



## STRUCTURAL ENGINEERING

ACCURATE • PRACTICAL • PROFESSIONAL

1<sup>st</sup> August, 2006

Hello,

In our February mailing we asked you the question:

*'How do you remove columns from an existing portal frame building – especially two columns in a row?  
And, how do you do this when they support crane rails?'*

Well, the answer is revealed to you in this month's Feature Project. Yes, it's the long awaited industrial building upgrade / refurbishment we've been wanting to share with you. The results are attached and will also be available for viewing on our website.

We hope you enjoy this review and certainly look forward to working with you on your projects in the very near future. And, as always, thank you for your ongoing support and if we can be of any assistance, please feel free to call us.

Regards,

A handwritten signature in black ink, appearing to read "F. Simone", positioned to the left of a vertical red line.

Frank Simone  
Managing Director

PS: We're happy to also enclose for your interest an overview of our Current Projects.

# Feature Project - August 2006

## Industrial Building Upgrade

**Location:** Campbelltown

*Type: Industrial*

### *Key Objectives*

- Modernisation of 1970's poorly maintained building
- Modifications to the existing building including removing portal columns, installing large trusses around the new manufacturing machinery
- Verifying the adequacy of structural steel frames, bracing and the remainder of the structure including footings
- Providing the basis for a work method statement and working load limit for the building



### *Challenges*

- Designing 18 metre trusses able to carry crane loads
- Cut existing portal frame columns out and suitably redesign structural frame
- Checking the existing building to make sure it can cope with the new working conditions and loads
- Finding out that the footings may not cope with our loads



### *Siga Solutions*

- Determining the client's requirements regarding loads, machinery, production and crane load needs
- Making sure the truss details were available for the work crew to manufacture and erect
- Co-ordinate & liaise for truss installation with footing upgrade requirements
- Specify a strategy for footing upgrades / in service testing as a result of site findings
- Working with client to ensure building structural adequacy will be verified by the time the workshop will be in full operation

# Siga

## Current Projects



### Taren Point

#### *Industrial Building*

Can you picture a 65m x 43m new building on this site? Construction to begin soon.



### Lugarno

#### *Residential Building*

The old house behind the tree and the carport are going. The new residence will look similar to the house on the right.



### Windsor

#### *Residential Building*

Geoff is looking forward to one of his jobs finally featuring as our main project!



### Ingleburn

#### *Industrial Building*

Can you see the headaches that the CC (construction certificate) caused in this photo? Soon to be a Feature Project.