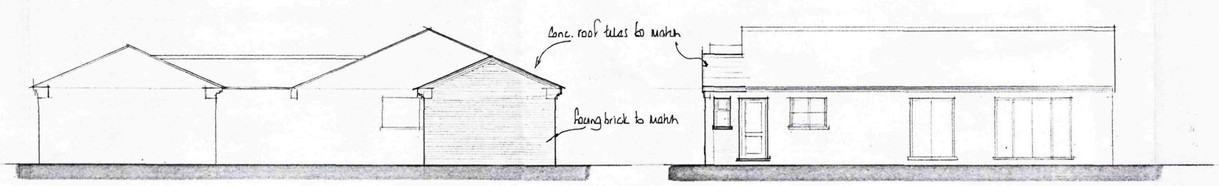
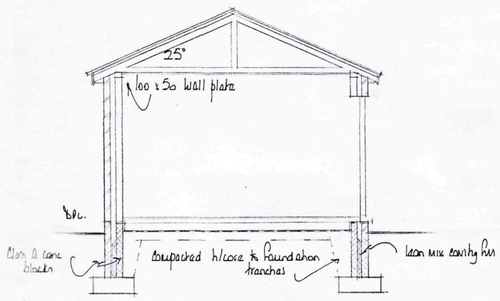


east

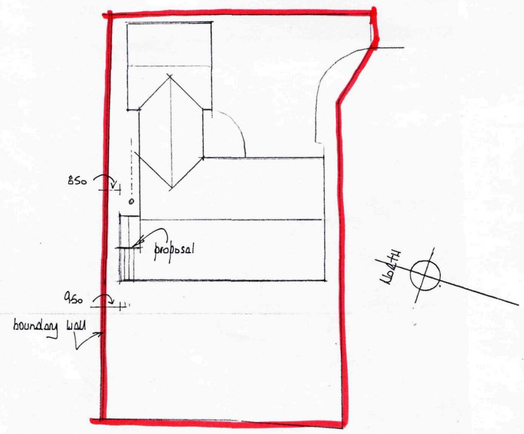


north

west



section



FOUNDATIONS

Foundations to be ST4 grade concrete

For 290mm 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
80mm min. Celotex fast-R FF3000 floor insulation
100mm oversite concrete
1200g polythene damp proof membrane lapped with dpc in walls
100mm compacted hardcore

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 290mm c/a constructed as follows :-

100mm facing brick (to be FL quality below dpc level)
50mm cavity
40 Celotex tuff-R CW3000 wall insulation
100mm loadbearing insulation blocks i.e. Tarmac Topblock Supablock, k = 0.11

All to be tied together using stainless steel wall ties positioned at distance not exceeding 750mm horizontally, 450mm vertically and staggered. To be at every block course vertically at all returns and reveals.

Internal finish to be 15mm render with gypsum plaster skim finish to give a 'U' value of 0.29W/mK

Internal Walls
To be 100mm blockwork constructed off a dpc off a foundation/floor beam as indicated

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 min. 16mm air gap to sealed units and weather stripped 'U' value of double glazing to be 1.8W/m²ºK
Double glazing manufacturers certificate to be provided to prove compliance of the glazing to that specified.

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.

VENTILATION

All habitable rooms are to have windows containing hinged or pivoted opening vents (which open greater than 30º) or sashes, the combined total of which is equal to not less than 1/20th of the floor area of the room
If the vents open at an angle of less than 30º then the combined total is to be not less that 1/10th of the floor area.

All sanitary accommodation is to be mechanically ventilated direct to the external air, the extractor fan to have amin. Capacity of 6 litres/sec.

The utility is to be mechanically ventilated direct to the external air. The capacity of the extractor is to be 30 litres/sec.

All internal rooms 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 when installed in WC's, bath/ shower rooms.

BACKGROUND VENTILATION

Background ventilation is to be provided either by trickle vents set within the construction of the windows or by airbricks through the walls with a controllable hit/miss vent on the inside. The area of the trickle vents to habitable rooms is to be a minimum of **5000mm²** and to wet rooms i.e. kitchen, utility, bath, shower rooms etc is to be a minimum of **2500mm²**.

ELECTRICAL INSTALLATION

The electrical installation is to be carried out by an electrician registered with NICEIC, ECA or NAPIT. The *electrician is to issue a design, installation and test* certificate under BS7671 upon completion of the works.

Any electrical fitting indicated on the drawing in a position contravening these regulations must be relocated in order to achieve full compliance.

All switches, sockets, tv points and telephone jackpoints are to be located at a height between 450 and 1200mm above finished floor level.

light fittings are to be comprised of fluorescent tubes or compact fluorescent lamps or other light fitting which will only accept lamps having a luminous efficacy greater than 40 lumens per circuit-watt.

External light fittings i.e. porch etc. are to be controlled by the fitting of passive infra red's with bulkhead fittings having sockets that can only be used with lamps having an efficacy greater than 40 lumens per circuit-watt.

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.

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

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

Install 40mm diam. pvc waste to sink, 32mm diam. pvc waste to hand basin all with 75mm deep traps. *Unless specified other wise on plan.*
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.

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 breathable membrane,ie Tyvak or similar, 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.

Ridge
The ridge is to be covered with segmental ridge tiles of the same colour as the main body of tiling, unless specified otherwise, and secured using a proprietary ventilated dry ridge system having ventilation equivalent to a continuous 6mm gap.

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.

Trusses
Gangnail trusses, pitch as specified on sections, at 600mm centres to be designed, fixed and braced in *accordance with BS5268 : pt3 : 1985 and secured to wall* plate with proprietary stainless steel clips.

Manufacturers details and calculations in respect of prefabricated trusses, include compound roof trusses, are to be submitted to the Local Authority Building Control Dept. for approval at least 28 days prior to fixing on site.

Truss positions and bracing shown is indicative only and is to be confirmed/superseded by truss manufacturer.

All bracing to be 100 x 25mm.

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.

Ceilings
12.7mm foil backed plasterboard, fixed in accordance with manuf. instructions with all necessary noggins etc., and skim finish.

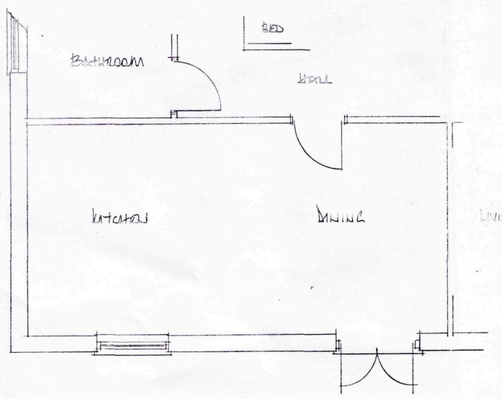
Rainwater Goods
Supply and fix 115mm PVC gutters to fascia with all necessary brackets, stop ends, outlets etc.

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.

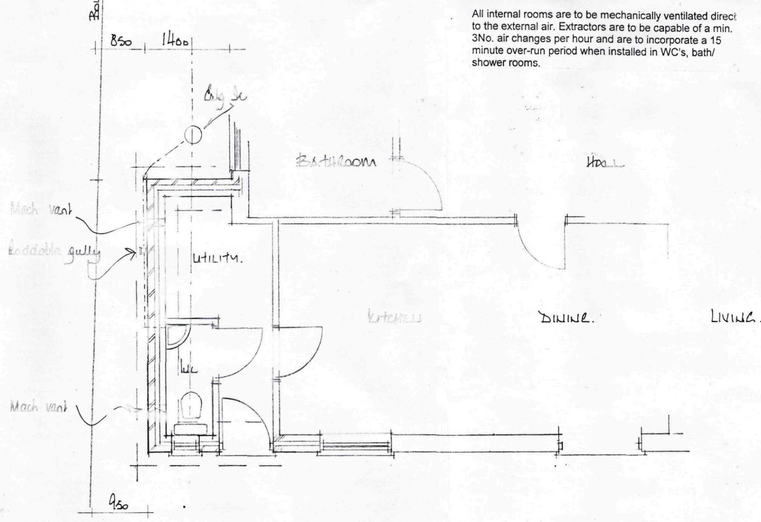
STRAPPING

Where rafters, floor joist and ceiling ties 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.



existing
ground floor plan



proposed

SHDC
Planning & Development
- 3 NOV 2009
Ref: 0866-09

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Client
Northood Homes Developments Ltd

Project
Extension to Dwelling at

Drawing
Plans . Section . Elevations

Scale
1:50 . 1:100

Date
October 09

Drawn
DT

Dwg No.
07/01/20

Rev