

ERB Truck Loading and Refrigerated Storage Facility

Contempora Steel

Winnipeg, Manitoba



Project Description

KGS completed the structural, mechanical, and electrical design for this new 23,000 SF building in Winnipeg. The building included a truck service bay for semi-trailers, refrigerated storage, freezer storage, and an office. Capital Cost \$3.5 Million

Structural Design:

Complete structural design incorporating 8 truck loading docks, 2 truck service bays, and a maintenance shop.

Mechanical Design:

Plumbing design included well water supply, water treatment equipment, and truck bay wash system and truck bay floor trench flushing system. HVAC design included high efficiency heating system, heat recovery ventilator, server room air conditioning, and truck bay makeup air system c/w HVAC controls. The truck bay ventilation controls incorporated vehicle emission sensors and humidity controls for truck washing environmental control; air moving system for the refrigerated storage areas;

Electrical Design:

Electric power distribution design included embedded conduit drawing to coordinate refrigeration cooling loads, server room uninterruptible power supply and distributed power supply facilitating future capacity requirements. Lighting design included architectural lighting considerations in office space and industrial style lighting in warehouse area using occupancy sensors in less occupied areas. Emergency lighting uses uninterruptible power supply and regular fixtures. Communication system design included structured cable and intercom. Wash bay trailer 'Back Up' indication system to properly locate trailer prior to washing. System includes indicating panel and sensors to display trailer location to driver.