

Timothy (Tim) Dubber

TECHNICAL DIRECTOR



EDUCATION

NHDip (Civil Engineering), Port Elizabeth Technikon (now NMMU), (1993)

PROFESSIONAL AFFILIATIONS

Engineering Council of South Africa (ECSA) - Professional Technologist (Member)

SUMMARY OF EXPERIENCE

Tim has 22 years of experience in reinforced concrete and steel design including the design of water retaining structures, masonry design, steel design, building civil services, concrete rehabilitation and precast flooring systems, as well as experience in project management and supervision. His field of specialisation is water retaining structures.

He has been involved in the execution of projects in South Africa, Mozambique, Uganda, Democratic Republic of Congo (DRC), Kenya and Ethiopia. The projects have covered work for industrial, commercial, private and government clients, and have ranged in scale, complexity and skill requirements.

RELEVANT EXPERIENCE

Airports

Ethiopian Airlines, Ethiopia:

- ❖ Addis Ababa: new Maintenance Hangar for Boeing 777; 85m span arched truss hangar (2014)
- ❖ Addis Ababa: new in-flight Catering Facility; international-standard facility for production of 40 000 meals/day (2015).

Airports Company South Africa (ACSA), South Africa:

- ❖ Port Elizabeth: Departures Hall upgrade; new elevator and stair to business lounge (2014)
- ❖ Port Elizabeth: Terminal building toilet block upgrade; new toilet block and revamp of existing toilet blocks in the terminal building (2015)

Industrial and Manufacturing/Processing

Coca-Cola Fortune (subsidiary of Coca-Cola Sabco), South Africa:

- ❖ Polokwane: new 12 000m² Warehouse (2012); new PET Line Installation (2013).

Century Bottling Limited (subsidiary of Coca-Cola Sabco), Uganda:

- ❖ Kampala (Namanve): new PET Line Installation and Warehouse Extension (2009); new PET Line Installation and Warehouse Extension (2013)

Coca-Cola Sabco Sarl Moz (subsidiary of Coca-Cola Sabco), Mozambique:

- ❖ Maputo, Chimoio: new CUSS proprietary Effluent Treatment Plant (ETP) (2010)

East Africa Bottling Company (subsidiary of Coca-Cola Sabco), Ethiopia:

- ❖ Addis Ababa: new four-level reinforced concrete PET Line Installation (2012)

Nairobi Bottlers Limited (subsidiary of Coca-Cola Sabco), Kenya:

- ❖ Nairobi: new PET Hotfill Building (2015), three-level RC building (2015)

South African Breweries (subsidiary of SABMiller), South Africa:

- ❖ Alrode: new Maltings Plant (2013)

CUSS (supplier of proprietary Effluent Treatment Plants to bottlers globally):

- ❖ Multan (Pakistan), Puscana (Peru), Dubai (UAE), Bukavu (DRC), Kisangani (DRC), Boma (DRC); civil and structural infrastructure

Clover, South Africa:

- ❖ Port Elizabeth: new Milk Processing Factory (R7 million) (2006)

Parmalat, South Africa:

- ❖ Port Elizabeth: Cold Storage Distribution Centre (R4 million) (2003)

E.H. Walton Packaging, South Africa:

- ❖ Port Elizabeth: new six-storey reinforced concrete framed factory building (R15 million) (2003)

Pick 'n Pay, South Africa:

- ❖ Mahogany Ridge: new Food Distribution Centre; 3 500m² high-racking storage warehouse. (R6 million) (2002-2003)
- ❖ Western Cape: new Food Distribution Centre; 1 1500m² warehouse, three storeys (R20 million) (1998-1999)
- ❖ Eastern Cape: new Food Distribution Centre; 1 1500m² warehouse, three storeys (R10 million) (1998-1999)
- ❖ Port Elizabeth, Newton Park: revamp to existing Retail Facility; new bulk 200m² double-storey storage area, removal of internal columns and beams supporting concrete floor (R2 million) (1999-2000)

Engelhard, South Africa:

- ❖ Port Elizabeth: new 1 800m² three-storey Factory with mezzanine, 4 600m² warehouse, 1100m² utilities buildings and office block on raft foundation (R23 million) (2000-2001)

Shatterprufe, South Africa:

- ❖ Port Elizabeth: 6000m² 14 bay extension to existing factory, 8.5m deep x 12m x 30m underground plant room with 12m roof span slab forming part of the factory ground floor (undrained ground conditions), lateral earth support system (R12 million) (1998-1999)

Coega Development Corporation (CDC), South Africa:

- ❖ Coega: CDC: new Zone 3 Retail Centre; 1500m² shop floor (R7 million) (2008).
- ❖ Coega: CDC: new Zone 1 prototype Warehouse 1; 2000m² Warehouse and 400m² Office Block (R9 million) (2007).

Quality Plumbers Building Hardware, South Africa:

- ❖ Port Elizabeth: new Supply Store; 1500m² with basement, suspended RC trading floor, composite office mezzanine floor and a portal frame roof structure (2012).

Kei Cash Store, South Africa:

- ❖ Port Elizabeth: new building; 1200m² trading floor and 1200m² suspended concrete storage floor with a portal frame roof structure (R7 million) (2012)

Commercial and Private Developments:

Enterprise St Helena, St Helena Island:

- ❖ Jamestown: new Boutique Hotel; alteration and restoration to historic building and construction of new four-storey Hotel (2015)

Life Healthcare, South Africa:

- ❖ Mthatha: St Mary's Hospital extensions and upgrade; extension of existing facility in additional footprint and height, including maternity and high care wards.

Other private projects, South Africa:

- ❖ Port Elizabeth: alterations and additions to Iqhayiya College campus (R3 million) (2006)
- ❖ Libode, Transkei: St Barnabas Hospital, Phase 2; new double-storey block on poor ground conditions, large raft foundations (R7 million) (2002-2003)
- ❖ Port Alfred: St James Church: new 240m² Auditorium; RC framed structure with 5m tall columns supporting a ring beam, domed roof, reinforced ground beams and column foundations in old dune sands (R2 million) (1998-1999)
- ❖ Grahamstown: Kingswood School; repairs and renovations to historic building damaged by fire (R5 million) (1996-1997)

Public Buildings

Nelson Mandela Bay Municipality (NMBM), South Africa:

- ❖ Port Elizabeth: Gelvandale Public Swimming Pool enclosure; 43m span covering main pool and diving pool, specialised tubular section roof girders (R10 million) (2009)
- ❖ Port Elizabeth: Motherwell Thusong Centre; new Municipal building with ground floor parking and a 2400m² suspended 1st floor level (R15 million) (2009-2010)

Multi-storey buildings

Vladimir Lennon Towers, Mozambique:

- ❖ Maputo: new fifteen-storey Residential Tower block (R40 million) (2010-2011)

Office, residential and miscellaneous building projects

Apartments and Townhouses, South Africa:

- ❖ Jeffrey's Bay: Dolphin Bay; sectional title housing scheme, three-storey units built on unstable ground conditions necessitating necessitated a compacted bulk earthworks platform and reinforced strip foundations (R8 million) (1997)
- ❖ Port Elizabeth: alterations to Great Bandle apartments; situated on beachfront (R3 million) (2007-2008)

Private residences, South Africa:

- ❖ Port Elizabeth: House Schoeman - Little Walmer Golf Estate; upmarket (R5 million) (2007)
- ❖ Port Elizabeth: House Massyn - Beachview; upmarket beach house (R6 million) (2007)
- ❖ Port Elizabeth: Residence Enthoven; new 4m high reinforced concrete retaining wall (R0,6 million) (1997)
- ❖ Port Elizabeth: Residence Savage; additions and alterations to existing dwelling founded on old dune sands. (R2 million) (1998)
- ❖ Port Elizabeth: House Ellis; upmarket two-storey residence with suspended concrete slab, stepped at various levels (R4 million) (1996)

Water retaining structures

Nelson Mandela Bay Municipality (NMBM), South Africa:

- ❖ Olifantskop 45MI post tensioned Reservoir; 75m diameter x 11m wall height, with a flat in situ slab and detailed analysis of thermal load effects (estimated R58 million) (2010)
- ❖ Olifantskop 10MI post tensioned Reservoir; 38m diameter x 9.4m wall height, with a precast beam and slab roof and detailed analysis of thermal load effects (R13 million) (2010)
- ❖ Swartkops Low Level Collector Sewer, with numerous RC below-ground and submersed chambers and pump stations (R30 million) (1996-1997)

Rustfontein Municipality, South Africa:

- ❖ Rusfontein Water Treatment Works: 50m square RC Reservoir (1996)

Buffalo Municipality, South Africa:

- ❖ Kidd's Beach: BMC 5MI Circular RC Reservoir and 250 kl Break Pressure Tank (R8 million)

Amathole District Municipality, South Africa:

- ❖ Xhora: new Bulk Water Supply Scheme: Water Treatment Works and associated structures including sedimentation tanks, storage reservoirs, intake weir, pump house and administrative and residential buildings (R20 million)

Fort Beaufort Municipality, South Africa:

- ❖ Fort Beaufort: Water Treatment Works (R4 million) (1996)

Coega Development Corporation, South Africa:

- ❖ Coega: Coegakop Bulk Water Supply; 17MI reservoir with specialist post tensioned design and detailed analysis of thermal load effects (R23 million) (2008)
- ❖ Coega: new concrete Sewer Pump Station; 9m deep underground (R2 million) (2009)
- ❖ Coega: Neptune to Hogham Park: Bulk Water Supply; with a 50m long culvert crossing beneath the Transnet yard. (R4 million) (2009)

Mhlathuze Water, South Africa:

- ❖ Nsezi: 20MI post tensioned Reservoir with dome roof (R40 million)

Umgeni Water, South Africa:

- ❖ Dalton: 10MI post tensioned Reservoir; 38m diameter x 9.4m wall height (estimated R14 million)

Freyssinet, South Africa:

- ❖ Lower Thukela: 30 MI post tensioned Reservoir (PTR): end-user Umgeni water (estimated R36 million)
- ❖ Rosedale: 20 MI PTR: end-user OR Tambo District Municipality (estimated R28 million)
- ❖ Pilanesberg: 20 MI PTR: end user Magalies Water (estimated R28 million)
- ❖ Viedgesville: 20 MI PTR; end user OR Tambo District Municipality (R29 million)
- ❖ Sandile: 16 MI PTR: end user Amatola water (estimated R23 million)
- ❖ Signal Hill: 15 MI PTR: end user Amatola Water (estimated R20 million)
- ❖ Mqanduli: 12 MI PTR: end user Amatola Water (estimated R17 million)
- ❖ Maydene 10 MI PTR: end user Amatola Water (estimated R15 million)

Reinforced concrete and structural steel rehabilitation and corrosion control in aggressive coastal environmental conditions

Nelson Mandela Bay Municipality (NMBM), South Africa:

- ❖ Port Elizabeth: structural repair to Settlers Way Mount Road NW Ramp; replacement of existing low kerbs with purpose-designed concrete barriers (R4 million) (2006-2009)
- ❖ Port Elizabeth: structural repair to Settlers Way Darling and Boswell Street Bridges: concrete rehabilitation and replacement of existing low kerbs with purpose designed reinforced concrete barriers (R2 million) (2004-2005)
- ❖ Port Elizabeth: new Zwide Olympic-sized public Swimming Pool, change rooms and filter building (R4 million) (2009)

Nelson Mandela Metropolitan University (NMMU), South Africa:

- ❖ Port Elizabeth (South Campus): concrete rehabilitation of buildings (R4 million); concrete spall repair, corrosion control and protection to buildings

Clover, South Africa:

- ❖ Port Elizabeth: corrosion protection and rehabilitation of corroded steelwork of roof structure (R0.8 million) (2006)

SANRAL, South Africa:

- ❖ R61 (Tarkastad to Queenstown); Phases 1 and 2: widening of approximately 65 major culverts (R20 million structural value) (2012)
- ❖ N10 (Tafelberg to Middleburg): widening of Middelburg Interchange Bridge and approximately 30 major culverts, and construction of a new bridge over the Oompies River (R150 million civil and structural) (2004-2012)
- ❖ N2 (Port Elizabeth to East London): widening of Bushman's River Bridge, using a temporary 20m span overhead girder (designed to be re-used for spans of variable length) supporting an eccentrically-placed working load in excess of 150 tons (2010)

CAREER HISTORY

2016 – present	Bara Consult (Pty) Ltd (BARA), Port Elizabeth, South Africa: Technical Director
2011 – 2015	Hatch Goba, Port Elizabeth, South Africa: Principal Technologist (Structures, Eastern Cape)
2010 – 2011	Goba (Pty) Ltd, Port Elizabeth, South Africa: Design Head (Structures, Eastern Cape)
2007 – 2010	Dubber and Associates cc, Port Elizabeth, South Africa: Principal
2004 – 2006	Africoast, Port Elizabeth, South Africa: Senior Head of Structural Department; part time lecturer on reinforced concrete design at NMMU
2003	Ninham Shand (Pty) Ltd, Port Elizabeth, South Africa: Senior Structural Technologist
1995 – 2002	Ninham Shand (Pty) Ltd, Port Elizabeth, South Africa: Design Technician
1993 – 199	Ninham Shand (Pty) Ltd, Port Elizabeth, South Africa: Graduate Technician

PROFESSIONAL DEVELOPMENT

- Concrex Concrete Cracking Exposed, 2012
- Confrex Seminar, 2012
- Bridge Inspection Seminar, 2012
- Advanced seminar on design of water retaining structures, 2013

LANGUAGES

English, Afrikaans