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## CONSTRUCTION HAZARD ASSESSMENT STRUCTURAL DESIGN for

### Paston Great Barn, Paston. North Walsham.Norfolk

It is assumed that the project is to be undertaken by experienced and competent designers and contractors who are aware of the common risks associated with construction processes.

The summary below is intended to help all parties recognise the less common hazards which may be encountered in this particular project through an understanding of the structural principles involved and the assumptions made by the design engineer.

**Ref:** 241057/S Paterson

**Date:** 25 Mar 2025

**Status:** For Tender

**Version:** 1



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<b>Project Title: Paston Great Barn, Paston. North Walsham.Norfolk</b>		<b>Project No: 241057</b>
<b>Consideration</b>	<b>Yes/No</b>	<b>Comment</b>
<b>1.0 SUPERSTRUCTURE REFURBISHMENT, REPAIRS AND STRUCTURAL ALTERATIONS</b>		
1.1 Is there an asbestos register for the building? If yes, are areas to be investigated affected and are precautions required or clearance necessary ahead of any investigations or construction works? If no, lead consultant to organise asbestos survey ahead of any investigations		No known asbestos. Works entail repair to timber roof structure only. Contractor to prepare adequate risk assessment for the purposes of their works.
1.2 What is the construction and load bearing elements of the existing building?		Cut timber roof of rafters on purlins, spanning between queen post trusses, supported on timber posts and masonry walls.
1.3 What provides stability at present?		Buttressing from return masonry walls.
1.4 What is the nature of the proposed works?		Failed truss end to be replaced with new scarfed timber, bearings of other truss ends to be enhanced with new timber brackets, decayed post base to be replaced with new spliced timber, strengthening of beam connections with additional fasteners.
1.5 What will provide stability in future?		As existing, with enhanced stiffness from strengthened connections.
1.6 Have any major structural defects been discovered?		Refer to Conisbee Structural Inspection Report. Failed truss end which is currently supported on temporary propping. Excessive notching of timbers at northern end bearing supports, decay to timber

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		post.
1.7 Are any special precautions or procedures necessary before the works begin in earnest?		Contractor to prepare method statements and adequate temporary works designs to ensure the temporary stability of all structures until permanent works are complete. Works adjacent highly significant Listed building and Scheduled Monument. All works to be undertaken with agreement from Local Authority Conservation Officer.
1.8 Are any unusual risks anticipated in the execution of the works?		Existing truss end unstable, existing temporary propping to remain in place, or replaced with contractors own proposed temporary works until permanent works are complete. Significant ecological constraints from roosting bats. Natural England to provide Ecologist under watching brief during works. All site working to be agreed with Natural England prior to commencement. Works adjacent highly significant Listed building and Scheduled Monument. All works to be undertaken with agreement from Local Authority Conservation Officer.
1.9 Are there any special sequences of alteration, repair or erection which need to be followed?		Adequate temporary support must be provided to relieve load on existing structure to allow the replacement of decayed post base and failed truss end.
1.10 Define imposed load capacities to be		No increase in loads proposed –

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achieved.		repairs undertaken to maintain existing capacity for dead load of existing roof, and wind and snow loads.
1.11 Are any walls, floors or their coverings being removed in the works which might lead to temporary loss of stability in the building?		No. Localised removal of roof coverings only.
<b>2.0 BUILDING IN USE</b>		
2.1 Are any elements of the structure expected to fatigue or wear or require ongoing maintenance and repair work during the design life of the building?		None beyond usual for a building of this type.
2.2 Are there any elements in the civil engineering works (e.g., pumps, catch pits, silt traps, permeable paving) that require maintenance during the design life of the building?		No civil engineering works proposed.
2.3 Are regular ongoing inspections required – define frequency.		None beyond usual for a building of this type.
<b>3.0 DEMOLITION AT THE END OF DESIGN LIFE</b>		
3.1 Are any special procedures needed due to method of construction or erection?		Demolition should proceed roughly in reverse order of original construction, with coverings removed from roof, and roof structure disassembled before

Signature of Project  
Engineer:



Date: 25.03.2025

Signature of  
Director/checker



Date: 26.03.25