

TOWER ENGINEERING GROUP LIMITED PARTNERSHIP

Winnipeg Office

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Calgary Office

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History of Firm

Tower Engineering Group Limited Partnership is a Manitoba Company incorporated in 1997. Tower is based in Winnipeg with a branch office in Calgary. The firm provides Structural, Precast, Mechanical, and Electrical engineering as well as Project Management Services. The firm is operated by 8 working principals and employs over 50 full-time staff, a high percentage being senior experienced professionals. This emphasis on experienced staff allows Tower to provide a high level of quality service to its clients. The firm's engineers are licensed and practicing in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Nova Scotia and Northwest Territories. In addition some of the firm's engineers have also participated in international projects.

Professional Services

- Structural, Mechanical, Electrical Engineering, Pre Cast, and Project Management services for a diverse range of construction projects
- Feasibility studies and reports
- Economic Studies & Cost Benefit Analysis
- Appraisal of existing structural, mechanical, and electrical installations
- Engineering Design
- Preparation of working drawings and specifications
- Site Observations and project supervision
- Quantity Surveying, Cost Estimating
- Start-up Operations/Commissioning, Operations & Maintenance Planning

Fields of Specialization

- Structural Engineering - Structural Design and Analysis, Foundations, Structural Systems, Steel, Reinforced Concrete, Precast Concrete, Masonry and Timber Design, Commercial, Retail, Industrial and Office Buildings
- Mechanical Engineering - HVAC, Fire Protection, Plumbing, Energy Audits, Process Industrial Equipment and Systems
- Electrical Engineering - Electrical service and power distribution, Lighting layouts, Building systems (security, CCTV, intercom), Industrial equipment and system controls, Grounding system analysis and design, Power profiling, Energy usage analysis, Fire alarm & life safety system design & testing, Local area network infrastructure design, Computer grade power supply system design and specifications

Memberships and Affiliations

- The firm's engineers are licensed and are practicing in Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, Yukon and Northwest/Nunavut Territories
- Staff memberships include; ASHRAE, IEEE, ASPE, CTTAM, Canadian Construction Association, CPIC
- Canadian Green Building Council
- Association of Canadian Engineering Companies (ACEC), Consulting Engineers of Manitoba (CEM)
- Canadian Society For Civil Engineering

Recreational Centre's:

- Bronx Park Community Centre - feasibility planning for new multi-faceted community centre.
- Warren Arena and Community Complex Mechanical and Electrical design, including geothermal installation for a new community rink. Project Management services provided to building committee.
- Killarney Recreation Multiplex - Mechanical and Electrical design for \$10 million community centre.
- Dauphin Recreation Center - Complete Project Management services for a new \$7.4 million mixed use recreation facility.
- Morris Recreation Complex - Mechanical, Electrical and Structural Engineers. Energy efficient heat and cold storage buffer for new energy efficient hockey, curling, and hall area.
- Headingley Community Club - Mechanical, Electrical and Structural Engineers for new Multi-purpose Community Centre.
- West St. Paul Rec. Centre - Mechanical, Electrical and Structural Engineers for new Recreation Complex.
- Thompson Rec. Centre - Mechanical, Electrical and Structural Engineers for new Recreation Complex, Project Value \$20 million.
- St. Jean Baptiste Community Centre -Project Management, Mechanical and Electrical Engineers for renovation of existing recreation centre.

Project Management

- Portage Recreation Complex – Working with the City of Portage Tower provided project management services for this facility.
- Virden Multipurpose Rec. Facility – Tower worked with the city of Virden and provided project management for its recreational centre upgrade.
- Parkland Recreation Complex - Phase II - Working for the City and R.M. of Dauphin providing Project Management services for a \$7.5 million multi-use recreation complex.
- American Biaxis Expansion - Tower Project Management and Tower Engineering provided mechanical, electrical and Project Management services for the addition of a second process line to this existing facility. Approximate construction value \$5 million.
- Maple Leaf Hog Processing Plant - Working for the builder and offering Project Management Support Services, including Project Director, Guenter Schaub, and Jack Abiusi, Mechanical-Electrical Coordinator.
- St. Anne Hospital Emergency Generator Replacement- Working directly for Manitoba Health, Tower provided design and construction services for the upgrade and replacement of an emergency generator.
- 177 Lombard - Working directly for the owner, Tower provided engineering and project management services for a new electrical service.
- City of Winnipeg - Cooling Plant Replacement, Tower worked directly for the owner to first study and subsequently design all the mechanical electrical and structural components for the replacement of the chiller and cooling tower on this project.
- Riverside Lions Personal Care Home -Power Plant up grades, Tower engineering worked directly for the owner to study energy savings measures and to incorporate in the replacement of the mechanical heating plant. Gas energy savings of 25% were realized in the first year of operations.

LEED Projects:

- Portage Recreation Complex (LEED Silver): The combination of ice-making for the rink and heat for the swimming tank allows the complex to utilise the waste energy from the ice plant to produce heat for the swimming tank.
- Virden Multipurpose Rec. Facility (LEED Silver): With the help of Tower the new facility in Virden will meet the LEED Silver requirements.
- U of W Plugin (LEED Silver Target): New 70,000 square foot building for the University of Winnipeg featuring various departments and a contemporary art gallery.
- Qualico Office Building (LEED Certified Target): New 90,000 square foot head office building for the Qualico group of companies. Geo-thermal heating and cooling.
- Aboriginal PCH (LEED Silver Target): New 80 bed personal care home in Winnipeg will feature geo-thermal energy for cooling and in-floor radiant heating.

Office Buildings:

- Qualico Office - New 3 storey head office facility, Structural, Mechanical and Electrical engineering.
- Manitoba Blue Cross - 100,000 sq. ft. office space tenant fit-up and building site redevelopment, Mechanical, Structural and Electrical.
- Kleysen Transport, Winnipeg, MB - 2 storey 18,000 sq. ft. office building, Structural, Mechanical and Electrical.
- Manitoba Nurses Union - 2 storey 15,000 sq. ft. office building. Structural design for two buildings.
- Kleysen Transport - Calgary, AB -12,000 sq. ft. office building, Structural, Mechanical and Electrical.
- TCMI Building - 30,000 sq. ft. existing commercial building interior fit-up, Mechanical, Electrical and Structural.
- WISL Office Building - 5,000 sq. ft. new office/warehouse. Mechanical and Electrical engineering for this design build project.
- Bockstael Office Building - New office building addition for Bockstael Construction, Mechanical and Electrical.
- Gateway Bookbinding - New office and plant for Gateway Bookbinding. Mechanical, Electrical and Structural engineering.
- Canada Post Building - 40,000 sq. ft. renovation for HRD Computer Centre and head office, Federal Government of Canada.