THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD DRAWINGS FOR SCHOOL FACILITIES.

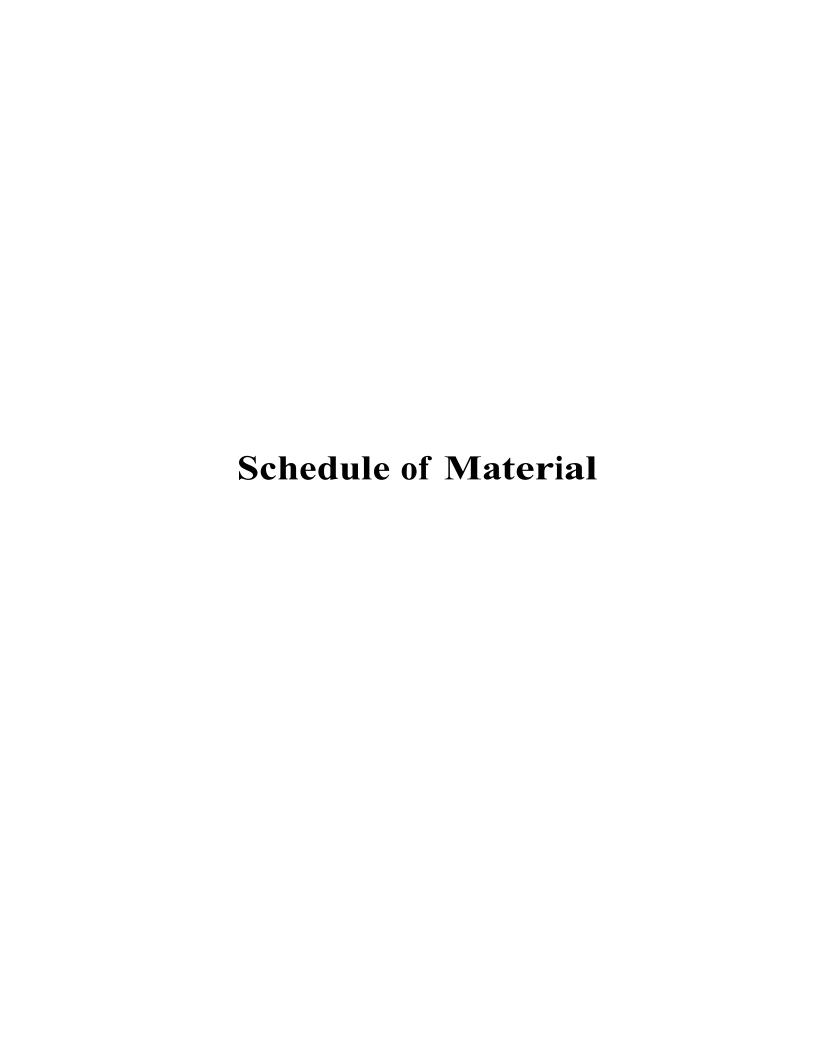
Schedule of Materials, Labour & Drawings for Two Classroom Block – Gable

PROJECT AREA

TANZANIA MAINLAND

Ministry of Education, Science and Technology,

Government City - Mtumba, AFYA -Street, P. O. Box 10, **40479 DODOMA.** President's Office, Regional Administration, & Local Government Government City - Mtumba TAMISEMI Street, P. O. Box 1923, 41185 DODOMA.



	MATERIALS				
Α	SUB-STRUCTURE -PROVISIONAL				
1	Strip Foundation - Grade 15 Plain				
	Aggregate (3/4")		M ³		
	Sand	5	M ³		
	Cement-50kgs -(42.5)	49	Bags		
2	Foundation Walls				
	6" Cement & Sand block - Minimum Strength 3. 5 MPa	1,036			
	Sand	3	M ³		
	Cement -50kgs (42.5)	17	Bags		
3	Moram, Hardcore & Site sterilization				
	Moram (4.5m ³ lorry)	8	Trips		
	Hardcore 200mm thick - (4.5m ³ lorry)		Trips		
	Sand	5	M^3		
	Aldrin solution or other and equal approved (1000mls)	2	Bottle		
4	Oversite Concrete 100mm thick - 15 grade ,Ground Beam and base column - 20 grade				
	DPM	155	M^2		
	Cement -50kgs (42.5)		Bags		
	Aggregates (1/2")		M ³		
	Sand		M ³		
	Reinforcement - 12mm diameter high tensile 460N/mm2		PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm2		PC'S		
	Binding Wire - 25kg		Kgs		
	A252 Mesh 200 x 200x 6.16kg/m2		PC'S		
	Timber 1" X 10 " (5.2m long)		PC'S		
	Timber 2" X 2"		PC'S		
	Nails-4"		Kgs		
	Nails-3"		Kgs		
	Supporting props SUB-TOTAL SUBSTRUCTURE	5	PC'S	_	
B.	SUPERSTRUCTURE				
1	Walls Ring beam & Columns	0.400	No		
	6" Cement & Sand block (Minimum Strength 3. 5 MPa) - 230mm	2,190			
	6" Cement & Sand block (Minimum Strength 3. 5 MPa) - 150mm	198			
	DPC (30m long)		Roll		
	Sand		M ³		
	Cement-50kgs (42.5)		Bags		
	Aggregates (1/2") Reinforcement - 12mm diameter high tensile 460N/mm2		M ³		
	remorement - izmin dameter nign tensile 460N/mmz	∠5	PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm2		PC'S		

Timber 1" X 10" PC'S Timber 1" X 5" (Plates)	ITEM	DESCRIPTION	OTY	UNIT	PRICE-TZS	AMOUNT
Timber 1" X 5" (Plates)	11 -141				TRIOL-120	AMOUNT
Timber 2" X 2" Supporting Props 15 PCS		, 5,				
Supporting Props SUB-TOTAL SUPER STRUCTURE C. ROOF STRUCTURE & COVERING 1 Roof Structure - Provisional Timber 2" X 3" Purlins 50 PC'S Timber 2" X 4" Furlins 50 PC'S Timber 2" X 4" King Post, wall plate and struts 70 PC'S Timber 2" X 6" Rafter and Tie beam 55 PC'S Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long) 14 PC'S Nails -5" 50 Kgs Nails -4" 30 Kgs Nails -3" 20 Kgs Nails -3" 20 Kgs Norte The above softwood timber structure should be pressure impregnated treated 2 Roof Covering 28G IT5 resin coated sheet size 3000x900mm 103 PC'S Hips/Ridge and vailey - 28 G IT resin coated 8 PC'S Roofing Nails 3 Gutter's Upve 100mm half round (6m long)-5" 7 PC'S Upve 75mm diameter down pipe; Class B PC'S Gutter support bracket 2 PC'S Gutter support bracket 3 PC'S Gutter Clamp 3" 28 PC'S Connector/reducer Connector outer Con		, ,				
SUB-TOTAL SUPER STRUCTURE SUB-TOTAL ROOF STRUCTURE & COVERING Sub-Total Roof S						
C. ROOF STRUCTURE & COVERING 1 Roof Structure - Provisional 1 Timber 2" X 3" Purlins 50 PCS 1 Timber 2" X 4" King Post, wall plate and struts 70 PCS 1 Timber 2" X 6" Rafter and Tie beam 55 PCS 5 PCS 5 PCS 5 PCS 5 PCS 5 PCS 5 PCS 7 P		Supporting Frops	10	FC 3		
1		SUB-TOTAL SUPER STRUCTURE				
1		DOOF STRUCTURE & COVERING				
Timber 2" X 3" Purlins						
Timber 2" X 4" King Post, wall plate and struts Timber 2" X 6" Rafter and Tie beam 55 PC'S Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long) 14 PC'S Nails -5" 50 Kgs Nails -4" 30 Kgs Nails -4" 30 Kgs Nails -4" 20 Kgs Noils -5" 20 Kgs Noils -4" 20 Kgs Noils -4" 20 Kgs Noils -5" 20 Kgs Noils -5" 20 Kgs Noils -6" 20 Kgs Noils	I		50	DCIS		
Timber 2" X 6" Rafter and Tie beam Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long) Nails -5" Nails -4" 30 Kgs Nails -4" 30 Kgs Nails -3" 20 Kgs Rolls -3" 20 Kgs Rolls -3" 20 PC'S Rolls -4" 20 PC'S						
Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long)		-				
Nails -5" 50 Kgs Nails -4" 30 Kgs Nails -4" 30 Kgs 70 K						
Nails -4" 30 Kgs 16m diameter bolt 28 Pc's 20 Kgs 28 Pc's 29 P						
Nails -3" 20 Kgs 28 Pc's 16mm diameter bolt 28 Pc's 29						
16mm diameter bolt NOTE: The above softwood timber structure should be pressure impregnated treated 28 Pc's						
NOTE: The above softwood timber structure should be pressure impregnated treated Roof Covering 28G IT5 resin coated sheet size 3000x900mm Hips/Ridge and valley - 28 G IT resin coated 8 PC'S Roofing Nails 23 Packet Upvc 100mm half round (6m long)-5" Upvc 75mm diameter down pipe; Class B PVC outlet 2 PC'S Qutter support bracket PVC bend 90' PVC bend 45' Gutter Clamp 3" Connector/reducer Connector outer Connector outer Connector outer Connector suffer Sum 1 Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS SUB-TOTAL ROOF STRUCTURE & COVERING Gypsum board -9mm thick Pics sum 1 Soler Sorew 1.25" 500pcs/box 3 Box Gypsum powder Treated softwood Timber 2" X 2" 103 PC'S PC'S				_		
28G T5 resin coated sheet size 3000x900mm		NOTE: The above softwood timber structure should be pressure	28	Pc's		
Hips/Ridge and valley - 28 G IT resin coated 8 PC'S	2	Roof Covering				
Roofing Nails Gutter's Upvc 100mm half round (6m long)-5" Upvc 75mm diameter down pipe; Class B PVC outlet Qutter support bracket PVC bend 90' PVC bend 45' Gutter Clamp 3" Connector/reducer Connector outer Connector outer Corner Inner Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS SUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING Gypsum board -9mm thick PC'S Screw 1.25" 500pcs/box Gypsum powder 11 Bags Fiber tape (90m) Treated softwood Timber 2" X 2" PC'S		28G IT5 resin coated sheet size 3000x900mm	103	PC'S		
3 Gutter's Upvc 100mm half round (6m long)-5" 7 PC'S Upvc 75mm diameter down pipe; Class B 2 PC'S PVC outlet 2 PC'S PVC outlet 32 PC'S PVC bend 90' 2 PC'S PVC bend 45' 4 PC'S PVC Clamp 3" 28 PC'S PC'S PVC Connector/reducer 8 PC'S P		Hips/Ridge and valley - 28 G IT resin coated	8	PC'S		
Upvc 100mm half round (6m long)-5"		Roofing Nails	23	Packet		
Upvc 75mm diameter down pipe; Class B PVC outlet Qutter support bracket PVC bend 90' PVC bend 45' Gutter Clamp 3" Connector/reducer Connector outer Corner Inner Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS BUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING Gypsum board -9mm thick Plain Cornice (8ft) Screw 1.25" 500pcs/box Gypsum powder Fiber tape (90m) Treated softwood Timber 2" X 2" PC'S ROVERING	3		7	PC'S		
PVC outlet Gutter support bracket Gutter support bracket PVC bend 90' PVC bend 45' Gutter Clamp 3" Connector/reducer Connector outer Corner Inner Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS BUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING Gypsum board -9mm thick Flain Cornice (8ft) Screw 1.25" 500pcs/box Gypsum powder 11 Bags Fiber tape (90m) Treated softwood Timber 2" X 2" PC'S			2	PC'S		
Gutter support bracket 32 PC'S						
PVC bend 90' 2 PC'S PVC bend 45' 4 PC'S Gutter Clamp 3" 28 PC'S Connector/reducer 8 PC'S Connector outer 2 PC'S Corner Inner 2 PC'S Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS 1 PC'S SUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING 56 PC'S Gypsum board -9mm thick 56 PC'S Plain Cornice (8ft) 40 PC'S Screw 1.25" 500pcs/box 3 Box Gypsum powder 11 Bags Fiber tape (90m) 1 Roller Treated softwood Timber 2" X 2" 102 PC'S						
PVC bend 45' Gutter Clamp 3" Connector/reducer Connector outer Corner Inner Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS BUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING Gypsum board -9mm thick Plain Cornice (8ft) Screw 1.25" 500pcs/box Gypsum powder Fiber tape (90m) Treated softwood Timber 2" X 2" 4 PC'S PC'S PC'S PC'S PC'S PC'S PC'S ROUER APPC'S PC'S ROUER APPC'S ROUER APPC'S PC'S ROUER APPC'S RO						
Gutter Clamp 3"						
Connector/reducer Connector outer Corner Inner Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connections to IPS SUB-TOTAL ROOF STRUCTURE & COVERING CEILING Gypsum board -9mm thick Plain Cornice (8ft) Screw 1.25" 500pcs/box Gypsum powder Fiber tape (90m) Treated softwood Timber 2" X 2" PC'S PC'S PC'S PC'S PC'S PC'S PC'S ROBER ROBER ROBER ROBER PC'S ROBER						
Connector outer Corner Inner Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS SUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING Gypsum board -9mm thick Plain Cornice (8ft) Screw 1.25" 500pcs/box Gypsum powder Fiber tape (90m) Treated softwood Timber 2" X 2" PC'S PC'S PC'S PC'S BOX ROIler Roller Treated softwood Timber 2" X 2"						
Corner Inner Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS SUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING Gypsum board -9mm thick Flain Cornice (8ft) Screw 1.25" 500pcs/box Gypsum powder 11 Bags Fiber tape (90m) Treated softwood Timber 2" X 2" PC'S PO'S PC'S PC'S ROBERT STRUCTURE & COVERING 1 PC'S ROBERT STRUCTURE & COVERING						
Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS SUB-TOTAL ROOF STRUCTURE & COVERING D. CEILING Gypsum board -9mm thick Flain Cornice (8ft) Screw 1.25" 500pcs/box Gypsum powder Fiber tape (90m) Treated softwood Timber 2" X 2" PC'S PC'S ROIE ROIE ROIE ROIE PC'S						
D. CEILING Gypsum board -9mm thick 56 PC'S Plain Cornice (8ft) 40 PC'S Screw 1.25" 500pcs/box 3 Box Gypsum powder 11 Bags Fiber tape (90m) 1 Roller Treated softwood Timber 2" X 2" 102 PC'S		Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all				
Gypsum board -9mm thick 56 PC'S Plain Cornice (8ft) 40 PC'S Screw 1.25" 500pcs/box 3 Box Gypsum powder 11 Bags Fiber tape (90m) 1 Roller Treated softwood Timber 2" X 2" 102 PC'S		SUB-TOTAL ROOF STRUCTURE & COVERING				
Plain Cornice (8ft) 40 PC'S Screw 1.25" 500pcs/box 3 Box Gypsum powder 11 Bags Fiber tape (90m) 1 Roller Treated softwood Timber 2" X 2" 102 PC'S	D.	CEILING				
Plain Cornice (8ft) 40 PC'S Screw 1.25" 500pcs/box 3 Box Gypsum powder 11 Bags Fiber tape (90m) 1 Roller Treated softwood Timber 2" X 2" 102 PC'S		Gypsum board -9mm thick	56	PC'S		
Gypsum powder 11 Bags Fiber tape (90m) 1 Roller Treated softwood Timber 2" X 2" 102 PC'S			40	PC'S		
Gypsum powder 11 Bags Fiber tape (90m) 1 Roller Treated softwood Timber 2" X 2" 102 PC'S						
Fiber tape (90m) Treated softwood Timber 2" X 2" 1 Roller 102 PC'S		·				
Treated softwood Timber 2" X 2" 102 PC'S		·				
		,		+		
INGIIS T		Nails 4"				
Nails 3" 25 Kgs						
SUB-TOTAL FOR CEILING						

ITEM E.	DESCRIPTION DOOR	QTY	UNIT	PRICE-TZS	AMOUNT
1	40mm thick hardwood Matchboarded door shutter				
	820 x 2100mm high	2	PC'S		
2	45 x 145mm Frames (hardwood), Varnish		100		
	900 x 2500 mm high frame	2	PC'S		
	5mm thick clear glass to Vents		m2		
	16mm diametere burglar bars -1100mm long		Pcs		
	Brush 3"		Pcs		
	Sand paper (msasa) No.80		LM		
	Clear Varnish - 4Litres		TIN		
	Thinner for Varnish		Litres		
3	Ironmongeries - ref Union				
	Mortice lock Three lever	2	No		
	Brass hinges - 100mm		Pairs		
F.	SUB-TOTAL FOR DOORS WINDOWS Aluminium sliding Window comprising 100mm x 1.2mm thick standard aluminium profile ex-china/Turkey infill with 5mm thick glass complete with mosquito proofing panel, including all accessories, ironmongeries, cutting and pinning lugs				
	1500 X 1500mm high	10	PC'S		
	SUB-TOTAL FOR WINDOWS	10	100		
G					
G .	FINISHING Floor finishing				
1	Floor finishing Bedding/Backing; cement sand and Chipping (1:2:2); to steel				
	finishing				
	40mm Thick granolithic floor screed steel trowlelling to smooth finishing				
	Sand	9	M^3		
	Cement-50kgs (42.5)	58	Bags		
	Chipping "1/4"	11	M^3		
	2mm thick plastic Strips	205	М		
2	Wall Finishing -15mm thick (1:4)				
	Sand	12	M^3		
	Cement-50kgs	78	Bags		
	Sand paper (msasa) No.120		М		
	White cement - 40kg	5	Bags		
	Gypsum powder	10	Bags		
	SUB-TOTAL FOR FINISHING				
Н.	PAINTING & DECORATION				
	Emulsion Paint - 20 LTRS	9	buckets		
	Weather guard Paint - 20 LTRS	3	buckets		
	Washable paint -20 LTRS	3	buckets		
	Primer paint -20 LTRS	2	buckets		
	Solvent - 5LTRS	2	TIN		
	Brush 3"	4	Pcs		
	Roller	4	Pcs		
	Blackboard paint	4	Litres		
	Gloss paint-4LTR	3	TIN		
	Bitumen paint - 4Litres	4	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				

CHE	DULE OF MATERIALS IWU CLASSRUUM BLUCK			מחצום	S FLUUR AREA =
ГЕМ	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
J.	BALUSTERS & HANDRAIL				
	Supply and fix steel balustrade overall height 900mm high,				
	comprising 50mm diameter hollow section mild steel pipe top and				
	bottom rail, 38mm diameter intermediate rails, 50mm diameter				
	vertical rails 900mm high spaced at interval of 450mm centres				
	to centres including all bolts, plates and associated accessories				
	and welded works, red oxed and painted as per				
	architectural drawing to the aproval of Project Surpervisor.	18	m		
	SUB-TOTAL BALUSTERS & HANDRAIL				
K.	ELECTRICAL INSTALLATION				
1	Single fluorescent fitting Complete,LED philips or other equal approved	18	No		
	Double switch socket ABB or other equal approved	4	No		
	Main switch 6way,1PH with integral RCD 100A/300mmA ABB other equal approved	1	No		
	NB: Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved				
	Single core wire 1.5sqmm - Red	2	Roll		
	Single core wire 1.5sqmm - Black	2	Roll		
	Single core wire 1.5sqmm -green	2	Roll		
	Single core wire 2.5sqmm - red	1	Roll		
	Single core wire 2.5sqmm	1	Roll		
	Single core wire 2.5sqmm green	1	Roll		
	Ceiling fan National or other equal approved	12	PC's		
	3gang 1 way switch ABB or other equal approved		No		
	2gang 1 way switch ABB or other equal approved	2	No		
	Earth rod approved copper 16mm not less than 1200mm	1			
	Earth wire 4sqmm	20			
	Metal box twin		No		
	Metal box single		No		
	Junction box		No		
	Conduit pipe		PC's		
	Elbow		PC's		
	Conduit coupling				
			PC's		
	Round cover		PC's		
	Round box		PC's		
	Fine screw		PACKET		
	plastic clips 22mm		BOX		
	Bulk head light fitting	4	PCS		
	SUB-TOTAL FOR ELECTRICAL INSTALLATIONINSTALLATION				

.==	DESCRIPTION				444011NIT TT
ITEM	DESCRIPTION				AMOUNT -TZ
	SUMMARY				
	- COMMINICAL TO THE PARTY OF TH				
	2No CLASSROOM BLOCK				
A.	SUB-STRUCTURE -PROVISIONAL				
B.	SUPERSTRUCTURE				
C.	ROOF STRUCTURE & COVERING				
О.	ROOF STRUCTURE & COVERING				
D.	CEILING				
E.	DOOR				
F.	WINDOWS				
G.	FINISHING				
О.	1 IIVIOI IIIVO				
Н.	PAINTING & DECORATION				
J.	BALUSTERS & HANDRAILS				
17					
K.	ELECTRICAL INSTALLATION				
	TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMAR	Y			
		· •			
	ADD:				
	LABOUR COST CARRIED TO GENERAL SUMMARY: (Improve and	I Fill the	respective	Labour form)	
	Note:				
	i. Refer attached specification and number of Furniture(s) for tw				
	ii. Refer General Summary for: Preliminary, Transportation and	Superv	ision Cos	ts	
	iii. Preliminary cover the following item:			0	
	- Setting out working tools, Equipments, Temporary toilets, wat				- 1-
	- Power for the works, Security, store, Materials test, levelling,	noiding	s and rer	noval of rubbi	sn. ⊤
	iv. Supervision cost depend on guideline of the specific project				

v. Installation of Ceiling Fan is an option, depend on whether condition of specific area .

THE UNITED REPUBLIC OF TANZANIA

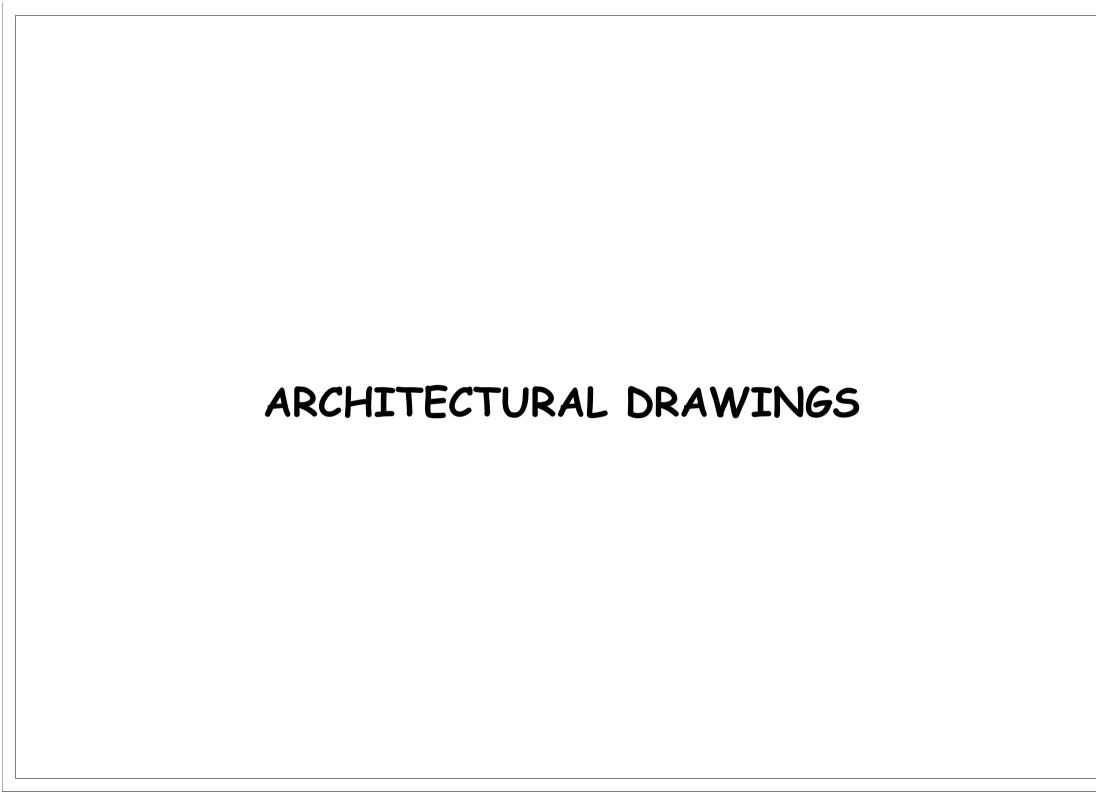
MINISTRY OF EDUCATION SCIENCE AND TECHNOLOGY

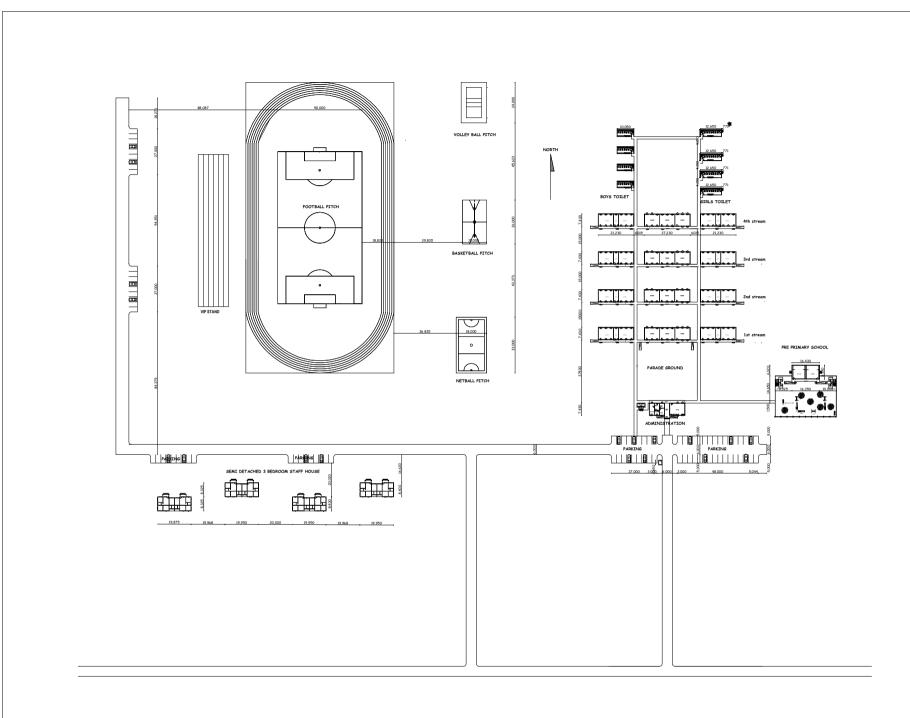
IN COLLABORATIONS WITH

PRESIDENT'S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

Ministry of Education, Science and Technology Government City-Mtumba, Afya Street, P.O. Box 10, 40479 DODOMA President's Office, Regional Administration and Local Government. Government City-Mtumba, TAMISEMI Street, P.O. Box 1923, 41185 DODOMA





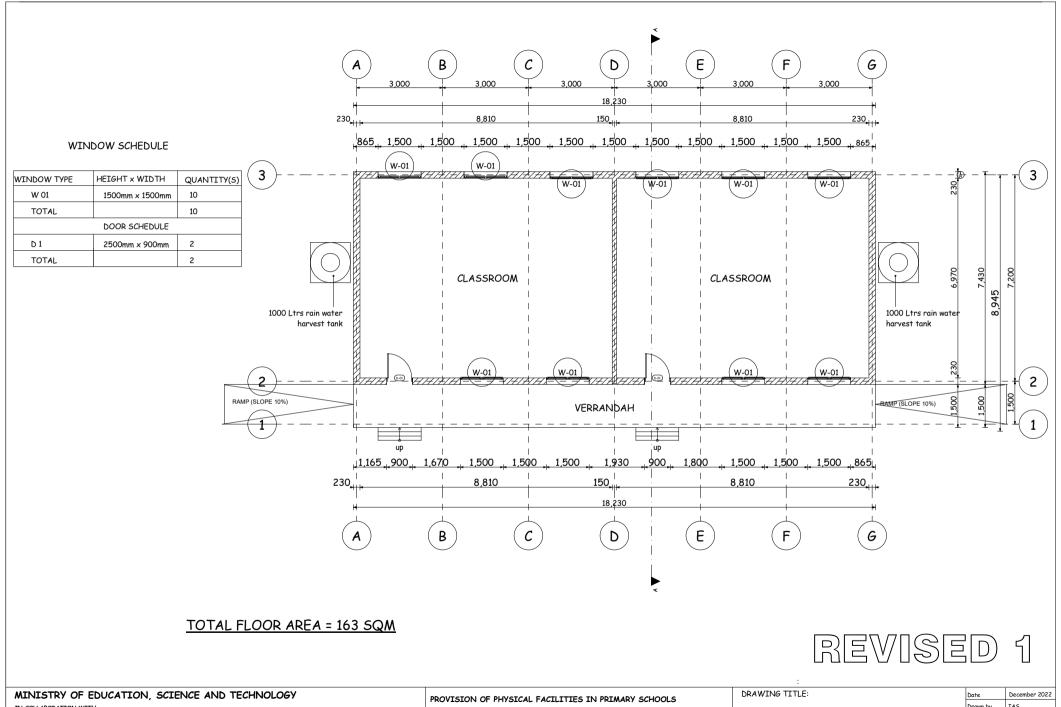
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT

PROVISIO OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

PROPOSED STANDARD DESIGN FOR PRE PRIMARY SCHOOL CLASSROOMS

DRAWING TITLE:	Date	December, 2022
SAMPLE SITE PLAN	Drawn by	IA5
	Checked by	AAL
DRAWING NO: ARC/PPS/01	Scale	To fit





IN COLLABORATION WITH

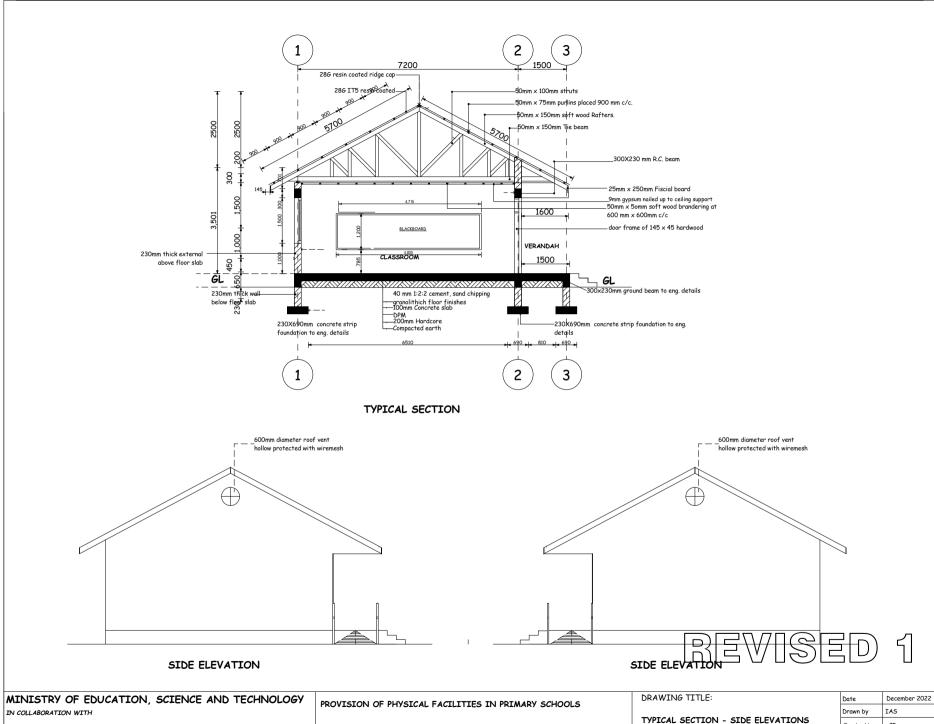
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED 2- CLASSROOMS BLOCK

FLOOR PLAN GABLE

DRAWING NO: ARC/2CRG/01

IAS Drawn by JR Checked by Scale To fit

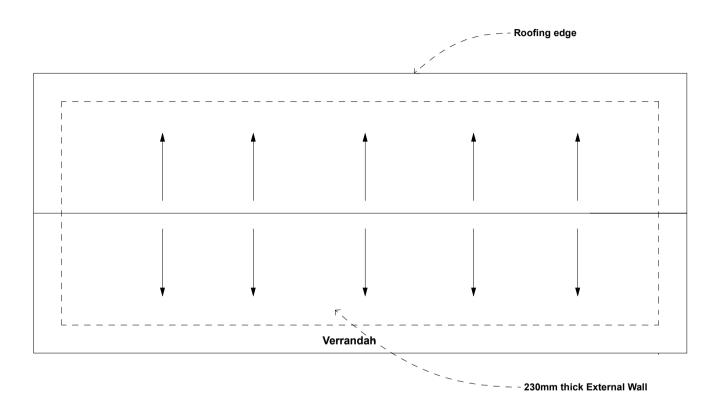


PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED 2 - CLASSROOMS BLOCK

DRAWING NO: ARC/3CRG/03

Date	December 2022
Drawn by	IAS
Checked by	JR
Scale	To fit



REVISED 1

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY IN COLLABORATION WITH

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

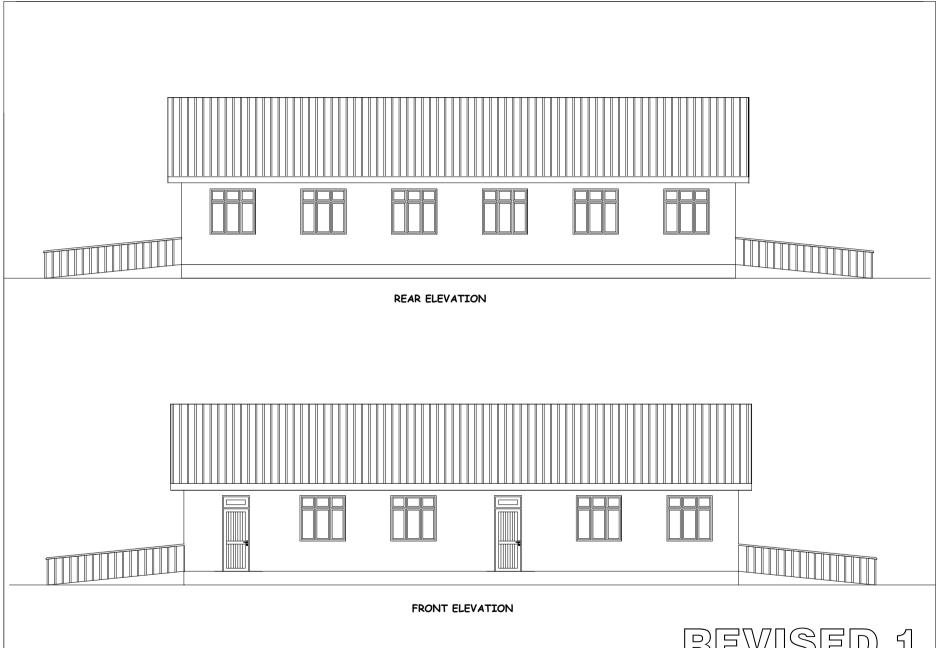
PROPOSED 2- CLASSROOMS BLOCK

DRAWING TITLE:

ROOF PLAN GABLE

DRAWING NO: ARC/2CRG/02

Date December 2022
Drawn by IAS
Checked by JR
Scale To fit



REVISED

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

PROPOSED 2- CLASSROOMS BLOCK

DRAWING TITLE:

ELEVATIONS GABLE

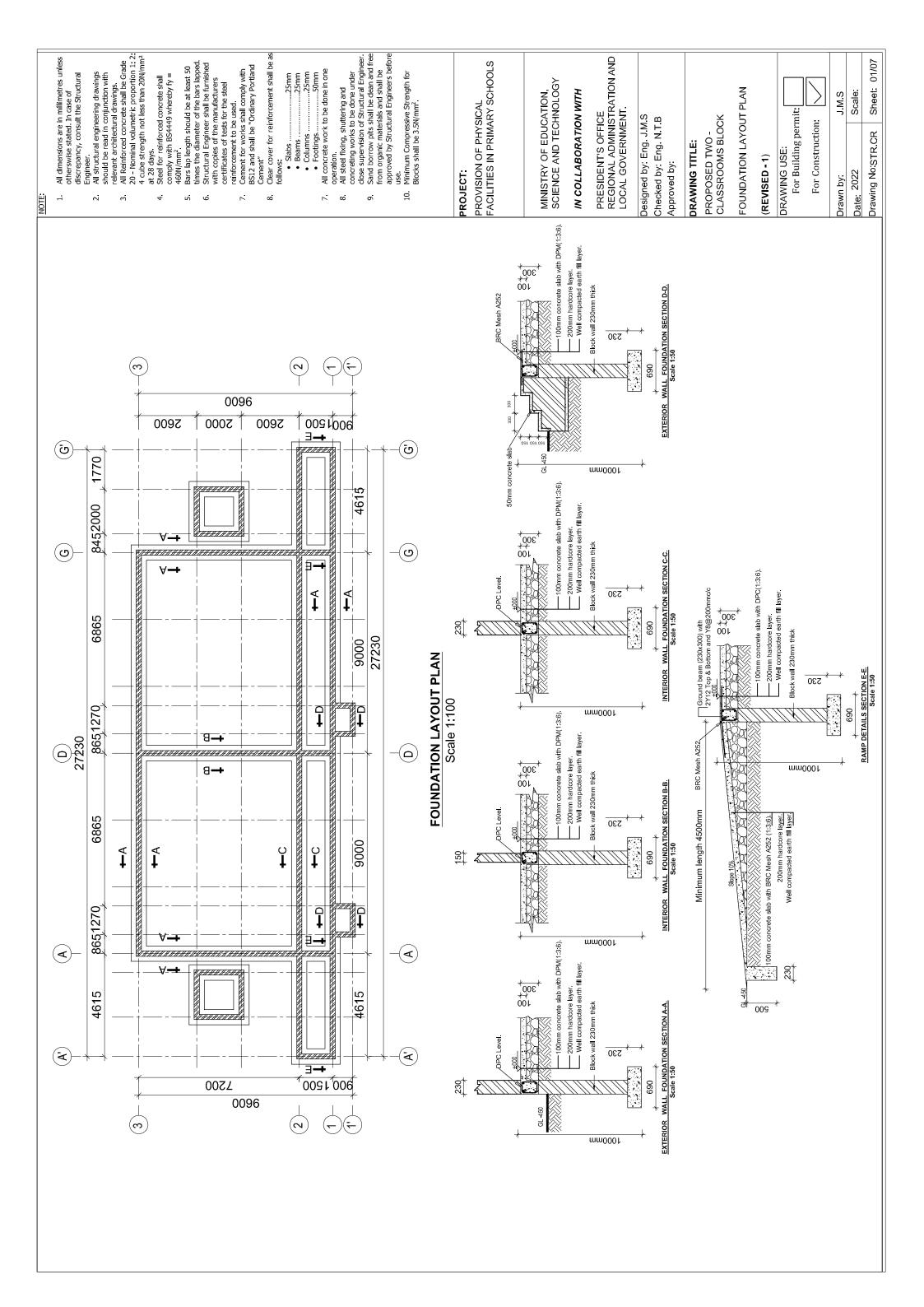
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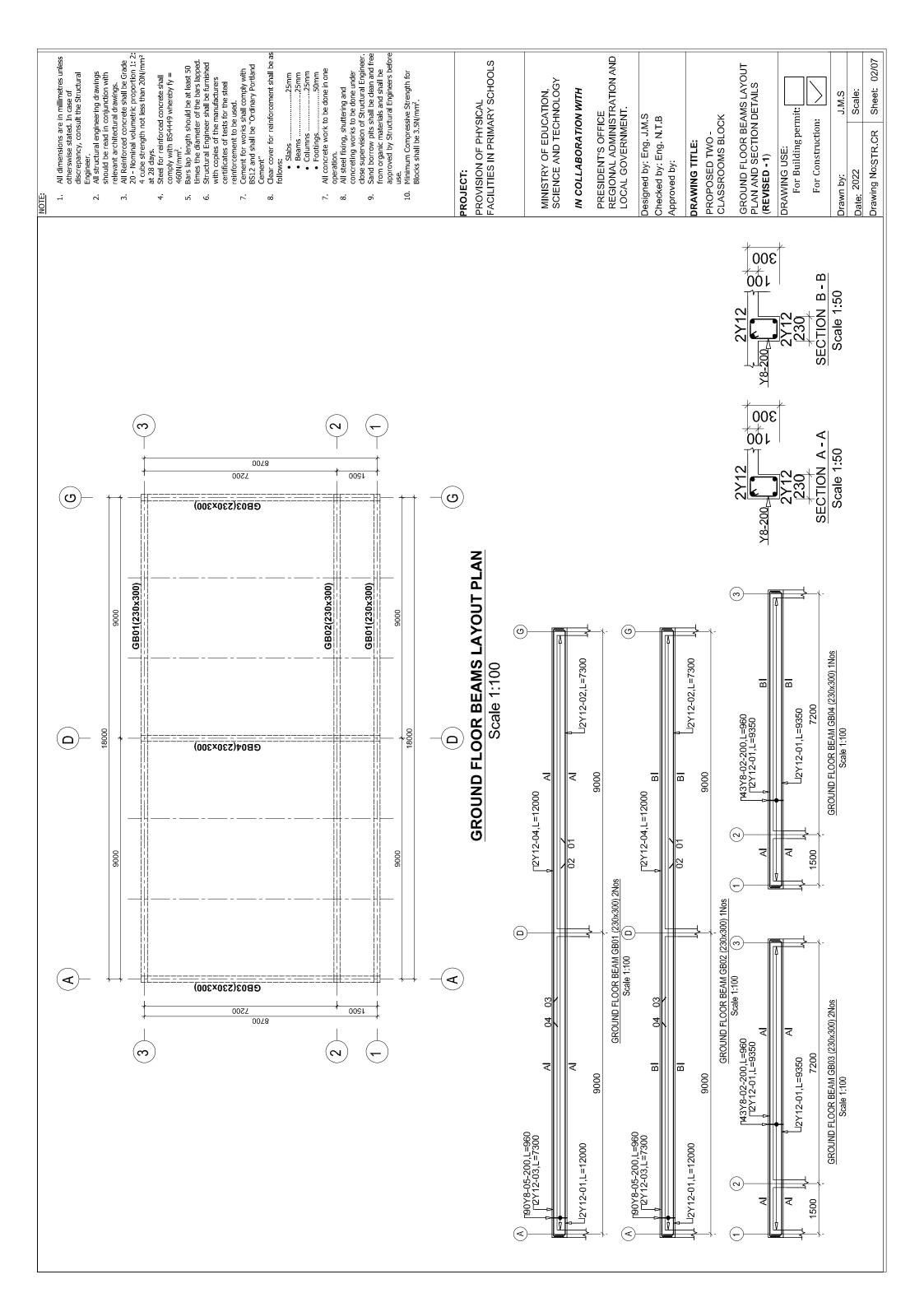
December 2022 IAS Drawn by JR Scale To fit

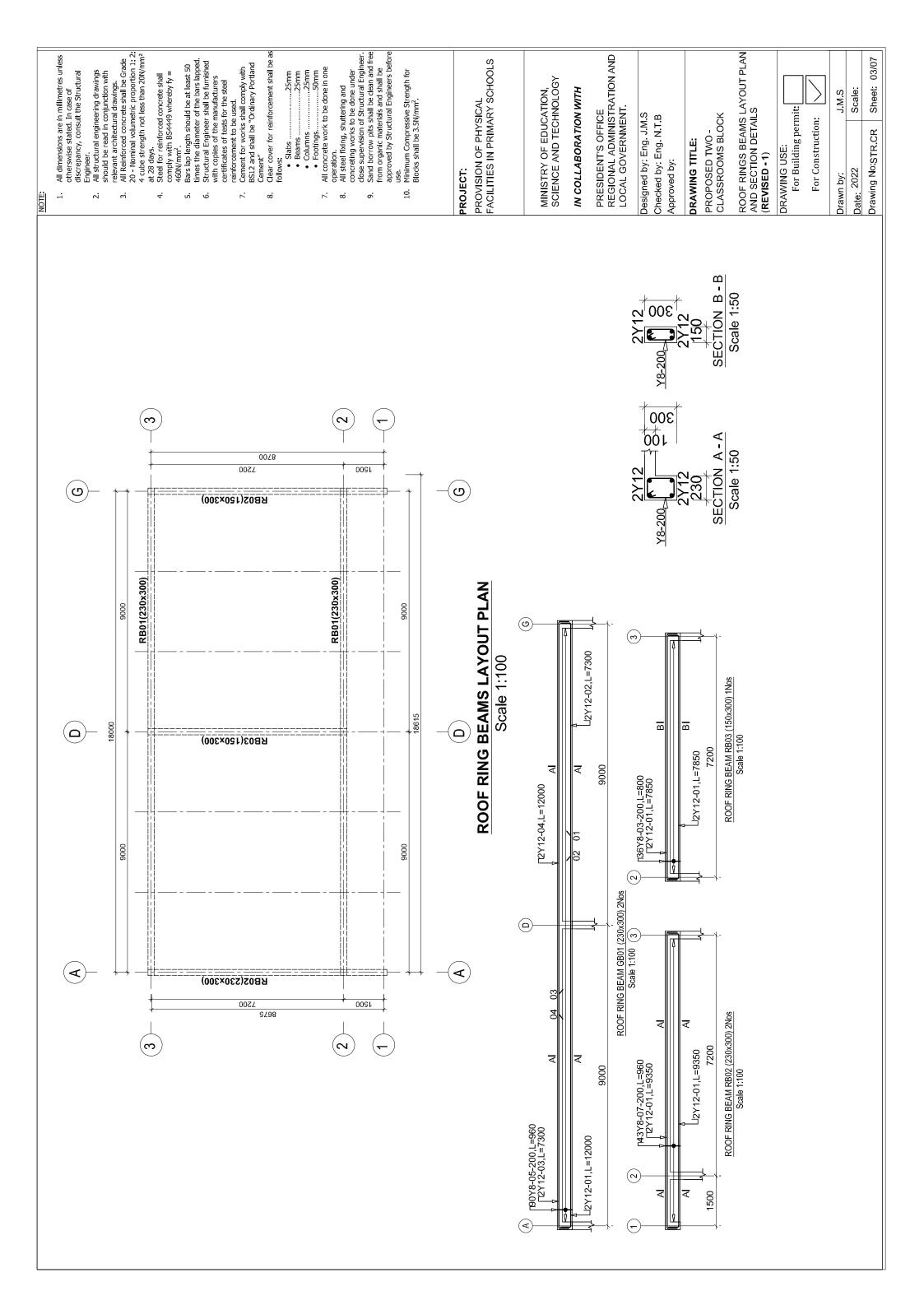
STRUCTURAL DRAWINGS

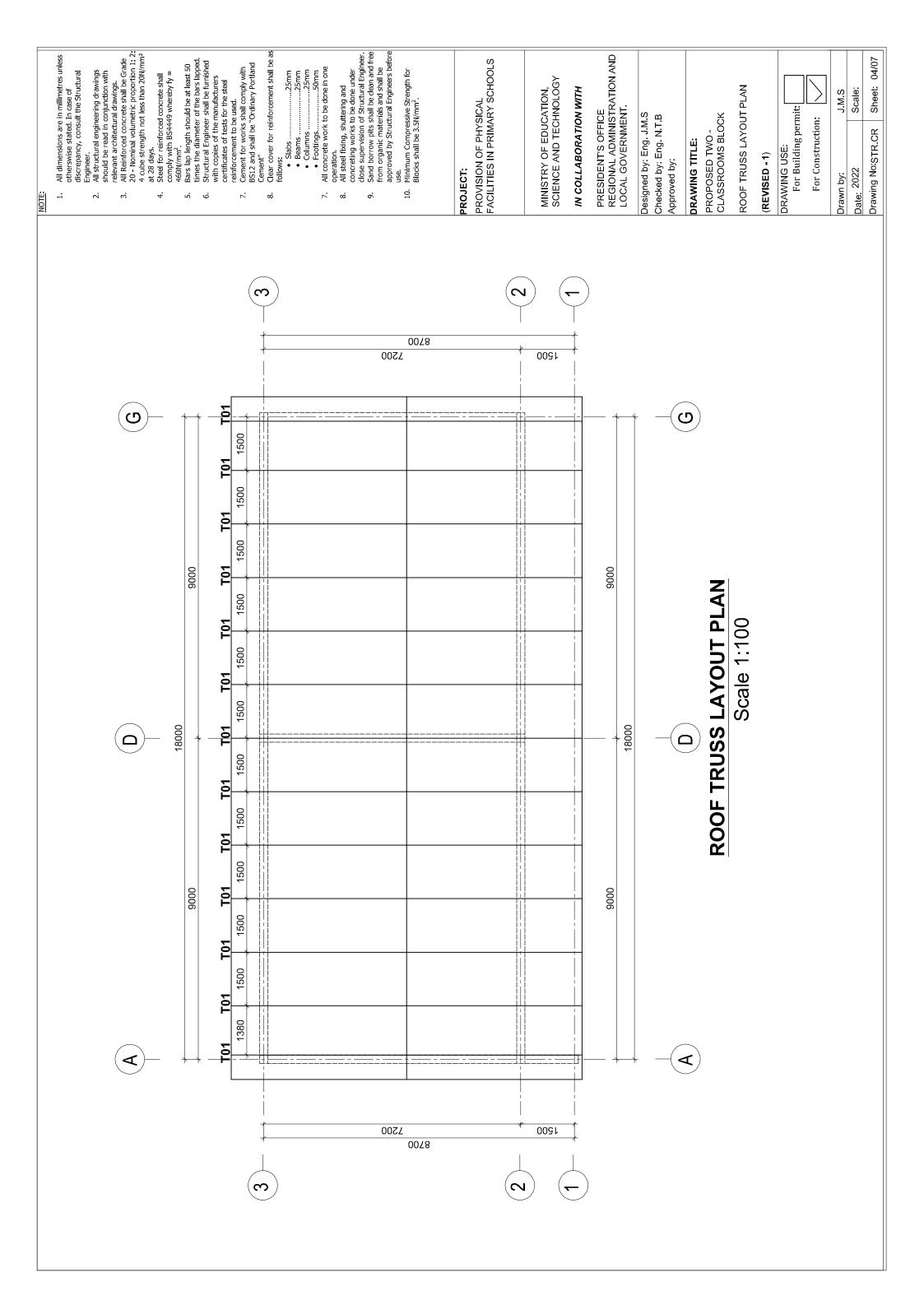
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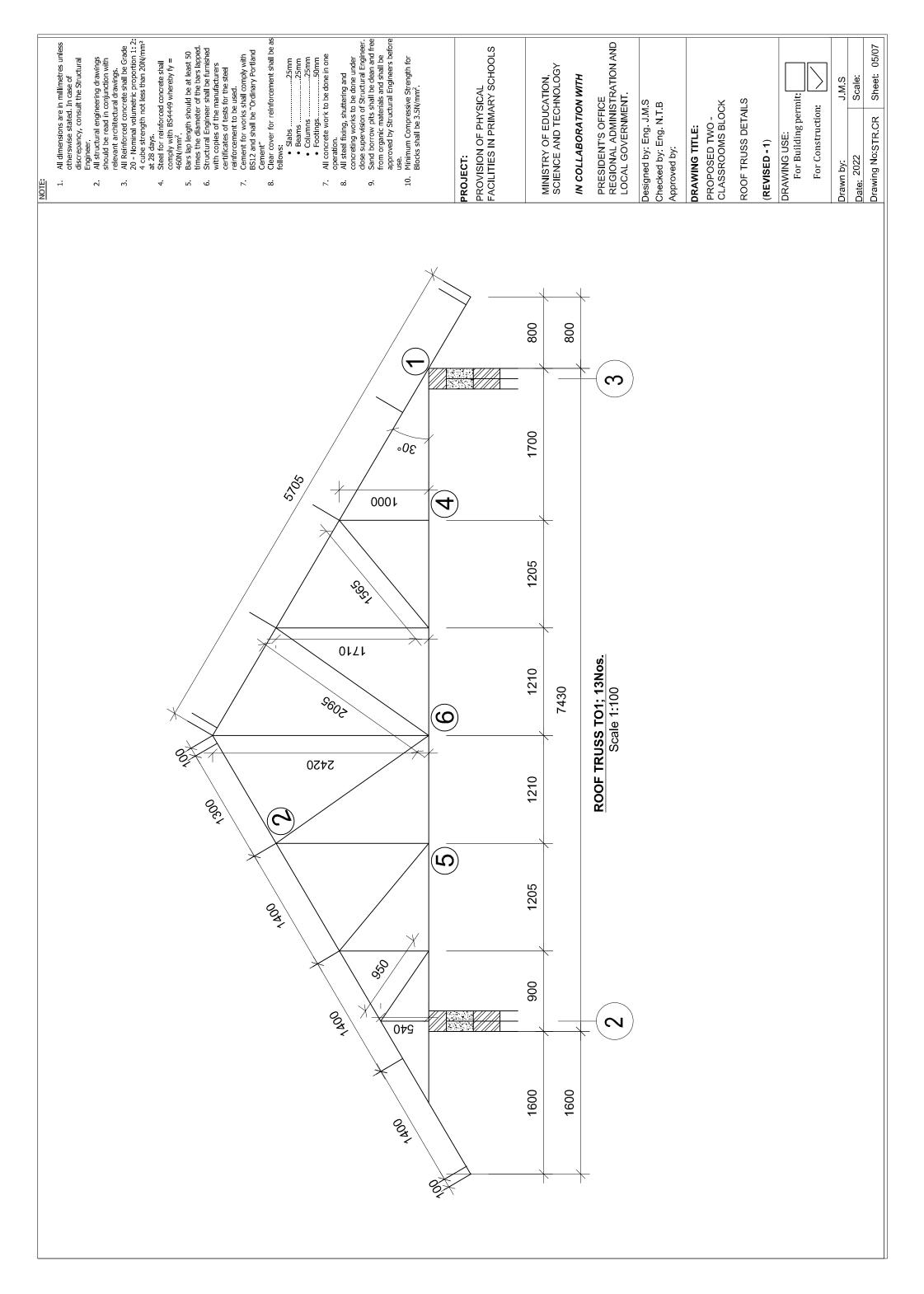
NO CLASSROOM BLOCK TYPE A - 2 ROOMS - GABLE

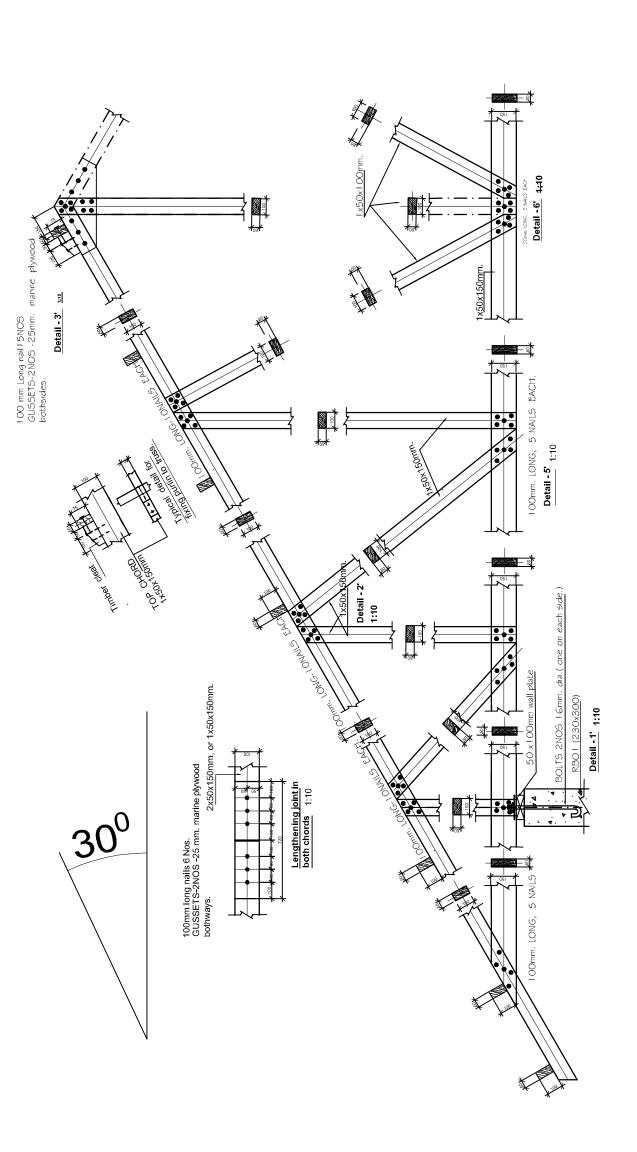




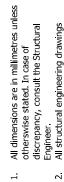








TYPICAL TRUSS CONNECTIONS DETAIL



NOTE

All structural engineering drawings should be read in conjunction with relevant architectural drawings.

All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm² at 28 days.

Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm². m

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Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used. Cement for works shall comply with BS12 and shall be "Ordinary Portland" 9

Cement" Clear cover for reinforcement shall be as

7 8

6

10

PROJECT:

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT.

Designed by: Eng. J.M.S. Checked by: Eng. N.T.B Approved by:

DRAWING TITLE:

PROPOSED TWO -CLASSROOMS BLOCK

ROOF TRUSS CONNECTION DETAILS (REVISED -1)

ORAWING USE: For Building permit:	

For Construction

Drawn by:	JMS
Date: 2022	Scale:
Drawing No:STR.CR	Sheet: 06/07

Page 12					Bar Bending Schedule	3 Schedul	Ø							Bar Bendin
1	Page 1/2		PROVISIO	N OF PHYSICAL FA	CILITIES FOR PRIM	IARY SCHOOLS D FLOOR BEAM	- PROPOSED TWO CLA IS)	SSROOMS BLOCK		Page 2//		PROVISIC	ON OF PHYSICAL F	CILITIES FOR PR
	MEMBER TYPE	NUMBER OF MEMBER	MARK No.	BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)	NO.OF BARS	TOTAL LENGTH (m)	SKETCH OF BAR DIMENSIONS IN (mm)	NOTES	MEMBERTYPI	1		BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)
	GROUND BEAM1	2	10	Y12	12000	4	48	11750		ROOF BEAM			Y12	12000
	GROUND BEAM1	8	05	Y12	7300	4	29.2	7050		ROOF BEAM		05	Y12	7300
	GROUND BEAM1	2	03	Y12	7300	4	29.2			ROOF BEAM		03	Y12	7300
	GROUND BEAM1	2	04	Y12	12000	4	48			ROOF BEAM		04	Y12	12000
Column C	GROUND BEAM1	2	90	\ \ \	096	180	172.8	180 (180)		ROOF BEAM		90	٧8	096
1	GROUND BEAM2	-	10	Y12	12000	8	24	11750		ROOF BEAM		10	Y12	9350
100 CO	GROUND BEAM2	-	02	Y12	7300	8	14.6	7050		ROOF BEAM		05	8 \	096
	GROUND BEAM2		03	Y12	7300	8	14.6			ROOF BEAM		10	Y12	7850
1 05 Ye 86.4	GROUND BEAM2	-	- 60	Y12	12000	2	24	11750		ROOF BEAM		05	٨8	800
2 00 V12 8950 8 74.8 6950 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GROUND BEAM2	-	05	٨8	096	06	86.4	20 20 1 180 180						
1 01 V72 960 86 82.56 180 190 190 190 190 190 190 190 190 190 19	GROUND BEAM 3	2	10	Y12	9350	∞	74.8							
1 01 V12 9550 4 37.4 F128 F128 F128 F128 F128 F128 F128 F128	GROUND BEAM3	8	02	Y8	096	98	82.56	180						
1 005 V8 8060 43 41.28	GROUND BEAM 4	-	01	Y12	9350	4	37.4							
	GROUND BEAM 4	-	05	, Y8	096	43	41,28	180 SO						

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

PROJECT:

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PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT.

Designed by: Eng. J.M.S. Checked by: Eng. N.T.B

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

GROUND FLOOR BEAMS AND ROOF RING BEAMS BAR BENDING SCHEDULES (**REVISED - 1**)

PROPOSED THREE -CLASSROOMS BLOCK

DRAWING TITLE:

Approved by

DRAWING USE: For Building permit:

For Construction:

Sheet: 07/07

Drawing No.STR.CR

Date: 2022

Drawn by:

SMC Scale

9

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All dimensions are in millimetres unless otherswise stated. In case of discrepancy, consult the Structural Engineer.

All structural engineering drawings should be read in conjunction with relevant architectural drawings.

All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm² at 28 days.

Steef for reinforced concrete shall comply with BS449 whereby fy = 460N/mm².

Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.

Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement".

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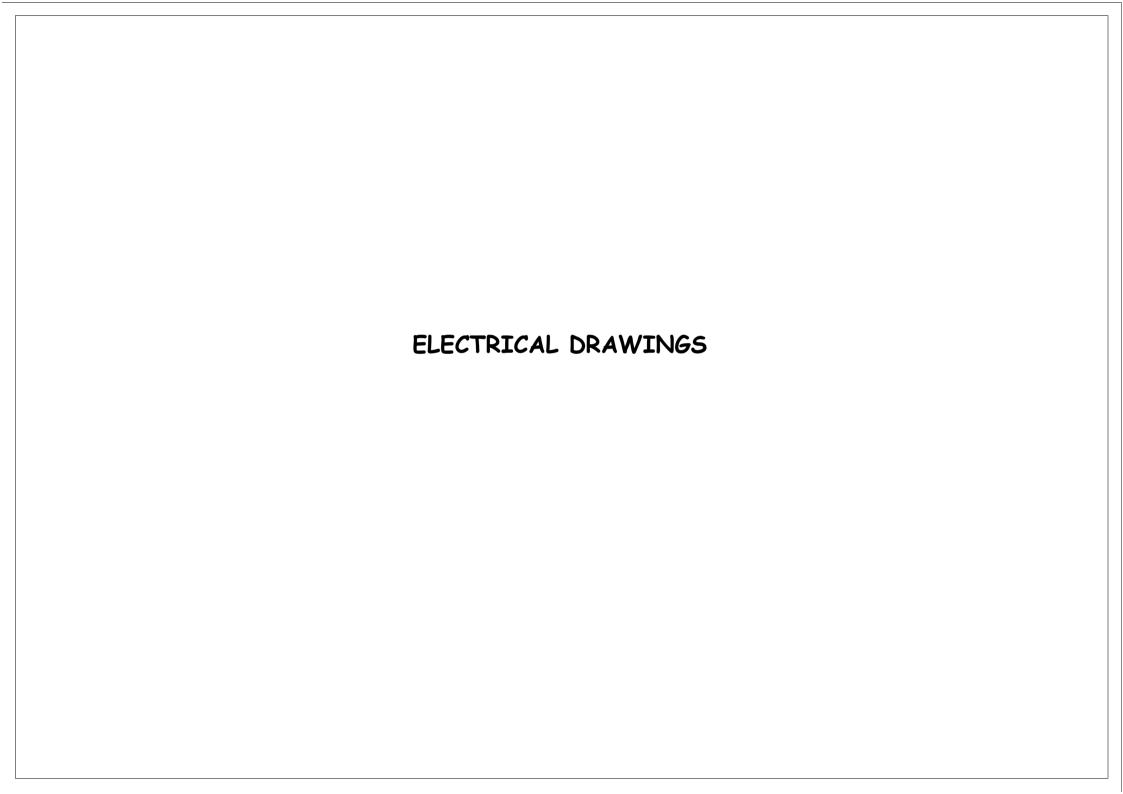
Bar Bending Schedule

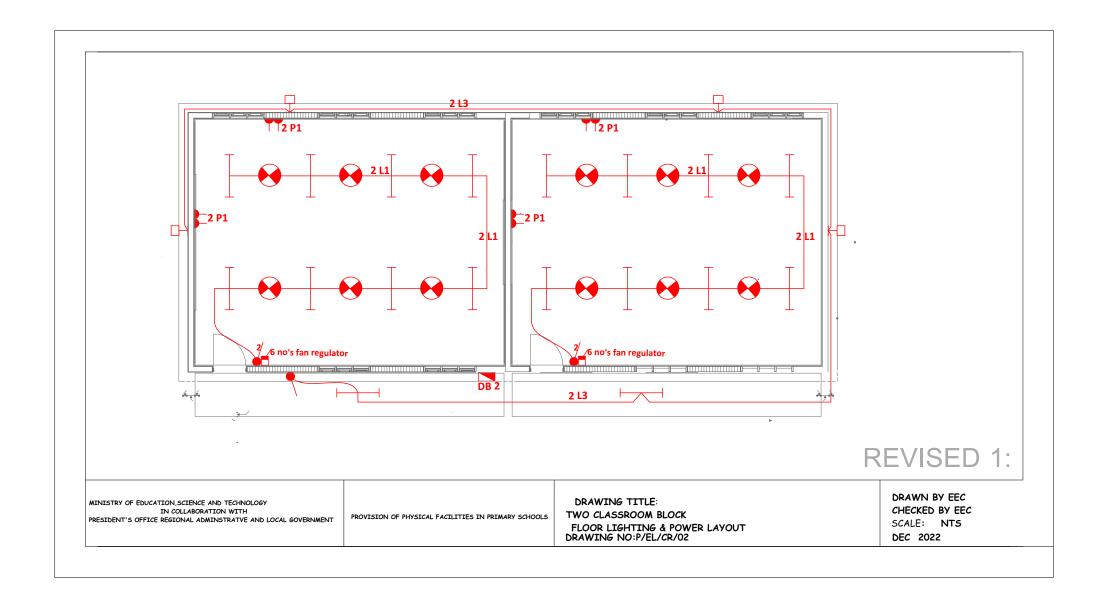
Page 1/2

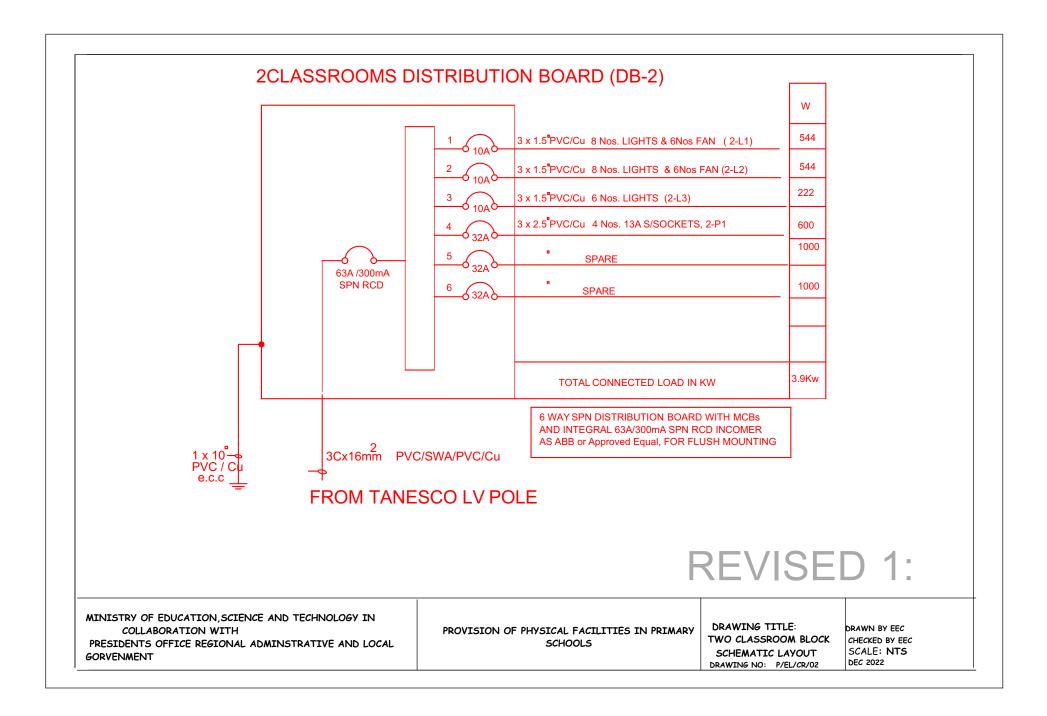
PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PROPOSED TWO CLASSROOMS BLOCK (GROUND FLOOR BEAMS)

				(GROUN	ID FLOOR BEAM	MS)		
MEMBER TYPE	NUMBER OF MEMBER	MARK No.	BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)	NO.OF BARS	TOTAL LENGTH (m)	SKETCH OF BAR DIMENSIONS IN (mm)	NOTES
GROUND BEAM 1	2	01	Y12	12000	4	48	11750	
GROUND BEAM 1	2	02	Y12	7300	4	29.2	7050	
GROUND BEAM 1	2	03	Y12	7300	4	29.2	7050	
GROUND BEAM 1	2	04	Y12	12000	4	48	11750	
GROUND BEAM 1	2	05	Y8	960	180	172.8	50 50 00 00 180	
GROUND BEAM 2	1	01	Y12	12000	2	24	11750	
GROUND BEAM 2	1	02	Y12	7300	2	14.6	7050	
GROUND BEAM 2	1	03	Y12	7300	2	14.6	7050	
GROUND BEAM 2	1	04	Y12	12000	2	24	11750	
GROUND BEAM 2	1	05	Y8	960	90	86.4	50 50 957 180	
GROUND BEAM 3	2	01	Y12	9350	8	74.8	8850	
GROUND BEAM 3	2	02	Y8	960	86	82.56	50 50 957 180	
GROUND BEAM 4	1	01	Y12	9350	4	37.4	8850	
GROUND BEAM 4	1	02	Y8	960	43	41.28	50 50 80 180	

Dog - 0/0				Bar Bendin	g Schedul	e		
Page 2/2		CLASSROOMS BLOCK						
MEMBER TYPE	NUMBER OF MEMBER	MARK No.	BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)	NO.OF BARS	TOTAL LENGTH (m)	SKETCH OF BAR DIMENSIONS IN (mm)	NOTES
ROOF BEAM 1	2	01	Y12	12000	4	48	11750	+
ROOF BEAM 1	2	02	Y12	7300	4	29.2	7050	_
ROOF BEAM 1	2	03	Y12	7300	4	29.2	7050	+
ROOF BEAM 1	2	04	Y12	12000	4	48	11750	
ROOF BEAM 1	2	05	Y8	960	180	172.8	50 50 00 180	
ROOF BEAM 2	2	01	Y12	9350	8	74.8	8850	İ
ROOF BEAM 2	2	02	Y8	960	86	82.56	50 50 927 180	
ROOF BEAM 3	1	01	Y12	7850	4	31.4	7350	
ROOF BEAM 3	1	02	Y8	800	36	28.8	50 50 000 1100	







KEY TO SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	Distribution Board with integral RCD	2000 mm AFFL
Н	Bulkhead light Fitting	Wall Mounted
	4FT Single Electronic Start Fluorecent Light	On Ceilling
8	Ceilling Fan	On Ceilling
	Fan Regulator	1500 mm AFFL
-	1 gang 1way Switch	1500 mm AFFL
4	1 gang 2way Switch	1500 mm AFFL
42	2 gang 2way Switch	1500 mm AFFL
3	3 gang 1way Switch	
2	2 gang 1way Switch	1500 mm AFFL
۵	4 gang 1way Switch	1500 mm AFFL
11	Twin Switch Socket	450 mm AFFL
©	Ceilling light complete with energy saver 11w	on level

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY IN
COLLABORATION WITH
PRESIDENTS OFFICE REGIONAL ADMINSTRATIVE AND LOCAL
GORVENMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE:
THREE CLASSROOM BLOCK
LEGEND
DRAWING NO: P/EL/CR/03

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022