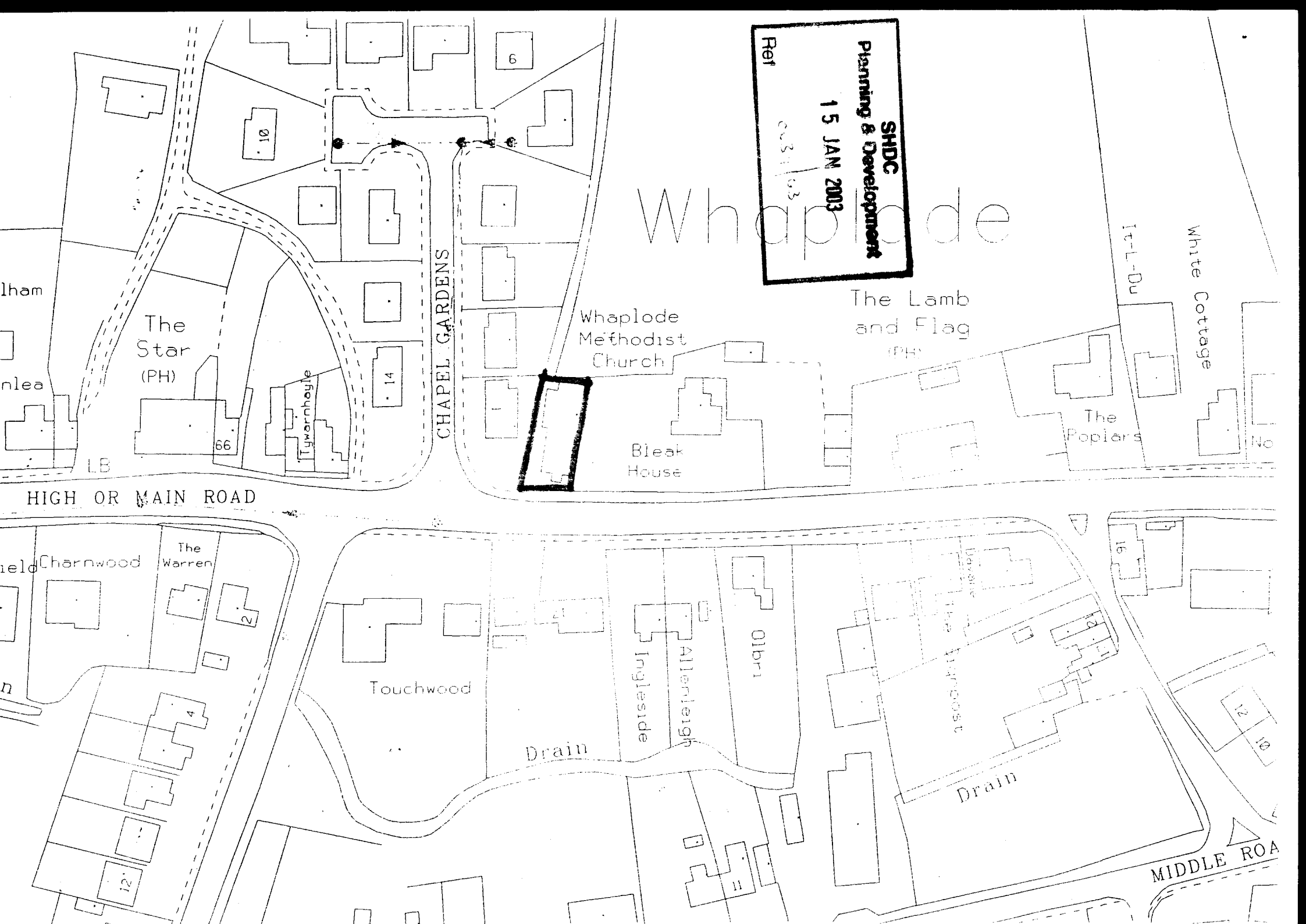
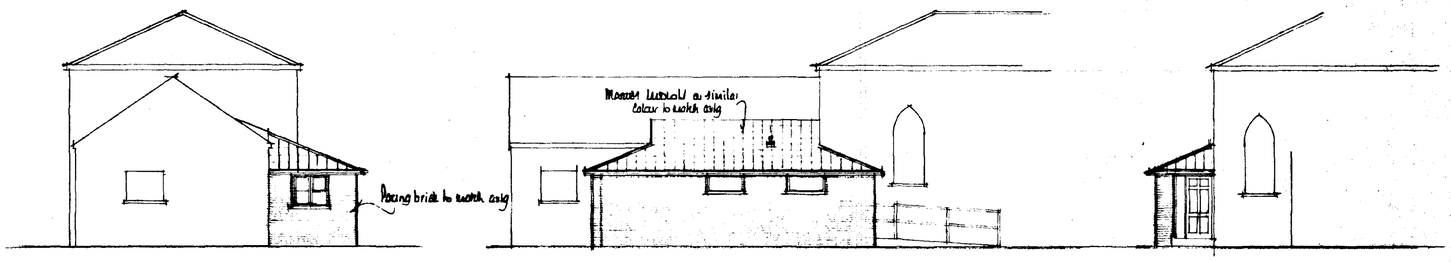

SHDC
Planning & Development
15 JAN 2003
Ref
Whaplode
The Star
(PH)
Tywarnhayle
CHAPEL GARDENS
Whaplode
Methodist
Church
The Lamb
and Flag
(PH)
Bleak
House
The
Poplers
White Cottage
HIGH OR MAIN ROAD
Charnwood
The
Warren
Touchwood
Drain
Inglestde
Allenleigh
Olbri
Drain
MIDDLE ROA
LB



north west 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
300g polythene separating membrane
40mm 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.
Where 100mm internal walls are constructed off the floor slab the slab is to be thickened to 230mm for a min. width of 450mm
Strip off all vegetable soil beneath proposal.

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)
50mm cavity
25mm Celotex CW2025 cav. wall insulation board
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

Internal Walls
To be 100mm blockwork constructed off a dpc off the floor slab

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/m²K
Double glazing manufacturers certificate to be provided to prove compliance of the glazing to that specified.

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

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	1200 x 2100	CG700/100 1500
2	1200 x 600	" 1500
3	1200 x 600	" 1500
4	1200 x 1050	" 1500

The clear opening width of the principal entrance door is to be 775mm and the entrance to the lobby is to include a level access threshold.

All internal doors to rooms other than cup'ds etc. are to be 838mm wide

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 toilet cubicles are to be mechanically ventilated direct to the external air. Extractors are to be capable of a min. 3No. air changes per hour and are to incorporate a 15 minute over-run period

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.

A proprietary hot water heater is to be installed, the size of which is to be determined by the manufacturer, to provide hot water for the sink and handbasins

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 spun 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
1.5m or less	1050mm	600mm
over 1.5m	1200mm	600mm

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.

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 (resistable) gullies - waste pipes to discharge below grating level and above water level.

Install 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.

ROOF CONSTRUCTION

Tiles
The roof is to be covered with interlocking concrete roof tiles fixed in strict accordance with manufacturers instructions and laid with a 100mm headlap.

Battens
Approved quality tanalised s/w battens, 38 x 25mm, are to be laid at a gauge suitable for the tiles and fixed with 90 x 3.35mm wire nails. Battens should be at least 1.2m in length and should be of sufficient length to be supported at each end and intermediately by at least three rafters, trusses or walls. Butt joints over intermediate supports should be staggered and the ends must be sawn.

Underlay
Approved reinforced roofing felt, type 1F to BS 747, is to be laid over the rafters lapped 150mm at the joins and secured with clout nails. The underlay should extend over the fascia board and into the eaves gutter. In order to prevent water traps behind the fascia it is recommended that a strip of 6mm marine plywood is provided to support the underlay. The ply is to be laid over the rafters and under the roofing felt positioned as close as possible to the last tiling batten and secured to the fascia.

Eaves
Eaves are to be formed with standard size tiles and purpose made eave fillers must be nailed to the fascia board. Eave tiles must be laid at the same pitch as the main body of tiling and should overhang the fascia by an amount sufficient to ensure that the water discharges into the centre of the gutter.

Verges
Verges are to be formed with 150mm wide asbestos cement strip onto which is bedded the tiles which form the verge projecting approx. 50mm over bargeboards or gable brickwork.

STRAPPING

Where rafters, floor joist and ceiling tied run parallel to walls they are to be strapped at 1800mm cts. Straps to be fixed to a min. 3No. rafters etc., having nogged between beforehand, and hooked into the cavity a min. 150mm.
Similar straps to be used at 1800mm cts to hold down the wall plate

Straps to be 30 x 6mm galv. m.s.

Tiles
Hips should be covered with factory segmental ridge tiles of similar colour and texture to that of the main roof tiles. The tiling should be cut closely to the rake of the hip and the ridge tiles bedded, with solid bedding at butt joints, onto the adjacent roof tile.

A galv. hip iron, 6mm thick, should be fixed at the base of the hip tree with 2No 2.65mm diam. screws.

The first hip tile should be shaped at the foot to the line of tiling at the eaves and the tail end filled with mortar inset with pieces of tile and neatly pointed.

The junction of the hip and ridge should be mitred using a standard three way mitre and solid bedding.

Abutments
The tiling is to be cut closely at abutments and weathered by Code 4 lead flashing dressed down over the tiles and up the abutment a min. 150mm

Mortar
All bedding mortar is to consist of 3 parts sharp sand to 1 part Portland cement and should be struck off to give a smooth face and pointed in one operation.

Traditional roof construction

Rafters	150 x 50mm @ 400mm ctrs
Hip rafters	225 x 63mm
Ceiling ties	125 x 50mm @ 400mm ctrs

All timber to be SC3 grade unless specified otherwise.

Insulation
To be Rockwool Rollbatts (k = 0.037 W/mK), 150mm laid between joists with a further layer of 150mm laid at right angles over the top.

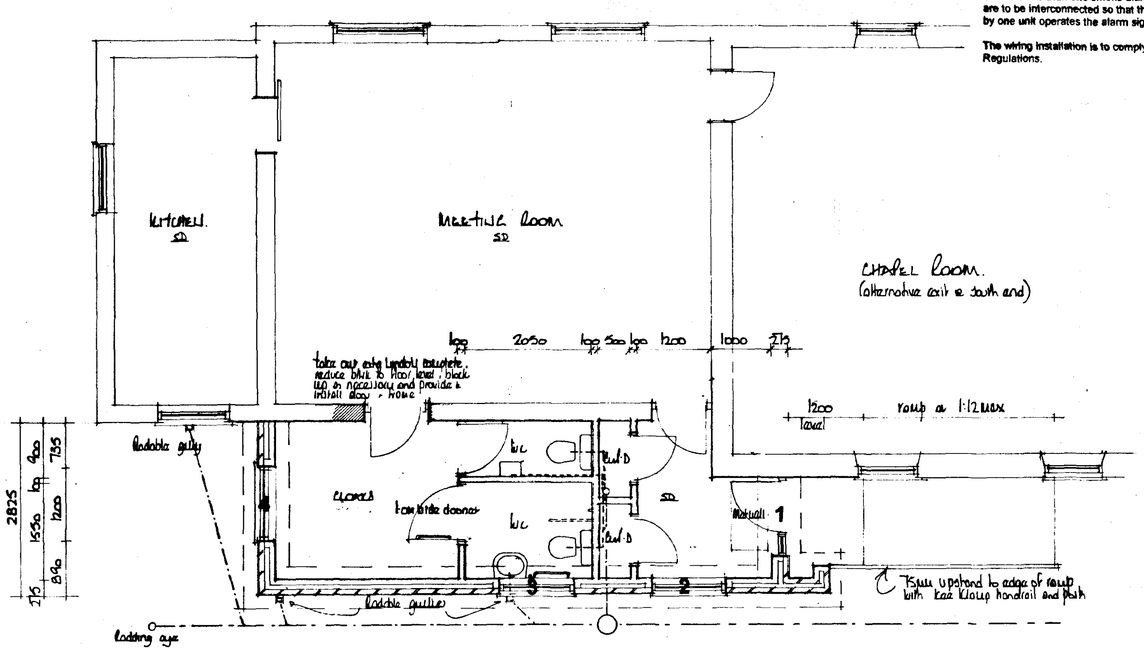
Where the ceiling line follows that of the rafters 50mm Celotex Double R insulation is to be laid between and flush with the underside of the rafters with an additional layer of 20mm Celotex Double R insulation fixed to the underside of the rafters.

Ceilings
12.7mm plasterboard, fixed in accordance with manuf. instructions with all necessary noggins etc., and finish with artex/skim finish in accord with clients instructions.

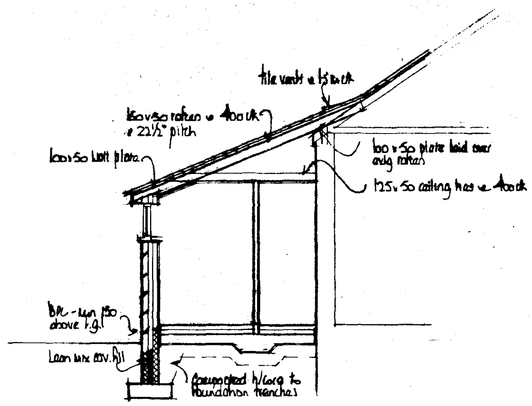
Ventilation
Provide over fascia ventilation (equal to a 25mm continuous gap) in conjunction with Glidevale or similar ventilating roof tiles positioned as indicated on section to provide cross ventilation to the roof space.

Rainwater Goods
Supply and fix 115mm PVC gutters to fascia with all necessary brackets, stop ends, outlets etc.

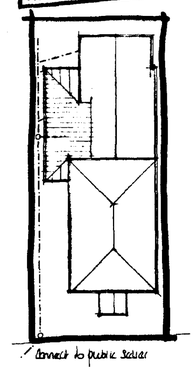
Supply and fix 64mm PVC downpipes securely clipped to walls at 1800mm cts with all necessary offsets, swannecks, adaptors etc. and taken into 100mm diam. upturned bend at base.



ground floor plan



section



block plan

SNDC Planning & Development
15 JAN 2003
0039/03
Ref

A		
	Date	Revisions

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East Midlands Design Associates
"Willow Ledge",
Horseshoe Road,
Spalding,
Lincs. PE11 3JA
Tel. Spalding (0775) 767968

Client
Whaplode Methodist Church

Job Title
Proposed Extension & toilet facilities at Main Road Whaplode Spalding Lincs.

Drawing Title
Plans section & elevations
DETERMINED PLAN

Scale 1:50 . 1:100 . 1:250

Date Jan 03 | Drawn by AL

Drg No 02/19/01 | Rev