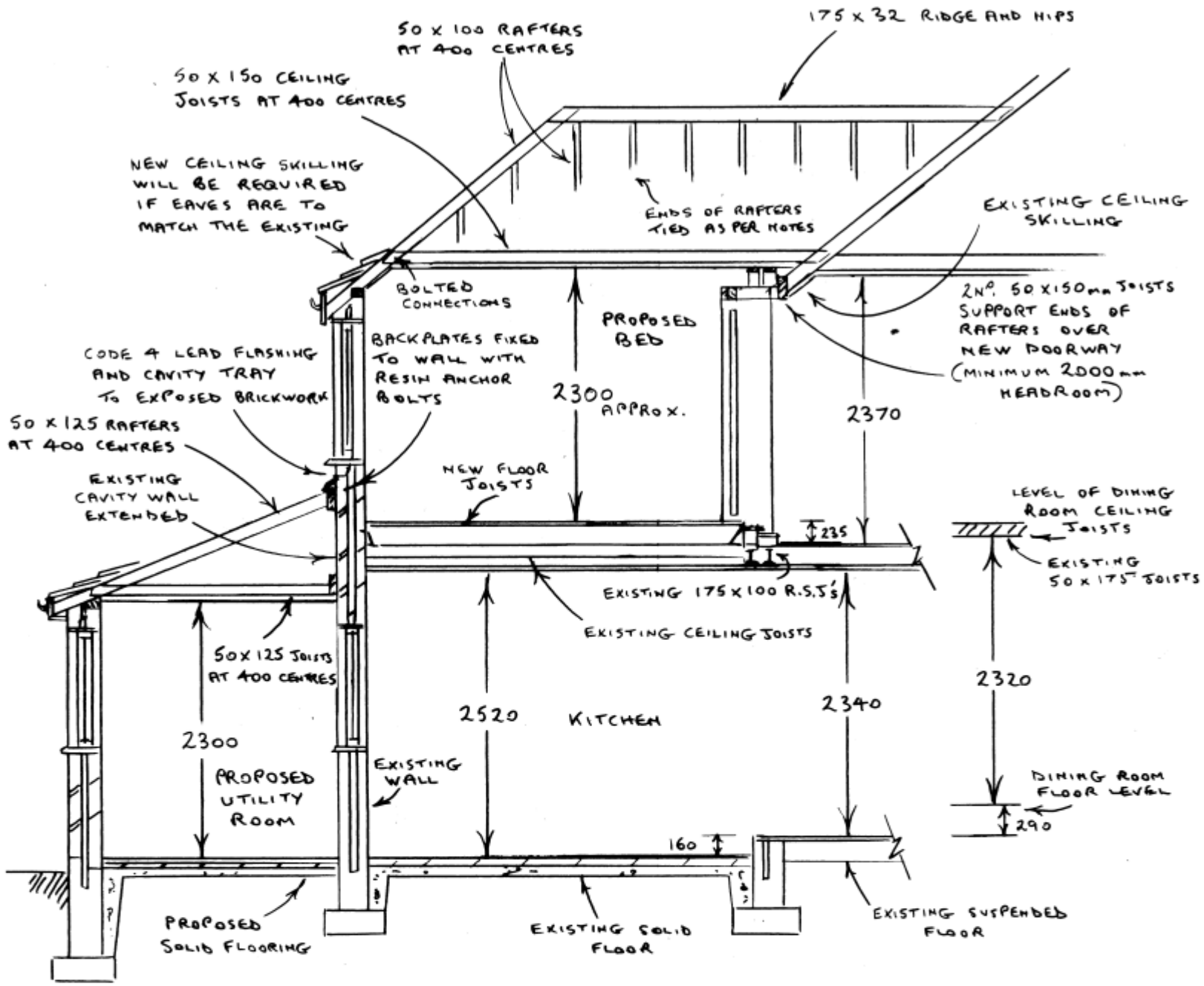
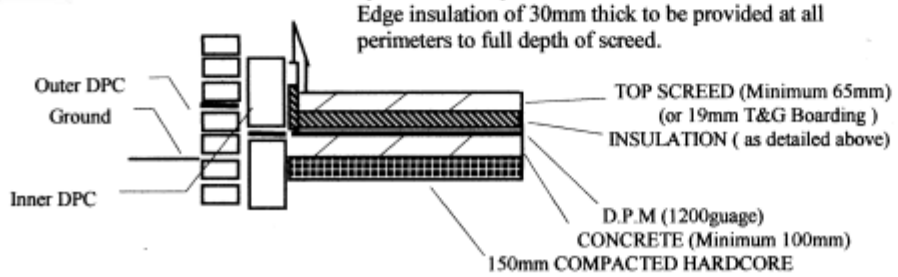


SECTION A – A 1:50

PERMIT

Provide insulation slabs to achieve 0.22 W/m²K
e.g. 85mm Celotex FF3000 foamboard, laid tight butt-jointed directly onto concrete slab and covered with a separating sheet of building paper to BS 1521 plus a 500g vapour control layer.
Edge insulation of 30mm thick to be provided at all perimeters to full depth of screed.



DETAIL OF SUB-FLOOR INSULATION

NOTES:
All dimensions to be checked on site before work commences at each stage, especially where boundaries are concerned.
Adequate headroom to be determined for stairs and doors before fitting.
This plan to be taken in conjunction with any schedule of works prepared by the property owner, and any consultants calculations.
The suitability of existing doors or windows for re-use is not guaranteed.

FOUNDATIONS:- STRIP CONCRETE FOUNDATIONS 600mm WIDE, 225mm THICK. FOUNDATIONS TO INTERNAL WALLS 300mm WIDE 225mm THICK.
FOUNDATIONS WITHIN 1 METRE OF DRAIN TO BE AT OR BELOW INVERT OF THAT DRAIN.
STANDARD FOUNDATION DEPTH 1m OR TO SUIT SITE SOIL CONDITIONS AND L.A. APPROVAL. ANY SEWER PASSING THROUGH FOUNDATION WALLS TO BE PROTECTED BY CONCRETE LINTELS AND 50mm GAP. ALL DRAINS PASSING UNDER BUILDING TO BE EXPOSED AND PROTECTED TO SATISFACTION OF LOCAL AUTHORITY.

EXISTING FOUNDATIONS:- EXISTING FOUNDATIONS AND SUPERSTRUCTURE TO BE EXPOSED AS NECESSARY TO ASSESS THEIR SUITABILITY FOR INCREASED LOADS, AND STRENGTHENED OR UNDERPINNED AS NECESSARY.

CAVITY WALLING:- CAVITY WALL (U VALUE 0.28 W/m²K)
100mm BLOCK AND RENDER OUTER, MINIMUM 50mm CAVITY, PLUS 50mm CELOTEX CG4000 PARTIAL FILL INSULATION OR EQUIVALENT AGAINST INNER SKIN OF 100mm AIRCRETE INSULATING BLOCK.
BLOCKWORK TO BE BONDED TO EXISTING. CAVITY TO BE CONTINUOUS AT JUNCTIONS AND CLOSED AT EAVES LEVEL WITH NON COMBUSTIBLE CONSTRUCTION. PLUS INSULATED CAVITY CLOSERS TO OPENINGS. WALL TIES TO BE AT 600mm HORIZONTAL AND 450 VERTICAL CENTRES, PLUS 225mm CENTRES VERTICALLY EACH SIDE OF OPENINGS. CAVITY TO BE MAINTAINED A MINIMUM OF 225mm BELOW LOWEST DPC.

INTERNAL WALLING:- PROVIDE A MINIMUM OF 40dB SOUND INSULATION TO ANY INTERNAL WALLING BETWEEN A BEDROOM OR BATHROOM AND ANY OTHER ROOM. USE PARTITION WALLING WITH MINIMUM 75mm STUDWORK FILLED WITH A SUITABLE INSULATION MATERIAL SUCH AS 65mm ISOWOOL APR 1200.

FLOORING:- SOLID FLOOR (U VALUE 0.22 W/m²K)
MINIMUM 65mm SCREED OR 19mm T&G BOARDING ON DPM 1200g ON INSULATION BOARD e.g. 85mm CELOTEX FF3000 OR EQUIVALENT.
INSULATION SLABS TO BE COVERED WITH A SEPARATING SHEET OF BUILDING PAPER TO BS1521, AND LAID TIGHT BUTT JOINTED DIRECTLY ONTO MINIMUM 100mm CONCRETE SLAB, WITH EDGE INSULATION OF 30mm TO BE PROVIDED AT ALL PERIMETERS TO FULL DEPTH OF SCREED. ON 150mm COMPACTED HARDCORE

D.P.C.:- FLOORING D.P.M. 1200g POLYTHENE AT LEVEL NOT LOWER THAN SURFACE OF GROUND, AND CONTINUOUS WITH WALLING D.P.C. WALLING DPC MINIMUM 150mm ABOVE GROUND LEVEL.
HORIZONTAL AND VERTICAL DPC TO ALL NEW REVEALS TO BS.743.

PITCHED ROOFING:- INSULATION ON CEILING JOISTS (U VALUE 0.16 W/m²K)
270mm FIBREGLASS INSULATION BETWEEN AND OVER CEILING JOISTS.

TILES TO MATCH EXISTING ON 38 x 25mm BATTENS ON APPROVED REINFORCED UNDERLAY.
ROOF TO BE STRAPPED TO EXTERNAL WALLS BY 5 x 30mm MILD STEEL ANCHORS AT 2m SPACING.
REMAINDER ROOF DESIGN AS DETAILED ON PLANS AND SECTIONS. PLUS RAFTER ENDS TO BE STRAPPED TO WALLPLATE WITH 2.5 x 30mm M.S. STRAPS. WHERE NO CEILING JOISTS EXIST.

PROVIDE CAVITY TRAY AND CODE 4 LEAD FLASHING WHERE NEW ROOF ABUTS HOUSE WALL.
PROVIDE CODE 5 LEAD FLASHING TO VALLEYS OR EQUIVALENT IN METAL / GRP (GLASS REINFORCED PLASTIC)

FIRST FLOOR:- 21mm T&G BOARDING ON FLOOR JOISTS. PLUS PROVIDE SOLID OR HERRINGBONE STRUTTING AT ONE THIRD OF SPAN CENTRES, WITH MINERAL WOOL INSULATION BETWEEN JOISTS TO ACHIEVE MINIMUM 45dB AIRBOURNE SOUND TRANSMISSION.

VENTILATION:- NEW AND EXISTING ROOMS TO HAVE 1/20th FLOOR AREA VENTILATION PROVIDED BY WINDOWS AS DETAILED ON PLAN, TOGETHER WITH TRICKLE VENTS GIVING 8000mm² VENTILATION.

PITCHED ROOF TO HAVE A SOLID BREATHABLE MEMBRANE LAID OVER RAFTERS.

BATH OR SHOWER ROOM TO HAVE ADDITIONAL MECHANICAL VENTILATION WITH AN EXTRACTION RATE NOT LESS THAN 15 LITRES/SEC WHICH MAY BE OPERATED INTERMITTENTLY.

UTILITY ROOM TO HAVE EXTRACTION FAN WITH 30 LITRES/SEC.

ANY EXISTING UNDERFLOOR VENTILATION TO BE MAINTAINED BY USE OF 100mm DUCTING IN THE SOLID FLOORING, TERMINATING IN 225 x 75mm TERRA COTTA VENTILATING BRICKS AND CAVITY LINERS AT 900mm CENTRES.

GLAZING:- TOUGHENED SAFETY GLASS TO BS.6206 1981 TO BE USED BELOW 800mm IN ANY WINDOW GLAZING, OR BELOW 1500mm IN ANY PATIO AND GLASS DOORS, OR ANY GLAZING WITHIN 300mm OF THESE DOORS. ALL GLAZING TO NEW WINDOWS AND DOORS, WITH MORE THAN 50% GLASS, TO ACHIEVE A 'U' VALUE OF 1.6W/m²K. WITH 16mm AIRGAP AND SOFT LOW E COATING GLASS. PLUS ALL REMAINING GLASS TO BE D/G.

DRAINAGE:- TO BS 8301. - AS DETAILED ON PLANS. TAKE DRAINAGE TO EXISTING SOIL PIPE.

PLUMBING:- TO BS 5572. - PROVIDE BATH WITH THERMOSTATIC MIXING VALVE PLUS PROVIDE 40mm BATH AND 32mm WASHBASIN UPVC DISCHARGE PIPES VIA ANTI-VAC TRAPS TO EXISTING SOIL PIPE.

SMOKE DETECTION:- PROVIDE MAINS OPERATED INTERLINKED SMOKE DETECTORS WITH BATTERY BACKUP, TO THE CIRCULATION AREAS ON EACH FLOOR.

COLD BRIDGING:- COLD BRIDGING EFFECT TO BE AVOIDED ACROSS CILLS AND JAMBS BY USE OF LINTELS WITH INTEGRAL INSULATION AND INSULATED VERTICAL D.P.C. TOGETHER WITH CAVITY CLOSURES.

M.O.E. WINDOW:- PROVIDE A MEANS OF ESCAPE WINDOW TO NEW BEDROOM WITH MINIMUM OPENING OF 0.33m². AND CLEAR OPENING OF 750 x 450mm. PLUS LOWER CILL MIN. 800mm MAX. 1100mm, ABOVE FLOOR LEVEL.

LIGHTING:- 75% OF ALL NEW LIGHT FITTINGS TO ONLY TAKE BE HIGH EFFICIENCY LAMPS (GREATER THAN 40 LUMENS /CIRCUIT WATT).

HEATING:- INCLUDE THERMOSTATICALLY CONTROLLED VALVES OR EQUIVALENT TO ANY RADIATORS FITTED IN NEW AREAS, PLUS ANY NEW BOILER TO BE CONDENSING TYPE WITH A MINIMUM EFFICIENCY OF 92%

ELECTRICAL WORK:- ALL NEW ELECTRICAL WORK IS REQUIRED TO MEET PART P (ELECTRICAL SAFETY) AND TO BE DESIGNED, INSTALLED, INSPECTED AND TESTED BY A PERSON COMPETENT TO DO SO.
A COPY OF THE ELECTRICAL INSTALLATION CERTIFICATE TO BS 7671:2008 TO BE SUBMITTED TO THE COUNCIL PRIOR TO COMPLETION OF WORK.

ROGER CLARK (ARCHITECTURAL SERVICES)
Tel: 023 9237 3841

PLAN No: **24349 / 4**

Drawing : **Structure & Details** Scale : **1:50**

PROPOSED EXTENSION
16 FISHERY LANE
HAYLING ISLAND