



SECTOR: INSTITUTIONAL

SARNIA JAIL LIGHTING UPGRADE

700 Christina Street, Sarnia, ON.

DESCRIPTION:

Callidus Engineering provided the design for to upgrade the lighting and associated controls at the Sarnia Jail. This building has two distinct program areas, High security areas, where inmates are present, and administrative areas, where Corrections Officials are present. The upgrades were intended for energy conservation but needed to maintain the security requirements for the two program types.

CONSULTING SERVICES:

Callidus Engineering provided a complete lighting design for the replacement or retrofit of various incandescent, fluorescent and Metal Halide fixtures, and converting them to LED alternatives. This project also included the installation of occupancy sensing controls in the areas not exposed to inmates or jeopardizing the safety of any staff. Some of the design challenges were in specifying maximum security fixtures from limited options. The existing lighting was cast in place fixtures in the ceiling slabs. Callidus specified new surface mounted fixtures that performed better than the existing fixtures enabling the facility to install fewer fixtures but increase the performance in the cell areas at the same time.

STATUS:

Completed June 2018

CONSTRUCTION VALUE:

\$175,000

DESIGN TEAM

INCLUDED:

Russ Strathdee, P.Eng.

Nathan Albion