

**LARRY J. McQUAID**  
Civil Engineer



**Area of Expertise:**  
**Transportation**  
**Infrastructure**

## MEMBERSHIPS

- Association of Professional Engineers of Prince Edward Island (APEPEI)
- Councillor, APEPEI (1997-1999)
- Board of Governors, University of P.E.I. (1988-1991)
- Summerside Chamber of Commerce (Government Relations) (1997-Present)
- Design and Construction Industry Council (D.C.I.C.) (1988-90)
- P.E.I. Roadbuilders and Heavy Construction Association (1990-1997)
- Transportation Association of Canada (TAC)
- Institute of Transportation Engineers
- Commissioner of the P.E.I.L.C.C. (1993-1996)

## EDUCATION

- 1977-1979 B. Eng. Civil - Dalhousie University, DalTech, Halifax, Nova Scotia.
- 1974-1977 Certificate of Engineering - University of Prince Edward Island, Charlottetown, P.E.I.

## PROFESSIONAL EXPERIENCE

1983-Present **PRINCIPAL OF DELCOM ENGINEERING LTD.**

Duties at Delcom Engineering Ltd. include a wide variety of Civil Engineering projects with a special emphasis placed upon planning, designing, providing project management and inspection services for highway and bridge systems.

### Marine Projects

- Predesign, detailed design, construction inspection and administration for a new harbour facility at Lennox Island. Demolition of existing structure, detailed design of steel sheet piling, wales, tie rods, surface treatment and rip rap placement was provided.
- Design Team Leader for Bridgetown Bridge repairs included partial abutment reconstruction, steel pile reinforcement and expansion joint replacement. Special construction techniques were developed due to work being carried out in an environmentally sensitive area.
- Design team leader for a new reinforced concrete bridge required to replace an existing structure at Dunedin, Prince Edward Island. Detailed approach design required consideration to provide a vertical crest curve for bridge portion.



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- Design Team Leader for a new reinforced concrete bridge and related steel sheet piling to replace an existing bridge over the Pisquid River.
- Construction Management Team Leader for Covehead Repairs. Work included repairs to abutments, wingwalls and deck replacement.
- Design Team Leader for a new reinforced concrete bridge at Mt. Stewart, PEI. Approaches were raised to suit projected tidal increase in elevations. Steel sheet piles, storm drainage system, utility line relocation and related items included.
- Investigated bridge configuration and alignment of Halls Bridge, Prince Edward Island.
- Design Team Leader for investigation of abutment movement and bearings replacement at abutments of Stanley Bridge.
- Design Team Leader for evaluation of an existing bridge and widening of abutments, piers and deck of Cain's Bridge, Route #2, Prince Edward Island.
- Design Team Leader for repairs and partial abutment reconstruction of the Ross Corner Bridge.
- Construction Manager and Design Team leader of a new reinforced concrete MacAusland's Bridge located along Route #2, Prince Edward Island.
- Design Team Leader for of numerous additional bridges.
  - Clyde River Bridge consisted of precast concrete arches on a pile foundation. A temporary on-site detour permitted continuous traffic flow during construction.
  - Lennox Island Bridge included repairs to beams, pile caps, abutments and deck. Steel pipe piles were repaired and protected from ice forces with the addition of concrete collars.
  - Gillian's Bridge consisted of a multi-span reinforced concrete slab bridge constructed to enhance river water quality on Prince Edward Island.
  - Grand River Bridge was a multi-span reinforced concrete slab bridge required to replace an existing structure. Road approaches were protected with the placement of rip rap materials.

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- Oak Drive Overpass was constructed using precast prestressed concrete beams.
- Goff's Bridge was required to replace an existing structure. This multi-span concrete structure was raised on the vertical plane to minimize effects of flooding in the area.
- Construction Manager for the replacement structure located at West River, Prince Edward Island. This two-span steel box girder structure was constructed on a vertical curve.

### **Street/Roads**

- Street Design for MacEwen Road upgrading. A new street structure was designed complete with concrete curbs, sidewalk and a storm drainage system.
- Gulf Shore Highway Project consisted of the geometric design of 13 kilometres of roadway located in the Prince Edward Island National Park. This work was the first project carried out in the Province that included total station pick-up and a completely digitized design.
- Western Road included the detailed design and construction management of over 5 kilometres of arterial highway located in Prince Edward Island. Diversions, sight line requirements, property acquisition and utility relocation details were included in the design.
- Lead Designer for new industrial park street located in Slemon Park, PEI.
- Study options for the main access street to the City of Summerside. Reviewed alignments, utility relocation, infrastructure requirements and traffic patterns.
- Traffic Analysis including conceptual layout for numerous options of a major intersection at the entrance to the City of Summerside.
- Lead Designer for approximately two kilometres of new street construction at Canadian Forces Base Gagetown, New Brunswick.
- Lead Design for widening collector streets and converting from a two-lane to a four-lane street. Granville Street is a major access road for the City of Summerside, PEI.
- Design and Construction inspection for the Bloomfield Industrial Park, Bloomfield PEI. Prepared detailed drawings and specifications for street, parking lot and drainage outlet.

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- Design and Construction Management for a major four-lane street through downtown Summerside. Harbour Drive is a street constructed along the City's Waterfront.
- Subdivision Design and Construction Management for numerous subdivision streets.
  - Sea Meadow Estates
  - LeFurgey Subdivision
  - Princeton Subdivision
  - Miscouche Subdivision
  - Summerside North Slope Development
  - Stafford Estates
  - Gavin Estates
  - Baglole Subdivision
- Lead Designer for the Granville Street/Route #2 Intersection. Included dual left turn lanes, signals, ramps and approaches.
- Lead Designer for 3 kilometres of Arterial Highway along Route #2 on PEI between Fredericton and Hunter River.
- MultiHighway Design for the Oak Drive Overpass project including steel arch for surface water control, overpass approaches and support streets.
- Lead Designer for 1.5 kilometres of approach and service streets for the East Prince Health Facility located in Summerside, PEI.
- Lead Designer for Crowbush Resort access road. The road consisted of a weaving alignment through a wooded area.
- Design and Construction Management for over a dozen bridge structure approaches.

**Civil Projects**

- Design and Construction Management for a complete storm drainage system and parking lot for the new East Prince Health Facility in Summerside, PEI.
- Business Improvement Area, Lead Designer for the reconstruction of the Summerside Business Improvement Area. Work included a total reconstruction of the downtown area resulting in new municipal infrastructure including water, sewer, storm, electrical and communication lines. A new street was constructed along with brick pavers, streetscape items, curbs and signage.
- Team Leader for the Design and Construction Management of a major tourist attraction - Spinnaker's Landing, PEI. This tourist attraction is constructed over water and consists of a large platform that supports entertainment, activities and shops.

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- Team Leader in Lennox Island Streetscape Project. Includes new walkways , parking lot, storm drainage and street lights.
- Design Storm Drainage System, Arcona Street, Summerside PEI.
- Design Major Storm Drainage System, Downtown Summerside with 2100mm diameter outlet pipe.

**Civil Studies**

- Traffic Analysis for all Major Intersections in the City of Summerside. Included a rating scale of major traffic routes and recommendations for upgrades.
- Intersection analysis for numerous locations throughout Prince Edward Island.
- Study of Storm Drainage Patterns for the entire boundaries of the City of Summerside. Included sizing of all major culverts and structures for various return periods and determination of typical urban runoff coefficients.
- Team Leader for the Feasibility Analysis of the Summerside Economic Enhancement Project. Work included plan preparation for infilled areas located within Summerside Harbour area, along with dredging options and soil protection concepts.
- Team Member, design of sitework, parking areas and storm drainage system for Summerside Wellness Centre.