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

Wall Construction
275 mm cavity walls to consist of:
100 mm face brickwork (see site plan for details), 75 mm cavity to be filled with Crown Dritherm full fill insulation in accordance with BBA Certificate No. 86/1678 or similar approved, 100 mm internal skin of Tarmac Hemelite blockwork. Cavity walls tied together using galvanised iron or plastic twist ties spaced 900 mm horizontally and 450 mm vertically to BS1243, 1978. Internal blockwork walls to receive 10 mm sand/cement render and skim finish.

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

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

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 200 mm thick insulation laid as 100 mm between joists and 100 mm across joists. Ensure a gap of 50 mm between roof underfelt and quilt at all times.

Foul Water Drainage
Underground drainage to be proprietary 110 mm diameter p.v.c. pipes flexible jointed to fall 1:70 bedded in 100 mm pea gravel. Under building drains to be encased in 150 mm pea gravel with lintel over pipes at wall abutments. Surround pipes at wall abutments with 50 mm compressible material. 110 mm diameter soil and vent pipe to extend 900 mm 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 75 mm deep sealed traps and rodding eye access points at every direction change. All above ground drainage to BS5582 and all underground drainage to BS8301.

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

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

Inspection Chamber Construction
Proprietary polypropylene inspection chambers bedded on 150 mm concrete. Form protective 255 mm thick concrete collar around head of inspection chamber with 300 mm 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 125 mm high above finished floor level. Flue liners to BS1181 1971 (sockets up). Build into brick jambs of open fire 2 no. metal anchorage points.

Roof Intersections
If compound truss used; where main trusses fix to compound truss provide proprietary truss connectors. Provide 32 x 175 mm 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 25 mm softwood treated timber battens on underfelt to BS747 (Type 1F) lapped 150 mm horizontally and 100 mm vertically. Prefabricated roof trusses at 600 mm o/c and pitch as stated in accordance with BS5268, 1985. Provide 25 x 100 mm timber bracing and fix in accordance with truss manufacturers instructions. All trusses and gable ladders (if any) to be strapped to 50 x 100 mm timber wallplate, the gable wall at verges and ceiling level with 30 x 5 mm mild steel anchor and lateral restraint straps to span minimum 3 no. trusses at a maximum of 1200 mm o/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.

Fascia and Bargeboards
To be 25 x 75 mm PSE with 6 mm groove to accept 6 mm thick exterior grade plywood soffit.

Flue Construction
Provide 225 mm diameter clay flue liners to BS1181, 1971, with minimum 100 mm brick surround. Flue to extend past ridge as stated in Approved Document J1/2/3 Part B and to terminate in 75 mm 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 40 mm of chimney. Chimney also to be rend in conjunction with Approved Document A1/2 Section 1D.

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 500 mm. maximum 1000 mm above footpath to base.

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

Valleys
Use proprietary fibreglass valleys or provide Code 4 lead to valleys to make completely watertight.
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 800 mm above floor level plus doors to a minimum height of 1500 mm above floor level. Side screens to be same as doors if within 300 mm of doors.

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

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

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

Lintels
All coded lintels as stated in Schedule or marked on plan to be by
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 450 mm c/c.

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

Foundations
As indicated on plan provide concrete strip foundations. To cavity walls provide 700 mm wide x 225 mm thick and to 100 mm walls provide 450 mm wide x 225 mm thick, unless noted otherwise. To non-load bearing internal walls thicken out ground floor oversite concrete to 450 mm wide x 200 mm thick. Widen foundations at chimney breast accordingly and make 300 mm thick. Foundations to be taken down to an approved firm base, subject to local authority specifications. Concrete to be ST3 grade unless noted otherwise.

I.G. Type L1/S75 lintels to cavity walls and I.G. type internal lintels to 100 mm internal walls unless stated otherwise.

Notes

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

Any bends in flues should not be more than 45°.

All soakaways to be minimum 1 m 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 25 mm thick insulation dressed up walls to prevent cold bridging.

Seal all openings and joints to perimeter walls.

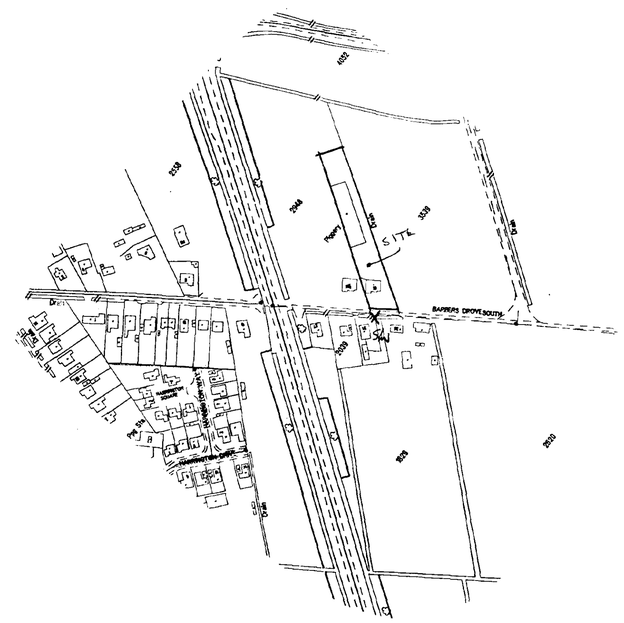
All doors, windows and any loft hatches to be effectively sealed and draught proofed.

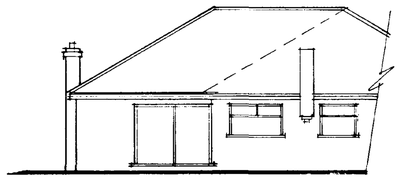
Demolish part of building as necessary to make way for proposed new extension. Existing Sun Lounge patio door to remain in original position. Remove existing chimney and chimney breast where shown.

Remove existing Lounge window and reduce width of opening with materials to match existing and provide and install new 1.8m wide window

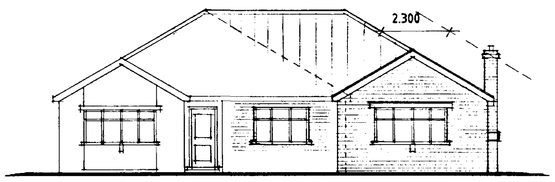
To wall between Lounge and Dining Room form opening with I.G. L1/S75 lintel over to suit French doors positioned centrally within dining room.

Fireplace in new Lounge to be positioned centrally.

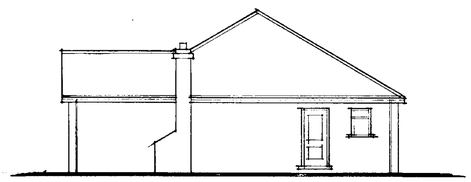

4035
3539
3548
Poppy
SITE
3539
BARBERS DROVE SOUTH
3539
3539
Drain
Path
Pond
Greenhouse
Shed
Pond
Greenhouse
Shed
Greenhouse
Shed
Greenhouse
Shed



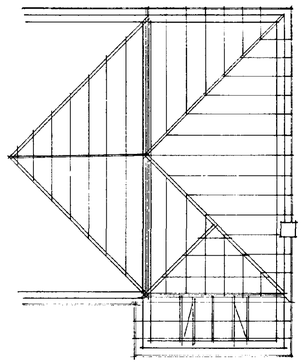
PROPOSED REAR ELEVATION



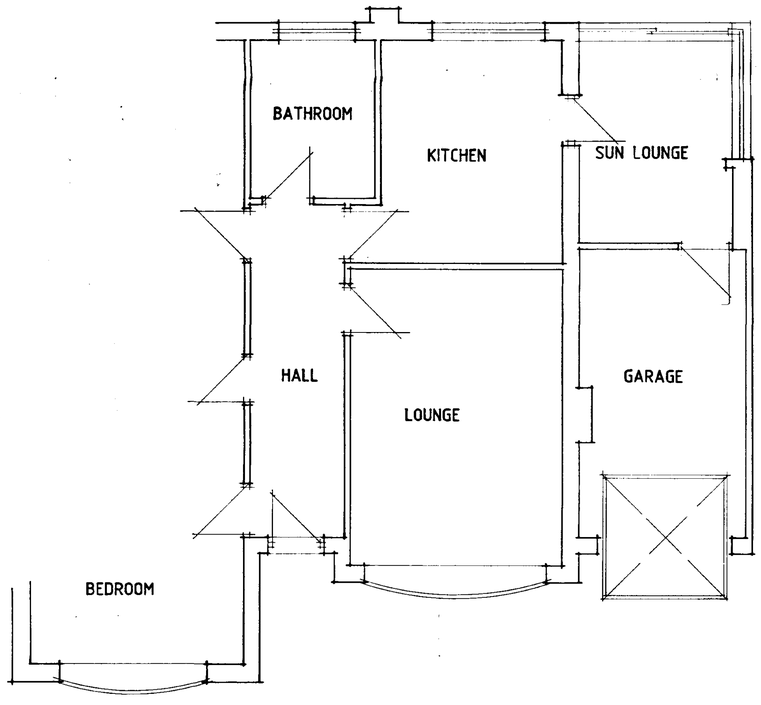
PROPOSED FRONT ELEVATION



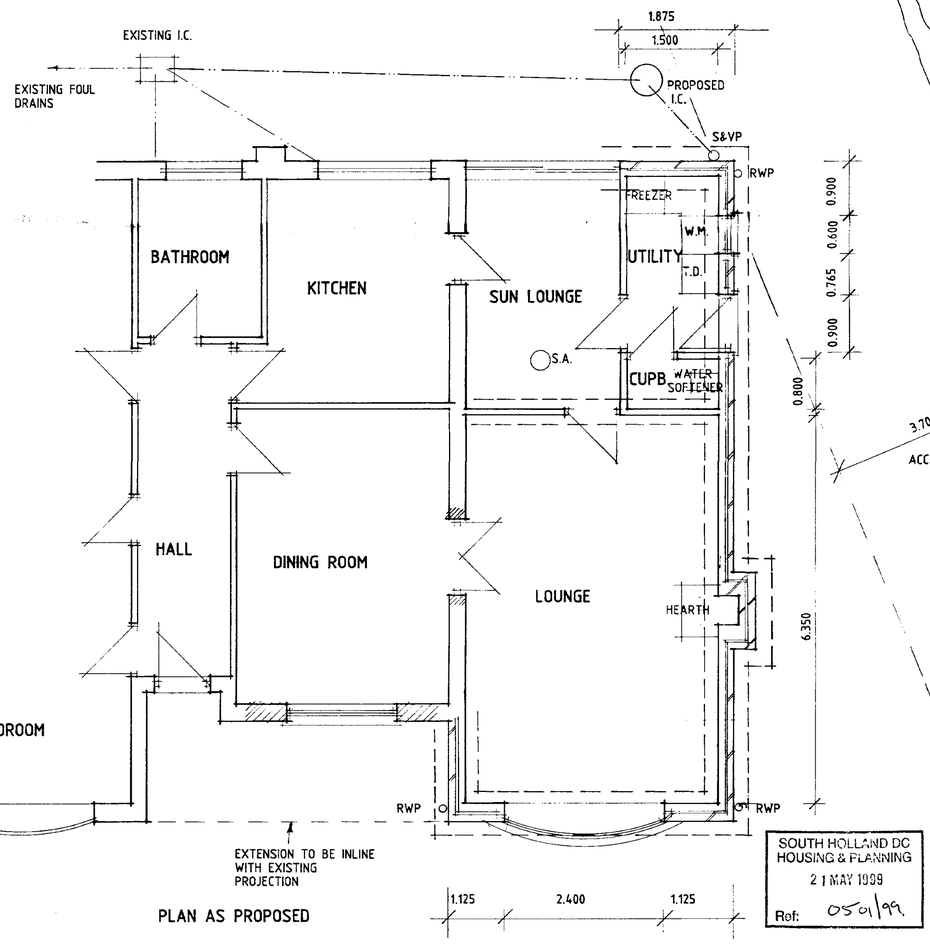
PROPOSED SIDE ELEVATION



ROOF PLAN



PLAN AS EXISTING



PLAN AS PROPOSED

SOUTH HOLLAND DC
HOUSING & PLANNING
21 MAY 1999
Ref: 0501/99

DETERMINED PLAN

DESIGN Status
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED EXTENSION TO BUNGALOW AT 10 BARBERS DROVE SOUTH, CROWLAND FOR

MR. S. GILBY.

PLANS / ELEVATIONS

1:50 1:100	772045/1
MARCH-99	B.GILHAM.

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