

Asset and Service Management

BCE Surveying offers probably the quickest, most accurate and cost-effective means of identifying, imaging and cataloguing assets and services, and using the information to efficiently manage them.

Applying a customised solution for each project, our skilled and experienced staff can build a complete inventory of assets, survey the condition of built and manufactured items, and create high impact flythroughs and VR models for a range of purposes.

These services are most often required by local government, mining and resource companies, and organisations as diverse as tree farms and water management departments.



BCE Survey has invested in leading edge technology that cuts time and cost, while providing vast quantities of useable data.



Asset and Service Management

Our Services

Using fixed and/or mobile scanners, the Asset and Service Management team at BCE Surveying can collect, extract and manipulate an enormous amount of data for use in the following:

- Asset identification for GIS/Management systems
- Information extraction and data manipulation
- Road furniture surveys
- Road and bridge condition assessments
- BIM
- Plant and HVAC modelling.
- Visual impact flythroughs and VR models
- Statutory compliance checking
- Vegetation volumes and plantation yields

Our Equipment

The pace of advancement in this area of surveying is phenomenal, and BCE has invested heavily to ensure that our surveying teams are equipped with the most reliable, accurate and competitive equipment available.

Our current equipment store includes:

- Trimble/Autodesk BIM & GIS systems
- Trimble MX8 Mobile Lidar
- Faro & Trimble 3D scanners
- Trimble S6 and R8 robotic total stations
- Trimble SPS930 series machine control robotic total stations
- Trimble Dini digital levels
- Trimble R8 GPS units

Our Computing Power

The key to extracting and utilising the vast amount of data collected by our site teams is to provide our office teams with the computing “grunt” to allow accessible data storage, and quality data manipulation software and hardware. The BCE Surveying computer facilities include:

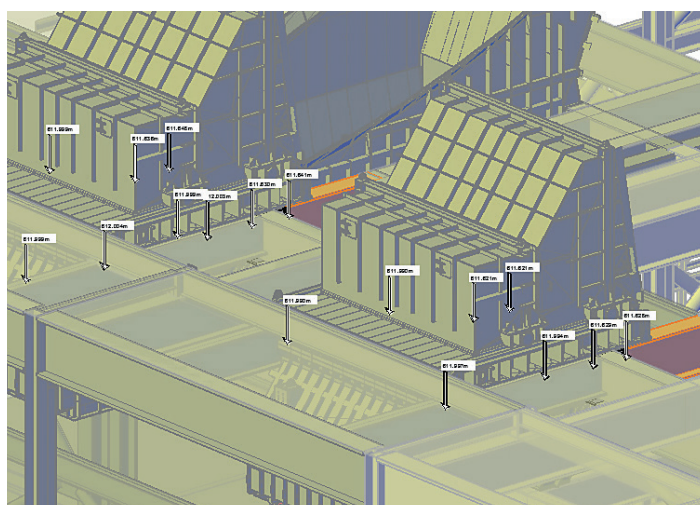
- Liscad
- Civilcad
- Autocad
- Trimble Business Centre



Licensed and Engineering Surveying Management

BCE Surveying is one of Western Australia's most experienced licensed and engineering surveying practitioners, with over two decades of successful projects across the state, and beyond.

Our highly experienced, qualified operators utilise the most up-to-date equipment to generate high quality data, and our capacity to understand and manipulate the raw findings is unsurpassed.



Certified to ISO 9001, our surveying and data management capabilities cover all aspects of the industry.



Licensed and Engineering Surveying Management

Our Services

BCE's clients in the resource, property, government and construction industries rely on BCE Surveying to provide the highest quality services in:

- Engineering and Construction setouts/control
- Earthworks modelling and volume calculations
- As-constructed surveys
- 3D DTM (Digital Terrain Modelling)
- Fixed and mobile 3D scanning using the fastest mobile surveying equipment in the state
- WCX Water Corp compliant as-constructed surveys
- Project management

Our Equipment

The surveying and associated equipment we use is the most sophisticated and up-to-date available. In licensed and engineering surveys the equipment we most commonly use includes:

- Trimble S6 and R8 robotic total stations
- Faro & Trimble 3D scanners
- Trimble SPS930 series machine control robotic total stations
- Trimble Dini digital levels
- Trimble R8 GPS units

Our Computing Power

BCE is a registered user of a range of highly regarded, state-of-the-art software and data management computer facilities. In licensed and engineering surveying applications, the software we use includes:

- Liscad
- Civilcad
- AutoDesk Infrastructure Design Suite
- Adobe Creative Suite
- Trimble Realworks

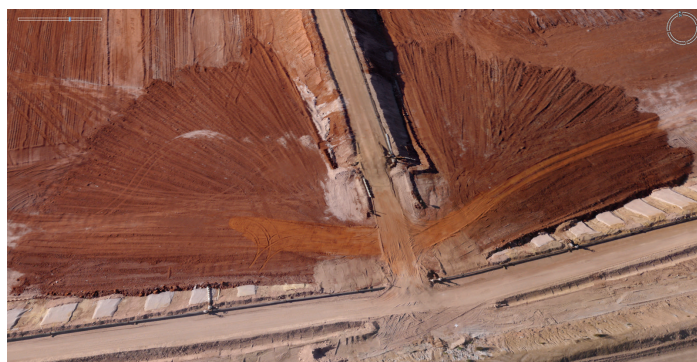


Infrastructure Imaging Services

Fixed and mobile 3D scanning for the purpose of infrastructure imaging is probably the fastest advancing sector of the surveying industry.

Primarily of use to public and private sector organisations involved in the planning, construction, maintenance and management of buildings and other infrastructure, the Infrastructure Imaging services offered by BCE Surveying are fast, accurate and safe, and in the hands of our widely experienced operators, very cost-effective.

Our client-focused business approach, and the ability of our teams to adapt to any conditions and project parameters, gives BCE Surveying a competitive edge in meeting your goals in Infrastructure Imaging.



Intelligent 3D content quickly and efficiently from laser scans for designers, fabricators, contractors and owners.

Infrastructure Imaging Services

Our Services

Using class-leading 3D scanning hardware and software, our skilled personnel can provide QA controlled services in Infrastructure Imaging in areas such as:

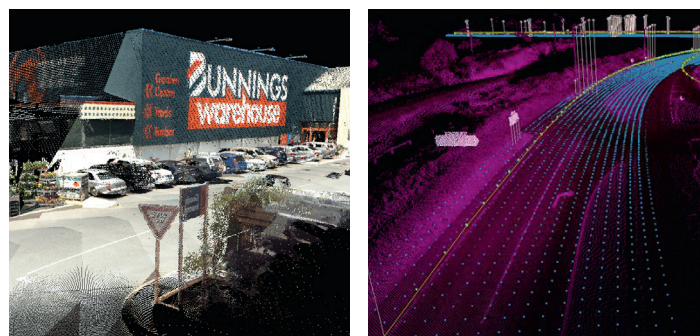
- Heritage infrastructure scanning
- GIS (Graphic Information Systems)
- Facilities Management (FM) requirements
- Visual Impact projects
- Topographic, Road, Utility and Network data extraction
- 3D and BIM model creation
- As-constructed scans and BIM modelling
- BIM construction setouts
- BIM management services
- 3D BIM model site surveys



Our Equipment

Our Infrastructure Imaging equipment is the fastest and most accurate available, and the hardware we use includes:

- Survey grade Trimble MX-8 mobile 3D scanner
- Trimble MX8 Mobile Lidar & Photography
- Trimble S6 and R8 robotic total stations
- Faro & Trimble 3D scanners
- Trimble SPS930 series machine control robotic total stations
- Trimble Dini digital levels
- Trimble R8 GPS units



Our Computing Power

Knowing how to properly extract and utilise the data obtained from Infrastructure Imaging is probably the most important part of the process, and the BCE Surveying team has access to the most practical and beneficial computing hardware and software, to expedite the process. Our computing power encompasses:

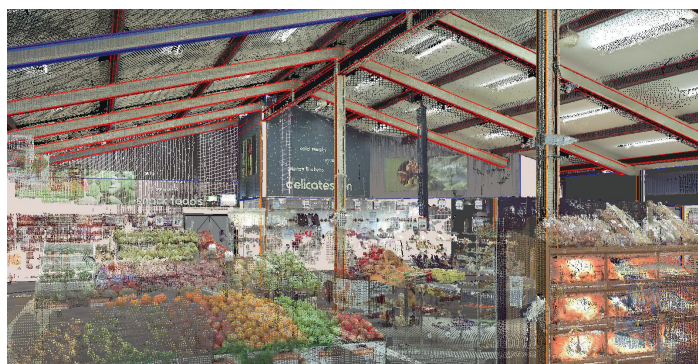
- Liscad
- Civilcad
- AutoDesk Infrastructure Design Suite
- Adobe Creative Suite
- Trimble Business Centre



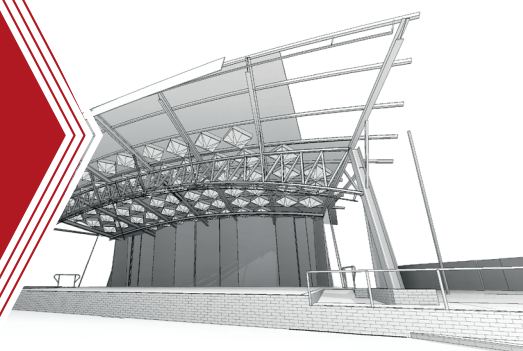
Building Information Modelling Services

Building Information Modelling gives architects, engineers, government and heritage workers, and investors and owners, access to a pleasing array of insights into the buildings they own, manage or are planning.

Flexible and scalable for projects of any size or complexity, the BCE Surveying BIM services combine superior data collection technology and techniques with state-of-the-art data management, manipulation and storage capabilities.



BCE Surveying has positioned itself to be a key player in BIM, Machine Guidance systems, Laser Scanning and 3D modelling.



Building Information Modelling Services

Our Services

Any situation that demands the creation of accurate, flexible and informative models can be undertaken by the BCE Surveying BIM team. Some of our services that have been called upon in the past include:

- BIM 3D scanning project integration
- BIM Site modelling
- BIM Architectural, MEP and plant modelling
- BIM content management and clash detection
- BIM Site control setout and verification
- As constructed BIM models.
- BIM Project Management

Our Equipment

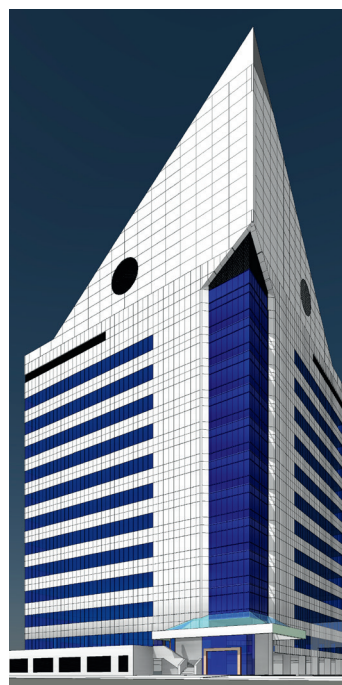
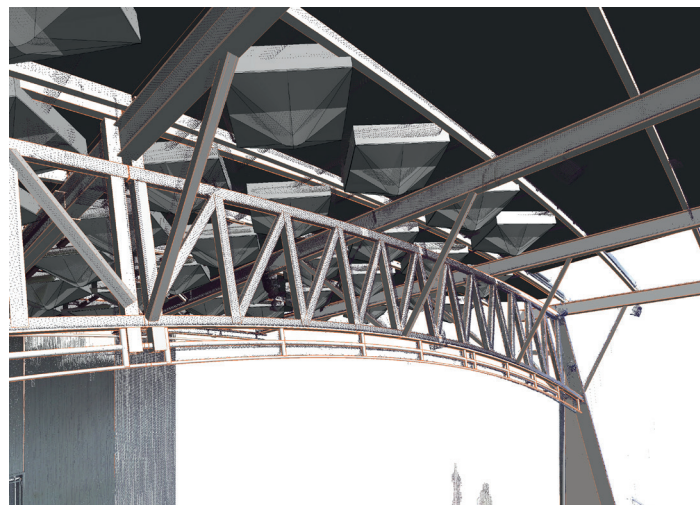
From scanning individual components to detailing entire suburban areas, the BCE Surveying site teams can deploy a wide range of leading edge surveying hardware, including:

- Trimble\Autodesk BIM & GIS systems
- Trimble MX8 Mobile Lidar
- Faro & Trimble 3D scanners
- Trimble S6 and S8 robotic total stations
- Trimble SPS930 series machine control robotic total stations
- Trimble Dini digital levels
- Trimble R8 GPS units

Our Computing Power

BCE has the capacity to obtain, manage and manipulate enormous volumes of data, and use it to generate incredibly useful, insightful models. The equipment we use to ensure that our BIM modeling is of the highest possible resolution and accuracy includes:

- Liscad
- Civilcad
- AutoDesk Infrastructure Design Suite
- Adobe Creative Suite
- Trimble Business Centre

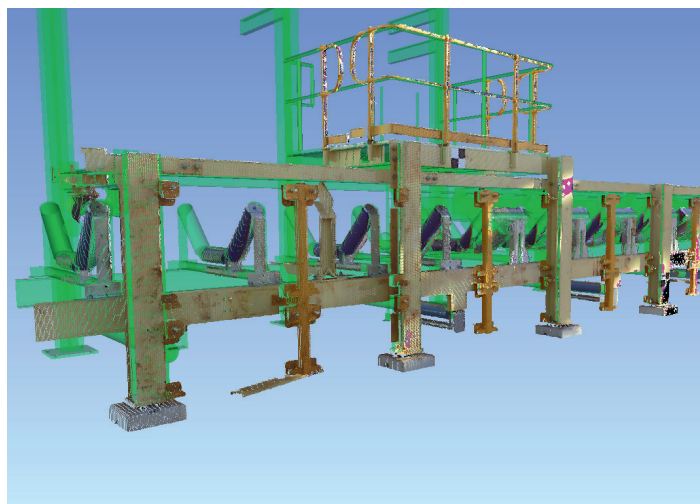


Facilities and Network Management

The Facilities and Network Management team at BCE Surveying provides a diverse array of services to clients in both the public and private sectors.

We cover everything from risk assessment and compliance checking, to damage examination and documentation, to planning for retrofit facility and plant upgrades, to infrastructure condition surveys.

Our ability to integrate disparate datasets allows clients to exploit the data more fully, and this is enhanced by our capacity to produce informative visual presentations. We are able to provide fully customised survey and data manipulation programs for any application, from pipeline and power management, to aerial photogrammetry, and BIM hazard monitoring.



BCE Surveying has contributed to some of the largest mining, construction and civil projects undertaken in Australia.

Facilities and Network Management

Our Services

Using fixed and/or mobile scanners, the Asset and Service Management team at BCE Surveying can collect, extract and manipulate an enormous amount of data for use in the following:

- 3D scanning for 'retrofit' FM and plant upgrades
- Pipeline and Powerline surveys
- BIM hazard, risk assessment and compliance checks
- Insurance damage assessment and monitoring
- Signage impact assessment
- Aerial photogrammetry
- DTM, GIS, BIM, and Plant data integration

Our Equipment

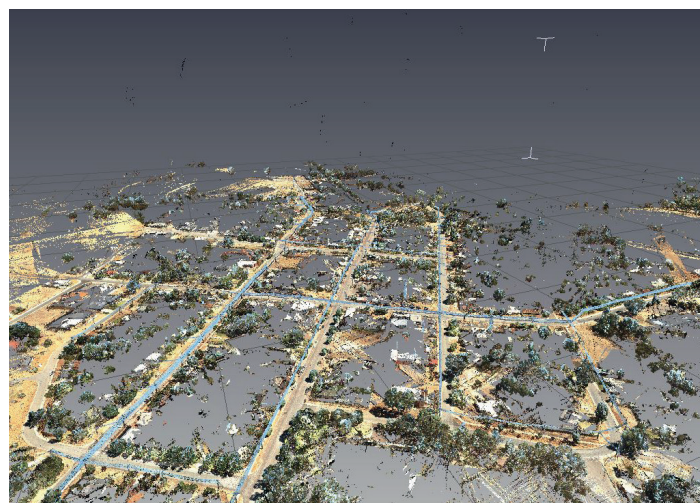
Depending on the project, the Facilities and Network Management team may call upon a number of BCE Surveying's high quality, state-of-the-art scanning and survey equipment, which may include:

- Trimble\Autodesk BIM & GIS systems
- Trimble MX8 Mobile Lidar
- Trimble S6 and R8 robotic total stations
- Faro & Trimble 3D scanners
- Trimble SPS930 series machine control robotic total stations
- Trimble Dini digital levels
- Trimble R8 GPS units

Our Computing Power

Our data management and manipulation capabilities are second to none, and BCE can use the powerful computing assets at its disposal to create finely detailed visuals and presentations, integrate disparate data from a range of sources, and store and manage vast amounts of data. Our network utilises hardware and software of the highest quality, including:

- Liscad
- Civilcad
- AutoDesk Infrastructure Design Suite
- Adobe Creative Suite
- Trimble Realworks
- Trimble Business Centre

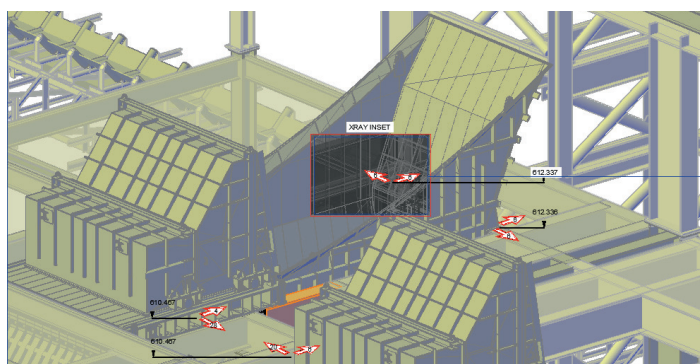


Construction Services

Our surveyors are accurate and disciplined, and they use only the highest quality equipment, including fixed and mobile scanners unavailable elsewhere in Western Australia.

Contractors, builders, fabricators and facility owners and managers typically deploy the BCE Construction Services surveying teams at all phases of a project, from planning through construction and assembly, and beyond to provide as-constructed data.

The information we provide and manage can significantly reduce project risk, streamline production and construction times, and provide valuable insight into the form of the final product.



Working with software developers like Trimble, our field and office operators are trained and up to date with fast-moving advances.



Construction Services

Our Services

The more complex the planned construction is, the more important it is to involve BCE Surveying from the earliest stages of planning. We work on a scale from whole of building to individual componentry, and our accuracy is the highest available. Our service to the construction industry include:

- Construction setouts
- System and machinery alignment
- As-constructed surveys and 3D scans
- Fabrication scans and 3D model creation
- BIM Clash detection and construction control
- BIM construction setouts

Our Equipment

Our construction survey technology covers both fixed and mobile scanners, and we employ quality state-of-the-art equipment including:

- Survey grade Trimble MX-8 mobile 3D scanner
- Trimble MX8 Mobile Lidar
- Trimble S6 and R8 robotic total stations
- Faro & Trimble 3D scanners
- Trimble SPS930 series machine control robotic total stations
- Trimble Dini digital levels
- Trimble R8 GPS units

Our Computing Power

The BCE Surveying Construction Services team has access to a wide range of hardware and software designed to provide high-level detail for planning and construction purposes, and the programs we use may include:

- Liscad
- Civilcad
- AutoDesk Revit
- Adobe Creative Suite
- Trimble Realworks
- Trimble Business Centre

