

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD DRAWINGS FOR SCHOOL FACILITIES.

Schedule of Materials, Labour & Drawings for Pre Primary Two
Classroom Block – Gable

PROJECT AREA

TANZANIA MAINLAND

Ministry of Education, Science and
Technology,

Government City - Mtumba,
AFYA -Street,
P. O. Box 10,
40479 DODOMA.

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

Schedule of Material

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|-----------|--|-------|----------------|-----------|--------|
| | <u>MATERIALS</u> | | | | |
| A | <u>SUB-STRUCTURE -PROVISIONAL</u> | | | | |
| 1 | <u>Strip Foundation - Grade 15 Plain</u> | | | | |
| | Aggregate (3/4") | 9 | M ³ | | |
| | Sand | 5 | M ³ | | |
| | Cement-50kgs (42.5) | 45 | Bags | | |
| 2 | <u>Foundation Walls</u> | | | | |
| | 6" Cement & Sand block - Minimum Strength 3.5 MPa | 1,050 | No | | |
| | Sand | 4 | M ³ | | |
| | Cement -50kgs (42.5) | 18 | Bags | | |
| 3 | <u>Moram, Hardcore & Site sterilization</u> | | | | |
| | Moram (4.5m ³ lorry) | 8 | Trips | | |
| | Hardcore 200mm thick - (4.5m ³ lorry) | 8 | Trips | | |
| | Sand | 6 | M ³ | | |
| | Aldrin solution or other and equal approved (1000mls) | 2 | Bottle | | |
| 4 | <u>Oversite Concrete 100mm thick - 15 grade ,Ground Beam and base column - 20 grade</u> | | | | |
| | DPM | 160 | M ² | | |
| | Cement -50kgs (42.5) | 115 | Bags | | |
| | Aggregates (1/2") | 19 | M ³ | | |
| | Sand | 10 | M ³ | | |
| | Reinforcement - 12mm diameter high tensile 460N/mm ² | 38 | PC'S | | |
| | Reinforcement - 8mm diameter high tensile 460N/mm ² | 34 | PC'S | | |
| | Binding Wire - 25kg | 8 | Kgs | | |
| | A252 Mesh 200 x 200x 6.16kg/m ² | 4 | PC'S | | |
| | Timber 1" X 10 " (5.2m long) | 15 | PC'S | | |
| | Timber 2" X 2" | 10 | PC'S | | |
| | Nails-4" | 10 | Kgs | | |
| | Nails-3" | 10 | Kgs | | |
| | Supporting props | 6 | PC'S | | |
| | SUB-TOTAL SUBSTRUCTURE | | | | |
| B. | <u>SUPERSTRUCTURE</u> | | | | |
| 1 | <u>Walls Ring beam & Columns</u> | | | | |
| | 6" Cement & Sand block - Minimum Strength 3.5 MPa - 230mm | 2,128 | No | | |
| | 6" Cement & Sand block - Minimum Strength 3.5 MPa - 150mm | 235 | No | | |
| | DPC 25m | 1 | Roll | | |
| | Sand | 11 | M ³ | | |
| | Cement-50kgs (42.5) | 75 | Bags | | |
| | Aggregates (1/2") | 4 | M ³ | | |
| | Reinforcement - 12mm diameter high tensile 460N/mm ² | 24 | PC'S | | |
| | Reinforcement - 8mm diameter high tensile 460N/mm ² | 25 | PC'S | | |

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|-----------|--|-----|--------|-----------|--------|
| | Binding Wire - 25kg | 8 | Kg | | |
| | Timber 1" X 10" to Sides (5.2m long) | 18 | PC'S | | |
| | Timber 1" X 5" (Plates) | 4 | PC'S | | |
| | Timber 2" X 2" | 10 | PC'S | | |
| | Supporting Props | 10 | PC'S | | |
| | SUB-TOTAL SUPER STRUCTURE | | | | |
| C. | <u>ROOF STRUCTURE & COVERING</u> | | | | |
| 1 | <u>Roof Structure - Provisional</u> | | | | |
| | Timber 2 " X 3" Purlins | 50 | PC'S | | |
| | Timber 2" X 4" King Post, wall plate and struts | 78 | PC'S | | |
| | Timber 2" X 6" Rafter and Tie beam | 60 | PC'S | | |
| | Fascia board 1" X 10" -ref. Semi Hardwood (5.2m long) | 13 | PC'S | | |
| | Nails -5" | 50 | Kgs | | |
| | Nails -4" | 30 | Kgs | | |
| | Nails -3" | 15 | Kgs | | |
| | 16mm diameter bolt | 26 | Pc's | | |
| | NOTE: The above softwood timber structure should be pressure impregnated treated | | | | |
| 2 | <u>Roof Covering</u> | | | | |
| | 28G IT5 resin coated sheet size 3000x900mm | 102 | PCS | | |
| | Hips/Ridge and valley - 28 G IT resin coated | 9 | PC'S | | |
| | Roofing Nails | 23 | Packet | | |
| 3 | <u>Gutter's</u> | | | | |
| | Upvc 100mm half round (6m long)-5" | 7 | PC'S | | |
| | Upvc 75mm diameter down pipe; Class B | 2 | PC'S | | |
| | PVC outlet | 2 | PC'S | | |
| | Gutter support bracket | 16 | PC'S | | |
| | PVC bend 90' | 2 | PC'S | | |
| | PVC bend 45' | 4 | PC'S | | |
| | Gutter Clamp 3" | 28 | PC'S | | |
| | Connector/reducer | 8 | PC'S | | |
| | Connector outer | 2 | PC'S | | |
| | Corner Inner | 2 | PC'S | | |
| | Water storage tank; 5000 litres capacity with dust and insect proof lid; 20mm 3Nr tank connectors; 25mm 1Nr wash - out tank connector; 20mm high pressure ball float operated stop valve; all connections to IPS | 1 | PC'S | | |
| | SUB-TOTAL ROOF STRUCTURE & COVERING | | | | |
| D. | <u>CEILING</u> | | | | |
| | Gypsum board -9mm thick | 56 | PC'S | | |
| | Plain Cornice (8ft) | 40 | PC'S | | |
| | Screw 1.25" 500pcs/box | 3 | Box | | |
| | Gypsum powder | 10 | Bags | | |
| | Fiber tape (90m) | 2 | Roller | | |
| | Treated softwood Timber 2" X 2" | 100 | PC'S | | |
| | Nails 4" | 20 | Kgs | | |
| | Nails 3" | 25 | Kgs | | |
| | SUB-TOTAL FOR CEILING | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|-----------|--|-----|----------------|-----------|--------|
| E. | <u>DOOR</u> | | | | |
| 1 | <u>40mm thick hardwood Matchboarded door shutter</u> | | | | |
| | 820 x 2100mm high | 2 | PC'S | | |
| 2 | <u>45 X 145mm Frames (hardwood),Varnish</u> | | | | |
| | 900 x 2500 mm high frame | 2 | PC'S | | |
| | 5mm thick clear glass to Vents | 1 | m2 | | |
| | 16mm diametere burglar bars -1100mm long | 6 | Pcs | | |
| | Brush 3" | 3 | Pcs | | |
| | Sand paper (msasa) No.80 | 3 | LM | | |
| | Clear Varnish - 4Litres | 1 | TIN | | |
| | Thinner for Varnish | 3 | Litres | | |
| 3 | <u>Ironmongeries - ref Union</u> | | | | |
| | Mortice lock Three lever | 2 | No | | |
| | Brass hinges - 100mm | 3 | Pairs | | |
| | SUB-TOTAL FOR DOORS | | | | |
| F. | <u>WINDOWS</u> | | | | |
| | <u>Aluminium sliding Window comprising 100mm x 1.2mm thick standard aluminium profile ex-china/Turkey infill with 5mm thick glass complete with mosquito proofing panel, including all accessories, ironmongeries, cutting and pinning lugs</u> | | | | |
| | 1500 X 2000mm high | 10 | PC'S | | |
| | SUB-TOTAL FOR WINDOWS | | | | |
| G. | <u>FINISHING</u> | | | | |
| 1 | <u>Floor finishing</u> | | | | |
| | <u>Bedding/Backing; cement sand and Chipping (1:2:2); to steel finishing</u> | | | | |
| | 40mm Thick granolithic floor screed steel trowelling to smooth finishing | | | | |
| | Sand | 9 | M ³ | | |
| | Cement-50kgs (42.5) | 58 | Bags | | |
| | Chipping "1/4" | 13 | M ³ | | |
| | 2mm thick plastic Strips | 205 | M | | |
| 2 | <u>Wall Finishing -15mm thick (1:4)</u> | | | | |
| | Sand | 12 | M ³ | | |
| | Cement-50kgs | 78 | Bags | | |
| | Sand paper (msasa) No.120 | 10 | M | | |
| | White cement - 40kg | 5 | Bags | | |
| | Gypsum powder | 11 | Bags | | |
| | SUB-TOTAL FOR FINISHING | | | | |
| H. | <u>BALUSTERS & HANDRAIL</u> | | | | |
| | Supply and fix steel balustrade overall height 900mm high, comprising 50mm diameter hollow section mild steel pipe top and bottom rail, 38mm diameter intermediate rails, 50mm diameter vertical rails 900mm high spaced at interval of 450mm centres to centres including all bolts, plates and associated accessories and welded works, red oxed and painted as per architectural drawing to the aproval of Project Surpervisor. | 18 | m | | |
| | SUB-TOTAL BALUSTERS & HANDRAIL | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|-----------|--|-----|---------|-----------|--------|
| J. | <u>PAINTING & DECORATION</u> | | | | |
| | Emulsion Paint - 20 LTRS | 9 | buckets | | |
| | Weather guard Paint - 20 LTRS | 3 | buckets | | |
| | Washable paint -20 LTRS | 3 | buckets | | |
| | Primer paint -20 LTRS | 2 | buckets | | |
| | Solvent - 5LTRS | 2 | TIN | | |
| | Brush 3" | 4 | Pcs | | |
| | Roller | 4 | Pcs | | |
| | Blackboard paint | 4 | Litres | | |
| | Gloss paint-4LTR | 3 | TIN | | |
| | Bitumen paint - 4Litres | 4 | TIN | | |
| | SUB-TOTAL FOR PAINTING&DECORATION | | | | |
| K. | <u>ELECTRICAL INSTALLATION</u> | | | | |
| | Single fluorescent fitting Complete,LED philips or other equal approved | 18 | No | | |
| | Double switch socket ABB or other equal approved | 2 | No | | |
| | Main switch 6way,1PH with integral RCD 100A/300mA ABB other equal approved | 1 | No | | |
| | NB: Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved | | | | |
| | Single core wire 1.5sqmm - Red | 2 | Roll | | |
| | Single core wire 1.5sqmm - Black | 2 | Roll | | |
| | Single core wire 1.5sqmm -green | 2 | Roll | | |
| | Single core wire 2.5sqmm - red | 50 | M | | |
| | Single core wire 2.5sqmm | 50 | M | | |
| | Single core wire 2.5sqmm green | 50 | M | | |
| | Ceiling fan National or other equal approved | 12 | PC's | | |
| | 3gang 1 way switch ABB or other equal approved | 4 | No | | |
| | 1gang 1 way switch ABB or other equal approved | 1 | No | | |
| | 2gang 1 way switch ABB or other equal approved | 2 | No | | |
| | Earth rod approved copper 16mm not less than 1200mm | 1 | No | | |
| | Earth wire 4sqmm | 20 | M | | |
| | Metal box twin | 2 | No | | |
| | Metal box single | 7 | No | | |
| | Junction box | 20 | No | | |
| | Conduit pipe | 120 | PC's | | |
| | Elbow | 20 | PC's | | |
| | Conduit coupling | 20 | PC's | | |
| | Round cover | 10 | PC's | | |
| | Round box | 10 | PC's | | |
| | Fine screw | 2 | PACKET | | |
| | plastic clips 22mm | 2 | BOX | | |
| | Bulk head light fitting | 4 | PCS | | |
| | SUB-TOTAL FOR ELECTRICAL INSTALLATION | | | | |

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

| | | | | | |
|--|---|--|--|--|--|
| | <u>ADD:</u> | | | | |
| | LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective Labour form) | | | | |
| | Note: | | | | |
| | i. Refer specification and number of Furniture(s) for Pre primary schools | | | | |
| | ii. Refer General Summary for: Preliminary, Transportation and Supervision Costs | | | | |
| | iii. Preliminary cover the following item: | | | | |
| | - Setting out working tools, Equipments, Temporary toilets, water for the works, Scaffolding, | | | | |
| | - Power for the works, Security, store, Materials test, levelling, holdings and removal of rubbish. | | | | |
| | iv. Supervision cost depend on guideline of the specific project | | | | |
| | v. Installation of Ceiling Fan is an option, depend on whether condition of specific area . | | | | |

THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROPOSED STANDARD DRAWINGS FOR SCHOOL FACILITIES.

Schedule of Materials, Labour & Drawings for Three stances Toilet
block for Pre Primary school

PROJECT AREA

TANZANIA MAINLAND

Ministry of Education, Science and
Technology,

Government City - Mtumba,
AFYA -Street,
P. O. Box 10,
40479 DODOMA.

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

Schedule of Material

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|----------|---|-----|----------------|-----------|--------|
| | <u>MATERIALS</u> | | | | |
| A | SUB-STRUCTURE -PROVISIONAL | | | | |
| 1 | <u>Strip Foundation - Grade 15 Plain</u> | | | | |
| | Aggregate (3/4") | 3 | M ³ | | |
| | Sand | 2 | M ³ | | |
| | Cement-50kgs (42.5) | 14 | Bags | | |
| 2 | <u>Foundation Walls</u> | | | | |
| | 6" Cement & Sand block - Minimum Strength 3.5 MPa | 250 | No | | |
| | Sand | 2 | M ³ | | |
| | Cement -50kgs (42.5) | 5 | Bags | | |
| 3 | <u>Moram, Hardcore & Site sterilization</u> | | | | |
| | Moram (4.5m ³ lorry) | 1 | Trips | | |
| | Hardcore (4.5m ³ lorry) | 1 | Trips | | |
| | Sand | 2 | M ³ | | |
| | Aldrin solution or equal 1000mls | 1 | Bottle | | |
| 4 | <u>Oversite Concrete (100mm thick - 20 grade) & Ground Beam - 20 grade, columns and Ramp</u> | | | | |
| | DPM | 15 | M ² | | |
| | Cement -50kgs (42.5) | 8 | Bags | | |
| | Aggregates (1/2") | 2 | M ³ | | |
| | Sand | 2 | M ³ | | |
| | Reinforcement - 12mm diameter high tensile | 8 | PC'S | | |
| | Reinforcement - 8mm diameter | 7 | PC'S | | |
| | Binding Wire | 3 | Kg | | |
| | A252 Mesh 200 x200x6.16kg/m2 | 1 | PC'S | | |
| | Timber 1" X 10 " (3.6m long) | 5 | PC'S | | |
| | Timber 2" X 2" | 2 | PC'S | | |
| | Nails-4" | 3 | Kgs | | |
| | Nails-3" | 3 | Kgs | | |
| | Supporting props | 2 | PC'S | | |
| | SUB-TOTAL SUBSTRUCTURE | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|-----------|--|-----|----------------|------------|--------|
| B. | SUPERSTRUCTURE | | | | |
| 1 | <u>Walls & Ring beam & Columns</u> | | | | |
| | 6" Cement & Sand block - Minimum Strength 3.5 M | 558 | No | | |
| | Cement & Sand Perforated blocks | 0 | No | | |
| | DPC 25m long x 1m wide) | 5 | M | | |
| | Sand | 4 | M ³ | | |
| | Cement-50kgs (42.5) | 15 | Bags | | |
| | Aggregates (1/2") | 1 | M ³ | | |
| | Reinforcement - 12mm diameter high tensile | 6 | PC'S | | |
| | Reinforcement - 8mm diameter | 4 | PC'S | | |
| | Binding Wire | 2 | kg | | |
| | A252 Mesh 200 x200x6.16kg | 0 | PC'S | | |
| | Timber 1" X 10" to Sides (3.6m long) | 3 | PC'S | | |
| | Timber 1" X 6" (Plates) | 1 | PC'S | | |
| | Timber 2" X 2" | 3 | PC'S | | |
| | Supporting Props | 3 | PC'S | | |
| | | | | | |
| | SUB-TOTAL SUPER STRUCTURE | | | | |
| | | | | | |
| C. | ROOF STRUCTURE & COVERING | | | | |
| 1 | <u>Roof Structure - Provisional (3.6m long)</u> | | | | |
| | Timber 2 " X 3" Purlins | 4 | PC'S | | |
| | Timber 2" X 4" Wall plate,Rafter | 5 | PC'S | | |
| | Fascia board 1" X 8" | 4 | PC'S | | |
| | Nails -5" | 2 | Kgs | | |
| | Nails -4" | 2 | Kgs | | |
| | Nails -3" | 2 | Kgs | | |
| | <u>NOTE:</u> The above softwood timber structure should be pressure impregnated treated | | | | |
| | | | | | |
| 2 | <u>Roof Covering</u> | | | | |
| | 28G IT5 resincoated sheet 3m long | 5 | Pcs | | |
| | Roofing Nails | 1 | Packet | | |
| | TO COLLECTION | | | C/F | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|-----------|---|-----|--------|------------|--------|
| | ROOF STRUCTURE & COVERING CONT... | | | | |
| | | | | B/F | |
| 3 | <u>Gutter's</u> | | | | |
| | Upvc 100mm half round (6m long)-5" | 1 | PC'S | | |
| | Upvc 75mm diameter down pipe; Class B | 1 | PC'S | | |
| | PVC outlet | 1 | PC'S | | |
| | PVC bend 45' | 1 | PC'S | | |
| | Gutter support bracket | 4 | PC'S | | |
| | Gutter Clamp 3" | 1 | PC'S | | |
| | Connector | 1 | PC'S | | |
| | Connector outer | 1 | PC'S | | |
| | Corner Inner | 1 | PC'S | | |
| | SUB-TOTAL ROOF STRUCTURE & COVERING | | | | |
| D. | DOOR | | | | |
| 1 | <u>40mm thick hardwood (mninga) or equal and aproved paneled door shutter</u> | | | | |
| | 920 x 2100mm high | 1 | PC'S | | |
| | 720 x 2100mm high | 2 | PC'S | | |
| 2 | <u>Frames (hardwood),Varnish, Glass & Burglar bar</u> | | | | |
| | 1000 x 2500 mm high frame | 1 | PC'S | | |
| | 800 x 2500 mm high frame | 2 | PC'S | | |
| | Brush 3" | 1 | Pcs | | |
| | Sand paper (msasa) No.80 | 1 | LM | | |
| | Clear Varnish - 4Litres | 1 | TIN | | |
| | Thinner for Varnish -4Litres | 1 | Litres | | |
| | Door grill with 38mm x 4mm flat bars, 25mm x 25mm square pipespainted with red oxide | | | | |
| | 1000 x 1500mm high | 1 | No | | |
| | 1000 x 750mm high | 3 | No | | |
| 3 | <u>IronMongerries - ref Union</u> | | | | |
| | Barrel bolt with pad lock | 3 | No | | |
| | Flush bolt | 3 | No | | |
| | Brass hinges - 100mm | 5 | Pairs | | |
| | SUB-TOTAL FOR DOORS | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|-----------|--|-----|----------------|-----------|--------|
| E. | FINISHING | | | | |
| 1 | <u>Floor finishing</u> | | | | |
| | Bedding/Backing; cement sand (1:2); to steel finishing | | | | |
| | Sand | 1 | M ³ | | |
| | Cement-50kgs (42.5) | 2 | Bags | | |
| | 300 x 300 x 8mm Non slippery Porcelain floor tiles (1.35 sqm per Box) | 5 | Box | | |
| 2 | <u>Wall Finishing</u> | | | | |
| | Sand | 2 | M ³ | | |
| | Cement-50kgs | 4 | Bags | | |
| | 250 X 400 x 8mm Wall tiles (1.5 Sqm/Box) | 18 | Box | | |
| | Wall Puty | 4 | Bags | | |
| | SUB-TOTAL FOR FINISHING | | | | |
| F. | PAINTING & DECORATION | | | | |
| | Emulsion Paint - 20 LTRS | 2 | buckets | | |
| | Weather guard Paint - 10 LTRS | 1 | buckets | | |
| | Washable paint -10 LTRS | 1 | buckets | | |
| | Primer paint -5 LTRS | 1 | buckets | | |
| | Solvent - 5LTRS | 1 | TIN | | |
| | Brush 3" | 2 | Pcs | | |
| | Roller | 1 | Pcs | | |
| | Gloss paint-4LTR | 1 | TIN | | |
| | Bitumen paint - 4Litres | 1 | TIN | | |
| | SUB-TOTAL FOR PAINTING&DECORATION | | | | |
| G. | PLUMBING & SANITARY INSTALLATION-PROVISIONAL | | | | |
| | Semi pedestal Hand washing basin complete | No | 2 | | |
| | WC Asian type complete with p-trap 9 liters single flush cistern | No | 2 | | |
| | Shataf stainless steel 304, 1000mm long braided hose . | No | 2 | | |
| | Angle Valve chrome plated brass | No | 9 | | |
| | HWB PVC-U trap 1.1/4" Falcon | No | 2 | | |
| | Looking mirror (600mm by 800mm by 6mm) | No | 2 | | |
| | PVC-U Floor drainer/Trap 110mm | No | 1 | | |
| | Strainer albeetony/venus | No | 1 | | |
| | Ceramic toilet paper holder | No | 2 | | |
| | Toilet brush holder | No | 2 | | |
| | Complete set of walfare for person with disability, Western WC, stainless steel 304 grab bar, stainless steel 304 folding hand rail, HWB, Pillar tap, Floor drainer and bib cork | No | 1 | | |

| ITEM | DESCRIPTION OF WORKS | UNIT | QTY | PRICE | AMOUNT |
|------|---|------|-----|-------|--------|
| | <u>PIPES WORK IN BUILDING</u> | | | | |
| | A: SUPPLY PIPE PN 16 | | | | |
| | PPR/IPS pipes class B argentina 3/4" | Pcs | 2 | | |
| | PPR/IPS socket (20Ø) 3/4" | No | 3 | | |
| | PPR/IPS elbow (20Ø) 3/4" | No | 15 | | |
| | PPR/IPS tee (20Ø) 3/4" | No | 9 | | |
| | PPR/IPS nipple (20Ø) 3/4" | No | 10 | | |
| | PPR/IPS reducing bush (20Ø) 3/4" to 1/2"(15Ø) | No | 9 | | |
| | PPR/IPS pipes class B argentina 1"(32Ø) | Pcs | 2 | | |
| | PPR/IPS socket 1"(32Ø) | No | 6 | | |
| | PPR/IPS elbow 1"(32Ø) | No | 4 | | |
| | PPR/IPS tee 1"(32Ø) | No | 4 | | |
| | PPR/IPS nipple 1"(32Ø) | No | 10 | | |
| | PPR/IPS reducing bush (32Ø) 1" to 3/4"(20Ø) | No | 6 | | |
| | PPR/IPS pipes class B argentina 1 1/2"(50Ø) | Pcs | 2 | | |
| | PPR/IPS socket 1 1/2"(50Ø) | No | 6 | | |
| | PPR/IPS elbow 1 1/2"(50Ø) | No | 4 | | |
| | PPR/IPS tee 1 1/2"(50Ø) | No | 4 | | |
| | PPR/IPS nipple 1 1/2"(50Ø) | No | 4 | | |
| | PPR/IPS reducing bush (50Ø) 1 1/2" to 1"(32Ø) | No | 9 | | |
| | | | | | |
| | B: SOIL DRAINAGE PVC-U PN6 PIPES AND FITINGS - | | | | |
| | PVC-U pipe class B 1.1/4" | Pcs | 2 | | |
| | PVC-U elbow 1.1/4", 135deg | No | 3 | | |
| | PVC-U elbow 1.1/4", 90 deg | No | 4 | | |
| | PVC-U Ytee 1.1/4" | No | 2 | | |
| | PVC-U pipe class B 4" | Pcs | 2 | | |
| | PVC-U elbow 4" | No | 6 | | |
| | PVC-U Ytee 4" | No | 2 | | |
| | PVC-U WYES 4" | No | 1 | | |
| | PVC-U Tangit 1000g | No | 2 | | |
| | P-Trap ERA 4" | No | 1 | | |
| | PE 100 Gully trap 4",ERA | No | 1 | | |
| | | | | | |
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| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|------|--|------|------|-----------|--------|
| | EXTERNAL WORK | | | | |
| | A: Drainage works | | | | |
| | PVC-U pipe class B plascon 4" 6m | Pcs | 6 | | |
| | ManHole cover 600mm x 600mm medium | No | 4 | | |
| | Gully trap cover 300mm x 300mm medium | No | 3 | | |
| | B: Water Supply Pipe HDPE, PE100 | | | | |
| | 1.5" HDPE supply pipes Class C | m | 12 | | |
| | HDPE bend 1.5" | No | 2 | | |
| | HDPE Tee Polly to polly 1.5" | No | 3 | | |
| | HDPE polly coupling 1.5" | No | 4 | | |
| | 1.25" HDPE supply pipes Class C | m | 12 | | |
| | HDPE bend 1.25" | No | 5 | | |
| | HDPE Male connector 1.25" | No | 4 | | |
| | HDPE Tee Polly to polly 1.25" | No | 4 | | |
| | HDPE polly coupling 1.25" | No | 4 | | |
| | <u>VALVES AND CONTROLS</u> | | | | |
| | Bib cork pex/martex 1/2" PN 16 | No | 2 | | |
| | Gate valve pex/martex 3/4" PN 16 | No | 3 | | |
| | Ball valve 1 1/4" | No | 1 | | |
| | <u>WATER STORAGE TANK</u> | | | | |
| | 2,000litres water storage tank | No | 1 | | |
| | 1,000litres water storage tank | No | 1 | | |
| | Tank connector 1" | No | 2 | | |
| | Clamp 3" | PC'S | 1 | | |
| | SUB-TOTAL FOR PLUMBING & SANITARY INSTALLATION- | | | | |
| | | | | | |
| H. | RISER FOR WATER TANK (4M HIGH) | | | | |
| | 6" Cement & Sand block - Minimum Strength 3.5 MPa | 190 | No | | |
| | Cement-50kgs | 8 | Bags | | |
| | Aggregates (1/2") | 1 | M3 | | |
| | Sand | 3 | M3 | | |
| | Reinforcement - 12mm diameter high tensile | 4 | Pcs | | |
| | Binding Wire - 25kg | 1 | kg | | |
| | Timber 1" X 10" to Sides (3.6m long) | 6 | Pcs | | |
| | Nails-4" | 1 | kg | | |
| | Nails-3" | 1 | kg | | |
| | TOTAL; RISER FOR TANK | | | | |
| | | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|------|--|-----|------|-----------|--------|
| J. | MANHOLE,GULLY TRAP, SEPTIC TANK, SOAK PIT. | | | | |
| | MANHOLE: | | | | |
| | Construct standard manhole size 600 x 600mm average depth 850mm deep; | No | 3 | | |
| | GULLY TRAP | | | | |
| | Construct a standard gully trap 300×300mm deep | No | 3 | | |
| | SEPTIC TANK: | | | | |
| | Construct septic tank overall internal dimensions; size 3300 x 2400x 3000mm. | No | 1 | | |
| | SOAK PIT (S.P) | | | | |
| | Construct Soak pit overall size 3000mm diameter x 3500mm high | No | 1 | | |
| | TOTAL; MANHOLE,GULLY TRAP, SEPTIC TANK, SOAK PIT. | | | | |

| | | | | | |
|----|--|----|------|--|--|
| K. | <u>ELECTRICAL INSTALLATION</u> | | | | |
| | <u>PRE PRIMARY TOILET</u> | | | | |
| | Single fluorescent fitting Complete,LED philips or | 4 | No | | |
| | NB: Cables for 1.5sqmm 2.5sqmm and 4sqmm should be EURO or other equal approved | | | | |
| | Single core wire 1.5sqmm - Red | 30 | M | | |
| | Single core wire 1.5sqmm - Black | 30 | M | | |
| | Single core wire 1.5sqmm -green | 30 | M | | |
| | Twin cable wire 2.5sqmm | 30 | M | | |
| | 1gang 1 way switch ABB or other equal approved | 3 | No | | |
| | Ceiling light complete with energy saver 11w | 3 | No | | |
| | Metal box single | 3 | No | | |
| | Junction box | 3 | No | | |
| | Conduit pipe | 3 | PC's | | |
| | Elbow | 3 | PC's | | |
| | Conduit coupling | 3 | PC's | | |
| | Round cover | 3 | PC's | | |
| | Round box | 1 | PC's | | |
| | plastic clips 22mm | 1 | BOX | | |
| | | | | | |
| | SUB-TOTAL FOR ELECTRICAL INSTALLATIONS | | | | |
| | | | | | |
| | | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | PRICE-TZS | AMOUNT |
|------|---|-----|------|-----------|--------|
| | | | | | |
| L | Steel handrails to ramp | | | | |
| | Supply and fix steel support handrails 750mm high | | | | |
| | comprising 38mm diameter hollow section pipe | | | | |
| | top, bottom and vertical rails spaced at 300mm | | | | |
| | centres to centres as per Architectural drawings | 8 | m | | |
| | SUB-TOTAL FOR HANDRAILS | | | | |
| | | | | | |
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| | <u>GENERAL SUMMARY</u> | AMOUNT TZS |
|----|---|-------------------|
| | <u>2no stances with One Disability stances toilets block -Wet area</u> | |
| A. | SUB-STRUCTURE -PROVISIONAL | |
| B. | SUPERSTRUCTURE | |
| C. | ROOF STRUCTURE & COVERING | |
| D | DOOR | |
| E | FINISHING | |
| F | PAINTING & DECORATION | |
| G | PLUMBING & SANITARY INSTALLATION-PROVISIONAL | |
| H | RISER FOR WATER TANK | |
| J | MANHOLE, GULLYTRAP,SEPTIC TANK AND SOAK PIT | |
| K | ELECTRICAL INSTALLATIONS | |
| L | HANDRAILS TO RAMP | |
| | | |
| | TOTAL BUILDING MATERIALS CARRIED TO GENERAL SUMMARY | |
| | | |
| | <u>ADD:</u> | |
| | | |
| | LABOUR COST CARRIED TO GENERAL SUMMARY : (Improve and Fill the respective Labour form) | |
| | | |
| | Note: | |
| | i Refer General Summary for: Preliminary, Transportation and Supervision Costs | |
| | ii. Preliminary cover the following item: | |
| | - Setting out working tools, Equipments, Temporary toilets, water for the works, Scaffolding, | |
| | - Power for the works, Security, store, Materials test, levelling, holdings and removal of rubbish. | |
| | iii. Supervision cost depend on guideline of the specific project | |
| | | |
| | | |

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF EDUCATION SCIENCE AND TECHNOLOGY

IN COLLABORATIONS WITH

PRESIDENT'S OFFICE, REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS

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

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

JANUARY, 2023

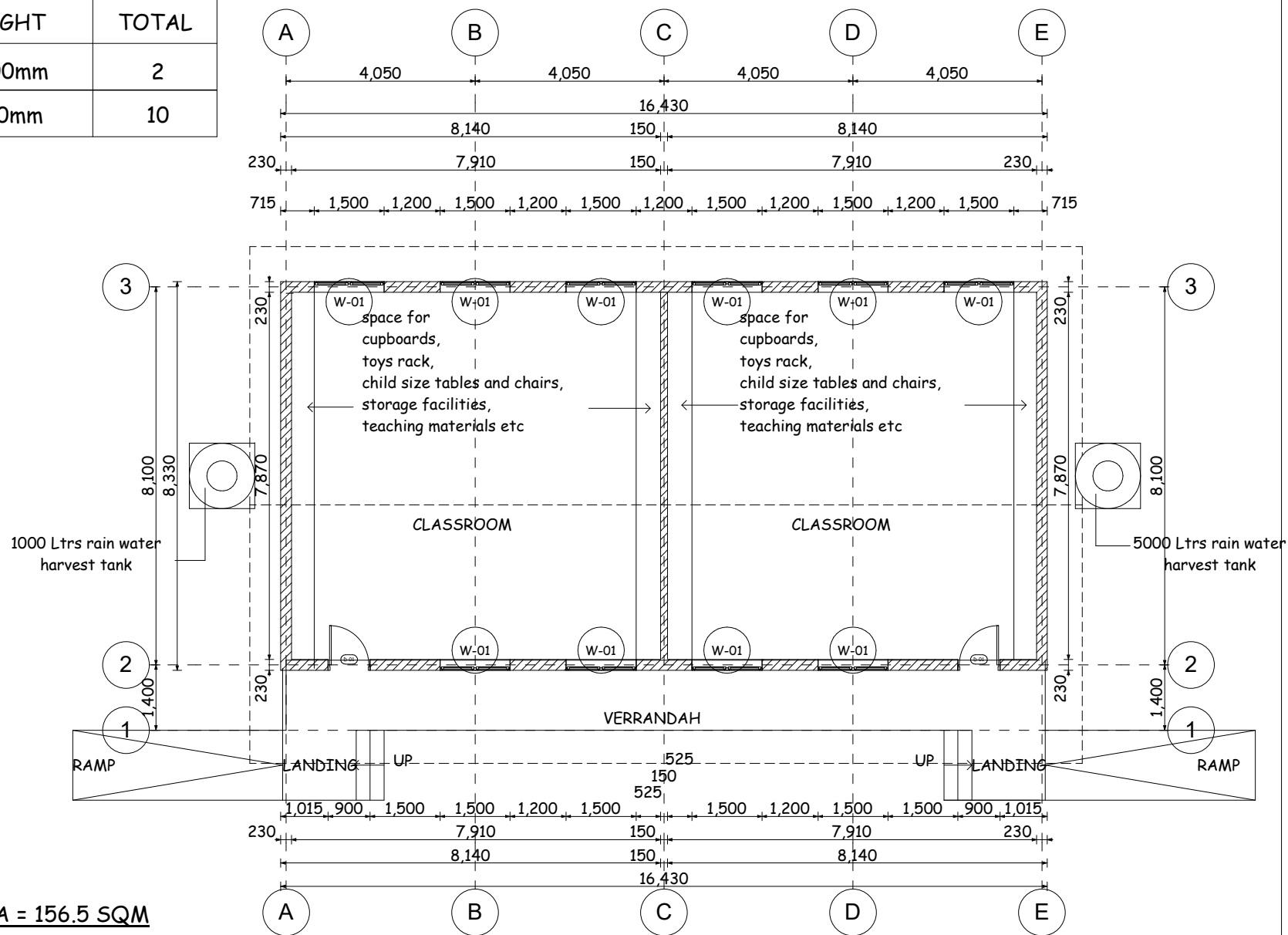
PRE PRIMARY SCHOOL DRAWINGS

ARCHITECTURAL DRAWINGS

PRE PRIMARY SCHOOL CLASSROOMS - GABLED

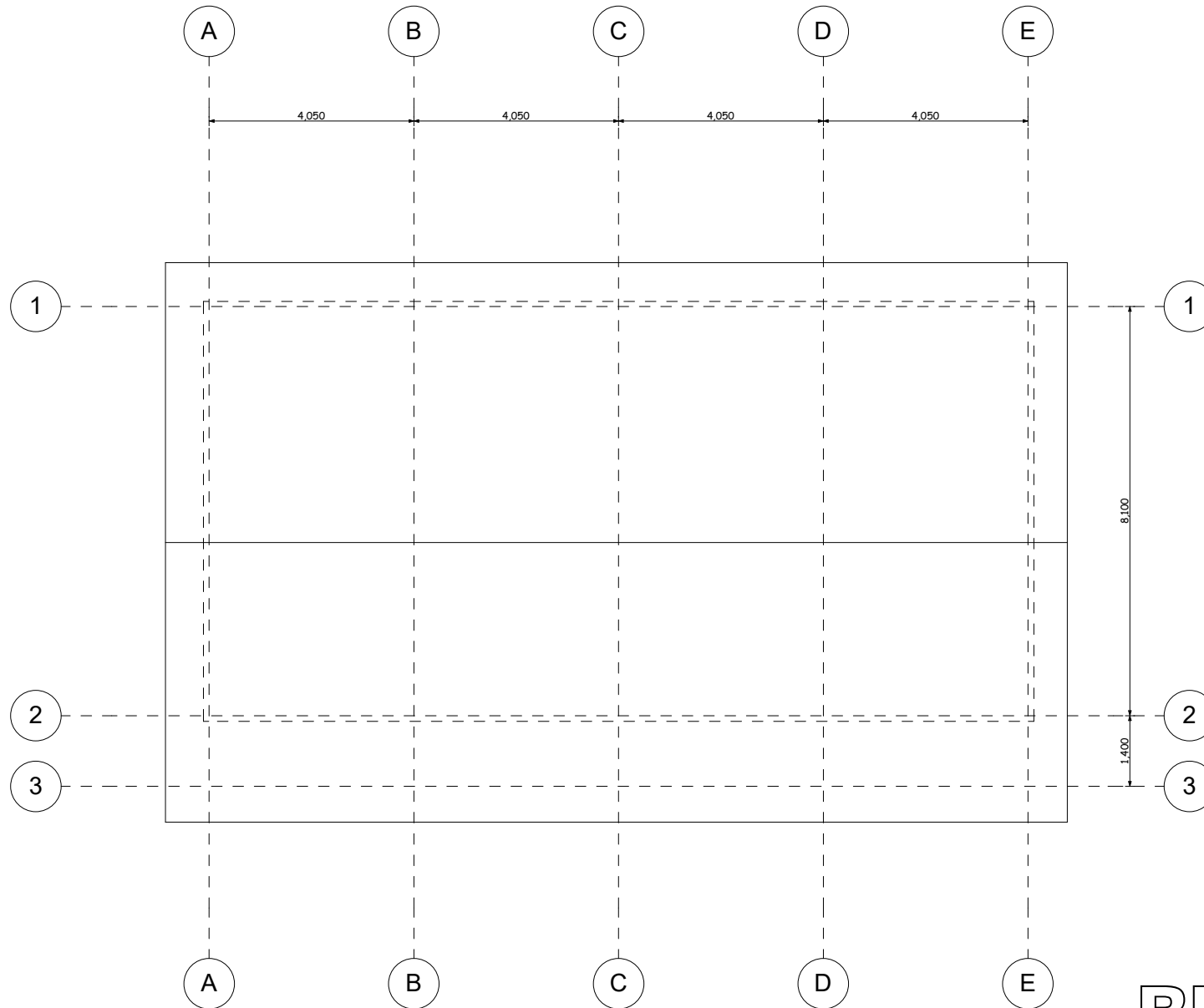
DOOR & WINDOW SCHEDULE

| NO. | WIDTH | HEIGHT | TOTAL |
|------|---------|---------|-------|
| D1 | 900mm | 2,500mm | 2 |
| W-01 | 1,500mm | 2,000mm | 10 |

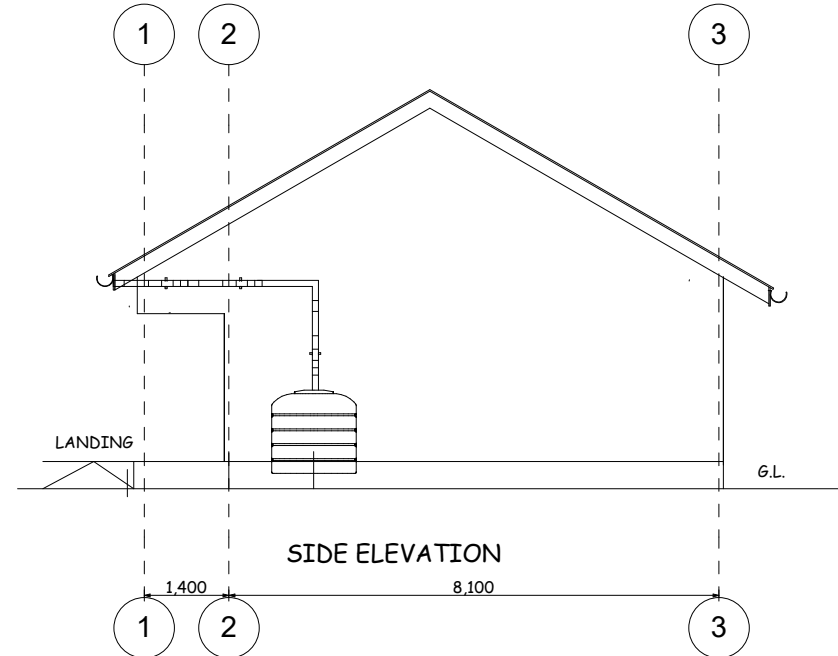
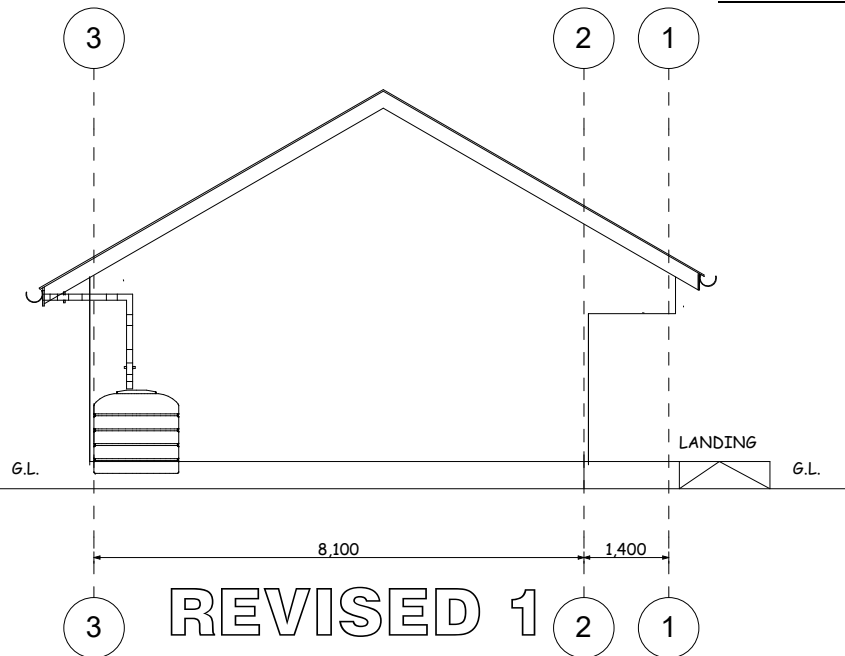
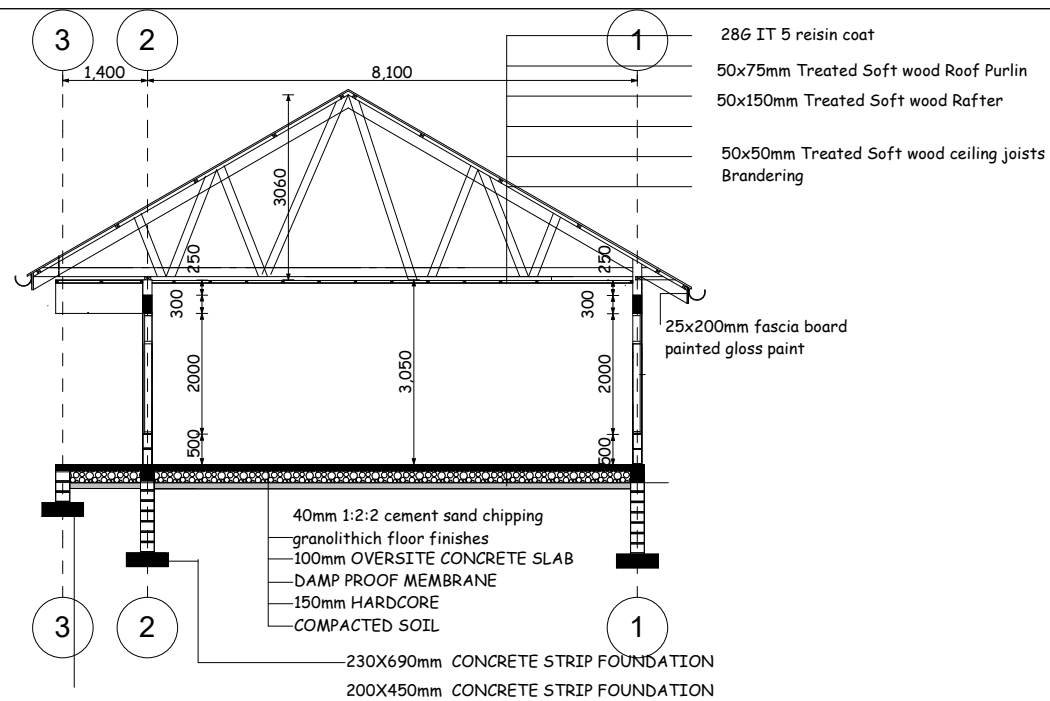


TOTAL FLOOR AREA = 156.5 SQM

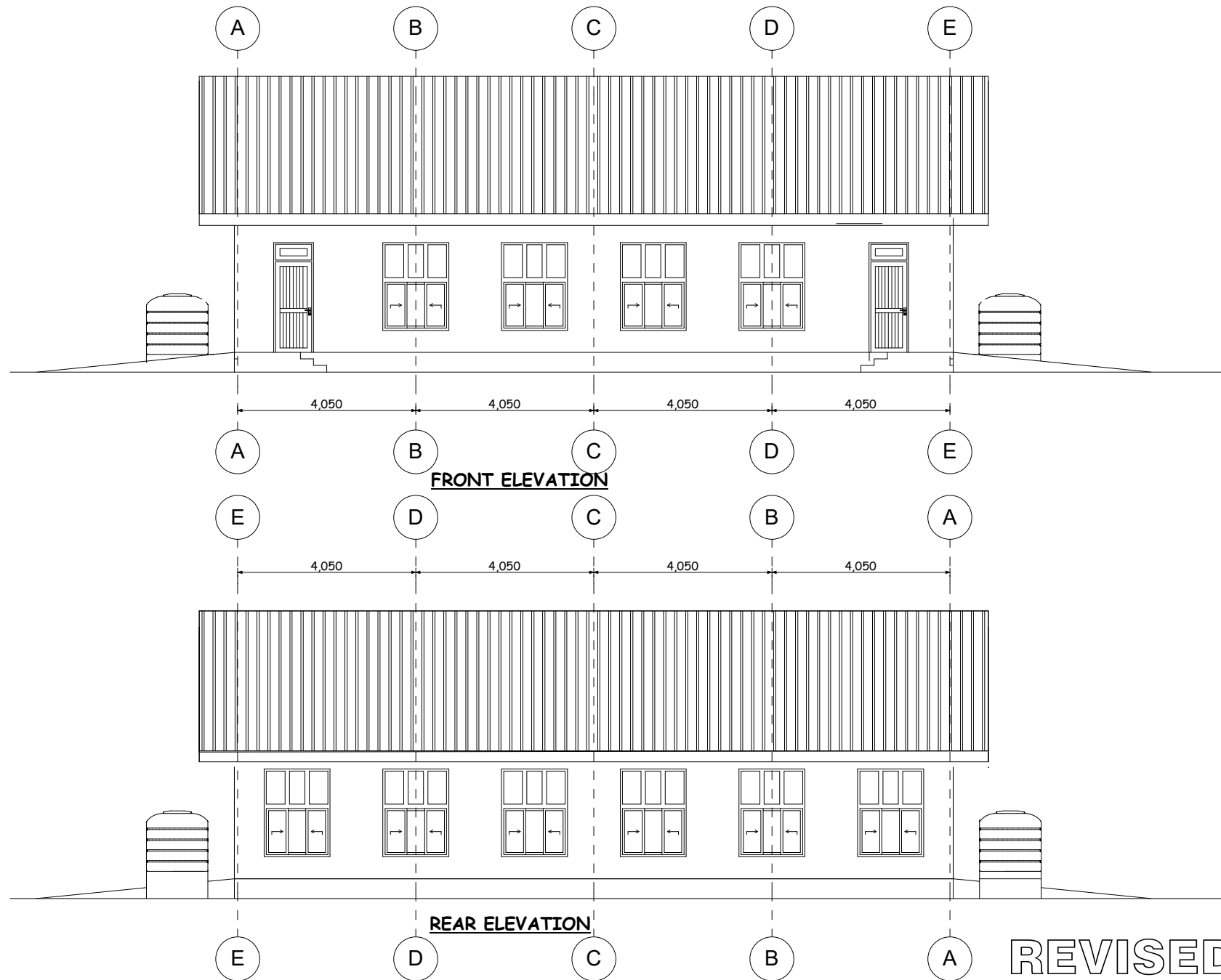
REVISED 1



REVISED 1



REVISED 1



STRUCTURAL DRAWINGS

FOR

PRE-PRIMARY CLASSROOM BLOCK TYPE A - 2 ROOMS - GABLE

NOTE:

1.

All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2.

All structural engineering drawings should be read in conjunction with relevant architectural drawings.
3.

All Reinforced concrete shall be Grade 20 - Nominal volumetric proportion 1: 2: 4 cube strength not less than 20N/mm² at 28 days.
4.

Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm².
5.

Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.
7.

Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8.

Clear cover for reinforcement shall be as follows:
 - Slabs25mm
 - Beams25mm
 - Columns25mm
 - Footings.....50mm
7.

All concrete work to be done in one operation.
8.

All steel fixing, shuttering and concreting works to be done under close supervision of Structural Engineer.
9.

Sand borrow pits shall be clean and free from organic materials and shall be approved by Structural Engineers before use.
10.

Minimum Compressive Strength for Blocks shall be 3.5N/mm².

PROJECT:

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MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

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PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT.

Designed by: Eng. J.M.S

Checked by: Eng. N.T.B

Approved by:

DRAWING TITLE:

PRE-PRIMARY -
CLASSROOMS BLOCK

FOUNDATION LAYOUT PLAN

(REVISED - 1)

DRAWING USE:

For Building permit:

For Construction:

Drawn by:

J.M.S

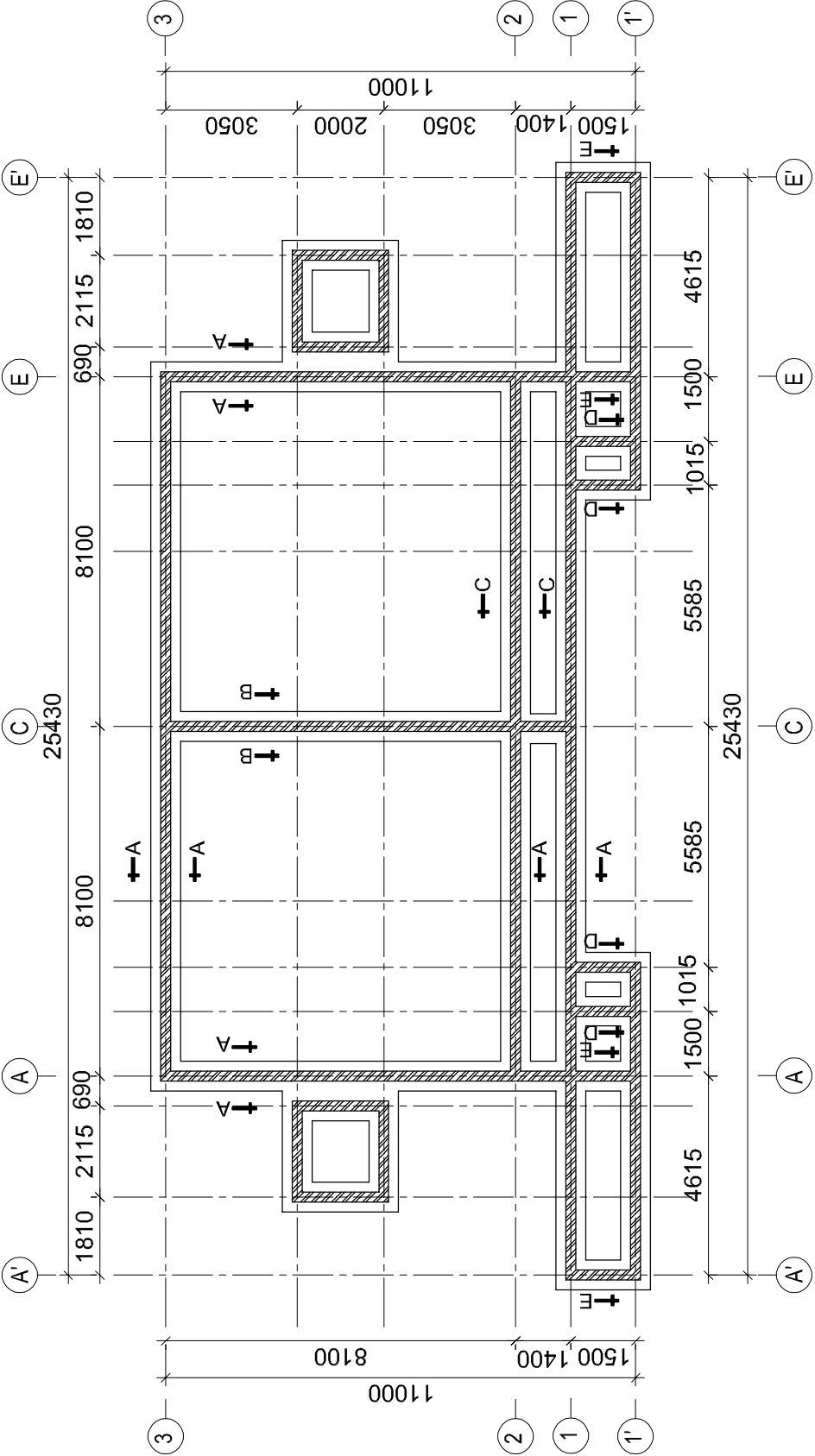
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2022

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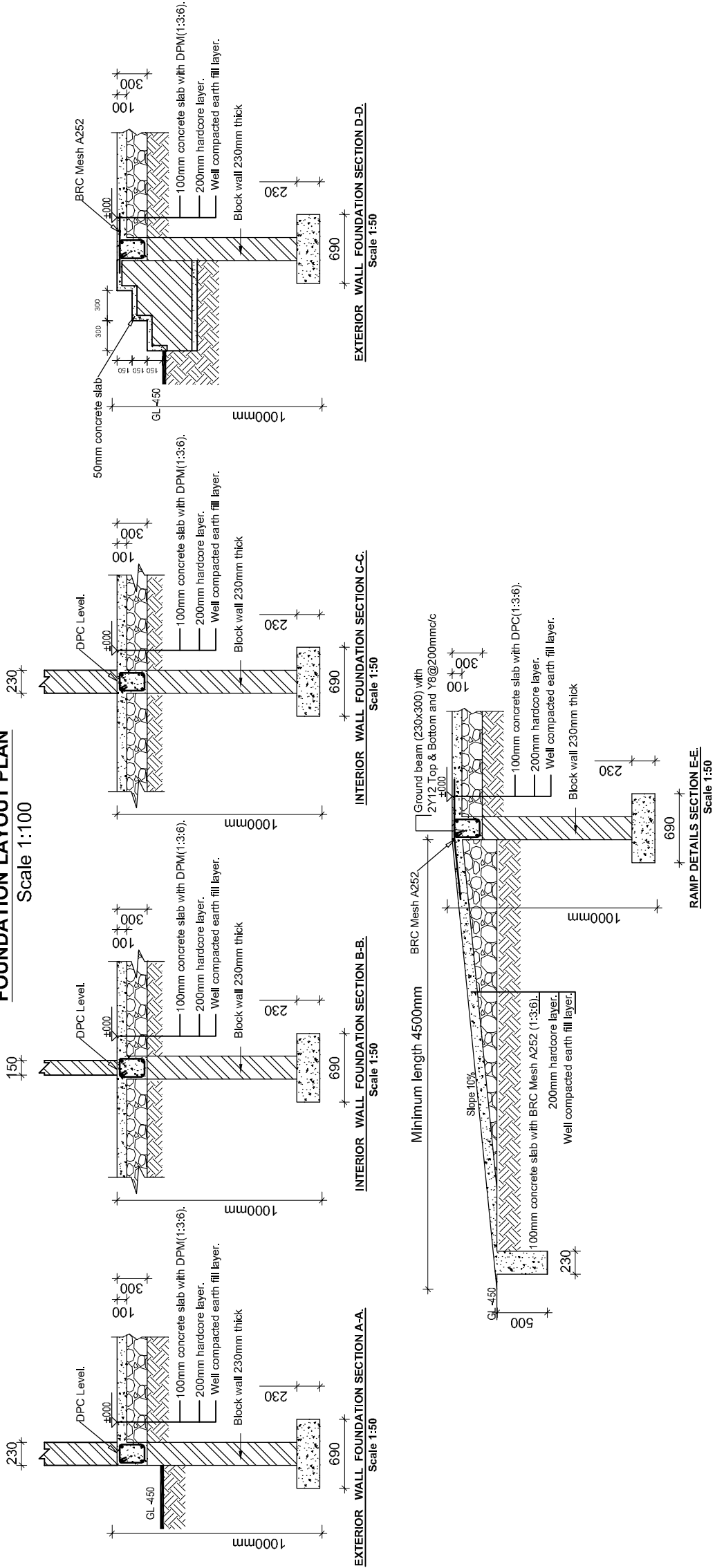
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Sheet: 01/07



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.
- Steel for reinforced concrete shall comply with BS4449 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:
 - Slabs25mm
 - Beams25mm
 - Columns25mm
 - Footings50mm
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- 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.

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REGIONAL ADMINISTRATION AND
LOCAL GOVERNMENT.

Designed by: Eng. J.M.S

Checked by: Eng. N.T.B

Approved by:

DRAWING TITLE:

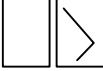
PRE-PRIMARY -
CLASSROOMS BLOCK

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

DRAWING USE:

For Building permit:

For Construction:



Drawn by:

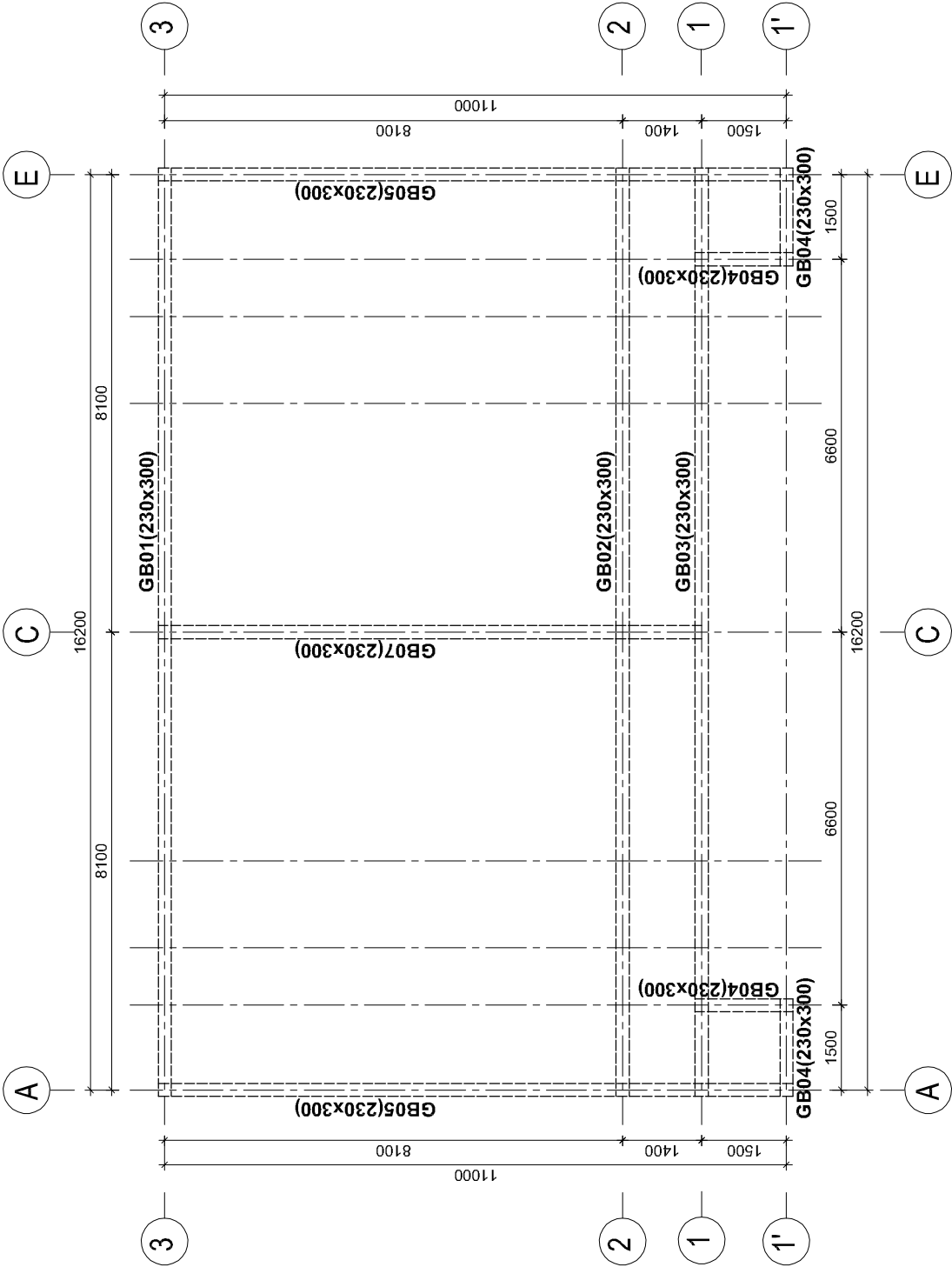
J.M.S

Date: 2022

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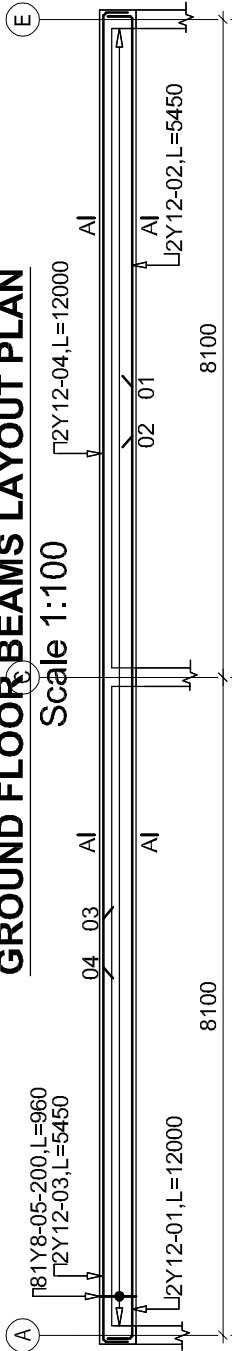
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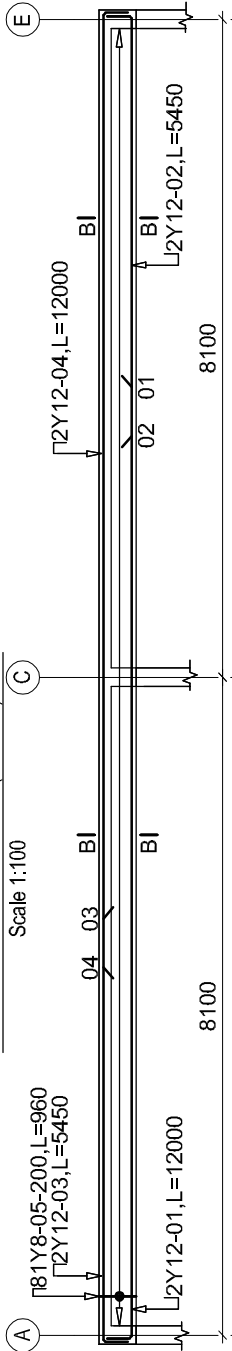
GROUND FLOOR BEAMS LAYOUT PLAN

Scale 1:100



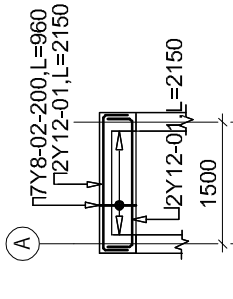
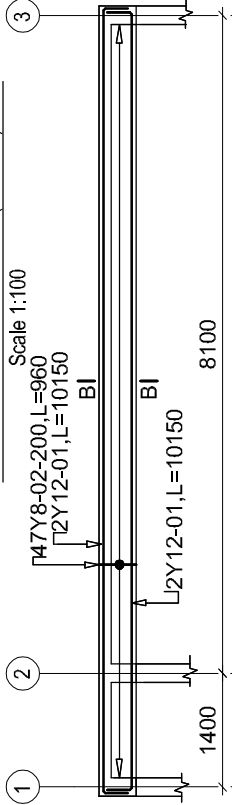
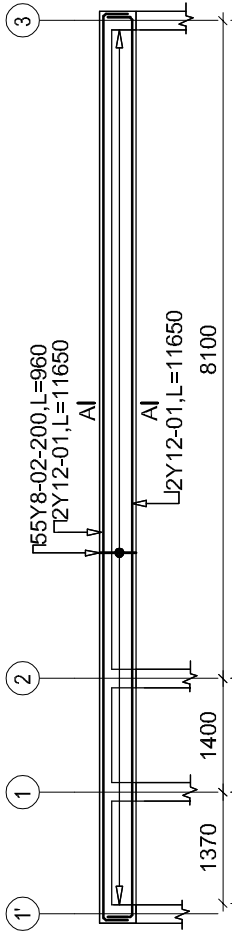
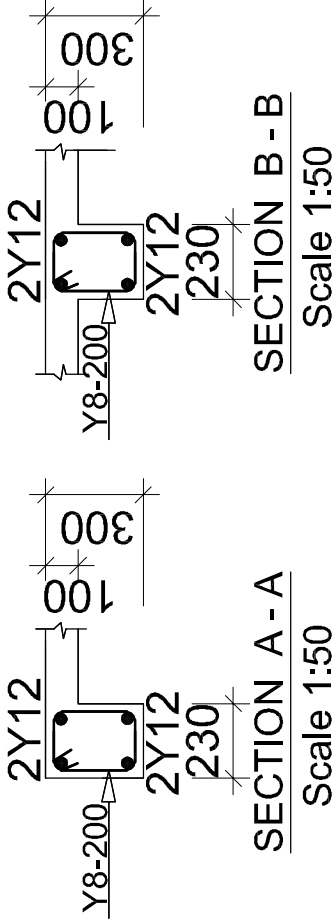
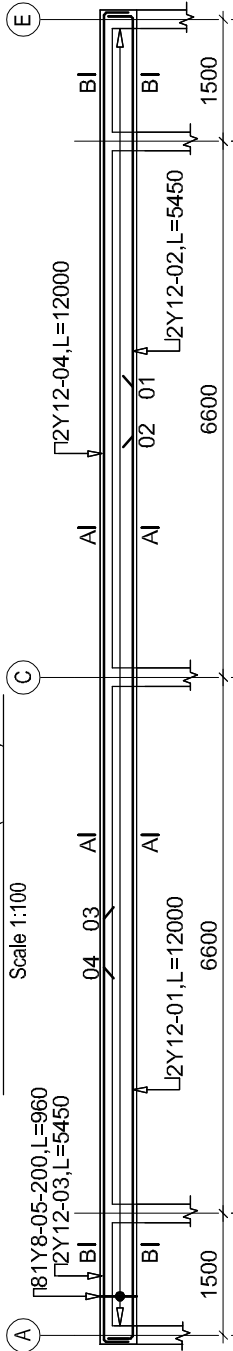
GROUND FLOOR BEAM GB02 (230x300) 1Nos

Scale 1:100



GROUND FLOOR BEAM GB03 (230x300) 1Nos

Scale 1:100



NOTE:-

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
2. All structural engineering drawings should be read in conjunction with relevant architectural drawings.
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4. Steel for reinforced concrete shall comply with BS4449 whereby fy = 460N/mm².
5. Bars lap length should be at least 50 times the diameter of the bars lapped. Structural Engineer shall be furnished with copies of the manufacturers certificates of tests for the steel reinforcement to be used.
7. Cement for works shall comply with BS12 and shall be "Ordinary Portland Cement"
8. Clear cover for reinforcement shall be as follows:

• Slabs25mm

• Beams25mm

• Columns25mm

• Footings50mm
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:

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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. N.T.B

Approved by:

DRAWING TITLE:

PRE-PRIMARY - CLASSROOMS BLOCK

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

DRAWING USE:

For Building permit:

For Construction:

Drawn by:

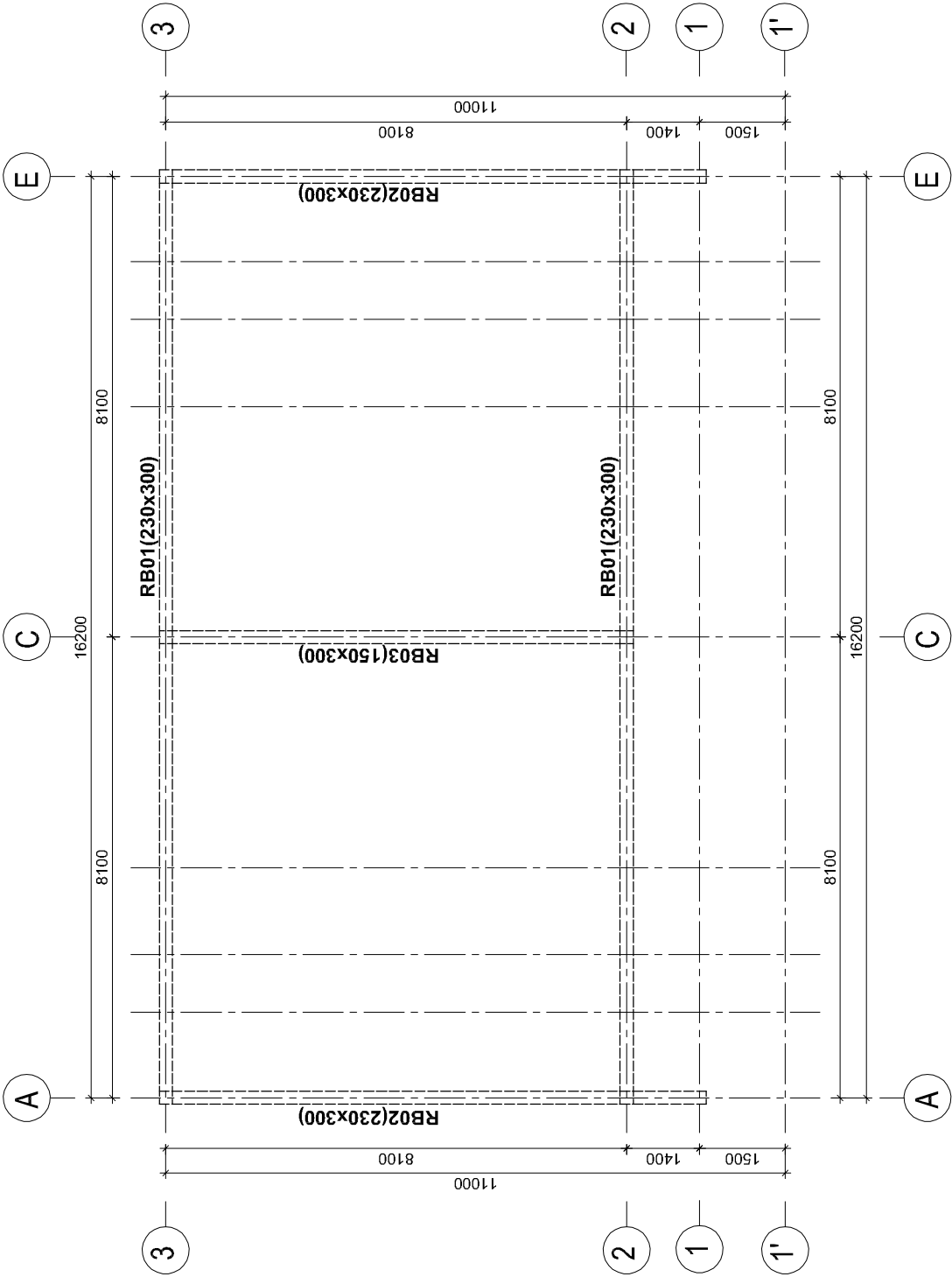
J.M.S

Date: 2022

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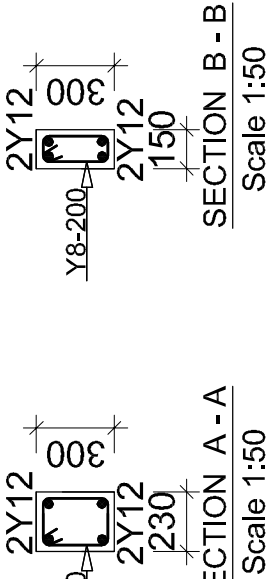
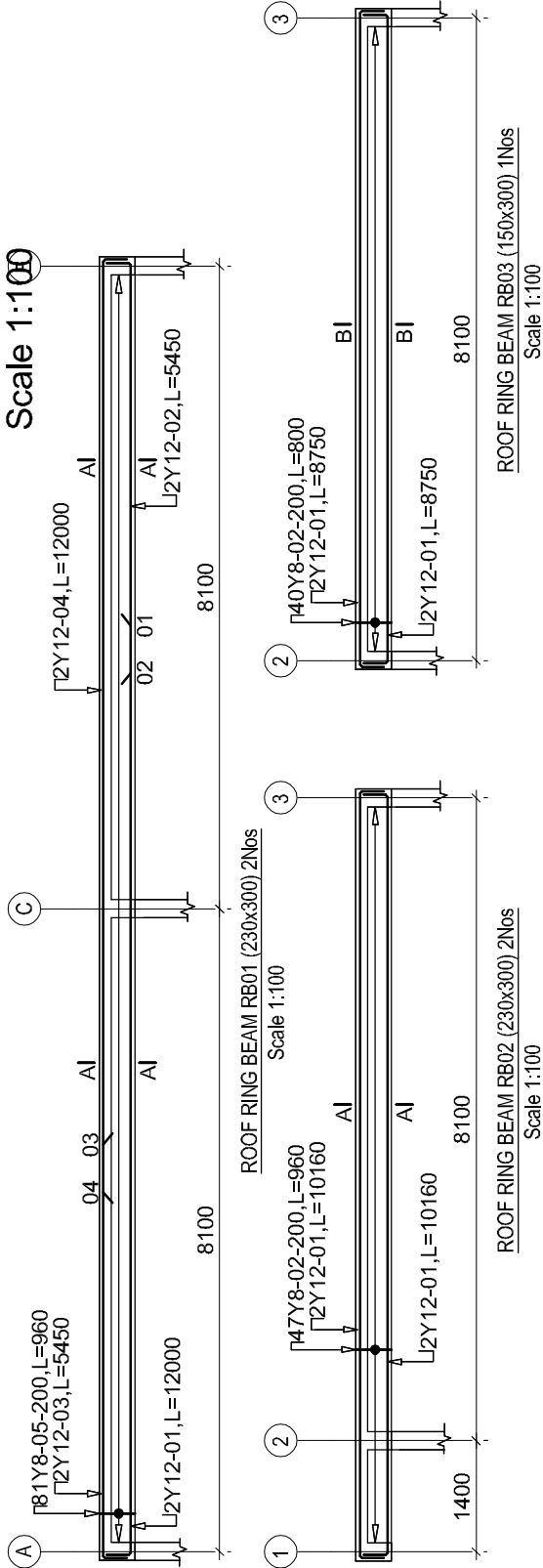
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ROOF RING BEAMS LAYOUT PLAN

Scale 1:100



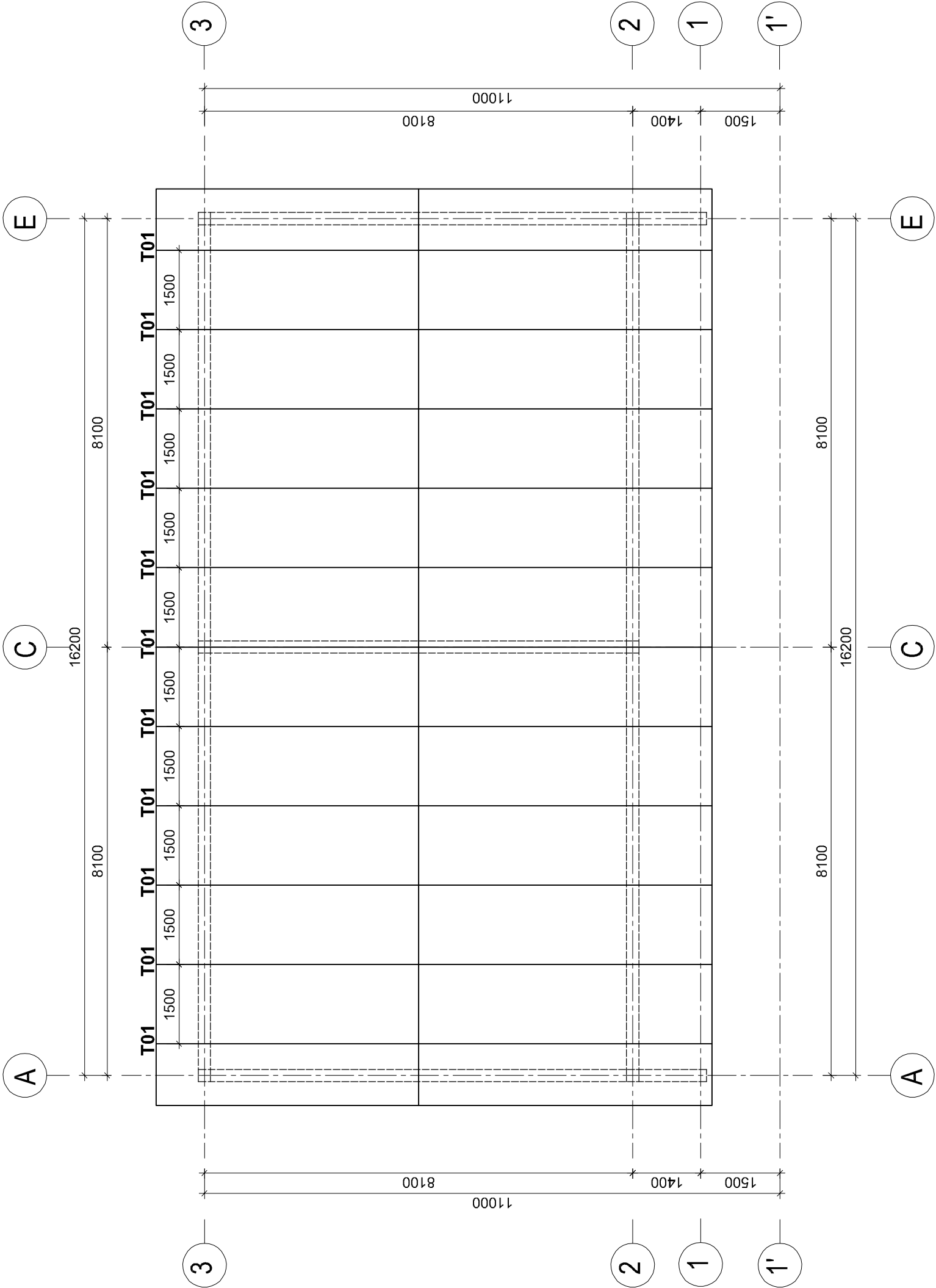
SECTION A - A
Scale 1:50

SECTION B - B
Scale 1:50

NOTE:-

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- All structural engineering drawings should be read in conjunction with relevant architectural drawings.
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- Minimum Compressive Strength for Blocks shall be 3.5N/mm².

| |
|--|
| PROJECT: PROVISION OF PHYSICAL FACILITIES IN PRIMARY SCHOOLS |
| MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY <i>IN COLLABORATION WITH</i> PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT. |
| Designed by: Eng. J.M.S Checked by: Eng. N.T.B Approved by: |
| DRAWING TITLE: PRE-PRIMARY - CLASSROOMS BLOCK ROOF TRUSS LAYOUT PLAN (REVISED - 1) |
| DRAWING USE: For Building permit: <input type="checkbox"/> For Construction: <input checked="" type="checkbox"/> |
| Drawn by: J.M.S |
| Date: 2022 |
| Drawing No:STR.CR |
| Scale: Sheet: 04/07 |



ROOF TRUSS LAYOUT PLAN

Scale 1:100

NOTE:

1. All dimensions are in millimetres unless otherwise stated. In case of discrepancy, consult the Structural Engineer.
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PROJECT:
PROVISION OF PHYSICAL
FACILITIES IN PRIMARY SCHOOLS

MINISTRY OF EDUCATION,
SCIENCE AND TECHNOLOGY
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REGIONAL ADMINISTRATION AND
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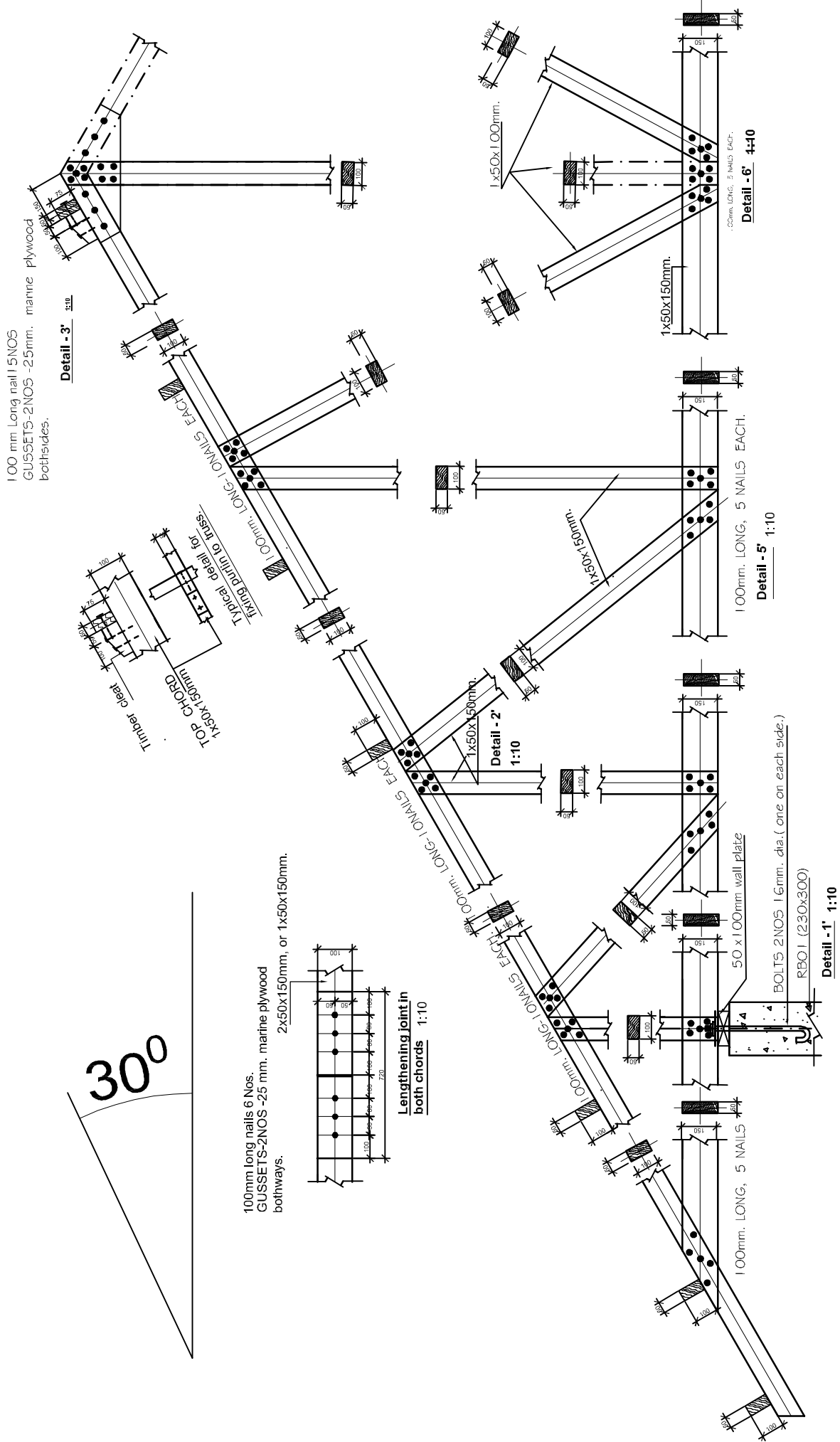
Designed by: Eng. J.M.S
Checked by: Eng. N.T.B
Approved by:

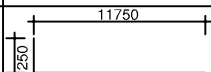
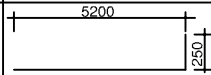
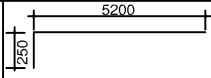
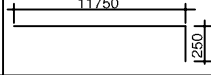
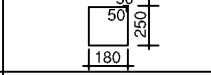
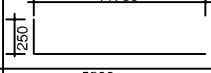
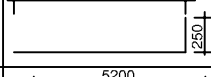
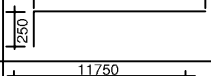
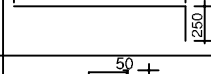
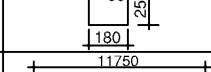
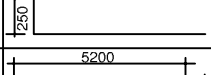
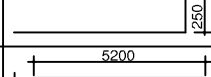
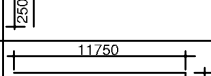
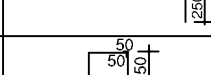
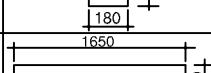
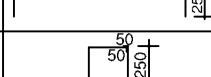
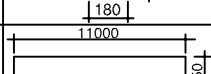
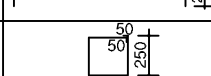
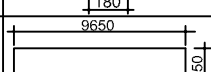
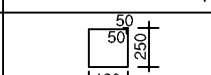
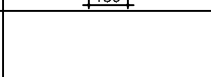
DRAWING TITLE:
PRE-PRIMARY -
CLASSROOMS BLOCK

ROOF TRUSS
CONNECTION DETAILS
(REVISED - 1)

DRAWING USE:
For Building permit:
For Construction:

Drawn by: J.M.S
Date: 2022
Drawing No:STR.CR
Sheet: 06/07



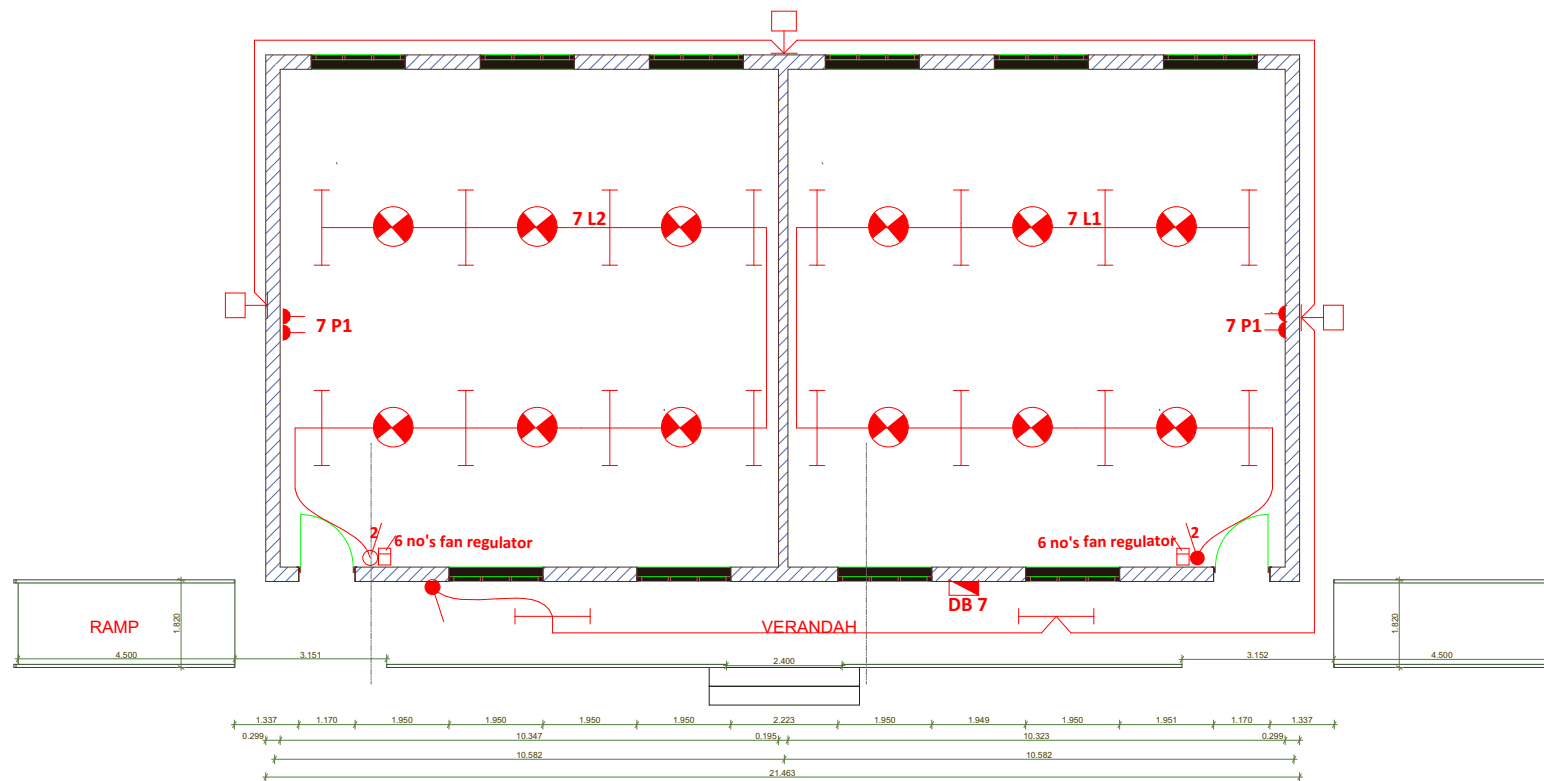
| Page 1/2 | Bar Bending Schedule | | | | | | | |
|---------------|---|-------------|------------------------------|-------------------------------|---------------|---------------------|---|-------|
| | PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PRE-PRIMARY CLASSROOMS BLOCK (GROUND FLOOR BEAMS) | | | | | | | |
| MEMBER TYPE | NUMBER OF MEMBER | MARK No. | BAR TYPE AND SIZE (mm) | LENGTH OF EACH BAR (mm) | NO.OF BARS | TOTAL LENGTH (m) | SKETCH OF BAR DIMENSIONS IN (mm) | NOTES |
| GROUND BEAM 1 | 1 | 01 | Y12 | 12000 | 2 | 24 |  | |
| GROUND BEAM 1 | 1 | 02 | Y12 | 5450 | 2 | 10.9 |  | |
| GROUND BEAM 1 | 1 | 03 | Y12 | 5450 | 2 | 10.9 |  | |
| GROUND BEAM 1 | 1 | 04 | Y12 | 12000 | 2 | 24 |  | |
| GROUND BEAM 1 | 1 | 05 | Y8 | 960 | 81 | 77.76 |  | |
| GROUND BEAM 2 | 1 | 01 | Y12 | 12000 | 2 | 24 |  | |
| GROUND BEAM 2 | 1 | 02 | Y12 | 5450 | 2 | 10.9 |  | |
| GROUND BEAM 2 | 1 | 03 | Y12 | 5450 | 2 | 10.9 |  | |
| GROUND BEAM 2 | 1 | 04 | Y12 | 12000 | 2 | 24 |  | |
| GROUND BEAM 2 | 1 | 05 | Y8 | 960 | 81 | 77.76 |  | |
| GROUND BEAM 3 | 1 | 01 | Y12 | 12000 | 2 | 24 |  | |
| GROUND BEAM 3 | 1 | 02 | Y12 | 5450 | 2 | 10.9 |  | |
| GROUND BEAM 3 | 1 | 03 | Y12 | 5450 | 2 | 10.9 |  | |
| GROUND BEAM 3 | 1 | 04 | Y12 | 12000 | 2 | 24 |  | |
| GROUND BEAM 3 | 1 | 05 | Y8 | 960 | 81 | 77.76 |  | |
| GROUND BEAM 4 | 4 | 01 | Y12 | 2150 | 16 | 34.4 |  | |
| GROUND BEAM 4 | 4 | 02 | Y8 | 960 | 28 | 26.88 |  | |
| GROUND BEAM 5 | 2 | 01 | Y12 | 11500 | 8 | 92 |  | |
| GROUND BEAM 5 | 2 | 02 | Y8 | 960 | 110 | 105.6 |  | |
| GROUND BEAM 6 | 1 | 01 | Y12 | 10150 | 4 | 40.6 |  | |
| GROUND BEAM 6 | 1 | 02 | Y8 | 960 | 47 | 45.12 |  | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Bar Bending Schedule

PROVISION OF PHYSICAL FACILITIES FOR PRIMARY SCHOOLS - PRE-PRIMARY CLASSROOMS BLOCK
(ROOF RING BEAMS)

[illegible]

ELECTRICAL DRAWINGS



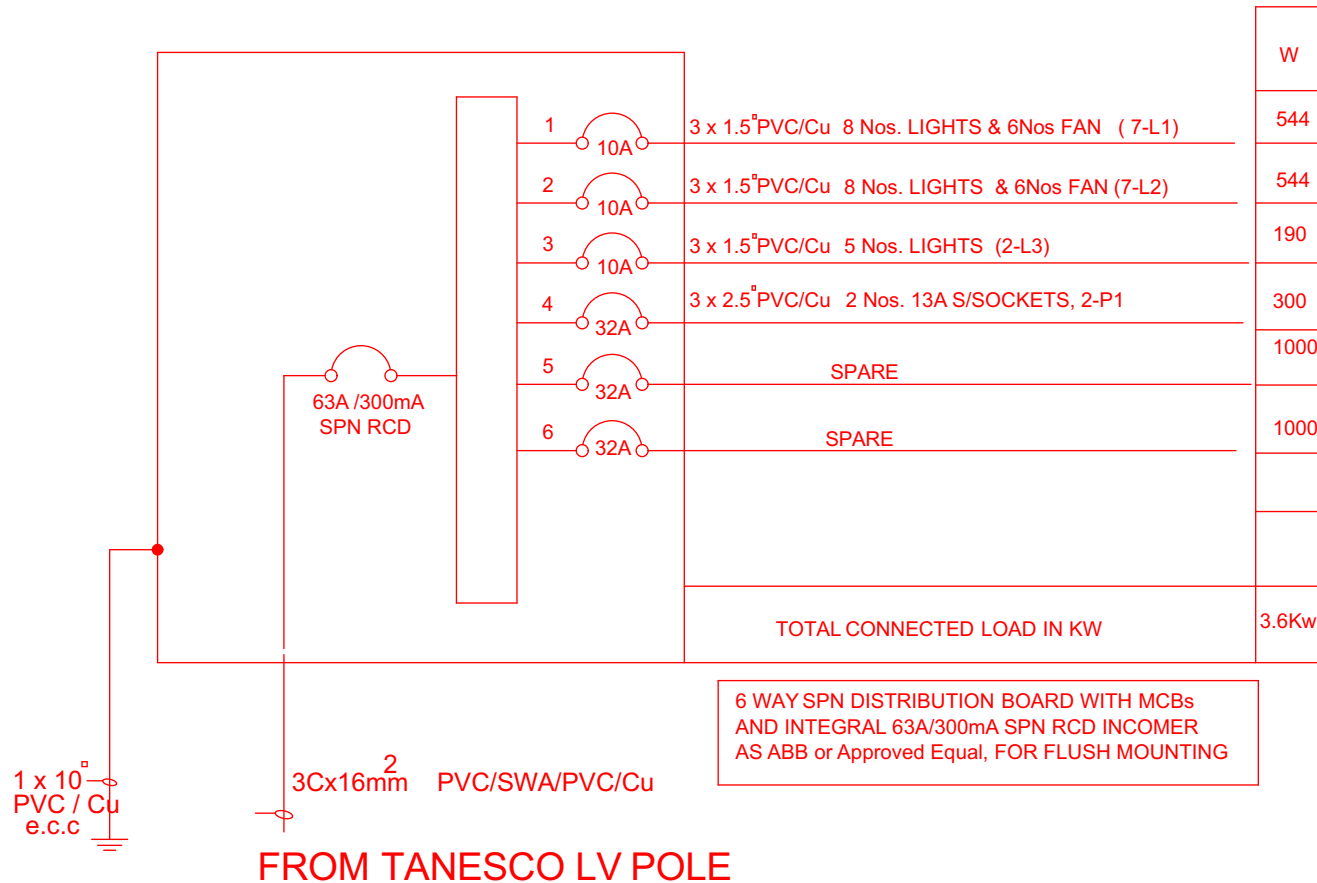
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
IN COLLABORATION WITH
PRESIDENT'S OFFICE REGIONAL ADMINISTRATIVE AND LOCAL GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRE PRIMARY SCHOOLS

DRAWING TITLE:
TWO CLASSROOM BLOCK
FLOOR LIGHTING & POWER LAYOUT
DRAWING NO: PRE/EL/CR/07

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022

2CLASSROOMS DISTRIBUTION BOARD (DB-7)



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GOVERNMENT

PROVISION OF PHYSICAL FACILITIES IN PRE
PRIMARY SCHOOLS

DRAWING TITLE:
TWO CLASSROOM BLOCK
SCHEMATIC LAYOUT
DRAWING NO: PRE/EL/CR/07

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022

KEY TO SYMBOLS

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

MINISTRY OF EDUCATION,SCIENCE AND TECHNOLOGY IN
COLLABORATION WITH
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GORVENMENT

PROVISION OF PHYSICAL FACILITIES IN PRE
PRIMARY SCHOOLS

DRAWING TITLE:
THREE CLASSROOM BLOCK
LEGEND
DRAWING NO: P/EL/CR/07

DRAWN BY EEC
CHECKED BY EEC
SCALE: NTS
DEC 2022