

ARCHITECTURAL DRAWINGS

LIBRARY BLOCK

ARCHITECTURAL DRAWING

Library Block -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: LIBRARY BLOCK- Hipped

DRAWING NO: ARC/LBR/00

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

WINDOW SCHEDULE

WINDOW TYPE	HEIGHT x WIDTH	QUANTITY(S)
W 01	1500mm x 1500mm	11
TOTAL		11
DOOR SCHEDULE		
D 1	2500mm x 900mm	2
TOTAL		2



FURNITURES

KEY	ITEM	NO
1e	cardex cabinet	1
2k	pinboard	4
2x	work bench	1
2w	work bench	2
3g	book case	2
3n	library shelf	36
3r	shelves unit	1
4a	single desk	40
4h	general tables	2
4k	counter section	1
5a	general chair	54
7b	book trolley	1

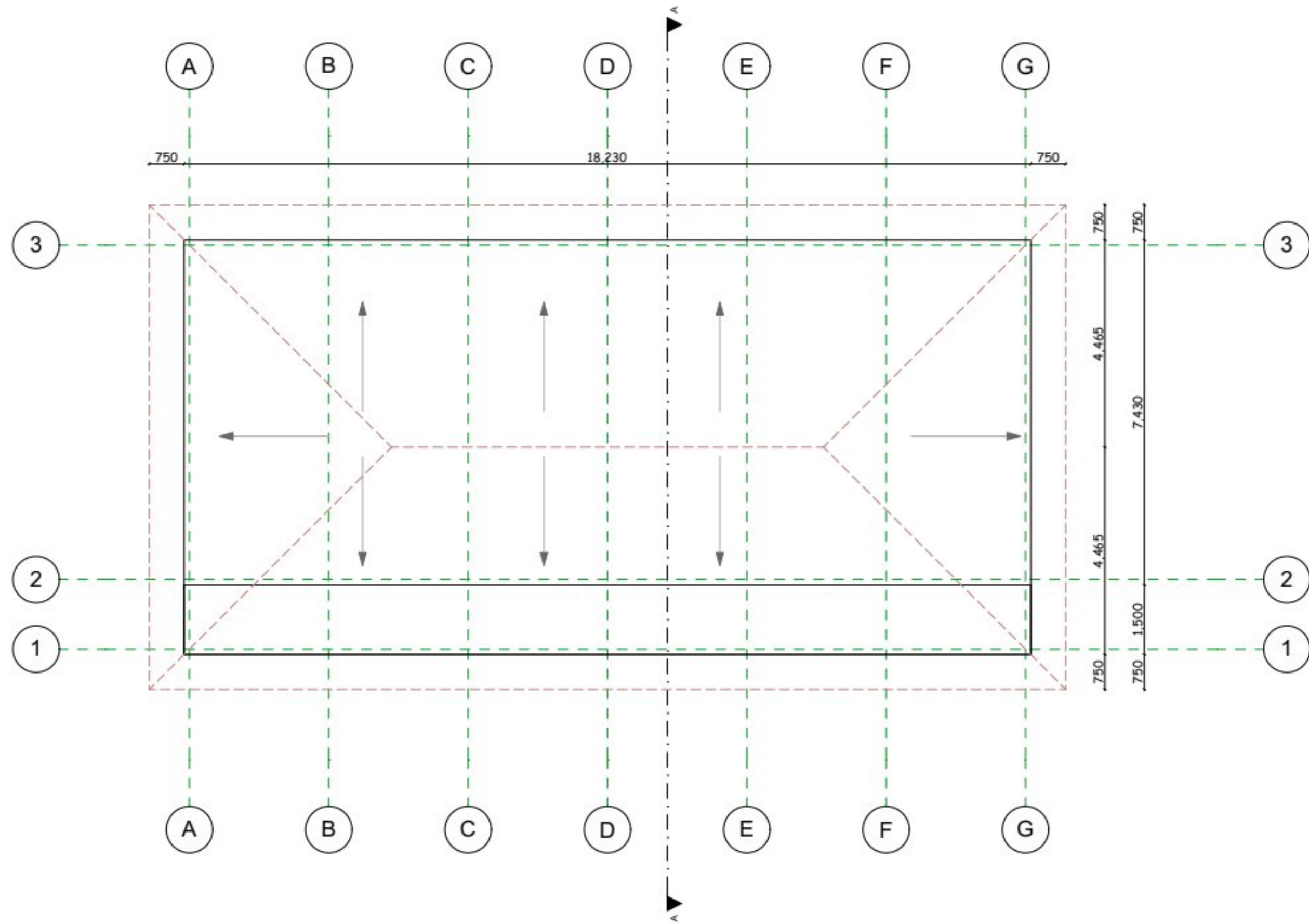
TOTAL FLOOR AREA = 163 SQM

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

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

DRAWING TITLE: LIBRARY BLOCK HIPPED
FLOOR PLAN
 DRAWING NO: ARC/LBRH/01

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

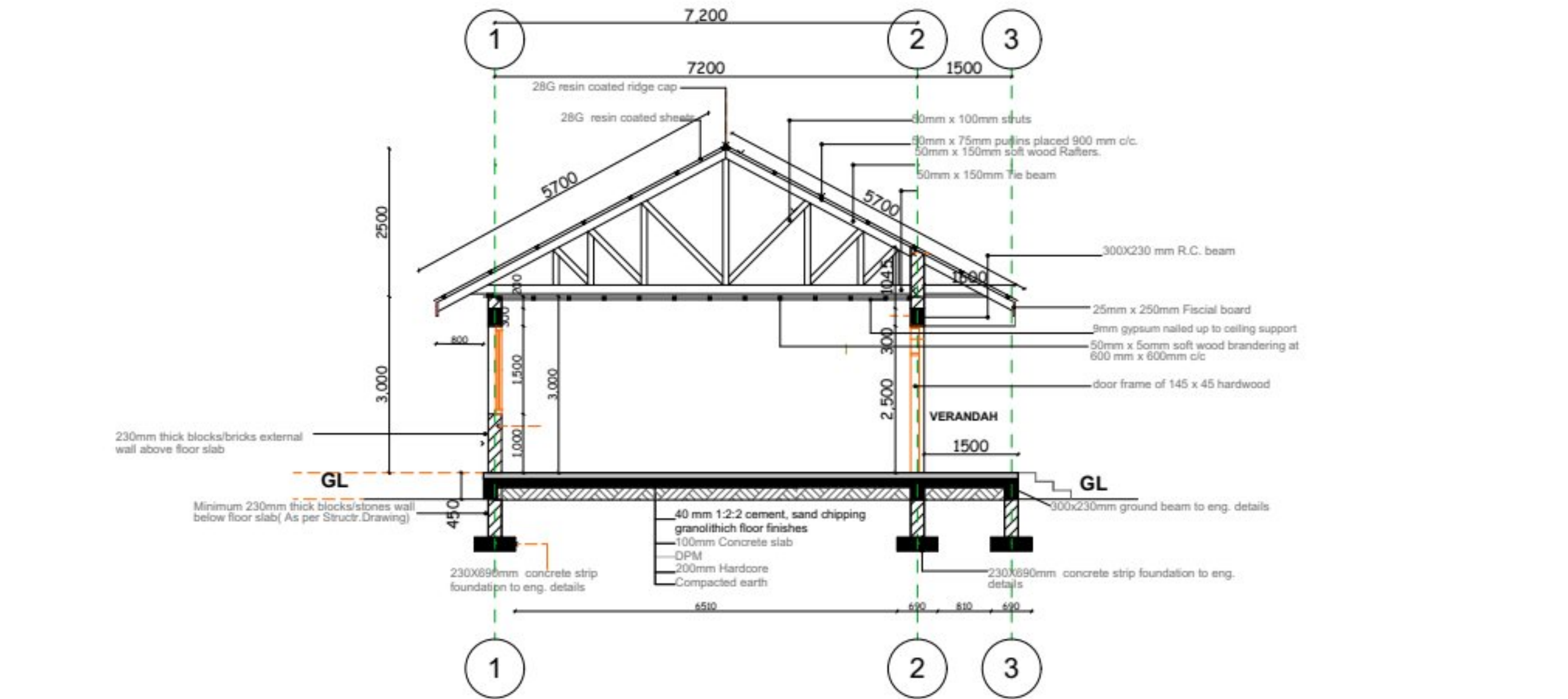


MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
 IN COLLABORATION WITH
PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

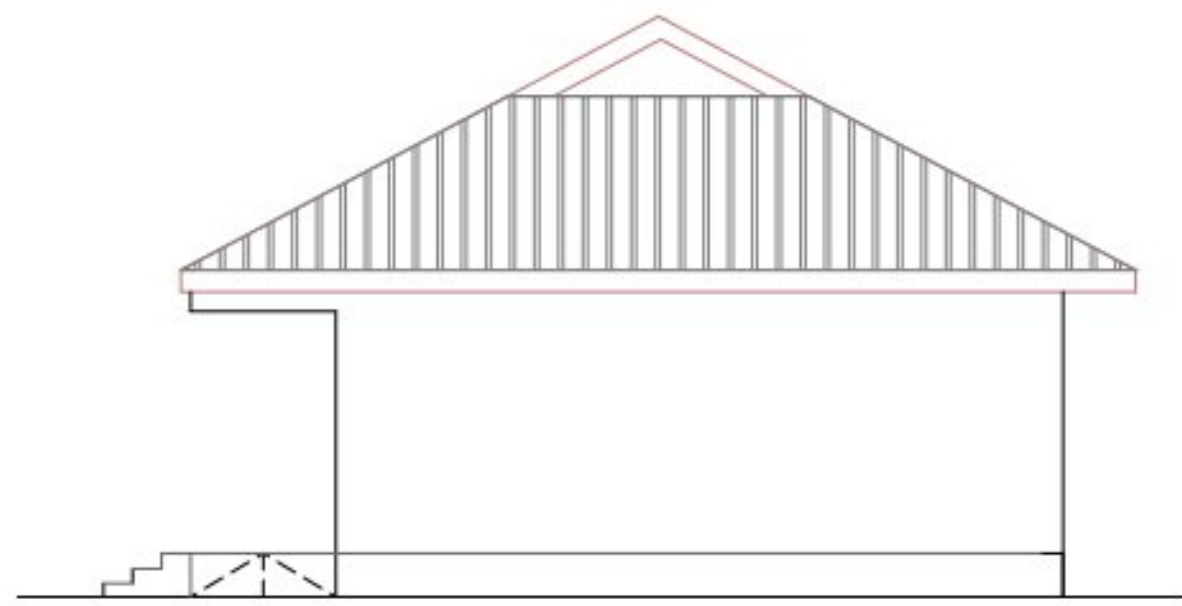
PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM

DRAWING TITLE: LIBRARY BLOCK HIPPED
ROOF PLAN AREA PRONE TO EARTHQUAKE
 DRAWING NO: ARC/LBRH/02

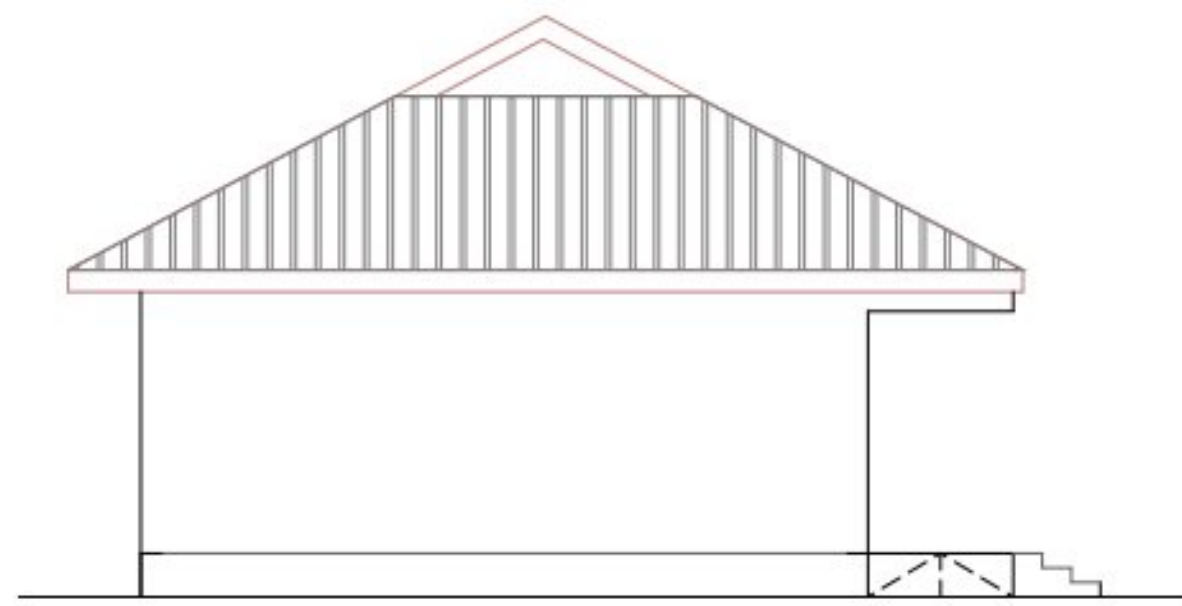
Date	June, 2023
Drawn by	IAS
Checked by	JR
Scale	To fit



TYPICAL SECTION

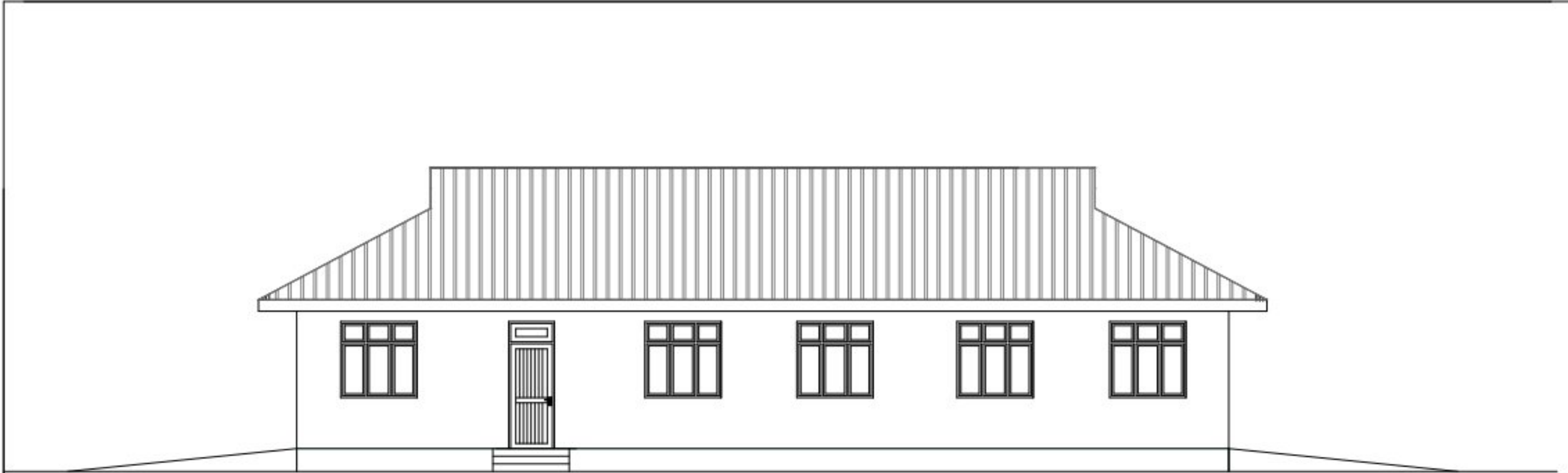


SIDE ELEVATION

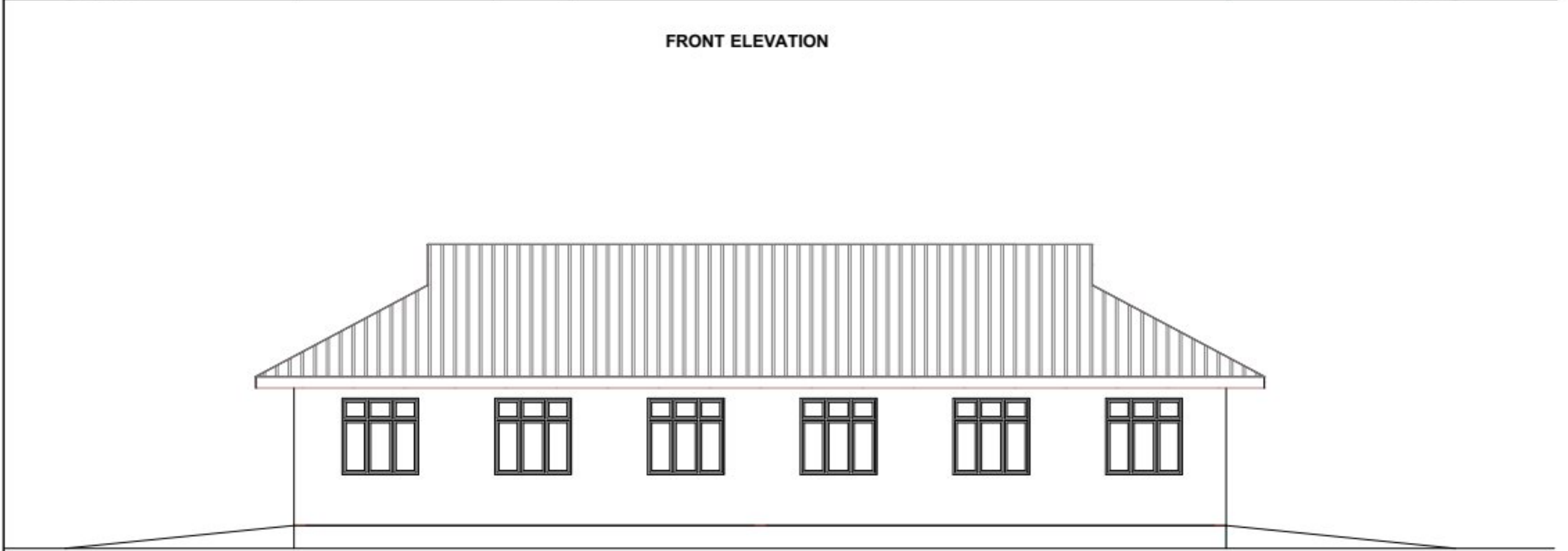


SIDE ELEVATION

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY <i>IN COLLABORATION WITH</i> PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT	PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM	DRAWING TITLE: LIBRARY BLOCK HIPPED TYPICAL SECTION - SIDE ELEVATIONS AREA PRONE TO EARTH QUAKE DRAWING NO: ARC/LBRH/03	Date	June, 2023
			Drawn by	IAS
			Checked by	JR
			Scale	To fit



FRONT ELEVATION



REAR ELEVATION

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: LIBRARY BLOCK HIPPED
ELEVATIONS - AREA PRONE TO EARTHQUAKE
 DRAWING NO: ARC/LBRH/04

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

STRUCTURAL DRAWINGS

STRUCTURAL DRAWINGS

FOR

LIBRARY BLOCK - HIPPED

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.
- 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 BS-4449 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".
- Clear cover for reinforcement shall be as follows:
 - Slabs 25mm
 - Beams 25mm
 - Columns 25mm
 - Footings 50mm
- 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

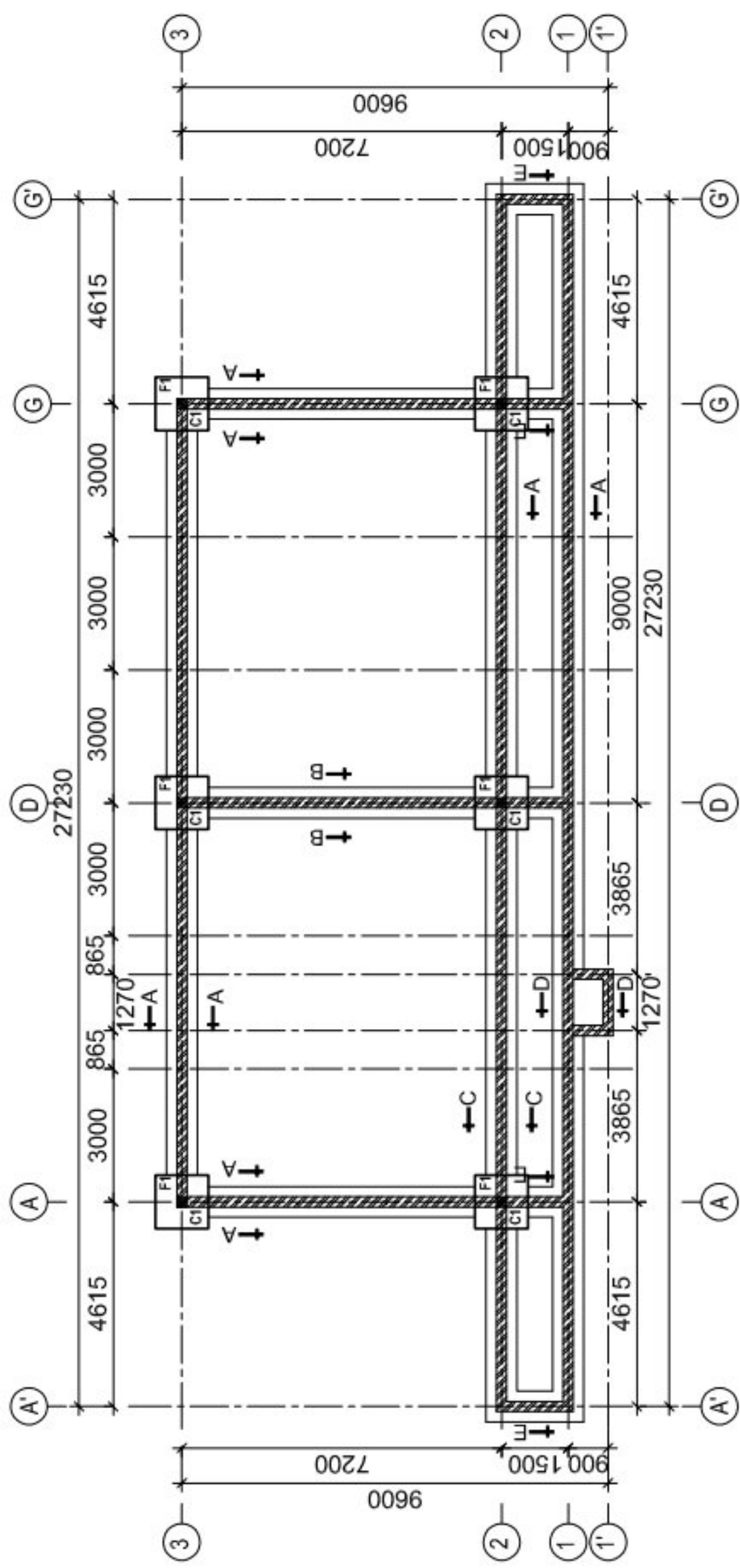
MINISTRY OF EDUCATION,
 SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
 PRESIDENT'S OFFICE
 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.

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

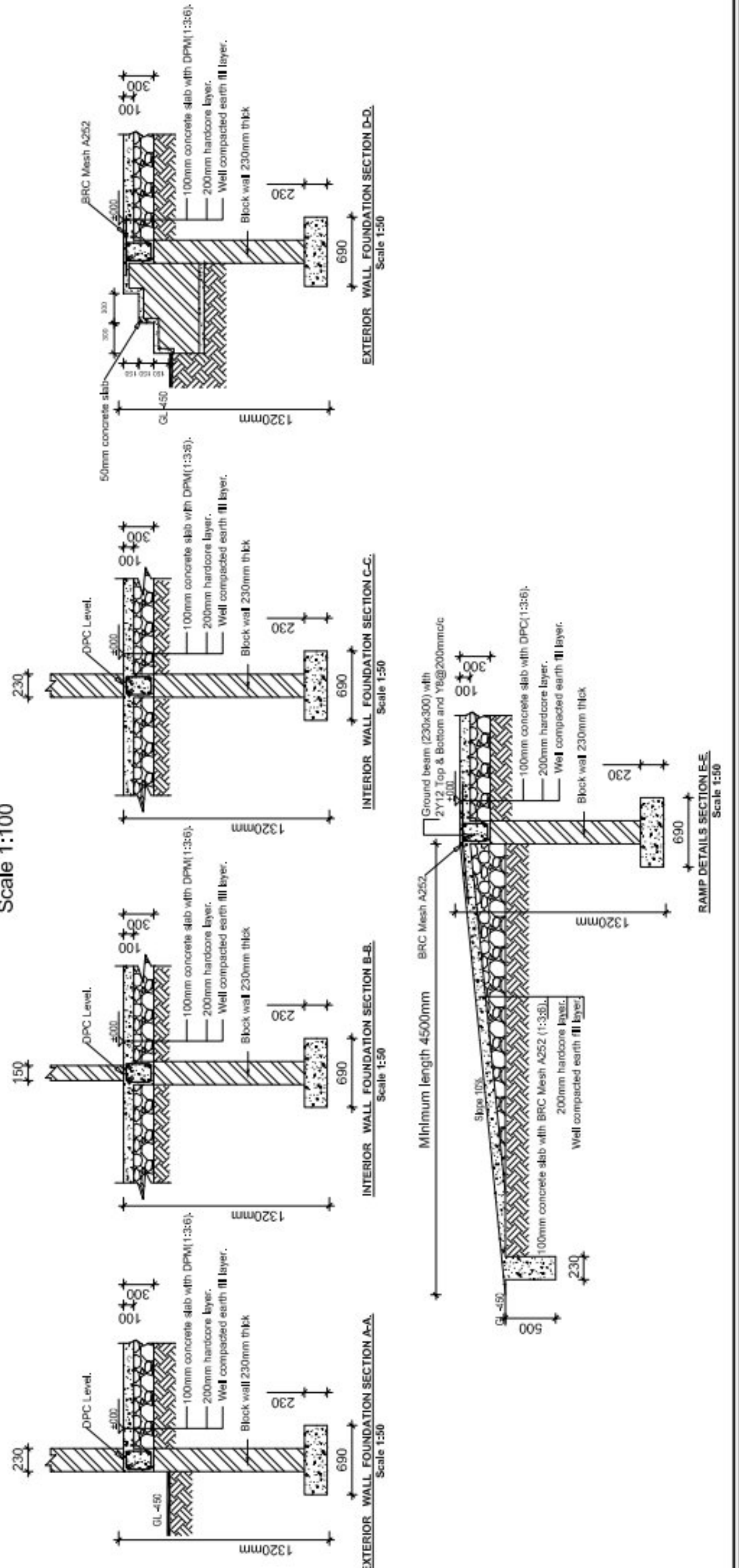
DRAWING TITLE:
 PROPOSED LIBRARY BLOCK
 FOUNDATION LAYOUT PLAN AND
 SECTION DETAILS

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

Drawn by: J.M.S
 Date: June 2023
 Drawing No: STR_LIB
 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.
- All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1:2:4 cube strength not less than 20N/mm² at 28 days.
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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:

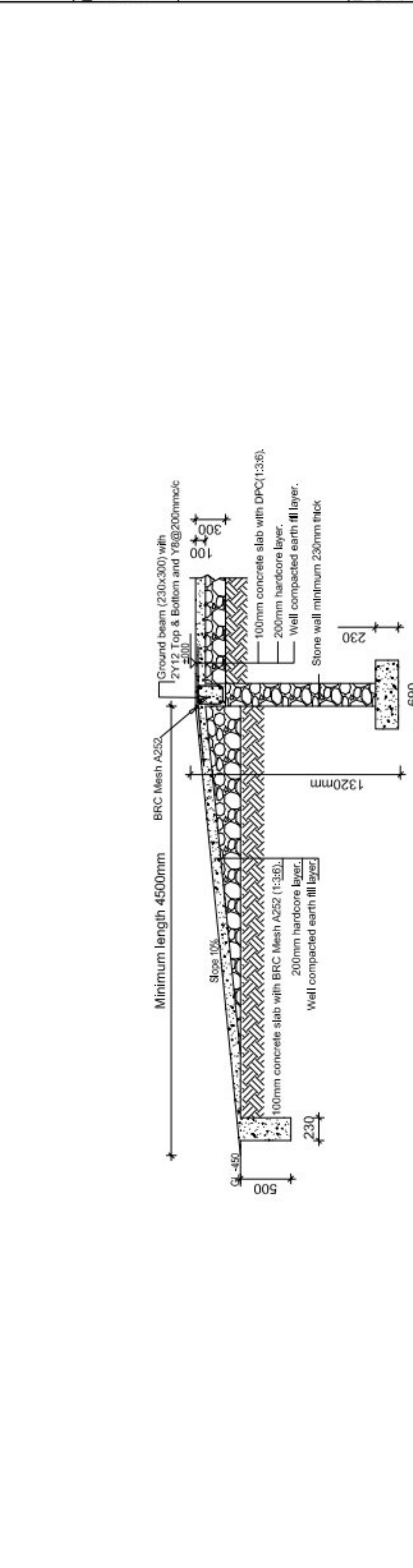
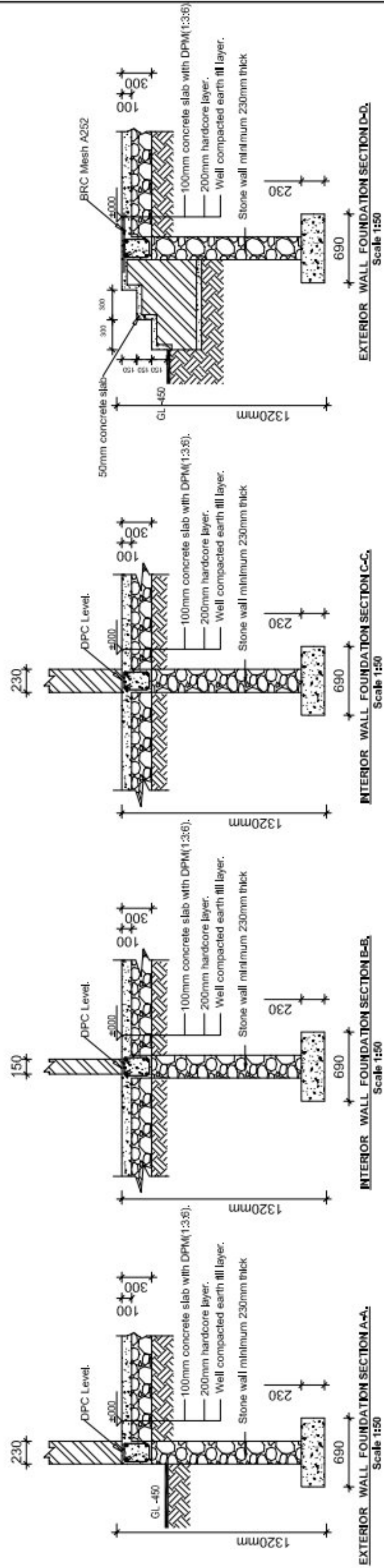
DRAWING TITLE:
 PROPOSED LIBRARY BLOCK

FOUNDATION SECTION DETAILS
 (STONE WALLS)

(REVISED - 1)

DRAWING USE:
 For Building permit:
 For Construction:

Drawn by: J.M.S
 Date: June 2023
 Drawing No: STR.LIB
 Sheet: 02/09



NOTE:

- All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
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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 LIBRARY BLOCK
 COLUMN FOOTINGS AND
 COLUMNS DETAILS
 (REVISED - 1)

DRAWING USE:

For Building permit:

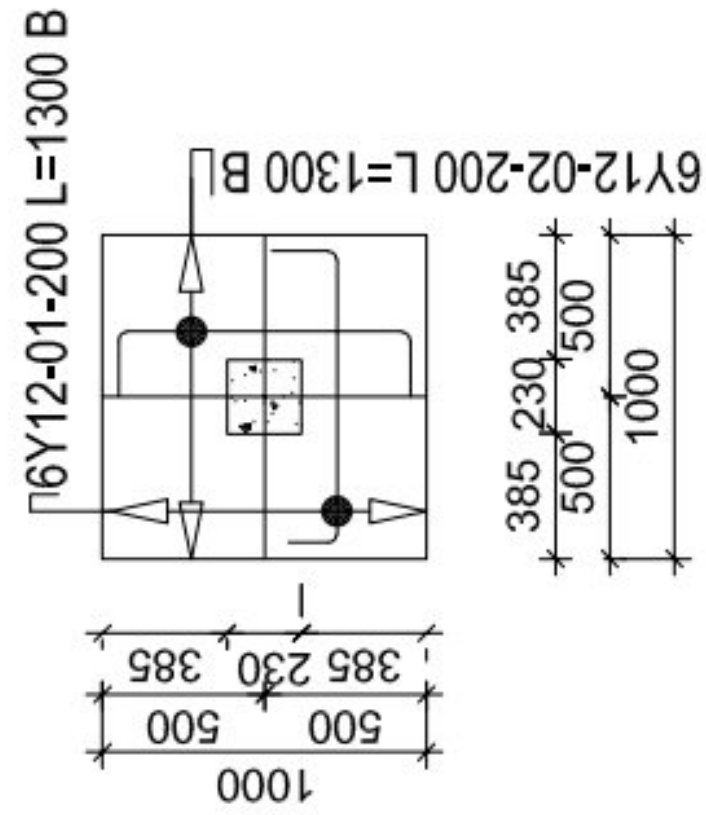
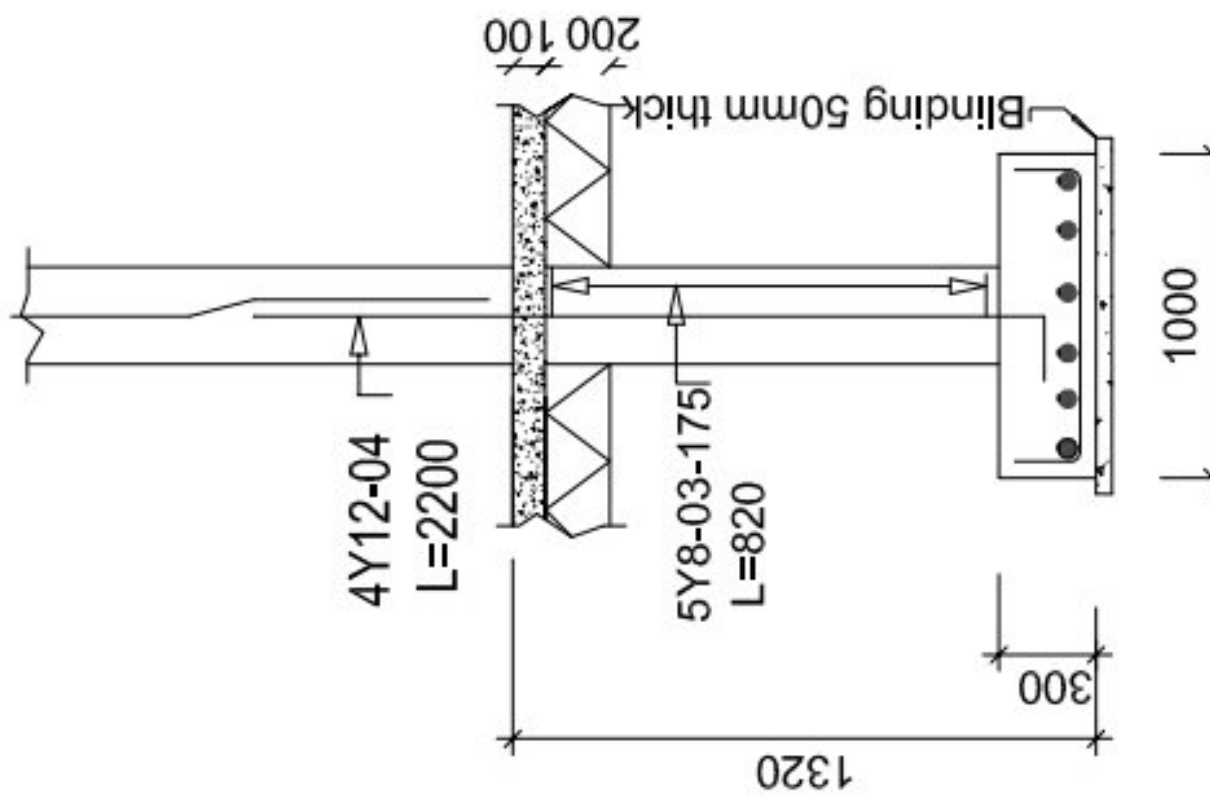
For Construction:

Drawn by: J.M.S

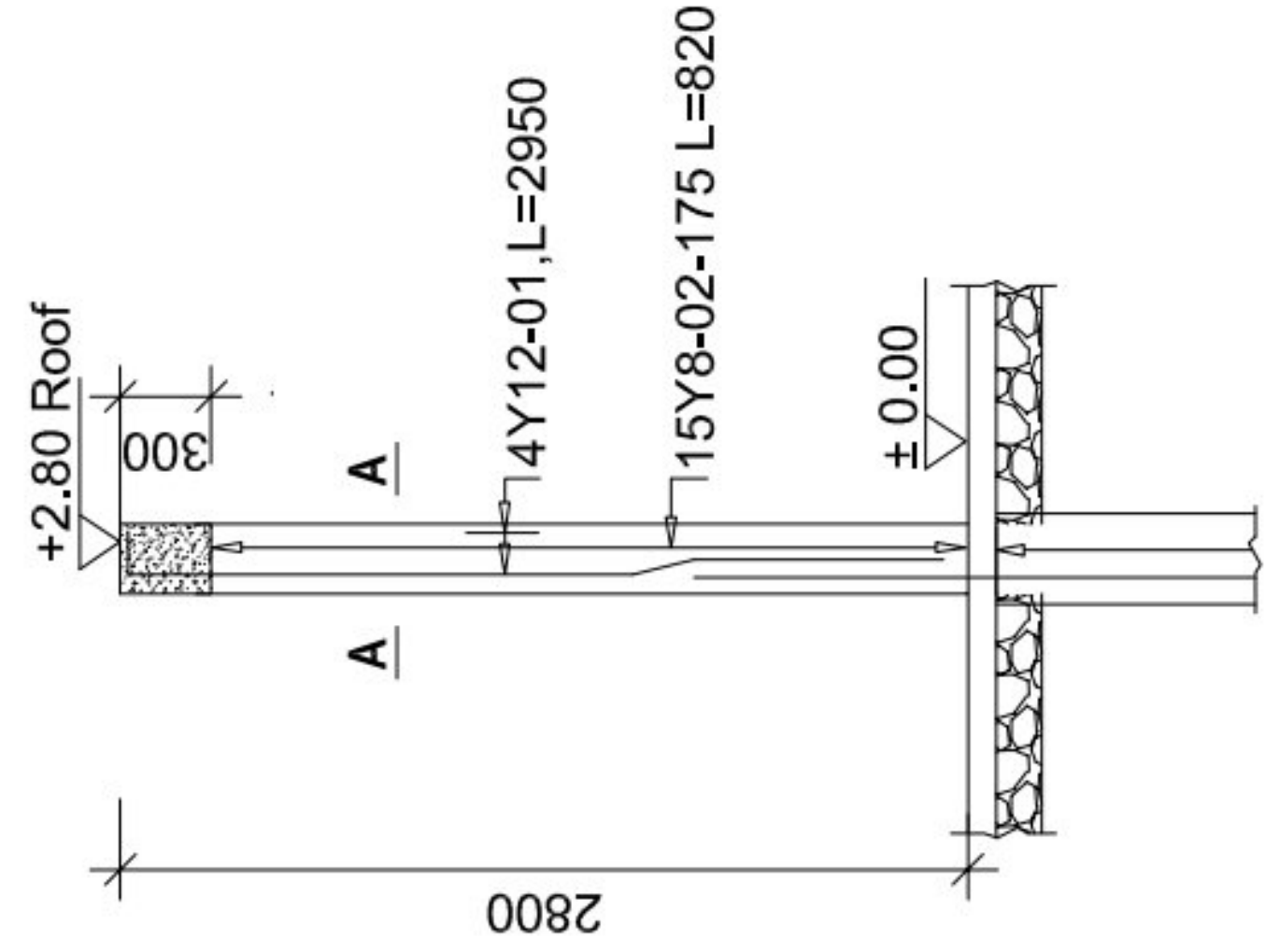
Date: June 2023

Scale:

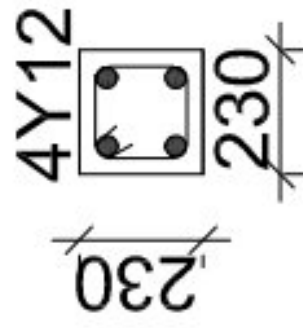
Drawing No: STR.LIB Sheet 03/09



FOOTING F1 (1000x1000x300) 6Nos.
 Scale 1:50



COLUMN C1(230 x 230), 6Nos
 Scale 1:100



Section A - A
 Scale 1:50

NOTE:

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PROJECT:
 PROPOSED STANDARD DRAWINGS
 FOR SECONDARY EDUCATION
 QUALITY IMPROVEMENT PROGRAM

MINISTRY OF EDUCATION,
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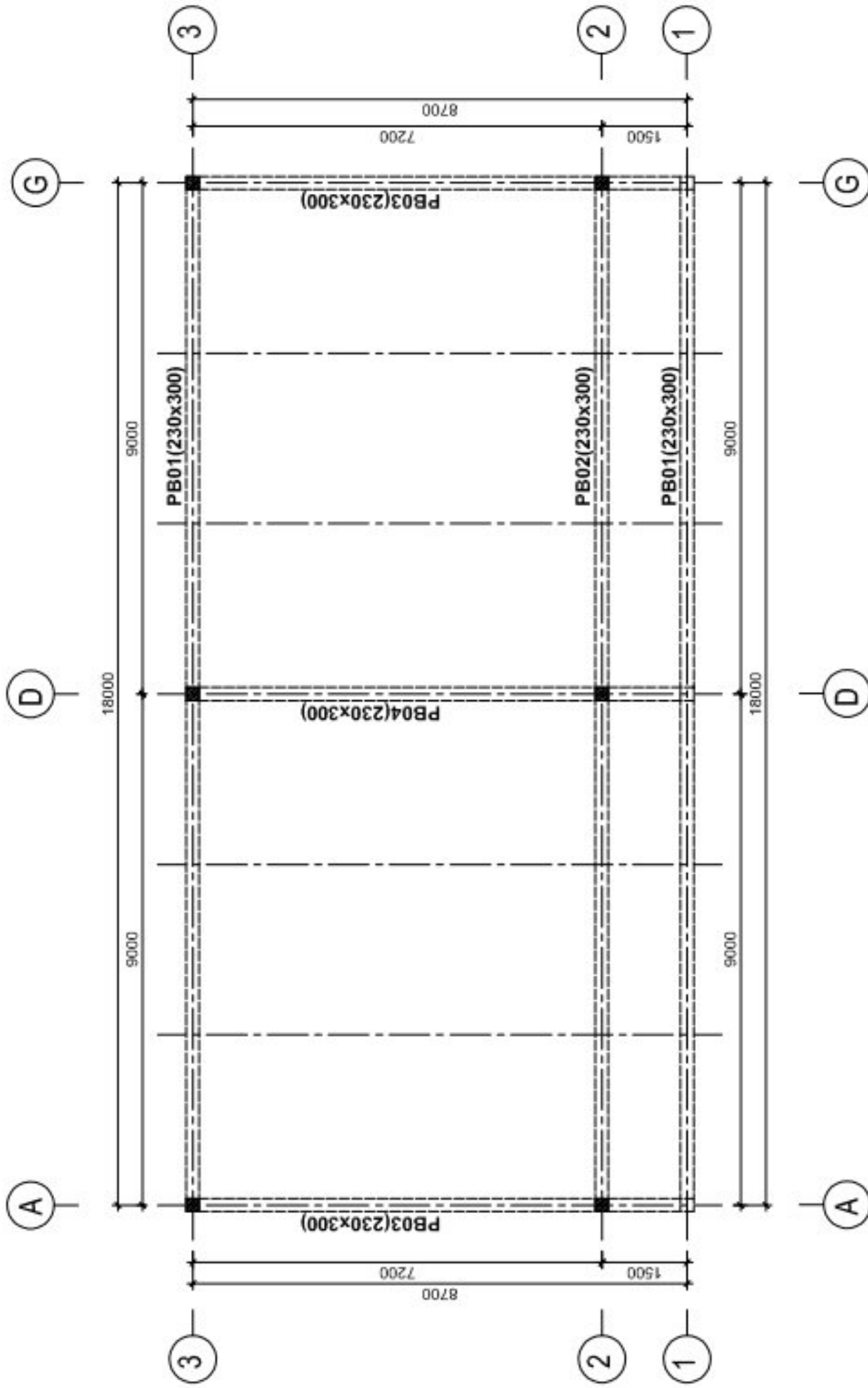
Designed by: Eng. J.M.S
 Checked by: Eng. R.A.M
 Approved by:

DRAWING TITLE:
 PROPOSED LIBRARY BLOCK

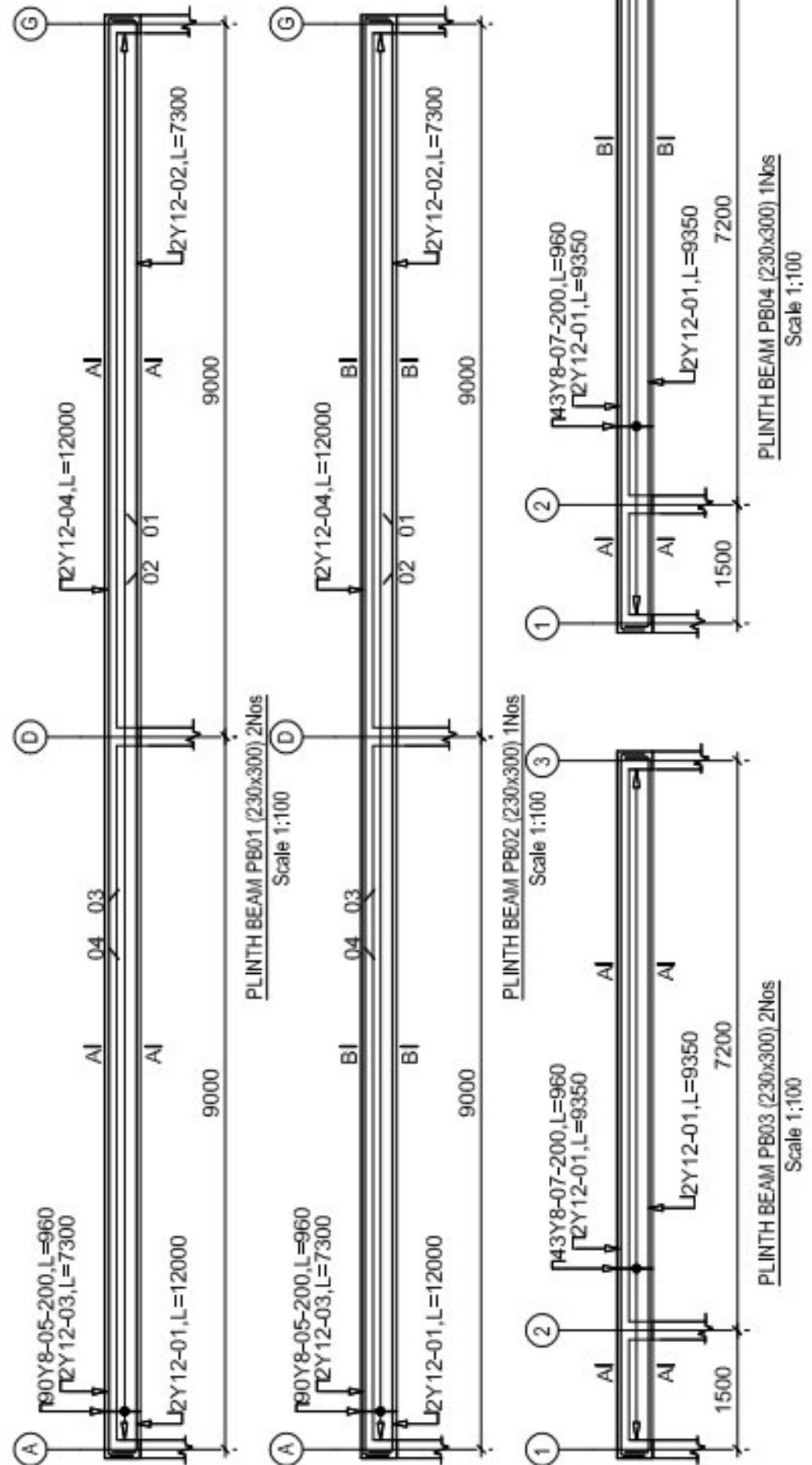
PLINTH BEAMS LAYOUT PLAN AND
 SECTION DETAILS
 (REVISED - 1)

DRAWING USE:
 For Building permits
 For Construction:

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



PLINTH BEAMS LAYOUT PLAN
 Scale 1:100



NOTE:

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PROJECT:
 PROPOSED STANDARD DRAWINGS
 FOR SECONDARY EDUCATION
 QUALITY IMPROVEMENT PROGRAM

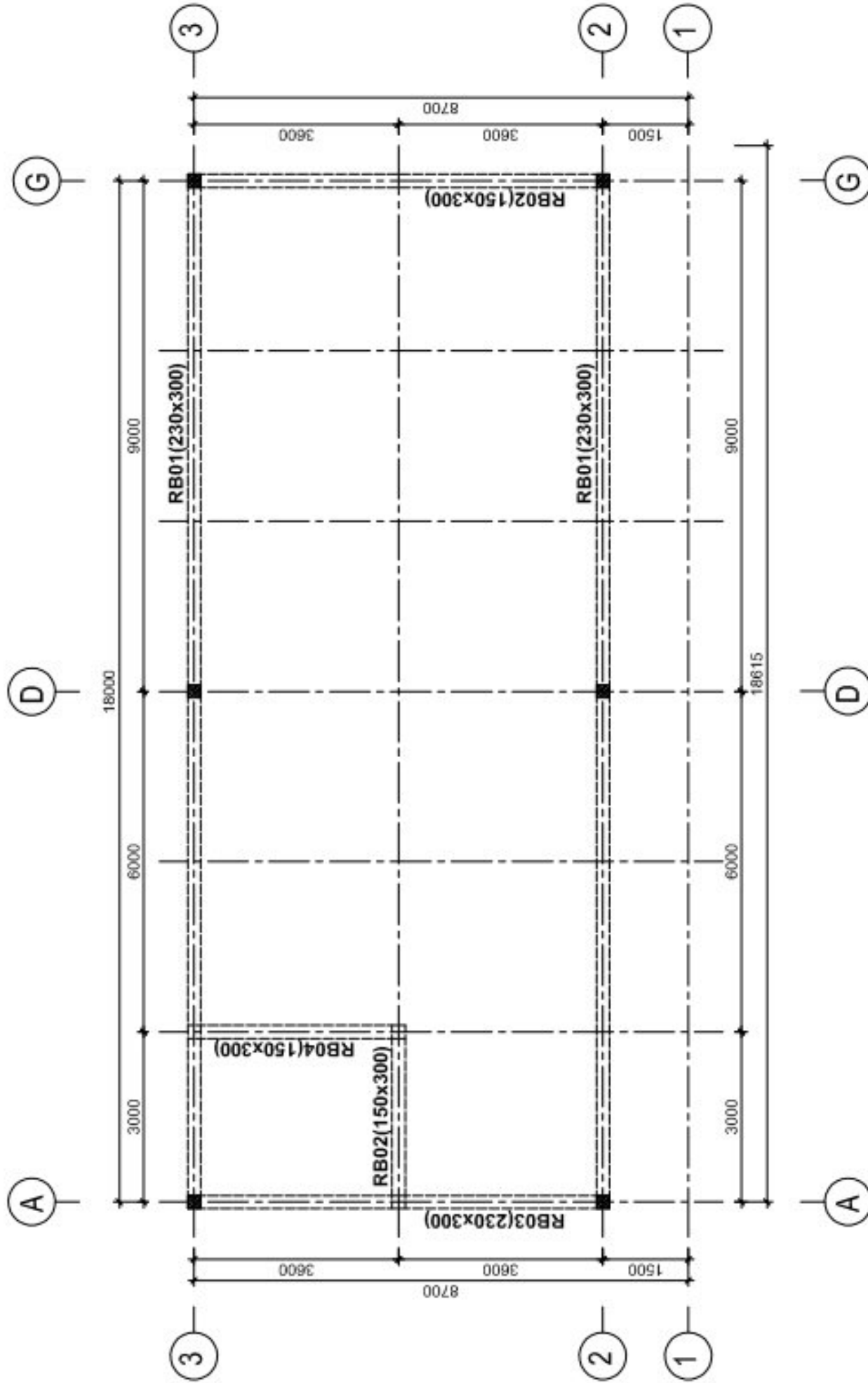
MINISTRY OF EDUCATION,
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 PRESIDENT'S OFFICE
 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.

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

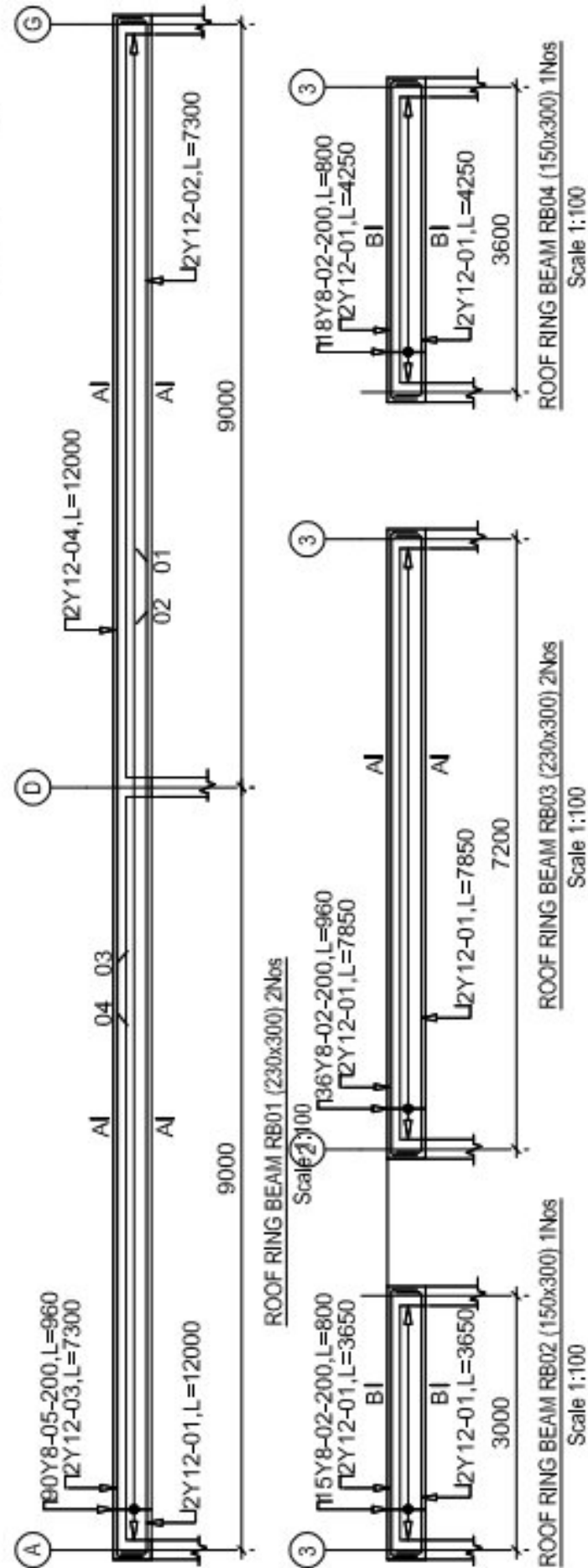
DRAWING TITLE:
 PROPOSED LIBRARY BLOCK
 ROOF RINGS BEAMS LAYOUT PLAN
 AND SECTION DETAILS
 (REVISED - 1)

DRAWING USE:
 For Building permit:
 For Construction:

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



ROOF RING BEAMS LAYOUT PLAN
 Scale 1:100



NOTE:

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PROJECT:
 PROPOSED STANDARD DRAWINGS
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 QUALITY IMPROVEMENT PROGRAM

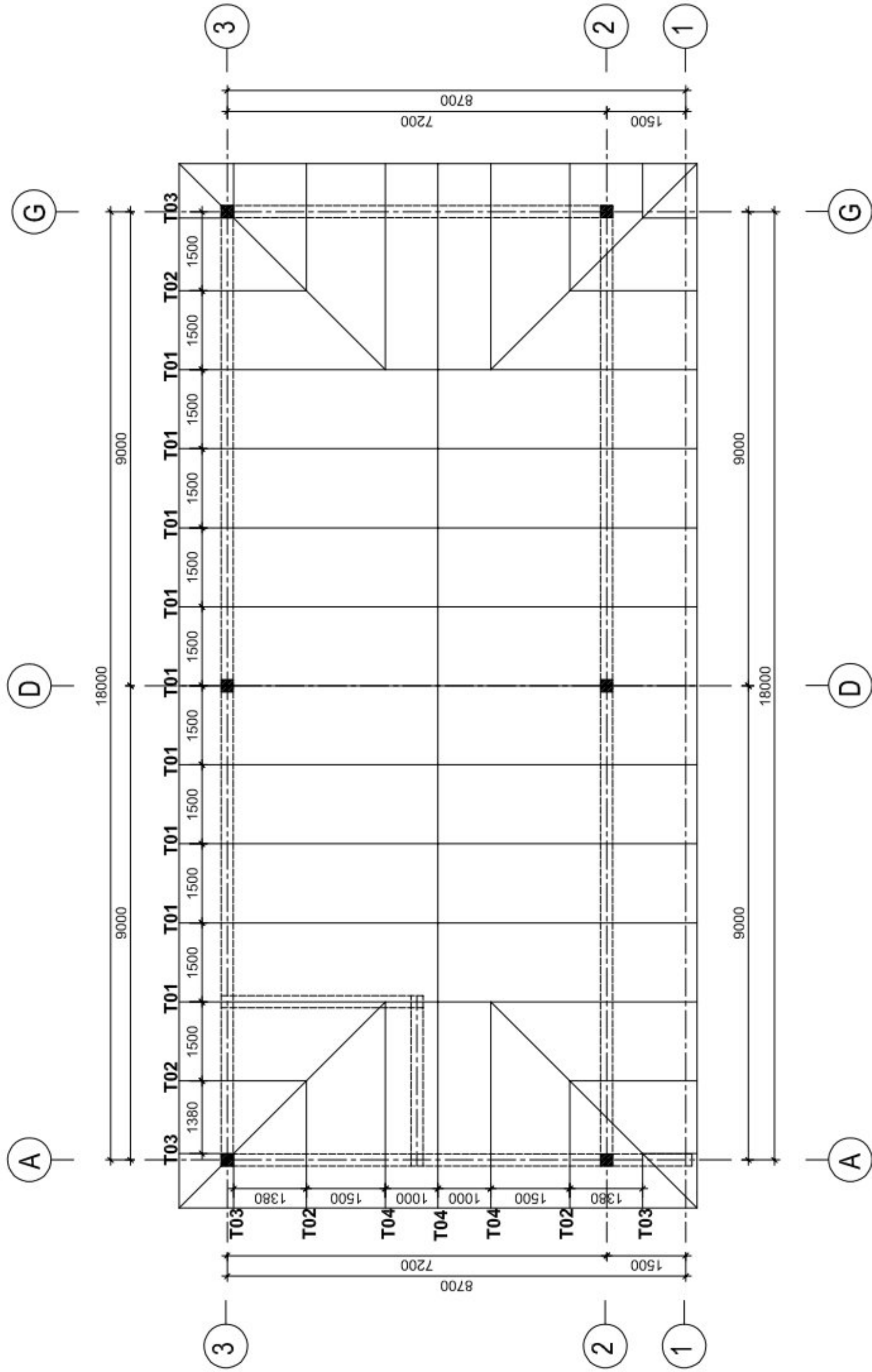
**MINISTRY OF EDUCATION,
 SCIENCE AND TECHNOLOGY
 IN COLLABORATION WITH
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 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.**

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

DRAWING TITLE:
 PROPOSED LIBRARY 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.LIB
 Scale:
 Sheet: 06/09



ROOF TRUSS LAYOUT PLAN
 Scale 1:100

NOTE:

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PROJECT:
 PROPOSED STANDARD DRAWINGS
 FOR SECONDARY EDUCATION
 QUALITY IMPROVEMENT PROGRAM

MINISTRY OF EDUCATION,
 SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH

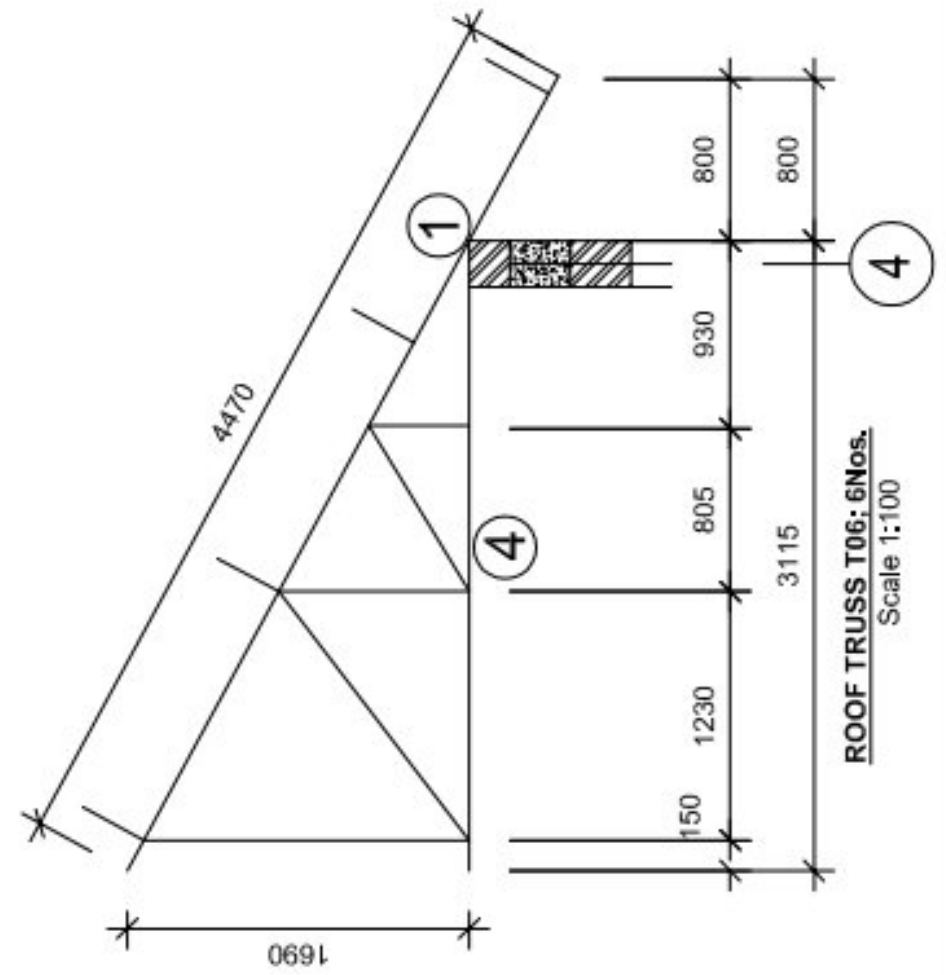
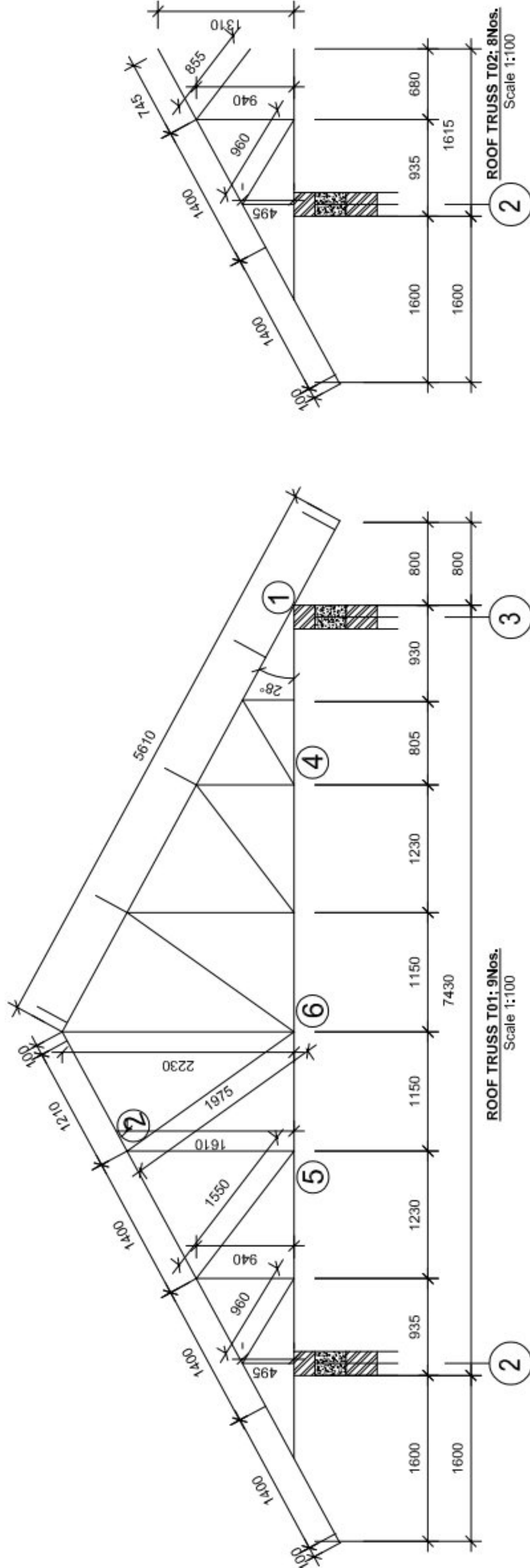
PRESIDENT'S OFFICE
 REGIONAL ADMINISTRATION AND
 LOCAL GOVERNMENT.

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

DRAWING TITLE:
 PROPOSED LIBRARY 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.LIB Sheet 07/09

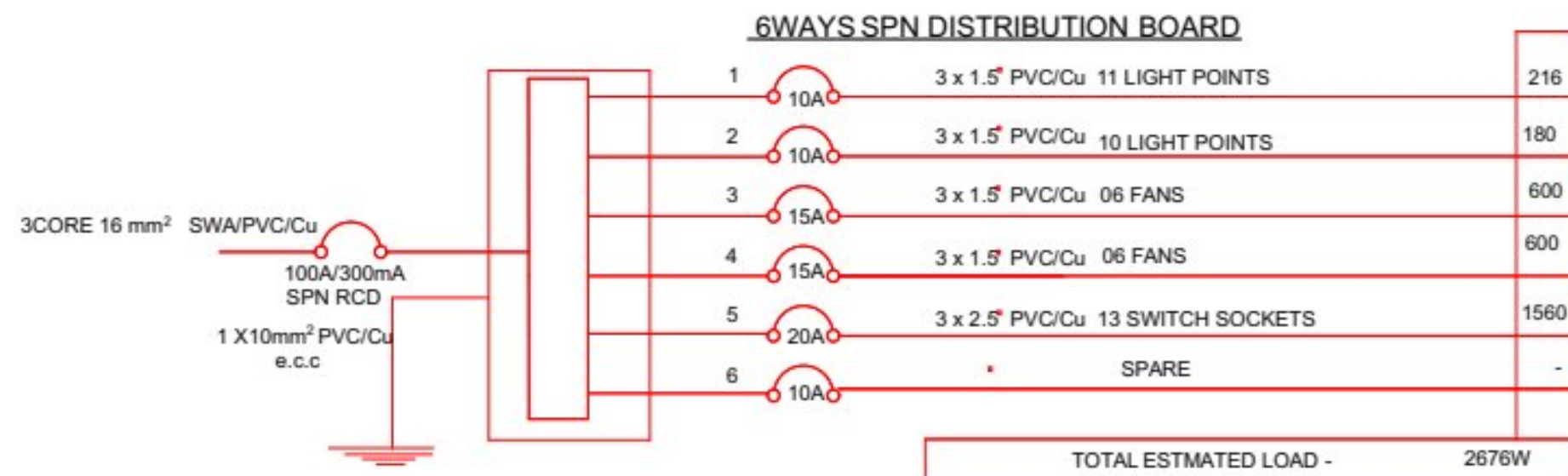
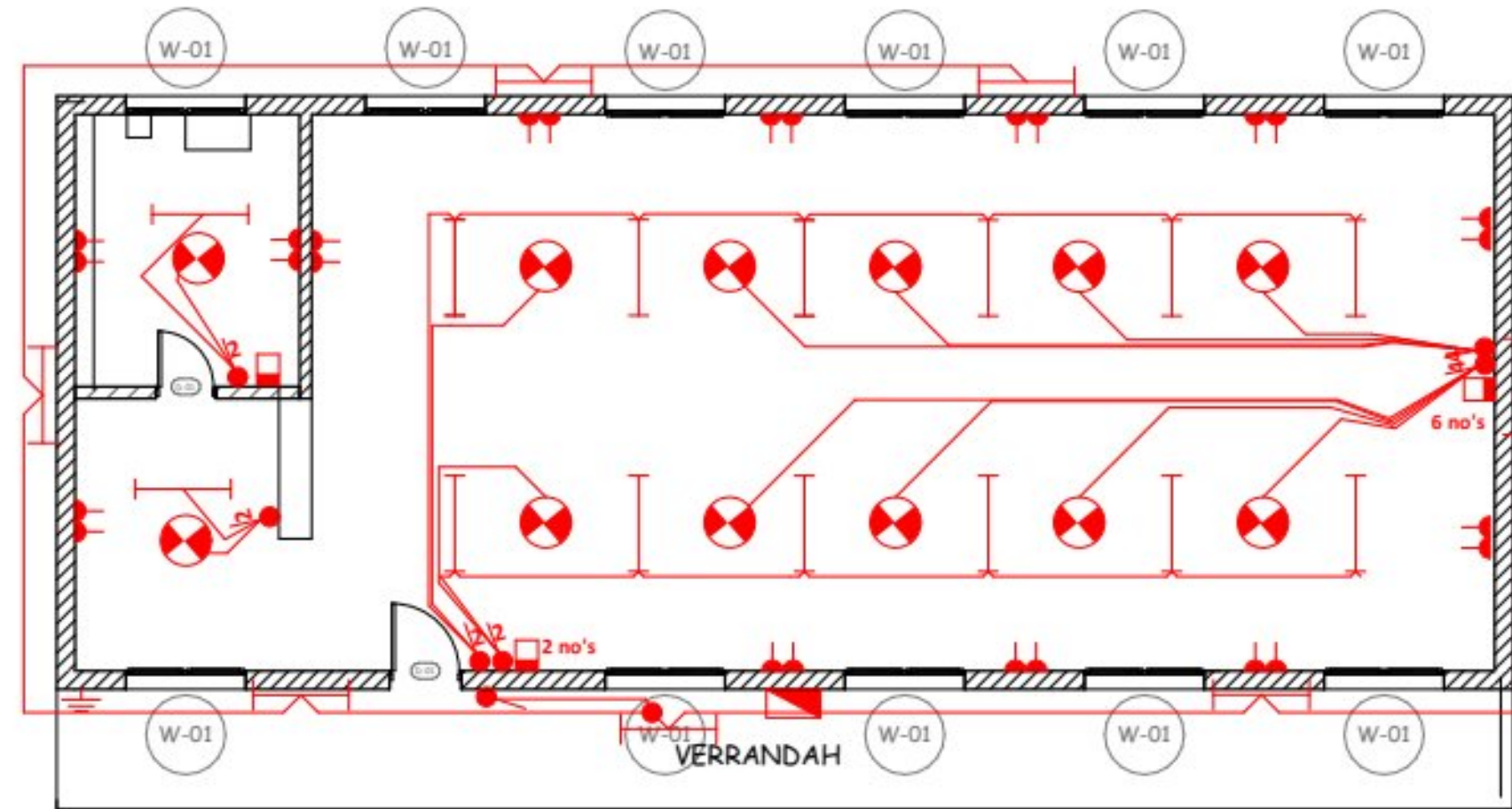


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1.	All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2.	All structural engineering drawings should be read in conjunction with relevant architectural drawings.
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5.	Bars lap length should be at least 50 times the diameter of the bars lapped.
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7.	All concrete work to be done in one operation.
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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 ² .

Page 2/2		Bar Bending Schedule						PROPOSED STANDARD DRAWINGS FOR SEQUIP - LIBRARY BLOCK - HIPPED (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)	NOTE
									COLUMN C01	6	01	Y12	2950	24	70.8			
									COLUMN C01	6	02	Y8	820	90	73.8			
									ROOF RING BEAM RB01	2	01	Y12	12000	4	48			
									ROOF RING BEAM RB01	2	02	Y12	7300	4	29.2			
									ROOF RING BEAM RB01	2	03	Y12	7300	4	29.2			
									ROOF RING BEAM RB01	2	04	Y12	12000	4	48			
									ROOF RING BEAM RB01	2	05	Y8	960	180	172.8			
									ROOF RING BEAM RB02	1	01	Y12	3650	4	14.6			
									ROOF RING BEAM RB02	1	02	Y8	800	15	12			
									ROOF RING BEAM RB03	2	01	Y12	9350	8	74.8			
									ROOF RING BEAM RB03	2	02	Y8	960	86	82.56			
									ROOF RING BEAM RB04	1	01	Y12	4250	4	17			
									ROOF RING BEAM RB04	1	02	Y8	800	18	14.4			

Page 1/2		Bar Bending Schedule						PROPOSED STANDARD DRAWINGS FOR SEQUIP - LIBRARY BLOCK - HIPPED (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)	NOTE
									COLUMN FOOTING F01	6	01	Y12	1300	36	46.8			
									COLUMN FOOTING F01	6	02	Y12	1300	36	46.8			
									COLUMN FOOTING F01	6	03	Y8	820	30	24.6			
									COLUMN FOOTING F01	6	04	Y12	2200	24	52.8			
									PLINTH BEAM PB01	2	01	Y12	12000	4	48			
									PLINTH BEAM PB01	2	02	Y12	7300	4	29.2			
									PLINTH BEAM PB01	2	03	Y12	7300	4	29.2			
									PLINTH BEAM PB01	2	04	Y12	12000	4	48			
									PLINTH BEAM PB01	2	05	Y8	960	180	172.8			
									PLINTH BEAM PB02	1	01	Y12	12000	2	24			
									PLINTH BEAM PB02	1	02	Y12	7300	2	14.6			
									PLINTH BEAM PB02	1	03	Y12	7300	2	14.6			
									PLINTH BEAM PB02	1	04	Y12	12000	2	24			
									PLINTH BEAM PB02	1	05	Y8	960	90	86.4			
									PLINTH BEAM PB03	2	01	Y12	9350	8	74.8			
									PLINTH BEAM PB03	2	02	Y8	960	86	82.56			
									PLINTH BEAM PB04	1	01	Y12	9350	4	37.4			
									PLINTH BEAM PB04	1	02	Y8	960	43	41.28			

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 LIBRARY BLOCK

DRAWING TITLE:
FLOOR PLAN - LIGHTING&POWER LAYOUT
DRAWING NO: ELECT/LIBR/01

Date	Jun2023
Drawn by	EEC
Checked by	EEC
Scale	To ft

KEY TO SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	Distribution Board with integral RCD	2000 mm AFFL
	Bulkhead light Fitting	Wall Mounted
	4FT Single LED TUBE Light	On Ceiling
	Ceiling 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
	Ceiling light complete with energy saver/LED 11w	on ceiling level
	Earth point	

MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY IN
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DRAWING TITLE:

LEGEND

DRAWING NO: ELECT/LIBR/02

DATE: Jun 2023

DRAWN BY EEC

CHECKED BY EEC

SCALE: NTS