



TOPOGRAPHIC LEGEND

Barrier (symbol - size)	British Telecoms IC (size)	Cable into Ground (symbol)	Cable TV Box (symbol)	CCTV Camera (symbol)	Cover Level in metres	Direction of Flow (Drainage)	Distribution Board (symbol)	Earth Rod (symbol)	Electric Cabinet (size)	Electric Sign (symbol)	Feeder Filter (size)	Fire Hydrant (size)	Flag Pole (symbol)	Flood Light (symbol)	Gas Valve (symbol)	Ground Level in metres	Gully (size)	IC (size)	IC BT	IB BT	IB DCM	Junction Box - (size)	Junction Box - (size)	Lamp Post (symbol)	Light in ground (symbol)	Light in ground (symbol)	Manhole (size)	Manhole Capped Port	Parapet Level (m)	Pipe Diameter (mm)
Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	Post (symbol)	

UTILITY LEGEND

British Telecom	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television	Cable Television
Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	Gas	

UTILITY SURVEY INFORMATION

Assumed Service Route - See GENERAL NOTES
Using observation of service and colour as above

ABBREVIATIONS used on PAS 128 Survey
(0.65d BDP) 0.65d = Depth in metres, B2 = Quality Level, P = Post processed GPR

GENERAL NOTES

Inspective of the information provided by a utility survey and statutory plans, excavation work should be undertaken with extreme caution and in accordance with HSE Guidelines - HSG47 Avoiding Danger from Underground Services

Only sub-surface utility information is provided. Above ground utility information may be shown where it assists with positional referencing.

Utilities may continue outside of the survey area. Any point marks outside of the area are for investigative purposes only and may not represent the full extent of the sub-surface utilities.

Where logic indicates a utility exists but which cannot be positively confirmed with the technology, an assumed route (ASR) is recorded. All assumed service routes (ASR) have been highlighted with a background yellow colour for visual enhancement.

Sewer and manhole details shown on this drawing have been obtained by observation and measurement from the surface and as such cannot be guaranteed.

Vertical & Horizontal Position - Vertical position (depth) is indicative to the top of the utility/feature and is recorded as (x,xxd) i.e. (1,25d) - (depth to top of service) and should not be taken as exact, as this could be the surround to the service rather than the service itself. Where depth information from the technology is unclear, depth is not shown. Drains and pipeworks may have been detected using threading and the depth indicated could be between the top (topfl) and the bottom (invert). Horizontal position is indicative to the centre of the utility/feature and should not be taken as exact.

Warranty - Biodegradable paints are used to mark-out the position of the utilities. Markings may become illegible quickly depending on ground, weather and traffic conditions. No warranty is given in respect of the durability of the paint markings and that they are a complete representation of the sub-surface utilities, therefore, this drawing should be used as the primary reference for the survey results.

This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non-invasive technologies only and the performance can be adversely affected by ground, weather and site conditions outside of SUMO's control. Therefore, some utilities may be undetectable. While SUMO uses reasonable endeavours to detect all utilities, it does not warrant that 100% detection will be achieved and that approximate depth penetration of the technologies SUMO uses will not be greater than two metres.

Rev	Notes	Drawn	Date
1	Notes:		
2	Survey is referenced to OS Grid and Level Datum. Previous Sumo Survey "SOR012746" has been inserted into this model for reference.		

sumo **SURVEY SERVICES**

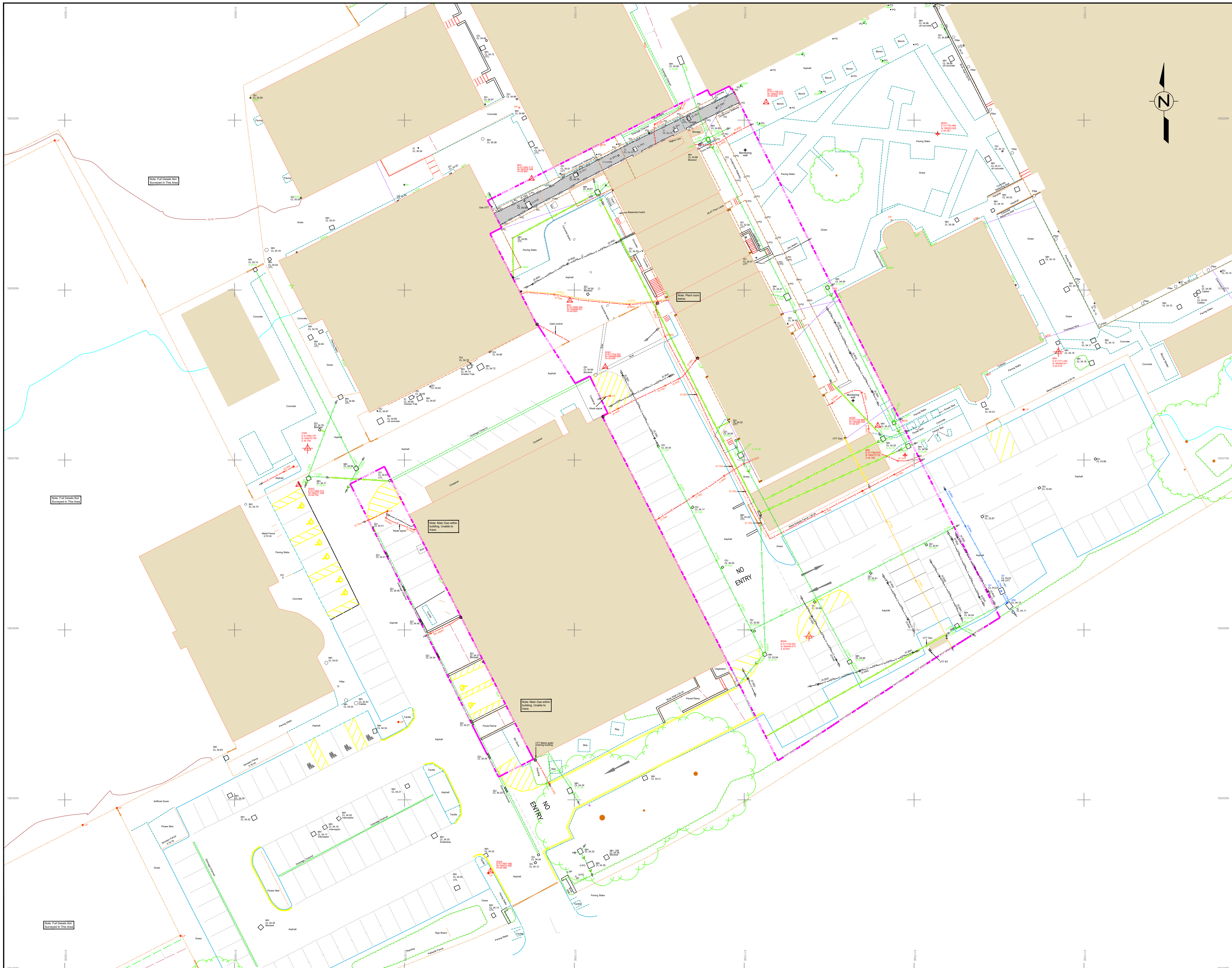
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Title: Topographic Survey

Client: Morgan Sindall

Project: Queensmead School, Queens Walk, Ruislip

Date Completed:	31 January 2020	Post Code:	HA4 0LS
Surveyed:	MW, NL, SG, CE	Scale:	1/250 (A1 Sheet)
Drawn:	RGW		
Checked:	MW, NL, SG, CE		
Dwg No:	Sheet 01 Topo	Job No:	SOR016943
		Rev:	

[illegible]

UTILITY LEGEND

UTILITY LINETYPES			
BT	British Telecom	G	Gas
CATV	Cable Television	HP	Heating Pipes
CCTV	Closed Circuit Television	HW	HW Cables
COM	Communications	MSR	Multiple Service Routes
CS	Cable Service	OC	Oil
CV	Drainage - Combined Water	OV	Oxygen
FW	Drainage - Fuel Water	SL	Street Lighting
SW	Drainage - Storm Water	TSL	Traffic Signal Loop
ED	Electric	GPB	Unknown Found by GPR
E	Electric	U	Unknown
F	Fire Hydrant Main	UC	Unknown Cable
FO	Fire Alarm	UL	Unknown Pipe
FUE	Gas Fuel	W	Water

Adapted from: Sengen, B. See: GENESEE

(Using abbreviation of service and colour as above)

UTILITY SERVICE INFORMATION

— AOC —	Area of Concern	UTS	Unable to Survey
— PREVIOUS —	Contracted Survey Area	U/L	Unable to Lift Trace
— PREVIOUS —	UTS	U/L	Unable to Trace
— GPR Survey —	Post processed GPR Area	ILL	Unable to Trace (due to blockage)
(0.65d)	Depth to Top of Service (m)	ILL	Unable to Trace Further
		ILL	End of Trace

ABBREVIATIONS used on a PAS 126 Survey

(0.65d B2P) 0.65d = Depth in metres, B2 = Quality Level, P = Post processed GPR

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Rev	Notes	Drawn	Date
Notes:			

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inserted into this model for reference



Title: Utility Mapping

Client: Morgan Sindall

Project:	Queensmead School, Queens Walk, Ruislip
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Date Completed:	31 January 2020	Post Code:	HA4 0LS
Surveyed:	MW NI SG CF	Scale:	

Surveyed:	MW, NL, SG, CE
Drawn:	RGW
Checked:	MW, NL, SG, CE

Dwg No:	Job No:	Rev:
Sheet 01 Utilities	SOR016943	