

**DOCUMENT ROUTING FORM**

③ ✓ 3/5/14 (L)

**NAME OF DOCUMENT: T.Y. LIN TASK ORDER #4 FOR POWERLINE ROAD LANE REDUCTION APPLICATION TO FDOT - \$45,288**

Approved Comm. Mtg. on **FEBRUARY 18, 2014** CAM# **14-0009** ITEM: **M-8**

Routing Origin:  CAO Also attached: copy of CAR  copy of document

On 2/19/14, Linda B. forwarded to: **DENISE DIPALO, TRANSP/MOBILITY**

1.) Approved as to Content: *[Signature]*  
Department Director 2-19-14

Capital Improvements 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, fixtures) that add value and/or extend useful life, inc. major repairs such as roof replacement, etc. Term "Real Property" include: land, real estate, realty, real.

Please Check the proper box: CIP FUNDED  YES  NO  
Capital Improvement Projects

2.) Approved as to Funds Available: by *[Signature]* Date: 2/21/14  
Finance Director

**Please see attached CAM #14-0009 for Funding Info.**

Amount Required by Contract/Agreement \$ 45,288.00 Funding Source: \_\_\_\_\_

Dept./Div. \_\_\_\_\_ Index/Sub-object \_\_\_\_\_ Project # \_\_\_\_\_

3.) City Attorney's Office: Approved as to Form:# 3 Originals to City Mgr. By: COLE COPERTINO

**Cole J. Copertino** *[Signature]*

2014 FEB 24 PM 10: 27  
CITY ATTORNEY'S OFFICE

4.) Approved as to content: Assistant City Manager:

By: \_\_\_\_\_ By: \_\_\_\_\_  
Stanley Hawthorne, Assistant City Manager Susanne Toriente, Assistant City Manager

5.) City Manager: Please sign as indicated and forward 3 originals to Clerk.

6.) To City Clerk for attestation and City seal.

**INSTRUCTIONS TO CLERK'S OFFICE**

7.) City Clerk: retains one original document and forwards 2 original documents to:

**DENISE DIPALO, TRANSP/MOBILITY, X5822**

Original Route form to Linda Blanco, CAO

2014 MAR -3 PM 4: 06  
CITY MANAGER

3/4

**TASK ORDER No. 4**

Dated this 18<sup>th</sup> day of February, 2014

**FORT LAUDERDALE TRANSPORTATION & MOBILITY DEPARTMENT**

**POWERLINE ROAD LANE ELIMINATION REVIEW AND APPROVAL PROCESS**

**PROFESSIONAL SERVICES**

Describing a specific agreement between the City of Fort Lauderdale (CITY) and T.Y. Lin International (CONSULTANT) in accordance with terms of the agreement for Professional Traffic and Transportation Engineering Consultant Services dated August 23, 2011 between the CITY and CONSULTANT ("MASTER AGREEMENT") as amended on August 21, 2012 and extended on May 7, 2013.

**PROJECT BACKGROUND**

The Project is generally described providing engineering assistance with an application for a Lane Reduction along Powerline Road from Sunrise Boulevard to city boundary in the City of Fort Lauderdale. The overarching goal of the project is to assist the City with the Florida Department of Transportation's (FDOT) lane elimination and review process during Stages 2 and 3 including attending one City Commission presentation.

**SPECIFIC SCOPE OF SERVICES AND DELIVERABLES**

T.Y. Lin International (CONSULTANT) with The Corradino Group, Inc. (SUBCONSULTANT) and Progressive Design & Engineering, Inc. will collaborate in completion of the Scope of Services under this Task Order as follows:

**Task 1 Project Management and Coordination** – CONSULTANT will manage and complete the tasks and deliverables identified in this scope of services and coordinate with the City Project Manager to ensure completion within the project timeline. A primary component of the Project Management task will be the completion of quality control of our analyses and documentation, and quality assurance checks of our performance. CONSULTANT will provide Quality Control (QC) of all draft and final deliverables prior to submittal to the City.

*1.1 Project Management Progress Meetings*

CONSULTANT Project Manager will prepare for, attend and complete follow-up activities associated with monthly meetings with the City Project Manager to review progress to date, activities accomplished, next steps, budget and schedule adherence, review of unforeseen events, etc. All two (2) of these meetings will be held in person, and will include preparation and corresponding materials (agenda, progress reports, etc), and follow-up activities resulting from these monthly meetings.

*1.2 Team Meetings*

During the course of technical and outreach activities, CONSULTANT Project Manager will organize two (2) team coordination meetings – including a kickoff meeting, and an interim meeting before submitting the final draft deliverables.

*1.3 Invoicing and Progress Report*

CONSULTANT will prepare a work breakdown structure and schedule for all tasks and deliverables necessary to complete the project on time and within budget. CONSULTANT will also prepare and submit two (2) monthly invoices in a format approved by the City. (Schedule for the work is February 18, 2014 through April 25, 2014.)

*1.4 Other Administrative Activities*

CONSULTANT will prepare, submit and file all documentation required under our contract with the City, including all time sheets, expense reports/receipts, and preparation of subconsultant agreements.

**Task 2 City Commission Meeting** - CONSULTANT shall partner with the City to provide technical support at one City Commission meeting. The CONSULTANT will share information regarding potential transportation benefits and impacts of this project to the City Commission if necessary. The City staff will prepare and give the presentation. The main objective of the City Commission Meeting is to obtain endorsement of the proposed project.

*2.1 City Commission Meeting – Preparation and Attendance*

CONSULTANT will provide support as necessary for the City to hold a presentation at a City Commission Meeting, including preparation of materials for the agenda package, and will attend the meeting.

**Task 3 Data Collection and Analysis** - CONSULTANT and SUBCONSULTANT shall assemble and analyze traffic, roadway, and safety data and summarize it for technical analyses in Task 4.

*3.1 Existing Conditions Traffic Counts*

The City has provided ATR and vehicle classification counts. To complete the traffic operations analysis intersection turning movement counts will also be required and will be collected over the course of one day by SUBCONSULTANT (i.e., PDE) (*Note: The cost for SUBCONSULTANT to conduct these counts is \$3,400; City may elect to collect this information through some other means.*)

*3.2 Crash Data*

The City will provide five years' worth of crash data which will be used by the CONSULTANT to complete safety analyses which are required for the Lane Elimination Review and Approval Process.

*3.3 Inventory of Existing Roadway Features*

CONSULTANT will prepare a complete inventory of all roadway features, traffic controls, geometrics, bus stops facilities, sidewalks, driveways, and other field conditions that are needed to complete the transportation analyses described in Task 4.

The actual field data collected from the City and from field surveys will be aggregated and summarized and a narrative description will be prepared to describe the data collected.

**Task 4 Transportation Analyses** - CONSULTANT and SUBCONSULTANT shall conduct the following technical analyses to support the project.

*4.1 Develop 2035 traffic forecasts with and without the proposed project*

SUBCONSULTANT will use the Southeast Regional Planning Model (SERPM) Version 6.5 to develop traffic projections for three time periods for the two future

scenarios (2035 without any lane elimination and 2035 with lane elimination) to conduct the following tasks:

Develop networks

- Obtain the latest SERPM6.52e model from the FSUTMS website. Setup the model.
- Review 2005, 2035 Build and No-Build networks within 2-mile radius of the study area and adjust as needed
- Run 2005 base year, 2035 No-Build and 2035 Build scenarios, and extract required model outputs for further analysis. The loaded networks will be provided in CUBE/ArcGIS format as needed.
- Use the 2013 field data provided by the City to project 2035 No Build and 2035 Build turning movements.

4.2 *Complete 2035 traffic analyses with and without proposed project*

CONSULTANT's proposed study area includes signalized intersections along Powerline Road between Sunrise Boulevard and NW 29<sup>th</sup> Street due to the existing surplus capacity of the roadway and limited project impacts to neighboring roadways. At this time, CONSULTANT anticipates the need to analyze the following five (5) signalized intersections:

- Powerline Rd at Sunrise Blvd
- Powerline Rd at NW 13<sup>th</sup> St
- Powerline Rd at NW 16<sup>th</sup> St
- Powerline Rd at NW 19<sup>th</sup> St
- Powerline Rd at NW 29<sup>th</sup> St

The Lane Elimination Review and Approval Process requires analysis of roadways and intersections only on the state system – which in the proposed study area includes five Powerline Road intersections.

CONSULTANT proposes to conduct the analyses for three time periods:

- 7:00-10:00 am peak period – which also includes arrivals to the schools
- 1:00-4:00 pm – to account for midday traffic conditions as well as departures from the schools
- 4:00-6:00 pm – pm peak period as well as child care pickup times at the two schools

CONSULTANT will complete traffic analyses of two scenarios:

- Year 2035 without the project
- Year 2035 with one lane eliminated in the northbound direction and one lane eliminated in the southbound direction

CONSULTANT proposes to use the SYNCHRO software package to complete the traffic impact analyses.

4.3 *Complete Crash Analysis including potential impacts with and without proposed project*

CONSULTANT will complete an analysis of crashes (all types and involving all modes), crash locations, and potential increases or decreases in crashes using data provided by the CITY and collected by the SUBCONSULTANT (See Task 3.2) under the two scenarios using the Crash Modification Factors provided in the *Highway Safety Manual*. Five years of the most recent data will be used for or accidents involving bicycles or pedestrians, and three years of the most recent data will be used for all other accidents.

- 4.4 *Improvements to mitigate adverse impacts*  
If any of the locations experience a significant adverse impact as a result of any of the two scenarios, the CONSULTANT will propose and test a range of improvements to mitigate those impacts, such as changes to signal timing, signal phasing, signage, striping, relocation of bus stops, introduction of HAWK signals, and other easily implementable and relatively inexpensive transportation system management strategies. The transition of the bike lanes at the two end intersections need to be determined to mitigate any adverse impacts.
- 4.5 *Recommended 2035 transportation improvements with and without proposed project*  
CONSULTANT will prepare a set of recommendations that best and most efficiently address any potential impacts resulting from changes incorporated into the four scenarios. These recommendations will be prepared for automobile and truck traffic, bus operations, and for pedestrian and bicycle systems.
- 4.6 *Documentation/Transportation Analysis Report*  
The data, methodologies and findings produced by the above analyses (tasks 4.1 through 4.5) will be summarized in a draft technical memorandum which addresses the non- design requirements for the Stage 2 Interim Meeting and Concept Report. Any comments or suggestions to this draft by the City Project Manager will be incorporated into a final technical memorandum.

**Task 5 Conceptual Design** – CONSULTANT will prepare preliminary conceptual design plans based on the results and recommendations of the transportation analysis per FDOT guidelines and standards, reviews with FDOT District Four staff, and recommendations made by the City, and the guidance provided in the Lane Elimination Review and Approval Process documents provided by the City. The draft conceptual design plans will be reviewed with the City Project Manager, and comments and suggestions to this draft from City will be compiled by the City Project Manager and forwarded to the CONSULTANT for incorporation and revisions for a final conceptual design plan.

- 5.1 *Meeting with City (1)*  
This meeting is intended to provide a progress report about the conceptual designs as they are being developed from draft to final design and supporting documents. The budget for this meeting is provided under Task 1.2.
- 5.2 *Meeting with FDOT District Four*  
One (1) meeting will be held with FDOT District Four staff to discuss preliminary design, coordinate comment/responses of draft concept, and a final meeting to discuss comments/responses of final concept package.
- 5.3 *Field Reviews*  
One field review will be conducted prior to final submittal.
- 5.4 *Typical Section(s)*  
Using the materials described above, the TYLI team will develop conceptual design solutions for the transition locations at the termini of the project and at intersections to be included in the FDOT designs. *FDOT has developed a cross-section and will complete the design plans.*
- 5.5 *Draft and Final Conceptual Plan*  
CONSULTANT will prepare a draft Conceptual Plan for review by the City Project Manager. Any comments or suggestions to this draft by the City Project Manager will be incorporated into a final Conceptual Plan. The draft and final Concept Plans will be developed for a prototype of bikes lanes through signalized intersection, un-signalized intersection, in front of a driveway, and at project termini.

## **Task 6 Concept Report and Documentation**

### *6.1 Prepare draft Concept Report for use in application to FDOT*

CONSULTANT will prepare a draft Concept Report for review with the City Project Manager. The draft Concept Report will both summarize the major findings as well as incorporate detailed analyses, design plans, documentation, etc., as appendices.

### *6.2 Prepare final Concept Report for use in application to FDOT*

CONSULTANT will prepare a Final Concept Report which incorporates, if any, edits, suggestions or comments by the City Project Manager.

## **DELIVERABLES:**

Deliverables for this project shall consist of the following:

### **Task 1**

- Prepare agendas and meeting notes for monthly Progress Meeting with the City (two hours maximum).
- Prepare a critical path schedule for project tasks and deliverables based on the work scope.
- Subcontract agreements for work to be completed by The Corradino Group, Inc. and Progressive Design & Engineering, Inc.
- Produce monthly progress reports that reflect the project schedule and show the budgeted cost for each task and/or deliverable, tasks completed/percent complete, and cost of materials.
- Produce and submit monthly invoices by the 20<sup>th</sup> of each month.
- Other administrative tasks associated with the obligations of our contract with the City of Ft. Lauderdale.

### **Task 2**

- Prepare materials for Commission Meeting agenda package

### **Task 3**

- Data files
- Narrative description of data collection effort

### **Task 4**

- 2035 traffic forecasts with and without the proposed project
- Draft Transportation Analysis for the Powerline Road Lane Elimination Review and Approval Process technical memorandum
- Final Transportation Analysis for the Powerline Road Lane Elimination Review and Approval Process technical memorandum

### **Task 5**

- Draft Conceptual Plans & Final Conceptual Plans

### **Task 6**

- Draft Concept Report
- Final Concept Report

### **PROJECT ASSUMPTIONS**

The transportation impact analysis resulting from this project is limited within the confinements of the proposed study area.

### **CITY'S RESPONSIBILITIES**

- CITY shall provide the venue for the City Commission Meeting.
- CITY shall provide the existing traffic count data at signalized intersections by time of day (TOD), vehicle classification, queuing,
- CITY shall provide crash data for five years.
- CITY shall provide the previous studies, plans, and other documents summarizing the transportation issues in the project area.

### **ADDITIONAL SERVICES**

If authorized in writing by the CITY as an amendment to this Task Order, the CONSULTANT shall furnish or obtain from others, Additional Services of the types listed in Article 8 of 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 1 through 6 inclusive within two (2) months of written Notice to Proceed.

### **PROJECT FUNDING**

Performance of this project is at the CITY's discretion. Funding for the project is in place and the work shall begin after the CITY issues the Notice to Proceed (NTP).

**METHOD OF COMPENSATION**

The services performed will 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. The total hourly rates payable by the CITY for each of CONSULTANT's employee categories, reimbursable expenses and sub-consultant fees are shown on Exhibit "A" attached hereto and made part hereof.

**TERMS OF COMPENSATION**

<b>Task No.</b>	<b>Task Title</b>	<b>Consultant</b>	<b>Corradino Group</b>	<b>PDE</b>	<b>Total</b>
1	Project Management and Coordination	\$3760.00			\$3760.00
2	Public Involvement	\$1080.00			\$1080.00
3	Data Collection and Analysis	\$1080.00		\$3400.00	\$4480.00
4	Transportation Analysis	\$16386.00	\$3872.00		\$20258.00
5	Conceptual Design	\$10826.00			\$10826.00
6	Concept Report and Documentation	\$4834.00			\$4834.00
All tasks					\$45238.00
<b>Task No.</b>	<b>Task Title</b>	<b>Consultant</b>	<b>Corradino Group</b>	<b>PDE</b>	<b>Total</b>
6	Report and Documentation (Supplies, Production)	\$50.00			\$50.00
All other cost					\$50.00
<b>TOTAL</b>					<b>\$45288.00</b>

The total number of hours for the project is (278) for CONSULTANT, including (32) for Corradino Group and (40) for PDE.



### **CITYCONTACTS**

Requests for payments should be directed to City of Fort Lauderdale Accounts Payable via e-mail to [AcctsPayable@FortLauderdale.gov](mailto:AcctsPayable@FortLauderdale.gov). All other correspondence and submittals should be directed to the attention of Karen Mendrala, Project Manager, 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  
Transportation & Mobility Department  
290 N.E. 3<sup>rd</sup> Avenue  
Fort Lauderdale, Florida 33301

### **CONSULTANT CONTACTS**

T.Y. Lin International  
1501 NW 49<sup>th</sup> Street, Suite 203  
Fort Lauderdale, FL 33309  
Vikas Jain, AICP, GISP  
Email: [vikas.jain@tylin.com](mailto:vikas.jain@tylin.com)  
Phone: 954-308-3353  
Fax: 954-491-6117

**CLOSURE**


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

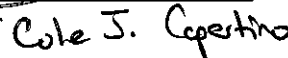
(CORPORATE SEAL)

ATTEST:

  
JONDA K. JOSEPH, City Clerk

Approved as to form:

  
~~CARRIE L. SARVER~~  
Assistant City Attorney

  
Cole J. Capertino

**WITNESS:**

Vikas Jain

VIKAS JAIN

Print Name

Srin Barber

Srin Barber

Print Name

**T.Y. Lin International**

By: [Signature]

Name: Joe Yesbeck

Title: Vice President

(CORPORATE SEAL)



ATTEST:

By: [Signature]

Name: Veronica Pennie

Title: Assistant Secretary

STATE OF FLORIDA:  
COUNTY OF BROWARD:

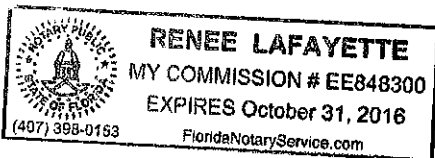
The foregoing instrument was acknowledged before me this 6<sup>th</sup> day of February 2014,  
by Joe Yesbeck and \_\_\_\_\_ as Vice President  
and \_\_\_\_\_ respectively, of T.Y. Lin International.  
They are

personally known to me or  identification.

have produced Dennis License as

(SEAL)

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



Name of Notary Typed, Printed or Stamped

My Commission Expires: 10.31.2016

EE848300  
Commission Number

**Exhibit "A"**

**A. Fee Schedule**

**CONSULTANT**

Task No. and Task Title	Project Principal		Project Manager		Senior Engineer		Engineer		Engineer Intern		Clerical		TOTAL	
	Hours	Labor	Hours	Labor	Hours	Labor	Hours	Labor	Hours	Labor	Hours	Labor	Hours	Labor
Task 1 – Project Management and Coordination	-	-	16	\$2880	4	\$604	-	-	-	-	6	\$276	26	\$3760
Task 2 – Public Involvement	-	-	6	\$1080	-	-	-	-	-	-	-	-	6	\$1080
Task 3 – Data Collection and Analysis	-	-	6	\$1080	-	-	-	-	-	-	-	-	6	\$1080
Task 4 – Transportation Analyses	-	-	14	\$2520	90	\$13590	-	-	-	-	6	\$276	110	\$16386
Task 5 – Concept Design	-	-	14	\$2520	6	906	-	-	100	\$7400	-	-	120	\$10826
Task 6 – Report and Documentation	4	\$820	20	\$3600	-	-	-	-	-	-	9	\$414	34	\$4834
<b>TOTALS</b>	4	\$820	76	\$13680	98	\$15100	0	\$0	100	\$7400	22	\$966	278	\$37966

**CORRADINO GROUP**

Task No. and Task Title	Traffic Modeler		TOTAL	
	Hours	Labor	Hours	Labor
Task 4 – Transportation Analysis (SERPM)	32	\$3872	32	\$3872
<b>TOTALS</b>	32	\$3872	32	\$3872

**PROGRESSIVE DESIGN ENGINEERING (PDE)**

Task No. and Task Title	Hours	Labor
Task 3 – Turning Movement Counts (one day/8 hours \$680 at five intersections)		\$3,400
<b>TOTALS</b>		\$3,400

**B.Reimbursable 20**

Task No. and Task Title	Reimbursable Description	Consultant	Corradino Group	Progressive Design Engineering	Subtotal
Task 6 – Report and Documentation	Production of Final Report (3 copies)	\$50	-	-	\$50
	<b>Other Cost Subtotal</b>	\$50	\$0	\$0	\$50