SUMMARY STATEMENT

ITEM NO.: DRPA-18-028

SUBJECT: Design and Construction Monitoring Services for Replacement of PATCO Rectifier Transformers - Phase 3

COMMITTEE:
Operations & Maintenance

COMMITTEE MEETING DATE: March 6, 2018

BOARD ACTION DATE: March 28, 2018

PROPOSAL: That the Board authorizes staff to negotiate an agreement with Gannett Fleming Transit and Rail Systems to provide engineering design services and construction monitoring for the installation of new traction-power transformers, rectifiers, and DC switchgear at PATCO’s Birch Street and Front Street substations as well as construction monitoring for the installation of new DC switchgear and rectifiers at PATCO’s Haddonfield and Lindenwold substations.

Amount: $1,711,300.00

Consultant: Gannett Fleming Transit and Rail Systems

Other Consultants: Burns Engineering, Inc.
SYSTRA Consulting, Inc.

Engineers Estimate: $1,620,000.00

MBE/WBE Goals:
MBE: 7%
WBE: 3%

Consultant Proposed MBE/WBE Commitments:
MBE: 9%
WBE: 4%

PURPOSE: The purpose of this project is to replace aging traction-power equipment at PATCO’s Birch Street, Front Street, Haddonfield, and Lindenwold substations.

BACKGROUND: The existing traction-power transformers at Birch Street and Front Street substations as well as the DC switchgear and rectifiers at Birch Street, Front Street, Haddonfield, and Lindenwold substations date back to the construction of PATCO. The replacement of traction-
power transformers is the third phase of such replacements, following replacements at eight (8) other PATCO substations. The replacement of aging DC switchgear and rectifiers at Front Street and Birch Street substations is being included in this third phase of transformer replacements for greater efficiency in design and construction than would be possible if the replacements were done separately, given the physical details of Birch Street and Front Street substations.

Construction monitoring for the already-designed replacement of DC switchgear and rectifiers at Haddonfield and Lindenwold substations is being included in the scope of work because the expertise required is of the same nature as that for the work at Birch Street and Front Street substations and because the timing of the two (2) projects allows for both scopes to be done under a single procurement.

The scope of work includes all engineering design services to develop plans, specifications, cost estimates, and schedules with which the Authority may solicit bids for construction at Birch Street and Front Street substations. The services will also include a part-time Resident Engineer and full-time support staff for inspecting all contract field activities and monitoring the contractor’s compliance with the plans and specifications at Birch Street, Front Street, Haddonfield, and Lindenwold substations.

The Authority publicly advertised its intent to retain a consultant and invited interested firms to submit statements of qualifications. Three (3) firms responded with statements of qualifications on June 14, 2017. All three (3) firms were short-listed and were sent a formal Request for Proposal. All three (3) firms submitted technical proposals. A review committee of three (3) Engineering staff members evaluated the proposals on the basis of technical merit.

Gannett Fleming Transit and Rail Systems and their subconsultants were ranked highest on technical merit. The team presented several examples of similar type projects and experience, and their staff has great familiarity with the PATCO system and its operation. Overall, the team assembled by Gannett Fleming Transit and Rail Systems was found to possess the necessary experience and qualifications to successfully complete the project.

In accordance with the Delaware River Port Authority’s qualification
based selection procedure, the price proposal was evaluated against the engineer’s estimate and those of the other recommended firms. Based on this evaluation and subsequent negotiations, Gannett Fleming Transit and Rail Systems’ price was determined to be fair and reasonable.

It is recommended that a professional services agreement be negotiated with Gannett Fleming Transit and Rail Systems for the costs and associated fees not to exceed $1,711,300.00 to provide engineering services in accordance with the Request for Proposal.

**SUMMARY:**

- **Amount:** $1,711,300.00
- **Source of Funds:** General Fund
- **Capital Project #:** PTD.01709
- **Operating Budget:** N/A
- **Master Plan Status:** N/A
- **Other Fund Sources:** N/A
- **Duration of Contract:** Design Services, 18 months; Bidding, approximately 3 months; and Construction Monitoring, approximately 18 months
- **Other Parties Involved:** N/A
- **Estimated Number of Jobs Supported:** 7
RESOLUTION

RESOLVED: That the Board of Commissioners of the Delaware River Port Authority accepts the Proposal of Gannett Fleming Transit and Rail Systems to provide Design and Construction Monitoring Services for Replacement of PATCO Rectifier Transformers - Phase 3 and that the proper officers of the Authority be and hereby are authorized to negotiate an Agreement with Gannett Fleming Transit and Rail Systems for an amount not to exceed $1,711,300.00, as per the attached Summary Statement; and be it further

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

SUMMARY:

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<tr>
<th>Item</th>
<th>Details</th>
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<tbody>
<tr>
<td>Amount</td>
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<tr>
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MEMORANDUM

TO: O&M Committee Members
FROM: Michael P. Venuto, Director of Engineering/Chief Engineer, Engineering
SUBJECT: Professional Service Selection for Design and CM Services for Replacement of PATCO Rectifier Transformers Phase 3
Technical Proposal Evaluation, Findings and Recommendation Report
DATE: February 27, 2018

The Request for Qualifications was posted on the Authority’s website, inviting consultants to submit Statements of Qualifications (SOQs). Three (3) firms submitted SOQs on June 14, 2017.

Policy 303a outlines the procedure for Request for Proposal selection of consultants by the Engineering Department. The SOQ evaluation serves as a method for developing a “short list” of firms to receive a Request for Proposal (RFP). The Review Committee evaluated the SOQ’s and recommended soliciting Technical and sealed Price Proposals from all three (3) firms:

- Burns Engineering, Inc. (Burns)
- Gannett Fleming, Inc. (Gannett Fleming)
- SYSTRA Consulting, Inc. (SYSTRA)

The short listed firms were sent the RFP on September 1, 2017. The Technical Proposals and separate sealed Price Proposals were received on October 24, 2017 from all three (3) firms. The Review Committee, consisting of three (3) staff engineers, reviewed and evaluated the Technical Proposals.

Gannett Fleming Transit and Rail Systems and their subconsultants were ranked highest on technical merit. The team presented several examples of similar type projects and experience, and their staff has great familiarity with the PATCO system and its operation. Overall, the team assembled by Gannett Fleming Transit and Rail Systems was found to possess the necessary experience and qualifications to successfully complete the project.

The Review Committee recommended that the Price Proposal be opened and negotiations commence using other recommended firm’s Price Proposals and the Engineer’s Estimate in the amount of $1,620,000.00 as a guide. Price Proposals were opened on December 6, 2017.

The technical rankings, costs, and hours submitted are shown below, as are Gannett Fleming’s revised cost and hours following negotiations.
**Summary of Estimated Costs**

<table>
<thead>
<tr>
<th>Firm</th>
<th>Technical Ranking</th>
<th>Price Proposal Estimate</th>
<th>Total Hours</th>
<th>Negotiated Cost</th>
<th>Revised Hours</th>
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<tbody>
<tr>
<td>Burns</td>
<td>2</td>
<td>$1,741,128.00</td>
<td>11730</td>
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<td>Gannett Fleming</td>
<td>1</td>
<td>$2,228,173.39</td>
<td>16017*</td>
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<td>SYSTRA</td>
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<td>$1,613,353.00</td>
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The Engineer’s Estimate was $1,620,000.00 with 10,948 total hours.

* Gannett Fleming’s original total hours revised. Summary sheet for Meloria (WBE subconsultant) missed on original review memo (1048 total hours).

Gannett Fleming’s original proposal overestimated the number of hours that would be required for inspection services as well as travel costs during construction. The RFP called for two (2) inspectors, in case there was overlap between the two (2) separate construction projects – one (1) project for work at Birch Street and Front Street substations, and the other for work at Haddonfield and Lindenwold substations.

The intent was not for two (2) full-time inspectors for the entire duration of construction, which is expected to be eighteen (18) months for each of the two (2) construction projects. Gannett Fleming included hours and costs for two (2) full-time inspectors throughout the entire duration of construction in their original Price Proposal. Hours and costs were reduced after making clear the intent for inspection staffing during negotiations.

Following the reduction in cost, Gannett Flemings cost was within 6% of the Engineer’s Estimate.

:whq

cc: M. Venuto, J. Viniski, V. Pandya, Review Team