



Eglinton Crosstown Transit Stations

Designing modern underground transit stations for Toronto's rapid transit network

The multi-billion dollar Eglinton Crosstown Light Rail Transit (LRT) project is a dedicated transit line stretching almost 12 miles (19 kilometers), providing a new east to west link across the most populated areas of Toronto, Ontario. Half the line is underground, serviced by 13 stations and the remaining track is above ground, serviced by 12 stations. NORR (via CTS) has been engaged for architectural services as one of four architectural consultants on the Design, Build, Finance, Maintain (DBFM) delivery. NORR's scope includes the design of three fully accessible below grade stations: Caledonia Station; Mount Pleasant Station and Cedarvale Station.

Caledonia Station will provide access to existing subway lines and to Light Rail Vehicles via a platform level located at approximately 22 meters below grade. At street level, the station entrances are designed to provide interchange connection to buses via an integrated bus loop at one entrance of the station - and the potential for a three track two platform interchange to Toronto's GO Transit, a regional service, at a later date.

At Mount Pleasant Station, there will be two entrances; one of the entrances will extend through the exterior of a nearly century-old landmark building where its façade will be reconstructed from hundreds of meticulously catalogued panels that were stored off-site during the below grade construction. The station will feature retail at street level and on-street connections to TTC buses.

Cedarvale Station is an underground interchange station that connects to existing subway lines. To accommodate for the expected high volume at this interchange, the design features two entrances, one on the east side and one on the west. Secure bike parking was an important commuter component at this station.

CLIENT	Metrolinx
PORTFOLIO	Transportation
CATEGORY	Public Transit
SIZE	Caledonia Station: 88,716 SF (8,242 SM), Cedarvale Station: 236,289 SF (21,952 SM), Mount Pleasant Station: 101,116 SF (9,394 SM)
LOCATION	Toronto, ON, Canada
DATE	Fall 2021
SERVICES	Architecture

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Transportation

NORR's Transportation Studio develops aviation, transit and multi-modal hub solutions for clients around the world. We understand the needs of government and private operators to maintain, upgrade and provide new transportation services and supporting infrastructure. Our design solutions are purpose-driven to build better, more efficient and environmentally-friendly transportation nodes that incorporate flexibility for future system expansion.

Integrated Designs for Aviation

NORR has proven expertise in all aspects of airport design, engineering and operations, from curb side to airside. Our global team has designed and managed complex projects for the transportation industry, including terminal buildings, parkades, maintenance and training hangars, de-icing facilities, runways, taxiways and aprons. Our design work extends to master planning, interior reconfigurations, lounges and retail buildouts. NORR has been involved with prestigious projects located worldwide, beginning in 1964 with Canada's largest airport, Toronto Pearson International Airport.

Managing the Complexity of Transit Projects

Public transit, including subway and light rail transit, is vital to a healthy sustainable city. At NORR, we work collaboratively with all levels of government and private operators to provide planning and programs that increase capacity, eliminate spatial and technical limitations on balance with financial realities. We have

developed a framework for detailed project phasing and staging strategies, for design implementation through to construction, that has the least impact on the system and traffic flow.

Multimodal Transit Hubs

All levels of government are looking to move people and goods through multimodal transit hubs providing more options, enhanced service and increased efficiencies. NORR has been at the forefront of planning, developing, and implementing projects that include regional transit, railway and, ferry terminals and border crossings. Our experience goes far beyond design and engineering. Today, the reduction of carbon dioxide emissions, elimination of noise pollution and resolution of other environmental issues are all integral aspects of our work.

CONTACT

Rolfe Kaartinen, Vice President
T 416 944 7816
E rolfe.kaartinen@norr.com
norr.com

