Unable to detect 100 DI gas main. Position taken from statutory records.

Detected metallic feature assumed to be 100 DI gas main. Identification taken from statutory records.

Unable to detect electricity cables. Position taken from statutory records.

Manhole chamber filled with silt. Unable to determine service.

Unable to detect further due to loss of signal.

Manhole cover appears to be damaged and chamber filled with debris.

Blocked pipe.

Steel reinforcement at 0.10m within the concrete has caused a degradation of the radar and radio frequency signals. Possible area of previous building foundations.

Unable to detect further Pipe appears to be silted.

Detected ground penetrating radar target assumed to be buried manhole.

Unable to detect further due to loss of signal.

Manhole chamber silted at 0.25m.

Unable to detect further due to loss of signal.

Manhole chamber silted at 0.60m.

Unable to locate BT cable route. Position taken from statutory records.

Manhole chamber silted at 0.45m.

Manhole chamber silted at 0.80m. No visible outfall.

NOTES

A variety of detection technologies were used to produce the underground information recorded for this non-invasive survey. Variations in ground conditions, depth and density of services and signal interference from surrounding features can affect the accuracy of these technologies, therefore 100% detection and accuracy cannot be guaranteed.

All utility/service depths are in metres and are taken to the top of utility/service unless otherwise stated.

All pipe/duct sizes are in millimetres unless otherwise stated.
Pipe sizes are shown from visual inspection or taken from statutory information.

The utility survey was carried out in accordance to PAS128:2014 Type B M2-M3. For quality levels please refer to the specification. All depths measured by tape at accessible chambers are to GLA.

However, as all dimensions measured by tape at manholes and inspection covers are determined from ground level due to non-entry of chambers, these should be treated as indicative only.

Underground services shown on this drawing are illustrated by a single service line. This single service line may actually represent multiple cables and/or ducts.

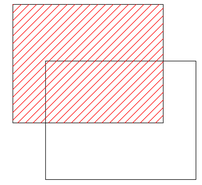
An anomalous feature is an unidentified subsurface area evident within the radar data that differs in response to its surrounding area. Examples of anomalous features include voiding, heavily saturated ground, buried tanks and demolished building foundations.

Pulse Mapping has overlaid the results of this underground utility survey on to a topographical survey provided by the client. We cannot accept liability for any errors/inaccuracies contained within this topographical survey.

Availability of Statutory Records

Utility/Service Type	Record Provided	Record Owner
BT	Yes	Openreach
Electricity	Yes	UKPN
Gas	Yes	Cadent
Oil/Fuel	No	-
Sewer	Yes	Thames Water
Telecom	Yes	Virgin Media
Water	Yes	Essex & Suffolk
Other	No	-

SHEET LAYOUT



ABBREVIATIONS

AV	Air Valve	IL	Invert Level
BB	Belisha Beacon	IRS	Illuminated Road Sign
BCD	Bottom of Chamber Depth	LP	Lamp Post
BH	Borehole	MH	Manhole
BL	Basement Light	MKR	Marker
BM	Bench Mark	MW	Monitoring Well
BO	Bollard	P	Post
BS	Bus Stop	PB	Post Box
BT	British Telecom Cover	PE	Polyethylene
CAB	Cabinet	RE	Rodding Eye
CATV	Cable Television Cover	RG	Rain Gully
CCTV	Closed Circuit TV	RS	Road Sign
CI	Cast Iron	SI	Spun Iron
CL	Cover Level	SP	Sign Post
CO	Clean Out (Non-Cast)	ST	Stump
DI	Ductile Iron	STN	Survey Station
DIA	Diameter	SV	Stop Valve
DP	Down Pipe	SW	Surface Water
EJB	Electricity Junction Box	TCB	Telephone Call Box
EP	Electricity Pole	TCD	Top of Chamber Depth
ER	Earth Rod	TL	Traffic Light
FB	Flower Bed	TLCB	Traffic Light Control Box
FH	Fire Hydrant	TP	Telegraph Pole
FL	Flood Light	UTL	Unable To Lift
FW	Foul Water	VC	Vitrified Clay
FWP	Foul Water Pipe	VP	Vent Pipe
GM	Gas Meter	WLD	Water Level Depth
GP	Gas Pipe	WM	Water Meter
GV	Gas Valve	WSC	Water Stop Cock
IC	Inspection Cover	WSV	Water Stop Valve
ID	Invert Depth	WWO	Water Wash Out

LINE-TYPE KEY

E, E, E	Electricity
SL, SL, SL	Street Lighting
W, W, W	Water
G, G, G	Gas
BT, BT, BT	British Telecom
UT, UT, UT	Unknown Telecom
VM, VM, VM	Virgin Media
FO, FO, FO	Fibre Optic
TC, TC, TC	Traffic Control Signalling
CCTV, CCTV, CCTV	CCTV
DUCT, DUCT, DUCT	Empty Duct
E, E, E	Earth
SW, SW, SW	Surface Water
FW, FW, FW	Foul Water
CW, CW, CW	Combined Sewer
OF, OF, OF	Oil/Fuel Pipe
UNK, UNK, UNK	Unknown Pipe
UNK, UNK, UNK	Unknown Cable
MET, MET, MET	Metallic Target
RAD, RAD, RAD	Radar Target
POS, POS, POS	Possible Target
ASS, ASS, ASS	Assumed
MISC, MISC, MISC (Colour indicates service type)	Statutory Records
	Scan Area
	Unable to GPR Area
	Kerb
	Fence
	Wall
	Building
	Surface Scar
	Change of Surface
	Building
	Extents of Chamber
	GPR Detected Anomalous Area
	GPR Detected Reinforcing
	Radio Frequency Disturbance
	Electrical Interference

CLIENT:

SITE:

PROJECT REF:

DRAWN:	DATE: 30/10/19
CHECKED:	SHEET NO:
SCALE:	REV:

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