Topographical Plan

0 5m 10m 15m 20m 25m 1:500

KEY FOR UNDERGROUND SERVICES

Foul Water 300X and above
Foul Water 300X and above
Surface Water Drain
Surface Water Drain 300X and above
Combined Water Drain
Combined Water Drain 300X and above
End of trace — EOT
Electric cables
HV cables
Gas
Water
Telephone
Catv
CCTV
Comms
Fibre Optics
Pipe
Vents
Fuel
Offsets
Vapour Recovery
Gauge Lines
Unidentified GPR
Unidentified EML
Taken From Records
Assumed Routes
Empty Ducts
Earth Rod
Rising Main

Overhead
Heating Pipes
Traffic Signals
Multi User
Trench Scar
Service Duct

ABBREVIATION KEY

AR	assumed route
BD	backdrop
CBC	circular brick chamber
CCC	circular concrete chamber
CPC	circular plastic chamber
CL	cover level
CL	cover level
CR	cable riser
DP	down pipe
EBD	external back drop
EOT	end of trace
EP	electricity pole
FH	fire hydrant
FL	flooded
G	gully
GV	gas valve
HOR	head of run
HL	high level
IC	inspection chamber
IBD	internal back drop
IL	invert level
IRB	internal rest bend
MH	manhole
PL	pit level
PR	pipe riser
RE	rodding eye
RBC	rectangular brick chamber
RCC	
RWP	rainwater pipe
SIL	silted
SL	silt level
SV	stop valve
SVP	soil vent pipe
TBM	temporary bm
TFR	taken from records
TP	telegraph pole
UDO	unable to determine outfall
UTF	unable to find
UTL	unable to lift
UTR	unable to rod
UTS	unable to survey
UTT	unable to trace
VP	vent pipe
WL	water level
WM	water meter
WO	wash out valve

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

UTILITY SURVEY NOTES

ELECTROMAGNETIC AND/OR GROUND PENETRATING RADAR TECHNIQUES HAVE BEEN USED TO LOCATE AND MAP UNDERGROUND UTILITIES AND FEATURES ON THIS DRAWING. CS HAVE MADE EVERY ENDEAVOUR TO MAKE SURE THE RESULTS PRESENTED ON THIS DRAWING ARE ACCURATE AND OF THE HIGHEST QUALITY. HOWEVER, THE RESULTS PRESENTED ARE BASED ON SURVEYS WHICH HAVE BEEN CARRIED OUT. WHERE 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.

CS 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 WITHIN +/- 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 ALL 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 UTILISING OUR DRAWINGS FOR INTRUSIVE WORK SHOULD TAKE ALL REASONABLE MEASURES TO WORK SAFELY IN ACCORDANCE WITH HSG47 GUIDELINES "AVOIDING DANGER FROM UNDERGROUND SERVICES".

PAS 128 QUALITY LEVEL CLASSIFICATIONS.

QUALITY LEVEL LABELING OF UTILITY INFORMATION BY A CLASSIFICATION CODE ALLOWS THE USER OF THIS INFORMATION TO UNDERSTAND CLEARLY HOW THE INFORMATION WAS COLLECTED AND THEN PLACE AN APPROPRIATE AMOUNT OF RELIANCE ON IT. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED.

QL A INFORMATION IS OBTAINED BY EXPOSING THE UNDERGROUND UTILITY USING A NON DESTRUCTIVE EXCAVATION TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE.THE 3D LOCATION IS RECORDED AS AN X,Y,Z COORDINATE. TOLERANCES FOR QL- A CLASSIFICATION ARE +/- 50mm HORIZONTALLY AND +/- 25mm VERTICALLY.

QL B1 INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT TO OBTAIN A B1 QUALITY LEVEL. MULTIPLE TECHNIQUES MUST AGREE ON THE GEOPHYSICAL POSITION.
TOLERANCES FOR B1 CLASSIFICATIONS ARE +/- 150mm HORIZONTALLY AND +/- 15% OF THE DETECTED DEPTH VERTICALLY.

QL B2 INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. TOLERANCES FOR B2 CLASSIFICATIONS ARE +/- 250MM HORIZONTALLY AND +/- 40% OF THE DETECTED DEPTH VERTICALLY.

QL B3 INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL LOCATION ONLY OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. TOLERANCES FOR B3 CLASSIFICATIONS ARE +/- 500MM HORIZONTALLY WITH NO DEPTH GIVEN.

QL B4 INFORMATION IS ADDED AS AN ASSUMED ROUTE, THE UNDERGROUND UTILITIES HAVE BEEN UNABLE TO BE DETECTED USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT HOWEVER ARE SUSPECTED TO EXIST, THIS DATA SHOULD BE TREATED WITH CAUTION.

QL C INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR MANHOLES WITH EXISTING DRAWING AND RECORD INFORMATION TO DRAW A STRING OF UTILITIES. THIS METHOD OF UTILITY LOCATION IS NOT ACCURATE AND WILL USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE DIMENSIONAL INFORMATION.

QL D INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING UTILITY DRAWINGS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN.

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North point:

NORTH

Notes:

Topographic Legend:

- Buildings / Walls
- Building Canopy / Overhang
- Concrete edge
- Kerb line
- Centre Line
- Barrier
- Hedge
- Security Fence
- Panel Fence
- Gate
- Overhead Line
- Tree / Sapling
- Tree Canopy Line
- Chambers
- BM 100.00 — Bench Mark
- TBM 100.00 — Temporary Bench Mark
- CL — Cover level
- IL — Invert level
- Inv Ø 0.25 — Pipe invert (diameter)
- GU — Gully
- MH — Manhole
- IC — Inspection chamber

Trig	Trig Pillar	FS	Flag Staff
Ridg	Ridge Level	MKs	Gas Marker
Eave	Eave Level	EP	Electric Post
DPC	Dpc Level	TP	Telegraph Post
FL	Floor Level	Invt	Pipe Invert
Soff	Soffit Level	GU	Gully
TBo	Control Box	RP	Rodding Point
LP	Lamp Post	BT	Bt Cover
SP	Sign Post	CO	Cover Unknown
Post	Post	EC	Electricity Cover
WM	Water Meter	TL	Traffic Light
BB	Belisha Beacon	FH	Fire Hydrant
BOL	Bollard	GAS	Gas Cover
BS	Bus Stop	SV	Stop Valve

Revision Log:

Rev:	Description:	By:	Date:
-	-	-	-

Project:
Barnhills Farm,
Merrylees Road,
Thornton,
Leicestershire,
LE67 1AP

Client:
Markfield Day Nursery

Scale: 0 5m 10m 15m 20m 25m 1:500

Drawn by:	Checked:	Date:	Paper Size:
AO	TJN	Jan '24	A1

Drawing Title: Topographical Plan

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