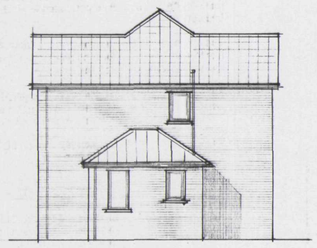
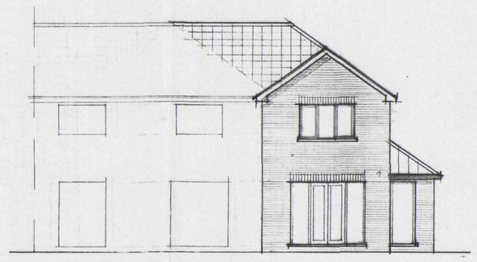


north



east



south

FOUNDATIONS

Foundations to be ST4 grade concrete

For 275mm walls foundations to be 700 x 230mm

Foundations to be taken down to a firm loadbearing strata, a min. 1.0m if in shrinkable sub soil, in accordance with the requirements of the Local Authority Building Control Dept. and in accord with the NHBC guidelines for building near trees.
Site soil surveys are recommended in respect of foundations to establish specific site conditions before foundation work is undertaken.

FLOOR CONSTRUCTION

Ground
65mm sand/cement screed reinforced with chicken wire mesh
500g polythene separating membrane
48mm Celotex GA2000 floor insulation
100mm ST4 grade oversite concrete
1200g polythene damp proof membrane
25mm sand blinding
100mm compacted hard-core - if in excess of 100mm fill, to a max. 600mm, the hard-core is to be laid and compacted in layers not exceeding 150mm.
Strip off all vegetable soil beneath proposal.

First
18mm Weyroc floor panels
200 x 50mm SC3 grade tanalised timber joists, unless specified otherwise on joist plan, at 400mm cts with min. 1 row herringbone strutting midspan
12.7mm plasterboard, fixed in accord with manufacturers instructions, with all necessary noggins etc. and finished with either artex or skim in accord. with clients instructions.

Note : Where joists are buit into walls the blocks abutting the joist are to be cut to provide a tight finish and the joist sealed to the blocks all round using proprietary silicone sealant.

WALL CONSTRUCTION

Below Ground
To be 100mm Class A concrete blocks
Cavity to be filled to 225mm below lowest dpc level with lean mix concrete

Above Ground
To be 275mm o/a constructed as follows :-

- 100mm facing brick (to be FL quality below dpc level)
- 75 mineral wall insulation i.e. Dritherm (k = 0.036)
- 100mm loadbearing insulation blocks i.e. Tarmac Toplite standard, k = 0.15

All to be tied together using stainless steel wall ties positioned at distance not exceeding 900mm horizontally, 450mm vertically and staggered. To be at every block course vertically at all returns and reveals.

Internal finish to be 12mm render with gypsum plaster skim finish to give a 'U' value of 0.303W/mK

Stud Partitions
to be constructed as follows :-

- 75 x 50mm head and sole plate
- 75 x 50mm studs at 400mm cts with min. 2 rows
- 75 x 50mm noggins equally spaced
- 75mm glassfibre insulation within framework
- face both sides with 12.7mm plasterboard, tape joint and skim finish

stud partitions to be constructed off doubled up floor joists (bolted together at 1.0m cts) at first floor level when running parallel to joists, and off 75 x 50mm sole plate, with solid blocking between joists, when running perpendicular to joists.

DPC in Walls
To be a min. 150mm above finished ground level
An insulating vertical cavity closer and dpc, i.e. Thermabate, is to be provided to all cavity closures.
A dpc cavity tray, stepped as applicable, is to be constructed within the wall immediately above an abutment.

LINTELS

Lintels to be Catnic, or similar and equivalent, to have a min. 150mm end bearing and be installed in strict accordance with manufacturers instructions with a dpc cavity tray over where applicable.

Lintels over internal openings to be Catnic CN102 lintels unless specified otherwise.

Lintels to be protected with min. 15mm gypsum plaster skim finish to give a min. half hour fire protection.

WINDOWS & DOORS

Windows and doors to be purpose made UPVC, or similar and approved, double glazed using glass having a soft low E coating with an emissivity value of 0.05 with 12mm air gap to sealed units and weather stripped.
'U' value of double glazing to be 2.0W/m²ºK
Double glazing manufacturers certificate to be provided to prove compliance of the glazing to that specified.

Windows to habitable rooms are to incorporate a controllable trickle vent of 8000mm², 4000mm² to non habitable rooms.

Windows to first floor habitable rooms are to contain openings that have min. dimensions of 450mm and a min. area of 0.33m², and have a cill level no more than 1100mm above finished floor level. *Key operated locking devices are not permitted to first floor windows.*

Glazing to windows less than 800mm and doors (include sidelights to doors) less than 1500mm above floor level is to be laminated or toughened glass in accord with BS6206 : 1981.

WINDOW/DOOR & LINTEL SCHEDULE

Location	window/door ref. Width	x	height	lintel ref. &	length
1	1800		1050	CG70/100	2100
2	630		1050	"	900
3	630		1350	"	900
4	900		2100	"	1200
5				"	1200
6	2400		2100	"	2700
7				"	1200
8	1800		1200	"	2100
9	630		750	"	1050
10	1800		1200	"	2100

VENTILATION

All habitable rooms are to have windows containing opening vents, the combined total of which is equal to not less than 1/20th of the floor area of the room.

The kitchen is to be mechanically ventilated direct to the external air. The capacity of the extractor is to be 60 litres/sec or 30 litres/sec if in a cooker hood.

All bath and shower rooms are to be mechanically ventilated direct to the external air. The capacity of the extractor is to be 15 litres/sec.

SMOKE DETECTION

Self contained smoke alarms complying with BS5446 : Pt 1 : 1990 are to be installed where indicated SD on the drawing. An alarm must be positioned within 3.0m of bedroom doors.

The alarms are to be permanently wired to a separately fixed circuit at the distribution board operating at a low voltage via a mains transformer.

Where more than one smoke alarm is required the units are to be interconnected so that the detection of smoke by one unit operates the alarm signal in all units.

The wiring installation is to comply with the I.E.E. Regulations.

HOT WATER/CENTRAL HEATING SYSTEM

Thermostatic radiator valves are to be installed with a room thermostat provided to switch off the boiler when there is no demand for heating or hot water.

The hot water system is to be vented.

All pipes not contributing to useful heat requirements are to be insulated using an insulation material with a thermal conductivity not exceeding 0.45W/mk and a thickness equal to the external diameter of the pipe up to a max. of 40mm.

DRAINAGE

Surface
Excavate for and lay in where indicated 100mm diam. flexible jointed UPVC drains on 100mm pea gravel bed from 100mm diam. upturned bend at base of downpipe to surface water soakaway.

Form soakaway where indicated a min. 5.0m from the nearest building. Excavate 1200 x 1200 x 1200mm deep, backfill with brick rubble to 300mm below ground level, lay in sheet polythene and make up with vegetable soil.

Foul
Supply and install proprietary upvc inspection chambers on 100mm pea gravel bed in strict accordance with manufacturers instructions. Inspection chambers to conform to the following sizes :-

Depth	Internal diam	Cover diam
.6m or less	190mm	190mm
1.0m or less	450 mm	450mm

Excavate for and lay in where indicated 100mm diam. flexible jointed upvc drains on 100mm pea gravel bed at a gradient of 1 : 70.

Where 100mm diam. drains pass through walls they are to be protected by the use of a lintel over. Both sides the wall to be masked with rigid sheet material with 50mm clearance of the pipe and the void filled with compressible material to prevent entry of gas.

Where flexible pipes are not under a road and have less than 600mm cover they are to have concrete paving slabs with a compressible filler laid as bridging above the pipes for protection and are to have a min. 75mm granular material between the top of the pipe and the underside of the compressible filler.

Where flexible pipes are under a road/drive with less than 900mm cover reinforced concrete bridging is to be used instead of paving slabs.

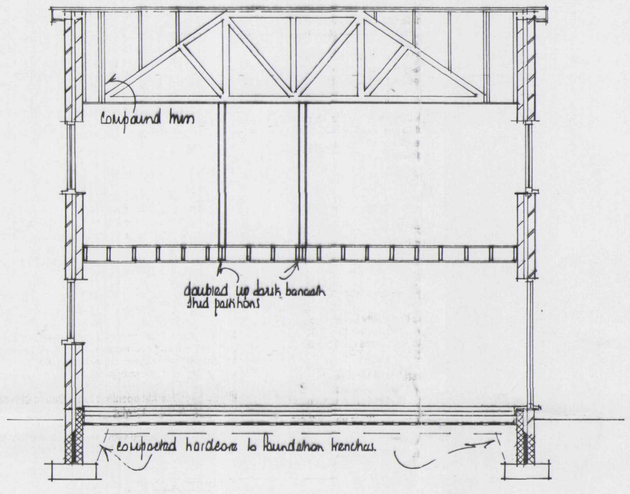
Install where indicated a 100mm diam. soil and vent pipe jointed to 100mm diam. upturned bend at base. Finish at top, a min. 900mm above window head height, with a durable cage.

Install where indicated trapped (roddable) gullies - waste pipes to discharge below grating level and above water level.

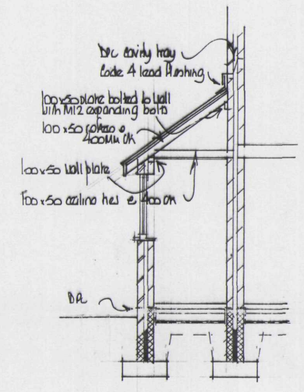
Install 40mm diam. pvc waste to sinks and showers, *(NOTE : shower trays to be constructed on a suitable plinth to maintain access to trap and waste)*, 32mm diam. pvc waste to hand basins all with 75mm deep traps. All waste pipes to have rodding access at each change of direction and be readily accessible throughout their length.

Above ground drainage to comply with BS5272 : 1978
Below ground drainage to comply with BS8301 : 1985

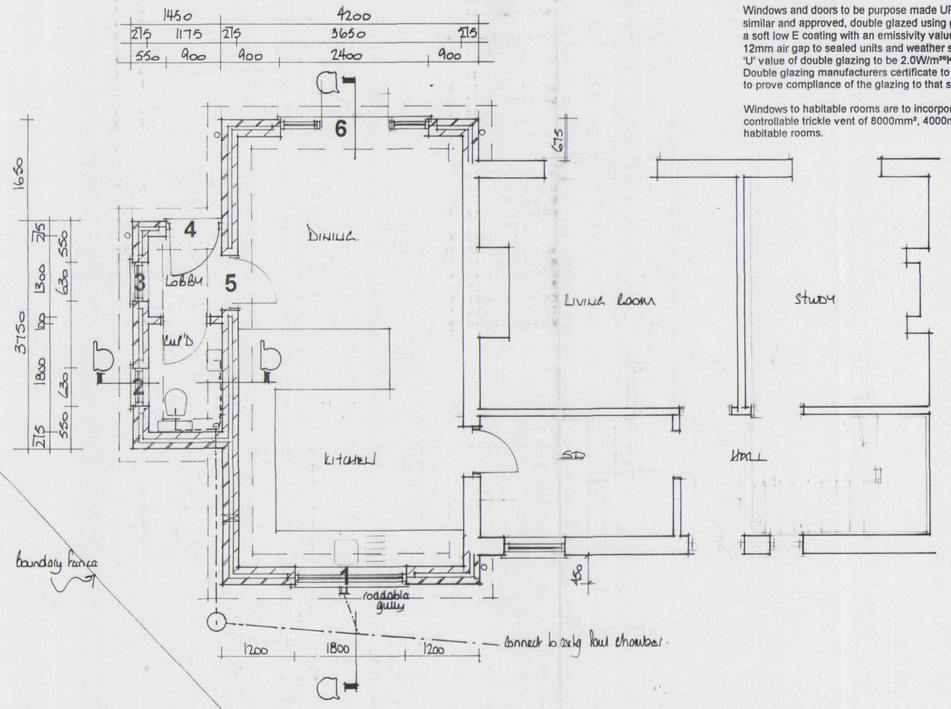
All drainage items are to be installed in strict accordance with the manufacturers instructions.



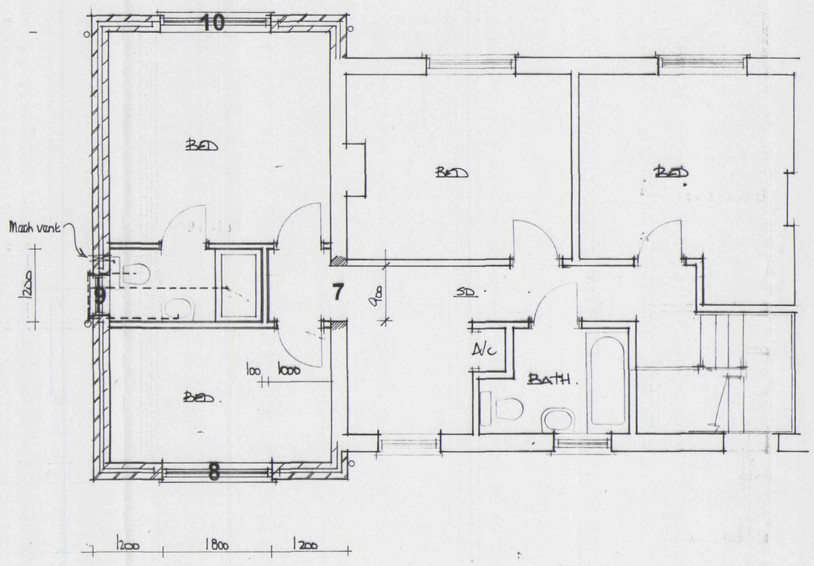
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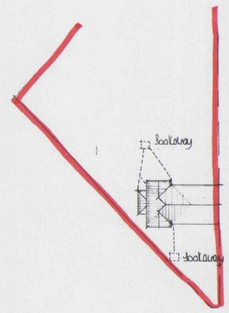
b - b



ground floor plan



first floor plan



block plan

SHDC PLANNING & DEVELOPMENT
05 DEC 2003
Ref 1472/03

DETERMINED PLAN

EAST MIDLANDS DESIGN ASSOC.
Architectural Consultants
Willow Lodge
Horseshoe Road
Spalding
Lincs
PE11 3JA
Tel/fax :- 01775 767968
E-mail :- willowlodge@zoom.co.uk
Mobile phone :- 07710 815044

Client
MRS E. WILKINS

Project
EXTENSION TO DWELLING AT
17 FLINDERS ROAD
DONINGTON
SPALDING. LINCS.

Drawing
PLANS, ELEVATIONS.

Scale 1:50. 1:100
Date Sept 03 Drawn AL
Dwg No: 03/36/01 Rev.