

PILING AND FOUNDATION PLAN
Scale 1:50

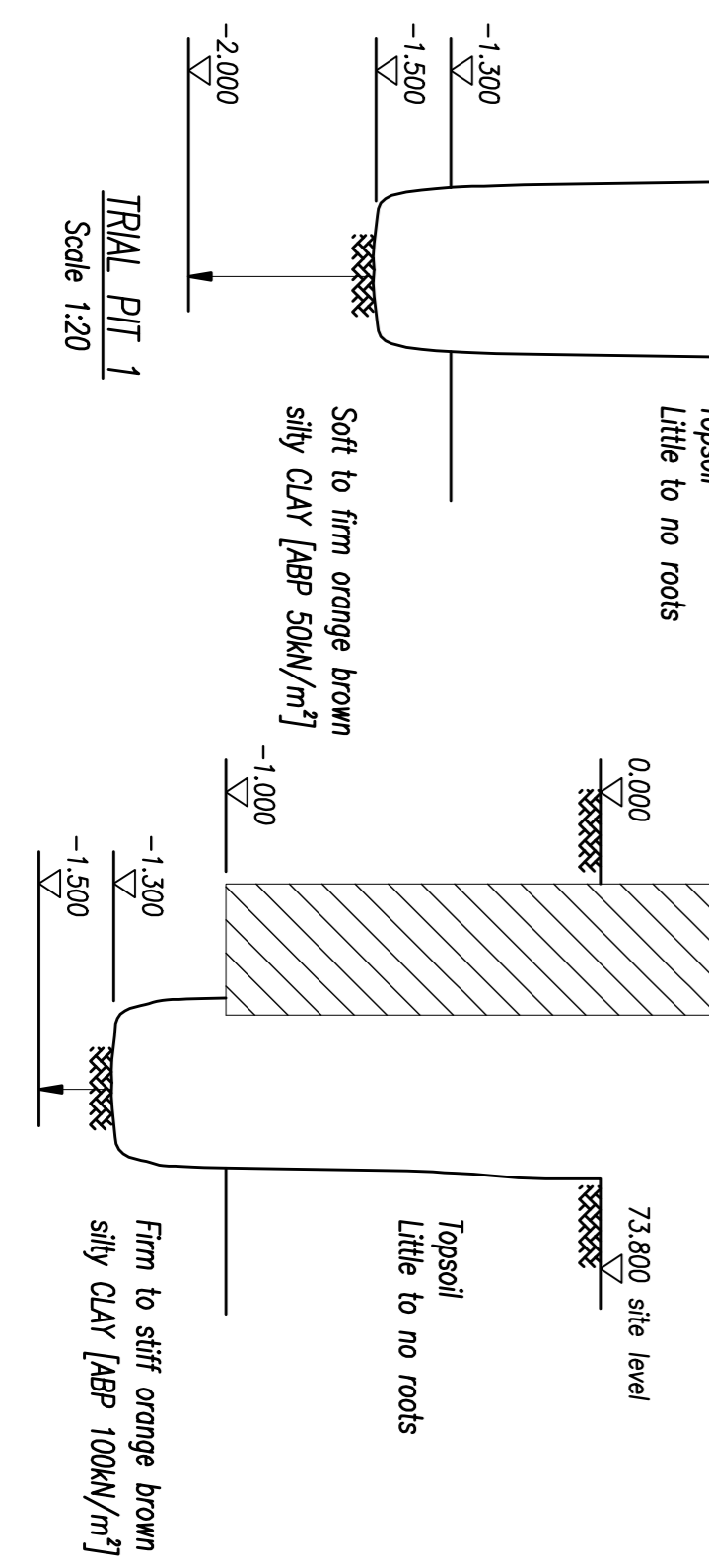
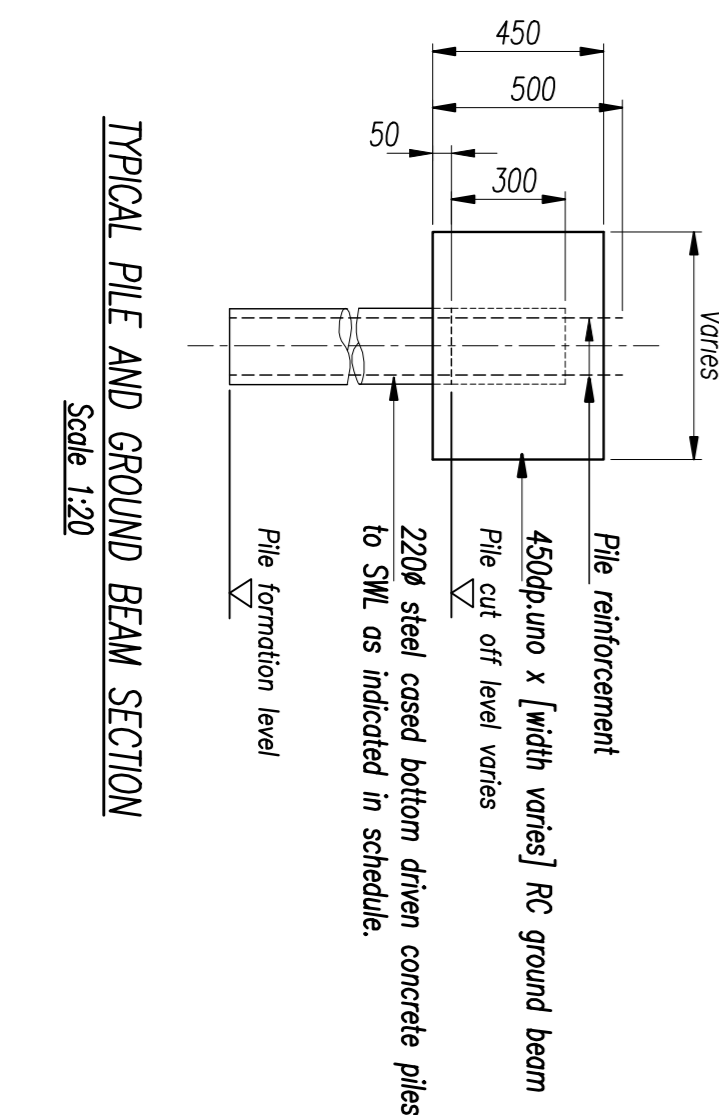
16. 220w steel cased bottom driven concrete piles to SWL as indicated in schedule. Approved Specialist Piling Contractors are advised to visit site prior to tendering to confirm site access and headroom adequacy.

Settling out
Piles dimensions quoted are based on non dimensional Architects drawings. The Contractor is to ensure the settling out is correct prior to works commencing on site.
New ground beams are centred on grid lines, centre of walls over and as dimensioned on plan.

Pile no.	SWL MN	Pile cut-off level	Top of beam TOC
1.	106	75.340	75.740
2.	105	75.340	75.740
3.	64	75.340	75.740
4.	64	75.340	75.740
5.	80	75.340	75.740
6.	80	75.340	75.740
7.	104	75.340	75.740
8.	104	75.340	75.740
9.	200	75.340	75.740
10.	134	75.115	75.515
11.	134	74.890	75.290
12.	75	74.890	75.290
13.	75	74.890	75.290
14.	178	74.890	75.290

Pile no.	SWL MN	Pile cut-off level	Top of beam TOC
15.	182	75.340	75.740
16.	182	75.340	75.740
17.	182	75.340	75.740
18.	182	75.115	75.515
19.	182	74.890	75.290
20.	182	74.665	75.290
21.	125	74.665	75.290
22.	125	74.665	75.290
23.	40	74.665	75.290
24.	115	74.665	75.290
25.	115	74.665	75.290
26.	75	74.440	74.840
27.	75	74.440	74.840
28.	80	74.440	74.840

Pile no.	SWL MN	Pile cut-off level	Top of beam TOC
29.	86	74.440	74.840
30.	43	74.440	74.840
31.	43	74.440	74.840
32.	80	74.215	74.840
33.	86	74.215	74.840
34.	43	73.990	74.615
35.	43	73.990	74.615
36.	43	73.990	74.615
37.	43	73.990	74.615
38.	75	73.990	74.390
39.	75	73.990	74.390
40.	75	73.990	74.390
41.	75	73.990	74.390
42.	75	73.990	74.390



- GENERAL NOTES**
- This drawing is subject to copyright.
 - This drawing to be read in conjunction with the latest revision of M A Howard Associates Ltd. drawings and calculations referenced 32781 and relevant Architects drawings and reports.
 - Do not scale from this drawing. All settling-out to dimensions shown and on Architect drawings and by site measurement. Any discrepancies discovered on site that would affect details indicated on this drawing to be brought to the attention of M A Howard Associates Ltd. for further instructions.
 - All work to be carried out in accordance with all current Health and Safety legislation and approved Codes of Practice and Building Regulations.
 - All proprietary materials to be used strictly in accordance with manufacturers instructions and recommendations.
- PILING**
- The work indicated on the pile layout drawing should be constructed in accordance with the Institution of Civil Engineers specification for piling.
 - Piles shall be constructed within the following tolerances:
Position of cut-off level - 75mm.
 - The piles shall be designed by the Piling Contractor to support working loads indicated on the drawing including negative skin friction with a factor of safety of the ultimate load capacity of not less than 3.0. Settlement of working load shall not exceed 15mm.
 - Piles shall be cast 450mm above down cut-off level.
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 - The reinforcement shall project a minimum of 600mm into the ground beam and shall be bent down into the beam.
 - Pile integrity tests shall be undertaken on all of the piles.
 - Piles shall be 220mm bottom driven steel tubes formed with concrete cast in place complying with the requirements of Class A-1.
- Groundworks**
- The integrity of all excavations is to be maintained at all times by the Contractor using trench props, temporary works and all distributed ground shall be reinstated with FN2 mass concrete to the approval of the Engineer.
 - The removal of water from the excavations and the site is the responsibility of the Contractor who must satisfy himself of the groundwater conditions and make appropriate provisions.
 - New drain runs under the ground floor slab shall be backfilled within 6 hours of excavation.
 - All excavations shall be blinded with 50mm FN2 concrete.
 - All reinforced concrete to be cast on concrete building and formed sides to prevent contamination of the concrete with soil and ensure concrete cover to reinforcement.
 - Where existing redundant structures are encountered in the ground remove and backfill with granular fill material or FN2 concrete to be approved with all relevant drainage.
 - Inspection chambers, earthing/lighting protection requirements MASS CONCRETE.
 - Concrete grade shall be:
blinding and filling of soft spots - FN2.
REINFORCED CONCRETE.
 - Concrete to be grade C28/35 in accordance with the requirements of BS5900-2.
 - Minimum cement content 300kg/cubic metre cement or combination group - CEM1.
 - Maximum free water/cement ratio to be 0.8 consistency Class S3.
 - Maximum aggregate size to be 20mm.
 - Concrete to be compacted in position using immersion vibration poles.
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 - Unless noted otherwise, all reinforcement to be high yield in accordance with BS4443:2005, ductility Class A, B or C for bars up to and including 12mm and ductility Class B or C for adequate flow in max. lifts of 3 courses.
 - Foundation TOC 74.000
 - 1000x300dp. RC35 concrete base reinforced with A393 mesh in bottom, 40 cover, on 50 concrete blinding.
 - Reinforced concrete hollow block retaining wall.
 - 215 7N/mm² blocks reinforced with H16 bars @ 225c/c in voids and H6 horizontal lacer bars @ 225c/c set in bed joints. Blocks laid in 1:5:4 cement/sand with voids filled with 1:3:2 cement/sand/10mm aggregate (slump 100mm ±25mm for adequate flow) in max. lifts of 3 courses.
 - Foundation TOC 74.000
 - 1000x300dp. RC35 concrete base reinforced with A393 mesh in bottom, 40 cover, on 50 concrete blinding.
 - Unless noted otherwise, concrete cover to outermost reinforcement:
Ground beams 50mm all faces
Slabs 40mm
 - Minimum gaps in reinforcement shall be 50 x Ø of bar.
 - Contractor is to provide all necessary chairs and spacers in accordance with BS7913 Part 1 & 2 to ensure cover is maintained as concrete is placed.

job No	32781	draw No	01	rev	A
date	April 2014	scale	1:50.20 @ A1	drawn	CHH
drawn	CHH	filename	32781-01.A		

A 21.05 CHH TENDER ISSUE

rev. date by description

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MAHA

Client: Mr. and Mrs. J Newman
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job title: New dwelling in rear garden of 41 Conyngre Road

draw title: PILING, FOUNDATION AND BASEMENT PLAN