

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 with
Office 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.

Schedule of Material

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
	<u>MATERIALS</u>				
A	<u>SUB-STRUCTURE -PROVISIONAL</u>				
1	<u>Strip Foundation - Grade 15 Plain</u>				
	Aggregate (3/4")	12	M ³		
	Sand	6	M ³		
	Cement-50kgs (42.5)	60	Bags		
2	<u>Foundation Walls</u>				
	6" Cement & Sand block - Minimum Strength 3.5 MPa	1,246	No		
	Sand	4	M ³		
	Cement -50kgs (42.5)	21	Bags		
3	<u>Moram, Hardcore & Site sterilization</u>				
	Moram (4.5m ³ lorry)	9	Trips		
	Hardcore 200mm thick - (4.5m ³ lorry)	9	Trips		
	Sand	9	M ³		
	Aldrin solution or other and equal approved (1000mls)	2	Bottle		
4	<u>Oversite Concrete 100mm thick - 15 grade ,Ground Beam and base column - 20 grade</u>				
	DPM	186	M ²		
	Cement -50kgs (42.5)	130	Bags		
	Aggregates (1/2")	11	M ³		
	Sand	21	M ³		
	Reinforcement - 12mm diameter high tensile 460N/mm ²	38	PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm ²	40	PC'S		
	Binding Wire - 25kg	10	Kg		
	Timber 1" X 10 " (5.2m long)	14	PC'S		
	Timber 2" X 2"	10	PC'S		
	Nails-4"	10	Kgs		
	Nails-3"	13	Kgs		
	Supporting props	12	PC'S		
	SUB-TOTAL SUBSTRUCTURE				
B.	<u>SUPERSTRUCTURE</u>				
1	<u>Walls Ring beam & Columns</u>				
	6" Cement & Sand block - Minimum Strength 3.5 MPa - 230mm	2,380	No		
	6" Cement & Sand block - Minimum Strength 3.5 MPa- 150mm	396	No		
	DPC 25m	1	Roll		
	Sand	12	M ³		
	Cement-50kgs (42.5)	93	Bags		
	Aggregates (1/2")	4	M ³		
	Reinforcement - 12mm diameter high tensile 460N/mm ²	30	PC'S		
	Reinforcement - 8mm diameter high tensile 460N/mm ²	31	PC'S		
	Binding Wire - 25kg	10	Kg		
	Timber 1" X 10" to Sides (5.2m long)	17	PC'S		
	Timber 1" X 5" (Plates)	5	PC'S		
	Timber 2" X 2"	12	PC'S		
	Supporting Props	12	PC'S		
	SUB-TOTAL SUPER STRUCTURE				

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
C.	<u>ROOF STRUCTURE & COVERING</u>				
1	<u>Roof Structure - Provisional</u>				
	Timber 2 " X 3" Purlins	57	PC'S		
	Timber 2" X 4" King Post, wall plate and struts	80	PC'S		
	Timber 2" X 6" Rafter and Tie beam	68	PC'S		
	Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long)	15	PC'S		
	Nails -5"	45	Kgs		
	Nails -4"	45	Kgs		
	Nails -3"	25	Kgs		
	16mm diameter bolt	34	Pc's		
	<u>NOTE:</u> The above softwood timber structure should be pressure impregnated treated				
2	<u>Roof Covering</u>				
	28G IT5 resin coated sheet size 3000x900mm	120	PC'S		
	Hips/Ridge and valley - 28 G IT resin coated	10	PC'S		
	Roofing Nails	27	Packet		
3	<u>Gutter's</u>				
	Upvc 100mm half round (6m long)-5"	12	PC'S		
	Upvc 75mm diameter down pipe; Class B	3	PC'S		
	PVC outlet	4	PC'S		
	PVC bend 90'	4	PC'S		
	PVC bend 45'	4	PC'S		
	Gutter support bracket	62	PC'S		
	Gutter Clamp 3"	17	PC'S		
	Connector/reducer	4	PC'S		
	Connector outer	4	PC'S		
	Corner Inner	4	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	2	PC'S		
	SUB-TOTAL ROOF STRUCTURE & COVERING				
D.	<u>CEILING</u>				
	Gypsum board -9mm thick	65	PC'S		
	Plain Cornice (8ft)	53	PC'S		
	Screw 1.25" 500pcs/box	3	Box		
	Gypsum powder	12	Bags		
	Fiber tape (90m)	2	Roller		
	Treated softwood Timber 2" X 2"	122	PC'S		
	Nails 4"	14	Kgs		
	Nails 3"	20	Kgs		
	SUB-TOTAL FOR CEILING				

SCHEDULE OF MATERIALS

TWO CLASSROOM BLOCK WITH OFFICE

GROSS FLOOR AREA =187 SQ.M

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
E. <u>DOOR</u>					
1	<u>40mm thick hardwood Matchboarded door shutter</u> 820 x 2100mm high	3	PC'S		
2	<u>45 x 145mm Frames (hardwood) & Varnish</u> 900 x 2500 mm high door frame 5mm thick clear glass to Vents 16mm diametere burglar bars -1100mm long Brush 3" Sand paper (msasa) No.80 Clear Varnish - 4Litres Thinner for Varnish	3 1 9 3 3 1 3	PC'S m2 Pcs Pcs LM TIN Litres		
3	<u>Ironmongeries - ref. Union</u> Mortice lock Three lever Brass butt hinges - 100mm	3 4.5	No Pairs		
SUB-TOTAL FOR DOORS					
F. <u>WINDOWS</u>					
1	<u>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</u> 1500 X 1500mm high 1100 X 1500mm high	11 1	PC'S PC'S		
2	<u>25 x 4mm thick flat bar grill painted red-oxide with 25 x 25mm square pipes frame and all necessary accessories</u> 1500 X 1500mm high 1100 X 1500mm high	1 1	PC'S PC'S		
SUB-TOTAL FOR WINDOWS					
G. <u>FINISHING</u>					
1	<u>Floor finishing</u> <u>Bedding/Backing; cement sand and Chipping (1:2:2); to steel finishing</u> 40mm Thick granolithic floor screed steel toweling to smooth finishing Sand Cement-50kgs (42.5) Chipping 2mm thick plastic Strips	10 65 15 233	M ³ Bags M ³ M		
2	<u>Wall Finishing-15mm thick (1:4)</u> Sand Cement-50kgs (42.5) Sand paper (msasa) No.120 White cement - 40kg Gypsum powder	13 82 11 5 11	M3 Bags M Bags Bags		
SUB-TOTAL FOR FINISHING					

ITEM	DESCRIPTION	QTY	UNIT	PRICE-TZS	AMOUNT
H.	<u>PAINTING & DECORATION</u>				
	Emulsion Paint - 20 LTRS	9	buckets		
	Weather guard Paint - 20 LTRS	3	buckets		
	Washable paint -20 LTRS	4	buckets		
	Primer paint -20 LTRS	2	buckets		
	Solvent - 5LTRS	2	TIN		
	Brush 3"	4	Pcs		
	Roller	4	Pcs		
	Gloss paint-4LTR	3	TIN		
	Bitumen paint - 4Litres	4	TIN		
	SUB-TOTAL FOR PAINTING&DECORATION				
J.	<u>BALUSTERS & HANDRAIL</u>				
	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.	<u>ELECTRICAL INSTALLATION</u>				
	Single fluorescent fitting Complete,LED philips or other equal approved	22	No		
	Double switch socket ABB or other equal approved	8	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	14	PC's		
	3gang 1 way switch ABB or other equal approved	4	No		
	2gang 1 way switch ABB or other equal approved	3	No		
	Earth rod approved copper 16mm not less than 1200mm	1	No		
	Earth wire 4sqmm	20	M		
	Metal box twin	8	No		
	Metal box single	7	No		
	Junction box	20	No		
	Conduit pipe	120	PC's		
	Elbow	20	PC's		
	Conduit coupling	20	PC's		
	Round cover	10	PC's		
	Round box	10	PC's		
	Fine screw	2	PACKET		
	plastic clips 22mm	2	BOX		
	Bulk head light fitting	4	PCS		
	ELECTRICAL INSTALLATION				

	<u>SUMMARY</u>				AMOUNT TZS
	<u>2NO. CLASSROOM BLOCK WITH OFFICE</u>				
A.	SUB-STRUCTURE -PROVISIONAL				
B.	SUPERSTRUCTURE				
C.	ROOF STRUCTURE & COVERING				
D.	CEILING				
E.	DOOR				
F.	WINDOWS				
G.	FINISHING				
H.	PAINTING & DECORATION				
J.	BALUSTERS & HANDRAILS				
K.	ELECTRICAL INSTALLATION				
	TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMARY				

	<u>ADD:</u>				
	LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective Labour form)				
	Note:				
	i. Refer attached specification and number of Furniture(s) for two classroom with office Block				
	ii. Refer General Summary for: Preliminary, Transportation and Supervision Costs				
	iii. Preliminary cover the following item:				
	- 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 .				

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PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

Ministry of Education, Science and Technology
Government City-Mtumba,
Afya Street,
P.O. Box 10,
40479 DODOMA

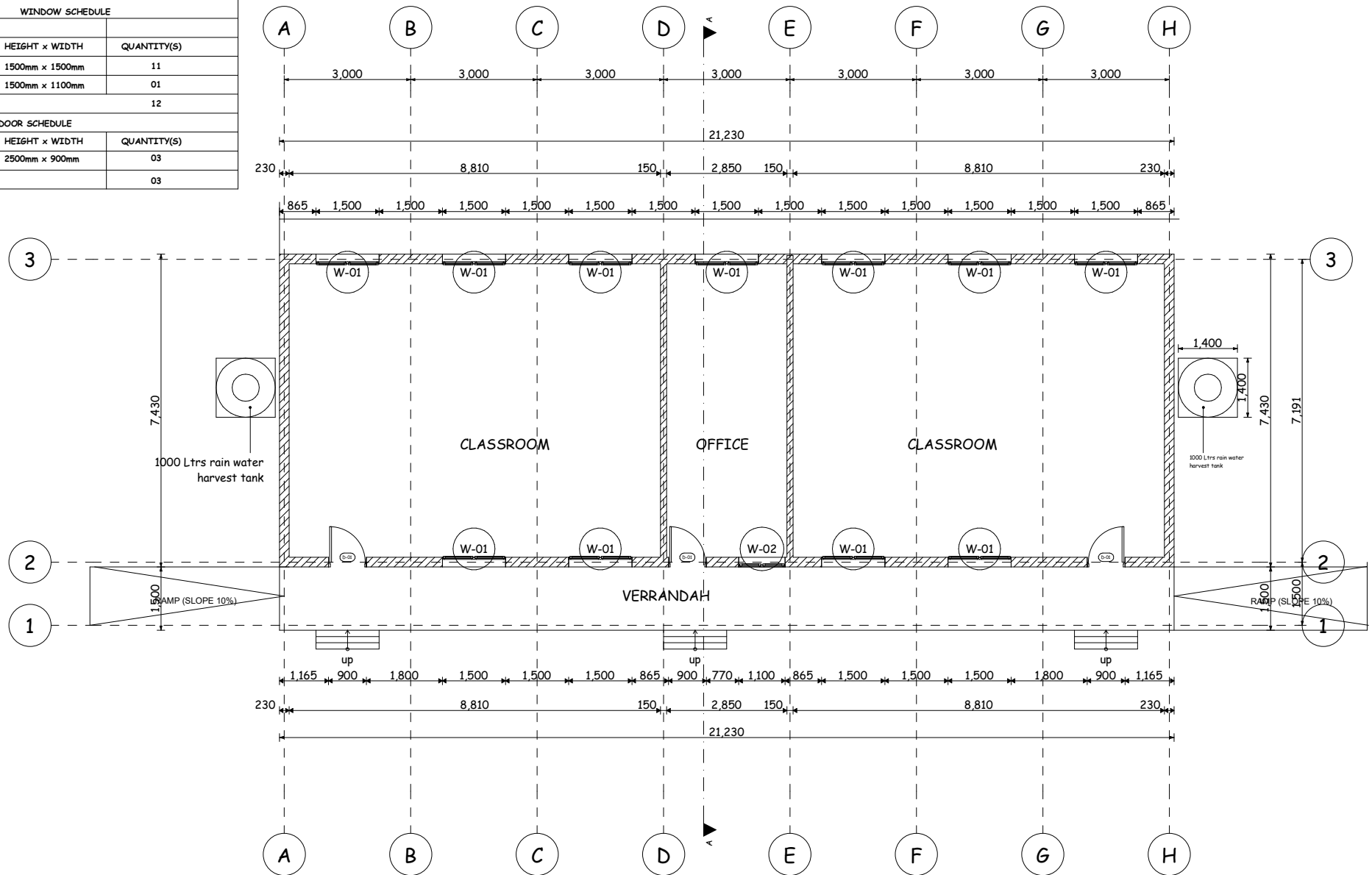
President's Office, Regional Administration
and Local Government.
Government City-Mtumba,
TAMISEMI Street,
P.O. Box 1923,
41185 DODOMA

JANUARY, 2023

ARCHITECTURAL DRAWINGS

**CLASSROOM BLOCK TYPE A - 2 ROOMS WITH OFFICE
GABLE**

WINDOW SCHEDULE		
WINDOW TYPE	HEIGHT x WIDTH	QUANTITY(S)
W1	1500mm x 1500mm	11
W2	1500mm x 1100mm	01
TOTAL		12
DOOR SCHEDULE		
DOOR TYPE	HEIGHT x WIDTH	QUANTITY(S)
D1	2500mm x 900mm	03
TOTAL		03



TOTAL FLOOR AREA = 189.6 SQM

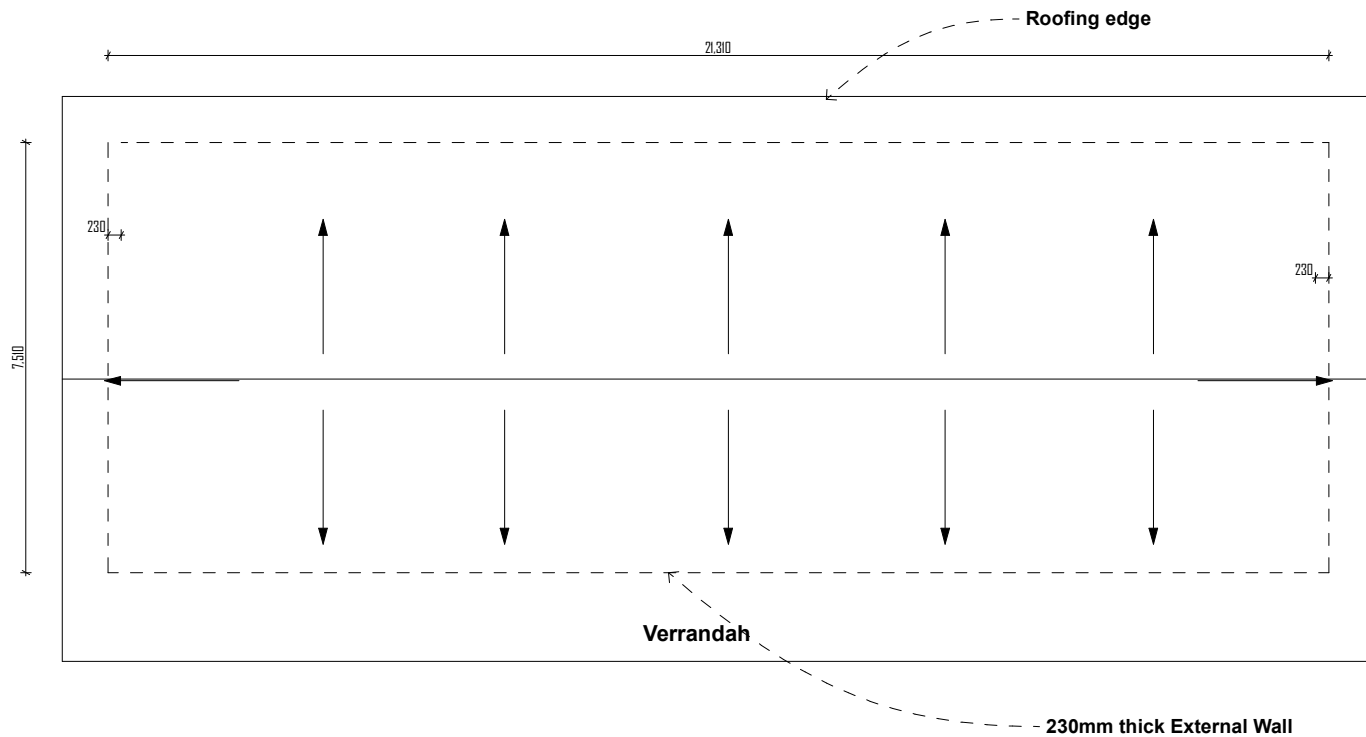
REVISED 1

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
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LOCAL GOVERNMENT

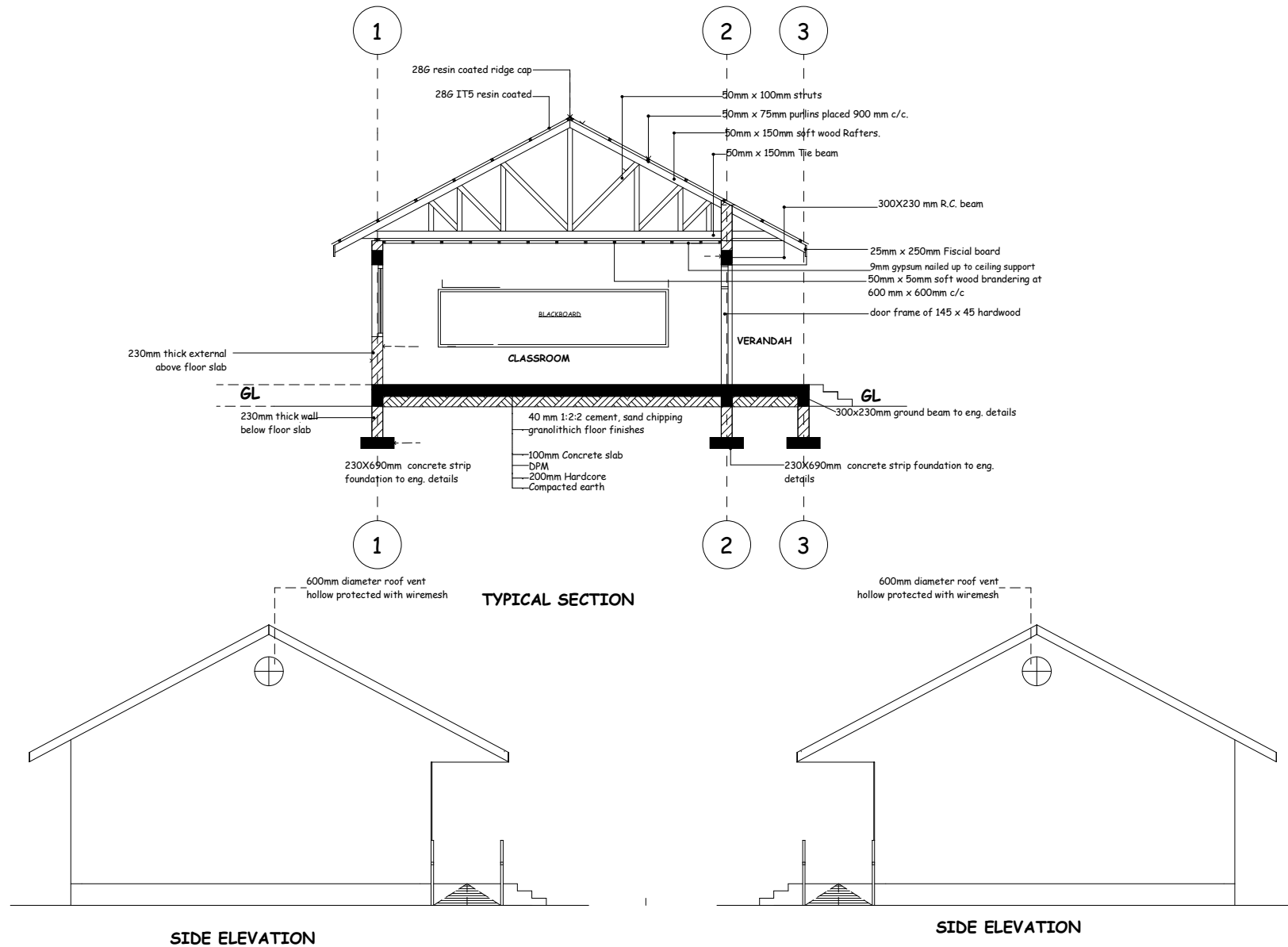
PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS
PROPOSED 2- CLASSROOMS BLOCK WITH OFFICE - GABLED

DRAWING TITLE:
FLOOR PLAN
DRAWING NO: ARC/2CRHO/01

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



REVISED 1



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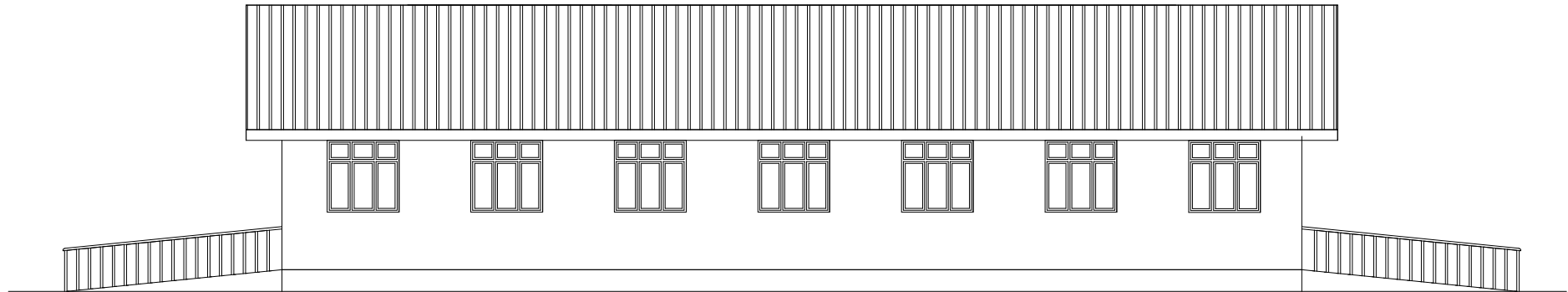
PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS
PROPOSED 2- CLASSROOMS BLOCK WITH OFFICE - GABLED

DRAWING TITLE:

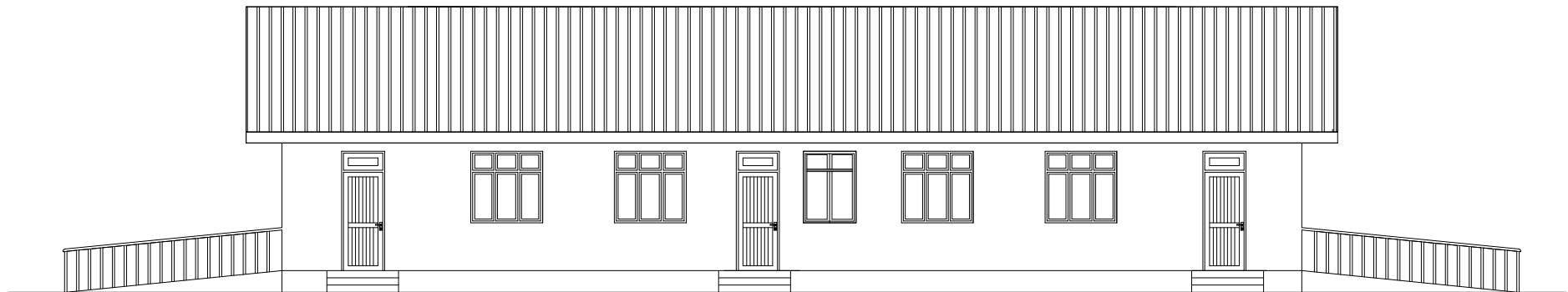
TYPICAL SECTION - SIDE ELEVATIONS

DRAWING NO: ARC/3CR6/03

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



REAR ELEVATION



FRONT ELEVATION

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PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

PROPOSED 2- CLASSROOMS BLOCK WITH OFFICE - GABLED

DRAWING TITLE:

FRONT & REAR ELEVATIONS

DRAWING NO: ARC/2CRHO/04

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

STRUCTURAL DRAWINGS

FOR

TWO CLASSROOM WITH OFFICE BLOCK TYPE A - 2 ROOMS - 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/mm² at 28 days.
4.

Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm².
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:
 - Slabs25mm
 - Beams25mm
 - Columns25mm
 - 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/mm².

PROJECT:
PROVISION OF PHYSICAL
FACILITIES IN PRIMARY SCHOOLS

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SCIENCE AND TECHNOLOGY

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REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT.

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

DRAWING TITLE:
PROPOSED TWO - CLASSROOMS
WITH OFFICE BLOCK

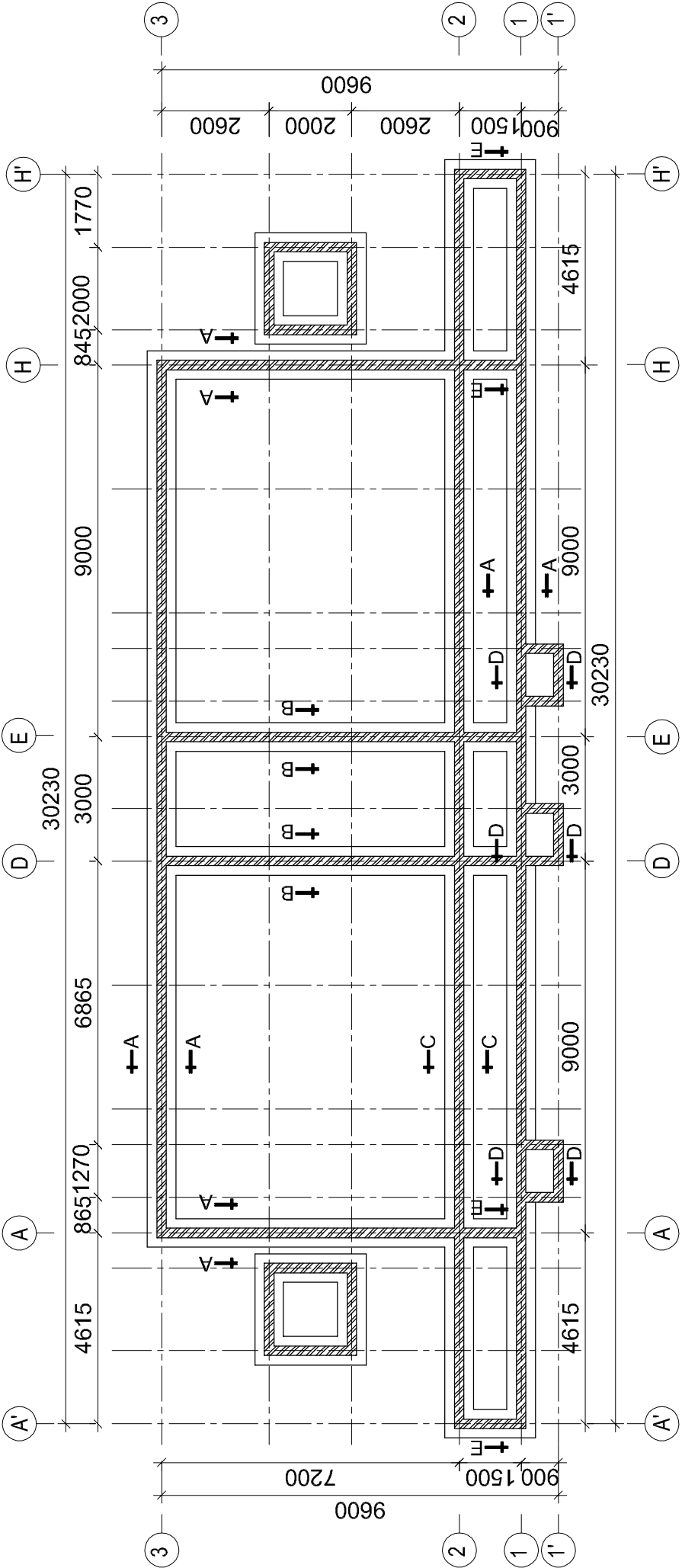
FOUNDATION LAYOUT PLAN

(REVISED - 1)

DRAWING USE:
For Building permit:

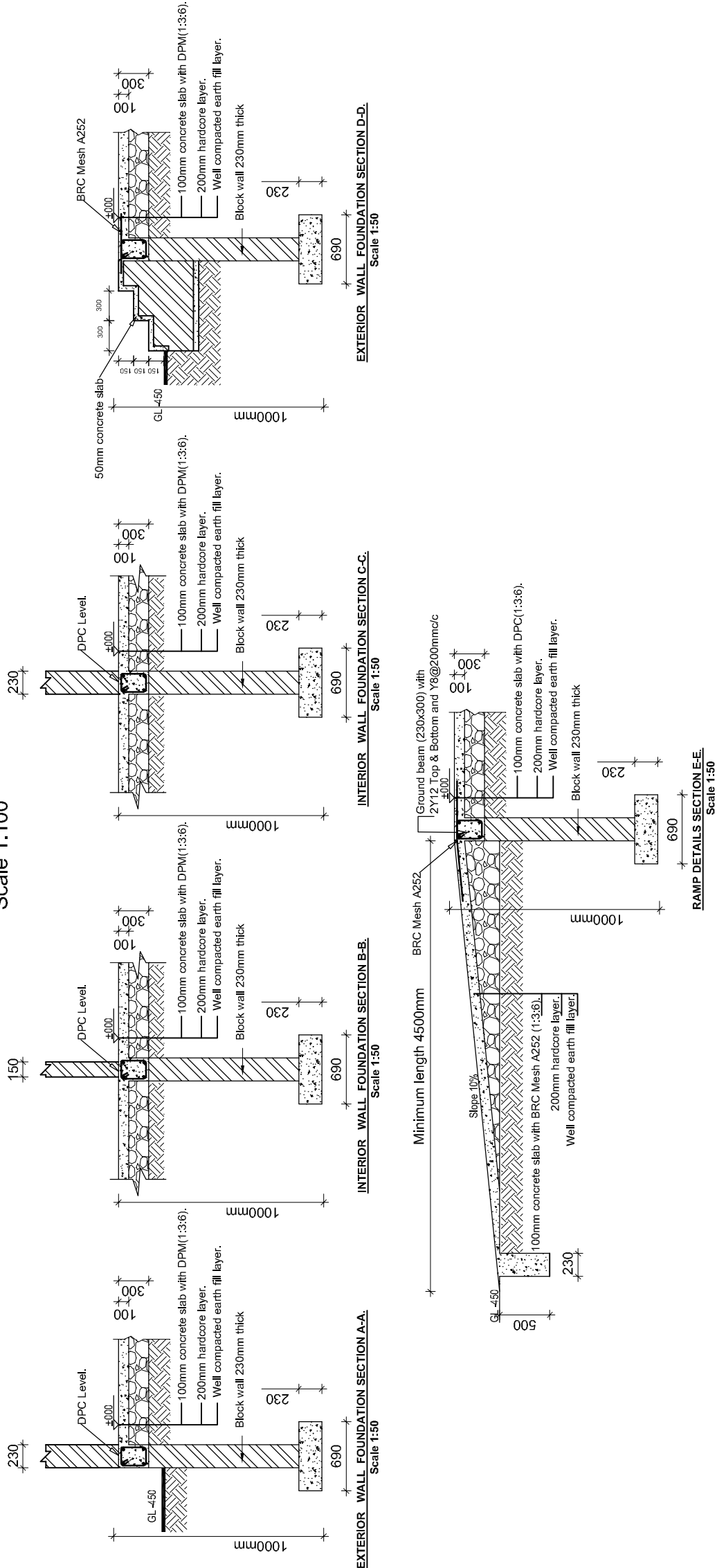
For Construction:

Drawn by: J.M.S
Date: 2022
Drawing No:STR.CR
Sheet: 01/07



FOUNDATION LAYOUT PLAN

Scale 1:100



NOTE:-

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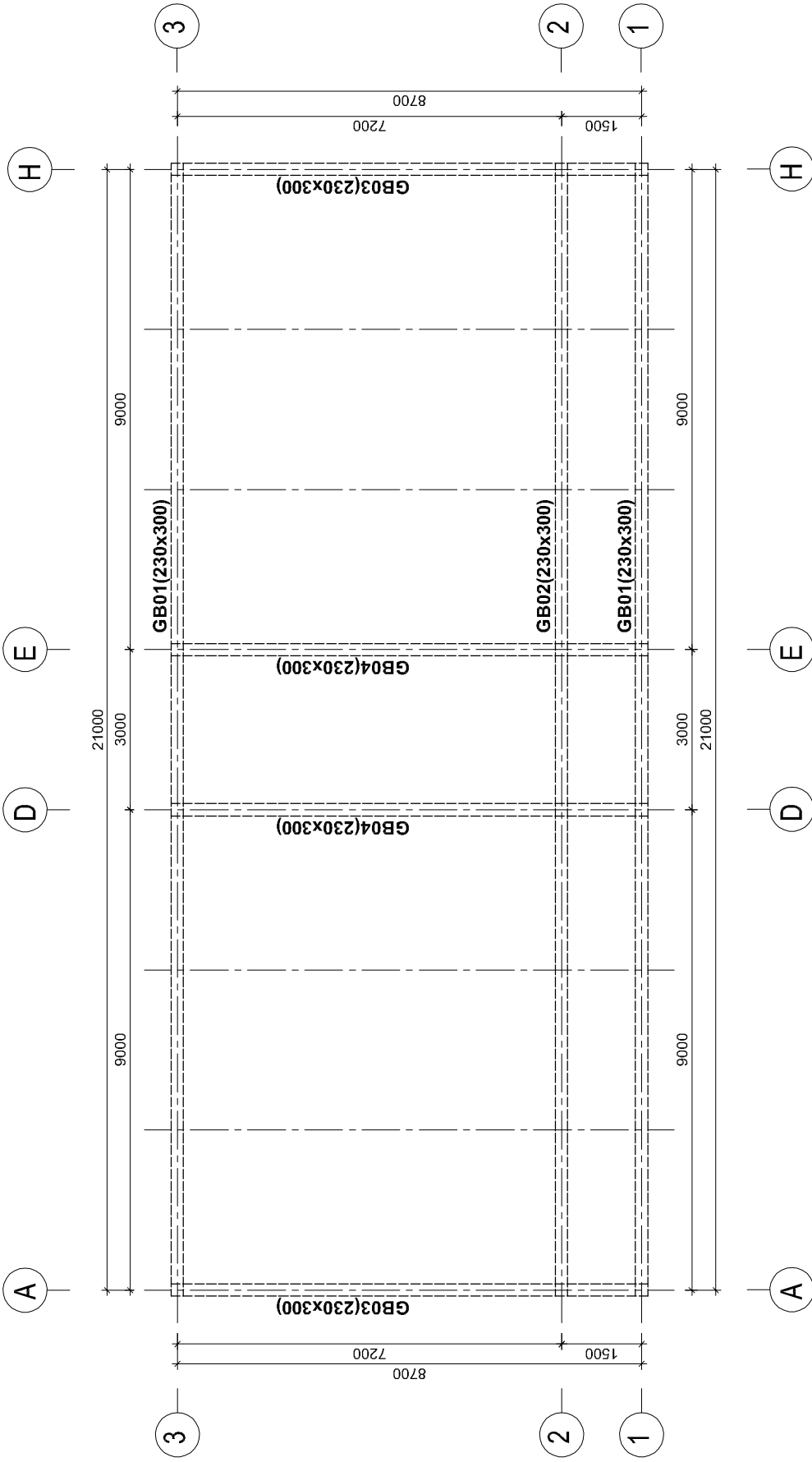
Designed by: Eng. J.M.S
Checked by: Eng. N.T.B
Approved by:

DRAWING TITLE:
PROPOSED TWO - CLASSROOMS
WITH OFFICE BLOCK

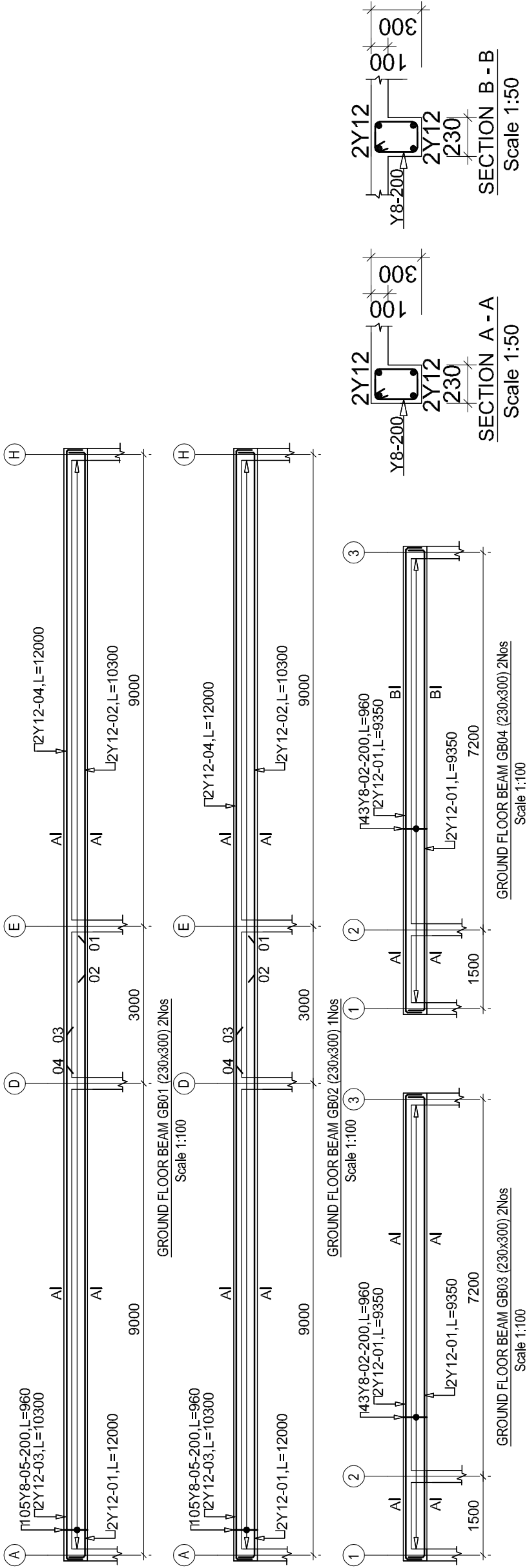
GROUND FLOOR BEAMS LAYOUT
PLAN AND SECTION DETAILS
(REVISED - 1)

DRAWING USE:
For Building permit:
For Construction:

Drawn by: J.M.S
Date: 2022
Drawing No:STR.CR
Scale:
Sheet: 02/07



GROUND FLOOR BEAMS LAYOUT PLAN
Scale 1:100



NOTE:-

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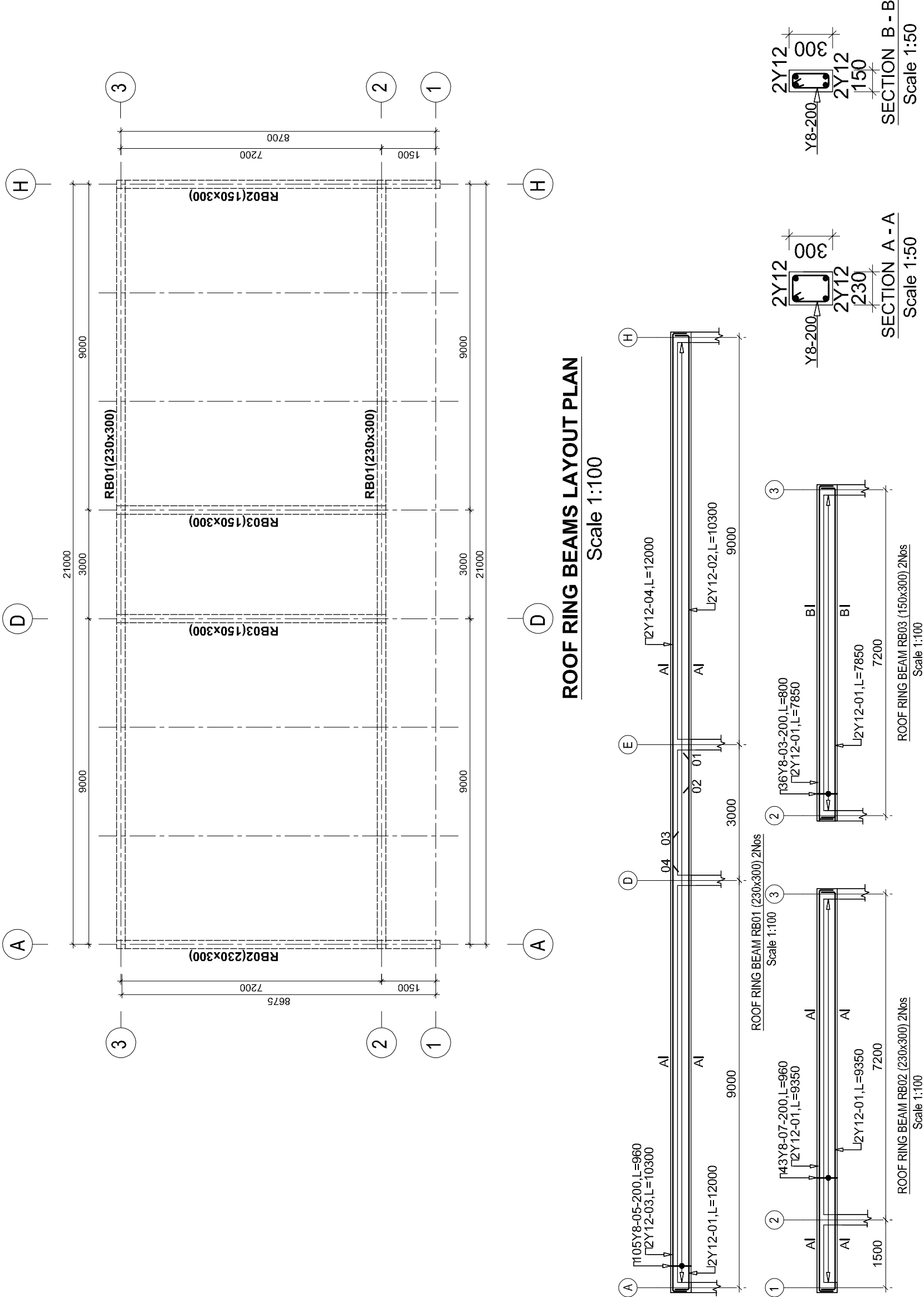
Designed by: Eng. J.M.S
Checked by: Eng. N.T.B
Approved by:

DRAWING TITLE:
PROPOSED TWO - CLASSROOMS
WITH OFFICE 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
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Sheet: 03/07



NOTE:

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

DRAWING TITLE:
PROPOSED TWO - CLASSROOMS
WITH OFFICE BLOCK

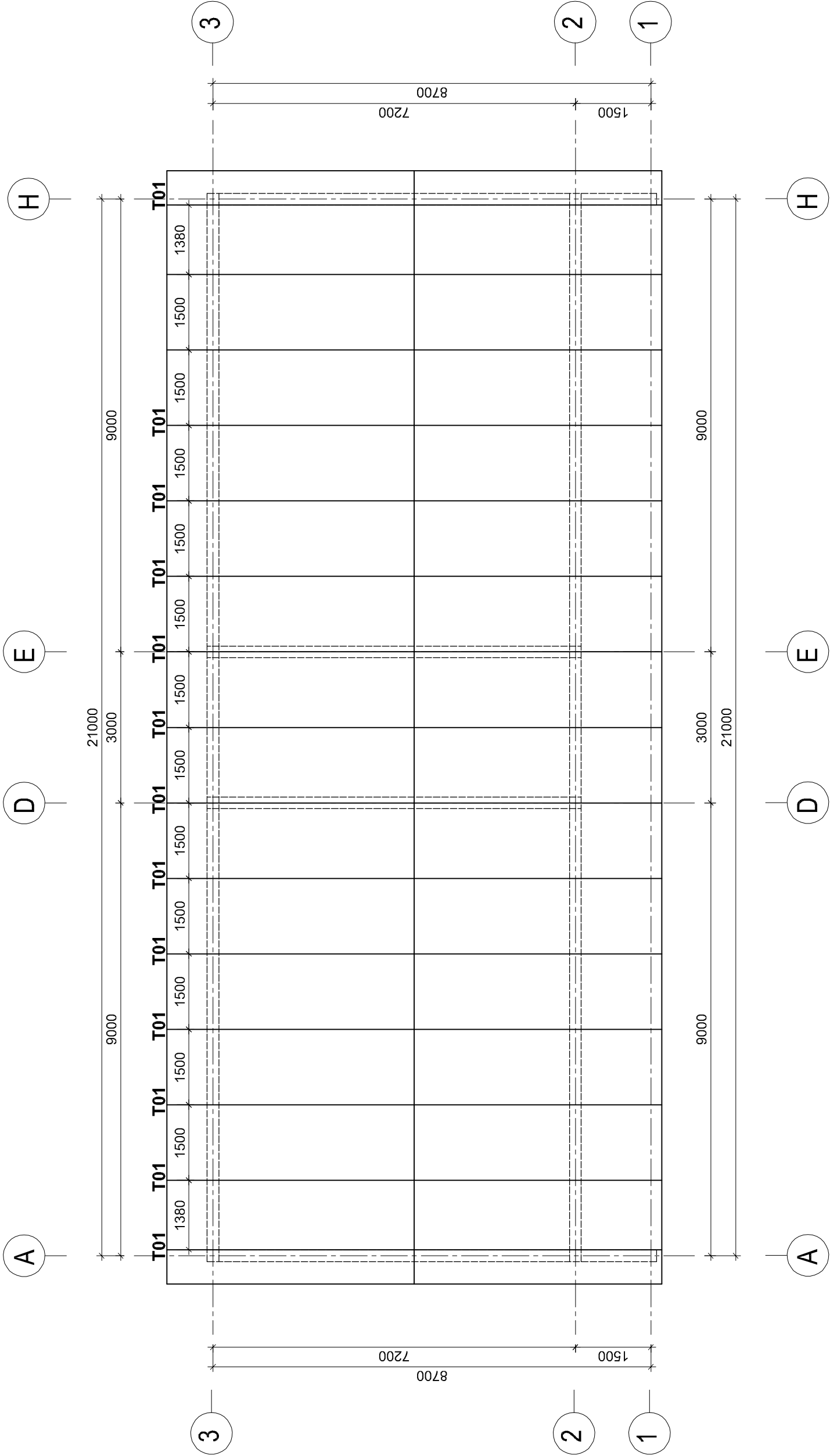
ROOF TRUSS LAYOUT PLAN

(REVISED - 1)

DRAWING USE:
For Building permit:

For Construction:

Drawn by: J.M.S
Date: 2022
Drawing No:\$STR.CR
Scale:
Sheet: 04/07



ROOF TRUSS LAYOUT PLAN
Scale 1:100

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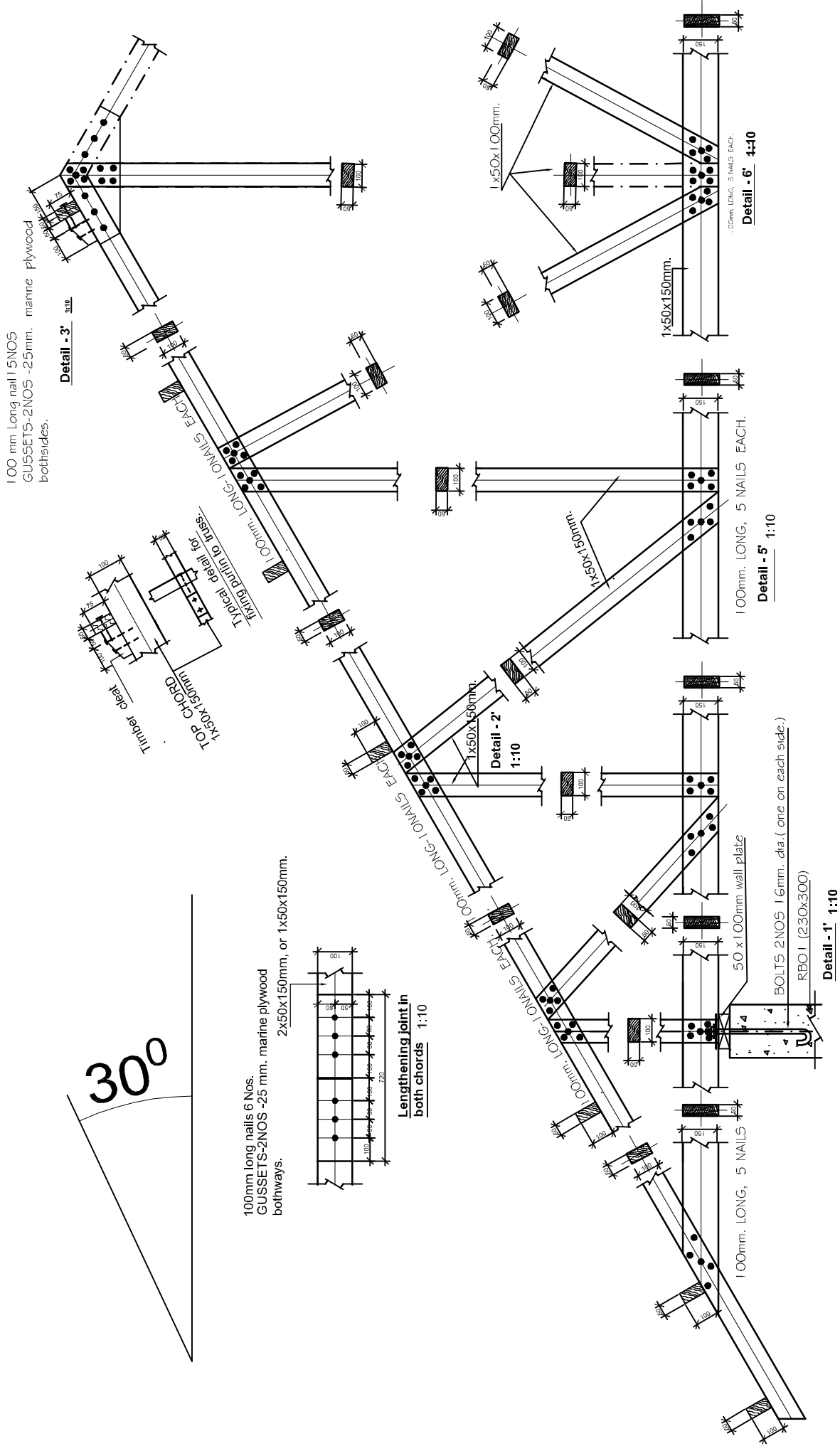
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Checked by: Eng. N.T.B
Approved by:

DRAWING TITLE:
PROPOSED TWO - CLASSROOMS
WITH OFFICE BLOCK

ROOF TRUSS
CONNECTION DETAILS
(REVISED -1)

DRAWING USE:
For Building permit:
For Construction:

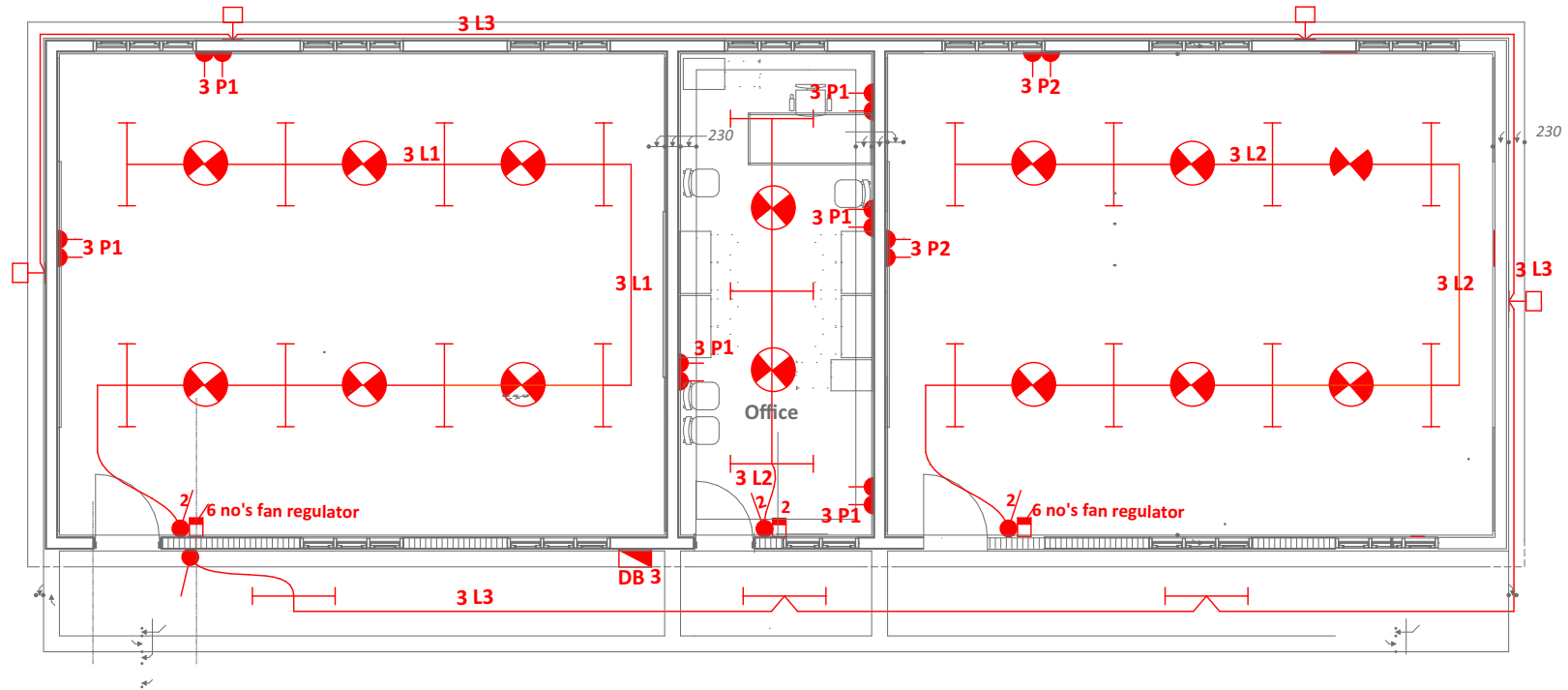
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Date: 2022
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Sheet: 06/07



TYPICAL TRUSS CONNECTIONS DETAIL

[illegible]

ELECTRICAL DRAWINGS



REVISED 1:

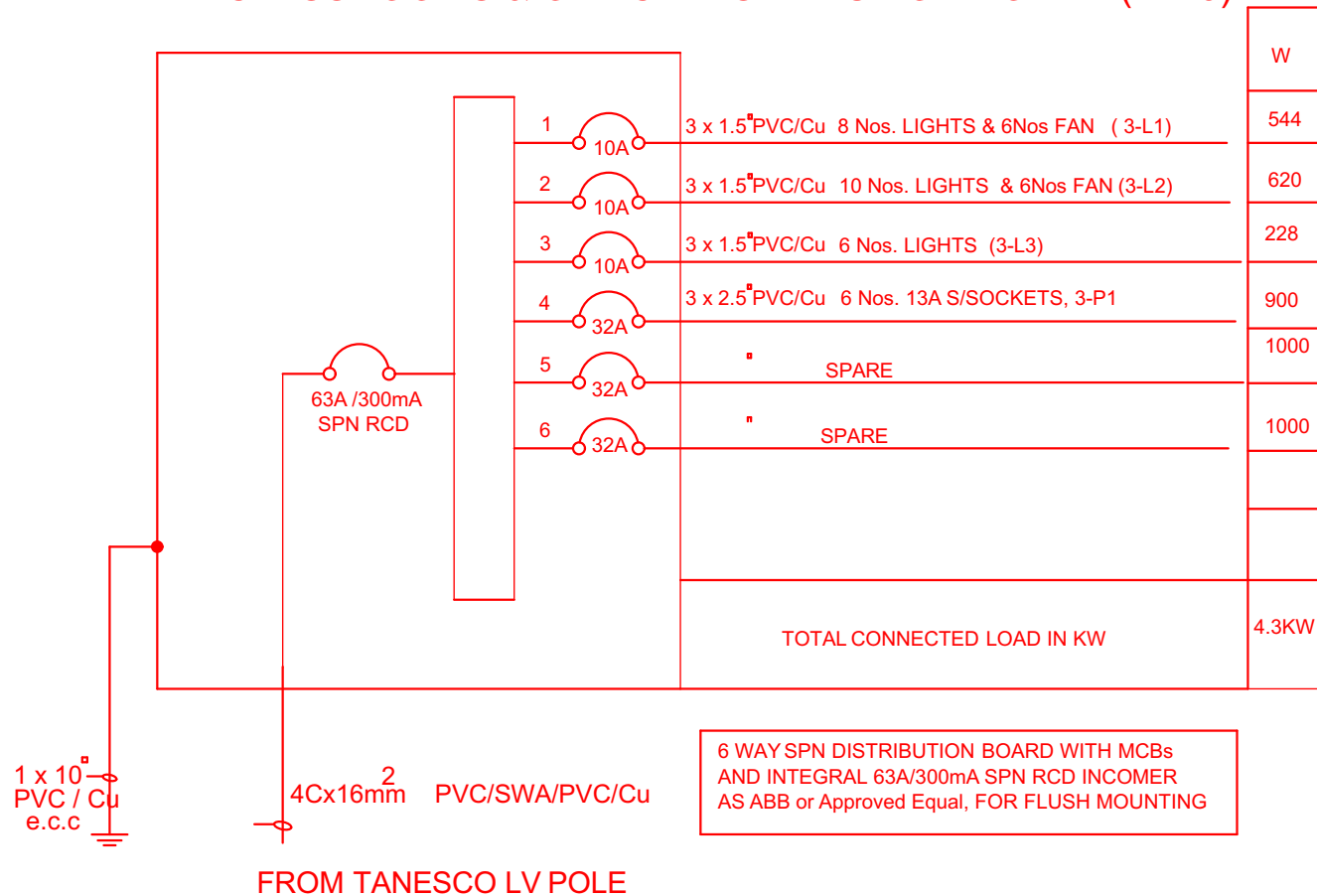
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
PRESIDENT'S OFFICE REGIONAL ADMINISTRATIVE AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

DRAWING TITLE:
TWO CLASSROOM BLOCK
FLOOR LIGHTING & POWER LAYOUT
DRAWING NO: P/EL/CR/03

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022

2CLASSROOMS & OFFICE DISTRIBUTION BOARD (DB-3)



REVISED 1:

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GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY
SCHOOLS

DRAWING TITLE:
TWO CLASSROOM BLOCK
SCHEMATIC LAYOUT
DRAWING NO: P/EL/CR/03

DRAWN BY EEC
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SCALE: NTS
DEC 2022

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 Ceilling
	Ceilling Fan	On Ceilling
	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

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SCHOOLS

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

DRAWN BY EEC
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SCALE: NTS
DEC 2022