

## Maltings Plant, Perth



### Location

Forreestfield, Perth, Australia

### Client

Joe White Maltings Ltd

### Project Value

AUD\$30.0 Million

### Office Responsible

Cardno Grogan Richards

### Responsibilities

Structural, Civil, Hydraulic and Traffic Engineering

### Contact

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### Project Scope

The Joe White Maltings Plant in Forreestfield, Perth, incorporated the latest technology available to the industry. The Malting site is located adjacent to the Western Australia Co-operative Bulk Handlings (C.B.H.) new grain store facility .

Joe White Maltings access barley from the C.B.H. site, process the grain to malt and return the product to them for distribution.

Cardno Grogan Richards provided a full multi discipline engineering service on this project and acted as principal consultants, working closely with the technical officers of Joe White Maltings.

During the design stage, many alternatives were examined to ensure that the process, equipment selection and materials used were to world best standard and most importantly that the project did not exceed the budget.

C.B.H. and Joe White Maltings both commenced construction at the same time, on land that was previously railway marshalling yards, released by the government for an industrial subdivision.

Cardno Grogan Richards provided a civil engineering solution for the site to accommodate the internal road layout and discharge of storm water across a very flat site. The site drainage system

incorporated an on-site retarding basin and open grassed swails to minimise costs.

Cardno Grogan Richards also designed the hydraulic services for the site; including water reticulation, fire, waste water and sewerage collection systems.

The structural design presented a significant challenge, considering that the building structures were process vessels that were required to sustain large static loads, as well as a range of operating temperatures, requiring careful detailing for expansion and contraction.

Transportation of grain throughout the site was achieved via a series of carefully integrated conveyors, which were supported by clear span trusses and gantries. Aerial access was provided through a series of access ladders and elevated walkways.