





About Intrax

Intrax Land is an innovative engineering and surveying practice that delivers outstanding projects in the built environment and across the industry.

We offer a full range of engineering and surveying services that together bring valuable contributions to both our clients and communities.

We operate nationwide with 11 offices and over 450 consultants, engineers, surveyors and designers.

Established in 2003 with a strong set of values, our encouragement for independent thinking and accountability shapes a unique collaborative culture where the best ideas flourish.

This is evident in all we do. Our teams strive to exceed clients' expectations from beginning to practical completion of any project.

Values Driven, People Oriented

Performance

Innovation

Respect

Leadership

Understanding



Geotechnical



Holistic Approach to Geotechnical Engineering Challenges

Expert geotechnical engineering consultation

Where there is an ambitious project, where there are complex ground conditions, where only innovative solutions will make the grade, Intrax come through to achieve success. This success is secured through a combination of the preparation, the design and the implementation of ground engineering techniques.

Managing Ground Risk

Intrax works only with the latest technology in the field, and supports this with sophisticated software solutions back at the office. This facilitates a highly precise and reliable service, delivered using state of the art geotechnical analysis techniques.

This helps us to minimise risk, all but eliminating wasted time and money through better planning, design, and construction.

NATA accredited Laboratory

Our facilities, methods and practices are NATA accredited, guaranteeing compliance with the highest industry standards.

Intrax Laboratories Victoria and NSW produces entirely independent NATA-accredited materials testing across a wide range of laboratory services for earthwork and civil engineering projects. We provide most of the AS1289 services.



Laboratory Testing Services

- Shrink Swell index
- Liquid limit – one point
- Liquid limit – four point
- Plastic limit
- Linear shrinkage
- Plasticity index
- Particle size distribution
- Moisture content
- Emerson class
- PH value of soil
- Modified compaction
- Standard compaction
- Sampling and preparation of soils
 - Disturbed samples for testing
 - Undisturbed
 - Disturbed
- Hilf density ratio and moisture variation
- Field density using portable Nuclear Gauge
- Compaction control test-density ratio, moisture variation and moisture ratio
- California bearing ratio

GEOTECHNICAL EXPERTISE

Services

- Site classifications in accordance with AS2870
- Salinity and Acid Sulphate Soil Assessments
- Land Capability Assessments
- Bushfire Management Statements
- Slope Stability/ Landslide Hazard Assessments
- Pavement Investigations/ Design / Circly Analysis
- Rock Coring
- Tight Access Drilling
- Concrete coring/cutting
- Site Inspections

Type of Projects

- Single and Multi-Level Basements
- Telecommunications towers
- Solar and Wind Farm Investigations
- Residential and Commercial Subdivisions
- Landfill Assessments and Earthworks Control
- Mixed use developments
- Mine subsidence

Sectors

- Transport
- Residential
- Land Development
- High-Rise & Commercial
- Industrial
- Energy
- Water & Utilities
- Defence
- Mining Open-Cut/Surface
- Environment and Conservation

Project Experience

- NEL/EW Project - CPB
- Garside Reserve Redevelopment, Granville - GreenCap
- Box Hill Apartment with 8 level Basement
- Haven Kyle Road Altona North Stocklands
- Kaufland Supermarket Due Diligence investigation in VIC, NSW, SA and QLD
- Stability assessment of Landfill Cap - NSW
- Landfill, Investigation Mitchell Lasry Quarry for tunnel spoil
- Macedon Ranges Sports Precinct
- Eagle Arthur's Seat Chairlift
- Peer Review of Portsea Surf Life Saving Club Redevelopment
- Landslide Risk Assessment and Geotechnical Investigation of Shopping Centre Monbulk Road Belgrave
- Barwon River Rowing Deck Pile Design Investigation
- Stones Vineyard Redevelopment





Surveying



Harnessing the power of modern technology
to bring you reliable surveying solutions

Informed Choices, Supported by Reliable Surveying

Project decisions must be based on profound levels of knowledge and understanding. To support this, we provide a full and thorough surveying service, combining analytic expertise and state of the art modelling techniques.

Experience Enhanced by Technology

In a highly technical field, agility and technological savvy are required. Our teams have years of industry experience to draw upon, but remain on the leading edge of the market in terms of methods, means and technology used.

Clients can rely upon us to precisely map and geolocate assets onsite, and to provide full service surveying solutions to your project.

The Utmost Precision in a Remarkable Time Frame

Our full service, end-to-end focus means that our clients can depend on Intrax as we deliver a complete and precise package in incredible time frames. A combination of speed, precision, innovation and professionalism has led to us becoming known as one of the most respected asset recording, asset management and surveying solutions providers in Australia.

Expertise

- Title Re-Establishment and Identification Survey
- Feature and Level Surveys
- Cadastral Surveying Consultancy
- Licenced Surveyors
- Building & Land Subdivisions Surveys
- Construction Surveying
- Infrastructure & Engineering Surveys
- Existing Conditions Surveying
- Asset Recording

Sectors

- Transportation
- Residential & Land Development
- Utilities & Infrastructure
- Defense
- Mining Open-Cut/Surface
- Environment and Conservation
- Hi-Rise & Commercial



Civil Expertise



Generating demonstrable economic and strategic value by solving a range of technical and organisational problems

Solutions with Strategic Value

The civil engineering solutions which Intrax provides are geared towards complex projects with a range of different requirements. Our understanding is key and a vital factor in the unfolding relationship we develop with our clients.

Holistic & Multidisciplinary Service

In completing a civil engineering project, Intrax draws upon the myriad skill and experience of its various departments, bringing these departments together to form a cohesive whole. Together, these departments take care of planning, organisation, resource management, and a comprehensive range of other project components with the same professional attitude and high level of confidence.

Project Management and Construction Supervision

By deploying a watertight strategy, we can reduce costs and delay by minimising the rework required on the project. With this framework in place, Intrax can begin guiding and managing aspects of the project to secure the desired outcomes within acceptable timeframes and budgetary constraints.



CIVIL EXPERTISE

Conceptual Stage Services

Planning requirements, services requirements, opportunities and constraints of a potential development site are analysed at the beginning of the civil design process. We consider carefully the following components in particular:

- Zoning
- Ecological constraints, such as endangered/protected vegetation and/or wildlife corridors.
- Geotechnical considerations such as (but not limited to) slip and acid sulphate soils.
- Bushfire
- Flooding
- Contamination
- Aboriginal sites of significance
- Heritage items
- Archaeological items
- Road widening and/or site access restrictions
- Acoustic requirements
- Location of existing public utilities
- Site specific strategic planning requirements, such as parkland and drainage reserves.

Lot Yield/ Development Plan Process

Zoning and associated planning requirements, along with market demand for the area, are used to determine lot sizes and road reserve widths.

With our clients' interests in mind, appropriate constraints are worked into the development of the lot yield plan where possible, such as providing bushfire Asset Protection Zones (APZ) within road reserves. We ensure constraints are made into advantages or features where possible, such as an Endangered Ecological Community (EEC) becoming a prominent feature of the development or being used to create some larger lots.

Planning

Application Process

Services at this stage include plans showing:

- Plan views of roads, stormwater facilities and public utility extensions.
- Longitudinal sections and cross sections of the roads.
- Sight distance checks where necessary to demonstrate the suitability of the horizontal and vertical alignments.
- Extent of earthworks.
- Location and indicative height of retaining walls.
- Footprint of proposed structures, if they form part of the application.
- If necessary, access to proposed structures.
- Initial calculations to size critical infrastructure, such as basins or drainage channels through the site, to allow them to be shown on the concept plans.
- If necessary, longitudinal sections of the proposed stormwater and sewage systems to demonstrate they will work.

Civil Construction plans and documentation

Applications for requirements will be submitted to the relevant public utility authorities.

Construction plans will be prepared by revising preliminary civil plans to address conditions in the planning permit/development consent. Requirements issued by the utility authorities are also addressed.

Intrax also organises or coordinates sub-consultant work to submit relevant construction applications, generally including requirements from.

- Councils
- Water Authorities
- Power Authorities
- NBN

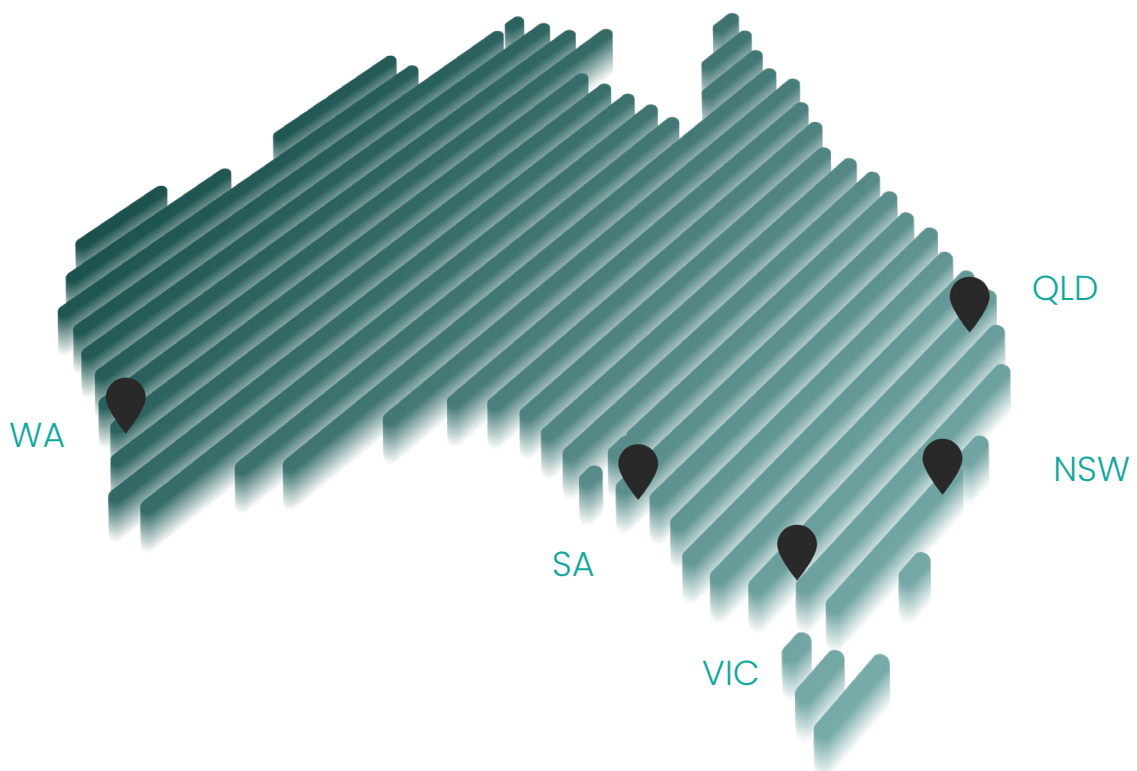
Construction Administration

During this stage we provide tender

- Preparation a Bill Of Quantities (BOQ)
- Preparation of contracts to standard contracts such as AS4000-1997
- Comparison and assessment of tenders
- Checking of construction milestone contractor claims;
- Reviews of variations
- Liaison with contractors for as-built documentation
- Ccoordination with councils until Notices of Arrangement (NoA) are issued
- Coordination with the surveyors for issue of titles

Our Locations

With 11 offices across the country we have a strong presence across Australia.





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