

E.S. Fox Limited

Industrial Projects - Structural Steel



Rainy River Gold Mine Project

COMPANY CONTACT

E.S. Fox Limited — Structural Steel and Bridge Division

www.esfox.com

905-354-3700 x1328

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E.S. Fox Limited Affiliations



Professional Engineers
Ontario



CSA W47.1
CSA W47.2



O|E|A ONTARIO
ERECTORS
ASSOCIATION INC

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E.S. Fox Limited

CORPORATE OVERVIEW

Since 1934, E.S. Fox Limited (ESFL) has set the standard for safety and quality in the fabrication and construction industry. ESFL is a privately owned, Canadian, multi-trade company, providing a single source for Industrial, Institutional, Commercial, and Power Generation projects. With over 3.0 million direct-hire man-hours last year, we self-perform Structural Steel Fabrication and Erection, Mechanical, Electrical, Sheet Metal, HVAC, Refrigeration, Millwright / Rigging, and Boiler Making.

The strength of our company stems from the vast experience of its people, the integration of a variety of skilled trades, and dedication to total control of construction through computerized planning and monitoring techniques.

ESFL has established a reputation for high quality workmanship, operational flexibility, efficiency, and timely project completion.

CONSTRUCTION CAPABILITIES

As a fully integrated, multi-trade construction firm, E.S. Fox Limited provides clients with a single source solution for their detail engineering, fabrication, construction, and maintenance needs. We are a solutions based provider that delivers a superior level of service from "cradle-to-grave," as we offer multi-trade, service oriented solutions for all your ICI and Power Generation projects.

FABRICATION CAPABILITIES

E.S. Fox Limited is proud to operate three state-of-the-art fabrication facilities across Ontario. At our main fabrication facility in Port Robinson, we offer over 83,000 square feet of production space. We work to the highest standards to produce Pipe Spools, Modules, Cryogenic Cold Boxes, and Pressure Vessels. With over 800 weld procedures and 40 quality certifications including nuclear, E.S. Fox Limited continues to be a leader and a symbol of Canadian strength and tradition in the supply of Quality Fabrication Services for the Industrial, Commercial, Institutional, and Power Generation markets for over eight decades.



Founder - Edward (Ted) Fox

SERVICES

- ENGINEERING
- FABRICATION
- STRUCTURAL DESIGN
- STRUCTURAL STEEL ERECTION
- BRIDGE ERECTION
- MILLWRIGHTING | RIGGING
- BOILERMAKING
- MECHANICAL
- ELECTRICAL
- SHEET METAL
- REFRIGERATION
- HVAC

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Environmental Health and Safety

SAFETY CULTURE

At ESFL, employee safety, protection of the environment, and work quality are the main focus of our safety culture. Both management and employees work together in an effort to further advance knowledge of safety and incident prevention. Together we work to ensure a safe work environment for all. Our employees believe in the fundamental principle that safety is everyone's responsibility.

One of our core values is to "Prevent the Event." Incident prevention is the integral part of every job, with the safety and well-being of each individual the number one priority.

SAFETY PROGRAM KEY ELEMENTS

- Corporate Safety Manual
- Site Specific Safety Plans
- Orientation and Training
- Incident Investigation
- Lessons Learned Bulletins
- Job Safety Analysis
- Workplace Inspections
- Senior Management Review
- Safety First Attitude
- Trending and Analysis
- Setting Objectives and Targets
- Safety Workshops
- Mentoring Program
- J.H.S.C.
- Strong Communication
- Accountable Supervision
- Safety Meetings



International
Organization for
Standardization

ISO 45001:2018

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Quality Assurance



ISO	CSA	ASME
<ul style="list-style-type: none"> • ISO 9001:2015 • ISO 14001 • ISO 18001 	<ul style="list-style-type: none"> • CSA N285.0 Nuclear Class 1,2,3, & 4 Parts, Components & Support (Shop & Field) • CSA N285.0 Nuclear Material Supply Ferrous and Non-Ferrous (3 Locations) • CSA N286-12 Nuclear • CSA N299.1 – 2016 • CSA B51 Boiler, Pressure Vessels & Pressure Piping & Repairs (Shop & Field) • CSA B51 Category A, B, C, E & H Type Welded Non-Welded Fittings (Shop & Field) • CSA B51 Hot Tap & Line Stopping (Shop & Field) • CSA Z7396. 1-17 Medical Gas Pipeline Systems Part 1 	<ul style="list-style-type: none"> • National Board Registration for ASME Section III, R, VIII (Shop & Field) • ASME Section III, Division 1: N, NPT, NA, NS • ASME Section VIII, Division 1 & 2 Pressure Vessels (Shop & Field) • ASME U, U2, S, & PP Stamps (Shop & Field) • ASME U, UM Stamps: Edmonton Division (Shop & Field) • ASME B31.1 Power Piping (Shop & Field) • ASME B31.3 Process Piping (Shop & Field) • ASME B31.5 Refrigeration Piping (Shop & Field) • CSA B52 Mechanical Refrigeration Code
CWB		
Structural Steel CWB W47.1 Div. 1 Structural Aluminum CWB W47.2 Div. 1		



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Locations & Facilities

Head Office: Niagara Falls, ON —240,000 square feet

Branch Location	Capabilities		Square Footage
Darlington, ON	Construction		
Hamilton, ON	Construction	Fabrication	3,000 sq. ft.
Kingston, ON	Construction	Fabrication	17,000 sq. ft.
Port Robinson, ON		Fabrication	83,000 sq. ft.
Sudbury, ON	Construction		
Thunder Bay, ON	Construction	Fabrication	5,000 sq. ft.
Tiverton (Kincardine), ON	Construction		
Vaughan (Toronto), ON	Construction		
Oshawa, ON	Construction		
Total Fabrication			108,000 sq. ft.



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Capabilities

CONSTRUCTION CAPABILITIES

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We provide the following construction services:

- ◆ Piping
- ◆ Electrical
- ◆ Structural Steel
- ◆ Ironworkers
- ◆ Millwrights
- ◆ Boiler Making
- ◆ Sheet Metal
- ◆ HVAC
- ◆ Instrumentation & Controls
- ◆ Operating Engineering
- ◆ Insulation
- ◆ Carpenters
- ◆ Labourers
- ◆ Refrigeration



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FABRICATION CAPABILITIES

At our main fabrication facility in Port Robinson, Ontario, we offer over 83,000 square feet of production space. We work to the highest standards required to produce Cryogenic Cold Boxes, Pipe Spools, Modules, and Pressure Vessels. With more than 800 weld procedures, we fabricate:

Modules and Vessels

- ◆ Process Modules and Equipment Skids
- ◆ Cryogenic Air Distillation Columns for:
Oxygen, Nitrogen, and Argon
- ◆ Air Liquefaction / Separation
- ◆ Hydrogen Purification
- ◆ Catalyst Reclamation
- ◆ Oil / Water Purification

Pipe Fabrication

- ◆ Stand alone contracts & support of field projects and other fabrication projects
- ◆ Area of expertise is high alloy materials:
Stainless Steel, Aluminum, Titanium, Chrome-Moly
- ◆ Carbon Steel up to 84" Diameter
- ◆ Victaulic—Roll Grooved Piping up to 48" Dia.
- ◆ Jacketed Pipe



Pressure Vessel



Cryogenic Cold Box

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PORT ROBINSON SHIPPING

We are unique in that we have access to the Welland Canal at our Port Robinson facility. This includes our own loading docks, where we can ship oversized modules from up to 800 tons to any water accessible location in the world.

Transportation Access & Dock Facilities

- ◆ 1/2 mile from Highway 406 extension providing direct access to Queen Elizabeth Highway
- ◆ 1/4 mile from Canadian National Railroad line
- ◆ Heavy Barge Roll On/Roll Off Loading Dock extending into the Welland Ship Canal turning basin providing 10' draught and 400 ton capacity
- ◆ Heavy Lift Dock of 800 ton capacity, dock face 475 ft. draught 25 ft. The dock can accommodate maximum Seaway length vessels
- ◆ The site incorporates 5 acres of level, well compacted, crushed stone assembly area



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STRUCTURAL STEEL — UNIQUE PROJECTS

E.S. Fox Limited is heavily involved in the fabrication and erection of industrial and commercial structural systems and bridge installations. In addition to typical installations, we take on a wide range of unique structural projects that require a good measure of agility and ingenuity in order to meet owner's expectations. We are well-equipped and welcome opportunities to work on projects that involve:

- Fast track schedules on logistically sensitive sites and locations
- Work in occupied structures
- Existing building reinforcement
- Equipment installations
- Pre-engineered buildings
- Hoisting utilizing helicopter lifts
- Shutdowns
- Canal & seaway repairs
- Erecting internal headframes in concrete structures
- Alternate hoisting methods
- Conveyors
- Underground work
- Modules
- Jack & slide equipment
- Rough setting owner supplied items
- Overhead crane installations



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E.S. Fox Limited — Industrial Project Profile



Rainy River Gold Mine Project

Scope

Supply & erection of structural steel for a new industrial complex of approximately 6,000 tonnes. Contract included use of an overhead crane, module and equipment setting, and all cladding, roofing, metal deck, and other architectural accessories.

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CFVS, EPG3, RWSB, and D20 Projects

Scope

Erection of structural steel for the CFVS (Contaminated Filter Venting System Building), EPG3 (Emergency Power Generator, building 3), RWSB (Retube Waste Storage Building) and D₂O (Deuterium Oxide Management Building) for Ontario Power Generation. Some buildings are N286 & Z299.1 rated. A high degree of coordination, safety, and quality control was required.

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St. Lawrence Seaway Tie Up Wall Lock 1, 2, and 3

Scope

Supply and installation of over 5,000 tonnes of structural steel for the new tie up walls at Lock 1, Lock 2, and two locations at Lock 3. This contract also included a tie back system for the sheet piling.

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St. Columban Wind Farm

Scope

Erection of 15 windmills. Each windmill was 361' tall, and consisted of 5 tower sections, nacelle, 3 rotor blades, and the platform/power unit. Adverse weather conditions were overcome to allow for safe and successful installation.

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Cytec Process Expansion Project Thermal Oxidizer & Flare System

Scope

This contract was for the supply and installation of utility racks and access steel along with additional steelwork inside an existing building for the expansion project. E.S. Fox Limited's mechanical and electrical divisions were also on the project team for their portions of the work.

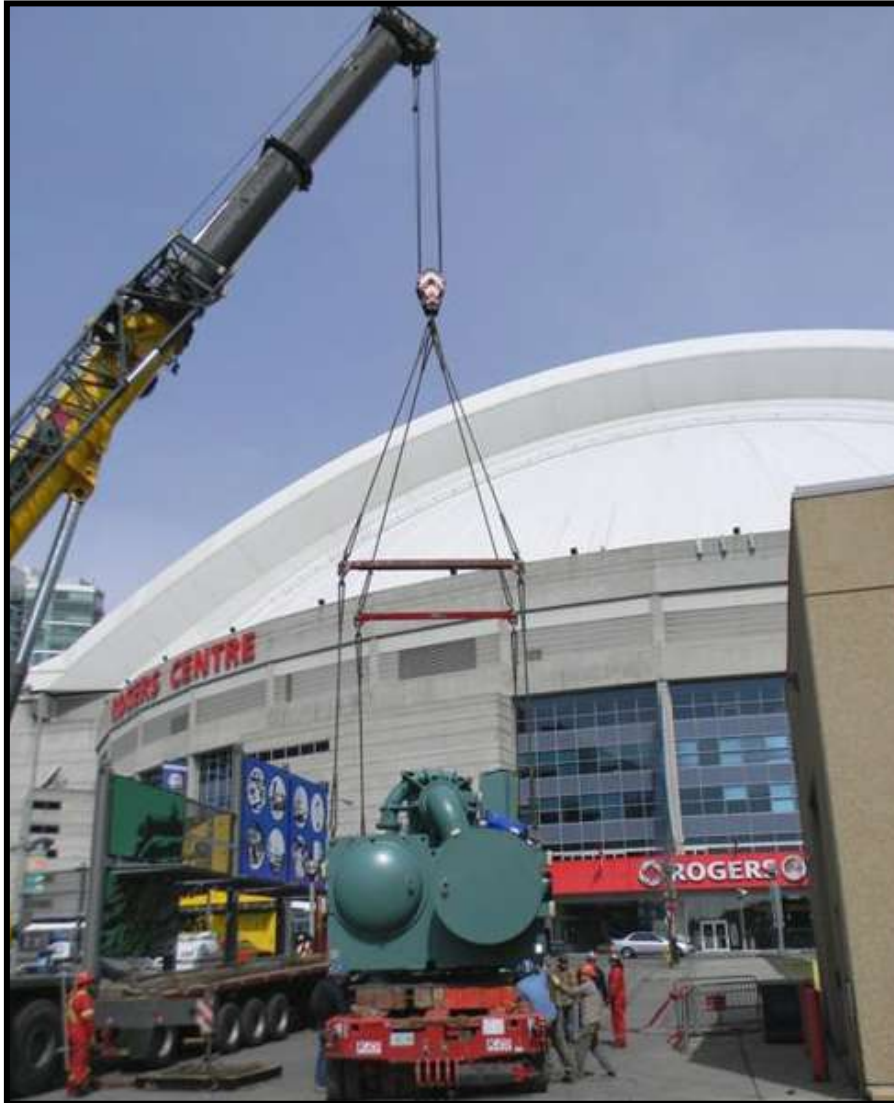
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Enwave Power Chiller Installation & Support Steel

Scope

Installation of structural steel for an equipment platform and the setting of three 80 ton chillers. SPMT trailer was used to install the chillers with a jack and slide system. E.S. Fox Limited's mechanical and electrical divisions were also on the project team for their portions of the work.

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SaskPower Queen Elizabeth Power Station

Scope

QEPS is a new natural gas cogeneration plant in Saskatoon, SK. 2,600 tons of conventional steel were erected for the STG building and utility racks. E.S. Fox Limited performed heavy equipment setting and also erected 1,000 tons of steelwork for 5 pre-engineered buildings.

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SaskPower Boundary Dam Flue Gas Building

Scope

Supply and erection of steel with equipment and gas cooler installation.

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SaskPower Boundary Dam Heat Rejection Building

Scope

Supply and erection of internal steelwork to support various piping spools and equipment. The setting and commissioning of the equipment was also part of the contract.

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SaskPower Boundary Dam Carbon Capture Project

Scope

Supply and erection of 2,400 tons of structural steel framing for a new industrial building. The contract also included cladding and roofing, as well as the metal deck and all equipment setting (over 200 pieces, including a 350 ton stripper vessel) and setting of 20 modules.

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Mosaic Potash K3 Mine Site Production Headframe

Scope

Supply and erection of structural steelwork for a 200' tall tower including overhead cranes, chutes, and setting of equipment and sheaves.

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Dofasco Pulverized Coal Injection Facility

Scope

Installation of a new 200' tall building consisting of 1,200 tons of structural steel. Construction was coordinated with equipment installation as the building was being erected. The contract included all cladding and civil work.

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