

Proposed attic conversion with rear dormer and new raised roof at 4 Windsor Road, Prestwich, Manchester	
Draw No: 01	Revision: 0
Floor Plans & Elevations	
Scale: 1:100 (A3 drawing)	Date: Oct 2021
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Extension construction details

ROOF Concrete interlocking tiles lapped on treated battens on approved breathable roofing felt onto 200 x 50mm rafters at 400 c/c. Insulation to be 275mm deep rockwool gull: insulation or other equal and approved between rafters. 12mm plaster board and skin to underside of 175 x 50mm ceiling rafters at 400 c/c. Roofspace ventilation system (min 25mm gap) with purpose-made eave-fitting to ensure eaves are not blocked. Gutter to be 100mm half-round gutter with 75mm dia PVC rainwater pipe to roddable gully.

WALLS Outskirt to be 110mm approved brick facings to match existing. 100mm cavity with rockwool insulation to give U Value of 0.3w/m2K, inner skin to be 100mm thermalite blocks. 12mm plasterboard and skin to internal.

Butterfly type wall ties to be fixed 700mm c/c horizontally and 450mm centres vertically. Cavity to be continuous bonded to existing and sealed at eaves level with brick or block on edge. DPC to be 150mm above ground level, and insulated horizontal and vertical DPC to be around all openings and reveals. Stopped lead cavity tray and flashing at eaves. 30mm x 5mm galvanised MS strips to fix to walls and structural timbers of roof at max 1800mm c/c. Weak mix concrete cavity fill in cavity wall below ground level.

DRAINS 100mm dia PVC drains to connect to existing and fall 1:40 to approval of Building Control Officer. PVC approved inspection chambers to be fitted at junction with main drain.

VENTILATION Opening lights not to be less than 1/20th of floor area of room served. Glazing to be SAFETY glazing to BS 6206: PENSA approved and have 9 glass. Any boiler vent to be ducted to external air 500mm clear of opening light. Mechanical fan to be ducted to external air and have extract rate of 60 litres per sec in kitchen and 15 litres per second in bathrooms.

FIRE All elements of structure and new ceilings to have 12mm fireline board and skim. 30 minute fire doors with frames to be insulated at all relevant openings.

OPENINGS To have standard canics over with min and weeing 150mm each end.

SKY LIGHTS Double up rafters on either side of velux windows.

RAINWATER GOODS: 100mm diameter round PVC u gutters and 60mm diameter downpipes, as Hunter Highflow, or similar as indicated to discharge to gullies. Gullies to discharge to 100mm diameter PC u to soakaways.

PLUMBING All work to be carried out in accordance with BS8000 workmanship on Building Sites Part 13. Code of practice for above ground drainage. The pipes, fittings and joints should be capable of withstanding an air test of positive pressure of atleast 30mm water gauge for atleast 3 minutes.

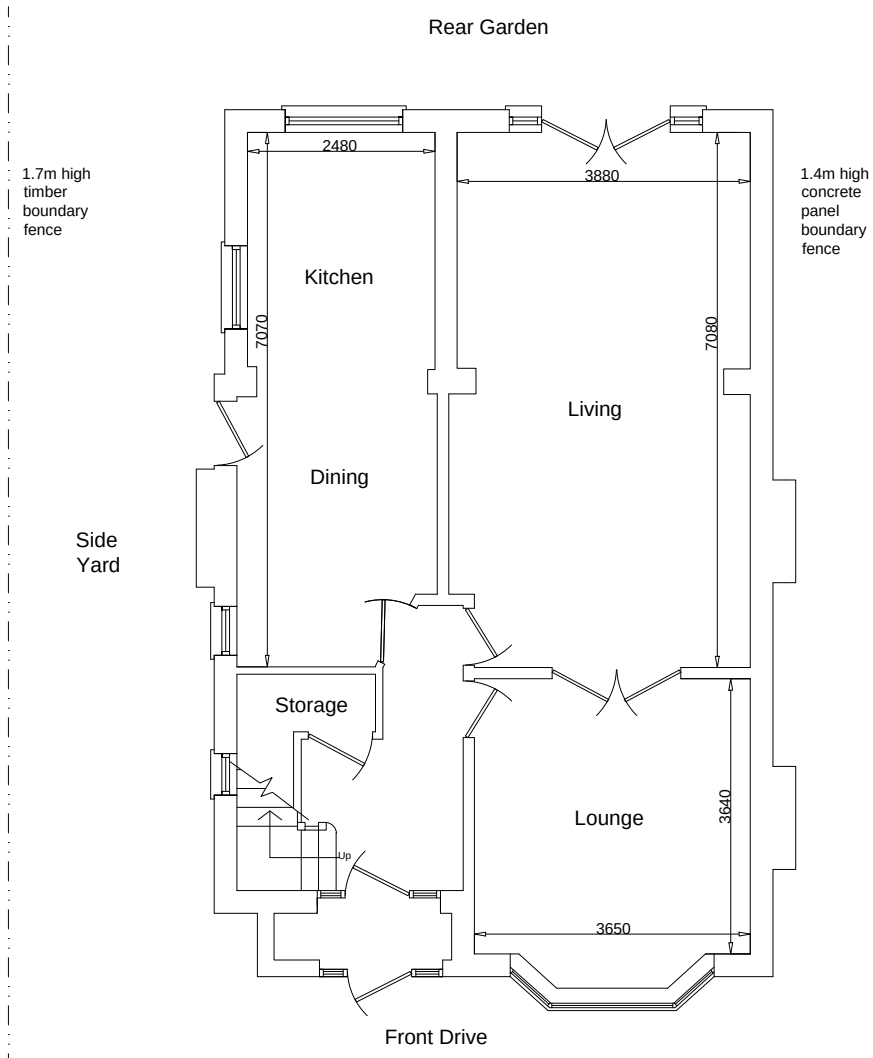
INTERNAL WALL Stud walls o/o 50x100. Single boarded each side. 100mm acoustic fibre glass or rockwool. Walls taken to underside of ceiling.

WASTES 30mm dia PVC waste with ant vac traps to washbasin and 30mm dia to sink connected direct to gully to new drain as above.

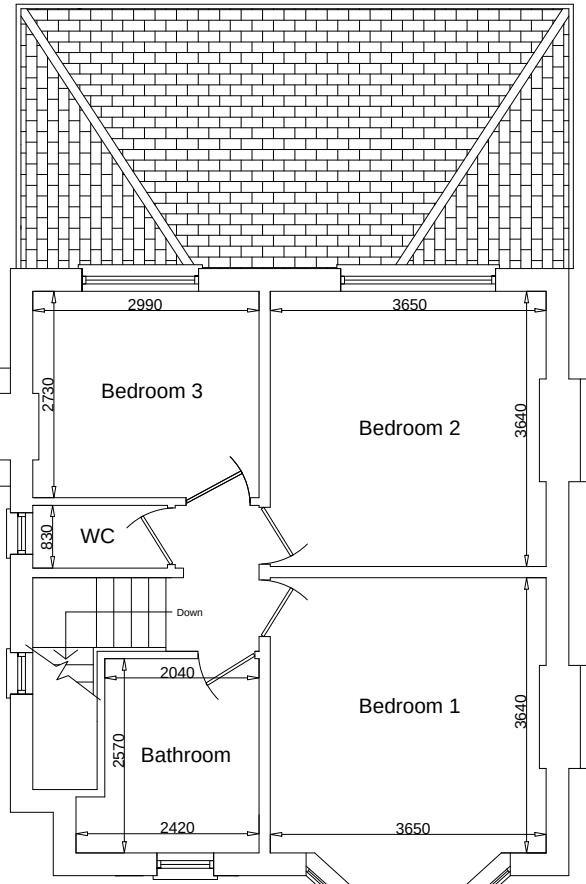
ELECTRICS & GENERAL All electrical installations to comply to BS 7671, 17th Edition of IEE Regs and Part P of Building Regs by a NICEIC electrician with a test certificate forwarded to Building Control within 30 days of completion. New radiators to have TRV and a new boiler is installed, a should be of condensing type and have min SEDGWICK rating of 86%. If not, adequacy of existing boiler should be checked to determine that it is capable of handling the proposed increased loads. Service plans to be insulated and boiler control interlocks together with zone timing and emergency controls are required. In addition, the heating and hot water system should be commissioned to the at completion the system and their controls are left in working order and can operate efficiently. A copy of the Gas Certificate is to be given to the Local Authority on completion.

NOTES:
Copyright in all documents and drawings prepared by the designer and any works executed from these documents and drawings shall, unless otherwise agreed, remain the property of the designer and must not be reproduced by, lent or disclosed to, a third party without the written consent of the designer.
DO NOT SCALE OFF THIS DRAWING.
All dimensions to be checked on site and any discrepancies to be referred to the architectural designer before proceeding.
ALL LEVELS TO BE CHECKED ON SITE.
All components sizes and references to be checked prior to ordering of materials.
Positions and designation (i.e. content, surface water or foul) of existing drain runs on site are to be checked / confirmed by the building contractor prior to commencement of any drainage works. Any existing drains to be checked / confirmed by the building contractor as necessary to ensure that they are suitable to accommodate additional capacity and the type of effluent being connected.
All relevant boundary positions to be checked prior to proceeding.

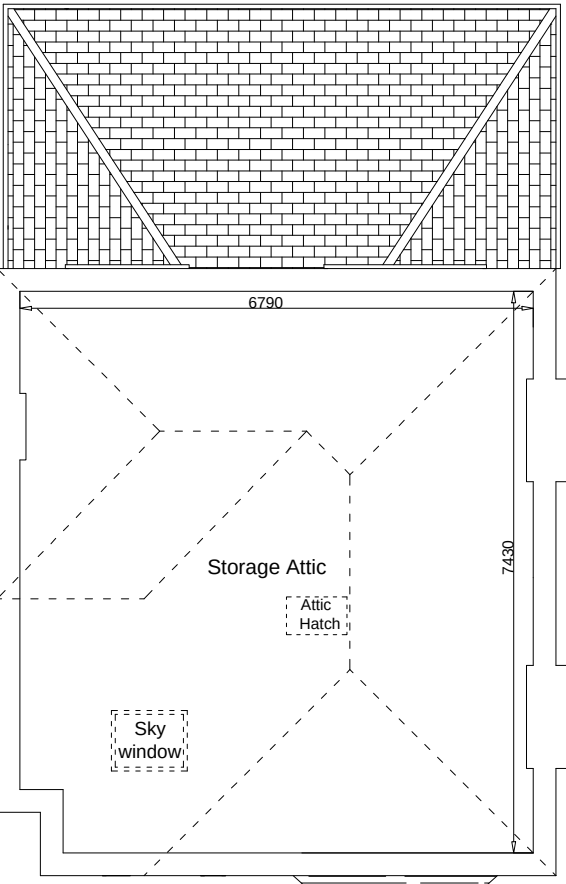
Scale 1:100
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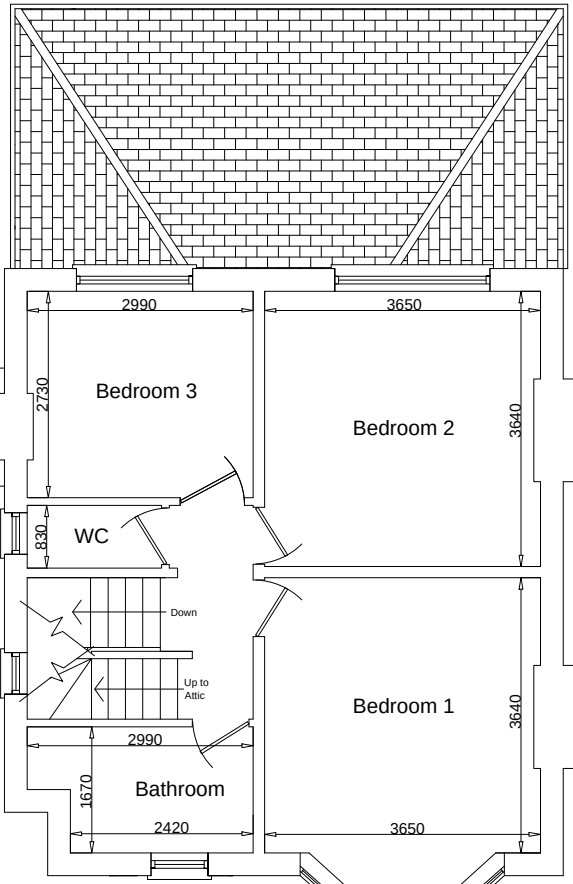
Existing Ground Floor Plan



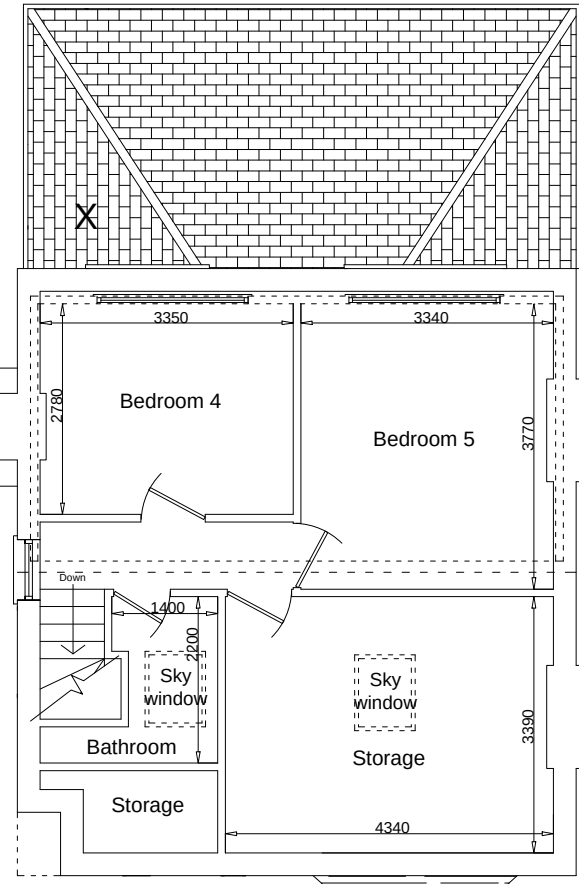
Existing First Floor Plan



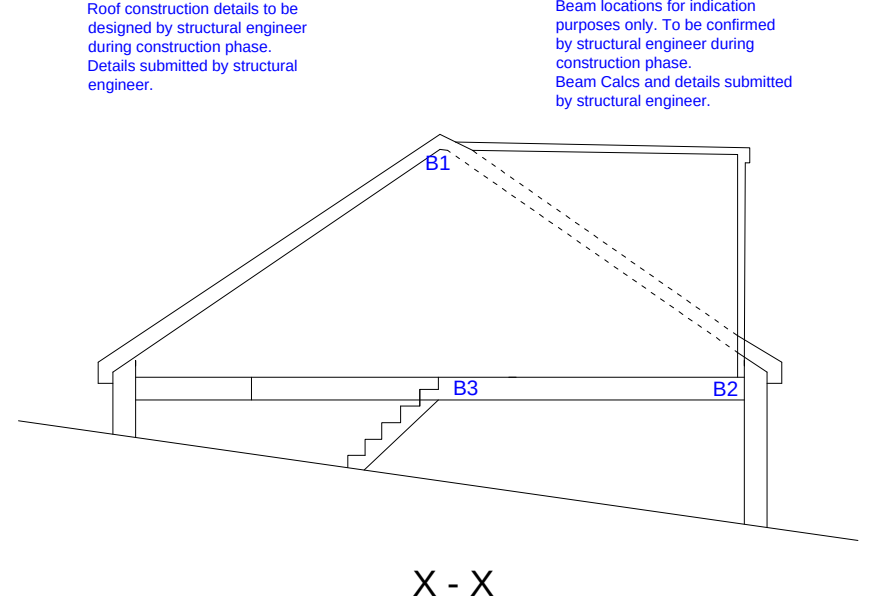
Existing Attic/ Second Floor Plan



Proposed First Floor Plan



Proposed Attic/ Second Floor Plan



FLAT ROOF CONSTRUCTION (COLD DECK TYPE). 12.5 mm PLASTERBOARD AND SKIM. 150 X 50 TANGLED S/W JOISTS C24 @ 300 C/C ON HEAVY DUTY JOISTS HANGERS. FIRING PIECES WITH FALL 1:40. INSULATION IN BETWEEN RAFTER TO BE CELOTEX CA4100 100mm THICK AND 50MM UNDER THE RAFTER CELOTEX CA4000 19MM WATERPROOF PLYWOOD DECKING. 3 LAYERS OF FELT OR ASPHALT ROOF COVERING. 20 MM FASCIA BOARD. 1000 X 30 X 5 MILD STEEL STRAPS SCREWED TO THE UNDERSIDE OF JOISTS AND WALL AT 1800 MM C/C.

DORMER WALL CONSTRUCTION:- TO BE CONSTRUCTED WITH 150 X 50 TREATED TIMBERSTUD WORK WITH 12.5mm FOIL BACK PLASTERBOARD AND SKIM COAT INTERNALLY, AND 18MM EXTERIOR GRADE PLYWOOD SCREWED TO STUDWORK AND BREATHABLE FELT WITH BATTENS FOR VERTICAL TILE HUNG WITH MATCHING TILES. INSULATION TO BE 100mm CELOTEX TUFF-R GA3100 BOARDS. TO DORMER FACE. PROVIDE AND FIX CODE 4 LEAD FLASHING AND SOAKERS AT JUNCTIONS WITH MAIN ROOF AND APRONS, ABUTMENTS ETC. TILES TO MATCH EXISTING. WITHIN 1m OF THE BOUNDARY THE EXTERNAL FACE OF THE PLYWOOD TO BE COVERED WITH 6mm MASTERBOARD.

LOFT FLOOR CONSTRUCTION:- FLOOR JOISTS 200X50 @300c/c C24. TIMBER FLOOR BOARDS WITH MINIMUM MASS PER UNIT AREA 15kg/m2. CEILING TO BE 12.5mm PLASTERBOARD AND SKIM COAT PLASTER. CAVITY TO BE FILLED WITH 100mm MINERAL WOOL WITH MINIMUM DENSITY OF 10 kg/m3.

SLOPING ROOF IN LOFT:- PROVIDE 50mm CROSS VENTILATION GAP TO ROOF. BETWEEN INSULATION AND ROOFING FELT. ROOF INSULATION TO BE TWO LAYERED SYSTEM WITH ONE CELOTEX 100mm X3100 BOARDS BETWEEN RAFTERS AND ONE 50mm GA3050 BOARD ON THE BOTTOM OF THE RAFTERS. WHOLE ROOF TO BE VENTED WITH CONTINUOUS PROPRIETARY VENTS AT GUTTER LEVEL AND RIDGE LEVEL OR USE BREATHABLE FELT.

NOTES ON LOFT:
1. ALL CEILINGS TO BE 12.5mm PLASTERBOARD AND 5mm SKIM.
2. ALL INTERNAL STUD PARTITIONS ARE TO BE 100X 50mm SAWN TIMBER @ 400mm c/c & HORIZONTALLY NOGGED @ 600mm c/c. TO BE LINED WITH 15mm SOUNDLOC PLASTERBOARD & 5mm SKIM ON BOTH SIDES. ALL PARTITIONS TO HAVE 100mm FIBERGLASS INSULATION.
3. ALL DOORS TO BE ½ HOUR FIRE RESISTANT.
4. DOOR STOPS TO BE 25mm X 35mm FIXED WITH SCREWS AT 2300c/c AND GULLED.
5. ALL STEELWORK TO HAVE ½ HOUR FIRE PROTECTION COMPRISING OF ONE LAYER 12.5mm PLASTERBOARD AND 5mm SKIM COAT OR FIRE PROOF PAINT.
6. PROVIDE INTERLINKED SMOKE DETECTOR TO EACH FLOOR LEVEL CONNECTED TO MAINS WITH BATTERY BACK UP. ALL DOORS TO HAVE DOOR CLOSER.
7. DOUBLE UP RAFTERS ON EITHER SIDE OF VELUX WINDOWS AND UNDER ANY PARTITIONS.
8. PROVIDE HOLDING DOWN STRAPS @ 1.2m c/c VIA SCREWED METAL STRAPS. WHERE RAFTER RUN PERPENDICULAR TO CEILING JOIST, EVERY RAFTER TO BE STRAPPED TO THE FIRST THREE CEILING JOISTS VIA METAL STRAPS.
9. ALL JOISTS THAT ARE BOLTED TOGETHER ARE TO BE BOLTED WITH M12 BOLTS AT 450 c/c.
10. PROVIDE 50mm CROSS VENTILATION GAP TO ROOF, BETWEEN INSULATION AND ROOFING FELT. ROOF INSULATION TO BE TWO LAYERED SYSTEM WITH ONE 100mm CELOTEX EXTRA-R X3100 BOARDS BETWEEN RAFTERS AND ONE 40mm GA3040 BOARD ON THE BOTTOM OF THE RAFTERS. WHOLE ROOF TO BE VENTED WITH CONTINUOUS PROPRIETARY VENTS AT GUTTER LEVEL AND RIDGE LEVEL OR USE BREATHABLE FELT.
11. NEW STAIRCASE TO HAVE GOING (min) 225mm AND RISERS (max) 220mm AND MAX PITCH 42 DEGREES. HEADROOM TO BE 2000mm MIN. PROVIDE ALL TRIMMERS AND HANDRAILS ETC. WINDERS TO HAVE MIN OF 50mm BEARING ON NEWEL POST. HAND RAIL TO BE 900mm ABOVE FLOOR LEVEL.
12. DORMER WALL TO BE CONSTRUCTED WITH 150 X 50 TREATED TIMBER STUDWORK WITH 12.5mm FOIL BACK PLASTERBOARD AND SKIM COAT INTERNALLY, AND 18MM EXTERIOR GRADE PLYWOOD SCREWED TO STUDWORK AND BREATHABLE FELT WITH BATTENS FOR VERTICAL TILE HUNG WITH MATCHING TILES. INSULATION TO BE 100mm CELOTEX EXTRA-R X3100 BOARDS. TO DORMER FACE. PROVIDE AND FIX CODE 4 LEAD FLASHING AND SOAKERS AT JUNCTIONS WITH MAIN ROOF AND APRONS, ABUTMENTS ETC. TILES TO MATCH EXISTING. WITHIN 1m OF THE BOUNDARY THE EXTERNAL FACE OF THE PLYWOOD TO BE COVERED WITH 6mm MASTERBOARD.
13. FLOORBOARDS TO BE 21mm T & G BOARDS AND PROVIDE 100mm ROCKWOOL FLEXI SLAB INSULATION BETWEEN JOISTS. SKIRTING AND ARCHITRAVE TO BE SOFTWOOD CGE.
14. FASCIA BOARD TO BE 20mm THICK, AND PROVIDE ALL RAINWATER CUTTERS AND DOWN PIPES

4 Windsor Road, Prestwich, Manchester

Scale 1:100
SCALE BAR 1:100

