

## Curriculum Vitae



**Robert E. Dale, B.A. Sc,  
P.Eng**

429 Exmouth Street, Suite 208

Sarnia, Ontario

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Civil/ Structural/ Mechanical

Bob Dale has 40 plus years experience in Civil/ Structural and Mechanical Engineering encompassing Industrial, Commercial, Multi Residential and Educational Buildings throughout Canada and the United States.

### PROFESSIONAL PROFILE

- Project Management
- Building Audits
- Strong Structural/ Mechanical Design Skills
- Specification Writing
- Problem Solving
- General Management
- Site Inspection
- Contract Negotiations
- 40+ years experience
- Principal Engineer of Record for Robert E. Dale Limited.
- Project Estimation

### PROFESSIONAL EXPERIENCE

Robert E. Dale Limited, Consulting Engineer  
September 1991- Present  
**Senior Engineering Manager- Previous Principal**

#### Overview of Achievements- Civil Engineering

- ➔ Civil Design associated with the Niagara Falls Ontario Retirement Residence
- ➔ Civil Analysis and Detailed Design associated with slope Failure at Stormwater Retention Pond at Shell Canada

- Rail Storage Expansion at Bulk Loading Barn, Cargill Limited and Novacor Chemicals (Mooretown)
- Civil/Structural/Mechanical Design associated with Nitric Acid Plant Spill Containment Project at Terra International Inc.
- Civil/Structural/Mechanical Design associated with Urea I and II Spill Containment Project at Terra International Inc.
- Civil/Structural/Mechanical Design associated with Ammonia II Project at Terra International Inc.
- Civil/Structural/Mechanical Design associated with A.N. Prills Discharge Containment Facilities at Terra International Inc.
- Design of Oil Containment Facilities and Flow Monitoring Device at Plant Outfall at Terra International Inc.

#### **Overview of Achievements- Structural Engineering**

- Structural Design and Field Reviews associated with the following Retirement Residences.
  - Waterloo, Ontario Retirement Residence
  - Regina, Alberta Retirement Residence
  - Burlington, Ontario Retirement Residence
  - Lethbridge, Alberta Retirement Residence
  - Niagara Falls, Ontario Retirement Residence
  - Sudbury, Ontario Alert Care Facility
  - Mississauga, Ontario Alert Care Facility
  - Thunder Bay, Ontario Alert Care Facility
  - Sault Ste. Marie, Ontario Alert Care Facility
  - Markham, Ontario Retirement Residence
  - Hamilton, Ontario Retirement Residence
  - Brooklin, Ontario Retirement Residence

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- Nepean, Ontario Retirement Residence
- Whitby, Ontario Retirement Residence
- Peterborough, Ontario Retirement Residence
- Sarnia, Ontario Retirement Residence
- Arbour Lake (Calgary), Alberta Retirement Residence
- Victoria, British Columbia Retirement Residence
- Moose Jaw, Saskatchewan Retirement Residence
- Saint John, New Brunswick Retirement Residence
- Fredericton, New Brunswick Retirement Residence
- Structural Design associated with the Future Shop, Sarnia, Ontario Commercial Establishment
  - Structural Review of Elementary and Secondary Schools in Lambton-Kent Counties to review snow Loading Capacities
  - Structural Design associated with the Zellers (Sarnia) Commercial Expansion
  - Structural Review and Upgrade of CAA-AAA Auto Club & Travel Agency (Sarnia) Administration Building
  - Structural Design associated with the Upgrade of Existing FRP Liner Support and Stay-Rod System at Ontario Hydro Lambton T.G.S.
  - Preliminary Design and Cost Estimate for proposed Process Pipe Bridge connecting Imperial Oil Refinery and Esso Chemical Area 3, near Imperial Avenue
  - Structural review and Report on Esso Chemical Ltd. HOIS Workshop Roof Structure
  - Structural Design of new Structural Steel Access Platform, at Styrene II Plant at Novacor Chemicals Ltd.
  - Structural Design associated with new Lunch Room/Locker Room facilities at Maintenance Building at Sunoco
  - Structural Design of new MCC Building at Sunoco Inc.
  - Structural Design associated with installation of new Fire Training “Burn” Building at Lambton College Industrial Fire School
  - Study of Existing Process Pipe Crossings between Imperial Oil Refiner and Esso Chemical Plant 3 to assess mechanical requirements to facilitate the installation of a new overhead process pipe bridge crossing Vidal Street so as to abandon the existing

pipe ways under Vidal Street

- Structural Analysis of existing Partek Insulation Warehouse roof to accommodate increased loading as a result of New Bag House Installation
- Structural Modifications at Polysar Terminal associated with new Manway Installation

### **Overview of Achievements- Mechanical Engineering**

- Mechanical Design and Field Reviews associated with the following Retirement Residences.

Waterloo, Ontario Retirement Residence

Regina, Alberta Retirement Residence

Burlington, Ontario Retirement Residence

Lethbridge, Alberta Retirement Residence

Niagara Falls, Ontario Retirement Residence

Sudbury, Ontario Alert Care Facility

Mississauga, Ontario Alert Care Facility

Thunder Bay, Ontario Alert Care Facility

Sault Ste. Marie, Ontario Alert Care Facility

Markham, Ontario Retirement Residence

Hamilton, Ontario Retirement Residence

Brooklin, Ontario Retirement Residence

Nepean, Ontario Retirement Residence

Whitby, Ontario Retirement Residence

Peterborough, Ontario Retirement Residence

Sarnia, Ontario Retirement Residence

Arbour Lake (Calgary), Alberta Retirement Residence

Victoria, British Columbia Retirement Residence

Moose Jaw, Saskatchewan Retirement Residence

Saint John, New Brunswick Retirement Residence

Fredericton, New Brunswick Retirement Residence

- Engineering Assessment and Upgrade to HVAC Control System at Esso Chemical Ltd. PVC Plant and Reactor Building
- HVAC Upgrade at Imperial Oil NSIS Control Building
- HVAC Review and Upgrade at Wawanosh Industries Ltd., Sarnia, Ontario
- Arena Floor replacement and Refrigeration System Upgrade at Germain Arena, Sarnia

### **Overview of Achievements- Industrial**

- Civil/Structural Design of new 12 0000 sq. ft. expansion to Cuddy Food Products, Food Processing Plant, London, Ontario including reinforced and new pre-stressed concrete design, structural steel building equipment foundations
- Civil/Structural/Mechanical Design associated with new 60 000 sq. ft. Plastic Extrusion Plant, London, Ontario
- Civil/Structural/Mechanical/Electrical Design associated with new Dry Ice Plant at Liquid Carbonic CO<sup>2</sup> Plant, Sarnia, Ontario
- Civil/Structural/Mechanical Design associated with new Hydrogen Sulphide Transfill Facility at Liquid Carbonic Specialty Gas Division, Corunna, Ontario
- Civil/Structural/Mechanical/Electrical Design associated with ChemFab Mechanical Contractors Inc. Plant Expansion, Sarnia, Ontario
- Architectural/Engineering Building Extension to GLIS (Division of Glascar Limited) Sarnia Reconditioning Plant
- Design and Layout of Industrial Tank Truck Wash Facility for Rapid Tank Cleaning Limited, Sarnia, Ontario
- Architectural/Civil/Structural/Mechanical Design associated with renovation of Existing Wawanosh Administrative and Lougar Street Industrial Building for Sarnia and District Association for Community Living

### **Overview of Achievements- Office/ Administration**

- Structural design associated with the Cathcart Blvd. Public School Renovations (Sarnia, Ontario)
- Civil/Structural/Mechanical/Electrical design associated with the West Lambton Community Health Service Building (Sarnia, Ontario)
- Architectural/Structural/Mechanical design of new Administrative Building at Dupont Canada Inc.
- Architectural/Engineering design for Sarnia Transit Off-Street Transfer Facility
- Architectural/Engineering Building Extension to Bayview Chrysler Dodge Administrative Sales Building
- Building Expansion for Lambton College Industrial Fire School Administration Building
- Architectural/Civil/Structural/Mechanical design associated with renovation of existing 6700 sq. ft. Dante Club Community Hall, Sarnia, Ontario
- Civil/Structural/Mechanical design of new 6900 sq. ft Administration Building at Tecumseh Gas and Storage Consumers Gas Company Limited
- Architectural/Structural/Civil design associated with new 3200 sq. ft. Center by the Bay Administration Building, Sarnia, Ontario
- Architectural/Structural/Civil design associated with new 7500 sq. ft Bank of Montreal/Lambton Pro Health Office Building in Sarnia, Ontario

#### **Overview of Achievements- Commercial**

- Civil/Structural/Mechanical/Electrical design associated with the Bargain! Shop (Westwood Mall - Mississauga, Ontario) Commercial Establishment
- Civil/Structural/Mechanical/Electrical design associated with the Bargain! Shop retail developments located in the following cities:

Sarnia, Ontario  
Meaford, Ontario  
Wawa, Ontario  
Hearst, Ontario  
Wingham, Ontario  
Keswick, Ontario  
Walkerton, Ontario  
Ajax, Ontario  
Blind River, Ontario  
Corunna, Ontario

Melfort, Saskatchewan

- Architectural/Civil/Structural/Mechanical/Electrical design associated with the Bayview Chrysler Car Dealership Expansion located in Sarnia, Ontario
- Architectural/Civil/Structural/Mechanical/Electrical design associated with the Mitsubishi Used Car Showroom Sales Office located in Sarnia, Ontario
- Structural design associated with the Park Lane Motors New Car Facility located in Sarnia, Ontario
- Civil/Structural design associated with the Jack Casselman's Nissan New Car Facility located in Sarnia, Ontario

Dale, Ferrera and Associates

1990 to 1991

**Principal**

Achievements:

- Principal and Chief Civil/ Structural Engineer for all Projects Completed by Dale, Ferrera and Associates.

Brian G. Butler and Associates (1985) Ltd.

1979 to 1990

**Engineering Manager**

Achievements:

- Engineering Manager for all Projects Completed by Brian G. Butler and Associates.

## EDUCATION

University of Waterloo- Class of 1974

**Civil Engineering (B.A.Sc.)**

## AFFILIATIONS/ CERTIFICATIONS

- Member of Professional Engineers of Ontario (P.E.O.), 1974
- Received Engineering Consultant Designation, 1990
- Member of Canadian Society of Professional Engineers (C.S.P.E.)
- Member of the Association of Professional Engineers and Geoscientists of New Brunswick (A.P.E.G.N.B.) since 2000
- Member of the Association of Professional Engineers and Geoscientists of Saskatchewan (A.P.E.G.S.) since 2001
- Member of the Association of Professional Engineers and Geoscientists and Geophysicists of Alberta (A.P.E.G.G.A), since 2001
- Member of the Association of Professional Engineers and Geoscientists of British Columbia (A.P.E.G.B.C.) since 2001
- Member of the Association of Professional Engineers and Geoscientists of the Province of Manitoba (A.P.E.G.M.) since 2003

## REFERENCES

Longo Management- Mr. Ron Longo 519 542 4050

First Solar- Mr. John D. King, PE 908 809 4353

Rombald Inc- Mr. Roy Ojala, P. Eng- 519 570 5002

Lenity Architecture- Mr Dan Roach, Mr Marcus Hite- 503 399 1090