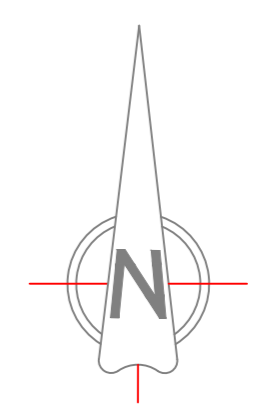


BURIED ASSETS DETECTED ON SITE:

LINE TYPE	SERVICE DESCRIPTION
—BT—	TELECOMMUNICATIONS (BT)
—CATV—	TELECOMMUNICATIONS (CATV)
—TELE—	TELECOMMUNICATIONS (OTHER)
—G—	GAS
—TCSU—	TRAFFIC CONTROL SENSOR UNIT
—SL—	STREET LIGHTING
—LV—	LOW VOLTAGE
—HV—	HIGH VOLTAGE
—W—	WATER
—FWO—	FOUL WATER DRAINAGE
—SWD—	SURFACE WATER DRAINAGE
—FWM—	FOUL WATER RISING MAIN
—CS—	COMBINED SEWER
—OP—	OUTLETS
—U(GPR)—	UNKNOWN UTILITY (GPR)
—UBS(L)—	UNKNOWN UTILITY (RADAR)
EOT	END OF TRACE
AR	ASSUMED ROUTE



Abbreviations/Symbols (Measured Building Surveys):

C:	Window Cill Height
H:	Window Head Height
BH:	Beam Height
DH:	Door Height
COL:	Column
SVP:	Soil Vent Pipe
FL:	Floor Level
TH:	Threshold Level
Ⓢ:	Floor to Ceiling Height
⌒	Vaulted Ceiling

Line Types

—	Hedge Lines
—	Drainage Runs
—	Overhead Electricity Cables
—	Overhead Telephone Cables

Symbols

⊙	Tree/Bush	⊠	Glass House
⊙	Control Station	⊕	Osbm
⊙	Borehole		
⊙	Trial Hole		

Abbreviations (Topographic Survey):

AB	AIR BRICK	OHC	OVERHEAD CABLE
AV	AIR VALVE	OS	ORDNANCE SURVEY
B	BOLLARD	OSR	OPEN STEEL RAILINGS
BB	BELISHA BEACON	P	PILE
BDY	BOUNDARY	PB	PILLAR BOX
BH	BOREHOLE	PM	PARKING METER
BL	BED LEVEL	PO	POST
BRK	BRICKWORK	PRF	POST & RAIL FENCE
BS	BUS STOP	PTM	PARKING TICKET MACHINE
BM	BENCH MARK	PWF	POST & WIRE FENCE
BW	BRICK WALL	RB	RIGHT BANK
BWF	BARBED WIRE FENCE	RE	ROOFING EYE
CBF	CLOSE BOARDED FENCE	RS	ROAD SIGN
CIF	CORRUGATED IRON FENCE	RTW	RETAINING WALL
CL	COVER LEVEL	RWP	RAINWATER PIPE
CLE	CHAIN LINK FENCE	SC	STOP COCK
CONC	CONCRETE	SDP	STAND PIPE
CP	CONCRETE POST	SK	SOAKAWAY
CPF	CHESTNUT PALING FENCE	SL	SOFFIT LEVEL
CR	CYCLE RACK	SMH	SURFACE WATER MANHOLE
CTV	CABLE T.V. MANHOLE	SMP	SHEET METAL FUNIC
CUL	CULVERT	SP	SIGN POST
DK	DROP KERB	STN	STATION
DL	DECK LEVEL	SV	SUICIDE VALVE
DP	DOWNPIPE	SVP	SOIL VENT PIPE
DRP	DAMP PROOF COURSE	SWF	SHEEP WIRE FENCE
DR	DRAIN	TBM	TEMPORARY BENCH MARK
DWB	DOG WASTE BIN	TCB/TCP	TELEPHONE BOX/POST
EA	ENVIRONMENT AGENCY	TC	TELECOM CABINET
EB	ELECTRICITY BOX	TMH	TELECOM MANHOLE
ECF	ELECTRIC CABLE FENCE	THL	THRESHOLD LEVEL
ECR	ELECTRICITY CABLE FIT	TL	TRAFFIC LIGHT
EMH	ELECTRICITY MANHOLE	TLB	TRAFFIC LIGHT BOX
EP	ELECTRICITY POLE	TP	TELEGRAPH POLE
ER	EARTHING ROD	TRS	TRIMMER RUBBING STRIP
ETL	ELECT TRANSMISSION LINE	TS	TREE STUMP
FB	FLOWER BED	TSR	TUBULAR STEEL RAILINGS
FR	FOOTBRIDGE	VP	VENT PIPE
FH	FIRE HYDRANT	WB	WASTE BIN
HM	FIRE HYDRANT MARKER	WL	WATER LEVEL/WATER LINE
FL	FLOOR LEVEL	WM	WATER METER
FP	FENCE POST	WMP	WIRE MESH FENCE
FWM	FOUL WATER MANHOLE	WP	WOODEN POST
G	GULLY	WPS	WOODEN POST & RAIL FENCE
GL	GROUND LEVEL	WV	WATER VALVE
GP	GATE POST	YG	YARD GULLY
GM	GAS MARKER		
GV	GAS VALVE		
HW	HEAD WALL		
IC	INSPECTION CHAMBER		
IL	INVERT LEVEL		
IRF	IRON RAILING FENCE		
IWF	INTERWOVEN FENCE		
JB	JUNCTION BOX		
JIG	KERB INLET GULLY		
LB	LEFT BANK		
LF	LIFEBOY		
LP	LAMP POST		
MB	MOORING BOLLARD		
MF	MISCELLANEOUS FENCING		
MH	MANHOLE		
MKR	MARKER		
MP	MOORING PILE		
MRF	METAL RAILING FENCE		
MS	MILE STONE		
NB	NOTICE BOARD		

Quality Level of Utility Survey Outputs:

The drawing has been derived from the amalgamation of several data sets: utility service provider buried asset plans, visual confirmation by way of lifting manholes, and measuring depth, type and location of services, electromagnetic detection, and GPR scans.

All the data sets have been allocated a "weighting" based upon the likely accuracy and confidence. The final amalgamation is performed by polynomial rubber sheet distortion of service provider assets plans for a "best fit" to resemble on-site survey data findings as close as possible.

The accuracy of the horizontal location of each utility is defined by Table 1 'Quality level of survey outputs PAS128(normative)' for QL-B2P = +/-0.25m or +/-40% of detected depth, whichever is greater.

The accuracy of the vertical location of each utility as defined by Table 1 'Quality level of survey outputs PAS128(normative)' for QL-B2P = +/-40% of detected depth.

Care should be taken by designers when utilising the findings within this drawing, and should confirm depths by visual confirmation/verification using vacuum excavation or slit trench technology if a higher degree of accuracy is required to meet the design brief specification.

Utility Survey Disclaimer:

We have endeavored to locate as many buried services as possible using the Best Available Technology (BAT) and applying the Best available Techniques as defined under guidance from the The Survey Association (TSA) and the British Standard PAS128 for Utility Surveys.

However, the user of this drawing should be aware that the results found using Best Available Technology are subject to errors and tolerances resulting from geophysical properties of the subsurface (which can be a significant limitation/inhibitor to the survey), out of the control of the operator, being surveyed/captured. In addition survey findings are interpreted on site in real-time and thus are subject to interpretative and subjective variations. This information is given without warranty, the accuracy thereof cannot be guaranteed.

The accuracy of the findings indicated within this drawing, cannot be guaranteed or indemnified, and should only be used as a guide as defined by the Health & Safety Executives (HSE) guideline - HSG47.

Lines on this drawing indicating the presence of buried services may actually be indicating the presence of closely bunched cables or pipelines, therefore the user of this drawing should not assume that a single line is indicative of the number of services within the area. In addition services below detected utilities may be masked from detection by the shadow cast from shallower depth services.

Metal pipes, communication cables and earth bonds can 'present' electromagnetic fields similar to that of high voltage and low voltage cables under load, if alternating electromagnetic fields are in close proximity from other power cables or sub-stations etc.

The designation of the services (i.e. is the detected service a water pipe or as pipe?) is open to interpretation and is based upon a number of references such as visible surface features (water stop valves, or gas meter) and utility provider records (indicating whether high voltage or low voltage). The best technology deployed is limited in its ability to define the exact type of service. The user of this drawing should prove, by means of safe-excavation, the type of service if critical to the design.

Equipment Deployed:
IDS Dual Frequency Ground Penetrating Radar (GPR) with on-site operator interpretation.

Radiodetection RD8000 & T10 Electromagnetic Generator and Precision Cable Locator.

Survey Notes:

Coordinates and levels related to Ordnance Survey Datum - GPS OSGB36 NG

Revision	Date	Description
01	06.07.22	Tree & Kerbline Added to West
02	14.10.22	Tree Canopies & Stems Measured

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Client	Castle Green Homes		
Project	Midnant Farm, Prestatyn Topographic & GPR Survey		
Scale	1:250	Surveyed By	CW
		Date	01.07.22
Drawing No.	B481-02	Checked By	VW
		Date	01.07.22
		Drawn By	CW
		Date	01.07.22