

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 Administration  
Block –Semi Dry area (Rural Type)

---

**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.**

## **Schedule of Material**

ITEM	DESCRIPTION	UNIT	QTY	PRICE-TZS	AMOUNT
<b>A</b>	<b>SUBSTRUCTURE;</b>				
<b>1</b>	<b>Strip foundation Plain insitu Concrete " grade 15"</b>				
	Sand (4.5m3 lorry)	M3	6		
	Aggregate (3/4")	M3	10		
	Cement-50kgs (42.5)	Bag	43		
<b>2</b>	<b><u>Foundation Walls</u></b>				
	Sand	M3	8		
	6" Cement & Sand block - Minimum Strength 3.5 MPa	PCS	832		
	Cement-50kgs (42.5)	Bag	16		
<b>3</b>	<b><u>Moram, Hardcore &amp; Site sterilization</u></b>				
	Moram average depth 150mm	Trip	7		
	Sand blinding	M <sup>3</sup>	3		
	Hardcore 200mm thick (4.5m3 lorry)	Trip	9		
	Adrian 0.5% solution or equal 1000mls	Bottle	2		
	DPM	M2	195		
<b>4</b>	<b><u>Oversite Concrete (100mm thick - 15 grade) &amp; Ground Beam - 20 grade, columns and Ramp</u></b>				
	Aggregate (3/4")	M3	23		
	Sand	M3	15		
	Cement-50kgs (42.5)	Bag	117		
	Reinforcement - 8mm diameter	PCS	41		
	Reinforcement - 12mm diameter high tensile	PCS	38		
	Binding Wire - 25kg	Roll	2		
	A252 Mesh 200 x200x6.16kg/m2	PC'S	4		
	Timber 1" X 10 " (5.2m long)	PC'S	18		
	Timber 2" X 2"	PC'S	8		
	Nails-4"	Kgs	8		
	Nails-3"	Kgs	6		
	Supporting props	PC'S	10		
	<b>SUB-TOTAL SUBSTRUCTURE</b>				

ITEM	DESCRIPTION	UNIT	QTY	PRICE-TZS	AMOUNT
<b>B</b>	<b>SUPERSTRUCTURE</b>				
<b>1</b>	<b><u>Walls &amp; Ring beam &amp; Columns</u></b>				
	6" Cement & Sand block - Minimum Strength 3.5 MPa	No	4,310		
	DPC (25m long)	Roll	2		
	Sand	M <sup>3</sup>	35		
	Cement-50kgs (42.5)	Bags	124		
	Aggregates (1/2")	M <sup>3</sup>	6		
	Reinforcement - 12mm diameter high tensile	PC'S	36		
	Reinforcement - 8mm diameter	PC'S	39		
	Binding Wire - 25kg	Roll	1		
	Timber 1" X 10" to Sides (5.2m long)	PC'S	21		
	Timber 1" X 6" (Plates)	PC'S	5		
	Timber 2" X 2"	PC'S	15		
	Supporting Props	PC'S	20		
	Mixed Nails	Kgs	15		
	Supply and fix alluminium Partition walls complete with Inr. Doors complete with all accessories as per Architectural drawings	M <sup>2</sup>	9		
	<b>SUB-TOTAL SUPER STRUCTURE</b>				
<b>C</b>	<b>ROOF STRUCTURE &amp; COVERING</b>				
<b>1</b>	<b><u>Roof Structure - Provisional (3.6m long)</u></b>				
	Timber 2" X 6" King Post, Rafter, Tie beam	PCS	95		
	Timber 2" X 4" , wall plate and struts	PCS	75		
	50 x 75mm purlins	PCS	105		
	25 x 250mm Fascia board	PCS	21		
	Mixed Nails	Kgs	41		
<b>2</b>	<b><u>Roof Covering</u></b>				
	28G IT5 resincoated sheet (3000mm x 900mm)	PCS	155		
	Hips/Ridge and valley - 28 G IT resin coated (3m long)	PCS	2		
	Roofing Nails	Pcket	25		
<b>3</b>	<b><u>Gutter's</u></b>				
	Upvc 125mm half round (6m long)-5"	PC'S	9		
	Upvc 75mm diameter down pipe; Class B	PC'S	4		
	PVC outlet	PC'S	4		
	PVC bend 90'	PC'S	4		
	PVC bend 45'	PC'S	8		
	Gutter support bracket	PC'S	45		
	Pipe Clamp 3"	PC'S	12		
	Connector/reducer	PC'S	8		
	Corner outlet	PC'S	2		
	Screw and fisher	BOX	5		
	<b>SUB-TOTAL ROOF STRUCTURE &amp; COVERING</b>				

ITEM	DESCRIPTION	UNIT	QTY	PRICE-TZS	AMOUNT
<b>D</b>	<b>DOORS</b>				
<b>1</b>	<b>40mm thick hardwood paneled door shutter</b>				
	820 x 2100mm high	No.	6		
<b>2</b>	<b>45X145mm Frames (hardwood), Varnish, Glass &amp; Burglar bar</b>				
	900 x 2500mm high	PCS	6		
	4mm thick clear glass to Vents	M <sup>2</sup>	2		
	12 mm burglar bars	PC'S	1		
	Brush 3"	Pcs	2		
	Sand paper (msasa) No.80	LM	3		
	Clear Varnish - 4Litres	TIN	3		
	Thinner for Varnish -4Litres	Litres	1		
<b>3</b>	<b><u>Ironmongeries</u></b>				
	Mortice lock Three lever - ref: union	No	5		
	Brass hinges - 100mm	Pairs	8		
	<b>SUB-TOTAL DOORS</b>				
<b>E</b>	<b>WINDOWS</b>				
<b>1</b>	<b>Aluminium Windows 2mm thick frame with 5mm thick glass, Mosquito gauze, ironmongeries and all necessary accessories</b>				
	1500 x 1500mm high	No.	10		
	1200 x 1500mm high	No.	1		
<b>2</b>	<b>Window grill with 38mm x 4mm flat bars, 25mm x 25mm square pipes painted with red oxide</b>				
	1500 x 1500mm high	No.	10		
	<b>SUB-TOTAL WINDOWS</b>				
<b>F</b>	<b>FINISHING</b>				
<b>1</b>	<b><u>Floor finishing</u></b>				
	Sand	M <sup>3</sup>	13		
	Cement-50kgs (42.5)	Bags	76		
	500 x 500 X 9mm Non slippery Porcelain floor tiles	Box	122		
	Skirting (600 mm long; 25No/Box)	Box	14		
	Grout	Packet	18		
	Spacer	Packet	7		
<b>2</b>	<b><u>Wall Finishing</u></b>				
	Sand	M <sup>3</sup>	8		
	Cement-50kgs	Bags	32		
	White cement - 50kg	Bags	4		
	Gypsum powder	Bags	32		
	Sand paper (msasa) No.120	Roll	1		

ITEM	DESCRIPTION	UNIT	QTY	PRICE-TZS	AMOUNT
<b>3</b>	<b><u>CEILING</u></b>				
	Gypsum board -9mm thick	PC'S	68		
	Plain Cornice	PC'S	92		
	Gypsum Screw 1" 100pcs/box	Box	8		
	Gypsum powder	Bags	13		
	Fibre tape@90m	Pcs	3		
	Treated softwood Timber 2" X 2" (3600mm long)	pcs	198		
	Nails 4"	Kgs	4		
	Nails 3"	Kgs	12		
	<b>SUB-TOTAL FOR FINISHING</b>				
<b>G</b>	<b>PAINTING &amp; DECORATION</b>				
	Emulsion Paint - 20 LTRS	buckets	6		
	Weather guard Paint - 20 LTRS	buckets	3		
	Washable paint -20 LTRS	buckets	3		
	Primer paint -20 LTRS	buckets	2		
	Solvent - 5LTRS	TIN	2		
	Brush 3"	Pcs	3		
	Roller	Pcs	3		
	Gloss paint-4LTR	TIN	4		
	Bitumen paint - 4Litres	TIN	3		
	<b>SUB-TOTAL FOR PAINTING&amp;DECORATION</b>				

ITEM	DESCRIPTION	UNIT	QTY	PRICE-TZS	AMOUNT
<b>H</b>	<b>ELECTRICAL INSTALLATION</b>				
	Single fluorescent fitting Complete, LED philips or other equal approved	17	No		
	Double switch socket ABB or other equal approved	12	No		
	Main switch 8way, 1PH with integral RCD 100A/300mA ABB other equal approved	1	No		
	<b>NB:</b> Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved				
	Single core wire 1.5sqmm - Red	3	Roll		
	Single core wire 1.5sqmm - Black	3	Roll		
	Single core wire 1.5sqmm -green	3	Roll		
	Single core wire 2.5sqmm - red	2	Roll		
	Single core wire 2.5sqmm	2	Roll		
	Single core wire 2.5sqmm green	2	Roll		
	Single core wire 4sqmm -Red	0	M		
	Single core wire 4sqmm -Black	0	M		
	Single core wire 4sqmm -Green	0	M		
	Ceiling fan National or other equal approved	9	PC's		
	3gang 1 way switch ABB or other equal approved	0	No		
	1gang 1 way switch ABB or other equal approved	0	No		
	2gang 1 way switch ABB or other equal approved	6	No		
	4gang 2 way switch ABB or other equal approved	1	No		
	DP switch 20A ABB or other equal approved	0	No		
	Earth rod approved copper 16mm not less than 1200mm	1	No		
	Earth wire 4sqmm	20	M		
	Metal box twin	12	No		
	Metal box single	7	No		
	Junction box	50	No		
	Conduit pipe	180	PC's		
	Elbow	50	PC's		
	Conduit coupling	50	PC's		
	Round cover	10	PC's		
	Round box	10	PC's		
	Fine screw	2	PACKE		
	Data socket	0	No		
	Smoke detector	0	No		
	plastic clips 22mm	3	BOX		
	Bulk head light fitting	4	PCS		
	Handdrier	0	No		
	<b>SUB-TOTAL FOR ELECTRICAL INSTALLATION</b>				

	<b><u>SUMMARY</u></b>				<b>AMOUNT</b>
	<b><u>ADMINISTRATION BLOCK (DRY AREA)</u></b>				
A.	SUBSTRUCTURE - PROVISIONAL				
B.	SUPERSTRUCTURE				
C.	ROOF STRUCTURE & COVERING				
D.	DOOR				
E.	WINDOWS				
F.	FINISHING				
G.	PAINTING & DECORATION				
H.	ELECTRICAL INSTALLATION & AIR CONDITIONING				
	<b>TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMARY</b>				

	<b><u>ADD:</u></b>				
	LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective Labour form)				
	<b>Note:</b>				
	i. Refer attached specification and number of Furniture(s) for Administration Block				
	ii. Refer General Summary for: Preliminary, Transportation and Supervision Costs				
	<b>iii. Preliminary cover the following item:</b>				
	- Setting out working tools, Equipments, Temporary toilets, water for the works, Scaffolding,				
	- Power for the works, Security, store, Materials test, levelling, holdings and removal of rubbish.				
	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**

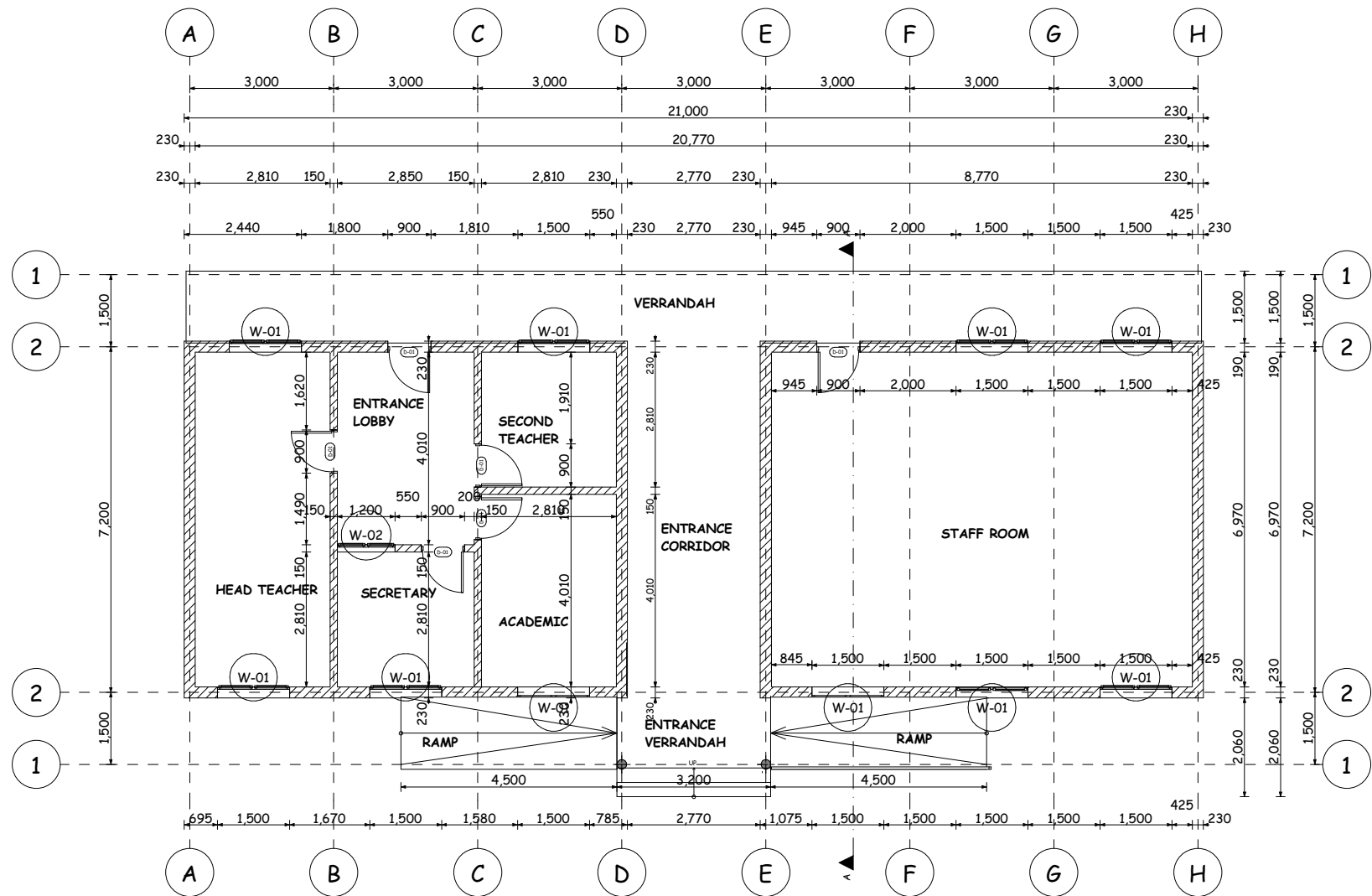
President's Office, Regional Administration  
and Local Government.  
Government City-Mtumba,  
TAMISEMI Street,  
P.O. Box 1923,  
**41185 DODOMA**

JANUARY, 2023

# ARCHITECTURAL DRAWINGS

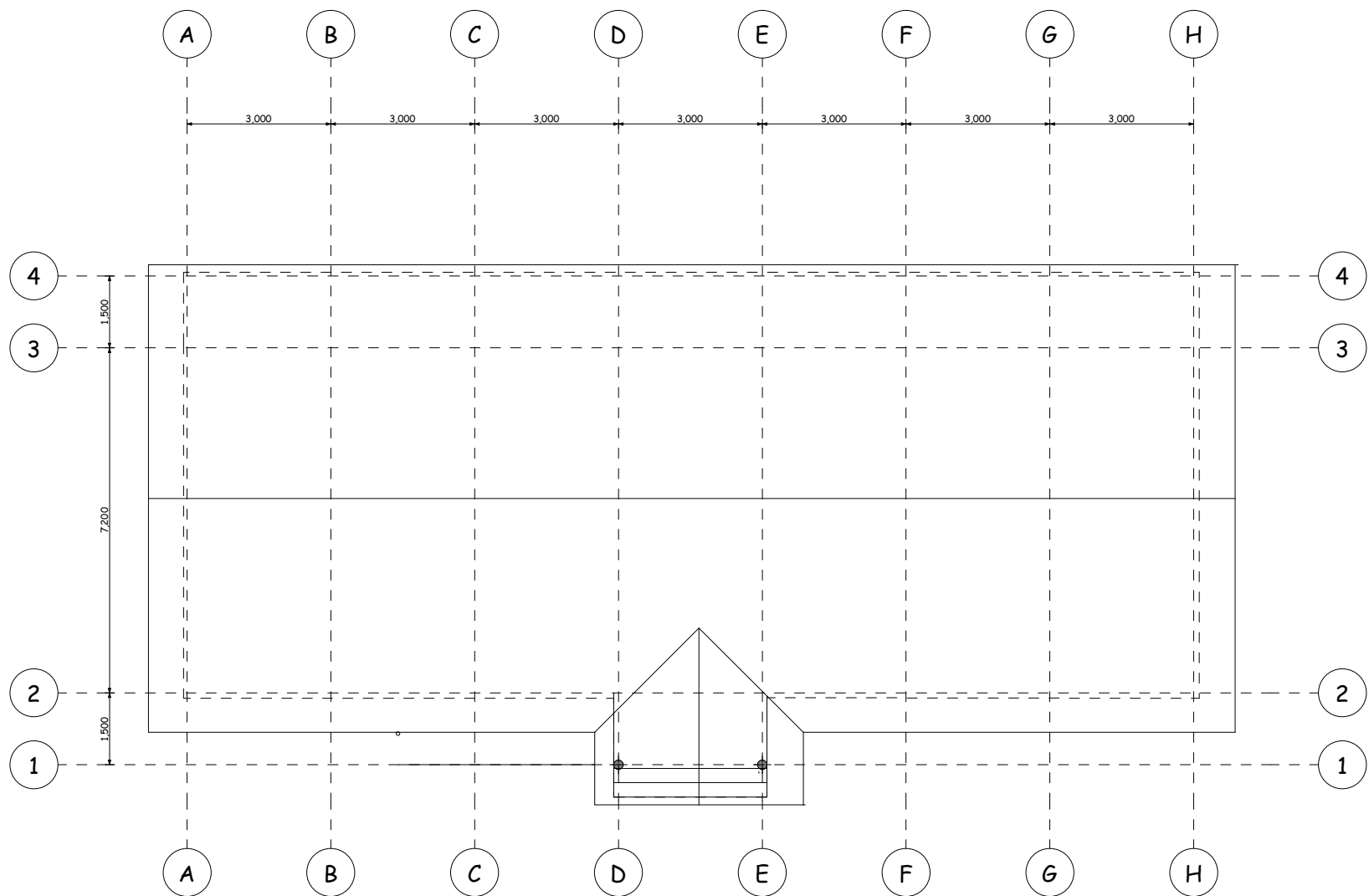


# **ADMINISTRATION BLOCK RURAL TYPE GABLE**

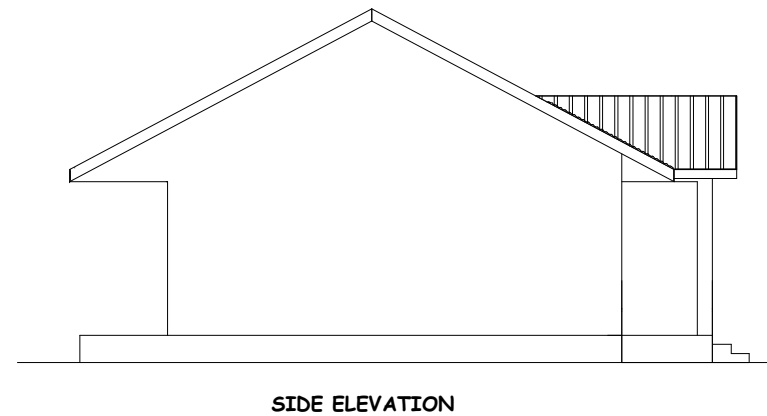
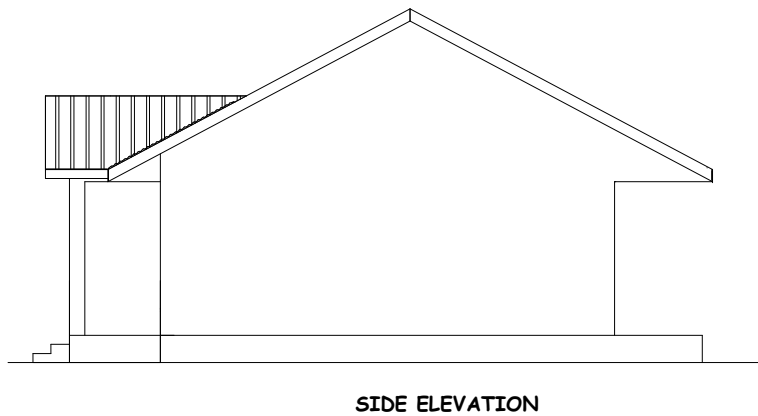
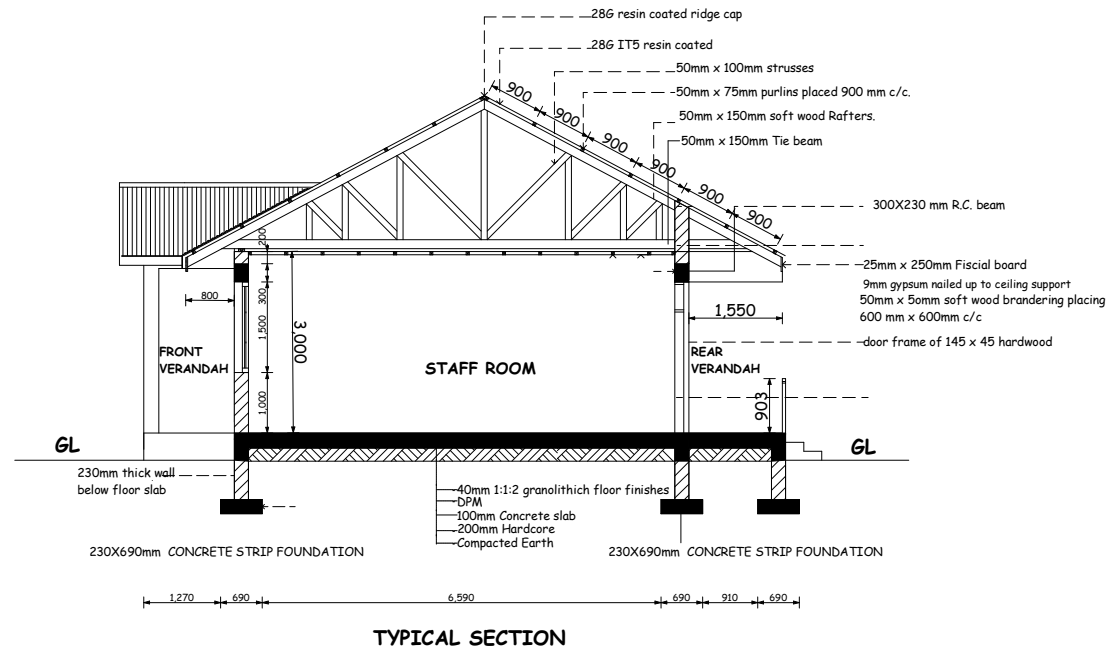


WINDOW SCHEDULE		
WINDOW TYPE	HEIGHT x WIDTH	QUANTITY(S)
W 01	1500mm x 1500mm	10
W 02	1200mm x 1500mm	1
TOTAL		11
DOOR SCHEDULE		
D 1	900mm x 2500mm	6
TOTAL		6

REVISED 1



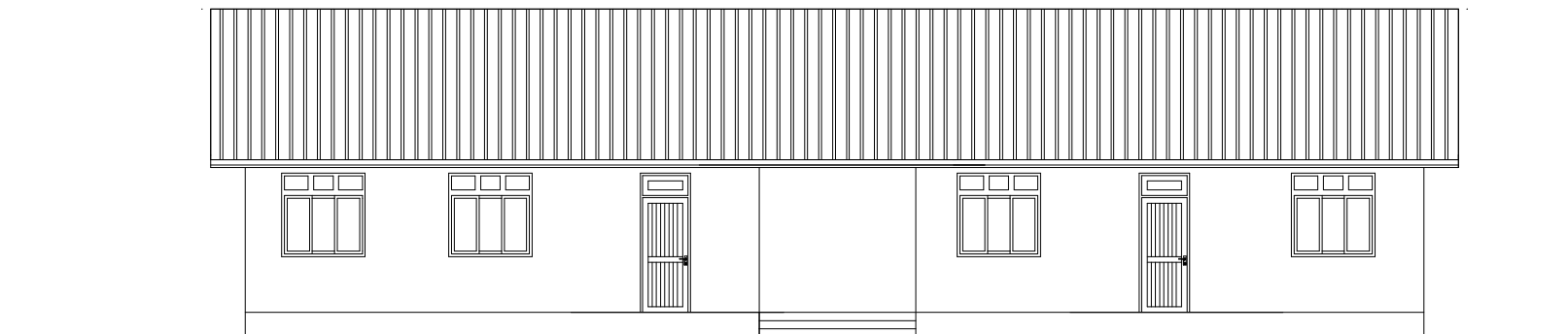
REVISED 1



**REVISED 1**



FRONT ELEVATION



REAR ELEVATION

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 ADMINISTRATION BLOCK RURAL TYPE

DRAWING TITLE:

FRONT AND REAR ELEVATIONS

DRAWING NO: ARC/3CRG/04

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



**STRUCTURAL DRAWINGS**

**FOR**

**ADMINISTRATION BLOCK RURAL TYPE - GABLE**

NOTE:-

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm<sup>2</sup>.
5. 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.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

• Slabs .....25mm

• Beams .....25mm

• Columns .....25mm

• Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm<sup>2</sup>.

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:

ADMINISTRATION BLOCK

FOUNDATION LAYOUT PLAN

(REVISED -1)

DRAWING USE:

For Building permit:

For Construction:

Drawn by:

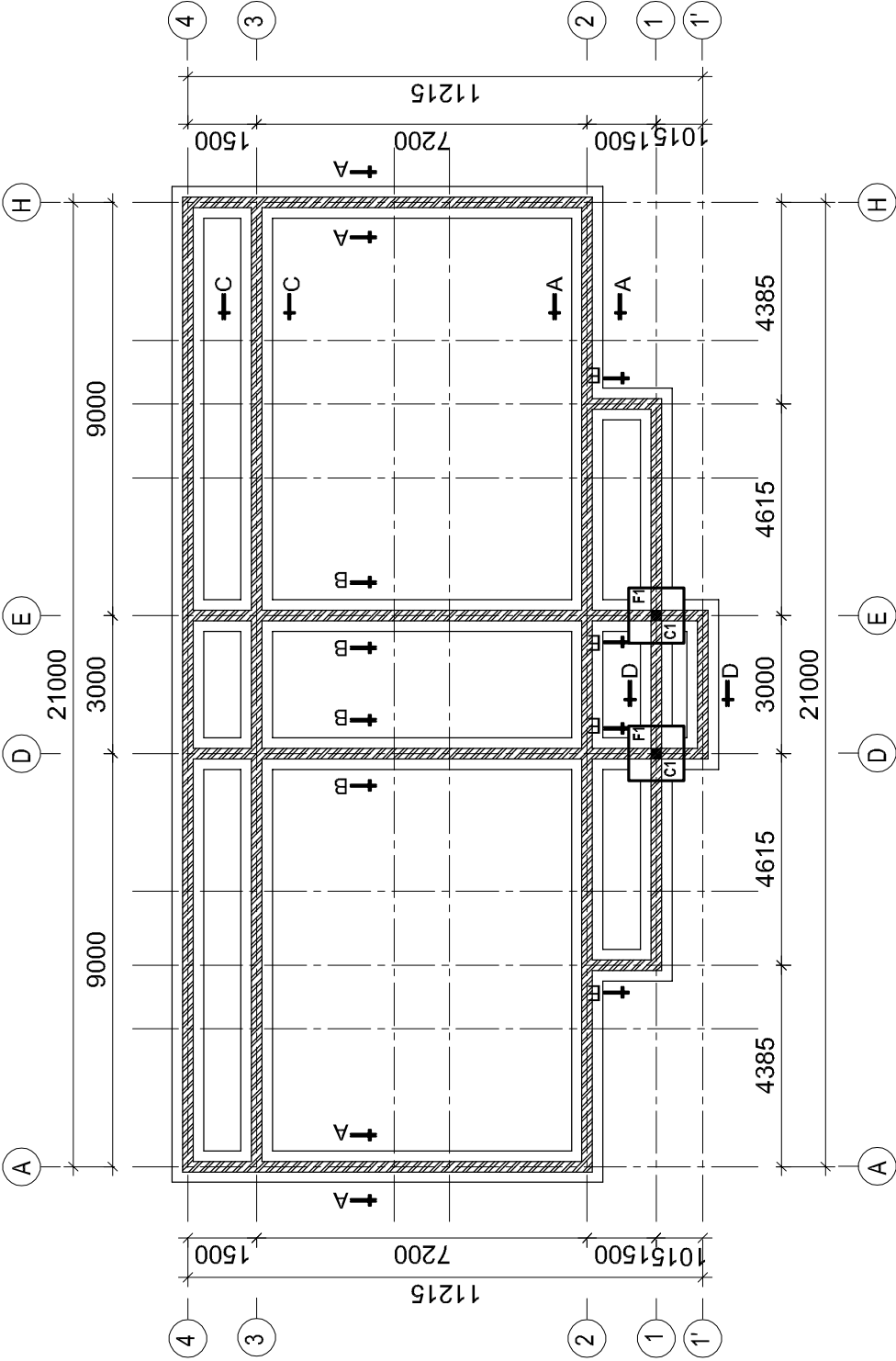
J.M.S

Date: 2022

Scale:

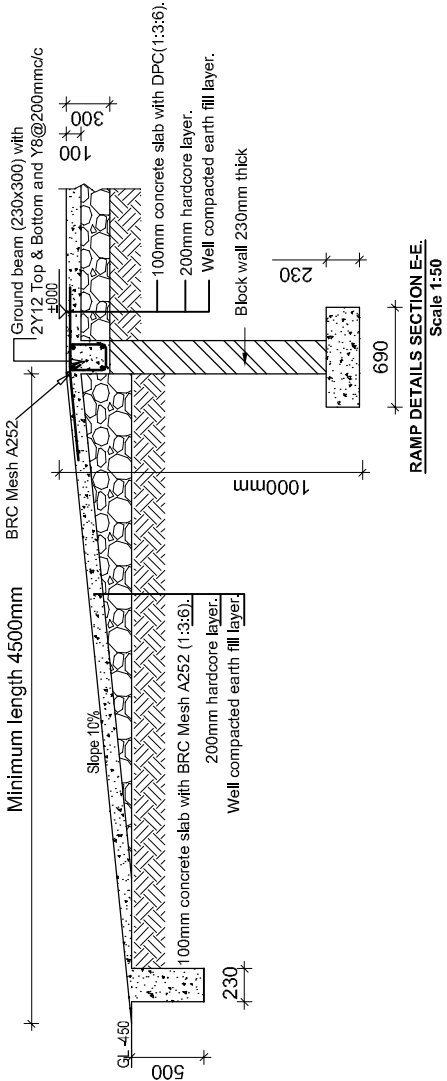
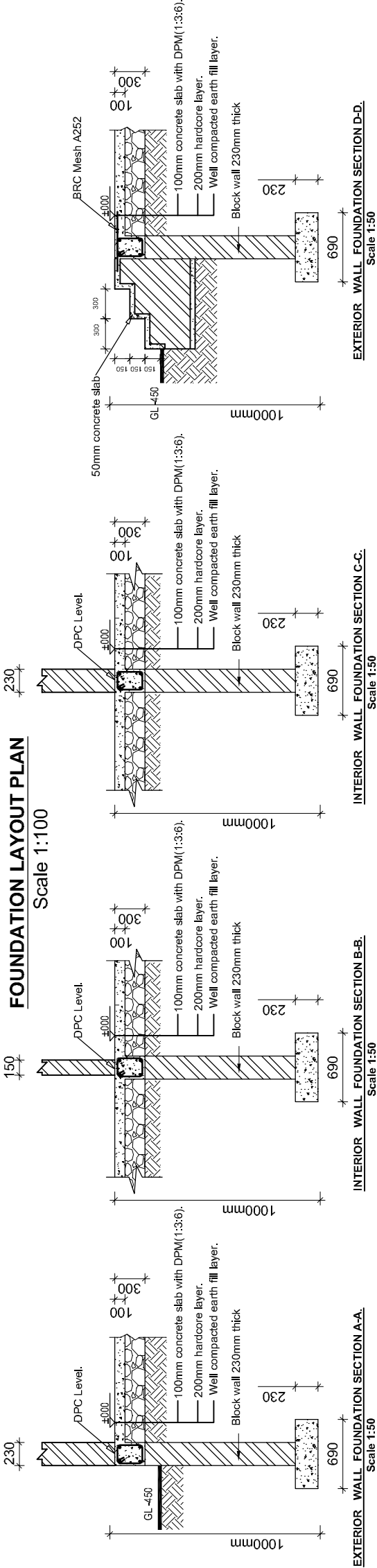
Drawing No:STR.CR

Sheet: 01/08



FOUNDATION LAYOUT PLAN

Scale 1:100



NOTE:

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm<sup>2</sup>.
5. 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.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

• Slabs .....25mm

• Beams .....25mm

• Columns .....25mm

• Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be dean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm<sup>2</sup>.

PROJECT:  
PROVISION OF PHYSICAL  
FACILITIES IN PRIMARY SCHOOLS

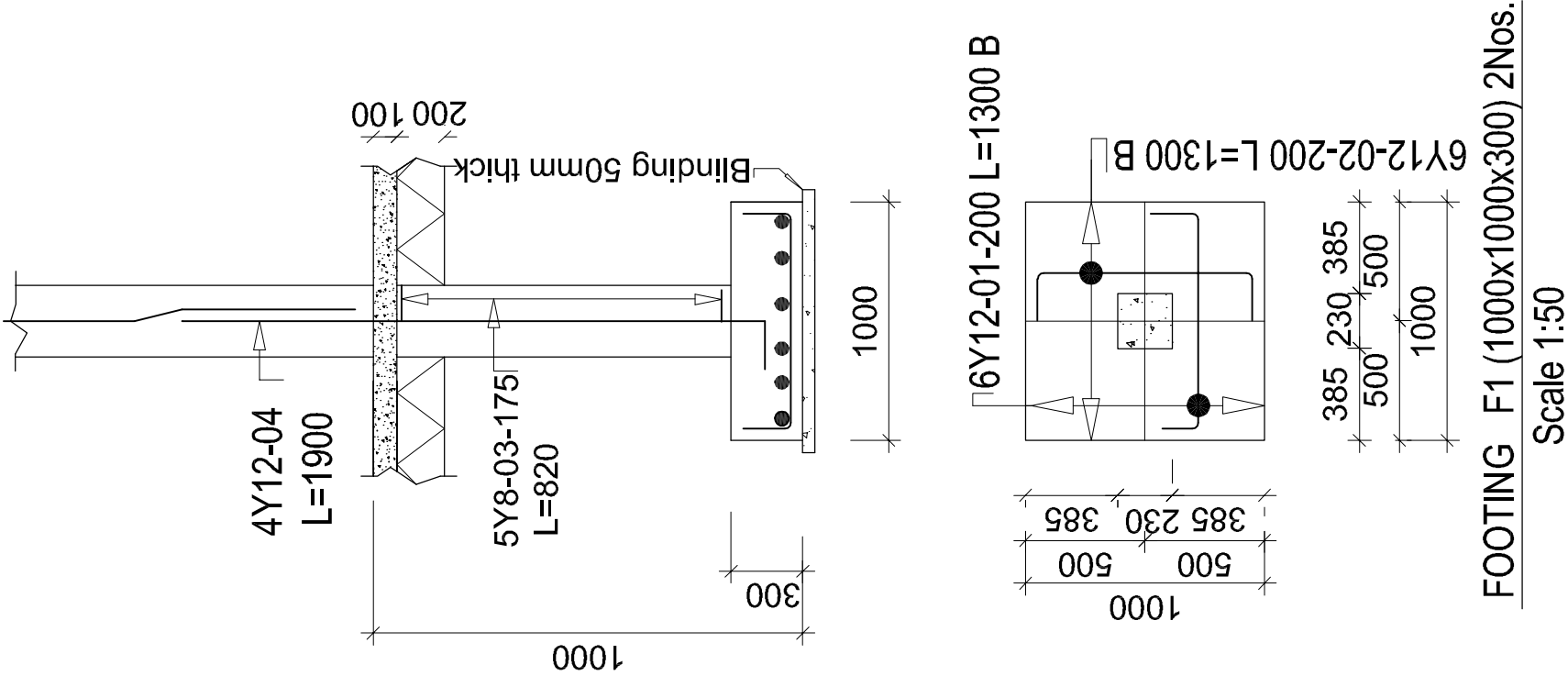
MINISTRY OF EDUCATION,  
SCIENCE AND TECHNOLOGY  
  
*IN COLLABORATION WITH*  
  
PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION AND  
LOCAL GOVERNMENT.

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

DRAWING TITLE:  
ADMINISTRATION BLOCK  
  
COLUMN FOOTINGS AND  
COLUMNS DETAILS  
  
(REVISED - 1)

DRAWING USE:  
For Building permit: ☐  
For Construction: ☒

Drawn by: J.M.S  
Date: 2022  
Drawing No:STR.CR  
Sheet: 02/08



NOTE:

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1:2:4 cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm<sup>2</sup>.
5. Bars lap length should be at least 50 times the diameter of the bars lapped.
6. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

• Slabs .....25mm

• Beams .....25mm

• Columns .....25mm

• Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm<sup>2</sup>.

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.

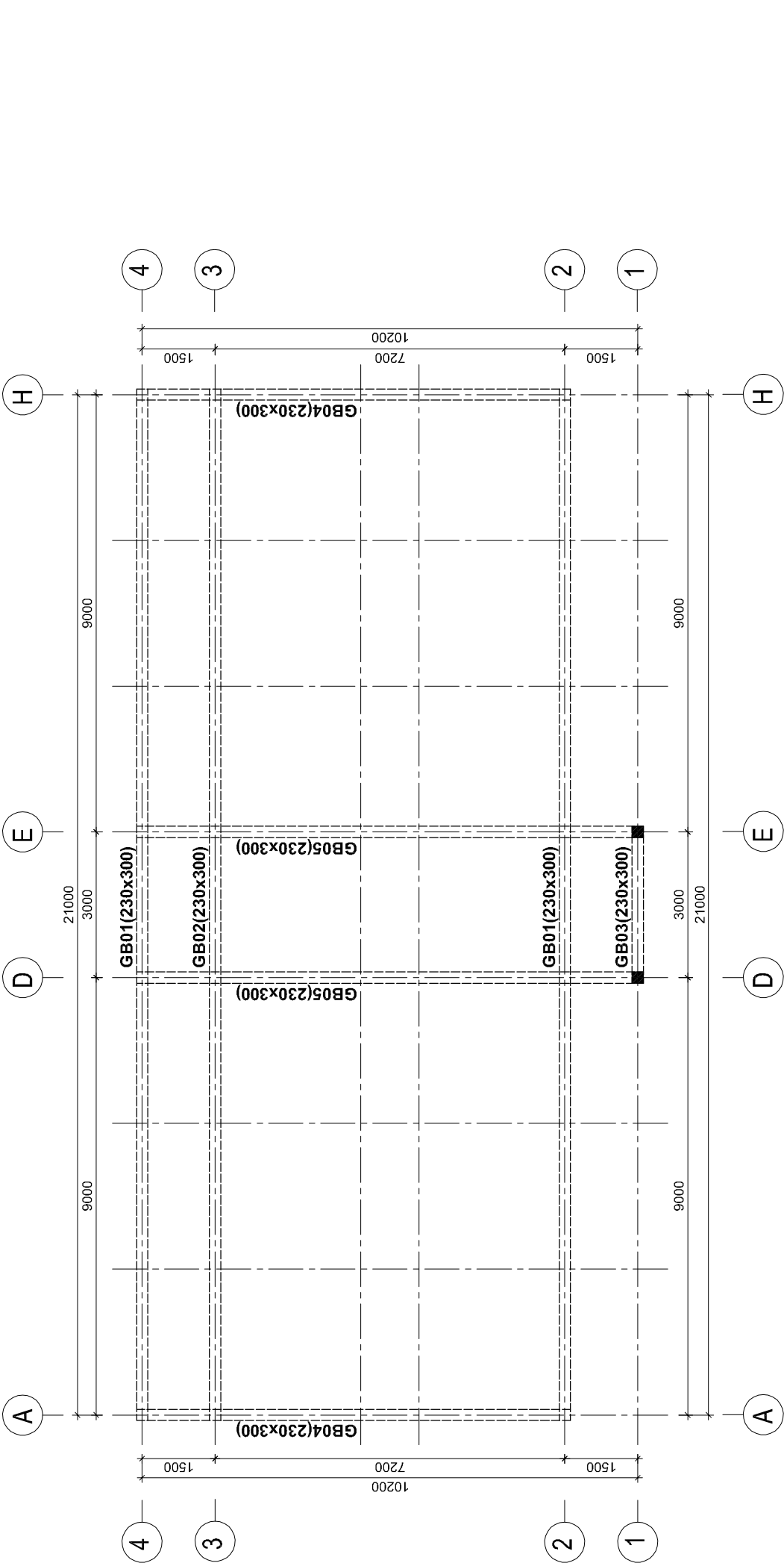
Designed by: Eng. J.M.S  
Checked by: Eng. N.T.B  
Approved by:

DRAWING TITLE:  
ADMINISTRATION BLOCK  
  
GROUND FLOOR BEAMS LAYOUT  
PLAN AND SECTION DETAILS  
  
(REVISED -1)

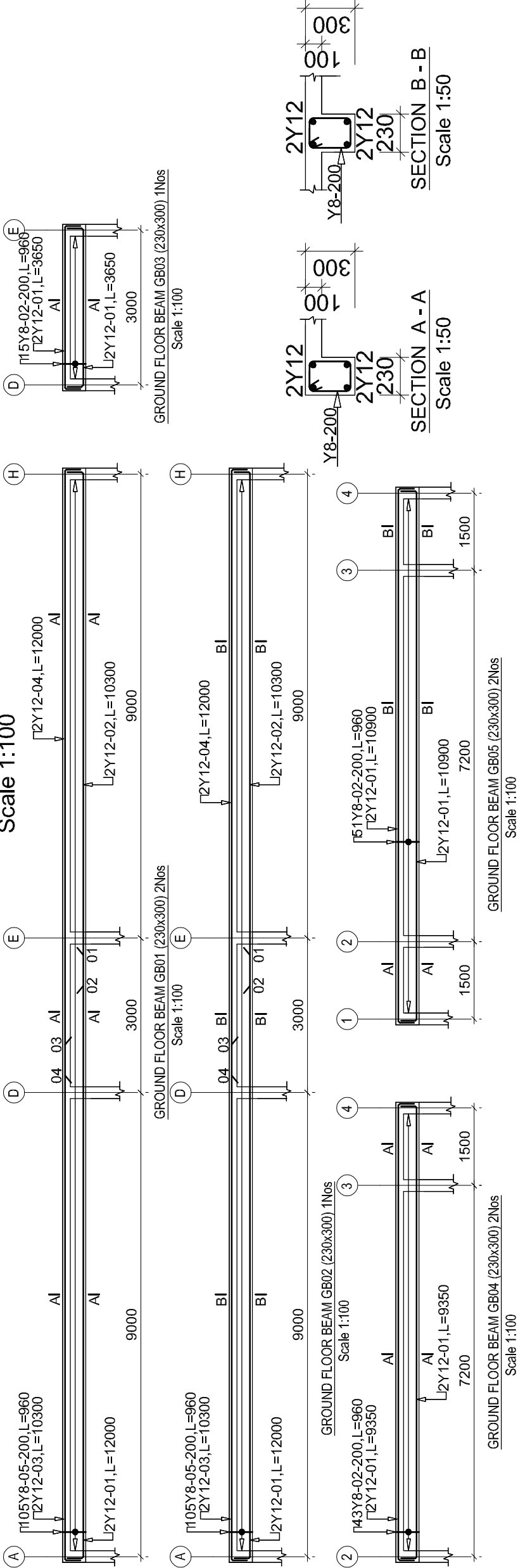
DRAWING USE:  
For Building permit:  
  
For Construction:  

✓

Drawn by: J.M.S  
Date: 2022  
Drawing No:STR.CR  
Sheet: 03/08



GROUND FLOOR BEAMS LAYOUT PLAN



NOTE:-

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1 : 2 : 4 cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm<sup>2</sup>.
5. 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.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:
  - Slabs .....25mm
  - Beams .....25mm
  - Columns .....25mm
  - Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm<sup>2</sup>.

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.

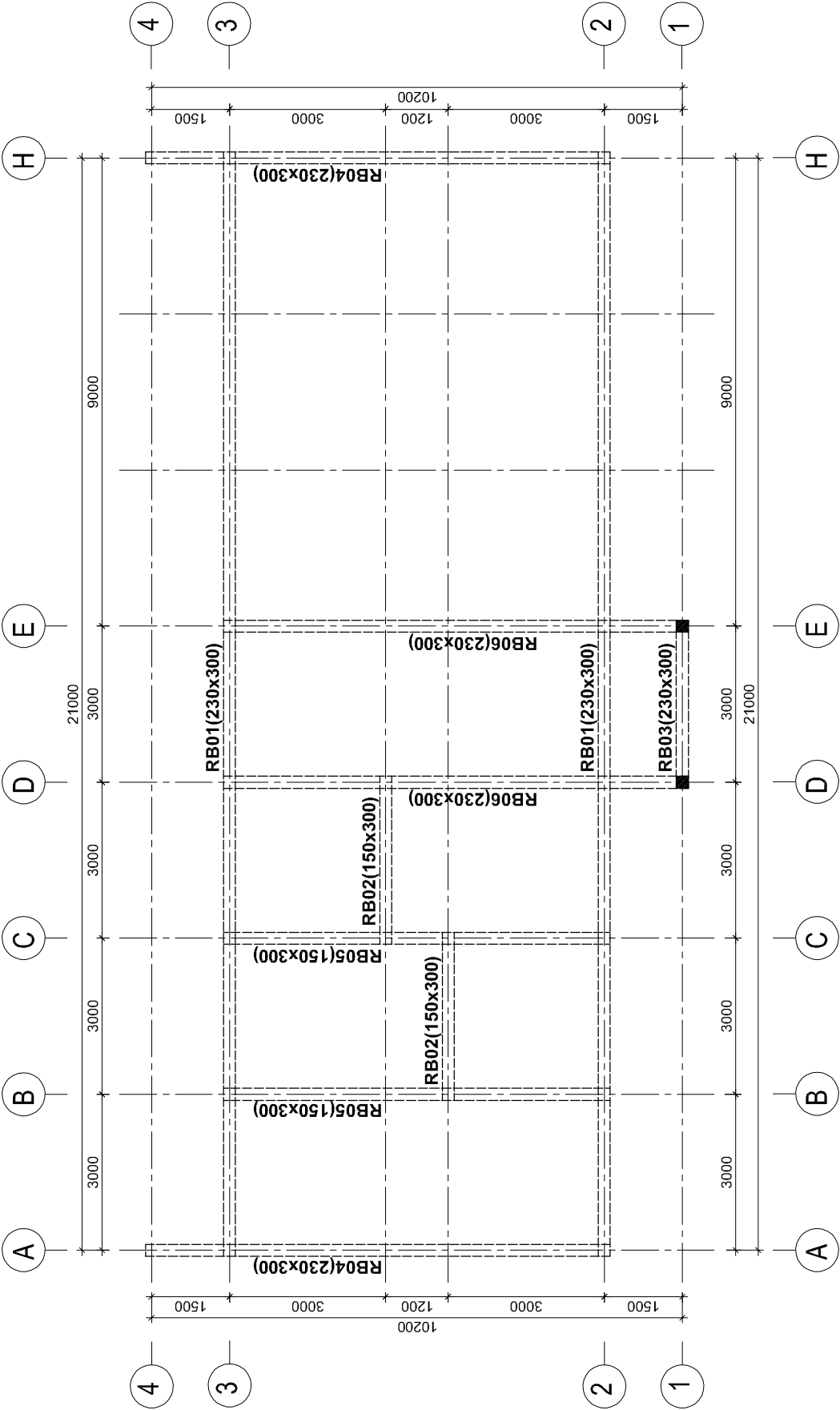
Designed by: Eng. J.M.S  
Checked by: Eng. N.T.B  
Approved by:

DRAWING TITLE:  
ADMINISTRATION BLOCK

ROOF RINGS BEAMS LAYOUT PLAN  
AND SECTION DETAILS  
  
(REVISED - 1)

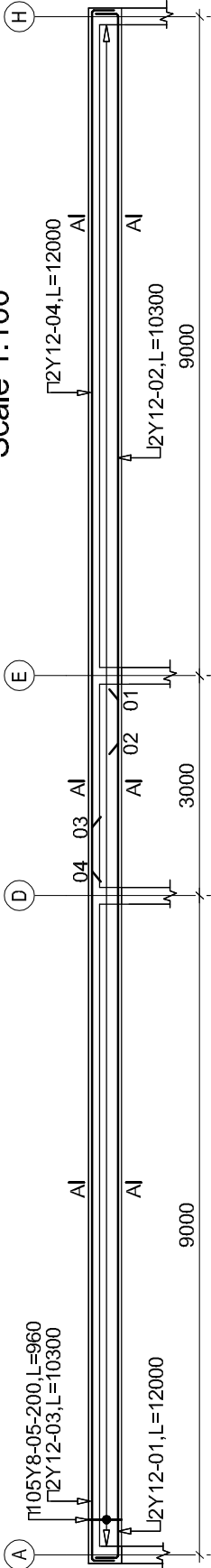
DRAWING USE:  
For Building permit:  
For Construction:

Drawn by: J.M.S  
Date: 2022  
Drawing No:STR.CR  
Scale:  
Sheet: 04/08



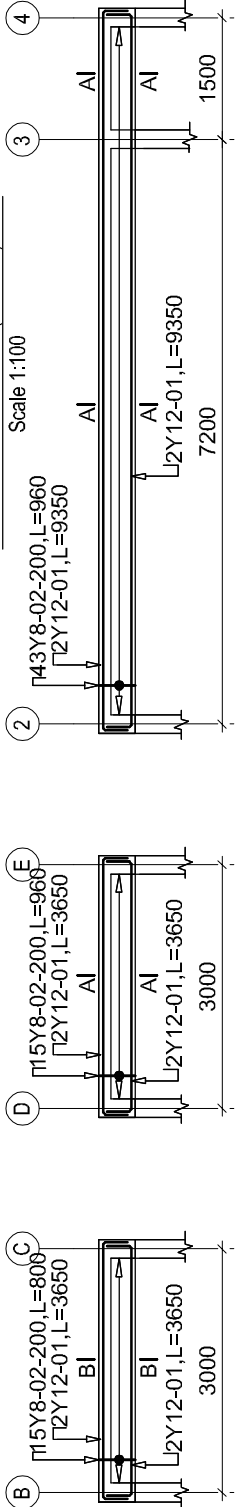
ROOF RING BEAMS LAYOUT PLAN

Scale 1:100



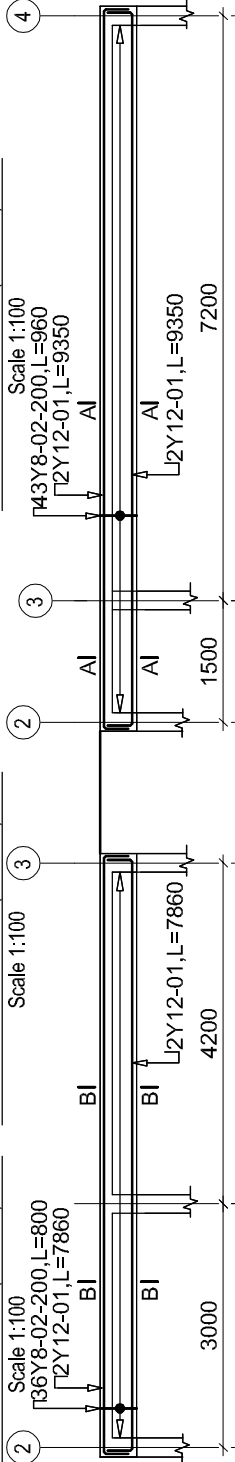
ROOF RING BEAM RB01 (230x300) 2Nos

Scale 1:100



ROOF RING BEAM RB04 (230x300) 2Nos

Scale 1:100



ROOF RING BEAM RB05 (150x300) 2Nos

Scale 1:100



SECTION A - A

Scale 1:50

SECTION B - B

Scale 1:50

NOTE:-

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm<sup>2</sup>.
5. 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.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

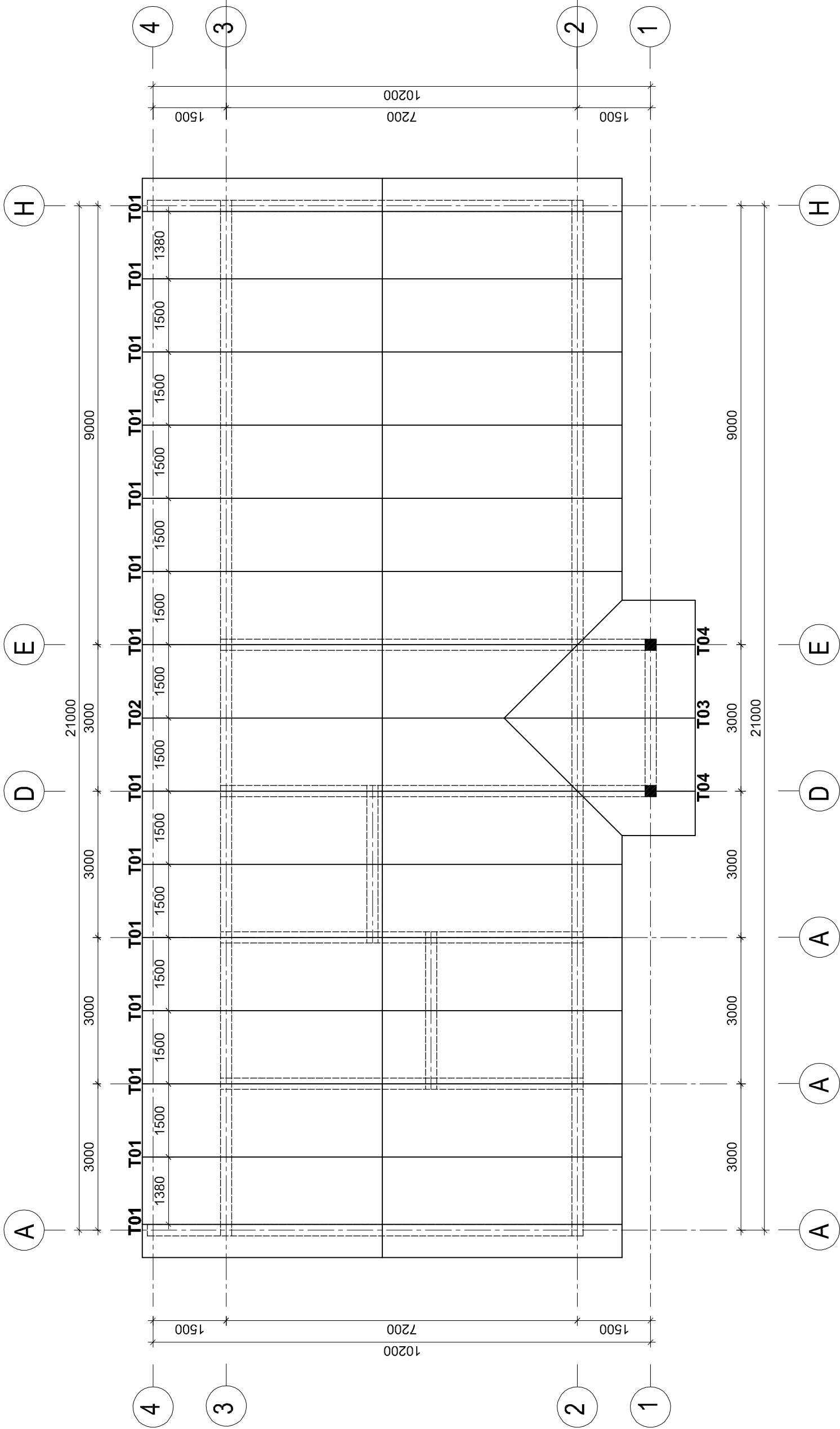
• Slabs .....25mm

• Beams .....25mm

• Columns .....25mm

• Footings .....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm<sup>2</sup>.

<b>PROJECT:</b> PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY  <i>IN COLLABORATION WITH</i>  PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT.
Designed by: Eng. J.M.S Checked by: Eng. N.T.B Approved by:
<b>DRAWING TITLE:</b> PROPOSED TWO - CLASSROOMS WITH OFFICE BLOCK  ROOF TRUSS LAYOUT PLAN  (REVISED - 1)
DRAWING USE: <div>For Building permit:<div></div></div> <div>For Construction:<div></div></div>
Drawn by: J.M.S
Date: 2022
Drawing No:STR.CR
Scale: Sheet: 05/08



ROOF TRUSS LAYOUT PLAN

Scale 1:100

NOTE:

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm<sup>2</sup>.
5. 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.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

• Slabs .....25mm

• Beams .....25mm

• Columns .....25mm

• Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm<sup>2</sup>.

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:

ADMINISTRATION BLOCK

ROOF TRUSS DETAILS

(REVISED - 1)

DRAWING USE:

For Building permit:

For Construction:

Drawn by:

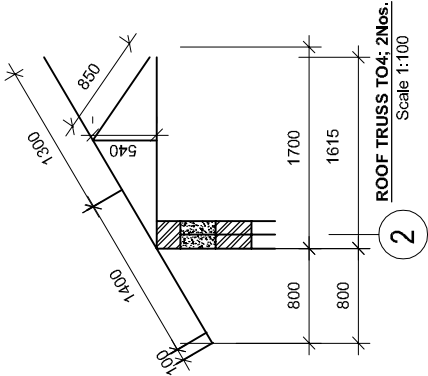
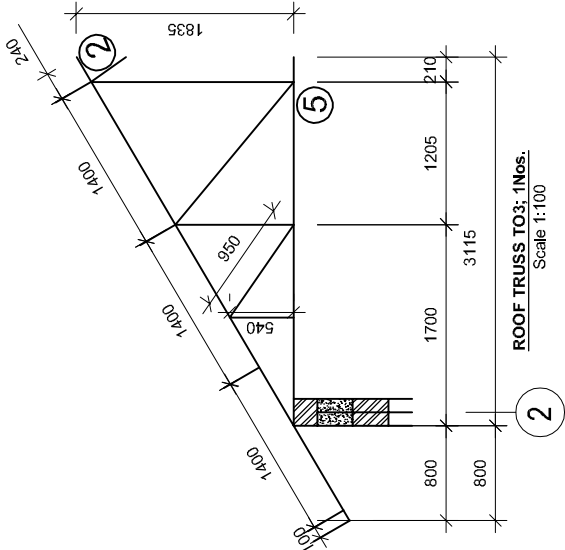
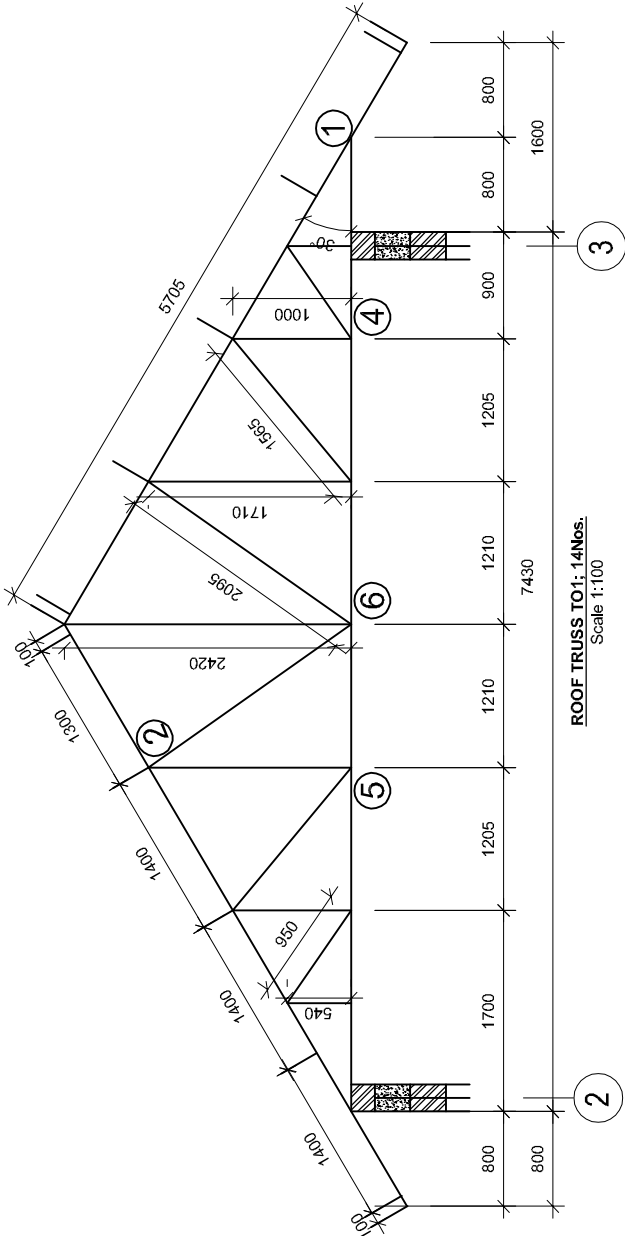
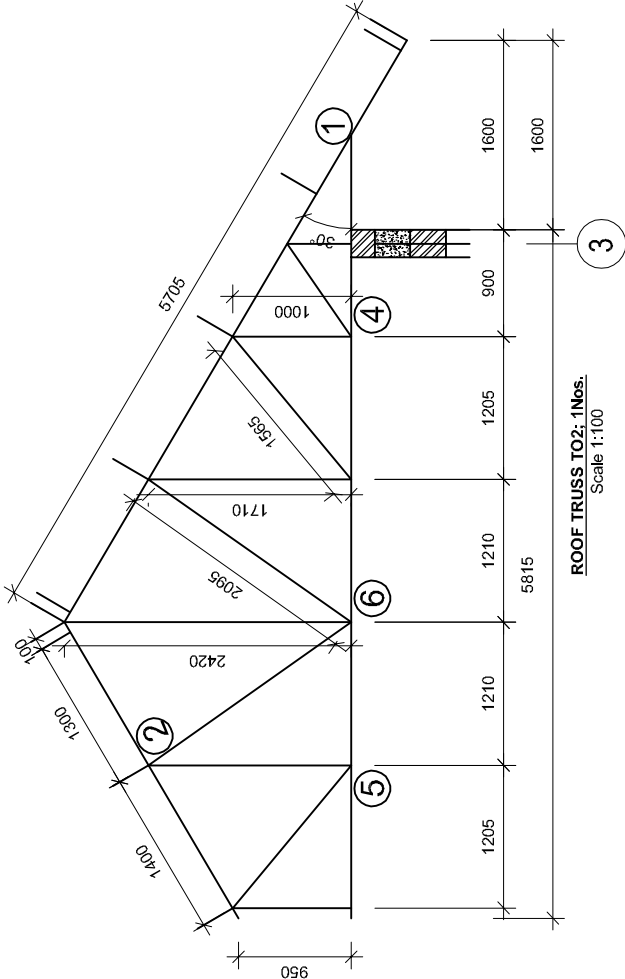
J.M.S

Date: 2022

Scale:

Drawing No:STR.CR

Sheet: 06/08



NOTE:

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3. All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1:2:4 cube strength not less than 20N/mm<sup>2</sup> at 28 days.
4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm<sup>2</sup>.
5. 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.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

• Slabs .....25mm

• Beams .....25mm

• Columns .....25mm

• Footings.....50mm
7. All concrete work to be done in one operation.
8. All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10. Minimum Compressive Strength for Blocks shall be 3.5N/mm<sup>2</sup>.

PROJECT:  
PROVISION OF PHYSICAL  
FACILITIES IN PRIMARY SCHOOLS

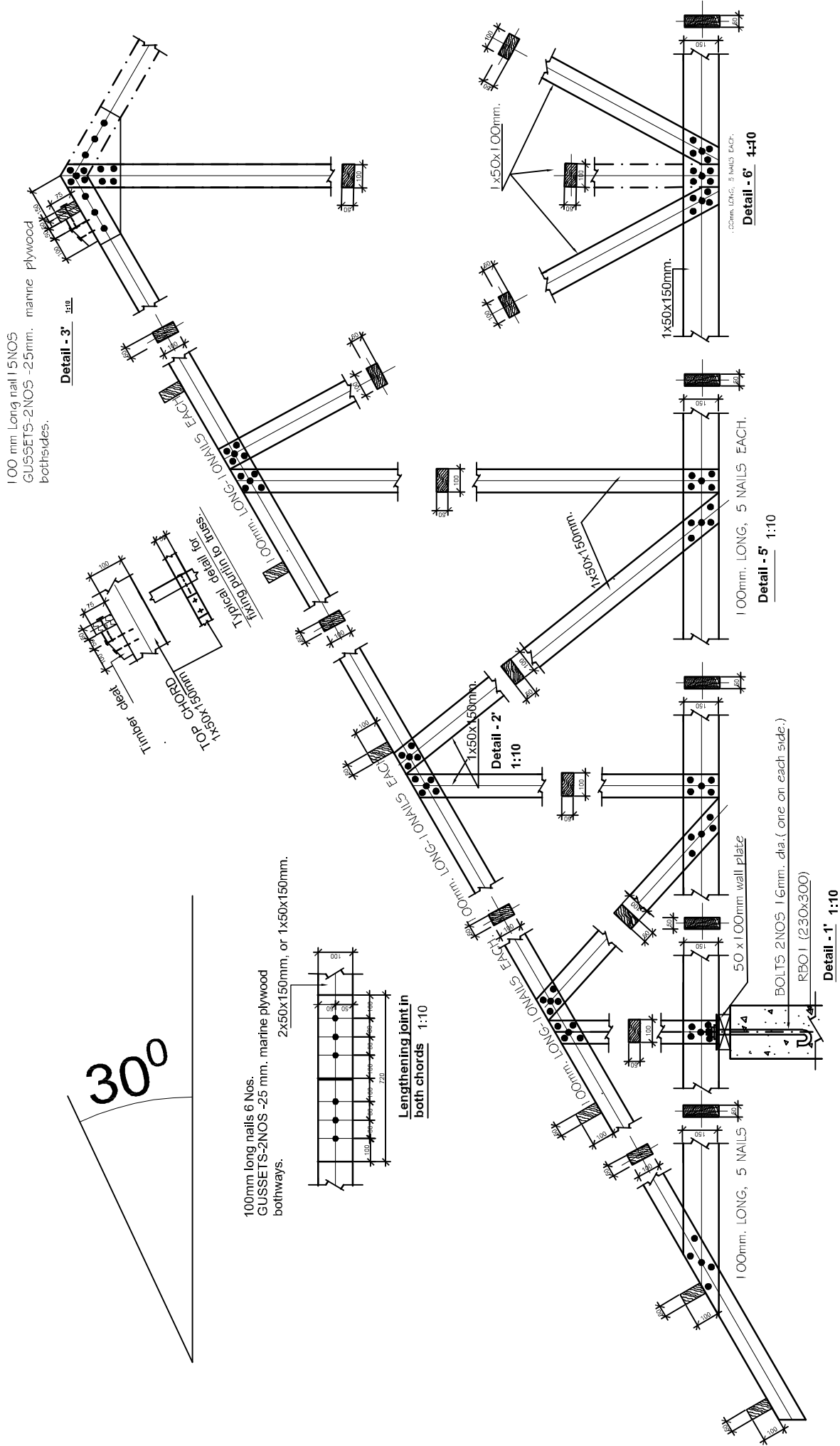
MINISTRY OF EDUCATION,  
SCIENCE AND TECHNOLOGY  
*IN COLLABORATION WITH*  
PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION AND  
LOCAL GOVERNMENT.

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

DRAWING TITLE:  
ADMINISTRATION BLOCK  
ROOF TRUSS  
CONNECTION DETAILS  
(REVISED - 1)

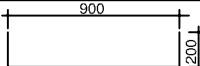
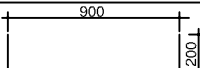

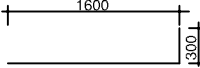
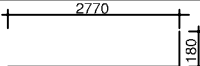

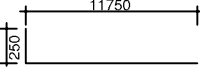
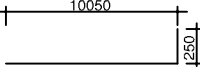
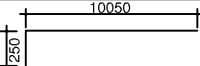
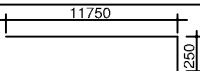

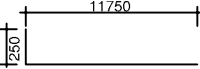
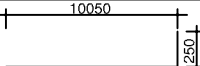
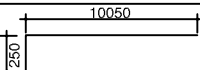
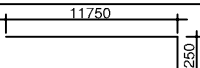

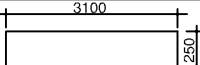

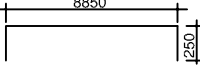

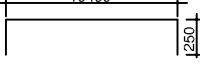

DRAWING USE:  
For Building permit:  
For Construction:

Drawn by: J.M.S  
Date: 2022  
Drawing No:STR.CR  
Scale:  
Sheet: 07/08







Page 1/2	Bar Bending Schedule							
	PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PROPOSED ADMINISTRATION BLOCK (COLUMN FOOTINGS, COLUMNS AND GROUND FLOOR BEAMS)							
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
COLUMN FOOTING	2	01	Y12	1300	12	15.6		
COLUMN FOOTING	2	02	Y12	1300	12	15.6		
COLUMN STARTER	2	03	Y8	820	10	8.2		
COLUMN STARTER	2	04	Y12	1900	8	15.2		
COLUMN	2	01	Y12	2950	8	23.6		
COLUMN	2	02	Y8	820	30	24.6		
GROUND BEAM 1	2	01	Y12	12000	4	48		
GROUND BEAM 1	2	02	Y12	10300	4	41.2		
GROUND BEAM 1	2	03	Y12	10300	4	41.2		
GROUND BEAM 1	2	04	Y12	12000	4	48		
GROUND BEAM 1	2	05	Y8	960	210	201.6		
GROUND BEAM 2	1	01	Y12	12000	2	24		
GROUND BEAM 2	1	02	Y12	10300	2	20.6		
GROUND BEAM 2	1	03	Y12	10300	2	20.6		
GROUND BEAM 2	1	04	Y12	12000	2	24		
GROUND BEAM 2	1	05	Y8	960	105	100.8		
GROUND BEAM 3	1	01	Y12	3650	4	14.6		
GROUND BEAM 3	1	02	Y8	960	15	14.4		
GROUND BEAM 4	2	01	Y12	9350	8	74.8		
GROUND BEAM 4	2	02	Y8	960	86	82.56		
GROUND BEAM 5	2	01	Y12	10900	8	87.2		
GROUND BEAM 5	2	02	Y8	960	102	97.82		

### Bar Bending Schedule

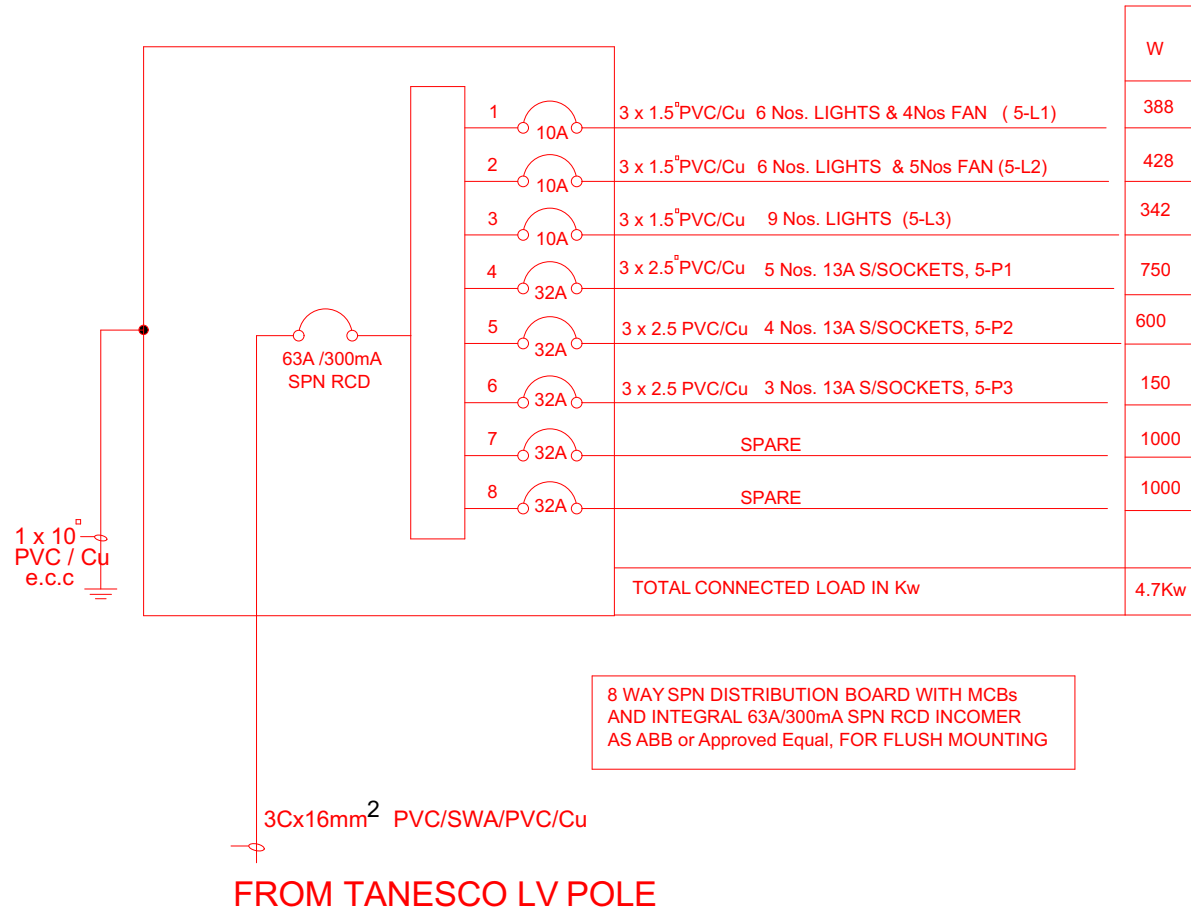
PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PROPOSED ADMINISTRATION BLOCK  
(ROOF RING BEAMS)

[illegible]

# **ELECTRICAL DRAWINGS**
















## ADMINISTRATION BLOCK RURAL DISTRIBUTION BOARD (DB-5)



REVISED 1

# KEY TO SYMBOLS

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

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

DRAWING TITLE:  
PROPOSED ADMINISTRATION BLOCK -RURAL TYPE  
LEGEND  
DRAWING NO: P/3L3CT/05

Date	December 2022
Drawn by	EEC
Checked by	EEC
Scale	NTS