Our Ref: TW/W1229

Date: 15th May 2015

Anastasia Saward
Allies and Morrison
85 Southwark Street
London
SE1 0HX

Dear Anastasia,

RE: Kidderpore Avenue Phase 2: Piling Statement

The below statement relates to the proposed methods of pile installation for Phase 2 Kidderpore Avenue.

The foundations for the Phase 2 development at Kidderpore Avenue will consist of Continuous Flight Augured (CFA) bearing piles, with sheet piles used around the perimeter of the basement to Blocks K/L/M, which will be installed using a silent pressing method. The outline methodology for the pile installation is described below.

CFA Piling

The CFA pile installation is virtually vibration free and is one of the quietest forms of piling. The following methodology would be used to install the piles:

- A piling platform consisting of crushed aggregate shall be placed and compacted in layers with a roller compactor to act as a working surface for the piling rig.
- A CFA piling rig is then used to drill down to the required depth.
- The augur is then removed at a controlled rate, whilst concrete is pumped through the hollow augur stem
- A reinforcing cage is then pushed into the fluid concrete.

Sheet Piling

The sheet piles shall be installed using a silent pressing method, which has been developed specifically to produce a vibration free installation by use of a hydraulic pressing machine. The following methodology would be used to install the sheet piles:

- The piling machine is placed on a reaction frame, which is coulter-weighted to allow the first piles to be installed.
- The piles are lifted into position with a mobile service crane.
- The piling machine presses the piles into the ground, using the counter-weighted reaction frame to provide leverage.
- Once the first piles have been installed from the reaction frame, the piling machine works on the top of the installed piles and moves to the next pile position, gripping onto the top of the

installed piles to allow subsequent piles to be hydraulically pressed into the ground to the required depth.

The above methods of pile installation have been selected in order to limit associated noise and vibration. There is no impact piling, or percussive installation methods proposed for this site. These methods of construction cause minimal disturbance to the soils in comparison to impact piling methods, and therefore the potential for damage to nearby infrastructure is also greatly reduced in comparison.

Should you require any further information then please do not hesitate to contact me.

Yours Sincerely,

Tony Watkin
Associate Director

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