

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: MAY 28, 2014

SUBJECT: PRINCE EDWARD VIADUCT PIER REHABILITATION: CABLE
REPLACEMENT

ACTION ITEM:

RECOMMENDATION

It is recommended that the Board:

1. Confirm approval to proceed with the unbudgeted cable replacement project, estimated at \$2,782,000.00 in conjunction with the City's Prince Edward Viaduct pier (PEV) rehabilitation; and
2. Forward this report to the City of Toronto for Council approval.

FUNDING

The cable replacement along the Prince Edward Viaduct is a multi-scope state-of-good repair project involving subway track, electrical, communications and signal systems. Given the critical nature of this work, project managers have identified several projects to be deferred beyond 2014 to allow for sufficient funds to accommodate this work. There is no increase to the estimated final cost of these projects. Specifically, projects impacted are as follows:

- Project 1.1 6622 - Subway/SRT Track Rehabilitation Program \$750,000.00
- Project 2.1 6072 - Alternate Feeds for Intersections \$832,000.00
- Project 2.3 6004 - Cable Replacement \$750,000.00
- Project 2.4 7044 - Streetcar Track-Switch \$450,000.00

These State-of-Good-Repair/Safety projects are included in the TTC 2014 – 2023 Capital Budget, which was approved by City Council on January 29/30, 2014. The cable replacement PEV project will be reflected in the next TTC 2015-2024 capital budget submission.

BACKGROUND

In July 2013, City of Toronto staff approached TTC staff with preliminary plans regarding the PEV rehabilitation. The scope of the project involves major structural repairs to the main concrete bridge piers. The TTC has extensive cabling and conduits mounted beside the tracks throughout the length of the bridge and it was anticipated at the time that this cable plant could be temporarily relocated to accommodate the concrete rehabilitation work. In November 2013, the City provided more detailed information including hoarding drawings for TTC review. As a result of the new information, TTC staff revisited the site and in January 2014, concluded that all new cables would be required as the existing cables do not provide enough slack to work around the hoarding.

The full bridge condition survey previously conducted by the City indicates that the concrete rehabilitation work cannot be postponed beyond 2014. Thus, the City has actively proceeded with issuing the required tender. TTC's cable works must be completed before the City's contractor can commence work on the piers adjacent to track level. The City has also advised that the rehabilitation work on the PEV concrete bridge piers must be completed prior to the 2015 Pan Am Games.

DISCUSSION

TTC staff have identified the cables required (type and length) and have developed a solution for how to proceed with the installation prior to the pier rehabilitation work. Preliminary design and procurement activities are underway such that work can commence quickly upon receipt of funding approval.

The cable installation work will be completed during non-revenue hours with no impact on customer service.

Due to the critical nature of the structural repairs, lower priority budgeted work in the Capital Program has been identified for deferral to 2015.

JUSTIFICATION

The City has advised that structural rehabilitation of the Prince Edward Viaduct bridge piers must be completed in 2014. Furthermore, the work must be completed prior to the start of the 2015 Pan Am Games. The existing TTC cables mounted on the bridge piers at subway track level must be relocated prior to the start of the rehabilitation work. Consequently, approval is required to proceed with this unbudgeted work at an estimated cost of \$2,782,000.
