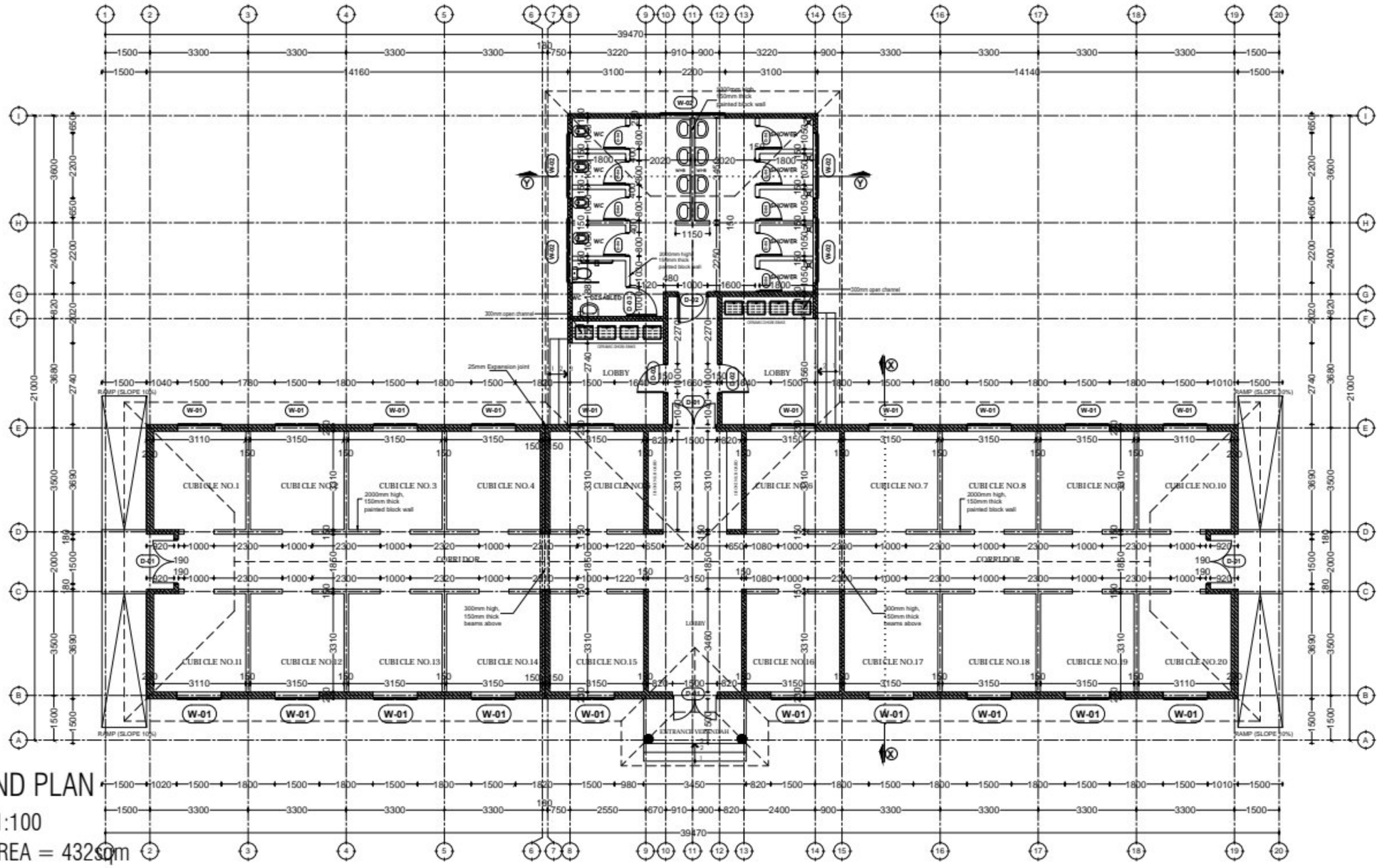
ARCHITECTURAL DRAWINGS

80 STUDENTS DORMITORY

ARCHITECTURAL DRAWING

JUNE, 2023

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY *IN COLABORATION WITH* **PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM (SEQUIP) (26 GIRL'S SCHOOLS)**	DRAWING TITLE **80 STUDENTS DORMITORY** DRAWING NO. **SQP/ARC/DORM - 00**	DRAWN BY J.R CHECKED BY L.S SCALE 1;100 *JUNE,2023*

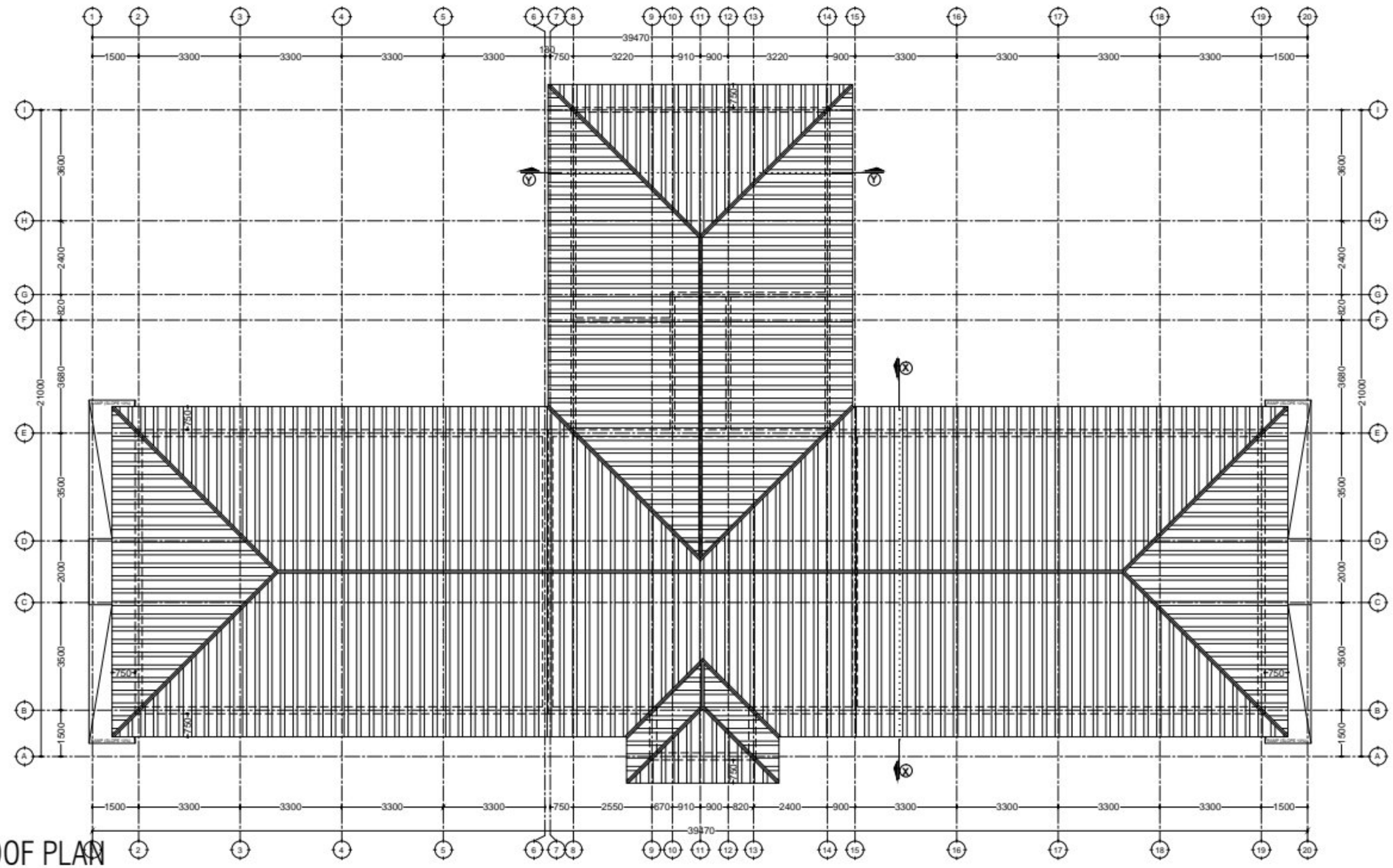


GROUND PLAN

SCALE: 1:100

TOTAL AREA = 432sqm

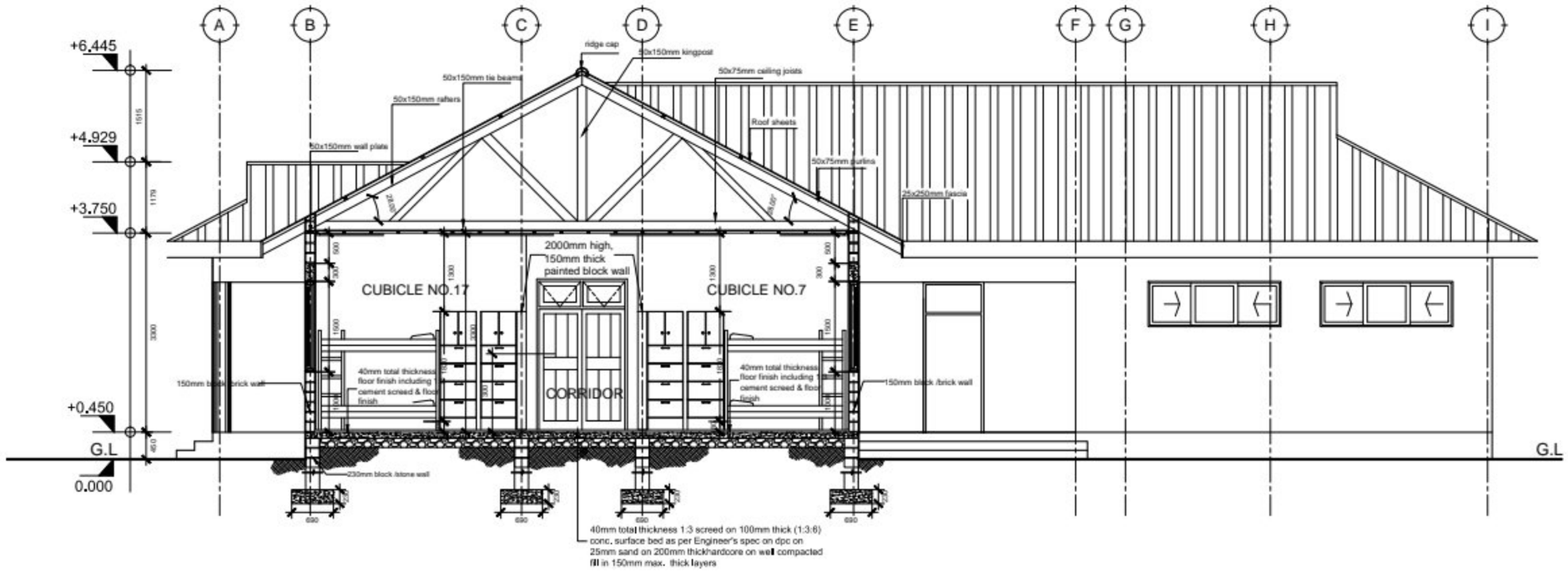
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY *IN COLABORATION WITH* **PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS** **FOR** **SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM (SEQUIP)**	DRAWING TITLE: **80 STUDENTS DORMITORY** **FLOOR PLAN** DRAWING NO: **SQP/ARC/DORM - 1/06**	**DRAWN BY J.R** **CHECKED BY I.S** SCALE 1;100 *JUNE,2023*



ROOF PLAN

SCALE: 1:100

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY *IN COLABORATION WITH* **PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS** **FOR** **SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM (SEQUIP)**	DRAWING TITLE: **80 STUDENTS DORMITORY** **ROOF PLAN** DRAWING NO: **SQP/ARC/DORM - 2/06**	**DRAWN BY J.R** **CHECKED BY I.S** SCALE 1;100 *JUNE,2023*

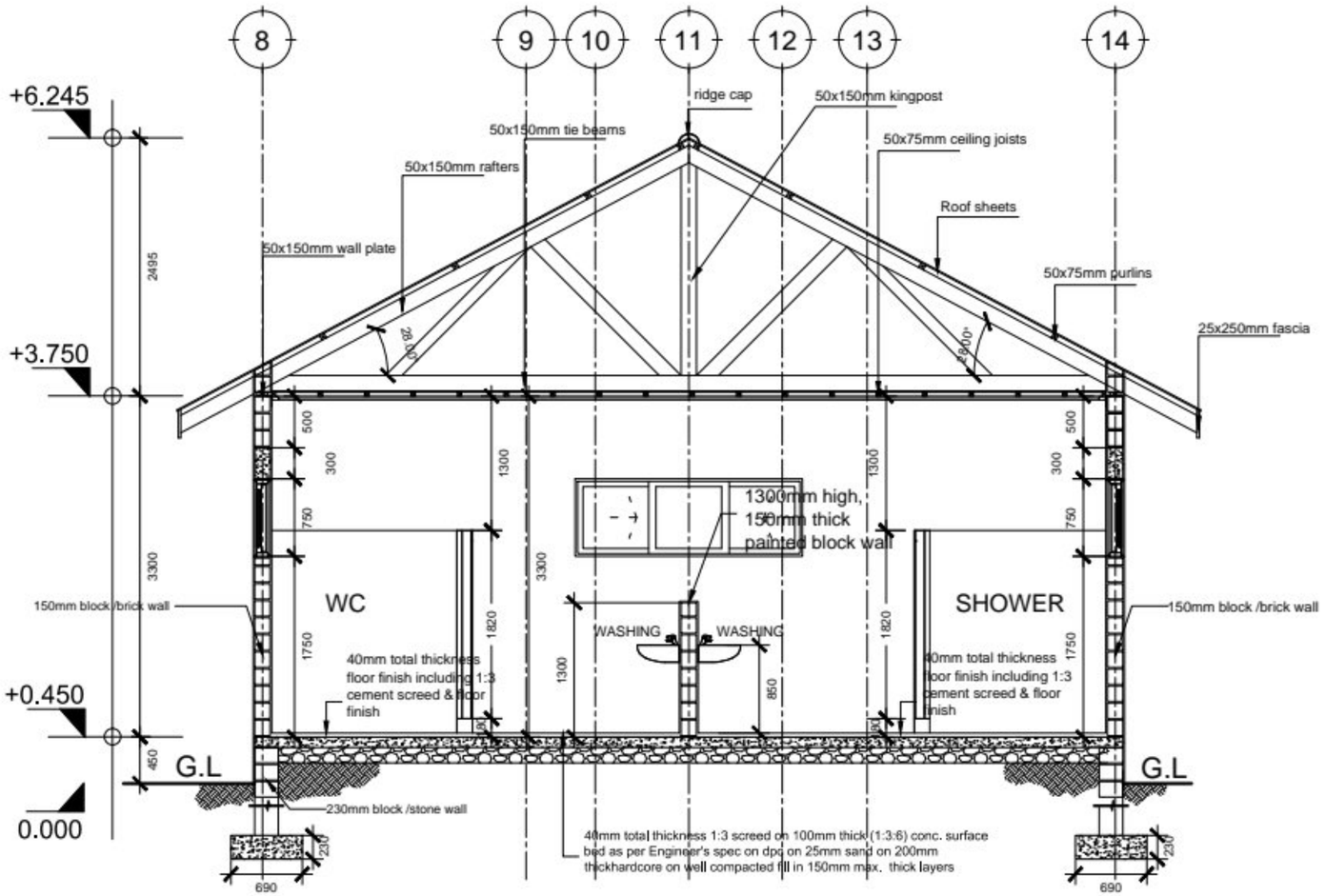


SECTION Y:Y

SCALE: 1:75

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY *IN COLABORATION WITH* **PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS** **FOR** **SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM (SEQUIP)**	DRAWING TITLE: **80 STUDENTS DORMITORY** **SECTION Y:Y** DRAWING NO: **SQP/ARC/DORM - 3/06**	**DRAWN BY J.R** **CHECKED BY I.S** SCALE 1;75 *JUNE,2023*

DOOR & WINDOW SCHEDULE			
NO.	WIDTH	HEIGHT	TOTAL
D1	1500mm	2500mm	4
D2	1000mm	2500mm	3
D3	1000mm	1820mm	1
D4	800mm	1820mm	9
W1	1500mm	1500mm	20
W1	2200mm	750mm	5

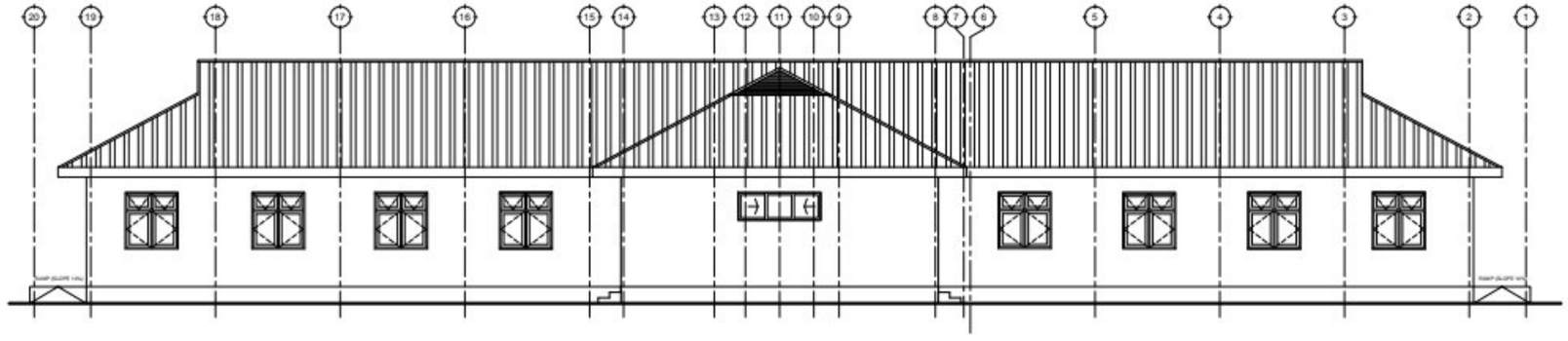


SECTION X:X

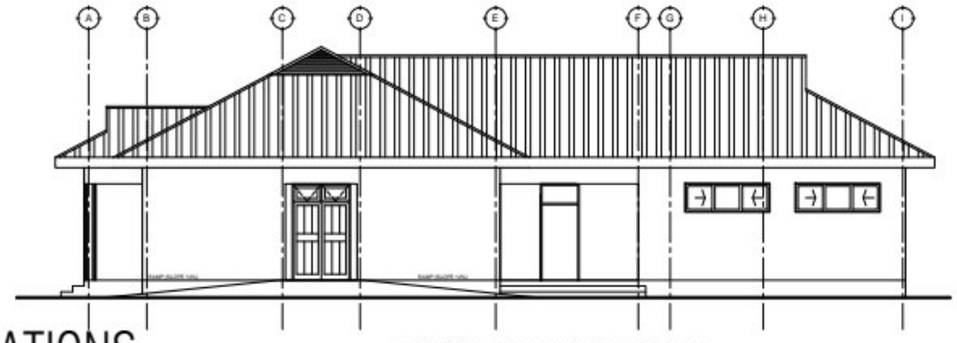
SCALE: 1:50

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY ***IN COLABORATION WITH*** **PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS** **FOR** **SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM (SEQUIP)**	DRAWING TITLE: **80 STUDENTS DORMITORY** **SECTION X:X** DRAWING NO: **SQP/ARC/DORM - 4/06**	**DRAWN BY J.R** **CHECKED BY I.S** SCALE 1;50 *JUNE,2023*

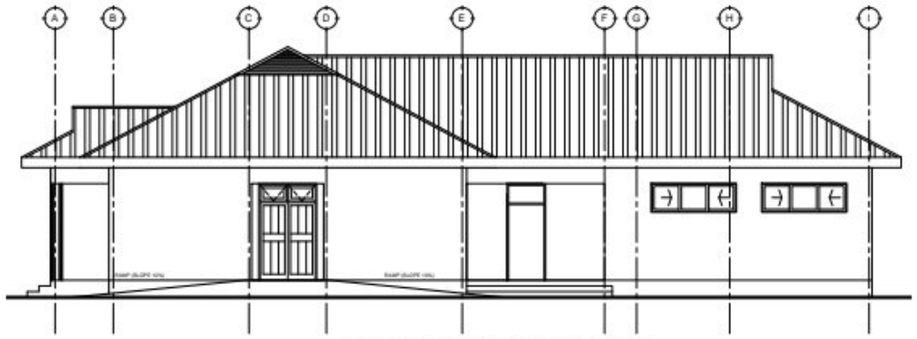
FRONT ELEVATION



FRONT ELEVATION



RIGHT SIDE ELEVATION

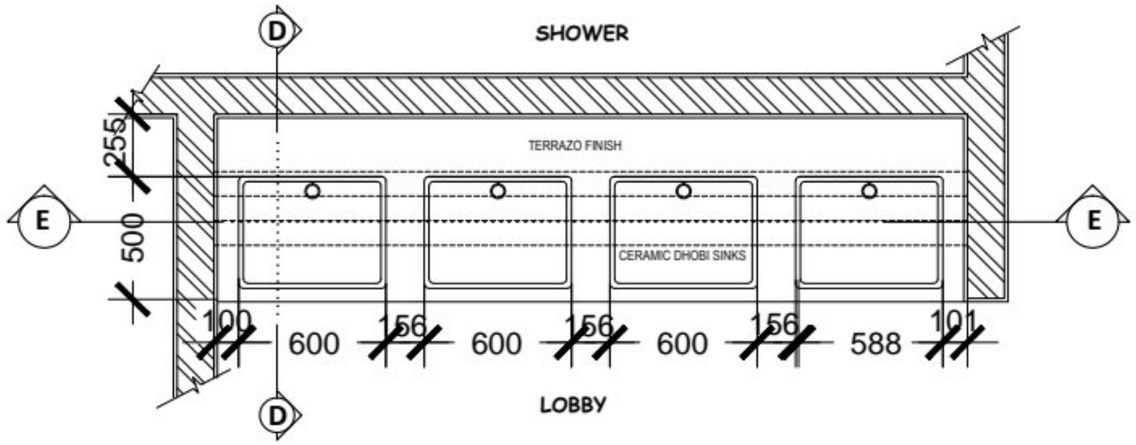


RIGHT SIDE ELEVATION

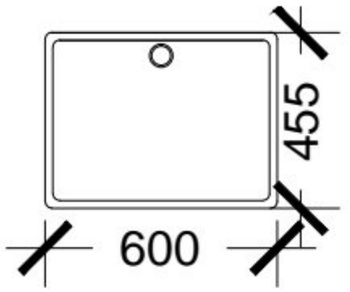
ELEVATIONS

SCALE: 1:100

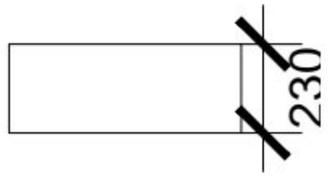
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY *IN COLABORATION WITH* **PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS** **FOR** **SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM (SEQUIP)**	DRAWING TITLE: **80 STUDENTS DORMITORY** **ELEVATIONS** DRAWING NO: **SQP/ARC/DORM - 5/06**	**DRAWN BY J.R** **CHECKED BY I.S** SCALE 1;50 *JUNE,2023*



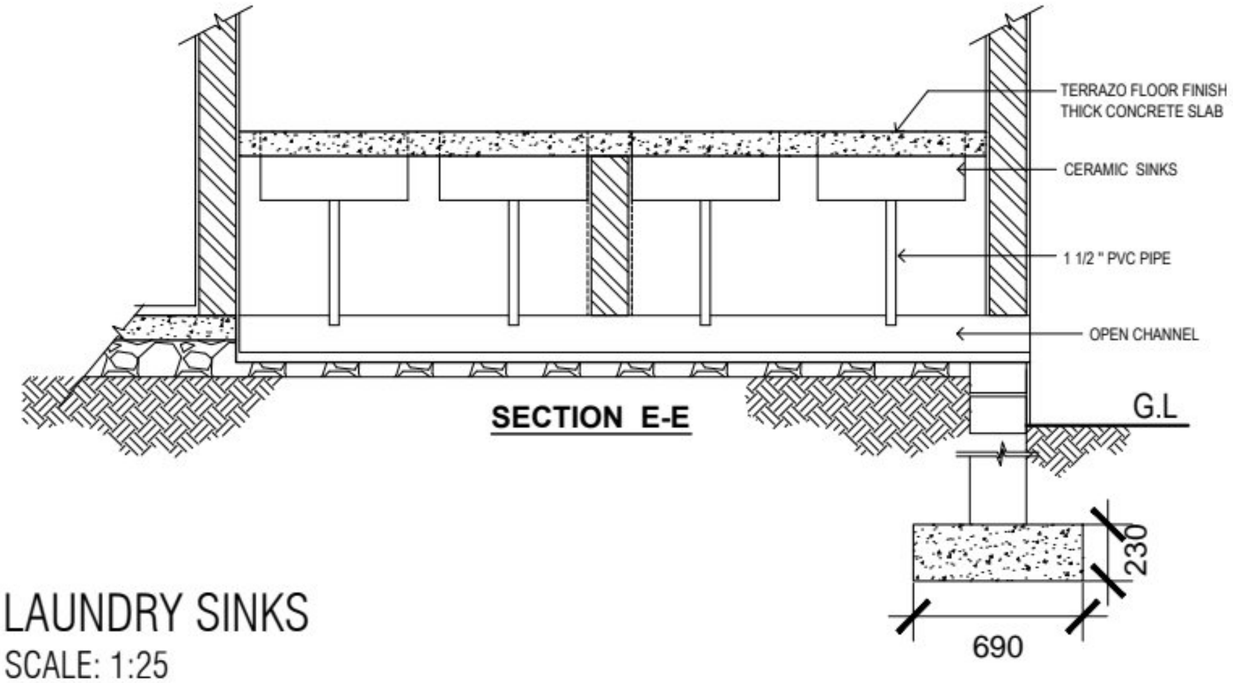
LAUNDRY SINKS LAYOUT PLAN



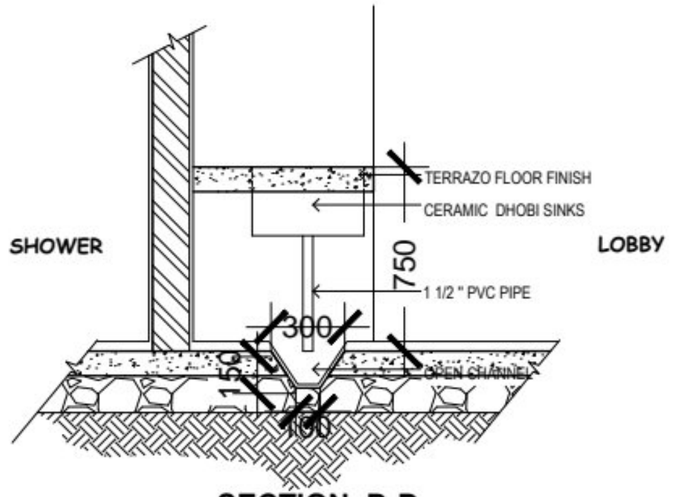
SINK PLAN



SINK ELEVATION



SECTION E-E



SECTION D-D

LAUNDRY SINKS

SCALE: 1:25

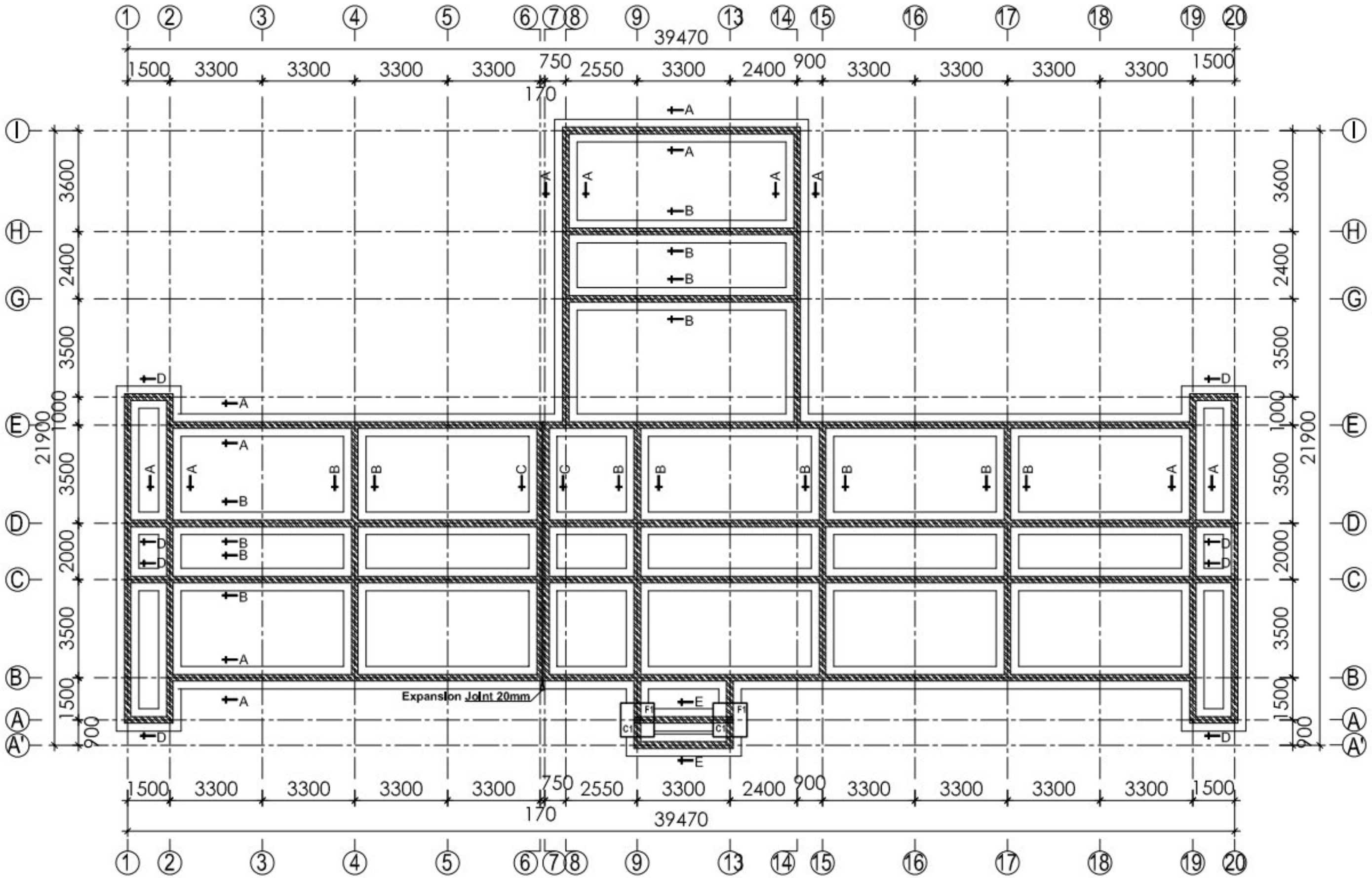
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY *IN COLABORATION WITH* **PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS** **FOR** **SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM (SEQUIP)**	DRAWING TITLE: **80 STUDENTS DORMITORY** **LAUNDRY SINKS LAYOUT** DRAWING NO: **SQP/ARC/DORM - 6/06**	**DRAWN BY J.R** **CHECKED BY I.S** SCALE 1;25 *JUNE,2023*

STRUCTURAL DRAWINGS

STRUCTURAL DRAWINGS

FOR

80 STUDENTS DORMITORY BLOCK



FOUNDATION LAYOUT PLAN
Scale 1:100

NOTE:

1. All dimensions are in millimetres unless otherswise 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 25 - Nominal volumetric proportion 1: 1.5: 3 cube strength not less than 25N/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.
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 shal comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:
   - Slabs 20mm
   - 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/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:

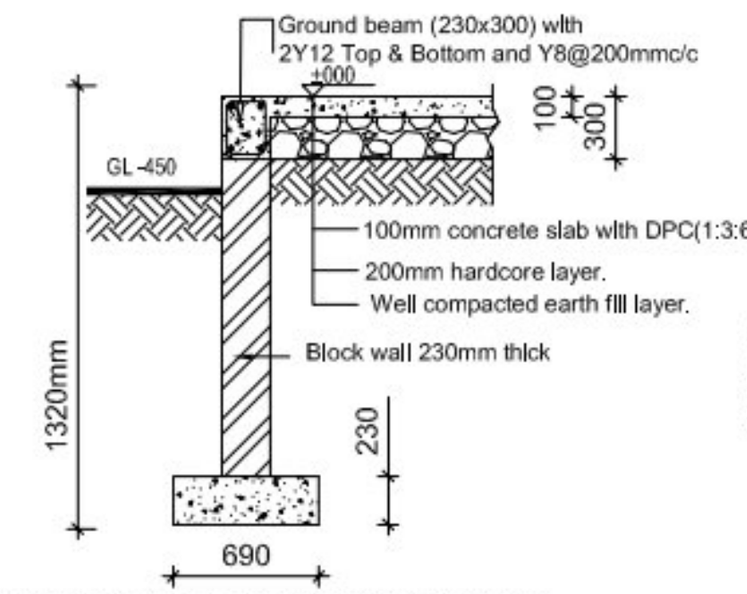
80 STUDENTS DORMITORY BLOCK

FOUNDATION LAYOUT PLAN

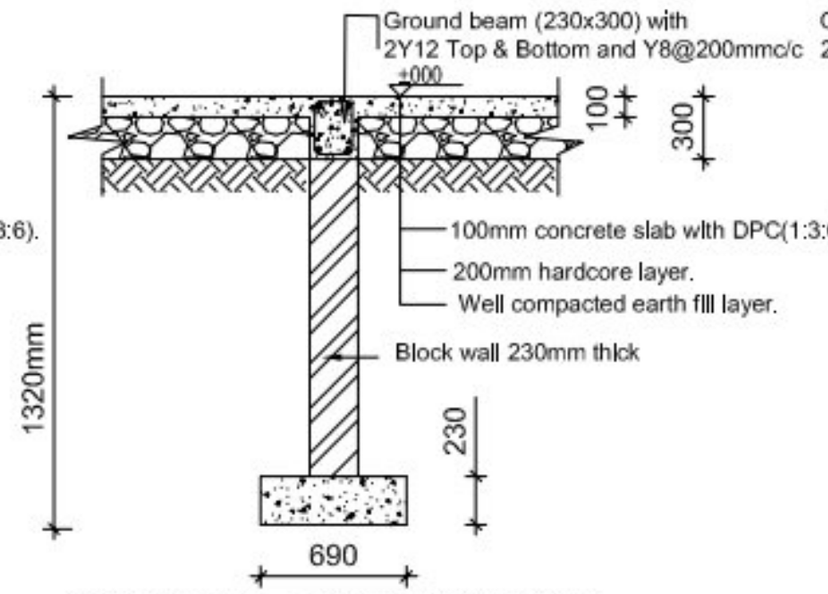
(**REVISED -1**)

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

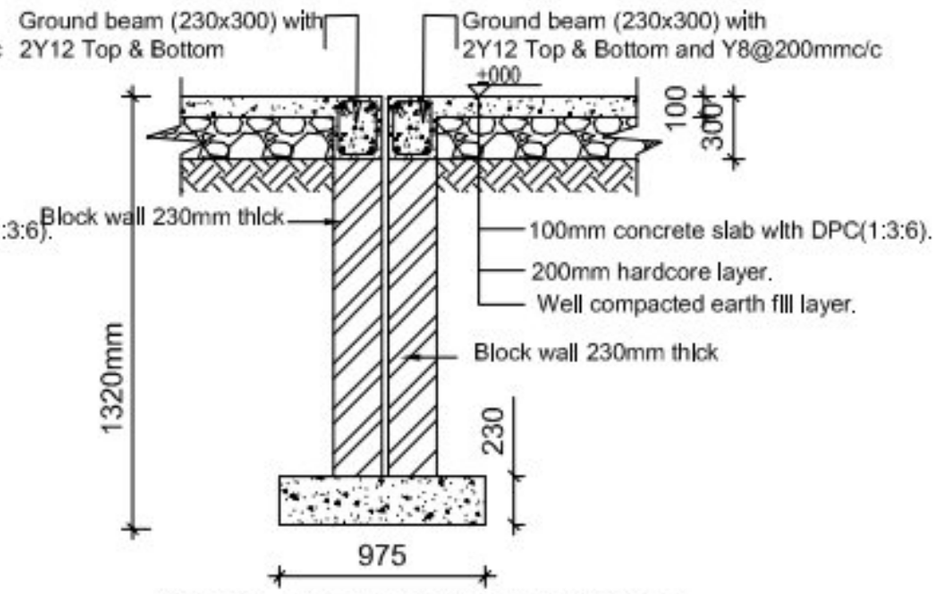
Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 01/14



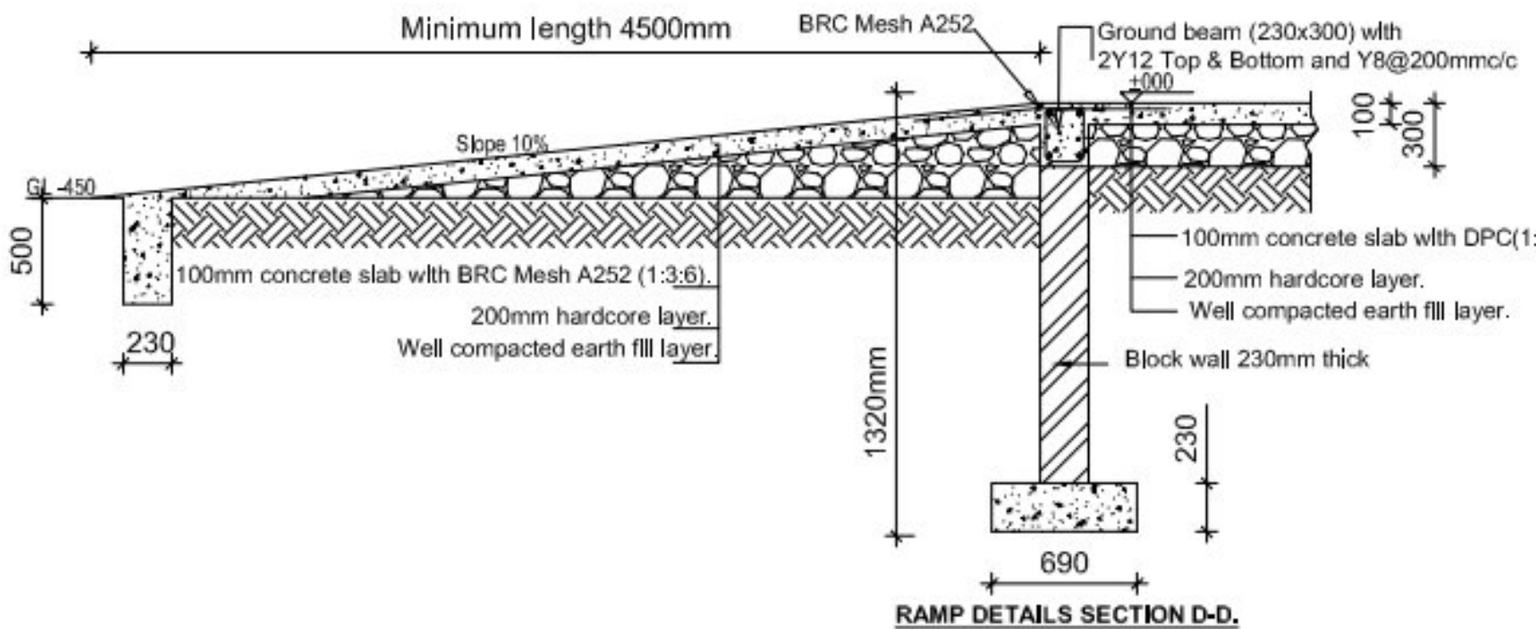
EXTERIOR WALL FOUNDATION SECTION A-A.
Scale 1:50



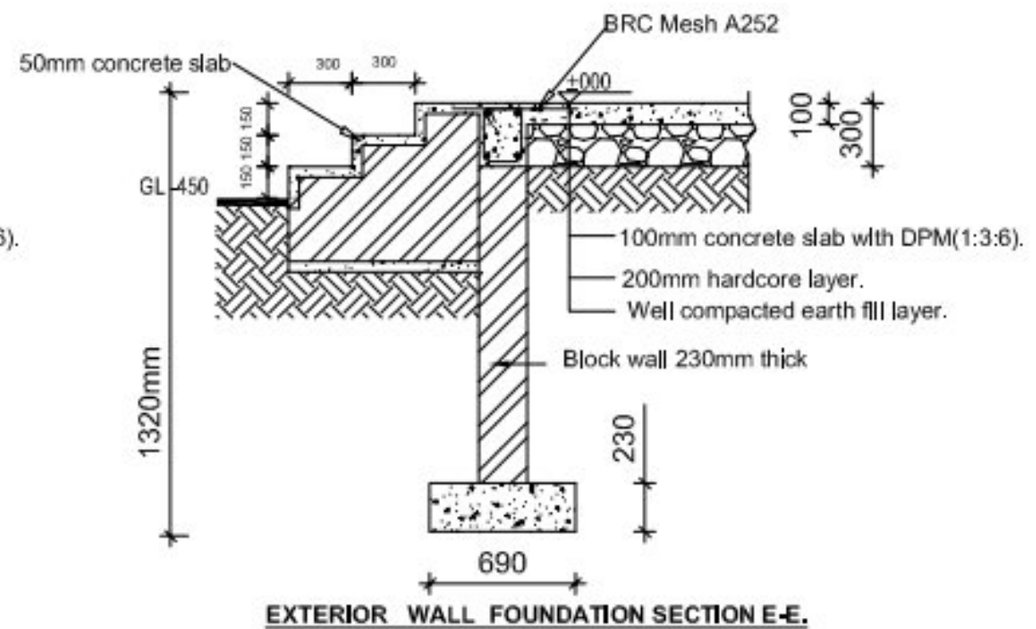
INTERIOR WALL FOUNDATION SECTION B-B.
Scale 1:50



INTERIOR WALL FOUNDATION SECTION C-C.
Scale 1:50



RAMP DETAILS SECTION D-D.
Scale 1:50



EXTERIOR WALL FOUNDATION SECTION E-E.
Scale 1:50

NOTE:

1. All dimensions are in millimetres unless otherswise 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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   - Slabs 20mm
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   - Columns 25mm
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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:

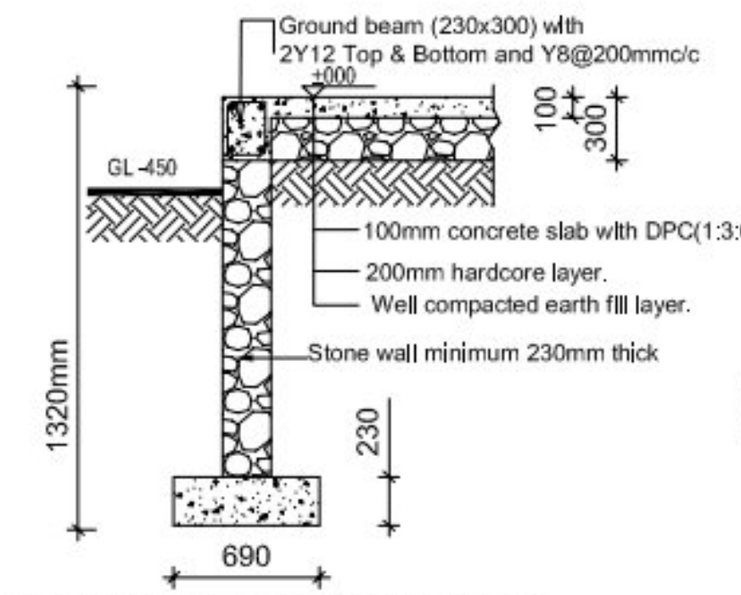
80 STUDENTS DORMITORY BLOCK

FOUNDATION SECTION DETAILS

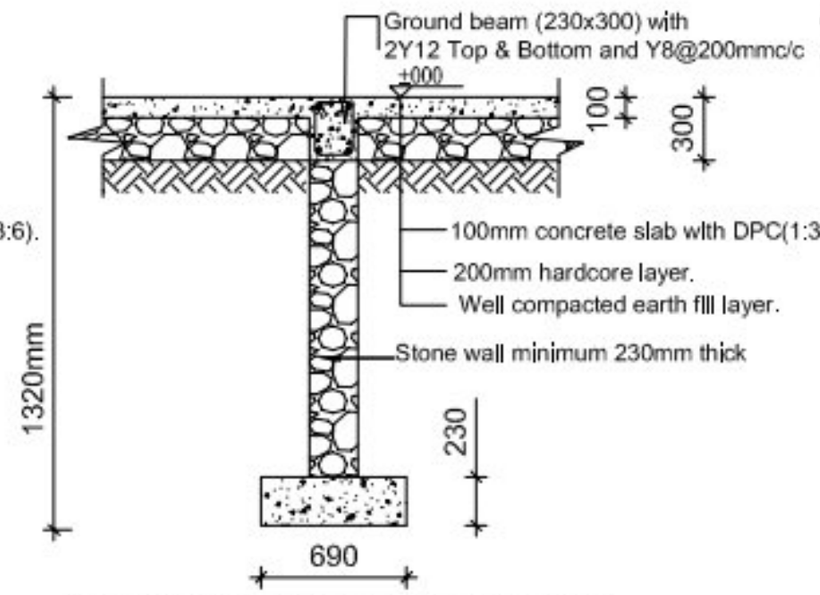
(**REVISED -1**)

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

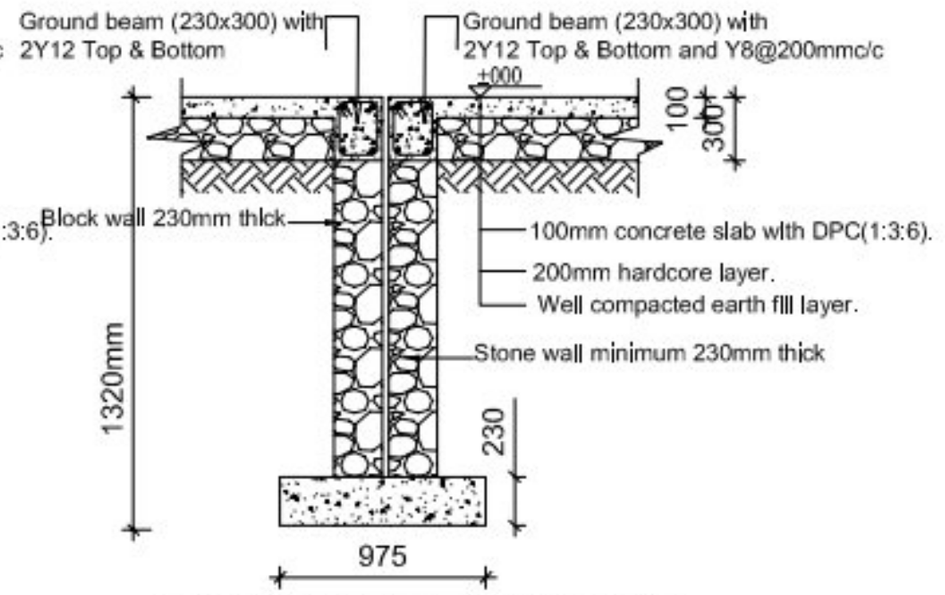
Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 02/14



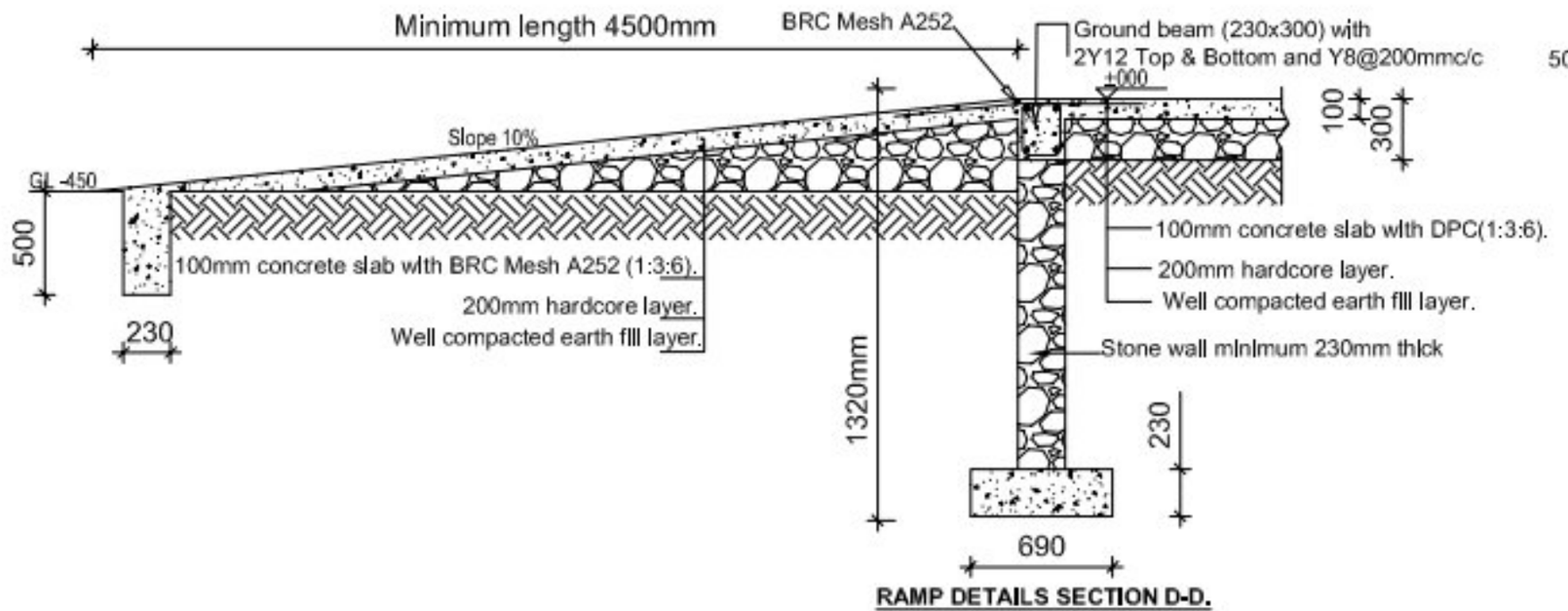
EXTERIOR WALL FOUNDATION SECTION A-A.
Scale 1:50



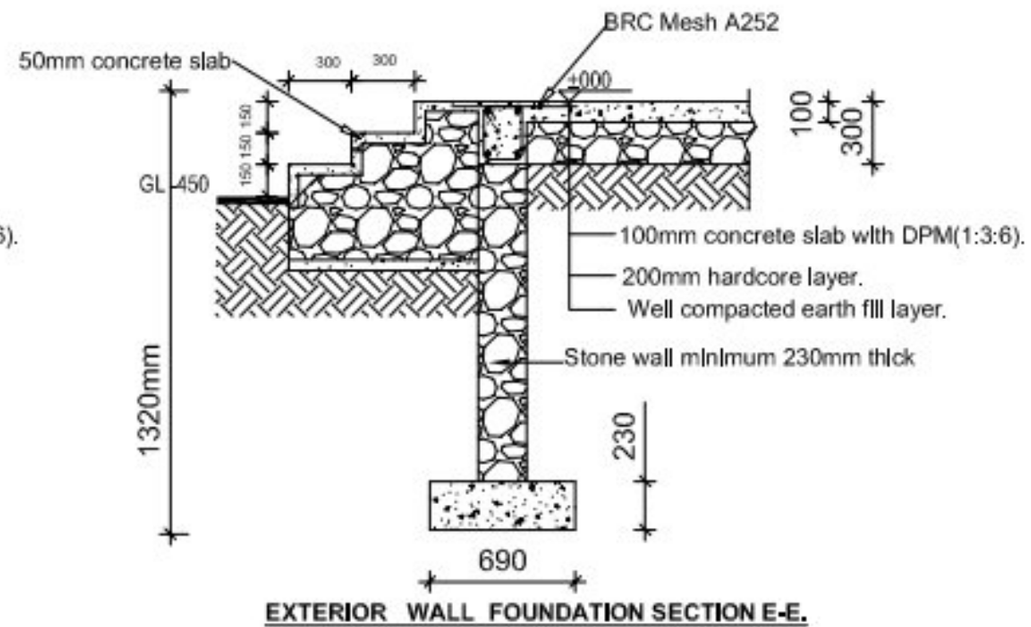
INTERIOR WALL FOUNDATION SECTION B-B.
Scale 1:50



INTERIOR WALL FOUNDATION SECTION C-C.
Scale 1:50



RAMP DETAILS SECTION D-D.
Scale 1:50



EXTERIOR WALL FOUNDATION SECTION E-E.
Scale 1:50

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:

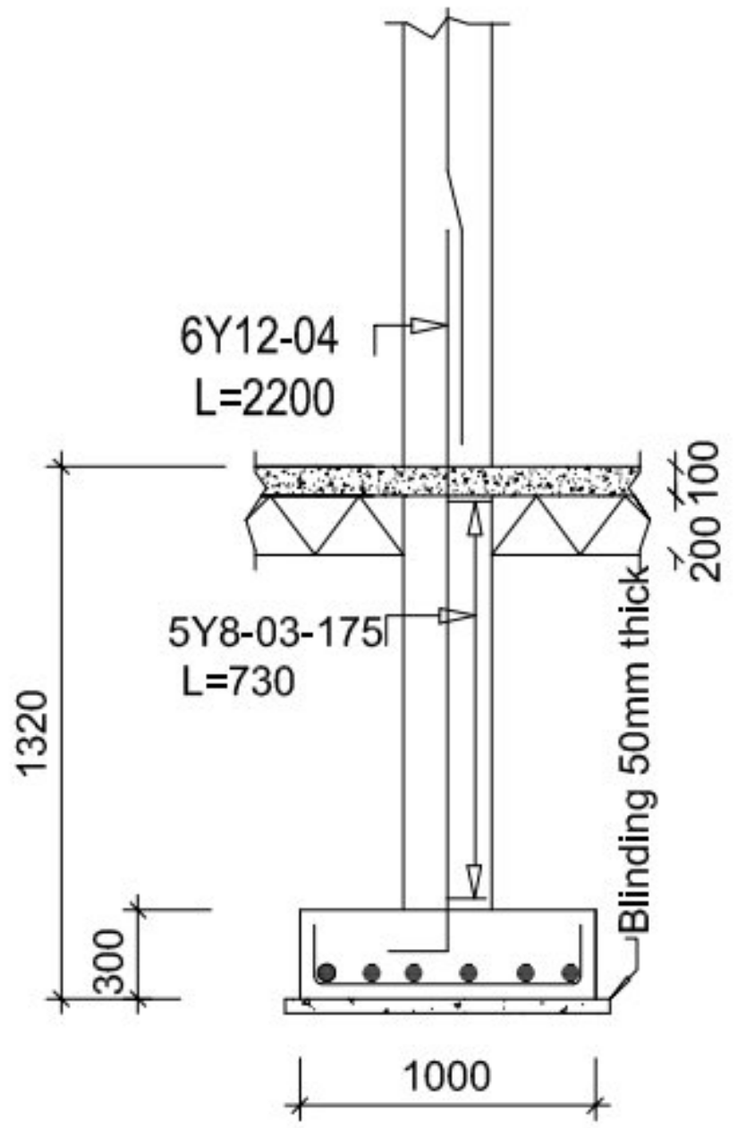
80 STUDENTS DORMITORY BLOCK

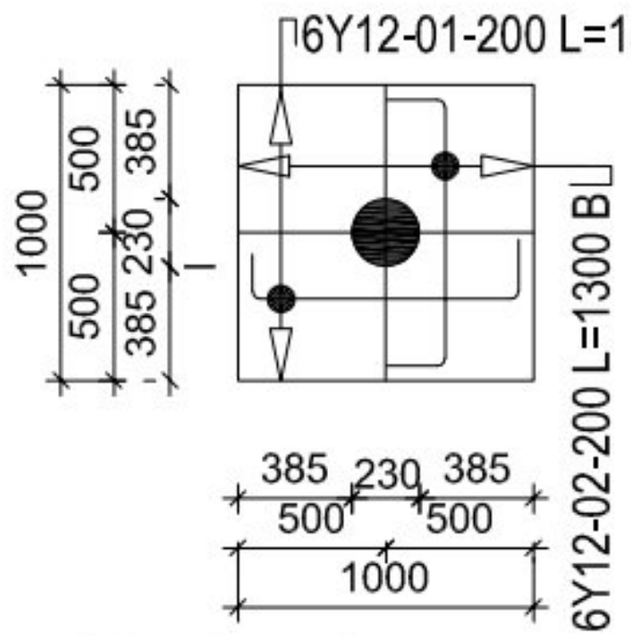
FOUNDATION SECTION DETAILS

(**REVISED -1**)

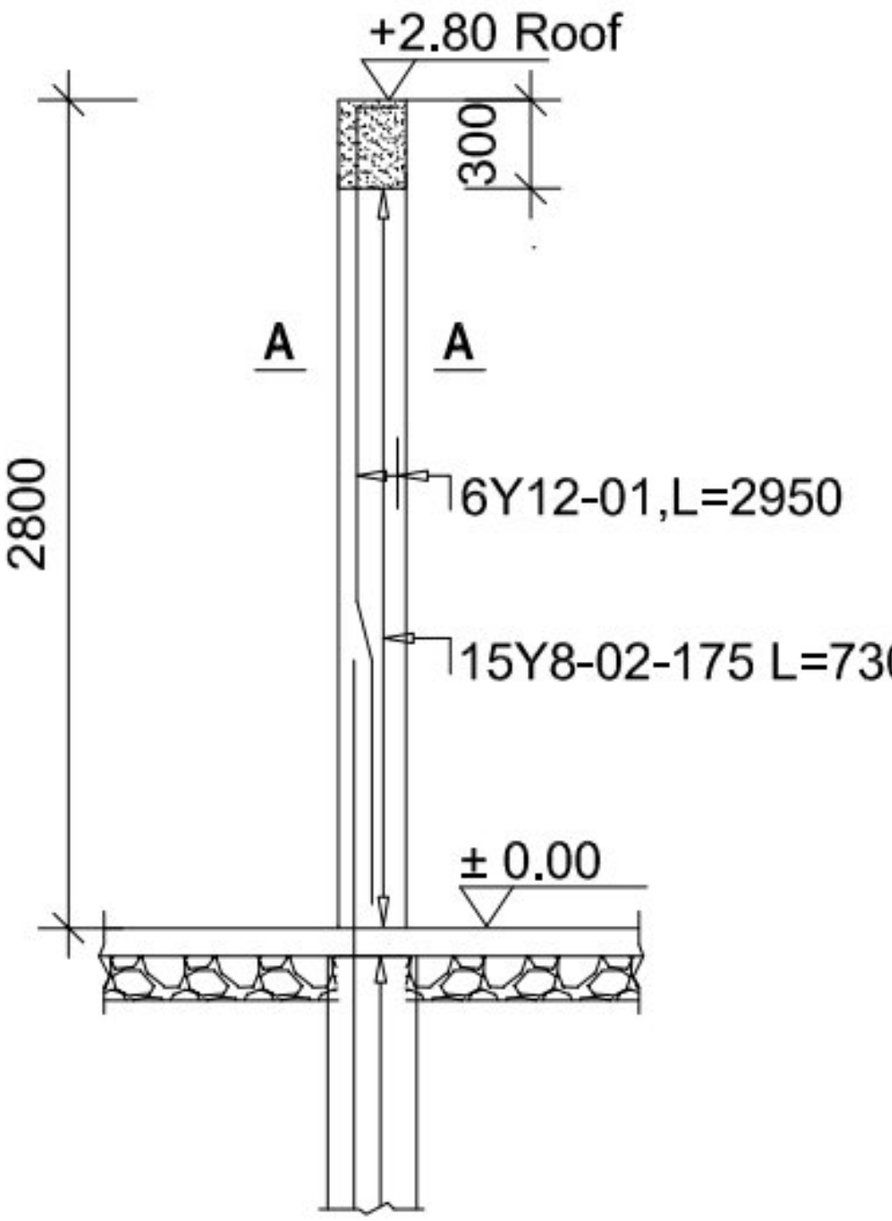
DRAWING USE:
For Building permit: ☐
For Construction: ☑

Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No: STR.DM	Sheet: 03/14





FOOTING F1 (1000x1000x300) 2Nos.
Scale 1:50



COLUMN C1(DIA- 230), 2Nos
Scale 1:100

Section A - A
Scale 1:25

NOTE:

1. All dimensions are in millimetres unless otherswise 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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8. Clear cover for reinforcement shall be as follows:
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   - 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/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:

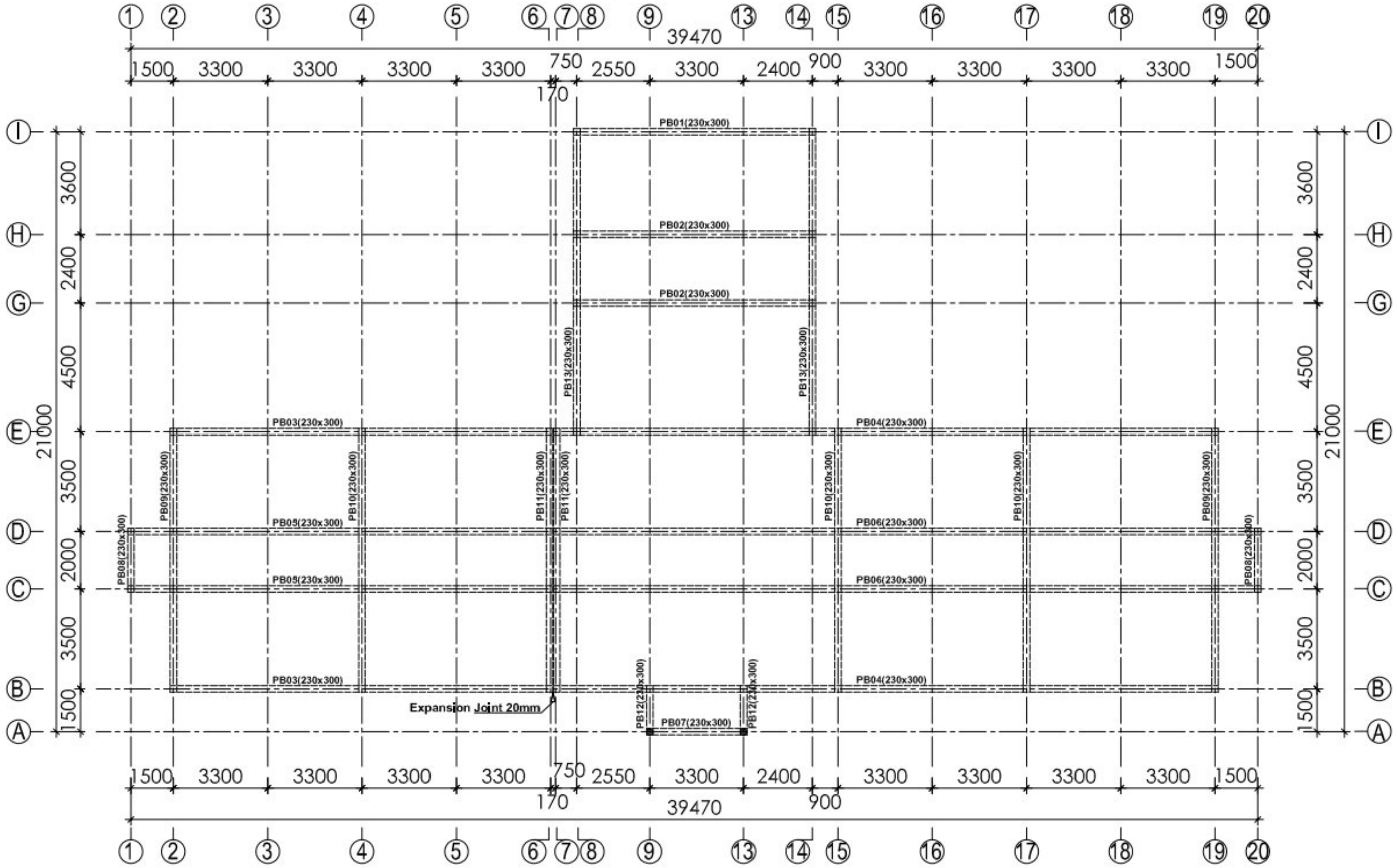
DRAWING TITLE:
80 STUDENTS DORMITORY BLOCK

COLUMN FOOTINGS AND COLUMN SECTION DETAILS

(**REVISED -1**)

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

Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No: STR.DM	Sheet: 04/14



PLINTH BEAMS LAYOUT PLAN
Scale 1:100

NOTE:

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

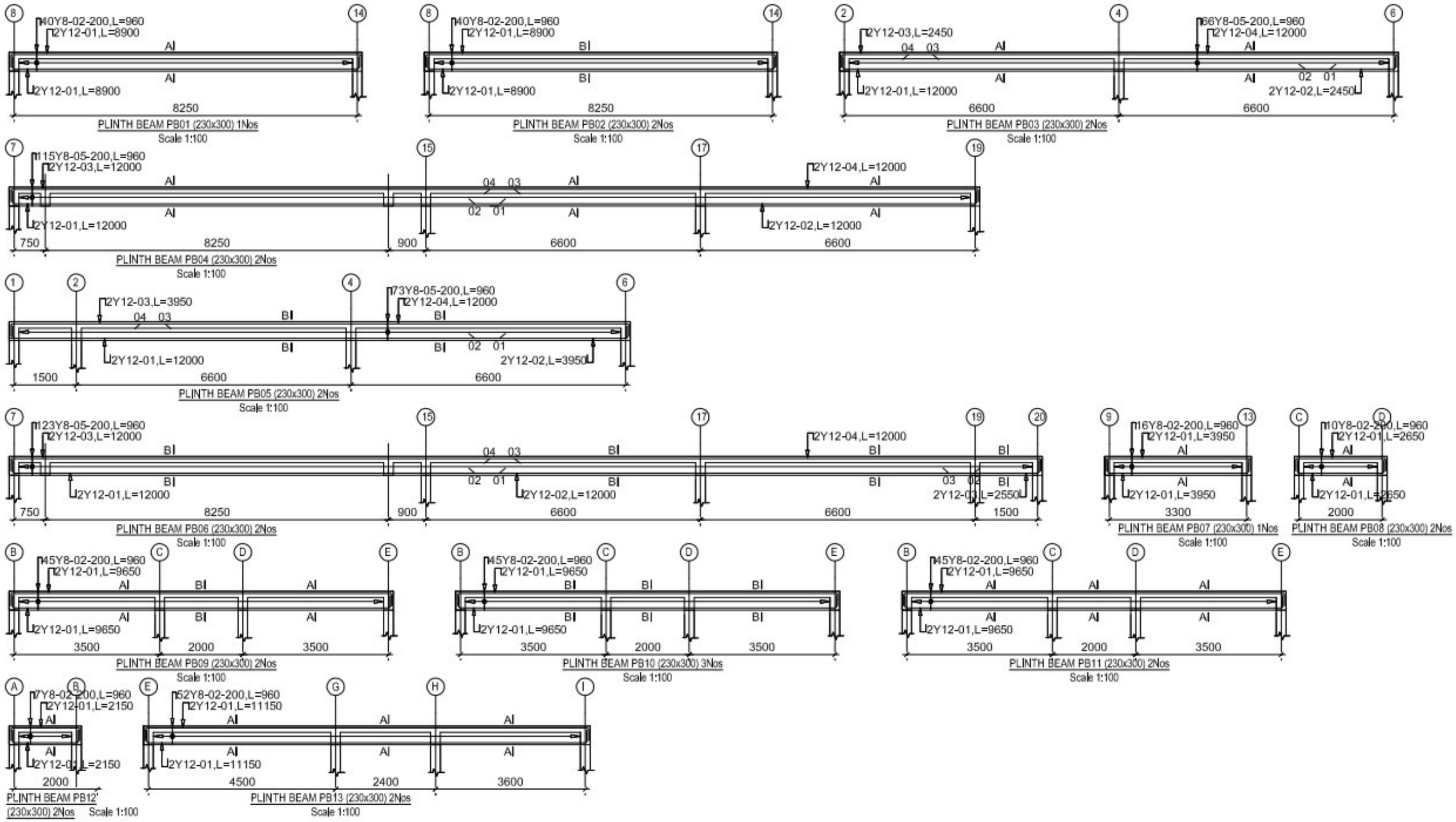
DRAWING TITLE:
80 STUDENTS DORMITORY BLOCK

PLINTH BEAMS LAYOUT PLAN

(**REVISED -1**)

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

Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 05/14



NOTE:

1. All dimensions are in millimetres unless otherswise 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 25 - Nominal volumetric proportion 1: 1.5: 3 cube strength not less than 25N/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.
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 shal comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:
   - Slabs 20mm
   - 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/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.

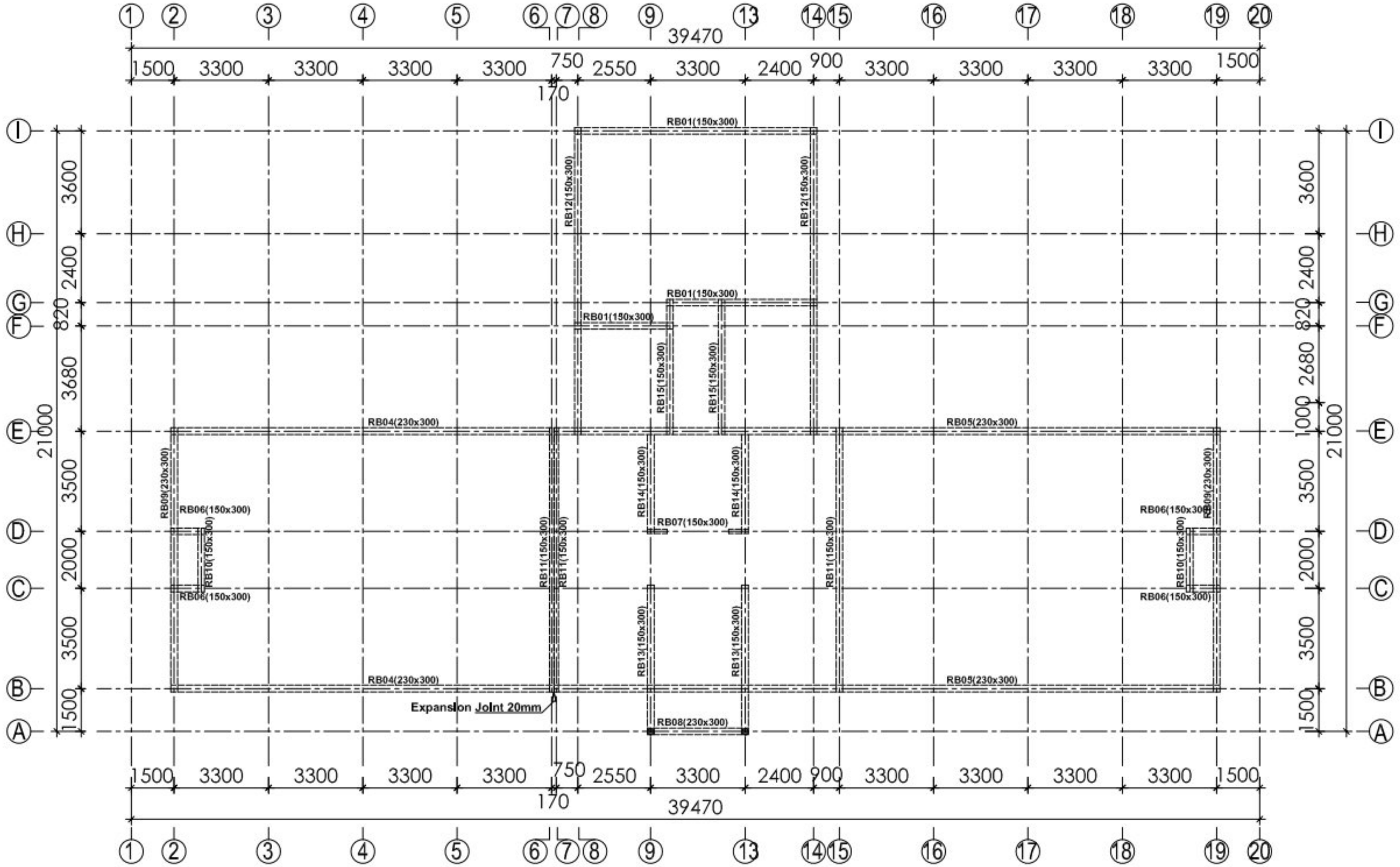
Designed by: ENG. J.M.S
Checked by: ENG. R.A.M
Approved by:

DRAWING TITLE:
80 STUDENTS DORMITORY BLOCK

PLINTH BEAMS DETAILS
(**REVISED -1**)

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

Drawn by: J.M.S	
Date: June, 2023	Scale:
Drawing No: STR.DM	Sheet: 06/14



ROOF RING BEAMS LAYOUT PLAN
Scale 1:100

NOTE:

1. All dimensions are in millimetres unless otherswise 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 25 - Nominal volumetric proportion 1: 1.5: 3 cube strength not less than 25N/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.

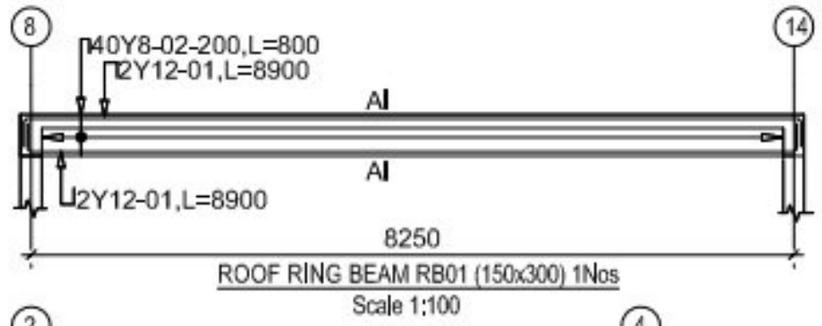
Designed by: ENG. J.M.S
Checked by: ENG. R.A.M
Approved by:

DRAWING TITLE:
80 STUDENTS DORMITORY BLOCK

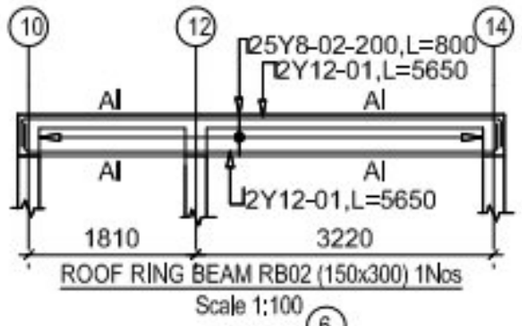
ROOF RING BEAMS LAYOUT PLAN (**REVISED -1**)

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

Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 07/14



ROOF RING BEAM RB01 (150x300) 1Nos
Scale 1:100



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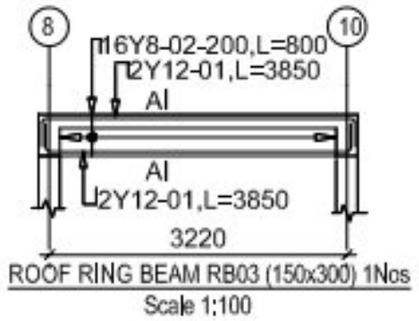
Scale 1:100



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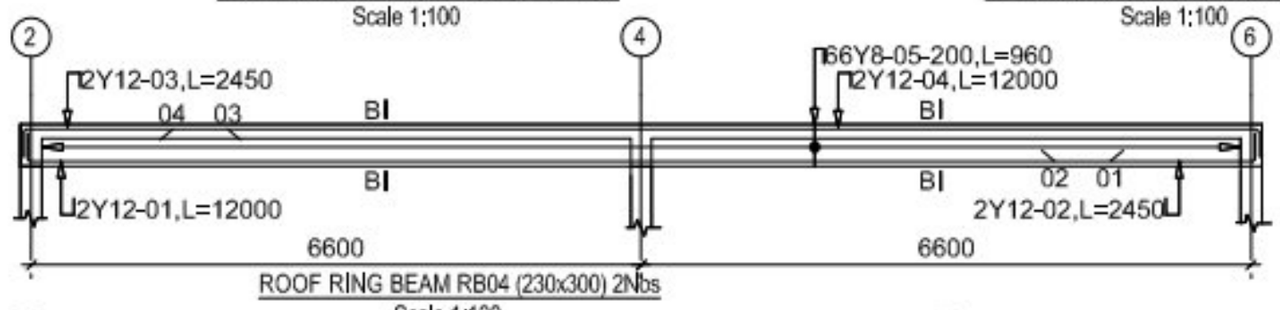
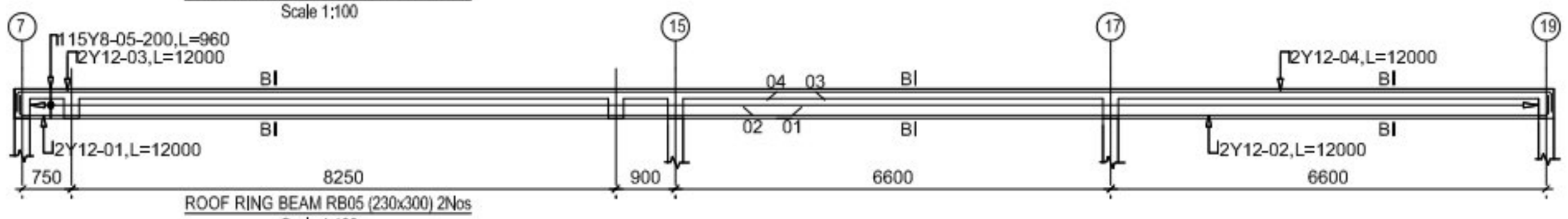
Scale 1:100



ROOF RING BEAM RB04 (230x300) 2Nos
Scale 1:100



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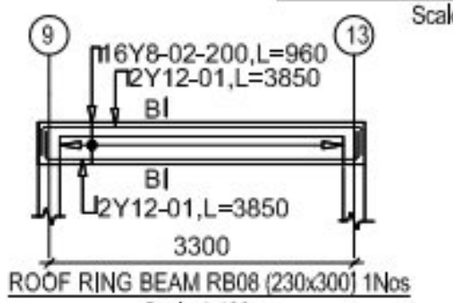
Scale 1:100



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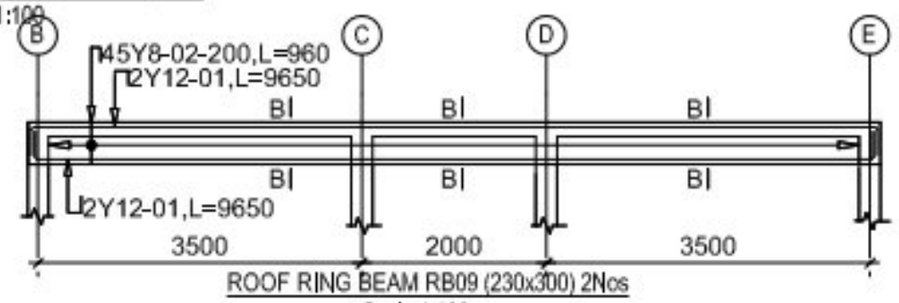
Scale 1:100



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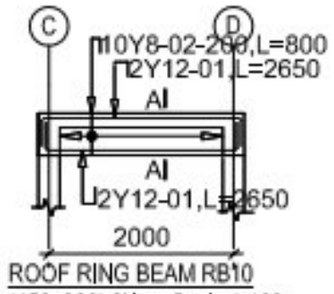
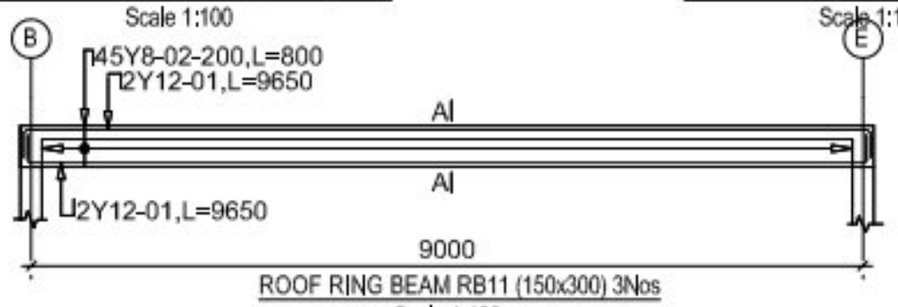


ROOF RING BEAM RB10
(150x300) 2Nos Scale 1:100



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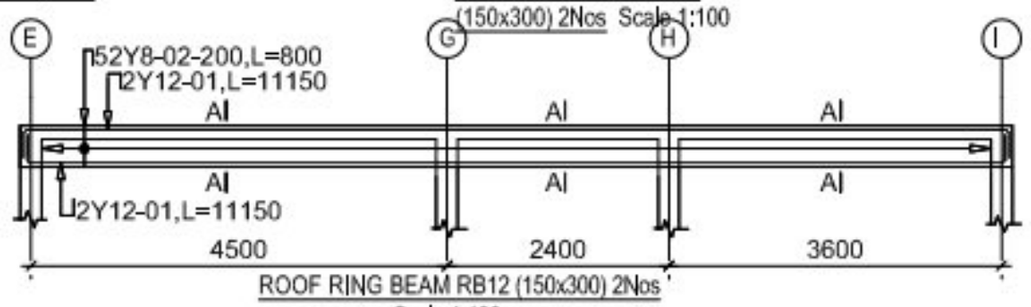

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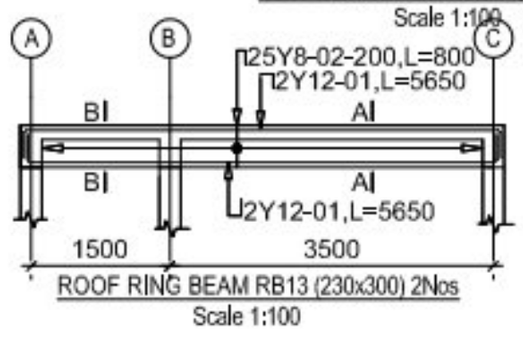
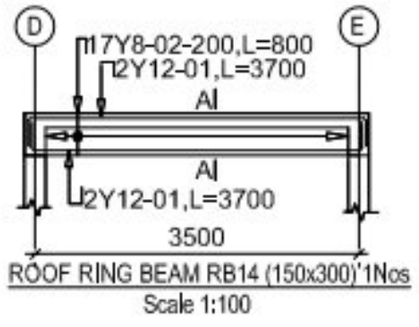
Scale 1:100



ROOF RING BEAM RB13 (230x300) 2Nos
Scale 1:100



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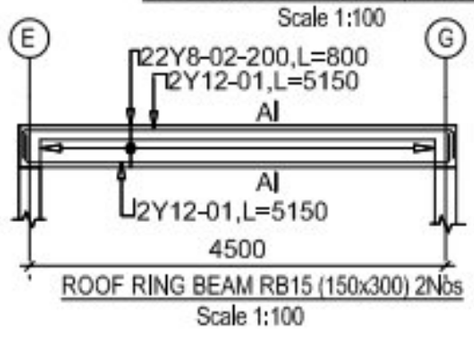
Scale 1:100



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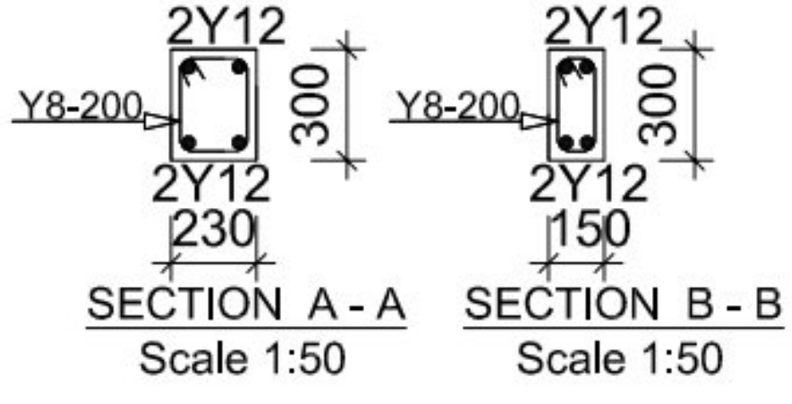
Scale 1:100



NOTE:

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

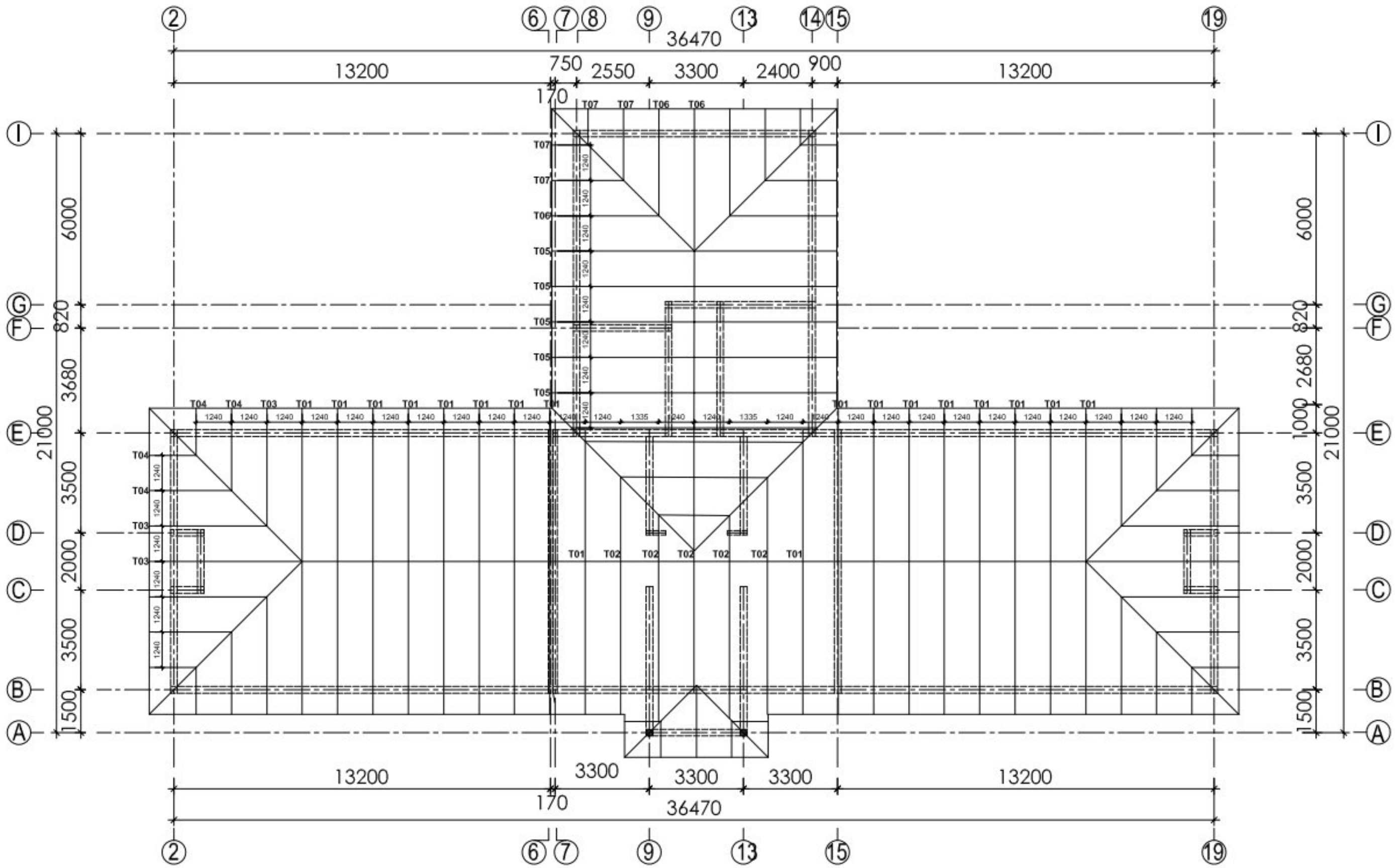
DRAWING TITLE:

80 STUDENTS DORMITORY BLOCK

ROOF RING BEAMS DETAILS
(**REVISED -1**)

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

Drawn by: J.M.S	
Date: June, 2023	Scale:
Drawing No: STR.DM	Sheet: 08/14



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.

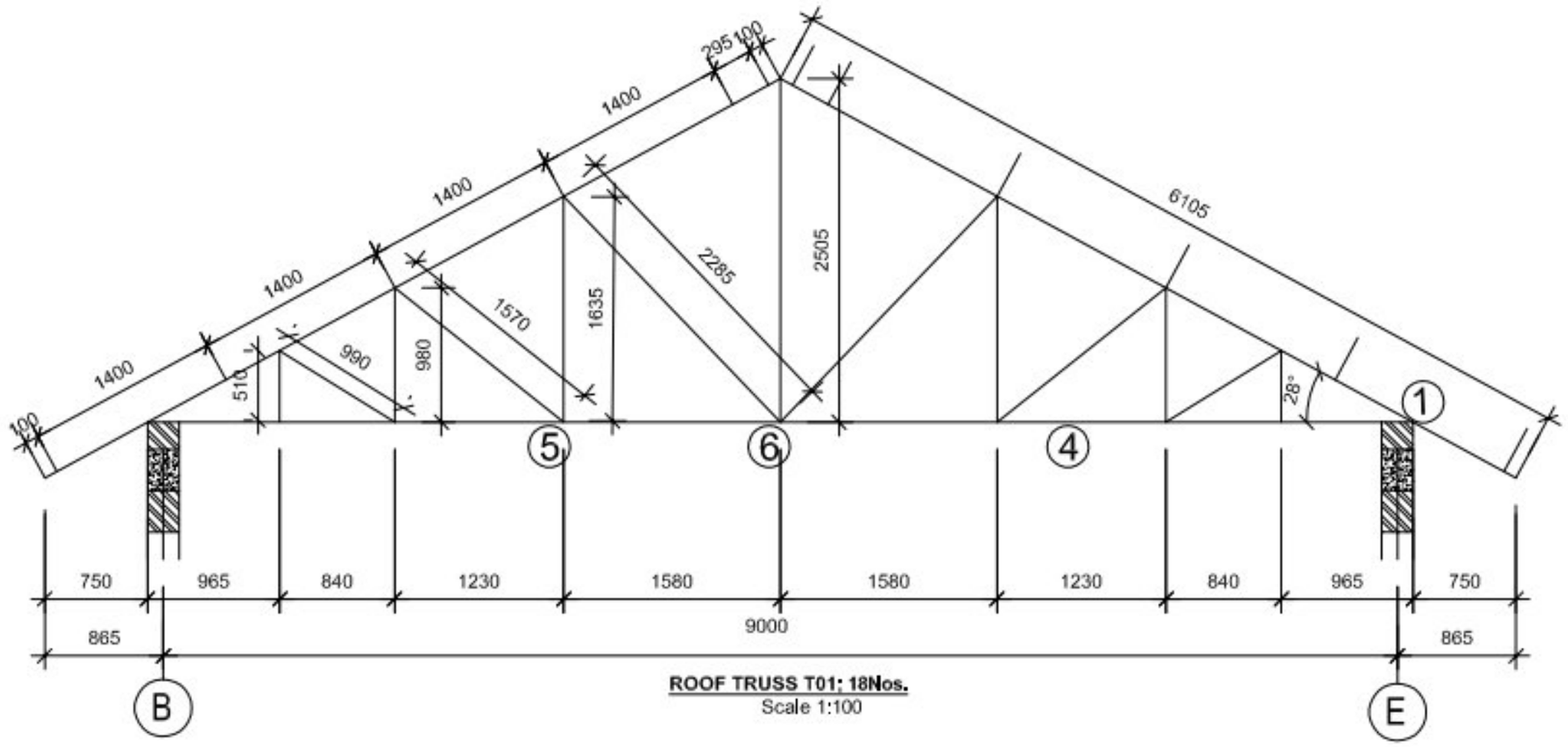
Designed by: ENG. J.M.S
Checked by: ENG. R.A.M
Approved by:

DRAWING TITLE:
80 STUDENTS DORMITORY BLOCK

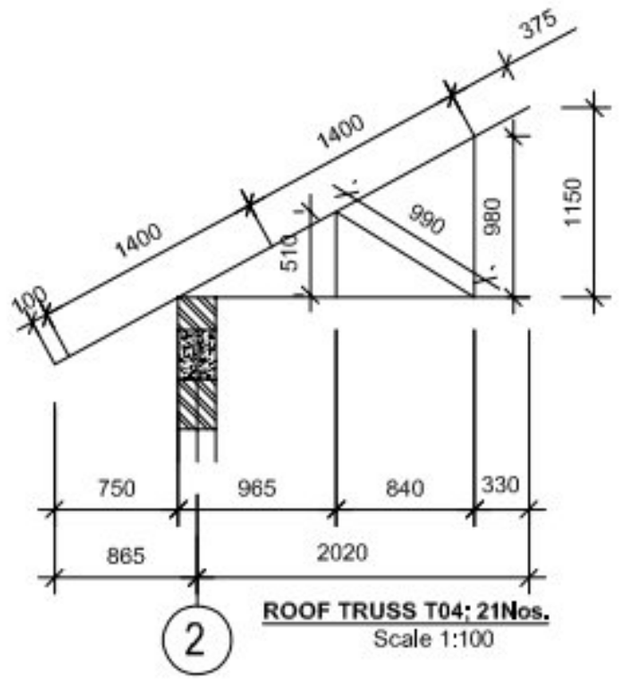
ROOF TRUSS LAYOUT PLAN
(**REVISED -1**)

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

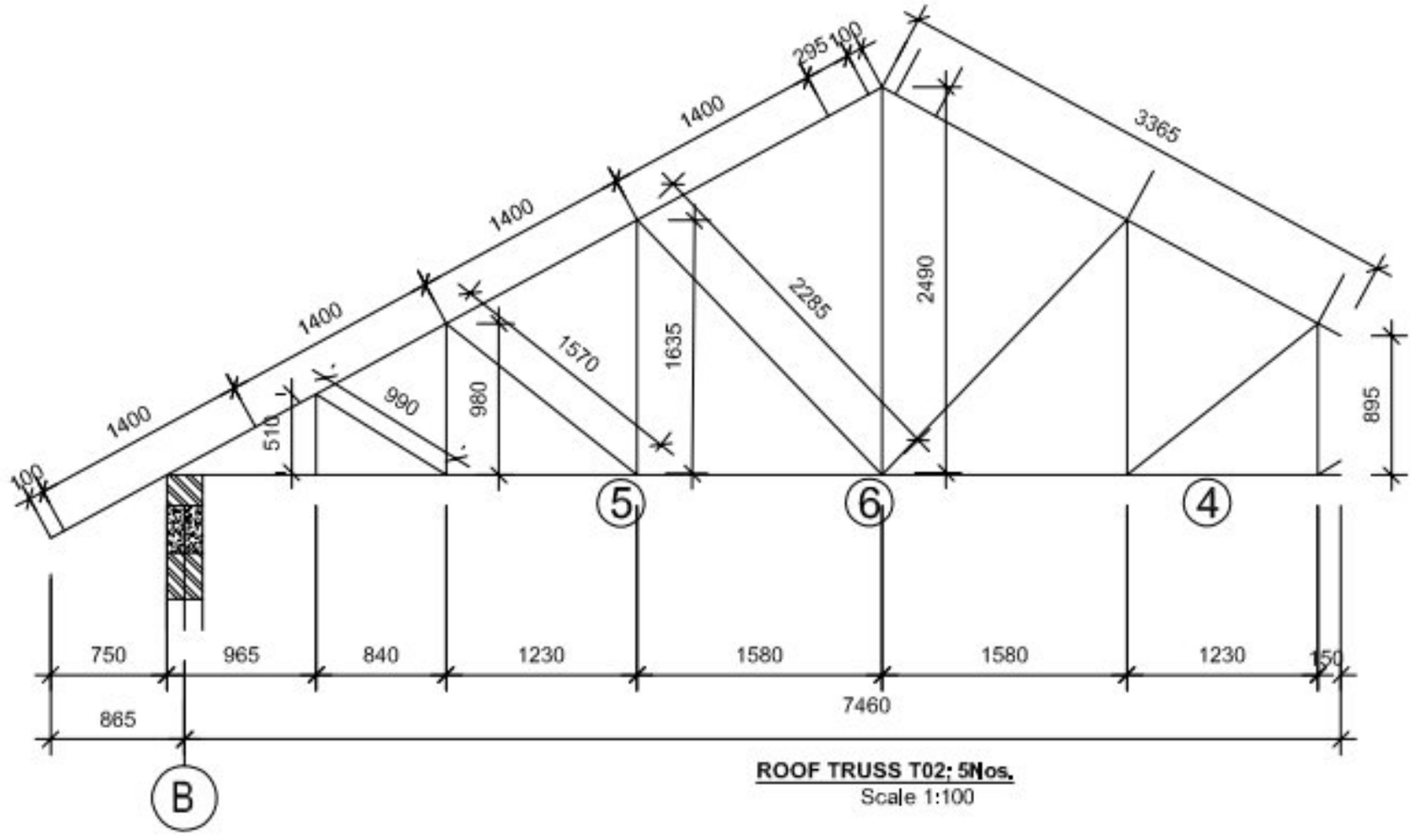
Drawn by: J.M.S	
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 09/14



ROOF TRUSS T01; 18Nos.
Scale 1:100



ROOF TRUSS T04; 21Nos.
Scale 1:100



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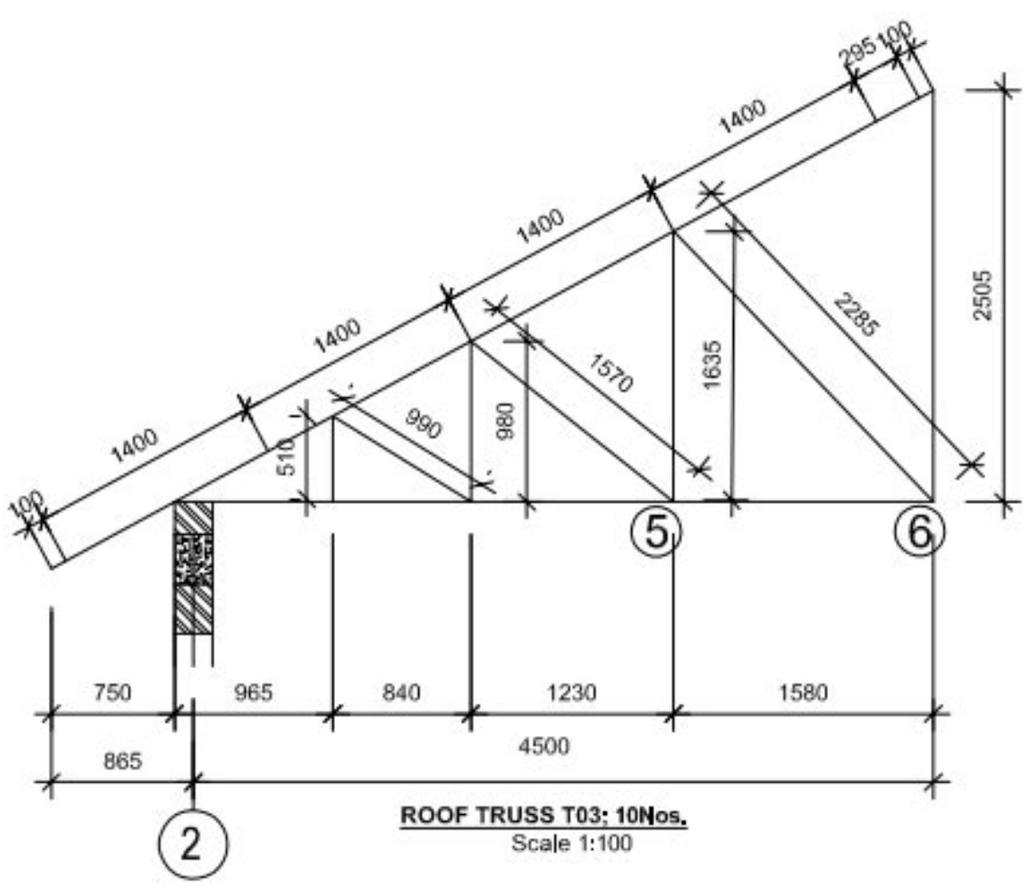
Scale 1:100



ROOF TRUSS T03; 10Nos.
Scale 1:100

NOTE:

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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.

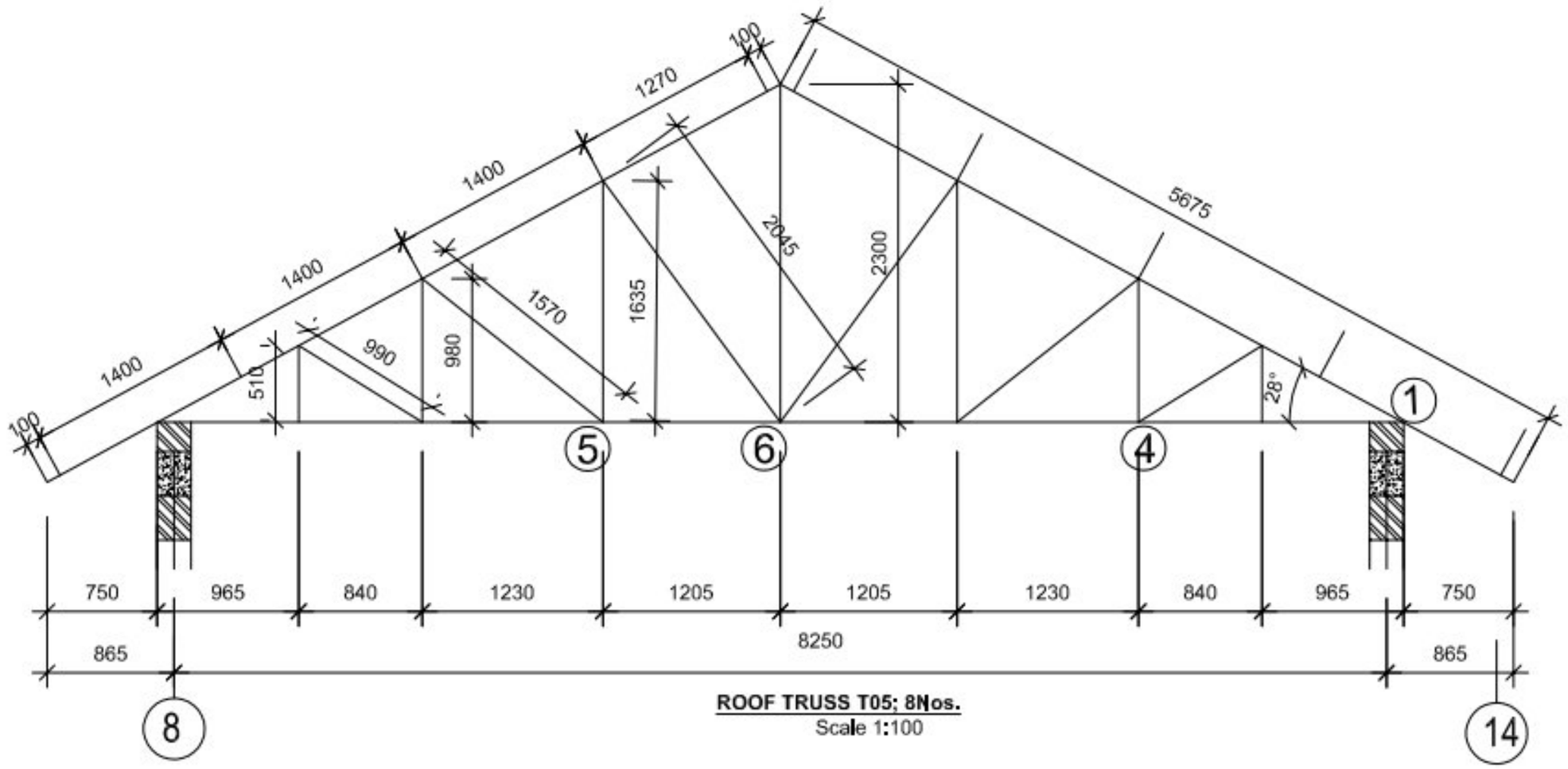
Designed by: ENG. J.M.S
Checked by: ENG. R.A.M
Approved by:

DRAWING TITLE:
80 STUDENTS DORMITORY BLOCK

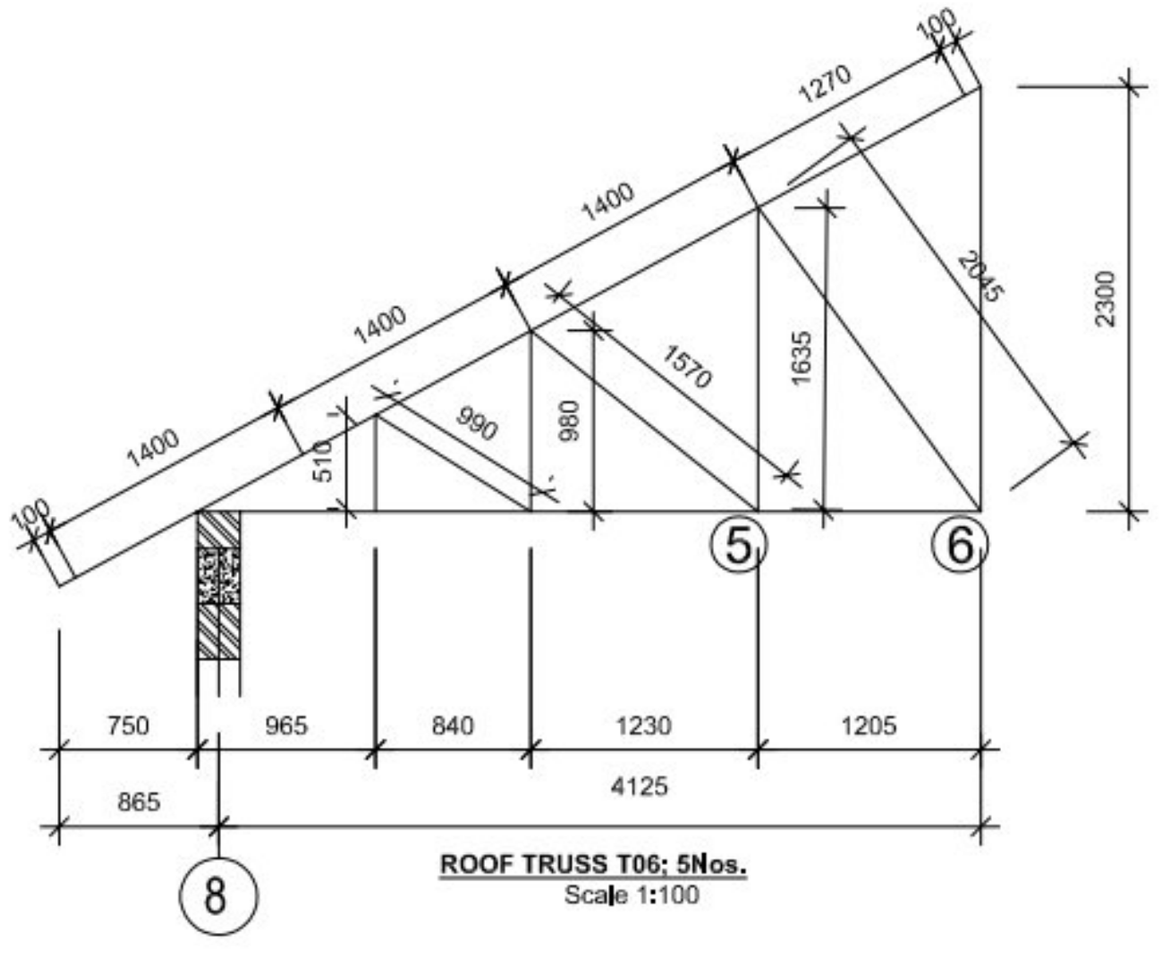
ROOF TRUSS DETAILS
(**REVISED -1**)

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

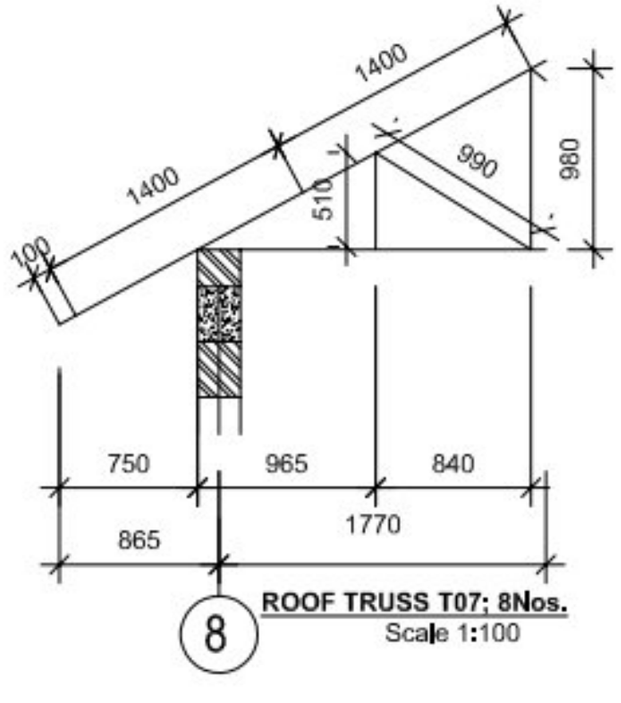
Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 10/14



ROOF TRUSS T05; 8Nos.
Scale 1:100



ROOF TRUSS T06; 5Nos.
Scale 1:100



ROOF TRUSS T07; 8Nos.
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:

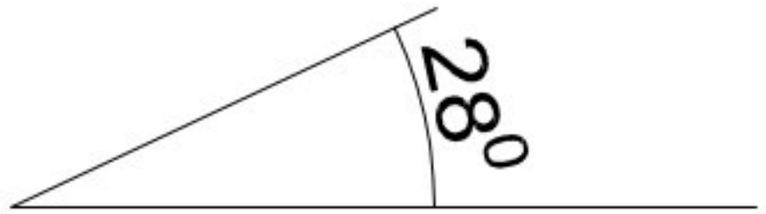
DRAWING TITLE:

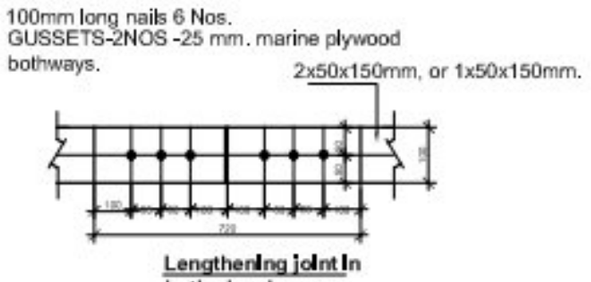
80 STUDENTS DORMITORY BLOCK

ROOF TRUSS DETAILS (**REVISED -1**)

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

Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No: STR.DM	Sheet: 11/14





Lengthening joint in both chords 1:10

TYPICAL TRUSS CONNECTIONS DETAIL

NOTE:

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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:

80 STUDENTS DORMITORY 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.DM	Sheet: 12/14

Page 1/4	Bar Bending Schedule PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY 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)	NOTE
COLUMN FOOTING F01	2	01	Y12	1300	12	15.6	900 / 100	
COLUMN FOOTING F01	2	02	Y12	1300	12	15.6	900 / 100	
COLUMN FOOTING F01	2	03	Y8	730	10	7.3	50 / 180 / 180	
COLUMN FOOTING F01	2	04	Y12	2200	12	26.4	1900 / 100	
PLINTH BEAM PB01	1	01	Y12	8900	4	35.6	8400 / 250	
PLINTH BEAM PB01	1	02	Y8	960	40	38.4	50 / 50 / 250 / 180	
PLINTH BEAM PB02	2	01	Y12	8900	8	71.2	8400 / 250	
PLINTH BEAM PB02	2	02	Y8	960	80	76.8	50 / 50 / 250 / 180	
PLINTH BEAM PB03	2	01	Y12	12000	4	48	11750 / 250	
PLINTH BEAM PB03	2	02	Y12	2450	4	9.8	2200 / 100	
PLINTH BEAM PB03	2	03	Y12	2450	4	9.8	2200 / 100	
PLINTH BEAM PB03	2	04	Y12	12000	4	48	11750 / 100	
PLINTH BEAM PB03	2	05	Y8	960	132	126.72	50 / 50 / 250 / 180	
PLINTH BEAM PB04	2	01	Y12	12000	4	48	11750 / 100	
PLINTH BEAM PB04	2	02	Y12	12000	4	48	11750 / 100	
PLINTH BEAM PB04	2	03	Y12	12000	4	48	11750 / 250	
PLINTH BEAM PB04	2	04	Y12	12000	4	48	11750 / 250	
PLINTH BEAM PB04	2	05	Y8	960	230	220.8	50 / 50 / 250 / 180	
PLINTH BEAM PB05	2	01	Y12	12000	4	48	11750 / 250	
PLINTH BEAM PB05	2	02	Y12	3950	4	15.8	3700 / 250	
PLINTH BEAM PB05	2	03	Y12	3950	4	15.8	3700 / 100	
PLINTH BEAM PB05	2	04	Y12	12000	4	48	11750 / 100	
PLINTH BEAM PB05	2	05	Y8	960	146	140.16	50 / 50 / 250 / 180	

Page 2/4	Bar Bending Schedule PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY 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)	NOTE
PLINTH BEAM PB06	2	01	Y12	12000	4	48	11750 / 250	
PLINTH BEAM PB06	2	02	Y12	12000	4	48	12000	
PLINTH BEAM PB06	2	03	Y12	2550	4	10.2	2300 / 250	
PLINTH BEAM PB06	2	04	Y12	2550	4	10.2	2300 / 100	
PLINTH BEAM PB06	2	05	Y12	12000	4	48	12000	
PLINTH BEAM PB06	2	06	Y12	12000	4	48	11750 / 250	
PLINTH BEAM PB06	2	07	Y8	960	246	236.16	50 / 50 / 250 / 180	
PLINTH BEAM PB07	1	01	Y12	3950	4	15.8	3450 / 250	
PLINTH BEAM PB07	1	02	Y8	960	16	15.36	50 / 50 / 250 / 180	
PLINTH BEAM PB08	2	01	Y12	2650	8	21.2	2150 / 250	
PLINTH BEAM PB08	2	02	Y8	960	20	19.2	50 / 50 / 250 / 180	
PLINTH BEAM PB09	2	01	Y12	9650	8	77.2	8150 / 250	
PLINTH BEAM PB09	2	02	Y8	960	90	86.4	50 / 50 / 250 / 180	
PLINTH BEAM PB10	3	01	Y12	9650	12	115.8	8150 / 100	
PLINTH BEAM PB10	3	02	Y8	960	135	129.6	50 / 50 / 250 / 180	
PLINTH BEAM PB11	2	01	Y12	9650	8	77.2	8150 / 250	
PLINTH BEAM PB11	2	02	Y8	960	90	86.4	50 / 50 / 250 / 180	
PLINTH BEAM PB12	2	01	Y12	2150	8	17.2	1850 / 100	
PLINTH BEAM PB12	2	02	Y8	960	14	86.4	50 / 50 / 250 / 180	
PLINTH BEAM PB13	2	01	Y12	11150	8	89.2	10850 / 250	
PLINTH BEAM PB13	2	02	Y8	960	104	99.84	50 / 50 / 250 / 180	

NOTE:

1. All dimensions are in millimetres unless otherswise 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 25 - Nominal volumetric proportion 1: 1.5: 3 cube strength not less than 25N/mm² at 28 days.
4. Steel for reinforced concrete shal comply with BS4449 whereby fy = 460N/mm².
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 20mm
   - 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/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:

80 STUDENTS DORMITORY BLOCK

ROOF RING BEAMS LAYOUT PLAN (**REVISED -1**)

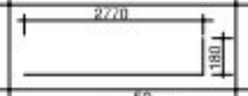
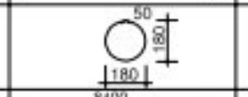
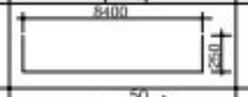
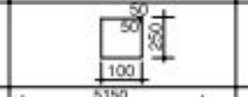
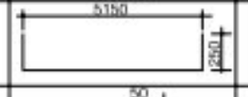
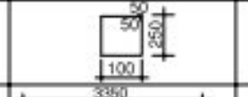
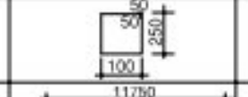
DRAWING USE:
For Building permit: ☐
For Construction: ☑

Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 13/14

Page 3/4

Bar Bending Schedule

PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY BLOCK (COLUMN 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)	NOTE
COLUMN C01	2	01	Y12	2950	8	23.6		
COLUMN C01	2	02	Y8	730	30	21.9		
ROOF RING BEAM RB01	1	01	Y12	8900	4	35.6		
ROOF RING BEAM RB01	1	02	Y8	800	40	32		
ROOF RING BEAM RB02	1	01	Y12	5650	4	22.6		
ROOF RING BEAM RB02	1	02	Y8	800	25	20		
ROOF RING BEAM RB03	1	01	Y12	3850	4	15.4		
ROOF RING BEAM RB03	1	02	Y8	800	16	12.8		
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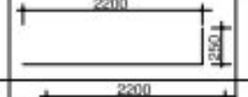
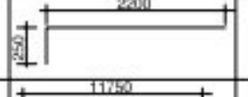
ROOF RING BEAM RB04	2	02	Y12	2450	4	9.8		
ROOF RING BEAM RB04	2	03	Y12	2450	4	9.8		
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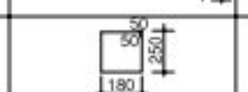
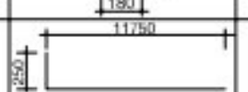
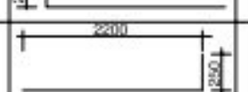
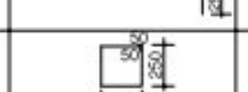
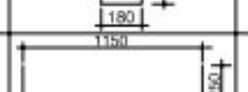
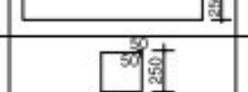
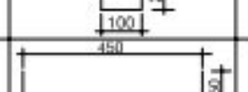
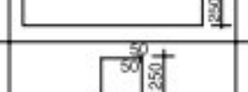
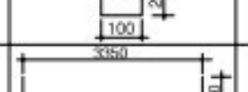
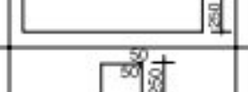
ROOF RING BEAM RB04	2	05	Y8	960	132	30.72		
ROOF RING BEAM RB05	2	01	Y12	12000	4	48		
ROOF RING BEAM RB05	2	02	Y12	12000	4	48		
ROOF RING BEAM RB05	2	03	Y12	12000	4	48		
ROOF RING BEAM RB05	2	04	Y12	12000	4	48		
ROOF RING BEAM RB05	2	05	Y8	960	230	220.8		
ROOF RING BEAM RB06	4	01	Y12	1650	16	26.4		
ROOF RING BEAM RB06	4	02	Y8	800	20	16		
ROOF RING BEAM RB07	2	01	Y12	950	8	15.4		
ROOF RING BEAM RB07	2	02	Y8	800	8	6.4		
ROOF RING BEAM RB08	1	01	Y12	3850	4	15.4		
ROOF RING BEAM RB08	1	02	Y8	960	16	15.36		

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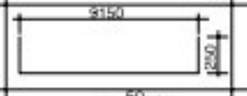
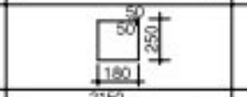
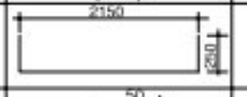
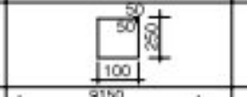
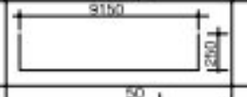
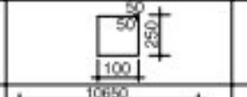
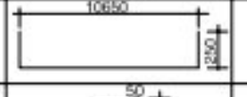
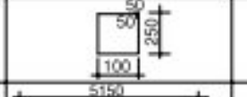
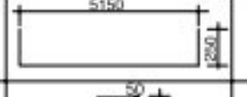
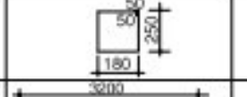
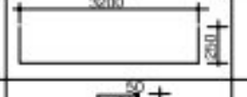
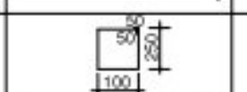
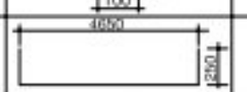
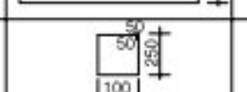
Bar Bending Schedule

PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY BLOCK (COLUMN 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)	NOTE
ROOF RING BEAM RB09	2	01	Y12	9650	8	77.2		
ROOF RING BEAM RB09	2	02	Y8	960	90	86.4		
ROOF RING BEAM RB10	2	01	Y12	2650	8	21.2		
ROOF RING BEAM RB10	2	02	Y8	800	20	16		
ROOF RING BEAM RB11	3	01	Y12	9650	12	116.16		
ROOF RING BEAM RB11	3	02	Y8	800	135	108		
ROOF RING BEAM RB12	2	01	Y12	11150	8	89.2		
ROOF RING BEAM RB12	2	02	Y8	800	104	83.2		
ROOF RING BEAM RB13	2	01	Y12	5650	8	45.2		
ROOF RING BEAM RB13	2	02	Y8	960	50	48		
ROOF RING BEAM RB14	2	01	Y12	3700	8	29.6		
ROOF RING BEAM RB14	2	02	Y8	800	34	27.2		
ROOF RING BEAM RB15	2	01	Y12	5150	8	41.2		
ROOF RING BEAM RB15	2	02	Y8	800	44	35.2		

NOTE:

1. All dimensions are in millimetres unless otherswise 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 25 - Nominal volumetric proportion 1: 1.5: 3 cube strength not less than 25N/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.
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 20mm
   - 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/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:

80 STUDENTS DORMITORY BLOCK

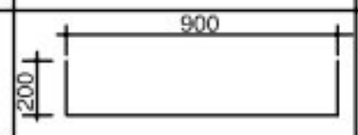
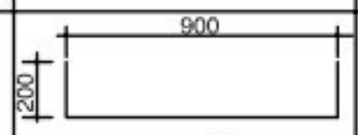
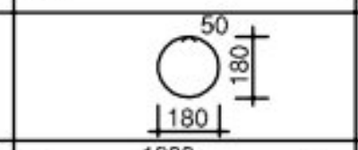
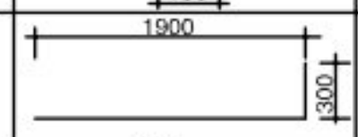
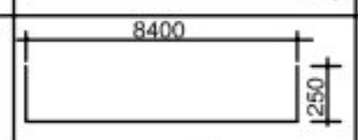
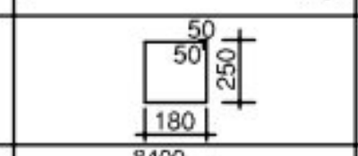
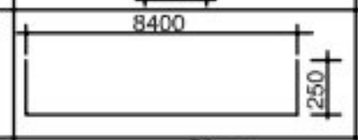
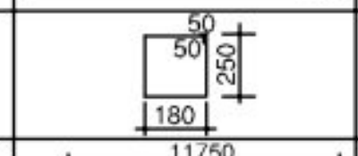
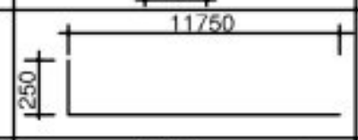
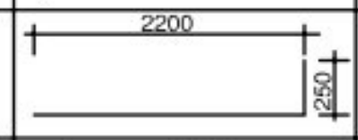
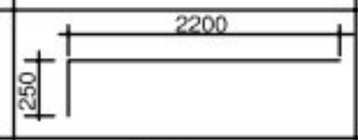
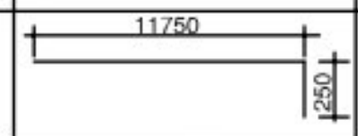
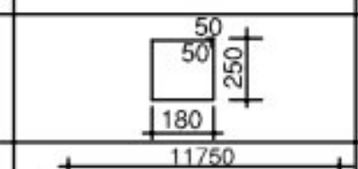
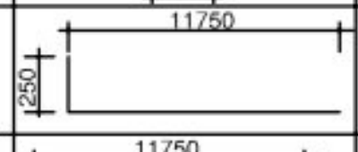
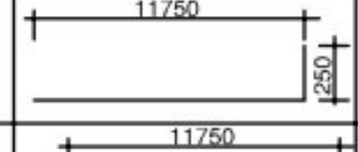
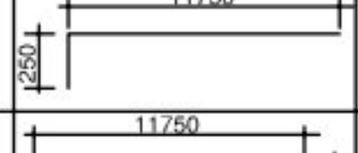
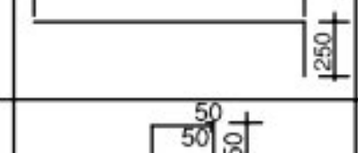
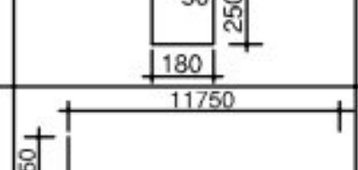
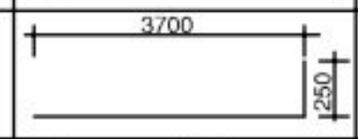
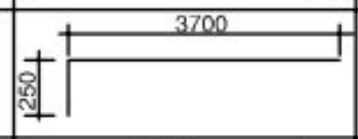
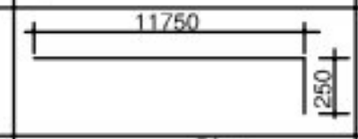
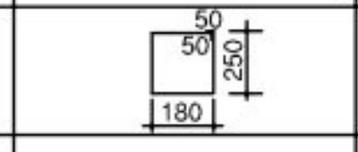
COLUMNS AND ROOF RING BEAMS DETAILS (**REVISED -1**)

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

Drawn by:	J.M.S
Date: June, 2023	Scale:
Drawing No:STR.DM	Sheet: 14/14

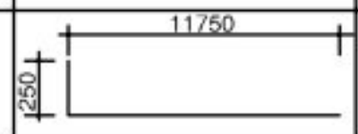
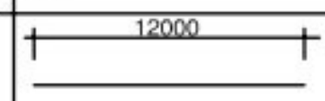
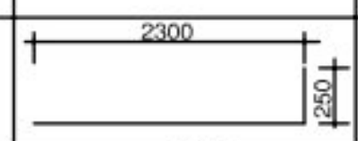
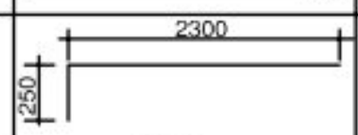
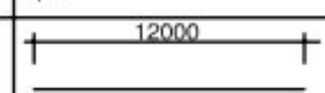
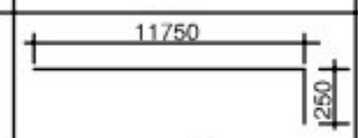
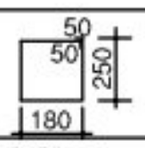
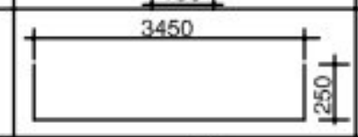
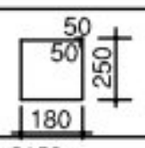
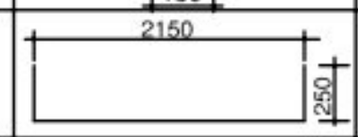
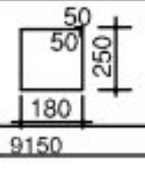
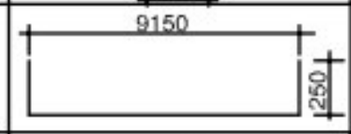
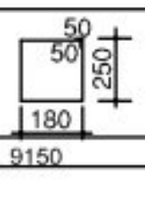
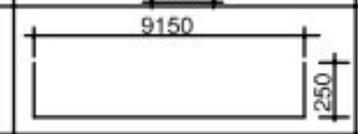
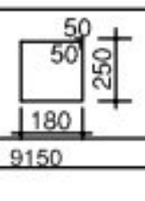
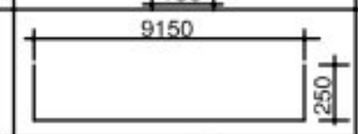
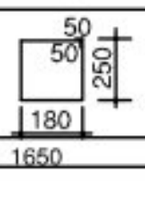
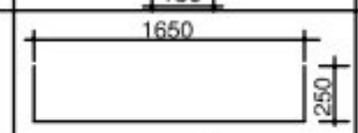
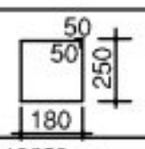
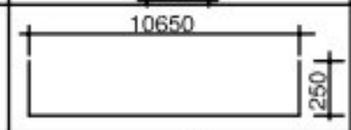
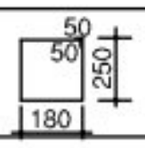
Bar Bending Schedule

PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY 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)	NOTE
COLUMN FOOTING F01	2	01	Y12	1300	12	15.6		
COLUMN FOOTING F01	2	02	Y12	1300	12	15.6		
COLUMN FOOTING F01	2	03	Y8	730	10	7.3		
COLUMN FOOTING F01	2	04	Y12	2200	12	26.4		
PLINTH BEAM PB01	1	01	Y12	8900	4	35.6		
PLINTH BEAM PB01	1	02	Y8	960	40	38.4		
PLINTH BEAM PB02	2	01	Y12	8900	8	71.2		
PLINTH BEAM PB02	2	02	Y8	960	80	76.8		
PLINTH BEAM PB03	2	01	Y12	12000	4	48		
PLINTH BEAM PB03	2	02	Y12	2450	4	9.8		
PLINTH BEAM PB03	2	03	Y12	2450	4	9.8		
PLINTH BEAM PB03	2	04	Y12	12000	4	48		
PLINTH BEAM PB03	2	05	Y8	960	132	126.72		
PLINTH BEAM PB04	2	01	Y12	12000	4	48		
PLINTH BEAM PB04	2	02	Y12	12000	4	48		
PLINTH BEAM PB04	2	03	Y12	12000	4	48		
PLINTH BEAM PB04	2	04	Y12	12000	4	48		
PLINTH BEAM PB04	2	05	Y8	960	230	220.8		
PLINTH BEAM PB05	2	01	Y12	12000	4	48		
PLINTH BEAM PB05	2	02	Y12	3950	4	15.8		
PLINTH BEAM PB05	2	03	Y12	3950	4	15.8		
PLINTH BEAM PB05	2	04	Y12	12000	4	48		
PLINTH BEAM PB05	2	05	Y8	960	146	140.16		

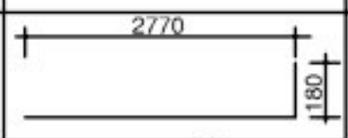
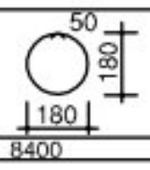
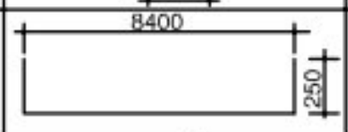
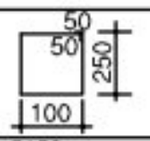
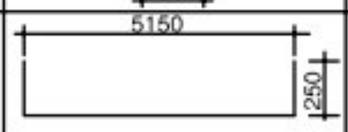
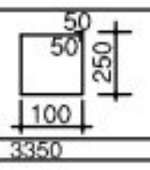
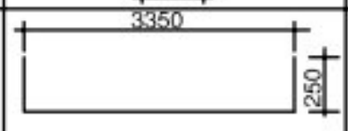
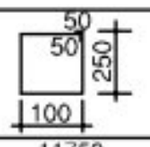
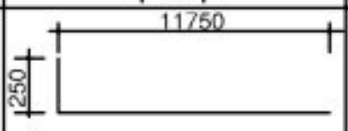
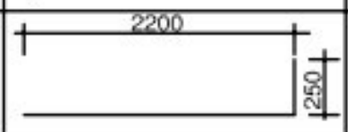
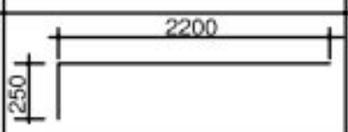
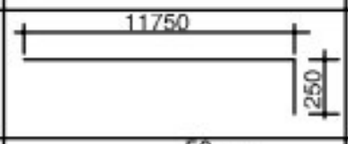
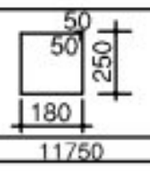
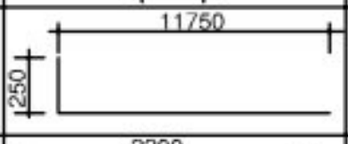
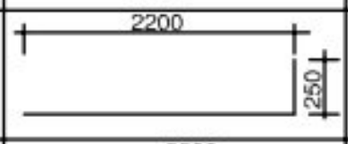
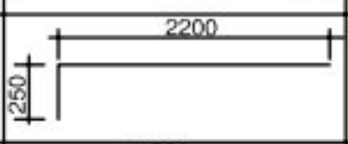
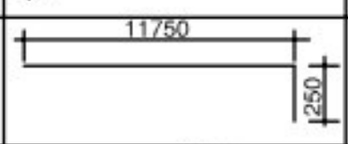
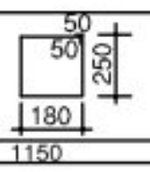
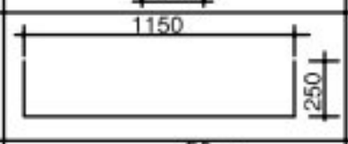
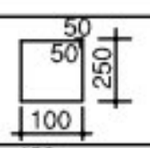
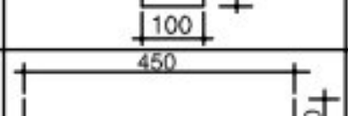
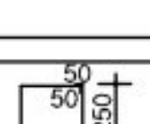
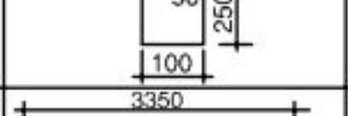
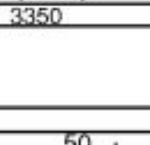
Bar Bending Schedule

PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY 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)	NOTE
PLINTH BEAM PB06	2	01	Y12	12000	4	48		
PLINTH BEAM PB06	2	02	Y12	12000	4	48		
PLINTH BEAM PB06	2	03	Y12	2550	4	10.2		
PLINTH BEAM PB06	2	04	Y12	2550	4	10.2		
PLINTH BEAM PB06	2	05	Y12	12000	4	48		
PLINTH BEAM PB06	2	06	Y12	12000	4	48		
PLINTH BEAM PB06	2	07	Y8	960	246	236.16		
PLINTH BEAM PB07	1	01	Y12	3950	4	15.8		
PLINTH BEAM PB07	1	02	Y8	960	16	15.36		
PLINTH BEAM PB08	2	01	Y12	2650	8	21.2		
PLINTH BEAM PB08	2	02	Y8	960	20	19.2		
PLINTH BEAM PB09	2	01	Y12	9650	8	77.2		
PLINTH BEAM PB09	2	02	Y8	960	90	86.4		
PLINTH BEAM PB10	3	01	Y12	9650	12	115.8		
PLINTH BEAM PB10	3	02	Y8	960	135	129.6		
PLINTH BEAM PB11	2	01	Y12	9650	8	77.2		
PLINTH BEAM PB11	2	02	Y8	960	90	86.4		
PLINTH BEAM PB12	2	01	Y12	2150	8	17.2		
PLINTH BEAM PB12	2	02	Y8	960	14	86.4		
PLINTH BEAM PB13	2	01	Y12	11150	8	89.2		
PLINTH BEAM PB13	2	02	Y8	960	104	99.84		

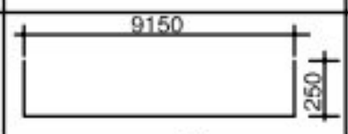
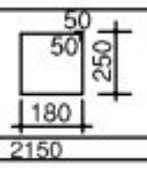
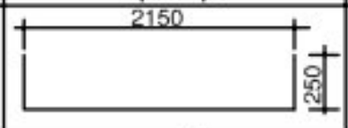
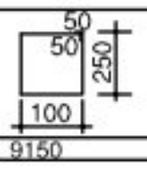
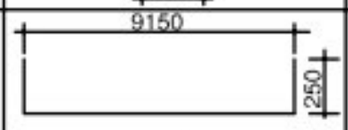
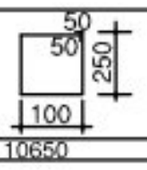
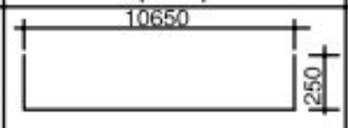
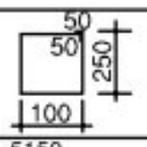
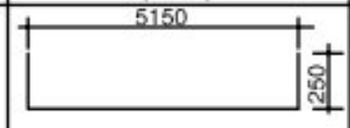
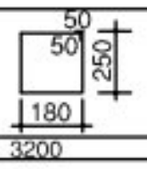
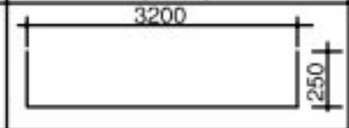
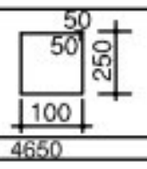
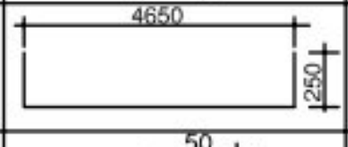
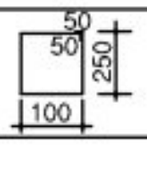
Bar Bending Schedule

PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY BLOCK (COLUMN 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)	NOTE
COLUMN C01	2	01	Y12	2950	8	23.6		
COLUMN C01	2	02	Y8	730	30	21.9		
ROOF RING BEAM RB01	1	01	Y12	8900	4	35.6		
ROOF RING BEAM RB01	1	02	Y8	800	40	32		
ROOF RING BEAM RB02	1	01	Y12	5650	4	22.6		
ROOF RING BEAM RB02	1	02	Y8	800	25	20		
ROOF RING BEAM RB03	1	01	Y12	3850	4	15.4		
ROOF RING BEAM RB03	1	02	Y8	800	16	12.8		
ROOF RING BEAM RB04	2	01	Y12	12000	4	48		
ROOF RING BEAM RB04	2	02	Y12	2450	4	9.8		
ROOF RING BEAM RB04	2	03	Y12	2450	4	9.8		
ROOF RING BEAM RB04	2	04	Y12	12000	4	48		
ROOF RING BEAM RB04	2	05	Y8	960	132	30.72		
ROOF RING BEAM RB05	2	01	Y12	12000	4	48		
ROOF RING BEAM RB05	2	02	Y12	12000	4	48		
ROOF RING BEAM RB05	2	03	Y12	12000	4	48		
ROOF RING BEAM RB05	2	04	Y12	12000	4	48		
ROOF RING BEAM RB05	2	05	Y8	960	230	220.8		
ROOF RING BEAM RB06	4	01	Y12	1650	16	26.4		
ROOF RING BEAM RB06	4	02	Y8	800	20	16		
ROOF RING BEAM RB07	2	01	Y12	950	8	15.4		
ROOF RING BEAM RB07	2	02	Y8	800	8	6.4		
ROOF RING BEAM RB08	1	01	Y12	3850	4	15.4		
ROOF RING BEAM RB08	1	02	Y8	960	16	15.36		

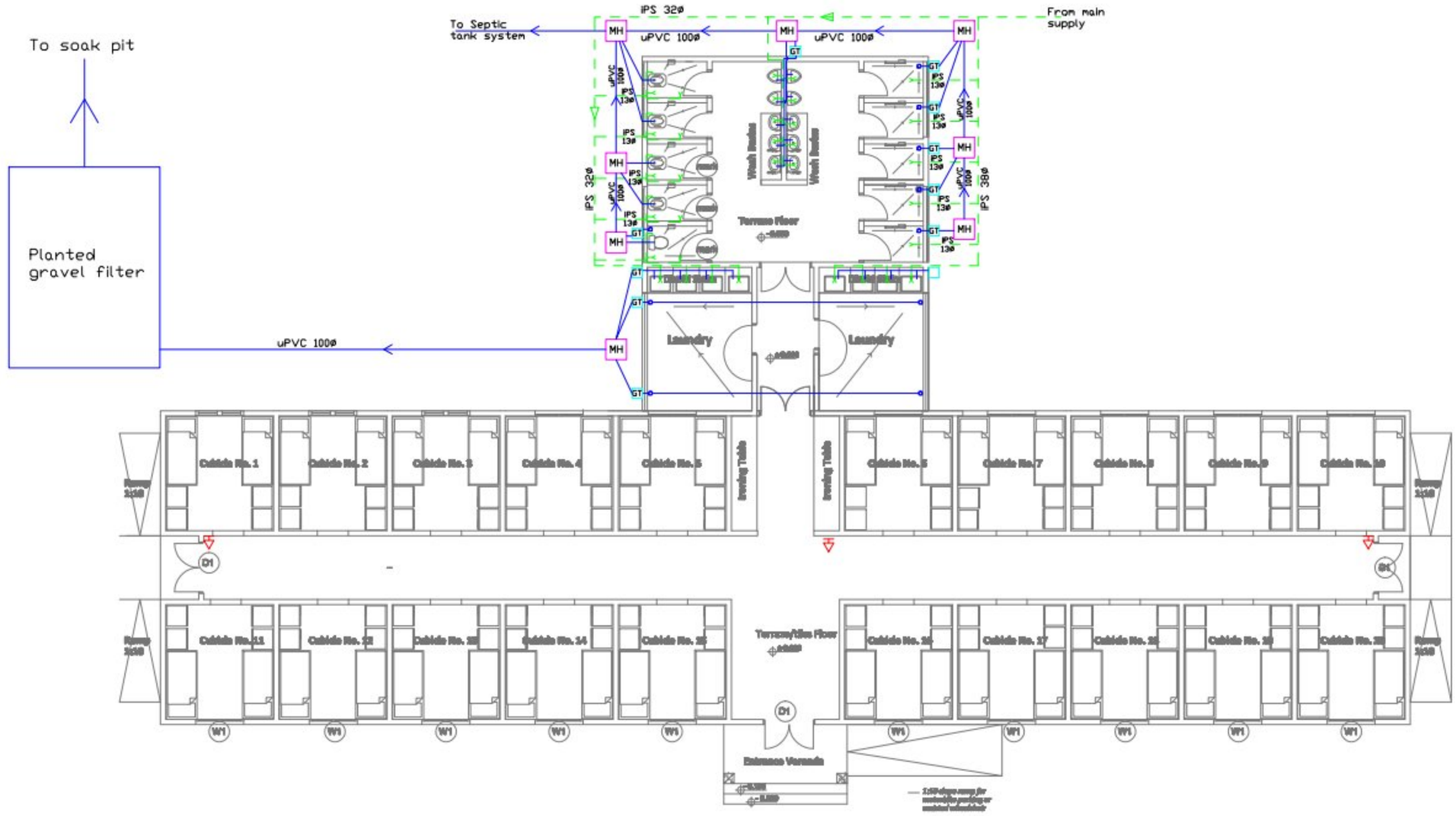
Bar Bending Schedule

PROPOSED STANDARD DRAWINGS FOR SEQUIP - DOMITORY BLOCK (COLUMN AND ROOF RING BEAMS)

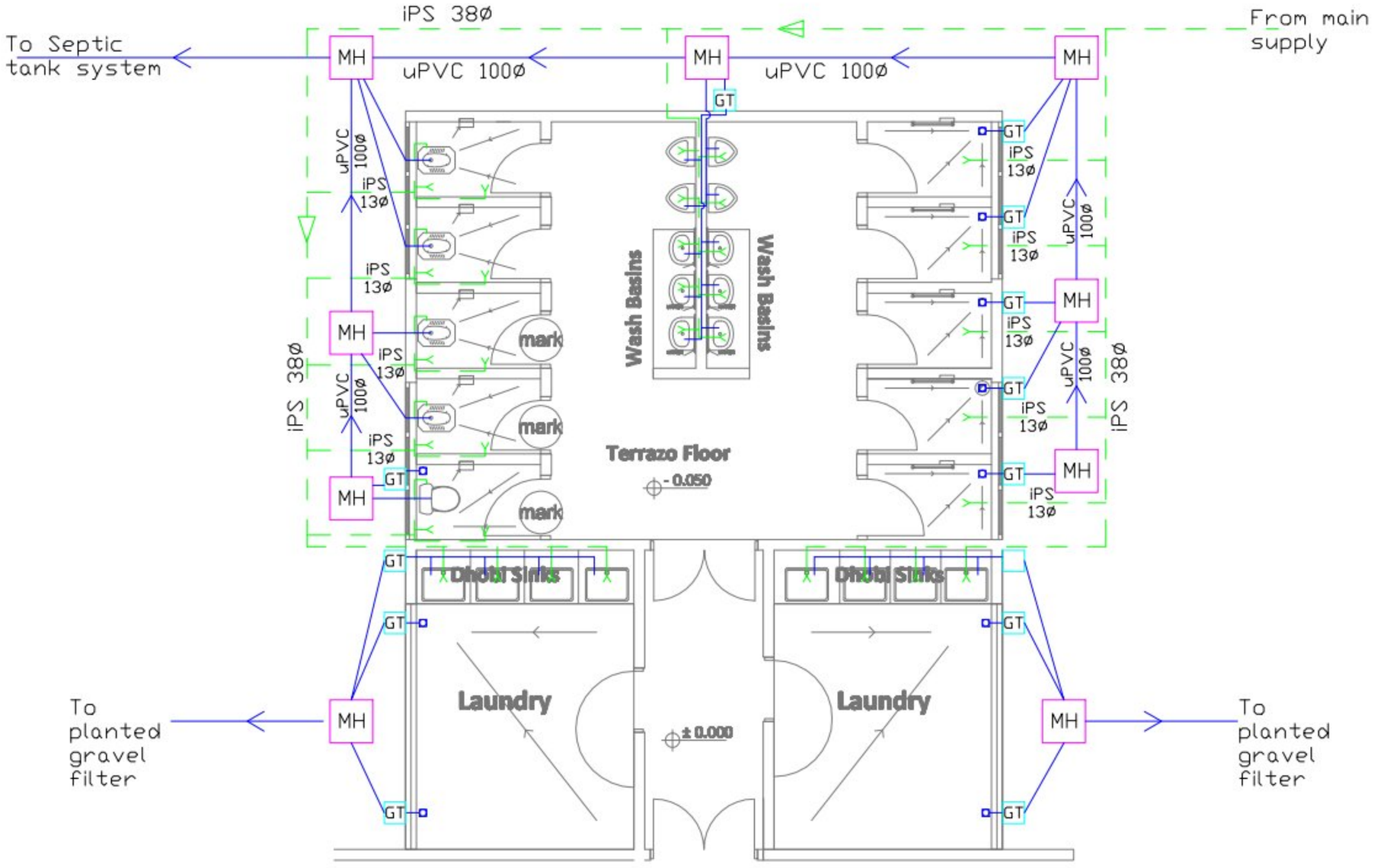
MEMBER TYPE	NUMBER OF MEMBER.	MARK No.	BAR TYPE AND SIZE (mm)	LENGTH OF EACH BAR (mm)	NO. OF BARS	TOTAL LENGTH (m)	SKETCH OF BAR DIMENSIONS IN (mm)	NOTE
ROOF RING BEAM RB09	2	01	Y12	9650	8	77.2		
ROOF RING BEAM RB09	2	02	Y8	960	90	86.4		
ROOF RING BEAM RB10	2	01	Y12	2650	8	21.2		
ROOF RING BEAM RB10	2	02	Y8	800	20	16		
ROOF RING BEAM RB11	3	01	Y12	9650	12	116.16		
ROOF RING BEAM RB11	3	02	Y8	800	135	108		
ROOF RING BEAM RB12	2	01	Y12	11150	8	89.2		
ROOF RING BEAM RB12	2	02	Y8	800	104	83.2		
ROOF RING BEAM RB13	2	01	Y12	5650	8	45.2		
ROOF RING BEAM RB13	2	02	Y8	960	50	48		
ROOF RING BEAM RB14	2	01	Y12	3700	8	29.6		
ROOF RING BEAM RB14	2	02	Y8	800	34	27.2		
ROOF RING BEAM RB15	2	01	Y12	5150	8	41.2		
ROOF RING BEAM RB15	2	02	Y8	800	44	35.2		

WATER SUPPLY AND PLUMBINGS

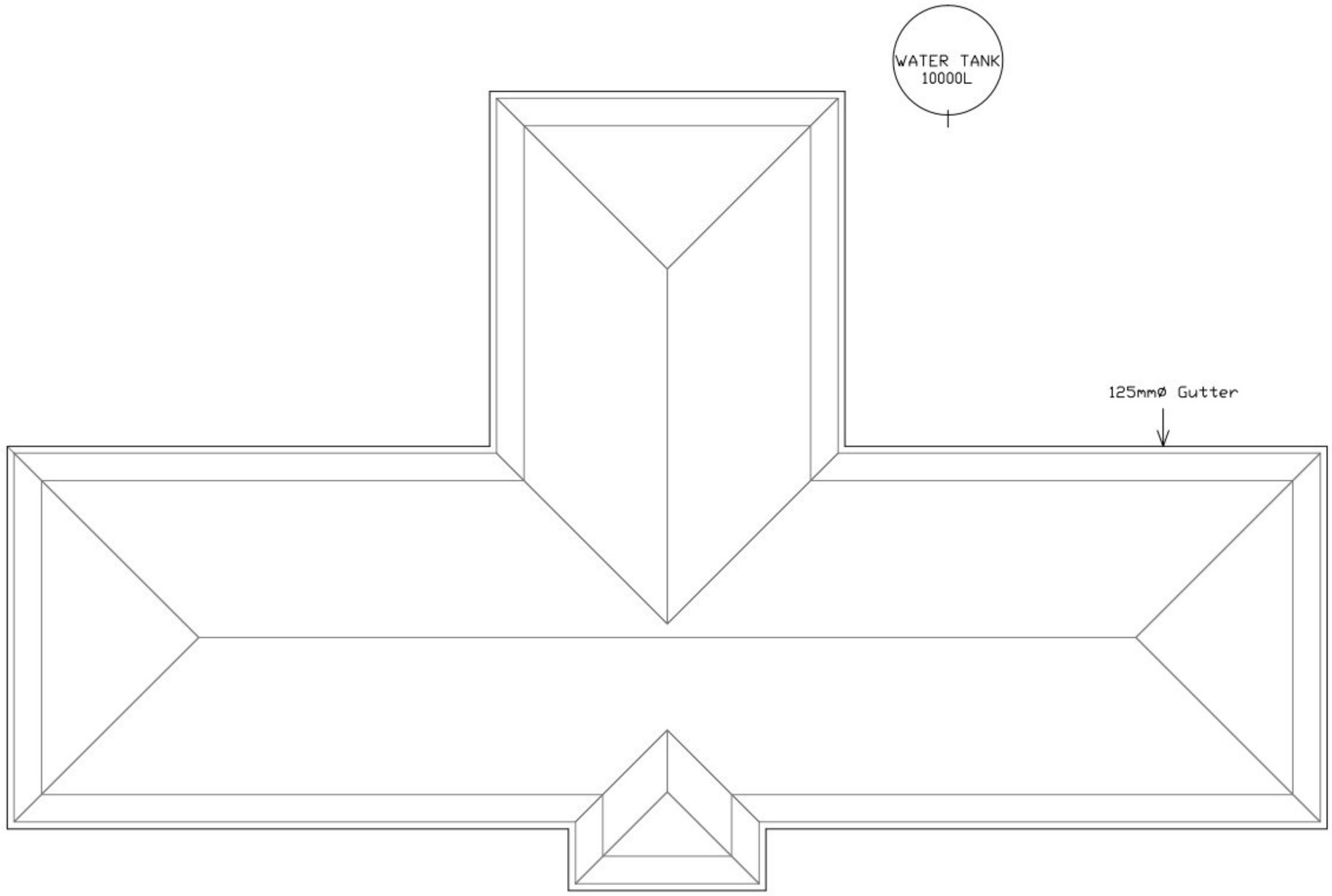
SERVICE DRAWINGS



MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY **PHYSICAL FACILITIES STANDARDS SECTION**	**SECONDARY SCHOOL DESIGN GUIDELINES**	DRAWING TITLE : **80 STUDENTS DORMITORY** CONTENT : WATER SUPPLY, DRAINAGE AND FIREFIGHTING PLAN	DRAWING NO: S/PL/DOM/01 SCALE: 1:50



MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY PHYSICAL FACILITIES STANDARDS SECTION	SECONDARY SCHOOL DESIGN GUIDELINES	DRAWING TITLE : 80 STUDENTS DORMITORY CONTENT : ABLUTION PART PLAN	DRAWING NO: S/PL/DORMS SCALE: 1:50



MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY

PHYSICAL FACILITIES STANDARDS SECTION

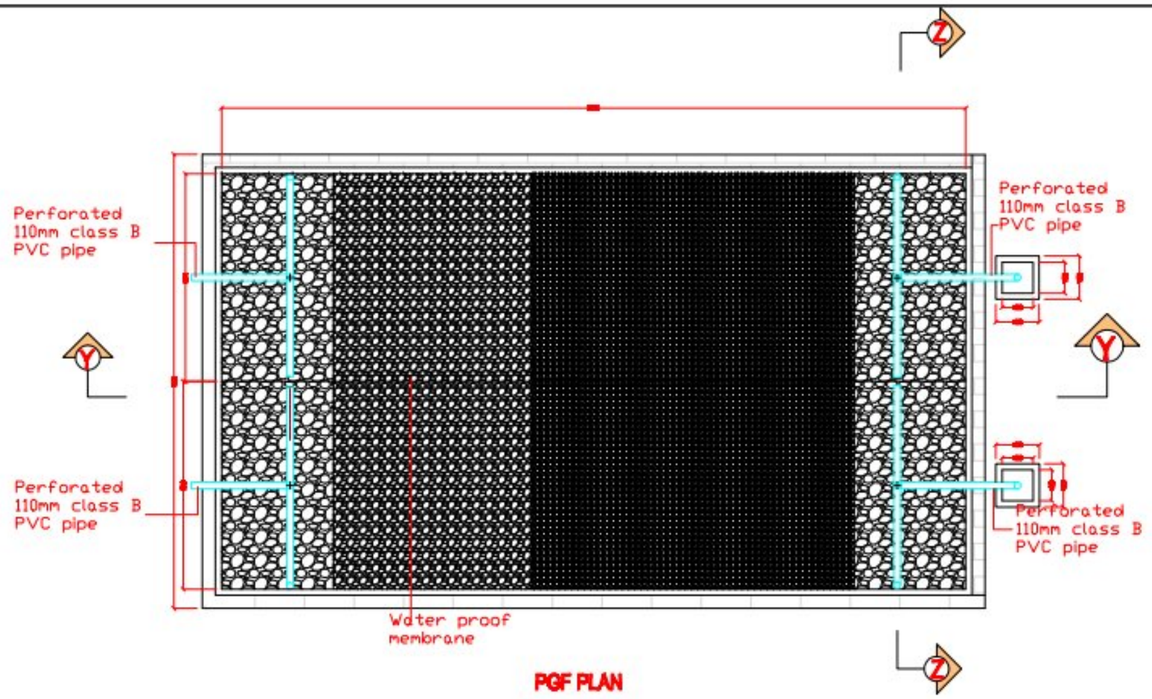
SECONDARY SCHOOL DESIGN GUIDELINES

DRAWING TITLE :80 STUDENTS DORMITORY

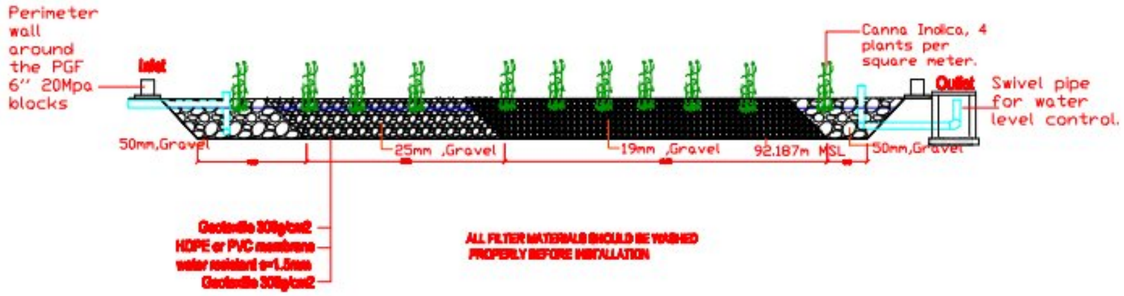
CONTENT :ROOF RAIN HARVEST SYSTEM

DRAWING NO: S/PL/DOM/8

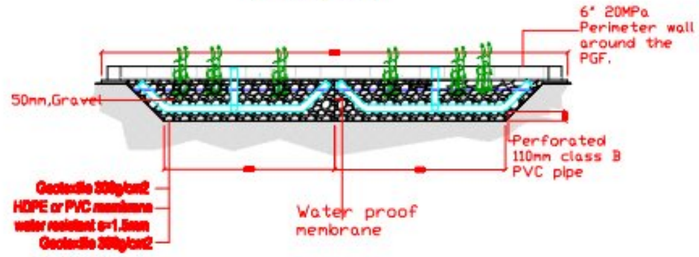
SCALE: 1:50



PGF PLAN

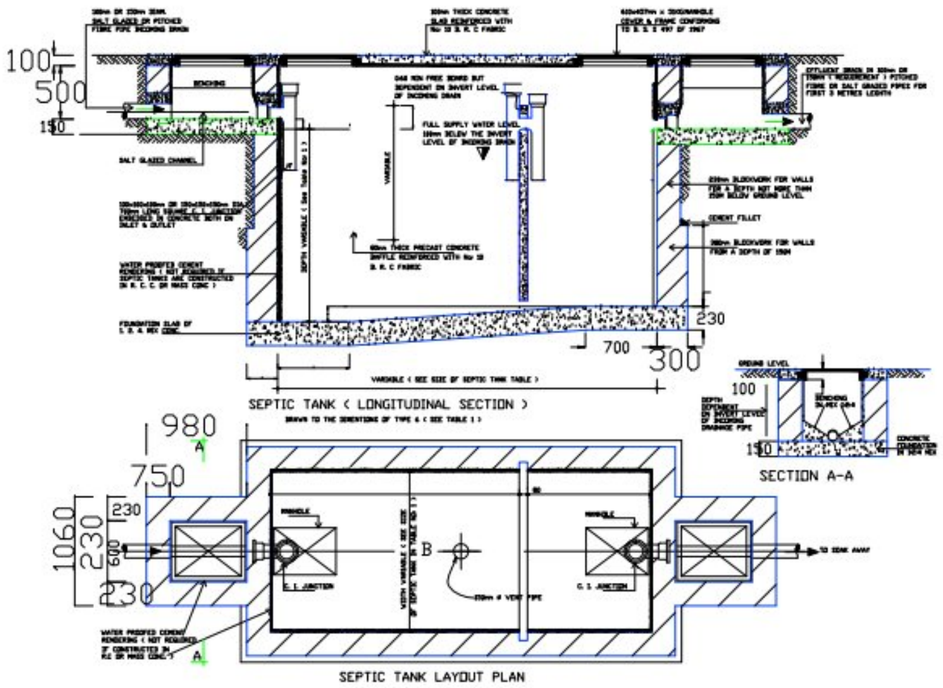


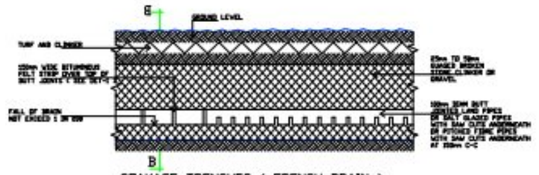
SECTION Y-Y

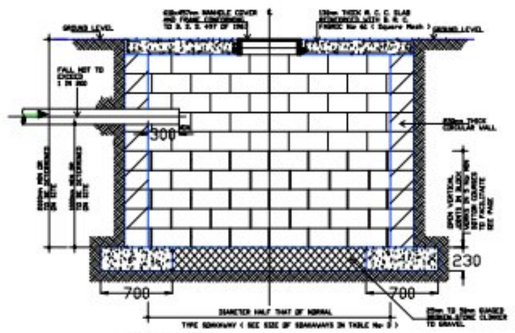


SECTION Z-Z

MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY PHYSICAL FACILITIES STANDARDS SECTION	SECONDARY SCHOOL DESIGN GUIDELINES	DRAWING TITLE : 80 STUDENTS DORMITORY CONTENT : PLANTED GRAVEL FILTER	DRAWING NO: S/PL/DOM/04 SCALE: 1:50







NOTES

A SEPTIC TANK

1. THE DEPTH OF SEPTIC TANKS GIVEN IN TABLE 1 IS THE DEPTH BELOW FULL SUPPLY LEVEL (EXCUDING FREE BOARD).
2. SEPTIC TANKS MUST NOT BE CONSTRUCTED LESS THAN A DISTANCE OF 6m FROM THE NEAREST BUILDING & MUST BE VENTED BACK THROUGH INCOMING DRAIN BY PROVIDING WITH STACK, VENT OR SOIL CUMPIPE RISING OVER THE EAVES AND DULY FITTED WITH MOSQUETO PROOFED SCREENS ETC.
3. SEPTIC TANKS MUST BE CONSTRUCTED WATER PROOFED BY ADDING 'PUDLO' OR SOME OTHER WATER PROOFING AGENT OF APPROVED MAKE IN ALL MASS CONCRETE AND RENDERING.

B PERCOLATION FACTOR

IT IS THE TIME (IN MINUTES) TAKEN BY CLEAR WATER FOR SEEPING INTO A CERTAIN SOIL THROUGH A DEPTH OF ONE CENTIMETER.

TO ASCERTAIN PERCLATION FACTOR-

1. DIG A HOLE ABOUT 30x30cm SIZE TO THE REQUIRED DEPTH OF TRENCH.
2. KEEP THE HOLE FILLED WITH CLEAR WATER FOR FOUR HOURS SO AS TO SATURATE THE SURROUNDING SOIL.
3. POUR IN CLEAR WATER TO FILL THE HOLE TO A DEPTH ABOUT 20cm.
4. NOTE THE TIME TAKEN BY WATER TO SDAKAVAY.
5. TO CALCULATE THE PERCULATION FACTOR DEVIDE THE TIME PERIOD (IN MINUTES) BY THE DEPTH OF WATER (IN cm).

EXAMPLE: 20cm OF WATER TAKES 70 MINUTES TO DISSAPEAR, THEREFORE,THE SDAKAGE FACTOR = 70/20= 3.5

C GENERAL NOTES

1. ALL DIMENTIONS ARE IN METERS EXCEPT WHERE MENTIONED OTHERWISE.
2. ALL HOUSE HOLD AND SOIL WASTES ARE TO BE TAKEN TO SEPTIC TANKS WHERE CONNECTIONS TO MAIN SEWERS HAVE BEEN PLANNED NORMALLY THE SOIL WASTES, ONLY,ARE TAKEN BY THE SEPTIC TANKS EXCEPT IN THE CASES AS ABOVE WHILE ALL OTHER HOUSE HOLD WASTES ARE DEALT WITH SEPARATELY AND DISPOSED OFF DIRECTLY INTO SDAKAGE PIT ETC.

D REINFORCED CONCRETE WORK-

FOR ALL REINFORCED CONCRETE WORK THE MIX SHALL BE 1: 2\ 4 BY VOLUME.
FOR MASS CONCRETE WORK MIX SHALL BE 1:3:6. BY VOLUME
EXCEPT MASS CONCRETING IN SEPTIC TANKS WHERE IT SHALL BE 1:2:4. BY VOLUME.

E FOR PERCULATION FACTOR

VALUE LESS THAN 1:5 USE SIZES OF SDAKAGE TRENCHES, SDAKAGE PITS AND SDAKAWAYS AS GIVEN FOR PERCULATIONS FACTOR OF VALUE EQUAL TO 3.5.

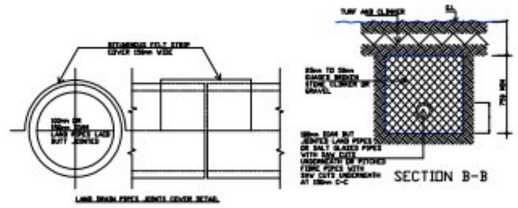


TABLE 1 SEPTIC TANK SIZES

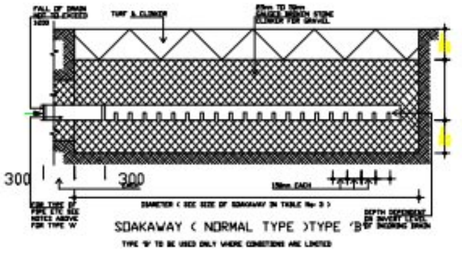
TYPE	ALL WASTES NO OF USERS	SOIL WASTES NO OF USERS	DIMENTIONS (METERS) LENGTH	WIDTH	DEPTHm	VOLUME m^3	CAPACITY LITRES
1	7	10	2.00	1.00	1.30	2.60	2.600
2	15	20	2.00	1.00	1.50	3.30	3.300
3	30	30	2.50	1.20	1.70	5.10	5.100
4	40	45	3.00	1.50	1.80	7.02	7020
5	50	60	3.40	1.50	1.80	9.18	9180
6	60	75	3.70	1.60	1.80	10.66	10660
7	75	90	4.20	1.70	1.80	12.85	12850
8	85	105	4.50	1.80	2.00	16.20	16.200
9		120	4.80	1.80	2.00	17.28	17.280

TABLE2 SDAKAGE TRENCH SIZES (TYPE 'A')

ALL WASTES NO OF USERS	SOIL WASTES NO OF USERS	PLAN ARE AS OF SDAKAGE TRENCHS (SQ METERS) PERCULATION FACTORS == 1.5	3.5	6.5	10	15	20
	10	2.97	4.92	5.85	7.24	8.83	10.31
7	20	4.38	6.22	8.27	10.22	12.17	14.49
15	30	5.11	8.18	9.29	11.52	15.24	17.84
30	45	6.22	9.38	12.17	15.51	19.04	25.46
40	60	7.35	10.78	14.31	17.93	21.46	25.08
50	75	7.99	11.99	15.98	19.60	23.60	27.96
60	90	8.73	13.10	17.47	21.83	26.11	30.56
75	105	9.48	14.21	18.77	23.69	28.43	33.17
85	120	10.13	15.33	20.25	25.27	30.47	35.49

TABLE3 SDAKAWAY SIZES (TYPE 'B')

ALL WASTES NO OF USERS	SOIL WASTES NO OF USERS	PLAN ARE AS OF SDAKAGE TRENCHS (SQ METERS) PERCULATION FACTORS == 1.5	3.5	6.5	10	15	20
	10						
7	20	2.80	3.10	3.50	3.80	4.40	4.80
15	30						
30	45						
40	60	3.10	3.70	4.30	4.80	5.30	5.70
50	75						
60	90						
75	105	3.70	4.40	5.10	5.70	6.30	6.70
85	120						



MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY

PHYSICAL FACILITIES STANDARDS SECTION

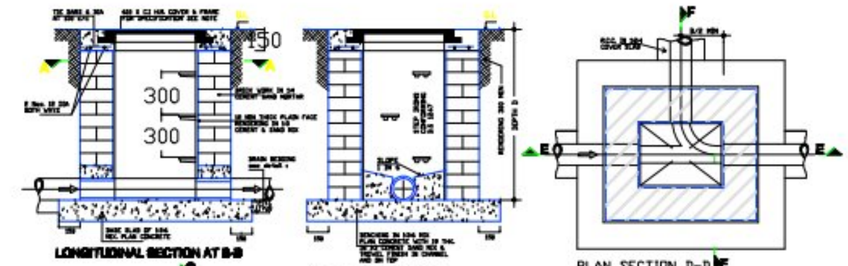
SECONDARY SCHOOL DESIGN GUIDELINES

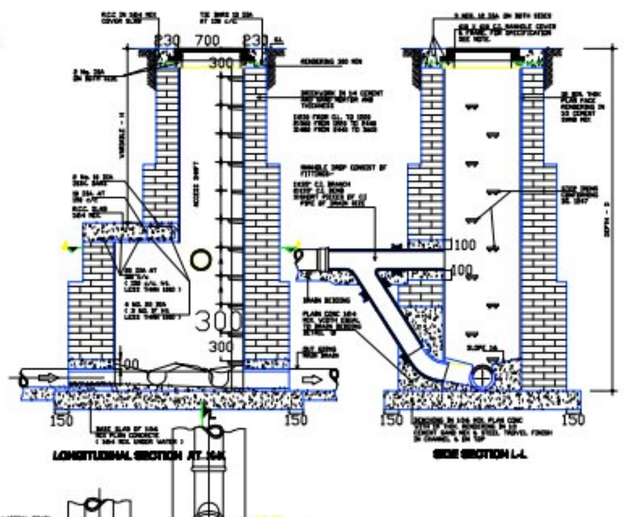
DRAWING TITLE : **80 STUDENTS DORMITORY**

CONTENT : SEPTIC TANK SYSTEM

DRAWING NO: S/PL/DORM/5

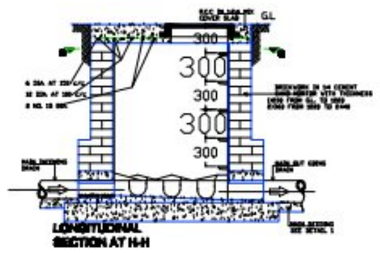
SCALE: 1:50

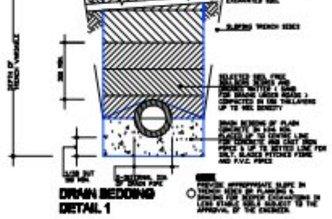


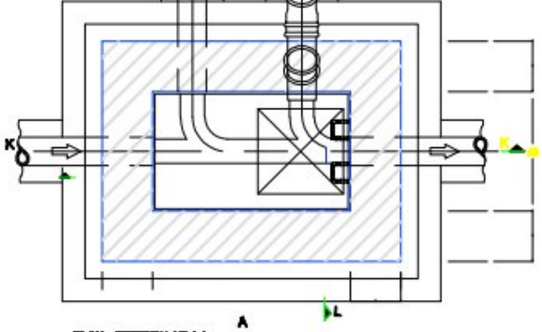


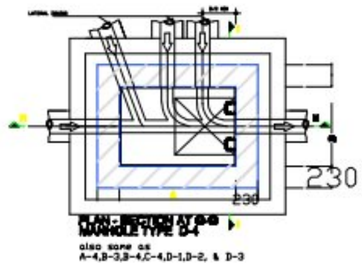
NOTES

1. ALL DIMENTIONS ARE IN MILLIMETERS EXCEPT WHERE MENTIONED OTHERWISE
2. ALL INTERIOR RENDERING & CONCRETE FOR BENCHING & COVER SLAB MUST BE MADE WITH SULPHATE RESISTING CEMENT
3. WITH LATERALS ON BOTH SIDES OF THE MH. CONSIDER THE SIDE WITH MAX. NUMBER OF LATERALS TO FIND THE SIZE OF MANHOLE TABLE 1.
4. MIN. DISTANCE BETWEEN ADJACENT LATERAL DRAINS MUST NOT BE LESS THAN (D1+D2), D1 & D2 ARE INTERNAL DIAMETERS OF THE LATERALS RESECTIVELY IN MM.
5. THE ANGEL BETWEEN INCOMING & OUTGOING DRAINS MUST NOT BE LESS THAN 90° AT ANY POINT OF JUNCTION OR ANY CHANGE OF DIRECTION.
6. A MANHOLE DROP AS SHOWN WITH MH TYPE E SHOULD BE PROVIDED WHEN DIFFERENCE IN INVERT LEVELS OF LATERAL & MAIN DRAIN IS MORE THAN 600mm. OTHERWISE,PROVIDE DROP IN CHANNEL OF BENCHING
7. PROVIDE CAST IRON MH. COVERS & FRAMES CONFORMING TO B.S. 497 OF 1967 ACCORDING TO THE REQD OF TRAFFIC LOADING & SEALING SUBJECT TO ENGINEERS APPR.
8. A BED SLOPE OF 1 IN 28 TO 1 IN 38 MUST BE PROVIDED IN BENCHING CHANNEL
9. REINFORCEMENT FOR COVER SLAB OF MH AS DETAILED IDENTICAL TO TYPES B1 & C1 SHOULD ONLY BE PROVIDED IF THE MH's ARE SUBJECTS TO TRAFFIC LOADING
10. TABLE 1 GIVES THE SIZES OF MH's WITH MAIN AND LATERAL DRAINS UP TO 230mm ø. THE SIZES OF MH WITH BIGGER DRAINS MAY ANYHOW BE ASCERTAINED SUBJECTED TO ENGINNERS APPROVAL.
11. PROPER MH's MUST BE PROVIDED AT EVERY POINT OF CHANGE OF DIRECTION,SIZE OR SLOPE OF DRAIN OR AT JUCTION OF MAIN & LATERAL DRAIN AT PROPER INTERVALS.









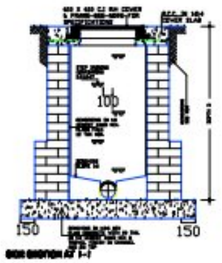
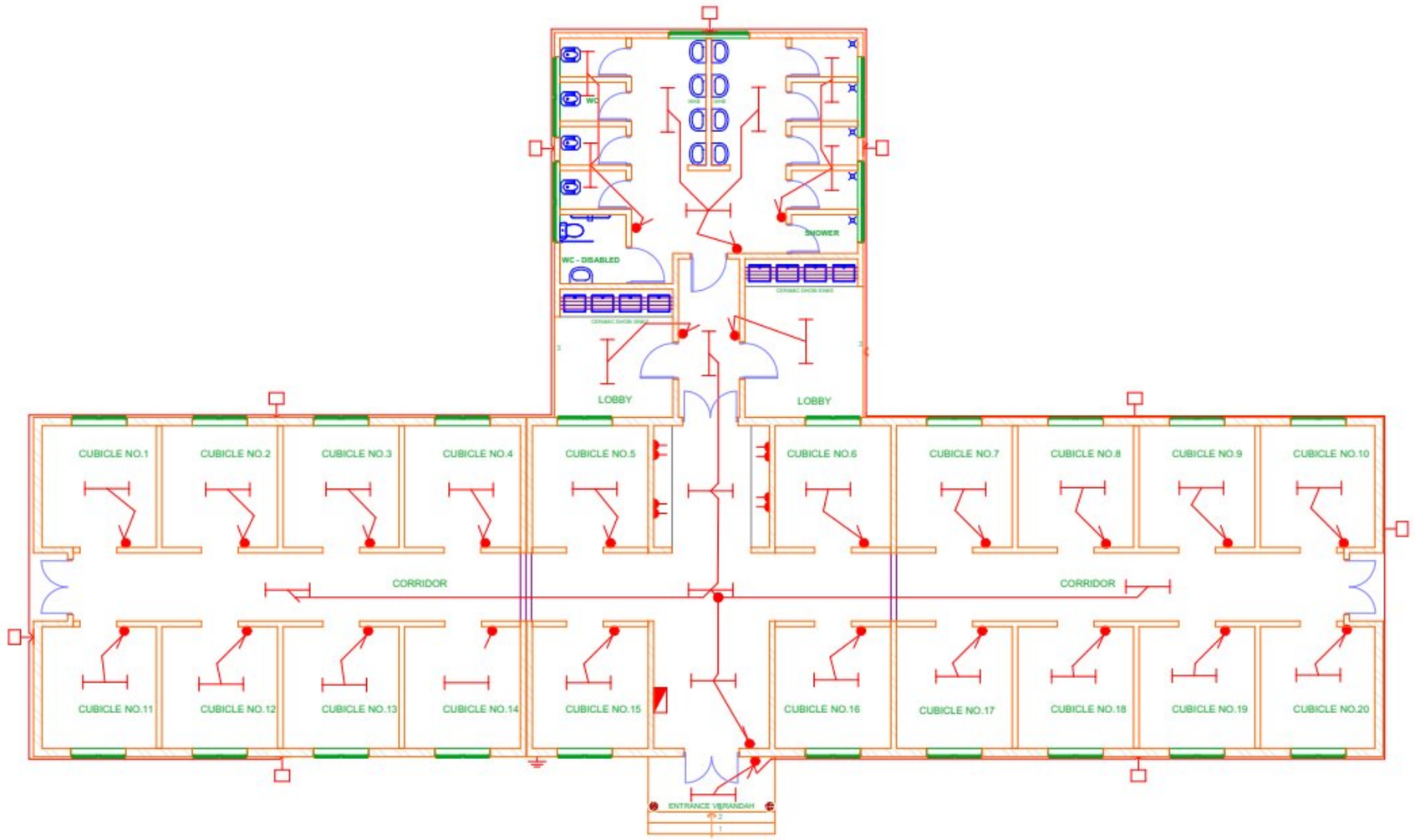


TABLE 1 MANHOLE SIZES (millimetres)

PIPE SIZE	WITH NO LATERALS ⊘		WITH 1 LATERAL ⊘		WITH 2 LATERALS ⊘		WITH 3 LATERALS ⊘	
	LENGTH-L	WIDTH-B	LENGTH-L	WIDTH-B	LENGTH-L	WIDTH-B	LENGTH-L	WIDTH-B
1	0-150	450	450	450	450	450	750	450
2	150-175	450	450	450	750	450	750	450
3	175-225	450	450	450	750	450	1050	450
4	225-300	450	450	450	900	450	1200	450
5	300-450	600	600	600	1050	600	1350	600
6	450-600	750	750	750	1200	750	SAME AS FOR TYPE D-1	

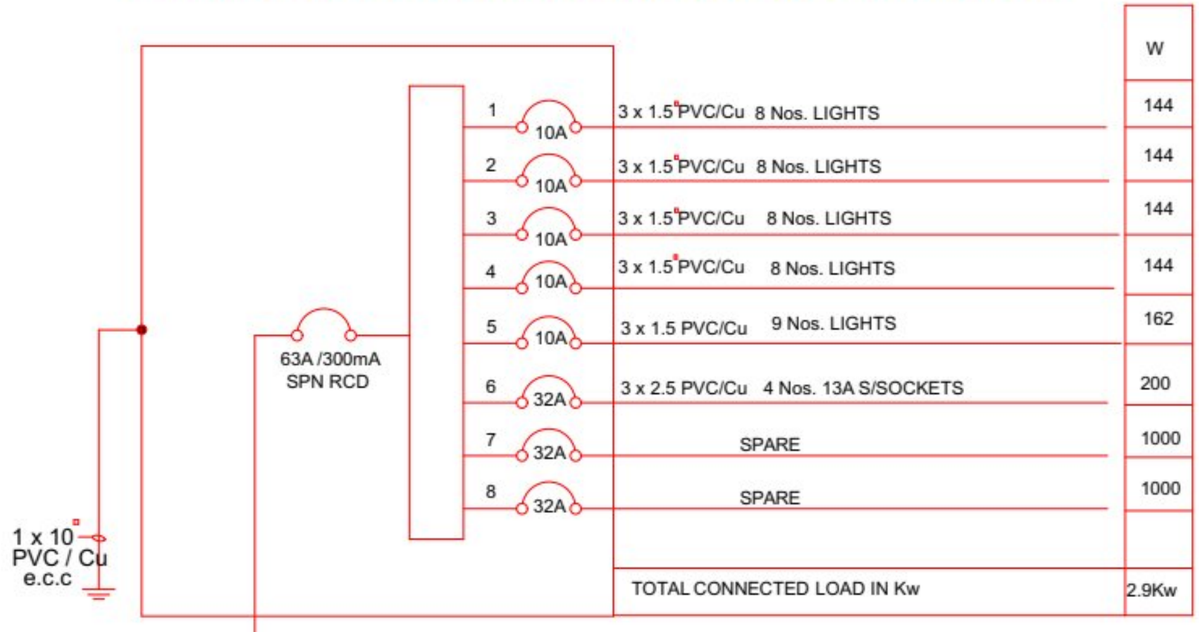
MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY PHYSICAL FACILITIES STANDARDS SECTION	SECONDARY SCHOOL DESIGN GUIDELINES	DRAWING TITLE : 80 STUDENTS DORMITORY CONTENT : MANHOLE DETAILS
		DRAWING NO: S/PL/DOM/06 SCALE: 1:50

ELECTRICAL DRAWINGS



MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY IN COLABORATION WITH PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT	PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM PROPOSED 80 STUDENTS DORMITORY	DRAWING TITLE: FLOOR PLAN - LIGHTING&POWER LAYOUT DRAWING NO: ELECT/DORM/01	Date	Jun 2023
			Drawn by	EEC
			Checked by	EEC
			Scale	NTS

ADMINSTRATION BLOCK URBAN DISTRIBUTION BOARD



8 WAY SPN DISTRIBUTION BOARD WITH MCBs
AND INTEGRAL 63A/300mA SPN RCD INCOMER
AS ABB or Approved Equal, FOR FLUSH MOUNTING

3Cx16mm^2 PVC/SWA/PVC/Cu

FROM TANESCO LV POLE

MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY IN COLABORATION WITH PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM** PROPOSED 80 STUDENTS DORMITORY	**DRAWING TITLE:** **SCHEMATIC LAYOUT** **DRAWING NO: ELECT/DORM/02**	**DATE: Jun 2023** **DRAWN BY EEC** **CHECKED BY EEC** SCALE: NTS

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 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	2 gang 2way Switch	1500 mm AFFL
3	3 gang 1way Switch	
2	2 gang 1way Switch	1500 mm AFFL
4	4 gang 1way Switch	1500 mm AFFL
	Twin Switch Socket	450 mm AFFL
C	Ceilling light complete with energy saver/LED 11w	on ceiling level
	Earth point	

MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY IN COLABORATION WITH PRESIDENT'S OFFICE REGIONAL ADMINSTRATION AND LOCAL GOVERNMENT	**PROVISION OF PHYSICAL FACILITIES IN SECONDARY SCHOOLS FOR SECONDARY EDUCATION QUALITY IMPROVEMENT PROGRAM** PROPOSED 80 STUDENTS DORMITORY	**DRAWING TITLE:** **LEGEND** **DRAWING NO: ELECT/DORM/03**	**DATE: Jun 2023** **DRAWN BY EEC** **CHECKED BY EEC** SCALE: NTS