

Architectural

- Surface facilities
 - Offices
 - Warehouses
 - Shops/garages
 - Compressor houses
 - Security buildings
 - Core logging buildings
 - Refuge stations
- Roof replacements
- Office/building renovations
- Facade replacements
- Ontario building code reviews

Civil

- Site plans
- Road network design, including haul roads
- Site traffic planning
- Condition assessments
- Pumping stations
- Site process water and storage tanks
- Stormwater management
- Grading, backfill, culverts and ditching
- Buried infrastructure and underground services
- Tailings infrastructure

Electrical/Instrumentation

- Process controls
- Power system analysis
 - Short circuit studies
 - Protective device evaluations and coordination studies
 - Arc flash studies
- Power distribution
- Switchrooms
- Grounding
- Fire alarm systems
- Energy management
- Communications systems
- Substations
- Overhead utility lines
- Backup power (UPS, generators)
- Lighting

- Cabinet design
- Functional descriptions
- PLC/DCS programming
- Underground systems
 - Leaky feeder
 - Central blasting
 - Telephone
 - Video
 - Fibre
 - Shaft cables

Mechanical

- Slurry pumping
- Process piping
- Heating and power plants
- Cogeneration and renewable energy
- Tanks and vessels
- Cooling towers, boilers, etc.
- Belt and screw conveyors
- Chutes and bins
- Equipment specifications
- Building HVAC systems
- Dust collection
- Plumbing and fire protection

Mining

- Maintenance engineering
- Hoisting plants, including headframes
- Shaft maintenance modifications
- Underground and surface material handling
- Systems (crushing, conveying, and screening)
- Loading pockets
- Mine wastewater treatment
- Ore pass modifications
- Ventilation
- Dewatering
- Mine longitudinals

Project Management

- Project conceptualization
- Business case development
- Multidisciplinary detailed design

- FEL studies and engineering reports
- Post-issued for construction (PIFC) services
 - Tender assistance
 - Shop drawing review
 - Construction support
 - Commissioning plans, checklists, and field support
 - General conformance reviews
 - As-constructed drawings
- Estimating
- Scope, time, and cost management
- Quality assurance
- Nontraditional project delivery

Structural

- Condition assessments
- Equipment access platforms
- Bridge design
- Cranes and lifting devices
- Conveyor galleries
- Building structural modifications
- Equipment support structures
- Concrete vessels, retaining walls, etc.
- Foundation design
- Demolition plans
- Concrete dam

Water/Wastewater Treatment

- Background studies and investigations
- Condition assessments
- Optimization studies
- Environmental assessments and master plans
- Hydraulic stress testing and modeling (water and sewer)
- Capital and operating costs
- Conceptual and detailed design for upgrades and greenfield facilities
- Potable and process water supply and treatment systems

Mining & Mineral Processing Infrastructure

Service Offerings

Architecture
Civil Engineering
Electrical Engineering
Energy Systems Engineering
Environmental Engineering
Mechanical Engineering
Planning
Project Management
Structural Engineering

Talk to us today

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