



Update . . .

Phase One of Hopetoun Residences

Hopetoun Residences is a redevelopment project by the award-winning Tawera Group. Summit Construction was appointed the lead contractor in June, 2014, to convert an outdated office block into 91 apartments in a location situated between the Auckland CBD and Ponsonby Road (15 Hopetoun Street).

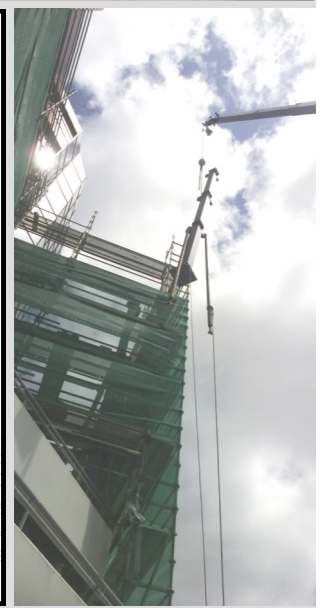
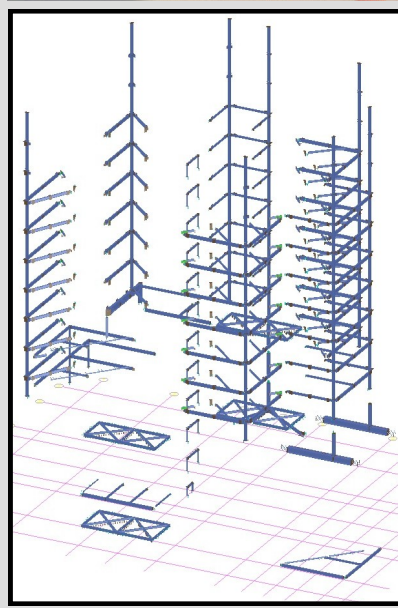


Summit sub-contracted D&H Steel Construction to fabricate and erect the steel for changes to the original design. These included complete seismic strengthening and changing the original octagonal shape of the building to make it more square, enabling the construction of balconies with superb views. D&H Steel addressed the craneage for the first phase with its 35-tonner, which can lift up to 45 metres. This will be replaced by a 300-tonne crane for the second phase, which involves the removal of the existing roof for the addition of three new upper levels plus a new structural steel roof. This will provide 12 storeys of freehold, high value apartments of varying sizes and layout.



The directors of Summit, Andrew Burden (right) and John Carter, have combined experience of more than 50 years in construction and were complimentary about D&H Steel. They praised the steel detailing done by Wayne Peachey and described the steel strengthening and rigging by the site team as exemplary. "Karl Muller constantly keeps his team aware of safety, and Tom Heather's crane driving was excellent," said John Carter.

Note: Because fitting large completed frames was not practical. It was necessary to triangulate, lifting with small hoists. Update . . . will report on Phase Two - the addition of three top floors - in our next issue.



| | | | | | | | | |
|--|--------------------|---------|--------------------------|-----------------|---------|----------------------|-----------------|---------|
| Key D&H People: 09 839 7250 | | | | | | | | |
| Wayne Carson | General Manager | Ext 205 | Mark McKeown | Estimating | Ext 206 | Rob Purchase | W'shop Super | Ext 227 |
| Dean Pouwhare | Operations Manager | Ext 217 | Jamie Moxon | Estimating | Ext 215 | Kevin Thomas | Procurement | Ext 210 |
| Dave Gulland | Contracts Manager | Ext 222 | Colin Ross | Project Manager | Ext 237 | Adele Hikuroa | Accounts | Ext 212 |
| Mike Thompson | Detailing Manager | Ext 204 | John Frederickson | CWBs & BRBs | Ext 219 | Amy Knowles | Doc. Controller | Ext 221 |

Two More Warehouses for Auckland's Highbrook Business Centre



A six-crane roof-lift is held for D&H Steel riggers to complete the bolt up of the new Ford Warehouse on Underwood Drive. Our Rigging Supervisor Jimmy Noble is well pleased with progress. Pictured beside his vehicle, he maintains close radio contact with his team.

"It's a fairly new D&H Steel Construction team," says Operations Manager, Dean Pouwhare. "We know the individuals have extensive rigging experience, but this can always be improved by our emphasis on the importance of teamwork. A strong team spirit is good for safety as well as efficiency."

At 17 Business Parade North is the new coil and purlins warehouse for Steel & Tube. Brad Monaghan is the Project Manager for Haydn & Rollett. "It's gone very well," says Brad, "thanks mainly to D&H's being willing to work around our needs. As we approached a problem of integrating head-gear and pits for the production lines, we could have lost momentum on our construction programme. D&H's Dean Pouwhare came on site for a meeting with ourselves and HEB Construction. He and his Site Supervisor, Eric Birch, switched the D&H work to the crane rails giving us time to focus on resolving the pits issue. As a result, we finished on schedule."

New Head Office for Downer

Situated at 130 Kerrs Rd, Manukau, and adjacent to an existing Downer's building (also a D&H Steel job), this three-level structure has floor areas of 36 x 48 metres. The crane has just hoisted the roofing steel. Downer's Project Manager Colin McKenzie says the final



stage will see the two buildings connected by the creation of an atrium between them. "Connection is part of the Downer business philosophy," says Colin. "Ours is a company that's seen acquisitions of people from all sorts of different backgrounds, but we believe in the idea of **One Downer** - we all work for one company. So the atrium that D&H will provide the steel for will have our main reception



area, as well as meeting areas and a coffee bar. This has been a great little job and adding this last phase will make a big contribution to the way Downer people share their work ethic. I've known D&H Steel for many years and have seen how they value the experience of their people. Each generation is a pleasure to work with, because the quality of their work is marked by the pride they take in it. "



The Bus Interchange for Christchurch



Bounded by Tuam, Colombo and Lichfield Streets and SOL Square, this 14,000 square metre facility is being developed jointly by CERA, CCC, the NZ Transport Agency and Environment Canterbury. The project is complex and challenging, and our Quantity Surveyor, Shabbir Rajkotwalo, says that just because challenges are expected doesn't mean they are easily solved. "It's one thing for the

design to be constantly evolving, but the budget limit could not be exceeded. Meanwhile, the deadline remains strictly fixed. So once again D&H Steel is supporting John Jones Steel in another time-critical project of the Christchurch rebuild. What makes our steel unique is our Custom Welded Beams, which we fabricate to Aurecon's engineering specifications. The 800CWB832 beams (see below), have an



Upendra Jeeru and Suresh Kumar

80mm web and 60mm flanges and play a vital role in strengthening the foundations." They also needed advanced welding skills, as our Welding Supervisor, Heath Johnston, explains: "Our main focus here was the base plate and the stiffener, which required Prequalified Complete Penetration Butt Welds, Partial Penetration Butt Welds and fillet welds. Because of the combined thickness, it is necessary to pre-heat to 100°C using LPG

Burners. With two welders working in multi-runs, I take them through the WPS (Weld Procedure Specification), check the metal temperature and tell each when to start. The critical factor is the Interpass Temperature. This refers to the temperature of the weld area immediately before the second and each subsequent pass. If this drops too much, there can be problems with the quality of the weld, so the temperature must be very carefully monitored throughout the welding process and, if necessary, brought back to where it should be. With Complete Penetration Butt Welds, we keep the burners on from start to finish."

More in our next Update. . .



Mainfreight Hamilton



Craneage was an initial problem; Operations Manager Dean Pouwhare says most Hamilton companies aren't used to providing eight cranes for one roof lift. "The Mainfreight engineers watched the first and were impressed. Occasionally strong wind delayed lifting, but in a good period, we'd work to catch up with our programme."





'Experience Our Strength'

- Project Management
- 3-D & Shop Drawings
- Fabrication
- Protective Coatings
- Site Management & Erection



D&H was the first steel constructor in NZ to be awarded this International Quality Accreditation. We comply with ISO 3834 for the benefit of our clients.



We were also the first to acquire Steel Fabricator Certification - a quality management system under the auspices of the IIW (International Institute of Welding).



We manufacture all the commonly specified welded beam & column sections and provide a free design service for optimised, tapered portal frames. Our CWBs are made from G350 steel and welded on both sides.



The leading brand for Buckling-Restrained Braces made in New Zealand by D&H Steel Construction to calibrated & certified seismic ratings.



We challenge our resources and applaud their successes

General Manager Wayne Carson (right) and newly appointed Contracts Manager Dave Gulland are happy that the construction industry is again buoyant. "Now is a good time for Dave's appointment," says Wayne, "because our top priority is to ensure we fully understand our clients' requirements and expectations and keep these well ahead of our own."



"Before fabrication starts," adds Dave, "my role focuses me on the main contractors so that any potential hitches are cleared. Planning and early team involvement is key. I provide the programming information to our drawing office, our workshop and our site-crews and play the role of co-ordinator. The experience of our people is vast, drawn from all levels of the industry and augmented by D&H teamwork. We smile only when we are as efficient as possible."



Two certificates mark our mettle

Dr Michail Karpenko, Manager of the HERA Welding Centre (left), and David Smol, Chief Executive of the Ministry of Business, Innovation and Employment, presented Wayne with the certificate for the internationally recognised AS/NZS ISO 3834 Part 2 Weld Quality Standard and a second certificate for Steel Fabricator Certification (SFC) to Construction Category 4 (CC4) - the highest category covering all types of structural steel work. As Wayne said: "We're proud to be first in New Zealand." (See website story on Quality.)

Pylon for Ernie Pinches Footbridge Extension



Project Manager Colin Ross says the new pylon for the Ernie Pinches Footbridge extension at Mt Roskill, earned warm praise from Project Engineer Jeremy Gordon of The Well-Connected Alliance. "He said 'Well done, D&H - good work.' All the sealed cavity welds at the head of the frame were

pressure and ultrasonically tested for soundness; both ends of the cable rod assemblies required complex dihedral angle fabrication details to achieve true 3D alignment; and the HD bolt base-plates were accurate to within 1mm and fitted like a glove; and it was a tight programme." **Colin Ross**



D&H Steel Construction Ltd, 42 Mihini Rd, Henderson 0610, Waitakere, NZ
 PO Box 104257, Lincoln Road, Henderson 0654, Waitakere, NZ
 Ph: 09 839 7250 Fax: 09 836 7169 www.dhsteel.co.nz