

# CENTRAL FLORIDA EXPRESSWAY AUTHORITY

## MEMORANDUM

TO: CFX Board Members

FROM: Aneth Williams   
Director of Procurement

DATE: April 4, 2017

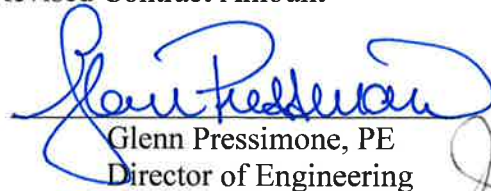
SUBJECT: Authorization for Approval of Supplemental Agreement No. 8  
URS Corporation Southern, Inc.  
Post Design Consultant Services  
SR 408 / SR 417 Ultimate Interchange Improvements, Phase II  
Project 253F, Contract No. 000818

Board approval is requested of Supplemental Agreement No. 8 with URS Corporation Southern, Inc. in the not-to-exceed amount of \$781,357.45. Services will include shop drawing reviews, attendance at construction meetings, site visits, and responding to the design/builder's requests for information on construction project 253G (SR 408 / SR 417 Ultimate Interchange Improvements – Phase II).

This Supplemental Agreement will be a continuation of an agreement previously approved. (Original Agreement dated November 14, 2011).

Original Contract Amount	\$5,000,000.00
Supplemental Agreement No. 1	\$550,000.00
Supplemental Agreement No. 2	\$0.00
Supplemental Agreement No. 3	\$259,048.79
Supplemental Agreement No. 4	\$0.00
Supplemental Agreement No. 5	\$0.00
Supplemental Agreement No. 6 (Phase I Post Design)	\$361,091.19
Supplemental Agreement No. 7	\$79,270.88
<u>Supplemental Agreement No. 8 (Phase II Post Design)</u>	<u>\$781,357.45</u>
Total Revised Contract Amount	\$7,030,768.31

Reviewed by:

  
Glenn Pressimone, PE  
Director of Engineering



**SUPPLEMENTAL AGREEMENT NO. 8**  
**TO**  
**AGREEMENT FOR PROFESSIONAL SERVICES**  
**POST DESIGN SERVICES (253G)**

**SR 408 / SR 417 ULTIMATE INTERCHANGE IMPROVEMENTS – PHASE II**

THIS SUPPLEMENTAL AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2017, by and between the CENTRAL FLORIDA EXPRESSWAY AUTHORITY (F/K/A ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY), an agency of the State of Florida, hereinafter called "CFX" and the consulting firm of URS CORPORATION SOUTHERN, of Orlando, Florida, hereinafter called the "CONSULTANT."

WHEREAS, Section 4.24 of Exhibit "A" of the Agreement for Professional Services between CFX and the CONSULTANT, dated the 14<sup>th</sup> day of November 2011 provides that after completion of the services outlined in Exhibit "A" for Project Number 253F of the said Agreement for Professional Services, CFX may negotiate with the CONSULTANT a Supplemental Agreement for Post Design Services and whereas, Articles 2.00 and 12.00 of the Agreement for Professional Services provide that in the event that CFX shall change the amount of work of the said Agreement for Professional Services, the fees to be paid to the CONSULTANT shall be subject to adjustment as shall be mutually agreed upon:

NOW, THEREFORE, BE IT RESOLVED THAT:

1. CFX hereby authorizes the CONSULTANT to proceed with Post Design Services required as outlined in the CONSULTANT's correspondence to CFX dated April 4, 2017 which is attached hereto and made a part of this Supplemental Agreement.

2. All invoices from the CONSULTANT for Post Design Services shall be submitted to CFX with complete documentation. Invoices for Post Design Services shall not be a continuation of the original CONSULTANT's contract amount for final design services and shall only be for those services as outlined in this Supplemental Agreement. Compensation for Post Design Services shall be invoiced to CFX at an hourly rate, inclusive of overhead, profit and expenses (exclusive of travel). The hourly rate shall be calculated using the employee's actual direct salary and the negotiated Post Design Services multiplier, as outlined in the CONSULTANT's correspondence to CFX dated April 4, 2017. Direct expenses will be reimbursed for local travel only (per mile). The maximum fee for Post Design Services shall be \$781,357.45

3. Section 4.24 of the original Agreement for Professional Services is revised as outlined in Exhibit "A," which is attached hereto and made a part of this Supplemental Agreement.

4. Any supplemental agreements for Post Design Services shall be in accordance with the appropriate Articles within the original CONSULTANT Agreement for Professional Services.

All provisions of said Agreement for Professional Services, or any Supplements thereto, not modified by the above, shall remain in full force and effect, the same as if they had been set forth

herein. In the event of a conflict between the provisions of this Supplemental Agreement and of the said Agreement for Professional Services, or any Supplements thereto, the provisions of this Supplemental Agreement, to the extent such provision is reasonable, shall take precedence.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed, in triplicate, the day and year first above written.

CENTRAL FLORIDA

EXPRESSWAY AUTHORITY

Witness: \_\_\_\_\_

Assistant Secretary

By: \_\_\_\_\_

Director of Procurement

URS CORPORATION SOUTHERN

Witness: \_\_\_\_\_

Print Name:

Title:

By: \_\_\_\_\_

Print Name:

Title:

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## **Exhibit "A"**

### **Project 253G (Phase II Construction) SR 408 / SR 417 Ultimate Interchange Improvements Post-Design Scope of Services (Section 4.24)**

#### **4.24 Post Design Services**

##### **A. Compensation**

The Consultant's compensation for post-design services may be added by supplemental agreement and shall be at an hourly rate, inclusive of overhead, profit and expenses, and exclusive of travel. No compensation will be made for correction of errors and omissions or clarifications.

##### **B. General Support**

The Consultant shall support the post-design process as follows:

- a) Answer questions relative to the plans, typical sections, quantities and special provisions.
- b) Make any necessary corrections to the plans, typical sections, quantities, notes, etc. as may be required.
- c) Attend pre-award meeting with Contractor, CFX, and CFX's CEI.

##### **C. Pre-bid Conference**

The Consultant shall, prior to the pre-bid conference, be prepared to walk the project with the assigned CFX Resident Construction Engineer to discuss the plans and details. The Consultant shall be prepared to attend the pre-bid conference and respond to questions related to the plans, details, and special provisions.

##### **D. Addenda**

The Consultant shall prepare any addenda required to clarify the work included in the contract documents. Addenda may be required based on the project inspection with the assigned CFX Resident Construction Engineer, or questions developed in the pre-bid conference, or conditions discovered by bidders during the bid period.

##### **E. Field Visits**

The Consultant shall be available to respond to questions in the field that may arise relative to the plans, details or special provisions during construction. The Consultant will periodically visit the project site to observe the progress of construction. This visit will not make the place of formal construction inspection by CFX's Construction Manager and their inspection team. Rather, it is intended to provide the opportunity for members of the design team to observe whether work by the Contractor is being performed in general conformance with the project plans. Written memos of all such field visits shall be submitted to CFX and their Construction Manager within five business days of the trip.

## **F. Shop Drawing Reviews**

The Consultant shall review and approve shop drawings from the Contractor for roadway, utilities, structural, lighting, FON, signing and drainage elements. This work will include the erection procedure plans, review proposals for substitutions, development of supplemental agreements, and assistance with other engineering services required to facilitate construction of the project. Reviews will be conducted and returned within two weeks from receipt of information.

## **G. Post-Design Contact**

The Consultant shall appoint a responsible member of the firm to be the contact person for all post-design services. This person shall be continually available during the course of construction for review of design plans.

## **H. Timeliness**

The Consultant shall make every reasonable effort to process any material presented for review in a prompt manner recognizing a construction contract is underway.

## **I. Meetings**

The Consultant shall attend partnering meetings as requested by CFX. The Consultant will also attend progress / coordination meetings as requested by CFX including, but not limited to, the Notice to Proceed meeting.

## **J. Bridge Load Ratings**

Approved design bridge load ratings were obtained by the Consultant under the final design phase of this contract. The Contractor shall be responsible for revising and resubmitting the load ratings if changes to the bridge design occur during construction. Otherwise, the Consultant shall provide written correspondence to FDOT when construction is complete that the bridges were constructed in accordance with the plans and the design load ratings still apply.

## **K. Geotechnical Engineering**

The Consultant shall provide geotechnical engineering services as needed by CFX, relative to pile driving, earthwork, embankment and MSE wall construction.

## **L. Utilities**

The Consultant shall provide utility consulting services as needed by CFX, relative to proposed utility adjustments within the project limits.

## **M. Record Drawings**

Based on information provided by the Contractor, the Contractor's surveyor and CFX's Construction Manager, the Consultant will prepare record drawings reflecting improvements built for this project. This scope assumes surveys will be undertaken by a registered surveyor by the Contractor.

**From:** Noppinger, Steve <steve.noppinger@aecom.com>  
**Sent:** Tuesday, April 04, 2017 8:56 AM  
**To:** Glenn Pressimone; Will Hawthorne  
**Cc:** Foster, Gary (Orlando)  
**Subject:** CFX 253F - Amendment No. 8 Request  
**Attachments:** AECOM - CA 8 Post Design Services.xlsx; CFX 253G-Scope of Services CA 8 Final.docx

Attached is a revised scope of services and fee proposal for this amendment. This revision includes the development of a probable construction cost estimate for the LS items as well as an evaluation of the bids.

**Stephen Noppinger, PE**  
Surface Transportation Manager, Transportation Engineering, Greater Florida  
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M +1-407-718-1990  
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[aecom.com](http://aecom.com)

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SUPPLEMENTAL AGREEMENT NO. 8

TO

AGREEMENT FOR PROFESSIONAL SERVICES

POST DESIGN SERVICES (253F)

SR 408/SR 471 ULTIMATE INTERCHANGE IMPROVEMENTS – PHASE II

1.0 GENERAL

1.02 Description

The services to be provided under this Contract Amendment are to provide post design services to the Design-Build Contract 253G.

4.0 WORK PERFORMED BY CONSULTANT

The Consultant shall be responsible for the work outlined in this Section. The work shall conform to the standards, criteria, and requirements of this Scope of Services.

424 Post Design Services

424.1. Pre-Construction Support

4.24.1.1 Pre-Construction Meeting

The Consultant shall attend a pre-award meeting with the Design-Build Firm, CFX, and CEI.

4.24.1.2 Addenda

The Consultant shall prepare up to one (1) addenda required to clarify the work included in the contract documents.

4.24.1.3 Construction Cost Estimate & Evaluation

The Consultant shall prepare a probable construction cost estimate and evaluate the LS bids for the various components of the project.

424.2 Plan Reviews



The Consultant shall review the Design-Build Firm's plan submissions for compliance with Design-Build intent, and compliance with design standards established for this project.

#### 424.2 Request for Information (RFI)

The Consultant shall respond to RFI's from the Design-Build Firm for those items related to the bridge structures including temporary shoring structures.

#### 424.3 Shop Drawing Reviews

The Consultant shall review and approve shop drawings from the Design-Build Firm for those items related to the bridge structures including temporary shoring structures.

#### 424.5 Bridge Load Ratings

Approved design bridge load ratings were submitted by the Consultant under the final design phase for the bridge structures. The Design-Build Firm shall be responsible for revising and resubmitting the load ratings if changes to the bridge design occur during construction. The Consultant shall review revised load ratings submitted by the Design-Build Firm. If no changes occurred during construction to the bridge structures and no additional load ratings are necessary, the Consultant shall provide written correspondence to FDOT that the bridges were constructed in accordance with the plans and the load ratings for the structure as designed still apply.

#### 424.6 Record Drawings

Based on information provided by the Design-Build Firm, its' surveyor and CFX's Construction Manager, the Consultant will prepare record drawings reflecting improvements build for the bridge structures only. This scope assumes surveys will be undertaken by a registered surveyor by the Design-Build Firm.

#### 424.7 Management and Meetings

##### 424.7.1 Field Visits

The Consultant shall be available to respond to questions in the field that may arise relative to the intent of the Concept Plans, or details pertaining to the bridge structures. Visits are not considered to be inspections of construction and will not take the place of formal construction inspection by CFX's Construction Manager and their inspection team. Rather, it is intended to provide the opportunity for members of the design team to observe whether work by the Design-Build Firm is being performed in general conformance with the project plans as they relate to the bridge structures.

##### 424.7.2 Meetings

The Consultant shall attend up to 6 (six) meetings as requested by CFX.

The following items are not included in the scope of this amendment:

1. Utility coordination
2. Geotechnical reviews

CENTRAL FLORIDA EXPRESSWAY AUTHORITY														
Project Number: 253F														
DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 8)														
URS Corporation														
CFX Contract No.: 000818														
SUMMARY FEE SHEET														
CONTRACT SECTION	ACTIVITY MANHOURS	Project Manager	Deputy PM	Senior Engineer	Engineer	Sr. Roadway Technician	Roadway Technician	Clerical	Sr. Surveyor & Mapper	Surveyor & Mapper	Survey Technician	Total Manhours	Total Cost	Avg. Rate
402 & 409	Governmental Agencies & Public Meetings	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
403	Preliminary Design Report-Review	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
404	Surveys and Mapping	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
405	Geotechnical Investigation	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
406	Contamination Impact Analysis	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
407	Pavement Design	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
408	Borrow Pits	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
410	Environmental Permits	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
411	Utilities	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
412	Roadway Design	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
413	Structures Design	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
414	Drainage Design	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
415	Roadway Lighting	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
416	Traffic Engineering	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
417 & 418	Signal & Pav't Marking Plans	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
419	Right-of-Way Surveys	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
420	Cost Estimates	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
421	Speical Provisions and Specifications	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
422	Fiber Optic Network (FON)	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
423	Toll Plazas	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
424	Post Design Services	440	1,156	1,541	1,101	550	550	165	0	0	0	5,503	\$300,372.27	\$54.58
700	Administration	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
TOTAL MANHOURS		440	1,156	1,541	1,101	550	550	165	0	0	0	5,503	\$300,372.27	\$54.58
WAGE RATES		\$93.60	\$61.88	\$63.88	\$38.91	\$39.66	\$35.06	\$32.00	\$0.00	\$0.00	\$0.00	N/A	N/A	
TOTAL DIRECT COSTS		\$41,184.00	\$71,533.28	\$98,439.08	\$42,839.91	\$21,813.00	\$19,283.00	\$5,280.00	\$0.00	\$0.00	\$0.00	N/A	\$300,372.27	

#### Salary Related Costs

Total Activity Salary Costs

Post Design Labor Multiplier

156.80%

Subtotal Salary Related Costs (Limiting Amount)

\$300,372.27

\$470,983.72

\$771,355.99

#### Subconsultants

Ardaman & Associates

Nadic Engineering Services

RS&H

WBQ

Subtotal Subconsultants (Limiting Amount)

\$10,001.46

\$0.00

\$0.00

\$0.00

\$10,001.46

GRAND TOTAL (Maximum Limiting Amount)

\$781,357.45

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY****URS Corporation****Project Number: 253F****CFX Contract No.: 000818****DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 8)****County****HIGHWAY TASK LIST**

Task No.	Task Description	Units	Number of Units	Hours per Unit	Total Hours	Comments
24.1 Pre-Construction Support						
24.1.1	Pre-Construction Meeting	LS	1	16	16	
24.1.2	Addendum Preparation	LS	1	16	16	
24.1.3	Constr. Cost Est. & Evaluation	LS	1	300	300	
24.1 Pre-Construction Support Subtotal					332	
24.2 Plans Review						
24.2.1	Roadway	EA	2	100	200	
24.2.2	Drainage	EA	2	140	280	Includes calculation review
24.2.3	Lighting	EA	2	40	80	
24.2.4	ITS	EA	2	40	80	
24.2.5	SPM	EA	2	40	80	
24.2.6	Structures	EA	4	140	560	Retaining Walls, Misc Str only.
24.2 Plans Review Subtotal					1,280	
24.3 Request for Information						
24.3.1	Roadway	EA	12	3	36	
24.3.2	Drainage	EA	20	3	60	
24.3.3	Lighting	EA	5	3	15	
24.3.4	ITS	EA	6	3	18	

CENTRAL FLORIDA EXPRESSWAY AUTHORITY							URS Corporation	
Project Number: 253F							CFX Contract No.: 000818	
DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 8)								
County								
HIGHWAY TASK LIST								
24.3.5	Structures - Bridges	EA	160	4	640	Bridge Structures only.		
24.3.6	Structures - Field Directives	EA	20	8	160	Bridge Structures only.		
24.3.7	Structures - Walls, Misc	EA	20	4	80	Walls, Temp Walls, Misc.		
24.3 Request for Information Subtotal					1,009			
24.4 Shop Drawing Review								
24.4.1	Roadway	EA	0	0	0	Not included since this is D-B		
24.4.2	Drainage	EA	0	0	0	Not included since this is D-B		
24.4.3	Lighting	EA	0	0	0	Not included since this is D-B		
24.4.4	ITS	EA	0	0	0	Not included since this is D-B		
24.4.5	Structures					Bridge Structures only.		
	Vibration Monitoring	EA				Not included since this is D-B		
	Review of Pile Driving Records	EA				Installation Plan, Test Piles, etc. - Ardaman		
	Traffic Control Plan	EA	4	8	32			
	Permanent MSE Walls	EA	12	4	48			
	Segment Working Drawings	EA						
	Ramp A (38 Segments)	EA	76	4	304			
	Ramp C (32 Segments)	EA	64	4	256			
	Ramp A & D1 (22 Segments)	EA	44	4	176			
	Segment Standard Drawings	EA						

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY****URS Corporation****Project Number: 253F****CFX Contract No.: 000818****DESCRIPTION: SR 408/SR 417 Ultimate Interchange****(CONTRACT AMENDMENT NO. 8)****County****HIGHWAY TASK LIST**

	End Diaphragms	EA	1	16	16	
	Intermediate Diaphragms	EA	1	16	16	
	Closure Pours	EA	1	8	8	
	Blisters	EA	1	8	8	
	Access Hatches	EA	1	4	4	
	Access Ramps	EA	1	4	4	
	Headed Rebar	EA	1	4	4	
	Rebar Couplers	EA	1	4	4	
	Diaphragm Screening	EA	1	4	4	
	Concrete Inserts	EA	1	4	4	
	Erection Manual & Geometry Control	EA	2	200	400	Assumes parallel modelling to verify. Includes stress evaluation and camber calcs at each stage. Required for later as-built load rating evaluation.
	PT Hardware/Stressing/Jacking	EA			0	
	Hardware	EA	1	8	8	
	Ductwork	EA	1	8	8	
	Grout and Grouting Procedures	EA	1	16	16	
	Elongations	EA	3	24	72	
	Lighting in Box Girders	EA	3	8	24	
	Temporary works	EA	3	60	180	
	Epoxy for Doweled Bars	EA	1	4	4	

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY****URS Corporation****Project Number: 253F****CFX Contract No.: 000818****DESCRIPTION: SR 408/SR 417 Ultimate Interchange****(CONTRACT AMENDMENT NO. 8)****County****HIGHWAY TASK LIST**

	Mass Concrete Plan	EA	1	16	16	
	Mix Designs	EA	3	8	24	
	Concrete Coating / Colors	EA	1	4	4	
	Expansion Joints - Modular	EA	3	8	24	
	Expansion Joints - Parapet Cover Plates	EA	3	4	12	
	Multi-Rotational Bearings	EA	3	16	48	
	Bearing Anchor Rods & Grout	EA	1	4	4	
	Prestressed Beams	EA	12	4	48	
	SIP Forms	EA	3	6	18	
	Deck Overhang Brackets	EA	3	6	18	
	Prestressed Beam Bracing	EA	3	6	18	
	Utility Hangers/Conduit Couplers/J-Boxes	EA	3	12	36	
	Bridge Deck Drains	EA	1	24	24	
	Temporary Critical Walls	EA	1	40	40	Only thoses protecting Curved U-Beam Bridges.
	Foundation Shoring	EA	1	40	40	
	Demolition Plans	EA	1	40	40	
24.4.6	Shop Drawing Resubmittals	EA	50	4	200	
24.4 Shop Drawing Review Subtotal					2,214	
24.5 Bridge Load Rating						

CENTRAL FLORIDA EXPRESSWAY AUTHORITY				URS Corporation	
Project Number: 253F				CFX Contract No.: 000818	
DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 8)					
County					
HIGHWAY TASK LIST					
24.5.1	Bridge Load Rating	EA	3	80	240
24.5 Bridge Load Rating Subtotal					240
24.6 Record Drawings					
24.6.1	Record Drawings	LS	1	300	300
24.6 Management and Meetings Subtotal					300
24.7 Management and Meetings					
24.7.1	Field Visits	LS	1	80	80
24.7.2	Meetings	EA	12	4	48
24.6 Management and Meetings Subtotal					128
					5,503



# ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: SR 408 / SR 417 Interchange  
 County: Orange  
 FPN: 253F  
 FAP No.:

Consultant Name: Ardaman  
 Consultant No.:  
 Date: 3/30/2017  
 Estimator: Zan Bates

Staff Classification	Total Staff Hours From Summary -	Senior Engineer	Project Engineer	Engineering Intern	CADD/Computer Technician	Secretary/Clerical	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
24. Post Design Services	0	24	24	24	8	14	0	0	0	0	0	0	0	94	\$10,001	\$106.40
Total Staff Hours	0	24	24	24	8	14	0	0	0	0	0	0	0	94	\$10,001.46	\$106.40
Total Staff Cost		\$3,577.20	\$3,035.52	\$2,176.56	\$546.48	\$685.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$10,001.46	\$106.40

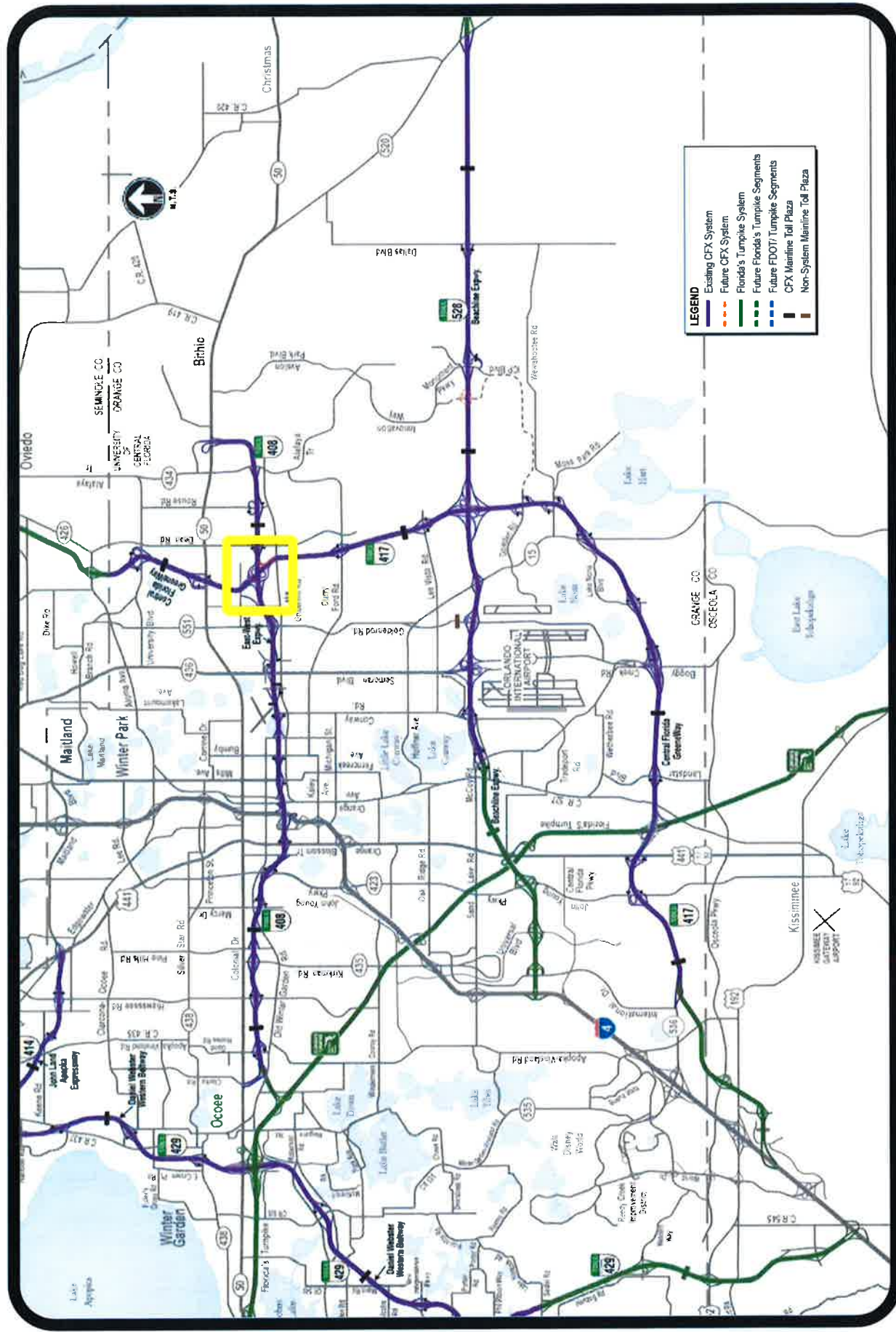
Survey Field Days by Subconsultant  
 4 - Person Crew:

SALARY RELATED COSTS:  
 OVERHEAD: 0.00%  
 OPERATING MARGIN: 0.00%  
 FCCM (Facilities Capital Cost Money): 0.00%  
 EXPENSES: 0.00%  
 Survey (Field - if by Prime) 4-man crew / day  
 SUBTOTAL ESTIMATED FEE: \$10,001.46

Notes:  
 1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.  
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

**CENTRAL FLORIDA EXPRESSWAY AUTHORITY****Ardaman & Associates****Project Number: 253F****CFX Contract No.: 000818****DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 6)****County****HIGHWAY TASK LIST**

Task No.	Task Description	Units	Number of Units	Hours per Unit	Total Hours	Comments
<b>24.1 Pre-Bid Activities</b>						
24.1.1	Pre-Bid Meeting	LS			0	
24.1.2	Addendum Preparation	LS			0	
<b>24.1 Pre-Bid Activities Subtotal</b>					<b>0</b>	
<b>24.2 Request for Information</b>						
24.2.1	Roadway - Geotech	EA	4	6	24	
24.2.2	Drainage	EA			0	
24.2.3	Lighting	EA			0	
24.2.4	ITS	EA			0	
24.2.5	Structures - Geotech	EA	5	10	50	
<b>24.2 Request for Information Subtotal</b>					<b>74</b>	
<b>24.3 Shop Drawing Review</b>						
24.3.1	Roadway	EA			0	
24.3.2	Drainage	EA			0	
24.3.3	Lighting	EA			0	
24.3.4	ITS	EA			0	
24.3.5	Structures	EA			0	
<b>24.3 Shop Drawing Review Subtotal</b>					<b>0</b>	
<b>24.4 Plan Revisions</b>						
24.4.1	Plan Revisions	EA			0	
24.4.2	As-Built and Record Drawings	LS			0	
<b>24.4 Plan Revisions Subtotal</b>					<b>0</b>	
<b>24.5 Management and Meetings</b>						
24.5.1	Coordination	LS	1	6	6	
24.5.2	Field Visits	LS	1	8	8	
24.5.3	Meetings	EA	2	3	6	
<b>24.5 Management and Meetings Subtotal</b>					<b>20</b>	
					<b>94</b>	



# Project Location Map for SR 408 / SR 417 Ultimate Interchange Improvements Phase 2 (253G)