

WINTER 2020

# CONNECTIONS

D&H STEEL PEOPLE + PROJECTS

+ PERFORMANCE



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## AUCKLAND'S REIMAGINED WATERFRONT

The Westhaven Marine Village is a 2,000 square metre development located in Auckland's Westhaven Marina, led by Panuku Development Auckland. Given the developments proximity to the marina, this project presented some key challenges. Notably, all team members had to ensure the safety and protection of the world-class vessels docked nearby.

As part of Panuku's vision to transform Auckland's waterfront, two key design elements of the structure were essential – a sawtooth roof and a clear span building. The use of steel was critical in achieving this, both to the structural foundation and the visual aesthetic of the final product.

Argon, the main contractor, engaged D&H Steel at the onset of the project

through Early Subcontractor Involvement (ESI) to bring this to fruition. The focus was to ensure there would be no late changes in design so D&H could construct everything offsite and eliminate any onsite welding or grinding to avoid rust particles reaching the nearby boats. This required a high level of coordination.

Early in the project, D&H Steel was able to provide value engineering for the complex roof construction. The result is a sawtooth roof profile which forms deep steel trusses spanning up to 24m across the full width of the building. Working alongside the structural engineers at BGT Structures, D&H Steel was able to deliver the desired clear span space in large modularised assemblies.

*According to Tammy Ashley from ArchOffice, the supporting architecture*

*firm, "the sawtooth roof form is inspired by the Devonport naval shipyards, and the long lines of the white triangular sections are reminiscent of sails clustered at the start of a race."*

The world-class development and facilities, which are near complete, will enhance the Westhaven Marina experience. Set to open in November 2020, the site will offer purpose-built accommodation for marine businesses such as chandlers, brokerages, food and beverage establishments and other specialist services.

*Continued inside*



**STEEL CONSTRUCTION**



Continued from Page 1

The building's unique design is inspired by the area's industrial marine heritage and will serve as a picturesque place for visitors to rest, grab a bite to eat, and enjoy the expansive views of the marina and city skyline.

Matt Gabriel, General Manager at Argon applauds the role that D&H Steel has played, noting the project was of high quality and completed ahead of schedule.

*"I'm very happy with the results and how D&H Steel performed – they were efficient and worked hard to complete everything to a high standard."*

Right: Steel construction of the Westhaven Marine Village. Artists impressions of the completed structure.



## HUAPAI OVERCOMES HURDLES

The development of high-end retirement community Country Club Huapai is near complete. Set in the Huapai wine country, the development is due to open its doors in September 2020 despite a delayed project commencement date and a tight delivery timeframe.

The Country Club's structure utilises steel frames with precast flooring units. D&H Steel were engaged through Early Subcontractor Involvement (ESI) based on their expertise in the field and a strong reputation in delivering quality outcomes.

In the early stages of the project, D&H Steel overcame some timing challenges

following poor ground conditions that caused a delay in the piling stage – however the programme was brought back onto schedule due to some construction ingenuity by D&H Steel. An example of this was the fabrication of the EBF frames full width and height and installing as a completed assembly shaving days off the programme.

*John Lewis, Project Manager at Form Construction, says "collectively and individually, the team at D&H Steel brought forward a wealth of knowledge to enable the smooth transition from the shop drawing process through to completion."*

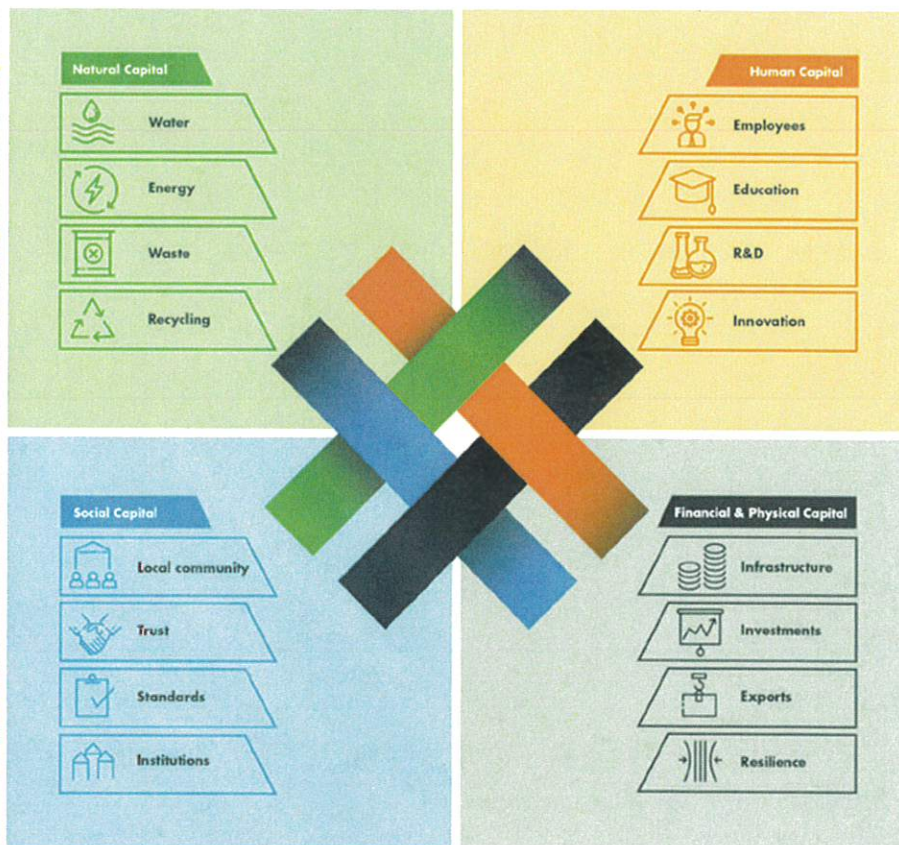
The boutique retirement village, a venture between Hopper Developments and Cabra Developments, is an exciting and successful example of development that is sweeping across the aged care sector.

Main Image The Country Club Huapai in mid-construction.

Below: Artist depiction of the completed Country Club.







# D&H STEEL RECEIVES SUSTAINABILITY CERTIFICATION

D&H Steel are proud to have become a certified member of the Sustainable Steel Council (SSC), the first step in the journey to becoming a more sustainable business. As one of the first three companies to receive certification, D&H Steel completed an audit to assess existing practices within the business and to identify areas for improving the business performance around sustainability.

The audit process involved D&H Steel assessing existing practices within the company and measuring against the benchmarks set by the SSC. The company audited 22 individual practices, which demonstrated areas where the business was succeeding and where improvement was needed.

The biggest learning from completing the SSC audit and certification was understanding that sustainability is more than just environmental. Business performance is measured against the four pillars of sustainability across natural, human, social, and financial & physical capital – as defined in our government's living standards framework. Thanks to the audit process, D&H Steel now has measurable processes in place to benchmark business performance.

## NATURAL CAPITAL

D&H Steel scored highly on environmental policies through being a modern facility and having existing practices around recycling with stormwater and general waste recycling within the business.

## HUMAN CAPITAL

D&H Steel are proud to have received pleasing outcomes measured against human capital, with positive results around staff welfare, staff wellbeing, family environment and employment security.

## SOCIAL CAPITAL

The audit revealed that D&H Steel scored highly in supporting the local community through apprenticeships and a commitment to training young people in the business. From a wider community perspective, D&H Steel is dedicated to lobbying on behalf of

the structural steel industry for the latest Government procurement rules and has made good gains in working with various Government departments and policies to bolster the industry.

## FINANCIAL AND PHYSICAL CAPITAL

D&H Steel was found to have great business resilience and a well-funded strong capital business.

Six months on, D&H Steel has established procedures to efficiently measure and publish the outcomes of sustainable practices, with plans to undergo a 12-month audit in the future to assess opportunities for further improvements. Looking forward, D&H Steel will use the insights from the audit process to implement sustainability-led principles to all areas of the business, from everyday employee performance all the way through to the final project outputs.



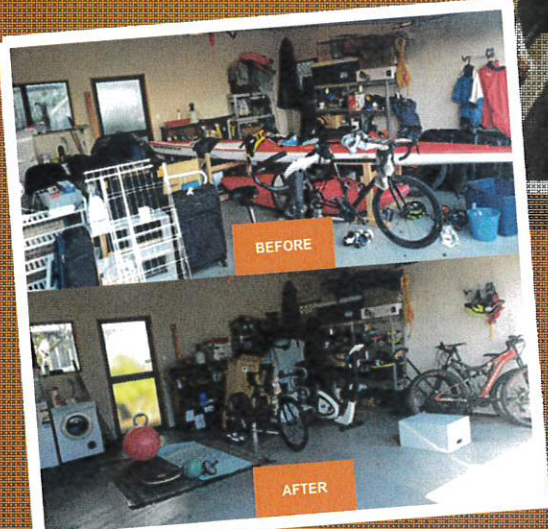
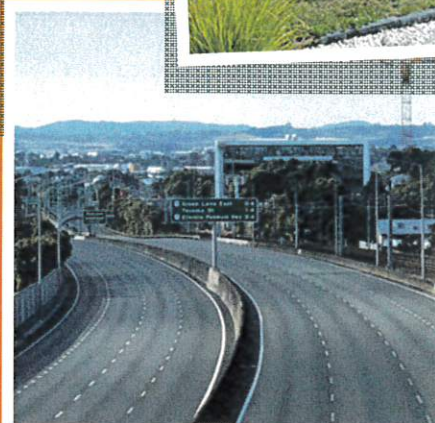
# LOCKDOWN

Lockdown was a challenging period, testing both business resilience and employee satisfaction, however D&H Steel and its 250 employees have emerged as a stronger team, united through hard work and empathy.

Wayne Carson, General Manager at D&H Steel says, "during lockdown, only 30 of our employees were able to work from home and the other 220 couldn't work at all. We had significant forward work either terminated or placed on "indefinite hold".

I would like to recognise the commitment of those 30 employees who tirelessly kept the wheels turning and chasing new opportunities to help with the company's disaster recovery.

"But also D&H Steel was empathetic to those who could not work, and we ensured a high level of employee protection and support. It was this hard work, empathy and support of our staff that has placed D&H Steel in a positive, post-lockdown situation," Carson adds.





## STEEL SUPPORTS CORDIS EXPANSION ON CONSTRAINED SITE

**Cordis Auckland is a 411-room luxury hotel located on the corner of Symonds Street and City Road. Situated on a constrained site with a unique structural shape, the hotel owners Langham Hospitality Group, have set out to expand the existing hotel to be the biggest in New Zealand by room count.**

The development involves the construction of a new 17-storey tower in the North-East corner of the site. The new tower will be connected to the existing hotel with an additional 244 rooms and suites, taking the total to 650. The new rooms will range from 32 square metres and the new Club Lounge on level 14 will offer panoramic views of Auckland City.

The impressive new structure is boundary-to-boundary and is shaped somewhat like a boomerang. Steel was identified as the primary material of choice to provide optimal opportunities in what could be achieved structurally.

Hawkins engaged D&H Steel to supply and install all the primary steel structures. In the project's early stages, D&H Steel proposed multiple value engineering ideas which were adopted by the client.

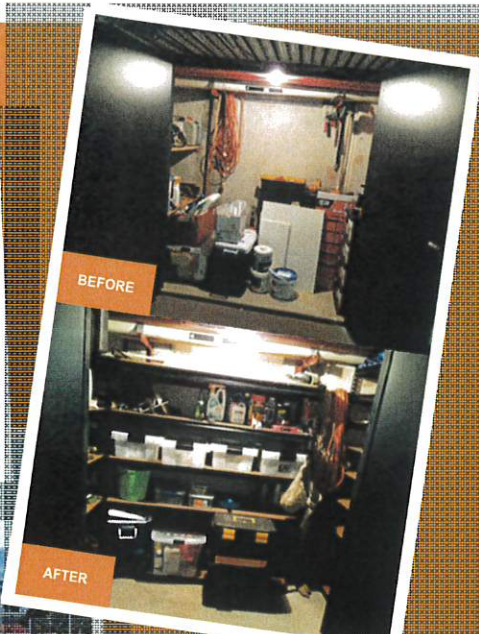
Rhys McKenzie, Project Manager at Hawkins says, "D&H steel came to the party with solutions very early in the planning phase which drove

the methodology and programme implementation. This resulted in large modular sections of steel replacing most of the bolted moment connections which would have had to be done at height. The tallest columns were five stories high and took the building from level six to 11 very quickly."

The first ten floors in the new tower match the existing hotel floor to ceiling height, meaning there was only 2525mm to work with between floors. The use of structural steel was critical in achieving results in this finite space. D&H Steel were faced with various beam RL's: under slab, embedded and above slab. The embedded beams with shelf brackets had to be coordinated with flat slabs and reinforcing steel which lead to a range of solutions from passing rebars through beams or connections with threaded IMBMS bolted couplers.

The building itself is made up of a reinforced concrete core and structural steel perimeter moment frames, with a mixture of in-situ and precast concrete floors seated on structural steel and clad with a unitised curtain wall façade.

While structural construction is still underway, the final product is starting to take shape with curtain wall working up the building and fit out trades starting. It's scheduled to open in late-2021.





- + Project Management
- + 3D Modelling & 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 and column sections and provide a free design service for optimised, tapered portal frames. Our custom welded beams are made from G350 steel and welded on both sides.



## CASE STUDY

# MEET THE TEAM BEHIND THE AIRPORT EXPANSION

The expansion of Auckland Airport's International Terminal is an impressive design and construction feat as described in the attached SCNZ Case Study. D&H Steel has been involved with Auckland Airport's development for almost 40 years and played a critical role in the phase 3 expansion.

The project has almost doubled the size of the departure processing zone, reconfiguring the landside farewell area; building a new and

expanded security screening and processing area; and building a new passenger lounge and duty-free shopping hub.

At the peak of the contract, D&H Steel had 36 staff on site booking some 90,000 hours over the 18-month duration of the project.

The dedicated D&H Steel team was able to successfully overcome key challenges, including a tight timeframe and the need to minimise impact on passenger movements and disruption to flight schedules.

Some of the key D&H Steel leaders on this project include:



### RICHARD HINE CONTRACTS MANAGER

Richard is a dedicated Contract Manager and led the D&H Steel team on the \$12m, 2,500 tonne AIAL project. He has vast experience and has led the structural steel delivery across significant projects locally and internationally.



### DEAN POWHARE OPERATIONS MANAGER

Dean has been with D&H Steel for over 25 years overseeing workshop and site operations. Dean is highly respected in the industry for his experience, problem solving and leadership. Dean drives the 'can do' D&H way.



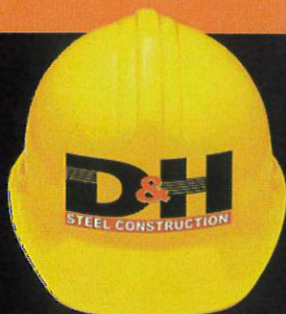
### KEVIN DEANE SITE MANAGER

Kevin was the site manager during the AIAL phase 3 expansion and has been with D&H Steel for over 15 years. Kevin brings this wealth of experience to the company's site operations on challenging projects including Westfield Albany and Sylvia Park redevelopment.



### KARL MULLER SITE SUPERVISOR

Karl is a well known and highly experienced site supervisor and has been with D&H Steel for 29 years, many of them at Auckland Airport.



Phone one of our team today on 09 839 7250. We'd love to hear from you.

**Wayne Carson** – Ext 205  
Director/General Manager

**Dean Pouwhare** – Ext 217  
Operations Manager

**Mike Thompson** – Ext 204  
Detailing Manager

**John Frederickson** – Ext 219  
CWB Manager

**Richard Hine** – Ext 211  
Contract Manager

**Colin Ross** – Ext 237  
Contract Manager

**Document Controller** – Ext 225

**Mark McKeown** – Ext 206  
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**Jamie Moxon** – Ext 215  
Estimating

**Justine Purchase** – Ext 210  
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**Adele Hikuroa** – Ext 212  
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