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METHOD STATEMENT FOR PILING WORKS AT

18-20 ST. PANCRAS WAY

NW1 0QG

METHOD STATEMENT FOR THE PILING WORKS AT 18-20 St. PANCRAS WAY, LONDON, NW1 0QG:

(To be read in conjunction with the latest Architect's and Structural Engineer's drawings and details)

Key plant and Tools required:

- Klemm KR702-1 mini hydraulic piling rig or similar (see enclosed specification)
- Trailer mounted concrete pump
- Concrete agitator (similar to as used on ready-mix truck)
- Compressor

Key materials required:

- Readymix Concrete
- Reinforcement

Sequence of Operations:

1.0 Start of Shift

1.1 The pump operator lubricates the concrete pump and pumping line

2.0 Set Up and Boring

2.1 The foreman checks drawing and design.

2.2 The auger set up over pile pin position by the rig operator, guided by the banksman who needs to check from the front and side of the rig. Reference pins are set up in two directions at right angles using the spacing bar.

2.3 The concrete discharge flap at the auger tip is closed by one of the following means:

- The flap at the tip of the auger is closed and secured using a short length of rope or similar material. The banksman then stands clear and signals the rig driver to lower the tip of the auger to ground level, then signals the rig driver that he can proceed with drilling. Or
- The flap is held in the closed position by the banksman using a rod longer than 1m in length. The banksman must remain within clear view of the rig driver. The banksman signals the rig driver to lower the auger until the flap is held closed by the ground. He then withdraws the rod and stands clear and then signals the rig driver that he can proceed with drilling.

2.4 When the foreman is satisfied all is in order, he will commence auguring to the required depth. During boring, the gates are kept in the closed position until the auger advances into the natural ground or a minimum of 3m depth. Before the gates are open, the offset markers are used to check the pile position.

2.5 One banksman is to be on duty in front of the rig at all time that it is working to ensure that all is in order and other personnel are kept clear.

3.0 Concreting

3.1 At the target depth, the auger is rotated to allow spoil to rise and the auger is lifted a maximum of 150mm to allow concrete to exit.

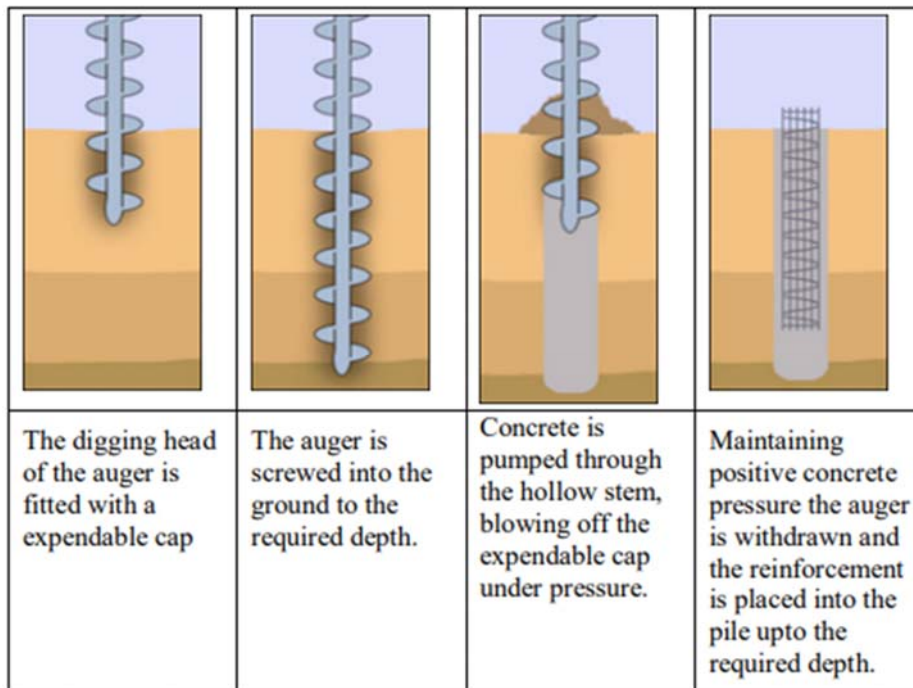
3.2 The concrete pump is operated to supply concrete through the delivery hoses and down the auger central stem to form the pile as the auger is withdrawn. Once over-pressure is noted by the rig operator, the auger is lifted, slowly at first.

3.3 The concrete pressure, flow rate and overbreak percentage is monitored throughout the pile construction operation by the rig instrumentation.

3.4 During withdrawal of the flight the operator operates the mechanical auger cleaner. The piling team are to ensure that the working area is kept clear of unauthorised personnel. On certain exceptional occasions the piling gang will be required to manually clear the auger flight of all spoil to

prevent this going above head height. This will be under the direct control of the piling foreman and / or banksman who ensure that the auger is not rotated when it is being lifted.

3.5 As the auger reaches the surface pumping will cease



3.6 The rig operator will be directed by the banksman onto the next pile position

4.0 Placing Reinforcement Cages

4.1 The attendant excavator will clear the spoil and concrete slurry from the pile position to a stockpile for disposal.

4.2 The pile head will be located by the piling crew and a small amount of concrete dug out to define the pile position. The reinforcement cage is then either manually lifted into position, or lowered by the excavator or the rig service line into the wet concrete and pushed down by stepping on the helical binder. Should the reinforcement cage not enter the concrete by this means, the excavator will be used to press it into the wet concrete. The banksman will check the reinforcement cage on completion to ensure it is central in the pile.

4.3 Any reinforcing bars that project above the piling platform are to have yellow plastic protective caps fitted by the Rock & Alluvium operatives to protect against stab, puncture and trip hazards.

4.4 The piling rig then sets up onto a new position with the aid of the banksman and the process is repeated