

Structural Engineer's Report Dated 11 07 2016

From my inspection on 15/6/16 I briefly report as follows.

East Gable

This wall appears to be reasonably plum and the stonework on both faces is in reasonably good condition.

I do not consider that there is a vertical crack on the outer face at the east end. However, if there is a crack, is not of significant structural concern and I do not consider it is necessary to carry out any remedial works other than re-pointing. The stonework on the west face above the remains of the south wall is undercut and could benefit from being stabilised as proposed on your drawings.

On the east face, there are voids in the stonework at ground level. The voids should be filled with stone and mortar and any loose stonework consolidated as proposed on your drawings.

Please find attached, for comment, drawing 600400-DG-01-P1 showing preliminary details for two options for installing lintels to support the stonework above the two window openings.

General Stability of Walls

Apart from the walls in Areas 4 and 14, the walls, where they are still standing, appear to be reasonably plumb. I consider that remedial works proposed on your drawings are sufficient to address local instability issues with loose stonework.

Area 4

I do not consider it practicable to prop the tilting window jamb stones in Area 4 and I recommend that this area should be taken down and re-built as proposed on your drawings.

Area 14

The remaining stonework above the window opening in Area 14 is supported by a only small area of stonework at the west jamb. Stonework is overhanging the remaining outer lintel. I recommend that all of the stonework to the west of the east jamb be taken down and re-built. This would allow the west jamb to be strengthened to provide a bearing for the existing stone outer lintel and for replacement inner lintels (made of stone, stainless steel or prestressed concrete) to be installed to support the stonework above the opening.

I trust this is satisfactory but if you have any queries or require anything further please let me know.

John Pyper

Associate

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