



EFFECTIVE INNOVATIVE SOLUTIONS

## DAVID R.J. MORRIS, P.Eng, PEILS, CLS

Principal/Manager, Morris Geomatics & Engineering Ltd. – Charlottetown

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### PROFESSIONAL EXPERIENCE

David Morris established Morris Geomatics & Engineering Ltd. in 2018 as a provider of geo-spatial data for the public using advanced and changing technologies. He brings with him more than 30 years of experience as a Professional Engineer and Land Surveyor with specialization in land development, and engineering surveys.

### SELECTED PROJECT EXPERIENCE

#### Cadastral Surveys

- » **East Suffolk Road Extension (2019-2021):** The petitioner made application to the Island Regulatory and Appeals Commission, appealing a decision made by the PEI Department of Transportation Infrastructure and Energy to reject and entrance to their property. Field surveys were carried out and building upon a research paper prepared by David Morris on roads in Prince Edward Island, and an opinion and evidence was provided to support the position for a specific road classification.
- » **Waterfront Boardwalk (2020-2021):** Contracted by the City of Charlottetown to determine the extents of title to various access points along the Charlottetown waterfront from Victoria Park to Navy Quay. Field surveys were carried out of the extents of the waterfront. Extensive research included, locating letters patent to water lots, historical records of City Council Minutes, Provincial Orders in Council, Media records etc. Preliminary plans for findings and report of opinion provided.

### PROFESSIONAL BACKGROUND

**Principal/Manager, Morris Geomatics & Engineering Ltd.,** Charlottetown, PE (2018 – Present)

**Manager, Geomatics Charlottetown,** WSP Canada Limited, Ottawa, ON (2015-2018)

**Provincial Chief Surveyor, Prince Edward Island,** Province of Prince Edward Island, Charlottetown, PE (2010 – 2017)

**Manager, Geomatics Ottawa,** MMM Group Limited, Ottawa, ON (2014-2015)

**Chief Surveyor, Land and Environment,** Prince Edward Island Department of Transportation and Infrastructure Renewal, Charlottetown, PE (2009 – 2014)

**V.P. Operations, Brunello Estates,** Canadian International Capital Inc., Halifax, NS (2008 – 2009)

**President,** Morris Land and Engineering Surveys Inc., Charlottetown, PE (1998 – 2009)



- » **Jenkins Road, Marshfield (2020):** Contracted by a group of landowners to provide an opinion regarding the status of the Jenkins Road, (Private or Public). Extensive research was carried out on the title to the properties, field work, interviews with elders and a final plan and report was prepared, providing opinion on the road. Advice was given prior to the survey being carried of the benefits and costs of a road status determination, especially the benefits of a “private determination” which was the status quo. The opinion found the road to be public, un-designated.
  
- » **City of Charlottetown – Public Road Boundaries, (2020-Present):** Contracted on behalf of the City of Charlottetown to establish the limits and boundaries of various public roads within the city of Charlottetown.
  
- » **Big Pond Road/ Capes Road (2020):** Contracted on behalf of the defendant, research documents and a report were prepared and provided as part of defense on the position and status of the Capes Road located on the northside of Kings County.
  
- » **Prince Edward Island National Park, Tracadie, (2019-2020):** Contracted under authority of Parks Canada and the Surveyors General Branch, plan, and field notes for the additions to the Prince Edward Island National Park were carried out during the period. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.
  
- » **Prince Edward Island National Park, Rustico to Tracadie, (2018):** Contracted under authority of Parks Canada and the Surveyors General Branch, plan, and field notes for the additions to the Prince Edward Island National Park were carried out during the period consisting of the survey of 60 km of shorefront. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.
  
- » **Prince Edward Island National Park, Greenwich, (2017):** Contracted under authority of Parks Canada and the Surveyors General Branch, plan, and field notes for the additions to the Prince Edward Island National Park were carried out during the period. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.
  
- » **Lennox Island Indian Reserve No.1 (2016):** Contracted under authority of the Surveyors General Branch, plan and field notes for the Re-Survey of the Lennox Island First Nation were carried out during the period. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.
  
- » **Lennox Island Indian Reserve No.5 (2017):** Contracted under authority of the Surveyors General Branch, plan and field notes for the Re-Survey of the Lennox Island First Nation were carried out during the period. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.



- » **Darrach GSC-13884, Application under Quieting Titles, Launching Place, PE (1994-1995):** The petitioner claimed title to a 12-acre sand bar which had developed on the seaward side of his property. Contracted by objectors to the title application, a survey and expert opinions reports was presented as evidence in the Supreme Court of Prince Edward Island. Responsibilities included a full boundary survey, title search to the subject properties and associated adjoining properties, interviewing elders of the fishing community, and preparing a plan of survey and experts report on the finding of the survey to support their claim that the lands were not part of the petitioners' lands. In addition to providing an expert's opinion in the Supreme Court, David provided advice to counsel as a land Surveyor during the trial.
- » **Clow, Wallace Elmer, 2003 PESCTD 37, Application under Quieting Titles, Grand Tracadie PE, (2002-2003):** A dispute between neighbours about the ownership of a piece of property, where both parties had claim to property based on a paper chain of title. Contracted by the petitioner, a plan of survey, experts report, and court evidence was provided based on an in-depth field survey, title search, analysis of historical aerial photography, analysis of historical fencing and interviews with community elders. The report provided opinion to support the petitioners claim to title in the subject land.
- » **Government of Prince Edward Island v. Wilfred R. Gillis 2006 PESCAD 14, Indian River (2004-2006):** The Government of Prince Edward Island acted against Gillis for stopping up a lane and denying public access to the shore. The government claimed the lane to be a public right of way. Contracted by the defendant, an expert's report was prepared based on field inspection, search of title, aerial photography, fencing records of government practises regarding public roads and interviews with community elders to support his claim that the lane was private property and not a public road.
- » **Welch, Jane, Application under Quieting Titles, Fortune Harbour, PE (2013):** The petitioner made application for a court order of ownership to lands situated at Fortune, PE, that included a road and beach used by the public. As Chief Surveyor for the Province of Prince Edward Island pursuant to the Land Survey Act, and Roads Act, a survey of the lands together with title search, review of historical records was undertaken. A plan of survey and associated experts report was prepared outlining the finding of the survey and delivered to the office of the Attorney General for their action. Finding of the survey included, Public Lands, lands formed through accretion to the sea floor, un-granted crown lands, public rights of way, and public lands occupied by others statue barred from obtaining title.
- » **Prince Edward Island National Park, Cavendish – Greenwich, (1997-2008):** Contracted under authority of Parks Canada and the Surveyors General Branch, plan, and field notes for the additions to the Prince Edward Island National Park were carried out during the period. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.
- » **Lennox Island Indian Reserve No.1 (2000-2009):** Contracted under authority of the Surveyors General Branch, plan, and field notes for the additions to Lennox Island First nation were carried out during the period. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.



## Engineering Surveys

- » **Project Manager, New Glasgow Structure Replacement, New Glasgow, PEI (2021):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, and reporting to project authority; construction layout, and quality control monitoring, as-built records.
- » **Project Manager, Parks Canada, Cavendish Campground, Cavendish, PEI (2020-2021):** Responsibilities included establishing 3D project control, high precision surveys, adjustments topographic surveys.
- » **Project Manager, Slemon Park Microgrid Project, PEI Energy (2020- present):** Responsibilities included establishing 3D project control, high precision surveys, adjustments topographic surveys, legal boundary surveys.
- » **Project Manager, Atlantic Beef Products, Albany, PEI (2020-2021):** Responsibilities included establishing 3D project control, high precision surveys, adjustments topographic surveys.
- » **Project Manager, East Point Engineering, Green Gables Golf Course Storm Water Management Survey, Cavendish, PEI (2020-2021):** Responsibilities included establishing 3D project control, high precision surveys, adjustments topographic surveys.
- » **Project Manager, Summerside Multi-purpose Dome, City of Summerside (2020):** Responsibilities included establishing 3D project control, high precision surveys, adjustments topographic surveys.
- » **Project Manager, Charlottetown Government Garage Expansion, City of Charlottetown (2020):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, topographic surveys, and legal boundary surveys.
- » **Project Manager, Hunter River Bridge Replacement, Hunter River, PEI (2020):** Responsibilities included establishing 3D project control, high precision surveys, adjustments and reporting to project authority; construction layout, and quality control monitoring, as-built records
- » **Project Manager, Iris Bridge Replacement, Iris, PEI (2020):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, and reporting to project authority; construction layout, and quality control monitoring, as-built records.
- » **Project Manager, North Lake Bridge Replacement, North Lake, PEI (2019):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, and reporting to project authority; construction layout, and quality control monitoring, as-built records.



- » **Project Manager, Cornwall Active Transportation Corridor Cornwall, PEI (2019 - present):** Responsibilities included establishing 3D project control, high precision surveys, adjustments topographic surveys.
- » **Project Manager, Cornwall By-Pass Cornwall and Clyde River Overpass, Cornwall, PEI (2018 - present):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, and reporting to project authority; construction layout, and quality control monitoring, as-built records.
- » **Project Manager, Murray River Bridge Replacement, Lorne Valley, PEI (2018):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, and reporting to project authority; construction layout, and quality control monitoring, as-built records.
- » **Project Manager, Hazel Green and Lorne Valley Bridge Replacement, Lorne Valley, PEI (2018):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, and reporting to project authority; construction layout, and quality control monitoring, as-built records.
- » **Project Manager, Morell Arena Board Replacement, Morell, PEI (2018):** Responsibilities included project costs, establishing project control, adjustments, 3-D scanning of arena for new board placement, reporting.
- » **Project Manager, Highway 417 Engineering Surveys, Ottawa, Ontario (2014 – 2015):** Responsibilities included project costs, establishing project control, adjustments, reporting and the acquisition of topographic information for the design and upgrades to the 400 series Highway through Ottawa. Project data was acquired through a combination of GNSS observations, precision levelling, conventional TSSS and ground-based 3D HDS scanning.
- » **Project Manager, Ottawa Light Rail Transit (OLRT), Ottawa, Ontario (2014 – 2015):** Responsibilities included establishing 3D project control, high precision surveys, adjustments, and reporting to project authority; legal surveys, and quality control monitoring. Further to the technical as Project Manager, the role of advisor to technical and legal matters was provided on an ongoing basis.
- » **Project Manager, Carleton University, Ottawa, Ontario (2014 – 2015):** Responsibilities included establishing 3D project control, deformation surveys to monitor the vertical displacement of the O-train rails situated under the new parking garage.
- » **Project Manager, Provincial Survey Control Network, Prince Edward Island (2003-2017):** The survey control network of Prince Edward Island contains approximately 4500 control monuments. Responsibilities included replacement and densification of the network, including adjustment and integration. As Chief Surveyor for the province duties also included finding a cost-effective replacement for the passive concrete monuments and the establishment of an active control network operational in 2015.
- » **Project Manager, Charlottetown Wastewater Treatment Plant Expansion, Charlottetown, Prince Edward Island (2003-2005):** Responsibilities included preparation of topographic and engineering base



plans for expansion of plant and two primary pumping stations; project layout and construction control; Post construction as-built surveys; and boundary and easement surveys.

- » **Project Manager, Charlottetown Water and Sewer Utility Infrastructure Upgrades and Replacement, Charlottetown, Prince Edward Island (1993-2019):** Engineering Surveys were provided on a yearly basis for the design and construction of infrastructure improvements for the capital city. This included surveys for the installation of new well fields, separation of combined sanitary/storm sewer lines, force mains, and high-pressure water mains.
- » **Project Manager, Stratford Sewer Utility Infrastructure Upgrades and Replacement, Stratford, Prince Edward Island (1998-2008):** Engineering Surveys were provided on a yearly basis for the design and construction of infrastructure improvements for the capital city. This included surveys for the installation of new well fields, separation of combined sanitary/storm sewer lines, force mains, and high-pressure water mains.
- » **Project Manager, Post Hurricane Juan Coastal Survey, Charlottetown, Prince Edward Island (2003-2004):** Following Hurricane Juan, a topographic survey was carried out on the most affected areas of shoreline of Charlottetown Harbour subjected to a storm surge. Engineering base plans were created followed with construction surveys and post construction as-built surveys to ensure the shoreline protection would meet future sea level rise.
- » **Project Manager, Cavendish Farms Plant #1 Cold Storage Facility, New Annan, PE (2005-2007):** The floor, foundation and footings of the storage freezers constructed in the early 1970's was undergoing lift because of frost expansion under the facility. Responsibilities included deformation surveys and reports to monitor the floor, foundations, and footings of the building during the thaw and prior to rehabilitation and reconstruction; Construction layout of footings and foundations, and a final as-built survey of the finished storage building.
- » **Project Manager, Queen Elizabeth Hospital Expansion, Charlottetown PE, (2006-2009):** The hospital, scheduled for phased upgrade and expansion included construction of a new emergency department, a second linear accelerator, and a new ambulatory care center. Responsibilities included pre-existing topographic surveys, construction layout, site monitoring quality control and final as-built surveys.
- » **Project Manager, Regis and Joan Duffy Research Centre, UPEI, (2005)** Responsible for quality control during construction, project control and layout
- » **Project Manager, Atlantic Veterinary College, UPEI. (2005)** Responsibilities included the provision of 3-D interference drawings to ensure piping and ventilation ducts would fit within space allotment.
- » **Project Manager, Cavendish Farms Plant #1, Processing Line #1, New Annan, PE (2006-2007):** Responsible for the 3-Dimensional survey of the existing processing lines, and precision layout for upgrades to the system including a final as-built survey.



- » **Project Manager, Cavendish Farms Plant #2, Processing Line Upgrade, New Annan, PE (2007-2008):** Responsible for the 3-Dimensional survey of the existing processing lines, and precision layout for upgrades to the system including a final as-built survey.
- » **Project Manager, Jean Canfield Government of Canada Building, Charlottetown, (2005):** Built to replace the aging Dominion Building in Charlottetown, the Jean Canfield Building was the first Gold Leed Certified building in Atlantic Canada. Responsibilities included, control surveys select construction layout, quality checks on layout and volume reports, and provision of final as-built records.

### **Land Development/ Engineering Design**

- » **Project Manager, Greenwood Estates Subdivision, Charlottetown, Prince Edward Island (2021-Present):** Responsibilities on the project included the design and development, planning, legal boundary surveys, storm water management, lot grading and building layout.
- » **Project Manager, Dory View at Waters Edge, Summerside, PE (2016-Present):** Responsibilities on the project included preliminary planning of development, public consultation, topographic plans, storm water management plans and reports, engineering design and construction management, approvals from the regulatory agencies, final plans of subdivision, site plans and building layout.
- » **Project Manager, Residential Buildings, Urban Centers, PE (2004-Present):** Working with varied developers on residential projects, project management responsibilities included, preparing site design for tendering and construction, storm water management plans, site servicing, project layout and control, final as-built record drawings.
- » **Project Manager, Ecole La Belle Cloche, Rollo Bay, PE (2016-2017):** Responsibilities on the project included site design, storm water management, site surveying, 3D scan of project site, construction inspection.
- » **Project Manager, Sandewood Park, Charlottetown, PE (2004-Present):** Responsibilities on the project included preliminary planning of development, public consultation, topographic plans, storm water management plans and reports, engineering design and construction management, approvals from the regulatory agencies, final plans of subdivision, site plans and building layout.
- » **Project Manager, Pate Subdivision, O'Leary, Prince Edward Island (2017-2018):** Responsibilities on the project included the design and development, planning, legal boundary surveys, storm water management, lot grading and building layout.
- » **Project Manager, Lennox Island First Nation, East Bideford (2018):** Contracted under authority of Parks Canada and the Surveyors General Branch, plan and field notes for a 30 lot of Lennox Island First Nation IR. 5 were carried out during the period. Responsibilities included, project management, research fieldwork and provisions of plan, field notes and reports for the various surveys undertaken.





- » **Project Manager, Brunello Estates, Halifax, Nova Scotia (2008-2009):** The development is situated on terrain consisting of extreme elevation change, environmentally sensitive lands and having services constraints presented challenges for development. Responsibilities included a redesign of the development to minimize environmental impacts, select the professionals, builders, and contractors to build the project. Develop environmental mitigation plans and reports, acquire approval from the various regulatory agencies, and oversee the progress of the project.
- » **Project Manager, River Meadows, Mermaid, Prince Edward Island (1993-2008):** The development consisting of onsite serviced lots situated on low lying lands on the banks of a tidal river presented challenges with respect to site servicing and environmental buffers. Responsibilities included preparation of preliminary plans of subdivision for regulatory approval; storm water management plans, delineation and protection of environmental wetlands, engineering drawings and reports for regulatory approval and construction; final plans of subdivision, building layout to ensure coastal and environmental setbacks were met.
- » **Project Manager, Town of Stratford/Kelmac, Stratford, Prince Edward Island (1993-2015):** The developer Kel-Mac had acquired the lands in the 1950's that make up what became the central core of the Town of Stratford and had developed the land piecemeal up to 1993. Representing the developer and working with the Town of Stratford, and their consultants a master plan was prepared for the development of the lands. Responsibilities including the aforementioned topographic surveys, preliminary plans of subdivision, public consultations, and re-zoning applications; meeting with the various regulatory agencies, preparation of site plans, storm water management, preliminary engineering design, building layout, and final approvals.
- » **Project Manager, Starlite Estates, Summerside, PE (2019-Present):** Responsibilities on the project included preliminary planning of development, public consultation, topographic plans, storm water management plans and reports, engineering design and construction management, approvals from the regulatory agencies, final plans of subdivision, site plans and building layout.
- » **Project Manager, Country View Estates, Charlottetown, Prince Edward Island (2007-2008):** Responsibilities on the project included preliminary planning of development, public consultation, topographic plans, storm water management plans and reports, engineering design and construction management, approvals from the regulatory agencies, final plans of subdivision, site plans and building layout.
- » **Project Manager, Gwenwood Subdivision, Charlottetown, Prince Edward Island (1998-2008):** Responsibilities on the project included the design and development, planning, legal boundary surveys, storm water management, lot grading and building layout.
- » **Project Manager, Madison Heights, Cornwall, Prince Edward Island (2004-2008):** Responsibilities on the project included preliminary planning of development, public consultation, topographic plans, storm water management plans and reports, engineering design and construction management, approvals from the regulatory agencies, final plans of subdivision, site plans and building layout.





- » **Project Manager, Browns Court, Charlottetown, Prince Edward Island (1997-2007):** Responsibilities on the project included preliminary planning of development, topographic plans, storm water management plans and reports, engineering design and construction management, approvals from the regulatory agencies, final plans of subdivision, site plans and building layout and condominium conversions.
- » **Project Manager, Fox Meadow, Stratford, PE (1998-2003):** The project consisted of a Golf Course, Golf School and Residential Development. Responsibilities included preliminary plans for property acquisition historical road closures and consolidation; topographic surveys for development design; project control and layout subdivision design and building layout.
- » **Project Manager, Canada Games Canoe/Rowing Facility, Charlottetown, PE (2007-2008):** The project consisted of preliminary design and cost analysis of a 2000m artificial Canoe and Rowing Facility as a legacy project of the Canada Games that could be transformed into a 4-season facility. Responsibilities included selection of the site, preliminary design, construction estimates, environmental mitigation reports, and reports on regulatory approvals and projected times for completion.

## PROFESSIONAL AFFILIATION

- » Association of Prince Edward Island Land Surveyors (APEILS)– Member and Past President
- » Association of Canada Land Surveyors (ACLS)– Member
- » Association of Professional Engineers of Prince Edward Island (APEPEI) – Member and Past Board Member
- » Professional Surveyors Canada - Member
- » Professional Engineers Ontario (PEO) – Member
- » Engineer Nova Scotia - Member
- » APEILS Acts and By-Laws Committee member
- » ACLS Acts and Bylaws Committee member
- » Canadian Council of Land Surveyors – Past Provincial Director (APEILS)
- » Agreement on Internal Trade – Provincial representative for PEI
- » Associate member of the Prince Edward Island Road Builders
- » Member of the Greater Charlottetown Chamber of Commerce



## **EDUCATION**

- » Bachelor of Science in Engineering (Geodesy and Geomatics), University of New Brunswick, Fredericton, NB (1989)

## **RESEARCH PAPERS AND PRESENTATIONS**

- » 250 Years of Road Law in Prince Edward Island, with Case Studies (2020) Research Paper
- » *PEI Active Control System* (2013) Presentation to the Association of Prince Edward Island Land Surveyors.
- » *Roads – Widths and Status* (2011). Presentation to Government of Prince Edward Island
- » *Surveyors Role in the Real Estate Transaction.* (2008), Presentation to the PEI Real Estate Association