

## Sandgate Avenue Flood Alleviation Project – Stage 1

### Date

December 2009 to April 2010

### Location

Frankston, Victoria

### Project Value

\$41M

### Awards

Honourable Mention – 2011 Civil Contractors Federation Earth Awards

### Project Description

The Sandgate Stage 1 Project involved constructing an underground drainage pipeline from Monash University (Mornington Campus) to an outlet structure at Kananook Creek. This underground drainage utilised a 3-metre diameter Tunnel Boring Machine and was performed as part of the Pipelines Alliance and done in conjunction with Winslow Tunnelling group.

### Quality & Functionality

Despite significant floods at the site and changes requested prior to completion negotiated between the property owner and the Client the project was successfully delivered under budget, and only three weeks behind schedule.

The project met all functional requirements and quality aspects required by the Client, Reinstatement was to the satisfaction of all private property owners within the zone of influence.

### Schedule and Project Planning

Managing a construction site with difficult access within private property presented a number of potential concerns, which required dedicated co-ordination, and control of

suppliers, site personnel, and subcontractors to ensure that the works were successfully completed. A major key to achieving such a positive project outcome was the daily communication with the property owner.

### Stakeholder Management

The relationship developed with Frankston City Council during the design and planning phase was beneficial in obtaining an area within the adjacent parkland for the site compound during the construction phase.

The close relationship of site staff with the property owner allowed issues to be resolved quickly and allowed for longer working hours to reduce the length of the project. The Teams' commitment in providing the best possible outcome and its understanding of the needs of stakeholders was instrumental in firstly identifying, and then the success of these particular items.

### Environmental Management

Due to the difficult and narrow access, entrance procedures were developed to strictly control access of personnel and management of deliveries. This approach resulted in a safer worker environment, with no damaged property requiring rectification costs.

Due to a good relationship with the property owner, soil was utilised on site, and thus required no removal or testing.

Flooding occurred over the summer of 2010. This was carefully managed and caused minimal disruption to the site, it was able to dewater and quickly recovered back to normal production.



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