



EXPERTISE

**OUR EXPERTISE
AIRPORT
INFRASTRUCTURE**

CAPABILITY STATEMENT



OPENING REMARKS BY MICK POWER AM

I am delighted to introduce BMD's capability in the delivery of airport infrastructure.

BMD has delivered a significant volume of air and landside works for our clients operating airport infrastructure throughout Australia.

Since our first early works package at the 1st Aviation Regiment Roberston Barracks in Palmerston Northern Territory, BMD has developed the necessary skills and expertise required for the successful delivery of airport infrastructure.

Our clients benefit from this expertise with project challenges overcome, efficiencies realised though lessons learnt, unwavering quality standards and most importantly, projects delivered without incident.

We have worked on airport projects from as far as Perth to Sydney and Townsville to Whyalla, and have demonstrated our expertise with a range of clients. One of these is our long association with Brisbane Airport Corporation (BAC).

Over the past twelve years we have successfully delivered a number of projects for BAC, both airside and landside, which is a testament to BMD's dedication to repeat-business.

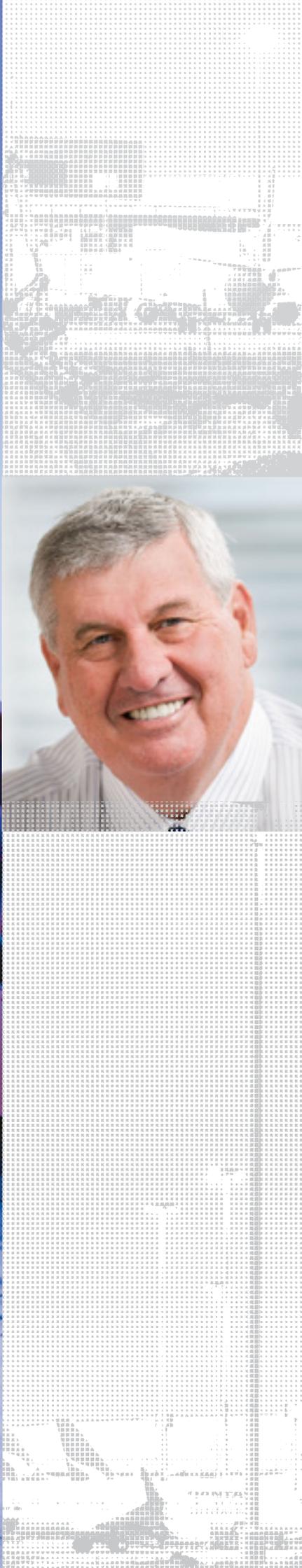
Our project team's diligence and commitment to safety ensures seamless security amidst a fully operational airport.

I truly believe that airports are the gateways to our cities, towns and regions, whether they be in Brisbane or Busselton. I look forward to delivering more airport expansion projects as well as new airport infrastructure across the country for our valued clients, utilising the skills and expertise that our great people hold.



Mick Power AM

BMD Group Board Chairman and Managing Director



EXECUTIVE INTRODUCTION BY SCOTT POWER



For the 36 years BMD has been operating, we have galvanised our culture and founding company values in everything we do. This is particularly evident in the highly skilled and loyal team that specialises in airport, logistics and transport infrastructure delivery.

From this document you will see the wealth of experience that BMD has garnered and I am so very proud to say that it is through the dedication of our team we have maintained our ability to deliver to the highest of standards.

Some of our people have been with BMD for more than 20 years. They understand the needs of our clients and are experienced in airport security protocols and compliance. Our people recognise the importance of things running smoothly and maintaining day to day operations in a constrained environment and are experienced in minimising the impacts of construction works.

We see our strengths in the quality of our people and our genuine relationships with our clients and partners. We understand the complexities of airside and landside airport infrastructure works and develop strong working relationships with our clients to ensure projects are completed to budgets, with minimal impacts on stakeholders and the surrounding environments. Backed by our own robust management systems, we work within our clients' systems to ensure a seamless security interface is maintained at all times. We are consistently motivated to achieve the best outcomes for our clients.

Each project we undertake is different to the next but through the extensive experience of our talented team, we are able to recognise and understand the needs of the job and are able to implement the appropriate measures to achieve outstanding results.

A handwritten signature in black ink, appearing to read 'Scott Power', written over a thin horizontal line.

Scott Power

BMD Group Executive Director – Operations

BMD Constructions is a wholly owned subsidiary of the BMD Group and has more than 1,700 employees working throughout Australia supported by third party certified management systems, substantial balance sheet strength and the resources and flexibility of a large Australian owned private company.

SPECIALIST EXPERTISE IN LAND AND AIRSIDE WORKS WITHIN LIVE, OPERATIONAL ENVIRONMENTS

EXPERIENCED IN
AIRPORT SECURITY
PROTOCOLS AND
COMPLIANCE

SPECIALIST EQUIPMENT TO
ENABLE SELF-PERFORMANCE
OF WORKS

NATIONAL COMPANY — ESTABLISHMENT —
1979

NETWORK OF KEY SUPPLIERS
NATIONALLY INCLUDING
BORAL, HOLCIM.

PROJECT DELIVERY
EXPERIENCE IN PRIVATE
AND DEFENCE AIR BASES



BMD DELIVERS ON



A PATH TO ZERO HARM



SPECIALIST INTEGRATED PROJECT TEAMS



QUICK AND EFFECTIVE DECISION MAKING

1



**SAFETY, SECURITY AND
AIRSIDE MANAGEMENT**

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**STAKEHOLDER
MANAGEMENT**

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**WORKING IN LIVE,
OPERATING
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**SELF-PERFORMING
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**CARE FOR
QUALITY**

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**A SELECTION OF
RELEVANT EXPERIENCE**



OUR EXPERTISE
AIRPORT INFRASTRUCTURE

SAFETY, SECURITY AND AIRSIDE MANAGEMENT

Safety is a non-negotiable priority for BMD, having a Zero Harm policy that is entrenched in our culture.

BMD also understands the specific safety systems required to manage airside works and our corporate systems have been developed to deliver the highest of standards. BMD has established airside work sites across Australia, engaging with and integrating Airside Operations Officers (AOO) into our project teams, managing ingress and egress through secure check points and developing specific method of works plans.

BRISBANE AIRPORT CORPORATION COLLABORATION, QLD

During BMD's tenure at Brisbane Airport, multiple projects and activities were being undertaken onsite at any given time, in a constrained operational environment.

In early 2014, following more than 11 consecutive years working with Brisbane Airport Corporation (BAC), BMD worked with BAC to develop a Safety Improvement Plan (SIP) that was then applied to the four concurrent projects underway.

The BAC SIP detailed actions to align, focus and drive line management while also engaging and motivating the workforce to improve project safety culture and performance to achieve our goal of Zero Harm.

The actions detailed in the plan included:

- nominate BMD representatives to interface with BAC for escalation of safety issues
- establish monthly face to face meetings between BMD and BAC safety representatives
- determining the level of on-site engineering support for all projects
- nominate a single BMD point of contact to liaise with BAC for all upcoming activities, approvals and permit requirements
- determine investigation requirements including full ICAMs in the event of an incident
- utilise BMD's Accountability Matrix to determine consequences of safety breaches.



The SIP was endorsed by BAC's Senior Management and has been successfully used across airside and landside projects since early 2014. This SIP has resulted in BMD achieving a reduction in Total Recordable Injury Frequency Rates (TRIFR) as outlined below:

- a TRIFR of 7.83 on Domestic Southern Apron Extension across approximately 255,500 man hours
- a TRIFR of 5.76 for the New Parallel Runway Reclamation works across approximately 173,500 man hours

As a value-add, BMD also delivered a dedicated BAC Safety Induction Video, which showcased BAC's safety expectations across their operations. The video is now used by BAC as part of their own induction for all contractors.

SECURITY CERTAINTY

BMD has successfully managed:



establishing and maintaining site perimeters



egress and ingress to airside sites via secure gates



utilising Airside Operations Officers for required works



vehicular and driver approvals and licences for operating within airports.

STAKEHOLDER MANAGEMENT

BMD works collaboratively with our clients to manage the many and diverse stakeholders involved in airports and their infrastructure. BMD has a robust understanding of the competing priorities and needs of our client's stakeholders in order to mitigate risks, overcome challenges and communicate outcomes.

DOMESTIC SOUTHERN APRON, QLD

BMD Constructions was engaged by Brisbane Airport Corporation (BAC) as the head contractor to deliver the \$35 million civil works package for the new Domestic Southern Apron. The project was realised to improve efficiency and capability at the Domestic Airport, requiring the expansion to seven new aircraft bays and upgrades to three existing aircraft bays.

The project saw BMD interface directly with live aircraft bays, taxiways and runways in order to deliver aircraft pavement, relocation of an airside road, realignment of a public road and installation of new services and fuel tanks.

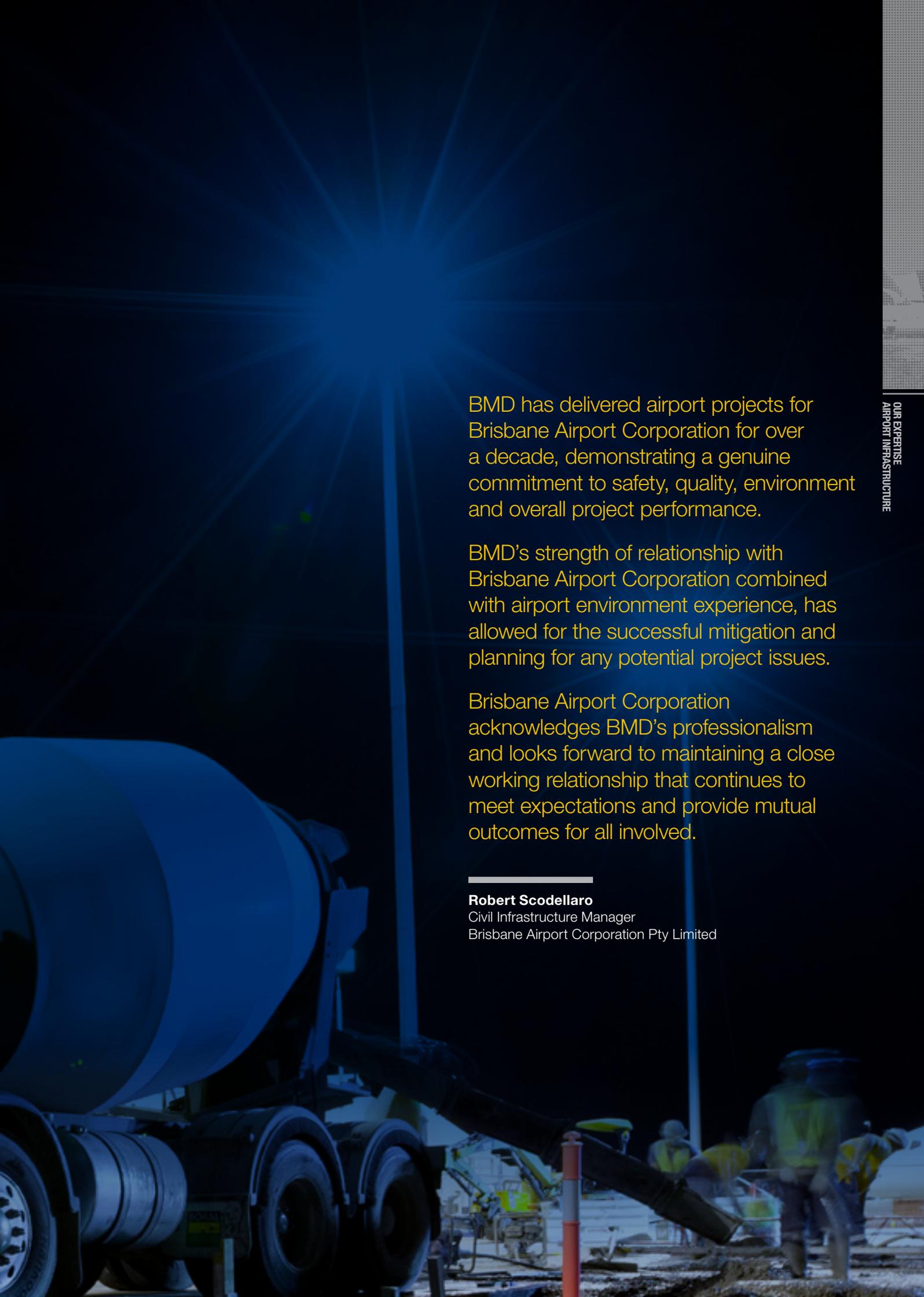
The works required significant stakeholder management to ensure project delivery would not impede airport operations. Stakeholders included various BAC asset management, building commissioner, airside operations and the general public.

BMD instituted regular coordination meetings for each package of works. This ensured all relevant stakeholders were engaged about works specific to their area of interest and promoted the sharing of knowledge and brainstorming to overcome issues.

KEY OUTCOMES

- Risk workshop held with key BAC departments prior to the start of works to establish lines of communication between BMD and relevant stakeholders.
- No unplanned interruptions to airside operations.
- BMD managed staging of works around operational requirements and requests from BAC and their tenants.
- Dual taxiway commissioning for 15 bays, inclusive of taxiway markings. Bay designation changes were planned and executed over a single night shift with final approval from BAC airside operations as safe for use, minimising the down time for the airport taxiway.





BMD has delivered airport projects for Brisbane Airport Corporation for over a decade, demonstrating a genuine commitment to safety, quality, environment and overall project performance.

BMD's strength of relationship with Brisbane Airport Corporation combined with airport environment experience, has allowed for the successful mitigation and planning for any potential project issues.

Brisbane Airport Corporation acknowledges BMD's professionalism and looks forward to maintaining a close working relationship that continues to meet expectations and provide mutual outcomes for all involved.

Robert Scodellaro

Civil Infrastructure Manager
Brisbane Airport Corporation Pty Limited

WORKING IN LIVE, OPERATING ENVIRONMENTS



BMD brings a wealth of experience working in live, operating environments including airports, ports, railway corridors, resource terminals, and defence facilities.

Understanding the need to construct safely, while maintaining our client's operations, means BMD is able to effectively stage works, delineate work sites, manage nearby stakeholders and ingress and egress access from secure areas, without incident.

PORT BOTANY TERMINAL EXPANSION PROJECT

PATRICK TERMINALS

Patrick Terminals engaged BMD Constructions at Port Botany to deliver multiple projects, valued at more than \$58 million, between 2004 and 2010, working in constrained, operational environments.

BMD honed our skills during this time, working closely with the client's operations team to coordinate works ensuring that construction progressed without impeding the facility's operations. BMD initiated weekly coordination meetings between Patrick Terminal's senior management, as well as daily interactions, to ensure no unforeseen impacts were experienced.

A particular challenge was the importation of large volumes of concrete to allow 400m³ to be poured every second day, during various stages of construction. BMD engaged a full-time, dedicated logistics manager to liaise between BMD's suppliers, Patrick Terminal's security and port operations personnel. The result meant that all parties were informed about current and upcoming requirements.

The contract with BMD comprised heavy piled foundations for crane beams, underground services and extensive concrete and asphalt pavement that has been constructed to withstand the heavy loads from our straddle carriers.

The work has been undertaken in a tight time frame and in the very congested confines of our second largest container terminal.

BMD staff have been entirely professional in all aspects of the contract and have delivered a very high standard of workmanship.

I would particularly like to mention the cooperative approach which has exhibited throughout. This approach has contributed significantly to make this project such a success.

I would have no hesitation in recommending your firm.

Phil Eiszele

Patrick Terminals' Senior Project Manager

Webb Dock - Victorian International Container Terminal

International Container Terminal Services, Melbourne, VIC



Hay Point Expansion

Bechtel Australia Pty Ltd, Mackay, QLD



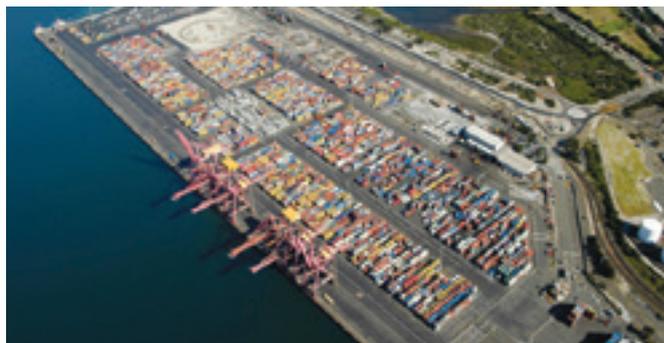
Northern Domestic Apron

Brisbane Airport Corporation, Brisbane, QLD



Port Botany Container Terminal Expansion

Patrick Corporation, Sydney, NSW



Domestic Southern Apron

Brisbane Airport Corporation, Brisbane, QLD



Dalrymple Bay Coal Terminal 7X Expansion

DBCT Management Pty Ltd, Mackay, QLD





SELF-PERFORMING WORKS

BMD is a multi-disciplinary company that can self-perform works, rather than just project manage works undertaken by subcontractors.

A key aspect of constructing infrastructure within time critical, operational environments, such as airports and ports, is having a depth of understanding about the scope and methodologies required.

Having developed the in-house capability to deliver key components allows BMD Constructions to deliver detailed scheduling, planning, resourcing and execution of critical activities, as well as early identification and mitigation of associated risks.

SELF-PERFORMING CONCRETE PAVEMENTS

After completing a number of airside concrete pavement projects utilising subcontractors, BMD recognised the certainty to be gained by controlling the entire process, particularly when tight timelines are crucial.

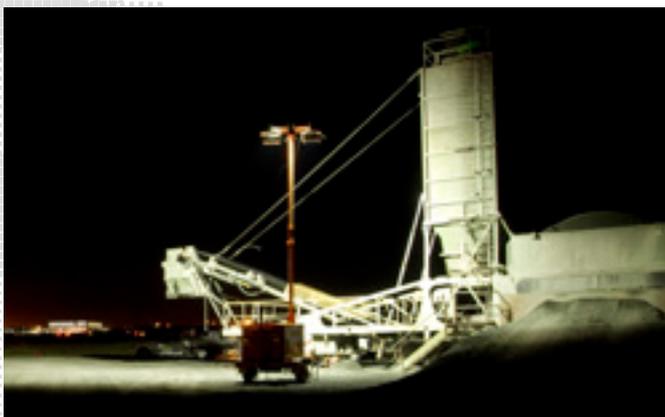
BMD invested in significant plant and equipment in order to self-perform all associated work including forming, paving, curing, saw-cutting and jointing on airside infrastructure projects.

KEY OUTCOMES

- More than \$40 million of concrete pavements were constructed at RAAF Amberley, under 24 hour shifts, ahead of schedule and with nil re-work.
- Brisbane Airport Corporation declared BMD's self-performance of more than 30,000m² of concrete pavements to be the best concrete pavement work seen to date.

SPECIALIST CONCRETE PAVEMENT EQUIPMENT AVAILABLE FOR AIRSIDE INFRASTRUCTURE WORK INCLUDES:

- steel formwork to suit 400-450mm thick concrete slabs
- concreting bridges and travelling platforms
- vibrating truss screeds
- floor saws to allow self-performance of saw cut joints
- misting/humidity tents to manage environmental concerns such as ambient temperature, wet weather and humidity.



CARE FOR QUALITY

When working in specialised operational environments including airports, ports and Defence facilities, BMD understands the detailed specifications which need to be met in order to deliver the appropriate standard of infrastructure required.

BMD works with our clients to implement processes and systems which guarantee our product is delivered to the highest quality.

RAAF BASE AMBERLEY – NATIONAL AIRFIELD MAINTENANCE WORKS

BMD Constructions was engaged to demolish and reconstruct a new runway within a strict eight week program. The working area was constrained to a 450m long section, 50m wide with no allowance for stockpiling material on site due to latent ground conditions.

Longstanding supplier, Boral, was engaged to deliver 54,000 tonnes of crushed rock material within a two week window. All materials need to be pre-approved by the designer, prior to being delivered, with a one month lead time on some tests.

Weekly coordination meetings between BMD Constructions and Boral started more than 10 weeks in advance of the works. These meetings meant that the significant challenges associated with the works could be overcome. Those challenges included restrictions to plant operating times at the quarry and stockpiling space constraints while maintaining normal supply to other clients including large Brisbane based BMD projects.

KEY OUTCOMES



Works were delivered over 14 concurrent days, on 24 hours shifts while ensuring sufficient coverage of senior project personnel to overcome any issues that arose during a shift.



Detailed handover meetings were held between shifts to ensure that the program remained on schedule.



Daily progress reports were provided to the client throughout the 14 days to provide certainty of delivery and confidence in the resumption of normal operations at the base.



Boral supplied up to 6,000 tonne of material per day, resulting in 20 truck movements per hour, over two weeks.



Compaction, proof rolling and trimming continued through the night, ready for a further 6,000 tonnes to be delivered the following day.



Installation works were completed on schedule and in full compliance with specifications.



ENVIRONMENT

Environmental management is a critical aspect to airside works and BMD has a strong reputation for proactively managing risks and working collaboratively with environmental agencies to ensure we meet the associated best practice and legislative requirements.

BMD is able to manage risks at the source and has developed innovative techniques for managing dust and foreign object debris including temporarily stabilising areas using environmentally friendly, degradable bitumen emulsion.

NEW PARALLEL RUNWAY PHASE 1: CIVIL WORKS PACKAGE, QUEENSLAND

BMD Constructions was engaged by Brisbane Airport Corporation (BAC) as the head contractor to deliver the \$46 million Phase 1 Civil Works Package for the New Parallel Runway (NPR) at the Brisbane Airport.

Preparation activities undertaken by BMD onsite included:

- 360 hectares of clearing fill and pavements for access roads
- modifications to the cross runway system
- establishment of a new grassland sanctuary for a 'near threatened' bird species
- construction of a new drainage network including a floodway drain and outlet into Kedron Brook Floodway
- excavation and treatment of over 300,000 cubic metres of acid sulphate soils.

Works undertaken landside were nestled between a number of environmentally sensitive areas including BAC's adjacent Biodiversity Zone, Moreton Bay Marine Park and nearby Boondall Wetlands and Moreton Bay, and a number of risks and impacts had to be managed and mitigated in order to safely deliver the project within the neighbouring environment. These included unpredictable ground conditions, widespread flooding rain and ground water issues.

KEY OUTCOMES

- **Winner of the Environmental Award at the 2014 QLD Engineer Australia Excellence Awards in a joint submission with BAC.**
- **Utilising existing fire tracks and old roads instead of building a new network.**
- **Rehabilitation and re-release back onto airport land of Lewin's Rail – a small bird listed as a threatened species in Queensland under the Nature Conservation Act 1992.**
- **Inspired approach to protecting the Lewin's Rail by playing call backs (sound of the bird's call) prior to works commencing each day to ensure areas were clear of the species.**
- **Installation of innovative temporary fauna bridges to allow animals to pass over water channels during clearing.**
- **Artificial flushing of tidal channels that were temporarily closed for construction works, to keep mangroves and vegetation alive.**
- **Installation of significant erosion and sediment controls, including 15,000 metres of sediment fencing to protect tributaries within the site, Kedron Brook Floodway and Moreton Bay.**



Brisbane Domestic Airport – Terminal Expansion Works

Brisbane Airport Corporation, Brisbane, QLD



Essendon Fields Stages 1 – 2

Essendon Fields Pty Ltd, Essendon, VIC



Melbourne Airport Long Term Car Park

Australian Pacific Airports Corporation Limited, Melbourne, VIC



Whyalla Airport Terminal Upgrade

City of Whyalla, Whyalla, SA



A SELECTION OF RELEVANT EXPERIENCE

Darwin International Airport and Apron Lighting Upgrade

Darwin International Airport, Darwin, NT



Busselton Regional Airport – Apron Expansion

City of Busselton, Busselton, WA



RAAF Base Amberley – National Airfield Maintenance

Department of Defence, Amberley, QLD



Sydney Airport – Seventh Street Extension

Sydney Airport Corporation, Sydney, NSW





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