

SUMMARY STATEMENT

ITEM NO.: PATCO-18-002

SUBJECT: Procurement and Installation of New Fare Collection Equipment for New Station Elevators

COMMITTEE:

Operations and Maintenance

COMMITTEE MEETING DATE:

January 9, 2018

BOARD ACTION DATE:

January 17, 2018

PROPOSAL: That the Board authorizes staff to negotiate a contract with Cubic Transportation Systems, Inc. to fabricate and install new fare collection equipment due to the installation of new elevators at six PATCO stations.

Amount: \$ 1,161,567

Firm: Cubic Transportation Systems, Inc.
San Diego, CA

PURPOSE: To contract with Cubic Transportation Systems to fabricate and install new station gates and Ticket Vending Machines needed due to reconfiguration of the stations to facilitate access to the new elevators.

BACKGROUND: In July, 2017, the Board approved a construction contract with AP Construction to install elevators in six PATCO stations. As part of the project, the stations' entrance/exit points will be reconfigured to facilitate access to the new elevators. Due to these reconfigurations, additional fare collection equipment will be needed for the new access points. Additionally, Cubic is needed for assistance in moving the current fare gate configurations to meet the new station design.

Cubic will be contracted to fabricate, install and warranty the following equipment: 4-Type "A" gate stanchions; 2 type "B" stanchions and 4 type "C" gate stanchions. In addition, Cubic will fabricate, install and warranty 2 new Ticket Vending Machines with a paid station side configuration able to upgrade magnetic tickets, the same as the current paid side vending machines. Cubic will assist in moving and installing existing fare gates to meet new configuration in the stations. After installation and movement of all station components, Cubic will add new equipment to the Nextfare Central System and verify all devices are in revenue service.

Cubic Transportation Systems is the current manufacturer/integrator of PATCO's Automated Fare Collection system and the only method of

procurement for the proprietary fare collection devices and software. Staff has reviewed and evaluated Cubic's proposal and determined it to be fair and reasonable.

SUMMARY:	Amount:	\$1,161,567
	Source of Funds:	General Fund
	Capital Project #:	PF1201
	Master Plan Status:	N/A
	Other Fund Sources:	N/A
	Duration of Contract:	1,460 Calendar Days
	Other Parties Involved:	N/A

PATCO-18-002
Operations & Maintenance: January 9, 2018
Board Date: January 17, 2018
Procurement and Installation of
New Fare Collection Equipment for
New Station Elevators

RESOLUTION

RESOLVED: That the Board of Commissioners of the Port Authority Transit Corporation authorizes staff to negotiate a contract with Cubic Transportation Systems whereby Cubic will fabricate and install new fare equipment in support of the installation of new elevators in six PATCO stations in an amount not to exceed \$1,161,567 per the attached Summary Statement; and be it further

RESOLVED: The Chair, Vice Chair and the President must approve and are hereby authorized to approve and execute all necessary agreements, contracts, or other documents on behalf of PATCO. If such agreements, contracts, or other documents have been approved by the Chair, Vice Chair and President and if thereafter either the Chair or Vice Chair is absent or unavailable, the remaining Officer may execute the said document(s) on behalf of PATCO along with the President. If both the Chair and Vice Chair are absent or unavailable, and if it is necessary to execute the said document(s) while they are absent or unavailable, then the President shall execute such documents on behalf of PATCO.

SUMMARY:	Amount:	\$1,161,567
	Source of Funds:	General Fund
	Capital Project #:	PF1201
	Master Plan Status:	N/A
	Other Fund Sources:	N/A
	Duration of Contract:	1,460 Calendar Days
	Other Parties Involved:	N/A



MEMORANDUM: PURCHASES GREATER THAN \$25,000

PORT AUTHORITY TRANSIT CORPORATION



TO: John Rink, GM-PATCO
James White, Chief Financial Officer
John T. Hanson, CEO-DRPA/ President-PATCO

FROM: Kathleen Imperatore, Division Director/Project Manager: Fare Collection Operations

SUBJECT: SOLE SOURCE APPROVAL - Cubic Transportation Systems, Inc.

PURCHASE REQUISITION: TBD

DATE: Wednesday, December 13, 2017

Background:

PATCO has contracted to construct elevators in 6 stations to improve accessibility. The following station entry points will need to be reconfigured to facilitate access to elevators: Collingswood, Westmont, Haddonfield and Ashland. Due to the reconfiguration, additional fare collection equipment will be needed for the new access points. Additionally, Cubic will be needed for assistance in moving the current fare gate configurations to meet the new station designs.

Justification for Proprietary/Sole Source:

Cubic Transportation Systems is the current manufacturer/integrator of PATCO's Automated Fare Collection System and the only method of procurement for the proprietary fare collection devices and software

Cost:

\$1,167,567 Price includes all labor and material to effect installation of gates and TVMs. Devices include 4-type A gate stanchions, 2-type B gate stanchions, 4-type C gate stanchions, 2 paid side configured TVMs, paddles and installation kits for gate stanchions. Priced includes movement and setup of gates already in revenue service in the 4 stations.

Kathleen Imperatore, Division Director

SIGNATURE

John Rink, GM-PATCO

SIGNATURE

James White, CFO

SIGNATURE

John T. Hanson, CEO-DRPA/ President-PATCO

SIGNATURE



2. ASSUMPTIONS AND DEPENDENCIES

The following assumptions have been reviewed and agreed upon between PATCO and Cubic.

1. Cubic will perform a site survey once PATCO's contractor has completed (or nearly completed) the area where the new and relocated equipment will be installed.
2. PATCO will receive the new equipment at the Lindenwold warehouse and Cubic will transport the equipment to the stations.
3. Residual dunnage from crates/unpacking/boxes will be discarded into PATCO dumpsters.
4. PATCO's contractor will provide power, Category 5 cable, and egress control wire coiled at one end of the in-floor wire raceway, with a minimum of 10 feet of extra wire/cable to each device.
5. In-floor duct covers are to be provided by PATCO. Cubic will trim the covers to the correct size upon installation of the fare gates.
6. PATCO is to provide power and communication cables to the new TVM and gate locations.
7. Anchor studs will be cut flush with floor upon existing gate relocation. No other floor restoration is to be performed by Cubic.
8. Collingswood station will require two trips to finish the installation and movement of equipment.
9. Ashland station will require two trips to finish the installation and movement of equipment.
10. Westmont station will require one trip to finish the installation and movement of equipment.
11. Haddonfield station will require one trip to finish the installation and movement of equipment.
12. One additional trip is added for contingency.
13. Equipment may be staged at the work locations one day in advance.
14. Cubic is responsible for installing the new equipment and relocating the existing equipment according to the drawings provided by PATCO's engineering contractor. See Reference [1].
15. No TVMs will be relocated.
16. Cubic requires 10 standard gate installation kits and five wide gate installation kits for this project.
17. PATCO will provide storage for gates that are waiting to be installed.
18. PATCO will send one of their maintainers to the Tullahoma, TN Cubic manufacturing facility to witness the factory acceptance testing instead of requiring the devices to be tested in PATCO locations before accepting the shipment.
19. No union labor will be provided for this project.
20. A newer Citizen brand receipt printer will be used instead of the original obsolete Axiohm receipt printer in the TVM. No software changes will be required on the TVMs or gates. Associated drawings will be changed.
21. No training will be provided.
22. No documentation will be provided.

4. TECHNICAL SOLUTION OVERVIEW

PATCO has requested 10 gates and two TVMs for installation at four stations where elevators are being installed. Additionally, PATCO has requested that Cubic perform the installation and the installation acceptance testing.

4.1 HARDWARE

PATCO has requested 10 new Fare Gates and two paid side TVMs for use at four stations. The four stations include:

- Ashland
- Haddonfield
- Westmont
- Collingswood

The 10 new gates include the following:

- Four A gates
- Two B gates
- Four C gates

4.1.1 Hardware Locations

Along with the 10 gates, the Cubic order will also include the needed installation kits.

Collingswood:

- Removing two B gates: one for the new array and one for Ashland
- Removing one A gate for the new array
- New array – need to purchase:
 - One A gate
 - One C gate

Haddonfield:

- New array – Need to purchase:
 - one A gate
 - one B gate
 - one C gate
 - one TVM

Westmont:

- New array – Need to purchase:
 - one A gate
 - one B gate
 - one C gate
 - one TVM

5. SCOPE OF WORK BY WBS

5.1 PROGRAM MANAGEMENT WBS 1000

Cubic San Diego Program Management and TN Contracts Management will support this project.

5.2 ENGINEERING WBS 2000

The engineering process includes the following:

- Project engineering/supervision LOE
- Hardware setup and configuration
- Resolve action items
- Provide test support
- Provide ARQ resolution
- Provide remote support during installation and go-live launch into production

5.3 TEST WBS 3000

No software testing is needed. Hardware testing will be done in Tullahoma.

5.4 TRAINING WBS 4000

No training shall be provided for this proposal.

5.5 DOCUMENTATION WBS 5000

No documentation shall be provided for this proposal.

5.6 PRODUCTION WBS 6000

The following hardware will be procured, configured, tested (PAT), and delivered to PATCO:

- Two paid side TVMs.
- 10 gates
 - 4 "A" gates
 - 2 "B" gates
 - 4 "C" gates
- 10 standard gate installation kits
- Five wide gate installation kits
- Two TVM Installation kits

5.7 MAINTENANCE WBS 7000

None