

SARTIK SHC DRAWINGS



AS- BUILT & NEW
STRUCTURES



HERAT, FARSI, AFGHANISTAN

Identified Gaps for Existing WASH Services in Sartik SHC:

- The lack of Wash drain in all the rooms and corridors of the clinic
- Absence of hand washing sink inside the corridors of Building and clinic area.
- Absence of hot water pipes for all clinic rooms (only cold water is connected to the rooms; hot water pipes are not considered)
- Absence of a standard water supply system (an existing water well with a diameter of 12 inches and a depth of 40 meters without a casing,
- Lack of tiles and ceramics for the floors of the rooms and corridors inside the Building (only the delivery room has tiles). The floors of the rooms are PCC concrete, which is not suitable for washing.
- Necessity to plastic water Tank (the existing water tank volume is not enough) and insulation of the existing storage
- Need to build a sewage system (septic tank) for the clinic (the existing absorption well is 3 meters deep and one meter in diameter, which is completely filled and has no place, the waste material has moved to the clinic area)
- The need to provide garbage containers inside the Clinic building
- The need to create a ramp for the entrance gate of latrines facilities of men's and women
- Lack of public hand washing sink inside the clinic area
- Absence of hand-washing sink inside the men's and women Latrine.
- Absence of toilet and bathroom in the delivery room

Solution:

- -Establishment of the HCF plumbing system like; plumbing the hot and cold water from the water sources to the sinks and flash tanks and directing the waste water to septic tank.
- -Construction of one mix flash toilets & bath with all needed material for delivery room in the nutrition corridor -Installation of the sinks and Floor Drain for all clinic rooms and hall according to drawing.
- construction one double toile for male patients
- construction a septic tank for sewerage system of clinic
- - digging pit for septic tank and installation of RCC rings for drain pit of septic tank
- -installation one 200liters sun water boiler, one 500liters water tank with stand for sun water boiler and one 2000liter water tanks for clinic
- installation of ceramic, cornice and tiles inside the clinic and toilets & baths according to drawing
- change the location of delivery room and installation tile inside the delivery room.
- -installation lights in clinic rooms and toilets
- -construction one public station tap in clinic area for location and details (drawing)
- -installation (sinks, WCs, and flash-tank,railing) according to drawing

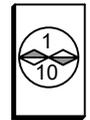
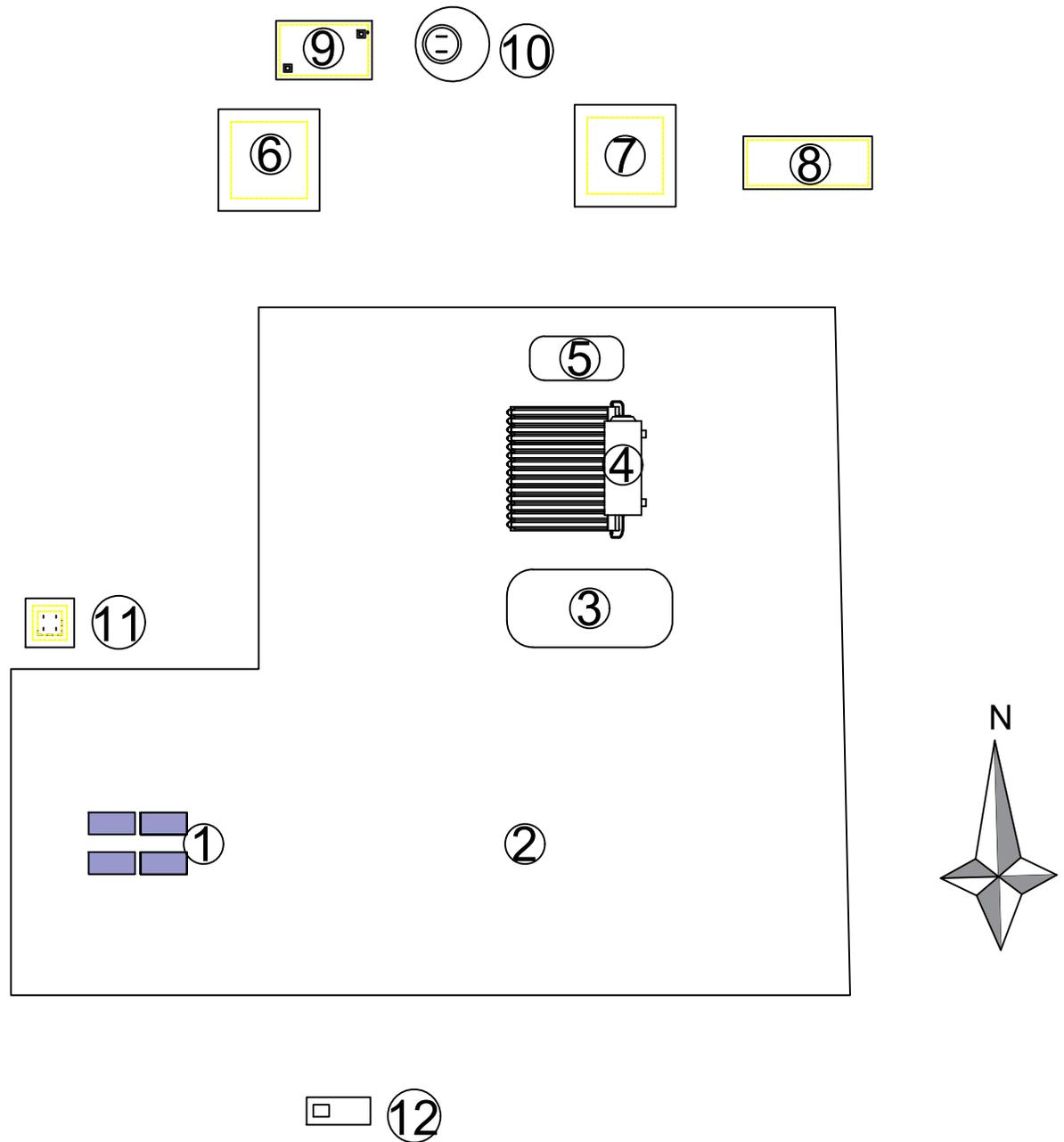
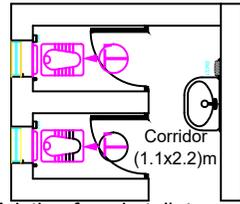
	TASK & RESPONSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Herat	SCALE	-	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	Zalal, Farjad	29-07-2024		DISTRICT	Farsi	START DATE	-	DRAWING TYPE	cover page
	DRAWN BY	M.Ismael	05-08-2024		HCF NAME	Sartik SHC	END DATE	-	E	63° 26' 16.005"
	REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	33° 49' 39.513"
	APPROVED BY	Simon Wankuru	-							

TABLE OF CONTENT	
1	New power solar system for water pump
2	Main clinic building
3	New 2000 liter-horizontal water tank (high-density polyethylene 5 layer Tank)
4	New sun water Boiler 200lit
5	New 500 liter-horizontal water tank (high-density polyethylene 5 layer Tank) with stand for sun boiler
6	New double toilet for patient (male)
7	Existing double toilet for patient (female) need repairing
8	Existed Waste management
9	New septic tank
10	New drain dug well for septic tank
11	Existing bore well with depth of 40 m without any causing need to install PVC causing pipe Class C
12	New public hand washing station



TASK & RESPONSIBILITIES		DATE	NO OF PAGES	PROVINCE	Herat	SCALE	1:200	PROJECT SUB TITLE	Major maintenance of HCF-WASH sector
SURVEYED BY	Zalal, Farjad	29-07-2024		DISTRICT	Farsi	START DATE	----	DRAWING TYPE	Site plan
DRAWN BY	M.ismael	05-08-2024		HCF NAME	Sartik SHC	END DATE	----	E	63° 26' 16.005"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	33° 49' 39.513"
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Existing Female toilet 2No(0.9x1.6)

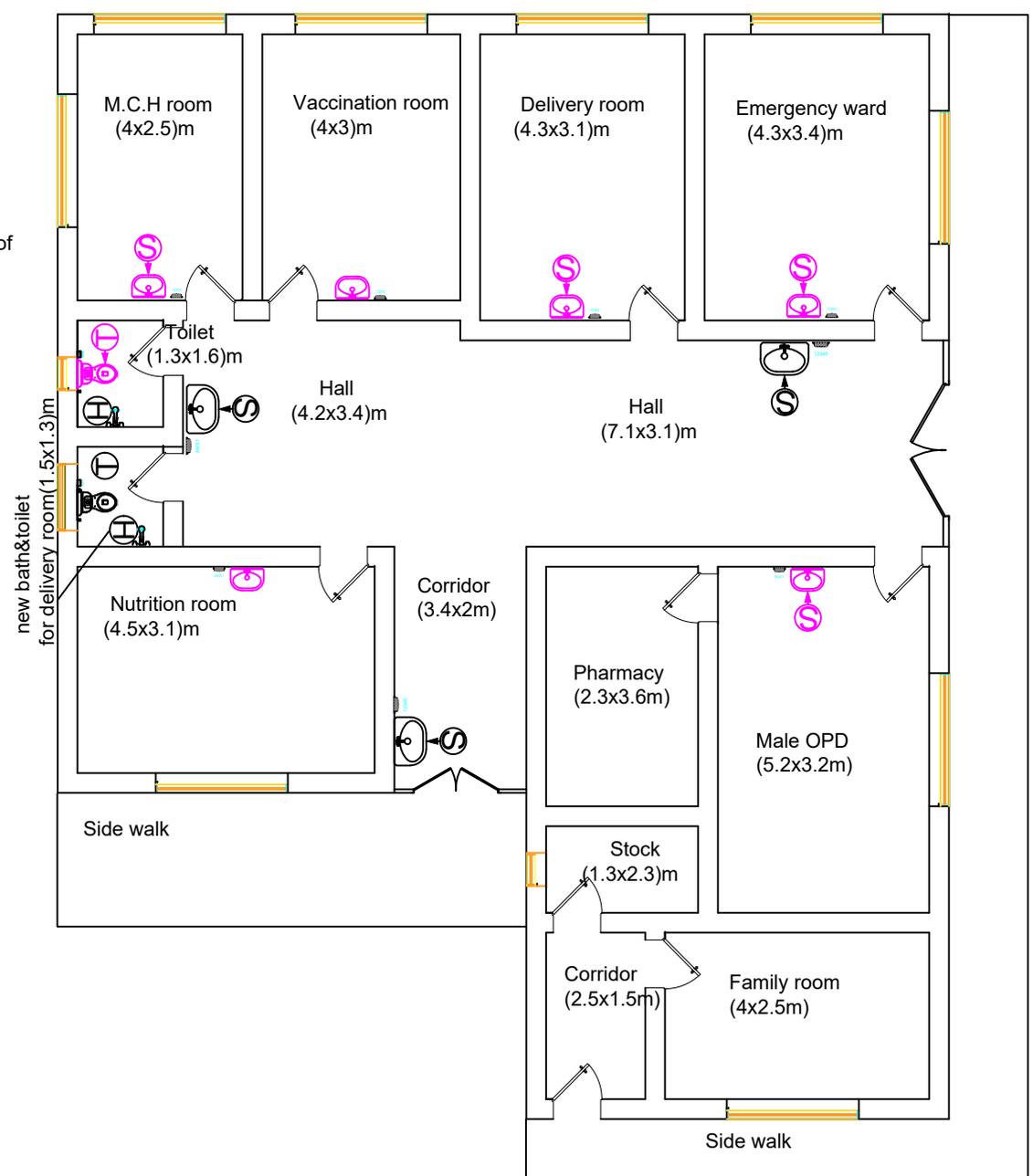
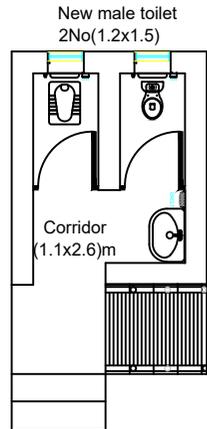


Existing female toilets
we will remove the partition wall of corridor to make one corridor for both toilet and install one stand WC for disabled patients

TABLE OF CONTENT FOR BUILDING PLAN	
S	New hand washing sink complete sit with mirror
S, T, T'	Existing hand washing Sink complete sit with mirror and WC(all sink and WC with pink color already exist in the clinic)
T	Stand WC washbasin
T'	Sitting WC washbasin
H	New head shower complete sit

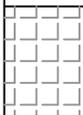
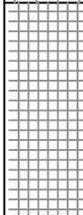
-We well change the location of delivery room because it is next to street most of patients did not feel comfortable, so according to suggestion of patients and clinic staff it should be in location of nutrition room, also there is space to construct a toilet & bath for delivery room

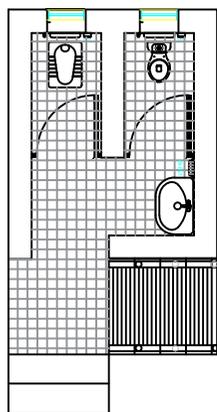
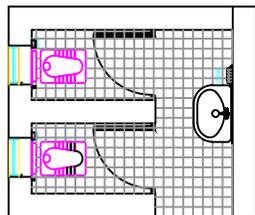
- The sinks must be installed which is numbered in the plan by S in total there are 11 sink in the drawing which 6 of them are permanently installed and we need to install 5 remained hand washing sinks in the clinic which is highlighted with white color also three stand WC, one setting WC and two set head shower need need to install



TASK & RESPONSIBILITIES		DATE	NO OF PAGES	PROVINCE	Herat	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	Zalal, Farjad	29-07-2024			DISTRICT	Farsi	START DATE	----	DRAWING TYPE
DRAWN BY	M.ismael	05-08-2024	HCF NAME		Sartik SHC	END DATE	----	E	63° 26' 16.005"
REVIEWED BY	Farid Ahmad Qaderi	-	HCF TYPE		SHC	PROJECT TITLE	FCDO-DAWAM	N	33° 49' 39.513"
APPROVED BY	Simon Wankuru	-							

TABLE OF CONTENT FOR
Tile and ceramic PLAN

	New ceramic planned area
	New Tile planned area



-The ceramic and tile hatched areas are under plan to be install ceramic and tile

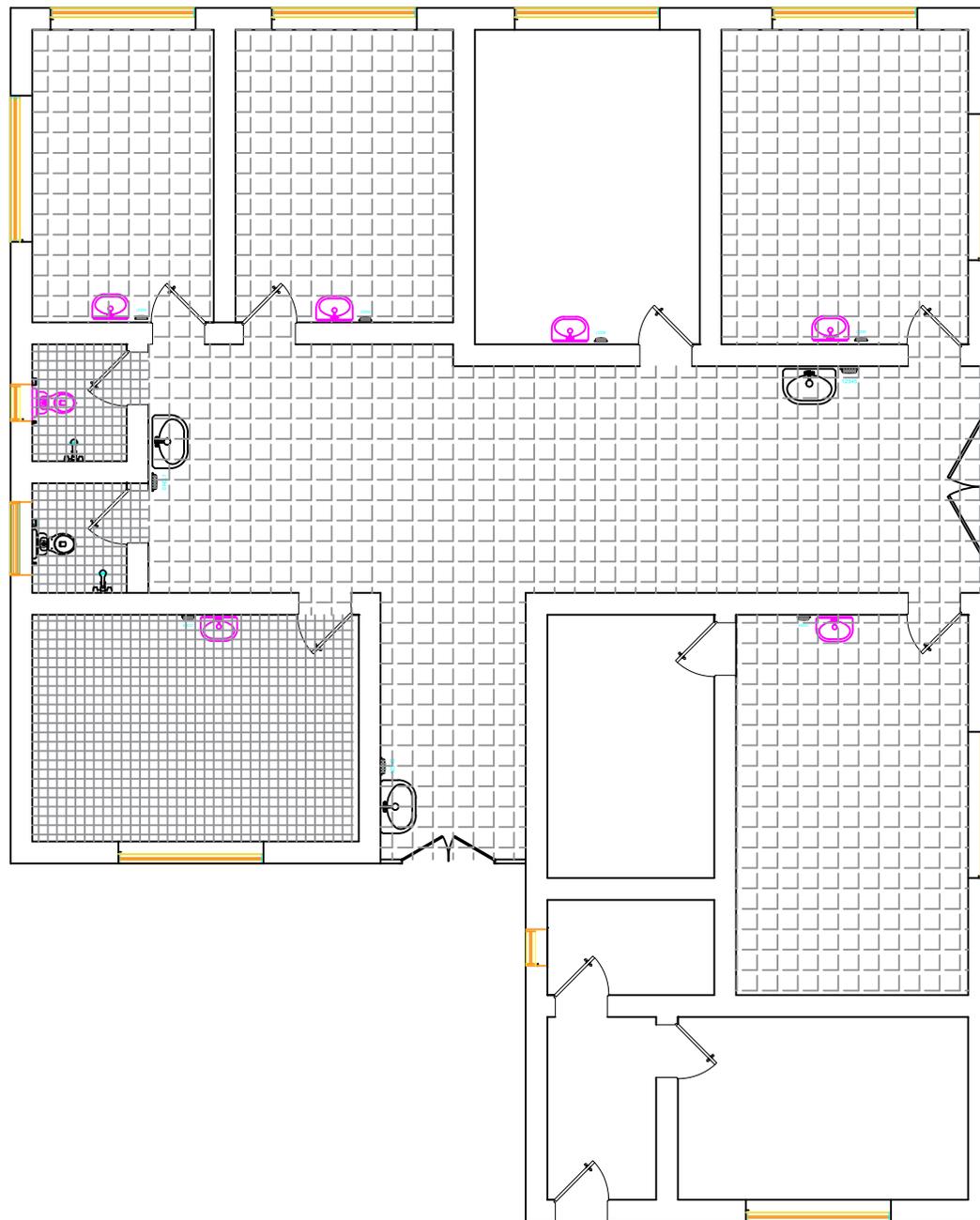
-The HCF rooms & corridor floors are made from PCC and does have floor drain it's problematic during washing we planed to install ceramic tiles in clinic rooms and corridor for easy cleaning and washing purpose

-The walls of all baths(mix bath toilet) areas will be tiled up to a height of 200 cm

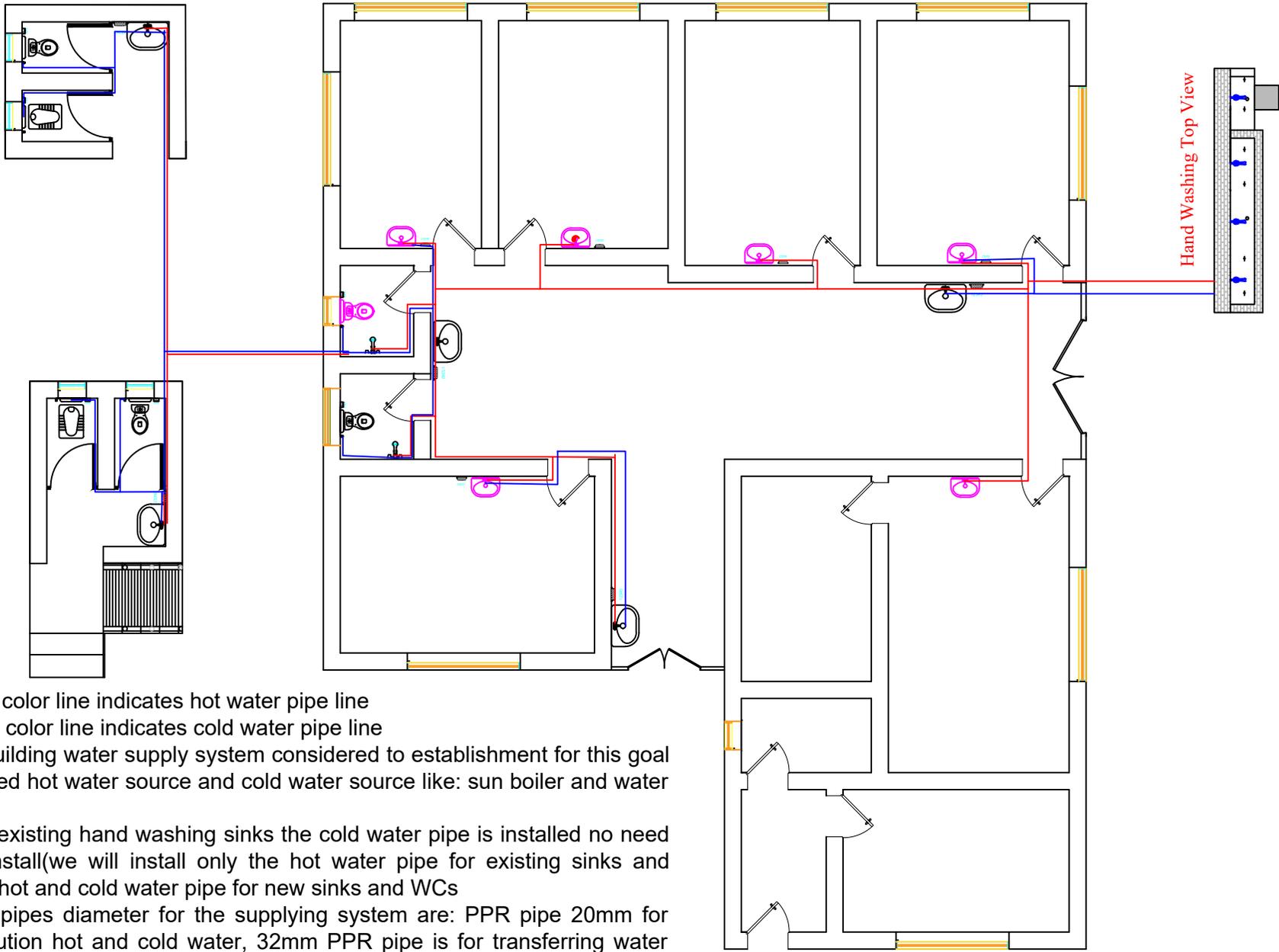
-The walls of all male toilets will be tiled up to a height of 100 cm.

-The walls of delivery room will be tiled up to height of 120cm

-The walls of tap-station will cover with tile



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DRAWN BY	M.ismael	05-08-2024		HCF NAME	Sartik SHC	END DATE	----	E	63° 26' 16.005"
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Note:

- Red color line indicates hot water pipe line
- Blue color line indicates cold water pipe line

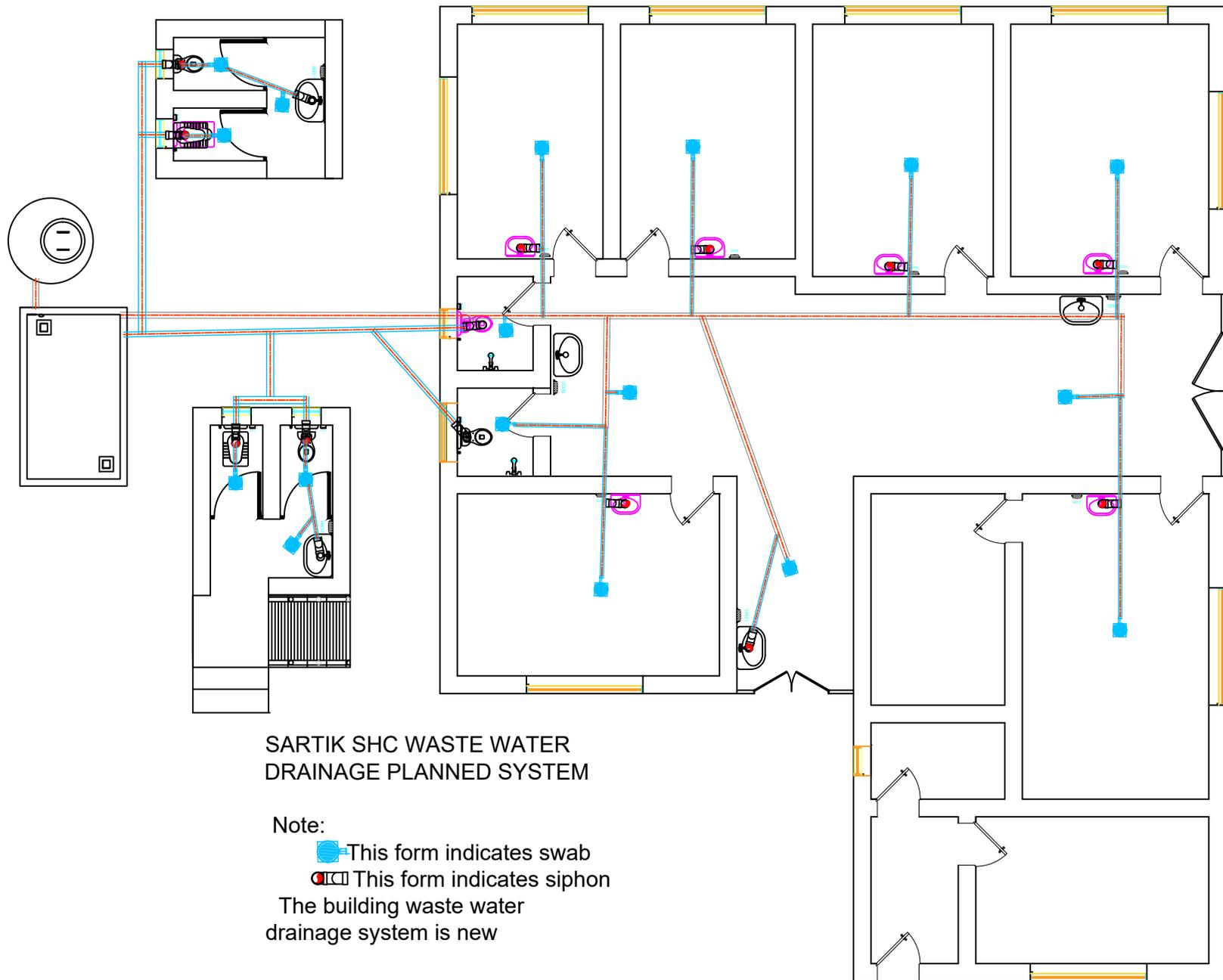
The building water supply system considered to establishment for this goal we need hot water source and cold water source like: sun boiler and water tanker

-in all existing hand washing sinks the cold water pipe is installed no need to reinstall(we will install only the hot water pipe for existing sinks and install hot and cold water pipe for new sinks and WCs

- The pipes diameter for the supplying system are: PPR pipe 20mm for distribution hot and cold water, 32mm PPR pipe is for transferring water from sources to the distribution pipes for more detail search in BoQ

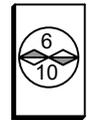


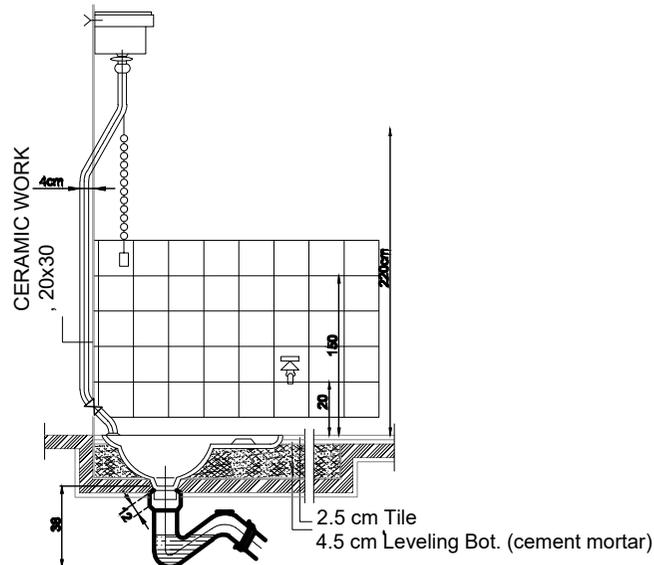
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	DRAWN BY	M.ismael	05-08-2024		HCF NAME	Sartik SHC	END DATE	----	E	63° 26' 16.005"
	REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	33° 49' 39.513"
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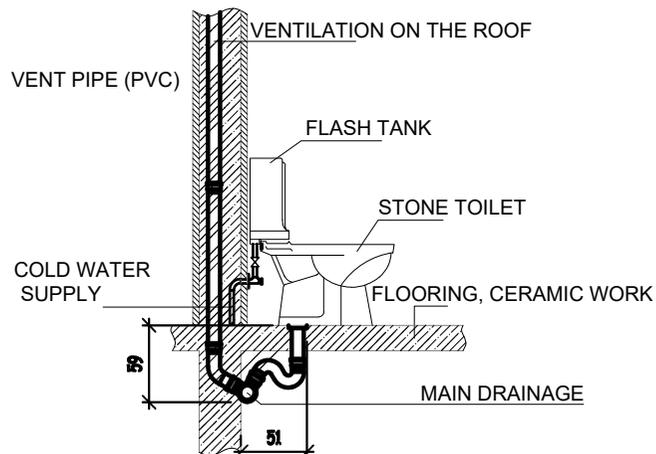
SARTIK SHC WASTE WATER DRAINAGE PLANNED SYSTEM

Note:
■ This form indicates swab
● This form indicates siphon
 The building waste water drainage system is new

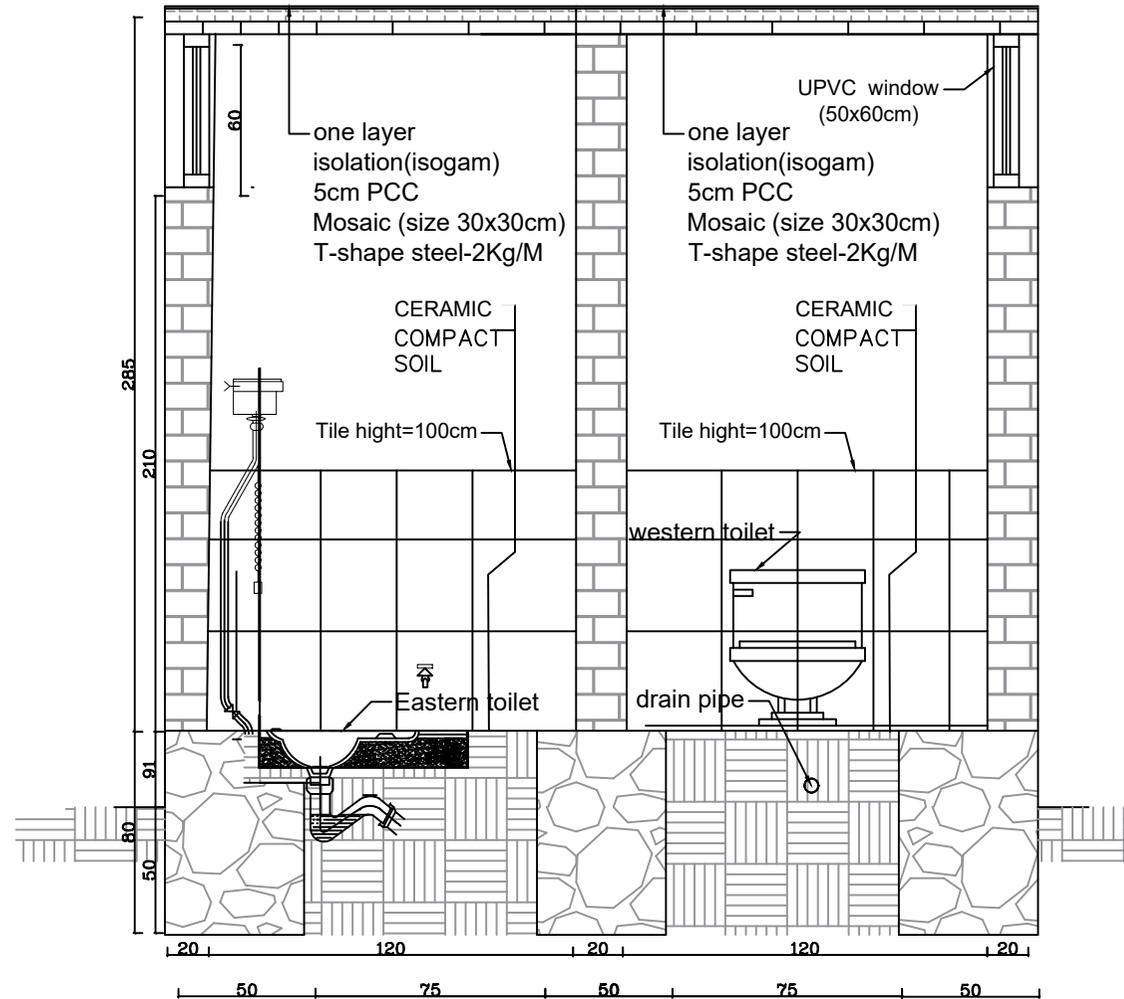
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	SURVEYED BY	Zalal, Farjad	29-07-2024		DISTRICT	Farsi	START DATE	----	DRAWING TYPE	WASTE WATER DRAINAGE
	DRAWN BY	M.ismael	05-08-2024		HCF NAME	Sartik SHC	END DATE	----	E	63° 26' 16.005"
	REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	33° 49' 39.513"
	APPROVED BY	Simon Wankuru	-							



**DIMENSION AND CONNECTION DETAILS
PLACEMENT OF EASTERN TOILETS**



TYPICAL TOILET INSTALLATION

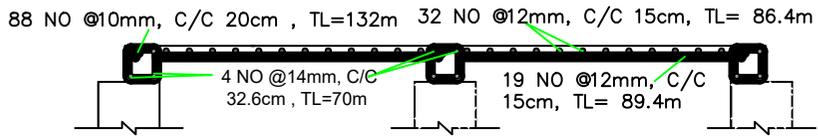


Section for double toilet for male

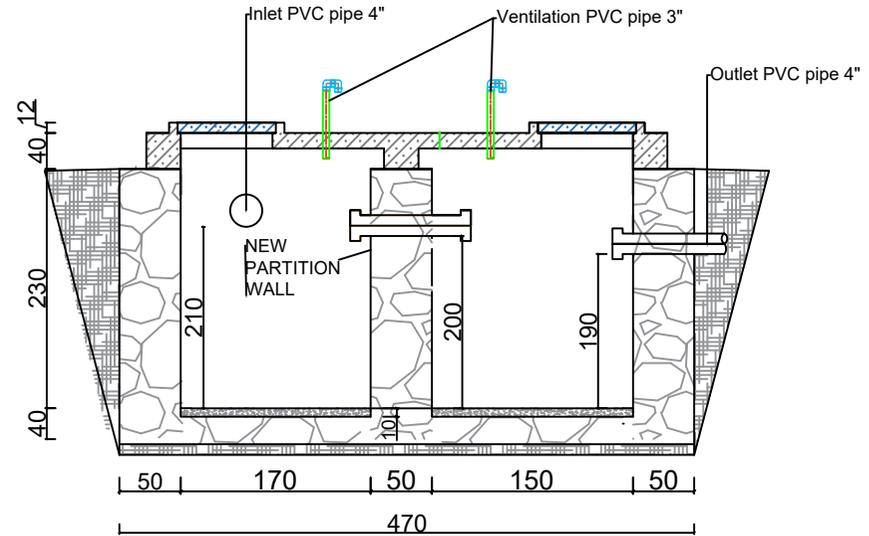
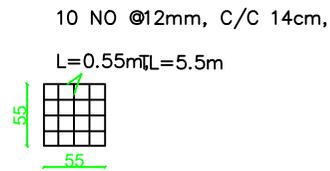
Not: inside high of toilets from floor up to roof must not be less than 270cm



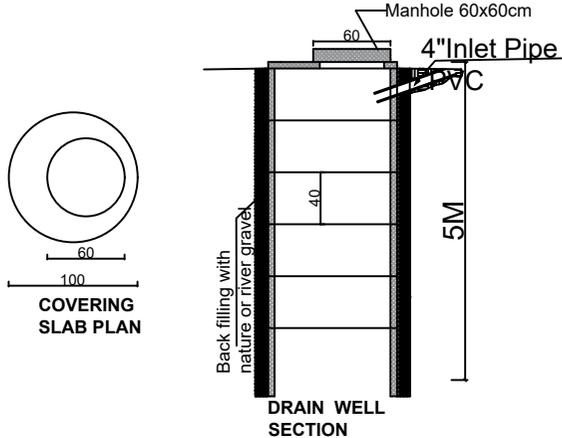
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	SURVEYED BY	Zalal, Farjad	29-07-2024		DISTRICT	Farsi	START DATE	----	DRAWING TYPE	Toilets & sink insralation
	DRAWN BY	M.ismael	05-08-2024		HCF NAME	Sartik SHC	END DATE	----	E	63° 26' 16.005"
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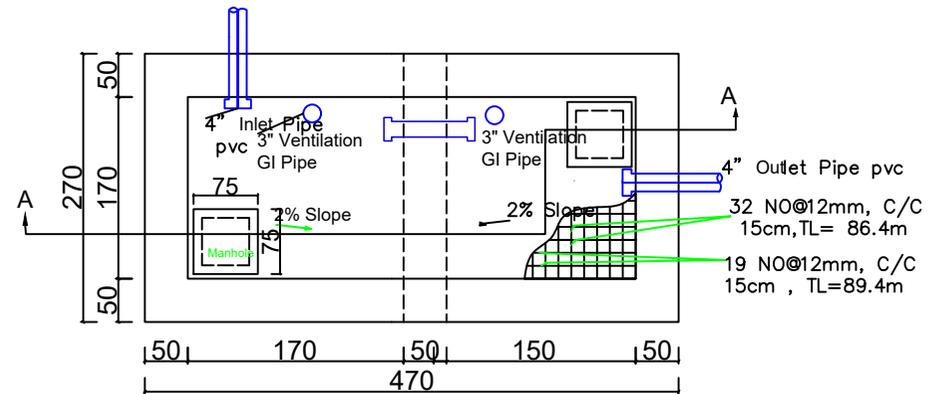
SEPTIC TANK BEAM AND SLAB BAR BENDING DETAIL



SEPTIC TANK SECTION A-A



NEW DRAIN WELL FOR SEWERAGE SYSTEM



NEW SEPTIC TANK PLAN

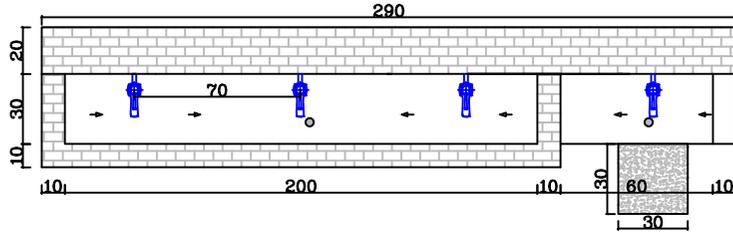


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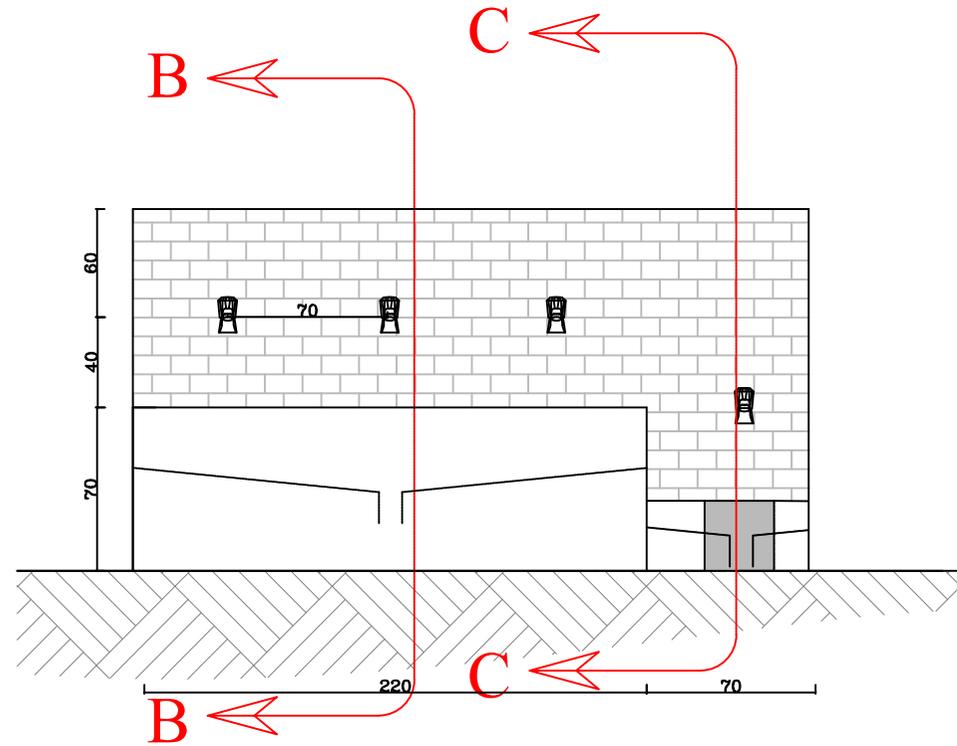


PROVINCE	Herat	SCALE	1:100	PROJECT SUB TITLE	Major maintenance of HCF-WASH sector
DISTRICT	Farsi	START DATE	----	DRAWING TYPE	Septic tank plan & section
HCF NAME	Sartik SHC	END DATE	----	E	63° 26' 16.005"
HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	33° 49' 39.513"

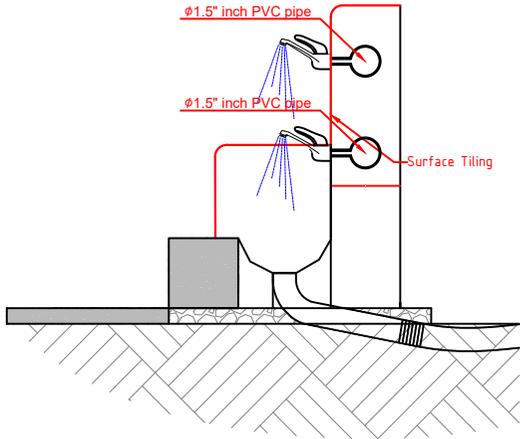
Hand Washing Top View



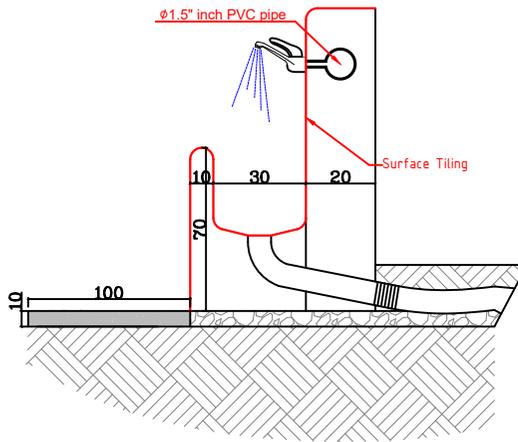
Front View



Section C-C

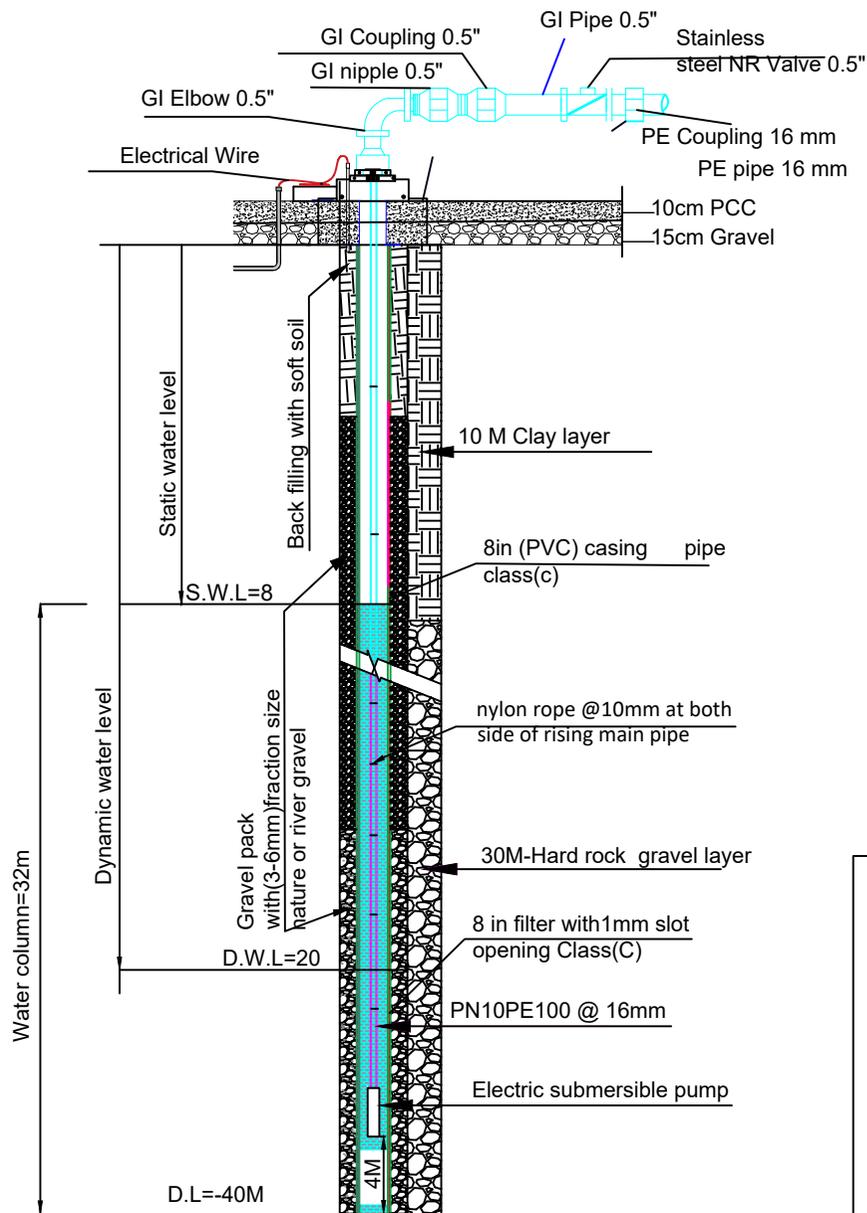


Section B-B

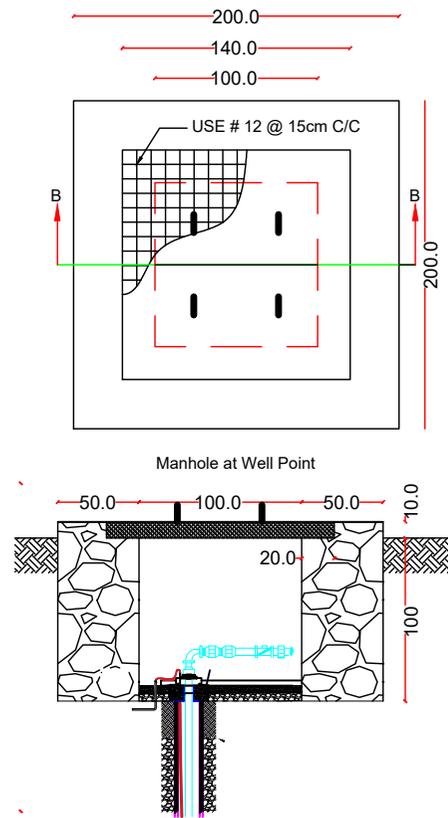


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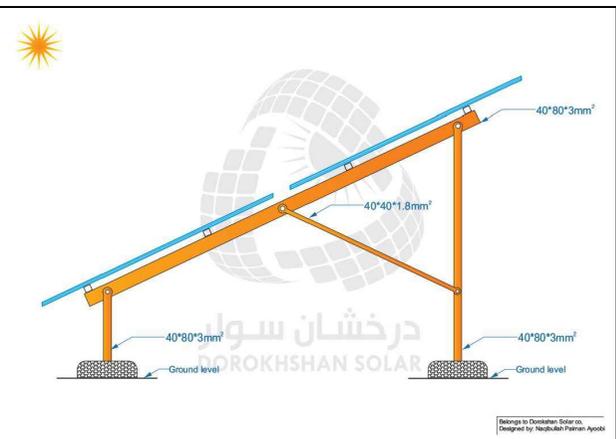
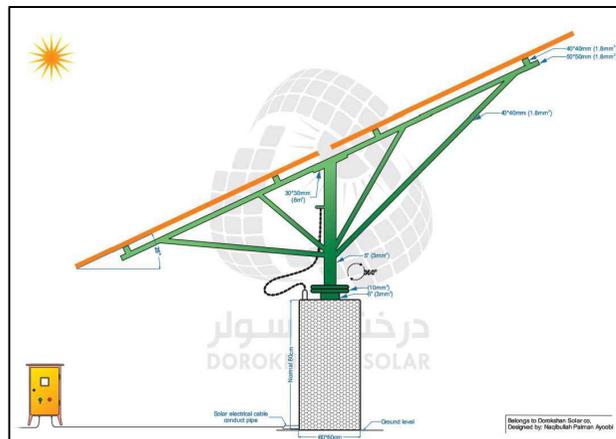


SECTION B-B
installation of PVC
causing pipe and pump



SOLAR PANEL ARRAY SYSTEM

- NOTE:**
1. We found that the existing bore well is without any causing protection so we planed to install PVC causing pipe class C 8inch with a proper protection manhole at will point
 2. Solar panel array box made of (L,T& Can) profiles for more specifications refers to BoQ & solar design
 3. Number of solar in the array is also refers to BoQ & solar design
 4. Type of solar specified in BoQ & solar design
 5. Price of solar and array boundary is also specified in BoQ



TASK & RESPONSIBILITIES		DATE	NO OF PAGES 10/10
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PROVINCE	Herat	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
DISTRICT	Farsi	START DATE	----	DRAWING TYPE	bore well section
HCF NAME	Sartik SHC	END DATE	----	E	63° 26' 16.005"
HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	33° 49' 39.513"