

**PROPOSED SIDE ELEVATION**  
SCALE 1:100

**PROPOSED REAR ELEVATION**  
SCALE 1:100

**PROPOSED SIDE ELEVATION**  
SCALE 1:100

**PROPOSED FRONT ELEVATION**  
SCALE 1:100

**GENERAL SPECIFICATION**  
(unless noted otherwise on drawings or engineer's design)

#### FOUNDATIONS

Concrete deep strip 30 N/mm<sup>2</sup> strength sulphate resisting cement. Depth & width provisionally as plan but final depth & width to be agreed on site with building inspector. Drains running through foundations or under new walls to have 150 RC lintel over with 50 clearance. Foundations exceeding 1500 deep to have 75 claymaster to inside face kept 500 from bottom of excavation. Foundations dug next to neighbouring structures to be constructed in 'hit & miss' sequence. Excavate alternate bays not exceeding 1m long. Fill with concrete and dig next bay after concrete has fully set. Connect pins with M16 MS dowels. Any eccentrically loaded foundation to be 600mm wide with the outer face of wall 60 from foundation edge.

#### GROUND FLOOR - GROUND BEARING CONCRETE SLAB

Min 150 rammed hardcore blinded with 50 sand 1200 PVC DPM lapped to DPC. 100 concrete. 80 Celotex GA4000 insulation slab with staggered & taped joints. 75 screed. 500 gauge polythene separating layer between insulation & screed. All existing air vents ducted through 100 dia PVC pipe under DPC. Strip of insulation to perimeter of screed.

#### EXTERNAL CAVITY WALLS

Cavity wall of 100 Celon Standard lightweight block (K=0.15 W/m2K) inner skin, 100 Celon Standard lightweight block OR 102 facing brick outer skin to match existing outer skin (refer to plan). 1:1.6 mortar mix. Class B eng brick with sulphate resisting cement below DPC. 95 cavity fill full fill insulation to achieve U-value of 0.28W/m2K. Fill cavity with weak mix concrete to 225mm below DPC. Stainless wall ties 750 horiz, 450 vert, & 300 at reveals. Join to existing building with furrow movement joint. Provide thermalite expansion joint to external leaf on spans in excess of 6m. DPC to BS743 lapped to existing. Close cavity reveals with Thermabat insulated cavity closers. Render outer skin blockwork to match existing 2 x 10 coat 1:1.6 mix + waterproof additive BS5262 to blockwork. Stainless steel drip at DPC level. Lightweight Gypsum plaster internally - 11 Thistle Bonding Coat + 3 Thistle multi finish skim. Rear door with lintel to engineers design. Other openings to have Catnic CG70/100 lintels & 150 min bearings.

#### STEELWORK

Beams to be clad with 12.5 fireline plasterboard + skim to provide 30 min fire rating. Alternatively steelwork to be painted with intumescent paint by suitably trained person to approval of building inspector on site.

#### FIRST FLOOR

200x50 C16 joists at 400 cts. Steel joist hangers. 22mm moisture resistant T&G particle board (18 WBP ply to bathrooms) 5x30 steel restraint straps at 2000 cts over 2 joists & located in brick or blockwork. 200x38 straight strutting between joists. Soffit clad with 9 plasterboard + skim. 100 acoustic quilt between joists

#### INTERNAL PARTITIONS

75x50 stud. 12.5 plasterboard + skim. 1981x762 doorways unless shown otherwise on plan. Lay DPC under sole plates where on concrete ground floor. Double up joists under partition bolting together with M12 bolts @ 600cts if on timber floor. All partitions to contain 75 acoustic quilt. Clad bath/shower room partitions with 12.5 soundblock + 3 skim each side.

#### PITCHED MAIN ROOF

100x50 C16 rafters at 400 cts. Spiked & B-mouthed to joists & wall plates. 200x50 C16 hip & valley rafters. 200x38 ridge board. 150x75 purlins. 100x50 struts at 1000 max cts. 150x50 C16 ceiling joists to 400cts. 1 layer roof felt. 19x38 battens. 5x30 MS anchor straps at 1200 max cts screw fixed at three points to both roof structure and wall. Roof tiles to match existing. Chutes to valleys. Pitch to match existing. Ventilate at eaves. 270 fibreglass quilt laid between joists & over joists. Thru vents installed to perimeter to allow through eaves ventilation. 9 plasterbd + 3 skim to underside of joists. New hip & ridge tiles to be bedded on mortar in addition to a mechanical fixing.

#### PITCHED ROOF (WITH SLOPING SOFFIT) - UNVENTILATED

150x50 C16 rafters at 400 cts spiked & B-mouthed to joists & wall plates. 150x50 C16 joists. 5x30 MS anchor straps at 1200 max cts screw fixed at three points to both roof structure and wall. 270 fibreglass quilt laid between joists & over joists. 15 degree pitch. Tyvek breathable membrane. 19x38 battens. Sandtoft 20/20 interlocking clay tiles with 100 headlap laid to suit 15 deg pitch (or similar approved). Tile colour to match existing. 9 plasterbd + skim to soffit.

#### VENTILATION

Windows/doors to match existing & provide vent of min 1/20 floor area & built in adjustable 8000mm<sup>2</sup> min vent. Install power vent to kitchen to achieve 30 litres/sec if over a cooker or 60 litres/sec if elsewhere. WC/Bath/shower room to achieve 15 litres/sec and be connected to light switch with 15 min overrun. Vent to be ducted at ceiling level to outside air.

#### DRAINS

Clay 100 dia pipe laid in 150 pea shingle to fall min 1 in 40. Inspection chambers 150 concrete base. 215 shaft of engineering bricks type B flat pointed. Clay fittings in 1:3 mortar bedding. 600x450 steel frame & cover. Alternatively use Osma preformed IC all to manufacturers spec (only on private non shared drains). Drains shown on drawings are estimated and are to be confirmed on site before any work commences.

#### SURFACE WATER

112 dia PVC gutters. 68 dia PVC downpipes. Surface water downpipes connected to soakaway minimum 5 metres from any building. Volume of 1 cubic metre per 16.5 square metres of roof area served. Fill with hardcore.

#### ABUTMENTS

All exterior abutments to have code 4 lead min 150 flashing let into brickwork or blockwork.

#### WINDOWS & DOORS

Double glazed with 16 air gap and soft low E coating. Built in 8000mm<sup>2</sup> adjustable vent. Windows to achieve U value of 1.6 w/m2K. Doors to achieve U value of 1.8 w/m2K. All glass below 800mm, glass in doors or within 300mm of a door to be toughened safety glass.

#### ABOVE GROUND DRAINAGE AND PLUMBING

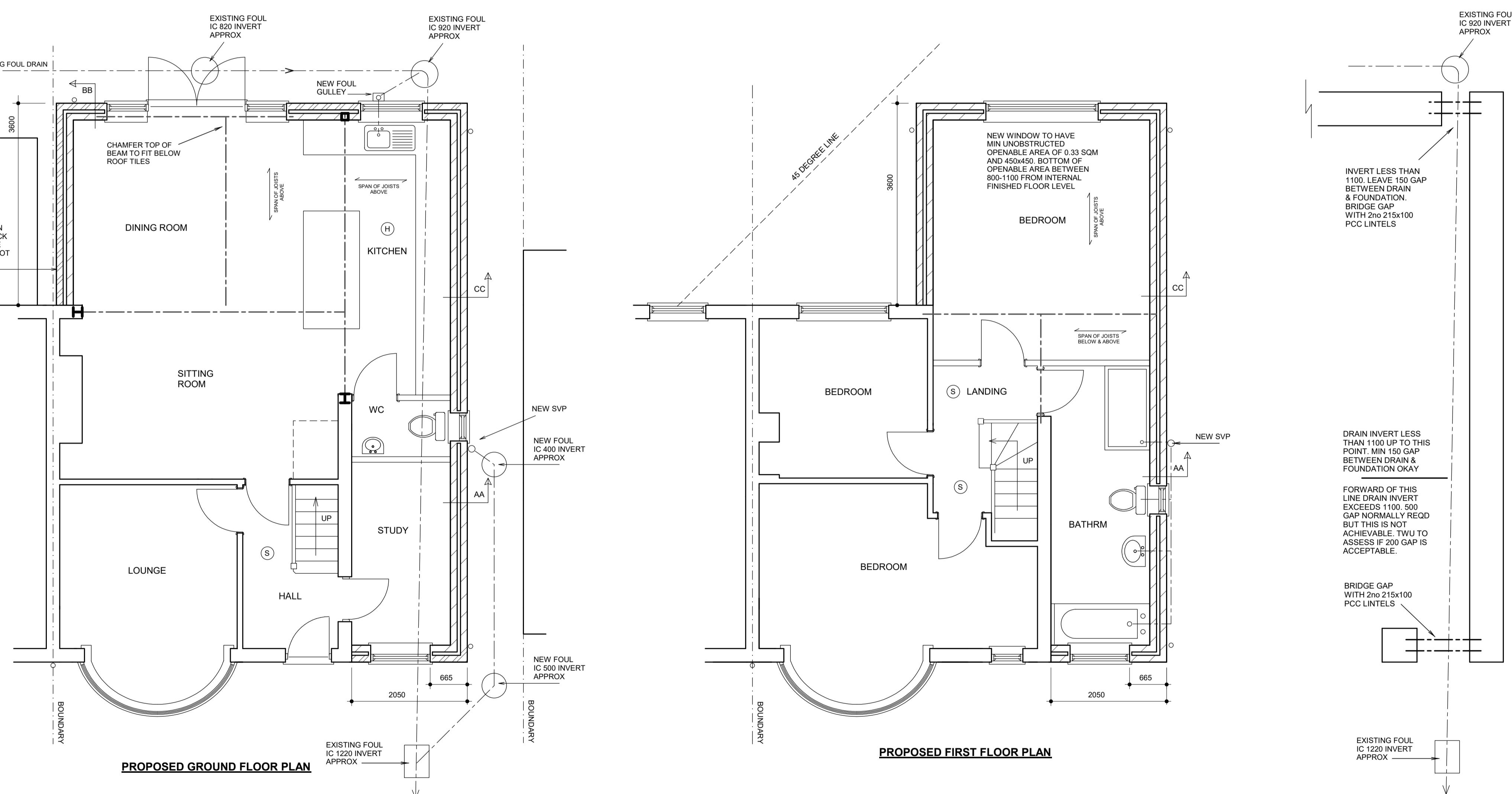
Sink, bath & shower to have 40 dia waste. Basin with 32 dia waste. All with 75 D/S traps & rodding access at bends. WC with 110 dia waste. Plumbing to comply with British Standards. SVPs to vent 900 above any openable window within 3m. Wholesome water (ie water provided by statutory water supplier via a compliant water supply installation) to be provided to all taps. Baths & shower to be thermostatically controlled to ensure water does not exceed 48 deg C

#### ELECTRICAL WORK

All electrical work required to meet the requirements of Part P (Electrical Safety). Must be designed, installed, inspected & tested by a person competent to do so. Prior to completion the council should be satisfied that the Part P has been complied with. This may require an appropriate BS7671 electrical installation certificate to be issued for the work by a person competent to do so. New light fittings to have LED bulbs. Electrical switches and sockets to be installed between 450mm and 1200mm from floor level where practical.

#### HEATING

New radiators to be fitted with thermostatic valves. Work to gas pipework, boilers & appliances to be carried out, tested and certified by Gas Safe registered person.



**PROPOSED FIRST FLOOR PLAN**

**FOUNDATION PLAN**

86 DARTMOUTH ROAD RUISLIP MIDDX HA4 0DE

HOUSE EXTENSION

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54 JOINERS LANE CHALFONT ST PETER  
BUCKINGHAMSHIRE SL9 0AT TEL: 01923 775 761  
EMAIL: jamesrush@hotmail.com

SCALE 1:50 / 1:100 @ A1

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DRG No. 2286.2 REV C

BOUNDARIES ESTIMATED AND TO BE CONFIRMED ON SITE. ALL NEW WORKS TO BE CONTAINED WITHIN TRUE BOUNDARIES UNLESS STATED OTHERWISE ON PLAN. ALL NEW WORKS TO BE IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS. DIMENSIONS IN MILLIMETRES AND NOT TO BE CONFIRMED ON SITE. ALL STEEL DIMENSIONS TO BE CONFIRMED ON SITE AND NOT TO BE TAKEN FROM STRUCTURAL CALCULATIONS. ALL DRANS & TREES ARE ESTIMATED AND ARE TO BE CHECKED & CONFIRMED ON SITE. ALL WORK TO BE CARRIED OUT & SUPERVISED BY COMPETENT OPERATIVES DUE TO SURVEY LIMITATIONS EXISTING JOIST SPANS ASSUMED UNTIL CONFIRMED ON SITE. ALL WALLS & PARTITIONS TO BE CONSIDERED LOADBEARING UNTIL CONFIRMED ON SITE. ALL EXISTING CONCRETE TO BE CONFIRMED ON SITE. OTHERWISE, MUST BE CONFIRMED BEFORE ANY WORK COMMENCES. IF STRUCTURAL ENGINEERS DESIGN RELATING TO STRUCTURAL ELEMENTS OVERLAPS THIS DRAWING, THE DESIGNER'S DRAWING IS TO BE FOLLOWED. THIS DRAWING IS FOR PLANNING & BUILDING REGULATION APPLICATION PURPOSES ONLY. BUILDER/CLIENT TO APPOINT CDM CONSULTANT TO ENSURE WORK IS CONDUCTED IN ACCORDANCE WITH CDM REGULATIONS. SINCE WE HAVE NO ACCESS TO THE DEEDS OF THE PROPERTY IT IS THE RESPONSIBILITY OF THE CLIENT TO ENSURE THAT THE WORKS DO NOT CONTRAVENE ANY RESTRICTIVE COVENANTS CONTAINED IN THE DEEDS