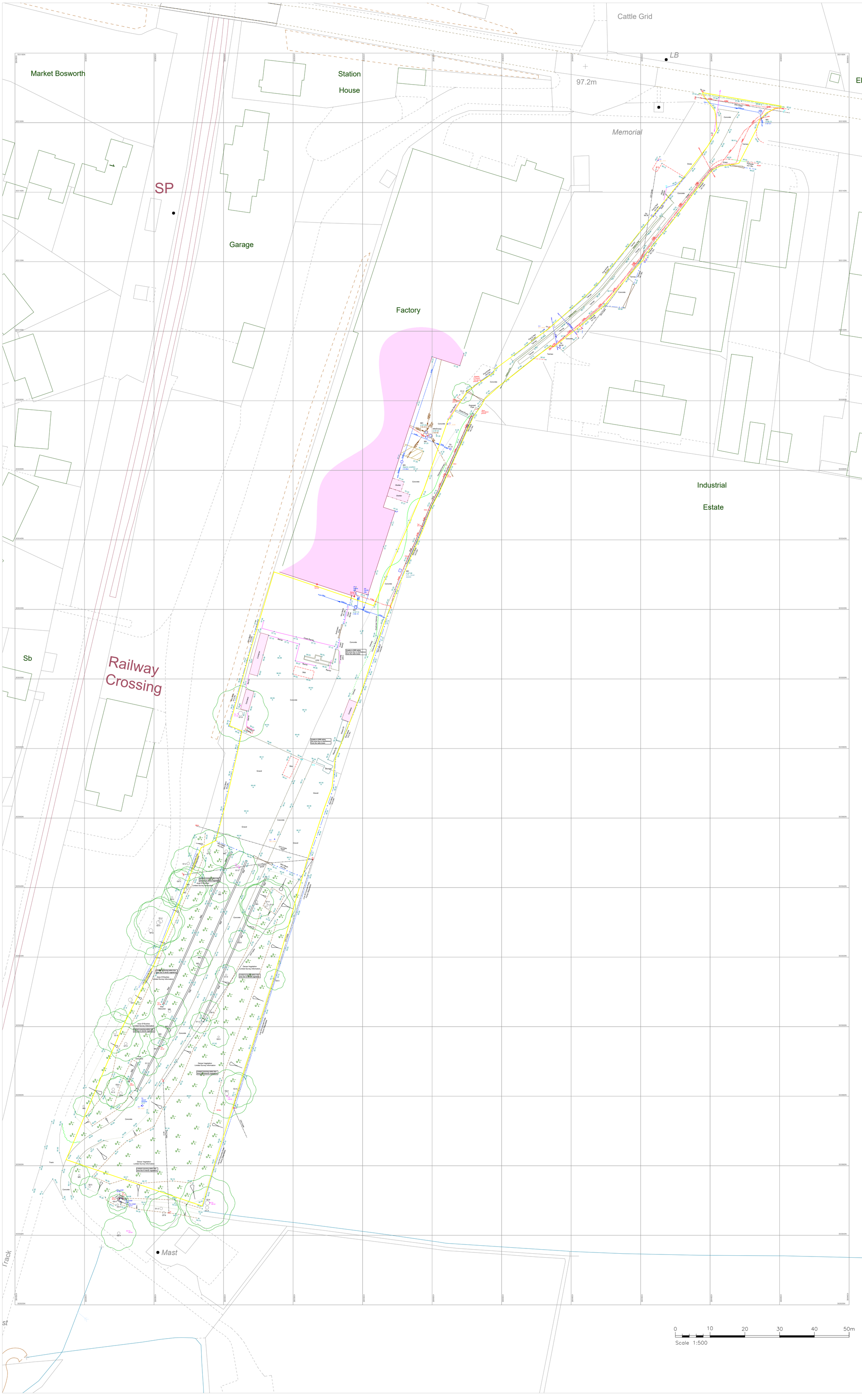


PAS 128 Line examples B1-B4

Electric — E (B1); E (B2); E (B3); E (B4)

Key - Underground Services

Combined Sewer	
Foul water	
Surface water	
Other	
Gas	GAS
Electric	E
Telephone	BT
Cable TV	CATV
Unidentified	U
Water	W
Closed Circuit TV	CCTV
Communications	COM
Heating Pipe	HP
Empty Duct	ED
Fibre Optics	FO
Vents	V
Pipe	PIPE
Traffic Signal	TS
Gauge Lines	G
Vapor Recovery	VR
Offsets	O
Fuel	F

Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus;

Key - Utilities

AC	Acoustic Connection	GV	Gas Valve	SVP	Soil Vent Pipe
AR	Assumed Route	HOR	Head of Run	TE	Trapped Exit
BD	Backdrop	HL	High Level	TP	Telegraph Pole
BL	Bed Level	IC	Inspection Chamber	UTC	Unable to Camera
BOS	Bottom of Shaft	IL	Invert Level	UTF	Unable to Find
D	Depth	MH	Manhole	UTL	Unable to Lift
CL	Cover Level	OSA	Off Survey Area	UTR	Unable to Rod
CR	Cable Riser	PDR	Poor Depth Response	UTS	Unable to Survey
DP	Down Pipe	PR	Pipe Riser	UTT	Unable to Trace
EOT	End of Trace	PTG	Pipe to Ground	VP	Vent Pipe
EP	Electricity Pole	PTS	Pipe to Surface	WL	Water Level
FH	Fire Hydrant	RWP	Rainwater Pipe	WM	Water Meter
G	Gully	SV	Stop Valve	WO	Wash Out Valve

Utility Survey Notes

Electromagnetic and/or ground penetrating radar techniques have been used to locate and map underground utilities and features on this drawing. Mapmatic have made every endeavour to make sure that the information contained within this drawing is accurate and of the highest quality. However, the results from these types of surveys are not infallible and should the location or depth of services/features be of particular importance to a project, then it is strongly advised that trial excavations should be undertaken to confirm survey results.

Mapmatic have used all record drawings that were available to us by the client or by the statutory utility providers at the time of the survey. Any information taken from these drawings (ie pipe sizes, material) is not guaranteed. Services located from record drawings will be shown and annotated as taken from records (tfr). Historic record information is often incomplete/inaccurate and cannot be relied upon.

A single line indicating a utility may indicate the presence of multiple services within close proximity to each other. Where a single line type is shown we recommend hand digging within 0.5m, to expose hidden services.

Where quoted, depth information of underground services/features is stated. Depths are generally +/- 10% accurate, but cannot be guaranteed. Any depths shown are usually to the top of the service/feature. Gravity sewers and drains are usually to invert (base of drainage channel) unless otherwise stated.

At Mapmatic, we use skilled staff and modern calibrated equipment to perform our surveys. However, the completeness of any underground survey cannot be 100% guaranteed and we cannot be held responsible for any inaccuracies beyond those that could be reasonably expected by a competent company.

Contractors utilizing our drawings for intrusive work should take all reasonable measures to work safely in accordance with hsg47 guidelines "avoiding danger from underground services".

Utility Survey Notes

The utility survey area is indicated on the drawing within the layer UG_Survey_Boundary.

Mapmatic would strongly recommend having a CCTV survey of all the drainage within the site to obtain a more complete picture including the approximate position of buried inaccessible manholes and lateral connections.

The gas supply within the survey area is PE therefore unable to trace using radio detection, assumed routes have been shown where plausible and records have been used to fill in the gaps, all such routes shown are not to be considered accurate.

Mapmatic was unable to utilise GPR in some areas due to interfering signals being emmitted from a nearby radio tower. Excercise caution whilst excavating.

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 MHs & IC's unless otherwise stated.

Key - Topographical Abbreviations & Line Types

		Ø	Pipe Size		
Av	Air Valve	Fs	Flagstaff	R/Wall	Retaining Wall
Bg	Back Gully	FL	Floodlight	Re	Rodding Eye
BH	Borehole	G:	Girth Circumference	Sens	Sensor Post
Boll	Bollard	GrL	Ground Light	So	Soffit Level
B.Pav	Block Paving	Gy	Gully	Sp	Sign Post
BS	Bus Stop	Ht.	Height	St	Stop Tap
BT	British Telecom	IB	Illuminated Bollard	Sv	Stop Valve
CL	Cover Level	IC	Inspection Cover	TTL:	Tree Top Level
CBX	Control Box	IFL	Internal Floor Level	THL	Threshold Level
CPS	Concrete Paving Slab	IL	Invert level	TL	Traffic Light
CR	Cable Riser	KO	Kerb Outlet	Tp	Telegraph Post
CTV	Cable TV Cover	LBox	Letter Box	Ts	Traffic Signal
Dp	Down Pipe	Lp	Lamp Post	TT	Tactile Paving
Dp/Gy	Down Pipe & Gully	MG	Multigirth	TWL:	Top of Wall Level
DC	Damp Proof Course	MH	Manhole	UTL	Unable to Lift
Elc	Electric Cover	MKR	Marker Post	WP	Waste Pipe
Ep	Electricity Post	NVP	No Visible Pipes	WL	Water Level
Er	Earth Rod	PInv	Pipe Invert	Wm	Water Meter
Fh	Fire Hydrant	PPH	Parapet Height	Wo	Wash Out

Kerb; Drop Kerb; Tarmac; Concrete; Grass; Verge; Tops; Bottoms

Key - Ordnance Survey Line Types

OS Building; OS Road; OS Rail; OS Detail; OS Water; OS Vegetation

Ordnance Survey information is provided for a guide only.

Key - Measured Buildings

Arch	Arch level	HHL	Head height level	SusCL	Suspended ceiling level
CL	Ceiling level	P.Arch	Pointed Arch level	U/S	Underside level
DHL	Door height level	SHL	Sill height level		
FL	Floor level	SPR	Spring Point		

Beam; Ceiling break; Sloping ceiling direction; Step; Up

Station	Easting (m)	Northing (m)	Level (m)
M1	439276.391	302877.240	96.022
M2	439314.685	302953.917	96.292
M3	439364.472	303073.334	97.318
M4	439392.245	303100.493	97.964
M5	439425.026	303149.190	98.777

Rev	Date	Description of work	Surveyor	Checked by
1	29/05/2026	Utility Survey Added	BS	SH

MAPMATIC MEASURED SURVEYS

SETTING OUT · UTILITY SURVEYS · CCTV SURVEYS · CAMERA SURVEYS · FLOOD RISK ASSESSMENT
AERIAL SURVEYS · EARTHWORK CALCULATIONS · MEASURED BUILDING SURVEYS · TOPOGRAPHICAL SURVEYS

Mapmatic, Unit 14, Prime Parkway, Derby, DE1 3QB
Tel: 01332 650 580 www.mapmatic.com Email: info@mapmatic.com

Client

JJ Churchill Ltd

Project

JJ Churchill, Station Rd,
Market Bosworth,
Nuneaton CV13 0PF

Title

Topographical Survey

Scale	1:500@A1	Date	28.04.2026
Level Datum	GNSS	Grid Orientation	GNSS
Sheet No	1 of 1		

Job No./Rev.		Topo.	Util.	MBS
8805/0	Drawn by	TB	BS	-
	Checked	AW	SH	-

Notes:
All critical measurements should be checked on site prior to design. No liability will be taken for this plan if passed onto 3rd parties. Trees and other survey data may be omitted due to dense vegetation. Some services may have been omitted due to parked vehicles and vegetation. Please note the drainage information has been ascertained by visual inspection from the surface and therefore values are estimated.

This survey has been orientated to the Ordnance Survey (OS) national grid via a Global Navigation Satellite System (GNSS) and the OS Active Network (OS NET). A true OSGB36 coordinate has been established near to the site centre via a transformation using the OSTN15 & OSGM15 transformation models. The survey has been correlated to this point and a further one or more OSGB36 points established to create a true OS bearing for angle orientation. No scale factor has been applied to the survey therefore the coordinates shown are arbitrary and not true OS coordinates.
Please refer to the survey station table to enable establishment of the on-site grid.

RICS · BUILDER'S PROFILE · Constructionline · ICES

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0 10 20 30 40 50m
Scale 1:500