

Curriculum Vitae



Michael Cahalane

Director - Civil & Water Engineering

(11 Years with Practice)

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Michael has been with Warren Smith & Partners since 2006 and has managed the Civil and Water Team since 2013. He has an excellent track record in the delivery of key infrastructure projects including Barangaroo Reserve, Kapooka Army Base, Northconnex M1-M2 and the University of Canberra Public Hospital. He has acted as the Design Manager on most of these projects, successfully delivering them on time and within budget.

EXPERIENCE

2006 – Current

Warren Smith & Partners

Director - Civil & Water Engineering

- Design Management of Civil Engineers and Sydney Water Designers
- Design Overview of Projects
- Design Review of Drawings and Reports
- Project Management of Major Projects

EDUCATION

- Bachelor of Engineering in Structural Engineering, Cork Institute of Technology, Ireland (2002)
- National Diploma in Civil Engineering, Cork Institute of Technology, Ireland (2000)
- Chartered Professional Engineer (CPEng)
- Registered on the National Engineering Register (NER)
- Member Institution of Engineers Australia
- Committee Member of Engineers Australia Civil and Structural Engineering Panel - Sydney Division
- Member Water Association of Australia
- Member Stormwater Industry Association, NSW
- Member Australian Society for Trenchless Technology
- Member Special Interest Group for Microtunnelling Design Guidelines
- Accredited Sydney Water Designer and Project Manager

KEY PROJECTS

Some of the more significant projects currently in progress and successfully undertaken and completed by and under the direction of Michael include:-

Sydney Water Projects

1. NorthConnex M1-M2 Tunnel
 - Numerous Sydney Water watermain, sewer and stormwater deviations as part of the Enabling Works including bore under M1.
2. Northern Beaches B-Line Bus Route
 - Designer and Water Servicing Co-ordinator for the new bus route
3. Hickson Road upgrade, Barangaroo
 - Designer and Water Servicing Co-ordinator for upgrade works including Sydney Metro and Barangaroo Central
 - Feasibility design for decommissioning SPS0016 and SPS1129
4. Barangaroo Headland Park
 - Decommissioning of existing Sydney Water Sewer Pump Station SPS0014;
 - Deviation of 700m of DN375 pipeline by microtunneling in Hickson Road.
5. University of Sydney, Australian Institute of Nanoscience
 - Deviation of DN900 stormwater trunk main around new building footprint;
 - Design of a pressurised pipe and pit system to ensure no surcharge flows into depressed site.
6. Waterloo Water Pump Station
 - Masterplanning for residential development within the pump station site;
 - Design of deviation of Sheas Creek Culvert.
7. Northconnex Motorway (M1-M2 Tunnel)
 - Water and sewer deviations associated with the new tunnel and surrounding road upgrades.
8. University of Sydney 2020 Masterplan
 - Water, sewer and stormwater infrastructure upgrades for the Campus Improvement Program
9. Barangaroo Masterplan
 - Water, sewer and reuse masterplanning for the South, Central, Crown Casino and Headland Park
10. Millers Point Housing
 - Infrastructure upgrade for sewer and water for the urban renewal of 280 properties.
11. Darling Quarter
 - Deviation of DN1800 and 1.5m by 1.5m culvert at Harbour Street and Darling Harbour.
12. Optus Headquarters
 - Adjustment works to existing DN1200 and DN750 trunk watermains
 - Creek crossing with new sewer servicing the development
13. University of New South Wales, Biological Sciences Building
 - Adjustment works to DN750 trunk water rising main and easement.

Civil Infrastructure Projects

1. Barangaroo Headland Park
 - Design of Water Reuse System including 1.5 ML storage tank and pump room located at RL -7.0m AHD for 6.0 Ha parkland;
 - Design of 1 km of bioretention swales capturing stormwater for reuse;
 - Design of Seepage Water Collection System to collect infiltration through the 20m high hill for reuse;
 - Design of Class 10 DN1050 and DN450 Stormwater and Seepage Water pipe system under 20m of fill.

2. University of Canberra Public Hospital
 - Design of 800m of public roads and two roundabouts;
 - Design of two new entries to public roads including 100m long deceleration lane;
 - Design of stormwater system for 30 Ha upstream catchment and site network including OSD basins;
 - Design of bulk earthworks for 7.5 Ha site.

3. Kapooka Army Base, Wagga Wagga
 - Design of new base 1 ML/day sewage treatment plant for irrigation and toilet flushing;
 - Design of 10 km of effluent distribution pipelines including 2 km of rising main;
 - Design of new effluent and potable water reservoirs;
 - Design of new road networks and stormwater systems.

4. Dardanelles, RSL Anzac Village, Collaroy
 - Design of roads, stormwater and services for new 83 independent living unit development.
 - Design of 16 lot sub-division including roads, earthworks, stormwater, sewer, water and gas.

5. Calvary Private Hospital, Bruce, ACT
 - Deviation of external stormwater catchment with DN900 pipe system;
 - Civil road design, pavements and stormwater.

6. 370 Old Northern Road, Castle Hill

7. Optus Headquarters, Macquarie Park
 - Design of 900m of new roadway for the largest business campus in Australia;
 - Design of 1.5 ML of stormwater detention and biofiltration basins;

8. Belrose Sub-division
 - Design of 160 lot sub-division including roads, earthworks, stormwater sewer, water and gas.

9. Byron Central Hospital
 - Design of new Byron Shire Council precinct pump station;
 - Design of 3.5 km rising main to Council's sewage treatment plant.

10. Kimbriki Administration Building
 - Design of roads, car parking, earthworks and stormwater.

11. Pinnacle Office Park, Macquarie Park
 - Design of Ryde Council road to provide a future link to Lane Cove Road;
 - Design of DN900 stormwater deviation around building footprint.