Part 1 For Completion by LPA

LPA Reference No.	Allocation in Local Plan YES/NO	Regeneration Site YES/NO	Flood Zone (PPG25) 1 2 3* (Please circle) *State whether Developed or Undeveloped	Sequential Test supplied YES/NO	Outline/Full Application

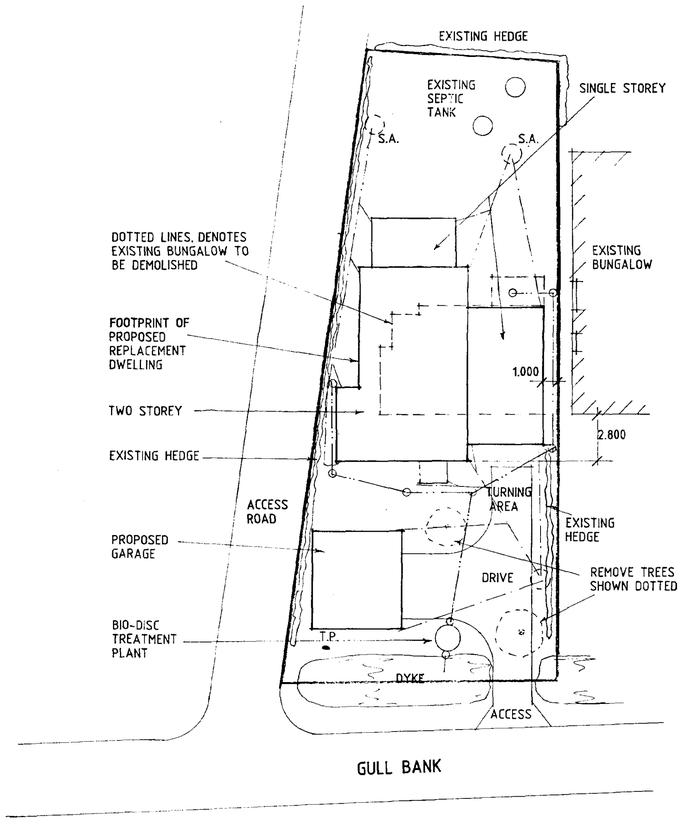
Part 2 For Completion by Applicant

PPG 25 Ref.	How does this comply with Planning Policy Guidance 25	Environment Agency use only
F1	This is a Flood Risk Assessment study for... GULL BANK, WHAPLODE DROVE	
F2	Approximate size of Development:..0.07..Hectares Type of Development:...1...NO.....	
F3.1	Please supply a location plan at an appropriate scale that includes geographical features, street names and identifies all watercourses or other bodies of water in the vicinity. This should include drainage outfalls[2] Is any part of the development within 9 meters measured horizontally from the foot of any bank of the landward side or where there is no bank with 9 meters measured horizontally from the top edge of the batter enclosing the river: YES/(NO)	
F3.2	A plan of the site showing levels related to Ordnance Datum, both current and following development[2] N/A	
F3.3	A detailed indication, if appropriate, of flood alleviation measures already in place, of their state of maintenance and their performance[2 3 ▲] N/A	
F3.4	Does this site lie in the: Indicative Fluvial Flood Plain: (YES)/NO[3] Indicative Tidal Flood Plain: YES/(NO)[3]	
F3.5	Is there a History of flooding on site: YES/(NO)[3] If yes, please supply with details of Flooding History e.g. Date/Depth/Duration of flood	
F3.6	Are you aware of any structures that might effect flooding, such as Bridges, Embankments, etc: YES/(NO) If yes, please provide plan	
F3.7	Is the site currently protected: 100 Years Fluvial (0.1%) (YES)/NO[3] 200 Years Tidal (0.5%) YES/(NO)[3] Will the development be protected and will mitigation be maintained to the same standard for the Design Life of Development (YES)/NO	
F3.8	Height of proposed floor level above general surrounding land..150 mm.. Height of finished floor level above potential flood level on site (1 in 100)..150 mm..[2 3 ▲]	
F3.9	How soon would flood water affect your site: Duration:.....Hours.....Minutes N/A Is there a risk to life: YES/(NO) Is there a risk to the interior of buildings: YES/(NO) Is there a risk to external areas, e.g. garden, road: YES/(NO)	
F3.10	In an extreme rainfall event would the development over load the capacity of the existing sewers: YES/NO[2 ▲] N/A	
F3.11	Will the Development give an overall: Reduction of run off: (YES)/NO▲ Flood Plain Loss: (YES)/NO▲ Flood Plain Gain: YES/(NO)▲	
F3.12	General impact on Flood Risk elsewhere: INCREASED (EQUAL) DECREASED (Please circle)▲	
F3.13	Is there an Impact on the Natural Water Course or Coast Line: YES/NO▲ N/A	
F3.14	Have you considered the effect of Climate Change: (YES)/NO▲	
F3.15	How would your development be affected in a more extreme flood than currently defended to?▲ EXTRA SOAKAWAY CAPACITY	

Part 3 For Completion By E.A.	Approved		Advice		Conditions		Objection		E.A. Comments:

[1] Attach site location plan and National Grid reference
[2] May be necessary depending upon risk
[3] Check Indicative Floodplain Maps www.environment-agency.gov.uk Contact Environment Agency on Tel: 01522 513100
▲ If Development over 0.5 Hectares – Detailed information required

Planning & Development
23 DEC 2002
Ref
1398/02



SITE PLAN

Demolish existing bungalow to make way for proposed house along with detached garage – see drawings SD02-063/3 and SD02-063/4.

External Materials
Red facing bricks
Grey concrete tiles

Access
Form new access in position shown, minimum width to be 2.5m and to be constructed all to Lincolnshire County Council requirements.

Drive
Washed gravel on 100mm well blinded hardcore with kerb edging.

Turning Area
Form turning area as shown all in accordance with Lincolnshire County Council requirements.

Dyke
To dyke along site frontage provide suitable piping at position of new access all to South Holland Internal Drainage Board and Lincolnshire County Council requirements.

Landscaping
Existing hedging to site boundaries as shown to remain.

Foul Drainage
Connect foul drains to Bio-disc treatment plant in position shown with outfall to existing dyke. Existing septic tank to be emptied and filled in.

External Lighting Fixed to the Building
External lights include lights in porches but not lights in garages and carports.

External lights should be made to enable effective control and/or the use of efficient lamps as follows:

a) Automatically extinguish when there is enough daylight and when no required at night.

b) Have sockets that can only be used with lamps having an efficiency greater than 40 lumens per circuit watt.

Oil Tank
To be sited a minimum 1800mm from any building and a minimum 760mm from any boundary.

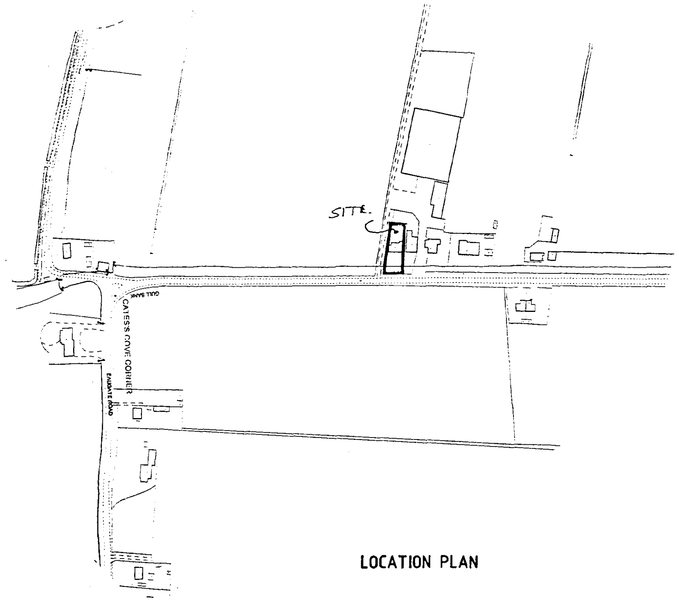
Sewage Treatment Plant
A suitable notice in regard to the package treatment work should be provided within the property, it is suggested that this is contained within a property logbook. An example of the wording could be, 'The foul drainage from this property discharges to a package treatment works. Maintenance is required (insert frequency) and should be carried out by the owner in accordance with manufacturer's instructions. The owner is legally responsible to ensure that the system does not cause pollution, a health hazard or a nuisance'.

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.

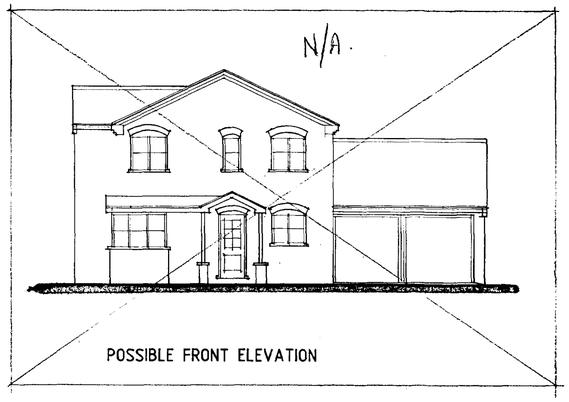
Surface Water Drainage
To be proprietary 110mm diameter p.v.c. pipes flexible joined to fall 1:70 bedded in 100mm pea gravel. Pipes to discharge into 1200mm diameter soakaways sited 5000mm away from buildings.

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.



LOCATION PLAN



POSSIBLE FRONT ELEVATION

THIS DRG. TO BE READ IN CONJUNCTION WITH SD02-063/3, SD02-063/4

SHDC
Planning & Development
23 DEC 2002
1398/ov
Ref

B - DETAILS ADDED - 17.12.02
A - GARAGE/DRIVE ADDED - 11.12.02

DESIGN Status
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT DWELLING AT FIRST BUNGALOW, GULL BANK, WHAPLODE DROVE FOR

MR. & MRS. W.F.M. NAIKEN.

SITE PLAN

1:200 1:50	SD02-063/1
NOV-02	B.GILHAM.

DETERMINED PLAN

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

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.

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.

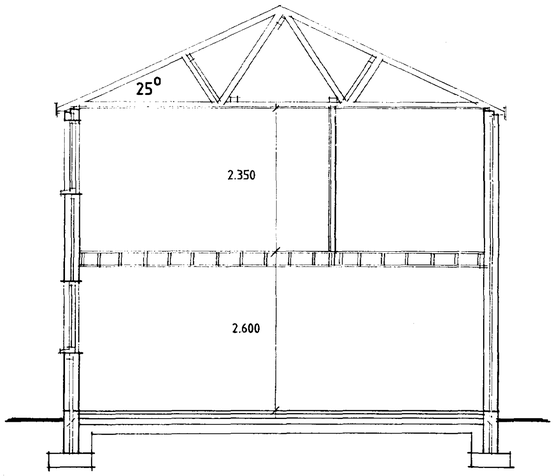
Heating System
Provide room thermostat or thermostatic radiator valves or similar approved to control the output from the heating system.

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

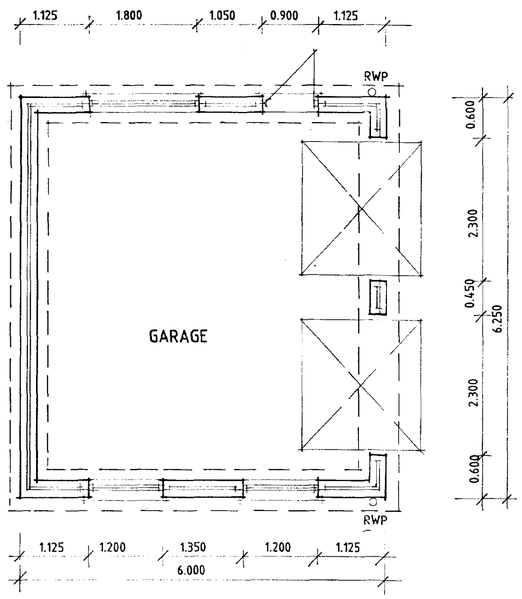
Safety Glazing
Provide safety glass to BS6206 to all windows to a minimum height of 800mm above floor level plus doors to a minimum height of 1500mm above floor level. Side screens to be same as doors if within 300mm of doors.

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.



HOUSE SECTION



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.

Garage Floor Construction
100mm concrete oversite on 1200 gauge polythene d.p.m. on minimum 150mm, maximum 600mm well blinded and compacted hardcore. If garage is integral to house finished floor level to be 100mm below that of house. Wall d.p.c. to lap floor d.p.m. by a minimum of 50mm.

Ground Floor Construction
65mm sand/cement screed on proprietary 100 mm thick Jablite floor insulation or 60mm 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.

Garage Cavity Walls
275mm cavity walls of 100mm facing bricks, 75mm cavity and 100mm internal block skin. Insulation to inner wall to achieve 0.25 u/value

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 LI/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 chimneybreast 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 LI/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.

Provide a firm level approach to front entrance of minimum width 900mm. Gradient of approach to be no steeper than 1:20. At entrance to building threshold to be maximum 15mm high.

External access door that serves as access to ground floor WC to have a minimum clear opening width of 775mm.

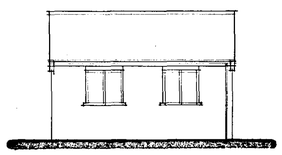
Ensure minimum 900mm corridor width, access to ground floor WC with no obstructions (radiators, etc.) to corridor area adjacent doors

Sockets, light switches, TV points, doorbells to habitable rooms to be positioned between 450mm and 1200mm above floor level.

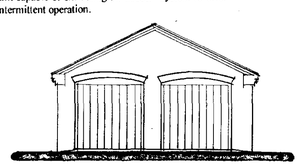
Provide area within main driveway of hard surfacing (block paving, tarmac or similar) of adequate size to enable wheelchair access from parked vehicle direct to main access of dwelling. Footpath minimum 900mm wide to be directly linked to hard surfacing driveway.

Minimum width of corridors and passageways for a range of doorway widths

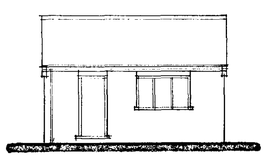
Doorway clear opening width (mm)	Corridor/Passageway width(mm)
750 or wider	900 (when approached head-on)
750	1200 (When approached not head-on)
775	1050 (when approached not head-on)
800	900 (when approached not head-on)



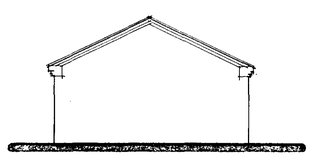
FRONT



SIDE



REAR



SIDE

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.

Inner Rooms

To have means of escape windows with openings of at least 450mm wide x 450mm high and a minimum area of 0.33m²

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:

Number of Rooms	Recommended min number of locations
1-3	1
4-6	2
7-9	3
10-12	4

Note – Hall stairs and landing count as one room (but may contain more than one fitting).

Excludes garages, lofts and outhouses.

Wall Construction
275mm cavity walls to consist of:
100mm face brickwork (see site plan for details), 75mm cavity to be filled with Crown Dritherm full fill insulation in accordance with BBA Certificate No. 86/1678 or similar approved, 100mm internal skin of Celcon standard blocks or similar approved to give 0.35 U/value. Cavity walls tied together using galvanised iron or plastic twist ties 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.

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.

Private stairs
Stairwell formed by timber trimmers and load bearing walls (see plan). Provide timber balustrading to open side of stairs 900mm above pitch line and 1000mm high to stairwell opening to act as guarding and to be capable of resisting a horizontal force of 0.36 KN/m. Balustrading to be vertical type, not horizontal or ranch style. No parts of stairs to have any gaps greater than 99mm. Provide timber handrail to top of balustrading or independently 900mm above pitch line. Ensure minimum headroom above pitch line is 2000mm. Total rise: See plan. Maximum rise: 220mm. Minimum going: 220mm. Maximum pitch: 42°. Read in conjunction with Approved Document K.

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.

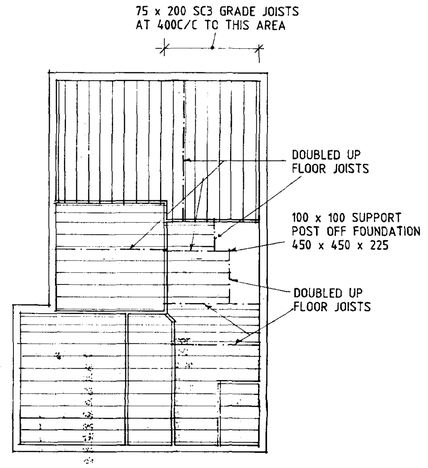
Soldier Coursing
Provide soldier course brickwork to all areas where shown on elevations.

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.

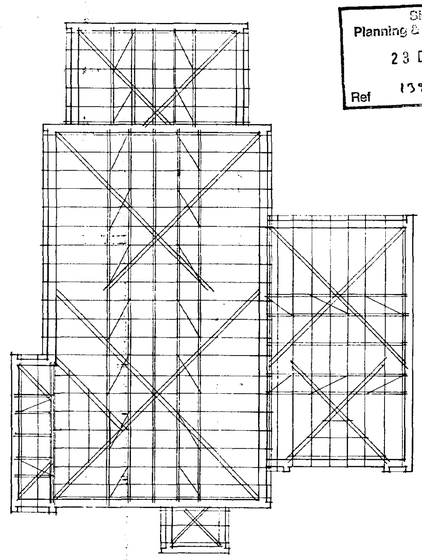
First Floor Walling
Provide 50 x 75mm timber vertical studs at 400mm c/c to be constructed of 50 x 75mm timber head and sole plates. Provide 12.5mm Gyproc plasterboard and skim finish to both sides. Provide to airspace proprietary acoustic insulation (optional). Timber stud partitions running parallel to joist direction to be built off 2 no. floor joists fixed together. Provide 1 no. joist either end of stud partition joist beam to fix flooring.

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.



FLOOR JOISTS TO BE
50 x 200 SC3 GRADE
AT 400 C/C

HOUSE FLOOR JOIST PLAN



HOUSE ROOF PLAN

First Floor Construction
19mm flooring grade moisture resistant decking on timber joists as stated on plan. To external walls joists to be supported on joist hangers (not built into wall). Provide 30mm x 5mm mild steel restraint straps to joists running parallel with wall securely fixed to walls and to span minimum 3 no. joists at maximum 1200mm c/c. At strap positions provide pack and noggin to joists. Solid strutting to be installed mid-span where span of joists between 2.5m and 4.5m. For spans in excess of 4.5m position of struts at 1/3rd span. Double up floor joists locally under bath feet and hot water cylinder where applicable. All doubled up joists to be bolted together at 600mm centres.

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 85%

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.

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

Header Tank Support
Water tank in roof space to be supported on bearers to spread the load to BS5268 Part 3 1985.

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

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

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

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

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.

Hot water cylinder to be minimum 115lt capacity.

Seal all openings and joints to perimeter walls.

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

First floor habitable rooms shall have means of escape windows with openings of at least 450mm wide x 450mm high and a minimum area of 0.33m²

SHDC
Planning & Development
23 DEC 2002
Ref 1398/02

A - MINOR ALTS/DETAILS ADDED - 18.12.02

Status
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT DWELLING AT FIRST BUNGALOW, GULL BANK, WHAPLODE DROVE FOR

MR. & MRS. W.F.M. NAIKEN.

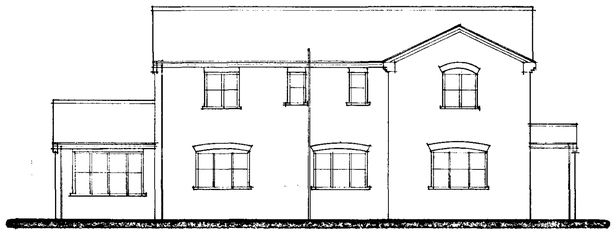
GARAGE

1:50 1:100	SD02-063/4
DEC-02	B.GILHAM.

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



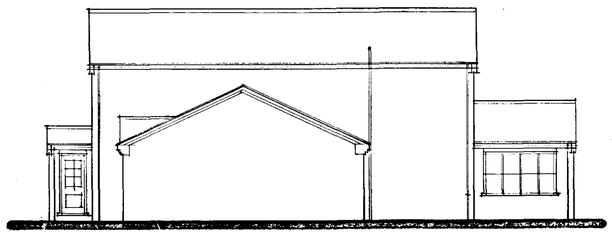
FRONT



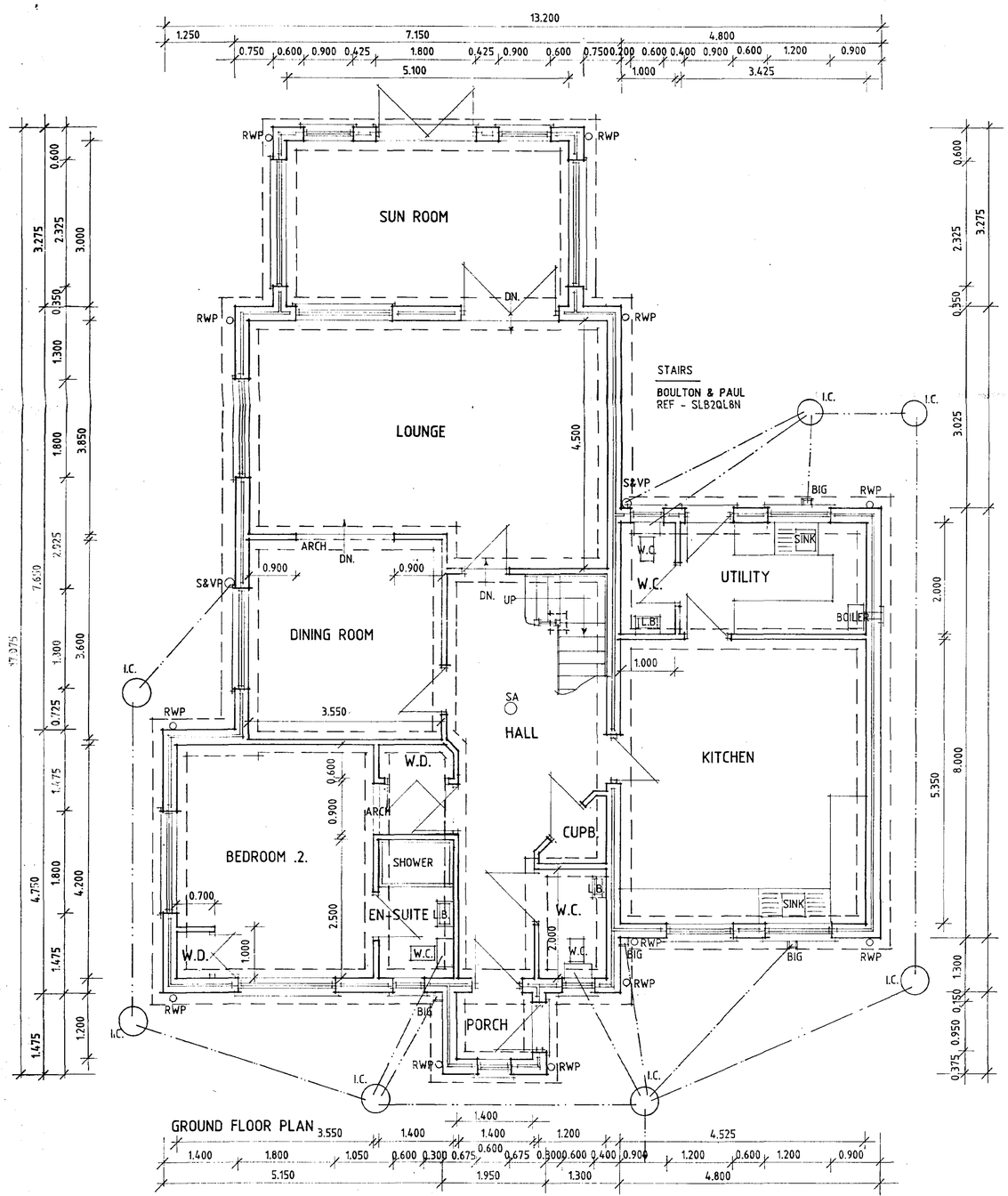
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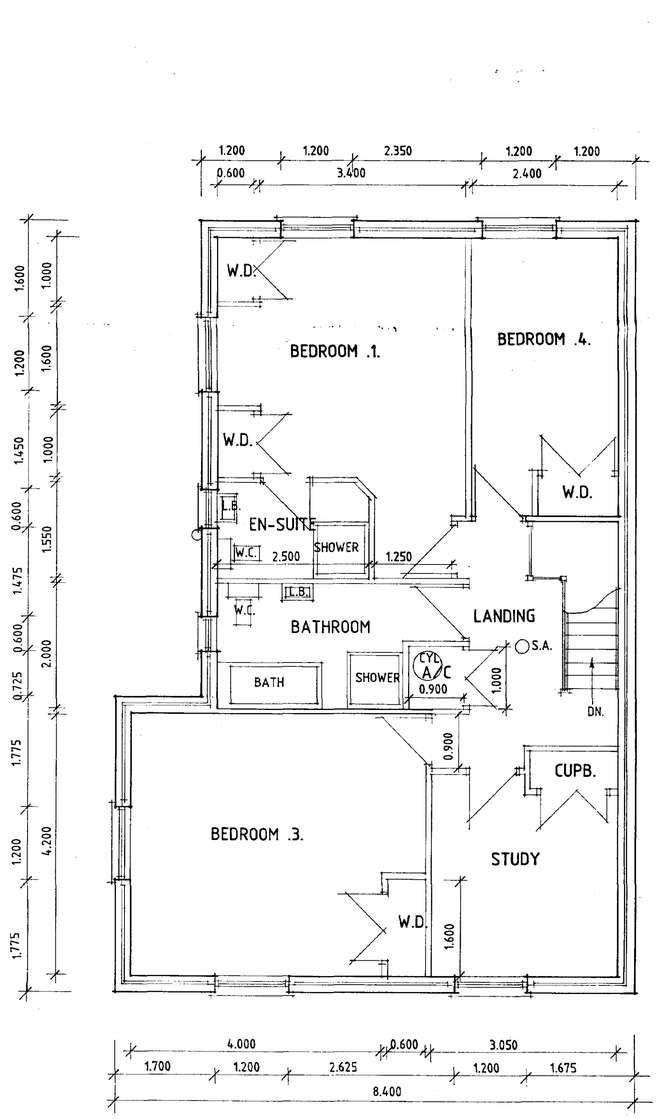


REAR



SIDE





FIRST FLOOR PLAN

SHDC
Planning & Development
23 DEC 2002
Ref 1398/02

A - MINOR ALTS/DETAILS ADDED - 17.12.02

Status
DESIGN
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT DWELLING AT FIRST BUNGALOW, GULL BANK, WHAPLODE DROVE FOR

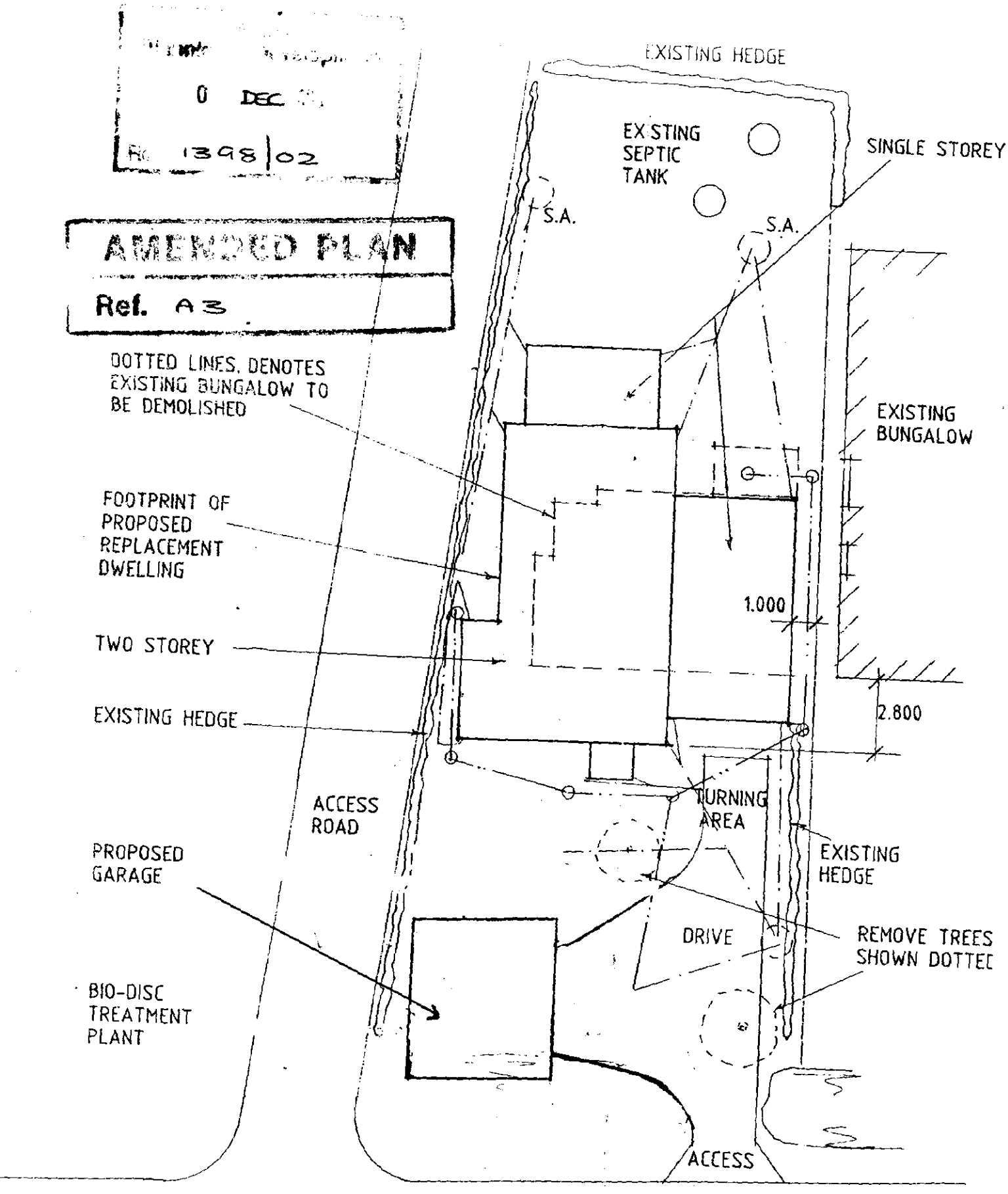
MR. & MRS. W.F.M. NAIKEN.

DETERMINED PLAN

1:50 1:100 | SD02-063/3

DEC-02 | B.GILHAM.

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


0 DEC
Re 1398/02
AMENDED PLAN
Ref. A3
EXISTING HEDGE
EXISTING SEPTIC TANK
SINGLE STOREY
S.A.
S.A.
DOTTED LINES. DENOTES EXISTING BUNGALOW TO BE DEMOLISHED
EXISTING BUNGALOW
FOOTPRINT OF PROPOSED REPLACEMENT DWELLING
1.000
TWO STOREY
2.800
EXISTING HEDGE
ACCESS ROAD
TURNING AREA
EXISTING HEDGE
PROPOSED GARAGE
DRIVE
REMOVE TREES SHOWN DOTTED
BIO-DISC TREATMENT PLANT
ACCESS
GULL BANK

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.

Bathroom/En-suite Ventilation
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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.

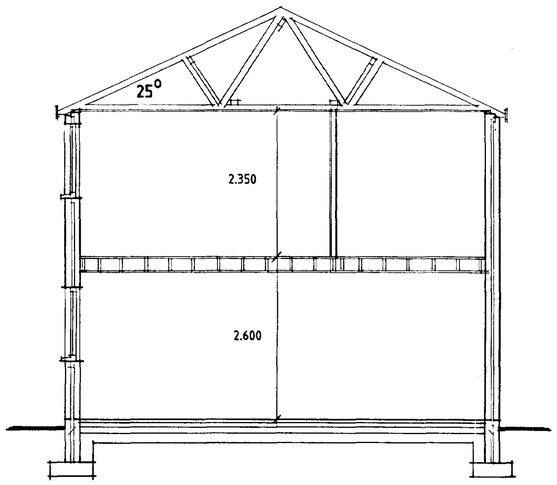
Heating System
Provide room thermostat or thermostatic radiator valves or similar approved to control the output from the heating system.

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

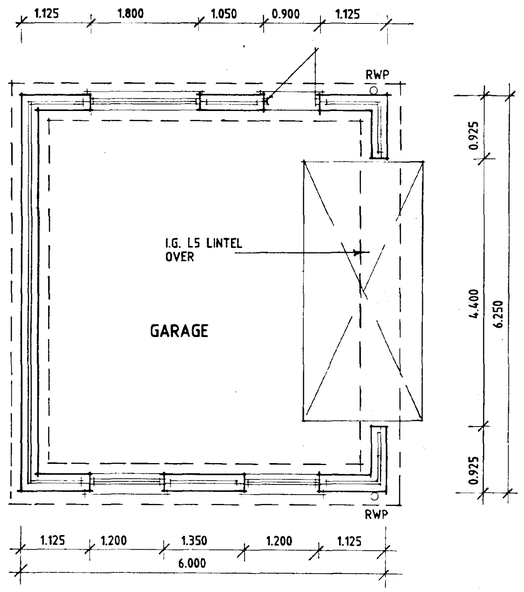
Safety Glazing
Provide safety glass to BS6206 to all windows to a minimum height of 800mm above floor level plus doors to a minimum height of 1500mm above floor level. Side screens to be same as doors if within 300mm of doors.

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.



HOUSE SECTION



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.

Garage Floor Construction
100mm concrete oversite on 1200 gauge polythene d.p.m. on minimum 150mm, maximum 600mm well blinded and compacted hardcore. If garage is integral to house finished floor level to be 100mm below that of house. Wall d.p.c. to lap floor d.p.m. by a minimum of 50mm.

Ground Floor Construction
65mm sand/cement screed on proprietary 100 mm thick Jablite floor insulation or 60mm 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.

Garage Cavity Walls
275mm cavity walls of 100mm facing bricks, 75mm cavity and 100mm internal block skin. Insulation to inner wall to achieve 0.25 u/value

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 chimneybreast 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.

Provide a firm level approach to front entrance of minimum width 900mm. Gradient of approach to be no steeper than 1:20. At entrance to building threshold to be maximum 15mm high.

External access door that serves as access to ground floor WC to have a minimum clear opening width of 775mm.

Ensure minimum 900mm corridor width, access to ground floor WC with no obstructions (radiators, etc.) to corridor area adjacent doors

Sockets, light switches, TV points, doorbells to habitable rooms to be positioned between 450mm and 1200mm above floor level.

Provide area within main driveway of hard surfacing (block paving, tarmac or similar) of adequate size to enable wheelchair access from parked vehicle direct to main access of dwelling. Footpath minimum 900mm wide to be directly linked to hard surfacing driveway.

Minimum width of corridors and passageways for a range of doorway widths

Doorway clear opening width (mm)	Corridor/Passageway width(mm)
750 or wider	900 (when approached head-on)
750	1200 (When approached not head-on)
775	1050 (when approached not head-on)
800	900 (when approached not head-on)

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.

Inner Rooms

To have means of escape windows with openings of at least 450mm wide x 450mm high and a minimum area of 0.33m²

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:

Number of Rooms	Recommended min number of locations
1-3	1
4-6	2
7-9	3
10-12	4

Note – Hall stairs and landing count as one room (but may contain more than one fitting).

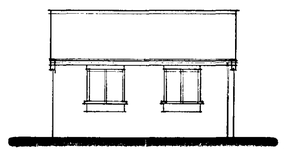
Excludes garages, lofts and outhouses.

Wall Construction
275mm cavity walls to consist of:
100mm face brickwork (see site plan for details), 75mm cavity to be filled with Crown Dritherm full fill insulation in accordance with BBA Certificate No. 86/1678 or similar approved, 100mm internal skin of Celcon standard blocks or similar approved to give 0.35 U/value. Cavity walls tied together using galvanised iron or plastic twist ties 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 TS0, 2001.

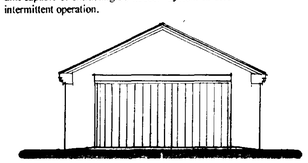
Habitable Room Trickle Ventilation
Provide proprietary trickle ventilators to head of windows giving a total opening area of not less than 8000mm²

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

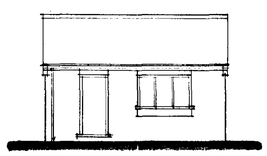
Utility Ventilation
Provide proprietary mechanical extract ventilation unit capable of extracting 30 lt/sec. System to offer intermittent operation.



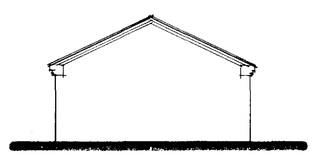
FRONT



SIDE



REAR



SIDE

Private Stairs
Stairwell formed by timber trimmers and load bearing walls (see plan). Provide timber balustrading to open side of stairs 900mm above pitch line and 1000mm high to stairwell opening to act as guarding and to be capable of resisting a horizontal force of 0.36 KN/m. Balustrading to be vertical type, not horizontal or ranch style. No parts of stairs to have any gaps greater than 99mm. Provide timber handrail to top of balustrading or independently 900mm above pitch line. Ensure minimum headroom above pitch line is 2000mm. Total rise: See plan. Maximum rise: 220mm. Minimum going: 220mm. Maximum pitch: 42°. Read in conjunction with Approved Document K.

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.

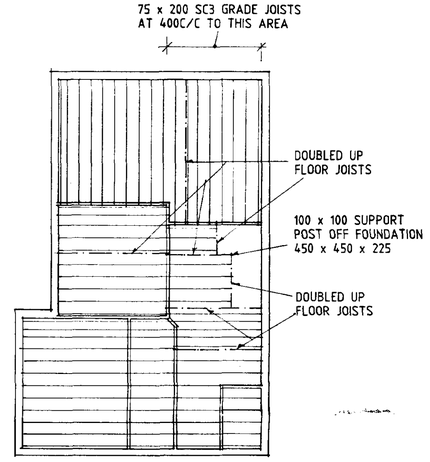
Soldier Coursing
Provide soldier course brickwork to all areas where shown on elevations.

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.

First Floor Walling
Provide 50 x 75mm timber vertical studs at 400mm c/c to be constructed of 50 x 75mm timber head and sole plates. Provide 12.5mm Gyproc plasterboard and skim finish to both sides. Provide to airspace proprietary acoustic insulation (optional). Timber stud partitions running parallel to joist direction to be built off 2 no. floor joists fixed together. Provide 1 no. joist either end of stud partition joist beam to fix flooring.

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.

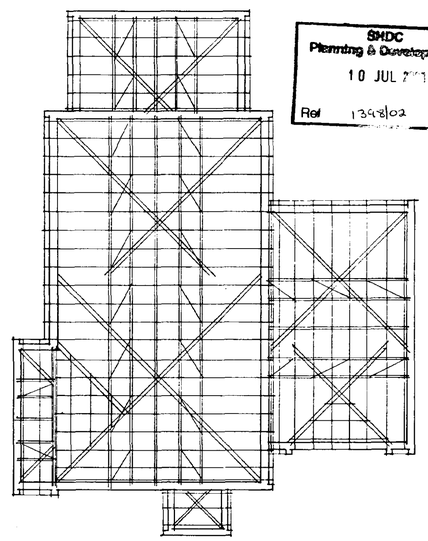


FLOOR JOISTS TO BE
50 x 200 SC3 GRADE
AT 400 C/C

HOUSE FLOOR JOIST PLAN

AMENDED PLAN
Ref. A-2

SHDC
Planning & Development
10 JUL 2003
Ref 1348/02



HOUSE ROOF PLAN

First Floor Construction
19mm flooring grade moisture resistant decking on timber joists as stated on plan. To external walls joists to be supported on joist hangers (not built into wall). Provide 30mm x 5mm mild steel restraint straps to joists running parallel with wall securely fixed to walls and to span minimum 3 no. joists at maximum 1200mm c/c. At strap positions provide pack and noggin to joists. Solid strutting to be installed mid-span where span of joists between 2.5m and 4.5m. For spans in excess of 4.5m position of struts at 1/3 rd span. Double up floor joists locally under bath feet and hot water cylinder where applicable. All doubled up joists to be bolted together at 600mm centres.

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 85%

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.

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

Header Tank Support
Water tank in roof space to be supported on bearers to spread the load to BS5268 Part 3 1985.

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

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

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

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

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.

Hot water cylinder to be minimum 115lt capacity.

Seal all openings and joints to perimeter walls.

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

First floor habitable rooms shall have means of escape windows with openings of at least 450mm wide x 450mm high and a minimum area of 0.33m²

D - SOLDIER COURSES. ADDED - 9.7.03
C - B.R. ALTS - 7.7.03
B - GARAGE DOOR ALTS - 27.6.03
A - MINOR ALTS/DETAILS ADDED - 18.12.02

Status DESIGN
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT DWELLING AT FIRST BUNGALOW, GULL BANK, WHAPLODE DROVE FOR

MR. & MRS. W.F.M. NAIKEN.

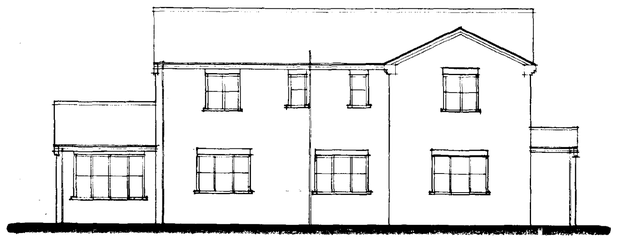
GARAGE

1:50 1:100	SD02-063/4
DEC-02	B.GILHAM.

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



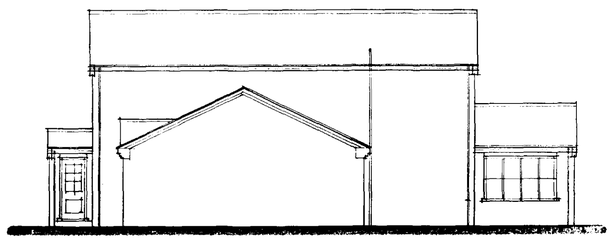
FRONT



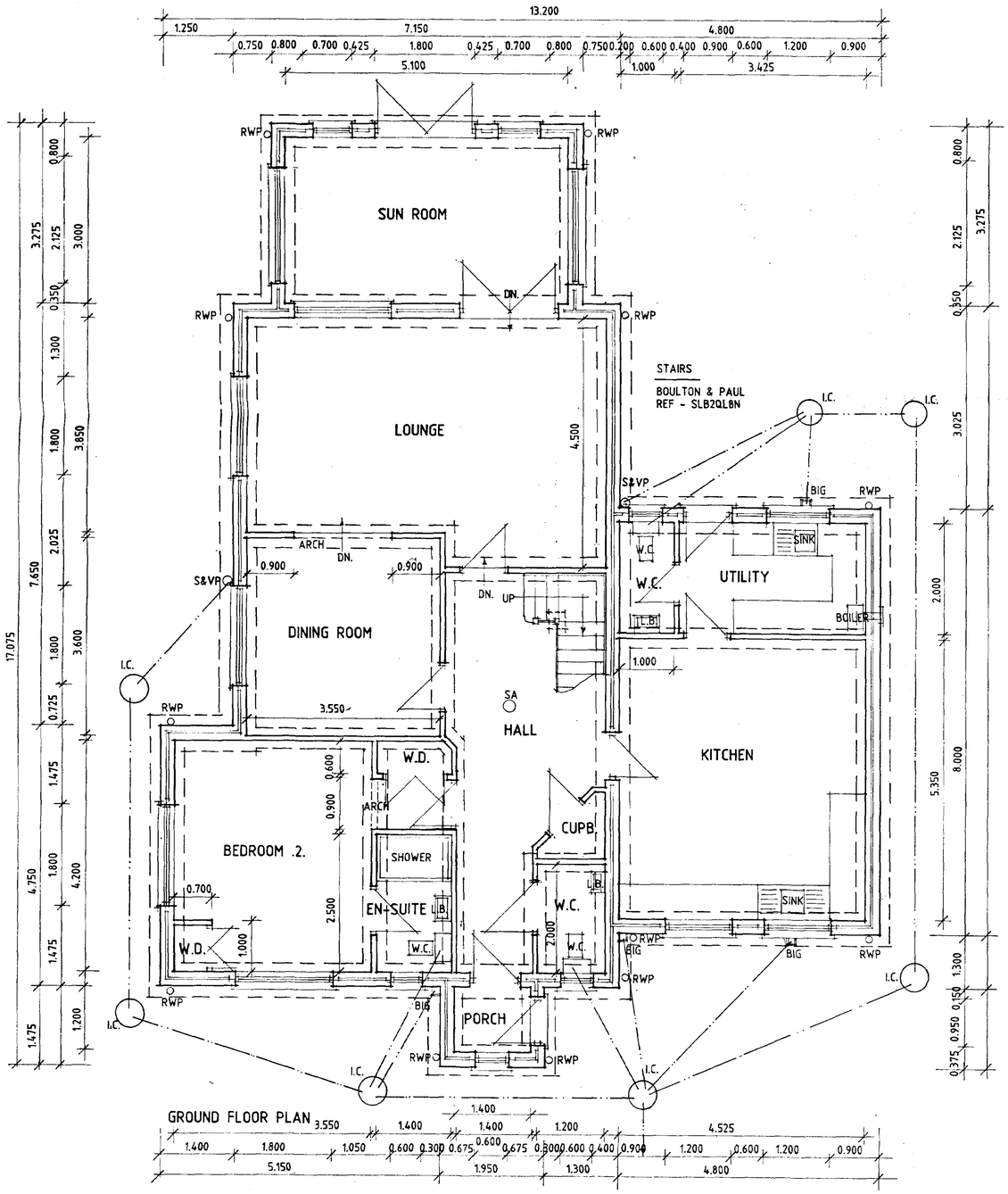
SIDE

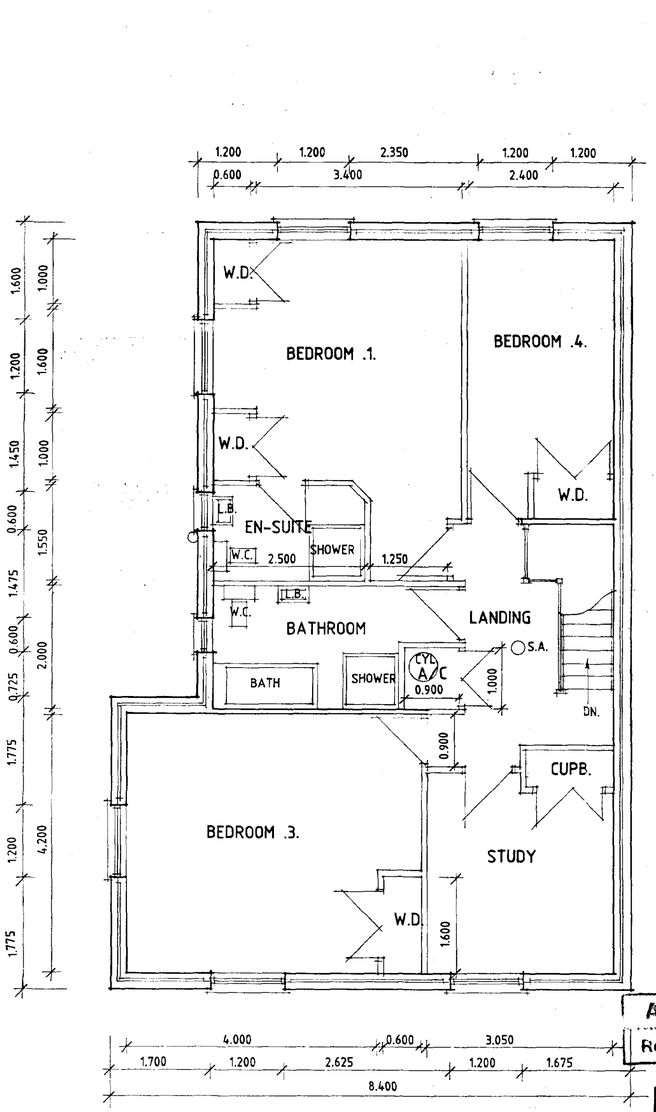


REAR



SIDE





LINTELS

I.G TYPE L1/S75 LINTELS TO OPENINGS IN CAVITY WALLS.

I.G. TYPE INTERNAL 100 LINTELS TO OPENINGS IN 100 WALLS OVER OPENINGS OF MAX. 1.0m SPAN

LARGER OPENINGS IN 100 WALLS USE I.G. BOX 100 LINTELS

I.G. L1HD75 LINTELS TO OPENINGS IN BED .2. , DINING ROOM & LOUNGE

D - WINDOW. ARCH. ALTS 27.6.03
C - B.R. ALTS - 4.2.03
B - B.R. ALTS - 20.1.03
A - MINOR ALTS/DETAILS ADDED - 17.12.02

AMENDED PLAN
Ref. A1

SHDC
Planning & Development
30 JUN 2003
Ref 1398/02

Status Design
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT DWELLING AT FIRST BUNGALOW, GULL BANK, WHAPLODE DROVE FOR

MR. & MRS. W.F.M. NAIKEN.

1:50 1:100	SD02-063/3
DEC-02	B.GILHAM.

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

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.

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.

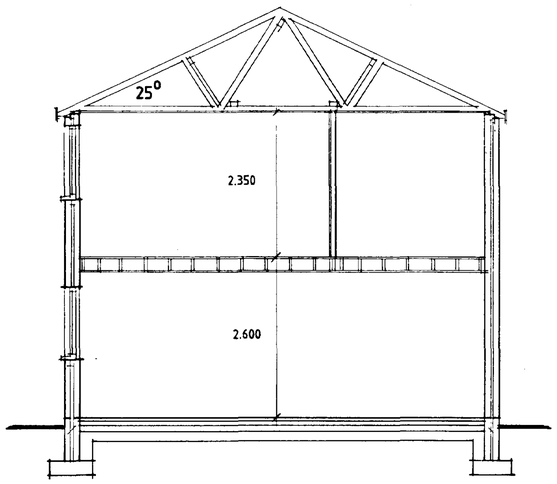
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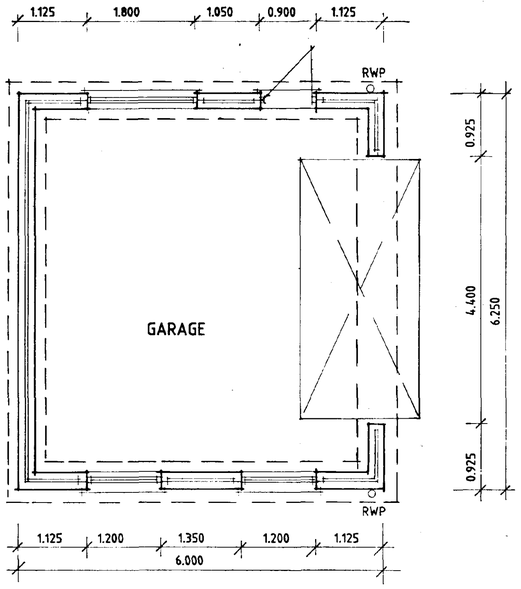
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Provide safety glass to BS6206 to all windows to a minimum height of 800mm above floor level plus doors to a minimum height of 1500mm above floor level. Side screens to be same as doors if within 300mm of doors.

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

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



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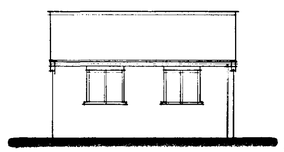
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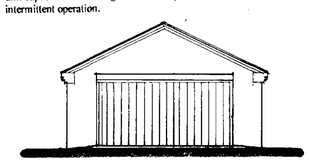
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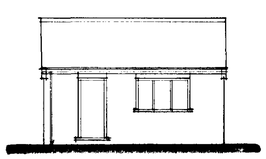
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Provide proprietary mechanical extract ventilation unit capable of extracting 30 lt/sec. System to offer intermittent operation.



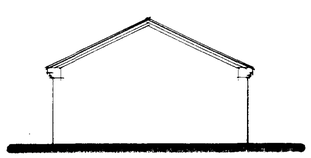
FRONT



SIDE



REAR



SIDE

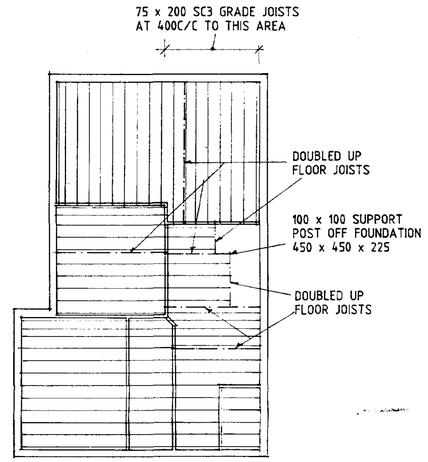
Private Stairs
Stairwell formed by timber trimmers and load bearing walls (see plan). Provide timber balustrading to open side of stairs 900mm above pitch line and 1000mm high to stairwell opening to act as guarding and to be capable of resisting a horizontal force of 0.36 KN/m. Balustrading to be vertical type, not horizontal or ranch style. No parts of stairs to have any gaps greater than 99mm. Provide timber handrail to top of balustrading or independently 900mm above pitch line. Ensure minimum headroom above pitch line is 2000mm. Total rise: See plan. Maximum rise: 220mm. Minimum going: 220mm. Maximum pitch: 42°. Read in conjunction with Approved Document K.

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.

Soldier Coursing
Provide soldier course brickwork to all areas where shown on elevations.

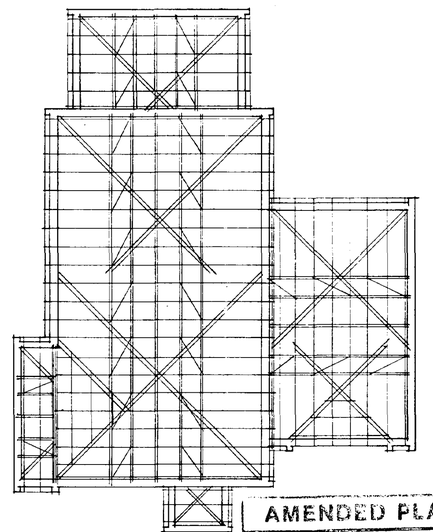
Roof Ventilation
At eaves provide proprietary ventilation equivalent to a 10mm continuous gap along eaves.

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



FLOOR JOISTS TO BE
50 x 200 SC3 GRADE
AT 400 C/C

HOUSE FLOOR JOIST PLAN



HOUSE ROOF PLAN

AMENDED PLAN
Ref. A1

SHDC
Planning & Development
30 JUN 2003
Ref 1398/02

First Floor Walling
Provide 50 x 75mm timber vertical studs at 400mm c/c to be constructed of 50 x 75mm timber head and sole plates. Provide 12.5mm Gyproc plasterboard and skim finish to both sides. Provide to airspace proprietary acoustic insulation (optional). Timber stud partitions running parallel to joist direction to be built off 2 no. floor joists fixed together. Provide 1 no. joist either end of stud partition joist beam to fix flooring.

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.

First Floor Construction
19mm flooring grade moisture resistant decking on timber joists as stated on plan. To external walls joists to be supported on joist hangers (not built into wall). Provide 30mm x 5mm mild steel restraint straps to joists running parallel with wall securely fixed to walls and to span minimum 3 no. joists at maximum 1200mm c/c. At strap positions provide pack and noggin to joists. Solid strutting to be installed mid-span where span of joists between 2.5m and 4.5m. For spans in excess of 4.5m position of struts at 1/3 rd span. Double up floor joists locally under bath feet and hot water cylinder where applicable. All doubled up joists to be bolted together at 600mm centres.

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 85%

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.

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

Header Tank Support
Water tank in roof space to be supported on bearers to spread the load to BS5268 Part 3 1985.

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

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

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

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

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.

Hot water cylinder to be minimum 115lt capacity.

Seal all openings and joints to perimeter walls.

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

First floor habitable rooms shall have means of escape windows with openings of at least 450mm wide x 450mm high and a minimum area of 0.33m²

B - GARAGE DOOR ALTS - 27.6.03
A - MINOR ALTS/DETAILS ADDED - 18.12.02

Status
DESIGN
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT DWELLING AT FIRST BUNGALOW, GULL BANK, WHAPLODE DROVE FOR

MR. & MRS. W.F.M. NAIKEN.

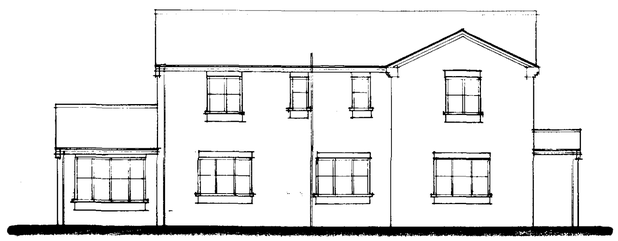
GARAGE

1:50 1:100	SD02-063/4
DEC-02	B.GILHAM.

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



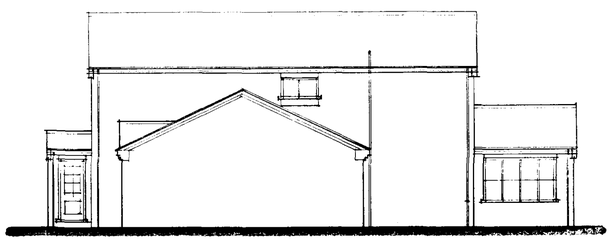
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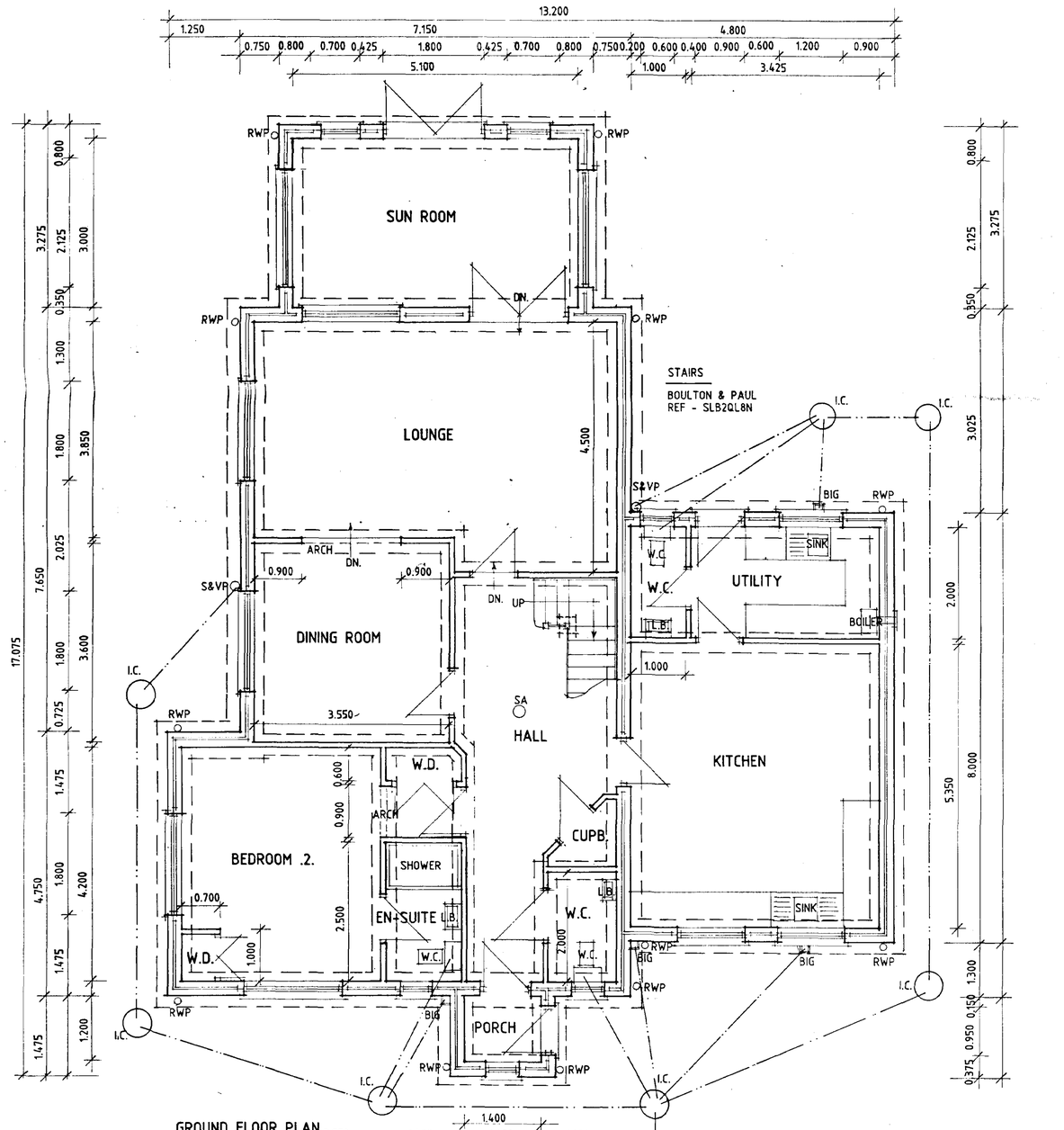
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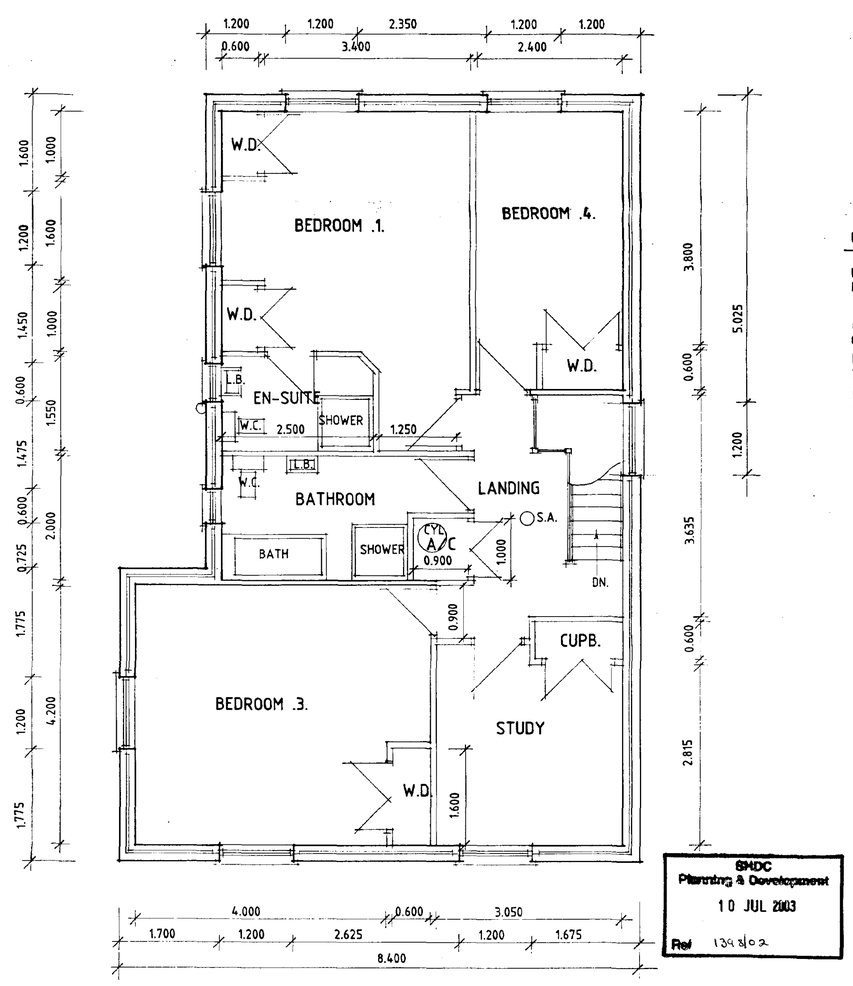


REAR



SIDE





FIRST FLOOR PLAN

LINTELS

I.G TYPE L1/S75 LINTELS TO OPENINGS IN CAVITY WALLS

I.G. TYPE INTERNAL 100 LINTELS TO OPENINGS IN 100 WALLS OVER OPENINGS OF MAX. 1.0m SPAN

LARGER OPENINGS IN 100 WALLS USE 1.G. BOX 100 LINTELS

I.G. L1HD75 LINTELS TO OPENINGS IN BED .2. , DINING ROOM & LOUNGE

E - WINDOW ADDED ETC - 9.7.03
D - WINDOW. ARCH. ALTS 27.6.03
C - B.R. ALTS - 4.2.03
B - B.R. ALTS - 20.1.03
A - MINOR ALTS/DETAILS ADDED - 17.12.02

SHDC
Planning & Development
10 JUL 2003
Ref 13/3102

AMENDED PLAN
Ref. A2

Status
DESIGN
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT DWELLING AT FIRST BUNGALOW, GULL BANK, WHAPLODE DROVE FOR

MR. & MRS. W.F.M. NAIKEN.

1:50 1:100	SD02-063/3
DEC-02	B.GILHAM.

2 Edinburgh Walk, Holbeach, Spalding, Lincs. PE12 7AP
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