

Email:enquiries@fastrackgroup.co.uk Web: www.fastrackgroup.co.uk

197-199 High Street, Maldon, Essex CM9 5BU

Appendix No: Fax: 0844 3358907 FSI Ref:

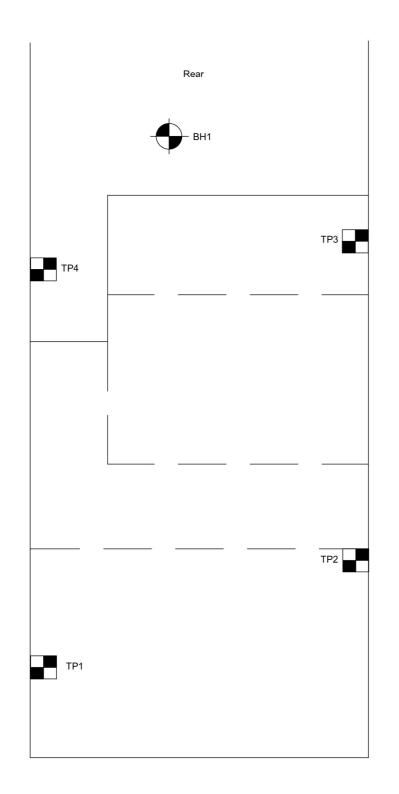
27798

1

SITE PLAN

Property Address: 161 Arlington Road, Camden, London, NW1 7ET

Client Claim Ref: N/A Survey date: 12/02/2024 Operative: SE1



Front

Scale:	Drawn by
NTS	TL



















FASTRACK Telephone: 0844 3358908

197-199 High Street, Maldon, Essex CM9 5BU

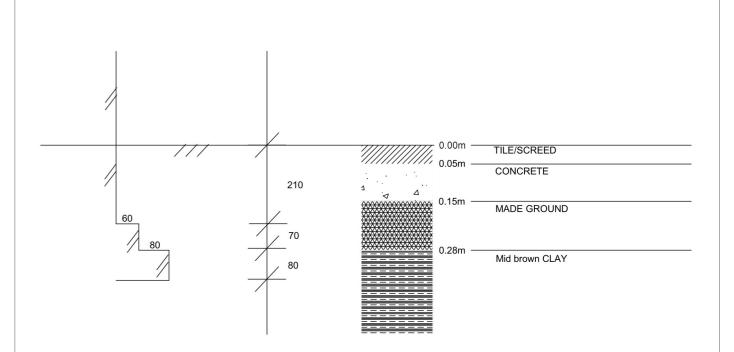
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TRIAL PIT 1

Property Address: 161 Arlington Road, Camden, London, NW1 7ET Client Claim Ref: N/A Operative: SE1 Survey date:12/02/2024



D1 @ F.L. (0.42m) Founding strata: Mid brown CLAY

Trial Pit Location: Drawn by: TL Scale: 1:10

Appendix No:

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27798

D= small disturbed sample, B= large bulk sample, U= undisturbed sample, MP= mackintosh proble blow counts, V= shear vane reading (kPa)



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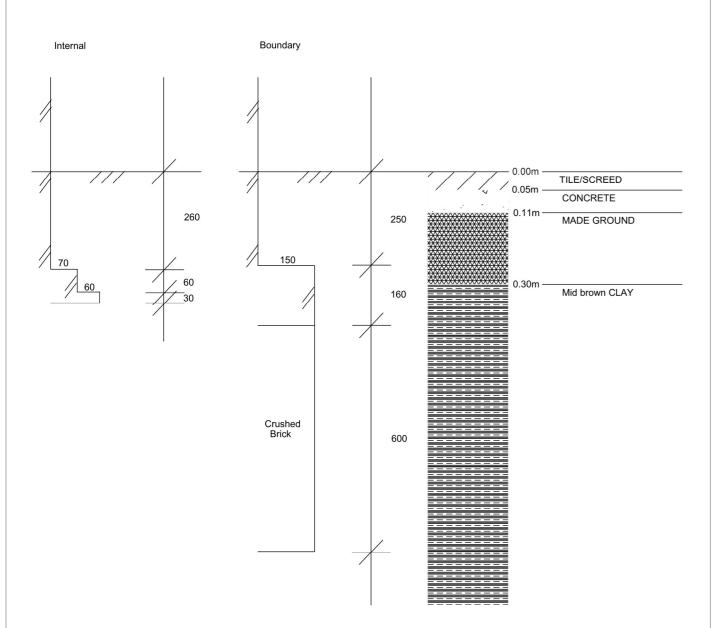
Web: www.fastrackgroup.co.uk

Appendix No: 2 27998 FSI Ref:

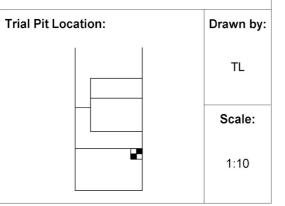
TRIAL PIT 2

Property Address: 161 Arlington Road, Camden, London, NW1 7ET

Client Claim Ref: N/A Operative: SE1 Survey date:12/02/2024



D1 @ F.L. (1.01m) Founding strata: Mid brown CLAY



D= small disturbed sample, B= large bulk sample, U= undisturbed sample, MP= mackintosh proble blow counts, V= shear vane reading (kPa)



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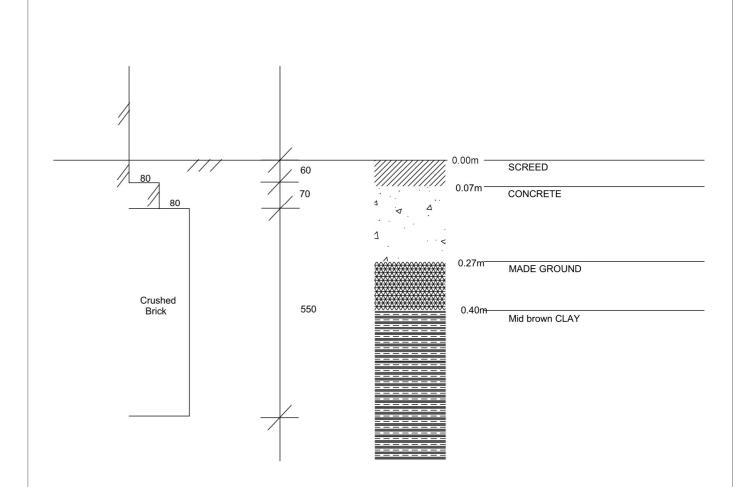
2

27798

Web: www.fastrackgroup.co.uk

TRIAL PIT 3

Property Address: 161 Arlington Road, Camden, London, NW1 7ET Client Claim Ref: N/A Survey date:12/02/2024 Operative: SE1



D1 @ F.L. (0.68m) Founding strata: Mid brown CLAY **Trial Pit Location:**

Drawn by: TL

Scale:

1:10

D= small disturbed sample, B= large bulk sample, U= undisturbed sample, MP= mackintosh proble blow counts, V= shear vane reading (kPa)



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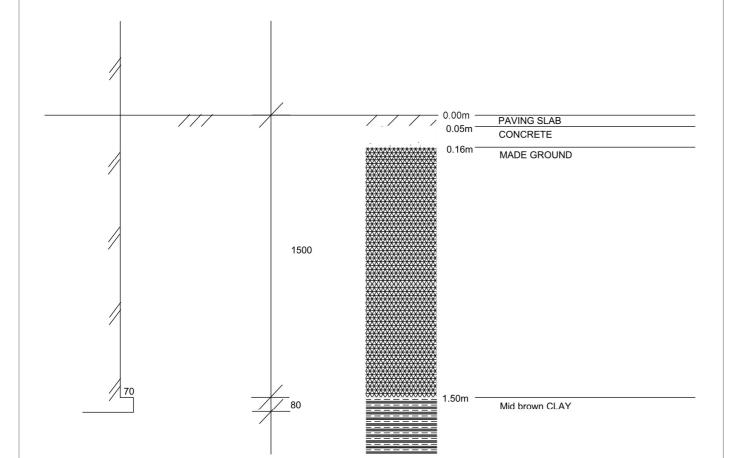
Appendix No: 2 27798 FSI Ref:

TRIAL PIT 4

Web: www.fastrackgroup.co.uk

Property Address: 161 Arlington Road, Camden, London, NW1 7ET

Client Claim Ref: N/A Operative: SE1 Survey date:12/02/2024



D1 @ F.L. (1.58m) Founding strata: Mid brown CLAY

Trial Pit Location:	Draw	n by:
		ΓL
	Scale) :
	1:	20

D= small disturbed sample, B= large bulk sample, U= undisturbed sample, MP= mackintosh proble blow counts, V= shear vane reading (kPa)

	oui wa	ilis condon constru	ction Eta						
		n Situ Testing	Depth (m) Legend		Stratum Description				
Depth (m)	Туре	Results	(111)	·///x					
			0.12		TOPSOIL				
			0.12		MADE GROUND				
			0.45						
0.50	D	\/ (I-D-) - 20	0.40	<u> </u>	Mid brown CLAY				
		V (kPa) = 38 V (kPa) = 38							
		, , ,							
1.00	D			<u> </u>					
1.00		V (kPa) = 60							
		V (kPa) = 62							
1.50	D	V/(I.D.) 70							
		V (kPa) = 76 V (kPa) = 80		F					
		,		<u> </u>					
				<u> </u>					
2.00	_D								
2.00		V (kPa) = 100		<u> </u>					
		V (kPa) = 104	2.20		Mid harring again CLAV				
					Mid brown sandy CLAY				
					2.40m - Mid brown CLAY begins to show grey mottling.				
2.50	D	V (I-Da) = 404							
		V (kPa) = 124 V (kPa) = 130							
		, ,							
3.00	D								
0.00		V (kPa) = 138							
		V (kPa) = 140							
3.50	D	V (UD-) - 440							
		V (kPa) = 140							
4.00	D								
		V (kPa) = 140							

4.90m - Standing water

MP - Mackintosh Probe Test

End of Borehole at 5.000m

AGS

Fastrack Site Investigations Ltd Unit 9, Tyndales Farm

Southend Road

Maldon CM9 6TQ

27798

161 Arlington Road, Camden, London, NW1 7ET

Fourwalls London Construction Ltd

Project No.

FASTRACK

4.50

5.00

Key: D - Disturbed Sample

V (kPa) = 140

V (kPa) = 140

V - Insitu Vane Test

Remarks: Borehole closed at 5.00m upon completion.

No roots observed.

5.00

Project Name:

ocation:

Client:

Water Strikes 161 Arlington Road

Borehole No.

BH1

Sheet 1 of 1

Hole Type

BH

Scale

1:27

Logged By

SE1

Borehole Log

Site Date:



Tel: 01245 223033

Fax: 0844 3358907

Appendix No: FSI Ref:

3 27798

197 High Street, Maldon, Essex, CM9 5BU

Web: www.fastracksiteinvestigations.co.uk

LABORATORY RESULTS

Email: enquiries@fastrackgroup.co.uk

Property Address: 161 Arlington Road, Camden, London, NW1 7ET

SA	MPLE DETAILS	ANAL	ANALYSIS REQUESTED				
Investigation date:	12/02/2024	Moisture Content	√	PSD	J		
Sample details:	Bags as received	Liquid Limit	✓	Soil Suction			
Samples received:	13/02/2024	Plastic Limit	√	Shear Strength			
Schedule recieved:	13/02/2024	Plasticity Index	√	Contamination			
Samples tested:	14/02/2024-19/02/2024	Root ID		Root/Tree DNA			
Results reported:	19/02/2024			No roots found			

TEST DETAILS

General

Sample descriptions were written in accordance with BS 5930:1999.

Samples were prepared in accordance with BS 1377: Part 1: 1990, section 7

Samples from this contract will be retained for 1 calender month following the issue of this report unless otherwise notified

Written approval is required from Fastrack Site Investigations Limited to reproduce report in full. The results shown within this report only relate to the samples tested

Moisture Content

Samples were tested in accordance with BS 1377: Part 2: 1990, section 3.2 (Oven drying method)

In accordance with Note 1 to paragraph 3.2.4 of BS 1377 Part 2 1990; these moisture contents have been corrected to give the equivalent moisture content of the fraction passing the 425µm sieve, to enable comparison with the liquid & plastic limits. (If condition of test is 'natural' the retained percentage is an estimated value, if condition is 'washed' the percentage is a measured value).

Samples are dried at 105-110°C unless otherwise stated.

Atterberg Limits

Samples were tested in accordance with BS 1377: Part 2: 1990, section 4.3 (4 drop LL), 4.4 (1 drop LL), 5.3 (PL) and 5.4 (PI) Test results on samples with a sand content, may show less accurate results. If condition of test is 'washed' results relate to the fraction passing the 425µm sieve only.

* Driscoll's rules deem the soil to be desicated where the moisture content is less than the value calculated using driscoll's rule 1 and/or 2

Particle Size Distribution

Samples were tested in accordance with BS 1377: Part 2: 1990 section 9.2 (Wet sieving method)

Undrained Shear Stength

Samples were prepared in accordance with BS 1377: Part 7: 1990 section 8.3 and testing in accordance with BS 1377: Part 7: 1990: section 8.4 (undrained shear strength in triaxial compression without measurement of pore pressure (UU))

Soil Suction

Samples were prepared and tested based on the BRE digest No:IP4/93 (Corrected). 'A method of determining the state of desiccation in clay soils.' (Filter paper method).

Test results on samples with a sand or silt content, may show less accurate results. Deviation to standard procedure - Polythene bags are not used from weighing filter papers.

Page 1 of 2



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Appendix No: FSI Ref:

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(CE)

3 27798

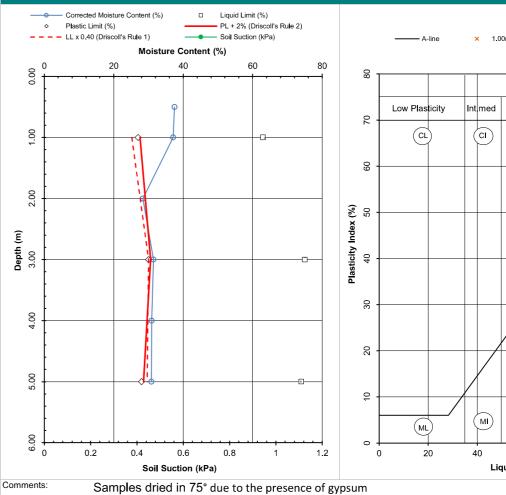
LABORATORY RESULTS

Property Address:

Reported by

161 Arlington Road, Camden, London, NW1 7ET

									BORE	EHOLE 1
		Corr.					0/	Soil	Condition	
oth	MC	MC	LL	PL	PI	Class	% Retained	Suction	of test	Soil Description
1)	(%)	(%)	(%)		(%)	ਠੌ	(425µm)	(kPa)		Our Description
0	37.5	37.5					0		Natural	Brown silty CLAY
0	35	37.12	63	27	36	СН	5.72		Natural	Brown silty CLAY containing grey and orange mottle and gravel
0	28.4	28.4					0		Natural	Brown silty CLAY containing grey and orange mottle
0	31.4	31.4	75	30	45	CV	0		Natural	Brown silty CLAY containing grey mottle
0	30.9	30.9					0		Natural	Brown silty CLAY containing grey mottle
0	30.8	30.8	74	28	46	CV	0		Natural	Brown silty CLAY containing grey mottle and gypsum
T										
1										
1										
				e Content	(%)		Liquid Limit	(%)		
	♦	Plastic L					PL + 2% (D		∋2)	
		LL x 0.40) (Driscoli				— Soil Suction	ı (kPa)		—————————————————————————————————————
	0		00	Mo	isture C				00	
	3 		20			10		, <u> </u>	80	8 1
	٠ <u>ا</u> ١			-	-	'	[- [Upper Plasticity Range



						<u>8</u>				<mark>×</mark> /			
						30							
					-	- 20							
						0 - 10	(ML)	MI	MH	MV	ME	
0.2	0.4	0.6	0.8	1	1.2		0 2	:0	40	60	80	100	120
	Soil S	uction (kPa	a)						Lic	quid Limit (%)		
San	nples drie	d in 75°	due to t	he prese	nce of gy	psum							
<i>/</i> :	Issy Acerbis					Checked by: Jade McLellan							
					Page	e 2 of 2							



Unit A2 Windmill Road **Ponswood Industrial Estate** St Leonards on Sea **East Sussex TN38 9BY**

Telephone: (01424) 718618

cs@elab-uk.co.uk info@elab-uk.co.uk

Certificate of Analysis

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 24-52393

1 Issue:

Date of Issue: 21/02/2024

Martin Rush Contact:

Fastrack Site Investigations Ltd **Customer Details:**

197-199 High Street

Maldon

EssexCM9 5BU

Q24-04367 **Quotation No:**

5000/27798 Order No:

Customer Reference: 27798

Date Received: 16/02/2024

Date Approved: 21/02/2024

161 Arlington Road, Camden, London, WW1 7ET Details:

Approved by:

Tim Reeve, Technical Coordinator





Sample Summary

Report No.: 24-52393, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
353075	BH1 D2 1.00	12/02/2024	16/02/2024	Silty clayey loam	
353076	BH1 D4 2.50	12/02/2024	16/02/2024	Silty clayey loam	

The Environmental Laboratory Ltd. Reg. No. 3882193 Page 1 of 5 The Environmental Laboratory Ltd. Reg. No. 3882193 Page 2 of 5







Report No.: 24-52393, issue number 1					
		ELAB	Reference	353075	353076
	(Customer	Reference	D2	D4
		:	Sample ID		
		Sa	mple Type	SOIL	SOIL
		Sampl	e Location	BH1	BH1
		Sample	Depth (m)	1.00	2.50
		Sam	pling Date	12/02/2024	12/02/2024
Determinand	Codes	Units	LOD		
Soil sample preparation paramet	ers				
Moisture Content	N	%	0.1	25.1	20.5
Material removed	N	%	0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None
Anions					
Water Soluble Sulphate	M	g/l	0.02	0.04	2.01
Miscellaneous					
pH	М	pH units	0.1	9.8	8.9

Tests marked N are not UKAS accredited.
The Environmental Laboratory Ltd. Reg. No. 3882193

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Method Summary Report No.: 24-52393, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Method Tested Number		Technique	
Soil						
рН	М	Air dried sample	19/02/2024	113	Electromeric	
Water soluble anions	М	Air dried sample	19/02/2024	172	Ion Chromatography	

The Environmental Laboratory Ltd. Reg. No. 3882193 Page 4 of 5







Report Information

Report No.: 24-52393, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
۸	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

MS

а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers
d	Sample not received in cooled condition
е	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

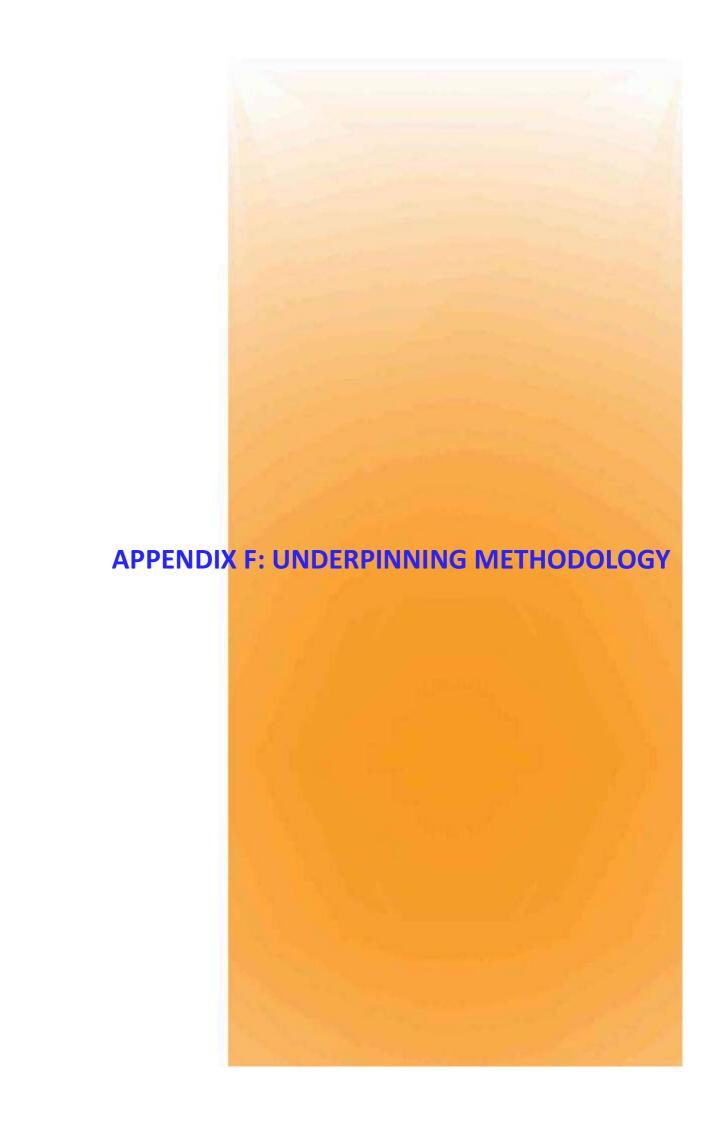
Sample Retention and Disposal

All soil samples will be retained for a period of one month All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

Mass Spectrometry

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total



*S 2930 - 161 ARLINGTON ROAD NW1*Nov 2024 – Rev 0



GENERAL UNDERPINNING SPECIFICATION NOTES

- The existing walls at basement level are assumed, based on historic London Building Acts, to be440mm thick with projecting brick corbels as foundation.
- 2. The existing walls to the main house shall be underpinned in mass concrete. The underpins shall transfer the vertical loads from the walls over to ground. Due to the shallow nature of the pins is minimal lateral earth loading on the pin.
- 3. Grade of concrete shall be C35 with minimum cement content 300kg/m³, maximum free water to cement ratio 0.60, slump 100mm.
- 4. Underpinning bases shall be excavated such that:
 - the stem width of the pin is to match the thickness of the existing wall over.
 - The base width of the pin is to match the width of the existing footing over.
 - the length of the pin should not exceed 1000mm unless agreed with the engineer.
- 5. The sequence of the underpinning shall be such that any given underpin will be completed, dry-packed and a minimum period of 48 hours lapsed before an adjacent excavation commenced to form another underpin.
- 6. In the event that the existing foundations to the wall are found to be unstable, sacrificial steel jacks shall be installed underneath the foundation to prop the bottom few courses of bricks. These steel jacks shall be left in place and shall be incorporated into the concrete stem.
- 7. In the event that the ground is unstable, lateral propping shall be provided as required to the rear of the excavation and to the sides of the excavated working trench.
 - The earth faces of the excavation shall be propped using trench sheeting or cementitous back boards and propped as appropriate.
 - Non shrink cementitious grout will be poured behind the backshutter to fill up the voids behind the back – shutters.
- 8. The excavation for any underpin section shall be dug and the concrete to the pin poured within one day. Excavation should not be commenced if concrete cannot be poured in the same day.
- 9. The underside of the existing foundations within the underpin excavation should be brushed clean of all loose dirt and debris prior to pouring the concrete. The concrete to the pin shall be poured up to a level within 50 75mm of the underside of the foundations.
- Sacrificial cementitous backshutters shall be used to the rear face of the excavation (i.e. underneath the wall) as instructed.
- 11. On the following day, the gap between the concrete and the underside of the existing foundation shall be drypacked with C35 concrete using 5 10mm coarse aggregate and "Combex 100" expanding admixture by Fosroc UK Ltd in accordance with their instructions.
- 12. Once the drypack has gained sufficient strength, any protrusions of the footings into our site shall be carefully trimmed back using hand tools to avoid causing any damage to the foundation. The protrusions shall be trimmed back to be flush in-line with the face of the wall above.
- 13. A minimum of 48 hours shall be allowed before adjacent sections are excavated to form a new underpin.
- 14. Adjacent underpins shall be connected using T12 dowel bars 600mm long, 300mm embedment each side, at 300mm vertical centres.