



Greenpiling

TENDER PROPOSAL

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CONTINUOUS FLIGHT AUGER PILING

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TENDER PROPOSAL

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If this offer is of interest, we look forward to visiting the site and agreeing terms etc. before accepting an order.

We trust this meets with your approval.

Yours faithfully

On behalf of Green Piling Ltd

Tom Milner

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Enc Technical Proposal, Attendances, Terms and Conditions of Contract, Bill of Quantities



CONTINUOUS FLIGHT AUGER PILING

TENDER CLARIFICATIONS

We have allowed 303nr 750mm diameter CFA piles, as specified on the structural drawings, installed to a design length. The Contiguous wall is drawn as 600mm diameter but with no spacing. We have allowed 193nr 600mm diameter CFA piles, generally installed at 750mm centres, to for a contiguous wall. This is to produce circa 144.75m of wall, pile layout drawing and numbering would need to be updated to reflect this.

There are several items we would wish to discuss/clarify prior to providing a more formal offer;

- Discussions on construction sequencing, may make the scheme more economical.
- Works are assumed to be propped in the permanent by the basement slab as a minimum. Discussions with the engineers will be required.
- Piling platform level confirmation. At this stage we have assumed a platform level of top of capping beam for all the contiguous wall and bearing piles
- Requirement for an AIP.
- Individual pile loads for the contiguous wall. At this stage we have assumed the spread of load of the piles to a maximum
- Any loads and/or surcharges applied to the wall. Our analysis includes a nominal 10kN/m² surcharge.
- Certain aspects of any pile specification/drawing notes, in particular the agreement of acceptable settlement and deflection values prior to acceptance of a formal order.
- Our offer assumes that all piles will be installed during one visit to site, and that all pile locations will be available at commencement of works & installed in an effective and efficient sequence.
- We assume adequate access for wheeled transport and sufficient working space for our rig. We also assume that the rig can track fully rigged to all pile positions without delay or hindrance.
- Please note we generally require a minimum lateral working space of 1250mm measured from the centre line of pile to the face or projection of an adjacent structure. This dimension to be increased at corner locations.
- All piles are considered as restrained/tied in two directions, such that the design for construction tolerances need not be considered in the design of the piles. Should there be a requirement for piles to be designed for eccentricity, additional reinforcement or larger diameter piles may be required.

Should you be considering using a third-party warranty provider such as LABC/Premier Guarantee, a more detailed site investigation may be required that satisfies the current Eurocode standards, with boreholes extending below the toe of the piles. Notwithstanding this, the proposed pile testing regime would need to be agreed prior to accepting an order, and we would suggest early engagement with any such warranty provider, to understand their requirements.

In the absence of any specific levels, we have assumed a piling platform level approximately equal to borehole commencement level. The proposed rig cannot work from a sloping platform. Any ramps required between levels are to be installed on a 1:10 gradient.

We have allowed de-bonding foam to the upper of the pile reinforcing cages. Foam will be placed to a target level of 150mm above pile cut off level, with a tolerance of +/-150mm. Upon receipt of final levels, we will amend this allowance accordingly. For reasons of practicality and safety we will not place reinforcement to project above ground level, therefore you need to ensure that there is sufficient distance from platform to cut off level to accommodate your required reinforcement projection, projection of steel requirements are to be designed/advised by others

Piles are generally considered as restrained/tied in two directions, such that the design for construction tolerances need not be considered in the design of the piles. Any piles that are not restrained/tied, moments generated due to construction tolerances are assumed to be accommodated by the sub-structure - no eccentric loading has been allowed for in the piles. Should there be a requirement for piles to be designed as unrestrained, additional reinforcement or larger diameter piles may be required.

We would advise you that certain items within our tender may not be compliant with the specification or notes on the drawings and will need discussion and agreement prior to acceptance of a formal order for the works.

We have allowed for 100% sonic echo integrity testing to working piles, to be tested at cut off level following pile trimming by others. We would point out that within the ICE Specification for Piling and Retaining Walls, integrity testing is not recommended for contiguous or secant piled walls, as it can give misleading results.

This offer is based on utilising higher partial factors which normally obviate the requirement for load testing, this should be confirmed by your engineers as acceptable. Therefore, have made no allowance for static/dynamic load testing.

We would specify the pile settlement criteria for this project would be contracted to acceptance criteria of less than 10mm at DVL and 15mm at DVL + 50% of SWL. To contract to less than this would require a preliminary pile test in advance of the main works.

Due to the spacing of piles within the core being less than 3 x diameter and group or block analysis would need to be completed by others.

Our offer makes no allowance for dealing with obstructions, services, underground features or unforeseen ground conditions. Please note that CFA piling cannot readily deal with any obstructions. If natural or artificial obstructions are encountered, either known or unknown (including timber, steel, concrete – foundations, boulders claystone etc. which cannot be penetrated using our standard (CFA) equipment, we shall withdraw from the position whilst the obstruction is removed by others. During this time we will relocate to the next readily available pile position. In the case of deep obstructions which cannot be removed, we may have to abandon the pile position and relocate to an alternative position.

Our target piling period, excluding testing will be 30 working days on site, after the commencement of the first pile using one rig. In addition to which we wish for a further 2-week grace period adding to the programme, free of main contract costs or LADs.

Should our offer be of interest we would welcome the opportunity to meet on site and review access. Our current offer is on the basis that we can gain access with our standard CFA piling equipment, working in unrestricted conditions.

Our offer assumes that all piles will be installed during one visit to site, and that all pile locations will be available at commencement of works & installed in an effective and efficient sequence. We assume adequate access for wheeled transport and sufficient working space for our rig. We also assume that the rig can track fully rigged to all pile positions without delay or hindrance. Please note we generally require a minimum lateral working space of 1250mm measured from the centre line of pile to the face or projection of an adjacent structure. This dimension to be increased at corner locations.

Agreed contractual periods are subject to the appropriate extension of time where progress is impeded due to adverse winter temperatures, and in particular the availability of concrete deliveries.

This tender is subject to re-measurement, based on the results of the site investigation information provided, and the ground conditions encountered on site.

We have based our offer on material supply prices ruling at the date of this tender, any increase in cost from our suppliers, will be confirmed within 7 days prior to starting on site, and passed on to yourselves accordingly.

Our tender is based on our specialist piling specification and conditions of tender, which we would require to form part of any sub-contract that may result.

Please note we would need a minimum of two weeks, to formally review the terms of the sub-contract, with a signed subcontract in place prior to commencement on site.

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TECHNICAL PROPOSAL

Pile type	Continuous Flight Auger (CFA)				Design Factor of			EC7 Design Factors		
Specifications	Generally in accordance with BS8004 & ICE Specification for Piling and Embedded Retaining Walls									
Concrete Mix	Grade C30 to Class DC2 as BRE Special Digest No. 1, to Green Piling requirements. Sulphate conditions to be confirmed by others.									
Section of Site	No. of Piles	Nominal Dia. (mm)	Length (m)		Loads (kN)			Reinforcement		
			Average	Total	Comp.	Tens.	Horiz.	Nr	Dia (mm)	Length (m)
All piles in 1 visit Contiguous Wall Bearing Piles	193	600	12.6	2431.8	0-1500	0	0	To Green Piling Design		
	110	600	25.4	2795	900-2000	0	0			
Design Quantities	To be confirmed following detailed design and reviewed on site as necessary.									
Negative Skin Friction / Heave	Not Included (If required to be confirmed by the Engineer as a variation)									
Piling Platform Level	Taken as borehole commencement level.									
Pile Cut Off Level	At a minimum of 450mm below Piling Platform Level, but not greater than 1000mm below.									

This tender is based on the following documents:

Soils Information: Apex – 1305-ACE-GEO-GA-001 – rev002 – 24/07/2024

Drawing Numbers: 1305-S-04-099-P01, 06-101-P01, 102-P01, 201-P01, 26-101-P02, 103-P01

Proposed Method Statement and Item Coverage

- 1) Site conditions, working space, pile setting out and other required attendances will be examined prior to commencing piling and any apparent deficiencies brought to the attention of the employer. This does not relieve the employer of his responsibilities in these respects.
- 2) Piling rig (up to 65 Te tracked) will be delivered to site on a low loader and erected near to or on the piling area.
- 3) Ancillary Equipment will be delivered to site on 40' artic wagons and unloaded to central storage areas within the general piling area.
- 4) One set up of static equipment has been allowed, i.e. pump, drum, and in the event we are required to re-site these items for whatever reasons, costs will be charged accordingly.
- 5) Piles will be installed with a continuous flight auger mounted on a tracked hydraulic rig. The hollow auger is screwed into the ground to the required depth. As the auger is withdrawn concrete is pumped through the auger to form the pile shaft to ground level.
- 6) Once cast, spoil is removed and reinforcement is inserted into the wet concrete to ground level.
- 7) Pile shaft concrete will be placed to ground level and will require to be trimmed back to a minimum of 450mm by others at no cost to ourselves.
- 8) All piles to be test loaded are to be nominated by the Employer before concrete is placed to avoid additional costs. Reaction for test piles will be provided by means of jacking against anchor piles, to be trimmed by others.
- 9) Final pile lengths required on site will be subject to continuous reassessment in accordance with soil conditions encountered and our design.
- 10) We will require compensation in full, at cost, for loss or damage to augers and other plant and equipment of Green Piling including additional expense incurred by Green Piling as a result of difficulty in extracting augers, and any realignment of same necessitated by contact with obstructions or natural material during pile construction.
- 11) Piles to be measured from toe levels to piling platform level at time of pile construction. Lengths of pile to be measured individually when calculating payment due to Green Piling.
- 12) The trimming of piles and the design of the pile to substructure connection detail is to be carried out by others.
- 13) Ancillary activities such as setting out, pile testing, cutting to level if offered and unless otherwise stated are on the basis of one continuous uninterrupted visit to site with prior completion of all access and preparation works to allow efficient sequences of work and may require different contract periods than pile installation.

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ATTENDANCES REQUIRED FROM CLIENT TO SPECIALIST PILING CONTRACTOR

For the purposes of this document the following definitions shall apply:

Specialist - Piling Specialist Client - Person directly employing the Specialist

Client - Person directly employing the Specialist

Specialist Works - Any operation or installation undertaken by the Specialist

Working Surfaces - Any platform, ramp, lay-down, storage area or the like required to be used by the Specialist

The following attendances and facilities shall be provided and maintained at all times (including additional working hours if necessary) for the duration of and in relation to the specialist works, free of charge to the specialist and in a manner so as not to disrupt or restrict the regular progress of the specialist works.

1. Notices and Approvals. Giving all notices and obtaining all necessary approvals, licences and sanctions, including but not limited to any method statement and/or design submission approvals, planning consents, party wall agreements, wayleaves, easements, possessions, rights of way or access and the like from third parties.

2. Rates and Fees. Payment of any rates or fees which may become payable due to occupation of the Specialist Works.

3. Design Information. No later than three working weeks (or other period as agreed) in advance of the programmed commencement of the Specialist Works on site, provide the Specialist with complete and final construction issue drawing(s), specification(s), pile/panel load schedule(s) in electronic spreadsheet format, and other relevant information required to undertake the Specialist Works. Any variation to these documents to be notified to the agreed contact in hard copy format.

4. Existing Services. Accurate setting out and clear and robust marking or exposing on site the exact location of existing underground/overhead services and providing a drawing on which their positions in line and level are accurately plotted relative to the Specialist Works. Protection, diversion or removal of such services to prevent damage from the Specialist Works. The location and sealing off of all disused pipes or ducts in order to prevent the entry of concrete, grout, slurry or drilling fluids during construction. Subsequent to the foregoing, issue to the Specialist's authorised representative on site a permit to dig or similar system on a daily or as otherwise agreed basis.

5. Obstructions. Prior removal of overhead, surface or underground obstructions which may impede the Specialist Works and backfilling of excavations and voids with a suitable material which will not obstruct or be deleterious to the works but which will ensure the stability of the Specialist Works and will maintain compliance with Items 11, 12 and 13. If "shallow" natural or artificial obstructions including boulders, claystones, timber, steel etc. are encountered which cannot be penetrated adopting our standard procedures, we shall withdraw from the pile positions whilst the obstruction is removed and resultant excavations backfilled and compacted with suitable materials, by others, at no cost to ourselves. In the case of "deep" obstructions it may be necessary to abandon the pile and request alternative pile position(s) or other instructions.

6. Shoring/Underpinning. Shoring and underpinning as necessary, including the removal, replacement or adjustment of timbering or shoring which may impede the Specialist Works.

7. Clearance. The provision of clearance around working positions and protection to adjacent works, structures (including underground structures), third party property and other site boundary constraints, to allow the execution of the Specialist Works.

8. Fencing, Hoardings, etc. Hoardings, fences, noise and splash barriers, footpath canopies, statutory warnings, signage, flagmen or the like as necessary to protect the works, plant, materials, personnel and to provide protection to third party property and members of the general public at or adjacent to the site boundaries. This shall include protection from concrete/slurry splashing, exhaust, oil, grease etc.

9. Traffic and Pedestrians. Control or diversion of road, rail or water borne traffic, including all necessary arrangements and payment of charges in connection with any road closures, lane rental and/or suspension of parking bays, rail possessions and the like.

10. Watching. Provision of security to safeguard the plant, equipment, materials on the site and the Specialist Works.

11. Access. Full, free, controlled and uninterrupted access onto the site(s) from hard road to Working Surfaces designed, installed, maintained and repaired as required under Item 13, including protective mats and all other equipment and measures necessary to ensure the safety of pedestrians and to avoid the risk of damage to third party property, including road surfaces, kerbs, footpaths/pavements, surfaces and services. Such access to facilitate the safe erection, operation and movement on, off and around the site(s), to and between lay-down, working and storage areas, pile/panel positions and test piles/panels for plant including provision and where necessary relocation of ramps, including to concrete agitators, to a gradient not steeper than 1 in 10.

12. Hardstanding and Storage Areas. Provision, subsequent removal and exclusive use of conveniently situated hardstanding and storage areas designed, installed, maintained and repaired as required under Item 13 to facilitate the safe operation and erection of plant and equipment, storage of plant, equipment and materials, offices, sheds and the manufacture of reinforcing cages. Where it is not possible for the Specialist to have exclusive use of the Hardstanding and Storage areas, the Specialist's agreement to any other activities to be carried out concurrently must be obtained before they are commenced.

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ATTENDANCES REQUIRED FROM CLIENT TO SPECIALIST PILING CONTRACTOR

13. **Working Platform.** Design, installation, maintenance, regular inspection, repair and subsequent removal and exclusive use of free draining Working Surfaces in accordance with the requirements of the attached FPS Working Platform Certificate, a signed copy of which must be provided to the Specialist prior to the Specialist's commencement. The design(s) shall include for all piling rigs, ancillary plant and equipment and wheeled transport including articulated and ready mixed concrete lorries and the checking of any retaining structures which support the Working Surfaces. Where it is not possible for the Specialist to have exclusive use of the Working Platform, the Specialist's agreement to any other activities to be carried out concurrently must be obtained before they are commenced.

14. **Surface Water and Groundwater.** Any pumping or drainage required to keep the site free of flooding, surface water or any water and slurry arising from the Specialist Works.

15. **Health, Safety and Welfare.** Health, safety and welfare facilities as required to comply with the CDM (2015) Regulations and any other statutory regulations or rules, orders or regulations of any authority having powers related to the Specialist Works. Such facilities as a minimum to include the supply of drinking water, washing facilities including hot and cold running water, male and female changing/drying and toilet facilities.

16. **Environmental.** Attendances, facilities and licences to comply with environmental legislation and rules/order or regulations of the Environment Agency and other statutory bodies.

17. **Temporary Lighting.** Background and task lighting to Working Surfaces to allow safe working and safe access and egress and to facilitate execution of the Specialist Works.

18. **Water Supply.** Within the working, storage and preparatory operation areas, potable water supply at mains pressure take-off points and sufficient for the operations, including (where applicable) charging of bores, bentonite/drilling fluid mixing, concrete/grout mixing and cleaning of plant.

19. **Electricity.** Within the working, storage and preparatory operations areas, sufficient power take-off points and power.

20. **Communication Facilities.** Provision of site telephone facilities and/or electronic data transfer facilities and/or designated areas for the use of mobile telephones as applicable.

21. **Guide Walls.** The setting out and checking, construction and later removal of reinforced concrete guide walls (where required). The top of the guide wall shall be a minimum of 1.5m above water levels encountered during construction of the Specialist Works.

22. **Setting Out.** Provision of clear, accurate and robust setting out and levels, checking and maintenance of individual pile/panels positions as necessary throughout the contract, provision of permanent datum points, base lines, structural grid lines as required and as built survey information.

23. **Checking.** Checking the positions and levels of all piles/panels, during the progress and on completion of the Specialist Works (where practicable) including the prompt countersignature of the Specialist's record sheets by an authorised representative of the Client before the Specialist's plant has left site.

24. **Attendant Excavator.** The provision of a 360 degree tracked excavator (and appropriately qualified operator) with a certificated minimum 1Tonne lift capacity in full time attendance to each rig for all operational purposes including removal of excavated or displaced material (including mud slurry and excess concrete from around the Specialist Works) in sufficient time to prevent the formation of spoil heaps impeding the Specialist Works, the handling of concrete delivery pipes, the unloading, transportation and installation of reinforcement and other general duties.

25. **Spoil Removal and Waste Management.** Classification, removal from site and disposal of excavated or displaced material including mud slurry and excess concrete from the Specialist Works in accordance with current legislation, rules/order or regulations of the Environment Agency and other statutory bodies including notification to the Environment Agency where arisings are classified as hazardous waste. Classification and disposal from site of wastewater from the Specialist Works (such as concrete wash out from agitators and ready mixed concrete delivery trucks) to comply with current legislation, including for filtering or the provision of settlement tanks as appropriate.

26. **Wheel and Road Cleaning.** Manned wheel-cleaning facilities and/or road-cleaning, as necessary.

27. **Protection.** Protection of the works where taken over by other trades or contractors or where the Specialist has left site, whichever occurs first.

28. **Empty Bore/Panel Reinstatement.** Backfilling of any empty bore/panel excavation with a suitable material which will not obstruct or be deleterious to the works but which will ensure the stability of the Specialist Works and will maintain compliance with Items 11, 12 and 13.

29. **Building up.** Building up of piles/panels or any necessary modification to the sub-structure as a result of the piling platform level being less than 0.45m (or as otherwise agreed) above the specified cut-off level.

30. **Trimming.** Cutting back heads of piles/panels, including overbreak and casing left in, down to the specified cut-off levels (including preparation of the surface of the pile head for integrity testing); cutting back overbreak from the face of retaining walls; disposing of debris; and preparing, straightening, cutting and bending the reinforcement, including test piles/panels, caps and reaction piles/panels or anchors; provision of all necessary engineering, setting out and level control to facilitate the installation of debonding materials/agents to agreed pile/panel reinforcement placement tolerances. Stripping formwork to recesses and box outs etc, including templates to starter bars or bolts.

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TERMS AND CONDITIONS OF SUB-CONTRACT

- 1. Basis of Tender** In view of the specialist nature of our work our offer (or as agreed and amended in writing) should be incorporated into the sub contract and take precedence in the event of any conflict between the various documents that form the sub contract. Our rates and prices are nett exclusive of VAT. Costs [concrete/steel/fuel/etc.] are to be on unfixed basis, advised at the time we place orders. This offer is open for acceptance for two weeks from the date hereof after which time it shall be considered withdrawn. The starting period (week commencing) is subject to the availability of labour, plant and materials at the time of receipt of acceptance of our offer.
- 2. Safety** We will carry out the work in accordance with our Method Statement and Health and Safety Policy.
- 3. Programme** We have allowed for completing our work, unless otherwise stated, using one rig in one visit to the site during normal working hours (up to 12 hrs/day at our option) without restriction or interruption, and to a logical sequence. The piling period will commence when the first pile is pitched and will end when the final pile is completed. LAD's have not been allowed for in this offer and in any case our exposure to the aggregate of LAD's and contractors delay costs should not exceed £500 per week.
- 4. Bond/Collateral Warranties** are expressly excluded unless agreed in writing. Notwithstanding this we warrant that we shall design and carry out the works in a workmanlike manner and exercise reasonable skill and care in accordance with these terms and conditions. This warranty commences from practical completion of the works for a period of 6 years provided that payment has been received in full and on time.
- 5. Notices and Records** Our Daily Reports are deemed to be full and proper notice of the events recorded on them irrespective of whether the records are signed unless they are returned to us on site within one working day of submission with any item disputed. Separate and additional notices may be sent from our Head / Regional Offices. The notices and records within the Daily Reports are to be recognized as forming the basis of potential re-rating or valuation of variations or additional work where entitlement is founded within the Contract.
- 6. Adjacent Structures and Services** We require all necessary permissions or approvals to be obtained from adjoining owners of structures and service operators to permit the execution of our works. We also require that you identify and ensure that any and all required protection, shoring, underpinning or structural remedial works shall be carried out prior to commencement of our piling work. In the absence of the above measures we will be provided with complete insurance cover indemnifying us without cost against damage to the structure/service concerned together with any third party claims resulting from such damage arising from the proper execution of our work. Noise/Vibration and nuisance will be kept to a reasonable level compatible with normal plant usage (Typically 85 – 95 dBA, 5 – 10mm^{s-1} (Driven), 0 mm^{s-1} (CFA), 5m from source). However, if our work programme or methods are to be subject to controls from any source, we require to be instructed in writing as to the alternative action which we are to take. All additional costs resulting from complying with such instructions will be reimbursed to us and the period for completion extended as necessary.
- 7. Terms of Payment** Please note that before entering into a sub-contract for the execution of this work, we may require to agree special terms of payment subject to credit assessment. In the event that we do not take up this option then payment shall be made in within 28 days of the application/invoice date. **Retention shall not be deducted.** In the event that payment is not received within the stipulated time, interest on the outstanding moneys shall be paid at 8% per annum. Ownership of materials shall not pass to the Employer until full payment is received. No deduction or "set-off" shall be made from sums due to us unless they are accepted by us in writing or where such amount has been awarded against us by the decision of any Court or Arbitrator, and where such an amount is related directly to this particular contract.
- 8. Design** We accept that we are required to exercise all reasonable skill and care in our design of the Sub-Contract Works and our selection of materials. It must be clearly understood that should the ground conditions actually encountered be as such as to warrant modifications to the scheme and quantities of work now proposed, the price and programme time would be subject to a corresponding adjustment. If at any time during the progress of the works, we consider that variations to the scheme presently proposed are required, we would advise you of the technical reasons for our revised proposals and seek your approval to them. We will not accept responsibility for settlement and consequential loss due to either Settlement or movement due to underpinning, mine workings or cavities, use of explosives, springs, artesian water or to the presence of acids or other deleterious matter, and loss of support due to subsequent workings or other causes outside our immediate control or knowledge. OR Any fault in the junction between piling and subsequent works. Pile Capacities have been determined from the loads indicated to us and, unless specifically stated, no allowance has been made for negative skin friction, ground heave or other forces.
- 9. Disputes Resolution** All disputes should be registered within 14 days and if unresolved will be referred to arbitration under the Arbitrators' Short Form Arbitration Rules 1991. Late payment does not constitute a dispute and would be pursued in the County Courts.
- 10. Opening Up and Testing of the Works** Where any opening up for inspection, testing and reinstatement is instructed and the work, the subject of such instruction, is found to be in accordance with the Contract, then any costs and expense in respect thereof shall be added to the Contract Sum together with the granting of an appropriate extension of time for completion of the Works
- 11. Attendances** listed separately should be provided and maintained throughout piling works. You should note that our Risk Assessment for this project will specifically include reference to the Employers responsibilities in respect of certain issues identified in this Attendance schedule.
- 12. Insurances** This tender is based on the provisions of insurances in the amounts and kinds set out in our schedule (available on request). Our liability in the event of our design or works being found to be negligently executed whether arising in tort, contract or otherwise shall be limited to the limit of any insurance effected by us as set out in our schedule. It shall be the sole responsibility of our Employer to arrange such other insurance as he shall consider appropriate.