



Davis Naismith & McGovern

Consulting Structural and Civil Engineers

Practice Profile & Capability Statement

August 2022 V5.0



Contents

1.0 PRACTICE PROFILE	3
2.0 CONSULTING SERVICES	3
3.0 KEY PERSONNEL	4
Jon McGovern	4
Adam Bethune	4
Andrew MacDonald	4
Anthony Askew	5
Anthony J Davis	5
4.0 PROJECT EXPERIENCE	6
4.1 Food Production Facilities	6
4.2 Warehouse and Distribution Buildings	7
4.3 Manufacturing and Production Facilities	8
4.4 Commercial Projects	9
4.5 Retail Projects	10
4.6 Health and Education Projects	11
4.7 International Projects	12
5.0 PUBLICATIONS	13
6.0 CLIENTS	14

1.0 PRACTICE PROFILE

The practice was established in 1980 operating under the name Davis Associates Pty Ltd until 1995. In the first decade, practice growth and skills were developed primarily through exposure to the industrial and commercial design and construct market and to various consultancy roles in the structural and civil design of industrial process plant facilities.

In the 1990's the practice gained exposure to the Asian market undertaking a number of assignments in industrial, commercial, tourism, housing and institutional developments primarily in Malaysia and China. Since the late 90's the practice has moved into more mainstream areas including Retail, Food & Beverage, Pharmaceutical and Health.

Four directors, Jon McGovern, Adam Bethune, Andrew MacDonald and Anthony Askew now manage the practice known as Davis Naismith & McGovern Pty Ltd. Jon joined the practice as a graduate engineer in 1989, becoming a director in 2000, Adam joined as a graduate engineer in 1994 becoming a director in 2008, Andrew joined as a graduate engineer in 1998 becoming a director in 2021 and Anthony joined as a graduate engineer in 2003 becoming a director in 2022.

The four directors maintain hands on consulting roles within the practice and are supported by seven technical and one administrative staff. A number of the key technical staff has been with the practice for over 15 years.

2.0 CONSULTING SERVICES

The practice provides specialist consulting services in structural and civil engineering associated with projects in the food & beverage, pharmaceutical, industrial, transport & distribution, retail, health and commercial fields.

The practice has developed a broad range of skills in structural and civil engineering works associated with the following:

- Food Manufacturing and Production Facilities
- Manufacturing Facilities
- Low rise industrial and commercial buildings
- Medium to high rise commercial buildings
- Medium and high rise residential buildings
- Heavy industrial plant structures
- Precast concrete structures
- Heavy duty industrial pavement and floor systems
- Stormwater management including WSUD modelling
- 3D Earthworks modelling
- 3D Structural modelling
- Expert reports



- Site retention systems and piling works

3.0 KEY PERSONNEL

Jon McGovern

*BE (Hons)(Civil), MIE Aust, CP Eng, APEC Engineer IntPE(Aus)
Director*

Jon joined Davis Associates Pty Ltd in 1989 as a graduate engineer having gained undergraduate experience in local government and in the State Electricity Commission of Victoria.

In the early years with Davis Associates Pty Ltd, Jon gained experience on a range of industrial projects as well as various projects in Malaysia and China.

During the 1990's Jon gained experience as the project engineer on a range of projects in which the practice had been appointed as Principal Consultant being responsible for planning, design, documentation and contract administration.

Jon became a director of Davis Naismith & McGovern in 2000 and in the last two decades has gained experience on various food and dairy production projects, large retail projects throughout Australian as well as various private health related projects. In recent years Jon has been heavily involved Grain Corps West Footscray Facility and Asahi Schweppes Beverage consolidation in Queensland.

Adam Bethune

*BE (Hons)(Civil), MIE Aust, CP Eng
Director*

Adam joined Davis Associates Pty Ltd in 1994 as a graduate engineer.

In the early years with Davis Naismith Pty Ltd, Adam gained experience on a wide range of large industrial projects and has developed particular expertise in the design of structural steel, precast concrete and composite steel/concrete construction.

In recent years Adam has undertaken the role as project engineer on a multi-million dollar Australian Defence Department project for which the practice had been appointed as Lead Consultant for building and civil works. Adam became a director of Davis Naismith & McGovern Pty Ltd in 2008.

Andrew MacDonald

*BE (Hons)(Civil), MIE Aust, CP Eng APEC Engineer IntPE(Aus)
Director*

Andrew joined Davis Naismith Pty Ltd in 1998 as a graduate engineer.

In the early years with Davis Naismith Pty Ltd, Andrew gained experience on a range of industrial and commercial projects in Australia and numerous industrial and commercial projects in China. This followed on with experience in heavy industrial projects in the chemical production fields throughout Australia.



In recent years Andrew has gained experience in the role of project engineer for a number of large multi-million dollar projects for the expansion and refurbishment of food manufacturing, print communication production and heavy industrial facilities. Andrew became a director of Davis Naismith & McGovern Pty Ltd in 2021.

Anthony Askew

BE (Hons)(Civil), MIE Aust, CPEng

Director

Andrew joined Davis Naismith Pty Ltd in 2003 as a graduate engineer.

In the early years with Davis Naismith Pty Ltd, Anthony gained experience on a range of industrial and commercial projects in Australia. This followed on with experience in heavy industrial projects in the chemical production fields throughout Australia.

In recent years Anthony has gained experience in the role of project engineer for a number of office developments and Caribbean Park, Scoresby including a 10 storey hotel at the site. Anthony became a director of Davis Naismith & McGovern Pty Ltd in 2022.

Anthony J Davis

Dip Civ Eng, MIE Aust, CP Eng, RPEQ

Anthony (Tony) has 50 years' experience in civil and structural engineering including a number of years with a large multi-national consultancy in the 1970's and a period with the State Electricity Commission of Victoria, both of which provided opportunity and exposure to large scale structural and civil engineering projects.

Tony formed Davis Associates Pty Ltd in 1980 practicing primarily in commercial and industrial projects including medium rise office buildings, low rise light industrial and heavy industrial manufacturing facilities. During this period Tony was also involved in the establishment of a precast concrete manufacturing business in partnership with a major client at the time gaining valuable experience in the practical application of precast concrete.

During the 1990's Tony ventured into the Asian market applying precast concrete technology to a range of projects in China and Malaysia.

In the last decade Tony has concentrated on the local market with emphasis on industrial facilities and in particular heavy duty concrete pavement technology and has been engaged on a number of major investigations into pavement failures throughout Australia. In 2021 Tony stepped back to become a consultant to the company and to focus on legal cases as an expert witness.

The practice directors are supported by experienced staff including senior civil and structural engineers, design draftspersons and administration personnel.

4.0 PROJECT EXPERIENCE

The following listing of projects is typical of commissions undertaken by the Practice over the past 25 years. The project values shown in each case are the estimated values at the time of design and construction.

4.1 Food Production Facilities

Project	Client	Type Of Contract	Consulting Service	Project Value
Grain Corp Margarine Production Facility West Footscray	Grain Corp	Tender	General Arrangement, Structural and Civil	\$105 Million
Bulla Foods Skim Milk Production Facility Colac	Metromotion	Tender	General Arrangement, Structural and Civil	\$5 Million
Asahi Schweppes Soft Drink Manufacturing Facility Brisbane & Tullamarine Warehousing & Distribution Laverton	Asahi Schweppes	Tender	Client Representative/ D & C Warehousing	\$60 Million
Chobani Foods Yogurt Manufacturing Facility Dandenong	Metromotion	Tender	General Arrangement, Structural and Civil	\$10 Million
Coca Cola Moorabbin Ongoing works on process and building upgrades	Coca Cola	Ongoing	General Arrangement, Structural and Civil	Various
Mondelez Port Melbourne Ongoing works on process and building upgrades	Mondelez	Ongoing	General Arrangement, Structural and Civil	Various
Sigma Pharmaceutical Dandenong	Wilkore	Design and Construct	General Arrangement, Structural and Civil	\$58 Million
Kraft Foods Port Melbourne	Kraft Foods	Ongoing	Structural Works involving extensive inspections and surveys, development of modification, interface and repair details, co-ordination with services, and the development of specifications and tender documentation	



4.2 Warehouse and Distribution Buildings

Project	Client	Type Of Contract	Consulting Service	Project Value
Kaufland Distribution Centre, Mickleham, Victoria 2019	Vaughan Constructions	Design and Construct	Structural and Civil	\$300 Million
Woolworths Distribution Centre Lyndhurst, Victoria 2017	Vaughan Constructions	Design and Construct	High Bay Slab and foundation design	\$250 Million
Linfox Maintenance and Warehouse Facility Erskine Park Sydney	Linfox Properties	Tender	Structural and Civil	\$30 Million
Murray Goulburn Co-Op Global Distribution Facility Laverton, Victoria (2001)	Vaughan Constructions	Design and Construct	Structural and Civil	\$54 Million
Melbourne Markets relocation Epping	Bovis Lend Lease	Design and Construct	Civil Engineering	\$300 Million
A.B. Oxford Cold Storage Facilities, Laverton Vic (1997-2012)	Vaughan Constructions	Design and Construct	Structural and Civil	\$100 Million over 15 years
Truck Maintenance Facility Linfox Logistics, Laverton	Linfox Logistics	Design and Construct	General Arrangement, Structural and Civil	\$9 Million
Ricoh Office and Warehouse Eastern Creek Sydney	Vaughan Constructions	Design and Construct	Structural and Civil	\$20 Million
K & S Transport Group Warehouse and Distribution Facility Laverton	Vaughan Constructions	Design and Construct	Structural and Civil	\$28 Million
Caribbean Gardens Business Park office warehouse developments 1988 to Present including Bonds, Cummins Diesel, Gillette Australia, Minifab, Kinchrone, WEG, Davey Pumps, Metabo etc	Wilkore Constructions	Design And Construct	Structural and Civil	\$300 Million
Cadbury Temperature controlled Warehouse and Office Development Dandenong	Vaughan Construction	Design and Construct	Structural and Civil	\$16 Million



4.3 Manufacturing and Production Facilities

Project	Client	Type Of Contract	Consulting Service	Project Value
Wilsons Transformers Site redevelopment, Glen Waverley	Wilson Transformers	Tender	Structural and Civil	\$85 Million
Australian Defence Industries Mulwala Redevelopment	Bovis Lend Lease	Tender	General Arrangement, Structural and Civil	\$400 Million
Independent Print Media Group Plant upgrade and extension, Warwick Farm Sydney	Independent Print Media Group	Tender	General Arrangement, Structural and Civil	\$100 Million
IXOM Water Treatment, Acid Storage, Batching facilities Laverton, Newcastle, Port Botany, Mudgee, Illawarra, Deer Park	IXOM	Tender	General Arrangement and Civil	\$20 Million
Olex Cables Lilydale and Tottenham, Plant Upgrades, Building Extensions, Machine Bases etc	Olex Cables	Ongoing	General Arrangement, Structural and Civil	Various
Ensign Laboratories Building extensions Mulgrave	Ensign	Ongoing	General Arrangement, Structural and Civil	Various
Ammonium Nitrate Plant Gladstone Queensland (1992, 2004)	ICI/Orica	Tender	General Arrangement, Structural and Civil	\$200 Million
Sodium Cyanide Processing Plant Gladstone Queensland	ICI/Orica	Tender	General Arrangement, Structural and Civil	\$80 Million
Chlor-alkali, Gas Plants, Nitric Acid Plants, Ephedrine Plants, in Queensland, NSW and Victoria	ICI/Orica	Tender	General Arrangement, Structural and Civil	\$200 Million
Tubemakers of Australia Steel Rolling Mill Somerton, Victoria	ABB Construction	Design & Construct	Principal Consultant	\$80 Million
Olex Cables (Tottenham & Lilydale), Tilley Soaps (Bayswater), AAA Denso (Croydon), Cola-Cola (Moorabbin and Bayswater), Peters Ice Cream (Mulgrave), Allied Pinnacle Bakery (Altona),	Various	Various	General Arrangement, Structural and Civil	Various



4.4 Commercial Projects

Project	Client	Type Of Contract	Consulting Service	Project Value
Hotel Caribbean Business Park	Caribbean Park	Tender	Structural and Civil	\$25 Million
Avalon International Airport, Avalon	Linfox Property	Tender	Structural and Civil	\$35 Million
Four Office buildings and below ground car parking, Scoresby	Caribbean Park	Tender	Structural and Civil	\$90 Million
Vic Roads Office, Tally Ho business Park	Lend Lease	Design and Construct	Structural and Civil	\$30 Million
Two Storey Office and Multi Level Car Park, Sandringham	St Hilliers	Design and Construct	Structural & Civil	\$20 Million
Harshire Centre Two Storey Office, Sunshine	Vaughan Construction	Design and Construct	Structural & Civil	\$10 Million
Panasonic Head Office 3 Level Office and associated warehouse & carpark	Wilkore	Tender	Structural & Civil	\$10 Million
575 Bourke Street, Melbourne 20 Level Office Building and associated car parking	ANZ Properties	Design and Construct	Structural & Civil	\$20 Million (1985)
383 King Street, Melbourne 12 Level Office Building and associated car parking	Dalgety Properties	Design and Construct	Structural & Civil	\$30 Million (1988)



4.5 Retail Projects

Project	Client	Type Of Contract	Consulting Service	Project Value
Masters Hardware Buildings Keysborough, Box Hill, Ballarat, Cranbourne & Mildura	Case Meallin & Associates	Tender	Structural and Civil	\$15 Million per site
DFO Cairns	Austexx	Tender	Structural and Civil	\$20 Million
Pet Barn, Repco and Amway Outlets Box Hill	Case Meallin & Associates	Design and Construct	Structural & Civil	\$4 Million
Harvey Norman Bulky Goods Expansion and upgrade Maribyrnong	Leffler Simes Architects	Tender	Structural & Civil	\$5 Million
Masters Hardware Building Pakenham	S.J.Higgins	Design and Construct	Structural	\$15 Million
Aldi, Bulky Goods and Associated car parking	Walsh Developments	Design and Construct	Structural & Civil	\$8 Million
DFO & Bulky Goods Outlet Essendon Airport	Austexx	Tender	General Arrangement, Structural & Civil	\$50 Million
Masters Hardware Buildings Box Scoresby	Robert Luxmoore	Tender	Structural and Civil	\$15 Million
DFO & Bulky Goods Outlet and associated below ground car parking Canberra	Austexx	Tender	Structural & Civil	\$100 Million



4.6 Health and Education Projects

Project	Client	Type Of Contract	Consulting Service	Project Value
Knox Private Hospital, Various stages, Emergency, four Theatres, 66 bed Ward Extension and associated car parking	Johnstaff & Healthscope	Tender	Structural and Civil	\$60 Million
Wesley College Glen Waverley new car parking and ring road	Wesley College	Tender	Civil	\$2 Million
Shepparton Hospital Expansion	Billard Leece Architects	Design and Construct	Structural & Civil	\$5 Million
1200 Bed Hospital for Ministry of Health Johor Baru Malaysia	Metro Health	Design and Construct	Structural Design	\$400 Million
Mercy Health Aged Care stage two expansion Shepparton	Mercy Health	Design and Construct	Structural & Civil	\$3 Million
Warringal Hospital Expansion	Davis Langdon	Tender	Structural & Civil	\$1 Million
Vic Rehabilitation Extension	Affinity Health	Tender	Structural and Civil	\$1 Million



4.7 International Projects

Project	Client	Type Of Contract	Consulting Service	Project Value
Premier Oil Gas Pipeline, Pipe Operating Centre Buildings and Facilities (2001)	McConnell Dowell Aust.	Design & Construct	Principal Consultants Building Works	\$100 Million
Greenwood Industrial Park Zuhai China (1997)	Greenwood Industrial	Design & Project Management	Principal Consultants and Project Managers	\$50 Million
Level Office Building, Malacca for the United Malaysian National Order (UMNO) (1996)	Metro Giant Malacca	Design & Construct	Structural	\$12 Million
Stage 1 & 2 of the New Kuah Township on the Island of Langkawi, Malaysia (1996)	Metro Giant Langkawi	Design & Construct	Structural & Civil	\$60 Million
Chinese School Site Condominiums, Langkawi Island Kedah State Malaysia (1995)	Pens Transteel Sdn.Bhd.	Project Management	Structural & Civil	\$35 Million
80 Shophouse Development for the State Economic Development Corporation, Perlis, Malaysia (1994)	State Economic Development Corporation	Tender	Structural & Civil	\$12 Million
State Economic Development Corporation New Head Offices Perlis, Malaysia (1993)	State Economic Development Corporation	Tender	Structural & Civil	\$25 Million
The New Pens Travelodge Hotel Perlis Malaysia (1992)	Pens Transteel Sdn.Bhd.	Design & Construct	Structural	\$30 Million



5.0 PUBLICATIONS

The Practice has extensive experience in investigation and research into heavy duty industrial floors and pavements in Australia including jointing and dowel systems. The following publications provide background to the independent investigations and research carried out by Davis Naismith & McGovern Pty Ltd:

- *2015 – Concrete Slab and Footing Systems for Large Industrial Building. A Critical Overview of Current Design Methods for Reactive Clay Sites*

Anthony J Davis, Davis Naismith & McGovern Consulting Engineers & Brian Ims, Douglas Partners.

Concrete Institute of Australia (2015) Concrete 2015 Conference Proceedings.

This publication focuses on engineering principles involved in the design of slabs and footing systems for larger commercial and industrial buildings situated in the highly reactive clay sites NW of Melbourne.

- *2005 – Joint Load Transfer Model Tests for Industrial Ground Supported Slabs*
Anthony J Davis and Andrew MacDonald Davis Naismith & McGovern Consulting Engineers.

Concrete Institute of Australia (2005) Conference Proceedings.

This publication includes the results of extensive 3D modelling carried out by Davis Naismith & McGovern Pty Ltd on slab jointing systems variously used in heavy duty concrete floors and pavements.

- *2001 – SFRC Pavements, A Rational Design Approach for Thickness Design*
Anthony J Davis and Leigh D Appleyard.

Concrete Institute of Australia (2001) Conference Proceedings.

This publication includes an exposé of the steel fibre industry practices in relation to steel fibre reinforced concrete floors and pavements in Australia from around 1995 through to 2003. In 2003 the UK Concrete Society published an upgraded design and construction guide for industrial floors which incorporated the majority of the recommendations made in this paper.

- *2001 – Industrial Floors and pavements in Australia: A Critical Overview of Current Design Methods*

Leigh D Appleyard and Anthony J Davis.

Concrete Institute of Australia (2001) Conference Proceedings.

This publication includes an exposé on design methods used in Australia for industrial floors and pavements with particular emphasis on the most recent Cement and Concrete Association of Australia design guidelines.

All of the above publications are available through the Concrete Institute of Australia.



6.0 CLIENTS



Case Meallin & Associates
PROJECT AND DEVELOPMENT MANAGERS

