

GROUND FLOOR PLAN SHOWING STRUCTURAL FRAMING OVER (1:50).

ROOF CONSTRUCTION NOTES

- FOR TRUSSED RAFTER DESIGN AND BRACING REQUIREMENTS SEE SEPARATE NOTES.
- ALL SITE PITCHED ROOF MEMBERS TO BE OF A MINIMUM SIZE AS SHOWN ON THE DRAWINGS. SIZES SHOWN ARE NOMINAL TIMBER SIZES EXCEPT AS NOTED ON THE DRAWINGS AND WILL BE SUBJECT TO REDUCTION IN FINISHED SIZE TO BS-4471.
- TIMBER WALL PLATES SHALL NOT BE LESS THAN 50MM X 100MM IN CROSS SECTION EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS, AND SHALL BE LAID TO LEVEL ON A MORTAR BED ON MASONRY WALLS, OR FIXED TO STEEL BEAMS USING M8 DIAMETER BOLTS AT NOT MORE THAN 900MM CENTRES.
- WALL PLATES SHALL BE STRAPPED DOWN TO MASONRY WALLS AT NOT MORE THAN 2.0M CENTRES IN HOUSES, AND 1.25M CENTRES IN FLATS, WITH GALVANISED 30MM X 2.5MM RESTRAINT STRAPS HAVING A SIZE NOT LESS THAN 100MM X 90MM. STRAPS SHALL BE SECURELY FIXED TO WALL PLATE WITH NOT LESS THAN 2 No. 32MM X 3.5MM GALVANISED OR SHERADISED SQUARE TWISTED NAILS, AND TO WALLS WITH NOT LESS THAN 6 No. 50MM 12 GAUGE WOODSCREWS INTO PROPRIETARY PLASTIC STUDS EVENLY SPACED ALONG THE STRAP.
- ALL MEMBERS SUPPORTED ON PROPRIETARY HANGERS SHALL BE ACCURATELY CUT TO PROVIDE A FULL CONTACT WITH THE BASE OF THE HANGER AND SHALL BE FIXED IN ACCORDANCE WITH THE HANGER MANUFACTURERS INSTRUCTIONS.
- ALL LOOSE TIMBER RAFTERS, CEILING JOISTS, PRE-FABRICATED TRUSSED RAFTERS AND THE LIKE SHALL BE FIXED TO TIMBER WALL PLATES, PURLINS ETC WITH SUITABLE PROPRIETARY GALVANISED TRUSS CLIPS. ALL NAIL HOLES IN TRUSS CLIPS SHALL BE FILLED WITH 32MM X 3.5MM GALVANISED OR SHERADISED SQUARE TWISTED NAILS.
- GABLE WALLS, PARTY WALLS AND INTERNAL PARTITIONS EXTENDING INTO THE ROOF SPACE SHALL BE RESTRAINED AT THE TOP OF CEILING JOIST AND UNDERSIDE OF RAFTER LEVEL AT NOT MORE THAN 2M CENTRES WITH GALVANISED 30MM X 5.0MM RESTRAINT STRAPS HAVING A SIZE NOT LESS THAN 100MM X 90MM. TIMBER BLOCKING ADJACENT TO WALL, AND NOGGIN'S NOT LESS THAN 75MM DEEP SHALL BE FIXED BETWEEN MEMBERS AT STRAP LOCATIONS. STRAPS SHALL BE SECURELY FIXED TO MEMBERS/NOGGIN'S WITH NOT LESS THAN 4 No. GALVANISED OR SHERADISED SQUARE TWISTED NAILS.
- TIMBER MEMBERS SHALL NOT PENETRATE FIRE STOP WALLS IN ROOFS. PROVIDE SUITABLE GALVANISED METAL HANGERS TO SUPPORT TRUSSES, RAFTERS ETC, AS REQUIRED TO AVOID SUCH PENETRATIONS.

KEY TO RAFTERS:

- DENOTES NEW OR SUPPLEMENTARY 50 x 200 C16 GRADE COMMON RAFTERS AT MAXIMUM 600mm CENTRES. DOUBLE UP E/SIDE TO TRIM FOR ROOFLIGHTS.
- DENOTES EXISTING RAFTERS ASSUMED TO BE MINIMUM 50 x 100 AT VARYING CENTRES (MAXIMUM 1.0m AS NOTED OVER KITCHEN AREA). PROVIDE ADDITIONAL RAFTERS AS REQUIRED TO ACHIEVE 50 x 100 AT MAXIMUM 600mm CENTRES. TO BE CONFIRMED ONCE RAFTERS EXPOSED THROUGHOUT.
- DENOTES SUPPLEMENTARY 75 x 150 C24 GRADE SOFTWOOD MONOPITCH RAFTERS AT 400mm CENTRES.

KEY TO LINTELS:

- DENOTES TIMBER LINTEL OVER PROPOSED NEW OPENING TO MATCH EXISTING STUDS E/SIDE ALLOW FOR 80mm SQUARE TIMBER LINTELS GENERALLY, WHERE POSSIBLE USE RE-CLAIMED SECTIONS OF EXISTING TIMBERS.
- DENOTES STANDARD DUTY CAVITY WALL LINTEL FOR EXAMPLE L1/S-150 TO SUIT PROPOSED CAVITY WALL CONSTRUCTION.

NOTE:

ALL EXISTING AND NEW CROSS WALLS TO BE PLY SHEATHED BOTH SIDES USING 9.5mm THICK WBP PLYWOOD FIXED AROUND PERIMETER USING 3.0mm DIA. NAILS x 50mm LONG AT 150mm CENTRES AND TO INTERNAL STUDS AT 300mm CENTRES. WHERE PROVIDING RESTRAINT TO NEW CAVITY WALL, 1st STUD TO BE RESIN ANCHORED TO BLOCKWORK INNER LEAF USING M10 DIA. THREADED STUDS AT 450mm VERTICAL CENTRES SET IN R-KEM II RESIN (RAWL FIXINGS).

DENOTES CROSS WALLS TO BE PLY SHEATHED BOTH SIDES.

STRUCTURAL STEELWORK NOTES

- ALL MATERIALS, FABRICATION AND ERECTION OF STEELWORK SHALL BE IN ACCORDANCE WITH THE 4TH EDITION OF THE NATIONAL STRUCTURAL STEELWORK SPECIFICATION FOR BUILDING CONSTRUCTION AS PUBLISHED BY THE BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION IN ASSOCIATION WITH THE STEEL CONSTRUCTION INSTITUTE.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, CONNECTIONS BETWEEN STRUCTURAL STEELWORK SHALL COMPRISE NOT LESS THAN:
 - 2 No. M16 DIAMETER GRADE 8.8 BOLTS FOR MEMBERS WEIGHING UP TO 25KG/M.
 - 4 No. M16 DIAMETER GRADE 8.8 BOLTS FOR ALL OTHER MEMBERS.
 WHERE CONNECTION FORCES ARE STIPULATED BY THE ENGINEER, THE STEELWORK CONTRACTOR SHALL DESIGN THE CONNECTIONS FOR 110% OF THE ULTIMATE FORCES STIPULATED. THE STEELWORK CONTRACTORS CONNECTION DESIGN WILL BE SUBJECT TO COMMENT BY THE ENGINEER.
- WHERE STEEL BEAMS ARE REQUIRED TO BEAR ONTO MASONRY WALLS, THEY SHALL HAVE AT LEAST THE MINIMUM BEARINGS AS SPECIFIED ON THE DRAWINGS. WHERE NO BEARING IS SPECIFIED, PROVIDE BEARING ONTO THE FULL LENGTH OF THE SUPPORTING LEAF OR 150MM WHICHEVER BEING THE GREATER BEARING.
- STEEL COLUMNS SHALL BE RAISED/LOWERED TO THE CORRECT LEVELS OFF FOUNDATIONS. CONCRETE PADSTONES USING SAWN STEEL PACKS NOT LESS THAN 75MM SQUARE. ALLOWANCE SHOULD BE MADE FOR NOMINAL 25MM THICKNESS OF GROUT BETWEEN COLUMN BASEPLATES AND TOP OF FOUNDATIONS/PADSTONES. GROUTING SHALL BE CARRIED OUT USING A PROPRIETARY NON-SHRINK CEMENTITIOUS GROUT SUPPLIED BY A BSI REGISTERED FIRM IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- SITE MODIFICATIONS TO STRUCTURAL STEELWORK SHALL NOT BE PERMITTED UNLESS PRIOR WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.
- ALL STRUCTURAL STEELWORK SHALL BE BLAST CLEANED TO BS 709: PART A1, PREPARATION GRADE SA 2 1/2 AND, EXCEPT WHERE SPECIFIED AS GALVANISED, SHALL BE SHOP PAINTED WITH A SUITABLE GOOD QUALITY HIGH BUILD EPOXY ZINC PHOSPHATE PRIMER TO PROVIDE A DRY FILM THICKNESS NOT LESS THAN 75 MICRONS. THE CONTRACTOR SHALL ENSURE THAT THE PRIMER USED IS COMPATIBLE WITH SUBSEQUENT COATINGS SUCH AS INTUMESCENT PAINT AS SPECIFIED BY OTHERS.
- STEELWORK SPECIFIED ON THE DRAWINGS AS GALVANISED SHALL BE BLAST CLEANED AS ABOVE AND HOT DIP GALVANISED TO BS 729 WITH A MINIMUM COATING THICKNESS OF 85 MICRONS.
- ALL STEELWORK BELOW DPC LEVEL OR BUILT WITHIN THE CAVITY OF AN EXTERNAL CAVITY MASONRY WALL SHALL RECEIVE AN ADDITIONAL 125 MICRONS OF SHOP OR SITE APPLIED GOOD QUALITY HIGH BUILD EPOXY ZINC PHOSPHATE PRIMER TO ACHIEVE AN OVERALL DRY FILM THICKNESS OF NOT LESS THAN 200 MICRONS. IN ADDITION, STEELWORK BELOW DPC SHALL BE ENCASED IN NOT LESS THAN 100MM OF CONCRETE AS SPECIFIED ON THE DRAWINGS.
- THE ENGINEER IS NOT RESPONSIBLE FOR DIMENSIONAL INFORMATION OTHER THAN THAT INDICATED ON HIS DRAWINGS. ALL SIZE DIMENSIONS SHALL BE TAKEN FROM GRID L.I.C. AND 100 SHALL BE DERIVED FROM THE ARCHITECTS DRAWINGS.
- THE STEELWORK CONTRACTOR IS TO PROVIDE ALL NECESSARY SECONDARY STEELWORK, TRIMMING ETC. AS REQUIRED AROUND DOORS, WINDOWS AND THE LIKE.
- FIRE PROTECTION OF STEELWORK TO DETAIL BY ARCHITECT.

Revision	Description	Date	Drawn
Project:	PEACOCKS BARN, FARLEY GREEN, SUFFOLK.	10966/SK02	Drawing No.
Drawing:	GROUND FLOOR PLAN SHOWING STRUCTURAL FRAMING OVER.	6th SEPT. 2022	Date
Client:	MR AND MRS MACKLIN	1:50 AT A1	Scale
		D. STARK	Drawn
			Checked
		4 MAIDEN WAY HADLEIGH SUFFOLK IP7 5HF	
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