



Report for Action

Roncesvalles Track and Carhouse Modifications

Date: February 15, 2018
To: TTC Board
From: Chief Capital Officer

Summary

The purpose of this report is to obtain authorization for the award of Contract G35-54, Roncesvalles Track and Carhouse Modifications for New Low Floor Light Rail Vehicles (LFLRV) to Maystar General Contractors Inc. (Maystar) in the amount of \$20,899,350.00, inclusive of all taxes on the basis of the lowest total bid price.

The work of this contract includes state of good repair rehabilitation of the Roncesvalles Yard tracks and utilities, an extension of Carhouse Inspection Bay No. 1 to accommodate longer LFLRVs, replacement of interior tracks for Inspection Bay No. 1, provision of a new high level inspection platform for vehicle maintenance access, and other miscellaneous Carhouse modifications.

Recommendations

It is recommended that:

1. The Board authorize award of Contract G35-54, Roncesvalles Track and Carhouse Modifications for New LFLRV, to Maystar General Contractors Inc. in the amount of \$20,899,350.00 inclusive of all taxes on the basis of the lowest total bid price.

Financial Summary

Sufficient funds for this expenditure are included in the TTC's 2017-2026 Capital Budget under 3.9 Building and Structures Program, LRV Carhouse Facility Renewal Program and 1.2 Surface Track Replacement Program, State of Good Repair, which was approved by City Council on February 15, 2017.

The Chief Financial Officer has reviewed this report and agrees with the financial impact information.

Equity/Accessibility Matters

Modifying Roncesvalles Carhouse and Yard for the new LFLRVs supports the TTC's commitment to make the system accessible by 2025.

Decision History

The requirement for review of the existing Streetcar Carhouses/Yards was initiated following the decision to replace the existing streetcar fleet with new, technologically advanced, accessible LFLRVs, which are longer and have greater passenger capacity than existing streetcars.

Issue Background

The Roncesvalles facility will become the west end maintenance and storage facility for the new LFLRVs. As Leslie Barns and Russell Carhouse are expected to be at full capacity by the end of 2018, modifications to Roncesvalles are required by the end of this year in order to begin accommodating the new vehicles.

Roncesvalles Carhouse requires upgrades to accommodate the new accessible LFLRVs which comprise the newest fleet of vehicles. In addition to being longer than their predecessors, they have different features including roof-mounted components, pneumatic sand fill, and pantograph OCS (Overhead Contact System) operation, all of which require modifications to the carhouse to accommodate vehicle servicing and maintenance needs.

To maintain Roncesvalles in a state of good repair, it is necessary to replace the tracks and special track work for the north area of the yard, as it is at the end of its useful life. The tracks are over 20 years old and any derailment would impact TTC's ability to meet its service obligations. Deferral of this work will increase operating costs as additional maintenance would be required to keep the tracks in service. Deferral could also result in the partial closure of tracks which will adversely affect the service provided to our customers. In addition to replacing the tracks in the yard, this work includes track alignment improvements to better accommodate LFLRV operations and a track extension to allow increased storage capacity. Drainage upgrades, in accordance with legislative requirements, are also included in the scope of work.

The tracks for the eastern, western and southern portions of the yard have been replaced and are not included in the scope of this contract. As such, any future yard construction is expected to be minor in scope.

Comments

The work of this contract consists of the supply of all labour, equipment and materials for the extension of Inspection Bay No. 1 of the Roncesvalles Carhouse building to accommodate the longer LFLRVs. This includes replacement of existing interior tracks 21, 22 and 23, provision of a high level platform for vehicle maintenance, removing interferences to allow for pantograph operation, overhead door upgrades and miscellaneous mechanical and electrical modifications associated with the work. This contract also includes replacement of tracks and special track work for the north area of the yard, extension of track 6 to allow additional storage, and replacement of OCS poles to allow pantograph operation. This major track replacement prepares the yard for LFLRV operation. Elements of the contract scope are shown in Appendix A.

To facilitate construction, there will be no service delivery from Roncesvalles for the remainder of 2018. It is anticipated that a skeleton crew of maintenance staff will be on site to address state of good repair work on the legacy fleet. Starting in 2019, Roncesvalles is scheduled to operate at 50% service delivery and storage capacity as the number of new LFLRVs expected by end of 2018 will result in Leslie Barns and Russell being at full capacity. Full capacity will be restored at Roncesvalles upon completion of the construction work which is expected by the end of 2020.

Construction activities will be contained within the Roncesvalles facility and TTC construction management field staff will be present for the duration of the construction and will work with the contractor to identify and mitigate any potential disruptions.

Specifications and drawings were prepared for Contract G35-54 and a Request for Bids (RFB) was posted on the TTC's Website and Merx as of November 1, 2017. A mandatory site tour was held on November 14, 2017.

The RFB stated that the bidder must have a representative present at the mandatory site tour, and have signed the attendance sign-in sheet, in order for its bid to be evaluated by TTC. Twenty companies downloaded copies of the bid documents, fifteen companies attended the mandatory site tour of which five submitted a bid by the closing date of January 10, 2018, as indicated in Appendix B.

The RFB also stated that bidders must be Certificate of Recognition (COR™) registered, with Infrastructure Health and Safety Association (IHSA), at the time of the closing and for the duration of the term of contract. Staff verified through the IHSA website that all five bidders are COR™ registered.

Maystar submitted the lowest priced bid and did not state any exceptions or qualifications. Reference checks were completed which indicate that they have satisfactorily performed work of a similar size and nature in the past for the TTC and other organizations. Maystar's bid is considered commercially acceptable.

Varcon Construction Corporation submitted the second lowest priced bid and also did not state any exceptions or qualifications and their bid is considered commercially acceptable.

Sanscon Construction Ltd. submitted the third lowest priced bid and also did not state any exceptions or qualifications and their bid is considered commercially acceptable.

The Agreement to Bond submitted by Maystar covers both a labour and material payment bond and a performance bond and was submitted by Zurich Insurance Company Ltd., who has been verified as a surety company licensed to transact business under the Insurance Act of Ontario. As such, they are considered financially capable of performing the work.

The successful bidder will be required to execute a performance bond and labour and material payment bond in the amount of 50% of the contract value.

Contact

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Signature

Susan Reed Tanaka
Chief Capital Officer

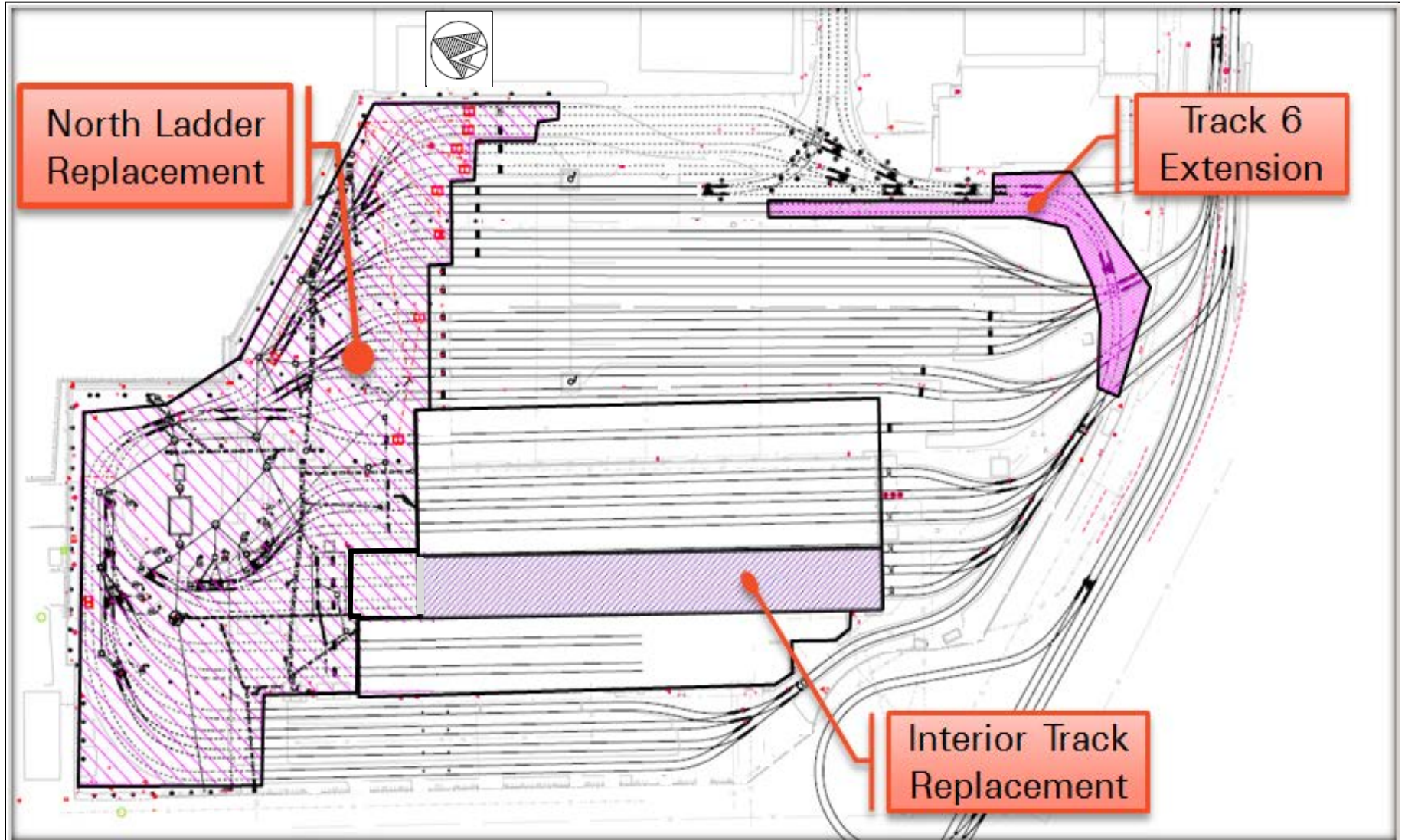
Attachments

Attachment 1 - Appendix A – Roncesvalles Facility Modifications
Attachment 2 - Appendix B – Summary of Bids

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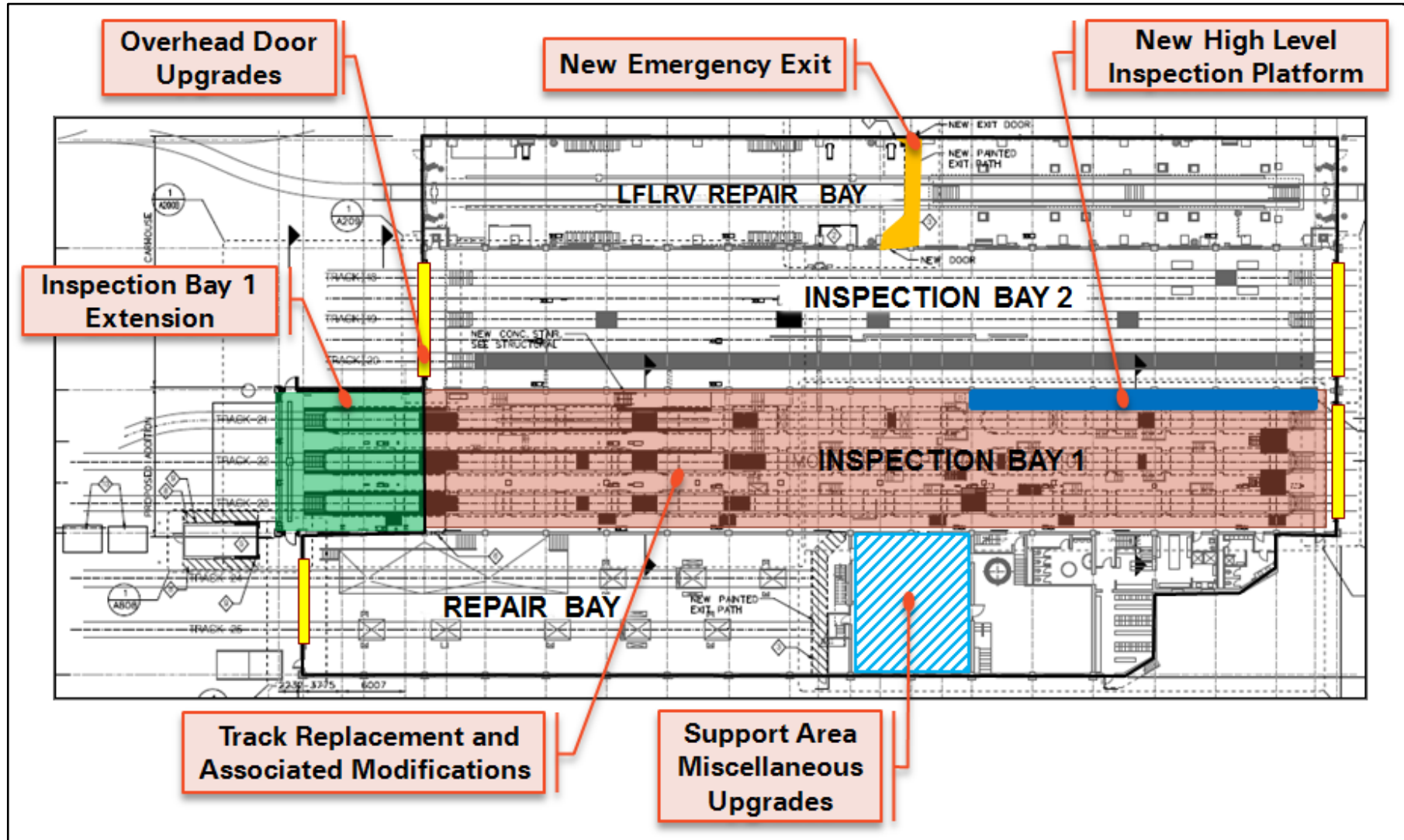
APPENDIX A - Roncesvalles Facility Modifications

Figure 1 – Roncesvalles Track Modifications



APPENDIX A - Roncesvalles Facility Modifications (Cont'd.)

Figure 2 – Roncesvalles Carhouse Modifications



APPENDIX B - Summary of Bids

RONCESVALLES TRACK AND CARHOUSE MODIFICATIONS

COMPANY	TOTAL BID PRICE
Maystar General Contractors Inc.*	\$20,899,350.00
Varcon Construction Corporation	\$21,588,650.00
Sanscon Construction Ltd.	\$22,444,000.00
Bondfield Construction Company Limited	\$22,501,690.00
Black & McDonald Limited	\$30,470,450.00

* lowest total bid price