



**Block A
New Extension
and
Waiting Area**



**Block B
New Waiting Area**



New Toilets

**New Toilets
Block C
New Waiting Area**



AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

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DOUBLE DTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

ARCHITECTURAL ENGINEER:

ENG. Designer

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Cover Page

DATE: January 2022

INDEX:

A.0

SCALE:



GENERALS

DRAWING NO	DRAWING TITLE
G_01	SITE PLAN EXISTING SITUATION & DESIGN PROPOSAL
G_02	GROUND FLOOR PLAN EXISTING DESIGN
G_03	GROUND FLOOR PLAN DESIGN PROPOSAL

GENERAL PLUMPING AND ELECTRICAL

DRAWING NO	DRAWING TITLE
GP_01	PLUMPING WATER SUPPLY DESIGN
GP_02	PLUMPING -WATER TANK SYSTEM
GP_03	PLUMPING - ABSORBING WELL DETAILS
GP_04	WATER TOWER DETAILS
GP_05	WATER TOWER FOUNDATION DETAILS
GPE_06	GENERAL PLAN ELECTRICAL LAYOUT

BLOCK E

DRAWING NO	DRAWING TITLE
E_01	ELECTRICAL ROOM
E_02	ELECTRICAL ROOM ELECTRICAL LAYOUT

BLOCK A

DRAWING NO	DRAWING TITLE
A_01	GROUND FLOOR PLAN
A_02	ROOF PLAN
A_03	ROOF STRUCTURE PLAN
A_04	ROOF SECTION
A_05	LINTEL BEAM & CALLOUT
A_06	ELEVATION
A_07	ELEVATION
A_08	ELEVATION
A_09	ELEVATION
A_10	SECTIONS
A_11	RAMP SECTION AND 3D
A_12	GROUND FLOOR PLAN DOORS & WINDOWS
A_13	DOOR & WINDOWS DETAILS
A_14	GROUND FLOOR PLAN FURNITURE
A_15	BLOCK A ELECTRICAL LAYOUT

BLOCK B

DRAWING NO	DRAWING TITLE
B_01	GROUND FLOOR PLAN
B_02	ROOF PLAN
B_03	ROOF STRUCTURE PLAN
B_04	ROOF SECTION
B_05	LINTEL BEAM & CALLOUT
B_06	ELEVATION
B_07	ELEVATION
B_08	ELEVATION
B_09	ELEVATION
B_10	SECTIONS
B_11	RAMP SECTION AND 3D
B_12	GROUND FLOOR PLAN DOORS & WINDOWS
B_13	DOOR & WINDOWS DETAILS
B_14	GROUND FLOOR PLAN FURNITURE
B_15	BLOCK B ELECTRICAL LAYOUT

BLOCK C

DRAWING NO	DRAWING TITLE
C_01	GROUND FLOOR PLAN
C_02	ROOF PLAN
C_03	ROOF STRUCTURE PLAN
C_04	ROOF SECTION
C_05	LINTEL BEAM & CALLOUT
C_06	ELEVATION
C_07	ELEVATION
C_08	ELEVATION
C_09	ELEVATION
C_10	SECTIONS
C_11	RAMP SECTION AND 3D
C_12	GROUND FLOOR PLAN DOORS & WINDOWS
C_13	DOOR & WINDOWS DETAILS
C_14	GROUND FLOOR PLAN FURNITURE
C_15	BLOCK C ELECTRICAL LAYOUT

BLOCK T1

DRAWING NO	DRAWING TITLE
T1_01	LATRINE UNDERGROUND - EXCAVATION PLAN
T1_02	LATRINE GROUND FLOOR PLAN
T1_03	LATRINE ROOF PLAN
T1_04	LATRINE ELEVATION
T1_05	DETAILS
T1_06	WELL DETAILS
T1_07	W.C ROOF REINFORCEMENT
T1_08	W.C SOLAR PANEL
T1_09	RAINWATER SYSTEM
T1_10	SUN PATH 3D VIEW
T1_11	BLOCK T1 ELECTRICAL LAYOUT

BLOCK T2

DRAWING NO	DRAWING TITLE
T2_01	LATRINE UNDERGROUND - EXCAVATION PLAN
T2_02	LATRINE GROUND FLOOR PLAN
T2_03	LATRINE ROOF PLAN
T2_04	LATRINE ELEVATION
T2_05	DETAILS
T2_06	WELL DETAILS
T2_07	W.C ROOF REINFORCEMENT
T2_08	W.C SOLAR PANEL
T2_09	RAINWATER SYSTEM
T2_10	SUN PATH 3D VIEW
T2_11	BLOCK T2 ELECTRICAL LAYOUT

MEDICAL WASTE DISPOSAL

DRAWING NO	DRAWING TITLE
MWD_01	MEDICAL WASTE DISPOSAL PLAN, SECTION & 3D

FENCE

DRAWING NO	DRAWING TITLE
F_01	FENCE DETAILS



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PROGRAM TITLE:
T05-EUF-HOA-SD-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)

LOCATION:
SOUTH DARFUR-NORTHERN NYALA

ARCHITECTURAL ENGINEER:
ENG.RABAB AHMAD ELSEED

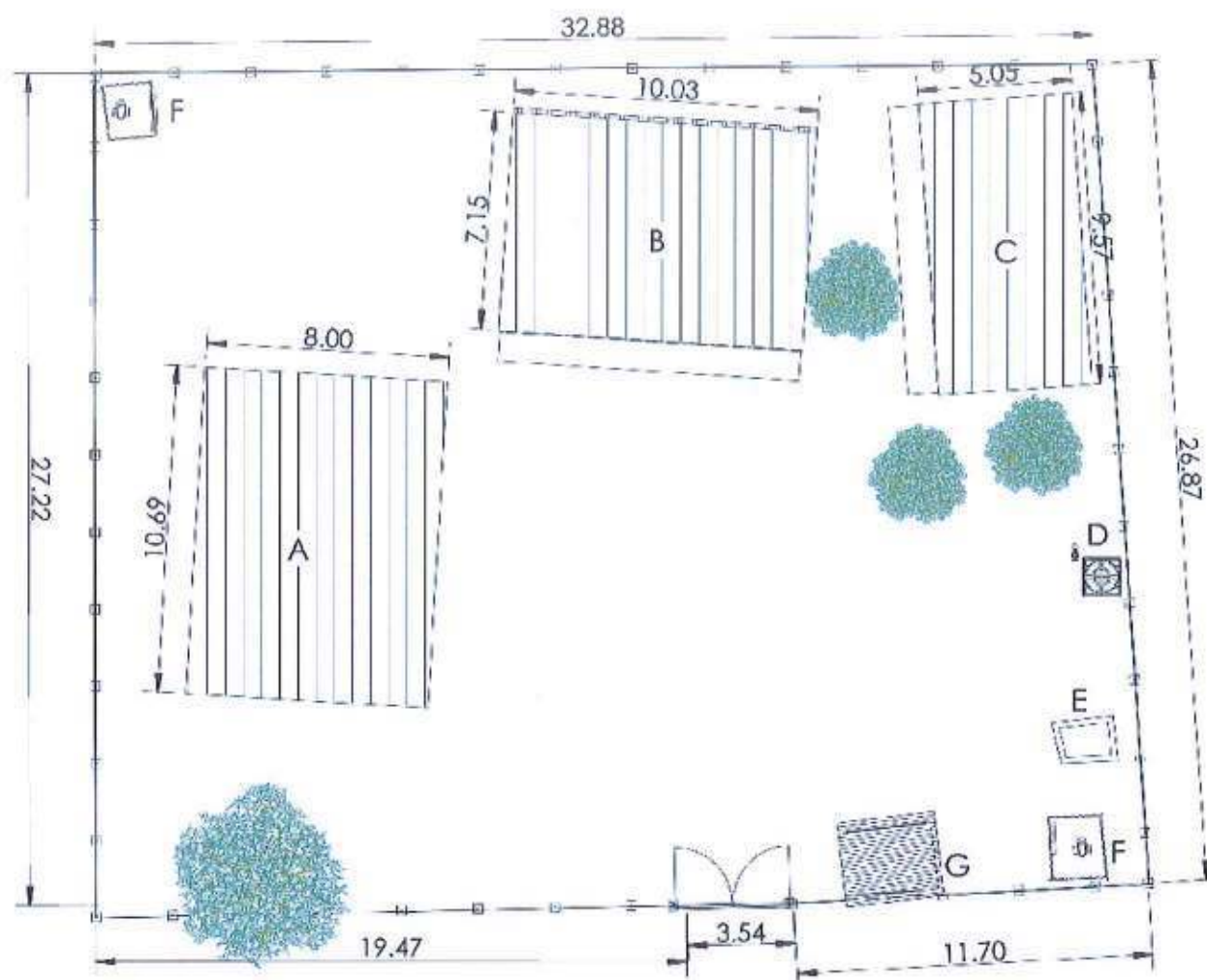
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DATE: JANUARY 2022

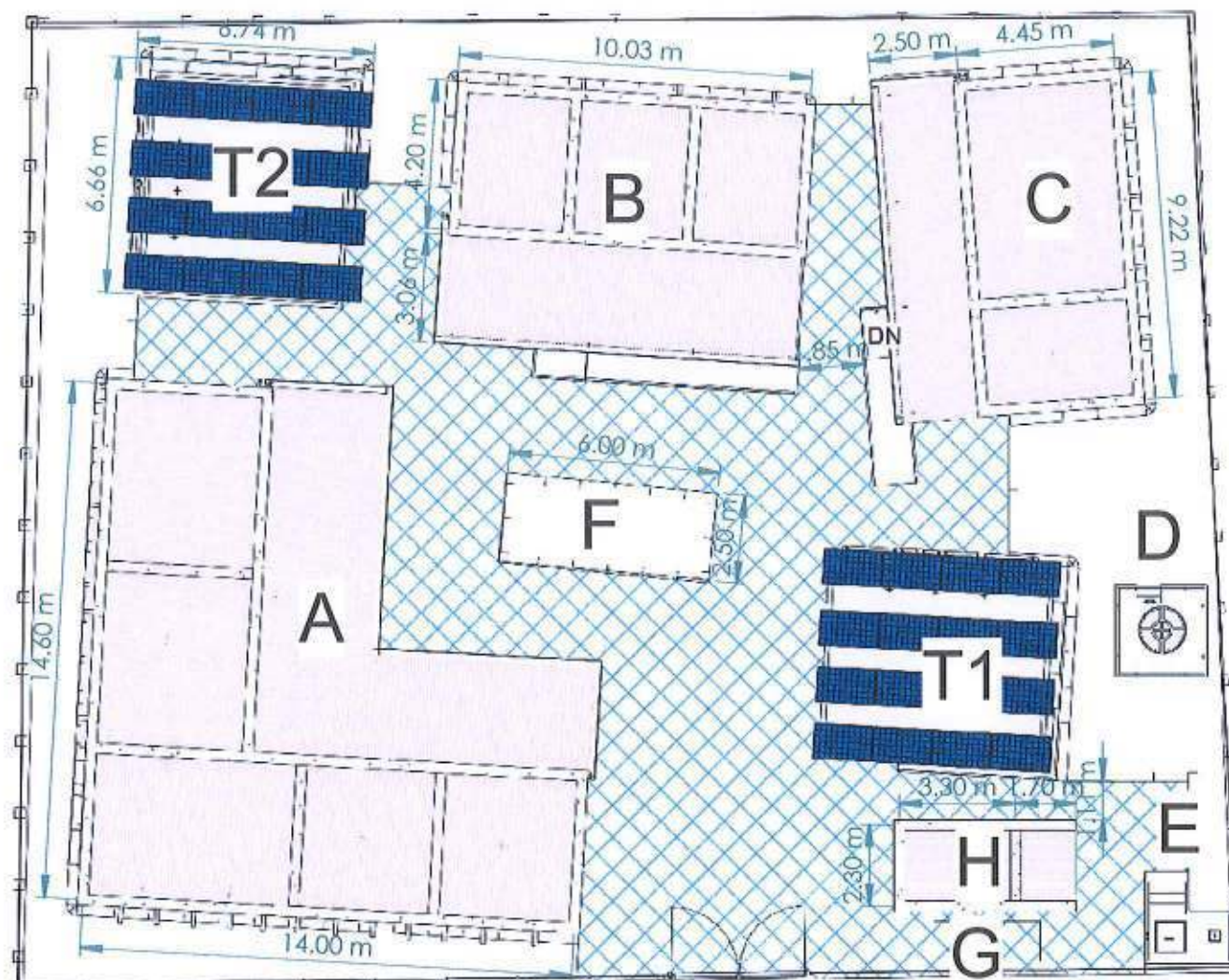
INDEX: 00





LEGEND :Site Plan - Existing

A	BLOCK A
B	BLOCK B
C	BLOCK C
D	WATER TANK
E	MEDECAL WASTE DISPOSAL
F	LATRINE
G	GENERATOR



LEGEND :Site Plan - Design

A	BLOCK A
B	BLOCK B
C	BLOCK C
D	WATER TANK
E	MEDECAL WASTE DISPOSAL
F	OTHER
G	GENERATOR
H	ELECTRICAL ROOM
T1	MALE LATRINE
T2	FEMALE LATRINE



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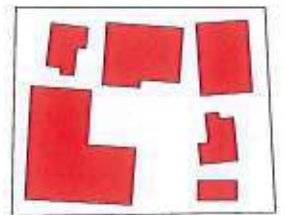
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PROGRAM TITLE:
T05-EUTF-HOA-SD-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)

LOCATION:
SOUTH DARFUR Northern Nyala

ARCHITECTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
SITE PLAN EXISTING SITUATION &
DESIGN PROPOSAL

DATE: January 2022

INDEX: G_01 SCALE: 1:200





Room Schedule	
Number	Name
1	Doctor Room
2	Medical Assistance
3	Statistic Room
4	Waiting Area
5	Pharmacy
6	Female Ward
7	Waiting Area
8	Lab.
9	Male Ward
10	Latrine
11	Latrine
12	GENERATOUR ROOM
13	MEDICAL WASTE DISPOSAL
14	WATER TANK

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

ARCHITECTURAL ENGINEER:

ENG. Designer

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Ground Floor Plan Existing Design

DATE: January 2022

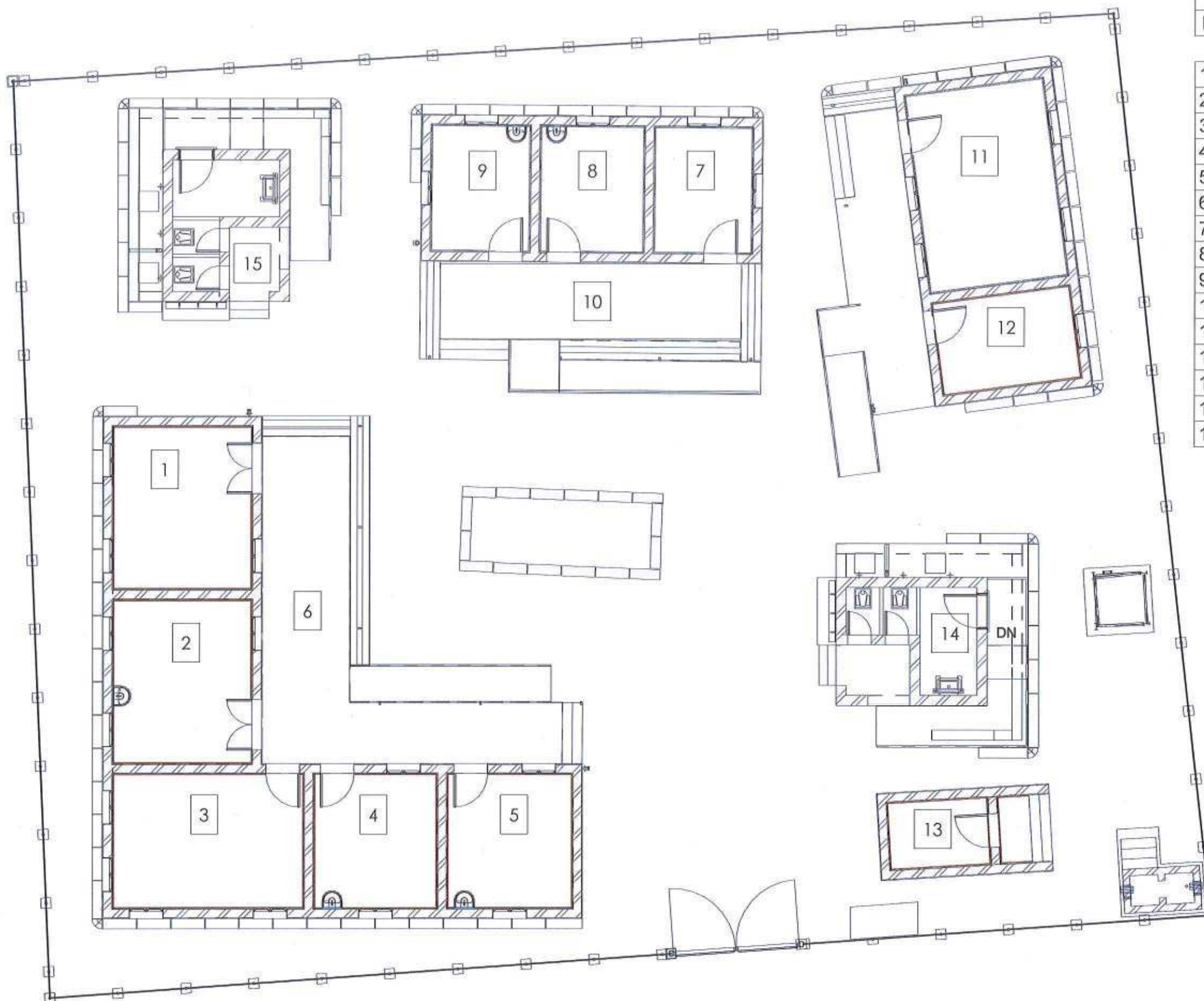
INDEX:

G_02

SCALE:

1:125





Room Schedule	
Number	Name
1	Pharmacy
2	EPI/NU
3	FEMALE WARD
4	DELIVERY ROOM
5	MIDWIFERY
6	WAITING AREA
7	STATISTIC ROOM
8	MEDICAL ASSISTANCE
9	DOCTOR ROOM
10	WAITING AREA
11	LAB
12	MALE WARD
13	ELECTRICITY ROOM
14	MALE LATRINE
15	FEMALE LATRINE



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T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

ARCHITECTURAL ENGINEER:

ENG. BRAHIM MOHAMMED BRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Ground Floor Plan Design Proposal

DATE: January 2022

INDEX:

G_03

SCALE:

1:125





PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
 Northern Nyala

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

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DRAWING TITLE:

Plumbing - Water Supply Design

DATE: January 2022

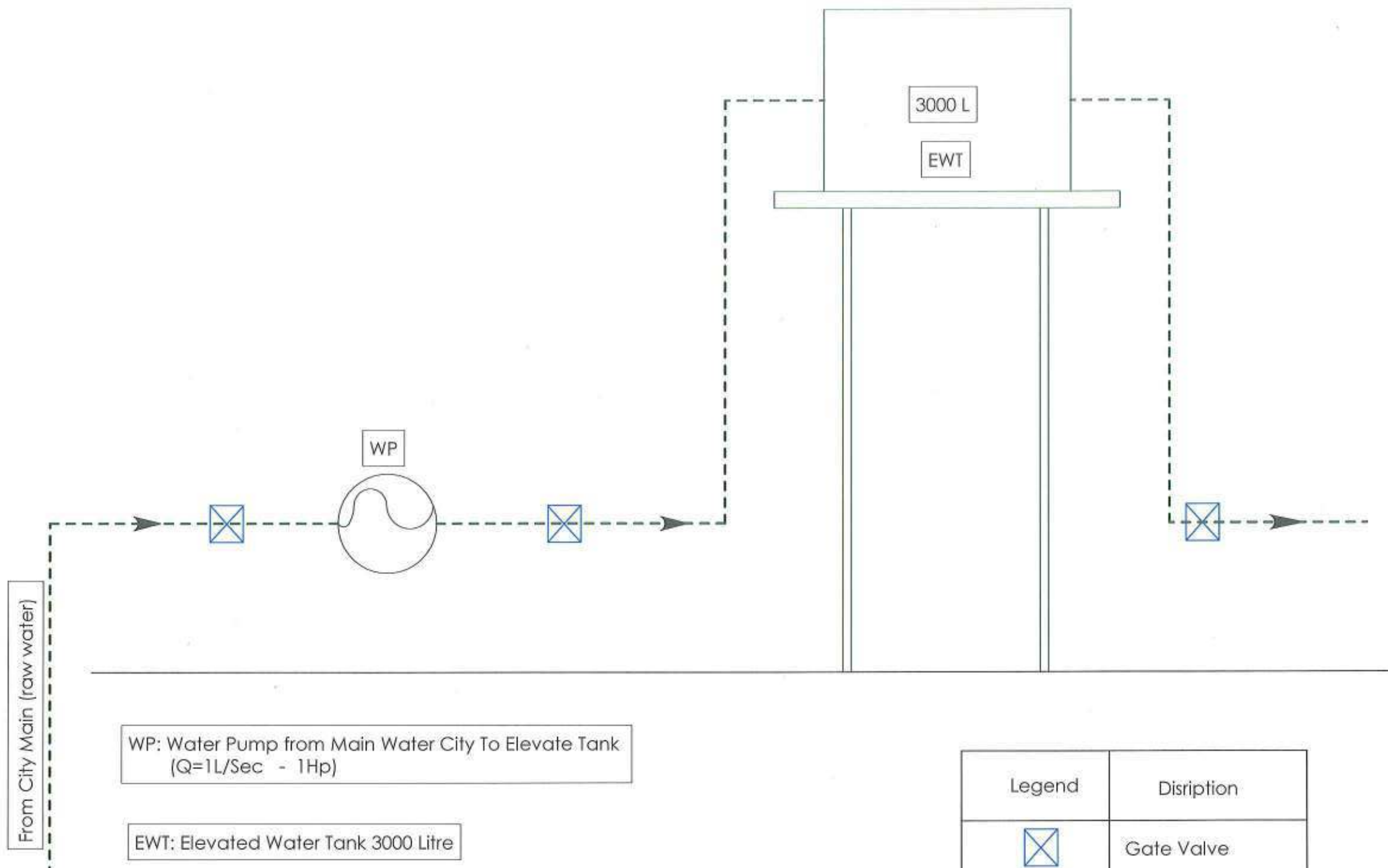
INDEX:

GP_01

SCALE:

As indicated





WP: Water Pump from Main Water City To Elevate Tank
(Q=1L/Sec - 1Hp)

EWT: Elevated Water Tank 3000 Litre

Legend	Disription
	Gate Valve
	Water Direction
	P.P.R 25mm
	P.P.R 13mm
	PVC 2inch Pipe
	Gully Trap



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PROGRAM TITLE :

T05-EUTF-HOA-SD-73-01

PROJECT TITLE :

HEALTH CENTER OF OJASH (NY06)

LOCATION :

SOUTH DARFUR
Northern Nyala

ARCHITECT :

ENG.Rabab Azhari, Engle Eiseed

STRUCTURAL ENGINEER :

ENG.IBRAHIM MOHAMMED IBRAHIM

CHECKED BY :

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :

Plumbing - WaterTank System

DATE : January 2022

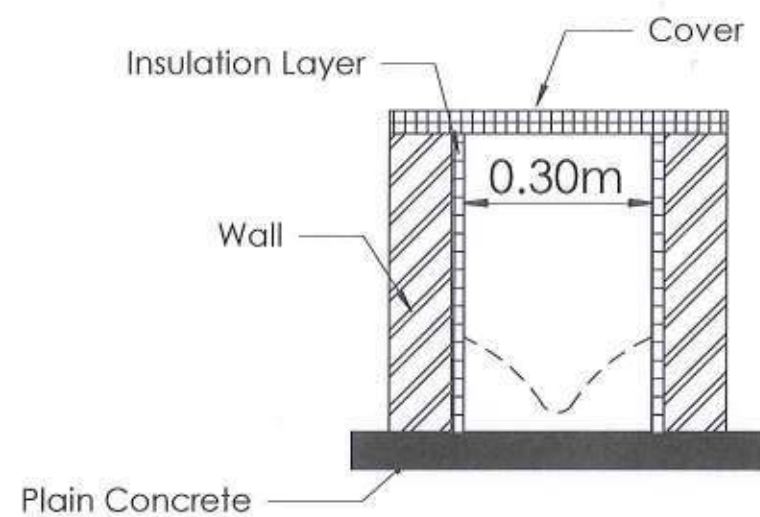
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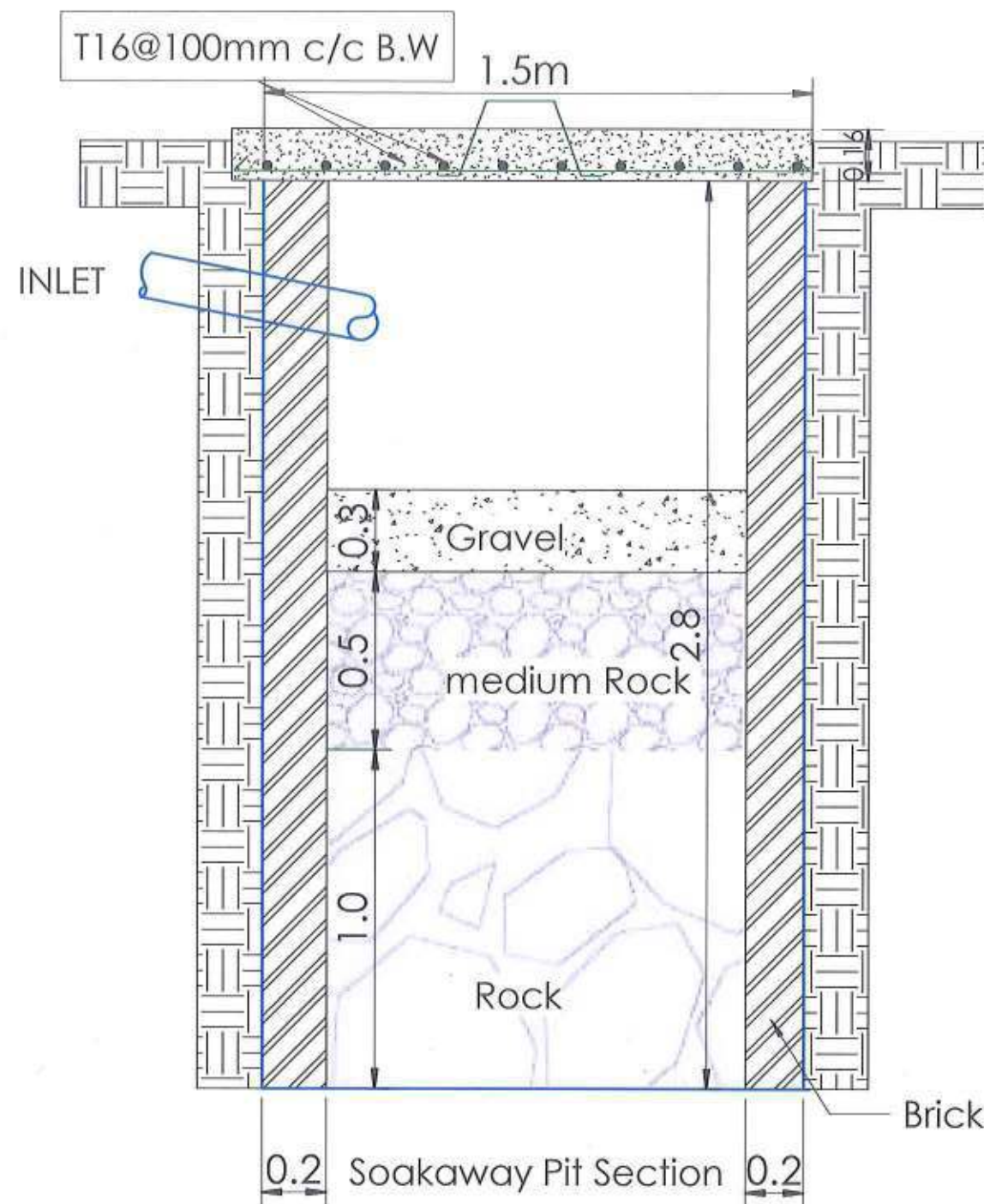
As indicated





G.T - Section

Scale 1:20



Soakaway Pit Section

Scale 1:55



DOUBLE QTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OLASH (NY08)

LOCATION:

SOUTH DARFUR
 Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Plumping - Absorbing Well details

DATE: January 2022

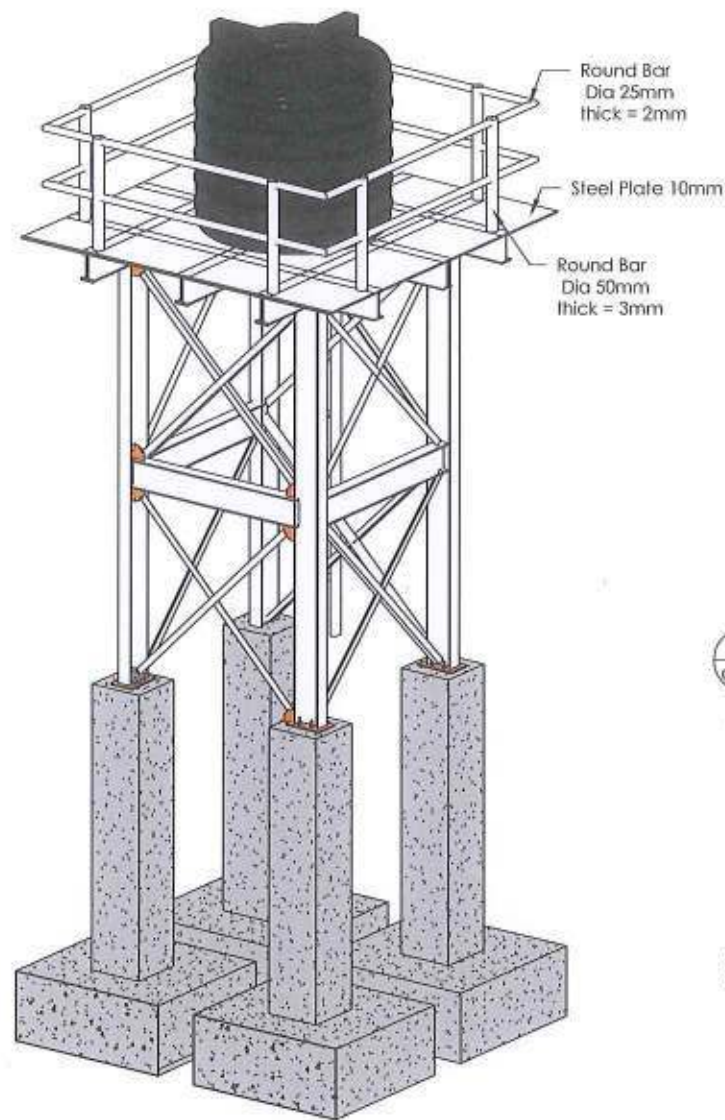
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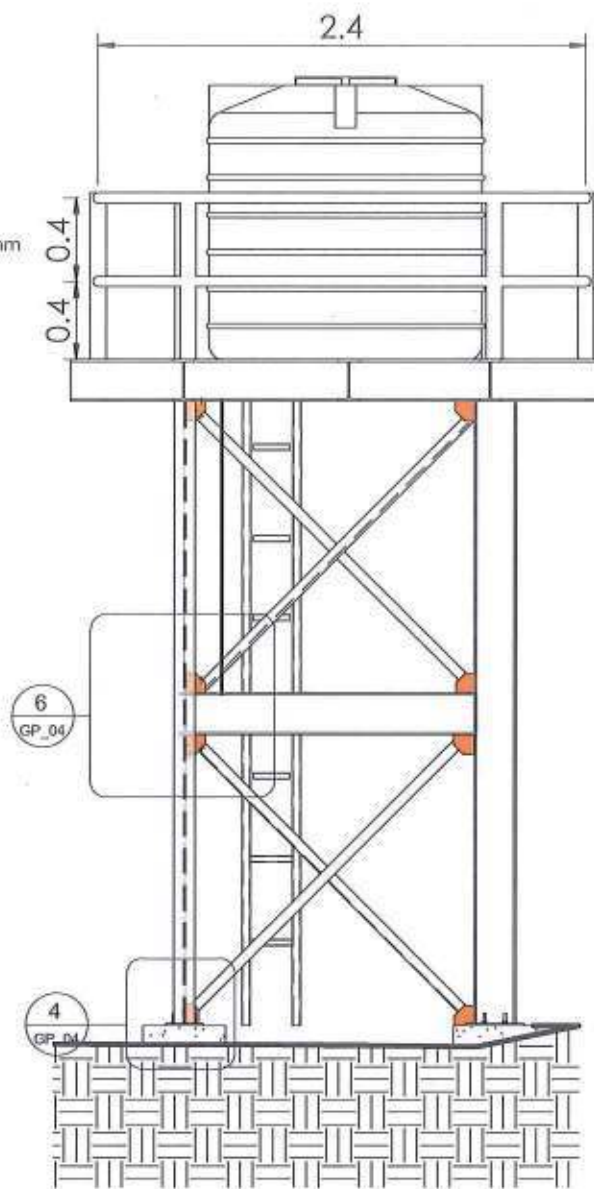
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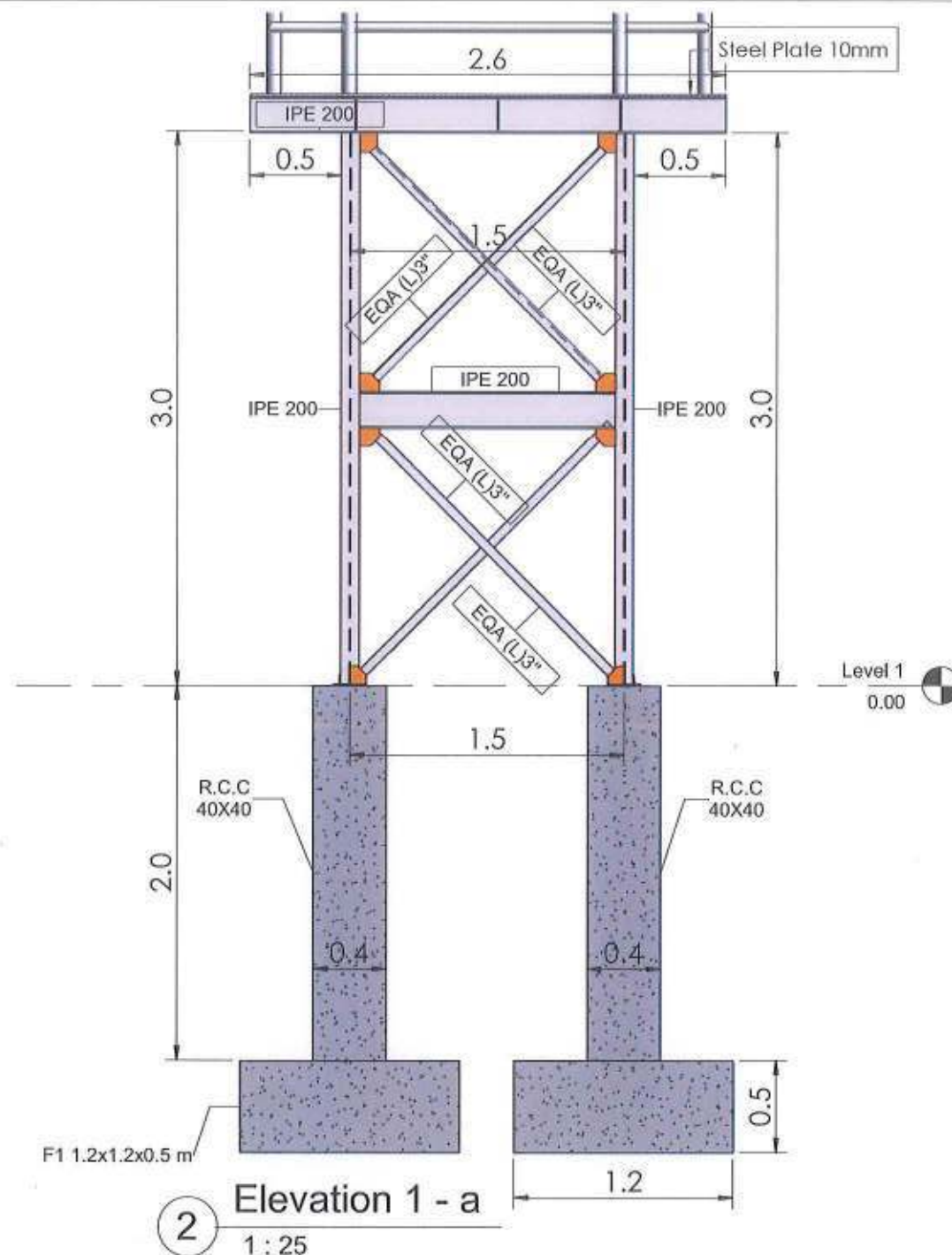




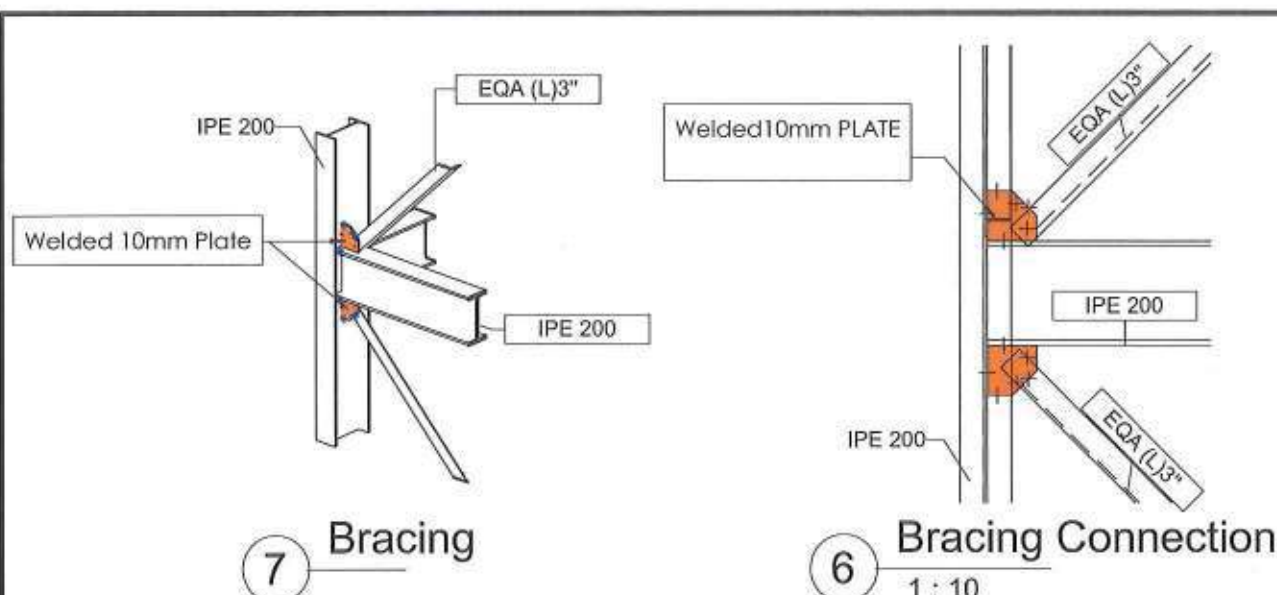
8 Water Tank - 3D



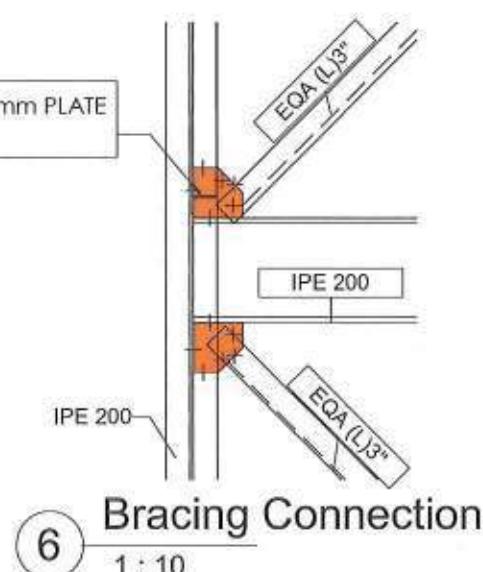
3 Elevation 1 - b
1 : 25



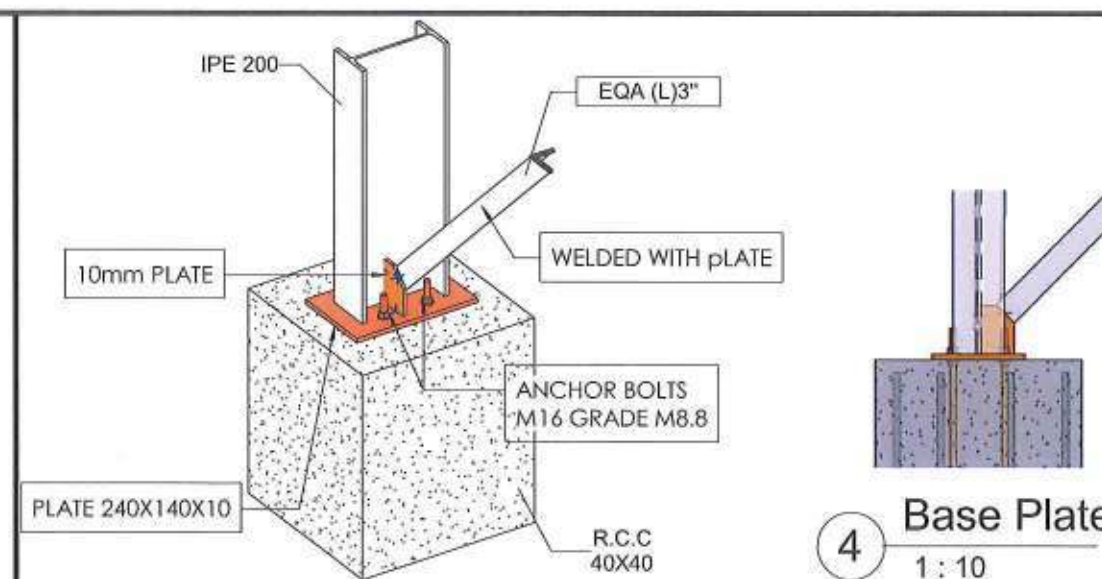
2 Elevation 1 - a
1 : 25




7 Bracing



6 Bracing Connection
1 : 10




4 Base Plate
1 : 10



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PER LA COOPERAZIONE
ALLO SVILUPPO

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DOOBLE OTC ENGINEERING

PROGRAM TITLE :
T05-EUTF-HOA-SD-73-01

PROJECT TITLE : ولاية جنوب
HEALTH CENTER OF OTASH (IN 06)
وزارة الصحة

LOCATION :
SOUTH DARRUR
Northern Nyala


ARCHITECT : عبد المبرك
ENG. Rabab Azhar Fadia Elsed

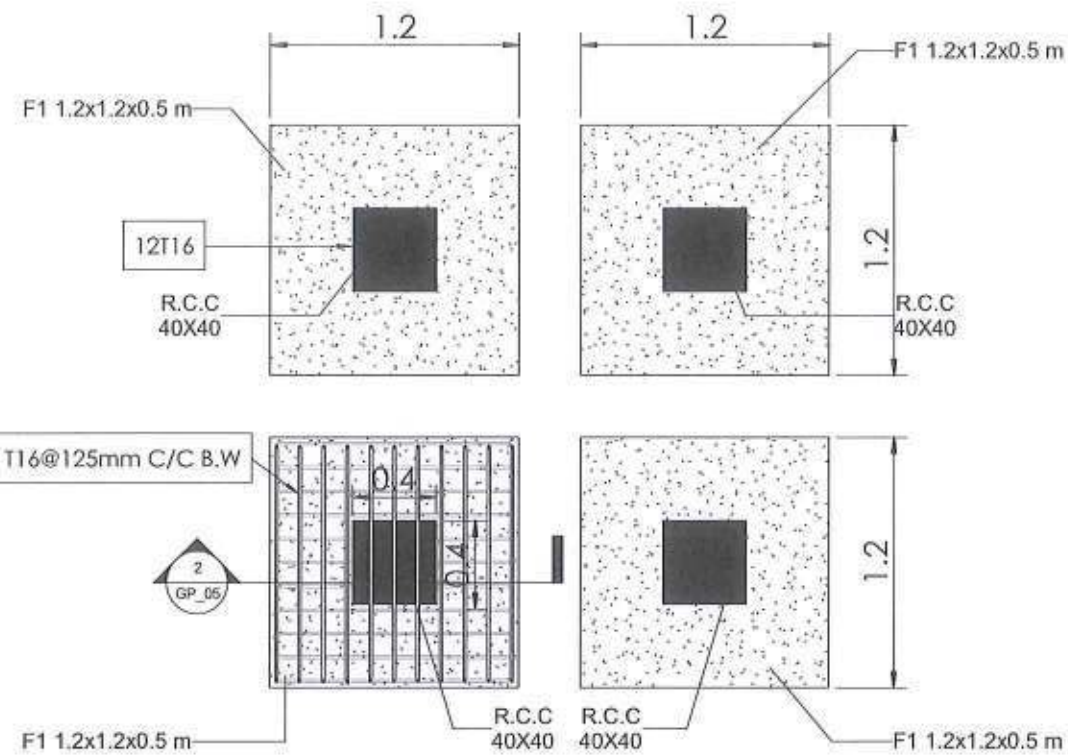
STRUCTURAL ENGINEER :
ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY :
ENG. AMRAN MOHAMMED OTHMAN

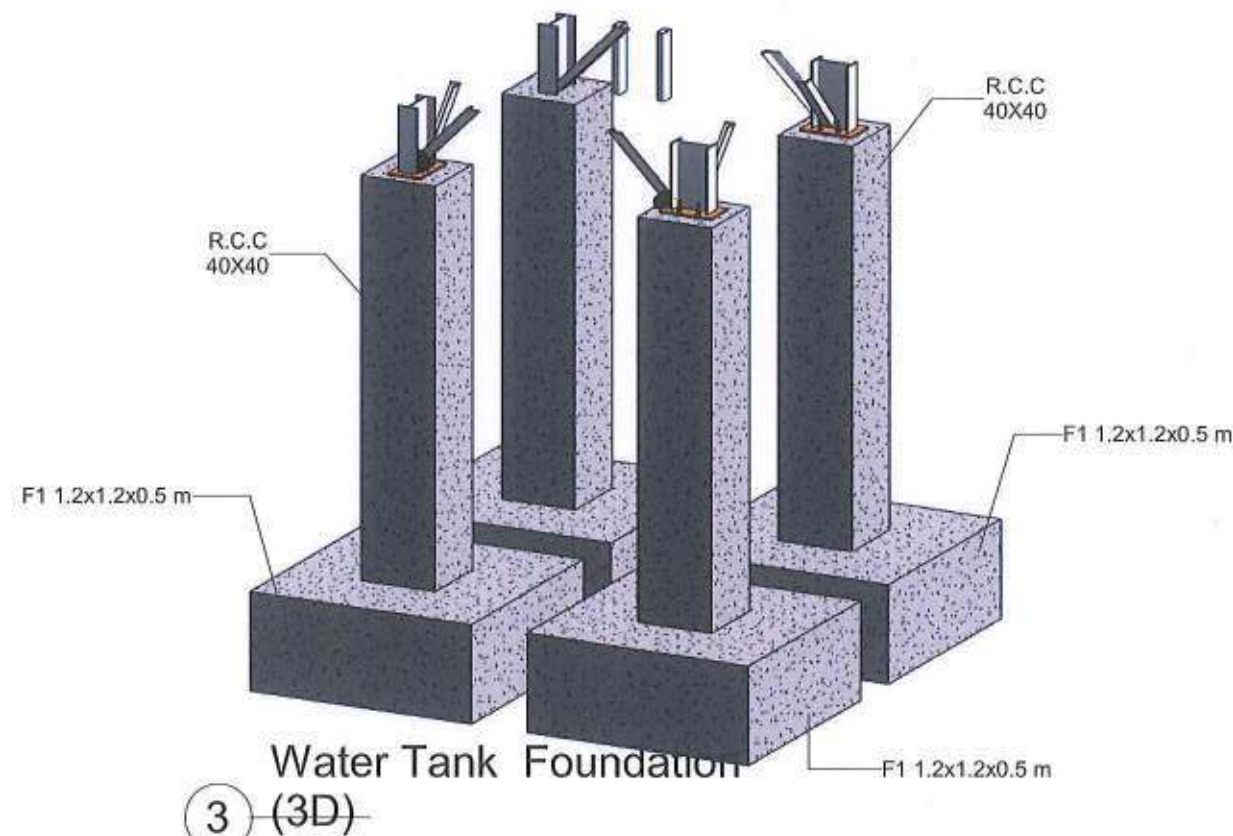
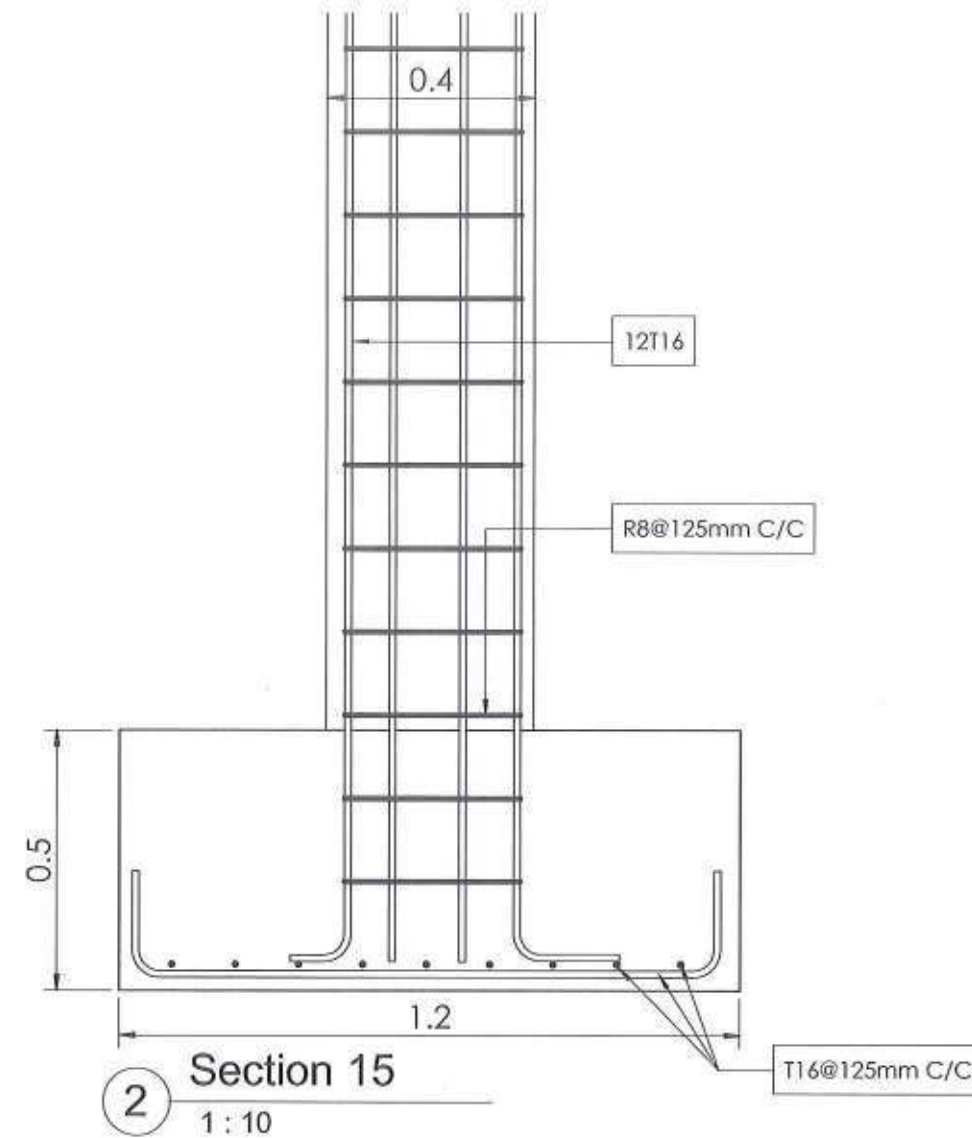
DRAWING TITLE :
Water Tower Details

DATE : January 2022

INDEX : GP_04	SCALE : As indicated	
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1 Foundation Plan
1 : 25



3 (3D)



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PROGRAM TITLE :
T05-EUTF-HOA-SD-73-01

PROJECT TITLE :
HEALTH CENTER OF OTASH (NY04)

LOCATION :
SOUTH DARFUR
Northern Nyala

ARCHITECT :
ENG.Rabab Azhari Fadel Elsed
STRUCTURAL ENGINEER :

ENG.IBRAHIM MOHAMMED IBRAHIM
CHECKED BY :
ENG. AMRAN MOHAMMED OTHMAN

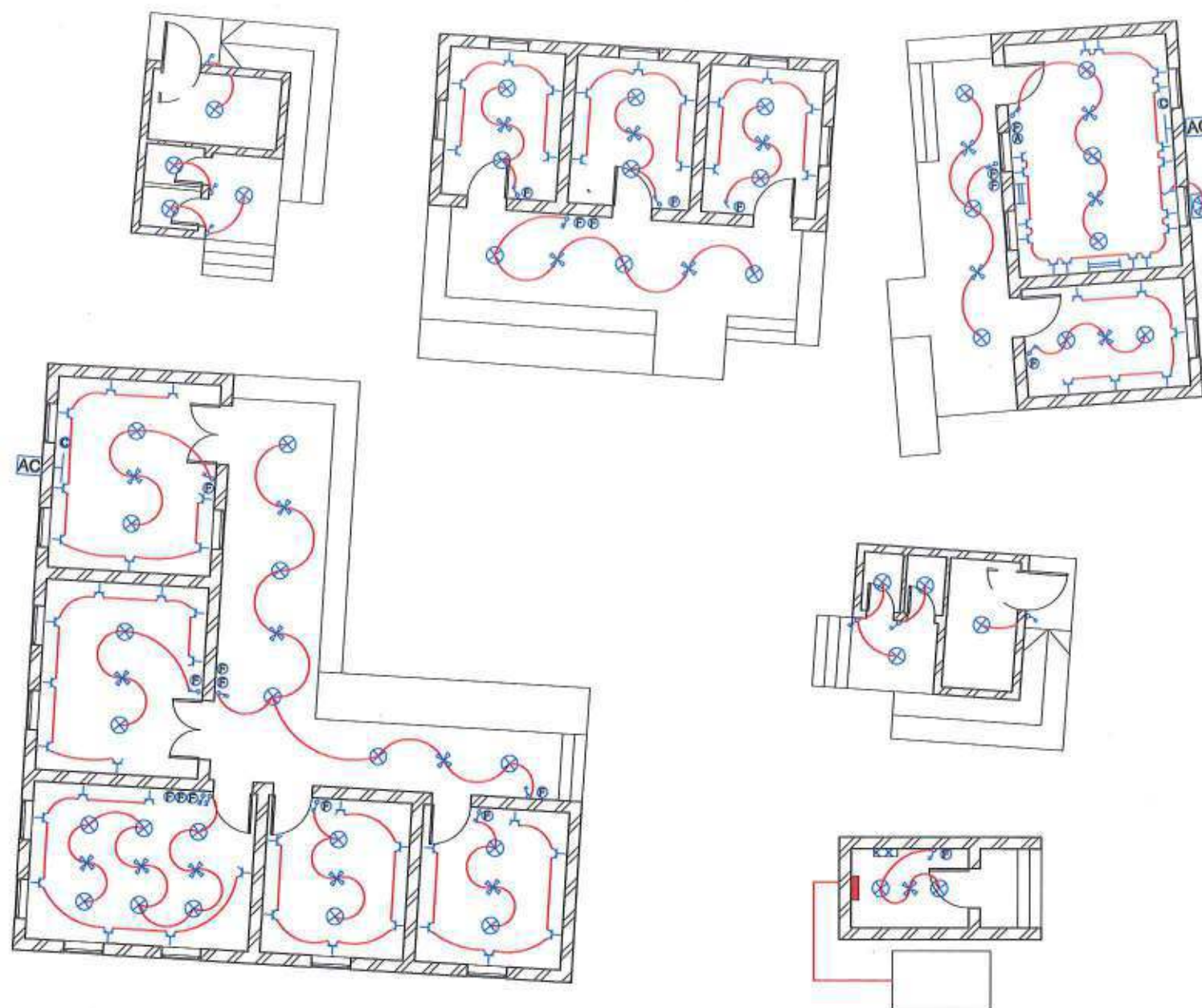
DRAWING TITLE :
WATER TOWER FOUNDATION
DETAILS

DATE : January 2022

INDEX :
GP_05

SCALE :
As indicated





DESCRIPTION

	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	SOCKET OUTLET POINT
	AC SWITCH 45 AMP
	FAN SWITCH
	AUTOCLAVE 20 AMP
	CEILING LAMP
	NEON LAMP
	CEILING FAN
	EXHAUST FAN
	AIR CONDITIONER 24000BTU
	INVERTOR
	MAIN DISTRIBUTION BOARD
	GENERATOR

GENERAL PLAN

1

1 : 150



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Block 12 K-east Khartoum, SUDAN

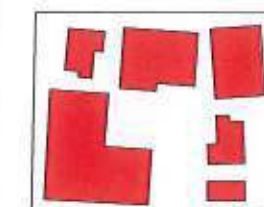
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DOUBLE DTC ENGINEERING



PROGRAM TITLE:

T05-EUF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF QASH (NY06)

LOCATION:

SOUTH ARABIA NORTHERN NYALA

ELECTRICAL ENGINEER:

ENG. MOHAMMED SALAH ADAMIR

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GENERAL PLAN ELECTRICAL
LAYOUT

DATE: JANUARY 2022

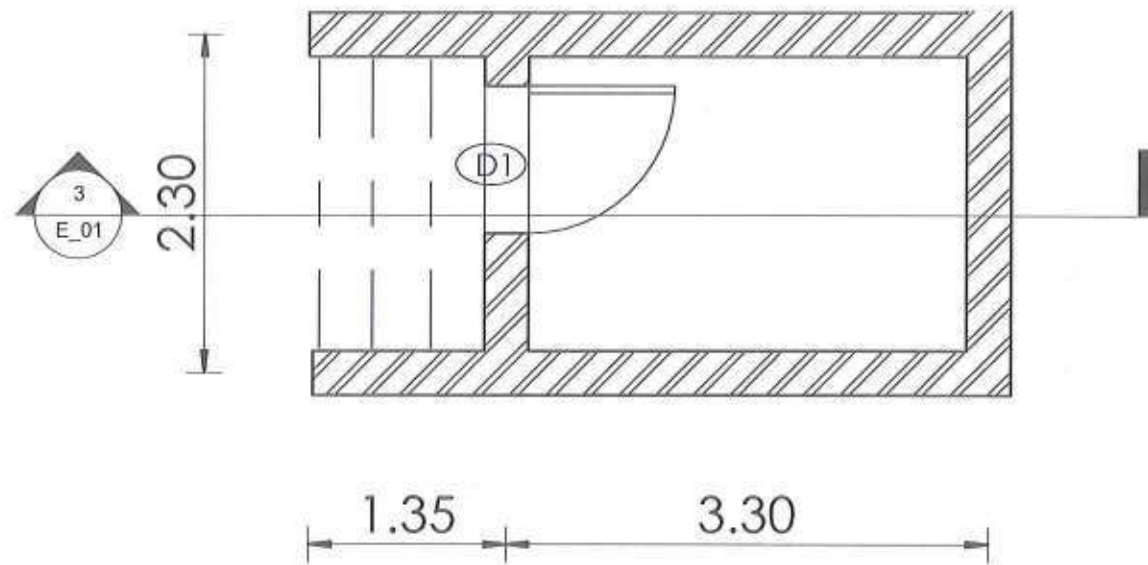
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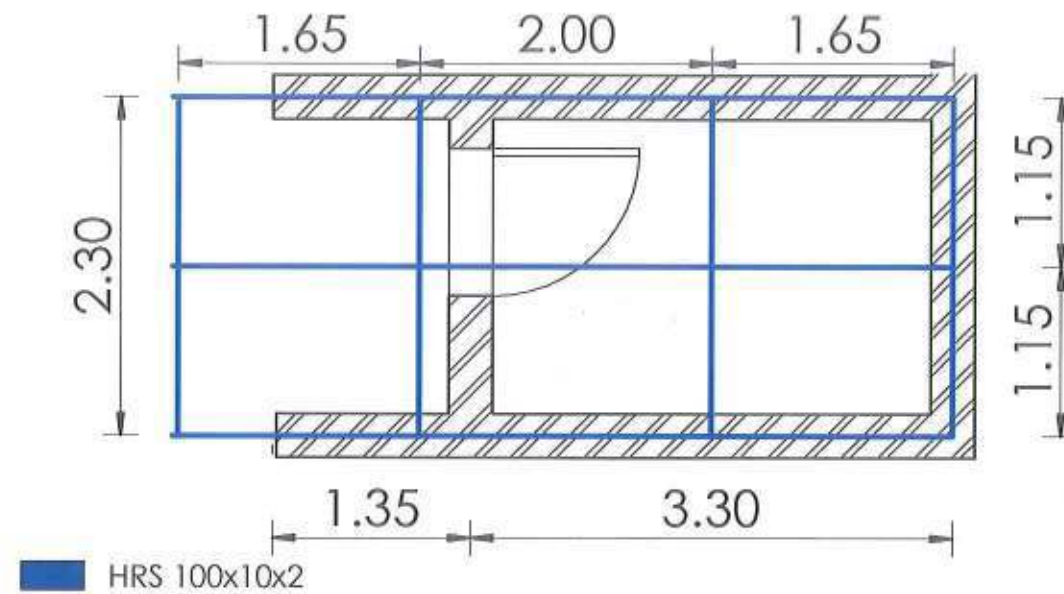
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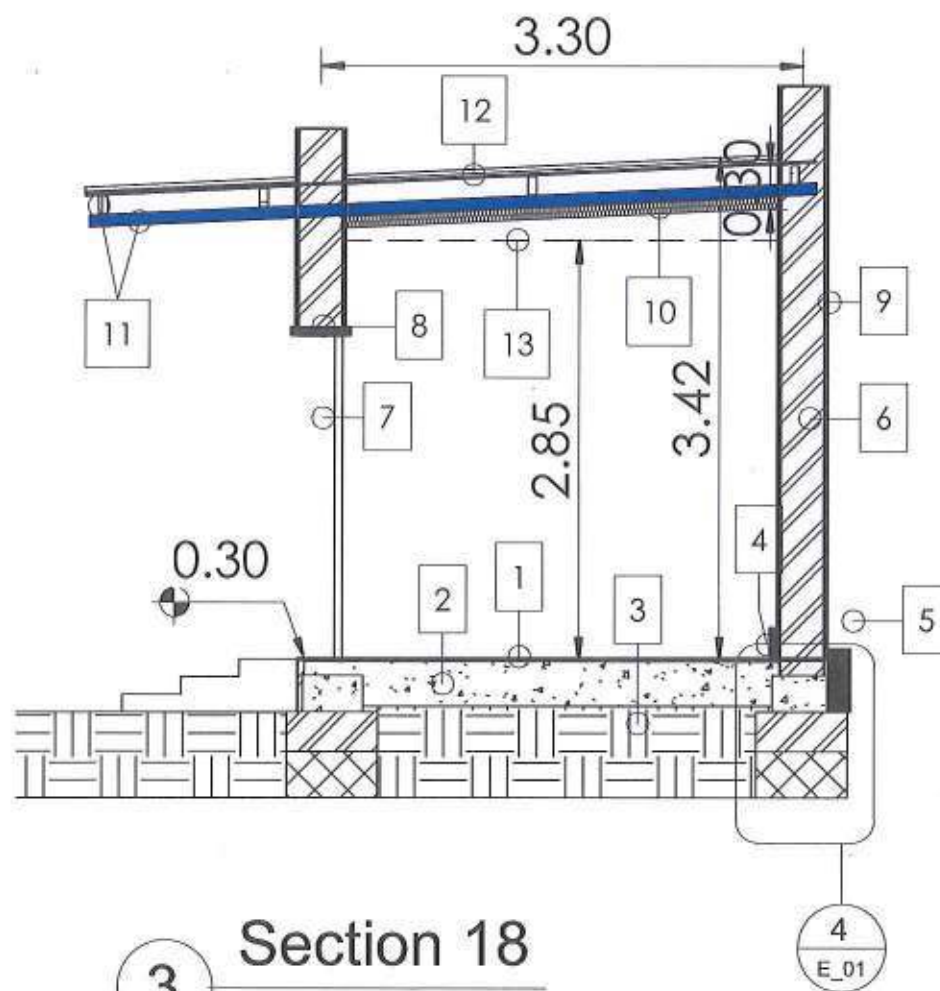




1 Electrical room plan.
1 : 50

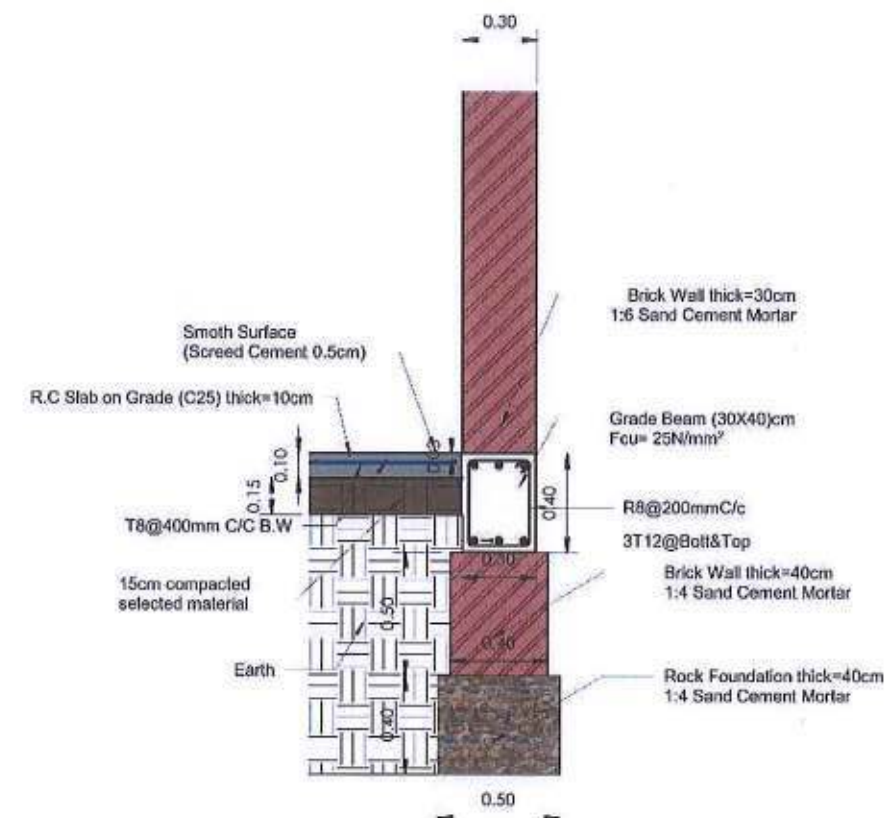


2 Electrical room roof plan
1 : 50



3 Section 18
1 : 50

1	Tiles (internal ceramic)
2	Reinforced Concrete(C20)
3	Compacted Soil
4	Skirting Tiles
5	Curbstone
6	Wall
7	Door
8	Lintel Beam
9	Screed and Paint
10	Insulation Layre
11	HRS 10X5X2
12	Steel Sheet (Zinc)
13	False Ceiling



4 Section 18 - Callout 1
1 : 50

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DOUBLE QTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF DASH NYUGI

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Electrical Room

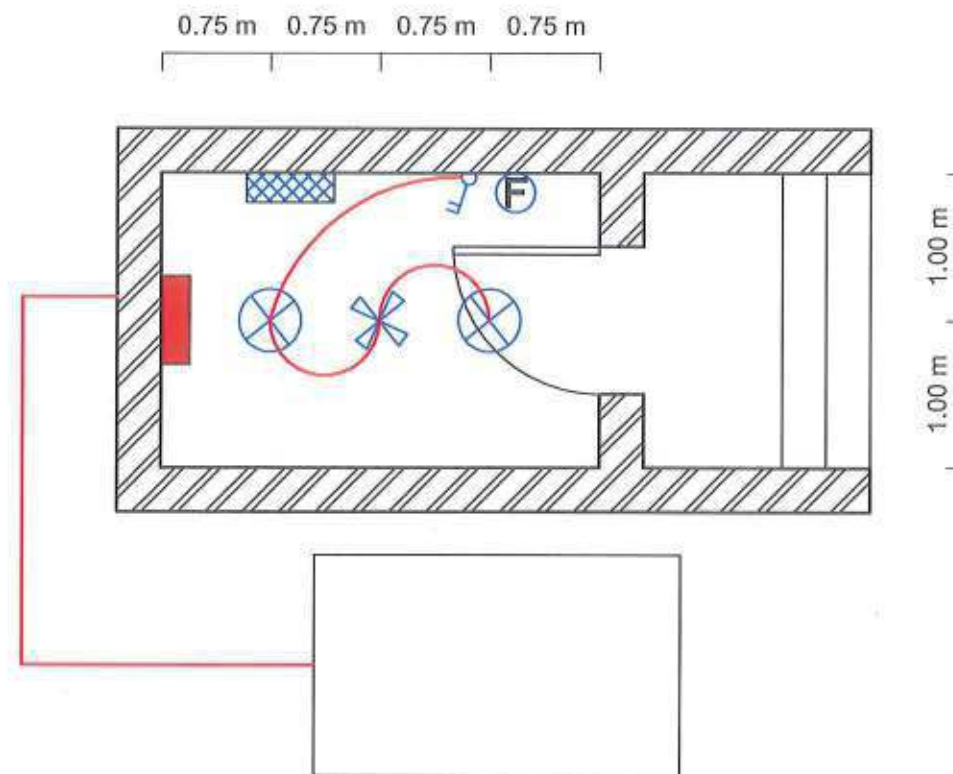
DATE: JANUARY 2022

INDEX:

E_01

SCALE:

1 : 50



DESCRIPTION	
	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	FAN SWITCH
	CEILING LAMP
	CEILING FAN
	INVERTOR
	MAIN DISTRIBUTION BOARD
	GENERATOR

1 ELECTRICAL ROOM

1 : 50

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HEALTH CENTER OF QASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:

ENG. MOHAMMED SALAH ALAMIR

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

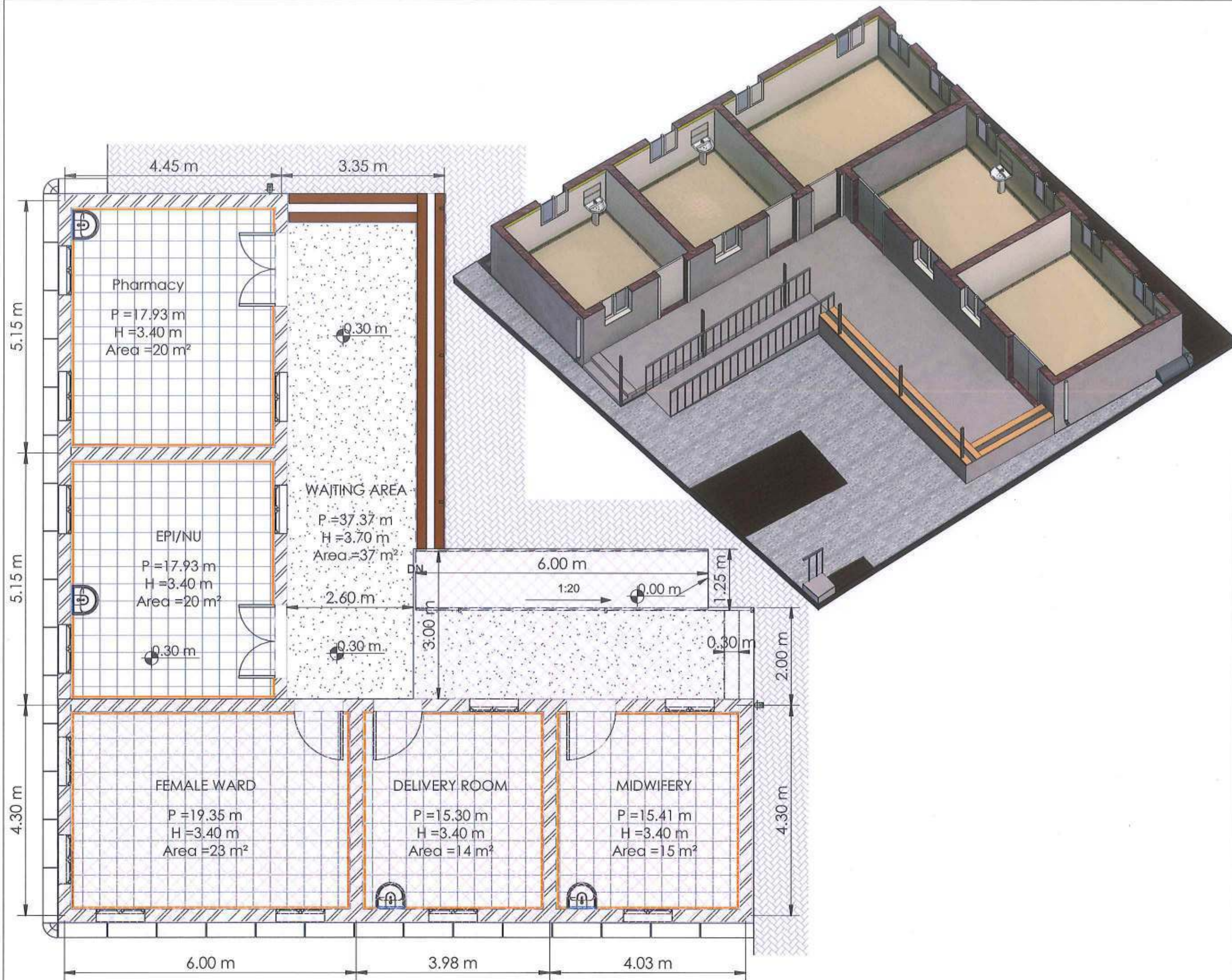
DRAWING TITLE:

ELECTRICAL ROOM ELECTRICAL LAYOUT

DATE: JANUARY 2022

INDEX: E_02

SCALE: 1 : 50

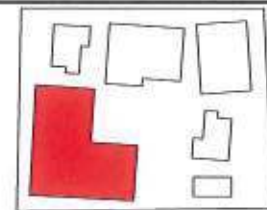


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Legend

	New internal flooring (+0.30) with ceramic tiles (40x40cm)
	Screed cement flooring
	Killing ceramic H=10cm
	Wall ceramic tile (15x15cm)
	New building
	Rubble floor

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DAKAR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN

DATE: January 2022

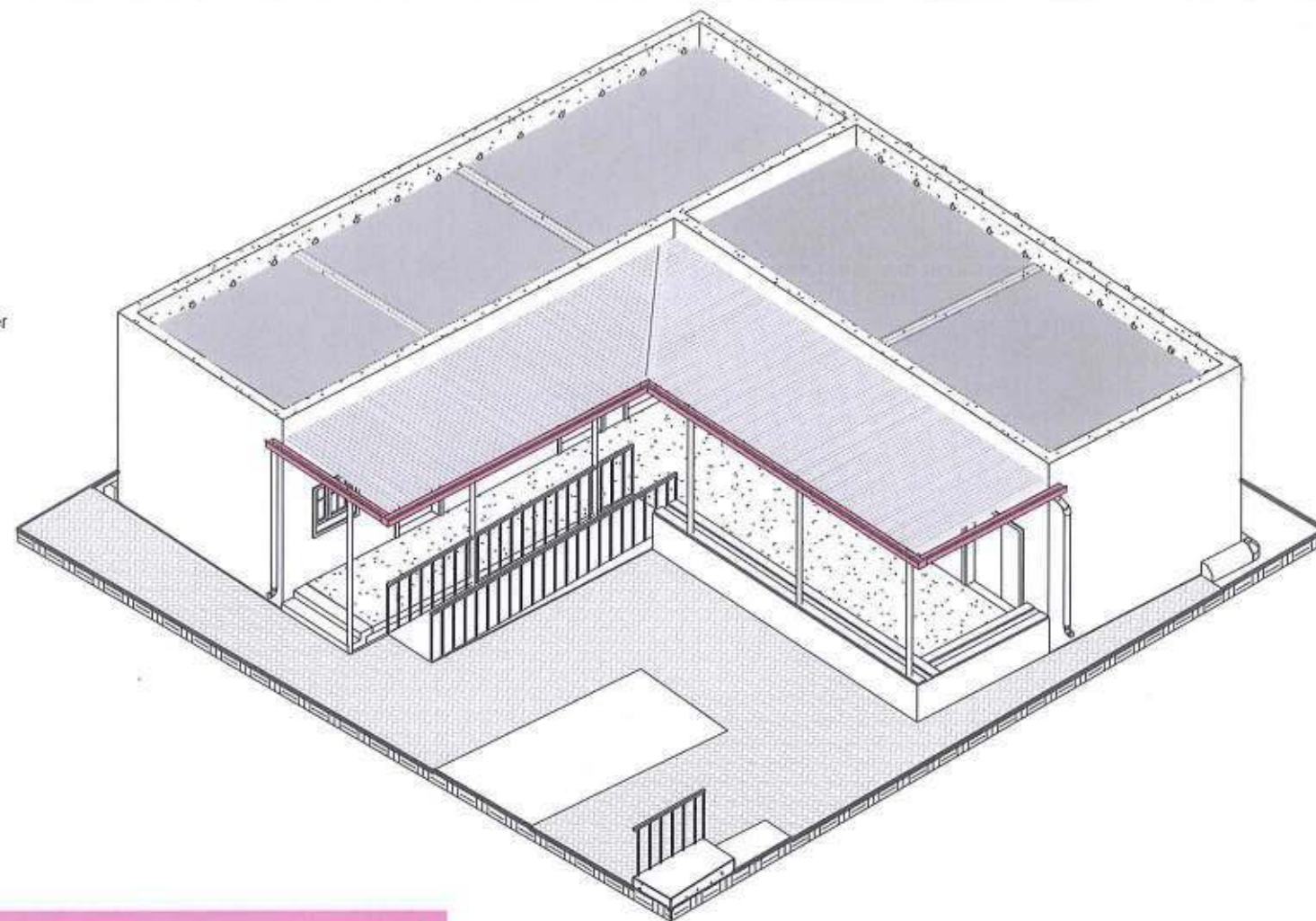
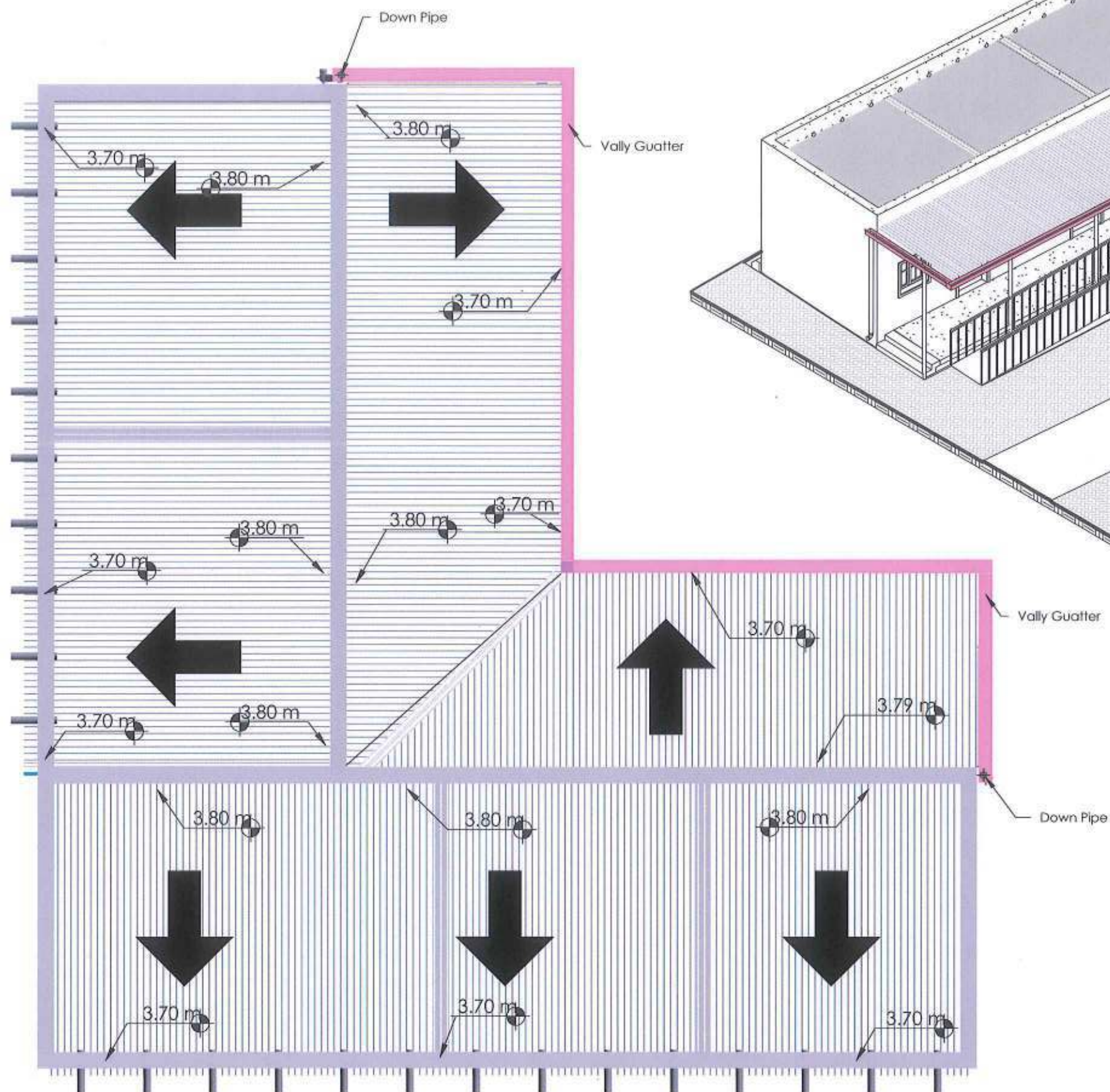
INDEX:

A_01

SCALE:

As indicated





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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

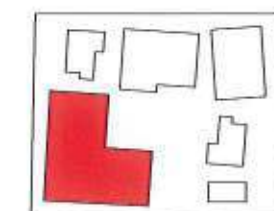
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+249115418666

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DOUBLE DTC ENGINEERING



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LOCATION:

SOUTH DARFUR NORTHERN NIALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

ROOF PLAN

DATE: January 2022

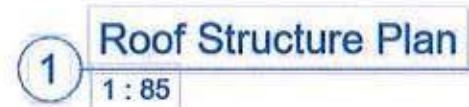
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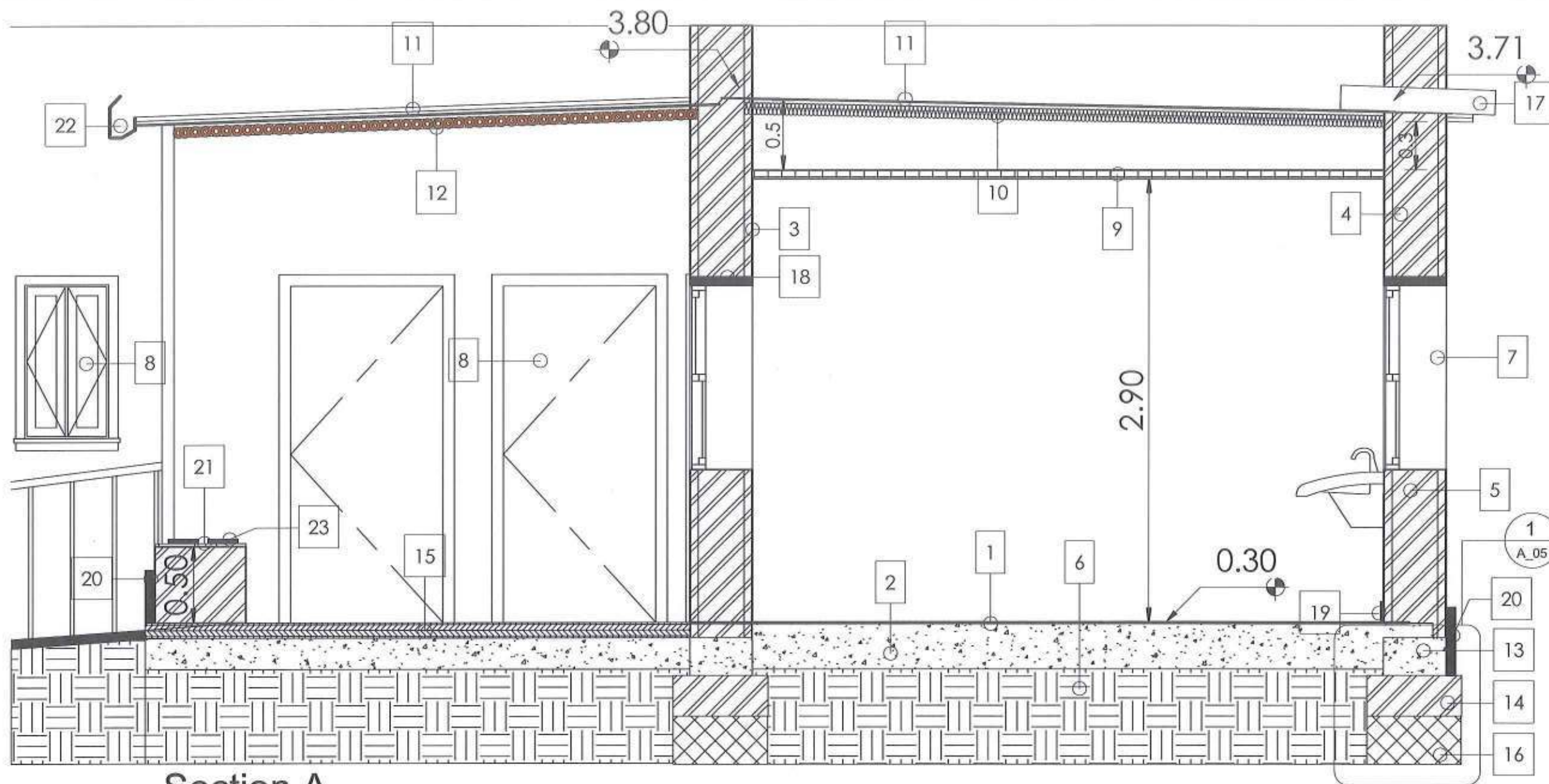
A_02

SCALE:

1 : 70







Section A

1

1 : 30

1	Tiles (internal ceramic)	8	Door	15	Concrete Floor	22	Galvanized Gutter
2	Reinforced Concrete(C20)	9	False Ceiling	16	Rock Foundation	23	Wodden Planks
3	Paint	10	Insulation Layre	17	PVC Pipe	17	
4	Screed	11	Steel Sheet (Zinc)	18	Lintel Beam	18	
5	Wall	12	Bambo	19	Skerting Tiles	19	
6	Compacted Soil	13	Grade Beam	20	Curbstone	20	
7	Window	14	Wall 40 cm (Gasa)	21	Plaster	21	

AICS-Italian Agency for Development Cooperation - SDN
 13 Project St. no 33 Amarat, House no 25
 Block 12 K-east Khartoum, SUDAN

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 TEL: +249925451234
 +249115418666
 EMAIL: DQTC.ENGINEERING@GMAIL.COM

DOUBLE DTC ENGINEERING

1
A_05

PROGRAM TITLE:
 T05-EUTF-HOA-SD-73-01

PROJECT TITLE:
 HEALTH CENTER OF OTASHINY06

LOCATION:
 SOUTH DARFUR
 Northern Nyala

STRUCTURAL ENGINEER:
 ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:
 ENG. AMRAN MOHAMMED OTHMAN

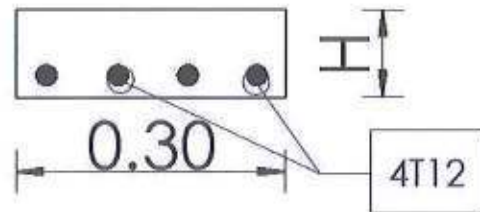
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 Roof Section

DATE: January 2022

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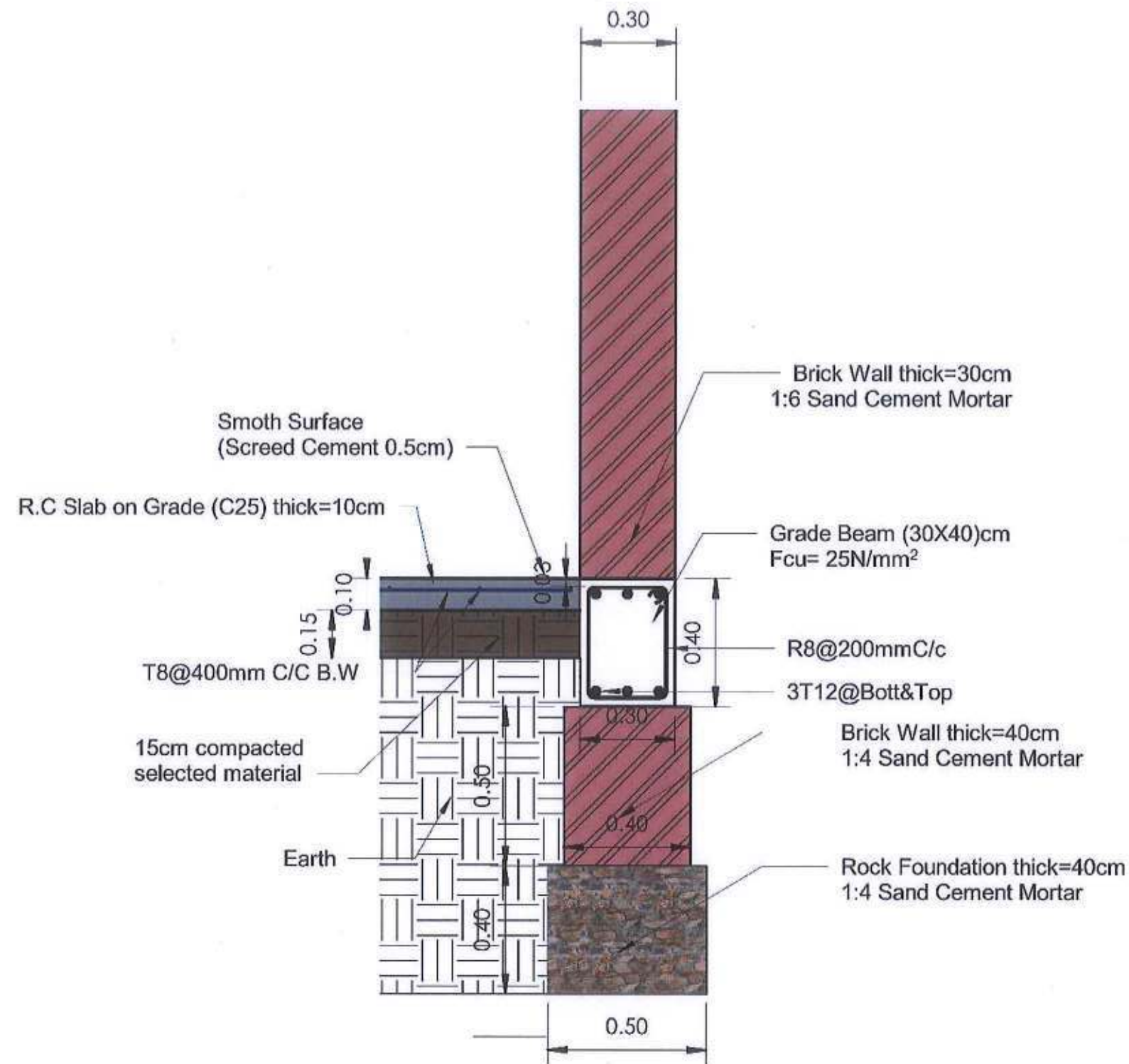
SCALE:
1 : 30

Lintel Beam



H = 10cm for opening width = < 1 m

H = 15cm for opening width > 1 m



1

Callout A
1 : 15

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATIONS:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Lintel Beam and Callout

DATE: January 2022

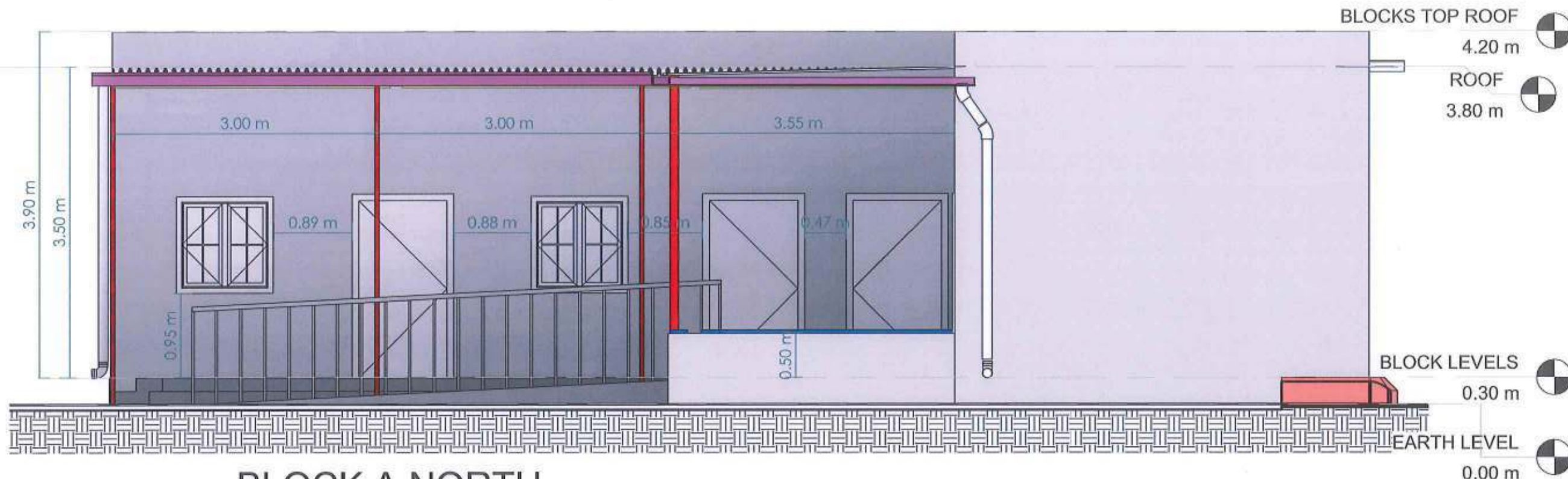
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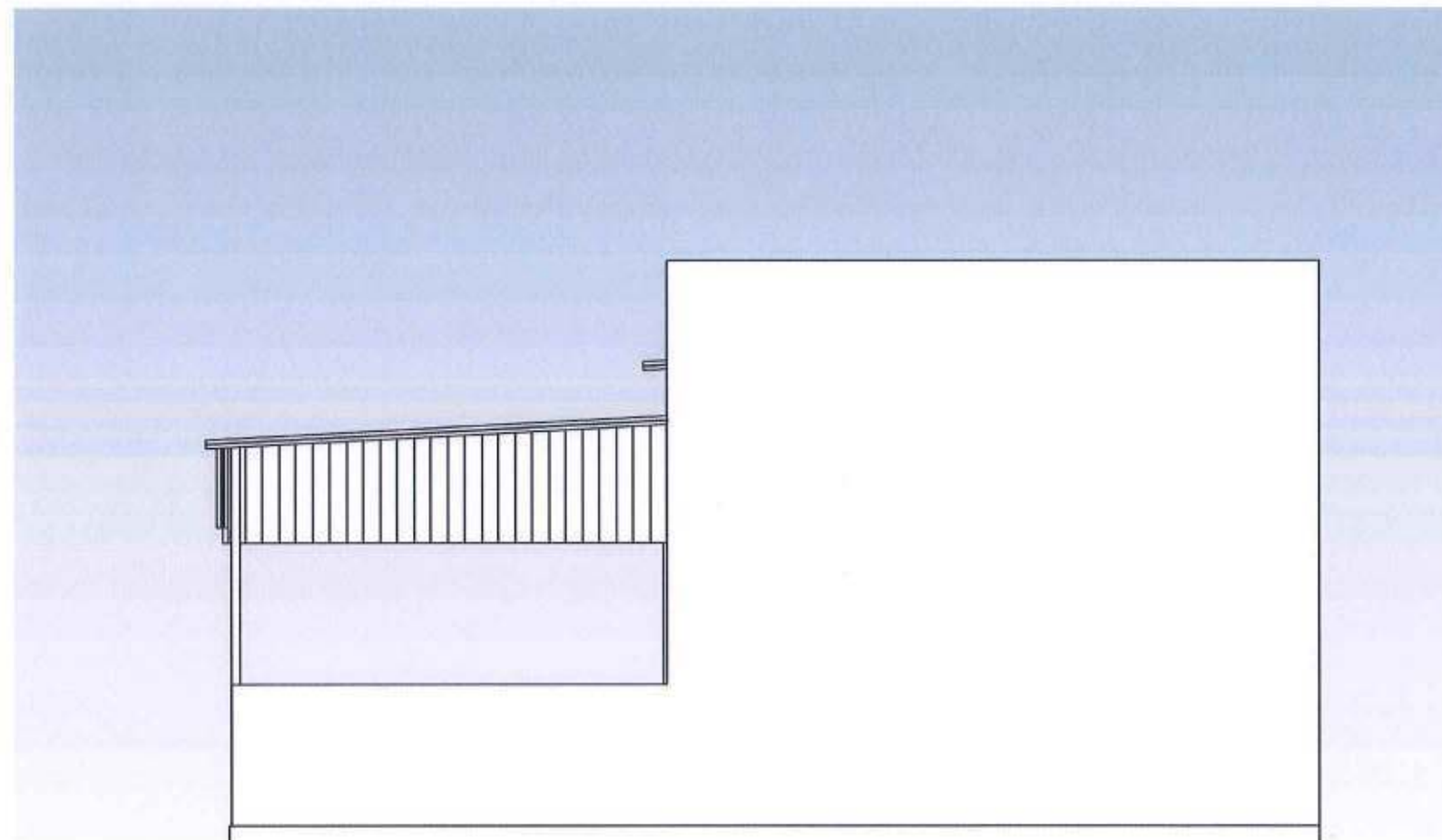
SCALE:

1 : 15





1 BLOCK A NORTH
ELEVATION
1:50



North Elevation Before

AGENZIA ITALIANA
 PER LA COOPERAZIONE
 ALLO SVILUPPO

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DOUBLE DTC ENGINEERING

BLOCK TOP ROOF 4.20 m
 ROOF 3.80 m
 BLOCK LEVELS 0.30 m
 EARTH LEVEL 0.00 m

Legend
 - half gutter
 - wooden bamboo sticks
 - steel column 10x5 cm
 - wooden Planks
 - Curbstone
 - steel lock

PROGRAM TITLE:
 TOS-EUTF-HOA-SDN-73-01

PROJECT TITLE:
 HEALTH CENTER OF OTASH (NY06)

LOCATION:
 SOUTH DARFUR NORTHERN NYALA

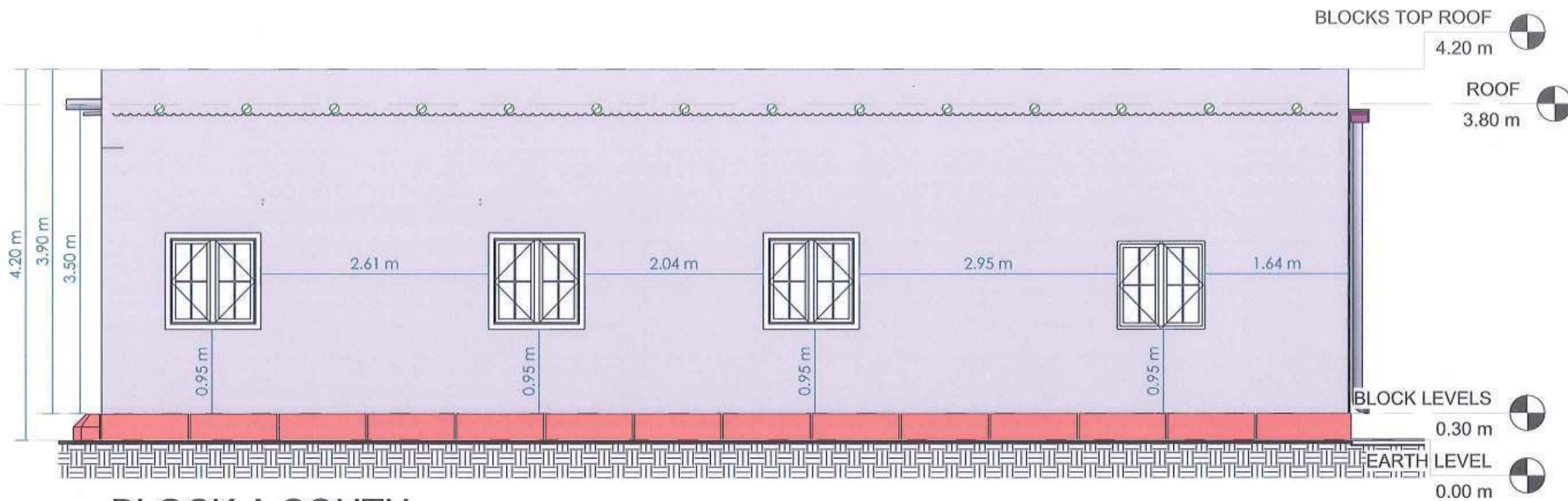
ARCHITECTURAL ENGINEER:
 ENG. BRAHIM MOHAMMED IBRAHIM

CHECKED BY:
 ENG. AMRAN MOHAMMED OTHMAN

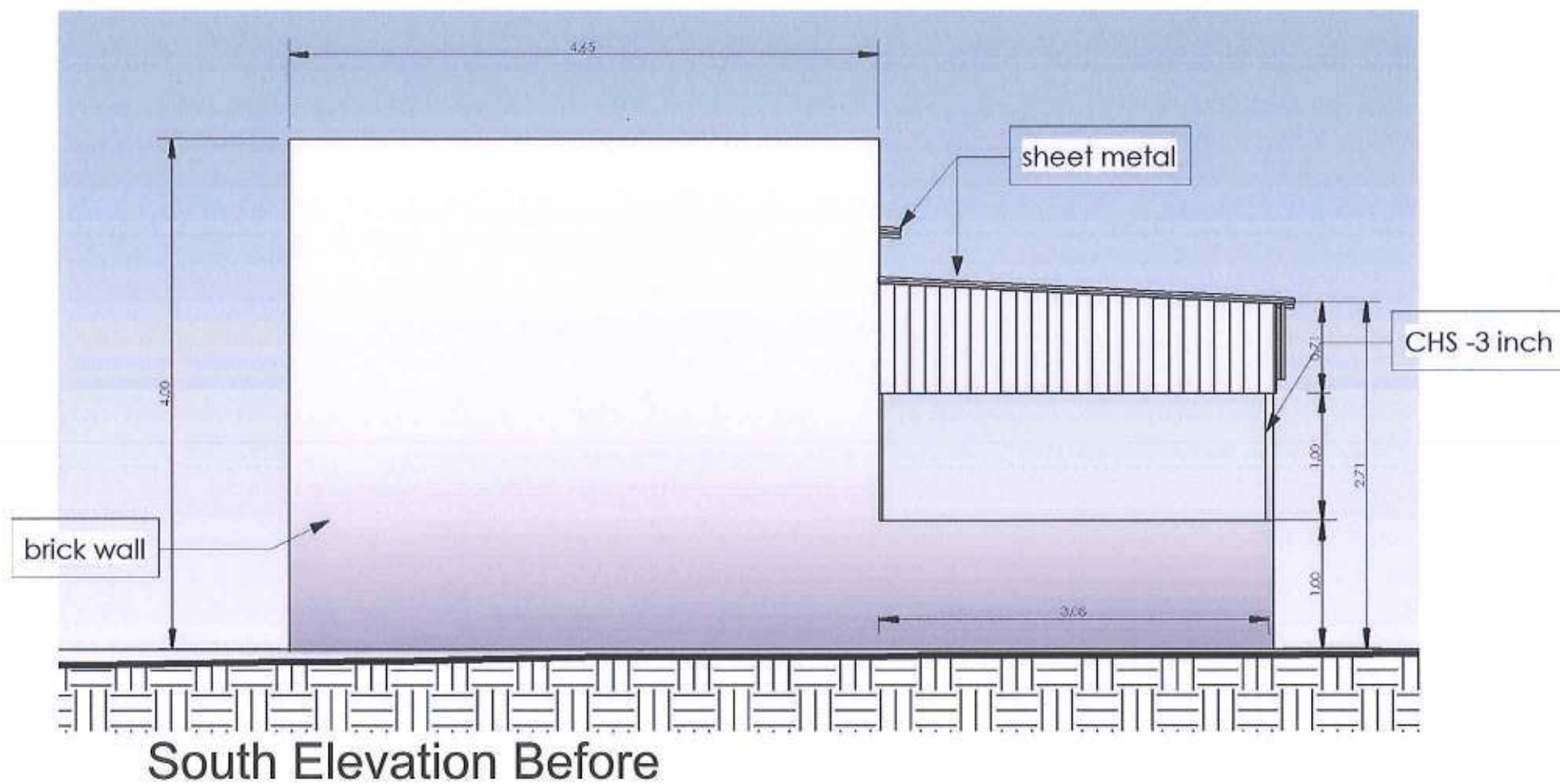
DRAWING TITLE:
 ELEVATIONS

DATE: January 2022

INDEX: A_06 SCALE: 1:50



1 BLOCK A SOUTH ELEVATION AFTER
1:50



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DOUBLE DTC ENGINEERING

Legend

	poly gutter
	wooden bamba sticks
	steel column 10x5 cm
	wooden floor
	Gutterline
	inter lock

PROGRAM TITLE:
T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)

LOCATION:
SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

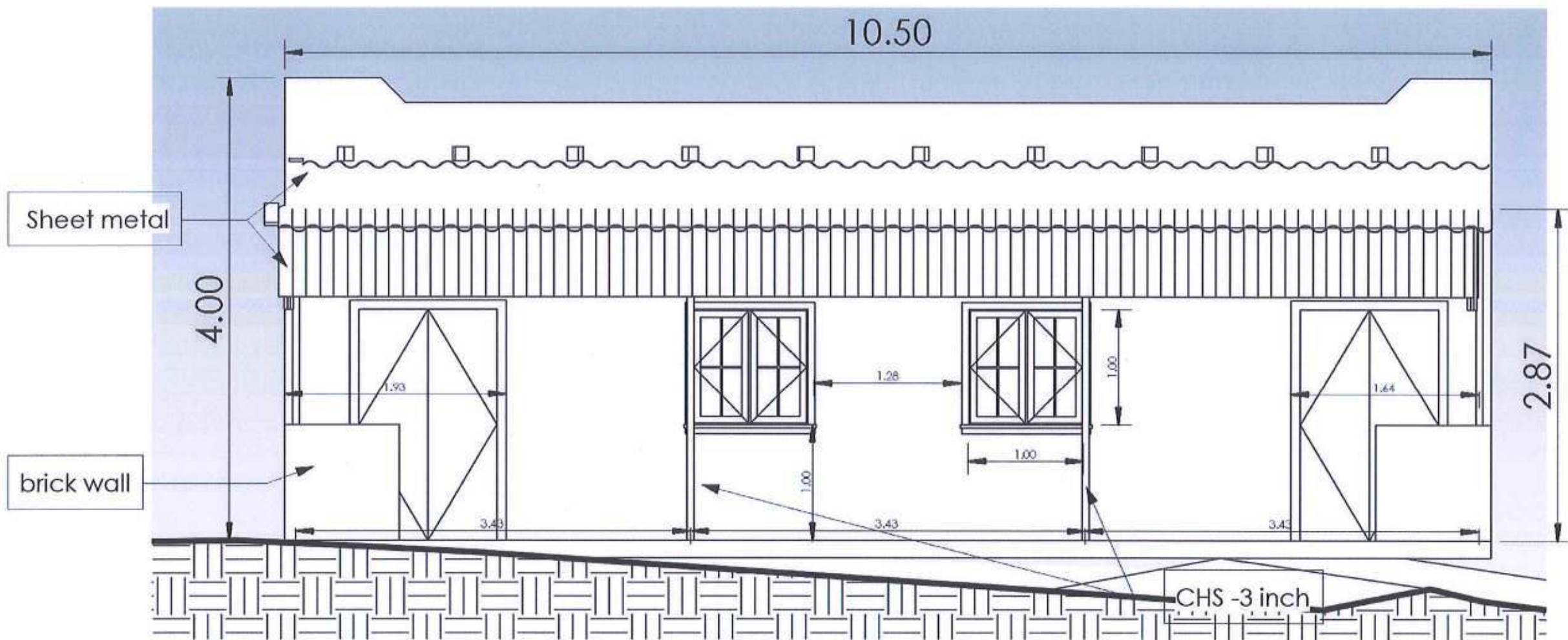
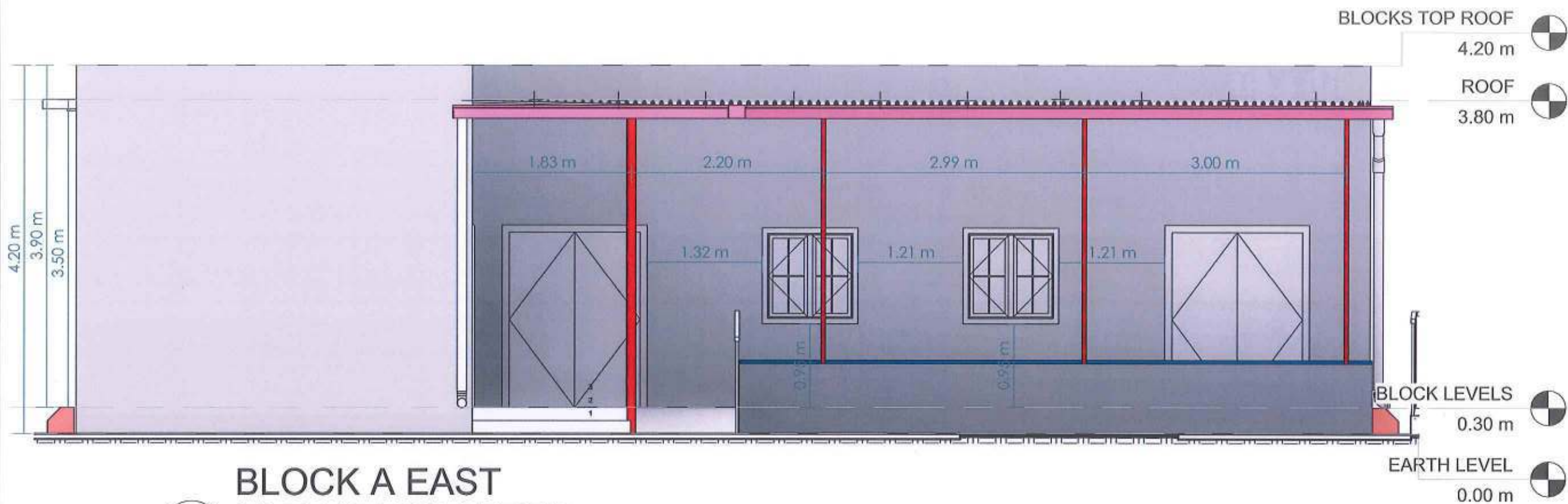
CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
ELEVATIONS

DATE: January 2022

INDEX: A_07

SCALE: 1:50



AGENZIA ITALIANA PER LA COOPERAZIONE ALLO SVILUPPO

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DOUBLE DTC ENGINEERING

Legend

- Wally gutter
- Wadden bamboo sticks
- Steel column 10X5 cm
- Wadden Planks
- Curbstone
- Wier lock

PROGRAM TITLE:
T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:
HEALTH CENTER OF STASH (NY06)

LOCATION:
SOUTH DARFUR-NORTHERN NYALA

ARCHITECTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

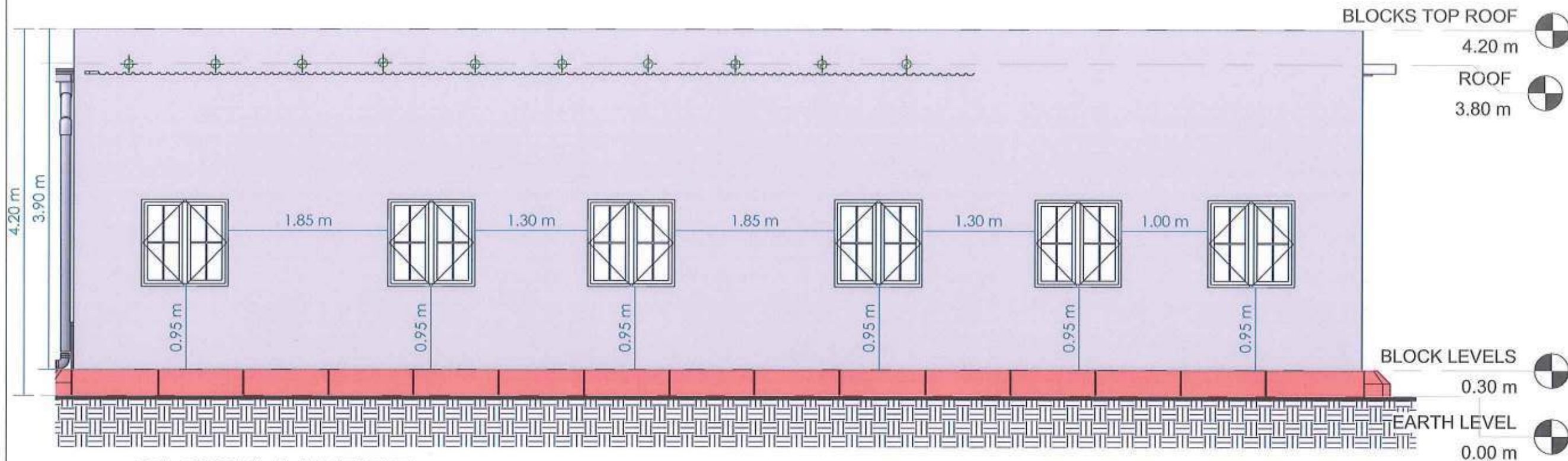
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ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
ELEVATIONS

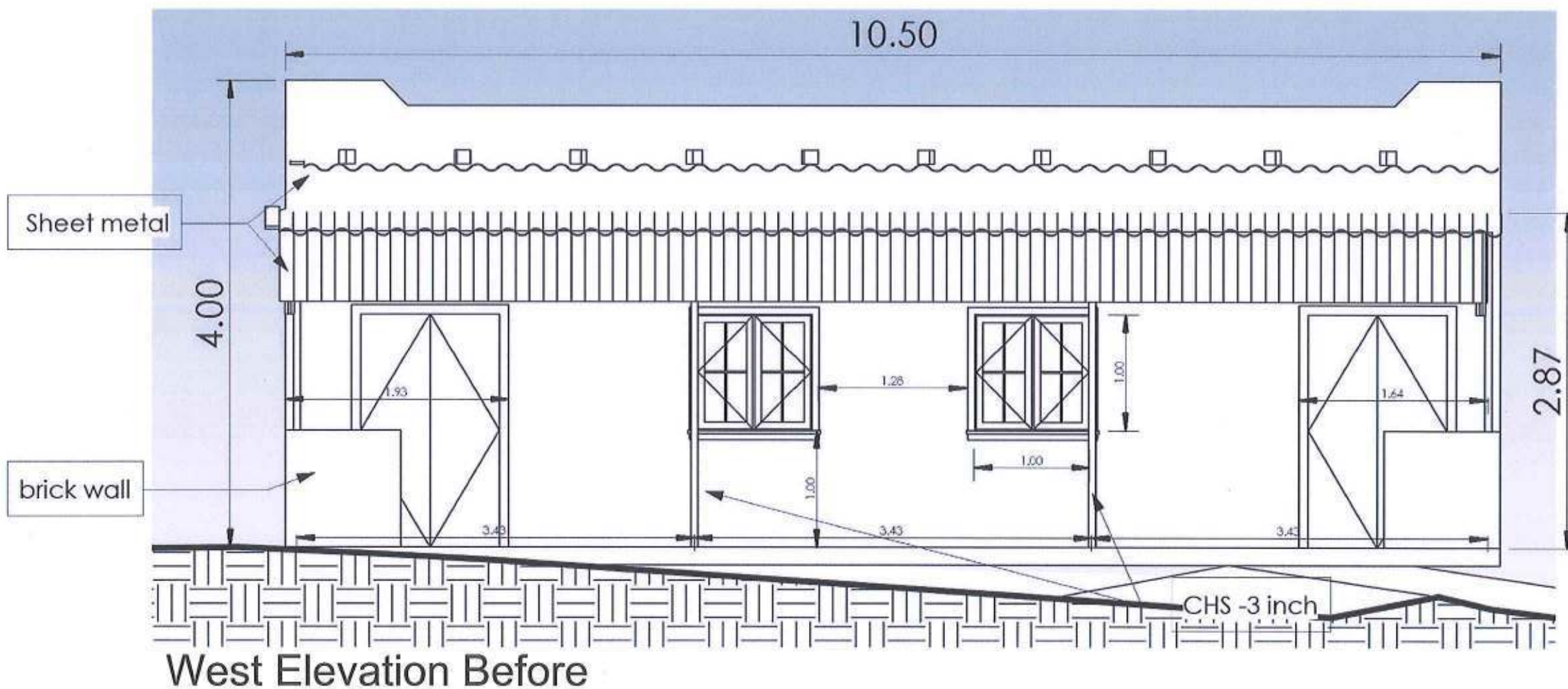
DATE: January 2022


INDEX: A_08

SCALE: 1:50



1 BLOCK A WEST
ELEVATION AFTER
1:50




 **AGENZIA ITALIANA PER LA COOPERAZIONE ALLO SVILUPPO**

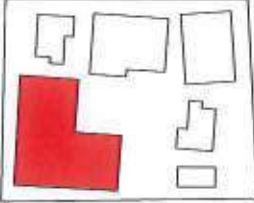
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 **DOUBLE DTC ENGINEERING**



Legend

	poly/gutter
	wooden bamboo sticks
	steel column 100x100 cm
	wooden floor
	curbstone
	river bank

PROGRAM TITLE:
TOS-EUTF-HOA-SDN-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)

LOCATION:
SOUTH DARFUR, NORTHERN NYALA

ARCHITECTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM


CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

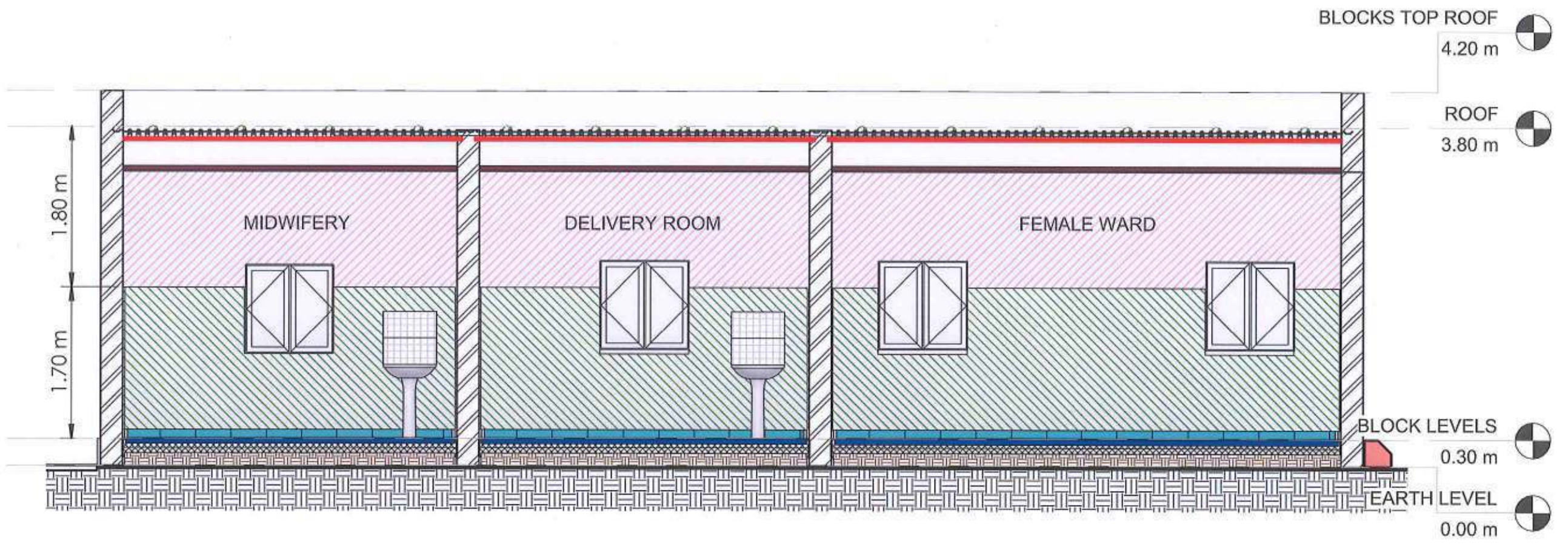
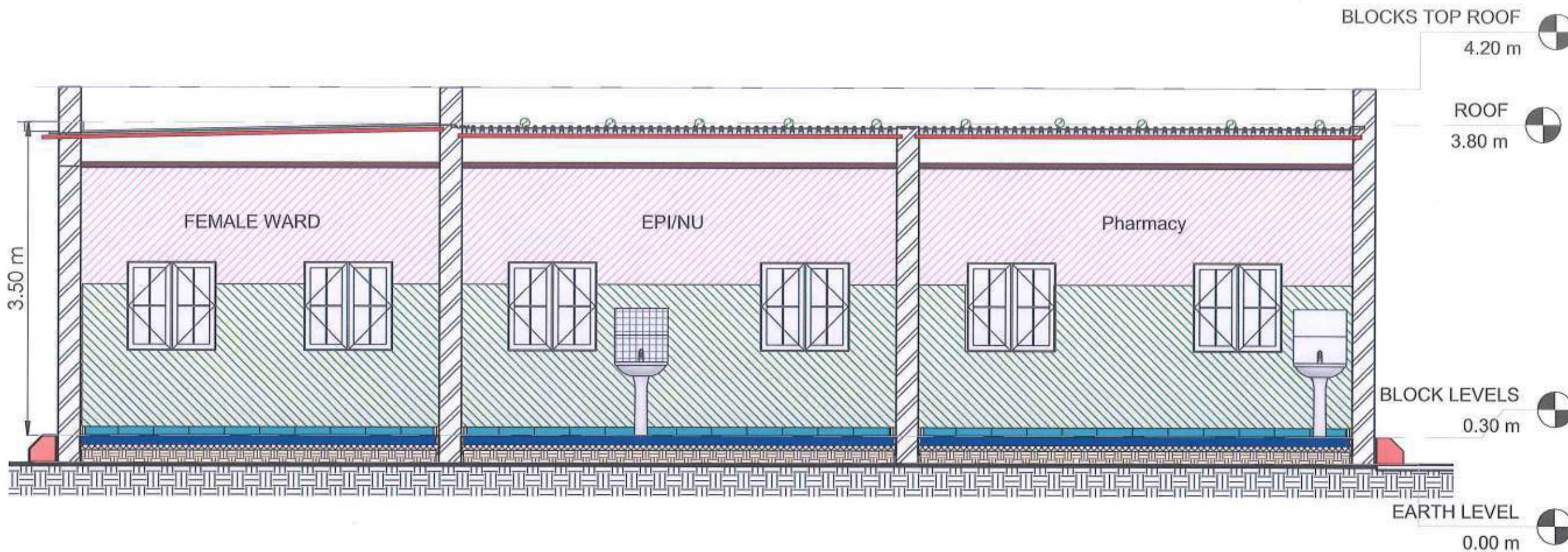
DRAWING TITLE:
ELEVATIONS

DATE: January 2022

INDEX: A_09

SCALE: 1:50





AGENZIA ITALIANA
PER LA COOPERAZIONE
ALLO SVILUPPO

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DOUBLE DTC ENGINEERING

Legend

	Steel column 10x5 cm
	False ceiling
	Emulsion paint (internal) from 1.20m up to ceiling
	Glossy oil paint (internal) from floor up to 1.20m
	Wall Tiles 15x15
	Sliding Tiles 40x10
	Floor Tiles 40x40
	Reinforced Concrete Floor
	Compacted Soil
	Rain Drain Pipe

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

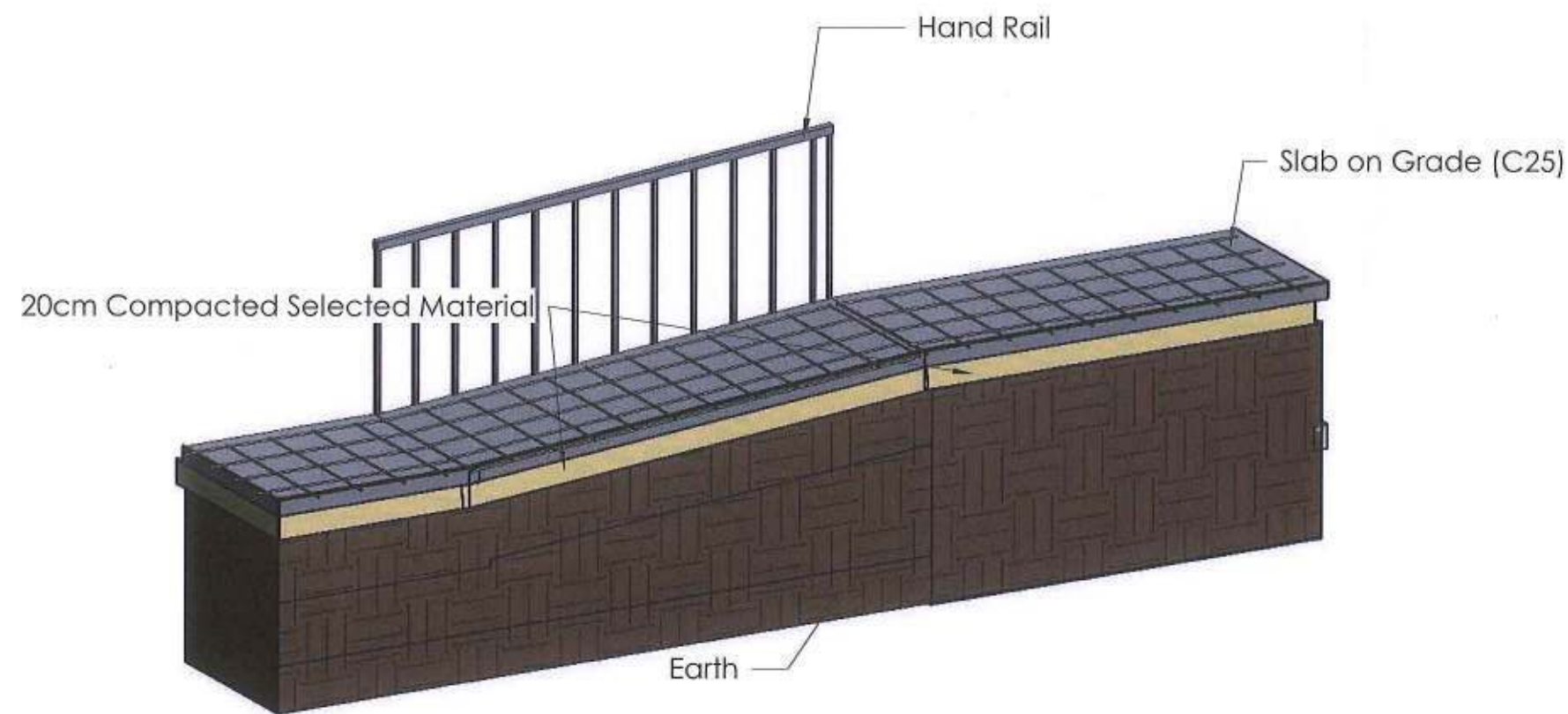
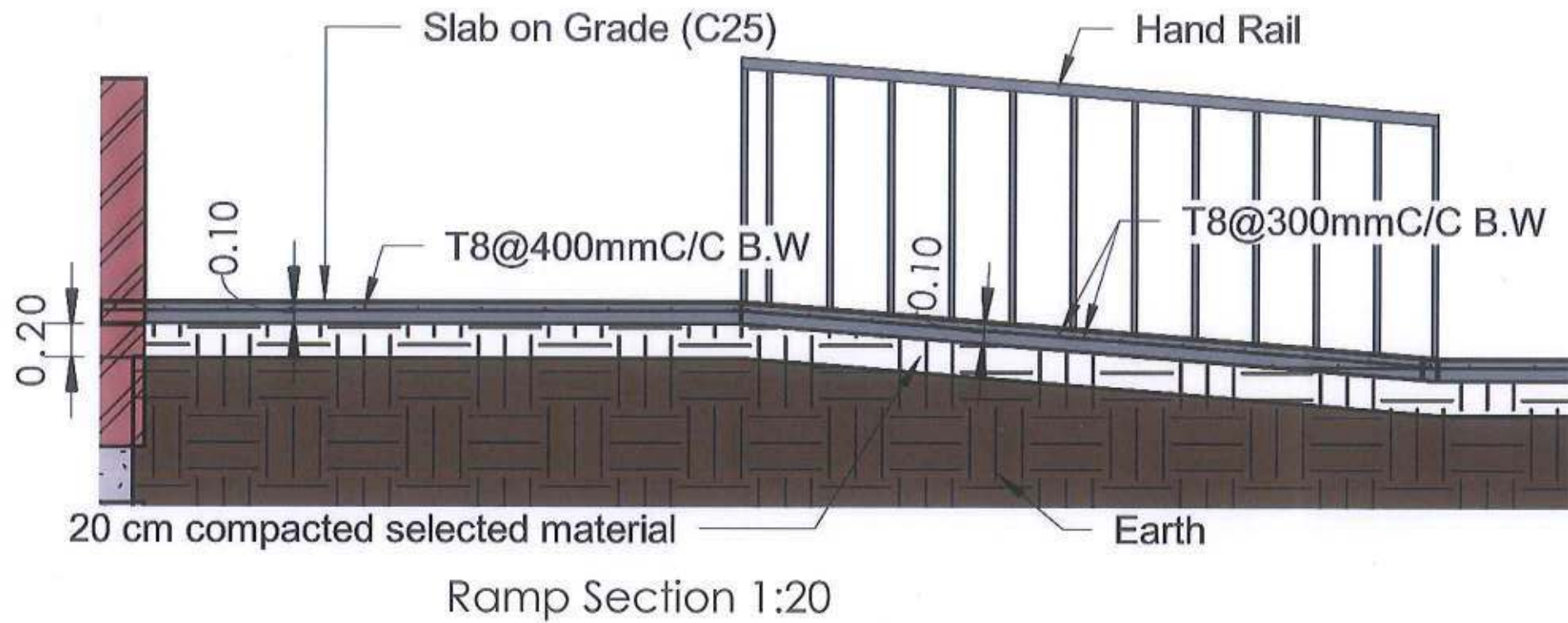
DRAWING TITLE:

SECTIONS

DATE: January 2022

INDEX: A_10

SCALE: 1:50



PROGRAM TITLE:

T05-EUTF-HQA-SD-73-01

PROJECT TITLE:

HEALTH CENTER Q5 OTASHINYO

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. BRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Ramp Section and 3D

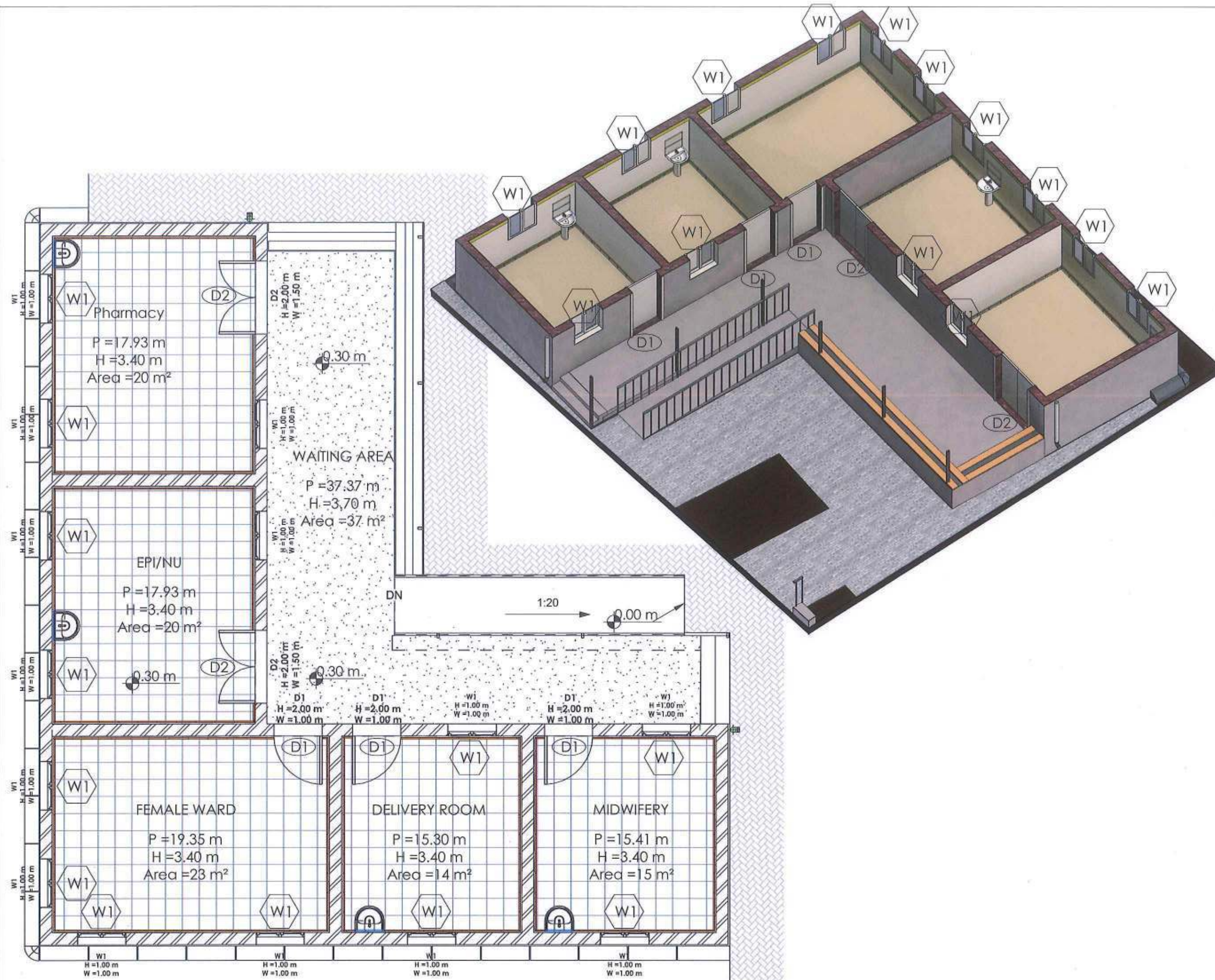
DATE: January 2022

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A_11

SCALE:





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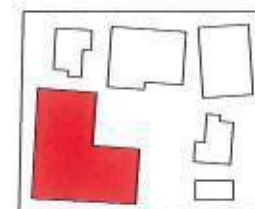
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 +249115418666

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DOUBLE DTC ENGINEERING



Door Schedule BLOCK A

Type	Width	Height
D1	1.00 m	2.00 m
D2	1.50 m	2.00 m

Window Schedule BLOCK A

Type	Width	Height
W1	1.00 m	1.00 m

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN Doors & Windows

DATE: January 2022

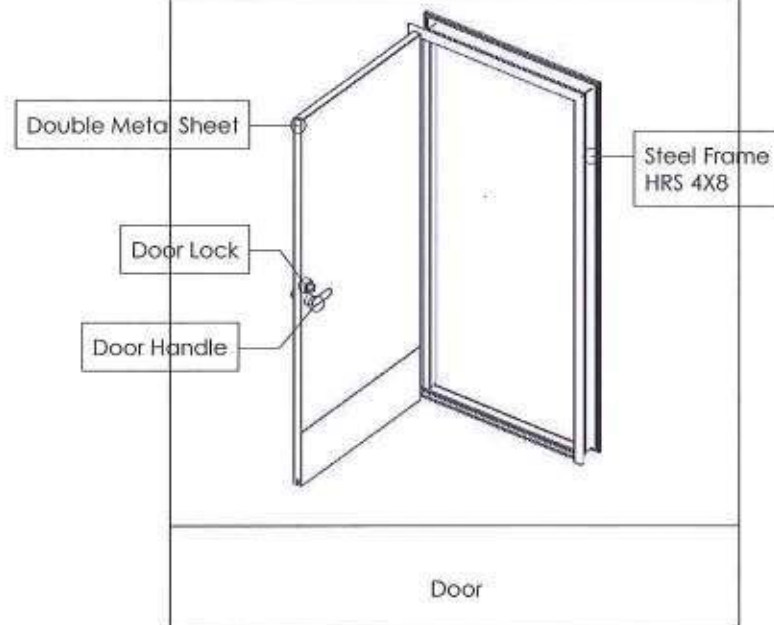
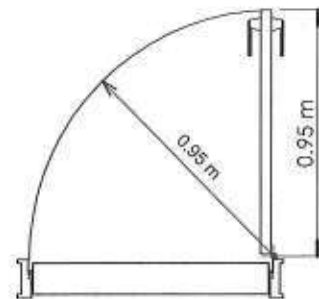
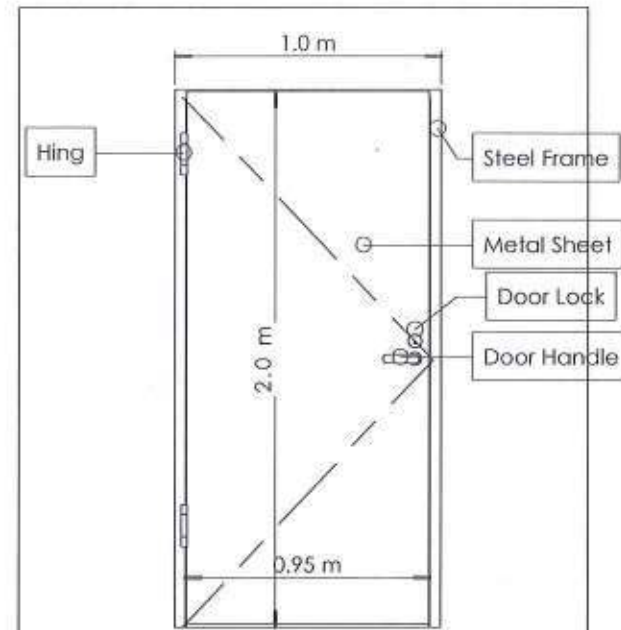
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A_12

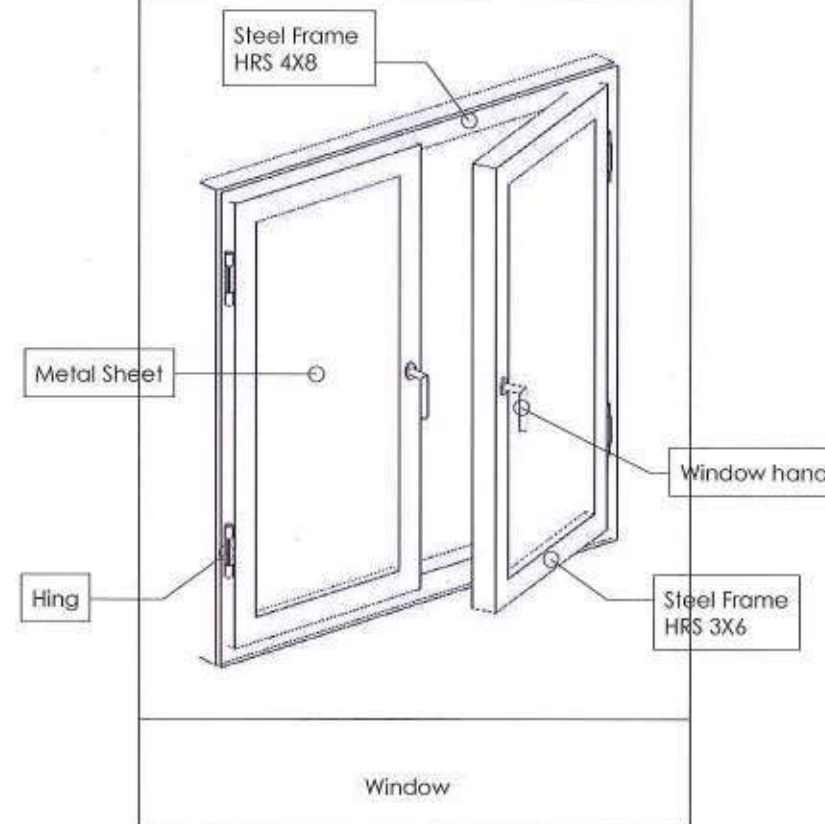
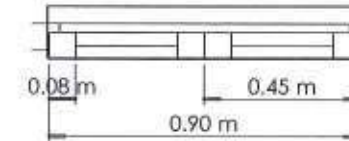
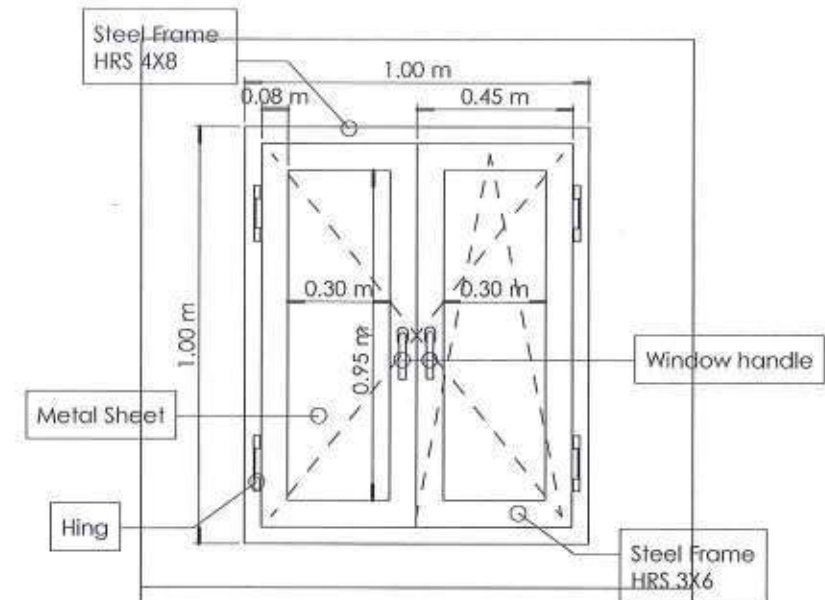
SCALE:

1:70





DOOR Details
1 : 20



WINDOWS Details
1 : 15



ACS-Italian Agency for Development
Cooperation - SDN
13 Project St, no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

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PROGRAM TITLE :
T05-EUTF-HOA-SD-73-01

PROJECT TITLE :
HEALTH CENTER OF OTASH (NY06)

LOCATION :
SOUTH DARFUR NORTHERN NYALA

ARCHITECT :
ENG. IBRAHIM MOHAMMED IBRAHIM
STRUCTURAL ENGINEER
ENG. Designer
CHECKED BY :
ENG. AMRAN MOHAMMED OTHMAN

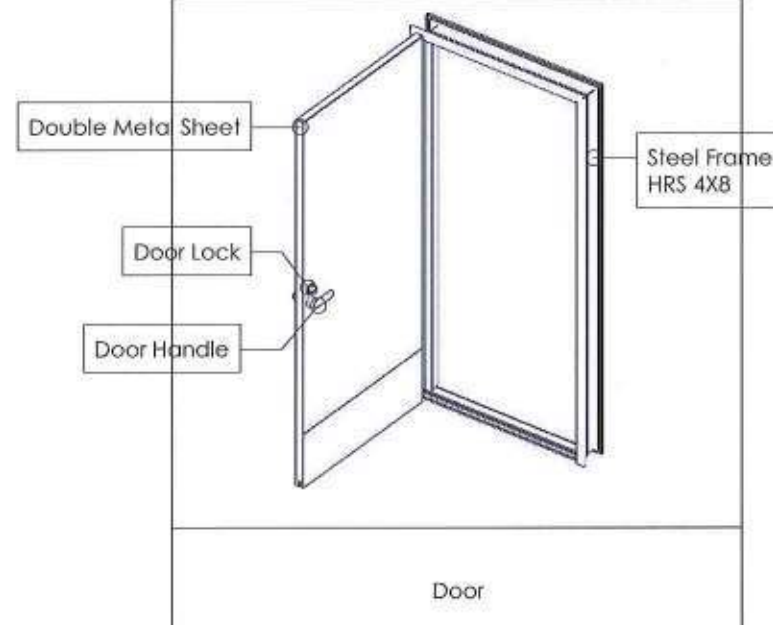
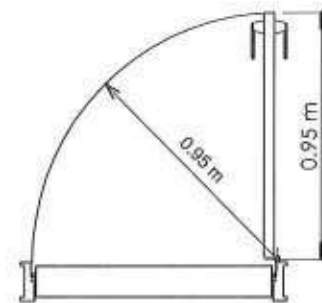
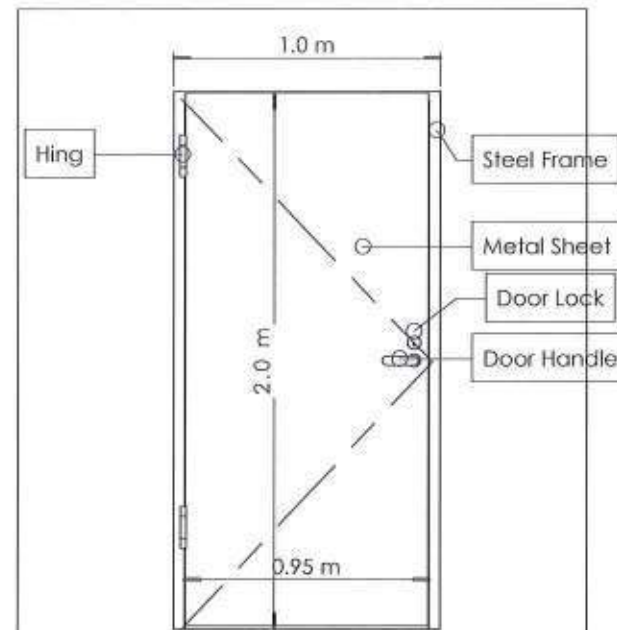
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Door and Windows Details

DATE : January 2022

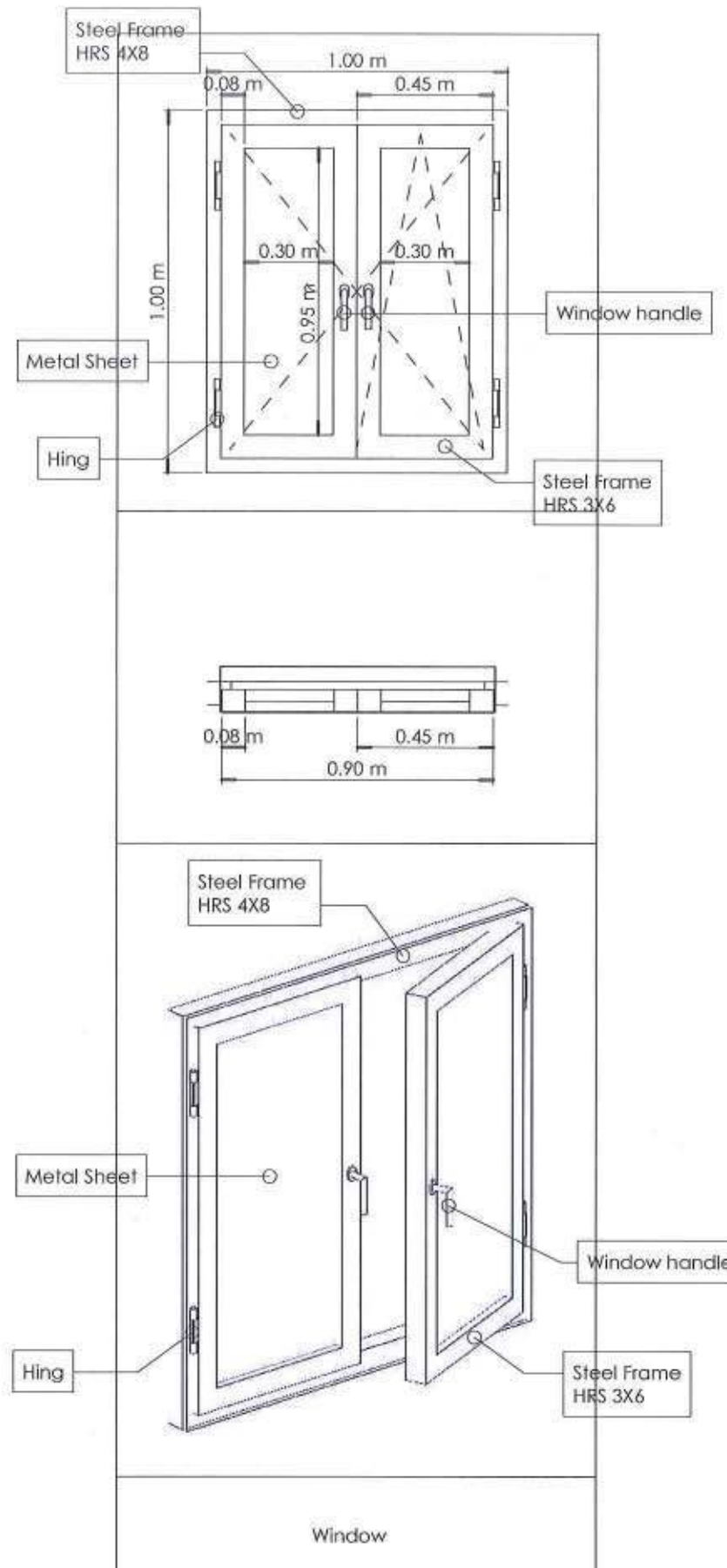
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A_13

SCALE :
As indicated





DOOR Details
1 : 20



WINDOWS Details
1 : 15



AICS-Italian Agency for Development
Cooperation - 30h
13 Project St. no 33 Amarat, House no 25
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PROGRAM TITLE :
T05-EUTF-HOA-SD-73-01

PROJECT TITLE :
HEALTH CENTER OF OTASH (NY06)

LOCATION :
SOUTH DARFUR NORTHERN NYALA

ARCHITECT :
ENG. IBRAHIM MOHAMMED IBRAHIM
STRUCTURAL ENGINEER
ENG. Designer
CHECKED BY :
ENG. AMRAN MOHAMMED OTHMAN

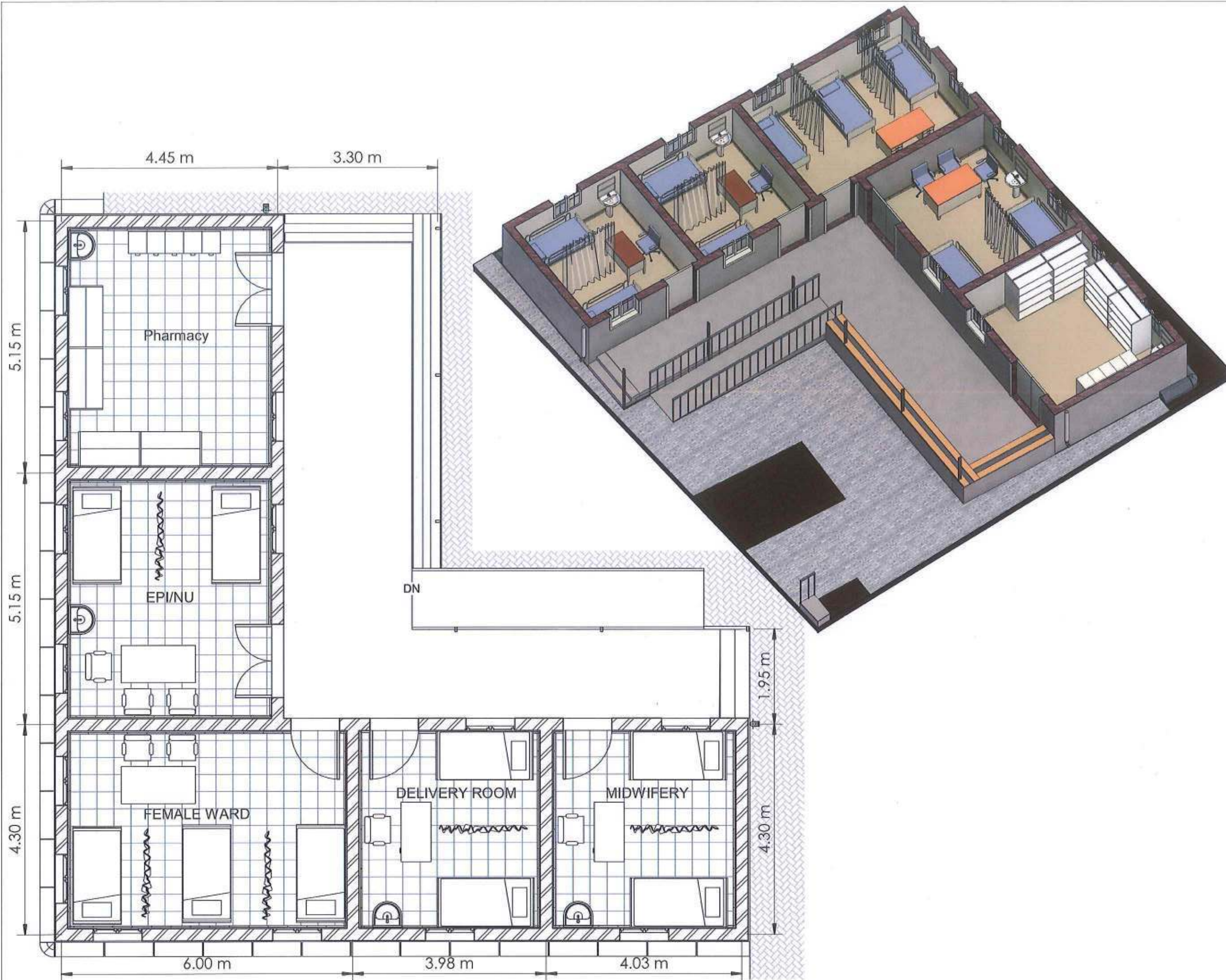
DRAWING TITLE :
Door and Windows Details

DATE : January 2022

INDEX :
A_13

SCALE :
As indicated





AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

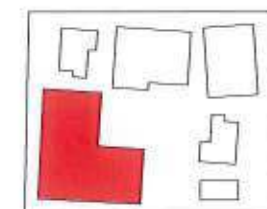
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+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN FURNITURE

DATE: January 2022

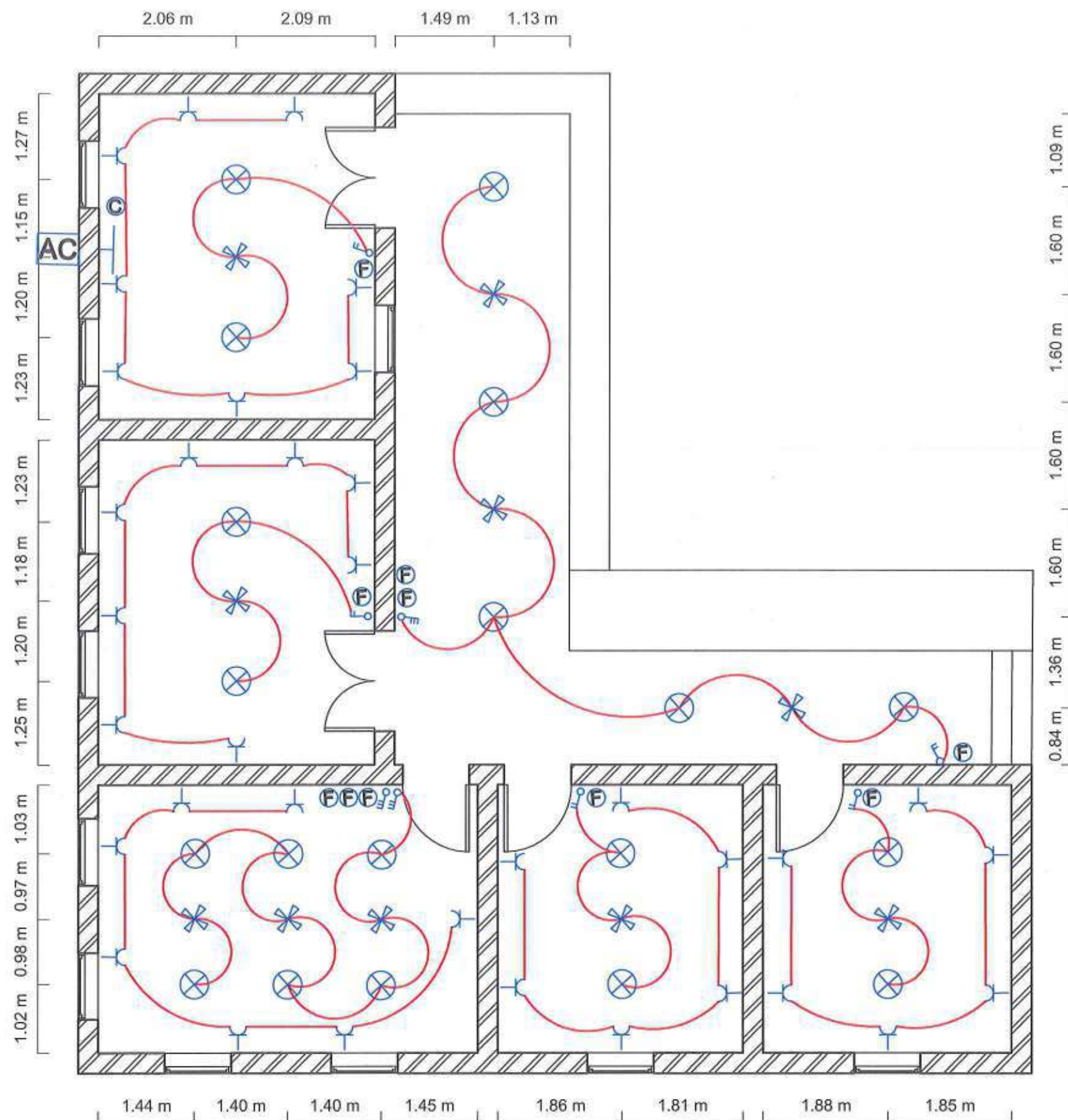
INDEX:

A_14

SCALE:

1:70





1 BLOCK A
1 : 70

DESCRIPTION

	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	SOCKET OUTLET POINT
	FAN SWITCH
	CEILING LAMP
	CEILING FAN
	AIR CONDITIONER 24000 BTU
	AC SWITCH 45 AMP



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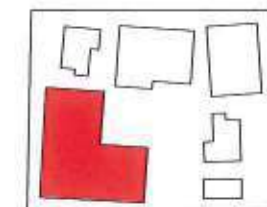
Al-Amarat Mohamed Najeeb Street, Khartoum

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DOUBLE DTC ENGINEERING



PROGRAM TITLE:

T05-EUF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NYD6)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:

ENG. MOHAMMED SALAH ALAMIR

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

BLOCK A ELECTRICAL LAYOUT

DATE: JANUARY 2022

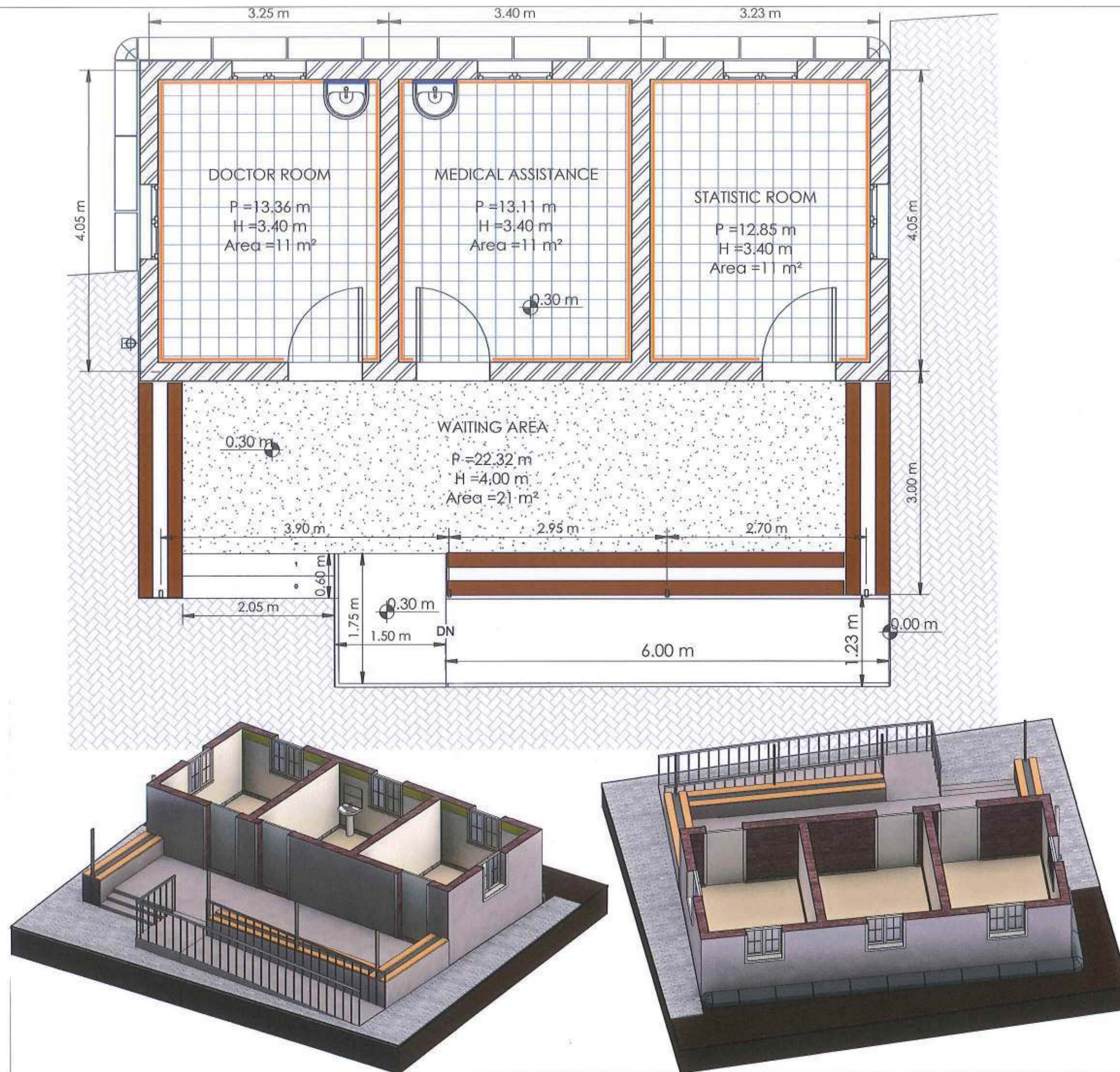
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A.15

SCALE:

1 : 70





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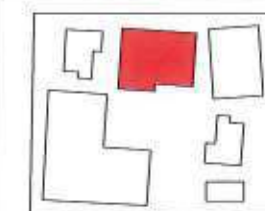
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DOUBLE DTC ENGINEERING



Legend

	New Internal flooring (40x40cm) Ceramic tiles (40x40cm)
	Screed cement flooring
	Existing ceramic H=10cm
	Wall ceramic tiles (15x15cm)
	New building
	Wooden floors

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NUALA

ARCHITECTURAL ENGINEER:

ENG. BRAHIM MOHAMMED ABRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN

DATE: January 2022

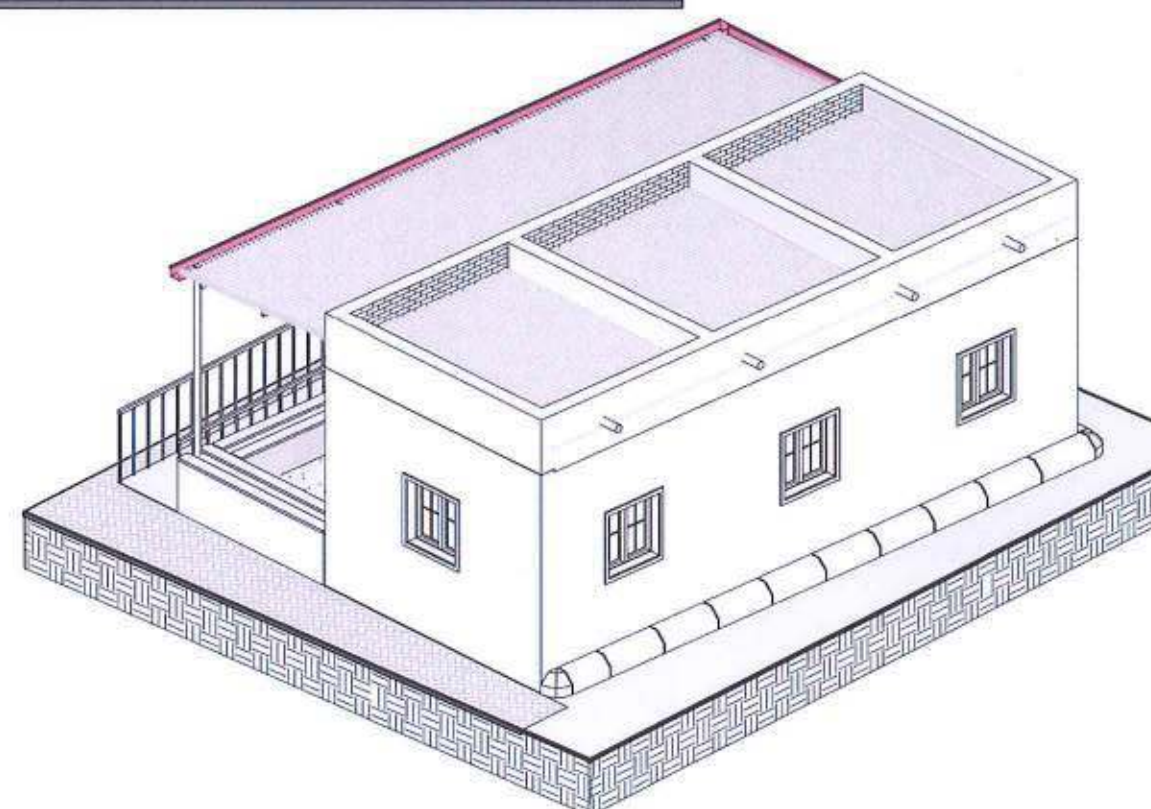
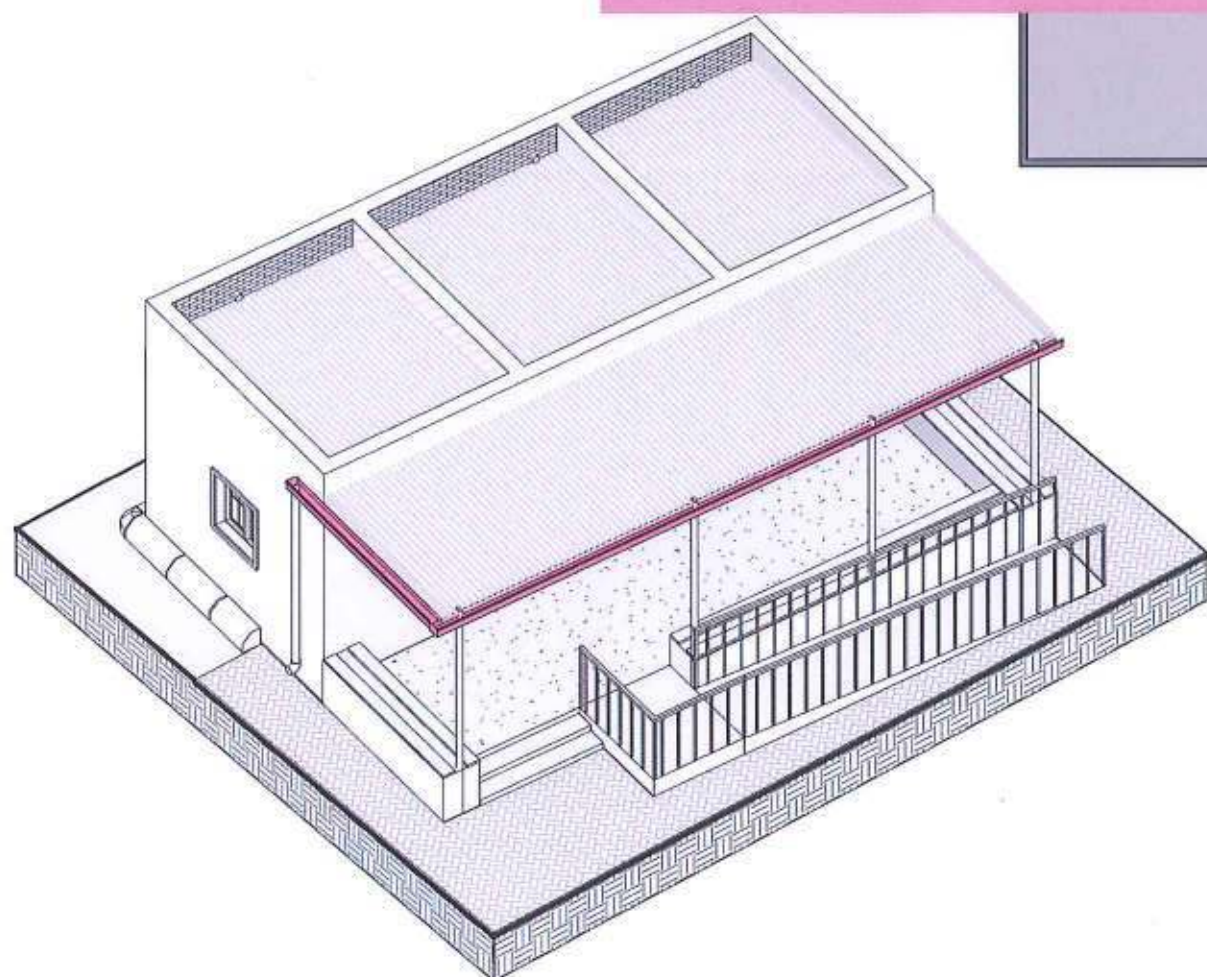
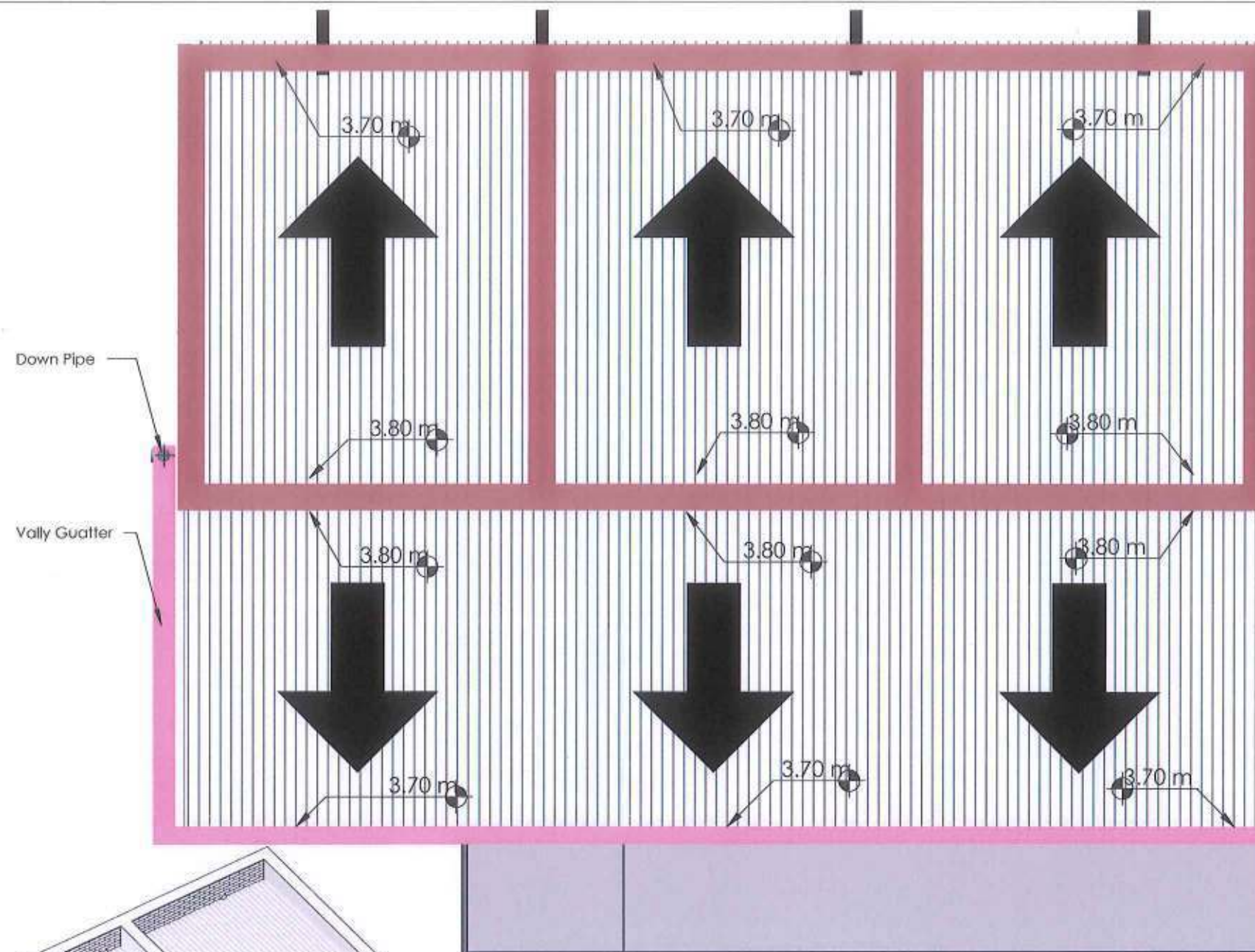
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B_01

SCALE:

1 : 50





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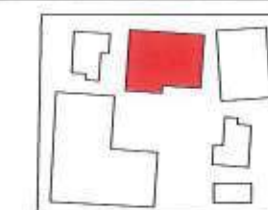
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+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN SUDAN

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

ROOF PLAN

DATE: January 2022

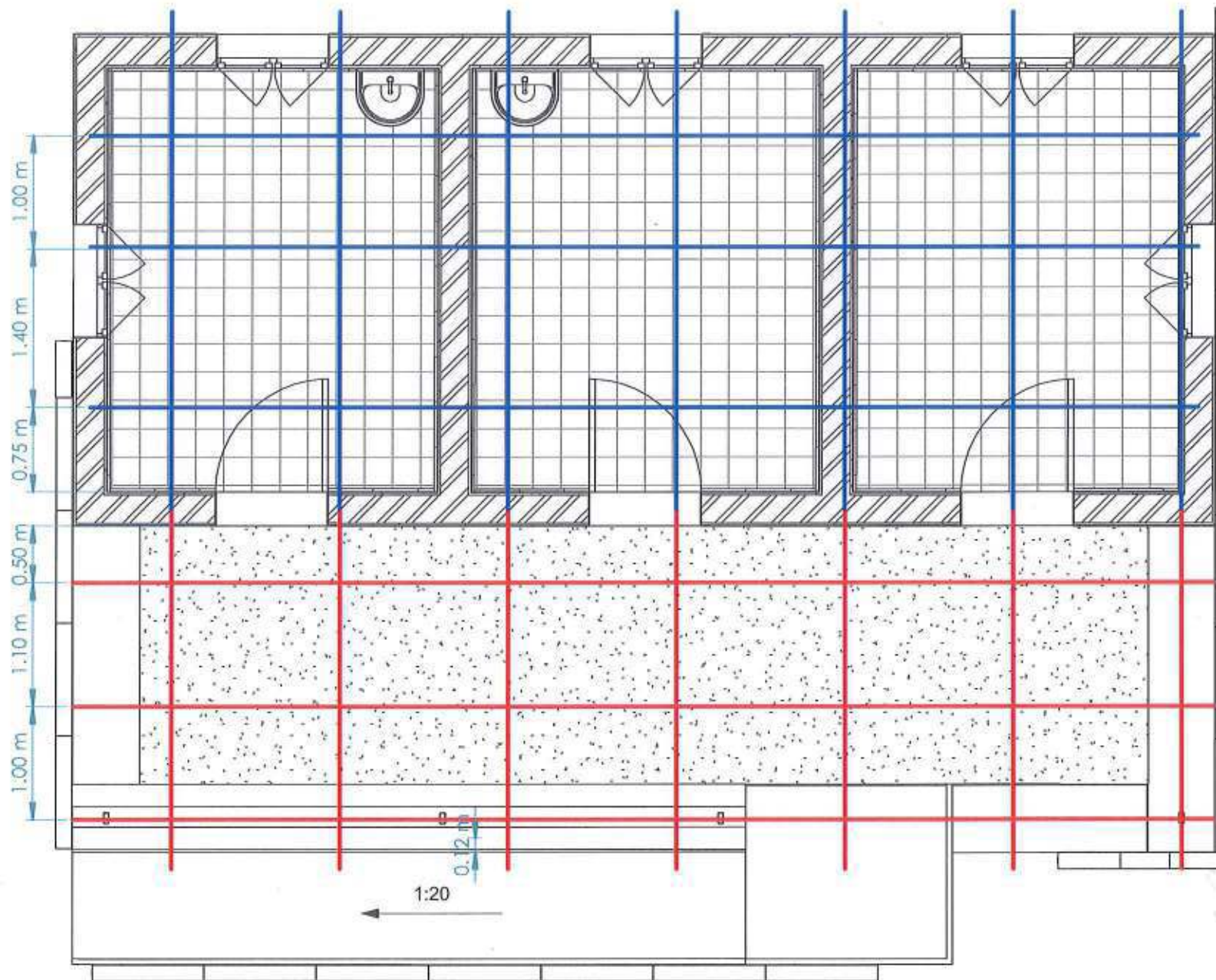
INDEX:

B_02

SCALE:

1: 50





1 BLOCK B Roof Structure
Plan
1:50



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+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Roof Structure Plan

DATE: January 2022

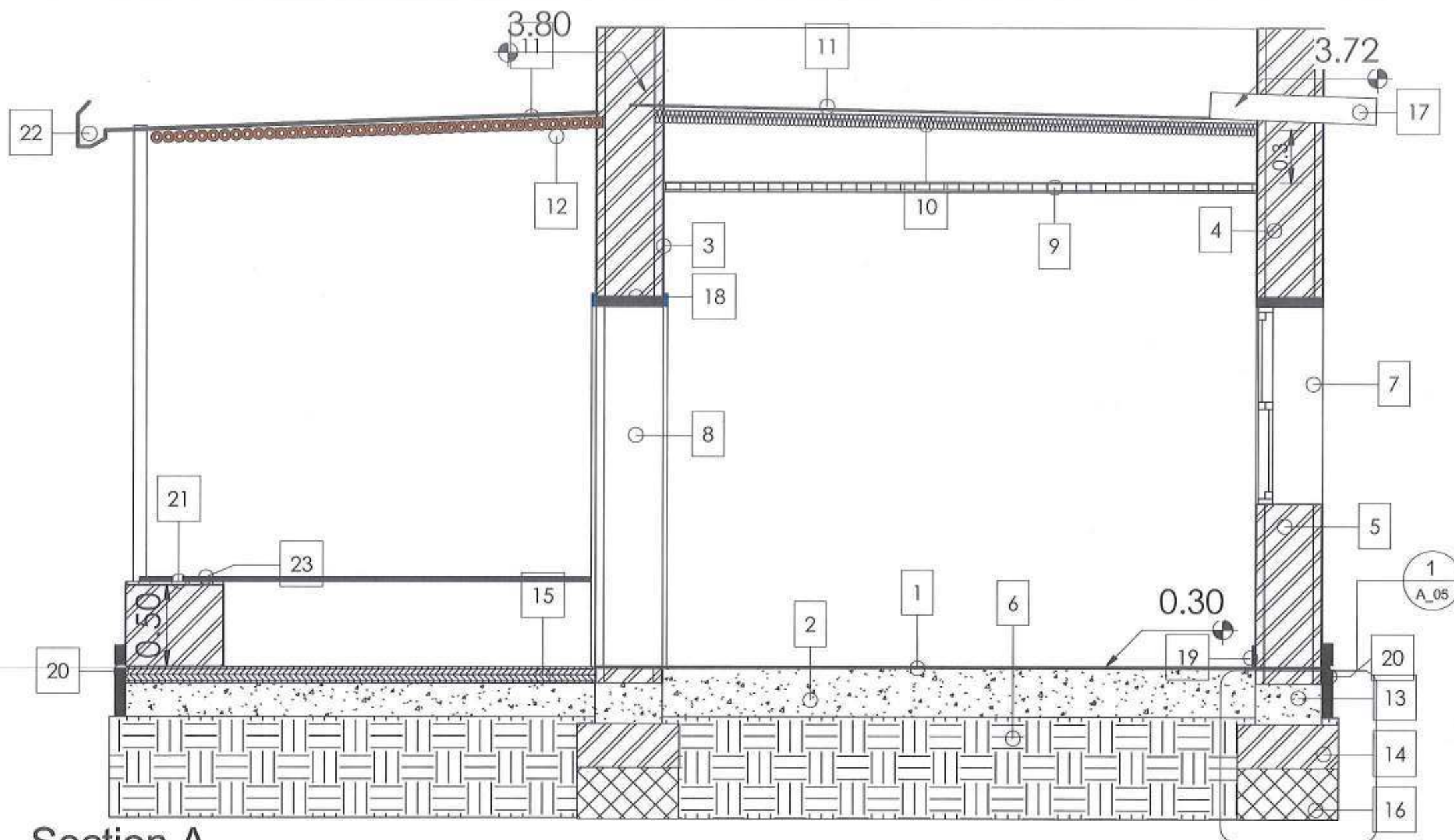
INDEX:

B_03

SCALE:

1:50





Section A

1 : 30

1	Tiles (internal ceramic)	8	Door	15	Concrete Floor	22	Galvanized Gutter
2	Reinforced Concrete(C20)	9	False Ceiling	16	Rock Foundation	23	Wodden Planks
3	Paint	10	Insulation Layre	17	PVC Pipe	17	
4	Screed	11	Steel Sheet (Zinc)	18	Lintel Beam	18	
5	Wall	12	Bambo	19	Skerting Tiles	19	
6	Compacted Soil	13	Grade Beam	20	Curbstone	20	
7	Window	14	Wall 40 cm (Gasa)	21	Plaster	21	



AICS-Italian Agency for Development
Cooperation - SDN
13 Project SL no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

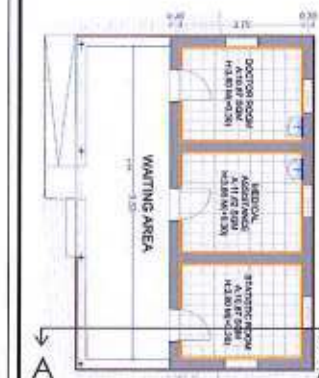
Al-Amarat Mohamed Hajeab Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



PROGRAM TITLE:
T05-EUTF-HOA-SD-73-01

PROJECT TITLE:
HEALTH CENTER GIZASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
Roof Section

DATE: January 2022

INDEX:
B_04

SCALE:
1 : 30

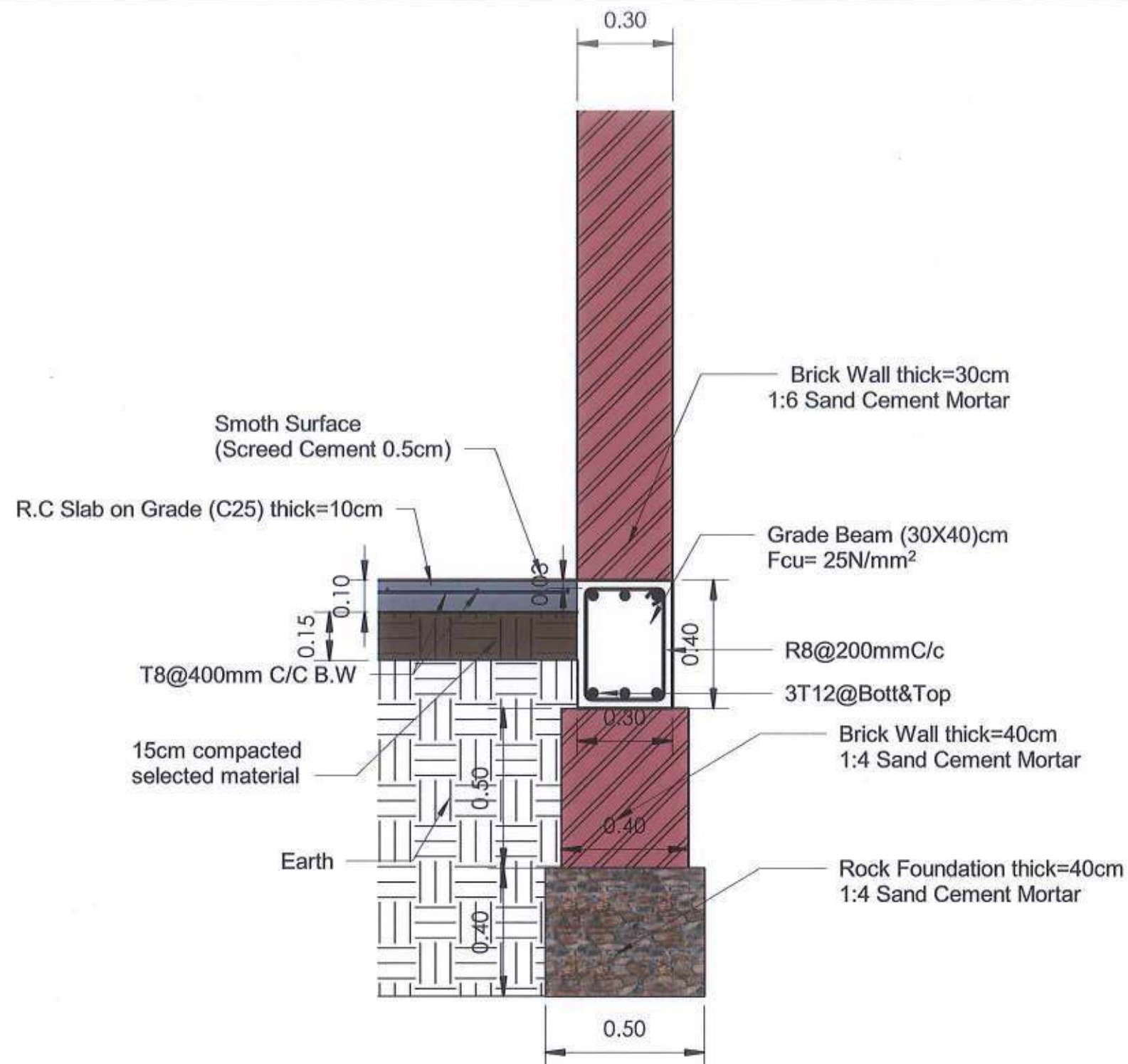


0.30

H

4T12

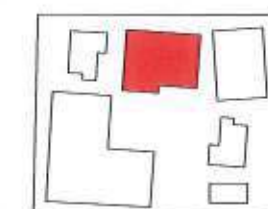
H = 15cm for opening width > 1 m



1 **Callout B**
1 : 15



DOUBLE QTC ENGINEERING



Legend

	ally gutter
	volden/bomby stija
	steel column 1005 cm
	wooden floor
	Cutstone
	inter lock

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

ELEVATIONS

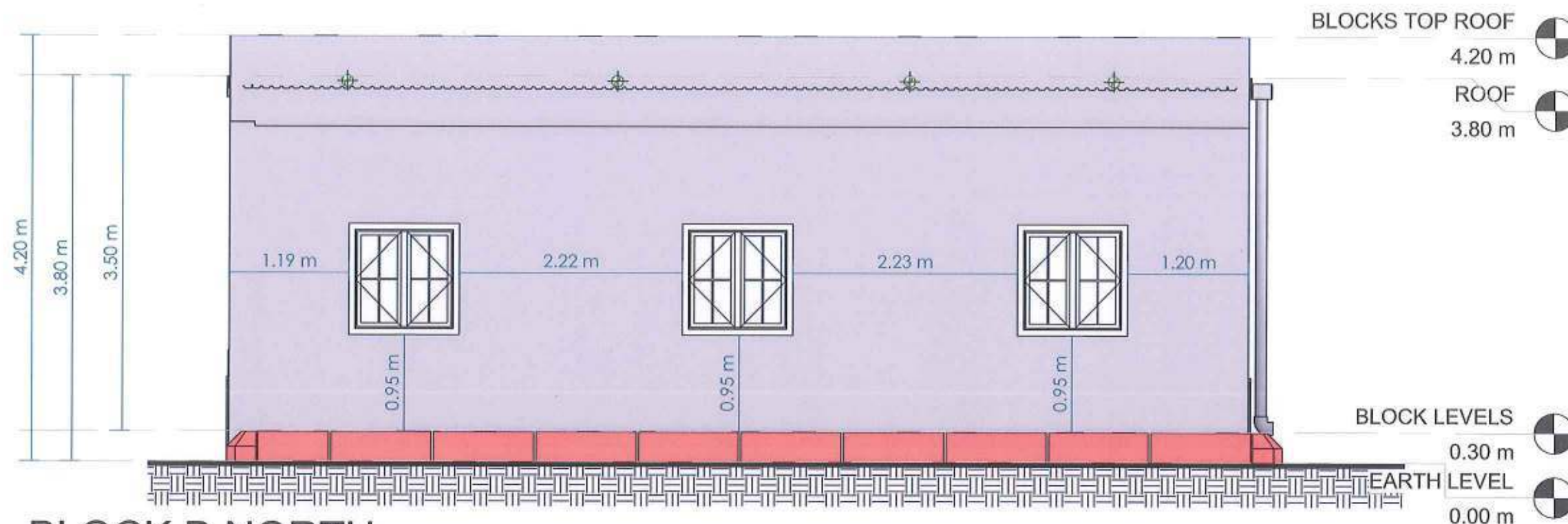
DATE: January 2022

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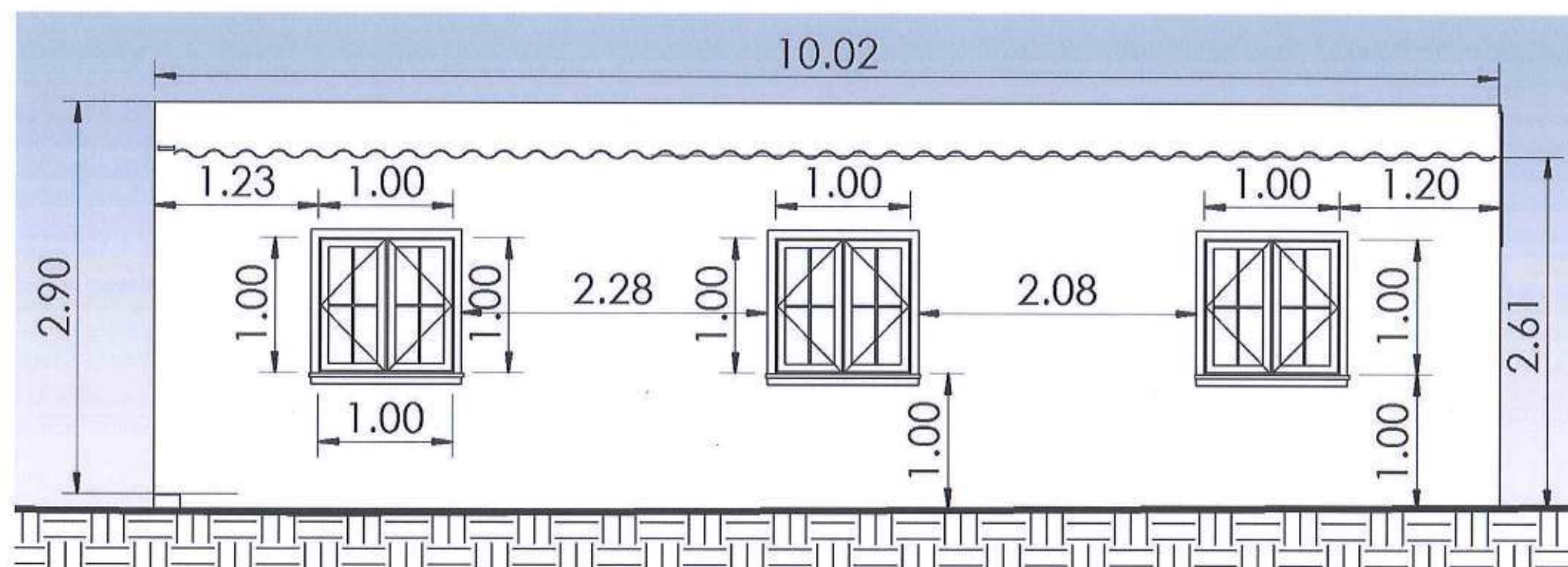
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SCALE:

1 : 50



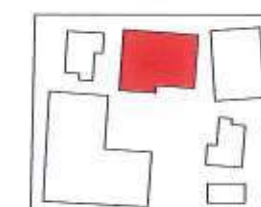
**BLOCK B NORTH
ELEVATION AFTER**
1 : 50



North Elevation Before



DOUBLE DTC ENGINEERING



Legend

	poly gutter
	wooden bamboo sticks
	steel column 1085 cm
	wooden flange
	Cutstone
	water lock

PROGRAM TITLE:
T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)

LOCATION:
SOUTH DARFUR NORTHERN NYALA

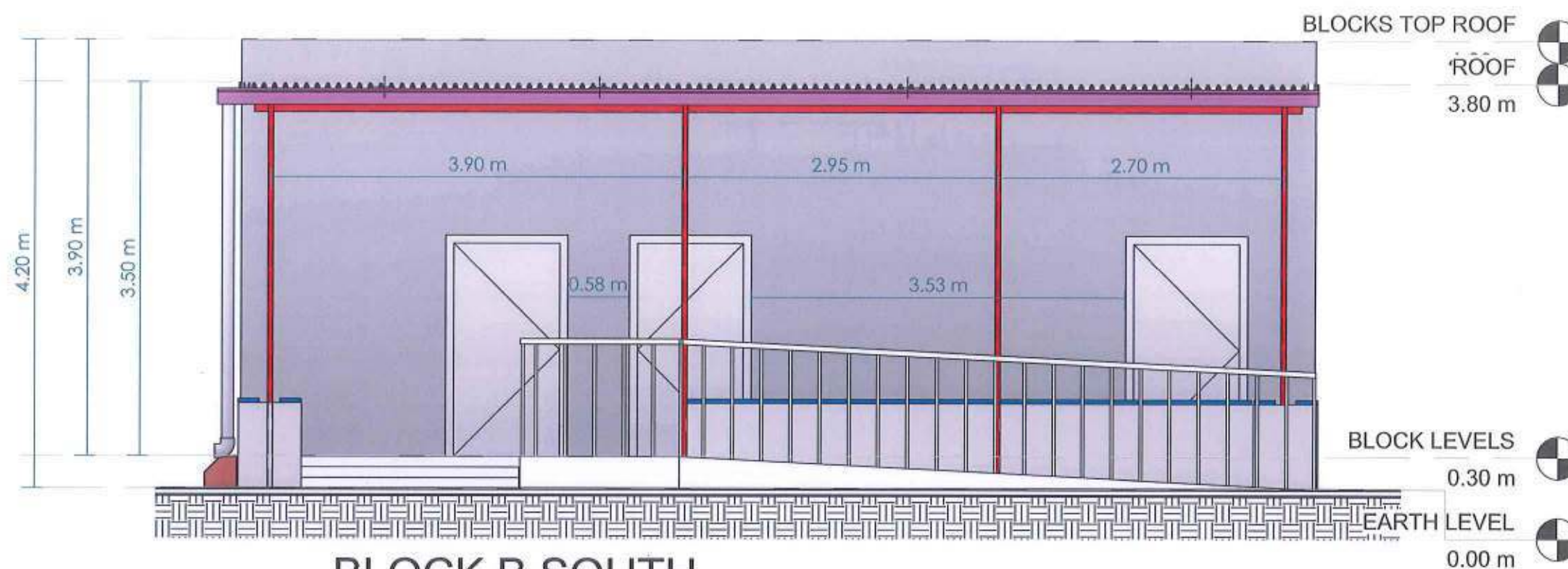
ARCHITECTURAL ENGINEER:
ENG. BRAHIM MOHAMMED IBRAHIM

CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

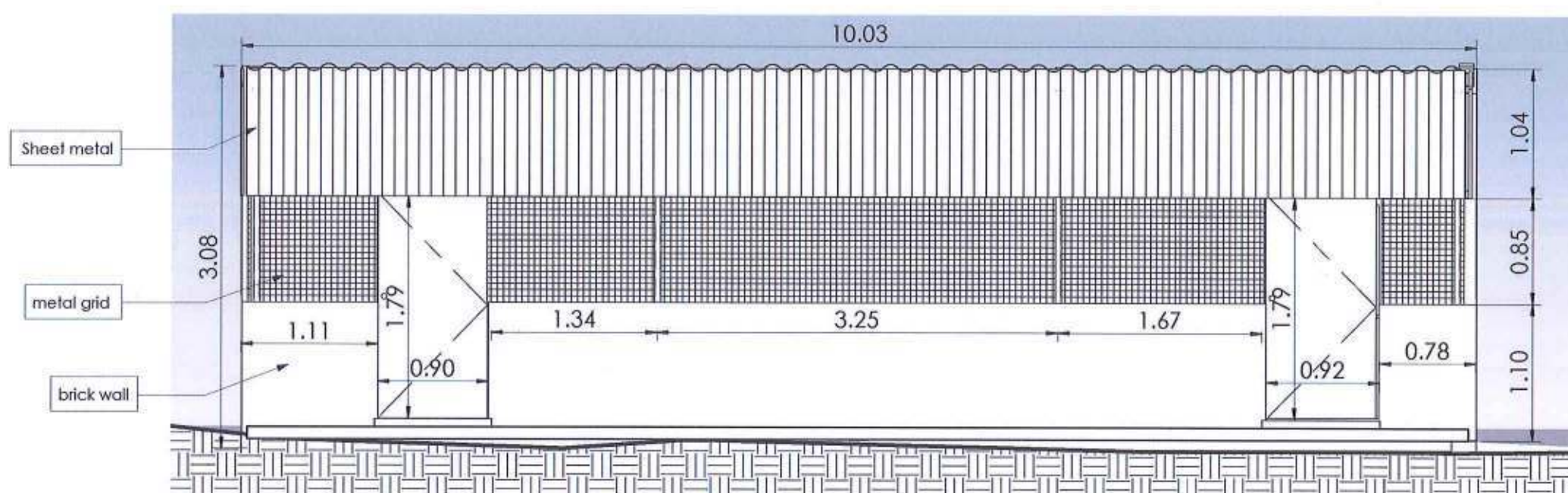
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ELEVATIONS

DATE: January 2022

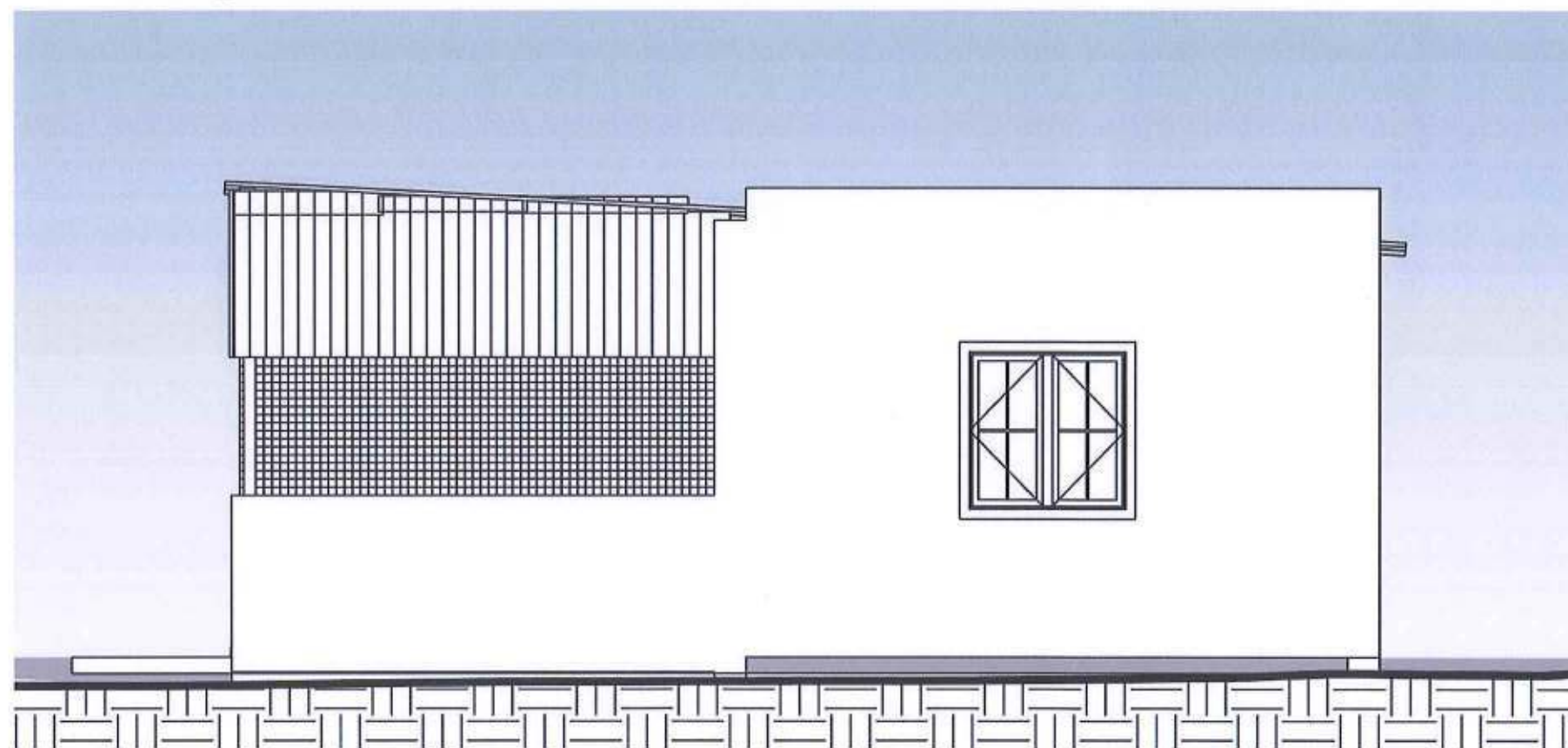
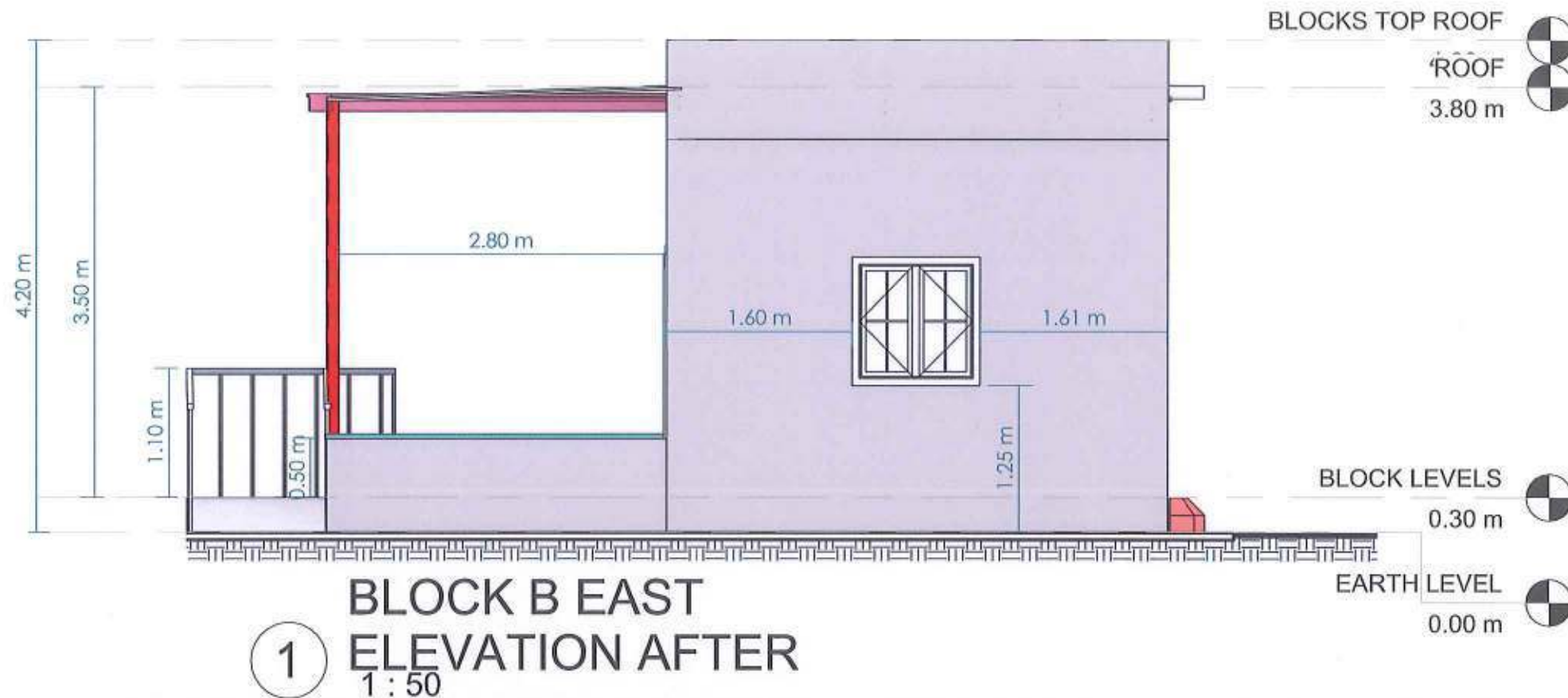
INDEX: B_07 SCALE: 1:50



2 BLOCK B SOUTH
ELEVATION AFTER
1:50



South Elevation Before



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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

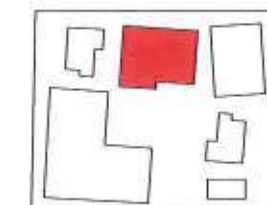
AL-Amarat Mohamed Najeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



Legend	
	roly gutter
	wooden bombe stick
	steel column 10x5 cm
	Wooden Planks
	Cut stone
	river rock

PROGRAM TITLE:
T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)

LOCATION:
SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

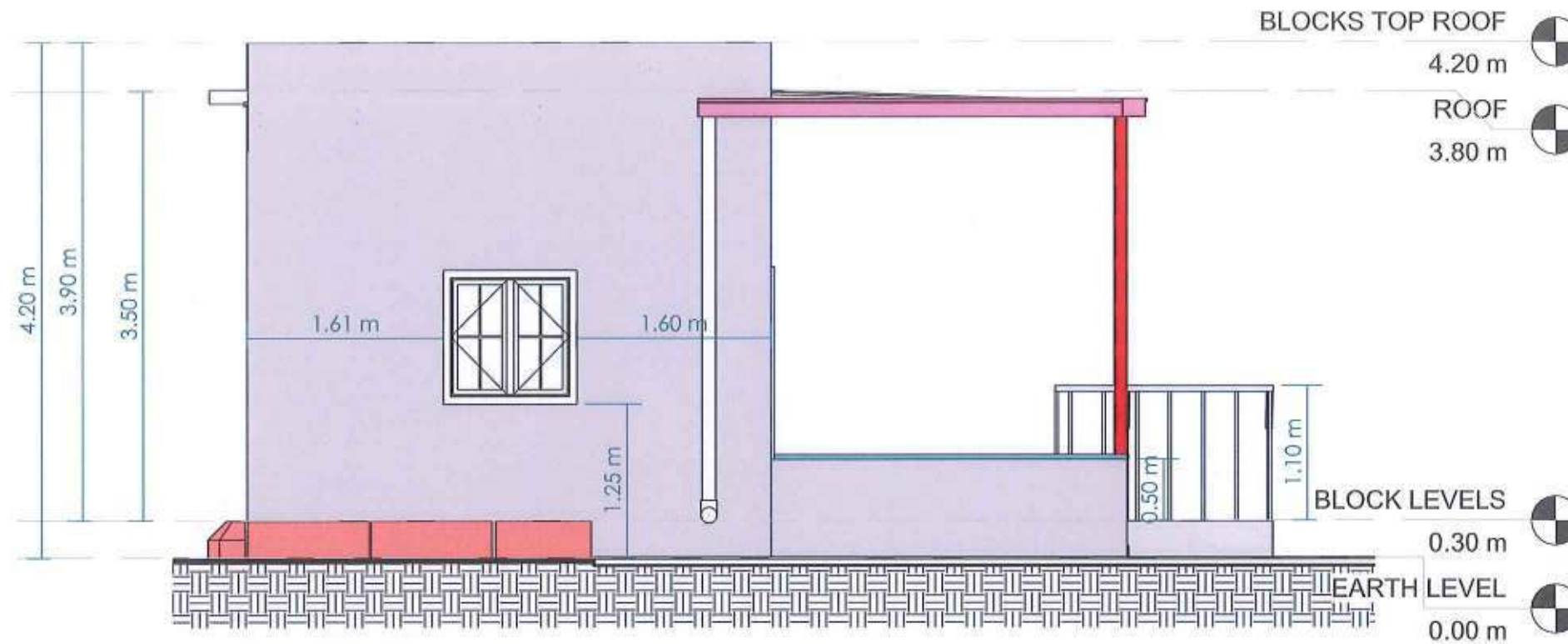
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ENG. AMRAN MOHAMMED OTHMAN

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ELEVATIONS

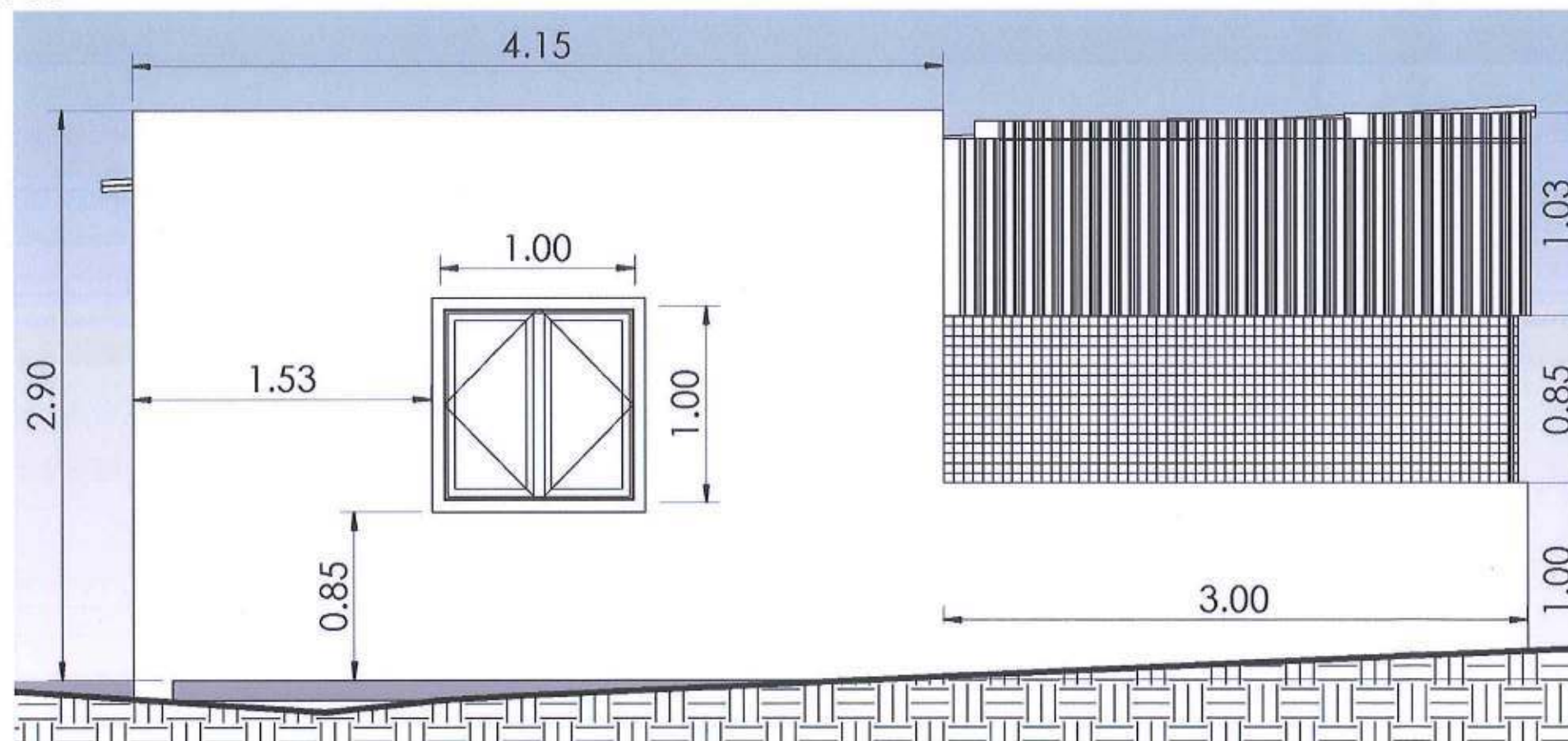
DATE: January 2022

INDEX: SCALE:
B_08 1:50





1 BLOCK B WEST ELEVATION AFTER 1:50



West Elevation Before

AGENZIA ITALIANA
PER LA COOPERAZIONE
ALLO SVILUPPO

AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum
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+249115418666
EMAIL: DQTC.ENGINEERING@GMAIL.COM

DOUBLE DTC ENGINEERING

Legend

- solid gutter
- wooden bamboo sticks
- steel column 10x5 cm
- wooden floors
- cutstone
- inter lock

PROGRAM TITLE:
T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)

LOCATION:
SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

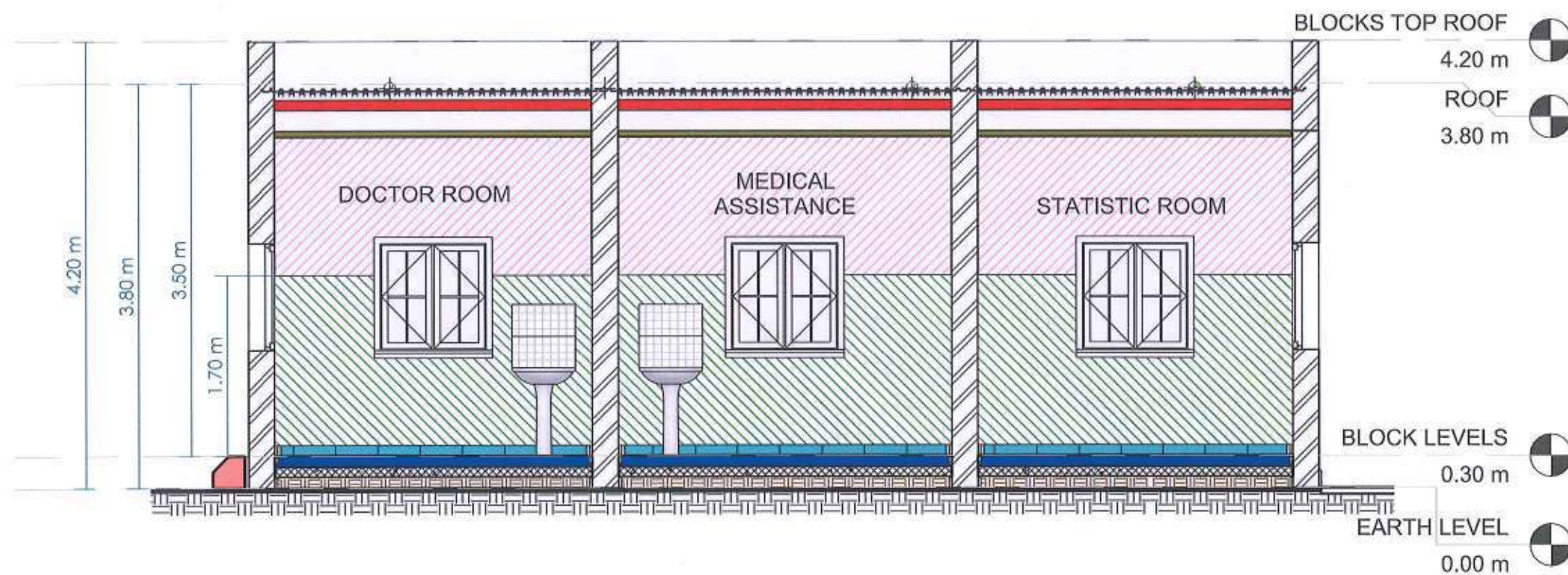
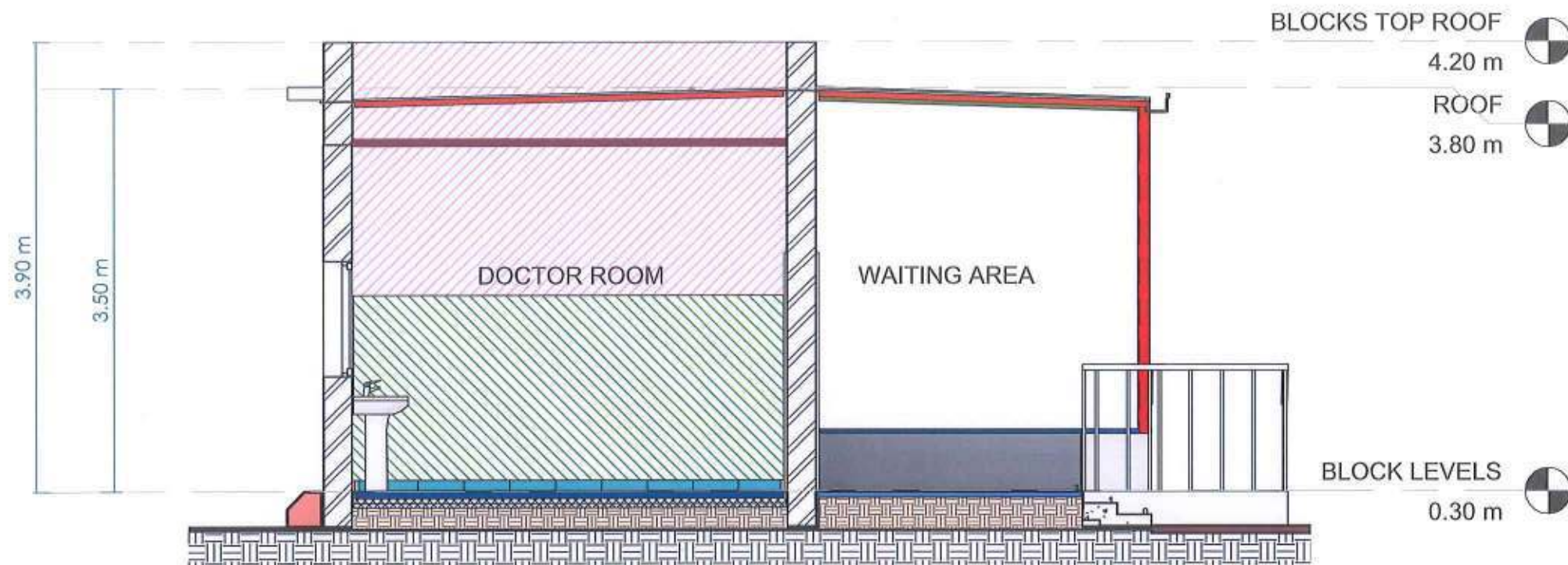
CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
ELEVATIONS

DATE: January 2022

INDEX: B_09

SCALE: 1:50



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Cooperation - SDN
13 Project St, no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

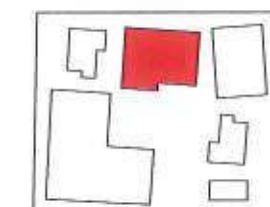
Al-Amarat Mohamed Najeeb Street, Khartoum

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DOUBLE DTC ENGINEERING



Legend

	Steel column 10x15 cm
	False ceiling
	Emulsion paint (Internal) from 1.20m up to ceiling
	Glass oil paint (Internal) from floor up to 1.20m
	Wall tile 15x15
	Skirting tile 40x10
	Floor tile 40x40
	Reinforced Concrete Floor
	Compacted Soil
	Rain Drain Pipe

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED BRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

SECTIONS

DATE: January 2022

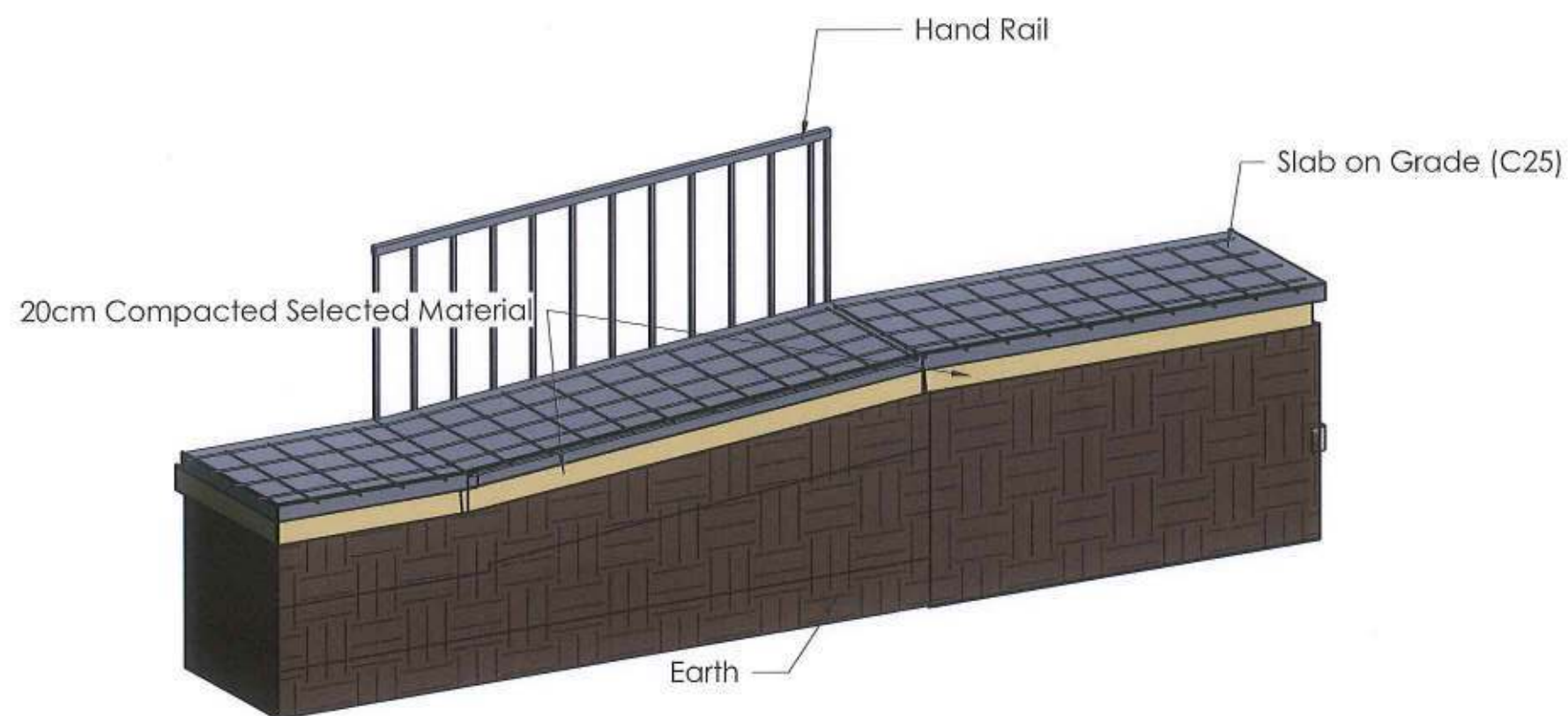
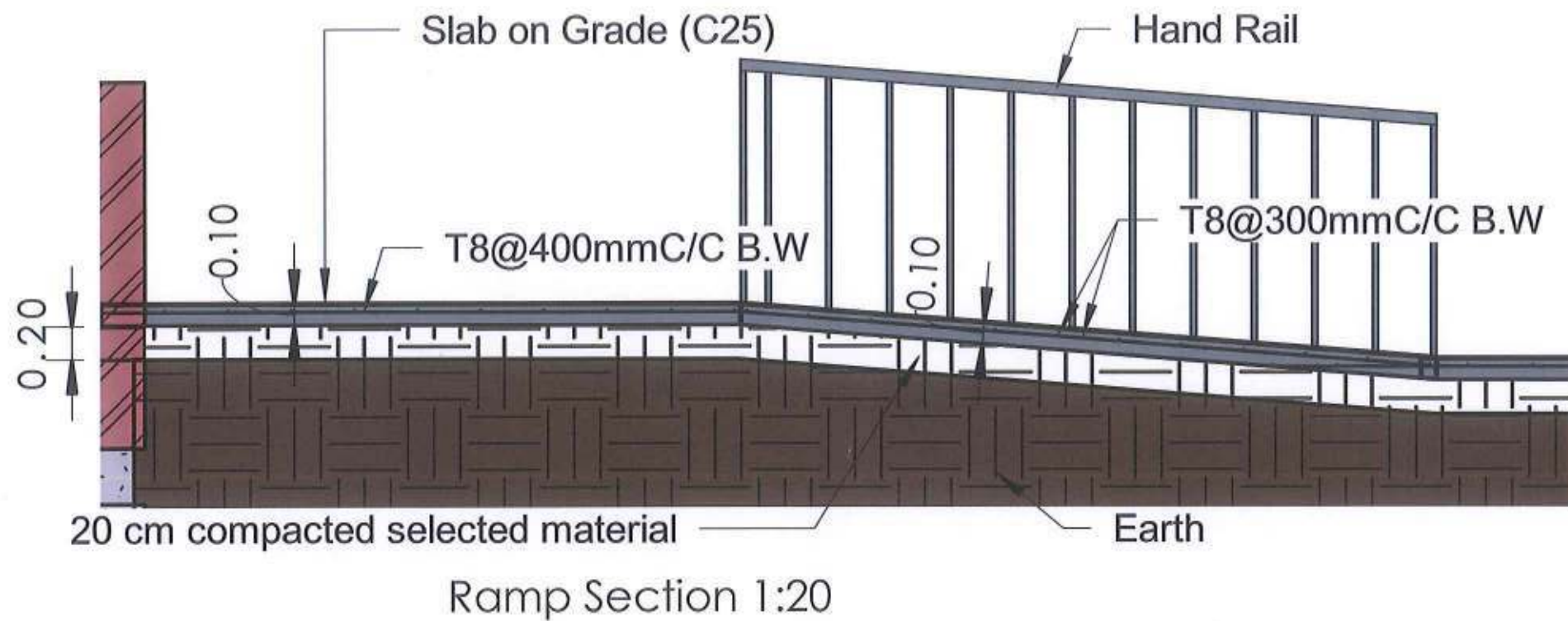
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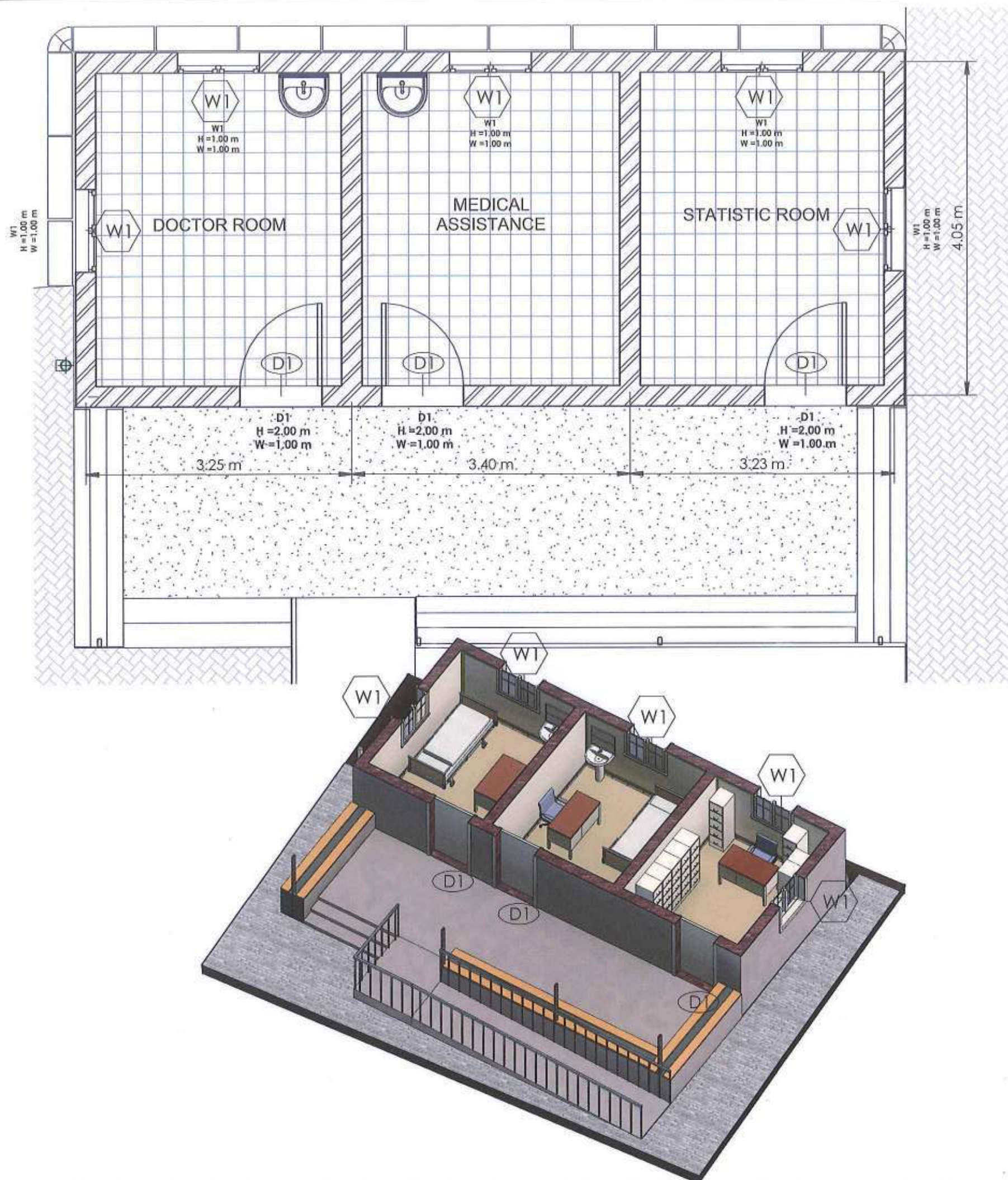
SCALE:

1:50





AICS-Italian Agency for Development Cooperation - SDN 13 Project St. no 33 Amarat, House no 25 Block 12 K-east Khartoum, SUDAN		
Al-Amarat Mohamed Najeeb Street, Khartoum TEL: +249925451234 +249115418666 EMAIL: DQTC.ENGINEERING@GMAIL.COM		
PROGRAM TITLE: T05-EUTF-HOA-SD-73-01		
PROJECT TITLE: HEALTH CENTER OF OTASH (NY06)		
LOCATION: SOUTH DARFUR Northern Nyala		
STRUCTURAL ENGINEER: ENG. IBRAHIM MOHAMMED IBRAHIM		
CHECKED BY: ENG. AMRAN MOHAMMED OTHMAN		
DRAWING TITLE: Ramp Section and 3D		
DATE: January 2022		
INDEX:	SCALE:	
B_11		



AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

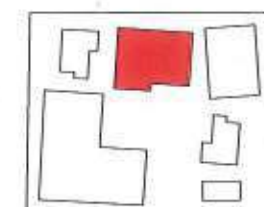
AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



Door Schedule BLOCK B

Type	Width	Height
D1	1.00 m	2.00 m

Window Schedule BLOCK B

Type	Width	Height
W1	1.00 m	1.00 m

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN Doors &
Windows

DATE: January 2022

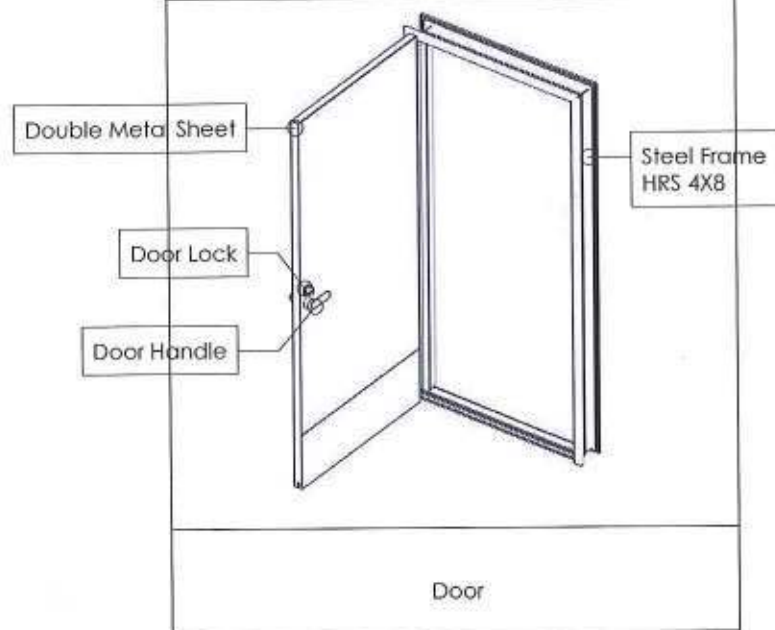
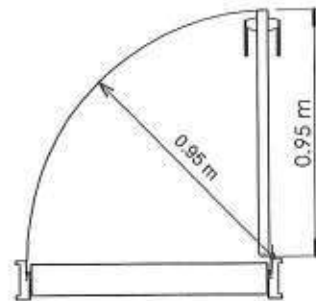
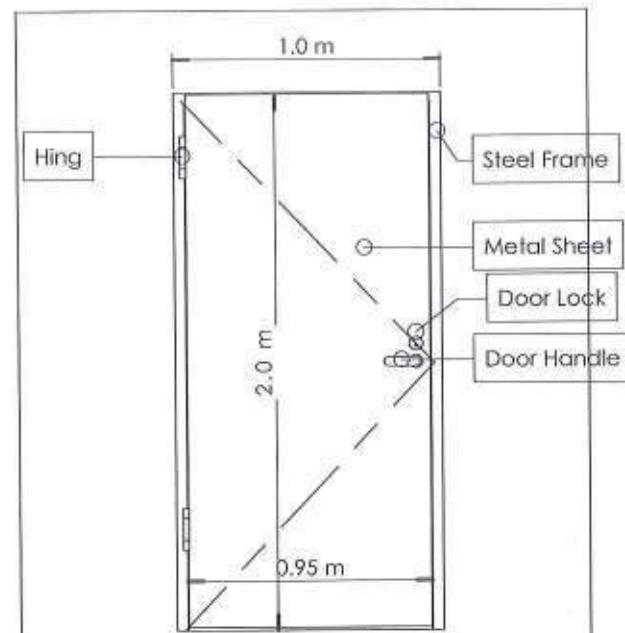
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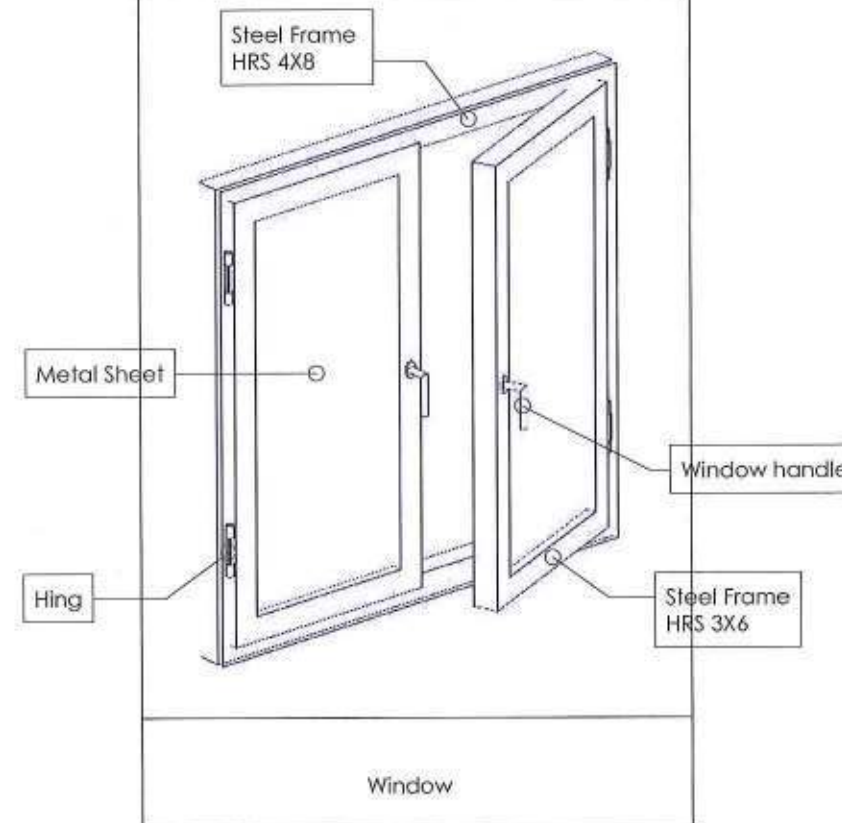
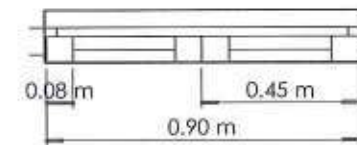
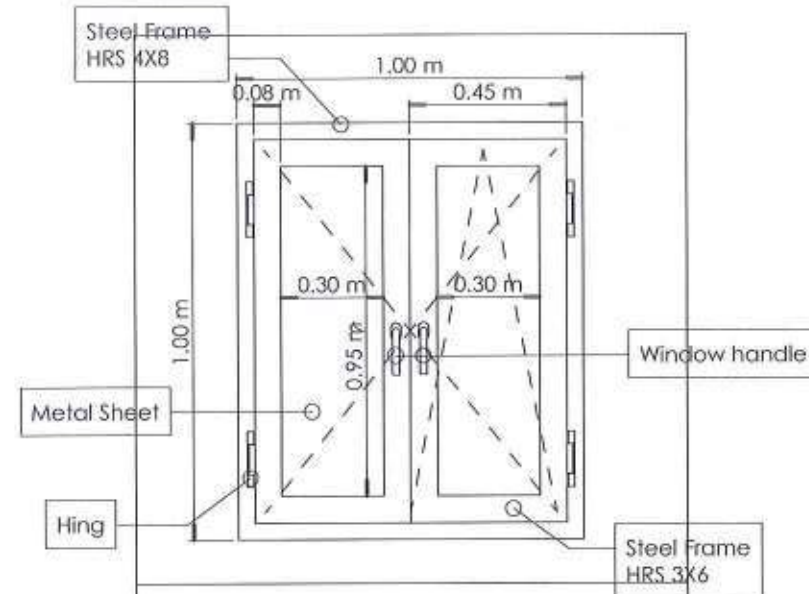
SCALE:

1:50





DOOR Details
1 : 20



WINDOWS Details
1 : 15

PROGRAM TITLE :
 TOS-EUTF-HOA-SD-73-01

PROJECT TITLE :
 HEALTH CENTER OF OTASH (NY06)

LOCATION :
 SOUTH DARFUR NORTHERN NYALA

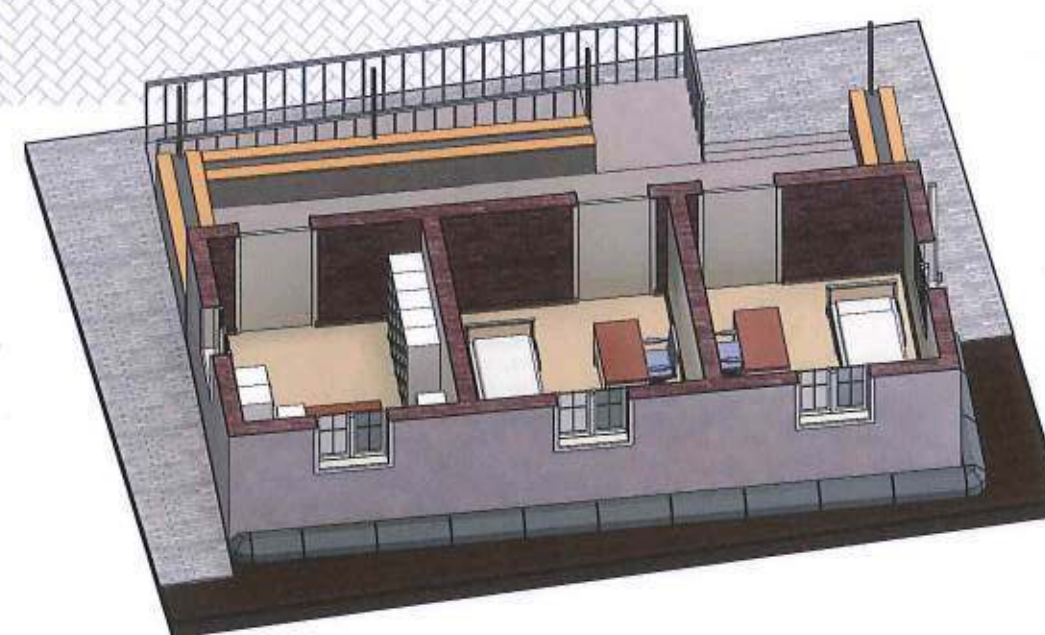
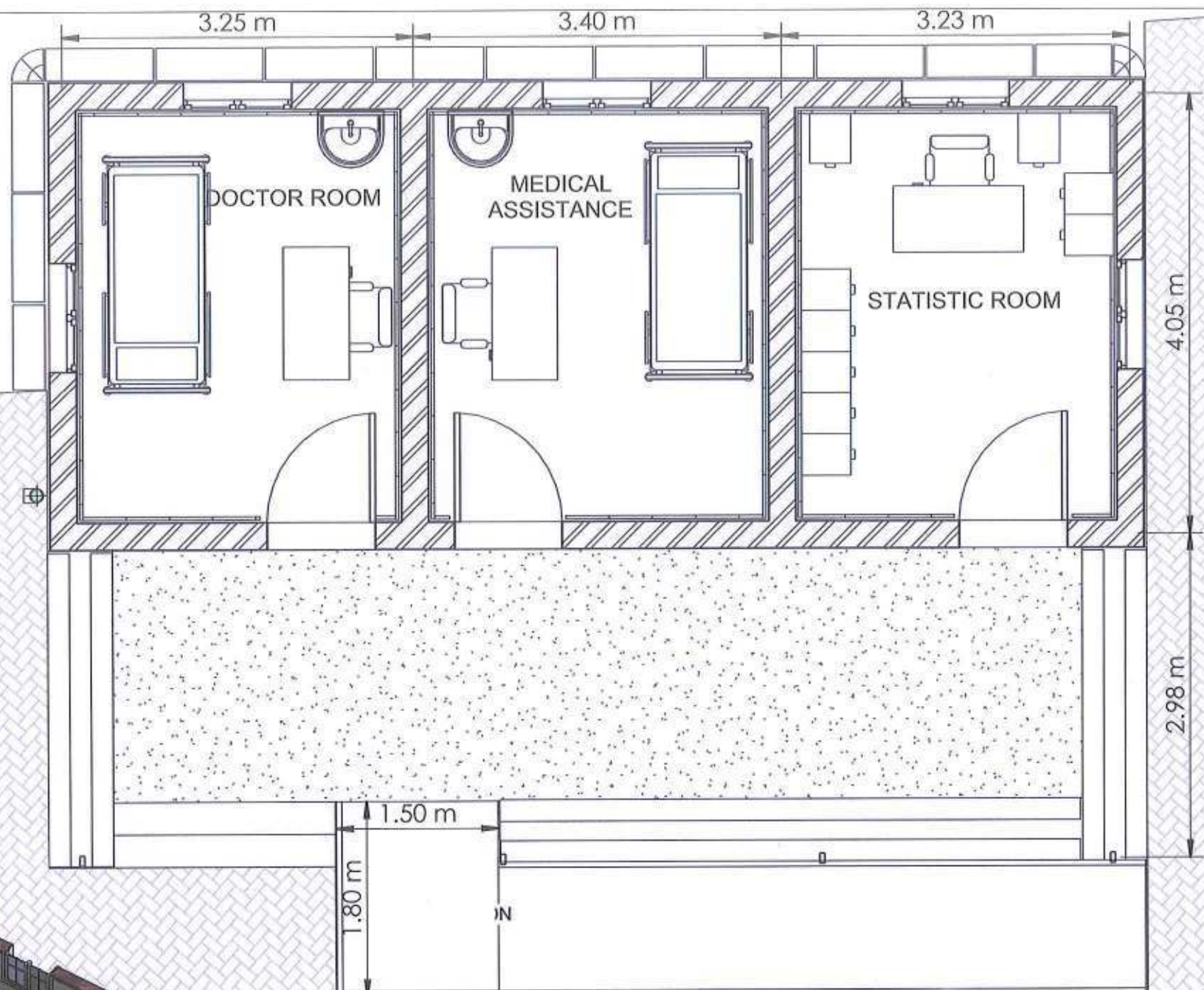
ARCHITECT :
 ENG. IBRAHIM MOHAMMED IBRAHIM
 STRUCTURAL ENGINEER :
 ENG. Designer
 CHECKED BY :
 ENG. AMRAN MOHAMMED OTMAN

DRAWING TITLE :
 Door and Windows Details

DATE : January 2022

INDEX :
 B_13





AICS-Italian Agency for Development
Cooperation - SDN
13 Project SI, no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

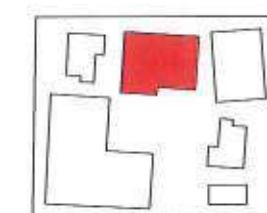
Al-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY08)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN FURNITURE

DATE: January 2022

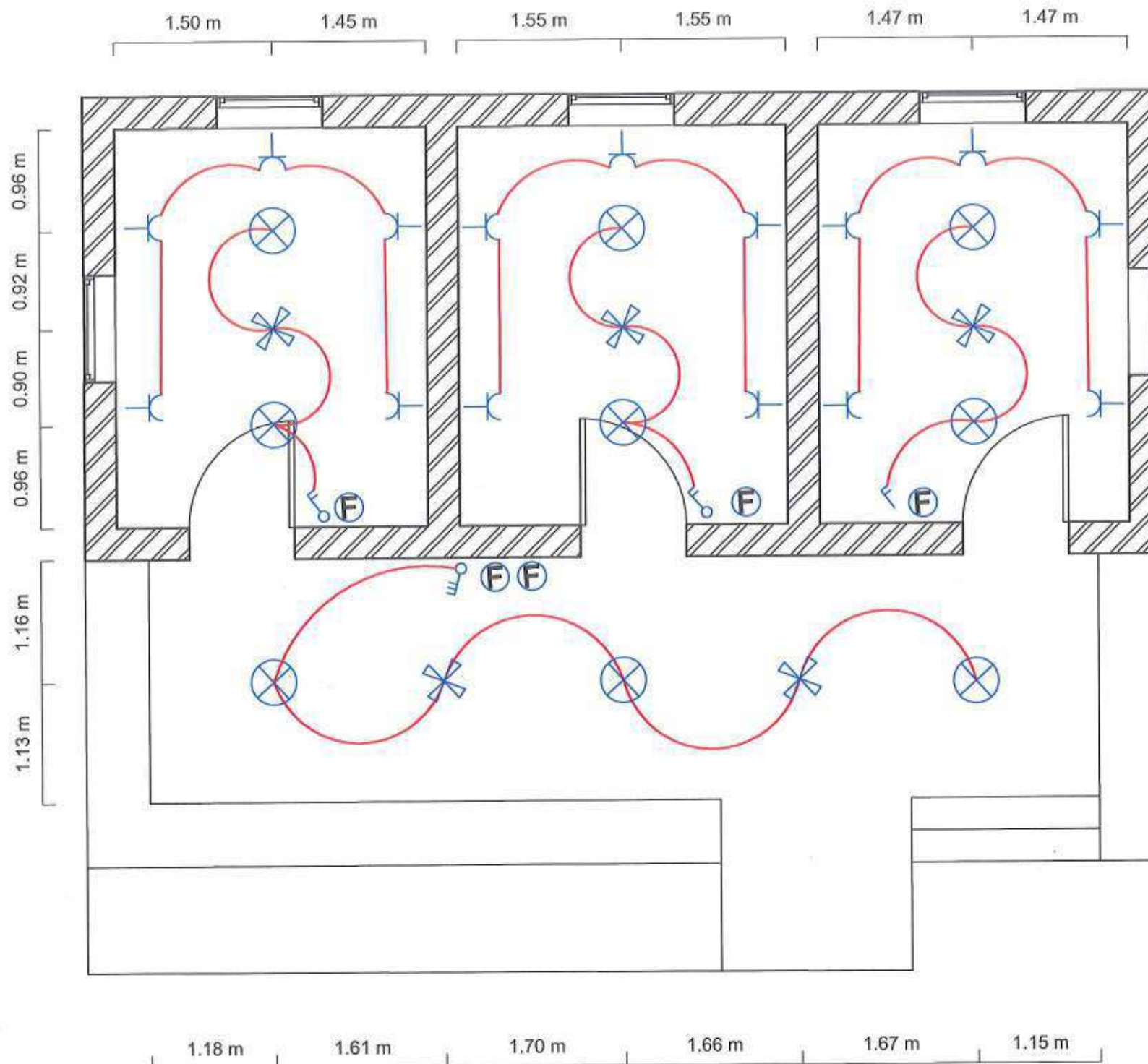
INDEX:

B_14

SCALE:

1 : 50





DESCRIPTION

	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	SOCKET OUTLET POINT
	FAN SWITCH
	CEILING LAMP
	CEILING FAN

1

BLOCK B

1 : 50

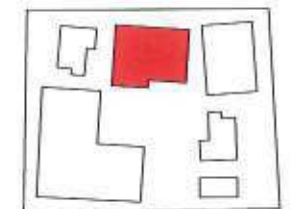


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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:

T05-EUF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:

ENG. MOHAMMED SAUDH ADAMIR

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

BLOCK B ELECTRICAL LAYOUT

DATE: JANUARY 2022

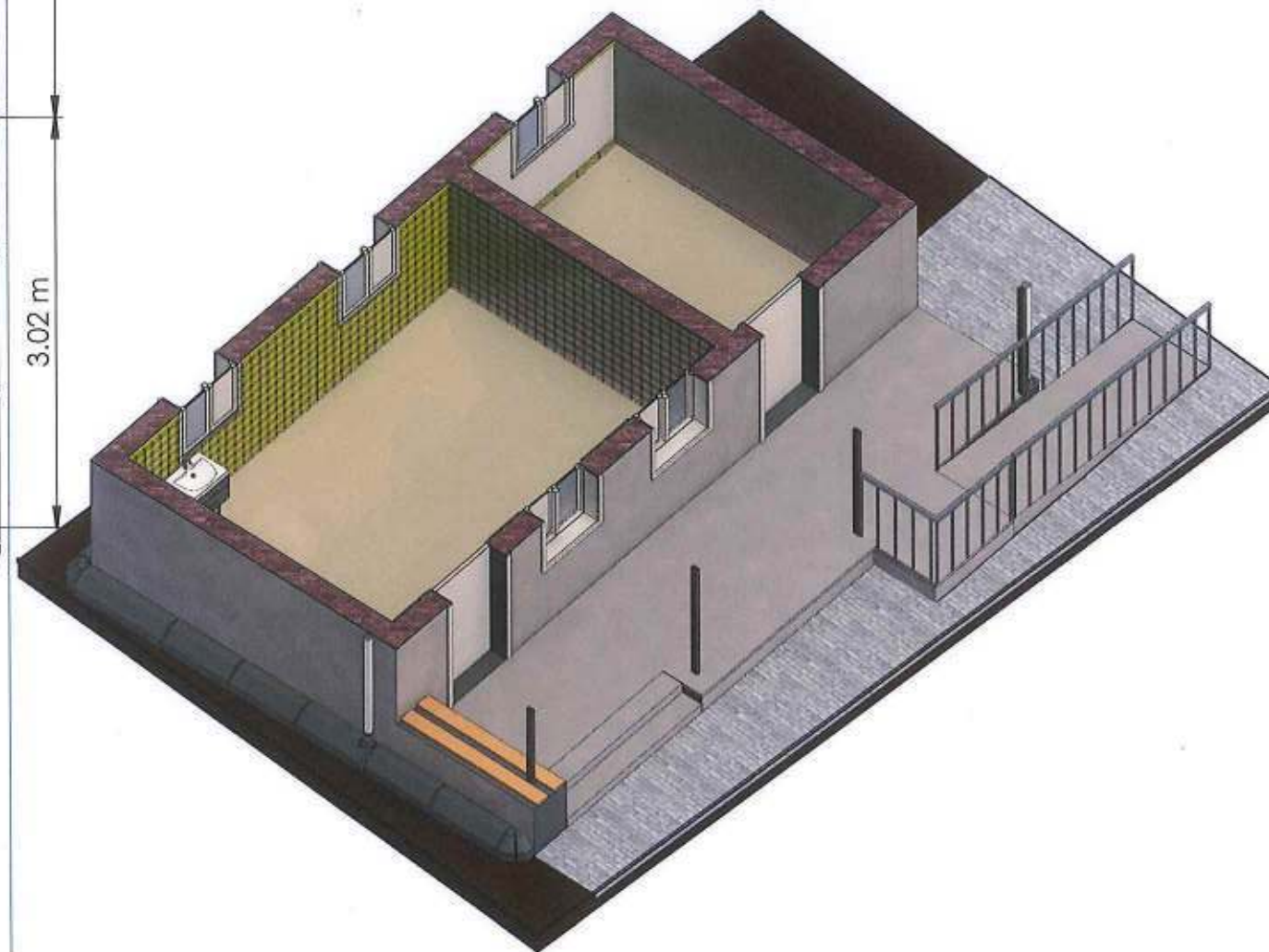
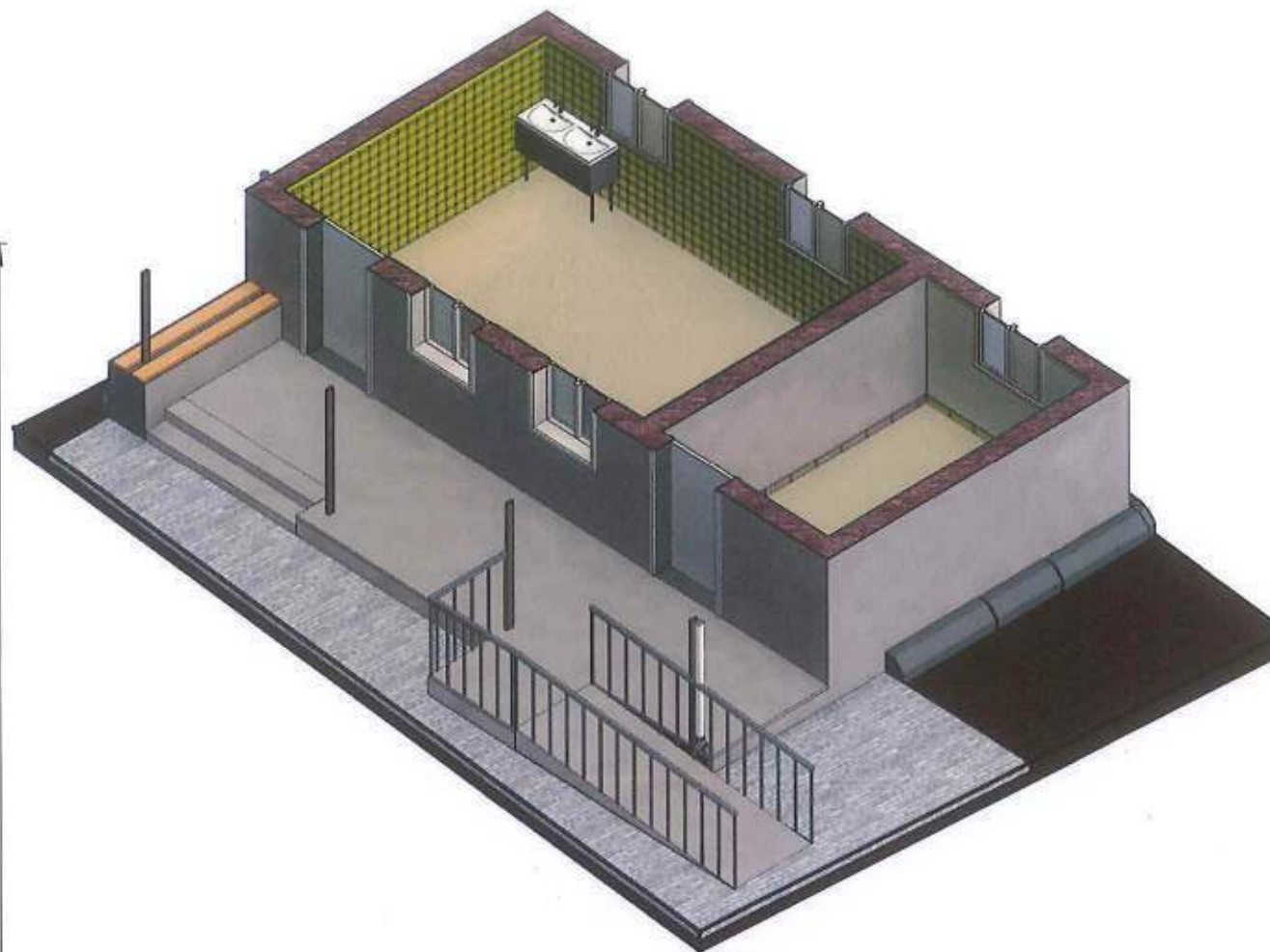
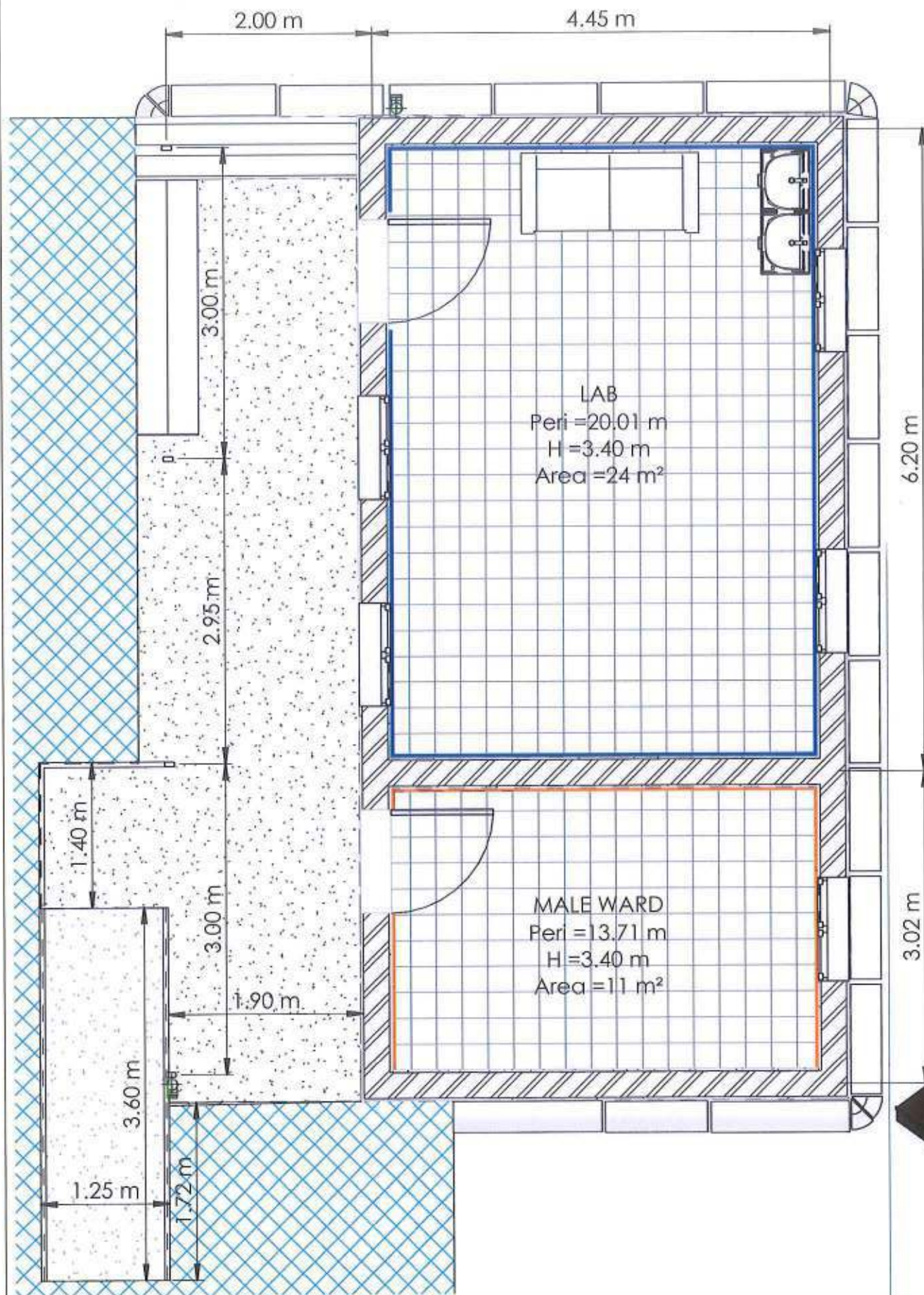
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B_15

SCALE:

1 : 50





AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

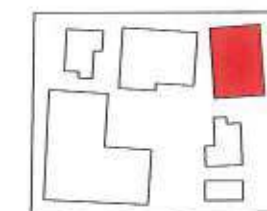
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+249115418666

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DOUBLE DTC ENGINEERING



Legend

	new internal flooring(+0.30)with ceramic tiles (40x40cm)
	Screed cement finishing
	skirting ceramic H=10cm
	wall ceramic tiles (15x15cm)

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NYD6)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN

DATE: January 2022

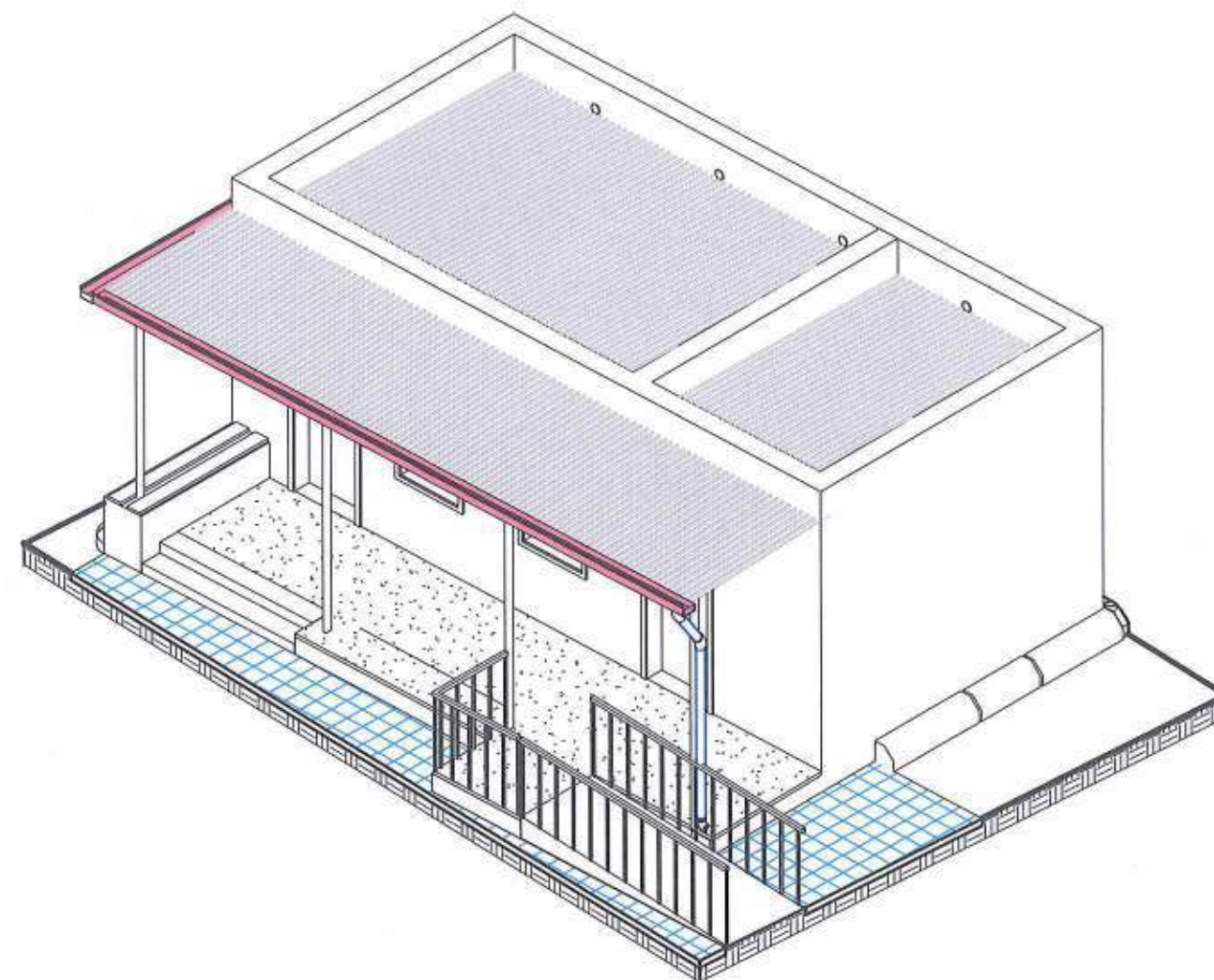
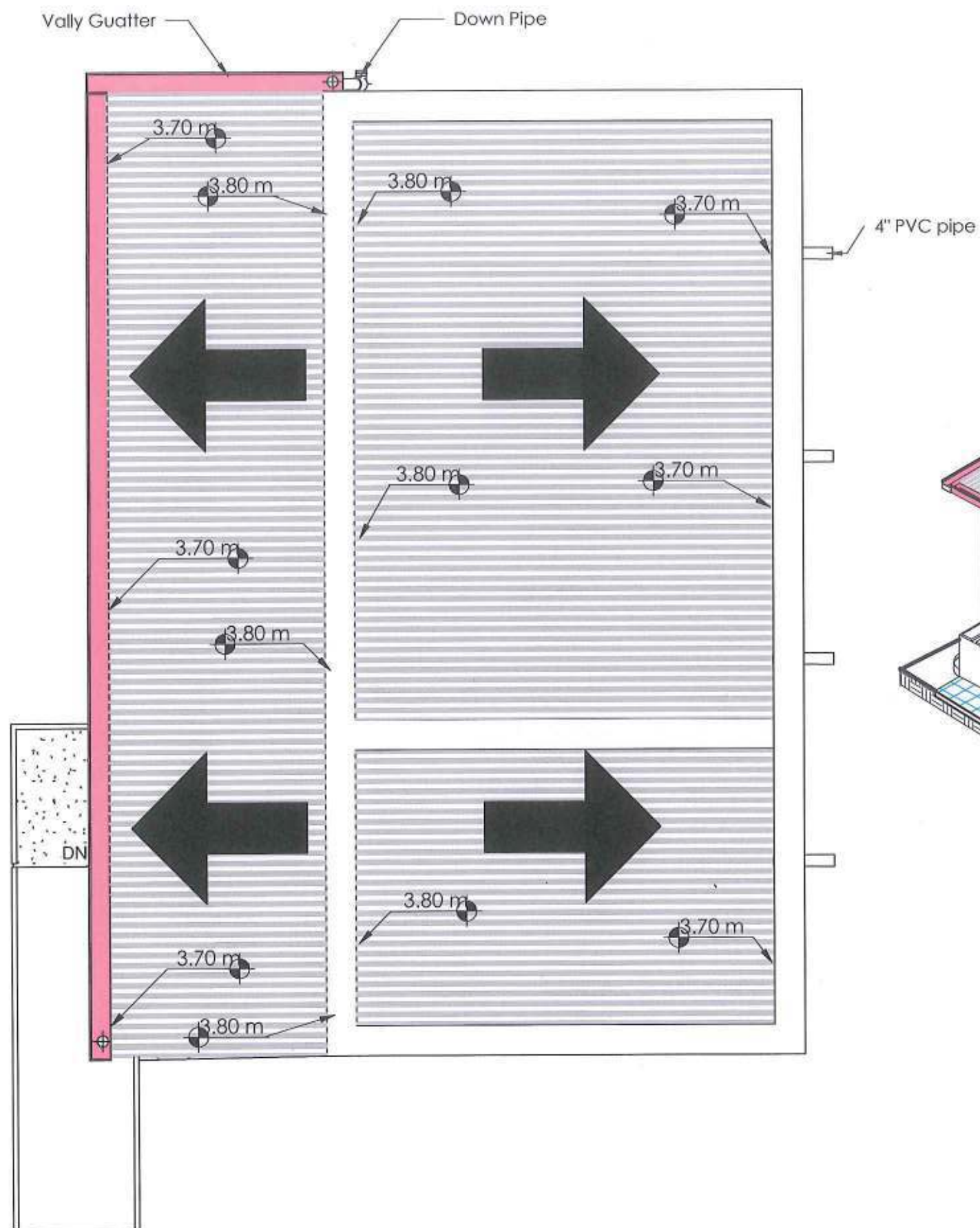
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C_01

SCALE:

1 : 50



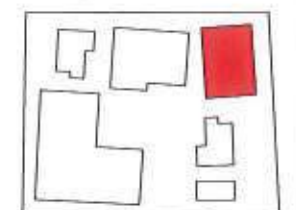


AICS-Italian Agency for Development Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

Al-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF DASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

ROOF PLAN

DATE: January 2022

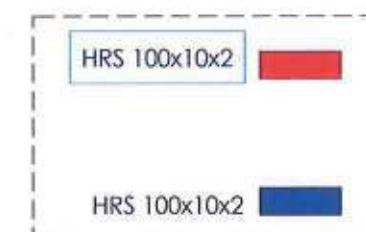
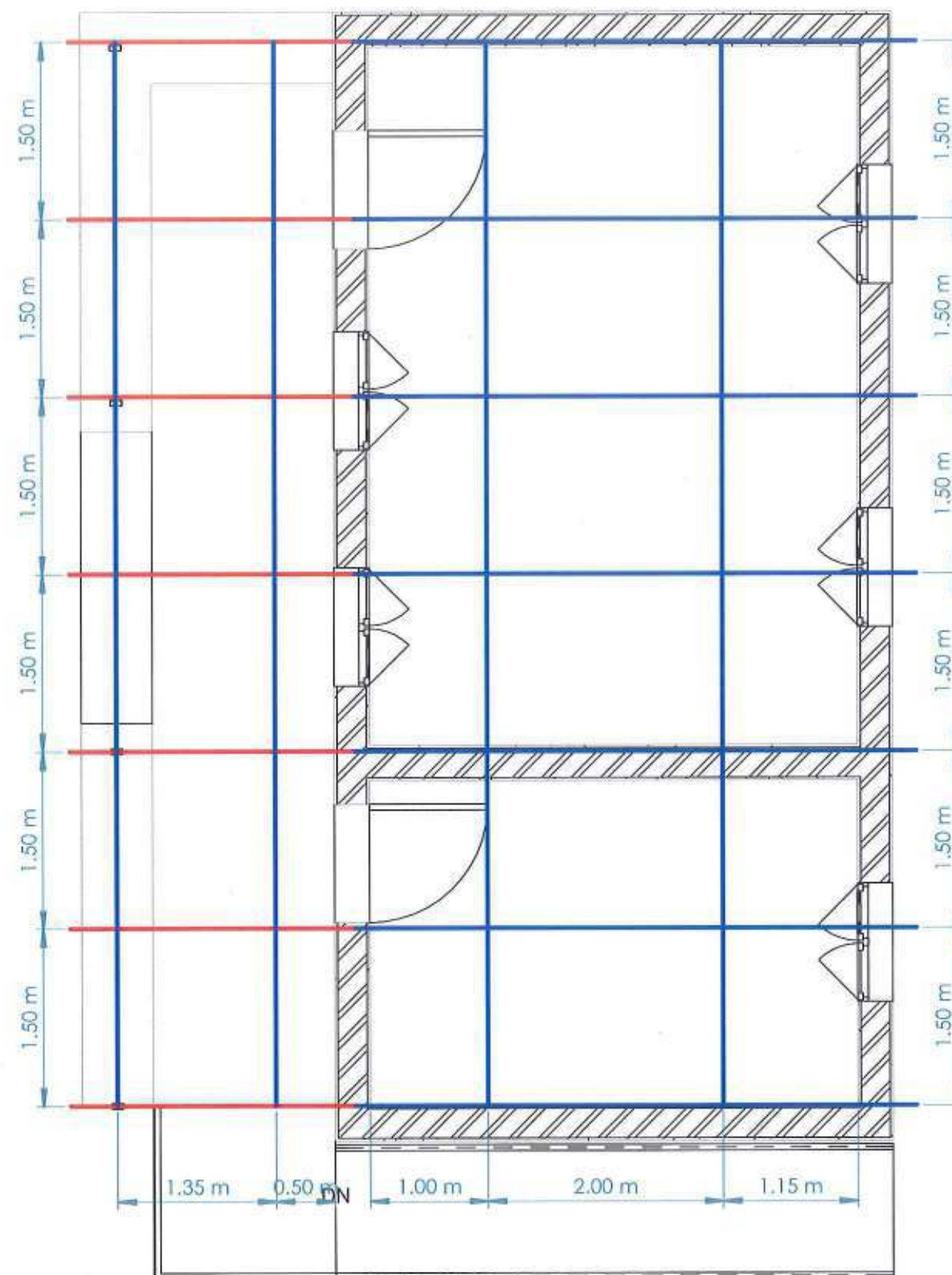
INDEX:

C_02

SCALE:

1 : 50





1 BLOCK C Roof Structure
Plan
1:50



AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

Al-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF QADH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nya

ARCHITECTURAL ENGINEER

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Roof Structure Plan

DATE: January 2022

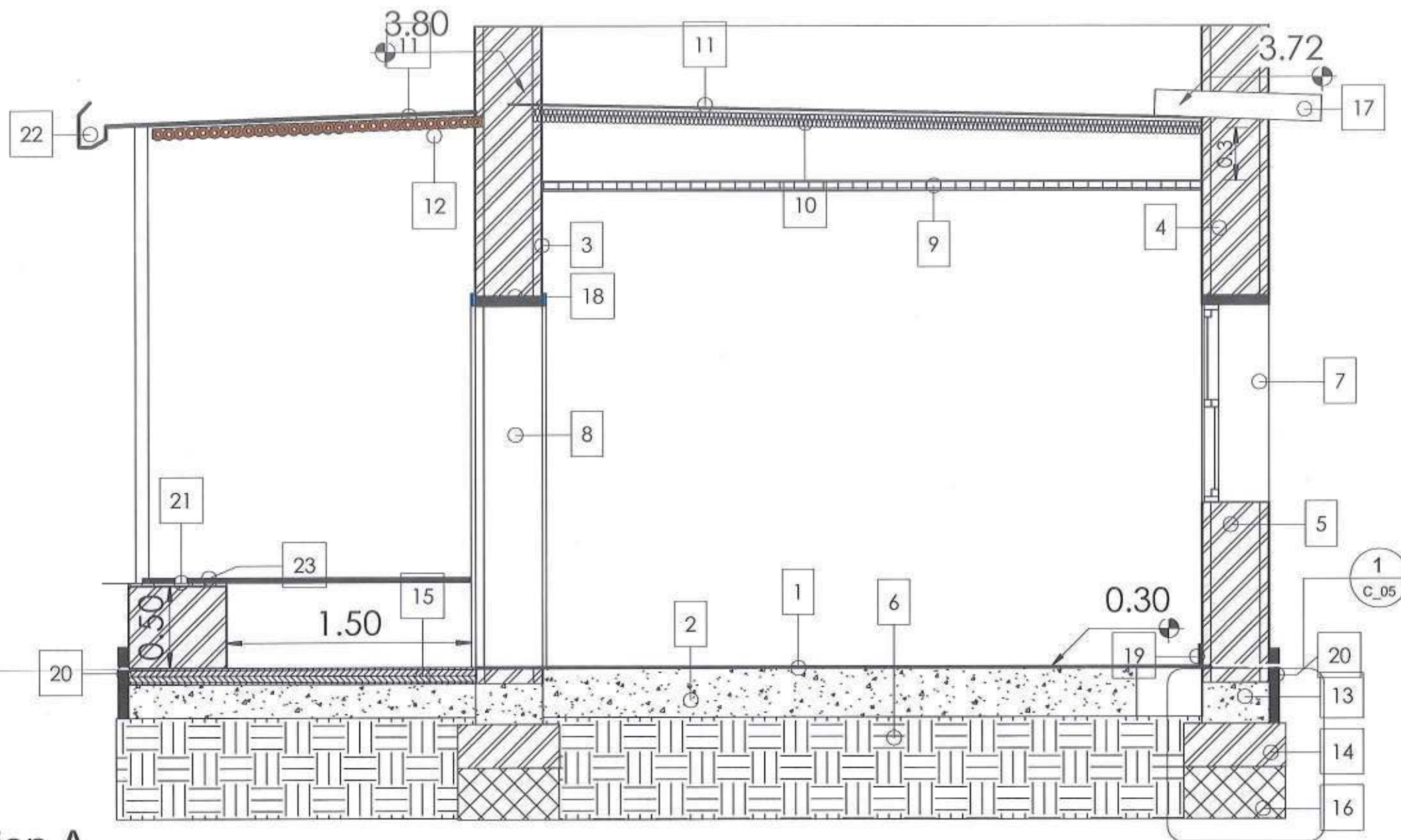
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C_03

SCALE:

1:50





Section A

1 : 30

1	Tiles (internal ceramic)	8	Door	15	Concrete Floor	22	Galvanized Gutter
2	Reinforced Concrete(C20)	9	False Ceiling	16	Rock Foundation	23	Wodden Planks
3	Paint	10	Insulation Layre	17	PVC Pipe	17	
4	Screed	11	Steel Sheet (Zinc)	18	Lintel Beam	18	
5	Wall	12	Bambo	19	Skerting Tiles	19	
6	Compacted Soil	13	Grade Beam	20	Curbstone	20	
7	Window	14	Wall 40 cm (Gasa)	21	Plaster	21	

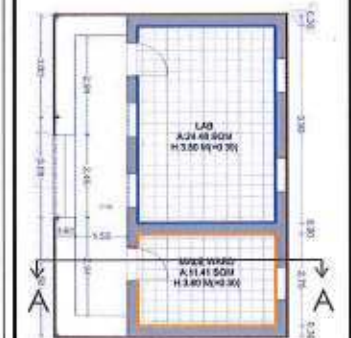


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Cooperation - SDN
13 Project 51, no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

Al-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
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EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nigala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Roof Section

DATE: January 2022

INDEX:

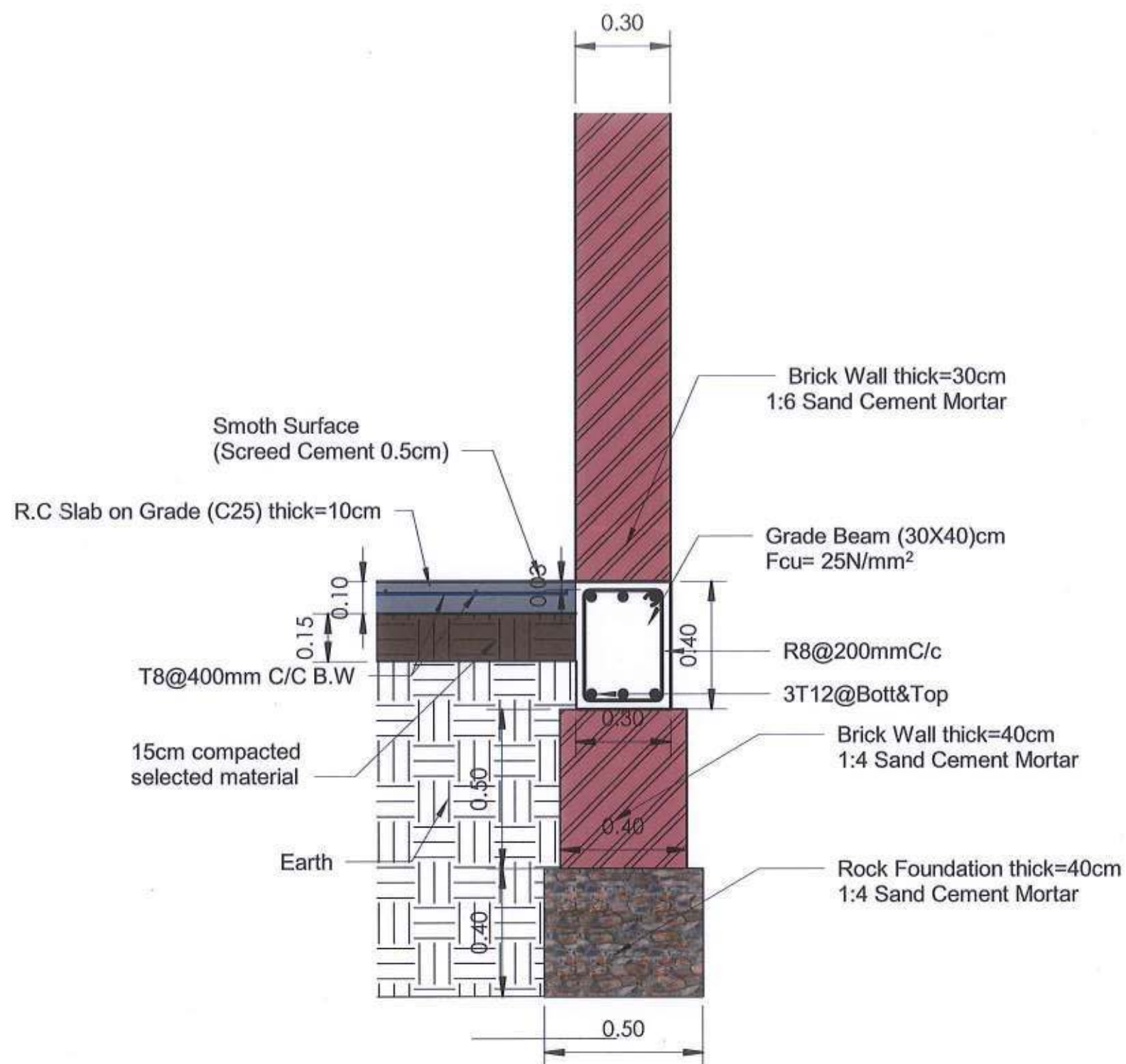
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SCALE:

1 : 30



$H = 15\text{cm}$ for opening width $> 1\text{ m}$

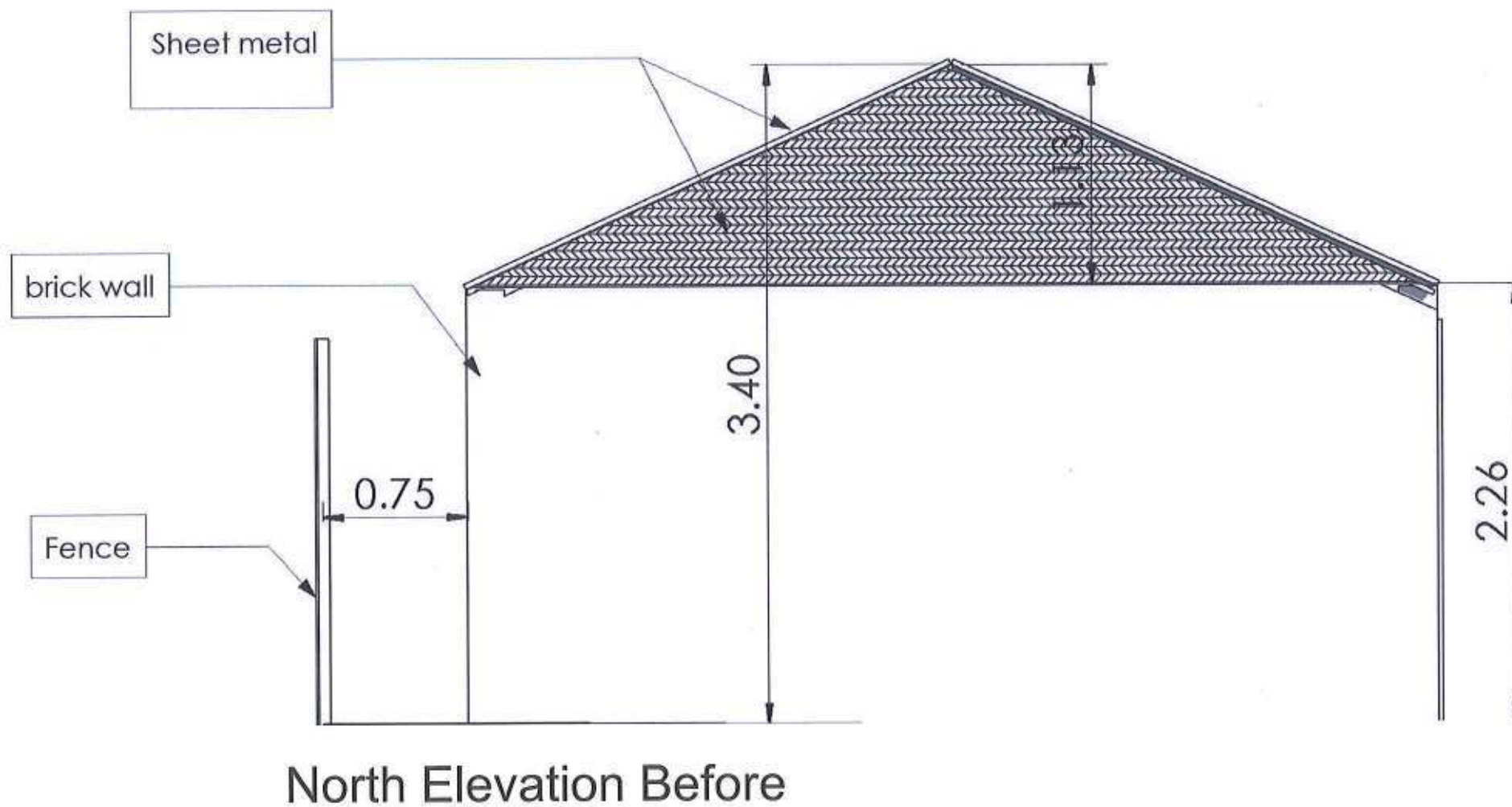
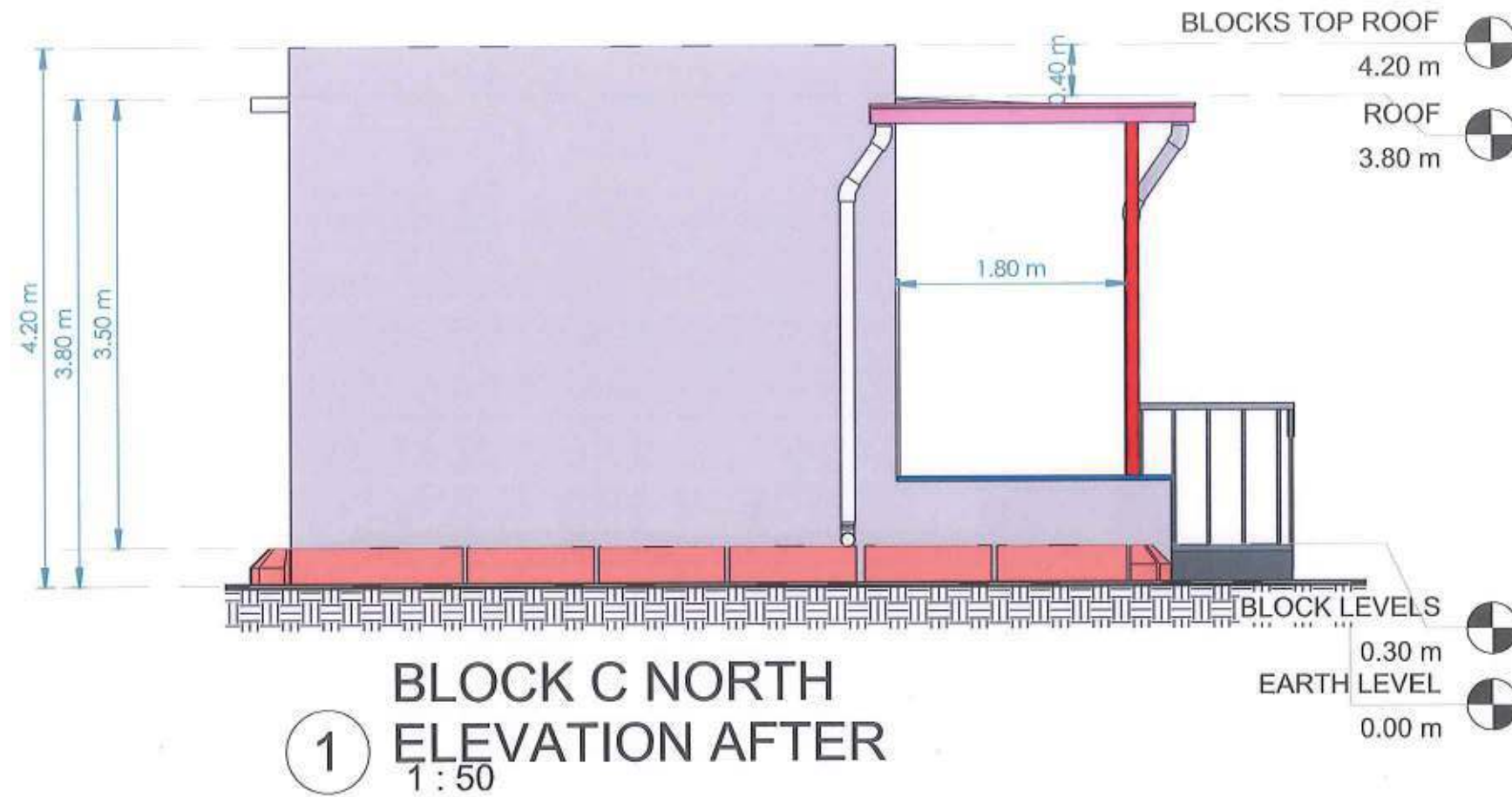


1 **Callout A**
1 : 15



1:15





AGENZIA ITALIANA
PER LA COOPERAZIONE
ALLO SVILUPPO

AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +24925451234
+24911541866

EMAIL: DQTC.ENGINEERING@GMAIL.COM

DOUBLE QTC ENGINEERING

Legend

	valley gutter
	wooden bambo sticks
	steel column 10X5 cm
	Wooden Planks
	Curbsone
	nier lock

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

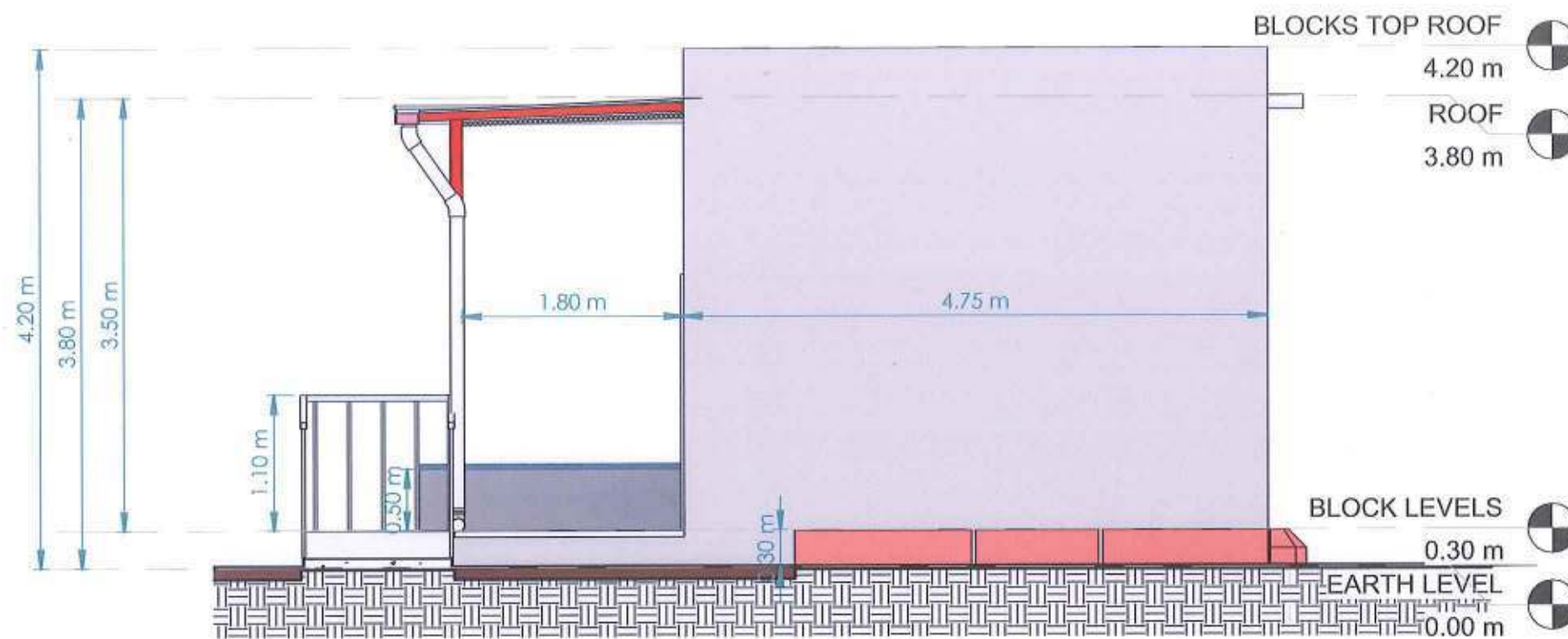
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

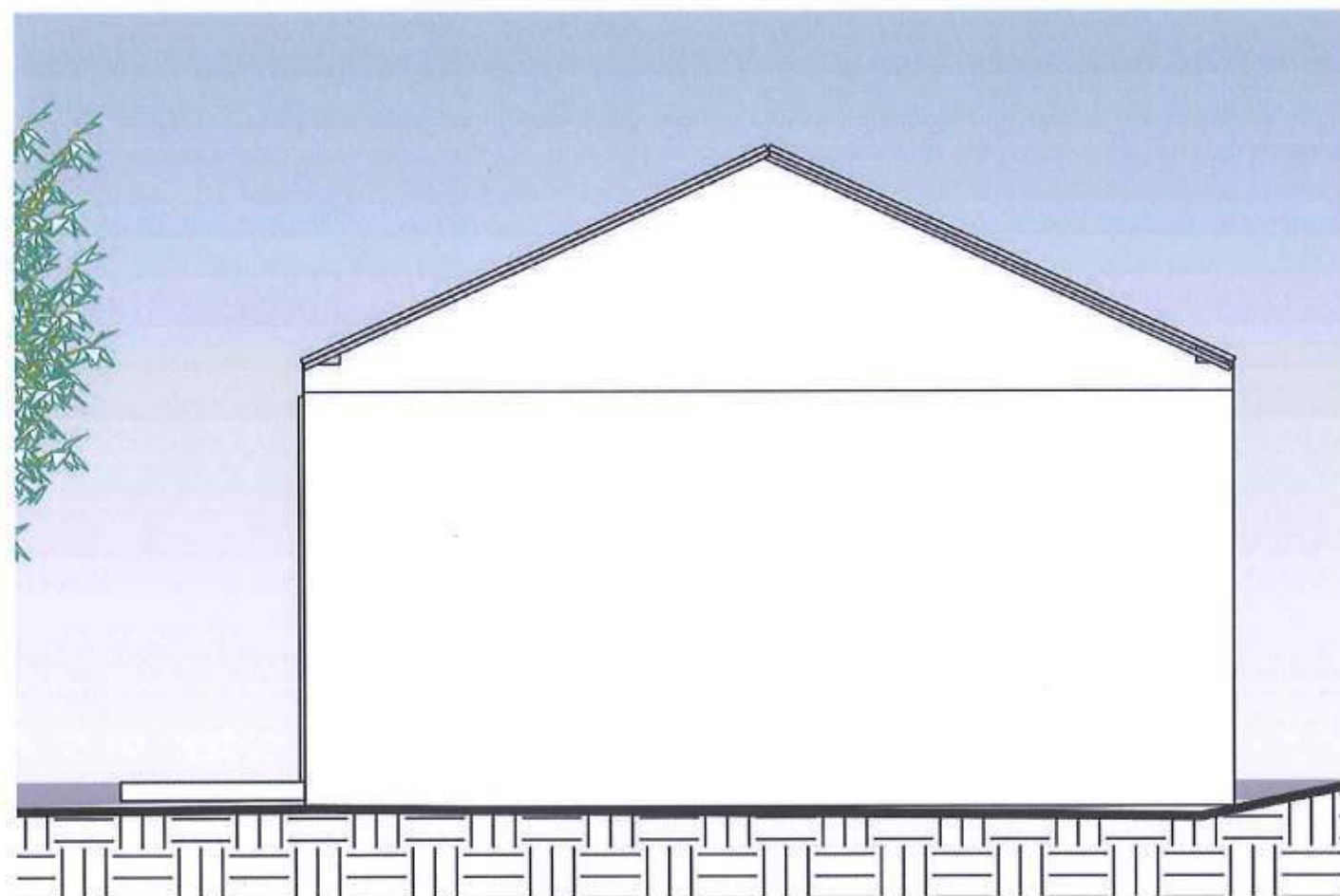
ELEVATIONS

DATE: January 2022

INDEX:	SCALE:	
C_06	1 : 50	



1
BLOCK C SOUTH
ELEVATION
1:50



South Elevation Before



AICS-Italian Agency for Development
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13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

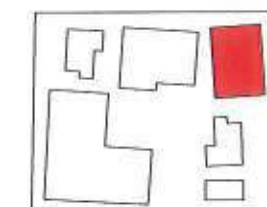
AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +24925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



Legend

	vally gutter
	wooden bambo sticks
	steel column 10X5 cm
	Wooden Plants
	Cultistone
	inter lock

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF DASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYATA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

ELEVATIONS

DATE: January 2022

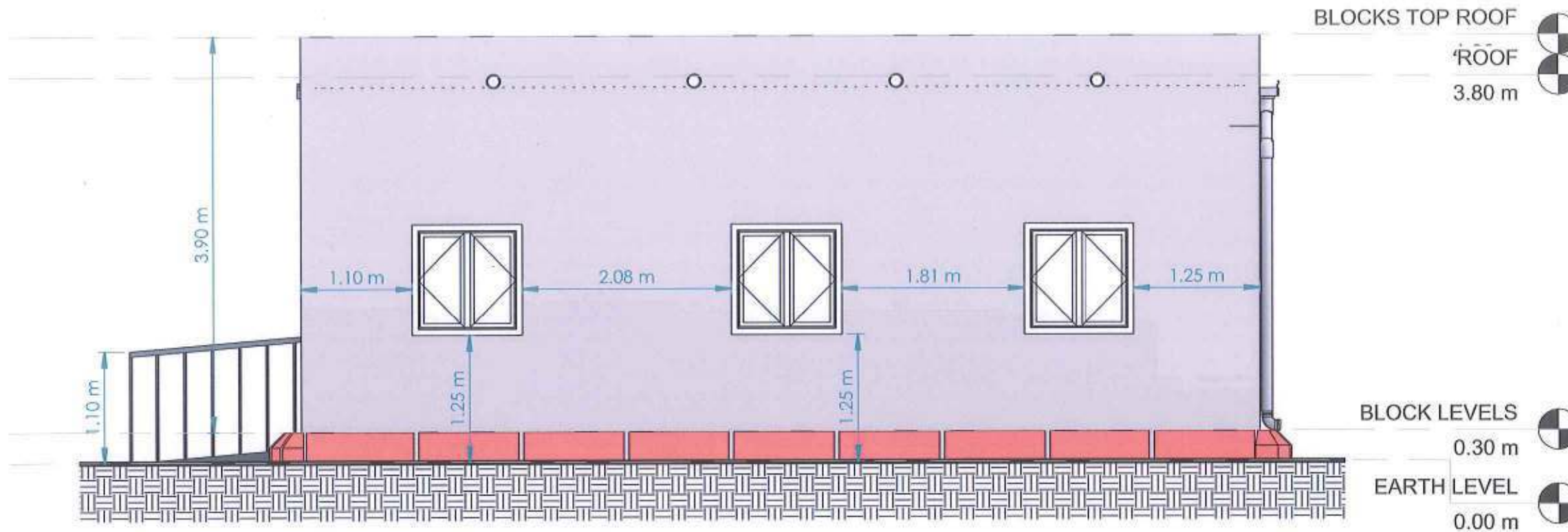
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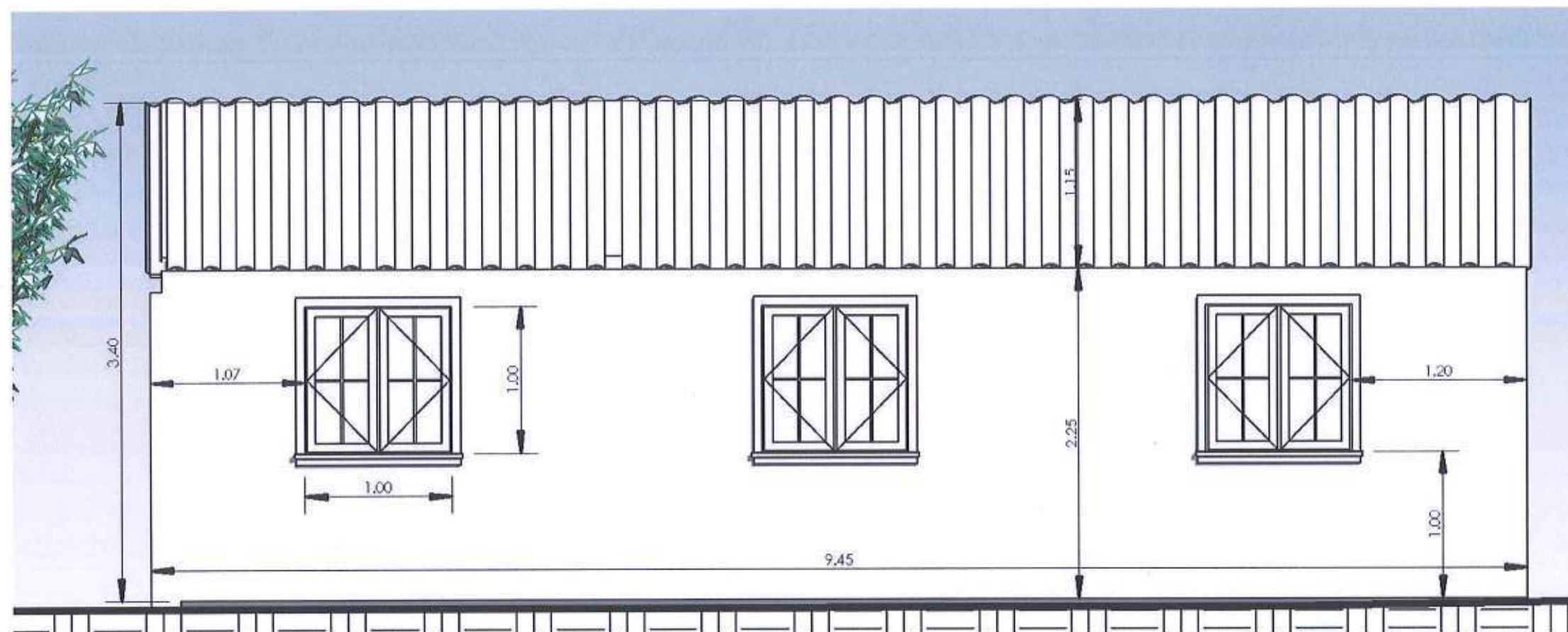
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1:50





1 BLOCK C EAST
ELEVATION
1:50



East Elevation Before

AGENZIA ITALIANA
PER LA COOPERAZIONE
ALLO SVILUPPO

AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM

DOUBLE DTC ENGINEERING

Legend

	valley gutter
	wooden bamboo sticks
	steel column 10x5 cm
	wooden planks
	curbstone
	inter lock

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF DASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

ELEVATIONS

DATE: January 2022

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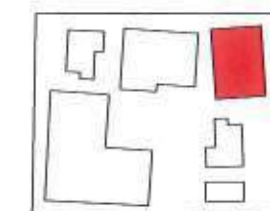
C_08

SCALE:

1:50



DOUBLE DTC ENGINEERING



Legend

	valley gutter
	wooden bambo sticks
	steel column 10x5 cm
	Wooden Planks
	Cutstone
	inter lock

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF QASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

ELEVATIONS

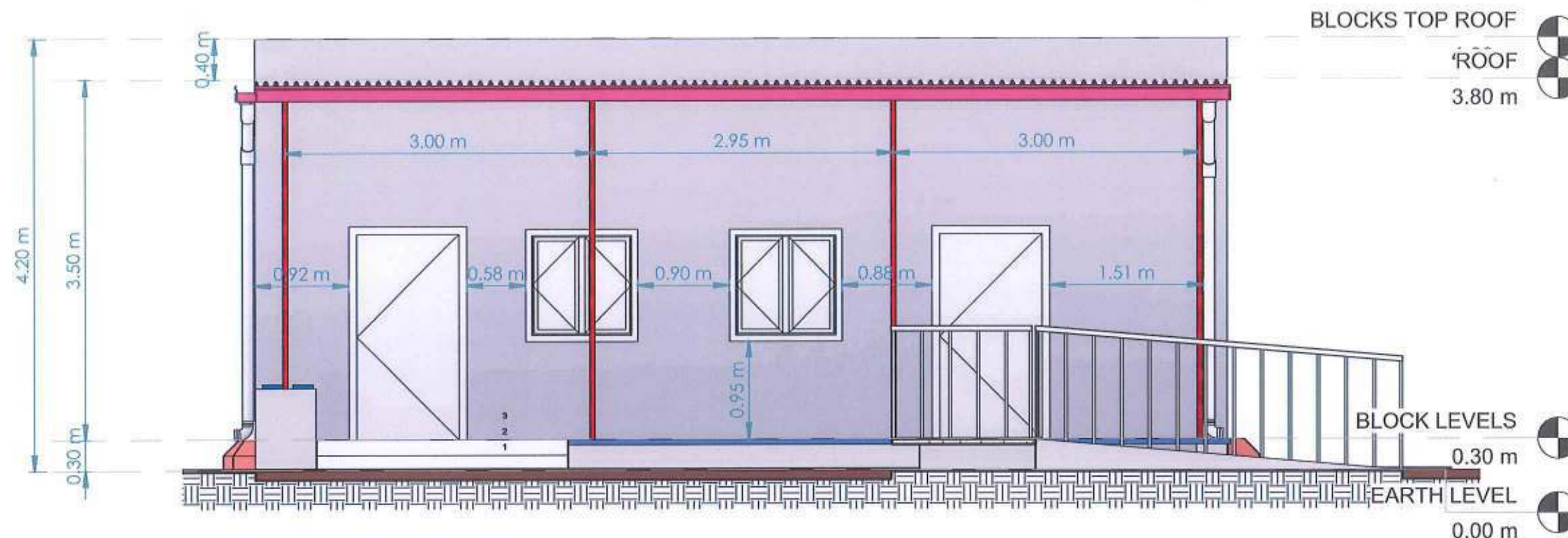
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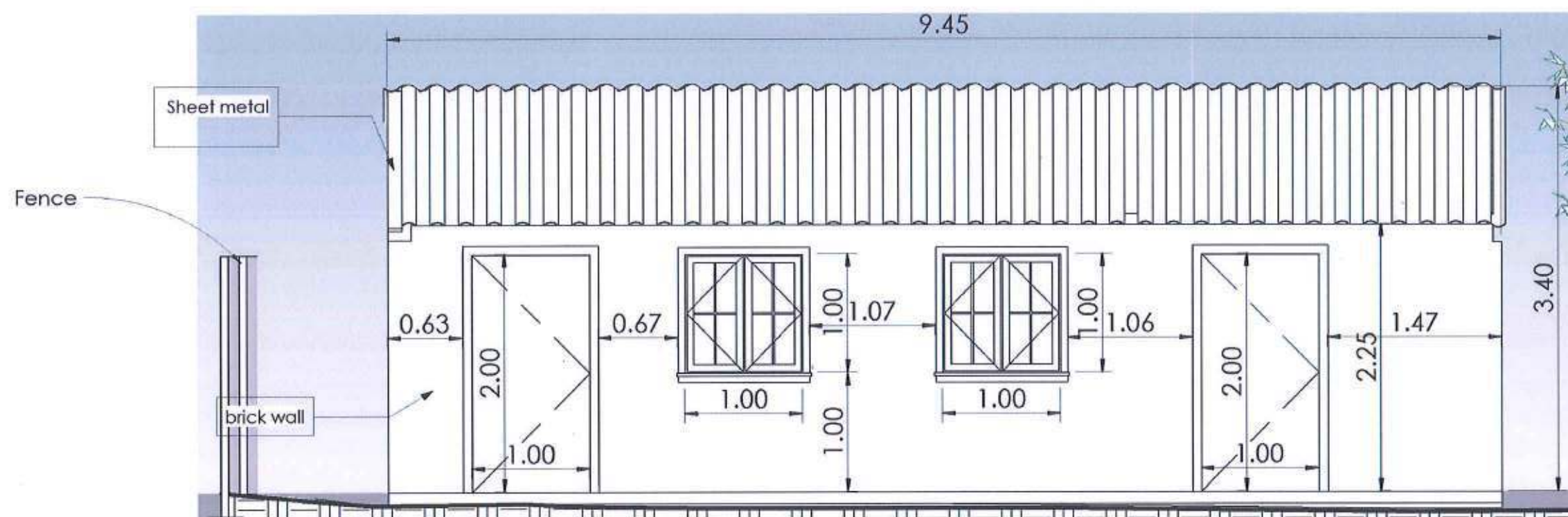
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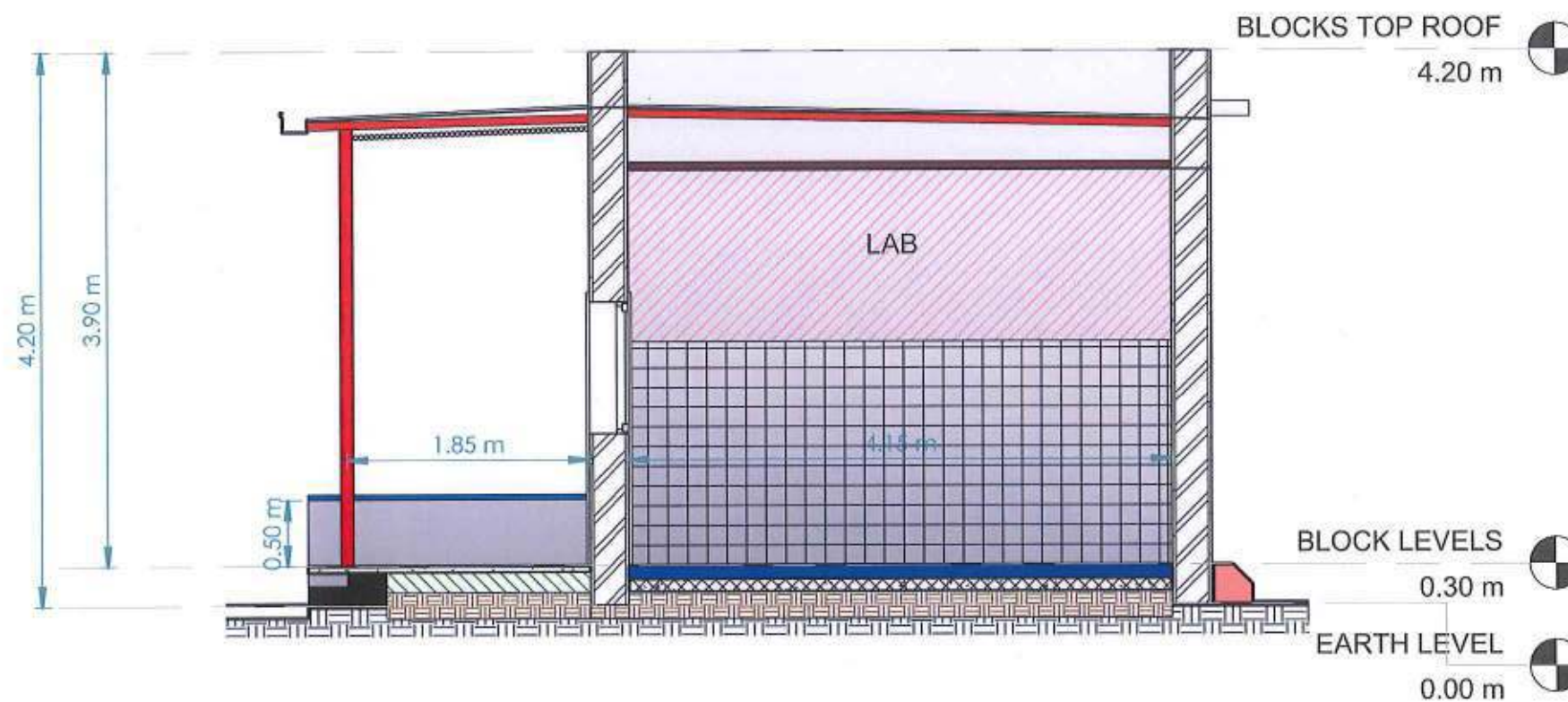
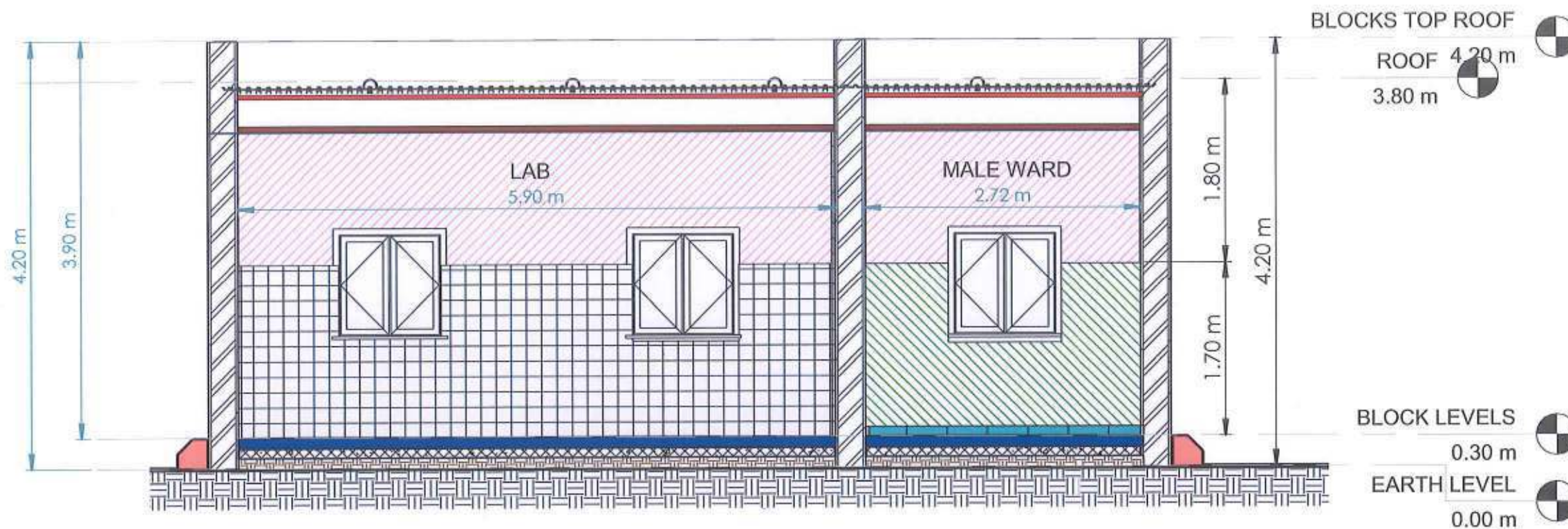
1:50



1 BLOCK C WEST
ELEVATION AFTER
1:50



West Elevation Before



AGENZIA ITALIANA
PER LA COOPERAZIONE
ALLO SVILUPPO

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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM

DOUBLE DTC ENGINEERING

Legend

	Steel column 10X5 cm
	False ceiling
	Emulsion paint (internal) from 1.20m up to ceiling
	Glossy oil paint (internal) from floor up to 1.20m
	Wall tiles 15X15
	Stirring tiles 40X30
	Floor tiles 40X40
	Reinforced Concrete floor
	Compacted Soil

PROGRAM TITLE:

TDS-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

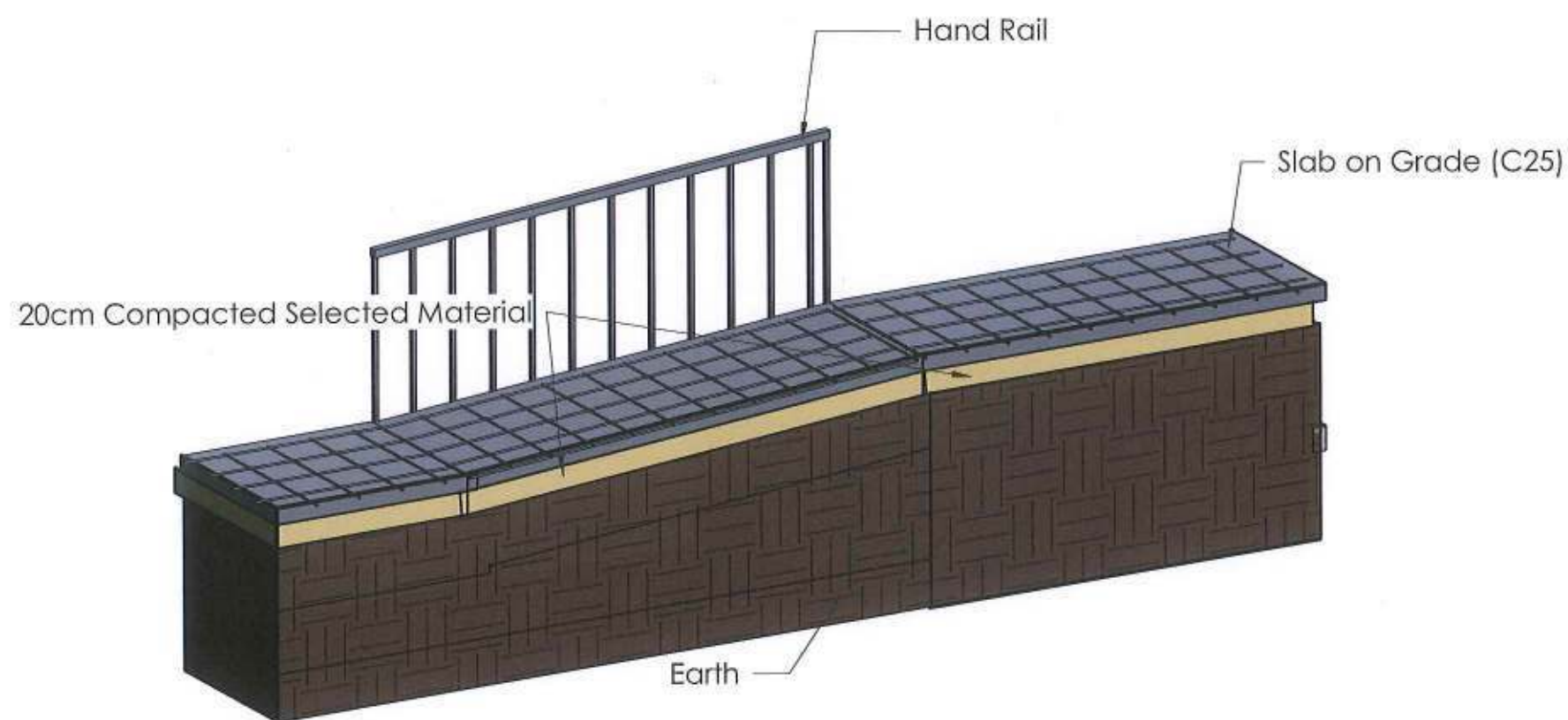
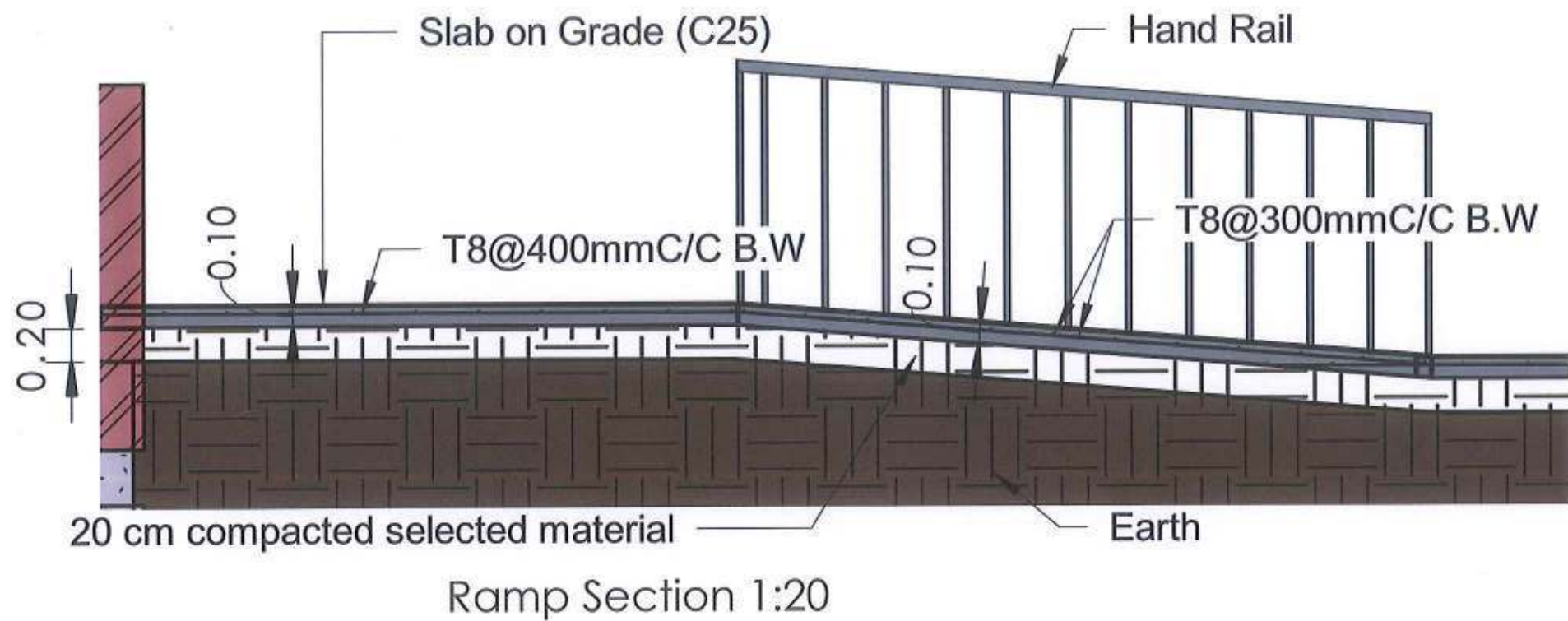
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

SECTIONS

DATE: January 2022

INDEX:	SCALE:	
C_10	1:50	



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13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OBOTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Ramp Section and 3D

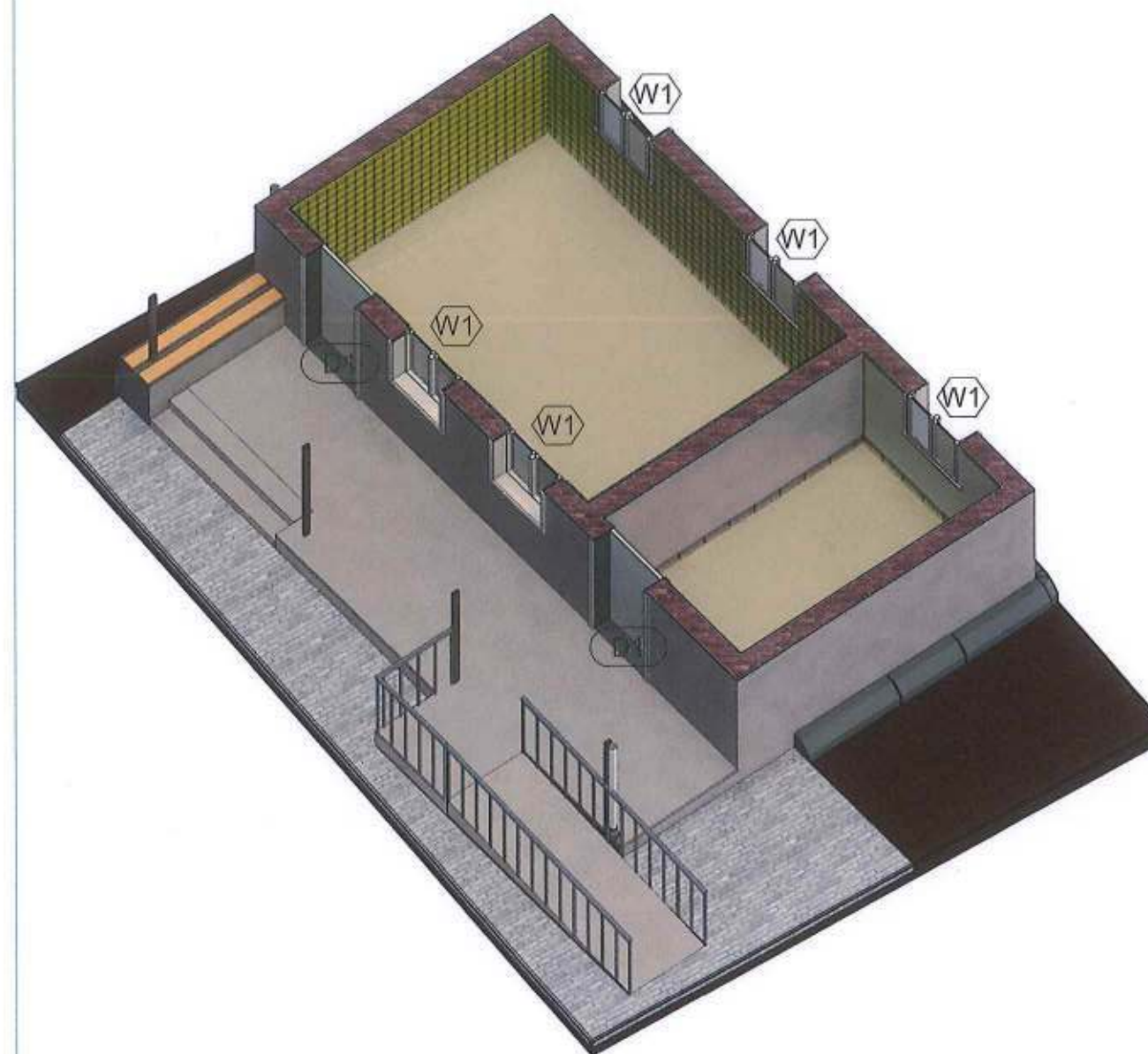
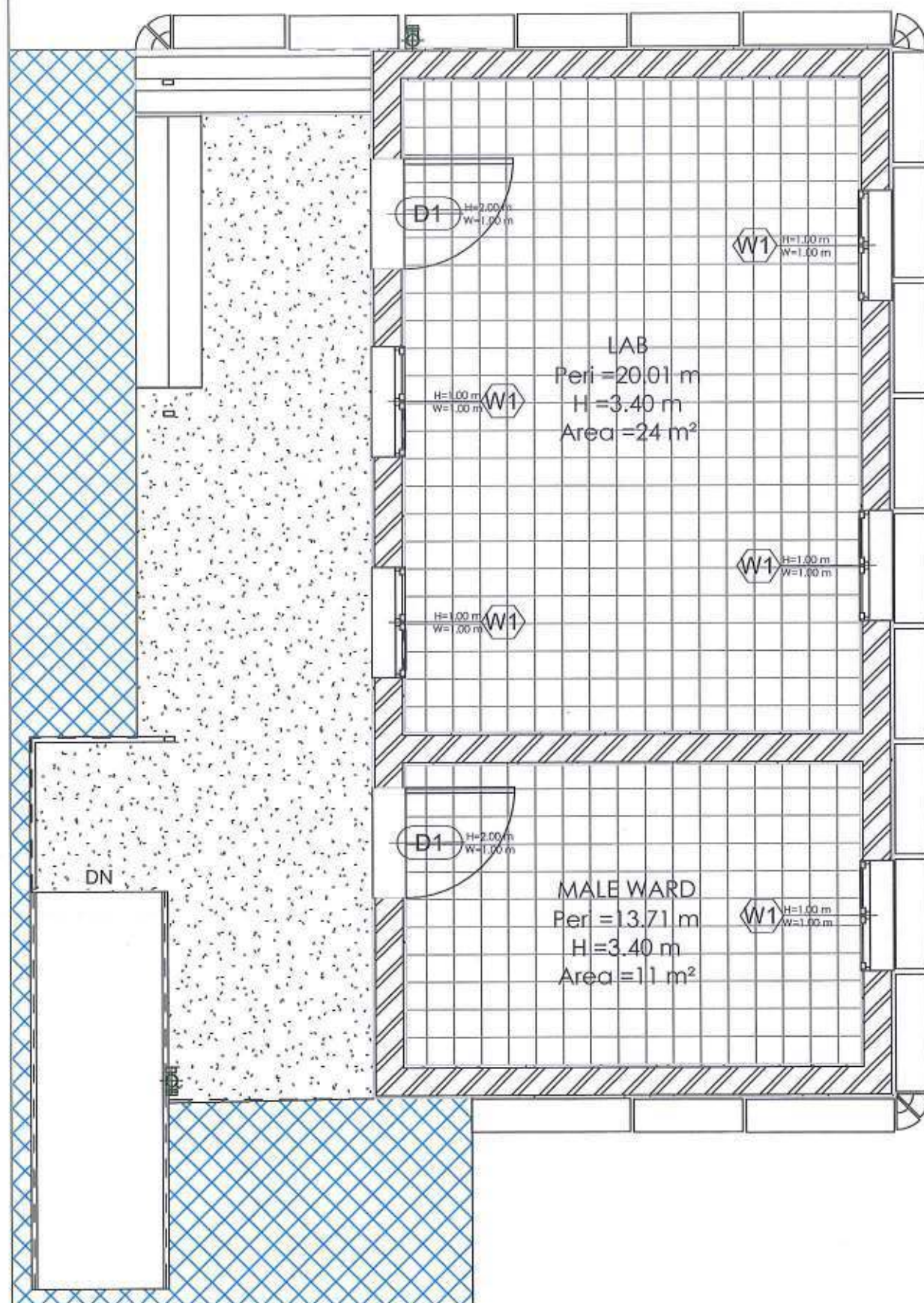
DATE: January 2022

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SCALE:



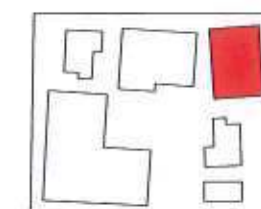


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Al-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



Door Schedule

Type	Width	Height
D1	1.00 m	2.00 m

Window Schedule

Type	Width	Height
W1	1.00 m	1.00 m

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

GROUND FLOOR PLAN Doors &
Windows

DATE: January 2022

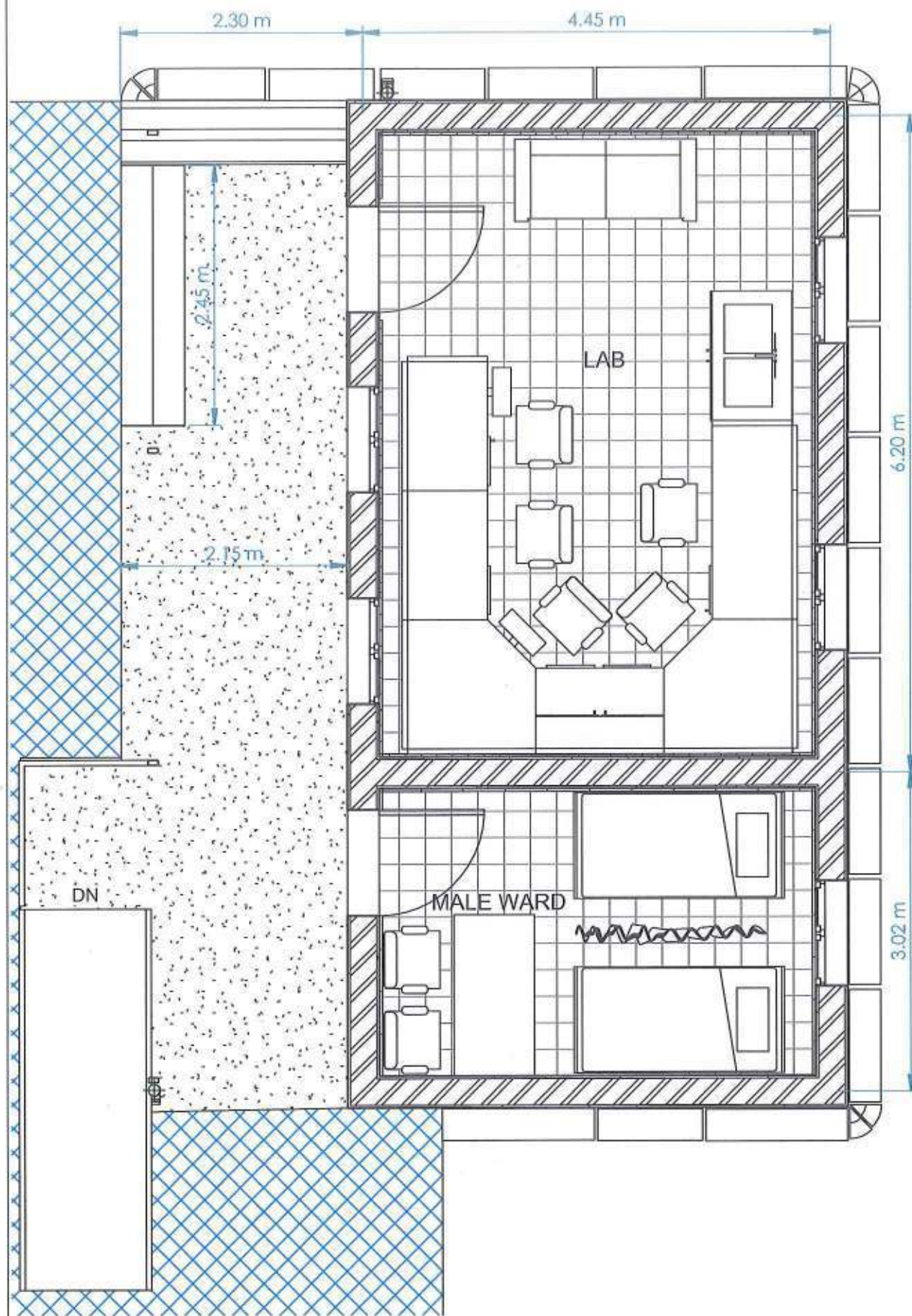
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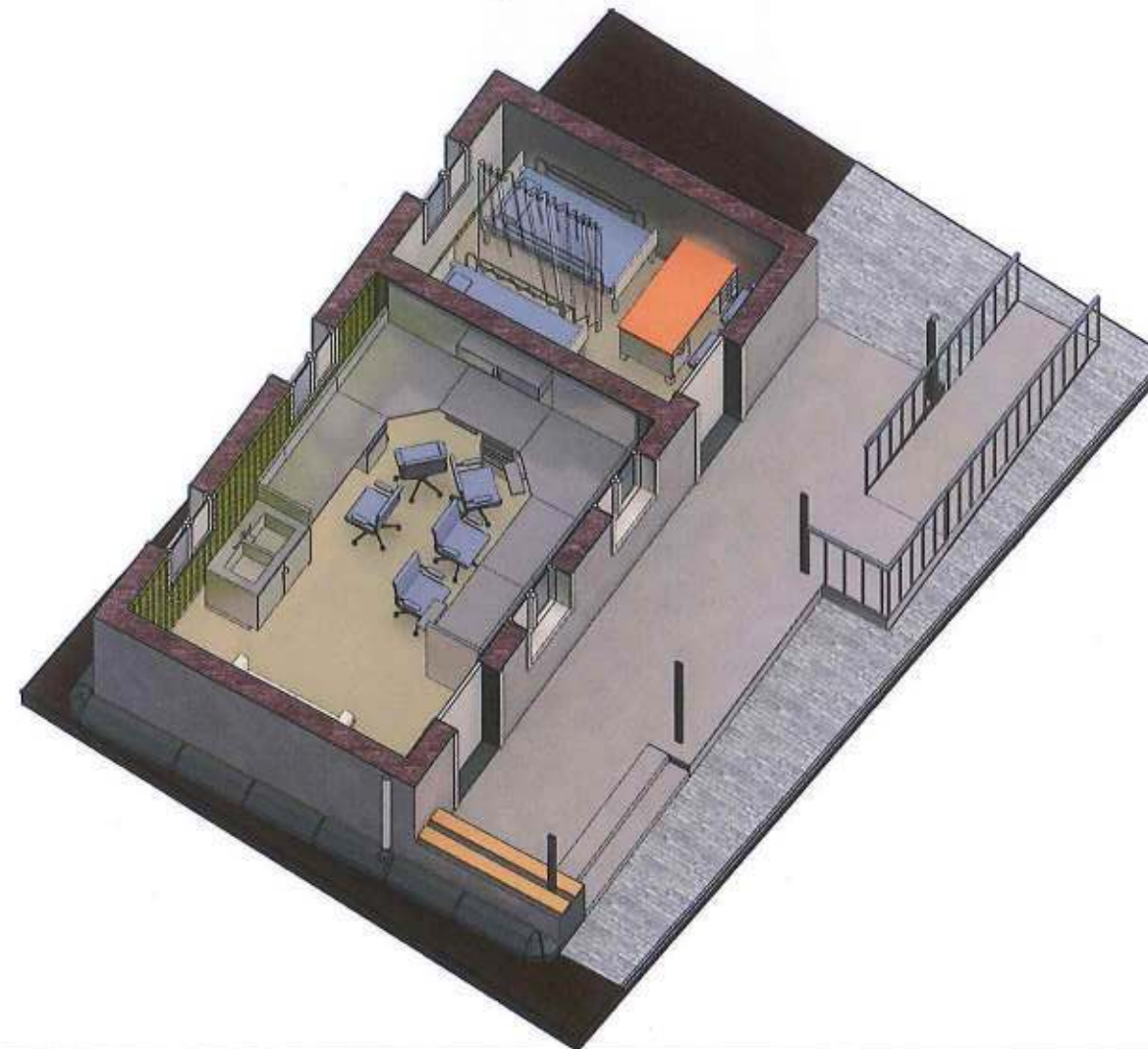
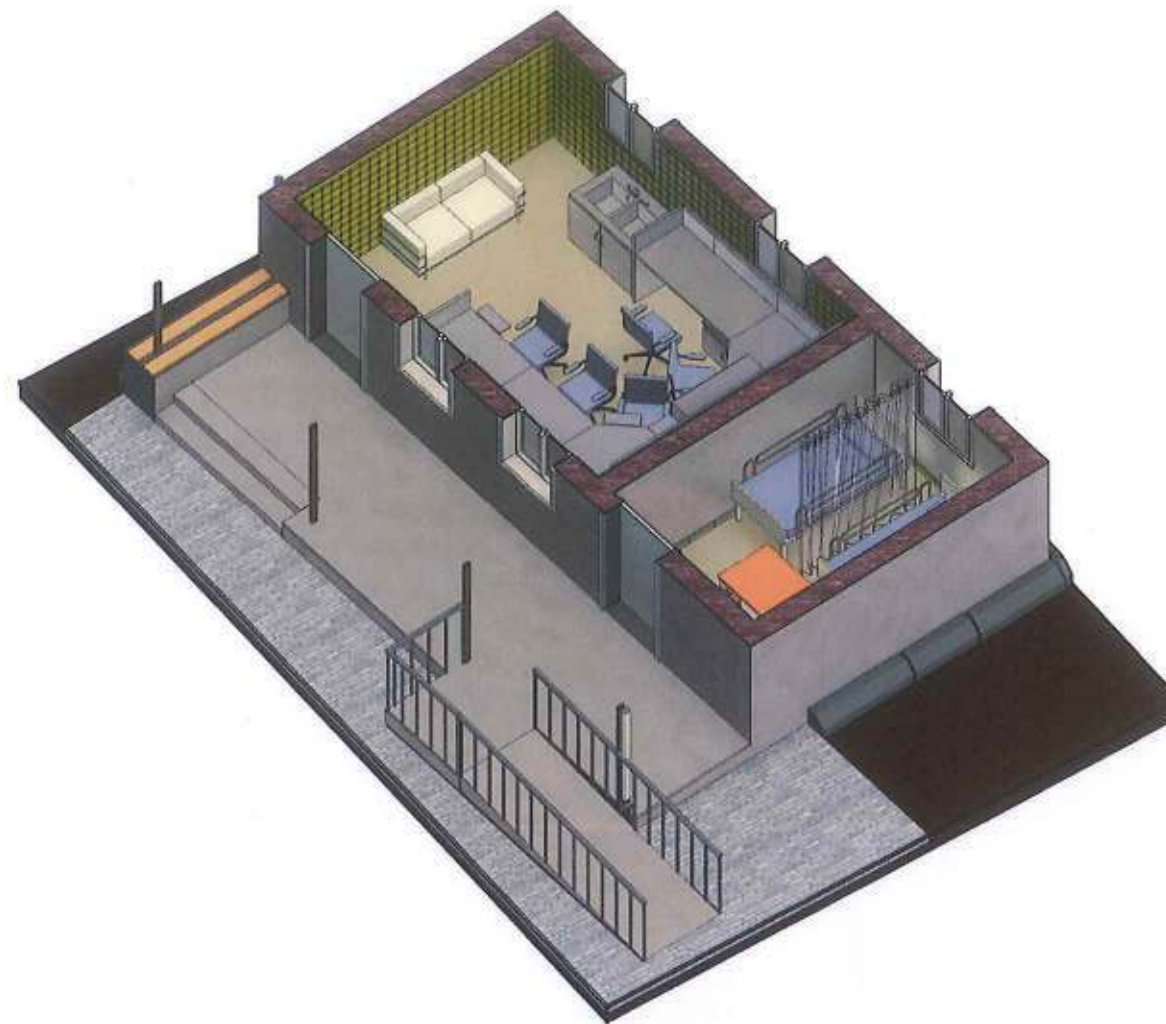
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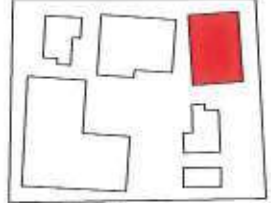



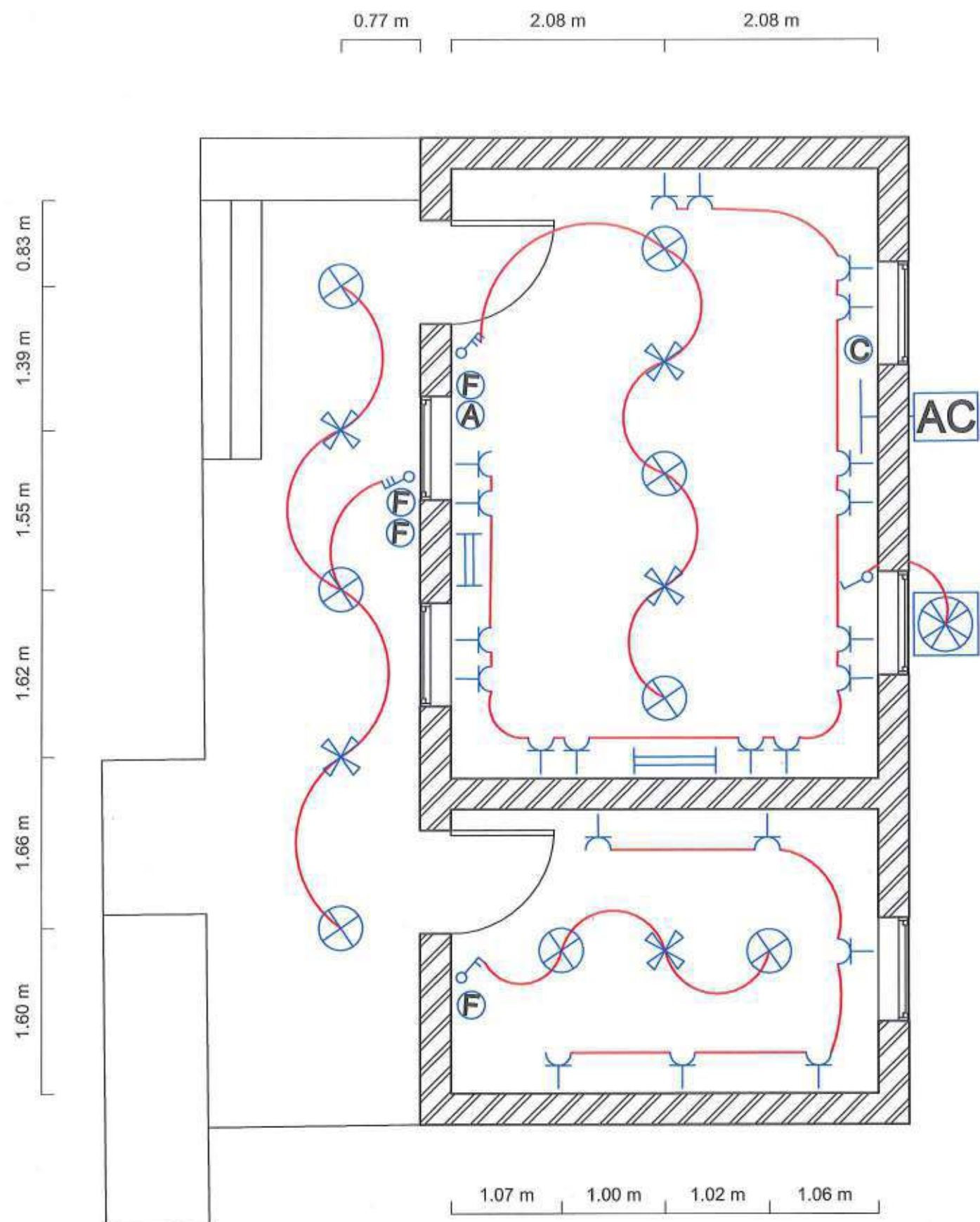


BLOCK C FURNITURE

1 PLAN
1:50



 		
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AL-Amarat Mohamed Najeeb Street, Khartoum TEL: +249925451234 +249115418666 EMAIL: DQTC.ENGINEERING@GMAIL.COM		
		
		
PROGRAM TITLE: TOS-EUTF-HOA-SDN-73-01		
PROJECT TITLE: HEALTH CENTER OF QASH (NY06)		
LOCATION: SOUTH DARFUR NORTHERN NYALA		
ARCHITECTURAL ENGINEER: ENG. ISRAHIM MOHAMMED ISRAHIM		
CHECKED BY: ENG. AMRAN MOHAMMED OTHMAN		
DRAWING TITLE: GROUND FLOOR PLAN FURNITURE PLAN		
DATE: January 2022		
INDEX:	SCALE:	
C_14	1:50	



DESCRIPTION

	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	SOCKET OUTLET POINT
	AC SWITCH 45 AMP
	FAN SWITCH
	AUTOCLAVE 20 AMP
	CEILING LAMP
	NEON LAMP
	CEILING FAN
	EXHAUST FAN
	AIR CONDITIONER 24000BTU

1

BLOCK C

1 : 50



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13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

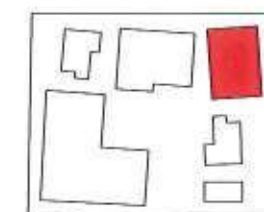
AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE QTC ENGINEERING



PROGRAM TITLE:

T05-EUF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:

ENG. MOHAMMED SALAH ALAMIR

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

BLOCK C ELECTRICAL LAYOUT

DATE: JANUARY 2022

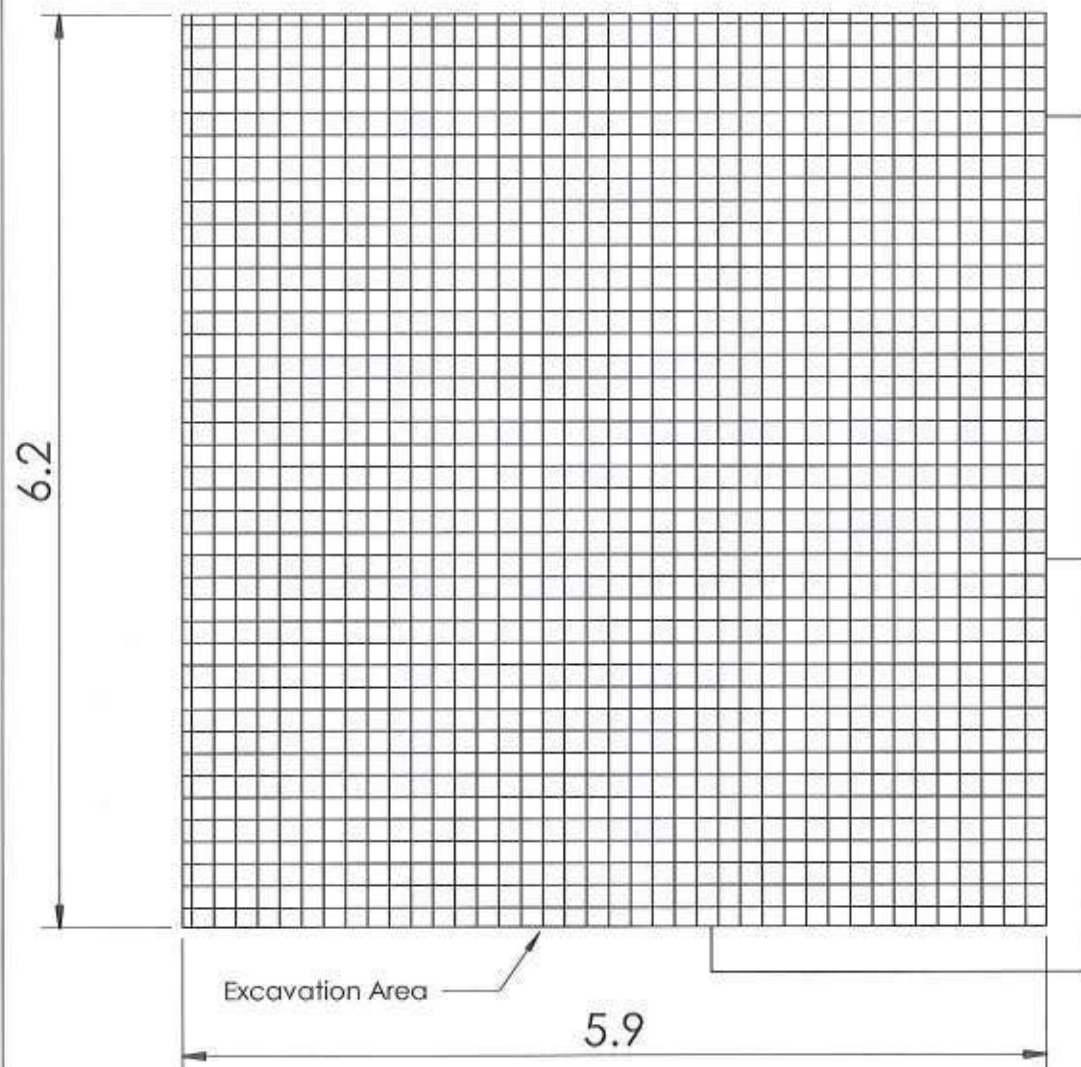
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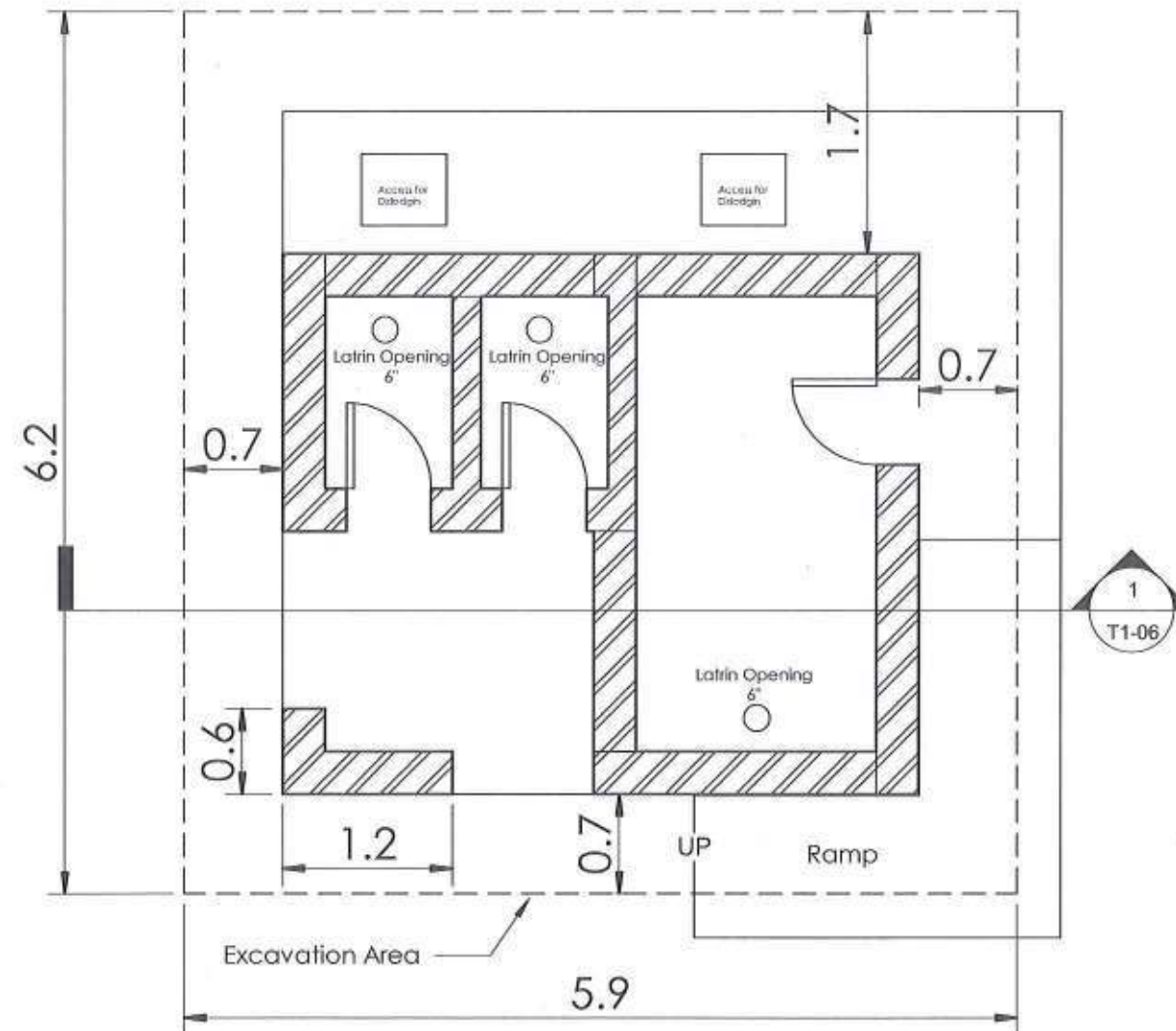
SCALE:

1 : 50







2 Excavation Area T1
1 : 50



1 W.C Well T1
1 : 50


AGENZIA ITALIANA
PER LA COOPERAZIONE
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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Hajeab Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE QTC ENGINEERING

PROGRAM TITLE:
T05-EUTF-HOA-SD-73-01

PROJECT TITLE:
HEALTH CENTER OF OFASS (NY06)

LOCATION:
SOUTH DARFUR
Northern Nyala


STRUCTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

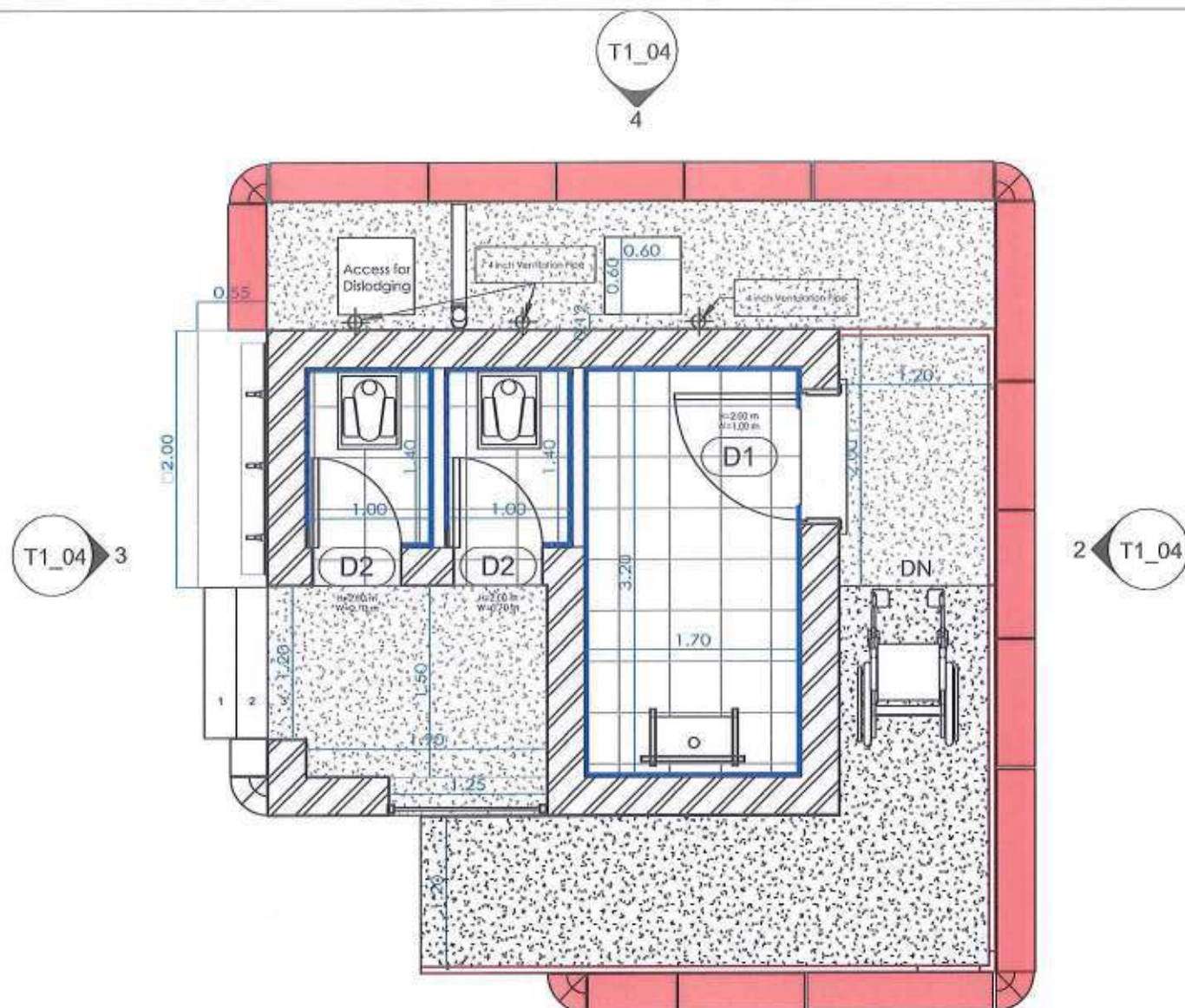
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Latrine Under Ground - Excavation
Plan.

DATE: January 2022

INDEX: T1-01	SCALE: 1 : 50
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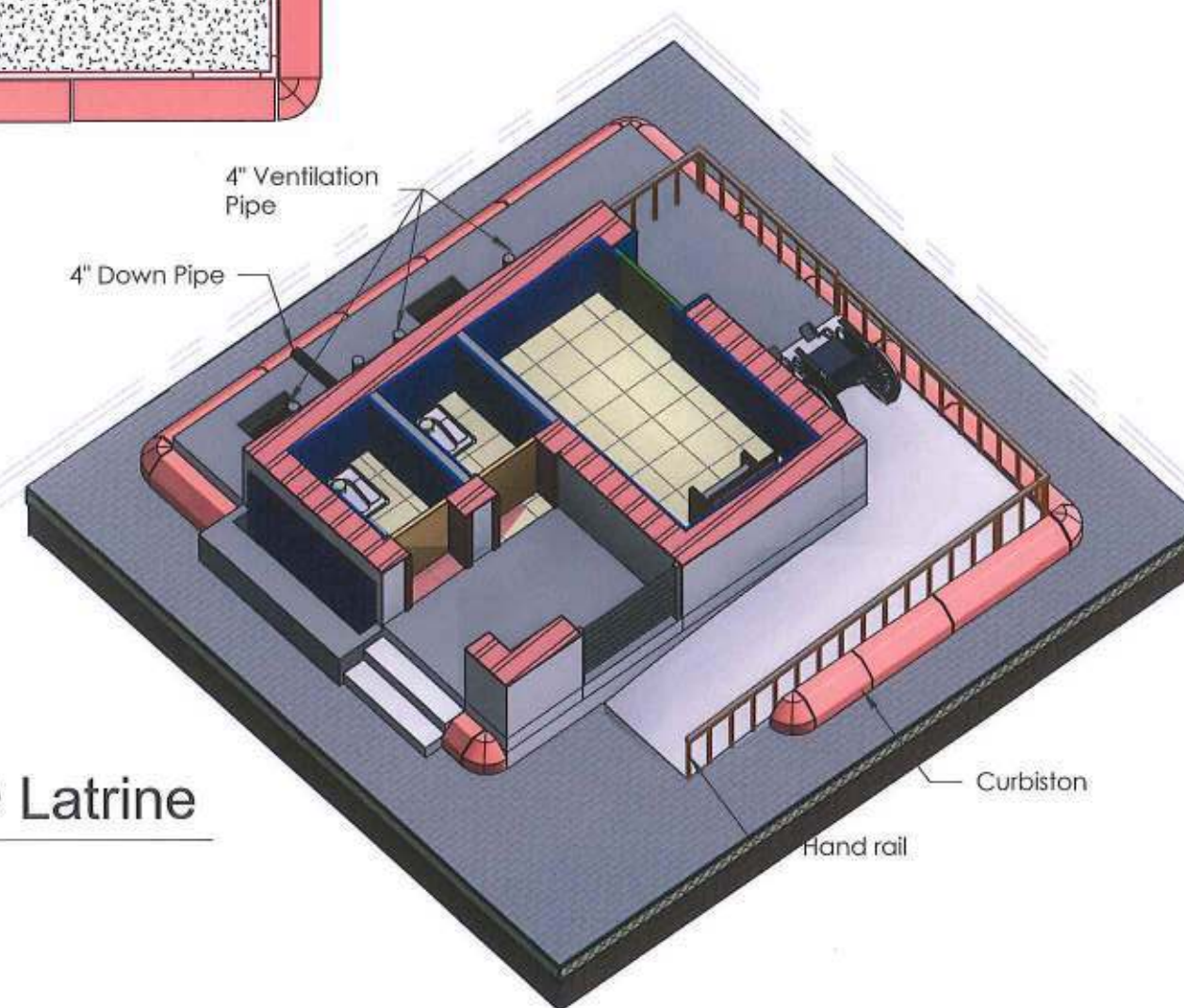


1 03-Latrine Floor
1 : 50



5 T1_04

2 3D Latrine



Legend

	new internal flooring (+0.45) with ceramic tiles (40x40cm)
	Screed cement finishing
	Hand rail
	wall ceramic tiles (15x15cm)
	Curbstone

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTACH (NYD6)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

STRUCTURAL ENGINEER:

ENG. D. H. H. H.

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Latrine Ground Floor Plan

DATE: January 2022

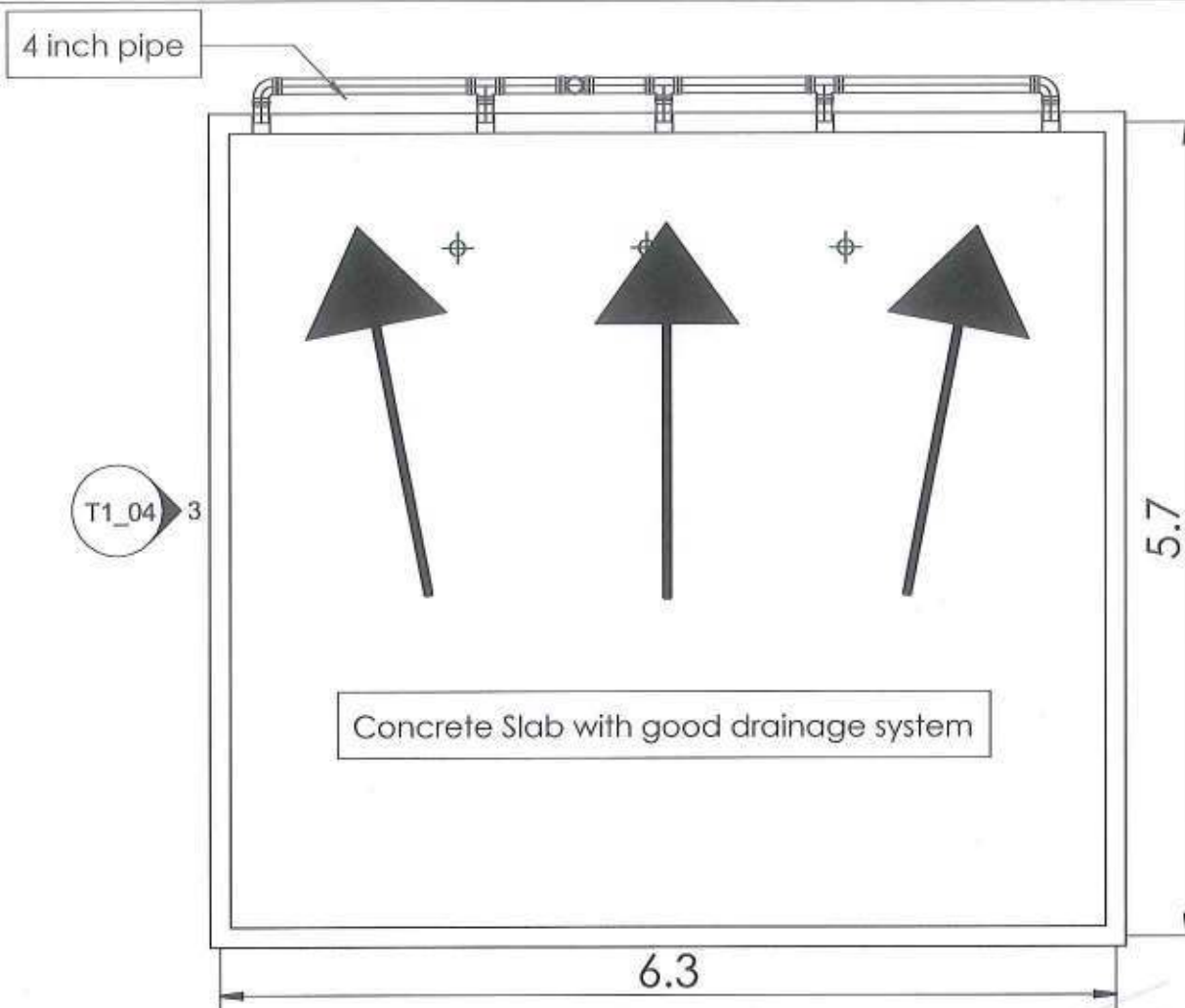
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T1_02

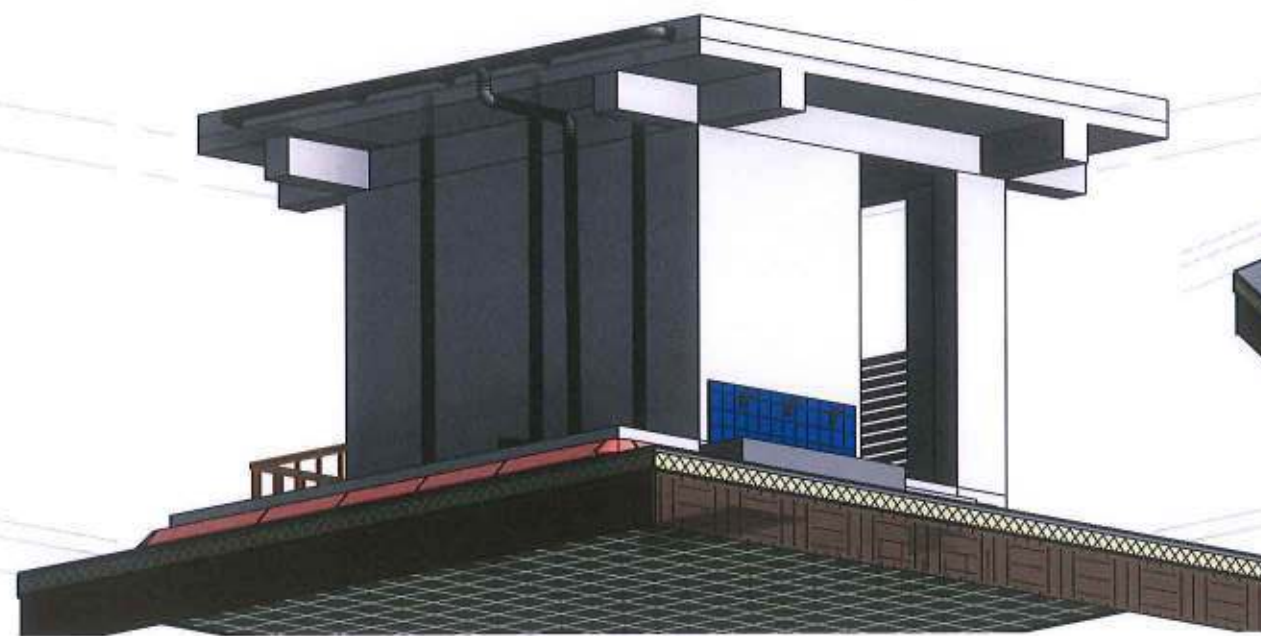
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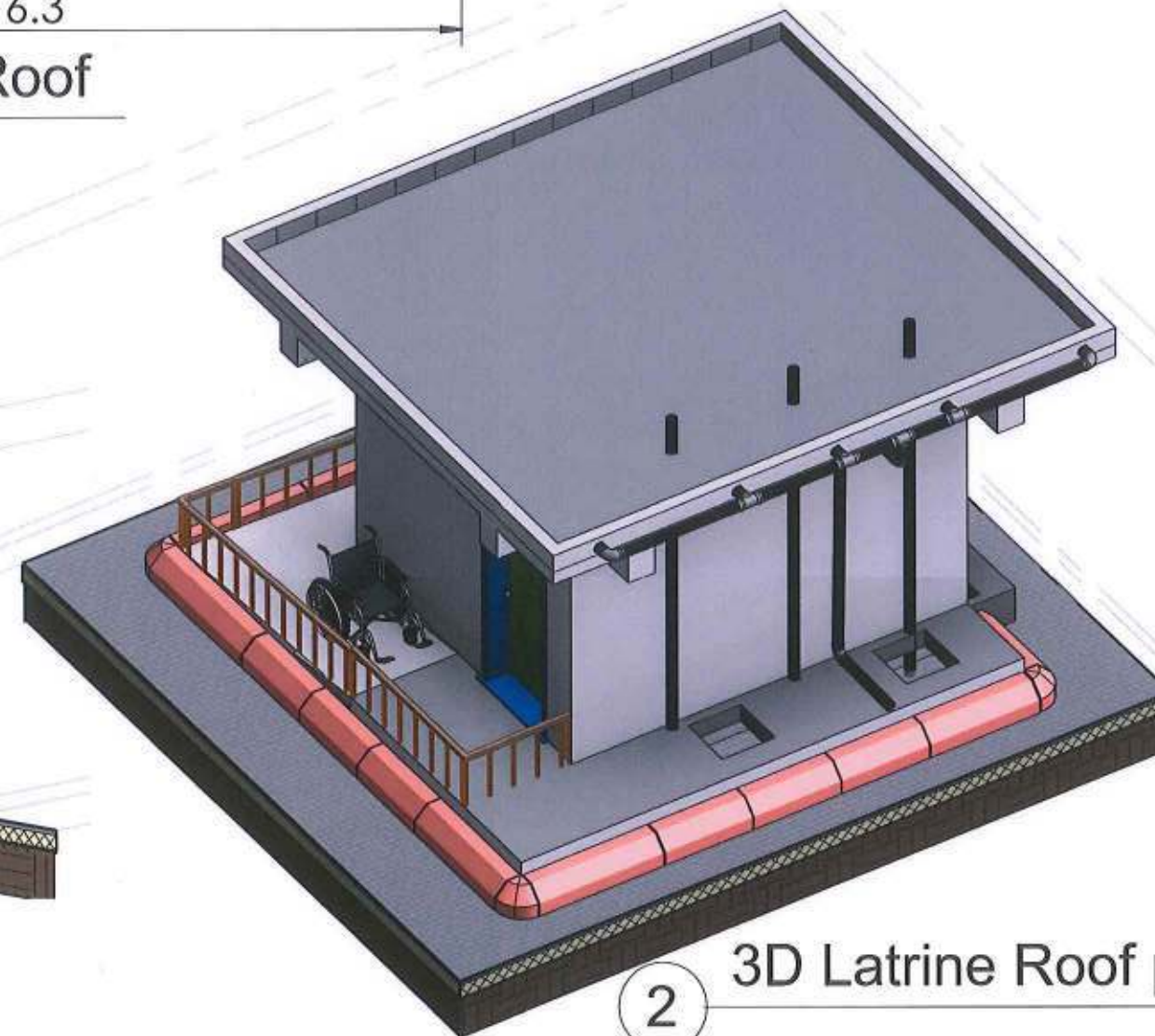




1 04-Latrine Roof
1 : 50

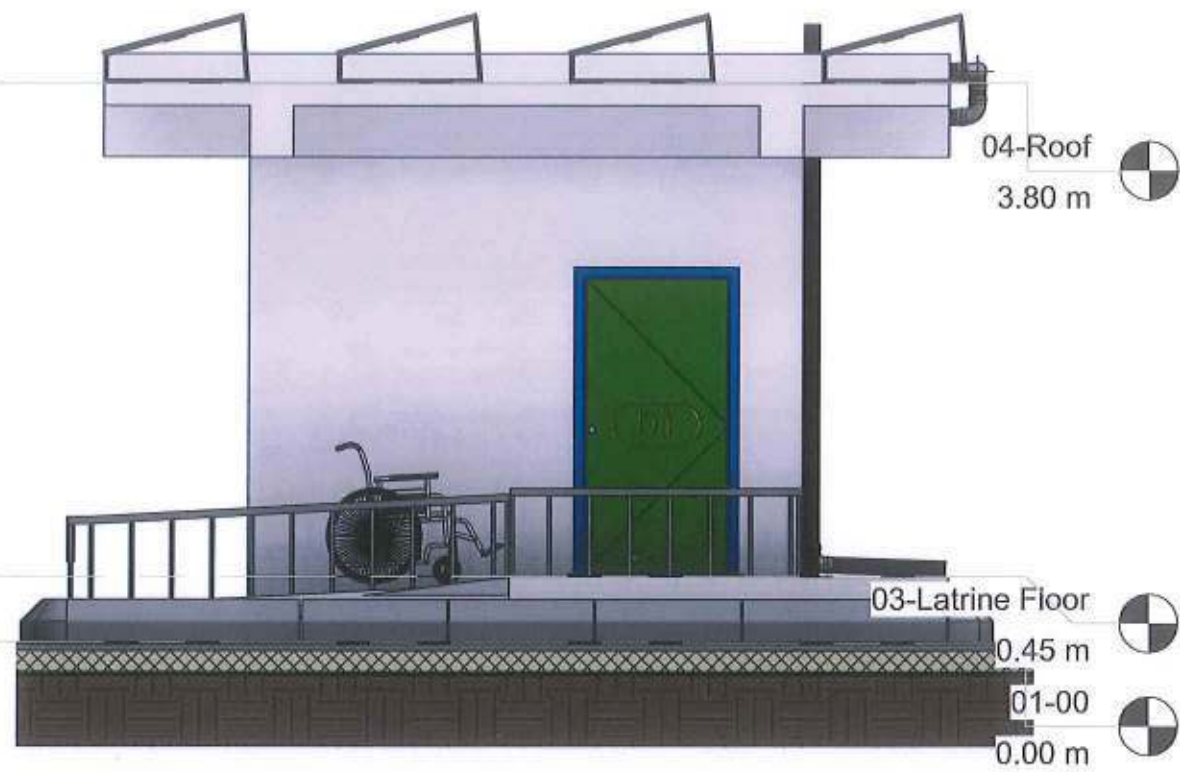


3 3D Latrine Roof pipe Copy 1

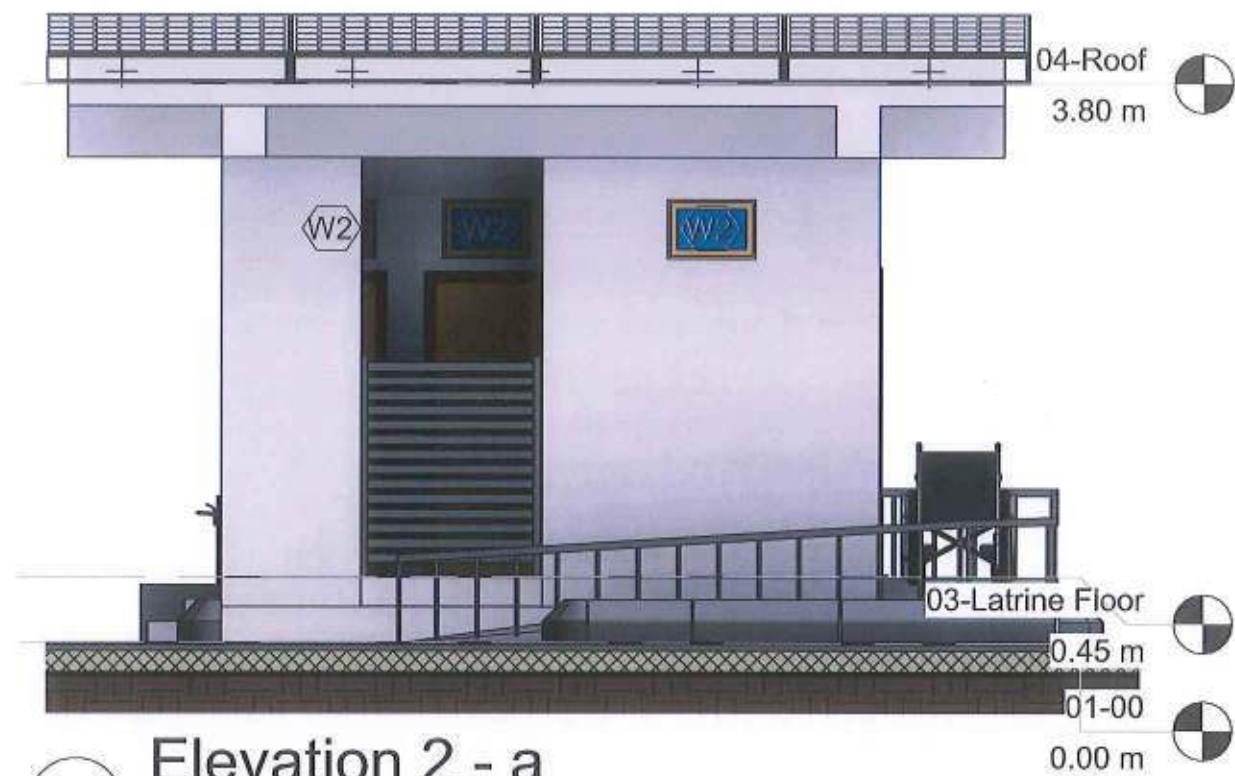


2 3D Latrine Roof pipe

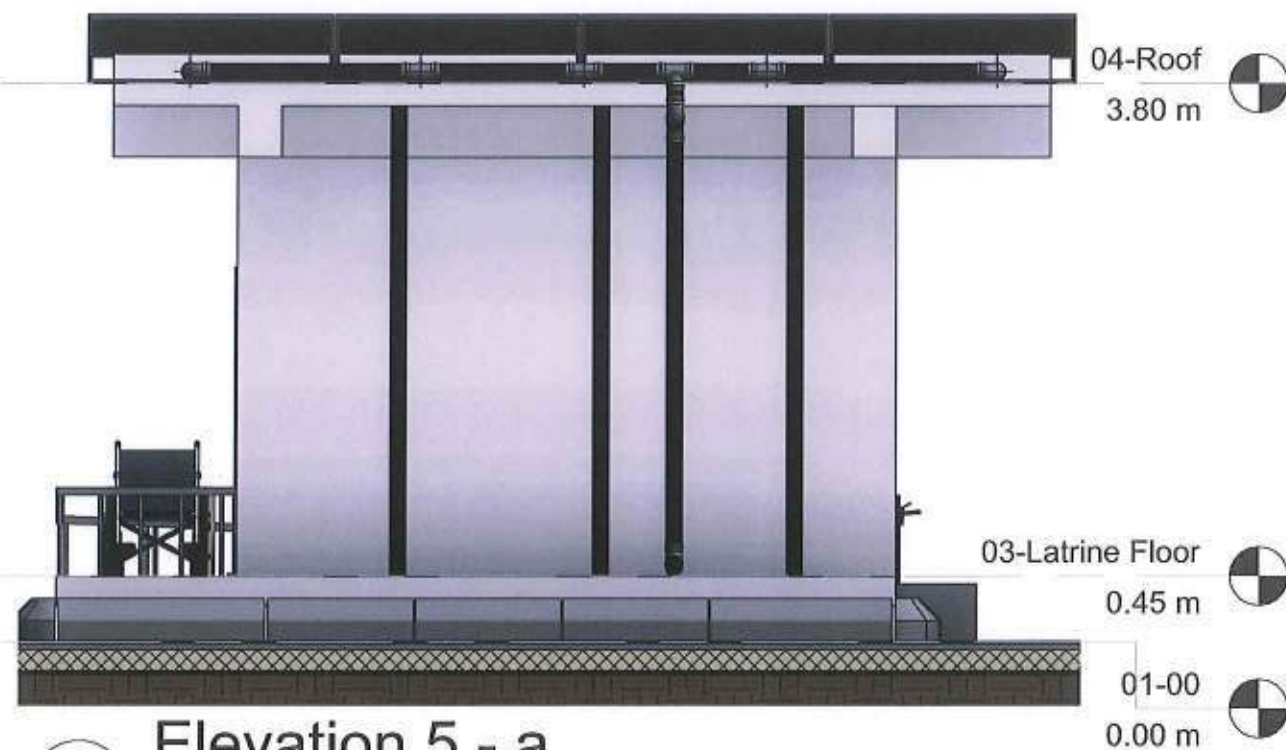
<p>AICS-Italian Agency for Development Cooperation - SDN 13 Project St. no 33 Amaral, House no 25 Block 12 K-east Khartoum, SUDAN</p>	
<p>AL-Amaral Mohamed Najeeb Street, Khartoum</p>	
<p>TEL: +249925451234 +249115418666</p>	
<p>EMAIL: DQTC.ENGINEERING@GMAIL.COM</p>	
<p>PROGRAM TITLE: T05-EUTF-HOA-SDN-73-01</p>	
<p>PROJECT TITLE: HEALTH CENTER OF OTASH (NY06)</p>	
<p>LOCATION: SOUTH DARFUR NORTHERN NYALA</p>	
<p>STRUCTURAL ENGINEER: [Signature]</p>	
<p>CHECKED BY: ENG. AMRAN MOHAMMED OTHMAN</p>	
<p>DRAWING TITLE: Latrine Roof Plan</p>	
<p>DATE: January 2022</p>	
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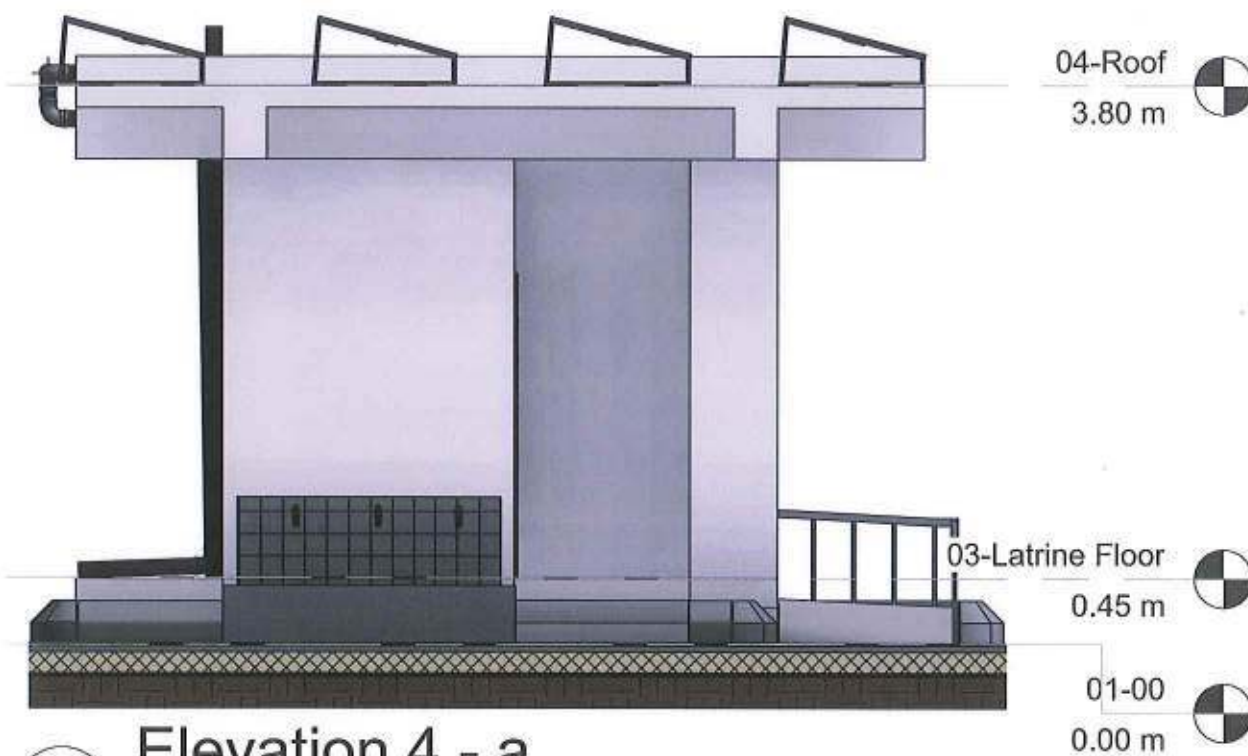
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1 : 50







5 Elevation 2 - a
1 : 50

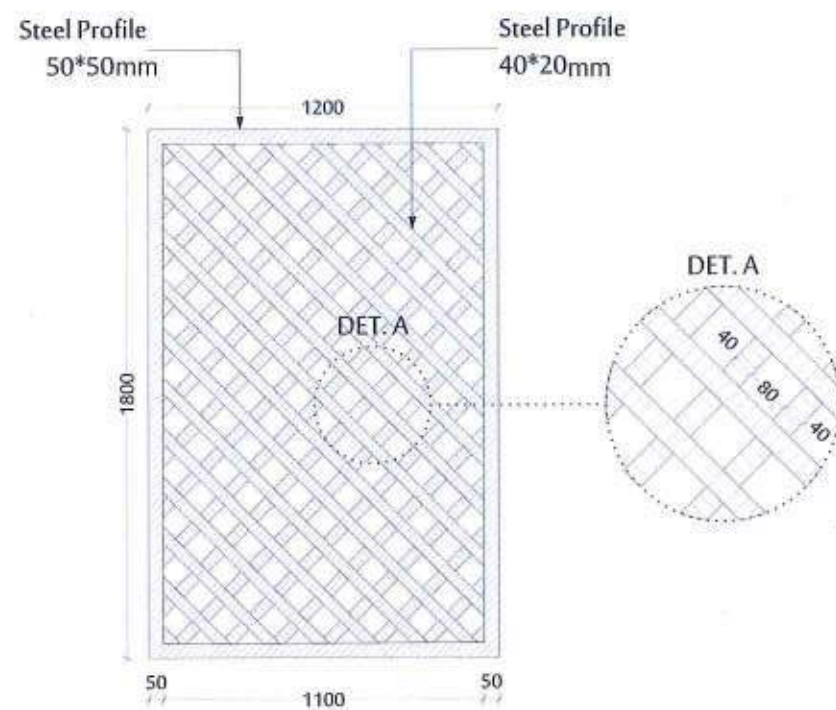


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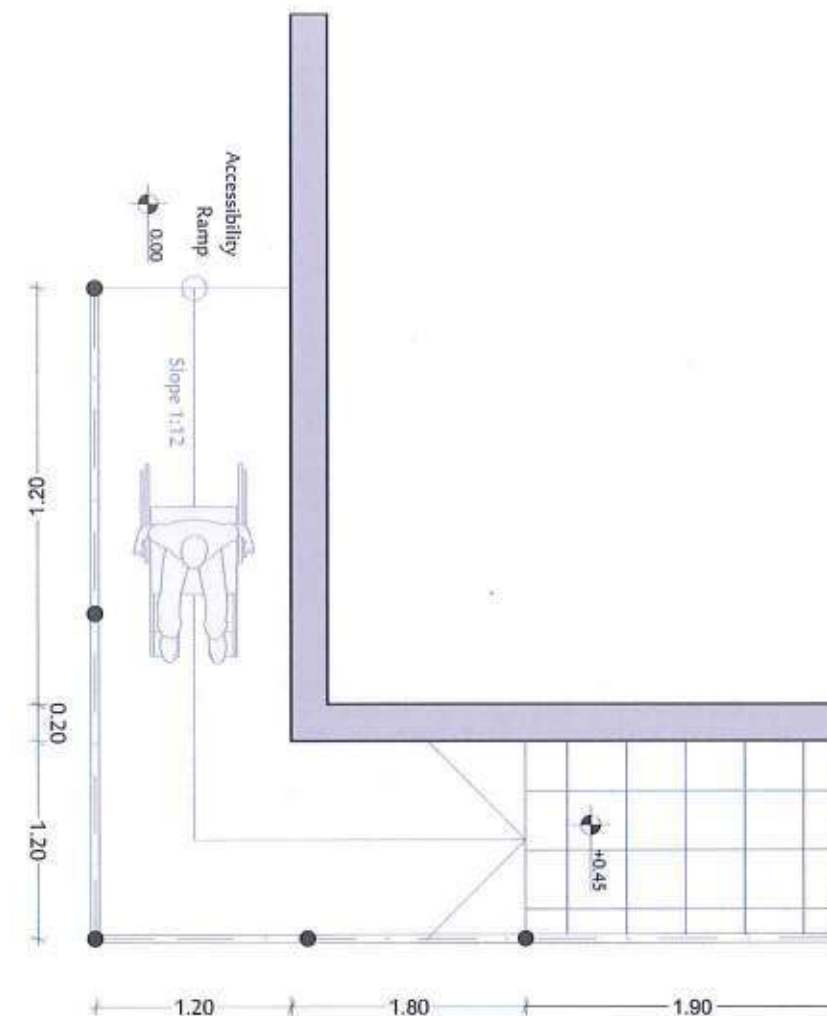


3 Elevation 4 - a
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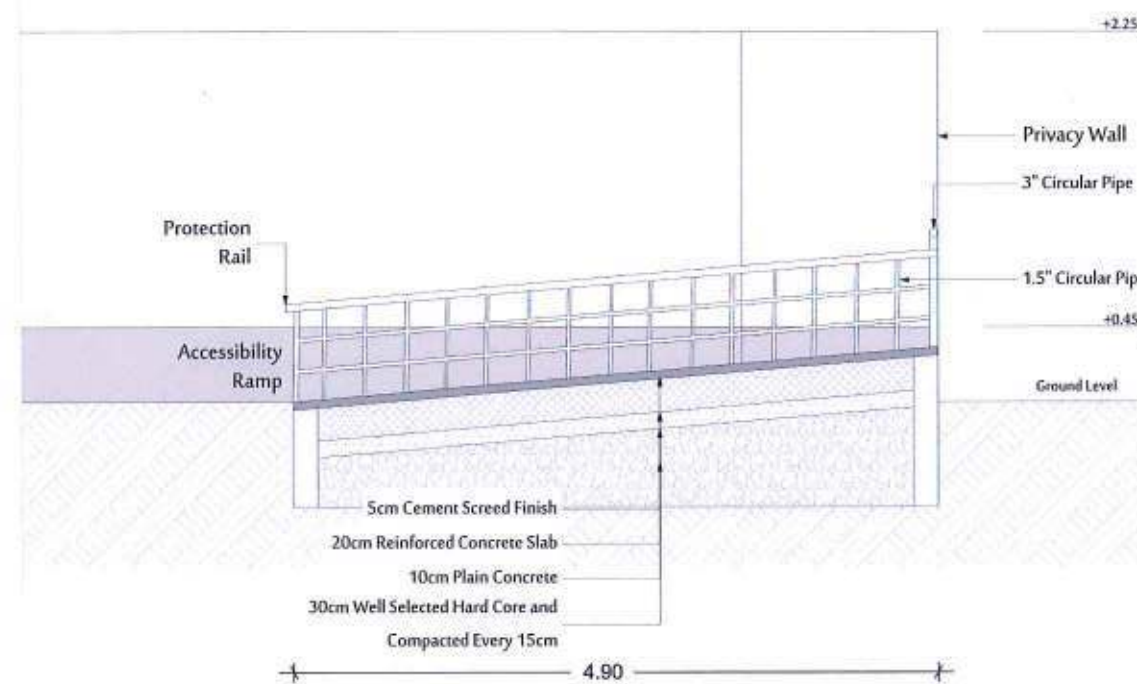
 		
AICS-Italian Agency for Development Cooperation - SDN 13 Project St. no 33 Amarat, House no 25 Block 12 K-east Khartoum, SUDAN		
AL-Amrat Mohamed Najeeb Street, Khartoum		
TEL: +249725451234 +249115418666		
EMAIL: DQTC.ENGINEERING@GMAIL.COM		
		
PROGRAM TITLE: T05-EUTF-HOA-SDN-73-01		
PROJECT TITLE: HEALTH CENTER OF OTASH (NY06)		
LOCATION: SOUTH DARFUR NORTHERN NYALA		
STRUCTURAL ENGINEER: ENG. Designer		
CHECKED BY: ENG. AMRAN MOHAMMED OTHMAN		
DRAWING TITLE: Latrine Elevations		
DATE: January 2022		
INDEX: T1_04	SCALE: 1 : 50	





MASHRABEYA DETAIL



RAMP PLAN




RAMP SECTION

AICS-Italian Agency for Development
 Cooperation - SDN
 13 Project St. no 33 Amarat, House no 25
 Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Nojeed Street, Khartoum
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 +249115418666
 EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DQTC ENGINEERING

PROGRAM TITLE:

105-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

ARCHITECTURAL ENGINEER:

ENG. Designer


CHECKED BY:

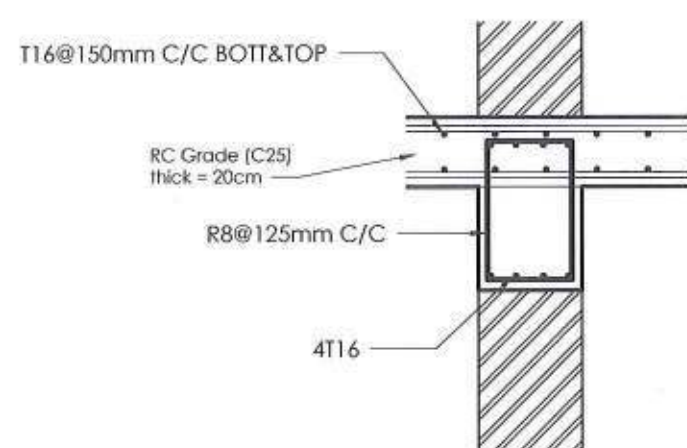
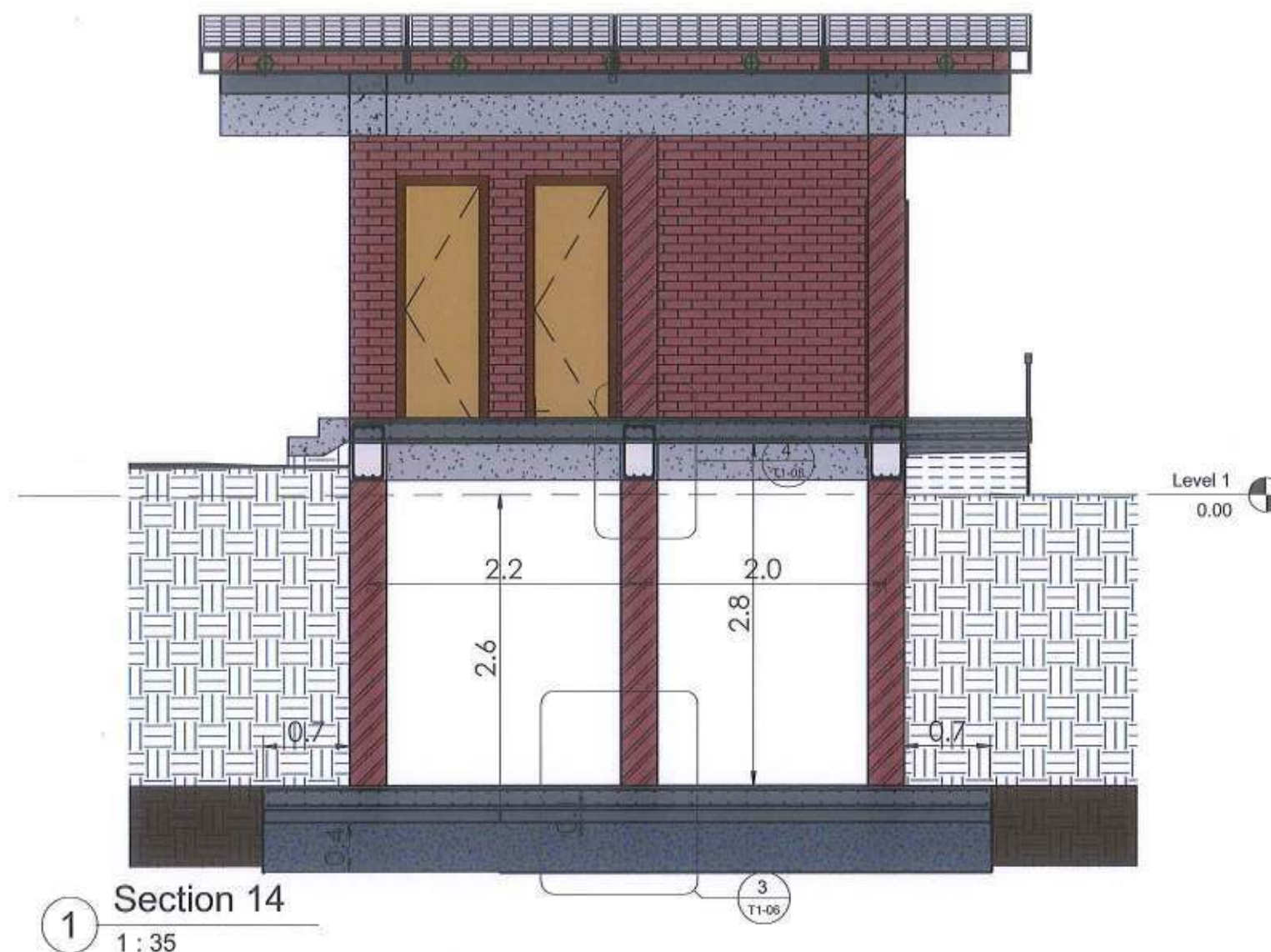
ENG. AMRAN MOHAMMED OTHMAN

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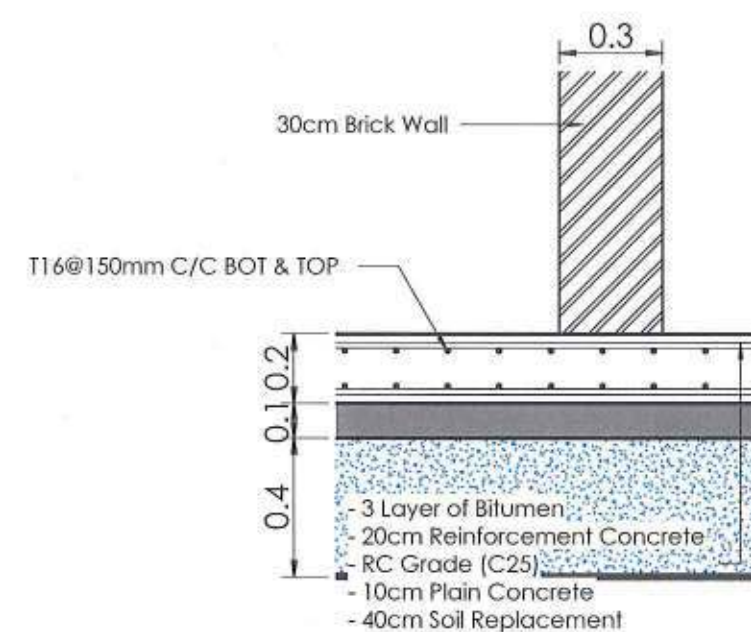
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DATE: January 2022

INDEX:	SCALE:	
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4 Section 14 - Callout 2
 1 : 15



3 Section 14 - Callout 1
 1 : 15

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF QASH (NN05)

LOCATION:

SOUTH DARFUR
Northern Nyala

ARCHITECT:

ENG.

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Well Details

DATE: January 2022

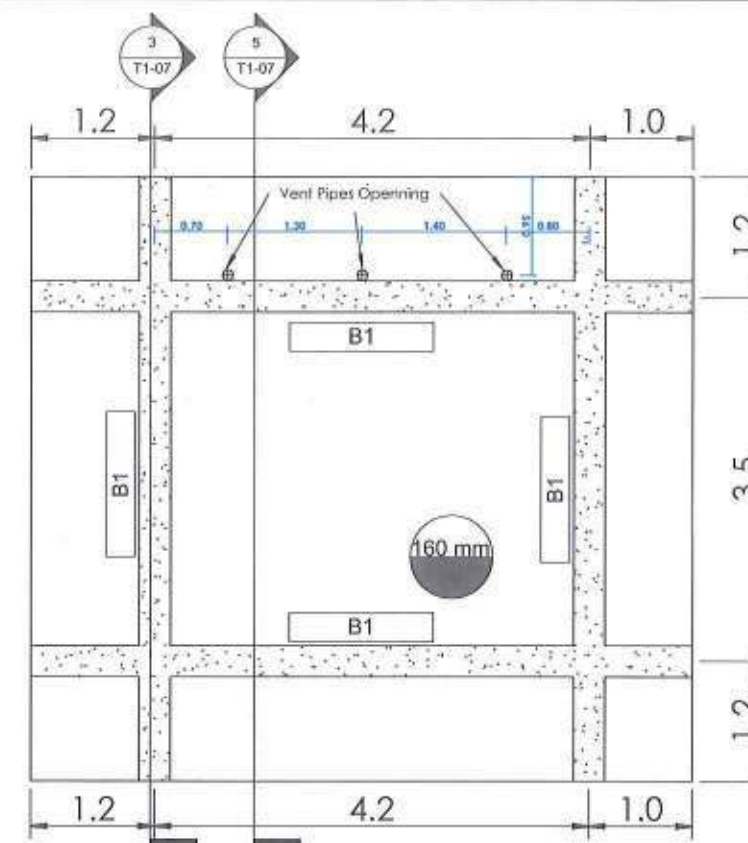
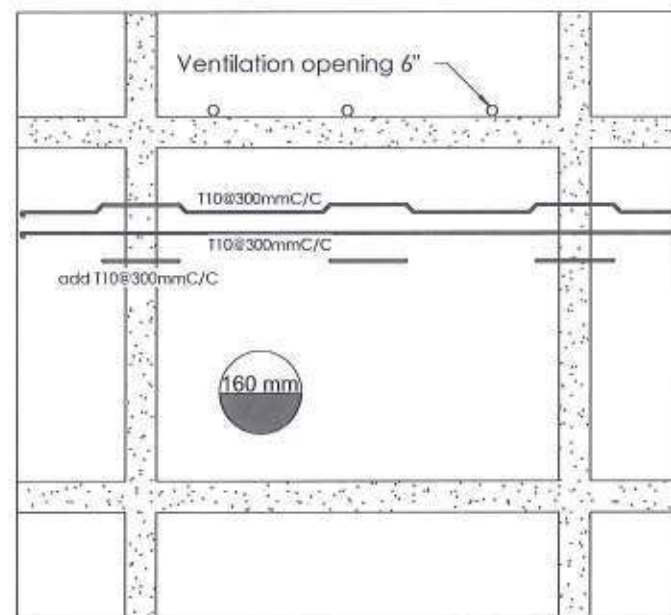
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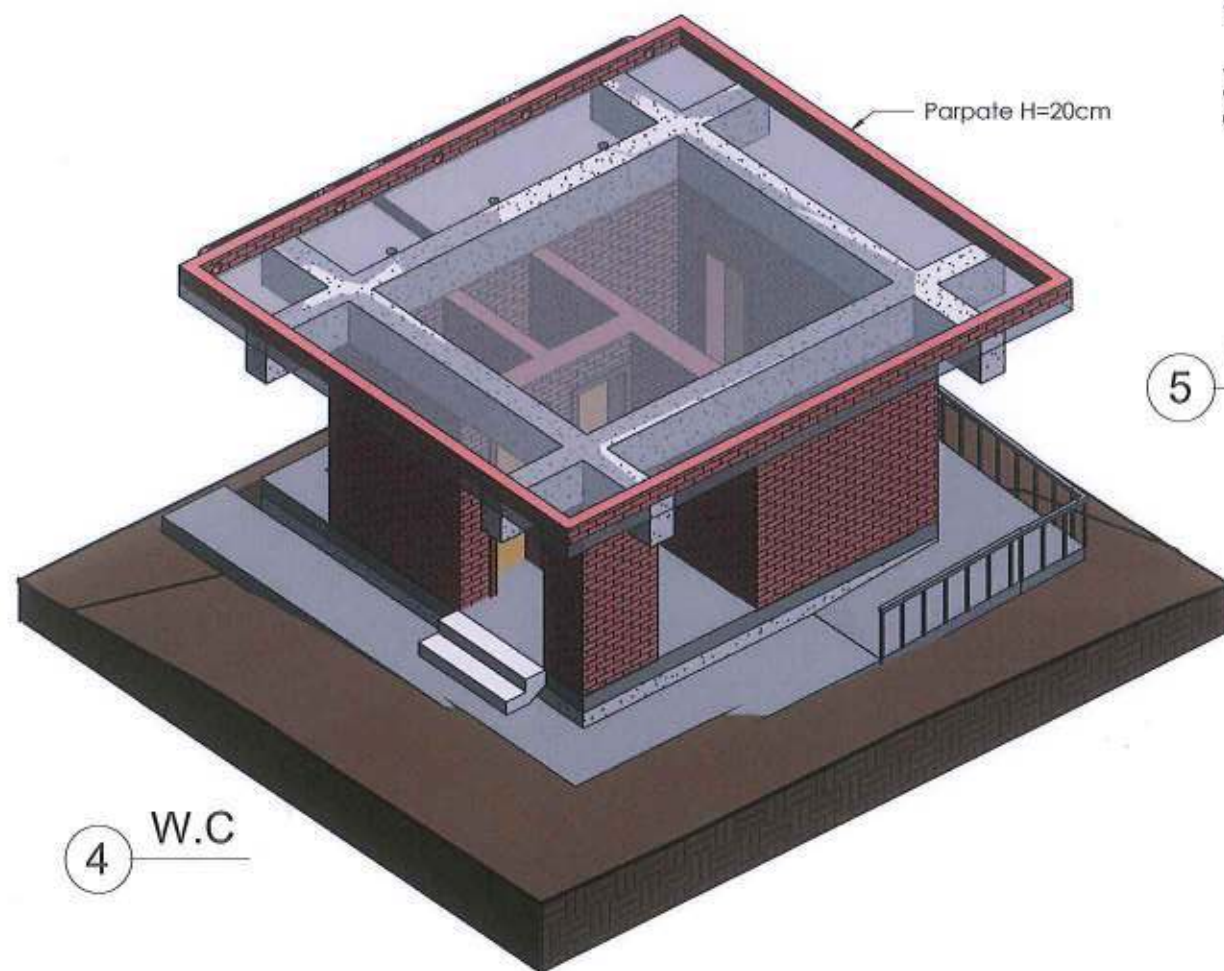
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As indicated

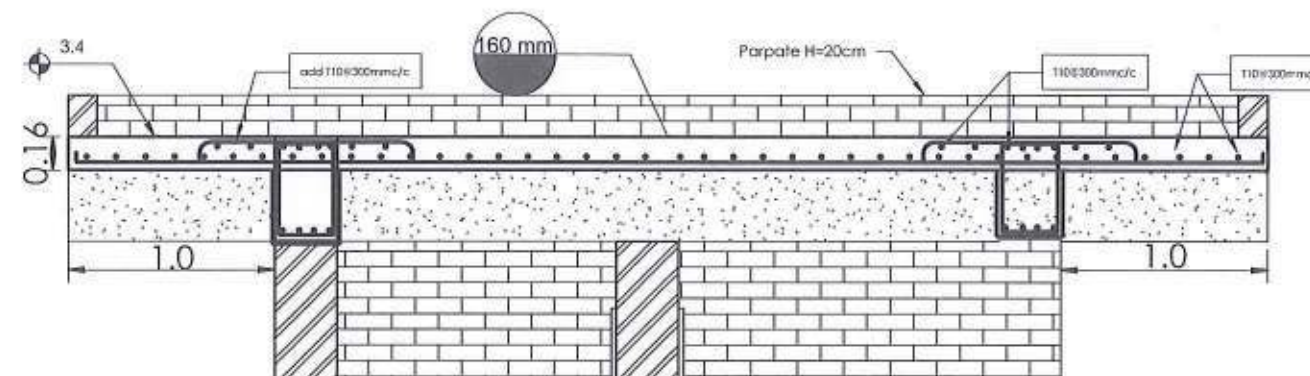




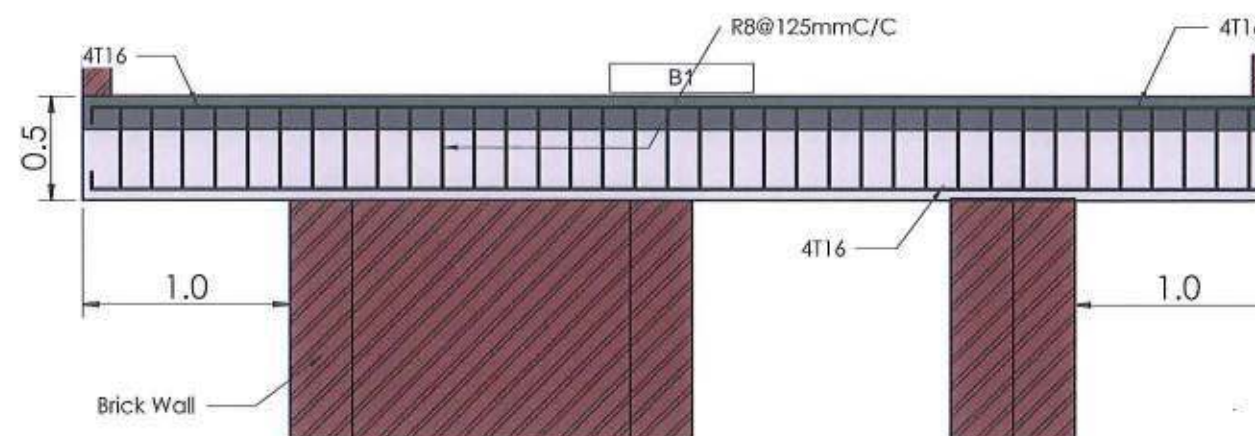
2 W.C Roof Reinforcement
1 : 50



1 W.C Roof
1 : 50



5 Section 1 Slab Reinf.
1 : 25



3 Section 14 Roof Beam
1 : 25



AICS-Italian Agency for Development
Cooperation - SDN
13 Project S1, no. 33 Amari, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum
TEL: +249925451234
+249115418666
EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE: ولاية

HEALTH CENTER OF OTASH-INYU

LOCATION:

SOUTH DARFUR
Northern Nyal

ARCHITECT:

ENG. Rabab Azhar-Eagle, Elreod

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

W.C. Roof Reinforcement

DATE: January 2022

INDEX:

T1-07

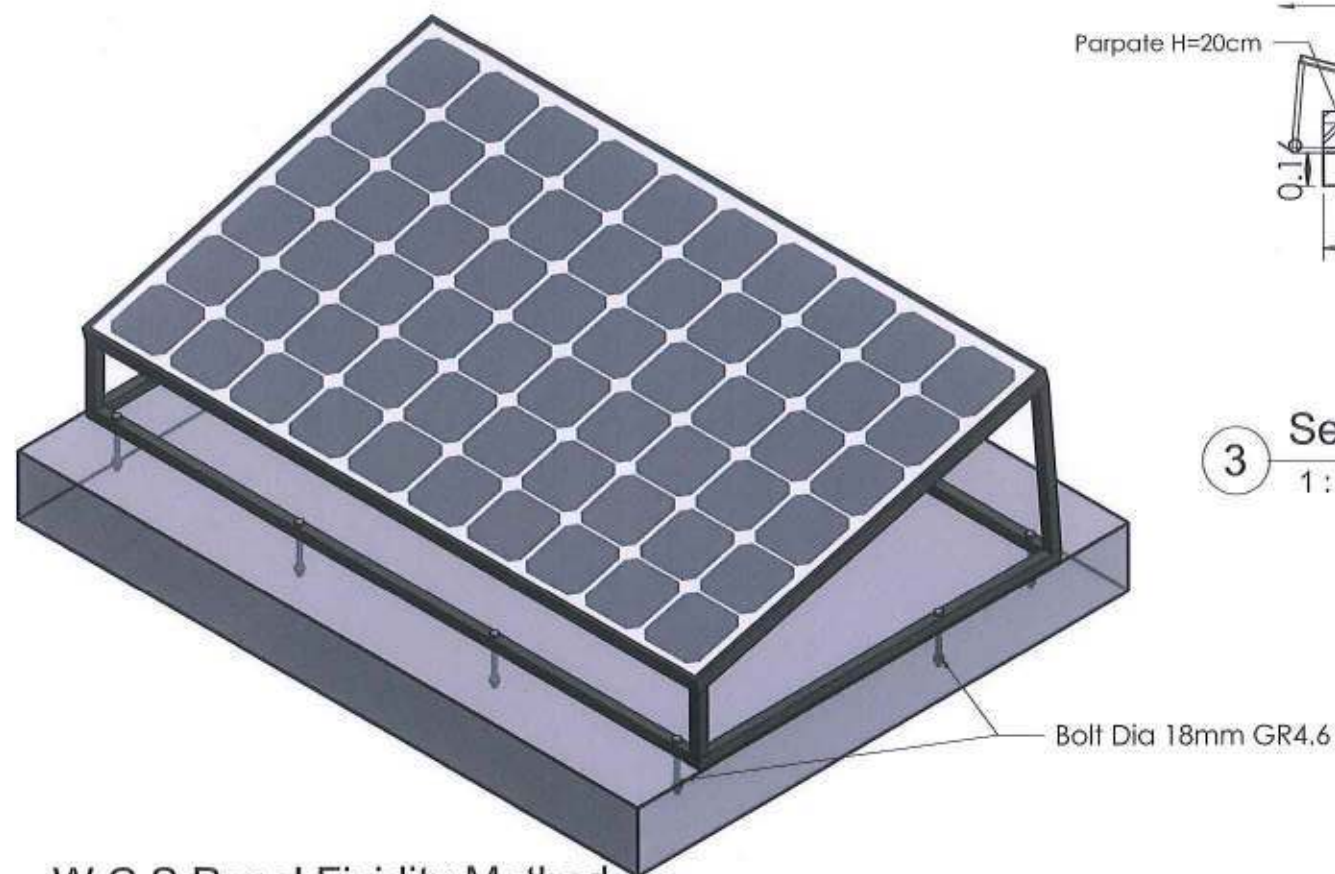
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As indicated



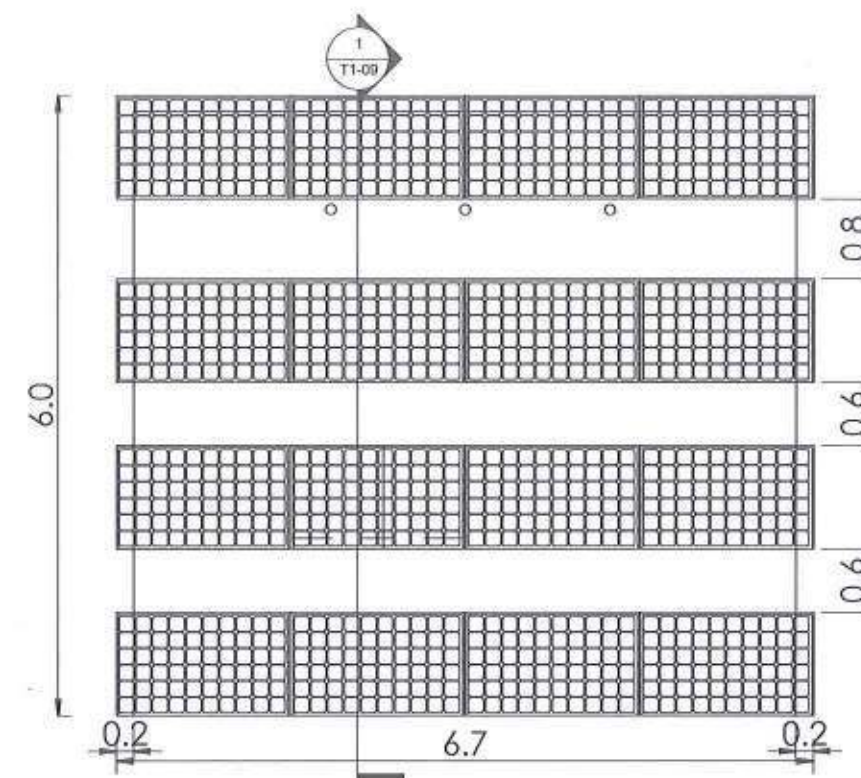


1 W.C S.Panel

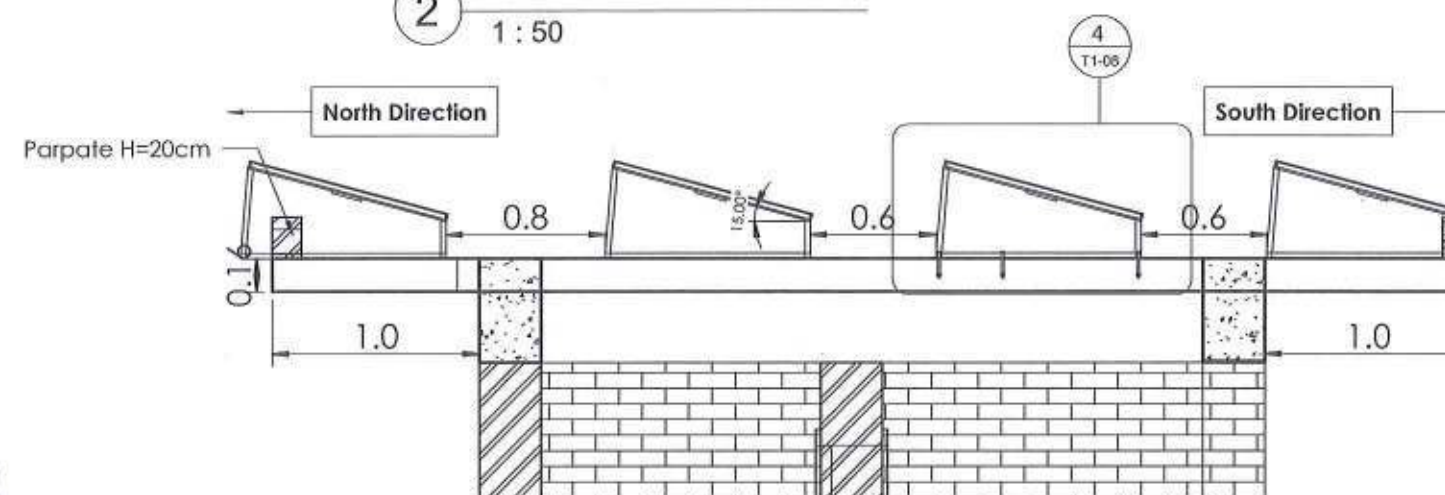


5 W.C S.Panel Fixidity Method

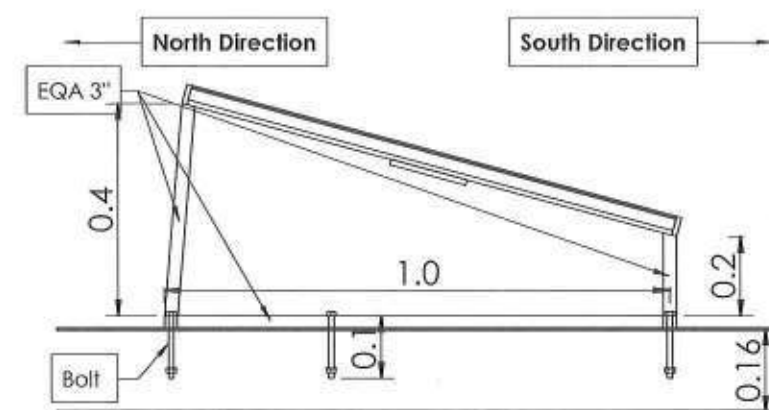
Note :
* After installing the Solar Panel frame,a rainwater insulating layer (Kafga) must be made.



2 W.C Roof S.Panel
1 : 50



3 Section 1 S.Panel Detaile
1 : 25



4 S.Panel Detaile - Callout 1
1 : 10

Parpate H=20cm

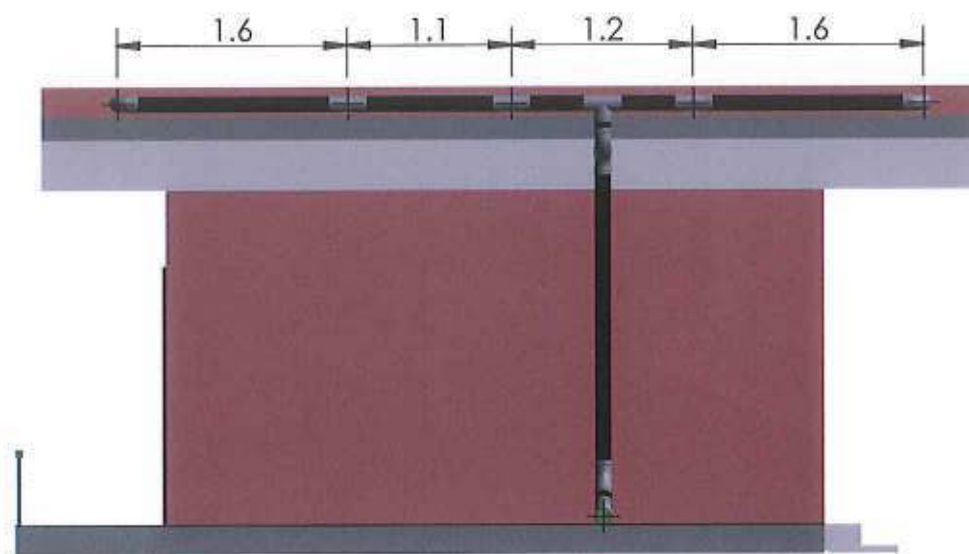
inslating layer (Kafga)
Slope 1:6

1.0

Down Pipe (PVC 4")

Section 1(rainwater down

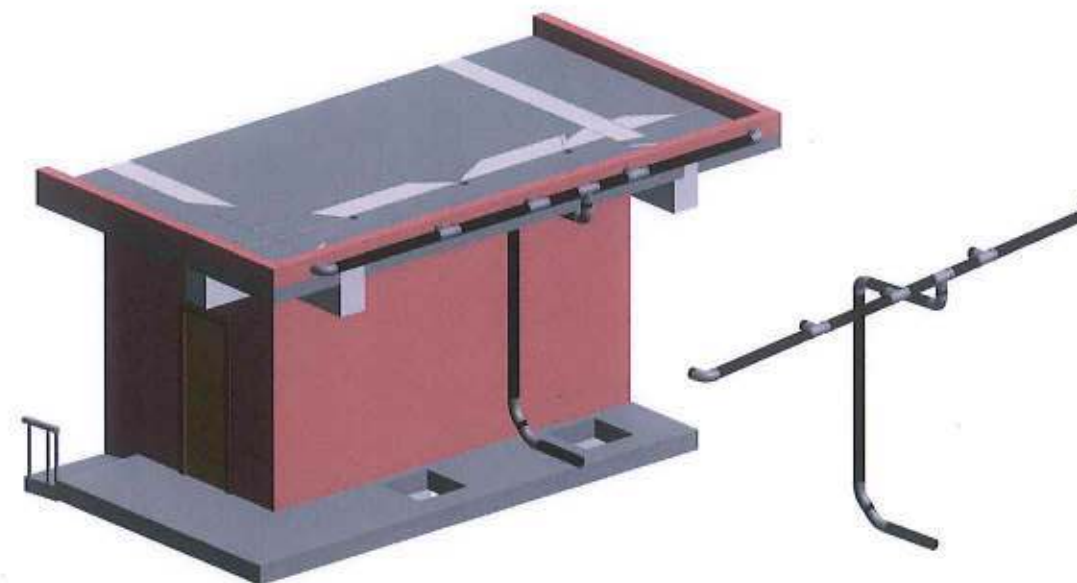
1 pipe)
1:25



Elevation 1 - a

2

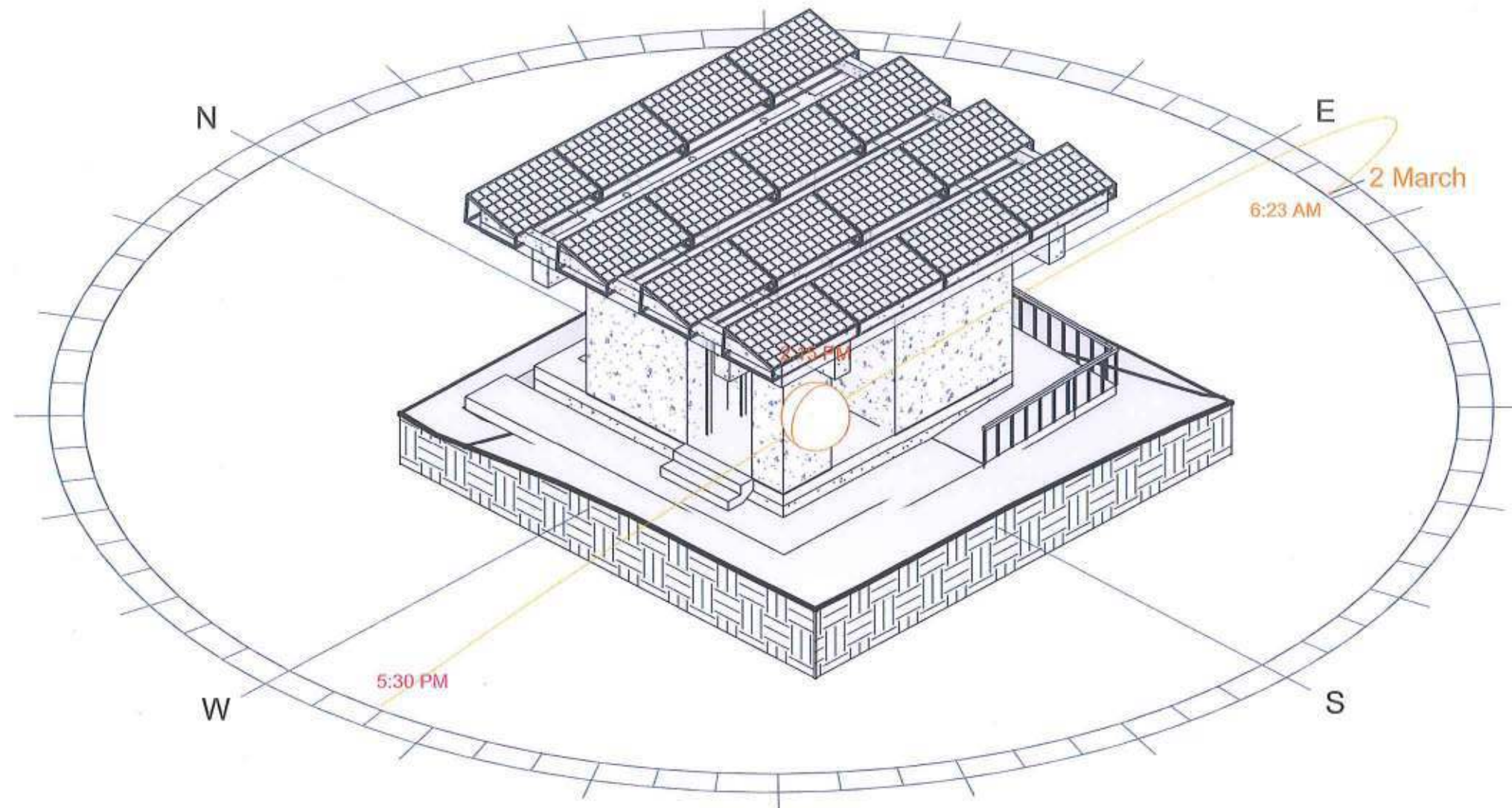
1:50



W.C (rainwater down pipe)

4

<p>AICS-Italian Agency for Development Cooperation - SDN 13 Project St. no 33 Amarat, House no 25 Block 12 K-east Khartoum, SUDAN</p>	
<p>Al-Amarat Mohamed Najeeb Street, Khartoum</p>	
<p>TEL: +249925451234 +249115418666</p>	
<p>EMAIL: DQTC.ENGINEERING@GMAIL.COM</p>	
<p>DOUBLE QTC ENGINEERING</p>	
<p>PROGRAM TITLE: T05-EUTF-HOA-SD-73-01</p>	
<p>PROJECT TITLE: HEALTH CENTER OF OTASH (NY06)</p>	
<p>LOCATION: SOUTH DARFUR Northern Nyala</p>	
<p>STRUCTURAL ENGINEER: ENG. IBRAHIM MOHAMMED IBRAHIM</p>	
<p>CHECKED BY: ENG. AMRAN MOHAMMED OTHMAN</p>	
<p>DRAWING TITLE: Rainwater system</p>	
<p>DATE: January 2022</p>	
<p>INDEX: T1-09</p>	<p>SCALE: As indicated</p>



1 Sun Path



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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeib Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE QTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF QIASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Sun Path 3D View

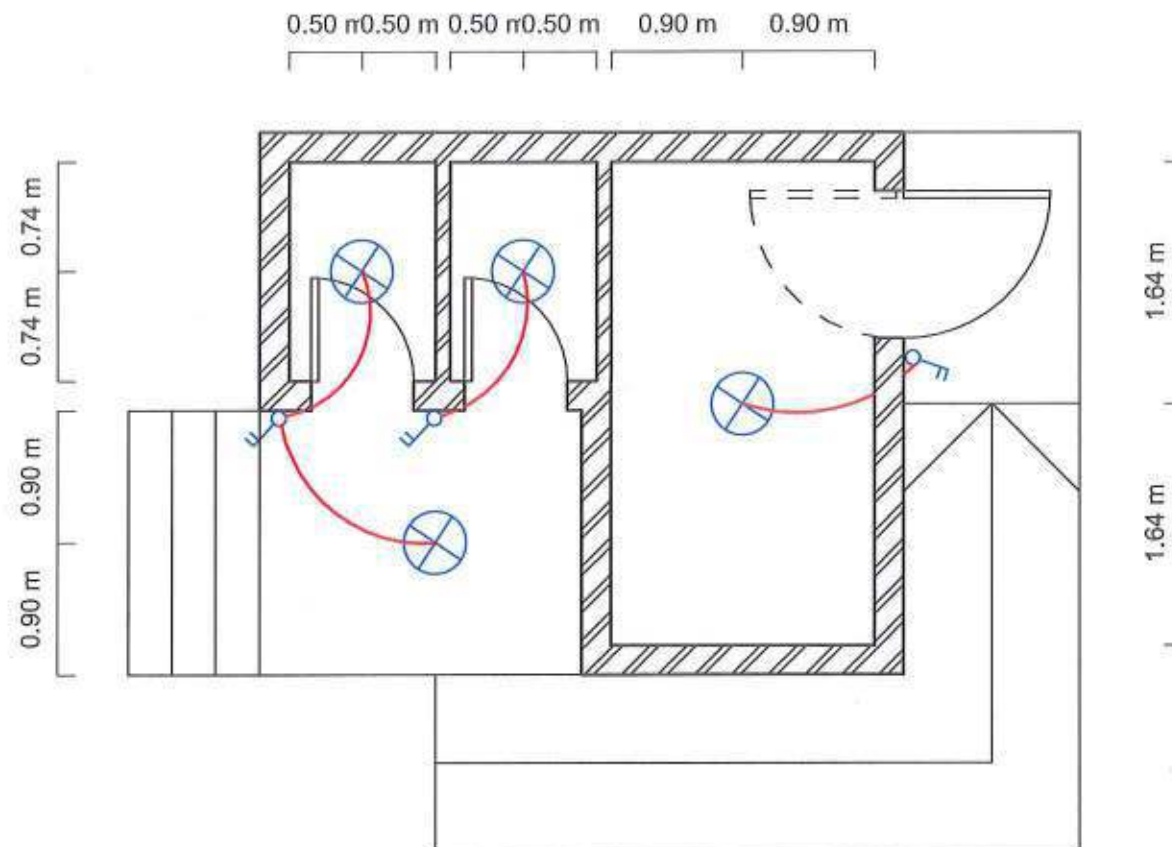
DATE: January 2022





INDEX:

T1-10




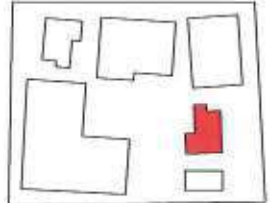
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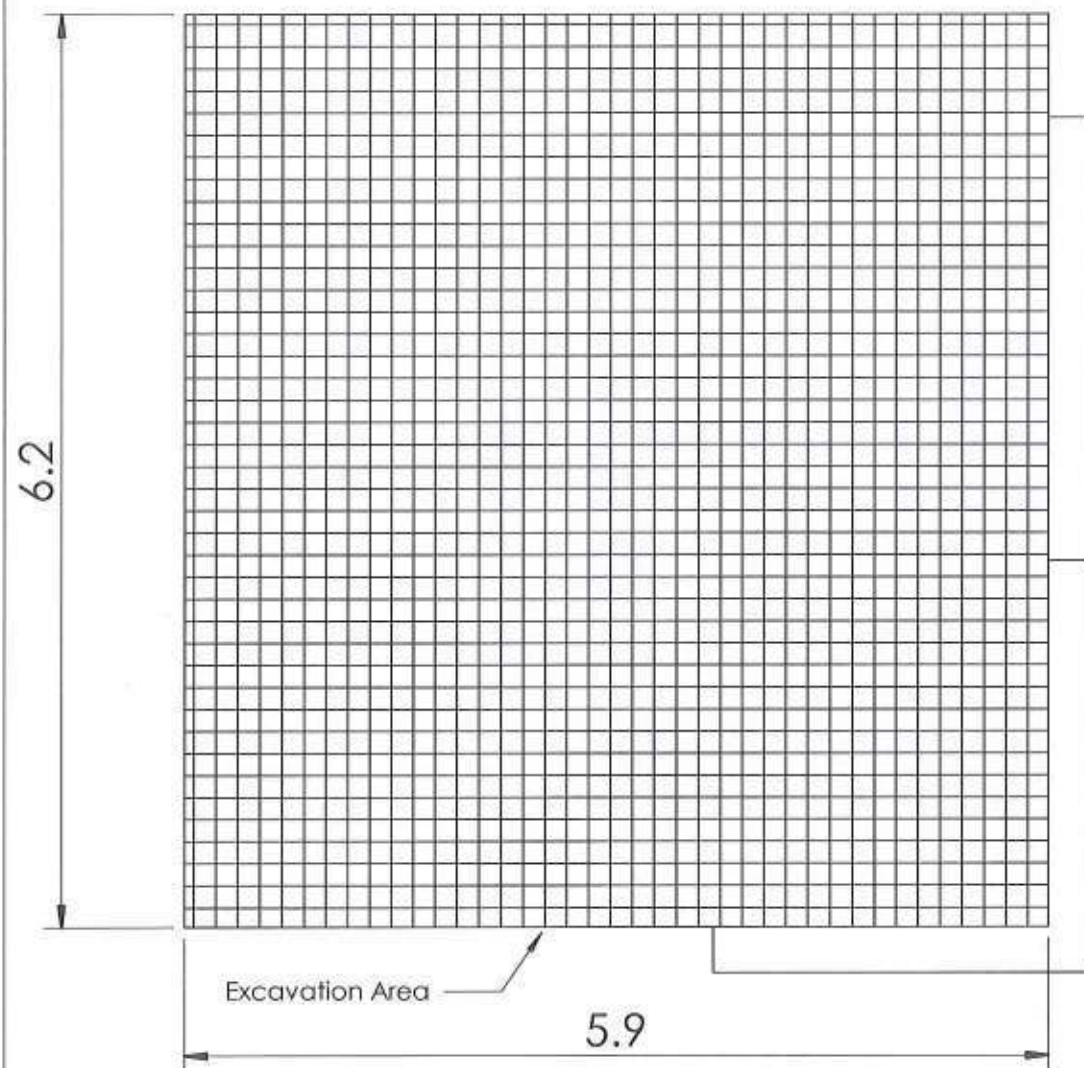




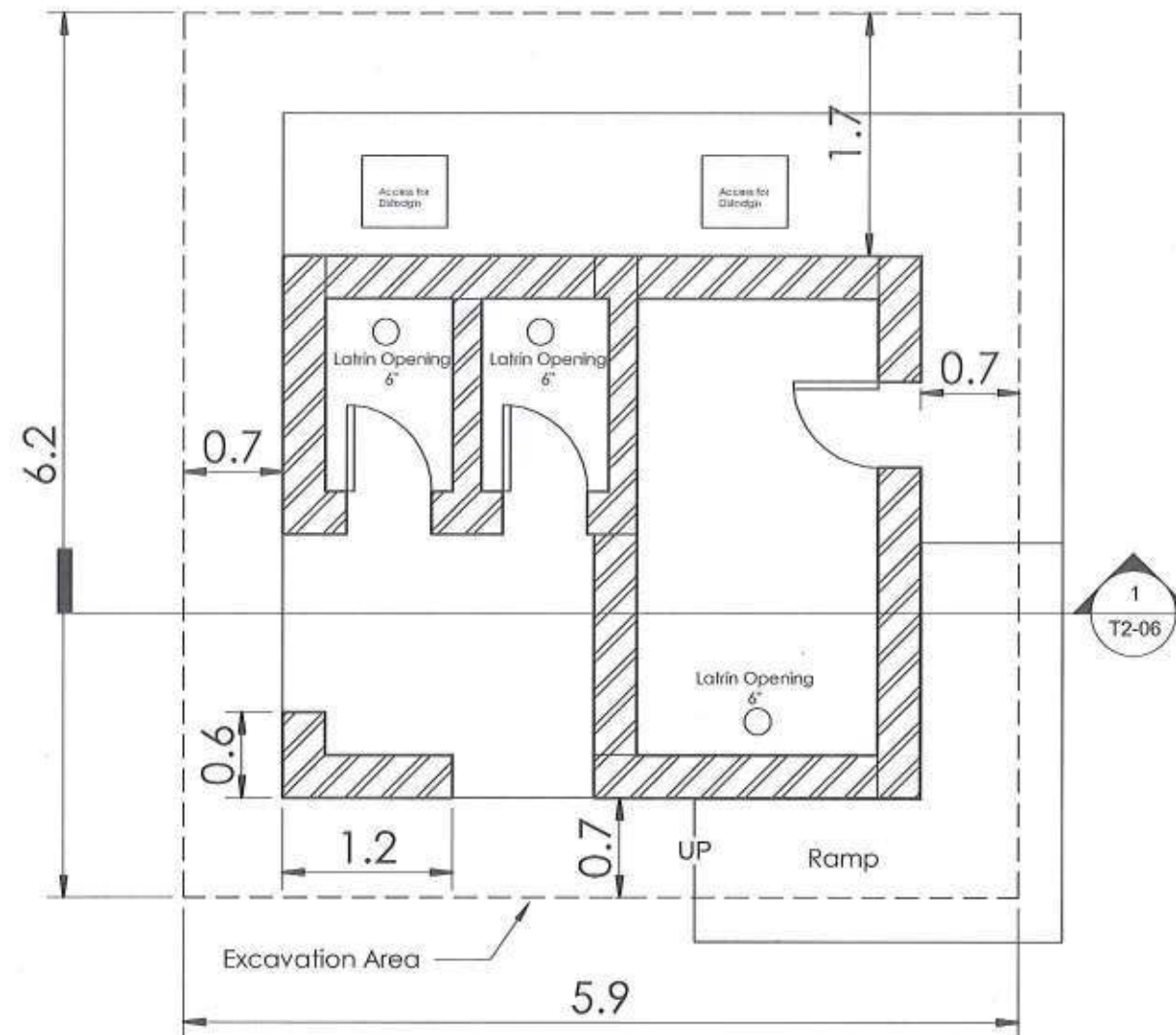
DESCRIPTION	
	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	CEILING LAMP

1 MALE W.C.
1 : 50

 	
AICS-Italian Agency for Development Cooperation - SDN 13 Project St. no 33 Amarat, House no 25 Block 12 K-east Khartoum, SUDAN	
AL-Amarat Mohammed Najeeb Street, Khartoum TEL: +249925451234 +249115418666 EMAIL: DQTC.ENGINEERING@GMAIL.COM	
	
	
PROGRAM TITLE: TOS-EUF-HOA-SD-73-01	
PROJECT TITLE: HEALTH CENTER OF OTASH (NY06)	
LOCATION: SOUTH DARFUR, NORTHERN NYALA	
ELECTRICAL ENGINEER: ENG. MOHAMMED SALAH ALKHEIR	
CHECKED BY: ENG. AMRAN MOHAMMED OTHMAN	
DRAWING TITLE: BLOCK T1 ELECTRICAL LAYOUT	
DATE: JANUARY 2022	
INDEX: T1_11	SCALE: 1 : 50



2 Excavation Area T2
1 : 50



1 W.C Well T2
1 : 50



AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amaral, House no 25
Block 12 K-east Khartoum, SUDAN

Al-Amaral Mohamed Najeeb Street, Khartoum

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+249115418666

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DOUBLE QTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Latrine Under Ground - Excavation
Plan.

DATE: January 2022

INDEX:

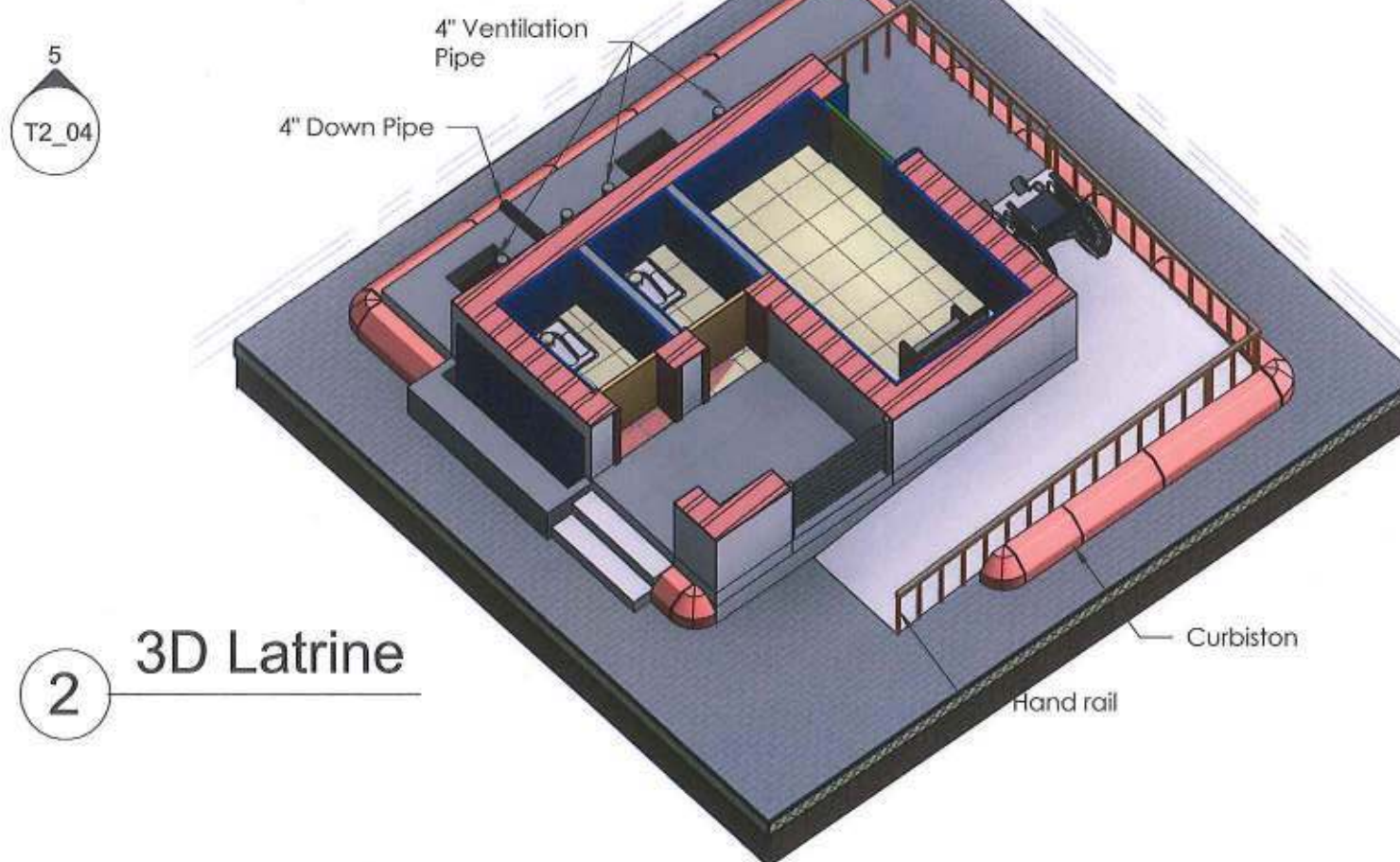
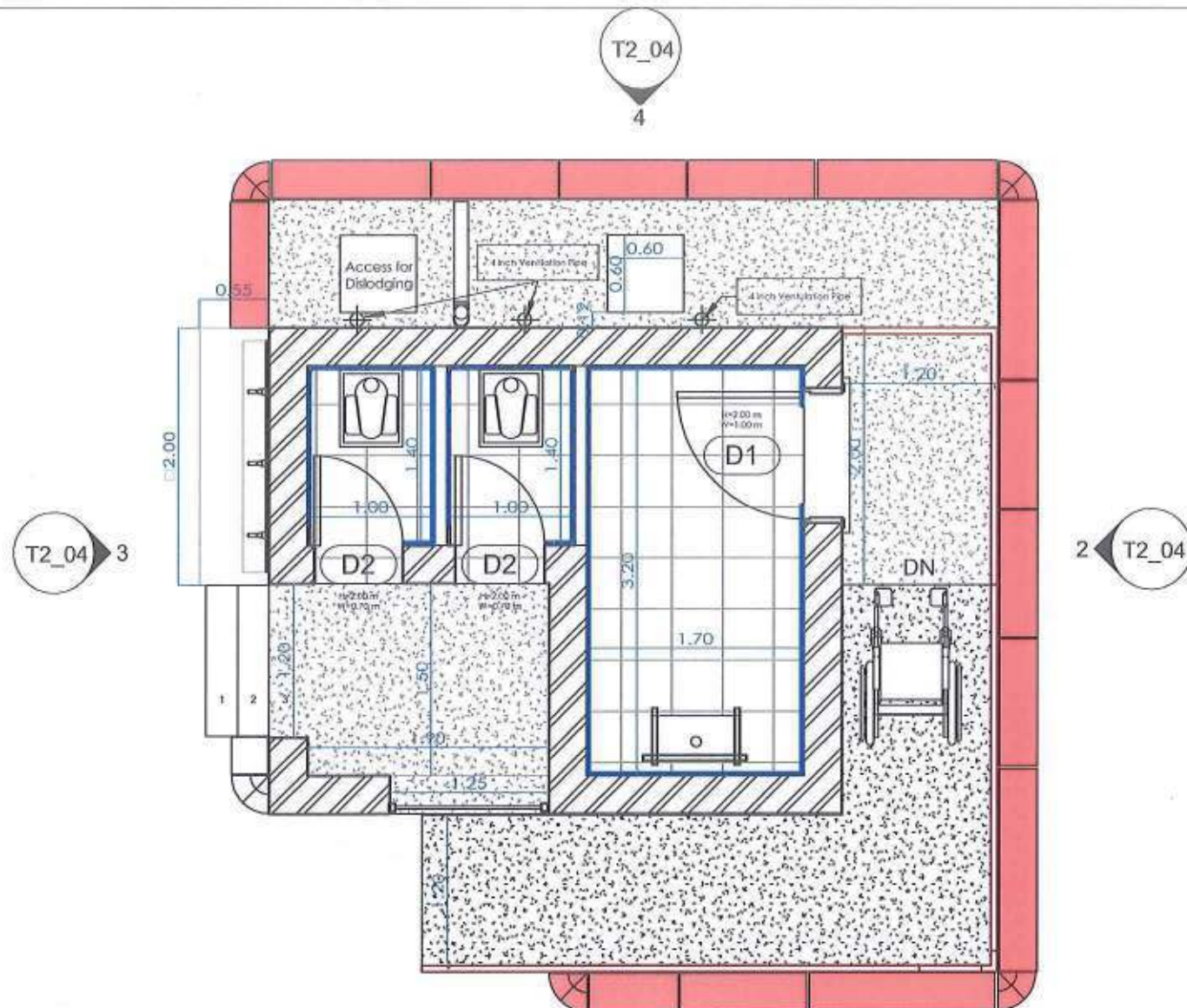
T2-01

SCALE:

1 : 50



1 03-Latrine Floor 1 : 50



2 3D Latrine

Legend

	new internal flooring (+0.45) with ceramic tiles (40x40cm)
	Screed cement finishing
	Hand rail
	wall ceramic tiles (15x15cm)
	Curbstone

PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

STRUCTURAL ENGINEER:

ENG. Designer

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Latrine Ground Floor Plan

DATE: January 2022

INDEX:

T2_02

SCALE:

1 : 50



4 inch pipe

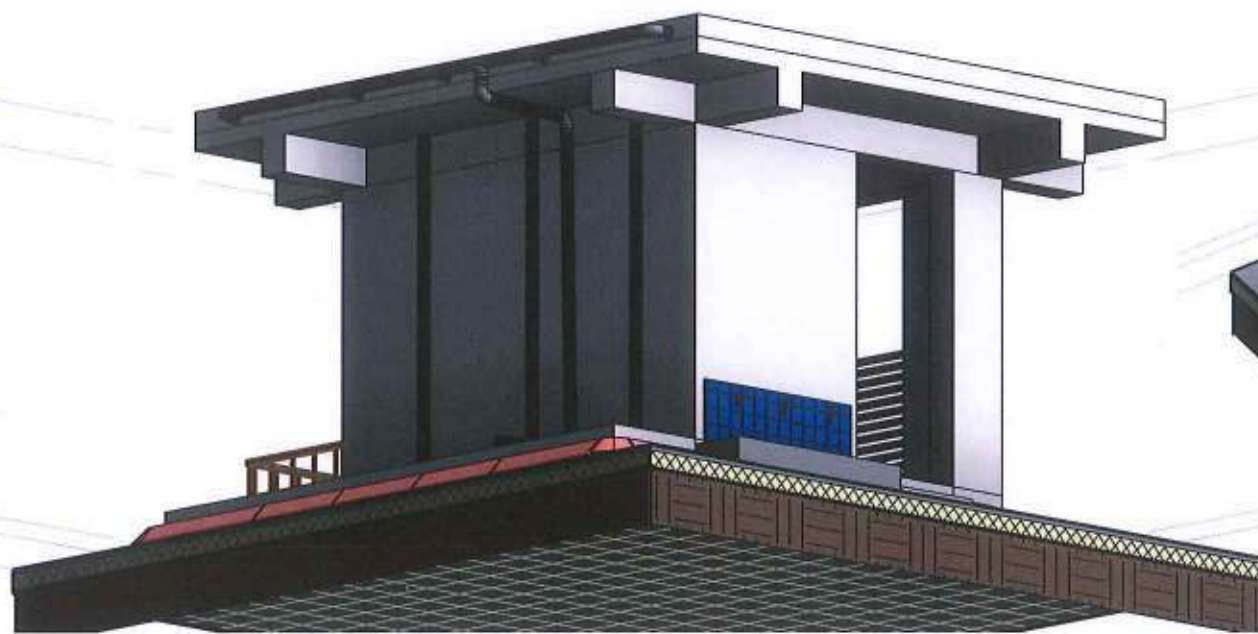
T2_04 3

5.7

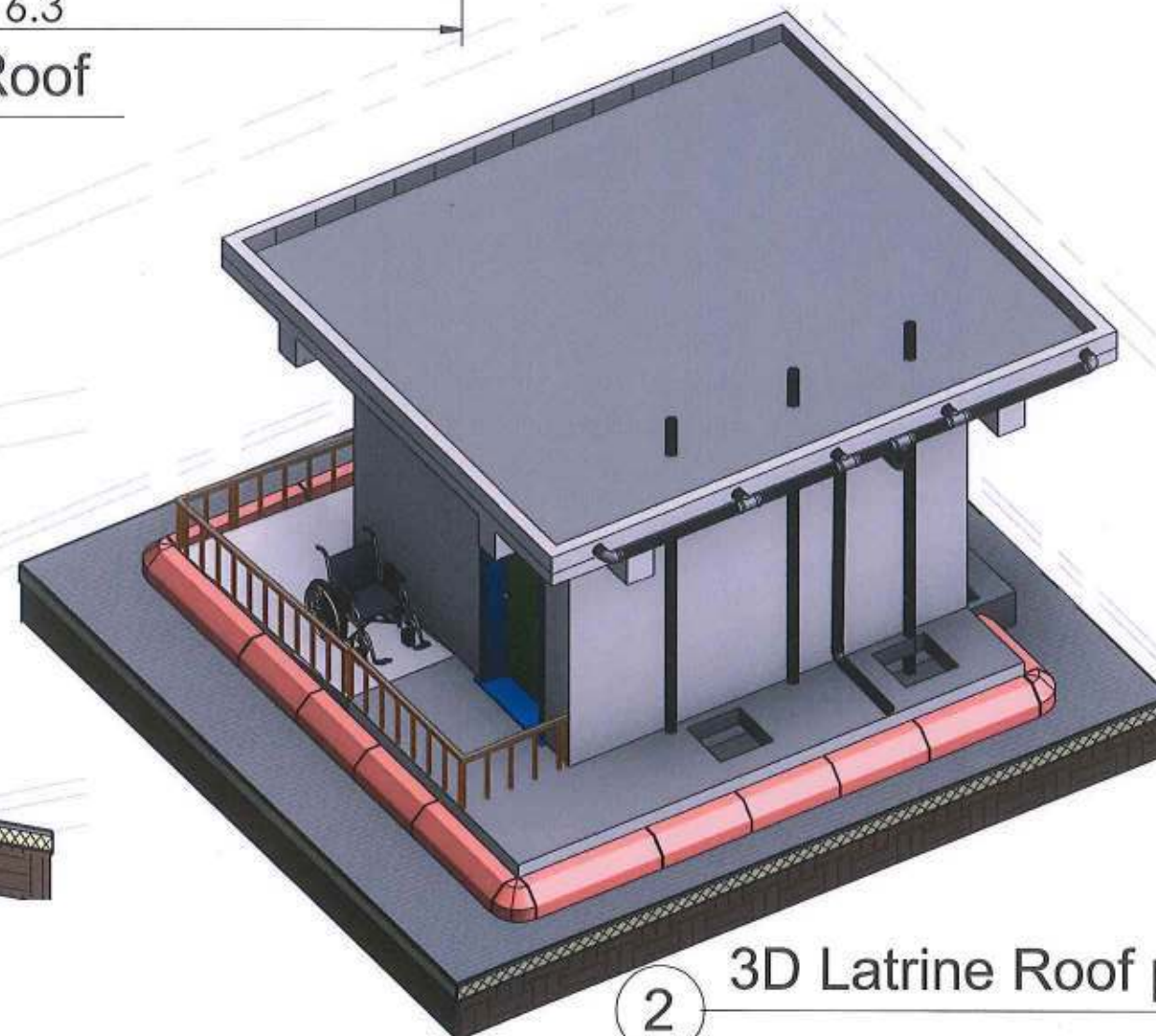
6.3

Concrete Slab with good drainage system

1 04-Latrline Roof
1 : 50



3 3D Latrine Roof pipe Copy 1



2 3D Latrine Roof pipe



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PROGRAM TITLE:

T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

STRUCTURAL ENGINEER:

CHECKED BY:
ENC. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Latrine Roof Plan

DATE: January 2022

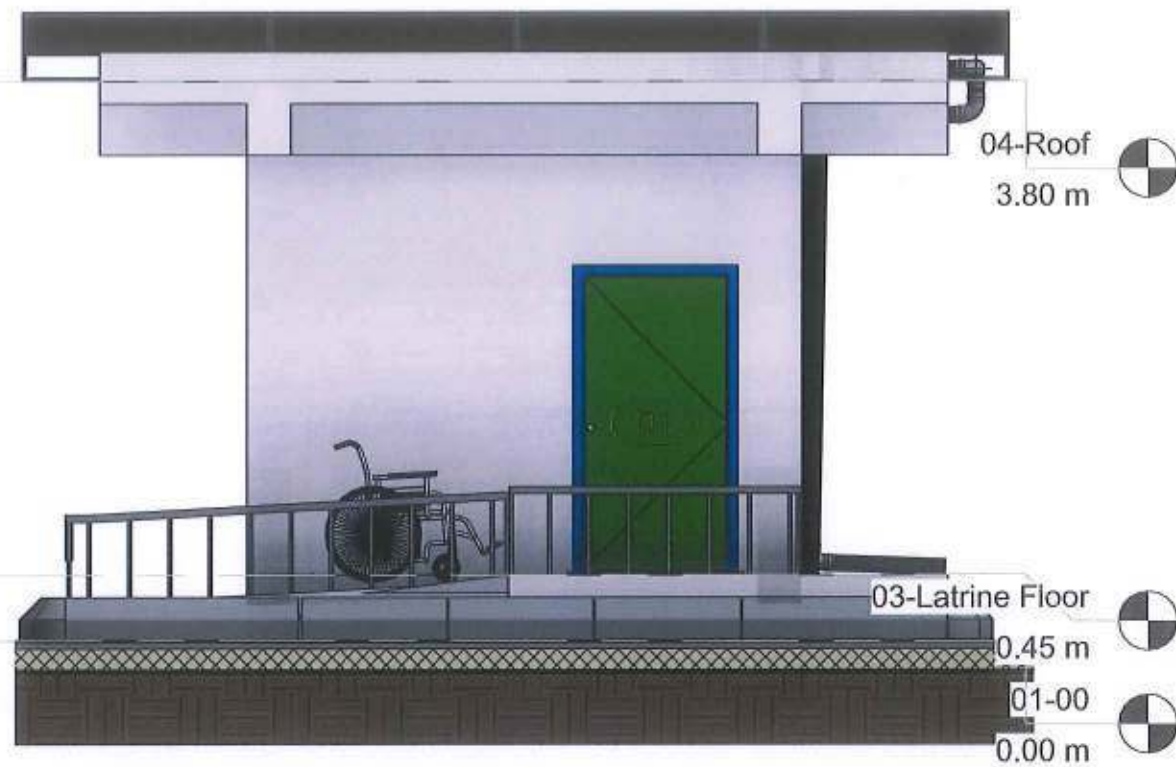
INDEX:

T2_03

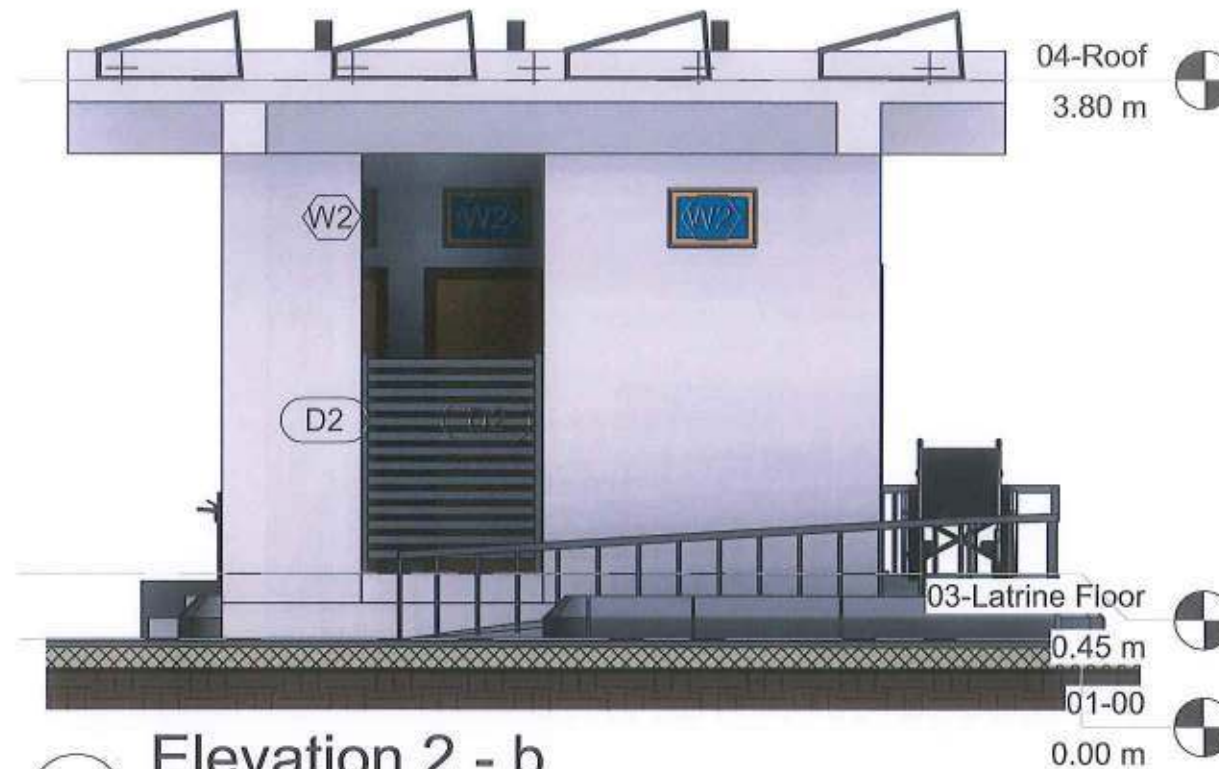
SCALE:

1 : 50

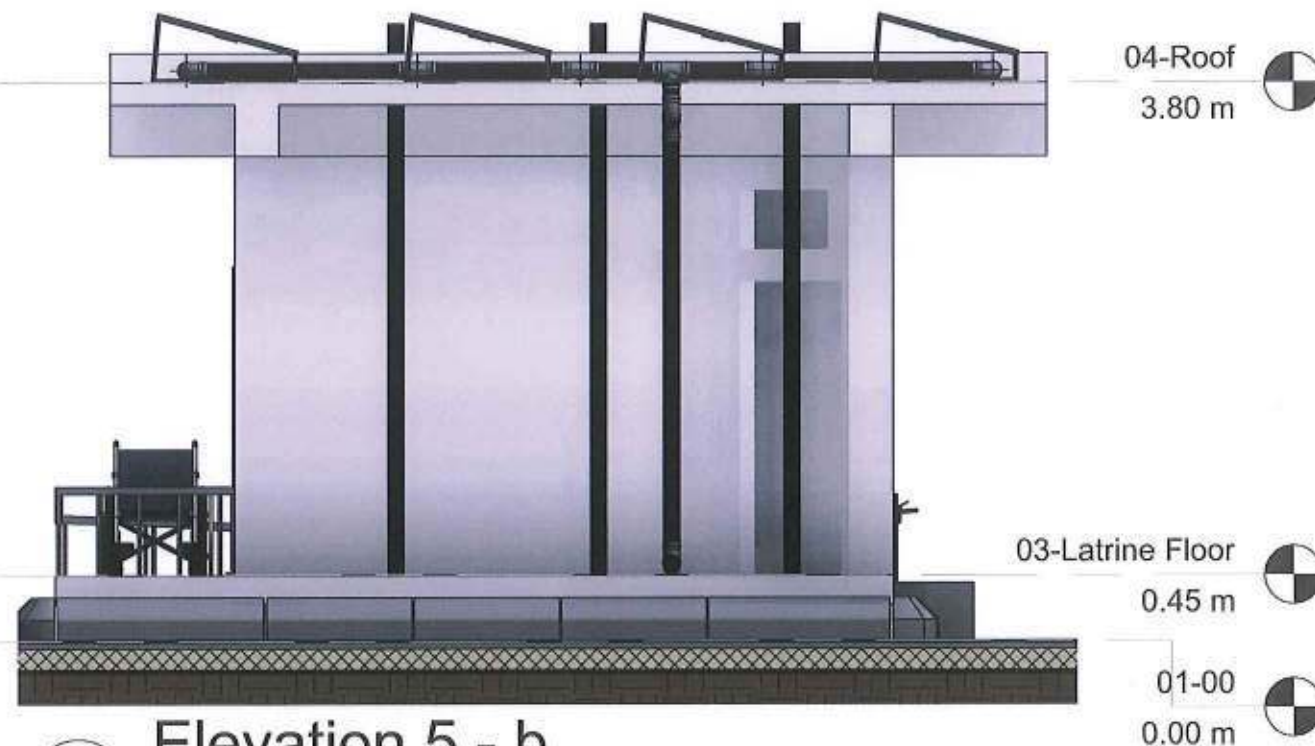




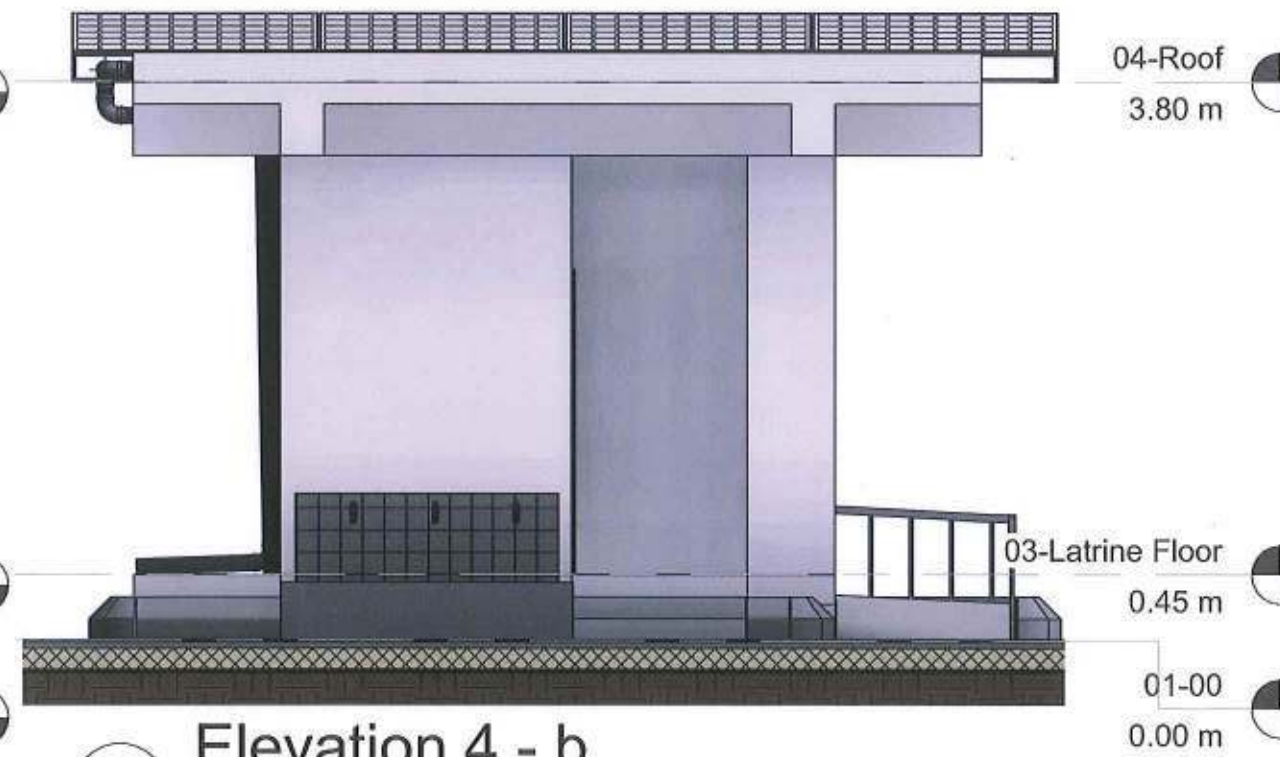
2 Elevation 3 - b
1 : 50





5 Elevation 2 - b
1 : 50



4 Elevation 5 - b
1 : 50



3 Elevation 4 - b
1 : 50





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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

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+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DQTC ENGINEERING

Door Schedule		
Type	Width	Height
D1	1.00 m	2.00 m

Window Schedule		
Type	Width	Height
W2	0.60 m	0.40 m

PROGRAM TITLE:
T05-EUTF-HOA-SDN-73-01

PROJECT TITLE:
HEALTH CENTER OF OTASH (NY06)


LOCATION:
SOUTH DARFUR NORTHERN NYALA

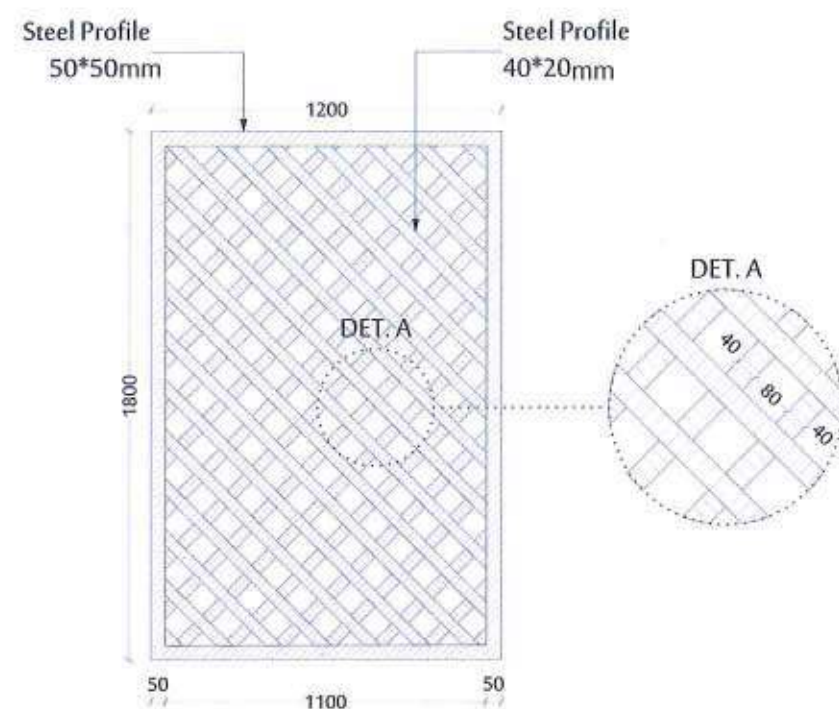
STRUCTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

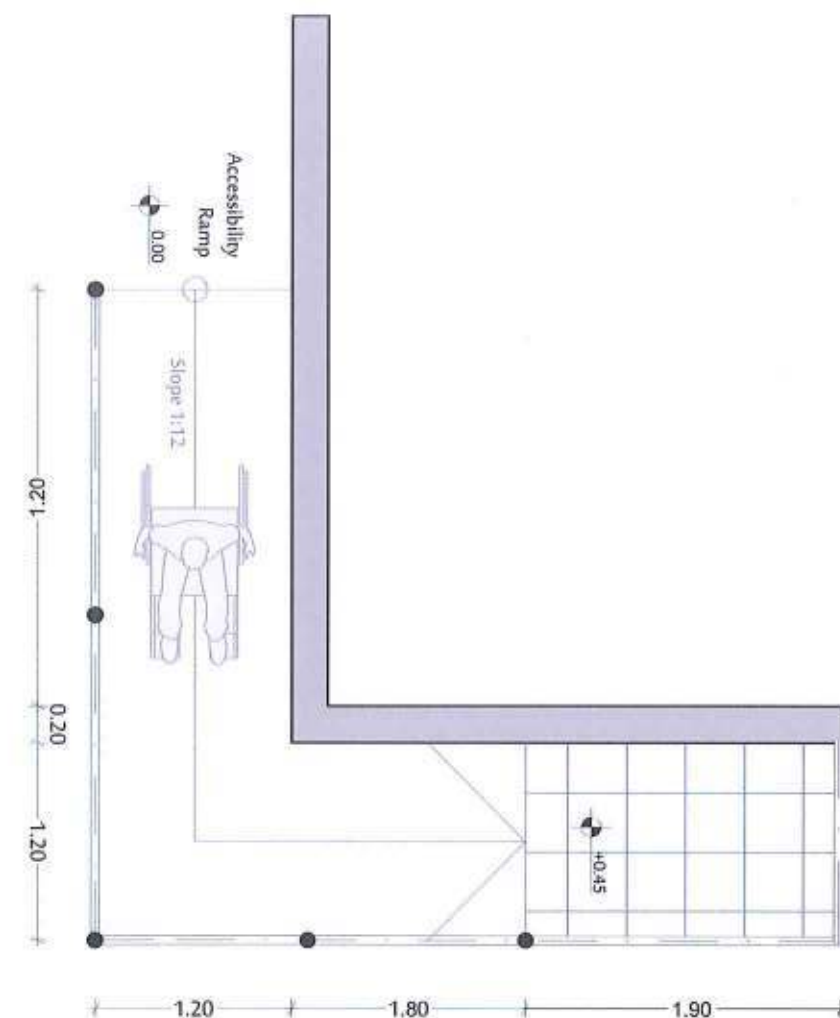
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Latrine Elevations

DATE: January 2022

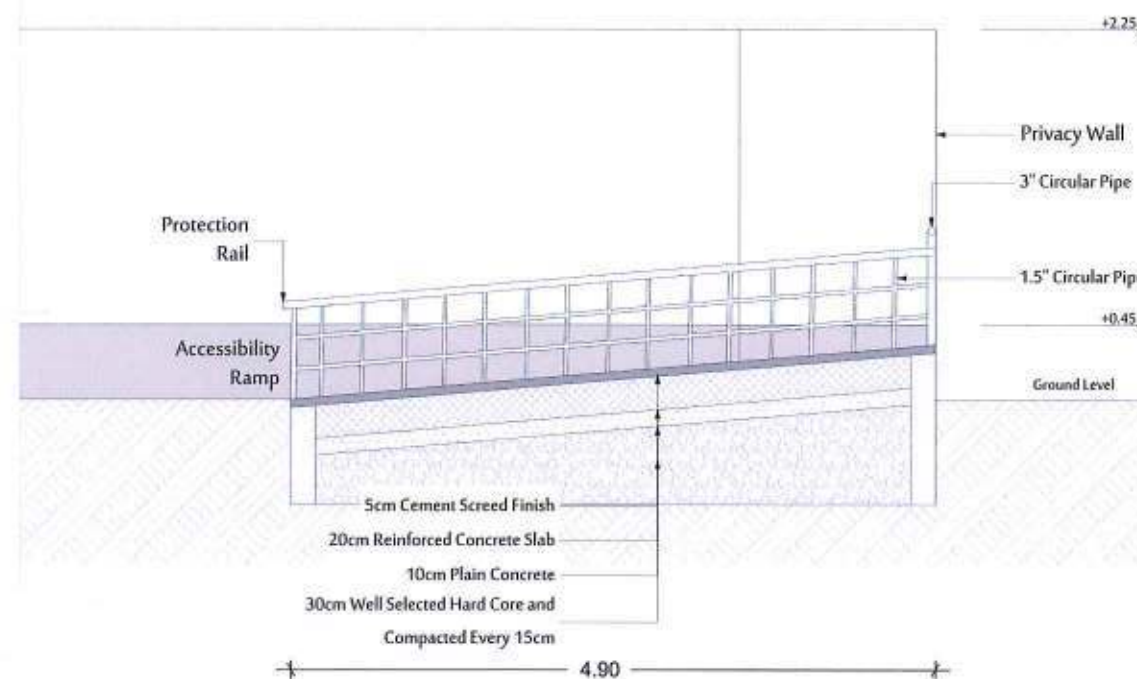
INDEX:	SCALE:	
T2_04	1 : 50	



MASHRABEYA DETAIL



RAMP PLAN



RAMP SECTION

PROGRAM TITLE:
 T05-EUTF-HOA-SD-73-01

PROJECT TITLE:
 HEALTH CENTER OF OTASH (NY06)

LOCATION:
 SOUTH DARFUR
 Northern Nyoka

ARCHITECTURAL ENGINEER:
 ENG. Designer

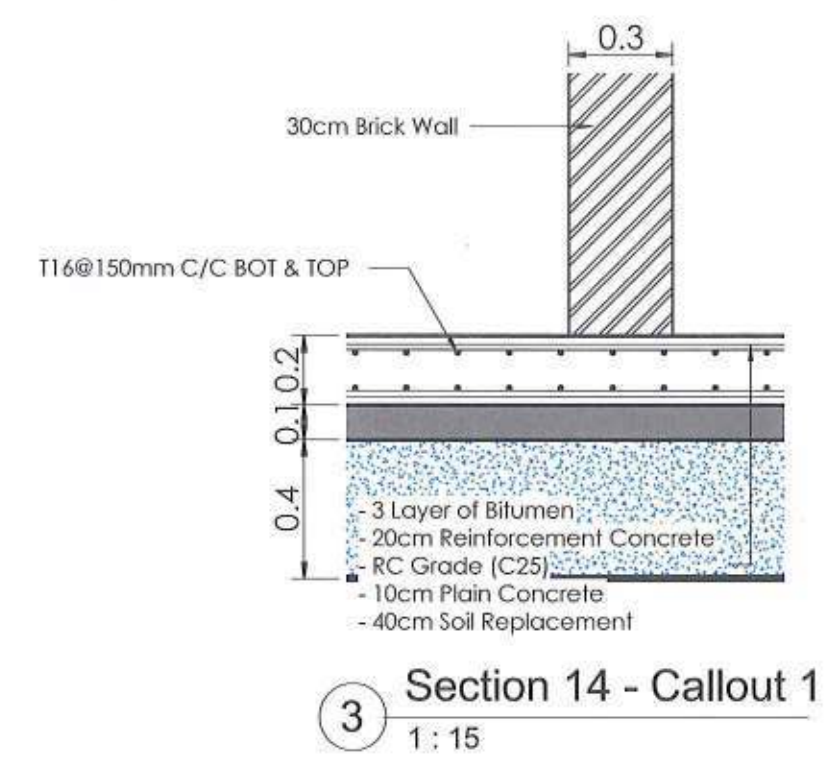
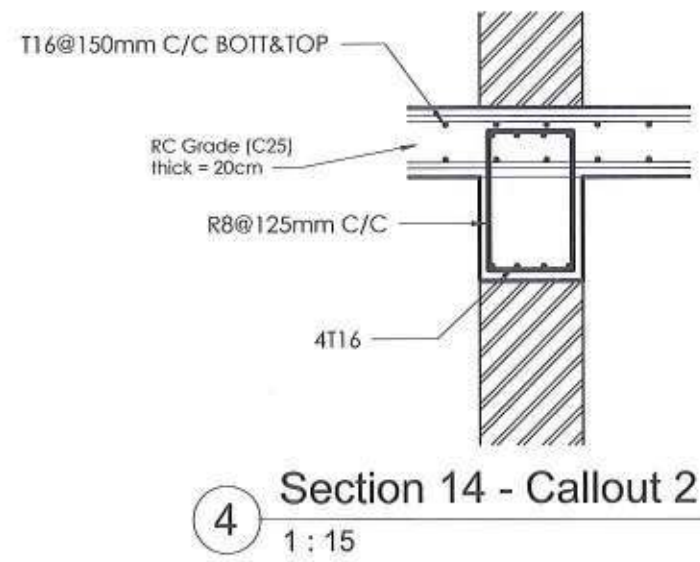
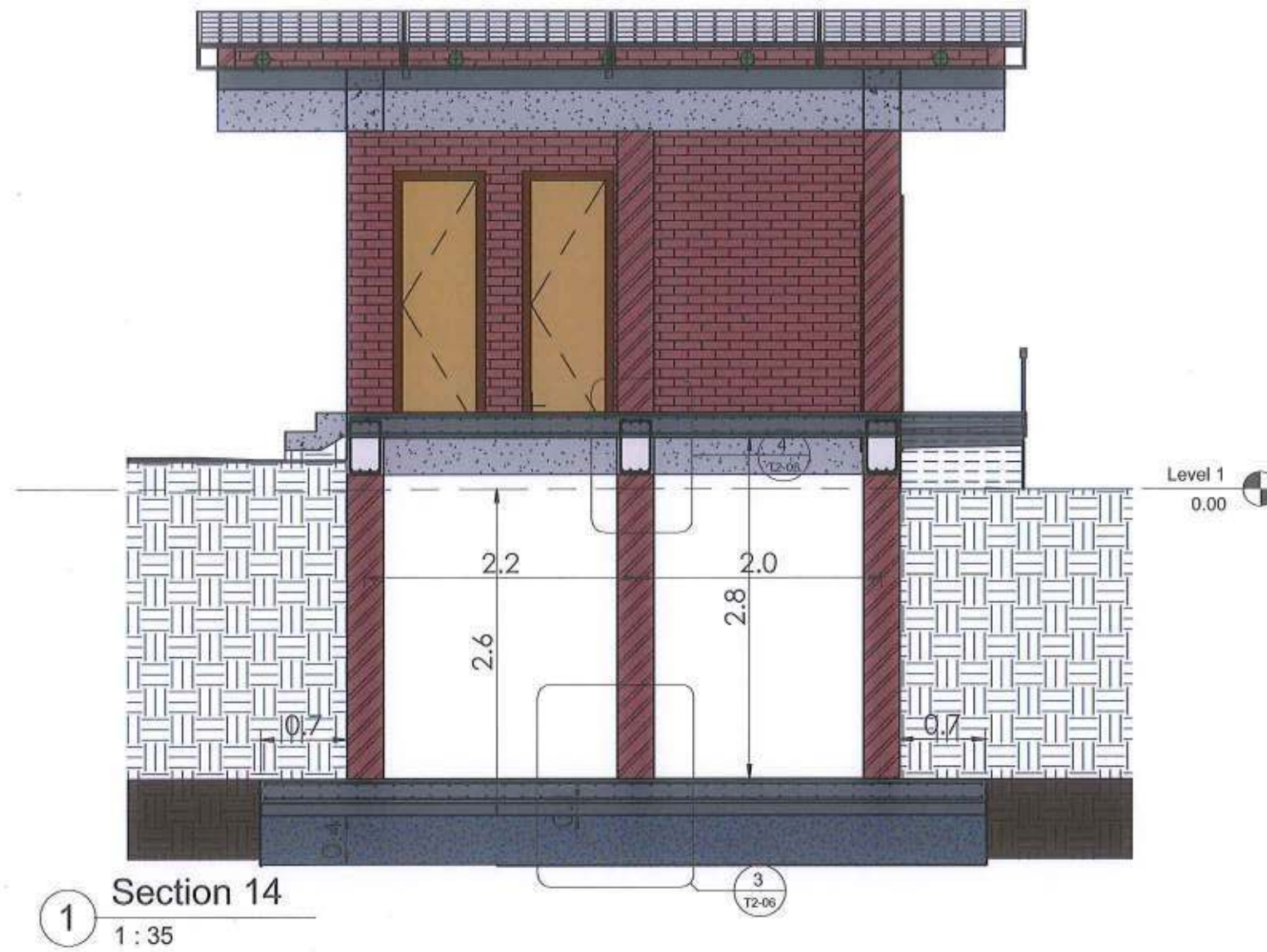
CHECKED BY:
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
 Details

DATE: January 2022

INDEX: T2.05
 SCALE: 1:100



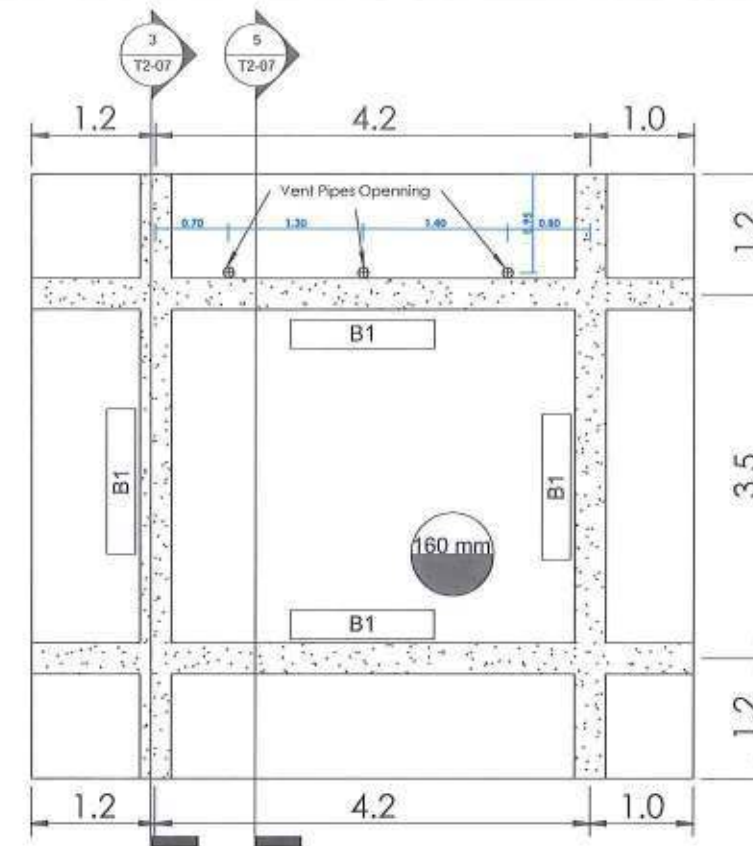
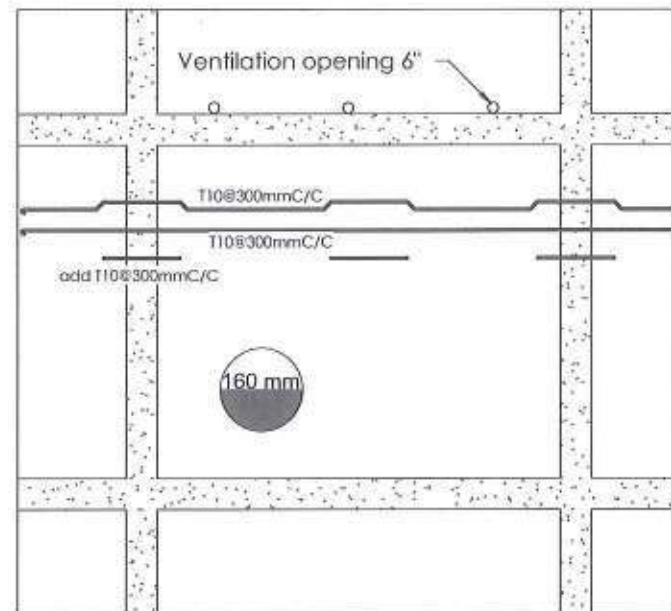


AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

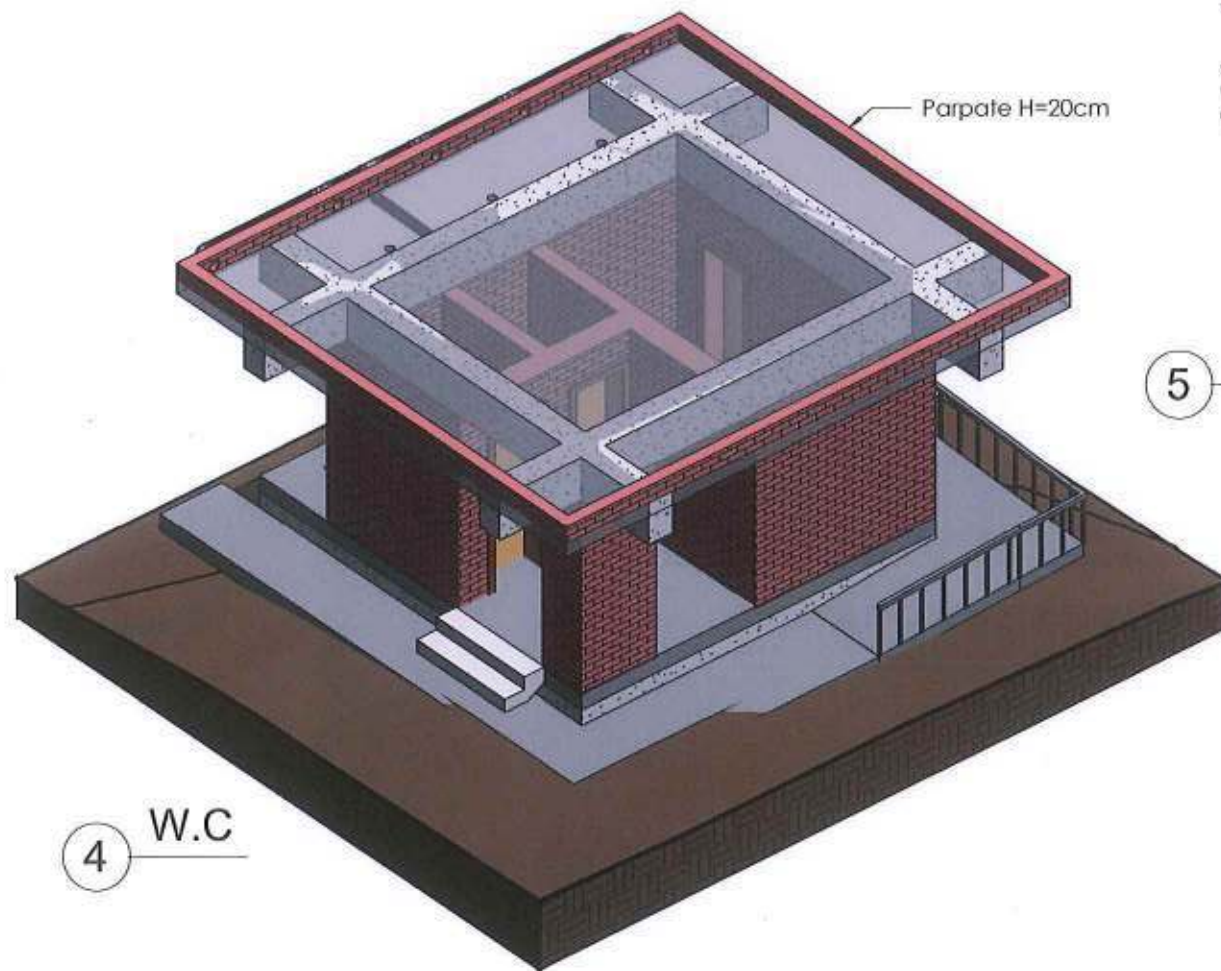
Al-Amarat Mohamed Najeib Street, Khartoum
TEL: +249925451234
+249115418666
EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:	
T05-EUTF-HOA-SD-73-01	
PROJECT TITLE:	
HEALTH CENTER OF OTASH (NYC)	
LOCATION:	
SOUTH DARFUR Northern Niyala	
ARCHITECT:	
ENG. IBRAHIM MOHAMMED IBRAHIM	
STRUCTURAL ENGINEER:	
ENG. AMRAN MOHAMMED OTHMAN	
CHECKED BY:	
ENG. AMRAN MOHAMMED OTHMAN	
DRAWING TITLE:	
Well Details	
DATE: January 2022	
INDEX:	SCALE:
T2-06	As indicated

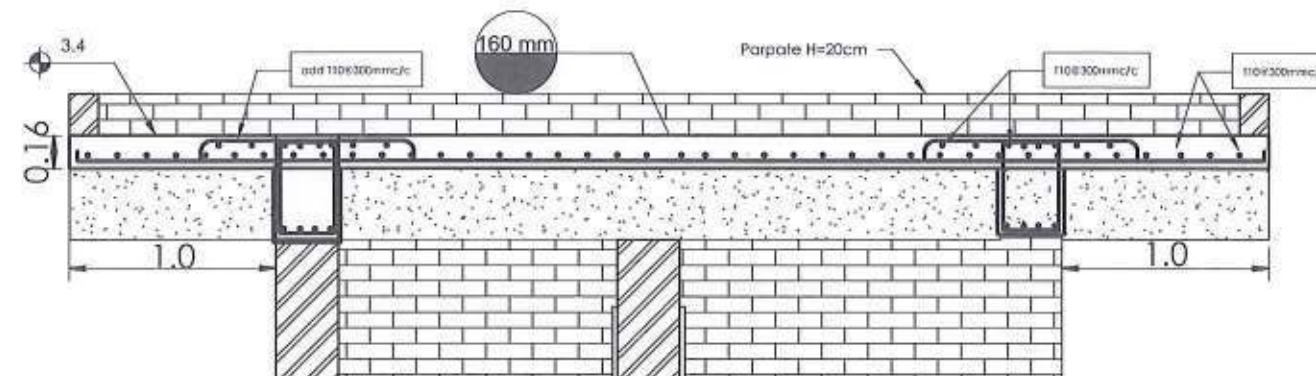


2 W.C Roof Reinforcement
1 : 50

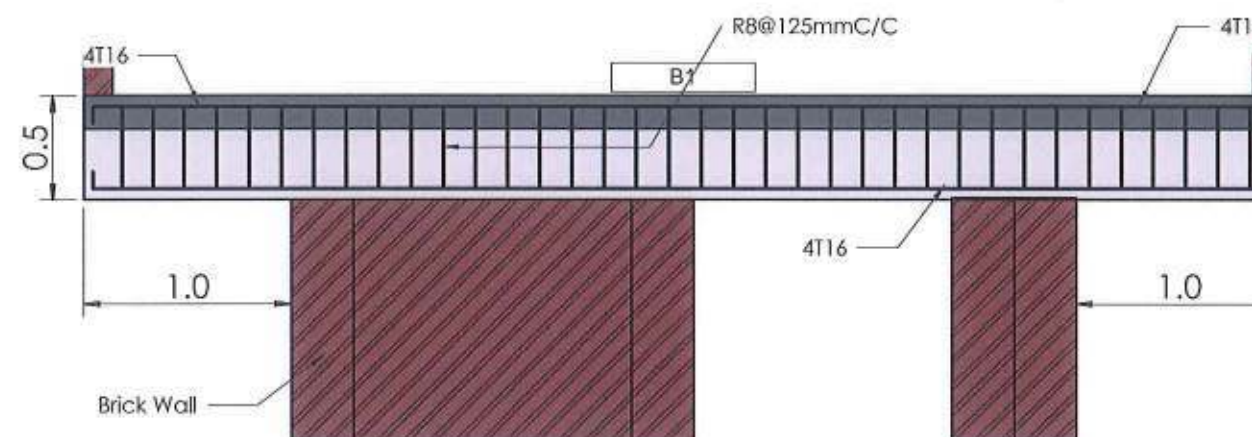


4 W.C

1 W.C Roof
1 : 50



5 Section 1 Slab Reinf.
1 : 25

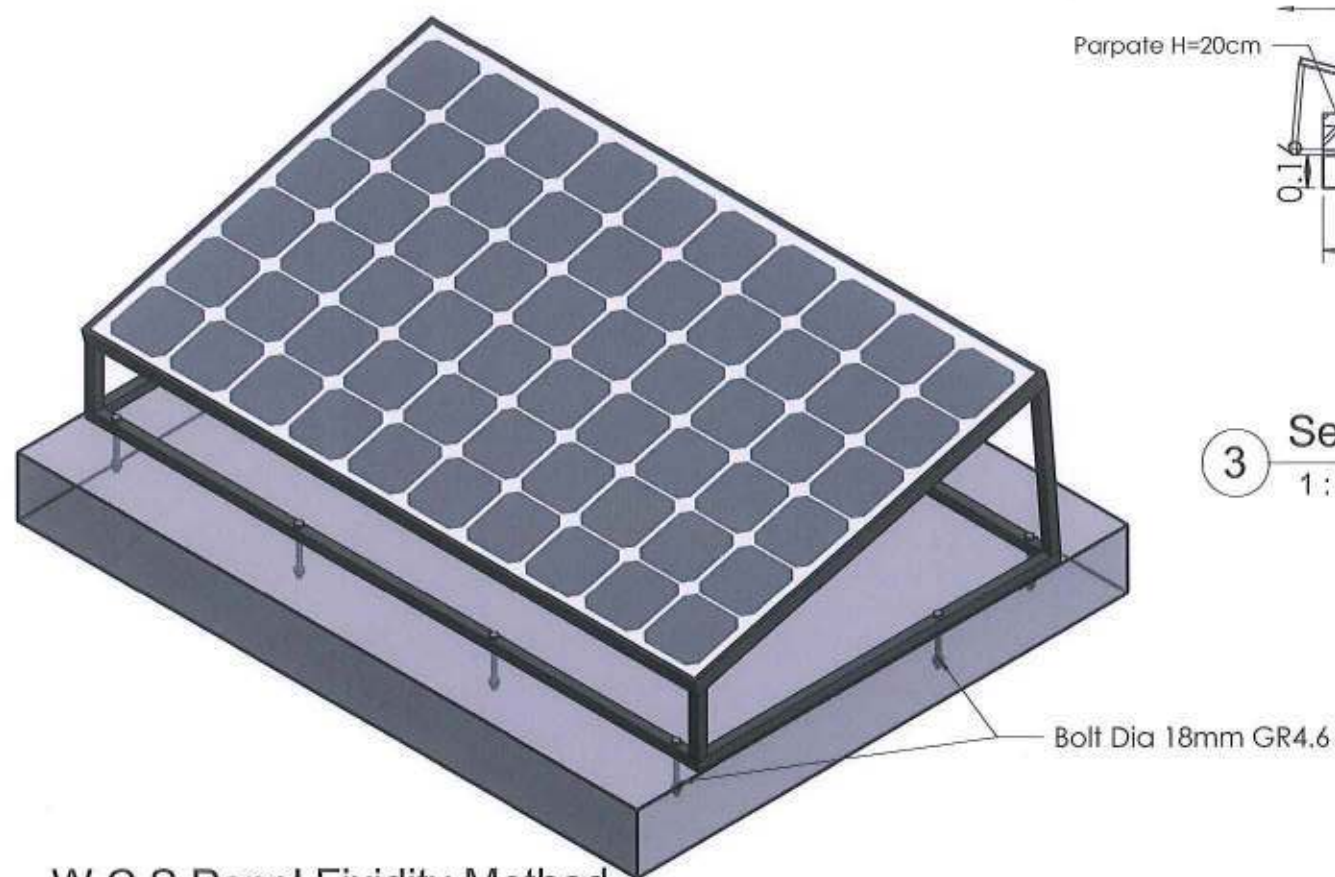


3 Section 14 Roof Beam
1 : 25



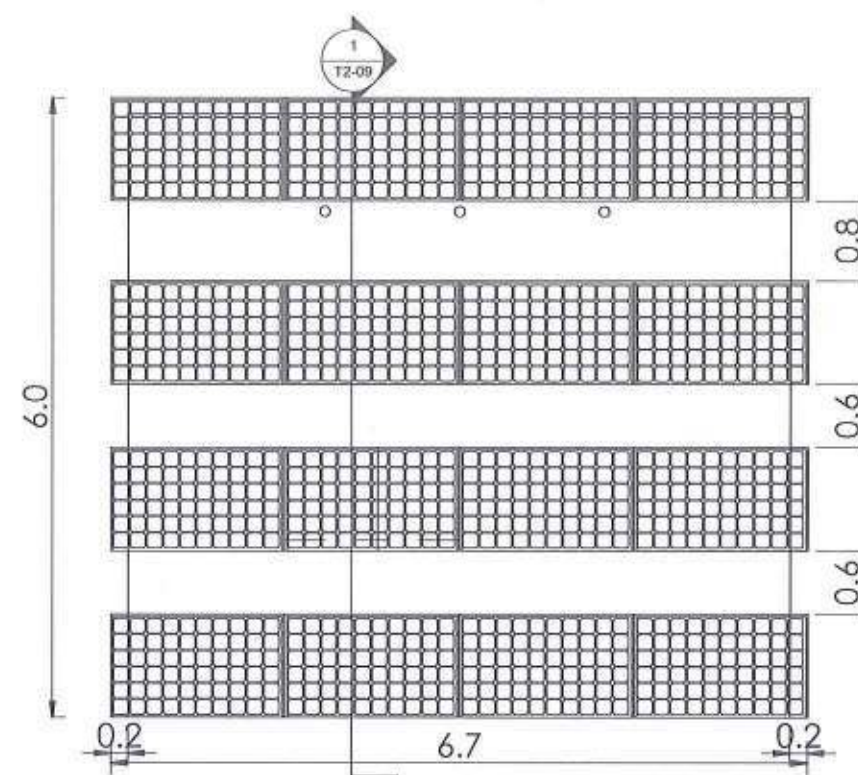


1 W.C S.Panel

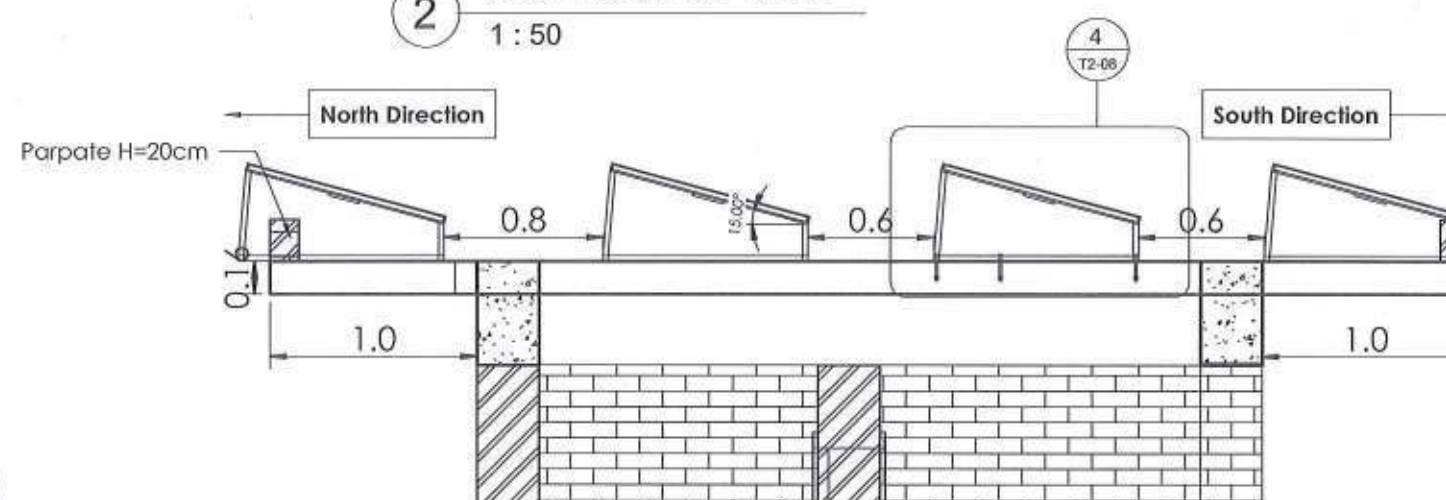


5 W.C S.Panel Fixidity Method

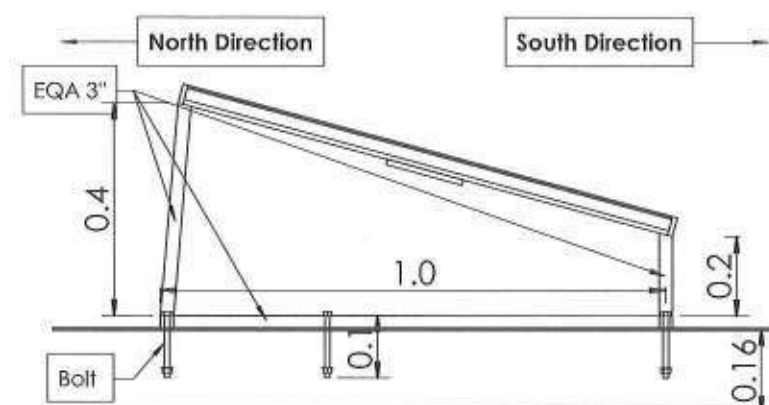
Note :
* After installing the Solar Panel frame,a rainwater insulating layer (Kafga) must be made.



2 W.C Roof S.Panel
1 : 50



3 Section 1 S.Panel Detaile
1 : 25



4 S.Panel Detaile - Callout 1
1 : 10



AICS-Italian Agency for Development Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

Al-Amarat Mohamed Najeeb Street, Khartoum
TEL : +249925451234
+249115418666
EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE :
T05-EUTF-HOA-SD-73-01

PROJECT TITLE :
HEALTH CENTER OF DAKASH (NYDA)

LOCATION :
SOUTH DARFUR
Northern Nyala

ARCHITECT :
ENG.Rabab Azhar Eagle Eiseed
STRUCTURAL ENGINEER :

ENG.IBRAHIM MOHAMMED IBRAHIM
CHECKED BY :
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :
W.C Solar Panel

DATE : January 2022

INDEX : T2-08 SCALE : As indicated

Parpate H=20cm

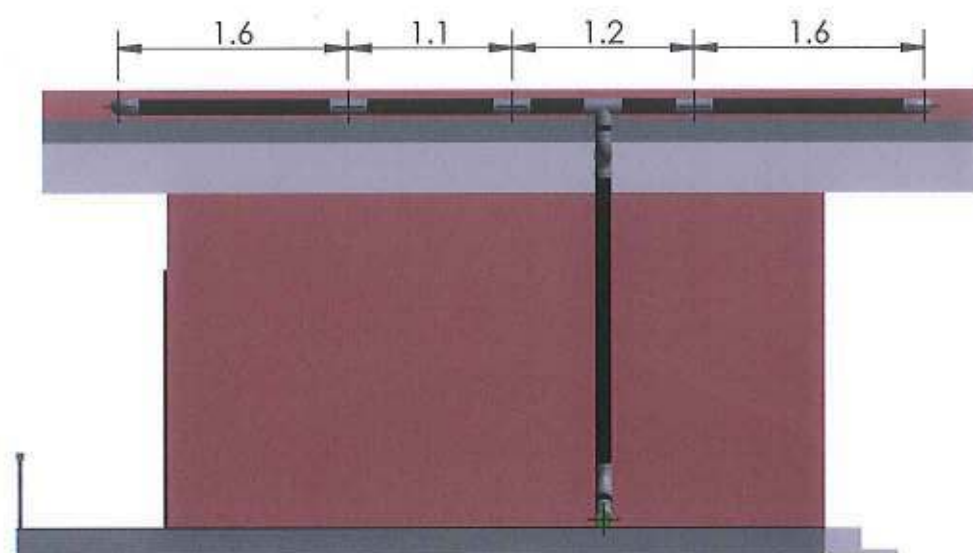
inslating layer (Kafga)
Slope 1:6

1.0

Down Pipe (PVC 4")

Section 1(rainwater down

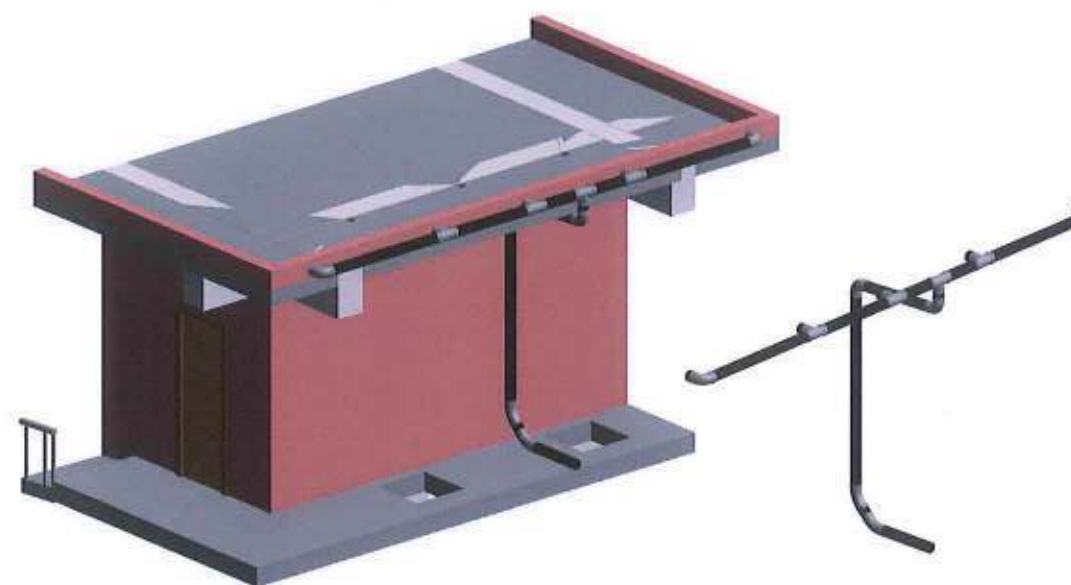
1
1:25



Elevation 1 - a

2

1 : 50



W.C (rainwater down pipe)

4



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Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeib Street, Khartoum

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+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Rainwater system

DATE: January 2022

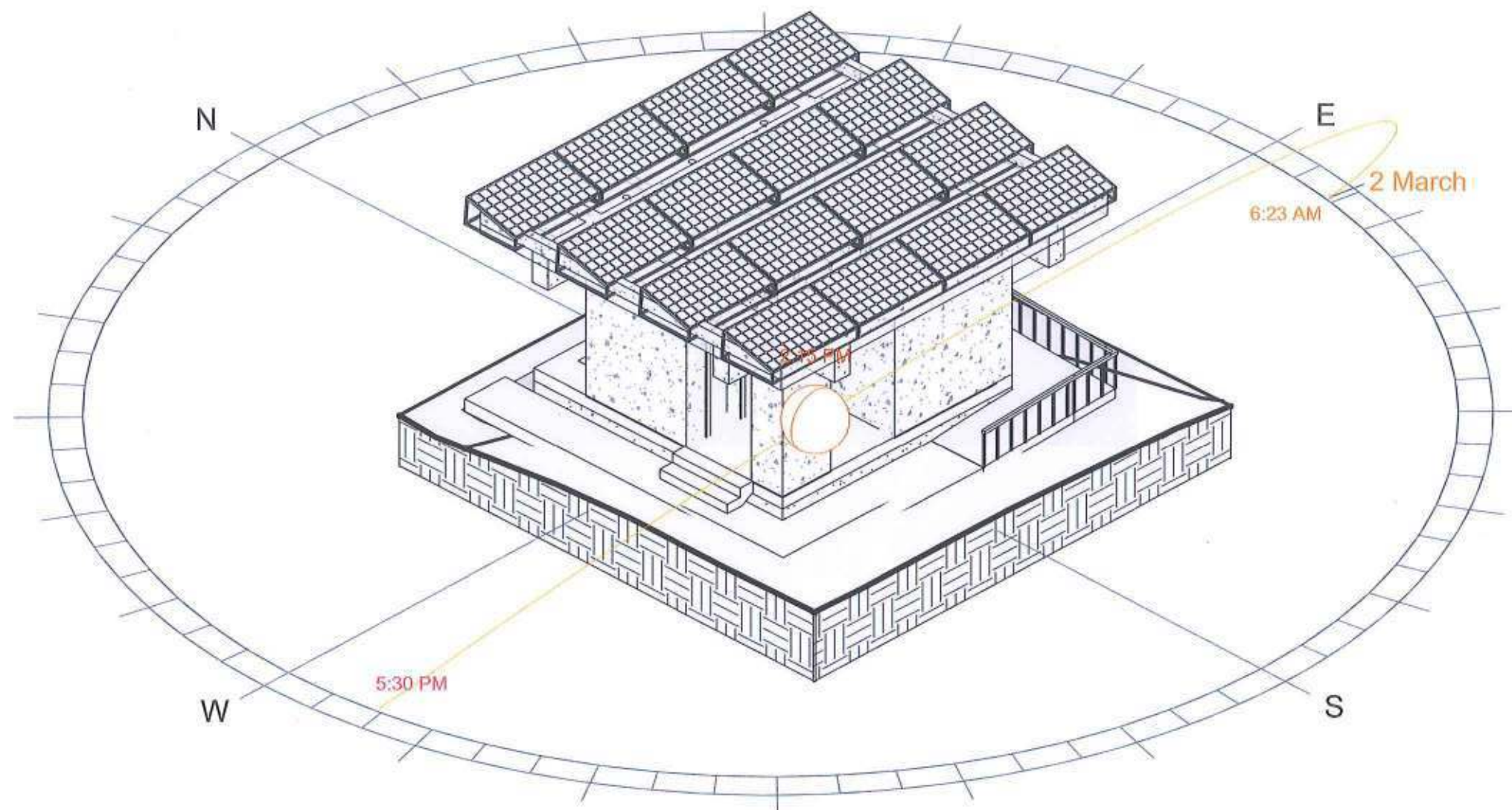
INDEX:

T2-09

SCALE:

As
indicated





1 Sun Path



AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 X-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE QTC ENGINEERING

PROGRAM TITLE:

T05-EUTF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR
Northern Nyala

STRUCTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

Sun Path 3D View

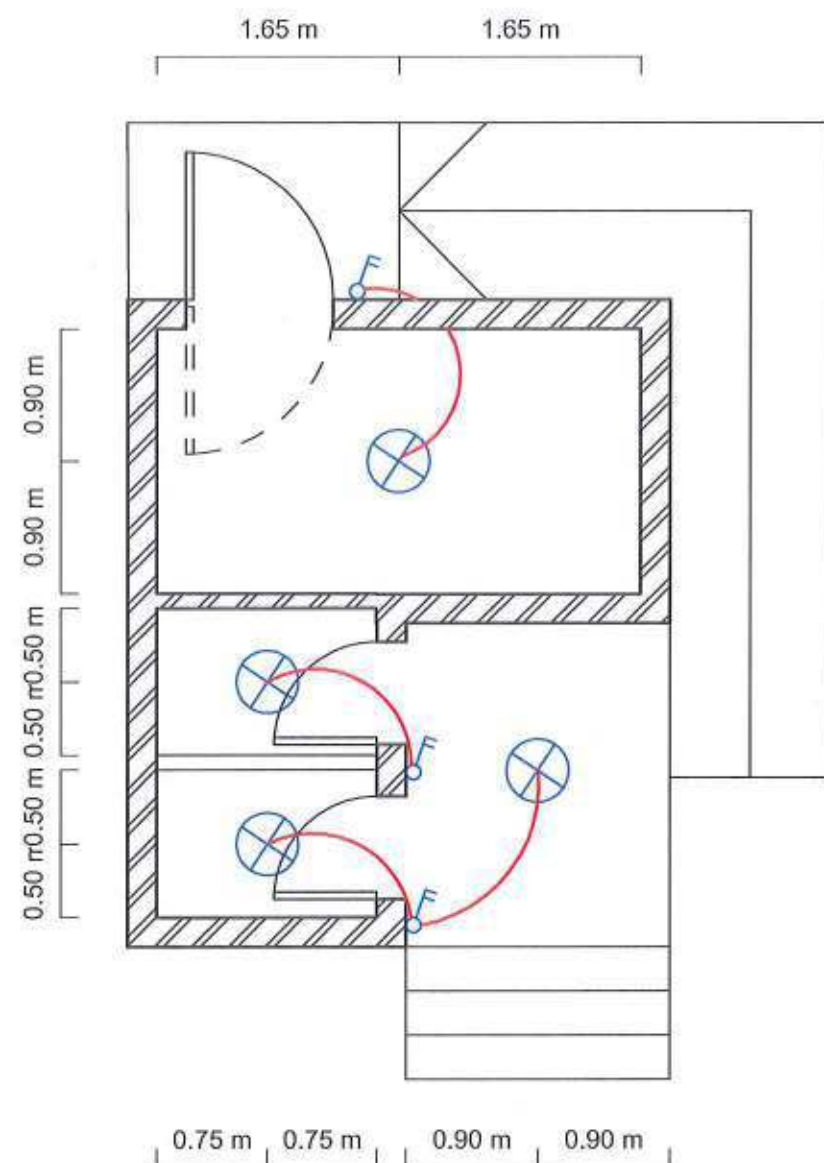
DATE: January 2022





INDEX:

T2-10

SCALE:





DESCRIPTION	
	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	CEILING LAMP

1 FEMALE W.C
1 : 50



AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

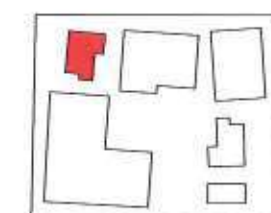
Al-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234
+249115418666

EMAIL: DQTC.ENGINEERING@GMAIL.COM



DOUBLE DTC ENGINEERING



PROGRAM TITLE:

T05-EUF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:

ENG. MOHAMMED SALAH ISLAMIR

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

BLOCK T2 ELECTRICAL LAYOUT

DATE: JANUARY 2022

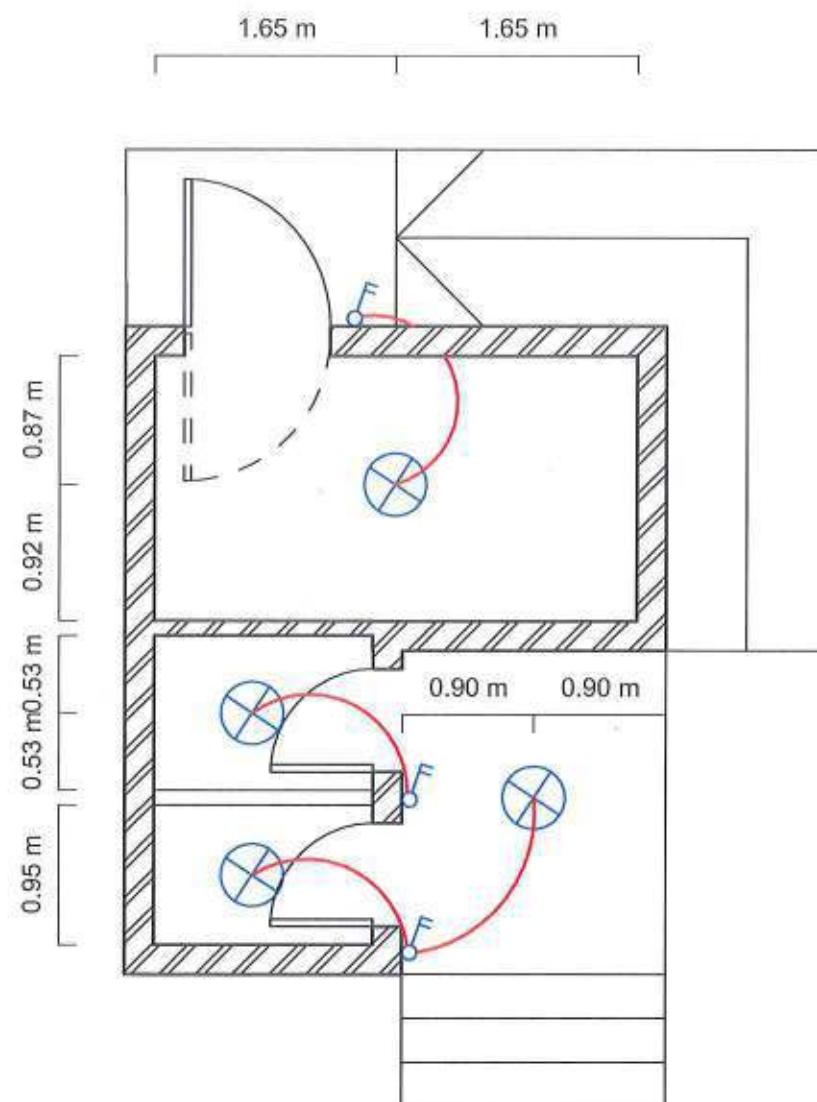
INDEX:





T2_11

SCALE:

1 : 50





DESCRIPTION	
	SINGLE LIGHT SWITCH
	DOUBLE LIGHT SWITCH
	TRIPLE LIGHT SWITCH
	CEILING LAMP

1 FEMALE W.C.
1 : 50

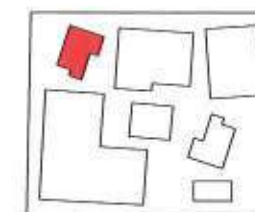


AICS-Italian Agency for Development
Cooperation - SDN
13 Project St. no 33 Amarat, House no 25
Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Steel, Khartoum

TEL: +249925451234
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EMAIL: DQTC.ENGINEERING@GMAIL.COM



PROGRAM TITLE:

TDS-EUF-HOA-SD-73-01

PROJECT TITLE:

HEALTH CENTER OF OTASH (NYD6)

LOCATION:

SOUTH BARBER NORTHERN NYALA

ELECTRICAL ENGINEER:

ENG. MOHAMMED SALAH ALAMIR

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

BLOCK T2 ELECTRICAL LAYOUT

DATE: JANUARY 2022

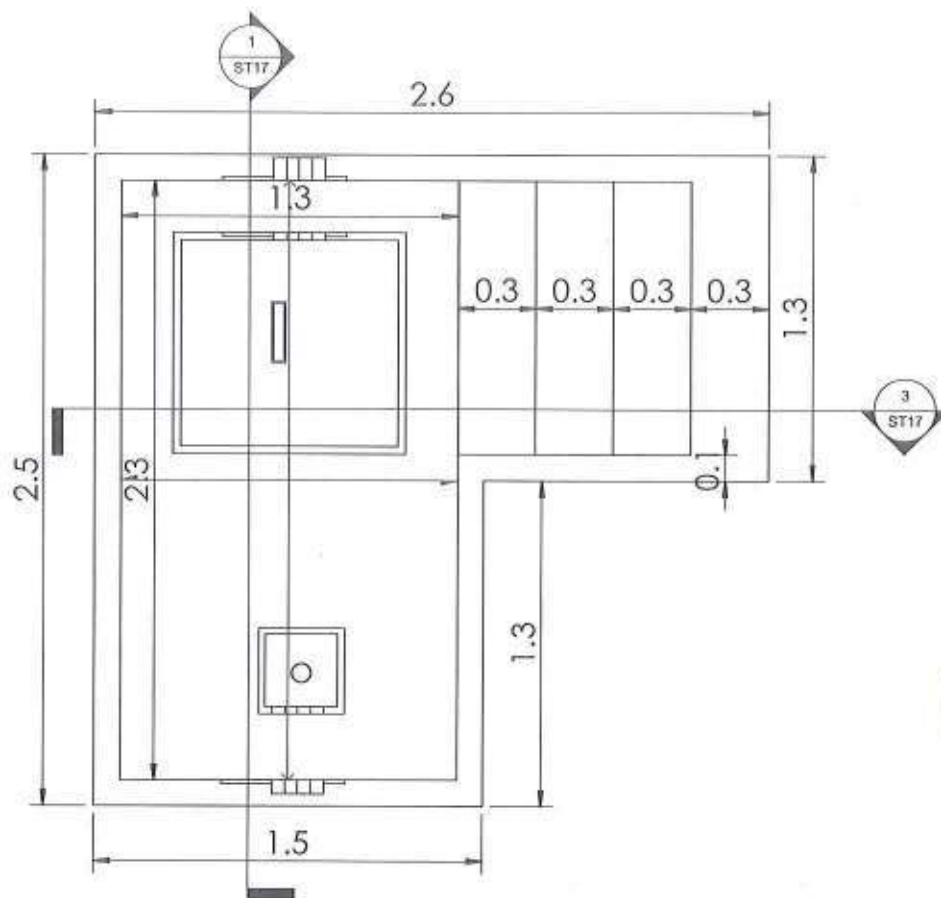
INDEX:

T2_11

SCALE:

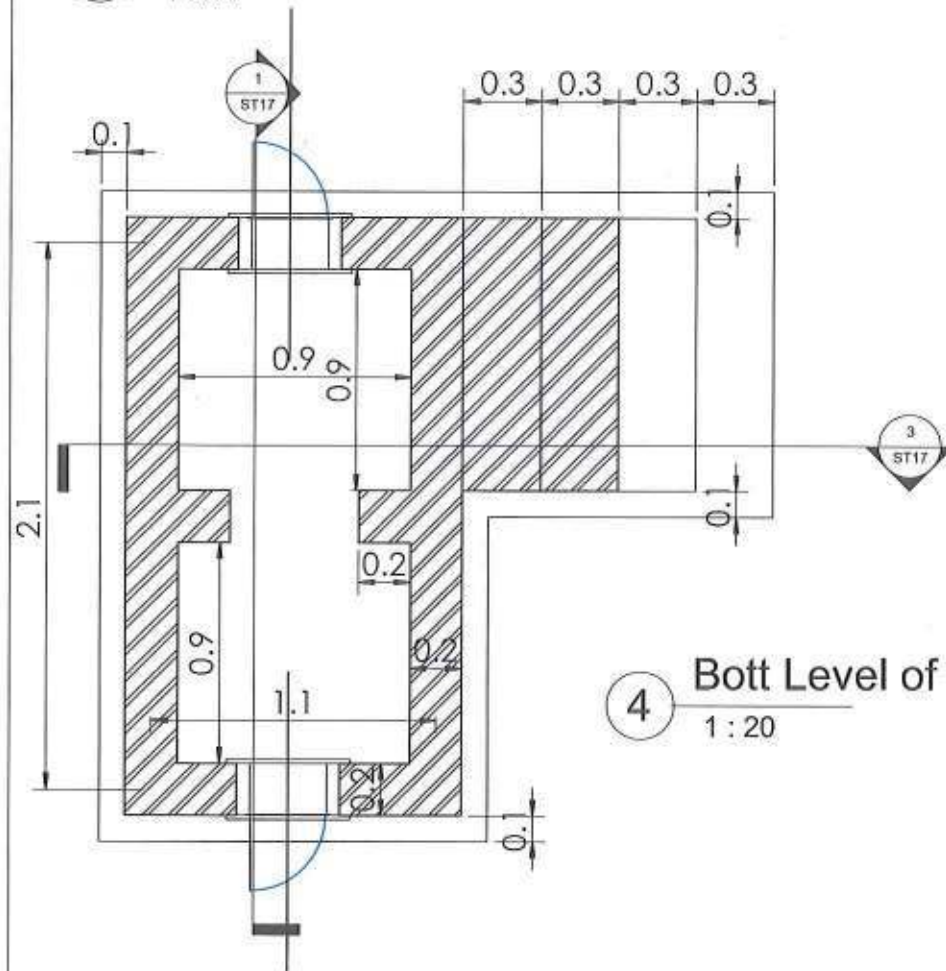
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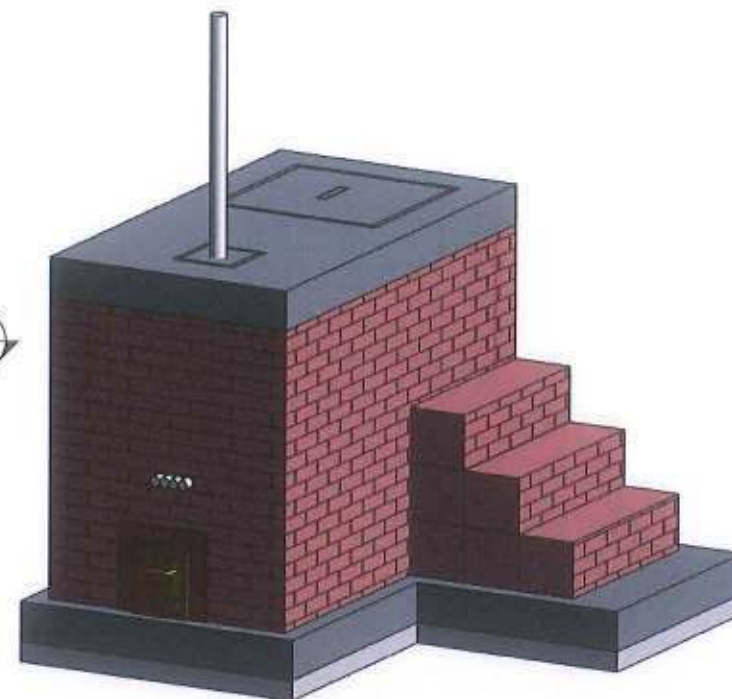


Medical Waste Disposal

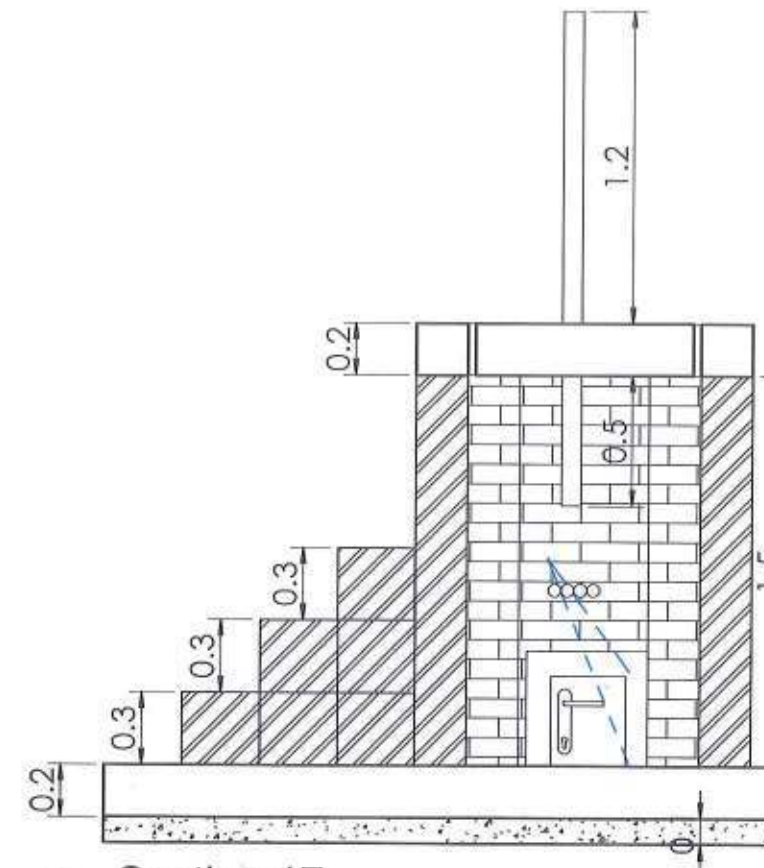
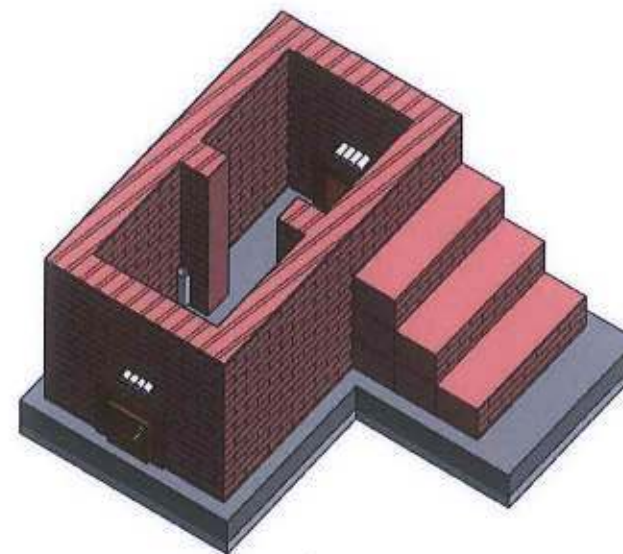
2 Plan
1:20



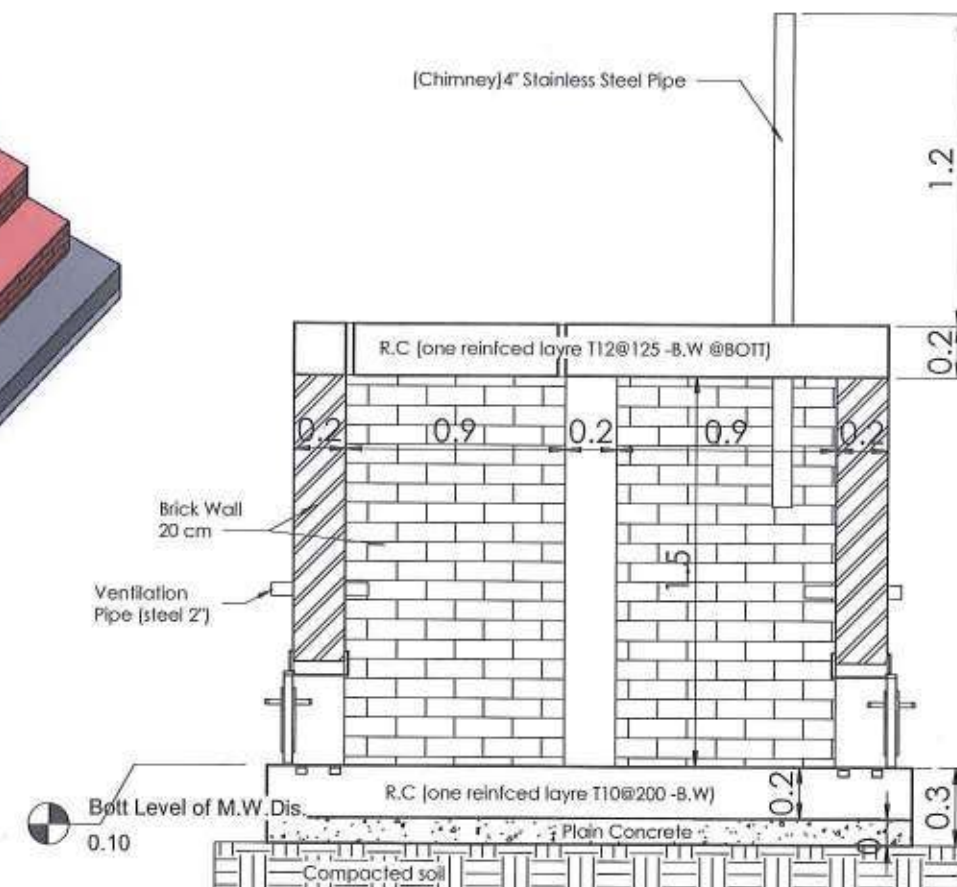
4 Bott Level of M.W.Dis.
1:20



5 3D Medical Waste Disposal



3 Section 17
1:20



1 Section 16
1:20

PROGRAM TITLE:
T05-EUTF-HOA-SD-73-01

PROJECT TITLE:
HEALTH CENTER OF DQTC (M06)
LOCATION:
SOUTH DARFUR NORTHERN NUBIA

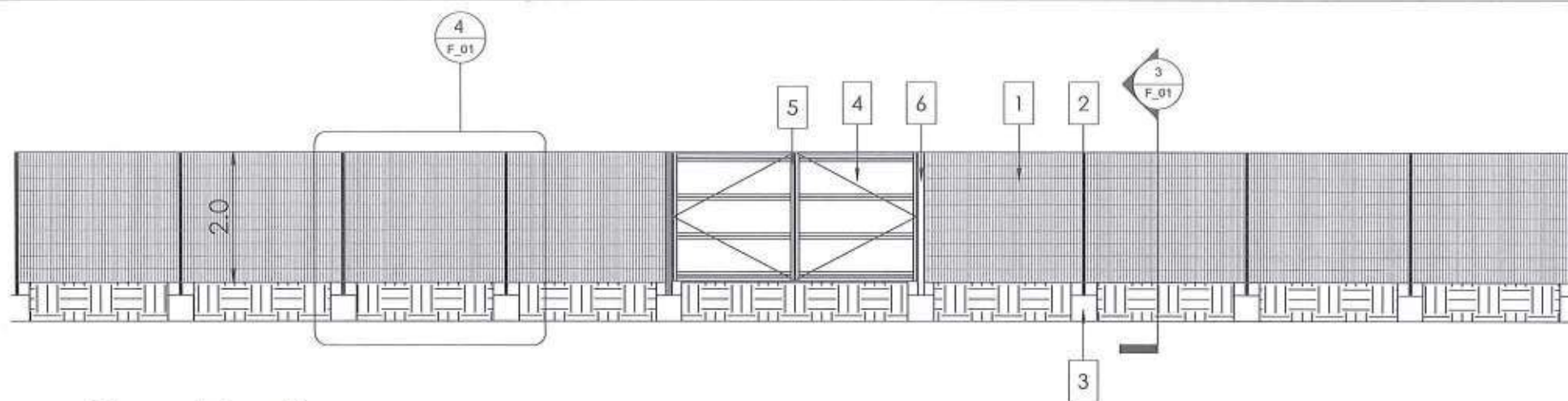
ARCHITECT:
STRUCTURAL ENGINEER:
ENG. IBRAHIM MOHAMMED IBRAHIM
CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
Medical Waste Disposal

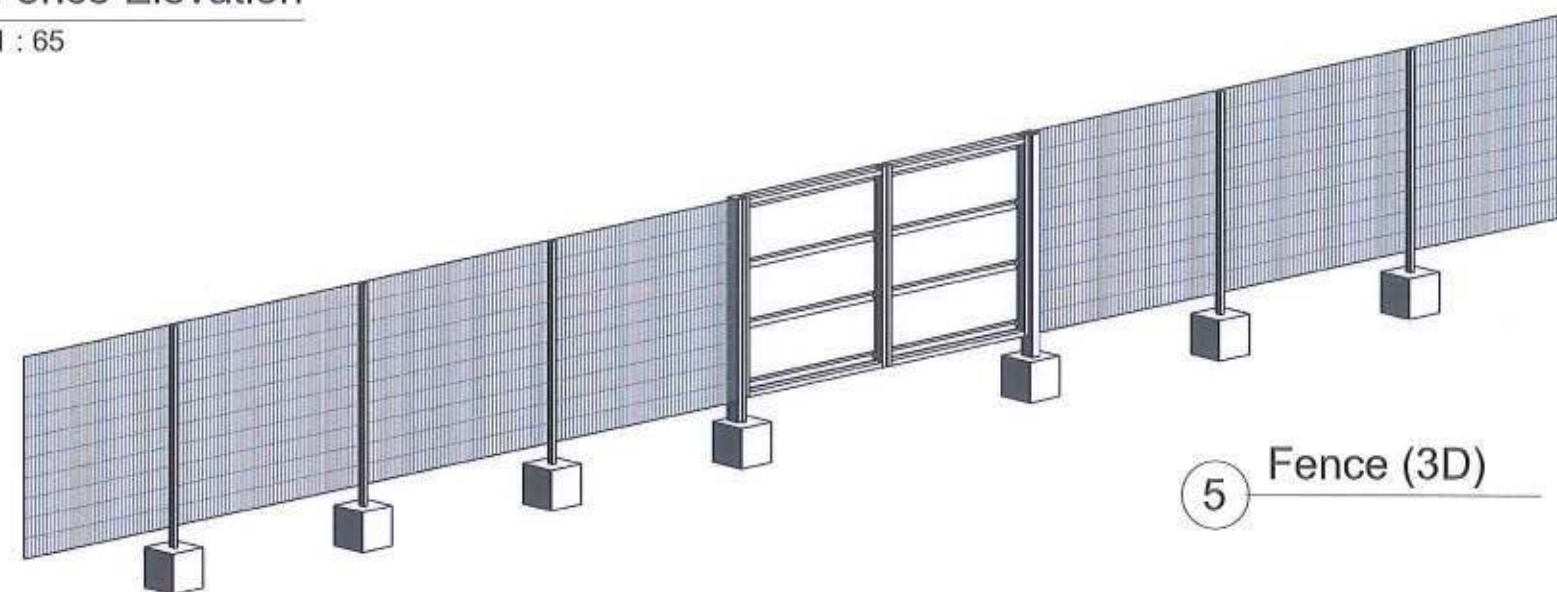
DATE: January 2022

INDEX: MWD_01
SCALE: 1:20

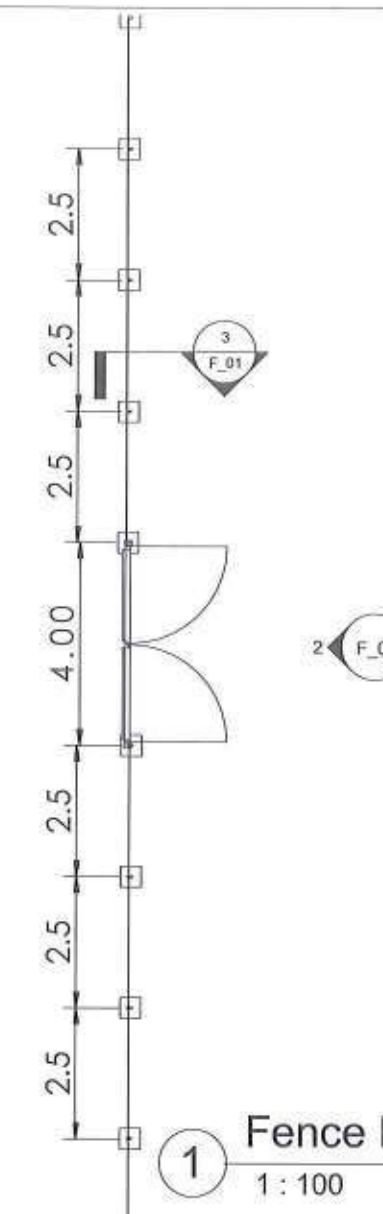




2 Fence Elevation
1:65

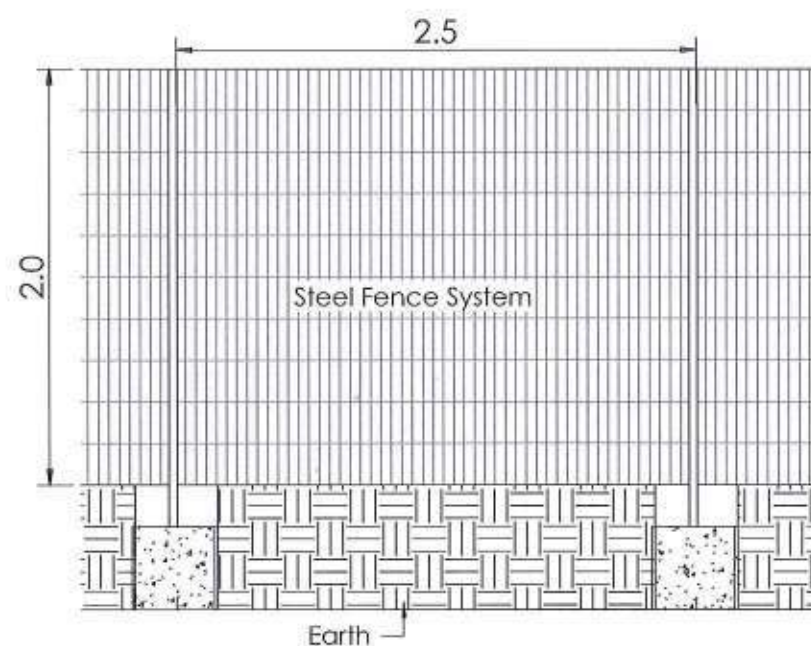


5 Fence (3D)
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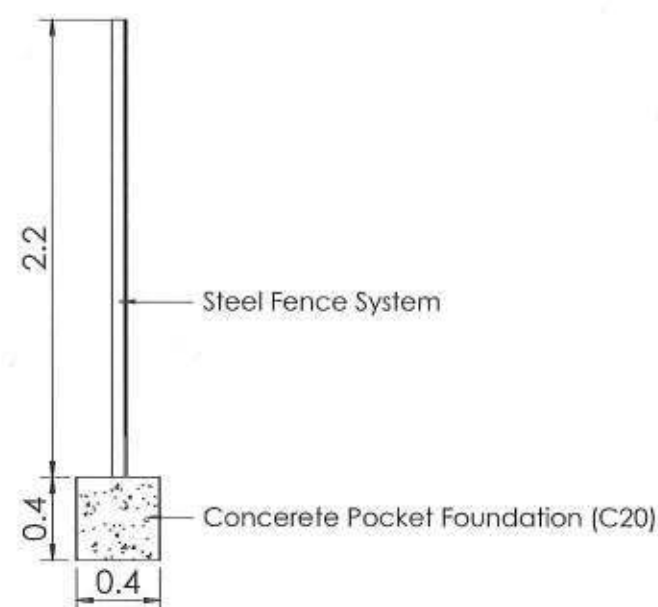


1 Fence Plan
1:100

NBS_CLD Fencing Systems



4 Elevation - Callout 1
1:25



3 Section 15
1:25

1	Metal Grid
2	HRS 80X40X2
3	Concrete Pocket Foundation (C20)
4	Entrance Door
5	HRS 60X30X2 (Frame for Entrance Door)
6	HRS100X50X2 (End Support for Entrance Door)



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PROGRAM TITLE:
T05-EUTP-HOASD/300
PROJECT TITLE:
HEALTH CENTER OF DASH (NY00)
LOCATION:
SOUTH DARFUR NORTHERN NYA
مكتب المدير العام

ARCHITECT:
ENG.Rabab Azhari Fadle Elseed
STRUCTURAL ENGINEER:
ENG.IBRAHIM MOHAMMED IBRAHIM
CHECKED BY:
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:
Fence Details
DATE: January 2022
INDEX: F_01
SCALE: As indicated