



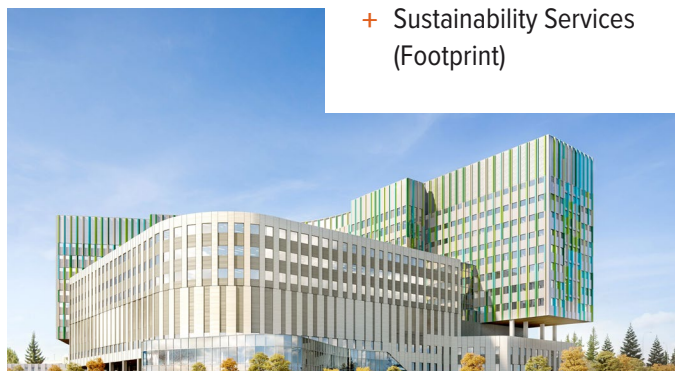
ARTHUR J.E. CHILD COMPREHENSIVE CANCER CENTRE

CALGARY, AB



QUICK FACTS

- + Design-Build
- + Healthcare Facility
- + Laboratory Spaces
- + LEED® Gold
- + Multi Award-Winning
- + More than one million square feet
- + \$1.4-billion Budget
- + Work with Alberta Infrastructure
- + Smith + Andersen Mechanical
- + Sustainability Services (Footprint)



Renderings courtesy of PCL Construction | DIALOG + Stantec



ARTHUR J.E. CHILD COMPREHENSIVE CANCER CENTRE

ABOUT THIS PROJECT

- + Centralizes treatment and care for cancer patients.
- + 160 inpatient beds, 13 Linear Accelerator (LINAC) vaults, two innovation treatment vaults, more than 100 patient exam rooms, and more than 100 chemotherapy chairs.
- + Engaged as a key member of the mechanical consulting team.
- + Ambitious energy targets and construction milestones required an integrated design approach, allowing team members across disciplines to collaborate in real time.
- + Leverages air handling unit (AHU) with energy consumption of approximately one watt per CF, and low flow plumbing fixtures throughout the building.
- + Equipped each vault and MRI room with a pre-action sprinkler system.
- + Dedicated equipment on site provides domestic water, natural gas, sanitary systems, steam, chilled water, and pneumatics.
- + Equipped isolation rooms and departments to maintain pressure controls across adjacent areas to avoid contamination.
- + Key factors in the facility design include mercury reduction, enhanced air quality, environmental site assessments, and direct exterior access and places of respite.
- + Designed laboratory fume hood exhaust, nuclear exhaust, and hazardous material exhaust systems to safely and effectively remove the contaminate at the source.

LOCATION
Calgary, AB

SMITH + ANDERSEN
SERVICES PROVIDED
Mechanical, Sustainability
(Footprint)

KEY TEAM MEMBERS
Alberta Infrastructure
Alberta Health Services
DIALOG
Stantec
PCL Construction

SIZE
1,367,000 sq. ft. (127,000 sq. m.)

BUDGET
\$1.4 Billion

COMPLETION YEAR
2023

CERTIFICATIONS
LEED® Gold

AWARDS
Building Transformation
Innovation Spotlight Awards,
*Project Delivery, Asset
Management & Lifecycle Award*
(2022)

American Concrete Institute
Alberta Chapter Awards, *Award
of Excellence in Concrete –
Buildings Category* (2022)

CanBIM Innovation
Spotlight Awards, *Design &
Engineering* (2018)

HOT BUTTONS

HEALTHCARE

DESIGN REVIEW

INPATIENT ROOMS

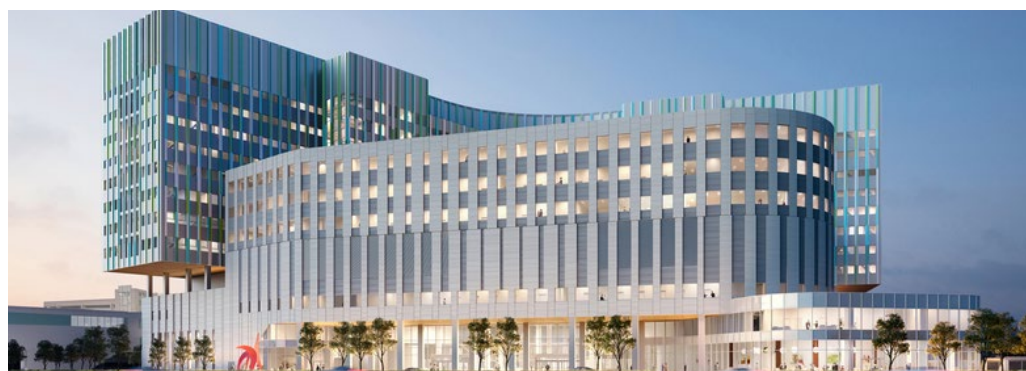
TREATMENT VAULTS

MRI ROOM

LABORATORIES

DESIGN-BUILD

SUSTAINABLE



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