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Structural Report in Connection with Condition 2g of the LBC Internal Works Consent 2009 Underpinning Works to the Main House

17th February 2015

1. Introduction

Michael Barclay Partnership LLP has previously been commissioned by Witanhurst Construction Management Limited (WCML) to report on the underpinning works to the Main House in connection with Condition 2g of the LBC Internal Works Consent 2009.

Some floor levels within the existing basement to the Main House have been lowered below the existing masonry wall foundation levels. Underpinning was carried out to allow the required excavation without undermining the existing footings. The underpinning and B1 Level plans can be seen in the appendix to this report.

This report focuses only on the underpinning works in the Main House not related to the new link between new and existing basements. For details of these link works refer to the previously published report by Michael Barclay Partnership entitled "Structural Report in connection with the formation of new openings between the new and existing basements".

2. Materials & Method of Construction

Where the basement floor levels have been lowered below the existing masonry wall foundation levels, those foundations have been underpinned with mass concrete to a level approximately 200mm below the required structural slab level. This ensures wall load is safely transferred into the ground below the new slab levels.

The underpinning was formed in the traditional way, to a sequence of approx. 1m bays as the masonry above and earth beyond can arch the temporary 1m gap. Once each pin is complete, any voids between the top of the pin and base of the existing footing are filled with dry pack to ensure an even bearing.

The house was monitored for signs of movement throughout the works as described in a report by SES titled Monitoring Proposal dated August 2010. 3. Appendix – Underpinning & B1 Plans





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Date: 17/02/15

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