



LAVERTON RAILWAY UPGRADE

ON TRACK & ON TIME

The completion of the Laverton Rail upgrade has provided much needed infrastructure to improve the reliability of Werribee Line Services in Victoria. The project was jointly delivered by John Holland and Metro Trains Melbourne.

John Holland was responsible for construction on the project, which focused primarily on the new platform and footbridge. The new footbridge, which includes lifts, now provides better access to the station, especially considering the number of users which is increasing each year.

The Laverton Rail Upgrade was spread over two years and cost in excess of \$90 million. Additional benefits of the upgrade include extra CCTV cameras and lighting to improve passenger safety along

with a further 400 car spaces on the northern side of the station. Laverton Rail users will also benefit from the new rail bridge that was constructed over Merton Street, and an extra kilometre of railway track between Laverton Station and the Altona Loop Junction. Removing an existing major bottleneck in the rail network.

Along with additional services being introduced on the Werribee line, the Laverton Rail upgrade will allow Werribee and Geelong trains to run more effectively.

John Holland has a long history of working in the rail industry covering many areas such as design, track construction, light rail, railway bridges and more.

Working on a live railway network requires experienced and committed contractors. John Holland proved to have the necessary expertise in the industry ensuring the safety of their staff at all times and completing the Laverton Rail project ahead of schedule.

Committed to providing Australia with the most diverse contracting services, John Holland recognises the importance of achieving long term relationships with industry partners.

John Holland has noticed a significant growth in the rail industry and in response has adapted sound and reliable technology focused on the rail industry. With safety a major factor, especially when working in the rail industry, John Holland has developed a culture within their workplace that ensures safety is a top priority among all staff and contractors.

Communication and diversity are also key factors in John Holland's success. Devoted to continuous growth within their industry, John

Holland strives to keep up with market trends and adapts to all areas allowing them to increase their portfolio while offering their clients a diverse range of services.

John Holland has grown from strength to strength and now employs more than 5,000 people across Australia. Their expertise now stretches beyond the traditional civil engineering and construction markets. They have industry leading skills and award winning teams in the telecommunications, power, roads, services, aviation engineering, water, mining, services, rail, tunnelling and Energy & Resources fields.

Good environmental practice is a core component at John Holland where green building and renewable energy is considered on all projects.

John Hollands dedicated rail team is involved in numerous projects across Australia seeing the continuous improvement of Australian Rail networks. Their range of capabilities allows them to effectively and efficiently deliver industry-leading projects to their clients and stakeholders.

From site supervisors and graduate engineers through to IT support personnel and employee relations managers, John Holland has a full spectrum of skills amongst its team members. They see people as their greatest resource and pride themselves on being a market leader in workplace safety, targeted training, career development, staff benefits and remuneration.

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MAIN CONSTRUCTION COMPANY : John Holland
CLIENT : VIC Government
PROJECT MANAGER : Department of Transport
PROJECT END VALUE : \$92.6 Million
COMPLETION : October 2010
ENGINEER (STRUCTURAL / CIVIL) : KBR
SURVEYOR : RE & LM Gertzel



Safeworking Solutions

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SAFETY FIRST



Above: Middleborough Road overhead bridge construction.



Right: Bridge installation.

Company History

Over the past twenty years, there have been significant ongoing changes in the rail industry. Safeworking Solutions found a niche offering a premium service, nearly lost in the privatization process, built on the experience and contacts of dedicated staff.

We have demonstrated the capacity to operate as effective team members, often under the most difficult and challenging circumstances proving to be of great value on most of the construction and maintenance activities, on the Suburban and Regional Victorian rail network since 1998.

Mission Statement

To provide clients a safe and efficient work environment, on rail reserves, with minimum impact on train running by:

- Implementing historically proven, good work practices updated with systemic management principles.
- Being valued partners demonstrating competency and understanding of the safety principles required to complete any task we never compromise integrity or standards.
- Maintaining a premium standard through a period of constant change in the industry.
- A simple, industrially sound, structured workforce able to expand, contract and respond to the needs of the industry as they arise.

Don't take the risk, use Safeworking Solutions

What we do is safely run revenue trains through and around our worksites. A task loaded with obvious risk from a safety and financial perspective. Regulating authorities and prime contractors, see in our work the greatest amount of skill and diligence. Don't be a source of constant irritation to regulating authorities with incidents and safety investigations that have the potential to blow the budget on your project. We are responsible and insured; delays to train services, or worse, death or serious injury is a type of failure that is never an option for us.

If you are going to work in the rail environment, to have the necessary control of your workplace and to ensure a favourable outcome, you will need to understand and manage the Safeworking aspects of your job. With us, Safeworking Solutions, as a part of your team we allow you the client to understand the constraints and opportunities of working within the potentially dangerous rail environment and thereby manage your job effectively and safely.

Safeworking Solution Training are a Metro Approved provider of Level 1 Train Track Awareness Training. They provide a One-Stop-Shop with required medicals done at the time of training so you can access the Rail Corridor without delays. We can even do our training on-site with prior arrangement. Contact us now to discuss your Safeworking and Training needs on 1300 720 934.

The Laverton Rail project is now complete and offers a safe, efficient and user-friendly design. The upgrade has enabled additional rail passenger services to be introduced on the Werribee line. Commuters will significantly benefit from the improvements at Laverton Station, which include approximately 400 new parking spaces, a new platform and pedestrian footbridge.

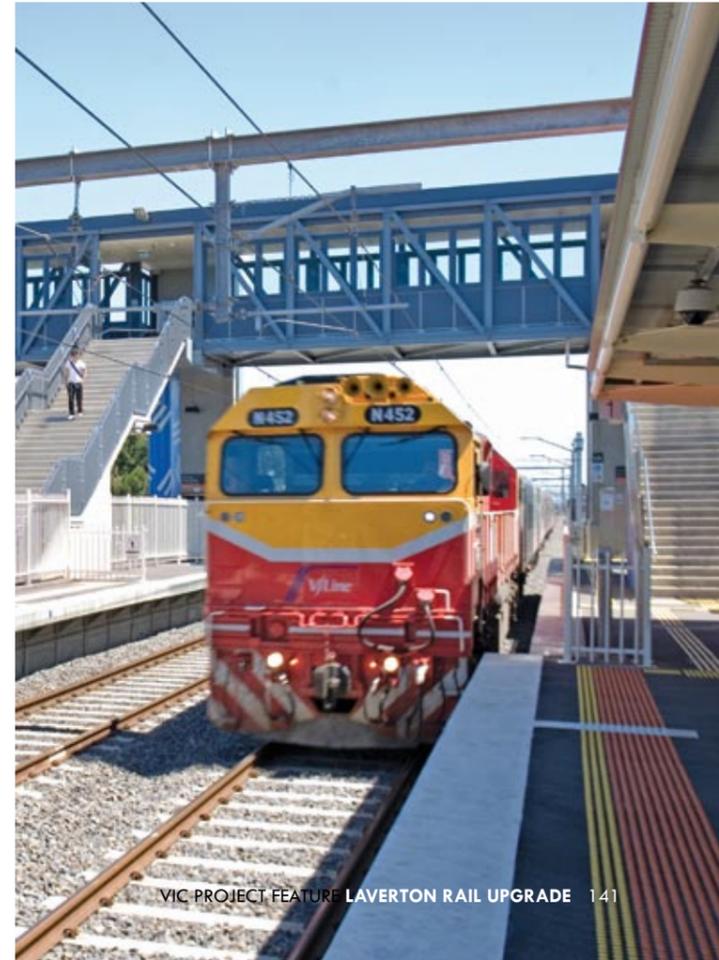
Upgrades being carried out on and around a live rail network presented substantial safety issues. This is where Safeworking Solutions came into play. With a long history of providing specialist advice and rail safety to contractors, Safeworking Solutions coordinated and applied a large variety of techniques across the various work sites. The focus was to rebuild Laverton Station while applying minimal impact to live trains and the public during works.

Some of the techniques Safeworking Solutions implemented and controlled included:

- Lookout Protection, which involved lookouts strategically placed to adequately reduce risks associated with limited train viewing.
- Strenuous planning and communication with train controllers and the entire project team in order to optimise working time on the live rail corridor and generate as much on track time as possible for civil works to occur.
- Track occupations, which involved shutting the line down for major works to be undertaken while following a tightly planned program schedule along with isolating the electrical services and issuing of permits (P.T.W's) to Safeworking staff.
- Permit to foul, which involves taking out a permit to foul the line when track occupations were in place and monitoring multiple work groups safely while on the rail corridor.
- Full track protection which allowed for works to be carried out in the danger zone of live train running services while ensuring the work groups were given the safest work environment possible.
- Applying on the spot, Accredited Track Awareness Training, insuring that L1 tickets/medicals were issued on short notice due to high demand of personal working on the project.

Since privatisation of the Victorian Rail Network in 1998 the door has been open for contractors to provide maintenance and construction activities across the rail network. Safeworking Solutions has been at the forefront of providing the services necessary for companies to work safely in this type of environment.

What may appear to be a complex work environment is simply an opportunity for Safeworking Solutions to share their rail operating expertise.





ROCK SOLID RESULTS

Working alongside the John Holland Group, Langdon Contractors recently finished their work on the Laverton Rail upgrade in Victoria.

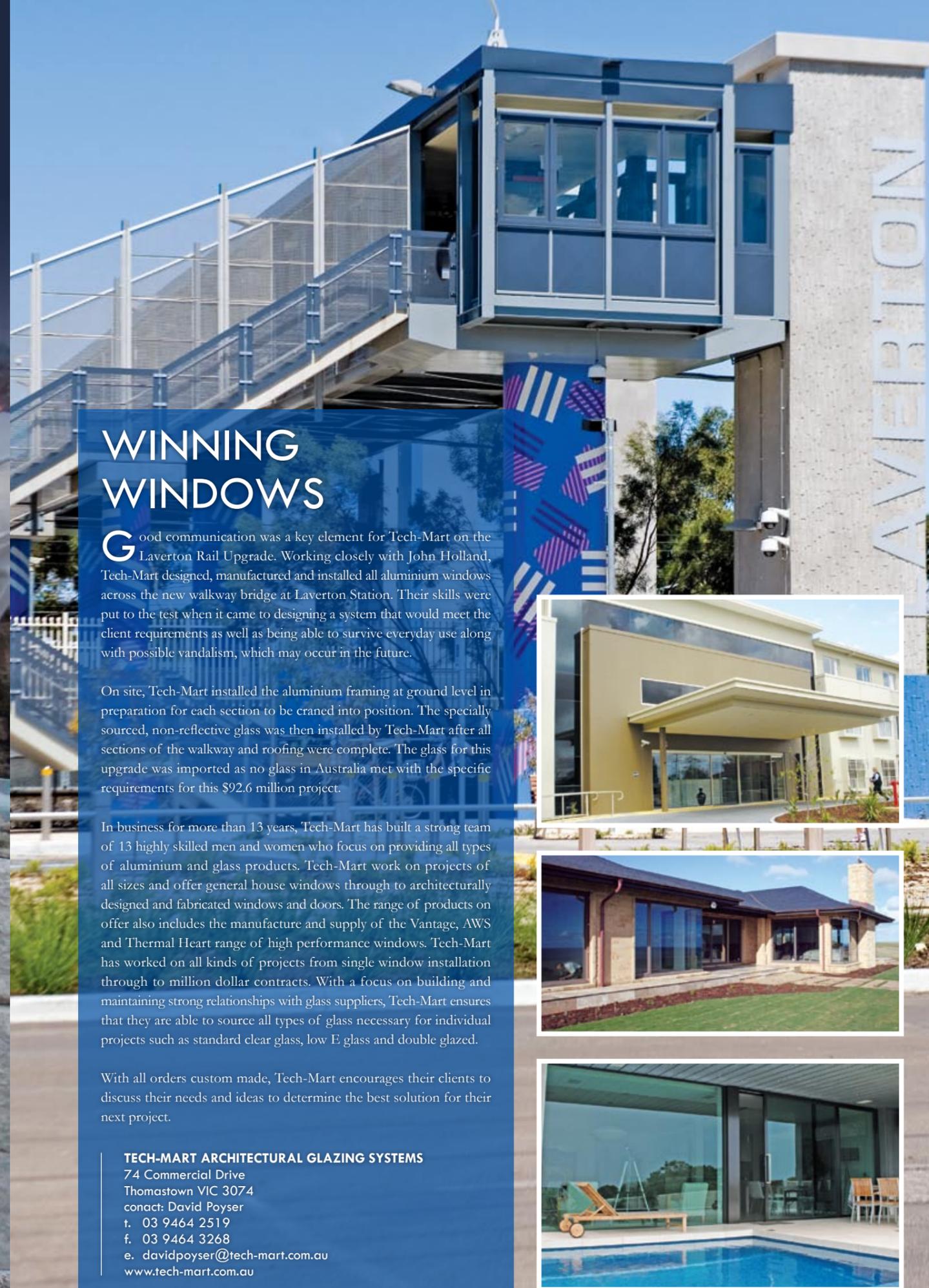
Providing all masonry and retaining walls for this project saw Langdon Contractors focusing on constructing the most appropriate wall types within a strict budget. Langdon Contractors worked hard cutting through existing rock wall foundations and the finished product was an effective, eye catching result.

Working on a live rail site was at times challenging, but the years of expertise held by Langdon Contractors saw them complete the project with precision and ease. Trains passed through the site at speeds of 100kph and sound OH&S procedures were a high priority for Langdon Contractors and their staff. Effective earmuffs were an essential requirement for this project.

Langdon Contractors is an Australian company who have supplied structural masonry and associated works to many of Australia's leading civil and construction companies.



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WINNING WINDOWS

Good communication was a key element for Tech-Mart on the Laverton Rail Upgrade. Working closely with John Holland, Tech-Mart designed, manufactured and installed all aluminium windows across the new walkway bridge at Laverton Station. Their skills were put to the test when it came to designing a system that would meet the client requirements as well as being able to survive everyday use along with possible vandalism, which may occur in the future.

On site, Tech-Mart installed the aluminium framing at ground level in preparation for each section to be craned into position. The specially sourced, non-reflective glass was then installed by Tech-Mart after all sections of the walkway and roofing were complete. The glass for this upgrade was imported as no glass in Australia met with the specific requirements for this \$92.6 million project.

In business for more than 13 years, Tech-Mart has built a strong team of 13 highly skilled men and women who focus on providing all types of aluminium and glass products. Tech-Mart work on projects of all sizes and offer general house windows through to architecturally designed and fabricated windows and doors. The range of products on offer also includes the manufacture and supply of the Vantage, AWS and Thermal Heart range of high performance windows. Tech-Mart has worked on all kinds of projects from single window installation through to million dollar contracts. With a focus on building and maintaining strong relationships with glass suppliers, Tech-Mart ensures that they are able to source all types of glass necessary for individual projects such as standard clear glass, low E glass and double glazed.

With all orders custom made, Tech-Mart encourages their clients to discuss their needs and ideas to determine the best solution for their next project.

TECH-MART ARCHITECTURAL GLAZING SYSTEMS

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