

Airport Facilities



Morrison Hershfield's airport capabilities address airside, terminal and groundside facilities, providing our clients with solutions for the aesthetic, economic, safety and environmental issues facing today's aviation sector. We offer multidisciplinary engineering design services for building structures, building HVAC, power supply, lighting and plumbing services, life safety and security access and control systems. We also provide airside consultancy services for runways, taxiways and aprons, including civil works, drainage, wetlands, ground lighting, and aircraft refueling.

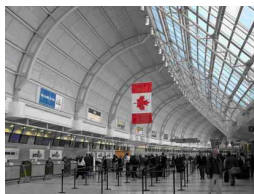
Our full range of new construction and rehabilitation services offered to the aviation sector before, during and after construction includes:

- **Runways, taxiways, ramps, aprons, tunnels, bridges, roadways**
- **Service, departure, arrival and parking structures**
- **Traffic planning**
- **Electrical systems and illumination**
- **Electrical distribution and master plans**
- **Power generation**
- **Mechanical systems and utilities**
- **Water, sewer and storm structures**
- **Glycol capture and attenuation systems**
- **Building envelope, roofing, windows and curtainwall**
- **Project and construction management**
- **Residential and business park development**
- **Fire protection and code consulting**
- **Facilities management**
- **Environmental assessment**
- **Indoor environments**
- **Telecommunications facilities**
- **Value engineering**
- **Public and stakeholder consultation**

Our comprehensive airport services and proven experience with a wide range of airport facilities gives clients access to integrated engineering solutions for the economic, safety, security and environmental issues facing today's aviation sector. Satisfied clients are a result of shared best practices and a commitment to high standards.



Airport Utilities
Master Plan



Fire Alarm and
Monitoring System
Upgrade



New Terminal
Construction



Access Road and
Runway Lighting
Upgrade



Airport Land
Development



Airport Terminal Expansion Project

The Calgary Airport Authority (CAA) is investigating the possible expansion of Concourse B/C in 2025. This detailed planning study involves the conversion of concourse B/C from transborder/international flights to domestic flight operations. We are assisting with Phase 2 of the conceptual plan, the Project Definition Report, which details the development and phasing plans for design and implementation. Our objective is to prepare a Facilities Condition Report for the existing terminal building, including results of investigation and assessment of all existing building systems and infrastructure components. We are also providing the conceptual design for all the concrete aprons that will require modifications due to this expansion.



Airport Tunnel Under an Operating Runway

This \$60 million project involved the design and construction administration of a 600m long, four-lane tunnel under operating runway 15L-33R at Toronto's Lester B. Pearson International Airport. Designed to withstand future aircraft weighing in excess of 1.5 million pounds, the tunnel connects new cargo and emergency facilities to the terminals and perimeter roads. The tunnel is a twin box structure measuring approximately 30m x 8m in diameter.

