

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

## REHABILITATION OF HEALTH CENTER'S

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SCHEDULE OF MATERIALS, LABOUR'S & DRAWINGS FOR LABORATORY  
BUILDING

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### PROJECT AREA

TANZANIA MAINLAND

Ministry of Health, Community,  
Deleopment Gender, Elderly and Children,  
University of Dodoma,  
College of Humanities,  
&Social Science 11<sup>th</sup> Building,  
P.O.Box 743,  
40478 DODOMA.

President's Office,  
Regional Administration,  
& Local Government,  
Mkapa House,  
Mlezi Road,  
P.O.Box 1923,  
41185 DODOMA.

FEBRUARY, 2018

PO-RALG

## **SCHEDULE OF MATERIALS**

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<b><u>MATERIALS</u></b>				
<b>A</b>	<b>SUBSTRUCTURE -PROVISIONAL</b>				
1	<b><u>Strip Foundation - Grade 15 Plain</u></b>				
	Aggregate (3/4")	17	M <sup>3</sup>		
	Sand	8	M <sup>3</sup>		
	Cement-50kgs	75	Bags		
2	<b><u>Foundation Walls</u></b>				
	6" Cement & Sand Block	1,316	No		
	Sand	5	M <sup>3</sup>		
	Cement -50kgs	23	Bags		
3	<b><u>Moram, Hardcore &amp; Site sterilization</u></b>				
	Moram (Lorry 4.5 M <sup>3</sup> )	9	Trips		
	Hadcore (Lorry 4.5 M <sup>3</sup> )	20	Trips		
	Sand	5	M <sup>3</sup>		
	Aldrin solution or equal and approved	9	Litres		
4	<b><u>Oversite Concrete (100mm thick- 15 grade) &amp; Ground Beam - 20 grade</u></b>				
	DPM	133	SQ.M		
	Cement -50kgs	95	Bags		
	Aggregates (1/2")	21	M <sup>3</sup>		
	Sand	11	M <sup>3</sup>		
	Reinforcement - 12mm diameter high	35	PC'S		
	Reinforcement - 8mm diameter high tensile	30	PC'S		
	Timber 1"X 8" (5.2m long)	10	PC'S		
	Timber 2" X 2"	8	PC'S		
	Nails-4"	13	Kgs		
	Nails-3"	11	Kgs		
	Supporting props	12	PC'S		
	<b>SUB-TOTAL SUB STRUCTURE</b>				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>B.</b>	<b>SUPER STRUCTURE</b>				
1	<b><u>Walls &amp; Ring beam</u></b>				
	6" Cement & Sand Block	2,422	No		
	DPC	2	Roll		
	Sand	13	M <sup>3</sup>		
	Cement-50kgs	105	Bags		
	Aggregates (1/2")	6	M <sup>3</sup>		
	Reinforcement - 12mm diameter high tensile	37	PC'S		
	Reinforcement - 8mm diameter	31	PC'S		
	Binding Wire - 1kg	10	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	45	PC'S		
	Timber 1" X 5" (Plates)	8	PC'S		
	Timber 2" X 2"	15	PC'S		
	Supporting Props	35	PC'S		
	<b>SUB-TOTAL SUPER STRUCTURE</b>				
<b>C.</b>	<b>ROOF STRUCTURE &amp; COVERING</b>				
1	<b><u>Roof Structure</u></b>				
	Timber 2" X 3" purlins	675	FT		
	Timber 2" X 4" kingpost	99	FT		
	Timber 2" X 6" rafters and tie beam	1,485	FT		
	Hard wood Timber 1 by 10 (Fisherboard); 5.2m long	11	PC'S		
	Nails -5"	15	Kgs		
	Nails -4"	13	Kgs		
	Nails -3"	10	Kgs		
	<b>NOTE:</b> The above soft wood timber structure should be pressure impregnated treated				
2	<b><u>Roof Covering</u></b>				
	28G IT resincoated sheet	250	M		
	Hips - 28 G	15	PC'S		
	Roofing Nails	15	Box		
	<b>TO COLLECTION</b>			<b>C/F</b>	

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<b>ROOF CONT...</b>			<b>B/F</b>	
3	<b><u>Gutter's</u></b>				
	Upvc 150mm half round (6m long)-5"	9	PC'S		
	Upvc 100mm dia.down pipe; Class B	7	PC'S		
	Clamp	39	PC'S		
	Upvc bend	13	PC'S		
	UPVC Elbow	26	PC'S		
	UPVC end cap	13	PC'S		
	<b>SUB-TOTAL ROOF STRUCTURE &amp; COVERING</b>				
<b>E.</b>	<b>CEILING</b>				
	Gypsum board - 12mm thick	46	PC'S		
	Plain Cornice	61	PC'S		
	Gypsum Screw 1" 800pcs/box	8	Box		
	Screw 1.25" 800pcs/box	1	Box		
	Gypsum powder	8	Bags		
	Fibre tape	2	Pcs		
	Timber 2" X 2" treated	1,788	FT		
	Nails 4"	6	Kgs		
	Nails 3"	5	Kgs		
	PVC ceiling with its fittings -	27	Pc's		
	<b>SUB-TOTAL FOR CEILING</b>				
<b>F.</b>	<b>DOOR</b>				
1	<b><u>40mm thick solid core flush door shutter</u></b>				
	1200 x 2100 mm high	4	PC'S		
	1500 x 2100 mm high	3	PC'S		
	1000 x 2100mm high	6	PC'S		
	900 x 2100mm high	4	PC'S		
2	<b><u>Frames (hardwood),Varnish, Glass &amp; Burglar bar</u></b>				
	1200 x 2500 mm high	4	PC'S		
	1500 x 2500mm high	3	PC'S		
	1000 x 2500mm high	6	PC'S		
	900 x 2500mm high	2	PC'S		
	900 x 2100mm high	2	PC'S		
	<b>TO COLLECTION</b>			<b>C/F</b>	

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<b>DOOR CONT..</b>			<b>B/F</b>	
	4mm thick clear glass to Vents	6	M <sup>2</sup>		
	16 mm burglar bars	2	PC'S		
	Brash 3"	4	Pcs		
	Msasa No.80	10	LM		
	Clear Varnish - 4Litres	2	TIN		
	TINA for Varnish -4Litres	1	Litres		
3	<b><u>IronMongeries</u></b>				
	Mortice lock Three lever ref:Union	17	No		
	Brass hinges - 100mm	15	Pairs		
	Barrel bolt - 150mm	34	No		
	Wood Screw	2	Box		
	Kick- plate; 750 x 200mm	12	No		
	Kick- plate; 600 x 200mm	16	No		
	Kick- plate; 900 x 200mm	8	No		
	Kick- plate; 1000 x 200mm	12	No		
	Hinges double swing -150 mm	21	Pairs		
	Pushing plate	14	No		
	<b>SUB-TOTAL FOR DOORS</b>				
<b>G.</b>	<b>WINDOWS</b>				
1	<b><u>Supply and fix Aluminium Windows 2mm thick frem with fibre glass, Mosquitor gauze</u></b>				
	900 X 600mm high	5	PC'S		
	1500 X 1200mm high	4	PC'S		
	1500 X 1500mm high	4	PC'S		
	1000 X 1200mm high	3	PC'S		
2	<b><u>Supply and fix 4mm thick flat bar grill painted red-oxide</u></b>				
	900 X 600mm high	5	PC'S		
	1500 X 1200mm high	4	PC'S		
	1500 X 1500mm high	4	PC'S		
	<b>SUB-TOTAL FOR WINDOWS</b>				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>H.</b>	<b>FINISHING</b>				
1	<b>Floor finishing</b>				
	Sand	7	M <sup>3</sup>		
	Cement-50kgs	41	Bags		
	600 x 600Non slippery Porcelain floor tiles (1.46 Sqm/Box)	93	Box		
	Grout	3	Bucket		
	Spacer	2	Packet		
	Skirting (600 mm long; 25No/Box)	6	Box		
2	<b>Wall Finishing</b>				
	Sand	12	M <sup>3</sup>		
	Cement-50kgs	72	Bags		
	White cement - 50kg	4	Bags		
	Gypsum powder	8	Bags		
	Soft pepar (Msasa) No.120	0.5	Roll		
	200 X 300 Wall tiles to toilets - full height (0.96Sqm/Box)	81	Box		
	Grout	2	Packet		
	Spacer	1	Packet		
	<b>SUB-TOTAL FOR FINISHING</b>				
<b>I.</b>	<b>PAINTING &amp; DECORATION</b>				
	Emulsion Paint - 20 LTRS	8	buckets		
	Weather guard Paint - 20 LTRS	3	buckets		
	Washable paint -20 LTRS	4	buckets		
	Primer paint -20 LTRS	2	buckets		
	Solvent - 5LTRS	1	TIN		
	Brush 3"	3	Pcs		
	Roller	2	Pcs		
	Gloss paint-4LTR	1	TIN		
	Bitumen paint - 4Litres	1	TIN		
	<b>SUB-TOTAL FOR PAINTING&amp;DECORATION</b>				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>J.</b>	<b>ELECTRICAL INSTALLATION</b>				
1	Single fluorescent fitting, approved philips or equal	6	No		
2	Double fluorescent fitting, approved philips or equal	9	No		
3	Double switch socket	18	No		
4	Main switch 8way,3PH with intergral RCD	1	No		
5	Single core wire 1.5sqmm - Red	2	Roller		
6	Single core wire 1.5sqmm - Black	2	Roller		
7	Single core wire 1.5sqmm -green	2	Roller		
8	Single core wire 2.5sqmm approved uro or equal red	2	Roller		
9	Single core wire 2.5sqmm approved uro or equal black	2	Roller		
10	Single core wire 2.5sqmm approved uro or equal green	2	Roller		
11	Ceilling fan, approved National or equal	3	PC's		
12	4 core cable 16mmsq	20	M		
13	1gang one way switch	4	No		
14	2gang two way switch	8	No		
15	20A DP switch	2	No		
16	Lan socket	2	No		
17	Gypsum light complete with energy saver 18w	6	No		
18	Earth rod approved copper not less than 1200mm	1	No		
19	Earth wire 4sqmm	30	M		
20	Metal box double	20	No		
21	Metal box single	18	No		
22	Junction box	40	No		
23	Conduit pipe	80	PC's		
24	Elbow	35	PC's		
25	Conduit coupling	20	PC's		
26	Round cover	50	PC's		
27	Round box	50	PC's		
28	fine screw	5	Packet		
29	Plastic clips 22mm	3	Box		
	<b>SUB-TOTAL ELECTRICAL INSTALLATION</b>				



ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
<b>L.</b>	<b>PLUMBING &amp; SANITARY INSTALLATION</b> (PROVISIONAL)				
1	PVC 1 1/2" pipe	2	PC'S		
2	Elbow 1 1/2" pvc	5	PC'S		
3	Tee 1 1/2" pvc	3	PC'S		
4	Plug 1 1/2" pvc	2	PC'S		
5	Flexible pipe 1/2"	2	PC'S		
6	Elbow 1/2" IPS	5	PC'S		
7	Nipple -1/2" IPS	8	PC'S		
8	Seal tape	7	PC'S		
9	WC squatting Complete with P trap -Asian	4	PC'S		
11	Kitchen sink - double bowl; Heavy duty	4	PC'S		
12	PVC Elbow 4"	7	PC'S		
13	PVC pipe 4" -CLASS C	4	PC'S		
14	PVC vent	2	PC'S		
15	IPS pipe 1/2"	2	PC'S		
16	Elbow 1/2" IPS	20	PC'S		
17	Tee 1 1/2" IPS	5	PC'S		
18	Nipple -IPS	3	PC'S		
19	Tread tap	7	PC'S		
20	Toilet aper holder	4	PC'S		
21	PVC clamp -4"	3	PC'S		
22	Hands wash basin complete with 6" Levers operating for elbow control and its accessories	9	PC'S		
23	Mirror	9	PC'S		
	<b>SUB-TOTAL FOR PLUMBING AND SANITARY INSTALLATION</b>				

	<u>GENERAL SUMMARY</u>	<b>AMOUNT</b>
		<b>TZS</b>
	<b><u>LABORATORY BUILDING</u></b>	
A.	SUBSTRUCTURE -PROVISIONAL	
B.	SUPER STRUCTURE	
C.	ROOF STRUCTURE & COVERING	
D.	CEILING	
E.	DOOR	
F.	WINDOWS	
G.	FINISHING	
H.	PAINTING & DECORATION	
J.	ELECTRICAL INSTALLATION	
K.	PLUMBING & SANITARY INSTALLATION (PROVISIONAL)	
	<b>TOTAL MATERIALS COST</b>	<b>TZS</b>

## **SCHEDULE OF LABOUR'S**

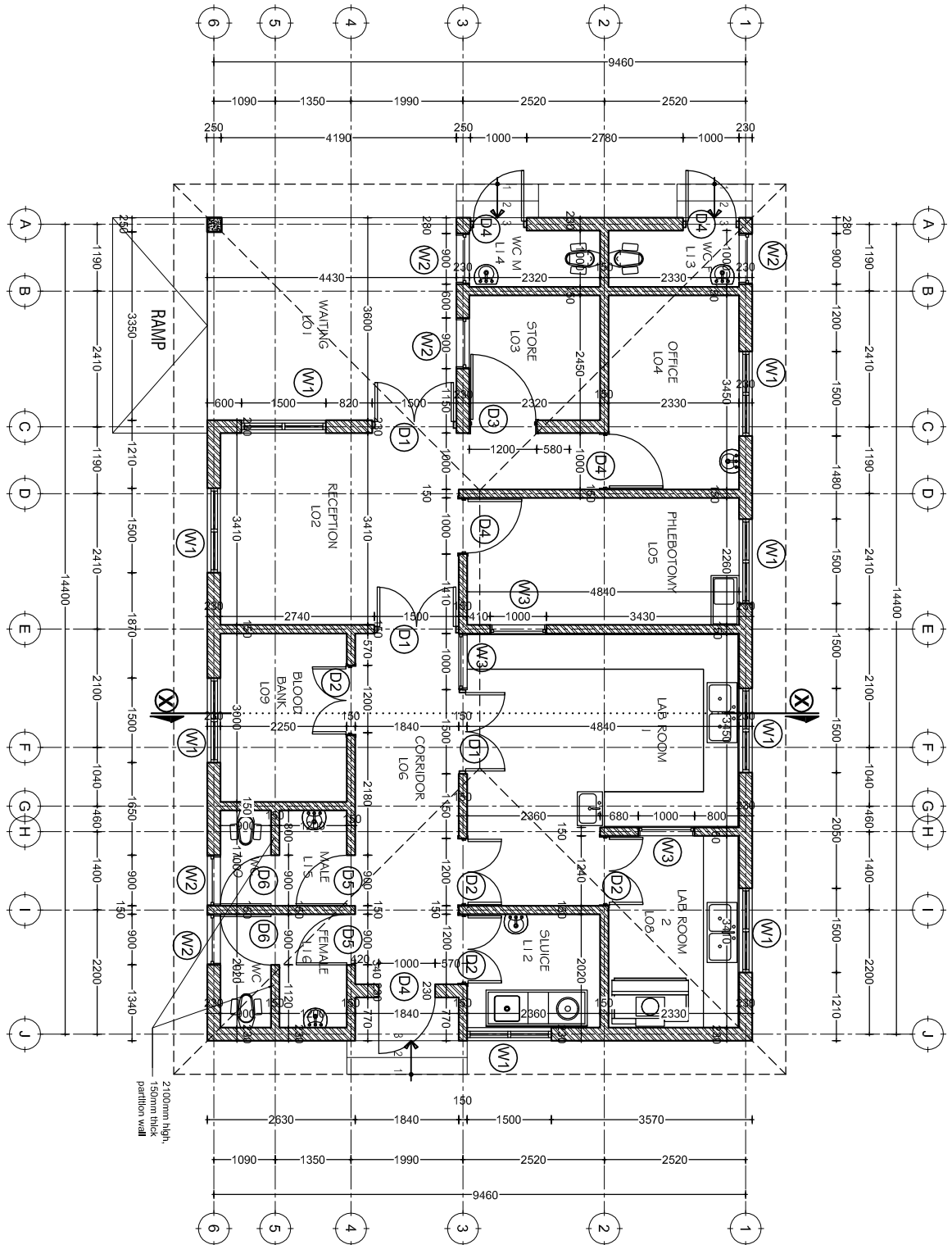
Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
<b>A</b>	<b>Msingi wa Jengo (Sub-structure)</b>	
1	Kuseti jengo	
2	Uchimbaji wa msingi	
3	Kufukia	
	<b>Kufunga mbaao</b>	
4	Pembezoni mwa jamvi	
5	Pembezoni mwa nguzo	
6	Kuondoa mbaao	
	<b>Kumwaga zege</b>	
7	Chini kwenye msingi wa tofali	
8	Chini kwenye msingi wa nguzo	
9	katika nguzo ya awali	
10	kwenye jamvi	
11	Ujenzi wa tofali (1316 No)	
	Mawe	
12	Upangaji wa mawe na utandazaji wa DPM	
13	Umwagiliaji wa maji	
	<b>Jumla ndogo msingi wa jengo</b>	
<b>B.</b>	<b>Kunyanyua jengo (Super-structure)</b>	
1	Ujenzi wa tofali za kuta na uwekaji DPC (2422 No)	
	<i>Kufunga mbaao katika:</i>	
2	Nguzo mlalo	
3	Nguzo wima	
	<i>Kusuka nondo katika:</i>	
4	Nguzo mlalo	
5	Nguzo wima	
	<i>Kumwaga zege katika:</i>	
6	Nguzo mlalo	
7	Nguzo wima	
<b>C.</b>	<b>Kuezeka (Roof structure and covering)</b>	
	Kuezeka na ufungaji wa gata	
	<b>Jumla ndogo kunyanyua jengo</b>	

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
<b>D.</b>	<b>Milango</b>	
1	Kufitisha fremu za milango	
2	Kufitisha shata za milango pamoja na vitasa	
3	Upakaji wa Varnishi katika milango na fremu	
<b>E.</b>	<b>Umaliziaji (Finishing)</b>	
	<i>Upigaji wa lipu pamoja na kutengeneza koplo:</i>	
1	Nje ya jengo	
2	Ndani ya jengo	
	Sakafu	
3	Uwekaji wa sakafu ya kupokea vigae (beds)	
4	Uwekaji wa vigae pamoja na grauti katika sakafu (floor tiles) -	
	<i>Dali:</i>	
6	Ufungaji wa mbao za dali (Branding)	
7	Uwekaji wa dali na mikanda ya gypsum	
8	Uwekaji wa dali ya pvc kuzunguka nyumba kwa nje	
9	Uwekaji wa vigae katika kuta na upakaji grout	
	<b>Jumla ndogo umaliziaji(finishing)</b>	
<b>F.</b>	<b>Rangi na Mapambo (Painting &amp; Decoration)</b>	
	<i>Kupaka rangi mikono mitatu pamoja na skimming katika:</i>	
1	Kuta za nje	
2	Kuta za ndani	
3	Dali	
	<i>Kupaka rangi mikono mitatu katika:</i>	
5	Msingi wa nyumba	
6	Grill za milango na madirisha	
	<b>Jumla ndogo Rangi na mapambo</b>	
<b>G.</b>	<b>Umeme (Electrical installation)</b>	
1	Usukaji wa umeme awamu ya kwanza - Conduit na Box	
2	Usukaji wa umeme awamu ya pili (2nd fix)-fittings	
	<b>Jumla ndogo Umeme</b>	

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
H.	<b>Mifumo ya maji safi na taka (Water Supply and Sewage system)</b>	
1	Ufungaji bomba awamu ya kwanza (Kuchimbia bomba)	
2	Ufungaji bomba awamu ya pili (2nd fix) -fittings	
3	Ufungaji wa Mifumo ya maji ya mvua kwenda kwenye tanki	
	<b>Jumla ndogo Mifumo ya maji safi na taka</b>	
	<b>MAJUMUISHO (SUMMARY)</b>	
	A. Msingi wa Jengo (Sub-structure)	
	B. Kunyanyua jengo (Super-structure)	
	C. Kuezeka (Roof structure and covering)	
	D. Milango	
	E. Umaliziaji (Finishing)	
	F. Rangi na Mapambo (Painting & Decoration)	
	G. Umeme (Electrical installation)	
	H. Mifumo ya maji safi na taka (Water Supply and Sewage system)	
	<b>JUMLA Shs.</b>	

# DRAWINGS

DOOR & WINDOW SCHEDULE			
NO.	WIDTH	HEIGHT	TOTAL
D1	1500mm	2500mm	3
D2	1200mm	2500mm	4
D3	1200mm	2500mm	1
D4	1000mm	2500mm	5
D5	900mm	2500mm	2
D6	900mm	2100mm	2
W1	1500mm	1500mm	8
W2	900mm	600mm	5
W3	1000mm	1500mm	3



**GROUND PLAN**  
**SCALE: 1:100**  
**TOTAL AREA = 142sqm**

Building Section  
 Policy and Planning Department  
 Ministry of Health, Community Development,  
 Gender, Elderly and Children  
 University of Dodoma  
 College of Humanities and Social Science | 11th  
 Building,  
 P. O. Box 743,  
 40478 DODOMA

No.	Description	Date

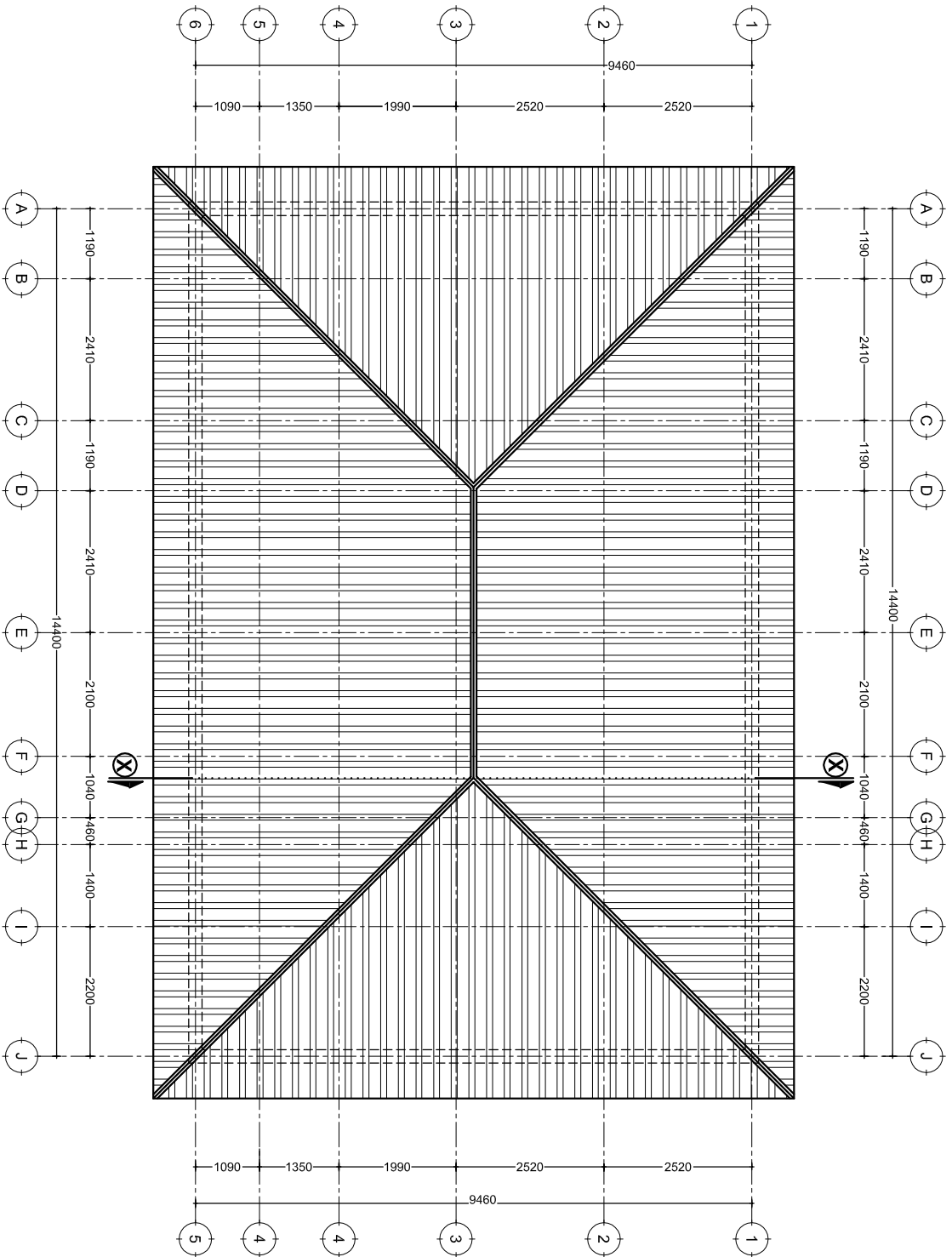
Client  
**PRESIDENT OFFICE, REGIONAL ADMINISTRATION  
 AND LOCAL GOVERNMENT**  
 Project  
**PROPOSED HEALTH CENTER**

LABORATORY BLOCK Ground Floor Plan		
Project number	2018 / 02 / 01	A / O / I
Date	02 FEBRUARY 2018	
Drawn by	DCNM	
Checked by	DCNM	Scale: 1: 100



# ROOF PLAN

SCALE: 1:100



Building Section  
 Policy and Planning Department  
 Ministry of Health, Community Development,  
 Gender, Elderly and Children  
 University of Dodoma  
 College of Humanities and Social Science 11th  
 Building,  
 P. O. Box 743,  
 40476 DODOMA

Approved

No.

Description

Date

Client  
 PRESIDENT OFFICE, REGIONAL ADMINISTRATION  
 AND LOCAL GOVERNMENT  
 Project  
 PROPOSED HEALTH CENTER

**LABORATORY BLOCK**  
 Roof Plan

Project number 2018 / 02 / 01

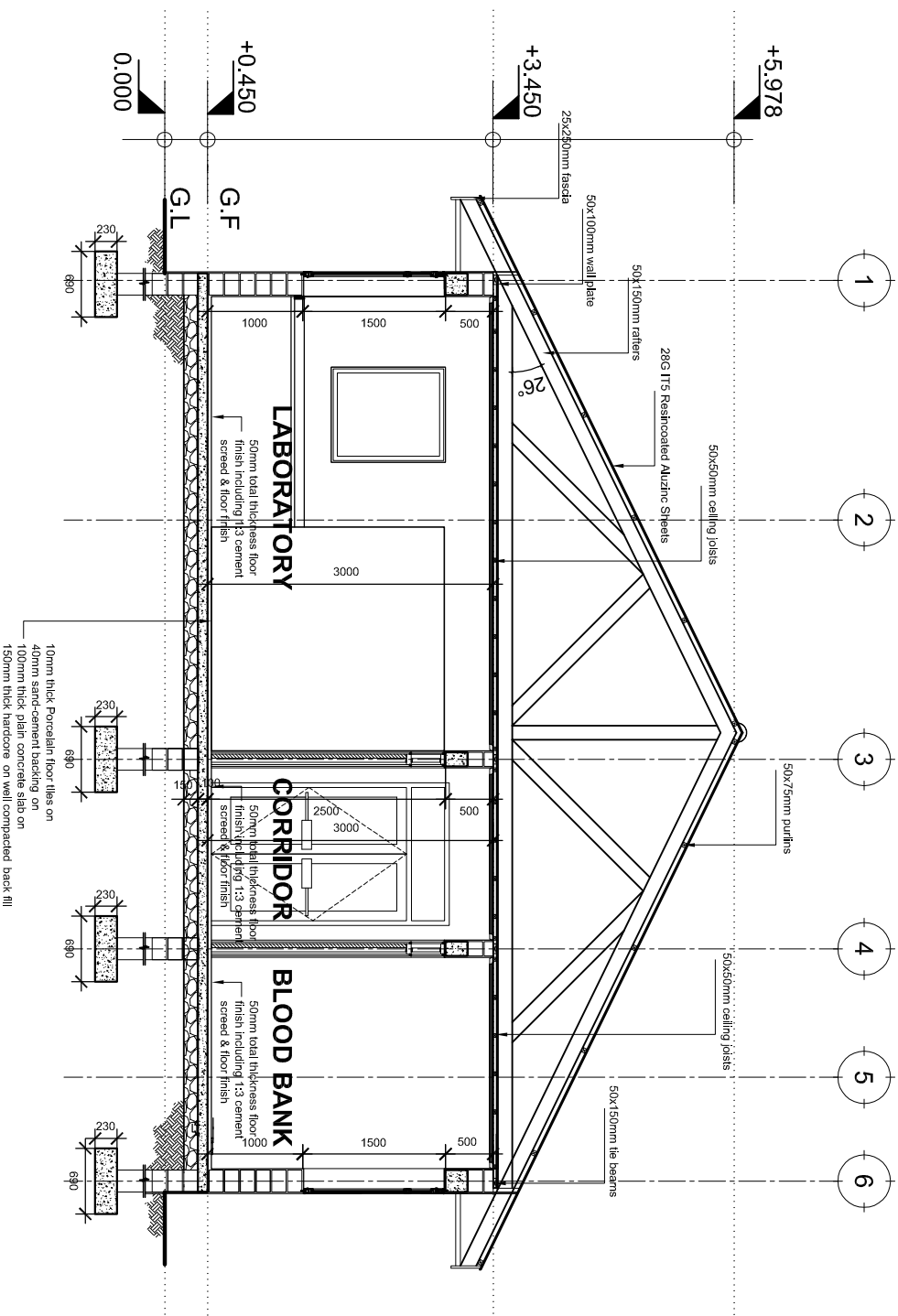
Date 02 FEBRUARY 2018

Drawn by DGNM

Checked by DGNM

A 102

Scale 1:100



**SECTION X:X**  
SCALE: 1:50

Building Section  
Policy and Planning Department  
Ministry of Health, Community Development,  
Gender, Elderly and Children  
University of Dodoma  
College of Humanities and Social Science 11th  
Building,  
P. O. Box 743,  
40478 DODOMA

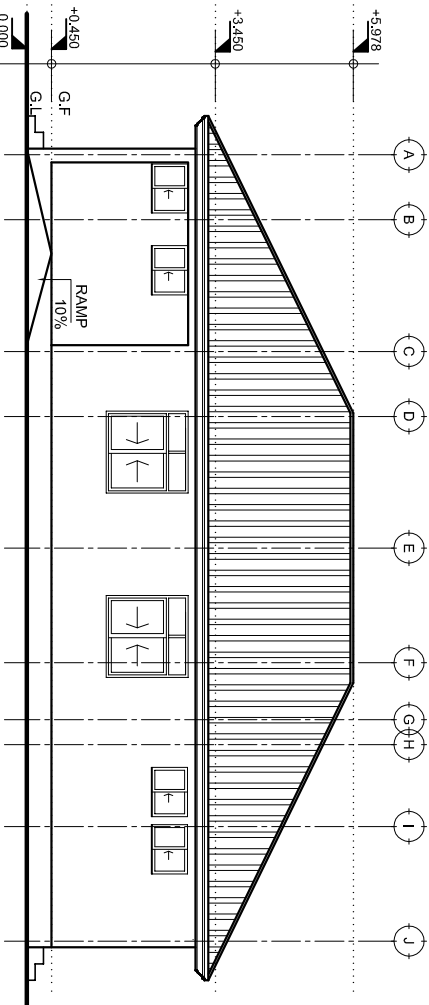
Approved

No.	Description	Date

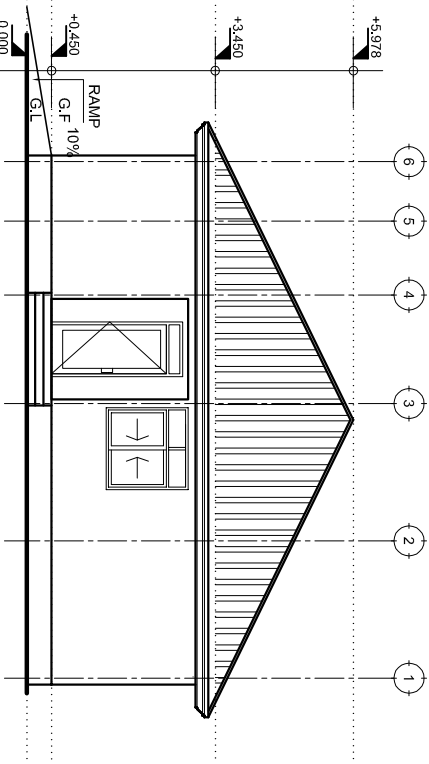
Client  
**PRESIDENT OFFICE, REGIONAL ADMINISTRATION  
AND LOCAL GOVERNMENT**

Project  
**PROPOSED HEALTH CENTER**

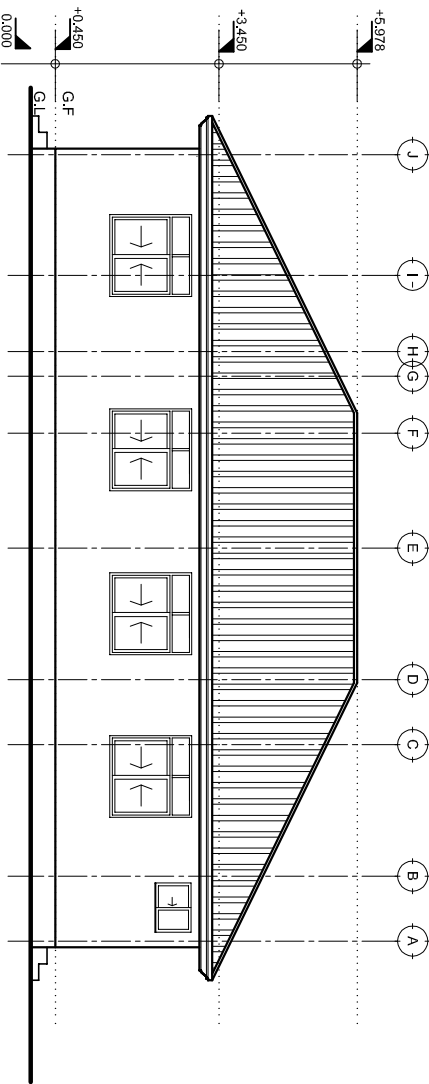
LABORATORY BLOCK Section X:X	
Project number	2018 / 02 / 01
Date	02 FEBRUARY 2018
Drawn by	DCNM
Checked by	DCNM
Scale	1:50
	A / 03



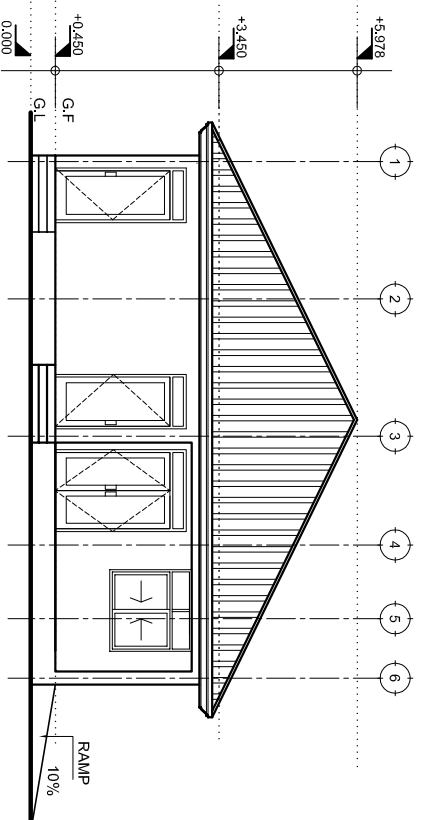
FRONT ELEVATION



RIGHT SIDE ELEVATION



REAR ELEVATION



LEFT SIDE ELEVATION

# ELEVATIONS

SCALE: 1:100

Building Section  
 Policy and Planning Department  
 Ministry of Health, Community Development,  
 Gender, Elderly and Children  
 University of Dodoma  
 College of Humanities and Social Science | 11th  
 Building,  
 P. O. Box 743,  
 40478 DODOMA

Approved

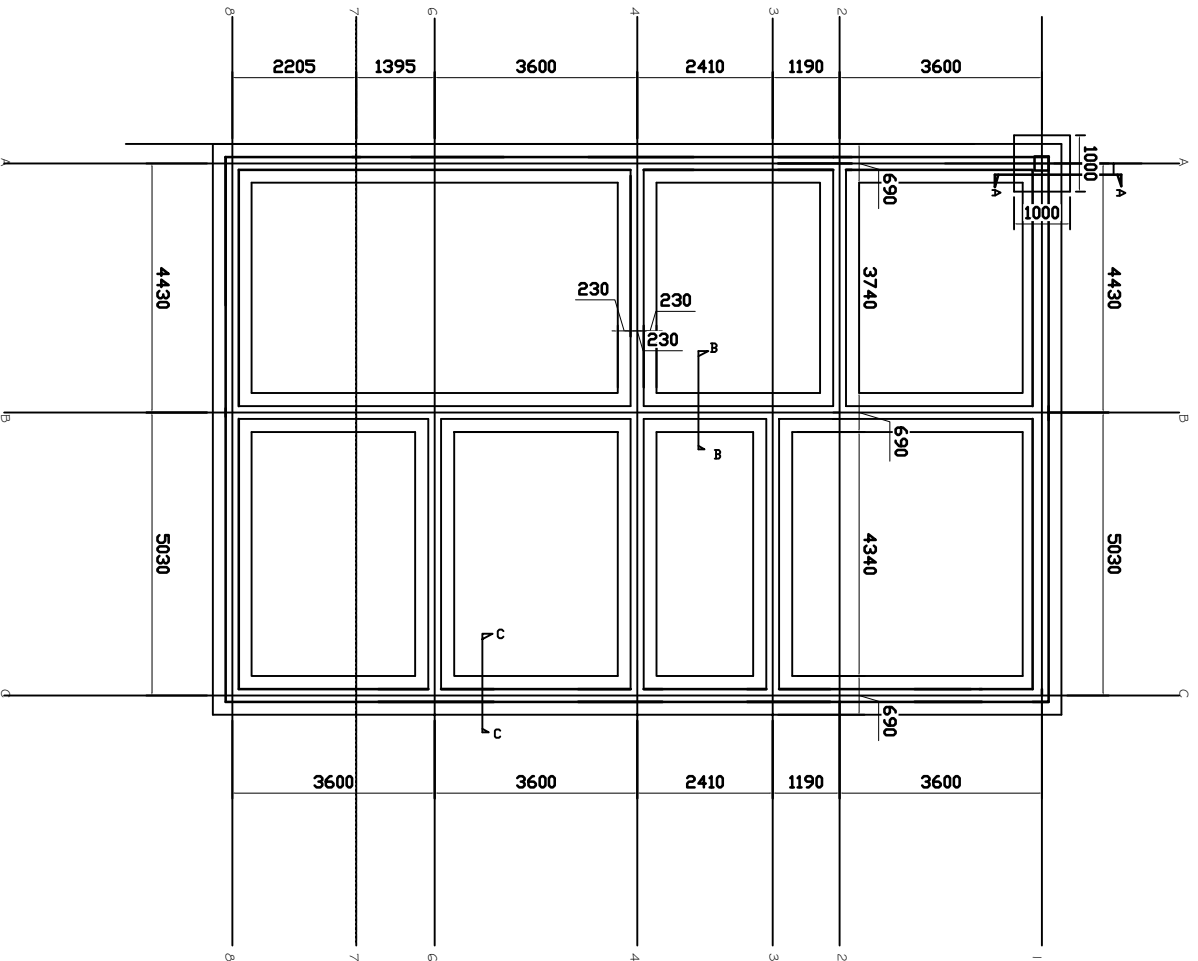
No.	Description	Date

Client  
 PRESIDENT OFFICE, REGIONAL ADMINISTRATION  
 AND LOCAL GOVERNMENT  
 Project  
 PROPOSED HEALTH CENTER

**LABORATORY BLOCK**  
 Elevations

Project number: 2018 / 02 / 01  
 Date: 02 FEBRUARY 2018  
 Drawn by: DGNM  
 Checked by: DGNM  
 Scale: 1:100

A | 04



**NOTE:**

1. All dimensions are in mm unless otherwise specified
2. All discrepancies shall be referred to the structural engineer
3. Reinforced concrete shall be of grade 20 with  $f_{cu}=25N/mm^2$  at 28 days of age
4. Main reinforcements shall be high tensile steel with  $f_y = 460N/mm^2$
5. Nominal cover to the reinforcements:
  - a) Foundation 50mm
  - b) Column 25mm
  - c) Beam 25mm
  - d) Slab 25mm

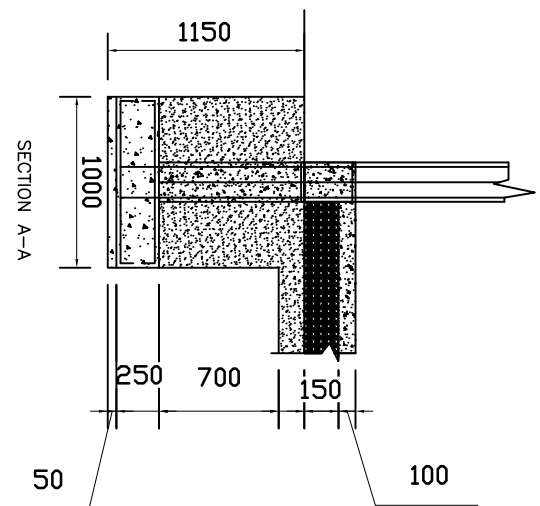
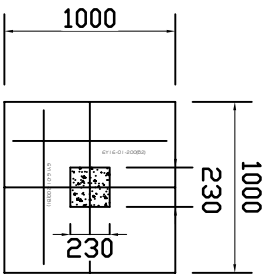
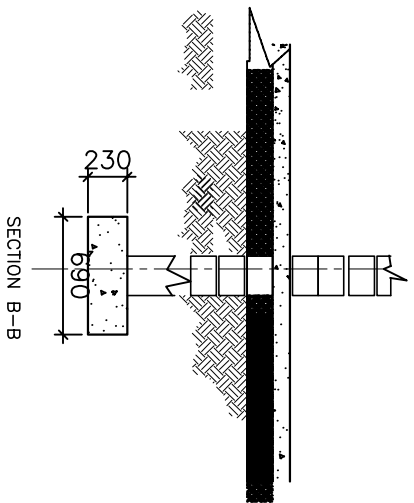
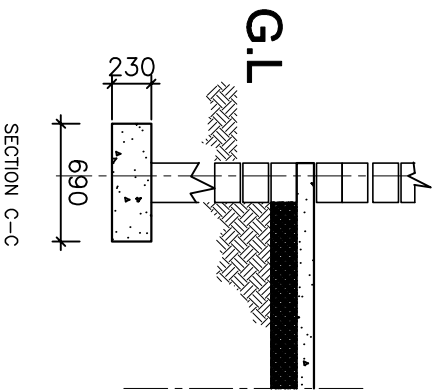
**PROJECT:**  
**PROPOSED REHABILITATION OF HEALTH CENTRE**

**CLIENT:**  
 PRESIDENT'S OFFICE  
 REGIONAL ADMINISTRATION  
 AND LOCAL GOVERNMENT

MINISTRY OF  
 HEALTH, COMMUNITY  
 DEVELOPMENT, GENDER,  
 ELDERLY AND CHILDREN

**DRAWING TITLE:**  
**LABORATORY  
 FOUNDATION LAYOUT**

Designed by:	Eng. Mkokya
Drawn by:	Eng. Mkokya
Checked by:	Eng. R.A.M
Approved by:	
Date:	2018
Drawing No.	STR,101
Sheet:	



**NOTE:**

1. All dimensions are in mm unless otherwise specified
2. All discrepancies shall be referred to the structural engineer
3. Reinforced concrete shall be of grade 25 with  $f_{cu}=25N/mm^2$  at 28 days of age
4. Main reinforcements shall be high tensile steel with  $f_y = 460N/mm^2$
5. Nominal cover to the reinforcements:
  - a) Foundation 50mm
  - b) Column 25mm
  - c) Beam 25mm
  - d) Slab 25mm

**PROJECT:**

**PROPOSED REHABILITATION OF HEALTH CENTRE**

**CLIENT:**

**PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION  
AND LOCAL GOVERNMENT**

**MINISTRY OF  
HEALTH, COMMUNITY  
DEVELOPMENT, GENDER,  
ELDERLY AND CHILDREN**

**DRAWING TITLE:**

**LABORATORY BLOCK  
FOUNDATION DETAILS**

Designed by: Eng. Mkojya

Drawn by: Eng. Mkojya

Checked by: Eng. R.A.M

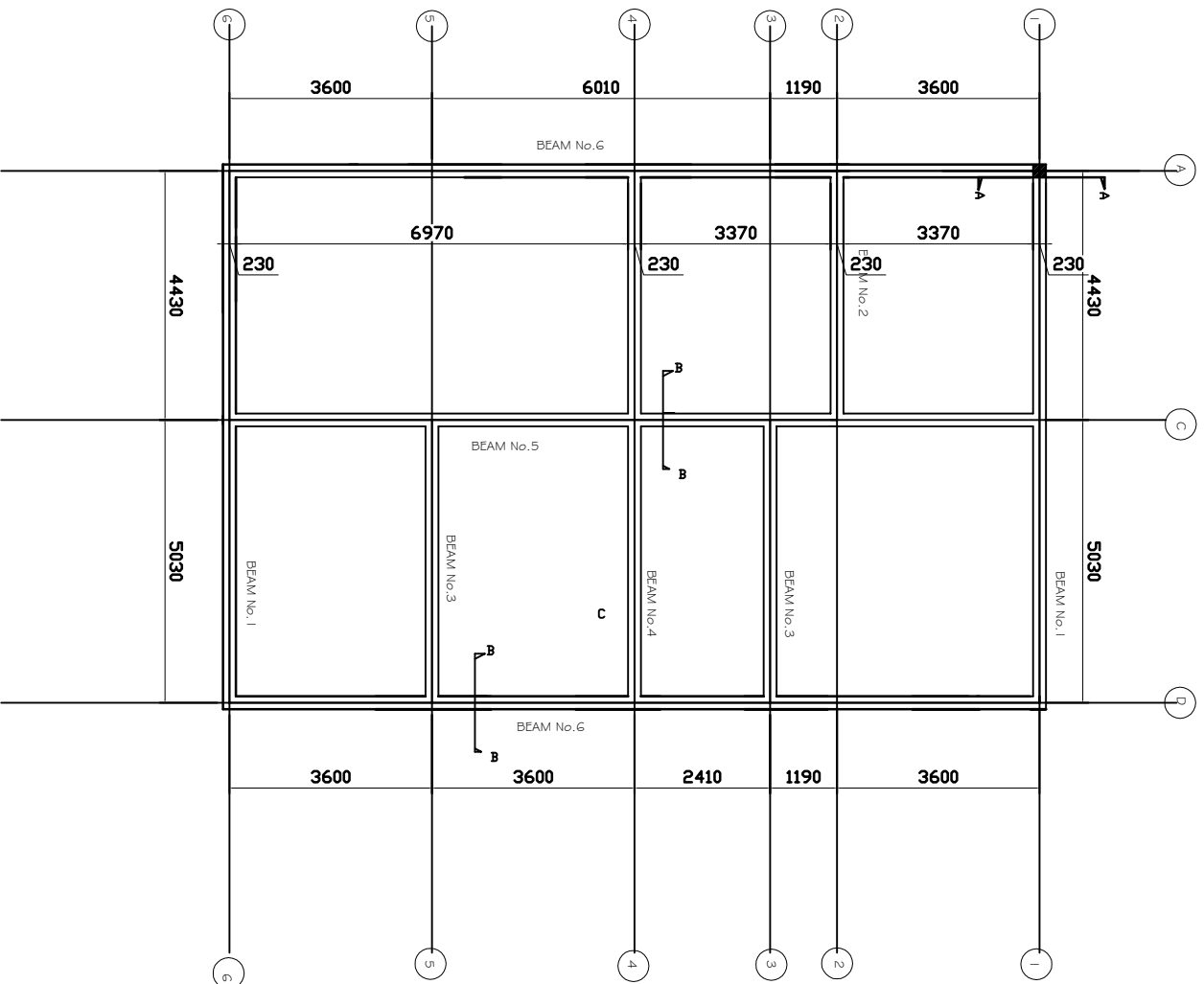
Approved by:

Date: **2018**

Scale:

Drawing No. **SRT.102**

Sheet:



**NOTE:**

1. All dimensions are in mm unless otherwise specified
2. All discrepancies shall be referred to the structural engineer
3. Reinforced concrete shall be of grade 25 with  $f_{cu}=25N/mm^2$  at 28 days of age
4. Main reinforcements shall be high tensile steel with  $f_y = 460N/mm^2$
5. Nominal cover to the reinforcements:
  - a) Foundation 50mm
  - b) Column 25mm
  - c) Beam 25mm
  - d) Slab 25mm

**PROJECT:**

**PROPOSED REHABILITATION OF HEALTH CENTRES**

**CLIENT:**

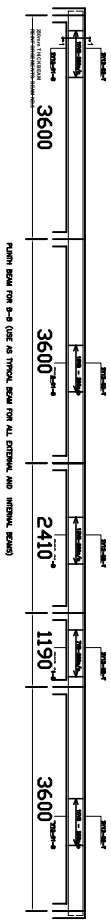
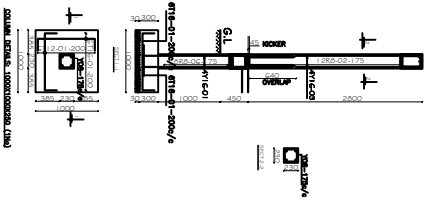
PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION  
AND LOCAL GOVERNMENT

**CONSULTANT:**

MINISTRY OF  
HEALTH, COMMUNITY  
DEVELOPMENT, GENDER,  
ELDERLY AND CHILDREN

**DRAWING TITLE:  
LABORATORY BLOCK  
PLINTH BEAM LAYOUT**

Designed by:	Eng. Mkojya
Drawn by:	Eng. Mkojya
Checked by:	Eng. R.A.M
Approved by:	
Date:	2018
Scale:	
Drawing No.	STR-103
Sheet	



**NOTE:**

1. All dimensions are in mm unless otherwise specified
2. All discrepancies shall be referred to the structural engineer
3. Reinforced concrete shall be of grade 25 with  $f_{cu}=25N/mm^2$  at 28 days of age
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5. Nominal cover to the reinforcements:
  - a) Foundation 50mm
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  - c) Beam 25mm
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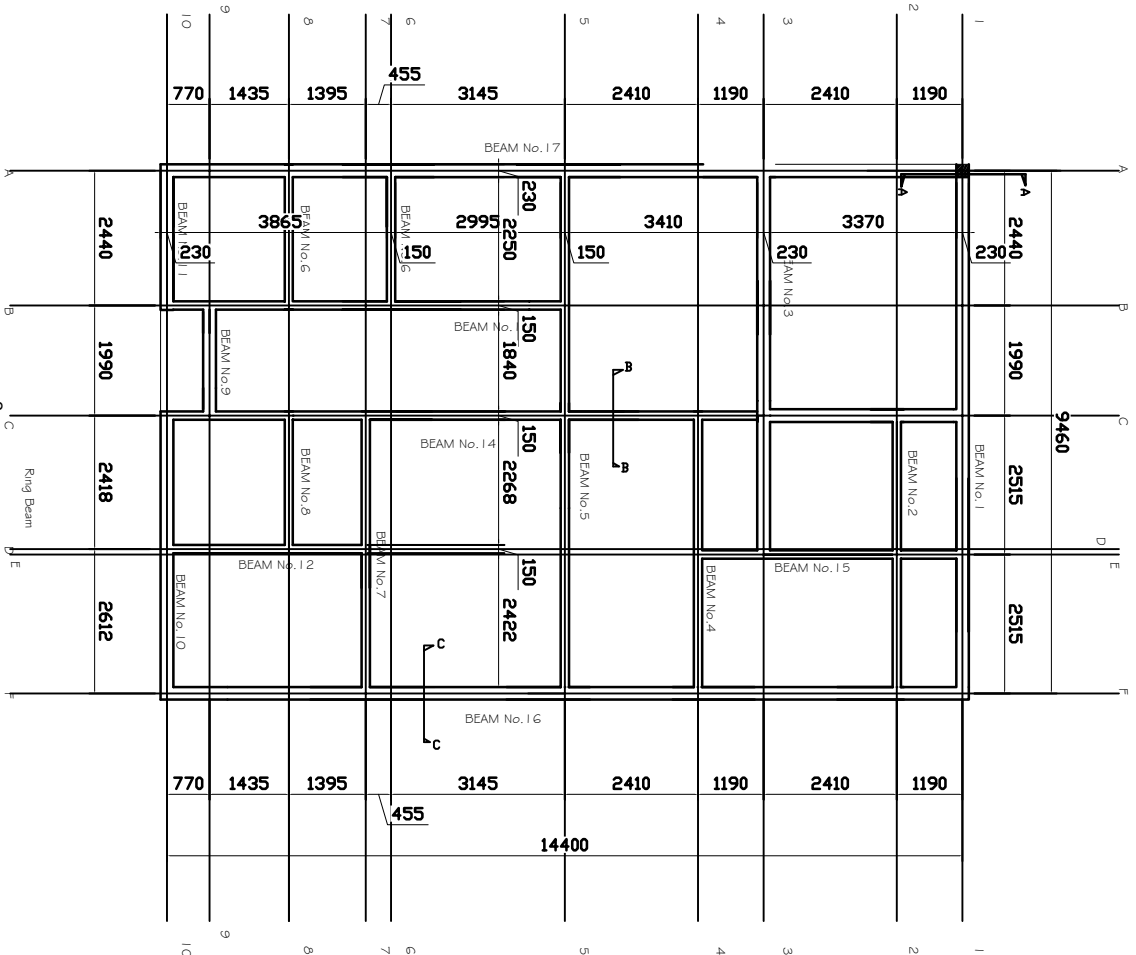
**PROJECT:**  
**PROPOSED REHABILITATION OF HEALTH CENTRE**

**CLIENT:**  
 PRESIDENT'S OFFICE  
 REGIONAL ADMINISTRATION  
 AND LOCAL GOVERNMENT

**CONSULTANT:**  
 MINISTRY OF  
 HEALTH, COMMUNITY  
 DEVELOPMENT, GENDER,  
 ELDERLY AND CHILDREN

**DRAWING TITLE:**  
 PLINTH BEAM AND COLUMN AND DETAILS FOR  
 LABORATORY BLOCK

Designed by:	Eng. Mkotya
Drawn by:	Eng. Mkotya
Checked by:	Eng. R.A.M
Approved by:	
Date:	2018
Scale:	
Drawing No.	STR.104
Sheet:	



A211

**NOTE:**

1. All dimensions are in mm unless otherwise specified
2. All discrepancies shall be referred to the structural engineer
3. Reinforced concrete shall be of grade 25 with  $f_{cu}=25N/mm^2$  at 28 days of age
4. Main reinforcements shall be high tensile steel with  $f_y = 460N/mm^2$
5. Nominal cover to the reinforcements:
  - a) Foundation 50mm
  - b) Column 25mm
  - c) Beam 25mm
  - d) Slab 25mm

**PROJECT:**  
**PROPOSED REHABILITATION OF HEALTH CENTRE**

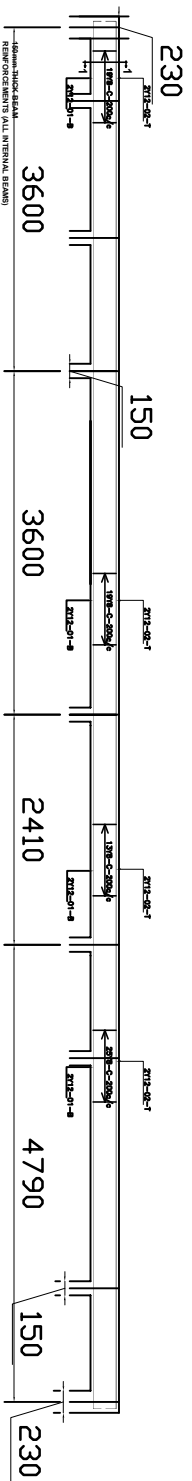
**CLIENT:**  
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 AND LOCAL GOVERNMENT

**CONSULTANT:**  
 MINISTRY OF  
 HEALTH, COMMUNITY  
 DEVELOPMENT, GENDER,  
 ELDERLY AND CHILDREN

**DRAWING TITLE:**  
 RINGBEAM LAYOUT FOR  
 LABORATORY BLOCK

Designed by:	Eng. Mkojya
Drawn by:	Eng. Mkojya
Checked by:	Eng. R.A.M
Approved by:	
Date:	2018
Drawing No.	STR.105
Sheet:	

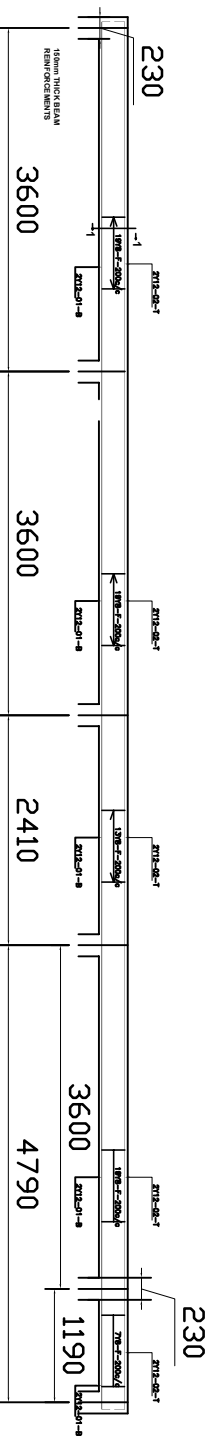




BEAM NO. 14 DETAILS: 14790 X150X250 (FOR ALL INTERNAL BEAMS)



TYPICAL 150mm THICK BEAM SECTION (FOR ALL INTERNAL BEAMS)



BEAM NO. 16 DETAILS: 14790 X230X250 (FOR ALL EXTERNAL WALLS)



TYPICAL 150mm THICK BEAM SECTION (FOR ALL EXTERNAL WALLS)

**NOTE:**

1. All dimensions are in mm unless otherwise specified
2. All discrepancies shall be referred to the structural engineer
3. Reinforced concrete shall be of grade 25 with  $f_{cu}=28\text{N/mm}^2$  at 28 days of age
4. Main reinforcements shall be high tensile steel with  $f_y = 460\text{N/mm}^2$
5. Nominal cover to the reinforcements:
  - a) Foundation 50mm
  - b) Column 25mm
  - c) Beam 25mm
  - d) Slab 25mm

**PROJECT:**

**PROPOSED REHABILITATION OF HEALTH CENTRE**

**CLIENT:**

PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION  
AND LOCAL GOVERNMENT

**CONSULTANT:**

MINISTRY OF  
HEALTH/COMMUNITY  
DEVELOPMENT,GENDER,  
ELDERLY AND CHILDREN

**DRAWING TITLE:**

**RING BEAM DETAILS FOR LABORATORY BLOCK**

Designed by: Eng. Mkojya

Drawn by: Eng. Mkojya

Checked by: Eng. R. A.M

Approved by:

Date: 2018

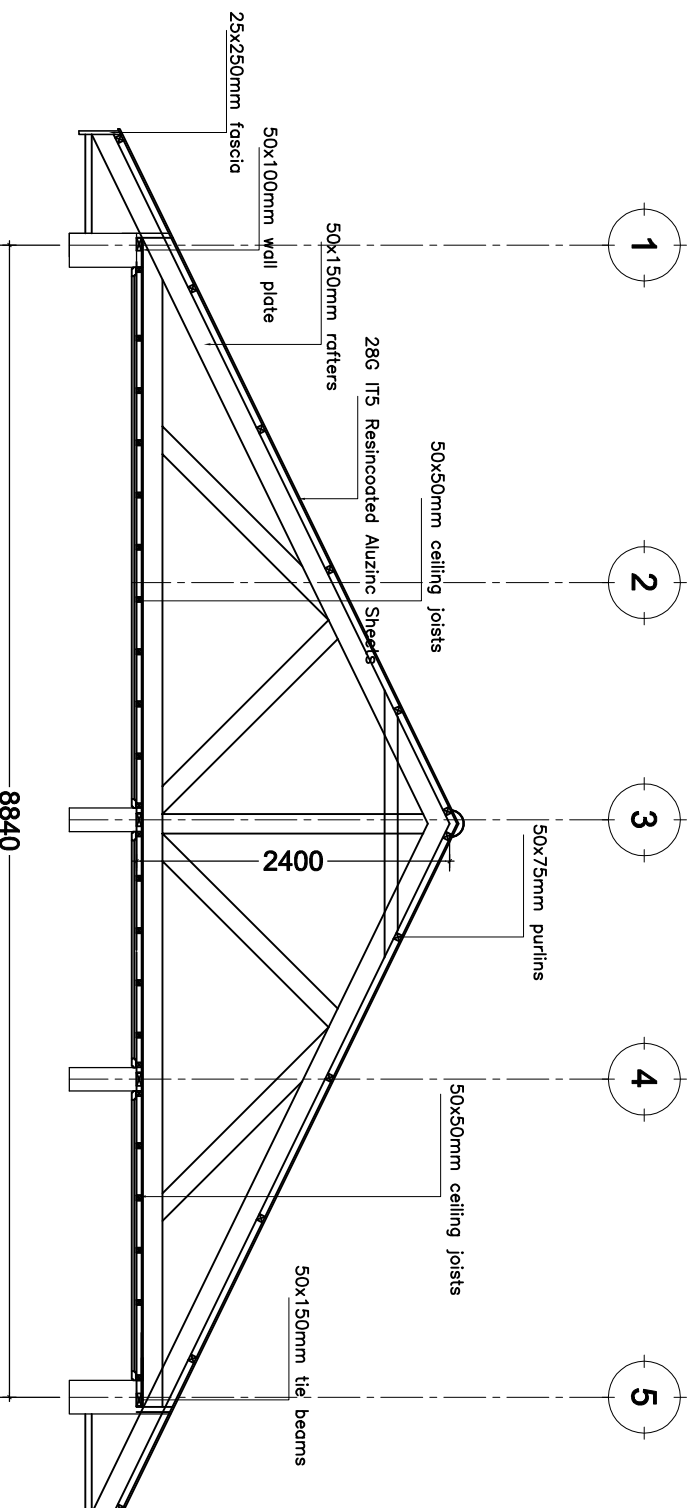
Scale:

Drawing No. STR.106

Sheet:







# TYPICAL TRUSS T 03

**NOTE:**

1. All dimensions are in mm unless otherwise specified
2. All discrepancies shall be referred to the structural engineer
3. Reinforced concrete shall be of grade 25 with  $f_{cu}=25N/mm^2$  at 28 days of age
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5. Nominal cover to the reinforcements:
  - a) Foundation 50mm
  - b) Column 25mm
  - c) Beam 25mm
  - d) Slab 25mm

**PROJECT:**  
**PROPOSED REHABILITATION OF HEALTH CENTRE**

**CLIENT:**  
**PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**

**MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN**

**DRAWING TITLE:**  
**TRUSS LAYOUT FOR LABORATORY BLOCK**

Designed by: Eng. Mko'ya

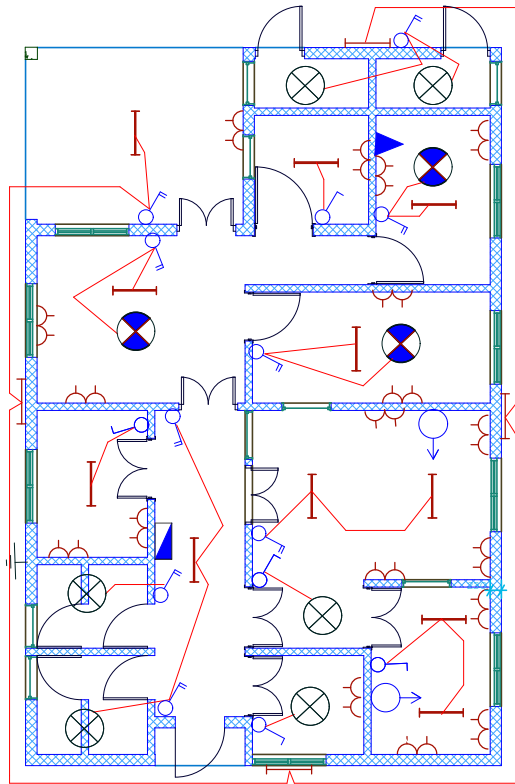
Drawn by: Eng. Mko'ya

Checked by: Eng. R.A.M

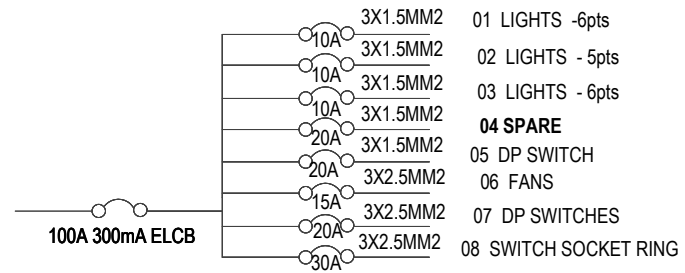
Approved by:

Date: **2018** Scale:

Drawing No. **STR,107** Sheet:



8WAYS TPN DISTRIBUTION BOARD LAB



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 Policy and Planning Department,  
 Ministry of Health, Community Development ,  
 Gender, Elderly and Children  
 6 Samora Machel Avenue  
 P.O. Box 9083, Dar es Salaam  
 Tel +25522234000/5  
 Fax +255222137591

Approved	NO	Description	Date




























CLIENT:-  
 PRESIDENT OFFICE, REGIONAL  
 ADMINISTRATION AND LOCAL  
 GOVERNMENT.

PROJECT:-  
 PROPOSED HEALTH CENTERS

ELECTRICAL PLAN  
 LABORATORY BLOCK

Project No	Scale 1:100
Date 3 FEB, 2018	
Drawn by EEC	
Checked by EEC	

ELECTRICAL SYMBOLS

	Fluorescent light fitting Single tube 1200mm		Water pump		Extract fan
	Fluorescent light fitting twin tube 1200mm		20A Double pole switch		
	Incandescent lamp		Electrical point		Telephone outlet direct line
	6A 1gang 1way switch		3PH Socket		Telephone outlet extension line
	6A 2gang 1way switch				TV outlet
	6A 3gang 1way switch				Ceiling mounted fan
	6A 3gang 1way switch				Fan regulator
	6A 1gang 2way switch				Earthing
	6A 2gang 2way switch				Miniature Circuit Breaker with rating
	6A 3gang 1way switch				Moulded Case Circuit Breaker with rating
	13A Switch socket outlet single				
	13A Switch socket outlet twin				
	Distribution board or Consumer unit as applicable				
	cooker control unit				

ELECTRICAL ABBREVIATIONS

SWA	Steel Wire Armoured
SPN	Single Phase & Neutral
TPN	Three Phase & Neutral
DB	Distribution Board

Building Section  
 Policy and Planning Department,  
 Ministry of Health, Community Development,  
 Gender, Elderly and Children  
 6 Samora Machel Avenue  
 P.O. Box 9083, Dar es Salaam  
 Tel +25522234000/5  
 Fax +255222137591

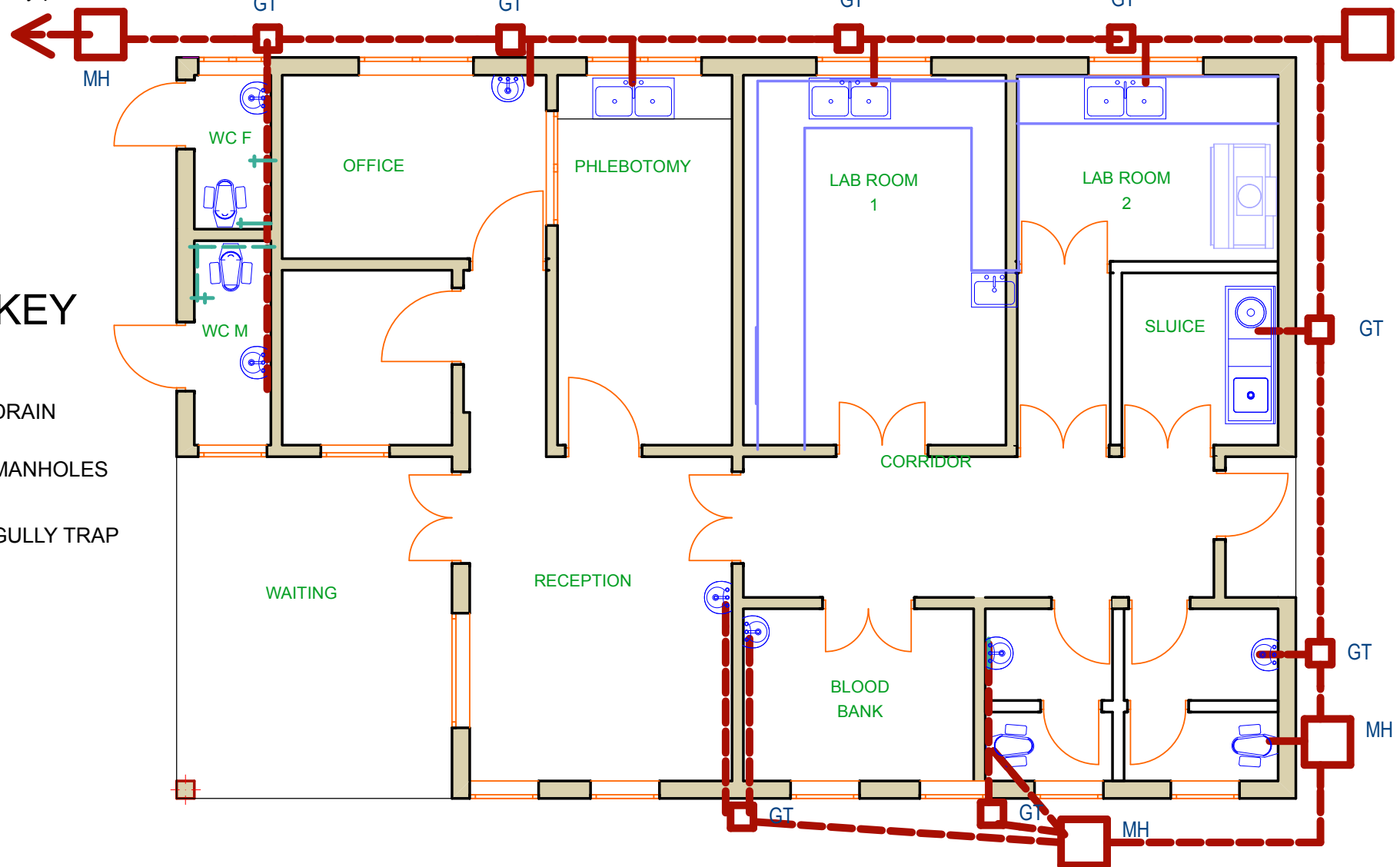
Approved	NO	Description	Date

CLIENT:-  
 PRESIDENTS OFFICE,  
 REGIONAL ADMINISTRATION AND  
 LOCAL GOVERNMENT.

PROJECT:-  
 PROPOSED HEALTH CENTER

ELECTRICAL PLAN	
ELECTRICALA SYMBOLS	
Project No	
Date	30 JAN, 2018
Drawn by	EEC
Checked by	EEC
Scale	1 : 100

To Septic tank and  
soak away pit



### KEY

- - - - - DRAIN
- ▭ MH MANHOLES
- ◻ GT GULLY TRAP

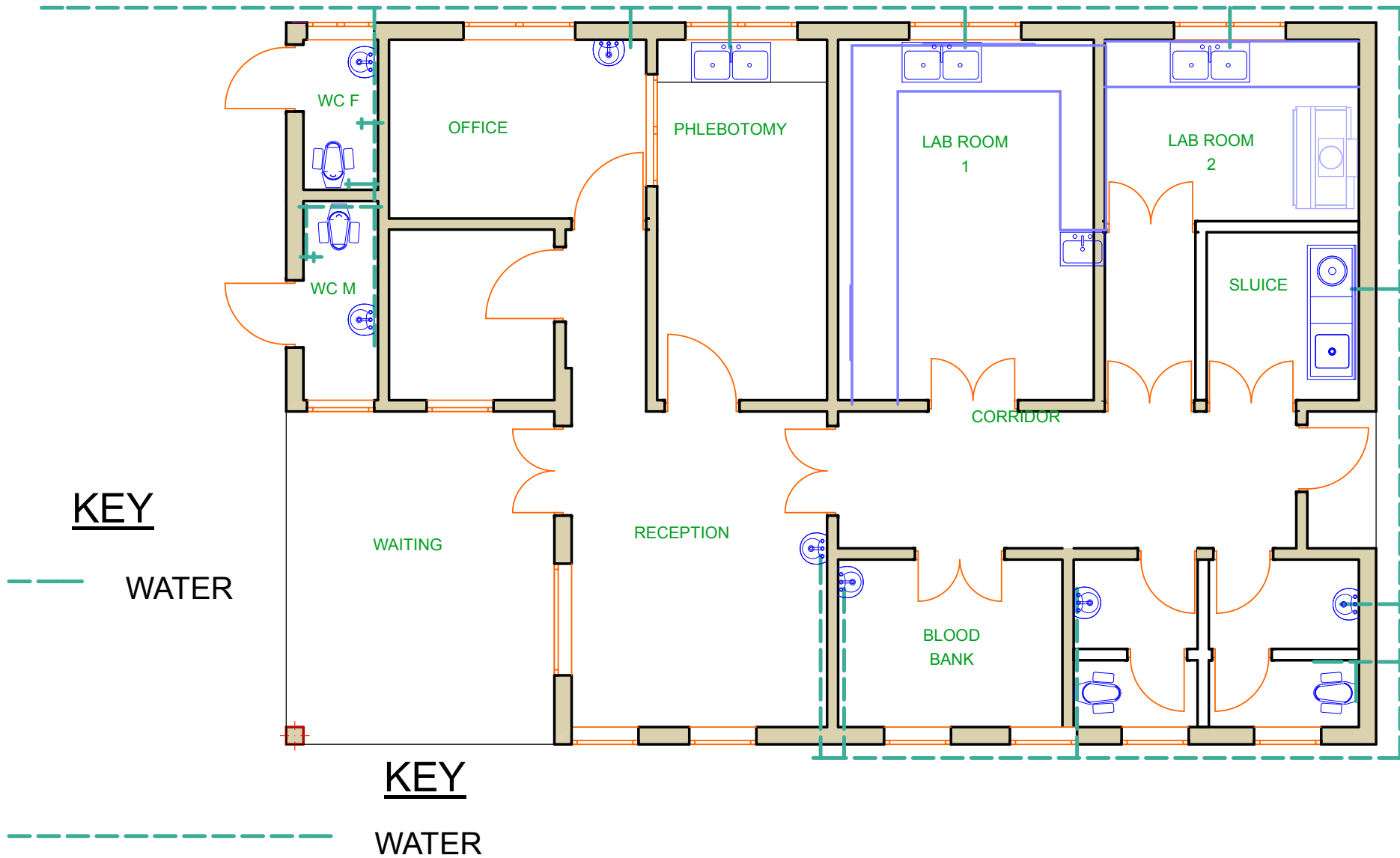
Building Section  
Policy and Planning Department  
Ministry of Health, Community Development,  
Gender, Elderly and Children,  
University of Dodoma,  
College of Humanities and Social Sciences 11th  
Building,  
P.O.Box 743,  
Dodoma

NO.	Description	Date

CLIENT  
PRESIDENT OFFICE,  
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT,  
PROJECT  
PROPOSED HEALTH CENTRES

LABORATORY BLOCK Drainage	
PROJECT NO.	
DATE JUNE, 2014	
DRAWN BY HASHIM	
CHECKED BY SUDI	

From main suppliers



**KEY**

--- WATER

**KEY**

--- WATER

Building Section  
 Policy and Planning Department  
 Ministry of Health, Community Development,  
 Gender, Elderly and Children,  
 University of Dodoma,  
 College of Humanities and Social Sciences 11th  
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 Dodoma

NO.	Description	Date

CLIENT  
 PRESIDENT OFFICE,  
 REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT,  
 PROJECT  
 PROPOSED HEALTH CENTRES

LABORATORY BLOCK Water supply	
PROJECT NO.	
DATE	JUNE, 2014
DRAWN BY	HASHIM
CHECKED BY	SUDI