

SANITARY DRAWINGS INDEX

DRAWING INDEX

World Bank

FDRE - Ministry of Finance UNOPS - ETMCC

Response -Recovery-Resilience for conflict affected communities in Ethiopia

SEMRET HEALTH POST

[illegible]



SITE WASTE WATER DRAINAGE SYSTEM
SCALE 1:200

MANHOLE INVERTED SCHEDULES			
Manhole No.	Inverted Level	Finished Level	Depth of Manhole (m)
MH-1	2557.90	2558.30	0.40
MH-2	2557.85	2558.30	0.45
MH-3	2557.80	2558.30	0.50
MH-4	2557.70	2558.30	0.60
MH-5	2557.60	2558.00	0.40
MH-6	2557.90	2558.30	0.40
MH-7	2558.90	2559.30	0.40
MH-8	2558.70	2559.10	0.40

Septic Tank – NGL ≈2558.00
Pipe Inlet Level = 2557.60
IL of Manhole to ST = MH-5 = 2557.60

GENERAL NOTES:

LEGEND

Existing

New

H- Examination room, Office and Store
I- Staff Residence
J- Dry Latrine - Patient
K- Pedestrian road
L- Ambulance drop off and parking
M- Entrance gate and fence
N - **ELEVATED WATER TANKER**
O - **GROUND WATER TANKER**
P - **SEPTIC TANK**
Q- Water point

Future expansion

R- Kitchen
S- Staff Latrine
T- Guard House

LEGEND

MH - Manhole
GVB - Gate Valve Box
HDPE - High Density Polythene
FH - Fire Hydrant
Ø - Diameter of Pipe
EWT - Elevated Water Tanker
GT - Gully Trap
IL - Inverted Level
D - Depth

KEY PLAN

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Funded By:	Partner:					
World Bank	FDRE- Ministry of Finance					
Program:	Implemented By:					
Response -Recovery-Resilience for conflict affected communities in Ethiopia	FDRE - Ministry of Finance UNOPS - ETMCO					
Project Name:	Design:					
SEMRET HEALTH POST	UNOPS-ETMCO					
Drawing Title:						
SITE SITE WASTE WATER DRAINAGE SYSTEM						
Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:		
YG	SN	01	09	R0		
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	AE	SH	A1	1:200	02 / 06 /2023	0



SITE WATER SUPPLY SYSTEM
SCALE 1:200

GENERAL NOTES:

LEGEND

Existing

A- Examination room and store
B- Nurse's dorm
C- Dry latrine
D- Water reservoir
E- Incinerator
F- Farm land
G- Water point

New

H- Examination room, Office and Store
I- Staff Residence
J- Dry Latrine - Patient
K- Pedestrian road
L- Ambulance drop off and parking
M- Entrance gate and fence
N - **ELEVATED WATER TANKER**
O - **GROUND WATER TANKER**
P - **SEPTIC TANK**
Q- Water point

Future expansion

R- Kitchen
S- Staff Latrine
T- Guard House

LEGEND

MH - Manhole
GVB - Gate Valve Box
HDPE - High Density Polythene
FH - Fire Hydrant
φ - Diameter of Pipe
EWT - Elevated Water Tanker
GT - Gully Trap
IL - Inverted Level
D - Depth

0					
Rev.:	Date:	Description:			Approved

KEY PLAN

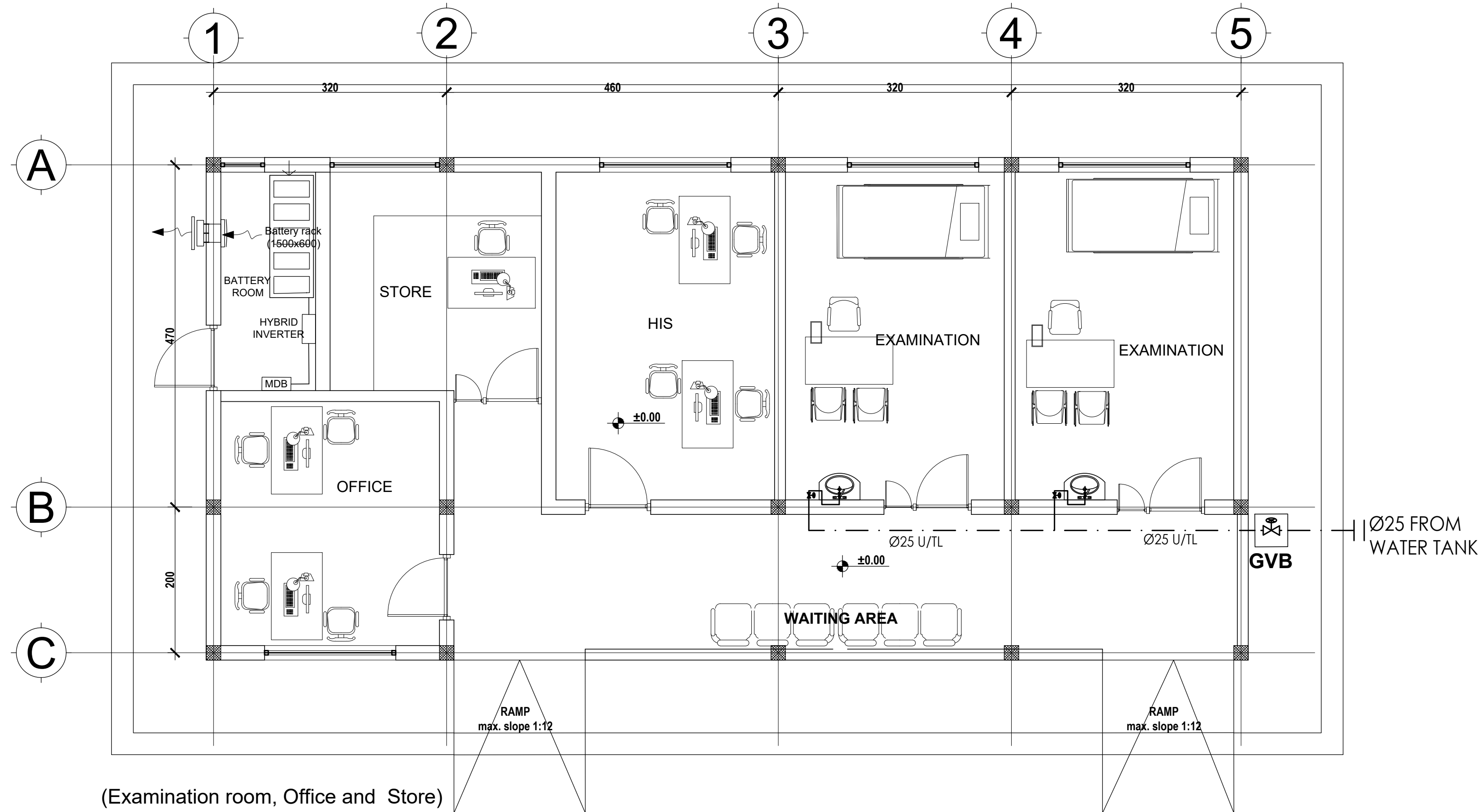
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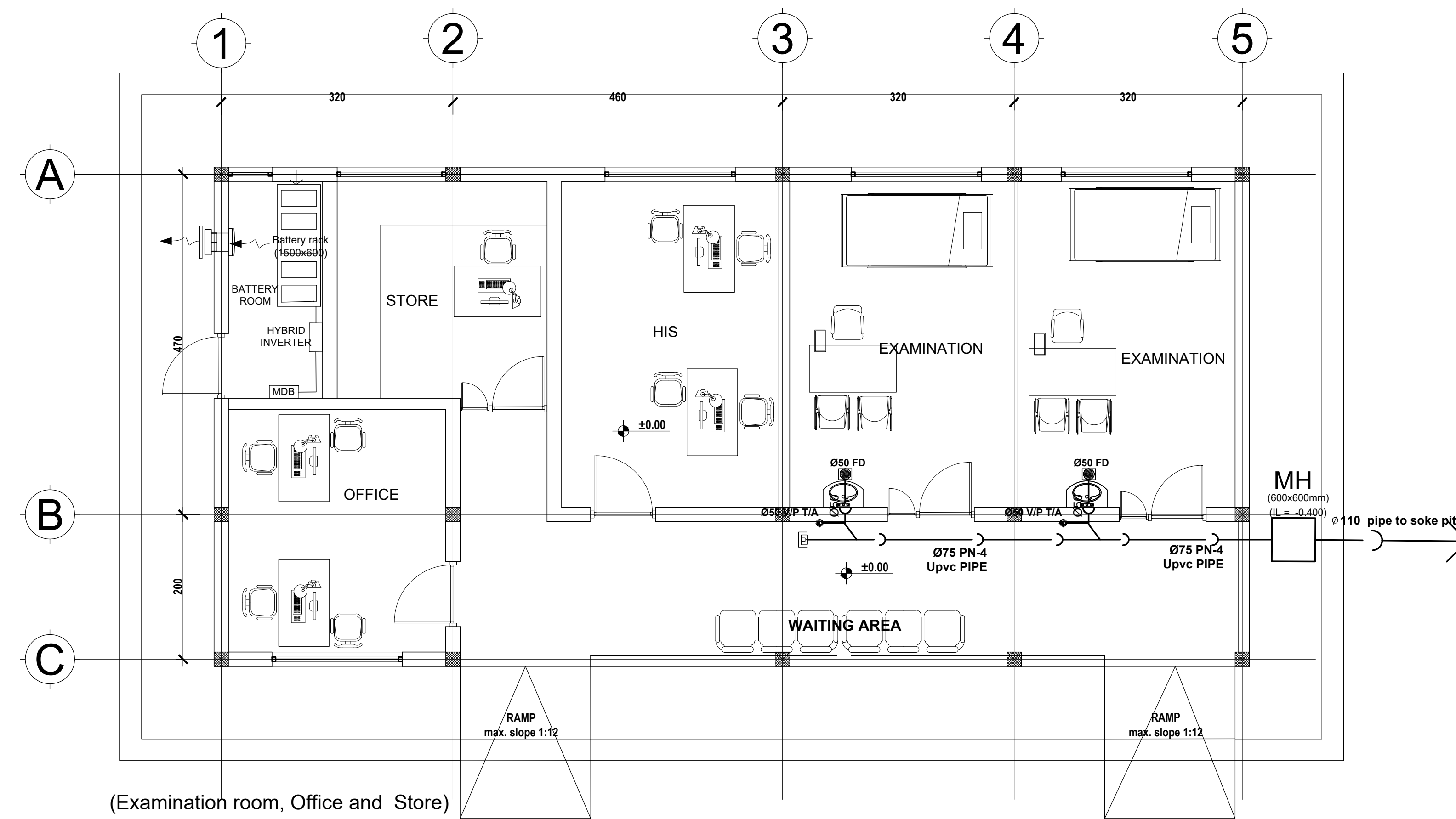
Drawing Title:

**SITE
SITE WATER SUPPLY SYSTEM**

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:		
YG	SN	02	09	R0		
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	AE	SH	A1	1:200	02 / 06 /2023	0



(Examination room, Office and Store)
**Ground floor sanitary layout
(Water Supply)**
Scale 1:50



(Examination room, Office and Store)
**Ground floor sanitary layout
(Waste Water)**
Scale 1:50

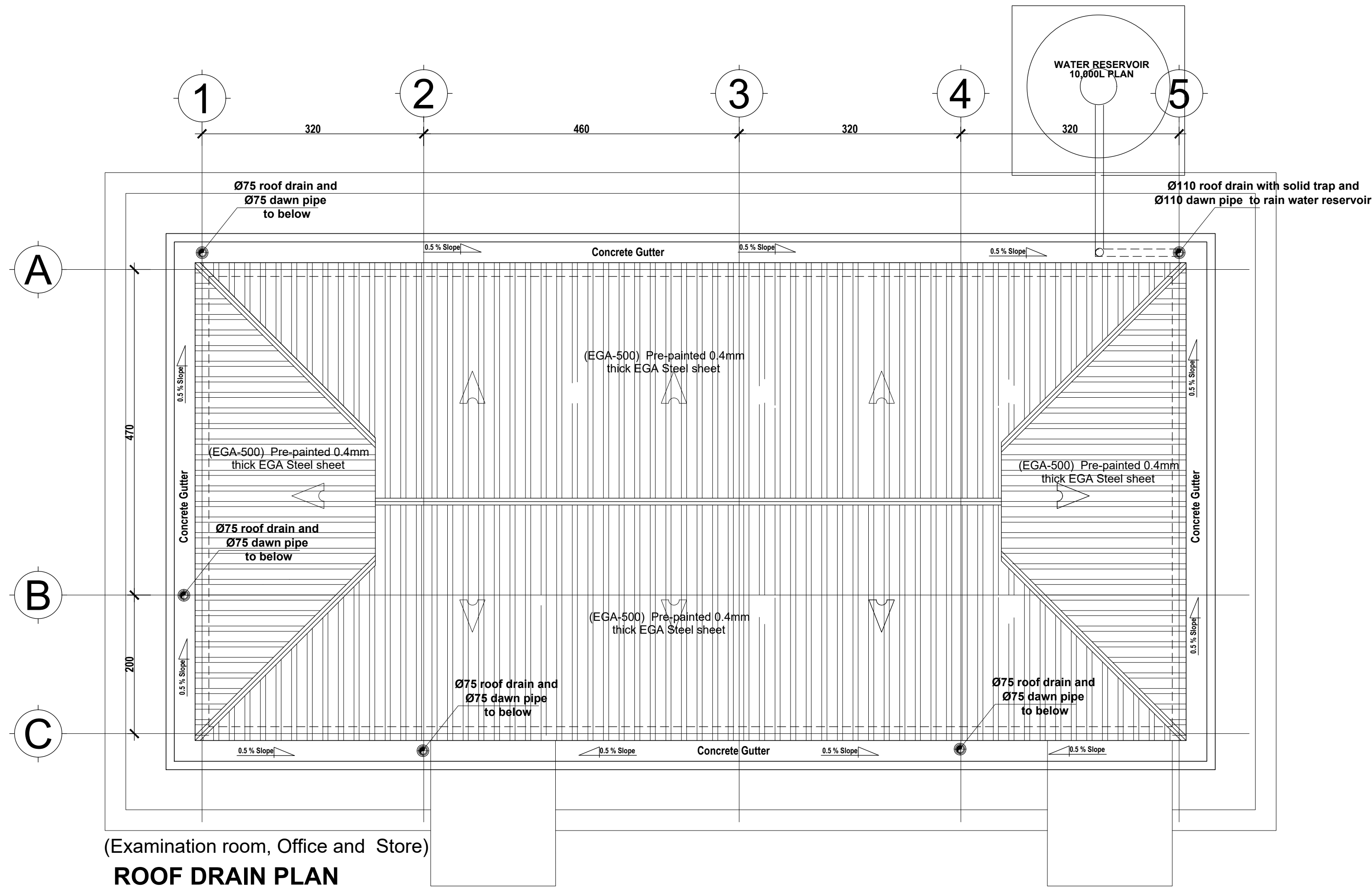
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Rev.:	Date:	Description:	Approved

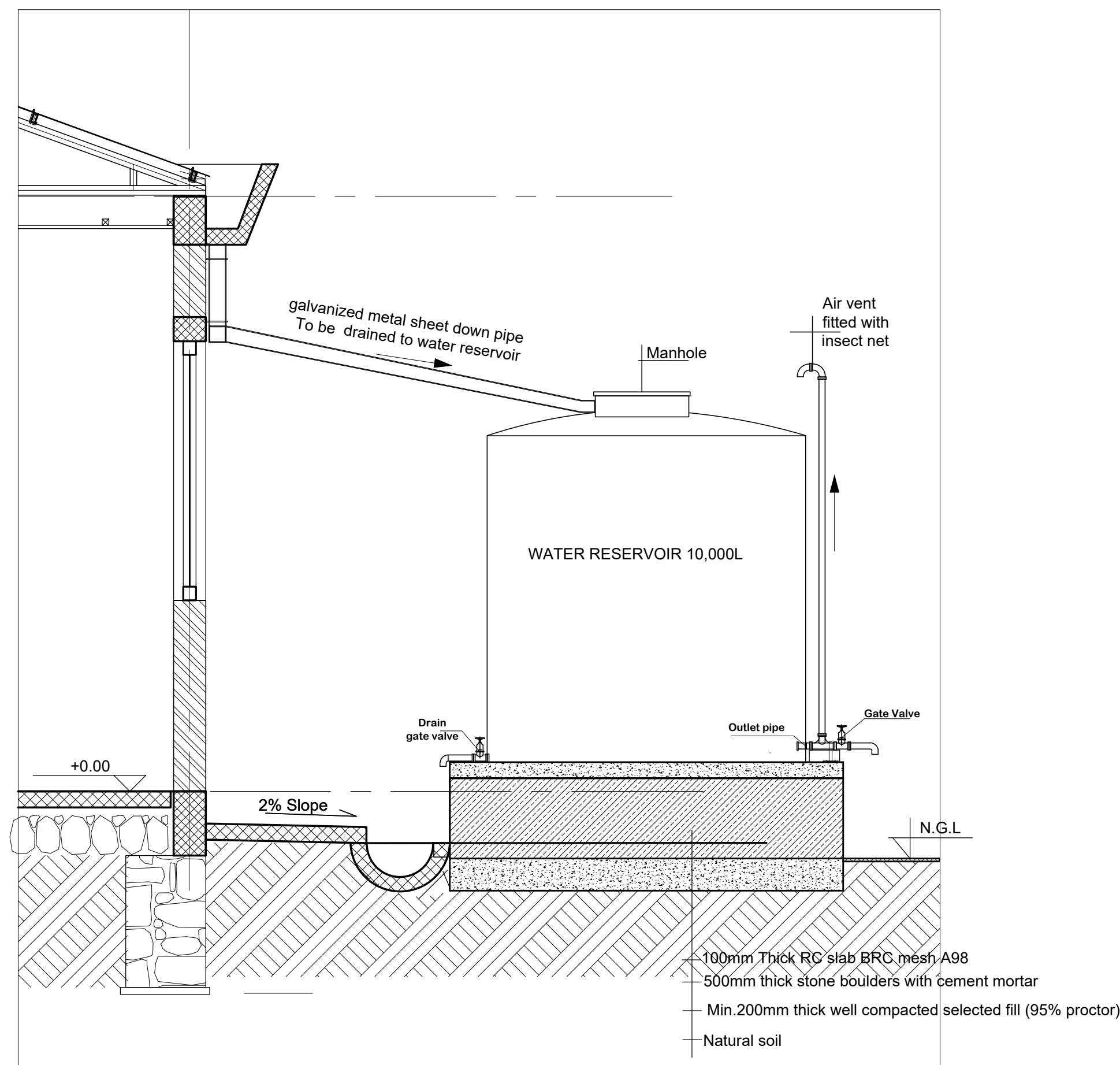
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Project Name:	Design:
SEMRET HEALTH POST	UNOPS-ETMCO
UNOPS	

Drawing Title:				
(OPD) Ground Floor Sanitary Layout				
Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
YG	SN	03	08	R0
Drawn:	Checked:	Approved:	Size:	Scale:
FM	AE	SH	A1	1:50
		Date:	Rev.:	
		04 / 06 /2023	0	



(Examination room, Office and Store)
ROOF DRAIN PLAN
sc. 1:50




WATER RESERVOIR DETAILS SECTION X-X

GENERAL NOTES:

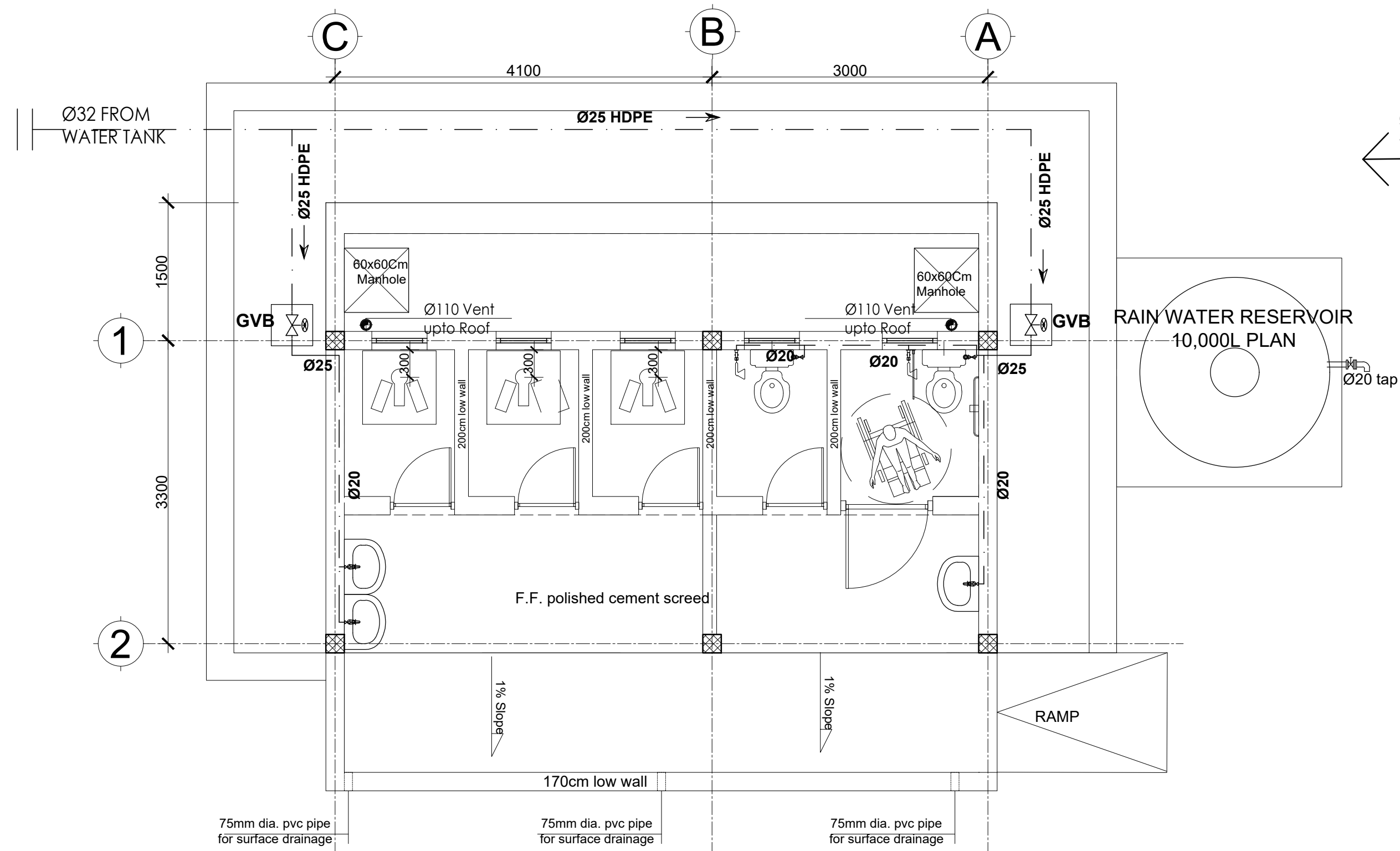
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Rev.:	Date:	Description:	Approved	

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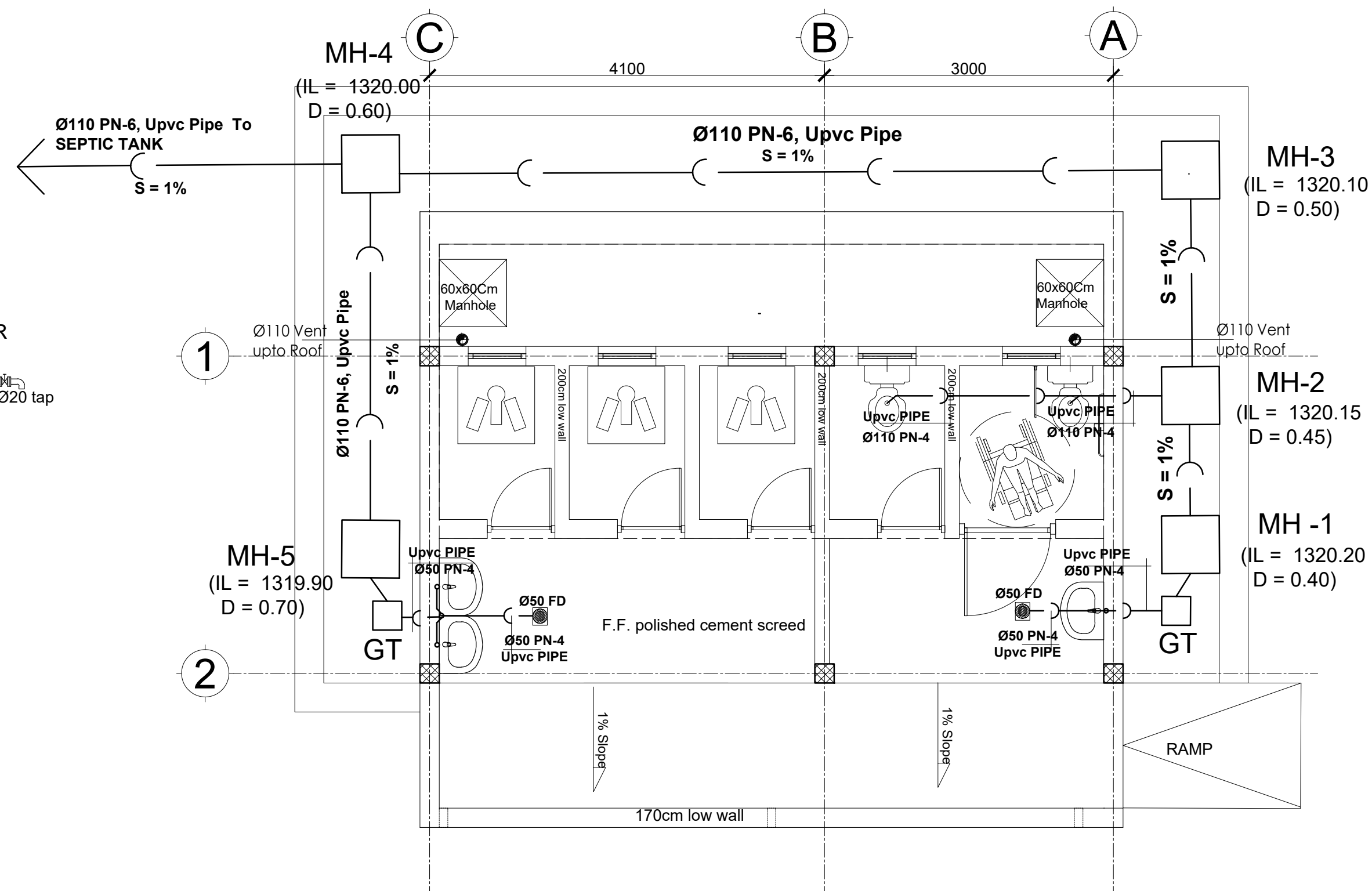
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Project Name:		Design:		
SEMRET HEALTH POST		UNOPS-ETMCO		
Drawing Title:				
(OPD) Rainwater Harvesting System				
Designed by		Discipline:	Dr. No:	Tot. No:
YG		SN	04	08
Rev No:		R0		
Drawn:	Checked:	Approved:	Size:	Scale:
FM	AE	SH	A1	1:50
Date:		Rev.:		
04 / 06 /2023		0		



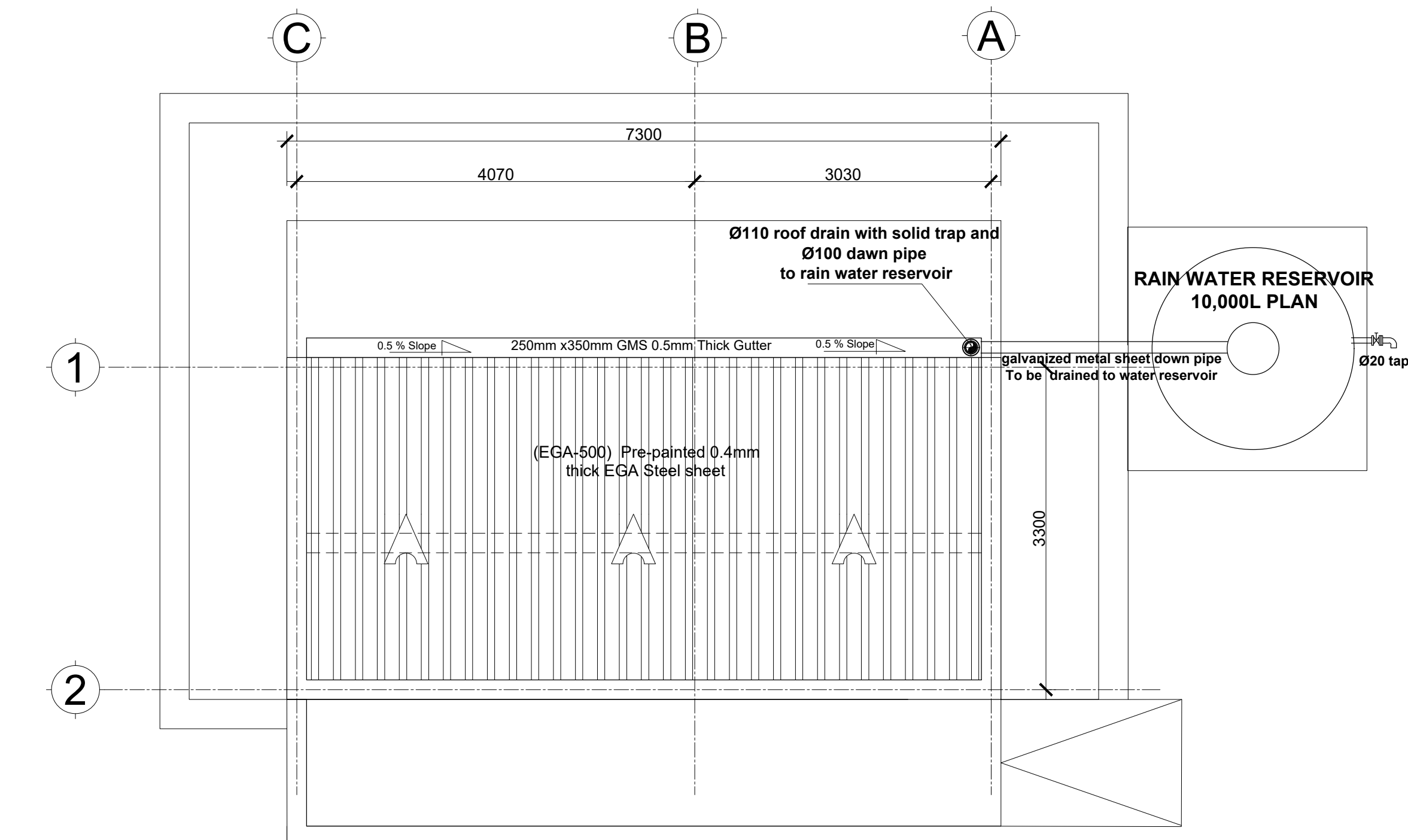
Drawing Title:										
(Staff Residence)										
Rainwater Drainage System										
Designed by			Discipline:		Dr. No:		Tot. No:		Rev No:	
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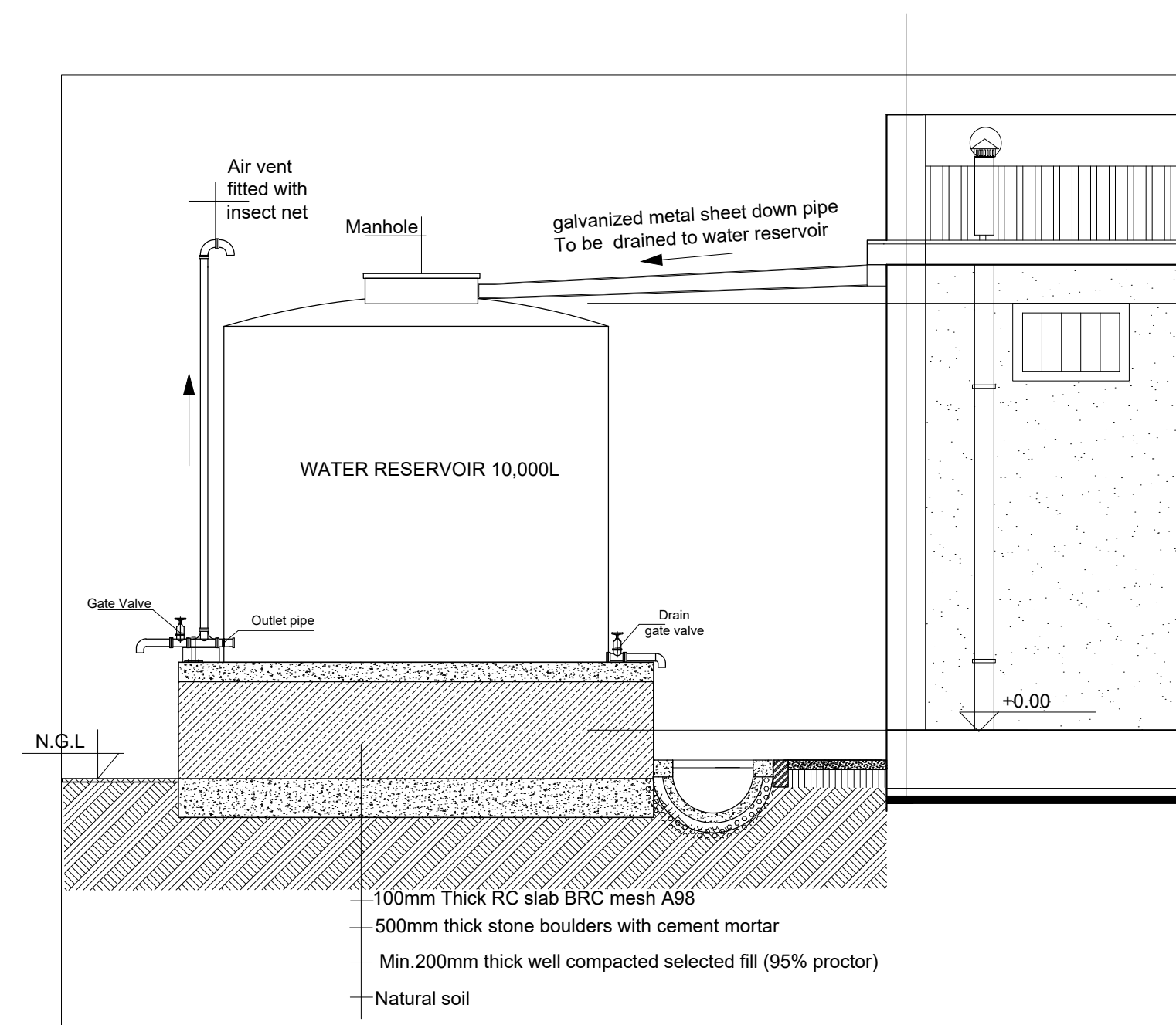
(Dry Latrine - Patient)
Ground floor sanitary layout
(Water Supply) Scale 1:50



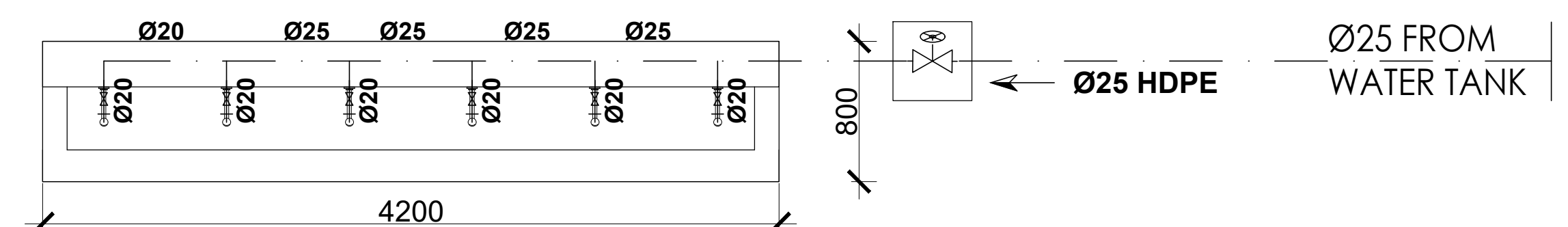
(Dry Latrine - Patient)
Ground floor sanitary layout
(Waste Water) Scale 1:50



(Dry Latrine - Patient)
Roof Drain Plan
sc. 1:50



WATER RESERVOIR DETAILS SECTION
Sc. 1:50



HAND WASH PLAN
Scale 1:50

GENERAL NOTES:

LEGEND

- PPR pipe for cold water Supply for Internal use, PN-20
- HDPE pipe for cold water Supply for External use, PN-10
- Gate valve
- uPVC waste pipe, PN-6
- M.H. - Manhole
- SAP - Soak Away Pit
- FE - Fire Extinguisher
- FCO - Floor Clean out
- V/P - Vent Pipe
- GT - Gully Trap

LEGEND

MH - Manhole
GVB - Gate Valve Box
HDPE - High Density Polythene
FH - Fire Hydrant
Ø - Diameter of Pipe
EWT - Elevated Water Tanker
GT - Gully Trap
IL - Inverted Level
D - Depth

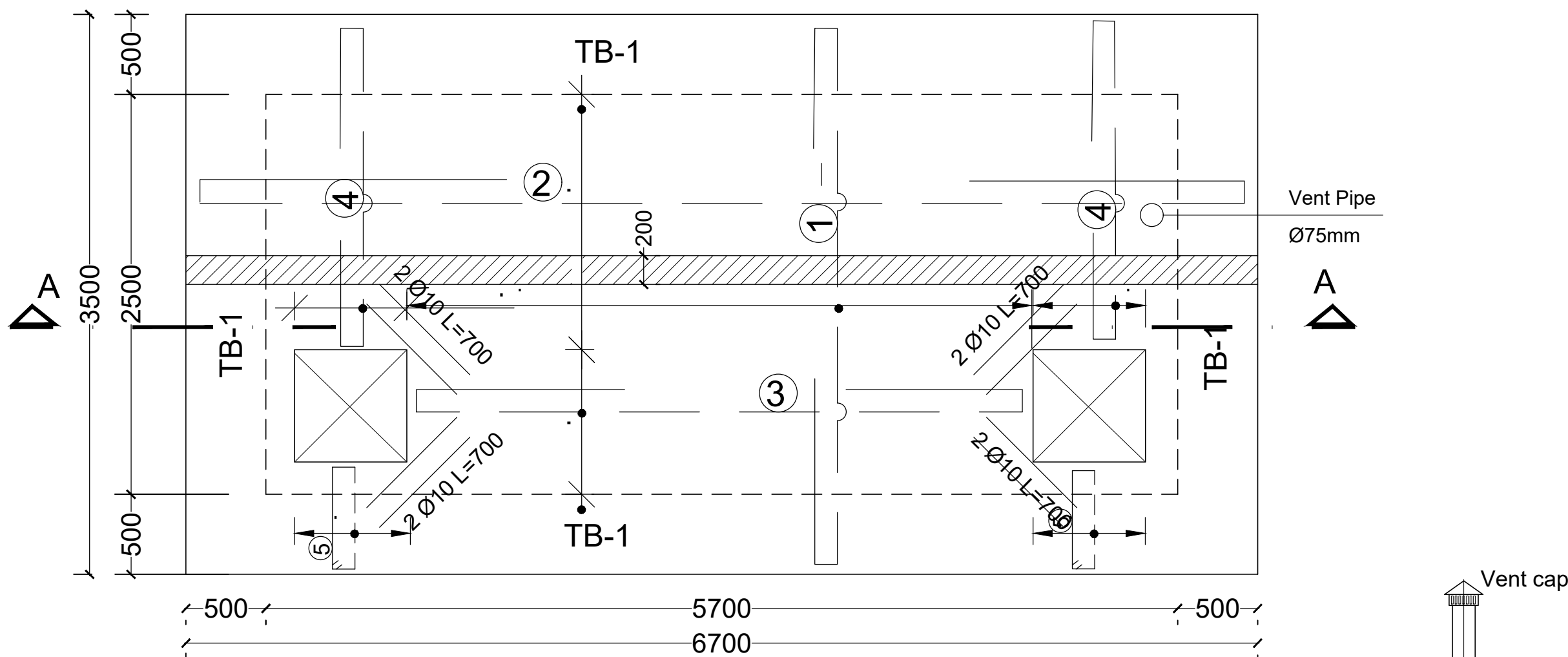
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10	Rev.:	Date:	Description:	Approved
11	Rev.:	Date:	Description:	Approved
12	Rev.:	Date:	Description:	Approved
13	Rev.:	Date:	Description:	Approved
14	Rev.:	Date:	Description:	Approved
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16	Rev.:	Date:	Description:	Approved
17	Rev.:	Date:	Description:	Approved
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20	Rev.:	Date:	Description:	Approved

KEY PLAN

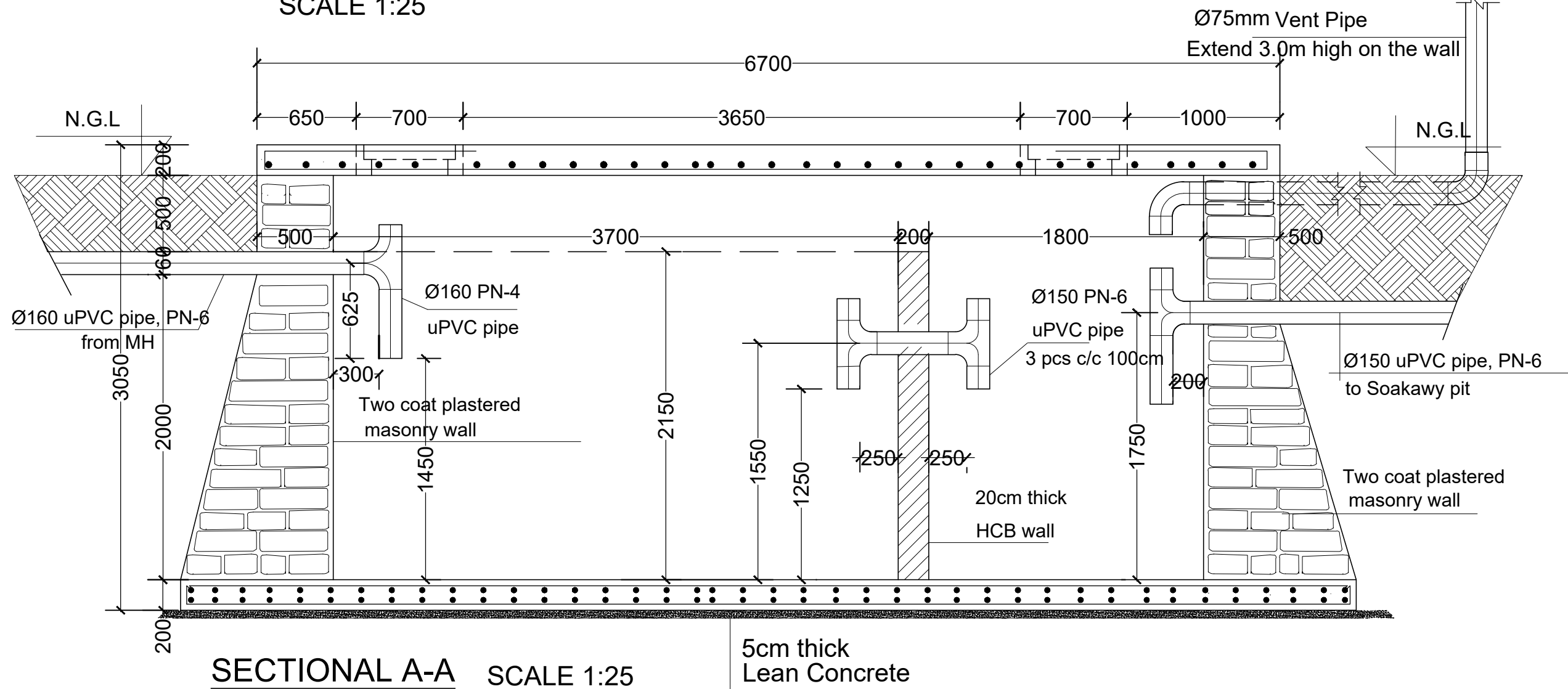
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Project Name:		Design:	
SEMRET HEALTH POST		UNOPS-ETMCO	
Drawing Title:		UNOPS	

(Dry Latrine - Patient)											
WATER SUPPLY, WASTEWATER & RAINWATER HARVESTING SYSTEMS.											
Designed by			Discipline:		Dr. No:		Tot. No:		Rev No:		
YG			SN		06		09		R0		
Drawn:		Checked:		Approved:		Size:		Scale:		Date:	
FM		AE		SH		A1		1:50		06 / 22 / 2023	
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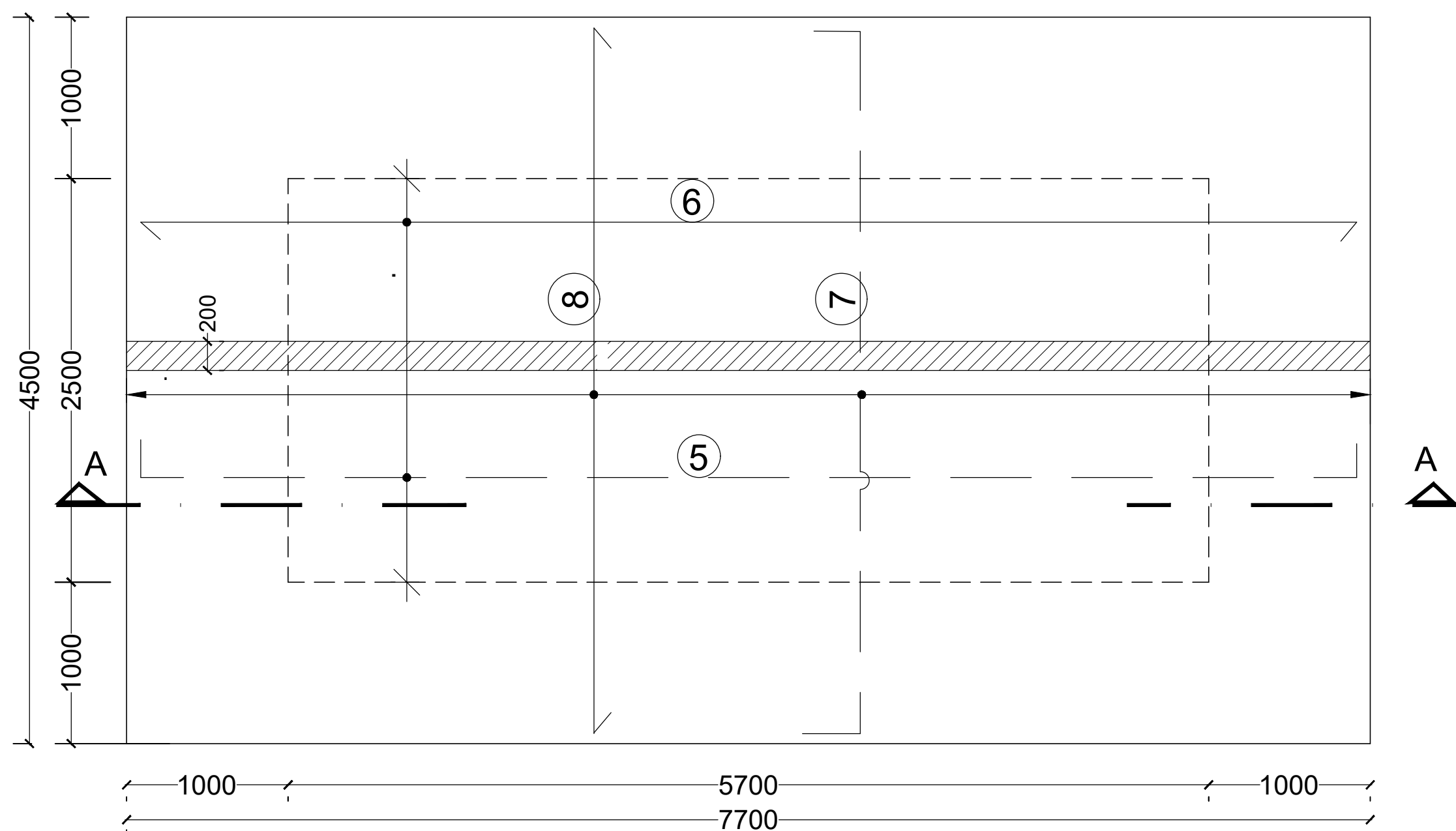
25m³ CAPACITY SEPTIC TANK



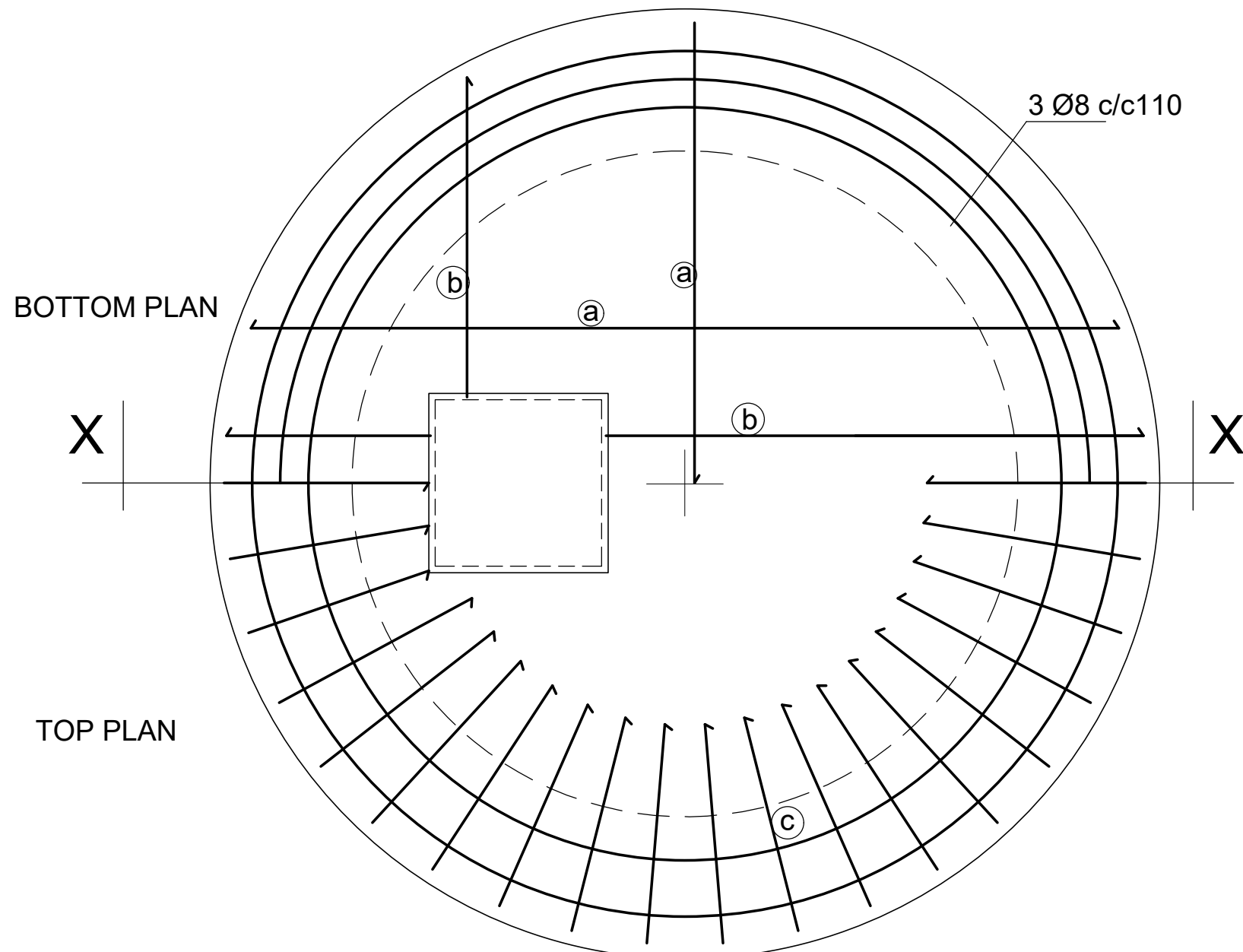
TOP SLAB REINFORCEMENT (200mm thick)
SCALE 1:25



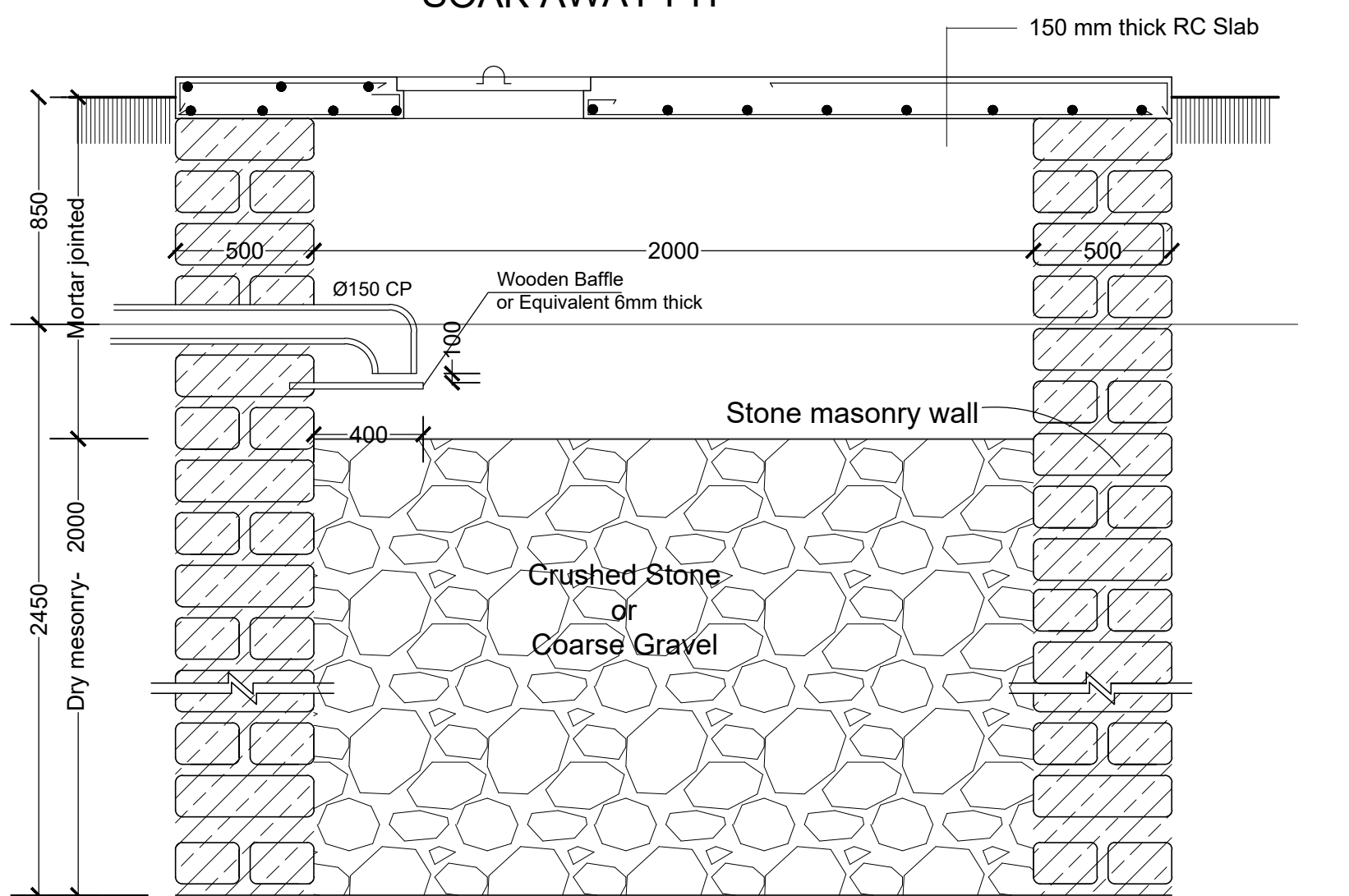
SECTIONAL A-A SCALE 1:25



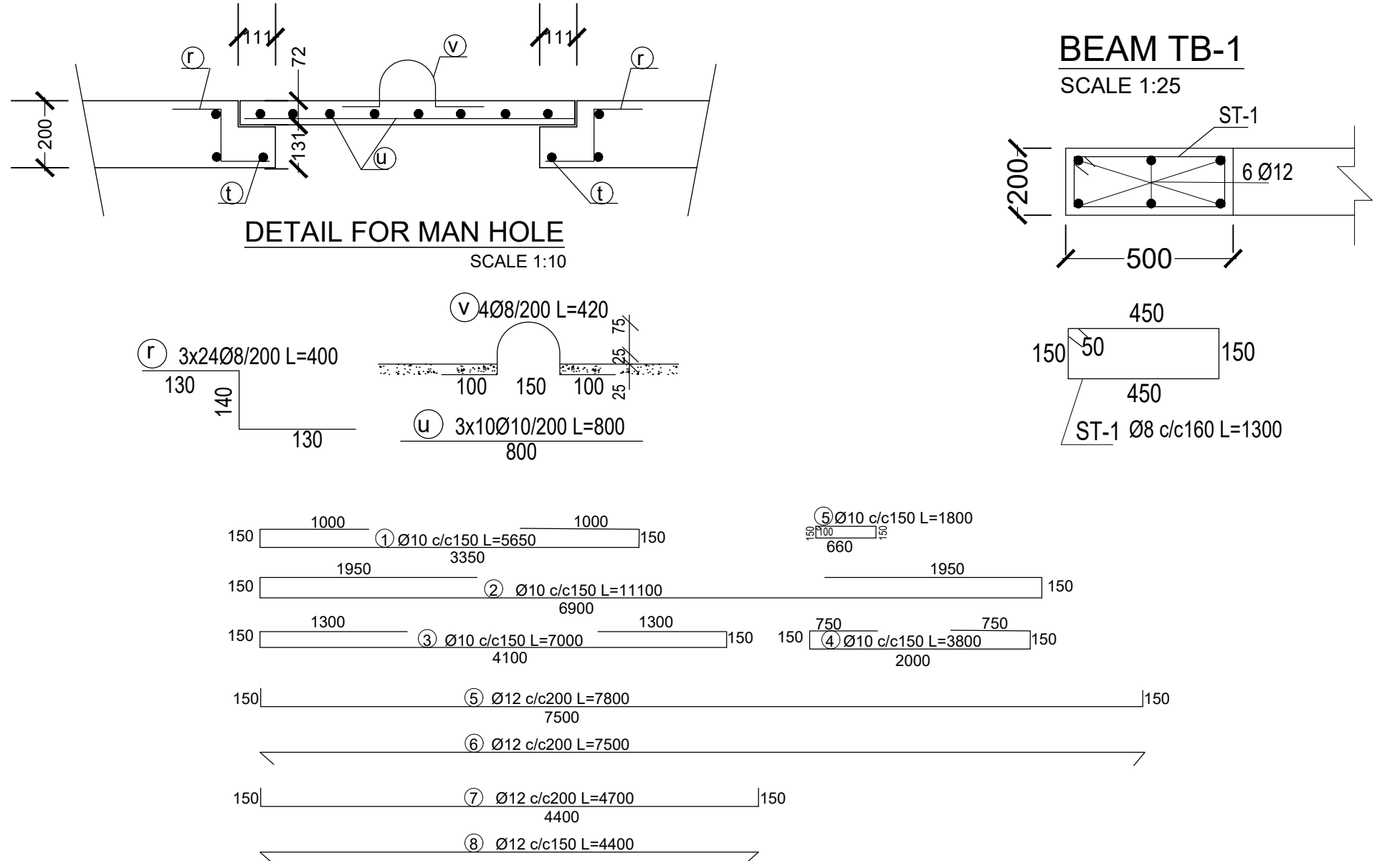
BOTTOM SLAB REINFORCEMENT (200mm thick)
SCALE 1:25



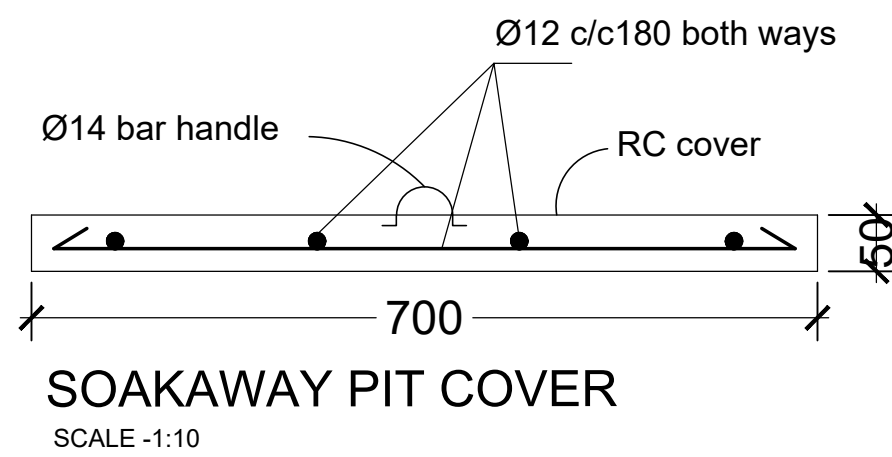
SOAK AWAY PIT



SECTION X-X
SCALE 1:25



GENERAL NOTES:



SOAKAWAY PIT COVER
SCALE 1:10

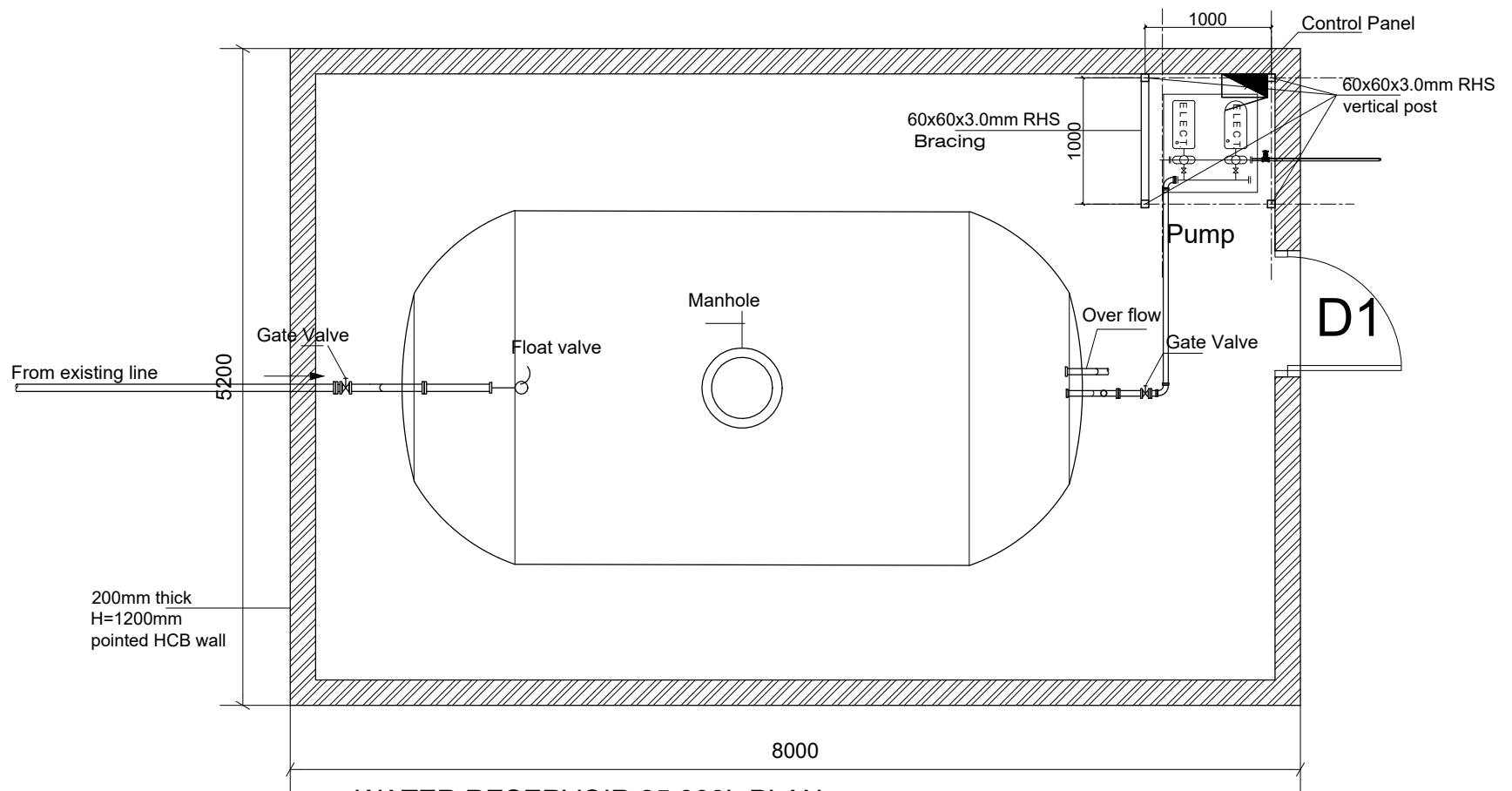
Rev.	Date	Description	Approved
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KEY PLAN

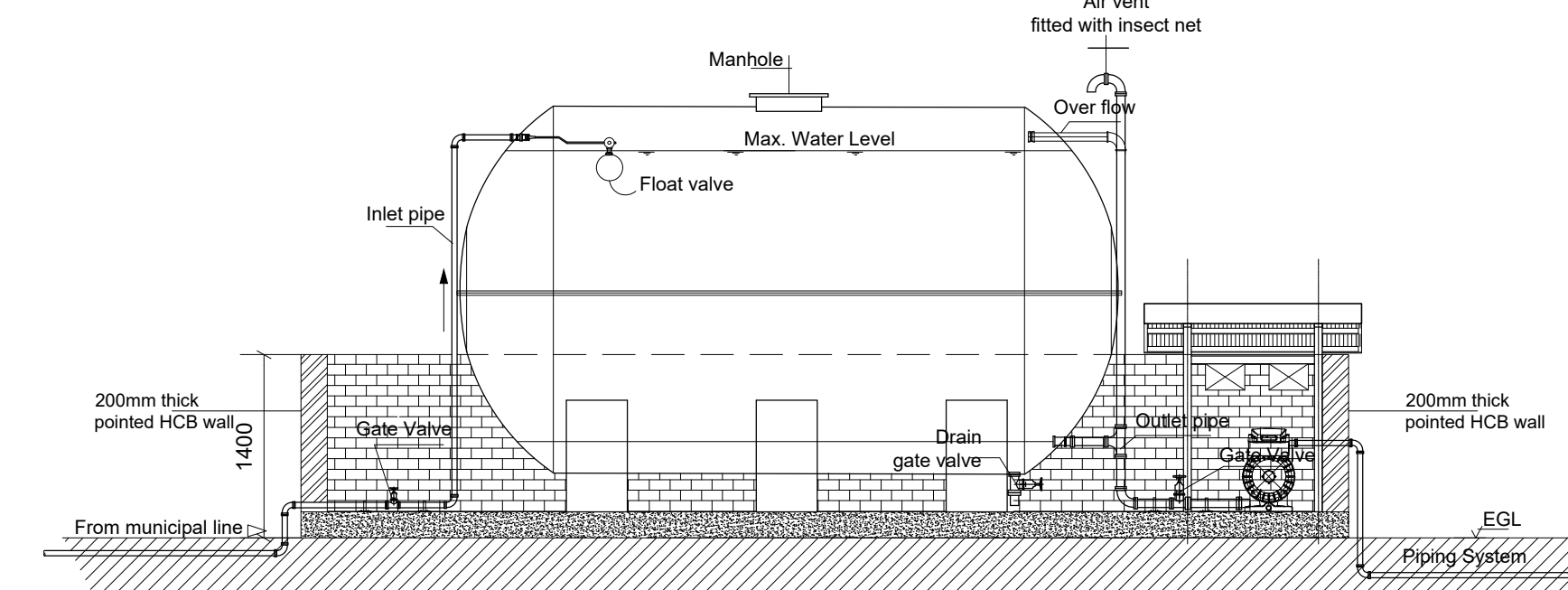
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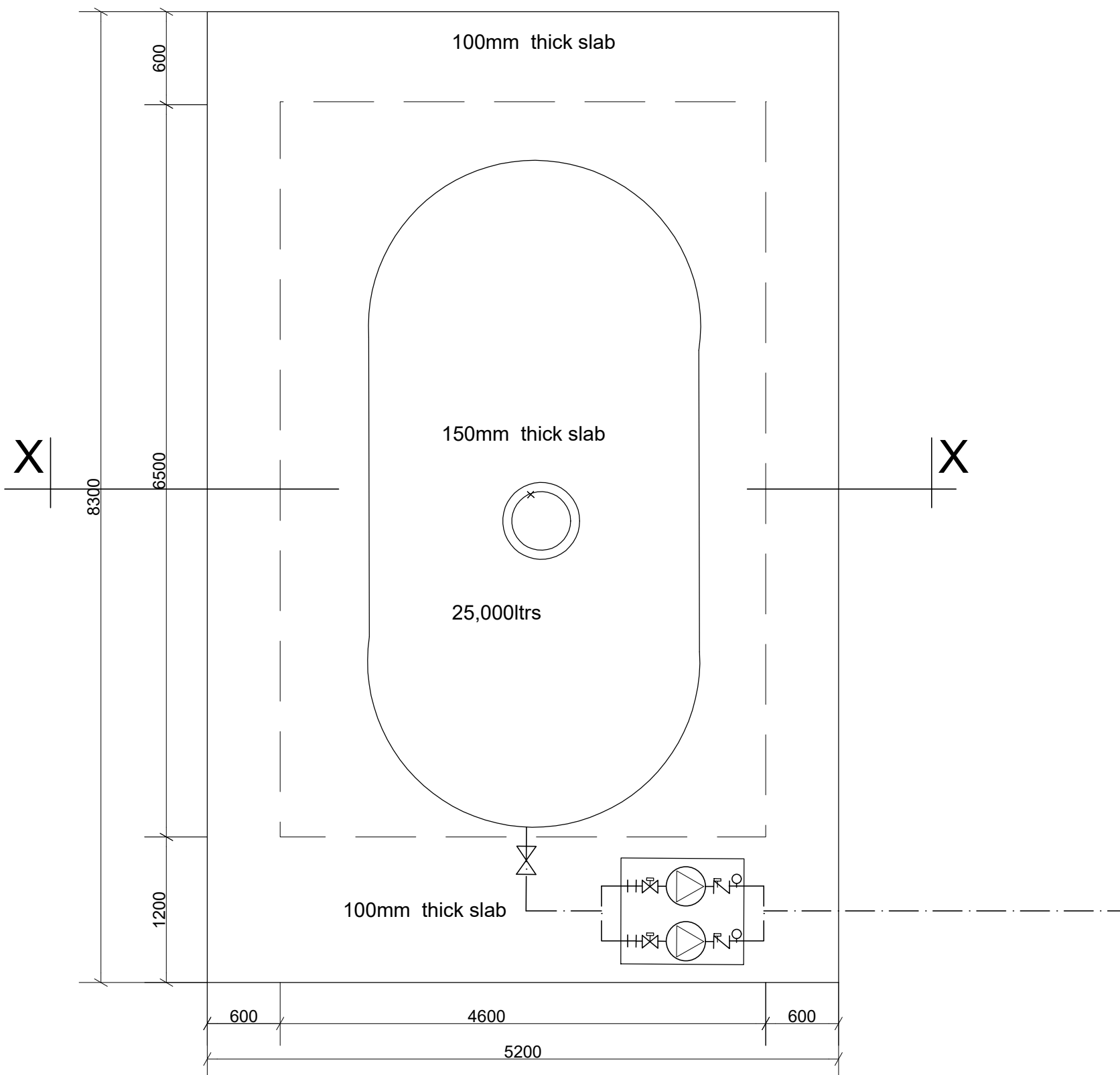
Drawing Title:										DETAILS									
Septic Tank & Soak Pit Details																			
Designed by						Discipline:				Dr. No:		Tot. No:				Rev No:			
YG						SN				07		09				R0			
Drawn:		Checked:		Approved:		Size:		Scale:		Date:		Rev.:							
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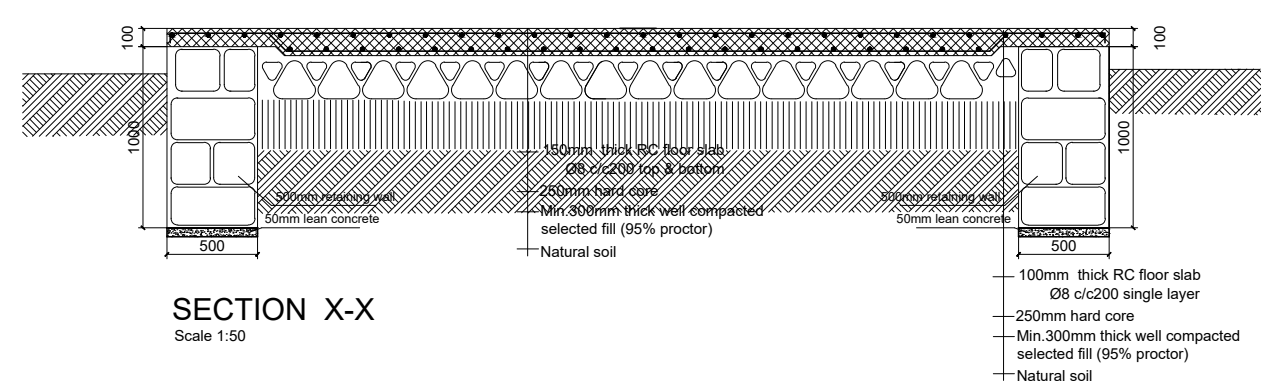
WATER RESERVOIR 25,000L PLAN
SC 1/50



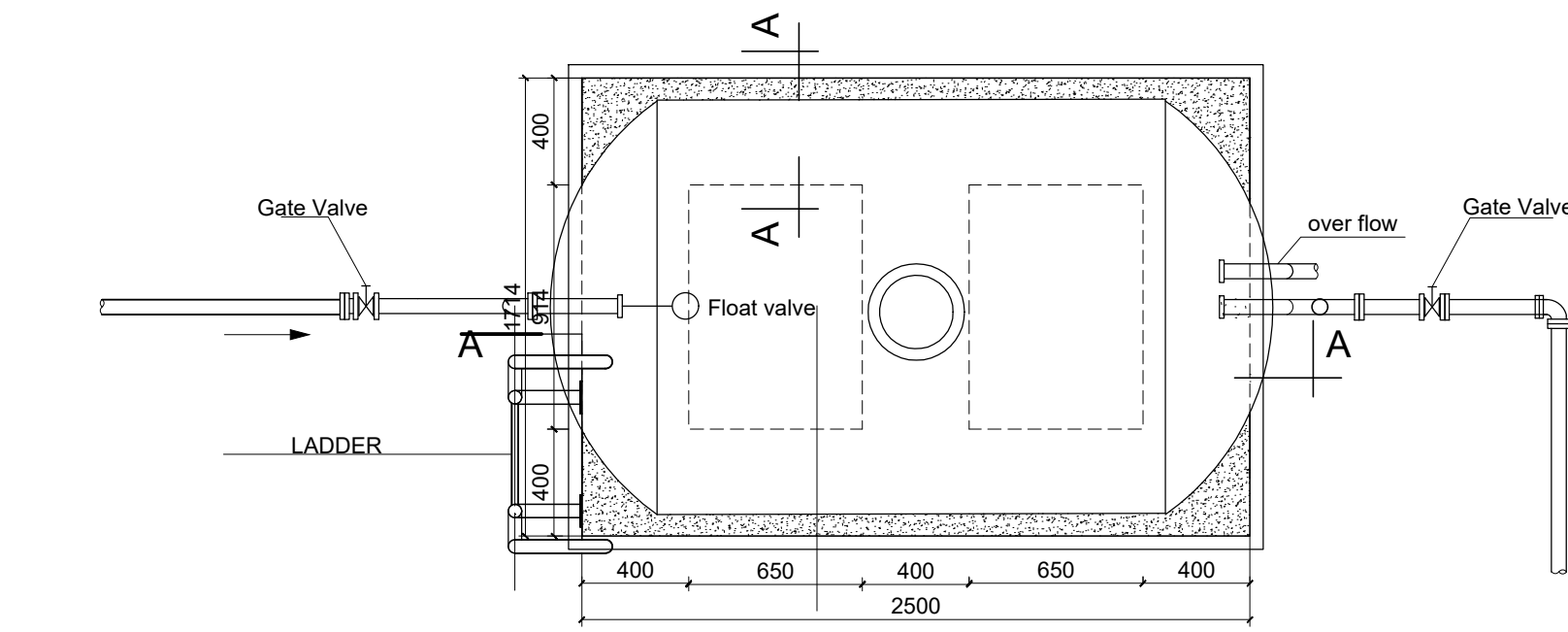
ELEVATION
SC 1/50



Water Reservoir Plate Form and Fence Plan
Scale 1:50

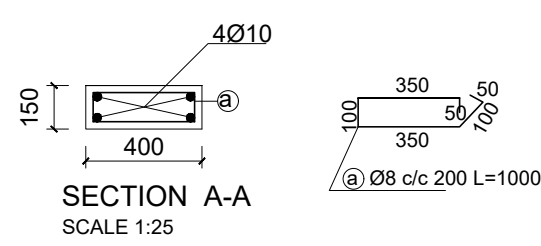


SECTION X-X
Scale 1:50

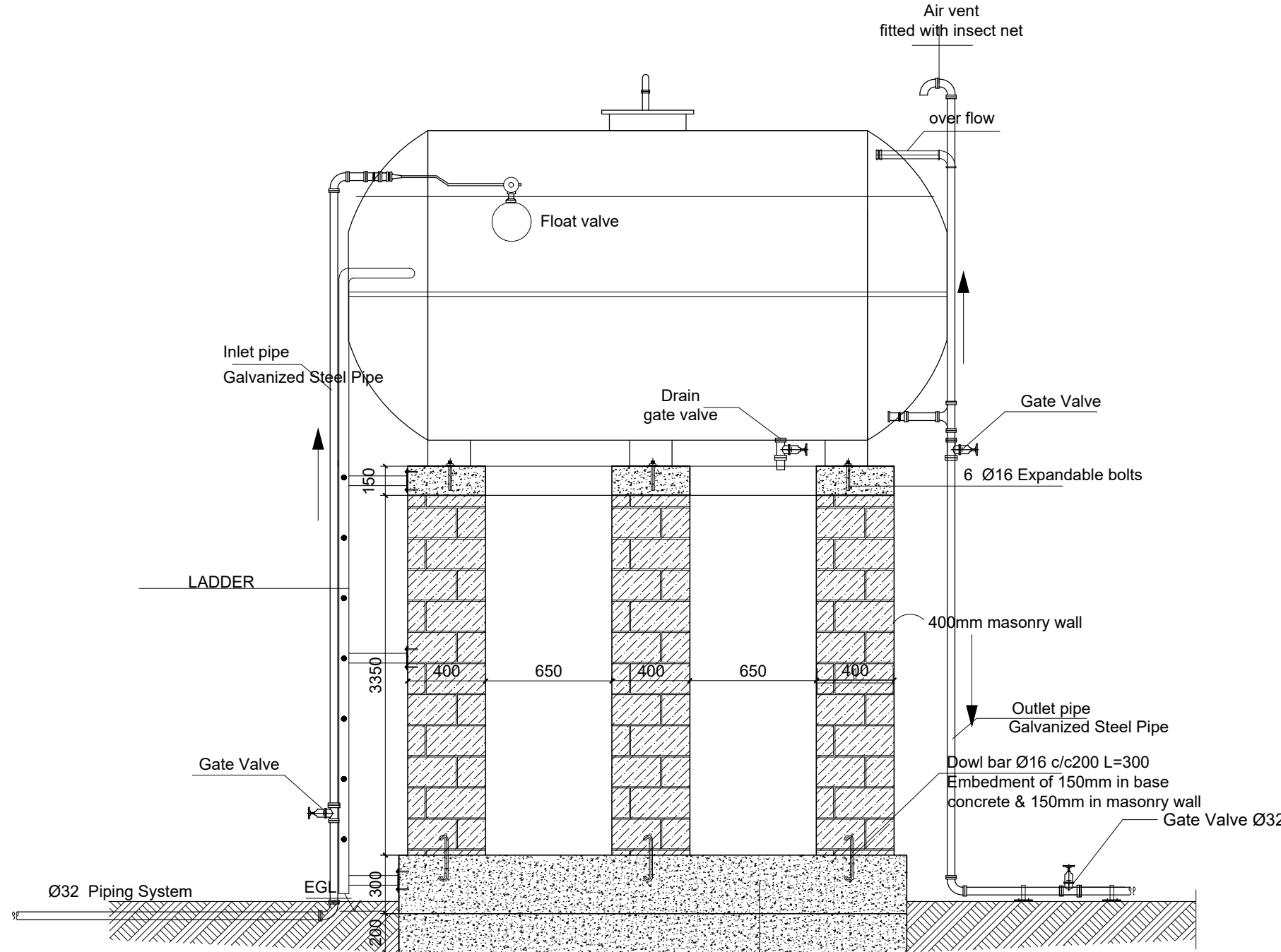


Elevated Water Tank (3.5m)3,000 L
SCALE -1:25

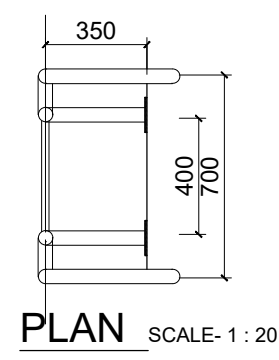
WATER TANKER SUPPORT BEAM DETAILS



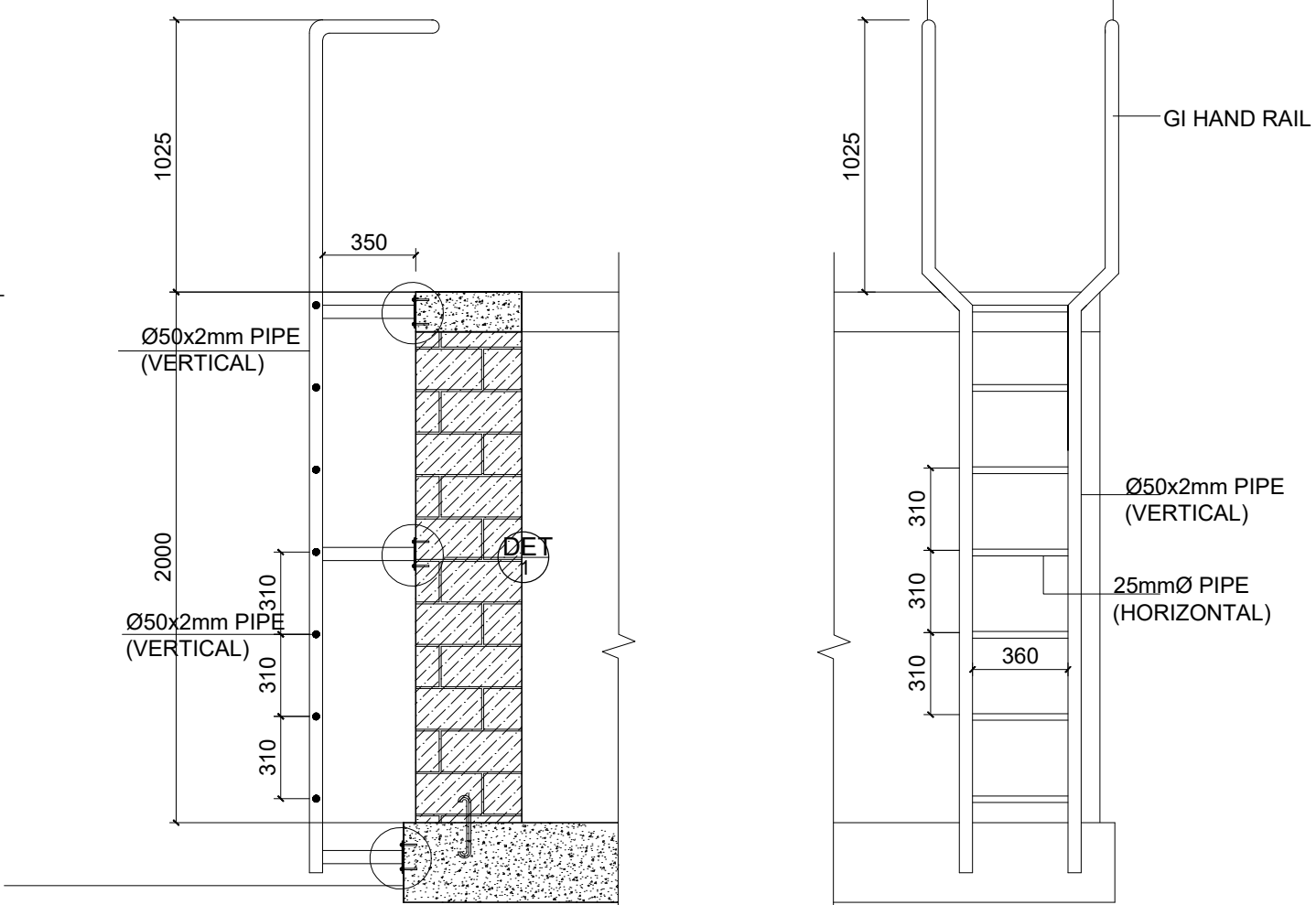
SECTION A-A
SCALE 1:25



SECTION A-A
SCALE -1:25
WATER TANK PLINTH
SCALE -1:25



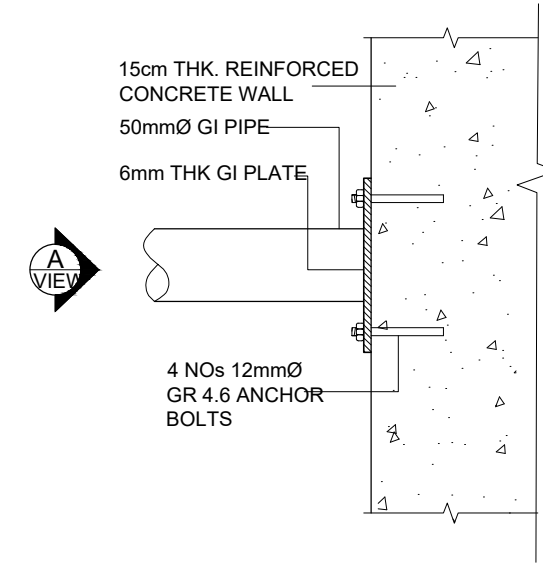
PLAN
SCALE -1:20



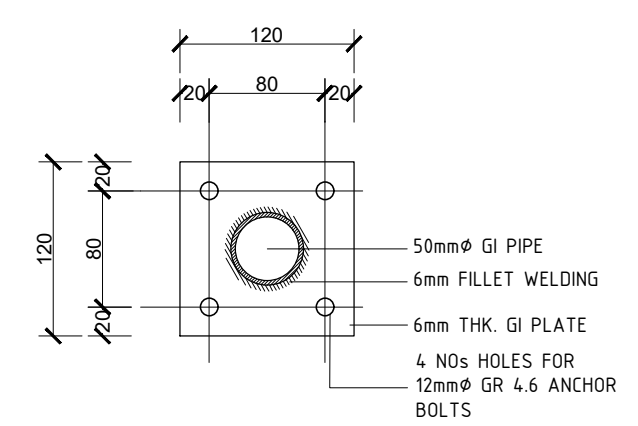
SECTION
SCALE 1:20

VIEW
SCALE -1:20

LADDER-DETAILS



DETAIL 1
SCALE 1:5



VIEW 'A'
SCALE 1:5

PUMP DETAIL

Name	Type	Q (m ³ /hr)	H (m)	P (Kw)	Eff. (%)	NPSH (m)	Remark
P-1	Domestic water Centrifugal pump, Electric driven	2.5	10	0.7	>70	>1.5	Domestic water supply to Elevated water tank Electric driven, Duty
P-2	Domestic water Centrifugal pump, Electric driven	2.5	10	0.7	>70	>1.5	Domestic water supply to Elevated water tank Electric driven, Standby

GENERAL NOTES:

ROTO Fiberglass horizontal tank or equivalent with the following properties:

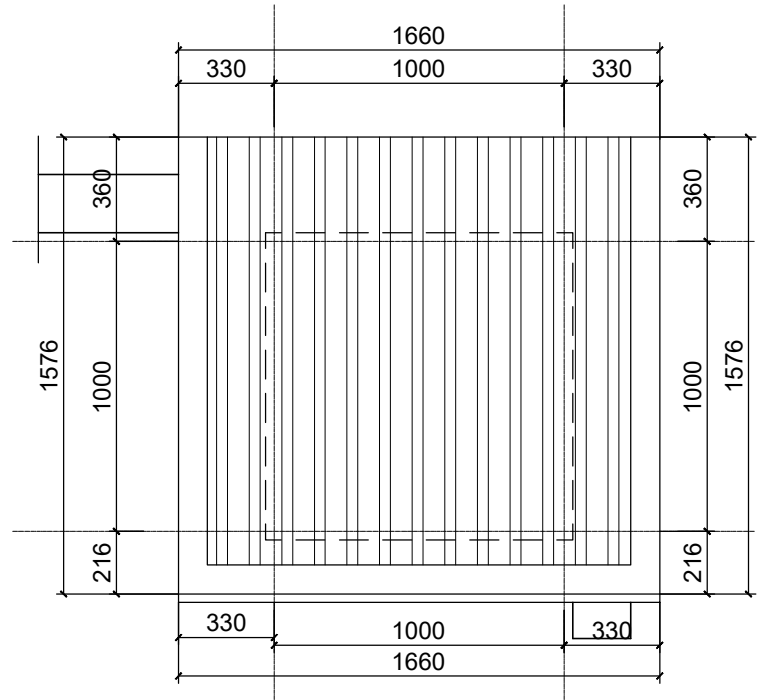
Properties Data	
Capacity	25 m ³ / 3 m ³
Material	P191 Resin
Length	6230mm / 2950mm
Nominal Diameter	2400mm / 1200mm
Wall thickness	9.4mm / 3.6mm
Interior finish	Inside threaded – FRP coated
UV Protection	Minimum 75%
Pressure rating	PN16 / PN12

Rev.	Date	Description	Approved
0			

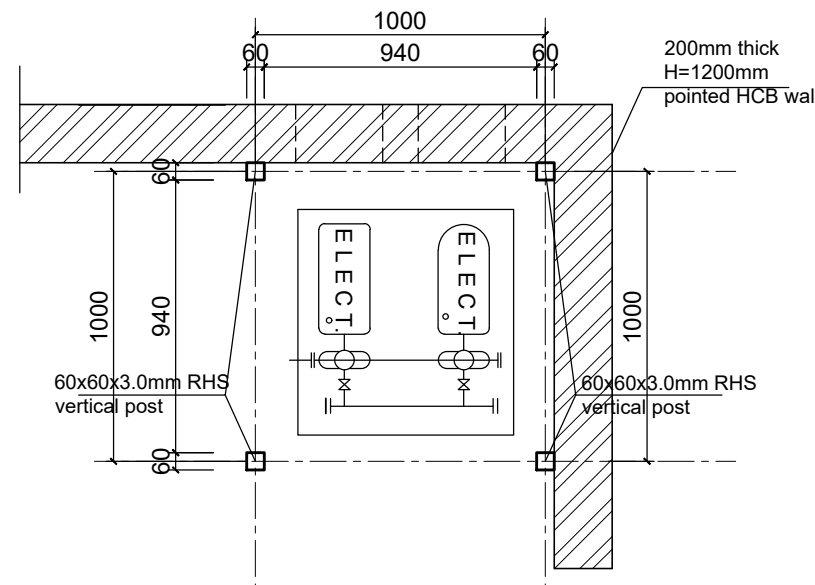
KEY PLAN

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Drawing Title:	

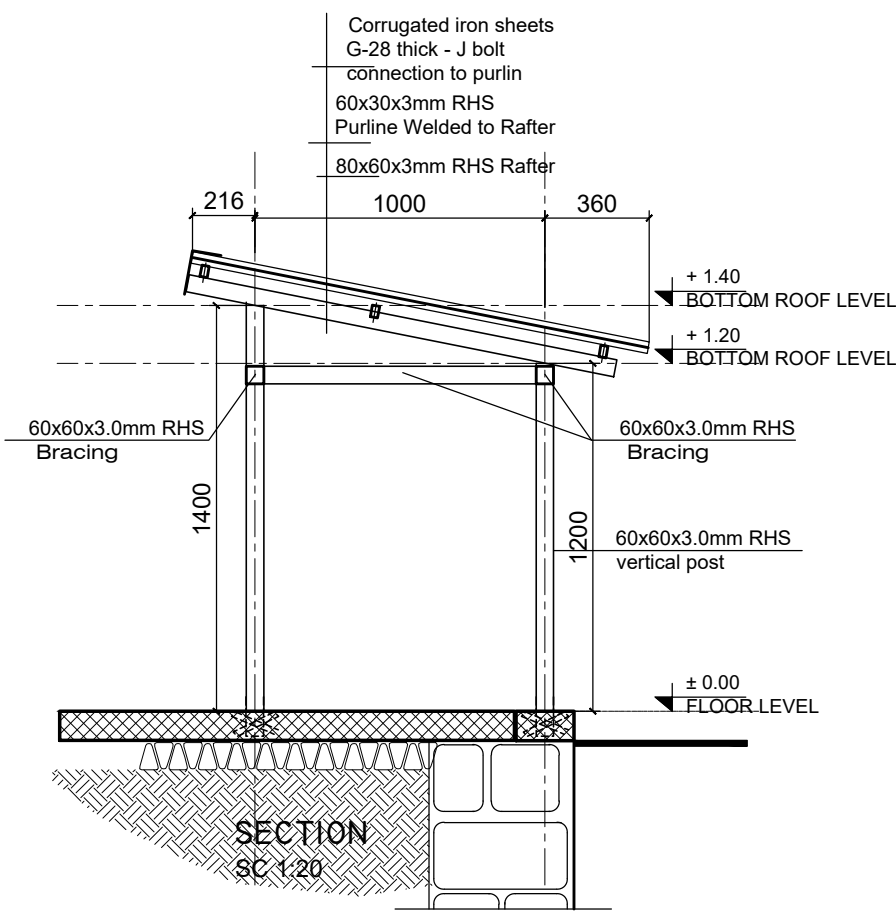
DETAILS WATER RESERVOIR & ELEVATED TANKERS DETAILS				
Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
YG	SN	08	09	R0
Drawn:	Checked:	Approved:	Size:	Scale:
FM	AE	SH	A1	1:50 1:20
Date:	06 / 22 / 2023	Rev.:		



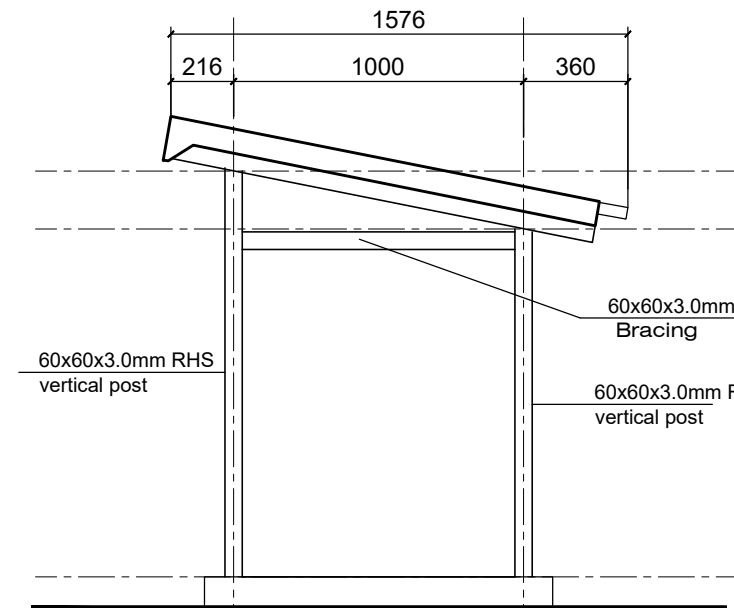
PUMP SHADE ROOF PLAN
SC 1:20



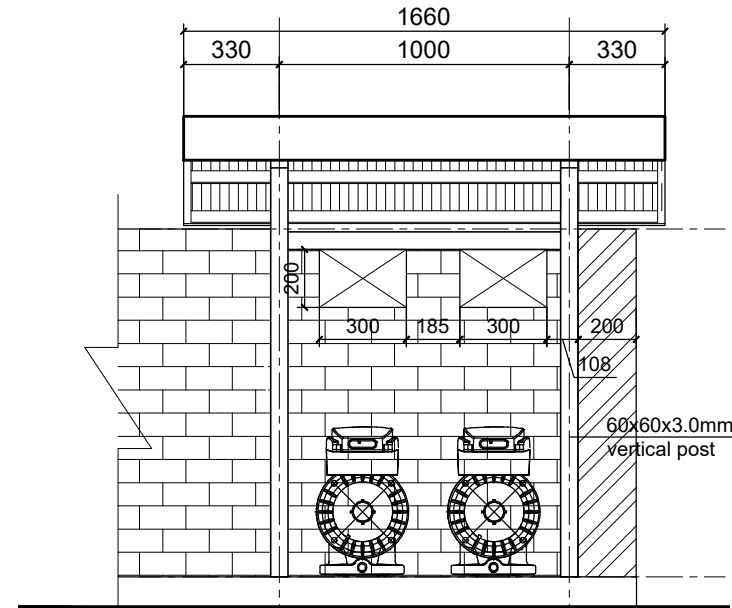
PUMP SHADE FLOOR PLAN
SC 1:20



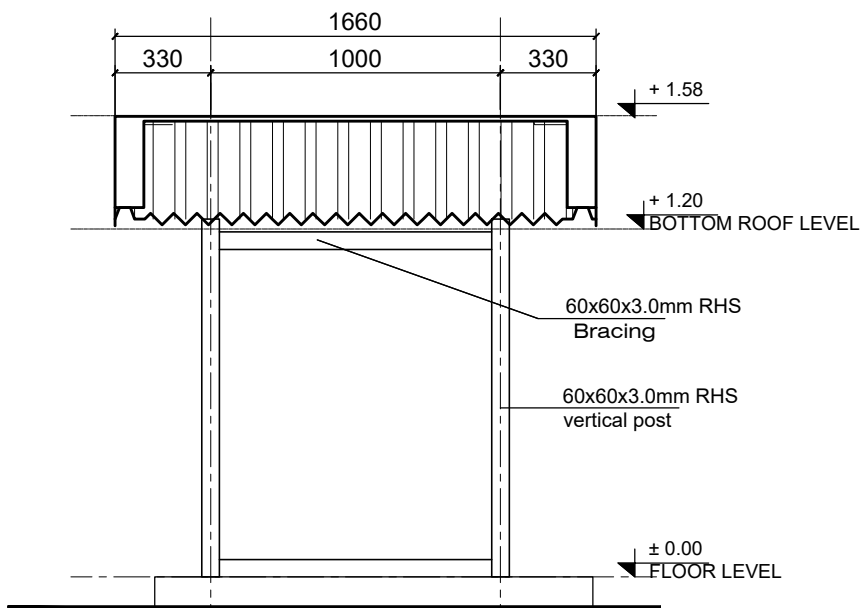
SECTION
SC 1:20



SIDE ELEVATION
SC 1:20



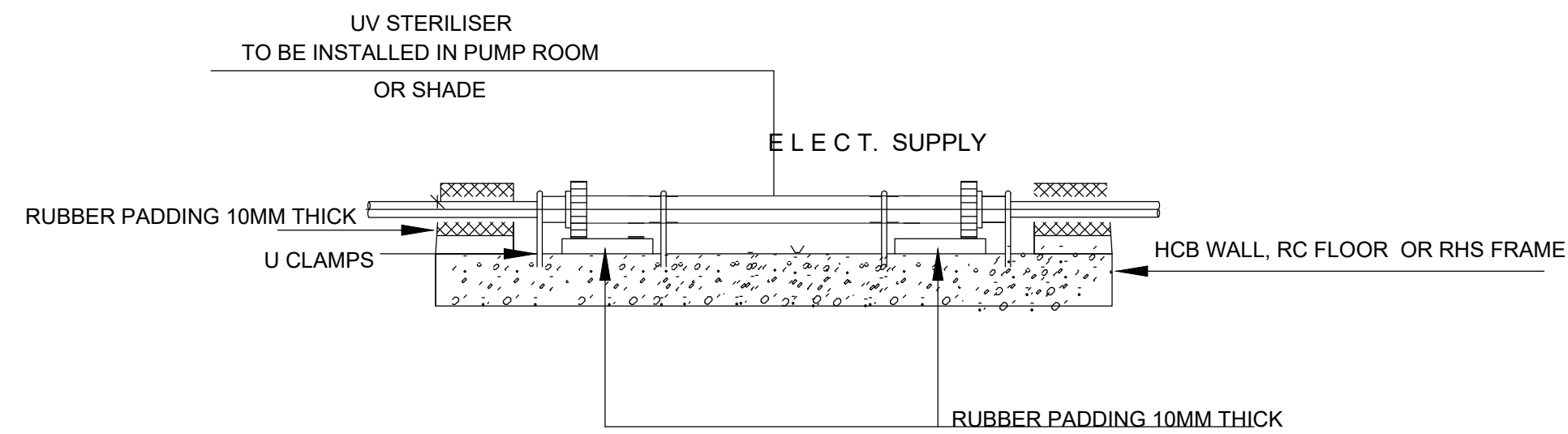
FRONT ELEVATION
SC 1:20



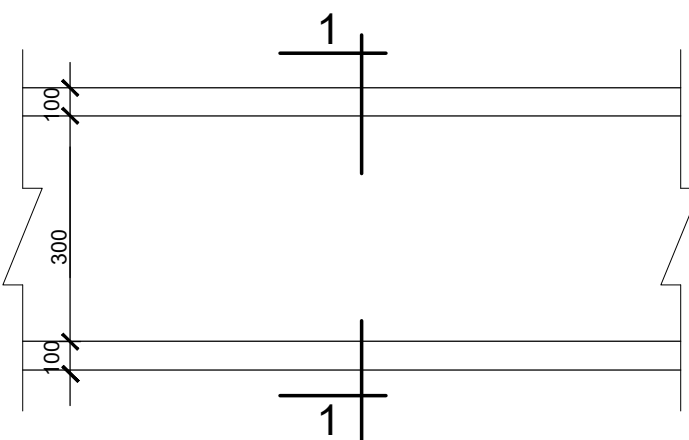
REAR ELEVATION
SC 1:20

DOOR SCHEDULE

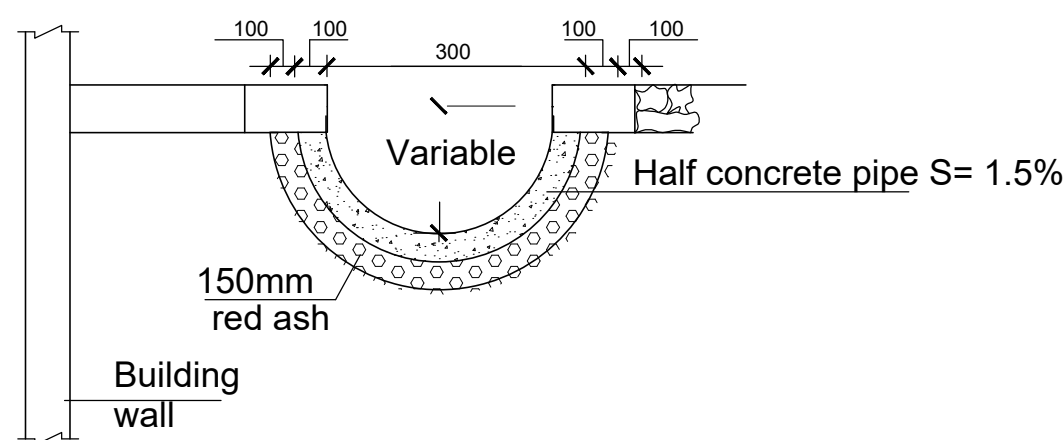
Door Name	D1
Quantity	1
Frame material	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & one coat of enamel paint
Door leaf construction	180D opening, 0.5mm casement metal pane
Ironmongry	stainless steel pull-push bar handle



Half concrete pipe ditch

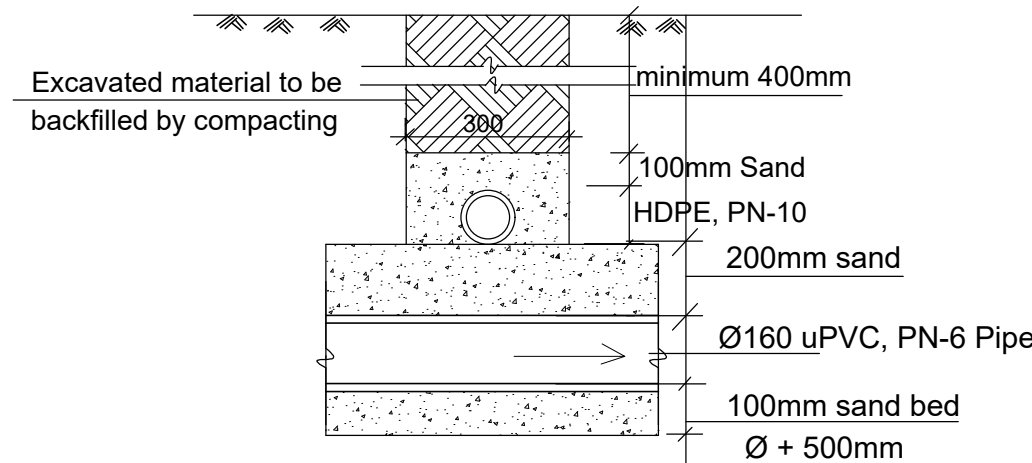
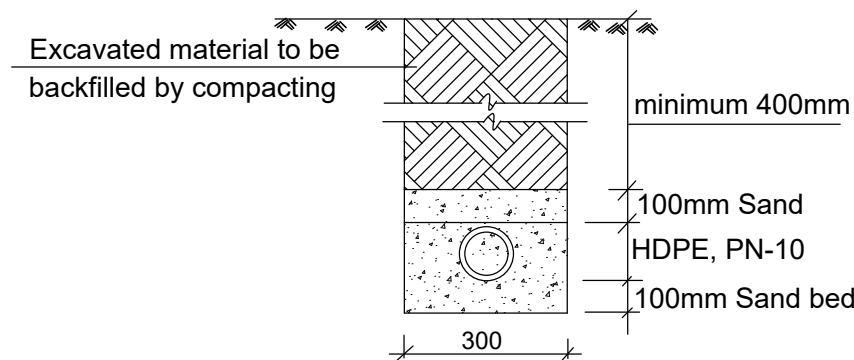


PLAN



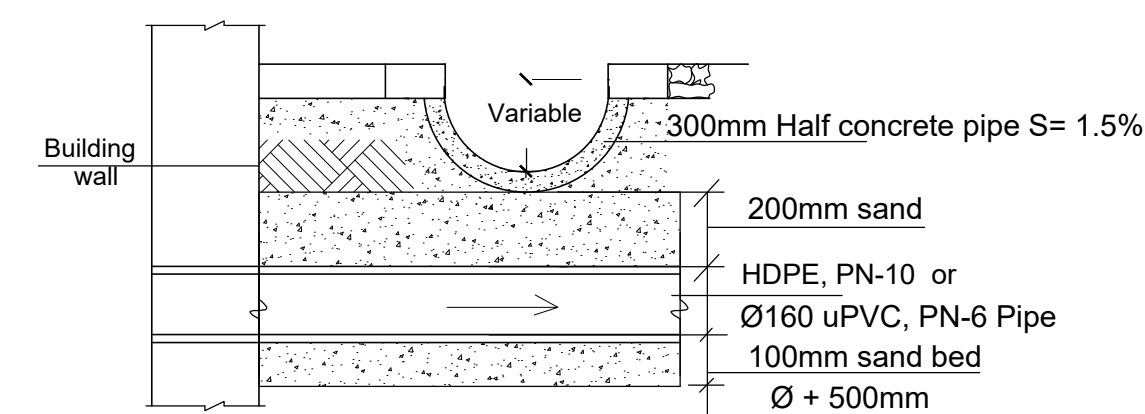
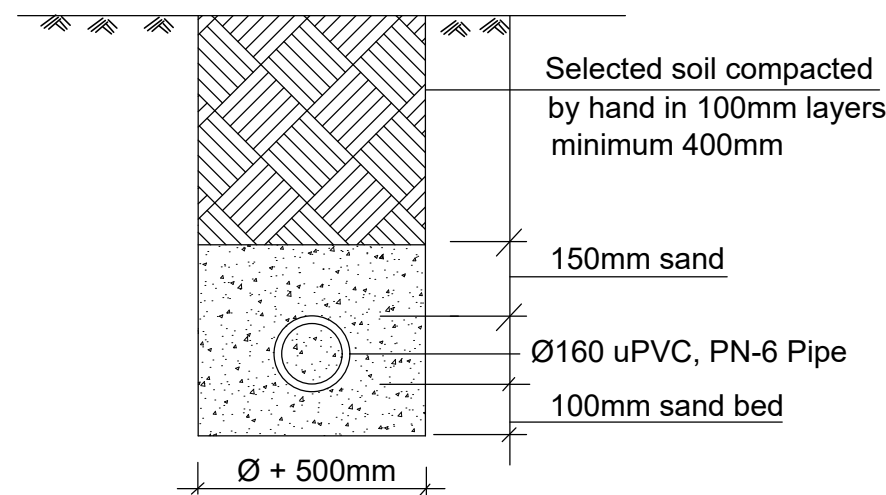
SECTION 1-1
1/2 Ø300 concrete pipe
SC 1:25

BURIED WATER SUPPLY PIPE LAYING SC 1:10



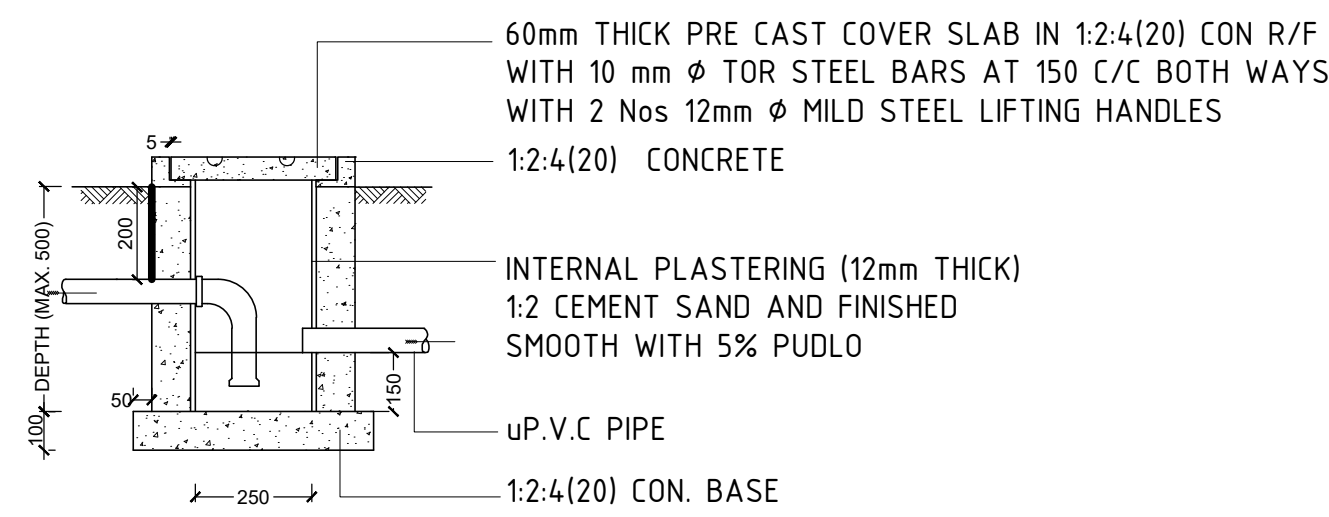
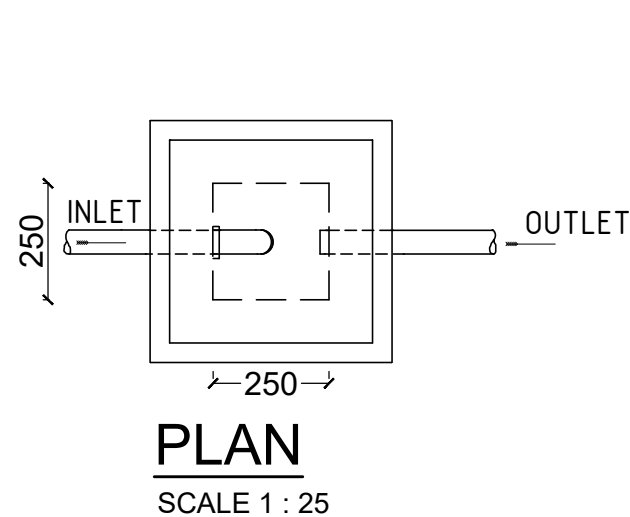
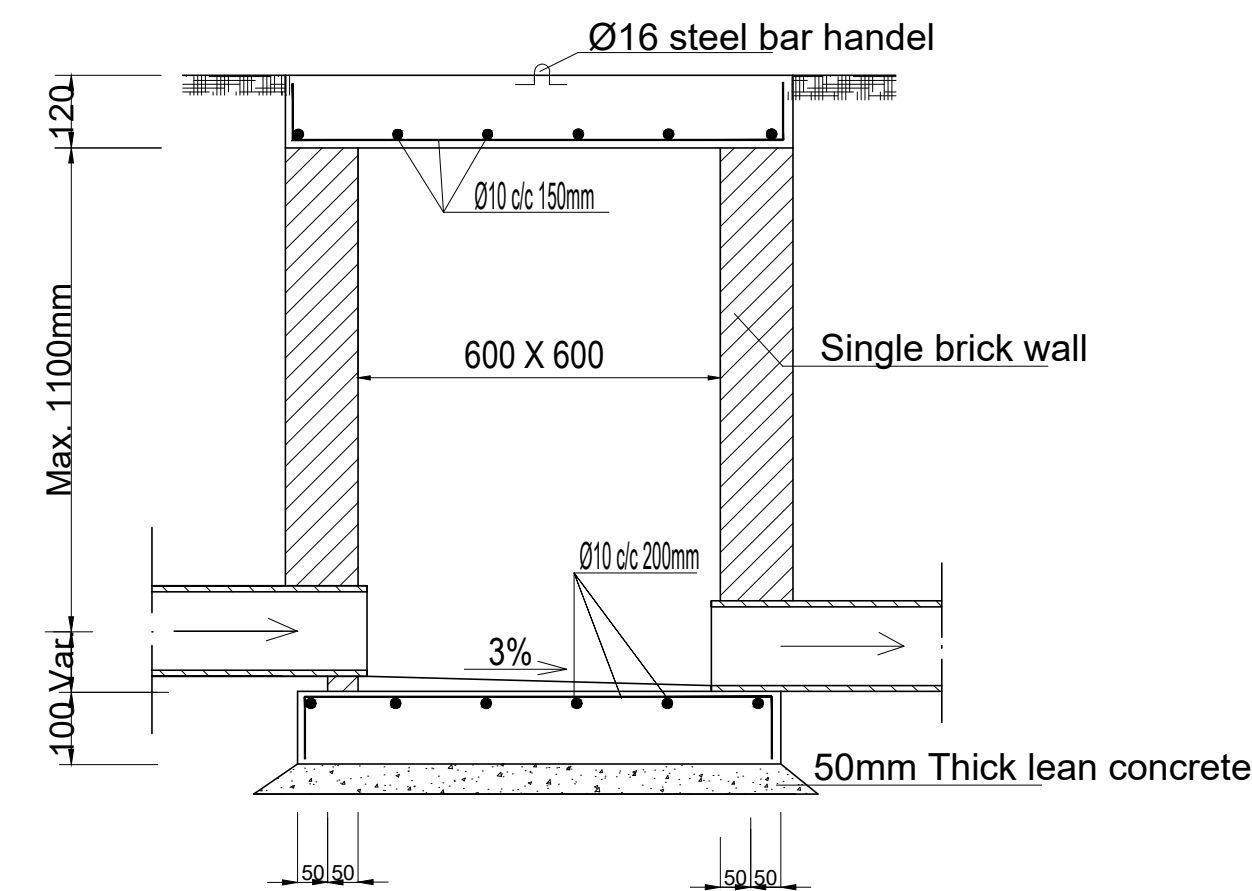
CROSSING OF WATER SUPPLY & DRAINAGE PIPE LAYING SC 1:10

BURIED FOUL WATER DRAINAGE PIPE LAYING SC 1:10

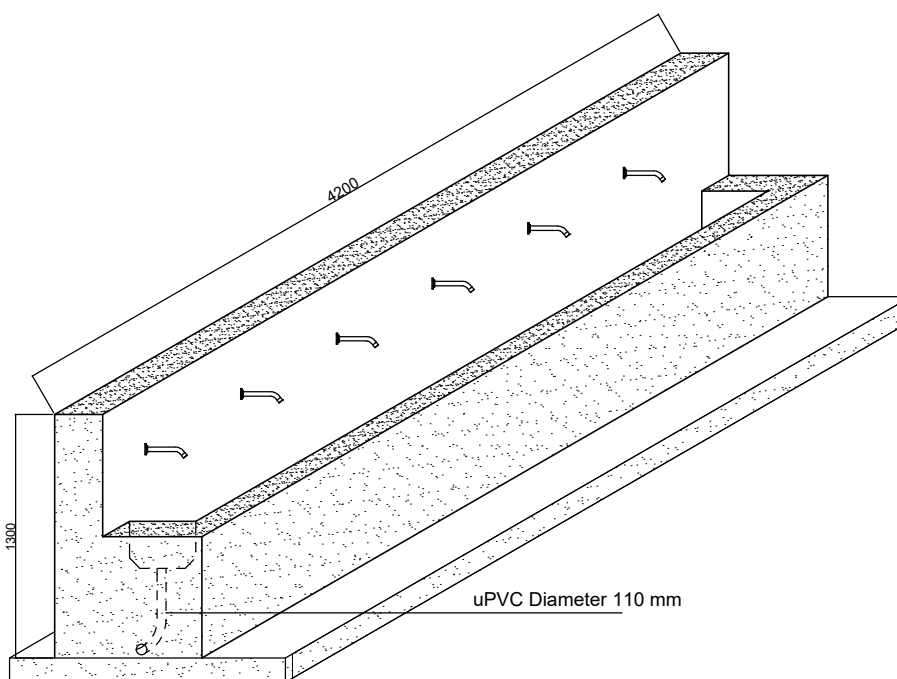
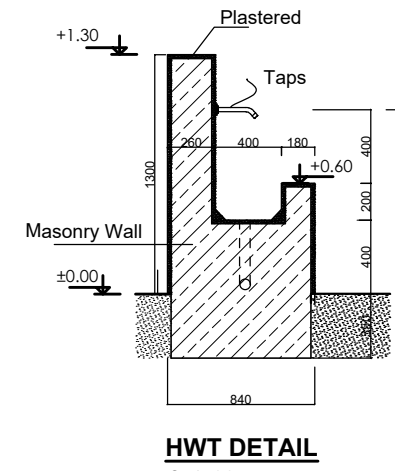


SEWER LINE WITH STORM WATER DRAINAGE SC 1:10

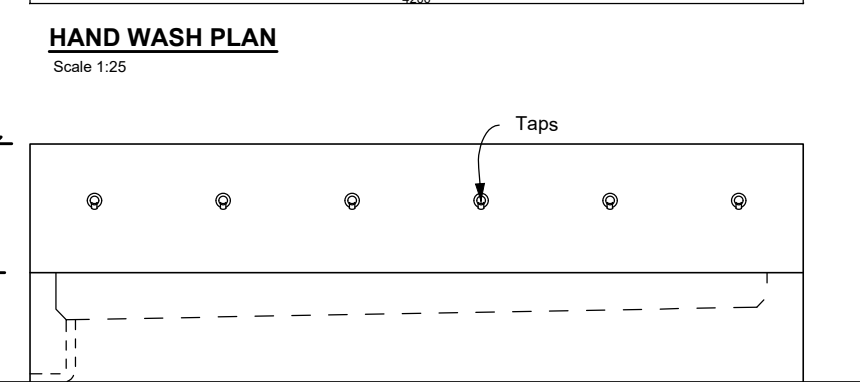
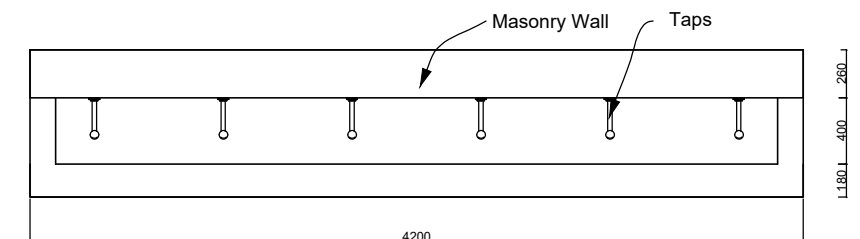
TYPICAL SECTION OF MAN HOLE FOR SITE WASTE WATER SC 1:10



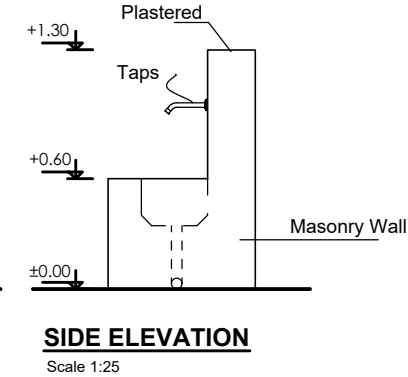
SECTION
SCALE 1:25
DETAILS OF GULLY TRAP



HAND WASH TROUGH (HWT) PERSPECTIVE VIEW
SCALE 1:25



FRONT ELEVATION
SCALE 1:25



SIDE ELEVATION
SCALE 1:25

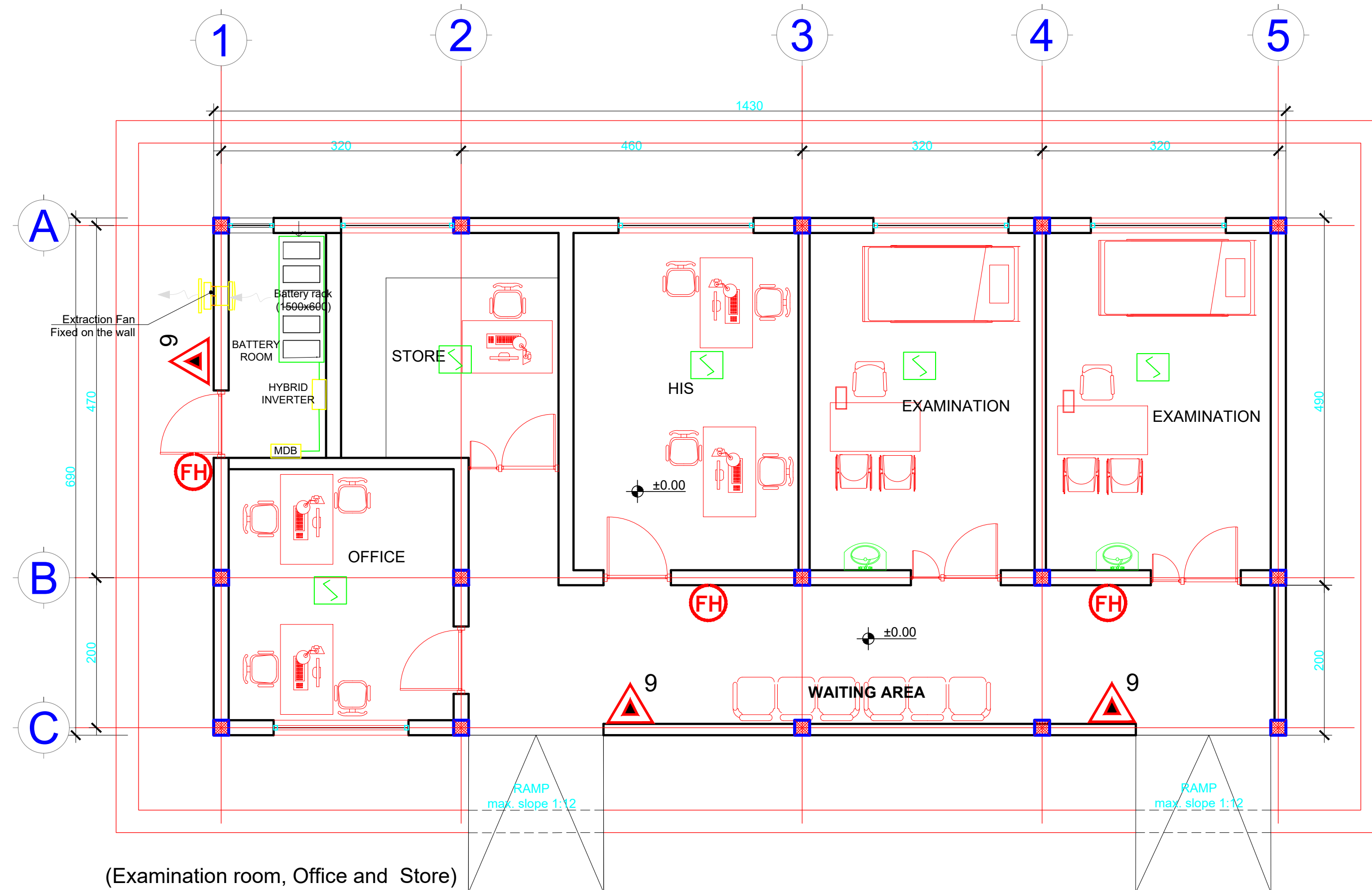
GENERAL NOTES:

Rev.	Date:	Description:	Approved
0			

KEY PLAN

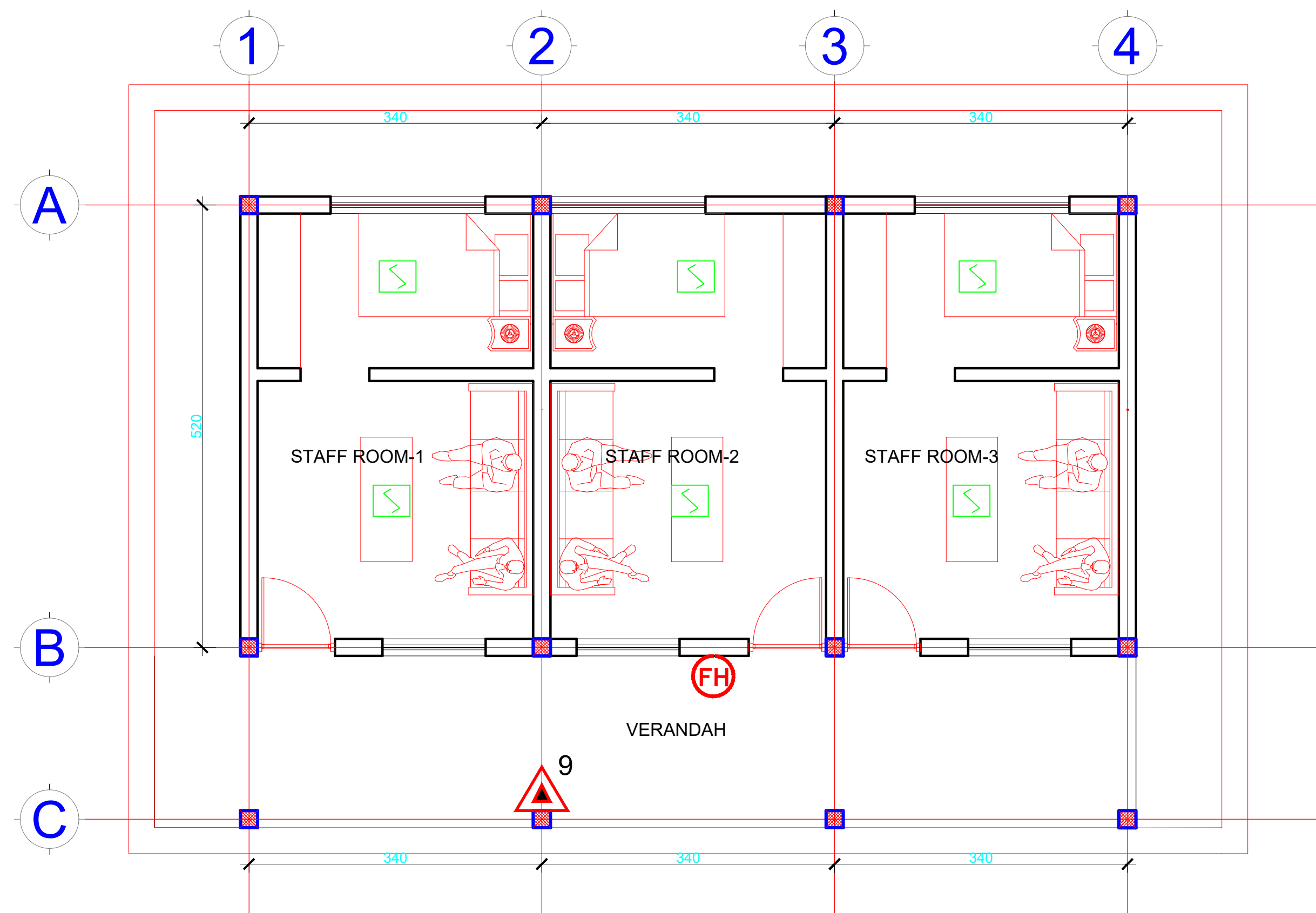
Funded By:		Partner:	
World Bank		FDRE- Ministry of Finance	
Program:		Implemented By:	
Response -Recovery-Resilience for conflict affected communities in Ethiopia		FDRE - Ministry of Finance UNOPS - ETMCO	
Project Name:		Design:	
SEMRET HEALTH POST		UNOPS-ETMCO	

DETAILS										
PUMP HOUSE, WATER POINT & PIPE TRENCH DETAILS										
Designed by			Discipline:		Dr. No:		Tot. No:		Rev No:	
YG			SN		09		09		R0	
Drawn:	Checked:	Approved:	Size:	Scale:		Date:		Rev.:		
FM	AE	SH	A1	1:20 1:10		06 / 22 / 2023		0		



(Examination room, Office and Store)

FIRE ALARM & FIRE FIGHTING LAYOUT



(Staff Residence)

FIRE ALARM & FIRE FIGHTING LAYOUT

LEGEND:

EVACUATION ROUTES

- Non-Permanent and Automatic Safety Lighting
- Normal Evacuation Route
- Final Exit
- Evacuation Itinerary (Right Exit)
- Evacuation Itinerary (Left Exit)

MEANS OF FIRST INTERVENTION / EXTINGUISHERS

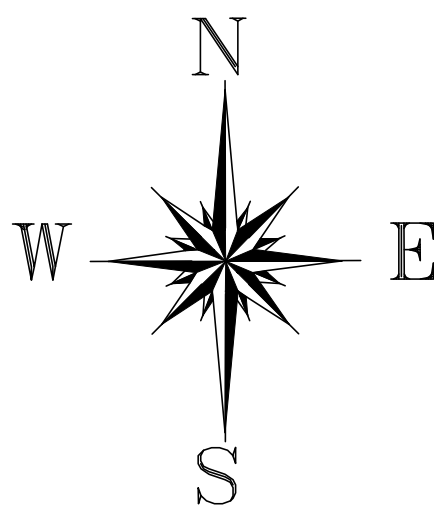
- ABC Chemical Extinguisher
- Portable water fire extinguisher (H2O), 9 Liters.
- 50 l wheeled water fire extinguisher
- Fire Blanket
- Portable Fire Extinguisher

GENERAL NOTES:

SIGNAGE



Rev.	Date:	Description:	Approved
0			



KEY PLAN

Funded By:		Partner:	
World Bank		FDRE- Ministry of Finance	
Program:		Implemented By:	
Response -Recovery-Resilience for conflict affected communities in Ethiopia		FDRE - Ministry of Finance UNOPS - ETMCO	
Project Name:		Design:	
SEMRET HEALTH POST		UNOPS-ETMCO	

Drawing Title:				
Fire Alarm & Firefighting Layout				
Designed by	Discipline:	Dr. No:	Tot. No:	Rev. No:
YG	FF	02	02	R0
Drawn:	Checked:	Approved:	Size:	Scale:
LA	YG		A1	1:50
		Date:	Rev.:	
		02 / 06 / 2023	0	