



FROM.

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REGISTERED IN ENGLAND.

No. 8894199

CLIENT.

CORA DEVELOPMENTS LIMITED

SITE.

BEECH DRIVE, THORNTON

DATE.

23/01/2024

OUR REFERENCE.

LE671AY001/LETT/001

SUBJECT.

FOUNDATION CONSTRUCTION
METHOD WITH RESPECT TO
ADJOINING STRUCTURES

Dear Sir or Madam,

SPEEDECK Foundations Limited have been engaged to design and build the foundations at the proposed development at Beech Drive, Thornton.

The foundations comprise piled rafts, with 300mm diameter reinforced concrete piles. Final pile lengths have yet to be determined, however average pile length is expected to be in the range 6.0 to 6.5m below existing ground level.

The construction sequence involves boring the piles with a tracked auger rig first, followed by construction of the concrete raft.

The piles are to be constructed using the Continuous Flight Auger method, which involves simultaneous removal of the soil and placement of the concrete. This construction method will therefore not undermine the adjacent property and the presence of the piled foundation will not have any negative effect.

The piling rig generates noise levels of 110dB(A) at 5m distance. This will reduce with further separation from the rig. Ground-borne vibration is dependent on the ground conditions, but even on firm ground, vibration is only around 0.3mm/s Peak Particle Velocity at 20m distance.

Please do not hesitate to contact us if you have any further questions.

Yours Faithfully
SPEEDECK Foundations Ltd

Giles Gordon-Saker
Ground Engineering Specialist