



REPORT FOR ACTION

Contract Award – Electric Vehicle Infrastructure – 2022-CON-VAR-D50.1 – 75 Holly Street (Car Park 29), 2 Church Street (Car Park 43) and 11 Wellesley Street West (Car Park 304)

Date: May 11, 2022

To: Board of Directors, Toronto Parking Authority

From: President, Toronto Parking Authority

Wards: Ward 10, Spadina-Fort York; Ward 12, Toronto-St. Paul's; Ward 13, Toronto-Centre

SUMMARY

As the centrepiece of Toronto Parking Authority's (TPA) strategic platform, management is developing an Electric Vehicle (EV) Charging Program that will leverage TPA's portfolio of 300+ off-street facilities and 20,000 on-street parking spaces to develop a public network of EV charging infrastructure. EV charging services are a key component of TPA's transformation to a mobility provider and support Toronto's Net Zero Strategy.

As part of Phase 1 of TPA's EV Charging Program, TPA is planning to install up to 500 EV chargers at nearly 30 centrally-located off-street parking facilities by the end of 2024. This will represent the first phase of TPA's EV Charging Infrastructure Plan, which will see a comprehensive network of EV chargers constructed across TPA's portfolio of off-street and on-street parking.

TPA issued a request for proposals (RFP) to retain the construction services needed to complete the installation of 65 EV chargers and accompanying electrical infrastructure at Car Parks 29, 43 and 304 located at 75 Holly Street, 2 Church Street, and 11 Wellesley Street West, respectively. These three (3) car parks are the first TPA off-street locations which will receive EV chargers as part of TPA's Electric Vehicle Charging Program. Construction services also include the installation of electrical infrastructure to support the installation of an E-Bike Share Station at Car Park 43. Construction Contract for 2022-CON-VAR-D50.1 CP29, 43 and 304 be awarded to Energy Networking Services Inc. in the amount of \$1,049,921.79 plus \$315,078.21 as a contingency allowance, being the sum total amount of \$1,365,000.00 excluding Harmonized Sales Tax (HST). Sufficient funding to award this contract is available in the 2022 Capital Budget and 2023 – 2031 Capital Plan.

RECOMMENDATIONS

The President, Toronto Parking Authority recommends that:

1. The Board of Directors of Toronto Parking Authority provide authority to the President, Toronto Parking Authority, to award the Electric Vehicle Infrastructure Construction Contract for 2022-CON-VAR-D50.1 CP29, 43 and 304 be awarded to Energy Networking Services Inc., having submitted the lowest compliant bid and meeting all specifications in conformance with the Construction Tender requirements, in the amount of \$1,049,921.79 plus \$315,078.21 as a contingency allowance, being the sum total amount of \$1,365,000.00 excluding Harmonized Sales Tax.

FINANCIAL IMPACT

The amount to award the Electric Vehicle Infrastructure Construction Contract for 2022-CON-VAR-D50.1 CP29, 43 and 304 is \$1,049,921.79 plus \$315,078.21 as a contingency allowance, being the sum total amount of \$1,365,000.00 excluding HST.

Sufficient funding for this work is available in the approved TPA 2022 Capital Budget and 2023 – 2031 Capital Plan.

TPA is also actively seeking climate-related funding opportunities from senior levels of government. Should TPA be successful in obtaining climate-related funding, the Electric Vehicle Infrastructure Construction Contract will be eligible to receive rebates against costs incurred in delivering this project.

DECISION HISTORY

At its meeting of February 18, 2022, TPA Board of Directors (Item PA28.8) authorized staff to enter into detailed design contracts with CIMA Canada Inc. and WSP Canada Inc., each with an upside limit of \$1,000,000 (excluding Harmonized Sales Tax (HST)) for consultant services to complete the design, tendering and construction administration of related to the installation of up to 500 EV chargers at nearly 30 TPA off-street locations. Further information about this report can be found at the link below:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2022.PA28.8>

COMMENTS

As part of Phase 1 of TPA's EV Charging Program, TPA is planning to install up to 500 EV chargers at nearly 30 off-street locations. This will represent the first phase of TPA's Electric Vehicle Charging Infrastructure Plan which will see a comprehensive network of EV infrastructure constructed across TPA's portfolio of on-street and off-street parking.

To build this public charging network, TPA requires the assistance of construction services needed to complete the installation of 65 EV chargers and the accompanying electrical infrastructure at TPA Car Park 29, 43 and 304 respectively.

Table 1: Summary EV Chargers to be Installed at Car Parks 29, 43 and 304

Car Park	Address	Level 2 – 7.2 kW	Level 2 - 19.2kW	DCFC (50 kW)
29	75 Holly Street	24	4	1
43	2 Church Street	20	4	4
304	11 Wellesley Street West	8	-	-
Totals		52	8	5

In addition, given the scope of electrical services as part of this construction project and the available space at Car Park 43, TPA will also be space proofing and upgrading electrical infrastructure for an Electric Bike Share Station to help support the rollout of E-Bikes across the Bike Share Toronto network.

Layouts showing the location in which the EV chargers will be installed at each Car Park are shown in Attachments 1 through 3.

TPA is recommending the installation of both Level 2 and DC fast chargers at Car Parks 29 and 43, and Level 2 chargers at CP 304. This is primarily driven by the available electrical supply at all sites and the desire to prototype a variety of EV charger types to generate insights and help inform future EV expansion plans across the network. A 7.2 kW Level 2 charger provides approximately 45 kilometres of range during a one (1) hour charge while a 19.2 kW Level 2 charge provides approximately 110 kilometres of range during a one (1) hour charge. A 50 kW DC fast charger provides approximately 225-250 kilometres of range during a one (1) hour charge.

The RFP was published on MERX on April 11th, 2022, with two (2) bids received prior to the closing of the tender period on May 4th, 2022. Bid submissions were reviewed by both TPA staff and TPA’s design consultant, CIMA Canada Inc. (CIMA). The selection was guided by the fee quoted, technical capabilities of the bidder, submission requirements and acceptance of the terms and conditions noted in the RFT. A letter of recommendation for award was provided to TPA by CIMA.

Table 2: Summary of Bids Received (2022-CON-VAR-D50.1– Electric Vehicle and e-Bike Infrastructure at CP 29, 43, 304)

<u>Contractor</u>	<u>Ranking</u>	<u>Bid Price (excl HST)</u>
Energy Networking Services Inc.	1	\$1,043,171.79
Black and McDonald Ltd	2	\$1,595,000.00

Should TPA Board of Directors adopt the recommendations in this report, TPA will notify the consultants and proceed to the contract execution stage. Project initiation is expected by mid-June 2022 with completion of the work targeted for the fourth quarter of 2022. Commissioning of the equipment will occur before the end of the year.

CONTACT

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SIGNATURE

W. Scott Collier, President
Toronto Parking Authority

ATTACHMENTS

Attachment 1 – Car Park 29 (75 Holly Street) Layout
Attachment 2 – Car Park 43 (2 Church Street) Layout
Attachment 3 – Car Park 304 (11 Wellesley Street West) Layout

ATTACHMENT 1 – CAR PARK 29 (75 HOLLY STREET) LAYOUT



