



TAKAGHAL SHC



DRAWINGS

AS- BUILT & NEW
STRUCTURES

GHOR, LAL&SARJANGAL, AFGHANISTAN

Identified Gaps of WASH Services in Takaghal SHC:

The building does not have water supply, wastewater system, or septic tank.

The dry latrines need to be replaced with a toilet system that includes a flush tank.

There is no hand washing facility in the clinic rooms.

The Sub Health Center (SHC) does not have an incinerator.

The OPD room, vaccination room, nutrition room, hall, and all baths and toilets do not have floor drains, tiles, or ceramic. Additionally, the delivery room lacks an adjacent bath and toilet. The building does not have any available water source.

The building lacks access to a water source.

Solution:

- installation of the SHC 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 and rehabilitation of two pair double flash toilets with all needed material one in OPD hall and the other for delivery room.

- Construction of a bore well in the clinic site to provide safe water for the clinic

- Installation of the sinks and Floor Drain for all clinic rooms for hand washing facility

-construction of a new septic tank.

-construction of an incinerator for waste management system

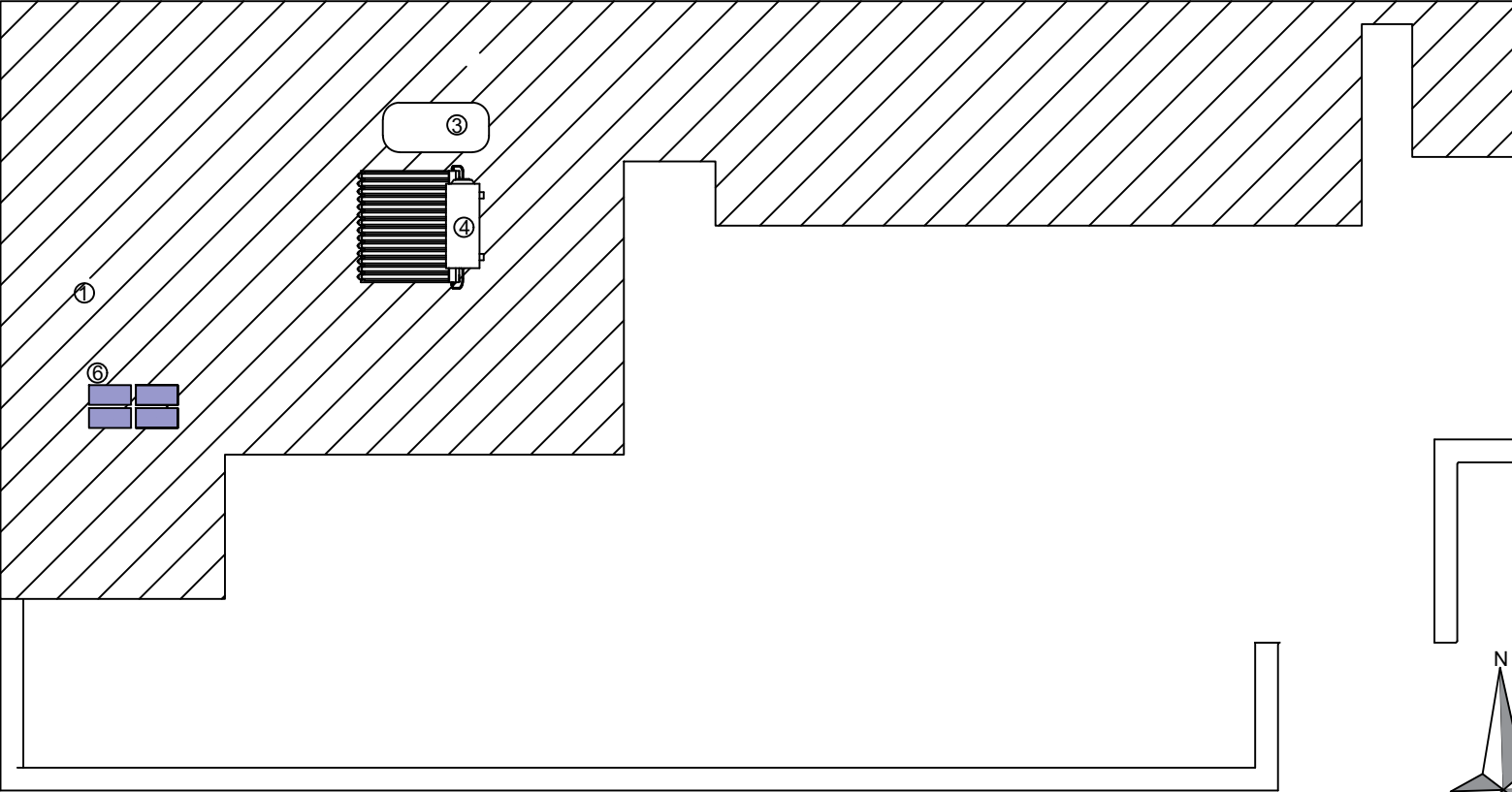


TASK & RESPONSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	-	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjanganal	START DATE	-	DRAWING TYPE	cover page
DRAWN BY	M.Ismael	22-05-2024		HCF NAME	Takaghal	END DATE	-	E	66° 07' 57.344"
REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
APPROVED BY	Simon Wankuru	-							

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TABLE OF CONTENT	
1	Health care center building
2	New dug well for septic tank
3	New plastic water tank 2000 lit
4	New Sun Water Boiler 100lit
5	New septic tank
6	New solar panel for water pump
7	New incinerator structure
8	Bore well to supply water for SHC
9	Lal-Takaghal way
10	Flood way



9 Lal-Takaghal way

TAKAGHAL SHC AREA SITE PLAN



New bore well is located 80m far from the SHC building

	TASK & RESPOSIBILITIES		DATE	<div><div>2</div><div>10</div></div>	PROVINCE	Ghor	SCALE	1:200	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjanganal	START DATE	----	DRAWING TYPE	Site plan
	DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
	REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
	APPROVED BY	Simon Wankuru	-							

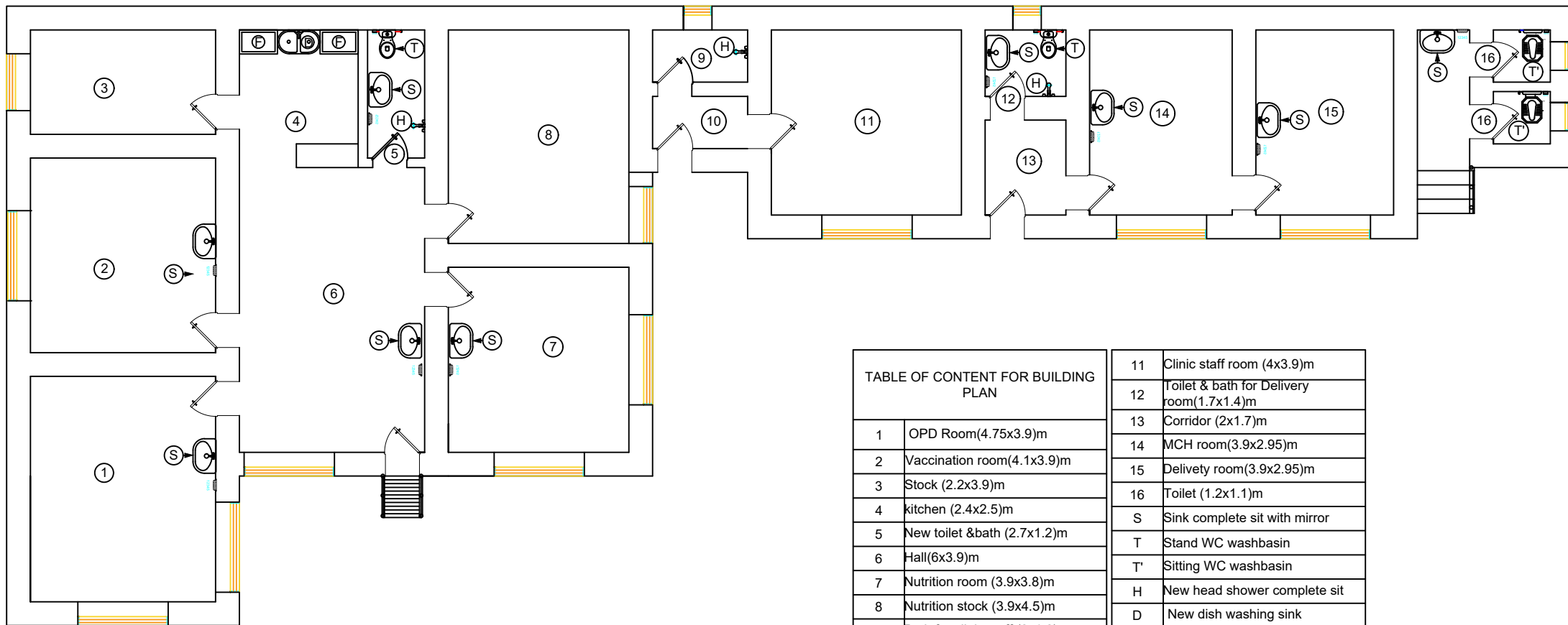


TABLE OF CONTENT FOR BUILDING PLAN			
1	OPD Room(4.75x3.9)m	11	Clinic staff room (4x3.9)m
2	Vaccination room(4.1x3.9)m	12	Toilet & bath for Delivery room(1.7x1.4)m
3	Stock (2.2x3.9)m	13	Corridor (2x1.7)m
4	kitchen (2.4x2.5)m	14	MCH room(3.9x2.95)m
5	New toilet &bath (2.7x1.2)m	15	Delivety room(3.9x2.95)m
6	Hall(6x3.9)m	16	Toilet (1.2x1.1)m
7	Nutrition room (3.9x3.8)m	S	Sink complete sit with mirror
8	Nutrition stock (3.9x4.5)m	T	Stand WC washbasin
9	Bath for clinic staff (2x1.2)m	T'	Sitting WC washbasin
10	Corridor (2x1.2)m	H	New head shower complete sit
		D	New dish washing sink
		F	NEW FLOOR CABINETS

	TASK & RESPOSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjantal	START DATE	----	DRAWING TYPE	Main plan
	DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
	REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
	APPROVED BY	Simon Wankuru	-							

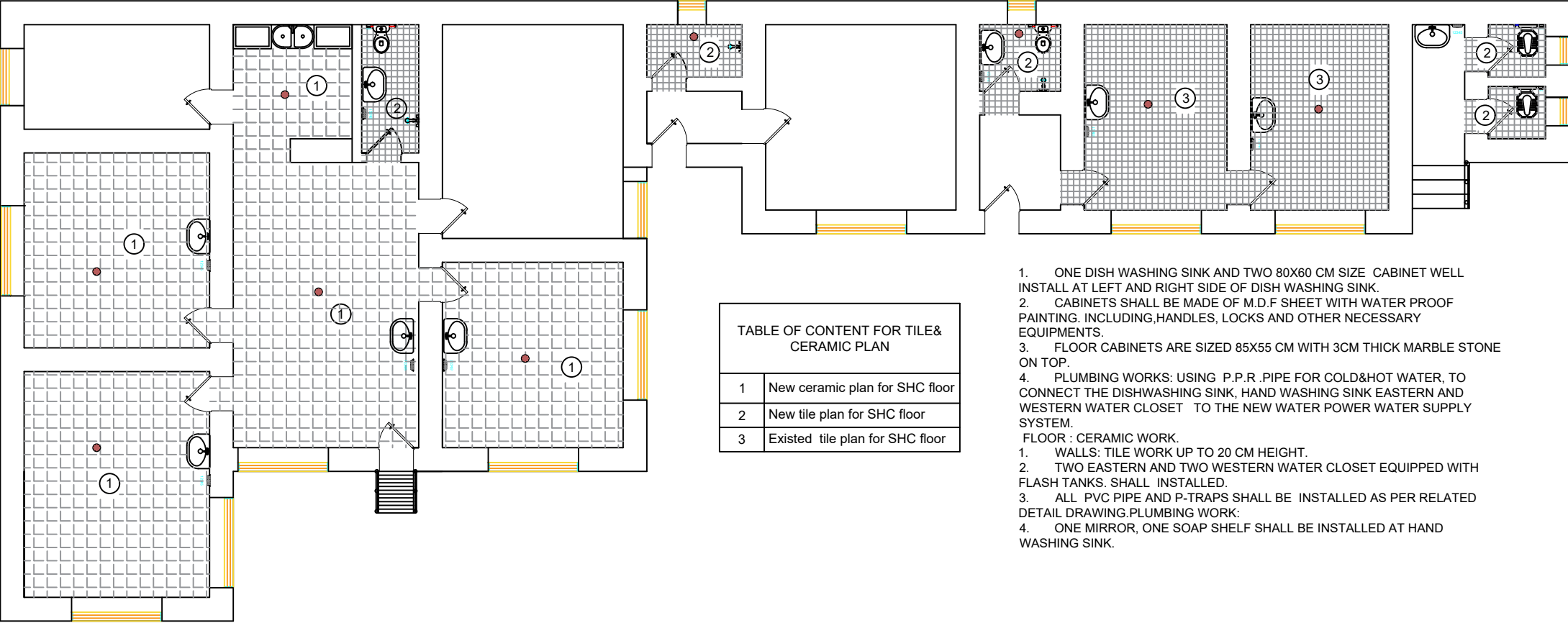


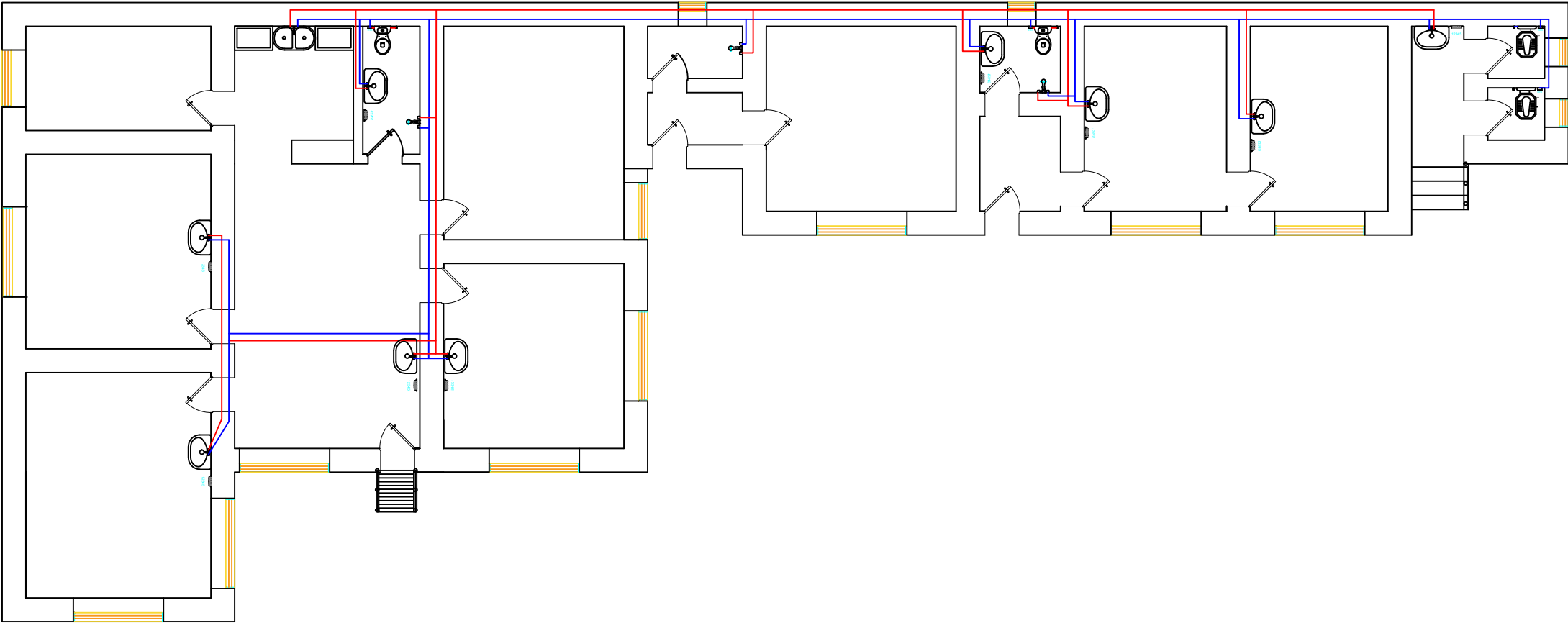
TABLE OF CONTENT FOR TILE& CERAMIC PLAN	
1	New ceramic plan for SHC floor
2	New tile plan for SHC floor
3	Existed tile plan for SHC floor

1. ONE DISH WASHING SINK AND TWO 80X60 CM SIZE CABINET WELL INSTALL AT LEFT AND RIGHT SIDE OF DISH WASHING SINK.
 2. CABINETS SHALL BE MADE OF M.D.F SHEET WITH WATER PROOF PAINTING. INCLUDING,HANDLES, LOCKS AND OTHER NECESSARY EQUIPMENTS.
 3. FLOOR CABINETS ARE SIZED 85X55 CM WITH 3CM THICK MARBLE STONE ON TOP.
 4. PLUMBING WORKS: USING P.P.R .PIPE FOR COLD&HOT WATER, TO CONNECT THE DISHWASHING SINK, HAND WASHING SINK EASTERN AND WESTERN WATER CLOSET TO THE NEW WATER POWER WATER SUPPLY SYSTEM.
- FLOOR : CERAMIC WORK.
1. WALLS: TILE WORK UP TO 20 CM HEIGHT.
 2. TWO EASTERN AND TWO WESTERN WATER CLOSET EQUIPPED WITH FLASH TANKS. SHALL INSTALLED.
 3. ALL PVC PIPE AND P-TRAPS SHALL BE INSTALLED AS PER RELATED DETAIL DRAWING.PLUMBING WORK:
 4. ONE MIRROR, ONE SOAP SHELF SHALL BE INSTALLED AT HAND WASHING SINK.

-All dimension are in centimeter, otherwise noted
-The ceramic and tile hatched areas are under plan to be install ceramic and tile

TAKAGHAL SHC TILE & CERAMIC FLOOR PLAN

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	SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjantal	START DATE	----	DRAWING TYPE	Tile & ceramic plan
	DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
	REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
	APPROVED BY	Simon Wankuru	-							




TAKAGHAL SHC WATER SUPPLY PLANNED SYSTEM

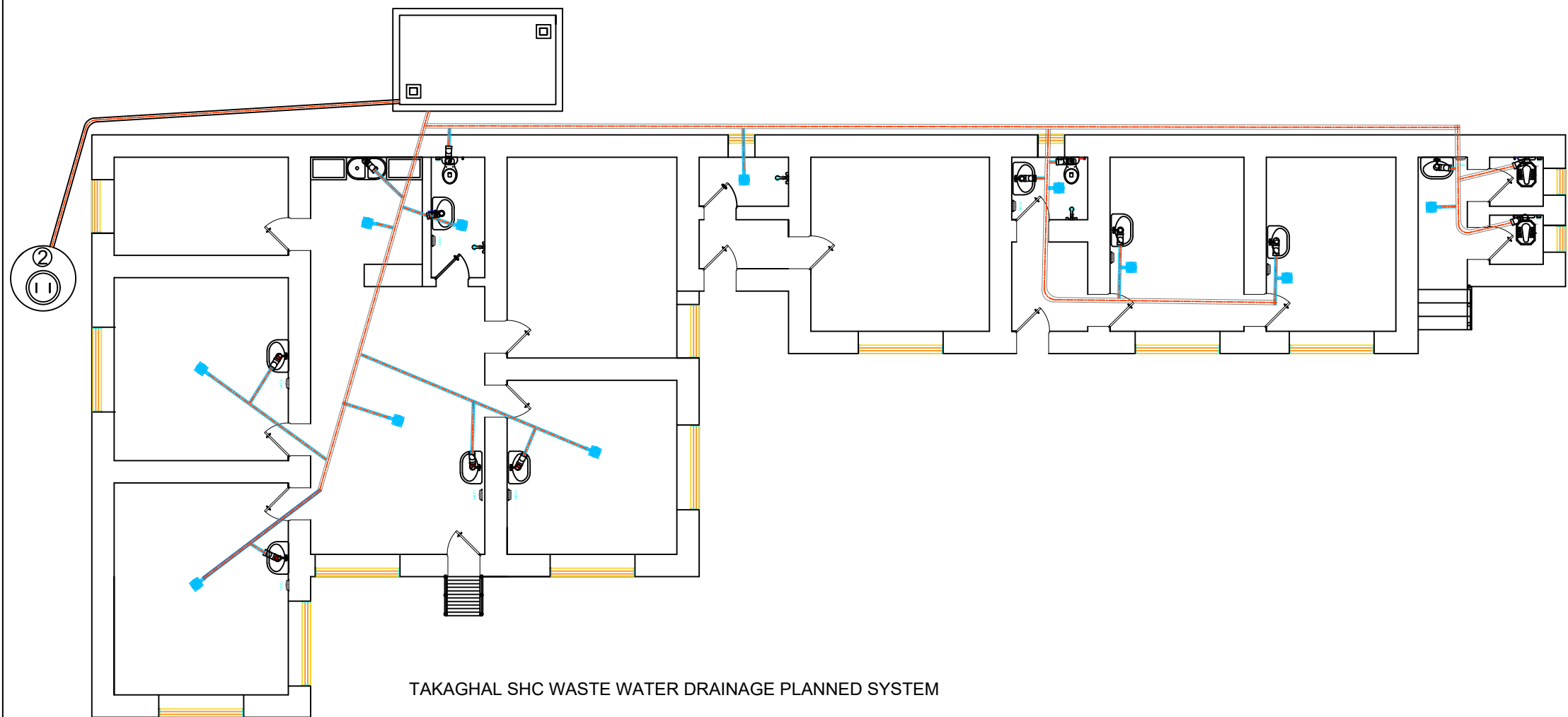
Note:

--- Red color line indicates hot water pipe line

--- Blue color line indicates cold water pipe line

The building water will supply by new solar water supply system.

	TASK & RESPOSIBILITIES		DATE	<div>510</div>	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjangal	START DATE	----	DRAWING TYPE	SHC water supply plan
	DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
	REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
	APPROVED BY	Simon Wankuru	-							



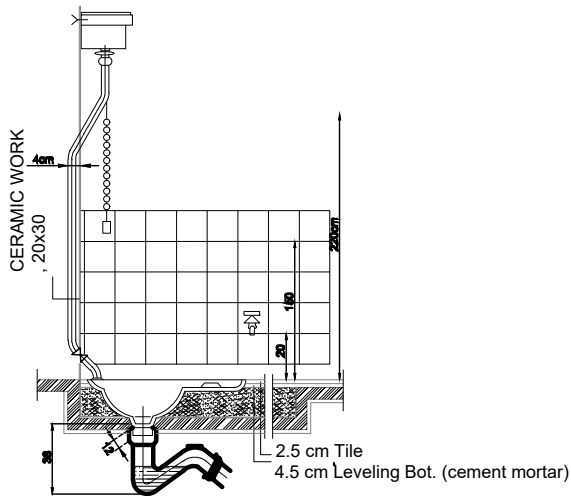
Note:

- This form indicates swab
- This form indicates siphon

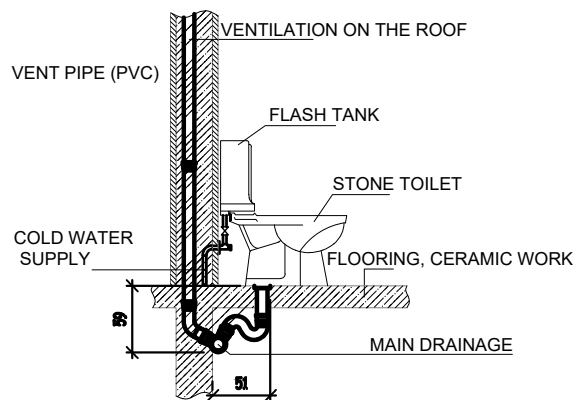
The building waste water drainage system is new

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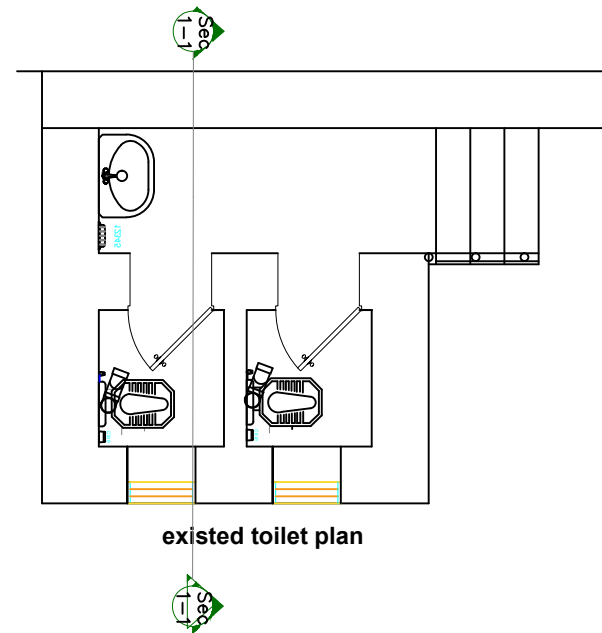
TASK & RESPOSIBILITIES		DATE	NO OF PAGES <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">6 10</div>	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjangal	START DATE	----	DRAWING TYPE	Waste water Drainage plan
DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
APPROVED BY	Simon Wankuru	-							



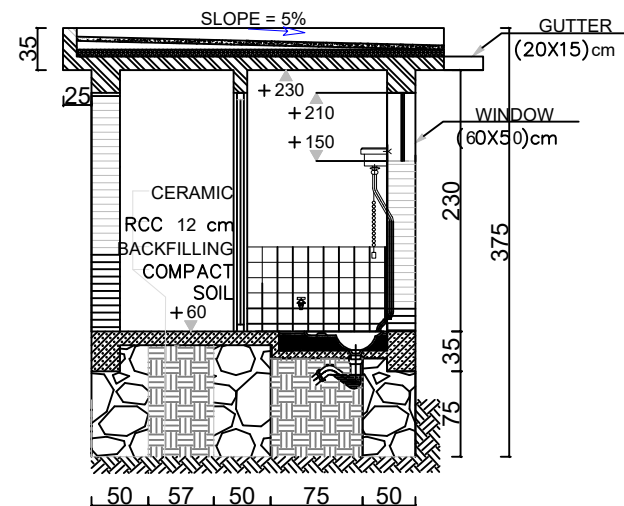
**DIMENSION AND CONNECTION DETAILS
PLACEMENT OF EASTERN TOILETS**



TYPICAL TOILET INSTALLATION



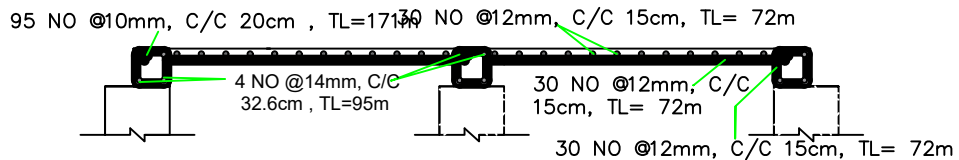
existed toilet plan



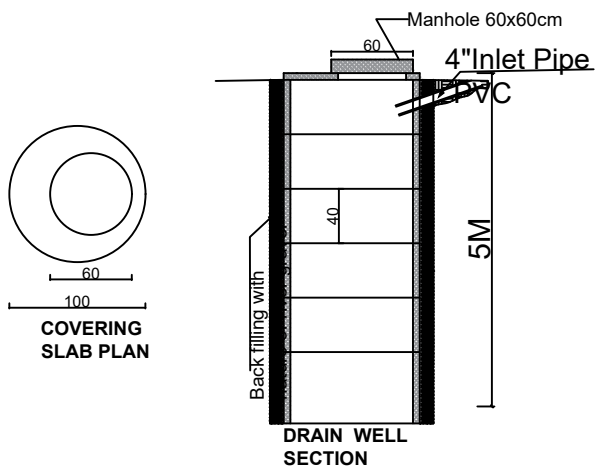
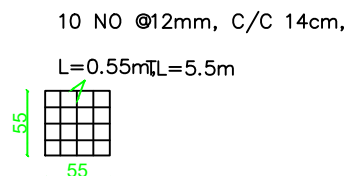
SECTION 1-1

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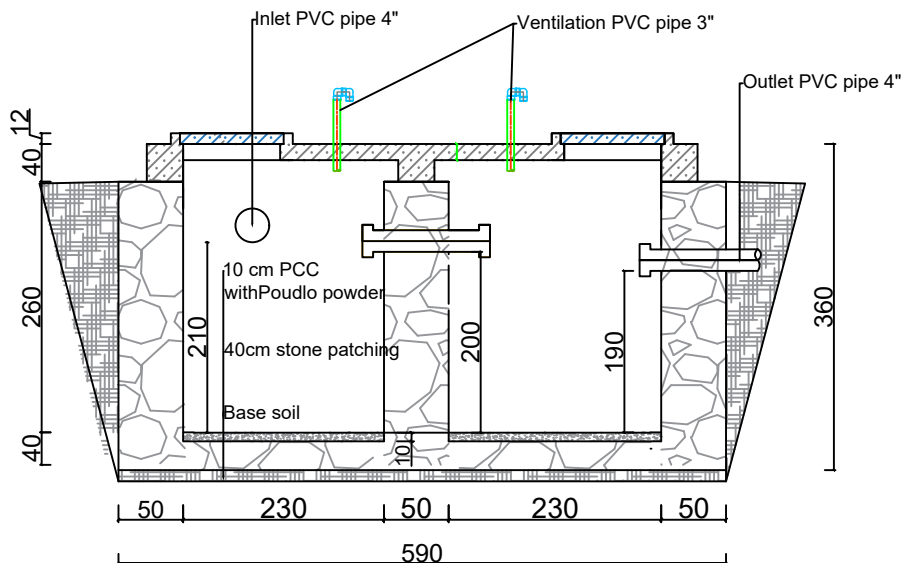
TASK & RESPOSIBILITIES		DATE	NO OF PAGES 7 10	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjantal	START DATE	----	DRAWING TYPE	Toilets plan and elevation
DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
APPROVED BY	Simon Wankuru	-							



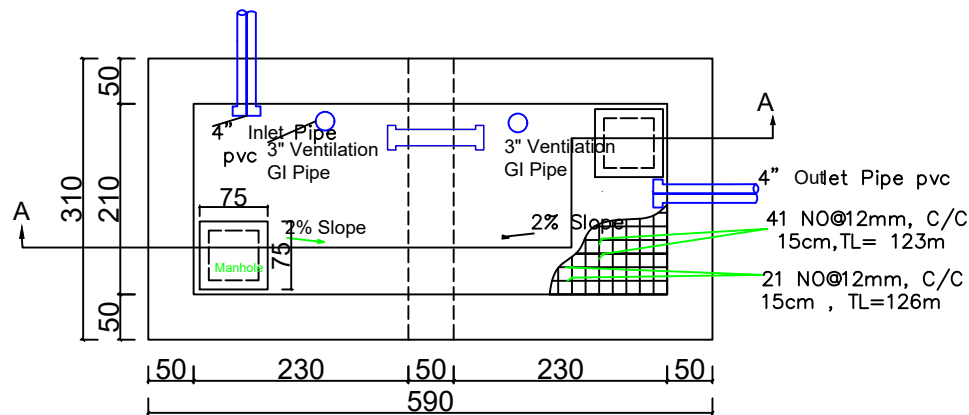
SEPTIC TANK BEAM AND SLAB BAR BENDING DETAIL



NEW DRAIN WELL FOR SEWERAGE SYSTEM



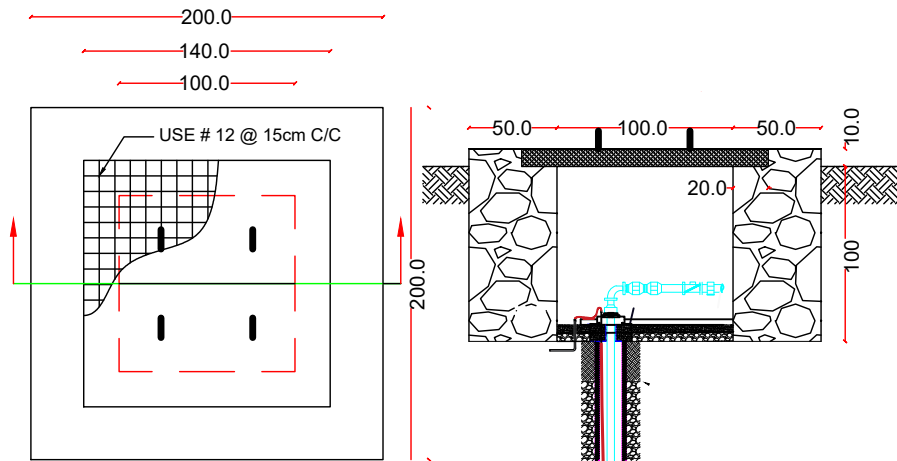
SEPTIC TANK SECTION A-A



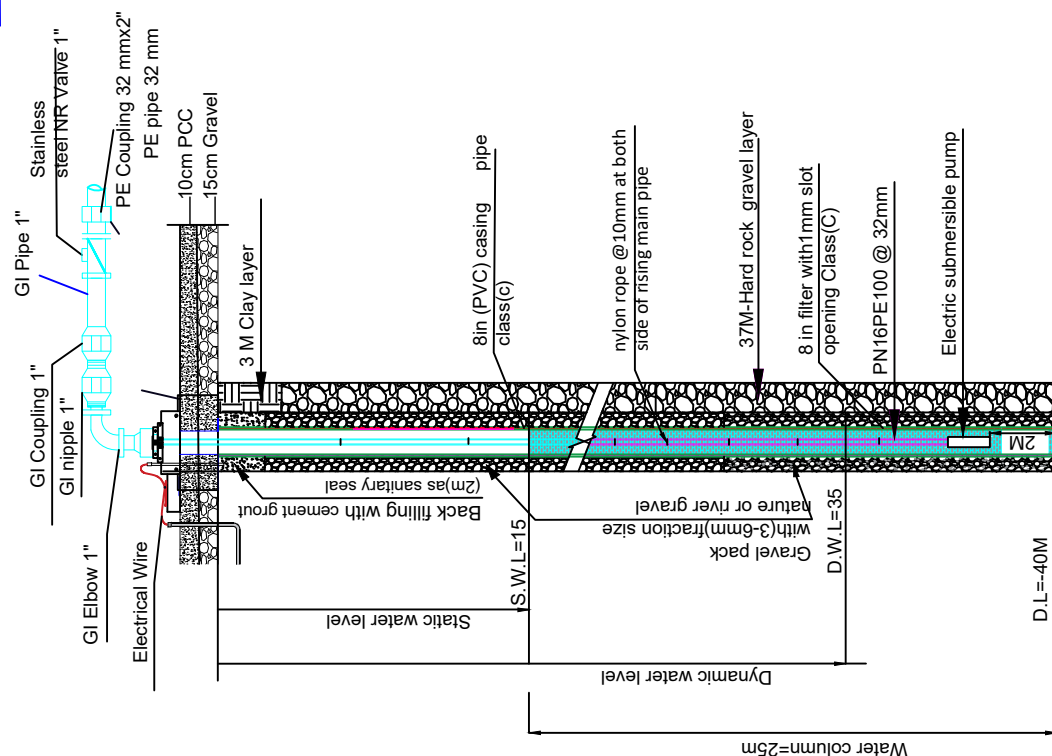
NEW SEPTIC TANK PLAN

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DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
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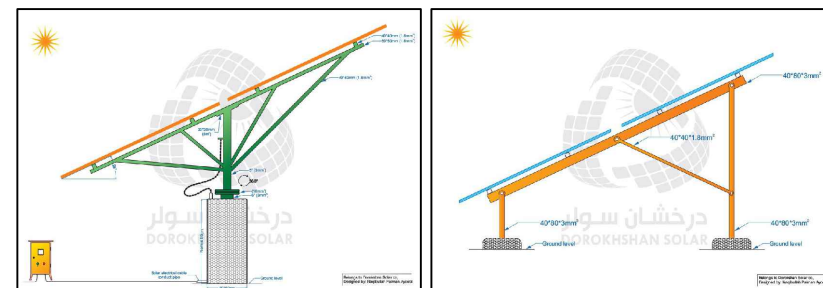
Manhole at Well Point



SECTION B-B



SOLAR PANEL ARRAY SYSTEM

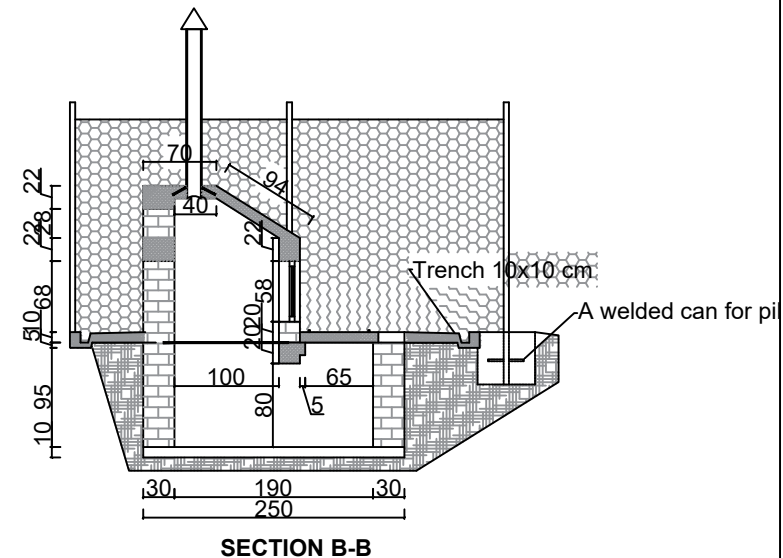
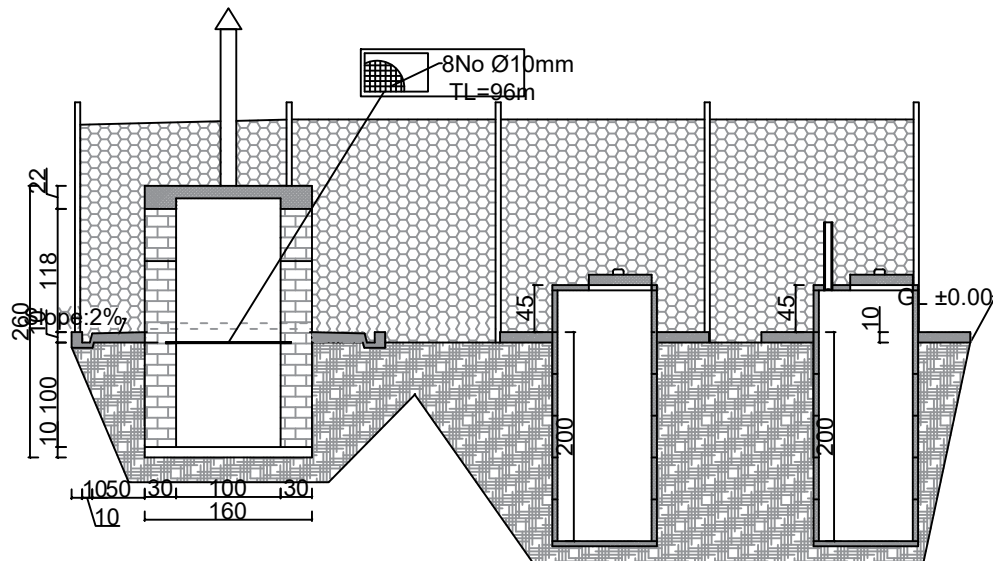
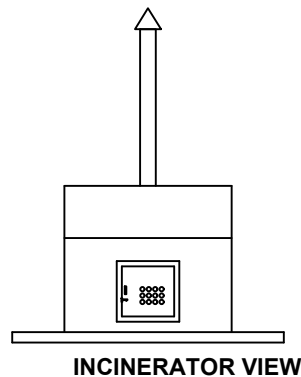


NOTE:

- We found that the clinic doesn't have any water sources and they are fetching the water from a distance of 3km water for the drinking purpose, so we considered a borehole by depth of 35m and wight of 12inch for the clinic
- Solar panel array stand made of aluminum profiles (4x8 & 4x4)cm
- 4 #Solar panel (PROPSOLAR 270W Poly crystalline 37.9V 9.22A)
- Price of solar and array boundary is specified in BoQ

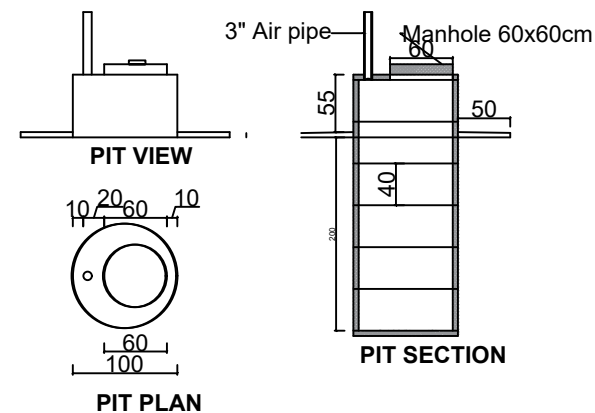
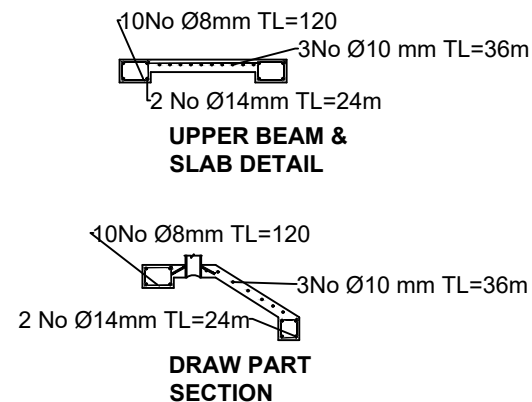
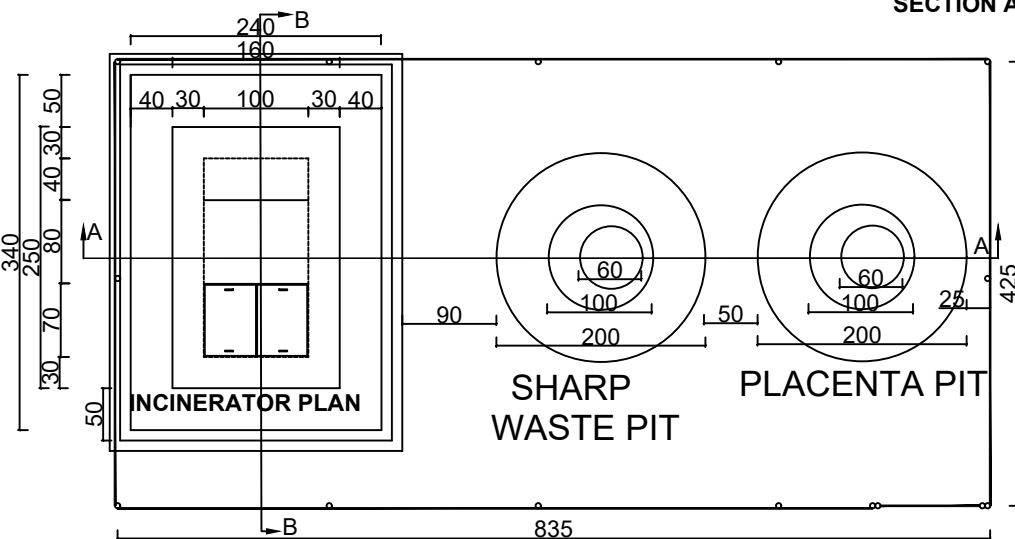
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TASK & RESPOSIBILITIES		DATE	NO OF PAGES	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjantal	START DATE	----	DRAWING TYPE	Bore well plan and section
DRAWN BY	M.ismael	22-05-2024	9 10	HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
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SECTION A-A

SECTION B-B



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SURVEYED BY	Farid Qaderi	26-02-2024		DISTRICT	Lal & Sarjantal	START DATE	----	DRAWING TYPE	WAST MANAGEMENT PLAN
DRAWN BY	M.ismael	22-05-2024		HCF NAME	Takaghal	END DATE	----	E	66° 07' 57.344"
REVIEWED BY	Hekmatullah Arefzai	-		HCF TYPE	SHC	PROJECT TITLE	FCDO-DAWAM	N	34° 32' 14.094"
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