



HOLY BLOSSOM RENEWAL

TORONTO, ON

QUICK FACTS

- + Place of Worship
- + 99,600 square feet
- + \$16-million Budget
- + National Trust of Canada, *Ecclesiastical Insurance Cornerstone Award (2021)*
- + Smith + Andersen Mechanical
- + Sustainability Services (Footprint)



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HOLY BLOSSOM RENEWAL

ABOUT THIS PROJECT

- + Renewal project involving additions / alterations to the existing building.
- + Introduced an atrium space to improve connectivity between all areas of the building (built in different phases over the years).
- + Introduced a new elevator, provided the atrium and retrofit to areas east of the atrium (Phase 1), and retrofit the areas west of the new atrium (Phase 2).
- + Additions and alterations required the replacement of the aged mechanical infrastructure (re-used some of the existing distribution ductwork in the Sanctuary to avoid unnecessary restoration).
- + Created a new central heating and cooling plant in the addition to allow for the phased demolition of the existing plant.
- + Features high efficiency condensing boilers, and a chilled water plant that includes a free cooling mode to generate cooling water for internal spaces (when outdoor air temperatures permit).
- + A combination of constant volume air handling (in the atrium) and a four pipe fan coil system serves most areas of the building.
- + All outdoor air is pre-conditioned using heat recovery.
- + Operable window ventilation mode for the atrium, using the smoke control fans and operable windows to naturally condition the atrium.

LOCATION
Toronto, ON

**SMITH + ANDERSEN
SERVICES PROVIDED**
Mechanical

KEY TEAM MEMBERS
Diamond Schmitt Architects

SIZE
99,600 sq. ft. (9,253 sq. m.)

BUDGET
\$16 Million

COMPLETION YEAR
2017

SUSTAINABILITY
LEED Silver (Target)

AWARDS
National Trust of Canada,
Ecclesiastical Insurance
Cornerstone Award (2021)

HOT BUTTONS

PLACE OF WORSHIP	ADDITIONS	ENERGY MODELING	UPGRADES
LEED TARGETED	RENOVATION	ATRIUM	MECHANICAL DESIGN



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