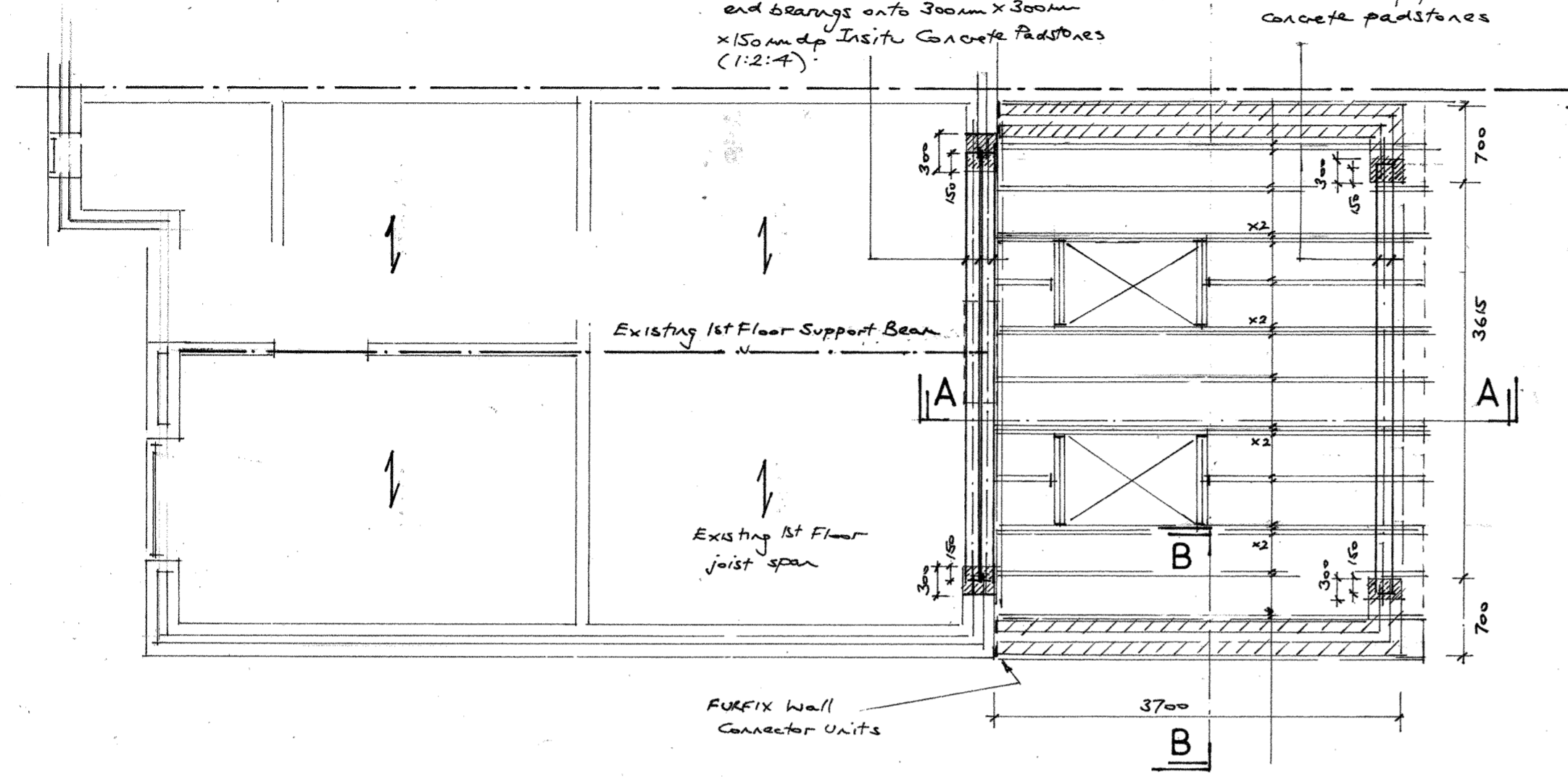


**SUPPORT BEAM**  
 2 No 203x133x30 kg/m UB's  
 Bolted together with M12  
 Grade B Bolts @ 750mm cts  
 through 48.3mm C4S spacer  
 tubes. Beams to have 150mm  
 end bearings onto 300mm x 300mm  
 x 150mm dp Insitu Concrete Padstones  
 (1:2:4).

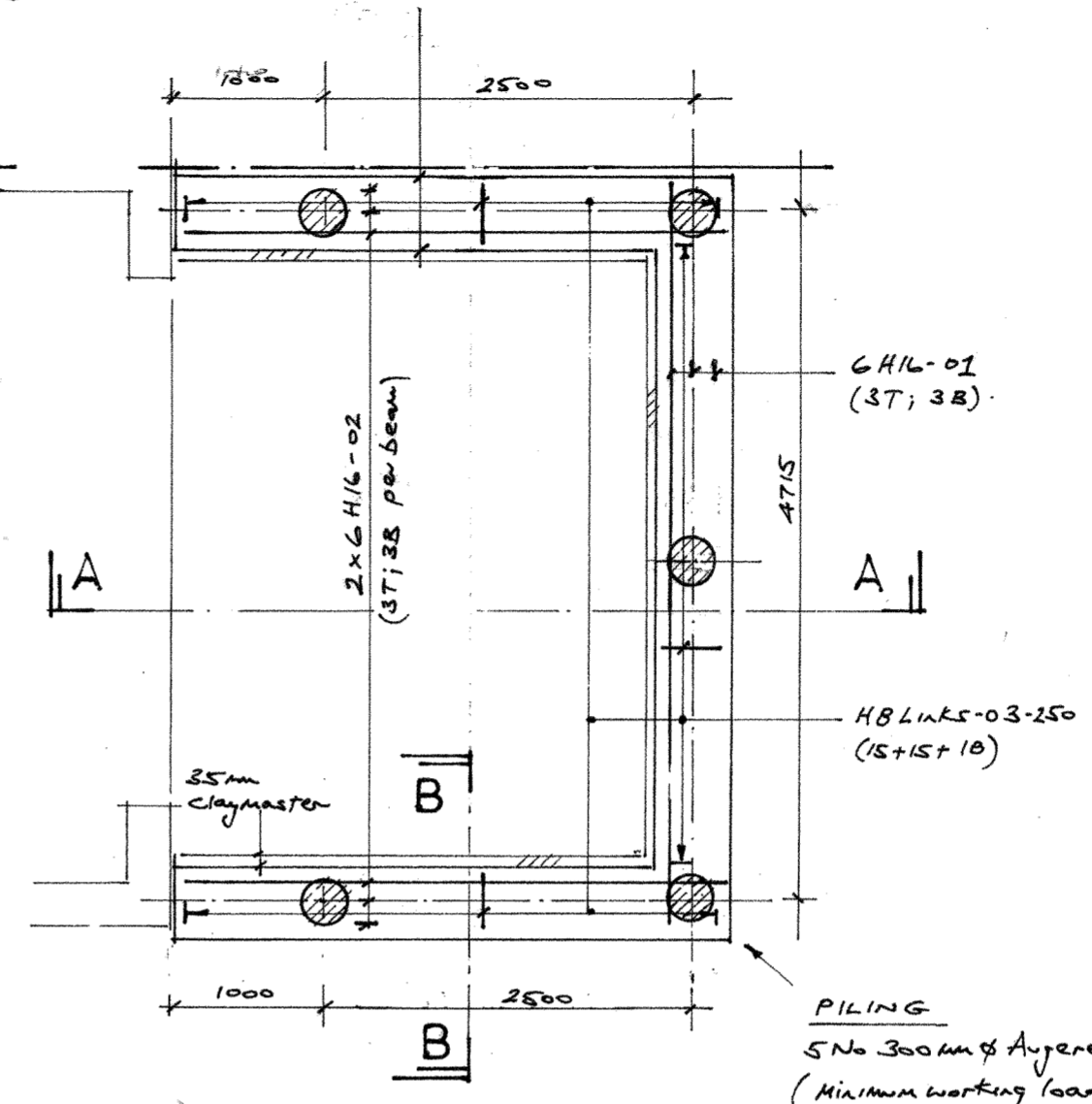
**LINTEL**  
 152x152x23 kg/m UC with  
 150mm end bearings onto  
 300mm lengths of 220mm wide  
 x 100mm deep precast  
 concrete padstones

**RC Ground BEAM**  
 500mm wide x 450mm dp  
 Grade RC35 Concrete



**GROUND FLOOR PLAN**  
 (indicating structure above) (1:50)

**RAFTERS**  
 47x150 C24's @ 400mm  
 doubled up either side  
 of Velux Windows

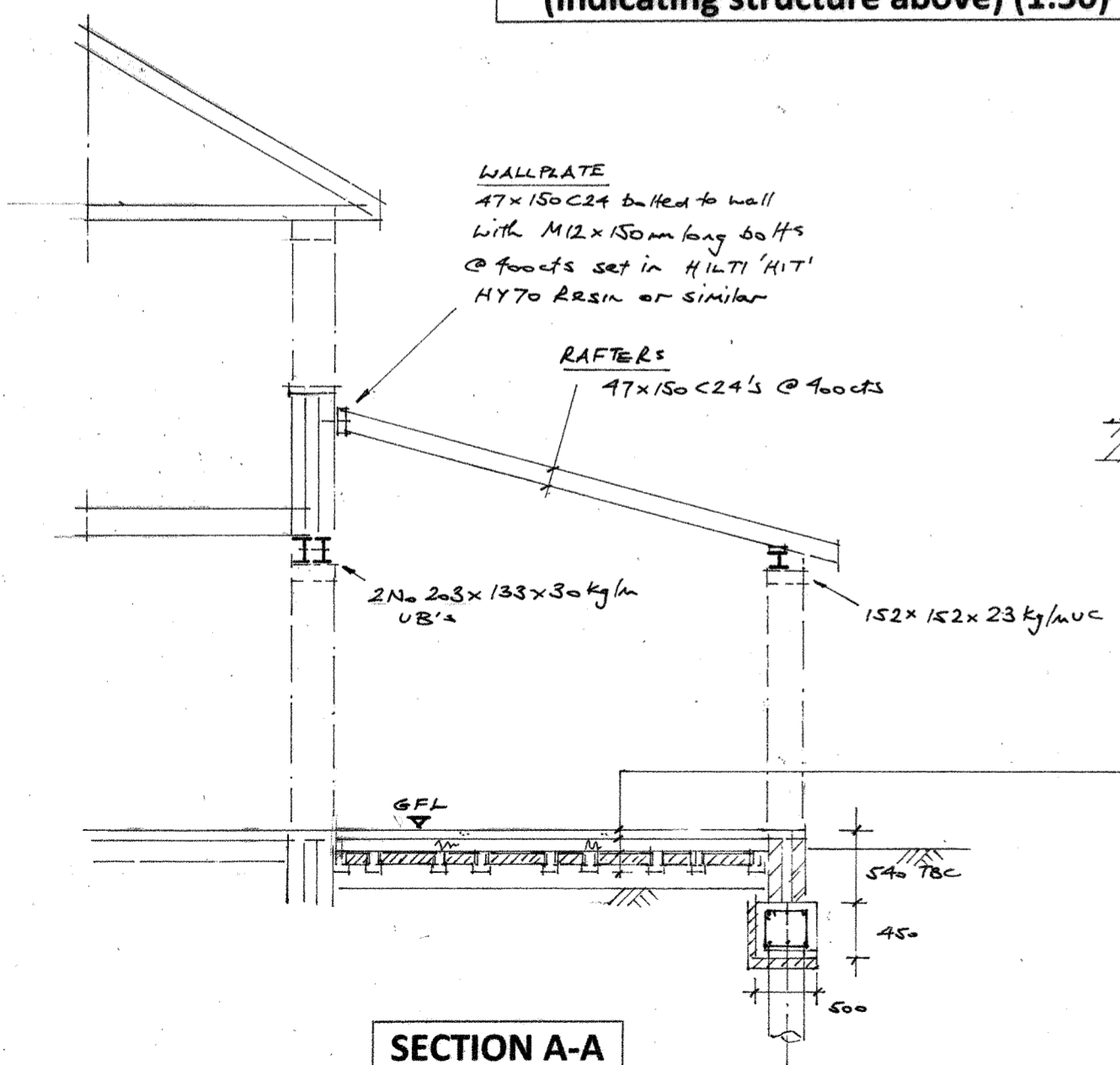


**PLAN ON PILES &  
 GROUND BEAMS (1:50)**

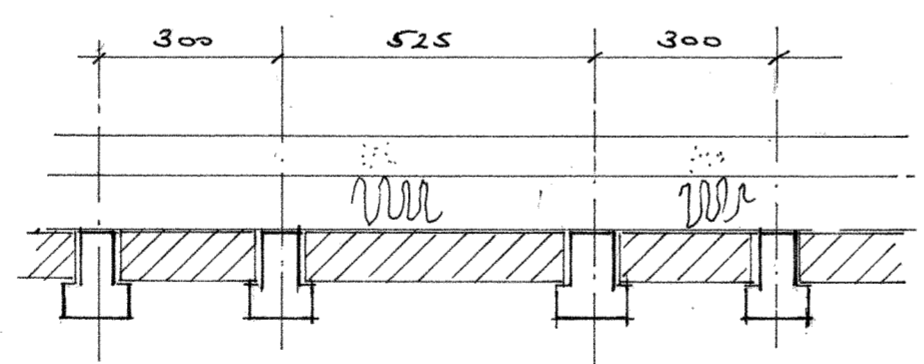
**PILING**  
 5 No 300mm Augered Piles  
 (Minimum working load 100kn)

**NOTES**

- This drawing is to read in conjunction with all current Architects drawings.
- DO NOT SCALE FROM THIS DRAWING.** All dimensions to be by site measurement.
- Any discrepancies discovered on site that would alter details indicated on this drawing to be brought to the attention of M A Howard Associates Ltd for further instruction.
- PILING** - 5 No x 300mm Augered Piles of 100 KN Minimum Working Capacity
- CONCRETE** - Concrete to be supplied and delivered in accordance with BS8500. Designated well vibrated concrete Grade RC35 for Ground Beams. Site mixed for insitu padstones can be 1:2:4 cement/sand/10mm Agg.
- TIMBER** - all timber to be minimum grade C24 unless stated otherwise and in accordance with BS5267:Part 2 "Structural Use of Timber"
- STEELWORK** - all steelwork to be grade S355 blast cleaned in accordance with clause 720 of BS7079 part A1, preparation grade SA2.5, shop primed with high build zinc phosphate primer (dft 75microns).



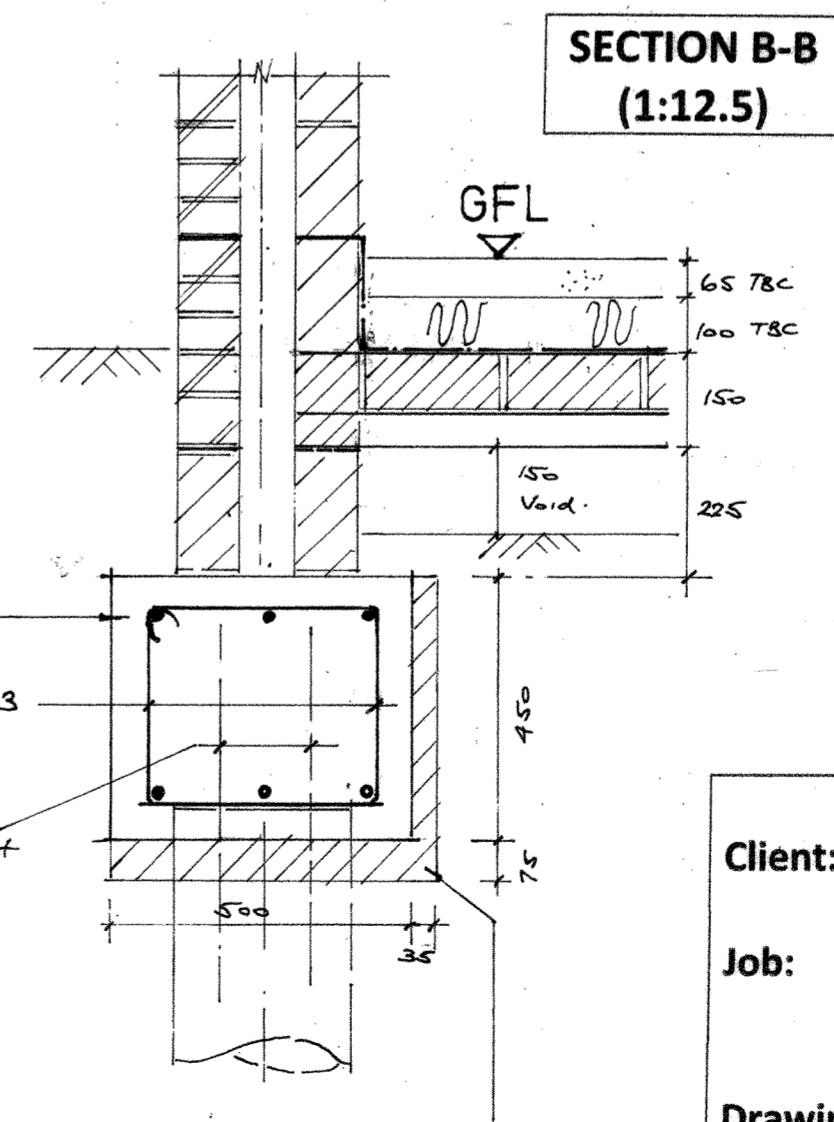
**SECTION A-A**  
 (1:50)



**Hanson Beam/Block Floor Type TJ2**  
 consisting of 150mm dp prestressed  
 concrete T Beams + dense infill blocks  
 or equivalent to support the following  
 design loading:- Finishes: 1.6kn/m<sup>2</sup>  
 Imposed: 1.5 kn/m<sup>2</sup>

**BEAM/BLOCK FLOOR  
 SPECIFICATION (1:12.5)**

Finishes  
 to Architects  
 specification



**SECTION B-B**  
 (1:12.5)

Pile reinforcement  
 to have top  
 anchorage into  
 ground beams.

**CLAYMASTER** Compressible expanded  
 polystyrene board for protection against  
 clay heave. 75mm to underside x 35mm to  
 inside face of ground beam.

**M. A. HOWARD ASSOCIATES LTD**  
 Consulting Civil & Structural Engineers

188, Bedminster Down Road  
 BRISTOL, BS13 7AF

Tel (0117) 949 6749  
 e-mail: mark@mahoward.co.uk

**Client:** PETER CAMPBELL

**Job:** 5, GIFFORDS PLACE, BISHOPSWORTH,  
 BRISTOL BS13 7GP - Proposed Extension.

**Drawing Title:** STRUCTURAL WORKS

**Drawing No:** 52959/1 **Oct 2015**