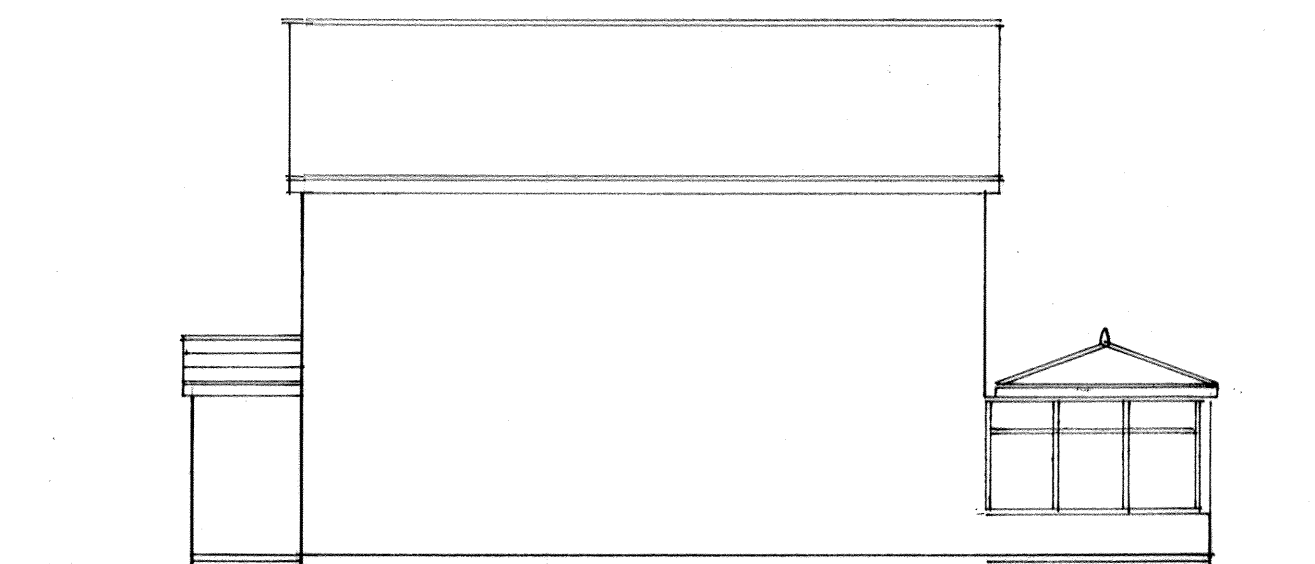


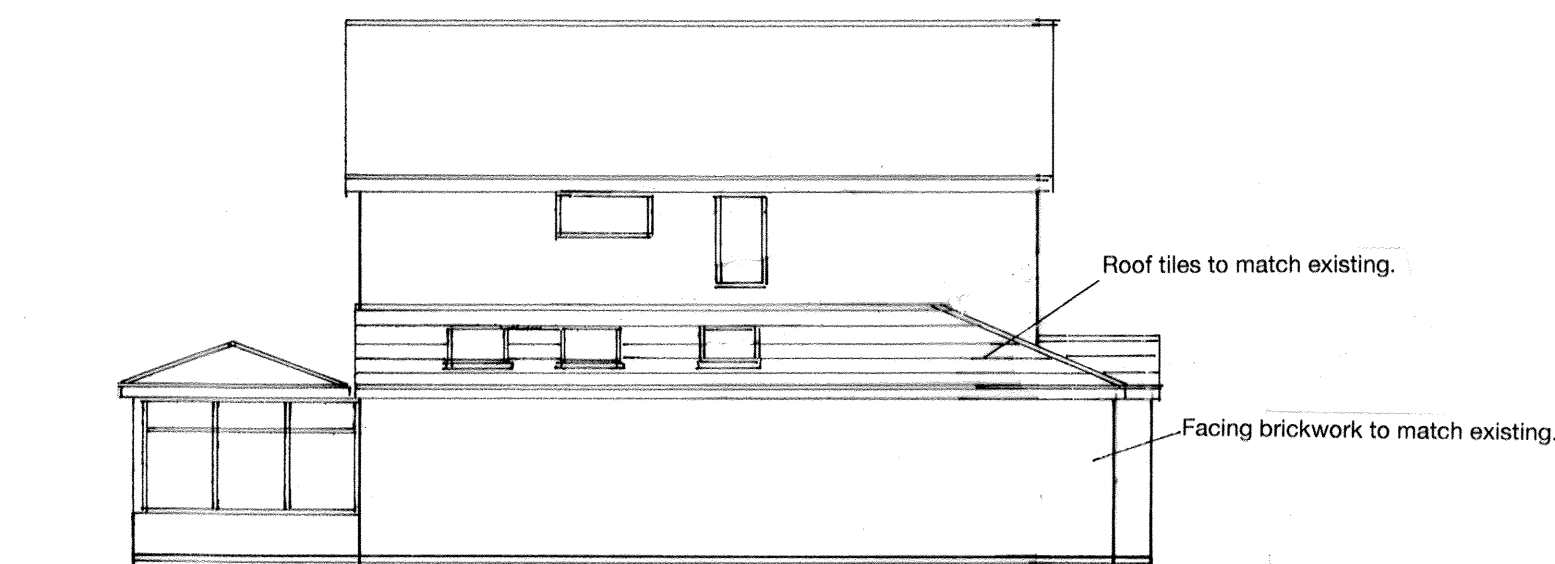


west



south

1 : 100



east

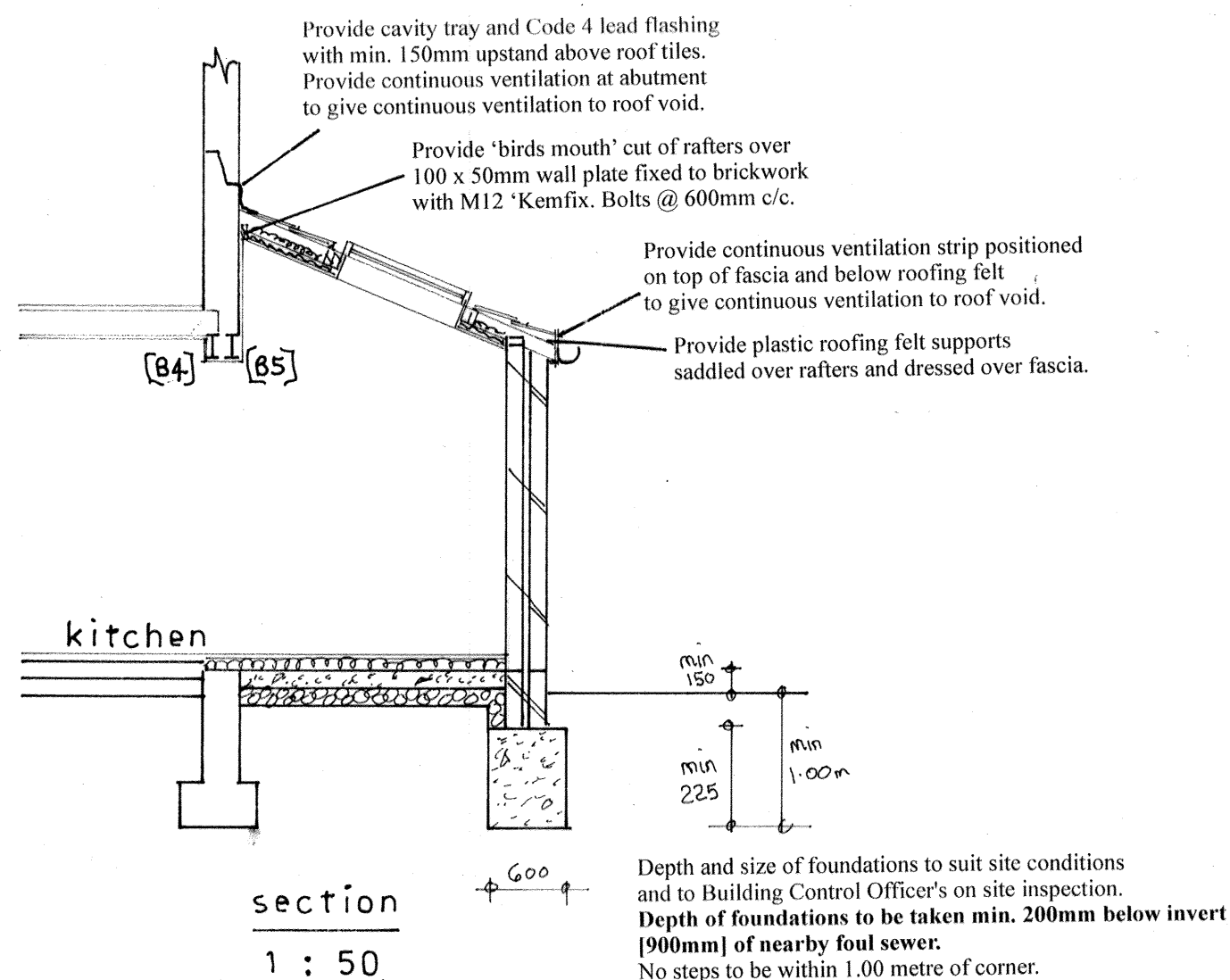
SPECIFICATION:-

LEAN-TO ROOF:- 'Redland' Mini Stonewold concrete interlocking tiles on 50 x 25mm sawn treated battens on 'Tyvec' OR similar breather felt to BS747 on 125 x 50mm C.16 rafters [R1] @ 400mm c/c. with 'birds mouth' cut over wall plate AND 100 x 50mm timber bearer fixed to brickwork with M12 'Kemfix' bolts @ 600mm c/c. Install 3No 780 x 980mm rooflights with suitable tile flashing and 2No rafters spiked together [R2] to rooflight cheeks. All roof tiling to be carried out to BS5534:2014. with all tiles mechanically fixed to battens, damp proof membrane over hip.

Provide GA3100 'Celotex' insulation laid between rafters to sloping areas with 25mm batten fixed to underside of rafters to provide min. 50mm air gap between insulation and roofing felt and TB3045mm 'Celotex' [0.18W/m2K] fixed continuously to underside of battens and 12.5mm plbd. and set coat over.

HALL ROOF:- 'Redland' Mini Stonewold concrete interlocking tiles on 50 x 25mm sawn treated battens on 'Tyvec' OR similar breather felt to BS747 on 125 x 50mm C.16 rafters [R1] @ 400mm c/c. with designed 2No 170 x 50mm spiked together hip rafter [H1] and 200 x 25mm ridgeboard. All roof tiling to be carried out to BS5534:2014. with all tiles mechanically fixed to battens, damp proof membrane over ridge and hips plus a dry-fix ridge installation.

300mm fibreglass with 150mm laid between joists and 150mm laid over joists to 100 x 50mm ceilings joists to 12.5mm plbd. and set coat.



section

1 : 50

WALLS:- Below G.L. cavity construction of 'Thermalite' standard blwk. OR Class A dense conc. blwk. Lean mix concrete cavity fill to min. 225mm below d.p.c. Above G.L. outer skin of facing brickwork to match existing, 100mm cavity filled with 'Dritherm 37' fibreglass cavity wall batts [0.25W/m2K] and inner skin of 100mm 'Thermalite' Turbo blwk. dry-lined with 12.5mm plbd. and set coat.. New and existing cavities to run continuously. Stainless steel wall ties @ 750mm horz., 450mm vertical and 225mm c/c. at reveals. 'Catnic' lintels OR similar over openings with upvc insulated cavity closers at reveals. Bed 100mm horz. d.p.c. min. 150mm above G.L. Bed 100 x 50mm wall plate tied to blwk. with 32 x 6mm galv. m.s. straps @ 1800mm c/c. **Provide 900 x 100mm pier [WI] in min. 7.3MN/m2 blockwork in 1:1:6 mortar and block bonded into existing inner leaf of cavity wall.**

FLOOR:- 70mm screed OR 22mm t & g water resistant chipboard with fully glued joints on GA3080 'Celotex' [0.20W/m2K] on 3 coats of 'Cementone' water based d.p.m. on 100mm concrete [Gen1] oversite slab on well compacted hardcore OR rejects. Provide positive link between d.p.m. and new and existing d.p.c's. **ADJUST HEIGHT OF OVERSITE SLAB TO ENSURE THAT FLOOR LEVELS RUN CONTINUOUS WITH EXISTING SOLID FLOOR.** Provide 600mm wide A142 reinforcement mesh in oversite slab over foul drains.

FOUL DRAINAGE:- Remove existing inspection chamber and adapt existing foul drainage layout 38mm dia. p.v.c wastes with 75mm deep seal anti-vac traps and rodding eyes to new back inlet gully. All plumbing to BS5572. Gully connected to 100mm dia. 'Osma' underground drainage pipe laid to 1:40 falls with 100mm bed and surround of 10mm peashingle and connected to inspection chamber. Provide concrete lintels over foul drains OR provide sleeves around pipes where pass through foundations.

STORMWATER DRAINAGE:- 100mm dia h.r. pvc gutters to 65mm downpipes to 100mm dia. 'Osma' underground pipe laid to 1:40 falls with 100mm bed and surround of 10mm peashingle to GEO lined cellular soakaways min. 1 cubic metre per 20 sq.metres of roof area below invert and min. 5.00 metres from building.

VENTILATION:- Provide min. 1/20th floor area ventilation to all habitable rooms. Provide background ventilation with 2500 sq.mm trickle vents to non-habitable rooms fitted into heads of window frames and rooflights. Provide ventilation in existing cloakroom and new utility room with mechanical extractors with min. 20 litres/sec extraction, 20 minute overrun and ducted to outside air. Provide additional ventilation in kitchen with cooker hood to give min. 30 litres/sec extraction and ducted to outside air.

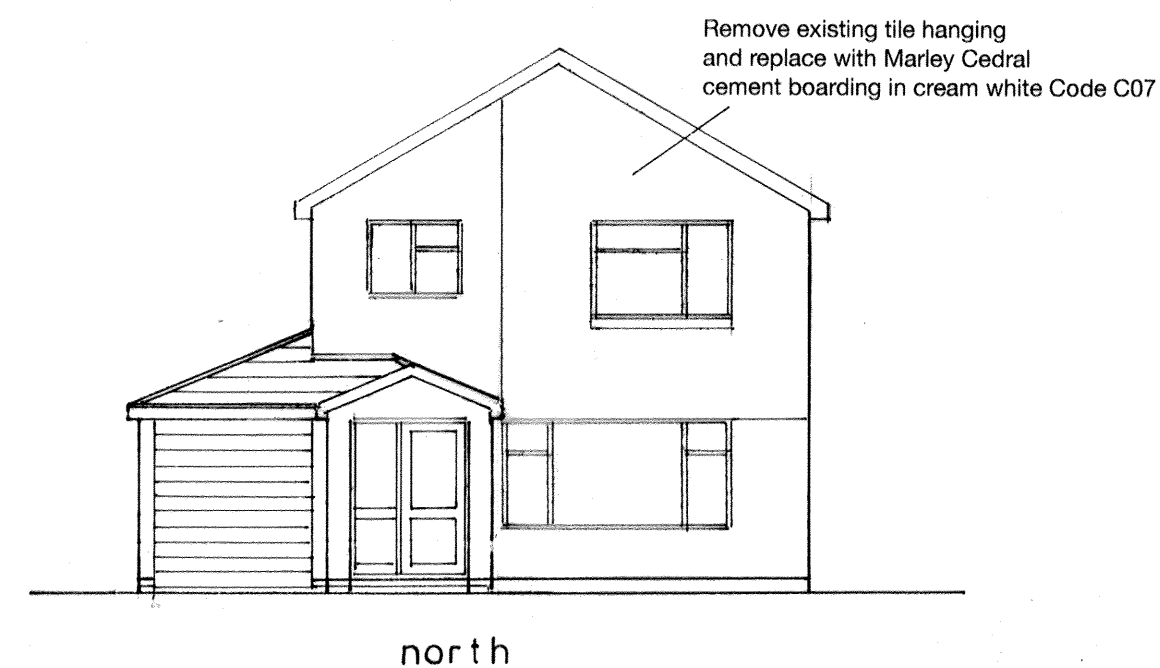
GLAZING:- Provide double glazed argon gas filled sealed units with toughened glass in external door and in any positions less than 800mm above FFL. Provide 'Kappafloat' glass to all windows to give 1.60Wm2K. All glazing to comply with BS 6206.

HEATING:- Extend fully pumped central heating system with thermostatic radiator valves in accordance with the Domestic Heating Compliance Guide 2010.

ELECTRICAL:- Provide 75% Energy efficient light fittings to both new and replacements with min. 45 lumens per circuit watt.. All electrical work to be installed, inspected and tested by NEC Registered Electrician including provision of BS7671 electrical installation certificate. Provide heat detector in kitchen fitted into smoke detector circuit.

SMOKE DETECTORS:- Provide mains operated smoke detectors fitted into single electrical independent circuit with the activation of one alarm triggering all other alarms positioned max. 7.50 metres from lounge and 3.00 metres from bedrooms. Detectors to be installed min. 300mm from walls and light fittings.

STEEL BEAMS:- Provide 30 minutes fire protection to exposed steel beams with 12.5mm fireline plbd.



north

sheet 2 a of 2

Proposed

PROPOSED SINGLE STOREY EXTENSION AT 36, BURSLEDON CLOSE, FELPHAM FOR MR. & MRS. R. ARNELL - SMITH

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