

BUILT ENVIRONMENT

Planning drawing

ELECTRICAL DRAWINGS

Produced by Electrical Draughtsman/CAD Operators, electrical drawings are schematics which contain information about the electrical and wiring needs for a given project. These may include power, lighting, data and telephony wiring; the location of outlets, switches, connections, breakers and distribution boards; other “hardwired” electrical systems and devices (fans, alarm systems, public address systems etc.). Drawings may be in the form of a floor plan showing location of features (outlets, devices, switches etc) and the general connections between, or wiring diagrams showing specific wiring and interconnection information. Drawings use a standard library of symbols to ensure understanding.

DRAINAGE SURVEYS

Drainage surveys deal with locating and cataloguing the existence, location and condition of drainage systems and their components. They can comprise of tables containing data on the locations and conditions of components, drawings and diagrams of the systems, and CCTV footage/images showing internal details of pipe networks and components. These will be prepared by drainage surveyors/engineers and CAD Technicians/Draughtsmen. Drainage surveys are useful for planning and creating new engineering works, modifying existing ones, or for maintenance of drainage systems themselves. As such they may be used by a range of people including civil engineers, site engineers, architects, planners and drainage engineers.

TOPOGRAPHICAL SURVEYS

Topographical survey is used to create maps containing details of the land and the features on it. These include natural features such as tree, rocks and waterways, and man made ones like buildings, walls, fences, telecom poles etc. The survey will also detail the contours of the land. A land surveyor (a specialist profession in it's own right) will make use of a variety of specialist equipment and GPS to take readings about the shape of the ground and the height and location of objects in and on it. The information gained from topographical surveys is used in construction for planning and building by architects, engineers and builders but may also be used by cartographers when preparing and updating maps.