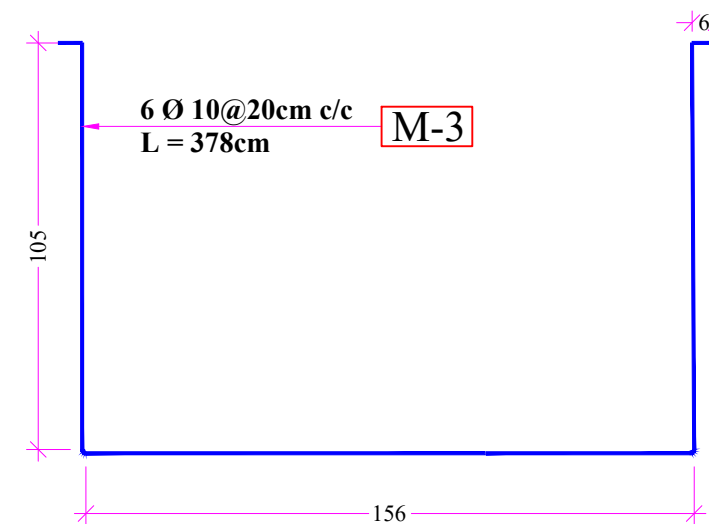
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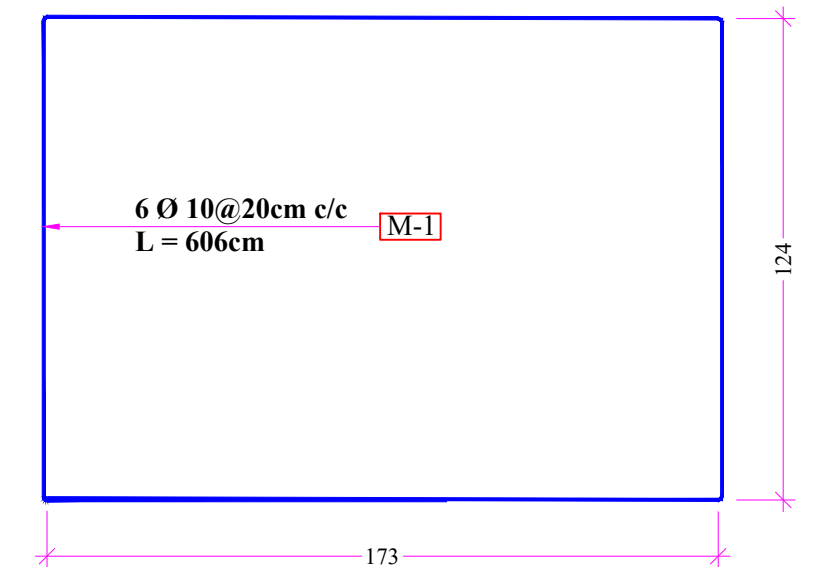
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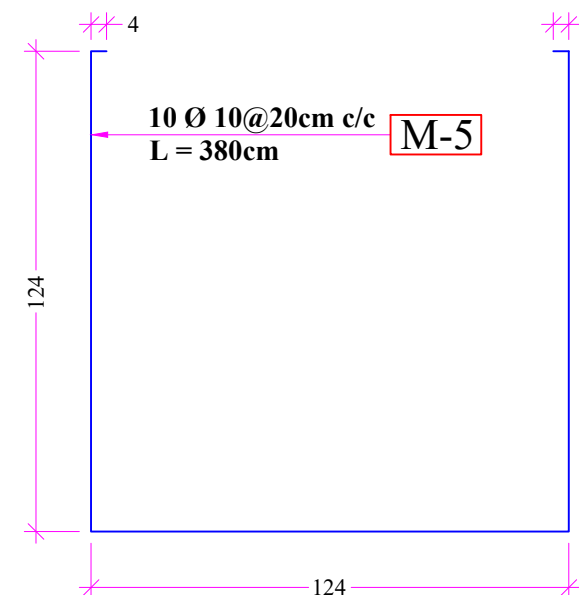
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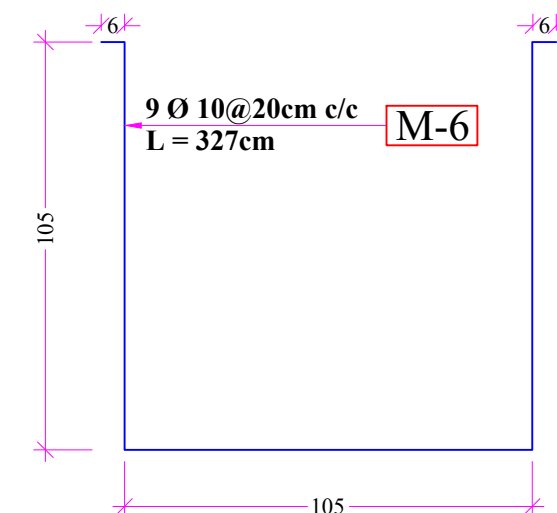
M-3



M-1



M-5



M-6

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WASH UNIT

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Review and Checked by: **Eng. Yousuf Mazhar**  
Review and Approved by: **Eng. Mohammad Yasir**

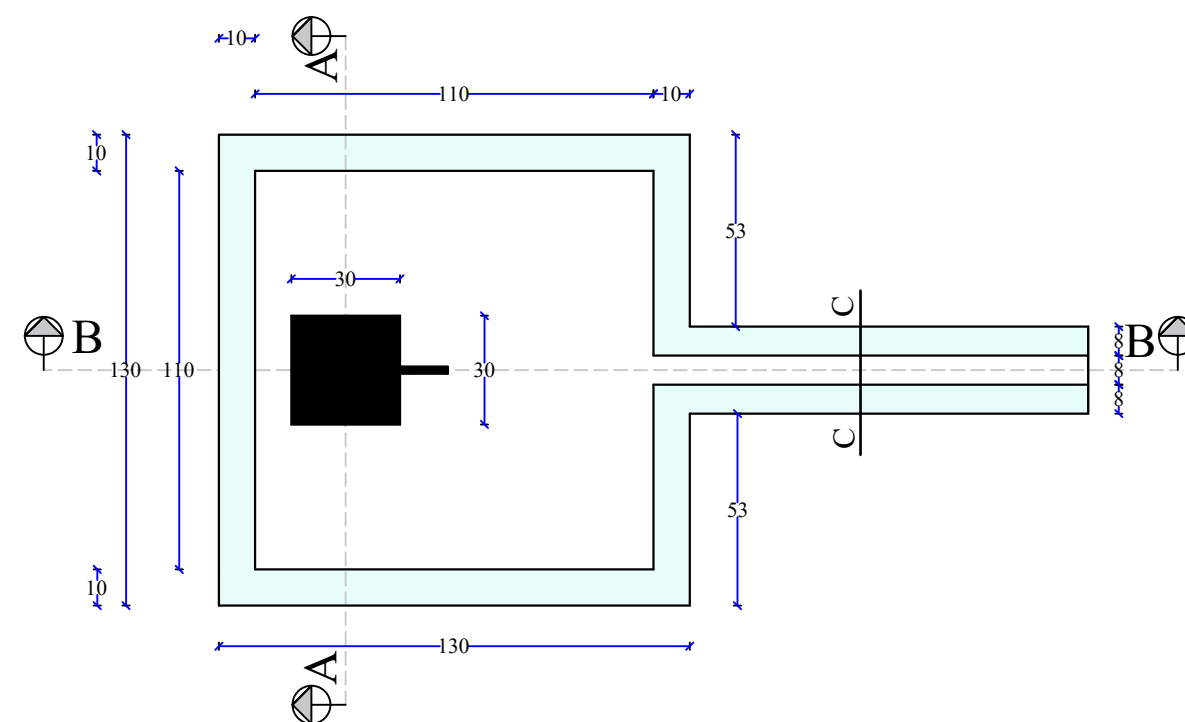
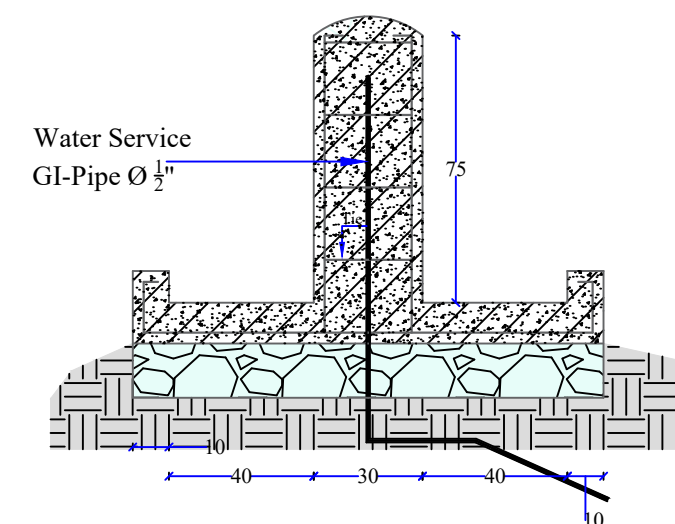
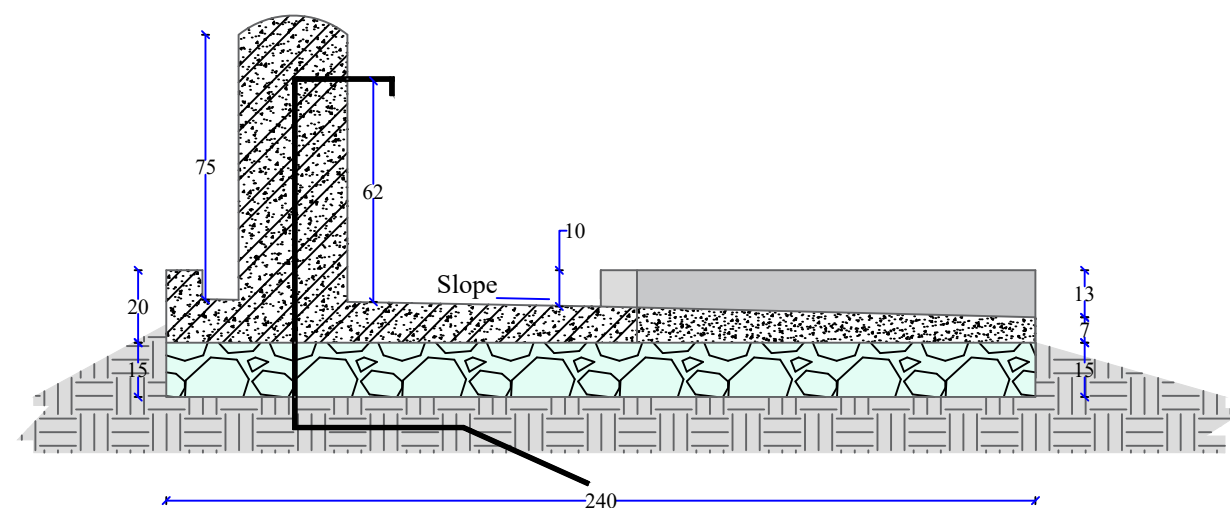
Province: **Nangarhar**  
District: **Spenghar**  
Village: **Hojom**

Date: **Sep/2022**  
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Unit: **Centimeters**

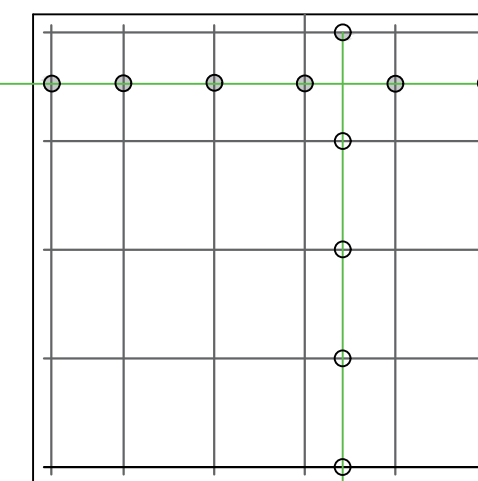
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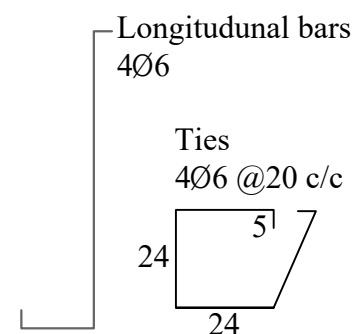
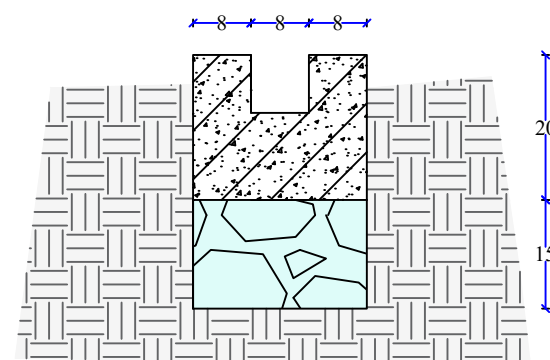




6Ø6@25c/c



5Ø6@25c/c



Tap Column reinfor...

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Review and Approved by:	Eng. Mohammad Yasir

Province	Nangarhar
District	Spenghar
Village	Hojom

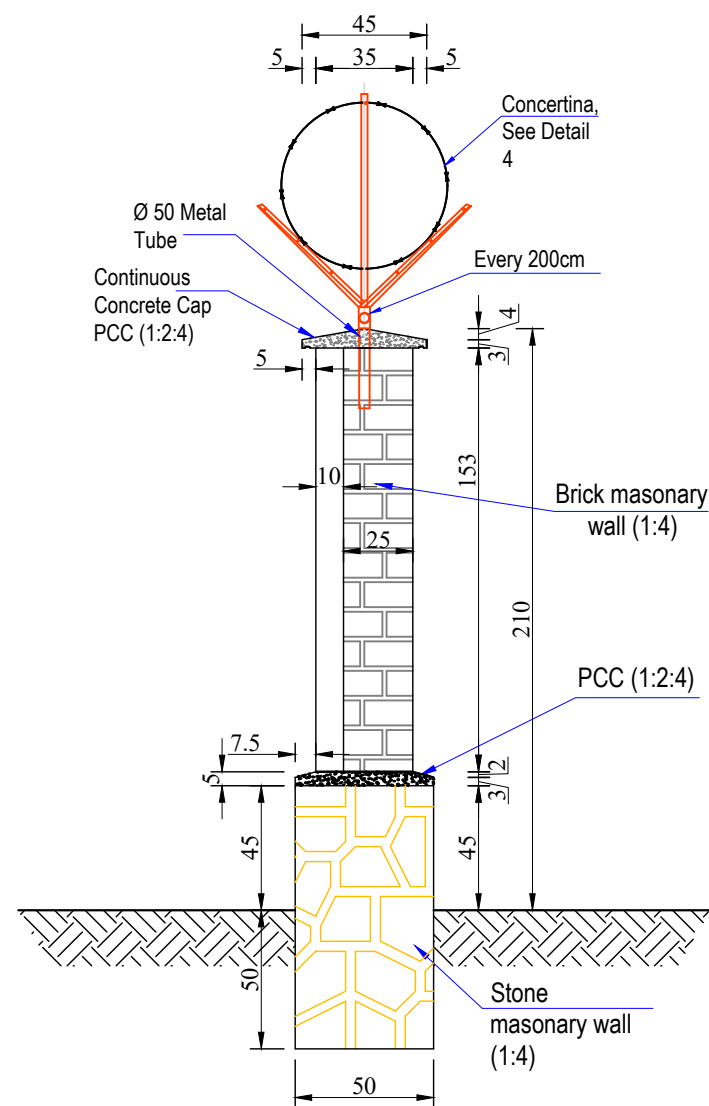
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Sheet #	-----

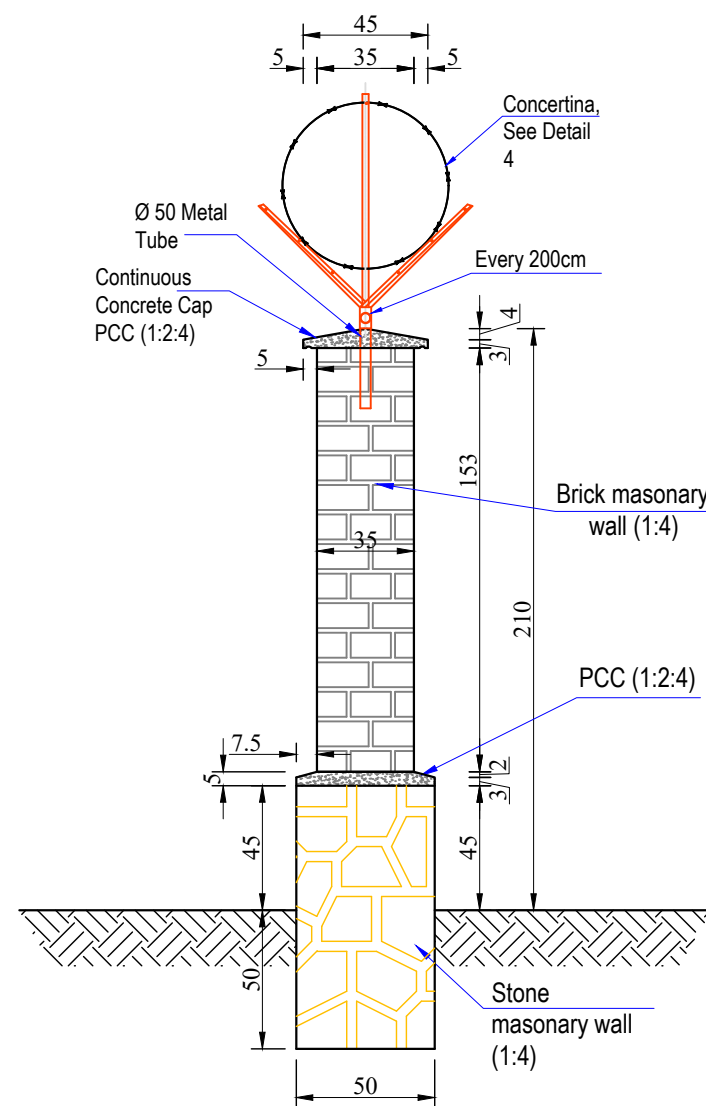




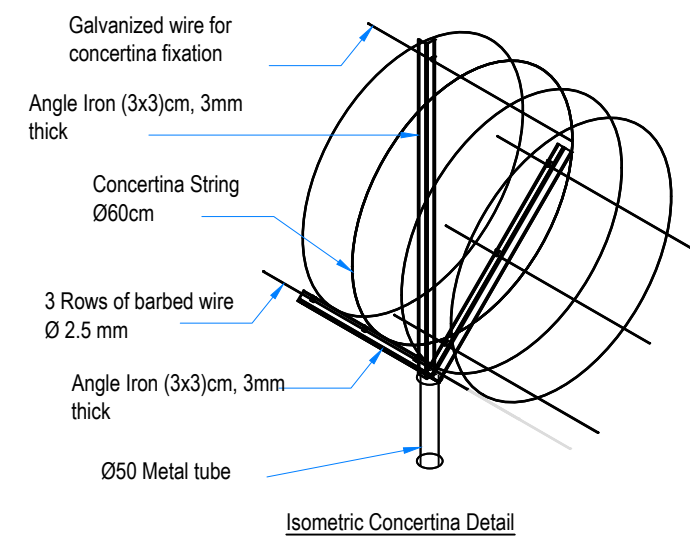
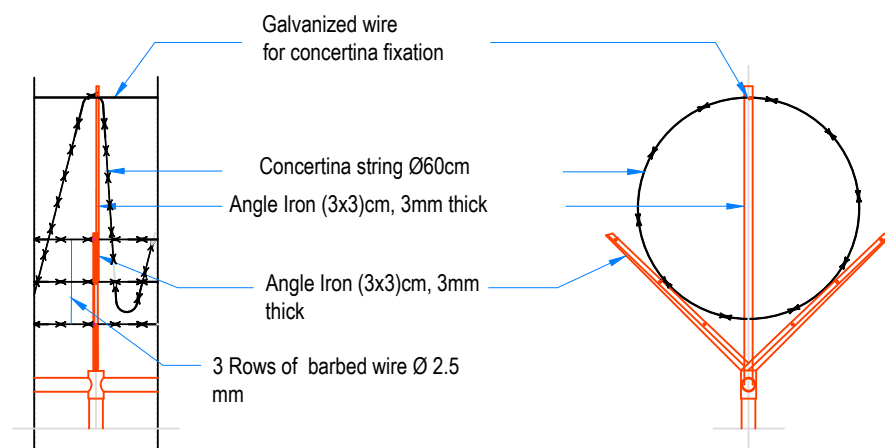
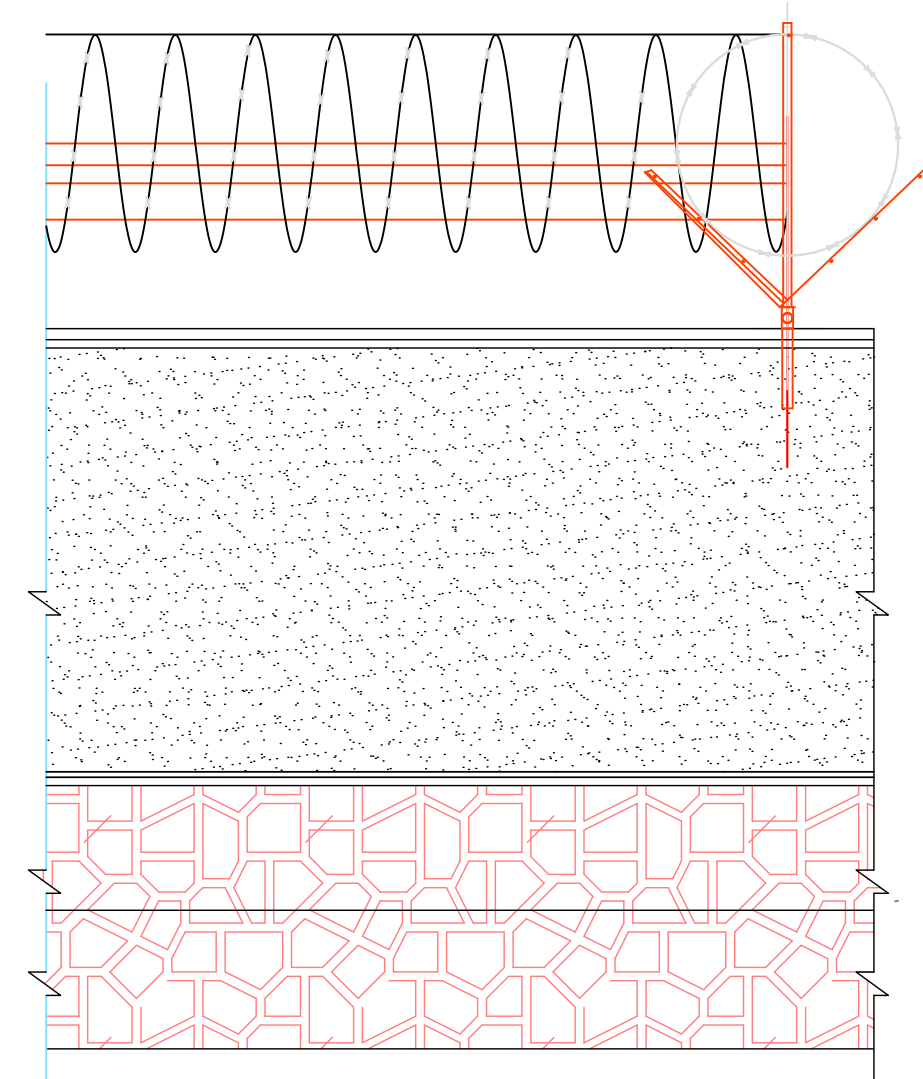




Section B-B



Section A-A



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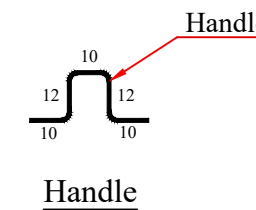
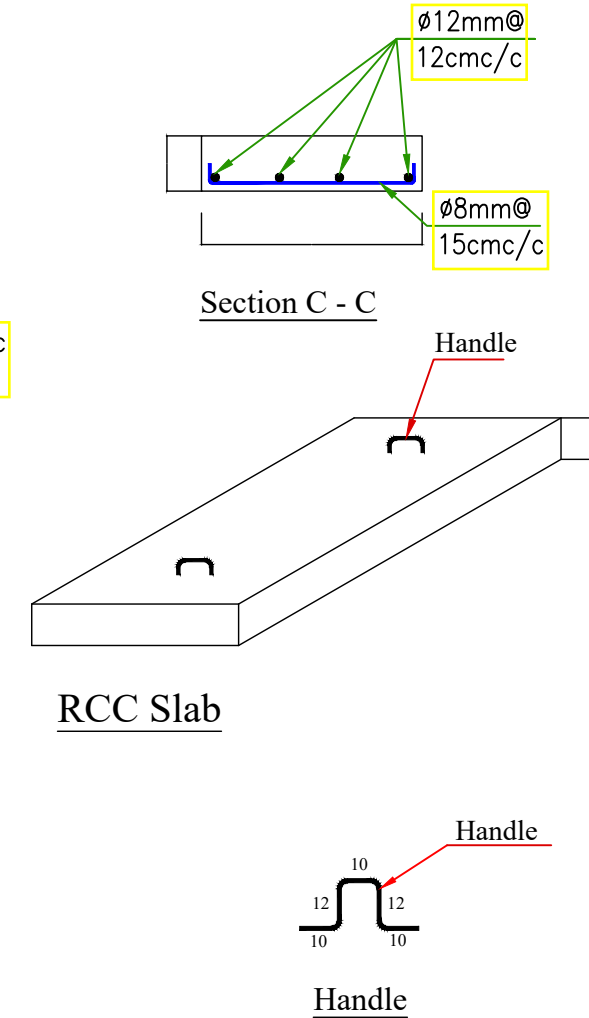
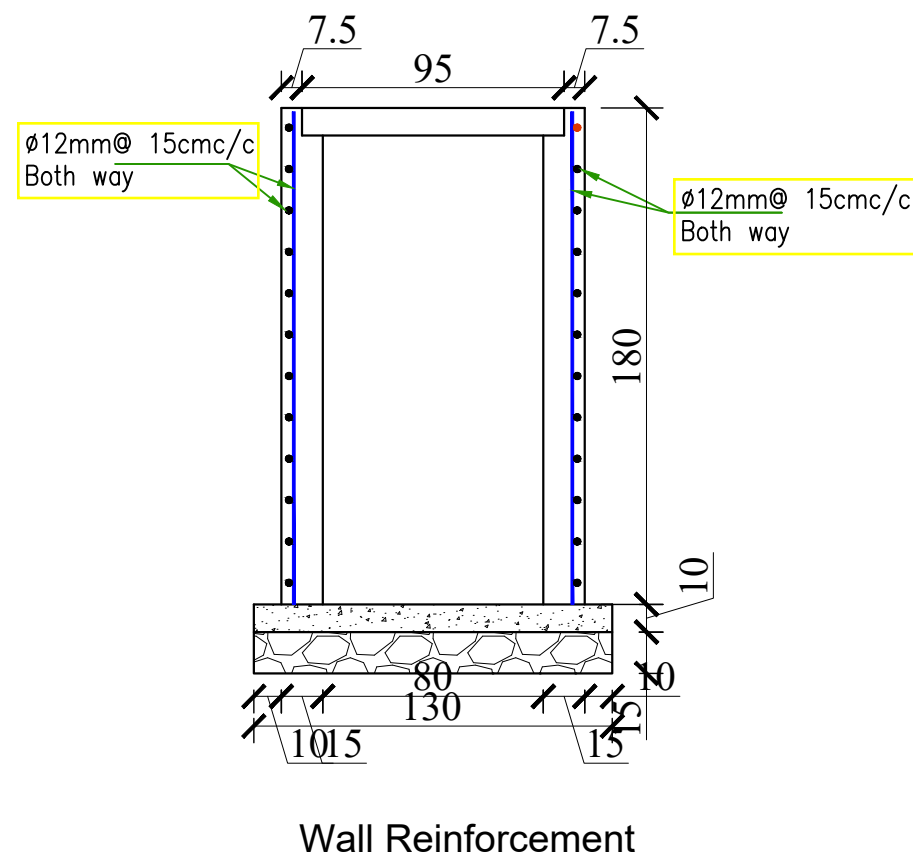
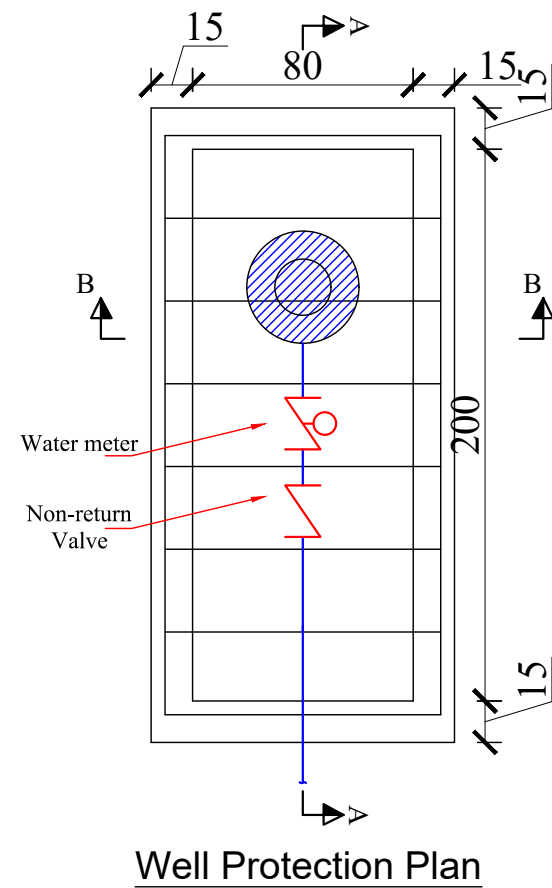
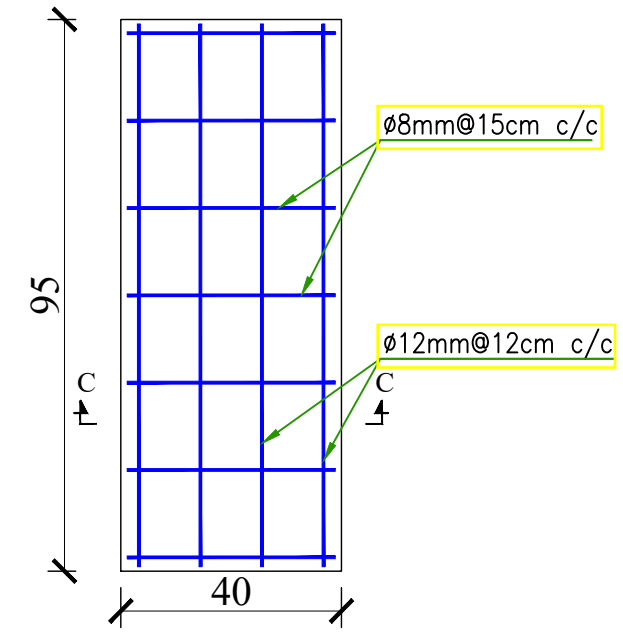
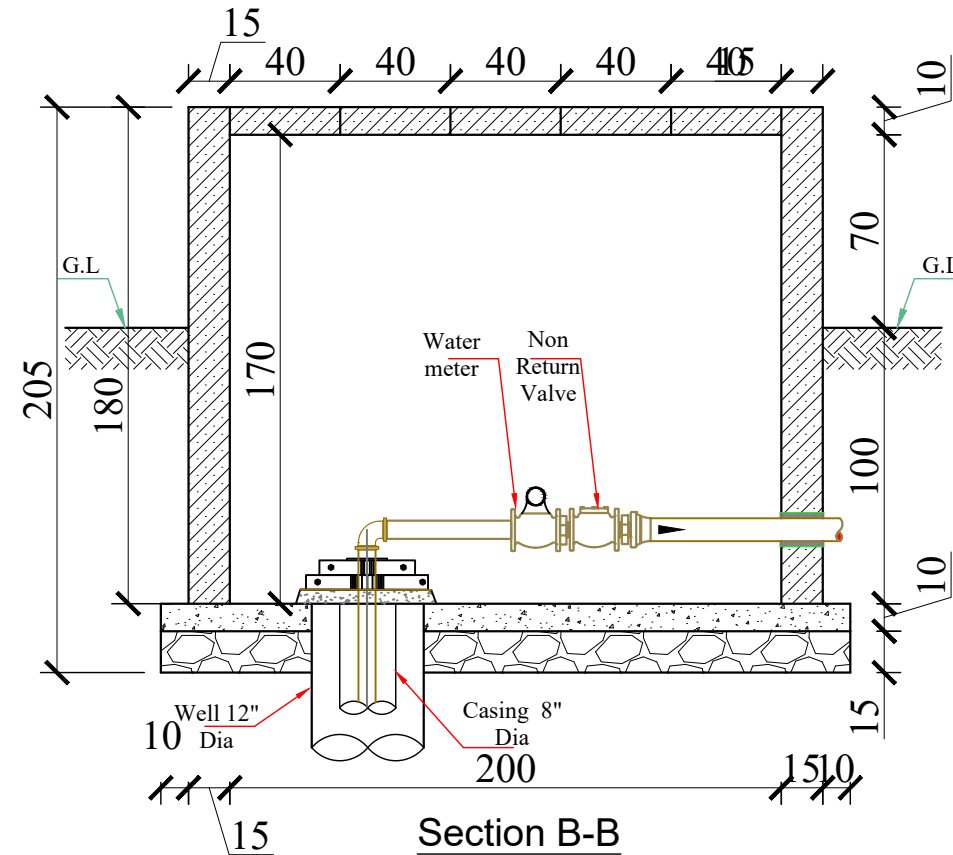
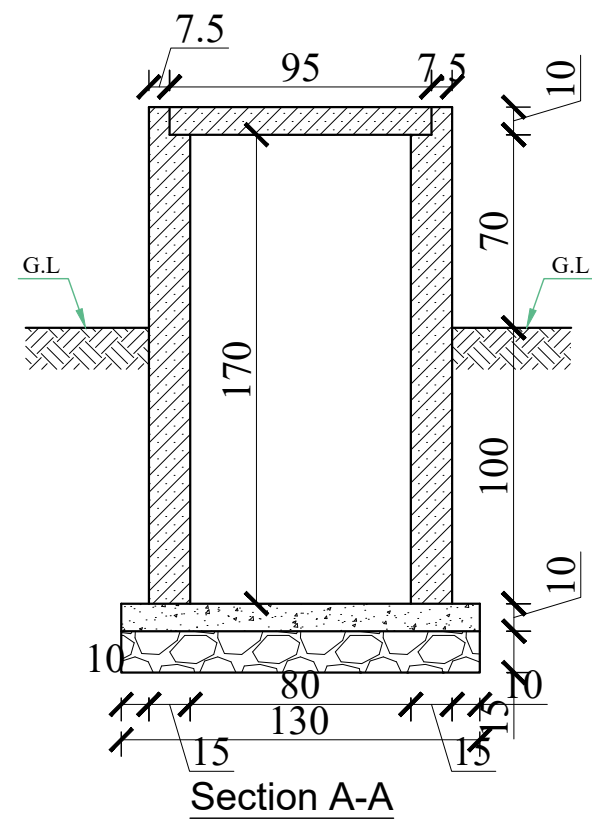
Drafted and Design BY: **IMC/WASH Team**  
Review and Checked by: **Eng. Yousuf Mazhar**  
Review and Approved by: **Eng. Mohammad Yasir**

Province: **Nangarhar**  
District: **Spenghar**  
Village: **Hojom**

Date: **Sep/2022**  
Scale: **A3-Shown**  
Unit: **Centimeters**

Drawing Title: **Boundry Wall**  
Sheet Title: **Front View+Section**  
Sheet #: **-----**





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Review and Approved by: Eng. Mohammad Yasir

Province: Nangarhar  
District: Spinghar  
Village: Hojom

Date: Sep/2022  
Scale: A3-Shown  
Unit: Centimeters

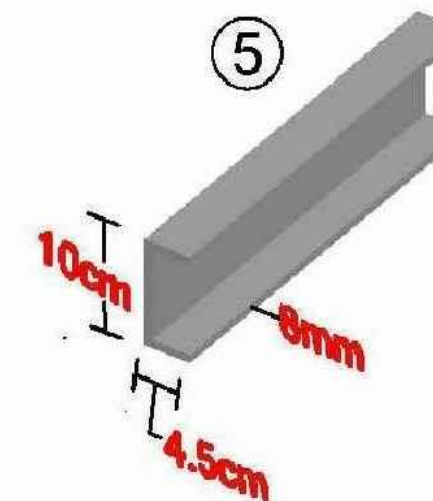
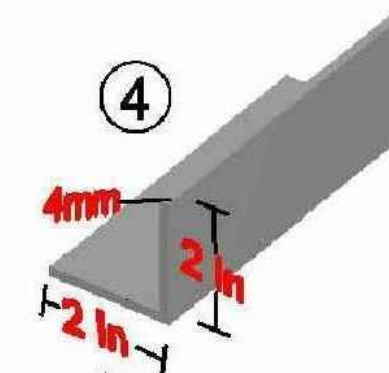
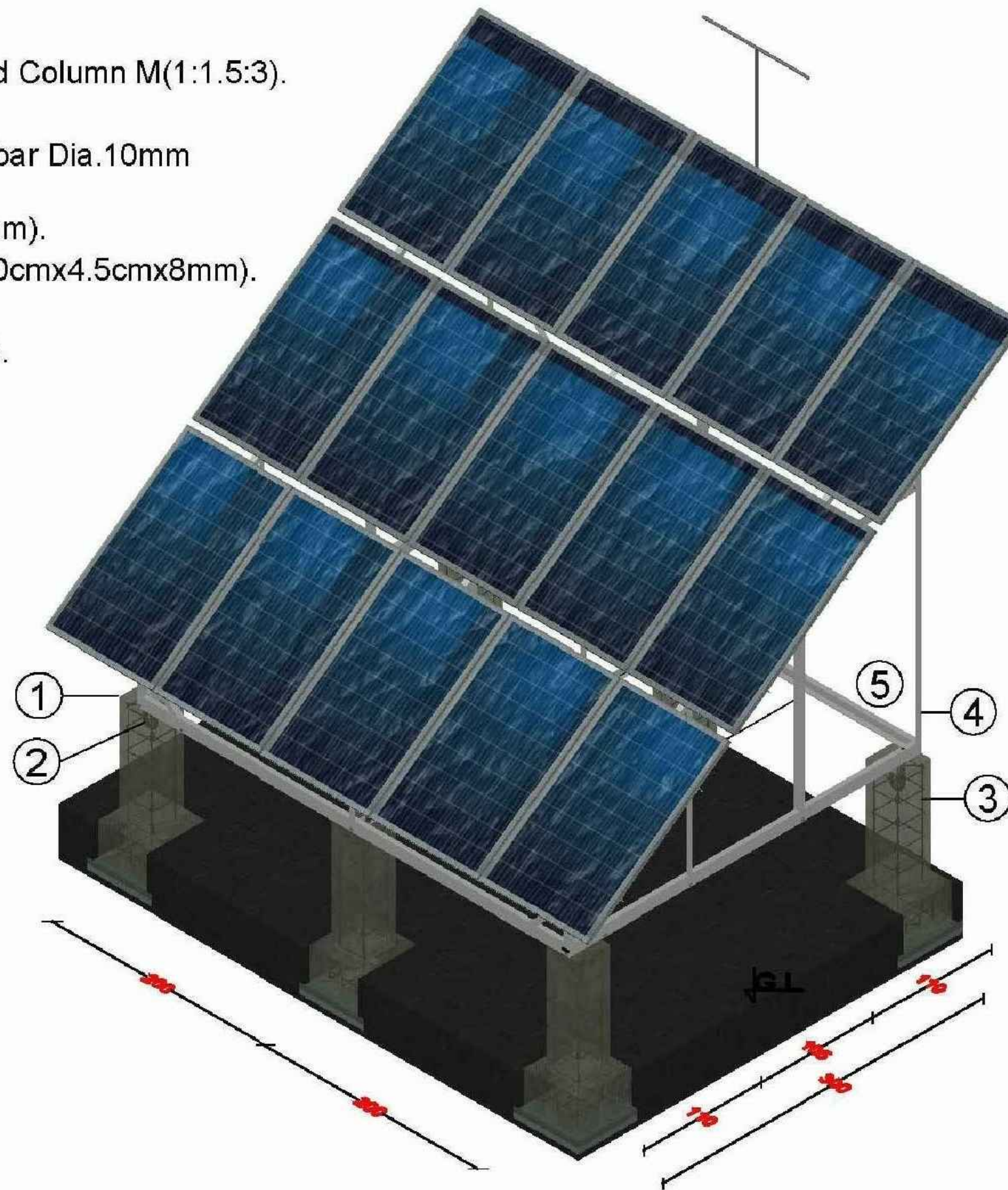
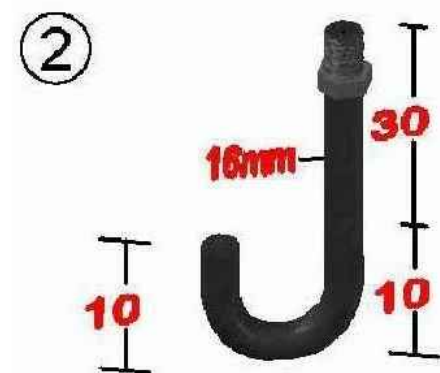
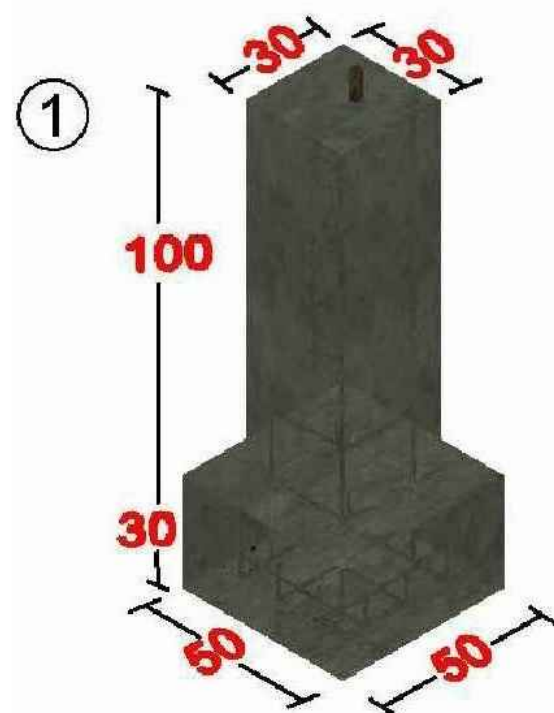
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Sheet Title: Sections and details  
Sheet #: -----





## Note:

- 1-RCC Concrete Footing and Column M(1:1.5:3).
  - 2-J-Anchor Bolt 16mm.
  - 3-Deformed Grade 60 steel bar Dia.10mm according to drawing.
  - 4-Steel angle iron (2"x2"x4mm).
  - 5-Steel girder mini. sizing (10cmx4.5cmx8mm).
- PCC M(1:2:4).  
Foundation Compacted 95%.  
Potable water used.



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PROGRAM DEPARTMENT  
WASH UNIT

Drafted and Design BY: IMC/WASH Team  
Review and Checked by: Eng. Yousuf Mazhar  
Review and Approved by: Eng. Mohammad Yasir

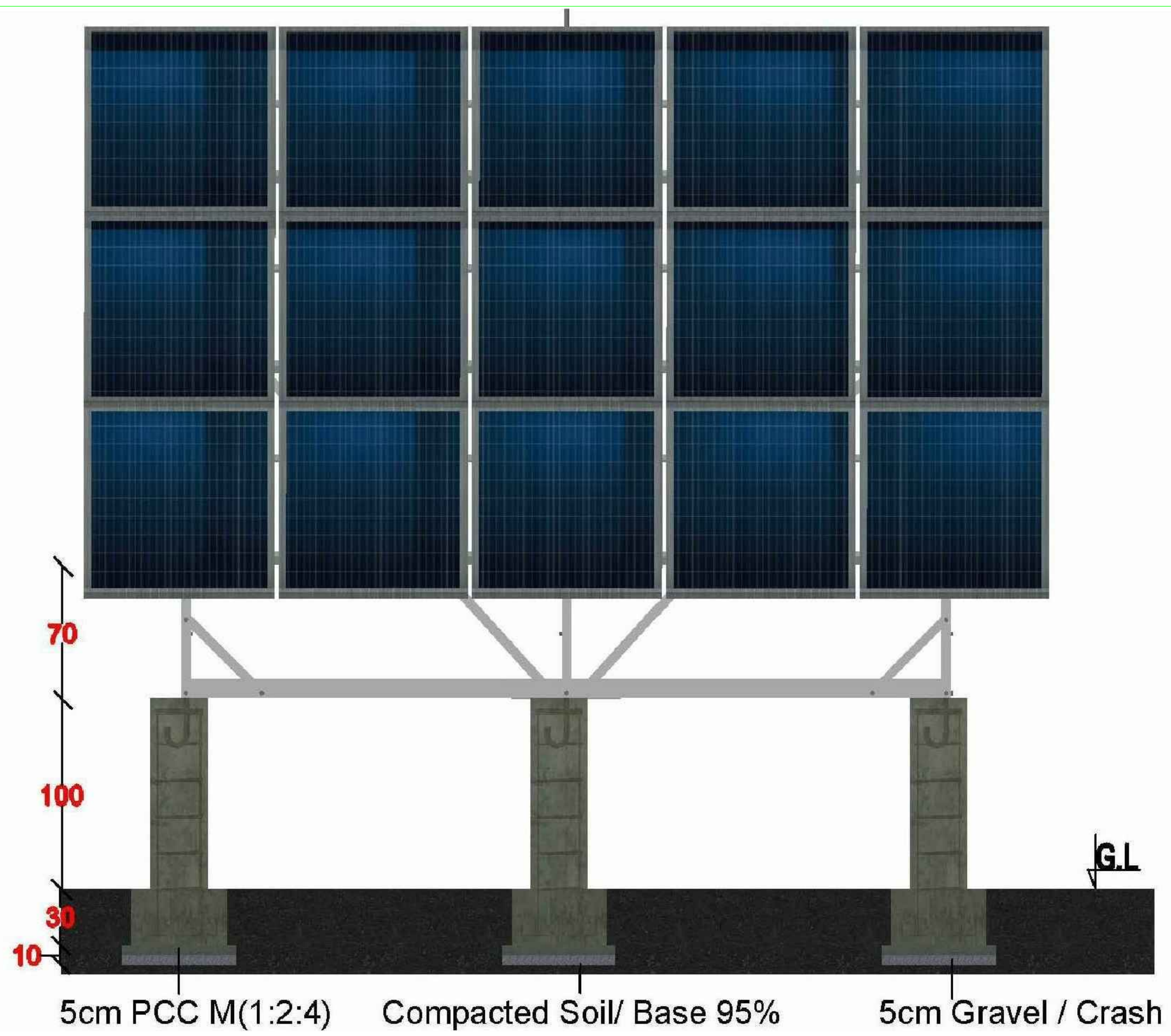
Province: Nangarhar  
District: Spinghar  
Village: Hojom

Date: Sep/2022  
Scale: A3-Shown  
Unit: Centimeters

Drawing Title: Solar Frame  
Sheet Title: Frame 3 D  
Sheet #: -----







Funded by:	USAID/BHA
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

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Review and Approved by:	Eng. Mohammad Yasir

Province	Nangarhar
District	Spinghar
Village	Hojom

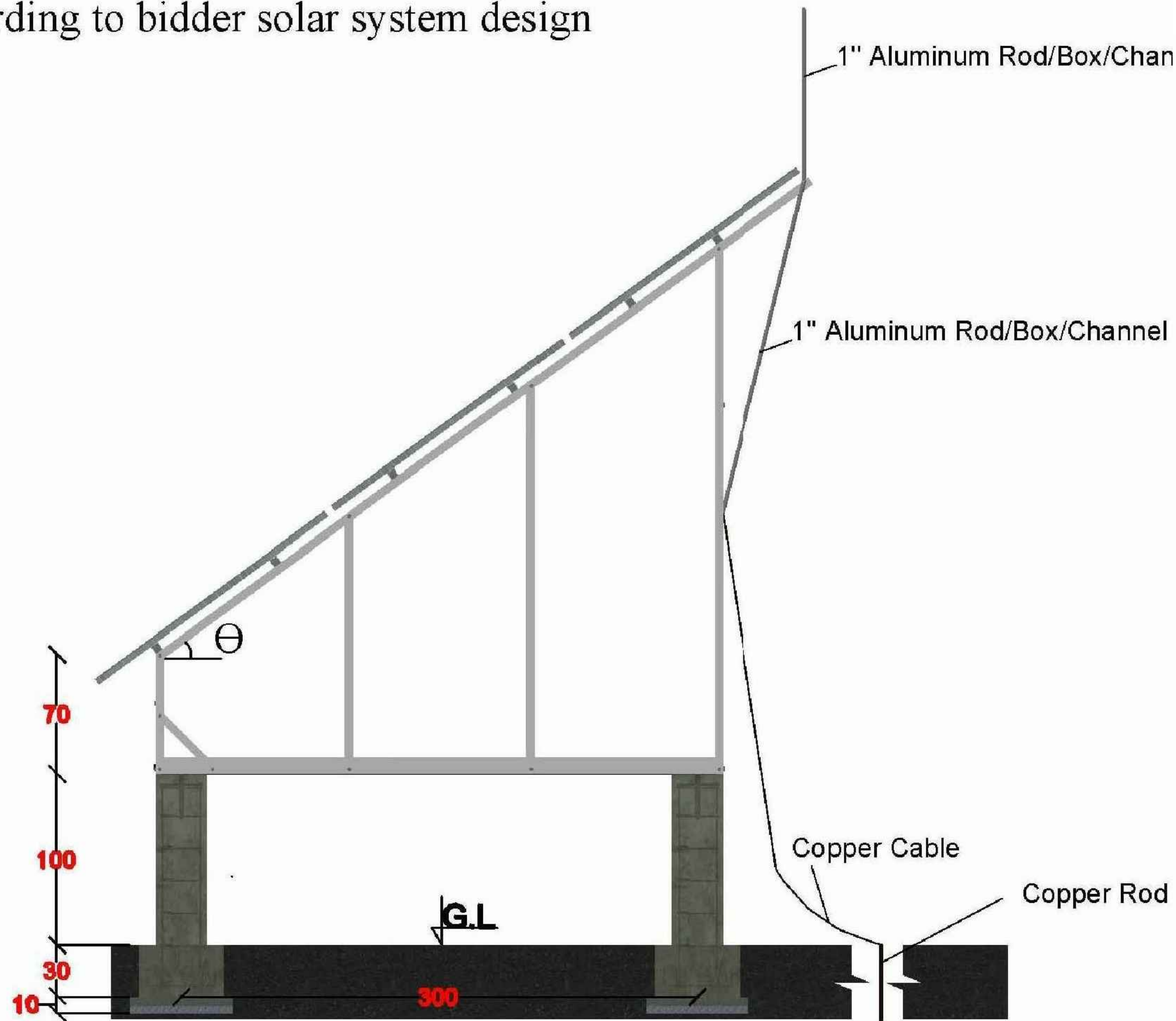
Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Solar Frame
Sheet Title	Fron View
Sheet #	-----





Angle  $\Theta$  = According to bidder solar system design



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INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

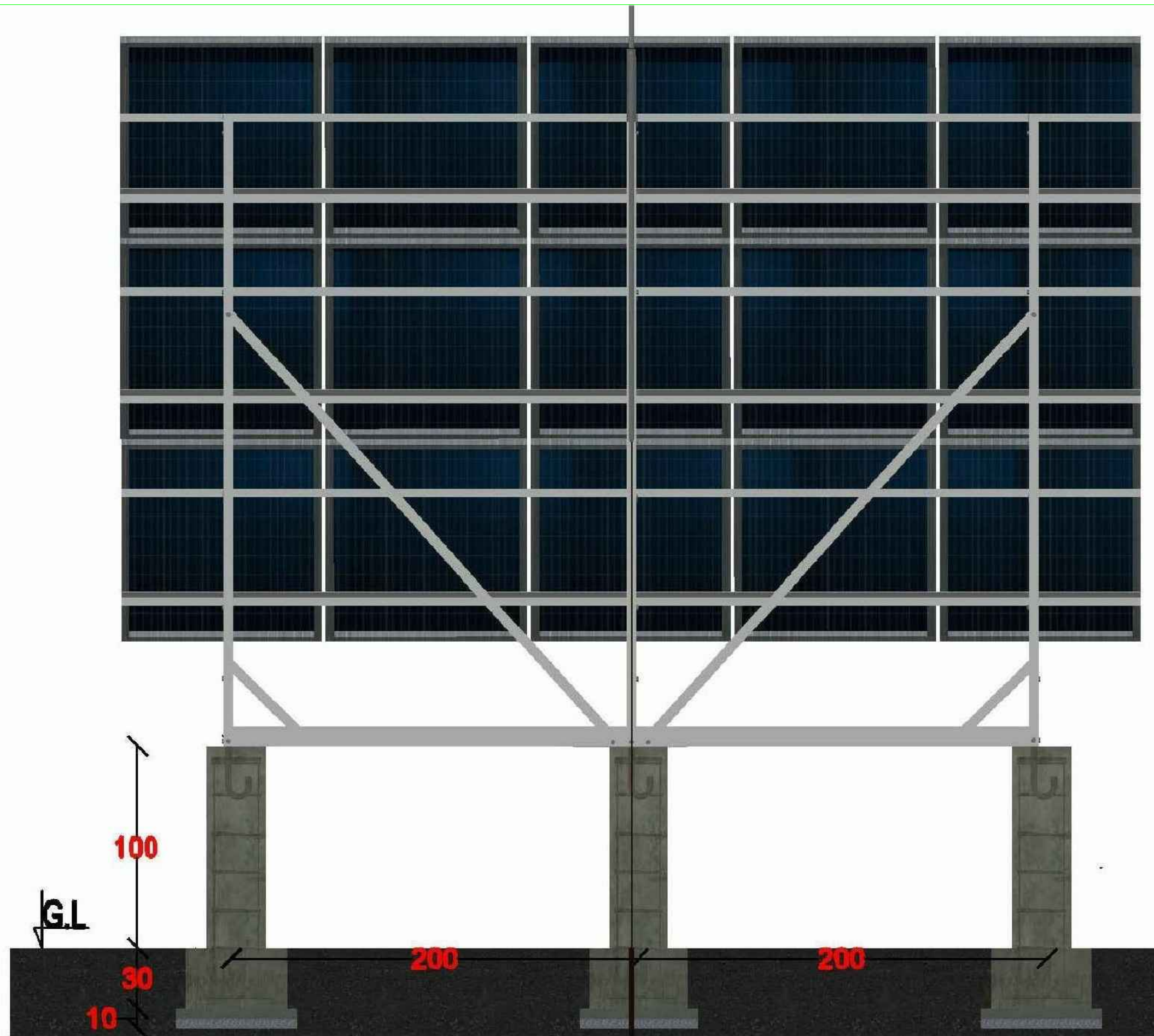
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Province	Nangarhar
District	Spinghar
Village	Hojom

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Solar Frame
Sheet Title	Side View
Sheet #	-----





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INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

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Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Solar Frame
Sheet Title	Back View
Sheet #	-----

