

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED DISPENSARY

Schedule of Material, Labour & Drawings for External Toilet Block
(4Stances)

PROJECT AREA

TANZANIA MAINLAND

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

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

APRIL, 2018

PO-RALG

Schedule of Materials

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
A	SUB-STRUCTURE -PROVISIONAL				
1	<u>Strip Foundation - Grade 15 Plain</u>				
	Aggregate (3/4")	5	M ³		
	Sand	3	M ³		
	Cement-50kgs	25	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand Block	302	No		
	Sand	1.0	M ³		
	Cement -50kgs	4	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (4.5m ³ lorry)	1	Trips		
	Hadcore (4.5m ³ lorry)	1	Trips		
	Sand	3	M ³		
	Aldrin solution or equal and approved	189	Litres		
4	<u>Oversite Concrete (100mm thick - 15 grade) & Ground Beam - 20 grade</u>				
	DPM	23	M ²		
	Cement -50kgs	30	Bags		
	Aggregates (1/2")	5	M ³		
	Sand	3	M ³		
	Reinforcement - 16mm diameter high tensile	0	PC'S		
	Reinforcement - 12mm diameter high tensile	10	PC'S		
	Reinforcement - 8mm diameter	12	PC'S		
	Timber 1" X 8 " (5.2m long)	4	PC'S		
	Timber 2" X 2"	2	PC'S		
	Nails-4"	2	Kgs		
	Nails-3"	3	Kgs		
	Supporting props	3	PC'S		
	SUB-TOTAL SUBSTRUCTURE				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
B.	SUPERSTRUCTURE				
1	<u>Walls & Ring beam & Columns</u>				
	6" Cement & Sand Block	702	No		
	Cement & Sand hollow Block	0	No		
	DPC (20m long)	1	Roll		
	Sand	5	M ³		
	Cement-50kgs	40	Bags		
	Aggregates (1/2")	3	M ³		
	Reinforcement - 12mm diameter high tensile	10	PC'S		
	Reinforcement - 8mm diameter	12	PC'S		
	Binding Wire - 1kg	3	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	3	PC'S		
	Timber 1" X 5" (Plates)	1	PC'S		
	Timber 2" X 2"	2	PC'S		
	Supporting Props	5	PC'S		
	SUB-TOTAL SUPER STRUCTURE				
C.	ROOF STRUCTURE & COVERING				
1	<u>Roof Structure - Provisional</u>				
	Timber 2 " X 3" Purlins	78	FT		
	Timber 2" X 4" King Post, wall plate and struss	57	FT		
	Timber 2" X 6" Rafter and Tie beam	147	FT		
	Fascia board 1" X 10" (5.2m long)	4	PC'S		
	Nails -5"	5	Kgs		
	Nails -4"	4	Kgs		
	Nails -3"	4	Kgs		
	NOTE: The above softwood timber structure should be pressure impregnated treated				
2	<u>Roof Covering -as per ALAF or equal and approved</u>				
	28G IT resincoated sheet	41	M ²		
	Hips/Ridge and valley - 28 G	0	PC'S		
	Roofing Nails	5	Packet		
	SUB-TOTAL ROOF STRUCTURE & COVERING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
D.	DOOR				
1	<u>40mm thick hardwood panned door shutter</u>				
	900 x 2100 mm high	2	PC'S		
	800 x2100mm high	4	PC'S		
2	<u>Frames (hardwood),Varnish, Glass & Burglar bar</u>				
	900 x 2100mm high	2	PC'S		
	800 x 2100mm high	4	PC'S		
	4mm thick clear glass to Vents	0	M ²		
	16 mm burglar bars	0	PC'S		
	Brush 3"	2	Pcs		
	Sand paper (msasa) No.80	2	LM		
	Clear Varnish - 4Litres	1	TIN		
	Thinner for Varnish -4Litres	1	Litres		
3	<u>IronMongeries</u>				
	Mortice lock Three lever - ref: union	6	No		
	Brass hinges - 100mm	9.0	Pairs		
	Wood Screw	2	Box		
	SUB-TOTAL FOR DOORS				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E.	WINDOWS				
1	<u>Supply and fix Aluminium Windows 2mm thick frem with fibre glass, Mosquitor gauze and its ironmongeries</u>				
	1200 X 600mm high	2	PC'S		
	600 X 600mm high	4	PC'S		
2	<u>Supply and fix 4mm thick flat bar grill painted red-oxide</u>				
	1200 X 600mm high	2	PC'S		
	600 X 600mm high	4	PC'S		
	SUB-TOTAL FOR WINDOWS				
F.	FINISHING				
1	<u>Floor finishing - (ratio 1:6)</u>				
	Sand	2	M ³		
	Cement-50kgs	6	Bags		
	600 x 600Non slippery Porcelain floor tiles (1.46 Sqm/Box)	10	Box		
	Skirting (600 mm long; 25No/Box)	3	Box		
	Grout (1kg/packet)	3	Packet		
	Spacer	1	Packet		
2	<u>Wall Finishing</u>				
	Sand	5	M ³		
	Cement-50kgs	27	Bags		
	White cement - 50kg	3	Bags		
	Gypsum powder	3	Bags		
	300 x 300mm ceramic wall tiles (1.08 Sqm/Box)	5	Box		
	Sand paper Msasa No.120	1.0	Roll		
	SUB-TOTAL FOR FINISHING				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
G.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	2	buckets		
	Weather guard Paint - 20 LTRS	2	buckets		
	Washable paint -20 LTRS (Light blue green)	1	buckets		
	Primer paint -20 LTRS	1	buckets		
	Solvent - 5LTRS	1	TIN		
	Brush 3"	2	Pcs		
	Roller	2	Pcs		
	Gloss paint-4LTR	1	TIN		
	Bitumen paint - 4Litres	2	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				
H.	<u>PIT (SEPTIC TANK) FOR PIT LATRINE</u>				
	6" Cement & Sand Block	644	No		
	Sand	8	M ³		
	Cement-50kgs	72	Bags		
	Aggregates (1/2")	8	M ³		
	Reinforcement - 12mm diameter high tensile	6	PC'S		
	Reinforcement - 8mm diameter	5	PC'S		
	Binding Wire - 1kg	3	Bundle		
	Timber 1" X 8" to Sides (5.2m long)	3	PC'S		
	Timber 1" X 5" (Plates)	1	PC'S		
	Timber 2" X 2"	2	PC'S		
	Supporting Props	8	PC'S		
	100mm diameter PVC vent pipe 3000mm high com	1	PC'S		
	SUB-TOTAL SUPER STRUCTURE				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
J	ELECTRICAL INSTALLATION				
1	Single flourescent fitting, approved philips or equal	4	No		
2	Double flourescent fitting, approved philips or equal	0	No		
3	Double switch sorcket	0	No		
4	Main switch 12way,3PH with intergral RCD as MEM or equal	0	No		
5	Single core wire 1.5sqmm -Red	0.1	Roller		
6	Single core wire 1.5sqmm -Black	0.1	Roller		
7	Single core wire 1.5sqmm -green	0.1	Roller		
8	Single core wire 2.5sqmm -Red	0	Roller		
9	Single core wire 2.5sqmm -Black	0	Roller		
10	Single core wire 2.5sqmm Green	0	Roller		
11	Ceilling fan, approved National or equal	0	PC'S		
12	16mmsq 4 core cable	0	M		
13	1gang one way switch	0	No		
14	2gang two way switch	2	No		
15	20A DP switch	0	No		
16	Lan socket	0	No		
17	Gypsum light complete with energy saver 18w	0	No		
18	Earth rod approved copper not less than 1200mm	0	No		
19	Earth wire 4sqmm	0	M		
20	Plastic clips (22mm)	0	BOX		
21	Conduit pipe	6	PC		
22	Square box metal	0	PC		
23	Double box metal	0	PC		
23	Metal box single	4	PC		
24	Round cover	2	PC		
25	Junction box	3	PC		
26	Elbow	3	PC		
27	Conduit coupling	0	PC		
28	Fine screw	0	Packet		
29	Round Box	2	PC		
30	TV Socket	0	PC		
	SUB-TOTAL FOR ELECTRICAL INSTALLATION				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
K	PLUMBING & SANITARY INSTALLATION-PROVISIONAL				
1	IPS pipe 3/4"	7	M		
2	IPS Elbow 1/2"	4	PC'S		
3	IPS Elbow 3/4"	8	PC'S		
4	IPS 1/2"	1	PC'S		
5	IPS 3/4"	1	PC'S		
6	IPS runion 3/4"	4	PC'S		
7	Tee connector 3/4"	3	PC'S		
8	connector 3/4"	1	PC'S		
9	IPS socket 3/4"	1	PC'S		
10	IPS socket 1/2"	4	PC'S		
11	Bib tape pex 1/2"	4	PC'S		
12	Stop cock pex '1"	1	PC'S		
13	Thread seal tape	10	PC'S		
14	P- trap 4'	4	PC'S		
15	Tangit	1	TIN		
16	PVC socket with Female threads 1 ^{1/4} "	4	PC'S		
17	Wcs complete	4	PC'S		
18	100mm diameter PVC vent pipe 3000mm high com	2	PC'S		
19	PVC socket with Female threads 1 ^{1/2} "	4	PC'S		
	SUB-TOTAL FOR PLUMBING AND SANITARY INSTALLATION				

	GENERAL SUMMARY	AMOUNT
		TZS
	<u>EXTERNAL TOILET BLOCK (4NR) -DISPENSARY</u>	
A.	SUB-STRUCTURE -PROVISIONAL	
B.	SUPERSTRUCTURE	
C.	ROOF STRUCTURE & COVERING	
D.	DOOR	
E.	WINDOWS	
F.	FINISHING	
G.	PAINTING & DECORATION	
H	PIT (SEPTIC TANK) FOR PIT LATRINE	
J.	ELECTRICAL INSTALLATION	
K.	PLUMBING & SANITARY INSTALLATION-PROVISIONAL	
	MATERIAL COST	
	TOTAL MATERIALS COST FOR FOUR BLOCKSX	4

Schedule of Labour

Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
A	<u>Msingi wa Jengo (Sub-structure)</u>	
1	Kuseti jengo	
2	Uchimbaji wa msingi	
3	Kufukia	
	<u>Kufunga mbao</u>	
4	Pembezeni mwa jamvi	
5	Pembezeni mwa nguzo	
6	Kuondoa mbao	
	<u>Kumwaga zege</u>	
7	Chini kwenye msingi wa tofali	
8	Chini kwenye msingi wa nguzo	
9	katika nguzo ya awali	
10	kwenye jamvi	
11	Ujenzi wa tofali za msingi (302 No)	
	<u>Mawe</u>	
12	Upangaji wa mawe na utandazaji wa DPM	
13	Umwagiliaji wa maji	
	Jumla ndogo msingi wa jengo	
B.	<u>Kunyanyua jengo (Super-structure)</u>	
1	Ujenzi wa tofali za kuta na uwekaji DPC (702 No)	
	<u>Kufunga mbao katika:</u>	
2	Nguzo mlalo	
3	Nguzo wima	
	<u>Kusuka nondo katika:</u>	
4	Nguzo mlalo	
5	Nguzo wima	
	<u>Kumwaga zege katika:</u>	
6	Nguzo mlalo	
7	Nguzo wima	
8	Umwagiliaji wa maji	
C.	<u>Kuezeka (Roof structure and covering)</u>	
1	Kuezeka na ufungaji wa gata	
	Jumla ndogo kunyanyua jengo	
D.	<u>Milango</u>	
1	Kufitisha fremu za milango	
2	Kufitisha shata za milango pamoja na vitasa	
3	Upakaji wa Varnishi katika milango na fremu	
E.	<u>Umalizaji (Finishing)</u>	
	<i>Upigaji wa lipu pamoja na kutengeneza koplo:</i>	
1	Nje ya jengo	
2	Ndani ya jengo	
	<u>Sakafu</u>	
3	Uwekaji wa sakafu ya kupokea vigae (beds)	
4	Uwekaji wa vigae pamoja na grauti katika sakafu (floor tiles) -	

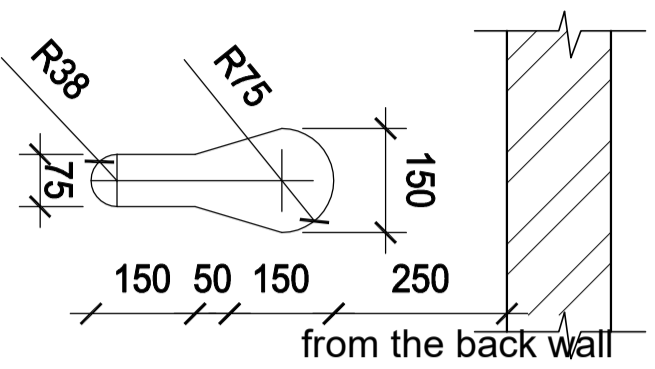
Na.	AINA YA KAZI	BEI YA UFUNDI - Shs
	<u>Dali:</u>	
6	Ufungaji wa mbao za dali (Branding)	
7	Uwekaji wa dali na mikanda ya gypsum	
8	Uwekaji wa dali ya pvc kuzunguka nyumba kwa nje	
9	Uwekaji wa vigae katika kuta na upakaji grout	
	Jumla ndogo umaliziaji(finishing)	
F.	<u>Rangi na Mapambo (Painting & Decoration)</u>	
	<u>Kupaka rangi mikono mitatu pamoja na skimming katika:</u>	
1	Kuta za nje	
2	Kuta za ndani	
3	Dali	
	<u>Kupaka rangi mikono mitatu katika:</u>	
4	Msingi wa nyumba	
5	Grill za milango na madirisha	
	Jumla ndogo Rangi na mapambo	
G.	<u>Umeme (Electrical installation)</u>	
1	Usukaji wa umeme awamu ya kwanza - Conduit na Box	
2	Usukaji wa umeme awamu ya pili (2nd fix)-fittings	
	Jumla ndogo Umeme	
H.	<u>Mifumo ya maji safi na taka (Water Supply and Sewage system)</u>	
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	
	Jumla ndogo Mifumo ya maji safi na taka	

MAJUMUISHO (SUMMARY)		Shs
A.	Msingi wa Jengo (Sub-structure)	
B.	Kunyanyua jengo (Super-structure)	
C.	Kuezekata (Roof structure and covering)	
D.	Milango	
E.	Umalizijaji (Finishing)	
F.	Rangi na Mapambo (Painting & Decoration)	
G.	Umeme (Electrical installation)	
H.	Mifumo ya maji safi na taka (Water Supply and Sewage system)	
JUMLA KUU Shs.		

ANGALIZO:

Fundi anatakiwa kujaza hii fomu kwa kupitia mchoro wa jengo husika

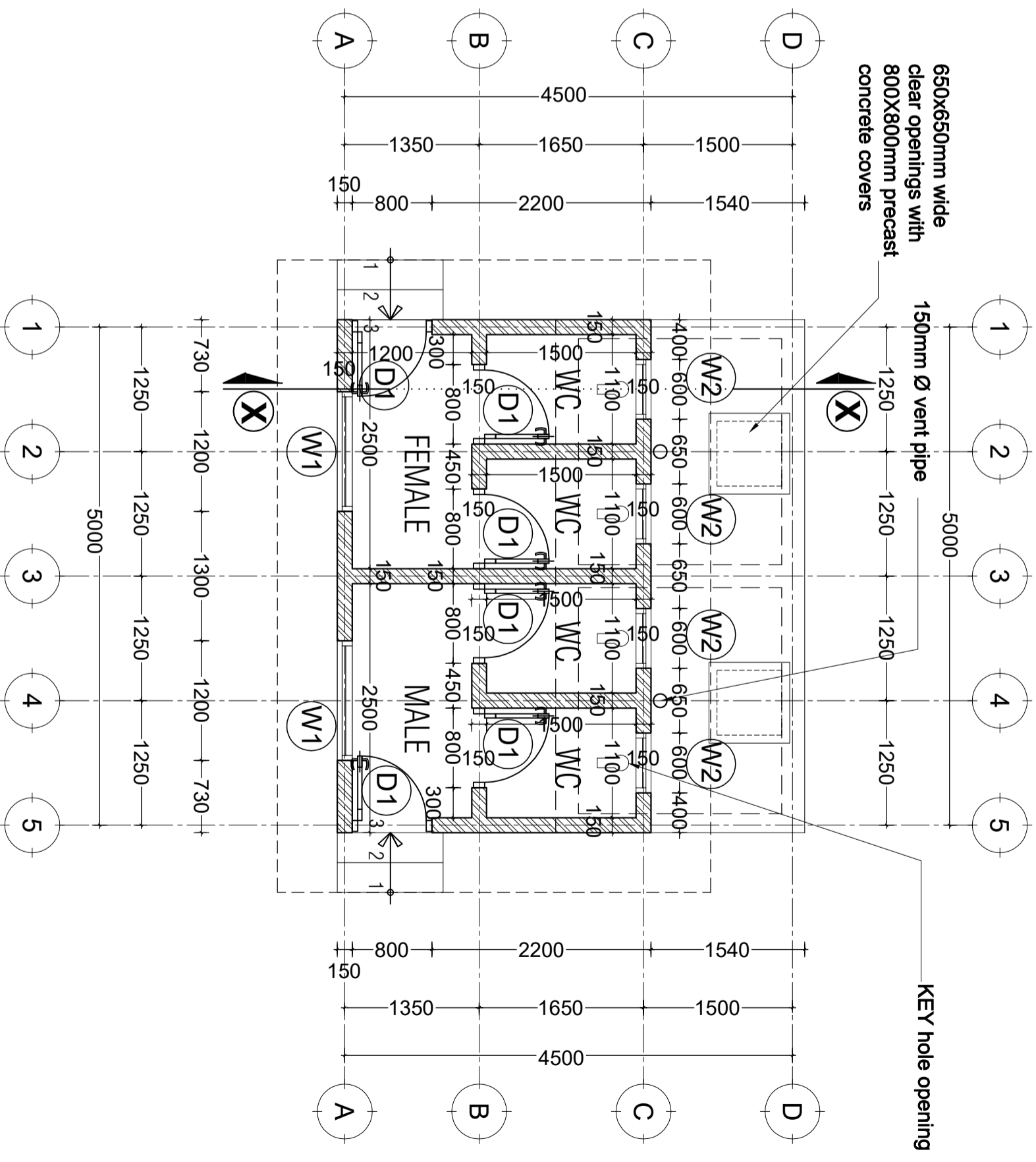
Drawings



KEY HOLE OPENING DETAIL
SCALE 1:20

DOOR & WINDOW SCHEDULE			
NO.	WIDTH	HEIGHT	TOTAL
D1	800mm	2100mm	6
W1	1200mm	600mm	2
W2	600mm	600mm	4

GROUND PLAN
SCALE: 1:50
TOTAL AREA = 16.22sqm



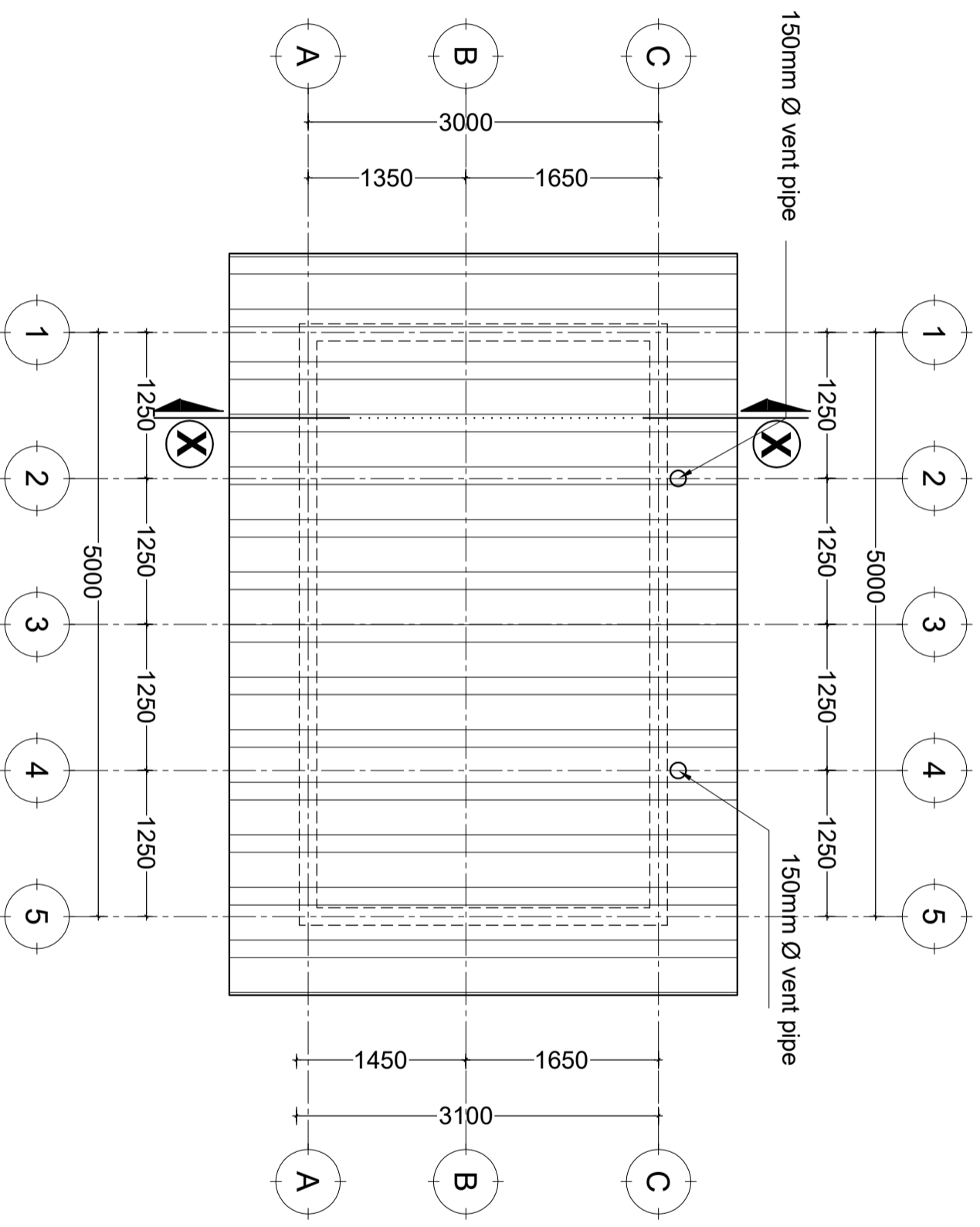
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40478 DODOMA

Approved

No.	Revision	Date

Client
PRESIDENT'S OFFICE, REGIONAL ADMINISTRATION
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Project
PROPOSED STANDARD DESIGN FOR A DISPENSARY

PIT LATRINE - PATIENT
Ground Floor Plan
Project number: 2017 / 05 / 02
Date: 24 APRIL 2018
Drawn by: DCNM
Checked by: DCNM
Scale: 1:50
A I O I



ROOF PLAN

SCALE: 1:50

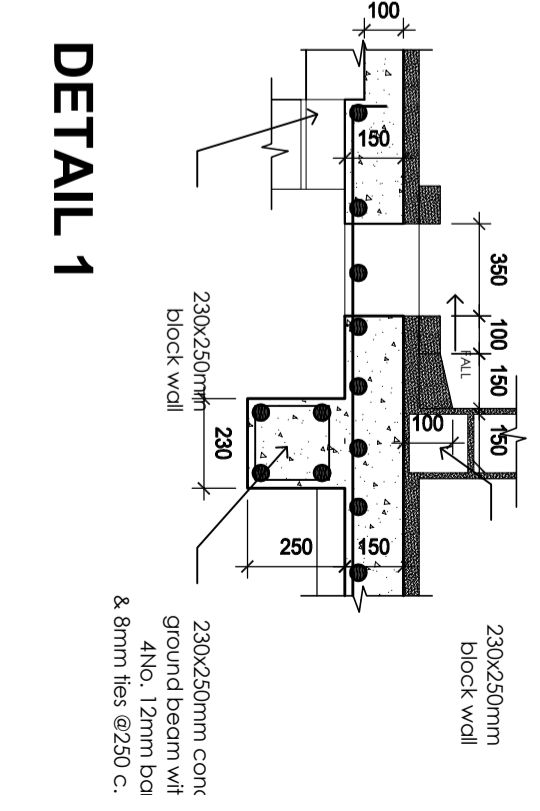
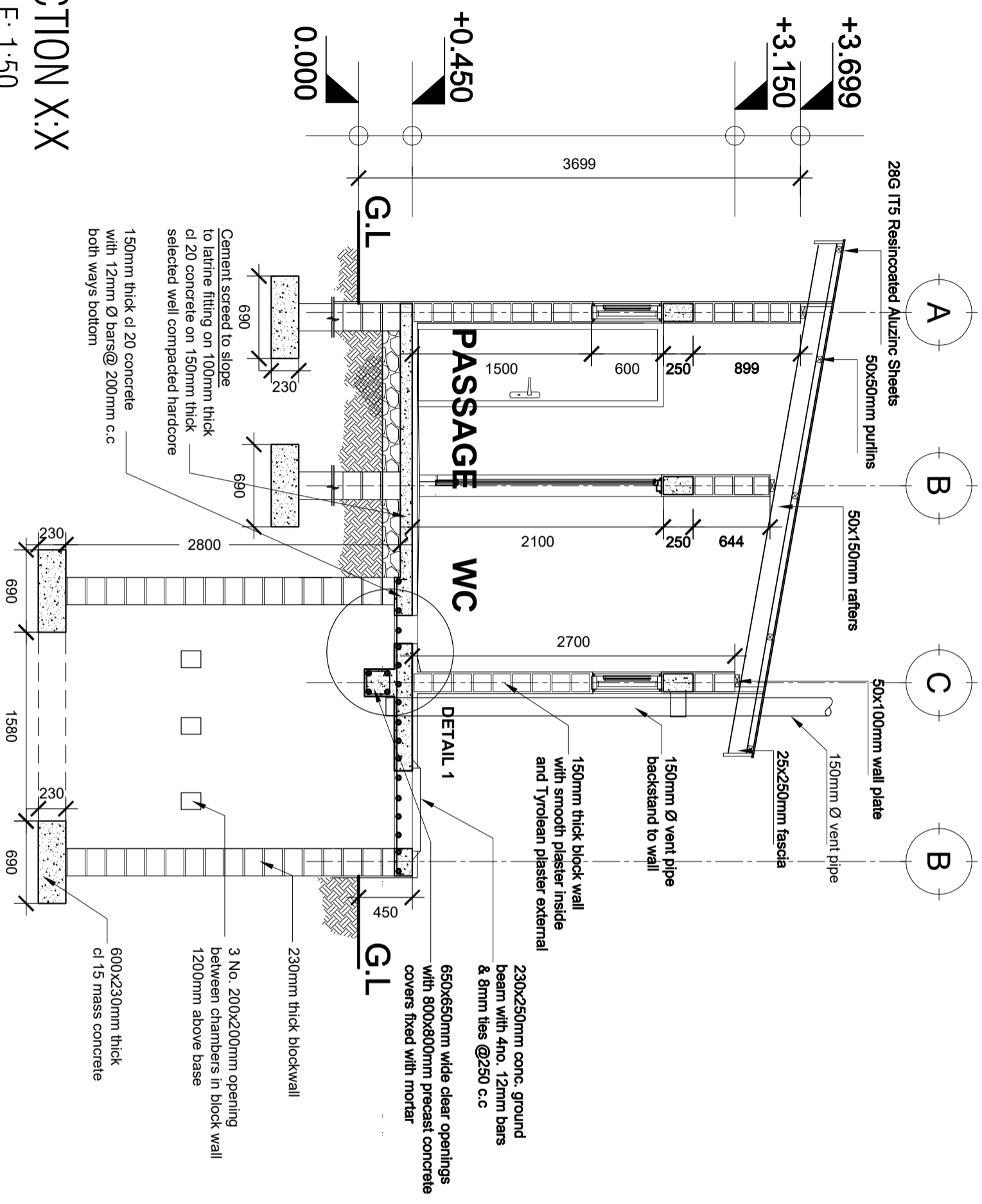
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No.	Revision	Date

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PIT LATRINE - PATIENT		A102
Roof Plan		
Project number	2017 / 05 / 02	Scale 1:50
Date	24 APRIL 2018	
Drawn by	DCNM	
Checked by	DCNM	



SECTION X:X
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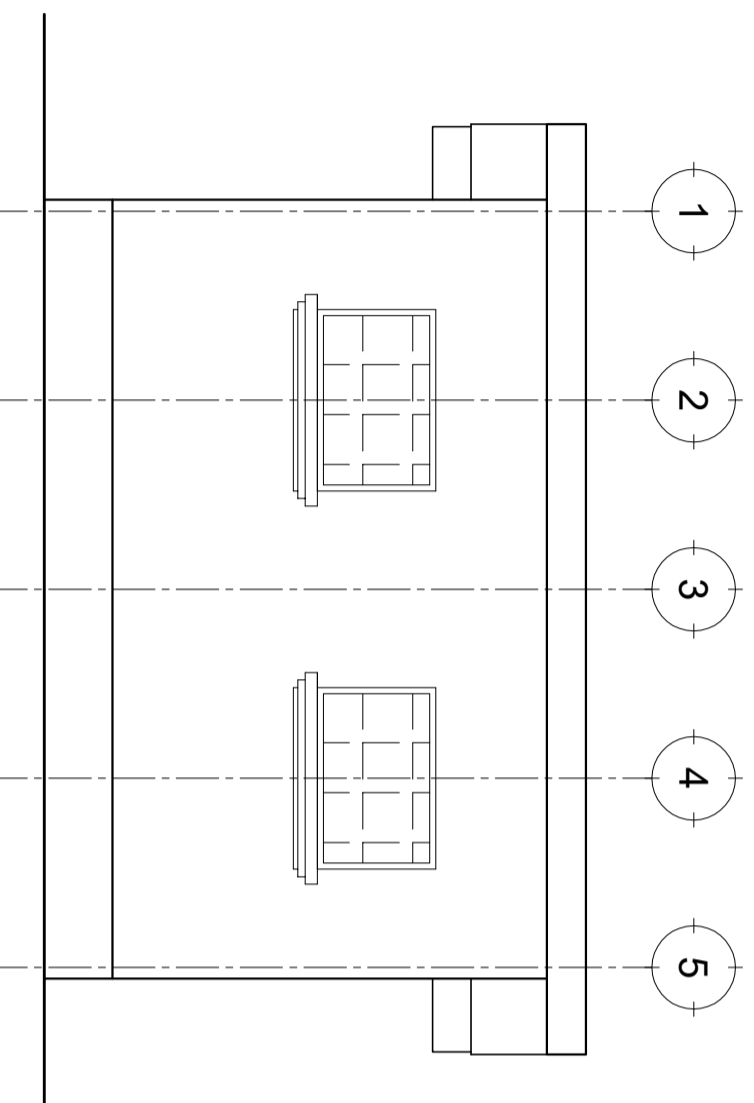
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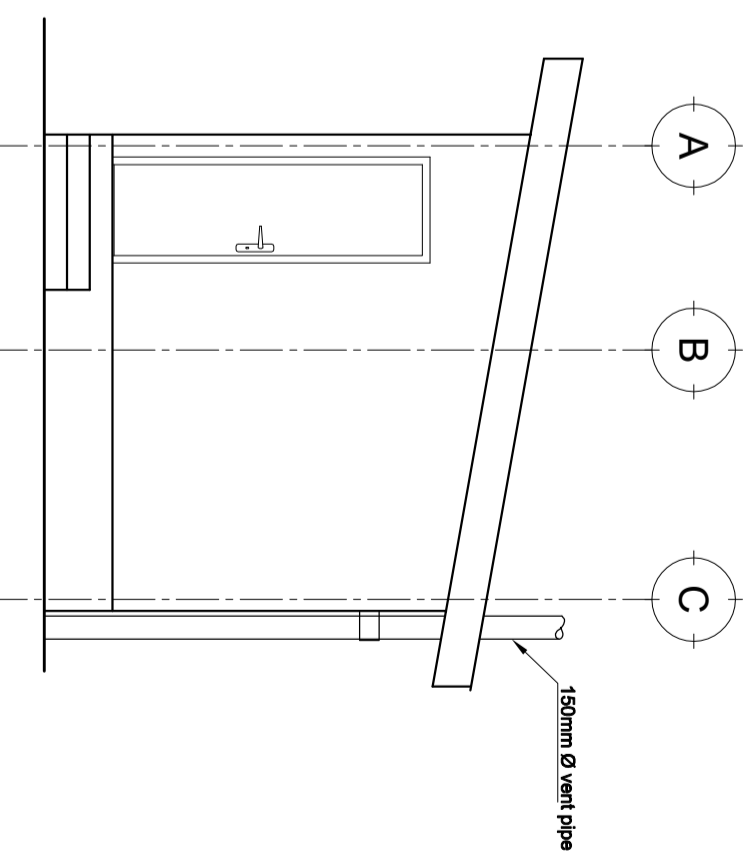
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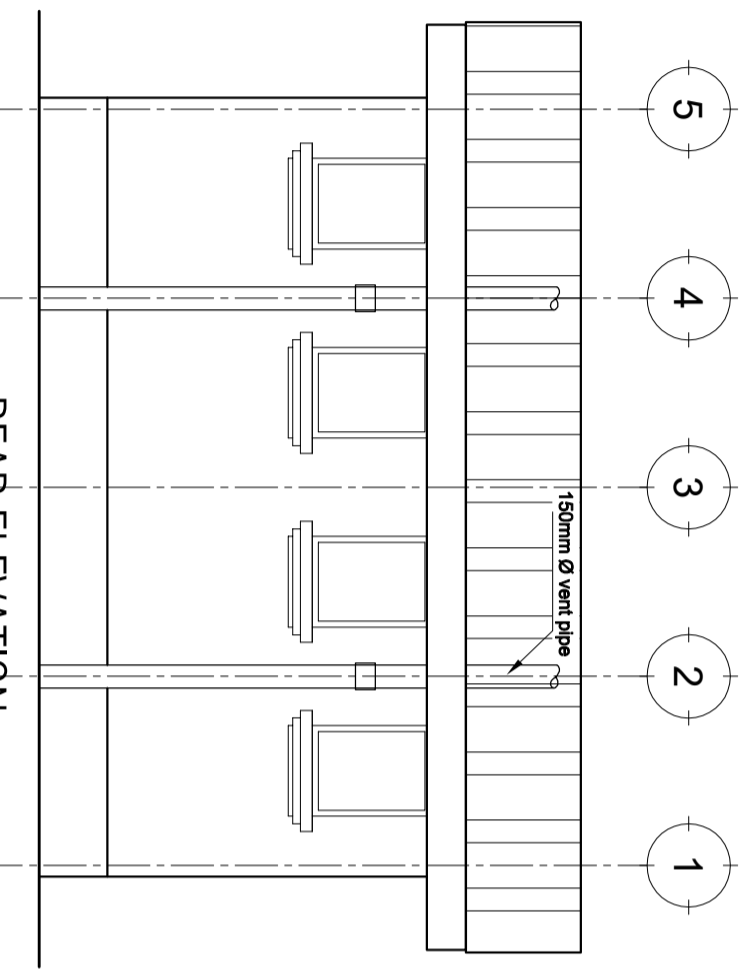
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Project number	2017 / 05 / 02		
Date	24 APRIL 2018	Scale	
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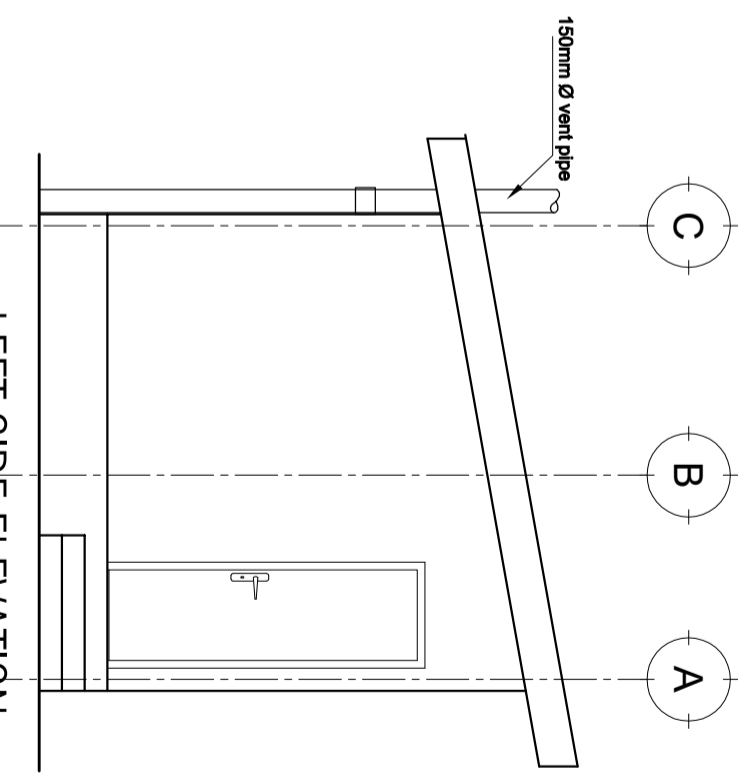
FRONT ELEVATION



RIGHT SIDE ELEVATION



REAR ELEVATION



LEFT SIDE ELEVATION

ELEVATIONS

SCALE: 1:100

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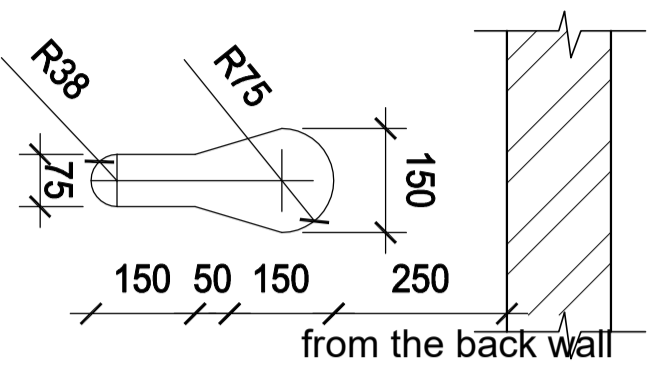
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PIT LATRINE - PATIENT Elevations

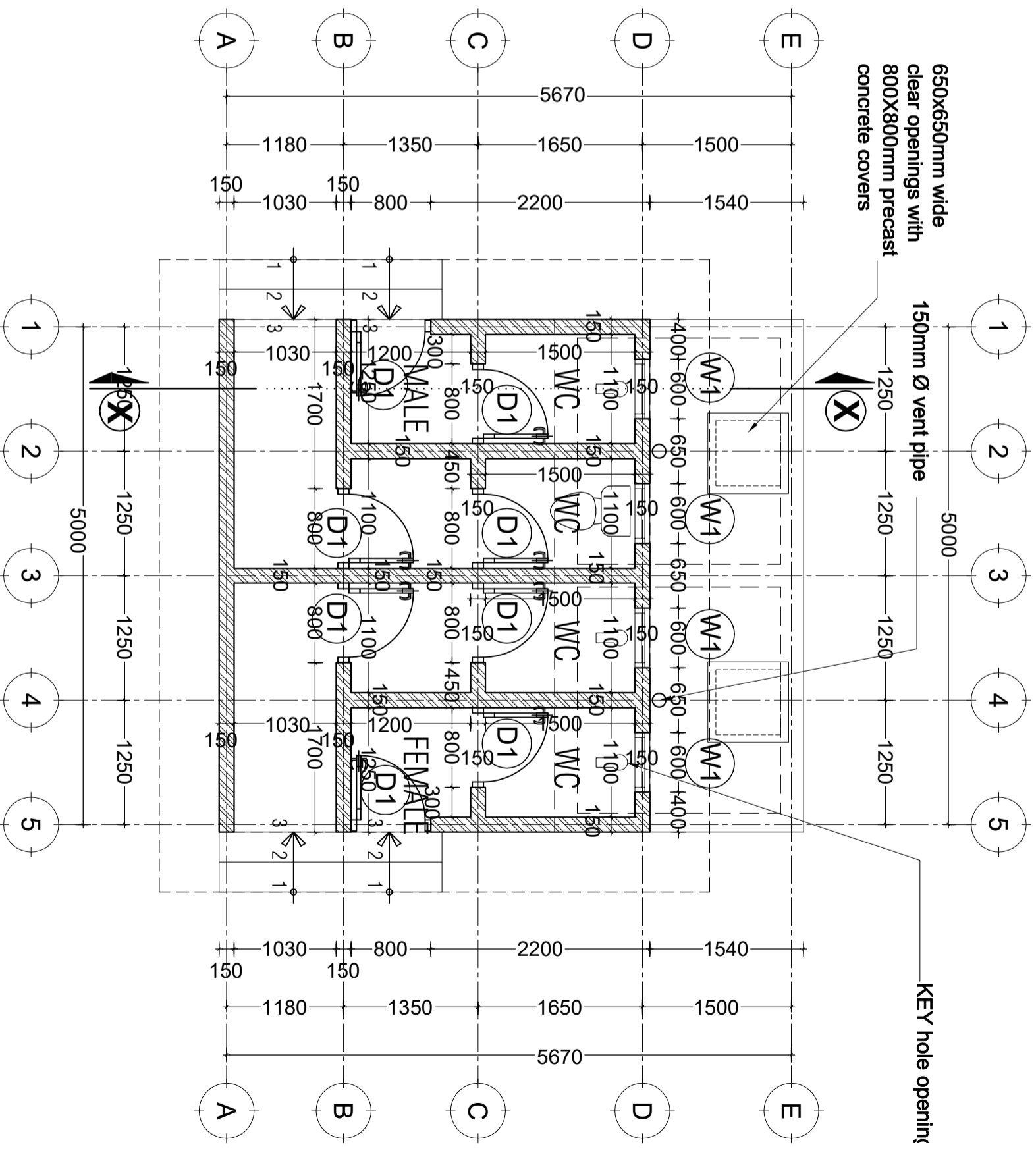
Project number	2017 / 05 / 02	A 04
Date	24 APRIL 2018	
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Checked by	DCNM	



KEY HOLE OPENING DETAIL
SCALE 1:20

DOOR & WINDOW SCHEDULE			
NO.	WIDTH	HEIGHT	TOTAL
D1	800mm	2100mm	8
W1	600mm	600mm	4

GROUND PLAN
SCALE: 1:50
TOTAL AREA = 22sqm



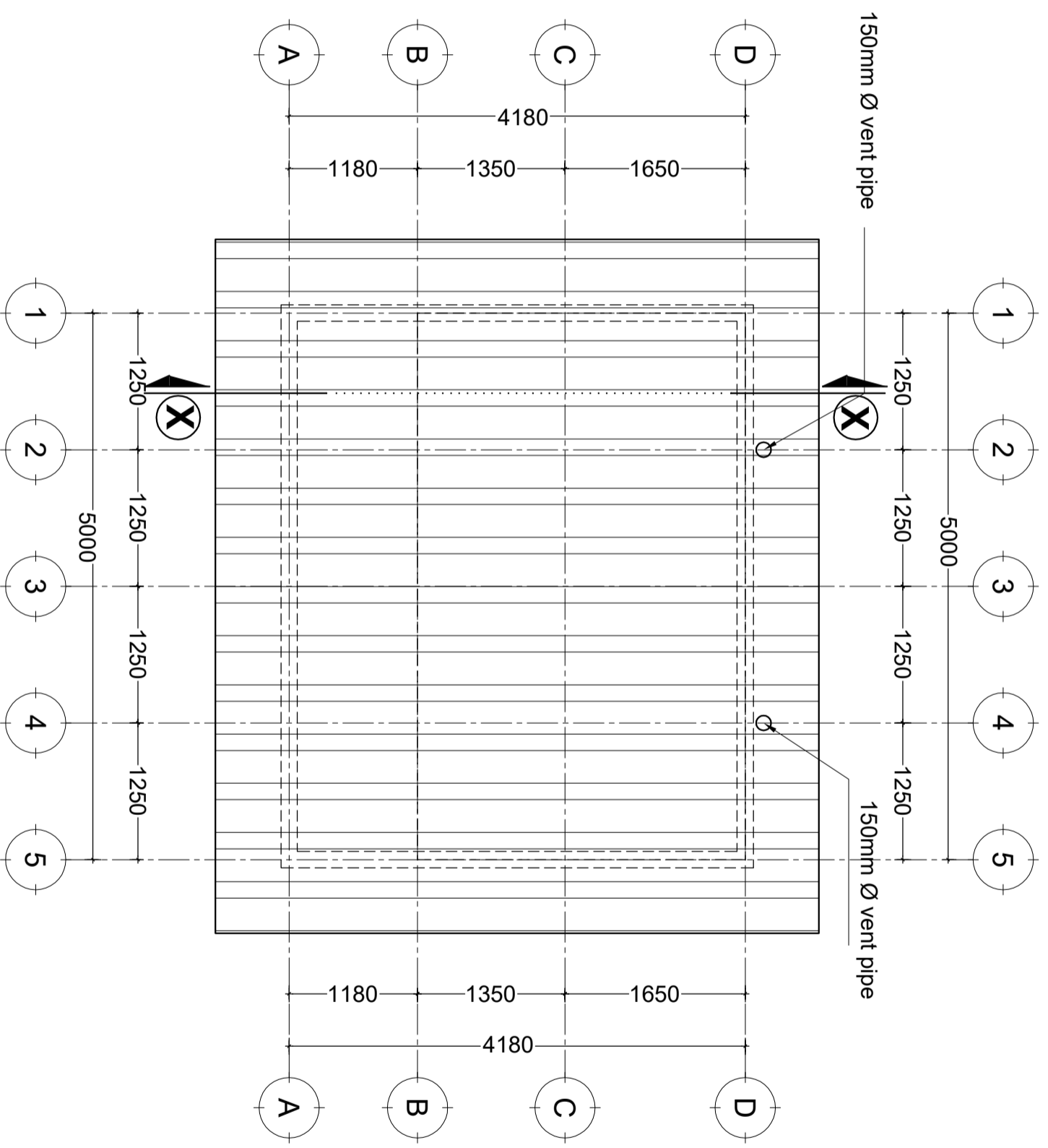
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**PIT LATRINE - STAFF
Ground Floor Plan**
Project number: 2017 / 05 / 02
Date: 24 APRIL 2018
Drawn by: DCNM
Checked by: DCNM
Scale: 1:50
A101



ROOF PLAN

SCALE: 1:50

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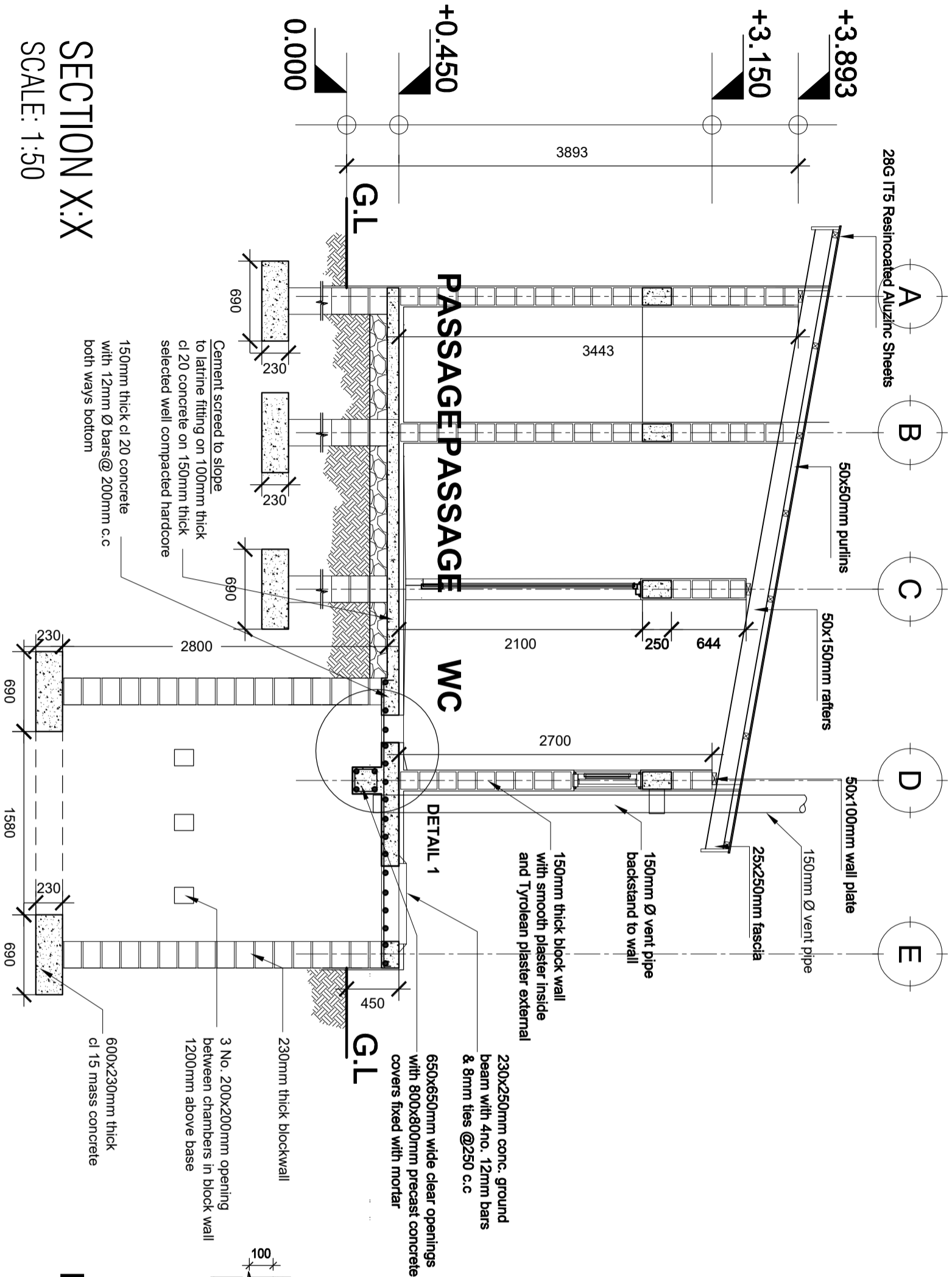
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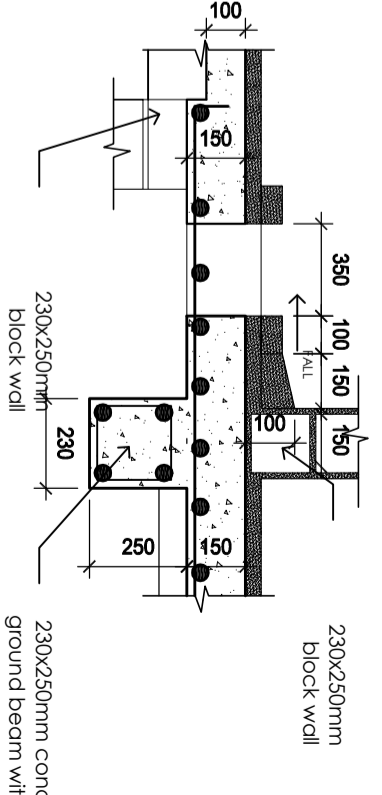
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 PROPOSED STANDARD DESIGN FOR A DISPENSARY

PIT LATRINE - STAFF Roof Plan

Project number	2017 / 05 / 02	A 02
Date	24 APRIL 2018	
Drawn by	DCNM	Scale
Checked by	DCNM	



DETAIL 1



SECTION X:X
SCALE: 1:50

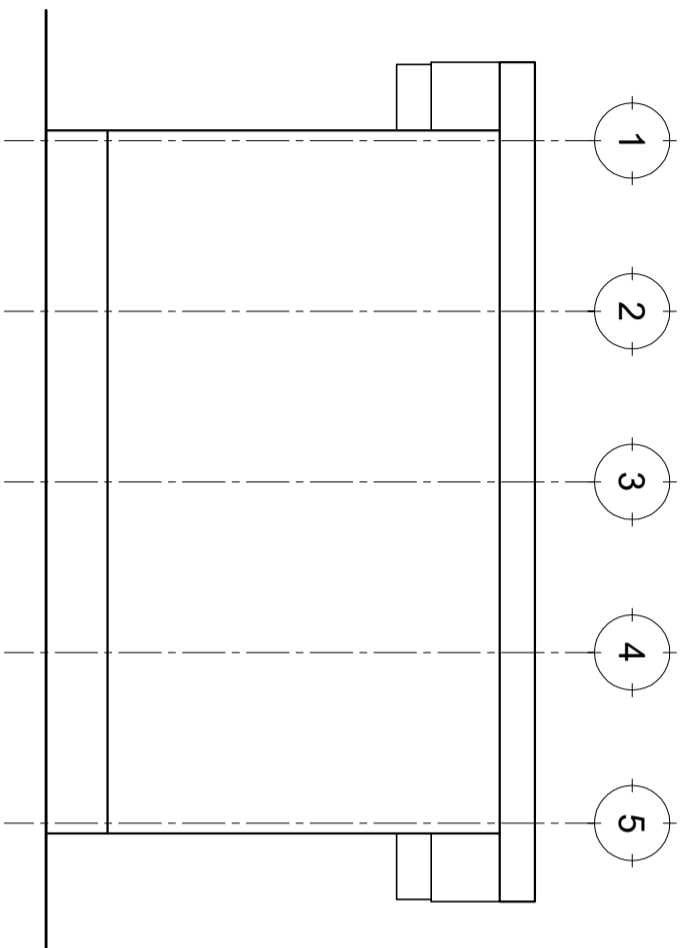
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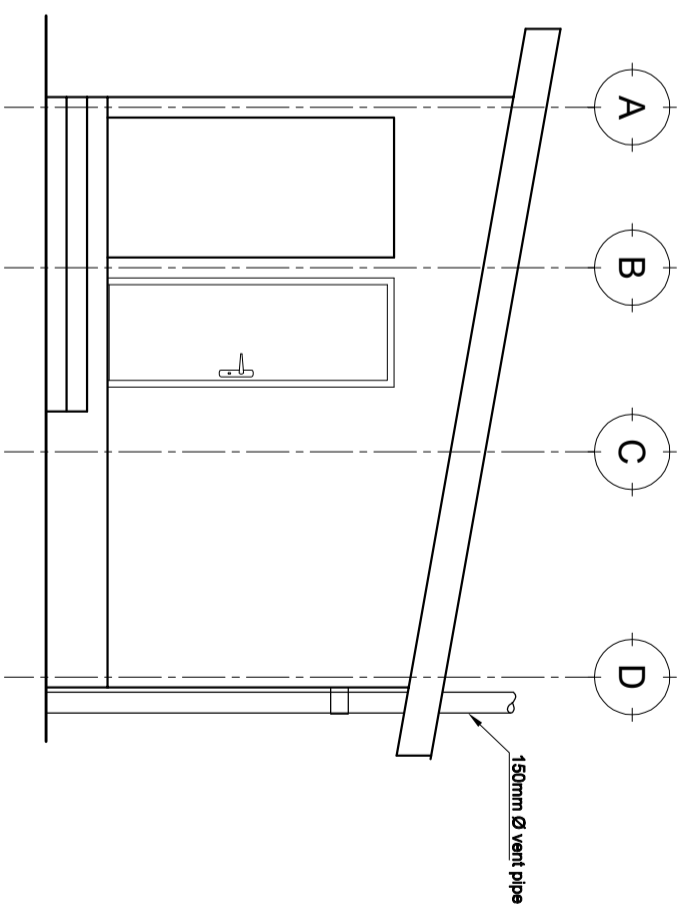
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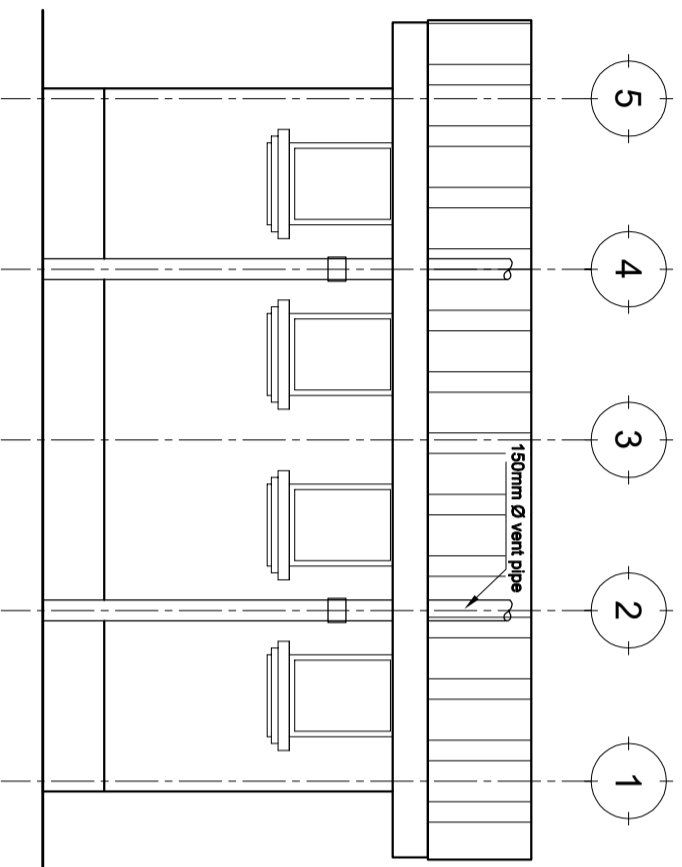
PIT LATRINE - STAFF	
Section X:X	
Project number	2017 / 05 / 02
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	A 03



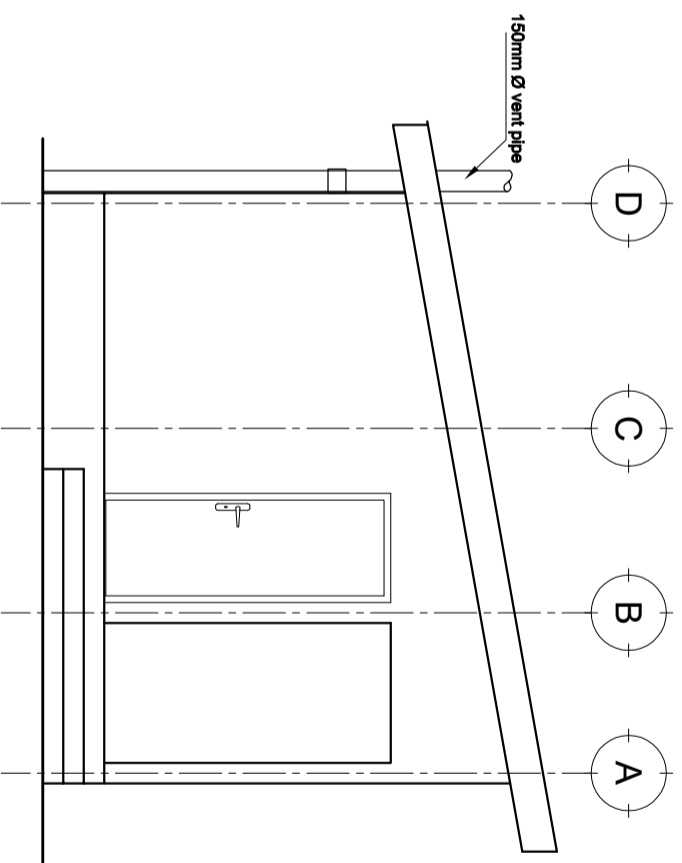
FRONT ELEVATION



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.	Revision	Date

Client
PRESIDENT'S OFFICE, REGIONAL ADMINISTRATION
AND LOCAL GOVERNMENT
Project
PROPOSED STANDARD DESIGN FOR A DISPENSARY

PIT LATRINE - STAFF Elevations	
Project number	2017 / 05 / 02
Date	24 APRIL 2018
Drawn by	DCNM
Checked by	DCNM
Scale	1:100