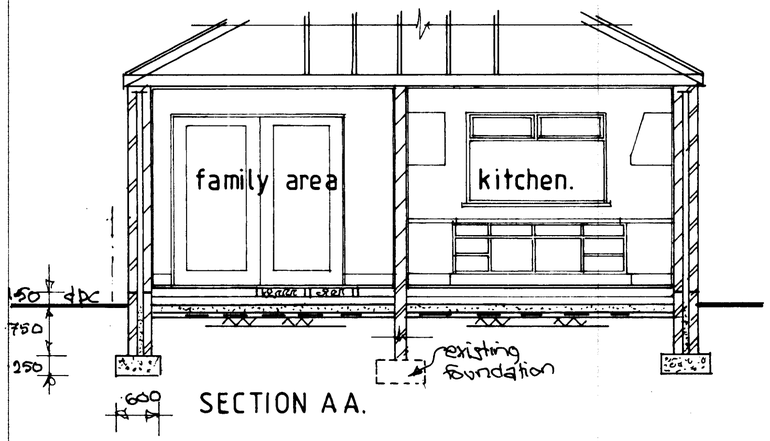
For roof details please refer to our structural Engineers calculations.



SECTION AA.

Proposed construction:-

Foundations:- New foundations to be ·600 x ·250 mm concrete strip foundations. foundations to be taken down to a safe bearing strata, final depth to be ascertained and agreed on site between the Building Control officer and the Building contractor on valuation of the ground conditions. The brickwork below ground level to be filled with weak mix concrete, concrete strength c.30 N/m² [foundations depth to be taken down to drainage invert level where within 1.000 approximatly].

Floor construction:- to kitchen family room:- finish to clients choise on ·22mm C.A. [V313] chipboard deck on ·150 x 38mm S/W joists at ·600mm centrers. [class S.C.3] joists to be filled with ·135mm jabite rigid insulation, ·150mm air space between bottom of joist and concrete slab, to maintain ventilation via air bricks, on ·100mm concrete slab on 1200 gauge visqueen damp proof membrane on sand blinding on min ·150mm Sulfate free well consolodated hardcore. Insulation to give 0·20 m/m² c.u.v.
Floor to study games room and storage area:- screed on ·100mm concrete floor on ·135mm jablite Insulation on 1200gauge visqueen damp proof membrane, on sand blinding on min ·150mm Sulphate free well consolodated hardcore. D.P.M. to be turned up at edges of the concrete slab Insulation to give 0·22 m/m² c.u.v. Insulation to have all joints taped.

Cavity wall construction:- Internal leaf to be ·100mm Thermalite Turbo [0·11 w/mk] Insulation blockwork with 12·5mm plaster and and skim Finish. 85mm cavity fully filled with drytherm insulation built in as work progresses. external leaf to be ·112mm facing brickwork. bricks to match those of the existing building. sample to be provided for approval of the planning officer before work commences. Overall Insulation to give 0·30 m/m² walls to have stainless steel wall ties at ·450mm centrers virtically and ·750mm horizontally [ties to be staggered] wall ties to be at ·225mm virtical centrers within ·225mm of openings and reveals. All virtical openings to have insulated type d.p.c's to prevent cold bridging. tops of cavities to be closed off with particle board on cement bed.

Lintels:- Catnic lintels to be used over doors and window openings. lintels to be C.G/700/100 combined lintels; lintels to be encased in 2 layers of plasterboard and skim finish to provide ½ hour fire resistance.

Structural Steelwork: For details please refer to our structural Engineers design and calculations. all steelwork to be encased in 2 layers plasterboard and skim finish to give ½ hour fire protection.

Windows:- to match those of the existing building. windows to be in white U.p.v.c. windows to have opening lights of not less than 1/20th of the floor area for natural ventilation and to include controlable secure trickel ventilator of min 9000 m². The double glazed units to have min cavity of 16mm and to be argon filled. The double glazed units not to exceed 1·8 w/m² c.u.v.

Doors:- To have the same U values as the double glazed units. The glazing to be in Safety glass.

Stud partition:- to be ·75 x 50mm timber stud wall with plasterboard and Skim both sides. timber studs to be fixed virtically at ·600mm centrers and horizontally at ·900mm centrers. with ·75 x 50mm wall plates fixed at head and floor. partitions to be filled with Rockwool Insulation.

Electrical Works:- All wiring and electrical work will be designed, Installed, Inspected and Tested inacordance with B.S. 7671 I.E.E Part P [Electrical Safety] by a competant person authorized by the secretary of state, and the competant person is to send to the Local Authority a "Self Certification certificate", within 30 days of the completion of the Electrical Works. The Client is to be provided with a copy of the "Self Certification certificate", and a copy of the Electrical Test certificate B.S. 7671. new sockets and switches heights are to be located inacordance with Part M guidance, all fittings to be energy efficient.

Mechanical Ventilation:- To the kitchen to have extract rate capable of extracting at a rate not less than 60 litres per second operated through the cooker hood. The W.C. to have extract system rated capable of extracting at a rate not less than 15 litres per second and operated locally with a 15 minute overun.

PLANNING
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REPLIED
RECT 25 MAR 2010
DATE
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M
M
REGISTRATION

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