

TOAT FARM, ITCHINGFIELD

Structural repairs to be carried out on Main frame barn.

Repairs to main oak frame and roof can be carried out once the roof is stripped of its tiles.

Item 1

Right hand side gable. On removing the exterior oak boarding a closer inspection can be done. Remove all mortar that had been used to repair the Tie beam and collar. Splice in new timber where necessary using timber to compliment existing timbers.

Item 2

Purlins

Purlins on centre bay and left side bay to be replaced due to being undersized.

Option 1 To purchase reclaimed oak beams and braces from Salvage company to match existing section of purlins on right side bay.

Halving joints to be formed over braces to the beams.

New braces to be fitted to the left side Tie beam and collar. New collars on bay 1 and 2.

Option 2 is to replace all purlins and braces with new oak to bays 1,2,3 To be advised on section sizes required for new works.

New collars to be fitted to bay 1,2,3

The above options to be discussed with Heritage for their preference.

Item 3

Gable rafter-section loss

Replace rafter from the Tie collar to ridge. New halving joint to rafter to be formed at purlin intersection

Item 4

Eaves beam cracked on front elevation The entire length of this beam to be replaced over the entrance main posts. Forming new halving joint to each end. Tying into existing eaves beam. Additional metal brackets can be manufactured to add support where necessary.

The new eaves beam may be new oak as it will house the new head of a new oak frame to the entrance.

Item 5

Inspection of main posts to existing entrance.

Inspection holes to be dug to evaluate the condition of posts Item 6 Rear central bay. The eaves beam is cracked . Right hand side rear section has poor joint to eaves beam.

Once the scaffolding is erected to the rear section of barn and the roof is stripped of tiles we propose to cut out a section of eaves beam long enough to cover the two issues above. Using halving joints each end of new timber beam. New metal brackets can be manufactured to add and fitted where necessary.

All new timber joints to be fixed with coach bolts or dowels.



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