



Photo: IBI Group



Photo: CTP



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THE GERRY WRIGHT OPERATIONS AND MAINTENANCE FACILITY (OMF)

The Gerry Wright Operations and Maintenance Facility (OMF) received LEED Silver certification in November 2021. The new multipurpose building is a 17,352 m² single complex light rail vehicle (LRV) storage facility that condenses the functionality of three individual buildings into one: an LRV heavy maintenance area, an LRV storage and maintenance area, and an administration and workshop area. It is part of the southeast leg of the Valley Line LRT, which is anticipated to host over 100,000 trips per day with the completion of the western leg circa 2027. The Gerry Wright OMF's completion and certification represents a major construction milestone, with the building being a striking visual highlight of the City of Edmonton's new low floor, urban-style LRT system.

The Gerry Wright OMF will play a critical role in ensuring timely operation and maintenance of the Valley Line's LRV fleet for the next 30 years and beyond, and was consciously designed to meet the City of Edmonton's Sustainable Urban Integration principles. These principles focus on integrating all new infrastructure into existing communities and environs in a sustainable, efficient, and aesthetically suited manner.

The OMF incorporates two notable innovations in its design. The first innovation mitigates significant heat loss during operations. This issue was resolved by designing and manufacturing specialized rubber gaskets for each catenary cable, which were then attached to each oversized bi-fold door. Once opened, air curtains found above these doors turn on, and prevent the warm interior air from escaping. The second innovation was to rethink and refine how the OMF's commercially-produced metal panels were co-joined.

Design innovations led to a paneling system that eliminated thermal bridging, improving the insulation performance of the exterior envelope.

Regarding aesthetics, land and water use, the building was designed with a modern, forward-thinking identity meant to enhance the surrounding commercial and industrial zone. This included extensive use of landscaping, berming, and building massing to screen open material storage and soften the industrial function of the site. There are also external cladding/louvres used to conceal all the major mechanical rooftop equipment from the public view. Potable water is not being used for the landscaping, and water use in the facility is estimated to be at 40% below baseline. The facility also includes future strategic measures to promote conservation, including re-using the overhead LRV wash water in the undercarriage wash cycle.

The Gerry Wright OMF features active and sustainable transportation options for staff and visitors including electric vehicle charging stations, bike racks, and close proximity to the Valley Line LRT.



More information about the Gerry Wright OMF can be found online at transforming.edmonton.ca, and the City of Edmonton website: www.edmonton.ca/valleyline



Silver Rating Achieved

Sustainable Sites	5/10
Water Efficiency	7/11
Energy & Atmosphere	16/33
Materials & Resources	4/13
Indoor Environmental Quality	7/16
Innovation in Operations	4/6
Regional Priority	3/4
Location & Transportation	7/20
Integrative Process Credits	0/1
Project Totals	53/110

Client City of Edmonton

Location Edmonton, Alberta

Project Size 17,352 m²

Status Completed May 2021

Owner's Engineer AECOM Canada Ltd. with various subconsultants branded as connectEd Transit Partnership

Design Builder TransEd Partners with IBI Group as the Architect