

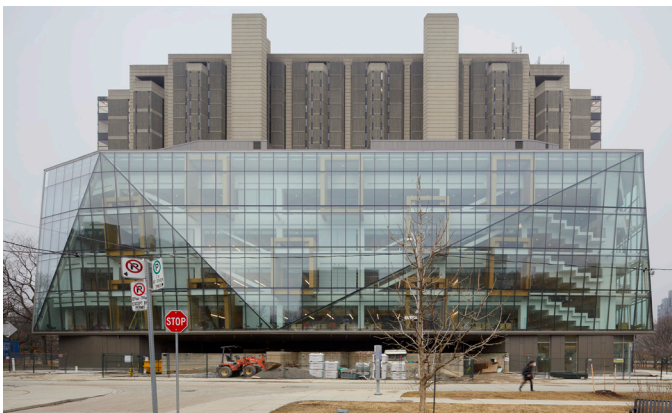
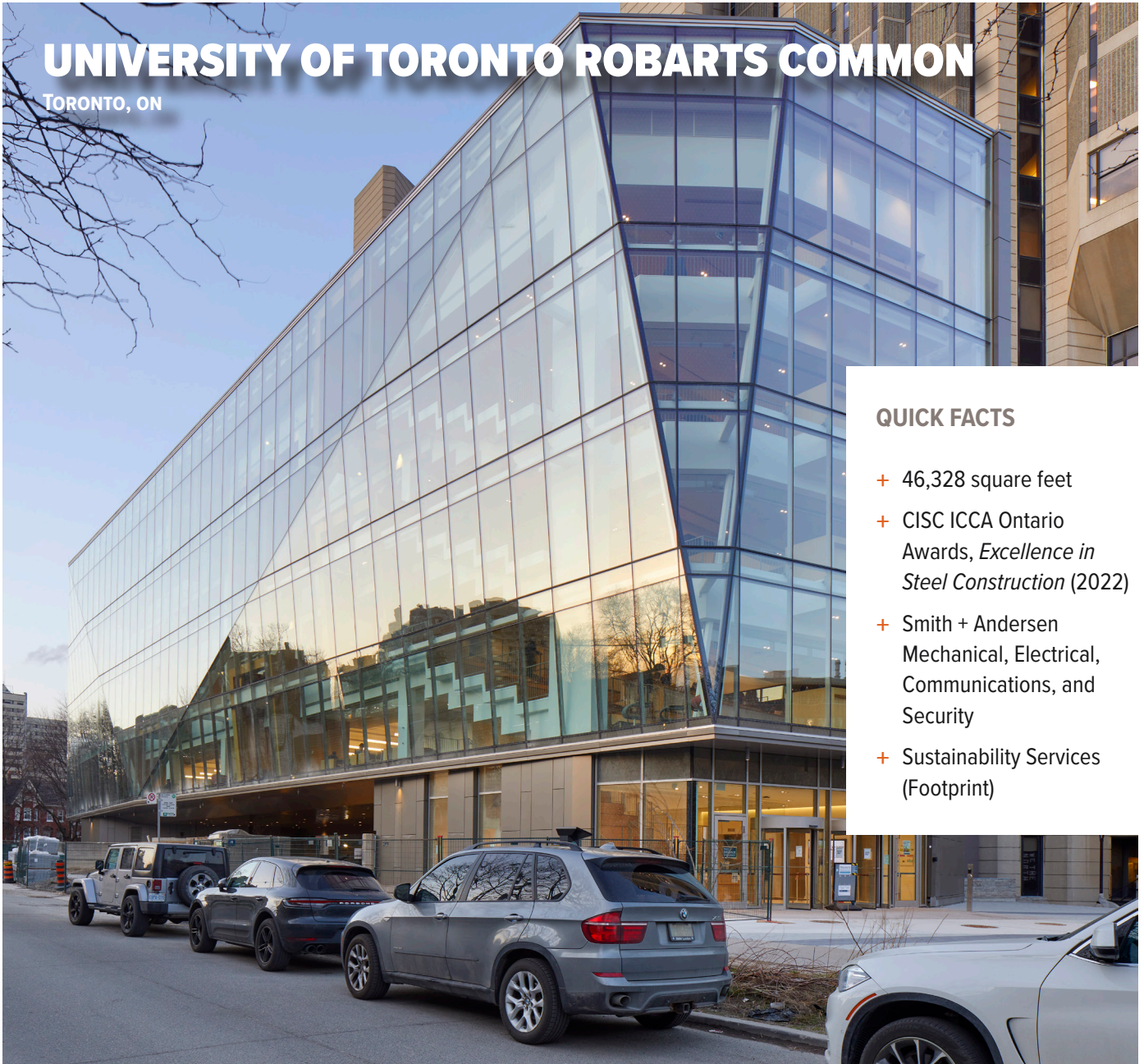


UNIVERSITY OF TORONTO ROBARTS COMMON

TORONTO, ON

QUICK FACTS

- + 46,328 square feet
- + CISC ICCA Ontario Awards, *Excellence in Steel Construction* (2022)
- + Smith + Andersen Mechanical, Electrical, Communications, and Security
- + Sustainability Services (Footprint)





UNIVERSITY OF TORONTO

ROBARTS COMMON

ABOUT THIS PROJECT

- + Five-storey expansion to the University's Robarts Library, adding 1,200 work and study spaces, as well as a multi-level bridge connection.
- + Involved the expansion of the University's existing medium voltage substation through a phased approach.
- + Low-impact, sustainable design solutions, such as a rooftop rainwater collection system, minimize the environmental impact and support 55 Sakura cherry trees.
- + Lighting design included 100 per cent LED lighting, a centralized wireless and smart lighting control system complete with daylighting and photocell controls, and a light tunnel feature for the bridge connection.
- + Lighting design resulted in very low lighting power density relative to the latest energy efficiency code requirements (average of less than 5 W/m² per floor).
- + Leveraged wireless lighting controls in exposed areas of the building without the infrastructure to run wiring (due to pre-cast slabs and substantial use of glazing).
- + Mechanical design included heat recovery for the main air handling systems for improved energy efficiency.
- + Leveraged 3D modelling software (Revit) to coordinate mechanical distribution.
- + Designed IP network infrastructure and video surveillance systems to integrate with, and act as an extension of, the existing Robarts Library systems.

LOCATION
Toronto, ON

SMITH + ANDERSEN
SERVICES PROVIDED
Mechanical, Electrical,
Communications, Security,
Sustainability (Footprint)

KEY TEAM MEMBERS
Diamond Schmitt Architects

SIZE
46,328 sq. ft. (4,304 sq. m.)

BUDGET
Confidential

COMPLETION YEAR
2021

AWARDS
CISC ICCA Ontario Awards,
Excellence in Steel Construction
(2022)

HOT BUTTONS

POST-SECONDARY

STUDENT LIBRARY

ADDITION

SUSTAINABLE DESIGN

BRIDGE CONNECTION

LED LIGHTING

BIM (REVIT)

SECURITY DESIGN

