

2019 Alberta Steel Design Awards of Excellence - Finalists

Award winners will be announced at the
2019 Alberta Steel Design Awards of Excellence Gala
Thursday, May 2, 2019
Alberta Ballroom, Edmonton EXPO Centre

Ticket can be purchased online at <https://www.cisc-icca.ca/awards/albertaawards/>

Project Name: 61st Avenue S.W. Pedestrian Bridge

Submitted by: RJC Engineers

CISC Members: RJC Engineers, Metal-Fab Industries Ltd., DIALOG

The pedestrian overpass at 61st Avenue and Macleod Trail SW is a long-anticipated connection across Macleod Trail with an extension directly into the second floor of Chinook Centre. The primary objectives of the project were to provide improved connectivity between adjoining properties, alleviate traffic congestion, and provide a safer, more inviting crossing over Macleod Trail.

RJC, as Prime Consultant on the project, developed multiple bridge alignments, access structure options, and unique span configurations. The project is cost-shared between the City of Calgary and Cadillac Fairview, involves complex legal land considerations, and exists within a busy pedestrian and vehicle environment. Additional challenges overcome during design include: a broad extent of buried utilities, minimal available land, and traffic signals in close proximity to the span.

Project Name: Brookfield Residential YMCA at Seton

Submitted by: RJC Engineers

CISC Members: RJC Engineers, Quirion Metal

Brookfield Residential YMCA at Seton is a new recreational destination in Calgary that features the world's largest YMCA. Situated in the heart of a vibrant urban centre in southeast Calgary, the facility provides a blend of leisure, sports, arts, cultural and recreational amenities for individuals and families while providing a competitive sport venue for Calgary's amateur sport community. The approximately 330,000 square foot facility is home to a variety of amenities including two ice rinks, three gymnasiums, multi-purpose meeting and conference rooms, studio space, a full service Calgary Public Library branch, theatre space and multiple sport and leisure pools. The unique design provides ample natural light through the undulating, irregular roof and triangulated architecturally exposed structural steel.

Project Name: Calgary International Airport Baggage Handling Replacement
Submitted by: Superm etal Structures Inc.
CISC Members: Superm etal Structures Inc., RJC Engineers

Located in the heart of the precast domestic terminal, the existing conveyor belt baggage structure was replaced by a modern variable-speed transfer system while remaining operational. The carefully coordinated change-out has been compared to open-heart surgery as there are many arteries of the Airport that rely on the M&E systems in the "Airside" region.

Superm etal's investigative clash detection and lifting strategy team was deployed weeks and months before fabricated beams that support the new baggage system arrived. The highlight of this team and the overall project was the creation of a live electronic clash and resolution report system. The report system was accessible by all trades and was the main focus of weekly collaborative meetings.

Through innovative coordination, YYC's heartbeat never missed a beat.

Project Name: Edmonton Tower
Submitted by: Stantec
CISC Members: Stantec

Valued at over \$200 million, Edmonton Tower is a 618,000 square foot glass edifice that sits in the heart of the busy ICE District and ascends 27 floors into the sky. This AAA commercial office development has a unique curved fa ade, dramatic floor-to-ceiling perimeter glazing, expansive tower floor plates, a grand public lobby, a childcare service with accessible pick-up and drop-off from the parkade, public art on display outside the building, and pedways leading to downtown amenities. With unparalleled features and comforts, this transformative project is home to over 2,000 hard-working Edmontonians and testament to our team's dedication to quality and community.

Project Name: Enoch Cree Nation K-12 School
Submitted by: The Workun Garrick Partnership
CISC Members: Collins Steel, Protostatix Engineering

In March 2017, The Workun Garrick Partnership Architecture and Interior Design Inc. were selected to provide Design and Consulting Services for the proposed new Enoch K-12 School. The intent is to construct a new facility that is functional, flexible and inspires learning.

Project Name: MAX Purple Transitway Shelters

Submitted by: Stantec

CISC Members: Stantec, Metal-Fab Industries Ltd.

A key element of the City's plan to expand transit, Calgary's first dedicated Bus Rapid Transit (BRT) corridor, MAX Purple, is now open and serving the community. To be successful, the project required a transit shelter solution that could be used across the city on varying scales while maintaining a consistent look and level of quality. GEC Architecture and Stantec set out to create a scalable solution using steel as the primary construction element. The result is a "kit of parts" which allows the same components of a shelter to be used for a variety of scales for over 100 platforms and associated infrastructure in all four quadrants of Calgary. A great example of integrated architecture and engineering efforts, this project will serve as a precedent for other jurisdictions in Canada on how to cost-effectively enhance transit while improving the public realm

Project Name: Mechanized River Valley Access

Submitted by: DIALOG

CISC Members: DIALOG, Norfab Mfg (1993) Inc., Supreme Group

Edmonton's North Saskatchewan River valley is the largest urban parkland in North America. The top of the river bank (downtown) is cut off from the valley and trail system below by an unfortunate network of roadways, a steep slope, and an elevation change of 50 m.

The large elevation difference and steep slopes of the river valley are part of its great beauty, but also makes access difficult for users with mobility challenges. The Mechanized River Valley Access project addresses this challenge—rich in the potential to engage every person, regardless of mobility, in an elegant and organic narrative with the city's ribbon of nature.

The journey includes a funicular and wide urban stair, promenade, park, pedestrian bridge, 19 m cantilever lookout, elevator, and stairs.

Project Name: Montreal House
Submitted by: Sturgess Architecture
CISC Members: Entuitive

This home for a young family was the foundation for an experimental re-imagination of how a house could be conceived and constructed while still respecting its established surroundings. The clients envisioned a series of active and passive recreational spaces for their family. This is manifested into a seamless series of living spaces that support free communication and interaction within the house. As a generator of privacy and expression, a folded metal carapace roof is wrapped around the formal program of the house, simultaneously shielding it from encroaching site conditions and opening it to a western lawn. East-facing bedrooms puncture the protective carapace to catch the morning sun and acknowledge the neighbours.

Project Name: New Central Library
Submitted by: Entuitive
CISC Members: Entuitive, DIALOG, Superm etal Structures Inc.

Buildings of 2018, the New Central Library, located in Calgary's East Village, is one of Alberta's most important and distinctive cultural institutions, with signature design by Sn hetta and Architect of Record, Dialog.

Since opening, the library has been celebrated for incorporating design-forward features, including an interlocking hexagonal fa ade and a western cedar clad grand entryway portal inspired by Alberta's Chinook Arches.

With striking architectural design constructed atop Calgary's busiest LRT line, the library aims to serve its community with passion and inspire life stories. Its design places a strong emphasis on public accessibility and community-oriented spaces with 80% of the building, including collections areas, allocated to public space.

Project Name: Sakaw Terrace
Submitted by: RPK Architects
CISC Members: Collins Steel, D.R. Steel, Canam Group Inc.

A seniors' housing project unlike anything ever seen in Western Canada was recently opened in Edmonton's Mill Woods community. Sakaw Terrace is GEF Seniors Housing's (GEF) newest building, and it is here to set a new standard. GEF sought various inputs from the community during the design of the 158 unit building, which includes 2 courtyards, a communal greenhouse, a theatre room, a hair salon, and underground and above ground parking. The project was built on Integrated Project Delivery (IPD), a collaborative approach that involved 10 partners and the owner. It is intended to spark further developments in an area of the city which has a population of 20,000 seniors and strong need for affordable housing

Project Name: Stanley A. Milner Library Renewal

Submitted by: Waiward Industrial LP

CISC Members: Vulcraft Canada, Inc., Stantec

The Stanley A. Milner Library, located in the heart of downtown Edmonton across from Churchill Square, originally opened in 1967 and in 2014, City Council approved funding for a top to bottom revitalization and renewal project of the 50 year old concrete structure. The overall project consists of major demolition, hazardous material abatement, removal of the existing facade and installation of a new structural steel facade, interior steel seismic reinforcements of existing concrete columns, stair and access ramps, installation of open web steel joists, floor/roof decking, site development on the south side and a new lower level connection from the Library interior to the LRT.

Innovative uses of structural steel to support the dramatically contoured facade were achieved through a creative system of trusses. Other steel highlights included a slender reading ramp that wraps around the open atrium space, and the design and installation of a steel cross brace lateral system within the existing concrete structure.

Project Name: Technology and Trades Renewal and Innovation Project, Lethbridge College

Submitted by: Diamond Schmitt Architects

CISC Members: Entuitive

The Technology and Trades Renewal and Innovation Project (TTRIP) at Lethbridge College dramatically increases the facility's size and program with state-of-the-art training opportunities for students. The 170,000-square-foot expansion organizes new workshops, labs, offices and classrooms around a north-south central spine and adjacent learning commons.

The building's shape references both local land forms as well as optimizes daylight access, building envelope performance and mechanical-electrical system integration. The new facility is a centre that fosters interdisciplinary innovation among students, instructors and industry partners – a key theme of the college's academic vision.

A comprehensive array of passive and active sustainable design features including net zero utility cost to operate the expansion at no more than the smaller facility it replaces, positions the project to achieve LEED gold certification.

Project Name: Walterdale Bridge

Submitted by: DIALOG

CISC Members: DIALOG, Supreme Group, Norfab Mfg (1993) Inc.

The Walterdale Bridge in Edmonton creates a striking new entrance into the downtown and a unique gathering place in the heart of North America's largest urban parkland. The bridge is a gracious, single span, twin through-arch steel structure, spanning 206 m (greater than the length of two football fields) from bank to bank across the North Saskatchewan River in the heart of Edmonton. It carries three lanes of northbound vehicle traffic, a sidewalk to the west of the roadway and a separated footbridge or shared-use path for pedestrians and cyclists to the east. The result is a signature structure that blends with its natural setting and creates a landmark gateway to the city's downtown.