SUMMARY STATEMENT

ITEM NO.: DRPA-11-075  SUBJECT: Construction Monitoring Services for Contract No. 5-F, PATCO R.O.W. Embankment Restoration - Phase 4

COMMITTEE: Operations & Maintenance

COMMITTEE MEETING DATE: September 21, 2011

BOARD ACTION DATE: October 19, 2011

PROPOSAL: That the Board authorizes staff to negotiate an agreement with AECOM to provide Construction Monitoring Services for the Contract No. 5-F, PATCO R.O.W. Embankment Restoration - Phase 4 Project.

Amount: $481,621.00

Consultant: AECOM
1700 Market Street
Suite 1600
Philadelphia, PA 19103

Other Consultants: Birdsall Services Group
Gannett Fleming, Inc.

Engineers Estimate: $452,440.00

PURPOSE: To provide full-time, on-site construction inspection and monitoring services for the subject project, DRPA Contract No. 5-F. The services will include a full-time Resident Engineer and support inspection staff for inspecting all contract field activities and monitoring the contractor’s compliance with the plans and specifications.

BACKGROUND: The work to be completed under Contract 5-F consists of stabilizing embankments, repairing retaining walls, constructing sheet pile walls, restoring drainage ditches, repairing culverts, and replacing fence at several locations within the PATCO R.O.W.

The Authority publicly advertised its intent to retain a consultant and invited interested firms to submit Statements of Qualifications. The Authority publicly advertised its intent to retain a consultant and invited interested firms to submit Statements of Qualifications. Ten (10) firms responded with Statements of Qualifications on August 5, 2010. Four (4)
firms were deemed qualified and were sent a formal Request for Proposal. Three (3) firms responded with Proposals. A review committee of staff engineers evaluated the Proposals on the basis of Technical merit.

AECOM was the highest technically ranked firm. AECOM demonstrated a very good understanding of the work to be accomplished. AECOM is familiar with many of the work area locations based on prior involvement evaluating embankment conditions, and demonstrated experience on similar projects for transit and railroad agencies. The personnel assigned to the project have the qualifications and experience required for the project.

This project involves the use of federal funding through the Federal Transit Administration (FTA). In accordance with the federally approved Brooks method of consultant selection, which is qualifications based, the Price Proposal submitted by AECOM was opened and evaluated against the Engineer’s Estimate. Based on this evaluation, a negotiated price of $481,621.00 was determined to be fair and reasonable.

It is recommended that a construction monitoring services agreement be negotiated with AECOM for the costs and associated fees not to exceed $481,621.00 to provide construction monitoring services in accordance with the Request for Proposal.

**SUMMARY:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount</td>
<td>$481,621.00</td>
</tr>
<tr>
<td>Source of Funds</td>
<td>2010 Revenue Bond (Series D) 20% $96,324.20</td>
</tr>
<tr>
<td>Capital Project #</td>
<td>PF9903</td>
</tr>
<tr>
<td>Operating Budget</td>
<td>N/A</td>
</tr>
<tr>
<td>Master Plan Status</td>
<td>1999 Master Plan</td>
</tr>
<tr>
<td>Other Fund Sources</td>
<td>Federal Transit Administration 80% $385,296.80</td>
</tr>
<tr>
<td>Duration of Contract</td>
<td>365 calendar days</td>
</tr>
<tr>
<td>Other Parties Involved</td>
<td>Federal Transit Administration</td>
</tr>
<tr>
<td>Estimated Number of Jobs</td>
<td>1</td>
</tr>
</tbody>
</table>
RESOLUTION

RESOLVED: That the Board of Commissioners of the Delaware River Port Authority accepts the Proposal of AECOM to provide Construction Monitoring Services for Contract 5-F and that the proper officers of the Authority be and hereby are authorized to negotiate an Agreement with AECOM for an amount not to exceed $481,621.00 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:

Amount: $481,621.00
Source of Funds: 2010 Revenue Bond (Series D) 20% ($96,324.20)
Capital Project #: PF9903
Operating Budget: N/A
Master Plan Status: 1999 Master Plan
Other Fund Sources: Federal Transit Administration 80% ($385,296.80)
Duration of Contract: 365 calendar days
Other Parties Involved: Federal Transit Administration
Estimated Number of Jobs Supported: 1
The Request for Qualifications (RFQs), which was posted on the Authority’s web-site, invited consultants to submit Statements of Qualifications (SOQs). Ten (10) firms submitted SOQs on August 5, 2010.

Since this project is partially funded by the Federal Transit Administration the Brooks method of consultant selection was used. 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 from the top ranked firms:

AECOM
Birdsall
Gannett Fleming
Pennoni

The short listed firms were sent a RFP on February 7, 2011. The Technical Proposals were received on March 3, 2011 from three of the four short listed firms; AECOM, Birdsall, and Gannett Fleming. The Review Committee, consisting of four (4) staff engineers, reviewed and evaluated the Technical Proposals.

AECOM was the highest technically ranked firm. AECOM is familiar with many of the work area locations based on prior involvement evaluating embankment conditions, and demonstrated experience on similar projects for transit and railroad agencies including SEPTA’s Market Street Elevated reconstruction project. The personnel assigned to the project have the qualifications and experience required for the project. The proposed resident engineer, Ulysses Koutsogiannis, has 12 years railway design and construction experience. Overall, the team assembled by AECOM was found to possess the necessary experience and qualifications to successfully complete the project.
The Review Committee recommended that the Price Proposal be requested from AECOM and negotiations commence using the Engineer’s Estimate in the amount of $452,440.00, as a guide. The Price Proposal was opened on April 6, 2011.

Below are the Technical Proposal rankings, proposed hours and fees of the firm, along with the Engineer’s estimate of hours.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Firm</th>
<th>Original Price Proposal</th>
<th>Negotiated Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Engineer’s Estimate</td>
<td>2,920</td>
<td>$452,440.00</td>
</tr>
<tr>
<td>1</td>
<td>AECOM</td>
<td>4,400 (original) 3,072 (negotiated)</td>
<td>$797,400.00</td>
</tr>
</tbody>
</table>

Upon reviewing the recommended firm’s cost proposal it was determined that AECOM’s cost proposal was much higher than the Engineer’s estimate because the estimated hours to complete the work was significantly higher than the Engineer’s Estimate. AECOM estimated 4,400 man-hours and Engineer’s Estimate anticipates 2,920 man-hours.

Discussions were held with AECOM to review the scope of work. As a result, AECOM revised their cost estimate to $481,621.00, which is slightly above the Engineer’s estimate. After discussions with the Authority, AECOM believed that they had a better understanding of the anticipated effort and as a result they could provide staff with lower wage rates and reduce man-hours. AECOM’s man-hours reduced from 4,400 to 3,072.

Based on the Review Committee’s findings, the Price Proposal of $481,621.00 has been determined to be fair and reasonable and therefore the committee recommends that an Engineering Services Agreement be issued to the highest technically ranked firm, AECOM.

Based on a review of the Review Committee’s evaluation and supporting documentation, I concur with the recommendation to engage AECOM of Philadelphia, Pennsylvania, in the amount of $481,621.00 for this Agreement.