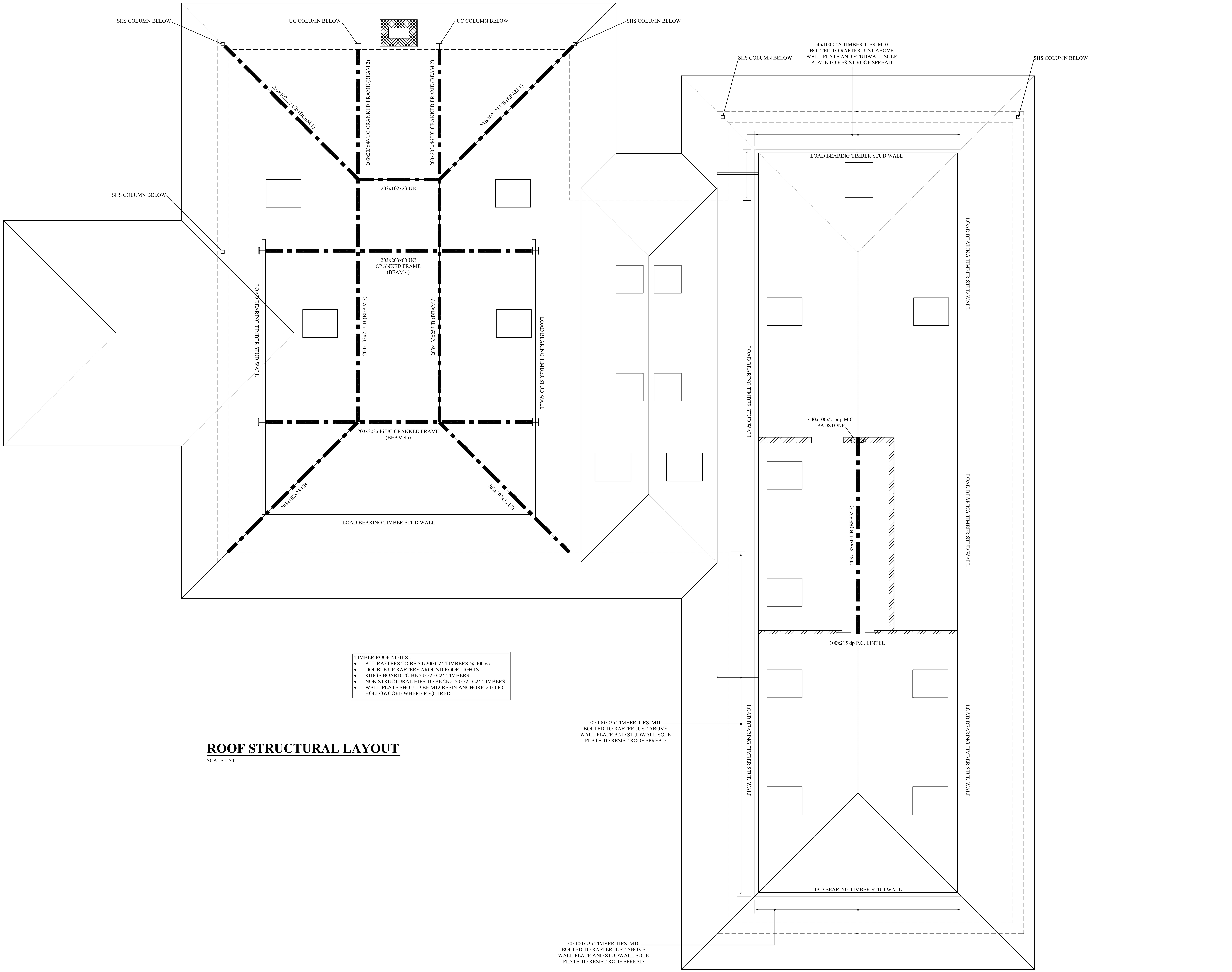

TIMBER ROOF NOTES:-
- ALL RAFTERS TO BE 50x200 C24 TIMBERS @ 400c/c
- DOUBLE UP RAFTERS AROUND ROOF LIGHTS
- RIDGE BOARD TO BE 50x225 C24 TIMBERS
- NON STRUCTURAL HIPS TO BE 2No. 50x225 C24 TIMBERS
- WALL PLATE SHOULD BE M12 RESIN ANCHORED TO P.C. HOLLOWCORE WHERE REQUIRED

ROOF STRUCTURAL LAYOUT

SCALE 1:50

GENERAL NOTES:

1. THESE DRAWINGS IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTS AND SPECIFICATIONS.
2. THE WORKS INDICATED ON THIS DRAWING HAVE, AS FAR AS IS REASONABLY PRACTICABLE, BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS. THOSE RESPONSIBLE FOR CONSTRUCTING THE WORKS MUST ALSO ENSURE THAT THE REQUIREMENTS OF THESE REGULATIONS ARE MET BEFORE PUTTING THE NECESSARY WORKS IN HAND.
3. THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR THE STABILITY OF THE WORKS AND ALL ADJACENT STRUCTURES AFFECTED BY THE WORKS AND SHALL DESIGN, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS TO COMPLY WITH THIS.

TIMBER:

1. TIMBER TO BE GRADE C24 UNLESS NOTED, PRESSURE IMPREGNATED WITH APPROVED ORGANIC SOLVENT. TREAT ALL SITE CUT ENDS AS DIRECTED BY THE SOLVENT MANUFACTURER.
2. ALL WALLPLATES ON MASONRY WALLS TO BE STRAPPED DOWN USING 30x5 GALVANIZED STRAPS, MINIMUM 1000 LONG AT MAXIMUM 2000 CENTRES.
3. WHERE JOISTS AND RAFTERS (INCLUDING TRUSSES) SPAN PARALLEL TO WALLS, PROVIDE 30x5 'L' SHAPED GALVANIZED RESTRAINT STRAPS FIXED ACROSS A MINIMUM OF 3 JOISTS OR RAFTERS AT MAXIMUM 2000 CENTRES AND BENT DOWN INTO CAVITY. PROVIDE NOGGINS BETWEEN TIMBER MEMBERS AND PACKING TO WALL.
4. ALL FIXING OF RESTRAINT STRAPS AND HOLDING DOWN STRAPS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. WHERE TIMBER PLATES ARE SHOWN ON STEEL BEAMS, FIX USING M8 BOLTS AT 600 CENTRES. WHERE PLATES ARE CENTRAL TO A BEAM FLANGE, HOLES TO BE STAGGERED EACH SIDE OF WEB.
6. ALL TRIMMERS TO HOLES OR OPENINGS IN TIMBER FLOORS OR ROOFS TO BE FIXED USING PROPRIETARY JOIST HANGERS. SKEW NAILING IS NOT ACCEPTABLE.
7. UNLESS NOTED ALL JOIST HANGERS TO BE SPEEDY JOIST HANGERS BY EXPAMET BUILDING PRODUCTS OR SIMILAR APPROVED. TYPE TO SUIT JOIST DEPTH AND CONFIGURATION.
8. NOTCHING AND DRILLING OF TIMBER JOISTS TO BE IN ACCORDANCE WITH NHBC GUIDE LINES
9. MULTI TIMBER BEAMS ARE TO BE BOLTED TOGETHER @300c/c WITH M10 BOLTS & DOUBLE SIDED TOOTHPLATE CONNECTORS

STEELWORK:

1. ALL STEELWORK TO BE GRADE S275 AND ALL BOLTS TO BE GRADE 8.8 MIN. BEAM TO BEAM CONNECTIONS TO BE 10 THICK END PLATES WITH 4M16 BOLTS. COLUMNS TO HAVE 10 THICK CAP/BASE PLATE WITH 4No. M16 BOLTS/ RESIN ANCHORS. WHERE COLUMN BASEPLATES BEAR ONTO FOUNDATIONS, ENCASE IN 100 THICK CONCRETE UNLESS NOTED OTHERWISE
2. ALL STEELWORK THAT IS NOT TO BE ENCASED IN CONCRETE IS TO BE BLAST CLEANED TO SA2.5 AND COATED WITH 75 MICRONS DFT ZINC PHOSPHATE PRIMER. ALL BOLTS TO BE SHERARDISED.
3. ALL STEELWORK THAT IS TO BE ENCASED IN CONCRETE TO BE MECHANICALLY WIRE BRUSHED TO REMOVE ALL LOOSE MILLSCALE AND LEFT UNPAINTED. ALL BOLTS TO BE BLACK.
4. ALL WELDS TO BE FULL PROFILE 6MM FILLET U.N.O.
5. ALL ISOLATED STEEL BEAMS TO BE INSTALLED WITH A MINIMUM 100mm BEARING U.N.O.

PRECAST FLOORS (HOLLOWCORE):

1. PRECAST FLOOR UNITS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED LAYOUT DRAWINGS. ALL BEAMS TO HAVE 100 BEARING AT EACH END ON TO SOUND BLOCKWORK OR BRICKWORK.
2. SLIP AND COURSING BLOCKS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 20N/mm². WHERE PLANKS SPAN PARALLEL TO WALLS, GAP BETWEEN PLANK AND TOP OF WALL TO BE FILLED WITH MORTAR. SEE MANUFACTURER'S DETAILS & SECTIONS.
3. PRECAST FLOORING TO BE DESIGNED BY THEM MANUFACTURER TO SUPPORT THE FOLLOWING LOADS IN ADDITION TO ITS OWN SELF WEIGHT:
   SCREED & FINISHES: 1.8 kN/m²
   CEILING: 0.3 kN/m²
   IMPOSED LOADS: 1.5 kN/m² UNLESS NOTED OTHERWISE

MASONRY ABOVE GROUND

1. UNLESS NOTED OTHERWISE, ALL LOADBEARING BLOCKWORK ABOVE FIRST FLOOR LEVEL TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7 N/mm²
2. ALL MORTAR ABOVE DPC TO COMPLY WITH BS 5628, DESIGNATION (iii), UNLESS NOTED OTHERWISE.
3. ALL CAVITIES TO BE TIED WITH STAINLESS STEEL TIES COMPLYING WITH DD140-TYPE 2 AT 900 (H) x 450 (V) STAGGERED CENTRES GENERALLY AND AT 225 VERTICAL CENTRES TO REVEALS. ENSURE TYPE OF TIE IS COMPATIBLE WITH FORM OF INSULATION PROPOSED.
4. ALL PADSTONES TO MINIMUM CONCRETE GRADE RC35 WITH 20 AGGREGATE.
5. NO BLOCKS ARE TO BE LAID FLAT TO CREATE 215 THK WALL. LEAFS TO BE TIED TOGETHER WITH WALL TIES AT 900c/c HOZ, 450c/c VERT.

MASONRY BELOW GROUND:

1. UNLESS NOTED OTHERWISE, ALL LOADBEARING BLOCK WORK TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7N/mm²
2. ALL MORTAR BELOW DPC TO COMPLY WITH BS 5628, DESIGNATION (ii), UNLESS NOTED OTHERWISE.
3. ALL CAVITIES BELOW GROUND TO BE FILLED WITH MORTAR OR CONCRETE AS WORK PROCEEDS.
4. ALL CAVITIES TO BE TIED WITH STAINLESS STEEL TIES COMPLYING WITH DD140-TYPE 2 AT 900 (H) x 450 (V) STAGGERED CENTRES GENERALLY AND AT 225 VERTICAL CENTRES TO REVEALS.
5. BACKFILL SUBSTRUCTURE WALLS EQUALLY ON EACH SIDE. DIFFERENCE IN BACKFILL SHOULD NOT BE MORE THAN 600mm. CAVITY TO BE FILLED WITH A142 MESH & TIED AS ABOVE. USE RC35 CONCRETE IN NOT MORE THAN 1000mm LIFT
6. NO BLOCKS ARE TO BE LAID FLAT TO CREATE 215 THK WALL. LEAFS TO BE TIED TOGETHER WITH WALL TIES AT 900c/c HOZ, 450c/c VERT.

DRAINAGE PIPES THROUGH SUBSTRUCTURE:

1. WHERE PIPES PASS THROUGH SUBSTRUCTURE 100x100 P.C. LINTELS ARE TO BE PROVIDED. MAXIMUM OPENING 400

PRECAST FLOORS (BEAM AND BLOCK):

1. PRECAST FLOOR UNITS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED LAYOUT DRAWINGS. ALL BEAMS TO HAVE 100 BEARING AT EACH END ON TO SOUND BLOCKWORK OR BRICKWORK.
2. INFILL BLOCK TO BE OF 7N/mm² STRENGTH AND MEDIUM DENSITY, NOT EXCEEDING 1350 kg/m³. SLIP AND COURSING BLOCKS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 20N/mm².
3. PRECAST FLOORING TO BE DESIGNED BY THEM MANUFACTURER TO SUPPORT THE FOLLOWING LOADS IN ADDITION TO ITS OWN SELF WEIGHT:
   SCREED & FINISHES: 1.8 kN/m²
   PARTITIONS: 4.0 kN/m
   IMPOSED LOADS: 1.5 kN/m² UNLESS NOTED OTHERWISE

FOUNDATIONS:

1. FOUNDATIONS IN THIS DRAWING HAVE BEEN DESIGNED FOR A SAFE BEARING PRESSURE OF 75 kN/m². BEARING STRATA EXPECTED TO BE CLAY, ENGINEER TO BE INFORMED IF NOT.
2. CONCRETE GRADES TO BE DESIGNATED MIXES TO B.S 5328 AS FOLLOWS: TRENCH FILL FOUNDATIONS: GEN3 75 SLUMP 20 AGGREGATE

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DRAWING TITLE
ROOF STRUCTURE
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PROJECT TITLE
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