

Specification Summary Sheet for Underground Utility Surveys

Surveys will consist of one or more of the following types of survey

Services	Type A	Type B	Type C-1	Type C-2	Type D	Type E
Surface water drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Foul drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electricity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Telecommunications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CCTV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Type A) Record Information

Information can be obtained from the relevant Statutory Authorities and, if required, plotted as closely as possible with the surveyed surface features. PDF report also supplied.

Type B) Schematic Report

Walk through site & record schematic observations with a photographic record, produce a written report.

Type C) Drainage survey with visible evidence of other services

(C-1) Inspection covers will be lifted where possible and the services identified. Connections will be identified by visual/audible methods. For foul & stormwater drains we would expect to show all main pipes of 100mm diameter or larger recording type, cover level, invert level, pipe sizes and flow direction. We would not show side connections to gullies or rainwater pipes. Please note that we do not lift covers in the public highway without local authority permission and traffic management. Routes will be shown as direct connections rather than true route.

(C-2) As C-1 but we would trace drainage side connections where possible using sonding / line tracer and true routes would be shown

Type D) Full investigation including electronic tracing

Services will be fully investigated by visual survey supplemented by electronic & other tracing methods including minor connections where possible. We use a combination of equipment: the RadioDetection RD8000 CAT scanner with a signal generator and IDS 'Detector Duo' dual frequency ground penetrating radar (GPR).

Type E) Full investigation including electronic tracing with gridded GPR survey

As Type D plus GPR gridded survey at nominal 5m transect centres, with higher or lower densities depending on site conditions.

Note: Type D is a simplified version of the level 4 survey as set out in the Survey Association (TSA) guidance notes which are available from www.tsa-uk.org.uk. Type E is equivalent to the TSA level 4 survey. We can quote for surveys to TSA levels 1-6 if required.

Additional Items

Photographic record

- Digital photos of interior of manhole chambers (or cover if unable to lift)

Depth record

- Depths of buried services can be measured where conditions allow.

CCTV Drainage Survey (by sub-contractor)

- Filming the drainage run condition with high resolution cameras & providing the information on DVD plus a full report linked to any surveyed surface features.

Traffic management (by sub-contractor)

- Providing temporary traffic management (signs/lights etc) in accordance with national standards

Note:

The RadioDetection RD8000 system detects metallic pipes and cables. It cannot however, trace pipes or cables which are non-metallic unless buried with a tracer wire. Ground penetrating radar (GPR) shows the presence of voids, disturbed ground, trenches and pipes/cables underground but this can be impacted by ground conditions, obstructions (parked vehicles, tall crops, scrub) and accessibility (GPR is trolley based). Using a combination of the two we would anticipate being able to locate 80-90% of services on a site.

Additional items: