

CFB BORDEN DATA CENTRE

Borden, Ontario, Canada

Price: \$330-million (CAD)

Project Scope: Engineering Professional Services for Physical Security

Size: 50,000 square feet

Project Start: 2016

Project Completion: 2018

Client Reference:

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Project: The new Data Centre is a \$330-million Public-Private Partnership (P3) contract for Shared Services Canada's Enterprise Data Centre at CFB Borden to be constructed in four phases (four Spaces) with a total Critical Power Load of 5.0 MW. A future fifth phase may incrementally increase the Critical Power Density to any or all the initial four Spaces from 1.25 MW up to a maximum of 1.56 MW. A future sixth phase may add a fifth space and add 1.56 MW of Critical Power Load. The end result would be five Spaces with a total 7.8 MW of Critical Power. The structural system is a single-storey braced-frame steel structure with a metal deck on open-web steel joists roof.

Assignment: Provided blast hardening recommendations to the design manager and structural engineering consultant and co-ordinated with the other consultant teams on the project (architectural, mechanical, electrical, etc.). Possible threats may occur outside the building, due to a vehicle-borne improvised explosive device (VBIED), or inside the loading dock, vestibule and lobby due to a person-borne improvised explosive device (PBIED).

Responsibilities: Developed and co-ordinated the protective design process for the structure through non-linear, dynamic analyses for far- and near-field blast loading. Participated in team co-ordination meetings and presented blast hardening solutions and recommendations to the consulting team, owners and stakeholders. Provided technical support during contract administration.

