

19 February 2018

Your ref:
Our ref: J17062/CA/01

Philip Welch
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Dear Philip


Re: THE COACH HOUSE, 50A BELSIZE SQUARE, LONDON NW3 4HN

We have now revised the Basement Impact Assessment and Ground Movement Assessment for the above site, following audit feedback from Campbell Reith Consulting Engineers. The revised report (ref J17062 Issue No 3, dated 16th February 2018) has been updated with the following changes.

- The construction sequence now includes temporary sheet piling along the boundary with Belsize Square. This has been modelled using Oasys X-Disp assuming a pile depth of 8.0 m and based on the latest deflection calculations provided by Consibee, which predict 13.2 mm of deflection for a 4.0 m deep excavation. The ground movement curves for 'installation of secant bored pile wall in stiff clay' have been adopted as being an appropriate conservative basis for modelling the likely ground movements during the temporary sheet piling installation phase.
- An assessment has been carried out of nearby utilities, which include gas, electricity, mains water and a sewer running within Belsize Square. The assessment has indicated that local differential movements of between 2 mm and 7 mm are likely to occur as a result of the proposed basement construction.
- The Ground Movement Assessment has been updated to include a proposed excavation depth of 4.0 m, to reflect the need to deepen the walls to by-pass the soft cohesive deposits.
- The movement monitoring strategy has been updated to reflect a traffic light system, where the predicted movements should be set to the 'Red' movement limits, where all work should cease immediately. 'Green' is considered to be suitable for 'Negligible' movements and 'Amber' is set to a value between 'Green' and 'Red'.

If you require any clarification of the above, or any additional information please do not hesitate to contact us.

Yours sincerely
GEOTECHNICAL & ENVIRONMENTAL ASSOCIATES


Caroline Anderson

Encs