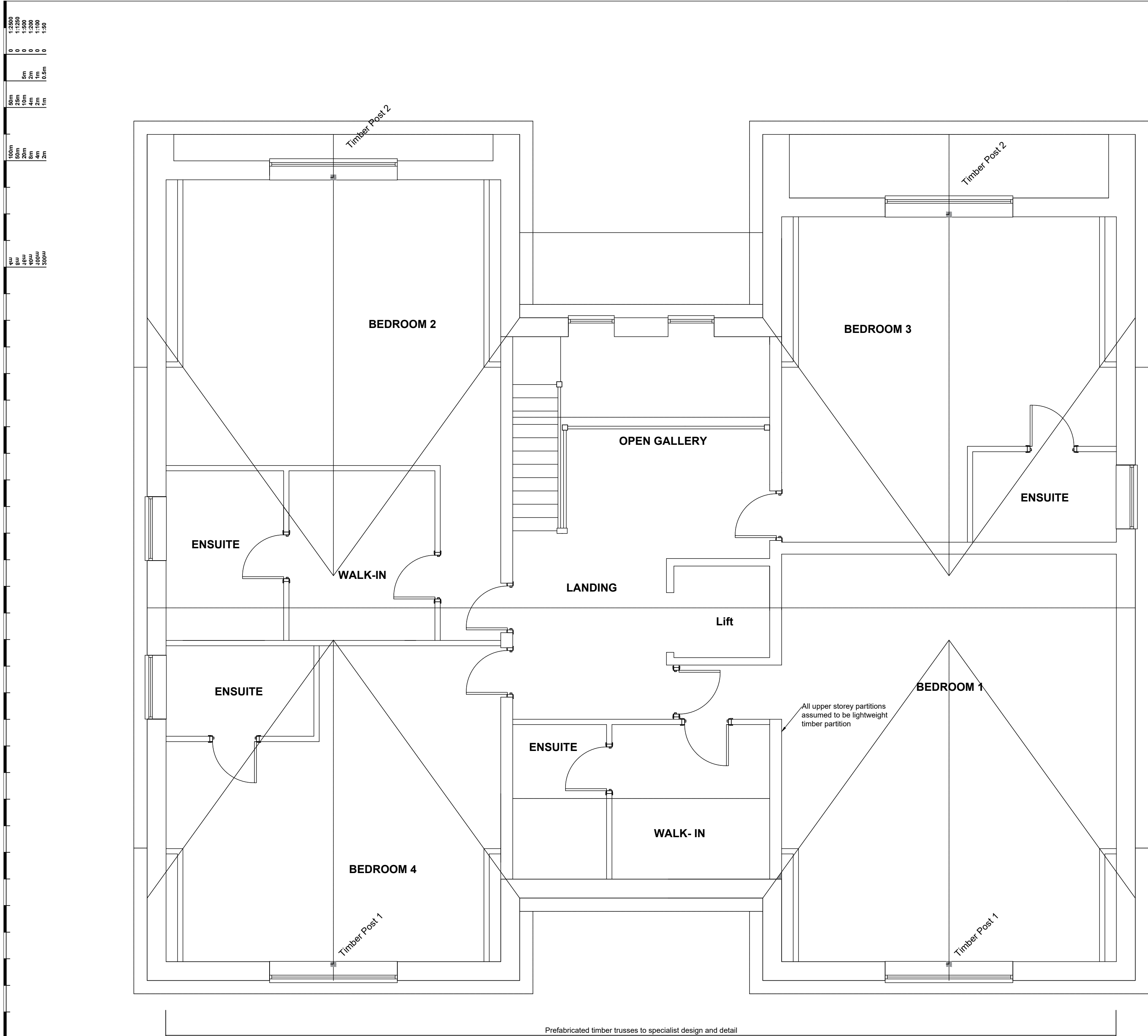
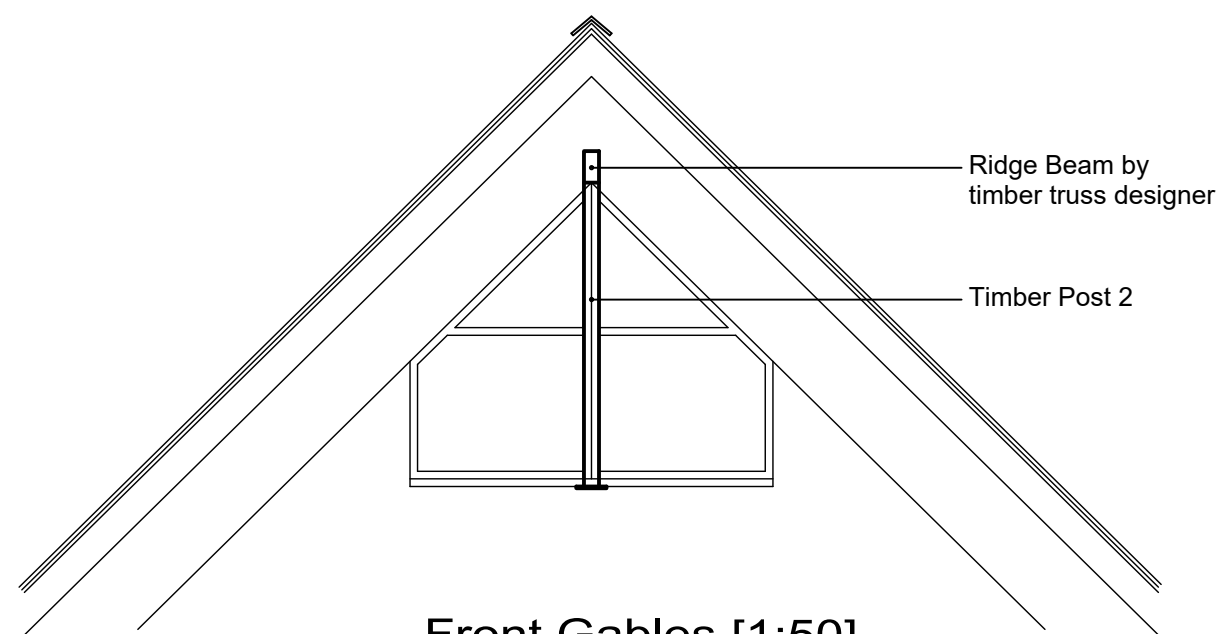
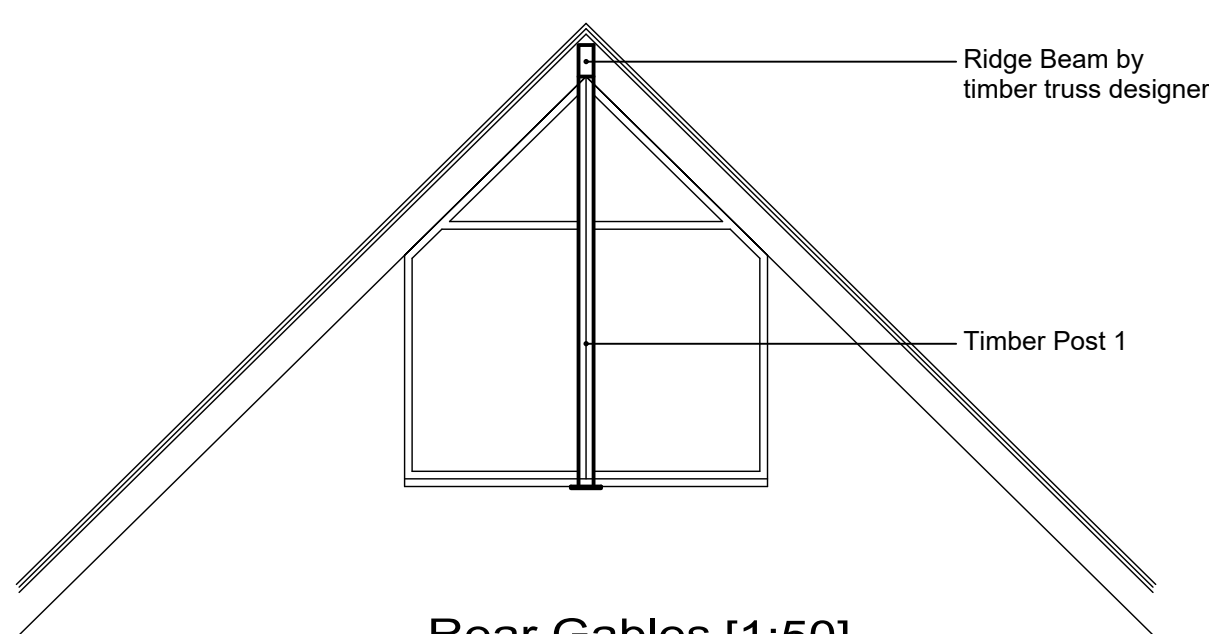




Roof Plan. [1:50]



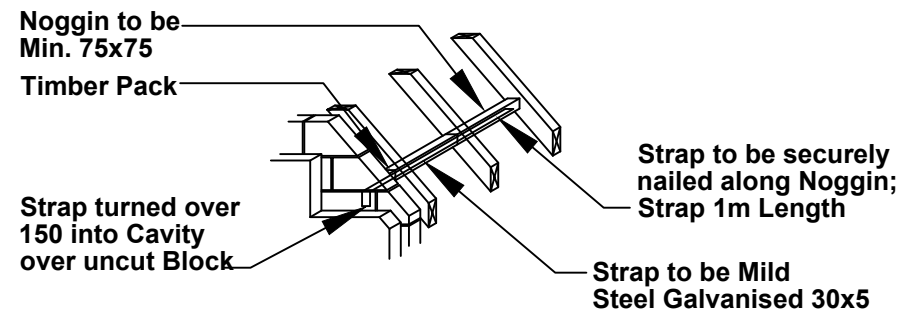
Front Gables [1:50]



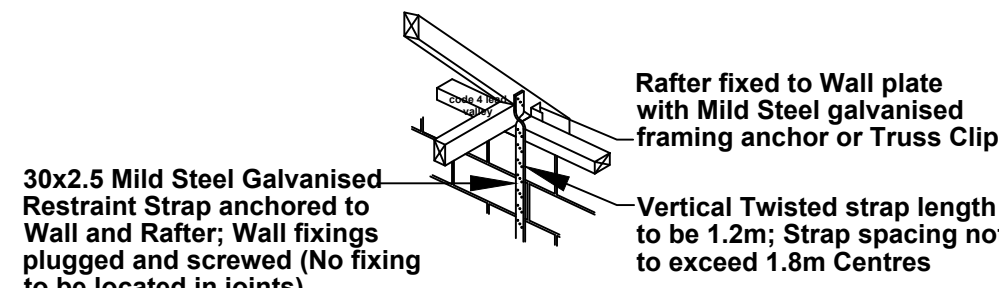
Rear Gables [1:50]

PRELIMINARY

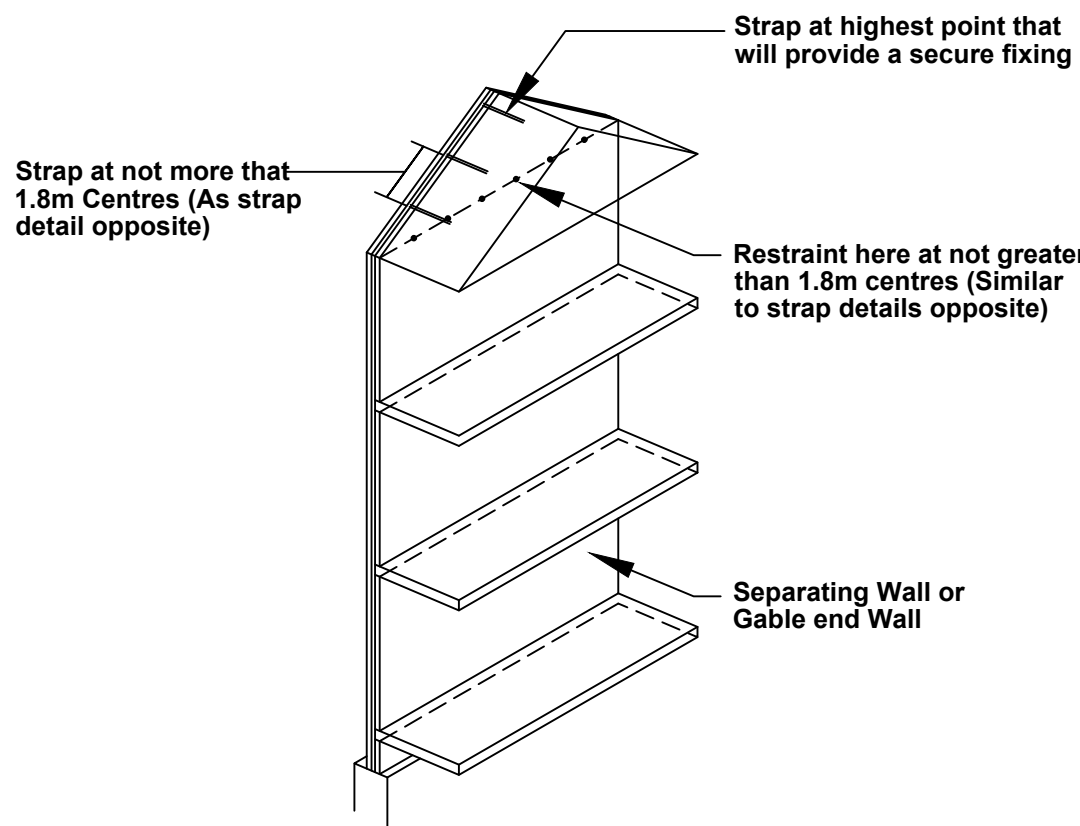
1:2500	0	50m	100m	200m
1:1250	0	25m	50m	100m
1:500	0	10m	20m	40m
1:200	0	2m	4m	8m
1:100	0	1m	2m	4m
1:50	0	0.5m	1m	2m



Lateral Restraint Strap to Gable



Restraint Strap to Wall Plate



Location Straps to Gable & Party Wall

TIMBER TRUSSED RAFTER DESIGN REQUIREMENTS	
1.	The trussed rafters are to be designed in accordance with BS 5268 Pt 3.
2.	The following loadings are to be accommodated by the design:- Specialist Timber Trussed Rafter Supplier to allow for all roof finishes as specified by the Architect and all relevant live loads appropriate to the Site. Specialist Timber Trussed Rafter Supplier to allow for all roof finishes as specified by the Architect and all relevant live loads appropriate to the Site. Water tank (dead) = 2 x 0.45kN applied to the ceiling joist at the two nodes nearest to the water tank. Imposed load = 0.9kN short term load applied to a rafter at the centre of any bay or to a ceiling joist at the centre or either end of a bay. Wind load calculated according to CP 3 : Chapter V : Part 2 for Class B structures.
3.	Refer to the Contractor for positions of water tanks.
4.	Refer to the Architect's drawings for the location of the access hatch to the roof space.
5.	Timber is to be strength class C16 or C24.
6.	Preservative treatment is to be organic solvent to give a service life of at least 60 years. Any timber surfaces exposed by minor cutting or drilling are to be treated with two flood coats of a solution compatible with the main treatment solution.
7.	Moisture content of timber at time of erection is not to exceed 22%.
8.	The roof designer is to be responsible for all roof bracing which shall incorporate the following minimum requirements:- All bracing to be of minimum size of 25 x 100, be free from major defects and fixed with 2 No. 10g nails at each truss. Lap joints are to be taken over at least two trusses or rafters. Chevron bracing to be fixed at approximately 45 degrees and nailed to at least three trusses.
9.	Trussed Rafters to be at 600mm. Centres maximum. Ceiling to be 12.5mm. thk. Plasterboard throughout to BS 1230 : Part 1, installed in accordance with BS 8212 and fixed directly to the underside of the bottom chords of the Trussed Rafters.
10.	Trussed Rafters to be fixed to 100 x 75 C16 Timber Wall Plates with proprietary Truss Clips to Specialist Suppliers Specifications.
11.	Trussed Rafter Roof System to be fully strapped to the masonry walls in accordance with the Structural Details indicated on the Roof Plan and comply strictly with all NHBC Performance Standards and Guidance Notes.

- GENERAL NOTES
- THIS DRAWING IS COPYRIGHT
 - THE DRG SHAL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS
 - USE ONLY FIGURED DIMENSIONS.
 - DIMENSIONS AND CONDITIONS SHALL BE VERIFIED ON SITE. ANY DISCREPANCIES BETWEEN THIS DRG AND SITE CONDITIONS SHALL BE BOUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO PLACING ORDERS OR TO CONSTRUCTION
 - ALL WORK SHALL COMPLY WITH THE BUILDING REGULATIONS. THE REQUIREMENTS OF THE LOCAL AUTHORITY, CURRENT CODES OF PRACTICE AND BRITISH STANDARDS.
 - DIMENSIONS INDICATED THUS:- ARE TO BE CONFIRMED ON SITE.
 - ONLY KNOWN HOLES, POCKETS RECESSES ETC WITH A MINIMUM DIMENSION GREATER THAN 150mm ARE SHOWN ON THIS DRG. REFERENCE SHOULD BE MADE TO ARCHITECTS SERVICES OR BUILDERS WORK DRAWINGS AS RELEVANT FOR SMALL HOLES, INSERTS, FIXINGS, PIPES, VENTS ETC. AND FOR CONFIRMATION OF POSITION AND SIZE OF LARGER HOLES
 - ALL TEMORARY WORKS AND SEQUENCE OF WORKING ASSOCIATED WITH THE DETAILS ON THIS DRG ARE TO BE AGREED WITH THE STRUCTURAL ENGINEER PRIOR TO WORKS BEING CARRIED OUT
 - FOR WATERPROOFING/FLASHING DETAILS REFER TO ARCHITECTS DRGS.
- CONCRETE NOTES
- STRUCTURAL CONCRETE TO BE GRADE C35. BLINDING CONCRETE TO BE GRADE C20. ALL CONCRETE BELOW GRD TO BE GRADE C35/SRC
 - NOMINAL COVER TO ALL REINFORCEMENT TO BE 75mm WHERE CAST AGAINST SOIL. 50mm TO ALL OTHER CASES
- MASONRY WALLS
- BRICKS ARE TO HAVE THE FOLLOWING CHARACTERISTICS:- FROST RESISTANCE CLASS F TO BS 3921 SOLUBLE SALT CONTENT CLASS L TO BS 3921
 - BRICKWORK ABOVE DPC LEVEL TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 20 N/mm². BRICKWORK BELOW DPC LEVEL TO BE CLASS B ENGINEERING BRICKWORK
 - BLOCKS ARE TO BE :- DENSE CONCRETE BLOCKS (MIN MASS OF 415 kg/m² ON ELEVATION) ARE TO BE USED FOR PARTY WALLS, AERATED CONCRETE BLOCKS HAVING A DENSITY LESS THAN 750 kg/m³ ARE TO BE USED ELSEWHERE.
 - BRICKS AND BLOCKS ARE TO BE MANUFACTURED AT LEAST 28 DAYS PRIOR TO USE IN THE WORKS
 - MORTAR IN MASONRY WALLS IS TO BE 1:1:6 CEMENT:LIME:SAND MIX ABOVE DPC, AND 1:3 CEMENT:SAND MIX BELOW DPC. MORTAR CAPPINGS, COPINGS AND CILLS ARE TO BE 1:1/4:3 CEMENT:LIME:SAND MIX.
 - ALL CAVITY WALL TIES ARE TO BE STAINLESS STEEL DOUBLE-TRIANGULAR TYPE WITH 4mm WIRE DIAMETER TO BS 1243. SPACING IS TO BE 900mm HORIZONTALLY AND 450mm VERTICALLY AND STAGGERED. AT REVEALS AND EXPANSION JOINTS CAVITY WALL TIES ARE TO BE AT 225mm VERTICAL CTRS AND 225mm AWAY FROM THE REVEAL OR JOINT. BUTTERFLY CAVITY WALL TIES ARE NOT TO BE USED.
- TIMBER NOTES
- ALL TIMBER TO BE GRADE C24 TO BS 5268 UNLESS NOTED OTHERWISE AND TO BE DOUBLE VACUUM TREATED. SAWN ENDS ARE TO BE TREATED WITH A COMPATIBLE PRESERVATIVE.
 - ALL JOIST HANGERS ARE TO BE GALVANIZED MILD STEEL WITH A MINIMUM THICKNESS OF 3.5mm.
 - FOR JOIST SPANS GREATER THAN 2.5m SOLID BLOCKING TO BE INSTALLED IN ACCORDANCE WITH THE BUILDING REGULATIONS.
 - SOLID BLOCKING IS ALSO TO BE INSTALLED WHERE JOISTS ARE NOTCHED INTO STEEL BEAMS OR ARE SUPPORTED ON JOIST HANGERS.
- STEELWORK
- Steel to be Grade S355 complying with all current British Standards.
 - Steelwork to be shot - blasted to SA 2.5 of BS 7079 - Part 1 and painted one coat of Leigh's Paints Epigrip C400 Epoxy Zinc Phosphate Primer to 75 microns DFT.
 - Steelwork encased in masonry to receive an additional coat of brush applied Bitumastic Paint.

structure schedule			
ref.	specification	plan location	padstone
Timber Post 1	150 x 150 C24 timber post	ridge - window cill	-
Timber Post 2	150 x 150 C24 timber post	ridge - window cill	-

B MB 04 08 20 Scaling notes revised as instructed by Development and Conservation Manager
A HB 23 08 24 Updated Structural Layout

mba m b a structures ltd	The Old Forge 53-55 High Street Rushden Herts SG8 0EB T 01279 219919	Project Daisy Barn Rushden Herts Scale 1:50 at A1 Date August 2024
	E mike@mbastructures.co.uk	Drwg. No. 7462.A1.04 Rev. B