



COMMISSION AGENDA ITEM  
DOCUMENT ROUTING FORM

③ ✓ 4/15/16 ⑥

Today's Date: 04/08/2016

DOCUMENT TITLE: Task Order 13 – Professional Engineering Services for the Repair of the Northeast 1<sup>st</sup> Street Bridge – Lakdas / Yohalem Engineering, Inc. - \$39,373

COMM. MTG. DATE: 04/05/2016 CAM #: 16-0277 ITEM #: CM-10 CAM attached: ☒ YES ☐ NO

Routing Origin: CCO Router Name/Ext: LauraC/6313 Action Summary attached: ☒ YES ☐ NO

CIP FUNDED: ☐ YES ☒ NO

Capital Investment / Community Improvement Projects defined as having a life of at least 10 years and a cost of at least \$50,000 and shall mean improvements to real property (land, buildings, or fixtures) that add value and/or extend useful life, including major repairs such as roof replacement, etc. Term "Real Property" include: land, real estate, realty, or real.

1) City Clerk's Office: Granicus document attached: ☐ YES ☒ NO # of Originals routed: None  
Date to CAO: 4/8/2016 NOTE: Executed Agreements in Granicus – Does CAO have these originals?

2) City Attorney's Office: Documents to be signed/routed? ☒ YES ☐ NO # of originals attached: \_\_\_\_\_

Is attached Granicus document Final? ☒ YES ☐ NO Approved as to Form: ☐ YES ☐ NO

Date to CCO: 4/12/16  
Rhonda Montoya-HASAN Attorney's Name Initials

~~3) City Clerk's Office: # of originals: \_\_\_\_\_ Routed to: Name/Dept/Ext: \_\_\_\_\_ Date: \_\_\_\_\_~~

~~4) Dept: \_\_\_\_\_ Router Name/Ext: \_\_\_\_\_ # of originals routed: \_\_\_\_\_ Date to CCO: \_\_\_\_\_~~

5) City Clerk's Office: # of originals: 3 Routed to: Gina Ri/CMO/X5013 Date: 4/14/16

6) City Manager's Office: CMO LOG #: Apr - 39 Document received from: \_\_\_\_\_

Assigned to: L. FELDMAN ☐ S. HAWTHORNE ☐ C. LAGERBLOOM ☒  
L. FELDMAN as CRA Executive Director ☐

☐ APPROVED FOR LEE FELDMAN'S SIGNATURE ☐ N/A FOR L. FELDMAN TO SIGN

PER ACM: S. HAWTHORNE \_\_\_\_\_ (Initial/Date) C. LAGERBLOOM \_\_\_\_\_  
(Initial/Date) ☐ PENDING APPROVAL (See comments below)

Comments/Questions: \_\_\_\_\_

Forward 3 originals to ☐ Mayor ☒ CCO

~~7) Mayor/CRA Chairman: Please sign as indicated. Forward \_\_\_\_\_ originals to CCO for attestation/City seal (as applicable)~~

8) City Clerk's Office: Retains 1 original and forwards 2 original(s) to: Shagvella Holmes/Pw/  
(Name/Dept/Ext) x5197  
Return one fully executed original to CCO ☐ YES ☒ NO Attach \_\_\_\_\_ certified Reso # \_\_\_\_\_ ☐ YES ☒ NO  
Original Route form to CCO



**TASK ORDER No. 13**

**Dated this 5<sup>th</sup> day of April , 2016**

**FORT LAUDERDALE PUBLIC WORKS DEPARTMENT**

**NE 1<sup>ST</sup> ST BRIDGE REPAIR**

**PROFESSIONAL SERVICES**

This Task Order between the CITY of Fort Lauderdale, a Florida municipal corporation ("CITY") and Lakdas/Yohalem Engineering, Inc., a Florida Corporation ("CONSULTANT") is pursuant to the Structural Engineering Consulting Services Agreement dated August 18, 2014 and expiring on August 18, 2016 ("MASTER AGREEMENT").

**PROJECT BACKGROUND**

The bridge on NE 1<sup>st</sup> St over the Stranahan Lake (Bridge No. 865727) is a 44 ft. long, two span, steel multi-girder beam bridge constructed in 1940. On May 7, 2014, TranSystems inspected the bridge as part of the project Structural Bridge Engineering Consulting Services Master Plan, RFQ No. 946-11310. TranSystems found deficiencies in the structural elements but recommended no short term repairs. Instead, TranSystems recommended that the bridge be programmed for replacement in 11-15 years.

FDOT's bridge inspection consultant inspected the bridge as part of its consultant contracts to inspect local government bridges. On October 2, 2014, the Florida Department of Transportation (FDOT) issued a letter to the City indicating several deficiencies were found. The National Bridge Inspection (NBI) rating for Item 59 Superstructure was lowered from a 5 (Fair) to a 4 (Poor) and the bridge is considered Structurally Deficient.

It is the CITY's intent to address short term repairs on this bridge to reestablish a Fair rating. The CONSULTANT services shall include design services, bid services, and post-design services. The CONSULTANT is responsible for working in cooperation with officials of the CITY, or its designees, and with the CITY'S project managers in administering the design and construction of this project. The CONSULTANT will be responsible for the preparation of all design and construction documents and will coordinate all required permit applications.

**GENERAL REQUIREMENTS**

**Design Standards**

The CONSULTANT shall be solely responsible for determining the standards the work shall meet and obtain all the requisite regulatory approvals. The design shall include, but is not limited to, the plans and specifications which describe all systems, elements, details, components, material, equipment, and other information necessary for construction. The design shall be accurate, coordinated and in all respects adequate for construction and shall be in conformity, and comply, with all applicable law, codes, permits and regulations.

## **Quality Control**

The CONSULTANT is solely responsible for quality control of the work. The Consultant shall provide a list of sub-consultants for the project, which will not be changed without the approval of the CITY.

## **Project Design Schedule**

The CONSULTANT shall develop a design schedule with the CITY's Project Manager within 10 business days after the Notice-to-Proceed and prior to the CONSULTANT beginning work. The design schedule shall include at a minimum the milestone dates for the various design activities and submittals, design review timeframes, and permitting. The schedule shall be prepared in Microsoft Project. The CONSULTANT shall submit updated project schedules as indicated in the specific scope of services.

## **Coordination and Permits**

The CONSULTANT shall conduct all the necessary coordination with various CITY departments and other regulatory agencies that have an interest, jurisdiction over and may require permits for this project. During the cost estimation preparation, the CONSULTANT shall provide an estimated for approvals/permits from all CITY and non-CITY departments/agencies, having an interest or jurisdiction over this project.

## **SPECIFIC SCOPE OF SERVICES**

The Scope of Services to be provided by CONSULTANT shall be as follows:

### **Task 13.1 - Bridge Structural Condition Survey and Report**

- The CONSULTANT shall review the findings of the Bridge Inspection Report provided by the CITY.
- The CONSULTANT shall supplement the Bridge Inspection Report by conducting an on-site condition survey of deteriorated bridge elements.
- The CONSULTANT shall review the bridge deficiencies as noted in FDOT's letter to the CITY dated October 2, 2014.
- The CONSULTANT shall identify key constructability issues.
- The CONSULTANT shall identify bridge-mounted utilities and coordinate with utility owners to address temporary support or relocation of the utilities.
- The CONSULTANT shall prepare a summary of findings and meet with the CITY to discuss the findings and potential repair strategies. The CONSULTANT shall prepare the agenda and submit meeting minutes.

## **Deliverables**

The following deliverables shall be provided under this Task:

- One (2) copies of summary of inspection findings and repair approach.
- One (1) copy of the meeting minutes.

### **Task 13.2 – Bridge Analysis and Repair Design (90% Submittal)**

- The CONSULTANT shall incorporate the findings from Task 13.1 and agreed upon repair approach in the repair design.
- The CONSULTANT shall perform a structural evaluation, analysis, and provide recommendations for structural strengthening and remediation with special emphasis on the superstructure deficiencies.
- The CONSULTANT shall prepare repair design drawings and specifications to include the units of material to be incorporated into the proposed repair.
- The CONSULTANT shall submit the 90% plans submittal for CITY review. The design drawings shall be submitted in 11" x 17" plan sheets.
- The CITY shall provide review comments to the CONSULTANT within 10 days of receiving the submittal.
- The CONSULTANT shall attend a meeting with the CITY to review the 90% design comments. The CONSULTANT shall incorporate the review comments into the final contract documents. The CONSULTANT shall prepare the agenda and submit meeting minutes within five (5) days.
- The CONSULTANT shall obtain all applicable regulatory permits from agencies having an interest or jurisdiction over this project.
- The CONSULTANT shall prepare a construction cost estimate based on the final design.

#### **Deliverables**

The following deliverables shall be provided under this Task:

- Two (2) copies of the 90% design drawings and specifications.
- Two (2) copies of the design calculations.
- Two (2) copies of the design data.
- One (1) copy of the 90% design review meeting minutes.
- One (1) copy of the Construction Cost Estimate including units and unit pricing.
- One (1) Original and one (1) copy of all environmental permits required to complete the work

Project deliverables shall include DWG, PDF, WORD, and Excel files as required. The drawings need to comply with CITY CAD Standards.

### **Task 13.3 – Final Contract Plans and Specifications (100% and Final Submittal)**

- Once all changes are made based on the outcome of environmental permitting and 90% review meeting, or if no changes or corrections are necessary after CITY review, the CONSULTANT shall submit the 100% Plans and Specifications, and supporting documentation to the CITY.
- The final plans shall include, but not limited to:
  - ✓ Key sheet
  - ✓ General notes
  - ✓ Drawing index
  - ✓ Structural repair details
  - ✓ Material and construction specifications
  - ✓ Maintenance of traffic (MOT)
  - ✓ Utility plans
  - ✓ Proposed bid tabulation with unit description and number of units

- The CONSULTANT shall submit the 100% plans submittal for CITY review. The CITY shall provide the CONSULTANT any review comments within seven (7) days of receiving the submittal.
- The CONSULTANT shall incorporate the review comments into the final plans documents.
- Once all changes are made, or if no changes or corrections are necessary after CITY review of the 100% submittal, the CONSULTANT shall submit the Final Plans and Specifications, and supporting document to the CITY.
- The CONSULTANT shall provide two (2) original signed and sealed sets of the Final Design Package (24" x 36" plan sheets), together with an electronic copy on a CD.
- The CONSULTANT shall prepare a final construction cost estimate based on the final design.

### **Deliverables**

The following deliverables shall be provided under this Task:

- Two (2) copies of the 100% design drawings and specifications.
- Two (2) copies of the sealed design data and calculations.
- One (1) copy of the 100% design review meeting minutes.
- One (1) copy of the Final Construction Cost Estimate.
- Two (2) copies of the signed and sealed Final Contract Documents, including drawings (24" x 36" plan sheets) and specifications, plus one (1) CD.
- One (1) copy of all completed and sealed permit applications associated with the project.

Project deliverables shall include DWG, PDF, WORD, and Excel files as required. The drawings need to comply with CITY CAD Standards.

**Task 13.4 - Bidding Services** - CONSULTANT shall provide services during the bidding phase.

- Review bids
- Respond to bid questions
- Issuing the clarification or drawings/addendums as needed
- Participate in pre-bid conference.

**Task 13.5 – Construction Phase Services** - CONSULTANT shall provide services during the construction phase as may be deemed necessary by the CITY.

- The CONSULTANT shall review all shop drawings and submittals within 10 business days of receipt of the item to determine compliance with the drawings and specifications. Assume 10 shop drawings packages.
- The CONSULTANT shall provide a written response to all requests for information (RFIs) within seven (7) business days. Assume 20 RFI's.
- The CONSULTANT shall review contractor's request for changes and claims and forward recommendations, schedule and cost evaluations to the CITY.
- The CONSULTANT shall make periodic site visits for the purpose of determining general compliance with the approved project drawings, plans, and specifications.
- The CONSULTANT shall attend periodic on-site project meetings, Assume six (6).
- The CONSULTANT shall review as-built drawings provided by the contractor and provide written comments to the CITY.

Project deliverables shall include DWG, PDF, WORD, and Excel files as required. The drawings need to comply with CITY CAD Standards.

### **PROJECT ASSUMPTIONS**

- No bridge or lane closures anticipated during CONSULTANT site visits and inspections.
- CITY shall provide any existing electronic CAD files. CITY cannot be responsible for accuracy of files.

### **ADDITIONAL SERVICES**

If authorized in writing by the CITY as an amendment to this Task Order, the CONSULTANT shall furnish, or obtain, Additional Services of the types listed in the Master Agreement. The CITY, as indicated in the Master Agreement will pay for these services.

### **PERFORMANCE SCHEDULE**

The CONSULTANT shall perform the services identified in Tasks 13.1 - 13.3 within 150 calendar days starting from one (1) week of Notice-to-Proceed. Task 13.4 and 13.5 schedules shall be determined based on the bid dates and construction award period. The CONSULTANT shall provide a schedule for all design deliverables and milestone. The CONSULTANT shall prepare design schedule in Microsoft Project form.

### **PROJECT FUNDING**

Performance of this project is at the CITY's discretion and may be contingent upon the CITY receiving funding and work shall not begin until the CITY provides a Notice to Proceed to Consultant.

### **METHOD OF COMPENSATION**

The services performed will be accomplished using the Not-to-Exceed method of compensation. The total hourly rates payable by the CITY for each of CONSULTANT's employee categories, reimbursable expenses, if any, and sub-consultant fees, if any, are shown on Exhibit A attached hereto and made a part hereof. Pay applications shall be detailed and submitted monthly.

### **TERMS OF COMPENSATION**

Services will be provided for the following Not-to-Exceed amounts:

Task 13.1 – Bridge Structural Condition Survey and Report	\$16,437.50
Task 13.2 – Bridge Analysis & Repair Design (90%)	\$11,580.00
Task 13.3 – Final Plans & Specifications (100%/Final)	\$4,835.00
Task 13.4 – Bidding Services	\$662.50
Task 13.5 – Construction Phase Services	\$5,458.00
Permit Allowance	\$0.00
Expenses (Reimbursable)	\$400.00
<b>Grand Total</b>	<b>\$39,373.00</b>

### **CITY CONTACTS**

Requests for payments should be directed to CITY of Fort Lauderdale Accounts Payable via e-mail to [AcctsPayable@FortLauderdale.gov](mailto:AcctsPayable@FortLauderdale.gov) after approval from the CITY's Project Manager. All other correspondence and submittals should be directed to the attention of Raymond Nazaire, Project Manager II, at the address shown below. **Please be sure that all correspondence refers to the CITY project number and title as stated above.**

Raymond Nazaire, P.E., CGC  
Project Manager II  
Public Works  
City of Fort Lauderdale  
City Hall, 4<sup>th</sup> Floor Engineering  
100 North Andrews Avenue  
Fort Lauderdale, FL 33301  
(954) 828-8954  
[rnazaire@forlauderdale.gov](mailto:rnazaire@forlauderdale.gov)

Carlos Acosta, P.E., PMP  
Senior Project Manager  
Public Works  
City of Fort Lauderdale  
City Hall, 4<sup>th</sup> Floor Engineering  
100 North Andrews Avenue  
Fort Lauderdale, FL 33301  
(954) 828-6185  
[cacosta@fortlauderdale.gov](mailto:cacosta@fortlauderdale.gov)

### **CONSULTANT CONTACTS**

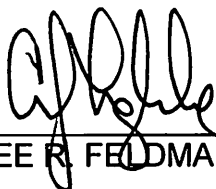

Lakdas Nanayakkara, P.E. C Eng., G.C.  
Lakdas/Yohalem Engineering, Inc.  
2211 NE 54<sup>th</sup> Street  
Fort Lauderdale, FL 33308  
Email: [lye@lyengineering.com](mailto:lye@lyengineering.com)  
Phone: 954-771-0630  
Fax: 954-771-0519



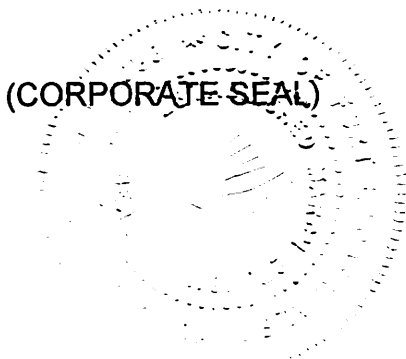
CITY

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first above written.


CITY OF FORT LAUDERDALE, a municipal corporation of the State of Florida:

By    
LEE R. FELDMAN, City Manager


(CORPORATE SEAL)



ATTEST:

  
JEFFREY A. MODARELLI, City Clerk

Approved as to Legal Form:

  
RHONDA M. HASAN  
Assistant City Attorney

Handwritten signature or initials, possibly "J. J. J."



CONSULTANT

## WITNESSES

Lakdas/Yohalem Engineering, Inc., a  
Florida corporation authorized to  
transact business in Florida.

Luan Nguyen  
LUAN NGUYEN  
Print Name

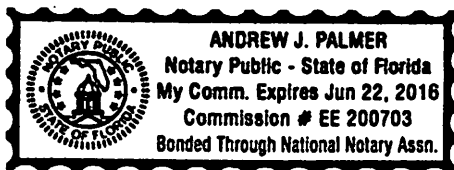
By [Signature]  
Name: Lakdas Nanayakkara  
Position: President

[Signature]  
SERGIO QUADROS  
Print Name

STATE OF FLORIDA:  
COUNTY OF BROWARD:

The foregoing instrument was acknowledged before me this 11<sup>th</sup> day of FEBRUARY, 2016 by Lakdas Nanayakkara as President of Lakdas/Yohalem Engineering, Inc., a Florida corporation authorized to transact business in the State of Florida.

(SEAL)

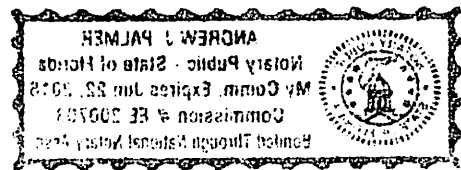


[Signature]  
Notary Public, State of Florida  
(Signature of Notary taking Acknowledgment)

Andrew J. Palmer  
Name of Notary Typed, Printed or Stamped

Personally known or Produced identification \_\_\_\_\_

Type of Identification \_\_\_\_\_



**Exhibit A – Work Break Down Fee Schedule**

**A. Fee Schedule – Structural Condition Survey and Report**

Fee Schedule								Total Hour s	Labor Cost (\$)
Labor Category		Labor Category I – Principal		Labor Category II – Project Manager		Labor Category III – Project Engineer			
Percent Utilization		%		%		%			
Labor Rate		\$198.75/hr		\$132.50/hr		\$117.00/hr			
Task No	Task Title	Hour	Subtotal (\$)	Hours	Subtotal (\$)	Hours	Subtotal (\$)		
13.1	Bridge Structural Condition Survey and Report	10	\$ 1,987.50	40	\$ 5,300.00	70	\$ 8,190.00	120	\$ 15,477.50
Totals		10	\$ 1,987.50	40	\$ 5,300.00	70	\$ 8,190.00	120	\$ 15,477.50

**B. Sub-Consultant – Diversified Diving Services**

Fee Schedule								Total Hours	Labor Cost (\$)
Labor Category		Labor Category I		Labor Category II		Labor Category III			
Percent Utilization		%		%		%			
Labor Rate		\$160/hr		\$/hr		\$/hr			
Task No	Task Title	Hours	Subtotal (\$)	Hours	Subtotal (\$)	Hours	Subtotal (\$)		
13.1	Underwater Survey	6	\$ 960.00					6	\$ 960.00
Totals		6	\$ 960.00					6	\$ 960.00

**C. Reimbursables (in accordance with Master Agreement)**

<b>Task No</b>	<b>Task Title</b>	<b>Reimbursable Description</b>	<b>Cost (\$)</b>
13.1	Cost	Printing	\$ 100.00
<b>Reimbursables Subtotal</b>			<b>\$ 100.00</b>

**Structural Condition Survey and Report Task Total  
(with Reimbursable) : \$ 16,537.50**

**B. Fee Schedule – Design, Bidding and Construction Phase Services**

Fee Schedule								Total Hour s	Labor Cost (\$)
Labor Category		Labor Category I – Principal		Labor Category II – Project Manager		Labor Category III – Project Engineer			
Percent Utilization		%		%		%			
Labor Rate		\$198.75/hr		\$132.50/hr		\$117.00/hr			
Task No	Task Title	Hour	Subtotal (\$)	Hours	Subtotal (\$)	Hours	Subtotal (\$)		
13.2	Bridge Analysis and Repair Design (90% Submittal)	4	\$795.00	24	\$ 3,180.00	65	\$7605.00	93	\$ 11,580.00
13.3	Final Contract Plans and Specifications (100% Submittal)			10	\$ 1,325.00	30	\$ 3,510.00	40	\$ 4,835.00
13.4	Bidding Services			5	\$ 662.50			5	\$ 662.50
13.5	Construction Phase Services	8	\$ 1,590.00	8	\$ 1,060.00	24	\$ 2,808.00	40	\$ 5,458.00
Total		12	\$ 2,385.00	47	\$ 6,227.50	119	\$ 13,923.00	178	\$ 22,535.50

**C. Reimbursables (in accordance with Master Agreement)**

<b>Task No</b>	<b>Task Title</b>	<b>Reimbursable Description</b>	<b>Cost (\$)</b>
13.3	Cost	Printing	\$300.00
<b>Reimbursables Subtotal</b>			<b>\$ 300.00</b>

**Design, Bidding and Construction Phase Services Task Total  
(with Reimbursable): \$ 22,835.50**

**Exhibit B – Location Map**





**LAKDAS / YOHALEM ENGINEERING, INC.**  
Consulting Engineers EB 0005458

Lakdas Nanayakkara, P.E.  
C Eng., M.I. Str. E.

December 8, 2015

Mr. Paul Berg, ICMA - CM  
Public Works Director  
Public Works Department  
City of Fort Lauderdale  
100 N. Andrews Ave  
Fort Lauderdale, FL 33301

**Re: Request for Sub-Consultant Authorization  
Repair of NE 1<sup>st</sup> Street Bridge # 865727  
RFQ #946-11310  
LYE Project # 156912 Task Order 12**

Please let this letter serve as a formal request from Lakdas/Yohalem Engineering, Inc. (CONSULTANT) to utilize the following Sub-Consultants for Task Order No.12, Repair of NE 1<sup>st</sup> Street Bridge # 865727:

Diversified Diving Service, Inc.

In the amount of:  
\$960.00

The primary Scope of Work for which the above Sub-Consultant shall be utilized is for Underwater Survey. The above mentioned Sub-Consultant shall abide by the terms for Sub-Consultant in the "Master Agreement" for Structural Engineering Consulting Services between CONSULTANT and the City of Fort Lauderdale dated August 19<sup>th</sup>, 2014.

Please indicate authorization for use of the Sub-Consultant services on this project by signing below and returning a copy to the CONSULTANT.

Sincerely,

Lakdas Nanayakkara, P.E.  
#37590

Acceptance of Request:

By: Paul G. Berg Acting Director

Mr. Paul Berg, ICMA - CM  
Public Works Director

Date: 12-10-15