



Khogyani BHC

DRAWINGS

AS- BUILT & NEW STRUCTURES

Gulran, Herat, AFGHANISTAN

Identified Gaps for Existing WASH Services in Khogyani Gulran BHC:

- 1- The building water supply is not functional but need to be connected to the water sources and the waste water system is not systematic, it need to be connected to the septic tank.
- 2- Water well is existed in the clinic and water reservoir is not sufficient for all component.
- 3- The building has water source but not working correctly and has leakage.
- 4- the main building doesn't have tiles and ceramic in the multiple rooms just one emergency room has.
- 5- all Toilets are not pour flashed toilets they are elevated pit latrine and for disable the both male and female toilets are damage all need for repairing.
- 6- The waste management system is not functional and need to be connect for new septic tank.
- 7-There is not a septic tank inside the clinic, the female toilet has elevated pit latrine, and male toilets has waste pit.

Solution:

- 1- Repairing of clinic water supply and waste water system like: plumbing the hot and cold water from the water sources to the sinks and flash tanks and directing the waste water to the septic tank
- 2- Construction of septic tank and soak away pit for waste water network, due to all the female toilets don't have any pit or septic tank to connect on that. all toilets, drain swap and sinks are connect to new septic tank.
- 3- we consider solar power system for new water pump and electricity for main and delivery building.
- 4- Installation of sinks and Floor Drains for the new bath room and existing toilets for hand washing facility.
- 5- repairing all toilets with new facilities, such as sink, new taps, waste pipe, water pipe (hot and cold), tiles.
- 6- consider two water reservoir with capacity of 2 and 3 cubic meter, one is in main building the other is in delivery building.
- 7- construction of fences for incinerator, ash, sharp, placenta pits.
- 8- consider for main building tiles and ceramic.
- 9- Construction of waste management structure in the clinic.

| | | | | | | | | | | |
|--|-------------------------|--|------------|---------------------------------------|-------------|----------|---------------|------------|--------------|------------|
| | TASK & RESPONSIBILITIES | | DATE | <div>NO OF PAGE</div> <div>0108</div> | PROVINCE | HERAT | SCALE | 1:100 | DRAWING TYPE | Cover page |
| | SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 | | DISTRICT | GULRAN | START DATE | 15-07-2024 | E | 35.098016 |
| | DROWN BY | ENG. MUSTAFA MUSLEH | 15-07-2024 | | CLINIC | KHOGYANI | END DATE | 15-07-2024 | N | 61.68512 |
| | REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 | | CLINIC TYPE | BHC | PROJECT TITLE | UPGRADING | | |
| | APPROVED BY | SIMON WANKURU | 17-07-2024 | | | | | | | |



Note:

All these component are existed in this BHC

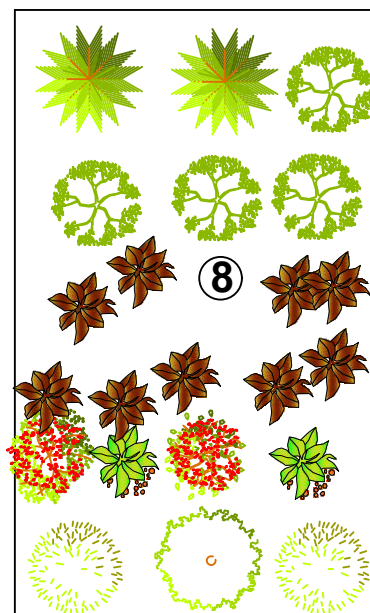
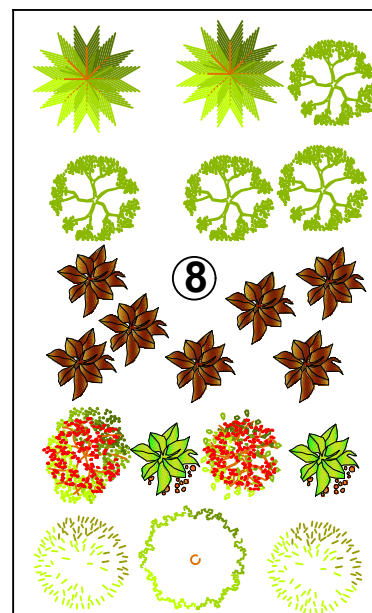
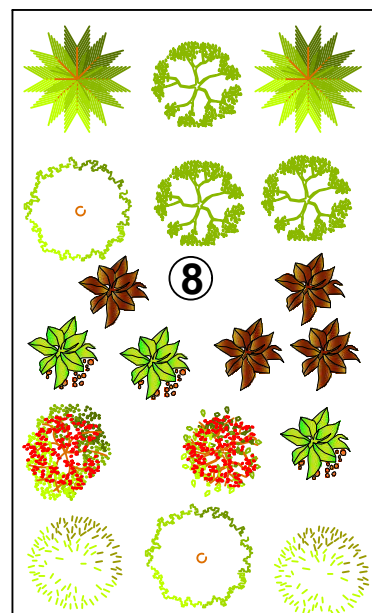
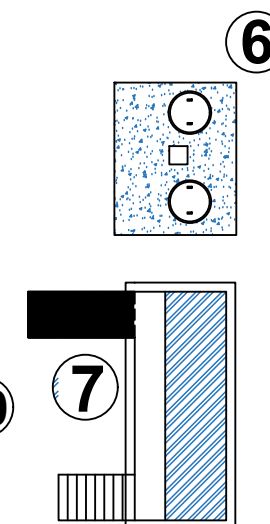
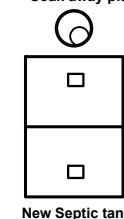
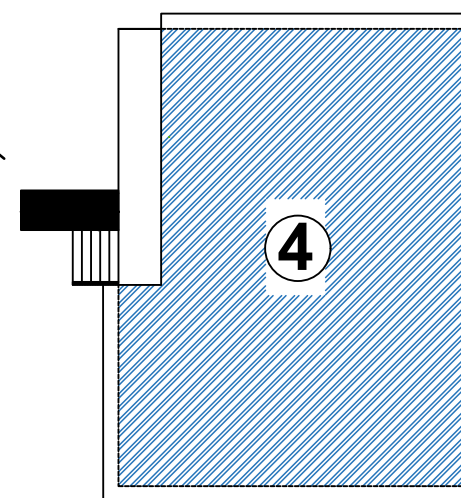
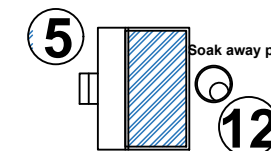
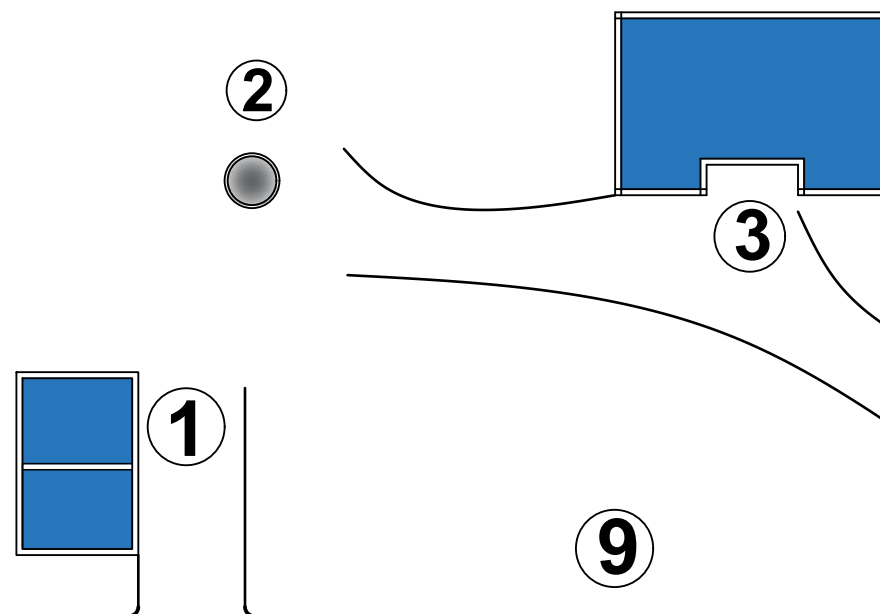
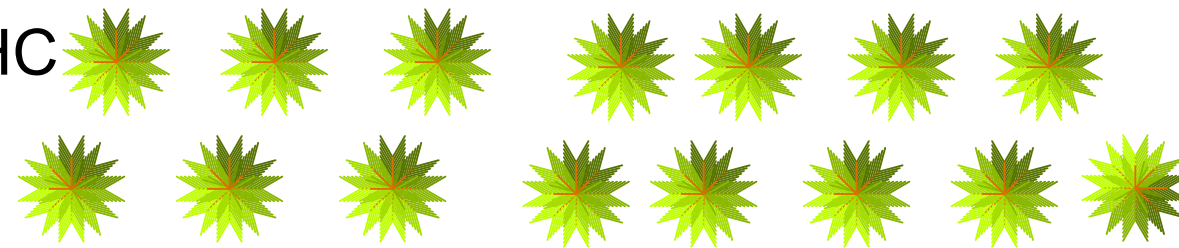
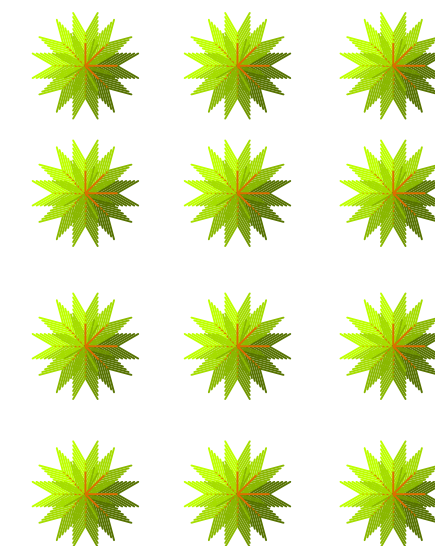


Table of content

| | |
|----|--|
| 1 | Guard room |
| 2 | Exist water well |
| 3 | Delivery building |
| 4 | Main building |
| 5 | Male toilets |
| 6 | Incinerator, ash, sharp and placenta pit |
| 7 | Exist female toilets without septic tank |
| 8 | Tree and flower garden |
| 9 | Road to clinic |
| 10 | New Septic Tank |
| 11 | New soak away pit |
| 12 | New soak away pit |

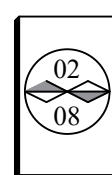


act:onaid

TASK & RESPONSIBILITIES

| | | |
|-------------|--|------------|
| SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 |
| DROWN BY | ENG. MUSTAFA MUSLEH | 15-07-2024 |
| REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 |
| APPROVED BY | SIMON WANKURU | 17-07-2024 |

NO OF
PAGE



PROVINCE

HERAT

SCALE

1:100

DRAWING
TYPE

Site Plan

DISTRICT

GULRAN

START DATE

15-07-2024

E

35.098016

CLINIC

KHOGYANI

END DATE

15-07-2024

N

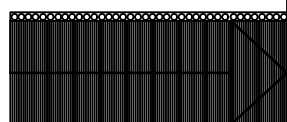
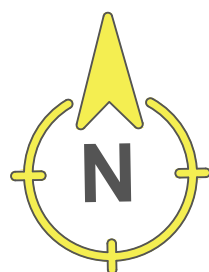
61.68512

CLINIC TYPE

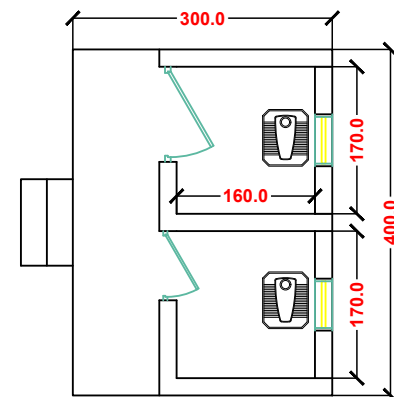
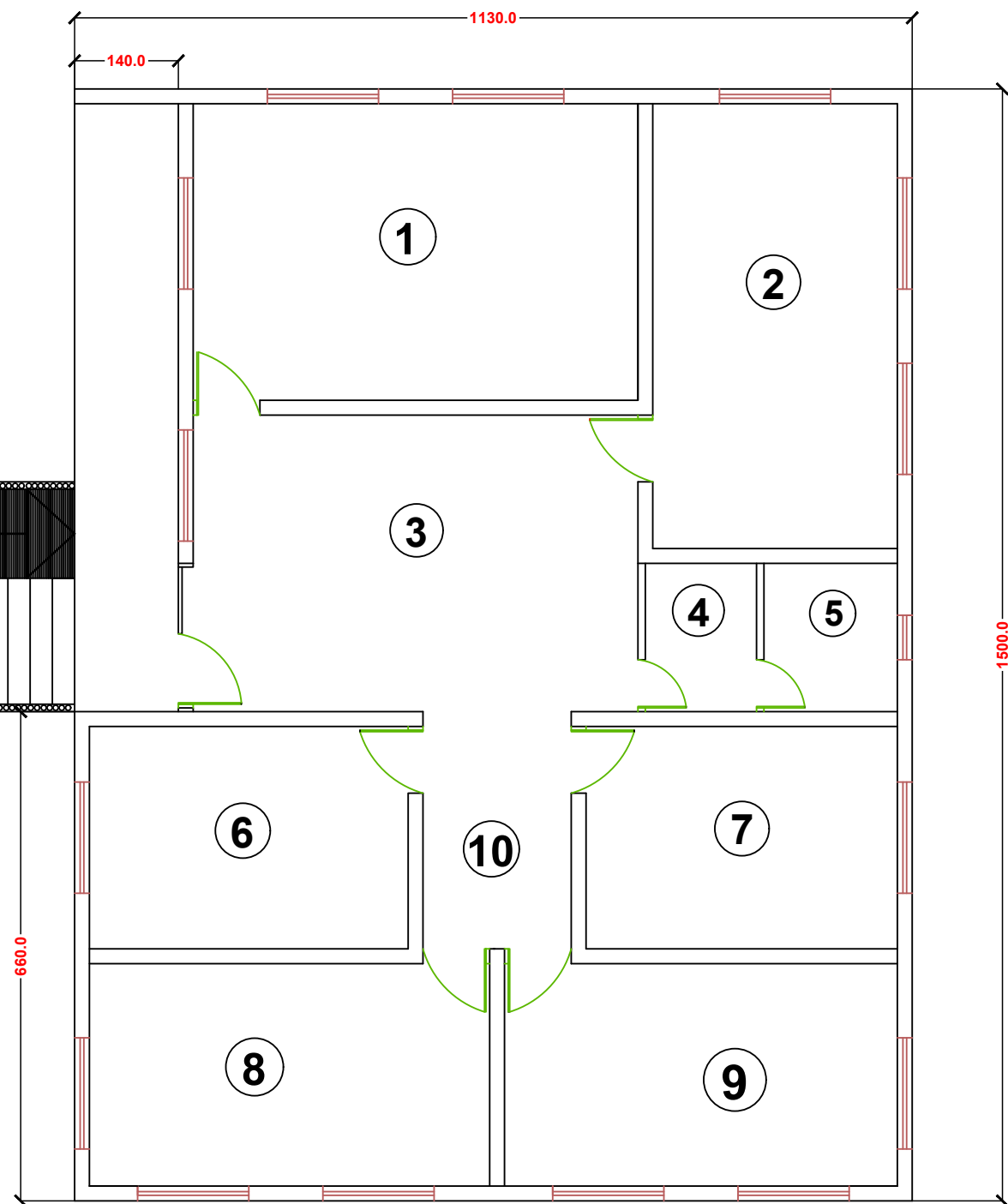
BHC

PROJECT
TITLE

UPGRADING

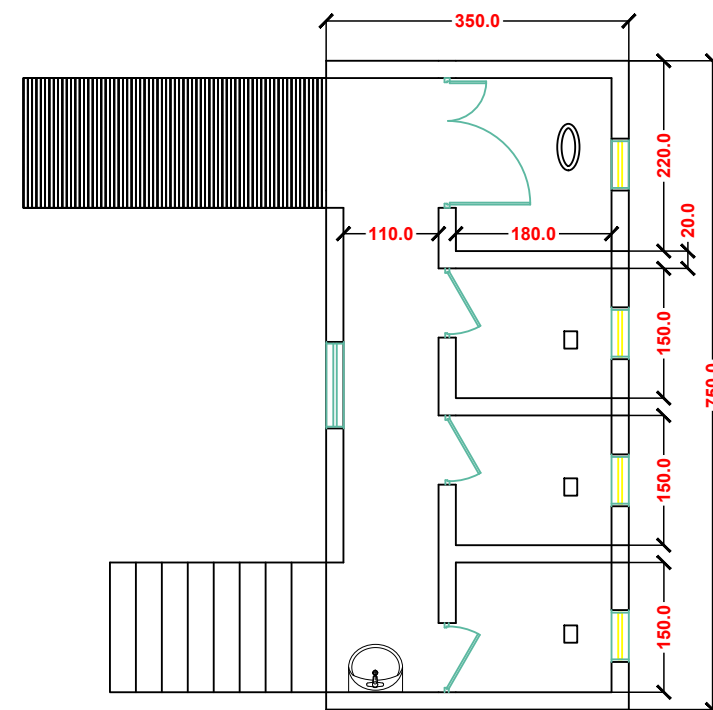


11



Existed Toilet for male

Note:
1-All Dimensions are in (cm)
2- Exist toilets are not adequate for clinics, those toilets don't have any facilities.



Existed Toilet for Female

| Table of content for main building plan | | |
|---|----------------------------|------------|
| 1 | Pharmacy room | 400x600 cm |
| 2 | OPD room | 330x600 cm |
| 3 | Main corridor | 600x430 cm |
| 4 | hand wash sink | 120x200 cm |
| 5 | Bathroom & WC | 180x200 cm |
| 6 | Vaccination room | 300x430 cm |
| 7 | CHS room | 300x430 cm |
| 8 | Nutrition room | 300x530 cm |
| 9 | Emergency room | 300x530 cm |
| 10 | Small Corridor | 250x350 cm |
| 11 | Stair and ramp for disable | 310x320 cm |

| | | | | | | | | | | |
|--|-------------------------|--|------------|--|-------------|----------|---------------|------------|--------------|--------------------|
| | TASK & RESPONSIBILITIES | | DATE | | PROVINCE | HERAT | SCALE | 1:100 | DRAWING TYPE | Main Building Plan |
| | SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 | | DISTRICT | GULRAN | START DATE | 15-07-2024 | E | 35.098016 |
| | DROWN BY | ENG. MUSTAFA MUSLEH | 15-07-2024 | | CLINIC | KHOGYANI | END DATE | 15-07-2024 | N | 61.68512 |
| | REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 | | CLINIC TYPE | BHC | PROJECT TITLE | UPGRADING | | |
| | APPROVED BY | SIMON WANKURU | 17-07-2024 | | | | | | | |

- Note:
- 1-All Dimensions are in (cm)
 - 2- the main building tiles and ceramic are existed for emergency room and bathroom with hand washing sink
 - 3- the others rooms are not existed and need for tiles and ceramic.

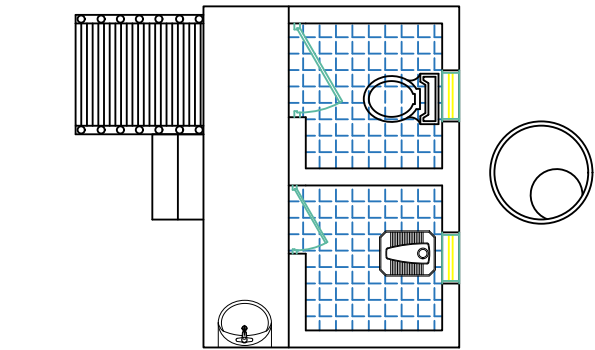
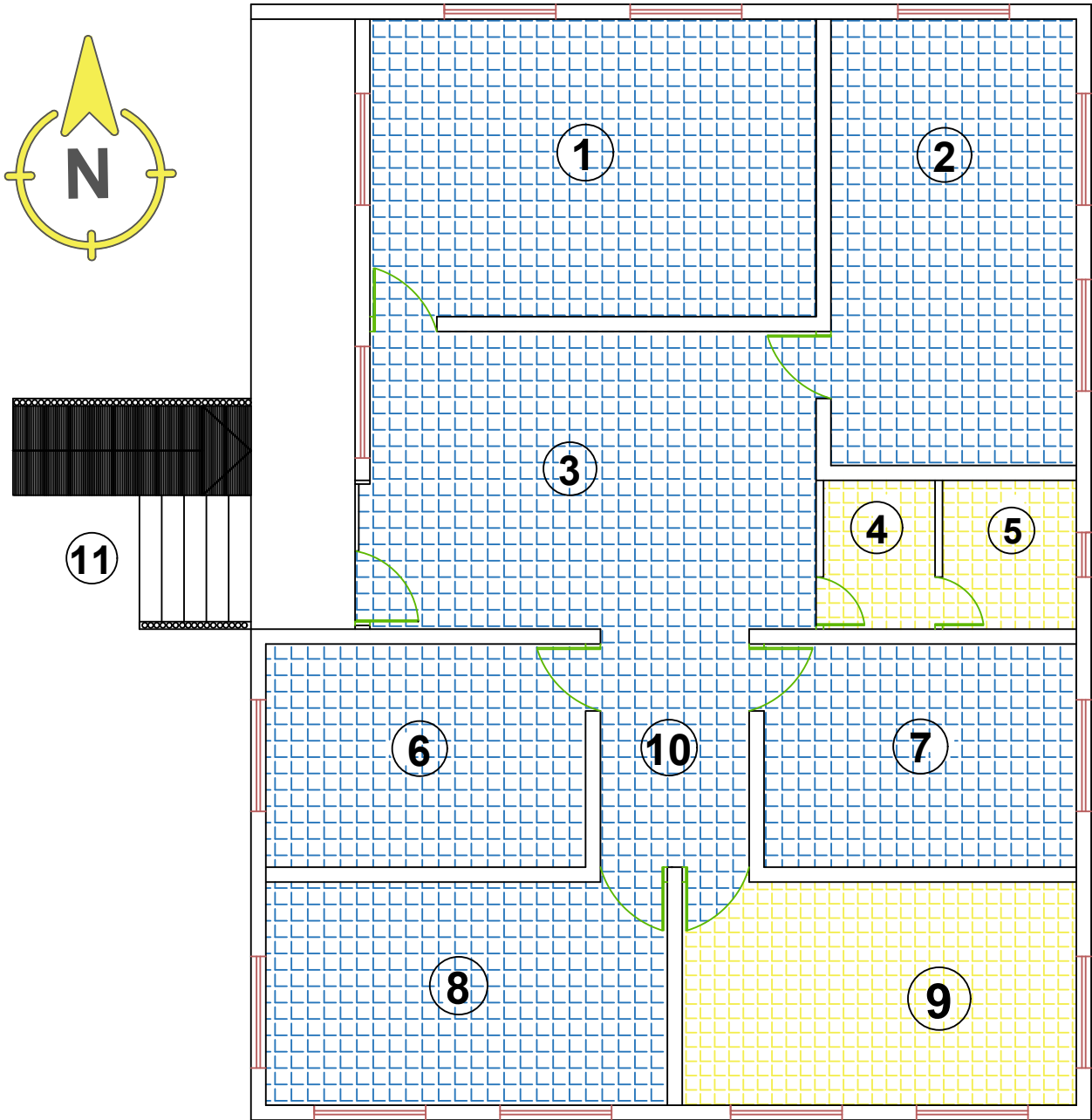
Legend

Exist Ceramic

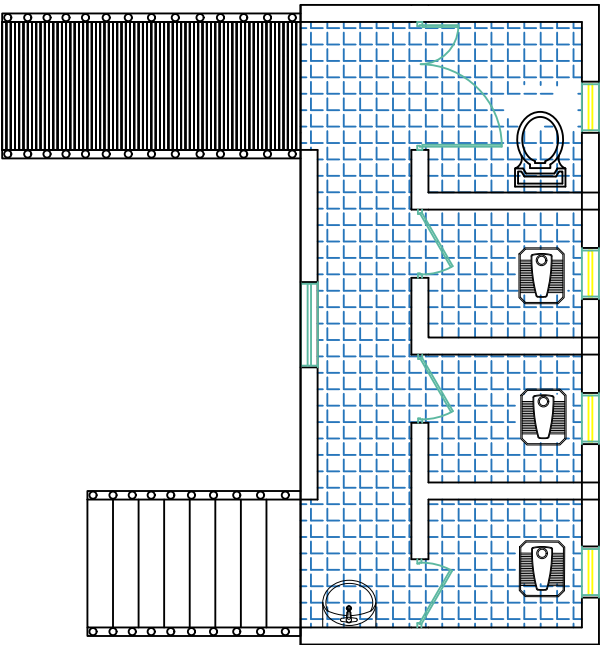
New Ceramic

Plan

| Table of content for main building plan | | |
|---|----------------------------|------------|
| 1 | Pharmacy room | 400x600 cm |
| 2 | OPD room | 330x600 cm |
| 3 | Main corridor | 600x430 cm |
| 4 | hand wash sink | 120x200 cm |
| 5 | Bathroom & WC | 180x200 cm |
| 6 | Vaccination room | 300x430 cm |
| 7 | CHS room | 300x430 cm |
| 8 | Nutrition room | 300x530 cm |
| 9 | Emergency room | 300x530 cm |
| 10 | Small Corridor | 250x350 cm |
| 11 | Stair and ramp for disable | 310x320 cm |



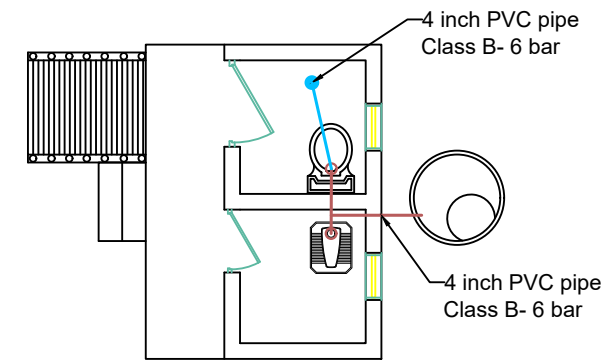
Existed Toilet for male



Existed Toilet for Female

| | | | | | | | | | | |
|--|-------------------------|--|------------|----------------|-------------|----------|---------------|------------|--------------|--------------------------------------|
| | TASK & RESPONSIBILITIES | | DATE | NO OF PAGE | PROVINCE | HERAT | SCALE | 1:100 | DRAWING TYPE | Main Building tiles and ceramic Plan |
| | SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 | | DISTRICT | GULRAN | START DATE | 15-07-2024 | E | 35.098016 |
| | DROWN BY | ENG. MUSTAFA MUSLEH | 15-07-2024 | | CLINIC | KHOGYANI | END DATE | 15-07-2024 | N | 61.68512 |
| | REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 | | CLINIC TYPE | BHC | PROJECT TITLE | UPGRADING | | |
| | APPROVED BY | SIMON WANKURU | 17-07-2024 | | | | | | | |

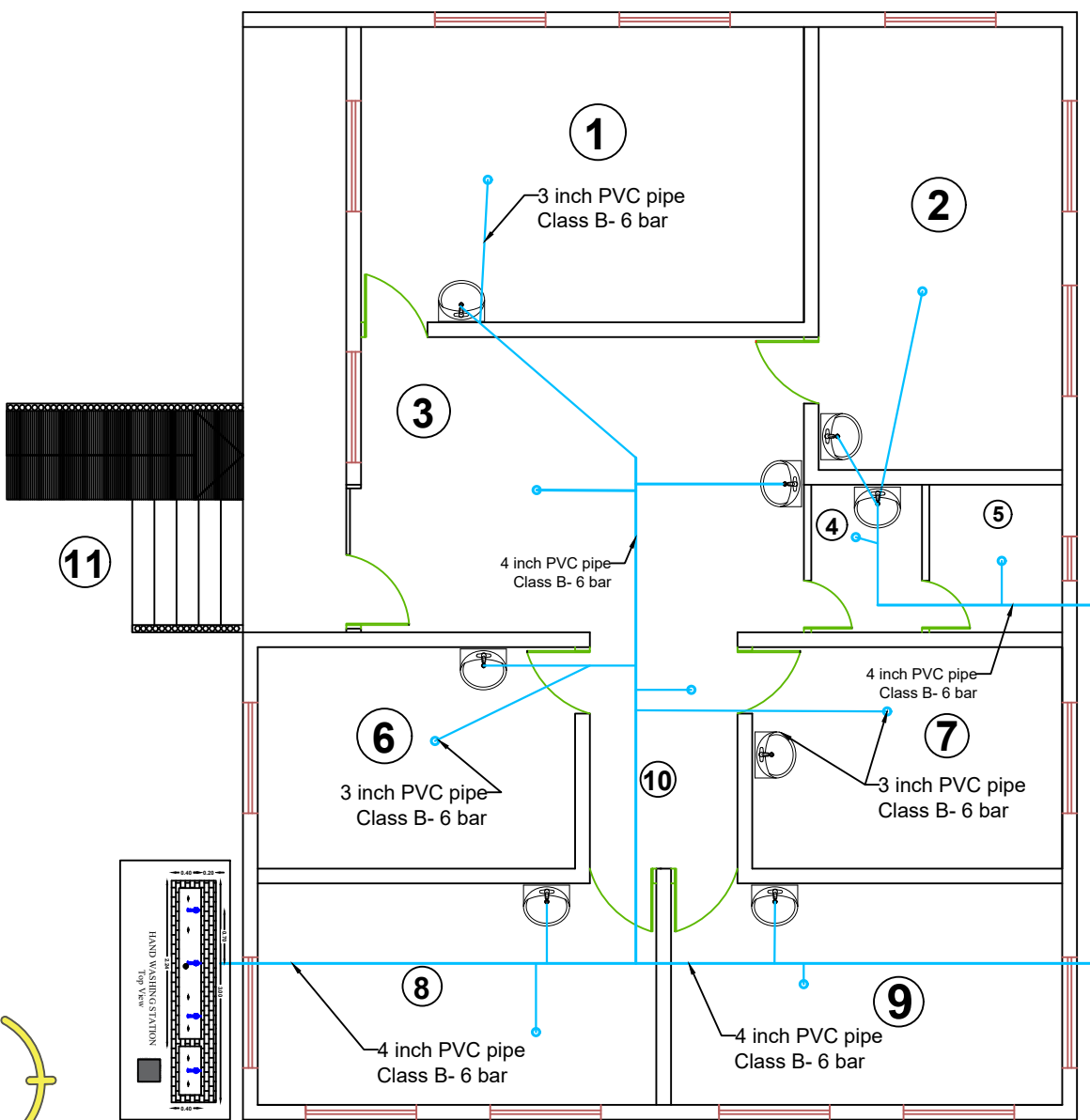
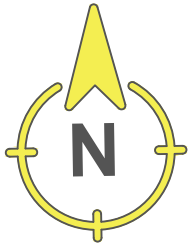
- Note:
- 1- All dimensions are in (cm)
 - 2-in main building hand washing sinks has leakage.
 - 3-we have to demolition surface of each room due to ceramic working.
 - 4-we consider standard sewer pipe for all building rooms and change all existed sever pipe for new one.
 - 5- Consider new Septic tank and soak away pit for waste water and toilets.



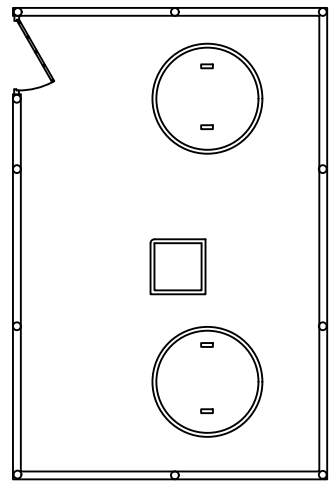
Existed Toilet for male

| Legend | |
|------------------------------|--|
| 3" PVC pipe Class B- 6bar | |
| 4" PVC pipe Class B- 6bar | |
| Floor Drain 3" | |

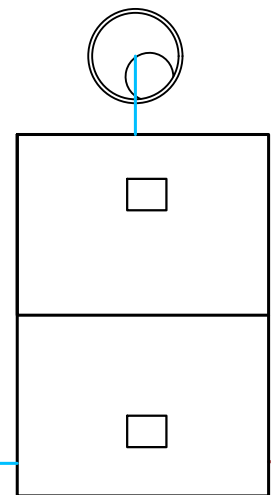
| Table of content for main building plan | | |
|---|----------------------------|------------|
| 1 | Pharmacy room | 400x600 cm |
| 2 | OPD room | 330x600 cm |
| 3 | Main corridor | 600x430 cm |
| 4 | hand wash sink | 120x200 cm |
| 5 | Bathroom & WC | 180x200 cm |
| 6 | Vaccination room | 300x430 cm |
| 7 | CHS room | 300x430 cm |
| 8 | Nutrition room | 300x530 cm |
| 9 | Emergency room | 300x530 cm |
| 10 | Small Corridor | 250x350 cm |
| 11 | Stair and ramp for disable | 310x320 cm |



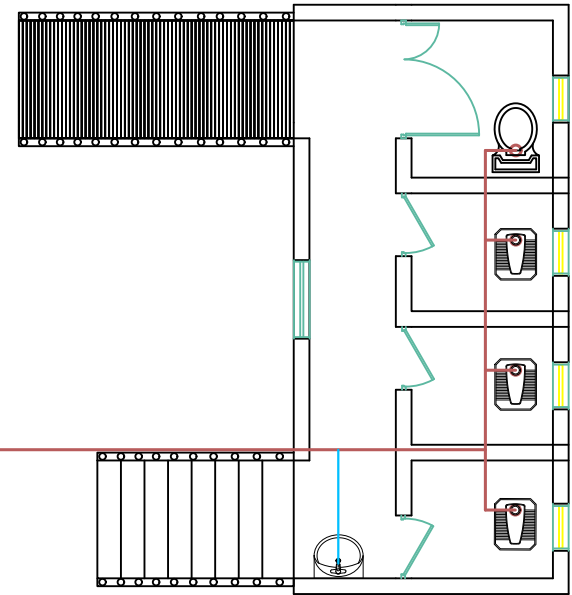
Incinerator, ash pit, sharp material pit, and placenta pit



Soak away pit



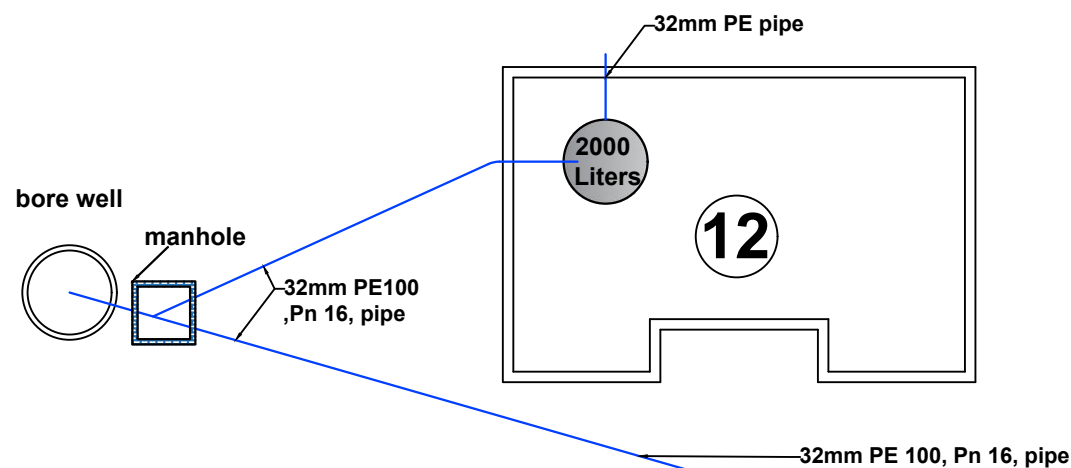
New Septic tank



4 inch PVC pipe
Class B- 6 bar

Existed Toilet for Female

| | TASK & RESPONSIBILITIES | | DATE | NO OF PAGE | PROVINCE | HERAT | SCALE | 1:100 | DRAWING TYPE | Main Building Waste water Plan |
|--|-------------------------|--|------------|----------------|-------------|----------|---------------|------------|--------------|--------------------------------|
| | SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 | | DISTRICT | GULRAN | START DATE | 15-07-2024 | E | 35.098016 |
| | DROWN BY | ENG. MUSTAFA MUSLEH | 15-07-2024 | | CLINIC | KHOGYANI | END DATE | 15-07-2024 | N | 61.68512 |
| | REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 | | CLINIC TYPE | BHC | PROJECT TITLE | UPGRADING | | |
| | APPROVED BY | SIMON WANKURU | 17-07-2024 | | | | | | | |

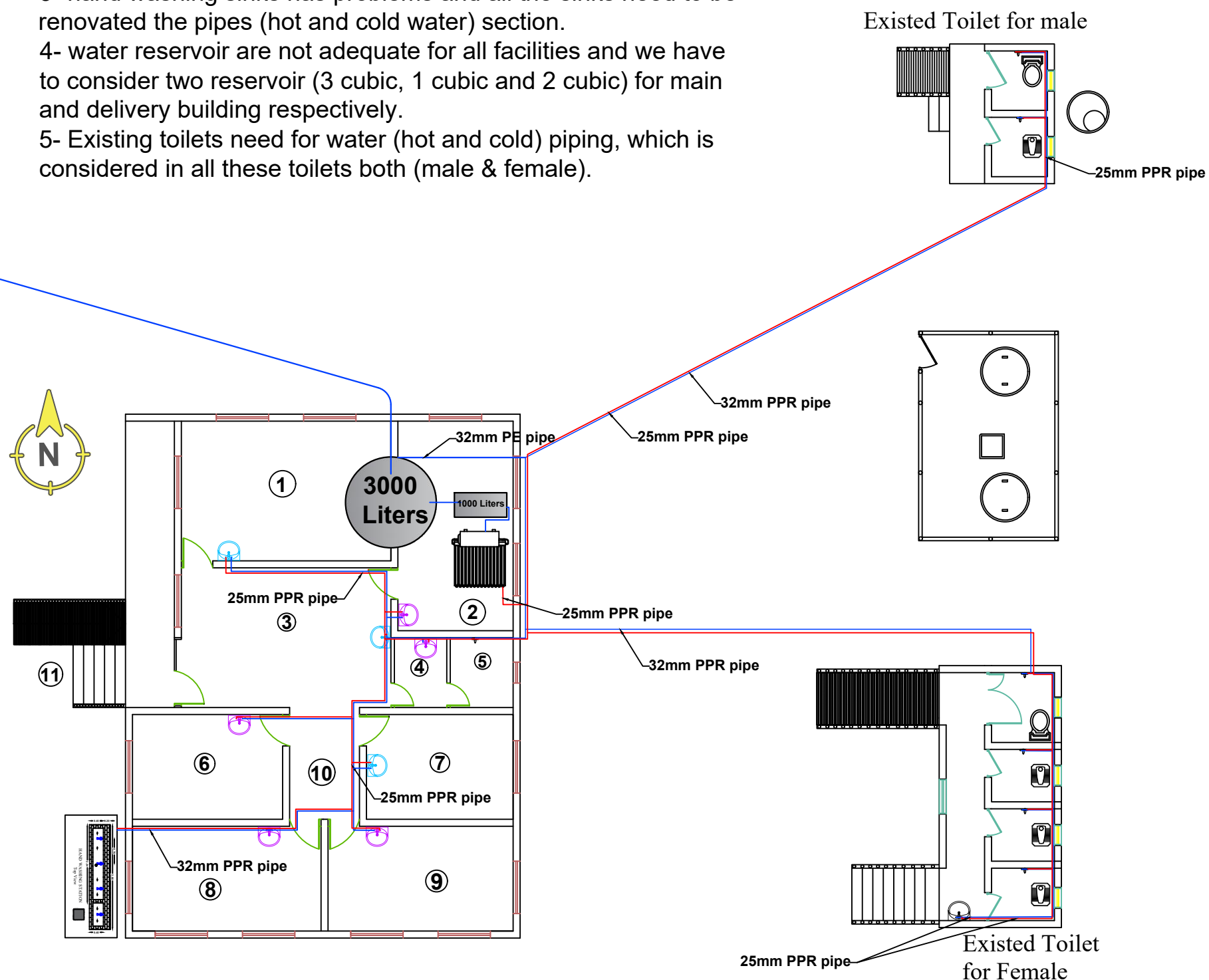


| Legend | |
|--------------------------|--|
| 32mm PE 100, Pn 16, Pipe | |
| 32mm PPR Pipe cold water | |
| 25mm PPR Pipe | |
| Solar water boiler | |
| Exist hand washing sinks | |
| New hand washing sinks | |

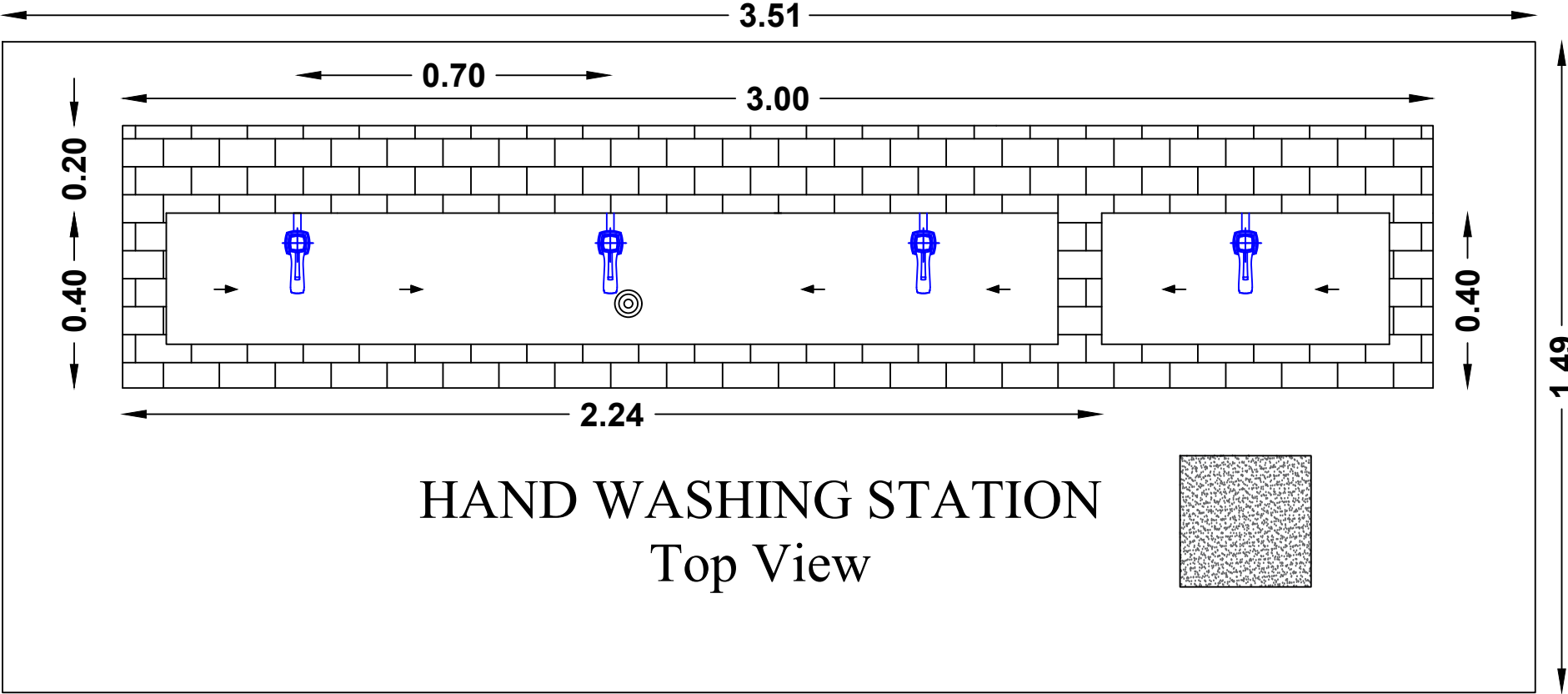
| Table of content for main building plan | | |
|---|----------------------------|------------|
| 1 | Pharmacy room | 400x600 cm |
| 2 | OPD room | 330x600 cm |
| 3 | Main corridor | 600x430 cm |
| 4 | hand wash sink | 120x200 cm |
| 5 | Bathroom & WC | 180x200 cm |
| 6 | Vaccination room | 300x430 cm |
| 7 | CHS room | 300x430 cm |
| 8 | Nutrition room | 300x530 cm |
| 9 | Emergency room | 300x530 cm |
| 10 | Small Corridor | 250x350 cm |
| 11 | Stair and ramp for disable | 310x320 cm |
| 12 | Delivery Building | 600x900 cm |

Note:

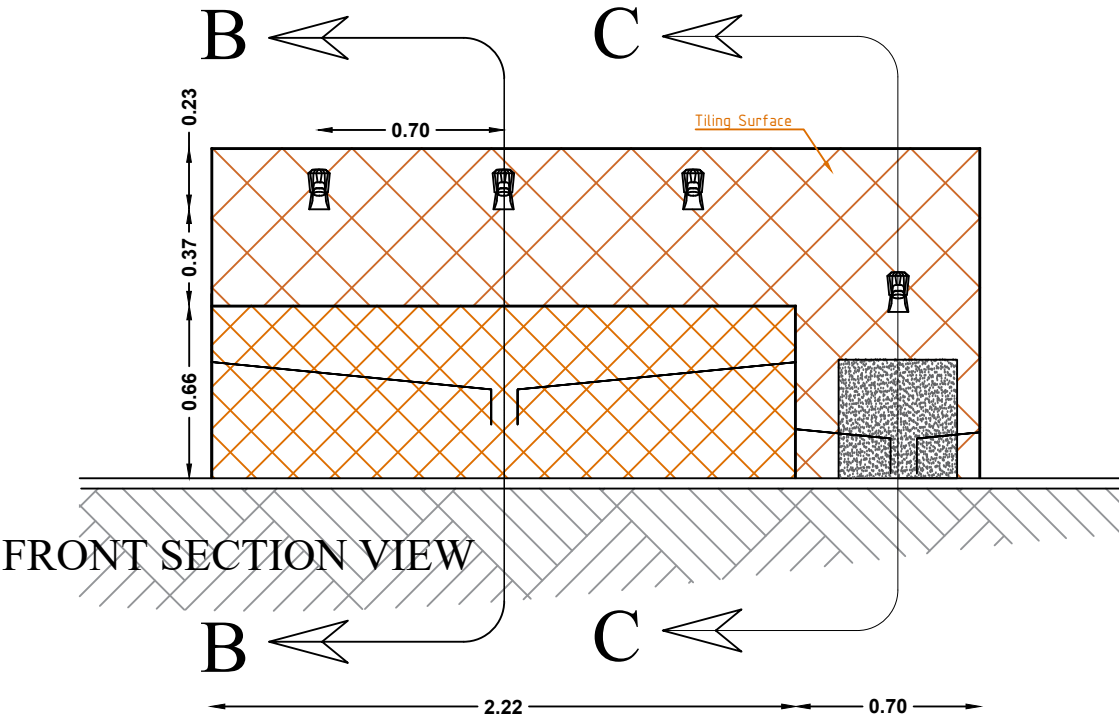
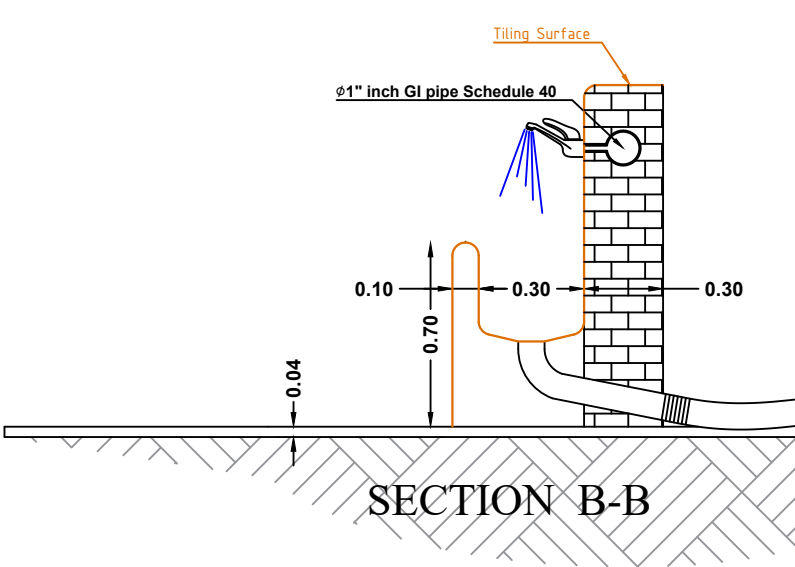
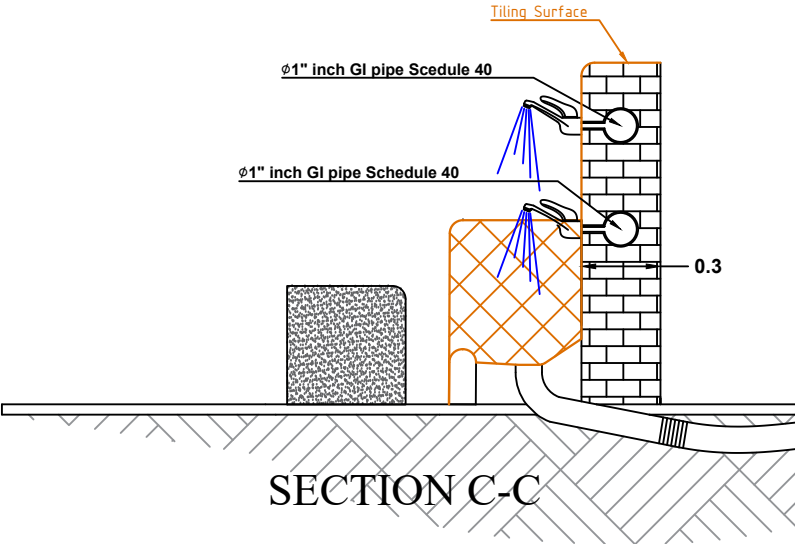
- 1- All dimensions are in (cm)
- 2- BHC has bore well, all facilities (such us main building, delivery building and all toilets) use from this bore well.
- 3- hand washing sinks has problems and all the sinks need to be renovated the pipes (hot and cold water) section.
- 4- water reservoir are not adequate for all facilities and we have to consider two reservoir (3 cubic, 1 cubic and 2 cubic) for main and delivery building respectively.
- 5- Existing toilets need for water (hot and cold) piping, which is considered in all these toilets both (male & female).



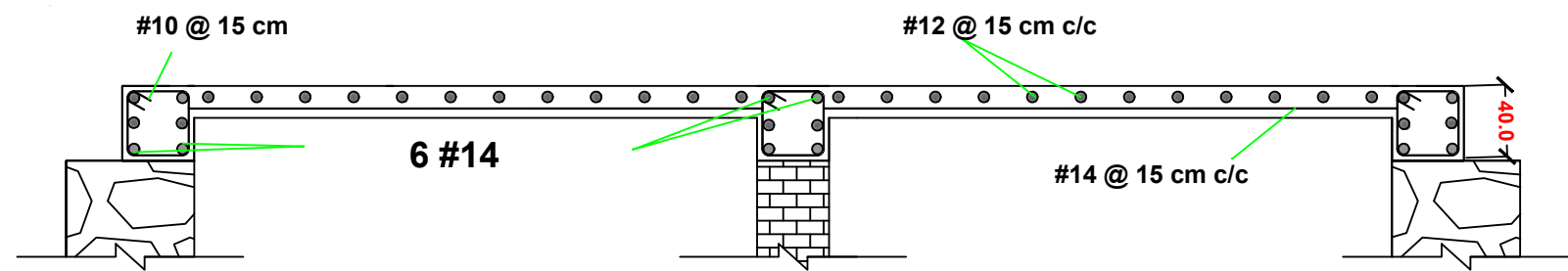
| | | | | | | | | | | |
|--|-------------------------|--|------------|----------------|-------------|----------|---------------|------------|--------------|---------------------------------|
| | TASK & RESPONSIBILITIES | | DATE | NO OF PAGE | PROVINCE | HERAT | SCALE | 1:100 | DRAWING TYPE | Main Building water supply Plan |
| | SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 | | DISTRICT | GULRAN | START DATE | 15-07-2024 | E | 35.098016 |
| | DRAWING BY | ENG. MUSTAFA MUSLEH | 15-07-2024 | | CLINIC | KHOGYANI | END DATE | 15-07-2024 | N | 61.68512 |
| | REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 | | CLINIC TYPE | BHC | PROJECT TITLE | UPGRADING | | |
| | APPROVED BY | SIMON WANKURU | 17-07-2024 | | | | | | | |



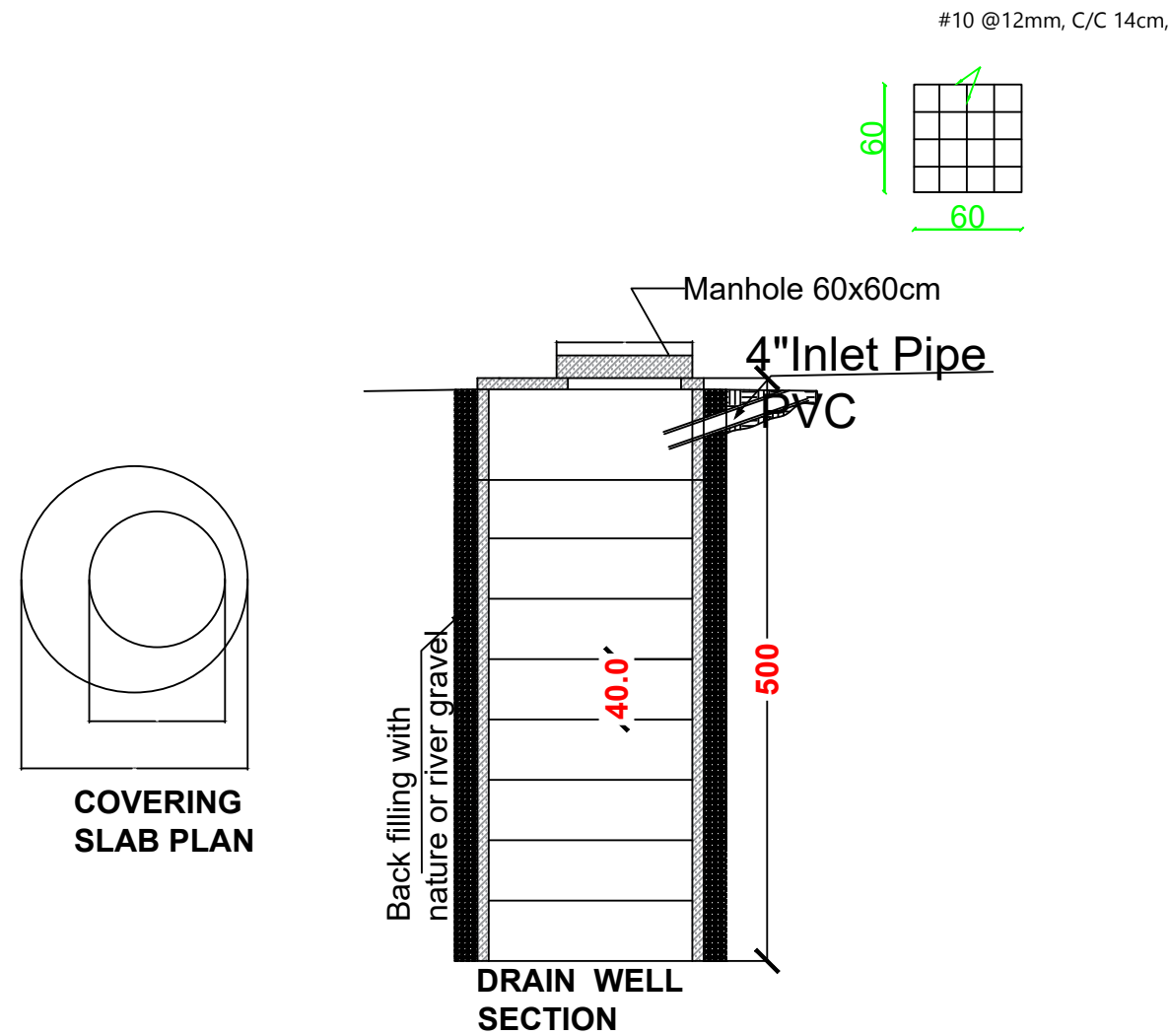
HAND WASHING STATION
Top View



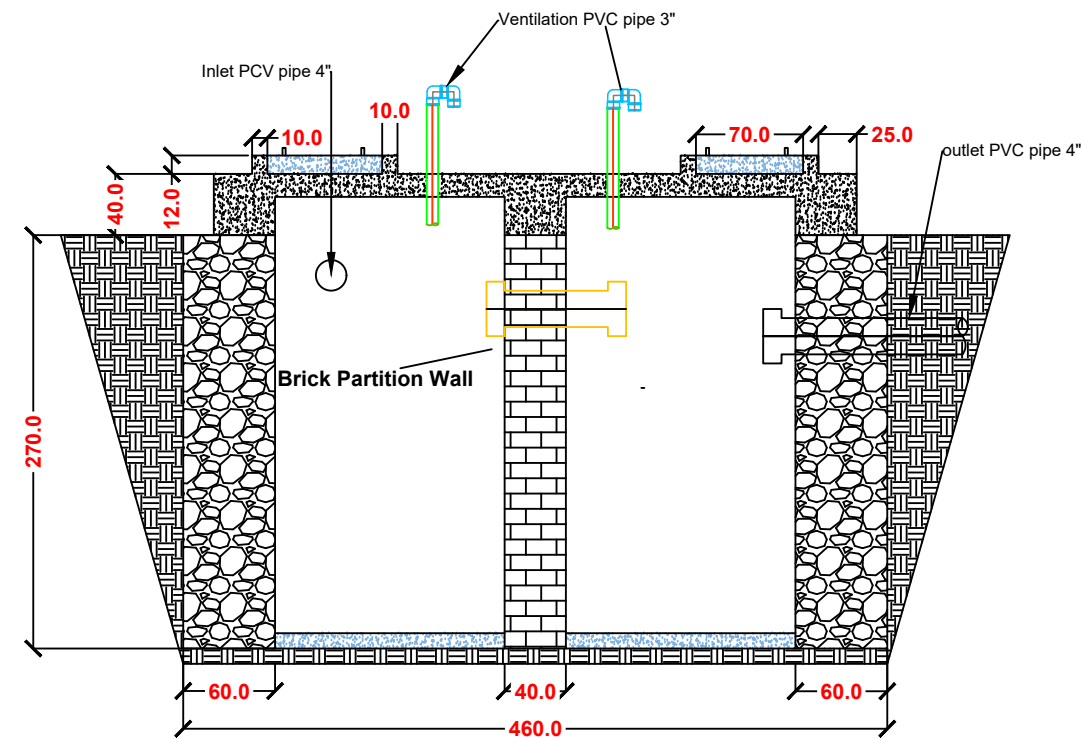
| | | | | | | | | | | |
|--|-------------------------|--|------------|----------------|-------------|----------|---------------|------------|--------------|-------------------|
| | TASK & RESPONSIBILITIES | | DATE | NO OF PAGE | PROVINCE | HERAT | SCALE | 1:100 | DRAWING TYPE | Hand Washing Plan |
| | SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 | | DISTRICT | GULRAN | START DATE | 15-07-2024 | E | 35.098016 |
| | DRAWING BY | ENG. MUSTAFA MUSLEH | 15-07-2024 | | CLINIC | KHOGYANI | END DATE | 15-07-2024 | N | 61.68512 |
| | REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 | | CLINIC TYPE | BHC | PROJECT TITLE | UPGRADING | | |
| | APPROVED BY | SIMON WANKURU | 17-07-2024 | | | | | | | |



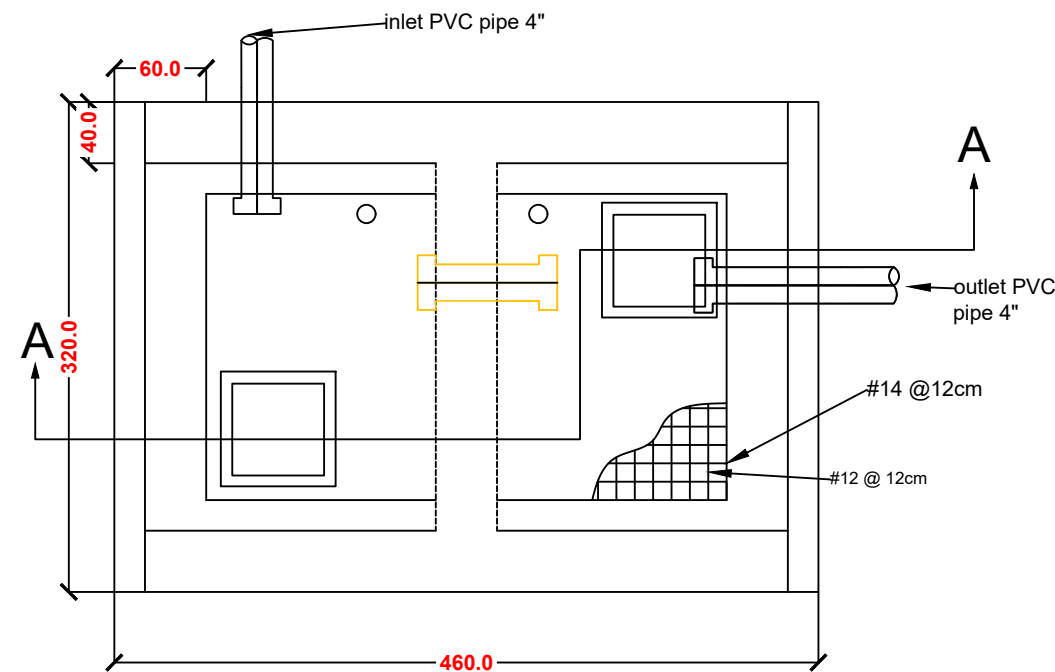
SEPTIC TANK BEAM AND SLAB BAR BENDING DETAIL



NEW DRAIN WELL FOR SEWERAGE SYSTEM



Septic Tank Section A-A



New Septic tank plan

| | | | | | | | | | | |
|--|-------------------------|--|------------|----------------|-------------|----------|---------------|------------|--------------|-----------------------------|
| | TASK & RESPONSIBILITIES | | DATE | NO OF PAGE | PROVINCE | HERAT | SCALE | 1:100 | DRAWING TYPE | Septic Tank & Soak Away Pit |
| | SURVEYED BY | ENG. MUSTAFA MUSLEH ENG. MOKHTAR RAZAEE | 29-07-2024 | | DISTRICT | GULRAN | START DATE | 15-07-2024 | E | 35.098016 |
| | DROWN BY | ENG. MUSTAFA MUSLEH | 15-07-2024 | | CLINIC | KHOGYANI | END DATE | 15-07-2024 | N | 61.68512 |
| | REVIEWED BY | ENG. OMID KHAIRY | 17-07-2024 | | CLINIC TYPE | BHC | PROJECT TITLE | UPGRADING | | |
| | APPROVED BY | SIMON WANKURU | 17-07-2024 | | | | | | | |