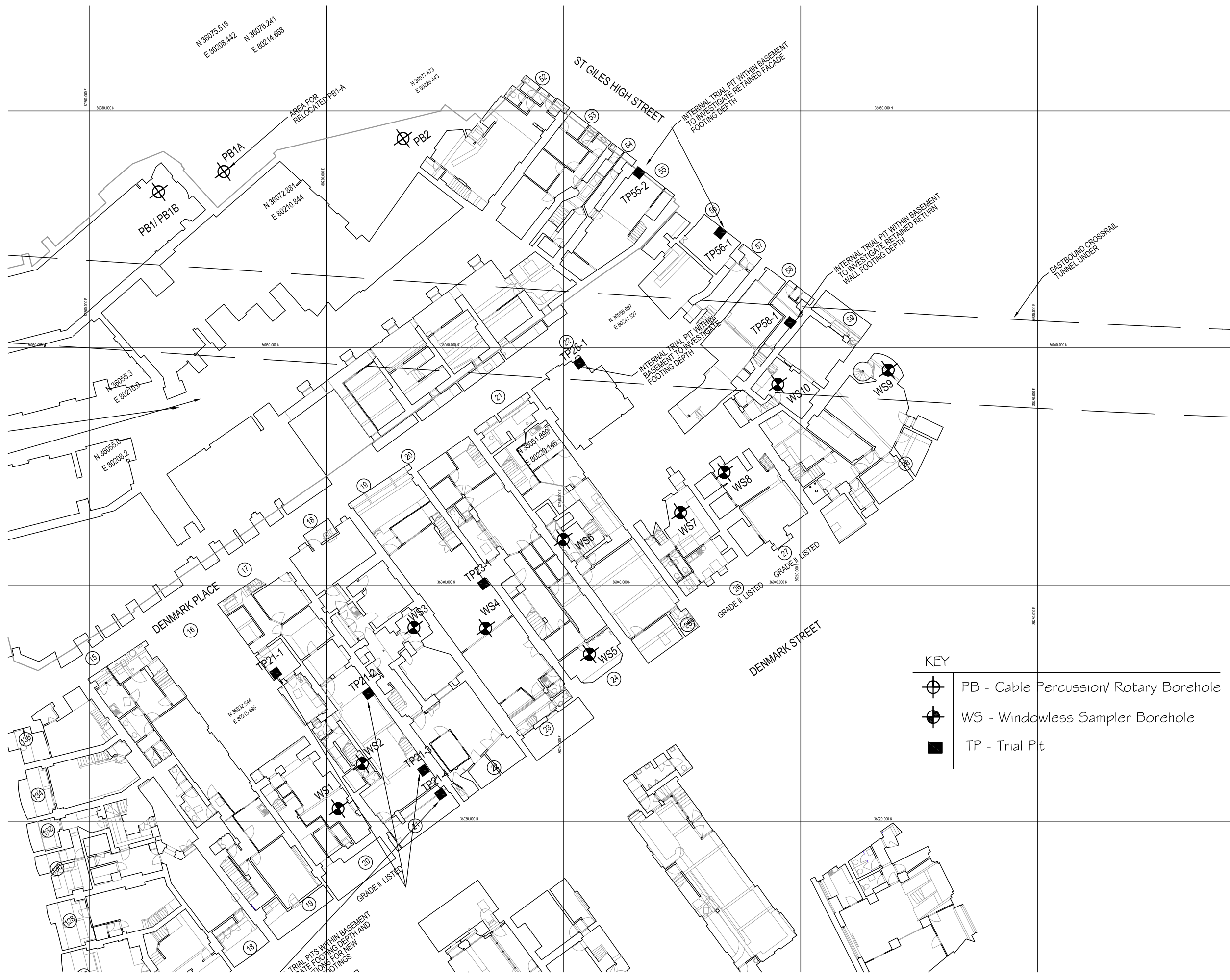





7. EXPLORATORY HOLE LOCATION PLANS



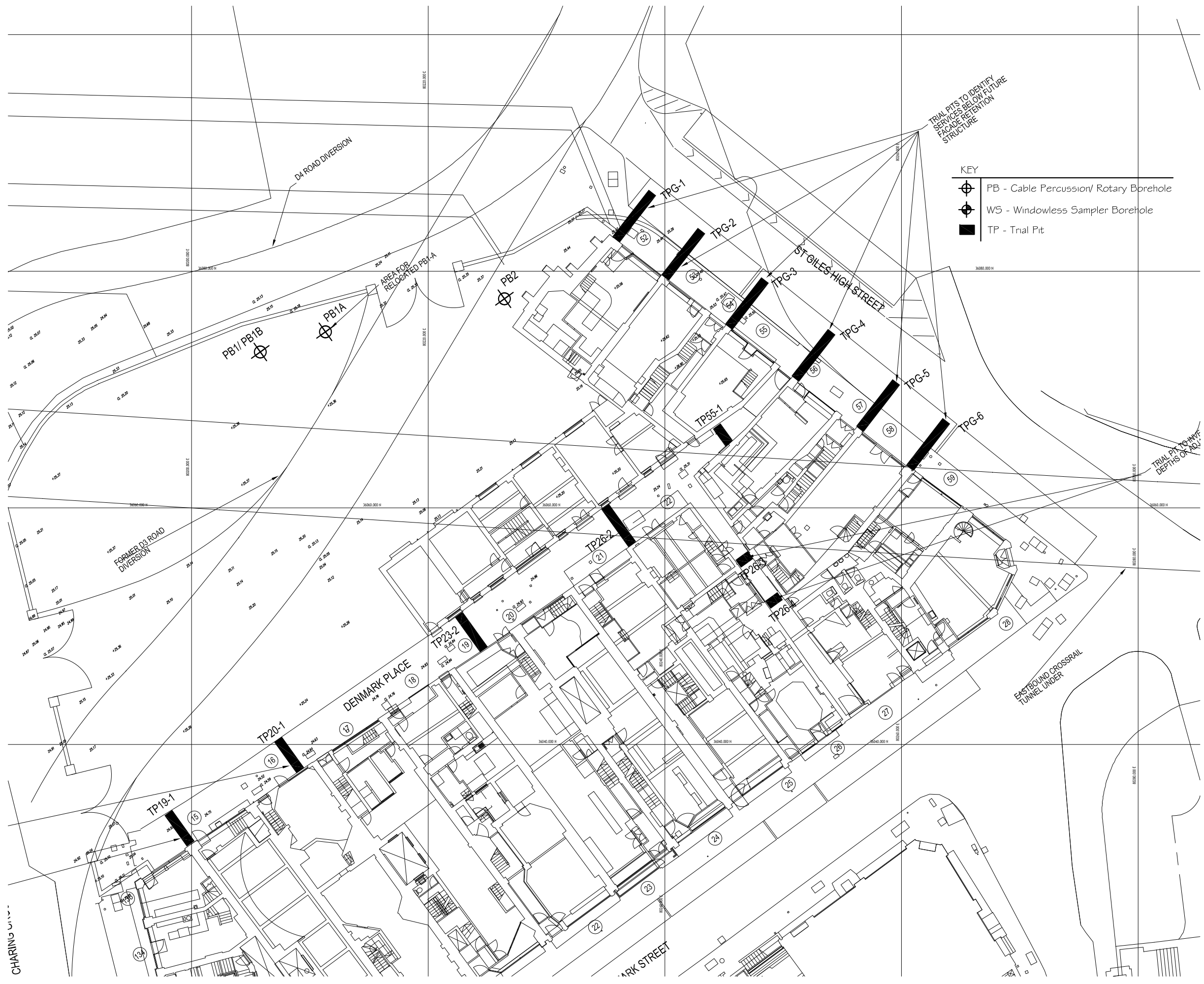
- KEY**
-  PB - Cable Percussion/ Rotary Borehole
 -  WS - Windowless Sampler Borehole
 -  TP - Trial Pit

NOTES
 1. This drawing should not be scaled.

No	Revision	Drawn	Checked	Passed	Date

CONCEPT SITE INVESTIGATIONS
 Unit 8, Warple Mews
 Warple Way London W3 0RF
 Tel: 020 8811 2880 Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client:	Consolidated Developments Ltd				
Project:	St Giles Circus				
Title:	North of Denmark Street Basement Location Plan				
Dwg. No:	142669/1a				
Status:	Issue				
Scale:	NTS				
Drawn	Checked	Passed	Date		
EV	OS	MD	March 15		



KEY

- PB - Cable Percussion/ Rotary Borehole
- WS - Windowless Sampler Borehole
- TP - Trial Pit

TRIAL PITS TO IDENTIFY SERVICES BELOW FUTURE FACADE RETENTION STRUCTURE

TRIAL PIT TO VERIFY DEPTHS OF AQUICLUDES

NOTES

1. This drawing should not be scaled.




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 Warple Way London W3 0RF
 Tel: 020 8811 2880 Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
 www.conceptconsultants.co.uk

Client:	Consolidated Developments Ltd				
Project:	St Giles Circus				
Title:	North of Denmark Street Ground Level Location Plan				
Dwg. No.:	142669/1b				
Status:	Issue				
Scale:	NTS				
Drawn	Checked	Passed	Date		
EV	OS	MD	March 15		



KEY

-  PB - Cable Percussion/ Rotary Borehole
-  WS - Windowless Sampler Borehole
-  TP - Trial Pit

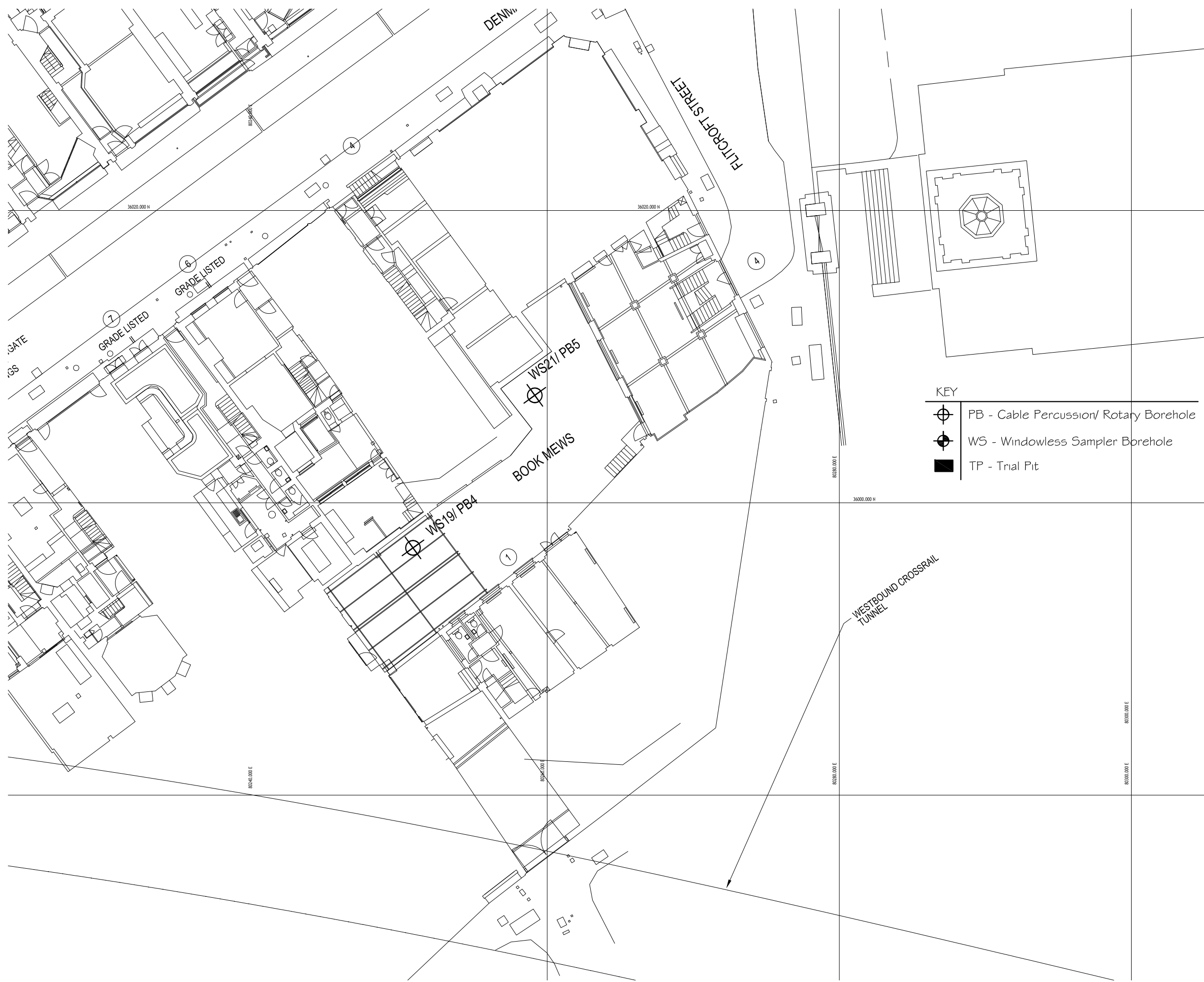
NOTES

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 Warple Way London W3 0RF
 Tel: 020 8811 2880 Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client:	Client:		
Project:	St Giles Circus		
Title:	South of Denmark Street Basement Location Plan		
Dwg. No:	142669/1c		
Status:	Issue		
Scale:	NTS		
Drawn EV	Checked OS	Passed MD	Date March 15



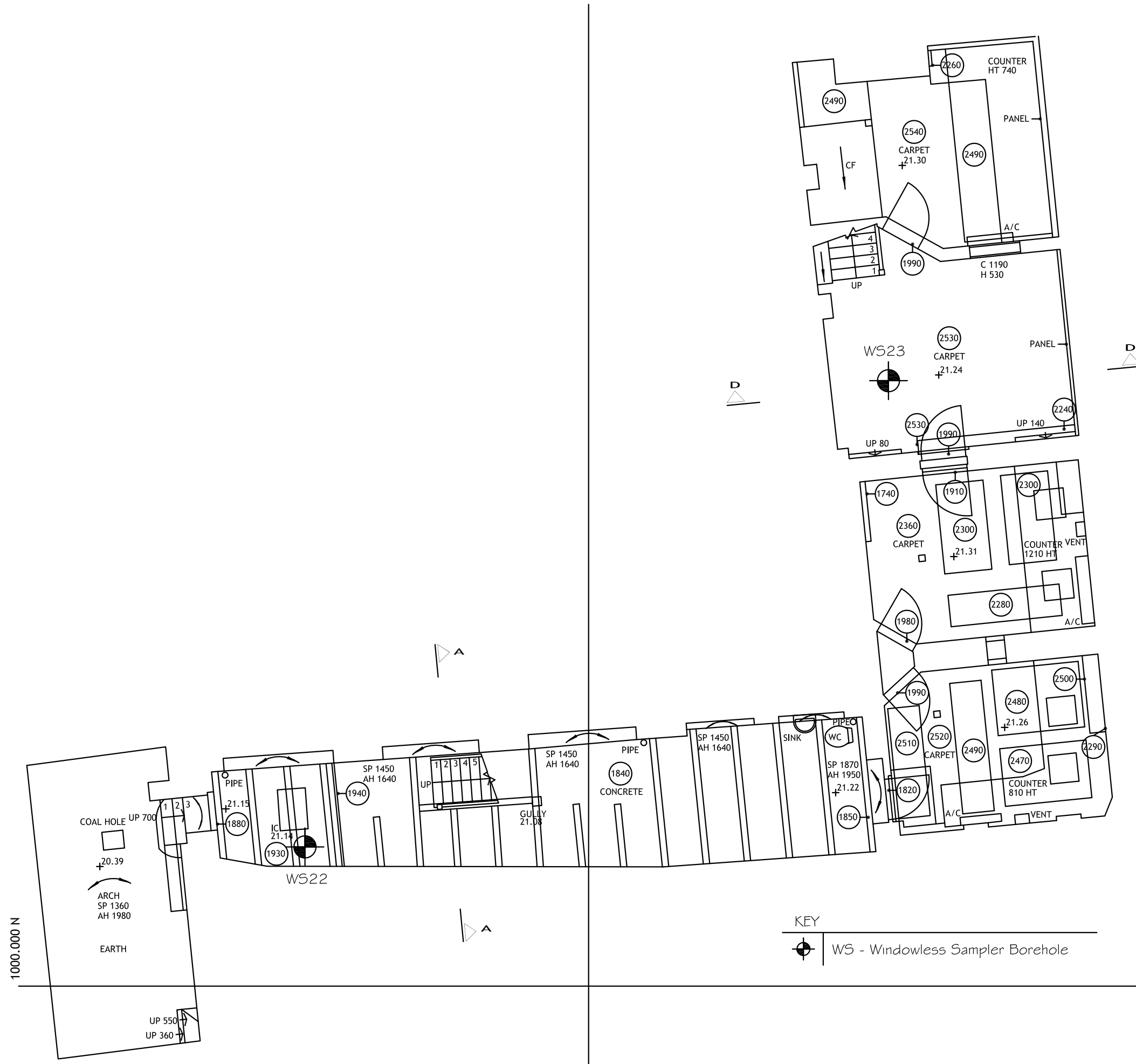
- KEY**
- PB - Cable Percussion/ Rotary Borehole
 - WS - Windowless Sampler Borehole
 - TP - Trial Pit

NOTES
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No	Revision	Drawn	Checked	Passed	Date

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 Unit 8, Warple Mews
 Warple Way London W3 0RF
 Tel: 020 8811 2880 Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client:	Consolidated Developments Ltd				
Project:	St Giles Circus				
Title:	South of Denmark Street Ground Level Location Plan				
Dwg. No:	142669/1d				
Status:	Issue				
Scale:	NTS				
Drawn	Checked	Passed	Date		
EV	OS	MD	March 15		



NOTES

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 Warple Way London W3 0RF
 Tel: 020 8811 2880 Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
 www.conceptconsultants.co.uk

KEY
 WS - Windowless Sampler Borehole

Client:	Consolidated Developments Ltd				
Project:	St Giles Circus				
Title:	&1 Endell Street Location Plan				
Dwg. No:	142669/1e				
Status:	Issue				
Scale:	NTS				
Drawn	Checked	Passed	Date		
EV	OS	MD	March 15		

8. CABLE PERCUSSION AND ROTARY BOREHOLE LOGS

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8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
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Client
Consolidated Developments Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	Shoring / Support
0.00	1.20	IP	04/11/2014	04/11/2014	AR	EA			Hand Excavated Cable Percussion Rotary	
1.20	3.30	CP	04/11/2014	05/11/2014	AR	EA				
3.30	55.30	RC	17/11/2014	24/11/2014	TC	AN				

WATER STRIKES					WATER ADDED		CHISELLING			
Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
							3.00	3.30	01:15:00	Concrete

HOLE		CASING	
Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	200	0.00	200
8.00	200	8.00	200
55.30	146		

ROTARY / DYNAMIC SAMPLING			
From (m)	To (m)	Blows	Recovery (%)
8.00	9.50		97
9.50	11.00		83
11.00	12.50		67
12.50	14.00		100
14.00	15.50		100
15.50	17.00		100
17.00	18.30		96
18.30	19.80		97
19.80	21.30		100
21.30	22.80		100
22.80	23.00		100
23.00	24.50		100
24.50	26.00		100
26.00	27.50		100
27.50	28.80		97
28.80	30.30		100
30.30	31.80		100
31.80	32.00		100
32.00	33.40		100
33.40	35.00		98
35.00	36.50		100
36.50	38.10		100
38.10	39.20		100
39.20	40.50		100
40.50	42.00		100
42.00	42.20		100
42.20	43.70		100
43.70	45.30		100
45.30	46.80		98
46.80	48.00		83
48.00	48.50		0
48.50	50.00		90
50.00	51.50		100
51.50	52.90		93
52.90	54.30		96
54.30	55.30		100

ROTARY FLUSH DETAIL				
From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour
8.00	31.80	Polymer	80	
31.80	48.00	Polymer	75	
48.00	55.30	Polymer	60	

INSTALLATION DETAILS					
Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
VWP		9.00			26/11/2014
VWP		17.00			26/11/2014
VWP		22.00			26/11/2014
VWP		30.00			26/11/2014

BACKFILL DETAILS			
Top (m)	Bottom (m)	Material	Backfill Date
0.00	0.50	Concrete / Flush Cover	26/11/2014
0.50	2.00	Bentonite Pellets	
2.00	9.00	Cement / Bentonite Grout	
9.00	17.00	Cement / Bentonite Grout	
17.00	22.00	Cement / Bentonite Grout	
22.00	30.00	Cement / Bentonite Grout	
30.00	55.30	Cement / Bentonite Grout	

Issue No 01

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London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
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Client
Consolidated Developments Limited

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
04/11/14	0.00		Dry		S	2.00	N50/0.16	9, 9 / 18, 25, 7	1.70	Dry
04/11/14	2.00	1.70	Dry		S	3.00	N50/0.255	7, 9 / 10, 11, 19, 10	3.00	Dry
05/11/14	2.00	1.70	Dry							
05/11/14	3.30	3.00	Dry							
17/11/14	3.30	3.00								
17/11/14	8.00	6.00								
18/11/14	8.00	6.00								
18/11/14	11.00	8.00								
19/11/14	11.00	8.00	1.10							
19/11/14	31.80	8.00	0.80							
20/11/14	31.80	8.00								
20/11/14	45.30	8.00								
21/11/14	45.30	8.00	0.80							
21/11/14	51.50	8.00	11.30							
24/11/14	51.50	8.00	7.00							
24/11/14	55.30	8.00	12.80							

GENERAL REMARKS

- Borehole aborted at 3.30m depth on the 05/11/2014 due to presence of concrete obstruction. Borehole moved to location PB01A. Rotary borehole carried out below 3.30m on the 17/11/2014.
- Rotary borehole drilled open hole between 3.30m and 8.00m.

KEY

SAMPLES

- ES - Environmental Sample (Tub, Vial, Jar)
- U - 100mm Diameter Undisturbed Sample
- UT - 100mm Diameter Thin Wall Undisturbed Sample
- U38 - 38mm Diameter Undisturbed Sample
- D - Disturbed Sample, B-Bulk Sample, BLK-Block Sample
- C - Core Sample, W-Water Sample, R-Root Sample

HOLE TYPES

- IP - Inspection Pit, TP-Trial Pit
- CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
- WS - Window Sampling, WSL-Windowless Sampling
- DC - Dynamic Coring

INSTALLATION DETAILS

- SPIE - Standpipe Piezometer
- SPGW - Groundwater Monitor Standpipe
- SPG/GW - Gas / Groundwater Monitor Standpipe
- VWP - Vibrating Wire Piezometer
- INC - Incliner

TESTS S/C-SPT / CPT, SV-Shear Vane, PP-Pocket Penetrometer, M-Mackintosh Probe

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue No 01

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8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 1 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill		
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result	
04/11/14		Dry						1.20	Brown sandy angular to rounded fine to coarse GRAVEL comprising flint, brick, concrete and plastic fragments and cobble sized brick and concrete fragments. Sand is fine to coarse. (MADE GROUND) ... with a fabric at 0.60m. ... becoming very sandy below 0.80m.	1.20-1.70	B01		9, 9 / 18, 25, 7		
04/11/14 05/11/14	1.70 1.70	Dry Dry						2.10	Brown slightly clayey sandy subangular to subrounded fine to coarse GRAVEL comprising flint, sandstone and mudstone fragments. Sand is fine to coarse. (MADE GROUND)	2.00 2.00-2.30	 D02	N50/ 0.16			
05/11/14 17/11/14	3.00 3.00	Dry						3.30	... becoming very sandy with wood fragments at 3.00m.	3.00 3.00-3.30 3.30	 D03 B04	N50/ 0.255			7, 9 / 10, 11, 19, 10
17/11/14	6.00							8.00	No Recovery.						... Rotary followed on below 3.30m. ... Borehole drilled open hole between 3.30m and 8.00m.

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Project
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Job No 14/2669	Date Started 04/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 2 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No		
18/11/14	6.00		97						Stiff, extremely closely to very closely fissured greyish brown slightly sandy slightly micaceous CLAY with occasional pockets (<55mm) and rare partings of light brown fine sand, occasional pockets (<40mm) and rare partings of dark grey sandy silt and occasional bioturbation. Fissures are generally subhorizontal and 45°-60°, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3ii) ... with rare pyrite nodules (<20mm) at 9.25m. ... with rare off-white fine to coarse sand sized shell fragments below 9.30m.	8.88-9.18	C05		
18/11/14 19/11/14	8.00 8.00	1.10	83					(7.00)	... with 1No very strong light brown cobble sized claystone fragment at 12.60m. ... with occasional pyrite nodules (<45mm) at 13.14m. ... with a band of strong light brown claystone recovered as: fine to medium gravel sized claystone fragments 13.53m.	10.00	D06		
			100						... becoming very closely fissured between 14.50m and 14.70m. Fissures are subhorizontal and 30°-70°.	11.50	D07		
			100					15.00	... with a band of very strong light brown claystone recovered as: coarse gravel and cobble sized claystone fragments at 14.90m. Stiff, very closely to closely fissured greyish brown slightly micaceous CLAY with occasional bioturbation and rare to occasional off-white fine to coarse sand sized shell fragments. Fissures are generally subhorizontal.	13.57-13.87	C08		
			100							14.87-15.17	C09		

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 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



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PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 3 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No		
			100					(2.70)	subvertical and 40°-60°, planar, smooth, often polished, occasionally striated. (THAMES GROUP: LONDON CLAY FORMATION - A3i) ... with rare pockets of light brown fine sand (<25mm) below 16.00m.	16.70-17.00	C10		
			96					17.70	Stiff, extremely closely to very closely fissured grey slightly sandy slightly micaceous CLAY with rare to occasional pockets of dark grey sandy silt (<80mm), occasional pockets of light brown fine sand (<50mm), occasional bioturbation, occasional off-white fine to coarse sand sized shell fragments and rare foraminifera. Fissures are generally subhorizontal and subvertical, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A2) ... with occasional pyrite nodules (<55mm) below 18.20m. ... becoming very closely fissured between 19.20m and 19.80m.	17.50-17.80	C11		
			97						... with frequent foraminifera at 19.85m. ... with frequent pockets of light brown fine sand (<35mm) between 19.90m and 20.20m. ... becoming very closely fissured below 20.50m.	18.90-19.20	C12		
			100						... becoming locally sandy with frequent pockets of dark grey sandy silt (<40mm) between 21.15m and 21.30m.	20.20-20.50	C13		
			100						... becoming locally sandy between 22.35m and 22.45m. ... with rare lignite fragments (<25mm) and rare pyrite nodules (<25mm) at 22.55m. ... with frequent bioturbation below 22.60m.	21.30-21.60	C14		
			100					(11.80)		22.80	D15		

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 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
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PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 4 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No		
			100						... with frequent foraminifera between 24.60m and 24.90m.	24.15-24.45	C16		
			100						... becoming extremely closely to very closely fissured with occasional partings of light brown fine sand below 24.95m. Fissures are generally subhorizontal and 30°-60°, planar, smooth, unpolished.	25.56-25.86	C17		
			100						... becoming very closely fissured below 25.80m.				
			100						... becoming slightly sandy with occasional foraminifera below 26.30m. ... with occasional lignite fragments (<75mm) at 26.37m. ... becoming sandy between 26.50m and 26.60m.	26.86-27.16	C18		
			97						... becoming locally sandy between 27.50m and 28.20m.	27.50-27.80	C19		
			100					29.50	... with 1 No pyrite nodule (<60mm) at 29.10m.				
			100						... becoming sandy with frequent foraminifera below 29.40m. ... with occasional pockets of dark greenish grey glauconitic fine sand (<45mm), rare dark grey rounded fine flint gravel and rare dark greenish grey flecks below 29.45m.	29.90-30.20	C20		
			100					(2.20)	Very stiff to hard, brown mottled bluish grey CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds) ... with polished surfaces below 29.58m. ... becoming occasionally mottled reddish brown below 30.20m.	30.66-30.96	C21		
19/11/14	8.00	0.80						31.70	... becoming bluish grey mottled brown and slightly sandy below 31.35m.				
20/11/14	8.00		100					31.80	... becoming sandy, locally very sandy below 31.50m.	31.80	D22		
									Dense to very dense, bluish grey				

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 E-mail: si@conceptconsultants.co.uk



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PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
Date Completed 26/11/14				
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 5 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No		
			100					(0.70)	mottled brown and occasionally yellowish brown very clayey fine to medium SAND. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	32.50	D23		
								32.50					
								32.65	Bluish grey mottled brown and occasionally yellowish brown sandy CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds) ... becoming occasionally mottled reddish brown and slightly sandy below 32.00m. ... becoming bluish grey mottled light grey and sandy below 32.40m.	33.10-33.40	C24		
			98					(4.47)	Dense to very dense, light grey occasionally mottled bluish grey slightly clayey fine to medium SAND with rare pockets of soft to firm bluish grey clay (<20mm). (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds) Bluish grey mottled light grey sandy CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds) ... becoming brown mottled bluish grey and occasionally reddish brown and slightly sandy below 32.75m. ... becoming occasionally mottled yellowish brown below 33.40m.	34.35-34.65	C25		
									... becoming light grey mottled bluish grey and occasionally yellowish brown and sandy between 35.55m and 35.65m.	35.80-36.10	C26		
								37.12	... becoming dark grey and dark bluish grey below 36.50m.				
			100					(1.08)	Very stiff to hard, dark grey CLAY with rare lignite fragments (<5mm) and rare pyrite nodules (<5mm). (LAMBETH GROUP: WOOLWICH FORMATION: Laminated Beds) ... with a band of lignite fragments (<75mm) and occasional pyrite nodules (<65mm) between 37.45m and 37.55m.	38.00	D27		
								38.20	... with extremely closely spaced laminae of light grey sandy silt and light grey silt below 37.55m. ... with occasional off-white and light brown fine to coarse sand and fine to coarse gravel sized shell fragments below 37.60m. ... with rare pockets of grey sandy silt (<25mm) below 38.10m.	38.90-39.20	C28		
			100					(1.00)	Very stiff to hard, light bluish grey mottled yellowish brown silty CLAY with occasional off-white fine to coarse gravel sized cemented calcrete nodules, occasional pockets of white silt (<45mm) and rare traces of rootlets. (LAMBETH GROUP: READING FORMATION: Lower Mottled Beds)				
								39.20					

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E-mail: si@conceptconsultants.co.uk



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PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
Date Completed 26/11/14		Method/ Plant Used Cable Percussion / Rotary		Sheet 7 of 8
Client Consolidated Developments Limited				

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result
21/11/14	8.00	11.30	0						dark greenish grey glauconitic fine to medium sand (<50mm). (LAMBETH GROUP: UPNOR FORMATION)	48.00	D36			
24/11/14	8.00	7.00						48.70	Dense, light grey slightly clayey fine SAND. (LAMBETH GROUP: UPNOR FORMATION) ... becoming dark greenish grey, glauconitic and fine to medium with a band of lignite fragments at 46.60m.	48.70	D37			
			90					(3.45)	Stiff to very stiff, grey slightly sandy CLAY with occasional partings of light grey fine sand and occasional pockets of dark greenish grey glauconitic fine to medium sand (<45mm). (LAMBETH GROUP: UPNOR FORMATION) ... with a band of dark grey subrounded to rounded medium to coarse flint gravel between 47.50m and 47.63m and at 48.65m.	50.50	D38			
			100						Dense, grey silty fine SAND with rare off-white fine to coarse sand sized shell fragments. (THANET SAND FORMATION: THANET SAND) ... becoming slightly silty with rare dark grey staining below 50.00m.					
			93	43	9			52.15 52.25	Dark grey to black angular to subrounded fine to coarse rinded flint GRAVEL with rare traces of glauconitic fine sand. (THANET SAND FORMATION: BULLHEAD BEDS)					
			96	86	63			(1.75)	Weak to moderately weak, medium to high density off-white CHALK with extremely closely to very closely spaced, horizontal, open, rough fractures, occasional dark grey specks and occasional light grey and grey staining. (SEAFORD CHALK FORMATION) ... with subangular to subrounded fine to coarse rinded flint gravel (often fractured) at 52.40m.	53.10-53.40	C39			
			100	95	75			54.00	... with a band of subangular to subrounded medium to coarse gravel and cobble sized rinded flint between 52.60m and 52.70m. ... becoming very closely to closely fractured below 53.10m. Fractures are horizontal and vertical, open, rough with rare dark grey specks and occasional light grey staining. ... with subangular to subrounded coarse rinded flint gravel at 53.40m.	54.60-54.93	C40			
24/11/14	8.00	12.80						(1.30) 55.30	Structureless CHALK composed of slightly sandy silty GRAVEL with rare light grey staining. Gravel is very weak, low density white subangular to subrounded fine to coarse chalk fragments and occasional fine to medium rinded flint. (SEAFORD CHALK FORMATION)					

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8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB01

Project
St Giles Circus

Job No 14/2669	Date Started 04/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.30m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 8 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result
									... with 1No cobble sized rinded flint between 54.10m and 54.25m. ... with a band of fine to coarse rinded flint gravel at 55.00m. End of Borehole					

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8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB01A

Project
St Giles Circus

Job No 14/2669	Date Started 07/11/14 Date Completed 07/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 1.60m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
07/11/14		Dry			0.30	CONCRETE.	0.30-1.00	B01		... Borehole aborted at 1.60m depth. (see Remarks)	
					(0.70)	Dark brown sandy subangular to subrounded fine to coarse GRAVEL comprising flint, brick and concrete fragments. Sand is fine to coarse.					
					1.00	(MADE GROUND) ... with occasional metal fragments and occasional cobble sized brick and concrete fragments at 0.60m.	1.00-1.20	D02			
07/11/14					(0.60)	... becoming locally very sandy at 0.70m.					
					1.60	Brown gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND) End of Borehole	1.60				

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Borehole aborted at 1.60m due to presence of a concrete obstruction. 3. Borehole backfilled with bentonite pellets and made good upon completion. 4. Borehole relocated to location BH01B.
From	To	Hours	From	To	
1.60		00:30:00	1.20	1.60	

Issue No. 01	Driller AR	Logged By EA	
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8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB01B

Project
St Giles Circus

Job No 14/2669	Date Started 07/11/14 Date Completed 07/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 1.28m
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Client Consolidated Developments Limited	Method/ Plant Used Cable Percussion	Sheet 1 of 1
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PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
07/11/14		Dry			0.30	CONCRETE.					
					(0.50)	Dark brown sandy angular to subrounded fine to coarse GRAVEL comprising flint, nails, brick and concrete fragments and occasional cobble sized brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)					
					0.80						
07/11/14					(0.48)	Brown gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)					
					1.28			1.28			... Borehole aborted at 1.28m depth. (see Remarks)
						End of Borehole					

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Borehole aborted at 1.28m due to presence of a concrete obstruction. 3. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No. 01	Driller AR	Logged By EA	
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8 Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB02

Project
St Giles Circus

Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
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Client
Consolidated Developments Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	Shoring / Support
0.00	1.20	IP	06/11/2014	06/11/2014	AR/HB	EA			Hand Excavated Cable Percussion Rotary	
1.20	8.00	CP	06/11/2014	06/11/2014	AR/HB	EA				
8.00	55.20	RC	27/11/2014	01/12/2014	TC/VC	AN				

WATER STRIKES					WATER ADDED		CHISELLING			
Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					5.40	7.00				

HOLE		CASING	
Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	200	0.00	200
8.00	200	8.00	200
55.20	146		

ROTARY / DYNAMIC SAMPLING			
From (m)	To (m)	Blows	Recovery (%)
8.00	9.50		93
9.50	11.00		93
11.00	12.50		100
12.50	14.00		83
14.00	15.50		97
15.50	17.00		100
17.00	18.50		100
18.50	20.00		100
20.00	21.40		100
21.40	22.80		90
22.80	24.45		100
24.45	25.90		93
25.90	27.40		100
27.40	27.50		100
27.50	28.50		95
28.50	30.10		97
30.10	30.30		100
30.30	31.80		100
31.80	32.00		100
32.00	33.50		100
33.50	35.00		97
35.00	36.50		100
36.50	38.00		100
38.00	39.50		100
39.50	40.70		100
40.70	42.30		97
42.30	43.30		30
43.30	44.60		89
44.60	46.00		93
46.00	47.50		100
47.50	49.00		97
49.00	50.60		94
50.60	52.10		90
52.10	53.70		100
53.70	55.20		100

ROTARY FLUSH DETAIL				
From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour
8.00	20	Polymer	75	
20.00	31.80	Polymer	65	
31.80	55.20	Polymer	100	

INSTALLATION DETAILS					
Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPGW	50	8.00	2.00	8.00	02/12/2014

BACKFILL DETAILS			
Top (m)	Bottom (m)	Material	Backfill Date
0.00	0.50	Concrete / Flush Cover	02/12/2014
0.50	2.00	Bentonite Pellets	
2.00	8.00	Pea Shingle	
8.00	10.00	Bentonite Pellets	
10.00	55.20	Cement / Bentonite Grout	

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London W3 0RF
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E-mail: si@conceptconsultants.co.uk



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Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
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Client
Consolidated Developments Limited

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
06/11/14	0.00		Dry		S	1.20	N13	2, 2 / 2, 4, 3, 4		Dry
06/11/14	6.00	6.00	3.00		S	2.00	N50/0.135	4, 4 / 12, 38	1.70	Dry
06/11/14	7.00	7.00	6.00		S	3.00	N1	2, 2 / 0, 0, 1, 0	3.00	Dry
06/11/14	8.00	7.30	Dry		S	4.00	N1	1, 0 / 0, 0, 1, 0	3.00	Dry
27/11/14	8.00	8.00	Dry		S	5.00	N23	1, 1 / 4, 5, 7, 7	4.50	Dry
27/11/14	20.00	8.00	0.80		C	6.00	N39	4, 4 / 7, 10, 10, 12	6.00	3.00
28/11/14	20.00	8.00	3.80		S	7.00	N13	1, 1 / 2, 2, 4, 5	7.00	6.00
28/11/14	43.30	8.00	0.90		S	8.00	N24	3, 3 / 4, 5, 7, 8	7.30	Dry
01/12/14	43.30	8.00	5.10							
01/12/14	55.20	8.00	1.10							

GENERAL REMARKS

KEY

SAMPLES

- ES - Environmental Sample (Tub, Vial, Jar)
- U - 100mm Diameter Undisturbed Sample
- UT - 100mm Diameter Thin Wall Undisturbed Sample
- U38 - 38mm Diameter Undisturbed Sample
- D - Disturbed Sample, B-Bulk Sample, BLK-Block Sample
- C - Core Sample, W-Water Sample, R-Root Sample

HOLE TYPES

- IP - Inspection Pit, TP-Trial Pit
- CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
- WS - Window Sampling, WSL-Windowless Sampling
- DC - Dynamic Coring

INSTALLATION DETAILS

- SPIE - Standpipe Piezometer
- SPGW - Groundwater Monitor Standpipe
- SPG/GW - Gas / Groundwater Monitor Standpipe
- VWP - Vibrating Wire Piezometer
- INC - Incliner

TESTS S/C-SPT / CPT, SV-Shear Vane, PP-Pocket Penetrometer, M-Mackintosh Probe

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

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8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB02

Project
St Giles Circus

Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 1 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill		
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result	
06/11/14		Dry						0.10	ASPHALT.						
								0.25	CONCRETE.	0.30	B01				
								(1.15)	Brown gravelly fine to coarse SAND with wood and nail fragments. Gravel is subangular to subrounded fine to coarse flint and brick fragments. (MADE GROUND)	1.20 1.20-1.65 1.40-2.00	D02 B03	N13	2, 2 / 2, 4, 3, 4		
								1.40	Brown slightly clayey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (MADE GROUND)	2.00		N50/ 0.135	4, 4 / 12, 38		
								(1.60)		2.00-2.30	D04				
								3.00	Soft, brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse flint and brick fragments. (MADE GROUND)	3.00 3.00-3.45 3.00-3.50	D05 B06	N1	2, 2 / 0, 0, 1, 0		
								(2.00)		4.00 4.00-4.45	D07	N1	1, 0 / 0, 0, 1, 0		
								5.00	Medium dense, light brown fine to coarse SAND and subangular to subrounded fine to coarse flint GRAVEL. (RIVER TERRACE DEPOSITS)	5.00 5.00-5.45	D08	N23	1, 1 / 4, 5, 7, 7		
								(0.50)		5.50-6.00	B09				
06/11/14	6.00	3.00						1.00	Medium dense, light brown gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	6.00 6.00-6.50	B10	N39	4, 4 / 7, 10, 10, 12		
								6.50							
06/11/14	7.00	6.00						(0.50)	Medium dense, light brown sandy subangular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	7.00 7.00	D11 D12	N13	1, 1 / 2, 2, 4, 5		
								(0.80)	Firm to stiff, reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	7.50-7.80	D13				
								7.80	... with occasional lenses of sand at 7.20m.	7.80	D14				
06/11/14	7.30	Dry								8.00		N24	3, 3 / 4, 5, 7, 8		

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8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB02

Project
St Giles Circus

Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 2 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result
27/11/14	8.00	Dry							Stiff, extremely closely to very closely fissured greyish brown slightly sandy slightly micaceous CLAY with occasional partings of light brown fine sand, occasional partings of dark grey sandy silt, occasional pockets of light brown fine sand (<25mm), rare pockets of dark grey sandy silt (<20mm), occasional bioturbation and rare off-white fine to medium sand sized shell fragments. Fissures are generally subhorizontal, 30°-60°, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	8.00 8.00-8.45	D15		... Rotary follow on carried out below 8.00m depth.	
			93							8.80-9.10	C16			
									... with occasional pockets of dark grey sandy silt (<75mm) below 11.00m.	10.35-10.65	C17			
								(7.55)	... with occasional pyrite nodules (<55mm) below 11.60m.	11.95-12.25	C18			
			100						... becoming very closely fissured below 12.50m.	12.60-12.90	C19			
									... with strong light brown medium gravel sized claystone fragments at 13.60m. ... with a band of strong light brown claystone recovered as: fine to medium gravel sized claystone fragments at 13.75m.					
			83						... becoming extremely closely to very closely fissured below 14.80m.	15.05-15.35	C20			
								15.35	Stiff, very closely fissured greyish brown slightly micaceous CLAY with rare pockets of light brown fine sand (<20mm), occasional bioturbation and occasional off-white fine to medium sand sized shell fragments. Fissures are					
			97											
			100											

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 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



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Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 3 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No		
			100					(2.35)	generally subhorizontal and subvertical, planar, smooth, polished. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	16.90	D21		
									... with very strong light grey cobble sized claystone fragments at 17.00m.	17.40-17.70	C22		
			100					17.70	Stiff to very stiff, extremely closely to very closely fissured grey slightly sandy slightly micaceous CLAY with occasional pockets of light brown fine sand (<75mm), occasional pockets of dark grey sandy silt (<75mm), occasional bioturbation, rare off-white fine to medium sand sized shell fragments and frequent foraminifera. Fissures are generally subhorizontal, subvertical and 40°-70°, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A2)	18.50-18.80	C23		
27/11/14	8.00	0.80							... with occasional pyrite nodules (<65mm) below 18.30m. ... becoming very closely fissured below 18.80m.				
28/11/14	8.00	3.80							... becoming locally sandy at 20.20m.				
			100						... becoming slightly sandy with occasional foraminifera below 21.35m. ... becoming sandy at 21.55m.	21.05-21.35	C24		
			90						... with rare partings of light brown fine sand between 21.95m and 22.45m.	22.15-22.45	C25		
			100					(11.80)	... with frequent foraminifera at 22.63m. ... becoming sandy with frequent pockets of light brown fine sand (<40mm) between 22.80m and 22.95m. ... becoming sandy with frequent foraminifera and frequent bioturbation				

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8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB02

Project
St Giles Circus

Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 4 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result
			100						between 23.75 and 23.90m.	24.05-24.35	C26			
			93						... with frequent foraminifera between 24.80m and 24.95m.	25.45-25.75	C27			
			100						... becoming very closely fissured below 25.45m. Fissures generally are subhorizontal and 40°-60°, planar, smooth, unpolished.	26.95-27.25	C28			
			100						... becoming extremely closely to very closely fissured between 26.10m and 26.45m.	27.40	D29			
			95						... with rare foraminifera below 26.55m.	28.30	D30			
			97						... with frequent foraminifera at 29.18m.	28.50-28.80	C31			
			100					29.50	... becoming sandy with occasional pockets of dark greenish grey glauconitic fine sand (<35mm), occasional dark greenish grey flecks and occasional foraminifera below 29.45m.	29.80-30.10	C32			
			100						Very stiff to hard, brown mottled bluish grey CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	30.20	D33			
			100					(3.10)	... with polished surfaces at 29.60m, at 29.75m and at 30.45m.	31.50-31.80	C34			
			100						... becoming slightly sandy and occasionally mottled reddish brown below 31.50m.	31.80	D35			
			100						... becoming sandy, locally very sandy					

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8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB02

Project
St Giles Circus

Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 5 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No		
			100					32.60	between 31.70m and 31.80m. ... becoming light bluish grey mottled brown and occasionally reddish brown below 31.70m. ... becoming brown mottled bluish grey below 32.00m.	32.60	D36		
								32.85	Dense, brown mottled bluish grey clayey, locally very clayey fine to medium SAND. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	33.00-33.30	C37		
			97					(1.95)	Very stiff to hard, brown mottled bluish grey slightly sandy CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	34.05-34.35	C38		
								34.80	... becoming bluish grey occasionally mottled brown between 33.70m and 33.80m.				
								34.95	... becoming occasionally mottled reddish brown below 34.35m.	34.80	D39		
			100						Firm, bluish grey occasionally mottled brown very sandy CLAY, locally bluish grey occasionally mottled brown very clayey fine to medium SAND. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	35.90-36.20	C40		
								(4.05)	Very stiff to hard, brown mottled bluish grey slightly sandy CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	37.00-37.30	C41		
									... becoming light bluish grey occasionally brown and very sandy with occasional pockets of light grey fine sand (<70mm) between 35.65m and 35.90m.				
			100						... with polished surfaces at 36.85m and at 37.80m.				
									... becoming mottled dark bluish grey below 38.10m.				
								39.00	... becoming grey mottled dark bluish grey below 38.50m.				
								(0.50)	Very stiff to hard, dark grey CLAY with occasional lignite fragments (<65mm) and rare pyrite nodules (<5mm).	39.40	D42		
			100					39.50	(LAMBETH GROUP: WOOLWICH FORMATION: Laminated Beds)	39.70-40.00	C43		
									... with a band of lignite fragments (<80mm) and occasional pyrite nodules (<60mm) between 39.10m and				

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 E-mail: si@conceptconsultants.co.uk



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Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 7 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill								
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result							
01/12/14	8.00	1.10	97				x	(4.40)	medium sand (<30mm) below 45.57m. Gravel is brown rounded fine flint.	49.50	D50										
									Very stiff, grey slightly sandy CLAY with occasional partings of light grey fine sand and occasional pockets of dark greenish grey glauconitic fine to medium sand (<50mm). (LAMBETH GROUP: UPNOR FORMATION)												
									... with dark grey rounded coarse flint gravel at 45.90m.												
									... with a band of dark grey rounded medium to coarse flint gravel at 46.00m.												
									Dense, grey silty fine SAND. (THANET SAND FORMATION: THANET SAND)												
... with rare dark grey staining below 50.00m.																					
			90				x		... becoming slightly silty below 51.00m.	51.50	D51										
			100	91	56		o	(1.80)	Dark grey to black angular to subrounded medium to coarse rinded flint GRAVEL and COBBLES in a greenish grey sandy clay matrix. Sand is fine. (THANET SAND FORMATION: BULLHEAD BEDS)	52.30-52.60	C52										
			100	57	19		o	(0.50)	Weak to moderately weak, medium to high density off-white CHALK. Fractures are extremely closely to very closely spaced, horizontal and vertical, open, rough, with occasional brown staining and rare dark grey specks. (SEAFORD CHALK FORMATION)	53.90											
								(0.40)	... with occasional subangular to subrounded fine to medium rinded flint gravel between 52.15m and 52.30m.												
								(0.40)	... with a band of subangular to cobble sized rinded flint between 52.60m and 52.75m.												
								(0.40)	... with occasional subangular to subrounded fine to medium rinded flint gravel at 53.30m.												
								(0.50)	... with very closely spaced vertical fractures, occasional dark grey staining and occasional dark grey specks below 53.70m.												
								(0.50)	Structureless CHALK composed of slightly sandy silty GRAVEL with rare dark grey staining and rare dark grey flecks. Gravel is very weak, low density white subangular to subrounded fine to coarse chalk fragments and subangular to subrounded fine to coarse rinded flint. (SEAFORD CHALK FORMATION)												
								55.20													

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CONCEPT SITE INVESTIGATIONS

8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB02

Project
St Giles Circus

Job No 14/2669	Date Started 06/11/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 55.20m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion / Rotary	Sheet 8 of 8

PROGRESS			STRATA						SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	TCR %	SCR %	R.Q.D. %	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No			Test Result
									Weak to moderately weak, medium to high density off-white CHALK. Fractures are extremely closely to very closely spaced, horizontal and vertical, open, rough, with occasional brown staining and rare dark grey specks. (SEAFORD CHALK FORMATION) ... with subangular coarse rinded flint gravel at 54.48m. Structureless CHALK composed of slightly sandy silty GRAVEL and COBBLES. Gravel and cobbles are very weak, low density white subangular to subrounded fine to coarse chalk fragments and rinded flint. (SEAFORD CHALK FORMATION) Weak to moderately weak, medium to high density off-white CHALK. Fractures are extremely closely to very closely spaced, horizontal and vertical, open, rough, with occasional brown staining and rare dark grey specks. (SEAFORD CHALK FORMATION) End of Borehole					

CONCEPT SITE INVESTIGATIONS

8 Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB04

Project
St Giles Circus

Job No 14/2669	Date Started 18/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.35m
	Date Completed 20/11/14			

Client
Consolidated Developments Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	Shoring / Support
0.00	1.20	IP	18/11/2014	18/11/2014	AR/HB	AN			Hand Excavated	
1.20	30.35	CP	18/11/2014	19/11/2014	AR/HB	AN			Cable Percussion	

WATER STRIKES

WATER ADDED

CHISELLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					3.00	5.70				

HOLE

CASING

ROTARY / DYNAMIC SAMPLING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Blows	Recovery (%)
0.00	200	0.00	200				
30.35	200	6.00	200				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPG/GW	50	6.00	2.00	6.00	20/11/2014

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date
0.00	0.30	Concrete / Flush Cover	20/11/2014
0.30	2.00	Bentonite Pellets	
2.00	6.00	Pea Shingle	
6.00	30.00	Bentonite Pellets	

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CONCEPT SITE INVESTIGATIONS

8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB04

Project
St Giles Circus

Job No 14/2669	Date Started 18/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.35m
	Date Completed 20/11/14			

Client
Consolidated Developments Limited

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
18/11/14	0.00		Dry		S	2.00	N0	2, 2 / 0, 0, 0, 0	1.70	Dry
18/11/14	4.00	4.00	2.00		S	3.00	N30	2, 3 / 5, 6, 9, 10	3.00	Dry
18/11/14	5.00	4.50	3.00		C	4.00	N23	2, 3 / 4, 4, 7, 8	4.00	2.00
18/11/14	6.00	6.00	Wet	... Slop	C	5.00	N24	3, 4 / 6, 6, 7, 5	4.50	3.00
18/11/14	7.00	6.00	Dry		S	6.00	N14	2, 3 / 3, 3, 4, 4	6.00	Wet
18/11/14	16.60	6.00	Dry		S	8.00	N21	3, 3 / 4, 5, 5, 7	6.00	Dry
19/11/14	16.60	6.00	Dry		S	9.00	N25	3, 4 / 5, 6, 7, 7	6.00	Dry
19/11/14	17.00	6.00	Wet	... Slop	S	11.00	N27	3, 4 / 5, 6, 7, 9	6.00	Dry
19/11/14	18.00	6.00	Wet	... Slop	S	12.00	N30	4, 6 / 6, 7, 8, 9	6.00	Dry
19/11/14	19.00	6.00	Dry		S	14.00	N33	4, 6 / 7, 7, 10, 9	6.00	Dry
19/11/14	30.35	6.00	Dry		S	15.00	N36	5, 6 / 8, 8, 9, 11	6.00	Dry
					S	17.00	N43	6, 7 / 9, 9, 11, 14	6.00	Wet
					S	18.00	N35	6, 7 / 7, 8, 9, 11	6.00	Wet
					S	20.00	N39	7, 8 / 9, 10, 10, 10	6.00	Dry
					S	21.00	N40	7, 9 / 9, 10, 10, 11	6.00	Dry
					S	23.00	N44	8, 9 / 9, 10, 12, 13	6.00	Dry
					S	24.00	N45	8, 9 / 10, 10, 11, 14	6.00	Dry
					S	26.00	N50	8, 9 / 11, 11, 13, 15	6.00	Dry
					S	27.00	N50/0.275	9, 9 / 12, 13, 16, 9	6.00	Dry
					S	29.00	N50/0.225	9, 11 / 14, 16, 19, 1	6.00	Dry
					S	30.00	N50/0.19	10, 14 / 19, 21, 10	6.00	Dry

GENERAL REMARKS

KEY

SAMPLES

- ES - Environmental Sample (Tub, Vial, Jar)
- U - 100mm Diameter Undisturbed Sample
- UT - 100mm Diameter Thin Wall Undisturbed Sample
- U38 - 38mm Diameter Undisturbed Sample
- D - Disturbed Sample, B-Bulk Sample, BLK-Block Sample
- C - Core Sample, W-Water Sample, R-Root Sample

HOLE TYPES

- IP - Inspection Pit, TP-Trial Pit
- CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
- WS - Window Sampling, WSL-Windowless Sampling
- DC - Dynamic Coring

INSTALLATION DETAILS

- SPIE - Standpipe Piezometer
- SPGW - Groundwater Monitor Standpipe
- SPG/GW - Gas / Groundwater Monitor Standpipe
- VWP - Vibrating Wire Piezometer
- INC - Inclinator

TESTS S/C-SPT / CPT, SV-Shear Vane, PP-Pocket Penetrometer, M-Mackintosh Probe

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

CONCEPT SITE INVESTIGATIONS

8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB04

Project
St Giles Circus

Job No 14/2669	Date Started 18/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.35m
Date Completed 20/11/14		Method/ Plant Used Cable Percussion		Sheet 1 of 3
Client Consolidated Developments Limited				

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill																
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result																		
18/11/14		Dry			0.20	Grey block paving (0.10m) over grey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint and concrete fragments. (MADE GROUND) CONCRETE. COBBLES of concrete and brick fragments. (MADE GROUND) Brown clayey sandy subangular to subrounded fine to coarse GRAVEL with occasional pockets of soft brown sandy clay (<45mm). Gravel comprises flint, brick, concrete and sandstone fragments. Sand is fine to coarse. (MADE GROUND) ... becoming very clayey and very sandy with occasional cobble sized brick fragments and rare pockets of soft brown sandy clay (<20mm) below 1.00m. Very loose, brown and reddish brown occasionally mottled grey clayey very sandy subangular to subrounded fine to coarse GRAVEL comprising brick, concrete and sandstone fragments and cobble sized brick fragments. Sand is fine to coarse. (MADE GROUND)	0.40-1.00	B1	... VOC 0.2ppm ... VOC 0.1ppm																		
					0.30		0.40-1.00	D2																			
					0.40		0.50	ES3																			
					0.50		1.00	ES4																			
					1.00		2.00	N0																			
					2.00		2.00	ES5																			
					2.00		2.00-2.45	D6																			
					2.00		2.00-2.50	B7																			
					2.00		2.00-2.50	D8																			
					3.00		3.00	N30																			
					3.00		3.00-3.45	D10																			
			18/11/14		4.00		2.00						4.00	Medium dense, brown very sandy subangular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS) Medium dense, brown very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	4.00-4.50	B13	2, 3 / 4, 4, 7, 8										
	5.00	5.00		N24																							
	5.70	5.70		D14																							
18/11/14	6.00	Wet						6.00	Firm, brown mottled orangish brown slightly gravelly CLAY with occasional pockets of orangish brown fine sand (<25mm) and occasional dark grey flecks. Gravel is subangular to subrounded fine to coarse flint. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	6.00	N14		2, 3 / 3, 3, 4, 4														
								6.00		6.00-6.45	D15																
								6.00		6.00-6.45	D16																
				18/11/14				6.00		Dry											7.00	Firm, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with occasional bioturbation and rare off-white fine to medium sand sized shell fragments. Fissures are generally subhorizontal and 20°-45°, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3ii) ... becoming slightly sandy with rare partings and occasional pockets of light brown fine sand (<55mm) and rare pockets of dark grey sandy silt (<35mm) below 7.60m. ... becoming stiff with occasional off-white fine to coarse sand sized shell fragments below 8.00m.	7.00-7.45	UT17	20 blows	100% Recovery	
																					7.60		7.60	D18			
																					8.00		8.00	N21			
																					8.00		8.00-8.45	D19			
																					9.00		9.00	N25			
																					9.00		9.00-9.45	D20			
					10.00		10.00-10.45				UT21	23 blows		100% Recovery													
					10.60		10.60				D22																
					11.00		11.00				N27																

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8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB04

Project
St Giles Circus

Job No 14/2669	Date Started 18/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.35m
Date Completed 20/11/14		Method/ Plant Used Cable Percussion		Sheet 2 of 3
Client Consolidated Developments Limited				

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
					(10.00)			11.00-11.45	D23			
						... becoming very stiff below 12.00m.		12.00 12.00-12.45	D24	N30	4, 6 / 6, 7, 8, 9	
								13.00-13.45	UT25	26 blows	100% Recovery	
						... with occasional pockets of dark grey sandy silt (<55mm) at 13.60m.		13.60	D26			
								14.00 14.00-14.45	D27	N33	4, 6 / 7, 7, 10, 9	
								15.00 15.00-15.45	D28	N36	5, 6 / 8, 8, 9, 11	
					16.00			16.00-16.45	UT29	31 blows	100% Recovery	
18/11/14	6.00	Dry				Very stiff, very closely to closely fissured greyish brown slightly micaceous CLAY with occasional bioturbation and rare off-white fine to coarse sand sized shell fragments. Fissures are generally subhorizontal and 40°-60°, planar, smooth, polished. (THAMES GROUP: LONDON CLAY FORMATION - A3i)		16.60	D30			
19/11/14	6.00	Dry						17.00 17.00-17.45	D31	N43	6, 7 / 9, 9, 11, 14	
19/11/14	6.00	Wet						18.00 18.00-18.45	D32	N35	6, 7 / 7, 8, 9, 11	
					(3.60)	... with rare pockets of light brown fine sand (<25mm) below 18.00m.		19.00-19.45	UT33	37 blows	100% Recovery	
					19.60			19.60	D34			
						Very stiff, extremely closely to very closely fissured greyish brown to brownish grey slightly sandy slightly micaceous CLAY with occasional pockets of dark grey sandy silt (<45mm), occasional pockets of light brown fine sand (<15mm), occasional bioturbation and rare foraminifera. Fissures are generally subhorizontal and subvertical, planar, smooth, polished. (THAMES GROUP: LONDON CLAY FORMATION - A2) ... with occasional partings of light brown fine sand at 21.00m. ... with occasional off-white fine to coarse sand sized shell fragments below 21.00m.		20.00 20.00-20.45	D35	N39	7, 8 / 9, 10, 10, 10	
								21.00 21.00-21.45	D36	N40	7, 9 / 9, 10, 10, 11	
								22.00	UT37	40 blows	No Recovery	

CONCEPT SITE INVESTIGATIONS

8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB04

Project
St Giles Circus

Job No 14/2669	Date Started 18/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.35m
Date Completed 20/11/14		Method/ Plant Used Cable Percussion		Sheet 3 of 3
Client Consolidated Developments Limited				

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
19/11/14	6.00	Dry			(10.75)	... with occasional partings of light brown fine sand at 22.60m.	22.60	D38		8, 9 / 9, 10, 12, 13	
							23.00		N44		
							23.00-23.45	D39			
							24.00		N45		
						... becoming locally sandy with frequent foraminifera below 24.00m.	24.00-24.45	D40			
							25.00-25.40	UT41	45 blows		90% Recovery
						... with occasional lignite fragments (<35mm) and rare pyrite nodules (<20mm) at 25.00m.	25.60	D42			
							26.00		N50		8, 9 / 11, 11, 13, 15
							26.00-26.45	D43			
							27.00		N50/ 0.275		9, 9 / 12, 13, 16, 9
							27.00-27.45	D44			
							28.00-28.45	UT45	50 blows		100% Recovery
							28.60	D46			
							29.00		N50/ 0.225		9, 11 / 14, 16, 19, 1
	29.00-29.40	D47									
	30.00		N50/ 0.19	10, 14 / 19, 21, 10							
	30.00-30.35	D48									
				End of Borehole							

CONCEPT SITE INVESTIGATIONS

8 Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB05

Project
St Giles Circus

Job No 14/2669	Date Started 11/11/14 Date Completed 17/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.00m
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Client
Consolidated Developments Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	Shoring / Support
0.00 1.20	1.20 30.00	IP CP	11/11/2014 13/11/2014	11/11/2014 14/11/2014	AR/HB AR/HB	RV RV			Hand Excavated Cable Percussion	

WATER STRIKES

WATER ADDED

CHISELLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					2.70	5.50				

HOLE

CASING

ROTARY / DYNAMIC SAMPLING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	From (m)	To (m)	Blows	Recovery (%)
0.00 30.00	200 200	0.00 6.00	200 200				

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPG/GW	50	6.00	2.00	6.00	17/11/2014

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date
0.00	0.30	Concrete / Flush Cover	17/11/2014
0.30	2.00	Bentonite Pellets	
2.00	6.00	Pea Shingle	
6.00	30.00	Bentonite Pellets	

Issue No 01

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CONCEPT SITE INVESTIGATIONS

8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB05

Project
St Giles Circus

Job No 14/2669	Date Started 11/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.00m
	Date Completed 17/11/14			

Client
Consolidated Developments Limited

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
11/11/14	0.00		Dry		S	2.00	N10	3, 2 / 2, 1, 3, 4	1.70	Dry
11/11/14	1.20		Dry		C	3.00	N22	2, 3 / 3, 4, 7, 8	3.00	2.50
13/11/14	1.20		Dry		C	4.00	N21	2, 3 / 3, 4, 6, 8	4.00	2.00
13/11/14	2.00	1.70	Dry		C	5.00	N15	4, 4 / 7, 5, 2, 1	4.50	2.50
13/11/14	3.00	3.00	2.50		S	6.00	N15	3, 3 / 3, 3, 4, 5	6.00	Wet
13/11/14	4.00	4.00	2.00		S	7.00	N17	3, 3 / 3, 4, 4, 6	6.00	Dry
13/11/14	5.00	4.50	2.50		S	9.00	N20	3, 3 / 4, 5, 5, 6	6.00	Dry
13/11/14	6.00	6.00	Wet	... Slop	S	10.00	N25	3, 4 / 5, 6, 6, 8	6.00	Dry
13/11/14	7.00	6.00	Dry		S	12.00	N32	4, 4 / 6, 8, 8, 10	6.00	Dry
13/11/14	19.00	6.00	Dry		S	13.00	N33	4, 5 / 6, 7, 9, 11	6.00	Dry
14/11/14	19.00	6.00	Dry		S	15.00	N37	5, 6 / 7, 9, 10, 11	6.00	Dry
14/11/14	30.00	6.00	Dry		S	16.00	N32	4, 4 / 7, 8, 8, 9	6.00	Dry
					S	18.00	N32	4, 6 / 6, 7, 9, 10	6.00	Dry
					S	19.00	N38	5, 7 / 7, 9, 10, 12	6.00	Dry
					S	21.00	N37	5, 6 / 8, 9, 10, 10	6.00	Dry
					S	22.00	N41	4, 6 / 9, 9, 10, 13	6.00	Dry
					S	24.00	N47	6, 8 / 10, 10, 13, 14	6.00	Dry
					S	25.00	N46	6, 8 / 9, 11, 12, 14	6.00	Dry
					S	27.00	N46	7, 8 / 10, 10, 13, 13	6.00	Dry
					S	28.00	N47	8, 8 / 9, 11, 13, 14	6.00	Dry

GENERAL REMARKS

KEY

SAMPLES

- ES - Environmental Sample (Tub, Vial, Jar)
- U - 100mm Diameter Undisturbed Sample
- UT - 100mm Diameter Thin Wall Undisturbed Sample
- U38 - 38mm Diameter Undisturbed Sample
- D - Disturbed Sample, B-Bulk Sample, BLK-Block Sample
- C - Core Sample, W-Water Sample, R-Root Sample

HOLE TYPES

- IP - Inspection Pit, TP-Trial Pit
- CP - Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
- WS - Window Sampling, WSL-Windowless Sampling
- DC - Dynamic Coring

INSTALLATION DETAILS

- SPIE - Standpipe Piezometer
- SPGW - Groundwater Monitor Standpipe
- SPG/GW - Gas / Groundwater Monitor Standpipe
- VWP - Vibrating Wire Piezometer
- INC - Inclinator

TESTS S/C-SPT / CPT, SV-Shear Vane, PP-Pocket Penetrometer, M-Mackintosh Probe

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue No 01

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CONCEPT SITE INVESTIGATIONS

8 Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

PB05

Project
St Giles Circus

Job No 14/2669	Date Started 11/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.00m
Date Completed 17/11/14		Method/ Plant Used Cable Percussion		Sheet 1 of 3
Client Consolidated Developments Limited				

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
11/11/14		Dry			0.10	Paving slab over fine to coarse SAND. (MADE GROUND)	0.30-0.60	B01			
					0.20		0.30-0.60	D02			
					0.30	CONCRETE.	0.50			... VOC 0.2ppm	
						Granite COBBLES. (MADE GROUND)	0.50	ES03			
11/11/14		Dry			(1.60)	Loose, brown sandy subangular to subrounded fine to coarse GRAVEL comprising flint, brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)	0.60-1.20	B04			
13/11/14		Dry				... becoming grey and clayey below 0.60m.	0.60-1.20	D05		... VOC 0.2ppm	
					1.90		1.00	ES06			
13/11/14	1.70	Dry			(0.80)	Loose to medium dense, reddish brown sandy angular to subrounded fine to coarse GRAVEL and COBBLES of brick fragments. Sand is fine to coarse. (MADE GROUND)	2.00		N10	3, 2 / 2, 1, 3, 4	
							2.00	ES07		... VOC 0.0ppm	
							2.00	D08			
							2.00-2.45	B09			
							2.00-2.50	B10			
							2.70-3.00				
13/11/14	3.00	2.50			(1.30)	Medium dense, greyish brown slightly sandy subangular to subrounded fine to coarse GRAVEL comprising flint and sandstone fragments. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	3.00		N22	2, 3 / 3, 4, 7, 8	
							3.00	ES11		... VOC 0.0ppm	
							3.00				
13/11/14	4.00	2.00			4.00	Medium dense, brown slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	4.00		N21	2, 3 / 3, 4, 6, 8	
							4.00-4.50	B12			
							4.00	D13			
13/11/14	4.50	2.50			5.00	Medium dense, brown fine to coarse SAND and angular to subrounded fine to coarse GRAVEL comprising flint and sandstone fragments. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	5.00		N15	4, 4 / 7, 5, 2, 1	
							5.00	B14			
							5.00	D15			
13/11/14	6.00	Wet			(0.50)	Firm to stiff, reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to coarse flint. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	6.00		N15	3, 3 / 3, 3, 4, 5	
							6.00	D16			
							6.00-6.45	D17			
13/11/14	6.00	Dry				Stiff, very closely to closely fissured grey CLAY. (THAMES GROUP: LONDON CLAY FORMATION)	7.00		N17	3, 3 / 3, 4, 4, 6	
							7.00-7.45	D18			
							8.00-8.45	UT19	24 blows	100% Recovery	
						... with occasional pockets of light brown fine sand at 8.60m.	8.60	D20			
							9.00		N20	3, 3 / 4, 5, 5, 6	
							9.00-9.45	D21			
							10.00		N25	3, 4 / 5, 6, 6, 8	
							10.00-10.45	D22			
							11.00-11.45	UT23	27 blows	100% Recovery	

CONCEPT SITE INVESTIGATIONS

8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB05

Project
St Giles Circus

Job No 14/2669	Date Started 11/11/14 Date Completed 17/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.00m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion	Sheet 2 of 3

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
13/11/14	6.00	Dry				... with partings of light brown fine sand at 11.60m.	11.60	D24			
14/11/14	6.00	Dry			(24.00)	... becoming very stiff below 12.00m.	12.00 12.00-12.45	D25	N32	4, 4 / 6, 8, 8, 10	
							13.00 13.00-13.45	D26	N33	4, 5 / 6, 7, 9, 11	
						... with partings of light brown fine sand below 14.00m.	14.00-14.45	UT27	32 blows	100% Recovery	
							14.60	D28			
							15.00 15.00-15.45	D29	N37	5, 6 / 7, 9, 10, 11	
							16.00 16.00-16.45	D30	N32	4, 4 / 7, 8, 8, 9	
							17.00-17.40	UT31	34 blows	90% Recovery	
							17.60	D32			
							18.00 18.00-18.45	D33	N32	4, 6 / 6, 7, 9, 10	
							19.00 19.00-19.45	D34	N38	5, 7 / 7, 9, 10, 12	
							20.00-23.15	UT35	37 blows	30% Recovery	
							20.30	D36			
						... with occasional pockets of light brown fine sand between 20.90m and 23.00m.	21.00 21.00-21.45	D37	N37	5, 6 / 8, 9, 10, 10	
							22.00		N41	4, 6 / 9, 9, 10, 13	

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8 Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

PB05

Project
St Giles Circus

Job No 14/2669	Date Started 11/11/14 Date Completed 17/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 30.00m
Client Consolidated Developments Limited			Method/ Plant Used Cable Percussion	Sheet 3 of 3

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
14/11/14	6.00	Dry					22.00-22.45	D38		6, 8 / 10, 10, 13, 14	
							23.00-23.35	UT39	40 blows		80% Recovery
							23.50	D40			
							24.00		N47		
							24.00-24.45	D41			
							25.00		N46		
							25.00-25.45	D42			
							26.00-26.40	UT43	44 blows		90% Recovery
							26.60	D44			
							27.00		N46		
							27.00-27.45	D45			
							28.00		N47		
							28.00-28.45	D46			
							29.00-29.35	UT47	50 blows		80% Recovery
29.60	D48										
			30.00		... becoming sandy with shell fragments below 29.00m. Sand is fine to medium.						
					End of Borehole						

9. DYNAMIC SAMPLER & HAND HELD BOREHOLE LOGS

CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS01

Project
St Giles Circus

Job No 14/2669	Date Started 24/11/14 Date Completed 24/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 1.40m
Client Consolidated Developments Limited			Method/ Plant Used Hand Held Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
24/11/14		Dry			0.05	Carpet over wooden floor.					
					0.55	Multicoloured clayey sandy angular to rounded fine to coarse GRAVEL comprising flint, brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)	0.50	ES01			
					0.60						
					0.80	Orangish brown slightly clayey very sandy subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.00	ES02			
24/11/14		Dry			1.40	End of Borehole	1.20				
<p>... 100% Recovery between 1.20m and 1.40m. ... Borehole aborted at 1.40m. (see Remarks)</p>											

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. Hand held sampler used due to access restrictions. 2. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 3. Borehole aborted at 1.40m depth due to refusal. 4. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By MP	
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CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS02

Project
St Giles Circus

Job No 14/2669	Date Started 25/11/14 Date Completed 25/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 3.70m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
24/11/14		Dry			0.50	Firm, brown mottled orangish brown and light brown slightly sandy gravelly CLAY with occasional dark grey flecks. Gravel is subangular to subrounded fine to coarse flint, brick, concrete and sandstone fragments. (MADE GROUND)	0.00-0.50	B01		... VOC 0.1ppm ... VOC 0.1ppm ... 100% Recovery between 1.20m and 2.00m. ... VOC 0.0ppm ... 85% Recovery between 2.00m and 3.00m. ... VOC 0.0ppm ... 100% Recovery between 3.00m and 3.70m. ... Borehole aborted at 3.70m. (see Remarks)	
					0.95	Firm, light greenish grey mottled brown slightly sandy silty very gravelly CLAY with occasional pockets of orangish brown fine sand (<3mm) and rare orangish brown staining. Gravel is subangular to subrounded fine to coarse flint. (MADE GROUND)	0.50-1.20	ES02 B03			
					1.45	Light greenish grey very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (MADE GROUND)	1.00	ES04			
					1.80	... with pockets of firm light greenish grey sandy clay (<65mm) at 1.75m.	1.00				
					3.00	Orangish brown gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.00	ES05			
					3.50	... becoming brown and slightly gravelly below 2.80m.	2.00				
24/11/14		3.00			3.70	Firm, brown mottled orangish brown CLAY with occasional pockets of orangish brown fine sand (<20mm) and occasional dark grey flecks. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	3.00	ES06			
						Firm to stiff, brownish grey CLAY with rare pockets of orangish brown fine sand (<2mm) and rare orangish brown discoloration. (THAMES GROUP: LONDON CLAY FORMATION)	3.00				
						End of Borehole	3.70				

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Borehole aborted at 3.70m depth due to refusal. 3. Water level upon completion at 3.00m depth. 4. Borehole backfilled with bentonite pellets upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By AN	
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CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS03

Project
St Giles Circus

Job No 14/2669	Date Started 20/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 4.00m
Date Completed 20/11/14		Method/ Plant Used Dynamic Sampler		Sheet 1 of 1
Client Consolidated Developments Limited				

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
20/11/14		Dry			0.05	Hardwood flooring on plywood.					
					0.20	CONCRETE.					
					(1.35)	Orangish brown slightly gravelly clayey fine SAND. Gravel is angular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	0.50	ES01			
					1.55		1.00	ES02			... 100% Recovery between 1.20m and 2.00m.
					2.35	Orangish brown slightly clayey very sandy subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.20				
					(0.80)		2.00	ES03			... 100% Recovery between 2.00m and 3.00m.
					2.90	Orangish brown slightly clayey gravelly fine to medium SAND. Gravel is angular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.00				
					(0.55)		3.00	ES04			... 100% Recovery between 3.00m and 4.00m.
					3.60	Orangish brown slightly clayey very sandy subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	3.00				
					(0.70)		3.00	ES04			
					4.00	Orangish brown mottled dark grey slightly sandy silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION)	3.80	ES05			
20/11/14		3.10				End of Borehole					

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Concrete diamond cored between 0.05m and 0.20m. 3. Water level upon completion at 3.10m depth. 4. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS04

Project
St Giles Circus

Job No 14/2669	Date Started 24/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 3.00m
Date Completed 24/11/14				
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
24/11/14		Dry	0.03		0.03	CONCRETE screed.					
			0.10		0.10	CONCRETE.					
			0.60		(0.60)	Dark orangish brown clayey sandy angular to rounded fine to coarse GRAVEL comprising flint and brick fragments. Sand is fine to coarse.	0.50	ES01			
			0.70		0.70	(MADE GROUND)	1.00	ES02			
			0.80		(0.80)	Orangish brown slightly clayey very sandy subrounded fine to coarse flint GRAVEL. Sand is fine to coarse.	1.20				... 100% Recovery between 1.20m and 2.00m.
			1.50		1.50	(RIVER TERRACE DEPOSITS)					
24/11/14		2.00	1.95		(0.45)	Orangish brown slightly clayey gravelly fine to medium SAND. Gravel is subrounded fine to coarse flint.	2.00				... 100% Recovery between 2.00m and 3.00m.
			2.00		(0.40)	Orangish brown slightly clayey very sandy subrounded fine to coarse flint GRAVEL. Sand is fine to coarse.	2.00	ES03			
			2.35		2.35	(RIVER TERRACE DEPOSITS)					
			0.55		(0.55)	Orangish brown slightly clayey gravelly fine to medium SAND. Gravel is subrounded fine to coarse flint.	2.80	ES04			
24/11/14			2.90		2.90	(RIVER TERRACE DEPOSITS)	3.00				... Borehole aborted at 3.00m depth. (see Remarks)
			3.00		3.00	Orangish brown slightly clayey very sandy subrounded fine to coarse flint GRAVEL. Sand is fine to coarse.					
						(RIVER TERRACE DEPOSITS)					
						End of Borehole					

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Concrete diamond cored between 0.00m and 0.10m. 3. Water seepage encountered at 2.00m depth, rising to 1.95m (20min). 4. Borehole aborted at 3.00m depth due to refusal. 5. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No.	01	Driller	DS	Logged By	MP	
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CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS05

Project
St Giles Circus

Job No 14/2669	Date Started 26/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 3.70m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
26/11/14		Dry			0.15	CONCRETE.					
					0.40	Dark brown and orangish brown clayey sandy angular to rounded fine to coarse GRAVEL comprising flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.50	ES01			
					(1.00)	Orangish brown slightly clayey gravelly fine to medium SAND. Gravel is subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	1.00	ES02			... 100% Recovery between 1.20m and 2.00m.
					1.40	... with a band of grey clay between 1.20m and 1.30m.	1.20				
					(2.30)	Orangish brown gravelly fine SAND. Gravel is subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.00	ES03			... 100% Recovery between 2.00m and 3.00m.
						... with a band of grey clay between 1.40m and 1.50m.	2.00				
						... with 1No cobble sized flint at 2.90m.	3.00	ES04			... 100% Recovery between 3.00m and 3.70m.
26/11/14		3.00			3.70	End of Borehole	3.70				... Borehole aborted at 3.70m depth. (see Remarks)

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Concrete diamond cored between 0.00m and 0.15m. 3. Borehole aborted at 3.70m depth due to refusal. 4. Water level upon completion at 3.00m depth. 5. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS06

Project
St Giles Circus

Job No 14/2669	Date Started 01/12/14 Date Completed 01/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 3.70m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
01/12/14		Dry			0.10	CONCRETE floor.					
					(0.50)	Orangish brown silty gravelly fine to coarse SAND. Gravel is angular to rounded fine to coarse flint and brick fragments. (MADE GROUND)	0.50	ES01			... with concrete obstructions at 0.60m. ... 100% Recovery between 0.70m and 1.70m. ... 50% Recovery between 1.70m and 2.70m. ... 70% Recovery between 2.70m and 3.70m. ... Borehole aborted at 3.70m depth. (see Remarks)
					(0.40)	Light grey sandy SILT. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	0.70				
					1.00	Orangish brown slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	1.00	ES02			
					(2.70)		1.70				
01/12/14			3.00				2.00	ES03			
							2.70				
01/12/14							3.00	ES04			
							3.70				
						End of Borehole					

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. An inspection pit was hand excavated to 0.70m depth prior to boring commencing. 2. Concrete floor was diamond cored between 0.00m and 0.10m. 3. Water seepage encountered at 3.00m depth, rising to 2.90m (20min). 4. Borehole collapsing at 3.70m and borehole aborted. 5. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS07

Project
St Giles Circus

Job No 14/2669	Date Started 26/11/14 Date Completed 26/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 4.00m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
26/11/14		Dry			0.15	CONCRETE.					
					0.50	Dark brown clayey very gravelly fine to coarse SAND. Gravel is angular to rounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.50	ES01		... VOC 0.0ppm	
					1.60	Orangish brown slightly clayey sandy subangular to subrounded fine to medium flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.00			... VOC 0.0ppm ... 50% Recovery between 1.20m and 2.00m.	
					2.10		2.00	ES02		... VOC 0.0ppm ... 100% Recovery between 2.00m and 3.00m.	
					1.90	Orangish brown slightly clayey slightly gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.00	ES03		... VOC 0.0ppm ... 100% Recovery between 3.00m and 4.00m.	
26/11/14		3.50					3.00			... VOC 0.0ppm ... 100% Recovery between 3.00m and 4.00m.	
26/11/14					4.00	End of Borehole		ES04			

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Concrete diamond cored between 0.00m and 0.15m. 3. Water seepage encountered at 3.50m depth, rising to 2.90m (20min). 4. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS08

Project
St Giles Circus

Job No 14/2669	Date Started 24/11/14 Date Completed 24/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 1.20m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
24/11/14		Dry			0.10	CONCRETE.					
					0.35	Dark brown sandy gravelly CLAY. Gravel is angular to rounded fine to coarse flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.30	ES01			
					(0.85)			1.00	ES02		
24/11/14		Dry			1.20	Dark greenish grey mottled orangish brown slightly clayey very sandy subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.20				
						End of Borehole					... Borehole aborted at 1.20m depth. (see Remarks)

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth. 2. Concrete diamond cored between 0.00m and 0.10m. 3. Borehole aborted at base of inspection pit 1.20m due to access restrictions. 4. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No. 01	Driller DS	Logged By MP	
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CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS09

Project
St Giles Circus

Job No 14/2669	Date Started 28/11/14 Date Completed 28/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 1.20m
Client Consolidated Developments Limited			Method/ Plant Used Hand Held Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
28/11/14		Dry			0.20	Reinforced CONCRETE.					
					(1.00)	Orangish brown slightly clayey very sandy angular to rounded fine to coarse flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	0.50	ES01			
28/11/14		Dry			1.20	End of Borehole	1.00	ES02			... 100% Recovery between 1.00m and 1.20m. ... Borehole aborted at 1.20m depth. (see Remarks)

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. An inspection pit was hand excavated to 1.00m depth prior to boring commencing. 2. Borehole aborted at 1.20m depth due to presence of impenetrable strata. 3. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS10

Project
St Giles Circus

Job No 14/2669	Date Started 28/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 4.00m
Date Completed 28/11/14		Method/ Plant Used Dynamic Sampler		Sheet 1 of 1
Client Consolidated Developments Limited				

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
28/11/14		Dry			0.15	Tiles over CONCRETE.					
					0.50	Dark brown clayey very sandy angular to rounded fine to coarse GRAVEL comprising flint, brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)	0.50	ES01			
					0.80	Dark brown and orangish brown slightly clayey to clayey very sandy angular to rounded fine to coarse flint GRAVEL. Sand is fine to coarse. (MADE GROUND)	1.00	ES02			... 100% Recovery between 1.20m and 2.00m.
					(2.00)	Dark brown and orangish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	1.20				
					2.00		2.00	ES03			... 100% Recovery between 2.00m and 3.00m.
					2.80	... becoming dark brown and black between 2.60m and 2.80m.	2.70	ES04			
					(1.20)	Orangish brown gravelly fine to medium SAND. Gravel is angular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	3.00				... 80% Recovery between 3.00m and 4.00m.
					4.00		3.80	ES05			
28/11/14		Dry				End of Borehole					

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS13

Project
St Giles Circus

Job No 14/2669	Date Started 02/12/14 Date Completed 02/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 3.70m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
02/12/14		Dry			0.10 0.20 (0.40) 0.60	CONCRETE over HDPE membrane. GRAVEL and COBBLES of concrete and brick fragments. (MADE GROUND)	0.50	ES01		... 100% Recovery between 1.20m and 2.00m. ... 100% Recovery between 2.00m and 3.00m. ... 100% Recovery between 3.00m and 3.70m.	
					(0.60) 1.20	Dark brown clayey sandy angular to rounded fine to coarse GRAVEL comprising flint, brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)	1.00 1.20	ES02			
					(2.50)	Orangish brown mottled bluish grey slightly gravelly to gravelly silty fine to coarse SAND. Gravel is subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.00 2.00	ES03			
						Very dense, orangish brown silty very gravelly fine to coarse SAND. Gravel is subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	3.00 3.00	ES04			
02/12/14		Dry			3.70	End of Borehole	3.70			... Borehole aborted at 3.70m depth. (see Remarks)	

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Borehole aborted at 3.70m depth due to refusal. 3. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS14

Project
St Giles Circus

Job No 14/2669	Date Started 27/11/14 Date Completed 27/11/14	Ground Level (mOD)	Co-Ordinates	Final Depth 6.00m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
27/11/14		Dry			0.15	Flag stone. (MADE GROUND)						
					(0.45) 0.60	Dark brown very sandy very gravelly CLAY. Gravel is angular to rounded fine to coarse flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.50	ES01				
					(0.90) 1.50	Orangish brown very sandy subrounded fine to medium flint GRAVEL. Sand is fine to coarse. (RIVER TERRACE DEPOSITS)	1.00 1.20	ES02			... 50% Recovery between 1.20m and 2.00m.	
					2.00 2.00	Orangish brown gravelly fine to medium SAND. Gravel is subrounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.00 2.00	ES03			... 50% Recovery between 2.00m and 3.00m.	
					(3.00)		3.00 3.00	ES04			... 70% Recovery between 3.00m and 4.00m.	
27/11/14		3.50			4.50	Stiff, dark greyish brown silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION)	4.00 4.00	ES05			... 100% Recovery between 4.00m and 5.00m.	
					(1.50)		5.00 5.00	ES06			... 50% Recovery between 5.00m and 6.00m.	
27/11/14					6.00	End of Borehole	5.80	ES07				

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Water seepage encountered at 3.50m depth, rising to 3.00m (20min). 3. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By MP	
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 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No
WS15

Project
St Giles Circus

Job No 14/2669	Date Started 03/12/14 Date Completed 03/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 4.50m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
03/12/14		Dry			0.20	Wooden floor boards over CONCRETE.					
					(0.60)	Orangish brown sandy angular to rounded fine to coarse GRAVEL comprising flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.50	ES01			
					0.80	Orangish brown silty slightly gravelly fine to coarse SAND. Gravel is angular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	1.00 1.20	ES02		... 100% Recovery between 1.20m and 2.20m.	
					(3.35)		2.00 2.20	ES03		... 100% Recovery between 2.20m and 3.20m.	
03/12/14		2.80					3.00 3.20	ES04		... 100% Recovery between 3.20m and 4.20m.	
					4.15	Dark grey silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION)	4.00 4.20	ES05		... No Recovery between 4.20m and 4.50m.	
03/12/14					4.50	End of Borehole				... Borehole aborted at 4.50m depth. (see Remarks)	

Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Water seepage encountered at 2.80m depth, rising to 2.50m (20min). 3. Borehole aborted at 4.50m depth due to refusal. 4. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880 Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS22

Project
St Giles Circus

Job No 14/2669	Date Started 03/12/14 Date Completed 03/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 3.20m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
03/12/14		Dry			0.15	CONCRETE.					
					(1.35)	Dark orangish brown sandy angular to rounded fine to coarse GRAVEL comprising flint and rare brick fragments. (MADE GROUND) ... with coal fragments below 0.80m.	0.50	ES01		... 80% Recovery between 1.20m and 2.20m.	
					1.50		1.00	ES02			
					1.70		1.20				
					3.00	Dark brown sandy gravelly CLAY. Gravel is angular to rounded fine to coarse flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	1.50	ES03			
					(1.30)	Orangish brown silty gravelly fine to coarse SAND. Gravel is angular to rounded fine to medium flint. (RIVER TERRACE DEPOSITS)	2.20	ES04			... 50% Recovery between 2.20m and 3.20m.
03/12/14		2.00			3.00		2.50	ES05			
03/12/14					3.20	Orangish brown sandy CLAY. Sand is fine to coarse. (RIVER TERRACE DEPOSITS) End of Borehole	3.00			... Borehole aborted at 3.20m depth. (see Remarks)	
							3.20				

Chiselling (m)			Water Added (m)			GENERAL REMARKS 1. Borehole drilled from the base of old foundation trial pit at 1.20m depth. 2. Water seepage encountered at 2.00m depth, staying at 2.00m (20min). 3. Borehole collapsing at 3.20m depth and borehole aborted. 4. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To		

Issue No. 01	Driller DS	Logged By MP	
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Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



Borehole No

WS23

Project
St Giles Circus

Job No 14/2669	Date Started 03/12/14 Date Completed 03/12/14	Ground Level (mOD)	Co-Ordinates	Final Depth 3.00m
Client Consolidated Developments Limited			Method/ Plant Used Dynamic Sampler	Sheet 1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
03/12/14		Dry			0.10	CONCRETE.	0.30	ES01		... 100% Recovery between 1.00m and 2.00m.		
					(1.35)	Orangish brown gravelly very sandy CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to coarse flint and rare brick fragments. (MADE GROUND)	1.00 1.00	ES02				
03/12/14		2.00			(0.65)	Orangish brown silty gravelly fine to coarse SAND. Gravel is angular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)	2.00 2.00	ES03				... 100% Recovery between 2.00m and 3.00m.
					(0.90)	Orangish brown and dark grey silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION)	2.80	ES04				
03/12/14					3.00	End of Borehole	3.00			... Borehole aborted at 3.00m depth. (see Remarks)		

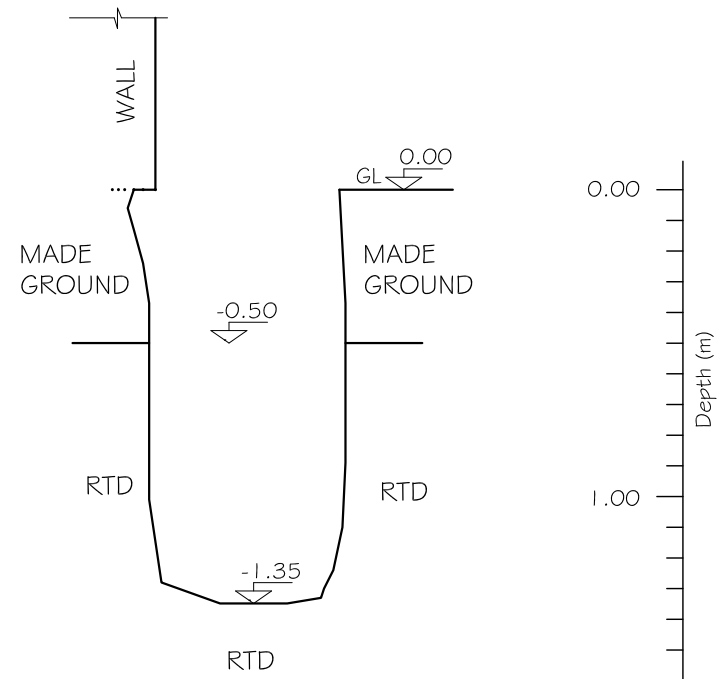
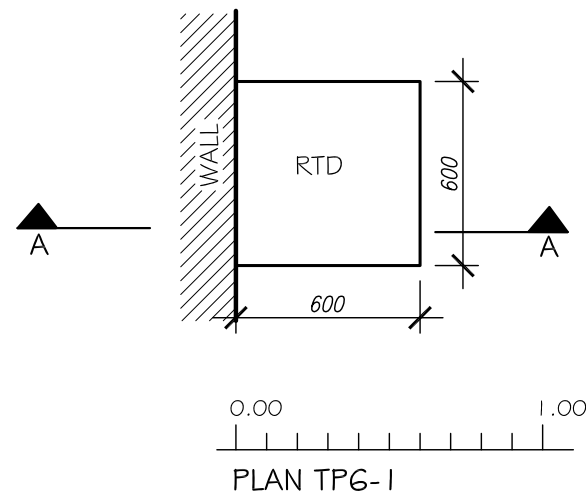
Chiselling (m)			Water Added (m)		GENERAL REMARKS 1. Borehole drilled from the base of old foundation trial pit at 1.00m depth. 2. Water seepage encountered at 2.00m depth, rising to 1.50m (20min). 3. Borehole collapsing at 3.00m depth and borehole aborted. 4. Borehole backfilled with bentonite pellets and made good upon completion.
From	To	Hours	From	To	

Issue No. 01	Driller DS	Logged By MP	
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10. TRIAL PIT SKETCHES

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP6-1 log.



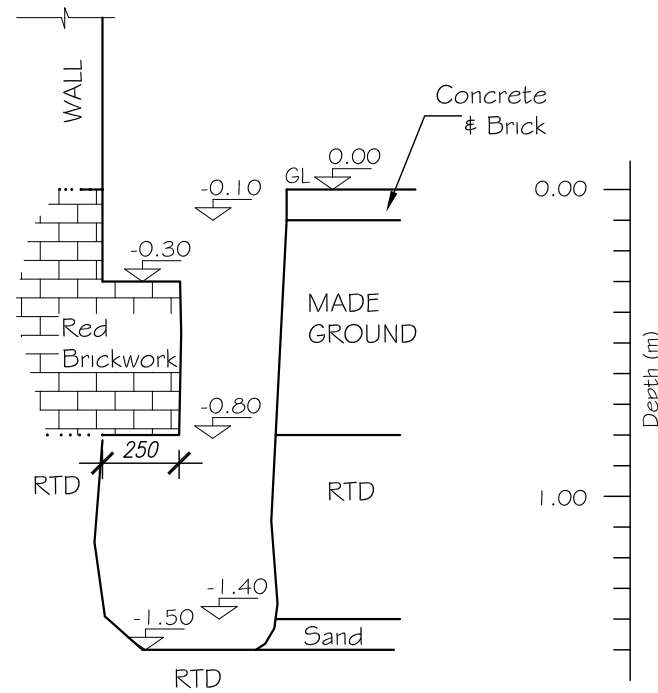
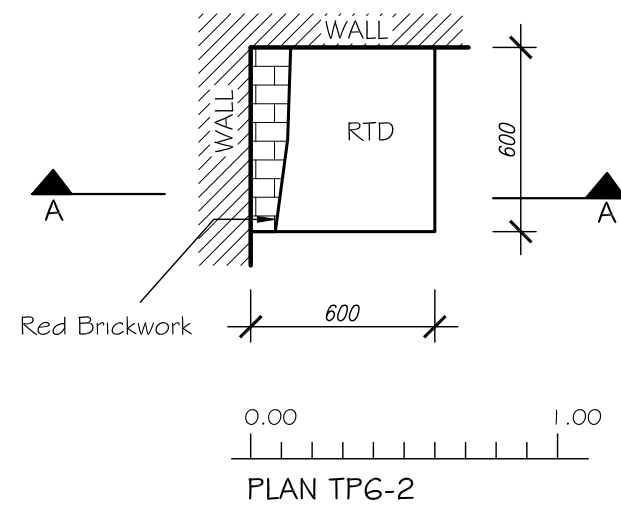
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 Unit 8, Warple Mews
 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TP6-1 Plan & Section A-A				
Dwg. No:	142669/02				
Status:	Issue				
Scale:	1:25				
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NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP6-2 log.



No	Revision	Drawn	Checked	Passed	Date

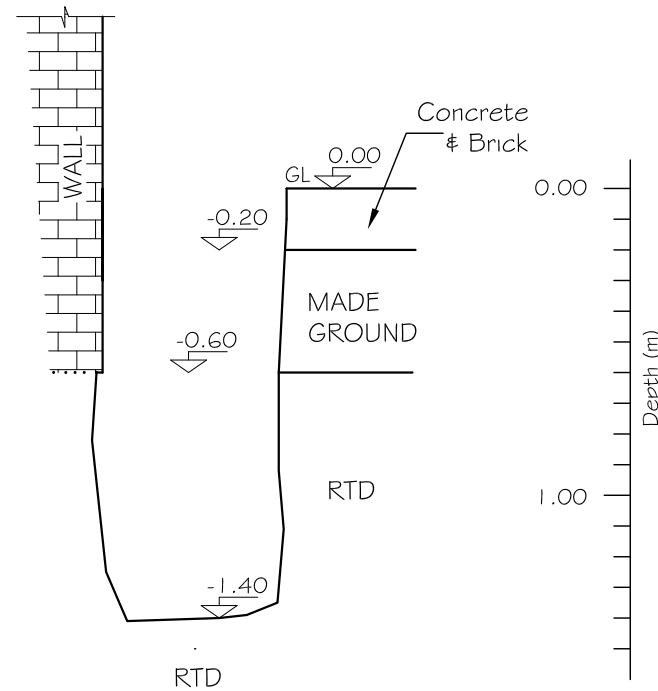
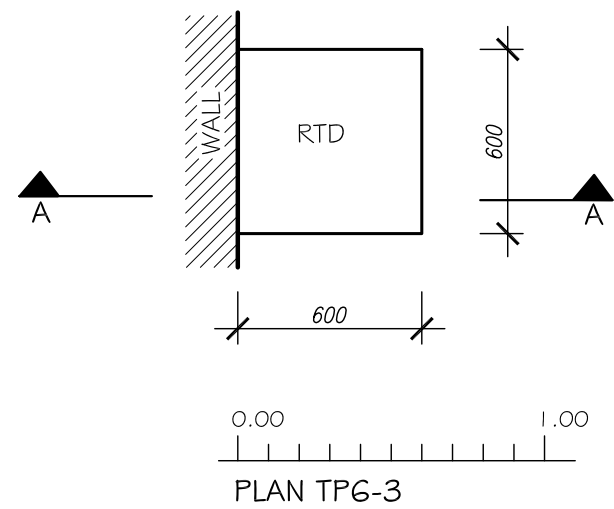
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

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Project: St Giles Circus					
Title: TP6-2 Plan & Section A-A					
Dwg. No: 142669/03					
Status: Issue					
Scale: 1:25					
Drawn EV	Checked OS	Passed MD	Date February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.

2. Also refer to TP6-3 log.



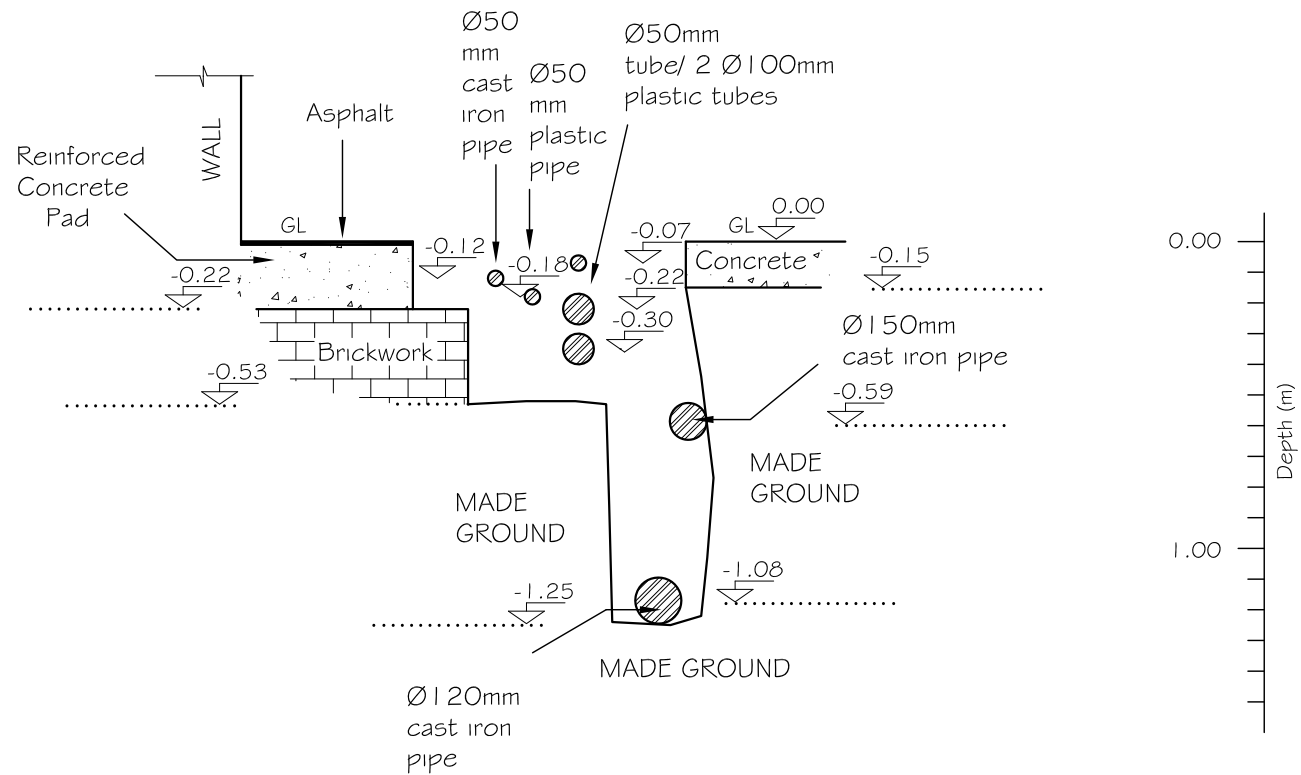
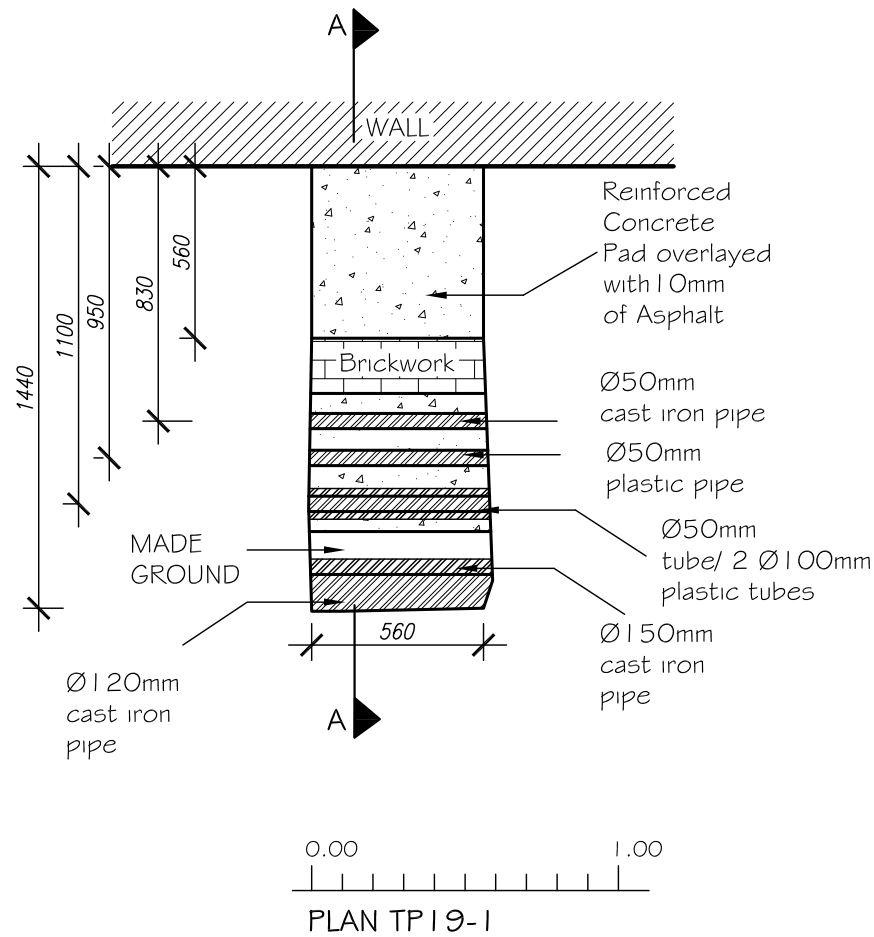
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

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Project: St Giles Circus			
Title: TP6-3 Plan & Section A-A			
Dwg. No: 142669/04			
Status: Issue			
Scale: 1:25			
Drawn EV	Checked OS	Passed MD	Date February 15

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP19-1 log.



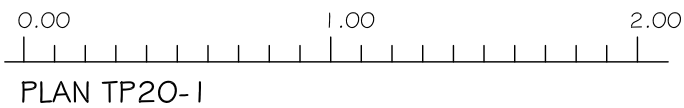
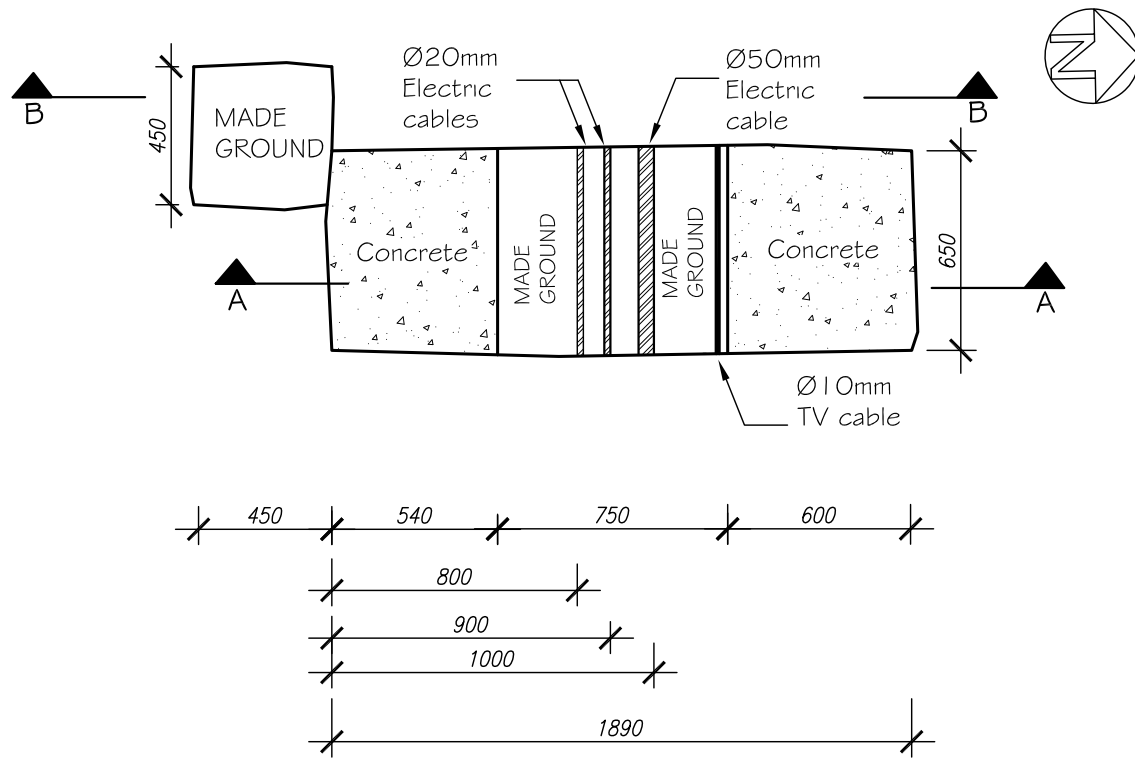
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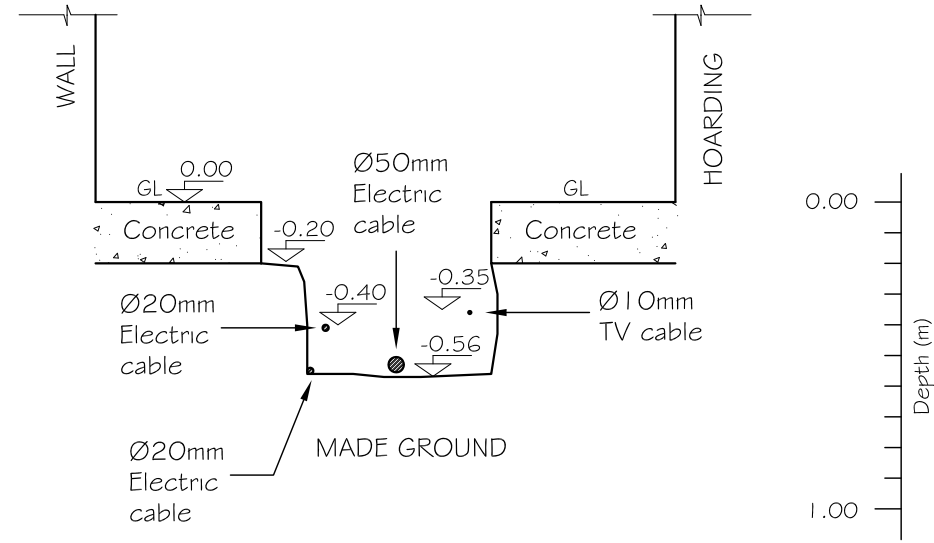
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Project:	St Giles Circus				
Title:	TP19-1 Plan & Section A-A				
Dwg. No:	142669/05				
Status:	Issue				
Scale:	1:25				
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EV	OS	MD	February 15		

NOTES

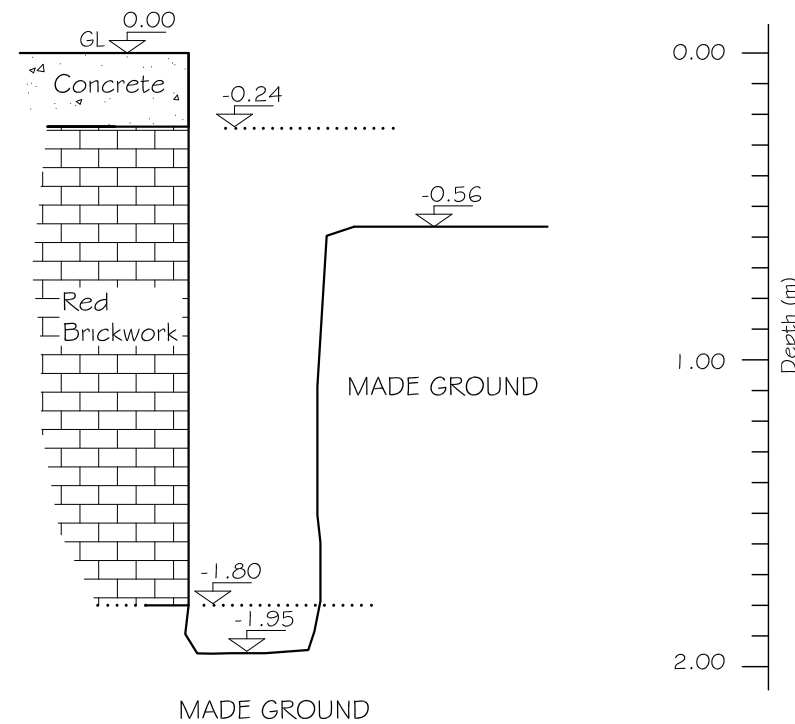
1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP20-1 log.



PLAN TP20-1



SECTION A-A
TP20-1



SECTION B-B
TP20-1

No	Revision	Drawn	Checked	Passed	Date

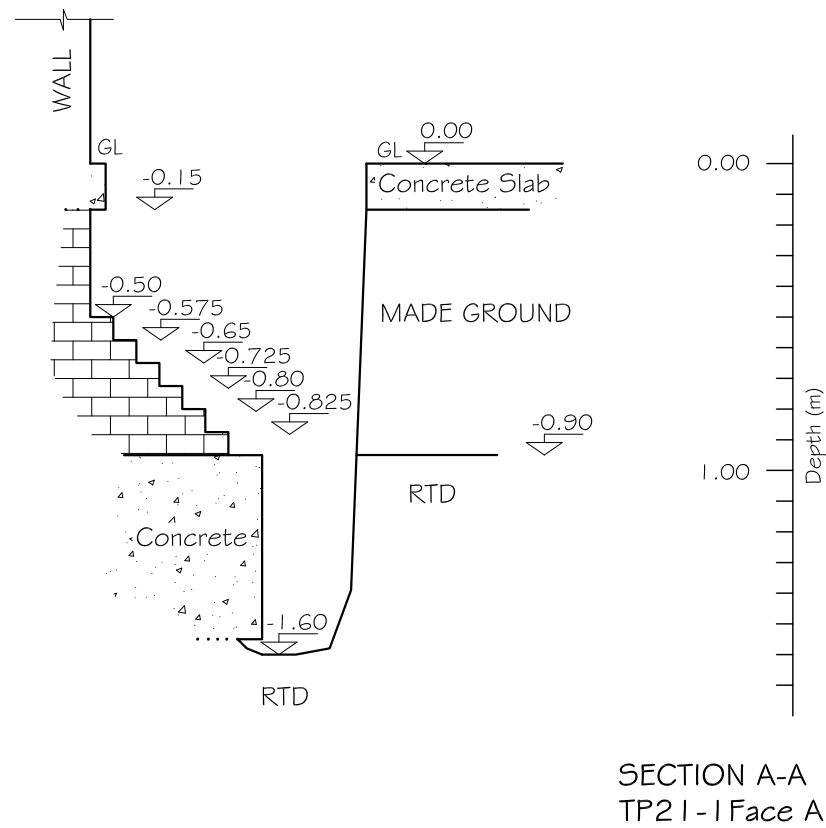
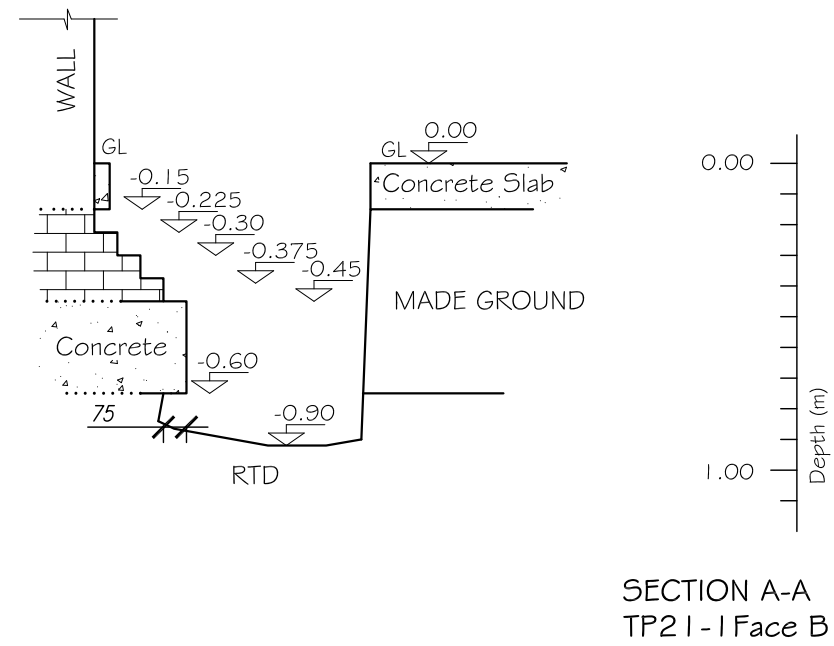
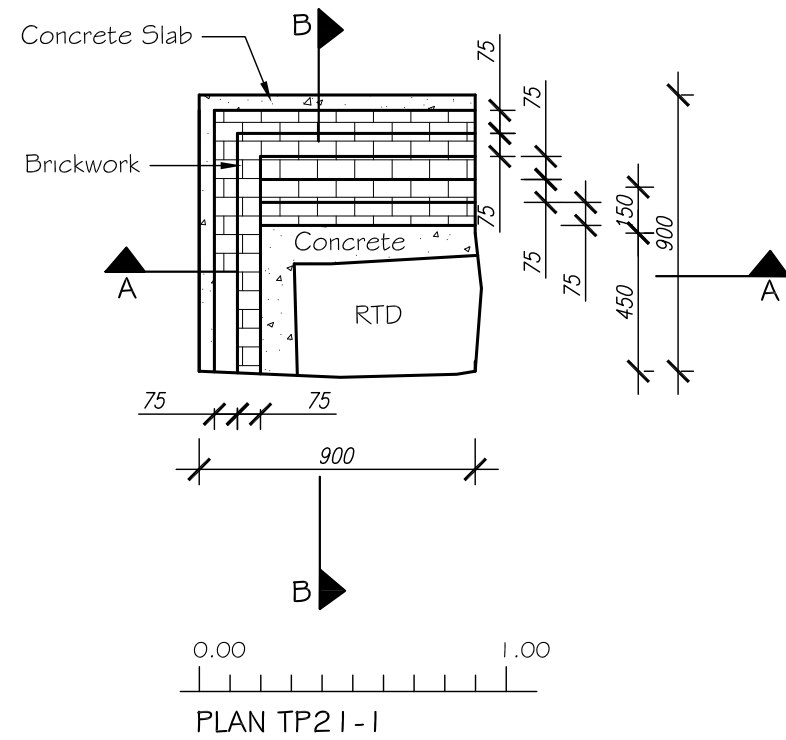
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

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Title:	TP20-1 Plan & Sections A-A & B-B		
Dwg. No:	142669/06		
Status:	Issue		
Scale:	1:25		
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EV	OS	MD	February 15

NOTES

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2. Also refer to TP21-1 log.



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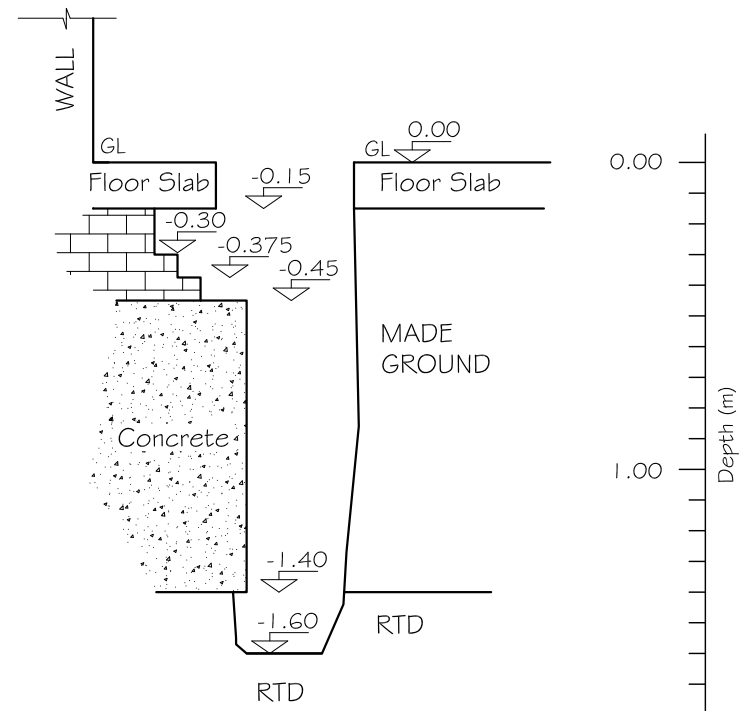
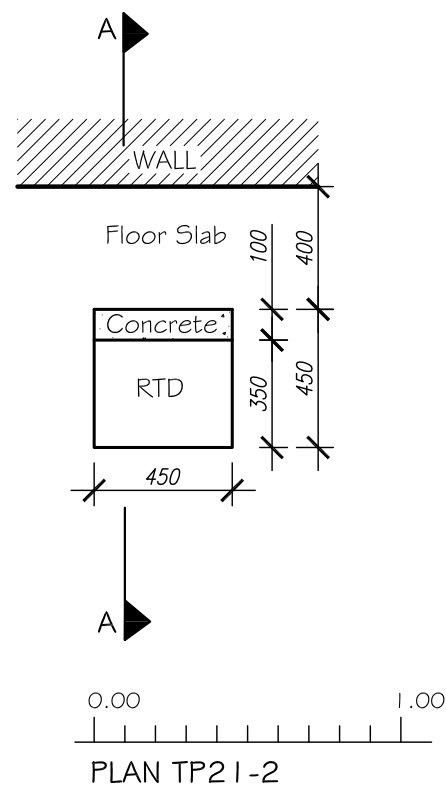
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

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Title:	TP21-1 Plan & Sections A-A & B-B				
Dwg. No:	142669/07				
Status:	Issue				
Scale:	1:25				
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EV	OS	MD	February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.

2. Also refer to TP2 I-2 log.



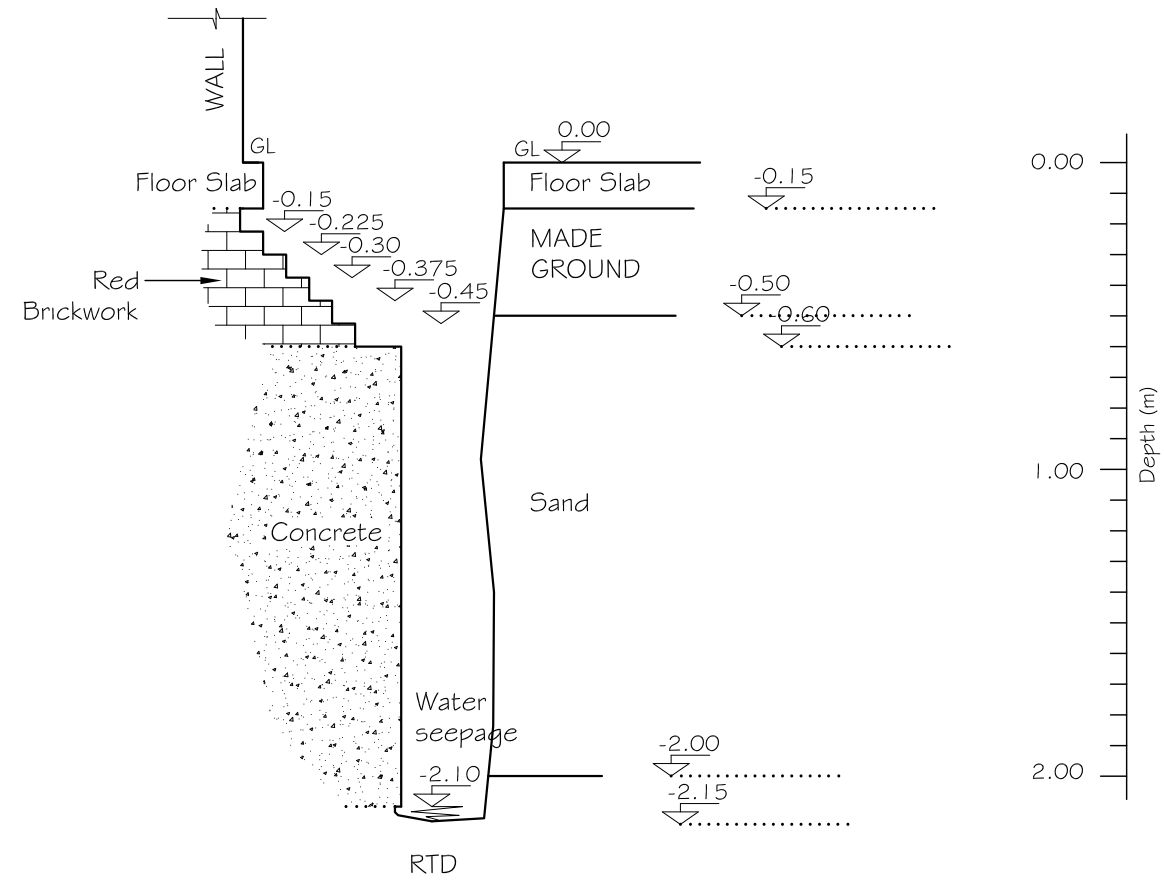
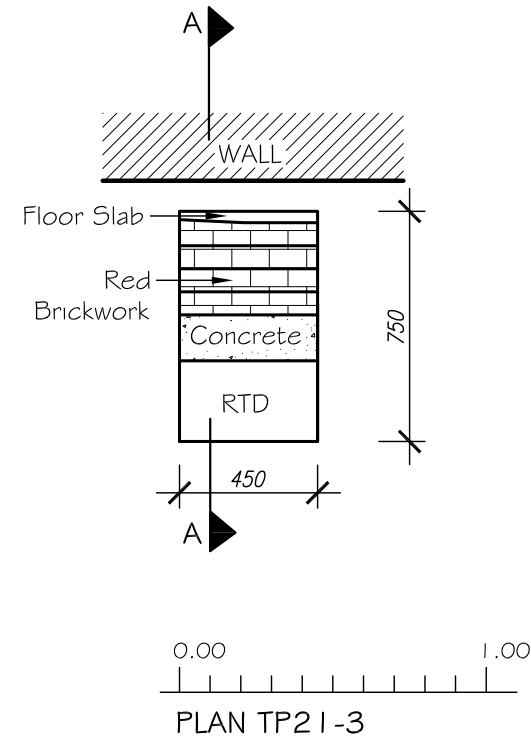
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
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Project:	St Giles Circus				
Title:	TP21-2 Plan & Section A-A				
Dwg. No:	142669/08				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

NOTES

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2. Also refer to TP2 I-3 log.



No	Revision	Drawn	Checked	Passed	Date

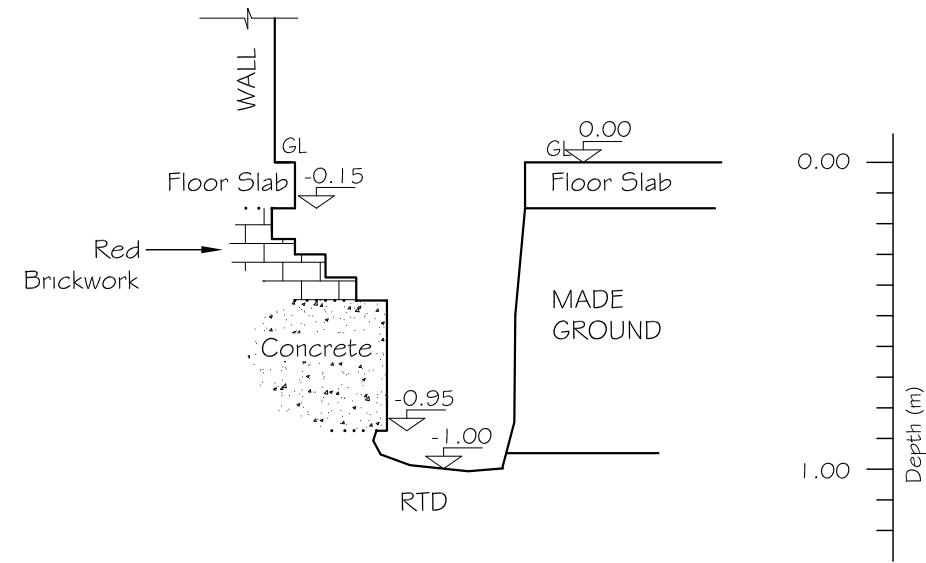
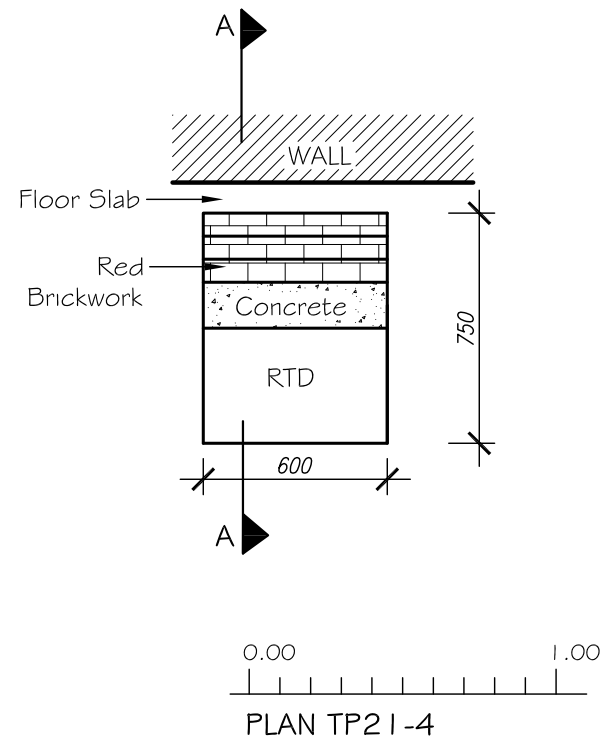
CONCEPT SITE INVESTIGATIONS
 Unit 8, Warple Mews
 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client: Consolidated Developments Limited Partnership			
Project: St Giles Circus			
Title: TP21-3 Plan & Section A-A			
Dwg. No: 142669/09			
Status: Issue			
Scale: 1:25			
Drawn EV	Checked OS	Passed MD	Date February 15

NOTES

1. This drawing should not be scaled, only use annotated dimensions.

2. Also refer to TP2 I -4 log.



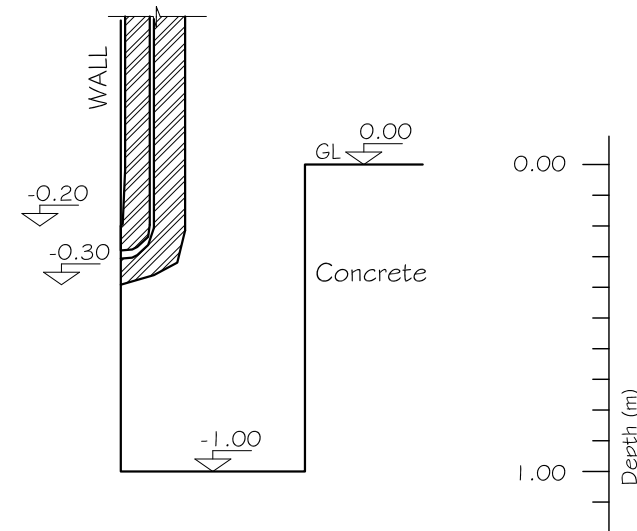
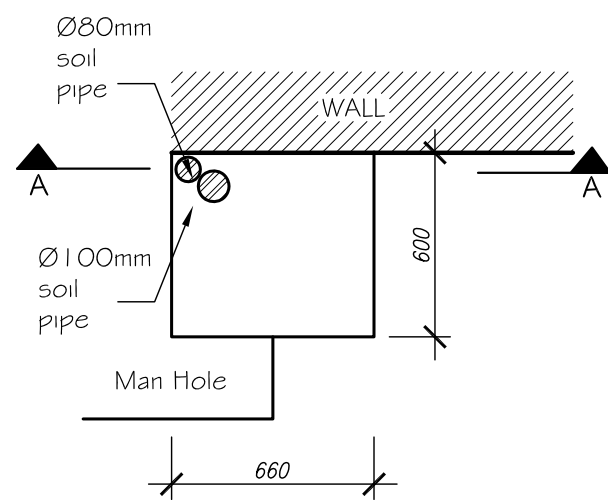
No	Revision	Drawn	Checked	Passed	Date

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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
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www.conceptconsultants.co.uk

Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TP21-4 Plan & Section A-A				
Dwg. No:	142669/10				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to OPO1 & OPO3 log.



SECTION A-A
TP23-1

No	Revision	Drawn	Checked	Passed	Date

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www.conceptconsultants.co.uk

Client: Consolidated Developments
 Limited Partnership

Project: St Giles Circus

Title: TP19-1
 Plan & Sections A-A & B-B

Dwg. No: 142669/11

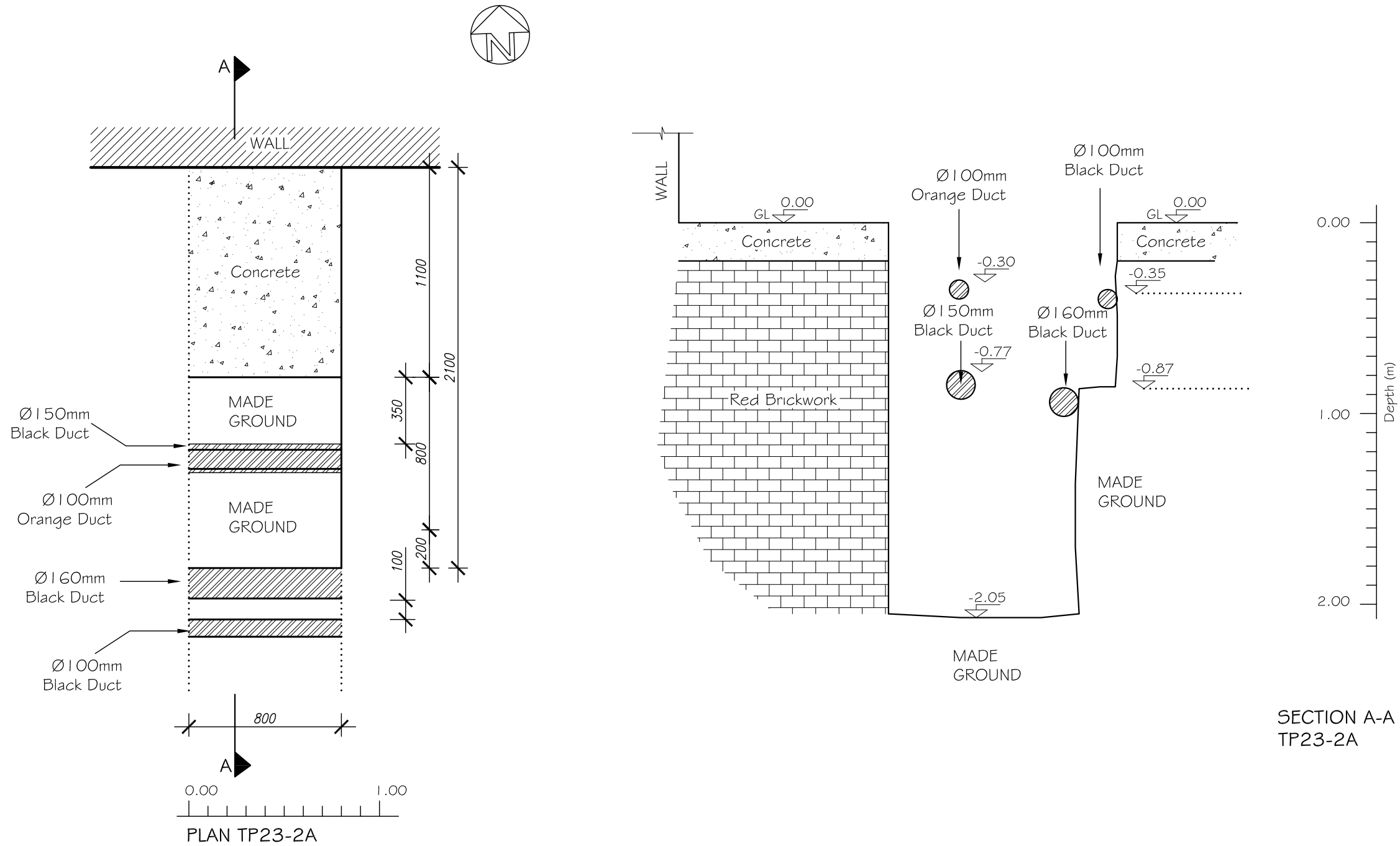
Status: Issue

Scale: 1:25

Drawn	Checked	Passed	Date
EV	OS	MD	February 15

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP23-2A log.



No	Revision	Drawn	Checked	Passed	Date

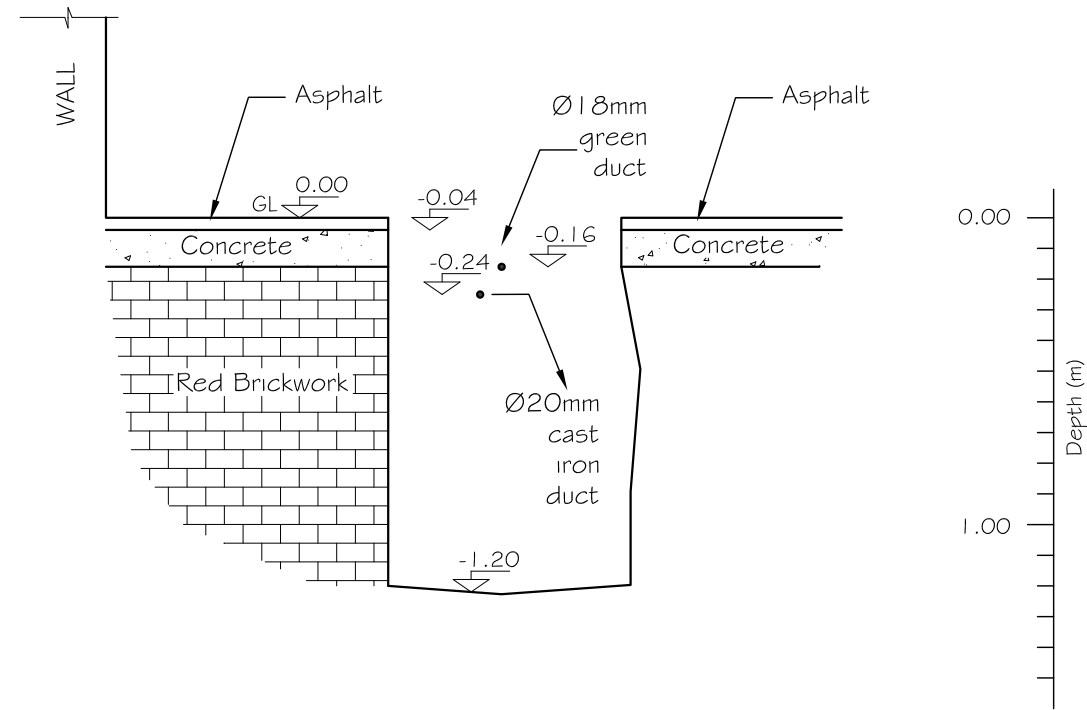
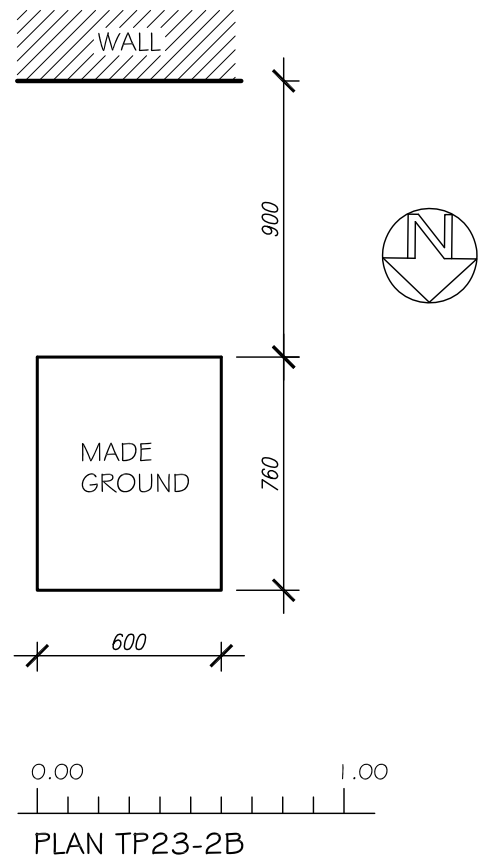
CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews
 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
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Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TP23-2A Plan & Section A-A				
Dwg. No:	142669/12				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP23-2B log.



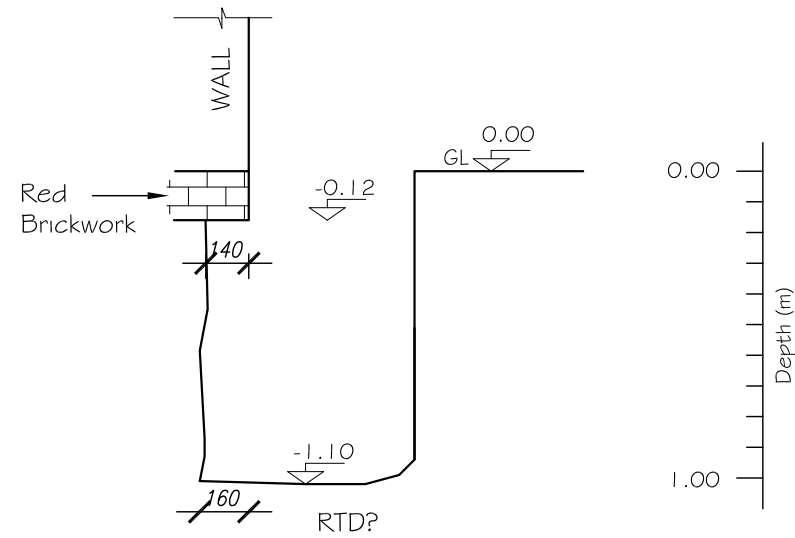
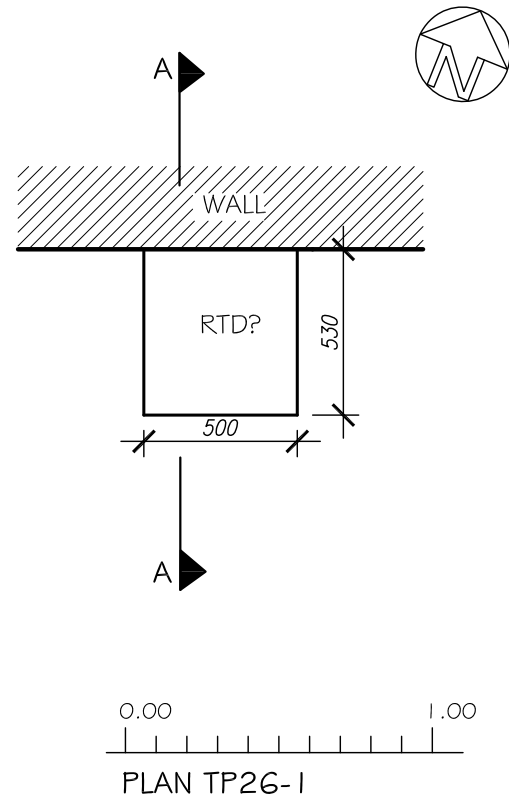
No	Revision	Drawn	Checked	Passed	Date

CONCEPT SITE INVESTIGATIONS
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
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www.conceptconsultants.co.uk

Client: Consolidated Developments Limited Partnership			
Project: St Giles Circus			
Title: TP23-2B Plan & Section A-A			
Dwg. No: 142669/13			
Status: Issue			
Scale: 1:25			
Drawn EV	Checked OS	Passed MD	Date February 15

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP26-1 log.



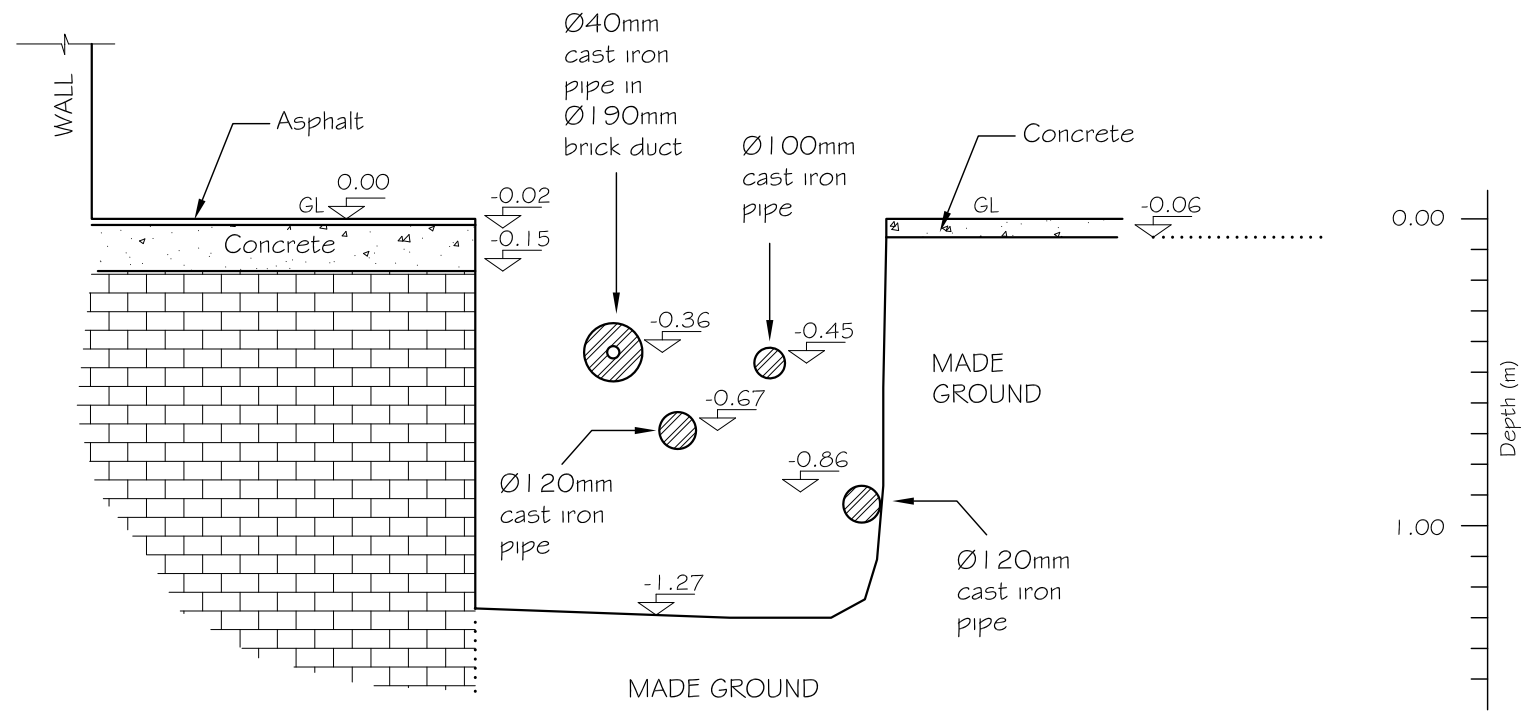
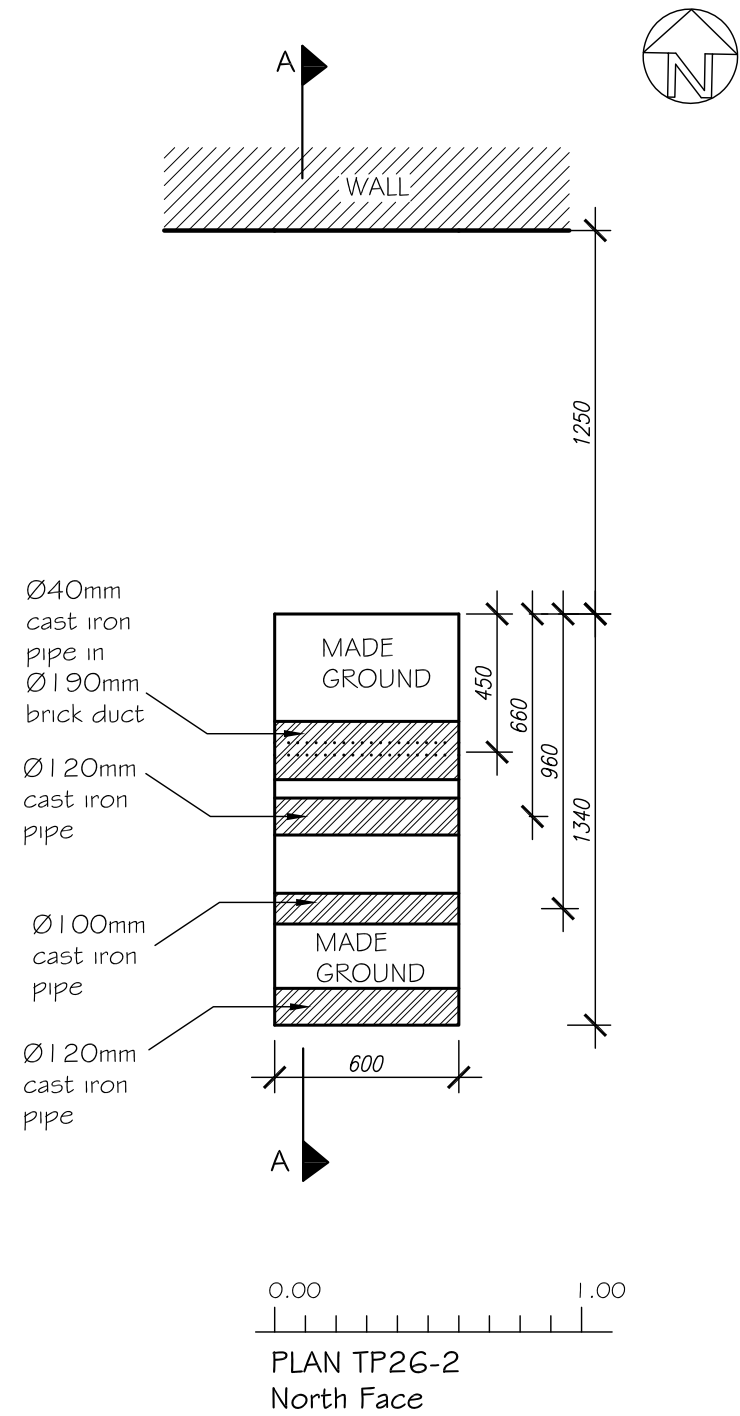
No	Revision	Drawn	Checked	Passed	Date

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 Unit 8, Warple Mews
 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client: Consolidated Developments Limited Partnership			
Project: St Giles Circus			
Title: TP26-1 Plan & Sections A-A & B-B			
Dwg. No: 142669/14			
Status: Issue			
Scale: 1:25			
Drawn EV	Checked OS	Passed MD	Date February 15

NOTES

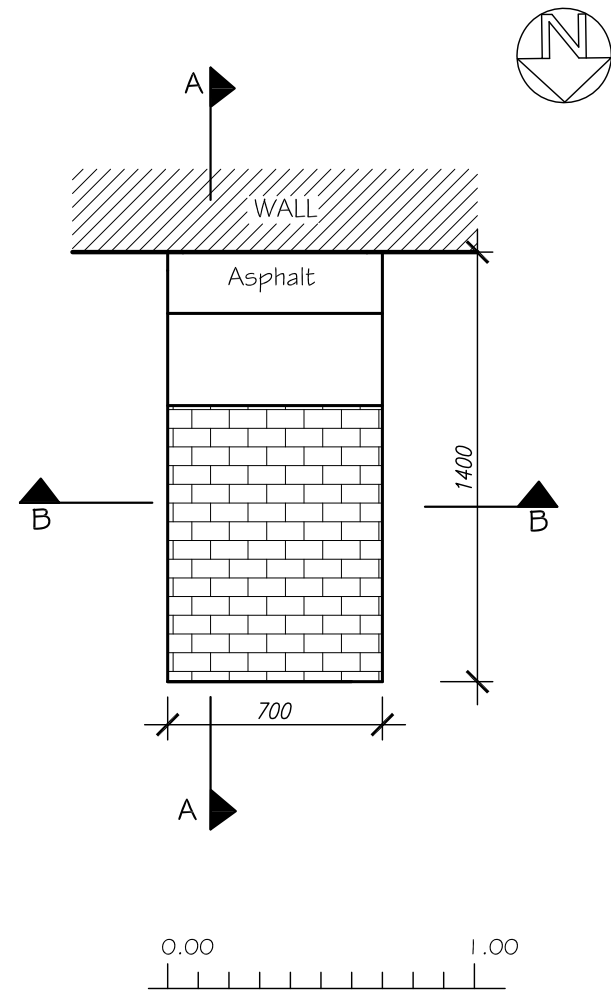
1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP26-2 North Face log.



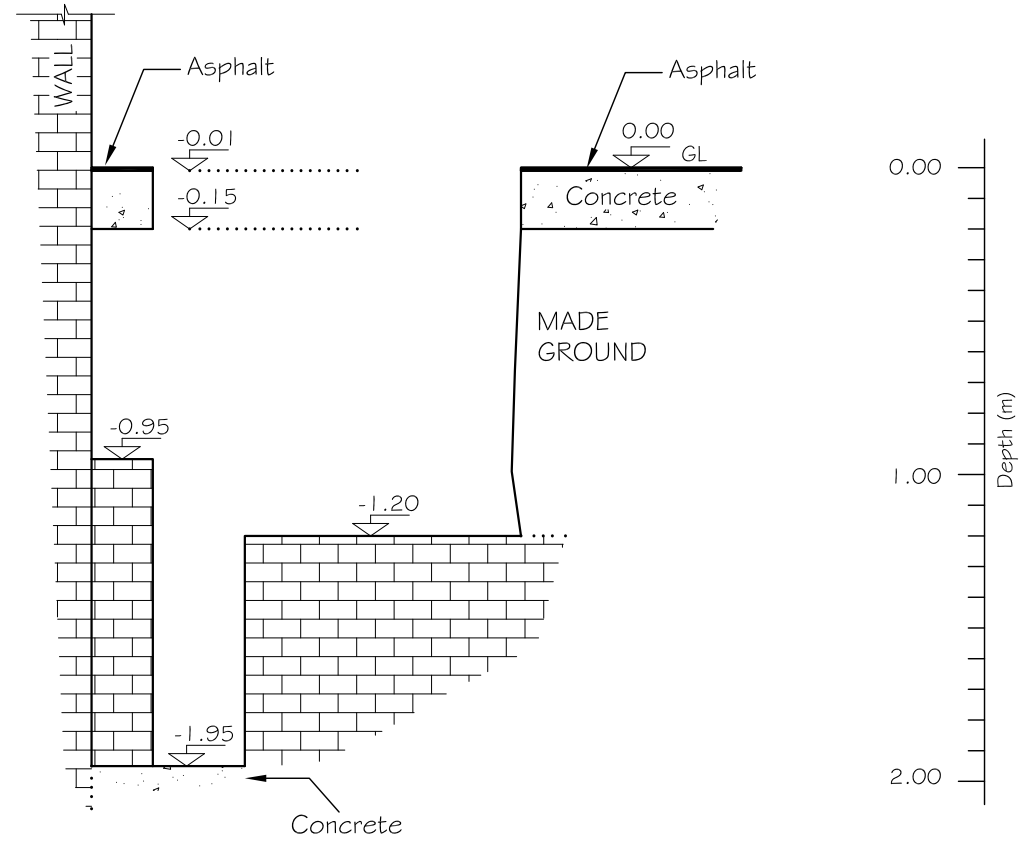
No	Revision	Drawn	Checked	Passed	Date

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 London W3 0RF Fax: 020 8811 2881
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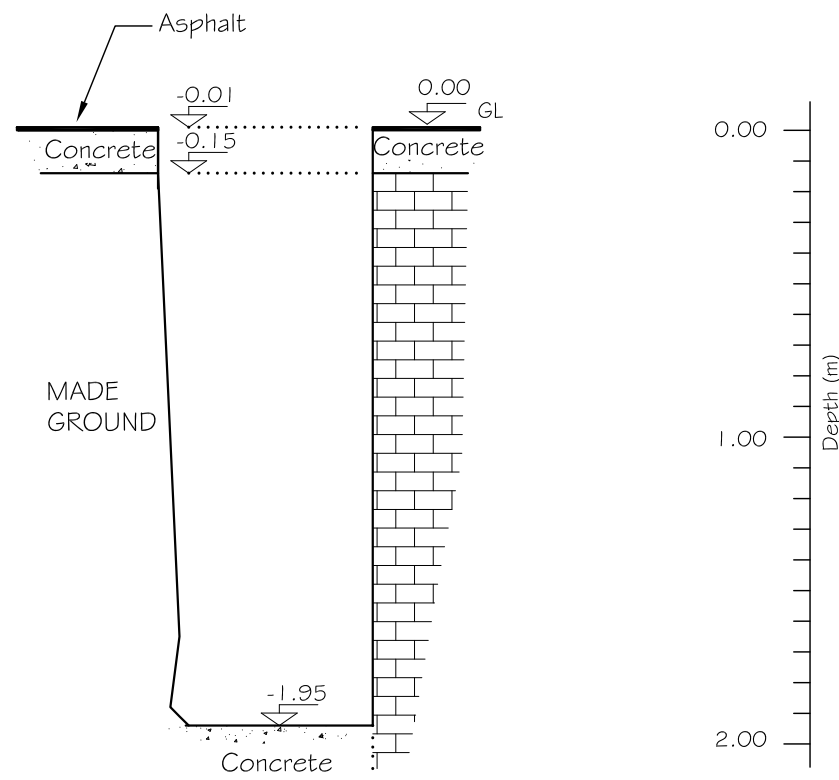
Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TP26-2 North Face Plan & Section A-A				
Dwg. No:	142669/15				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		



PLAN TP26-2
South Face



SECTION A-A
TP26-2
South Face



SECTION B-B
TP26-2
South Face

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP26-2 South Face log.

No	Revision	Drawn	Checked	Passed	Date

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 Warple Way Tel: 020 8811 2880
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Client: Consolidated Developments
 Limited Partnership

Project: St Giles Circus

Title: TP26-2 South Face
 Plan & Section A-A

Dwg. No: 142669/16

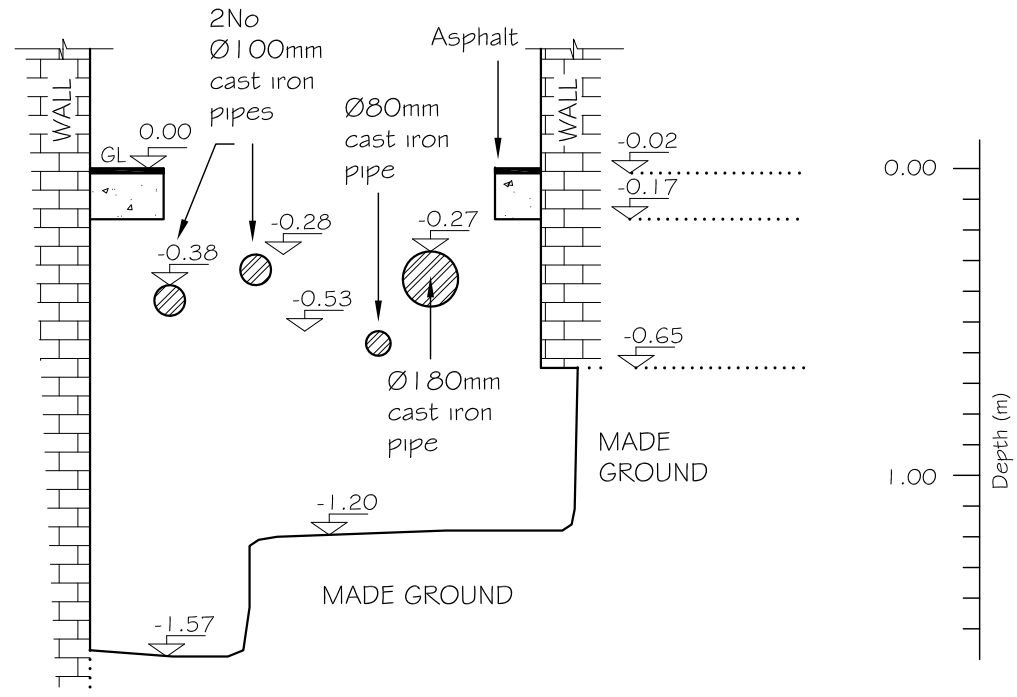
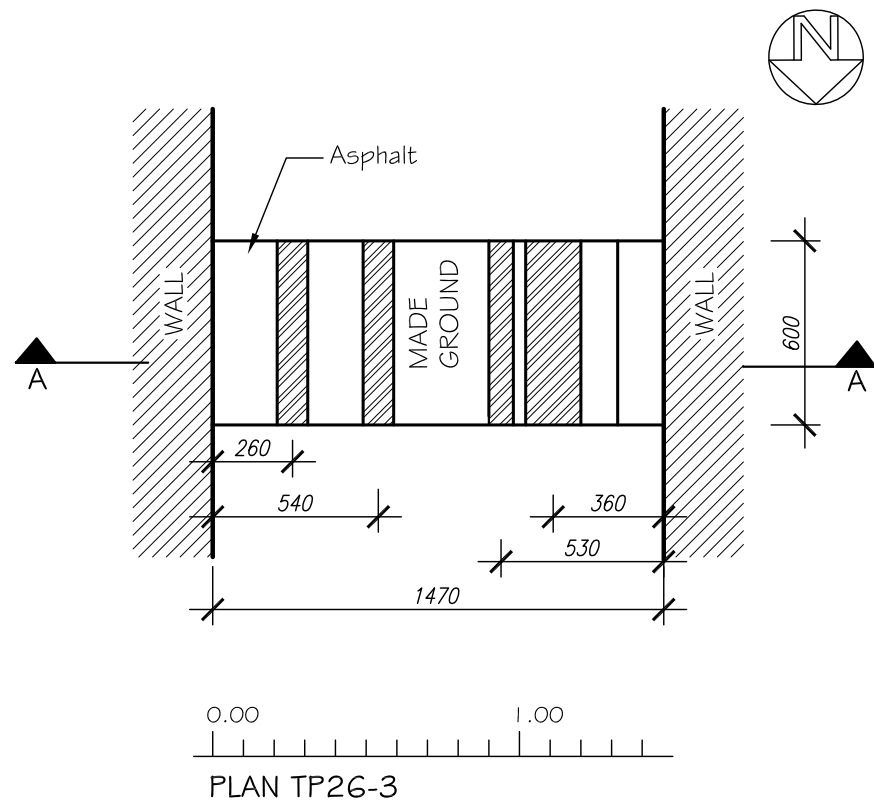
Status: Issue

Scale: 1:25

Drawn	Checked	Passed	Date
EV	OS	MD	February 15

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP26-3 log.



No	Revision	Drawn	Checked	Passed	Date

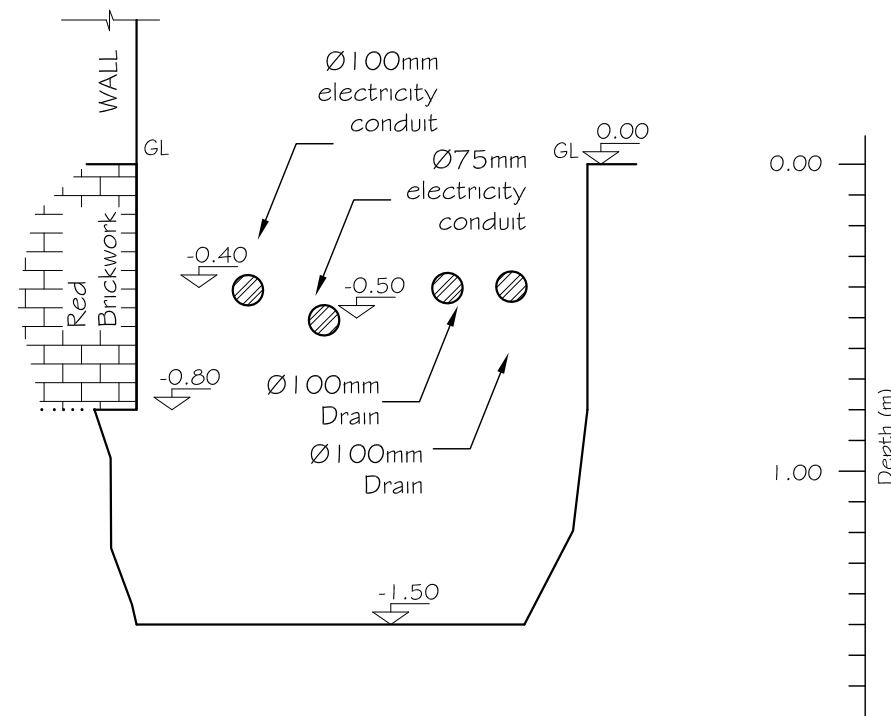
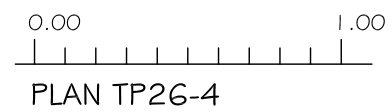
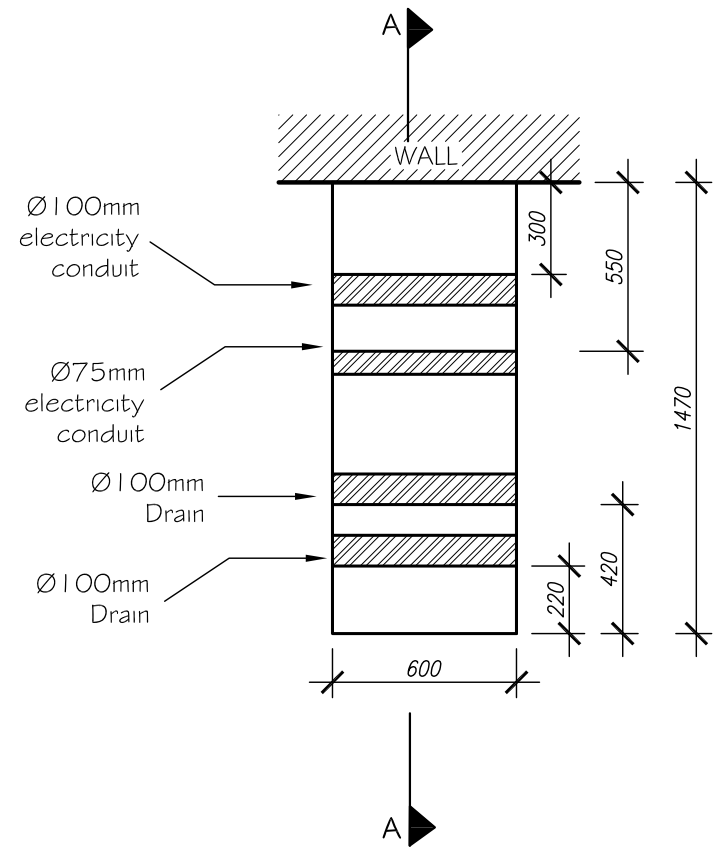
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
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Client: Consolidated Developments Limited Partnership			
Project: St Giles Circus			
Title: TP26-3 Plan & Section A-A			
Dwg. No: 142669/17			
Status: Issue			
Scale: 1:25			
Drawn EV	Checked OS	Passed MD	Date February 15

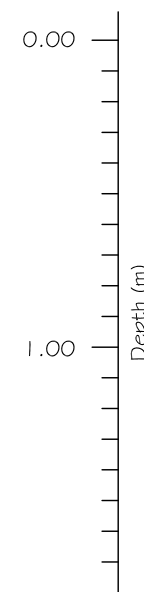
NOTES

1. This drawing should not be scaled, only use annotated dimensions.

2. Also refer to TP26-4 log.



SECTION A-A
TP26-4



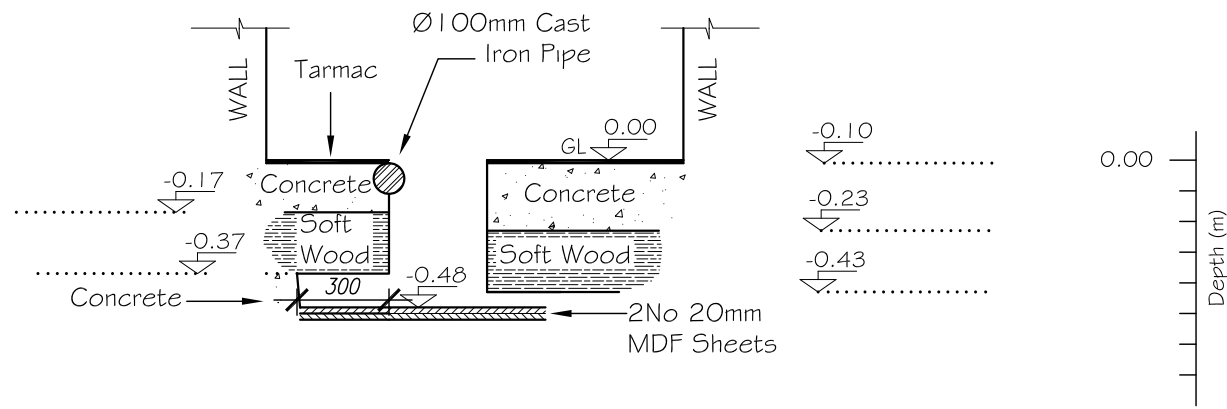
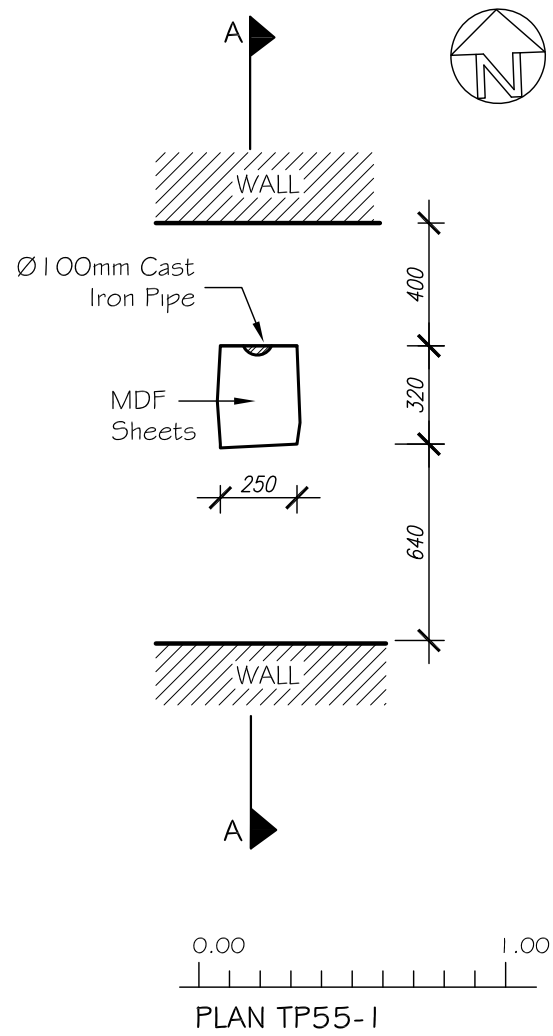
No	Revision	Drawn	Checked	Passed	Date

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 Unit 8, Warple Mews
 Warple Way London W3 0RF
 Tel: 020 8811 2880 Fax: 020 8811 2881
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Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TP26-4 Plan & Section A-A				
Dwg. No:	142669/18				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP55-1 log.



No	Revision	Drawn	Checked	Passed	Date

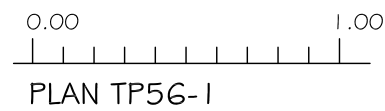
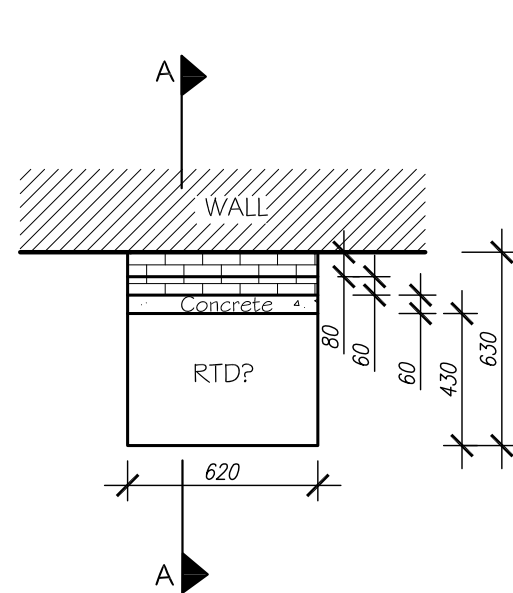
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 Unit 8, Warple Mews
 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TP55-1 Plan & Section A-A				
Dwg. No:	142669/19				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

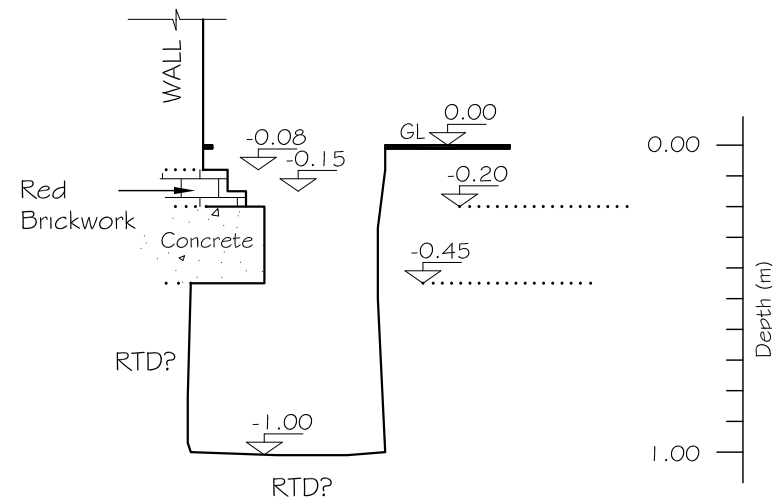
NOTES

1. This drawing should not be scaled, only use annotated dimensions.

2. Also refer to TP56-1 log.



PLAN TP56-1



SECTION A-A
TP56-1

No	Revision	Drawn	Checked	Passed	Date

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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client: Consolidated Developments
 Limited Partnership

Project: St Giles Circus

Title: TP56-1
 Plan & Section A-A

Dwg. No: 142669/21

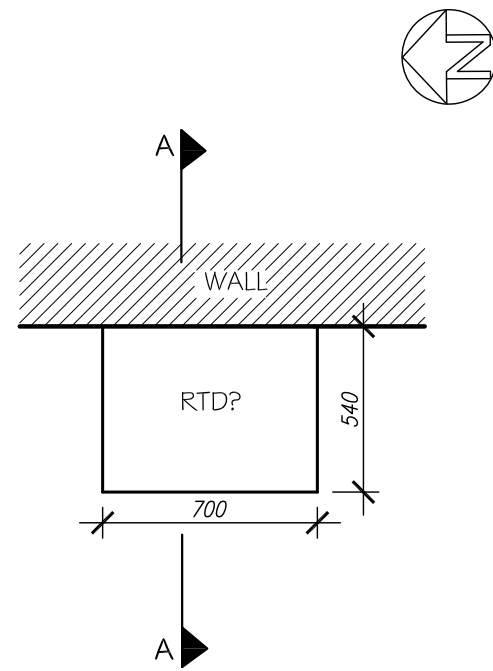
Status: Issue

Scale: 1:25

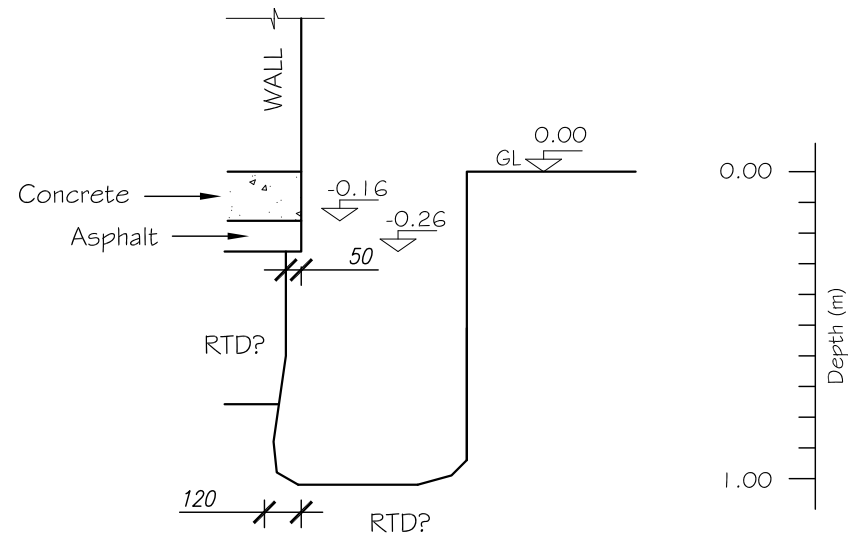
Drawn	Checked	Passed	Date
EV	OS	MD	February 15

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TP58-1 log.



PLAN TP58-1



SECTION A-A
TP58-1

No	Revision	Drawn	Checked	Passed	Date

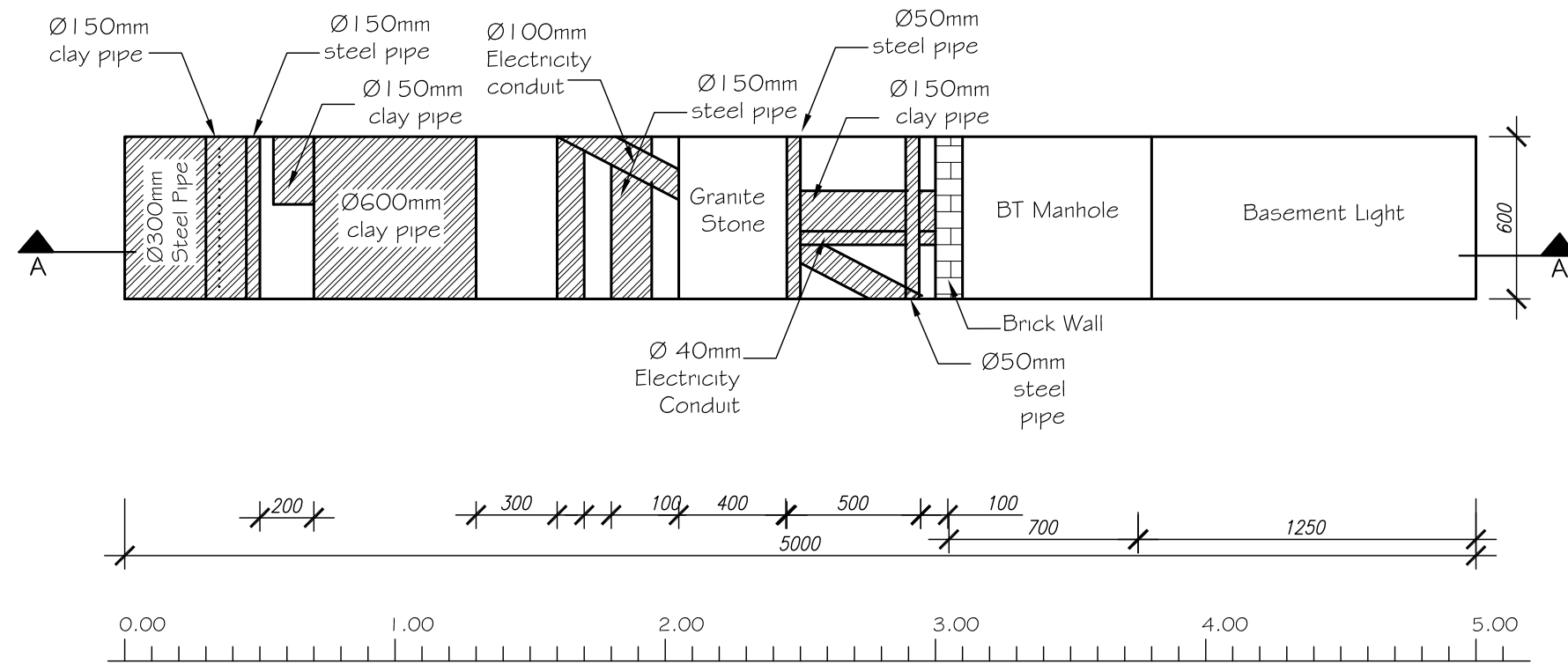
CONCEPT SITE INVESTIGATIONS
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 Warple Way Tel: 020 8811 2880
 London W3 0RF Fax: 020 8811 2881
 e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TP58-1 Plan & Section A-A				
Dwg. No:	142669/22				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

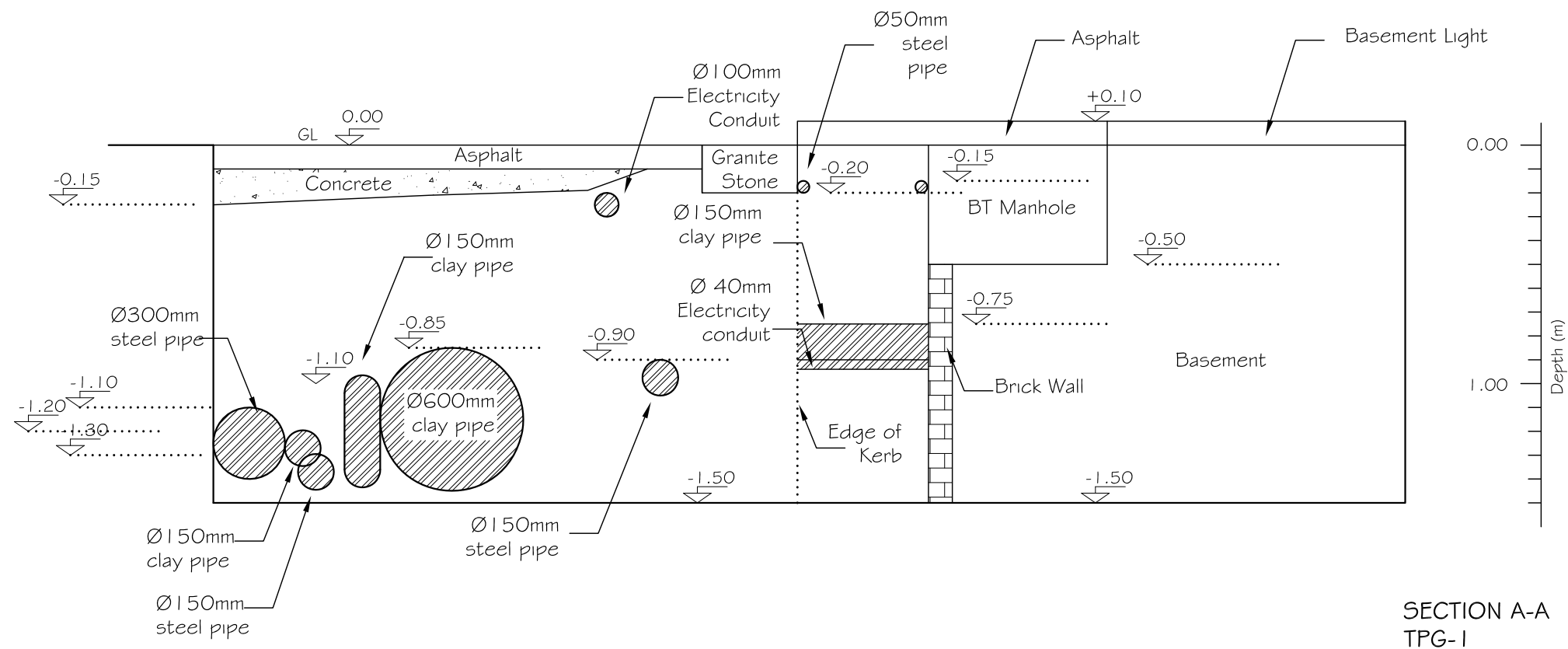
NOTES

1. This drawing should not be scaled, only use annotated dimensions.

2. Also refer to TPG-1 log.



PLAN TPG-1



SECTION A-A
TPG-1

No	Revision	Drawn	Checked	Passed	Date

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 Warple Way
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Tel: 020 8811 2880
 Fax: 020 8811 2881

www.conceptconsultants.co.uk

Client: Consolidated Developments
 Limited Partnership

Project: St Giles Circus

Title: TPG-1
 Plan & Section A-A

Dwg. No: 142669/23

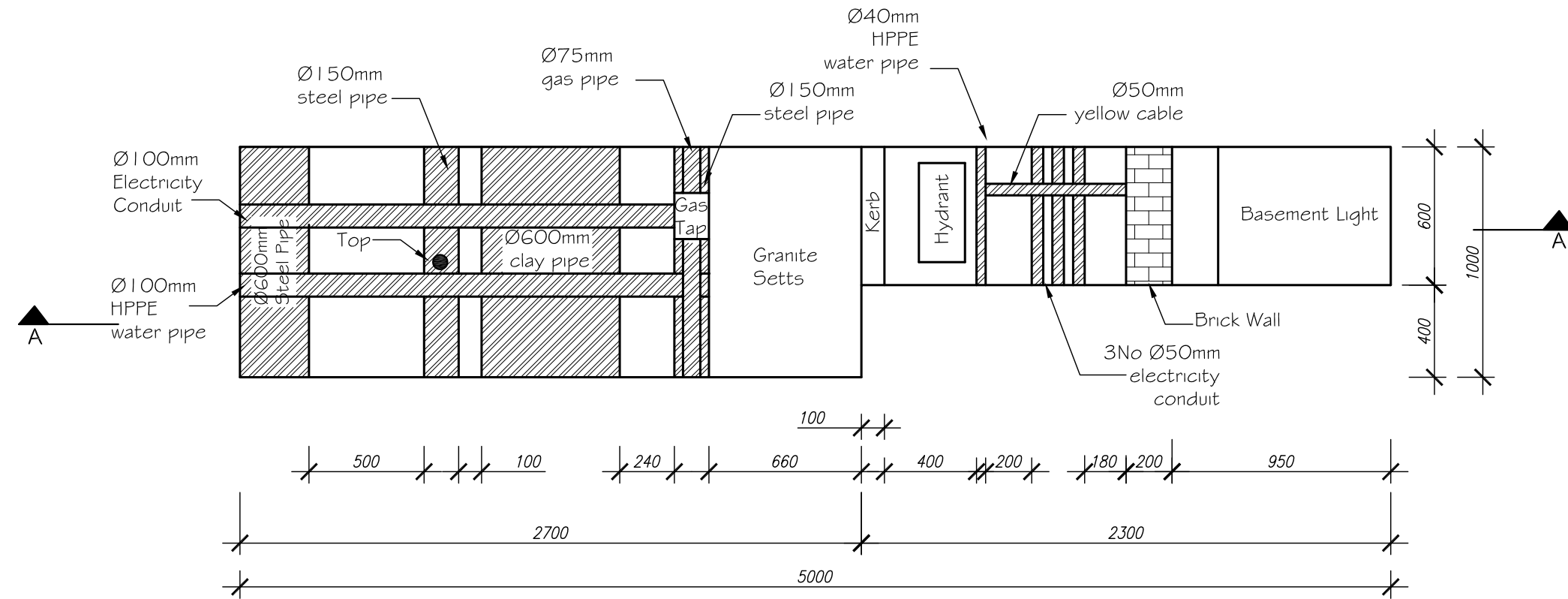
Status: Issue

Scale: 1:25

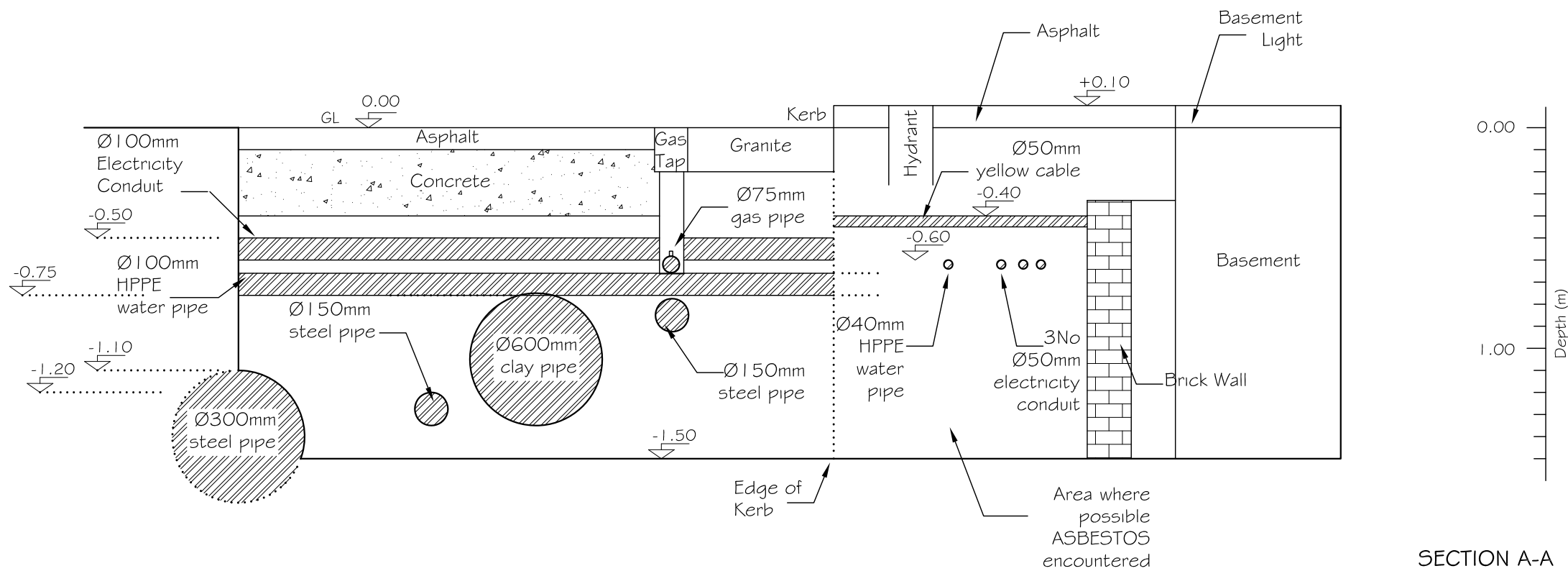
Drawn	Checked	Passed	Date
EV	OS	MD	February 15

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TPG-2 log.



PLAN TPG-2



SECTION A-A
TPG-2

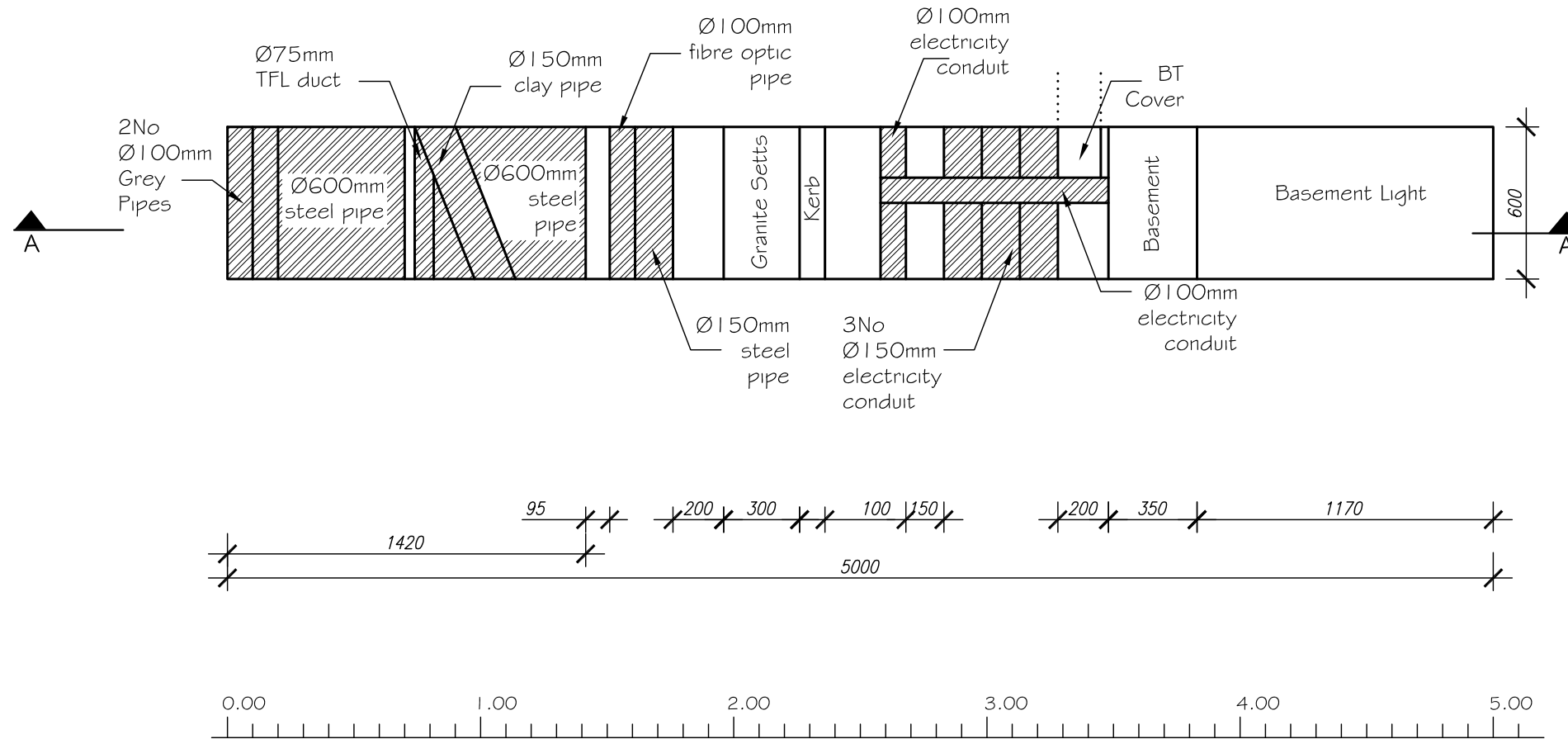
No	Revision	Drawn	Checked	Passed	Date

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 Unit 8, Warple Mews
 Warple Way
 London W3 0RF
 e-mail: concept@conceptconsultants.co.uk
 www.conceptconsultants.co.uk
 Tel: 020 8811 2880
 Fax: 020 8811 2881

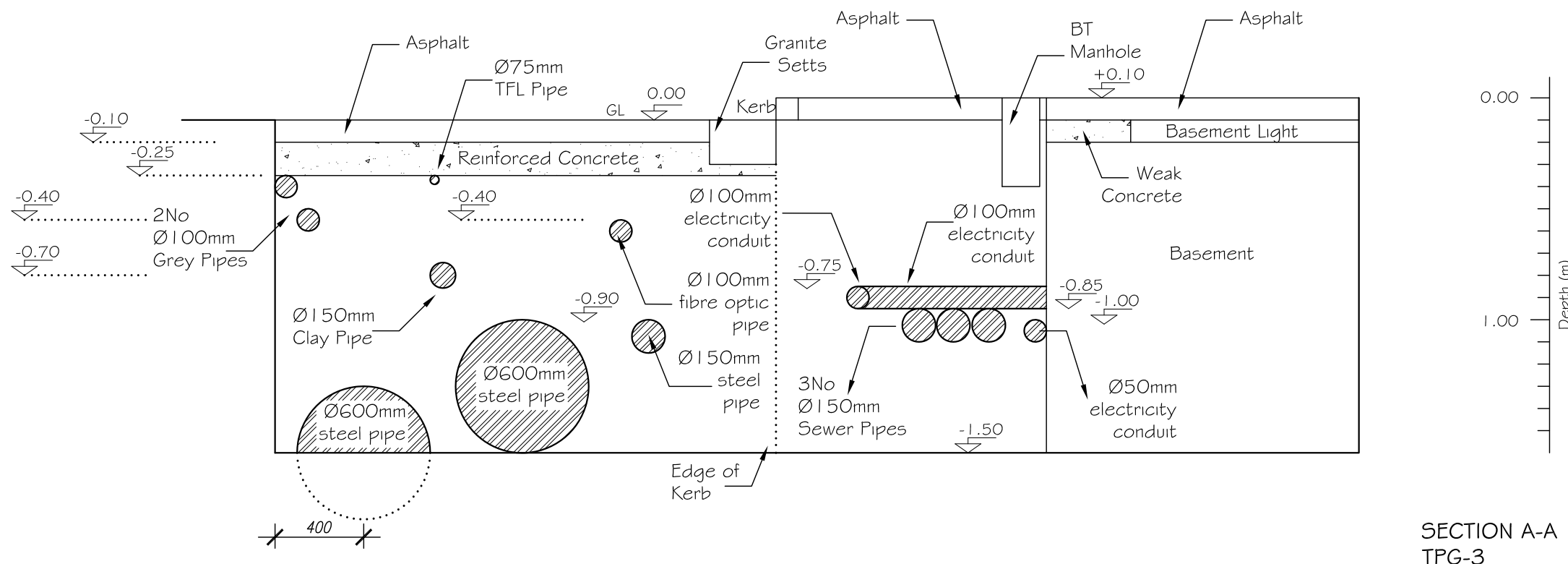
Client: Consolidated Developments Limited Partnership					
Project: St Giles Circus					
Title: TPG-2 Plan & Section A-A					
Dwg. No: 142669/24					
Status: Issue					
Scale: 1:25					
Drawn EV	Checked OS	Passed MD	Date February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TPG-3 log.



PLAN TPG-3



SECTION A-A
TPG-3

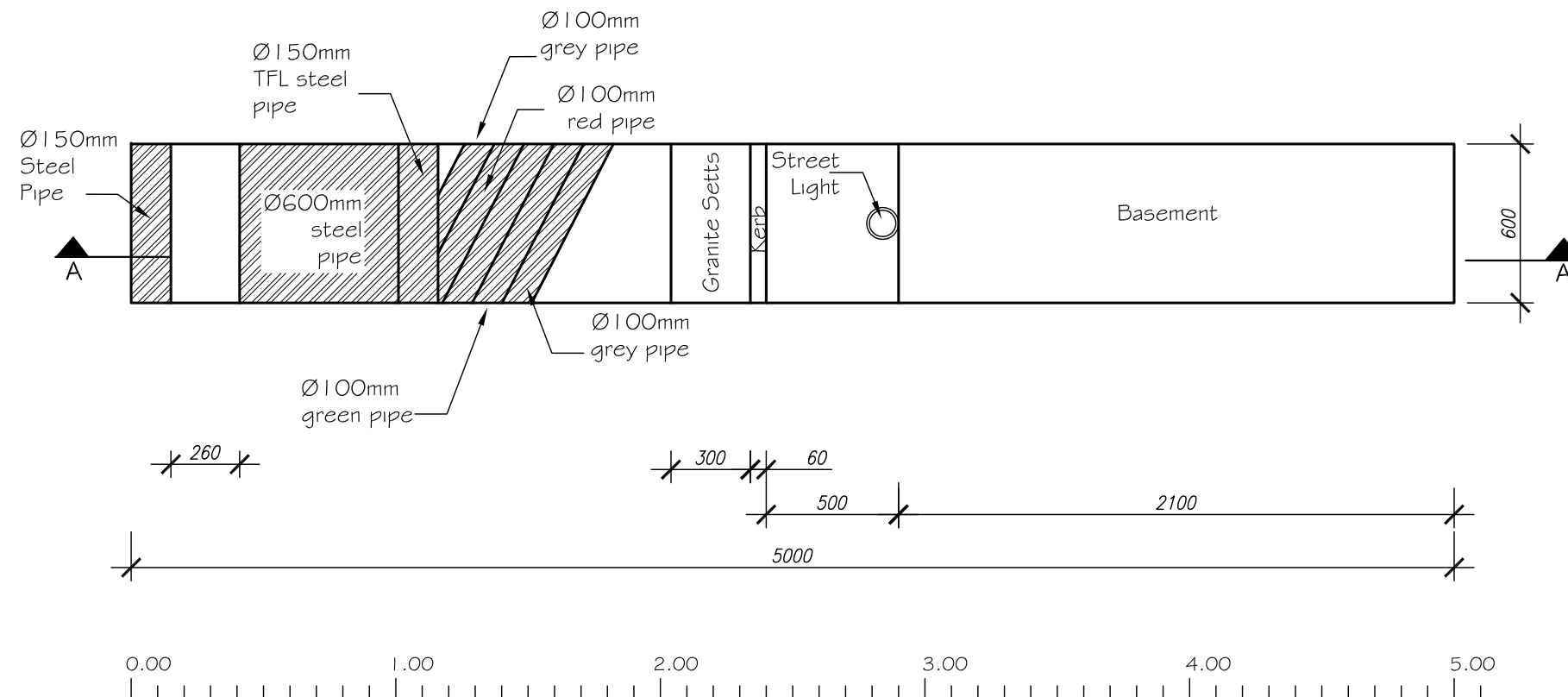
No	Revision	Drawn	Checked	Passed	Date

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 Warple Way
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 e-mail: concept@conceptconsultants.co.uk
 Tel: 020 8811 2880
 Fax: 020 8811 2881
 www.conceptconsultants.co.uk

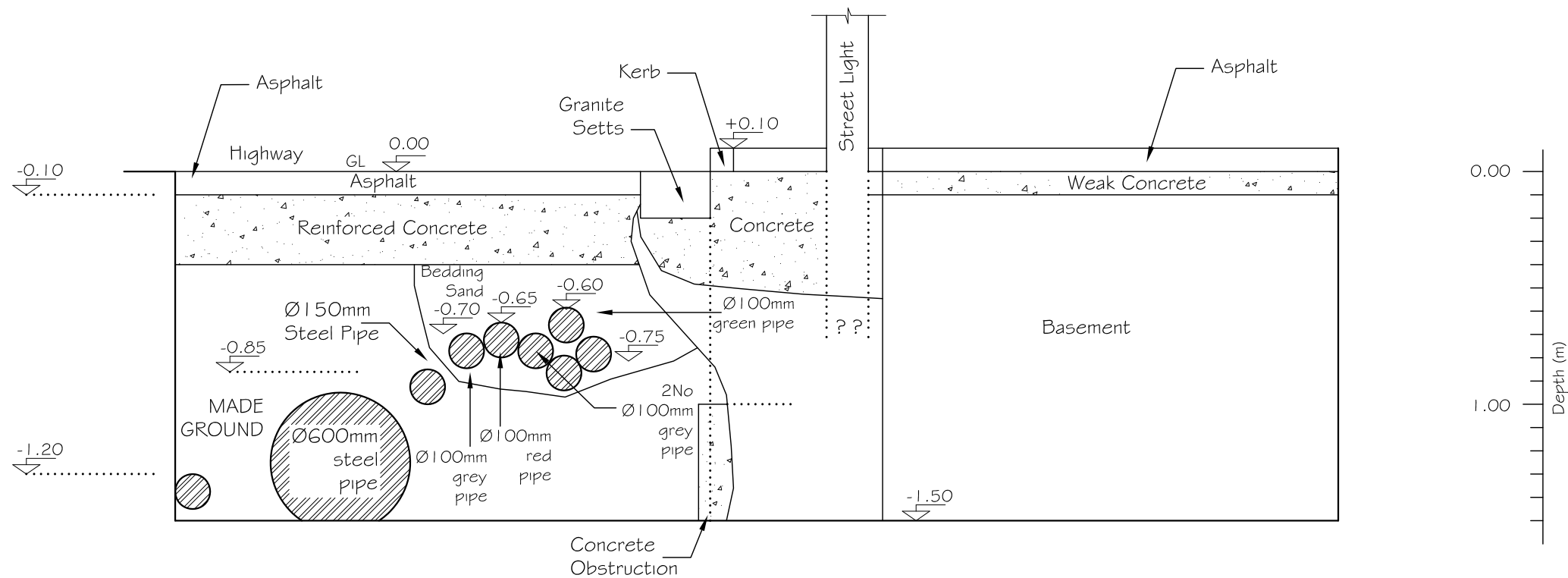
Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TPG-3 Plan & Section A-A				
Dwg. No:	142669/25				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TPG-4 log.



PLAN TPG-4



SECTION A-A
TPG-4

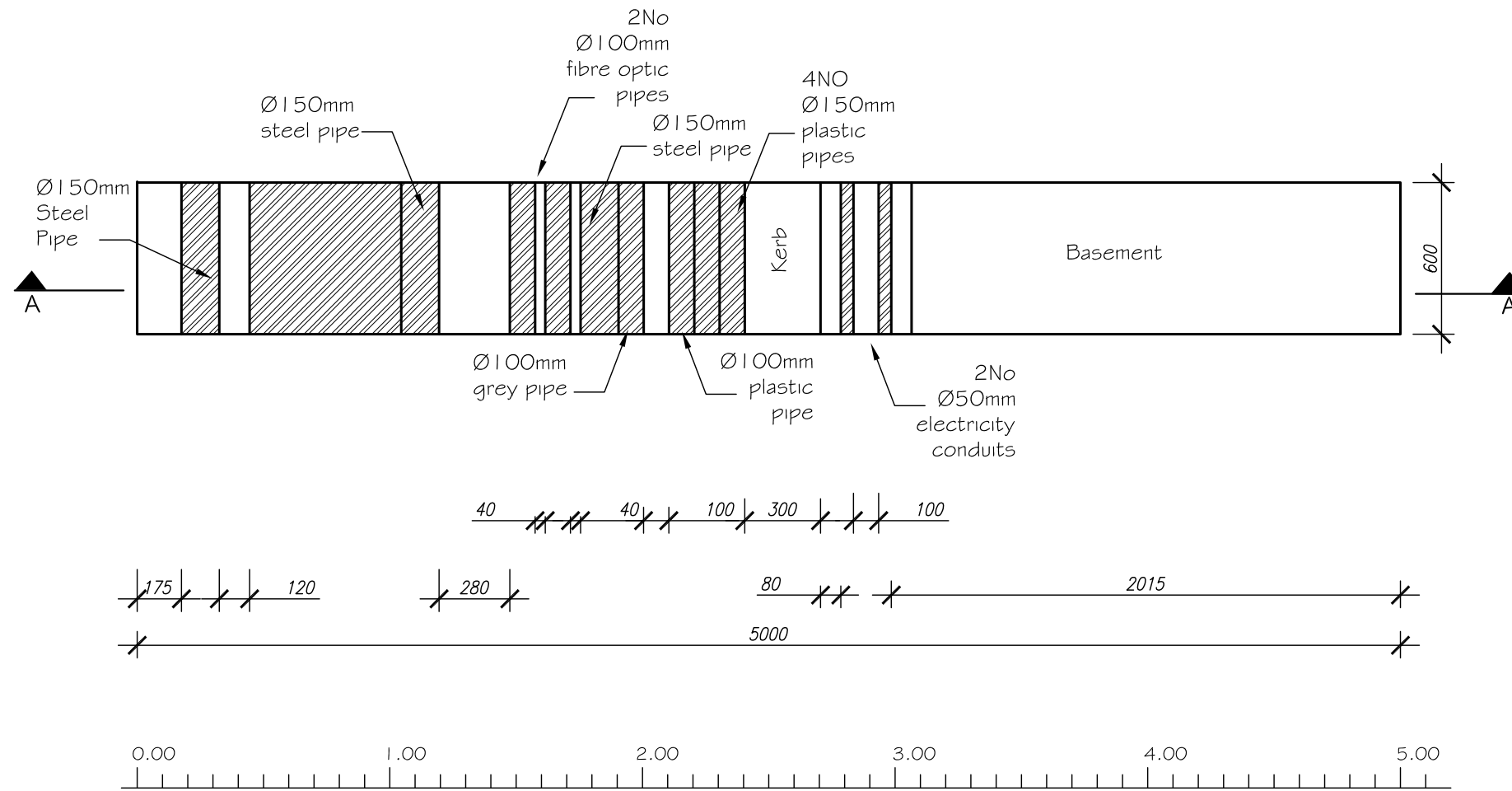
No	Revision	Drawn	Checked	Passed	Date

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 London W3 0RF Fax: 020 8811 2881
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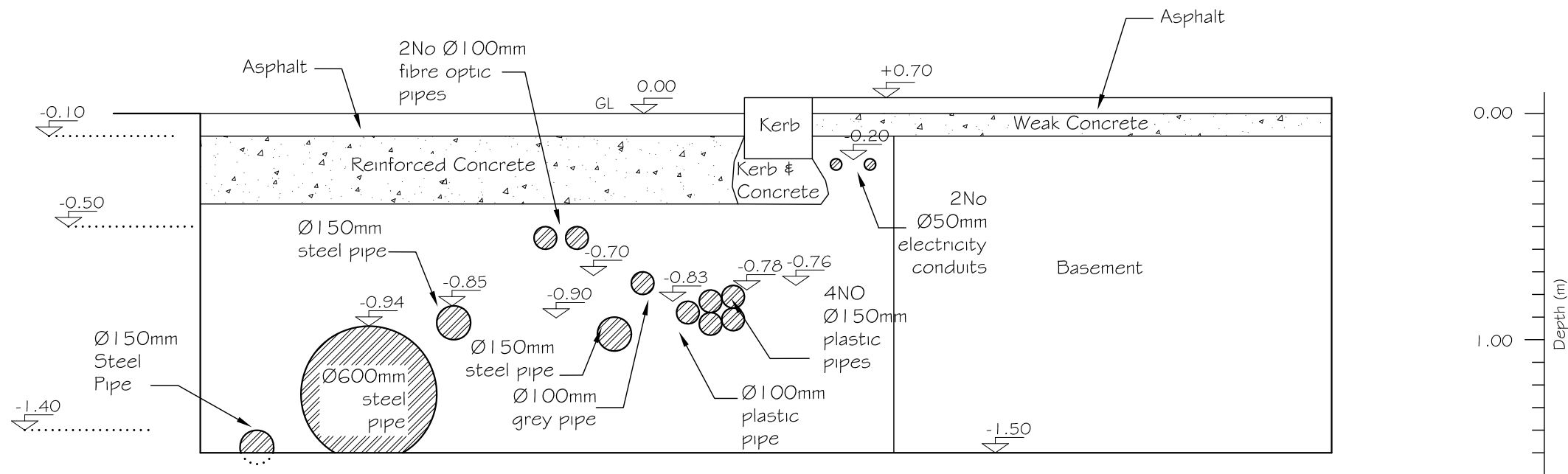
Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TPG-4 Plan & Section A-A				
Dwg. No:	142669/26				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TPG-6 log.



PLAN TPG-5



SECTION A-A
TPG-5

No	Revision	Drawn	Checked	Passed	Date

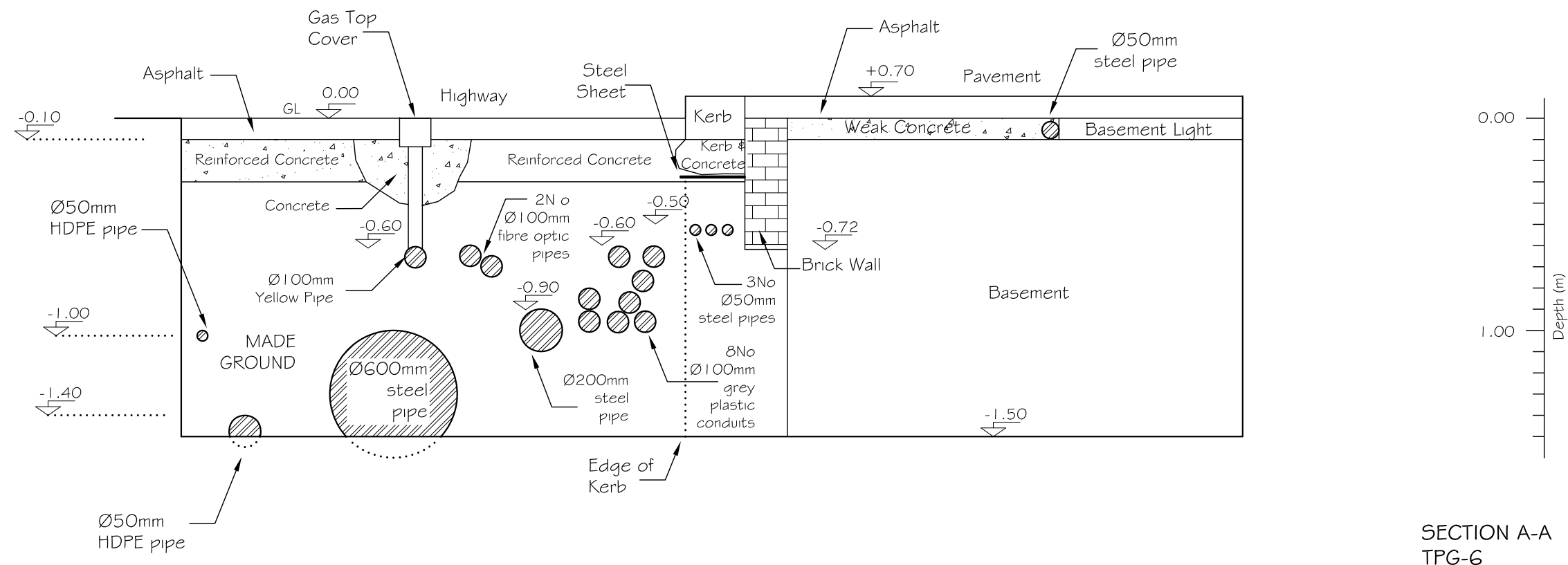
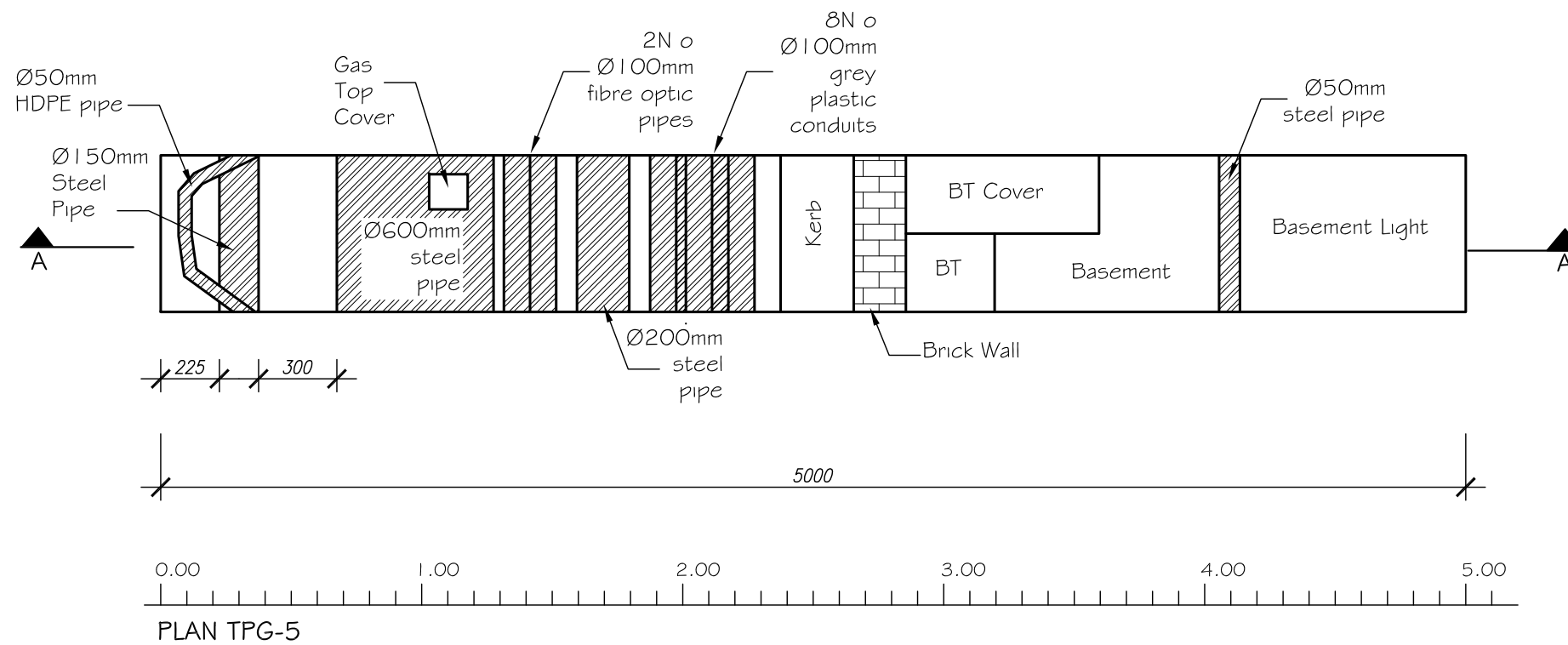
CONCEPT SITE INVESTIGATIONS
 Unit 8, Warple Mews
 Warple Way
 London W3 0RF
 e-mail: concept@conceptconsultants.co.uk
 Tel: 020 8811 2880
 Fax: 020 8811 2881
 www.conceptconsultants.co.uk

Client:	Consolidated Developments Limited Partnership				
Project:	St Giles Circus				
Title:	TPG-6 Plan & Section A-A				
Dwg. No:	142669/27				
Status:	Issue				
Scale:	1:25				
Drawn	Checked	Passed	Date		
EV	OS	MD	February 15		

NOTES

1. This drawing should not be scaled, only use annotated dimensions.

2. Also refer to TPG-6 log.



SECTION A-A
TPG-6

No	Revision	Drawn	Checked	Passed	Date

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Client: Consolidated Developments Limited Partnership			
Project: St Giles Circus			
Title: TPG-6 Plan & Section A-A			
Dwg. No: 142669/28			
Status: Issue			
Scale: 1:25			
Drawn EV	Checked OS	Passed MD	Date February 15

11. INSTRUMENTATION MONITORING RESULTS

Borehole	Depth of Installation (mbgl)	Date of Installation	Type	Top (mbgl)	Bottom (mbgl)	Date & Time	Water Level (mbgl)	Water Level (mOD)	Remarks
PB02	8.00	02/12/2014	SPGW	2.00	8.00	06/01/2015 13:15:00	5.30		
	8.00	02/12/2014	SPGW	2.00	8.00	22/01/2015 11:40:00	5.27		
	8.00	02/12/2014	SPGW	2.00	8.00	29/01/2015 12:50:00	5.29		
	8.00	02/12/2014	SPGW	2.00	8.00	05/02/2015 13:45:00	4.79		
	8.00	02/12/2014	SPGW	2.00	8.00	19/02/2015 08:55:00	5.46		
PB04	6.00	20/11/2014	SPG/GW	2.00	6.00	06/01/2015 14:55:00	3.90		
	6.00	20/11/2014	SPG/GW	2.00	6.00	22/01/2015 11:15:00	3.86		
	6.00	20/11/2014	SPG/GW	2.00	6.00	29/01/2015 11:44:00	3.86		
	6.00	20/11/2014	SPG/GW	2.00	6.00	05/02/2015 13:50:00	3.92		
	6.00	20/11/2014	SPG/GW	2.00	6.00	19/02/2015 09:00:00	3.91		
PB05	6.00	17/11/2014	SPG/GW	2.00	6.00	06/01/2015 14:30:00	4.35		
	6.00	17/11/2014	SPG/GW	2.00	6.00	22/01/2015 10:55:00	4.32		
	6.00	17/11/2014	SPG/GW	2.00	6.00	29/01/2015 04:33:00	4.33		
	6.00	17/11/2014	SPG/GW	2.00	6.00	05/02/2015 13:55:00	4.35		
	6.00	17/11/2014	SPG/GW	2.00	6.00	19/02/2015 09:15:00	4.42		

KEY

SPIE - Standpipe Piezometer
 SPGW - Groundwater Monitor Standpipe
 SPG/GW - Gas / Groundwater Monitor Standpipe

CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk

**GROUNDWATER MONITORING**

Project: St Giles Circus

Client: Consolidated Developments Limited

Job No: 14/2669

CONCEPT SITE INVESTIGATIONS

Groundwater Monitoring Results - Historical Boreholes

Borehole	Depth of Installation (mbgl)	Type	Date	Time	Water level (mbgl)
BH01	5.1	SPGW	06/01/2015	13:20	4.40
			22/01/2015	10:00	4.38
			29/01/2015	11:30	4.39
			05/02/2015	14:00	4.42
			19/02/2015	09:20	4.39
BH02	5.6	SPGW	06/01/2015	13:25	4.29
			22/01/2015	10:10	4.27
			29/01/2015	11:35	4.28
			05/02/2015	14:05	4.32
			19/02/2015	09:25	4.31
BH03	6.00	SPGW	06/01/2015	13:30	4.00
			22/01/2015		No Access
			29/01/2015		No Access
			05/02/2015	14:10	4.03
			19/02/2015	09:30	4.03

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	06/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB02	8.00		5.30	5	15:20:00	14.93	1.219	2.72	8.31	315.2	Very turbid / Dark brown
				10		14.93	1.221	2.44	8.45	309.0	Slightly turbid
				15		15.80	1.235	1.78	8.50	306.0	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	06/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB04	6.00		3.90	4	14:55:00	14.42	1.718	2.63	8.38	305.7	Very turbid / Dark grey
				8		14.31	1.725	1.63	8.46	300.2	Slightly turbid
				12		14.21	1.725	1.46	8.48	298.0	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	06/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB05	6.00		4.35	3	14:30:00	14.84	0.296	3.44	8.45	303.0	Very turbid / Dark grey
				5		14.69	0.291	2.90	8.52	300.0	Slightly turbid
				8		14.54	0.285	2.65	8.55	298.6	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	22/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB02	8.00		5.27	5	11:40:00	13.07	1.167	6.05	7.60	11.7	Very turbid / Dark brown
				10		12.23	1.134	3.85	7.62	10.9	Very turbid / Dark brown
				15		12.46	1.116	2.36	7.69	6.9	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	22/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB04	6.00		3.86	4	11:15:00	13.82	1.379	5.72	7.74	3.8	Very turbid / Dark brownish grey
				8		13.52	1.410	4.01	7.77	2.5	Very turbid / Dark brownish grey
				12		13.23	1.432	2.50	7.80	0.5	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	22/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB05	6.00		4.32	3	10:55:00	13.82	0.597	6.85	7.18	33.5	Very turbid / Dark brown
				5		13.63	0.599	4.56	7.43	20.3	Very turbid / Dark brown
				8		13.43	0.596	2.57	7.75	4.4	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	29/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB02	8.00		5.29	5	12:50:00	13.72	1.103	4.99	7.71	-18.0	Very turbid / Dark brown
				10		13.31	1.099	3.14	7.79	-21.8	Very turbid / Dark brown
				15		12.82	1.081	2.79	7.90	-27.6	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	29/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB04	6.00		3.86	4	11:44:00	11.87	1.139	4.74	7.72	-19.3	Very turbid / Dark brownish grey
				8		11.82	1.131	2.94	7.72	-20.2	Very turbid / Dark brownish grey
				12		11.78	1.127	2.15	7.71	-23.2	Slightly turbid

CONCEPT

GROUNDWATER - IN SITU ANALYSIS & SAMPLING

Site:	St Giles Circus
Job No.:	14/2669
Date:	29/01/2015
Technician:	RM
Sampling method:	<i>Impeller pump (purging) and disposable bailer sampling</i>

Borehole Detail				Sampling and Testing							
BH No.	Base of well (mbgl)	Top of slotted response zone (mbgl)	Depth to GW (mbgl)	Purge Volume (l)	Time	Temp (°C)	EC (ms/cm)	Do (mg/l)	pH	Redox Potential (mV)	Sample Detail (Colour/Odour/Turbidity)
PB05	6.00		4.33	3	11:35:00	13.85	0.550	6.23	7.02	18.7	Very turbid / Dark brown
				5		13.48	0.565	4.51	7.24	7.0	Very turbid / Dark brown
				8		12.73	0.558	3.78	7.58	-11.3	Slightly turbid

12. GEOTECHNICAL LABORATORY TEST RESULTS

CONCEPT SITE INVESTIGATIONS

Site Name:	St Giles Circus	Job No.:	14/2669
Client:	Consolidated Developments Limited	Date Reported:	19/01/2015

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	¹ Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
PB01	C	05	8.88	Firm, brownish grey slightly micaceous CLAY with white flecks	27					
PB01	D	06	10.00	Grey slightly micaceous slightly sandy CLAY with occasional pockets of light brown fine sand (<15mm), pockets of white silty fine sand (<25mm), fine and medium claystone fragments and rare shell fragments	29	92	68	23	45	
PB01	D	07	11.50	Grey slightly sandy CLAY	41	100	67	26	41	Sample damp
PB01	C	10	16.70	Stiff, extremely closely to very closely fissured grey slightly micaceous CLAY with rare bioturbation	28					
PB01	C	12	18.90	Stiff, brownish grey slightly micaceous CLAY with rare pockets of light and dark grey fine sand (<30mm), bioturbation and foraminifera	26					
PB01	C	13	20.20	Very stiff, grey slightly micaceous slightly sandy CLAY with occasional pockets of light and dark grey fine sand (<50mm) and rare bioturbation	24					
PB01	D	15	22.80	Grey slightly micaceous slightly sandy CLAY with occasional pockets of light brown fine sand (20mm), bioturbation and white flecks	23	100	72	24	49	
PB01	C	19	27.50	Stiff, grey slightly micaceous slightly sandy CLAY with occasional pockets of light and dark grey fine sand (<55mm), rare bioturbation and foraminifera	22					
PB01	C	20	29.90	Stiff, brown slightly mottled bluish grey CLAY with rare polished surfaces	20					

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Date - samples received: 26/11/2014	Checked by: KM	CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Date - samples tested: 15/12/2014	Date: 16/01/2015	
Approved Signatories: A G Bates - AGB (Quality Mngr) - K Mazerant - KM (Lab Mngr)		

CONCEPT SITE INVESTIGATIONS

Site Name:	St Giles Circus	Job No.:	14/2669
Client:	Consolidated Developments Limited	Date Reported:	19/01/2015

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	¹ Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
PB01	C	21	30.66	Stiff, brown mottled bluish grey CLAY with occasional polished surfaces	21					
PB01	C	24	33.10	Stiff, multi-coloured CLAY	19					
PB01	D	27	38.00	Dark grey slightly micaceous slightly sandy CLAY with occasional pockets of light grey silty fine sand (35mm), shell fragments, rare lignite fragments and a pyrite nodule (35x15mm)	22	97	55	23	33	
PB01	C	28	38.90	Very stiff, multi-coloured slightly sandy CLAY with rare pockets (<60mm) of red fine to coarse gravel sized hematite nodules	14					
PB01	C	29	40.65	Multi-coloured slightly sandy CLAY with occasional pockets of light grey silt	18	100	46	19	27	
PB01	D	30	41.45	Brown mottled bluish grey sandy CLAY	17	100	32	15	17	
PB01	D	32	44.10	Dark brown sandy CLAY with occasional pockets of light brown fine sand (<45mm)	14	100	57	16	41	
PB01	D	33	45.20	Multi-coloured sandy CLAY with occasional subangular to subrounded fine and medium flint GRAVEL	16	100	35	16	20	
PB01	C	34	45.50	Very stiff, multi-coloured very sandy CLAY with occasional pockets of white fine sand (<55mm) and frequent black flecks	17					
PB01	D	35	46.20	Grey slightly sandy CLAY with occasional partings of light grey fine sand (<35mm), pockets of dark greenish grey fine and medium sand (<30mm)	17	100	55	21	34	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Date - samples received: 26/11/2014	Checked by: KM	CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Date - samples tested: 08/01/2015	Date: 16/01/2015	
Approved Signatories: A G Bates - AGB (Quality Mngr) - K Mazerant - KM (Lab Mngr)		

CONCEPT SITE INVESTIGATIONS

Site Name:	St Giles Circus	Job No.:	14/2669
Client:	Consolidated Developments Limited	Date Reported:	19/01/2015

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	¹ Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
PB02	C	16	8.80	Brownish grey slightly micaceous CLAY with occasional pockets of dark grey fine sand and bioturbation	29					
PB02	C	18	11.95	Greyish brown slightly micaceous slightly sandy CLAY with occasional pockets of white flecks and rare bioturbation	27	100	70	23	47	
PB02	C	20	15.05	Greyish brown slightly micaceous CLAY with occasional pockets of dark grey fine sand, pockets of white silt and a pyrite nodule (20x10mm)	29					
PB02	C	22	17.40	Stiff, brownish grey slightly micaceous CLAY with occasional bioturbation and rare foraminifera	27					
PB02	C	24	21.05	Grey slightly micaceous slightly sandy CLAY with occasional pockets of light brown fine sand (<25mm) and bioturbation	24	100	70	23	47	
PB02	C	26	24.05	Stiff, grey slightly micaceous slightly sandy CLAY with frequent pockets of light and dark grey fine sand (<50mm), occasional foraminifera and bioturbation	20					
PB02	C	28	26.95	Grey slightly micaceous slightly sandy CLAY with occasional pockets of light brown and dark grey fine sand (<18mm), bioturbation	22	100	65	23	42	
PB02	C	31	28.50	Brownish grey slightly micaceous slightly sandy CLAY with occasional pockets of dark grey fine sand and bioturbation	20					
PB02	C	34	31.50	Very stiff, multi-coloured sandy CLAY	13					
PB02	C	37	33.00	Brown mottled bluish grey sandy CLAY	13					

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Date - samples received: 05/12/2014	Checked by: KM	CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Date - samples tested: 17/12/2014	Date: 16/01/2015	
Approved Signatories: A G Bates - AGB (Quality Mngr) - K Mazerant - KM (Lab Mngr)		

CONCEPT SITE INVESTIGATIONS

Site Name:	St Giles Circus	Job No.:	14/2669
Client:	Consolidated Developments Limited	Date Reported:	19/01/2015

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	1. Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
PB02	C	40	35.90	Brown mottled bluish grey slightly sandy CLAY with occasional pockets of light grey fine sand (<15mm)	16					
PB02	C	43	39.70	Multi-coloured silty CLAY	15					
PB02	C	47	45.30	Brown mottled grey slightly sandy CLAY with occasional pockets of dark greenish grey fine and medium sand (<25mm)	17					

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Date - samples received: 05/12/2014	Checked by: KM	CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Date - samples tested: 08/01/2015	Date: 16/01/2015	
Approved Signatories: A G Bates - AGB (Quality Mngr) - K Mazerant - KM (Lab Mngr)		

CONCEPT SITE INVESTIGATIONS

Site Name:	St Giles Circus	Job No.:	14/2669
Client:	Consolidated Developments Limited	Date Reported:	23/12/2014

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	1. Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
PB04	B	11	3.50	Brown silty very sandy angular to well rounded fine to coarse flint GRAVEL	8.7					
PB04	D	16	6.00	Greyish brown slightly micaceous slightly sandy slightly gravelly CLAY. Gravel is angular to rounded fine and medium flint	32					
PB04	D	20	9.00	Greyish brown slightly micaceous slightly sandy CLAY with occasional pockets of light brown and dark grey fine sand (<20mm) and white flecks	27					
PB04	D	24	12.00	Greyish brown slightly micaceous slightly sandy CLAY with occasional bioturbation	29	100	70	24	47	
PB04	D	28	15.00	Greyish brown slightly micaceous slightly sandy CLAY with rare pockets of dark grey fine sand (<15mm), occasional bioturbation and white flecks	28					
PB04	D	32	18.00	Greyish brown slightly micaceous slightly sandy CLAY with occasional pockets of light brown fine sand (<10mm) and white flecks	26	100	67	24	43	
PB04	D	36	21.00	Greyish brown slightly micaceous slightly sandy CLAY with occasional pockets of light and dark grey fine sand (<15mm), bioturbation and white flecks	24					
PB04	D	40	24.00	Greyish brown slightly micaceous slightly sandy CLAY with occasional pockets of light brown fine sand (<18mm) and foraminifera	24	100	64	22	42	
PB04	D	44	27.00	Greyish brown slightly micaceous CLAY with occasional pockets of light brown fine sand (<15mm), white flecks, bioturbation and a pyrite nodule (18x5mm)	28					
PB04	D	47	29.00	Greyish brown slightly micaceous slightly sandy CLAY with occasional bioturbation and white flecks	26					

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Date - samples received: 21/11/2014	Checked by: KM	
Date - samples tested: 17/12/2014	Date: 23/12/2014	
Approved Signatories: A G Bates - AGB (Quality Mngr) - K Mazerant - KM (Lab Mngr)		CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

CONCEPT SITE INVESTIGATIONS

Site Name:	St Giles Circus	Job No.:	14/2669
Client:	Consolidated Developments Limited	Date Reported:	23/12/2014

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	¹ Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
PB05	B	12	4.00	Brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint	17					
PB05	B	14	5.00	Brown very sandy angular to well rounded fine to coarse flint GRAVEL	7.5					
PB05	D	18	7.00	Grey slightly micaceous CLAY with occasional pockets of dark grey fine sand (<15mm), bioturbation and white flecks	30					
PB05	D	22	10.00	Grey slightly micaceous CLAY with occasional pockets of dark grey fine sand (<22mm)	28					
PB05	D	26	13.00	Grey slightly micaceous CLAY with occasional pockets of light brown fine sand (<16mm) and bioturbation	27					
PB05	D	30	16.00	Grey slightly micaceous CLAY with rare pockets of dark grey fine sand (<18mm) and occasional bioturbation	29	100	73	26	48	
PB05	D	34	19.00	Grey slightly micaceous CLAY	38					
PB05	D	38	22.00	Grey slightly micaceous slightly sandy CLAY with rare pockets of dark brown fine sand (<24mm) and bioturbation	25	100	77	24	52	
PB05	D	42	25.00	Grey slightly micaceous slightly sandy CLAY with occasional bioturbation and foraminifera	26					
PB05	D	46	28.00	Grey slightly micaceous CLAY with occasional pockets of light brown fine sand (<15mm), bioturbation and white flecks	27	100	74	25	49	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Date - samples received: 18/11/2014	Checked by: KM	CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Date - samples tested: 17/12/2014	Date: 23/12/2014	
Approved Signatories: A G Bates - AGB (Quality Mngr) - K Mazerant - KM (Lab Mngr)		



4503



CONCEPT SITE INVESTIGATIONS

47-49 Brunel Road, London, W3 7XR

Tel: 0208 740 1553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

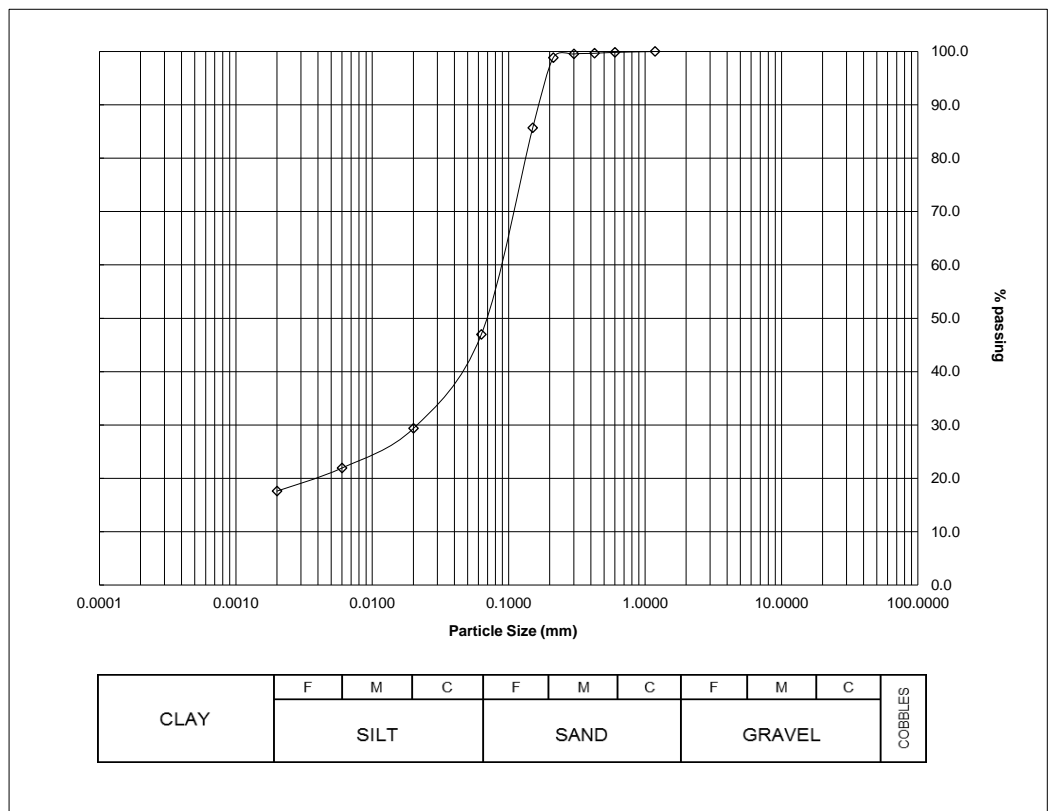
TEST REPORT

Site Name: St Giles Circus		Job Number: 14/2669	
Client: Consolidated Developments Limited		Date Reported: 16/01/2015	
Borehole No: PB01	Sample Type/No. D 22	Depth: 31.80 m	Method/type: Wet Sieving Pipette

Soil Description:

Bluish grey mottled brown and occasionally mottled yellowish brown sandy CLAY

BS Test Sieves	
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	99
0.150	86
0.063	47



Particle Proportions %	
Cobbles	
Gravel	
Sand	53.0
Silt and Clay	47.0

BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.
 BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.
 BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Date - samples received:	26/11/2014	Remarks:
Date - samples tested:	13/01/2015	
Approved Signatories:	A G Bates AGB (Quality Mngr) - K Mazerant KM (Lab Mngr)	
Checked by:	KM	Date: 16/01/2015



4503



CONCEPT SITE INVESTIGATIONS

47-49 Brunel Road, London, W3 7XR

Tel: 0208 740 1553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

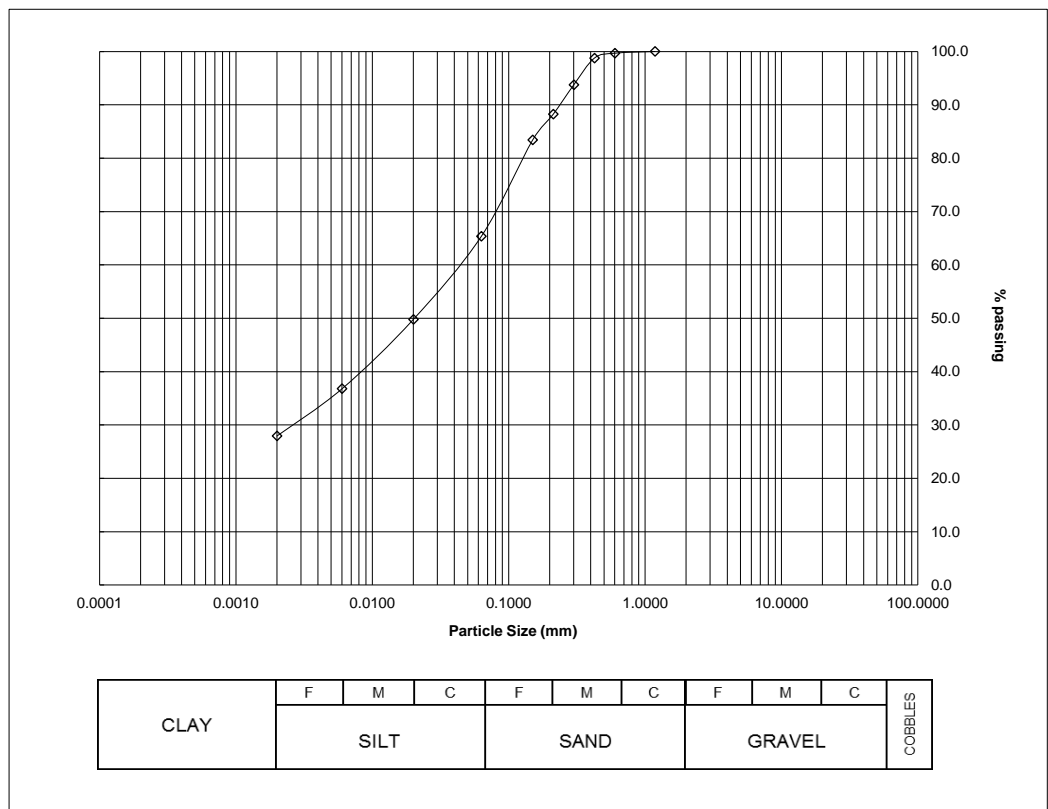
TEST REPORT

Site Name: St Giles Circus		Job Number: 14/2669	
Client: Consolidated Developments Limited		Date Reported: 16/01/2015	
Borehole No: PB01	Sample Type/No. D 36	Depth: 48.00 m	Method/type: Wet Sieving Pipette

Soil Description:

Grey slightly sandy silty CLAY with occasional partings of light grey fine sand (<38mm), pockets of dark greenish grey fine and medium sand (<25mm)

BS Test Sieves	
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	99
0.300	94
0.212	88
0.150	83
0.063	65



Particle Proportions %	
Cobbles	
Gravel	
Sand	34.7
Silt and Clay	65.3

CLAY	F	M	C	F	M	C	F	M	C	COBBLES
	SILT			SAND			GRAVEL			

BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.
 BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.
 BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Date - samples received:	26/11/2014	Remarks:
Date - samples tested:	13/01/2015	
Approved Signatories:	A G Bates AGB (Quality Mngr) - K Mazerant KM (Lab Mngr)	
Checked by:	KM	Date: 16/01/2015



4503



CONCEPT SITE INVESTIGATIONS

47-49 Brunel Road, London, W3 7XR

Tel: 0208 740 1553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

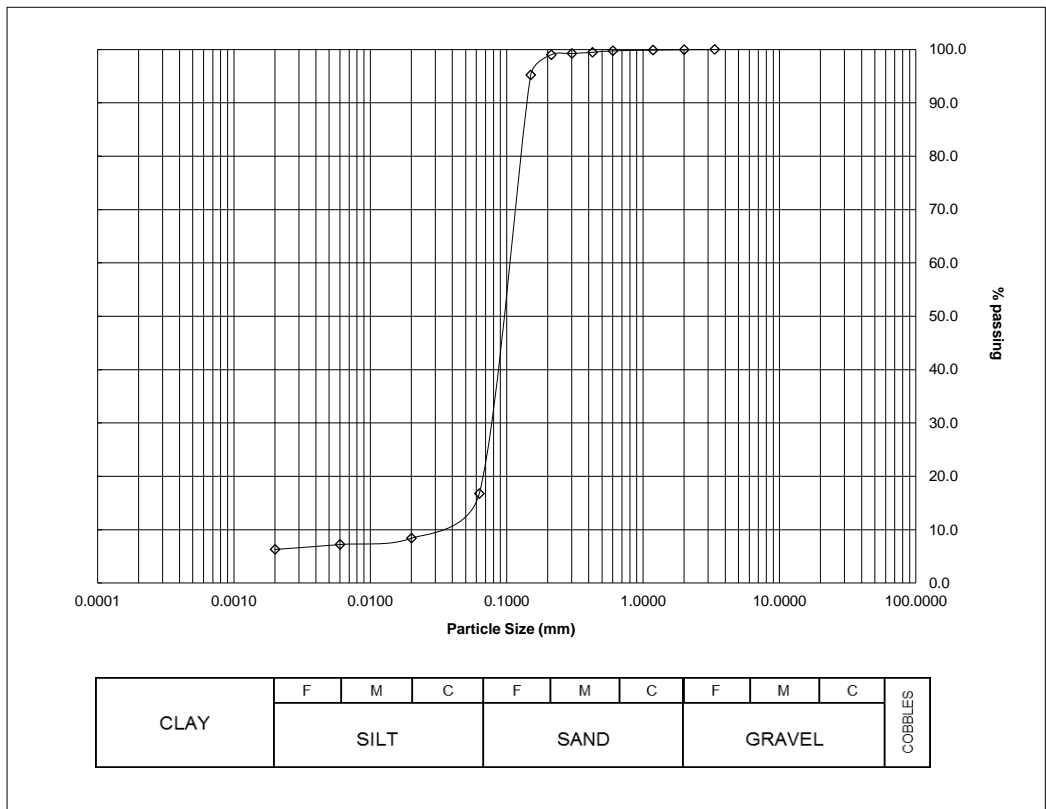
TEST REPORT

Site Name: St Giles Circus		Job Number: 14/2669	
Client: Consolidated Developments Limited		Date Reported: 16/01/2015	
Borehole No: PB01	Sample Type/No.: D 38	Depth: 50.50 m	Method/type: Wet Sieving Pipette

Soil Description:

Grey clayey fine SAND

BS Test Sieves	
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	99
0.300	99
0.212	99
0.150	95
0.063	17



Particle Proportions %	
Cobbles	
Gravel	0.1
Sand	83.2
Silt and Clay	16.8

BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.
 BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.
 BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Date - samples received:	26/11/2014	Remarks:
Date - samples tested:	13/01/2015	
Approved Signatories:	A G Bates AGB (Quality Mngr) - K Mazerant KM (Lab Mngr)	
Checked by:	KM	Date: 16/01/2015



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PARTICLE SIZE DISTRIBUTION

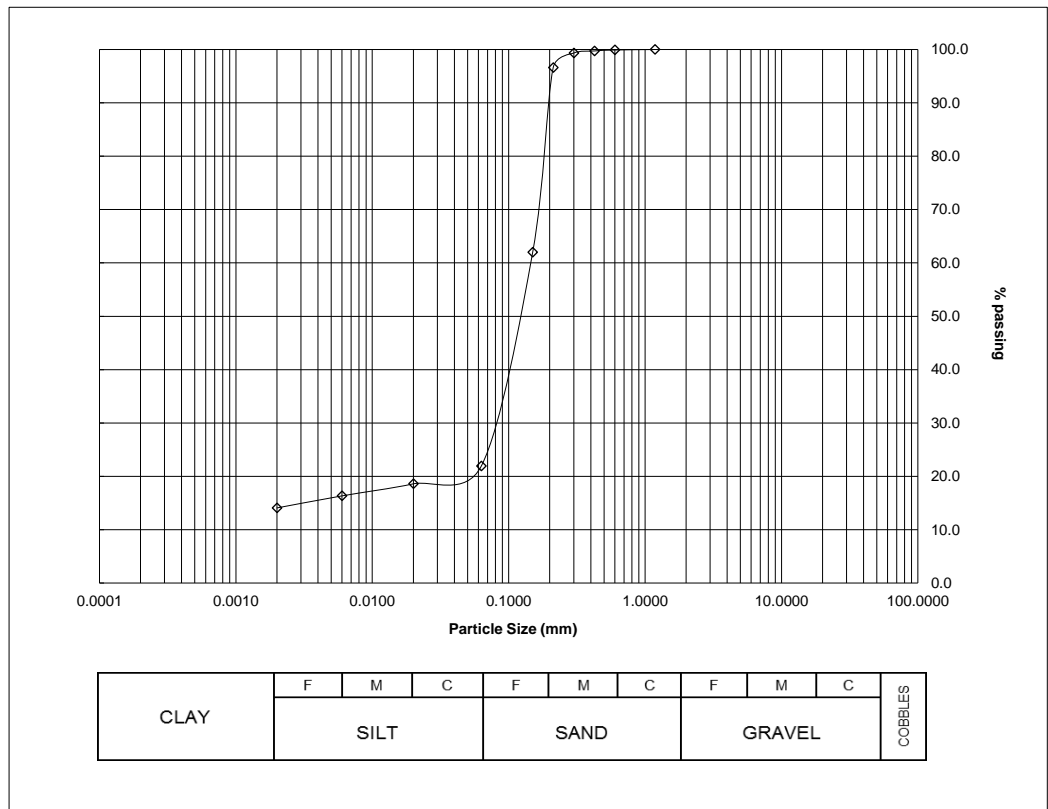
TEST REPORT

Site Name: St Giles Circus		Job Number: 14/2669	
Client: Consolidated Developments Limited		Date Reported: 19/01/2015	
Borehole No: PB02	Sample Type/No. D 36	Depth: 32.60 m	Method/type: Wet Sieving Pipette

Soil Description:

Brown mottled bluish grey clayey fine SAND

BS Test Sieves	
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	99
0.212	97
0.150	62
0.063	22



Particle Proportions %	
Cobbles	
Gravel	
Sand	78.1
Silt and Clay	21.9

BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.
 BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.
 BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Date - samples received:	05/12/2014	Remarks:
Date - samples tested:	13/01/2015	
Approved Signatories:	A G Bates AGB (Quality Mngr) - K Mazerant KM (Lab Mngr)	
Checked by:	KM	Date: 16/01/2015



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 Tel: 0208 740 1553
 Email: lab@conceptconsultants.co.uk

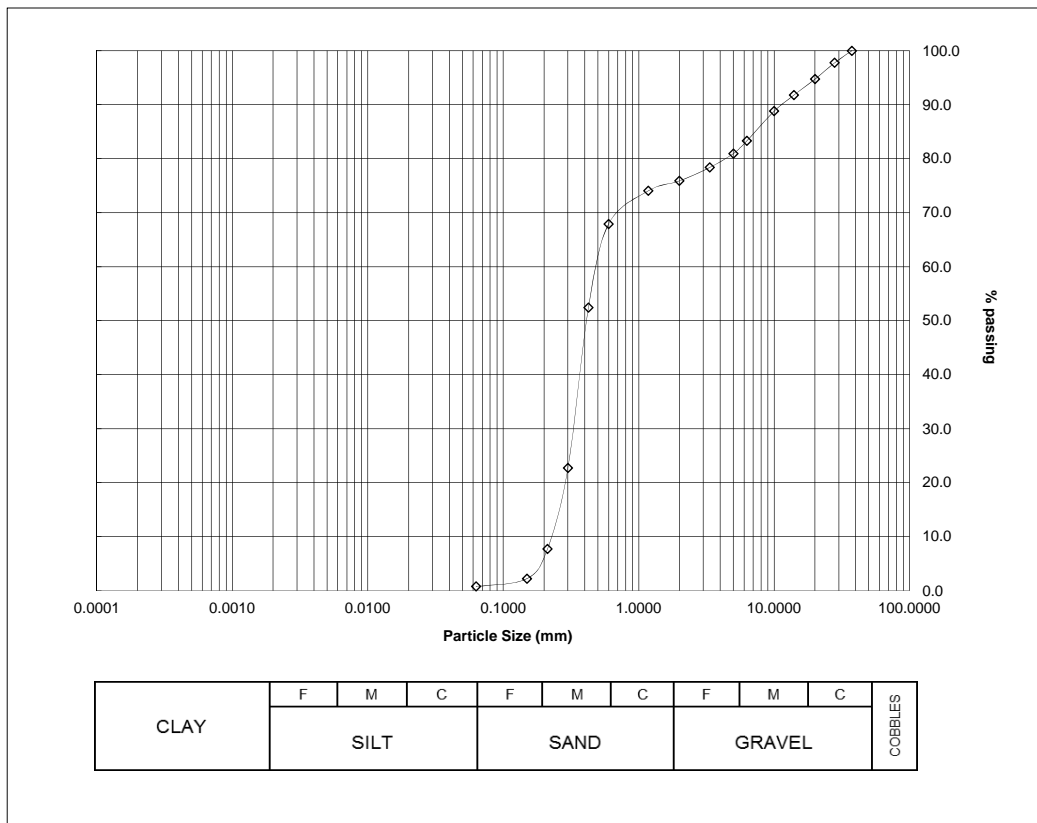
PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name: St Giles Circus		Job Number: 14/2669	
Client: Consolidated Developments Limited		Date Reported: 23/12/2014	
Borehole No: PB04	Sample Type/No. B 13	Depth: 4.00 m	Method/type: Wet Sieving

Soil Description:
 Brown very gravelly fine to coarse SAND. Gravel is angular to well rounded fine to coarse flint

BS Test Sieves	
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	98
20.000	95
14.000	92
10.000	89
6.300	83
5.000	81
3.350	78
2.000	76
1.180	74
0.600	68
0.425	52
0.300	23
0.212	8
0.150	2
0.063	1



Particle Proportions %	
Cobbles	
Gravel	24.1
Sand	75.1
Silt and Clay	0.8

BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.
 BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.
 BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Date - samples received:	21/11/2014	Remarks:
Date - samples tested:	19/12/2014	
Approved Signatories:	A G Bates AGB (Quality Mngr) - K Mazerant KM (Lab Mngr)	
Checked by:	KM	Date: 23/12/2014



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47-49 Brunel Road, London, W3 7XR
 Tel: 0208 740 1553
 Email: lab@conceptconsultants.co.uk

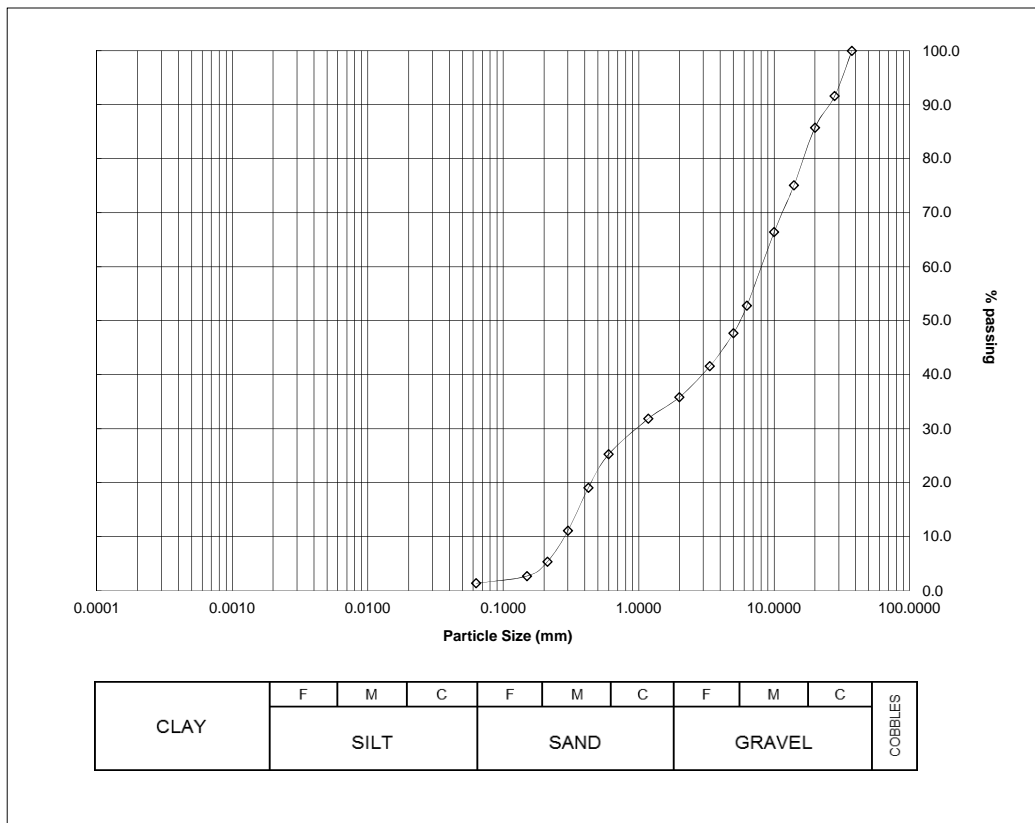
PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name: St Giles Circus		Job Number: 14/2669	
Client: Consolidated Developments Limited		Date Reported: 23/12/2014	
Borehole No: PB05	Sample Type/No. B 10	Depth: 2.70 m	Method/type: Wet Sieving

Soil Description:
 Brown very sandy angular to well rounded fine to coarse flint GRAVEL with rare fine gravel sized brick fragments

BS Test Sieves	
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	92
20.000	86
14.000	75
10.000	66
6.300	53
5.000	48
3.350	42
2.000	36
1.180	32
0.600	25
0.425	19
0.300	11
0.212	5
0.150	3
0.063	1



Particle Proportions %	
Cobbles	
Gravel	64.2
Sand	34.5
Silt and Clay	1.4

BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.
 BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.
 BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Date - samples received:	18/11/2014	Remarks:
Date - samples tested:	19/12/2014	
Approved Signatories:	A G Bates AGB (Quality Mngr) - K Mazerant KM (Lab Mngr)	
Checked by:	KM	Date: 23/12/2014



Kasia Mazerant
Concept Site Investigations
Unit 8
Warple Mews
Warple Way
London
W3 0RF

t: 020 88112880

e: kasia@conceptconsultants.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 14-64714

Project / Site name:	St Giles Circus	Samples received on:	15/12/2014
Your job number:	14-2669	Samples instructed on:	16/12/2014
Your order number:	L0944	Analysis completed by:	29/12/2014
Report Issue Number:	1	Report issued on:	29/12/2014
Samples Analysed:	11 soil samples		

Signed: CC Stone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: EM

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Samples were received with no indication of date sampled. The recommended holding time prior to analysis may have been exceeded. Results may not be valid should be interpreted with care.



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Environmental Science

Analytical Report Number: 14-64714

Project / Site name: St Giles Circus

Your Order No: L0944

Lab Sample Number	402375	402376	402377	402378	402379			
Sample Reference	PB01	PB01	PB01	PB01	PB01			
Sample Number	D07	D15	D27	D30	D33			
Depth (m)	11.50	22.80	38.00	41.45	45.20			
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	24	15	13	10	12
Total mass of sample received	kg	0.001	NONE	0.46	0.65	0.57	0.52	0.48

General Inorganics

	pH Units	N/A	MCERTS	8.6	8.6	9.0	9.2	9.3
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	930	1100	3100	300	< 50
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.0	0.53	2.5	0.058	0.048
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	1000	530	2500	58	48
Water Soluble Sulphate (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.51	0.27	1.3	0.029	0.024
Elemental Sulphur	mg/kg	20	NONE	< 20	< 20	21	< 20	< 20



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Environmental Science

Analytical Report Number: 14-64714

Project / Site name: St Giles Circus

Your Order No: L0944

Lab Sample Number	402380	402381	402382	402383	402384			
Sample Reference	PB04	PB04	PB04	PB05	PB05			
Sample Number	D27	D35	D43	D33	D37			
Depth (m)	14.00-14.45	20.00-20.45	26.00-26.45	18.00-18.45	21.00-21.45			
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	17	16	15	16	15
Total mass of sample received	kg	0.001	NONE	0.29	2.0	0.31	0.31	0.30

General Inorganics

	pH Units	N/A	MCERTS	8.4	8.5	8.9	8.7	8.5
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1300	3500	1200	1200	2800
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.1	2.9	1.1	1.2	2.8
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	1100	2900	1100	1200	2800
Water Soluble Sulphate (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.55	1.5	0.57	0.59	1.4
Elemental Sulphur	mg/kg	20	NONE	< 20	< 20	< 20	< 20	29



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Environmental Science

Analytical Report Number: 14-64714
Project / Site name: St Giles Circus
Your Order No: L0944

Lab Sample Number				402385				
Sample Reference				PB05				
Sample Number				D40				
Depth (m)				23.50				
Date Sampled				Deviating				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	13				
Total mass of sample received	kg	0.001	NONE	0.73				

General Inorganics

pH	pH Units	N/A	MCERTS	8.6				
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	1600				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.5				
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	1500				
Water Soluble Sulphate (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.77				
Elemental Sulphur	mg/kg	20	NONE	< 20				



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Environmental Science

Analytical Report Number : 14-64714**Project / Site name: St Giles Circus**

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
402375	PB01	D07	11.50	Light grey clay.
402376	PB01	D15	22.80	Light grey clay.
402377	PB01	D27	38.00	Light grey clay.
402378	PB01	D30	41.45	Light brown sandy clay.
402379	PB01	D33	45.20	Light brown clay and sand.
402380	PB04	D27	14.00-14.45	Light grey clay.
402381	PB04	D35	20.00-20.45	Light grey clay.
402382	PB04	D43	26.00-26.45	Light grey clay.
402383	PB05	D33	18.00-18.45	Light grey clay.
402384	PB05	D37	21.00-21.45	Light grey clay.
402385	PB05	D40	23.50	Light grey clay.



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Environmental Science

Analytical Report Number : 14-64714

Project / Site name: St Giles Circus

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in dichloromethane followed by HPLC.	In-house method based on Secondsite Property Holdings Guidance for Assessing and Managing Potential	L021-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by extraction with water followed by ICP-OES. Results reported corrected for extraction ratio (soil equivalent) as g/l and mg/kg; and upon the 2:1	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.



Kasia Mazerant
Concept Site Investigations
Unit 8
Warple Mews
Warple Way
London
W3 0RF

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 020 88112880

e: kasia@conceptconsultants.co.uk

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 14-64970

Project / Site name:	St Giles Circus	Samples received on:	22/12/2014
Your job number:	14-2669	Samples instructed on:	22/12/2014
Your order number:	L0945	Analysis completed by:	05/01/2015
Report Issue Number:	1	Report issued on:	05/01/2015
Samples Analysed:	5 soil samples		

Signed:  _____

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:  _____

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Environmental Science

Analytical Report Number: 14-64970

Project / Site name: St Giles Circus

Your Order No: L0945

Lab Sample Number	404067	404068	404069	404070	404071			
Sample Reference	PB02	PB02	PB02	PB02	PB02			
Sample Number	C 16	C 20	C 26	C 31	C 37			
Depth (m)	8.80-9.10	15.05-15.35	24.05-24.35	28.50-28.80	33.00-33.30			
Date Sampled	14/12/2014	14/12/2014	14/12/2014	14/12/2014	14/12/2014			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	16	15	9.8	12	6.2
Total mass of sample received	kg	0.001	NONE	1.0	1.3	0.83	1.4	1.2

General Inorganics

	pH Units	N/A	MCERTS	10.4	9.7	9.6	9.5	9.9
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	740	1200	1400	1700	120
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.62	0.73	1.1	1.0	0.027
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	620	730	1100	1000	27
Water Soluble Sulphate (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.31	0.36	0.53	0.52	0.014
Water Soluble Chloride (2:1)	mg/kg	5	MCERTS	440	150	250	180	20



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Environmental Science

Analytical Report Number : 14-64970

Project / Site name: St Giles Circus

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
404067	PB02	C 16	8.80-9.10	Grey clay.
404068	PB02	C 20	15.05-15.35	Grey clay.
404069	PB02	C 26	24.05-24.35	Grey clay.
404070	PB02	C 31	28.50-28.80	Grey clay.
404071	PB02	C 37	33.00-33.30	Light brown clay.



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Environmental Science

Analytical Report Number : 14-64970

Project / Site name: St Giles Circus

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride, water soluble, in soil	Determination of chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L082-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Stones not passing through a 10 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by extraction with water followed by ICP-OES. Results reported corrected for extraction ratio (soil equivalent) as g/l and mg/kg; and upon the 2:1 leachate (g/l)	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

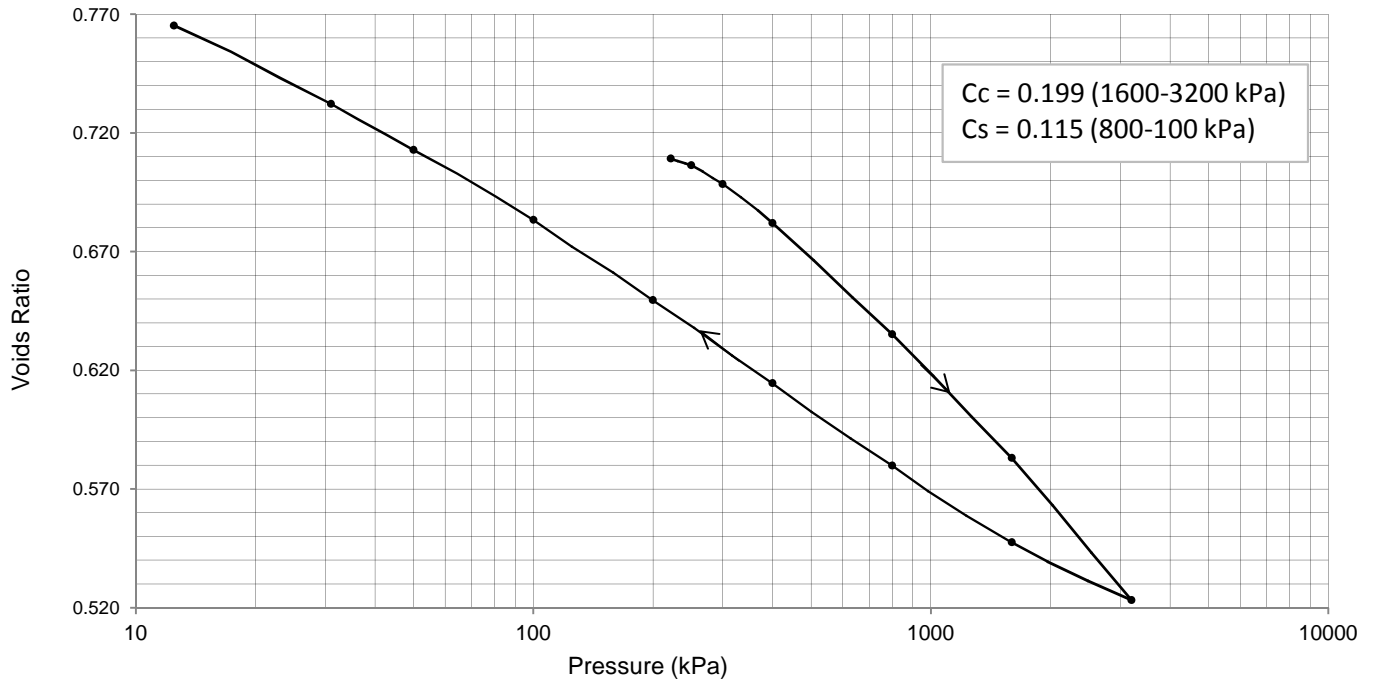
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Determination of One Dimensional Consolidation Properties of Soil

Borehole No.: PB01
 Sample Ref.: C08
 Depth (m): 13.57-13.87
 Depth within original: 13.62
 Orientation within original: Vertical
 Specimen preparation: Undisturbed

Description:

 Stiff fissured grey CLAY



Initial Conditions:

Height	(mm)	17.0	Moisture Content	(%)	28
Diameter	(mm)	75.0	Voids Ratio		0.733
Area	(mm ²)	4417.9	Bulk Density	(Mg/m ³)	1.99
Volume	(cm ³)	75.2	Dry Density	(Mg/m ³)	1.56
Laboratory Temperature	(°C)	20	Particle density	(Mg/m ³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m ² /MN)	c_v (m ² /year)	Time Fitting Method	Void Ratio
0 - 222	-	Swelling Pressure	-	0.709
222 - 250	0.059	1.6	t90	0.706
250 - 300	0.092	0.61	t50	0.698
300 - 400	0.097	0.32	t50	0.682
400 - 800	0.070	0.36	t50	0.635
800 - 1600	0.040	0.40	t50	0.583
1600 - 3200	0.024	0.39	t50	0.523
3200 - 1600	0.0100	0.46 (Sv)	t50	0.547
1600 - 800	0.026	0.24 (Sv)	t50	0.580
800 - 400	0.055	0.14 (Sv)	t50	0.614
400 - 200	0.11	0.10 (Sv)	t50	0.649
200 - 100	0.21	0.082 (Sv)	t50	0.683
100 - 50	0.35	0.060 (Sv)	t50	0.713
50 - 31	0.60	0.036 (Sv)	t50	0.732
31 - 12.5	1.0	0.029 (Sv)	t50	0.765

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 03/03/2015

Project Number:

GEO / 22150

Project Name:

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GEOLABS

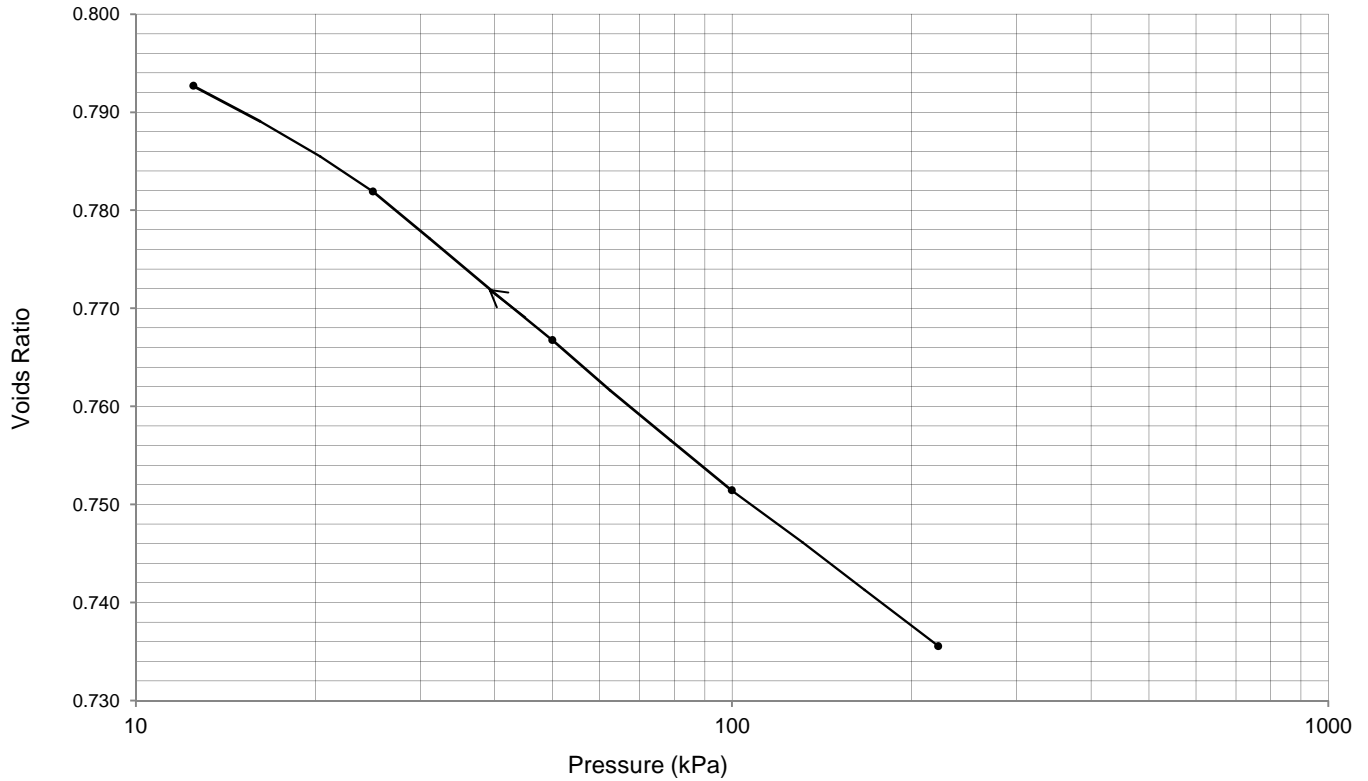


Determination of Swelling Characteristics

Borehole No.: PB01
 Sample Ref.: C08
 Depth (m): 13.57-13.87
 Depth within original: 13.59
 Orientation within original: Vertical
 Specimen preparation: Undisturbed

Description:

 Stiff fissured grey CLAY



Initial Conditions:

Height	(mm)	17.0	Moisture Content	(%)	27
Diameter	(mm)	75.0	Voids Ratio		0.706
Area	(mm ²)	4413.2	Bulk Density	(Mg/m ³)	2.02
Volume	(cm ³)	75.1	Dry Density	(Mg/m ³)	1.58
Laboratory Temperature	(°C)	20	Particle density	(Mg/m ³)	2.7 (Assumed)

Pressure Range (kPa)	m _v (m ² /MN)	c _v (m ² /year)	Time Fitting Method	Void Ratio
0 - 228	-	Swelling Pressure	-	0.690
228 - 103	0.073	0.24 (Sv)	t50	0.706
103 - 51	0.17	0.11 (Sv)	t50	0.721
51 - 26	0.34	0.061 (Sv)	t50	0.735
26 - 13	0.47	0.052 (Sv)	t50	0.746

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