© Survey Operations Limited 2020
Reproduction in whole or in part by any means is prohibited without the prior permission of Survey Operations Limited.

N

Note:
The survey is plotted on a plane local Grid. Orientation to National Grid.
All levels relate to Ordnance Datum, achieved using the
OS National GPS Network.

Survey Control Markers established for Mapping purposes only and should not be used for Construction without the written approval of Survey Operations Ltd.

SURVEY STATIONS

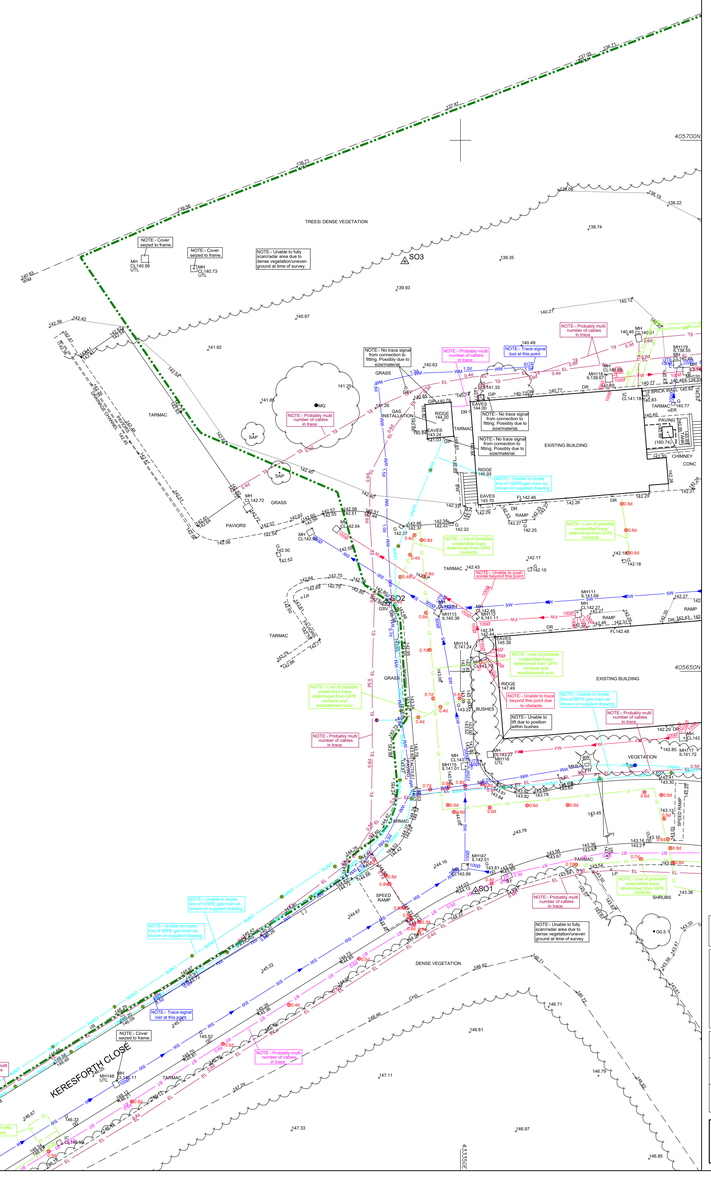
Name	Easting	Northing	Height
S01	433351.42	405629.27	144.06
S02	433347.61	405633.56	139.58
S03	433344.76	405688.58	139.56
S04	433385.32	405680.92	139.11
S05	433435.89	405707.21	136.99
S06	433460.83	405705.91	139.20
S07	433470.33	405718.83	136.66
S08	433497.63	405702.96	136.08
S09	433536.85	405729.15	131.28
S010	433538.94	405729.35	131.24
S011	433532.46	405702.68	132.87
S012	433544.33	405692.47	132.73
TW1	433391.09	405608.72	141.35
JM1	433385.82	405642.58	142.49
JM2	433426.30	405578.36	140.87
JM3	433482.56	405501.79	140.24
JM4	433511.78	405546.18	137.39
JM5	433521.11	405569.90	136.45
JM6	433546.76	405631.45	135.15
JM7	433534.81	405603.43	135.55
JM8	433534.60	405661.45	134.83

Utility survey added to topographical survey job number 20B230_A

All drainage information must be verified with local authority records before use.

STANDARD REFERENCE & ABBREVIATIONS

(AM).....Assumed Route	IL.....Invert Level
AB.....Air Brick	IP.....Inlet Pipe
AV.....Air Valve	KO.....Kerb Outlet
B/W.....Barbed Wire	LB.....Letter Box
BAR.....Barrier	LP.....Lamp Post
BB.....Bellaire Beacon	MB.....Multi-Girth
BH.....Borehole	MH.....Manhole
BL.....Bed Level	MKR.....Marker
BOL.....Bollard	MP.....Mooring Point
BS.....Bus Stop	NP.....Street Name Plate
BT Box.....British Telecom Box	O/H.....Overhead
BT.....British Telecom ID	O/P.....Open Paling
BRTW.....Brick Retaining Wall	OE.....Overhead Electric Wire
BW.....Brick Wall	OP.....Outfall Pipe
C/B.....Close Boarded	OSBM.....Ordnance Survey Bench Mark
C/I.....Corrugated Iron	OT.....Overhead Telecom Wire
C/P.....Chestnut Paling	P/C.....Post & Chain
CB.....Control Box	P/R.....Post & Rail
CBW.....Concrete Block Wall	P/W.....Post & Wire
CCTV.....Closed Circuit TV	PAV.....Paving
CD.....Cable Duct	PB.....Pillar Box
CEL.....Cellar Light	PC.....Pedestrian Crossing
Ch/L.....Chain Link	PP.....Petrol Pump
CHM.....Chimney	PT.....Post or Pillar
CL.....Cover Level	RE.....Rodding Eye
CN.....Cable Marker	RS.....Road Sign
CO.....Culvert	RTW.....Retaining Wall
CONC.....Concrete	RWP.....Rain Water Pipe
CP.....Catch Pit	SAP.....Sapling
CRTW.....Concrete Retaining Wall	SL.....Sump Level
CTV.....Cable Television	SoL.....Soffit Level
CUL.....Culvert	SP.....Sign Post
CW.....Concrete Block Wall	SPL.....Springing Level
DC.....Drainage Channel	SRTW.....Stone Retaining Wall
DPC.....Damp Proof Course	SV.....Stop Valve (unspecified)
DR.....Drain	SVP.....Soil Vent Pipe
DSW.....Dry Stone Wall	SW.....Stone Wall
ESP.....Electricity Cable Pit	TAC.....Tactile Paving
ESI.....Electricity Inspection Cover	TB.....Traffic Bollard
Ex.....Expansion Joint	TBM.....Temporary Bench Mark
ELB.....Electricity Junction Box	TCB.....Telephone Call Box
EL SUB STN..Electricity Sub Station	TFR.....Taken From Records
EL.....Eaves Level	TIE.....Anchor Point (Boats/Poles)
ELB.....Electricity Box	TL.....Traffic Light
EP.....Electricity Pole	TLB.....Traffic Light Control Box
ER.....Earth Rod	TM.....Ticket Machine
ETL.....Electricity Transmission Line	TWC.....Tarmac
FB.....Flower Bed	TP.....Telecommunications Pole
FH.....Fire Hydrant	TPIT.....Trial Pit
FL.....Floor Level	TS.....Trash Screen
FP.....Flagpole	U/C.....Under Construction
F*.....Girth of Tree;	U/G.....Underground
G.....Gulley	UTL.....Unable to Lift (BM,IC etc)
GAB.....Gabion	UTS.....Unable to Survey
GIP.....Gas Inlet Pipe	VDP.....Vehicle Detector Pad
GWM.....Gas Marker	VP.....Vent Pipe
GSV.....Gas Stop Tap (Domestic)	W/M.....Wire Mesh
HSV.....Gas Stop Valve (Mains)	WL.....Water Level
HSE.....Housing	WM.....Water Meter
Ht.....Height	WO.....Wash Out
HV.....High Voltage	WP.....Waste Pipe
I/R.....Iron Railing	WSV.....Water Stop Tap (Domestic)
IC.....Inspection Cover	WSV.....Water Stop Valve (Mains)



SW	STORM WATER SEWERS
FW	FOUL WATER SEWERS
WM	WATER MAIN
GM	GAS MAIN
EL	ELECTRIC CABLES
DUCT	CABLE DUCTING
BT	BT (UNDERGROUND)
CCTV	CABLE TV
CCTV	CLOSED CIRCUIT TV
UF	UNIDENTIFIED FEATURE
UP	UNIDENTIFIED PIPE
UC	UNIDENTIFIED CABLE
UMFS	UNIDENTIFIED FEATURE
EOT	END OF TRACE
FW	LATERAL CONNECTIONS
	EXTENT OF SURVEY BY SURVEY OPERATIONS LTD.
	EXTENT OF SURVEY BY SURVEY OPERATIONS LTD
0.0d	BURIED FEATURE FOUND USING RADAR
FW	CONNECTIVITY BETWEEN CHAMBERS FROM CCTV REPORT
SW	BURIED FEATURE FOUND USING RADAR

UNIDENTIFIED - A buried feature or utility that has been located, but we are unable to state what it is.
IMPROVEN - The assumed location of a reported feature or utility, usually taken from records, but not found during the utility trace (due to various conditions).
CAUTION - Electric pot ended cables, even when they are live, are unable to be detected or traced.

UNDERGROUND UTILITIES SERVICES DISCLAIMER

We have endeavoured to locate existing services using records provided by Statutory Authorities as a guide. Some apparatus were untraceable and details have therefore been taken from Utility Record Drawings, which may be of poor quality. Consequently we cannot guarantee accuracy of information taken from such records.

Where indicated, no allowance has been made for sub-surface entry into manholes, other chambers or confined spaces below ground level. Therefore any details relating to depths, sizes etc. are taken from the surface and as such will be approximate.

We have endeavoured to supply you with the most accurate data possible by using methods and equipment that are at the forefront of our industry. We have taken great care in the detection of pipework and buried features, but as with all methods of detecting underground or buried utilities the information provided is based on results obtained from electromagnetic techniques, and as such may be liable to distortion or errors beyond the reasonable control of the operator or his instruments.

It is the responsibility of the user under Health & Safety (HSG47) Guidelines to satisfy himself of the suspected location of any services prior to excavation of the services shown.

NOTE 1

This utility survey has been undertaken using:
A: Radiodetection RD4000 + RD4200 TX2
B: Ramo Geoscience Ground Probing Radar

NOTE 2

Power carrying features shown on this drawing are shown as an individual service line. This does not necessarily represent the number of cables actually present and it is possible that there could be multi numbers of cables including HV, LV and communications transmission cables following the same trace line. This could not affect depth of the trace signal from the deeper cable being masked by signal emitted from the shallower service above. Cable runs could also be present running parallel to the single line shown.

1 2
3 4
5

Survey Operations
Smith Street, Skelmersdale, Lancs. WN8 8LN
Tel: 01695 725662 Fax: 01695 51816
Email: mail@surveyops.co.uk - www.surveyops.co.uk

Client: Waterman Infrastructure & Environment	
Drawing Title: Utility Survey of Land at: Trinity Academy Barnsley Sheet 1 of 5	
Scale(s): 1:200	Surveyor: MB/TW
Date: Jul 20	Drawn: IT
Job Number: 20F040	Checked: TW/MB/IT
Sheet Size & Drg Number & Revision: A0 20F040/001	