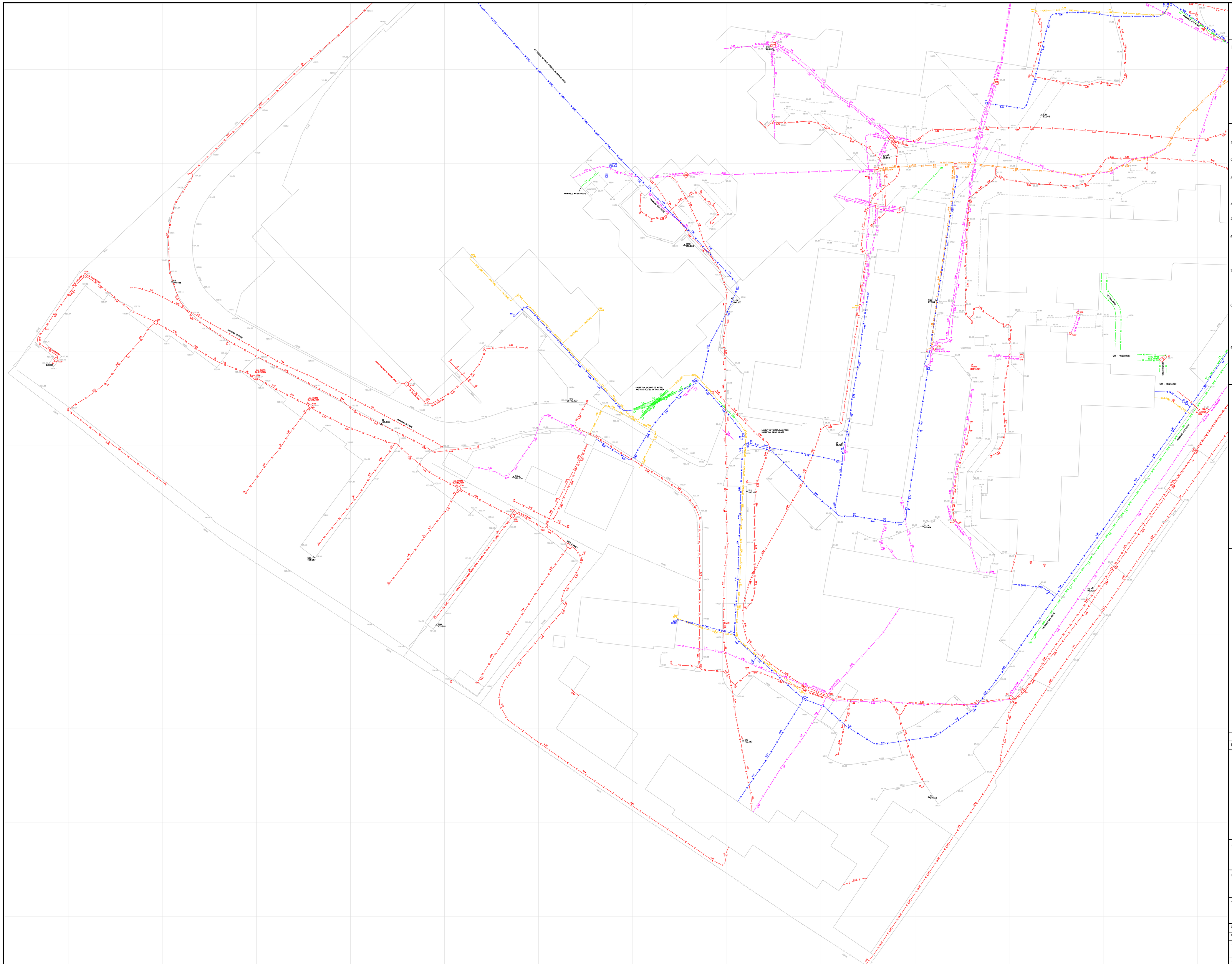
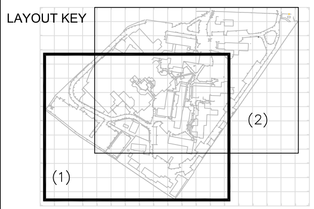


LAYOUT KEY



NOTES

1. This drawing is based upon basic topographical information surveyed by Met Geo Environmental. The co-ordinates are OS National Grid, and levels are to OS Datum (using the OS GPS Network).
2. Unless otherwise stated, all services shown on this plan have been surveyed using approved detectors and the connections between manholes, if not traced, are assumed to be direct.
3. Locational accuracy is determined by referring to manufacturer's guidelines for the detectors used. In ideal conditions the vertical accuracy for the underground utilities located and mapped are ±10% of the depth. The horizontal accuracy is ±20cm, although the majority of traced utilities will be much more accurate than this.
4. Depths shown on the drawing are the depth in metres below ground level to the centre of the conductor and do not necessarily indicate the depth to a duct or pipe.
5. The results of electro-detection techniques are not infallible -although all reasonable effort is made during site detection the completeness of the underground services information cannot be guaranteed.
6. An electric current will flow along the path of least resistance. This means that when a current is induced into a feature it will 'jump' to adjacent features if they offer a better conducting pathway. It is possible therefore that features that are detected by connecting to one type of apparatus may not in fact be that type of utility. The identification of apparatus cannot be assumed to be totally accurate.
7. It should be noted that the technique is limited to detecting features that either generate an electromagnetic field, such as power cables, or around which an electromagnetic field can be induced, such as some water pipes and some telecommunications cables (or empty pipes & ducts into which a conductor can be inserted), and it cannot therefore be guaranteed to reveal the exact routes of all buried services or to detect their presence.
8. Ground Penetrating Radar (GPR) has been used to survey transects across selected areas of the site. GPR has the potential to identify services unlocatable using traditional RFL techniques (i.e plastic pipes, fibre optics). However, the success of GPR is dependent upon many factors, including local ground conditions, density of services in the vicinity and ground vibration amongst others. The use of GPR cannot guarantee the detection of all services and service records should always be consulted in conjunction with the results of any electro-detection survey.
9. This drawing and the information contained therein is issued in confidence and is the copyright of Met Geo Environmental. Disclosure of this information to third parties and unauthorised copying or replication of this data without approval is forbidden.

ALWAYS EXERCISE CAUTION WHEN EXCAVATING

SUB-SURFACE KEY

- C — COMMUNICATIONS/DATA CABLES
- BT — BT CABLE(S)
- W — WATER SERVICES
- GAS — GAS SERVICES
- E — ELECTRICITY CABLE(S)
- SL — STREET LIGHT CABLE(S)
- H — HEATING/STEAM PIPES
- U — UNIDENTIFIED SERVICES
- GPR — POSSIBLE SERVICE - IDENTIFIED BY GPR
- GPR — PROBABLE SERVICE - IDENTIFIED BY GPR
- P — POWER (METALLIC FEATURE INDUCING 50Hz GROUND CURRENTS; PROBABLY CURRENT-CARRYING CABLES)
- R — RADIO (METALLIC FEATURE RE-RADIATING VLF RADIO ENERGY; UNKNOWN CABLES OR PIPES)
- BT (AR) — SERVICE NOT PROVEN - ROUTE ASSUMED FROM ONSITE INFORMATION AND/OR SERVICE RECORDS
- 0.75 W — APPROXIMATE DEPTH BELOW GROUND LEVEL OF APPARATUS IN METRES
- 24 SL-0.67/100H — NO. OF DUCTS; METRES BELOW GROUND LEVEL TO TOP OF DUCT; DUCT(S) DIAMETER
- UTR — UNABLE TO RAISE
- UTT — UNABLE TO TRACE
- OS — SERVICE EXTENDS OFF SITE
- TRENCH SCAR / SURFACE SCAR

Direction of North

Rev	Date	Drawn	Description	Check
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Client: Willmott Dixon Construction Ltd

Site: Kendray Hospital, Doncaster Road, Barnsley

Title: Utility Tracing Survey

Surveyed	MB RB	Drawn	MB RB
Chk.	HB	Date	27/03/13
Scale [A0 Sheet]	1/250	DWG Ref (Layout No)	12330-128_GEO A0 (1)
Status	FINAL		
Job No	12330/128	Rev	Ø