



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](mailto:DQTC.ENGINEERING@GMAIL.COM)



**Block A  
 New Extension  
 and  
 Waiting Area**



**Block B  
 New Waiting Area**

**New Toilets**

**New Toilets  
 Block C  
 New Waiting Area**

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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TEL. +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



PROGRAM TITLE:

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PROJECT TITLE:

HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG.RABAB AZHARI FADL ELSEED

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

LIST OF DRAWINGS

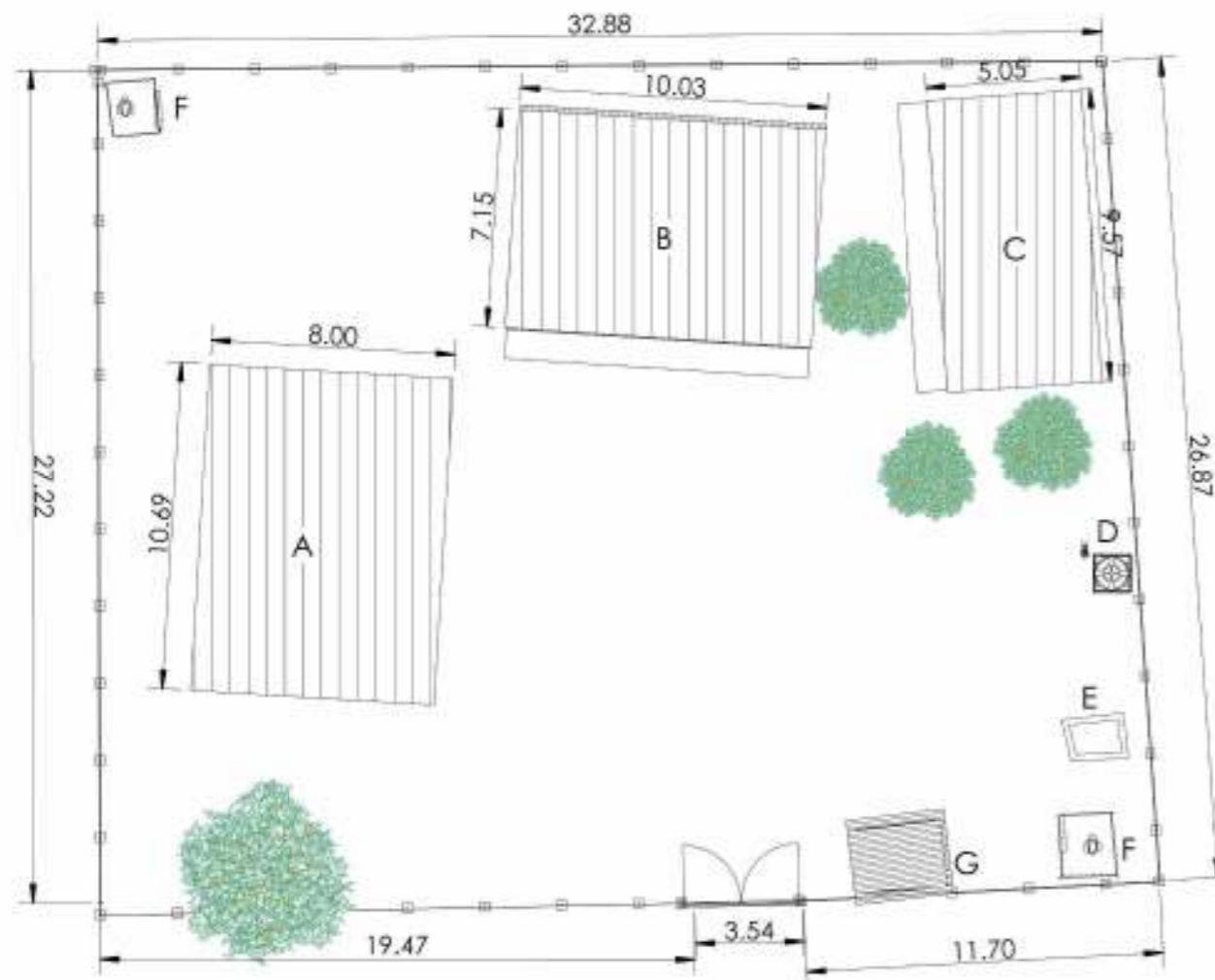
DATE: JANUARY 2022

INDEX:

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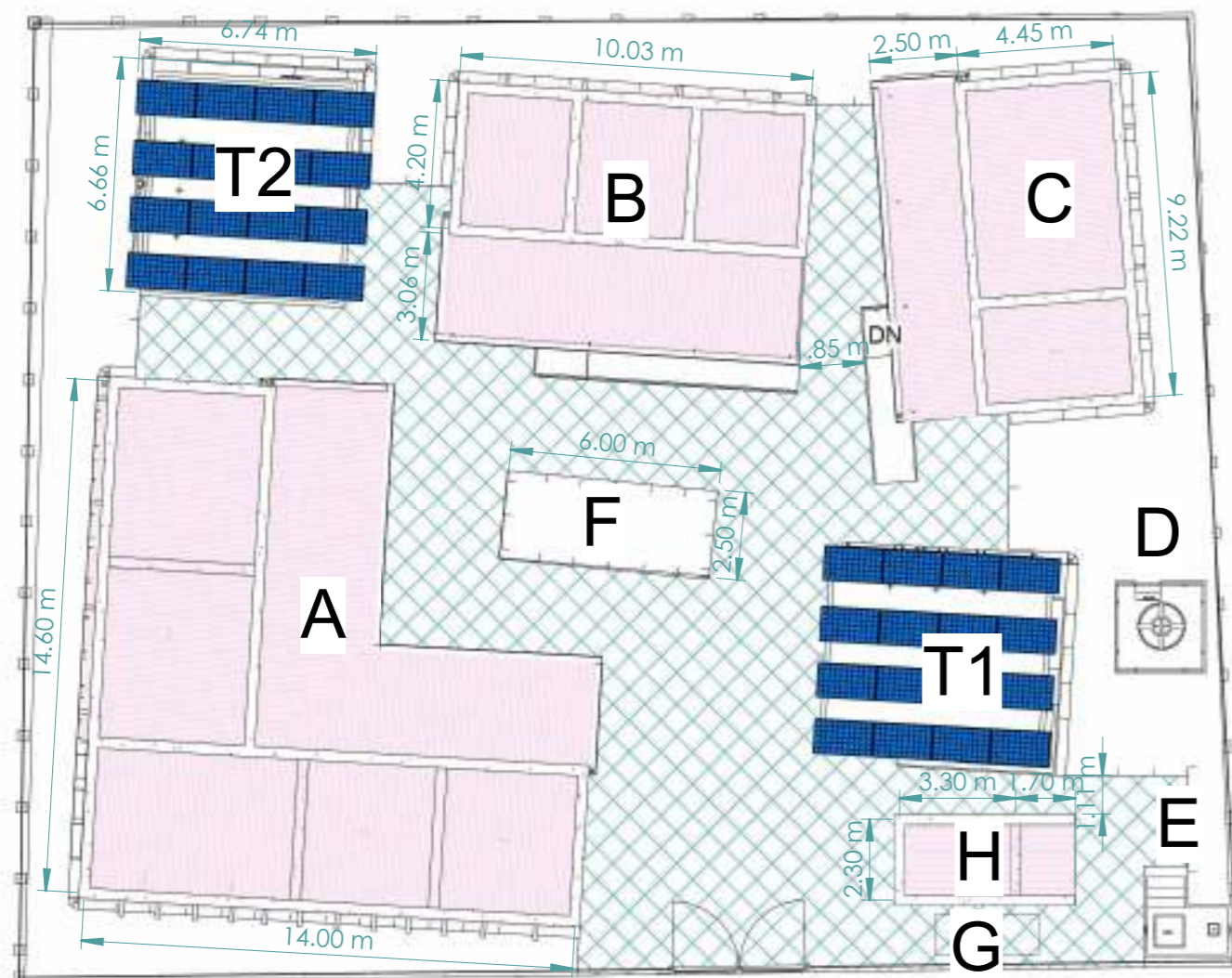
SCALE:





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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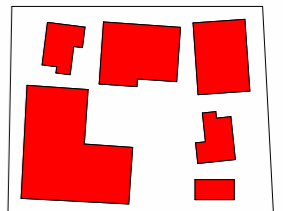
AL-Amarat Mohamed Najeeb Street, Khartoum

TEL. +249925451234  
 +249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



DOUBLE QTC ENGINEERING



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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: SCALE:

G\_01 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             |



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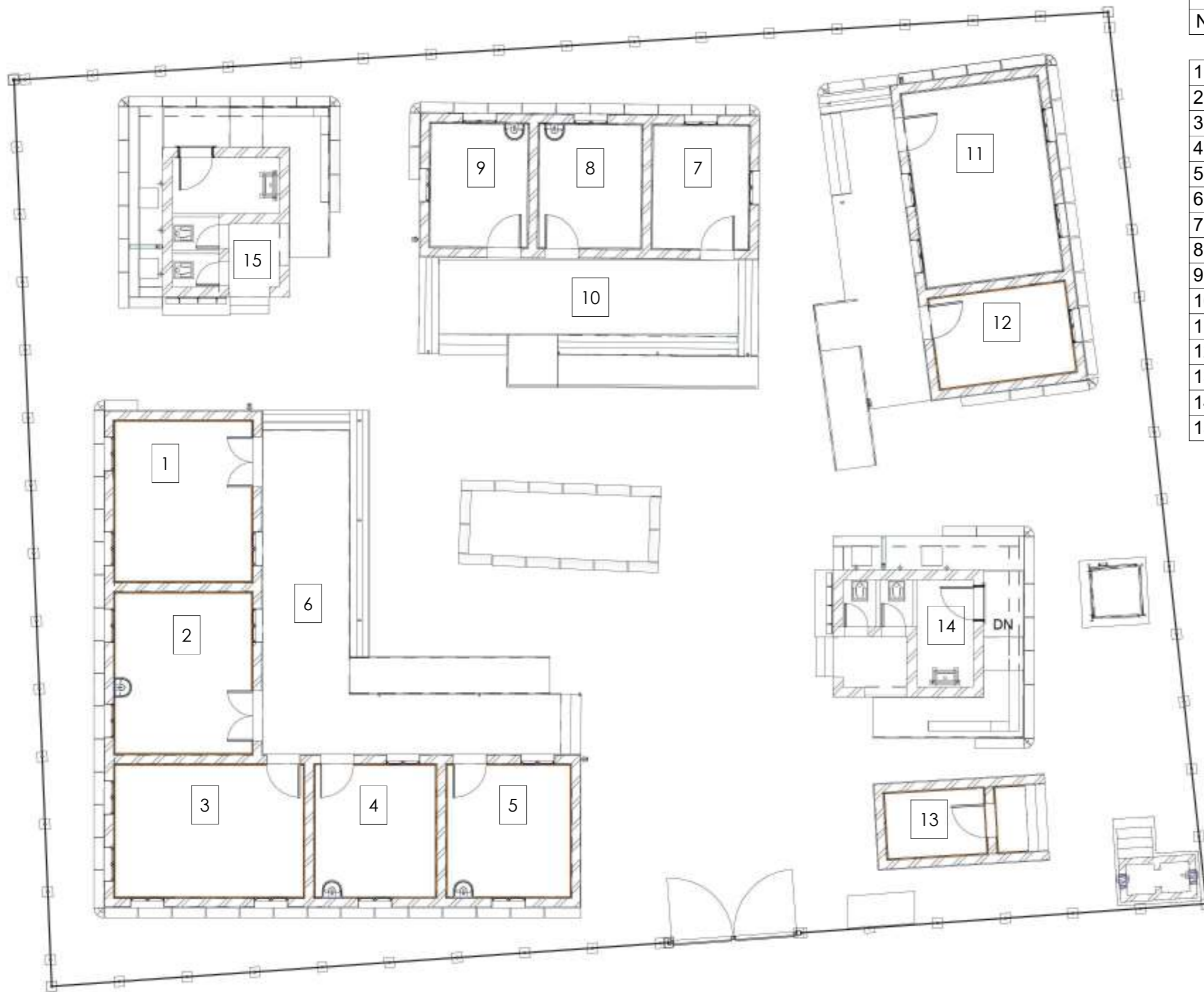
ARCHITECTURAL ENGINEER:  
 ENG.Designer  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 Ground Floor Plan Existing Design

DATE: January 2022

|                |                   |
|----------------|-------------------|
| INDEX:<br>G_02 | SCALE:<br>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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PROJECT TITLE:  
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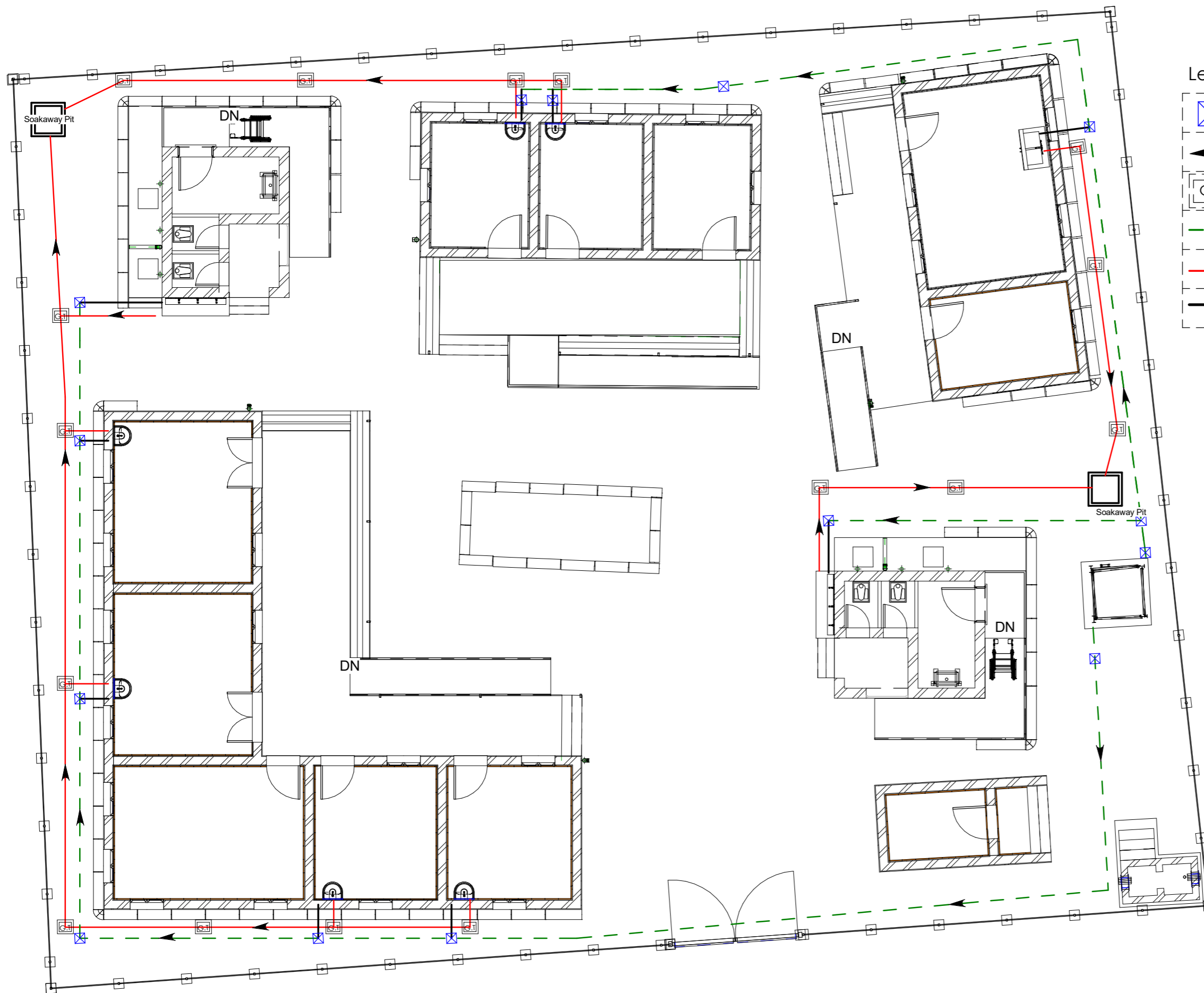
LOCATION:  
 SOUTH DARFUR  
 Northern Nyala

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







DRAWING TITLE:  
 Ground Floor Plan Design Proposal

DATE: January 2022

|                |                   |  |
|----------------|-------------------|--|
| INDEX:<br>G_03 | SCALE:<br>1 : 125 |  |
|----------------|-------------------|--|



**Legend**

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



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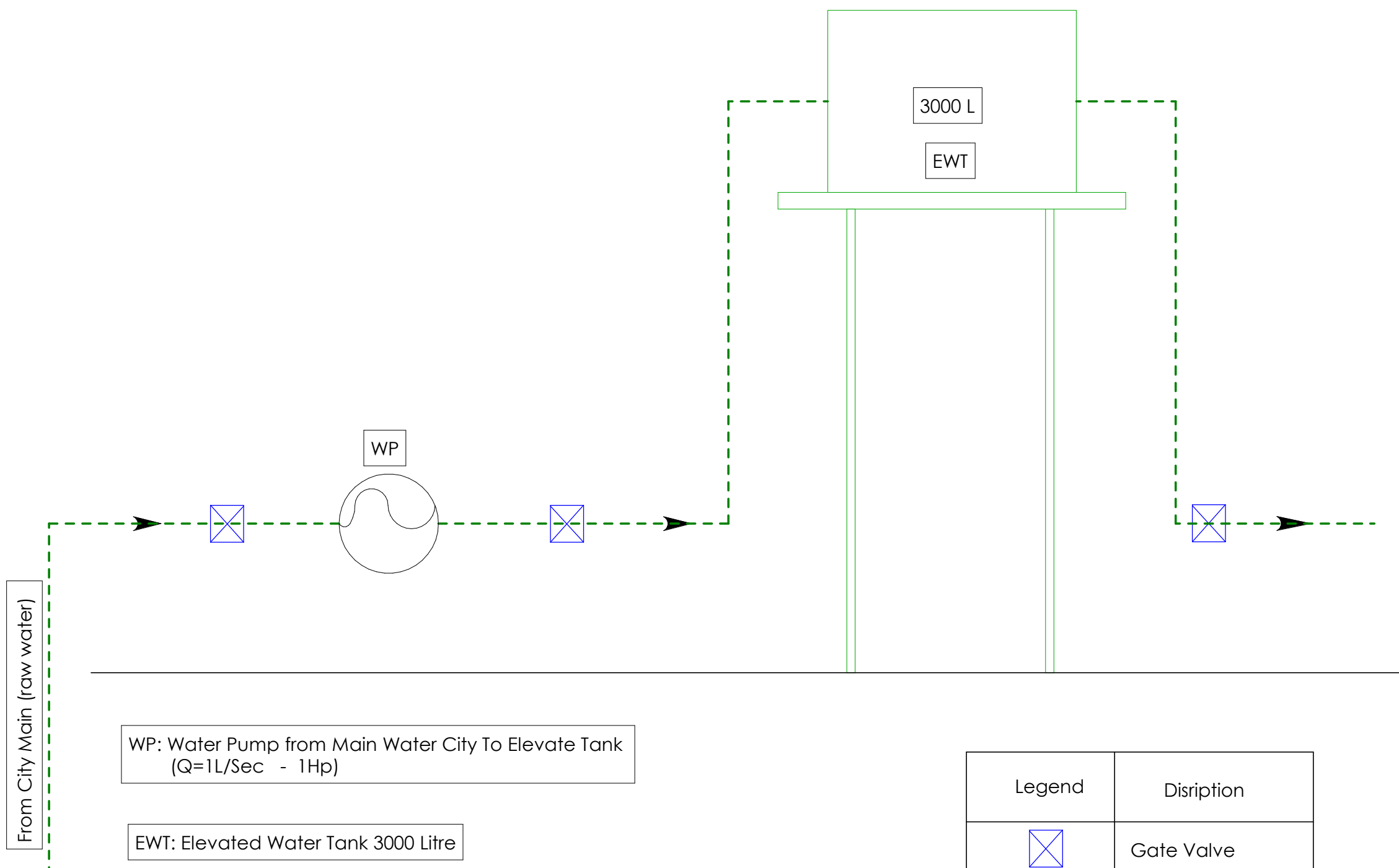
LOCATION:  
 SOUTH DARFUR  
 Northern Nyala

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

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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EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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Northern Nyala

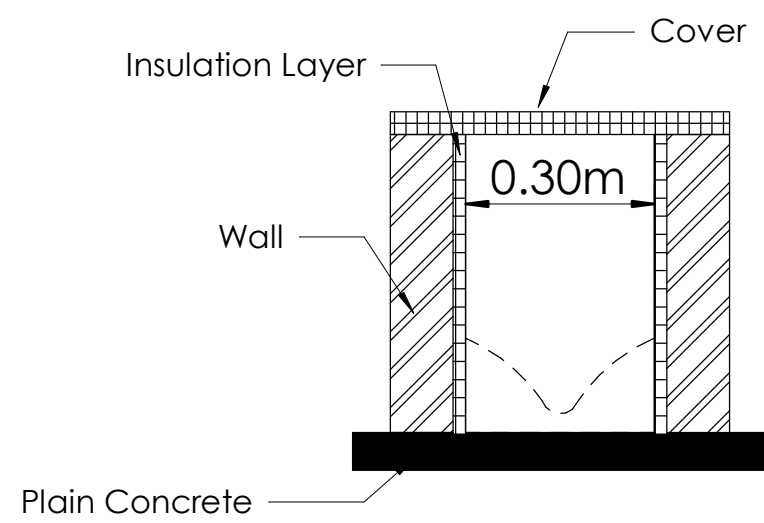
ARCHITECT :  
ENG.Rabab Azhari Fadle Elseed  
STRUCTURAL ENGINEER :

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

DRAWING TITLE :  
Plumbing - WaterTank System

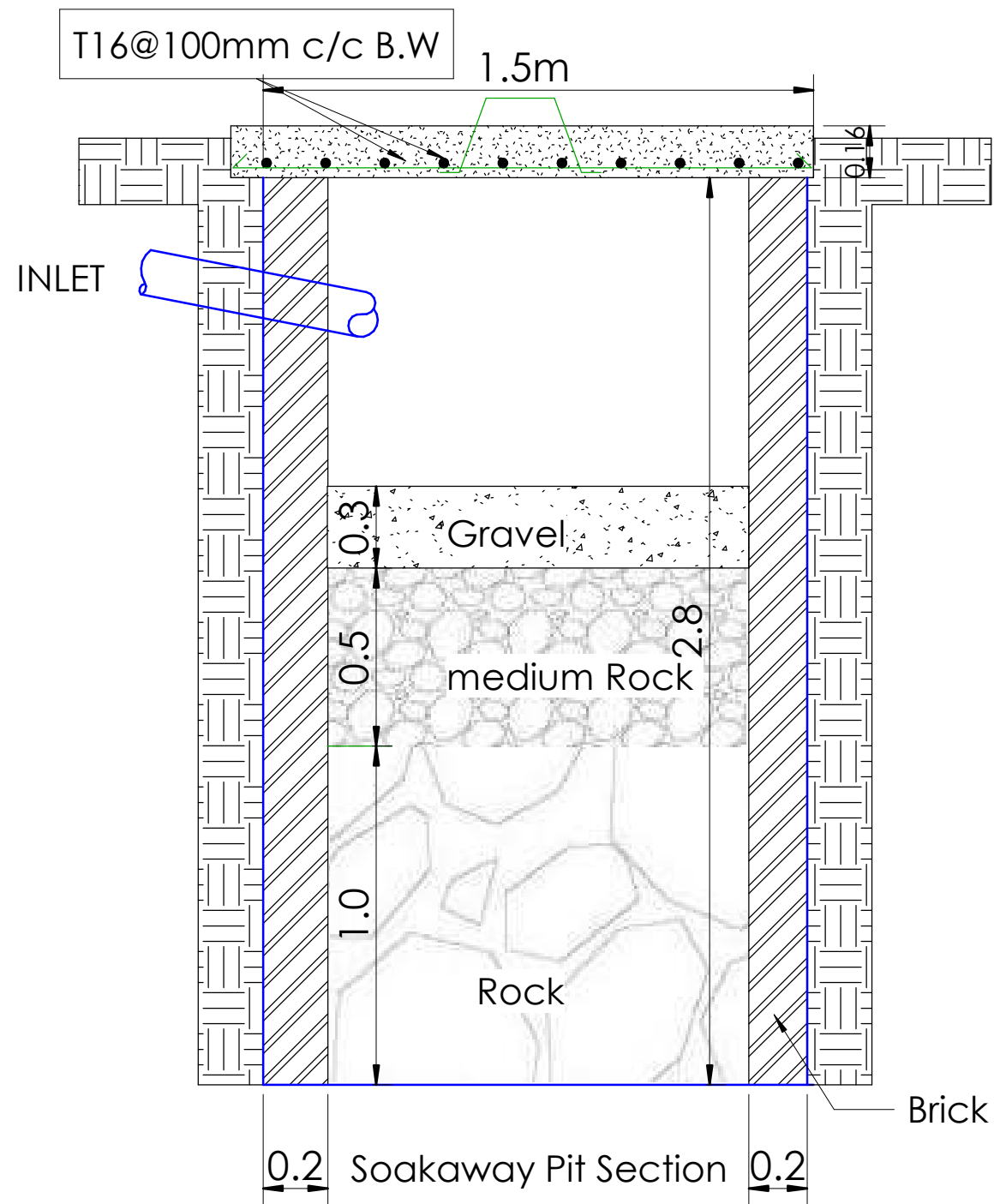
DATE : January 2022

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|------------------|-------------------------|--|
| INDEX :<br>GP_02 | SCALE :<br>As indicated |  |
|------------------|-------------------------|--|



G.T - Section

Scale 1:20



Soakaway Pit Section

Scale 1:55

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 :

Plumping - Absorbing Well details

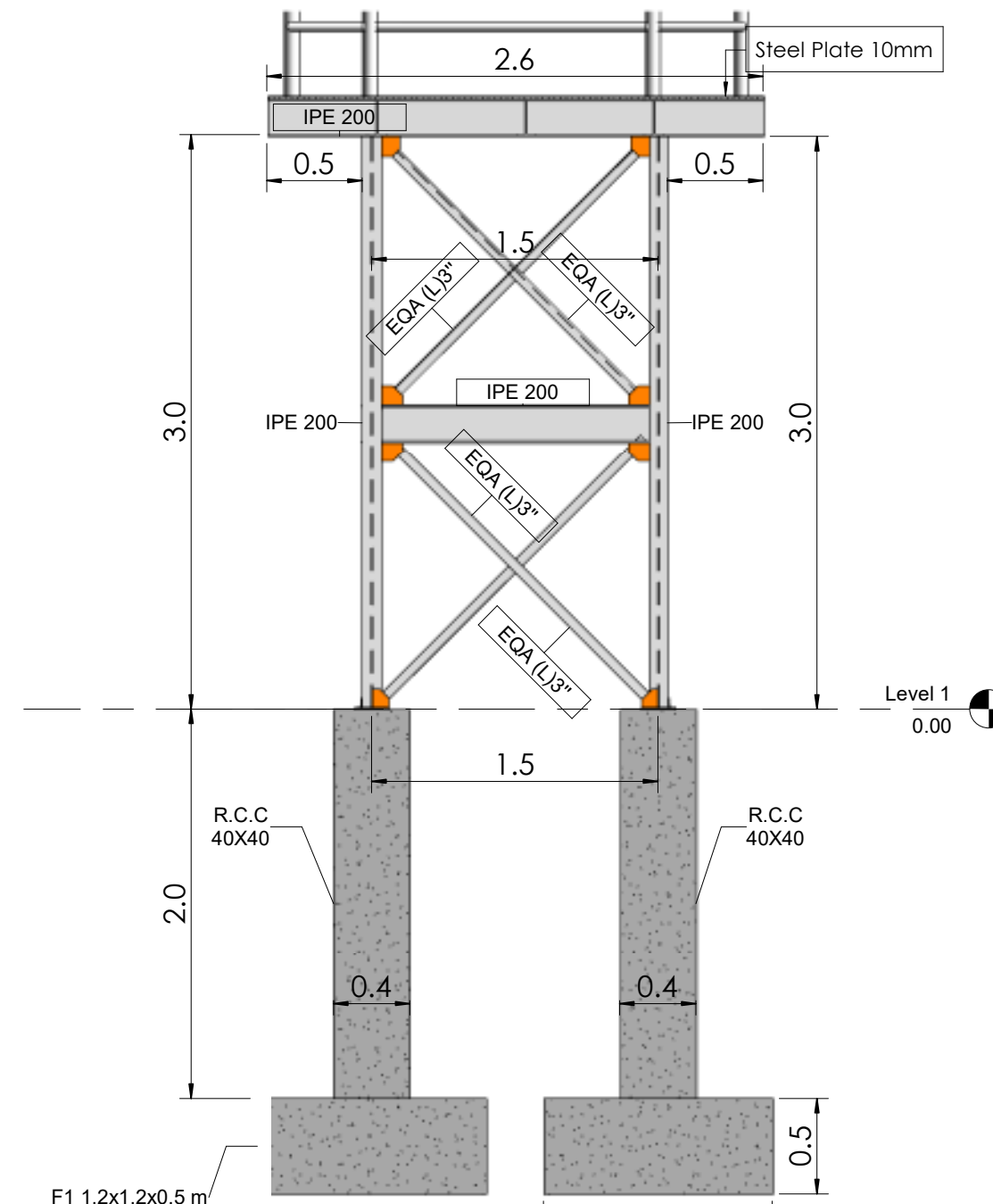
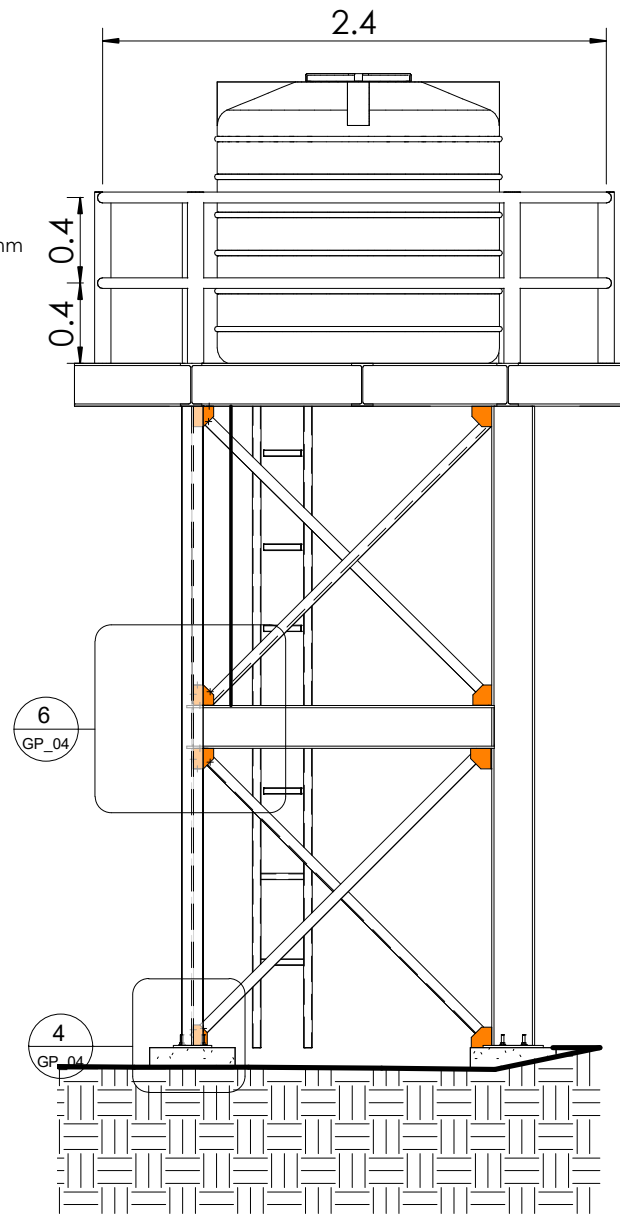
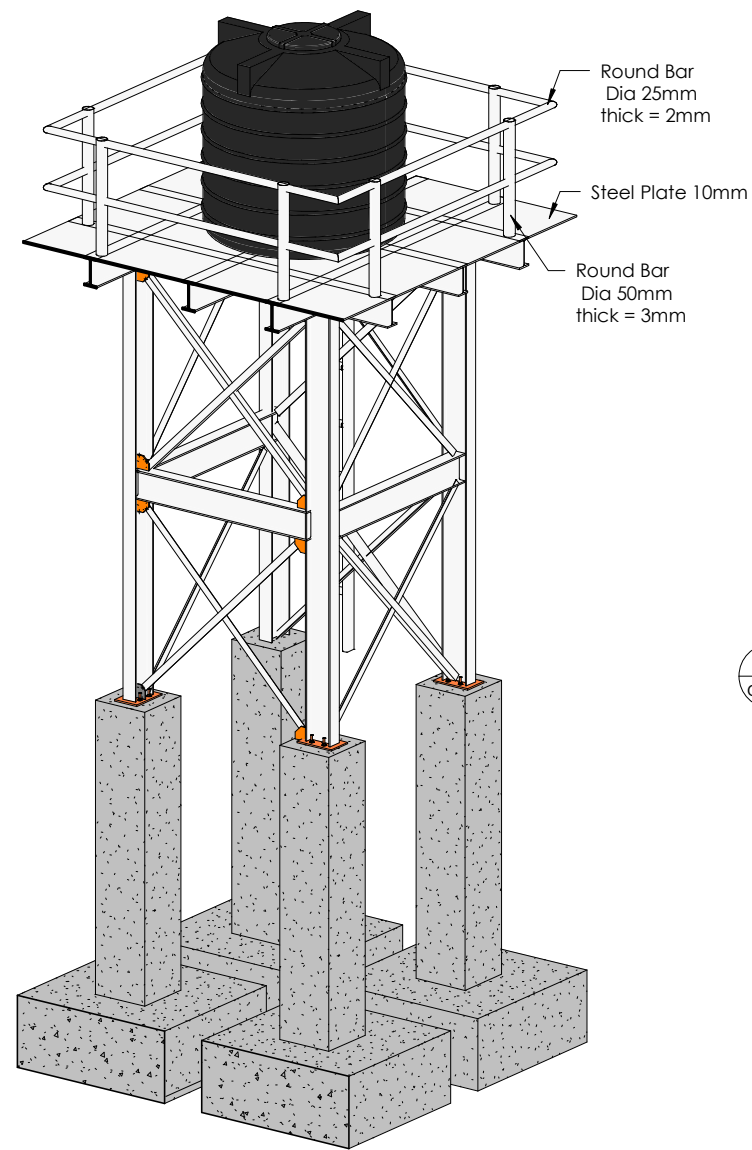
DATE: January 2022

INDEX: GP\_03

SCALE: As indicated



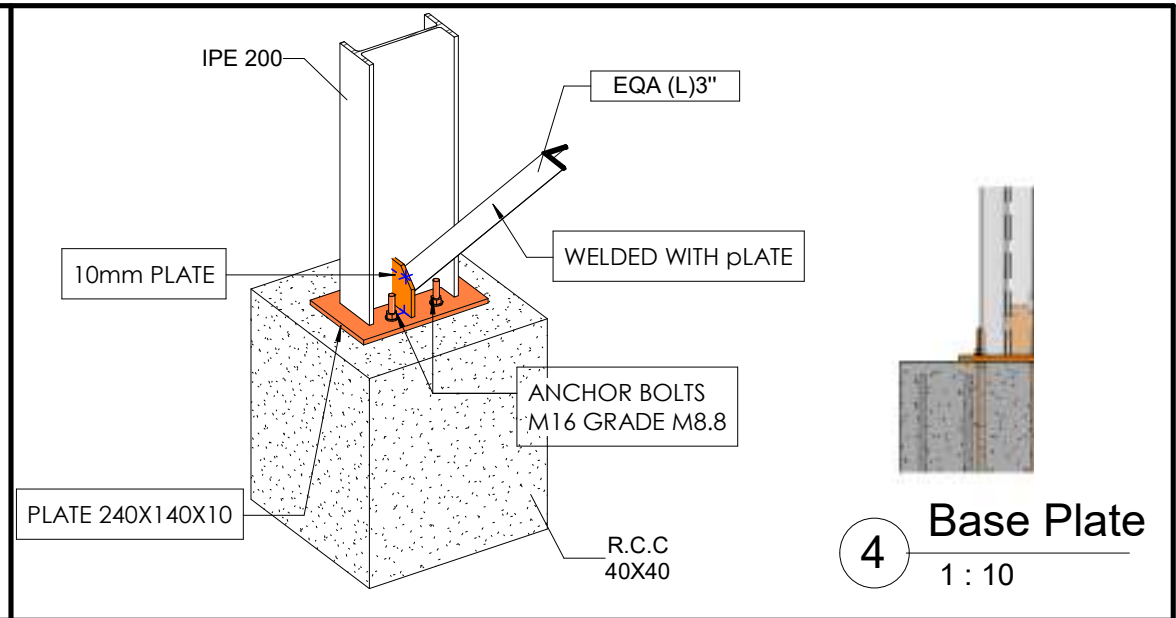
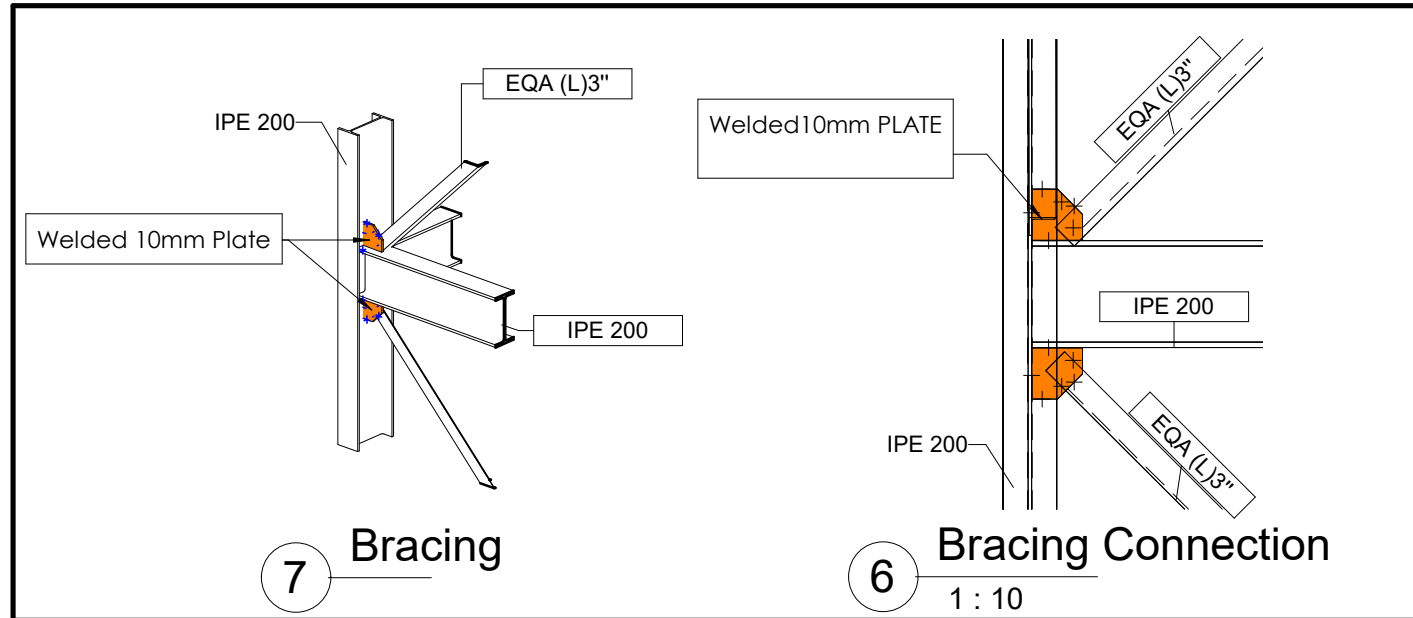




8 Water Tank - 3D

3 Elevation 1 - b  
1 : 25

2 Elevation 1 - a  
1 : 25



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TEL: +249925451234  
+249115418666  
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Northern Nyala

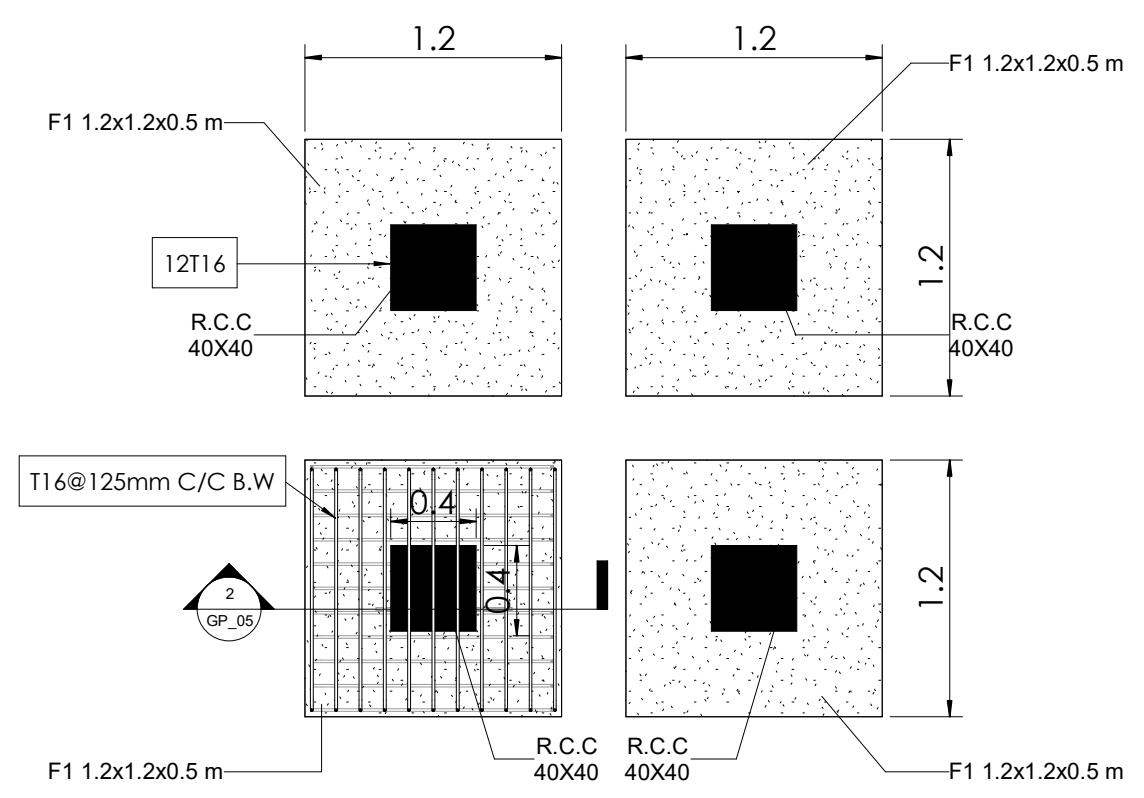
ARCHITECT :  
ENG.Rabab Azhari Fadle Elseed  
STRUCTURAL ENGINEER :  
ENG.IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY :  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :  
Water Tower Details

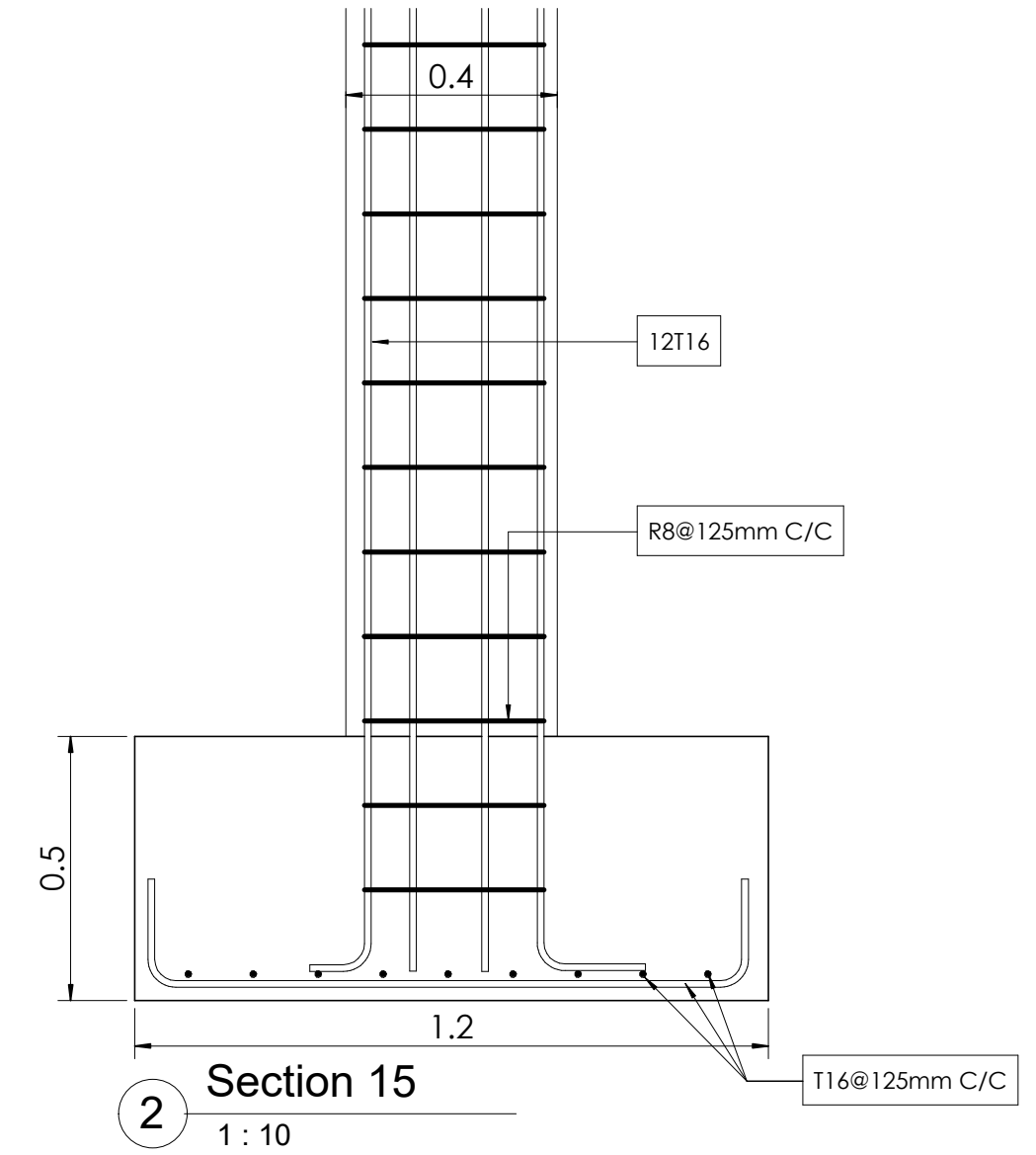
DATE: January 2022

INDEX: GP\_04  
SCALE: As indicated

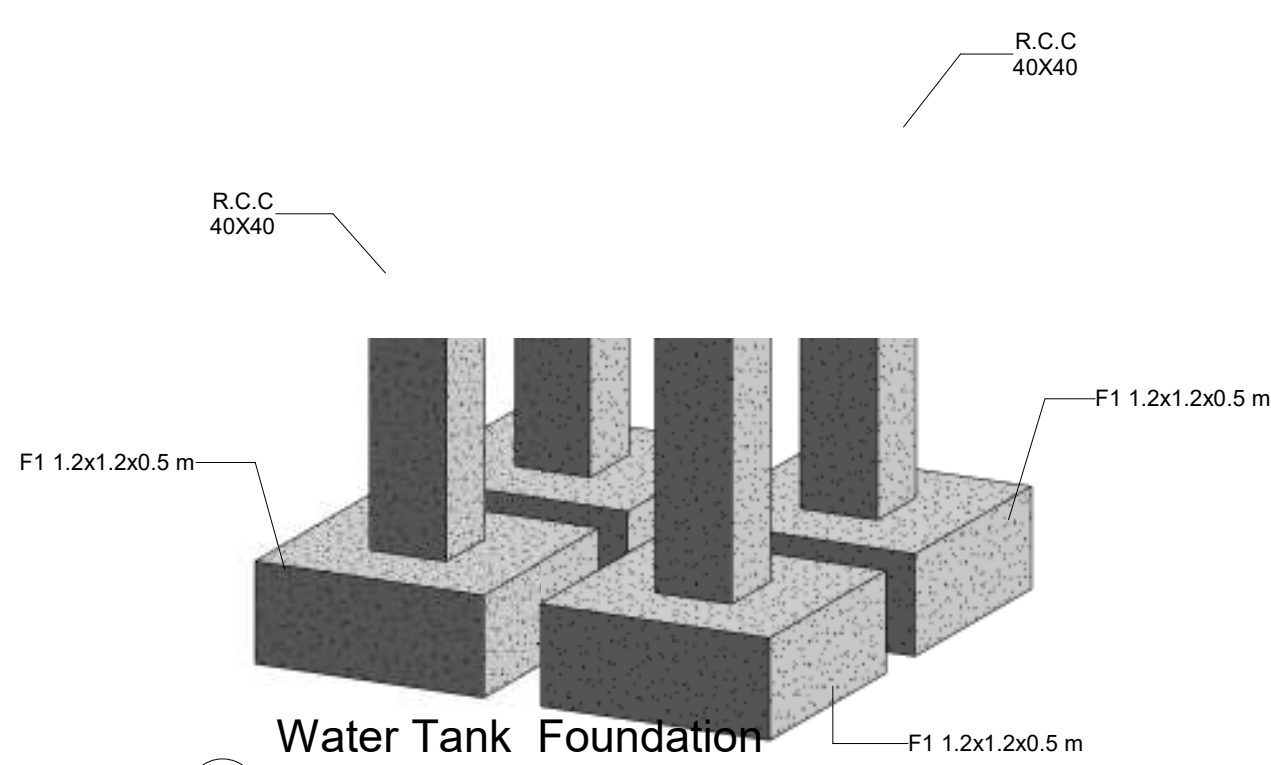




**1** Foundation Plan  
 1 : 25



**2** Section 15  
 1 : 10



**3** Water Tank Foundation (3D)

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

PROJECT TITLE :  
 HEALTH CENTER OF OTASH (NY06)

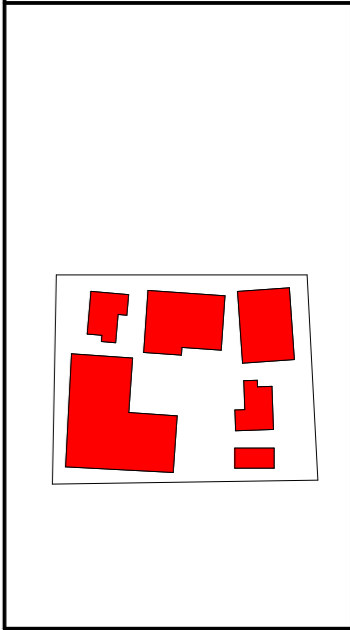
LOCATION :  
 SOUTH DARFUR  
 Northern Nyala

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

DRAWING TITLE :  
 WATER TOWER FOUNDATION  
 DETAILS

DATE : January 2022

|                  |                         |  |
|------------------|-------------------------|--|
| INDEX :<br>GP_05 | SCALE :<br>As indicated |  |
|------------------|-------------------------|--|



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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:  
GENERAL PLAN ELECTRICAL LAYOUT

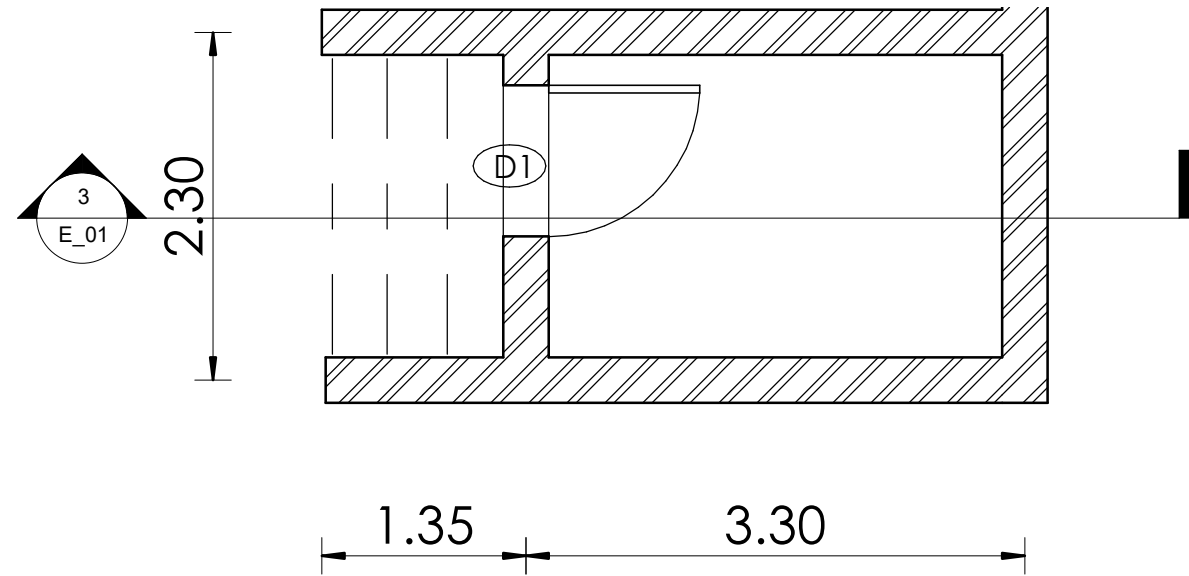
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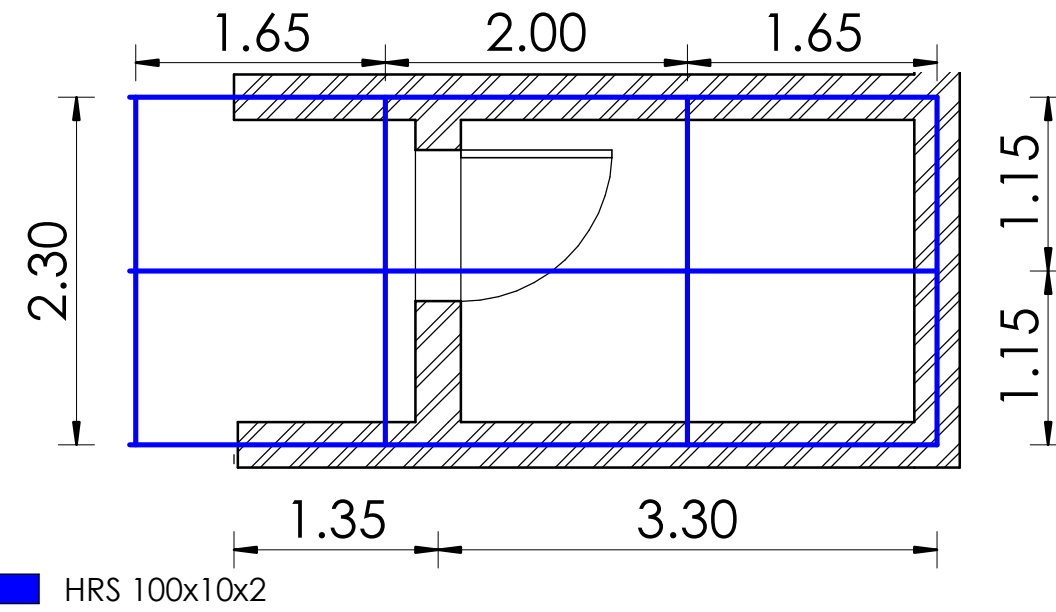


| DESCRIPTION |                          |
|-------------|--------------------------|
|             | SINGLE LIGHT SWITCH      |
|             | DOUBLE LIGHT SWITCH      |
|             | TRIPLE LIGHT SWITCH      |
|             | SOCKET OUTLET POINT      |
|             | AC SWITCH 45 AMP         |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

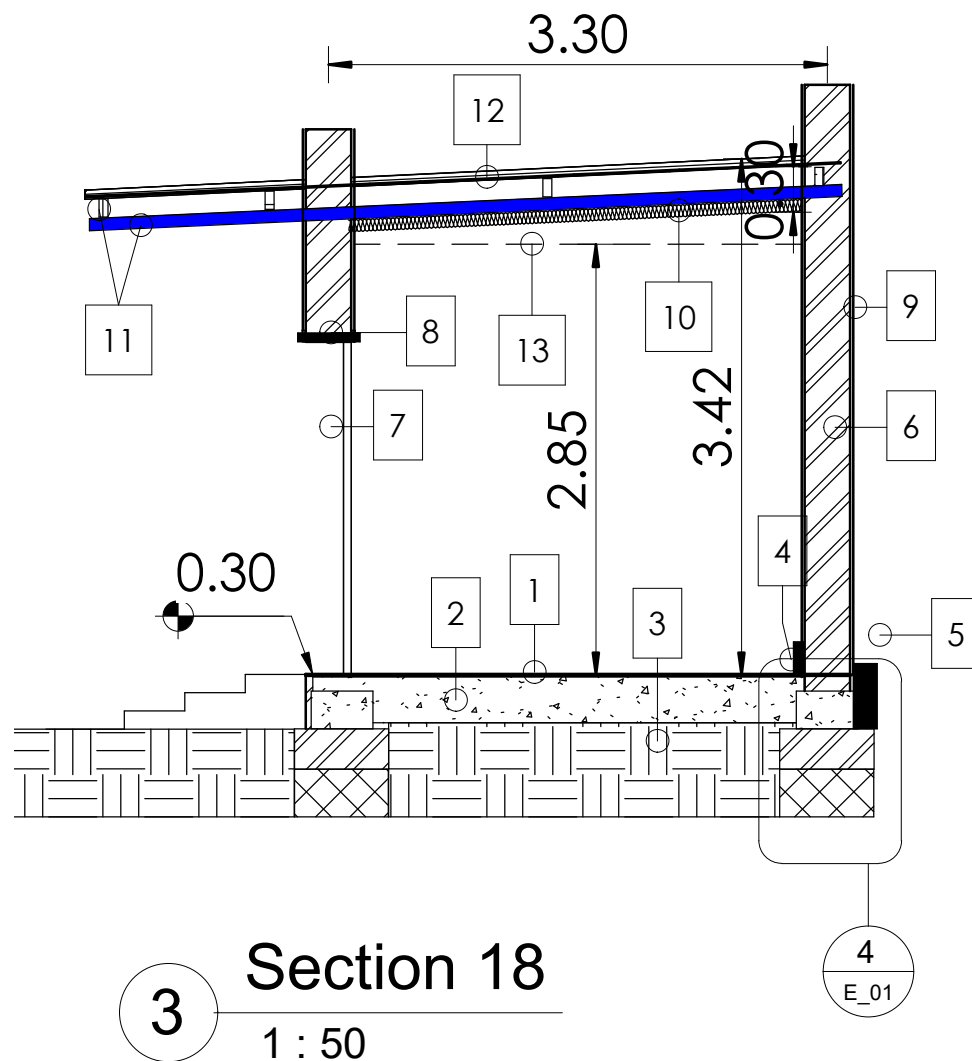
**1** GENERAL PLAN  
1 : 150



**1** Electrical room plan.  
1 : 50

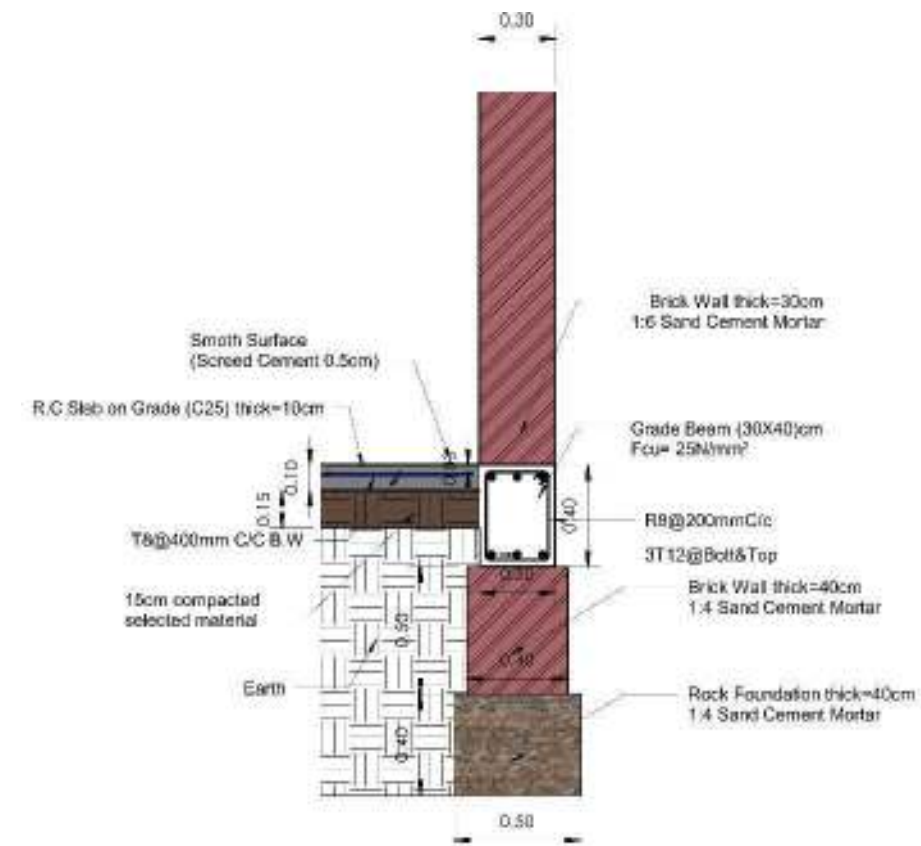


**2** Electrical room roof plan  
1 : 50



|    |                           |
|----|---------------------------|
| 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             |

**3** Section 18  
1 : 50



**4** Section 18 - Callout 1  
1 : 50



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ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

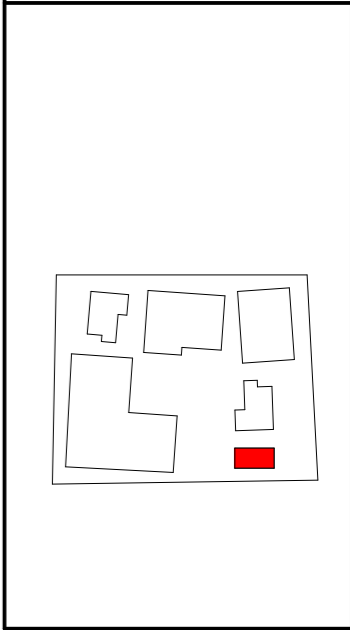
Electrical Room

DATE: JANUARY 2022

INDEX: SCALE:

E\_01 1 : 50





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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

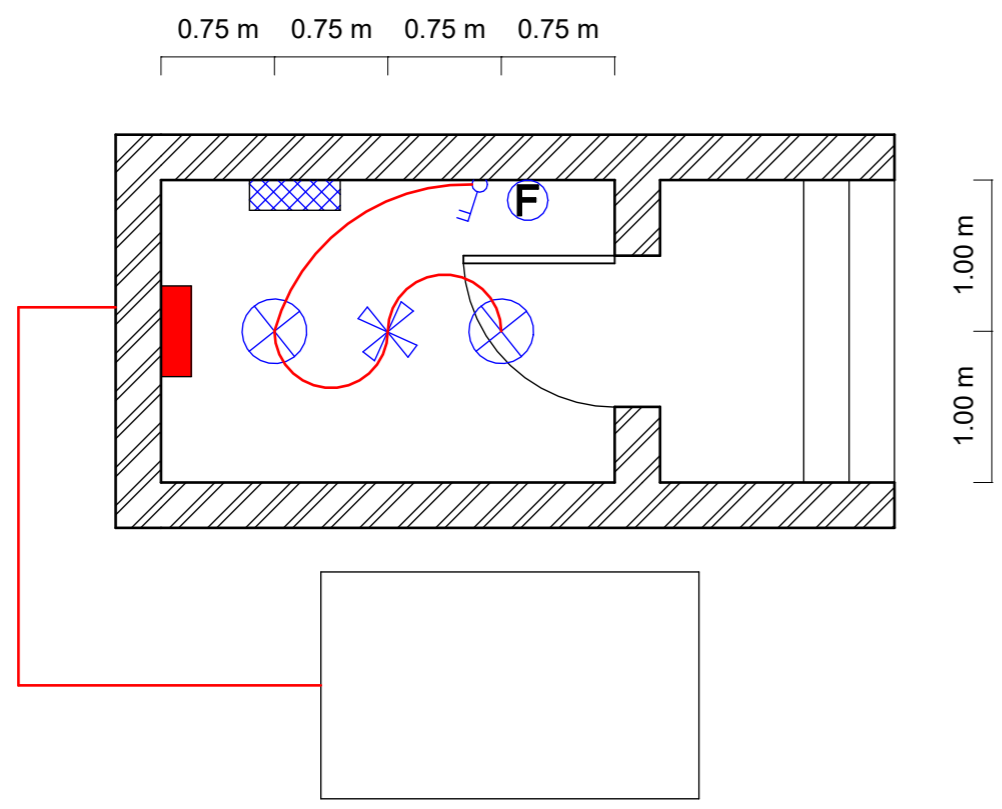
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:  
 ENG.MOHAMMED SALAH ALAMIR  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 ELECTRICAL ROOM ELECTRICAL LAYOUT

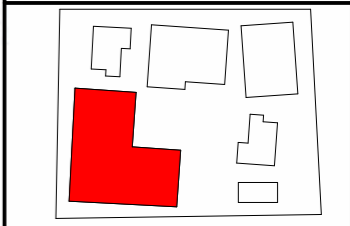
DATE: JANUARY 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>E_02 | SCALE:<br>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



| Legend |  |
|--------|--|
|        | new internal flooring(+0.30)with ceramic tiles (40x40cm) |
|        | Screed cement finishing                                  |
|        | skirting ceramic H=10cm                                  |
|        | wall ceramic tiles (15x15cm)                             |
|        | new building   |
|        | Wooden Planks  |

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

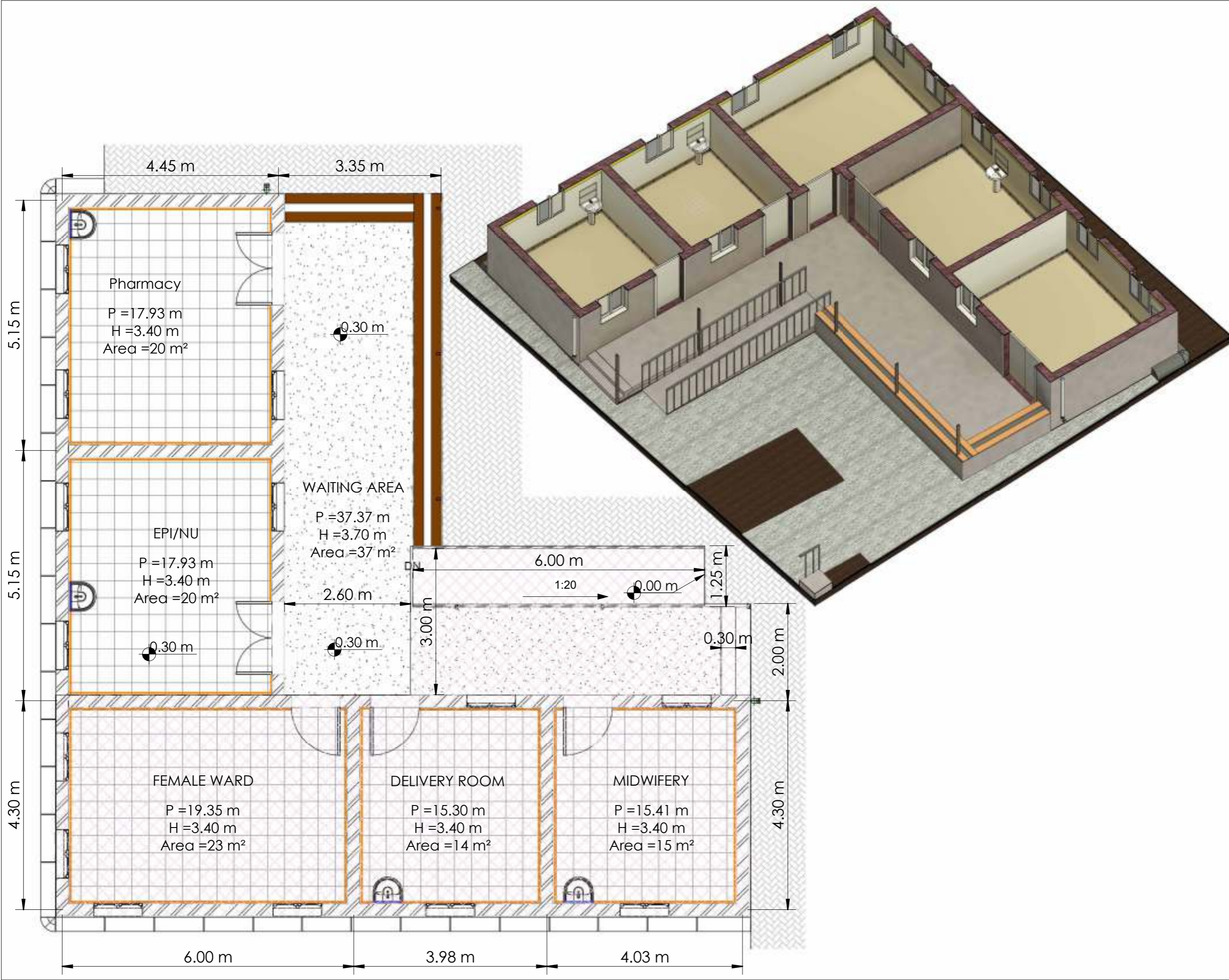
PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

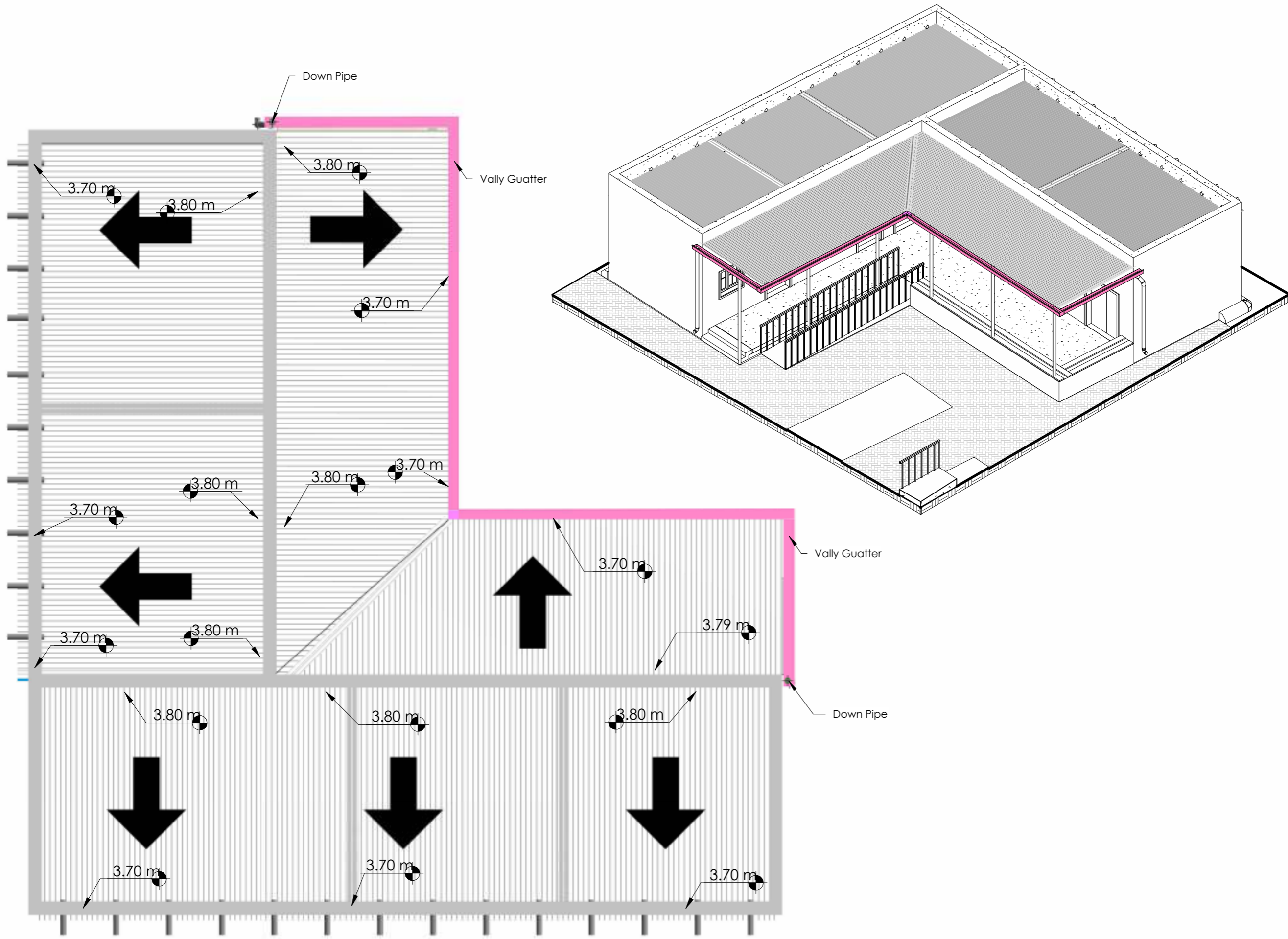
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

DRAWING TITLE:  
 GROUND FLOOR PLAN

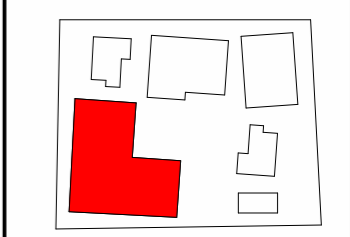
DATE: January 2022  
 INDEX: A\_01      SCALE: As indicated





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

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



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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

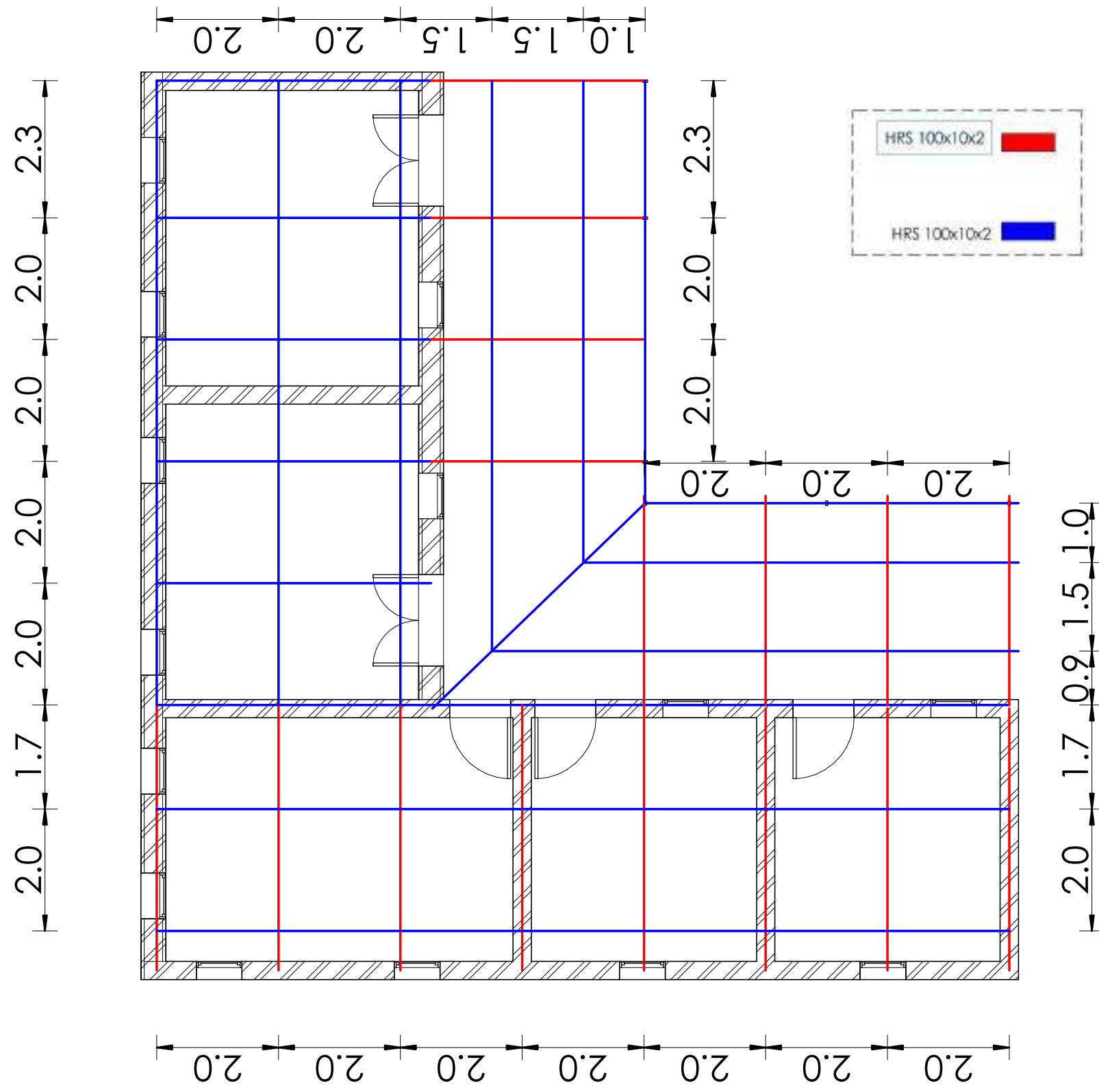
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

DRAWING TITLE:  
 ROOF PLAN

DATE: January 2022

|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| A_02   | 1 : 70 |  |



1 Roof Structure Plan  
1 : 85



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AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

LOCATION:  
SOUTH DARFUR  
Northern Nyala

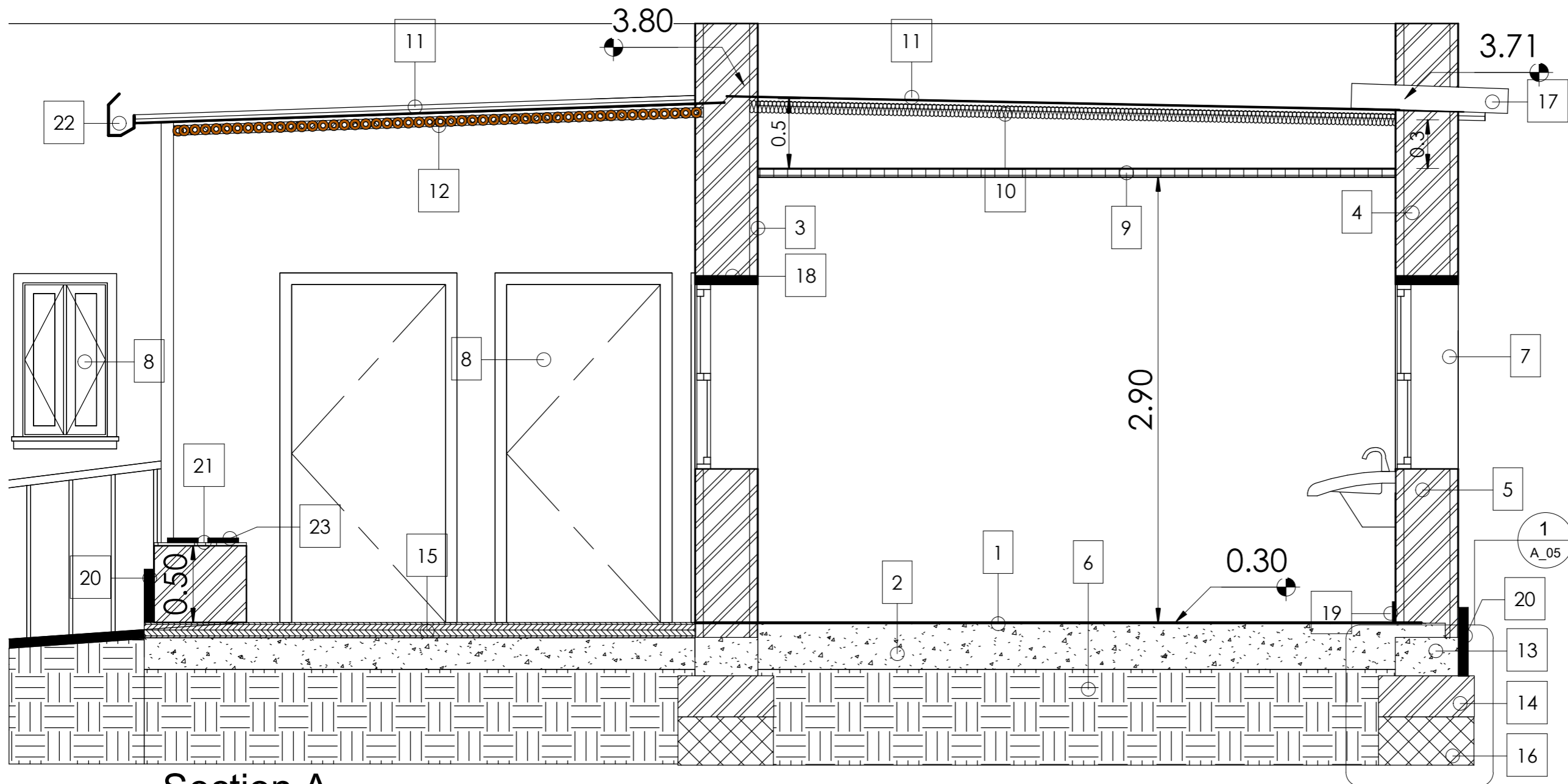
STRUCTURAL ENGINEER:  
ENG. IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
Roof Structure Plan

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>A_03 | SCALE:<br>1 : 85 |  |
|----------------|------------------|--|





**1** 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 |                   |

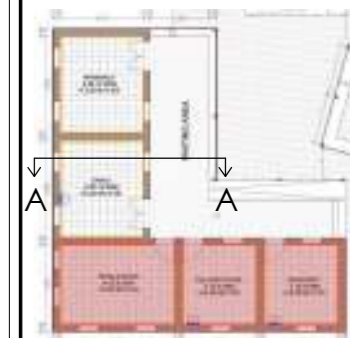


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TEL: +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto: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

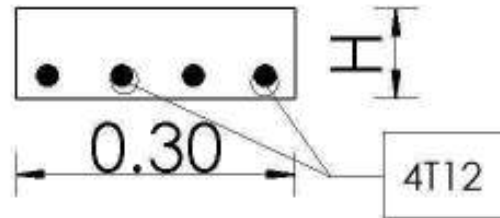
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Roof Section

DATE: January 2022

INDEX: A\_04      SCALE: 1 : 30

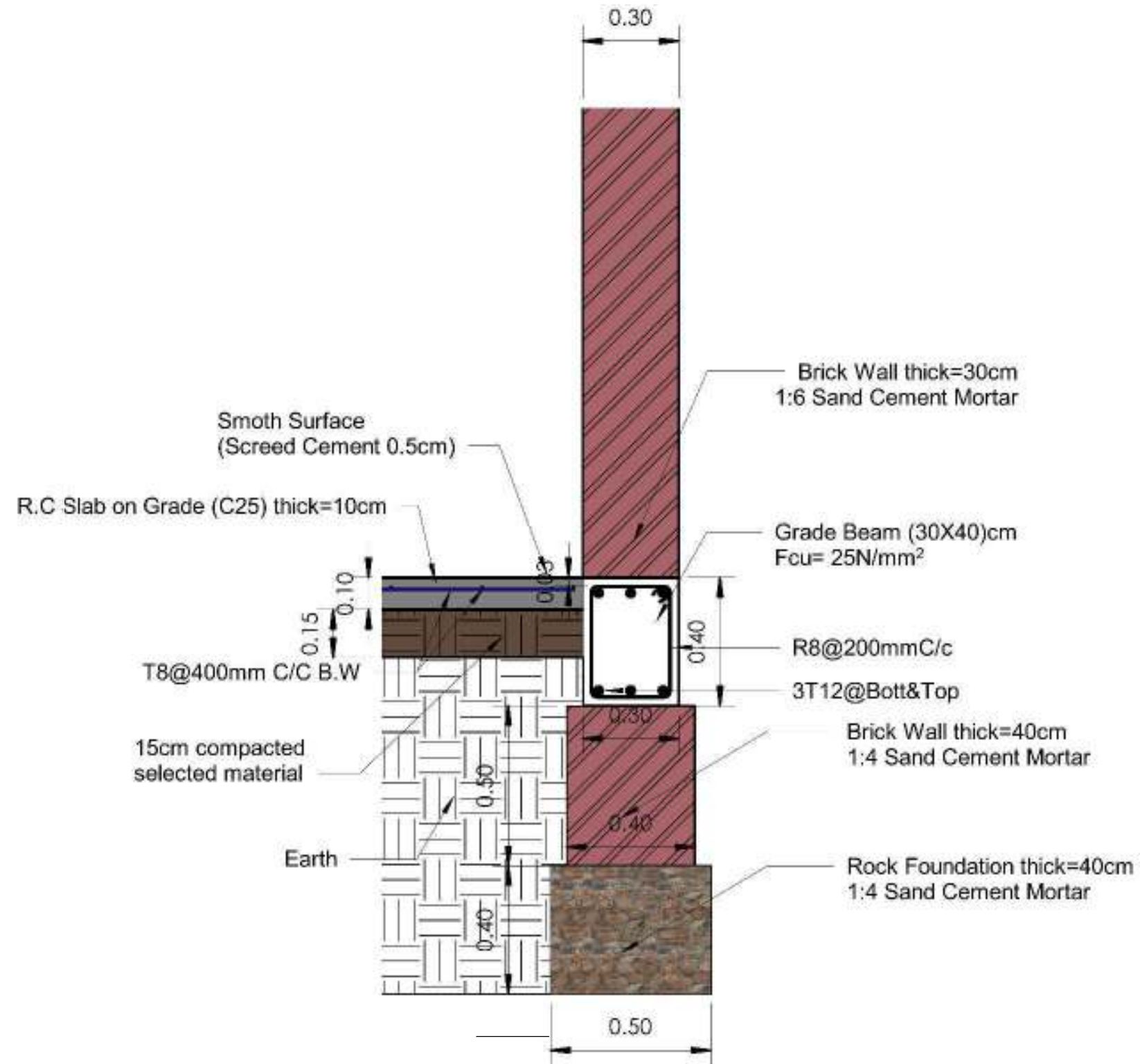


Lintel Beam



H = 10cm for opening width = < 1 m

H = 15cm for opening width > 1 m



1 Callout A  
1 : 15



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Cooperation – SDN  
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Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL. +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto: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 :

Lintel Beam and Callout

DATE: January 2022

INDEX :

A\_05

SCALE :

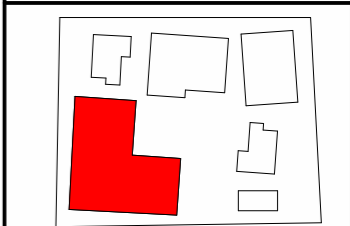
1 : 15





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TEL: +249925451234  
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| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | wodden bambo sticks  |
|        | steel column 10X5 cm |
|        | Wodden Planks        |
|        | Curbstone            |
|        | inter lock           |

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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

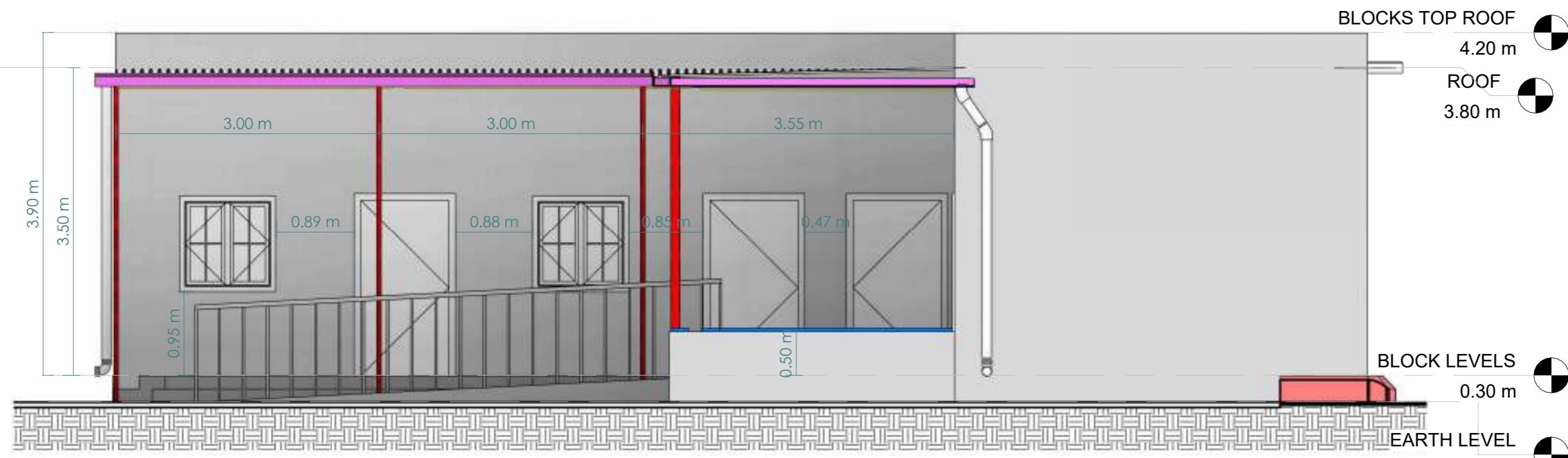
LOCATION:  
SOUTH DARFUR NORTHERN NYALA

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

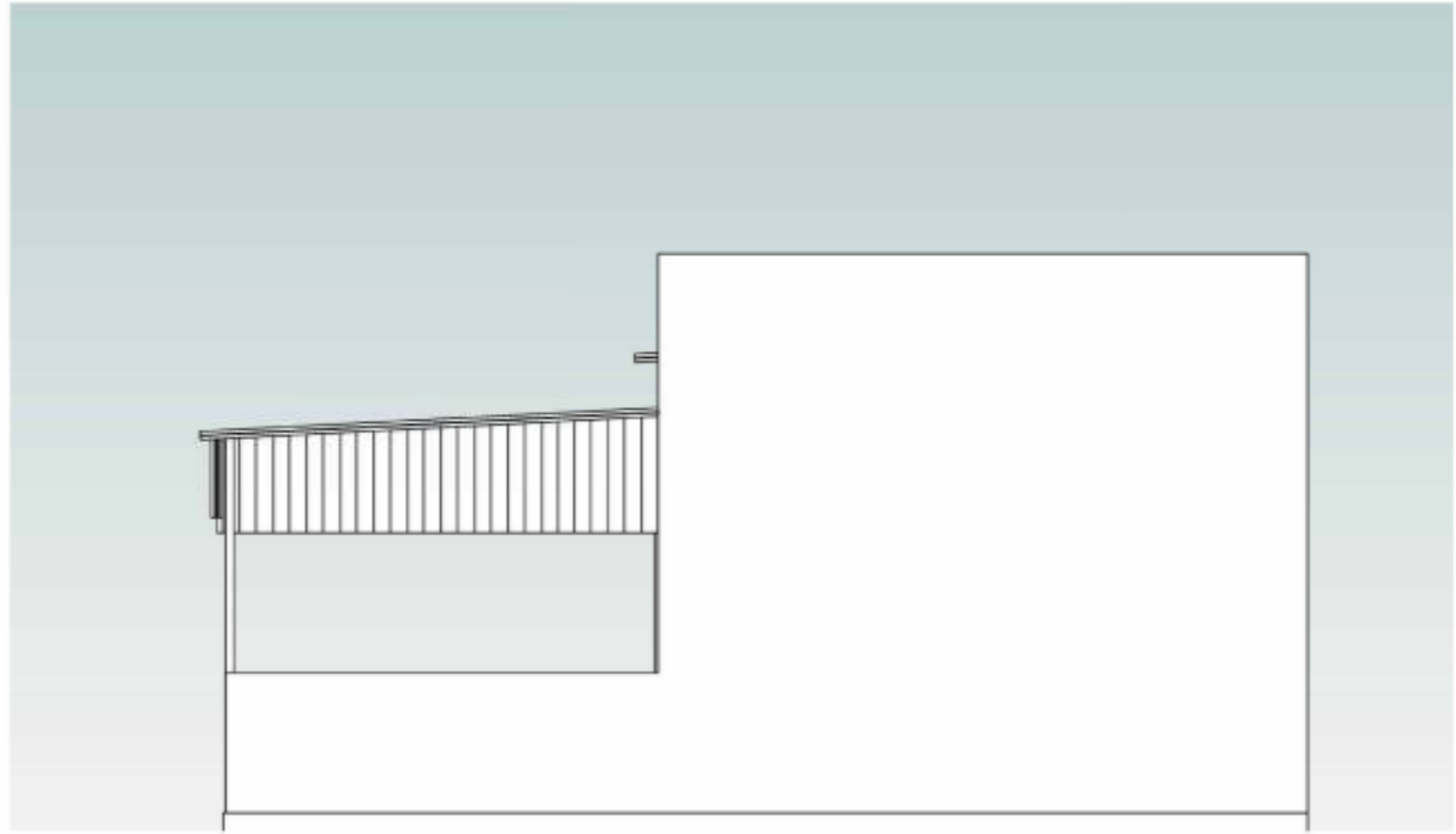
DRAWING TITLE:  
ELEVATIONS

DATE: January 2022

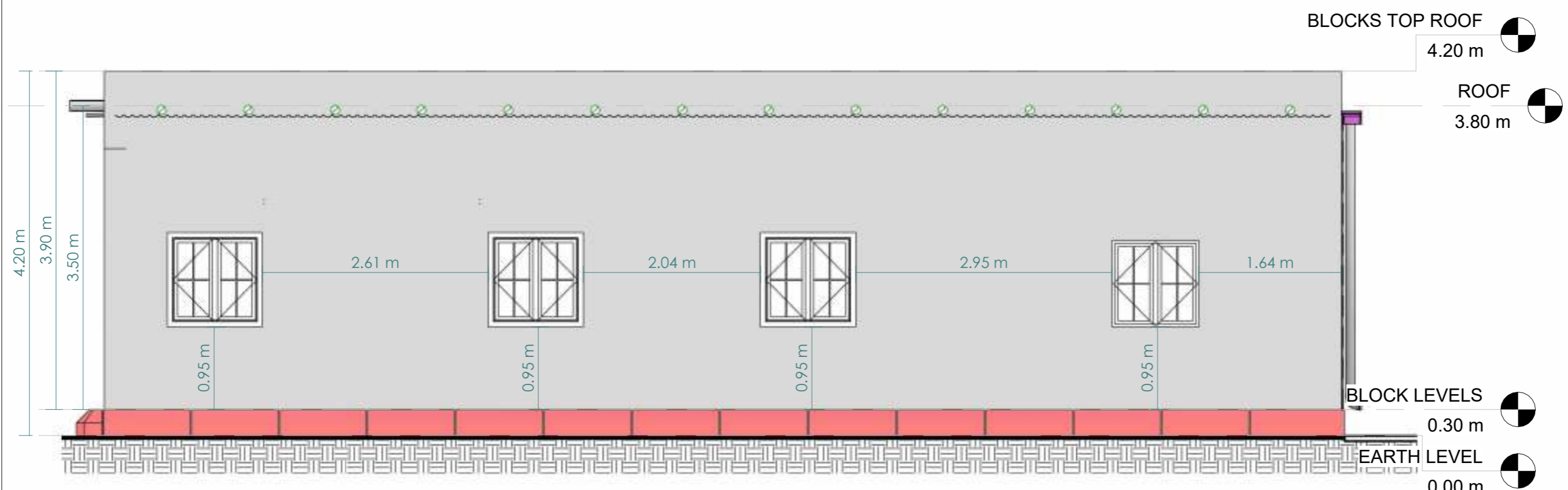
|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>A_06 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



**1** BLOCK A NORTH ELEVATION  
1 : 50



North Elevation Before



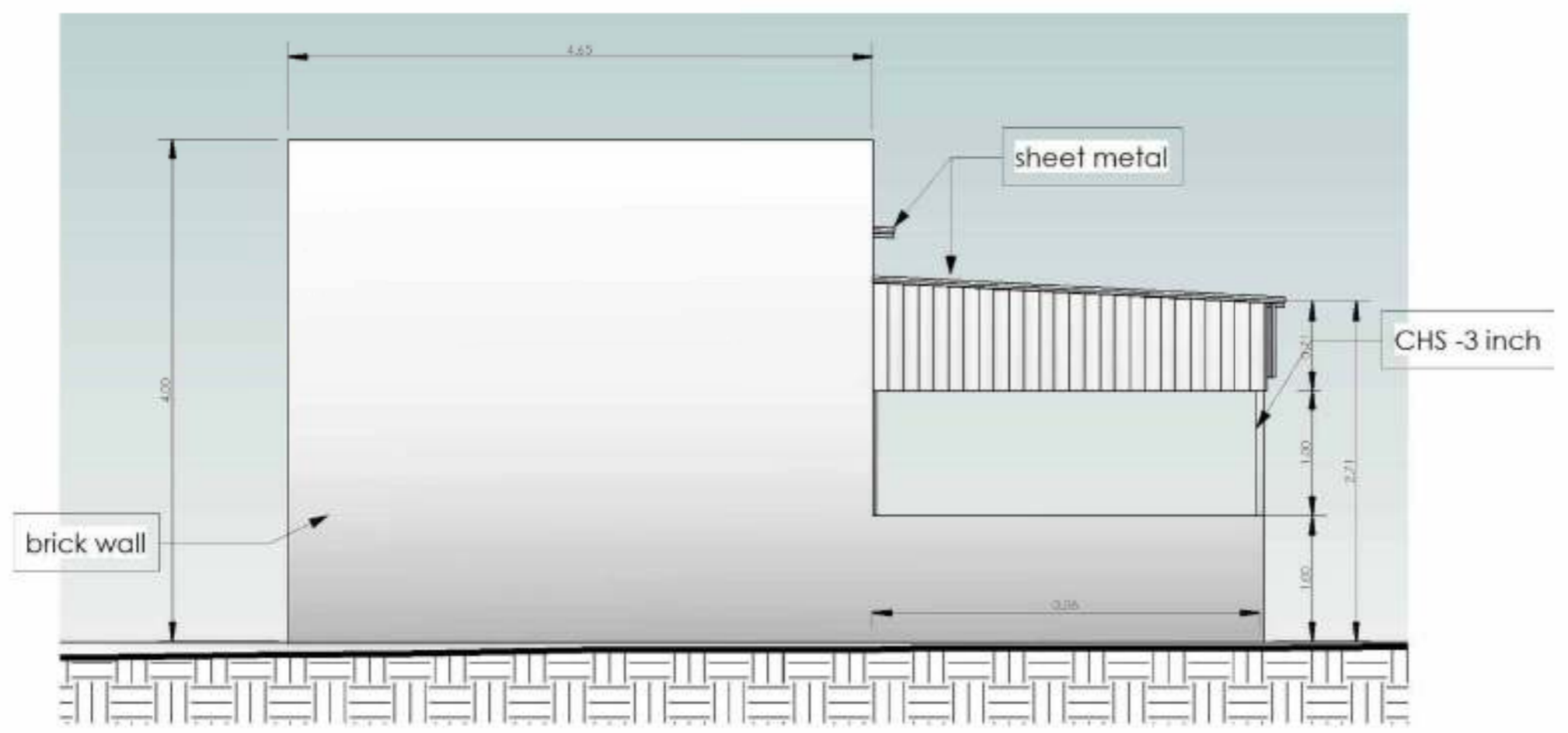
BLOCKS TOP ROOF 4.20 m

ROOF 3.80 m

BLOCK LEVELS 0.30 m

EARTH LEVEL 0.00 m

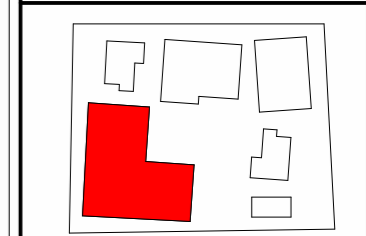
1 BLOCK A SOUTH ELEVATION AFTER  
1 : 50



South Elevation Before

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



Legend

|  |                      |
|--|----------------------|
|  | vally gutter         |
|  | wodden bambo sticks  |
|  | steel column 10X5 cm |
|  | Wodden Planks        |
|  | Curbstone            |
|  | inter lock           |

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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

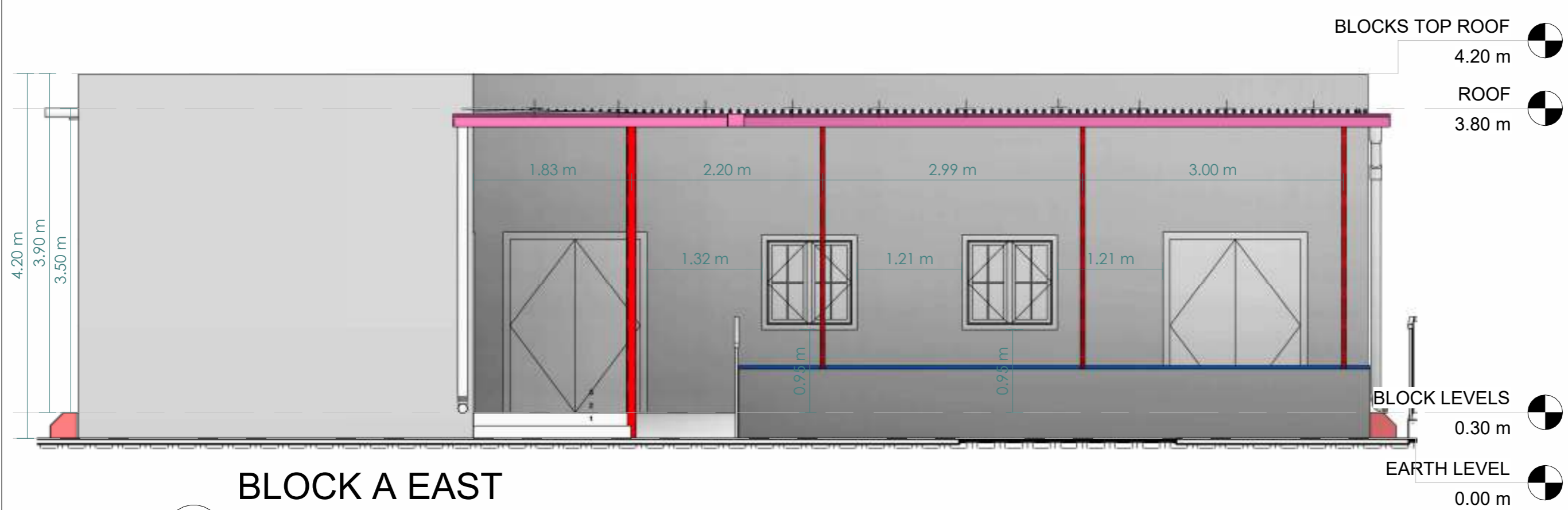
LOCATION:  
SOUTH DARFUR NORTHERN NYALA

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

DRAWING TITLE:  
ELEVATIONS

DATE: January 2022

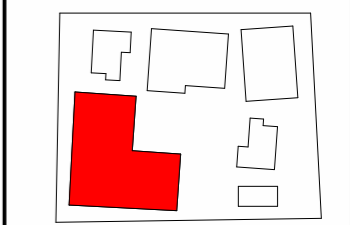
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|----------------|------------------|--|
| INDEX:<br>A_07 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



**1** BLOCK A EAST  
ELEVATION AFTER  
1 : 50

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AL-Amarat Mohamed Najeeb Street, Khartoum  
TEL. +249925451234  
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EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | wooden bambo sticks  |
|        | steel column 10X5 cm |
|        | Woodden Planks       |
|        | Curbstone            |
|        | inter lock           |

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

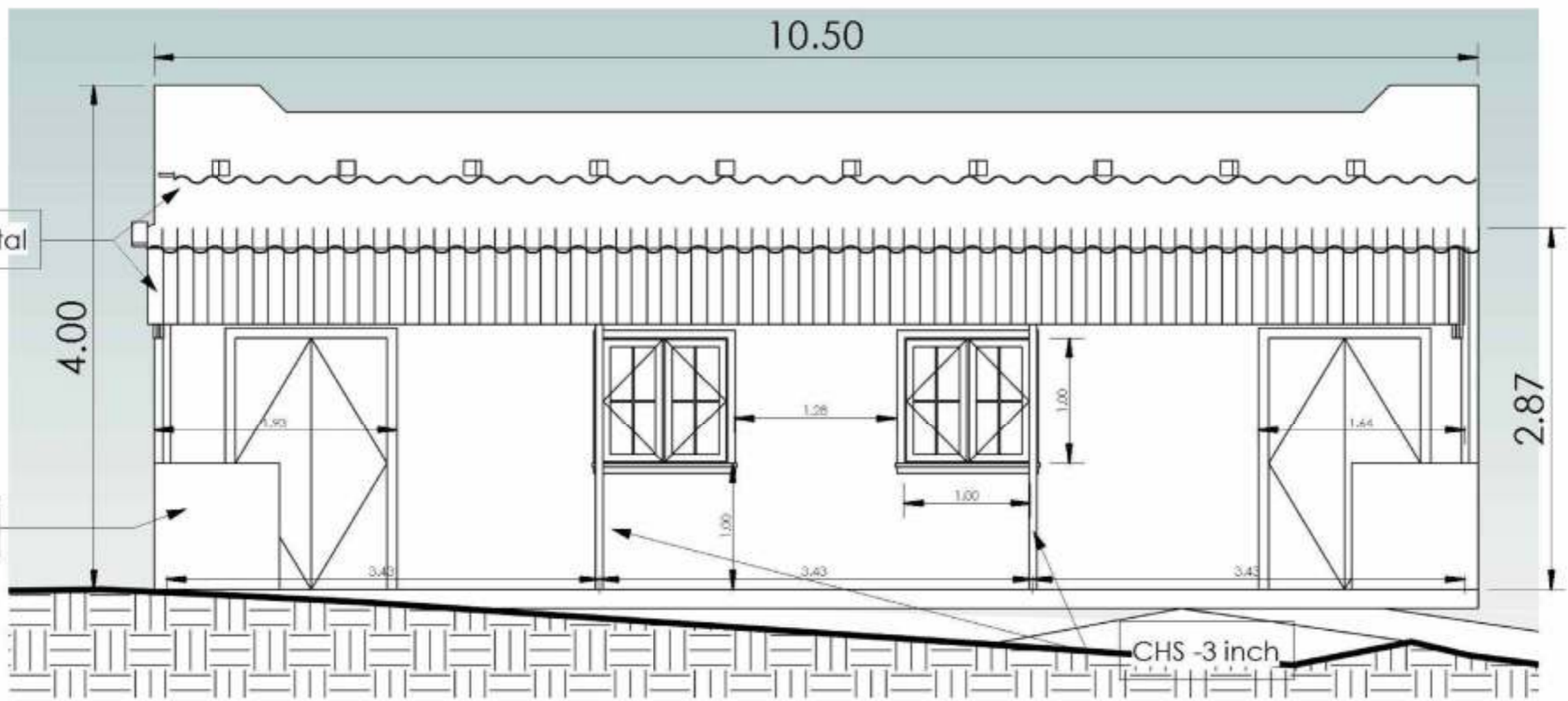
PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

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\_08 SCALE: 1 : 50



East Elevation Before

| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | wodden bambo sticks  |
|        | steel column 10X5 cm |
|        | Wodden Planks        |
|        | Curbstone            |
|        | inter lock           |

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

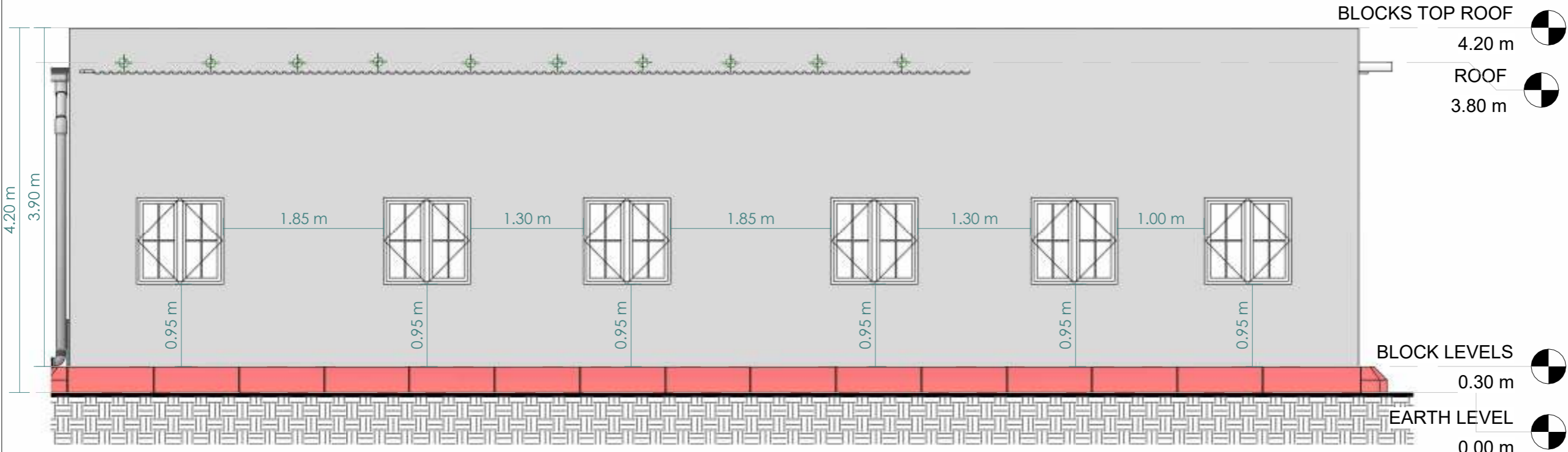
PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

LOCATION:  
SOUTH DARFUR NORTHERN NYALA

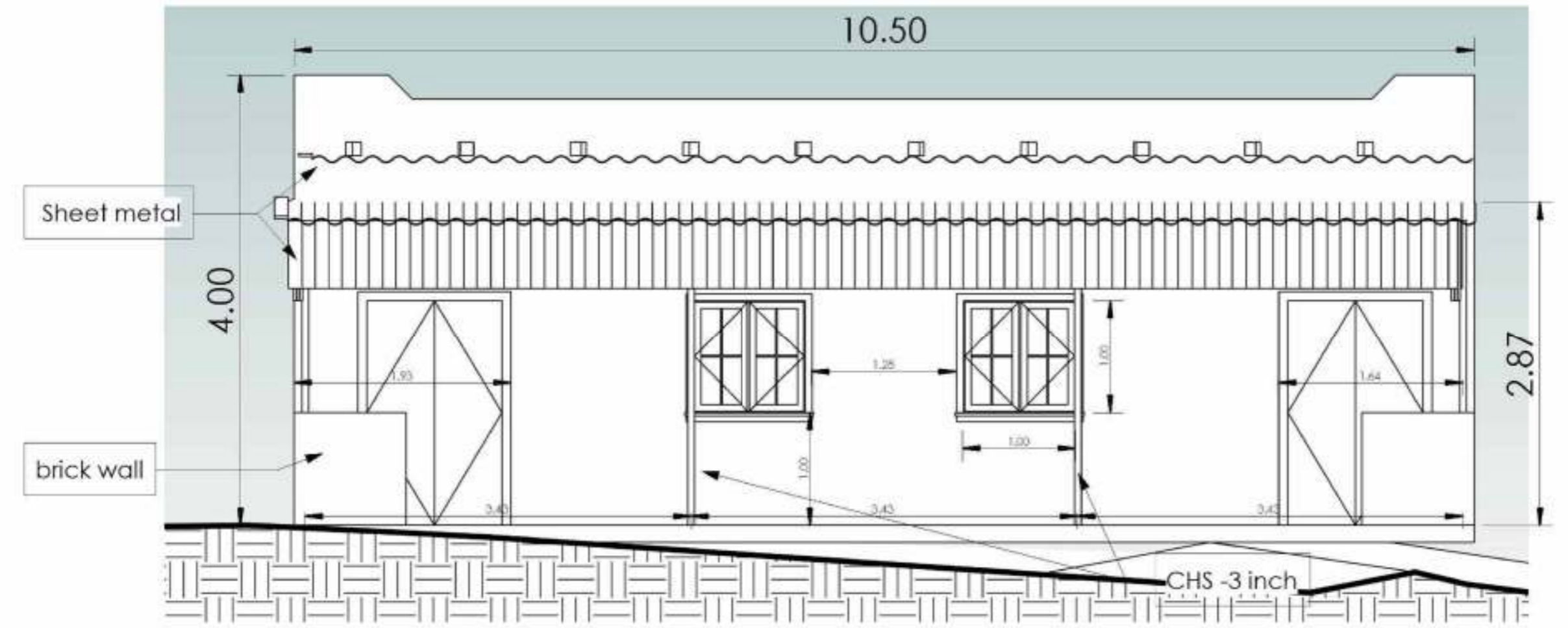
ARCHITECTURAL ENGINEER:  
ENG. IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
ELEVATIONS

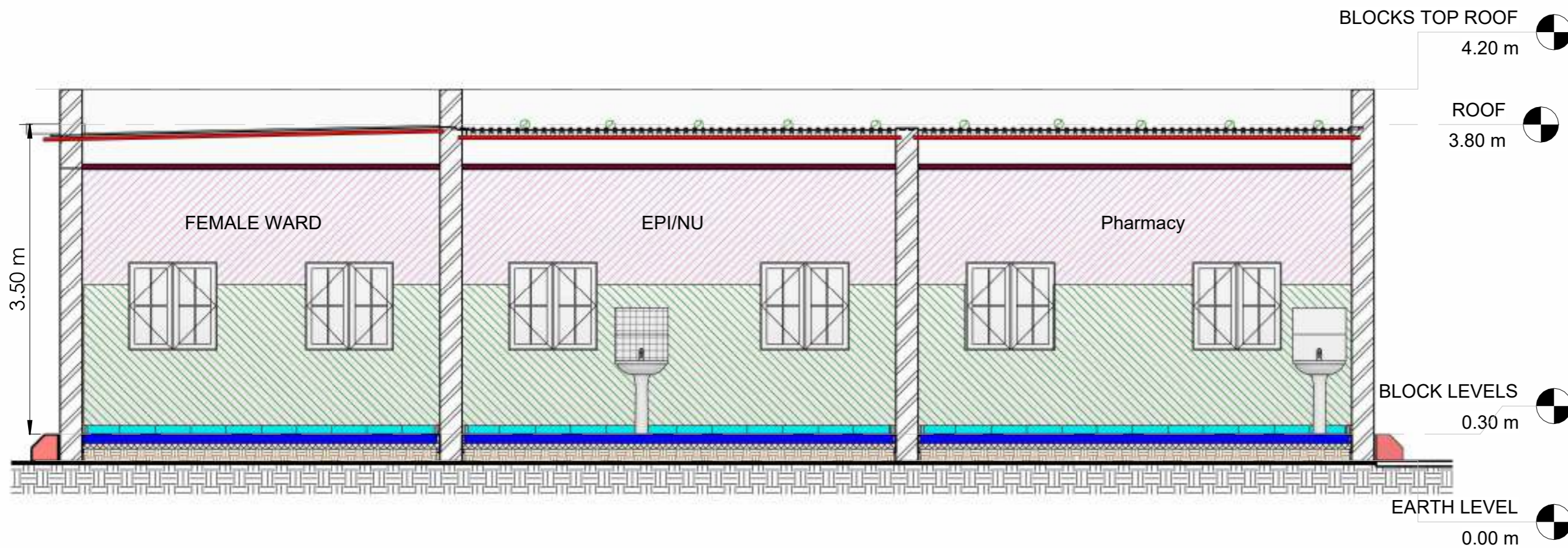
DATE: January 2022  
INDEX: A\_09 SCALE: 1 : 50



**1** BLOCK A WEST ELEVATION AFTER  
1 : 50



West Elevation Before

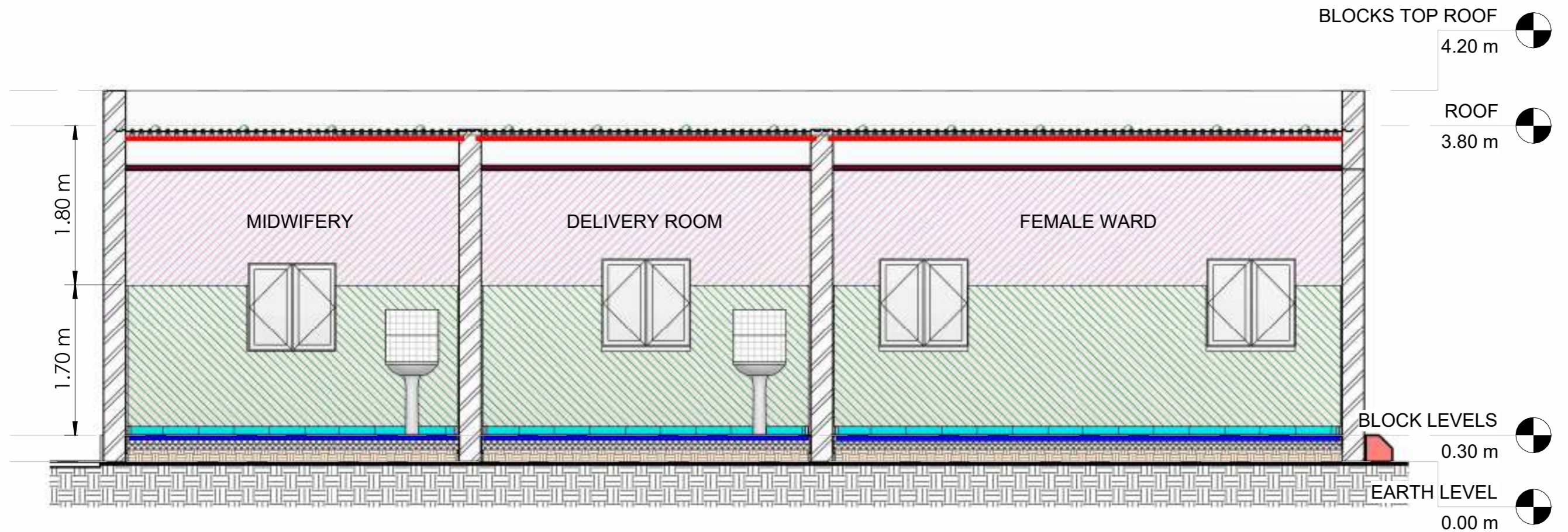


BLOCKS TOP ROOF 4.20 m

ROOF 3.80 m

BLOCK LEVELS 0.30 m

EARTH LEVEL 0.00 m



BLOCKS TOP ROOF 4.20 m

ROOF 3.80 m

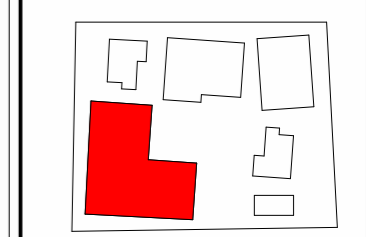
BLOCK LEVELS 0.30 m

EARTH LEVEL 0.00 m



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 +249115418666  
 EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



**Legend**

|  |  |
|--|--|
|  | Steel column 10X5 cm                               |
|  | False ceiling                                      |
|  | Emulsion paint (internal) from 1.70m up to ceiling |
|  | Glossy oil paint (internal) from floor up to 1.70m |
|  | Wall Tiles 15X15                                   |
|  | Skirting 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)

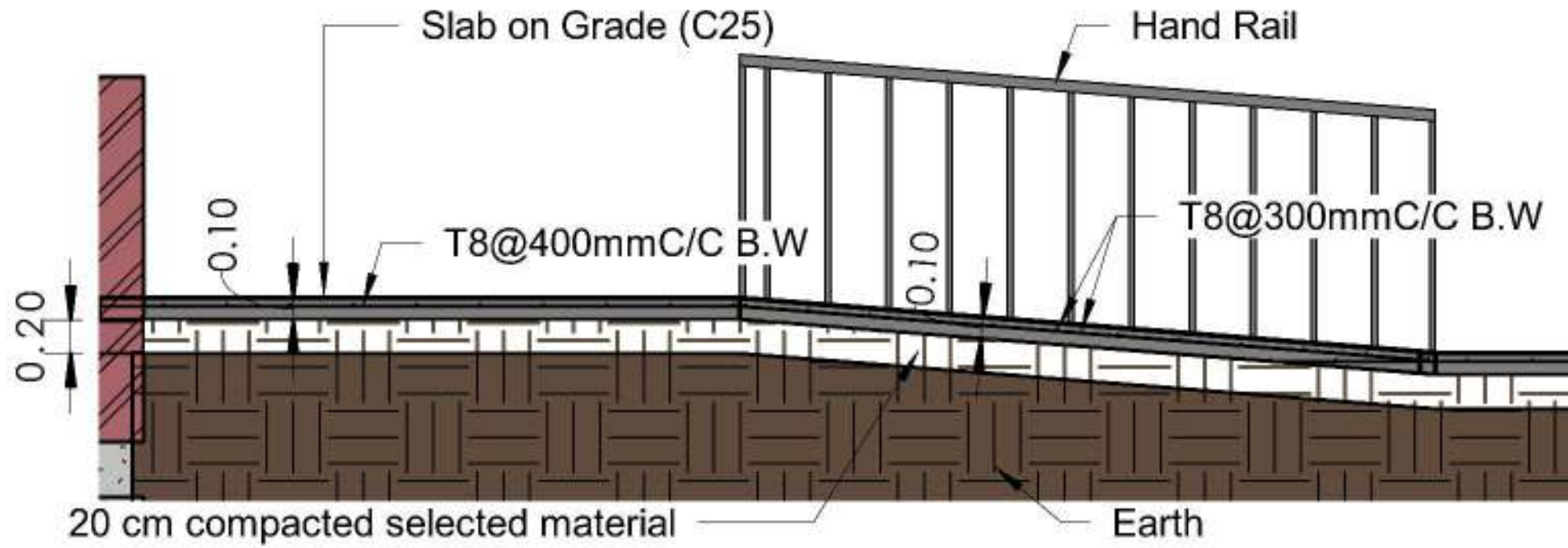
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

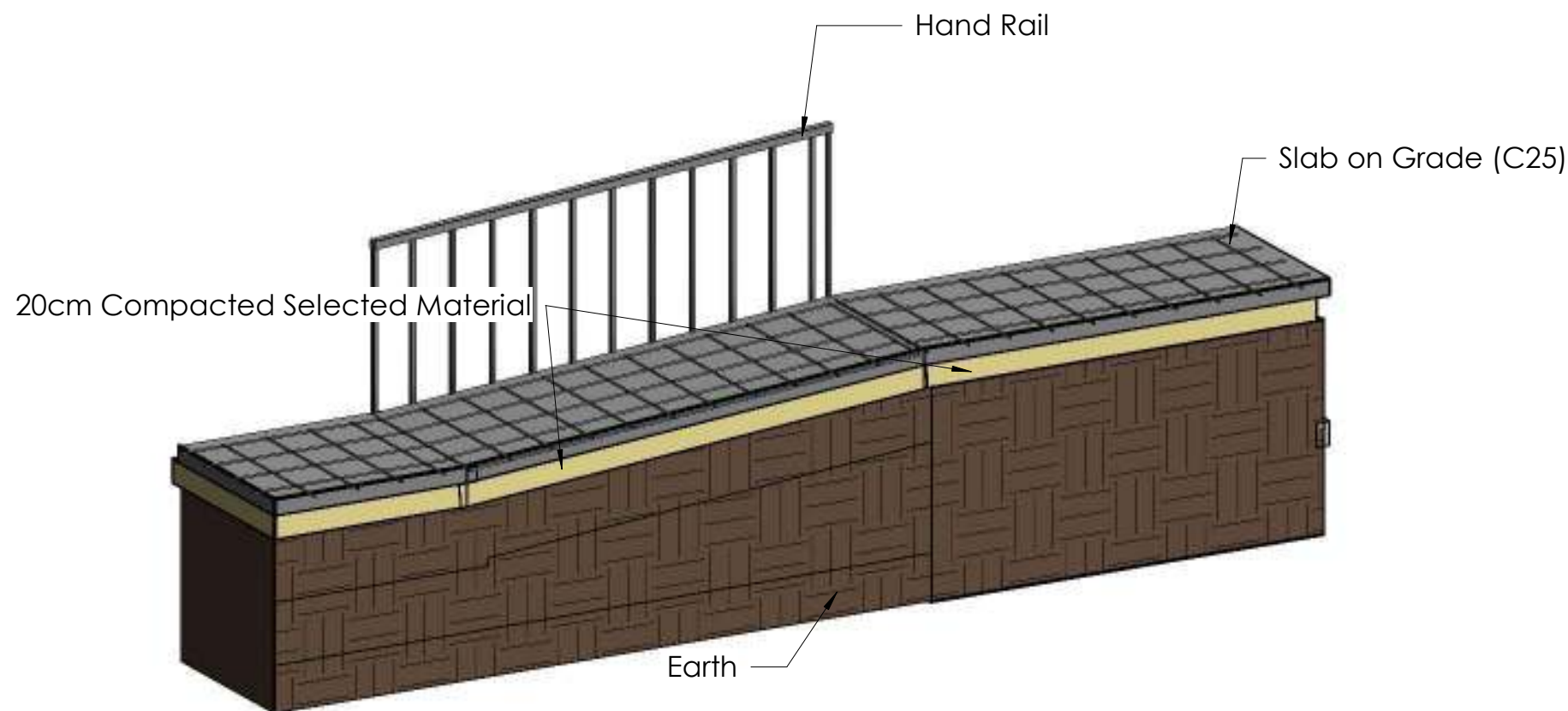
DRAWING TITLE:  
 SECTIONS

DATE: January 2022

|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| A_10   | 1 : 50 |  |



Ramp Section 1:20



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

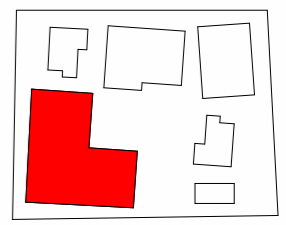
DATE: January 2022

INDEX: SCALE:

A\_11







**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)

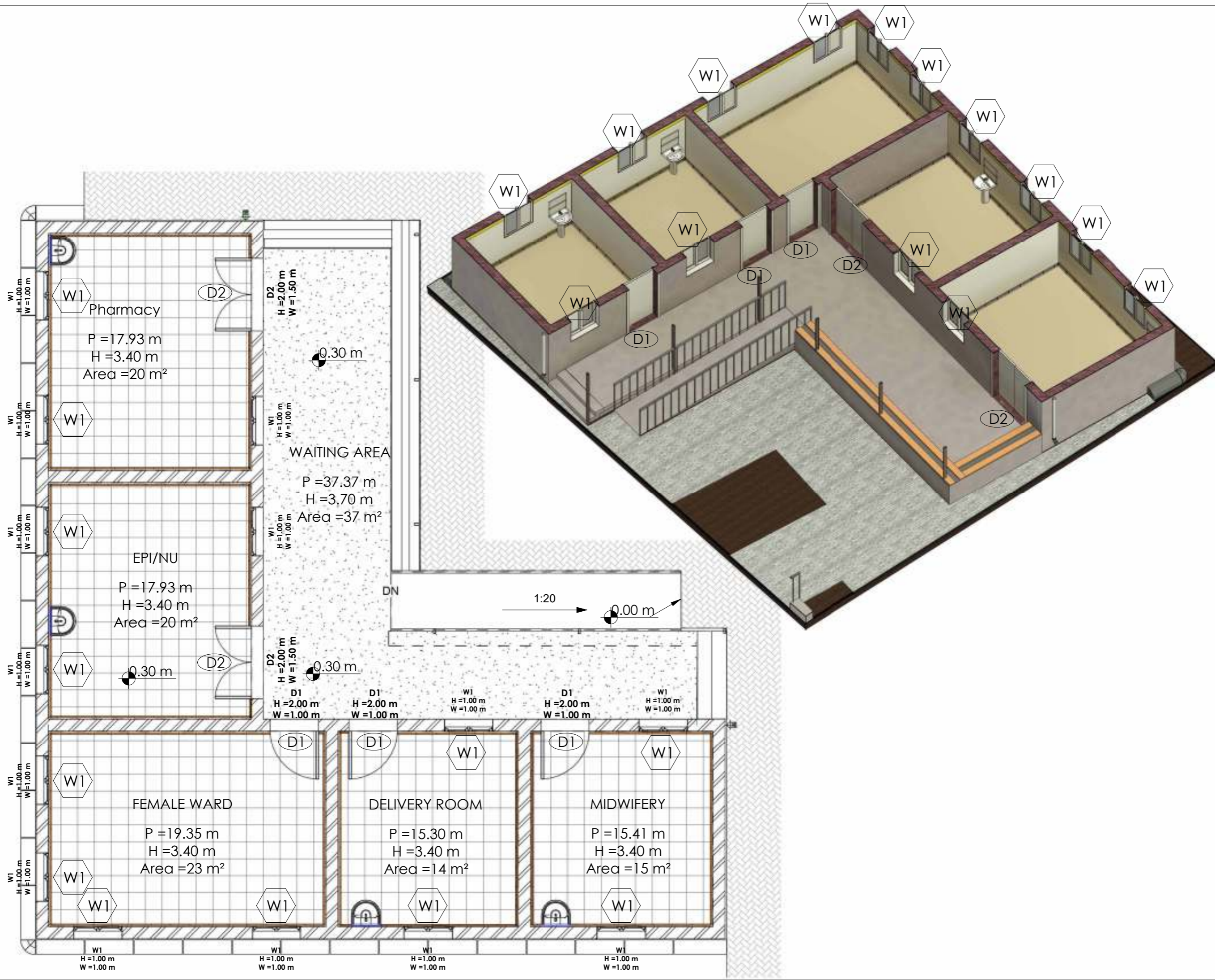
LOCATION:  
SOUTH DARFUR NORTHERN NYALA

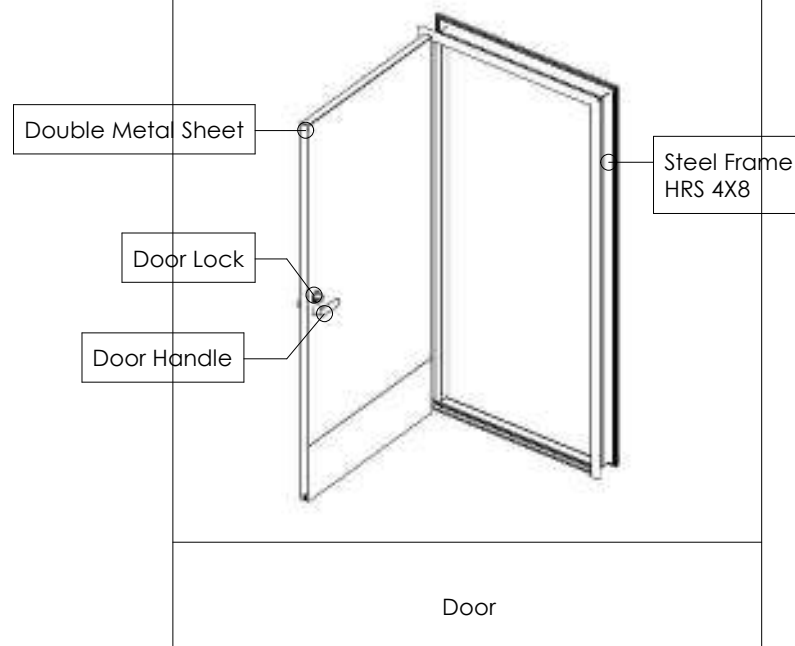
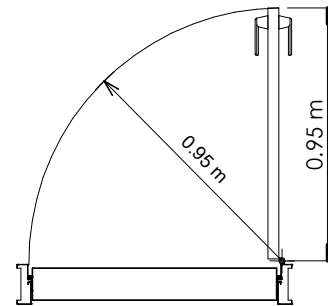
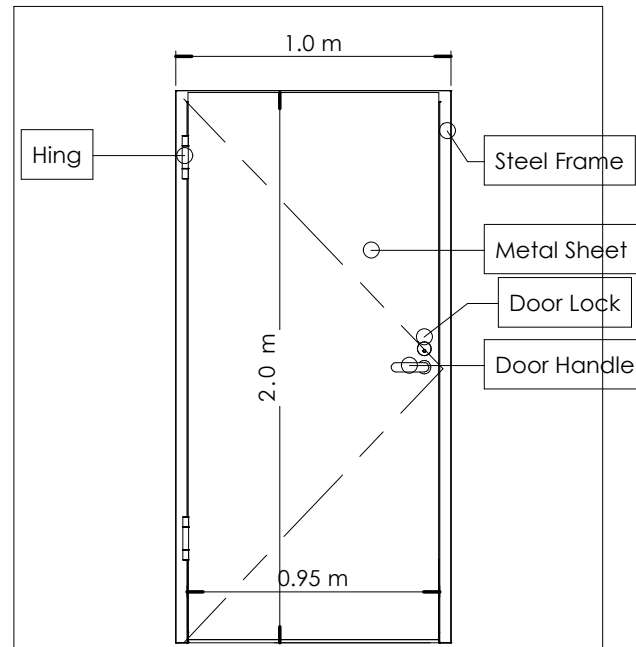
ARCHITECTURAL ENGINEER:  
ENG. IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
GROUND FLOOR PLAN Doors & Windows

DATE: January 2022

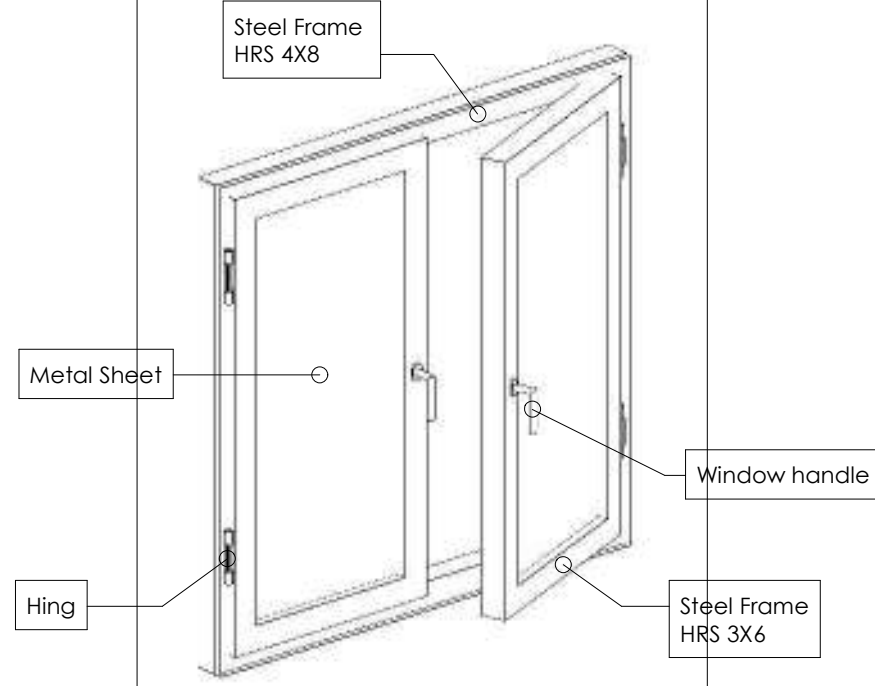
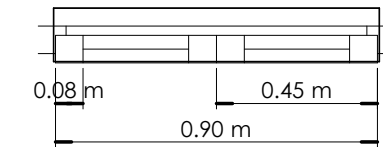
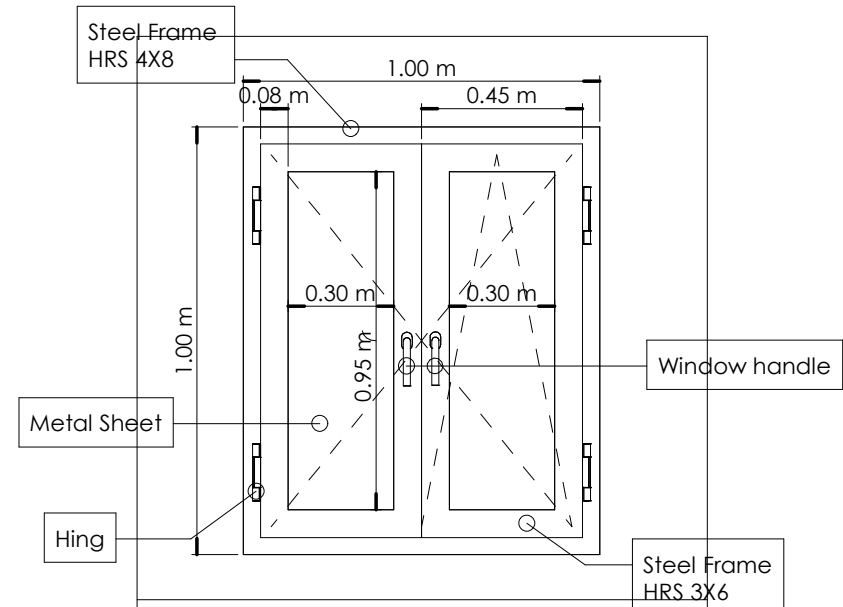
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|----------------|------------------|--|
| INDEX:<br>A_12 | SCALE:<br>1 : 70 |  |
|----------------|------------------|--|





**DOOR Details**

1 : 20



**WINDOWS Details**

1 : 15



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



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



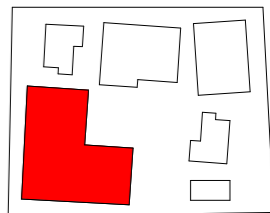


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TEL: +249925451234  
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EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

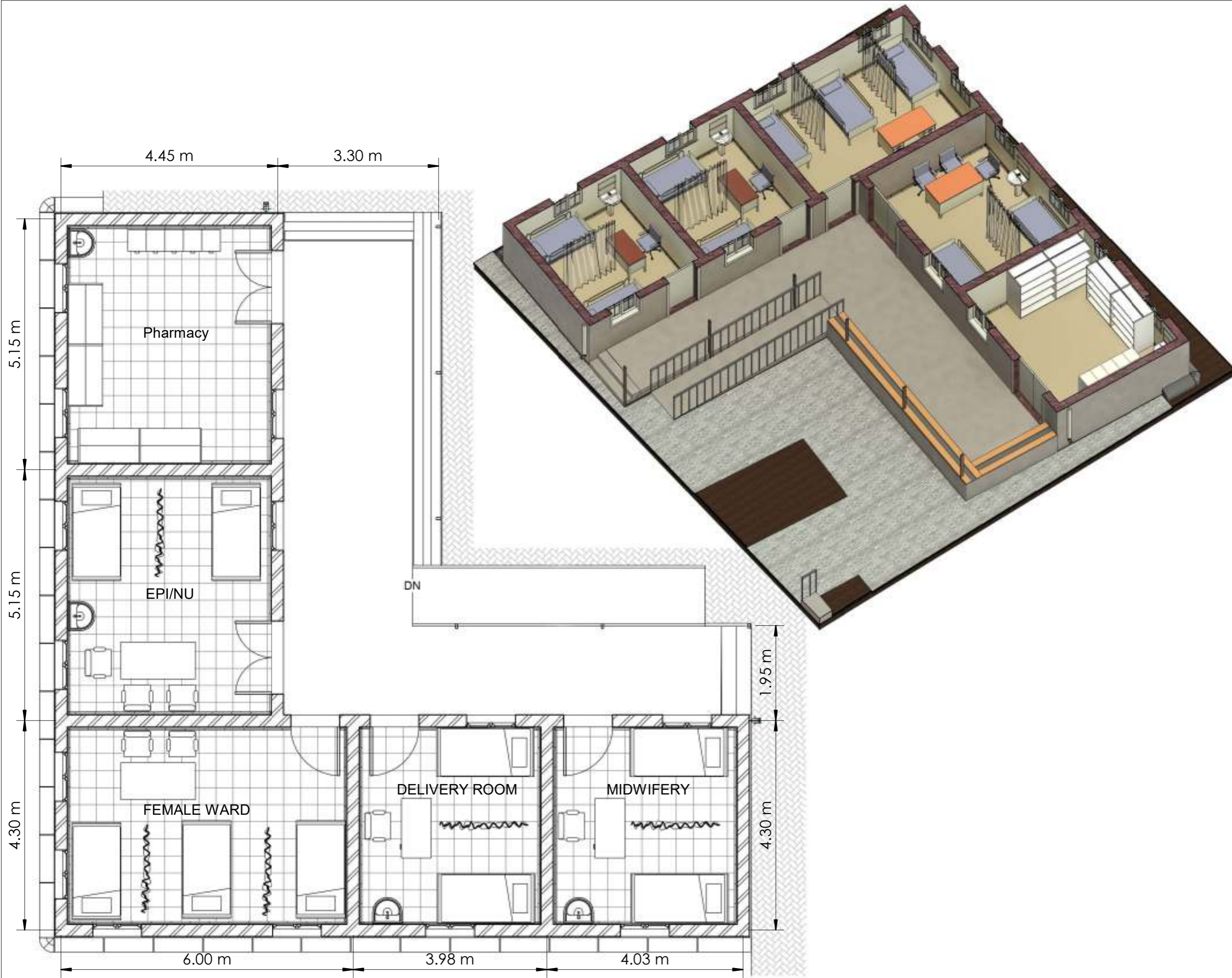
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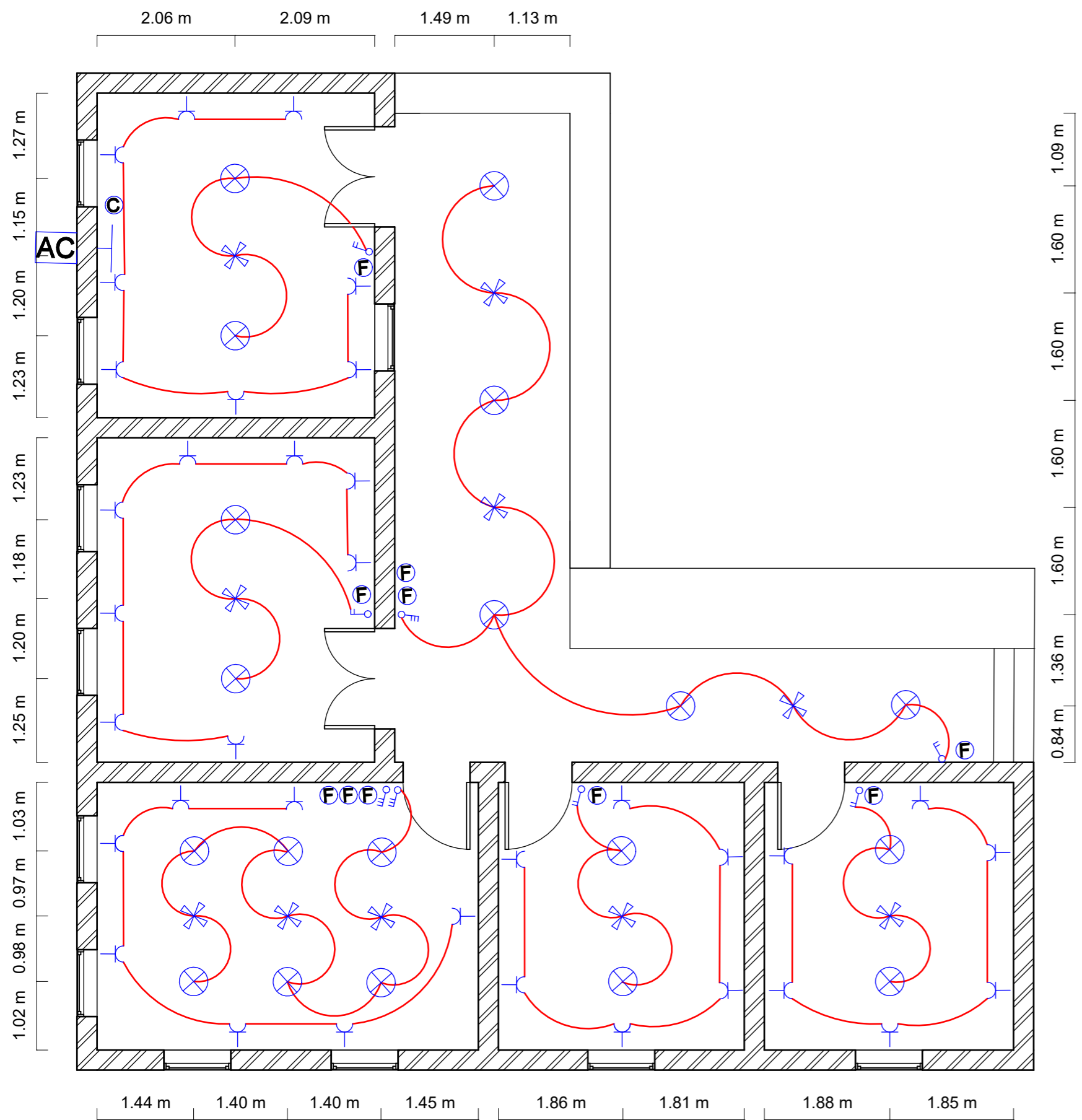
GROUND FLOOR PLAN FURNITURE

DATE: January 2022

INDEX: A\_14

SCALE: 1 : 70





**1** BLOCK A  
1 : 70

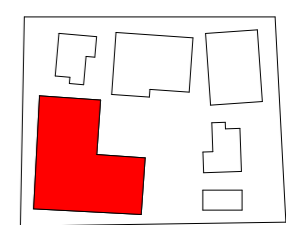
## DESCRIPTION

|  |                           |
|--|---------------------------|
|  | 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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13 Project St. no 33 Amarat, House no 25  
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AL-Amarat Mohamed Najeeb Street, Khartoum  
TEL: +249925451234  
+249115418666  
EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

LOCATION:  
SOUTH DARFUR NORTHERN NYALA

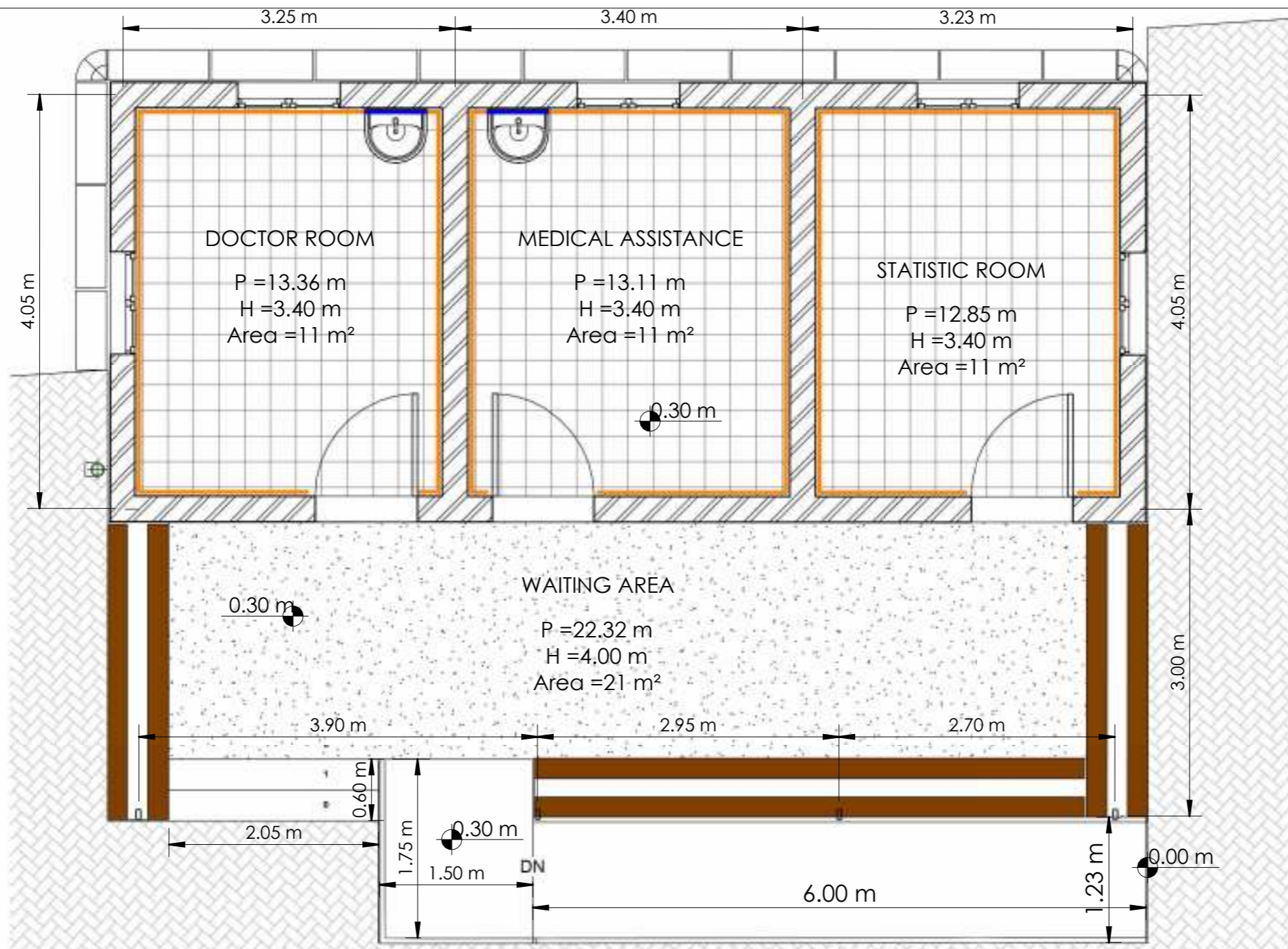
ELECTRICAL ENGINEER:  
ENG. MOHAMMED SALAH ALAMIR

CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
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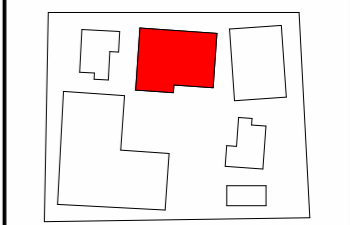
DATE: JANUARY 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>A_15 | SCALE:<br>1 : 70 |  |
|----------------|------------------|--|



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 EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



**Legend**

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

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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

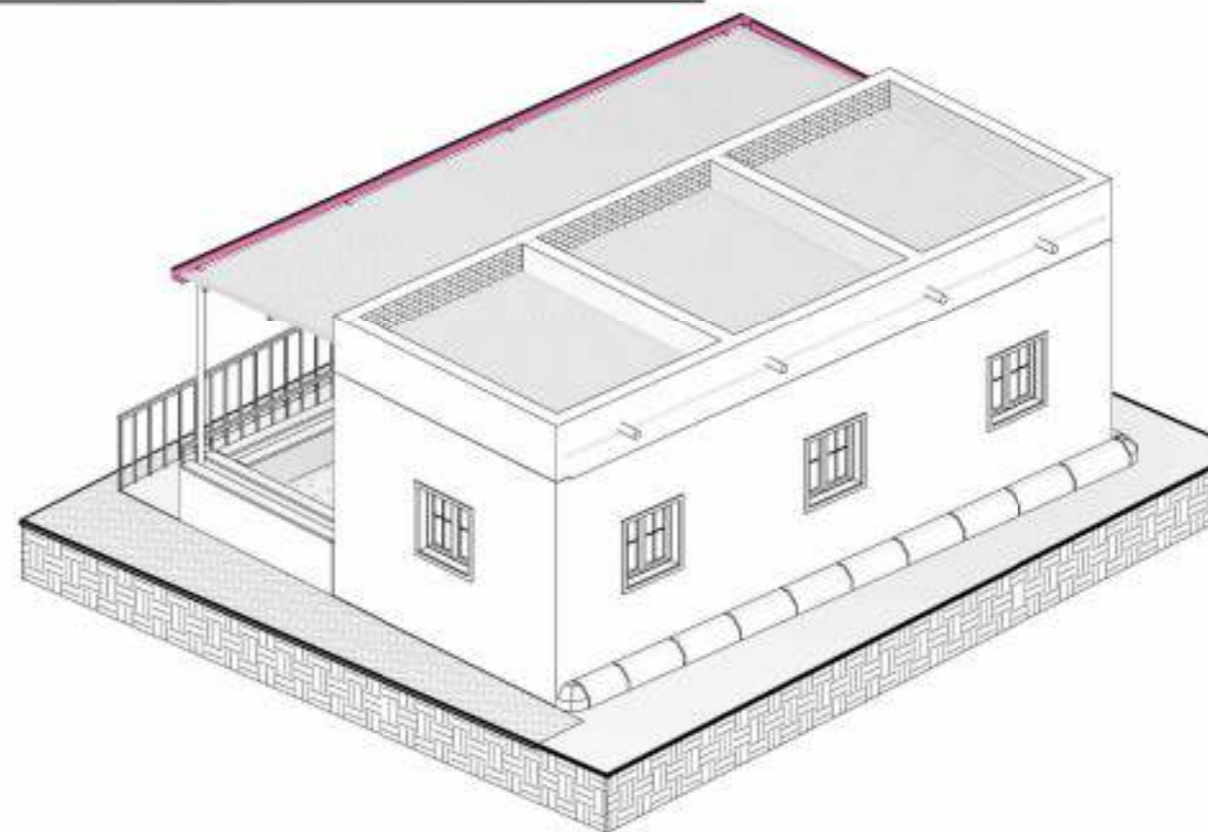
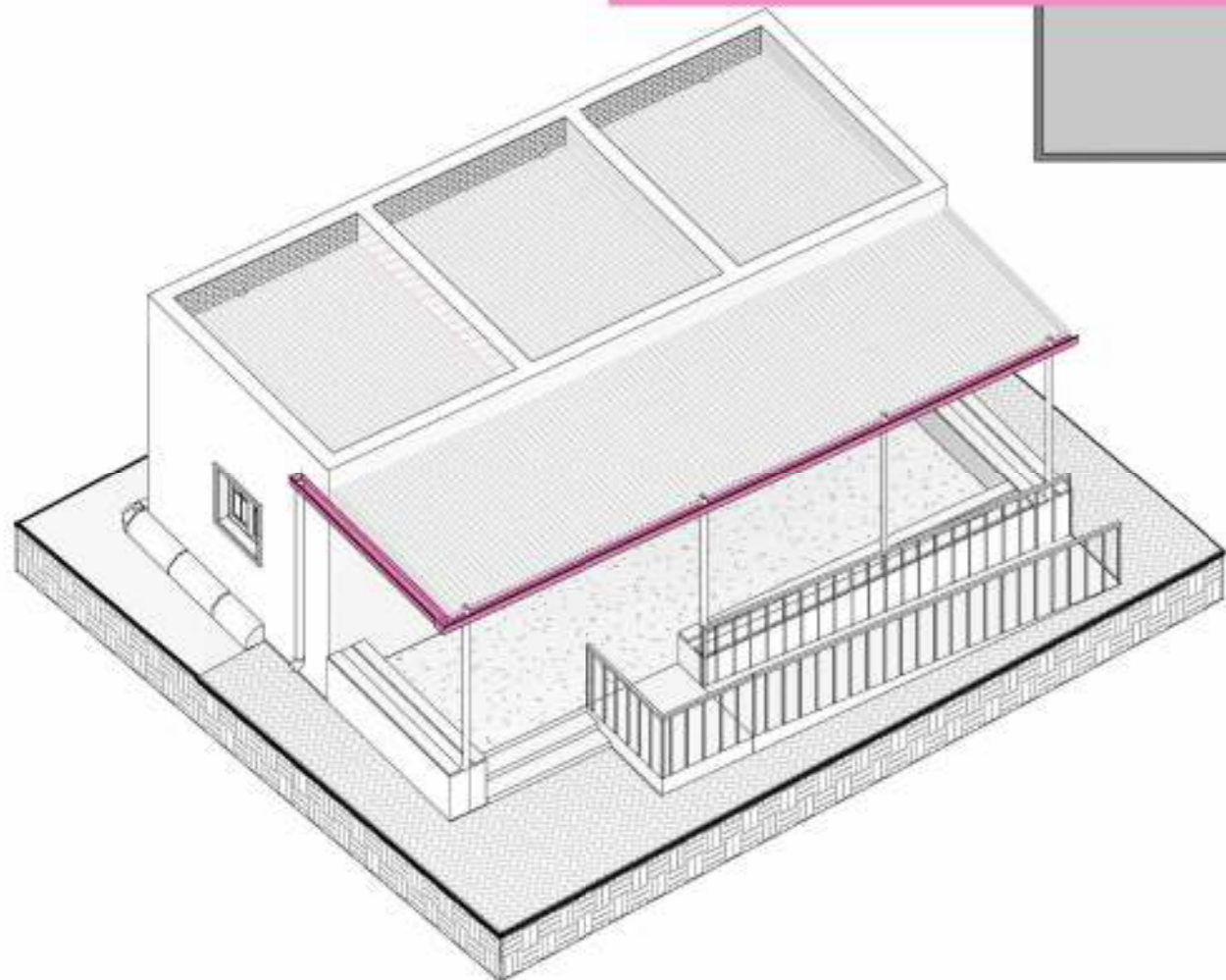
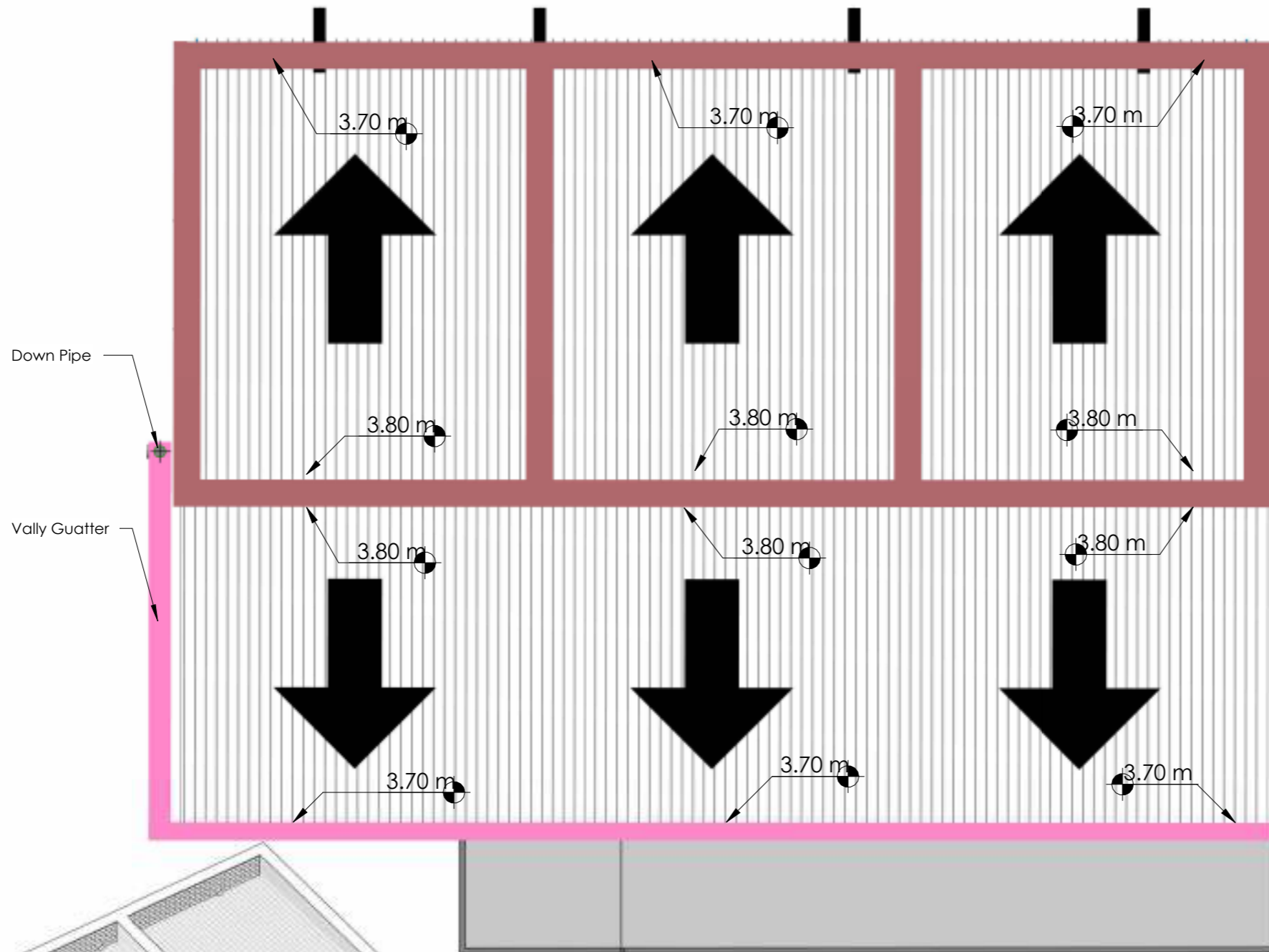
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

DRAWING TITLE:  
 GROUND FLOOR PLAN

DATE: January 2022  
 INDEX: B\_01      SCALE: 1 : 50



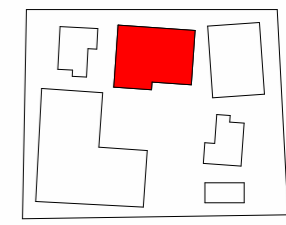


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AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234  
 +249115418666

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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

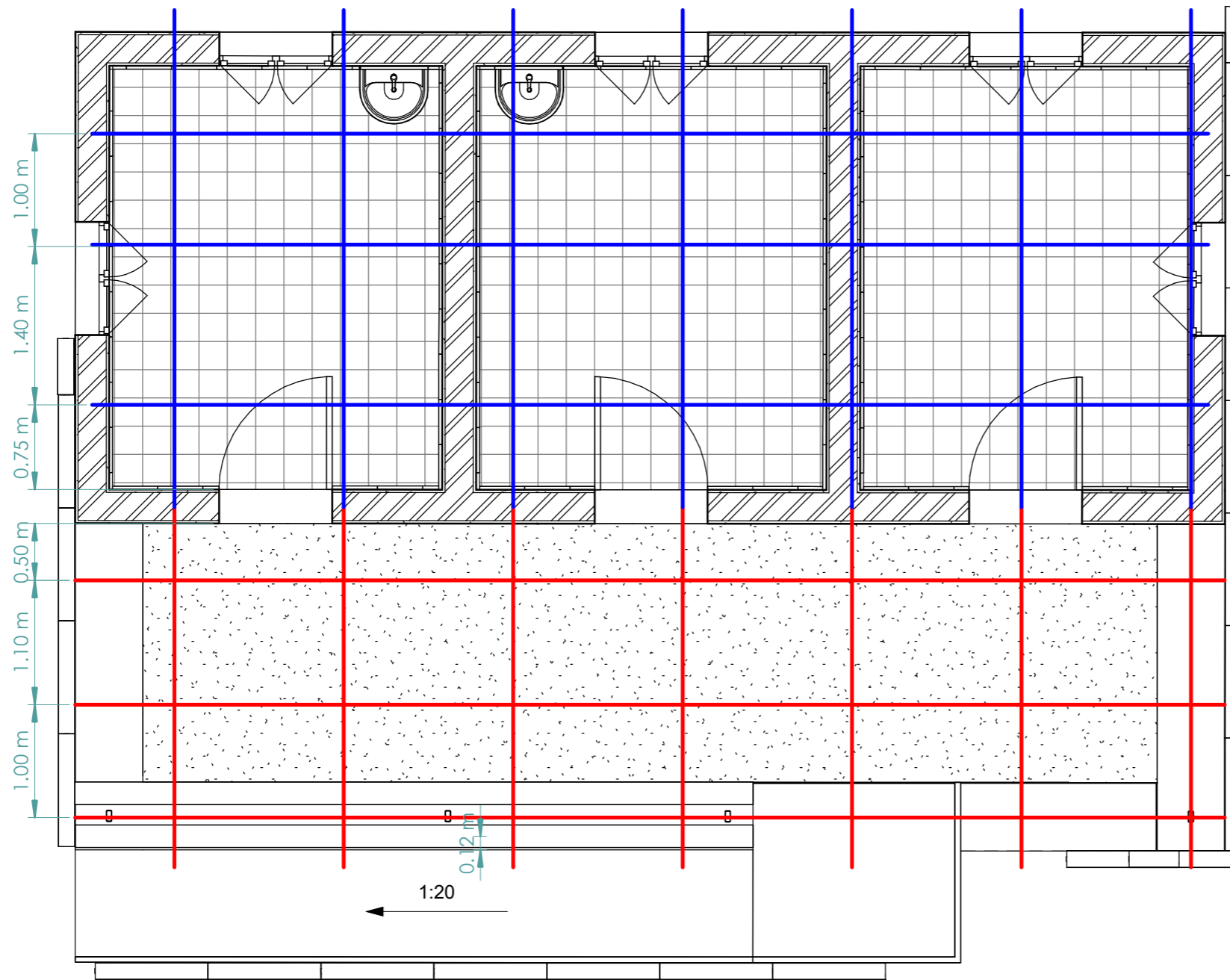
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

DRAWING TITLE:  
 ROOF PLAN

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>B_02 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



**1** BLOCK B Roof Structure  
Plan  
1 : 50



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TEL: +24925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

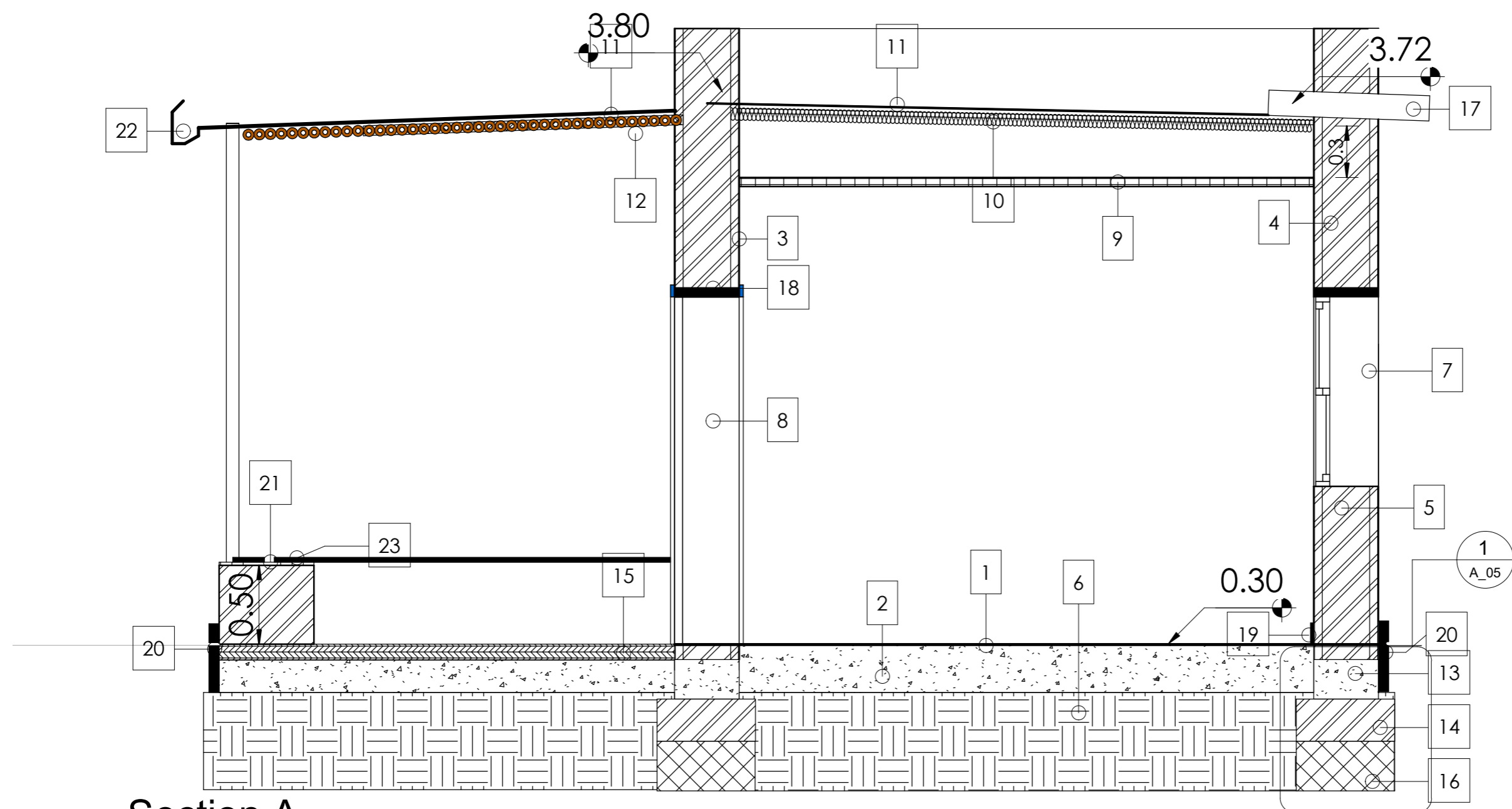
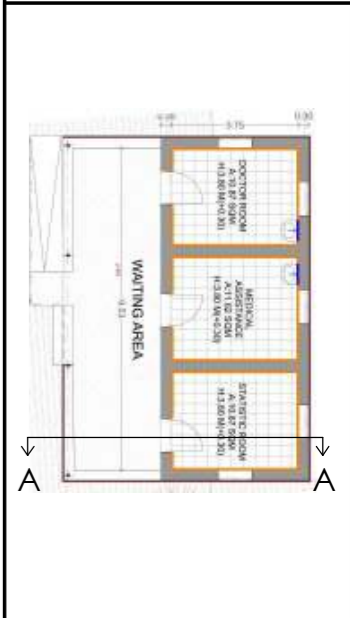
LOCATION:  
SOUTH DARFUR  
Northern Nyala

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

DRAWING TITLE:  
Roof Structure Plan

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>B_03 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



**1** 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 |                   |

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

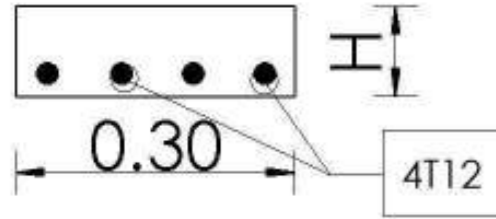
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 Roof Section

DATE: January 2022

INDEX: B\_04      SCALE: 1 : 30

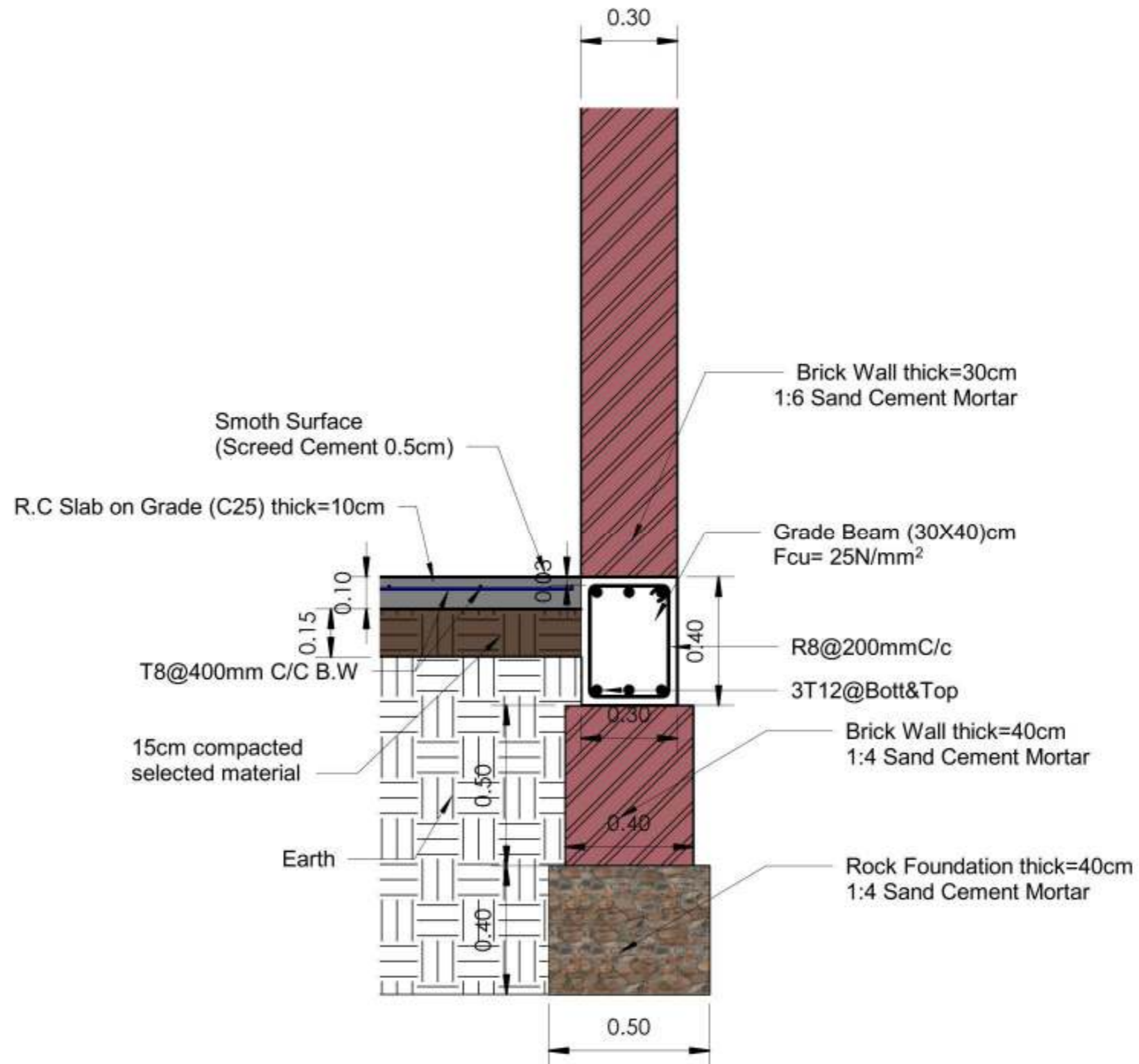


Lintel Beam



H = 10cm for opening width = < 1 m

H = 15cm for opening width > 1 m



1 Callout B  
1 : 15



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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 :

Lintel Beam and Callout

DATE : January 2022

INDEX :

B\_05

SCALE :

1 : 15



| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | woodden bambo sticks |
|        | steel column 10X5 cm |
|        | Woodden Planks       |
|        | Curbstone            |
|        | inter lock           |

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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

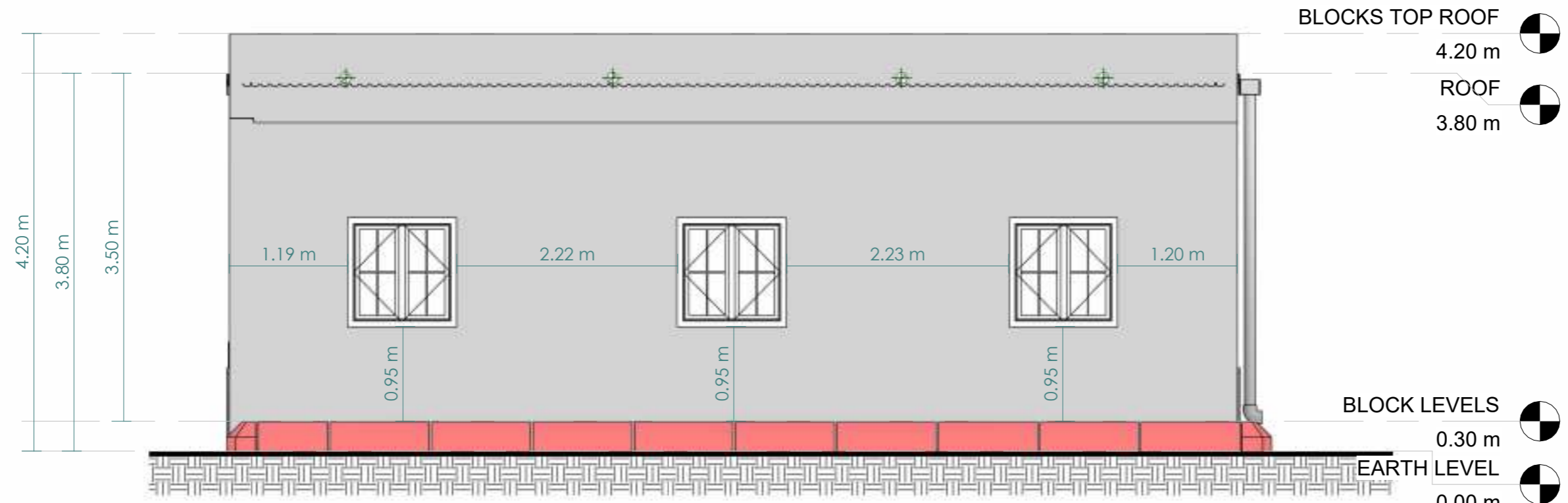
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

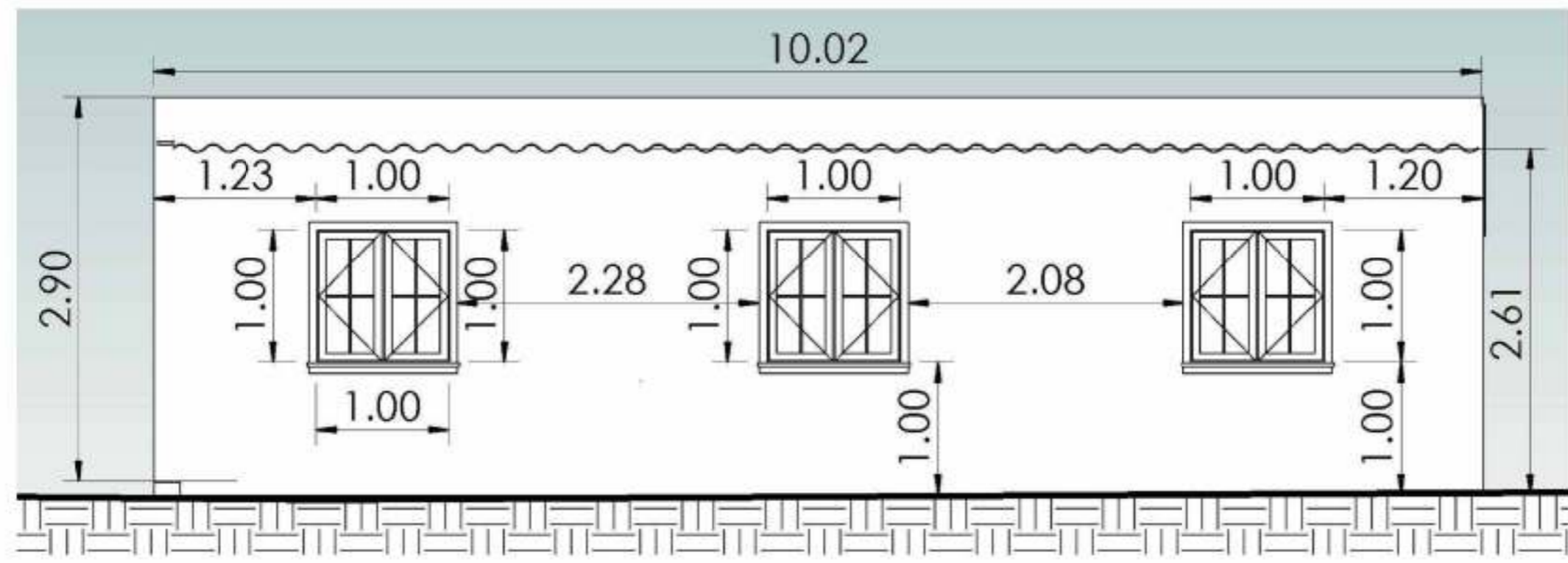
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 ELEVATIONS

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>B_06 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



1 BLOCK B NORTH  
 ELEVATION AFTER  
 1 : 50



North Elevation Before

| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | woodden bambo sticks |
|        | steel column 10X5 cm |
|        | Woodden Planks       |
|        | Curbstone            |
|        | inter lock           |

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

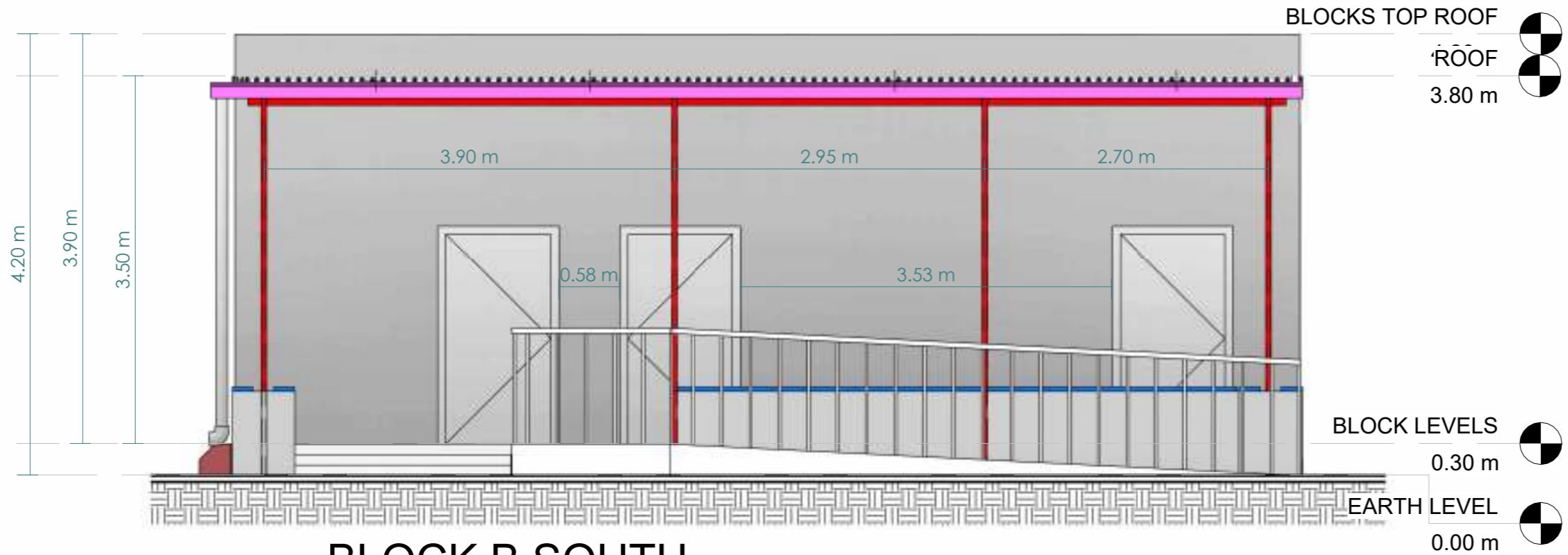
PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

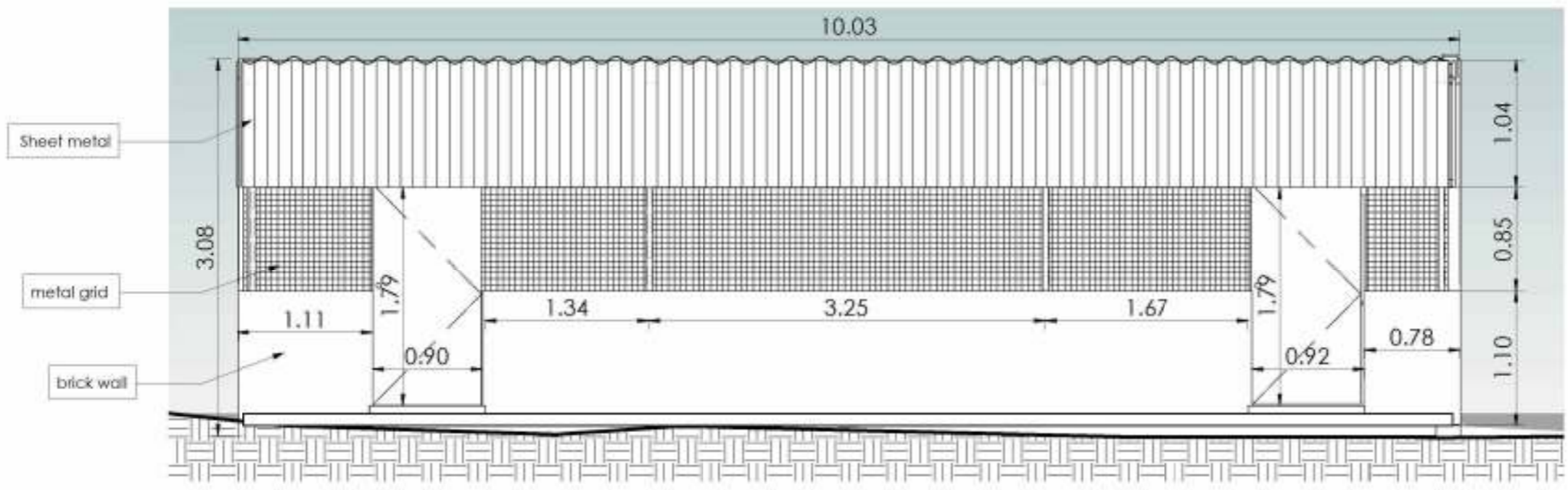
ARCHTECTURAL ENGINEER:  
 ENG. IBRAHIM MOHAMMED IBRAHIM  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 ELEVATIONS

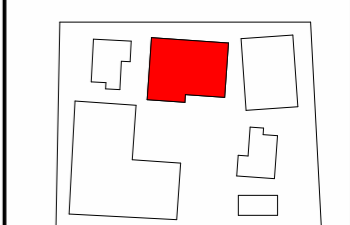
DATE: January 2022  
 INDEX: B\_07      SCALE: 1 : 50



**2** BLOCK B SOUTH ELEVATION AFTER  
 1 : 50



South Elevation Before



| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | woodden bambo sticks |
|        | steel columm 10X5 cm |
|        | Woodden Planks       |
|        | Curbstone            |
|        | inter lock           |

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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

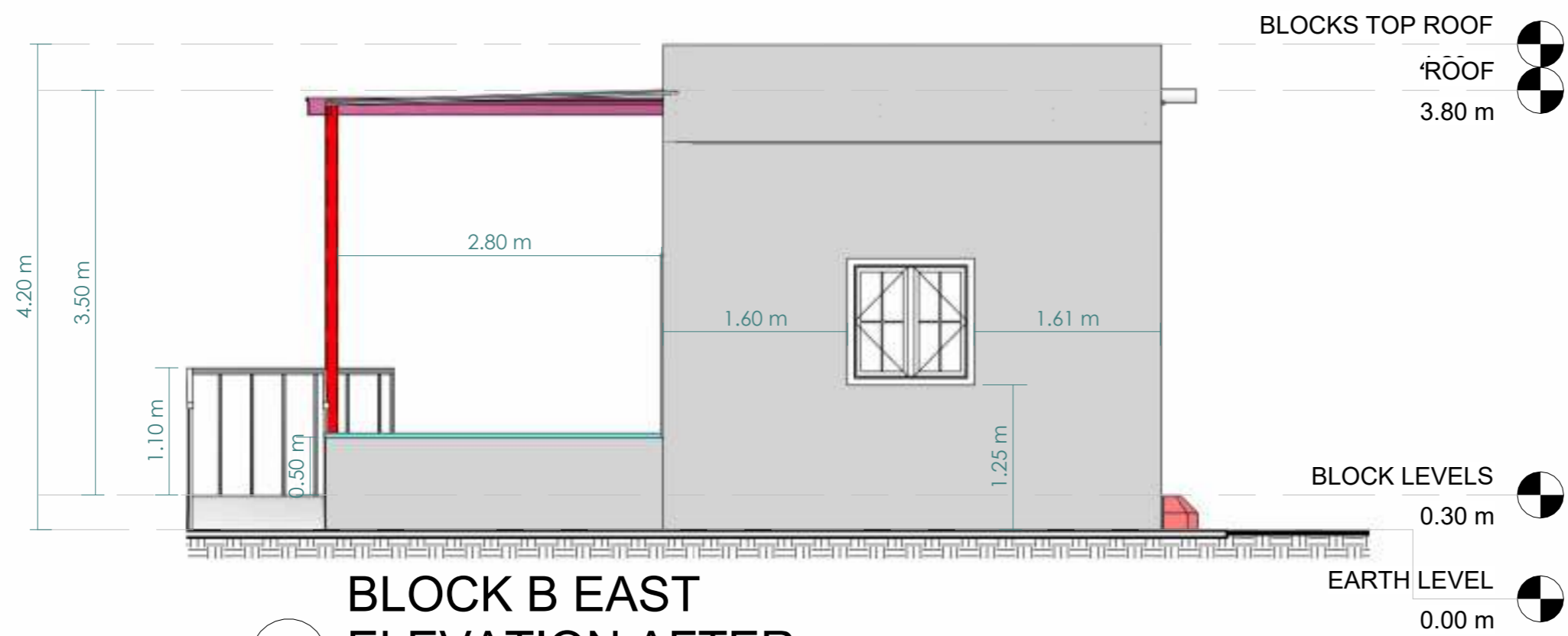
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

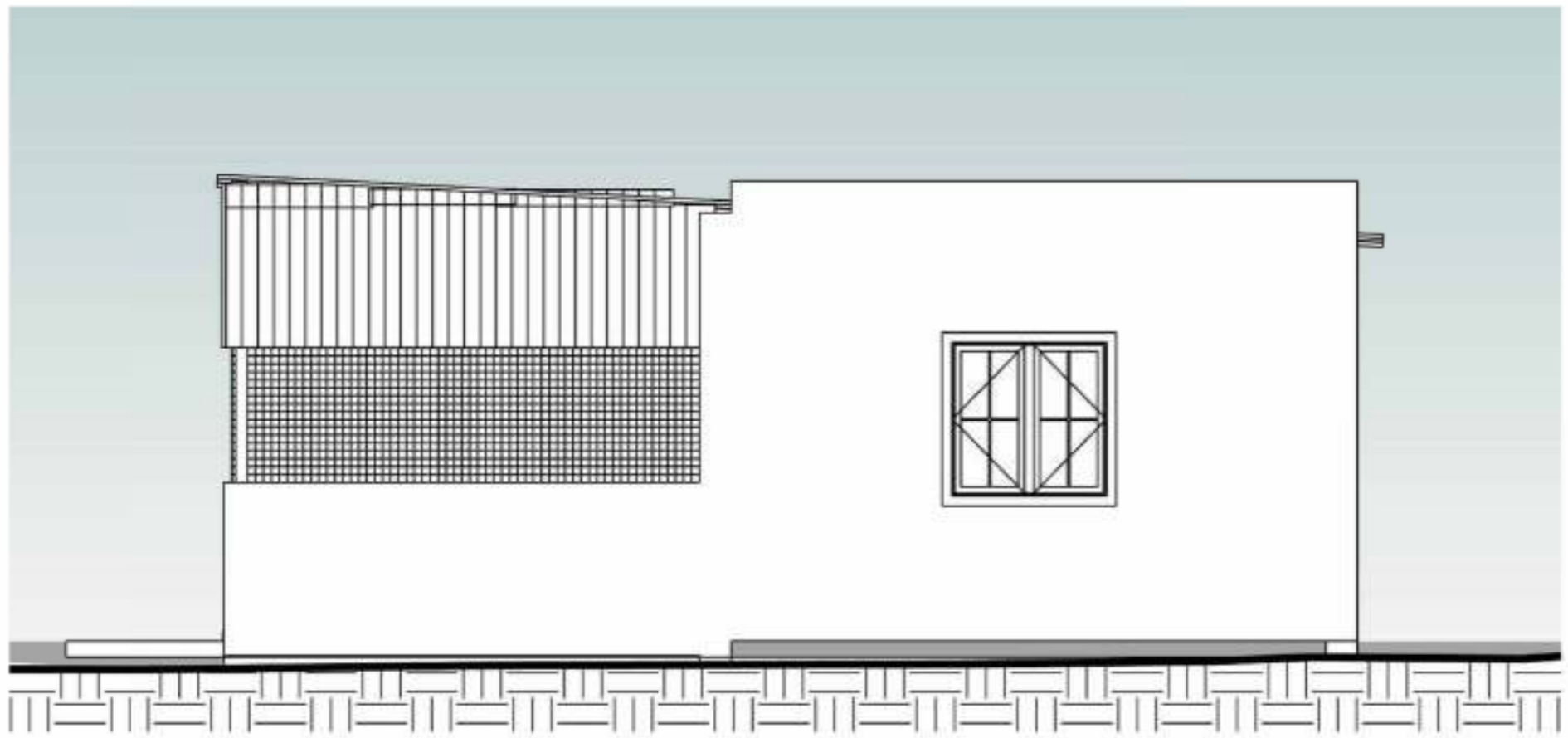
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 ELEVATIONS

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>B_08 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



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



East Elevation Before

| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | woodden bambo sticks |
|        | steel column 10X5 cm |
|        | Woodden Planks       |
|        | Curbstone            |
|        | inter lock           |

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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

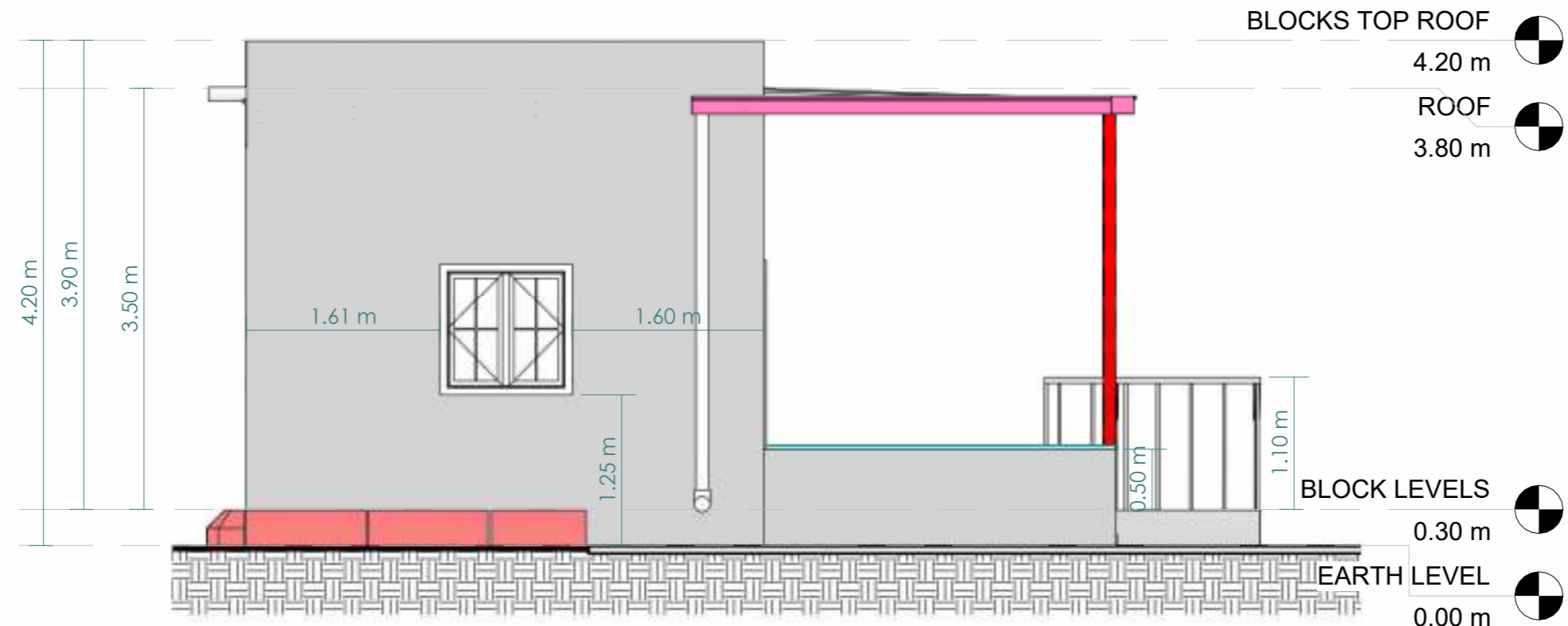
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

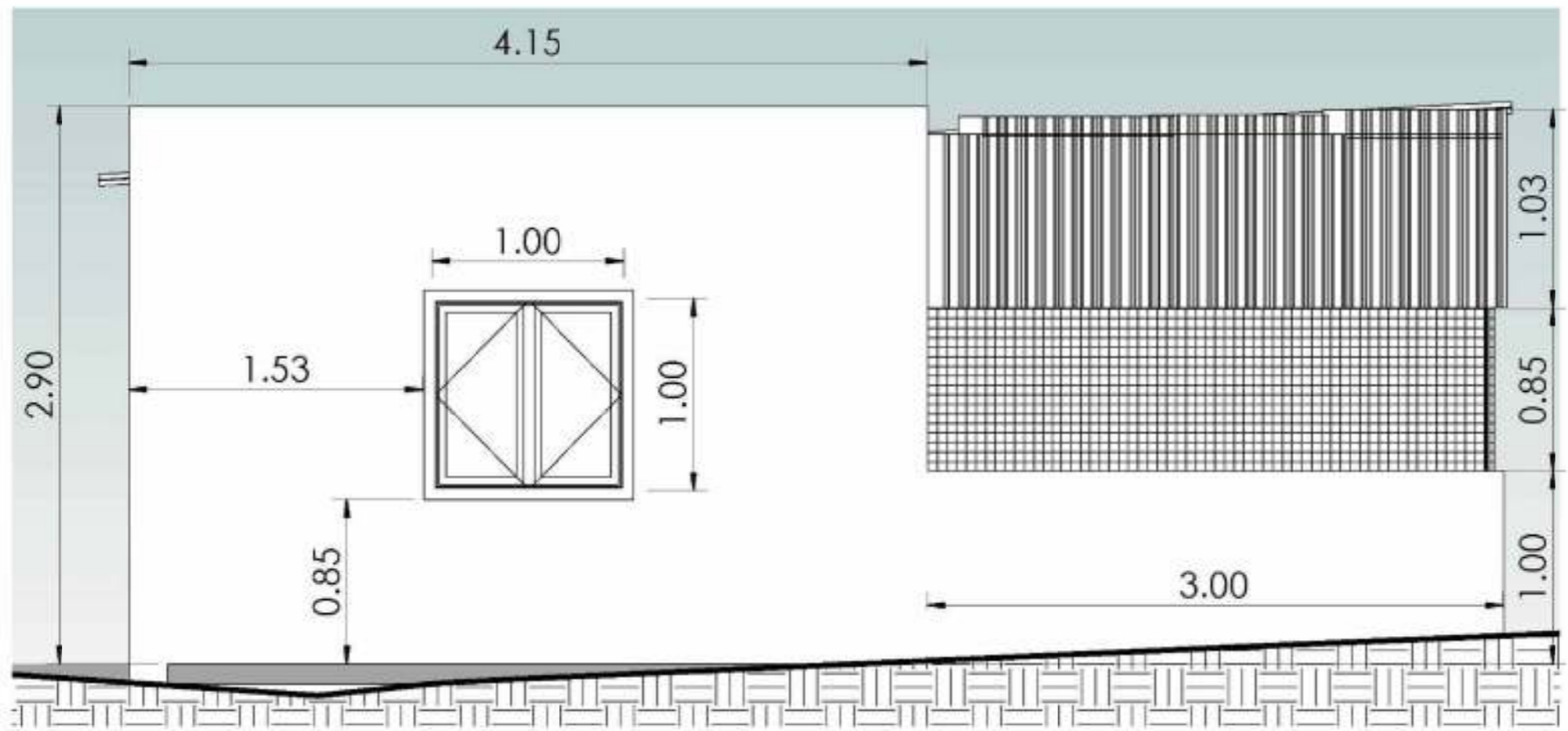
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DATE: January 2022

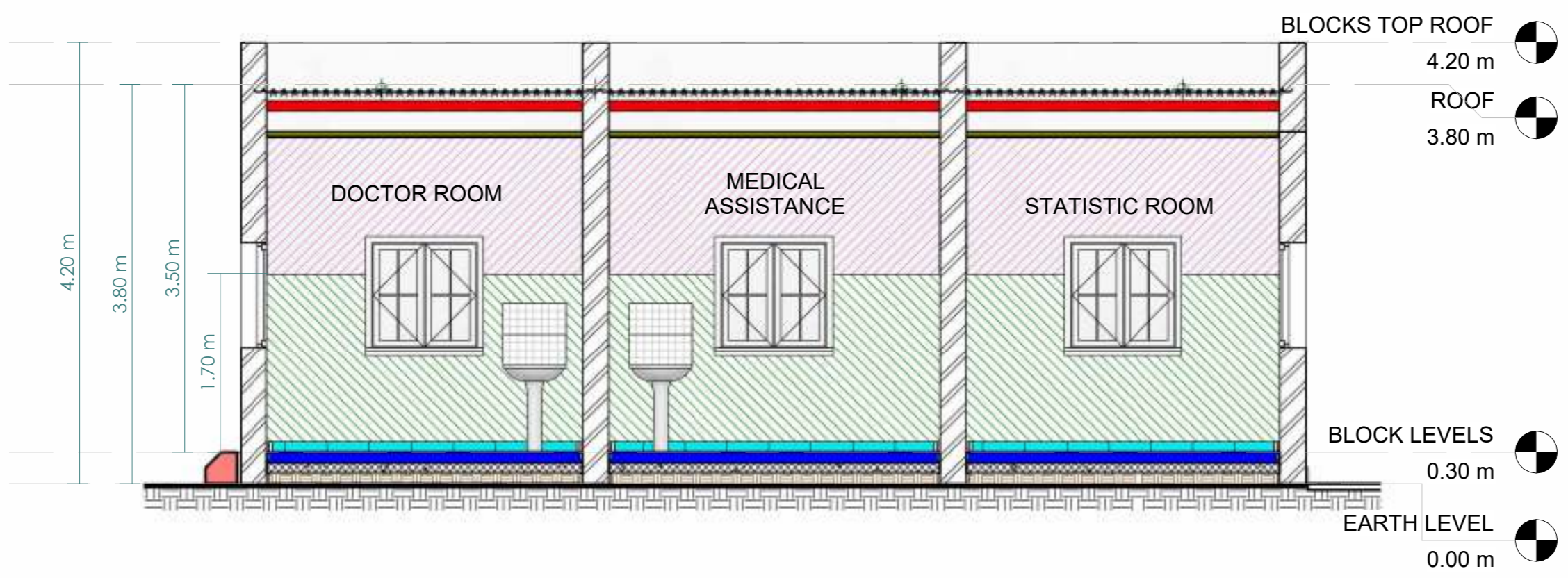
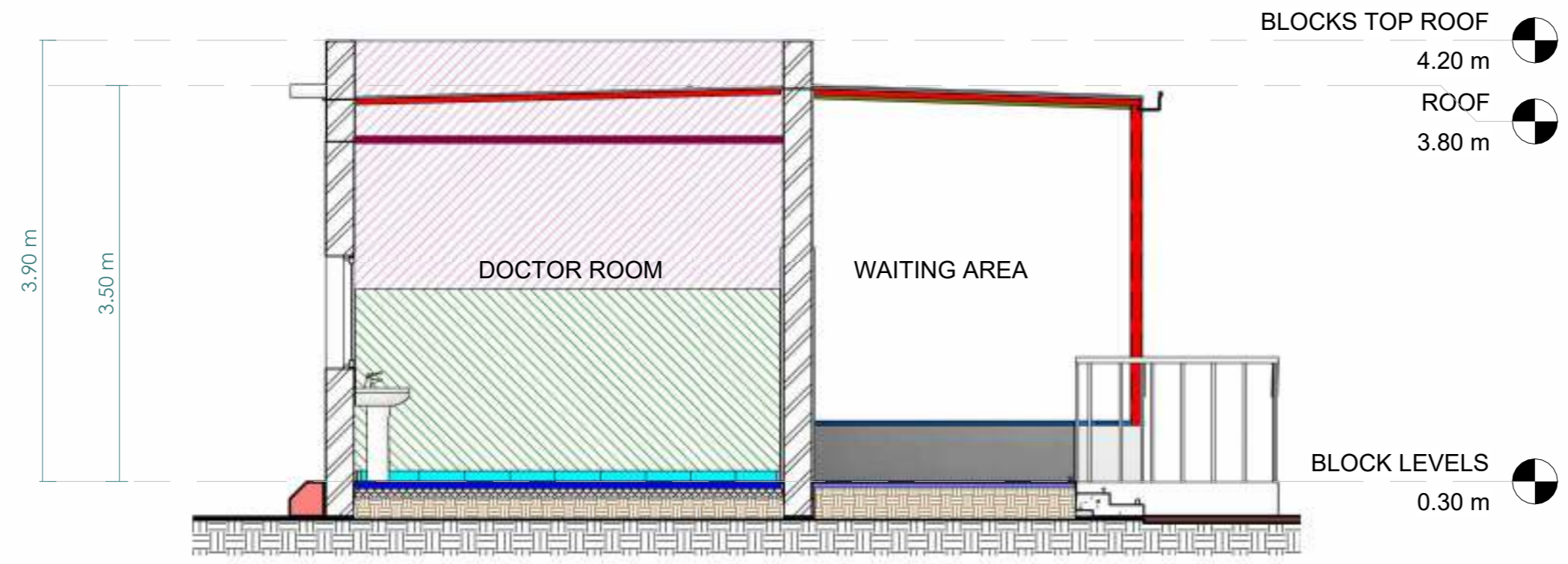
|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| B_09   | 1 : 50 |  |



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



West Elevation Before



| Legend |  |
|--------|--|
|        | Steel column 10X5 cm                               |
|        | False ceiling                                      |
|        | Emulsion paint (internal) from 1.70m up to ceiling |
|        | Glossy oil paint (internal) from floor up to 1.70m |
|        | Wall Tiles 15X15                                   |
|        | Skirting 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

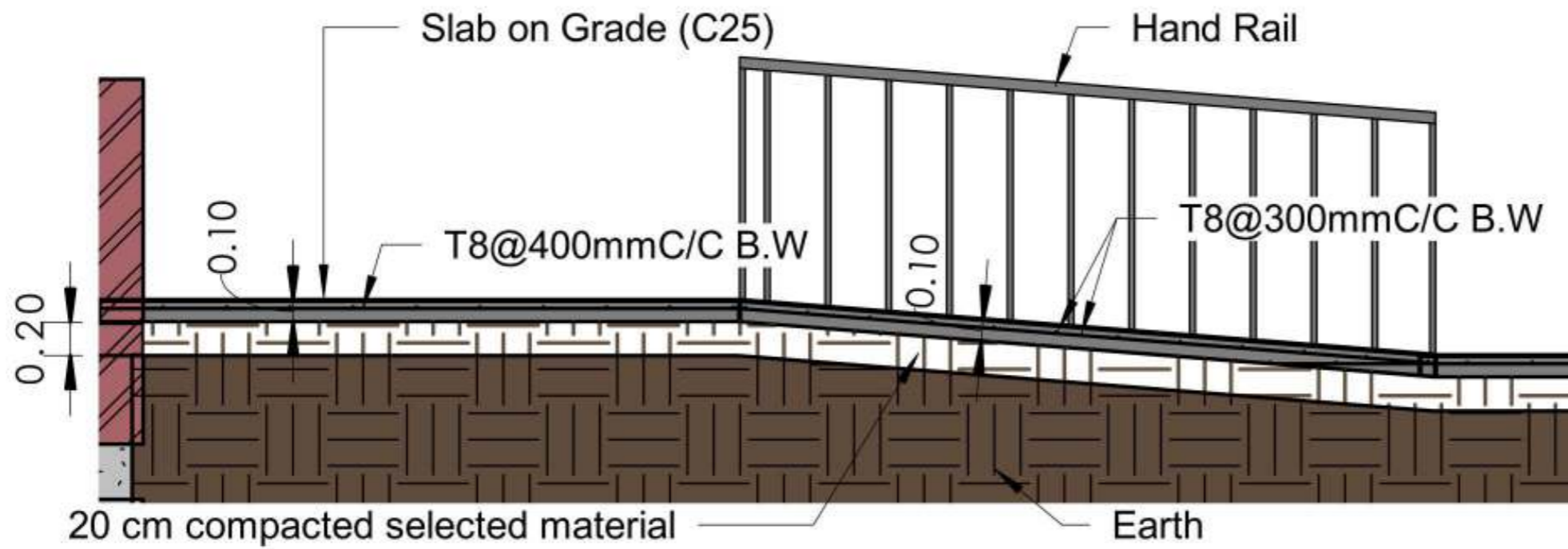
ARCHITECTURAL ENGINEER:  
 ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

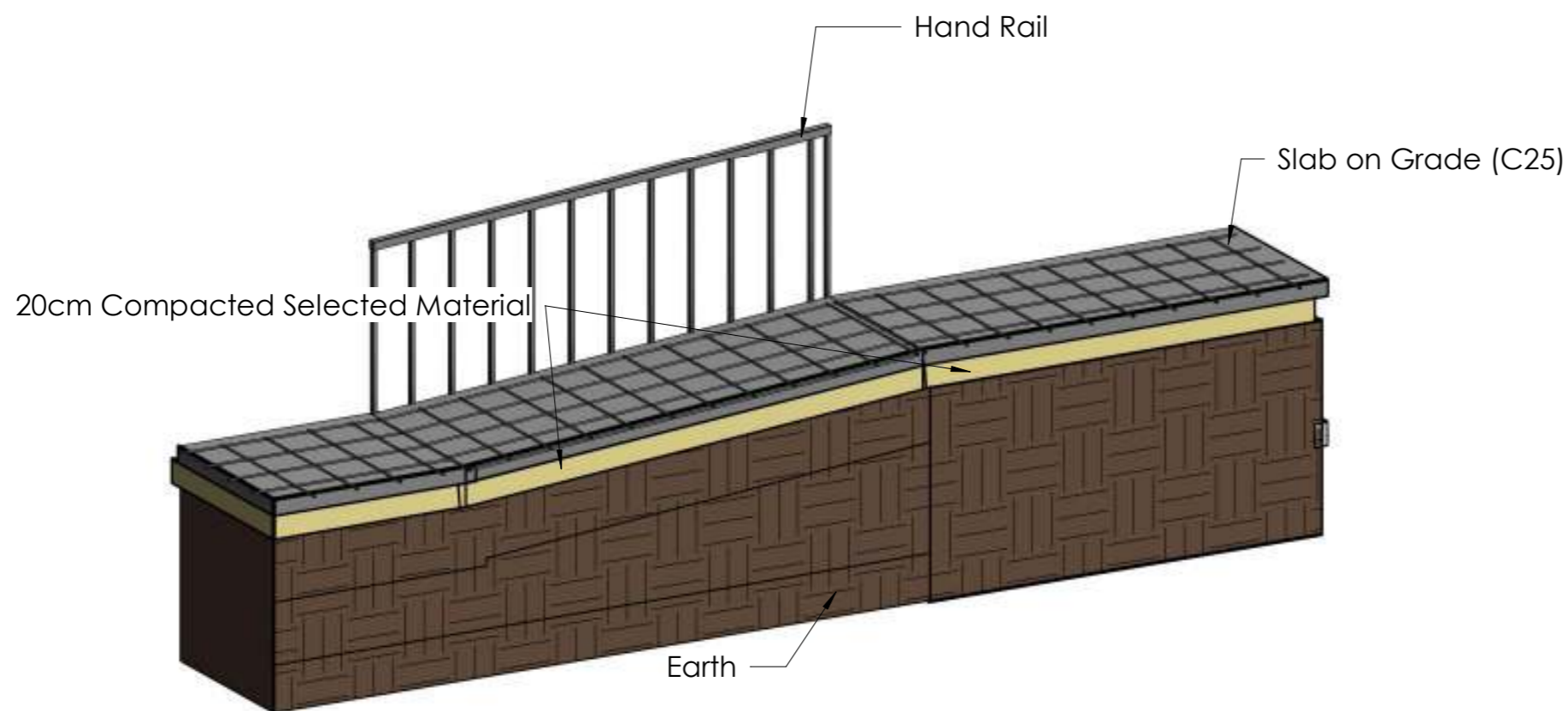
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 SECTIONS

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>B_10 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



Ramp Section 1:20



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

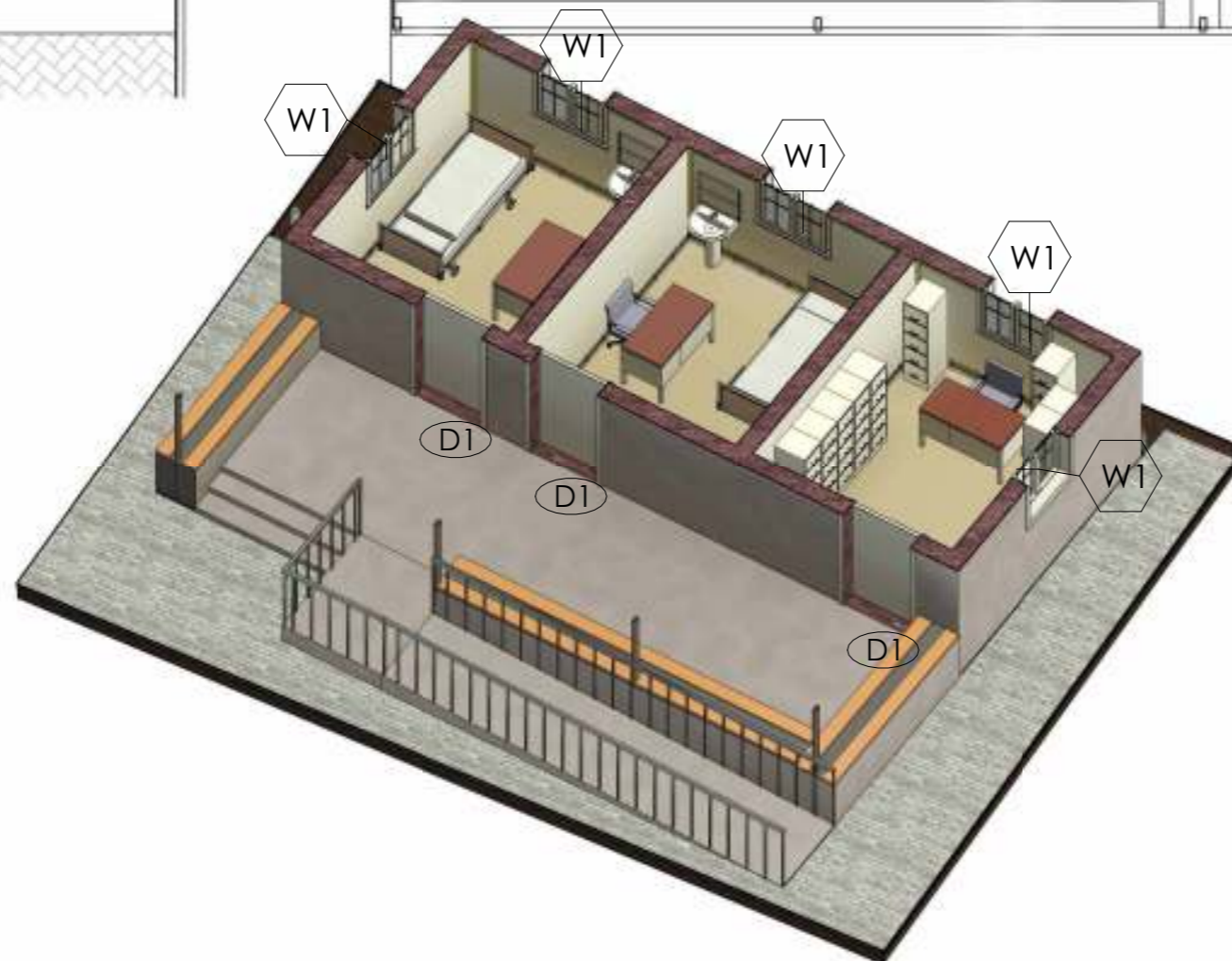
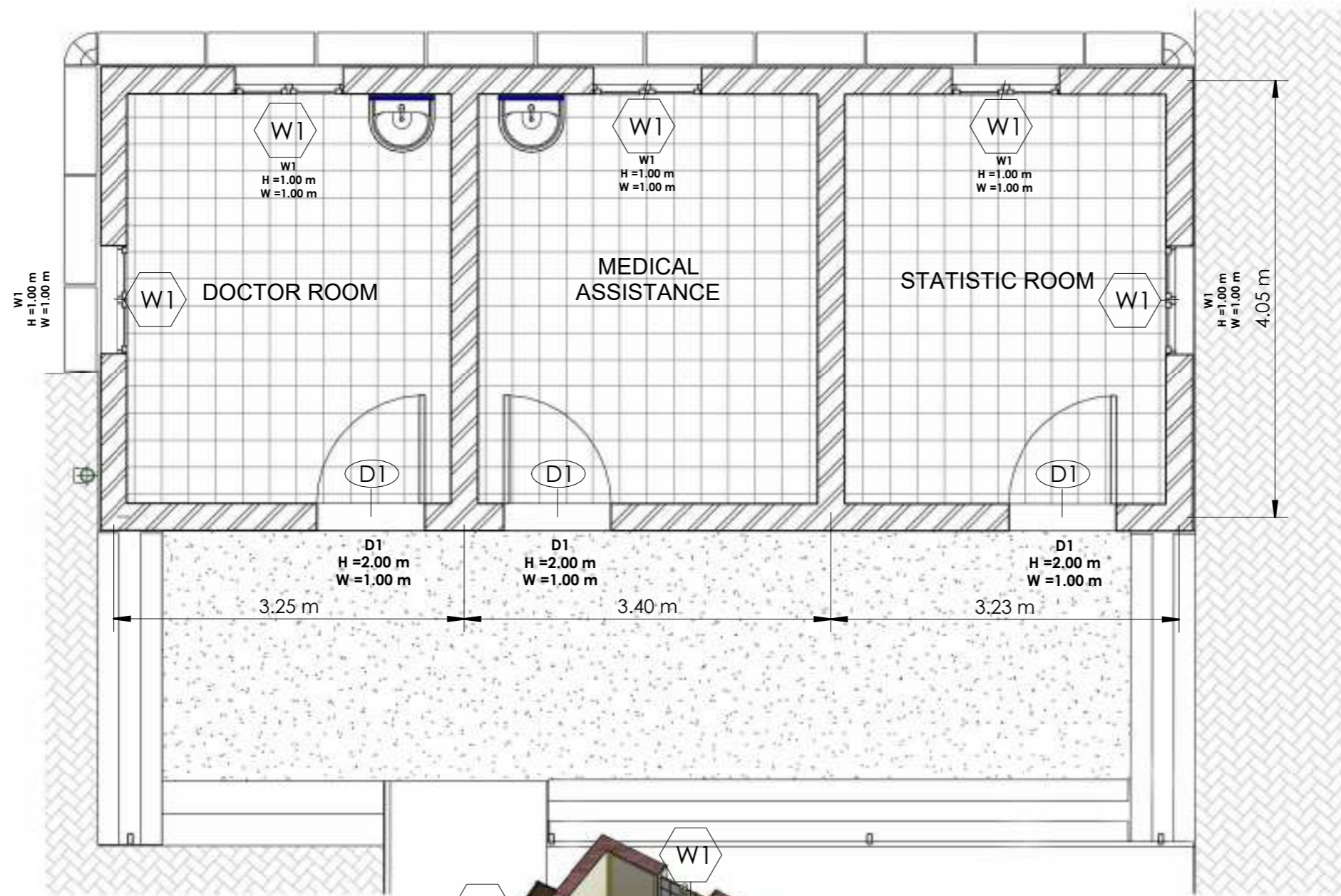
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DATE: January 2022

INDEX:  
 B\_11

SCALE:



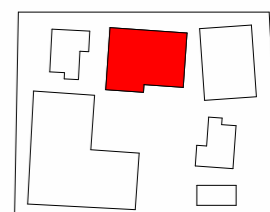


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AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



**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

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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

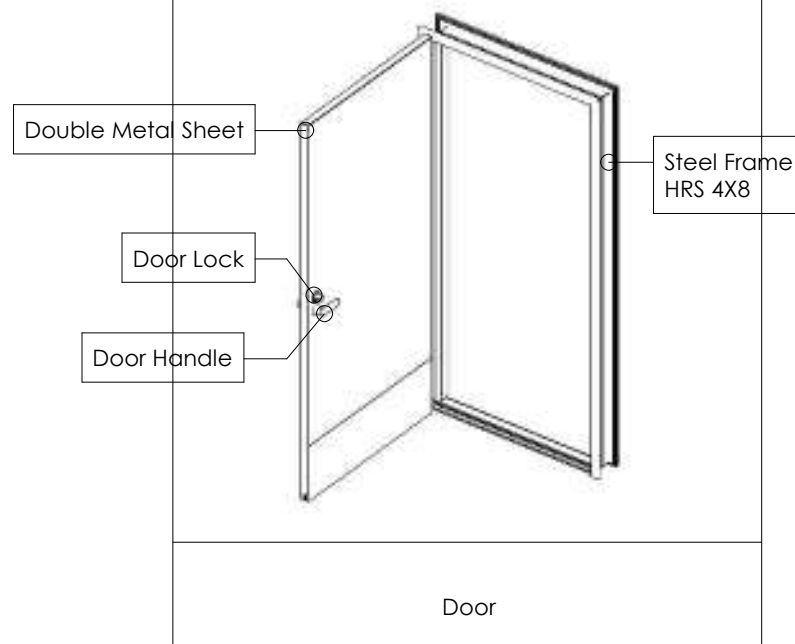
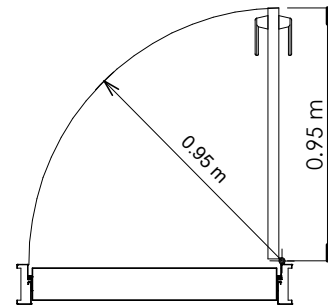
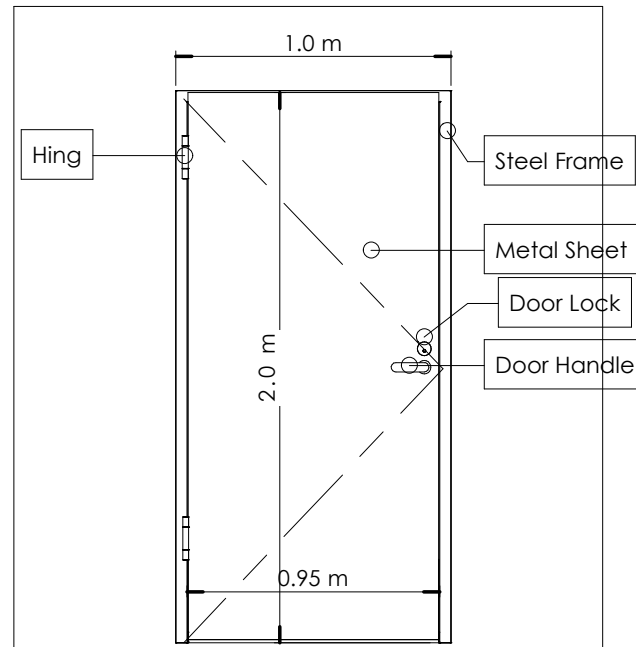
DATE: January 2022

INDEX: B\_12

SCALE: 1 : 50

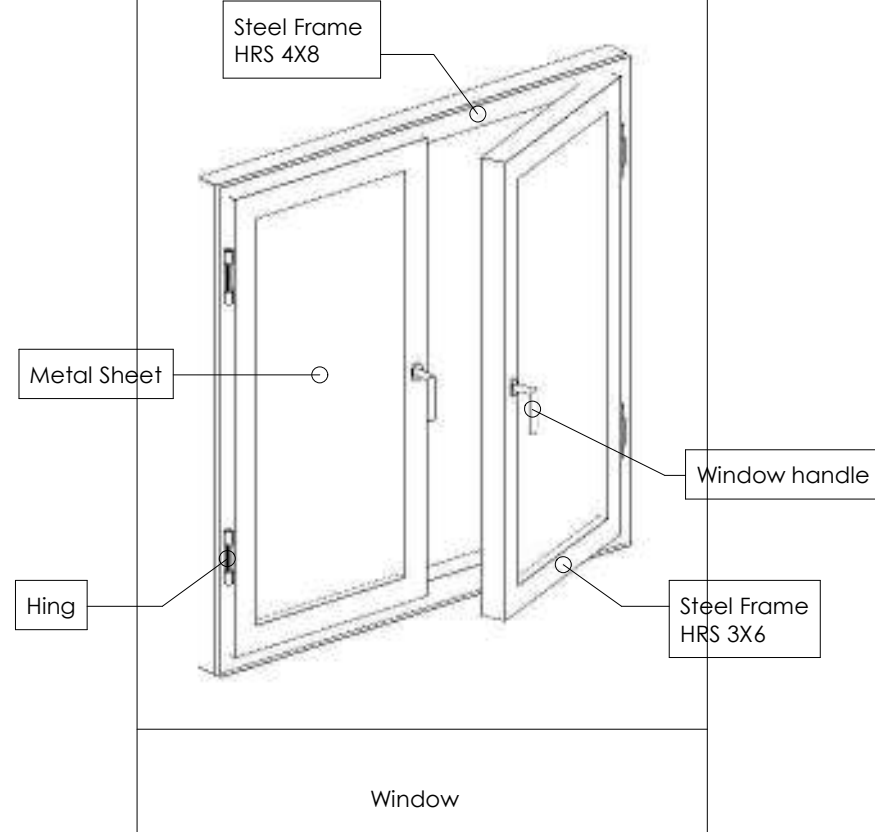
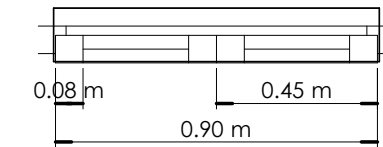
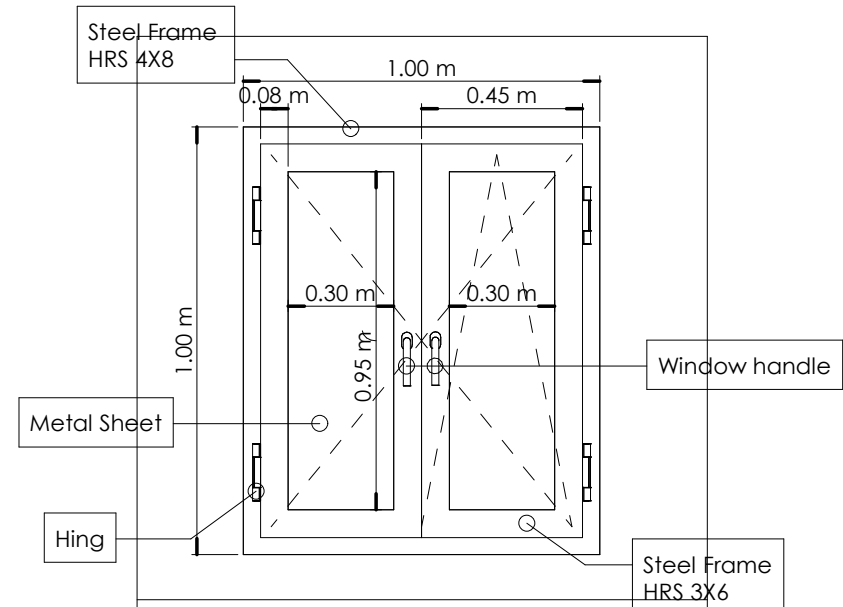






**DOOR Details**

1 : 20



**WINDOWS Details**

1 : 15



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AL-Amarat Mohamed Najeib Street, Khartoum  
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PROGRAM TITLE :  
T05-EUTF-HOA-SD-73-01

PROJECT TITLE :  
HEALTH CENTER OF OTASH (NY06)

LOCATION :  
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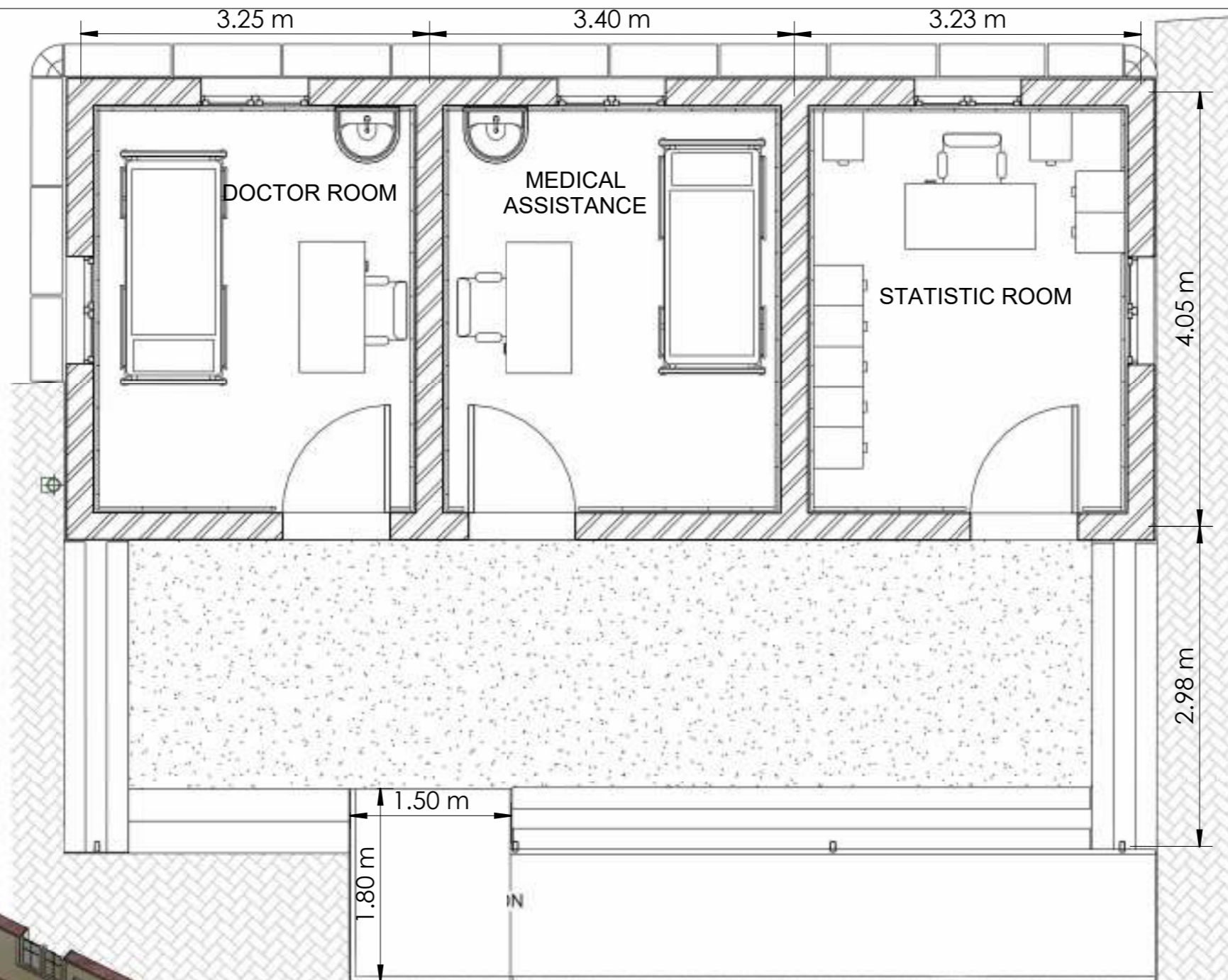
ARCHITECT :  
ENG. IBRAHIM MOHAMMED IBRAHIM  
STRUCTURAL ENGINEER :

ENG. Designer  
CHECKED BY :  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :  
Door and Windows Details

DATE : January 2022

|                 |         |  |
|-----------------|---------|--|
| INDEX :<br>B_13 | SCALE : |  |
|-----------------|---------|--|

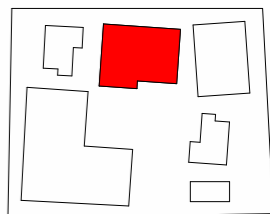


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HEALTH CENTER OF OTASH (NY06)

LOCATION:

SOUTH DARFUR NORTHERN NYALA

ARCHITECTURAL ENGINEER:

ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:

ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:

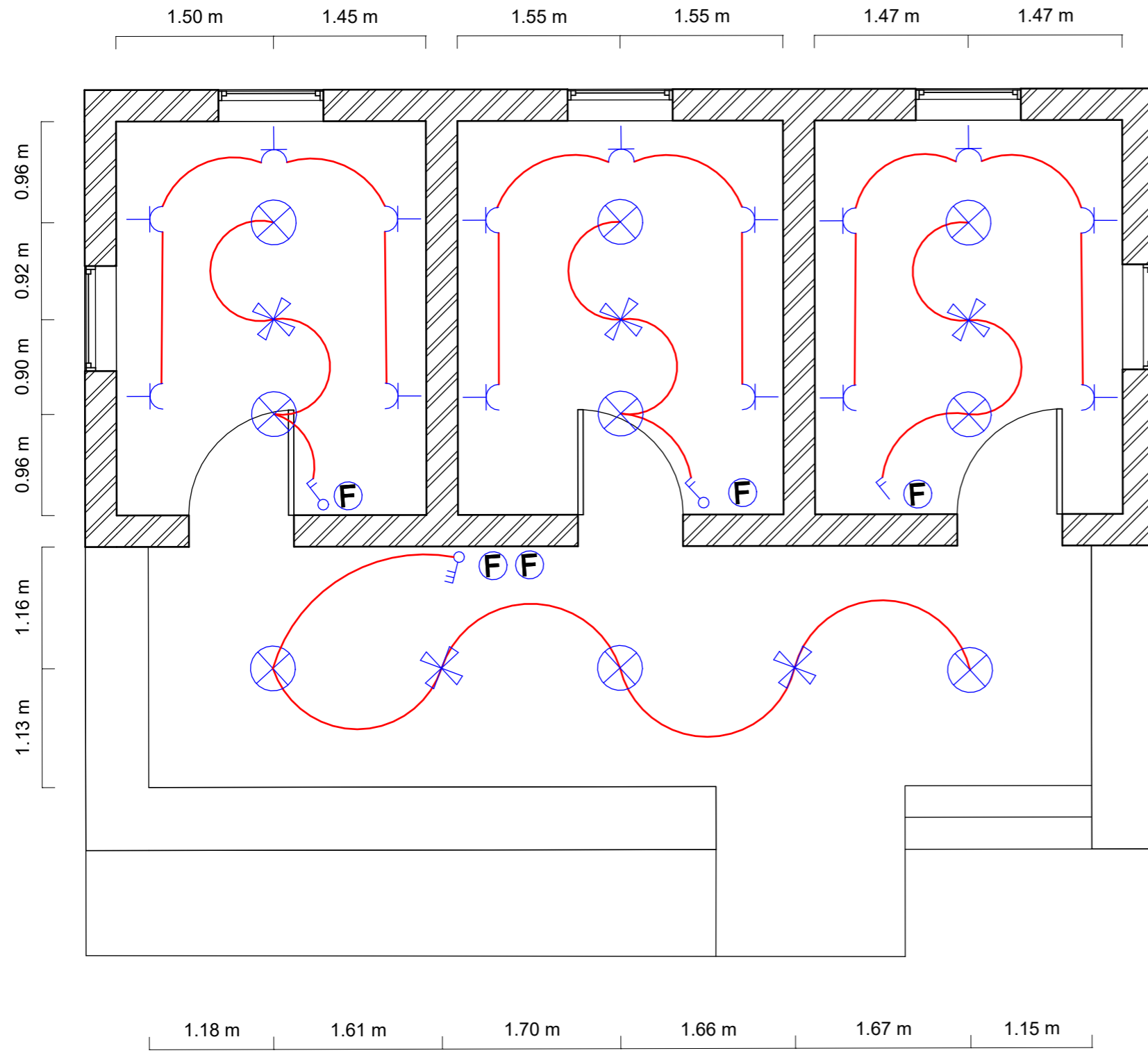
GROUND FLOOR PLAN FURNITURE

DATE: January 2022

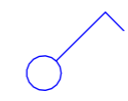
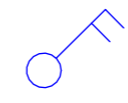
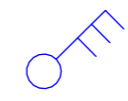
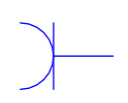

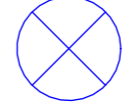
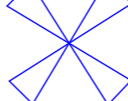
INDEX: B\_14

SCALE: 1 : 50





### DESCRIPTION

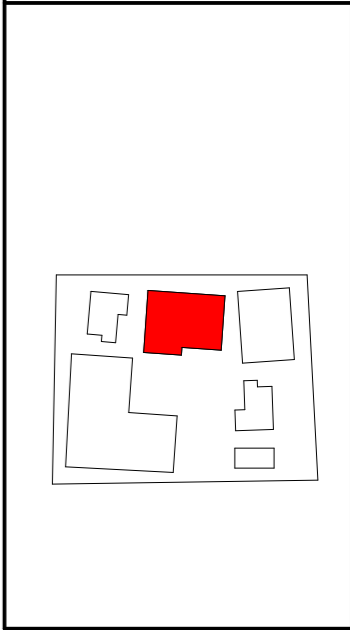
|   |                     |
|---|---------------------|
|    | SINGLE LIGHT SWITCH |
|    | DOUBLE LIGHT SWITCH |
|    | TRIPLE LIGHT SWITCH |
|    | SOCKET OUTLET POINT |
|   | FAN SWITCH          |
|  | CEILING LAMP        |
|  | CEILING FAN         |

**1** **BLOCK B**  
1 : 50



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](mailto:DQTC.ENGINEERING@GMAIL.COM)



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


PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

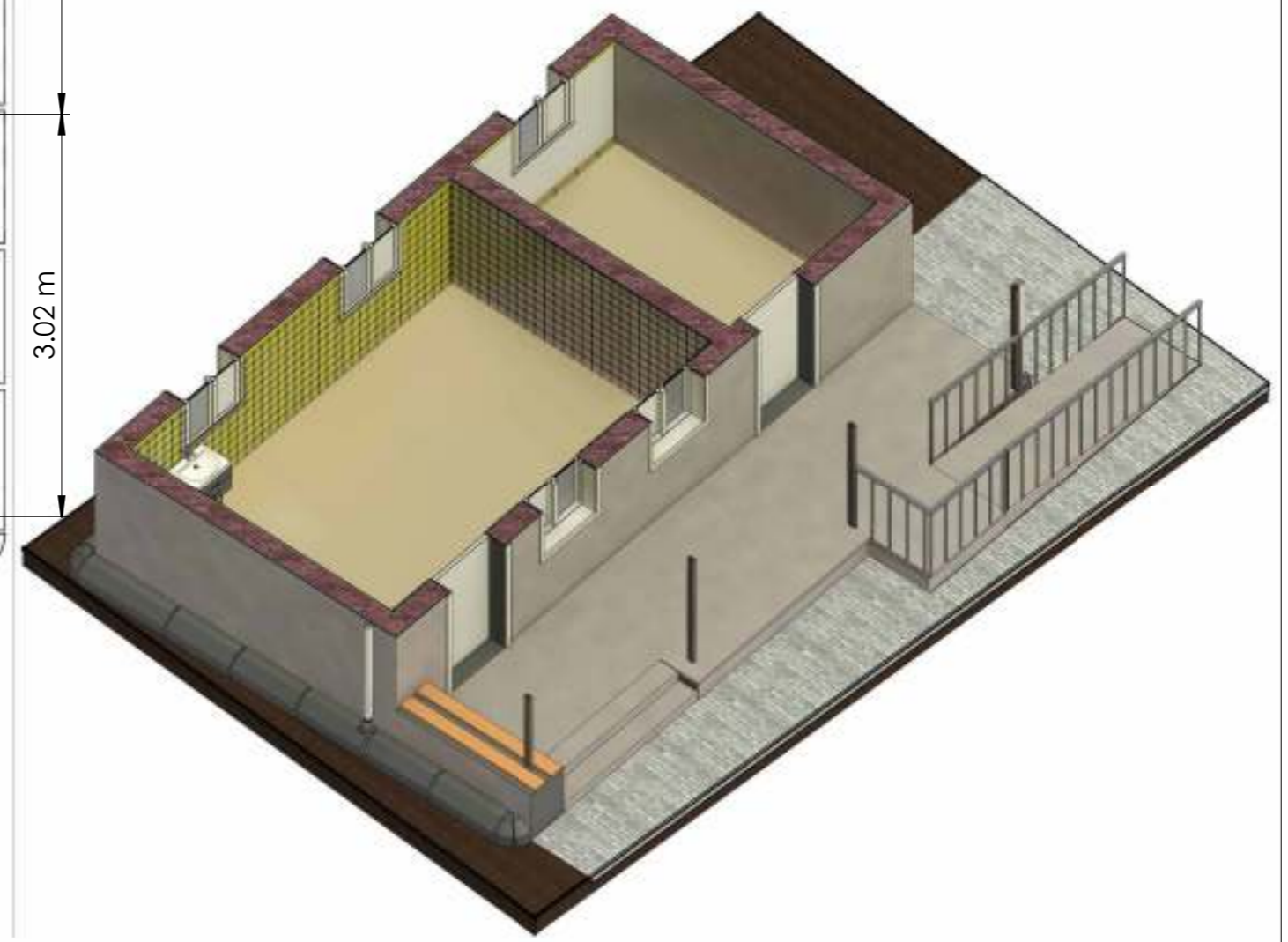
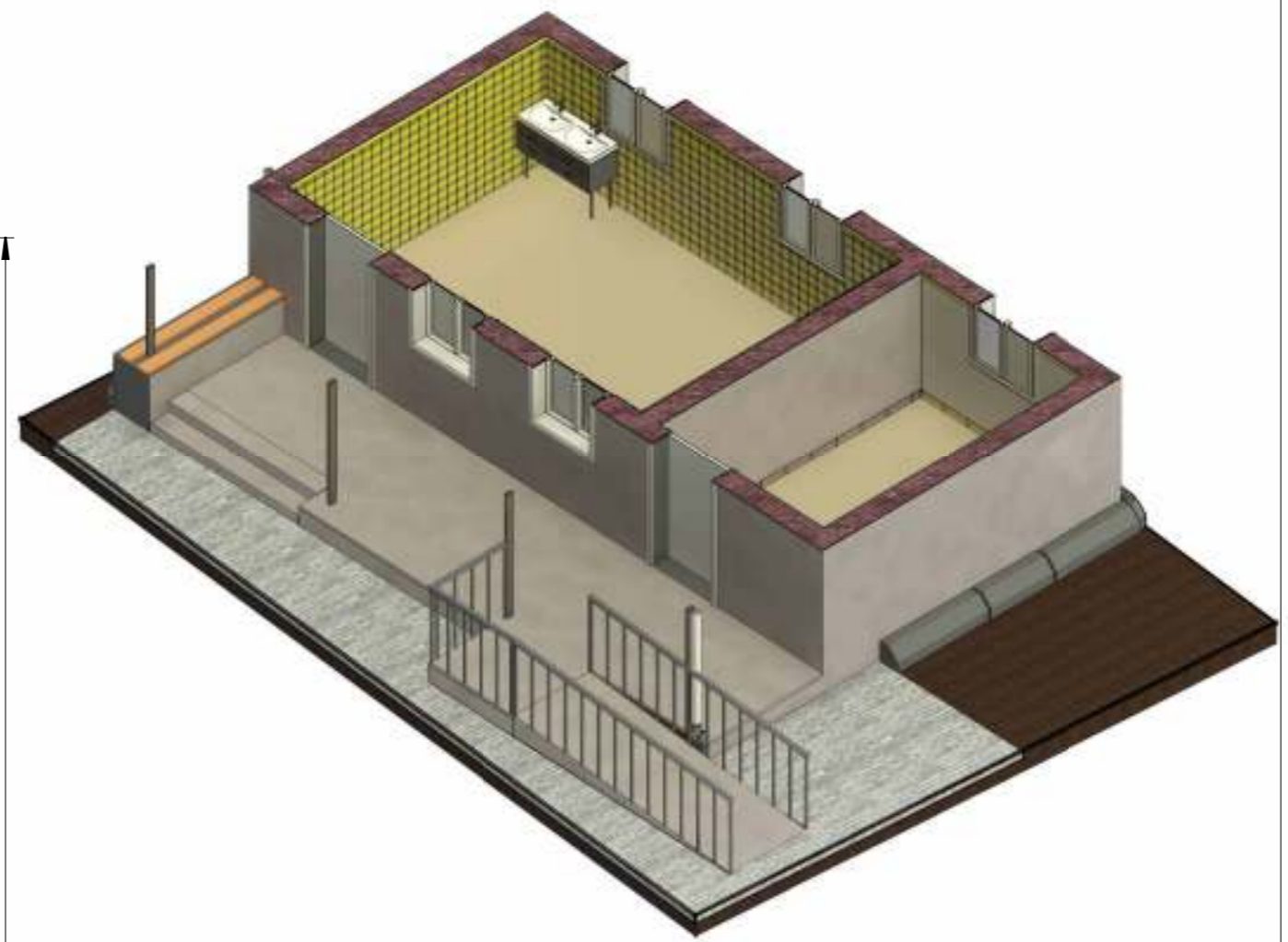
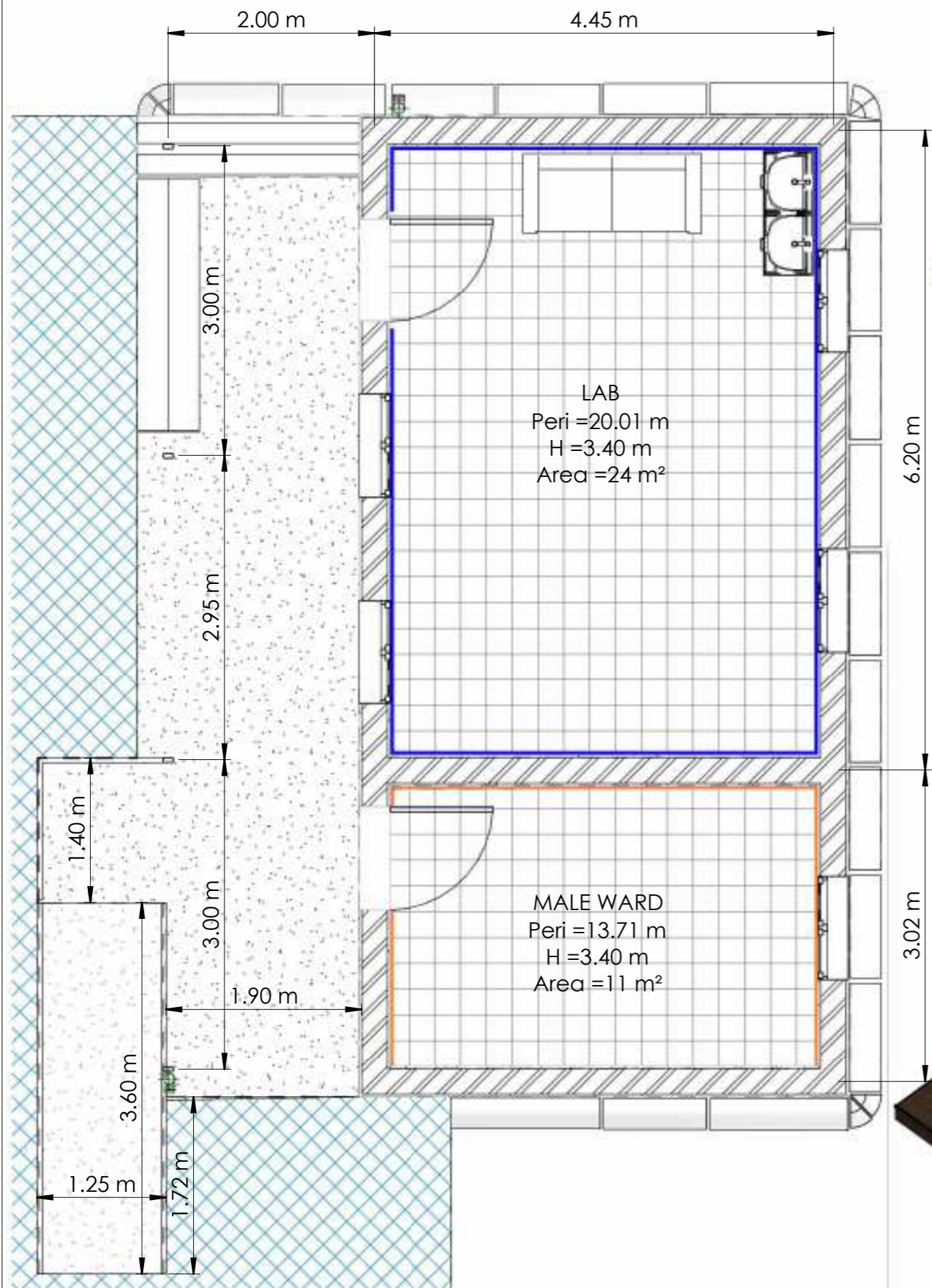
LOCATION:  
SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:  
ENG. MOHAMMED SALAH ALAMIR  
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
BLOCK B ELECTRICAL LAYOUT

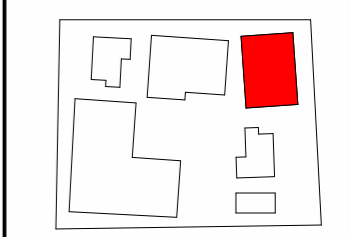
DATE: JANUARY 2022

|                |                  |   |
|----------------|------------------|---|
| INDEX:<br>B_15 | SCALE:<br>1 : 50 |  |
|----------------|------------------|---|



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



**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 (NY06)

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

|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| C_01   | 1 : 50 |  |

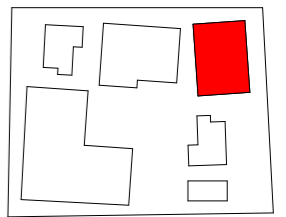


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Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL. +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

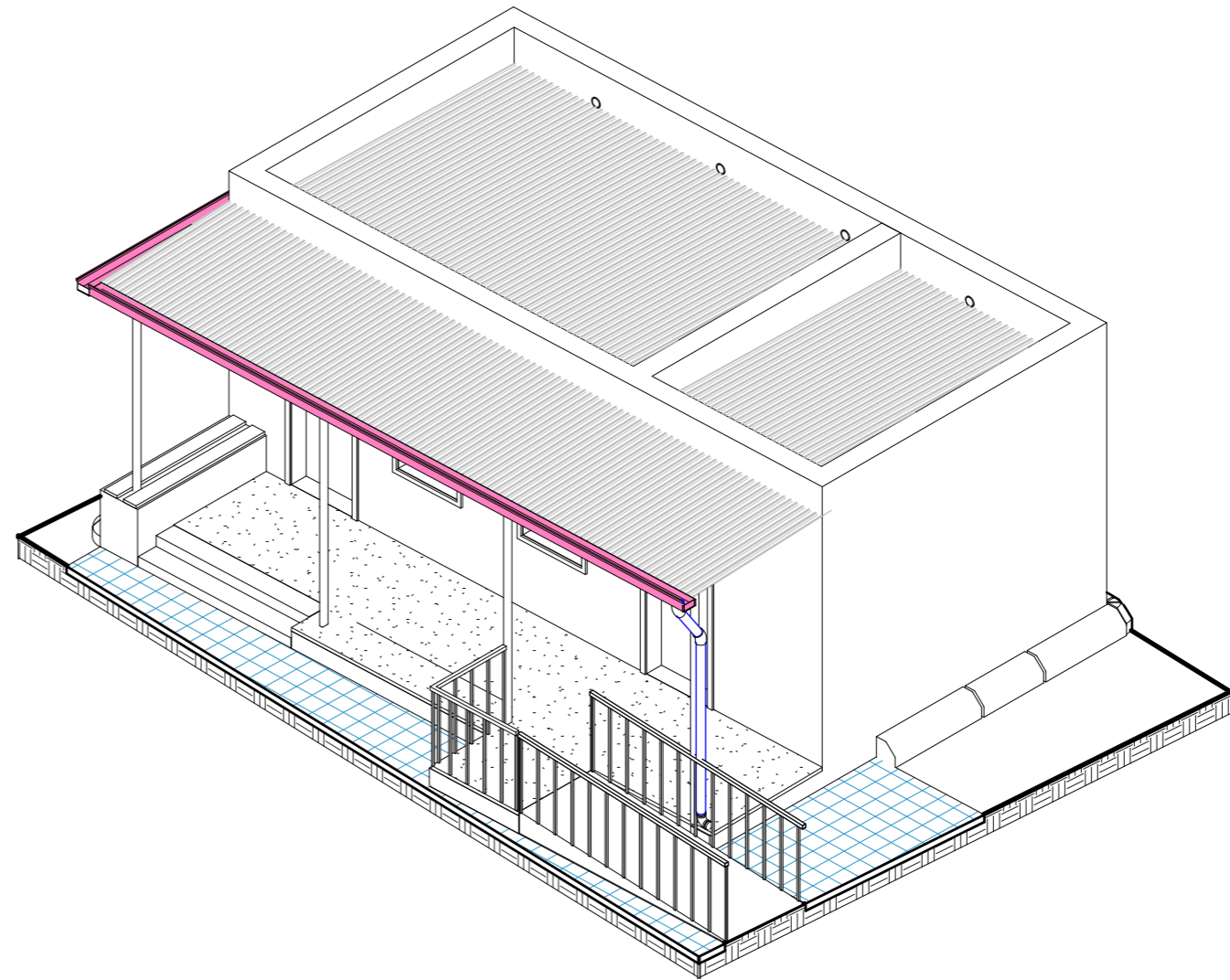
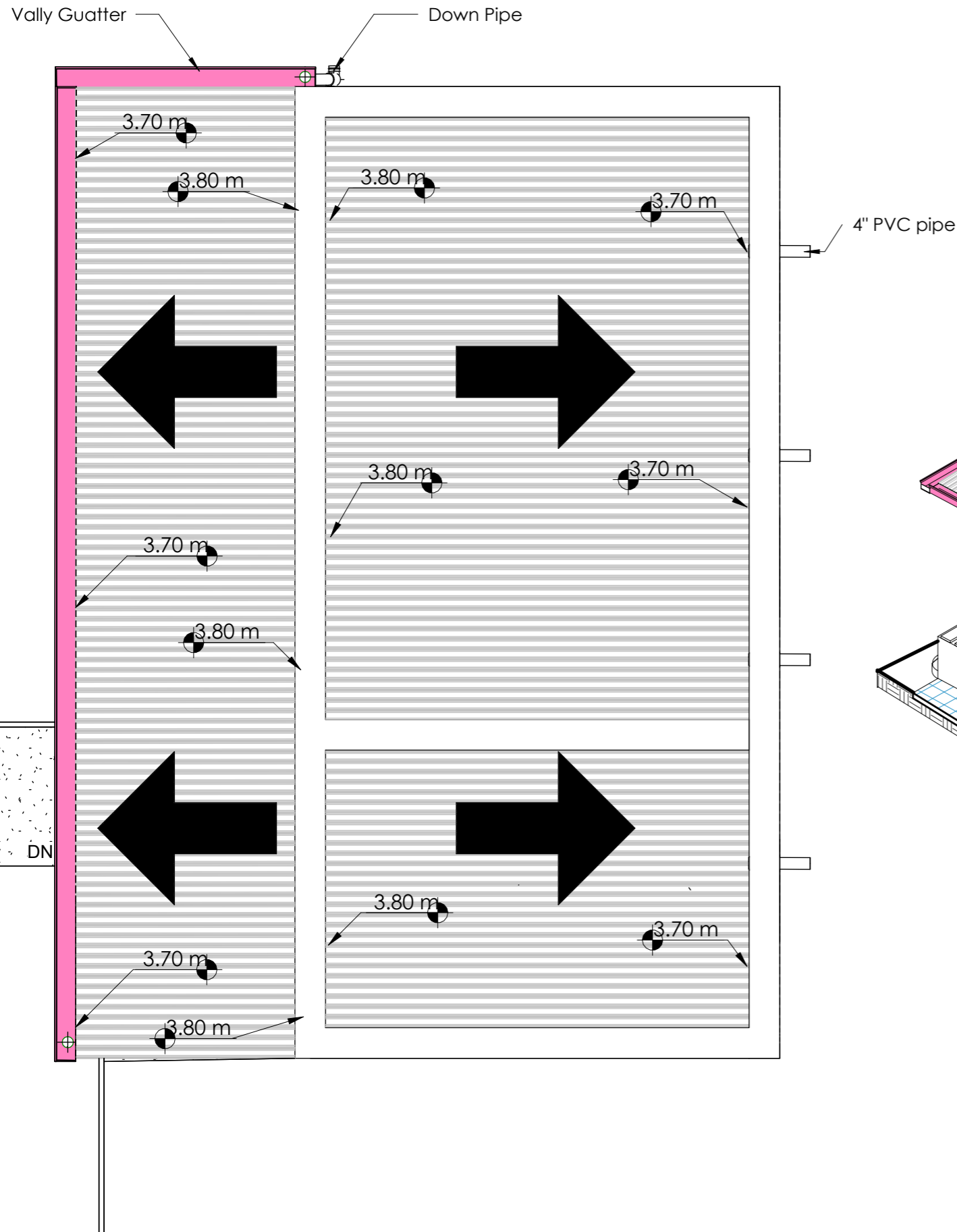
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SOUTH DARFUR NORTHERN NYALA

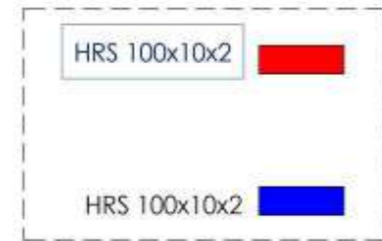
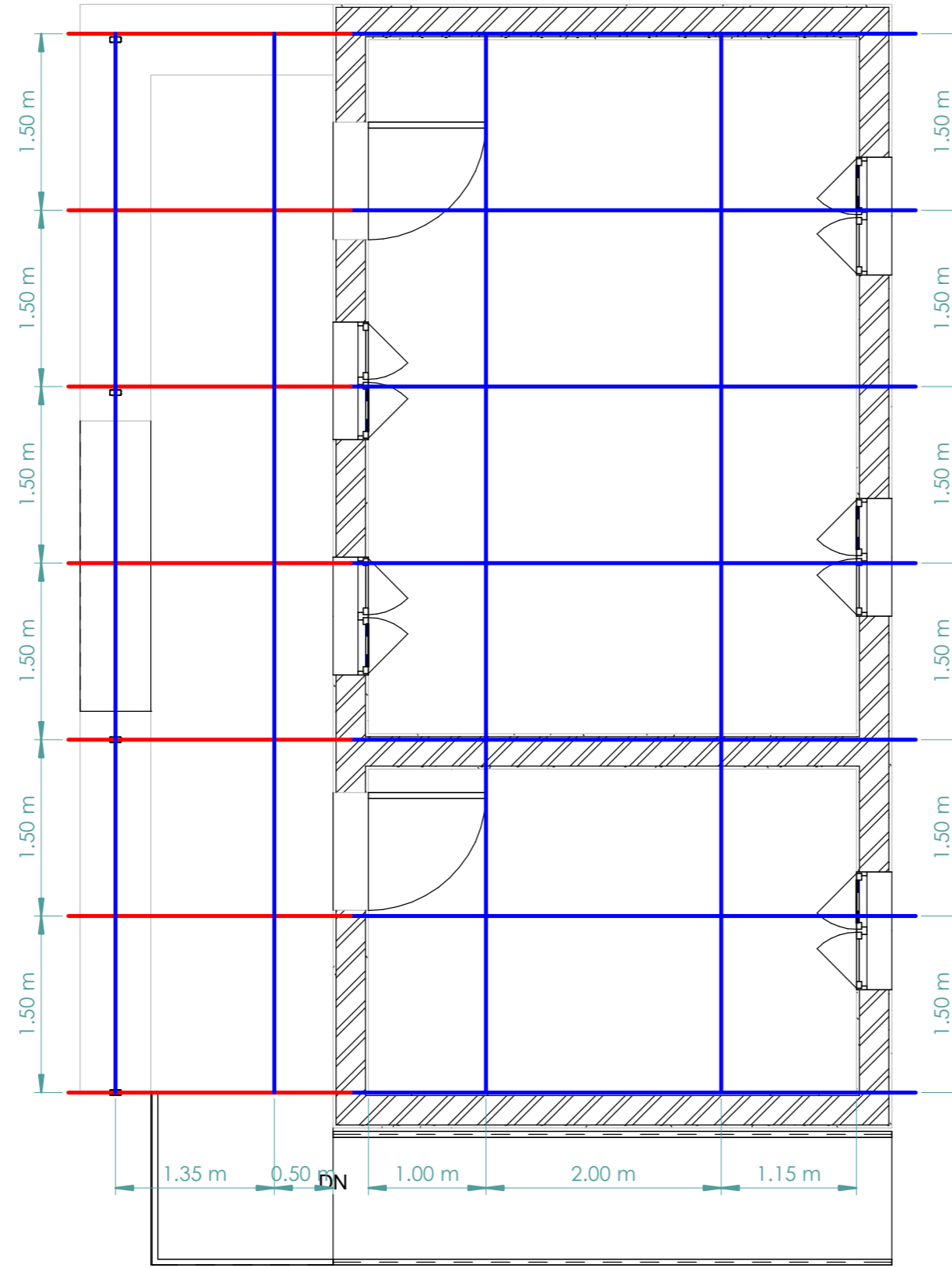
ARCHITECTURAL ENGINEER:  
ENG. IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
ROOF PLAN

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>C_02 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|





**1** BLOCK C Roof Structure  
 Plan  
 1 : 50

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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

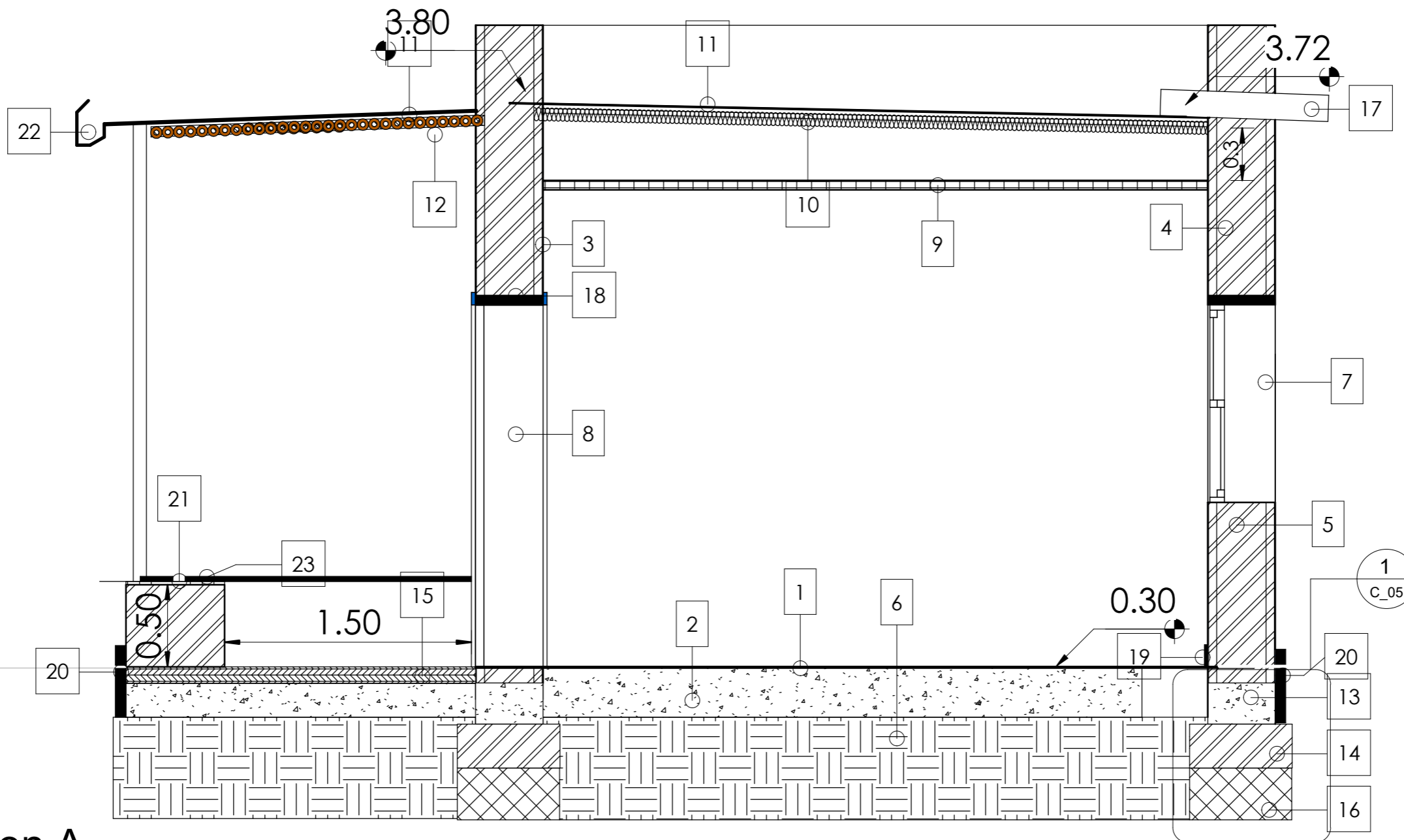
LOCATION:  
 SOUTH DARFUR  
 Northern Nyala

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

DRAWING TITLE:  
 Roof Structure Plan

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>C_03 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



**1** 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 |                   |

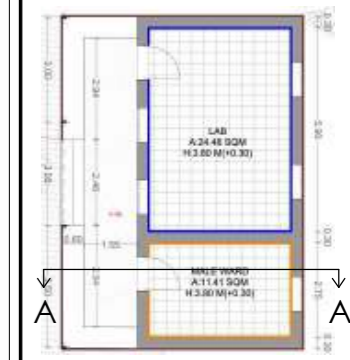


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Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto: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

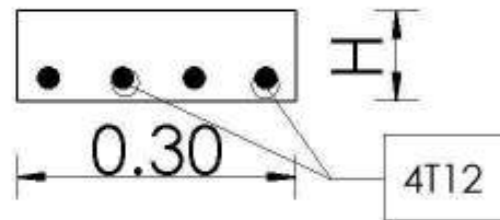
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Roof Section

DATE: January 2022

INDEX: C\_04 SCALE: 1 : 30

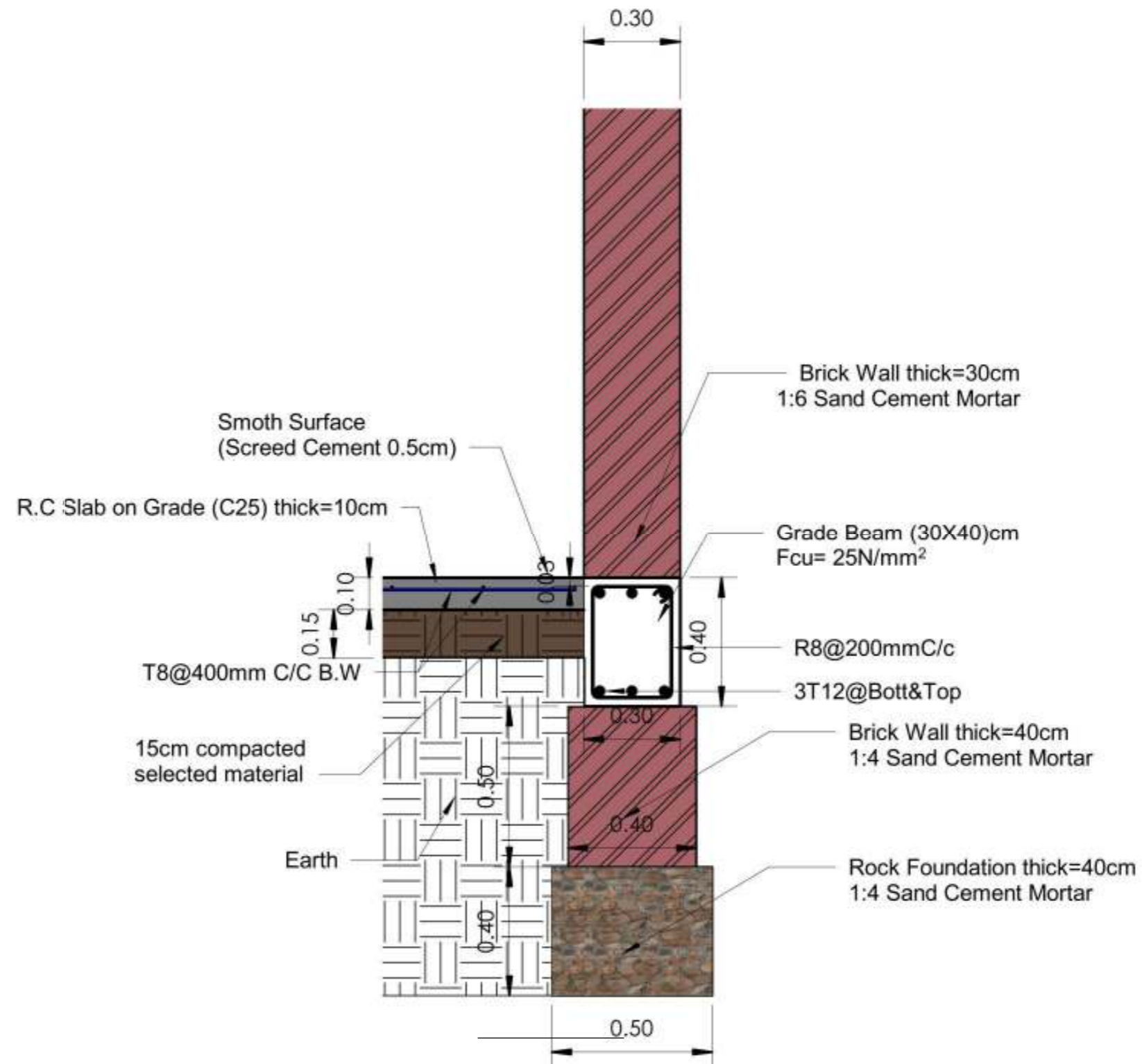


Lintel Beam



H = 10cm for opening width = < 1 m

H = 15cm for opening width > 1 m



1 Callout A  
1 : 15



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Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto: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

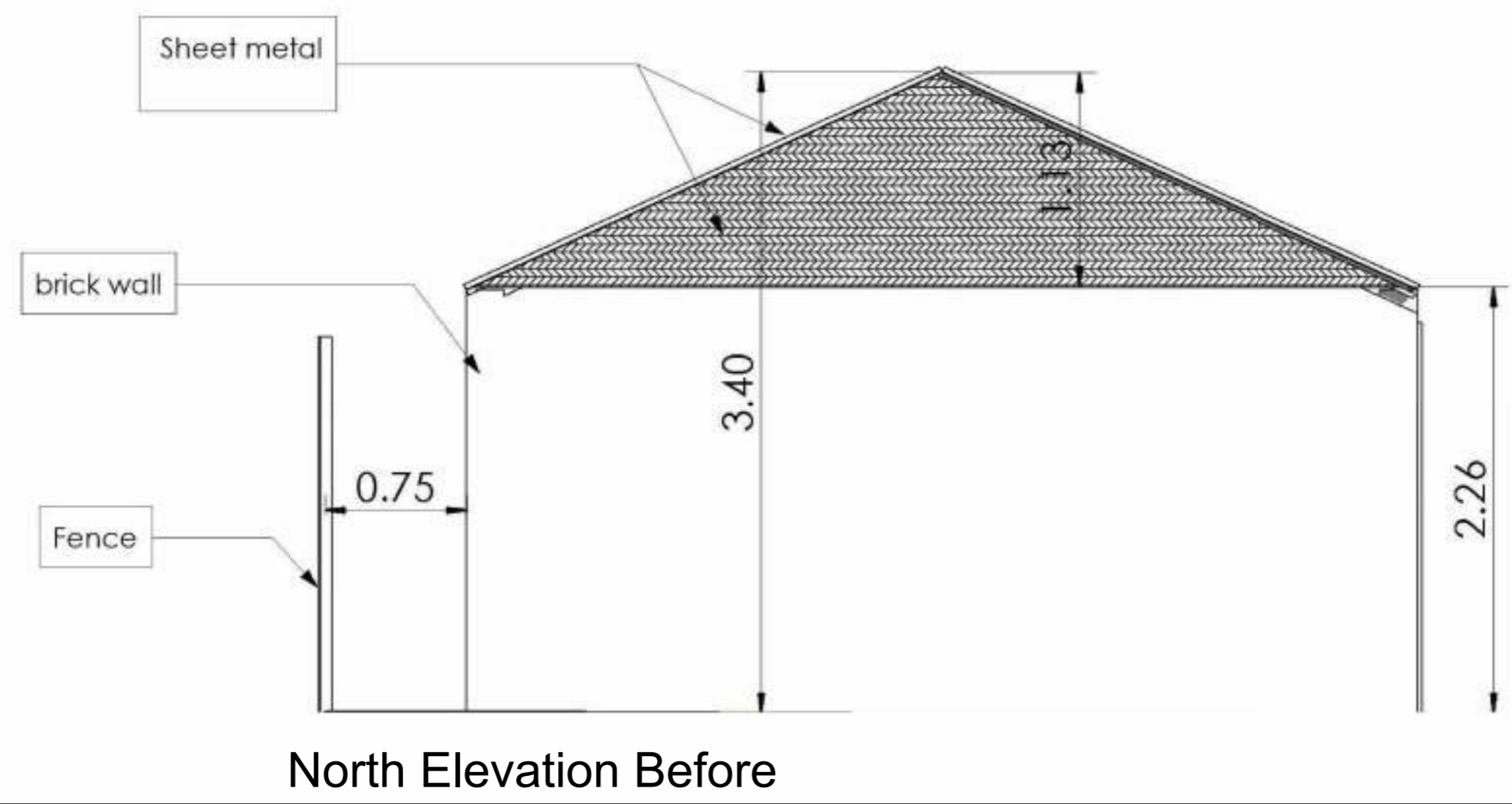
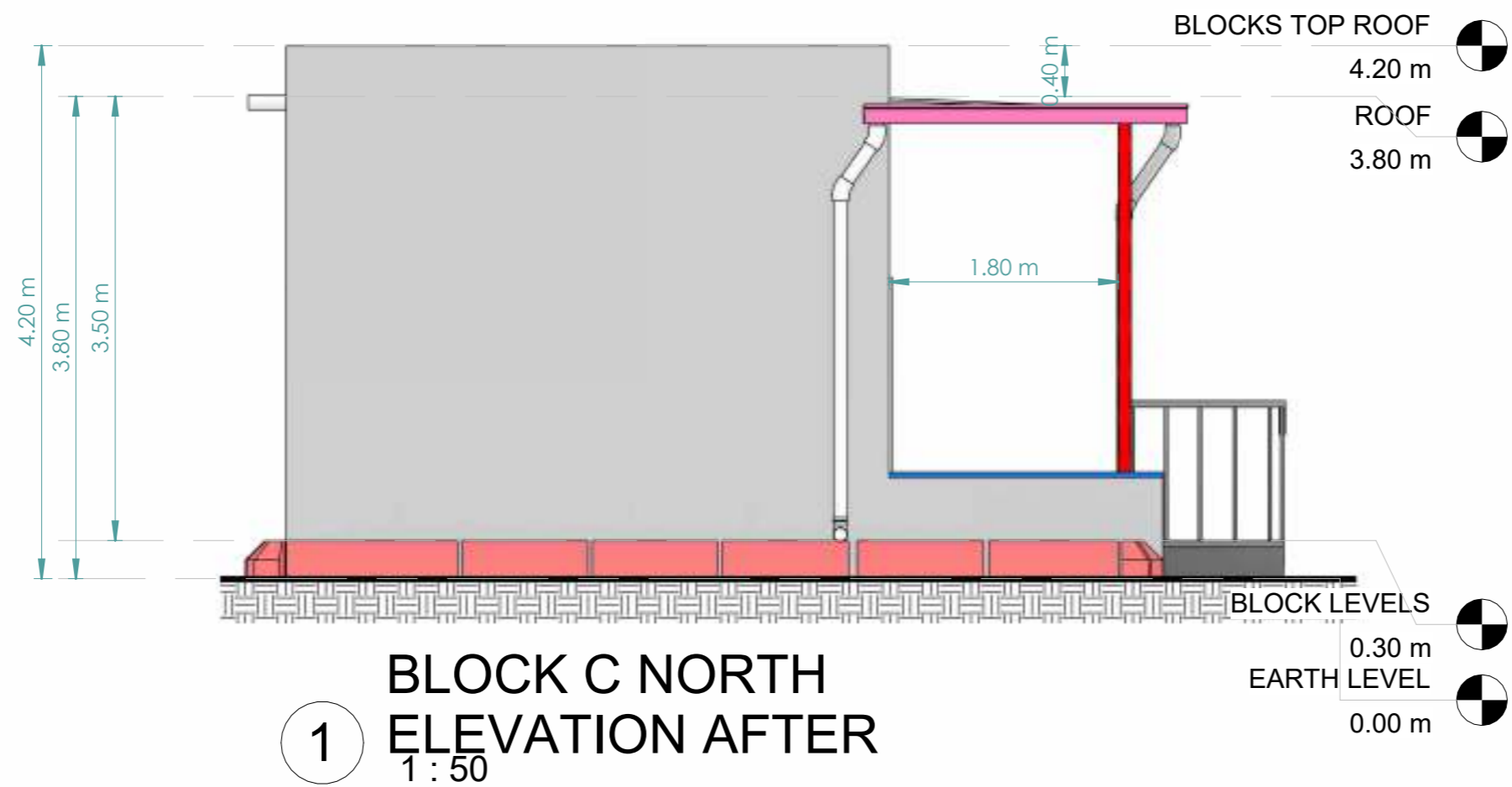
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
Lintel Beam and Callout

DATE: January 2022

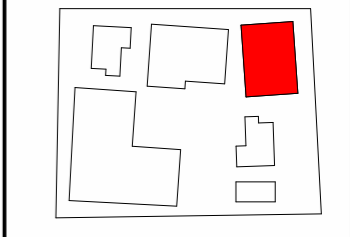
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| INDEX:<br>C_05 | SCALE:<br>1 : 15 |  |
|----------------|------------------|--|





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TEL: +249925451234  
+249115418666  
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| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | wodden bambo sticks  |
|        | steel column 10X5 cm |
|        | Wodden Planks        |
|        | Curbstone            |
|        | inter lock           |

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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

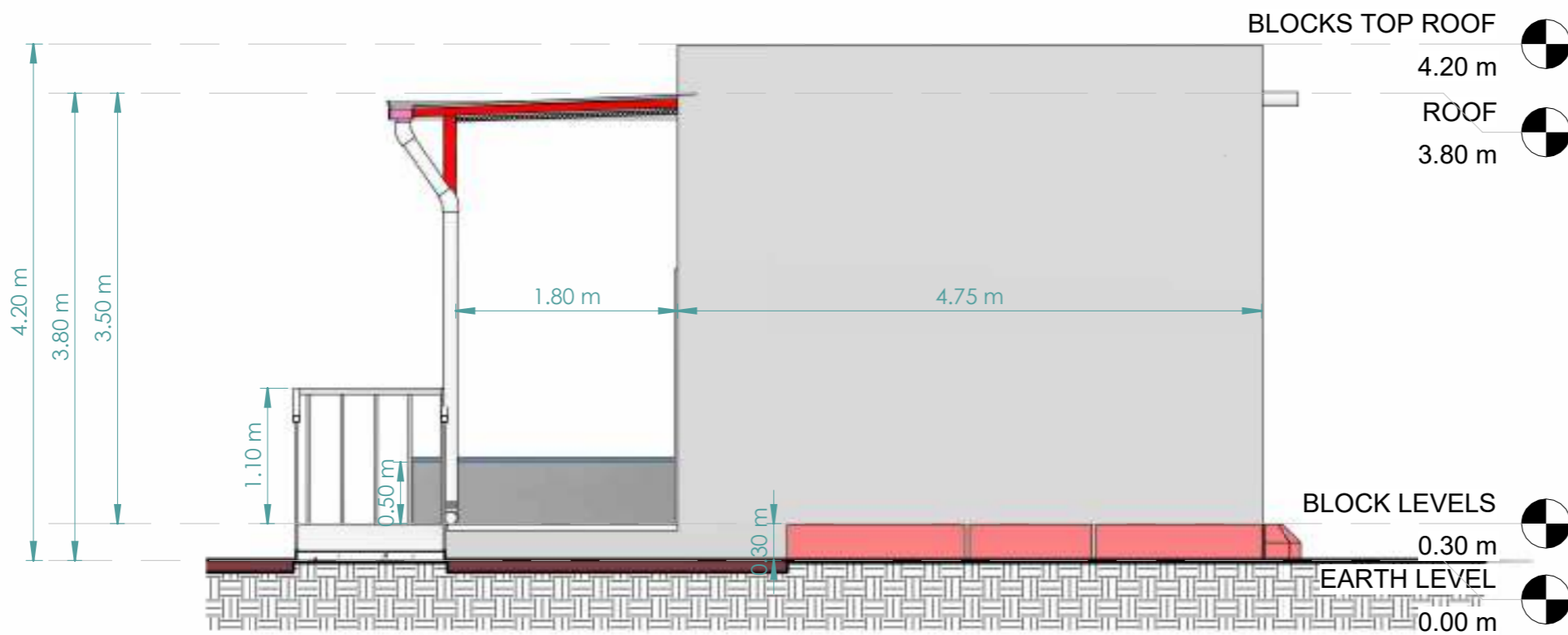
LOCATION:  
SOUTH DARFUR NORTHERN NYALA

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

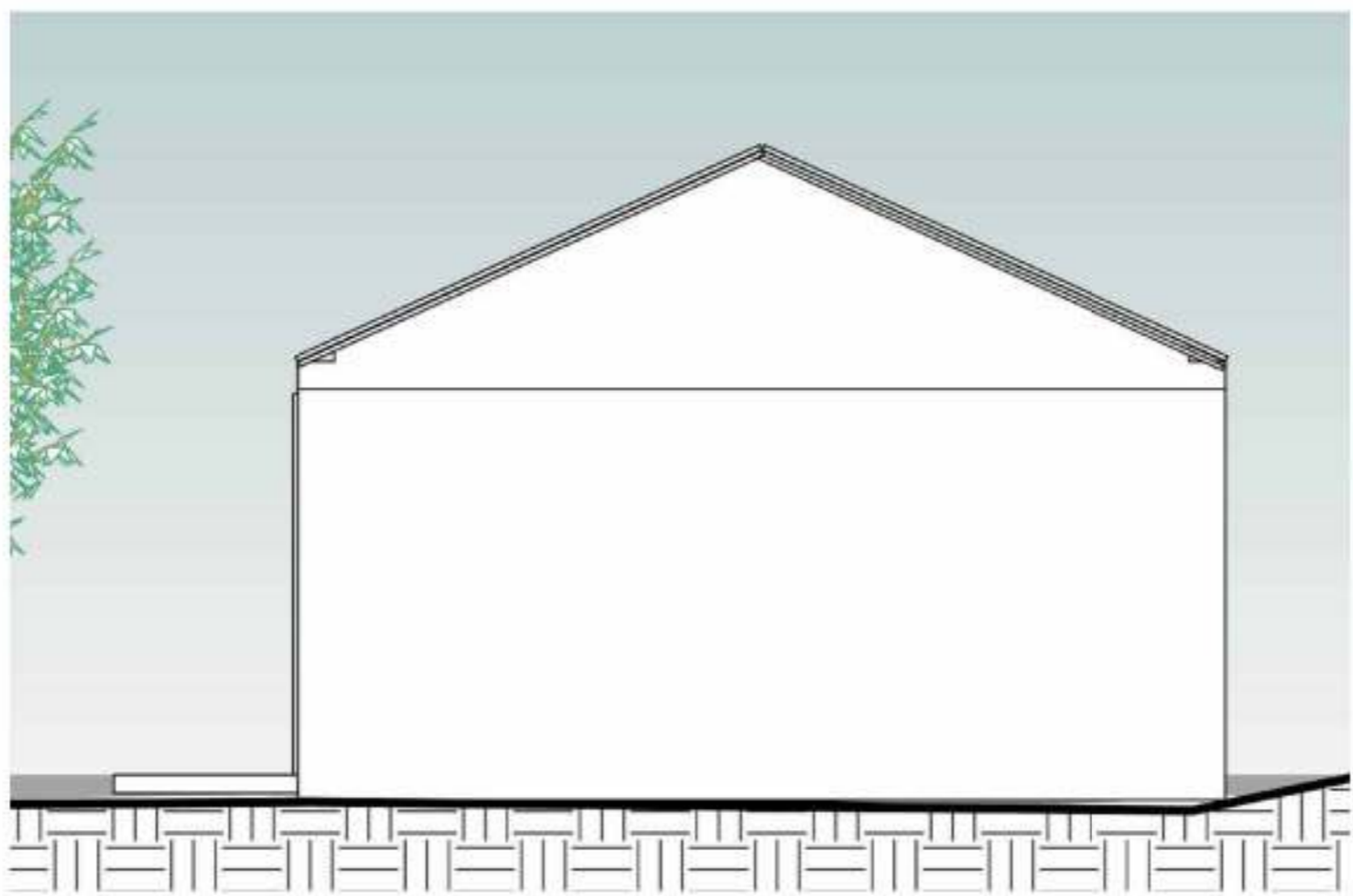
DRAWING TITLE:  
ELEVATIONS

DATE: January 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>C_06 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



1 **BLOCK C SOUTH ELEVATION**  
1 : 50



South Elevation Before

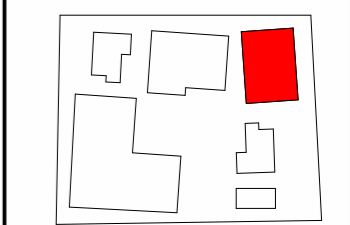


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TEL: +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



**Legend**

|  |                      |
|--|----------------------|
|  | vally gutter         |
|  | wodden bambo sticks  |
|  | steel column 10X5 cm |
|  | Wodden Planks        |
|  | Curbstone            |
|  | inter lock           |

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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

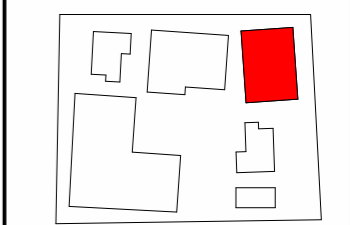
LOCATION:  
SOUTH DARFUR NORTHERN NYALA

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

DRAWING TITLE:  
ELEVATIONS

DATE: January 2022

|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| C_07   | 1 : 50 |  |



| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | woodden bambo sticks |
|        | steel column 10X5 cm |
|        | Woodden Planks       |
|        | Curbstone            |
|        | inter lock           |

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

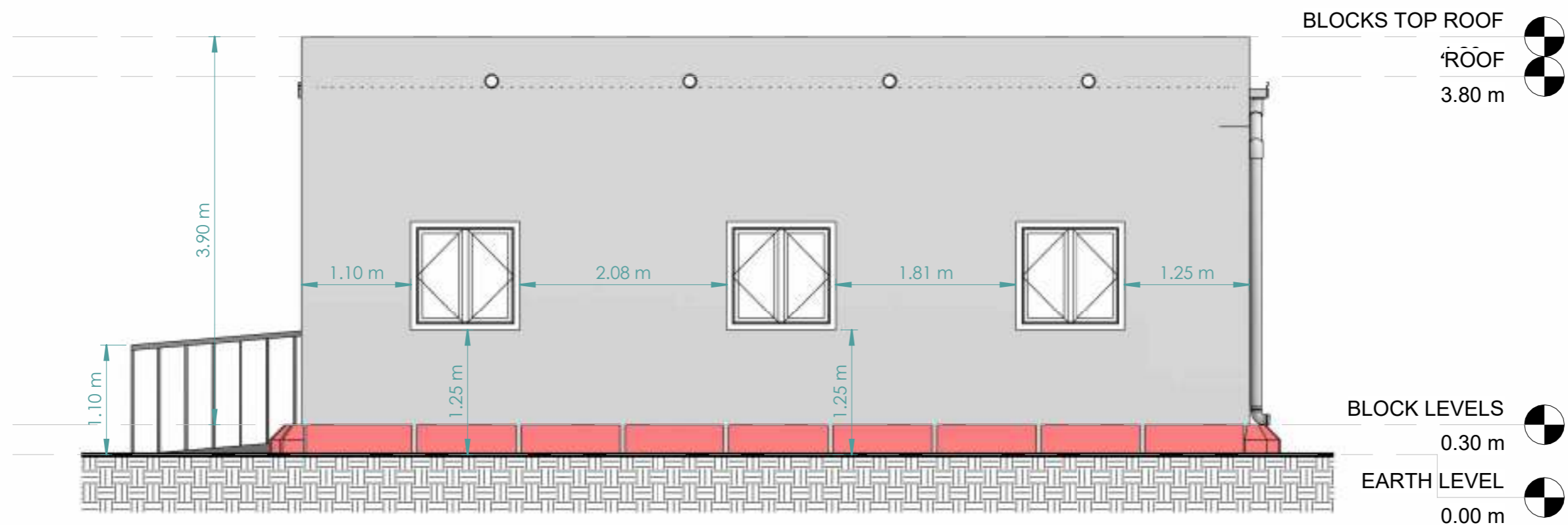
PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

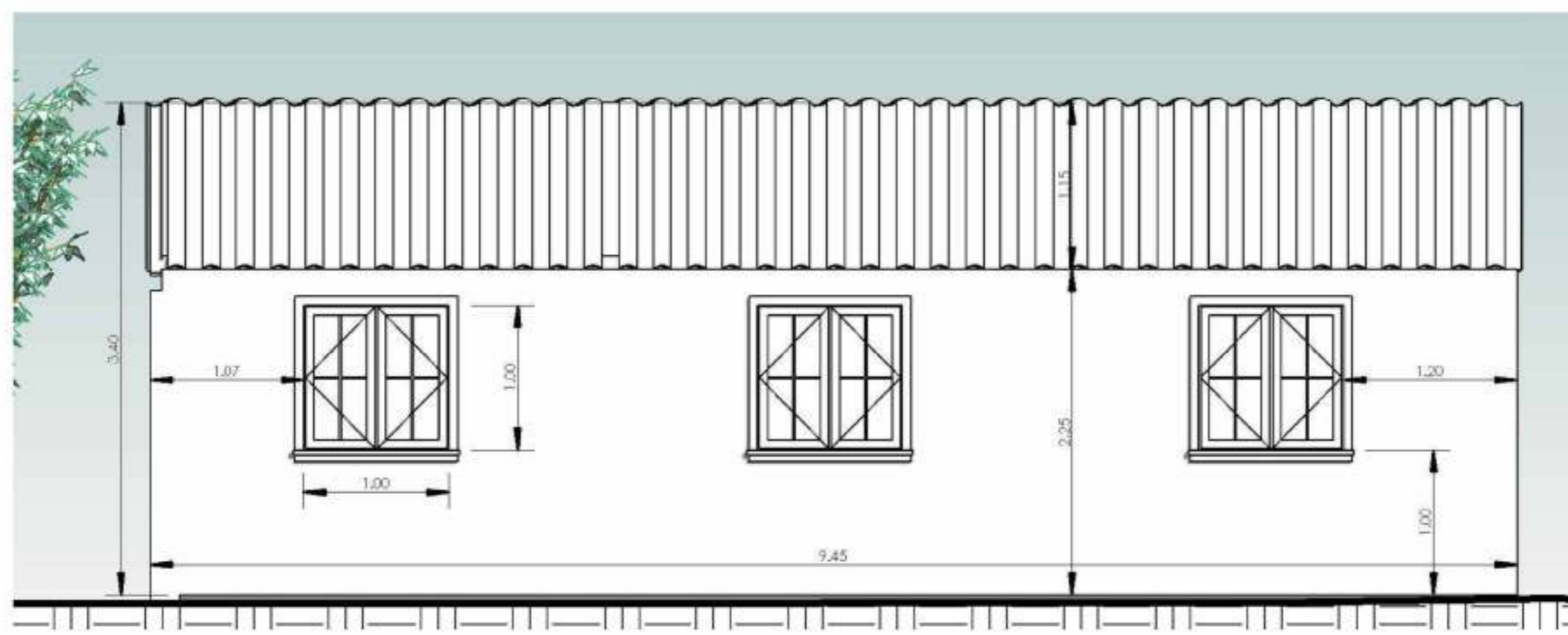
ARCHITECTURAL ENGINEER:  
 ENG. IBRAHIM MOHAMMED IBRAHIM  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 ELEVATIONS

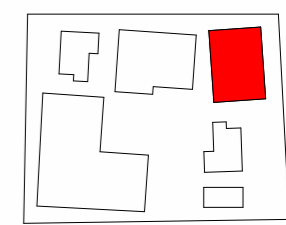
DATE: January 2022  
 INDEX: C\_08      SCALE: 1 : 50



**1** BLOCK C EAST  
 ELEVATION  
 1 : 50



East Elevation Before



| Legend |                      |
|--------|----------------------|
|        | vally gutter         |
|        | wodden bambo sticks  |
|        | steel column 10X5 cm |
|        | Wodden Planks        |
|        | Curbstone            |
|        | inter lock           |

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

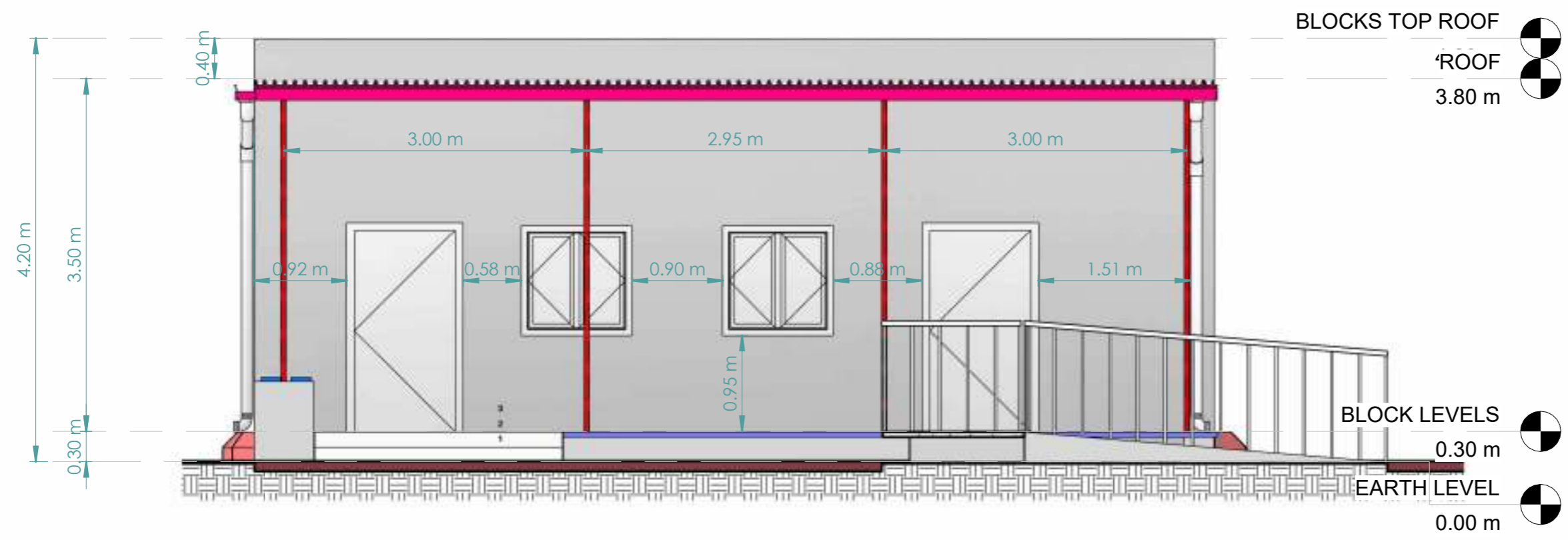
PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

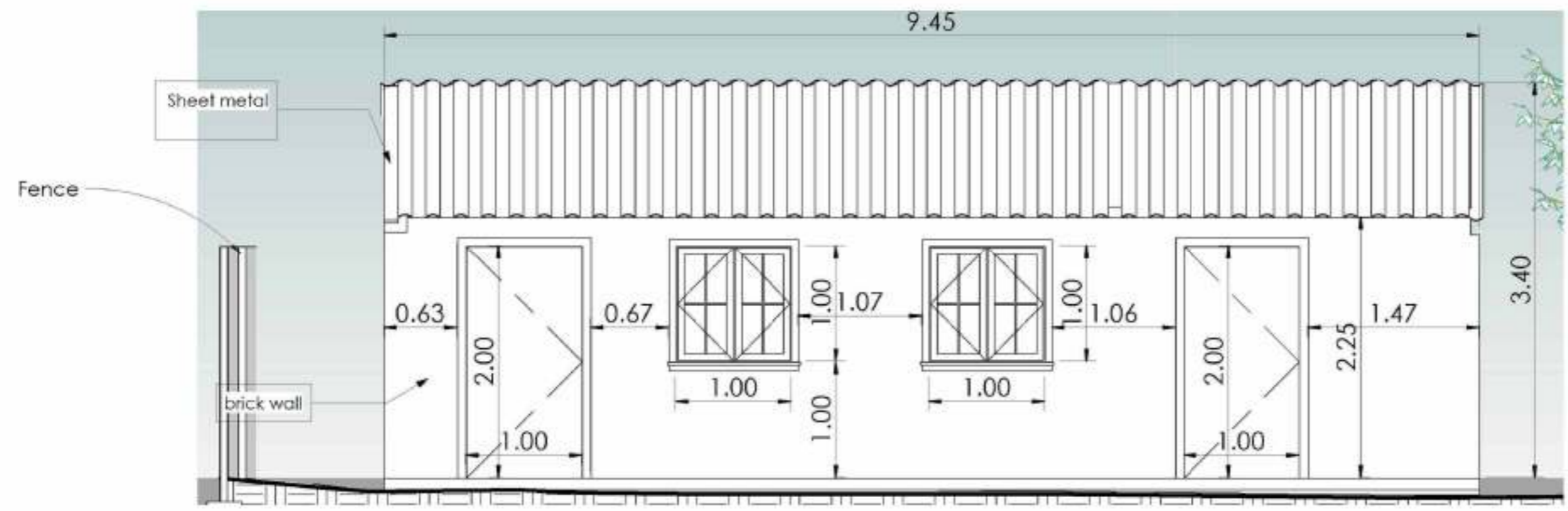
ARCHITECTURAL ENGINEER:  
 ENG. IBRAHIM MOHAMMED IBRAHIM  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 ELEVATIONS

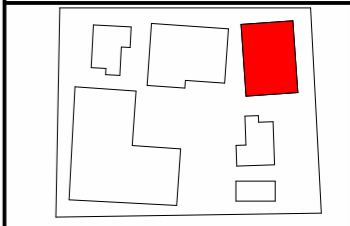
DATE: January 2022  
 INDEX: C\_09 SCALE: 1 : 50



**1** BLOCK C WEST ELEVATION AFTER  
 1 : 50



West Elevation Before



| Legend |  |
|--------|--|
|        | Steel column 10X5 cm                               |
|        | False ceiling                                      |
|        | Emulsion point (internal) from 1.70m up to ceiling |
|        | Glossy oil point (internal) from floor up to 1.70m |
|        | Wall Tiles 15X15                                   |
|        | Skirting Tiles 40X10                               |
|        | Floor Tiles 40X40                                  |
|        | Reinforced Concrete Floor                          |
|        | Compacted Soil                                     |

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

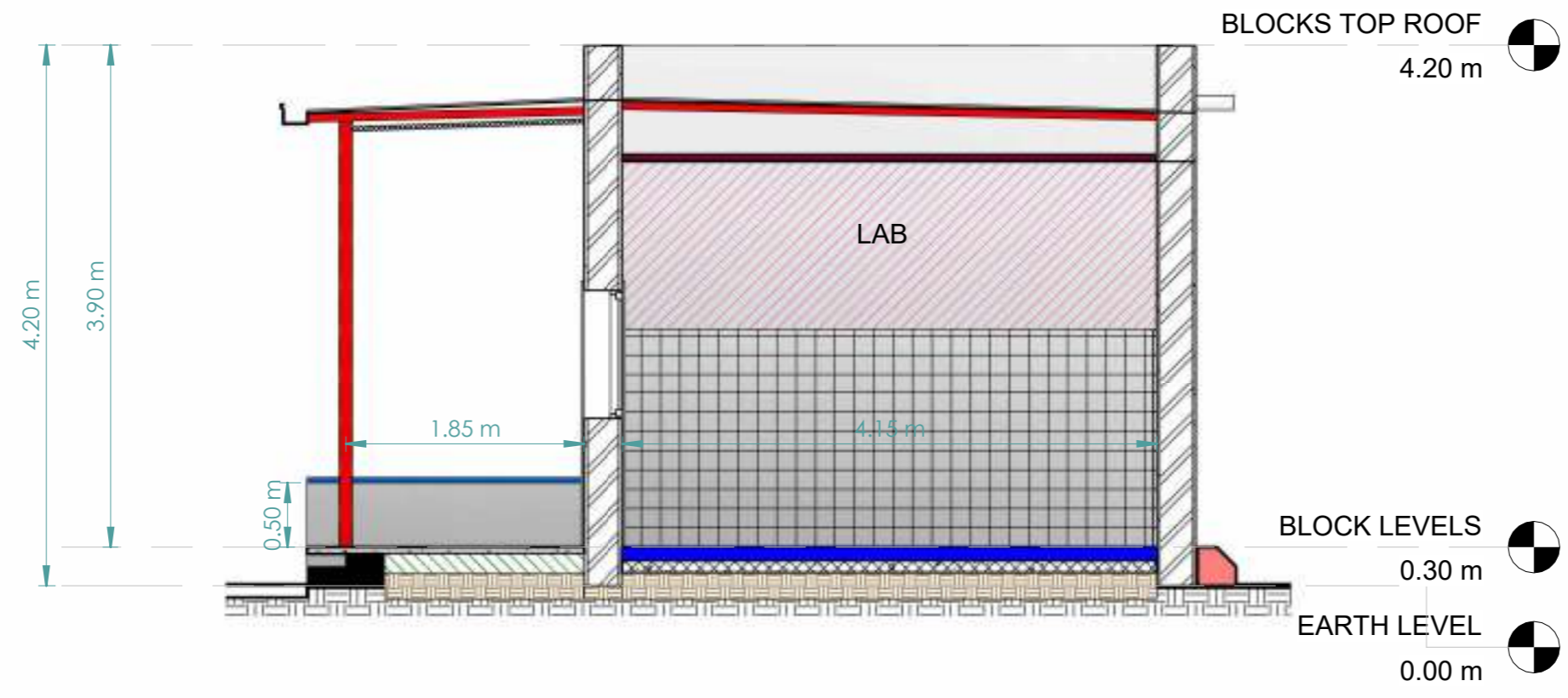
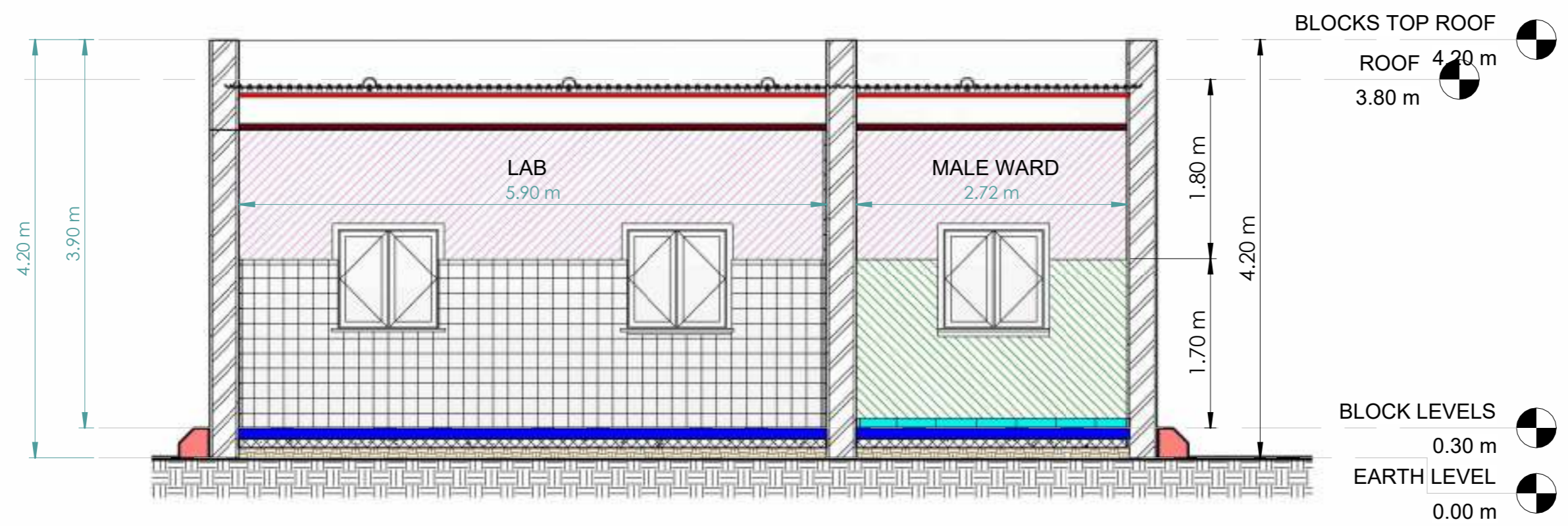
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 HEALTH CENTER OF OTASH (NY06)

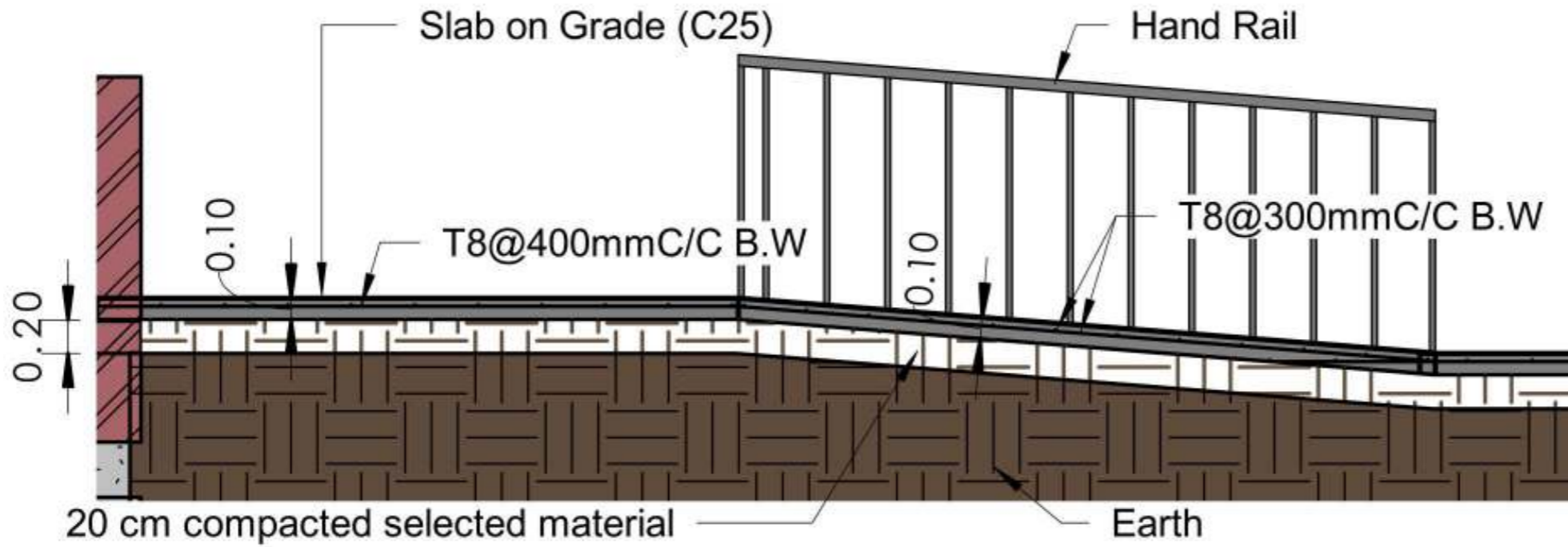
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

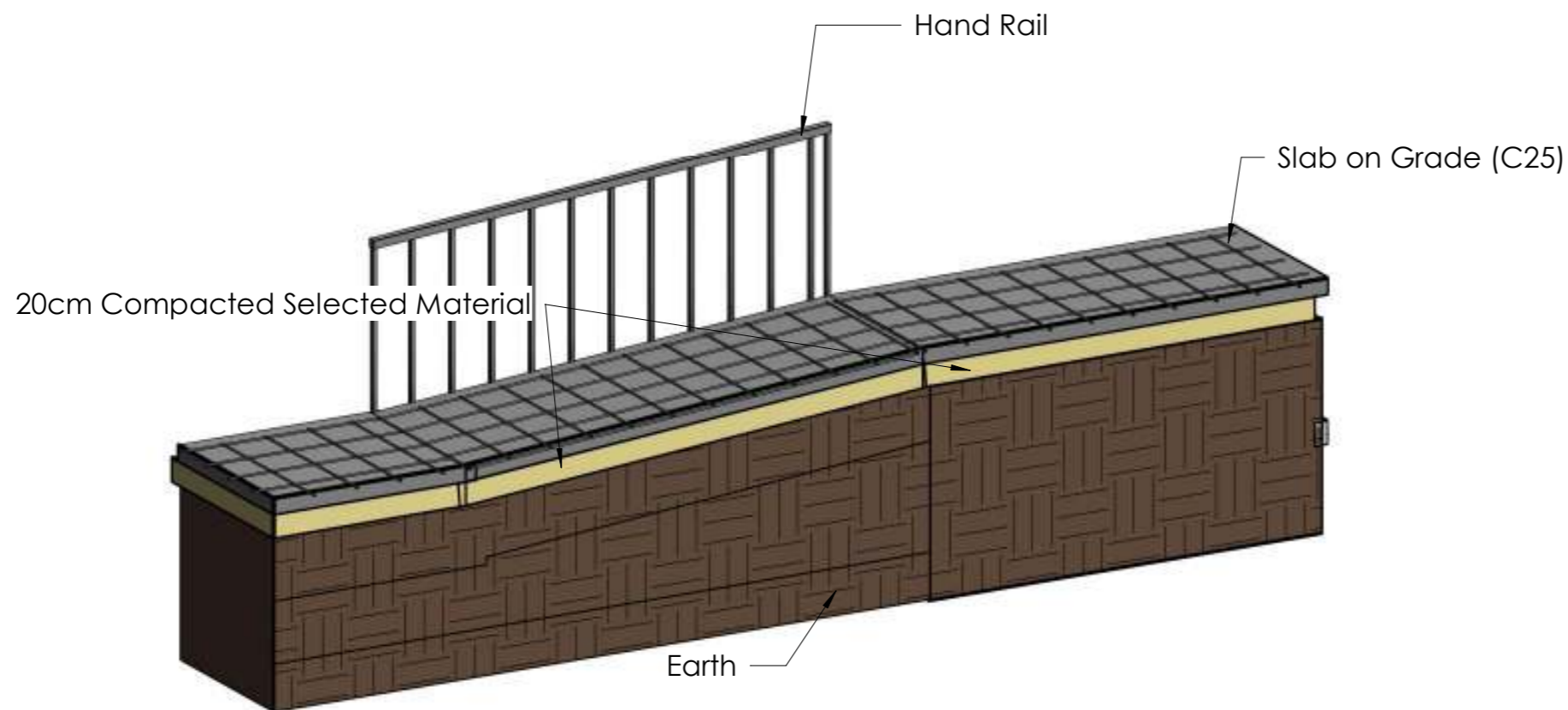
DRAWING TITLE:  
 SECTIONS

DATE: January 2022  
 INDEX: C\_10      SCALE: 1 : 50





Ramp Section 1:20



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

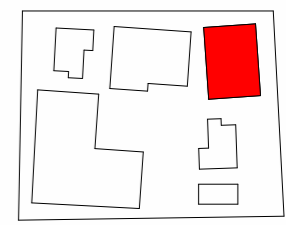
DRAWING TITLE:  
 Ramp Section and 3D

DATE: January 2022

INDEX:  
 C\_11

SCALE:





**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

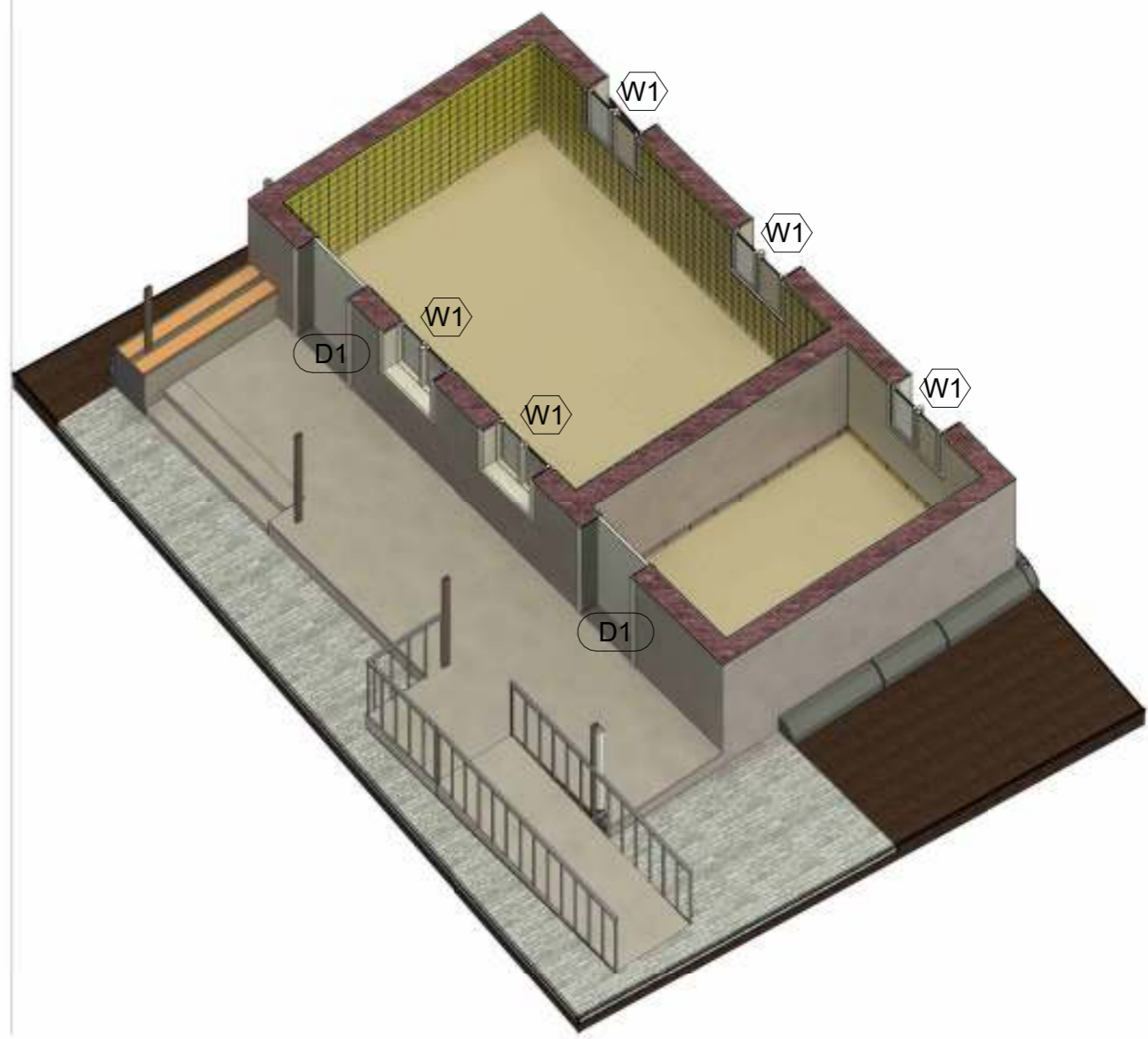
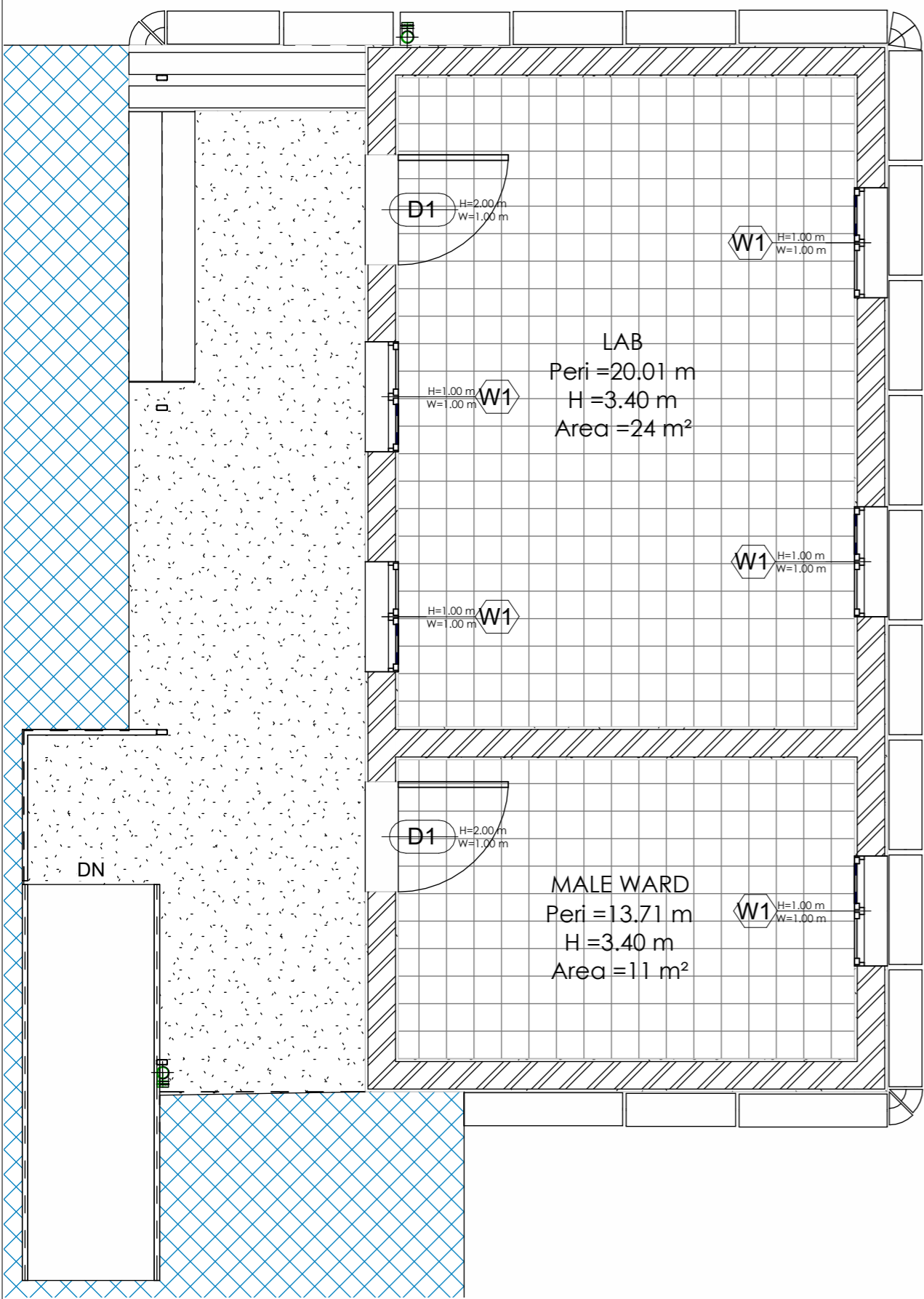
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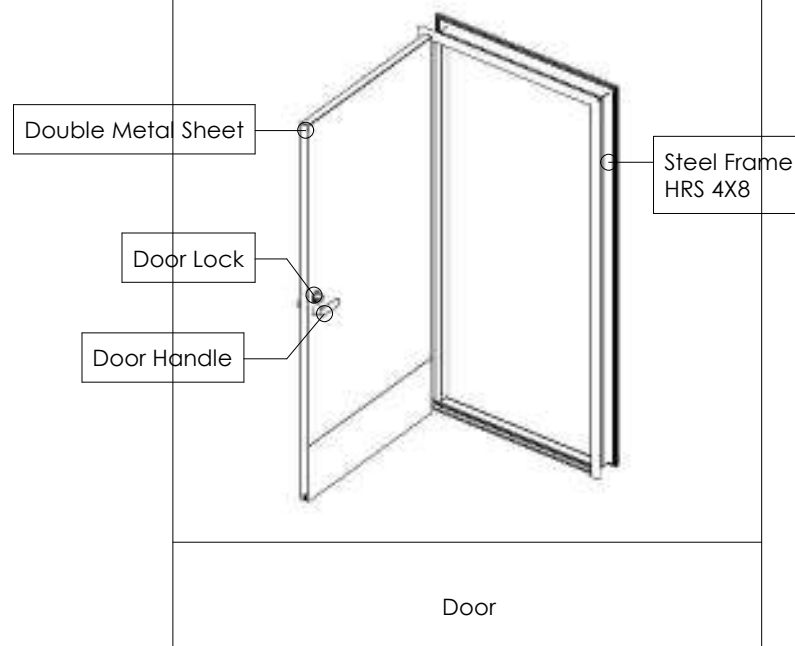
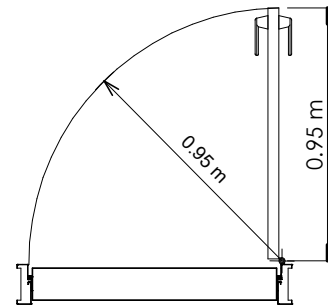
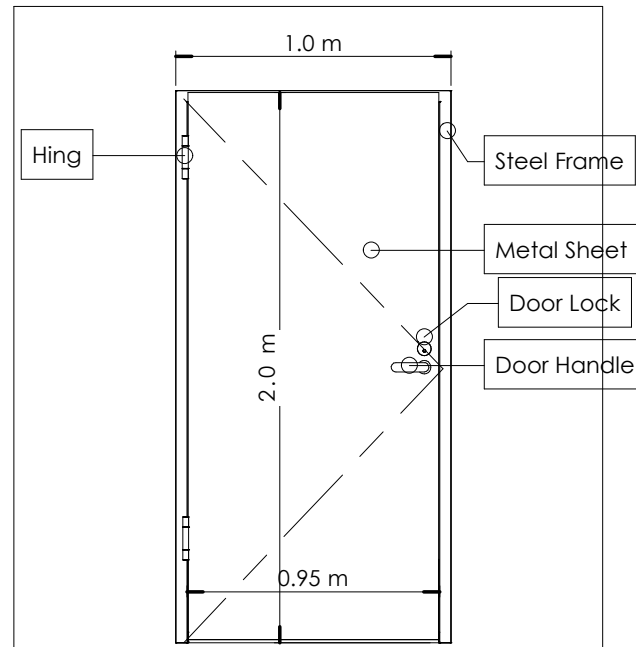
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 GROUND FLOOR PLAN Doors & Windows

DATE: January 2022

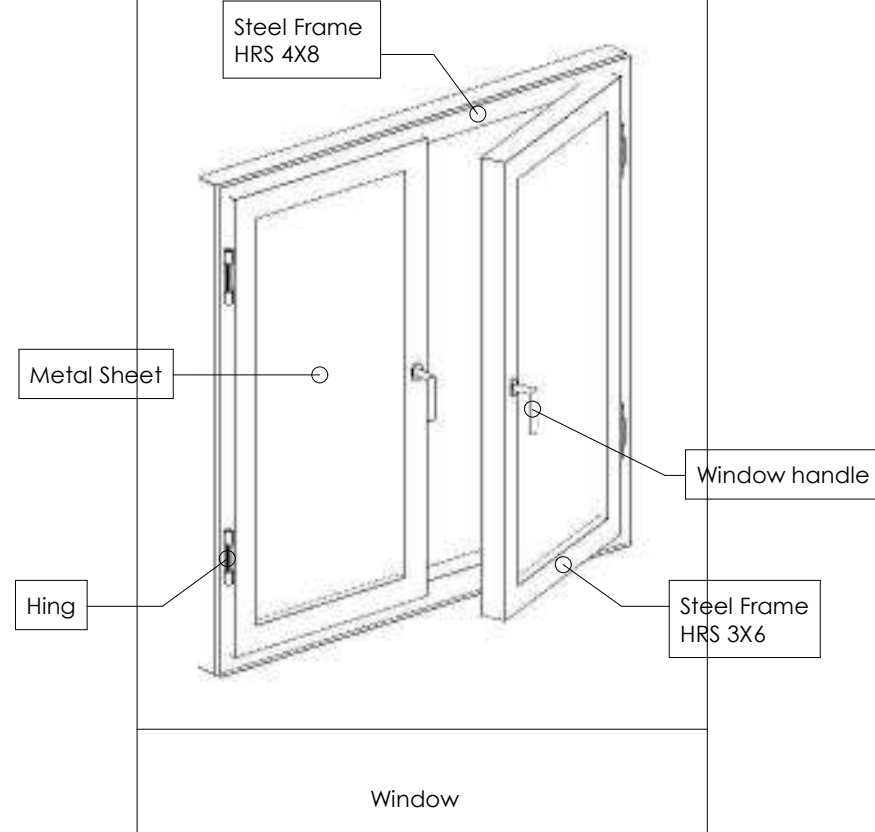
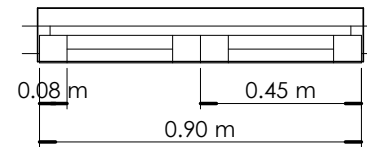
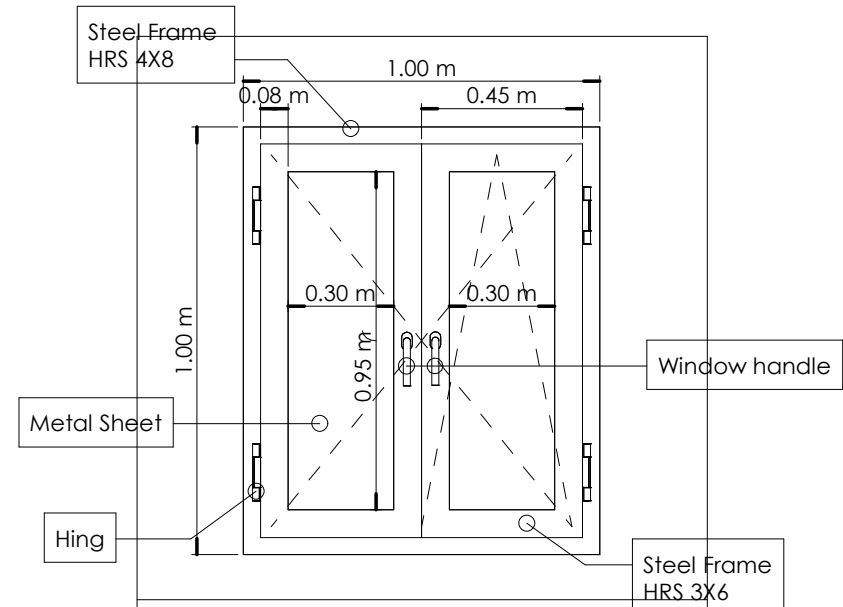
|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| C_12   | 1 : 50 |  |





**DOOR Details**

1 : 20



**WINDOWS Details**

1 : 15



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](mailto:DQTC.ENGINEERING@GMAIL.COM)



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 :

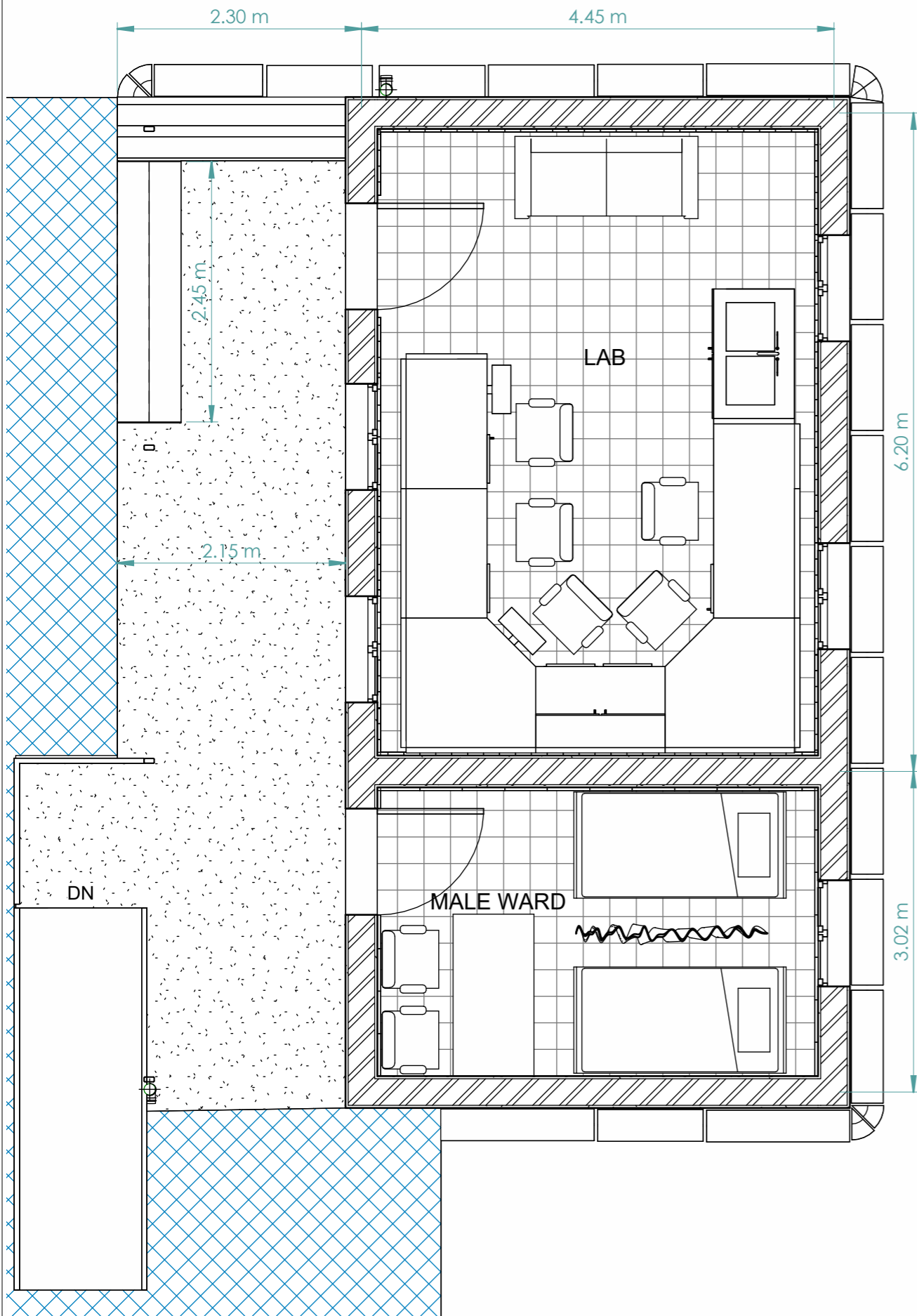
ENG.Designer  
CHECKED BY :  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :  
Door and Windows Details

DATE : January 2022

|                 |                         |  |
|-----------------|-------------------------|--|
| INDEX :<br>A_13 | SCALE :<br>As indicated |  |
|-----------------|-------------------------|--|





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

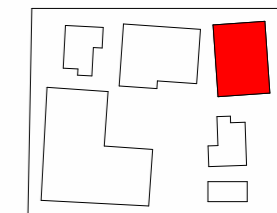
AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234  
 +249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



DOUBLE QTC 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 PLAN

DATE: January 2022

INDEX:

C\_14

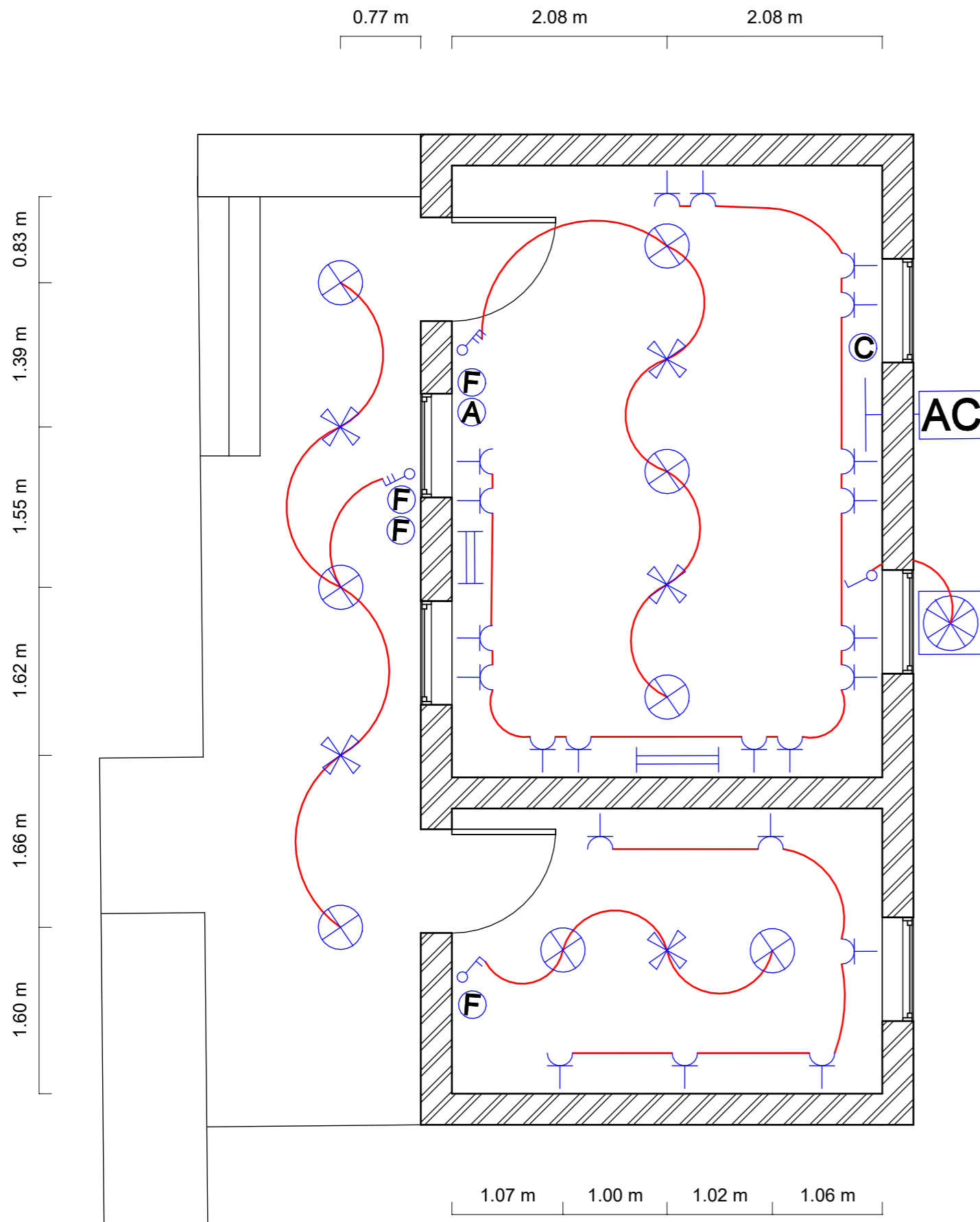
SCALE:

1 : 50



# BLOCK C FURNITURE

1 PLAN  
 1 : 50



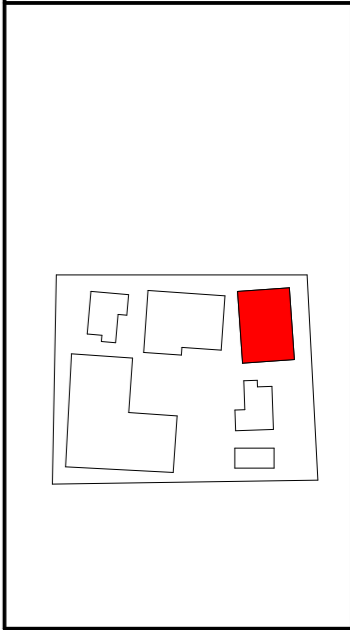
| DESCRIPTION |                          |
|-------------|--------------------------|
|             | SINGLE LIGHT SWITCH      |
|             | DOUBLE LIGHT SWITCH      |
|             | TRIPLE LIGHT SWITCH      |
|             | SOCKET OUTLET POINT      |
|             | AC SWITCH 45 AMP         |
|             | 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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Block 12 K-east Khartoum, SUDAN

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



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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

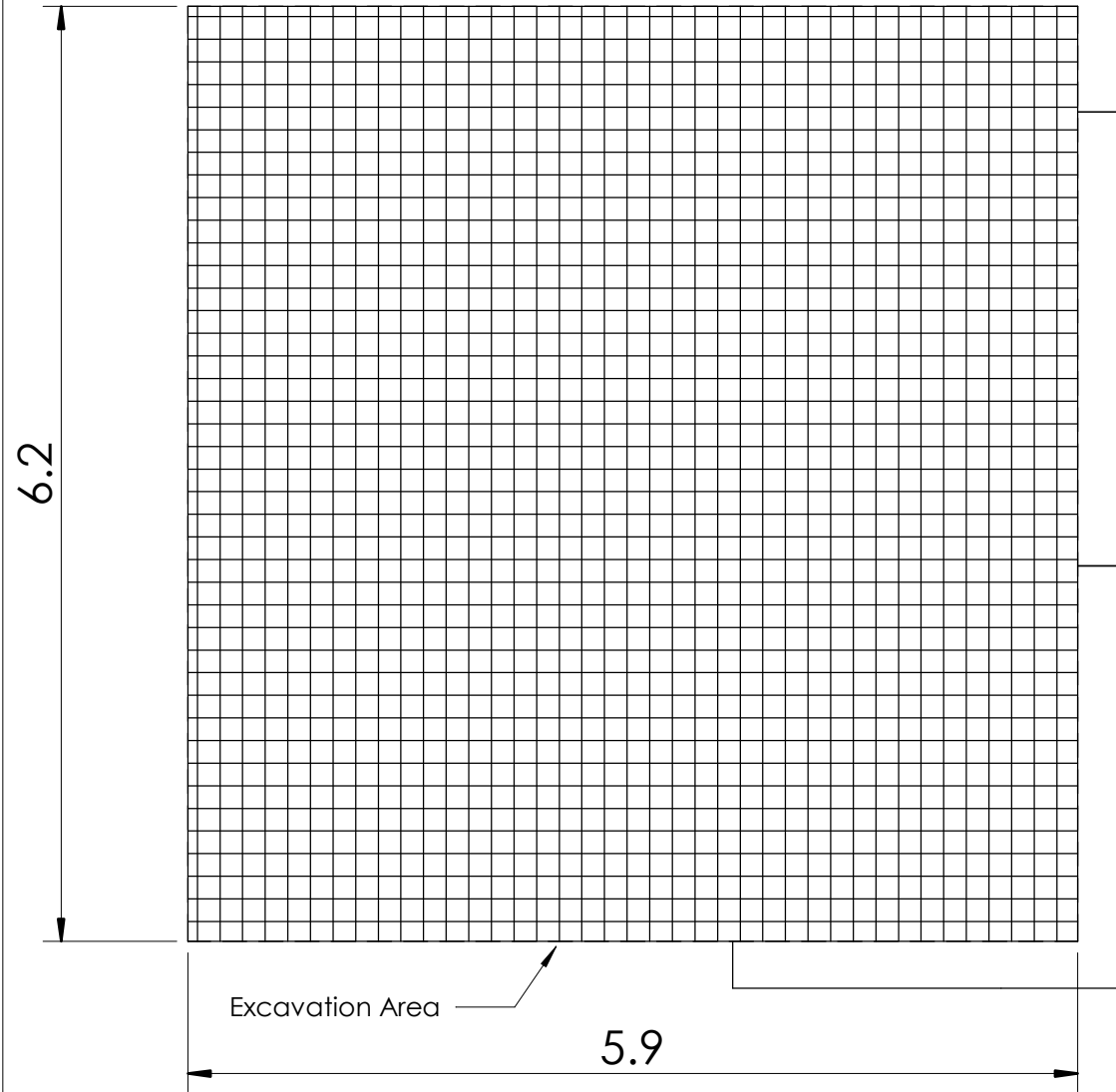
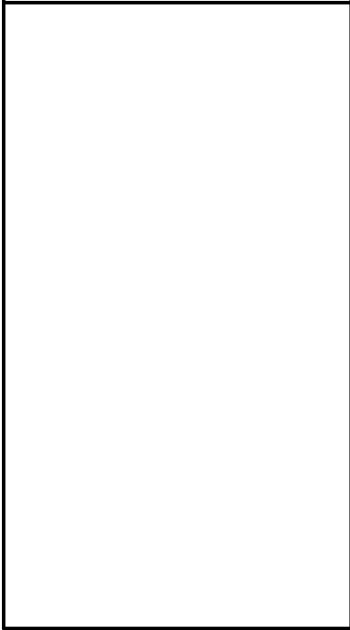
LOCATION:  
SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:  
ENG. MOHAMMED SALAH ALAMIR  
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

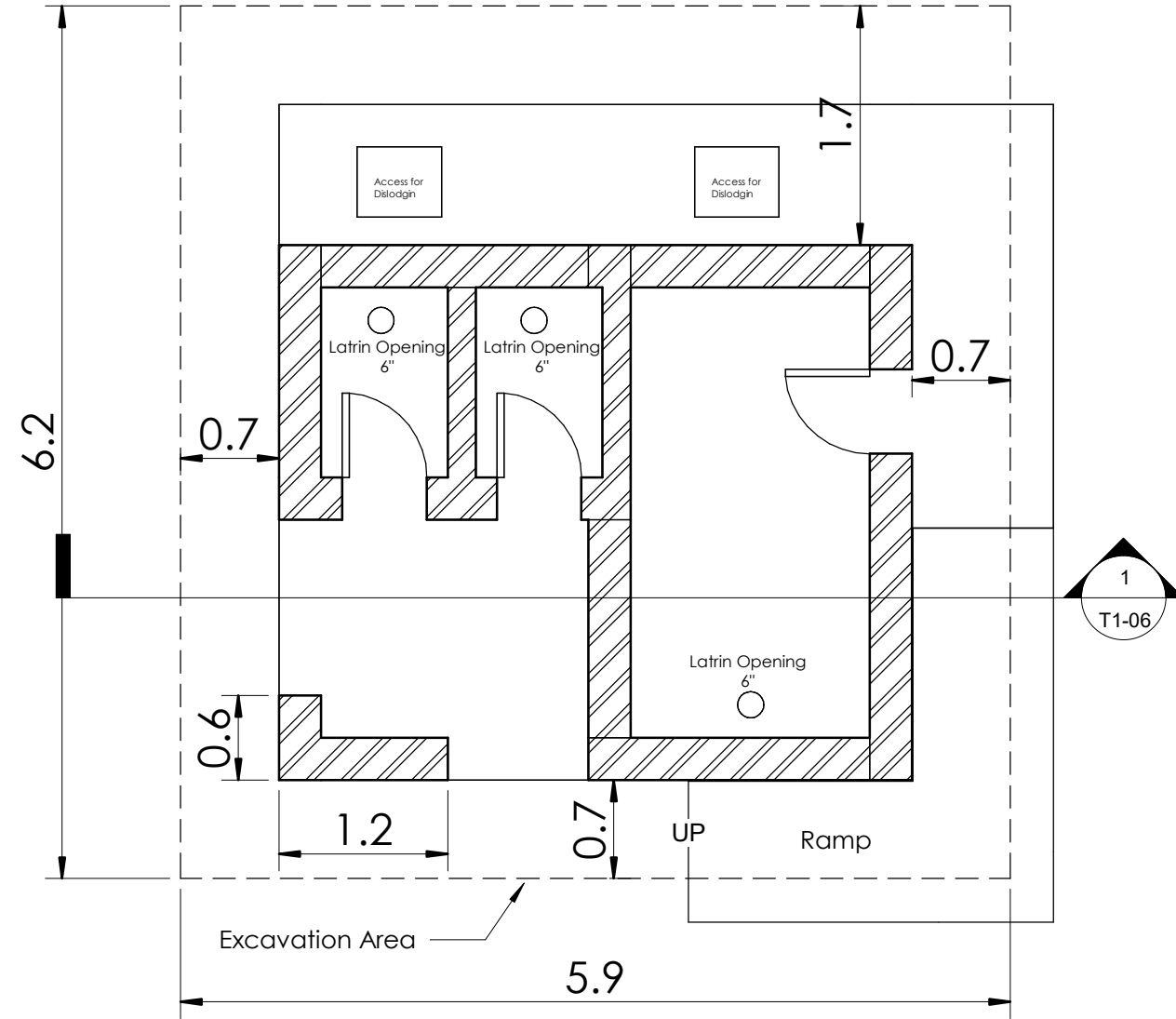
DRAWING TITLE:  
BLOCK C ELECTRICAL LAYOUT

DATE: JANUARY 2022

|                |                  |  |
|----------------|------------------|--|
| INDEX:<br>C_15 | SCALE:<br>1 : 50 |  |
|----------------|------------------|--|



**2** Excavation Area T1  
 1 : 50



**1** W.C Well T1  
 1 : 50

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:<br>T1-01 | SCALE:<br>1 : 50 |  |
|-----------------|------------------|--|



| 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)

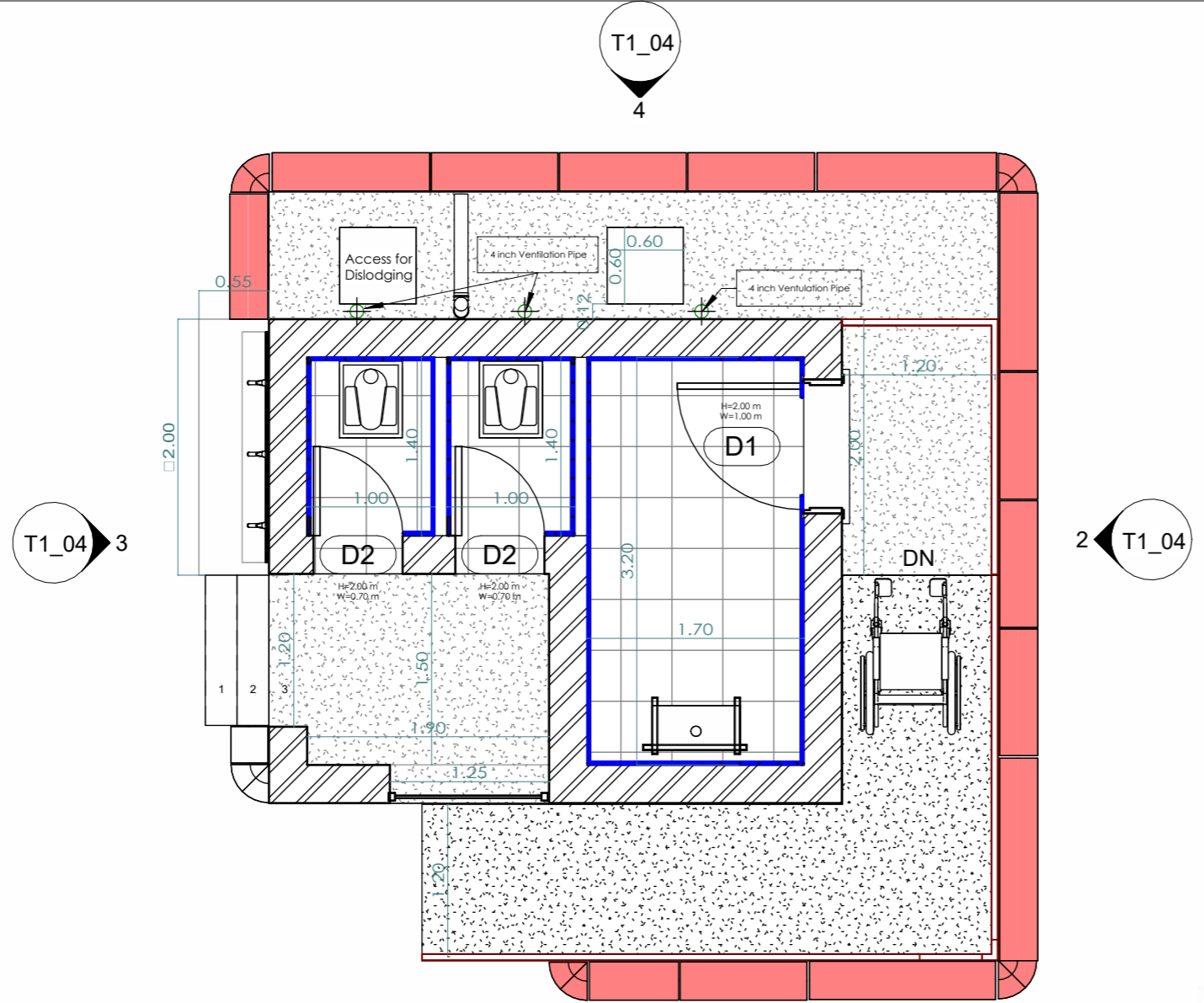
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

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

DRAWING TITLE:  
 Latrine Ground Floor Plan

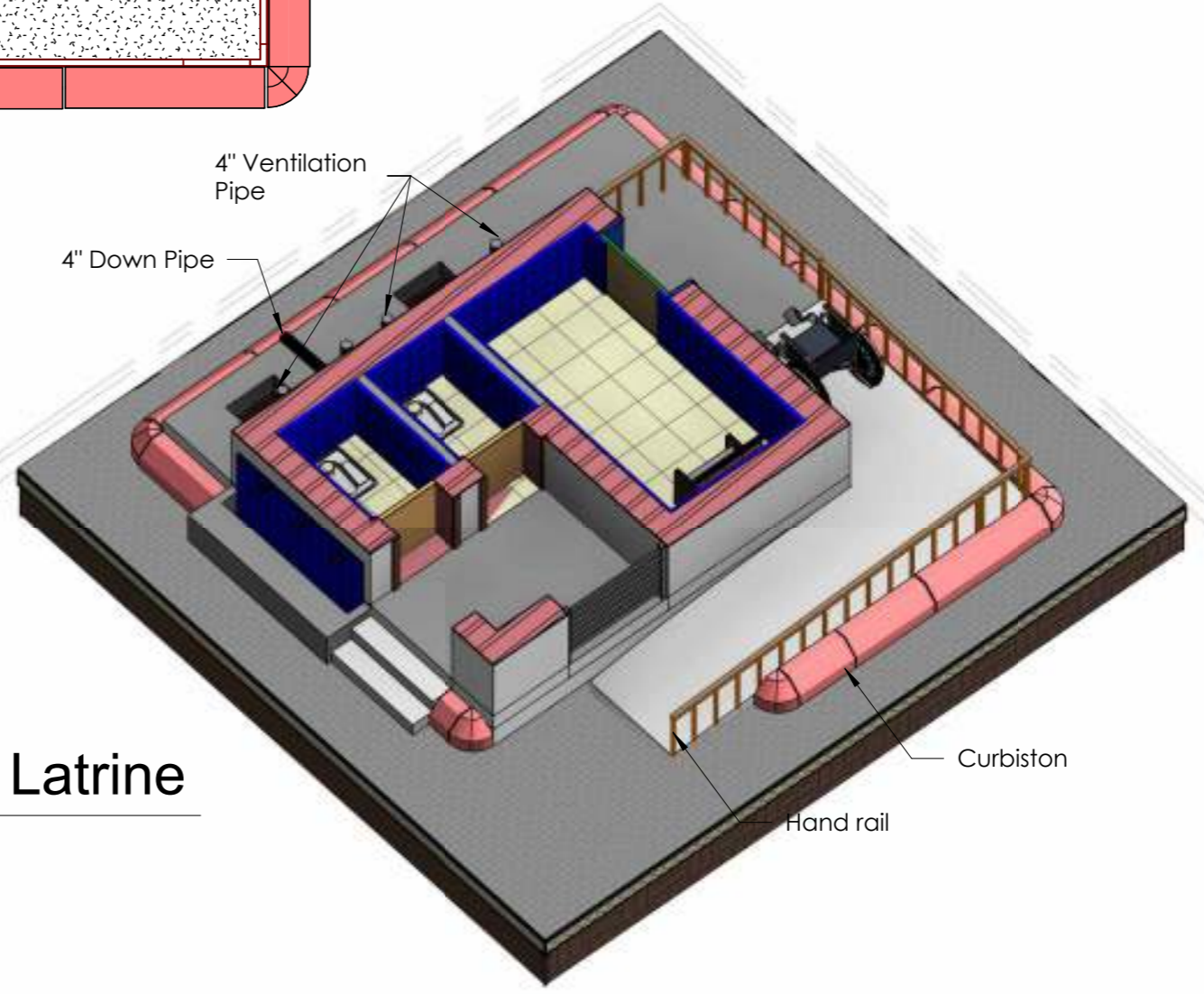
DATE: January 2022

|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| T1_02  | 1 : 50 |  |



1 **03-Latrine Floor**  
 1 : 50

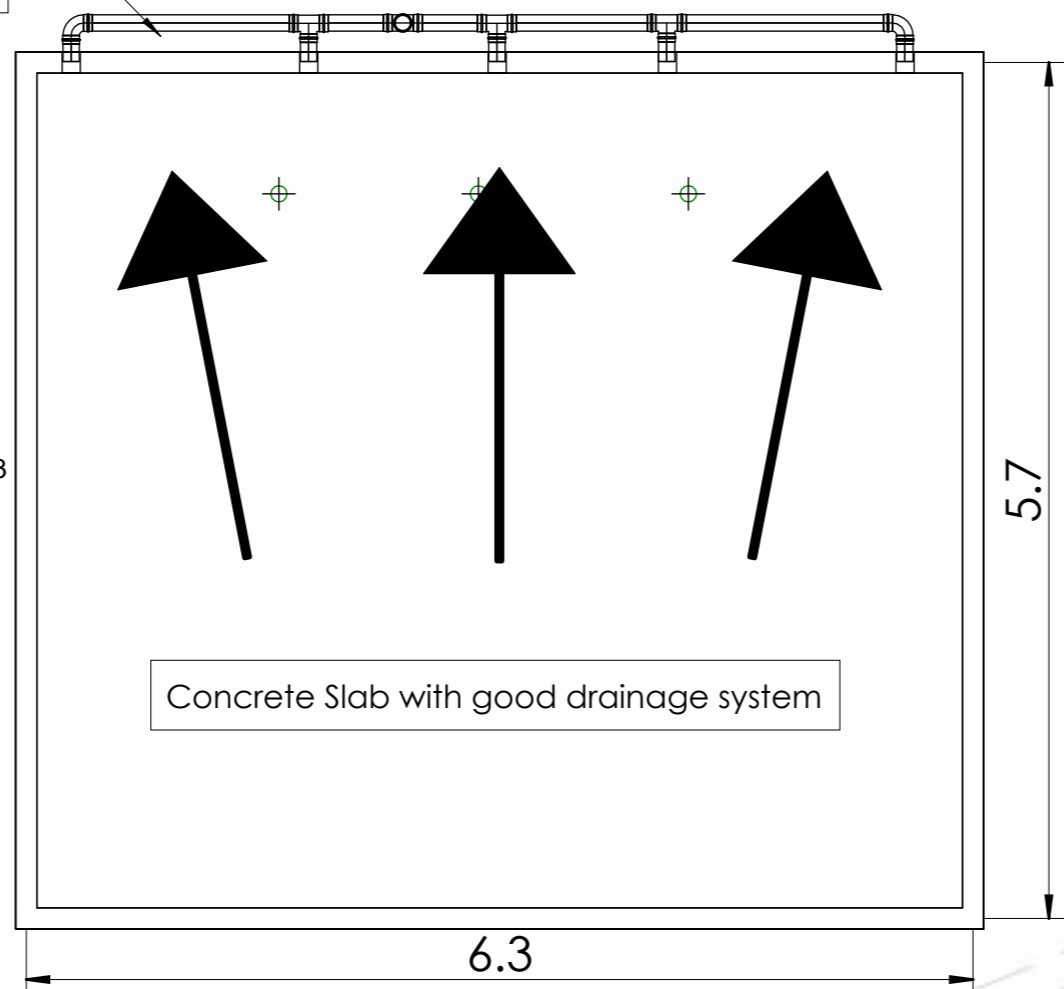
5  
 T1\_04



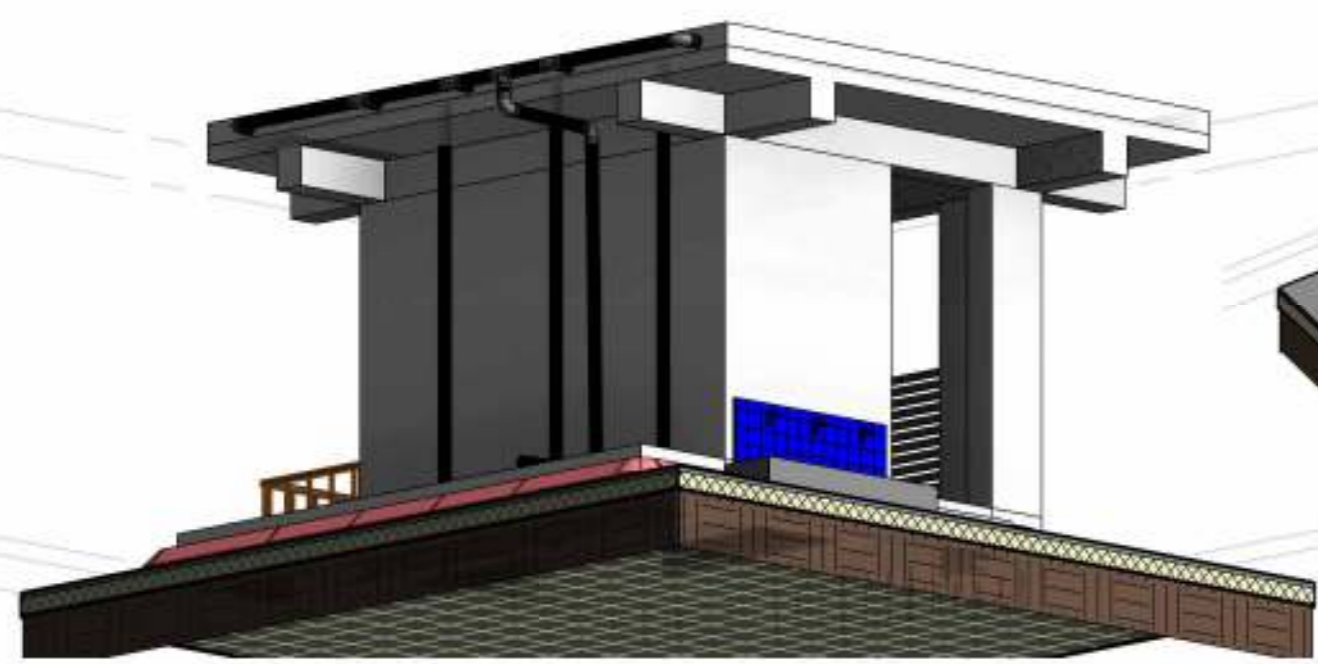
2 **3D Latrine**

4 inch pipe

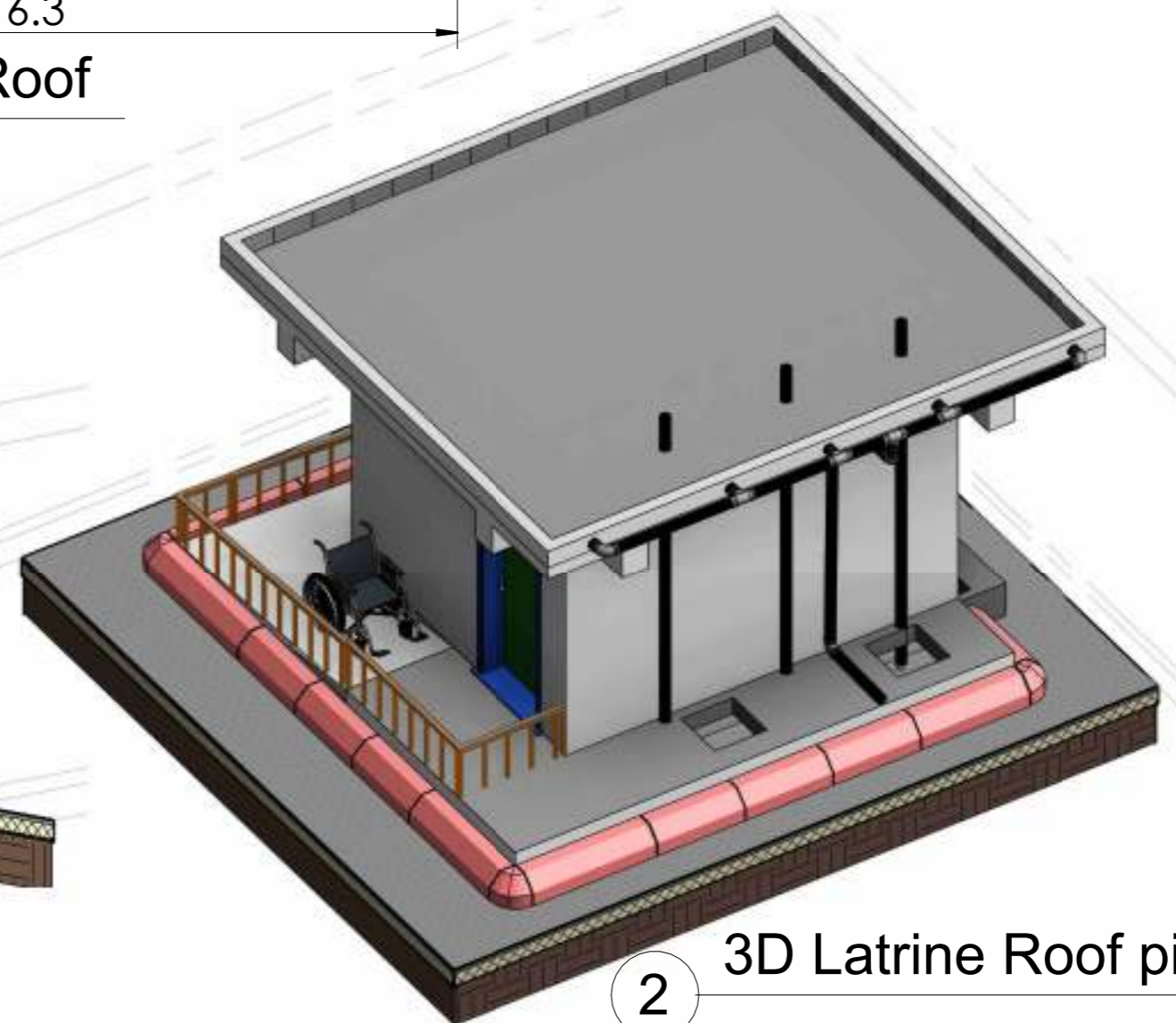
T1\_04 3



1 04-Latrine Roof  
1 : 50



3 3D Latrine Roof pipe Copy 1



2 3D Latrine Roof pipe



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TEL. +249925451234  
 +249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto: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:  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 Latrine Roof Plan

DATE: January 2022

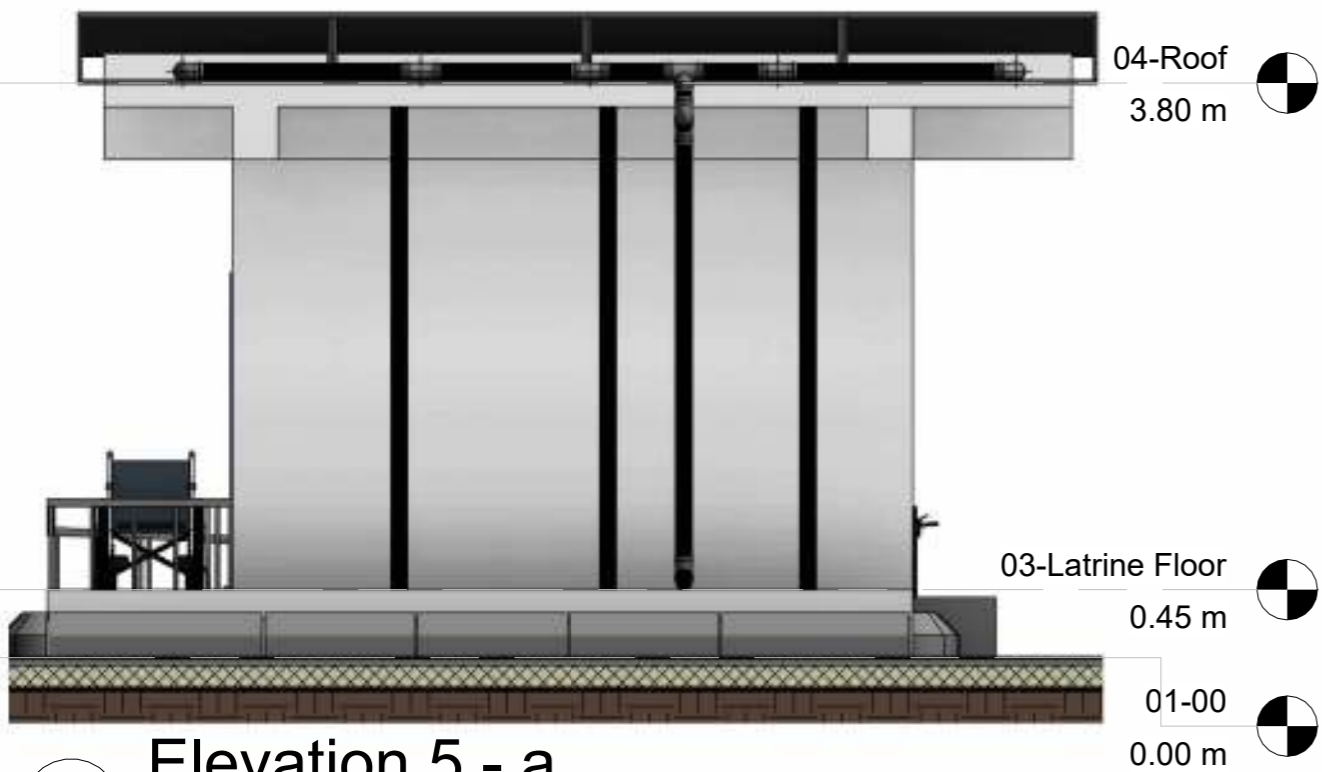
|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| T1_03  | 1 : 50 |  |



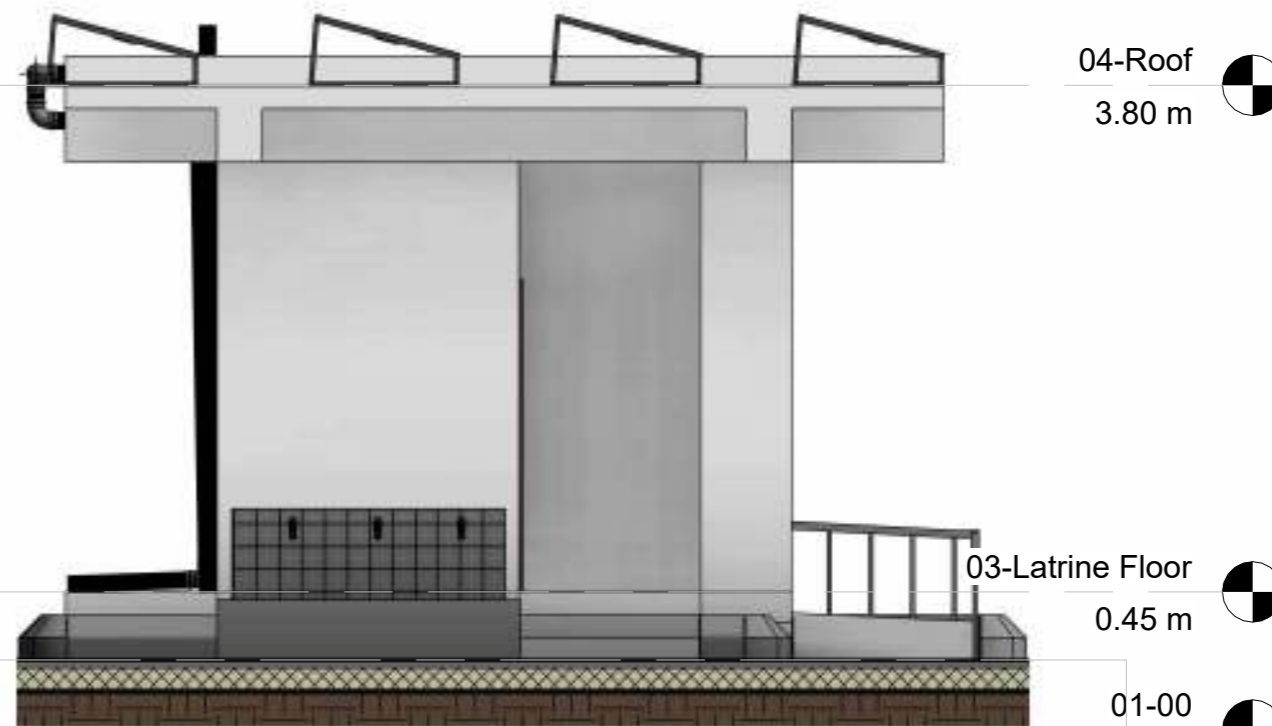
2 Elevation 3 - a  
1 : 50



5 Elevation 2 - a  
1 : 50



4 Elevation 5 - a  
1 : 50



3 Elevation 4 - a  
1 : 50



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TEL. +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

LOCATION:  
SOUTH DARFUR NORTHERN NYALA

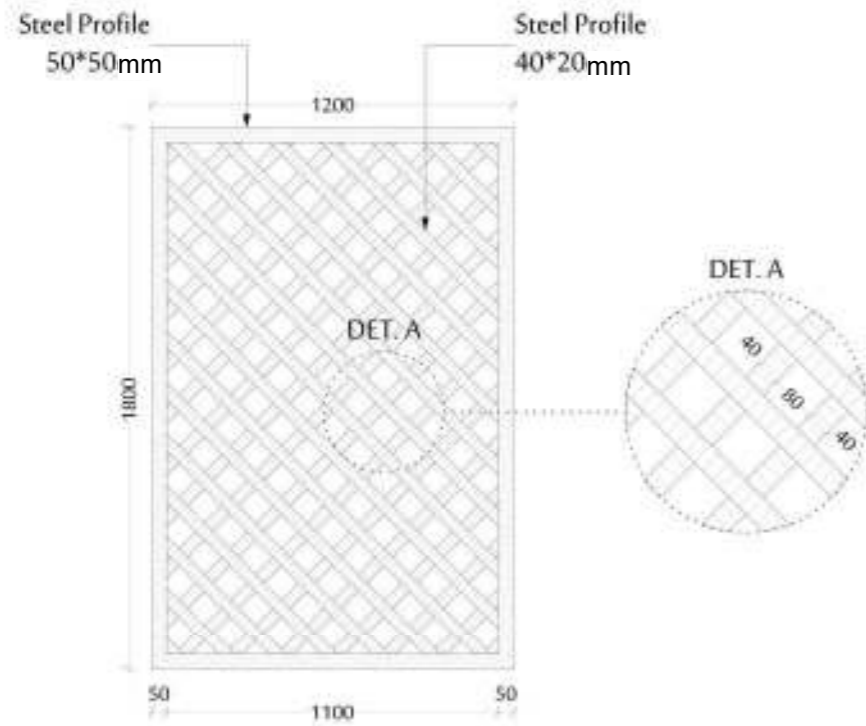
STRUCTURAL ENGINEER:  
ENG.Designer

CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

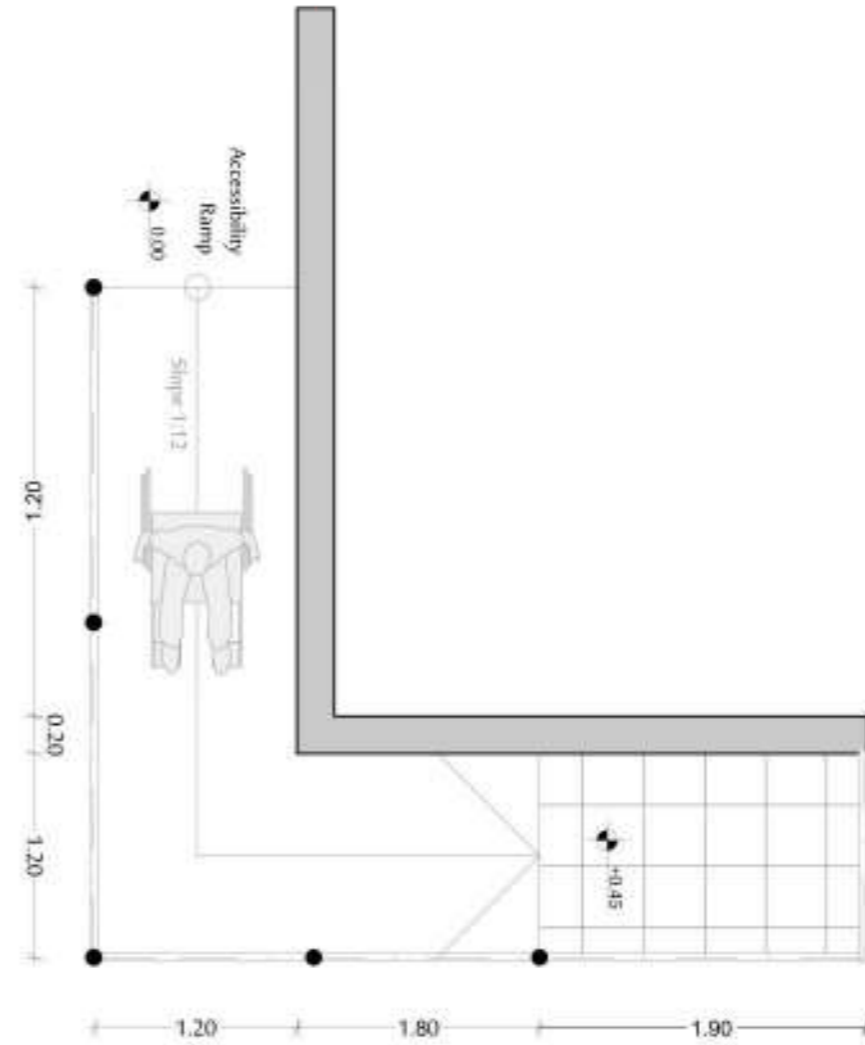
DRAWING TITLE:  
Latrine Elevations

DATE: January 2022

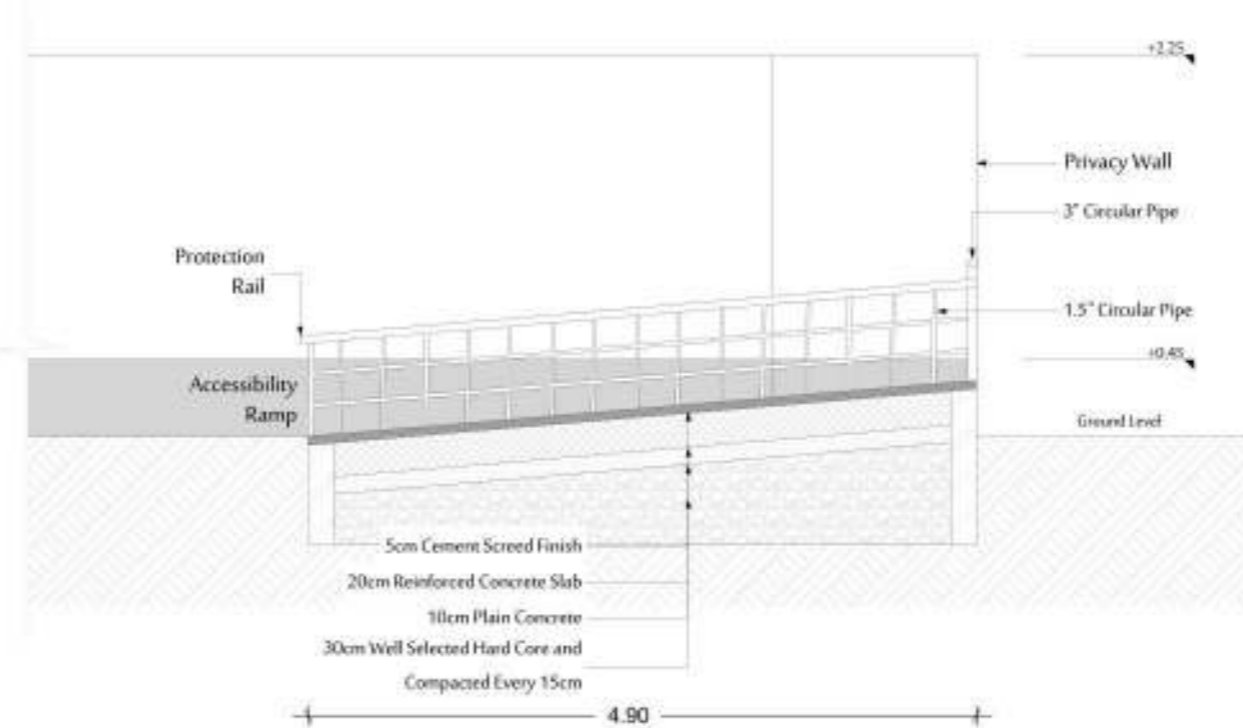
|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| T1_04  | 1 : 50 |  |



**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 Nyala

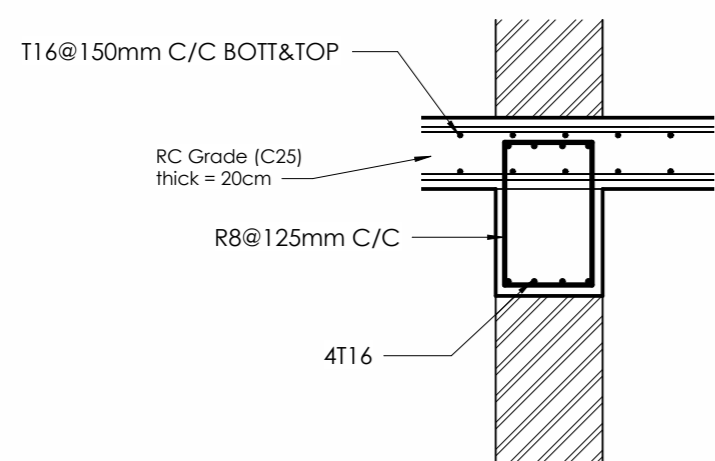
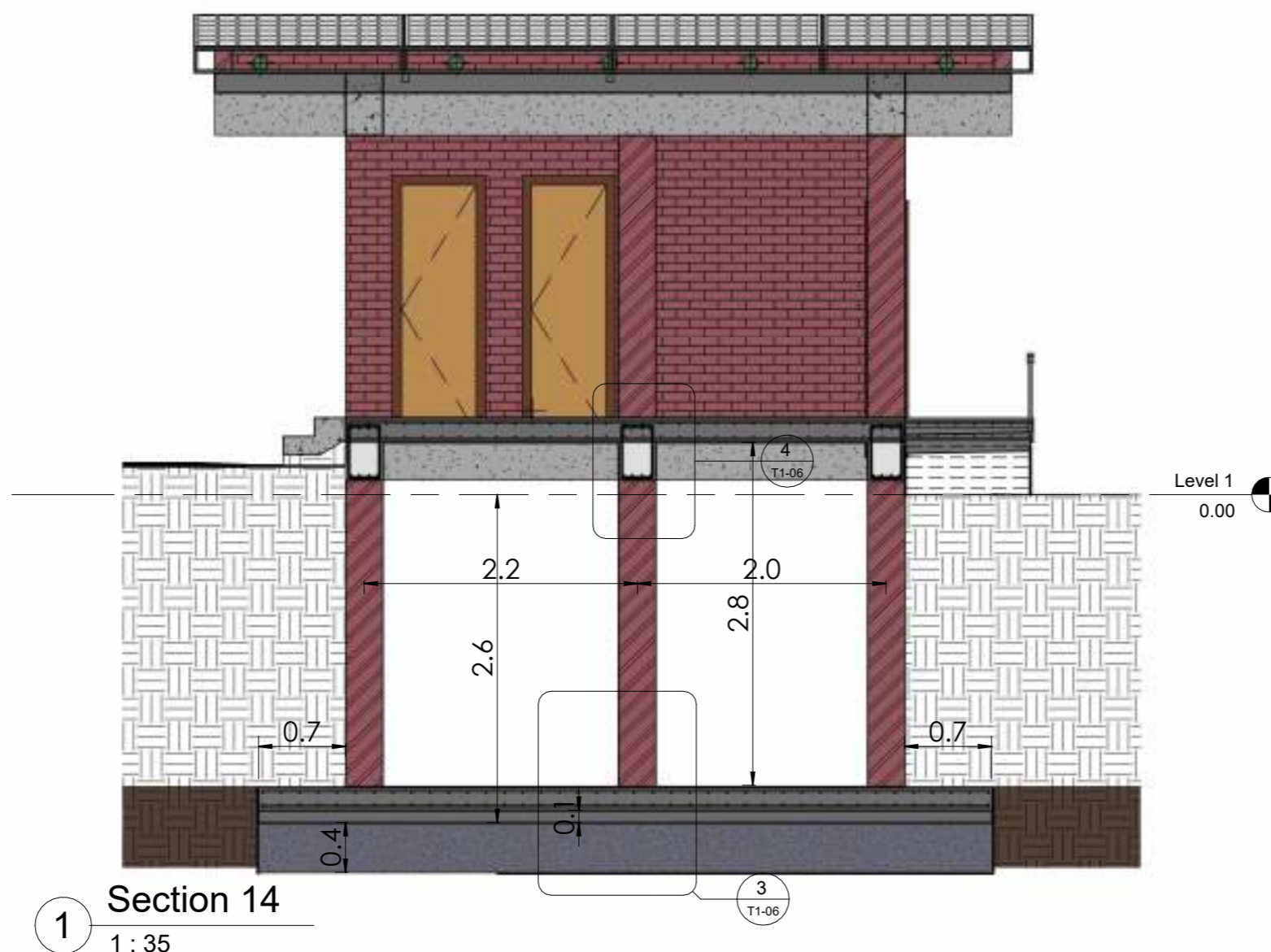
ARCHITECTURAL ENGINEER:  
 ENG. Designer  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 Details.

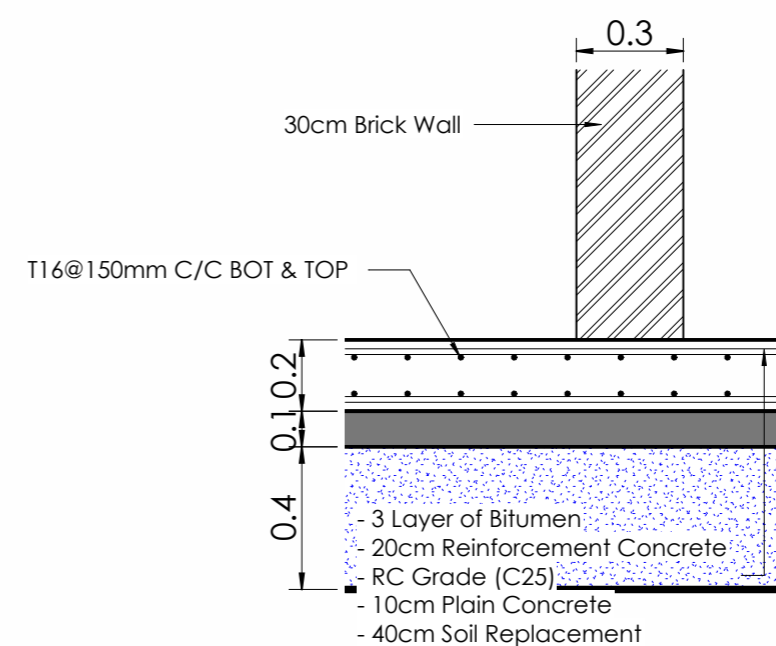
DATE: January 2022

INDEX: T1\_05  
 SCALE: 1 : 100





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 OTASH (NY06)

LOCATION :  
SOUTH DARFUR  
Northern Nyala

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

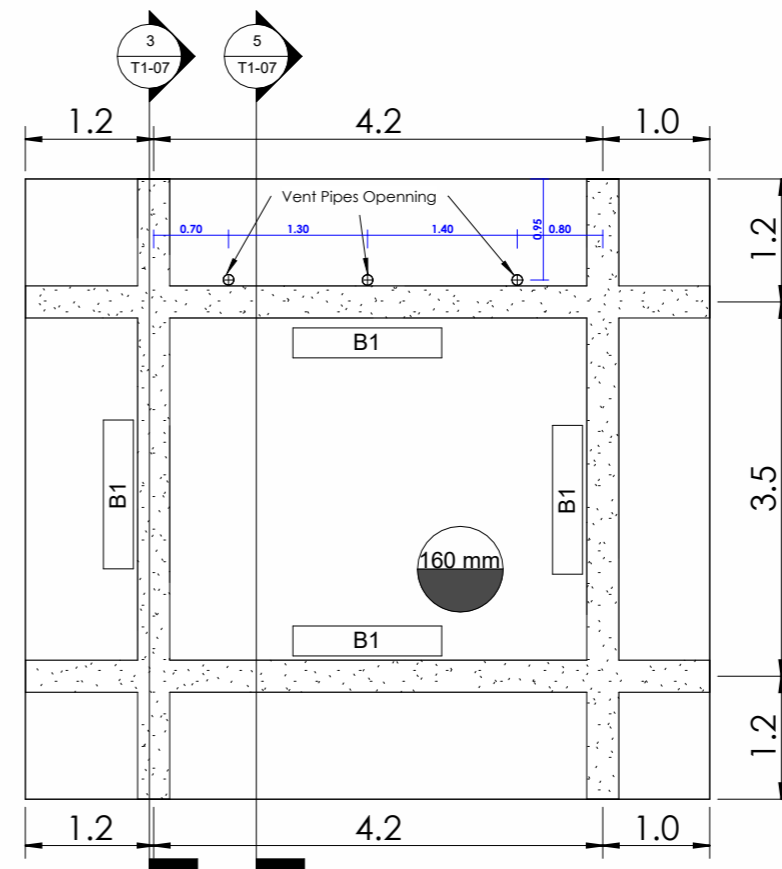
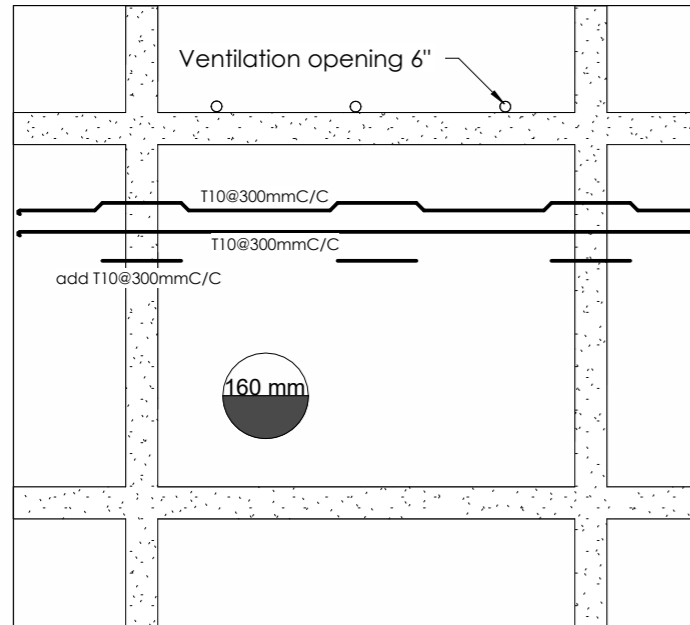
DRAWING TITLE :  
Well Details

DATE: January 2022

INDEX: T1-06  
SCALE: As indicated





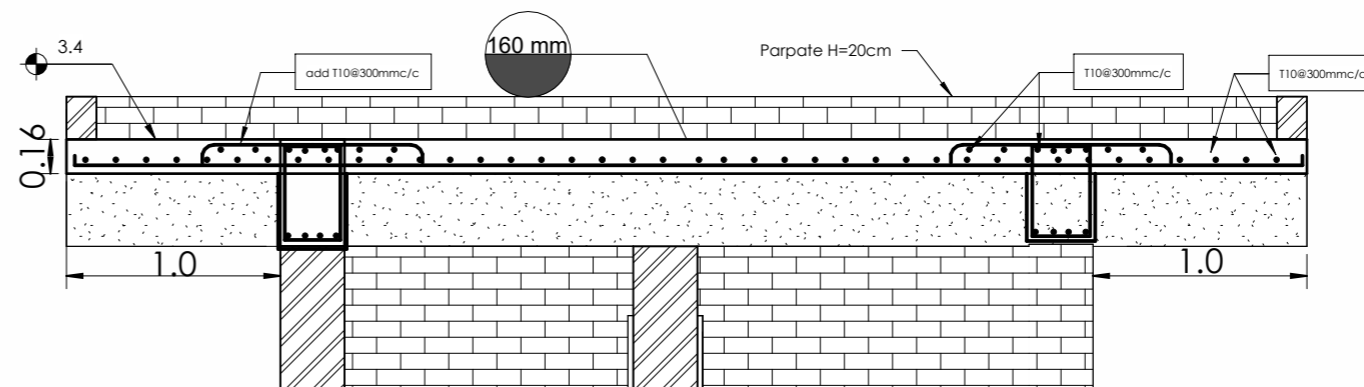


2 W.C Roof Reinforcement  
1 : 50

1 W.C Roof  
1 : 50



4 W.C



5 Section 1 Slab Reinf.  
1 : 25



3 Section 14 Roof Beam  
1 : 25



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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: DGTC.ENGINEERING@GMAIL.COM



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

PROJECT TITLE :  
HEALTH CENTER OF OTASH (NY06)

LOCATION :  
SOUTH DARFUR  
Northern Nyala

ARCHITECT :  
ENG.Rabab Azhari Fadle Elseed  
STRUCTURAL ENGINEER :

ENG.IBRAHIM MOHAMMED IBRAHIM

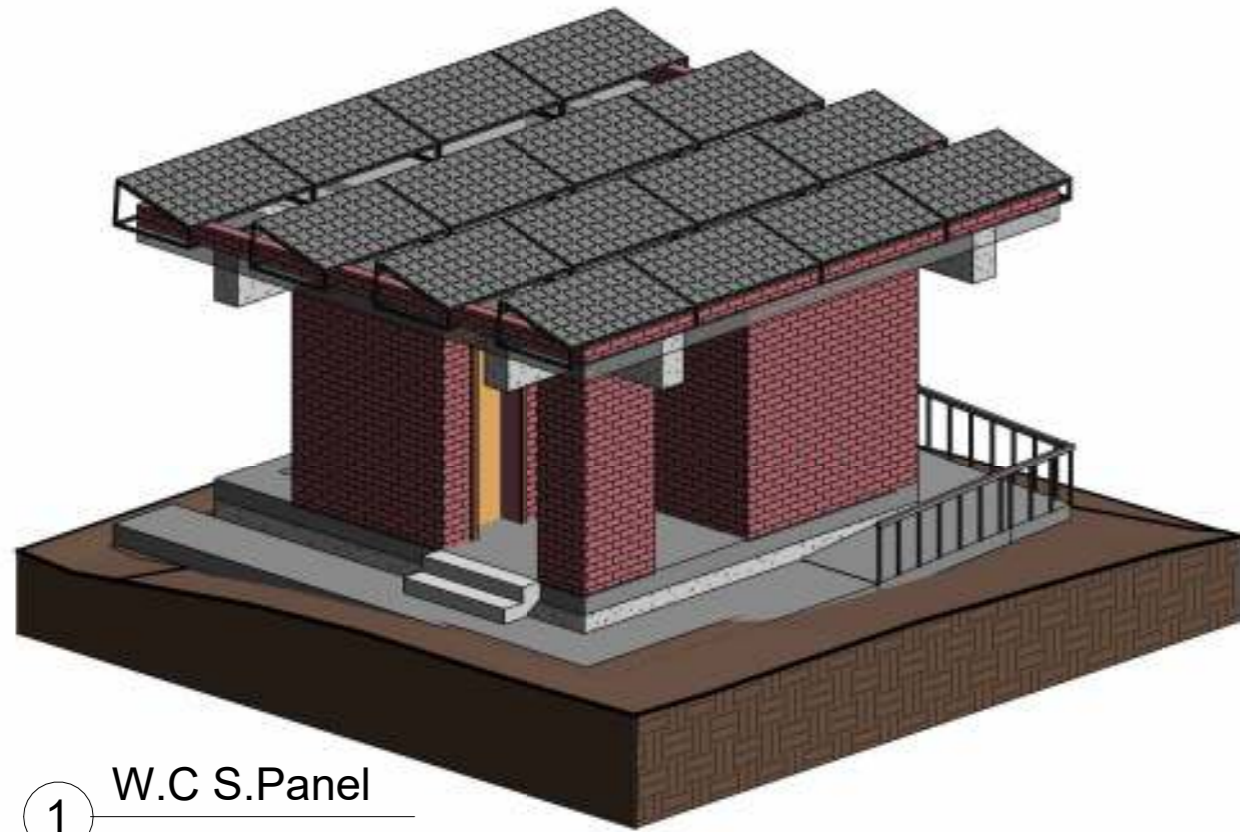
CHECKED BY :  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :  
W.C Roof Reinforcement

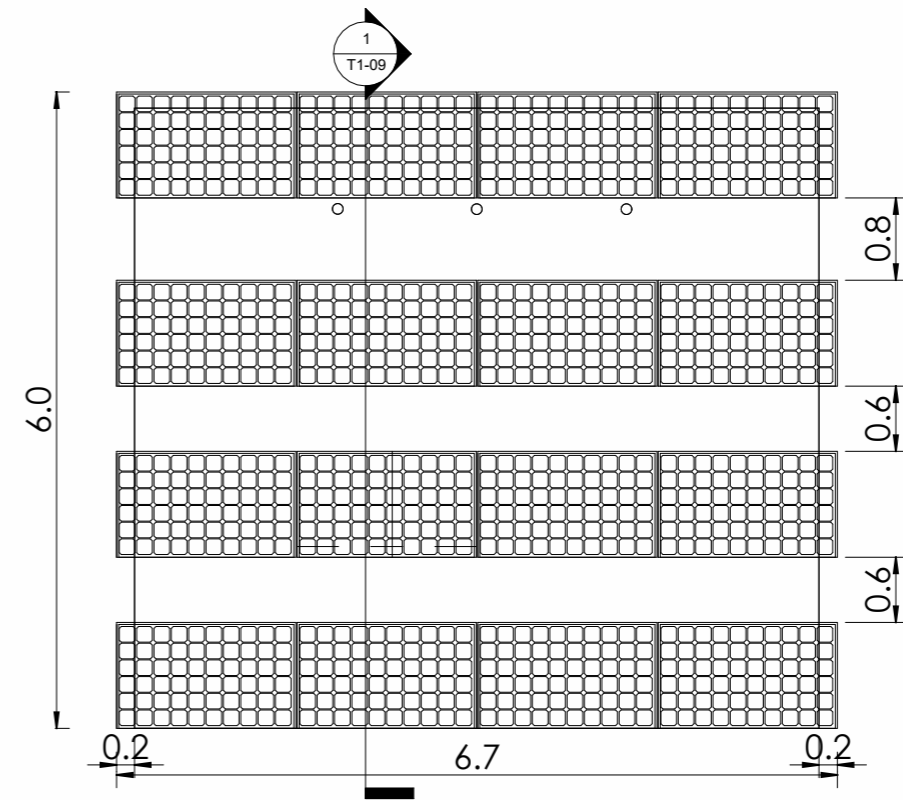
DATE: January 2022

INDEX : T1-07  
SCALE : As indicated

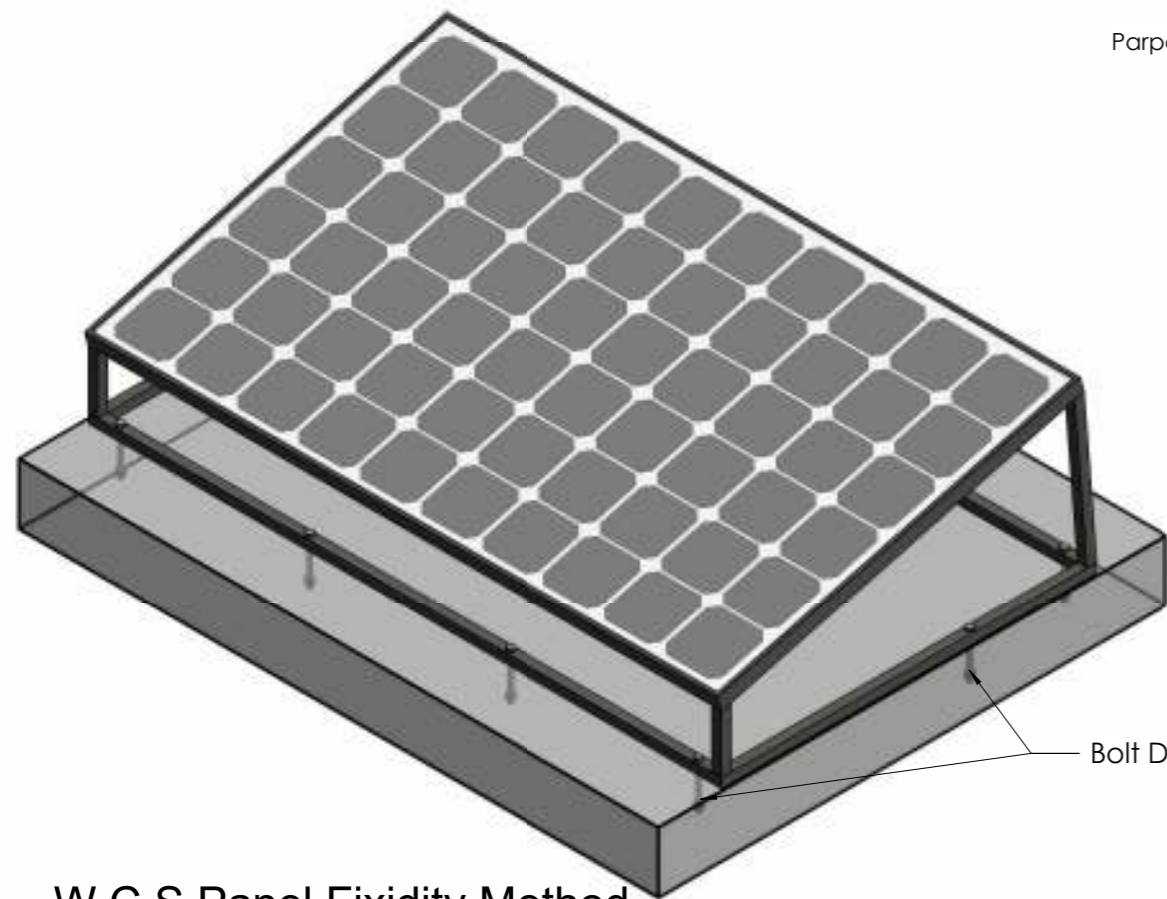




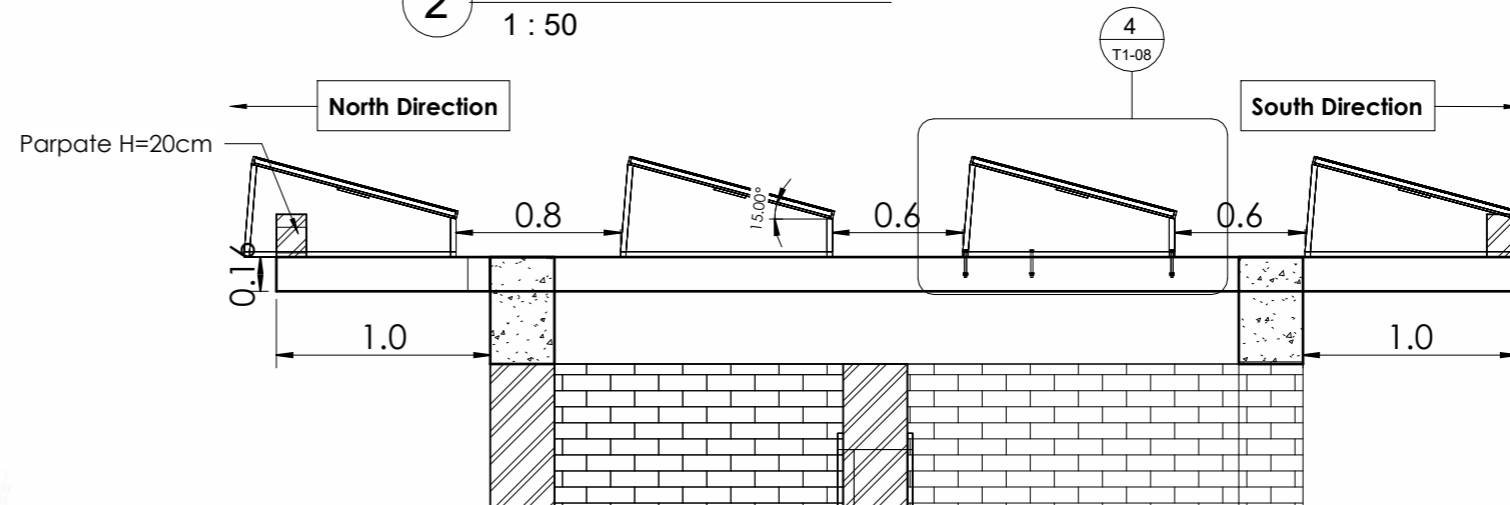
1 W.C S.Panel



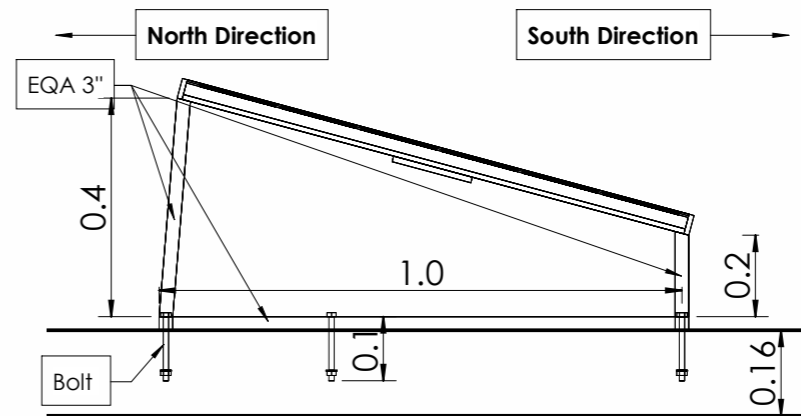
2 W.C Roof S.Panel  
1 : 50



5 W.C S.Panel Fixidity Method



3 Section 1 S.Panel Detaile  
1 : 25



4 S.Panel Detaile - Callout 1  
1 : 10

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



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



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

PROJECT TITLE :  
HEALTH CENTER OF OTASH (NY06)

LOCATION :  
SOUTH DARFUR  
Northern Nyala

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

DRAWING TITLE :  
W.C Solar Panel

DATE: January 2022

INDEX: T1-08  
SCALE: As indicated



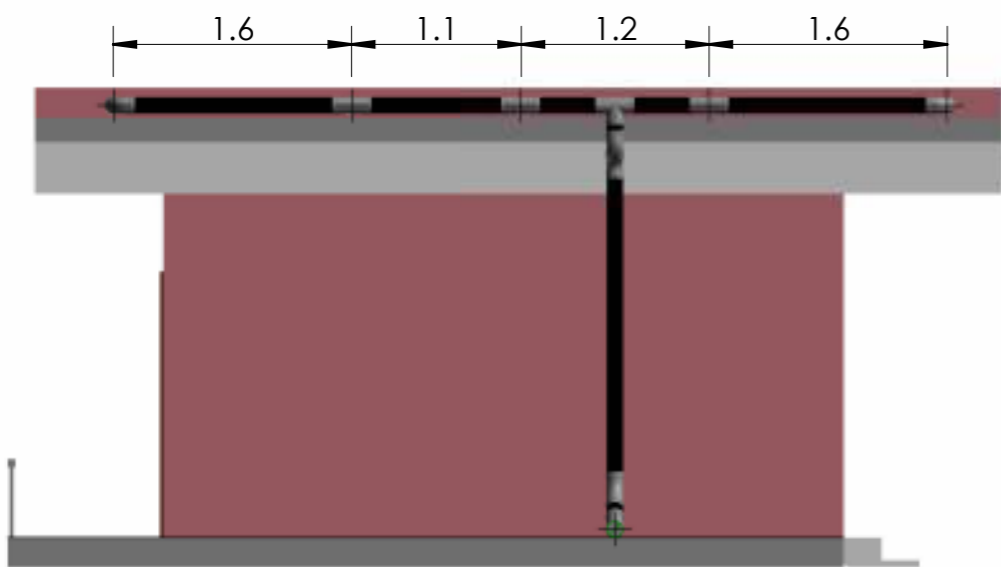
Parpate H=20cm

insulating layer (Kafga)  
Slope 1:6

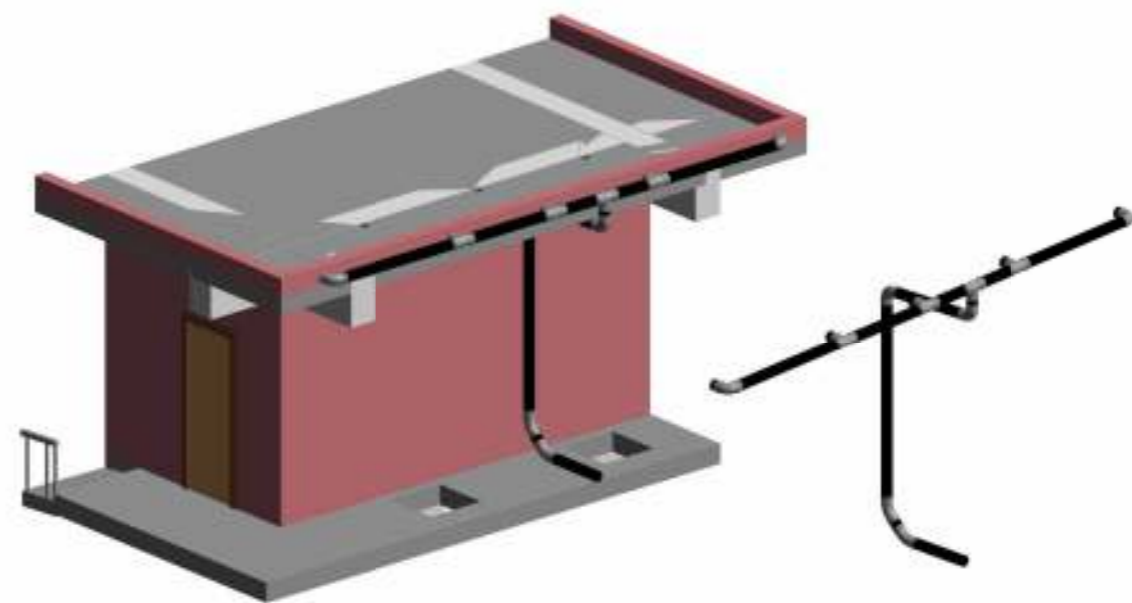
1.0

Down Pipe (PVC 4")

Section 1 (rainwater down pipe)  
1 : 25



Elevation 1 - a  
1 : 50



W.C (rainwater down pipe)



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AL-Amarat Mohamed Najeeb Street, Khartoum

TEL: +249925451234  
+249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto: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

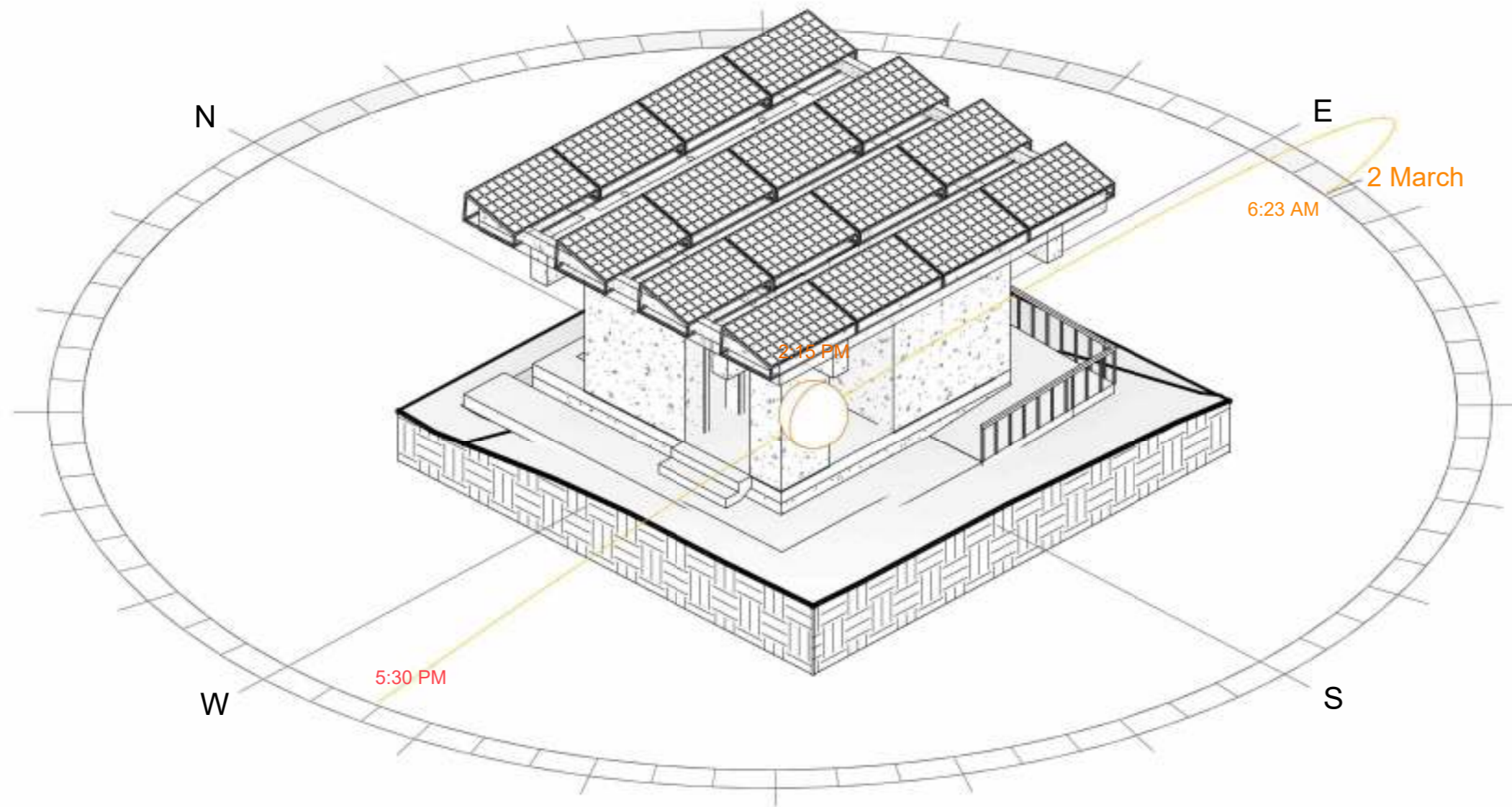
INDEX:

T1-09

SCALE:

As indicated





1 Sun Path



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 Block 12 K-east Khartoum, SUDAN

AL-Amarat Mohamed Najeeb Street, Khartoum

TEL. +249925451234  
 +249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



DOUBLE QTC ENGINEERING

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

PROJECT TITLE:  
 HELTH CENTER OF OTASH (NY06)

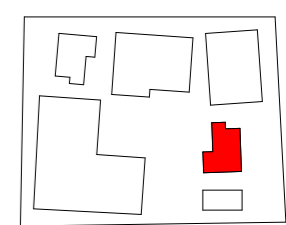
LOCATION:  
 SOUTH DARFUR  
 Northern Nyala

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

DRAWING TITLE:  
 Sun Path 3D View

DATE: January 2022

|                 |        |  |
|-----------------|--------|--|
| INDEX:<br>T1-10 | SCALE: |  |
|-----------------|--------|--|



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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

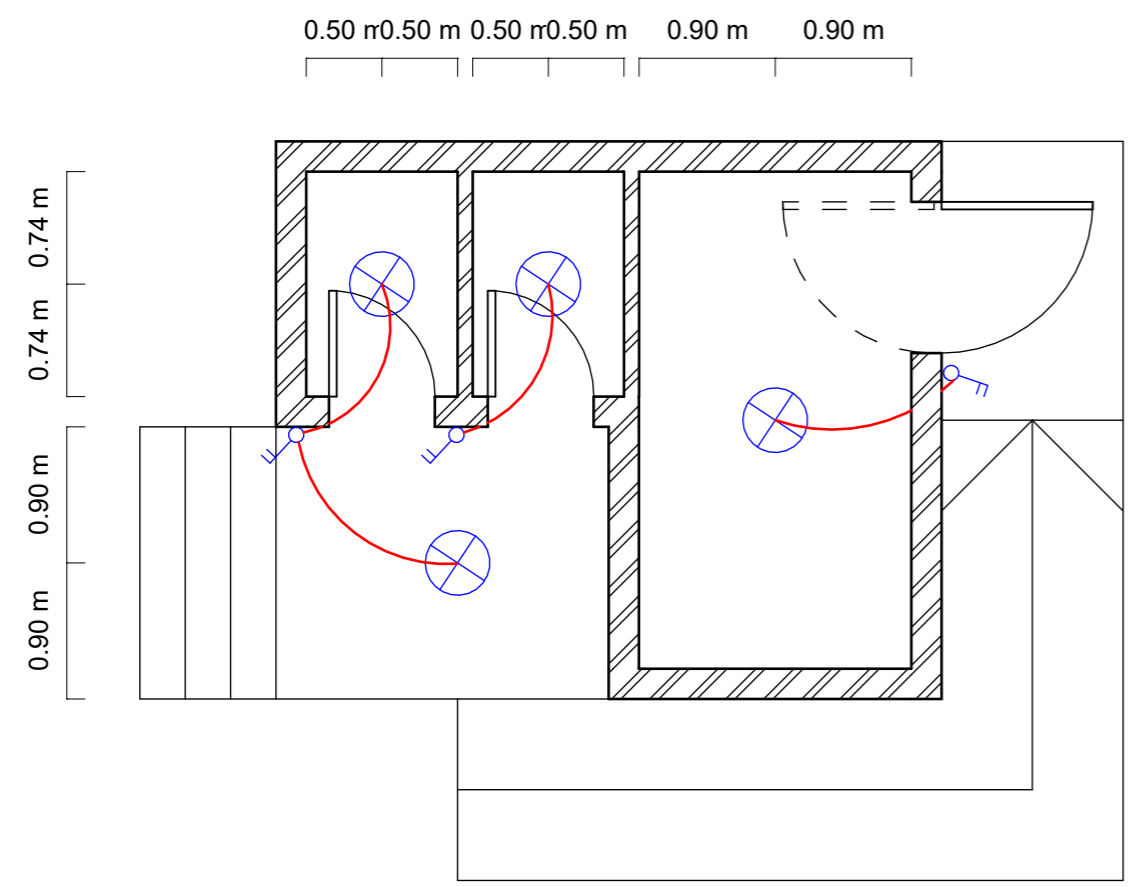
LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

ELECTRICAL ENGINEER:  
 ENG.MOHAMMED SALAH ALAMIR  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 BLOCK T1 ELECTRICAL LAYOUT

DATE: JANUARY 2022

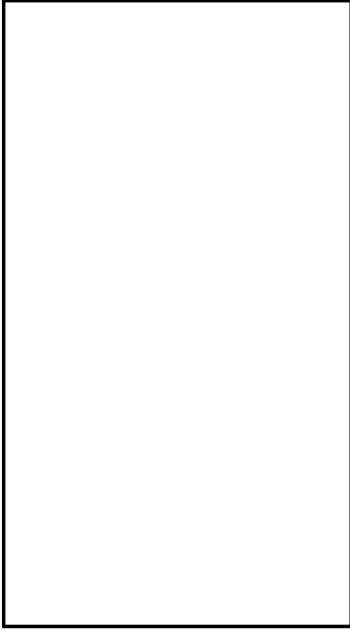
|                 |                  |  |
|-----------------|------------------|--|
| INDEX:<br>T1_11 | SCALE:<br>1 : 50 |  |
|-----------------|------------------|--|



1.64 m  
 1.64 m

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

**1** MALE W.C  
 1 : 50



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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

LOCATION:  
 SOUTH DARFUR  
 Northern Nyala

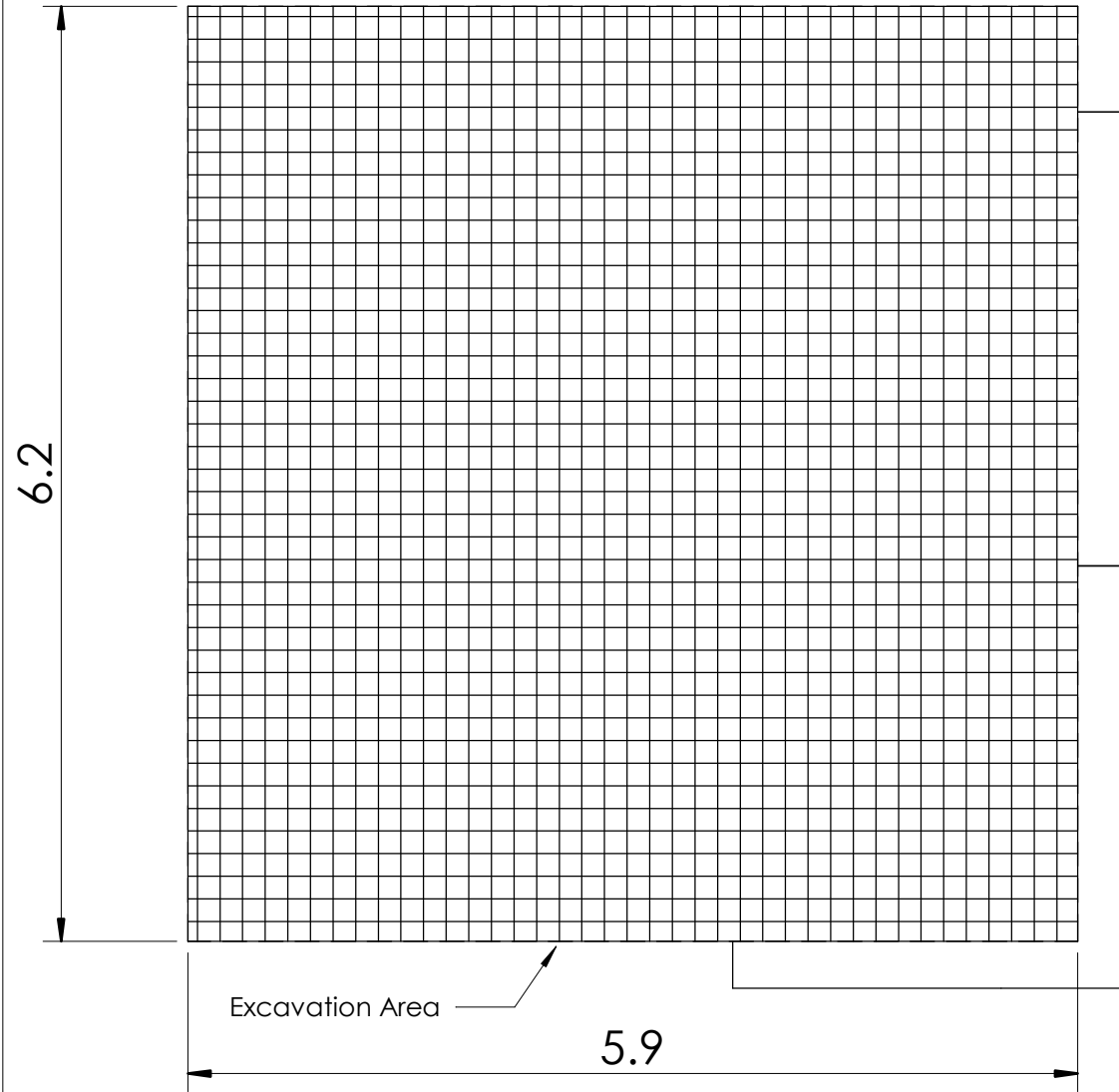
STRUCTURAL ENGINEER:  
 ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

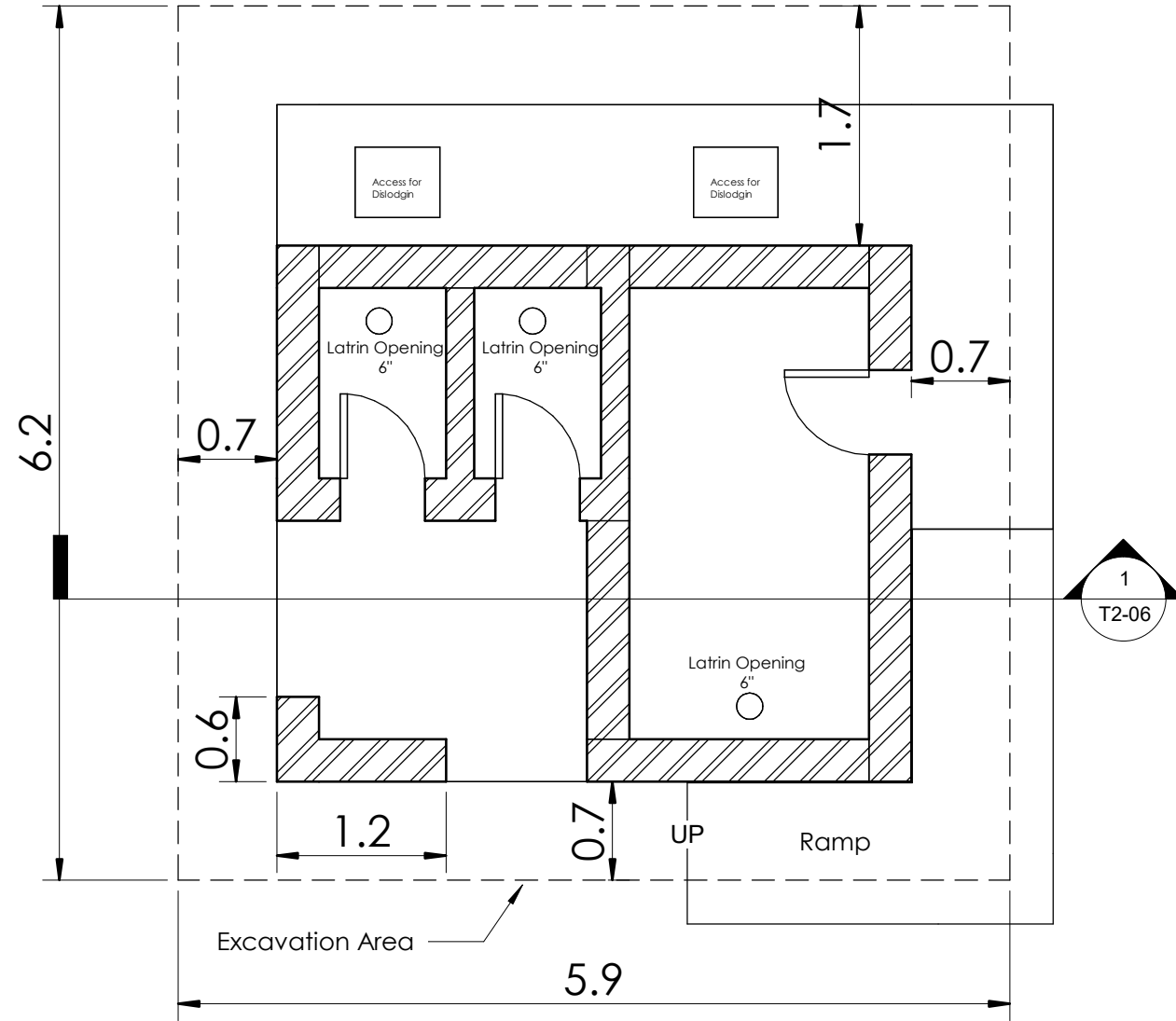
DRAWING TITLE:  
 Latrine Under Ground - Excavation Plan.

DATE: January 2022

|        |        |  |
|--------|--------|--|
| INDEX: | SCALE: |  |
| T2-01  | 1 : 50 |  |



**2** Excavation Area T2  
 1 : 50



**1** W.C Well T2  
 1 : 50



**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 :**

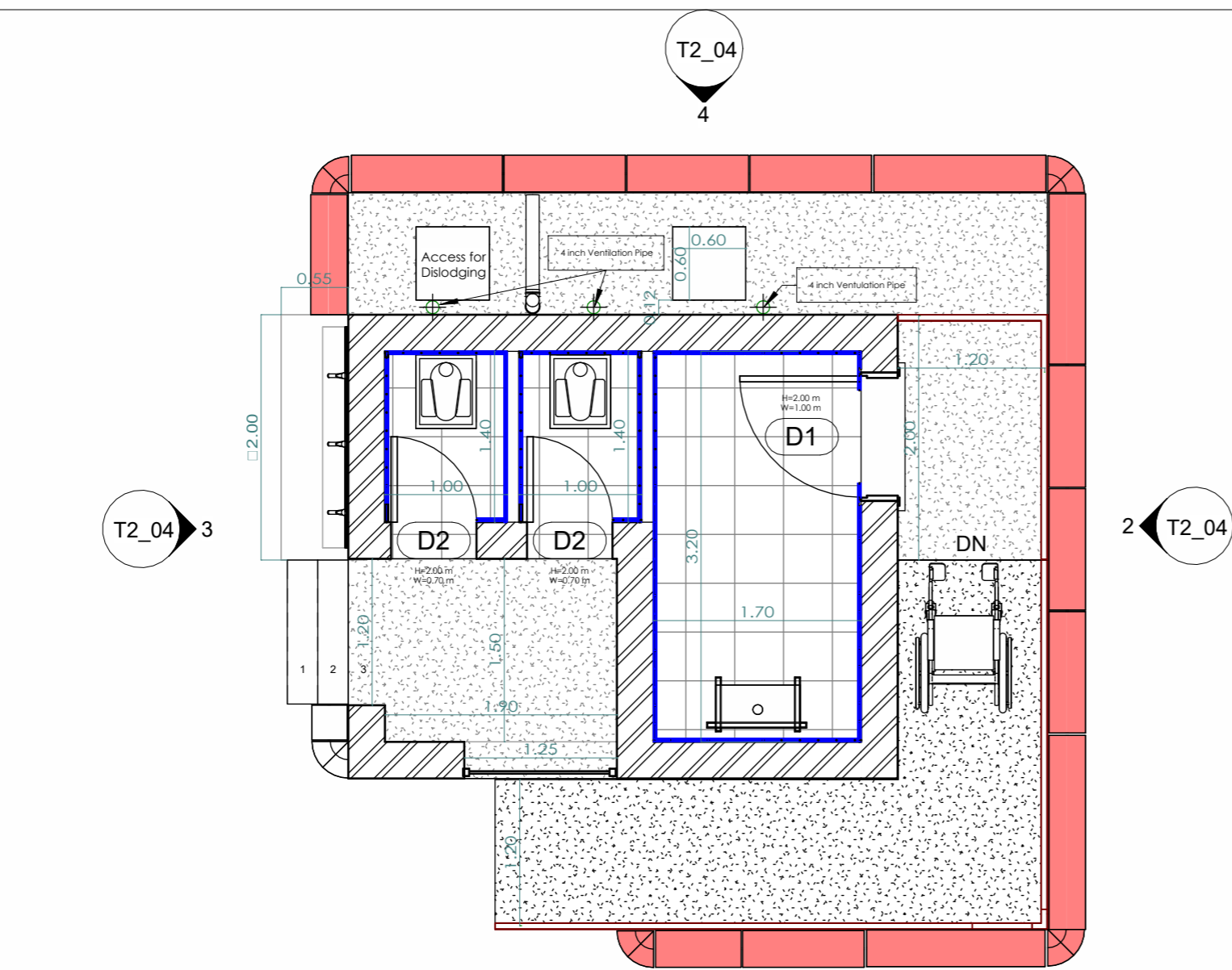
ENG. AMRAN MOHAMMED OTHMAN

**DRAWING TITLE :**

Latrine Ground Floor Plan

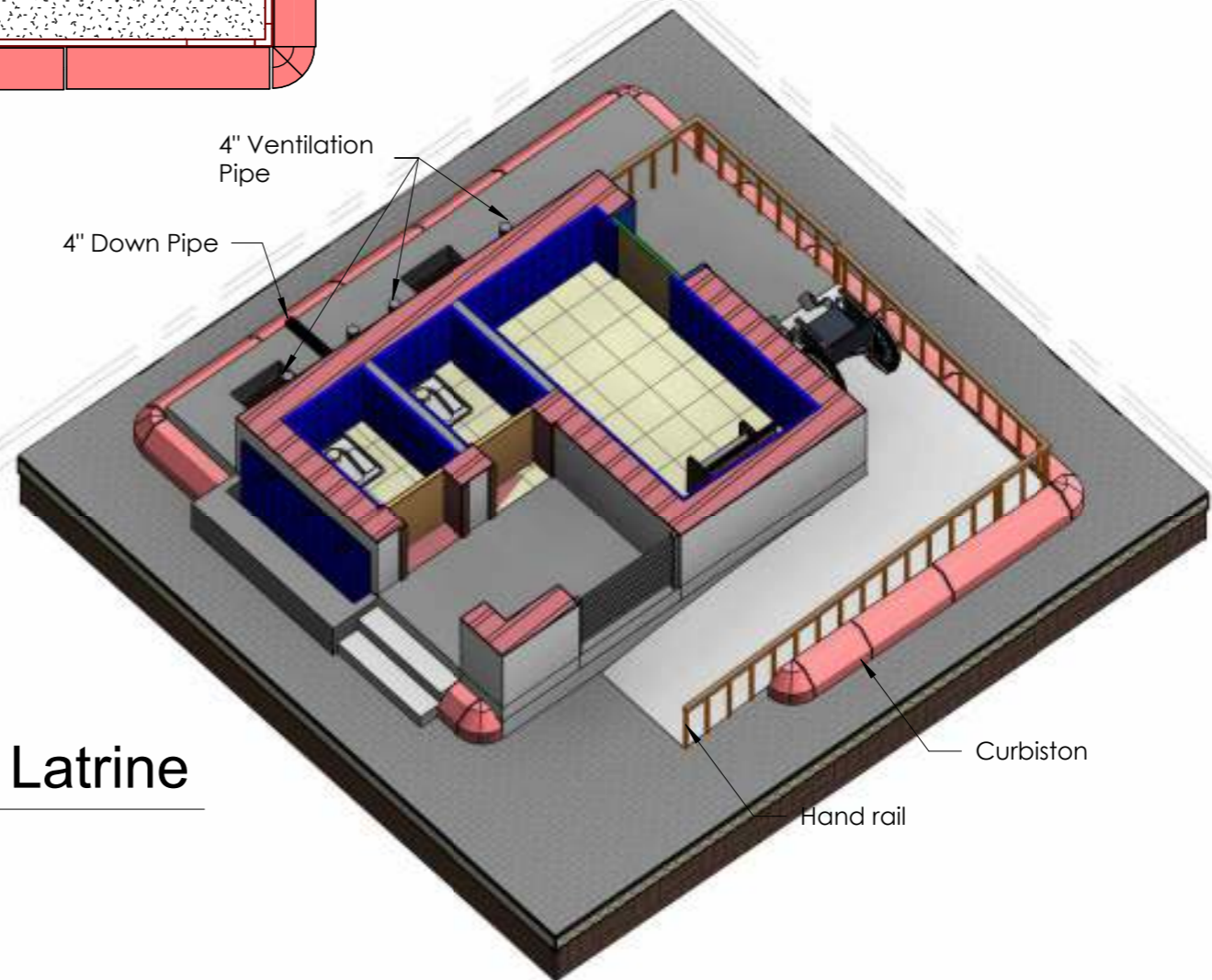
DATE: January 2022

INDEX: T2\_02 SCALE: 1 : 50



**1** 03-Latrine Floor  
 1 : 50

5  
 T2\_04

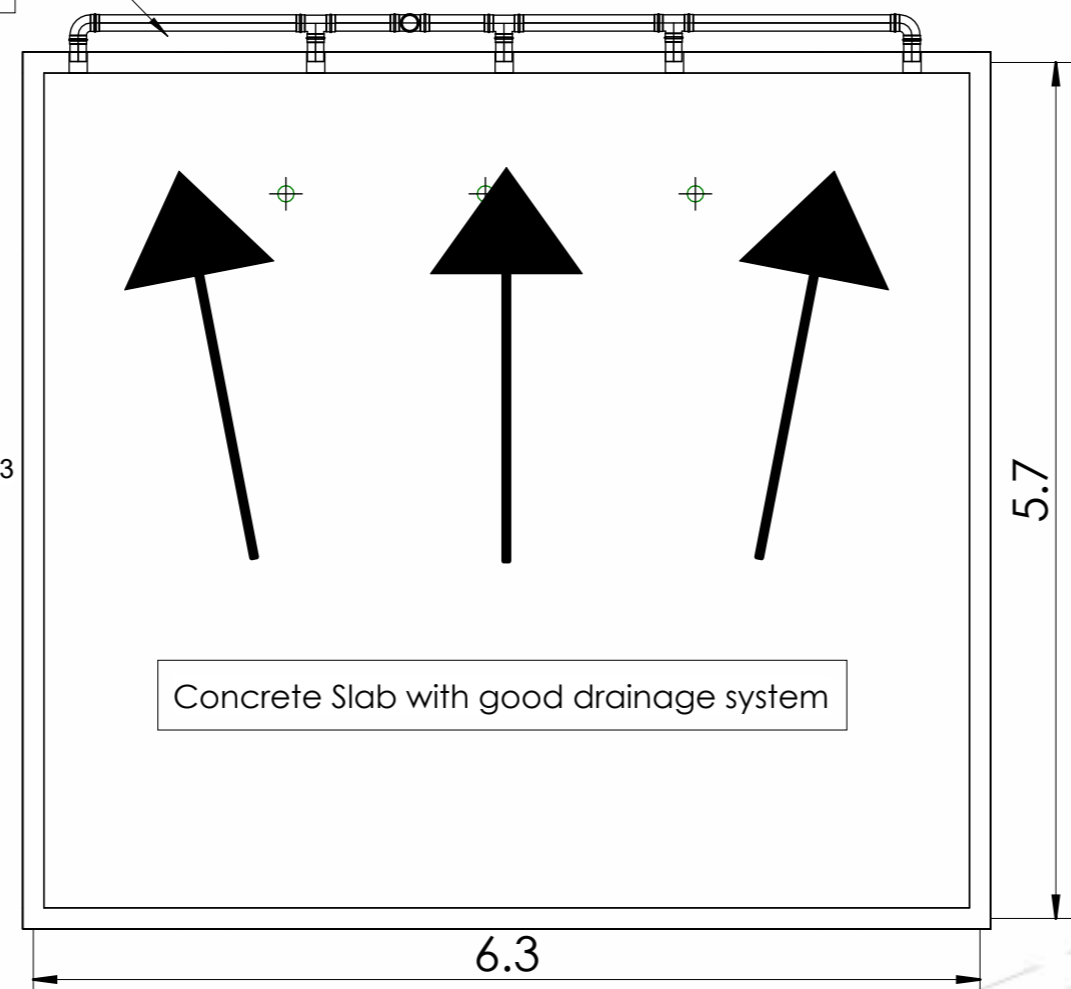


**2** 3D Latrine

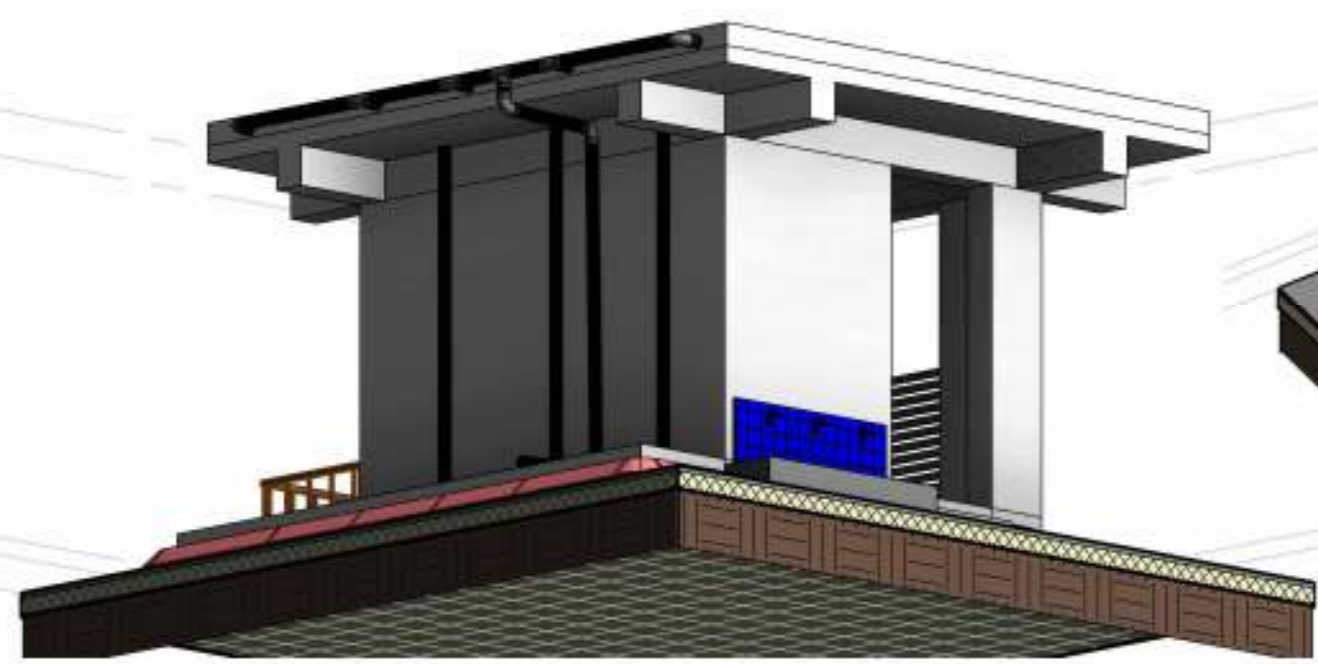
Hand rail  
 Curbiston

4 inch pipe

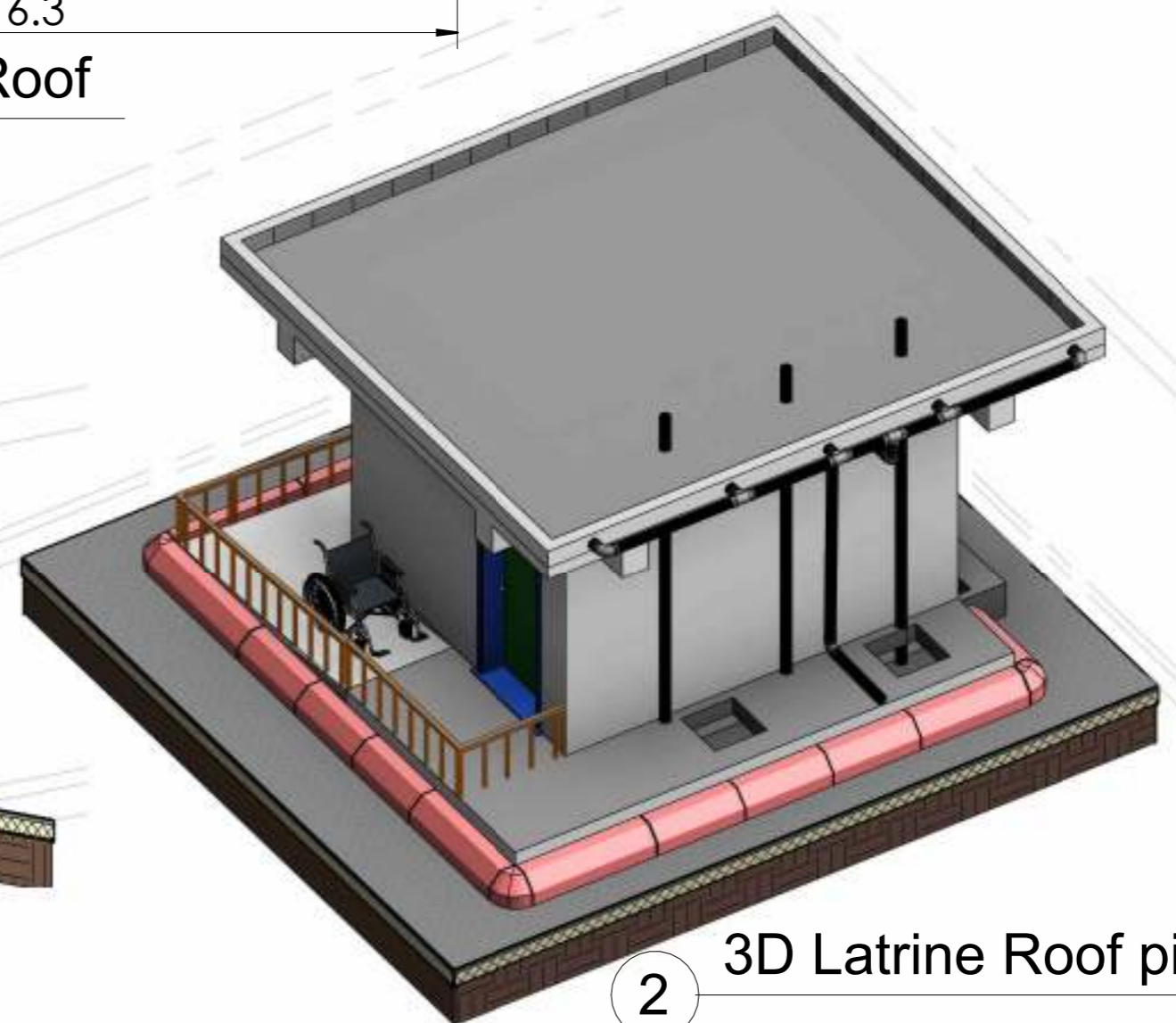
T2\_04 3



1 04-Latrine Roof  
1 : 50



3 3D Latrine Roof pipe Copy 1



2 3D Latrine Roof pipe



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TEL. +249925451234  
 +249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto: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:  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 Latrine Roof Plan

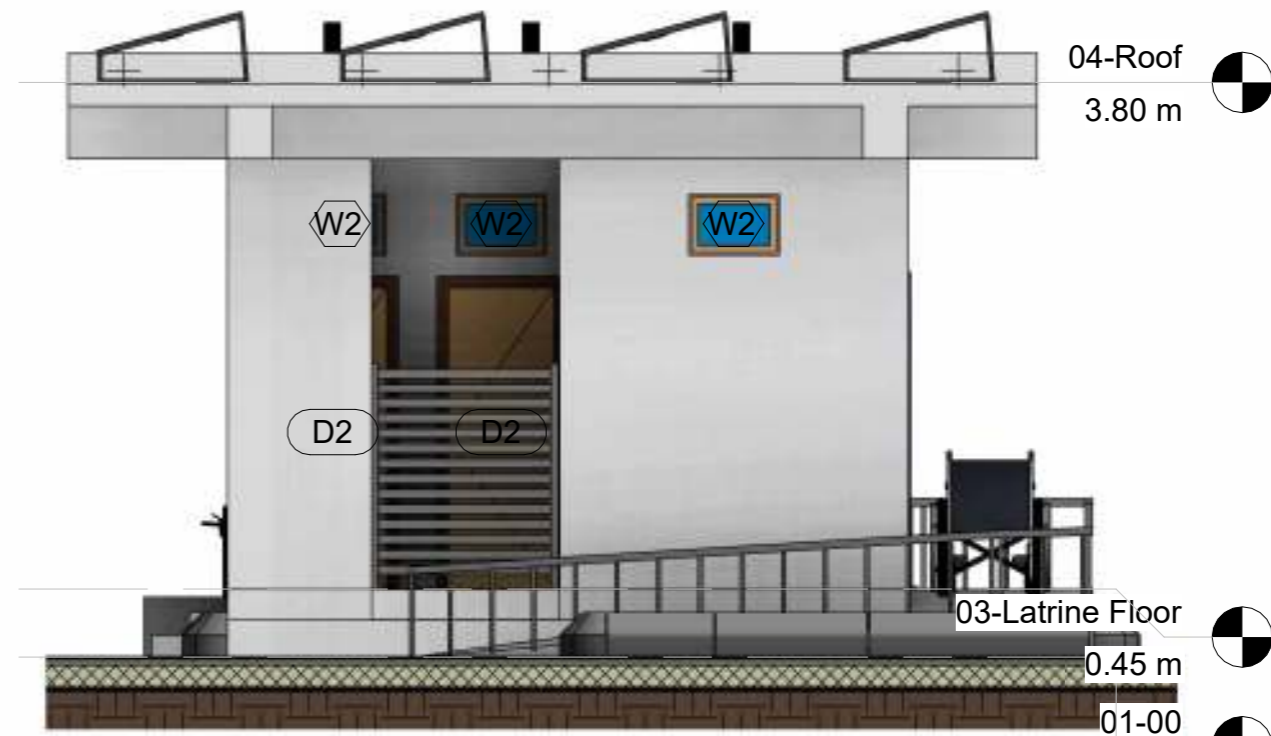
DATE: January 2022

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|--------|--------|--|
| INDEX: | SCALE: |  |
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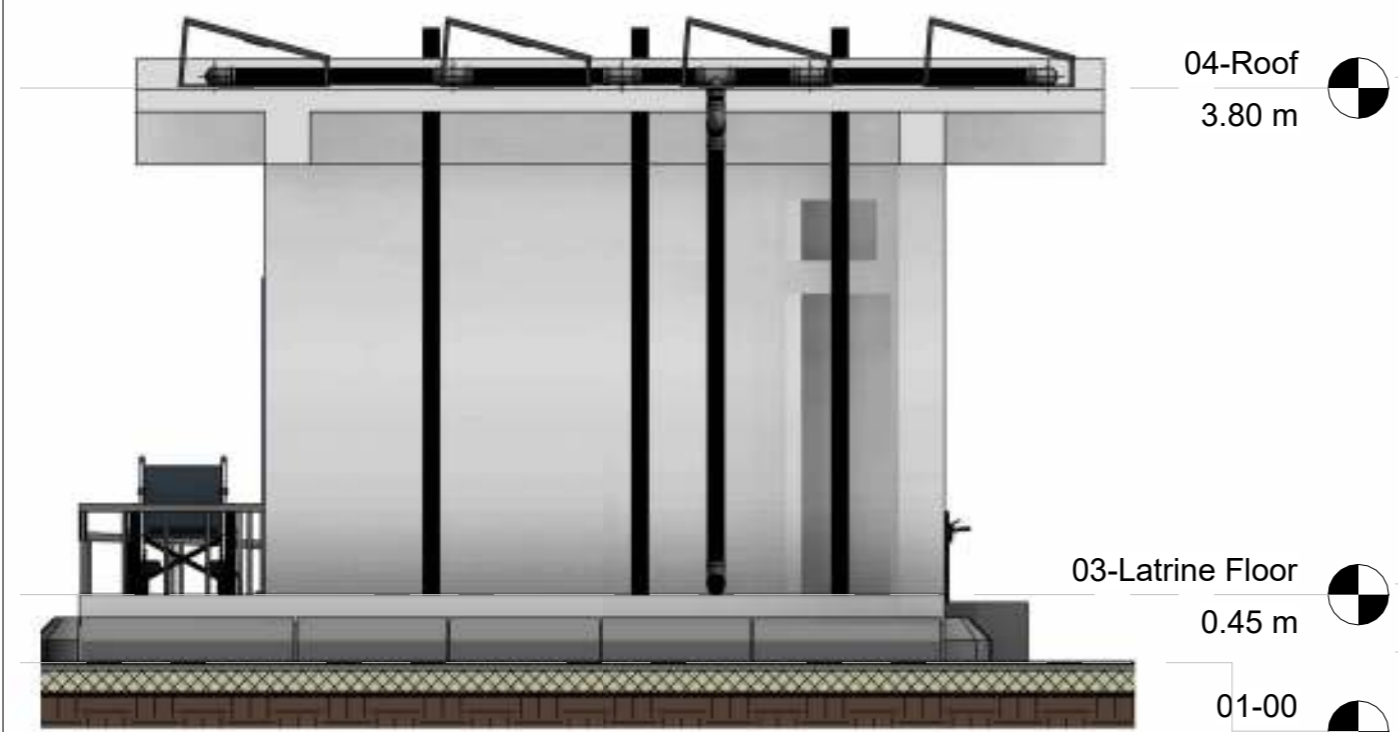




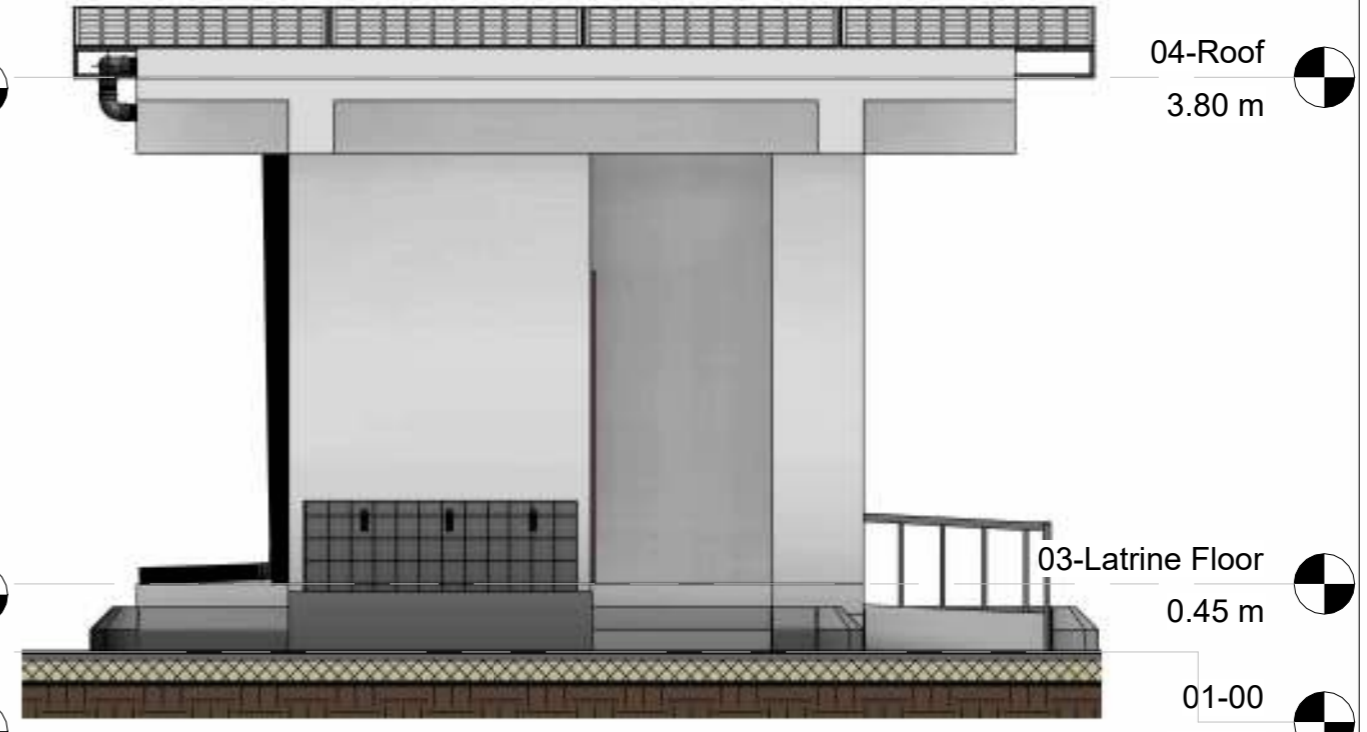
2 **Elevation 3 - b**  
1 : 50



5 **Elevation 2 - b**  
1 : 50



4 **Elevation 5 - b**  
1 : 50



3 **Elevation 4 - b**  
1 : 50



**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

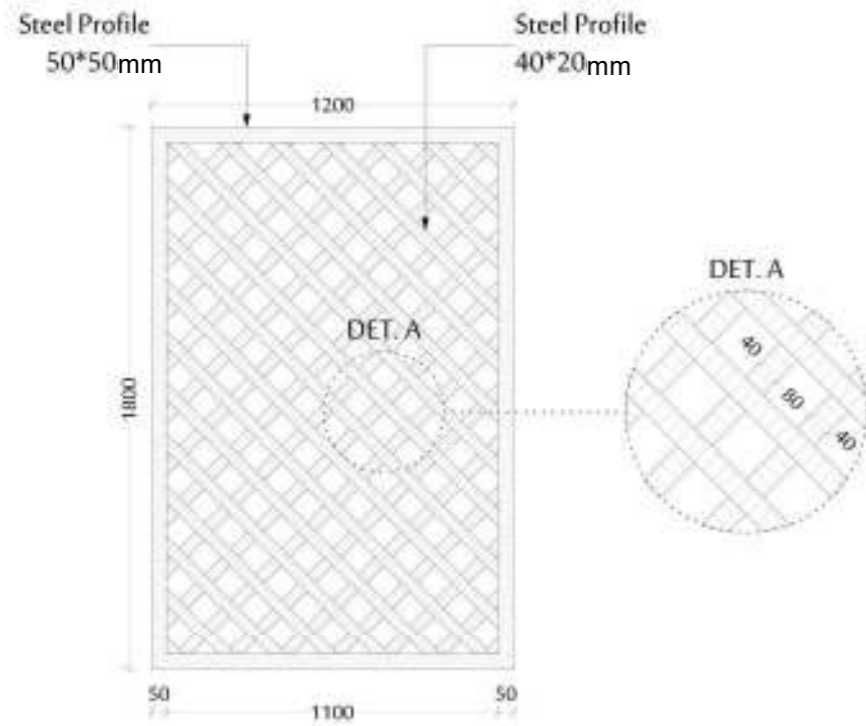
STRUCTURAL ENGINEER:  
ENG. IBRAHIM MOHAMMED IBRAHIM

CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

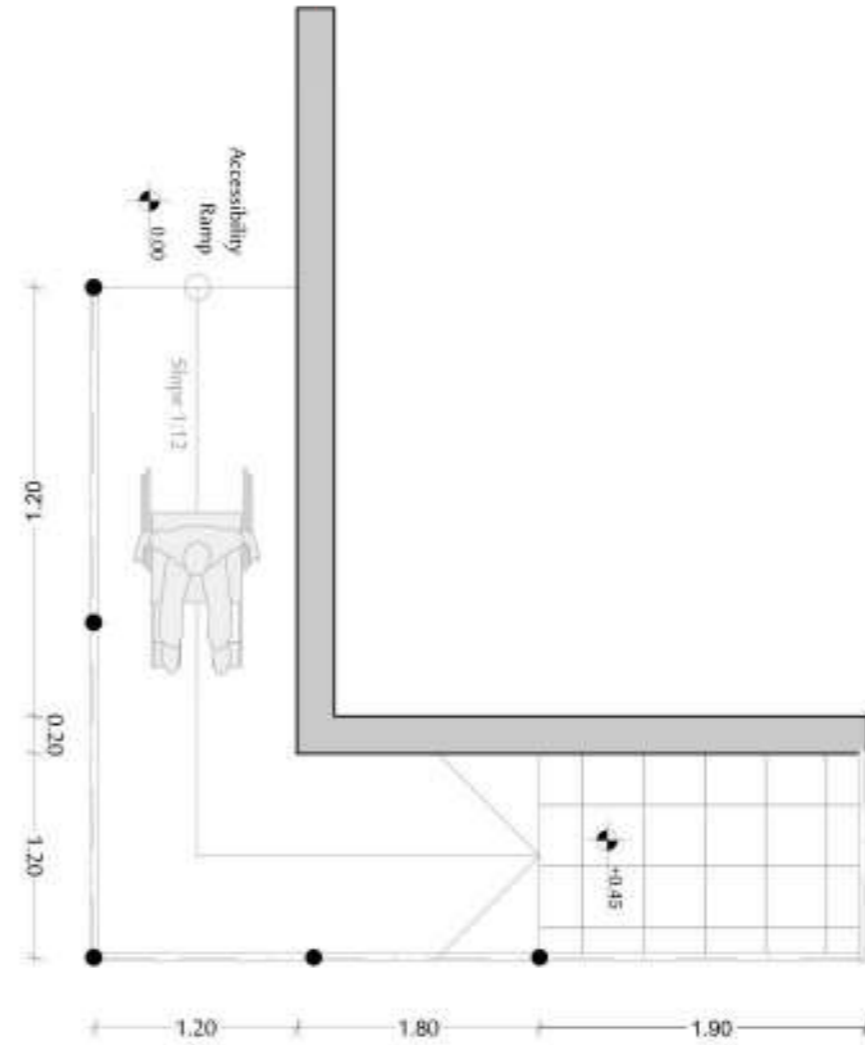
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Latrine Elevations

DATE: January 2022

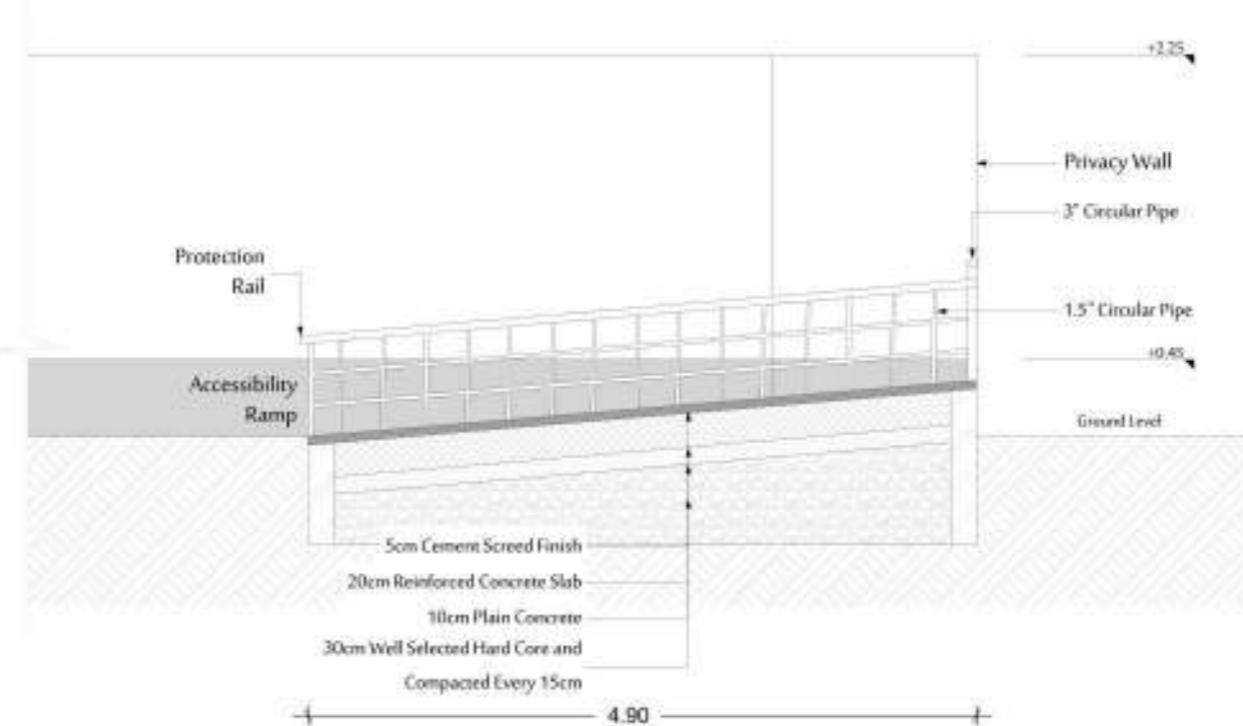
| INDEX: | SCALE: |  |
|--------|--------|--|
| T2_04  | 1 : 50 |  |



**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 Nyala

ARCHITECTURAL ENGINEER:  
 ENG. Designer  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 Details

DATE: January 2022

INDEX: T2\_05      SCALE: 1 : 100



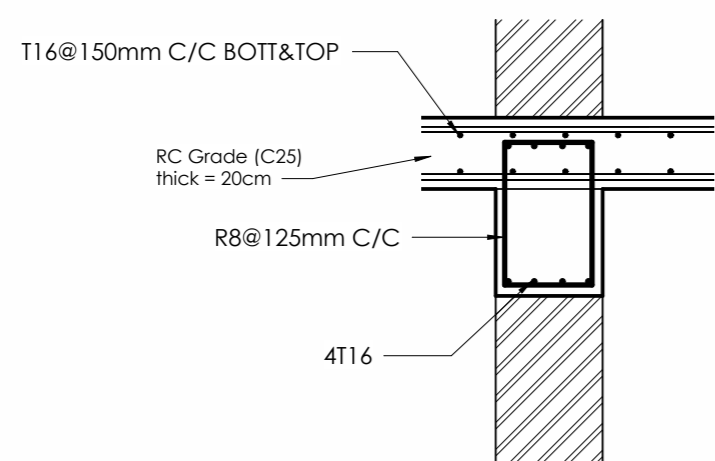
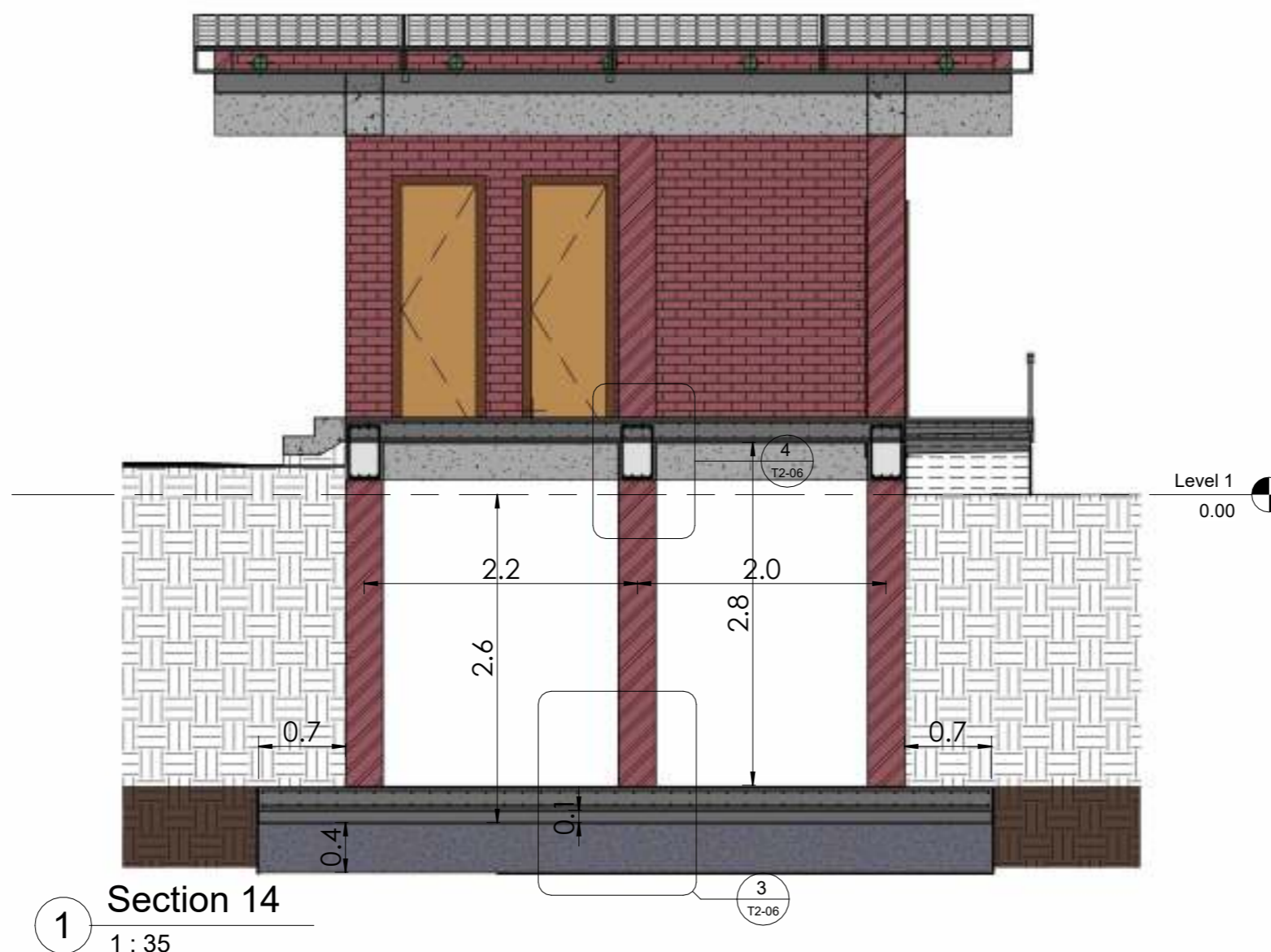


AICS-Italian Agency for Development  
Cooperation - SDN  
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Block 12 K-east Khartoum, SUDAN

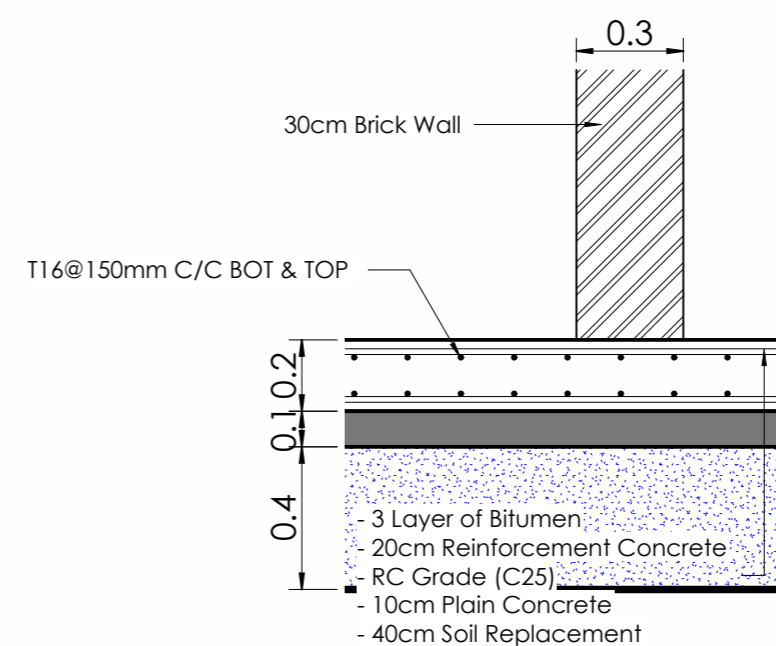
AL-Amarat Mohamed Najeeb Street, Khartoum  
TEL: +249925451234  
+249115418666  
EMAIL: [DGTC.ENGINEERING@GMAIL.COM](mailto:DGTC.ENGINEERING@GMAIL.COM)



DOUBLE GTC ENGINEERING



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 OTASH (NY06)

LOCATION :  
SOUTH DARFUR  
Northern Nyala

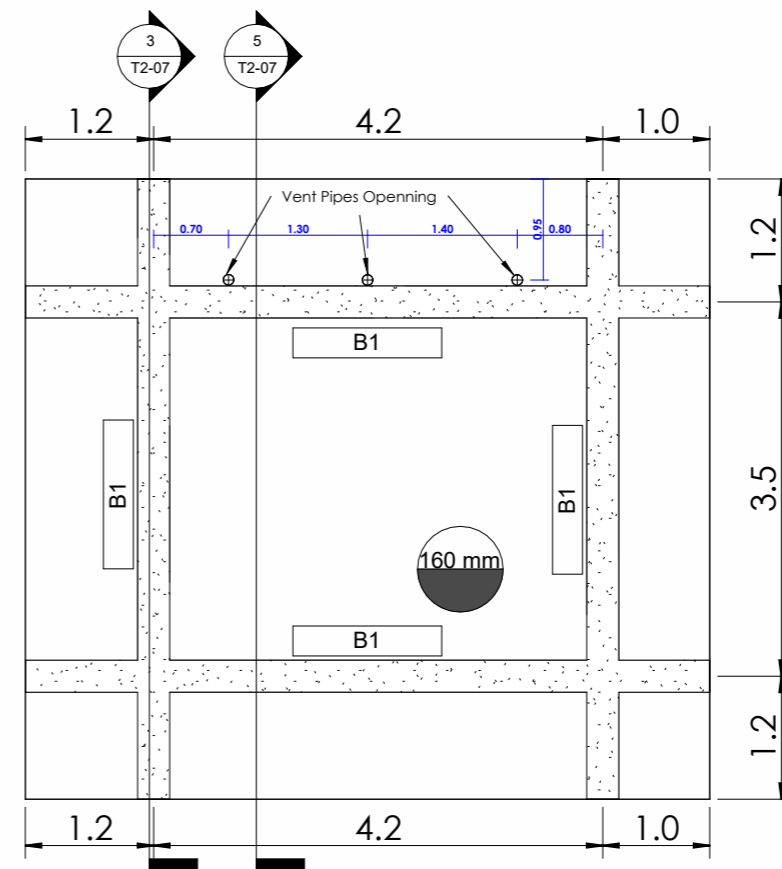
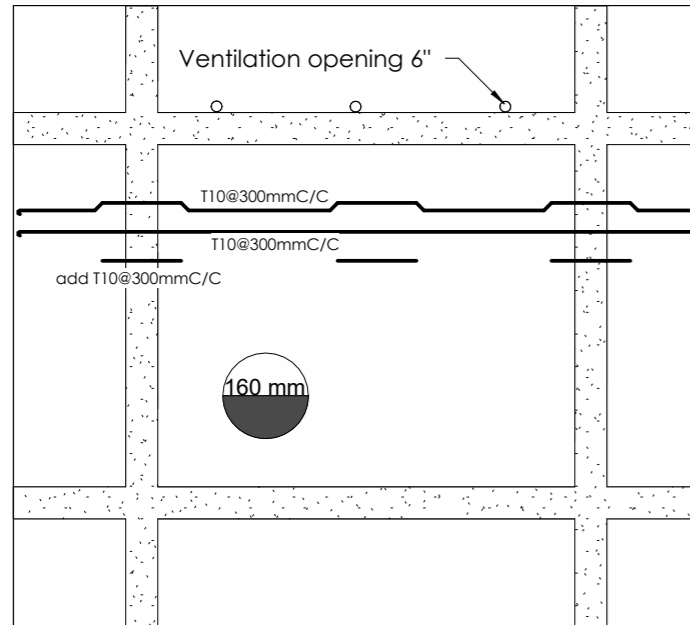
ARCHITECT :  
ENG.  
STRUCTURAL ENGINEER :  
ENG. IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY :  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :  
Well Details

DATE: January 2022

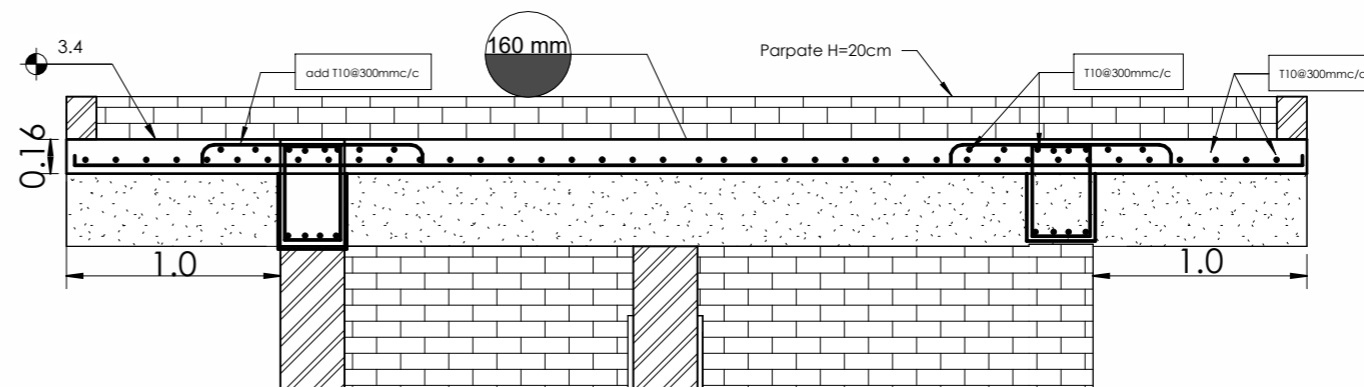
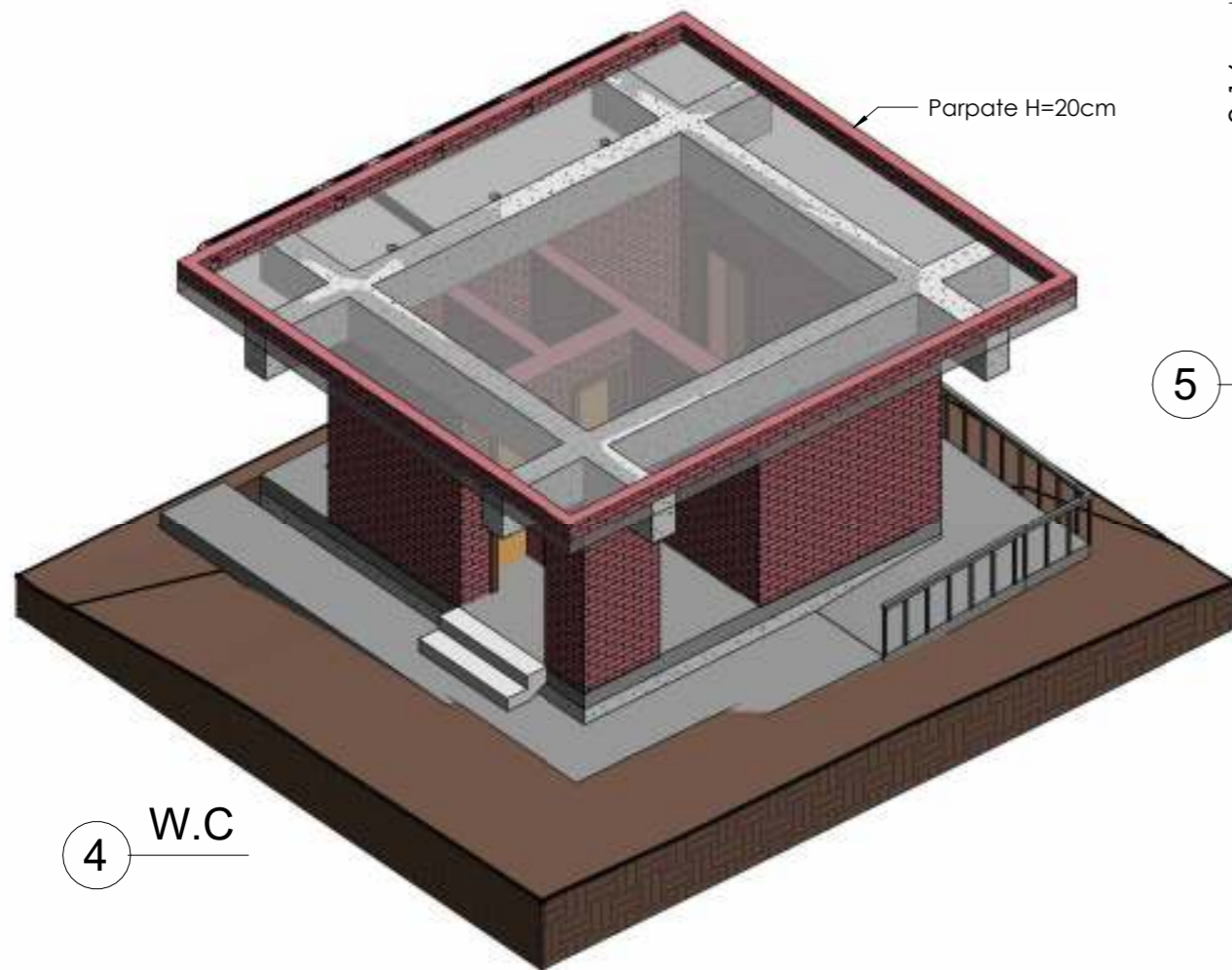
INDEX: T2-06  
SCALE: As indicated





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

4 W.C



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



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

PROJECT TITLE :  
HEALTH CENTER OF OTASH (NY06)

LOCATION :  
SOUTH DARFUR  
Northern Nyala

ARCHITECT :  
ENG.Rabab Azhari Fadle Elseed  
STRUCTURAL ENGINEER :

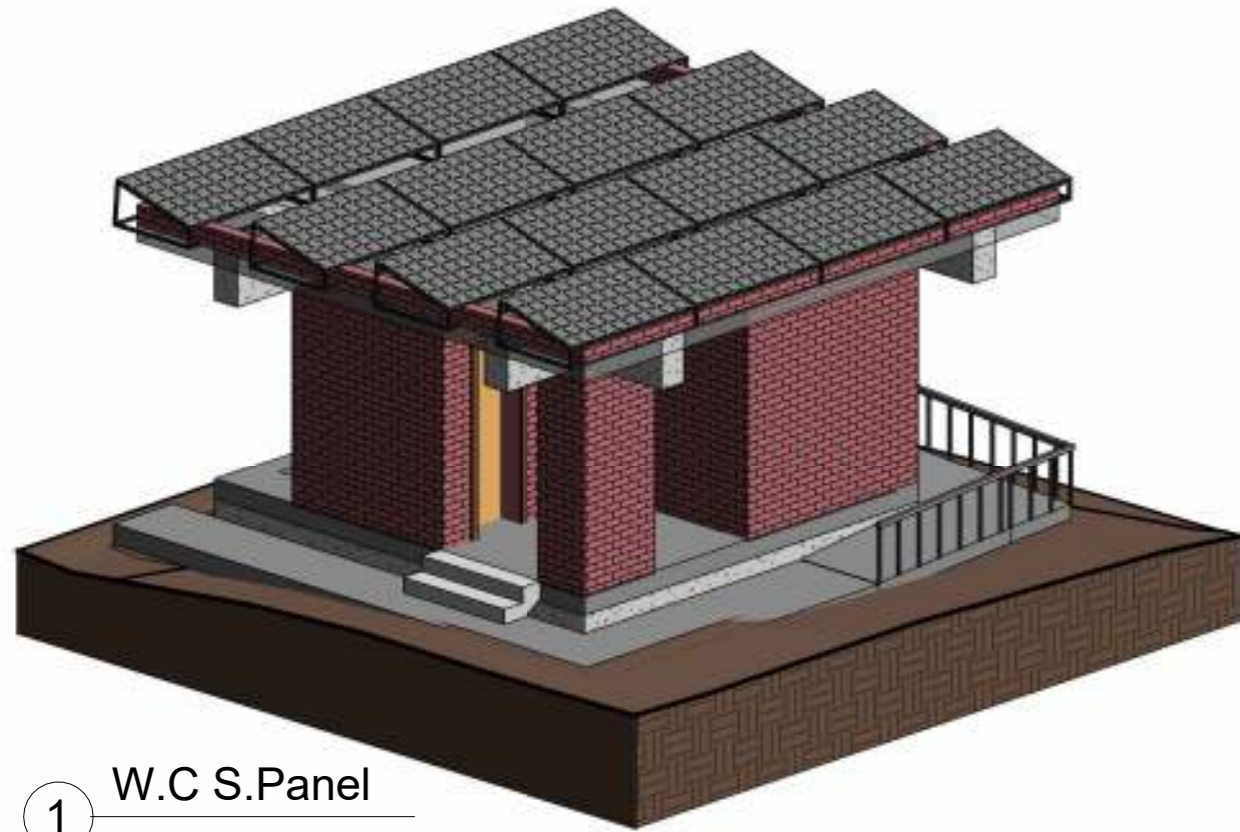
ENG.IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY :  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE :  
W.C Roof Reinforcement

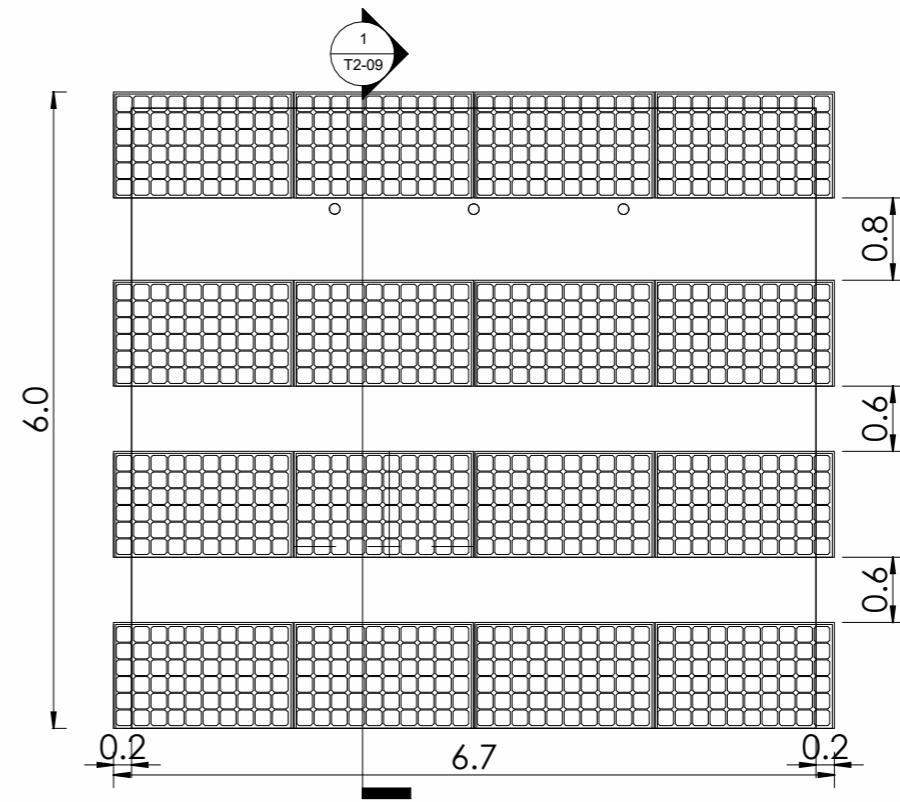
DATE: January 2022

INDEX : T2-07  
SCALE : As indicated

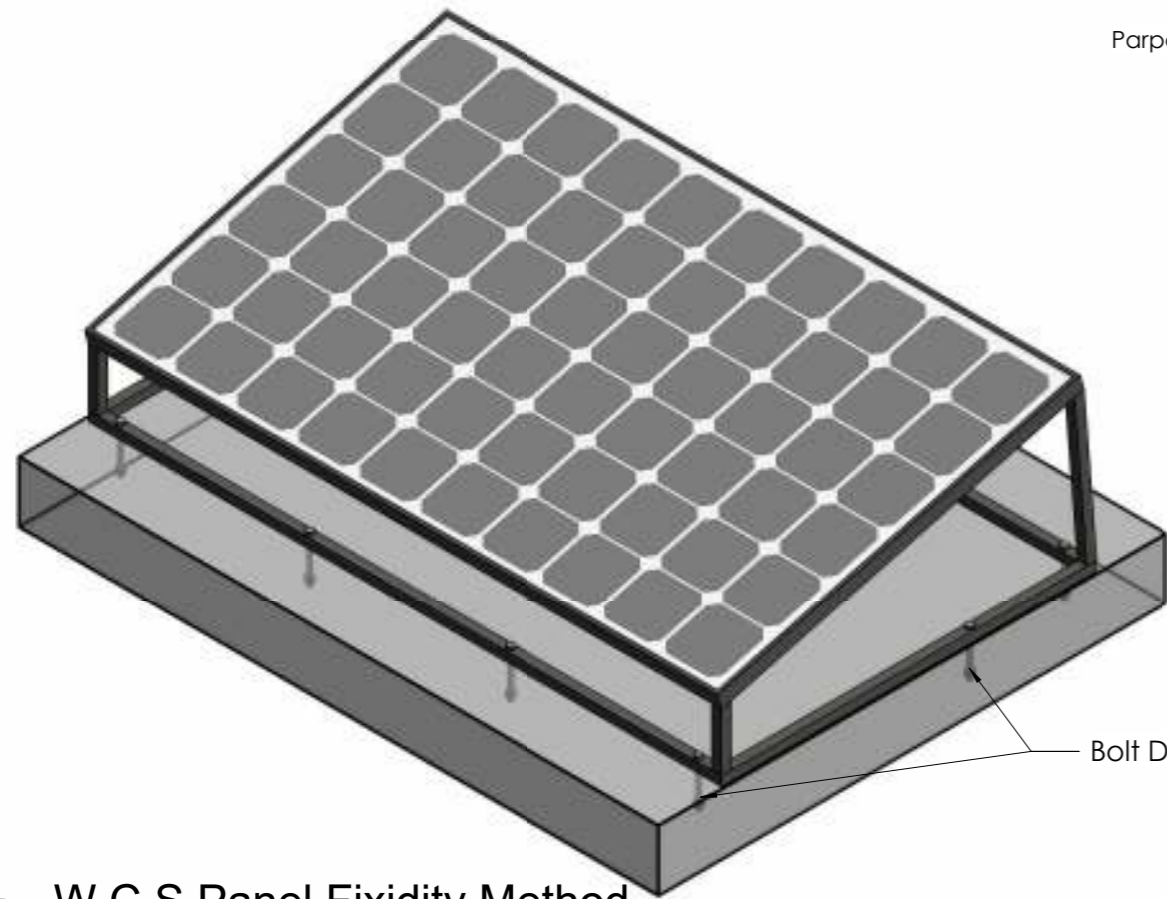




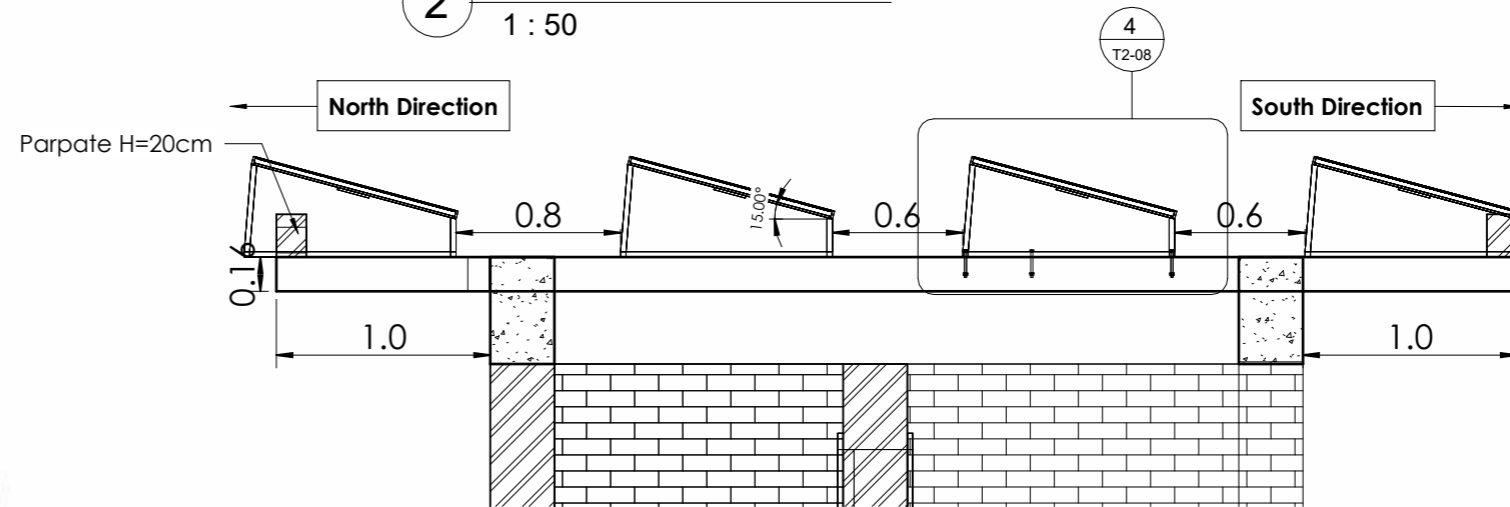
1 W.C S.Panel



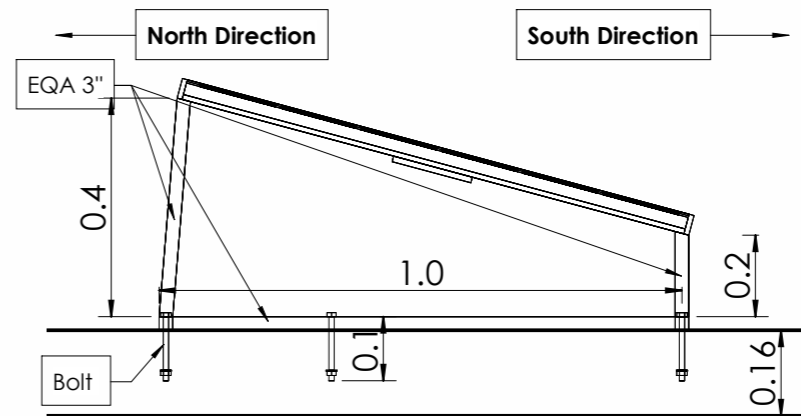
2 W.C Roof S.Panel  
1 : 50



5 W.C S.Panel Fixidity Method



3 Section 1 S.Panel Detaile  
1 : 25



4 S.Panel Detaile - Callout 1  
1 : 10

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



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



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

PROJECT TITLE :  
HEALTH CENTER OF OTASH (NY06)

LOCATION :  
SOUTH DARFUR  
Northern Nyala

ARCHITECT :  
ENG.Rabab Azhari Fadle Elseed  
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



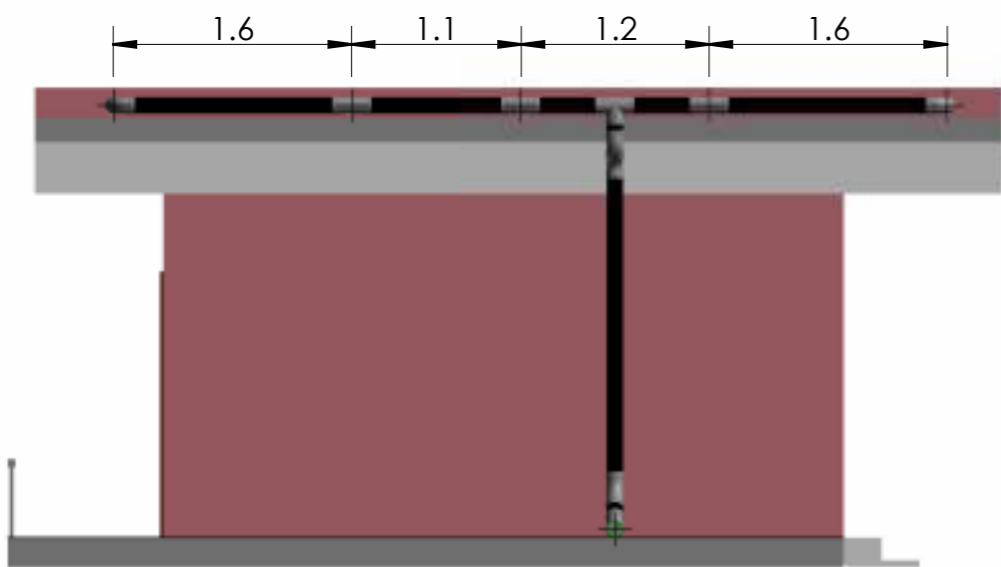
Parpate H=20cm

insulating layer (Kafga)  
Slope 1:6

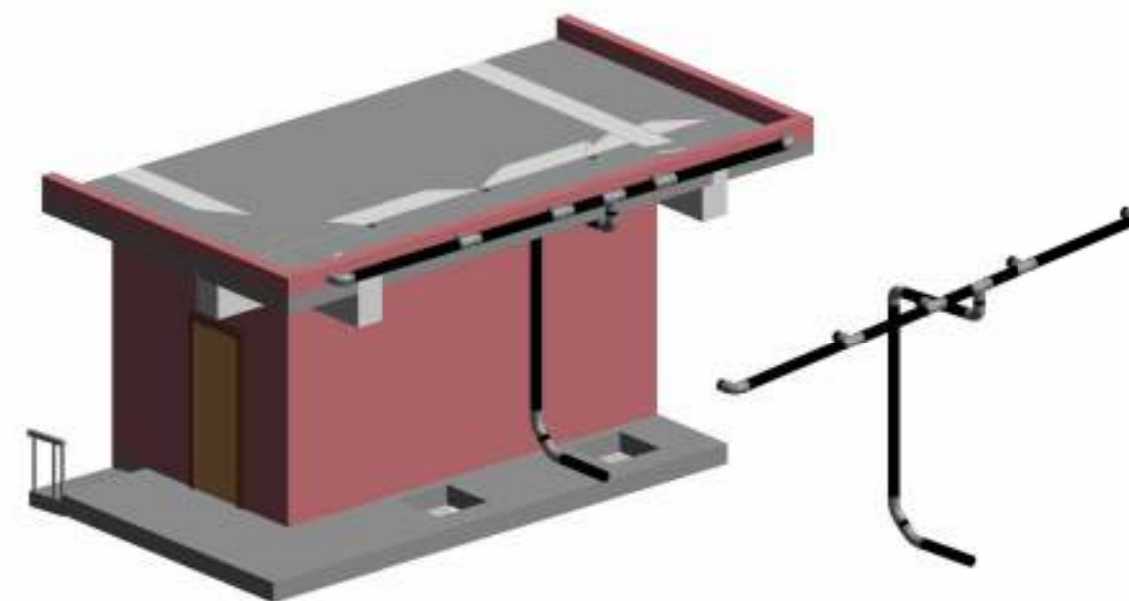
1.0

Down Pipe (PVC 4")

Section 1 (rainwater down pipe)  
1 : 25



Elevation 1 - a  
1 : 50



W.C (rainwater down pipe)  
4



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EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

PROJECT TITLE:  
HEALTH CENTER OF OTASH (NY06)

LOCATION:  
SOUTH DARFUR  
Northern Nyala

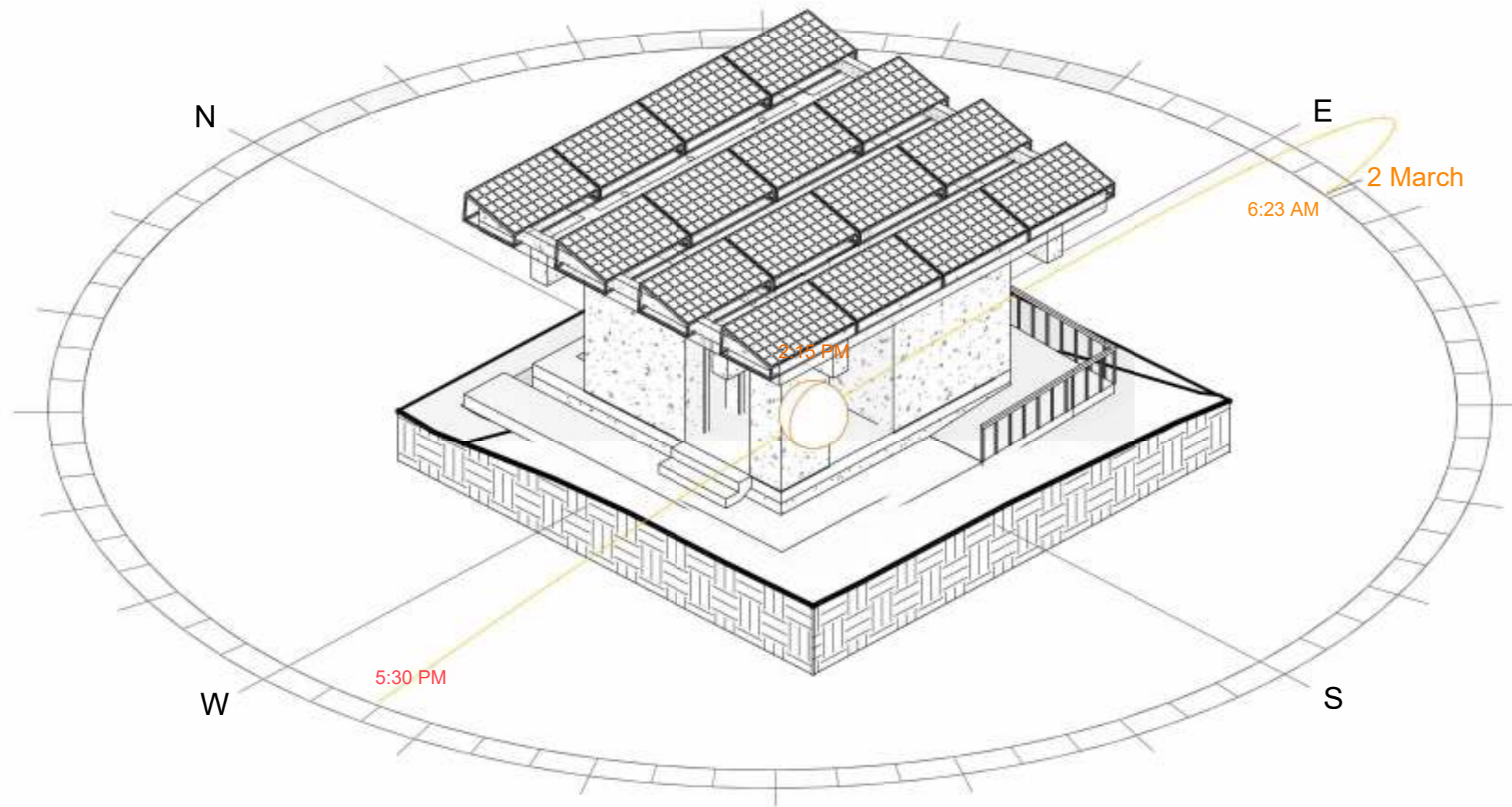
STRUCTURAL ENGINEER:  
ENG. IBRAHIM MOHAMMED IBRAHIM  
CHECKED BY:  
ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
Rainwater system

DATE: January 2022

INDEX: T2-09  
SCALE: As indicated





1 Sun Path



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TEL. +249925451234  
 +249115418666

EMAIL: [DQTC.ENGINEERING@GMAIL.COM](mailto:DQTC.ENGINEERING@GMAIL.COM)



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

PROJECT TITLE:  
 HELTH CENTER OF OTASH (NY06)

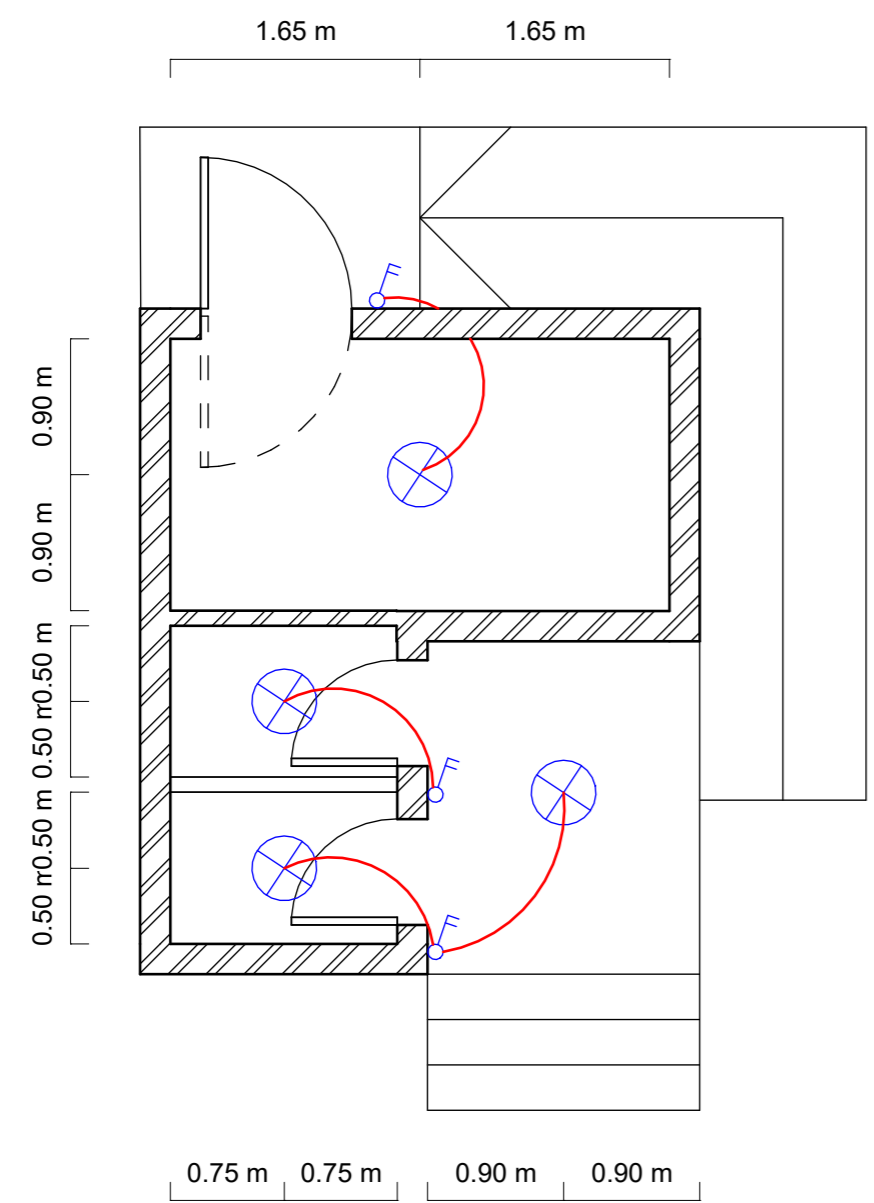
LOCATION:  
 SOUTH DARFUR  
 Northern Nyala

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

DRAWING TITLE:  
 Sun Path 3D View

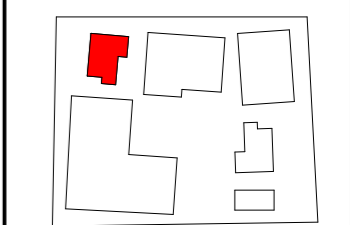
DATE: January 2022

|                 |        |  |
|-----------------|--------|--|
| INDEX:<br>T2-10 | SCALE: |  |
|-----------------|--------|--|



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

**1** FEMALE W.C.  
 1 : 50



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

PROJECT TITLE:  
 HEALTH CENTER OF OTASH (NY06)

LOCATION:  
 SOUTH DARFUR NORTHERN NYALA

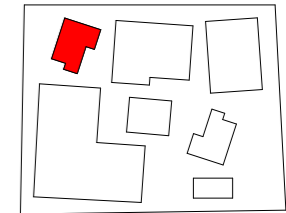
ELECTRICAL ENGINEER:  
 ENG.MOHAMMED SALAH ALAMIR  
 CHECKED BY:  
 ENG. AMRAN MOHAMMED OTHMAN

DRAWING TITLE:  
 BLOCK T2 ELECTRICAL LAYOUT

DATE: JANUARY 2022

|                 |                  |  |
|-----------------|------------------|--|
| INDEX:<br>T2_11 | SCALE:<br>1 : 50 |  |
|-----------------|------------------|--|





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

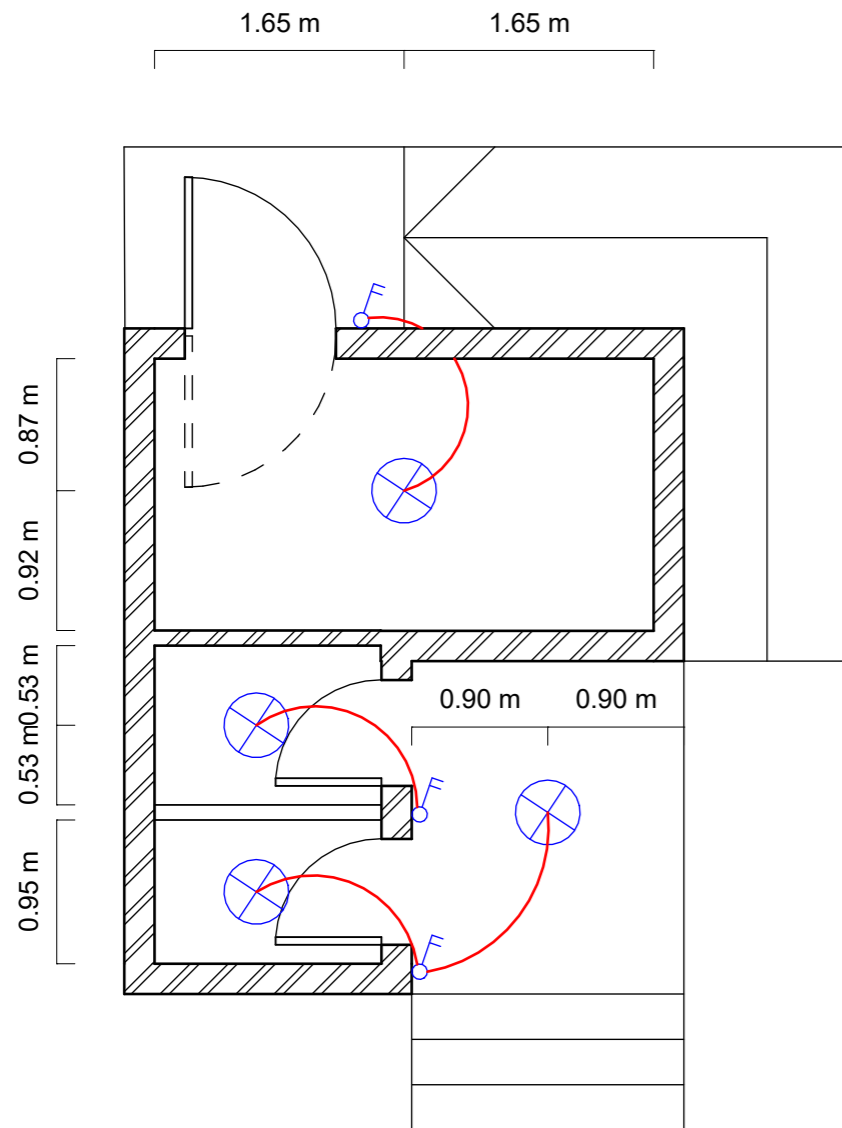
DRAWING TITLE:

BLOCK T2 ELECTRICAL LAYOUT

DATE: JANUARY 2022

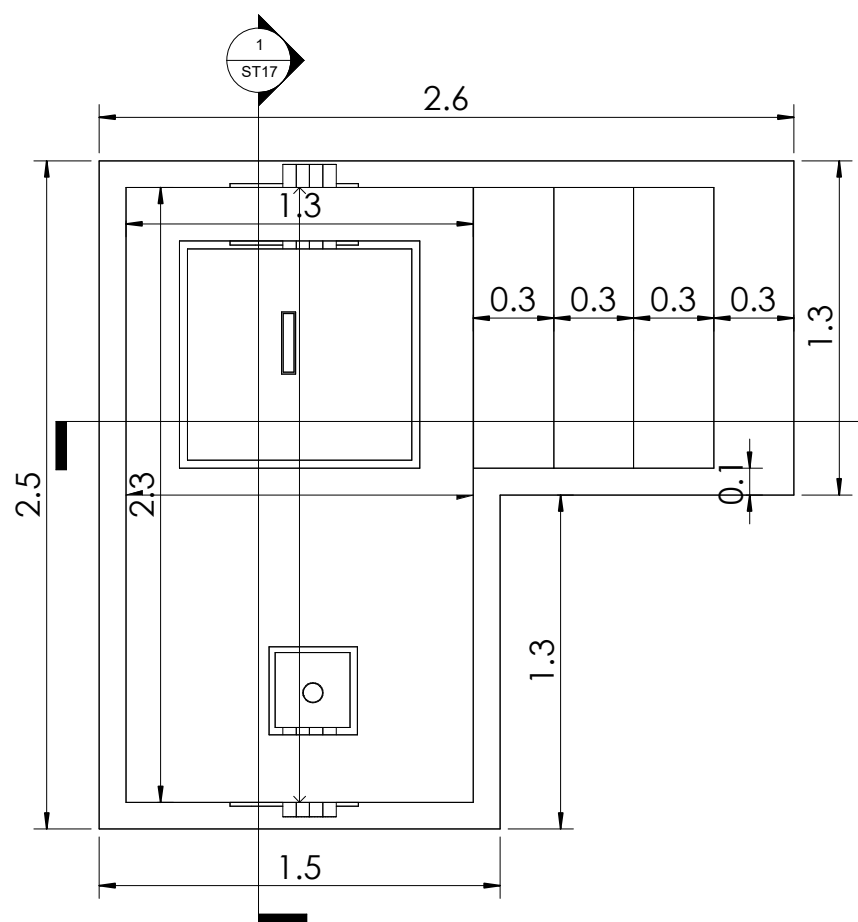
INDEX: T2\_11

SCALE: 1 : 50

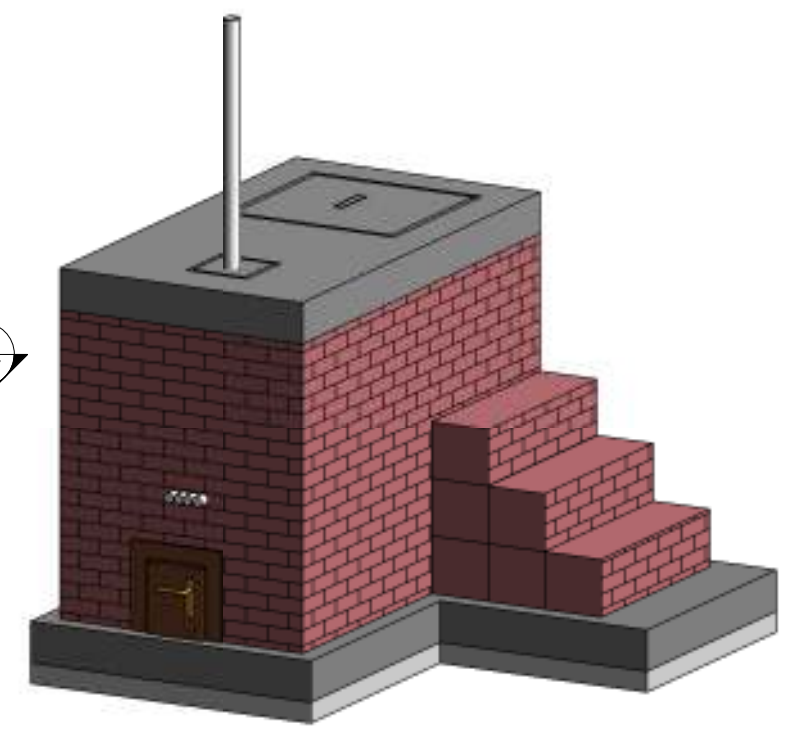


| DESCRIPTION |                     |
|-------------|---------------------|
|             | SINGLE LIGHT SWITCH |
|             | DOUBLE LIGHT SWITCH |
|             | TRIPLE LIGHT SWITCH |
|             | CEILING LAMP        |

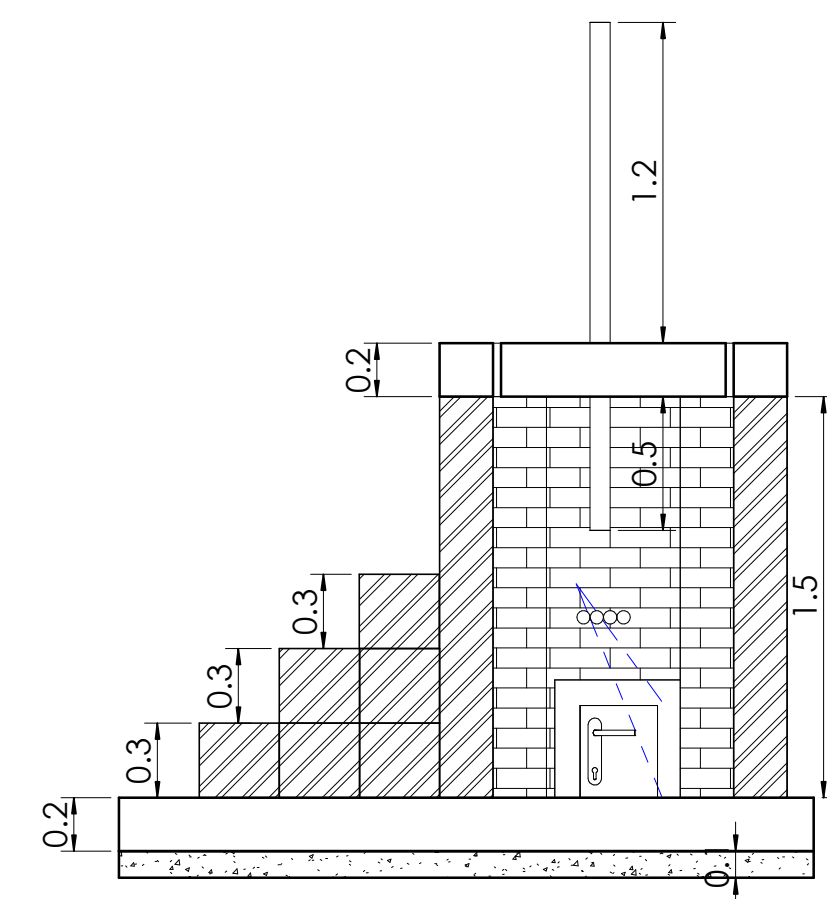
**1** FEMALE W.C  
 1 : 50



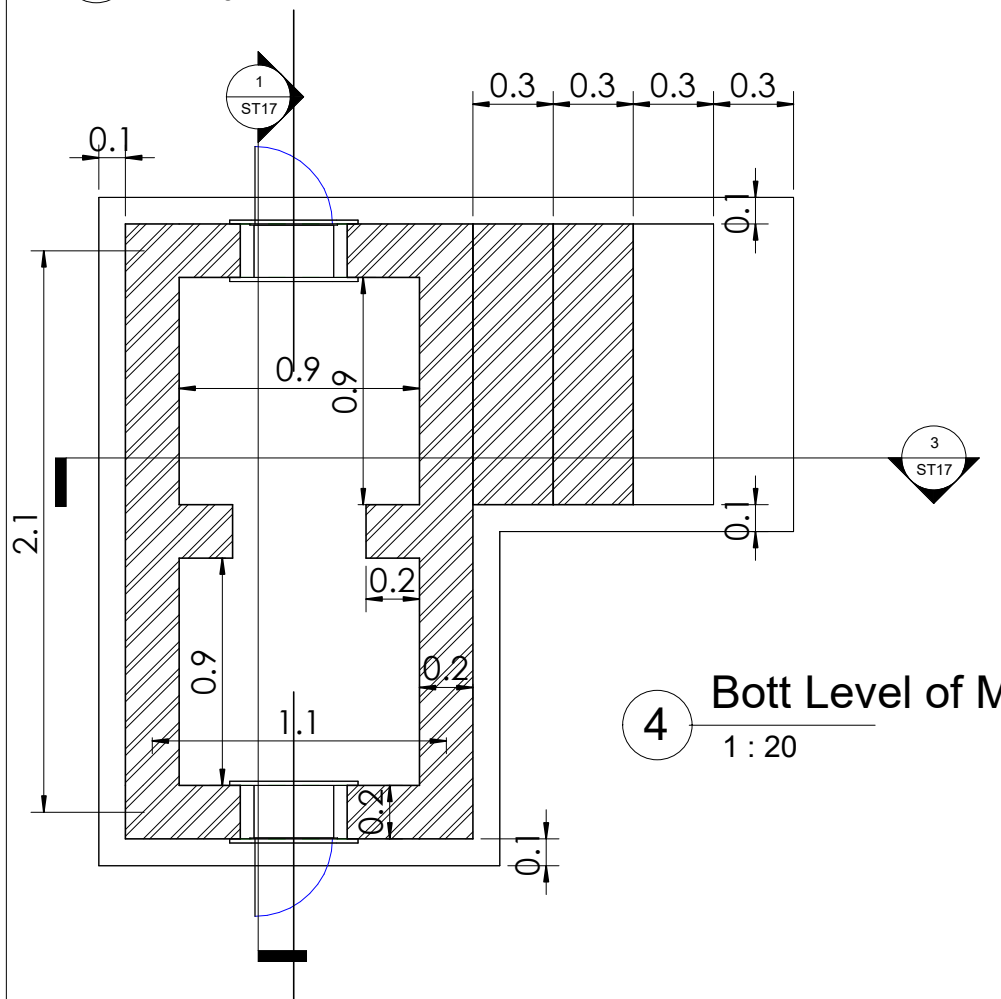
2 Medical Waste Disposal  
Plan  
1:20



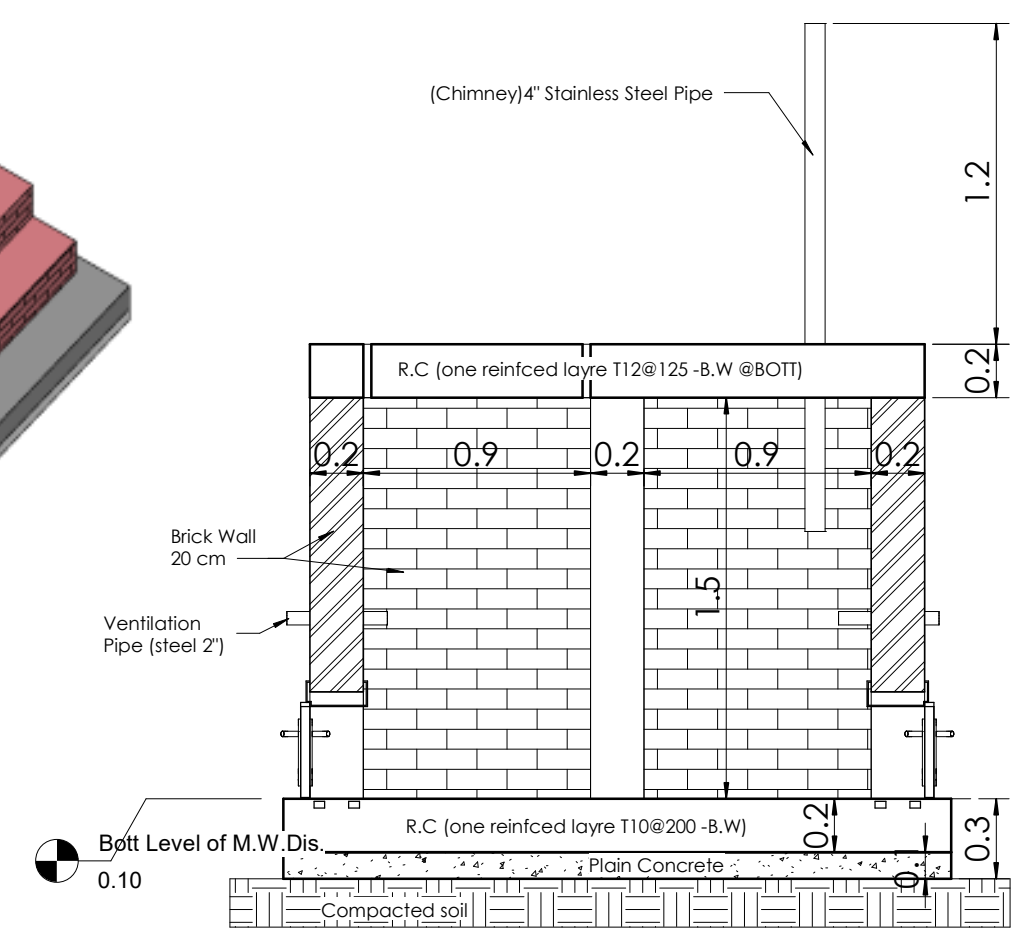
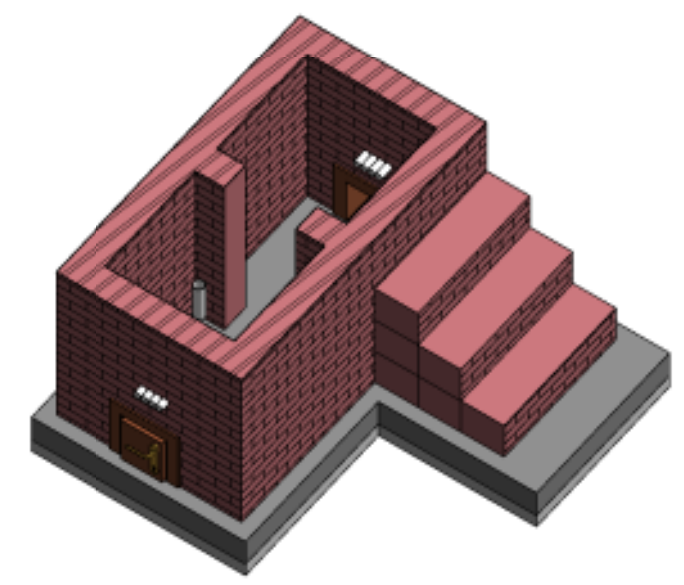
5 3D Medical Waste Disposal



3 Section 17  
1:20

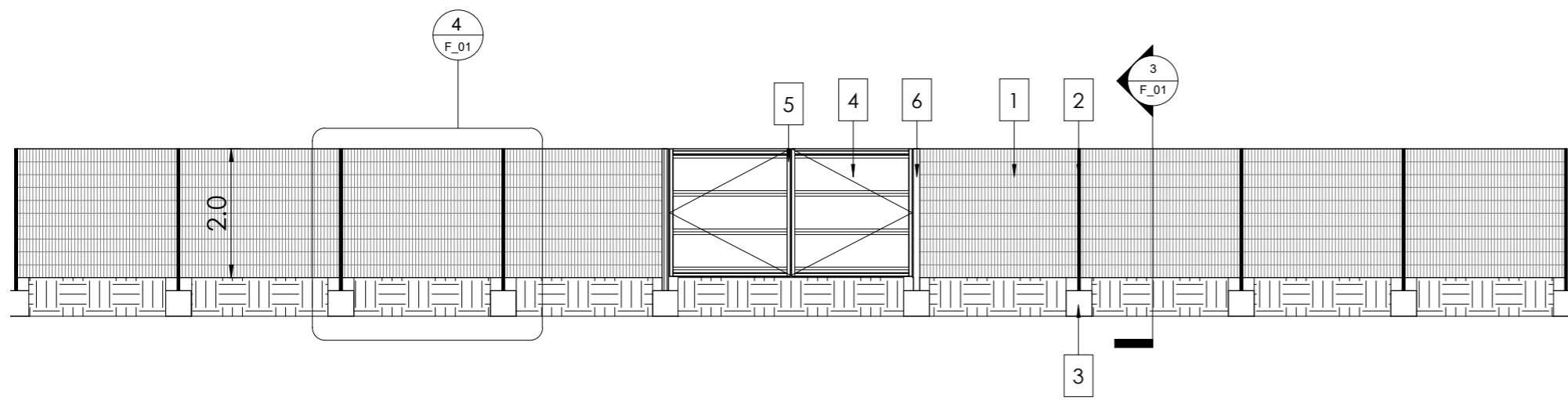


4 Bott Level of M.W.Dis.  
1:20

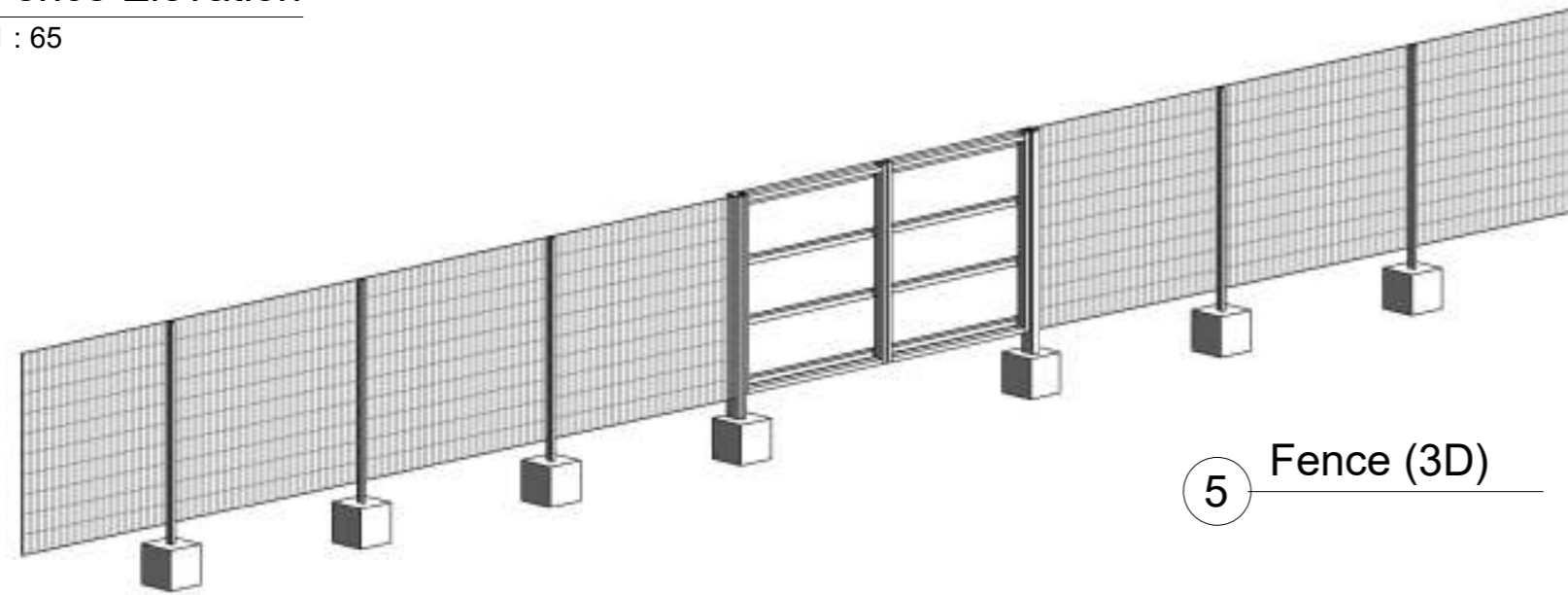


1 Section 16  
1:20

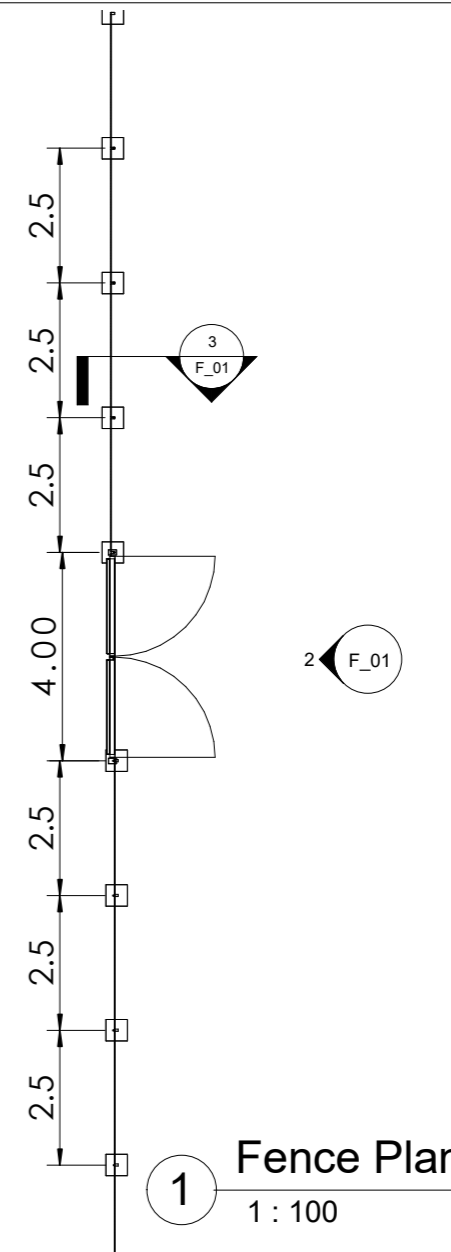
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| PROGRAM TITLE :               |         |  |
| T05-EUTF-HOA-SD-73-01         |         |  |
| PROJECT TITLE :               |         |  |
| HEALTH CENTER OF OTASH (NY06) |         |  |
| LOCATION :                    |         |  |
| SOUTH DARFUR NORTHERN NYALA   |         |  |
| ARCHITECT :                   |         |  |
| STRUCTURAL ENGINEER :         |         |  |
| ENG.IBRAHIM MOHAMMED IBRAHIM  |         |  |
| CHECKED BY :                  |         |  |
| ENG. AMRAN MOHAMMED OTHMAN    |         |  |
| DRAWING TITLE :               |         |  |
| Medical Waste Disposal        |         |  |
| DATE : January 2022           |         |  |
| INDEX :                       | SCALE : |  |
| MWD_01                        | 1:20    |  |



2 Fence Elevation  
1 : 65

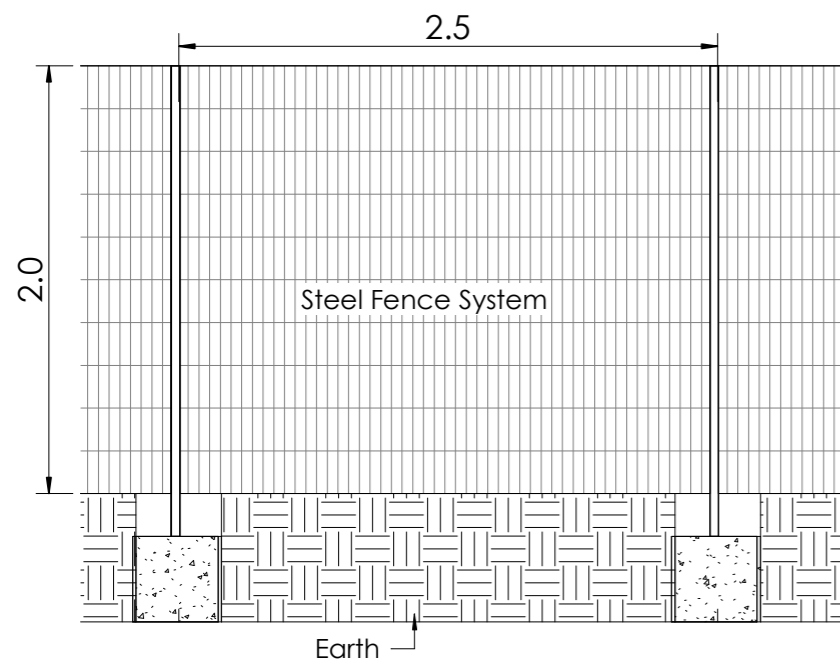


5 Fence (3D)

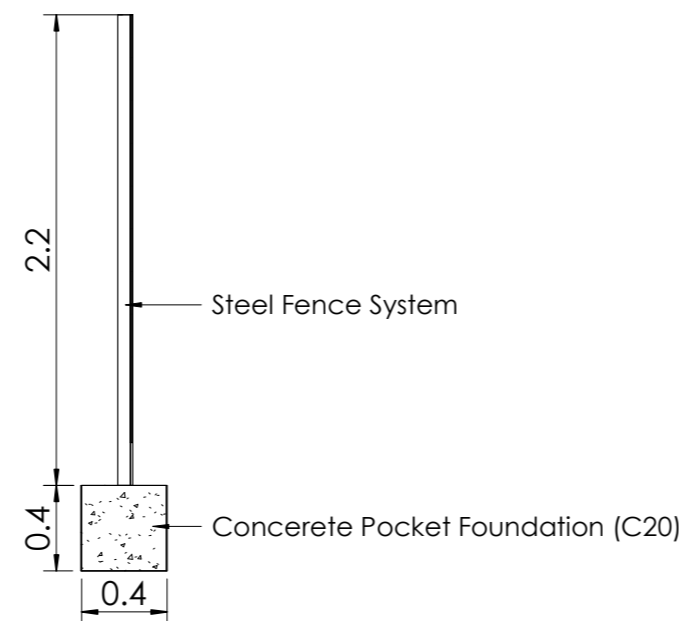


1 Fence Plan  
1 : 100

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



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

PROJECT TITLE :  
HEALTH CENTER OF OTASH (NY06)

LOCATION :  
SOUTH DARFUR NORTHERN NYALA

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

