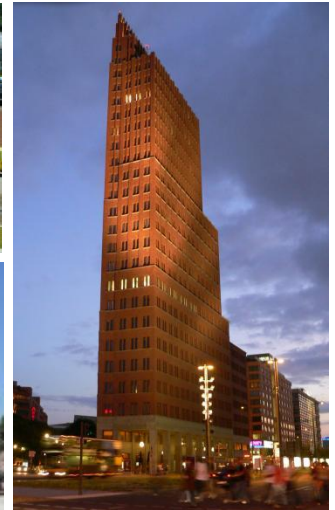




project management and consulting engineering

SPECIALISTS IN WASTEWATER TREATMENT AND COLLECTION, BUILDING AND INDUSTRIAL DESIGN, CONDITION ASSESSMENT AND CONSTRUCTION



DESIGN SERVICES



ABOUT PROF&E DESIGN SERVICES

After more than 20 years of operation in planning, design and construction we have developed one of the most comprehensive sets of technical standards and design tools in the industry. With the top quality of our internal standards, we can provide our clients with leading edge technical solutions in the market segments we specialize in.

Our project teams have proven history of success on the most challenging projects. We take pride in the work we do and we take lessons learnt from every project. All our designs have sustainable approach implemented to various extents; we pay attention to constructability, price and quality.

By utilizing modern design tools and techniques, PROF&E's engineers size building components and equipment up to their limits. We are masters of design codes and technology as such we can point our clients in a right direction.

Our services include:

- design of pumping stations
- design of reservoirs and elevated towers
- design of wastewater storage
- design of high-rise buildings, administration buildings, etc.
- design of industrial plants
- design of wastewater treatment plants
- design of water treatment plants
- distribution and collection piping design, including large diameter forcemains
- design of special structures such as stacks, equipment platforms, caisson walls, deep foundations
- underpinning design
- design utilizing special construction techniques such as top-down construction, underpinning, etc.
- civil design, including SWM and drainage
- value engineering

OUR SERVICES

PROJECT MANAGEMENT

Project success is assured by paying special attention to planning, systematically managing and monitoring the work as the project progresses – our project management team have the skills and systems in the work planning, coordination, monitoring and control of projects.

STRUCTURAL DESIGN

In PROF&E we use finite element modeling and other state-of-the-art techniques to maximize potential of limit states design. In addition, we utilize structural capacity of all building materials to develop the most economical design. For instance, we design concrete block walls as load-bearing elements that eliminates need for structural steel columns and bracing.

We also specialize in design of concrete (including water-retaining structural concrete), wood, steel, even soil structures. For special applications we take advantage of FRP, aluminum and stainless steel. We are one of the few companies that have expertise in post-tensioned concrete design.

ARCHITECTURAL/LEED DESIGN

Our team of architects is distinguished with their European style of architecture. They collaborate with all other groups in developing concepts in accordance with building codes and requirements for green certifications.

CIVIL DESIGN

We specialize in small and large diameter piping design, site grading, site drainage, and various earth retaining structures.

PROCESS/MECHANICAL DESIGN

We consider heardworks buildings, pumping stations, pre-packaged treatment systems and various water, chemical and sludge holding tanks as our niche market. Our process and mechanical engineers play critical role in equipment selection, sizing and implementation of the project.

SCADA AND ELECTRICAL

Automation and electrical design are integral part of all our projects. We ensure our products are fully operational during commissioning and start-up stages.



SOME OF OUR CLIENTS

MUNICIPALITIES

- Region of York
- Region of Peel
- Region of Durham
- Region of Halton
- City of Timmins

GENERAL CONTRACTORS

- ROMAG Contracting Ltd.
- ASCO Construction Ltd.
- Bennett General Contracting

OTHER CONSULTANTS

- AECOM
- CIMA Canada
- CRA

INDUSTRIAL/MANUFACTURERS

- IntegralSeal Manufacturing
- General Motors
- KoSa, member of Invista family

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