



SURVEYS FOR DESIGN & COMPLIANCE

3D SPATIAL DATA FACT SHEET

Relevant accurate information about existing site constraints and the built form can significantly enhance the efficiency of any building or construction project.

Land Solution Australia offer a comprehensive range of the latest data acquisition technologies including UAV, 3D Scanning, GNSS (GPS), echo sounders, total stations and levels which are supported by industry leading knowledge in spatial data management and analysis. With modern technology and software to support our professional knowledge, there is no limit when it comes to scale or complexity of your project design or compliance requirements.





WHAT ARE SURVEYS FOR DESIGN & COMPLIANCE?

Surveys for design allow project managers, engineers, architects and planners to accurately adapt the thinking or aspirations of a client to the physical world. In many instances your requirements have tight accuracy constraints depending on the application, so a high level of expertise is required to capture a digital representation of the real world and present it in a standard format that others can use and interpret.

Similarly, surveys for compliance are about capture of the built form for ongoing maintenance or design of that asset, or to ensure it has been built to an approved intention. For builders and contractors this is often a mandatory requirement of service authorities, state and local governments when it comes to public works, buildings and roads.

WHAT ARE THE APPLICATIONS?

- » Topography (contours)
- » Services (Water, Sewer, Drainage, Communications and Electricity)
- » Roads, Kerbs, Bridges
- » Buildings, plant and infrastructure
- » Vegetation (species and type)
- » Volumes and Quantities
- » Aspect and Shadow
- » Flood and catchment analysis

WHEN SHOULD YOU REQUEST THIS SERVICE?

Depending on the complexity of a project, Land Solution Australia can be engaged before, during and after construction to ensure the greatest possible efficiency.

Requesting accurate spatial information before commencing the design phase of your project is highly recommended. This means the decisions that follow are accurate ones that will be easily replicated in the real world.

If there is a long lead time between design and construction it is often beneficial to check the current site information before you start building. Inaccurate or outdated information can be costly in terms of time and expense for rework by designers and builders if the design does not fit the physical site.

Surveys for compliance are undertaken after construction and serve a role both in risk management for a subsequent phase of construction and for maintenance of the asset on completion. When an asset is to be managed by others, it is often mandatory to perform a survey before a bond or certificate will be issued. Often these surveys are to an industry standard that only a professional surveyor can provide.

WHAT ARE THE ADVANTAGES

- » Remove duplication and cost at the design and construction phase
- » Gaining the greatest return from your asset, by maximising its potential
- » Accurate estimate of quantities to confirm project costing
- » Manage risk before, during and after construction
- » Reduced timeframes to meet compliance requirements

WHAT ARE THE LIMITATIONS

- » Lead time, plan your survey in advance to avoid duplication or delays.
- » Accuracy requirements; Ask your surveyor 'What is practical for my design application?', it may save time and cost.



For further information, please contact:

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