

PRIMARY HEALTH CARE UNIT (PHCU) (Black Cotton Soil)

GENERAL NOTES:



1. All dimensions are in millimeters unless otherwise stated.
2. All dimensions are to be checked and confirmed on site before commencement of any work.
3. Written dimensions override scaled dimensions.
4. Depth of pad foundation 1200mm.
5. Depth of strip foundation 750mm.
6. Any discrepancy or changes is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
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Program



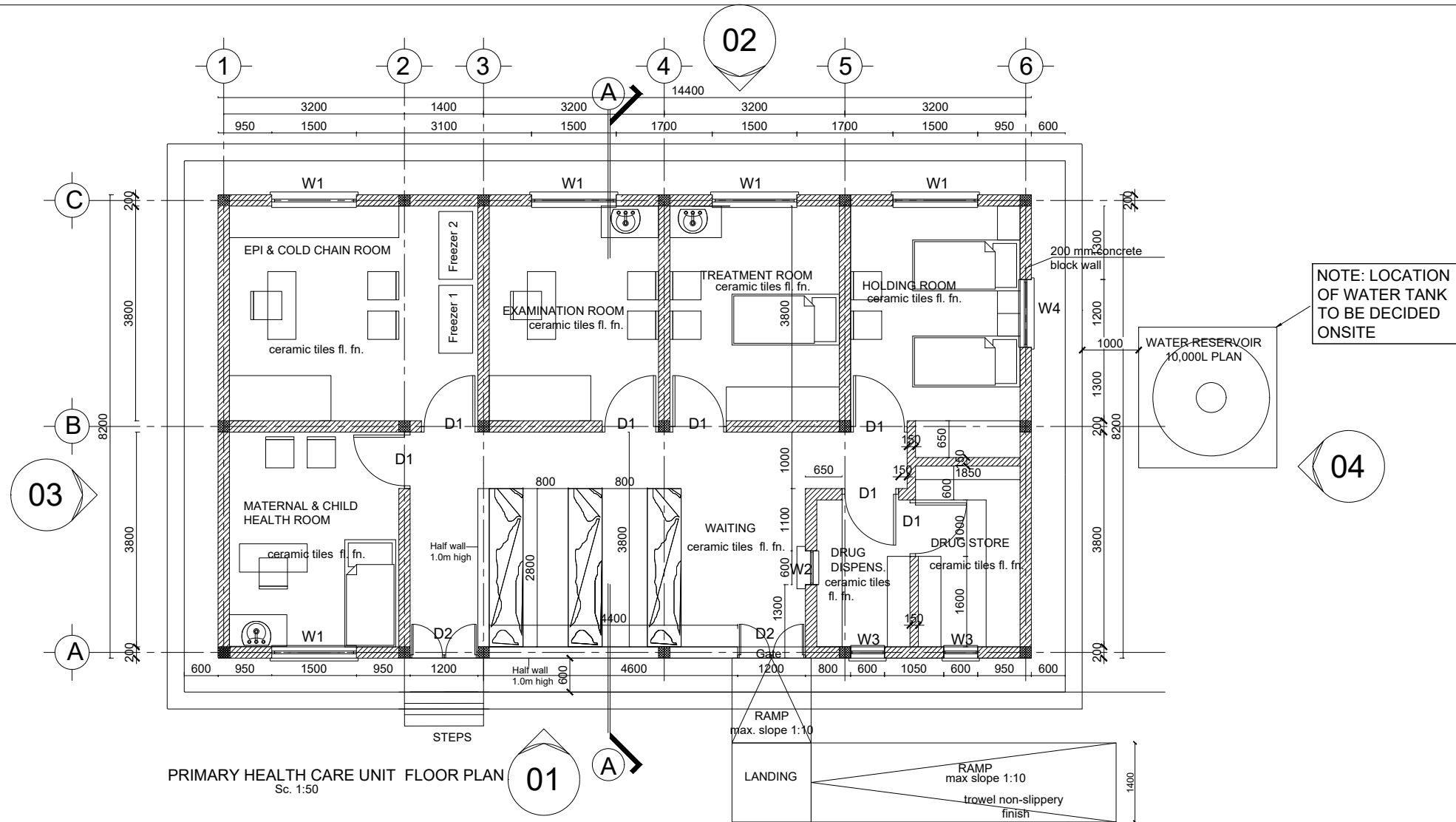
Client:
GOVERNMENT OF SOUTH SUDAN

Implemented By: 

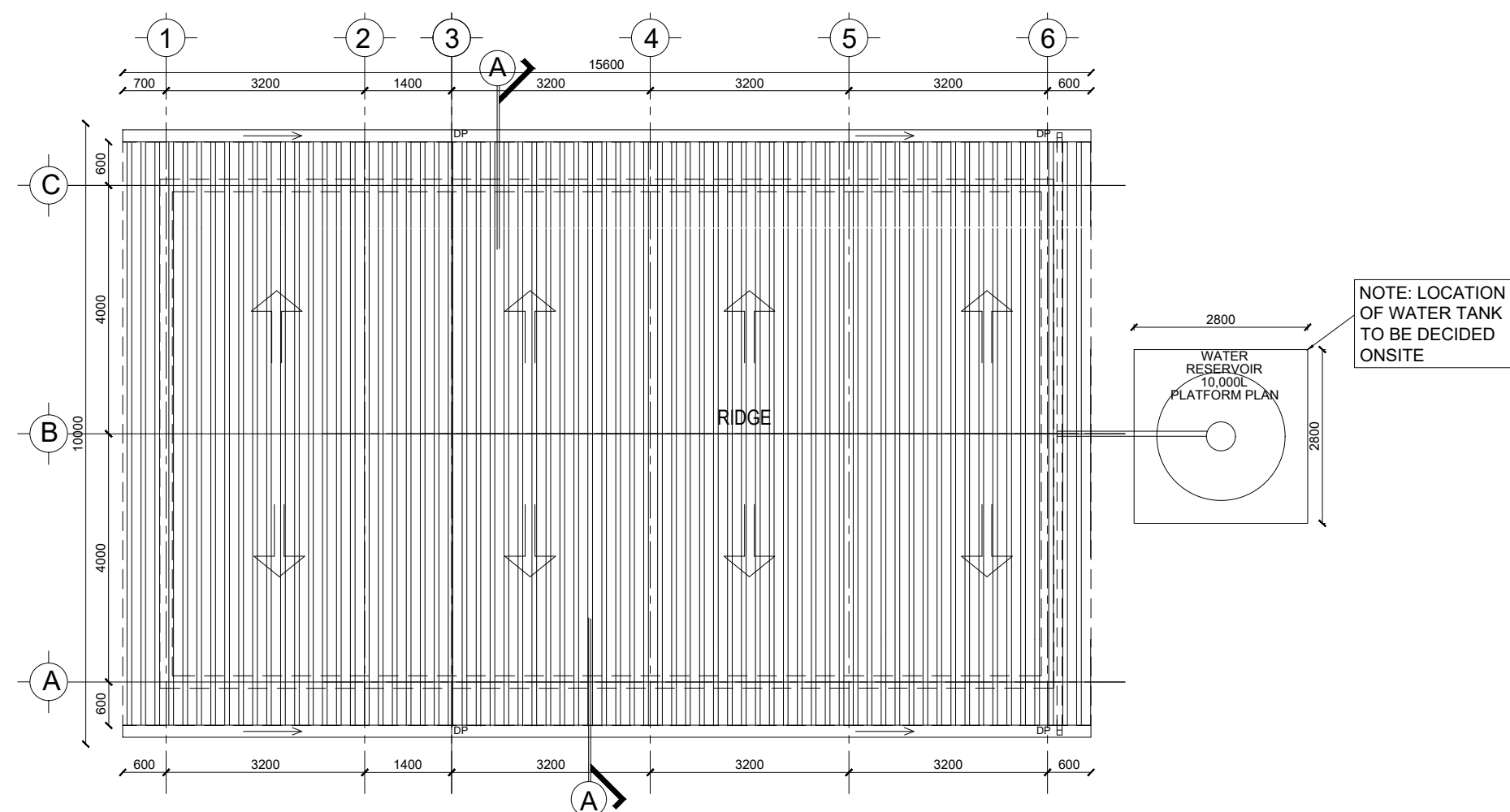
Project:
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title
COVER PAGE

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 1/16	Scale: AS SPECIFIED
Date: 28 May 2024	Rev: 2



PRIMARY HEALTH CARE UNIT FLOOR PLAN
Sc. 1:50



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Program

Enhancing Community Resilience and Local Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:

IOM
UN MIGRATION

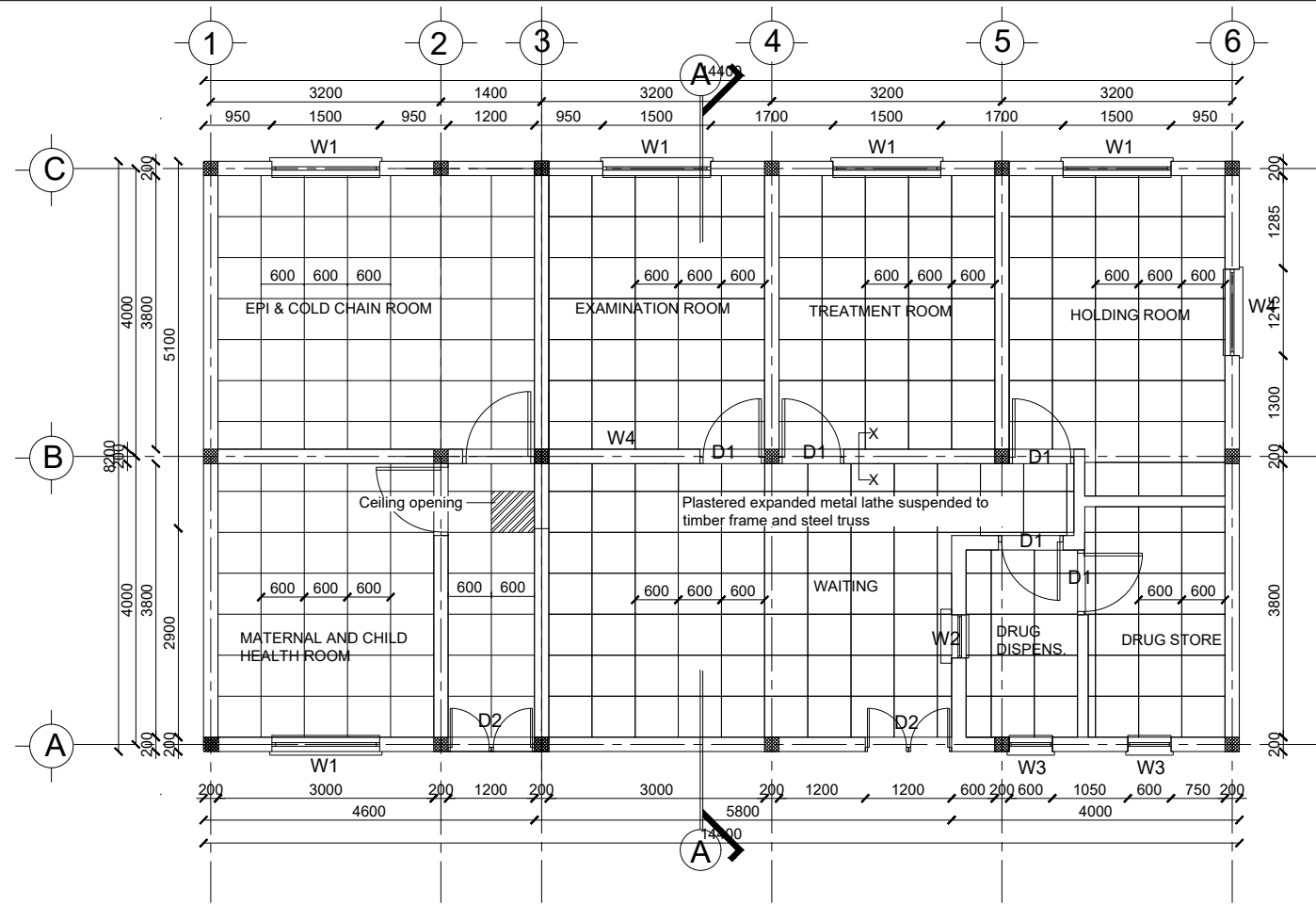
Project:

PROPOSED PRIMARY HEALTH CARE UNIT

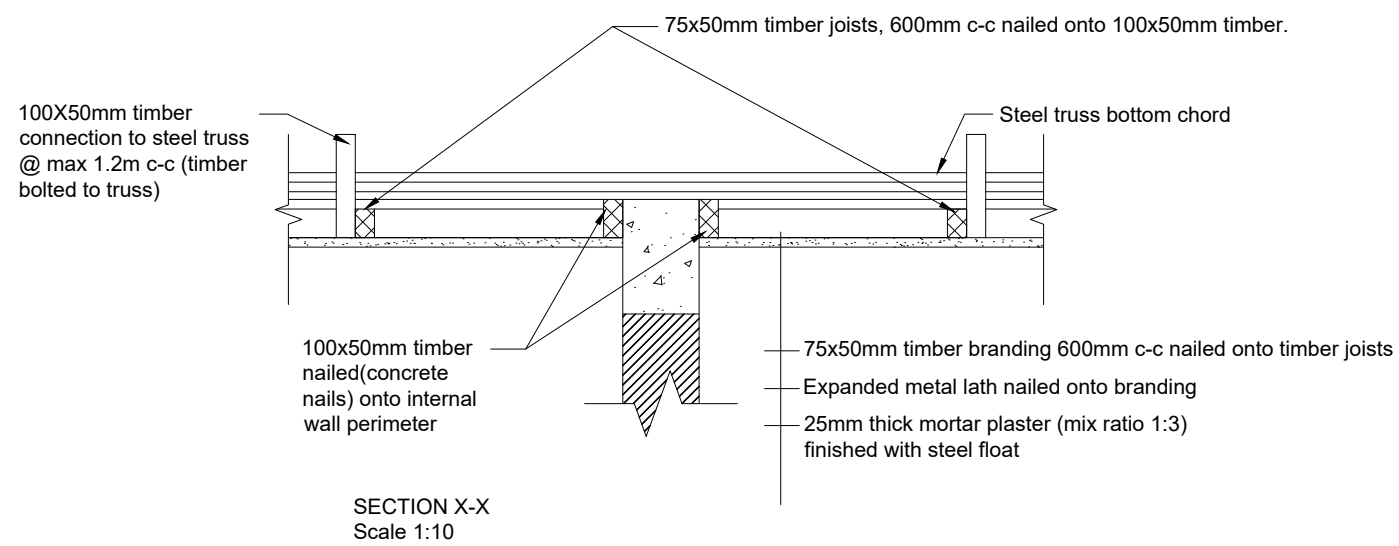
Drawing Title

FLOOR PLAN AND ROOF PLAN

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Date: 28 May 2024	Rev: 0



PRIMARY HEALTH CARE UNIT CEILING PLAN
Sc. 1:50



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Program



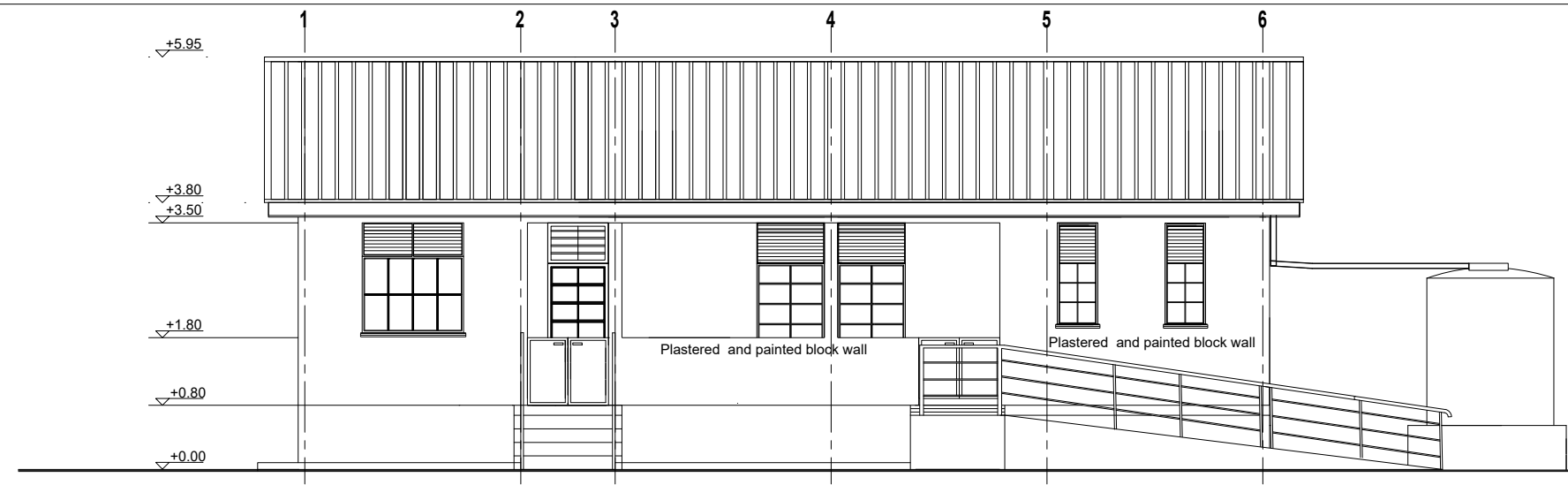
Client:
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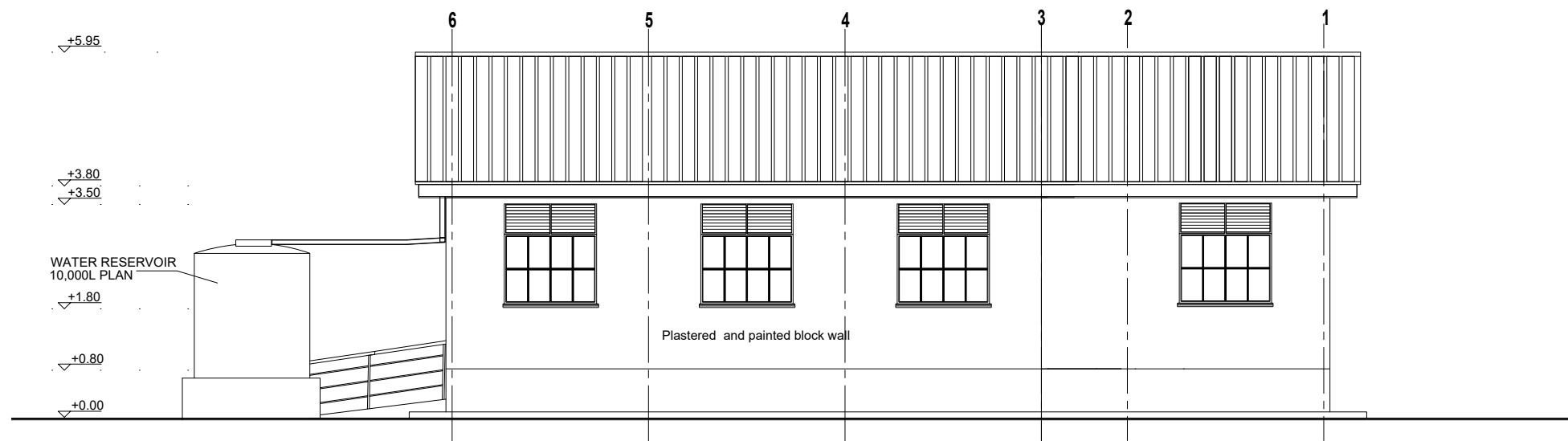
Project:
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title
CEILING PLAN

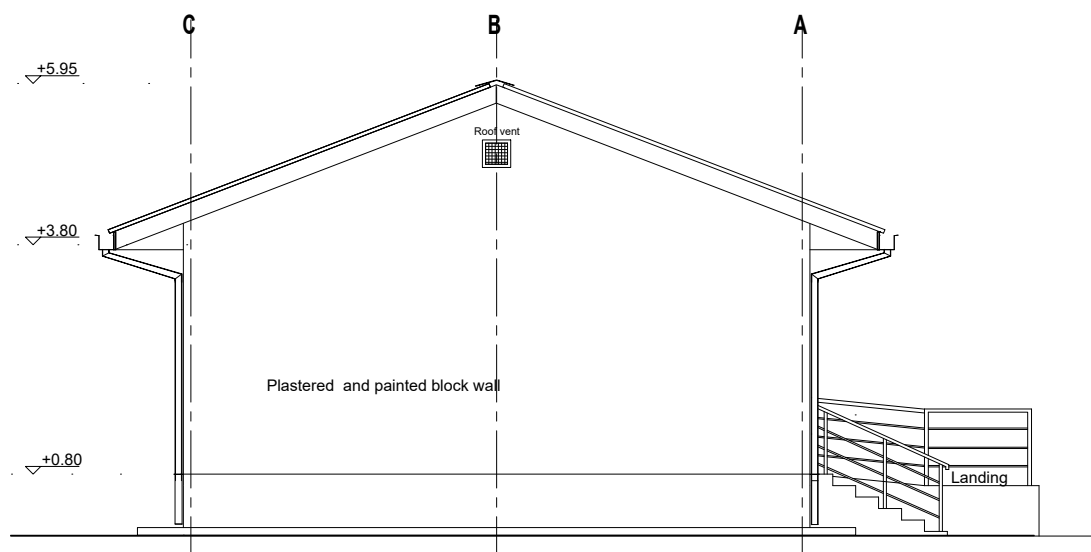
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Date: 28 May 2024	Rev: 2



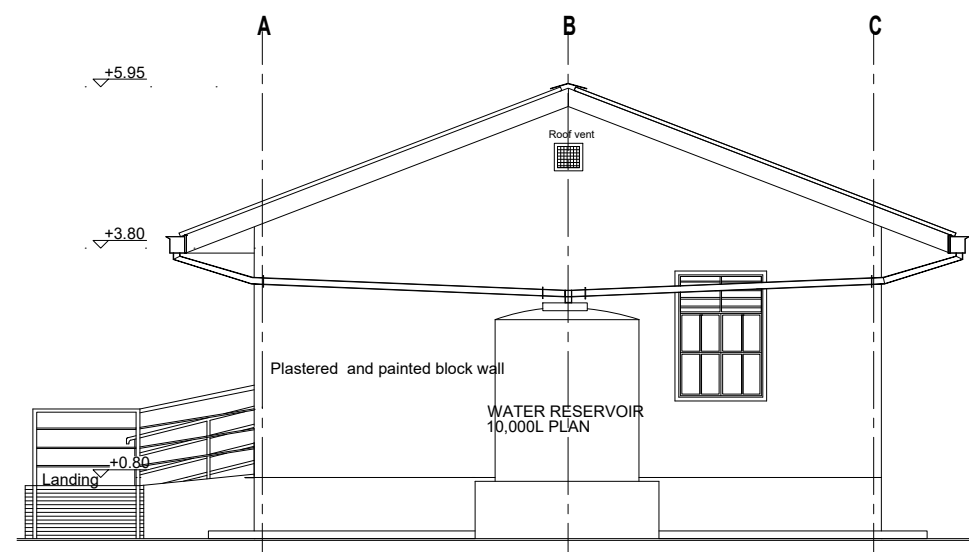
01 FRONT ELEVATION
Sc. 1:50



02 REAR ELEVATION
Sc. 1:50



03 LEFT SIDE ELEVATION
Sc. 1:50



04 RIGHT SIDE ELEVATION
Sc. 1:50

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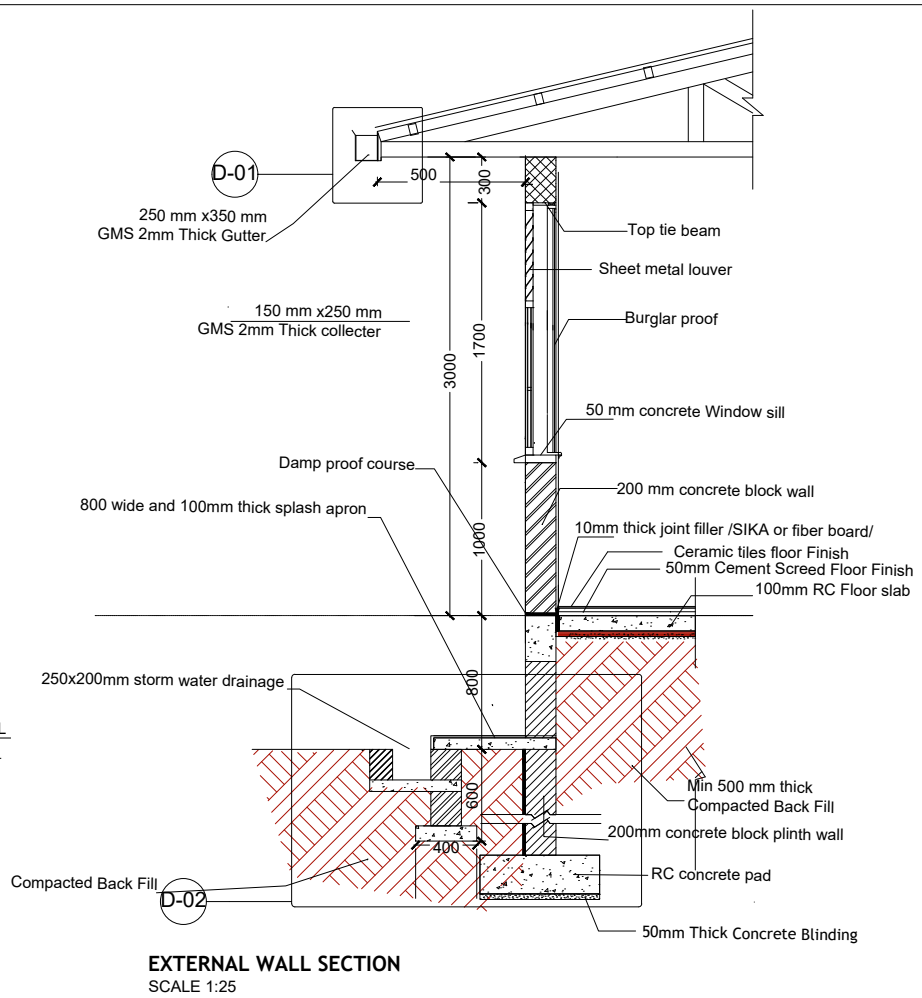
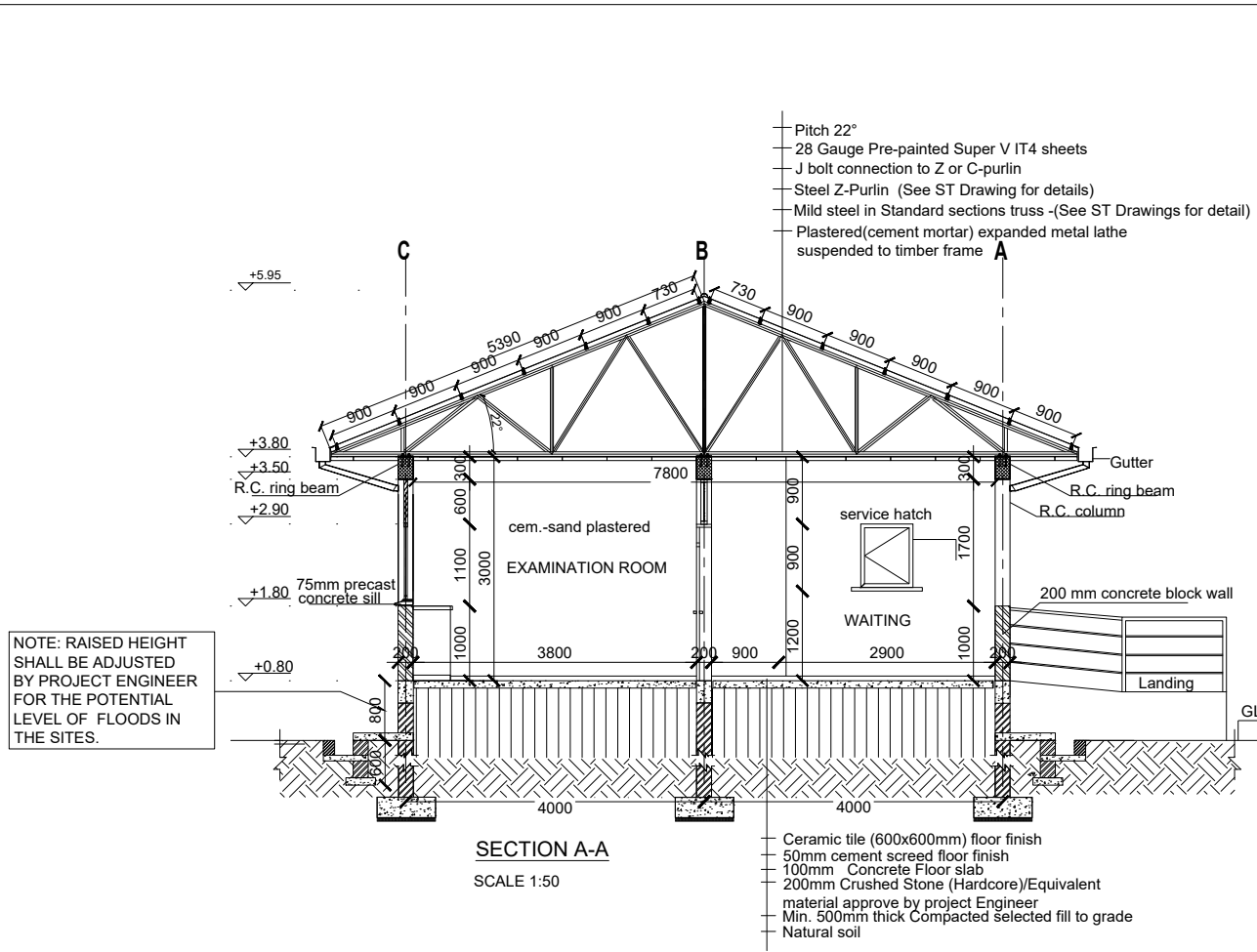
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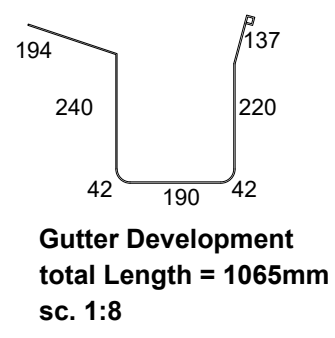
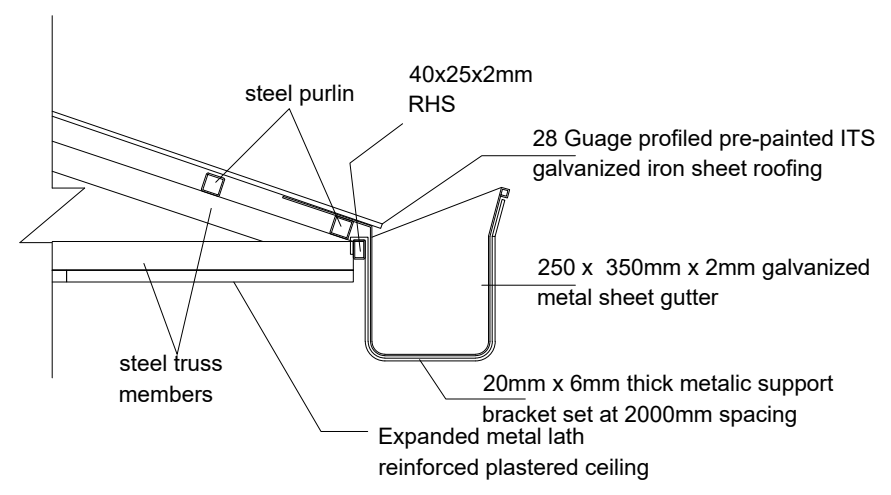
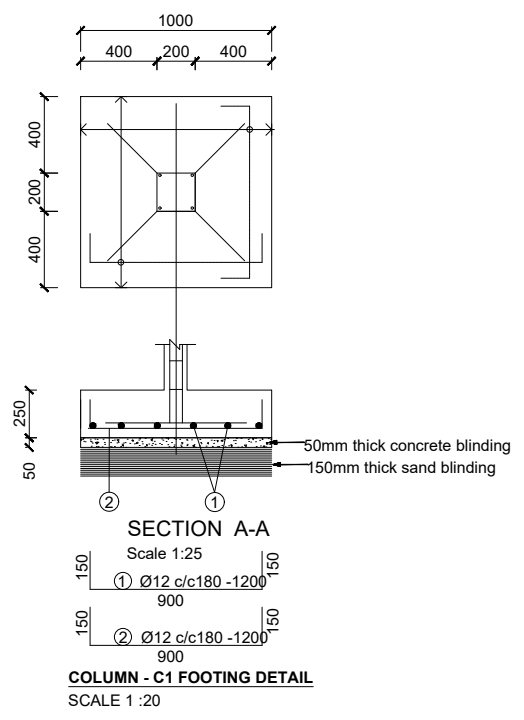
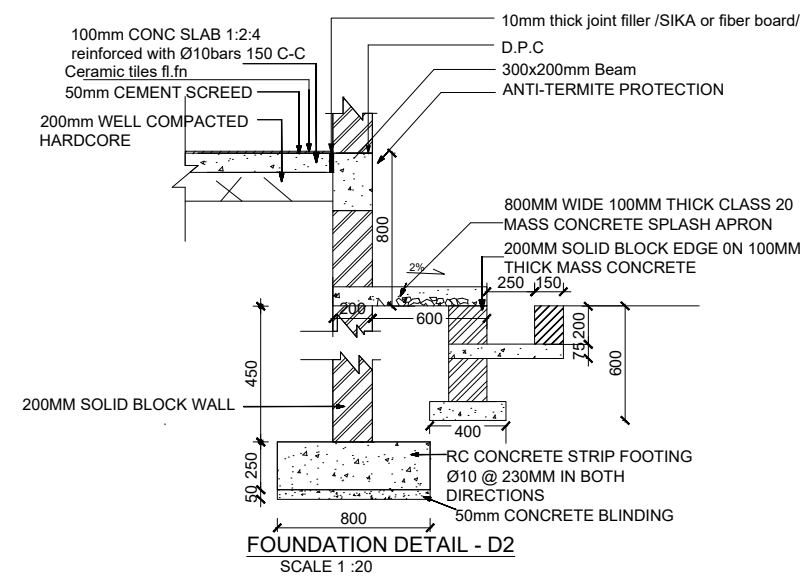
Implemented By:
PROJECT: PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

ELEVATIONS	
Designed By: H.A	Drawn by: H.A
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Sheet #: 4/16	Scale: AS SPECIFIED
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Program

Enhancing Community Resilience and Local Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:

IOM UN MIGRATION

Project:

PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

SECTION AND DETAILS

Designed By: H.A	Drawn by: H.A
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Sheet #: 5/16	Scale: AS SPECIFIED
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STRUCTURAL NOTES:

- I) Building shall be founded on load bearing stone/concrete block masonry wall having a depth of 750mm and pad foundation depth of 1200mm from the natural ground level with bottom of excavation compacted prior to laying the foundation wall.
- II) Stone masonry foundation shall be on reinforced concrete strip footing placed on the natural black cotton soil and achieve a minimum bearing capacity of 100 KN/m².
- III) Foundation trench excavation to be approved by the Engineer prior to the construction of footing and the stone/block masonry foundation.

- IV) Material Specification
 - A) Grade of Structural Concrete
 - C-25 (Cube characteristics strength of 25 MPa, mix ratio 1:1.5:3) for columns and beams;
 - C-20 (Cube characteristics strength of 20 MPa, mix ratio 1:2:4) for floor slab.
 - B) Concrete reinforcement bar
 - Grade 460 (Characteristics yield strength of $f_{yk} = 460$ MPa)
 - C) Steel hollow section for roofing system, verandah column and plates
 - Grade C: Tensile Strength = 375 Mpa
 - Yield Strength = 275 Mpa
 - D) Grade of Bolts
 - Grade 4.6: Yield Strength = 240 Mpa
 - Tensile Strength = 400 Mpa

- V) Durability Requirements
 - ❖ Concrete Cover to Reinforcement
 - Floor slabs: 25mm.
 - Beams: 25mm
 - Columns: 25mm
 - All foundation (below the ground level): 50mm
 - ❖ Protection of steel work
 - Surface preparation by blast cleaning, pickling process or where approved by wire brushing
 - Application of one coat of an approved pre-fabrication fabrication primer e.g. Zinc chromate
 - Two coats of an approved paint system to be proposed by Architect, one applied at shop and the other on site after erection.

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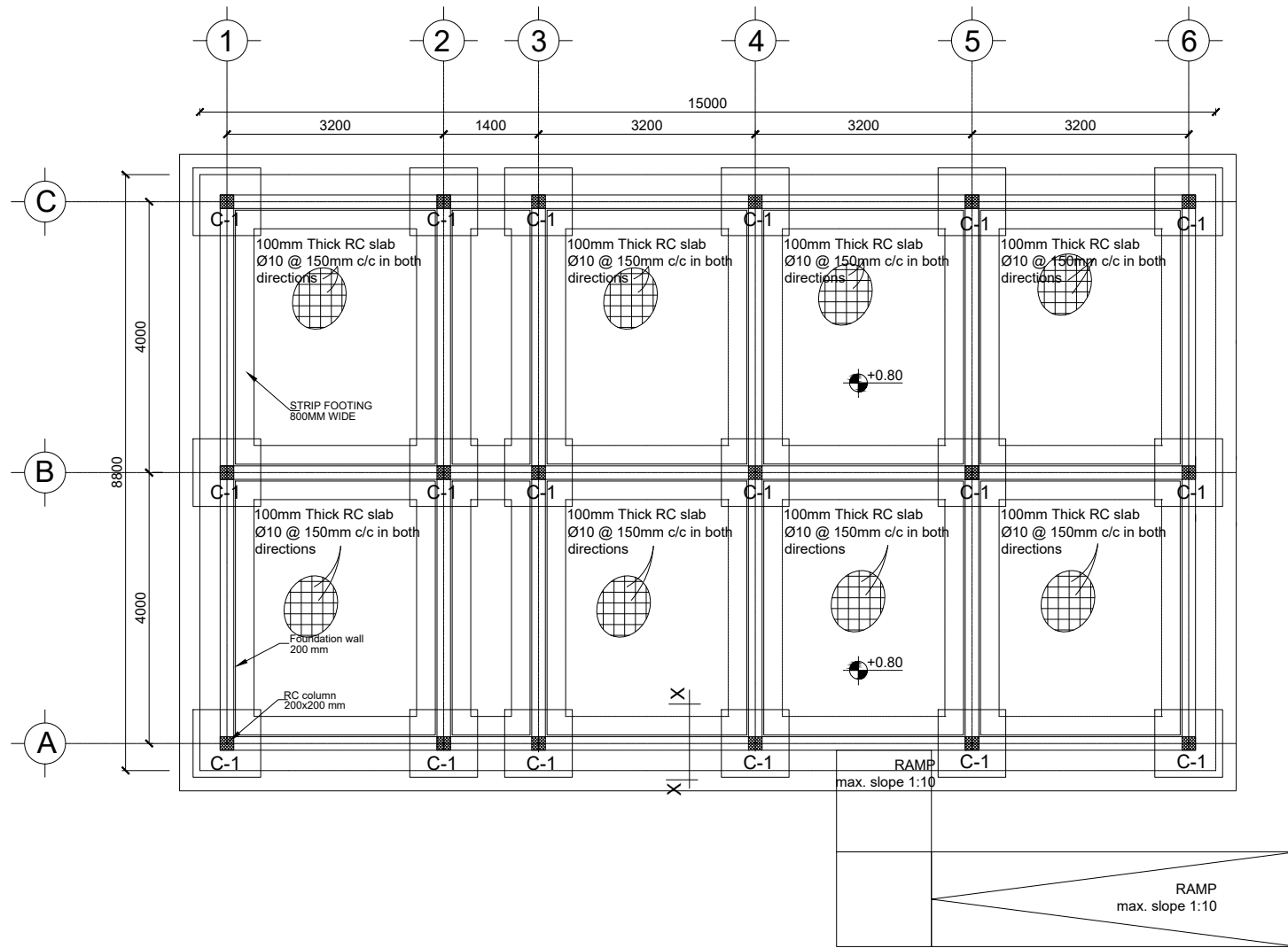
Project:

PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

STRUCTURAL NOTES

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Sheet #: 6/16	Scale: AS SPECIFIED
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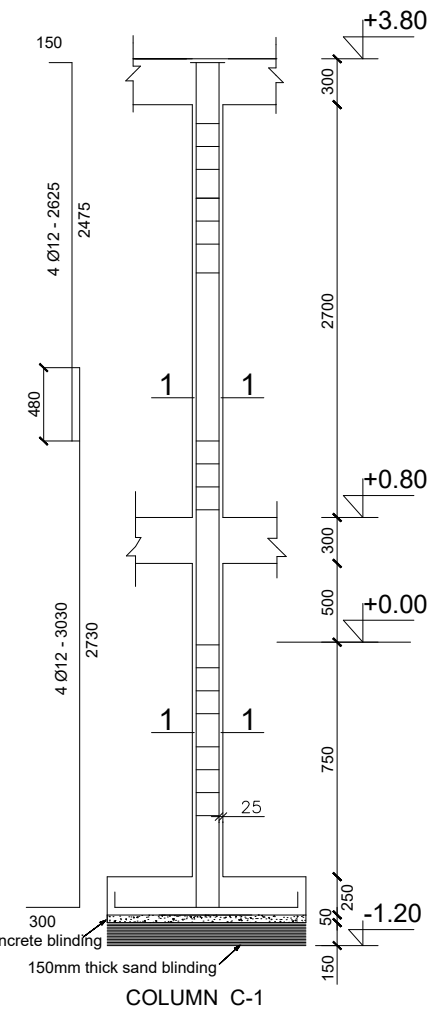
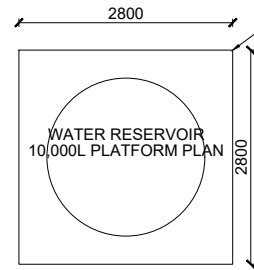


GROUND FLOOR SLAB REINFORCEMENT, BEAM, COLUMN AND PAD LAYOUT
SCALE 1:50

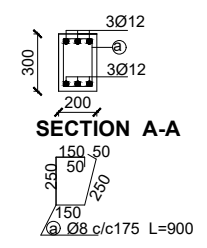
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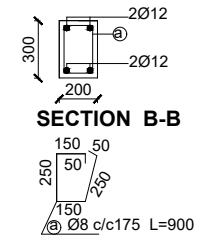
NOTE: LOCATION OF WATER TANK TO BE DECIDED ONSITE



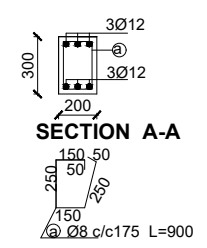
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SCALE 1:25



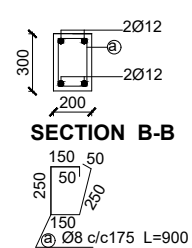
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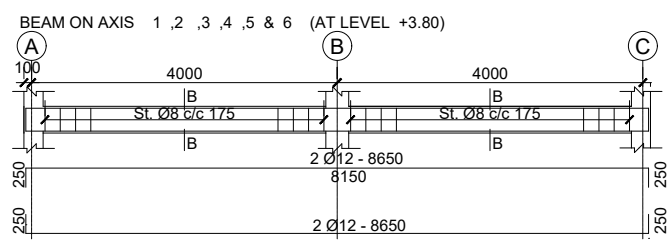
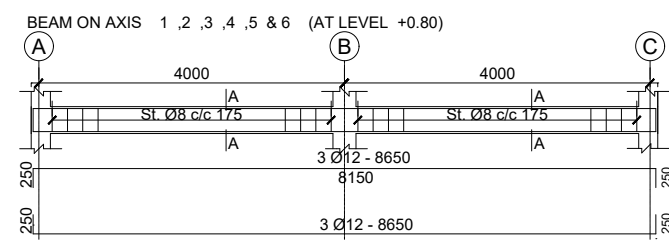
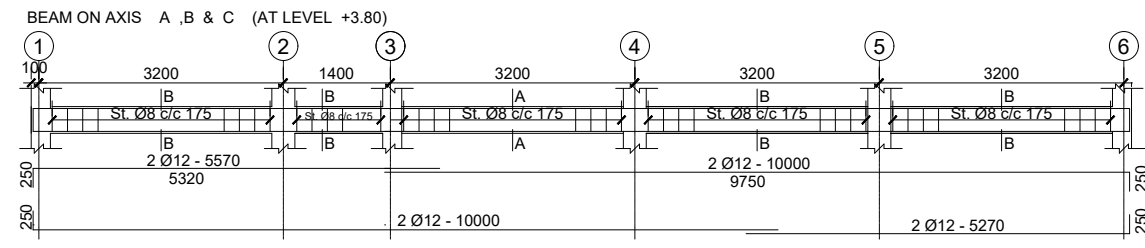
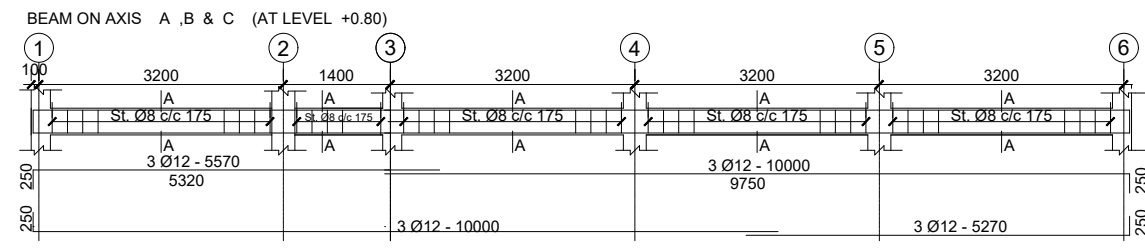
SECTION B-B



SECTION A-A



SECTION B-B



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Program

Enhancing Community Resilience and Local Governance Project

Client:
GOVERNMENT OF SOUTH SUDAN

Implemented By:

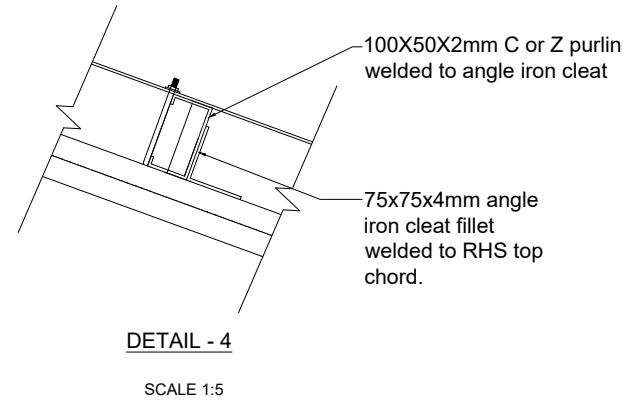
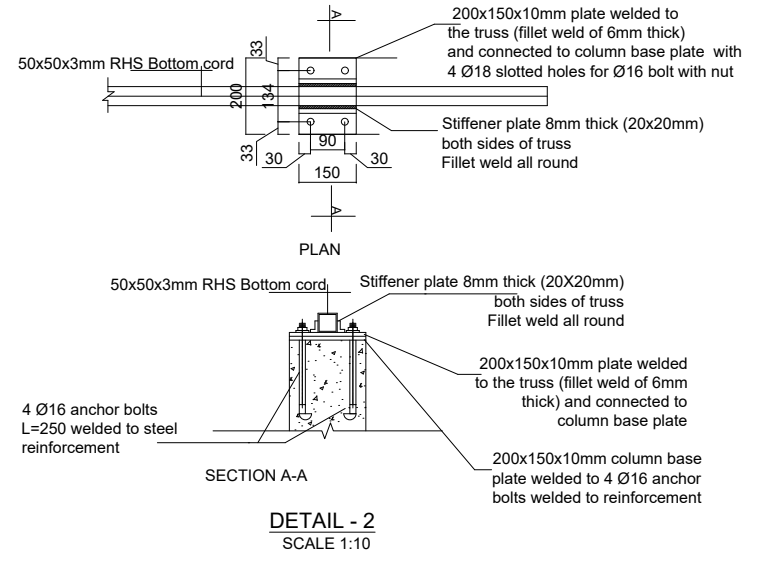
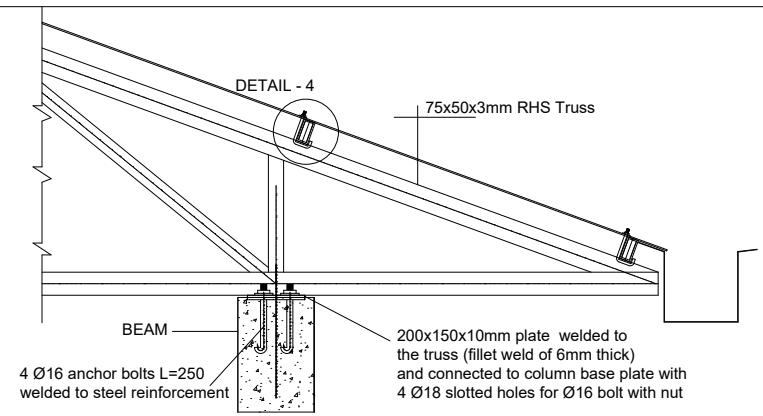
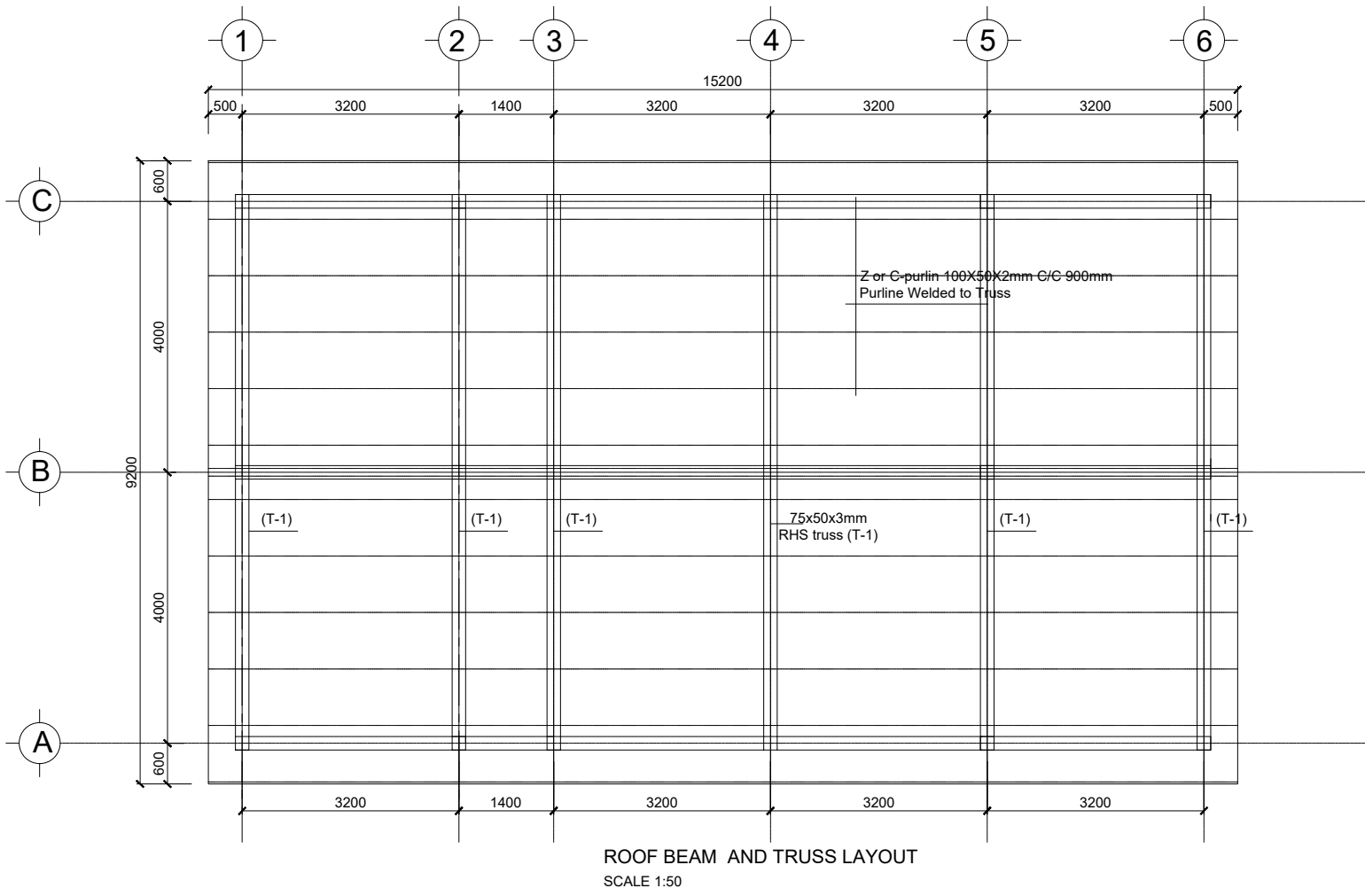
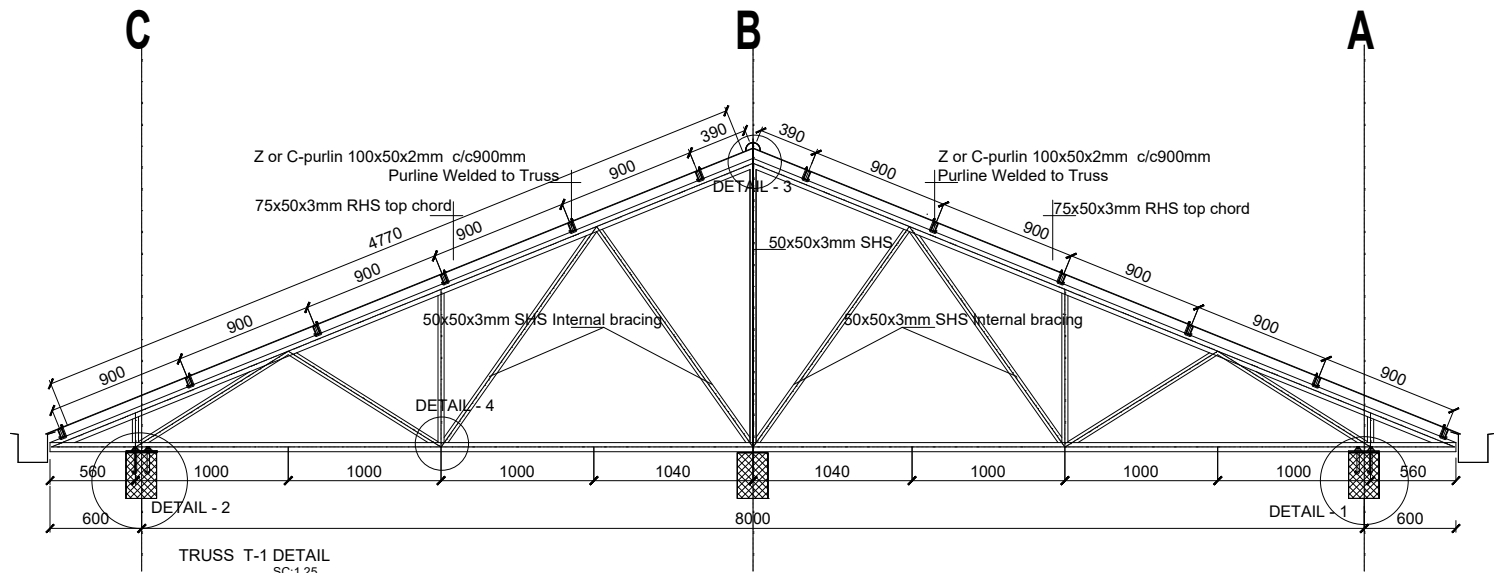
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UN MIGRATION

Project:
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

STRUCTURAL DETAILS

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 7/16	Scale: AS SPECIFIED
Date: 28 May 2024	Rev: 2



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Program

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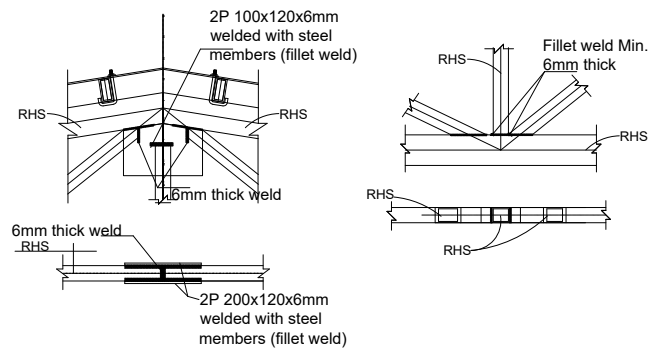
Project:

PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

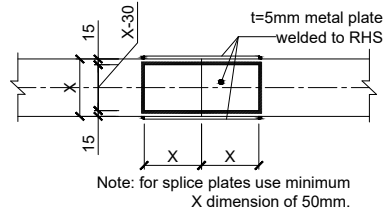
ROOF TRUSS DETAILS

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Sheet #: 8/16	Scale: AS SPECIFIED
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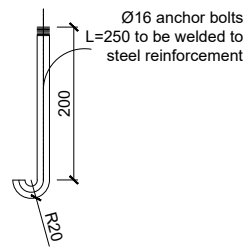


DETAIL - 3
SCALE 1:10

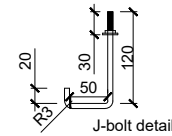
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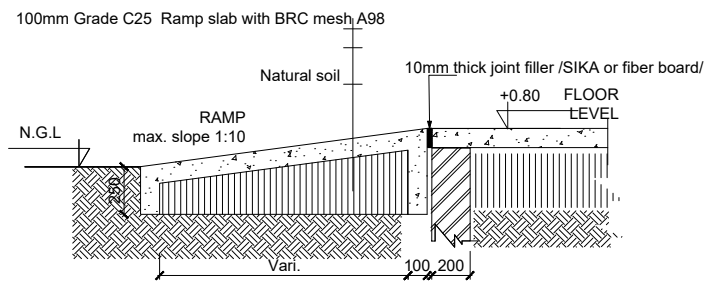
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SCALE 1:10



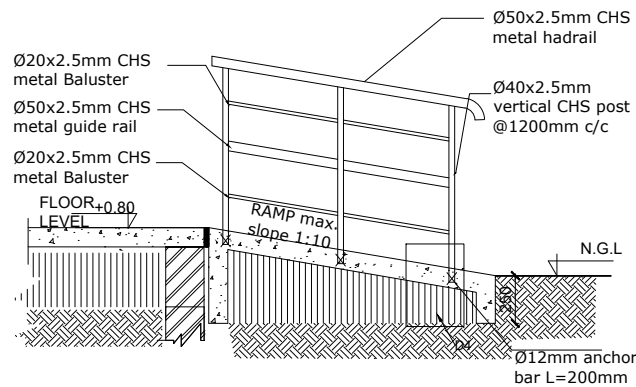
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SCALE 1:5



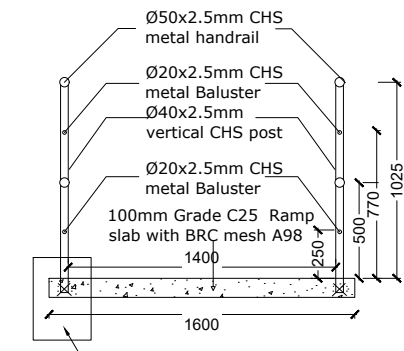
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SCALE 1:5



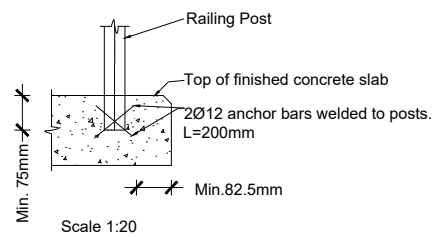
RAMP DETAIL
SCALE 1:20



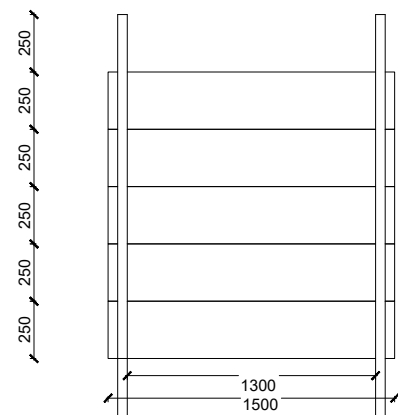
TYPICAL RAMP HANDRAIL DETAIL
SCALE 1:20



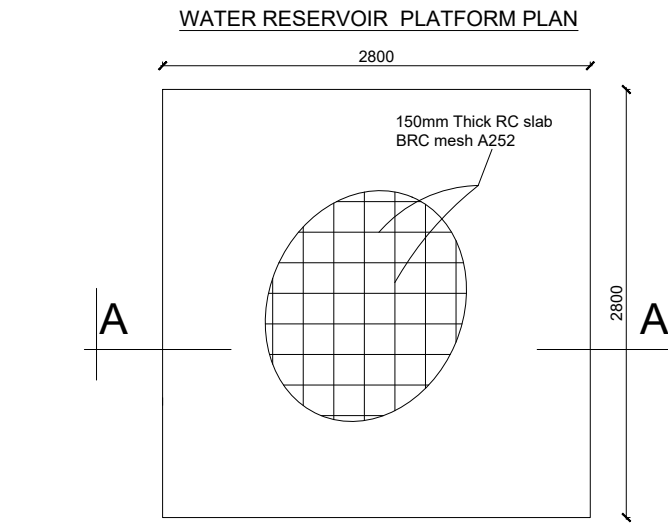
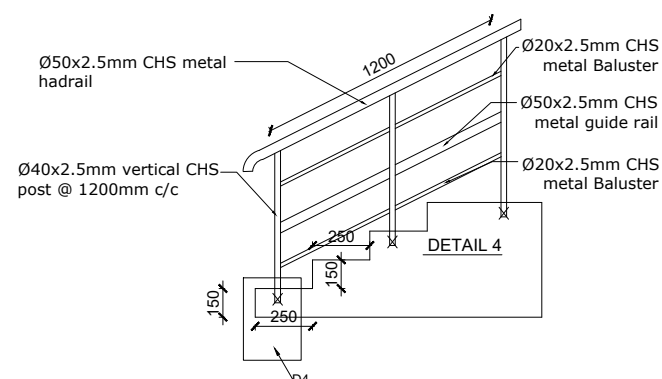
RAMP HANDRAIL CROSS-SECTION
SCALE 1:20



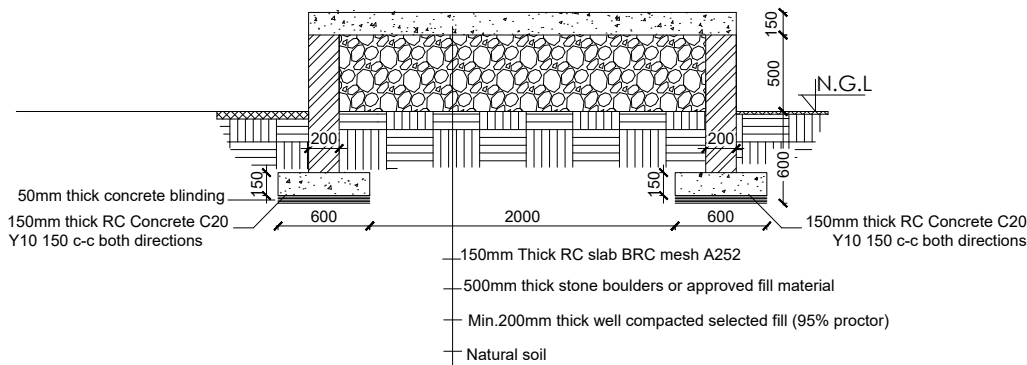
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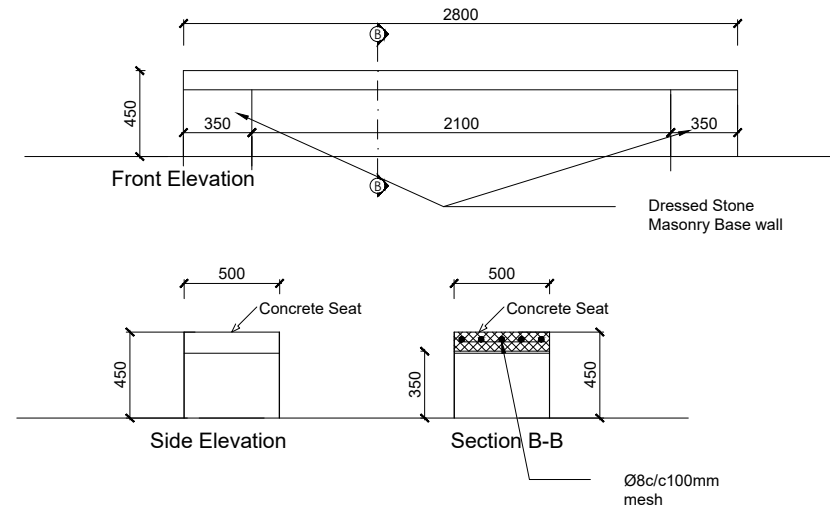
TYPICAL STEP WITH HANDRAIL PLAN
Scale 1:20



PLAN
SCALE 1:25



SECTION A-A
SCALE 1:25



CONCRETE SEAT DETAILS
SCALE 1:20

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Implemented By:

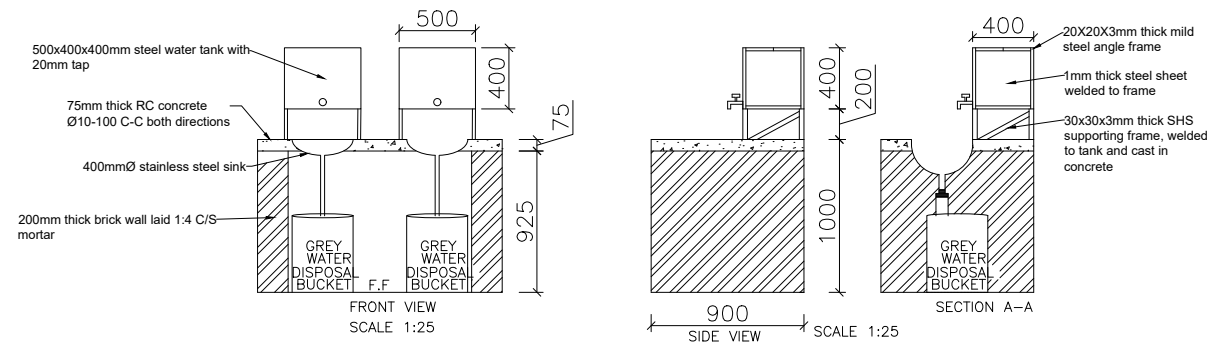
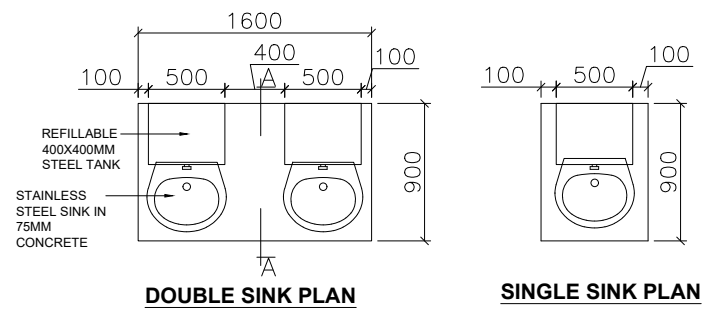
IOM
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Project:
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

DETAILS

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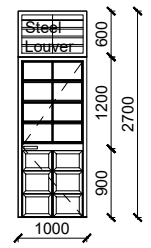
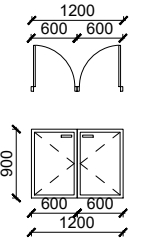
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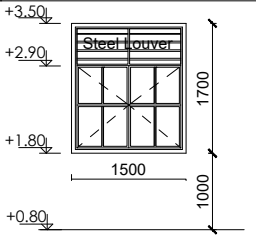
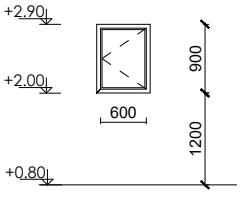
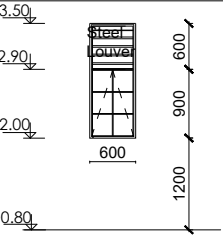
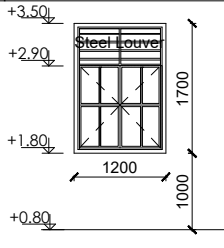
Drawing Title
DETAILS

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DOOR SCHEDULE

Door Name	D1	D2
Quantity	7	2
Frame material	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & 2 coats of enamel paint	Painted with 2 coats of antirust paint & 2 coats of enamel paint
Door leaf construction	40X40X4MM RHS surround with 40x30x2 T-sections with 5mm translucent glazing & bottom 3 panels with 1.5mm MS plate	90D opening made of 1.5mm flat metal pane
Burglar Proofing	RHS 25X25X2 mm vertical steel bars at equal intervals welded to interior of frames	N/A
Ironmongry	Stainless steel parliament hinges, door lock with pull - push bar handle	Stainless steel parliament hinges, door lock with pull - push bar handle
Louver	0.5mm thick steel louvers welded at top to the frame. Louvers to be covered with approved mosquito net.	N/A
		

WINDOW SCHEDULE

Window Name	W1	W2	W3	W4
Quantity	5	1	2	1
Frame material	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm	RHS steel frame 40mm x 40mm x 2mm
Frame finish	Painted with 2 coats of antirust paint & 2 coats of enamel paint	Painted with 2 coats of antirust paint & 2 coats of enamel paint	Painted with 2 coats of antirust paint & 2 coats of enamel paint	Painted with 2 coats of antirust paint & 2 coats of enamel paint
Glazing	5mm thick clear glass	5mm thick clear glass	5mm thick clear glass	5mm thick clear glass
Burglar proofing	RHS 25X25X2mm vertical steel bars at equal intervals welded to interior of frames	N/A	RHS 25X25X2 mm vertical steel bars at equal intervals welded to interior side of frames	RHS 25X25X2 mm vertical steel bars at equal intervals welded to interior of frames
Ironmongry	Stainless steel parliament hinges, window lock with bar handle	Stainless steel parliament hinges, window lock with latch	Stainless steel parliament hinges, window lock with latch	Stainless steel parliament hinges, window lock with bar handle
Louvers	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.	N/A	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.	0.5mm thick steel louvers welded to RHS frame. Louver to be covered with approved mosquito net.
				

GENERAL NOTES:



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3. Written dimensions overrides scaled dimensions.
4. Depth of pad foundation 1200mm.
5. Depth of strip foundation 750mm.
6. Any discrepancy or changes is to be reported to IOM site Engineer/Project manager before proceeding

Rev:	Date	Description:	Approved
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Program



Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



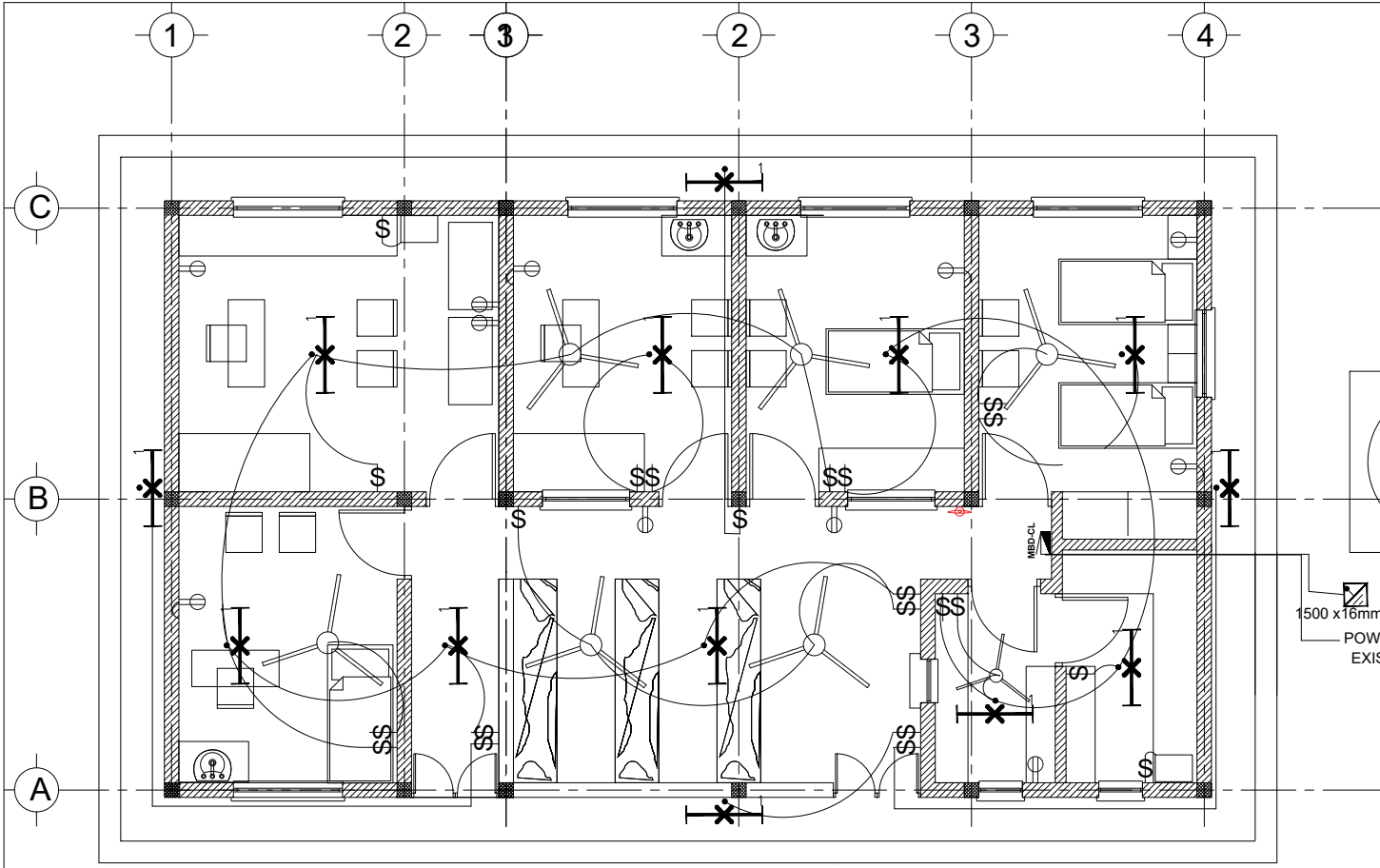
Project:

PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

DOOR AND WINDOWS SCHEDULE

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 11/16	Scale: AS SPECIFIED
Date: 28 May 2024	Rev: 2

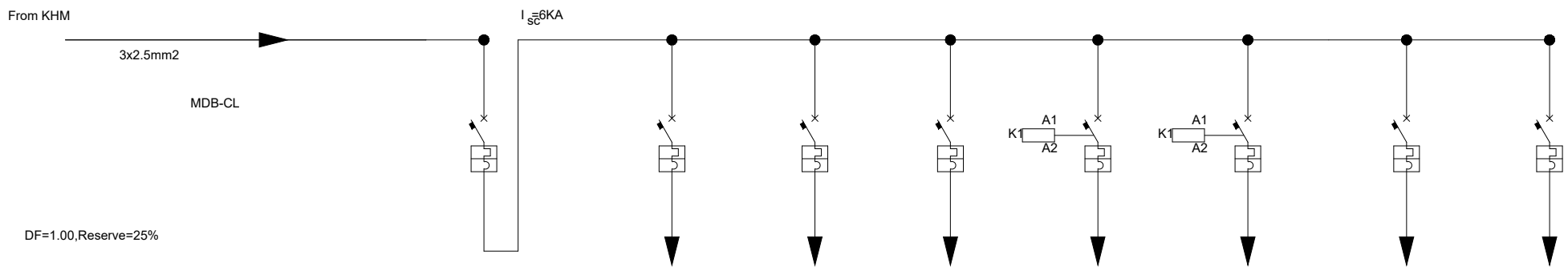


PRIMARY HEALTH CARE UNIT ELECTRICAL LAYOUT
Sc. 1:50

LIGHT FITTINGS SCHEDULE AND LEGEND

	Florescent fixture complete with lamp , electronic ballast 2x30 w,2350lm
	16A SINGLE SOCKET OUTLET WITH 3X2.5MM2 fixed above 40cm
	SINGLE SWITCH 220Vac 10A/1P mounted 1.4@AFFL
	DOUBLE SWITCH 220Vac 10A/1P mounted 1.4m@AFFL
	Distribution Board (Flush mounted)
	Earthing Rod in Manhole
	Manhole
	6kg portable for class 'ABC' fire extinguisher
	Ceiling fan
	Ceiling fan control
	LG1 Ton 5 star AI Dual Inverter Split AC

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-
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DF=1.00,Reserve=25%

CIRCUIT NUMBER		No	1	2	3	4	5	6	7
DESCRIPTION		Main Breaker	Lighting	Lighting	Lighting	Socket	AC Socket	Ceiling fan	Spare
POWER		KW	1.26	0.36	0.36	0.4	2.8		
CURRENT		A							
PHASE		R	R	R	R	R	R	R	R
VOLTAGE		V	220	220	220	220	220	220	220
CIRCUIT BREAKERS	POLES		1	1	1	1	1	1	1
	INTERRUPTING RATING	A	16	10	10	10	16	16	16
CABLE SIZE		mm ²	3x2.5	2x2.5	2x2.5	2x2.5	3x2.5	3x5	3x2.5

Rev:	Date	Description:	Approved
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Program

Client:
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Implemented By:

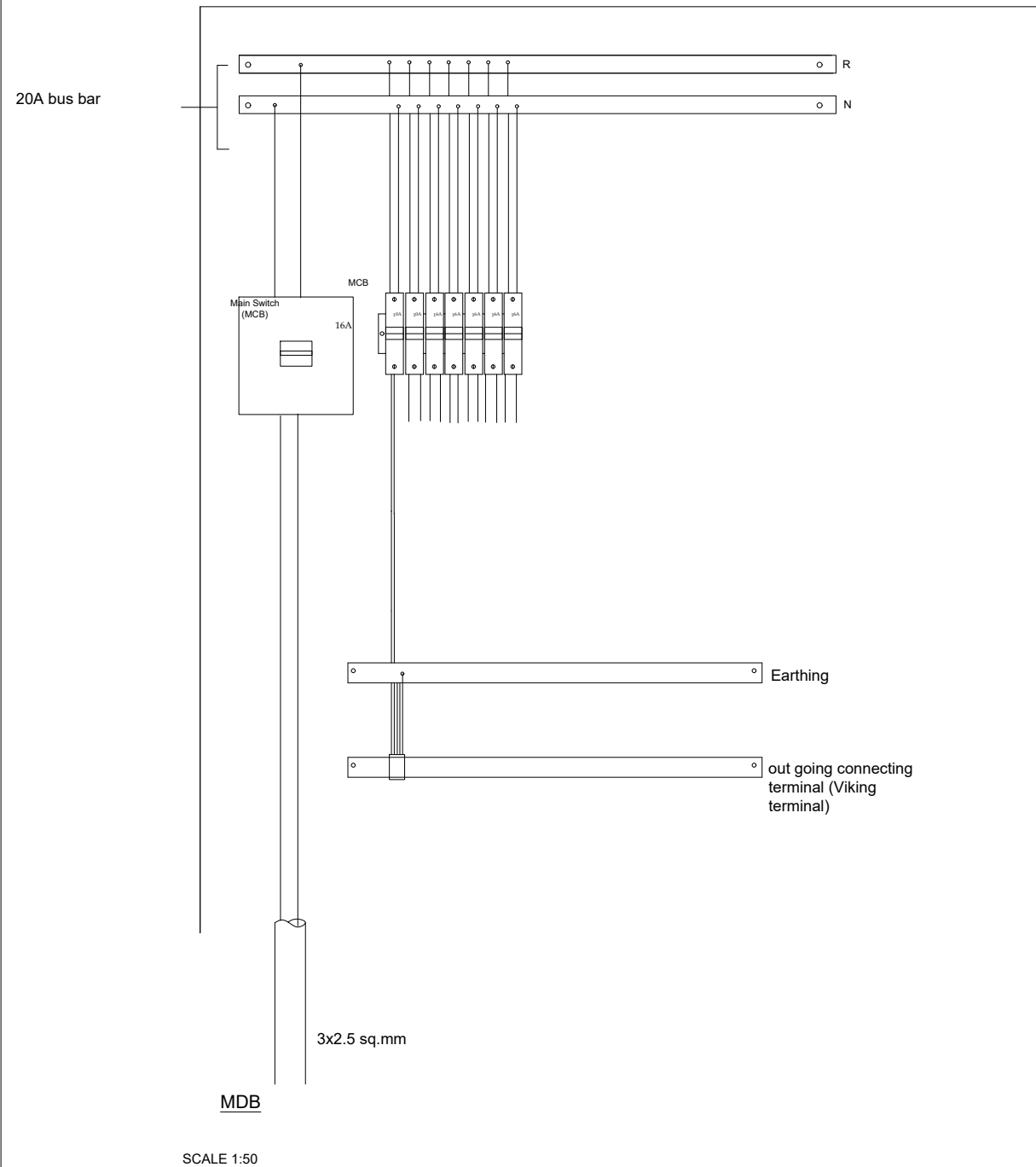
Project:
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title
ELECTRICAL LAYOUT

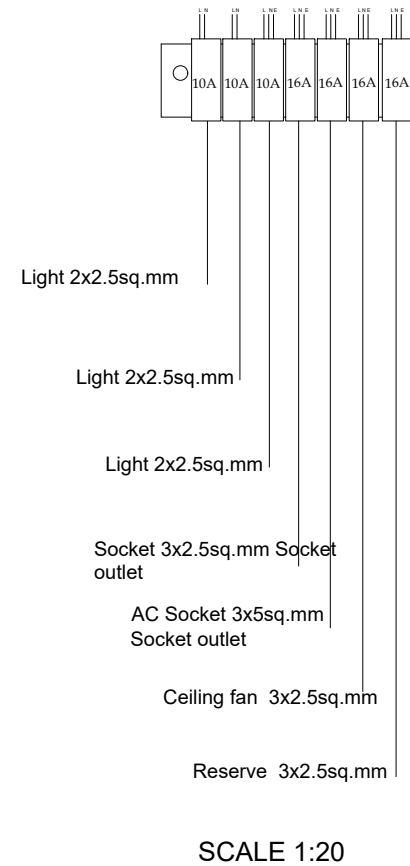
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 12/16	Scale: AS SPECIFIED
Date: 28 May 2024	Rev: 2

MDB-(PRIMARY HEALTH CARE UNIT)

INTERNAL WIRING DIAGRAM



INTERCONNECTION DIAGRAM



NOTE

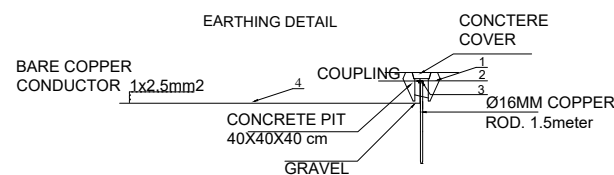
- 1 - ALL DIMENSIONS ARE IN METERS
- 2 - DIVERSITY FACTOR CALCULATED : = 0.9
- 3 - ALL ELEVATIONS ARE REFERRED TO ABOVE FINISHED FLOOR LEVEL (A.F.F.L)
- 4 - ALL JUNCTION BOXES ARE NOT SHOWN BUT THEY ARE INSTALLED EVERY TWO BENDS
- 5- ALL CONDUITS USED FOR LIGHTING & SOCKET OUTLETS ARE PVC Ø 16MM, AND DEPENDING ON THE NUMBER OF LINES INSIDE CONDUITS FROM JUNCTION BOX TO EVERY INDIVIDUAL POINT.
- 6- INSTALLATION ELEVATIONS ABOVE F.F. ARE @1.40M FOR SWITCH, @2.00M FOR KWHM, @0.50M FOR SOCKET OUTLETS.
- 7- CABLE TYPE FOR THE WIRING TO BE USED SHALL BE NYY 0.6/1KV
- 8- 10- ILLUMINATION LEVEL FOR EACH ROOM IS MAINTAINED AS PER ETHIOPIAN BUILDING STANDARD CODE EBCS-10.

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LEGEND TO EARTHING SYSTEM DETAIL

1	MANHOLE	400 x 400 x 400mm
2	DRIVIG STUD	
3	ROD TO TAPE CLAMP	
4	EARTH CONDUCTOR (bare)	1 x 2.5mmsq.

Program



Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title

ELECTRICAL

Designed By: H.A

Drawn by: H.A

Checked: F.E & G.O

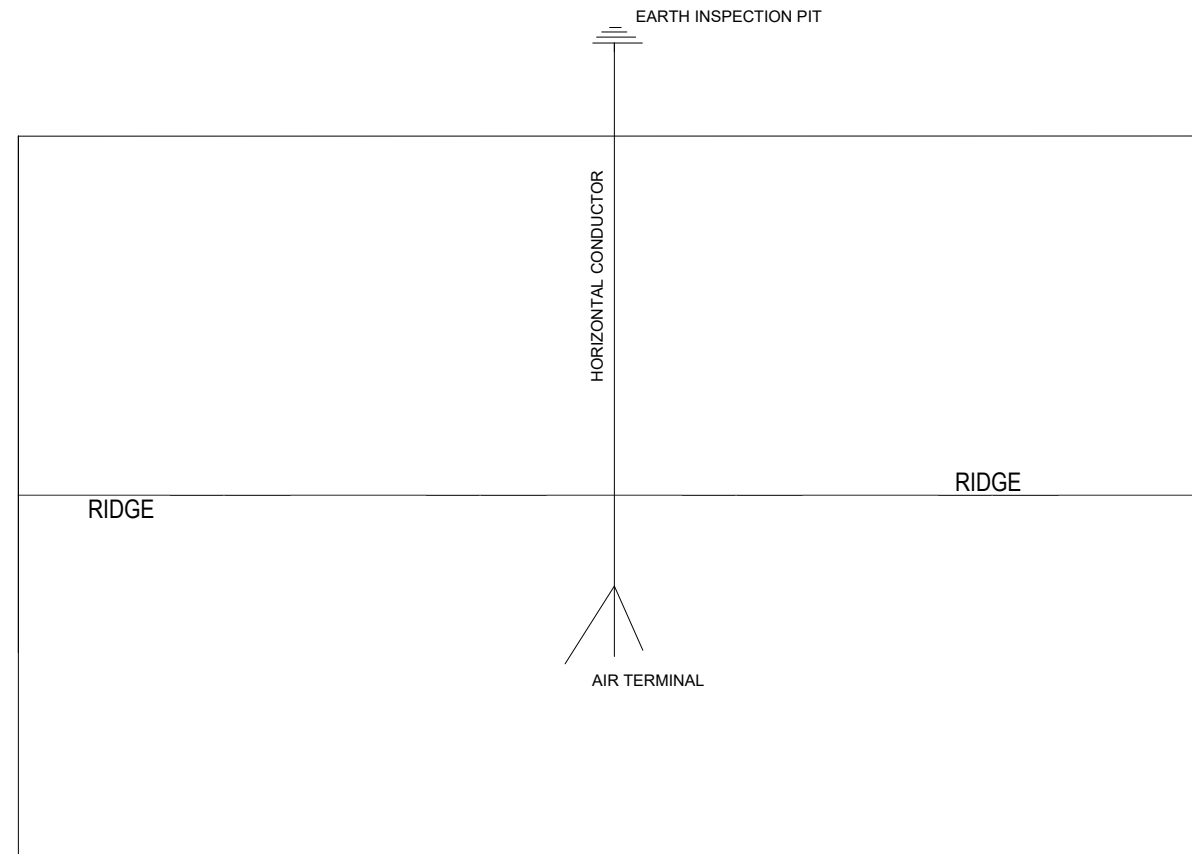
Approved: ----

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Date: 28 May 2024

Rev: 2



LIGHTNING PROTECTION PLAN

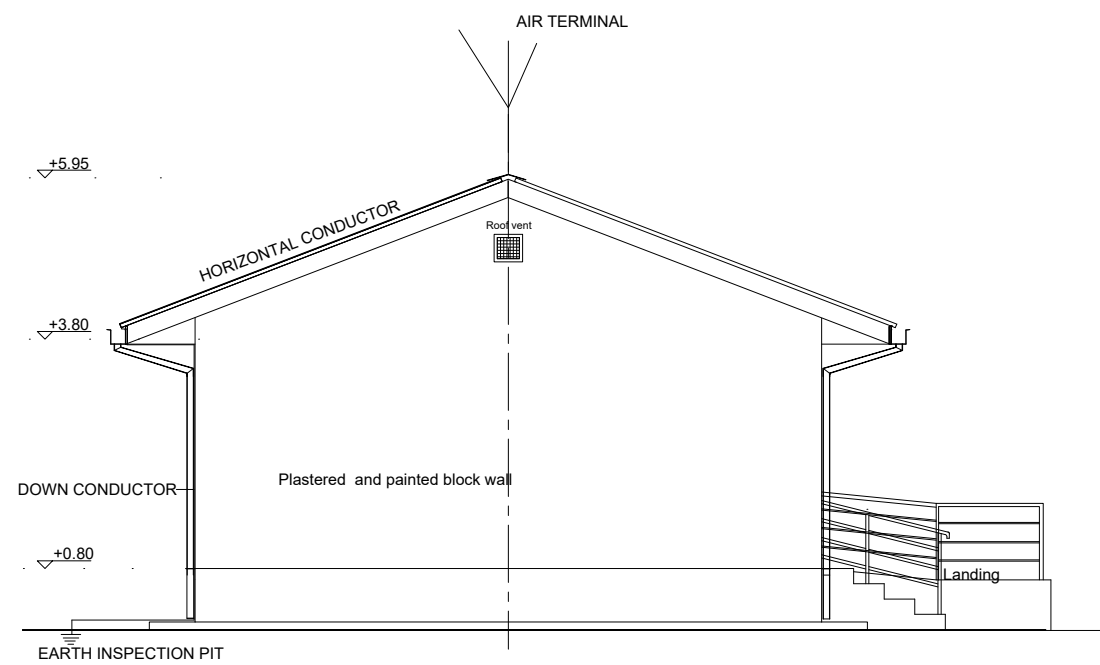
SCALE 1:50

GENERAL NOTES:

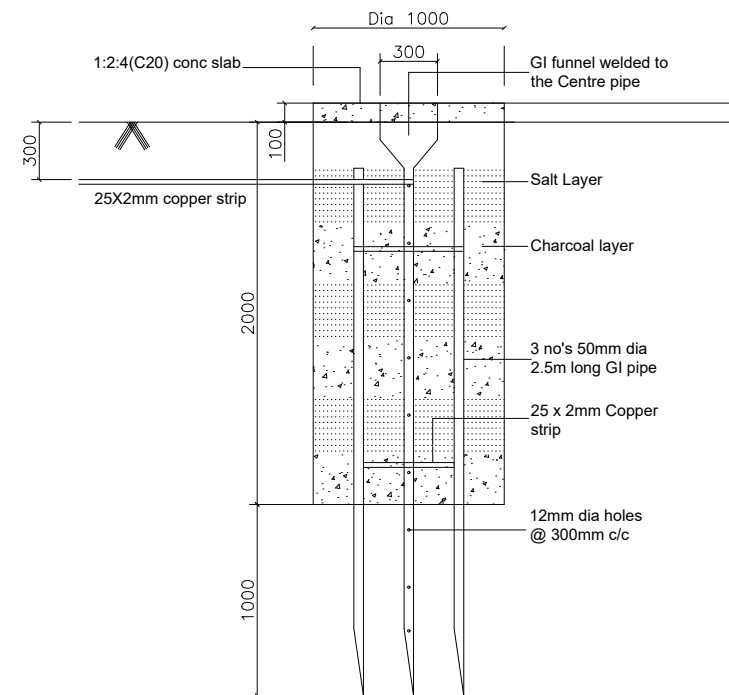


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03 LEFT SIDE ELEVATION
Sc. 1:50



EARTH PIT
Scale 1:20

Program

Enhancing Community Resilience and Local Governance Project

Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:

IOM
UN MIGRATION

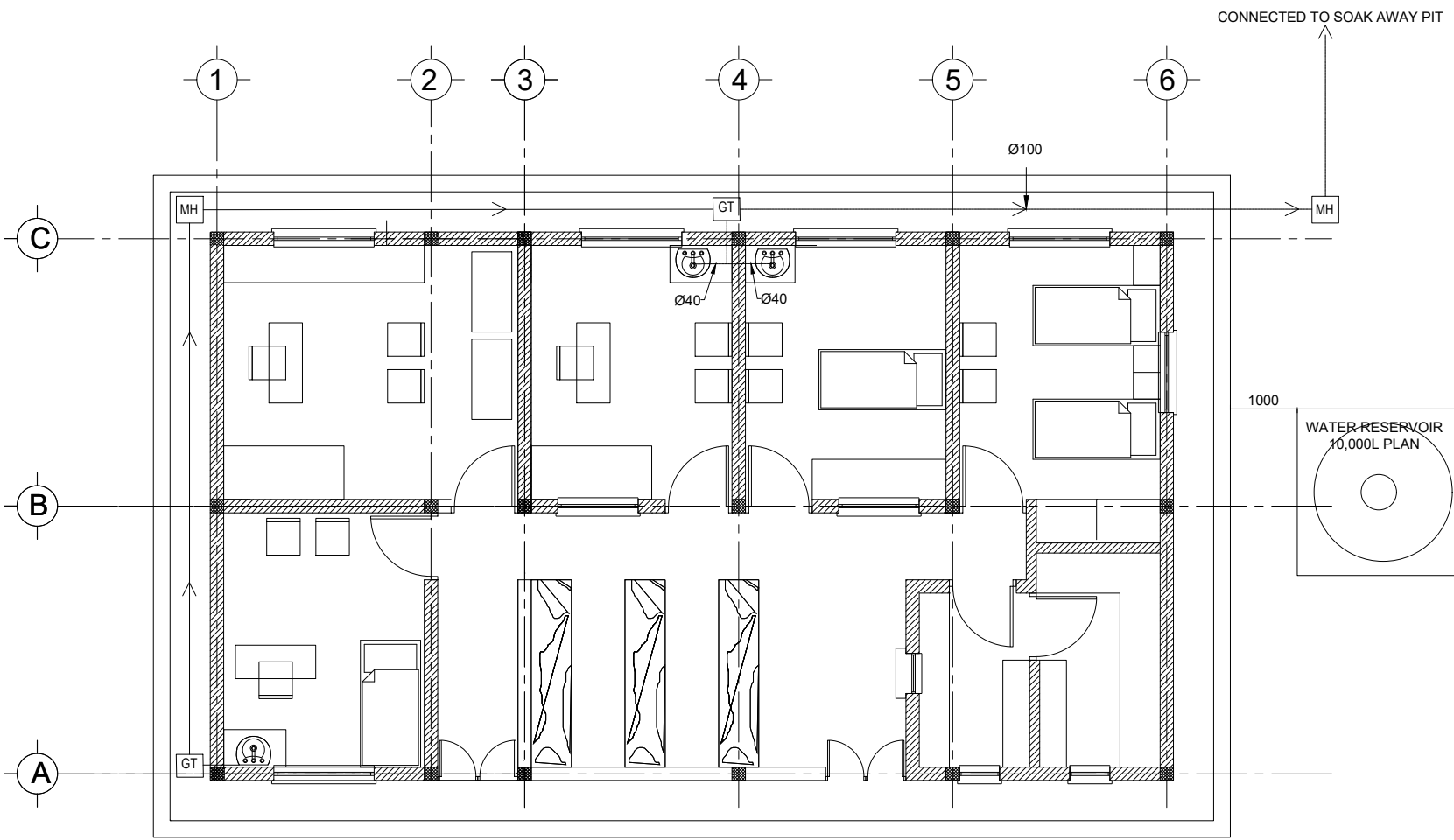
Project:

PROPOSED PRIMARY HEALTH CARE UNIT

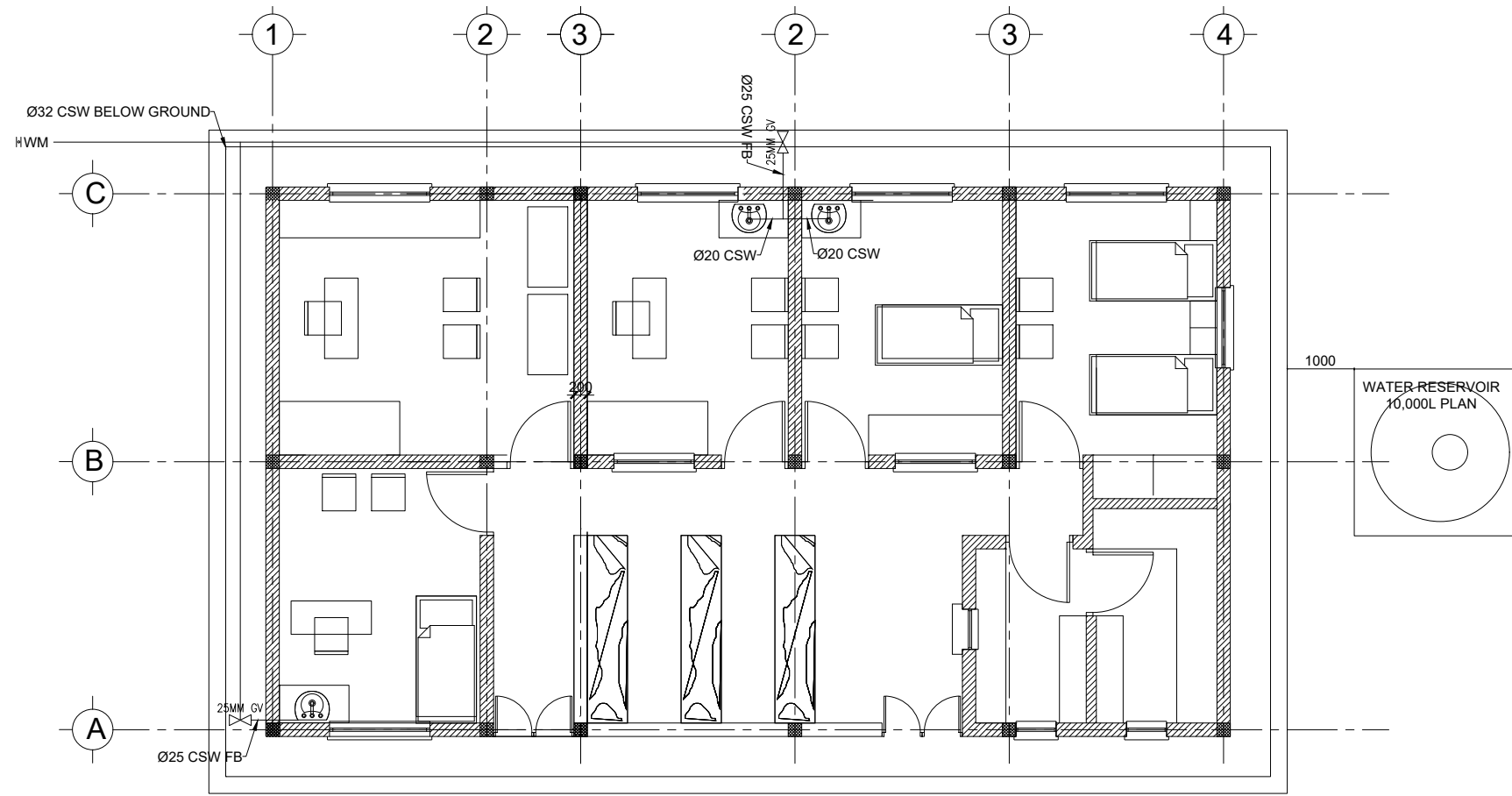
Drawing Title

LIGHTNING PROTECTION LAYOUT

Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 14/16	Scale: AS SPECIFIED
Date: 25 June 2024	Rev: 0



PRIMARY HEALTH CARE UNIT INTERNAL DRAINAGE LAYOUT
Sc. 1:50



PRIMARY HEALTH CARE UNIT INTERNAL PLUMBING LAYOUT
Sc. 1:50

LEGEND		
1	MH	MANHOLE
2	GT	GULLY TRAP
3	H/L	HIGH LEVEL
4	VC	VALVE CHAMBER
5	PPR	POLYPROPYLENE PIPE
6	CWS	COLD WATER SERVICE
7	WM	WATER METER
8		PUMP
9	OFF	OVER FLOW PIPE
10	F/A	FROM ABOVE
11	T/A	TO ABOVE
12	F/B	FROM BELOW
13	T/B	TO BELOW
14		BFV - BALL FLOAT VALVE
15		ISOLATED VALVE (GATE VALVE)
16		NON-RETURN VALVE

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Program

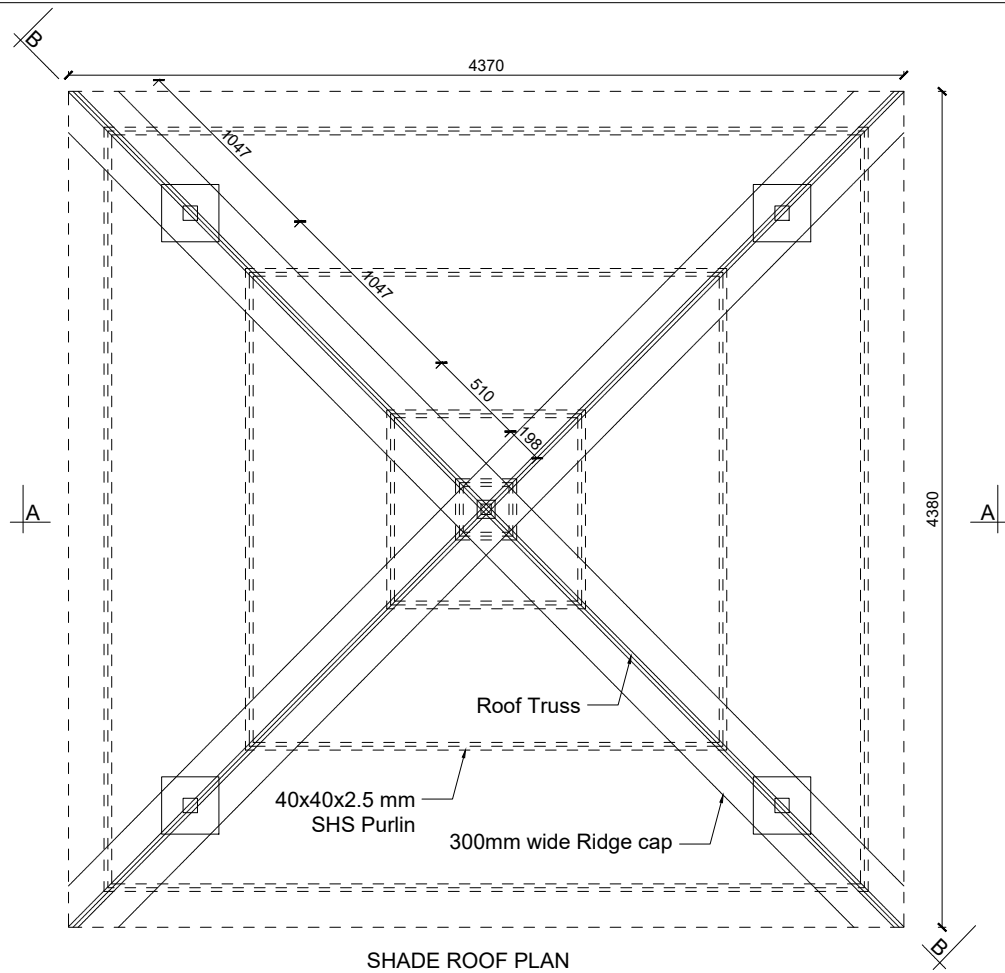


Client:
GOVERNMENT OF SOUTH SUDAN

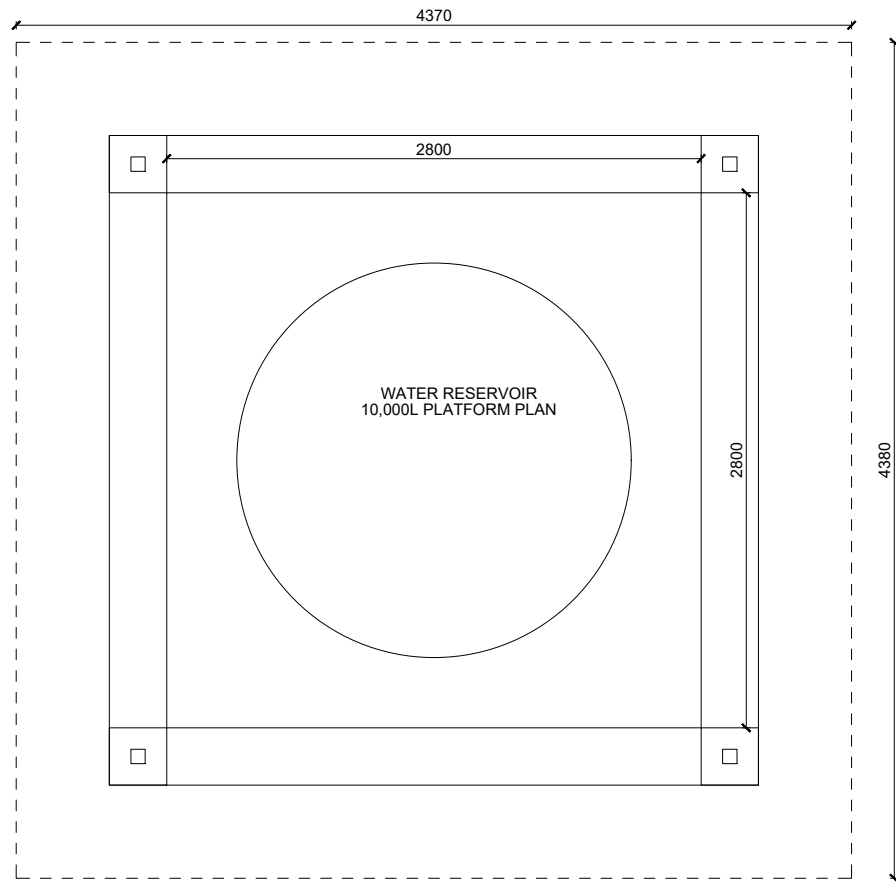
Implemented By:
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Project:
PROPOSED PRIMARY HEALTH CARE UNIT

Drawing Title	
DOOR AND WINDOWS SCHEDULE	
Designed By: H.A	Drawn by: H.A
Checked: F.E & G.O	Approved: ----
Sheet #: 15/16	Scale: AS SPECIFIED
Date: 25 June 2024	Rev: 0



SHADE ROOF PLAN
SCALE 1:20

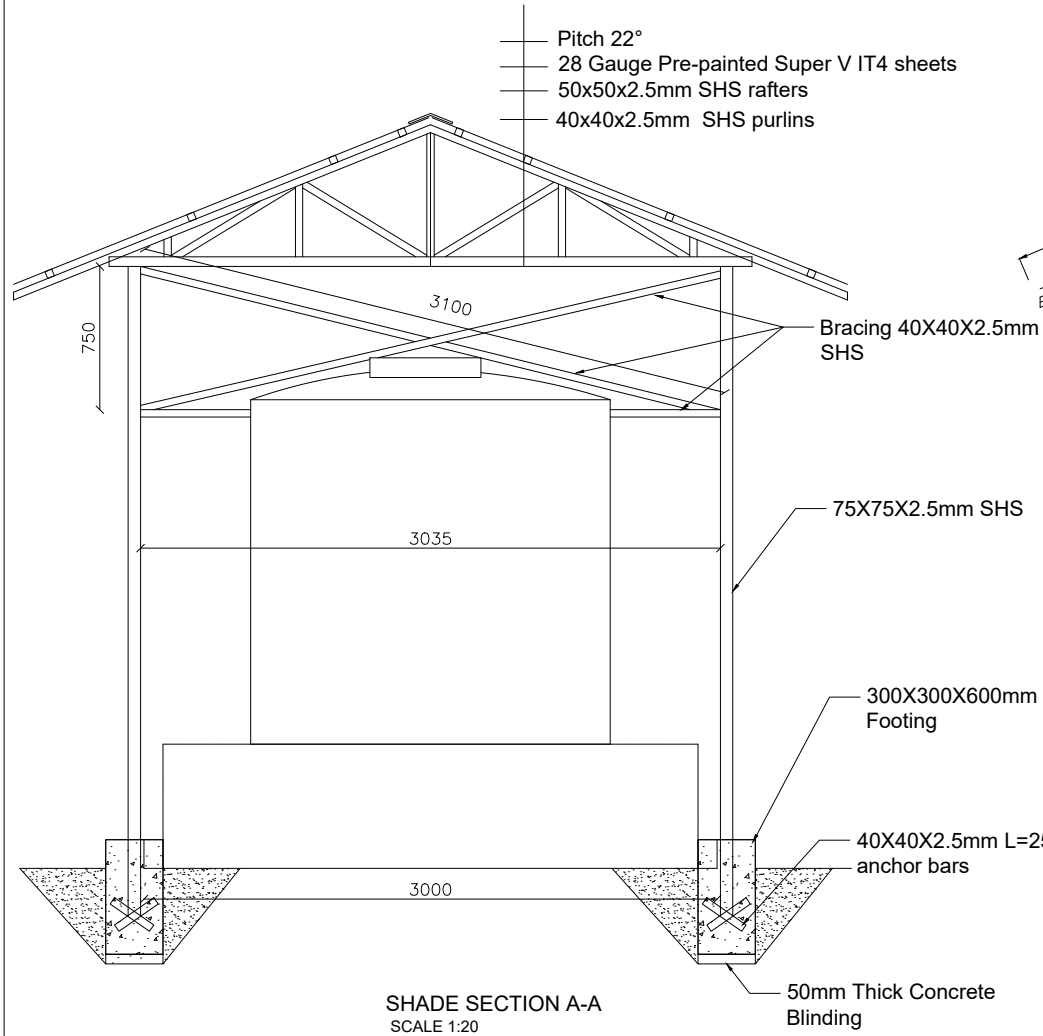


SHADE PLAN
SCALE 1:20

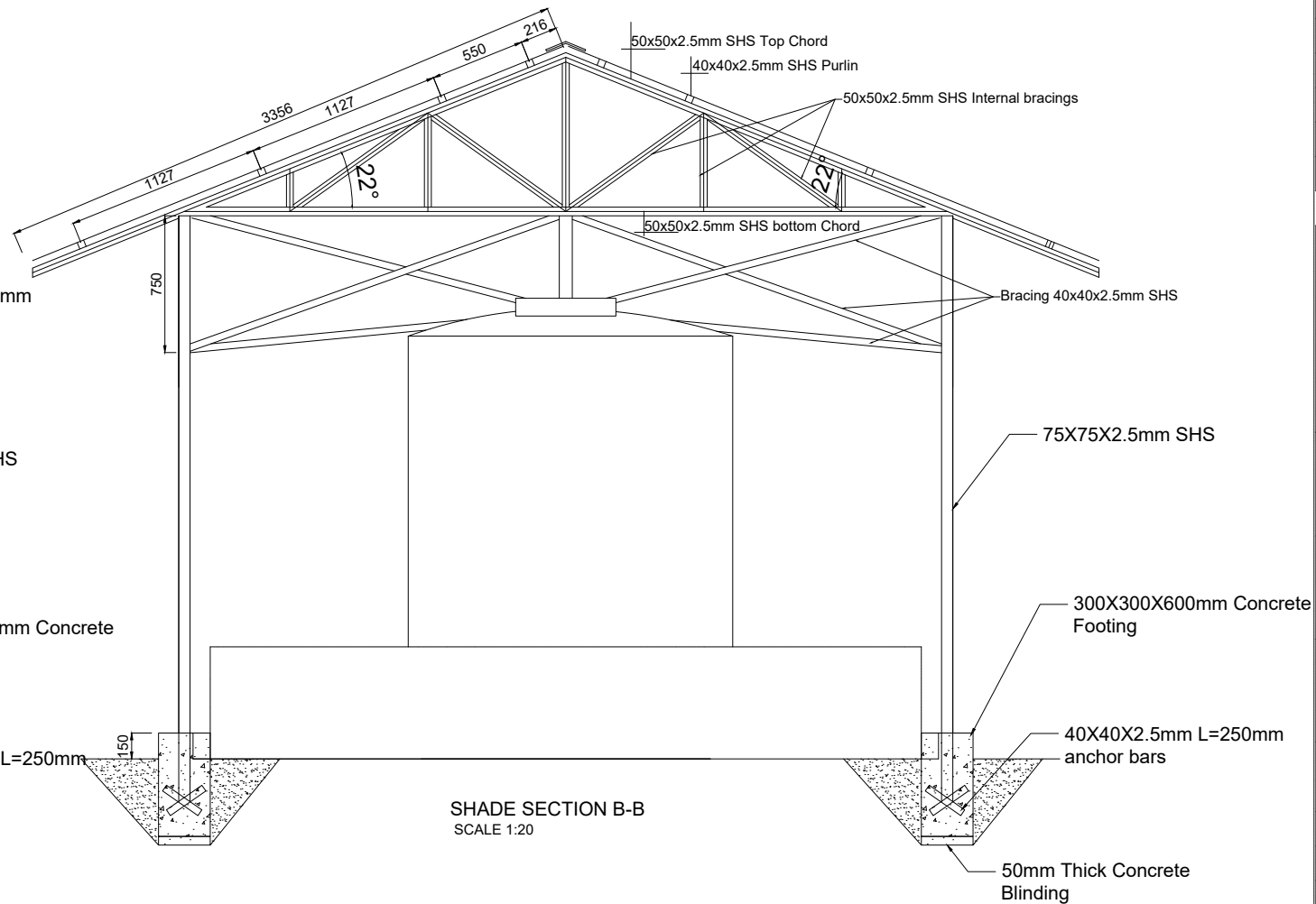
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SHADE SECTION A-A
SCALE 1:20



SHADE SECTION B-B
SCALE 1:20

Rev:	Date	Description:	Approved
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Program



Client:

GOVERNMENT OF SOUTH SUDAN

Implemented By:



Project:

PROPOSED PUBLIC HEALTH CARE UNIT

Drawing Title

WATER TANK SHED

Designed By: H.A

Drawn by: H.A

Checked: F.E & G.O

Approved: ----

Sheet #: 16/16

Scale: AS SPECIFIED

Date: 28 May 2024

Rev: 2