

# LAWSON ALLIANCE DELIVERING WOODFORD TO HAZELBROOK



MAIN CONSTRUCTION COMPANY : Lend Lease  
 CONSTRUCTION VALUE : \$220 million  
 COMPLETION DATE : Mid-2014

Woodford To Hazelbrook includes widening the highway to a four lane divided road, with a centre median and shoulders to provide quicker travel times & Improved local access.

The Great Western Highway is a 210 kilometre roadway linking Sydney to Bathurst in the NSW Central West. Funded by the State and Federal Governments, the Blue Mountains upgrade of the Great Western Highway involves widening the roadway to four lanes between Emu Plains and Katoomba and undertaking safety improvements between Katoomba and Mount Victoria. The upgrade was commissioned to improve travel times for motorists and provide a safer road environment for motorists, pedestrians and cyclists.

The Woodford to Hazelbrook section of the Great Western Highway upgrade is being delivered by the Lawson Alliance, comprising

Roads and Maritime Services (RMS), Lend Lease and Sinclair Knight Merz (SKM) as the Alliance partners and URS as the designer.

“In August 2013 Abigroup and Baulderstone integrated into their parent company, Lend Lease. So while we joined the Lawson Alliance as Abigroup, we are now finishing the work under the Lend Lease brand,” said Alliance Manager Paul Cejka.

### WOODFORD TO HAZELBROOK

After completing two earlier stages of the upgrade, The Lawson Alliance was approached to complete the Woodford to Hazelbrook (W2H) upgrade when the original contractor

departed the project. Work commenced in Sept 2012 to widen 3.2km of existing highway between Winbourne Road, Hazelbrook and Station Street, Woodford to a four lane, divided road.

### PROJECT FEATURES

“In addition to widening the existing highway we also installed a concrete centre median strip and added shoulders to the roadway on both sides of the highway. An off-road pedestrian and service road path connected with pathways built in earlier stages of the project. The local railway station and shopping centre were connected with a new pedestrian bridge at Winbourne Road and

local traffic entering from side roads are catered for with new protected centre bays at Clearview Parade, Park Road and Woodford Avenue. Full size bus stop bays were created and the full length of the project will be landscaped before the project is completed.

“A full stormwater system has been installed, including water detention basins. In fact managing rainwater run off during the delivery of the project was a key environmental consideration during the project,” said Paul.

### CHALLENGES & INNOVATIONS

According to the RMS, about 24,000 vehicles a day travel on this section of the highway. Heavy vehicles make up about 12 per cent of the traffic with more than half the road freight transport between the central west and Sydney using the Great Western Highway.

“Maintaining traffic flow and minimising disruption for local residents continues to be a daily consideration,” said Paul. The narrow road corridor means there is no room for stockpiling materials and the close proximity of the worksite to local residents means strict limitations for construction hours and vibration.

“Vibration monitoring, control of dust and the management of site water were important not only because of how close the site was to local homes, but also because of the proximity to the Blue Mountains National Park,” said Paul.

The route is also historically significant to both Indigenous Australians and early settlers, so heritage items were documented as they were uncovered during the works.

“From a technical perspective, we also had climatic considerations on this project. In winter we needed to adjust the concrete mix temperature so we could continue concrete placement when the temperature dropped. In summer, dust control became a factor in hot and windy weather,” said Paul.

### LTI FREE

“A key achievement on the W2H upgrade was the implementation of the Lend Lease Incident and Injury Free system, which contributed to a best result achieved during 2013 of 415 work days with no lost time for injury (LTI),” said Paul. “We developed a plan for the site’s journey to becoming Incident and Injury Free and encouraged all of the work groups on the project to provide feedback on how we could achieve the goal of remaining at zero LTI,” he said. Work is currently expected to be completed in July 2014.

For more information contact Lend Lease, website [www.lendlease.com.au](http://www.lendlease.com.au)





Project: St John of God Hospital, Geelong, Victoria



Project: Bendigo Hospital Project, Bendigo, Victoria (STH+Bates Smart)



Project: Box Hill Hospital Redevelopment, Box Hill, Victoria (STH+Jackson Architecture)



Project: Gold Coast University Hospital, Southport, Queensland (STH+PDT+HASSELL)

## RELIABILITY, SERVICE AND SAFETY

With a focus on providing quality crane services, a quick response and maximum value, DJ Adair Crane Services Pty Ltd has earned a solid reputation within the construction industry for reliability, service and safety.

Established in 1987, DJ Adair Crane Services was founded by its Managing Director Danny Adair who has almost 30 years of experience in the industry.

This family-run company has evolved from having one 10-tonne crane to an impressive and diverse fleet of cranes ranging from eight tonnes to 300 tonnes. Its fleet includes Franna cranes, truck cranes, city cranes, all-terrain cranes and crawler cranes.

DJ Adair Crane Services worked as part hire on the Woodford to Hazelbrook upgrade, completing parts of the construction, including power poles and general lifting. Up to seven staff worked on the project, which Danny said went smoothly.

Operating 24 hours, seven days a week, DJ Adair Crane Services offers a range of works to its clients. This includes shutdowns, highway

maintenance and construction, railway maintenance, civil works, commercial, industrial and residential developments and more. It also provides free on site inspections as well as comprehensive lift planning.

DJ Adair Crane Services has been involved in a number of major constructions over the years. These projects include the M2 Motorway Upgrade, Port Botany expansion, noise wall installation for the M2 and M7 Motorways, Chatswood to Epping Rail link, Liverpool to Ashfield Pipeline and many more. It has also worked on display placements for the Australian Museum and Powerhouse Museum for more than 20 years.

As well as upcoming construction projects, DJ Adair Crane Services is also working on the Port Botany D ramp expansion for Fulton Hogan doing general construction, lifting bridge beams and other support. Up to 16 employees are working on the site.

For more information contact DJ Adair Crane Services Pty Ltd, 69 Loftus Street Riverstone NSW 2765, PO Box 823 Windsor NSW 2756, phone 02 9627 9503, mobile 0412 331 113, fax 02 9627 9509, email admin@djadaircranes.com.au, website www.djadaircranes.com.au



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