

LAFRAH SHC and Gawkoshta water supply system



DRAWINGS



AS- BUILT & NEW STRUCTURES GHOR, FIROZKOH, AFGHANISTAN

Founded Problems in Lafrah Sub Health Center(SHC):

- The building lacks access to a water source.
 - The building does not have water supply, wastewater system.
 - The dry latrines need to be replaced with a toilet system that includes a flush tank.
 - There is no stable hand washing facility in the clinic rooms.
 - The Sub Health Center (SHC) does not have a septic tank.
- The OPD room, M.C.H 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.
- there is no enough toilet for patients and clinic staff

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 wastewater to septic tank
 - _Construction of two flash toilets with all needed material for male and female (staff and patients).
 - _Installation of the sinks and Floor Drain for all clinic rooms and hand washing facility
 - _construction of a new septic tank.
 - _construction of an incinerator structure, drain pits (sharp waste pit and placenta pit) and rings for placenta and sharp waste pits and a protection fence around the incinerator and pits for the Lafrah SHC
 - _installation of kitchen fixtures like dish washing sink and cabinet
- Construction of two Solar Water Supply Systems for the Clinic and Gawkoshta-community (one system will provide water from the new Reservoir#1 to new Reservoir#2, and the second system will provide water from Reservoir#2 to Reservoir #3(in total we will construct three which one is stone masonry inside the valley and the other two new RCC reservoir# 2,3=17.5 M3 and four public stand taps)



TASK & RESPONSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	-	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	-	DRAWING TYPE	cover page
DRAWN BY	M.Ismael	30-06-2024		HCF NAME	Lafrah	END DATE	-	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							

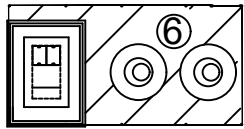
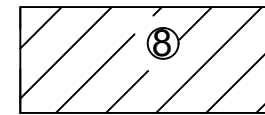
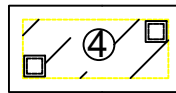
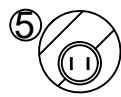
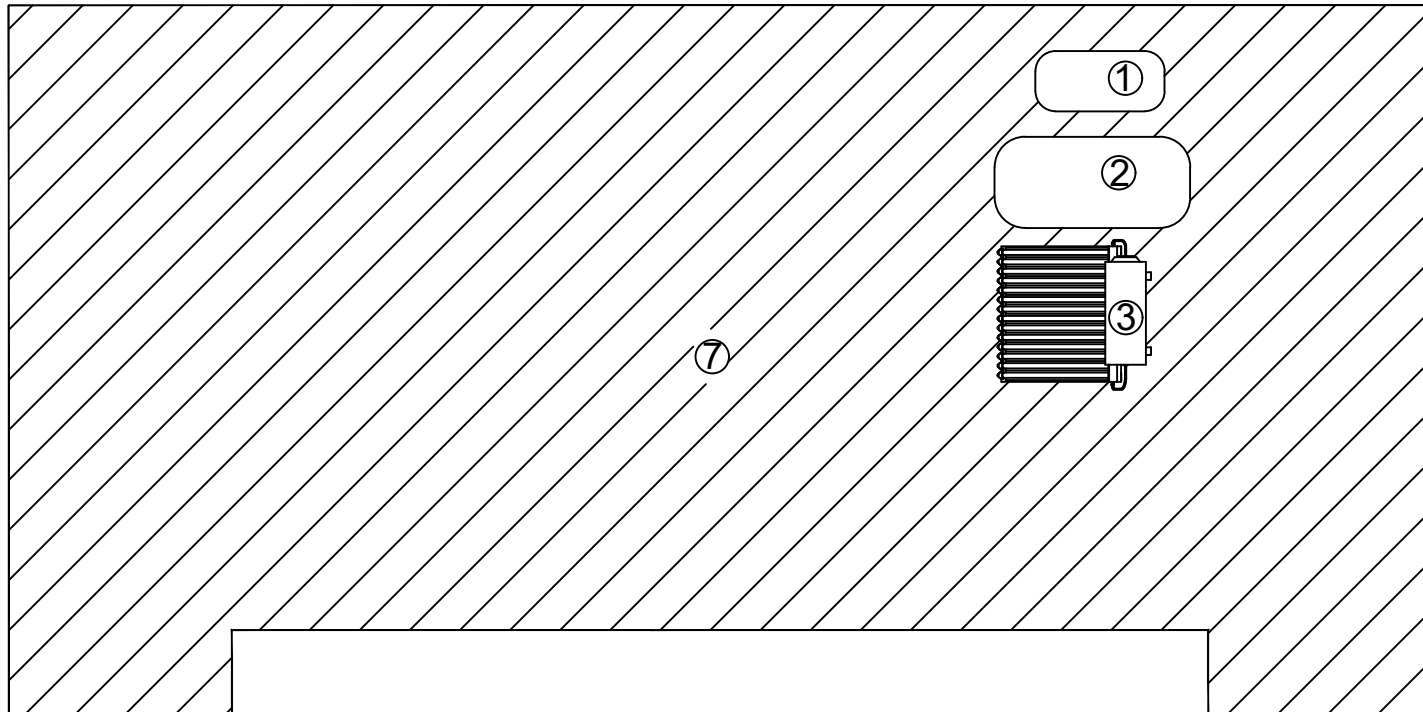
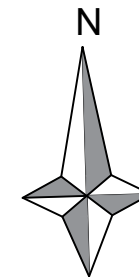


TABLE OF CONTENT

1	New plastic water tank 1000 lit
2	New plastic water tank 2000 lit
3	New Sun Water Boiler 200lit
4	New septic tank for clinic
5	New dug well for septic tank
6	New incinerator structure
7	Health care center building
8	New toilet for male and female

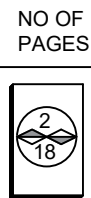


LAFRAH- S.H.C -AREA SITE PLAN



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TASK & RESPOSIBILITIES		DATE
SURVEYED BY	M.Ismael	31-05-2024
DRAWN BY	M.ismael	30-06-2024
REVIEWED BY	Farid Ahmad Qaderi	-
APPROVED BY	Francois Habitegeko	-



PROVINCE	Ghor	SCALE	1:200	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Site plan
HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"

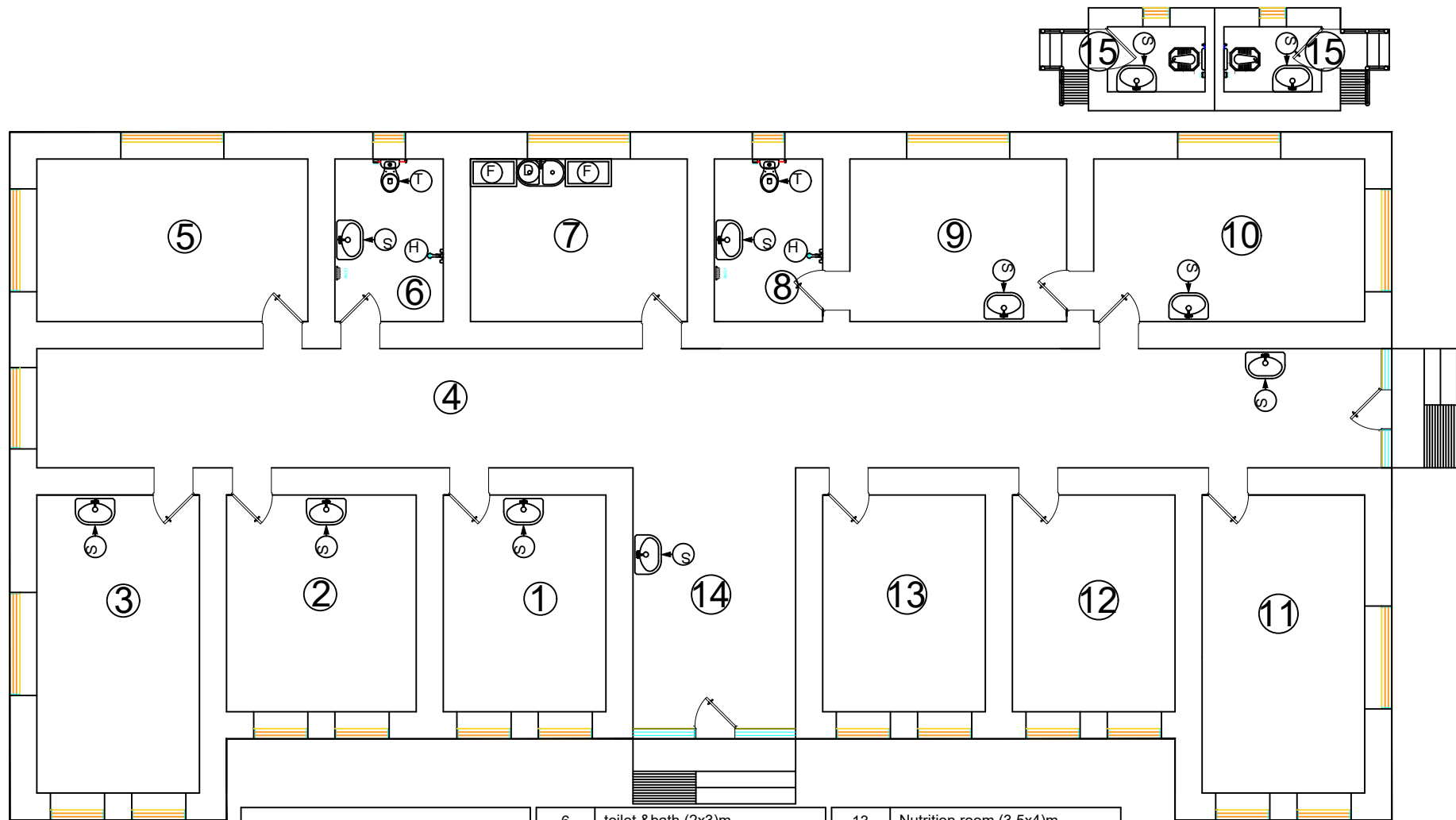


TABLE OF CONTENT FOR BUILDING PLAN			
1	Pharmacy (4X3)m	6	toilet &bath (2x3)m
2	Medicine Stock(3X4)m	7	kitchen (3x4)m
3	Clinic staff room (3x5.5)m	8	toilet &bath (2x3)m
4	Hall(2.2X24.5)m	9	Vaccination room(3x4)m
5	Delivery room(3x5m)	10	O.P.D room(5X3)
		11	Vaccination room(3x4)m
		12	M.C.H room(3X5.5)m
		13	Nutrition room (3.5x4)m
		14	Corridor (3X4.5)m
		15	New toilet for male&female 2No(1.8X1.2)m
		S	Sink complete sit with mirror
		T	Stand WC washbasin
		H	New head shower complete sit
		D	New dish washing sink
		F	NEW FLOOR CABINETS

TASK & RESPOSIBILITIES		DATE	NO OF PAGES 3 18	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Main plan
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							

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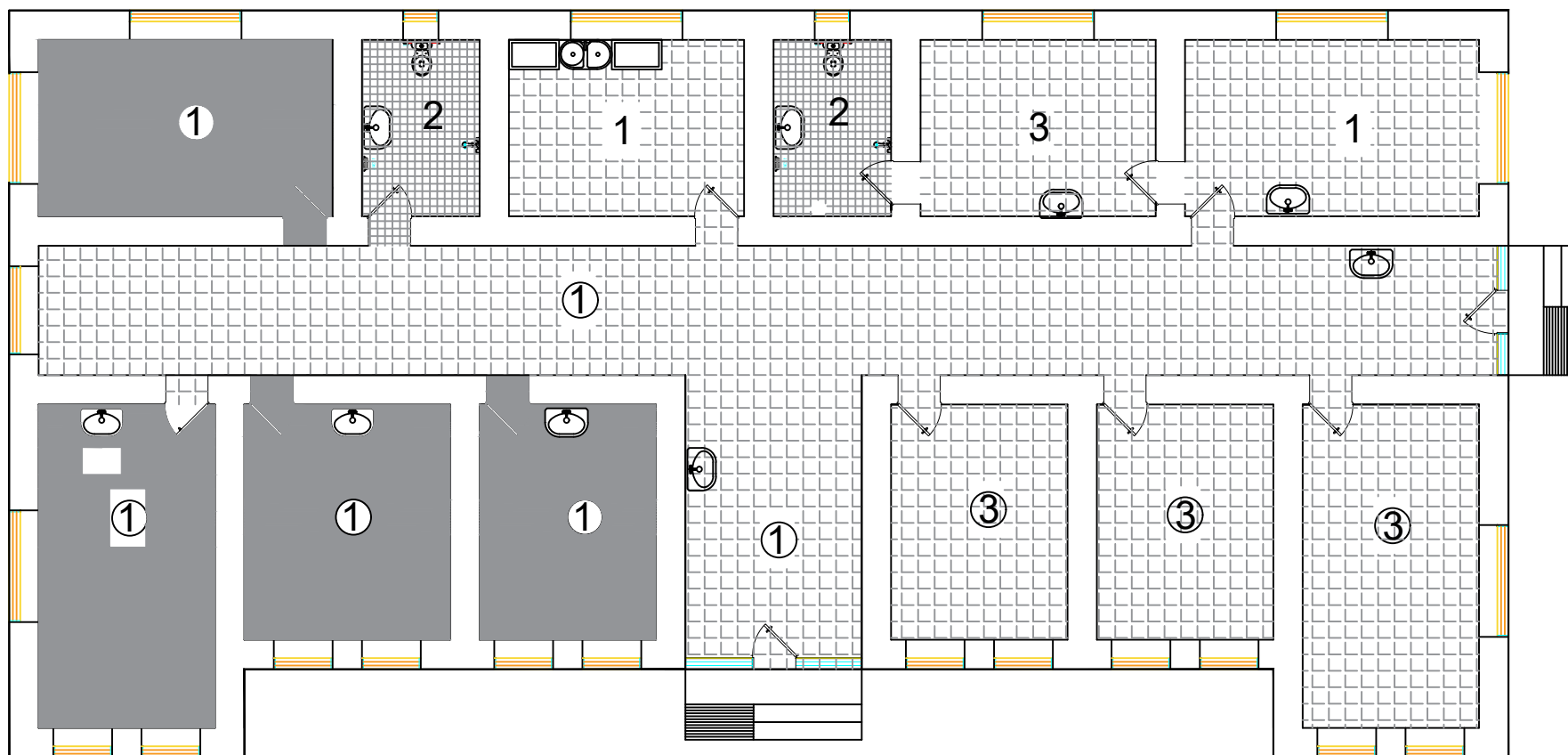
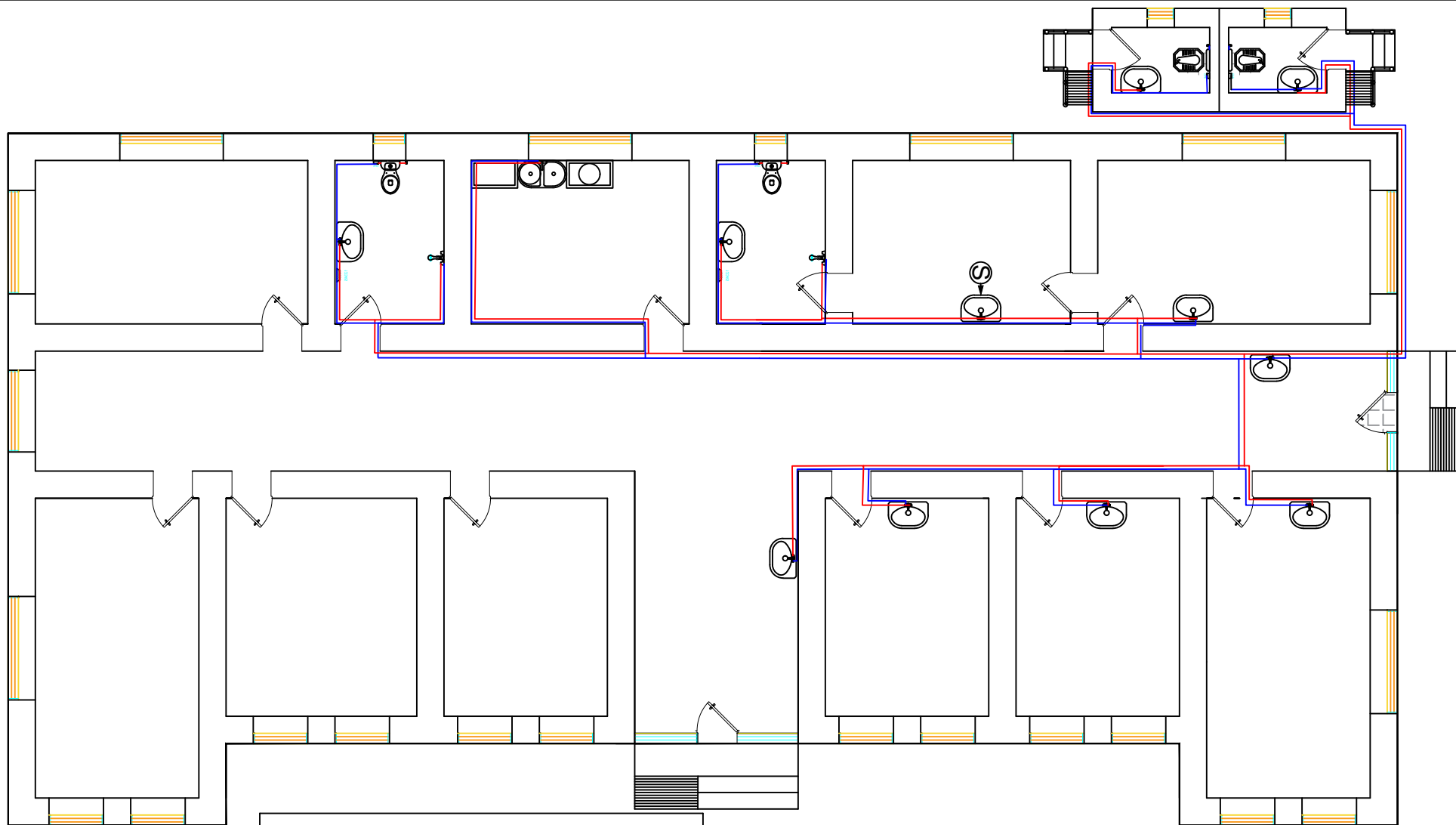


TABLE OF CONTENT FOR TILE, CERAMIC AND CONCRETE PLAN	
1	New ceramic plan for SHC floor
2	New tile plan for SHC floor
3	New concrete plan for SHC floor

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

	TASK & RESPOSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Tile & ceramic plan
	DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
	REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
	APPROVED BY	Francois Habitegeko	-							

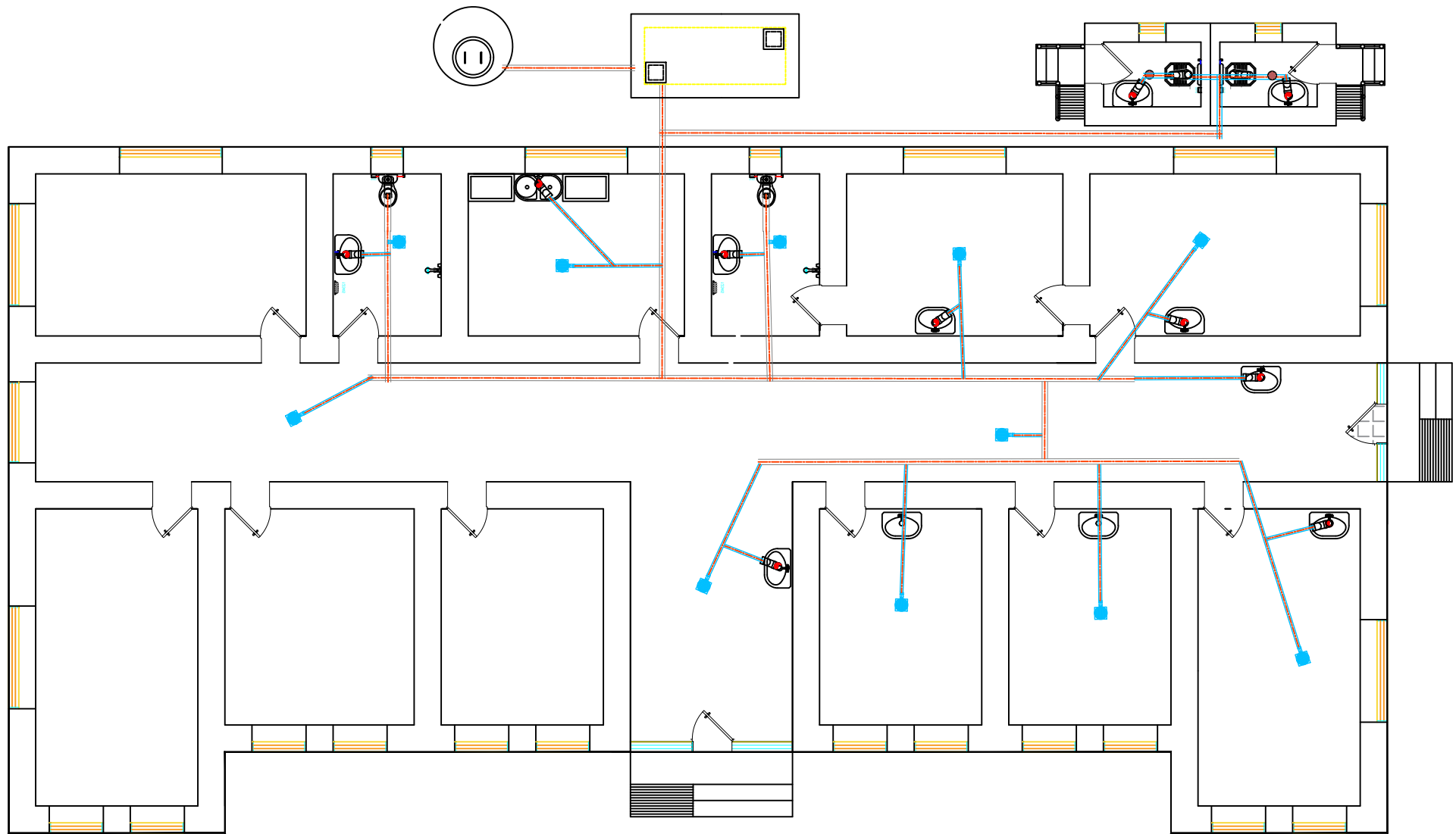


LAFRAH-S.H.C-WATER SUPPLY PLANNED SYSTEM

- | | |
|---|--|
| 1 | -- Red color line indicates hot water pipe line |
| 2 | -- Blue color line indicates cold water pipe line |
| 3 | The building water will supply by new solar water supply system. |



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TASK & RESPOSIBILITIES		DATE	NO OF PAGES <div>5 18</div>	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	SHC water supply plan
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							



LAFRAH SHC WASTE WATER DRAINAGE PLANNED SYSTEM

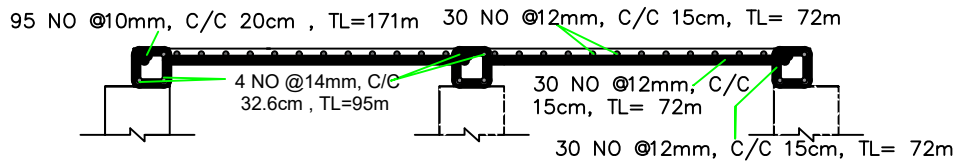
Note:

-  This form indicates swab
-  This form indicates siphon

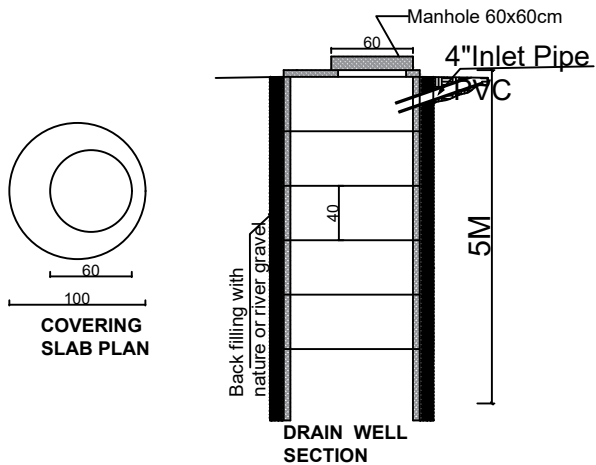
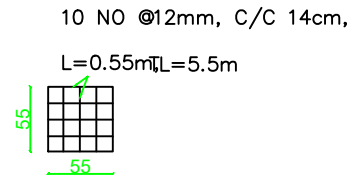
The building waste water drainage system is new

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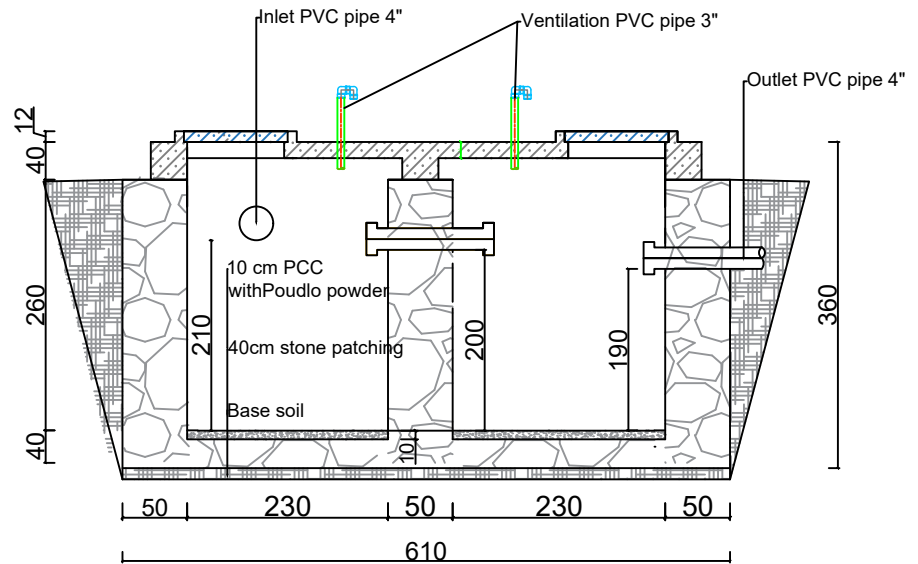
TASK & RESPOSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Waste water Drainage plan
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							



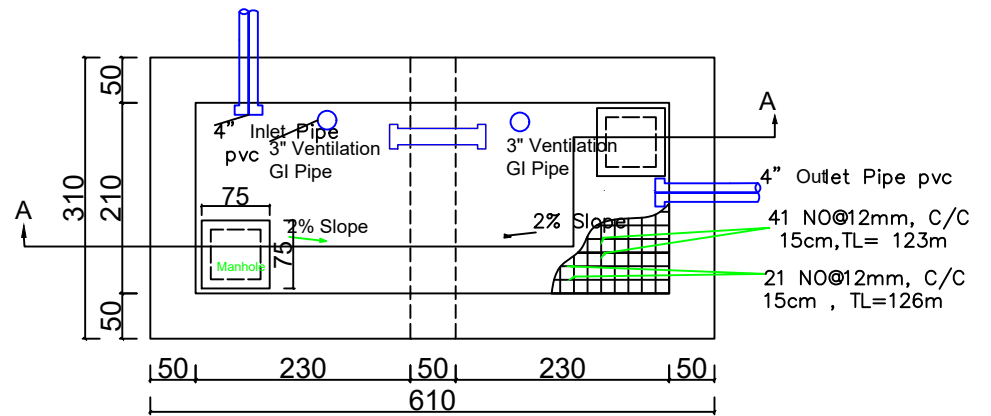
SEPTIC TANK BEAM AND SLAB BAR BENDING DETAIL



NEW DRAIN WELL FOR SEWERAGE SYSTEM




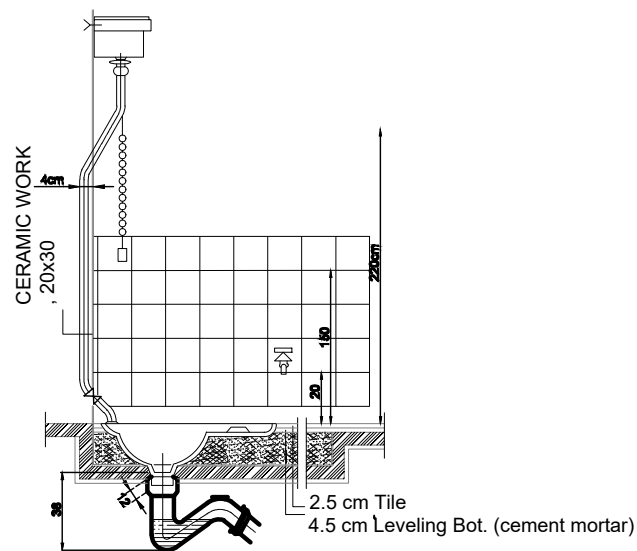
SEPTIC TANK SECTION A-A



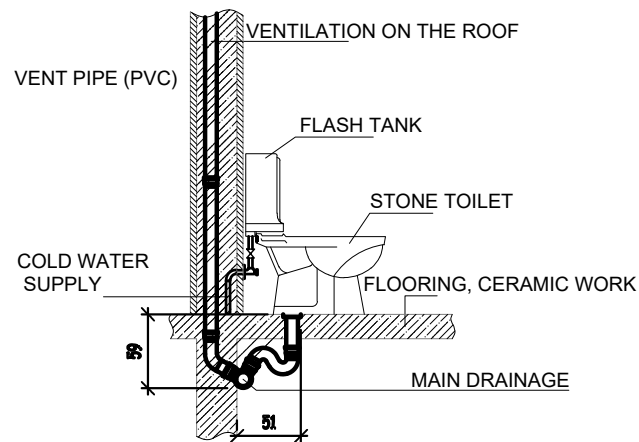
NEW SEPTIC TANK PLAN

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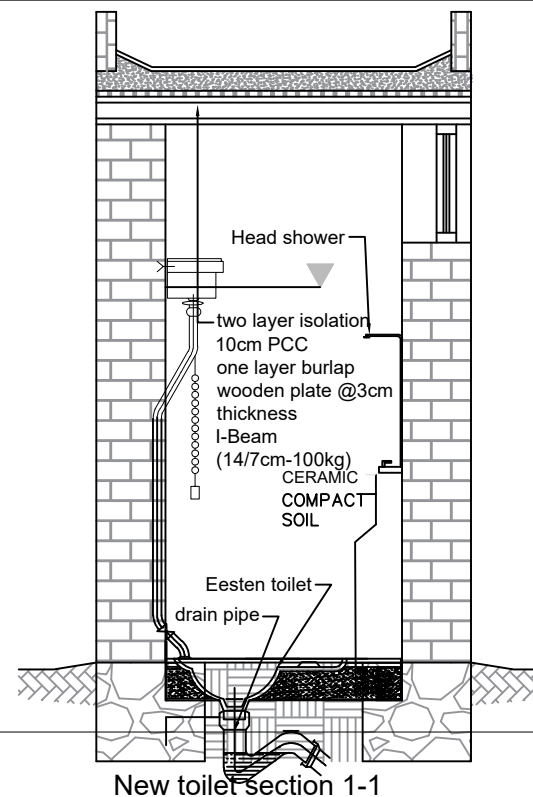
TASK & RESPOSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	SEPTIC TANK PLAN
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							



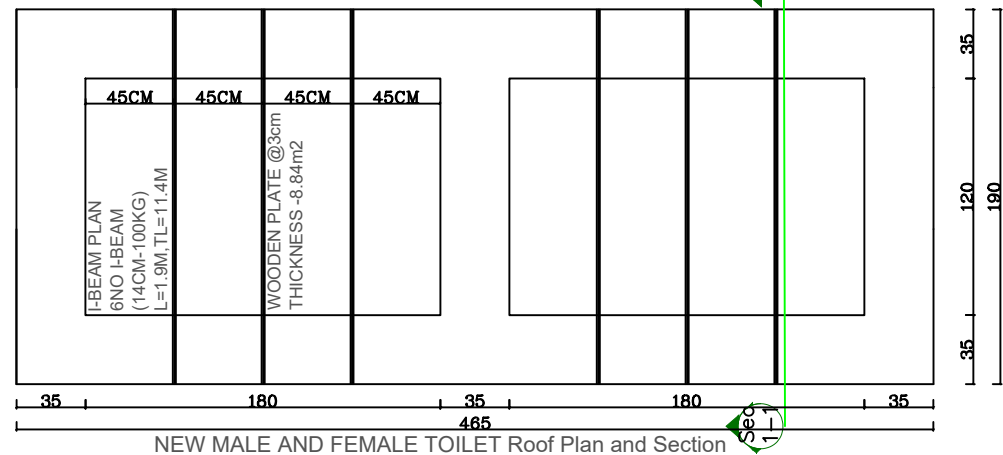
**DIMENSION AND CONNECTION DETAILS
PLACEMENT OF EASTERN TOILETS**



TYPICAL TOILET INSTALLATION



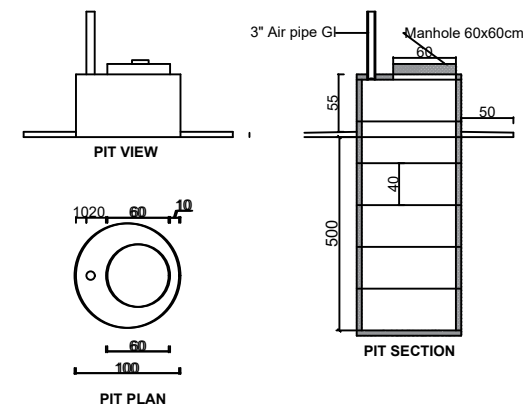
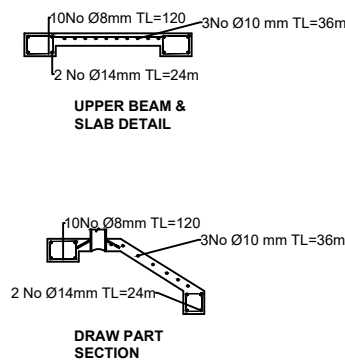
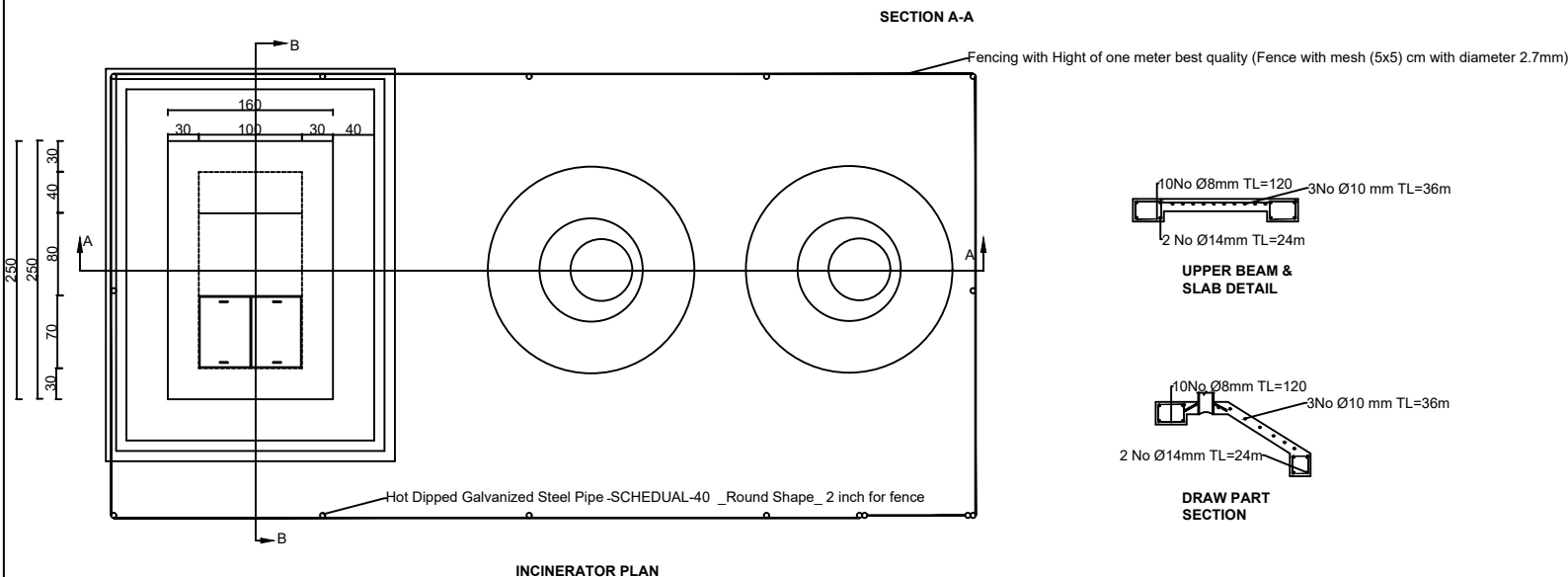
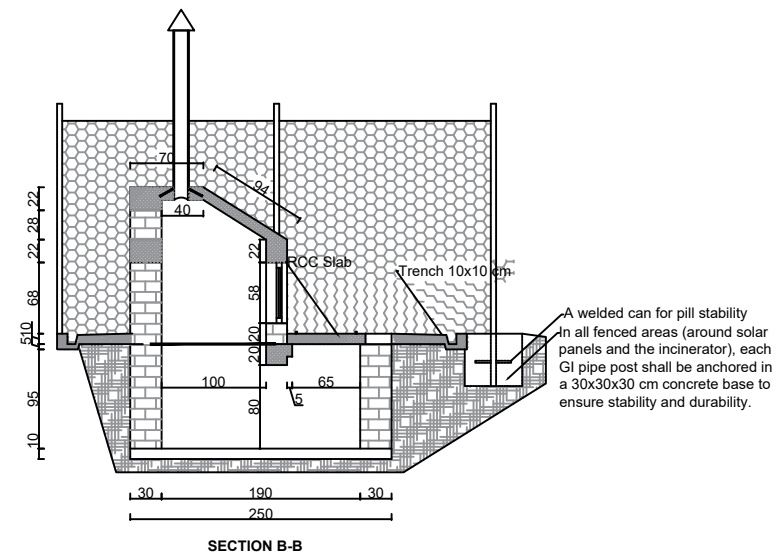
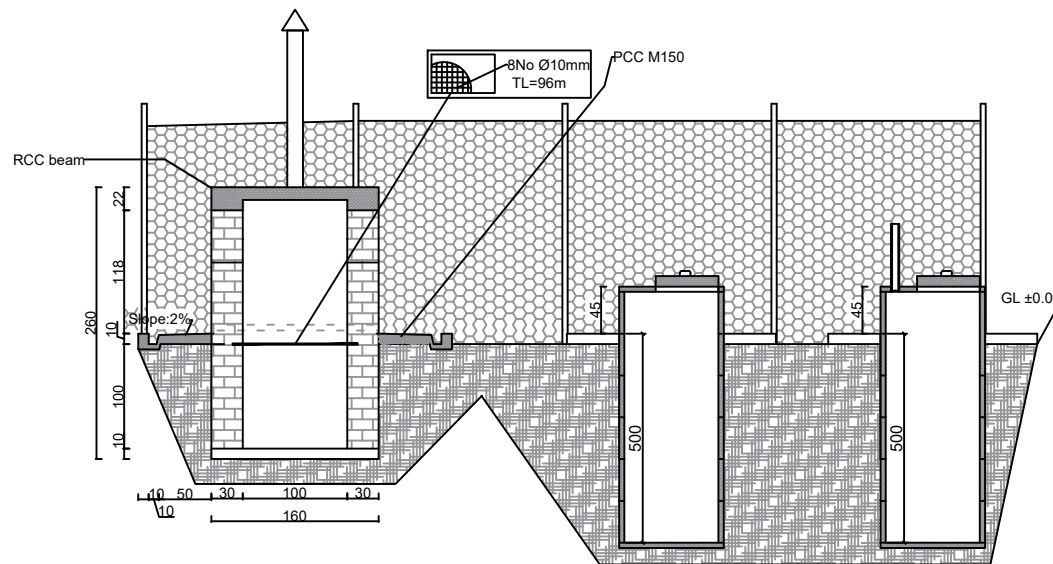
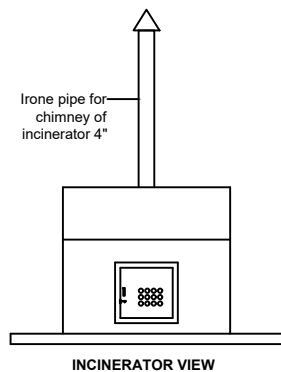
New toilet section 1-1



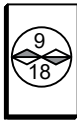
NEW MALE AND FEMALE TOILET Roof Plan and Section

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TASK & RESPOSIBILITIES			DATE	NO OF PAGES 8 18	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael		31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Toilets & sink insralation
DRAWN BY	M.ismael		30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi		-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko		-							



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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	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Incinerator plan & section
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							



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TASK & RESPONSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Google map of Lafra
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							

Legends		
#	Symbols	Caption
1		Masjid
2		House
3		Stand taps
4		Meter box
5		RCC Reservoir
6		Solar Area

Note:

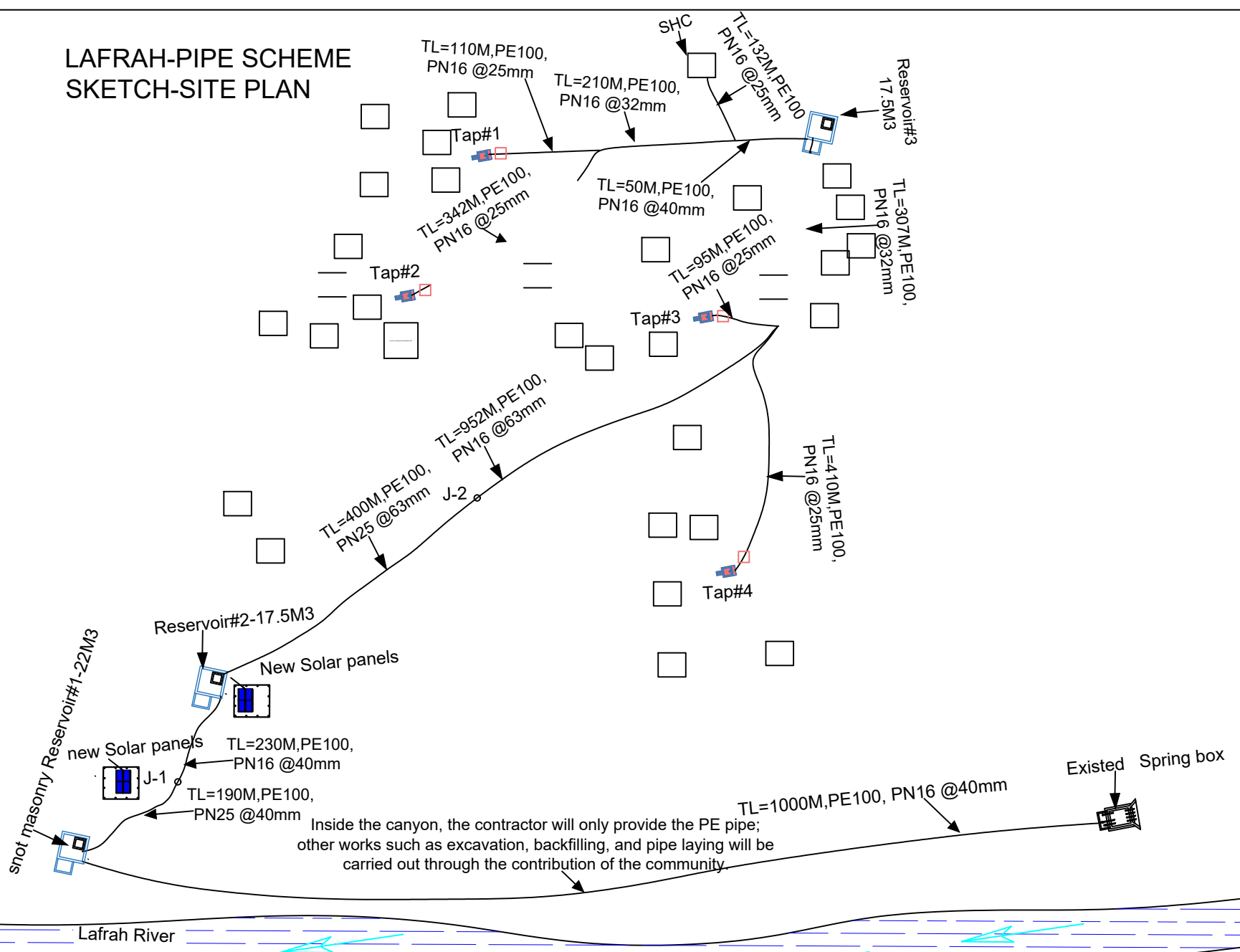
1- From stone masonry reservoir #1 till J-1 up to 190 m must be from PE100 PN 25 @40mm and from J-1 up to reservoir #2, TL=230PE100 PN16 @ 40mm

2- From reservoir #2 till J-2 up to 400 m must be from PE100 PN 25 @63mm and from J-2 up to reservoir #3 from PE100 PN16 @ 40mm

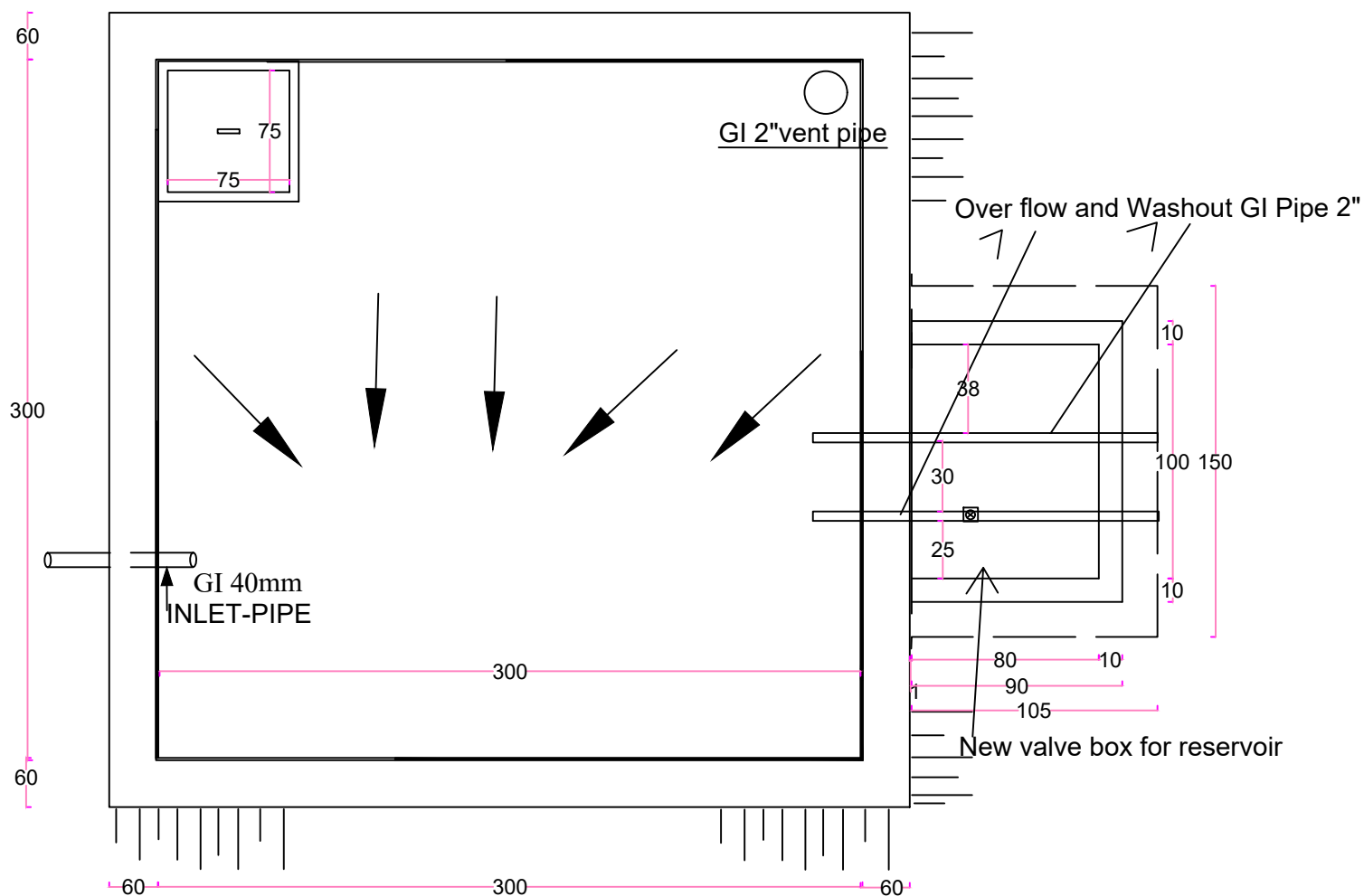
3-In areas where the pipeline passes through rocky terrain, and where excavation of rocks not possible , the contractor is allowed to construct a protective stone wall along the pipeline route to the specified height. This is intended to protect the pipeline against cold weather and other environmental factors.

However, please note that the client will not make any additional payments for this work. Payment will be made strictly based on the contract unit rate per linear meter of excavation as specified in the agreement.

LAFRAH-PIPE SCHEME SKETCH-SITE PLAN



TASK & RESPOSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	site plan for water network
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							



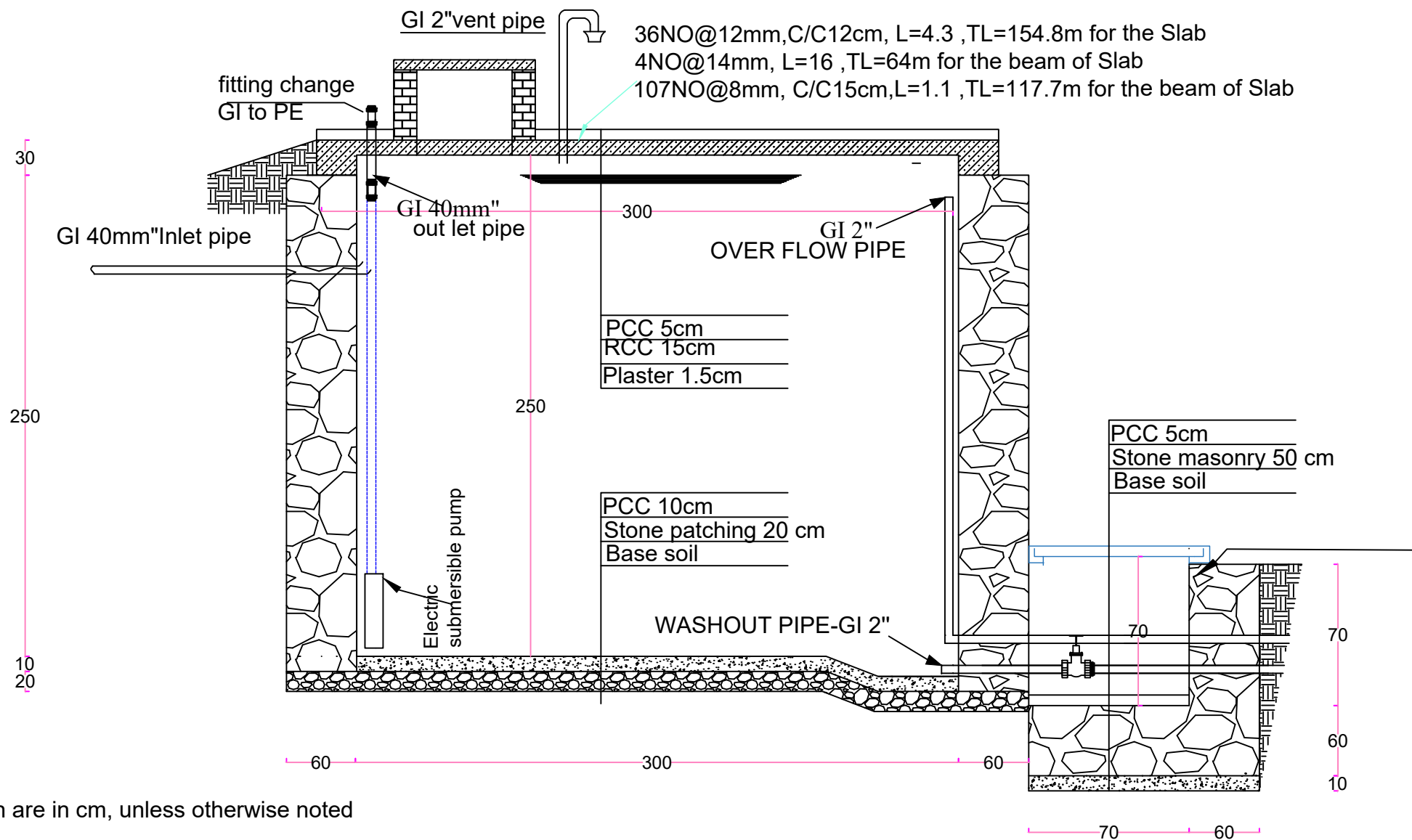
Note:

All dimension are in cm, unless otherwise noted

PLAN FOR STONE MASONRY RESERVOIR #1=22m3

<div> <div>act:onaïd</div> </div>	TASK & RESPOSIBILITIES		DATE	<div> <div>NO OF PAGES</div> <div>12/18</div> </div>	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Plan of reservoir#2
	DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
	REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
	APPROVED BY	Francois Habitegeko	-							

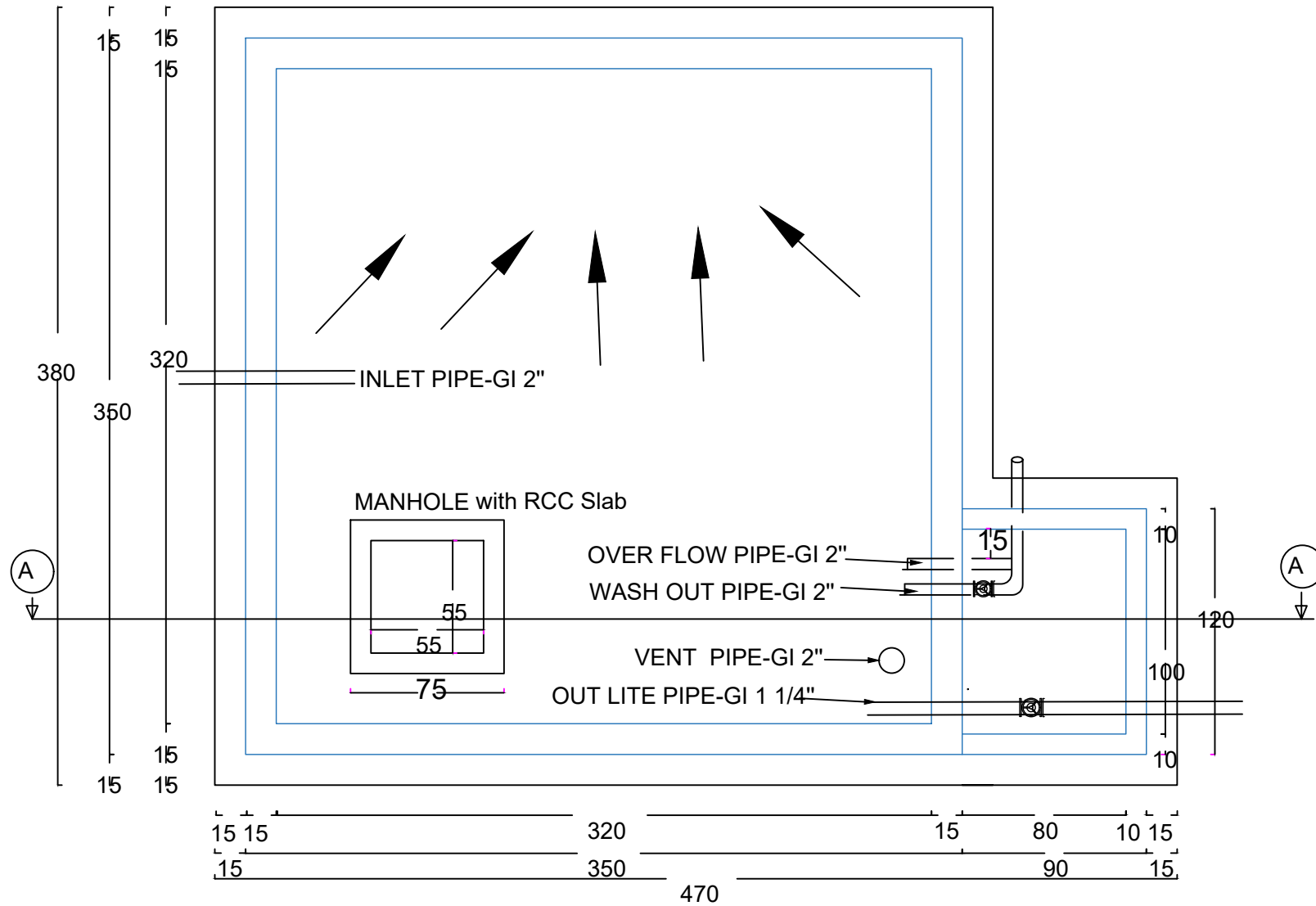
NEW STONE MASONRY WATER RESERVIOR SECTION ,V=22M3 IN THE CONYON



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TASK & RESPOSIBILITIES		DATE	NO OF PAGES 13 18	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Plan of reservoir#2
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							

PLAN FOR 17.5 M3-RCC RESERVOIR #2

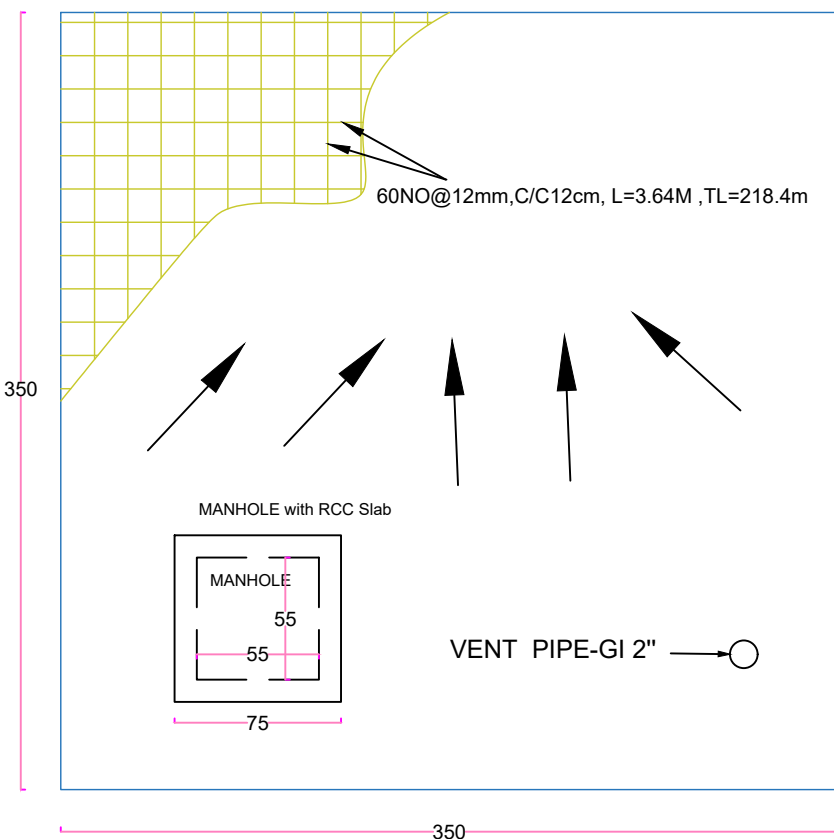


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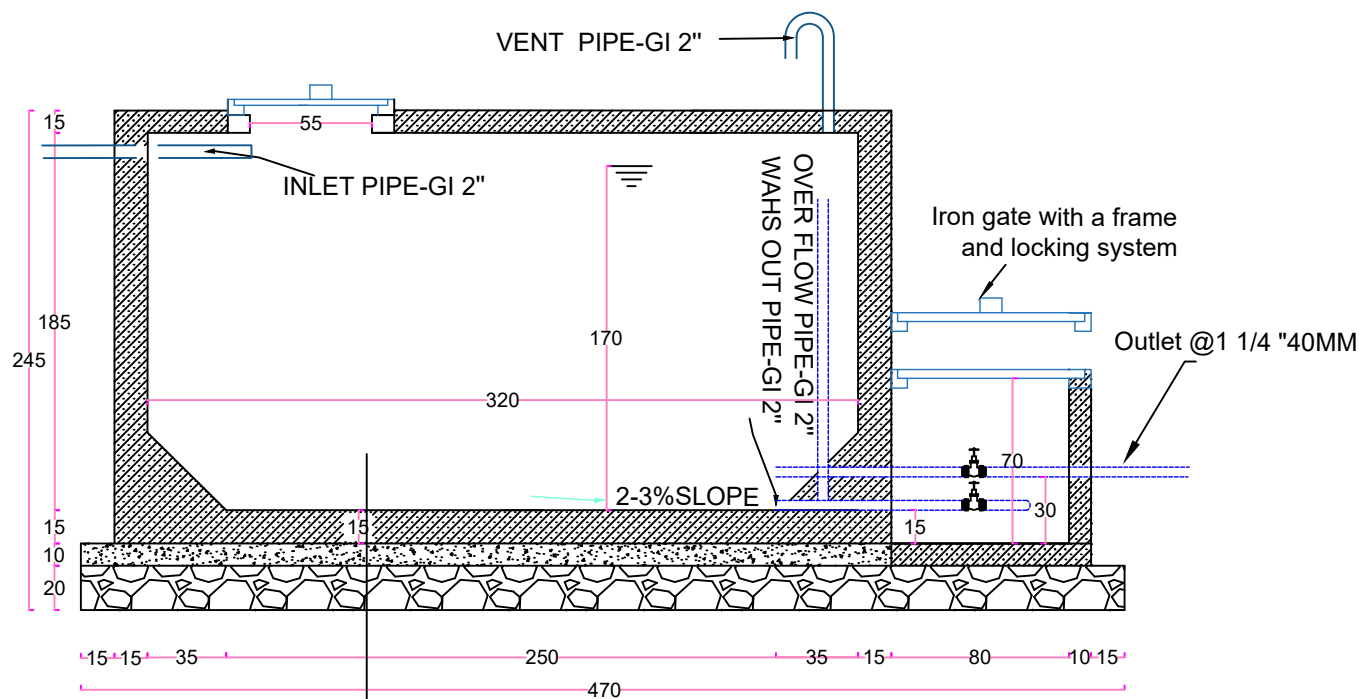
All dimension are in cm, unless otherwise noted

	TASK & RESPOSIBILITIES		DATE	<div>NO OF PAGES</div> <div>14/18</div>	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Plan of reservoir#2
	DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
	REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
	APPROVED BY	Francois Habitegeko	-							

ROOF PLAN FOR 17.5M3-RCC RESERVOIR



SECTION A-A



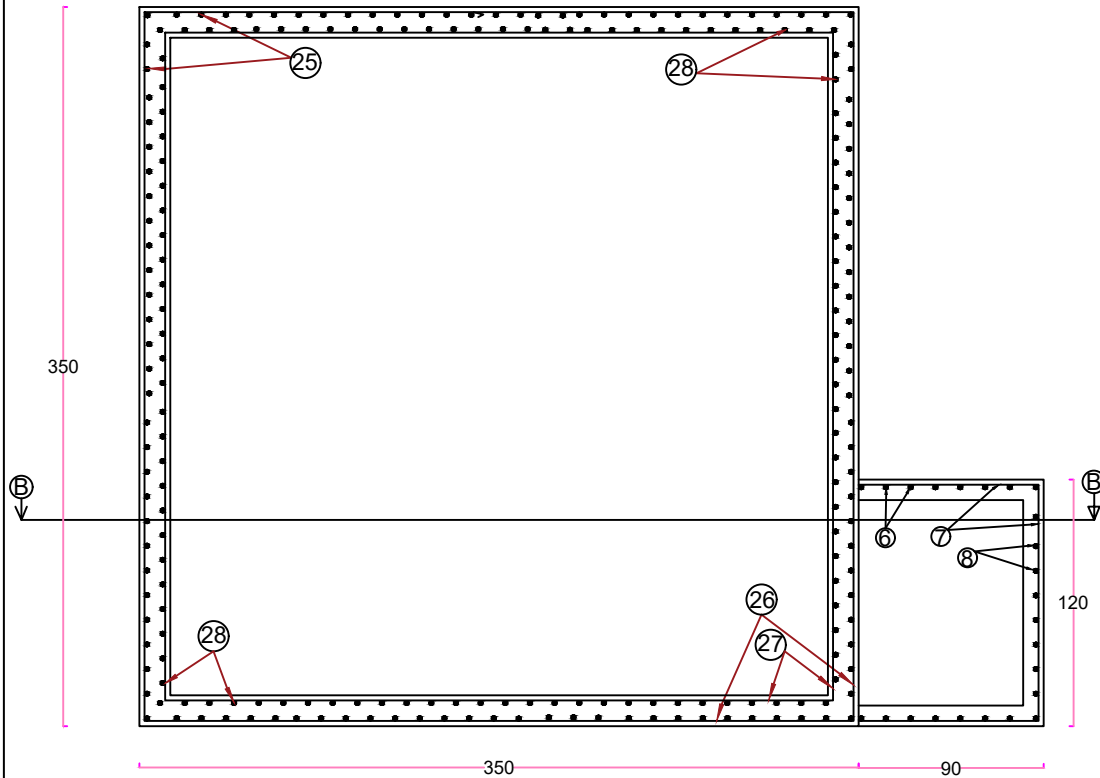
- 1-1.2 CM-PLASTER
- 2-15CM- RCC-M250
- 3- 10CM-PCC-M150
- 4-20CM-STONE PATCHING
- 5-COMPACTED SOIL

Note:
All dimension are in cm, unless otherwise noted

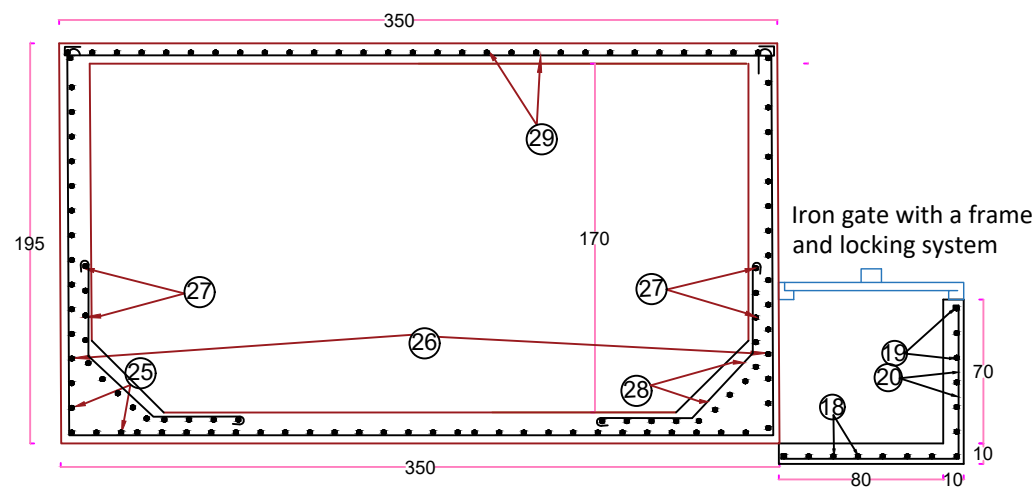
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TASK & RESPOSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Section of reservoir#2
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							


REINFORCEMENT PLAN FOR 17.5M3 RCC RESERVOIR

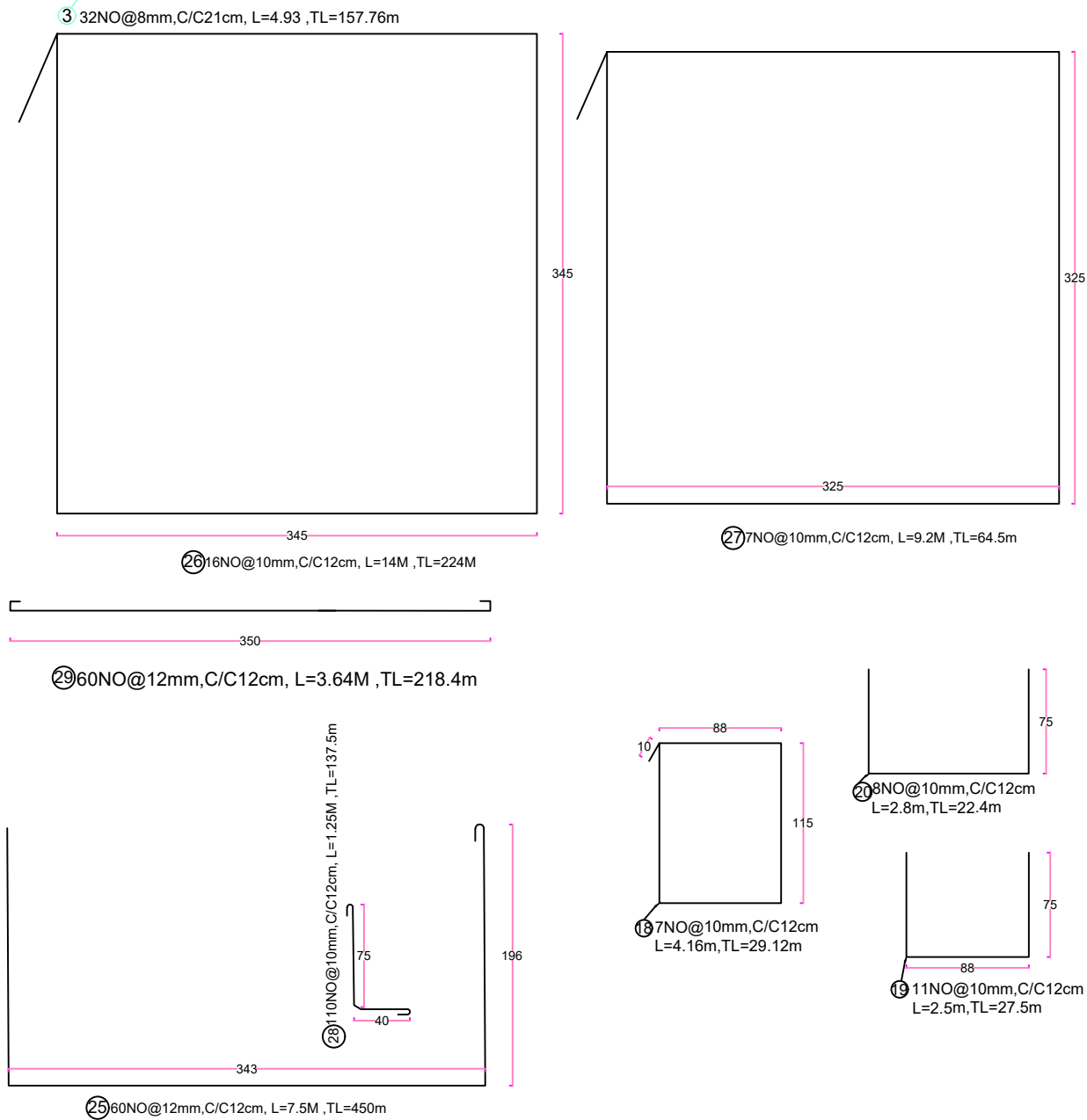


REINFORCEMENT SECTION FOR 17.5M3 RCC RESERVOIR
SECTION B-B



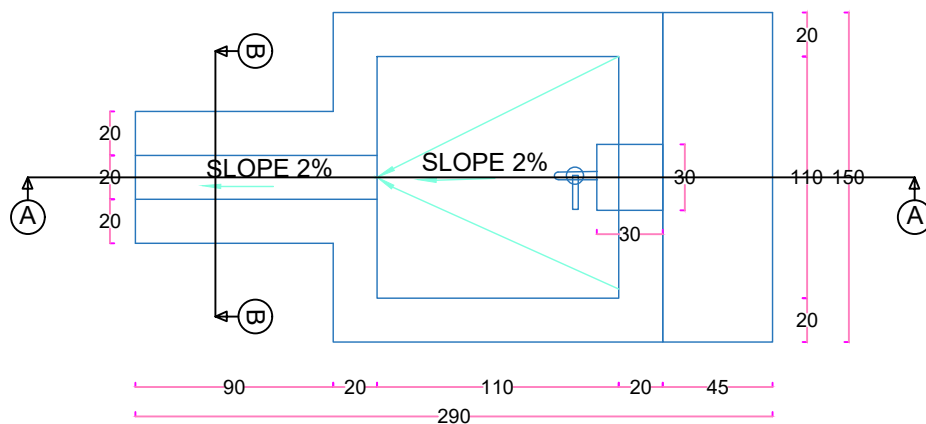
Note:
All dimension are in cm, unless otherwise noted

	TASK & RESPOSIBILITIES		DATE	<div>16 18</div>	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
	SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Reinforcement of reservoir#2
	DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
	REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
	APPROVED BY	Francois Habitegeko	-							

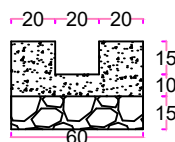


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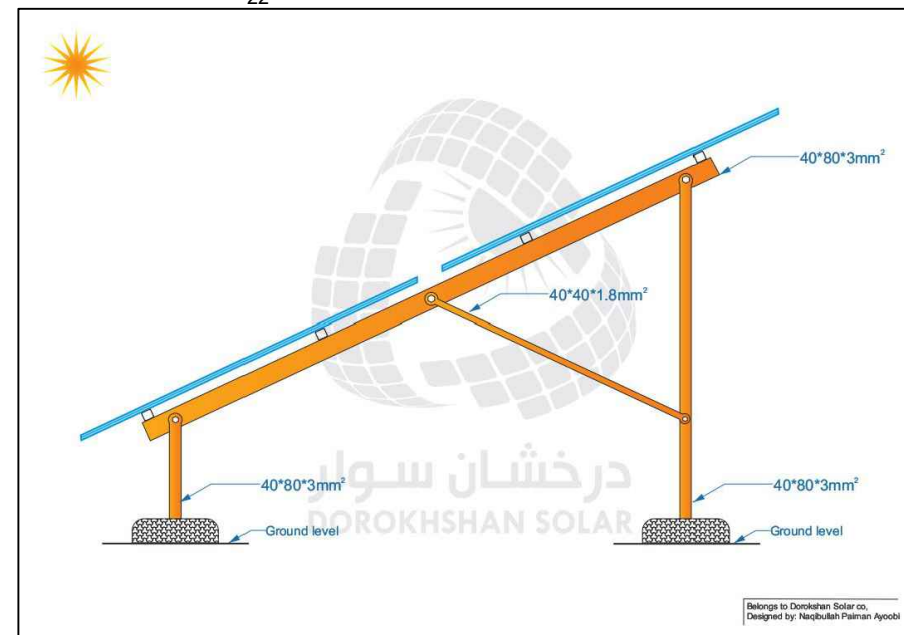
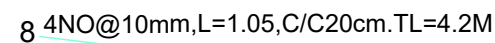
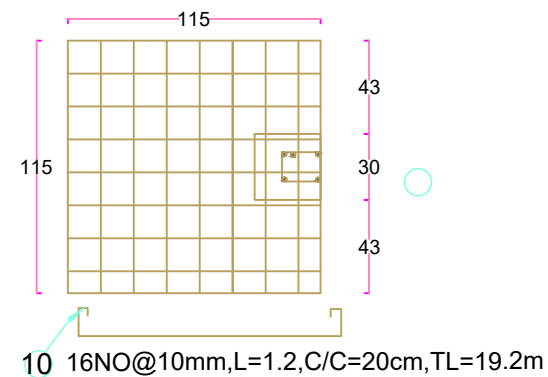
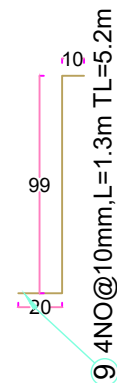
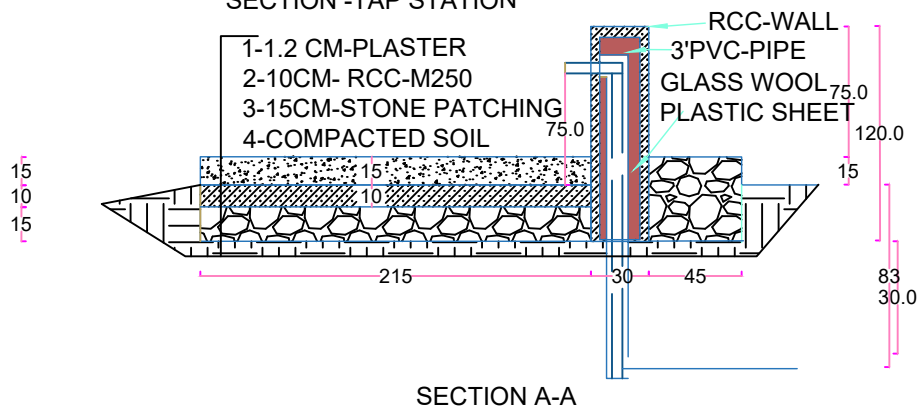
TASK & RESPONSIBILITIES		DATE	NO OF PAGES	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Reinforcement of reservoir#2
DRAWN BY	M.ismael	30-06-2024	17 18	HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							



SECTION B-B



SECTION -TAP STATION



Note:
All dimension are in cm, unless otherwise noted

act:onaïd

TASK & RESPOSIBILITIES		DATE	NO OF PAGES 	PROVINCE	Ghor	SCALE	1:100	PROJECT SUB TITLE	Major maintenace of HCF-WASH sector
SURVEYED BY	M.Ismael	31-05-2024		DISTRICT	Firozkoh	START DATE	----	DRAWING TYPE	Public stand tap
DRAWN BY	M.ismael	30-06-2024		HCF NAME	Lafrah	END DATE	----	E	64° 41' 17"
REVIEWED BY	Farid Ahmad Qaderi	-		HCF TYPE	SHC	PROJECT TITLE	----	N	35° 07' 44"
APPROVED BY	Francois Habitegeko	-							