

DESIGN
CONSULTING
PROJECT MANAGEMENT
SPECIAL CONSTRUCTION
'GREEN CONSTRUCTION'

PROF&E Ltd. is Canadian owned consulting company specializing in project management, consulting and engineering support to construction. Our portfolio mostly consists of municipal infrastructure, industrial facilities, bridges and buildings. We work closely with the general contractors in our industry to support them during bidding process, construction and startup/commissioning phases.

As one of the few companies in this market with extensive experience both in design and construction, we are committed to supporting contractors in finding the best solutions for the job while satisfying owners, consultants, and construction managers as applicable.

We carry Certificate of Authorization by PEO and liability insurance required for consulting businesses.



engineering
supporting
construction

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'green'
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engineering
support



Engineering Supporting Construction

CALL US FOR A LUMP SUM QUOTATION

In PROF&E we specialize in water/wastewater facilities, industrial plants, bridges and buildings of various types and purposes. With our broad experience in municipal infrastructure and buildings, we can help you answer any technical questions, ensure continuity of construction and help you reduce construction costs. Our role could be active in terms of construction management, or limited more in terms of engineering support to construction.

On various DBB and DB teams we were able to save

considerable construction cost by reviewing tender documents and providing value engineering assessment. The analysis sometimes has gone into details of foundation methods, building layout, structural systems, selection of materials, construction sequencing, etc.

On complex water/wastewater projects our commissioning managers would plan commissioning stage in advance to ensure startup with no surprises. We would also coordinate commissioning activities with SCADA design and implementation.



PIPE SUPPORT DESIGN

Our structural and process engineers are experts in designing pipes for various municipal and industrial applications. We design pipe supports in seismic and non-seismic zones as per requirements of building codes. For pressure pipes, we design thrust blocks.



EQUIPMENT/MAINTENANCE PLATFORM DESIGN

For offer structural design for custom equipment/maintenance platforms and catwalks. Our engineers would take site measurements, coordinate work with equipment supplier, owner's operation staff and consultants before producing shop drawings. We design platforms in aluminum, FRP, steel, or other materials as required.



CAD SHOP DRAWINGS

As a deliverable for all our design work, we would provide top quality shop drawings that could be easily converted into construction.

PROF&E SOLUTIONS

- PROJECT MANAGEMENT
- CONSTRUCTION MANAGEMENT
- DESIGN OF TEMPORARY STRUCTURES
- DESIGN SPECIALITIES (FRP, ALUM...)
- PERMITTING FOR CONSTRUCTION
- STARTUP AND COMMISSIONING
- CONSTRUCTION SAFETY
- SHOP DRAWINGS
- GREEN CONSTRUCTION
- VALUE ENGINEERING
- SCHEDULING
- LITIGATION SUPPORT
- CLAIMS ANALYSIS

24-7 construction support

DESIGN OF TEMPORARY STRUCTURES AND DESIGN SPECIALTIES

For special projects, we offer engineering design for the following:

- Formwork design
- Shoring systems using soil-structure interaction
- Deep foundations
- Underpinning and top-down construction,
- Aluminum, FRP or timber equipment platforms,
- Waterproofing for buildings and tanks
- Gasproofing for digesters
- Specialty covers/domes for tanks and reservoirs

PROF&E SERVICES

We offer the following consulting disciplines:

- Structural engineering
- Civil engineering
- Mechanical engineering
- Architectural
- Low voltage electrical
- Automation/SCADA
- Project management
- Construction management
- Other engineering specialties.

SHOP DRAWINGS APPROVED AND SEALED BY A LICENCED P.ENG.

DESIGN BUILD and P3 PROJECTS

With our expertise in design and construction of municipal infrastructure, bridges and buildings, PROF&E plays instrumental role in joint ventures with general contractors and/or equipment suppliers. We work with our partners to



develop a winning bid and ensure success through the execution. We have successfully implemented several water and wastewater plant installations in Ontario and overseas. Our scope is typically in:

- Proposal preparation
- Design
- Engineering support during construction

'GREEN CONSTRUCTION'

Most of public tenders in Canada both DBB and DB have different levels of environmental requirements. Our 'green' construction specialist will assist win environmental points during bid stage and implement during construction. Our typical engagements are as listed below:

- Support during bid preparation
- Selection of 'green' materials and life-cycle cost analysis
- LEED certification

