



# ROUTING FORM FOR TASK ORDERS – CITY MANAGER’S APPROVAL

2-17-15  
CM-8  
15-0030

Project/Contract Number: Project Number 12058 CMO Log #: \_\_\_\_\_  
Document Title: Feasibility Study of Tunnel Top Plaza at the Henry E. Kinney Tunnel Attached: \_\_\_\_\_  
Department: Public Works - Engineering ☒ 1 original  
Corresponding CAM #: 15-0030  
Commission Date: February 17, 2015

This project pertains to the feasibility study of Tunnel Top Plaza at the Henry E. Kinney Tunnel. This project was approved by City Commission on February 17, 2015. It is being routed for final execution.

## FUNDING INFORMATION

CIP Funded Project: Yes ☒ No ☐  
Amount Required by Task Order: \$33,506.50  
Index/Sub Object Code: P12058.350 - 6534  
Engineering Finance Approval Sign: *K. H. H. 3/31/15*

## APPROVAL ROUTING –PUBLIC WORKS

	Approved:	Disapproved:	Signature/Initials
Raymond Nazaire, P.E. Project Manager	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>R.N.</i>
Annalise Mannix, P.E. Senior Project Manager	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Annalise Mannix 3/31/15</i>
Pedram Zohrevand, Ph.D., P.E., Assistant City Engineer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Pedram Zohrevand 3/31/15</i>
Hardeep Anand, P.E., Public Works Director	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Hardeep Anand 3/31/15</i>

## APPROVAL ROUTING –FINANCE DEPARTMENT

	Recommend Approval:	Disapproved:	Signature/Initials
Kirk W. Buffington, C.P.M., Finance Director	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Kirk W. Buffington 4/14/15</i>

## APPROVAL ROUTING – CITY ATTORNEY’S OFFICE

	Approved as to form:	Disapproved:	Signature/Initials
City Attorney	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>City Attorney 4.7.15</i>

## APPROVAL ROUTING – CITY MANAGER’S OFFICE

	Approved:	Disapproved:	Signature/Initials
Lee R. Feldman, ICMA-CM, City Manager	<input type="checkbox"/>	<input type="checkbox"/>	

**CITY CLERK’S OFFICE** Upon approval by the City Manager, please route this form along with Task Order to PW- Engineering, Kian Movafaghi (Ext. 7818).

4/14

**TASK ORDER No. 1**

Dated this 12 day of February, 2015

**CITY PROJECT No. 12058**

**FORT LAUDERDALE PUBLIC WORKS DEPARTMENT**

**FEASIBILITY STUDY OF TUNNEL TOP PLAZA AT THE**

**HENRY E. KINNEY TUNNEL**

**PROFESSIONAL SERVICES**

This task order is pursuant to the agreement between the City of Fort Lauderdale, a Florida Municipality, (CITY) and Lakdas/Yohalem Engineering, Inc. (CONSULTANT) in accordance with the terms of the agreement for professional services dated August 19, 2014 between CITY and CONSULTANT ("MASTER AGREEMENT") and approved by City Commission on August 19, 2014. The contract between the City and the consultant will expire on August 19, 2016.

**PROJECT BACKGROUND**

Project is generally described as follows: feasibility study of constructing a plaza above the E. Kinney Tunnel. The scope of the study also includes improvements to the traffic intersection at Las Olas Boulevard and Federal Highway. This would improve pedestrian safety through a reduction of pedestrian/vehicle conflicts. The project has the potential to incorporate sustainability components and be an iconic attraction. After the feasibility study a State Historic Preservation Office approval of the project site should be acquired.

The scope of the feasibility study also includes the modification of the tunnel north side to incorporate the proposed plaza, the work required to do so and the estimated cost.

**PROJECT DESCRIPTION**

This project is to provide a feasibility study for the construction of a pedestrian friendly plaza as well as the improvement of the intersection of Las Olas Boulevard and Federal Highway over the E. Kinney Tunnel.

The ultimate goal of this project is to design and construct a tunnel top plaza that would include a pedestrian walkway and improvements to the traffic intersection at the Kinney Tunnel. This will improve pedestrian safety through a reduction of pedestrian/vehicle conflicts.

The following tasks to be performed by the consultant are as follows:

- A) Structural Engineering (minimum of possibly two structural framing systems to support new open air seating and pedestrian crosswalk over the tunnel).
- B) Study of the surface water drainage system at Las Olas Blvd. level and at US1 tunnel road.
- C) Study of the existing utilities for the proposed area of expansion of the deck and the ramp roads on both east and west sides.
- D) Study of the roadway on east and west side of the tunnel up to convergence to US1 on North and South bound traffic.

**TASK ORDER No. 1**

~~Dated this 30 day of Apr, 2015~~

**CITY PROJECT No. 12058**

**FORT LAUDERDALE PUBLIC WORKS DEPARTMENT  
FEASIBILITY STUDY OF TUNNEL TOP PLAZA AT THE  
HENRY E. KINNEY TUNNEL**

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- D) Study of the roadway on east and west side of the tunnel up to convergence to US1 on North and South bound traffic.

*Lakda  
3-30-15*

- E) Evaluation of the geotechnical condition for possible use of existing retaining walls to support the new deck.
- F) Design the plaza with adequate vertical clearance at the north of the tunnel as not to impede vehicular traffic.
- G) Design for effect of sea level rise of 9 inches.

### **SCOPE OF SERVICES AND DELIVERABLES**

This task order will cover the services of Structural Engineering required to complete the Engineering Feasibility Study of north deck extension on the Henry E. Kinney Tunnel.

THE CONSULTANT is responsible for all work of their sub consultants/subcontractors to meet the deliverables included on this task order.

CONSULTANT shall provide all Engineering services described on the tasks below:

#### **Task No.1 Feasibility Study of Tunnel Top Plaza at The Henry E. Kinney Tunnel**

This task consists of

1. Structural Engineering (minimum of two structural framing systems to support new open air seating and pedestrian crosswalk over the tunnel).
2. Study of the surface water drainage system at Las Olas Blvd. level and at US1 tunnel road.
3. Study of the existing utilities for the proposed area of expansion of the deck and the ramp roads on both east and west sides.
4. Study of the roadway on east and west side of the tunnel up to convergence to US1 on North and South bound traffic.
5. Evaluation of the geotechnical condition for possible use of existing retaining walls to support the new deck.
6. Preliminary option of cost.
7. Sub-consultant to Yohalem Lakdas will perform all geotechnical study under this task order.

#### **Deliverables**

CONSULTANT shall provide the following for CITY review and written acceptance:

1. Memo describing the review of existing Construction documents of the tunnel and all relevant affected elements such as:
  - Structural System
  - Roadway Structural System and Clearances
  - Structural System of Sanitary
  - Structural System of Water Supply
  - Structural System of Surface Water Draining
2. Memo describing the on site evaluation of the existing condition of the reference elements and items of each discipline.
3. A written analysis of the findings.
4. A finite element analysis to be performed on the following elements
  - Existing tunnel walls due to load from the proposed deck extension

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3-30-15

- Soil deflection/settlement behind the existing tunnel wall due to the proposed plaza deck extension as well as the foundation reaction and possible settlement due to new load on the wall and load on the mat foundation at the median
5. Compile a report with findings, cost estimates and recommendations.

#### **PROJECT ASSUMPTIONS**

Specific assumptions for the project:

- ☒ References to be used (USGS, County, SFWMD, FDEP, FDOT, etc.)
- ☒ CONSULTANT shall coordinate with City and send all deliverables of this task order to CITY.
- ☒ As-builts are accurate.
- ☒ Vertical datum to be used for design is NAVD88.
- ☒ CONSULTANT to convert NGVD datum to NAVD datum for design.

#### **CITY'S RESPONSIBILITIES**

Include any data or assistance to be provided by the City:

- ☒ The City's project manager, or a designated representative, will coordinate the project for the CITY.
- ☒ The City's project manager, or a designated representative, will coordinate all necessary meetings and meeting attendance.
- ☒ Consultant to obtain FDOT As-built drawings.
- ☒ The City's project manager, or a designated representative, will timely review all submittals from the consultant.

#### **PERFORMANCE SCHEDULE**

The CONSULTANT shall perform the services identified in Task 1 within 55 working days of written Notice to Proceed.

#### **METHOD OF COMPENSATION**

The services performed shall be accomplished using the Not to Exceed method of compensation. Reimbursable expenses associated with these services are not included in the fees and will be itemized separately, subject to an established Not to Exceed limit. A cost breakdown for reimbursable expenditures is included on Exhibit A.

Hourly work and expenditures shall be submitted monthly.

*Latent*  
*9.30.15*

### TERMS OF COMPENSATION

Services shall be provided for the following Not to Exceed amounts:

Task No	Task Title	Labor Fees		Total
		Consultant	Sub consultant	
1	Structural System	\$12,420.00	\$	\$12,420.00
2	Roadway Structural System	\$3,036.00	\$	\$3,036.00
3	Sanitary Structural System	\$3,036.00	\$	\$3,036.00
4	Water Structural System	\$1,656.00	\$	\$1,656.00
5	Surface Water Drainage Structural System	\$3,036.00	\$	\$3,036.00
6	Geo-Technical Evaluation	\$	\$7,062.50	\$7,062.50
7	Project Management	\$2,760.00		\$2,760.00
All tasks				\$ 33,006.50
Task No	Description	Reimbursables		Total
		Consultant	Sub consultant	
1	Printing	\$500.00	\$	\$500.00
2		\$	\$	\$
All reimbursables				\$ 500.00
Task No	Description	Other Cost		Total
		Consultant	Sub consultant	
1		\$	\$	\$
2		\$	\$	\$
All other costs				\$ 0
<b>TOTAL</b>				<b>\$33,506.50</b>

The total number of hours for the project is (244.5) for CONSULTANT.

*Checked  
3-30-15*

### CITY CONTACTS

Requests for payments should be directed to City of Fort Lauderdale Accounts Payable via e-mail to [AcctsPayble@FortLauderdale.gov](mailto:AcctsPayble@FortLauderdale.gov). All other correspondence and submittals should be directed to the attention of Raymond Nazaire at the address shown below. **Please be sure that all correspondence refers to the City project number and title as stated above.**

City of Fort Lauderdale  
City Hall, 4th Floor – Engineering  
100 North Andrews Avenue  
Fort Lauderdale, FL 33301  
Email: [rnazaire@fortlauderdale.gov](mailto:rnazaire@fortlauderdale.gov)  
Phone: 954-828-8954  
Fax: 954-828-5074

### CONSULTANT CONTACTS

CONSULTANT:  
Lakdas/Yohalem Engineering, Inc.  
Project Manager Name: Lakdas Nanayakkara, P.E., C Eng., G.C.  
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

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*Carlson*  
3-30-13

**Department Signatures**

Approved by:



Raymond Nazaire, P.E.  
Project Manager

Date 3/31/2015

Approved by:

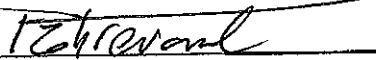


Annalise Mannix, P.E.  
Senior Project Manager

3/31/15

Date

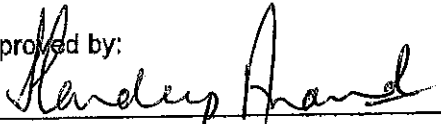
Approved by:



Pedram Zohrevand, Ph.D., P.E.  
Division Manager

Date:

Approved by:



for Talal Abi-Karam, P.E.  
Deputy Public Works Director – Engineering

Date

Approved by:



Hardeep Anand, P.E.  
Public Works Director

Date

*Calder*  
3-30-15

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:

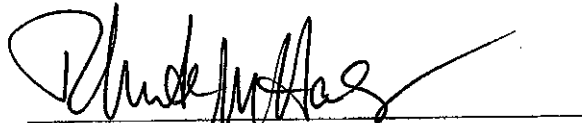
By   
LEE R. FELDMAN, City Manager

(CORPORATE SEAL)

ATTEST:

  
JONDA K. JOSEPH, City Clerk

Approved as to Legal Form:

  
Rhonda Montoya Hasan  
Assistant City Attorney

CONSULTANT

WITNESSES:

LAKDAS/YOHALEM ENGINEERING, INC., a Florida corporation.

Luan Nguyen

By [Signature]  
Lakdas Nanayakkara, President

LUAN NGUYEN  
Print Name

[Signature]

SERGIO BARBEREJA  
Print Name

ATTEST:  
BY: [Signature]  
Lakdas Nanayakkara  
Print Name of Corporate Secretary

(CORPORATE SEAL)

STATE OF FLORIDA:  
COUNTY OF BROWARD: :

The foregoing instrument was acknowledged before me this 30<sup>th</sup> day of March, 2015, by Lakdas Nanayakkara as President of Lakdas/Yohalem Engineering, Inc., a Florida corporation, on behalf of the corporation.

SEAL

Renee Ginat  
Notary Public, State of Florida

Renee Ginat  
Name of Notary Typed, Printed or Stamped



☒ Personally Known or ☐ Produced Identification: Type Produced \_\_\_\_\_

**TASK ORDER**

**EXHIBIT A**

**FEE SCHEDULE, REIMBURSABLES AND OTHER COSTS**

*Calder  
3-30-15*

**A. Task order Exhibit A Fee Schedule**

**Consultant**

Labor Category		Labor Category I - Senior Engineer	
Percent Utilization		78.6%	
Labor Rate		\$138.00/hr	
Task No	Task Title	Hour	Subtotal (\$)
1	Structural System	90	\$12,420.00
2	Roadway Structural System	22	\$3,036.00
3	Sanitary Structural System	22	\$3,036.00
4	Water Structural System	12	\$1,656.00
5	Surface Water Draining Structural System	22	\$3,036.00
6	Project Management	20	\$2,760.00
Totals		188	\$25,944.00

**Sub-Consultant**

Labor Category		Labor Category I	
Percent Utilization		21.4%	
Labor Rate		\$125.00/hr	
Task No	Task Title	Hours	Subtotal (\$)
1	Geo-Technical Evaluation	56.5	\$7,062.50
Totals		56.5	\$7,062.50

**B. Reimbursables (In accordance with Master Agreement)**

Task No	Task Title	Reimbursable Description	Cost (\$)
1	Printing		500.00
Reimbursables Subtotal			\$500.00

**C. Other Costs (In accordance with Master Agreement)**

Task No	Task Description	Reimbursable Description	Cost (\$)
Other Costs Subtotal			\$

*Added  
3-30-15*