Demolish existing conservatory to make way for extension.

Build on extension in the manner shown.

External Materials
Roof tiles and facing bricks to match those of existing.

Roof pitch, ceiling height, fascia line, soffit, etc., all to match existing.

Existing garage flat roof to be removed and walls to be raised as necessary to allow for new pitched roof, all to match in with existing roof.

Existing garage to be converted to utility and WC as shown. Dry-line external garage walls with 100mm *Celotex insulation.*

Form openings in 100mm external walls for window and door as shown, support over with IG Type L10 lintels.

Form openings in external walls as shown, support over with IG L1/S lintels.

Build in new windows and doors where shown.

Brick up garage door all to match existing.

Existing garage floor to be leveled up to suit bungalow floor as necessary.

Form opening in external wall to create lounge as shown, support over with IG L1/XHD/75.

Form opening in internal wall as shown to create open kitchen/dining room, support over with IG Box 100 lintel.

Remove existing fireplace and chimney. Make good to roof area as necessary.

Block up existing openings where shown.

New extension floor to be laid level with existing.

Form new 100mm stud partition walls and internal doors as shown.

Make good to all disturbed and affected areas.

Roof Ventilation
At eaves provide proprietary *ventilation equivalent to* a 10mm continuous gap along eaves.

Valleys
Use proprietary fibreglass valleys or provide Code 4 lead to valleys to make completely watertight.

Kitchen Ventilation
Provide proprietary mechanical extract ventilation unit capable of extracting 60 lt/sec. Alternatively provide proprietary cooker hood capable of extracting 30 lt/sec.

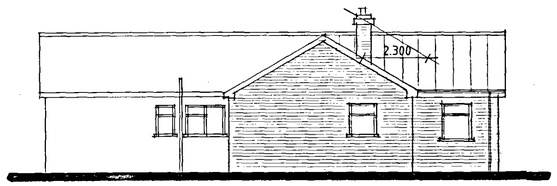
Flue Construction
Provide 225mm diameter clay flue liners to BS1181, 1971, with minimum 100mm brick surround. Flue to extend past ridge as stated in Approved Document J1/2/3 Part B and to terminate in 75mm concrete capping and clay pot. Provide Code 4 lead flashing to roof intersection. Provide 2 no. courses of engineering brick or similar as d.p.c. No timbers to be within 40mm of chimney. Chimney also to be read in conjunction with Approved Document A1/2 Section 1D. Fill around chimney liners with 6 parts Vermiculite and 1 part cement

Combustion Air
Provide proprietary ventilator to room of open fire at low level to outside air (ideally opposite open fire) to give combustion air equivalent to 50% of the cross sectional area of the throat opening on the appliance. Alternatively, provide proprietary underground ducting from appliance to outside air to give above.

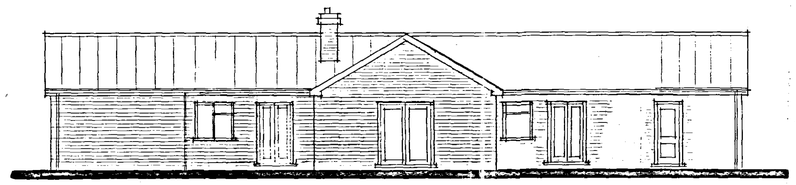
Meter Boxes
Position gas and electricity meter boxes if required in external position to suit client, to be completely sealed around *in non-combustible material*, to be minimum 500mm, maximum 1000mm above footpath to base.

Roof/Wall Abutments
Provide Code 4 lead flashings and lap over roof covering. Dress up wall a minimum of 150mm (stepped on pitched abutments) and provide d.p.c. cavity tray to make completely watertight.

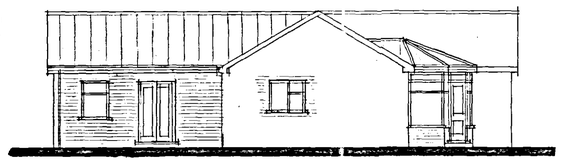
New/Old Walling
Where new walling meets old provide proprietary flexible wall starters.



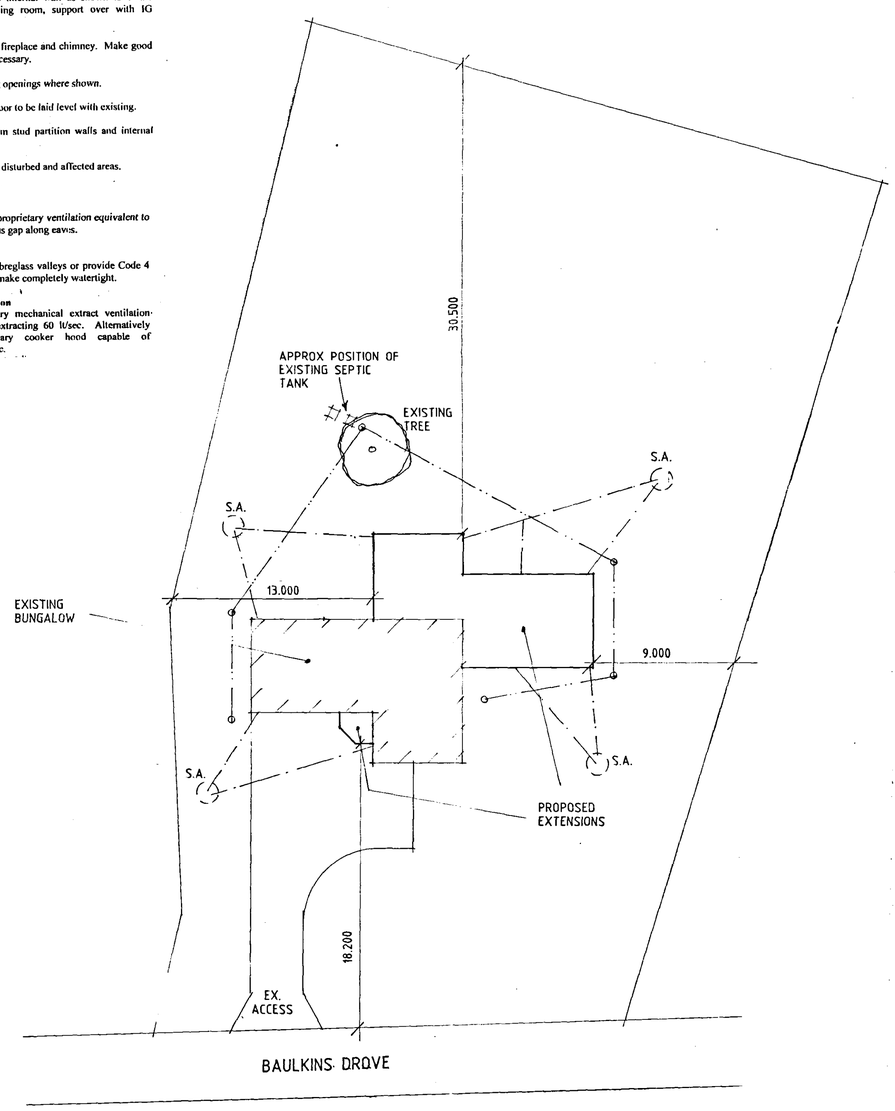
SIDE



REAR



SIDE



SITE PLAN

Bathroom/En-suite Ventilation
Provide proprietary mechanical extract ventilation unit capable of extracting 15 lt/sec. System to offer intermittent operation.

Hot Water Storage
Provide system approved by BBA and installed by BBA approved installer. System to be vented and insulated in accordance with BS5615 1985. Provide thermostatic control.

Heating System
Provide room thermostat or thermostatic radiator valves or similar approved to control the output from the heating system.

Insulated Pipes and Ducts
All pipes, which do not contribute to the heating of the building, will be insulated to BS5422 1977.

Safety Glazing
Provide safety glass to BS6206 to all windows to a minimum height of 800mm above floor level plus doors to a minimum height of 1500mm above floor level. Side screens to be same as *doors if within* 300mm of doors.

Smoke Detection
Provide mains operated self-contained smoke alarms to BS5446 Part 1 in accordance with Approved Document B1.

Rainwater Goods
PVC rainwater goods 110mm half round gutters and 68mm diameter downpipes.

Habitable Room Trickle Ventilation
Provide proprietary trickle ventilators to head of windows giving a total opening area of not less than 8000mm²

Kitchen/Utility/Bathroom/WC Trickle Ventilation
Provide proprietary trickle ventilators to head of window giving a total opening area of not less than 4000mm²

Utility Ventilation
Provide proprietary mechanical extract ventilation unit capable of extracting 30 lt/sec. System to offer intermittent operation.

Roof Insulation
To roof spaces provide proprietary 300mm thick fibreglass insulation laid as 100mm between joists and 200mm across joists or equivalent to give 0.25 U/value. Ensure a gap of 50mm between roof underfelt and quilt at all times.

Foul Water Drainage
Underground drainage to be proprietary 110mm diameter p.v.c. pipes flexible jointed to fall 1:70 *bedded in 100mm pea gravel. Under building drains* to be encased in 150mm pea gravel with lintel over pipes at wall abutments. Where drain passes through wall, provide suitable protection to prevent gas ingress to building. 110mm diameter soil and vent pipe to extend 900mm above window head and to terminate in balloon finial. Soil and vent pipe to be fitted with access plate at base. Provide suitably sized wastes from all appliances (in accordance with Approved Document H) complete with minimum 75mm deep sealed traps and rodding eye access points at every direction change. All above ground drainage to BS5582 and all underground drainage to BS8301. Provide seal plates both sides of pipe entry to avoid vermin entry.

Surface Water Drainage
To be proprietary 110mm diameter p.v.c. pipes flexible joined to fall 1:70 bedded in 100mm pea gravel. Pipes to discharge into 1200mm diameter soakaways sited 5000mm away from buildings.

Protection to Underground Pipes
Where pipes are not under road and have less than 600mm cover concrete paving slabs should be laid as bridging above the pipes on minimum 75mm pea gravel. *If flexible pipes are under a road and have* less than 900mm cover reinforced concrete bridging should be used instead of paving slabs. Provide compressible material below slab/concrete.

Inspection Chamber Construction
Proprietary polypropylene inspection chambers bedded on 150mm concrete. Form protective 255mm thick *concrete collar around* head of inspection chamber with 300mm projection from cover. Covers to be Grade C light *duty unless inspection chambers* are in driveways where Grade B medium duty covers are to be used.

Open Fire
To be capable of burning smokeless fuel. Hearth to be 125mm high above finished floor level. Flue liners to BS1181 1971 (sockets up). Build into brick *jambs of open fire 2 no. metal anchorage points.* Notice plaques for hearths and flue as per Diagram 1:9 App. Doc. J

Boiler
Provide balanced flue type oil fired boiler of required rating in position indicated on drawing to be either a wall hung type or free standing on 125mm high concrete hearth above oversite. Boiler to have protective guard cover and to be minimum 600mm from any opening into the building. Read in conjunction with Approved Document J1/2/3. At completion of works commissioning of heating system to be provided to the local authority Building Control by a competent Corgi registered person. Boiler to have a Sedbuk rating of 86%

Roof Intersections
If compound truss used; where main trusses fix to compound truss provide proprietary truss connectors. Provide 32 x 175mm valley lay boards and fix reducing trusses over to complete roof intersection. Fix in accordance with roof truss manufacturers instructions.

Roof Construction
Concrete interlocking roof tiles (see site plan for details) on 38 x 25mm softwood treated timber battens on underfelt to BS747 (Type 1F) lapped 150mm horizontally and 100mm vertically. Prefabricated roof trusses at 600mm c/c and pitch as stated in accordance with BS5268, 1985. Provide *25 x 100mm timber bracing and fix in accordance* with truss manufacturers instructions. All trusses and gable ladders (if any) to be strapped to 50 x 100mm timber wallplate, the gable wall at verges and ceiling level with 30 x 5mm mild steel anchor and lateral restraint straps to span minimum 3 no. trusses at a maximum of 1200mm c/c. At strap positions provide pack and noggins to trusses. Main contractor to supply local authority building control with roof truss calculations 28 days prior to erection on site. Provide concrete padstones at compound truss supports where *required by roof design.* Water storage tanks to be installed in accordance with Technical Bulletin No. 41.T.P.A. with timber support members to span 4 no. trusses.

Ceilings
To all insulated roof ceilings provide 12.5mm Gyproc Duplex plasterboard of 10kg/m² or similar and either 5mm skim or Artex finish. To remaining ceilings provide 12.5mm Gyproc plasterboard or similar with finishes as above.

Lintels
All coded lintels as stated in Schedule or marked on *plan to be by* I.G. *To be installed in strict* accordance with manufacturers instructions. Form *d.p.c. cavity tray above all lintels.* To all exposed lintels i.e. not sheltered from overhanging eaves, etc. to have proprietary weepholes to joints of brickwork at approximately 450mm c/c. To be confirmed on site with Building Control Surveyor

Opening at eaves level to be L1/E lintels by I.G. or similar approved.

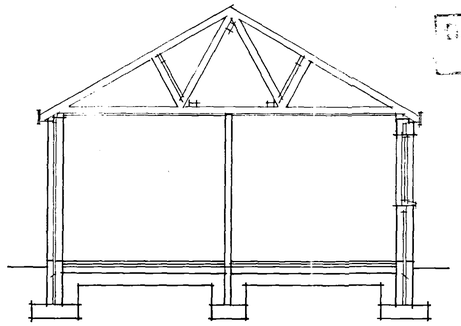
Sub-structure Walling
100 mm Class A dense concrete blocks. Bitumen felt d.p.c. to external walls 150mm above ground level. Weak mix infill to base of cavities to terminate 225mm below lowest d.p.c. level.

Foundations
As indicated on plan provide concrete strip foundations. To cavity walls provide 700mm wide x 225mm thick and to 100mm walls provide 450mm wide x 225mm thick, unless noted otherwise. To non-load bearing internal walls thicken out ground floor oversite concrete to 450mm wide x 200mm thick. Widen foundations at *chimney breast* accordingly and make 300mm thick. Foundations to be taken down to *an approved firm base*, subject to local authority specifications. Concrete to be ST3 grade *unless noted otherwise.* Proximity of existing and proposed trees are to be taken into account in accordance with N.H.B.C. chapter 4 when determining foundation depth.

I.G. Type L1/S75 lintels to cavity walls and I.G. type internal lintels to 100mm internal walls unless stated otherwise. To be confirmed on site with Building Control Surveyor.

All windows to give minimum 1/20th of floor area as ventilation and to be double-glazed.

Glazing
All windows and doors to be double-glazed with *minimum* 16mm spacing and to use Pilkington 'K' glass or similar approved, efficiency of 0.05.



TYPICAL SECTION

Commissioning of Heating and HWS Systems
A competent person, i.e. the main contractor or sub-contractor shall supply a *Certificate of Satisfactory* Compliance with Building Regulations Part L. A copy of *which shall* be made available to both the client and the Building Control body.

A suitable set of operating and maintenance instructions are to be made available to the client to explain to the householders how to operate the systems so that they can perform efficiently and what routine maintenance is advisable for the purpose of the conservation of fuel and power.

Internal Lighting
Provide energy efficient lights that only take lamps having a luminous efficiency greater than 40 lumens per circuit watt. Examples of lamps are fluorescent tubes and compact fluorescent lamps (note GLS tungsten lamps with bayonet cap or Edison screw bases).

Method of determining number of locations:

Provide energy efficient lights of one per 25m² of floor area or one per four fittings whichever is the largest.

Excludes garages, lofts and outhouses.

Oil Tank
To be sited a minimum 1800mm from any building and a minimum 760mm from any boundary. Tanks to be bunded to give 110% capacity of the largest tank they contain or the tank should be double skinned

Electrical Work
All electrical work required to meet the requirements of Part P (electrical safety) must be designed, installed, inspected and tested by a person competent to do so. Prior to completion of the works the council must be satisfied that either:-

a) an electrical installation certificate issued under a competent person's scheme has been issued

or

b) an appropriate electrical installation certificate has been issued for the work, and that it has been signed by a person competent to do so.

Hearths and Flues
A suitable notice in regard to the correct application and use of hearths and flues should be provided within the property. It is suggested that this is contained within a property log book. An example of the layout would be:

IMPORTANT SAFETY INFORMATION
(This information should be available at all times and not removed from the property)

Property address ..... (e.g.20 Main Street)
The hearth and chimney installed in the .....
(e.g. lounge) are suitable for ..... (e.g. decorative fuel effect gas fire.
Chimney liner .....(e.g. double skin stainless steel flexible 200mm diameter)
Suitable for condensing appliances .....(e.g. no)
Installed on .....(date)
Other information .....(designation of stainless steel liner T450 N2 S D 3)
Installer's name and address .....

Extension Wall Construction
275mm cavity walls to consist of: -
100mm face brickwork (see *site plan for details*), 75mm cavity to be filled with Crown Dritherm 32, *100mm internal skin of Tarmac Durox* Supabloc or similar approved to give 0.29 U value.
Cavity wall ties to be stainless steel type spaced 900mm horizontally and 450mm vertically to BS1243, 1978. Internal blockwork walls to receive 10mm sand/cement render and skim finish. Robust details in accordance with T50, 2001.

Extension Ground Floors
65mm sand/cement screed on *proprietary 100mm* Celotex with perimeter insulation to screed on 1200 gauge polythene d.p.m. on 100mm concrete oversite on minimum 150mm, maximum 600mm well blinded *and compacted* hardcore. Wall d.p.c. to lap floor d.p.m. by a minimum of 50mm.

Brickwork below d.p.c. to be F.L. quality

Outlets from balanced flue boilers to be at least 300mm from any openings.

All soakaways to be minimum 1m deep.

Provide cavity trays above in situ meter boxes.

All external lintels to be insulated type.

All external joinery to be fully draught proofed.

Loft hatch to be draught sealed and latched shut.

Insulation in roof space to meet with insulation in *external cavity walls* to prevent cold bridging.

To all domestic floors to external perimeter walls provide 25mm thick insulation dressed up walls to prevent cold bridging.

Seal all openings and joints to perimeter walls.

All doors, windows and any loft hatches to be effectively sealed and draught proofed.

Provide a fibrous separating membrane between floor screed and insulation and provide chicken wire between insulation and screed.

SHDC
PLANNING & DEVELOPMENT
- 6 DEC 2006
Ref. 1692/06

A - DESIGN ALTS - 28.9.06

DETERMINED PLAN

THIS DRG. TO BE READ IN CONJUNCTION WITH
SD06-037/1, SD06-037/2

Status
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED EXTENSIONS AT DEB BRUANN, BAULKINS DROVE, SUTTON ST. JAMES FOR

MRS. R. CRUTCHLEY.

SITE PLAN / ELEVATIONS

1:50 1:100 1:200 | SD06-037/3

AUG-06 | B.GILHAM.

2 Edinburgh Walk, Holbeach,
Spalding, Lincs. PE12 7AP.
Tel: 01406 424343 Fax: 01406 490702