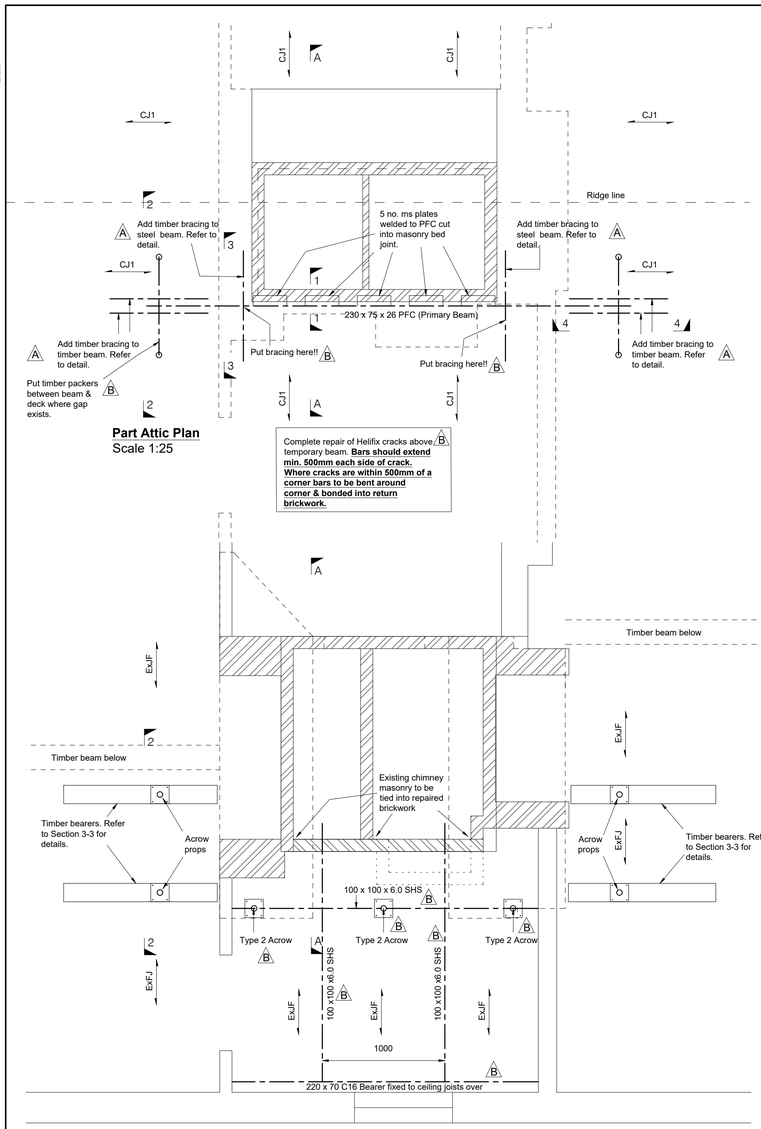
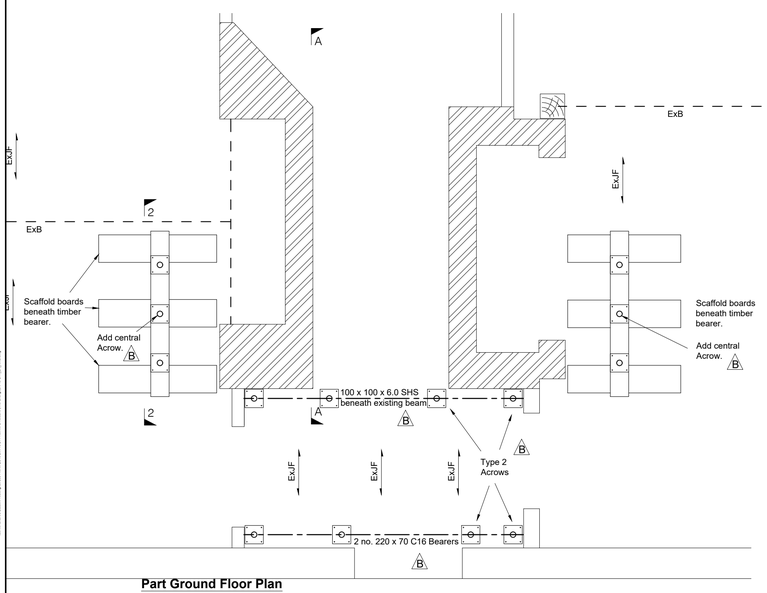


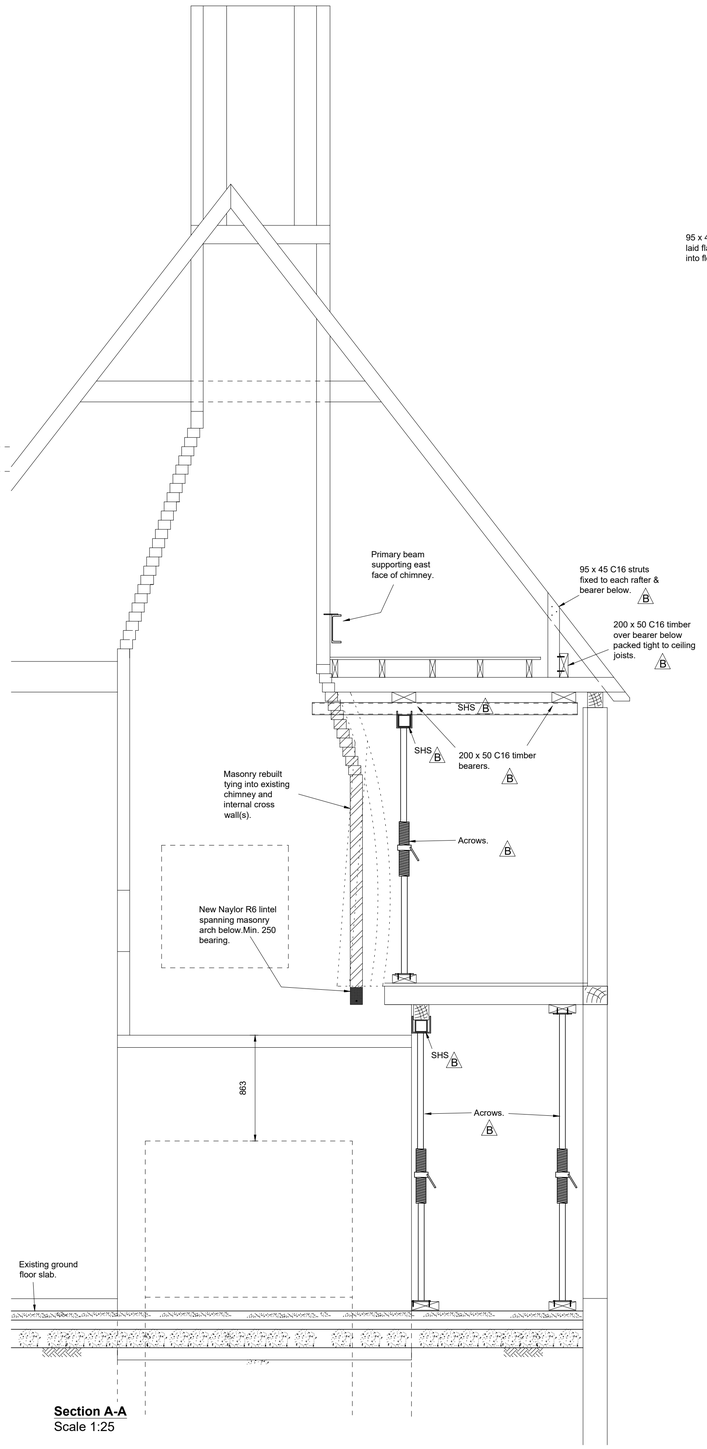
Part Attic Plan
Scale 1:25

Complete repair of Helifix cracks above temporary beam. **Bars should extend min. 500mm each side of crack. Where cracks are within 500mm of a corner bars to be bent around corner & bonded into return brickwork.**

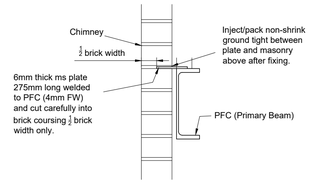
Part First Floor Plan
Scale 1:25



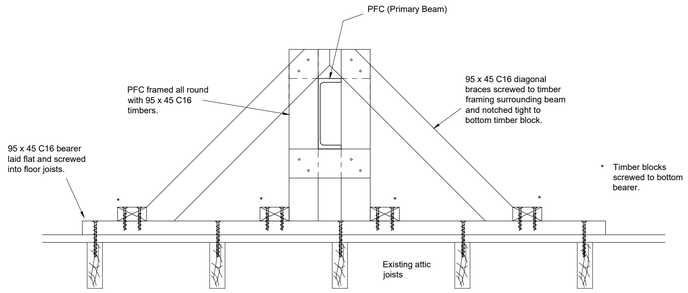
Part Ground Floor Plan
Scale 1:25



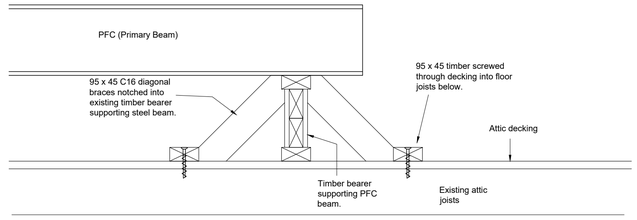
Section A-A
Scale 1:25



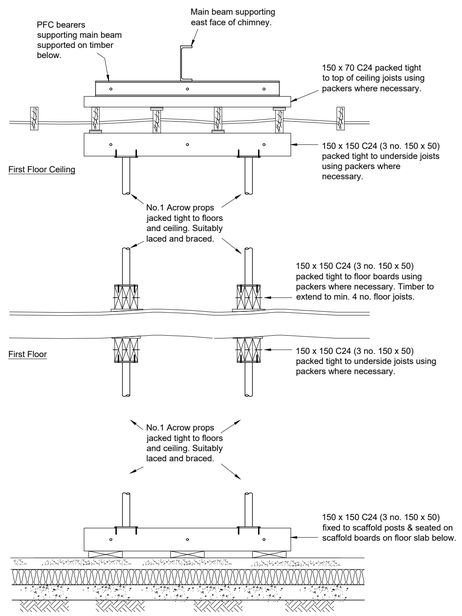
Section 1-1
(Typical section of plate cut into bed joint of chimney)
Scale 1:10



Section 3-3 (2 no. off) A
(Typical section showing restraint of PFC beams)
Scale 1:10



Section 4-4 (4 no. off) A
(Typical section of plate cut into bed joint of chimney)
Scale 1:10



Section 2-2
(Propping of beam from ground floor level)
Scale 1:20

CONSTRUCTION NOTES

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

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.

Steelwork grades:
Rolled UB, UC, PFC and angle sections: S275JR
All steelwork is to be CE Marked by an accredited fabricator.

All bolts to be Gr. 8.8
All welds to be 5mm fillet welds (FW) unless noted otherwise.
Bolt holes in steel members to be set out in accordance with BCSA 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.

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

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

NOTE - DISCREPANCIES BETWEEN THIS DRAWING AND SITE CONDITIONS ARE TO BE REPORTED TO ADAM POWER ASSOCIATES (APA) 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 contain 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 involve a specialist sequence of operations. Specific requirements are described below

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 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.

SEQUENCE OF WORKS A

1) Masonry Arch/Register Plate Protection:

Install protection to top of brick arch walkway & fire place register plates. (Shock absorbing material such as polystyrene/ insulation).

2) First Floor Shoring:

Construct further temporary shore to eastern wall at first floor level as discussed on site.

3) Beam Bracing & Propping Adjustments:

Make adjustments to propping arrangement. (Details to be confirmed). Provide additional restraint bracing to steel beams and timber bearers as indicated.

4) Helifix & repointing to cracked/damaged masonry:

Carry out Helifix repairs as per detail to cracked masonry as indicated on site. Also carry out repointing where specified. Sequence of Helifix stitching as follows:

i) Attic level (where indicated on site)
ii) First floor (Bedroom south side of chimney)
iii) Ground floor (Office, South side of chimney) Full length of chimney breast and western buttress. Vertical crack in corridor arch.

5) Check and review stitching & additional temporary works measures.

6) Dismantle & rebuild east wall:
Carefully dismantle masonry beneath steel beam to first floor level. Review stability of adjacent walls and central chimney wall as work proceeds.
Rebuild wall on sound masonry base in lime mortar with added white cement for additional strength and durability (specification to be confirmed) using existing bricks where possible & supplementing with equivalent (as necessary).
New wall to be stitched into existing masonry both ends and if possible into the central dividing wall. (To be confirmed on site).
Construct gentle corbel (as necessary) to align base to masonry above.
Dry pack between top of new masonry and existing wall above.

7) Remove Beam & Supporting Props:
Check and review repairs.
Remove beam & complete dry pack between new and old masonry.
Dismantle supporting props.

8) Make good & carry out decoration as agreed with Client.

Rev	Date	Details
B	27/08/21	Supplementary propping added indicated thus. B
A	22/07/21	General revisions indicated thus. A

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

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Adam Power Associates (Rickinghall) is the trading name of Protek Consulting Ltd.
email: geoff@adampower.co.uk Direct dial: 01953 660285

Title: The Grange, Norwich Road, Little Stonham, Chimney Repair Details

For: Revive & Restore Ltd. Date: 27-Aug-21

Job No.	Drg No.	CAD Plot Scale	Rev
R/19/211	D1	Refer to dwg.	B