MEMORANDUM

TO:

Authority Board Members

FROM:

Claude Miller

Director of Procurement

DATE:

September 22, 2015

RE:

Approval of Supplemental Agreement No. 6

URS Corporation for

S.R. 408/S.R. 417 Ultimate Interchange Improvements

Project No. 253F; Contract No. 000818

Board approval is requested for Supplemental Agreement No. 6 with URS Corporation in the not-to-exceed amount of \$361,091.19 for post design services for the referenced project. Services will include shop drawing reviews, attendance at construction meetings, site visits, and responding to the contractor's requests for information.

This Supplemental Agreement will be a continuation of an agreement previously approved by the Authority for this project.

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
This Supplemental Agreement No. 6	\$ 361,091.19
Total Revised Contract Amount	\$6,170,139.98

SUPPLEMENTAL AGREEMENT NO. 6

TO

AGREEMENT FOR PROFESSIONAL SERVICES POST DESIGN SERVICES (253F – PHASE 1)

SR 408 / SR 417 ULTIMATE INTERCHANGE IMPROVEMENTS

THIS SUPPLEMENTAL AGREEMENT is made and entered into this	day
of, 2015, by and between the CENTRAL FLORIDA EXPRESSWA	Υ
AUTHORITY (F/K/A ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY), a	n
agency of the State of Florida, hereinafter called the "AUTHORITY" 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 the AUTHORITY and the CONSULTANT, dated the 14th 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, the AUTHORITY 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 the AUTHORITY 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. The AUTHORITY hereby authorizes the CONSULTANT to proceed with Post Design Services required as outlined in the CONSULTANT's correspondence to the AUTHORITY dated September 30, 2015 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 the AUTHORITY 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 the AUTHORITY 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 the AUTHORITY dated September 30, 2015. Direct expenses will be reimbursed for local travel only (per mile). The maximum fee for Post Design Services shall be \$359,932.06
 - 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:	By:
Assistant Secretary	Director of Procurement
	URS CORPORATION SOUTHERN
Witness:	By:
Print Name:	Print Name:
Title:	Title:

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Exhibit "A"

Project 253F (Phase 1 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, the Authority, and the Authority's CEI.

C. Pre-bid Conference

The Consultant shall, prior to the pre-bid conference, be prepared to walk the project with the assigned Authority 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 Authority 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 the Authority'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 the Authority 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 the Authority. The Consultant will also attend progress / coordination meetings as requested by the Authority 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 the Authority, relative to pile driving, earthwork, embankment and MSE wall construction.

L. Utilities

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

M. Record Drawings

Based on information provided by the Contractor, the Contractor's surveyor and the Authority'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.

Project Number: 253F

DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 6)

URS Corporation
CFX Contract No.: 000818

	SUMMARY FEE SHEET													
CONTRACT	ACTIVITY	Project	Deputy	Senior	Engineer	Sr. Roadway	Roadway	Clerical	Sr. Surveyor	Surveyor &	Survey	Total	Total	
SECTION	MANHOURS	Manager	PM	Engineer	Engineer	Technician	Technician	Ciericai	& Mapper	Mapper	Technician	Manhours	Cost	
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	Toli Plazas	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
424	Post Design Services	86	377	343	360	257	206	86	0	0	0	1,715	\$87,463.78	
700	Administration	0	0	0	0	0	0	0	0	0	0	0	\$0.00	
	TOTAL MANHOURS	86	377	343	360	257	206	86	0	0	0	1,715	\$87,463.78	
	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	\$8,049.60	\$23,328.76	\$21,910.84	\$14,007.60	\$10,192.62	\$7,222.36	\$2,752.00	\$0.00	\$0.00	\$0.00	N/A	\$87,463.78	

Salary Related Costs Total Activity Salary Costs		\$87,463.78
Post Design Labor Multiplier	156.80%	\$137,143.21
Subtotal Salary Related Costs (L	Limiting Amount)	\$224,606.99
Subconsultants		
Design Survey (URS)		\$0.00
Ardaman & Associates		\$6,336.13
Nadic Engineering Services		\$6,687.18
RS&H		\$47,672.77
C3TS (Stantec)		\$25,426.97
WBQ		\$50,361.13
Southeastern Survey		\$0.00
Subtotal Subconsultants (Limiting	Amount)	\$136,484.20
GRAND TOTAL (Maximum Limiting	Amount)	\$361,091.19

URS Corporation

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		Number	Hours	Total	
	•				Hours	Comments
	24.1 Pı	e-Bid Activ	rites	6		
24.1.1	Pre-Bid Meeting	LS	_1	2	2	
24.1.2	Addendum Preparation	LS	1	4	4	
	24.1 Pre-Bid Acti	vites Subto	tal		6	
	24 .2 Requ	est for Info	mation			
24.2.1	Roadway	EA	30	3	90	
24.2.2	Drainage	EA	30	3	90	
24.2.3	Lighting	EA	6	3	18	
24.2.4	ITS	EA	10	4	40	4 per bridge (3) + 1 per wall (14) + 1 per sound wall (2) + 4 for
24.2.5	Structures	EA	34	6	204	soundwall architecure + 5 misc.
	24.2 Request for Info	rmation Su	btotal		442	
	24.3 Shop	Drawing I	Review			
24.3.1	Roadway	EA	10	3	30	
24.3.2	Drainage	EA	132	3	396	134 str (incl resubmittals) + 4 misc
24.3.3	Lighting	EA	20	3	60	Includes equipment reviews
24.3.4	ITS	EA	20	3	60	Includes equipment reviews
24.3.5	Structures	EA	30	8	240	5 per bridge (3) + 1 per wall (14) + 1 per sound wall (2) + 4 for soundwall architecure + 5 misc.
	24.3 Shop Drawing	Review Sul	ototal		786	
	24.4	Plan Revisio	ons			
24.4.1	Plan Revisions	EA	4	32	128	
24.4.2	As-Built and Record Drawing	LS	1	120	120	801 shts (roadway, structures, lighting, ITS)
	24.4 Plan Revis	ions Subtot	al		248	
	24.5 Mana	gement and	Meetings			
24.5.1	Coordination	LS	1	32	32	
24.5.2	Field Visits	LS	1	136	136	1 per month (16), 2 people x 4 hours + visit with CEI (8hrs)
24.5.3	Meetings	EA	16	4	64	1 per month (16), 2 people x 2 hours
	24.5 Management and	Meetings S	Subtotal		232	
					1,714	

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project:

SR 408 / SR 417 Interchange

Consultant Name: Ardaman

Consultant No.:

Date: 9/30/2015

County: FPN: FAP No.:

Orange 253F

FAP No.:													Estimator.	Zaii Daies		
Staff Classification	Total Staff	Senior	Project	Engineering	CADD/Comput	Secretary/Cleri	Staff Classi-	SH	Salary	Average						
Staff Classification	Hours From	Engineer	Engineer	Intern	er Technician	cal	fication 6	fication 7	fication 8	fication 9	fication 10	fication 11	fication 12	Ву	Cost By	Rate Per
	Summary -	\$149.05	\$126.48	\$90.69	\$68.31	\$47.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Activity	Activity	Task
24. Post Design Services	0	13	13	23	7	4	0	0	0	0	0	0	0	60	\$6,336	\$105.60
Total Staff Hours	0	13	13	23	7	4	0	0	0	0	0	0_	0	60		
Total Staff Cost		\$1,937.65	\$1,644.24	\$2,085.87	\$478.17	\$190.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$6,336.13	\$105.60

Survey Field Days by Subconsultant 4 - Person Crew:

Check = \$6,336.13

Notes:

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.

		OHOUR -	40,000.10	
SALARY RELATED COSTS:				\$6,336.13
OVERHEAD:	0.00%			\$0.00
OPERATING MARGIN:	0.00%			\$0.00
FCCM (Facilities Capital Cost Money):	0.000%			\$0.00
EXPENSES:	0.00%			\$0.00
	4-man crew			
Survey (Field - if by Prime)	days @	\$ -	/ day	\$0.00
SUBTOTAL ESTIMATED FEE:				\$6,336.13

Ardaman & Associates CFX Contract No.: 000818

Project Number: 253F

DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 6)

County

HIGHWAY TASK LIST

			Number	Hours	Total	
Task	Task Description	Units	of	per	Hours	Comments
No.	rask Description	Onits	Units	Unit	Tiours	Comments
NO.	2/ 1 P	re-Bid Activ				
24.1.1	Pre-Bid Meeting	LS	nes		0	
24.1.2	Addendum Preparation	LS			0	
24.1.2	24.1 Pre-Bid Acti		.1		0	
		est for Infor		U		
24.2.1	Roadway - Geotech	EA	5	4	20	
24.2.2	Drainage Drainage	EA		<u> </u>	0	
24.2.3	Lighting	EA			0	
24.2.4	ITS	EA			0	
24.2.5	Structures - Geotech	EA	5	4		
24.2.3	24.2 Request for Info			<u> </u>	40	
		p Drawing R		Sec. 1.0995	10 min 199	
24.3.1	Roadway	EA	3000		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	
	24.3 Shop Drawing	Review Subt	total		0	
		Plan Revisio				
24.4.1	Plan Revisions	EA			0	
24.4.2	As-Built and Record Drawings	LS			0	
	24.4 Plan Revis	ions Subtotal			0	
	24.5 Mana	gement and N	Meetings			
24.5.1	Coordination	LS	1	6	6	
24.5.2	Field Visits	LS	1	8		
24.5.3	Meetings	EA	2	3		
	24.5 Management and	l Meetings Su	ıbtotal		20	
					60	

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: SR 408/SR 417 Systems Interchange Construction

County: FPN: 253F FAP No.:

Consultant Name: AECOM/Nadic Orange Consultant No.: R11033 Date: 9/28/2015 Estimator: Godwin Nnadi 1/0/1900

FAP No.:	1/0/1900												Esumator.	Godwin Ivna		
Staff Classification	Total Staff Hours From	Project Manager	Chief Engineer	Senior Engineer	Project Engineer	Staff Engineer	Cadd/Compu ter Tech	Sr. Engineer Tech	Secretary	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	SH By	Salary Cost By	Average Rate Per
	"SH Summary - Firm"	\$55.71	\$0.00	\$52.08	\$45,19	\$28.94	\$24.42	\$22.15	\$16.58	\$0.00	\$0.00	\$0.00	\$0.00	Activity	Activity	Task
. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1	\$0	#DIV/0!
. Roadway Analysis	0	0	0	0	0	0	١	o	0	0	0	0	0	0	\$0	#DIV/0!
. Roadway Plans	0	0	0	0	0	o	٥	٥	0	o	0	0	0	0	\$0	#DIV/0!
Sa. Drainage Analysis	0	o	0	0	0	0	o	0	0	0	0	0	0	0	\$0	#DIV/0!
bb. Drainage Plans	0	ا ہ	0 1	0	0	o	o	0	0	0	0	0	0	0	\$0	#DIV/0!
'. Utilities	0	0	0	0	0	o	o	0	0	0	0	0	0	0	\$0	#DIV/0!
. Environmental Permits, Compliance & Clearances	0	0	0	0	o	o	o	0	0	0	0	0	0	0	\$O	#DIV/0!
), Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	o	0	0	0	0	o	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	o	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	o	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0		0	0	o	0	0	Ö	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	o	o	0	0	0	0	0	\$0	#DIV/0!
5. Structures - Segmental Concrete Bridge	o	0	0	0	o	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6. Structures - Movable Span	0	0	0	0		o	۱ ،	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Structures - Retaining Walls	0	0	0	0		o	0	۰ ا	0	0	o	0	0	0	\$0	#DIV/0!
8. Structures - Miscellaneous	o	0	0	0	0	0	0	0	o	0	0	0	0	0	\$0	#DIV/01
19. Signing & Pavement Marking Analysis	٥	l .	o	o	0	o	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	٥		0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	o	0	0	o		0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	o	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	١٠	1 。	o	o	۰ ا	0	0	0	0	0	0	0	0	. 0	\$0	#DIV/0!
24. Lighting Plans	29	17	0	0	12	0	0	0	0	0	0	0	0	29	\$1,489	\$51.36
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	o	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	o	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	29	17	0	0	12	0	0	0	0	0	0	0	0	29		
Total Staff Cost		\$947.07	\$0.00	\$0.00	\$542.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1,489.35	\$51.36

Notes:

\$1,489.35 SALARY RELATED COSTS: \$5,197.83 OVERHEAD: 349% OPERATING MARGIN: 0% \$0.00 0.00% \$0.00 FCCM (Facilities Capital Cost Money): \$0.00 EXPENSES: 0.00% \$6,687.18 SUBTOTAL ESTIMATED FEE: Survey (Field) 4-man crew da S - / day \$0.00 Geotechnical Field and Lab Testing \$0.00 SUBTOTAL ESTIMATED FEE: \$6,687.18 \$0.00 Optional Services \$6,687.18 **GRAND TOTAL ESTIMATED FEE:**

^{1.} This sheet to be used by Subconsultant to calculate its fee.

24. Lighting Plans

Estimator: Godwin Nnadi

253F

Representing	Print Name	Signature / Date
CFX		
Nadic Engineering Services, Inc.	Godwin Nnadi	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Units	Total Hours	Comments
24.1	Pre-Bid Meeting		LS	1	2	1	2	
24.2	Addendum Preparation		LS	0	0	0	0	
24.3	Request for Information		LS	3	4	3	12	
24.4	Shop Drawing Reviews		LS	3	3	3	9	
24.5	Plans Revisions		LS	0	0	0	0	
24.6	Coordination		LS	0	0	0	0	
24.7	Field Review		LS	1	3	1	3	
	Meetings		LS	1	3	1	3	
			Geotech	nical Techni	cal Subtotal	9	29	
24.13	Quality Assurance/Quality Control		LS	%	0%		0	
24.14	Supervision		LS	%	0%		0	
			24. Geotec	nnical Post (Design Total	9	29	

Consultant: RS&H, Inc.
Date Prepared: Septer

TOTAL MAXIMUM LIMITING FEE

September 30, 2015

\$47,672.77

Job Description: SR 408/SR417 Project 253F Phase 1 - POST DESIGN SERVICES Total Man Senior Engineer Engineering Intern Clerical Project Manager Chief Engineer Engineer Hours Man Man Hourly Salary Cost By Man Hourly Ву Man Hourly Man Hourly Man Hourly Hourly Rate Hours Rate Hours Rate Hours Rate Activity Activity Work Element / Activity Rate Hours Hours Rate Hours \$39.33 \$28.92 \$22.04 \$2,218,70 \$69.32 5 \$67.37 \$57.44 17 Request for Information \$39.33 \$28.92 0 \$22.04 0 \$0.00 Pre-Bid Conference 0 \$69.32 0 \$67.37 \$57.44 0 \$28.92 \$22.04 \$0.00 \$39.33 0 n Addenda 0 \$69.32 0 \$67.37 0 \$57.44 Pre-Construction Conference \$69.32 0 \$67.37 0 \$57.44 \$39.33 \$28.92 0 \$22.04 ٥ \$0.00 Shop Drawing Reviews 11 \$69.32 22 \$67.37 65 \$57.44 76 \$39.33 39 \$28.92 \$22.04 217 \$10,183.38 \$69.32 3 \$67.37 \$57.44 \$39.33 \$28.92 \$22.04 28 \$1,290.89 Plan Revisions \$67.37 \$57.44 \$39.33 \$28.92 \$22.04 7 \$329.16 Coordination 0 \$69.32 2 1 \$28.92 \$22.04 13 \$650.93 Field Visits 2 \$69.32 1 \$67.37 \$57.44 \$39.33 2 \$57.44 \$39.33 \$28.92 \$22.04 \$289.83 Meetings 0 \$69.32 1 \$67.37 2 2 \$22.04 \$0.00 Partnering \$69.32 \$67.37 \$57.44 \$39.33 \$28.92 57 28.92 22.04 319 \$14,962.89 6 \$ Totals 15 \$ 69.32 33 \$ 67.37 96 57.44 112 39.33 Total Burdened Salary Costs By Activity **Total Contract Fee Computations** Total Activity Salary Costs \$14,962.89 Request for Information \$7,055.47 Pre-Bid Conference \$0.00 Addenda \$0.00 Pre-Construction Conference \$0.00 \$32,383,15 Subconsultants 1.) Post Design Labor Multiplier 3.1800 Shop Drawing Reviews Plan Revisions \$4,105.03 *Subtotal (Burdened Salaries + Operating Margin) \$47,581.99 Coordination \$1,046,73 Field Visits \$2.069.96 \$90.78 2.) Allowable Travel Expenses Meetings \$921.66 Partnering \$0.00 Subtotal (Burdened Salaries + Operating Margin + Allowable Travel Expenses) \$47,672.77 3.) Subconsultant Fees Total \$0.00 *TOTAL \$47,582.00 \$0.00 **Total Subconsultant Fees**

^{*} THESE AMOUNTS SHOULD BE EQUAL(+/- \$0.05)

RS&H. Inc.	Renato Gonzalez, PE	
CFX		
Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
NO.	24.1 Pre-E	Bid Acitvities				
24.1.1	Pre-Bid Meeting	LS	1	0	0	
24.1.2	Addendum Preparation	LS	1	0	0	
		for Information				
24.2.1	Requests for Information (Sign Structures)	EA	10	4	40	1 per overhead sign structure (4 total), 1 per special foundation (3 total), 1 per barrier/wall mounted sign (3 total)
24.2.2	Requests for Information (Sign Panels)	EA	3	3	9	Based on 5 RFI's
		rawing Review				
24.3.1	Shop Drawings Reviews (Sign Structures)	EA	36	4		First submittal span signs (2 at 8 sheets each = 16), Second submittal span signs (2 at 3 sheets each = 6), Foundations for future signs (2 at 1 sheet each = 2), Barrier/Wall mounted signs (3 at 4 sheets each = 12)
2432	Shop Drawings Reviews (Sign Panels)	EA	12	6	72	Sign panel details and calculations (2 RCM, 1 Gore, 9 Guide Signs)
2.110.12		n Revision				
24.4.1	Plans Revisions	EA	1	12	12	Revise plans and calculations, QAQC plans revision, sign and seal plans revision
	As-Builts and Record Drawings	LS	1	16	16	Includes updating cad files and printing official record drawings
		ent and Meetings				
24.5.1	Coordination	LS	1	8	8	Coordination with URS
24.5.1	Field Visits	LS	1	12	12	6 Visits at 2 hours each
24.5.3	Meetings	EA	3	2	6	2 for Sign Structures, 1 for Sign Panels
	24. Post Design Service	eeTasks Total	•	1	319	

	PM	Chief Eng	Sr Eng	Eng	EI	Clerical	Total per Task
	5%	10%	30%	35%	18%	2%	
RFI	1.00	5.00	15.00	17.00	9.00	1.00	48
Pre-Bid							
Pre-Const							
Addenda							
Shp Dwg	11.00	22.00	65.00	76.00	39.00	4.00	217
Plan Rev	1.00	3.00	8.00	10.00	5.00	1.00	28
Coordination	0.00	1.00	2.00	3.00	1.00	0.00	7
Field Visits	2.00	1.00	4.00	4.00	2.00	0.00	13
Meetings	0.00	1.00	2.00	2.00	1.00	0.00	6
Total	15.00	33.00	96.00	112.00	57.00	6.00	319

Project Number: 253F

Stantec CFX Contract No.: 000818

	Project Number: 253F	- I	CONTRACT 43	CENDAENT NO	. 6						CFX Co	ntract No.: 000818	
	DESCRIPTION: SR 408/SR 417 Ultimate	e interchange (C	LUNTRACTAN	IENDMENT NO	. 6) SUMMARY FEE	SHEET							
CONTRACT		Project	Chief	Senior	Project Engineer	Senior Technician	Technician	Clerical	Sr. Surveyor & Mapper	Surveyor & Mapper	Survey Technician	Total Manhours	Total Cost
SECTION 402 & 400	MANHOURS Governmental Agencies & Public Meetings	Manager 0	Engineer 0	Engineer	0	0		0	0	0	0	0	\$0.0
402 & 409 403	Preliminary Design Report-Review	0	0	0	ا	0		0	اة	ő	0	0	\$0.0
	Surveys and Mapping	١	0	0	ا هٔ ا	0	ان	0	اة	ő	ŏ	ŏ	\$0.0
	Geotechnical Investigation	0	ŏ	0	ا م	0	ان	0	٥١	ő	اة	٥	\$0.0
	Contamination Impact Analysis	0	ا ه	0	ا ة	0	o o	0	o	o l	اه	o l	\$0.0
	Pavement Design	0	ا م	0	ا ه ا	ő	ا	0	ا ا	o l	ō	ol	\$0.0
	Borrow Pits	0	o l	0	ا ا	0	0	0	0	0	0	0	\$0.0
410	Environmental Permits	0	ا ا	0	1 0	0	0	0	0	0	0	o	\$0.
411	Utilities	0	0	0	0	0	0	0	0	0	0	0	\$0.
	Roadway Design	0	0	0	0	0	0	0	0	0	0	0	\$0.
	Structures Design	0	0	0	0	0	0	0	0	0	0	o	\$0.
414	Drainage Design	0	0	0	0	0	0	0	0	0	0	0	\$0.0
415	Roadway Lighting	0	0	0	0	0	0	0	0	0	0	0	\$0.0
416	Traffic Engineering	0	0	0	0	0	0	0	0	0	0	0	\$0.0
417 & 418	Signal & Pav't Marking Plans	0	0	0	0	0	0	0	0	0	0	0	\$0.0
419	Right-of-Way Surveys	0	0	0	0	0	0	0	0	0	0	0	\$0.0
420	Cost Estimates	0	0	0	0	0	0	0	0	0	0	0	\$0.0
421	Speical Provisions and Specifications	0	0	0	0	0	0	0	0	0	0	0	\$0.0
422	Fiber Optic Network (FON)	0	0	0	0	0	0	0	0	0	0	0	\$0.0
423	Toll Plazas	0	0	0	0	0	0	0	0	0	0	0	\$0.0
424	Post Design Services	0	38	43	47	56		4	0	0	0	188	\$8,336.7
700	Administration	0	0	0	0	0		0	0	0	0	0	\$0.0
	TOTAL MANHOURS	0		43	47	56	0	4	0	0	U Balanin izbotu delektr	188	\$8,336.7
	WAGE RATES	74.4	\$72,49	\$53.63	\$33,60	\$30,30						N/A	N/A
	TOTAL DIRECT COSTS	\$0.00	\$2,754.62	\$2,306.09	\$1,579.20	\$1,696.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A	\$8,336.7
		0.0%	20.2%	22.9%	25.0%	29.8%		2.1%	0.0%	0.0%	0.0%	100.0%	
							Salary Relate						
							Total Activity	Salary Costs				\$8,336.71	
							Post Design L	abor Multiplie	r	205.00%		\$17,090.26	
							•	-	ed Costs (Limi	iting Amount)	_	\$25,426.97	
							5 5 . 5 . 5 . 5	J		······ B · · · · · · · · · ·		,,	
			\$44.34				Subconsultar						
			3.05				Design Survey					\$0.00	
			\$135.25				Ardaman & A	ssociates				\$0.00	
							Nadic Engine	ering Services				\$0.00	
			\$135.25				RS&H					\$0.00	
			Ф1 <i>33.</i> 23					->					
							C3TS (Stante	(ت				\$25,426.97	
							WBQ					\$0.00	
							Southeastern	Survey			_	\$0.00	
								-	(Limiting An	nount)	•	\$25,426.97	
							GRAND TO	AL (Maximu)	m Limiting An	nount)		\$25,426.97	

Stantec

Project Number: 253F CFX Contract No.: 000818 DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 6)

County

HIGHWAY TASK LIST

			HIGHWAY			
Task No.	Task Description	Units	Number of Units	Hours per Unit	Total Hours	Comments
	24.1 P	re-Bid Activ	vites			
24.1.1	Pre-Bid Meeting	LS	0	0	0	
24.1.2	Addendum Preparation	LS			0	
	24.1 Pre-Bid Act	ivites Subto	tal		0	
	24.2 Req	uest for Info	mation			
24.2.1	Roadway	EA			0	
24.2.2	Drainage	EA			0	
24.2.3	Lighting	EA			0	
24.2.4	ITS	EA			0	
24.2.5	Structures	EA	10	4	40	
	24.2 Request for Inf	ormation Su p Drawing F			40	
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	12	4	48	SIP 3, MSE 4, Sheetpile 2, temporary bracings 3
	24.3 Shop Drawing	Review Sub	ototal		48	
	24.4	Plan Revisio	ons			
24.4.1	Plan Revisions	EA	8	4	32	
24.4.2	As-Built and Record Drawing		1	20	20	
	24.4 Plan Revis				52	
Articles.		gement and				project coordinations
24.5.1	Coordination	LS LS	1	12	12 16	4 visits at 4 hrs
24.5.2 24.5.3	Field Visits Meetings	EA	5	4	20	team meetings
	24.5 Management and				48	
					188	
	The second secon					

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

State Road 417 Orange 417-253F Consultant Name: WBQ Design & Engineering, Inc.

Date: 9/30/2015 Estimator: Troy Vargas

Total Staff	Bustant	011.4			· · · · · · · · · · · · · · · · ·	Project	<u> </u>	T		Staff Classi-	Staff Classi-	Staff Classi-	SH	Salary	Average
Hours From	Project Manager	Chief Engineer	not used	not used	Sr. Engineer	Engineer	Engineer	not used	Clerical	fication 10	fication 11	fication 12	By	Cost By	Rate Per
"SH Summary -	\$86.99	\$63.13	\$0.00	\$0.00	\$48.05	\$33.17	\$27.90	\$0.00	\$23.24	\$0.00	\$0.00	\$0.00	Activity	Activity	Task
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247	25	173	0	0	25	20	0	0	4	0	0	0	247		
	\$2,174.75	\$10,921.49	\$0.00	\$0.00	\$1,201.25	\$663.40	\$0.00	\$0.00	\$92.96	\$0.00	\$0.00	\$0.00		\$15,053.85	\$60.95

Page 1 of 1

Survey Field Days by Subconsultant 4 - Person Crew:

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.

					Check =	\$15,053.85	
SALARY RELAT	ED COSTS:						\$15,053.85
OVERHEAD:			209.040%				\$31,468.57
OPERATING MA	ARGIN:		25.500%				\$3,838.73
FCCM (Facilities	Capital Cost Mo	ney):	0.000%				\$0.00
EXPENSES:			0.000% 4-man crew				\$0.00
Survey (Field - if	by Prime)	0	days @	\$	-	/ day	\$0.00
SUBTOTAL EST	TIMATED FEE:						\$50,361.15
Subconsultant:	Sub 1						\$0.00
SUBTOTAL EST	TIMATED FEE:						\$50,361.15
Geotechnical F	ield and Lab Te	esting					\$0.00
SUBTOTAL EST	TIMATED FEE:						\$50,361.15
Optional Service	s						
GRAND TOTAL	ESTIMATED FE	E:	Post Design I	Viultipi	ier 3.35		\$50,361.15

WBQ Design & Engineering, Inc.

Project Number: 253F

CFX Contract No.: 000818

DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 6)

County

HIGHWAY TASK LIST

			nignwai	TASK LIS	l	
Task	Task Description	Units	of	per	Hours	Comments
No.	-		Units	Unit		
	24.1 P	re-Bid Activ	ites			
24.1.1	Pre-Bid Meeting	LS			0	
					•	
24.1.2	Addendum Preparation	LS			0	
	24.1 Pre-Bid Act				0	
		est for Infor		and a conference of the consequence		
24.2.1	Roadway - MOT	EA	14	4	56	
24.2.2	Drainage	EA			0	
24.2.3	Lighting	EA			0	
24.2.4	ITS	EA			0	
24.2.5	Structures	EA			0	
	24.2 Request for Infe				56	
	24.3 Sho	p Drawing R	eview			
24.3.1	Roadway	EA	4	4	16	
24.3.2	Drainage	EA			0	
24.3.3	Lighting	EA			0	
24.3.4	ITS	EA			0	
24.3.5	Structures	EA			0	
	24.3 Shop Drawing	Review Subt	total		16	
	24.4	Plan Revisio	ns			
24.4.1	Plan Revisions	EA	4	20	80	
24.4.2	As-Built and Record Drawings	LS			0	
	24.4 Plan Revis	ions Subtotal			80	
		gement and N	Meetings	manage of the second second		
24.5.1	Coordination	LS	1	15	15	
24.5.2	Field Visits	LS	6	8	48	
24.5.3	Meetings	EA	4	8	32	2 people at 4 hrs
	24.5 Management and	Meetings Su	ıbtotal		95 247	
			-			

SUPPLEMENTAL AGREEMENT NO. 5

TO

AGREEMENT FOR PROFESSIONAL SERVICES FINAL DESIGN

SR 408 / SR 417 ULTIMATE INTERCHANGE IMPROVEMENTS

THIS SUPPLEMENTAL AGREEMENT is made and entered into this _______day of _______, 2015, 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 the "AUTHORITY" and the consulting firm of URS CORPORATION SOUTHERN. of Orlando, Florida, hereinafter called the "CONSULTANT".

WHEREAS, Articles 2.00 and 12.0 of the Agreement for Professional Services between the AUTHORITY and the CONSULTANT, dated the 14th Day of November 2011, provides that in the event that the AUTHORITY shall change the amount of work in Exhibit A 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:

- The AUTHORITY hereby authorizes the CONSULTANT to proceed with additional services as outlined in the CONSULTANT'S October 20, 2014 correspondence to the AUTHORITY, which is attached hereto and made a part of this Supplemental Agreement.
- 2. Exhibit "B", Article 2.00 of the Agreement for Professional Services is amended as follows:
 - a. The Salary related costs are adjusted upwards by \$30,748.92 to \$3,565,078.07.
 - b. Direct Expenses remain unchanged at \$108,894.65.
 - c. The Field Survey costs remain unchanged at \$173,943.53.
 - d. The Subcontract Items remain unchanged at \$1,961,132.54.
 - e. The Allowance is adjusted downward to \$0.
 - f. The total Maximum Limiting Amount remains unchanged at \$5,809,048.79.
- 3. 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

Attest Assistant Secretary

URS CORPORATION SOUTHERN

Attest:

Print Name: GARFIELD L. FOSTER

Citle:

Title: VICE PRESIDEN

Approved as to form and execution only.

General Counsel for the AUTHORITY

Z:\253F\Supplemental Agreements\URS-253F - SA5.docx

URS

October 20, 2014

Mr. Glenn Pressimone, P.E. CFX Project Manager Central Florida Expressway Authority 4974 ORL Tower Road Orlando, FL 32807

RE:

SR 417/SR 408 Ultimate Interchange Improvements

CFX Project # 253F Contract # 000818

Contract Amendment No. 3 Request - Additional Information

Dear Glenn:

Per your request, I am providing additional information pertaining to the Contract Amendment No. 3 request.

A summary of the remaining fees on this contract and those being requested for CA No. 3 can be found on the attached CA No. 3 Fee Estimate. In review of the remaining fees to complete the Phase 1 Final plans, URS and WBQ will require addition funds. All other subs will have minor to no additional effort. RS&H does have a moderate amount of work to produce these plans. I have attached their fee estimate to produce the Phase 1 plans which is within their remaining fee.

I have also attached a revised request for Contract Amendment No. 3 Fee estimate which deducts the remaining labor fees for URS and WBQ.

Should you have any questions, please do not hesitate to contact me at (407) 422-0353.

Sincerely,

URS Corporation

Stephen Noppinger, P.E.

Project Manager

Enclosures

CENTRAL FLORIDA EXPRESSWAY AUTHORITY **URS** Corporation Project Number: 253F CFX Contract No.: 000818 DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 3) **Orange County** Contract Allowance. Final SA*3 did not Summary of Remaining Fees and Contract Amendment Fee transfer Allowarre to URS. Firm Contract Fee Invoiced Fée Remaining Phase 1 Cost | CA #3 Request Comment URS (Labor only wihtout survey) \$3,376,515.85 \$3,333,940.09 \$42,575.76 \$222,738.42 \$180,162.66 WBQ \$685,768.16 \$678,379.36 \$7,388.80 \$84,702.68 \$77,313.88 RS&H \$279,304.38 \$252,592.73 \$26,711.65 \$18,322,75 \$0.00 Phase 1 Effort to be completed within remaining fee. Stantec (C3TS) \$455,002,80 \$429,247.75 \$25,755.05 \$0.00 Phase 1 Effort to be completed within remaining fee. Nadic \$221,049.39 \$208,824.13 \$12,225.26 \$0.00 Phase 1 Effort to be completed within remaining fee. Southeastern \$56,963.26 \$50,749.01 \$6,214.25 \$0.00 Phase 1 Effort to be completed within remaining fee. Ardaman \$178,638.96 \$177,168.32 \$1,470.64 \$0.00 Phase 1 Effort to be completed within remaining fee. Subtotal \$257,476.54 Expenses (URS) \$1,572.25 TOTAL \$259,048.79

18 WJG 15 PHI 2:54

SUPPLEMENTAL AGREEMENT NO. 4

TO

AGREEMENT FOR PROFESSIONAL SERVICES

FINAL DESIGN

SR 408 / SR 417 ULTIMATE INTERCHANGE IMPROVEMENTS

THIS SUPPLEMENTAL AGREEMENT is made and entered into this ______ day of _______, 2015, 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 the "AUTHORITY" and the consulting firm of URS CORPORATION SOUTHERN. of Orlando, Florida, hereinafter called the "CONSULTANT".

WHEREAS, Articles 2.00 and 12.0 of the Agreement for Professional Services between the AUTHORITY and the CONSULTANT, dated the 14th Day of November 2011, provides that in the event that the AUTHORITY shall change the amount of work in Exhibit A 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. The AUTHORITY hereby authorizes the CONSULTANT to proceed with additional services as outlined in the CONSULTANT'S August 11, 2015 correspondence to the AUTHORITY, which is attached hereto and made a part of this Supplemental Agreement.
- 2. Exhibit "B", Article 2.00 of the Agreement for Professional Services is amended as follows:
 - a. The Salary related costs are adjusted upwards by \$8,399.56 to \$3,534,329.15.
 - b. Direct Expenses remain unchanged at \$108,894.65.
 - c. The Field Survey costs are adjusted downward by \$15,491.27 to \$173.943.53.
 - d. The Subcontract Items are adjusted upward by \$7,091.71 to \$1,961,132.54.

• WBO \$2,334.35

• RS&H \$4,757.36

- e. The Allowance remains unchanged at \$30,748.92.
- f. The total Maximum Limiting Amount remains unchanged at \$5,809,048.79.
- 3. 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

Director of Procureme

URS CORPORATION SOUTHERN

Attest: Harret H. Storms

Print Name: Harriet 4. Storms

Title: Vick

VICE PICESIBENA

Approved as to form and execution only.

General Counsel for the AUTHORITY



August 11, 2015

Mr. Glenn Pressimone, P.E. CFX Project Manager Central Florida Expressway Authority 4974 ORL Tower Road Orlando, FL 32807

RE: SR 417/SR 408 Ultimate Interchange Improvements

CFX Project # 253F Contract # 000818

Contract Amendment No. 4 Request - Bid Set Update - REVISED

Dear Glenn:

This is a request for a zero dollar contract amendment to incorporate the most current CFX design standards within the Bid Set. This effort includes:

- 1. Including shoulder gutter at those locations where only guardrail had been called out. Based on conversations with you and Scott Kamien, only the location along SR 417 (right) from station 460+40 to 467+92.5 will be modified. Other locations are to cost prohibited or are temporary conditions. This item will include the revision of the drainage system, cross sections, plan views, quantities, and drainage structure and sections.
- 2. Revise traffic control plans to reflect change in construction above.
- 3. Include pavement arrow markings at approaches to ramp exits.
- 4. Revised sign panels to include the Toll Shield (yellow/black) on appropriate signs.

Attached is the Fee Estimate for this activity. It is requested that funding from URS survey be reallocated as shown below.

Firm	Contract Amend 4
URS	\$8,399.56
WBQ	\$2,334.35
RS&H	\$4,757.36
Total	\$15,491.27

Should you have any questions, please do not hesitate to contact me at (407) 422-0353.

Sincerely,

URS Corporation

Stephen Noppinger, P.E.

Project Manager

URS Corporation

315 East Robinson Street, Suite 245

Orlando, FL 32801-1949

Tel: 407.422.0353 Fax: 407.423.2695

Project Number: 253F

DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 4)

URS Corporation
CFX Contract No.: 000818

	100				SUMMARY FEI	SHEET		200, 200 00000						·
CONTRACT	ACTIVITY	Project	Deputy	Senior	Project Engineer	Engineer	Senior	Clerical	Sr. Surveyor	Surveyor &	Survey	Total	Total	Avg.
SECTION	MANHOURS	Manager	PM	Engineer	Project Engineer		Technician	Cierical	& Mapper	Mapper	Technician	Manhours	Cost	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,	Ò	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	1
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		\$0,00	
411	Utilities	0	0	0	0	0	. 0	0	0	0	0	1	\$0,00	
412	Roadway Design	2	2	7	11	7	5	3	0	0	0	37		\$44,72
413	Structures Design	0	0	0	0	0	0	0	0	0	0		\$0.00	\$44.24
414	Drainage Design	2	2	6	11	8			0	0	0	38		
415	Roadway Lighting	0	0	0	0	0	0	•	0	0	0		\$0.00	
416	Traffic Engineering	0	0	0	0	0	0	0	0	0	9	1	\$0.00	
417 & 418	Signal & Pav't Marking Plans	0	0	0	0	0	0	0	0	0	0	1	\$0.00	
419	Right-of-Way Surveys	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		\$0.00	
421	Speical Provisions and Specifications	0	0	0	0	0	0	0	0	0	0	9	\$0.00	
422	Fiber Optic Network (FON)	0	0	0) 0	0	0	0	0	0	9		\$0,00	
423	Toll Plazas	0	0	0	0	0	0	0	0	0	0		\$0,00	
424	Post Design Services	0	0	0	0	0	0	0	0	0	0	9	\$0.00	
700	Administration	0	0	0	0	0	0	. 0	0	0	0	1	00,00	1
•	TOTAL MANHOURS	4	4	13	22	15	13	4	0	0	0	75	5	
	WAGE RATES	\$86.24	\$55.36	\$61.78	\$41.40	\$30.11	\$37,92	\$27.72	\$52,16	\$30.80	\$30.80			
	TOTAL DIRECT COSTS	\$344.96	\$221.44	\$803.14	\$910.80	\$451.65	\$492.96	\$110.88	\$0.00	\$0.00	\$0.00	N/A	\$3,335.83	

Total Activity Salary Costs		\$3,335,83
Overhead Activities	124.82%	\$4,163.78
Subtotal Salary Related Costs (L		\$7,499.61
Operating Margin (Fixed Fee)	12.00%	\$899.95
Expenses		
Direct Reimbursables (Out-of-Pocket)		\$0.00
Permit Fees		\$0.00
Subtotal Expenses (Lump Sum)		\$0.00
Subtotal URS		\$8,399.56
Subconsultants		
WBQ		\$2,334.35
RS&H		\$4,757.36
Subtotal Subconsultants (Limiting	Amount)	\$7,091.71
Fee Estimate for Amendment 4		\$15,491.27
Fee Estimate for Amendment 4 Remaining URS Survey Fee		\$15,491

GRAND TOTAL (Maximum Limiting Amount)

\$15,491.27

CENTRAL FLORIDA EXPRESSW	AY AUT	HORITY					URS Corporation
Project Number: 253F							CFX Contract No.: 000818
DESCRIPTION: SR 408/SR 417 Ultimat	e Intercha	age (CO	NTRACT.	AMENDME	NT NO. 4)		
Orange County							
		HIGHWA	Y TASK L	IST			
Governmental Agencies & Public Meetings							
Section 402 & 409							
	Basis	Number	Hours	Number	Total	CADD	
Task	of	of	per	of	Hours	Hours	Remarks
	Estimate	Units	Unit	Sheets		%	
Coordination w/ FDOT	LS			N/A	0		
Coordination w/ City of Orlando	LS			N/A	0		
3. Coordination w/ Orange County	LS			N/A	0		
4. Coordination w/ SJWMD	LS			N/A	0	enn	
5. FDEP	LS			N/A	0	·····	
Public Meetings	EA			N/A	0		
7. Neighborhood Assoc. Meetings	EA			N/A	0:		
8. Authority Meetings	EA	••••		N/A	0		
9. City of Orlando Meetings	EA			N/A	0		<u></u>
10. Orange County Meetings	EA			N/A	0		
11. Preparation of Rdway/Bridge Exhibits	EA	1		N/A	0		
12. Other Agency Coordination & Meeting	LS			N/A	0		
TOTAL				**************************************	0		

	Basis	Number	Hours	Number	Total	CADD	
Task	of	of	per	of	Hours	Hours	Remarks
	Estimate	Units	Unit	Sheets		%	
Pre-App Coord with CFX & RS&H	LS			NA	Ö		
Prepare ERP Application	LS			N/A	0		
RAI Response	LS			N/A	0		
. Астіа Мар	EA			0	. 0		
Prepare Local Permits	LS			N/A	0		
Landowner Addresses	LS			N/A	0		
Mitigation Plans	Sheet				0		
SUBTOTAL				0	0	o	
. Quality Control	5%	1	N/A	N/A	0"		
. Supervision	5%	1	N/A	N/A	0		
. Preliminary Field Review	EA	1	0	N/A	0		
. Agency Field Review	EA	1	0	N/A	0		
2. Agency Pre-App Meeting	EA	1	0	N/A	0		

URS Corporation

Project Number: 253F

DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 4) Orange County

CFX Contract No.: 000818

HIGHWAY TASK LIST

Roadway Design

Section 412

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours %	Remarks
Typical Section Package	LS			N/A	0		
2. Access Management	LS		Ĭ	N/A	0		
3. Horizontal /Vertical Master Design Files	LS			N/A	0		
4. Design Variations and Exceptions	LS			N/A	0		
5. Key Map	Sheet			1	0		
6. Typical Sections	Sheet			22	0		
7. General Notes	Sheet				0		
Summary of Quantities	Sheet	9	0.5	9	5	in the sales	
9. Project Layout	Sheet				0		
10. Roadway Plans	Sheet	3	2	3	6		
11. Roadway Profiles	Sheet	1	4	1	4		<u> </u>
12. Cross Street Plan-Profile	Sheet				Ö		
13. Special Profiles	Sheet				0		
14. Interchange Layout	Sheet				0		
15. Intersection Detail	Sheet				0		
16. Ramp Terminal Details	Sheet				0		
17. Misc. Construction Details	Sheet				0		
18. Cross Section Design Files	LS	1	6	N/A	6		
19. Cross Section Pattern	Sheet				0		
20. Roadway Soil Survey	Sheet			A. K	0		
21. Roadway Cross Sections	EA	8	0,2	8	2		
22. Baseline Control/Curve Data	Sheet				. 0		
23. Computation Book & Quantities	LS	1	8	N/A	8		
24. Summary of Pay Items	LS	1	2	N/A	2		
SUBTOTAL				44	33	0	
25. Quality Control	5%	1	N/A	N/A	2		
26. Supervision	5%	1 1	N/A	N/A	2		
27. Field Reviews	EA	_		N/A	0		
28. Technical Meetings TOTAL	EA	L		N/A	0 37	10	

URS Corporation

Project Number: 253F

CFX Contract No.: 000818

DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 4)

Orange County

HIGHWAY TASK LIST

Drainage Design

	_	•
Secti	on 414	

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours %	Remarks
Determine Base Clearance Elev	Per Loc.	0	0	N/A	0		
2. Pond Siting Analysis & Report	Per Basin			N/A	0		
3. Design of Cross Drains	EA	1	8	N/A	8		Re-examine and revise calculations
4. Design of Roadway Ditches	Ditch/Mile	0.25	20	N/A	5		
5. Design of Outfalls	EA	0		N/A	0		The spanic value of the spanic
6. Design of Pond	EA			N/A	0		
7. Design of Ditch Treatment	Per System	0	0	N/A	0		
8. Design of Flood Plain Comp Area	EA	0	0	N/A	0		
9. Design of Storm Drains	EA	3	3	N/A	9		
10. Optional Culvert Material	LS	0	0	N/A	0		
11. French Drain Systems	Per 1K Ft	0	0	N/A	0		
12. Drainage Wells	EA	0	0	N/A	0		
13. Drainage Design Doc Report	LS	1	8	N/A	8		
14. Bridge Hydraulic Report	EA	0	0	N/A	0 .		

CENTRAL FLORIDA EXPRESSW. roject Number: 253F DESCRIPTION: SR 408/SR 417 Ultimate			NTRACT A	AMENDME	:NT NO. 4)	URS Corporation CFX Contract No.: 000818						
Orange County HIGHWAY TASK LIST												
15. Drainage Map	Sheet	1	2	1	2.							
16. Interchange Drainage Map	Sheet	0	0	N/A	0							
17, Summary of Drainage Structures	Sheet	1	2	1	2							
18. Optional Pipe/Culvert Material	Sheet	0	0	N/A	0							
19. Drainage Structure Sheet	EA			N/A	0							
20. Misc Drainage Details	Sheet	0	. 0	N/A	0							
21. Lateral Ditch Plan-Profile	Sheet	0	0	N/A	0							
22. Lateral Ditch Cross Sections	EA	0	0	N/A	0							
23. Retention/Det Pond Details	Sheet		t gt comp	4	0							
24. Pond Cross Sections	EA			7	0							
25. Erosion Control Plan	Sheet			0	O .							
26. SWPPP	Sheet			. 0	0	annual control						
27. Summary of Pipe Desilting	Sheet			1	0							
28. Bridge Deck Spread and Downspout De	LS	0	.0	0,	0							
SUBTOTAL				14	34							
29. Quality Control	5%	1	N/A	N/A	2							
30. Supervision	5%	1	N/A	N/A	2							
31. Field Reviews	EA		Kadin and American	N/A	0	S						
32. Technical Meetings	EA		11.11	N/A	0							
TOTAL				14	38							

Project Number: 253F DESCRIPTION: SR 408/SR 417 Ultim	CENTRAL FLORIDA EXPRESSWAY AUTHORITY roject Number: 253F DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 4) Orange County HIGHWAY TASK LIST											
Roadway Lighting		HIGHWA	Y TASK LL	SI								
Section 415	· · · · · · · · · · · · · · · · · · ·											
Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours %	Remarks					
Lighting Justification Report	EA			N/A	6		1					
2. Voltage Drop Calculations	LS			NVA	0		Analysis and Voltage drop calculations for both feeder and branch circuits for Phase I.					
3. Reference & Master Design Files	LS			N/A	0		Updating master Lighting design file to reflect Phase I design.					
4. Temporary Lighting Analysis	LS			NA	0							
5. Design Documentation	LS			N/A	0		documentation on a CD ROM and providing with all Cad files for final submittal package. Includes hours for new lighting photometrics and print-					
6. Key Sheet	Sheet			o	0		Revise Key with new sheet numbers remove OOCEA reference, update CFX board members.					
7. Summary of Pay Items	Sheet			0	0							
8. Tabulation of Quantities	Sheet			0	0		Revise and edit					
9. General Notes/Pay Item Notes	Sheet			0	0		Revise and edit					
10. Pole Data	Sheet			0	0	,	Remove and recrise pore dain tables for					
11. Service Point Details	Sheet			o	0		Revise per Phase I design plus new detail					
12. Project Layout	Sheet			0	0	grahalifer	NA.					
13. Plan Sheet	Sheet			0	0		Revise per Phase I design.					
14. Special Details	Sheet		*********	0	O I		Ramp Flashing Beacon modification					
15. Temporary Lighting Data & Detail	Sheet			0	0.		NA .					
SUBTOTAL				0	0							
16. Quality Control	5%	1	N/A	N/A	0							
17. Supervision	5%	1	N/A	N/A	0							
18. Field Review	EA			N/A	0		1 Field Visit - 1 person/8hrs.					
19. Coordination with Utility Company	LS			NA	0		3					

TOTAL

Project Number: 253F DESCRIPTION: SR 408/SR 417 Ulti	SCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 4) Orange County HIGHWAY TASK LIST												
Cost Estimates	ENVILABAS I UNINI AZIMININI			<u> </u>									
Section 420													
	Basis	Number	Hours	Number	Total	CADD							
Task	of	of	рет	of	Hours	Hours	Remarks						
the state of the s	Estimate	Units	Unit	Sheets		%							
1. Initial Setup	LS			N/A	0								
2. 30% Construction Cost Est.	LS			N/A	. 0								
3. 60% Construction Cost Est.	LS			N/A	. 0								
4. 90% Construction Cost Est.	LS			N/A	. 0								
5. 100% Construction Cost Est.	LS			N/A	0								
6. Pre-Bid Construction Cost Est.	LS			N/A	0								
7. Final Construction Cost Est.	LS			N/A	0								
SUBTOTAL				0	0	0							
6. Quality Control	5%	1	N/A	N/A	0								
7. Supervision	5%	1	N/A	N/A	0								
TOTAL		I		0	0	0							

19 19 19 19 19 19 19 19 19 19 19 19 19 1	Basis	Number	Hours	Number	Total	CADD	
Task	of	of	per	of	Hours	Hours	Remarks
	Estimate	Units	Unit	Sheets		%	
1. Roadway	LS			N/A	0		
2. Drainage	LS			N/A	0		
3. Structures	LS			N/A	0		
4. Signing & Pavement Marking	LS			N/A	0		
5. Signalization/FON	LS			N/A	0		
SUBTOTAL				0	0	0	
6. Quality Control	5%	1	N/A	N/A	0		
7. Supervision	5%	1	N/A	N/A	0		
TOTAL							· · · · · · · · · · · · · · · · · · ·

Orange County

Project Number: 253F

DESCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 4)

URS Corporation

CFX Contract No.: 000818

HIGHWAY TASK LIST

Fiber Optic Network (FON)

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours %	Remarks
1. ITS Analysis	LS			N/A	. 0		
2. Communications Plan Analysis	LS			N/A	. 0		
3. Lightning Protection Analysis	LS			N/A			
4. Power Subsystem	LS			N/A	0		
5. Voltage Drop Calculations	LS			N/A	0		
6. Design Documentation	LS			N/A	0		
7. Existing ITS System	LS			N/A	0		
8. Queue Analysis	LS			N/A	0		
9. Reference and Master ITS Design File	LS			N/A	0		
10. Reference and Master Communications Design File	LS			N/A	0		
11. Pole Elevation Analysis	LS			N/A	0		
12. Sign Panel Design Analysis	LS			N/A	0		
13. Quantities	LS				0		
14. Cost Estimate				N/A	0		
15. Technical Special Provisions				N/A	0		
16. Other ITS Analysis				N/A	0		
17. Key Sheet	Sheet			0	0		
19. Tabulation of Quantities	Sheet			0	0		
20. General Notes	Sheet			O	0		
21. Project Layout	Sheet			0	0		
22. Typical and Special Details	Sheet			0	0		
- mendment 4 - URS Fee - Bid Revisions Revis	ed 7-23-15.x	ax	October 10,	2014			

Project Number: 253F DESCRIPTION: SR 408/SR 417 Ultimat	ENTRAL FLORIDA EXPRESSWAY AUTHORITY oject Number: 253F SCRIPTION: SR 408/SR 417 Ultimate Interchange (CONTRACT AMENDMENT NO. 4) Orange County											
Orange County												
23. Plan Sheet	Sheet			O	0							
24. ITS Communications Plans	Sheet		· · · · · · · · · · · · · · · · · · ·	0	0	······································						
25. Fiber Optic Splice Diagrams	EA			0	0							
26. Lightning Protection Plans	EA		A service and	o	0							
27. Cross Sections	EA			0	0							
28. Guide Sign Work Sheet	EA			0	0							
29. Speical Service Point Details	EA			0	0.							
30. Strain Pole Schedule	PI			0	0	· · · · · · · · · · · · · · · · · · ·						
31.Overhead / Cantilever Sign Structures	EA			0	0							
32, Other Overhead Sign Structures (Long Span, Monotube, etc.)	EA			0	0							
33. Temporary FON	EA			0	0	and the second s						
34. Interim Standards	LS			0		****						
SUBTOTAL				0	0							
35. Quality Control	5%	1	N/A	N/A	0							
36. Supervision	5%	1	N/A	N/A	0	The state of the s						
37. Power Company Coord.	LS			N/A	0							
38. Technical Meetings	EA			N/A	0							
39. Field Review	EA		***************************************	N/A	0							
TOTAL				1		1						

The second section is a second of the second second

ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY

WBQ Design & Engineering OOCEA Contract No.: 000818

Project Number: 253F

DESCRIPTION: SR 408/SR 417 Ultimate Interchange - Phase I

					SUMMARY FEE S	REET (SUBCONS	IILTANT - WBQ)	Tanas a cientina a como e		a deniar				
CONTRACT		Project Manager	Chief Barringer	Senior Engineer	Project Engineer	Engineer		Clerical	Sr. Surveyor	Surveyor &	Survey	Total	Total	Ave.
SECTION		1 toject Manager	Cinei Engineei	Schot Englised	1 reject Engineer	radinen		CARICA	& Mapper	Mapper	Technician	Manhours	Cost	Rate
			Ø	0	Ø	0	0	0	0.	3	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	O	0	0	0	0	0	0	0	\$0.00	1 1
405	Geotechnical Investigation	0	0	0	0	0	0	0	0.	0	0	0	\$0,00	1 17
406	Contemination Impact Analysis	0	0	0	0	0	0	0	0	9	Q	0	\$0,00	1 1
407	Pavement Design	0	0	0	0.	0	0	0	0	0	0	0	\$0,00	1 !!
408	Borrow Pits	0	0.	.0.	0	0	0	0	0	0	0	Q.	\$0.00	1 !!
410	Environmental Permits	0	0	0	0	0	0	U	Ø	0	.0:	0	\$0.00	1 1
411	Utilities	.0	0	0	Ö	0	Q	.0	0	-0	0	0.	00.02	1 1
412	Rosdway Design	0	.0	0	Ó	.0	0	.0	O:	.0	.0	0	\$0,00	1 17
413	Structures Design	0	0	0	Ö	-0	Ď.	0	Ø.	0	0.	0	\$0,00	1 1
414	Drainage Design	.0:	0	0	0	0	0	O	0		Ö	Q Q	\$0,00	1 1
415	Roadway Lighting	0	0	0	Ö	0	0	0	Ö	0	0	. 0	20,00	1 1
416	Traffic Engineering	1	2	5	4	4	0	.0	Ø	0	0	16	\$697,78	\$43,61
417 & 418	Signal & Pav't Marking Plans	0	0	Ö	Ö	0	0	Ö	0	0	0	o	\$0,00	1 1
419	Right-of-Way Surveys	0	0	0	0	0	Ö	0	Q.		0	0	00,00	1 1
420	Cost Estimates	:O-	0	0	,	0	0	Ö	0.	0.	0	.0	\$0,00	1 1
421	Speical Provisions and Specifications	0	0	0	0	0	٥	0	o	0	0	Ö	\$0.00	1 1
422	Fiber Optic Network (FON)	0	0	0.	,0	0	0	.0	0	0	0	0	\$0.00	1 1
423	Toli Piazas	.0	0	0	o.	0	0	D	. 0	0	0.	0	\$0.00	1 1
424	Post Design Services	0	0	0	0	0	0	0	0	.0	O.	0	00.00	1
700	Administration	0	0	0	0	0	0	0	0	0	0:	. 0	\$0.00	
	TOTAL MANHOURS	1	2	5	4	4	0	0	0	0	0	16	\$697.78	\$43.61
	WAGE RATES	\$86.99	\$63.13	\$48.05	\$33.17	\$27,90	\$0.00	\$23,24	\$0.00	\$0.00	\$0.00	N/A	N/A	
	TOTAL DIRECT COSTS	\$86.99	\$126,26	\$240.25	\$132,68	\$111.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A	\$697.78	

Salary Related Costs		
Total Activity Salary Costs		\$697,78
Overhead Activities	209.04%	\$1,458.64
Subtotal Salary Related Costs (L	imiting Amount)	\$2,156.42
Operating Margin (Fixed Fee)	25.50% **	\$177.93
**(Equivalent Lump Sum for Operating	Margin 8.26%)	
Expenses		
Direct Reimbursables (Out-of-Pocket)		\$0.00
Permit Fees		\$0,00
Subtotal Expenses (Lump Sum)		\$0.00
Subconsultants		
		\$0.00
Subtotal Subconsultants (Limiting	Amount)	\$0.00
WBQ TOTAL (Maximum Limiting An	nount)	\$2,334,35

	Basis	Number	Hours	Number	Total	CADD	
Task	of	of	per	of	Hours	Hours	Remarks
	Estimate	Units	Unit	Sheets	-	%	
1. Traffic Data Collection	LS	o	0	N/A	0		
			.a				
2. TCP Design Analysis	LS	0	0	N/A	0		
3. Temp Drainage Analysis	LS	o	o	N/A	0		
4. Master TCP Design Files	LS	0	0	N/A	0		
4. TCP Cross Sections (x-sections)	Sheet	4	0.25		1	:	
4. Tel clos sections (x-sections)	Sheet	7	0.23	1	1		Manual mark and a second
5. General Notes/Const. Sequence	Sheet	1	1		1		
3. General Notes/Const. Sequence	Sueer	L	. 1	1			
	ŀ						
				1			
6. MOT Details	Sheet	0	0	0	0		
7. Tabulation of Quantities & Cost Est.	Sheet	0	0	0	0		
		i	:				:
			_				
8. TCP Plan Sheets	Sheet	4	3	4	12		
9. Phase Layout Detail	Sheet	0	0	0	0		
10. Temporary Signal	Sheet	, , , , , , , , , , , , , , , , , , ,		0	0		\$
					i i		
11. Detour Routing	LS	0	0	0	0		E
SUBTOTAL				6		::::::0	
Quality Control Supervision	5% 5%	1	N/A N/A	N/A N/A	1 1		
15. Bi-Weekly OOCEA meetings	LS	0	N/A 0	N/A	0		
6. Field Review	LS	0	0	N/A	0		
17. Coordination w/ City & County	LS	0	0	N/A	0		
8. Design Documentation	LS	0	0	N/A	0		E

	Phase 1 S.A. #1 Fee Estimate												RS&H	~
	Update S&PM Plans to Current CFX Stand	iards												
					SUMMARY FEE	SHEET								
CONTRACT		Project	Chief	Senior	Engineer	Engineering	Roadway	Clerical	Sr. Surveyor	Surveyor &	Sürvey	Total f	Total	Avg.
SECTION 402 & 409	MANHOURS Governmental Agencies & Public Meetings	Manager	Engineer	Engineer	Designer	Intern	Technician	Citical	& Mapper	Mapper	Technician	Manhours	Cost	Rate
402 22 409	Preliminary Design Report-Review					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		////						
404	Surveys and Mapping		į									ľ	į	
	Geotechnical Investigation	1	l											
406	Contamination Impact Analysis	1	ı										:	
407	Pavement Design						4							
408	Borrow Pits		ı		4							ľ		
410	Environmental Permits		1									1		
411	Utilities		-	l										
412	Roadway Design		1]			1		
	Structures Design		1						1	•			4	
414 415	Drainage Design	1	- 1											
	Roadway Lighting		1										1	
416 417 & 418	Traffic Engineering Signal & Pav't Marking Plans	.1	.1	ين	24.	22	_ 1							
417 2 418	Right-of-Way Surveys	4	0	0	18	18	.0	0	0	0	0	40	\$1,505.78	\$37,64
420	Cost Estimates		1									1	ı	
421	Speical Provisions and Specifications	1	: [1	
	Fiber Optic Network (FON)		:					:			ľ			
423	Toll Plazas		•											
	Post Design Services													
700	Administration											1		
	TOTAL MANHOURS	4	6	0	18	18	0	0	0	0	0	40	\$1,505.78	\$37.64
	WAGE RATES	\$69.32	\$67.37	\$57.44	\$39.33	\$28.92	00.00	\$22.04	\$0.00	\$0.00	\$0.00			
	TOTAL DIRECT COSTS	\$277.28	\$0,00	\$0.00	\$707.94	\$520.56	\$0.00	\$0.00	\$0.00	\$0,00	\$0.00		\$1,505.78	
							0	10.						
							Salary Relate							
							Total Activity	Salary Costs				\$1,505.78		
							Overhead Act	ivities		187.94%		\$2,829.96		
									ed Costs (Lim		,	\$4,335.74		
							Subtotal	Daiai y Meiai	eu Costs (Lilli	iting Amount,	,	34,333.74		
							Operating M	argin (Fixed	Fee)	28.00%		\$421.62		
							Frances							
							Expenses Direct Reimbi	readles (Out	of Booket)			£0.00		
								madules (Ont-	or-Locker)			\$0.00		
							Permit Fees					\$0.00		
							Subtotal E	Expenses (Lui	np Sum)		•	\$0.00		
								. •						

GRAND TOTAL (Maximum Limiting Amount)

\$4,757.36

Estimator: Gonzalez, R

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	0	0	0	ø	
20;2	Summary of Pay Items Including TRNS-Port Input		LS	0	0		0	
20.3	Tabulation of Quantities		LS	1	6		6	Update summary of quantities based on requested revisions
20,4	General Notes/Pay Item Notes		Sheet	0	0		0	
20,5	Project Layout	. Dunbida	Sheet	0	0		0	
20.6	Plan Sheet		LS	1	24		24	Update plans to change from PPRT to Thermoplastic
20,7	Typical Details		EA	1	4		4	Update Pavement Markings (Arrows approaching ramps)
20,8	Guide Sign Worksheet(s)		EA	1	4		4	Overlays for TM2 Route Shields
20,9	Traffic Monitoring Site		EA	0	0		0	
20.10	Cross Sections		EA	0	0		0	
20,11	Special Service Point Details		EA	0	0		0	
20.12	Special Details		LS	0	0		0	
20.13	Interim Standards		LS	0	0		0	
	Signing	and Paveme	ent Marking	Plans Techn	ical Subtota	0	38	
20,14	Quality Assurance/Quality Control		LS	%	5%		2	Employment and the control of the co
20.15	Supervision		LS	%	0%		0	
		20. Signir	ig and Pave	ment Marking	Plans Tota	0	40	

Copy of SA1 Back Up Documentation.xlsx 20. Signing & Marking Plans

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