



CURRICULUM VITAE OF DENNIS VIVIAN CRESS

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PROFESSIONAL PROFILE

A highly proficient and multi-skilled Senior Civil Engineer and Senior Resident Engineer offers over 51 years of combined experience in the Structural and Civil Design and Consulting Engineering profession. Specific experience includes 21 years of working with and consulting for municipalities and private consulting engineering firms and 30 years of working as a sole principal in his own consulting engineering practice [DCA Consulting Engineers].

He is especially proficient and experienced in Reinforced Concrete Structural Design for commercial and Engineering Structures, Civil Design of Township Services and Infrastructure and Contract Supervision and Administration of Structural and Civil Projects.

Furthermore offers a proven track record in providing structural and civil design and contract supervision for a wide range of Civil and Structural Engineering projects. A commercially aware professional with skilled acumen in engineering processes from conceptualisation and implementation, to testing and commissioning. Equally adds a positive and industrious drive in achieving set goals and objectives by always delivering high standards of service excellence in line with the organisational vision.

Career Objectives: Senior Structural Engineer | Senior Civil Engineer | Senior Resident Engineer |

Professional Affiliations: Member of the South African Institution of Civil Engineers [SAICE] | Member of the Engineering Council of South Africa [ECSA]. Pr. Eng. and Re-registered until 2025.

PROFESSIONAL STRENGTHS:

- ♦ Extensive technical acumen of total construction operations, with total comprehension and experience of all project specifications and drawings.
- ♦ Undertaking accurate and extensive technical and feasibility studies.
- ♦ Practical construction and construction drawing knowledge, including using a range of computer programmes to develop detailed designs.
- ♦ Effectively liaising with clients and other professional stakeholders, including architects, subcontractors and health & safety inspectors and environmental.
- ♦ Excellent project contractual administration acumen and site operational management expertise.
- ♦ Identification, testing and resolving possible design and development problems.
- ♦ Managing budgets and project resources effectively.
- ♦ Project guidance from inception, producing cost-effective engineering solutions overall.
- ♦ Sound acumen of relevant safety procedures and regulations.
- ♦ Solution-enthused problem solving.
- ♦ Proficient in leading, motivating and mentoring site staff teams.
- ♦ Meticulous and thorough in all operations, committed to providing quality engineering with integrity.
- ♦ Software Program Proficiency: Microsoft Office 2010 [Word & Excel] | Modelmaker | Pipemaker | Roadmaker | Prokon Concrete Design Suite | BILL | Bill of Civil Quantities.

VALUE ADDED DELIVERABLES | EXPERIENCE:

Senior Level Management Skills:

- ♦ Decision-making responsibilities in compliance with the organisation's policies.
- ♦ Establishment of a strategic direction; monitor performance against various approved performance indicators.
- ♦ Monitoring and evaluating of projects, successfully creating measurable goals/milestones and accomplishing desirable results.
- ♦ Provision of guidance and leadership pertaining to professional liaison/negotiations via utilisation of appropriate methods.
- ♦ Assure project deliverables within fixed budgets and in absolute timely manner.

S E N I O R C I V I L | S T R U C T U R A L E N G I N E E R |
R E S I D E N T E N G I N E E R

- ♦ Implementation and success quantification of effective production management functions.
- ♦ Budget control, revenue assurance and allocation of funds.

Structural and Civil Engineering Management Expertise:

- ♦ Developing and facilitating with detailed design; employing computer-aided design [CAD] packages for designing and drawing of projects.
- ♦ Thinking creatively and logically to resolve design and development problems.
- ♦ Accurately inspecting project sites and monitor progress in line with design specifications and safety.
- ♦ Assessing the potential risks of specific projects, as well as undertaking risk management in specialist roles.
- ♦ Managing, supervising and visiting contractors on site and advising on civil/structural engineering issues.
- ♦ Closely collaborating with colleagues and architects, subcontractors, contracting civil engineers, consultants, co-workers and clients.
- ♦ Managing budgets and further project resources, compiling and checking monthly payment certificates.
- ♦ Directing change and ensuring relevant parties are notified of changes in the project.
- ♦ Compiling, checking and approving reports; and appraising and approving project drawings.
- ♦ Assuring that a project runs smoothly and that the structure is completed on time and within budget.
- ♦ Correcting any project deficiencies that affect production, quality and safety requirements before final evaluation and project reviews.
- ♦ Assembling of project scope, as well as facilitate total tendering process accompanied by contracts adjudication.

Resident Engineering Management Expertise:

- ♦ Accurately analysing and interpreting contract documents and drawings.
- ♦ Thoroughly inspecting project sites to monitor progress and control conformance to design parameters and safety specifications.
- ♦ Directing site staff to control complex projects and administer and control site records during construction.
- ♦ Mentoring and monitoring site staff during construction supervision of projects.
- ♦ Controlling progress payments on site, assessment and control of monthly payment certificates.
- ♦ Measuring site quantities and updating site measurement files during construction progress.
- ♦ Chairing site meetings and other informal meetings held on site.

Human Resource Management:

- ♦ Drives staff management responsibilities in accordance with company's policies and applicable laws.
- ♦ Plans, assigns and directs work, appraises performance, addresses complaints and resolves problems.
- ♦ In charge of an inspirational team leadership and encouraging coaching, creating maximum productivity.
- ♦ Ensures provision of strategies, whilst effectively retaining key staff.
- ♦ Identifies potential for growth and provides significant insights and direction to the teams.
- ♦ Administers human capital policies, processes and requirements.
- ♦ Rewards and disciplines, addresses complaints including general public relations undertakings.

EDUCATION DETAILS

Bachelor in Science in Civil Engineering BSc Eng (Civil); University of Natal Durban, 1971

Majors: Structural Engineering

Senior Certificate/Matric; Glenwood High School Durban, 1965

CAREER SUMMARY

CURRENT EMPLOYMENT

Name of firm	DCA Consulting Engineers
Designation	Sole Principal - Consulting Civil and Structural Engineers
Period of work	1987 to Date

DCA Consulting Engineers: Contract Site Supervision Dossier

- ♦ *Special Maintenance on National Route R63 Section 12 from N10 (Km 0.0) to Bedford (Km 20.7) | Resident Engineer | R150m June 22–Sept 23*
- ♦ *Lesotho Highlands Development Project, Phase II - Advance Infrastructure Contract | Chief Resident Engineer | R394m Nov 18–April 20*
- ♦ *R23 Standerton–Balfour: Construction of 6 new Bridges & Roadworks | Resident Engineer | R375m Nov 16–May 18*
- ♦ *Bridal Veil Road Overpass Bridge : Midrand | Engineer's Representative | R71,2m | Nov 2014 – April 2016*
- ♦ *Richmond Pipeline, Reservoir and Pump Station | Engineer's Representative | R 205 m | Jan 2013 to Nov 2014*
- ♦ *Ohlanga Sewage Transfer Scheme: Umhlanga Rocks | Resident Engineer | R 145 m | Mar 2010 - Dec 2012*
- ♦ *King Shaka International Airport [La Mercy Durban] | Chief Engineer's Site Representative: Civil Works | R 1.6 billion | August 2007 – May 2010*
- ♦ *Remote Parking Facility ACSA [at Old Durban International Airport] | Design Engineer & Contract Supervision | R 16 m | 2007*
- ♦ *Multi Storey Car Park for ACSA [at Old Durban International Airport] | Resident Engineer | R 94 m | 2006/7*
- ♦ *Multi Storey Car Park for ACSA [at Old Durban International Airport] | Design Engineer | R 8 m | 2006*
- ♦ *Montebello Hospital | Design Engineer | R 2.5 m | 2005*
- ♦ *Reunion Eco Centre and Boardwalk | Design Engineer | R 5.5 m | 2004*
- ♦ *SATI Container Depot Southgate | Resident Engineer | R 16.7 m | 2003*
- ♦ *Westville Sewer Reticulation | Resident Engineer | R 5 m | 2002*
- ♦ *NR2 La Lucia Interchange Upgrading | Resident Engineer | R 6 m | 2002*
- ♦ *The Moreland Millennium Bridge | Resident Engineer | R 8 m | 2002*
- ♦ *Widening of Old Bush Bridge | Resident Engineer | R 1.5 m | 2001*
- ♦ *Widening of Seaview Bridge on Umhlanga Rocks Drive | Resident Engineer | R 4 m | 2000*
- ♦ *Widening of Umhlanga Rocks Drive | Resident Engineer | R 2 m | 2000*

Consulting Structural Engineer; Key Roles & Accountabilities

- ♦ Preparing accurate and comprehensive structural reports, designs and drawings.
- ♦ Performing load analysis calculations and calculating relevant reinforcement.
- ♦ Providing technical advice on appropriate construction materials, methods, revisions and additions.
- ♦ Coordinating with relevant professional staff and other stakeholders.
- ♦ Monitoring and inspecting work undertaken by contractors in order to assure overall quality control and make large scale suggestions where appropriate.
- ♦ Managing projects overall, including strategizing, implementing and adhering to deadlines.
- ♦ Performing periodic inspections in order to ensure that site is safe and secure and that the construction is progressing according to schedule.

DCA Consulting Engineers: Structural Projects Dossier

- ♦ Greenwood Park Police Station | R 35 m | Delayed | Provided structural design of three two-storey reinforced concrete structural framed offices for detectives.
- ♦ Old Supreme Court| R1. 8 m | Completed | Provided structural design and contract supervision for the repair, renovation and conversion of offices for Department of Correctional Services, including construction of a new structural steel mezzanine floor.
- ♦ Sekusile Primary School: Inanda | R 17.0m | Provided design and construction supervision of the structure of a single story DOW classroom block on R/C bases, retaining walls and ancillary buildings.
- ♦ Sinenhlanhla Primary School Verulam | R 2 m | 1994 | Provided structural design for two single storey R/C framed structures on bases, retaining walls.
- ♦ Sithengile Secondary School Clermont | R5.1m | 1994 | Provided structural design and construction supervision of a structure comprising of two three-floor and one two-floor R/C framed classroom blocks on bases, retaining walls.
- ♦ Sandown Retirement Village Pinetown | R16million | 1992 | Provided structural design and contract supervision for 140 simplex units, amenities and a frail care centre.
- ♦ Community Halls for RSA KZN D P Umlazi | R12m | 1991 | Provided structural design and construction supervision of structural steel portal framed structures founded on bases/grout augured piles.
- ♦ Adams Resource Centre for RSA KZN D P Amanzimtoti | R2m | 1991 | Provided the structural design and construction supervision of the structure of R/C framed industrial community hall, with timber roof trusses.

R E S I D E N T E N G I N E E R

- ♦ Devon Road Factory Pinetown | R2,8m | 1991 | Provided structural design and contract supervision for three-storey R/C framed industrial structure and founded on bases, with timber roof trusses.
- ♦ La Pirogue Beach Apartments Ballito | R6m | 1990 | Provided the structural design and contract supervision on four floor r/c framed structure using precast floor slab panels and founded on grout augured piles.
- ♦ Mariannridge Church-MMI Pinetown | R1.4m | 1989 | Provided structural design and contract supervision for single-storey square R/C coffer slab on bases, pyramidal shaped structural steel roof trusses each spanning 24 m.
- ♦ Medical Clinic Phoenix | R1m | 1988 | Provided structural design and contract supervision for two-storey R/C tilt up technology precast panel/column structures founded on bases.
- ♦ La Palmiers Beach Apartments Ballito R 8.9m | 1988 | Provided structural design and contract supervision Oversaw structure of eight-floor R/C framed structure founded on grout augured piles, comprising fifteen individual units.
- ♦ Chelsea Village Retirement Complex Pinetown | R 4.8m | 1987 | Provided structural design and contract supervision for six-floor R/C framed structure CIS slabs and founded on R/C piles, comprising 40 individual units.
- ♦ Post Office for DP&T New Germany | R 2.1 m | 1987 | Provided structural design and contract supervision of single suspended R/C framed structure, including bases and timber roof trusses.

Consulting Civil Engineer; Key Roles & Accountabilities:

- ♦ Liaising with client and other stakeholders on engineering and construction requirements.
- ♦ Analysing survey, mapping and materials-testing data with appropriate computer modelling software.
- ♦ Drawing up engineering layout plans using computer aided design packages.
- ♦ Determining whether projects are workable by assessing materials, costs and time requirements.
- ♦ Assessing the environmental impact reports and risk assessments connected to all projects.
- ♦ Managing, directing and monitoring progress during each phase of a project.
- ♦ Ensuring that sites meet relevant legal guidelines, as well as health and safety requirements.

DCA Consulting Engineers: Civil Projects Dossier

- ♦ Karridale Road Sewer Reticulation [Kingsburgh] | R 5 m | 1999 | Performed joint venture with Goba Moahloli & Associates, comprising sewer reticulation to serve 316 existing housing units and comprising two steel pipe bridge crossing constructions [on piled foundations over the Little Amanzimtoti River, including 11 600 m of UPVC pipework and 435 precast concrete manholes].
- ♦ Township Road Upgrading Ladysmith | R4m| 1997 | Drawing & design of a township road upgrade of 17.1 kms.
- ♦ Lovu Development Phase 5B Kingsburgh | R6m | 1997 | Drawing and design of civil infrastructure and was responsible for site supervision of infrastructure for 813 sites, comprising 9 500 m UPVC sewer pipes, 256 p/c M/H, 1 060 m R/C S/W pipes, 18 470 m² premix surfacing and 6 400 m concrete kerbing.
- ♦ Lovu Phase 5B Service Crossings Kingsburgh | R1m | 1996 | Responsible for design and drawing and construction supervision of pipe jacking of three 900 dia R/C pipe crossings, comprising a total length 110 m, carrying sewer connections under MR 21.
- ♦ Lovu Phase 2B Bus Route Kingsburgh |R 3.5million| 1996 | Drawing and civil design and contract supervision for major 2.5 km bus route and collector road, comprising 20 000 m² premix, 1 150 m s/w drainage pipework and serving as infrastructure for 813 sites.
- ♦ Sandown Village Pinetown R16m| 1995 | Drawing and design of engineering infrastructure for 140 simplex units, amenities and a frail care centre, including roadworks, storm water drainage and sewer reticulation.

EMPLOYMENT HISTORY SYNOPSIS

DCA Consulting Engineers / 1987 – 2023 Present - Sole Principal

OJaP: Partners Pinetown, Consulting Engineering Practice; **Partner – Structural and Civil Design and Contract Administration**, [1979 to 1987]

SCBS Durban Consulting Engineering Practice; **Design Engineer and Resident Engineer at Cato Ridge Abbotoir** [1974 to 1979]

City Engineering Department Durban; **Structural/Civil Design Engineer** [1972 to 1974]

PERSONAL DETAILS

Date of birth, Nationality : 11 February 1948, South African **Health** : Excellent

Languages English | Afrikaans **Extracurricular activities** : Mountain Biking | Golf | Travelling

Driver's license : Light Motor Vehicle **Marital status** : Married, two children, 5 grandchildren

Extracurricular activities : Mountain Biking | Golf | Travelling