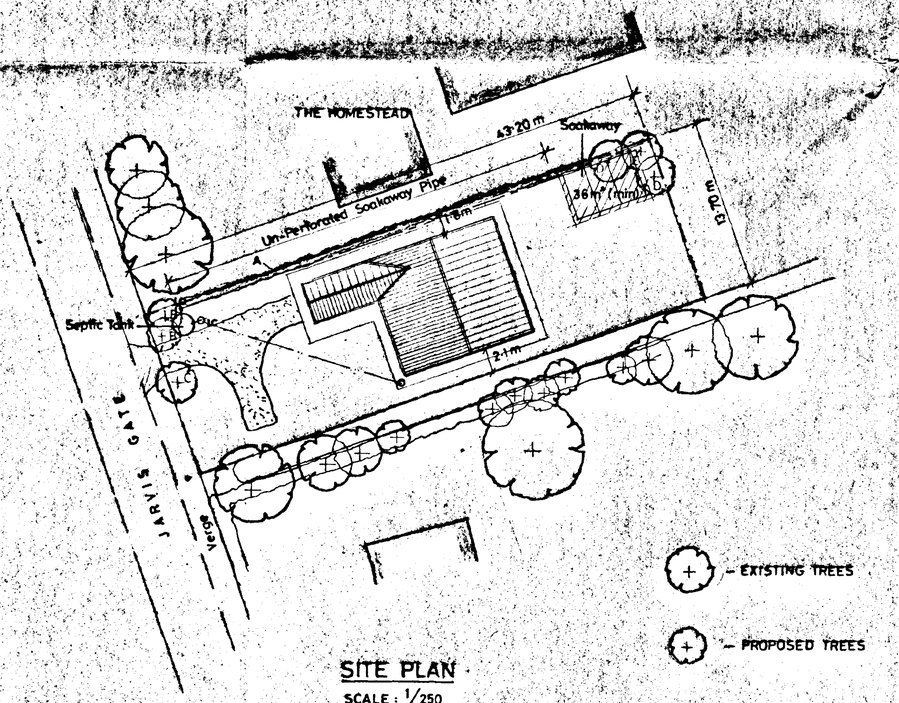
SEPTIC TANK
Connect foul water drains to 800 gallon capacity 'Klargester' type septic tank constructed in accord with LA requirements. The sub-irrigational drainage system to the septic tank is to be determined by percolation test in accord with the provisions of clause 15.3.2. of BS:6297, 1983. The applicant is responsible for carrying out the tests and the minimum requirement is 30 metres of sub-irrigational drainage or such length as may be determined by the test, whichever is the greater. The Council recommend that septic tanks, cesspools and settlement tanks be sited at a minimum distance of 12 metres (40 feet) from dwellings. Applicants are further advised that during times of inclement weather, the ground water level rises accordingly. It is essential that drainage falls to the septic tank are kept to the minimum, say 1 in 70, and the tank particularly the bottle type, is modified by reducing its neck length by cutting to ensure that both inlet and outlet are maintained above ground water level. Applicants are reminded that the consent of National Rivers Authority must be sought under the provisions of Schedule 12 of the Water Act 1989 for permission to discharge sewage effluent into the land. National Rivers Authority do not permit septic tank soakaway systems to be situated within 10 metres of any watercourse or to discharge effluent directly or indirectly into an aquifer.
SHOULD THE RESULTS OF THE PERCOLATION TEST PROVE TO BE UNSATISFACTORY FOR SEPTIC TANK DRAINAGE DUE TO IMPERVIOUS SOIL CONDITIONS SUCH AS CLAY, THEN A CESSPOOL OF 18,000 LITRES. (4000 GALLONS) CAPACITY, OR MINI-PACKAGED TREATMENT PLANT MUST BE USED.

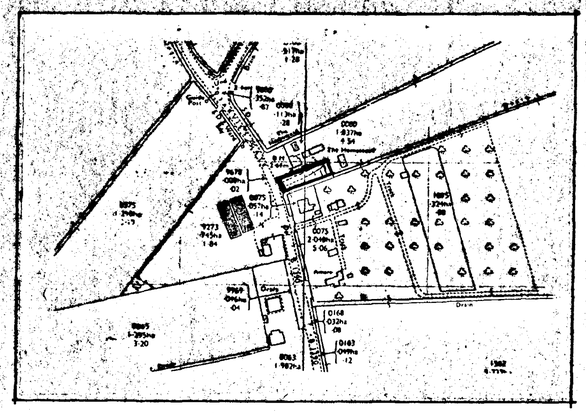


SITE PLAN
SCALE : 1/250

N

– EXISTING TREES

– PROPOSED TREES



LOCATION PLAN
SCALE : 1/2500

TREE PLANTING SCHEDULE

A. GREEN BEECH HEDGE (FAGUS SYLVATICA)
B. SILVER BIRCH (BETULA PENDULA)-HALF STANDARD
C. CRIMSON KING MAPLE (ACER PLATANOIDES)-HALF STANDARD
D. RED HAWTHORN (CRATEAGUS PAULS SCARLET)-HALF STANDARD
E. WHITEBEAM (SORBUS ARIA LUTESCENS)-HALF STANDARD

DO NOT SCALE FROM THIS DRAWING
This drawing is copyright and may not be altered, traced, photographed or used for any purpose other than that for which it is issued.
The General Contractor is to check all dimensions on site and report discrepancies to the Architect.
All details shown on this drawing forbidding dimensions are based upon typical site conditions related to the area. No responsibility can be accepted for abnormal conditions which may be discovered during construction unless reported to the Architect so that design amendments may be considered. Site soil surveys are recommended in respect of foundations to establish specific site conditions before foundation work is undertaken

DETERMINED PLAN
17 MAR 1997
Ref: 97/191

C. 8.9.97 "Hands" the Bungalow
B. 29.6.96 B.Regs Details
A. Re-Position Bungalow - Planning

G. R. MERCHANT
I.ENG AMICE, FIWO,
ARCHITECTURAL, STRUCTURAL & LAND DRAINAGE CONSULTANT
TEL: HOLBEACH (01406) 490800

PROJECT:
BUNGALOW & GARAGE
JARVIS GATE
SUTTON ST JAMES

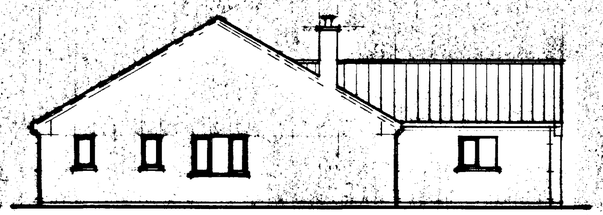
CLIENT:
C.J. BOLAND

SCALES: *AS INDICATED*
DATE: *SEPT 1995*
G.R. MERCHANT
DRAWING No.: *CJB-JG.1.C*
REVISIONS: A B C

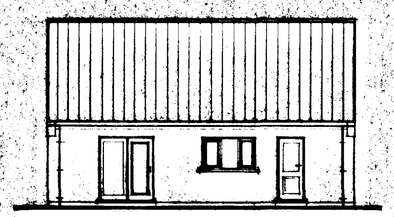
HANDED



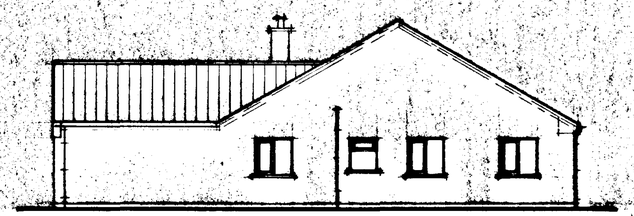
FRONT



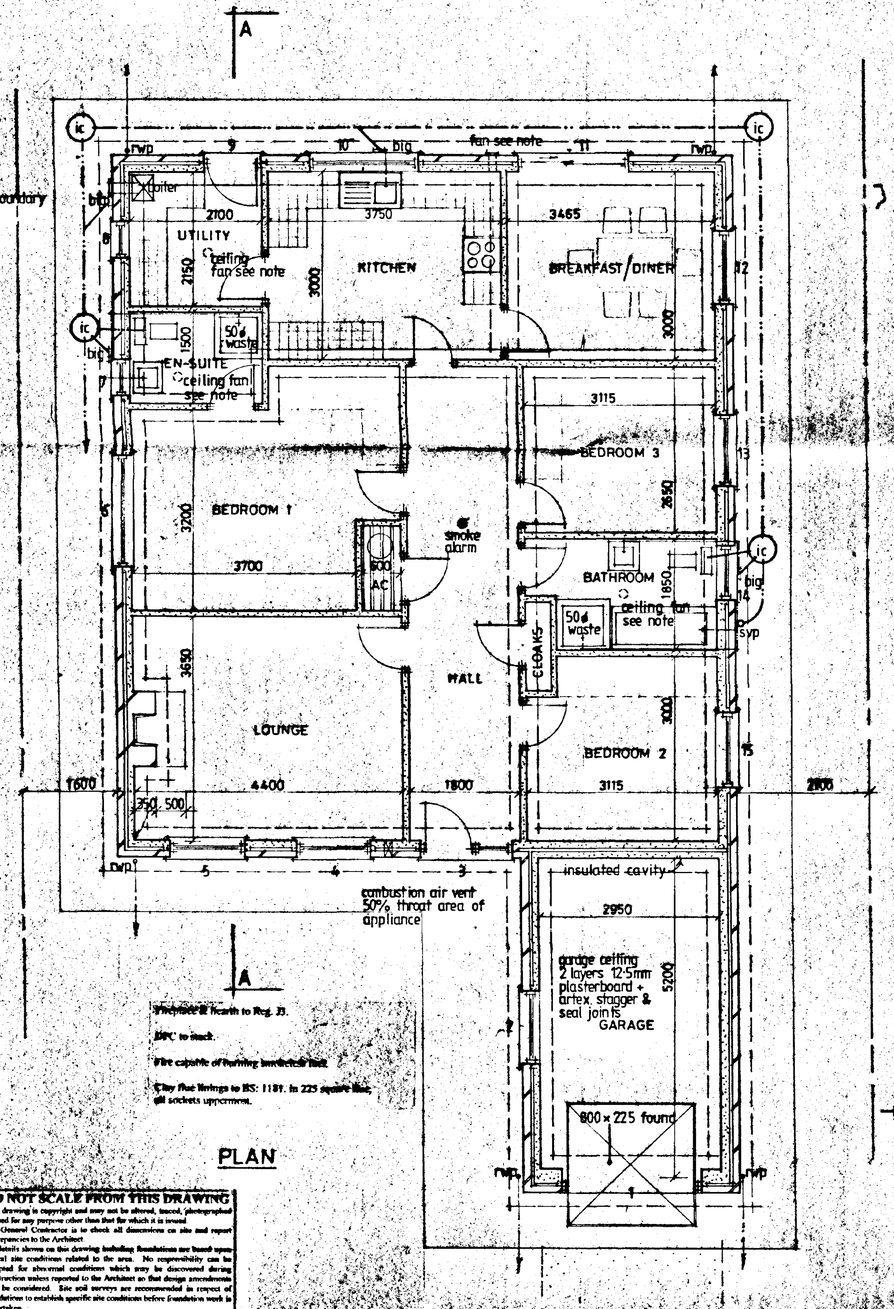
SIDE



REAR



SIDE



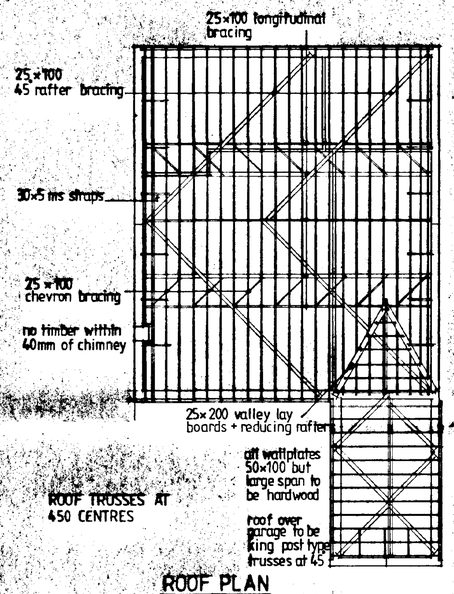
PLAN

Fireplace & hearth to Reg. 37.

DPC to stack.

Fire cajoole of building bonded to back.

Clay flue linings to BS: 1181. in 225 square flue, all sockets uppermost.



ROOF TRUSSES AT 450 CENTRES

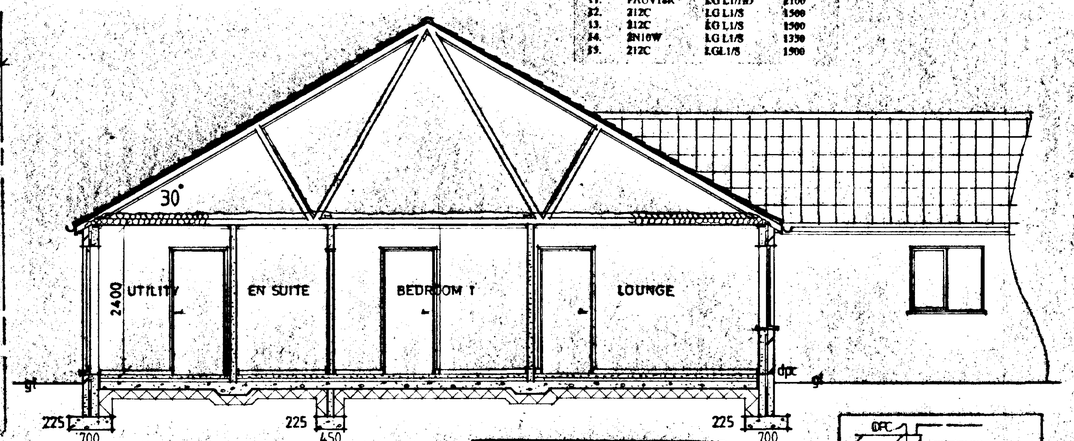
ROOF PLAN

ROOF DESIGNED & ERECTED TO BS:5268. PART 3. 1985.

ROOF TRUSS DESIGN & CERTIFICATE TO BE SUPPLIED PRIOR TO ERECTION ON SITE.

DOOR, WINDOW & LINTEL SCHEDULE

POS.	REF.	LINTEL	LENGTH
1.	UF7070NS	LG L1/S	2700
2.	210C	LG L1/HD	1900
3.	PE150	LG L1/HD	1800
4.	213C	LG L1/HD	1500
5.	213C -	LG L1/HD	1500
6.	212CC	LG L1/S	2100
7.	210C	LG L1/S	1050
8.	410C	LG L1/S	1050
9.	9NS	LG L1/HD	1200
10.	310CC	LG L1/HD	2100
11.	PAUV18R	LG L1/HD	2100
12.	212C	LG L1/S	1500
13.	212C	LG L1/S	1500
14.	2N10W	LG L1/S	1350
15.	212C	LG L1/S	1500



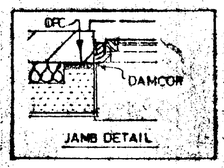
SECTION A-A

ELMHURST ENERGY SYSTEMS LTD

SAP ENERGY EFFICIENCY RATING

86

CERTIFICATE NO: 20958



ABOVE GROUND DRAINAGE
Hand basin waste to be 32mm dia, we 110mm dia PVC. Bath and sink wastes 40mm dia, use polypipe push fit pipework, all traps to be 75mm deep seal, all pipework etc to be accessible throughout their runs for cleaning repair and replacement. Connect bath, basin and wc wastes to 110mm dia stack. Sink to discharge to back inlet gully with pull out stopper for rodding. Soil and vent stack to be carried 900mm above window heads and fitted with patent ventilating terminal.

UNDERGROUND DRAINAGE
110mm UPVC pipe to fall 1:40 with 100mm pea-gravel bed and surround. Inspection chambers to be 450mm dia preformed plastics installed to manufacturers instructions complete with cover and frame. 450mm dia inspection chambers not to exceed 1m below ground level. Back inlet gullies to be of the rodddable type. Drain runs with less than 300mm ground cover to have paving slab protection over trench on top of pea-gravel, pour where concrete path cuts over pipe runs, where drains pass under driveways protect in a similar manner. Where drains pass through cavity walls support over flush lintel with precast concrete lintel and provide 50mm space all round the pipe, mask opening both sides with rigid sheet material to prevent entry of fill or vermin.(Reg H1-A14. Diagram A1)

RAINWATER GOODS
PVC gutters 115mm be sink 65mm dia down pipes to match including all bends outlets, clips, brackets, connectors etc and connect to underground drain to soakaway.

SOAKAWAYS
To be a minimum 5.0 metres from any building and to be 1 cu.m. rubble filled with inlet pipe discharging to centre of soakaway.

PLASTERWORK
Walls to be plastered and finished to receive with skim finish a total of 13mm thick including render-and-float soffits.

SKIRTING AND ARCHITRAVES
Timber mouldings, skirting and architraves to be standard section or as otherwise directed.

HOT WATER STORAGE
Provide systems and installation as approved by British Board of Agrement. System to be vented and insulated in accordance with BS:5615, 1985. Hot water cylinder to be fitted with 50mm polystyrene insulation.

Provide thermostatic radiator valves to control output from heating system.

Pipes in roof void which do not help to heat building to be insulated to BS:5422, 1977.

ROOF CONSTRUCTION
Roofs to be constructed in accordance with and to the sizes shown on the drawings. All timbers to be G.S.grade softwood properly seasoned and to an acceptable moisture content for preventing shrinkage after installation. Provide vapour barrier where traditional roof. Where trussed rafters adopted they shall be of an approved manufacturer and designed, assembled, erected and braced in accordance with B.S. 5268, Part 3, 1985.

ROOF COVERINGS
Concrete interlocking tiles, to be fixed in accordance with the manufacturers instructions and BS 5534 Pt 1, 1978. Battens 38 x 25 at gauge centres on underside Type 1F sarking felt with minimum 150mm laps.

LATERAL RESTRAINT STRAPPING
Provide and fix 30mm x 5mm pierced galvanised mild steel straps at 1.8 metre centres to anchor roof to blockwork walling, ceiling joists and rafter levels where they run parallel to walls. Solid strut below the straps and tight pack against the walls.

INSULATION
Lay 200mm FIBREGLASS, 300mm Isowool joists and 100mm over joists, maintain minimum 50mm gap between top of insulation and sarking felt where insulation runs up to roof slope.

ROOF VENTILATION
10mm plywood with 12mm continuous gap on soffit board. Provide fine mesh flyproof screen to ventilation gap.

FASCIAS
To be sawn on 25mm deviated thickness pinboard softwood with rebate for soffit. Frame out in 38 x 25 S/W for soffit support.

SOFFITS
Provide and fix 12.5mm GYPROC Wallboard to all new ceilings. Neg all perimeters and board joints prior to fixing plasterboard to fully support finish. Fix GYPROC coving and ARTEX finish to ceiling.

DAMP PROOF COURSES
Provide embossed heavy duty polythene dpc material at 150mm minimum above ground level in all leafs of cavity walling, piers and columns. Dpcs to be linked with dpm. Also provide vertical and horizontal dpcs around openings for windows and doors in cavity walls and similar material as cavity trays over lintels.

FOUNDATIONS
Generally to be in mass concrete 1/3 of strip 700mm wide x 225mm thick under cavity walling, 450mm x 225mm under partition walls. Thicken floor slab to 250 x 450 wide below non-loadbearing partition walls. Excavations shall be down to a firm consistent, loadbearing stratum to the approval of the Local Authority Building Control Officer.

LINTELS
To be I.G. L1/HD in cavity wall locations generally, unless noted otherwise. Internal door openings in block walls to be I.G. Box 100 lintels. All lintels to have minimum 150mm end bearing and installed strictly in accordance with the makers instructions. Faces of all lintels to be covered with at least 15mm of lightweight plaster.

WINDOWS AND DOORS
Windows and doors to be ab BOULTON & PAUL in treated softwood standard metric joinery, unless otherwise indicated. All windows and doors to be double glazed (12mm sealed unit type). Patio doors to be purpose made and fitted with a night vent giving 10,000 sq mm of ventilation opening. All other windows to be fitted with adjustable ventilators to each or frame fixed to give minimum 8,0004,000 sq mm ventilation, depending on location. Windows and doors to be fully draughtproofed.

JOINERY
Doors, frames, linings, skirtings, architraves, window board and timber mouldings etc to be of standard manufacture and be as BOULTON & PAUL or equal approved.

HOT WATER AND HEATING ETC
Install hot water and heating pipework to provide hot and cold water supplied to all new appliances in the building and provide space heating to all new areas. Radiator positions to be as directed, all radiators to be fitted with thermostatic valves. Heating controls Honeywell room stat, Honeywell cylinder stat and Honeywell programmer - S Plan system.

ELECTRICAL INSTALLATION
All work to be carried out in accordance with the latest I.E.E. Regulations. Extend electrical circuits from consumer unit in ring mains and install lighting and power points in position as directed.

WALL TILING
Provide and fix to form Splashbacks to walls and window cill, Kitchen window cill and over work tops, ceramic wall tiles with waterproof fix and grout. Tiles to be selected and areas to be tiled to be determined later.

DECORATION
Allow for decorating all new surfaces, internal and proper preparation of all surfaces in accordance with the coating manufacturers specification.

CONCRETE FLOORS
65mm mortar screed reinforced with chicken wire on 500 gauge polythene separating layer on 50mm Jablite (or similar) polystyrene insulation on 100mm thick ST4 concrete sub-floor on 1200 gauge DPM lapped with DPC in walls. 150mm thin hardcore, blinded and compacted. Excavate oversite to 100mm deep to remove topsoil of vegetation.

WALLS
Cavity work to be 300mm overall width comprising 100mm clay facing bricks, 65mm cavity filled with CROWN DRITHERM fibreglass insulation batts, 100mm load bearing "Tarmac TopBlock" insulation blocks. Internal partitions to be to 100mm blockwork walling. Wall ties in cavity walling to be stout galvanised wire butterfly type at 900mm centres horizontally and 450mm centres vertically every alternate tie course to be staggered 450mm. At openings provide ties at 225mm centres vertically within 225mm of the openings.

SUB STRUCTURE WALLS
To be in TYPE A dense aggregate concrete blockwork up to ground level. Cavity to be filled with lean mix concrete.

VENTILATION
Natural ventilation area of windows to be not less than 1/20 of room floor area. All habitable room windows to have 8000mm squared night vents, kitchen, utility, bathroom and w.c. windows to have 4000mm squared night vents. Extractor fans to be provided in kitchen (min 60 litres/sec), bathrooms and wc (min 15 litres/sec) and utility (min 30 litres/sec)

BOILER
New boiler to be gas fired, wall mounted, balanced flue type of approximately 18kw output rating. Flue terminal to be fitted with suitable rope guard.

FLASHINGS
All flashings, soakers etc to be in COPPER 4 oz/sq ft lead properly cut, dressed and fixed.

PROTECTED GLAZING AREAS
Provide toughened glass to BS:6206, 1981 to following areas. To all windows within 800 of finished floor level. To all door glazing within 1500 of finished floor level. This applies to side screens also within 300 of door. Protected glazing to be permanently marked with BS kite mark.

SMOKE ALARMS
Provide mains operated self-contained smoke alarm that conforms to BS:5446, Part 1. Provide at least one on each floor depending on layout and site in accordance with approved document, Part 1. More than one smoke alarm should be inter-connected.
NOTE: Smoke alarms to be permanently wired to a separate fused circuit at the distribution board.
All work in accordance with approved manufacturers instructions. (see position on drawing).

RECEIVED
17 MAR 1997
Ref: 0275/97.

B 3.9.97 Garden Studio
A 25.8.97. B Rear Elevation

G. R. MERCHANT
I.ENG AMICE, FIWO,
ARCHITECTURAL, STRUCTURAL & LAND DRAINAGE CONSULTANT
TEL: HOLBEACH (01406) 490800

PROJECT:
BUNGALOW & GARAGE
JARVIS GATE
SUTTON ST JAMES

CLIENT:
C.J. BOLAND

SCALES: *1/50 1/100*

DATE: *MARCH 1996*

G.R.MERCHANT

DRAWING No.: *CJB-JG.2 B.*

REVISIONS:
A B

DO NOT SCALE FROM THIS DRAWING
This drawing is copyright and may not be altered, traced, photographed or used for any purpose other than that for which it is issued.
The Ground Contractor is to check all dimensions on site and report discrepancies to the Architect
All details shown on this drawing including foundations are based upon typical site conditions related to the area. No responsibility can be accepted for abnormal conditions which may be discovered during construction unless reported to the Architect so that design amendments may be considered. Site soil surveys are recommended in respect of foundations to establish specific site conditions before foundation work is undertaken.

SUMMIT

0046-1194T