

# HUME HIGHWAY WIDENING

## A PROFESSIONAL TOUCH

MAIN CONSTRUCTION COMPANIES : Nace Civil Engineering  
CLIENT : The Roads and Traffic Authority  
PROJECT MANAGER : Steven Tinellis  
PROJECT END VALUE : \$90 Million  
COMPLETION : December 2011

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The upgrade to the Hume Highway is set to benefit both the local community and long distance travellers. The Hume Highway extends south from the M5/M7 interchange at Prestons. Nace Civil Engineering commenced work on the project in 2009 and worked on the widening of an 11 kilometre section of the freeway between Brooks Road, Ingleburn and Narellan Road. In addition to widening, the project also incorporated a northbound on-ramp from Raby Road to the F5, an improved exit ramp to Campbelltown Road and a pedestrian bridge between Claymore and Woodbine.

Nace Civil Engineering focused on providing first class traffic management and staging the works to ensure minimal interruption to traffic flow. They used over 10km of concrete barriers with access gates to ensure the temporary traffic staging was effective.

The capability to handle such a complex project was projected through Nace Civil Engineering's utilisation of their own asphalt plant and paving crew which saw over 200,000 tonne of asphalt paved. This was one of the largest asphalt projects undertaken in Sydney in recent times. Nace Civil Engineering also batched their own concrete from a mobileplant that was set up behind the site in the compound area. Their concrete batch plant has produced in excess of 50,000m<sup>3</sup> of concrete.

The professional engineering team of Nace Civil Engineering ensures high quality construction works to budget and on time. On the Hume Highway project they managed and operated the majority of plant and materials for the project. They were also responsible for building all pavement layers, supplying and installing all asphalt, batching most of the lean mix concrete, conducting all profiling and managing the entire scope of work.

The upgrade to the Hume Highway is set to improve travel times for all users and also provide a better experience with improved road surfacing. The extra lanes will see improved traffic flow and ease traffic congestion. Road safety has also been enhanced with improvements to safety barriers, a new pedestrian and cyclist bridge and improved cyclist facilities.

Nace Civil Engineering was involved in the entire works which also included the provision for erosion and sedimentation control, traffic control and diversion, earthworks, surface and sub-surface drainage works, installation of new road furnishings, temporary cyclist detour, noise walls and adjustment of utility services where necessary. Revegetation and landscaping were also required throughout the project along with the clean up and restoration of the site upon completion.

Nace Civil Engineering has gained a reputation as being a 'Contractor of Choice' with many clients. Their company structure allows them to handle complex projects whilst still providing a personalised service with attention to even the smallest details.

Nace Civil Engineering forms part of the Kypreos Group of Companies and has many capabilities in constructions such as road, bridges, railways, airfields, marine works, bulk earthworks, subdivisions and more.

With such a broad range of services, Nace Civil Engineering is able to offer complete delivery of projects from start to finish.



# STRENGTH IN BARRIERS

Trade West Pty Ltd is a design and construction company specialising in acoustic barriers and safety screens. Their involvement in the Hume Highway upgrade was to provide over 1.70 kilometres of CSR Hebel noise barrier for use on the project.

With a commitment to providing superior results within their industry, Trade West Pty Ltd produce a range of architectural finishing options to their products. The range of noise barrier types designed by Trade West Pty Ltd, include the following:

## 1. CSR Hebel – AAC Panels

The CSR Hebel lightweight AAC panel is a highly effective acoustic barrier system which is used extensively in NSW, to produce significant reductions in noise levels such as those emanating from roads, freeways and rail corridors. The CSR Hebel panel can now be routed to include architectural patterns.

## 2. Plexiglas (Acrylic)

Plexiglas acrylic noise barriers are an effective solution that uses transparent material to mitigate noise levels whilst maintaining visibility.

## 3. Pre Cast Concrete

Precast Concrete panels are also a very effective means of mitigating noise levels, and can also have architectural patterns and colours cast in to the panel.

## 4. Safety Screens

Steel mesh safety screens are now a standard requirement in road and rail bridge construction, and the supply, fabrication and installation of this product is now available through Trade West Pty Ltd.

## 5. Repairs

Trade West Pty Ltd also provides the service of repairs to damaged noise barriers.

The team at Trade West Pty Ltd has over 20 years experience. Their staff and contractors adhere to a strict OHS&R system which has been documented in accordance with Workcover NSW guidelines, and all work is undertaken using their in house quality management system.



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Spread over 3 stages in order to minimise disruption to motorists, the Hume Highway widening in New South Wales was completed by a team of experts. With a focus on electrical infrastructure and design, SimpleX Engineering Services worked closely with Nace Civil Engineering.

Stage 1 and Sage 2 of the project saw road widening to four lanes in two areas, Brooks Road and St Andrews Road and St Andrews Road and Raby Road. Stage 3 allowed for widening to three lanes between Raby Road and Narellan Road.

The purpose of the Hume Highway project is to improve access to the F5 Freeway at Campbelltown and Raby Roads and construction of a new pedestrian bridge between Claymore and Woodbine. The construction of the new pedestrian bridge provides safe access for pedestrians and cyclists over the freeway. Campbelltown City Council were involved in the design and construction of pedestrian paths and lighting. The New South Wales and Australian governments provided funding.

SimpleX Engineering Services have shown a continued commitment to delivering long-term, cost-effective, high quality and environmentally responsible outcomes for their clients while maintaining a safe and healthy work environment.

SimpleX Engineering Services have been providing specialist services in engineering since 1996. Registered as a Level 3 Accredited Service provider with the Department of Fair Trading NSW, SimpleX Engineering Services provides a sophisticated Ausgrid, Endeavour Energy and Essential Energy Level 3 electrical infrastructure design for both the private and public sectors.

Made up of talented industry professionals dedicated to giving their clients cutting edge solutions, SimpleX Engineering Services will deliver outstanding results for your next project.

# A JOB WELL DONE

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