



UNIVERSITY OF WINDSOR

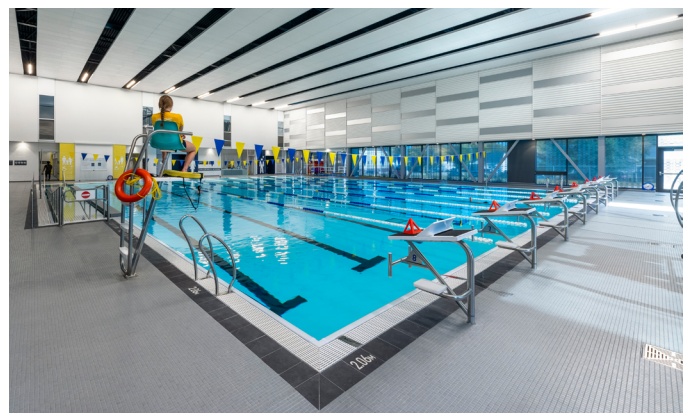
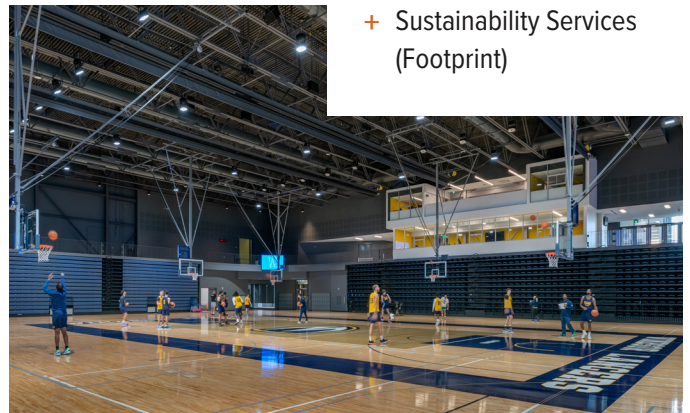
TOLDO LANCER CENTRE

WINDSOR, ON



QUICK FACTS

- + Design-Bid
- + Gymnasium and Recreation Centre
- + Integrated Systems Testing
- + 122,300 square feet
- + \$55-Million Budget
- + NIRSA, *Outstanding Facility Award* (2023)
- + Smith + Andersen Mechanical, Electrical, Communications, Security, and Intelligent Integrated Systems
- + Sustainability Services (Footprint)





UNIVERSITY OF WINDSOR TOLDO LANCER CENTRE

ABOUT THIS PROJECT

- + Construction of a new sport and recreation facility, integrated with the existing 63,000-square foot St. Denis Centre, on the University of Windsor campus.
- + Scope includes a three-court gymnasium with seating for 2,000, an eight-lane, 25-metre indoor pool, a suspended three-lane recreational jogging track, a fitness centre, alumni lounge, three multi-purpose areas, a social hub, change rooms, the expansion of outdoor facilities, and the relocation of the existing main entrance.
- + Mechanical design is divided into four main areas to accommodate different conditions, user activity, and occupancy.
- + Lighting controls in the gymnasium are designed for individual fixture control, and integrated with the audio-visual system.
- + Installation of timed and PIN-based access systems to the facility meet the University of Windsor's security requirements while accommodating visiting teams.
- + All fitness areas are served by a demand ventilation system based on CO2 levels.
- + Dedicated enthalpy recovery units in the pool and gym change rooms use the energy of exhausted air to stream and circulate fresh air.
- + Gym air handling units feature a cross-over duct arrangement to allow flexibility in the triple height gym's function and occupancy rate, and additional sustainability options are provided by allowing coil by-pass and economizer mode.
- + Integrated Systems Testing (IST) plan was executed in two phases to allow for partial occupancy and final building occupancy.
- + The pool water system filtration and recirculation design included a regenerative media filter with high filter exchange rates, and CO2, pH, chlorine and UV filtration to capture micro containments.
- + A power monitoring system allows facility management to monitor the energy consumption of the new building.
- + Horizontal cabling for wireless access points supports 802.11ac WiFi standard, which was required to allow the facility to host large sporting events.

LOCATION

Windsor, ON

SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Electrical,
Communications, Security,
Intelligent Integrated Systems,
Sustainability (Footprint)

KEY TEAM MEMBERS

CS&P Architects
Colliers
EllisDon
Fortis Group
HCMA Architecture + Design

SIZE

122,300 sq. ft. (11,360 sq. m.)

BUDGET

\$55 Million

COMPLETION YEAR

2022

AWARDS

NIRSA, *Outstanding Facility
Award* (2023)

HOT BUTTONS

DESIGN-BID

POST-SECONDARY

RECREATION

AQUATICS

MECHANICAL

ELECTRICAL

FITNESS

SPORTS FACILITY