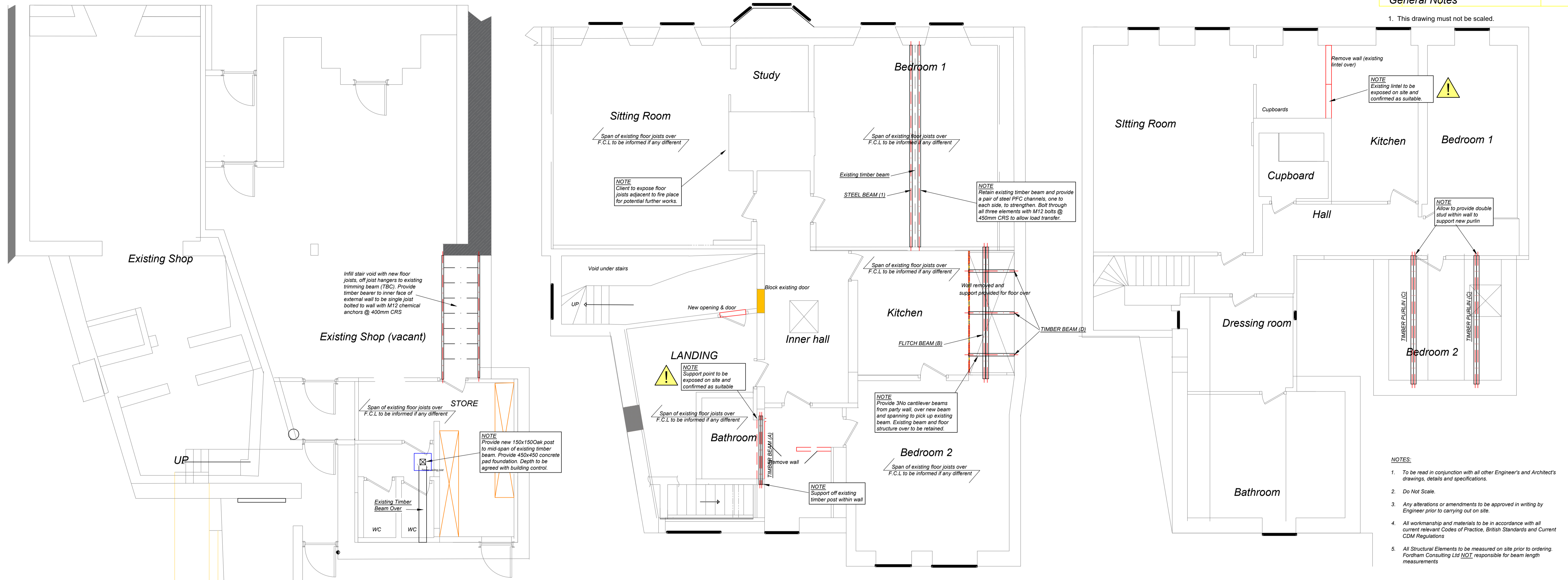


1. This drawing must not be scaled.



- NOTES:**
- To be read in conjunction with all other Engineer's and Architect's drawings, details and specifications.
 - Do Not Scale.
 - Any alterations or amendments to be approved in writing by Engineer prior to carrying out on site.
 - All workmanship and materials to be in accordance with all current relevant Codes of Practice, British Standards and Current CDM Regulations.
 - All Structural Elements to be measured on site prior to ordering. Fortham Consulting Ltd NOT responsible for beam length measurements.

Ground Floor Plan
(Showing Structure Over)
Scale 1:50

First Floor Plan
(Showing Structure Over)
Scale 1:50

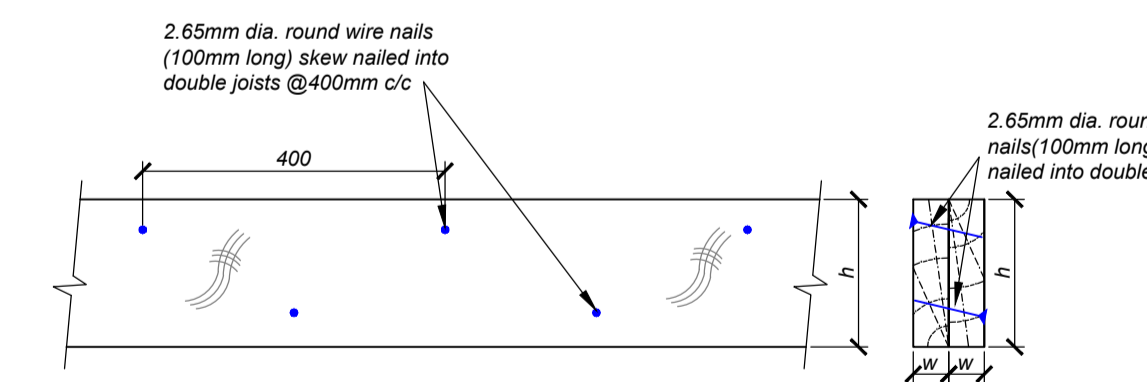
Second Floor Plan
(Showing Structure Over)
Scale 1:50

Preliminary Issue For Discussion and Pricing Only. Not For Construction

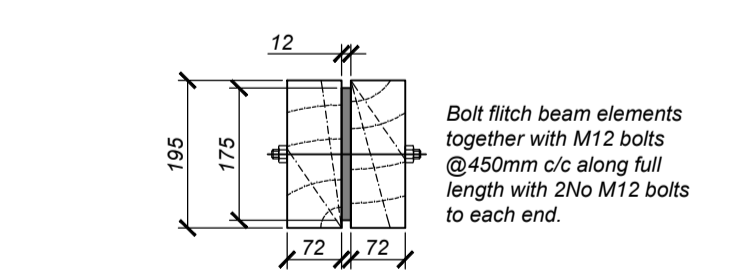
FCL does not act as Principal Designer. See calculations for DRA sheets.

No works to commence on site until contractor's RAMS has been prepared.

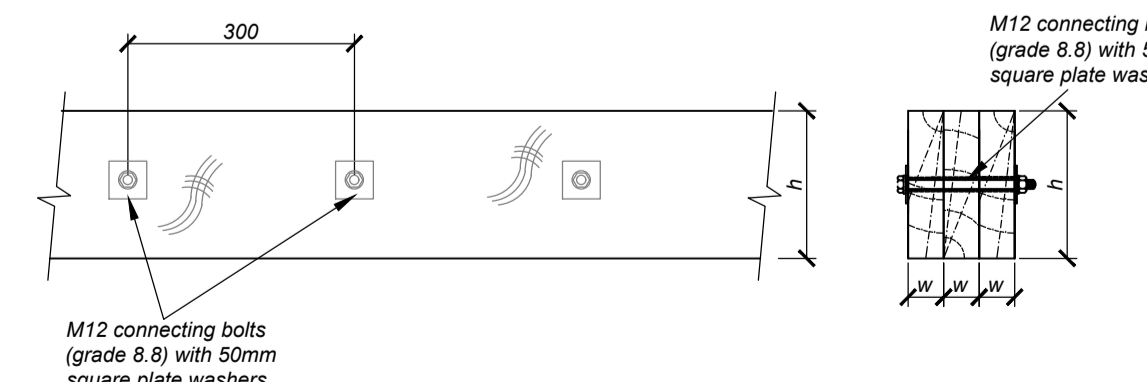
Ground Floor Plan
(Showing Structure Over)
Scale 1:50



Detail 1 - Typical Double Joist Connection
Scale 1:10



Detail 3 - Flitch Beam (B)
Scale: 1:10



Detail 2 - Typical Triple Joist Connection
Scale: 1:10

STEELWORK SCHEDULE				
REF. No.	SECTION	* ACTUAL SIZE		WEIGHT (Kg/m)
		DEPTH	WIDTH	
BEAM 1	2No 150 x 90 PFC 24	150	90	23.9

* TO NEAREST mm.

TIMBER SCHEDULE			
REF.	TIMBER SECTION	* ACTUAL SIZE	
		DEPTH	WIDTH
FLOOR JOISTS (FR1)	47 x 145mm C16 Joists @ 400mm CRS	145	47
TIMBER BEAM (A)	3No 47 x 170mm C24 Joists	170	47
FLITCH BEAM (B)	2No 72 x 195mm C24 Joists + 1No 12 x 175mm steel flitch plate	195	72
TIMBER PURLIN (C)	2No 72 x 170mm C24 Joists	170	72
TIMBER BEAM (D)	3No 47 x 170mm C24 Joists	170	47

* TO NEAREST mm.

Temporary Works Notes:

It is the responsibility of the main contractor to consider the need for temporary works - props, shores, bracing, needles etc - to provide suitable temporary works where required; maintain the integrity of the existing structure and temporary support throughout the duration of the project; and appoint a temporary works Engineer if deemed necessary.

All temporary works shall be supported and braced off suitable foundations; no temporary works are to be supported or bear directly or indirectly off suspended floors or suspended structural elements - without the provision of secondary back propping through to a suitable foundation - or provision of structural calculations to justify structure.

- Note: F.C.L. to be notified if assumed joist spans are any different prior to ordering of Steel Beams.
- Note: Beam to be installed in accordance with current CDM regulations.
- Note: All beams to be measured on site prior to ordering of Steels/Limits.

- STEELWORK DETAILS**
- Steelwork Contractor/fabricator is required to check all the relevant site dimensions prior to fabrication. Any discrepancies to be reported to F.C.L.
 - Steelwork Erection and fabrication to comply fully with BS5950
 - Where the Steelwork fabricator is not CE accredited, the fabricator should confirm with the client that this is not a requirement of the proposed project.
 - All Steelwork designed for Grade S355 unless noted otherwise. All flat plates designed for Grade S275 Steelwork (U.N.O) all in accordance with BS EN 10025.
 - All Steelwork connections are to be designed to suit BS5950 by the Steel fabricator unless shown on F.C.L. Details.
 - All Welds are to be a minimum of 6mm CFW unless noted otherwise. Welded shelf angles/plates are to be welded to the steelwork with 150mm hit, 150mm miss intermediate welds (U.N.O).
 - All Bolts are to be designed to be minimum Grade 8.8.
 - Where Steelwork supporting floor loading over, the contractor is to ensure that the Steelwork has a minimum of 5 hr fire protection around it using intumescent paint or two layers of plasterboard. All steelwork is also to be coated using an appropriate protective paint. Steelwork above ground to be finished to give correct fire rating to current building regulations. All external/exposed steelwork to be galvanised. Generally steelwork to be finished with zinc phosphate primer.
 - All Steel Beams are to bear 150mm where possible or a minimum of 100mm (U.N.O) onto a Concrete Padstone (padstones to be minimum 21.0N/mm² concrete) /Steel bearing plate or Engineering brick bearing as shown on the drawing.
 - The contractor is to ensure all dead loads are in place prior to the installation of glazing. The glazing supplier is to design to accommodate live load deflections of span/360 or as noted on the drawings.
 - Eccentrically loaded beams to have ends fully built in prior to floor/wall loading from above.
 - Temporary propping may be required where eccentric loads occur. If in any doubt please contact F.C.L.
 - Longer beams may require splicing to enable safe handling - F.C.L. to be contacted should splice connection be required. Site measurements to be taken by contractor prior to ordering of steel.

- TIMBER DETAILS**
- All timber work to be carried out strictly in accordance with BS 5268
 - All Timber to be a min. grade C16 unless noted otherwise
 - All proposed new Timber is to be treated to suit current AHBC Requirements.
 - All Nails are to be in accordance with BS 1202, all screws are to be in accordance with BS 1210 and wood glue is to conform with BS EN 204 strength grade D4.
 - Unless noted otherwise timber lintels, where required to be min 250x150mm C16.
 - All multiple timber elements to be bolted together with min M12 bolts @ 450mm c/c.
 - All Bolts to timber work are to be fitted with square plate washers as not to crush the timber elements under load.
 - All joist hangers, Lateral restraint straps, truss clips and fixings are to be installed strictly in accordance with the manufacturers recommendations.
 - Notching of floor joists should not be greater than 1/3 of the joist depth and checked with F.C.L. to confirm adequacy to do so.
 - Where lightweight Timber stud walls are over, the proposed floor joists are to be doubled (minimum) to form support and bolted with M12 Bolts at 450mm CRS.
 - Lateral restraint straps required to walls parallel to joists and timber roof spans. Straps to be at maximum 1.2m c/c apart and fixed to minimum of 3 No. joists. All straps installed to BS2668 & BS8103. Solid blocking to be used where joists are notched into steel beams. All joists to be doubled under partitions u.n.o. herringbone strutting/solid blocking required perpendicular to joist spans as follows:-
up to 2.5m span none required
2.5m - 4.5m span 1 row required mid span
over 4.5m span 2 rows required equally spaced

Rev.	Date	By	Description	App.

CDM REGULATIONS 2015
Member sizes and dimensions have been designed in order to satisfy the design requirements of the project. Contractor should be aware of risks associated with handling and installation of structure which cannot be removed at the design stage. Contractor must be suitably experienced in all aspects of handling and lifting. All temporary works must comply with current legislation.

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CLIENT
John Johnston

PROJECT
43-47 High Street, Newmarket

DRAWING TITLE
Proposed Plans - Not for construction

DRAWN BY	CHECKED BY	DATE	SCALE
DF		20/11/23	As Noted @ A1

PROJECT No.	DRAWING No.	REV
23-0906	[G] - 01	P2