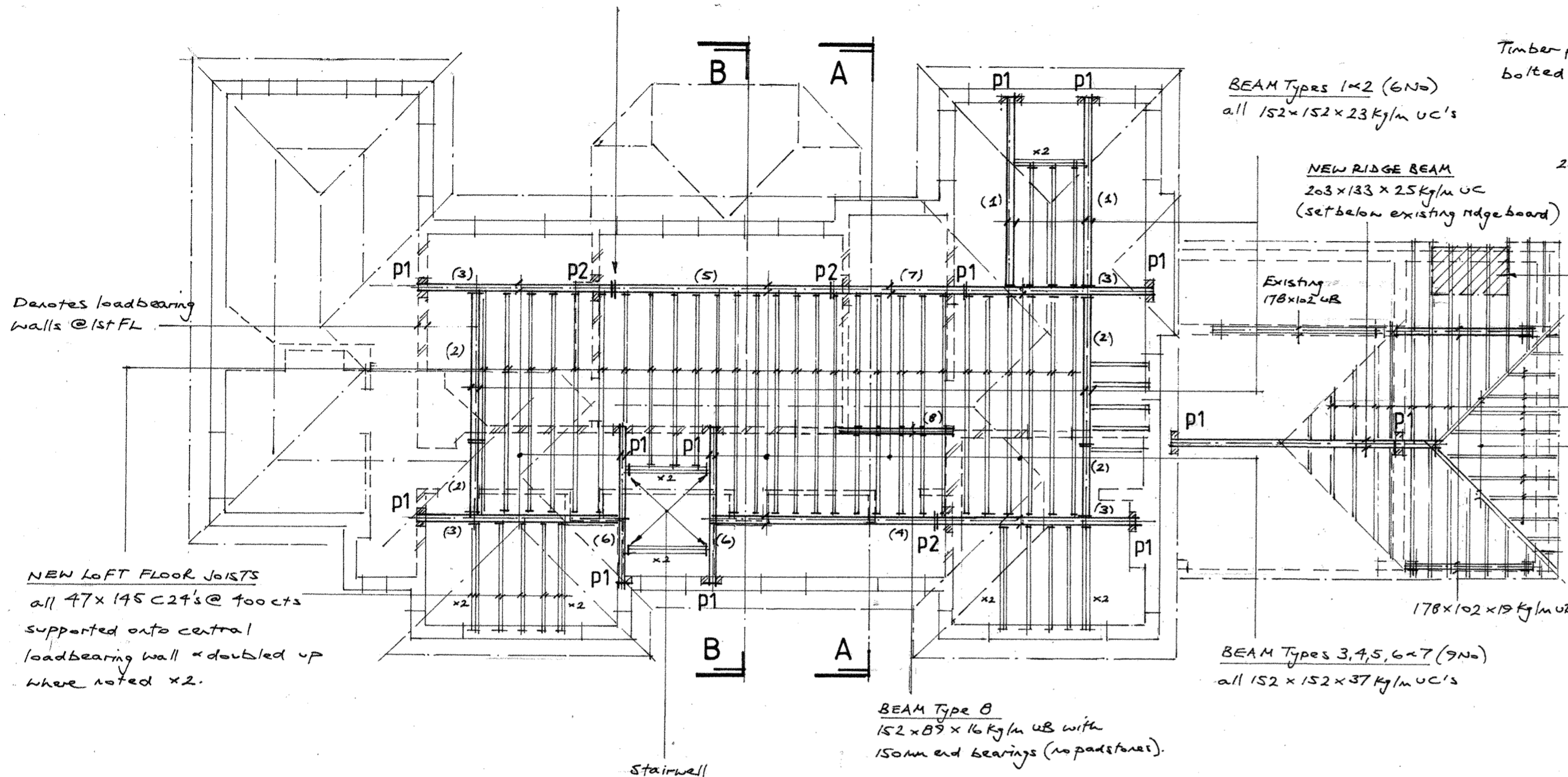


**PLAN ON NEW 2<sup>nd</sup> FLOOR  
(1:100)**

**BEAM SPLICES**  
all to consist of 10mm thick MS  
End plates + 4 No M16  
Grade 8.8 Bolts

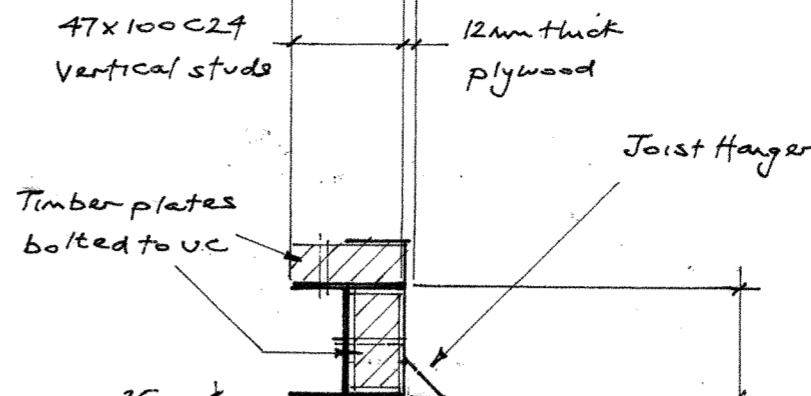


Denotes loadbearing walls @ 1st FL

**NEW LOFT FLOOR JOISTS**  
all 47x145 C24's @ 400 cts  
supported onto central loadbearing wall & doubled up where noted x2.

**BEAM Type B**  
152x89x16kg/m UB with 150mm end bearings (no padstones).

**DETAIL A (1:10)**



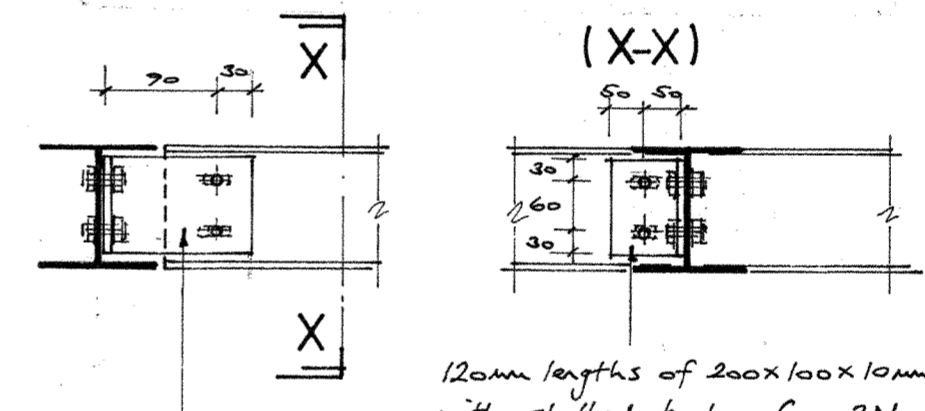
**BEAM Types 1 & 2 (6 No)**  
all 152x152x23kg/m UC's

**NEW RIDGE BEAM**  
203x133x25kg/m UC (set below existing ridge board)

**NEW RAFTERS**  
47x100 C24's @ 400 cts  
**NEW HIP RAFTERS**  
47x220x24's

**NOTE:**  
For Flat Roof Dormer over Entrance Door see Architects Dwg Nos MLN 2787.02C & 03

**BEAM/BEAM TYPICAL CONNECTION DETAIL  
(Note: Steel fabricator can suggest alternative)**



120mm lengths of 200x100x10mm VEA with slotted holes for 2 No M16 Grade 8.8 Bolts per leg.

Upper Purlins removed

**RAFTERS**  
All existing 50x100 Rafters doubled up either side of Velux windows & battered out to Architects details

**CEILING TIES**  
47x150 C24's @ 400 cts bolted to existing rafters with M12 Coach bolts & washerplates. (installed prior to purlins being removed).

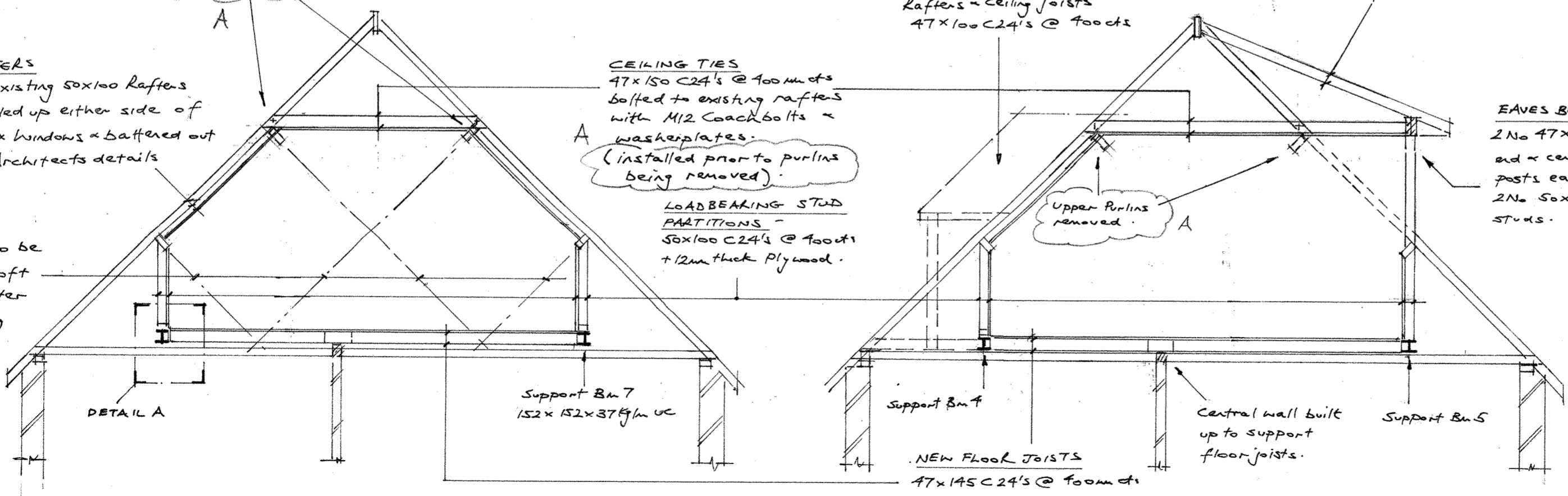
**LOADBEARING STUD PARTITIONS**  
50x100 C24's @ 400 cts + 12mm thick Plywood.

**STAIRWELL DORMER**  
Ridge & Hips: 47x145 C24's  
Rafters = ceiling joists  
47x100 C24's @ 400 cts

**CATSLIDE DORMER**  
Rafters 47x125 C24's @ 400 cts

**EAVES BEAM**  
2 No 47x195 C24's with end & central support posts each consisting of 2 No 50x100 C24 vertical studs.

**NOTE:**  
Diagonal purlin props to be removed after new left floor structure, perimeter stud partition & ceiling ties installed.



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

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

**NOTES**

1.0	This drawing is to read in conjunction with all current Architects drawings and specifications.
2.0	<b>DO NOT SCALE FROM THIS DRAWING.</b> All dimensions to be as per Architects drawings or by site measurement.
3.0	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.
4.0	The Main Contractor is responsible for the design and installation of any temporary support works required to maintain the integrity and stability of the building throughout the works.
5.0	<b>PADSTONES</b> - P1 - either 300mm x 100mm x 150mm deep precast concrete or 300mm x 100mm x 15mm thick Mild Steel Plate. P2 - either 450mm x 100mm x 150mm deep precast concrete or 300mm x 100mm x 15mm thick Mild Steel Plate.
6.0	<b>TIMBER</b> - all timber to be minimum grade C24 unless stated otherwise and in accordance with BS5267:Part 2 "Structural Use of Timber"
7.0	<b>STEELWORK</b> - all steelwork to be grade S275 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).

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A Nov '14 Minor Revisions for Tender

**Client:** MR & MRS MILNER

**Job:** No.7, COOKS FOLLY ROAD, SNEYD PARK, BRISTOL BS9 1PL - Proposed Alterations & Extension.

**Drawing Title:** STRUCTURAL WORKS

**Drawing No:** 32802/1 A August 2014