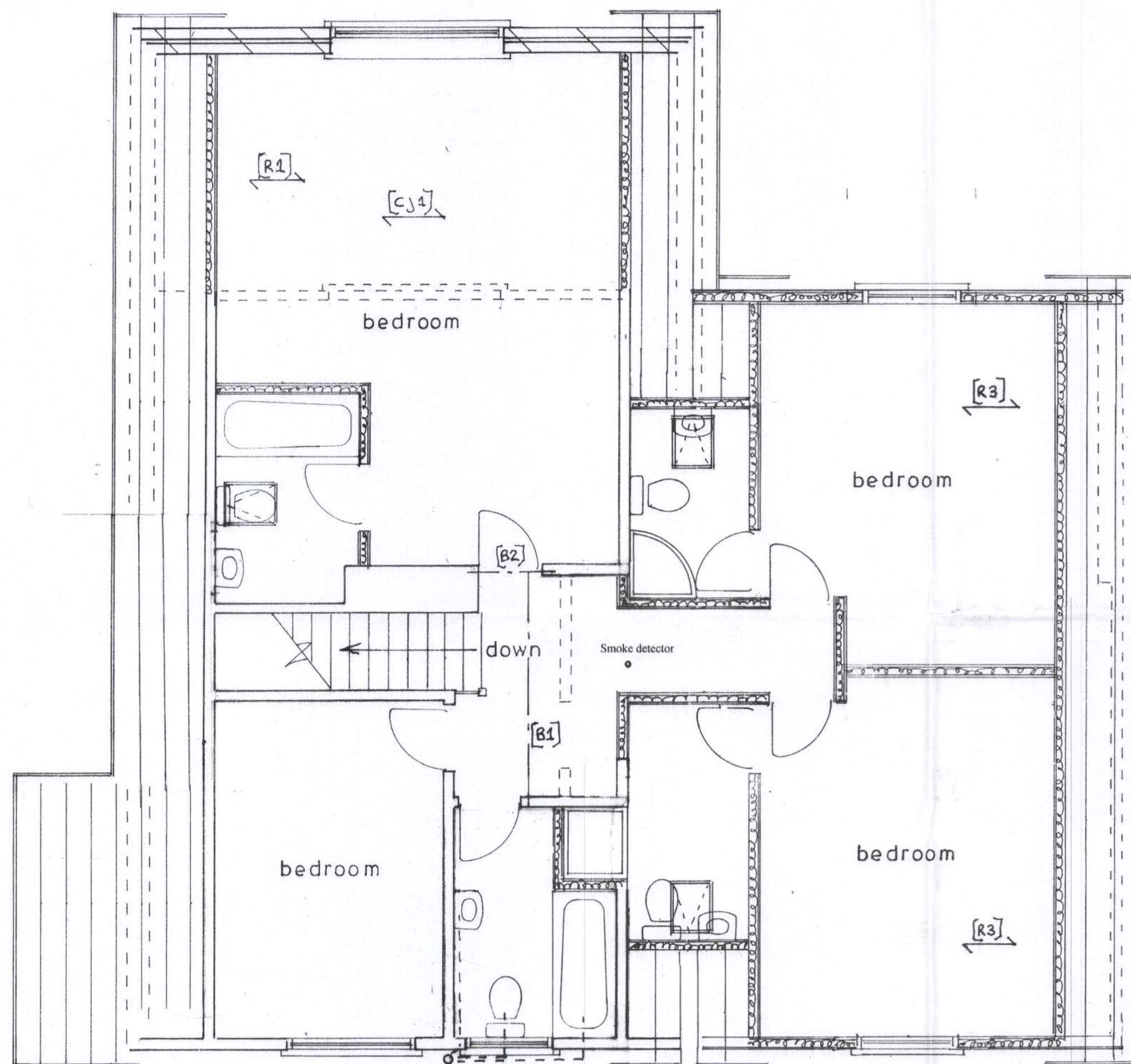




1st floor plan

1 : 50

Proposed

PROPOSED TWO STOREY EXTENSION AT 120, MIDDLETON ROAD, MIDDLETON-ON-SEA FOR MR. D. BROWN.

- [R1] 150 x 50mm C.16 rafters @ 400mm c/c.
- [R2] 100 x 50mm C.16 rafters @ 400mm c/c.
- [R3] 150 x 50mm C.16 rafters @ 400mm c/c.

- [CJ1] 150 x 50mm C.16 ceiling joists @ 400mm c/c.

- [F1] 170 x 50mm C.16 floor joists @ 400mm c/c.
- [F2] 170 x 50mm C.16 floor joists @ 400mm c/c.

- [B1] 2No 200 x 50mm C.24 timbers spiked together with min. 100mm bearing on [B2] AND to 2No studs spiked together and braced within studwork.
- [B2] 2No 150 x 50mm C.16 timbers spiked together bearing on 2No studs spiked together.
- [B3] 152 x 89 x UB16 bearing on 150 x 100 x 10mm thick m.s. plate AND connected to [B14] with 2No M16 bolts.
- [B4] Min. 2No 150 x 50mm C.16 timbers spiked together.
- [B5] 2No 170 x 50mm C.16 timbers spiked together supporting [B4] with galv. jiffy joist hanger.
- [B6] 2No 170 x 50mm C.16 timbers spiked together supporting [B4] with galv. jiffy joist hanger.
- [B7] 152 x 89 x UB16 bearing on 150 x 100 x 10mm thick m.s. plate AND connected to [B8A] with 2No M16 bolts through 10mm angle cleats welded to beam..
- [B8] 152 x 89 x UB16 connected to [B9] with 2No M16 bolts through 12mm thick m.s. angle cleats welded to beam AND connected to [B10] with 2No M16 bolts.
- [B8A] 152 x 89 x UB16 bearing on 225 x 100 x 12mm thick m.s. plates AND connected to [B9]'s with 2No M16 bolts through 10mm angle cleats welded to beams.
- [B9] 203 x 146 x UB37 bearing on 225 x 100 x 12mm thick m.s. plates supporting [B8] & [B8A]'s as above.
- [B10] 305 x 165 x UB40 with 10mm plate stitch welded to underside of beam to support outer leaf of cavity wall with beam bearing a min. 225mm on to 440 x 100 x 220mm deep concrete padstones. Provide 10mm thick triangular stiffeners @ 900mm c/c. between beam and plate. Beam, plate and stiffeners to be fully galvanised. Provide cavity tray over beam with weep holes in vertical perp joints.
- [B11] 152 x 89 x UB16 bearing on 150 x 100 x 10mm thick m.s. plates.
- [B12]'s 2No 170 x 50mm C.16 timbers spiked together.
- [B14] 254 x 146 x UB37 with min. 150mm bearing on to 440 x 100 x 220mm deep concrete padstones.
- [B15] 254 x 146 x UB37 with min. 150mm bearing on to 440 x 100 x 220mm deep concrete padstones.

NOTE: [B14] & [B15] to be bolted together with M16 bolts @ 750mm c/c. and with suitable spacing pieces.

[W1] Provide 100 x 900mm pier below [B14] & [B15] in 7.3MN/m2 blocks in 1:1:6 mortar.

BEAMS TO BE INSTALLED AS PER SEPARATE STRUCTURAL CALCULATION SHEETS WITH ALL DETAILS AND BEAM SIZES DOUBLE CHECKED.

INSTALLATION OF BEAMS TO BE INSPECTED BY BUILDING CONTROL OFFICER.

BEAMS TO BE INSTALLED TO HEALTH AND SAFETY STANDARDS WITH ADEQUATE SUPPORT PROVIDED TO EXISTING STRUCTURE DURING INSTALLATION AND HEAVY DUTY LIFTING EQUIPMENT UTILISED FOR INSTALLATION OF HEAVY BEAMS.

PHYSICAL ON SITE MEASUREMENTS TO BE TAKEN PRIOR TO ORDERING OR FABRICATION OF BEAMS.

INSTALLATION OF BEAMS PRIOR TO FULL LOCAL AUTHORITY APPROVAL [NOT CONDITIONAL] CARRIED OUT AT CLIENTS/BUILDERS RISK.

NO CHANGES TO STRUCTURAL DESIGN TO BE CARRIED OUT BY CLIENTS OR BUILDERS UNTIL STRUCTURAL ENGINEER HAS DESIGNED ALTERATIONS AS THESE WILL REQUIRE REVISED CALCULATIONS FOR SUBMISSION TO COUNCIL FOR APPROVAL, WILL CAUSE DELAYS TO BUILDING WORK AND WILL BE CHARGED APPROPRIATELY.

NO CALCULATIONS WILL BE FORTHCOMING TO BUILDER'S ASSUMED OR 'GUESSED' INSTALLED CHANGES TO DESIGN.

sheet 2b of 5

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