

CONSTRUCTION NOTES

DO NOT SCALE DIMENSIONS FROM THIS DRAWING
(.pdf files of this drawing may not plot exactly to scale)

Refer to notes on all structural drawings.

These structural details are provided on the basis that the work will be carried out by an experienced contractor familiar with the general requirements of the Building Regulations and usual good building practice.

All setting out dimensions relating to any existing structures are to be verified by the contractor on site prior to ordering any materials.

Refer to Architect's drawings for detailed setting out dimensions.

Loadbearing Masonry to have minimum compressive strengths as follows unless noted otherwise:
Brickwork 10 N/sq mm Blockwork 3.6 N/sq mm
Blocks below ground to be min. 7.3N/sqmm or 1500kg/cu.m density

Steelwork grades:
Rolled UB, UC, PFC, plate and angle sections: S275JR
Hollow sections: S355JR
All steelwork is to be CE Marked by an accredited fabricator and is to receive the following protective treatment:
Blast clean SA2.5 to BS EN ISO 8501-1:2001

For steelwork above ground level: 2 coats Dulux Trade Metalshield Zinc Phosphate Primer or equivalent. Dry film thickness 50 microns per coat. Under coat and coloured top coat (if required) to architect's specification.
For steelwork below ground level: 2 pack zinc-rich epoxy (70 microns), Epoxy MIO (125 microns), (SL3).

Alternatively:
Blast clean SA2.5 to BS EN ISO 8501-1:2001.
Hot dip galvanise to BS EN ISO 1461 (85 microns). Where a galvanised surface is to be painted a Mordant T Wash solution is to be applied prior to the coloured top coat.

All bolts to be Gr. 8.8
All welds to be 6mm fillet welds (FW) unless noted otherwise.
Bolt holes in steel members to be set out in accordance with BCSCA publication No. 5/79 "Metric Practice for Structural Steelworks", 3rd Edn., 1979 u.n.o.
All steelwork is to be fabricated & erected in accordance with the current edition of the National Structural Steelwork Specification for Building Construction.

Provide 1/2 hr fire resistance to all 1st floor steelwork and supporting steel posts.

CE Marking Execution Classes:
Rolled UB, UC, PFC & angle sections: EXC2
Hollow sections: EXC2

All steel beams are to have a minimum end bearing of 100mm onto padstones unless noted otherwise.
All lintels are to have minimum 150mm end bearing.

All timber structures to be constructed in accordance with the latest edition of the TRADA National Structural Timber Specification & typical standard details given in the TRADA Timber Frame Construction manual.

All timber beams and trimmers comprising 2 or more pieces are to be bolted together with M10 bolts at 500mm staggered c/c unless noted otherwise.

Oak members to be visually stress graded in accordance with BS 5756
Green oak may be used, but note that significant shrinkage movement may occur as the timber dries out. Decorative finishes (esp. bathroom tiling, wet rooms etc.) should be detailed and constructed to accommodate potential movement.
All fixings to green oak timber to be stainless steel

Rev	Date	Details
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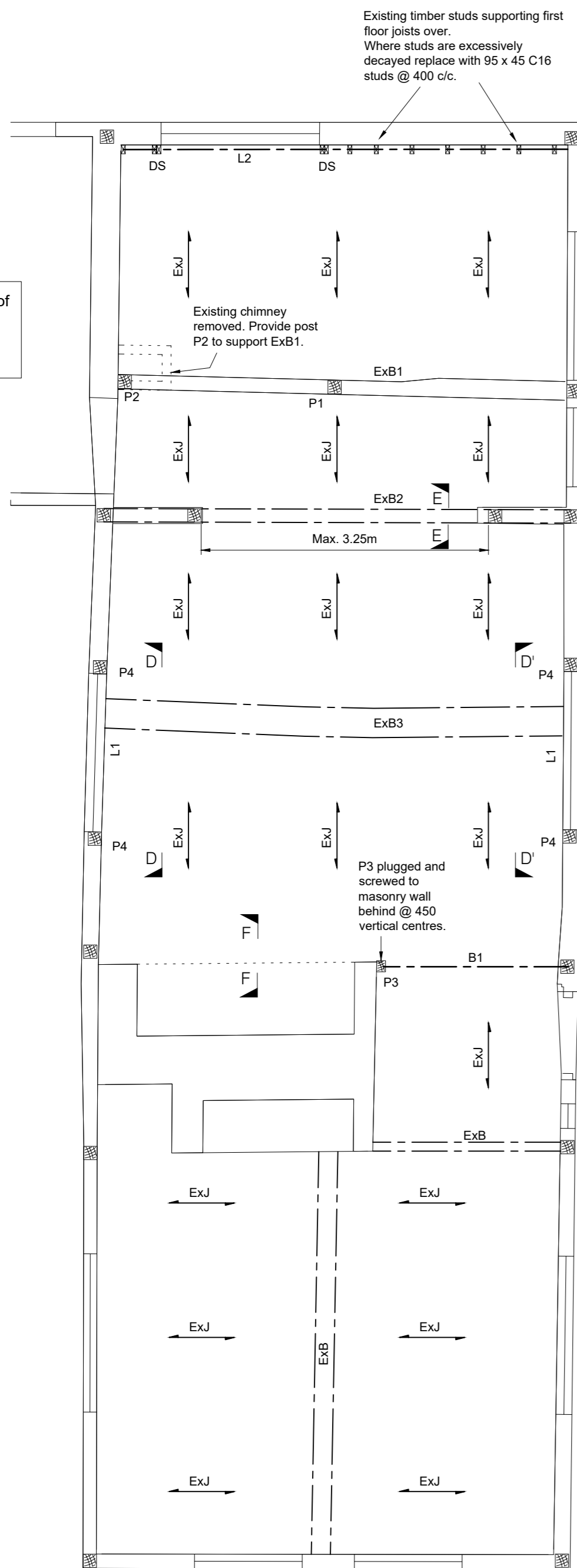
In the event of any queries please contact:
Geoff Denton BEng

ADAM POWER ASSOCIATES (RICKINGHALL)
Consulting Civil/Structural Engineers

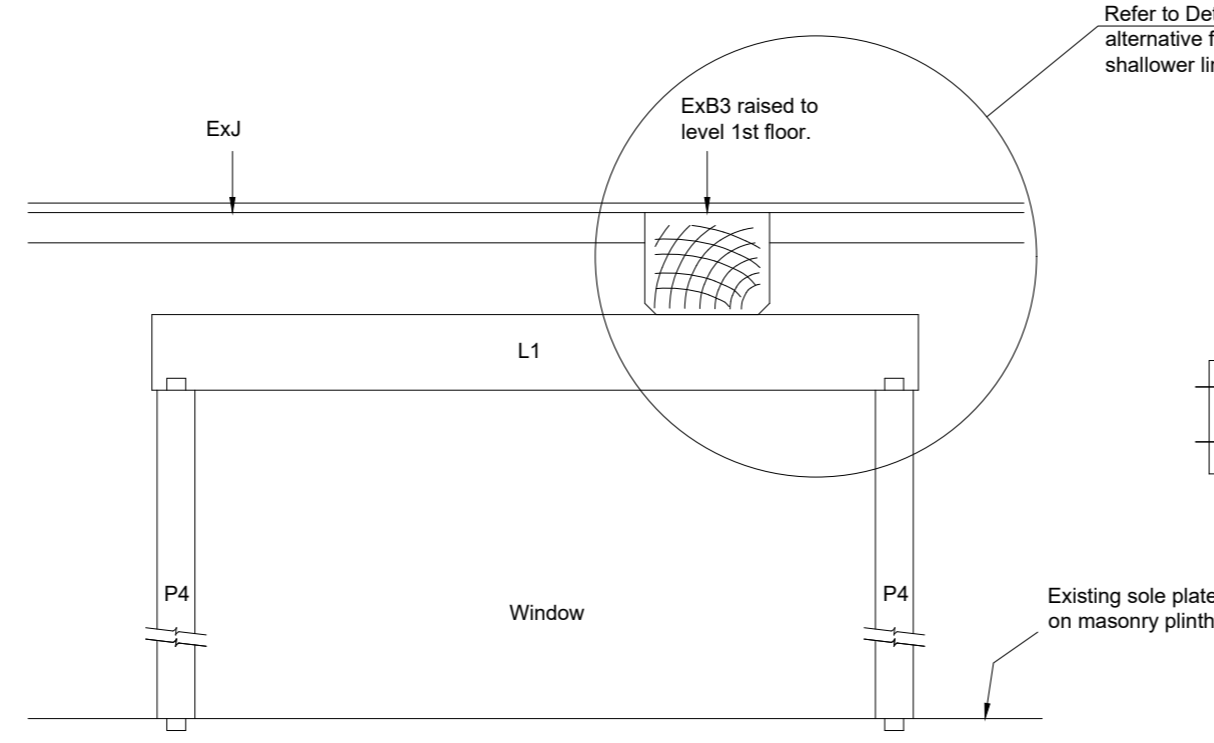
The Old Chapel, The Street, Rickinghall, Suffolk IP22 1BN
Tel 01953 668664
Adam Power Associates (Rickinghall) is the trading name of Protek Consulting Ltd.
email: geoff@adampower.co.uk Direct dial: 01953 660285

Title **Proposed Alterations to Woodlands Farm, Ringshall First Floor Repairs/Strengthening**

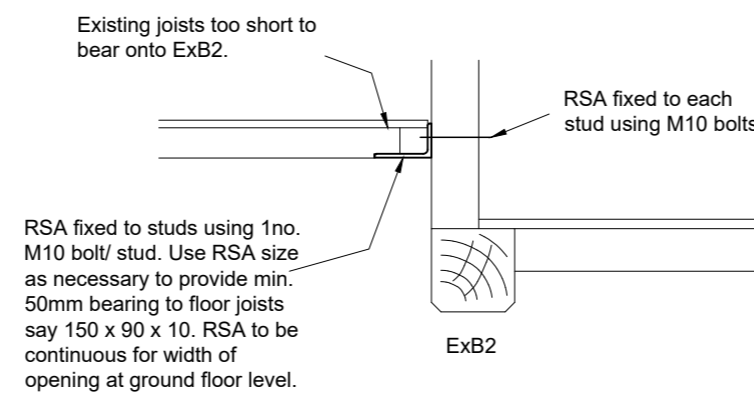
For	Revive & Restore Ltd.	Date	30-Mar-22
Job No.	R/21/129	Drg No.	D2
CAD Plot Scale	1:50@ A2	Rev	-



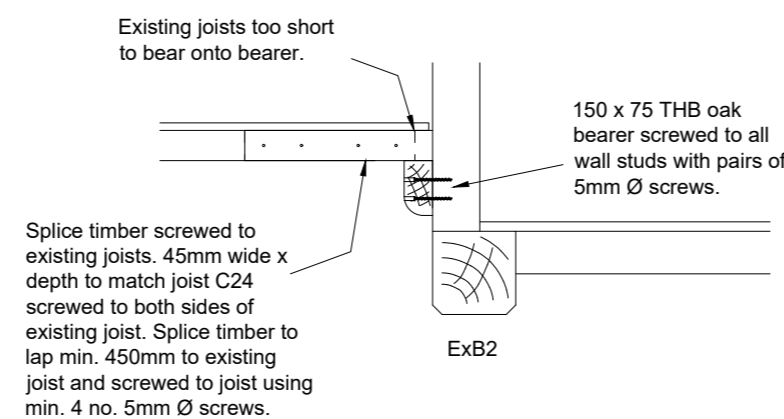
Part Ground Floor Plan
(Showing First Floor Structure Over)
Scale 1:50



Elevation D-D
(Elevation D'-D' similar)
Scale 1:20

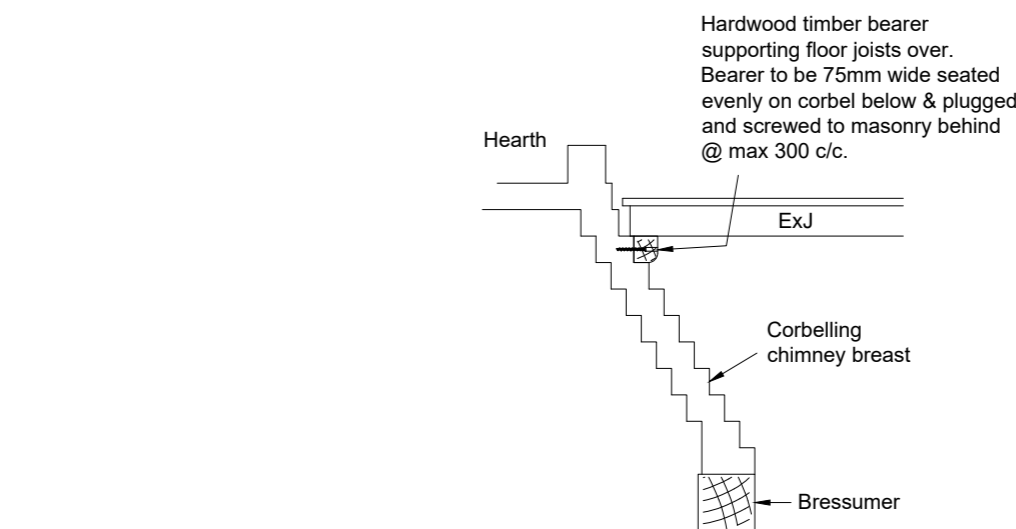


Section E-E (Floor joists supported on RSA fixed to timber studs)
Scale 1:20



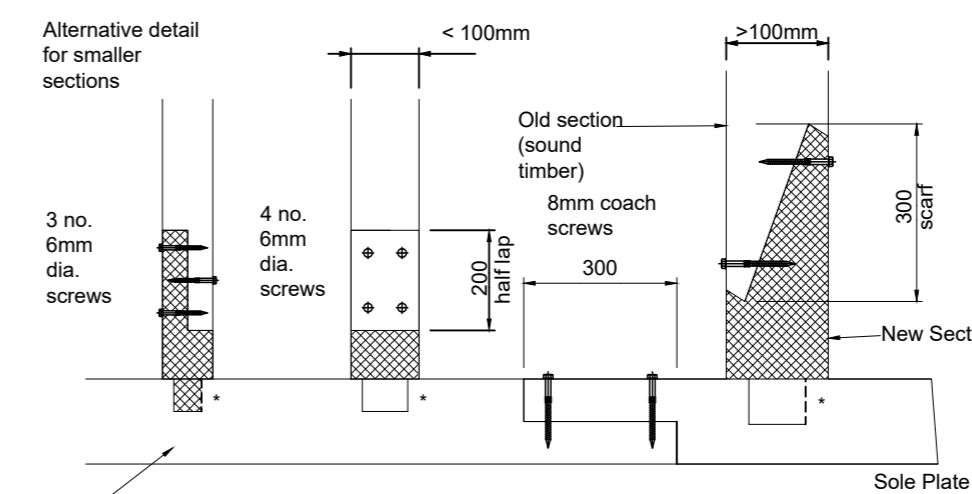
Section E-E (Alternative with joist extensions and supporting timber bearer)
Scale 1:20

- Structure:
- ExJ - Existing Floor Joists
 - ExB1 - Existing Beam: Post P1 provided approx. mid span
 - L1 - Lintel: 230 x 100 THB oak. If depth between existing beam and lintel is insufficient provide flitch beam. Refer to Detail 1.
 - L2 - Lintel: 145 x 90 C16 (2 no. 145 x 45)
 - DS - Double stud supporting lintel: 95 x 90 C16 (2 no. 95 x 45)
 - P1 - Post: 150 x 150 THB Oak
 - P2 - Post: 150 x 150 THB Oak
 - B1 - Beam: 150 deep x 125 wide THB Oak
 - P3 - Post: 125 x 100 THB Oak
 - P4 - Post: 100 x 100 THB Oak



Detail 1: Flitch Beam Alternative
(To achieve shallower lintel Min. 150mm deep)
Scale 1:10

Section F-F
Scale 1:20



Typical Timber Frame Wall Stud and Sole Plate Repairs/Splices

CONSTRUCTION NOTES CONT.

- Abbreviations:
SST - Simpson Strong Tie
FW - Full profile, continuous fillet weld
gms - Galvanised mild steel
sw - softwood
u.n.o - unless noted otherwise

NOTE - DISCREPANCIES BETWEEN THIS DRAWING, THE ARCHITECT'S DETAILS OR SITE CONDITIONS ARE TO BE REPORTED TO ADAM POWER ASSOCIATES IMMEDIATELY. THE CONTRACTOR SHALL AWAIT INSTRUCTION FROM US PRIOR TO PROCEEDING WITH ANY FURTHER WORKS ON SITE

CONSTRUCTION (Design & Management) REGULATIONS 2015:
The structural design has been carried out with due consideration for safety during construction, occupation and maintenance of the finished structure. The Works contains no extraordinary hazards or risks that are not present during routine construction operations or would readily be apparent to a competent contractor. The project does not involve specialist methods or sequence of operations.
The Principal Contractor shall include a detailed method statement for all demolition works in the Construction Phase H&S plan. A copy of the Plan shall be forwarded to Adam Power Associates, the Client and the Architect/Agent prior to commencing any work on site.

Unless specifically detailed on this drawing, all Temporary Works shall be designed and detailed by the Contractor in accordance with BS5975:2008.