

*Watergardens Shopping Centre, Taylors Lakes (Retail)*



Cardno Grogan Richards has in recent years emerged as one of the largest and preferred structural consulting engineers in Melbourne. The expansion of this team to include Building Services was the logical next step.

**BUILDINGS**

**"Excellence in schematic and concept design is our first objective. To achieve an innovative, efficient end result for each project, we apply our broad knowledge base to investigate and document a range of building alternatives".** *Joe Bruno, Principal*

Our skills encompass the knowledgeable use of various building techniques during the design phase. The building teams are integrated to achieve the optimum "whole of building" engineering solution including:

- Complex analysis of lateral stability for multi level buildings
- Deep foundations including driven piles, cfa piles, and bored piers
- Complex vibration design for floors
- Retention systems for multi level basements, including soldier pier and shotcrete walls, precast walls, diaphragm walls and soil nailed walls
- Traditional reinforced concrete
- Post and prestressed concrete
- Steel framing
- Composite structures
- Timber framing
- Precast concrete walls and column elements
- Registered multi discipline building services engineering (civil, hydraulics, mechanical, fire & electrical)
- Green Star Accredited Ecological Sustainable Development Solutions (ESD)
- Accredited authority infrastructure services provider
- Licensed building services authority supervision
- Water Sensitive Urban Design Solutions (WSUD)
- Value building services engineering maximising opportunities, quality, buildability and optimisation of the building engineering to suit the client's brief to minimise risks and provide certainty in project delivery
- Performance based engineering solutions including siphonic roof drainage and modified fire protection services
- Building services coordination, statutory authority approvals, procurement strategies and construction management
- Water features and pool hydraulics

We have substantial experience in design and documentation of a wide range of private and public sector projects and assemble teams of experts covering all the key disciplines for:

- Retail
- Multiple level residential
- Office & commercial
- Industrial
- Health & education
- Sports & leisure
- Government & local authority
- Housing

**To continue our growth we are pleased to announce that the Cardno Grogan Richards structural and building services business units have merged into one group to become known as "Buildings".**

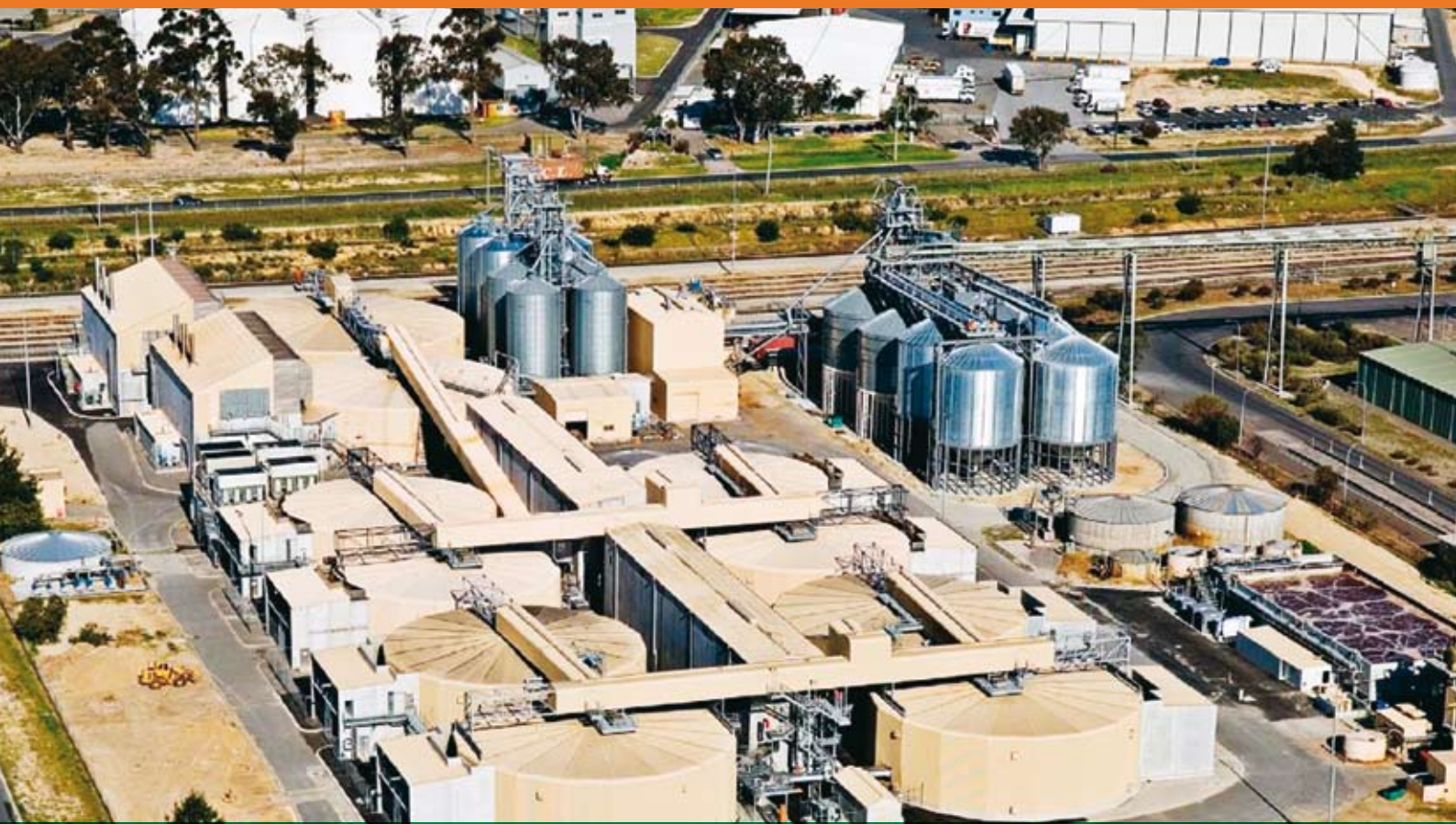
**This allows us to continue implementing our vision in providing professional and technical expertise that spans the entire spectrum of building design with an ecological sustainable focus.**



The merge of the two business units will provide quality and value to future projects as the integration between structural and services will be co-ordinated and maintained at every stage of the project lifecycle from inception to completion.

The core strengths of each team have been seamlessly merged into a single entity, providing technically advanced and well co-ordinated building solutions.





Joe White Maltings Plant (Project Echo),  
Perth, WA. (Industrial)

*ERA Apartments, Richmond  
(Multistorey Residential)*



*Virgin Active Health Club,  
140 Bourke St, Melbourne (Sports and Leisure)*



*Spotlight Lifestyle Centre,  
Market St, South Melbourne (Mixed Use)*



**Cardno  
Grogan Richards**

Shaping the Future

**Contact**

Melbourne  
150 Oxford Street  
COLLINGWOOD VIC 3066  
PH: (03) 8415 7777  
FAX: (03) 8415 7788

Your local Cardno office: 1300 782 171  
[www.cardnogroganrichards.com.au](http://www.cardnogroganrichards.com.au)

**PRINCIPALS**

Tony Growse  
Anthony Snyders  
Joe Bruno

**ASSOCIATE**

Lakei Varveris  
Frank Arcuri  
Marcus Philipsen