

OS NORTH

Underground Services Abbreviations

A	Approximate	HV	High Voltage	SA	Soakaway
AC	Asbestos Cement	HDPE	High Pressure Polyethylene	SN	Swan Neck
BD	Back Drop	IL	Invert Level	SI	Spun (Grey) Iron
BL	Base Level	INT	Interceptor	SL	Silt Level
BR	Brick	NVD	No Visible Ducts	SS	Stainless Steel
CI	Cast Iron	NVP	No Visible Pipes	T	Tank
CO	Concrete	NVE	No Visible Exit	UTF	Unable to Find
CP	Catch Pit	OF	Offset Fill Point	UTGA	Unable to Gain
CPL	Catch Pit Base Level	OSA	Outside Survey Area	Access	
CR	Cable Riser	PE	Polyethylene Pipe	UTL	Unable to Lift
d	Depth to Service (in metres)	PVC	Polyvinyl Pipe	UTR	Unable to Rod
DI	Ductile Iron	Composite		UTS	Unable to Survey
ED	Empty Duct	PR	Pipe Riser	UTT	Unable to Trace
EOT	End of Trace	PS	Poor Signal	VC	Vitrified Clay
GPR	Ground Penetrating Radar	PT	Pea Trap	VR	Vapour Recovery
GRP	Glass Reinforced Plastic	RM	Rising Main	WL	Water Level
GR	Gas Riser			WR	Water Riser

Utility Linetypes

Air (B1)	Comms (B1)	Ducting (B1)	GPR (B2)
Alarm (B1)	Combined (Drainage) (B1)	Earth (B1)	Vent Line (Fuel) (B1)
BT (B1)	Foul (Drainage) (B1)	Electric (LV) (B1)	Fuel (B1)
CATV (B1)	Storm (Drainage) (B1)	Electric (HV) (B1)	Gas (B1)
Guage Lines (B1)	Oil Pipe (B1)	Vapour Recovery (B1)	Offset Fill (B1)
Heating Pipes (B1)	Empty Duct (B1)	Vent Pipe (B1)	Unidentified (B1)
LPG (B1)	Traffic Control (B1)	Water Pipe (B1)	Multi Service Route (B1)
Survey Boundary (B1)	Text (B1)	Unable To Survey (B1)	Chamber Extents (B1)
Approx Location (B1)	Scar (B1)	Manhole (B1)	Fibre Optics (B1)

Chamber Extents Unknown Chamber Extents Radar Area Anomaly

PAS 128:2014 Quality & Confidence Levels

(A) Horizontal and vertical position verified visually (Accuracy: Horizontal (±50 mm) Vertical (±25 mm))

(B1) Horizontal and vertical location of the utility detected by multiple geophysical techniques used. (Estimated accuracy: ±150 mm or ±15% of detected depth whichever is greater)

(B2) Horizontal and vertical location of the utility detected by one of the geophysical techniques used. (Estimated accuracy: ±250 mm or ±40% of detected depth whichever is greater)

(B3) Horizontal location only of the utility detected by one of the geophysical techniques used. (Estimated accuracy: Horizontal (±500 mm) Vertical - Undefined)

(B4) A utility segment which is suspected to exist but has not been detected and is therefore shown as an assumed route. (Estimated accuracy: Undefined)

(C) Route transcribed from utility asset plans and correlated to visual indicators and surface features. (Estimated accuracy: Undefined)

(D) Route transcribed from utility asset plans (Estimated accuracy: Undefined)

NB: 'P' suffixed to the quality level indicates GPR data has been post-processed. QL(A) is inferred at all MH's & IC's unless otherwise stated.

Disclaimer

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Electromagnetic and Ground Penetrating Radar techniques combined with visual inspection have been used to locate and map the underground services shown on this plan. Warner Surveys Utility Mapping Limited use all reasonable efforts expected of experienced and qualified staff combined calibrated equipment to perform our surveys, however, the completeness of any underground survey cannot be guaranteed.

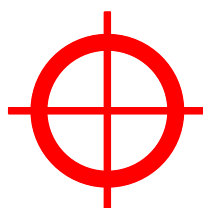
Depths are provided as a guide only. Services shown as QL(C), QL(D) or TFR (taken from records) and QL(B4) or AR (assumed route) have not been proven on site and are not guaranteed.

Please note that not all buried pipes, utilities and features can be detected and mapped due to conditions outside of our control, such as depth, location, material type, geology and proximity to other services. It is recommended that trial holes are undertaken to confirm identification, location and depth of services at critical locations.

Warner Surveys Utility Mapping Limited cannot be held responsible for any inaccuracies beyond those that could be reasonably expected of a competent company. No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times in line with HSG47. All information contained within this survey should be used in conjunction with the accompanying Utility Survey Report and Desktop Utility Search.

All depths taken with EML Methodology are taken to the CENTRE of the Utility.
All depths taken with GPR Methodology are taken to the TOP of the Target
All depths taken to Drainage Pipes / Fibre Optics / Empty Ducts are taken to the BOTTOM (INVERT) of the pipe and the pipe / duct diameter must be taken into consideration when excavating.

Rev	Svyr	QA Check	Description	Date
Prelim	-	-	Preliminary - Not Complete	-
0	GC	LL	First Complete Issue	17/12/2025
1	-	-	-	-



WARNER SURVEYS

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PAS 128 Utility Mapping Surveys · Desktop Utility Record Searches · GPR Surveys & Post-Processing

Drainage Connectivity Surveys · Borehole Clearance Surveys · CCTV Drainage Surveys

High Pressure Water Jetting · Confined Space Entry · Concrete & Ferro Scanning

Surveyed	GC, DW	Sportslabs
Drawn	GC	
Scale	1:200	

TOWER HILL, HEATHFIELD DRIVE KIRBY L33 1WE	
Utility Mapping Survey	
JOB No	DRAWING NUMBER
UM/225/0308	UM/225/0308/P/0001
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A2 Landscape	

