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Using the latest underground utility detection technologies, including Stream DP and Mala Easy Locator Ground Penetration Radar (GPR), Radio Frequency Location (RFL) and Electromagnetic Location (EML), Igne can accurately locate and identify buried services and utilities. This includes metallic and plastic pipes, drainage runs, electric cables, and communication and fibre optic cables. This means utility tracing can be performed for almost any type of underground utility, in house and in accordance with PAS128. Richard Prescott is your first port of call for all these services. His highly experienced team of technical experts will deliver you data you can absolutely rely upon.

## Capabilities summary

- **Topographical Surveys:** Map the shape and features of the ground
- **Pre and Post Condition Survey:** Document the condition of a site before and after construction/large GI projects as well as aiding with the planning of larger projects with regards to access/egress issues, vegetation clearance etc
- **Setting Out:** Mark positions of structures or features to be built
- **Survey Control Network Installation:** Create network of points with known locations for accurate measurements
- **Total Station Traversing:** Use electronic theodolite to measure angles and distances between points
- **GPS/RTK Networks:** Use satellite technology to determine positions
- **Bathymetric & River Cross Section Surveys:** Measure depth and shape of water bodies and rivers
- **3D Laser Scanning:** Capture a detailed three-dimensional image of an object or area
- **Measured Building Surveys:** Create detailed measurements of a building for various purposes
- **Floor Plans:** Drawings showing layout of rooms and walls on a particular level
- **Internal/External Elevations:** Measurements of the height of features inside and outside a building
- **BIM/Revit Modelling:** Creating a digital 3D model of a building for design and construction
- **Building Cross Sections:** Drawings showing the building as if cut through to reveal internal details
- **PAS 128 Utility Surveys:** Locate and identify underground utilities to avoid damage during construction
- **GPR/EML & RFL Surveys:** Use ground penetrating radar and electromagnetic locating to find underground utilities
- **PAS 128 Utility Clearance/Avoidance Surveys:** Ensure safe excavation around underground utilities
- **Drainage Connectivity & CCTV Surveys:** Map drainage systems and inspect pipes using closed-circuit television
- **UAV Lidar, Photogrammetry & Multispectral Surveys:** Use drones and specialised cameras to create detailed maps and models of large areas
- **Roof Condition:** Assess the condition of a roof from aerial imagery
- **Building Inspection:** Identify defects or damage on a building exterior from aerial imagery
- **Pre and Post Condition Survey:** Document the condition of a site before and after construction
- **Large Volumetric Surveys for Quarries/Earthworks:** Measure the volume of material in stockpiles or excavations
- **Concrete Scanning / Rebar Surveys:** Locate and map reinforcing steel (rebar) inside concrete
- **Voiding Surveys:** Detect and map empty spaces underground or inside structures
- **Precise Levelling & Settlement Monitoring:** Track changes in elevation over time to monitor for movement or settlement
- **Volumetric/Stockpile Calculations:** Determine the volume of material in a stockpile
- **Cut & Fill Surveys/Reporting:** Measure the amount of soil excavated (cut) and needed to fill an area (fill)