



GROUND FLOOR PLAN  
showing proposed pile and r.c. slab underpinning details  
1:50

PILES		
PILE NO	NON-FACTORED LOAD IN kN	CUT OFF LEVEL IN M *
P.1	160	see section
P.2	135	see section
P.3	125	see section
P.4	90	see section
P.5	100	see section
P.6	160	see section
P.7	145	see section
P.8	65	see section
P.9	130	see section
P.10	105	see section
P.11	200	see section
P.12	115	see section
P.13	75	see section
P.14	50	see section
P.15	50	see section
P.16	75	see section
P.17	95	see section
P.18	85	see section
P.19	80	see section
P.20	80	see section
P.21	40	see section
P.22	55	see section
P.23	85	see section
P.24	35	see section
P.25	70	see section
P.26	135	see section
P.27	70	see section
P.28	80	see section
P.29	195	see section
P.30	160	see section
P.31	120	see section
P.32	155	see section
P.33	95	see section
P.34	110	see section
P.35	60	see section
P.36	95	see section
P.37	160	see section
P.38	70	see section
P.39	60	see section
P.40	40	see section
P.41	60	see section
P.42	45	see section
P.43	25	see section
P.44	135	see section
P.45	90	see section
P.46	95	see section
P.47	50	see section
P.48	25	see section
P.49	45	see section
P.50	75	see section
P.51	70	see section
P.52	85	see section
P.53	65	see section
P.54	65	see section
P.55	70	see section
P.56	95	see section
P.57	175	see section
P.58	105	see section
P.59	55	see section
P.60	50	see section
P.61	85	see section
P.62	70	see section
P.63	125	see section
P.64	135	see section
P.65	185	see section
P.66	50	see section
P.67	45	see section
P.68	100	see section
P.69	80	see section
P.70	80	see section
P.71	135	see section
P.72	100	see section
P.73	135	see section
P.74	135	see section
P.75	125	see section
P.76	185	see section
P.77	75	see section
P.78	65	see section
P.79	75	see section
P.80	75	see section
P.81	135	see section
P.82	50	see section
P.83	-15 (tension)	see section
P.84	50	see section
P.85	-15(tension)	see section

- NOTES:
1. The copyright of this drawing shall remain vested in CECp.
  2. Do not scale this drawing.
  3. CECp are not responsible for any temporary works.
  4. The entire works shall comply with the relevant British Standards, current Building Regulations and Good Building Practice.
  5. This drawing is to be read in conjunction with all the relevant tender documents.
  6. For drain survey referred to Drain Scan's Report dated 8 October 2019.
  7. For details of trial pits and shallow bore holes excavated/bored on 20/08/19 refer to CECp report dated October 2019, pages 9 to 14 and K4 report (2A4) dated 05/09/2019.
  - 8.This drawing is for estimate only.
  9. The final drawings and design calculations shall be prepared by Contractor and submitted for the Local Authorities Approval under 12 years Insurance backed Contractor's Guarantee.
  10. Piles shall be bored non-displacement, cast in situ concrete with full length reinforcement; to be designed by contractor using factor of safety 3 to carry loads as stated, taking into account proximity of trees.
  11. Prior to commencement of works, the Contractor is to locate all services. Extra care shall be taken when excavating and/or boring close to services.
  12. Materials:  
concrete in foundation- C40 to BS8110 to be made from Sulphate Resisting Portland cement; adopt Class DS-3 conditions for all concrete mix design (to BRE Special Digest 1:2005).
  13. Min cover to reinforcement 50 mm.
  14. Contractor shall be responsible for all temporary supports to comply with BS 5975. In any event, during the execution of the works, at no time, shall more than 1 m length of wall be left unsupported.
  15. All details/dimensions shall be verified on Site by Contractor. Any unforeseeable structural irregularities revealed during works shall be verified to the Engineer for further examination.

REV.	DATE	AMENDMENTS
JOB NAME		
87 Green Lane, Northwood, HA6 1AE		
DRG. NAME		
Proposed underpinning - r.c. raft/slab on piles - PLAN		
CONSULTING ENGINEERS' CO-PARTNERSHIP Chartered Structural Engineers 1528, LONDON ROAD, NORBURY, LONDON SW16 4EU T: 020 8679 5621 E:mail@cecp.co.uk		
SCALE @ A1	DATE	DRAWN
1:50	May 2021	tlk
DRG. No	GL.87/01	REV. -



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87 Green Lane,  
Northwood, HA6 1AE

Proposed underpinning – r.c.  
raft/slab on piles – SECTIONS

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SCALE @ A1 1:20	DATE May 2021	DRAWN tlk
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