



Update . . .

High-rise Apartments Signal Reviving Demand

In Manukau City, 17 Putney Way had nearly 30 years as a building accommodating offices with some retail outlets when the owner, Growth Equities, decided to give it a new lease of life as apartments. Modern standards of structural design necessitated a seismic upgrade; as a change-of-use project it would raise its profile in steel.

Work started in October 2013 when D&H Site Supervisor Dean Rafferty and his team began strengthening eight levels of the existing concrete floors. "We reconfigured the lift well and replaced one set of stairs with two," says Dean. "Because the tower crane could not reach us, to get all the steel in place for the seismic strengthening we used a spider-crane and lots of D&H ingenuity plus muscle, one floor at a time!

"The underside of Level 8 we had to strengthen significantly to take the three levels of new steel going on top. It required drilling through the old concrete beams and avoiding their steel reinforcing. On more than 30 columns we customised every base plate and relayed this back to the D&H fabricators at Brick Street. We then assembled the frames on the ground, each weighing nearly 10 tonnes. When we lifted and lowered, every single bolt fitted perfectly!"

Dean Rafferty, on the top floor with right-hand man Henry Hene-Liko, says: "This project was really technical and challenging." The Scarbro Project Manager, Aaron Lindsay, agrees: "It was also the best site for me in a long time, because of the good relations with the D&H team."



Also in this issue: As D&H Steel implements ISO 3834, we are rated "up there with the best in Europe". . . Two more new warehouses with offices in Auckland . . . We deliver our first made-in-NZ Buckling Restrained Braces to Wellington . . . fully fabricated Custom Welded Beams to the Christchurch rebuild . . . and we invest in our people . . .

"D&H Steel is right up there with the best in Europe!"



Left to right: Dean Pouwhare, Operations Manager, Professor Boyoung Lea (IIW), Alan McClintock (HERA), Dave Gulland (Consultant), Heath Johnston, Welding Supervisor, Peter Hayward (HERA), Christian Ahrens (IIW) and Cameron Rogers Custom Welded Beams & Parts

The Heavy Engineering Research Association (HERA) has been recognised as an ANBCC—i.e., an Authorised National Body for Companies Certification as ISO 3834 compliant. Two members of the International Institute of Welding (IIW), Professor Boyoung Lea of Korea and Mr Christian Ahrens of Germany audited HERA on April 1. The following day they witnessed HERA representatives, Alan McClintock and Peter Hayward, conducting a successful audit of D&H Steel's systems and procedures. Our company was given ISO 3834 accreditation — the first in New Zealand — for compliance with this world standard. Mr Ahrens commented: "D&H Steel's fabrication is right up there with the best companies I audit in Germany."

We Help Develop New Warehouses and Offices — *SPEEDILY!*



On the left Highbrook #3, Warehouse 6,200m², Offices two floors 400m². On the right new East Tamaki premises for Hilton Parker, Warehouse 2,530m² Offices 460m².



Our Operations Manager, Dean Pouwhare, says: "These are bread and butter jobs for us, and because they are routine, the work just flows through our production process and gives our customers a hassle-free experience." About Highbrook #3, the Watts & Hughes Project Manager, Glenn Spencer, said: "D&H Steel brought its usual high level of skills, competence and expertise. I've worked with them



at Auckland Airport and they're good." The Project Manager for the Hilton Parker warehouse was Phil Turner. "Earthworks started towards the end of 2013, and I was very happy with the speed of the D&H steelwork. It meant we could hand over the building on schedule for the installation of the Hilton Parker storage racking. The programme was tight but D&H gave me confidence we'd finish on time."



Our structural steel is designed for the future . . .



At 151 Cambridge Terrace in Christchurch, structural steel was selected for its strength to weight advantage and speed of erection, but also in recognition of its good performance in the Canterbury earthquakes. The project was undertaken jointly by Christchurch's John Jones Steel and D&H

Steel; we supplied all the Custom Welded Beams, which were fully fabricated.

Grant Wilby, Technical Director of Aurecon, the structural engineers, says the decision to base isolate the building was driven by the client, Stephen Collins, to improve occupant safety and

help future-proof the building. "At ground floor level, the structure is supported by 19 isolation bearings. These are triple action pendulum bearings, manufactured by Earthquake Protection Systems (USA), and have a bearing inside a bearing. This is their first use in New Zealand."

. . . strengthens the past . . .

The decision to use Buckling Restrained Braces (BRBs) to strengthen GSB House in Wakefield Street is a first for Wellington and makes the building 67% NBS compliant. The BRBs were made for the project by D&H Steel under our licence agreement with Star Seismic. Our Engineer John Frederickson explains: "Star Seismic personnel visited us from Utah to conduct a complete process audit. This confirmed that we can now manufacture the BRBs in compliance with the Star Seismic Production and Quality

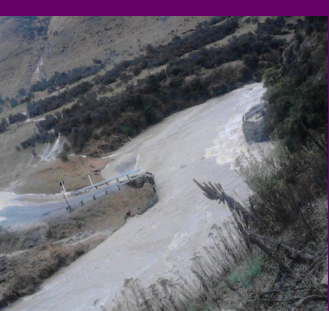
Standards. This important step will be of interest to all building owners concerned with retrofitting to improve safety."



. . . and fixes the broken.

In the last quarter of 2013, high intensity rain in North Otago washed away the 100-year-old Danseys Bridge, the link between Naseby and Ranfurly in the South and the Mackenzie Basin. A Bailey bridge was installed; groundworks started on October 7.

D&H Steel shipped fabricated steel beams to Dennis Industries who undertook the rapid assembly of the bridge for Whitestone Contracting Limited. The new bridge was installed on the original site and was trafficable by December 21. Guardrails were a Christmas present.





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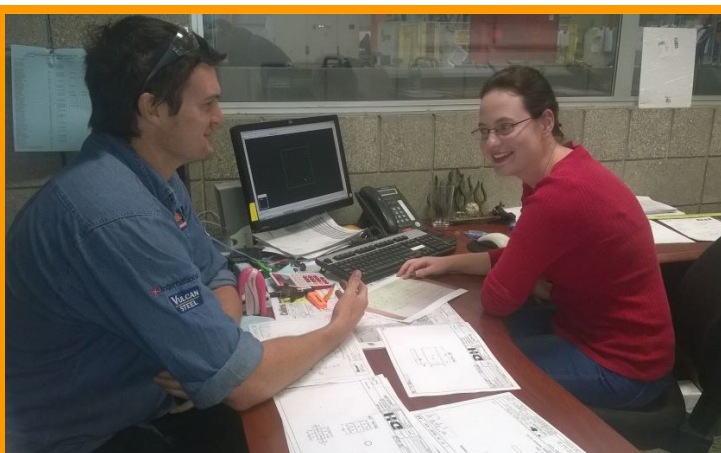
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"Whatever we do, it's for the good of the company!"

The words of D&H's Quality Assurance team, Kelvin Chand and Carlos Indo. Kelvin and Carlos check that every piece of work going through the workshop is completed in accordance with the fabrication drawings. "D&H fabricators and welders work at a very high standard," says Kelvin. "We believe in being very tough, but fair."



Kelvin Chand (left) talks Quality Assurance with Abdul Munif while Carlos Indo does some checking. "Quality is why the company pays all of us!" says Carlos.

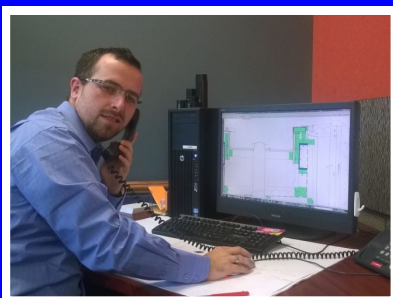


Kelly is handing Plate Line Operator Eamil Singh his next job, which she's already sent to the machine as a programme for the next cutting. The document is a Nesting Form that shows Eamil the efficient use of the chosen plate. Cameron says Kelly is showing great promise.



D&H Steel invests in its people.

Currently responsible for Custom Welded Beams & Parts, Cameron Rogers has also run the wheelabrator and will work on every D&H asset. He's showing former receptionist Kelly Gebauer the ropes when it comes to assisting with production administration for the beam and plate lines Prep Bay.



Mark McKeown takes up the role of D&H Estimator, leaving behind his native Ayrshire but not his soft, lowland Scottish accent. Mark has top level experience, having worked for Solway Steel and Bourne Construction Engineering, one of the top three in the UK. "There's far less red tape in New Zealand," says Mark, "and from bidding to contract

award and steel on site the time-scales are shorter here." Since settling in Auckland, this keen golfer and guitarist has met girlfriend Fernanda, a geologist who's at the University of Auckland on a one year postgraduate scholarship from her native Chile. Fernanda, like Mark, also plans to move to NZ permanently.

