

NW06 / 1137 / F

Barn at Logaston Common, Woonton

Structural Appraisal

Description

The barn is constructed in traditional jointed and pegged oak framing over a stone plinth wall. The framing is clad externally with horizontal boarding. The building is formed in three sections, each consisting of three bays. The central section appears to be the original building, with later additions at each end. The southern end section has a lower floor level, while the northern end has a lower eaves level. The eaves have been levelled up and the complete building covered in corrugated iron. Rafters have been removed apart from over the original central building. There is a lean-to with cat-slide roof on the west side.

Condition

The oak frame is in generally good condition, with only a few external timbers weathered badly enough to require replacing. The external sole plates are badly decayed in places and require replacing. Missing timbers should be replaced with green oak using traditional techniques.

All internal cross frames, trusses and purlins are in good condition.

The stone plinth walls are approximately 450mm high, although this increases to 900mm at the southern end where the ground level is lower. A small section of plinth wall at the southern end of the east elevation has collapsed out and pulled the sole plate over approximately 225mm.

Conclusion

The building is structurally sound and in a reasonable state of repair. The corrugated iron roof sheeting has kept the structure dry and the boarding has protected the framing from weather damage. Some oak frame repairs are required, together with repair of the collapsed section of plinth wall, although this is work minimal and does not require any major reconstruction. It is important however that all work should be carried out using traditional materials and techniques.

Bryan Thomas ABEng. March 2006

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