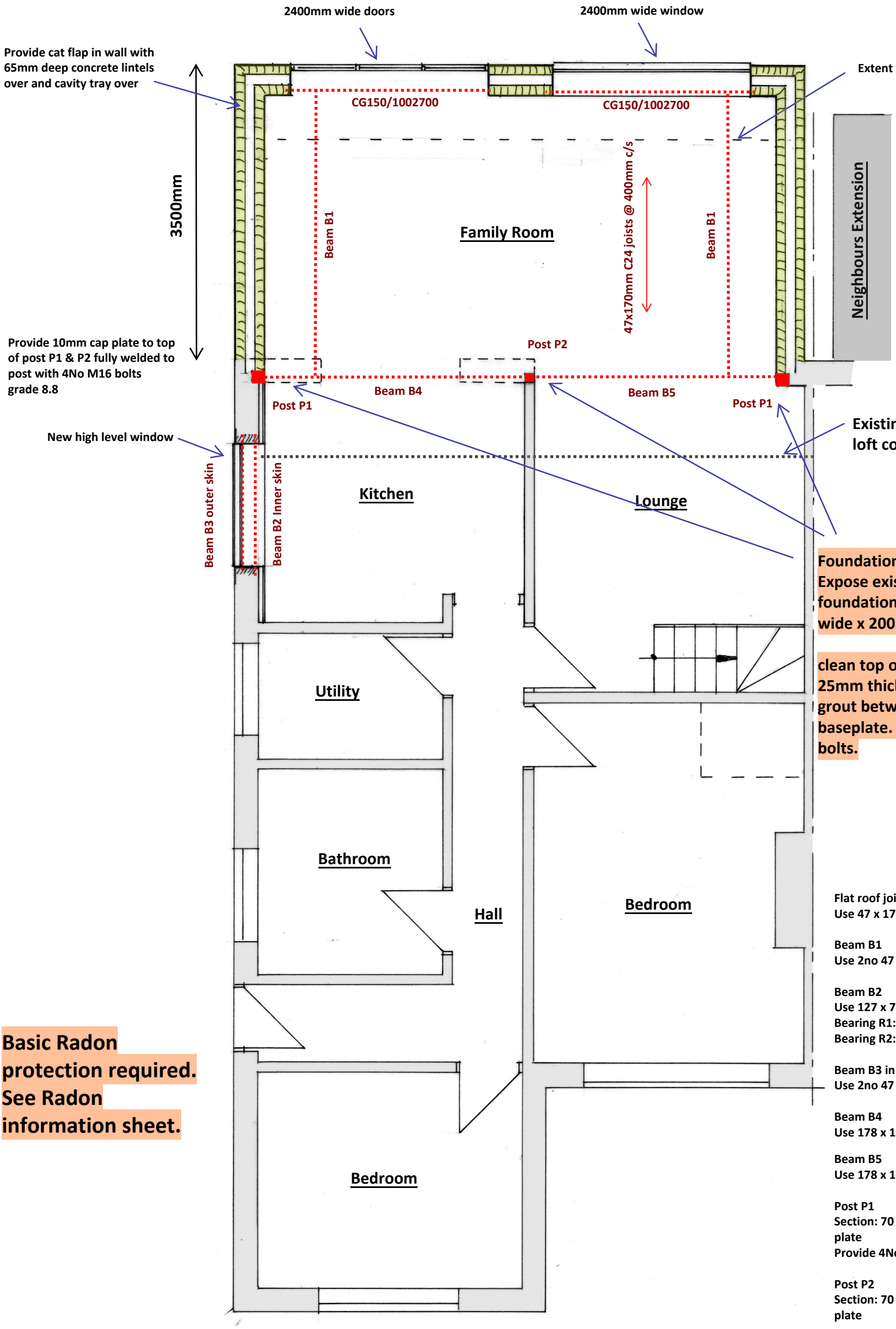
Plan 2 of 5



Foundation requirement for Post P1 & P2
Expose existing foundation. Existing foundation to be a minimum 400mm wide x 200mm thick.

clean top of foundation and provide min 25mm thick non shrinkable proprietary grout between foundation and baseplate. Use 4No M16 holding down bolts.

Basic Radon protection required. See Radon information sheet.

Proposed Ground Floor Plan 1:50

Flat roof joists @ 400mm c/s
Use 47 x 170 C24

Beam B1
Use 2no 47 x 170 C24

Beam B2
Use 127 x 76 x 13 UKB S355
Bearing R1: 20 mm S275 bearing plate, size 300 x 100 mm
Bearing R2: 20 mm S275 bearing plate, size 300 x 100 mm

Beam B3 in outer skin
Use 2no 47 x 145 C24

Beam B4
Use 178 x 102 x 19 UKB S355

Beam B5
Use 178 x 102 x 19 UKB S355

Post P1
Section: 70 x 70 x 3.2 SHS Grade S355 on 250 x 250 x 10mm base plate
Provide 4No M16 holding down bolts to base plate.

Post P2
Section: 70 x 70 x 3.2 SHS Grade S355 on 100 x 300 x 10mm base plate

ensure existing foundation is minimum 400mm wide x 200mm deep onto suitable ground. 12/(0.7x0.375) = 45KN/m2 < 100

The property owner is required to serve a party structure notice on the adjoining owner as required by The Party Wall etc Act 1996.

If any discrepancies are found with the plans or structural calculations please contact S.Barrett prior to works continuing so amendments can be made before works progress too far.

Take on site measurements before ordering steel beams etc. Do not scale from the plan or use measurements shown in calculations

1:100

1:50 @ A3

cabe chartered association of building engineers

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