

ARCHITECTURAL DRAWINGS

CLASSROOM BLOCK

ARCHITECTURAL DRAWING

2- Classroom Block with Office-Hipped

JUNE 2023

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT

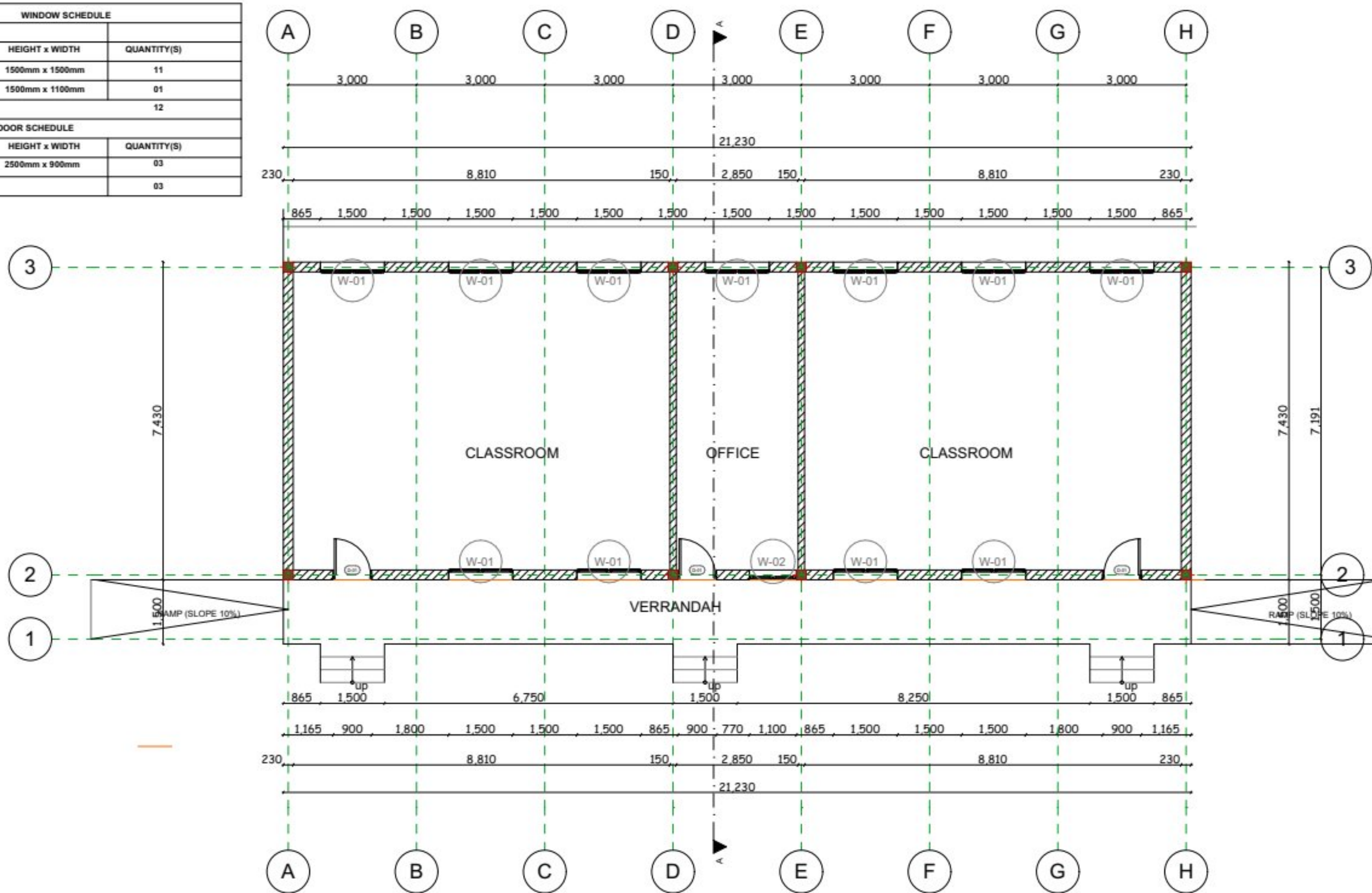
PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS
FOR
SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM

DRAWING TITLE: 2- CLASSROOMS BLOCK WITH
OFFICE GABLE-HIPPED

DRAWING NO: ARC/3CRHO/00

Date	June, 2023
Drawn by	IAS
Checked by	JR
Scale	To fit

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



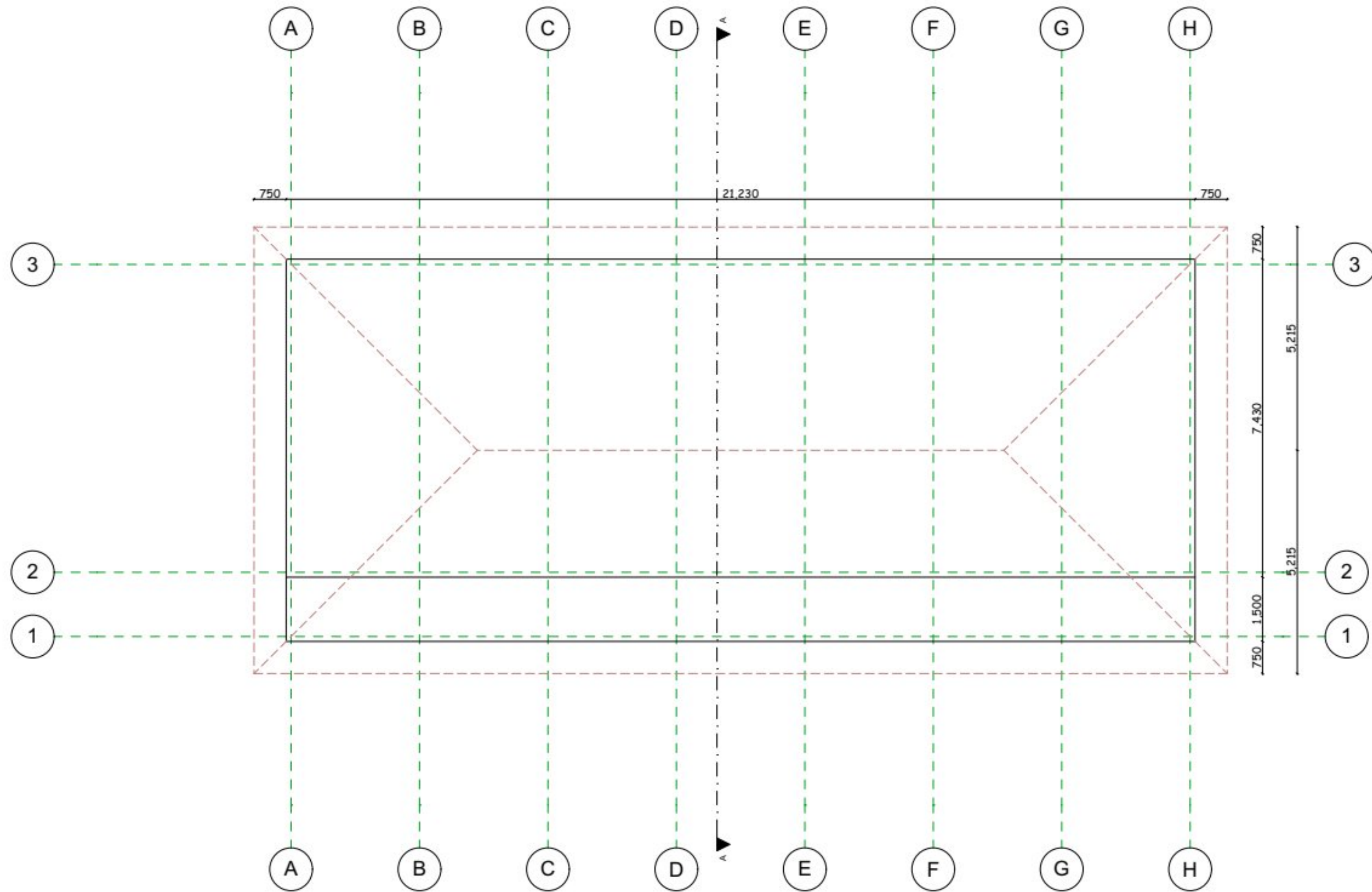
TOTAL FLOOR AREA = 189.6 SQM

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
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PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM

DRAWING TITLE: 2- CLASSROOMS BLOCK WITH OFFICE HIPPED FLOOR PLAN AREA PRONE TO EARTH QUAKE
 DRAWING NO: ARC/2CRHO/01

Date	June, 2023
Drawn by	IAS
Checked by	JR
Scale	To fit

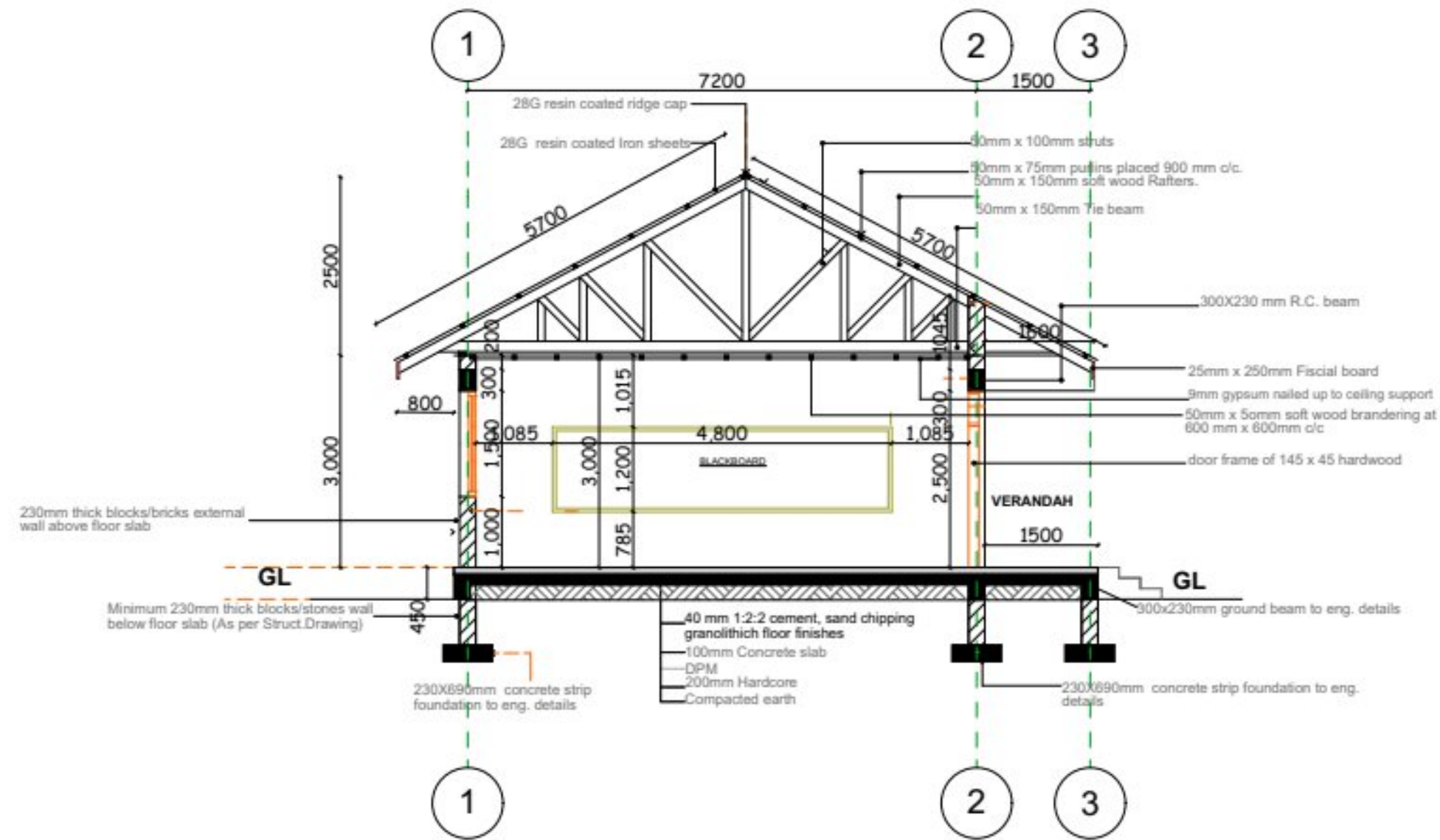


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 LOCAL GOVERNMENT

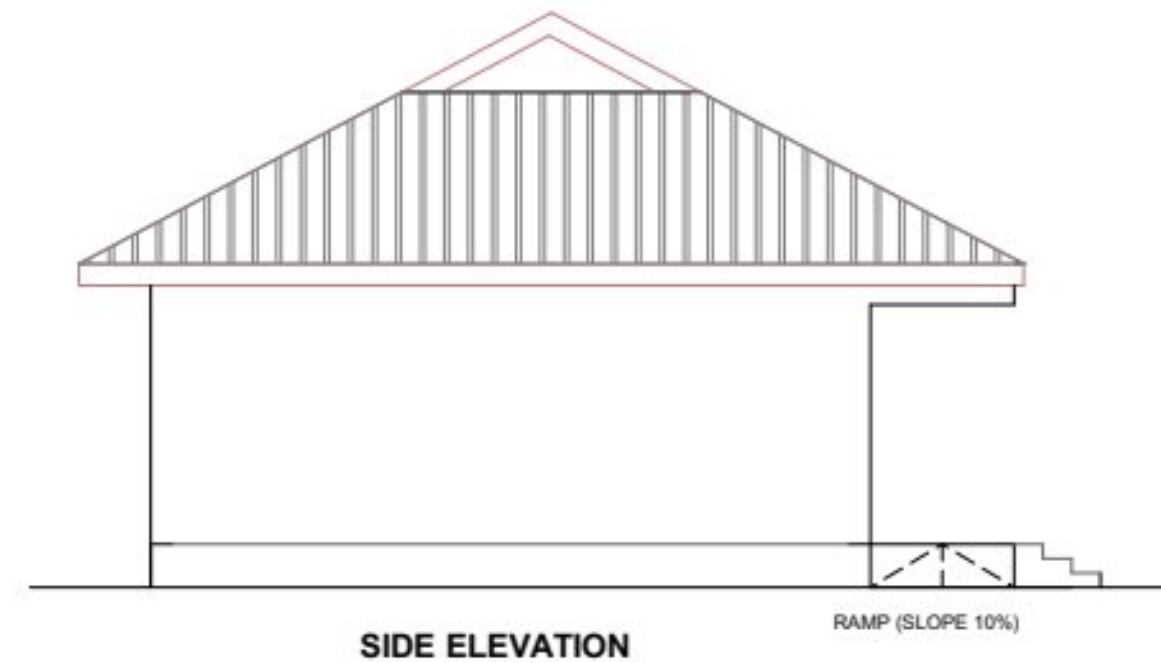
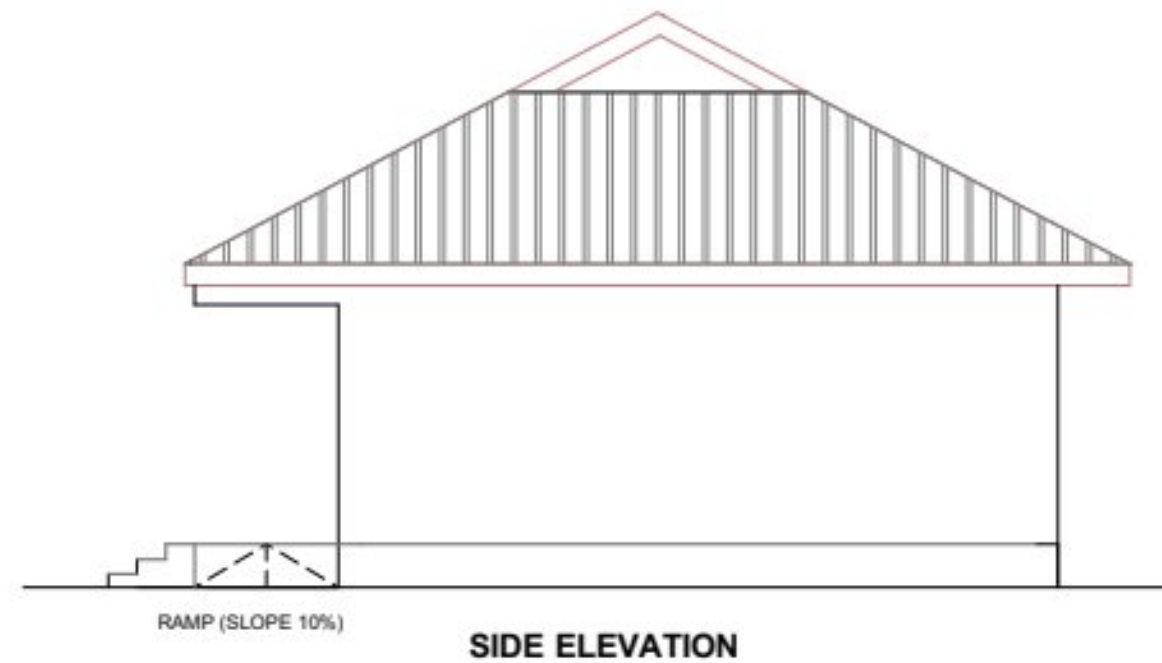
PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS
 FOR
 SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM

DRAWING TITLE: 2- CLASSROOMS BLOCK WITH
 OFFICE HIPPED
 ROOF PLAN
 AREA PRONE TO EARTH QUAKE
 DRAWING NO: ARC/2CRHO/02

Date	June, 2023
Drawn by	IAS
Checked by	JR
Scale	To fit



TYPICAL SECTION

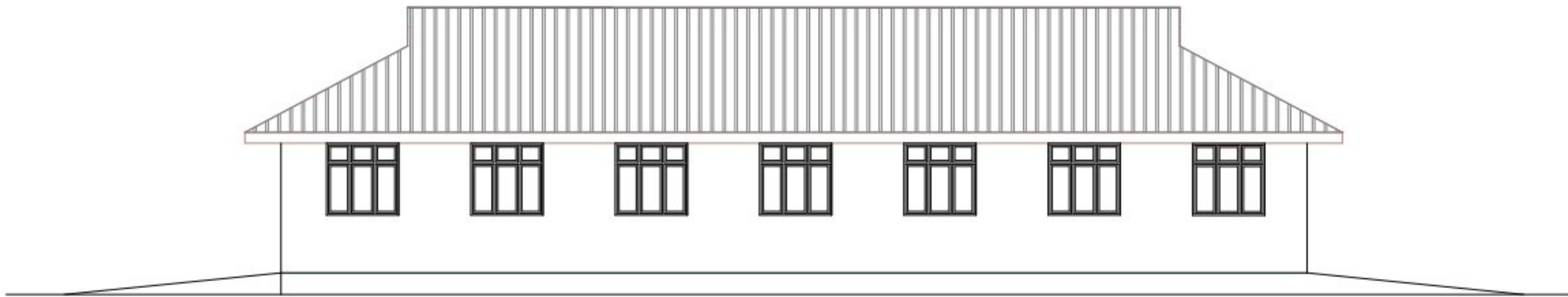


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PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM

DRAWING TITLE: 2-CLASSROOMS WITH OFFICE BLOCK HIPPED
TYPICAL SECTION - SIDE ELEVATIONS
 AREA PRONE TO EARTH QUAKE
 DRAWING NO: ARC/3CRHO/03

Date	June, 2023
Drawn by	IAS
Checked by	JR
Scale	To fit



REAR ELEVATION



FRONT ELEVATION

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
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 LOCAL GOVERNMENT**

**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS
 FOR
 SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM**

**DRAWING TITLE: 2- CLASSROOMS BLOCK
 WITH OFFICE HIPPED
 FRONT & REAR ELEVATIONS
 AREA PRONE TO EARTH QUAKE**
 DRAWING NO: ARC/2CRHO/04

Date	June, 2023
Drawn by	IAS
Checked by	JR
Scale	To fit

STRUCTURAL DRAWINGS

STRUCTURAL DRAWINGS

FOR

**TWO CLASSROOM WITH OFFICE BLOCK TYPE A - 2 ROOMS - HIPPED
AREA PRONE TO EARTHQUAKE**

NOTE:

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- 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 $f_y = 460N/mm^2$.
- 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".
- Clear cover for reinforcement shall be as follows:
 - Slabs25mm
 - Beams25mm
 - Columns25mm
 - Footings50mm
- All concrete work to be done in one operation.
- All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer. Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
- Minimum Compressive Strength for Blocks shall be 3.5N/mm².

PROJECT:
 PROPOSED STANDARD DRAWINGS
 FOR SECONDARY EDUCATION
 QUALITY IMPROVEMENT PROGRAM

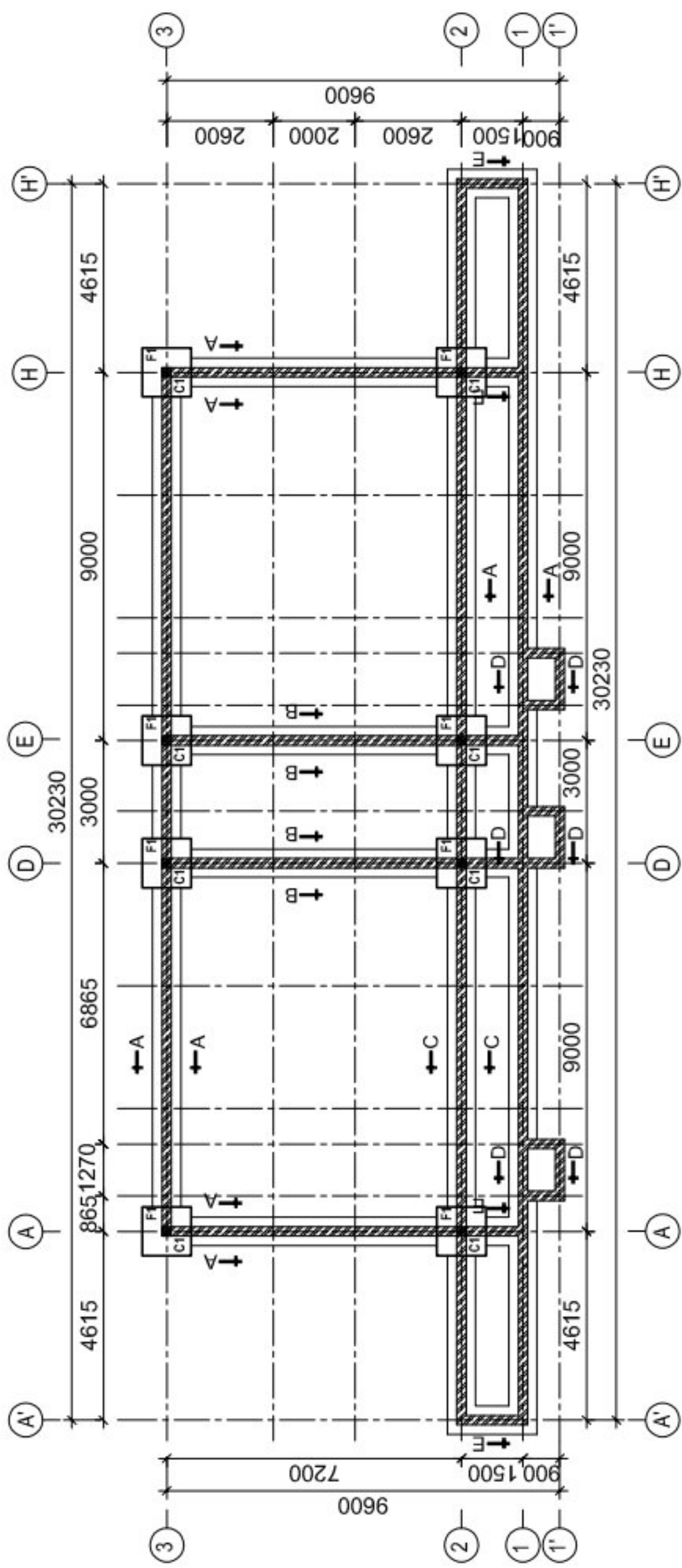
MINISTRY OF EDUCATION,
 SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
 PRESIDENT'S OFFICE
 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.

Designed by: Eng. J.M.S
 Checked by: Eng. R.A.M
 Approved by:

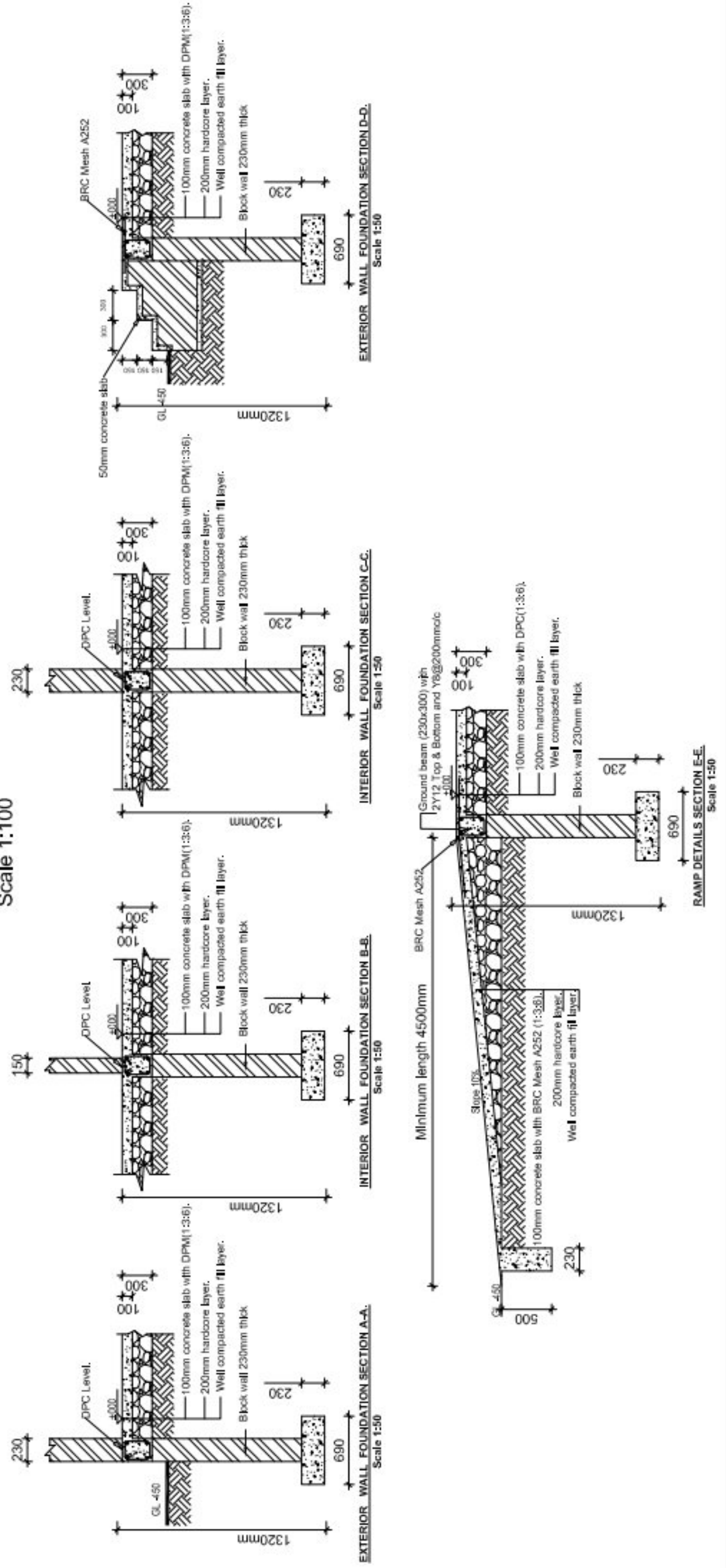
DRAWING TITLE:
 PROPOSED TWO - CLASSROOMS
 WITH OFFICE BLOCK
 FOUNDATION LAYOUT PLAN AND
 SECTION DETAILS

(REVISED - 1)
DRAWING USE:
 For Building permit:
 For Construction:

Drawn by: J.M.S
 Date: June 2023
 Drawing No:STR.CR
 Scale:
 Sheet: 01/09



FOUNDATION LAYOUT PLAN
 Scale 1:100



NOTE:

- All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
- All structural engineering drawings should be read in conjunction with relevant architectural drawings.
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PROJECT:
 PROPOSED STANDARD DRAWINGS
 FOR SECONDARY EDUCATION
 QUALITY IMPROVEMENT PROGRAM

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. R.A.M
 Approved by:

DRAWING TITLE:
 PROPOSED TWO - CLASSROOMS
 WITH OFFICE BLOCK

FOUNDATION SECTION DETAILS
 (STONE WALLS)

(REVISED - 1)

DRAWING USE:

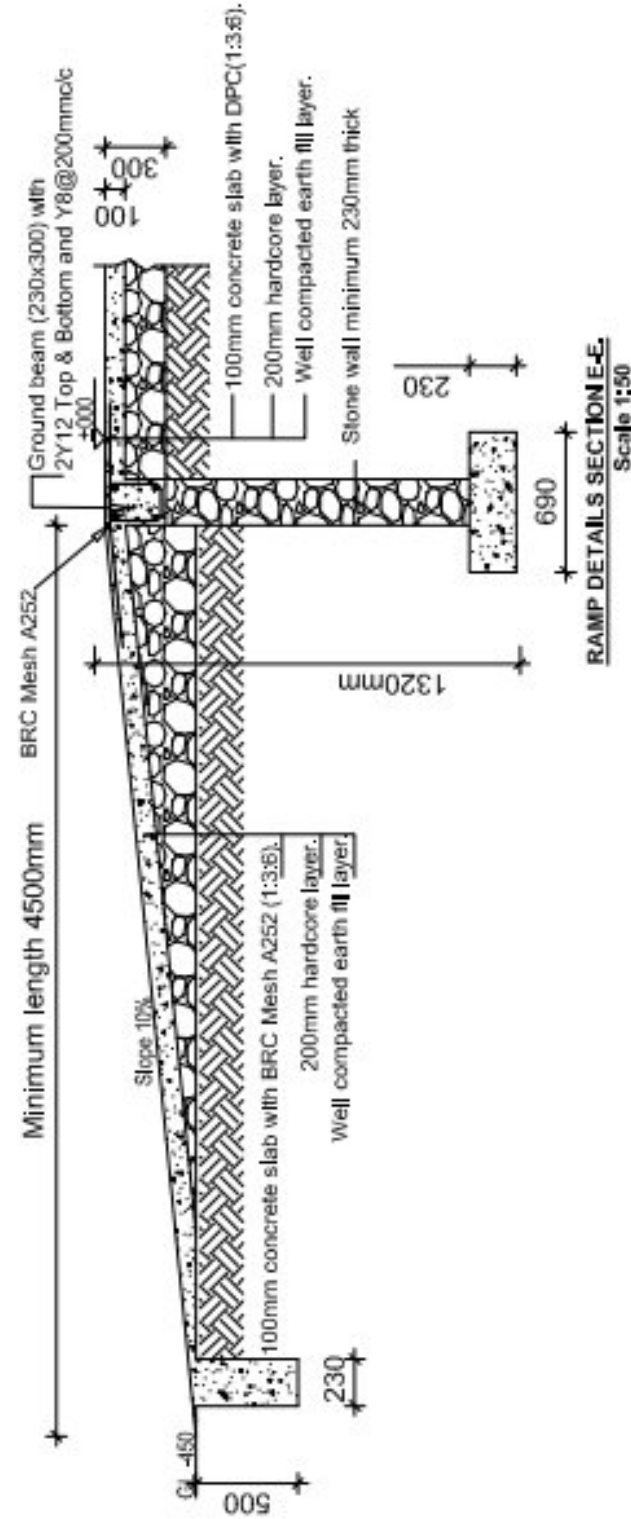
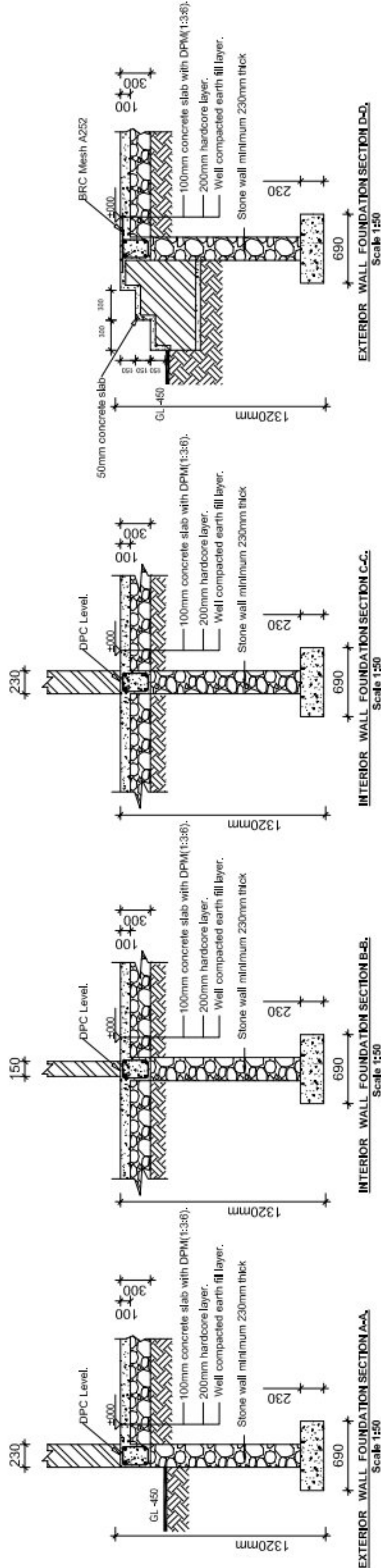
For Building permit:

For Construction:

Drawn by: J.M.S

Date: June 2023 Scale:

Drawing No:STR.CR Sheet: 02/09



NOTE:

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PROJECT:
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 QUALITY IMPROVEMENT PROGRAM

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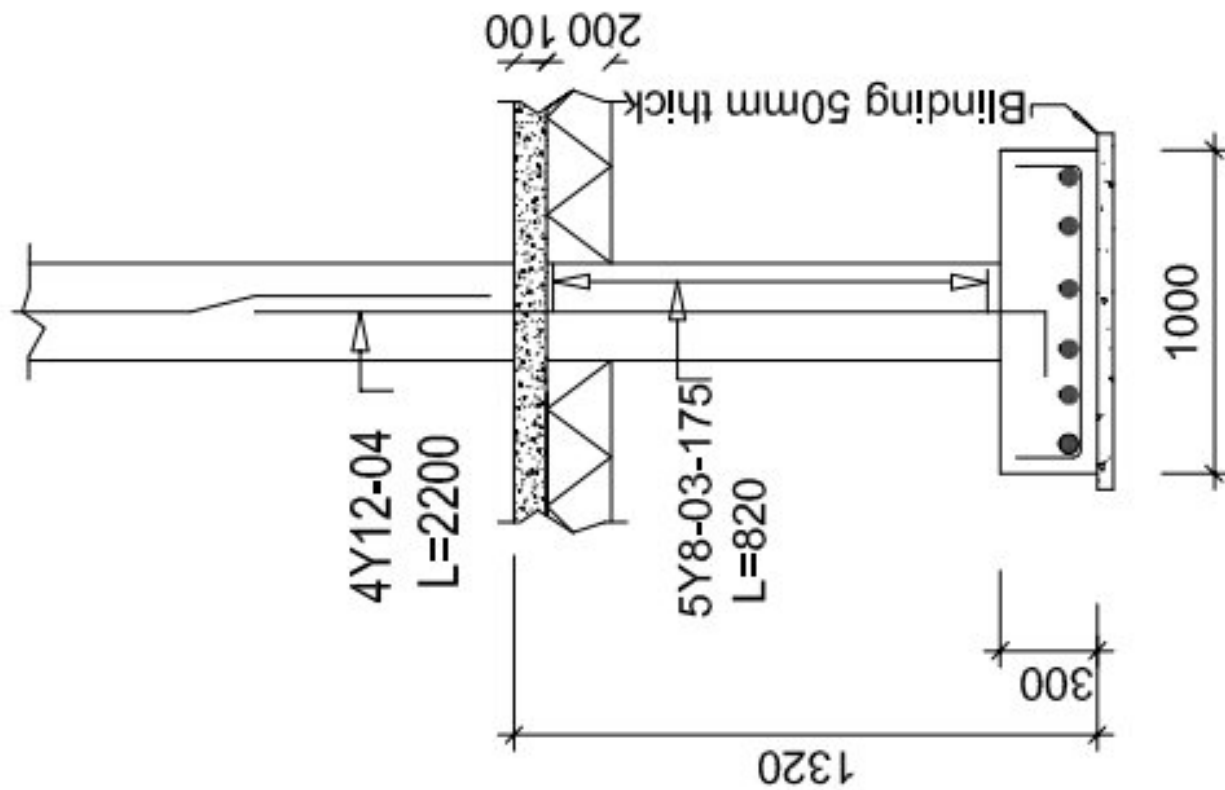
Designed by: Eng. J.M.S
 Checked by: Eng. R.A.M
 Approved by:

DRAWING TITLE:

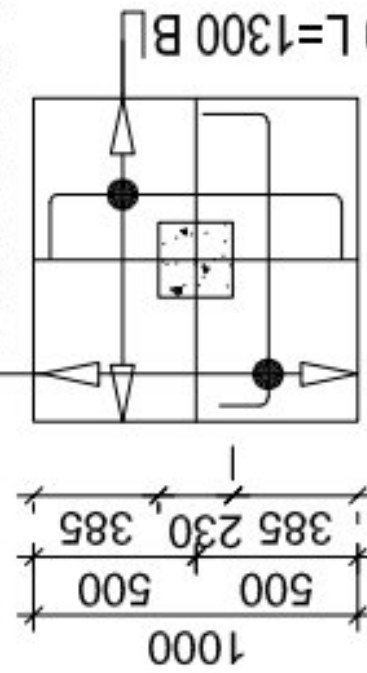
PROPOSED TWO - CLASSROOMS
 WITH OFFICE BLOCK
 COLUMN FOOTINGS AND
 COLUMNS DETAILS
 (REVISED - 1)

DRAWING USE:
 For Building permit:
 For Construction:

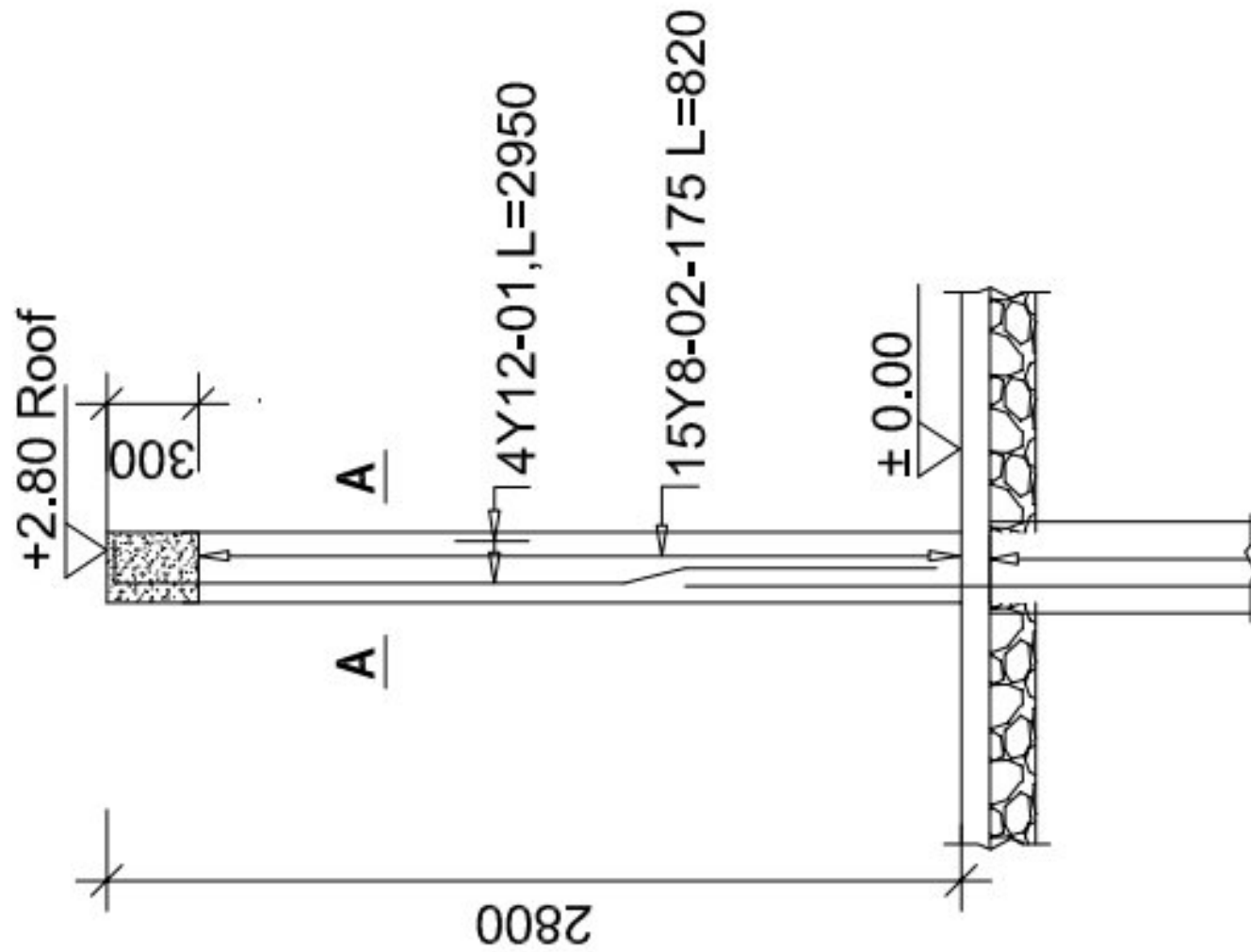
Drawn by: J.M.S
 Date: June 2023
 Drawing No: STR.CR
 Sheet: 03/09



FOOTING F1 (1000x1000x300) 8Nos.

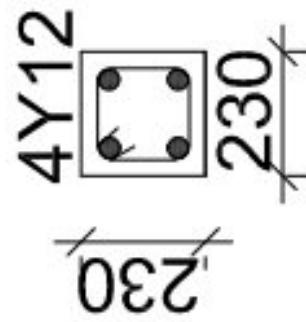


Scale 1:50



COLUMN C1(230 x 230), 8Nos

Scale 1:100



Section A - A
Scale 1:50

NOTE:

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 PROPOSED STANDARD DRAWINGS
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 QUALITY IMPROVEMENT PROGRAM

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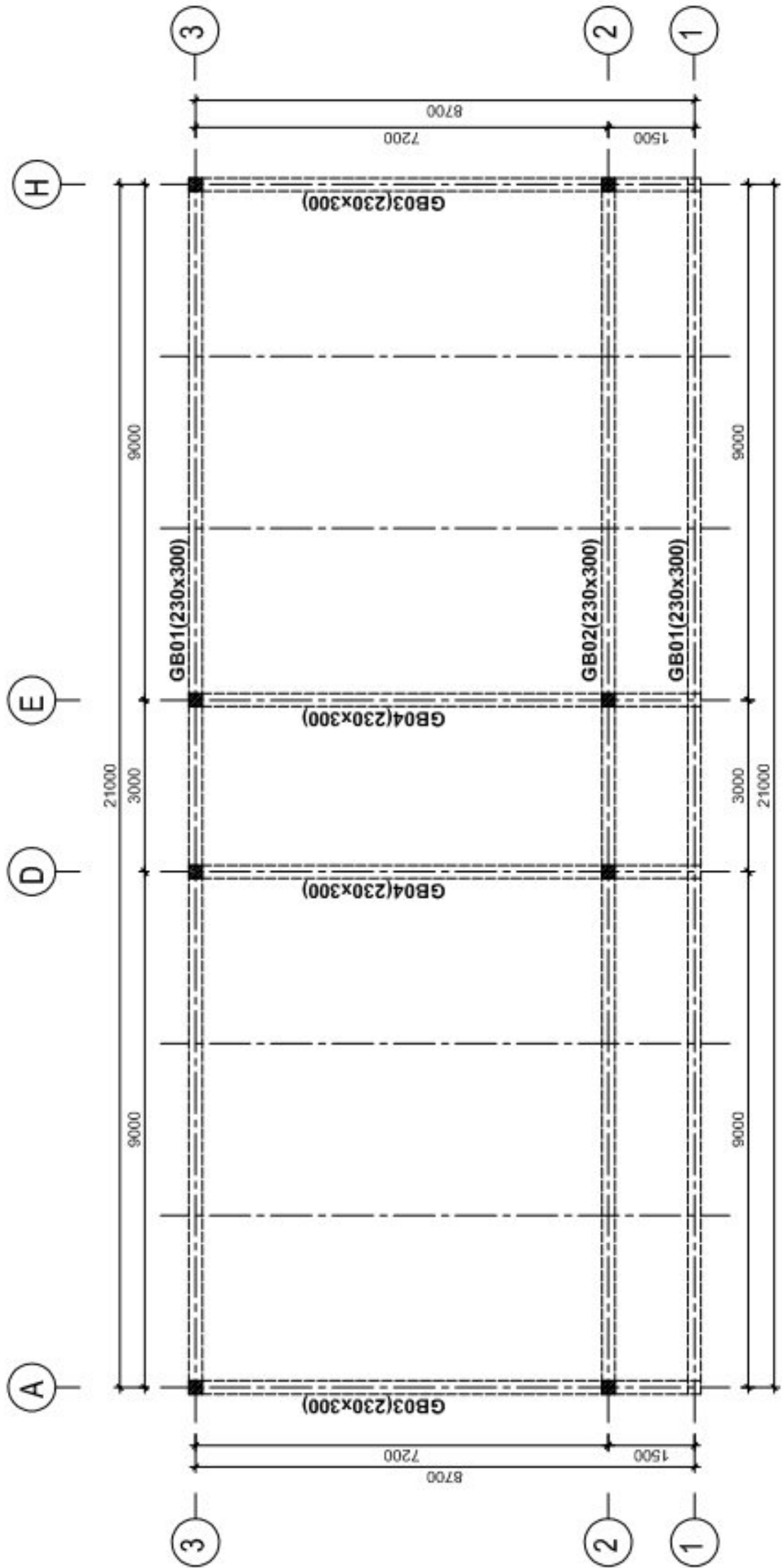
Designed by: Eng. J.M.S
 Checked by: Eng. R.A.M
 Approved by:

DRAWING TITLE:
 PROPOSED TWO - CLASSROOMS
 WITH OFFICE BLOCK

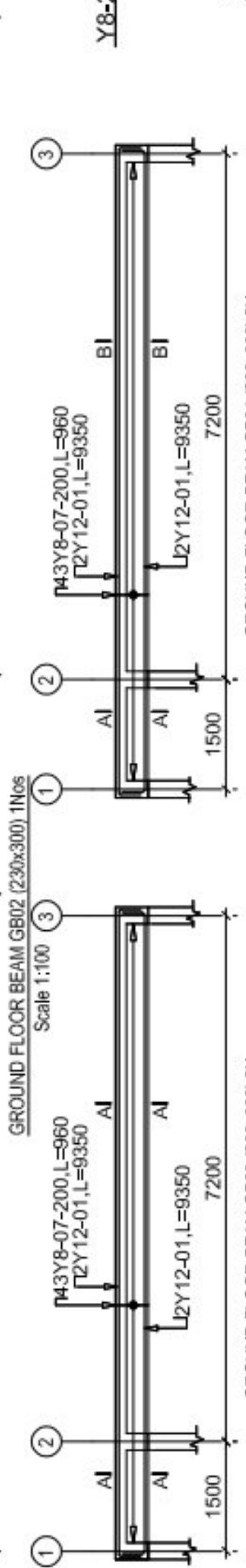
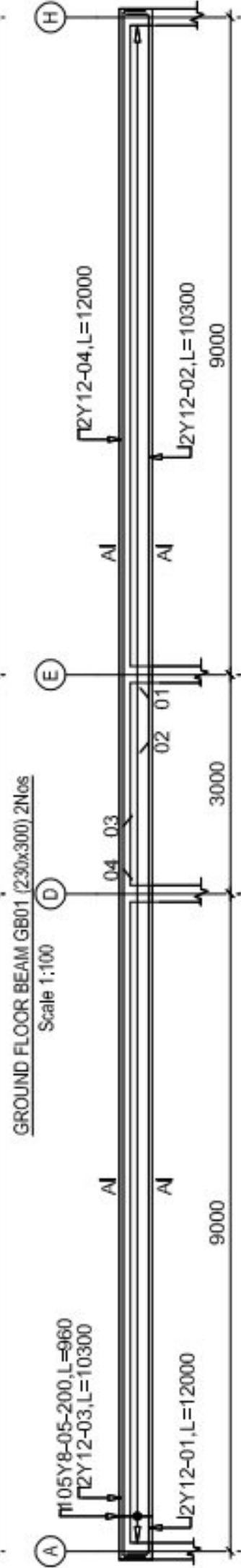
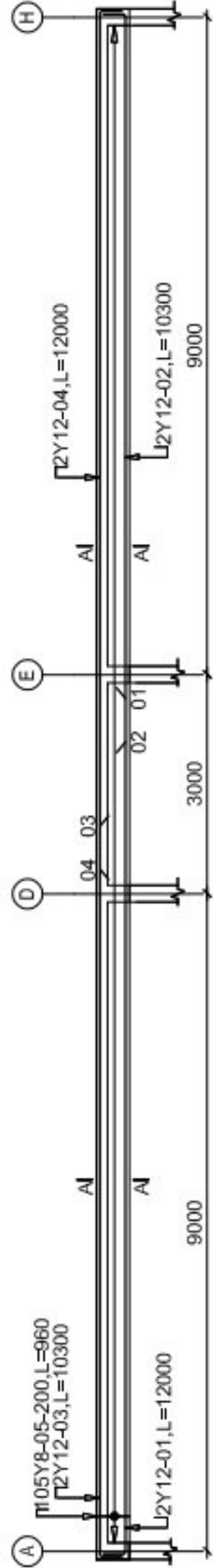
GROUND FLOOR BEAMS LAYOUT
 PLAN AND SECTION DETAILS
 (REVISED - 1)

DRAWING USE:
 For Building permit:
 For Construction:

Drawn by: J.M.S
 Date: June 2023
 Drawing No: STR.CR
 Sheet: 04/09



GROUND FLOOR BEAMS LAYOUT PLAN
 Scale 1:100



SECTION A - A
 Scale 1:50

SECTION B - B
 Scale 1:50

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PROJECT:
 PROPOSED STANDARD DRAWINGS
 FOR SECONDARY EDUCATION
 QUALITY IMPROVEMENT PROGRAM

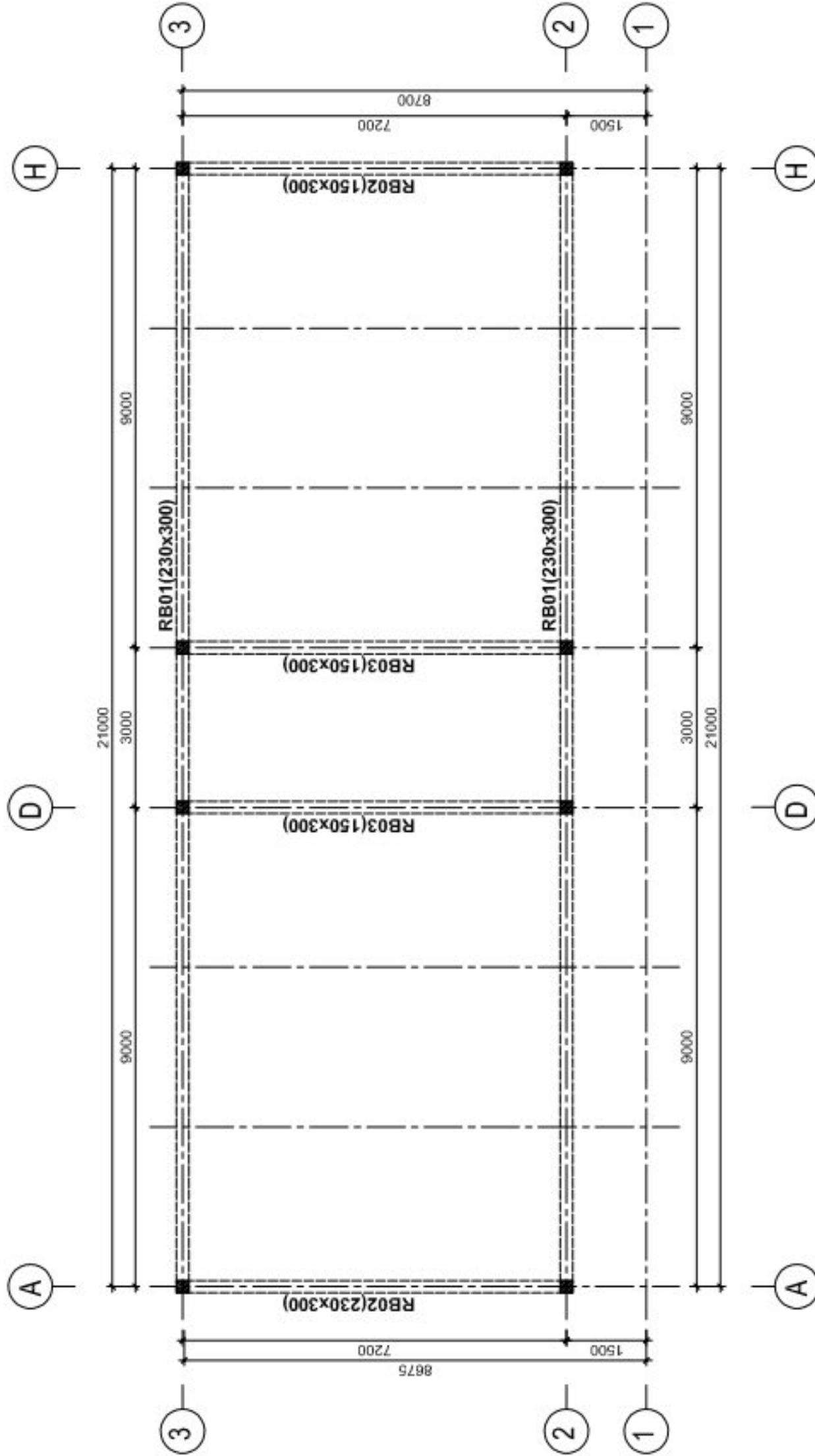
MINISTRY OF EDUCATION,
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IN COLLABORATION WITH
 PRESIDENT'S OFFICE
 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.

Designed by: Eng. J.M.S
 Checked by: Eng. R.A.M
 Approved by:

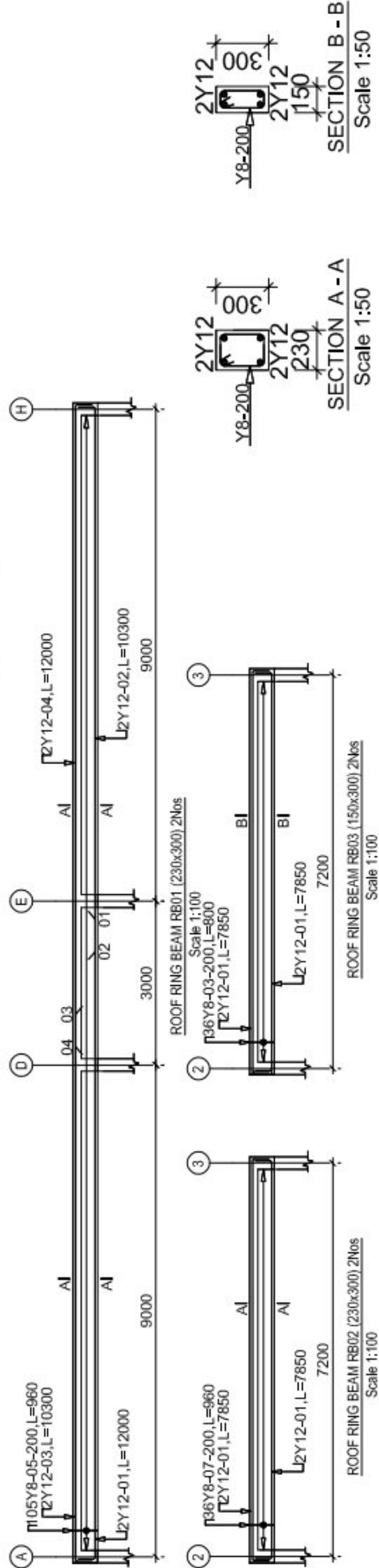
DRAWING TITLE:
 PROPOSED TWO - CLASSROOMS
 WITH OFFICE BLOCK
 ROOF RING BEAMS LAYOUT PLAN
 AND SECTION DETAILS
 (REVISED - 1)

DRAWING USE:
 For Building permits
 For Construction:

Drawn by: J.M.S
 Date: June 2023
 Drawing No.: STR.CR
 Scale:
 Sheet: 05/09



ROOF RING BEAMS LAYOUT PLAN
 Scale 1:100



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 PROPOSED STANDARD DRAWINGS
 FOR SECONDARY EDUCATION
 QUALITY IMPROVEMENT PROGRAM

MINISTRY OF EDUCATION,
 SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH

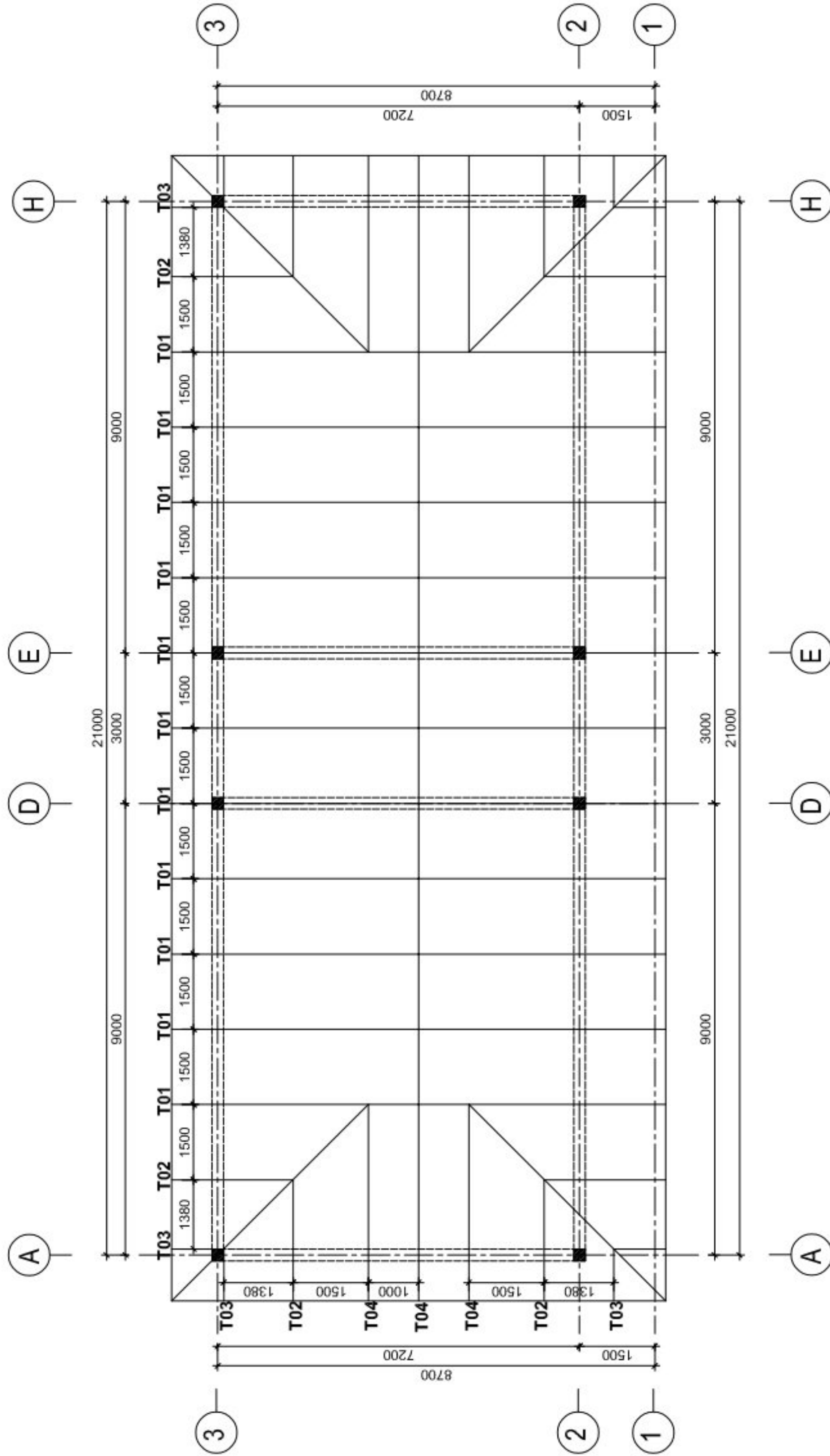
PRESIDENT'S OFFICE
 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.

Designed by: Eng. J.M.S
 Checked by: Eng. R.A.M
 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: June 2023
 Drawing No: STR.CR
 Scale:
 Sheet: 06/09



ROOF TRUSS LAYOUT PLAN
 Scale 1:100

NOTE:

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 QUALITY IMPROVEMENT PROGRAM

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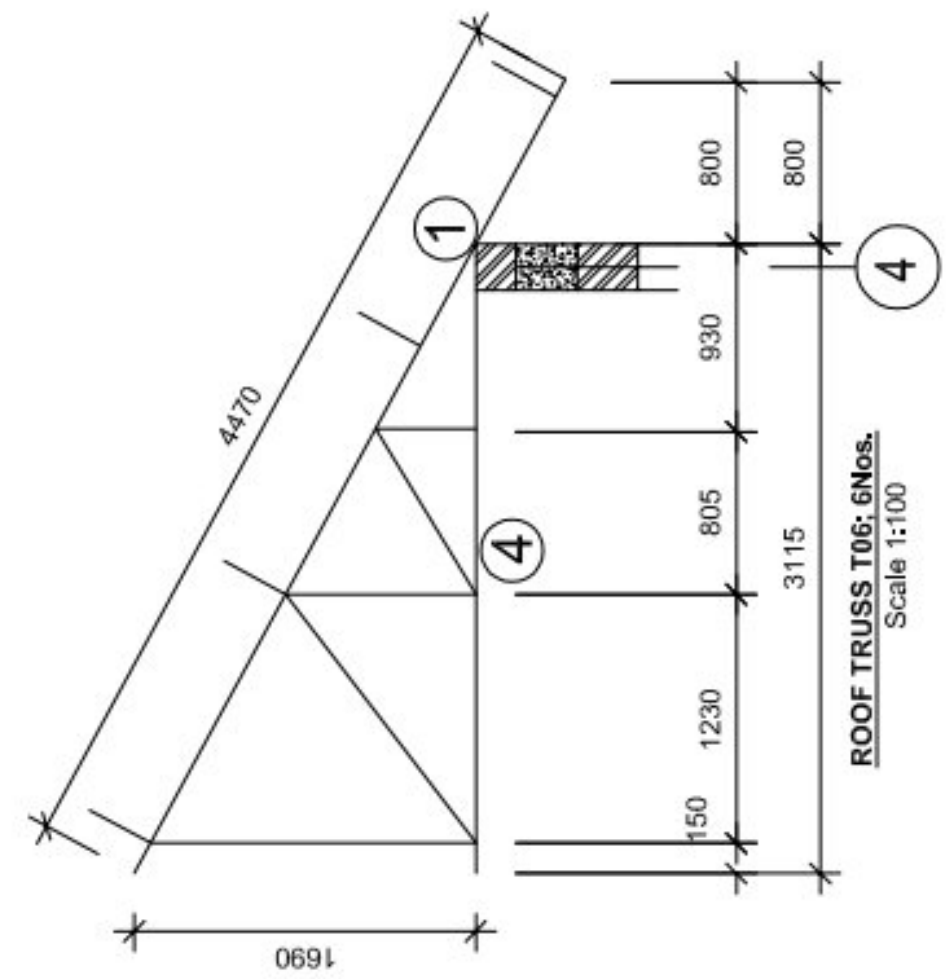
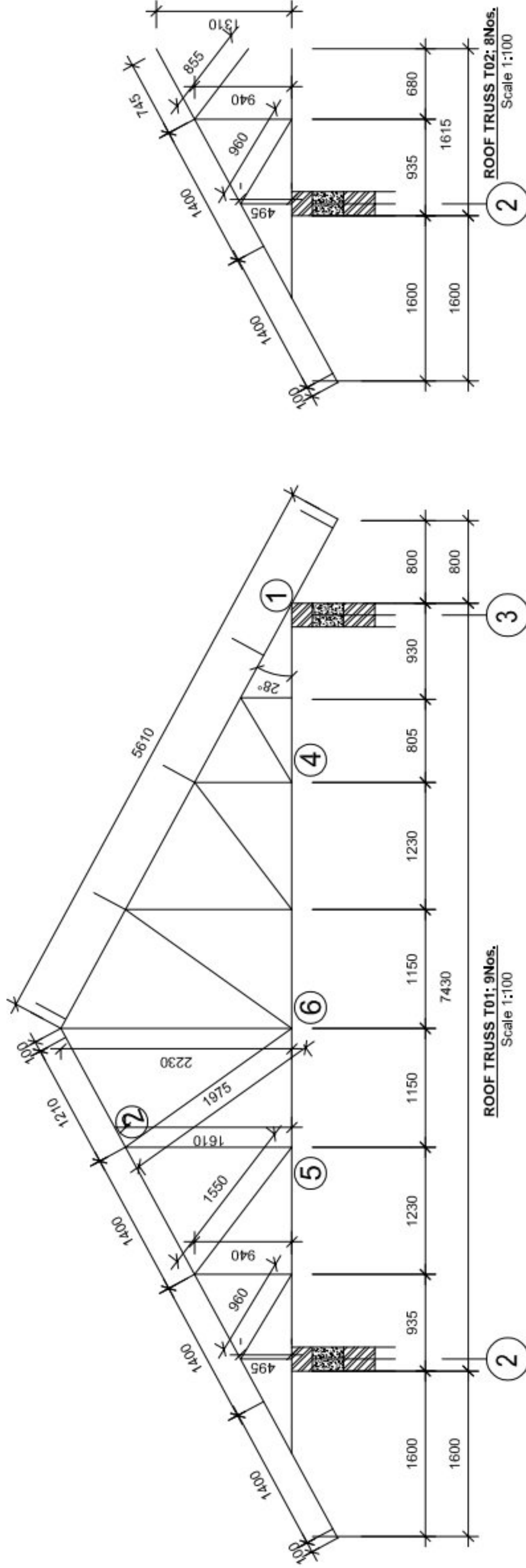
PRESIDENT'S OFFICE
 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.

Designed by: Eng. J.M.S
 Checked by: Eng. R.A.M
 Approved by:

DRAWING TITLE:
 PROPOSED TWO - CLASSROOMS
 WITH OFFICE BLOCK
 ROOF TRUSS DETAILS
 (REVISED - 1)

DRAWING USE:
 For Building permit:
 For Construction:

Drawn by: J.M.S
 Date: June 2023 Scale:
 Drawing No:STR.CR Sheet: 07/09



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Page 2/2

Bar Bending Schedule
PROPOSED STANDARD DRAWINGS FOR SEQUIP - PROPOSED TWO CLASSROOMS WITH OFFICE BLOCK (COLUMNS AND ROOF RING 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	8	01	Y12	2850	32	91.4		
COLUMN	8	02	Y8	820	120	98.4		
ROOF BEAM 1	2	01	Y12	12000	4	48		
ROOF BEAM 1	2	02	Y12	10300	4	41.2		
ROOF BEAM 1	2	03	Y12	10300	4	41.2		
ROOF BEAM 1	2	04	Y12	12000	4	48		
ROOF BEAM 1	2	05	Y8	860	210	201.6		
ROOF BEAM 2	2	01	Y12	7850	8	62.8		
ROOF BEAM 2	2	02	Y8	860	72	69.12		
ROOF BEAM 3	2	01	Y12	7050	8	62.8		
ROOF BEAM 3	2	02	Y8	800	72	67.6		

Page 1/2

Bar Bending Schedule
PROPOSED STANDARD DRAWINGS FOR SEQUIP - PROPOSED TWO CLASSROOMS WITH OFFICE BLOCK (COLUMN FOOTINGS AND PLINTH 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	8	01	Y12	1300	48	62.4		
COLUMN FOOTING	8	02	Y12	1300	48	62.4		
COLUMN STARTER	8	03	Y8	820	40	32.8		
COLUMN STARTER	8	04	Y12	2200	32	70.4		
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	860	210	201.6		
GROUND BEAM 2	1	01	Y12	12000	2	24		
GROUND BEAM 2	1	02	Y12	10000	2	20.0		
GROUND BEAM 2	1	03	Y12	10000	2	20.0		
GROUND BEAM 2	1	04	Y12	12000	2	24		
GROUND BEAM 2	1	05	Y8	860	105	100.8		
GROUND BEAM 3	2	01	Y12	9350	8	74.8		
GROUND BEAM 3	2	02	Y8	860	86	82.56		
GROUND BEAM 4	2	01	Y12	9050	8	74.8		
GROUND BEAM 4	2	02	Y8	860	86	82.56		

PROJECT:
PROPOSED STANDARD DRAWINGS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM

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. R.A.M
Approved by:

DRAWING TITLE:
PROPOSED TWO - CLASSROOMS WITH OFFICE BLOCK
GROUND FLOOR BEAMS AND ROOF RING BEAMS BAR BENDING SCHEDULES (REVISED - 1)

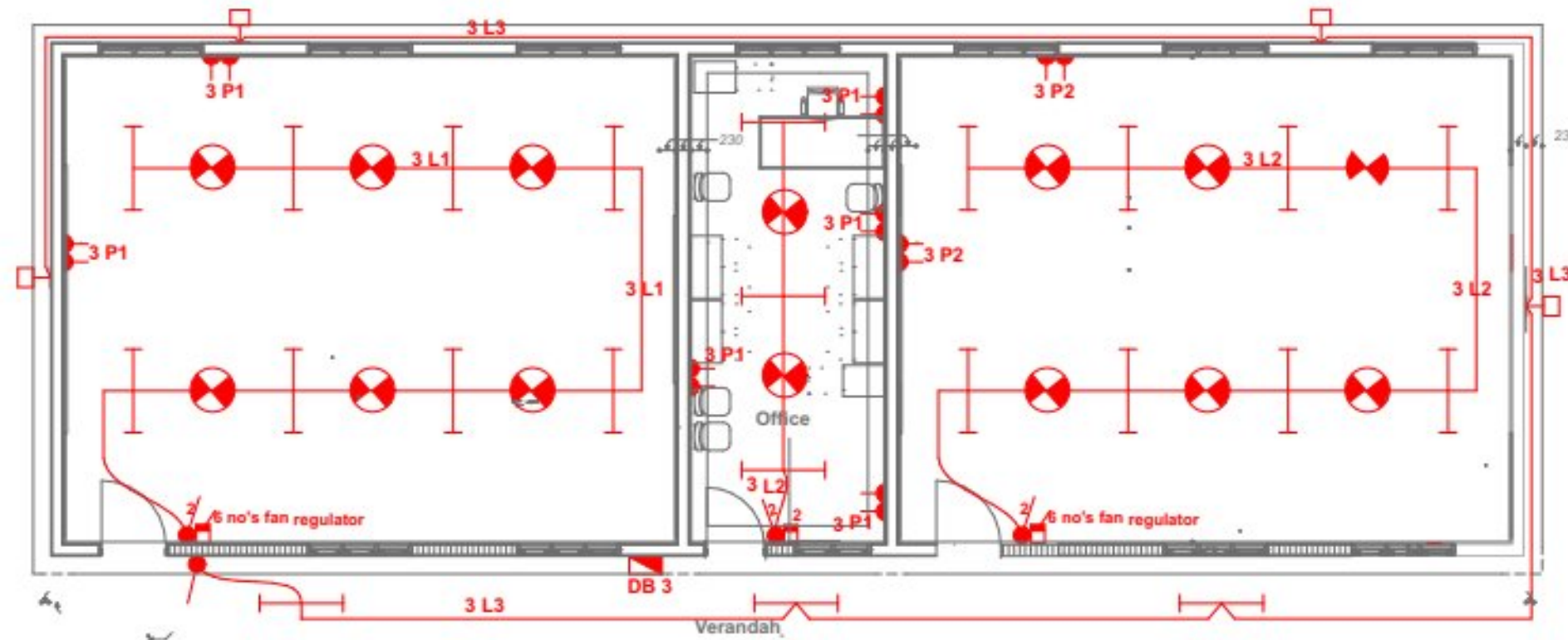
DRAWING USE:
For Building permits
For Construction:

Drawn by: J.M.S
Date: June 2023
Scale:

Drawing No.: STR.CR
Sheet: 09/09

Page 1/2	Bar Bending Schedule							
	PROPOSED STANDARD DRAWINGS FOR SEQUIP - PROPOSED TWO CLASSROOMS WITH OFFICE BLOCK (COLUMN FOOTINGS AND PLINTH 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	8	01	Y12	1300	48	62.4		
COLUMN FOOTING	8	02	Y12	1300	48	62.4		
COLUMN STARTER	8	03	Y8	820	40	32.8		
COLUMN STARTER	8	04	Y12	2200	32	70.4		
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	2	01	Y12	9350	8	74.8		
GROUND BEAM 3	2	02	Y8	960	86	82.56		
GROUND BEAM 4	2	01	Y12	9350	8	74.8		
GROUND BEAM 4	2	02	Y8	960	86	82.56		

ELECTRICAL DRAWINGS



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

PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS
FOR
SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM
PROPOSED 2 CLASSROOMS & OFFICE BLOCK

DRAWING TITLE:
: FLOOR LIGHTING & POWER
LAYOUT

DRAWING NO: S/EL/CR/03

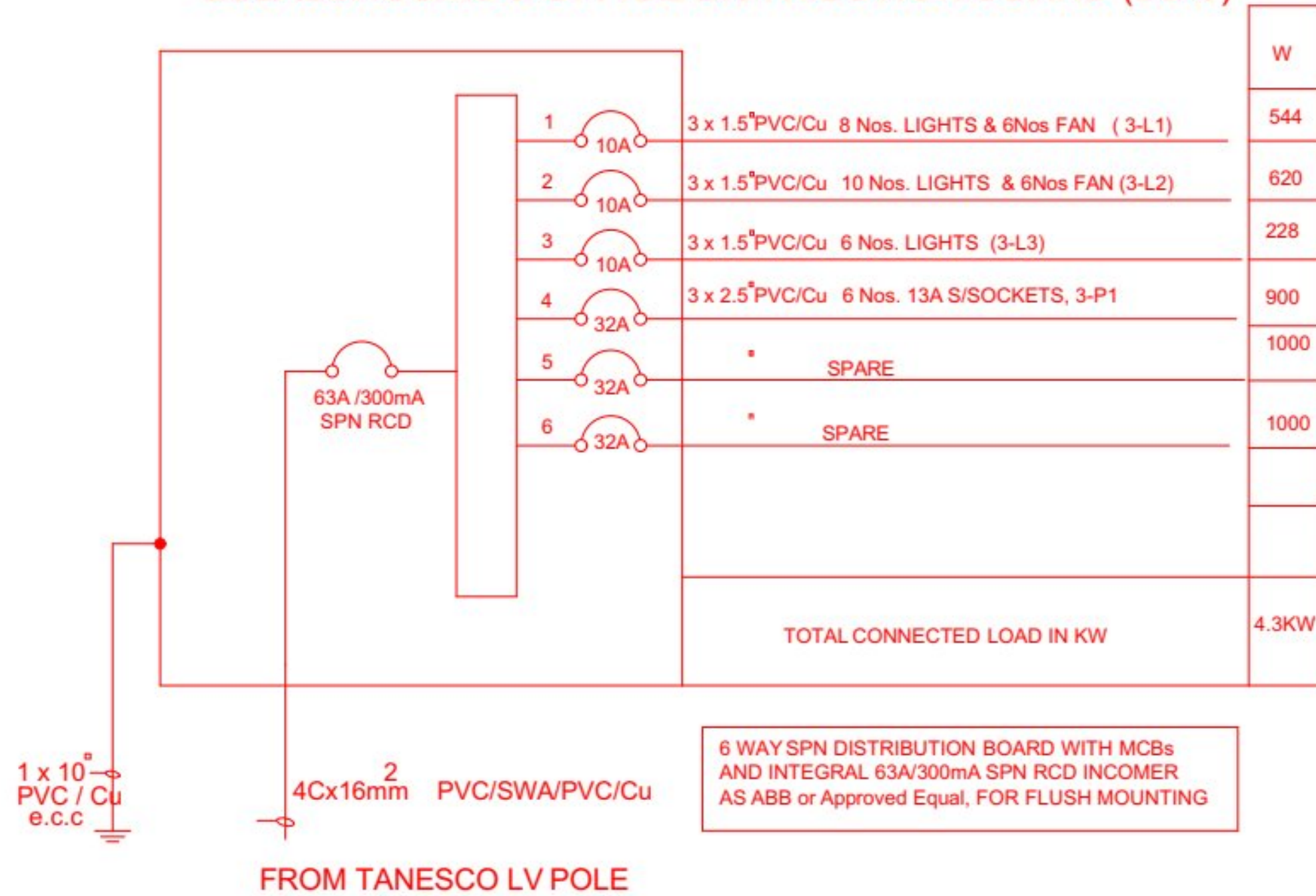
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2CLASSROOMS & OFFICE DISTRIBUTION BOARD (DB-3)



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PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM PROPOSED 2 CLASSROOMS & OFFICE BLOCK

DRAWING TITLE:
SCHEMATIC LAYOUT

DRAWING NO: S/EL/CR/03

DATE: June 2023

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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
	Earth point	

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DRAWING TITLE:

LEGEND

DRAWING NO: S/EL/CR/03

DATE: June 2023

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