CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO:

CFX Board Members

FROM:

Claude Miller

Director of Procurement

DATE:

November 17, 2015

RE:

Supplemental Agreement No. 6 for Atkins North America, Inc.,

Post Design Services for S. R. 429 (Wekiva Parkway) Systems Interchange

Project No. 429-204, Contract No. 000858

Board approval is requested for Supplemental Agreement No. 6 with Atkins North America, Inc., in the amount of \$1,115,000.00 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 CFX for this project.

Original Contract Amount	\$ 5	5,150,000.00
Amount of Supplemental Agreement No. 1	\$	145,000.00
Amount of Supplemental Agreement No. 2	\$	790,000.00
Amount of Supplemental Agreement No. 3	\$	0.00
Amount of Supplemental Agreement No. 4	\$	0.00
Amount of Supplemental Agreement No. 5	\$	0.00
Amount of This Supplemental Agreement	<u>\$ 1</u>	,115,000.00
Total Revised Contract Amount	\$ 7	,200,000.00

SUPPLEMENTAL AGREEMENT NO. 6

TO

AGREEMENT FOR PROFESSIONAL SERVICES POST DESIGN SERVICES (FOR 429-204)

S.R. 429 (Wekiva Parkway) Systems Interchange

	THIS SUPPLEMENTAL AGREEMENT is made and entered into this	day
of	, 2015, by and between the CENTRAL FLORIDA EXPRESSWA	Y
AUTHO	ORITY (F/K/A ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY), at	n
agency	of the State of Florida, hereinafter called the "AUTHORITY" and the consulting firm	of
HNTR	CORPORATION, hereinafter called the "CONSULTANT."	

WHEREAS, Section 4.27 of Exhibit "A" of the Agreement for Professional Services between the AUTHORITY and the CONSULTANT, dated the 27th day of June 2012 provides that after completion of the services outlined in Exhibit "A" for Project Number 429-204 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 Wekiva Parkway Corridor Consultant's correspondence to the AUTHORITY dated November 17, 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 Wekiva Parkway Corridor Consultant's correspondence to the AUTHORITY dated November 17, 2015. Direct expenses will be reimbursed for local travel only (per mile). The maximum fee for Post Design Services shall be \$1,115,000.00. This maximum fee includes an Allowance of \$2,705.18 to be approved for use by the CONSULTANT at the sole discretion of the AUTHORITY.
- 3. Section 4.27 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 quadruplicate, the day and year first above written.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

Witness:	By:
Assistant Secretary	Director of Procurement
	ATKINS NORTH AMERICA, INC
Witness:	By:
Print Name:	Print Name:
Title:	Title:

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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.

Exhibit "A"

Project 429-204 S.R. 429 (Wekiva Parkway) Systems Interchange

Post-Design Scope of Services (Section 4.27)

4.27 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.



CH2M 225 E. Robinson St Suite 505 Orlando, FL 32801 www.ch2m.com

Mr. Glenn Pressimone Central Florida Expressway Authority 4974 ORL Tower Road Orlando, FL 32807

November 17, 2015

Subject: Wekiva Parkway

Contract No. 000858 Project No. 429-204

Post-Design Services Supplemental Agreement

Dear Mr. Pressimone:

As the project transitions from Design to Construction, we have requested and received a Post-Design Services proposal for the above referenced contract. The consultant, Atkins North America (Atkins), has submitted a Post-Design Services amendment package to address the post-design services required since the Bid Package was submitted.

We have reviewed the attached proposal from Atkins, and have determined the proposal is consistent with the original contract terms, category rates and post design services multipliers. Atkins and their subconsultants have elected to request new billing rates consistent with current employee rates and their employee rosters are included with the package. The amendment addresses all anticipated scope of work.

The package submitted and reviewed is requesting a fee of \$1,112,294.82. It is our recommendation an amount of \$1,115,000.00 be submitted for approval to the Board in order to account for a contingency amount.

If you should have any questions or need additional information, please do not hesitate to contact me.

Regards, CH2M HILL

Scott L. Bear

Project Manager

cc: File (w/attached)

Atkins

Prime Consultant Wekiva Section 429-204 Post Design Fee Proposal

Date:

11/17/2015

Total Fee:

\$1,112,294.82

Central Florida Expressway Authority Post Design Services Summary Fee Sheet Weldva Parkway, Section 429-204

PRIME CONSULTANT: Atkins

	Projec	t Manager	Chie	f Engineer	Senior En	gineer III & IV	Senior Er	gineer I & II	En	gineer		Landscape chitect				r Technical ordinator	Senio	r Designer	Sr Adm	in Assistant		TOTAL	
POST DESIGN ACTIVITY	Rate/Hr.	81.03	Rate/Hr.	61.04	Rate/Hr.	54.38	Rate/Hr.	39.14	Rate/Hr.	28.01	Rate/Hr.	56.85	Rate/Hr.		Rate/Hr.	41.80	Rate/Hr.	37,28	Rate/Hr.	23.74		IOIAL	
DESCRIPTION	MAN HRS.	Cost by Pas & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS,	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MH BY ACTIVITY	SALARY COST BY ACTIVITY	
Pre-Bid Conference	4	\$324.12	5	\$305.20	5	\$271.90		\$0.00	_	\$0.00	1	\$0.00	1	\$0.00	_	\$0.00	_	\$0.00	-	\$0.00	14	\$901.22	\$64.37
Addenda	12	\$972.36	8	\$488.32	30	\$1,631,40		\$0.00	8	\$224.08		\$0.00		\$0.00		\$0.00		\$0.00	5	\$118.70	63	\$3,434.86	\$54,52
Field Visits	30	\$2,430.90	36	\$2,197.44	36	\$1,957,68		\$0.00	2	\$56.02	4	\$227.40		\$0.00		\$0.00		\$0.00	4	\$94.96	112	\$6,964.40	\$62.18
Shop Drawing Reviews		\$0.00	1	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1 1	\$0.00	<u> </u>	\$0.00	1	\$0.00		\$0.00	0	\$0.00	#DIV/05
Roadway	4	\$324.12	16	\$976.64	30	\$1,631.40	40	\$1,565.60	24	\$672.24		\$0.00		\$0.00	8	\$334.40	20	\$745.60	8	\$189.92	150	\$6,439.92	\$42.93
Drainage/Permits	4	\$324.12	16	\$976.64	58	\$3,154,04	110	\$4,305.40	24	\$672.24		\$0.00	1 -	\$0.00	6	\$250,80	17	\$633.76	2	\$165.18	242	\$10,483.18	\$43,32
Fiber Optic Network		\$0.00	6	\$366.24	27	\$1,468.26	54	\$2,113.56	24	\$672.24		\$0.00	1 1	\$0.00	-	\$0.00	1	\$0.00	6	\$142.44	117	\$4,762.74	\$40.71
Signing and Marking	2	\$162.06	Ť	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	10	\$372.80		\$0.00	12	\$534.86	\$40.71
Structures	40	\$3,241.20	100	\$6,104.00	1350	\$73,413.00	1466	\$57,379.24	550	\$15,405.50		\$0.00	1	\$0.00		\$0.00	116	\$4,324,48	22	\$522.28	3644	\$160,389,70	\$44.57
Lighting	1 70	\$0.00	5	\$305.20	11	\$598.18	7	\$273.98		\$0.00	-	\$0.00	1-1	\$0.00	_	\$0.00	20	\$745.60	2	\$47.48	45		
Utilities		\$0.00	-	\$0.00		\$0.00	4	\$156,56		\$0.00		\$0.00		\$0.00		\$0.00	20	\$0.00	-	\$0.00	4	\$1,970.44	\$43.79
Aesthetic Elements		\$0.00		\$0.00	_	\$0.00		\$0.00	24	\$672.24	25	\$1,421.25	1 -	\$0.00	_	\$0.00	-	\$0.00	2	\$47.48			\$39.14
Geotechnical Elements		\$0.00	_	\$0,00	3	\$163,14	3	\$117,42	- 27	\$0.00		\$0.00	1	\$0.00	_	\$0.00	-	\$0.00	2		51	\$2,140.97	\$41.98
Requests for Information	12	\$972.36	40	\$2,441.60	190	\$103.14	202	\$7,906,28	100	\$2,801,00	5	\$284.25	-	\$0.00	26	\$1,086.80	1			\$47.48	8	\$328.04	\$41.01
	24	\$1,944.72	44	\$2,685.76	20	\$1,087.60	202	\$0.00	7	\$196.07	-3-	\$0.00	-	\$0.00	20		124	\$4,622.72	34	\$807.16	733	\$31,254.37	\$42.64
L. Meetings						\$3,806.60	128		280		-	\$0.00	1			\$0.00		\$0.00		\$0.00	95	\$5,914.15	\$62.25
Plan Revisions	12	\$972.36	12	\$732.48	70			\$5,009.92		\$7,842.80	_			\$0.00	16	\$668.80	120	\$4,473.60	22	\$522.28	660	\$24,028.84	\$36.41
Bridge Load Ratings	6	\$486.18	30	\$1,831.20	30	\$1,631.40	450	\$17,613.00	210	\$5,882.10		\$0.00	-	\$0.00		\$0.00	_	\$0.00	-	\$0.00	726	\$27,443.88	\$37.80
. Geotechnical Services		\$0.00	-	\$0.00	-	\$0.00	_	\$0.00	_	\$0.00		\$0.00	-	\$0.00	_	\$0.00	_	\$0.00	_	\$0.00	. 0	\$0.00	#DIV/01
. Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0,00	-	\$0.00	-	\$0.00		\$0.00		\$0,00		\$0.00	. 0	\$0.00	#DIV/0
. Record Drawings	8	\$648.24	8	\$488.32	- 8	\$435.04	B	\$313.12	180	\$5,041.80	_	\$0.00	-	\$0.00	-	\$0.00	180	\$6,710.40		\$0,00	392	\$13,636.92	\$34.79
I. Project Management	120	\$9,723.60	24	\$1,464.96	28	\$1,522.64		\$0.00	_	\$0.00	_	\$0.00	1	\$0.00	53	\$2,215.40	-	\$0.00	53	\$1,258,22	278	\$16,184.82	\$58.22
-		\$22,526,34	350	\$21,364.00	1005	\$103,104.48	2,472	\$96,754.08	1,433	\$40,138.33	34	\$1,932.90	0	50.00	109	\$4,556,20				-			
DISTRIBUTION OF COST E	278	ASSESSMENT OF THE PARTY OF THE	Service Contract	\$21,364.00	1,890	\$103,104.46	2,472	\$90,754.08	1,433	\$40,130,33	34	\$1,932.90	-	TRACT FEE CO	CHARLESTON	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN	607	\$22,628.96	167	\$3,964.58	7346	\$316,969.87	\$43.15
					USI	e a							Subconsultar Ardaman GEC Antillian URS/AECON	its		1		IS LIMITING AN		20 20 20 20 20 20 20 20 20 20 20 20 20 2	\$316,969.87 \$966,758.10 \$966,758.10 \$68,888.22 \$9,350.06 \$13,021.67 \$6,791.96 \$47,494.81 \$1,112,294.82		

POST DESIGN SERVICES

Activity C: Pre-Bid Conference

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Attend pre-bid conference	EA	1	10		10		3-4 Atkins attendees (2.5 hrs each)
2. Walk project site with CEI	EA	1	4		4		2 persons (2 hrs each)
3.							
4.			-				
5.							
6.				4			
7.							6
8.							
9.							
10.							
Subtotal:				0	14	0	
11. Quality Control	5%		N/A	N/A	N/A	0	
12. Supervision	5%		N/A	N/A	N/A	0	
Totals:				0	14	0	

POST DESIGN SERVICES

Activity D: Addenda

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Addenda	EA	2	30		60		Assume 2 addenda, 30 hours per each (plans, quantities, etc)
2.							
3.01							
4,							
5.							
6.							
7.							4
8∗∀						- 5	9
9.	28	- 57					
10.							
Subtotal:				0	60	0	· · · · · · · · · · · · · · · · · · ·
11. Quality Control	5%		N/A	N/A	3	0	
12. Supervision	5%		N/A	N/A	N/A	0	To the state of th
Totals:				0	63	0	

POST DESIGN SERVICES

Activity E: Field Visits

Task	Basis of Estimate	of	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Field Visits	EA	24	4		96		3 hours per visit plus documentation and travel - 4 hours per visit
2. Aesthetics coord (site visits)	EA	4	4		16		
3.							
4.							N
5.							
6.							
7.						-	
8.							
9.							
10.							
Subtotal:				0	112	0	
11. Quality Control	5%		N/A	N/A	N/A	0	
12. Supervision	5%		N/A	N/A	N/A	0	
Totals:				0	112	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Roadway	LS	1	150	N/A	150	0	See activity F breakdwon
2. Drainage	LS	1	242	N/A	242	0	See activity F breakdwon
3. Fiber Optic Network & Related Items	LS	1	117	N/A	117	0	See activity F breakdwon
4. Signing and Marking	LS	1	12	N/A	12	0	Atkins back check WBQ
5. Structures	LS	1	3644	N/A	3,644	0	See activity F breakdwon
6. Lighting	LS	1	45	N/A	45	0	See activity F breakdwon
7. Utilities	LS	1	4	N/A	4	0	Primarily WBQ efforts, Atkins efforts for coord and processing only
8. Aesthetic Elements	EA	1	51	N/A	51	0	
9. Geotechnical Elements	LS	1	8	N/A	8	0	Geotech proposals, Atkins efforts for coordination and processing only
10.							
Subtotal:				0	4,273	0	
11. Quality Control			N/A	N/A		0	included in individual line items
12. Supervision			N/A	N/A		0	n.
Totals:		**		0	4,273	0	

POST DESIGN SERVICES

Activity G: Requests for Information

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Roadway	EA	72	3	N/A	216	0	3 per month
2. Drainage	EA	48	3	N/A	144	0	2 per month
3. Fiber Optic Network & Related Items	EA	20	3	N/A	60	0	assumed number of RFIs for FON work and testing requirements
4. Signing and Marking	EA			N/A	0	0	WBQ
5. Structures	EA	70	3	N/A	210	0	Assumed 10 per bridge, except Ramp K assumed 20; $(5 \times 10 = 50 + 20 = 70)$
6. Lighting	EA	6	3	N/A	18	0	
7. Utilities	EA			N/A	0	0	WBQ
8. Aesthetic Elements	EA	6	3	N/A	18	0	
9. Geotechnical Elements	EA			N/A	0	0	GEC, Ardaman, Antillian
10.							
Subtotal:				0	666	0	27
11. Quality Control	5%		N/A	N/A	33	0	
12. Supervision	5%		N/A	N/A	33	0	0
Totals:				0	733	0	

POST DESIGN SERVICES

Activity H: Meetings

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
Construction NTP Meeting	EA	1	6		6		2 attendees - PM & 1 key discipline (3 hrs each)
2. Construction Meetings	EA	15	3		45		once per month, plus 2 extra.
3. Partnering Meetings	EA	8	4		32		assumed quarterly, attended by PM or other delegate
4. Pre-award meeting	EA	1	12		12		up to 4 attendees - PM, rdwy, drng, and structures (3 hrs each)
5.							
6.							
7.							
8,							
9.							
10.							
Subtotal:				0	95	0	
11. Quality Control	5%		N/A	N/A	N/A	0	
12. Supervision	5%		N/A	N/A	N/A	0	
Totals:				0	95	0	

Activity I: Plan Revisions

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Roadway	EA	8	20	N/A	160		
2. Drainage	EA	6	12	N/A	72		
3. Fiber Optic Network & Related Items	EA	4	16	N/A	64		
4. Signing and Marking	EA			N/A	0		WBQ
5. Structures	EA	20	15	N/A	300		Assume 2 sheet revisions per bridge, except Ramp K at 10. $(2 \times 5 = 10 + 10 = 20)$
6. Lighting	EA			N/A	0		
7. Utilities	EA			N/A	0		N/A
8. Aesthetic Elements	EA	1	4	N/A	4		
9. Geotechnical Elements	EA			N/A	0		Subs only
10.							
Subtotal:				0	600		
11. Quality Control	5%		N/A	N/A	30		
12. Supervision	5%		N/A	N/A	30		
Totals:				0	660		4

Activity J: Bridge Load Ratings

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Bridge 750867	EA	1	24	N/A	24	0	
2. Bridge 750863	EA	> 1	36	N/A	36	0	
3. Bridge 750864	EA	1	36	N/A	36	0	
4. Bridge 750868	EA	17	27.5	N/A	468	0	
5. Bridge 750869	EA	1	24	N/A	24	0	
6. Bridge 750865	EA	1	24	N/A	24	0	
7. Bridge 750866	EA	1	24	N/A	24	0	
8. Bridge 750870	EA	1	24	N/A	24	0	
9.	EA			N/A	0	0	
10.							
Subtotal:				0	660	0	
11. Quality Control	5%		N/A	N/A	33	0	
12. Supervision	5%		N/A	N/A	33	0	
Totals:				0	726	0	

Activity K: Geotechnical Services

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1.	EA			N/A	0	0	Sub services
2.	EA			N/A	0	0	
3.	EA			N/A	0	0	4
4.	EA			N/A	0	0	
5.	EA			N/A	0	0	
6.	EA			N/A	0	0	
7.	EA	ū		N/A	0	0	
8.	EA			N/A	0	0	
9.	EA			N/A	0	0	
10.							
Subtotal:				0	0	0	
11. Quality Control	5%	11	N/A	N/A	0	0	
12. Supervision	5%		N/A	N/A	0	0	
Totals:				0	0	0	

POST DESIGN SERVICES

Activity L: Utilities

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1.	EA			N/A	0	0	WBQ proposal
10.							
Subtotal:				0	0	0	
11. Quality Control	5%		N/A	N/A	0	0	
12. Supervision	5%		N/A	N/A	0	0	
Totals:				0	0	0	

POST DESIGN SERVICES

Activity M: Record Drawings

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Roadway	LS	1	100	N/A	100		
2. Drainage	LS	1	60	N/A	60		
3. Fiber Optic Network	LS	1	40	N/A	40		
4. Signing and Marking				N/A	0		WBQ efforts
5. Structures	LS	1	100	N/A	100		9
6. Lighting	LS	1	24	N/A	24		
7. Utility Adjustment sheets	LS	1	30	N/A	30		51
8. Aesthetic Elements	LS	1	2	N/A	2		
9.							
10.							
Subtotal:				0	356		
11. Quality Control	5%		N/A	N/A	18		
12. Supervision	5%		N/A	N/A	18		
Totals:				0	392		1150 Atkins sheets in the set +/-Dollars!C368

POST DESIGN SERVICES

Activity N: Project Management

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
Monthly progress reports & invoices	Month	24	2		48		
2. Subconsultant coordination	Month	24	2		48		
3. Project documentation	Week	104	1.5		156		
4,							
5.							
6.							*
7.							
8.							
9.							
10.							
Subtotal:				0	252	0	
11. Quality Control	5%		N/A	N/A	13	0	
12. Supervision	5%		N/A	N/A	13	0	
Totals:				0	278	0	

Activity F: Shop Drawing Reviews - Roadway

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Fence & gates	EA	1	6	N/A	6	0	
2. Asphalt Mix Design	EA	1	4	N/A	4	0	
3. Concrete Mix Design	EA	1	3	N/A	3	0	
4. Base Mix Design	EA	1	2	N/A	2	0	
5. Gravity Wall	EA	1	4	N/A	4	0	
6. Guardrail	EA	1	7	N/A	7	0	
7. Attenuator	EA	1	2	N/A	2	0	
8. Concrete traffic barrier	EA	1	4	N/A	4	0	
9. Surcharge	EA	1	8	N/A	8	0	
10. MOT	EA	1	40	N/A	40	0	
11. Misc/unknown	EA	1	60	N/A	60	0	
12.	EA			N/A	0	0	
Subtotal:					140	0	
21. Quality Control	5%		N/A	N/A	7	0	9
22. Supervision	2%		N/A	N/A	3	0	_ ×
Totals:					150	0	

Activity F: Shop Drawing Reviews - Drainage

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Steel encased pipe-	EA	2	4	N/A	8	0	
2. Trench Drain	EA	2	4	N/A	8	0	
3. Chimney Drain	EA	2	4	N/A	8	0	
4. Type 5b underdrain, modified	EA	2	4	N/A	8	0	
5. Wall gutter outlet	EA	2	4	N/A	8	0	
6. Miscellaneous structures	EA	50	3	∍ N/A	150	0	Assume that dwgs submitted for 25% of structures
7. Outfalls	EA	6	2	N/A	12	0	
8. Misc/unknown	EA	g 1	24	N/A	24	0	
Subtotal:					226	0	
21. Quality Control	5%		N/A	N/A	11	0	
22. Supervision	2%		N/A	N/A	5	0	
Totals:			ą.		242	0	6

Activity F: Shop Drawing Reviews - Fiber Optic Network & Related Items (1 of 2)

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Conduit	EA	6	1	N/A	6	0	HDPE fiber Conduit and electrical conduit, fittings, elbows, sweeps and glue
2. RS 485 - Communication Wire	EA	2	2	N/A	4	0	
3. Fiber Optic Cable 12 count	EA	1	1.5	N/A	1.5	0	
4. Fiber Optic Cable 24 count	EA	1	1.5	N/A	1.5	0	
5. Fiber Optic Cable 72 Count	EA	1	1.5	N/A	1.5	0	
6. Fiber Patch panel	EA	1	2	N/A	2	0	5
7. UPS system	EA	1	2	N/A	2	0	
8. UPS Batteries	EA	1	2	N/A	2	0	
9. ITS Cabinet	EA	11	3	N/A	3	0	
10. NEMA Enclosure	EA	1	2	N/A	2	0	
11. Ethernet Switch	EA	1	2	N/A	2	0	
12. ITS Commander	EA	1	2	N/A	2	0	
13. APT Surge Protection Devices	EA	1	3	N/A	3	0	,
14. Splice Enclosure	EA	1	2	N/A	2	0	
15. Splice Tray	EA	1	1	N/A	1	0	
16. Fiber Pullbox	EA	V 1	2	N/A	2	0	
17. Electrical Pullbox	EA	1	2	N/A	2	0	K.
18. FOMH 4x4x4	EA	1	3	N/A	3	0	
19. FOMH 4x6.5x6.5	EA	1	3	N/A	3	0	
20. BPFG Conduit	EA	1	2	N/A	2	0	

Activity F: Shop Drawing Reviews - Fiber Optic Network & Related Items (2 of 2)

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
21. Bridge Hangers	EA	1	2	N/A	2	0	
22. PVC Conduit	EA	1	2	N/A	2	0	
23. Radar Devices	EA	1	2	N/A	2	0	
24. Device Servers	EA	1	2	N/A	2	0	
25. Wire harneses for Radar Devices	EA	1	2	N/A	2	0	
26. DCS devices	EA	1	3	N/A	3	0	
27. Antennae for DCS devices	EA	1	3	N/A	3	0	
28. Enclosures for DCS Readers	EA	1	3	N/A	3	0	
29. Reader Units for DCS	EA	1	2	N/A	2	0	
30. Coaxial Cable for DCS units	EA	1	2	N/A	2	0	H. Committee of the com
31. Electrical Transformers	EA	1	4	N/A	4	0	
32. Electrical Load Centers	EA	1	4	N/A	4	0	
33. Electrical Disconnects	EA	1	4	N/A	4	0	
34. Ground Rods	EA	1	1	N/A	1	0	
35. Lightning Arrestors	EA	1	1	N/A	1	0	
36. Rigid Galvanized Steel Conduits	EA	1	11	N/A	1111	0	
37. Misc/unknown	EA	1	24	N/A	24	0	
38.	EA			N/A	0	0	
Subtotal:					110	0	
39. Quality Control	¥ 5%		N/A	N/A	5	0	
40. Supervision	2%		N/A	N/A	2	0	
Totals:					117	0	

Activity F: Shop Drawing Reviews - Signing

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
Backcheck of WBQ for guide signs only	LS	1	12	N/A	12	0	
2.	EA			N/A	0	0	
Subtotal:		1	12		12	0	
21. Quality Control	5%		N/A	N/A	N/A	0	
22. Supervision	5%		N/A	N/A	N/A	0	
Totals:					12	0	<u></u>

Activity F: Shop Drawing Reviews - Structures B1 Ramp J Over Ondich Road

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Mix design	EA	6	2	N/A	12	0	Included separately for each bridge, allowing for changes in suppliers during construction.
2. SIP Forms	EA	1	20	N/A	20	0	
3. Bearings	EA	2	8	N/A	16	0	
4. Girders - Reinforcing Steel and Prestressing	EA	2	24	N/A	48	0	Design plans call for complete submittal of reinforcing steel for haunched modified Florida U-48 girders.
5. Expansion Joints	EA	1	4	N/A	4	0	8
6. Pile installation plan	EA	1	16	N/A	16	0	
7. Fiber Optic Conduit Attachment	EA	1	8	N/A	8	0	
8. Underdeck lighting	EA	1	8	N/A	8	0	
9. Out of pile tolerance	EA	2	16	N/A	32	0	Review of EOR submittal for pile placed out of tolerance. Will require rerun of our analysis.
10. Girder bracing	EA	1	8	N/A	8	0	Shop drawings
11,	EA			N/A	0	0	
12.	EA			N/A	0	0	
13.	EA			N/A	0	0	12
14.	EA			N/A	0	0	
15.	EA			N/A	0	0	
16.	EA			N/A	0	0	V
Subtotal:					172	0	
17. Quality Control	5%		N/A	N/A	9	0	1
18. Supervision	2%		N/A	N/A	3	0	
Totals:					184	0	

Activity F: Shop Drawing Reviews - Structures B2 SR 429 Over Ramp M and Ondich Road

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Mix design	EA	6	2	N/A	12	0	
2. SIP Forms	EΑ	4	20	N/A	80	0	Two spans, spacing varies
3. Bearings	EA	8	4	N/A	32	0	Design calculations, detailed shop drawings showing all components, materials, dimensions are in conformance with the plans and CFX specifications.
4. Girders - Reinforcing Steel and Prestressing	EA	12	12	N/A	144	0	Design plans call for complete submittal of reinforcing steel for haunched modified Florida U-63 girders. Some repetition in shop drawing.
5. Expansion Joints	EA	1	4	N/A	4	₩	
6. Pile installation plan	EA	4	16	N/A	64	0	For NBR values, installation plan for each
7. Fiber Optic Conduit Attachment	EA	1	8	N/A	8	0	- X
8. Underdeck lighting	EA	1	8	N/A	8	0	
9. Out of pile tolerance	EA	2	16	N/A	32	0	Review of EOR submittal for pile placed out of tolerance. Will require rerun of our analysis.
10. Girder bracing	EA	4	8	N/A	32	0	Shop drawings
11.	EA		(2)	N/A	0	0	
12.	EA			N/A	0	0	
13.	EA			N/A	0	0	
14.	EA		·	N/A	0	- 0	
15.	EA			N/A	0	0	
16.	EA			N/A	0	0	X
Subtotal:					416	0	
17. Quality Control	5%		N/A	N/A	21	0	
18. Supervision	2%		N/A	N/A	8 .	0	
Totals:					445	0	7

Activity F: Shop Drawing Reviews - Structures B3 Ramp K Flyover

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Mix design	EA	6	2	N/A	12	0	
2. SIP Forms	EA	5	20	N/A	100	0	Varying grider spacing with tangent and curved segments. Includes calculation review.
3. Pot Bearings	EA	36	4	N/A	144	0	Multi-rotational bearings, design calculations, signed and sealed by a Specialty Engineer, confirming that all components are in conformance with the plans and Specifications.
4. Post-tensioning System	EA	10	10	N/A	100	0	Post tension system review for both bottom tendons & continuous strands. Review includes post-tensioning hardware, working drawings, manuals, & signed and sealed PT related shop drawings & supporting calculations designed by the Contractor's Engineer of Record. Complete stress & camber calculations in each erection stage will be reviewed. Per Unit 2 x 5 =10.
5. Expansion Joints and cover plates.	EA	6	4	N/A	24	0	Flexible strip seal system & cover plates as detailed in the plan set,
6. Erection Plan	EA	5	40	N/A	200	0	Includes, schedule, temporary falsework, and shoring designs signed and sealed shop drawings and calculations by Contractor's Specialty Engineer. Review supporting calculations indicate that the design unit stresses have not been exceeded. See specification 460-7.1.3 for list of included items. Erection plan for each of the 5 Units
7. Interior Lighting/Conduits	EA	10	4	N/A	40	0	Layout per U-Beam Unit 5 x 2 =10
8. Integrated Segment Shop Drawings	EA	58	20	N/A	1,160	0	Total number segments = Unit 1: $7 \times 2 = 14$; Unit 2: $7 \times 2 = 14$; Unit 3: $5 \times 2 = 10$; Unit 4: $5 \times 2 = 10$; Unit 5: $5 \times 2 = 10$. 58 total segments to review mild & post tension layout & supporting calculations
9. Drainage Scuppers	EA	2	8	N/A	16	0	Two conditions, full shop drawings requested in coordination with precast segments.
10. Out of pile tolerance	EA	6	16	N/A	96	0	Review of EOR submittal for pile placed out of tolerance. Will require rerun of our analysis.
11. Girder bracing	EA	10	4	N/A	40	0	Shop drawings
12.	EA			N/A	0	0	
Subtotal:					1,932	0	
13. Quality Control	5%		N/A	N/A	97	0	
14. Supervision	2%		N/A	N/A	39	0	
Totals:					2,067	0	74

Activity F: Shop Drawing Reviews - Structures B4 Ramp L Over Plymouth Sorrento Road

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Mix design	EA	6	2	N/A	12	0	
2. SIP Forms	EA	1	20	N/A	20	0	
3. Bearings	EA	2	8	N/A	16	0	2
4. Girders - Reinforcing Steel and Prestressing	EA	2	24	N/A	48	0	Design plans call for complete submittal of reinforcing steel for haunched modified Florida U-72 girders.
5. Expansion Joints	EA	1	4	N/A	4	0	
6. Pile installation plan	EA	1	16	N/A	16	0	
7. Fiber Optic Conduit Attachment	EA	1	8	N/A	8	0	
8. Underdeck lighting	EA	1	8	N/A	8	0	
9. Out of pile tolerance	EA	2	16	N/A	32	0	Review of EOR submittal for pile placed out of tolerance. Will require rerun of our analysis.
10. Girder bracing	EA	1	8	N/A	8	0	Shop drawings
11.	. EA			N/A	0	0	
12.	EA			N/A	0	0	£ 0
13.	EA			N/A	0	0	
14.	EA	Х.		N/A	0	0	
15.	EA			N/A	0	0	
16.	EA			N/A	0	0	
Subtotal:					172	0	
17. Quality Control	5%		N/A	N/A	9	0	
18. Supervision	2%		N/A	N/A	3	0	
Totals:					184	0	

Activity F: Shop Drawing Reviews - Structures B5 SR 429 Over Plymouth Sorrento Road

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Mix design	EA	6	2	N/A	12	0	
2. SIP Forms	EA	1	20	N/A	20	0	
3. Bearings	ÉA	4	8	N/A	32	0	12
4. Girders - Reinforcing Steel and Prestressing	EA	6	12	N/A	72	0	Design plans call for complete submittal of reinforcing steel for haunched modified Florida U-72 girders. Some repetition in shop drawing
5. Expansion Joints	EA	1	4	N/A	4	0	
6. Pile installation plan	EA	1	16	N/A	16	0	
7. Fiber Optic Conduit Attachment	EA	1	8	N/A	8	0	
8. Underdeck lighting	EA	1	8	N/A	8	0	
9. Out of pile tolerance	EA	2	16	N/A	32	0	Review of EOR submittal for pile placed out of tolerance, Will require rerun of our analysis.
10. Girder bracing	EA	2	8	N/A	16	0	Shop drawings
11.	EA			N/A	0	0	
12.	EA			N/A	0	0	
13.	EA			N/A	0	0	
14.	EA			N/A	0	0	
15.	EA			N/A	0	0	
16.	EA			N/A	0	0	
Subtotal:					220	0	
17. Quality Control	5%		N/A	N/A	11	0	
18. Supervision	2%		N/A	N/A	4	0	
Totals:					235	0	

Activity F: Shop Drawing Reviews - Structures Structures B6 Ramp M Over Plymouth Sorrento Road

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Mix design	EA	6	2	N/A	12	0	
2. SIP Forms	EA	1	20	N/A	20	0	
3. Bearings	EA	2	8	N/A	16	0	
4. Girders - Reinforcing Steel and Prestressing	EA	3	12	N/A	36	0	Design plans call for complete submittal of reinforcing steel for haunched modified Florida U-72 girders. Some repetition in shop drawing
5. Expansion Joints	EA	1	4	N/A	4	0	
6. Pile installation plan	EA	1	16	N/A	16	0	
7. Fiber Optic Conduit Attachment	EA	1	8	N/A	8	0	
8. Underdeck lighting	EA	1	8	N/A	8	0	
9. Out of pile tolerance	EA	2	16	N/A	32	0	Review of EOR submittal for pile placed out of tolerance. Will require rerun of our analysis.
10. Girder bracing	EA	1	8	N/A	8	0	Shop drawings
11.	EA			N/A	0	. 0	
12.	EA			N/A	0	0	
13.	EA			N/A	0	0	
14.	EA			N/A	0	0	
15.	EA			N/A	0	0	
16.	EA			N/A	0	0	
Subtotal:					160	0	
17. Quality Control	5%		N/A	N/A	8	0	*
18. Supervision	2%		N/A	N/A	3	0	
Totals:					171	0	

Activity F: Shop Drawing Reviews - Structures MSE Walls and Miscellaneous Structures

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Permanent MSE Walls	EA	13	10	N/A	130	0	
2. Overhead Sign Structures	EA	8	8	N/A	64	0	2 cantilever, 6 span structure
3. MOT elements protection	LS	1	40	N/A	40	0	
4. Unknown	LS	1	100	N/A	100	0	
5.	EA			N/A	0	0	
Subtotal:					334	0	
17. Quality Control	5%		N/A	N/A	17	0 .	
18. Supervision	2%		N/A	N/A	7	0	
Totals:					357	0	

Activity F: Shop Drawing Reviews - Lighting

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. LED for signs	EA	1	4	N/A	4	0	
2. LED for underdeck	EA	1	4	N/A	4	0	
3. Underdeck overall	EA	1	2	N/A	2	0	
4. light poles	EA	6,	2	N/A	12	0	
5. conduits/conductors	EA	6	2	N/A	12	0	
6. load centers/switches	EA	2	4	N/A	8	0	
	EA			N/A	0	0	AT .
Subtotal:					42	0	
21. Quality Control	5%		N/A	N/A	2	0	
22. Supervision	2%		N/A	N/A	1	0	
Totals:					45	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Utility Relocation Packages

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
Coord and processing	EA			N/A	4	0	Atkins coord only, rest by WBQ
	EA			N/A	0	0	
	EA			N/A	0	0	
Subtotal:					4	0	
21. Quality Control	5%	l	N/A	N/A	N/A	0	
22. Supervision	5%		N/A	N/A	N/A	0	
Totals:					4	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Aesthetic Elements

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Paint, formliners, misc.	LS	1	48	N/A	48	0	
2.	EA			N/A	0	0	
19.	EA			N/A	0	0	11.32
20.	EA			N/A	0	0	
Subtotal:					48	0	
21. Quality Control	5%		N/A	N/A	2	0	
22. Supervision	2%		N/A	N/A	1	0	
Totals:					51	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Geotechnical Elements

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. coordination and processing	EA			N/A	8	0	All by subs, Atkins coordination only
	EA			N/A	0	0	
Subtotal:					8	0	
21. Quality Control	5%		N/A	N/A	N/A	0	
22. Supervision	5%		N/A	N/A	N/A	0	
Totals:					8	0	

Ardaman & Associates, Inc

Subconsultant Wekiva Section 429-204 Post Design Fee Proposal

Fee: \$68,888.22

Central Florida Expressway Authority Post Design Services Summary Fee Sheet Wekiva Parkway, Section 429-204

SUB CONSULTANT: Ardaman

	Chief	Engineer	Senior	Engineer	Project	Engineer	Enginee	ring Intern	CADD	Operator	Sr. Engine	eering Tech	Secretar	y/ Clerical					
POST DESIGN ACTIVITY	Rate/Hr.	48.08	Rate/Hr.	47.10	Rate/Hr.	33.22	Rate/Hr.	23.79	Rate/Hr.	21.10	Rate/Hr.	19.44	Rate/Hr.	15.73		TOTAL			
DESCRIPTION	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MH BY ACTIVITY	SALARY COST BY ACTIVITY	AVG HRLY RATE		
C. Pre-Bid Conference		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
D. Addenda	1	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
E. Field Visits		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
F. Shop Drawing Reviews		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0,00	#DJV/01		
Roadway		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
Drainage/Permits		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
Fiber Optic Network		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
Signing and Marking		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
Structures		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
Lighting		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0I		
Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
Aesthetic Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
Geotechnical Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
G. Requests for Information		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
H. Meetings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
I. Plan Revisions		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
J. Bridge Load Ratings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
K. Geotechnical Services	12	\$576.96	140	\$6,594.00		\$0.00	190	\$4,520.10		\$0.00	510	\$9,914.40	8	\$125.84	860	\$21,731.30	\$25.27		
L. Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
M. Record Drawings	1	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
N. Project Management		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!		
TOTALS:	12	\$576.96	140	\$6,594.00	0	\$0.00	190	\$4,520.10	0	\$0.00	510	\$9,914.40	8	\$125.84	860	\$21,731.30	\$25.27		
DISTRIBUTION OF COST ELEM	ENTS TO BAS	IC ACTIVITIES	:				TOTAL CON	TRACT FEE CO	MPUTATIONS	St									
							TÓTAL ACT: Multiplier -	IVITY SALARY CO 3.17	OSTS:						\$21,731.30 \$68,888.22 \$0.00				
												,	Ardaman FEE:		\$0.00 \$68,888.22				
				-]			

POST DESIGN SERVICES

Activity K: Geotechnical Services

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
General Consulting Services	EA	1	83	N/A	83	0	Sub services
Services Relative to Monitoring of Deep Injection Grouting and Surcharge Settlement	EA	1	777	N/A	777	0	
3.	EA			N/A	0	0	
4.	EA			N/A	0	0	
Subtotal:				0	860	0	
11. Quality Control	0		N/A	N/A	0	0	V
12. Supervision	0		N/A	N/A	0	0	
Totals:				0	860	0	A

Geotechnical and Environmental Consultants, Inc (GEC)

Subconsultant
Wekiva Section 429-204
Post Design Fee Proposal

Fee: \$9,350.06

Central Florida Expressway Authority Post Design Services Summary Fee Sheet Wekiva Parkway, Section 429-204

SUB CONSULTANT: GEC

	Chief I	Engineer	Senior	Engineer	Project	Engineer	Eng	jineer	CADD	Operator	Sr. Engine	eering Tech	Secretar	y/ Clerical			
POST DESIGN ACTIVITY	Rate/Hr.	51.93	Rate/Hr.	45.08	Rate/Hr.	30.53	Rate/Hr.	25.00	Rate/Hr.	29.79	Rate/Hr.	24.47	Rate/Hr.	19.48	7.	TOTAL	
DESCRIPTION	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MH BY ACTIVITY	SALARY COST BY ACTIVITY	AVG HRL
Pre-Bid Conference		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Addenda		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$0.00	0	\$0.00	#DJV/0!
Field Visits		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Shop Drawing Reviews		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Roadway		\$0.00		\$0.00		\$0.00	i .	\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Drainage/Permits		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Fiber Optic Network		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Signing and Marking		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Structures		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Lighting		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Aesthetic Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Geotechnical Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	- 0	\$0.00	#DIV/0!
Requests for Information		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Meetings		\$0.00	8	\$360.64	8	\$244.24		\$0.00		\$0.00		\$0.00		\$0.00	16	\$604.88	\$37.81
Plan Revisions		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Bridge Load Ratings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Geotechnical Services		\$0.00		\$0.00	28	\$854.84		\$0.00	4	\$119.16	36	\$880.92	1	\$0.00	68 -	\$1,854.92	\$27.28
Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
. Record Drawings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Project Management		\$0.00	4	\$180.32		\$0.00		\$0.00		\$0.00		\$0.00	4	\$77.92	- 8	\$258.24	\$32.28
TOTALS:	0	\$0.00	12	\$540.96	36	\$1,099.08	0	\$0.00	4	\$119.16	36	\$880.92	4	\$77.92	92	\$2,718.04	\$29.54
DISTRIBUTION OF COST ELEME	NTS TO BAS	C ACTIVITIES	:				TOTAL CON	TRACT FEE CO	MPUTATIONS	S:							
								VITY SALARY CO	OSTS:						\$2,718.04		
1							Multiplier - 3	3.44							\$9,350.06	1	
I													Field Explorat			1	
1													Laboratory Te	sting			
													GEC FEE:		\$9,350.06	1	
																1	

POST DESIGN SERVICES

Activity H: Meetings

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Other Meetings	EA	4	4		16		
2.					0		
3.					0		
4.					0		
Subtotal:				0	16	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	16	0	

POST DESIGN SERVICES

Activity K: Geotechnical Services

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Geotechnical Services	EA	1	62	N/A	62	0	Consult on Pile Driving and Problematic Soil Issues
2.	EA			N/A	0	0	
3.	EA			N/A	0	0	
4.	EA			N/A	0	0	
Subtotal:				0	62	0	E CONTRACTOR OF THE CONTRACTOR
11. Quality Control	5%		N/A	N/A	3	0	
12. Supervision	5%		N/A	N/A	3	0	
Totals:				0	68	0	

POST DESIGN SERVICES

Activity N: Project Management

Task	Basis of Estimate	of	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. General Project Management	EA	1	8		8		
2.	EA				0		
3.	EA				0		
4.							
Subtotal:				0	8	0	
11. Quality Control	0%		N/A	N/A	0	0	
12. Supervision	0%		N/A	N/A	0	0	
Totals:				0	8	0	

Antillian Engineering Associates, Inc.

Subconsultant Wekiva Section 429-204 Post Design Fee Proposal

Fee: \$13,021.67

Central Fiorida Expressway Authority Post Design Services Summary Fee Sheet Wekiva Parkway, Section 429-204

SUB CONSULTANT: Antillian

¥	Project	Manager	Project	Engineer	Engineer	ing Intern	CADD (Operator	Sr. Engine	ering Tech	Admin	/ Clerical			
POST DESIGN ACTIVITY	Rate/Hr.	43.27	Rate/Hr.	43.27	Rate/Hr.	24.00	Rate/Hr.	26.92	Rate/Hr.	14.00	Rate/Hr.	0		TOTAL	
DESCRIPTION	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MH BY ACTIVITY	SALARY COST BY ACTIVITY	AVG HRLY RATE
C. Pre-Bid Conference		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
D. Addenda		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
E. Field Visits		\$0.00	8	\$346.16		\$0.00		\$0.00		\$0.00		\$0.00	8	\$346.16	\$43.27
F. Shop Drawing Reviews		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Roadway		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Drainage/Permits	1	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Fiber Optic Network		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Signing and Marking		\$0.00		\$0.00		\$0.00		\$0.00	-	\$0.00		\$0.00	0	\$0.00	#DIV/0!
Structures		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Lighting		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Aesthetic Elements	1	\$0.00		\$0.00		\$0.00		\$0.00	C.,	\$0.00		\$0.00	0	\$0.00	#DIV/0!
Geotechnical Elements		\$0.00	12	\$519.24		\$0.00		\$0.00		\$0.00		\$0.00	12	\$519.24	\$43.27
G. Requests for Information		\$0.00	14	\$605.78		\$0.00		\$0.00		\$0.00		\$0.00	14	\$605.78	\$43.27
H. Meetings		\$0.00	16	\$692.32		\$0.00		\$0.00		\$0.00		\$0.00	16	\$692.32	\$43.27
I. Plan Revisions		\$0.00	17	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
J. Bridge Load Ratings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
K. Geotechnical Services		\$0.00	32	\$1,384.64		\$0.00		\$0.00		\$0.00		\$0.00	32	\$1,384.64	\$43.27
L. Utilities	1	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
M. Record Drawings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
N. Project Management		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
TOTALS:	0	\$0.00	82	\$3,548.14	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	82	\$3,548.14	\$43.27
DISTRIBUTION OF COST ELEM	ENTS TO BAS	IC ACTIVITIES			TOTAL CON	TRACT FEE CO	MPUTATIONS	S:							
	a i				TOTAL ACTIVITY SALARY COSTS: Multiplier - 3.67 ANTILLI								\$3,548.14 \$13,021.67		
										AN	ILLIAN FEE:	51	\$13,021.67		

POST DESIGN SERVICES

Activity E: Field Visits

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Field Visits	EA	2	4		8		2 people at 4 hours each
2.					0		
3.						ļ	
4.							
Subtotal:				0	8	0	
11. Quality Control	0%		N/A	N/A	N/A	- 0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	8	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Geotechnical Elements	LS	1	12	N/A	12	0	
2.	LS		ii.	N/A	0	0	
3.	LS			N/A	0	0	
4.	LS			N/A	0	0	
Subtotal:				0	12	0	
11. Quality Control			N/A	N/A		0	
12. Supervision			N/A	N/A		0	
Totals:				0	12 -	0	

POST DESIGN SERVICES

Activity G: Requests for Information

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Geotechnical Elements	EA	1	14	N/A	14	0	
2.	EΑ			N/A	0	0	
3.	EA			N/A	0	0	
4.	EA			N/A	0	0	
Subtotal:				0	14	0	
11. Quality Control	0%		N/A	N/A	0	0	
12. Supervision	0%		N/A	N/A	0	0	
Totals:				0	14	0	

POST DESIGN SERVICES

Activity H: Meetings

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Project Meetings	EA	1	16		16		
2.	EA				0		
3.	EA				0		
4.	EA				0		
Subtotal:				0	16	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	16	0	

POST DESIGN SERVICES

Activity K: Geotechnical Services

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Geotechnical Services	EA	1	32	N/A	32	0	Review Pile Testing Reports and Pile Driving Criteria
2.	EA			N/A	0	0	
3.	EA			N/A	0	0	
4.	EA			N/A	0	0	
Subtotal:				0	32	0	
11. Quality Control	0%		N/A	N/A	0	0	
12. Supervision	0%		N/A	N/A	0	0	
Totals:				0	32	0	

AECOM Technical Services, Inc. (AECOM/ URS)

Subconsultant Wekiva Section 429-204 Post Design Fee Proposal

Fee: \$6,791.96

Central Florida Expressway Authority Post Design Services Summary Fee Sheet Wekiva Parkway, Section 429-204

SUB CONSULTANT: AECOM/ URS

€	Project	: Manager	Senior	Engineer	Project	Engineer	Senior 1	echnician	Secretar	y/ Clerical	Sr Survey	or & Mapper	Survey 1	rechnician .			
POST DESIGN ACTIVITY	Rate/Hr.	71.98	Rate/Hr.	61.43	Rate/Hr.	40.22	Rate/Hr.	34.33	Rate/Hr.	28.56	Rate/Hr.	53.48	Rate/Hr.	31.76		TOTAL	
DESCRIPTION	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MH BY ACTIVITY	SALARY COST BY ACTIVITY	AVG HRLY RATE
C. Pre-Bid Conference		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
D. Addenda		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
E. Field Visits		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
F. Shop Drawing Reviews		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	i	\$0.00		\$0.00	0	\$0.00	#DIV/0!
Roadway		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/01
Drainage/Permits		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0,00		\$0.00	0	\$0.00	#DIV/0!
Fiber Optic Network		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Signing and Marking		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0I
Structures		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Lighting		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Aesthetic Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Geotechnical Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
G. Requests for Information		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	50	\$2,674.00	0	\$0.00	50	\$2,674.00	\$53.48
H. Meetings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
I. Plan Revisions		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
). Bridge Load Ratings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	i –	\$0.00		\$0.00	0	\$0.00	#DIV/0!
K. Geotechnical Services		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
L. Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$0.00	ő	\$0.00	#DIV/0!
M. Record Drawings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
N. Project Management		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
TOTALS:	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	50	\$2,674.00	0	\$0.00	50	\$2,674.00	\$53.48
DISTRIBUTION OF COST ELEM	ENTS TO BASE	IC ACTIVITIES	:				TOTAL CON	TRACT FEE CO	MPUTATIONS	ia .							
							TOTAL ACTI Multiplier - 2	VITY SALARY CO	OSTS:			AECO	om/ URS FEE:		\$2,674.00 \$6,791.96 \$6,791.96		
												ALCO	on on or the		40,731.30		

POST DESIGN SERVICES

Activity G: Requests for Information

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Survey	EA	1	50	N/A	50	0	Right of Way Support, OT Hearings, Expert Witness, Support Documentation, etc.
2.	EA			N/A	0	0	
3.	EA			N/A	0	° 0	
4.	EA			N/A	0	0	
Subtotal:				0	50	0	
11. Quality Control	0%		N/A	N/A	0	0	
12. Supervision	0%		N/A	N/A	0	0	
Totals:				0	50	0	

WBQ Design & Engineering, Inc. (WBQ)

Subconsultant Wekiva Section 429-204 Post Design Fee Proposal

Fee: \$47,484.81

Central Florida Expressway Authority Post Design Services Summary Fee Sheet Wekiva Parkway, Section 429-204

SUB CONSULTANT: WBQ

	Chief I	Engineer	Project	Manager	Senior	Engineer	Project	Engineer	Eng	jineer	Cle	erical	Engineer	ring Intern			
POST DESIGN ACTIVITY	Rate/Hr.	88.74	Rate/Hr.	63.00	Rate/Hr.	50.37	Rate/Hr.	36.62	Rate/Hr.	30.85	Rate/Hr.	23.01	Rate/Hr.	17.41		TOTAL	
DESCRIPTION	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MAN HRS.	Cost by Pos & Act	MH BY ACTIVITY	SALARY COST BY ACTIVITY	AVG HRLY RATE
C. Pre-Bid Conference		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0I
D. Addenda		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
E. Field Visits		\$0.00		\$0.00	4	\$201.48	8	\$292.96	4	\$123.40		\$0.00		\$0.00	16	\$617.84	\$38.62
F. Shop Drawing Reviews		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Roadway		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Drainage/Permits		\$0.00	i	\$0.00		\$0.00	45	\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Fiber Optic Network		\$0.00	i	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Signing and Marking	4	\$354.96		\$0.00	24	\$1,208.88	24	\$878.88	24	\$740.40		\$0.00	44	\$766.04	120	\$3,949.16	\$32.91
Structures		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Lighting		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Aesthetic Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Geotechnical Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
G. Requests for Information		\$0.00		\$0,00	24	\$1,208.88	12	\$439.44	12	\$370.20		\$0.00		\$0.00	48	\$2,018.52	\$42.05
H. Meetings		\$0.00	4	\$252.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	4	\$252.00	\$63.00
I. Plan Revisions		\$0.00	2	\$126.00	10	\$503.70	10	\$366.20	10	\$308.50		\$0.00		\$0.00	32	\$1,304.40	\$40.76
J. Bridge Load Ratings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
K. Geotechnical Services		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$0.00	0	\$0.00	#DIV/0!
L. Utilities	3	\$266.22		\$0.00	26	\$1,309.62	35	\$1,281.70	42	\$1,295.70		\$0.00		\$0.00	106	\$4,153.24	\$39.18
M. Record Drawings		\$0.00	4	\$252.00	4	\$201.48		\$0.00		\$0.00		\$0.00		\$0.00	8	\$453.48	\$56.69
N. Project Management		\$0.00	27	\$1,701.00		\$0.00		\$0.00		\$0.00	7	\$161.07		\$0.00	34	\$1,862.07	\$54.77
TOTALS:	7	\$621.18	37	\$2,331.00	92	\$4,634.04	89	\$3,259.18	92	\$2,838.20	7	\$161.07	44	\$766.04	368	\$14,610.71	\$39.70
DISTRIBUTION OF COST ELEM	ENTS TO BASE	IC ACTIVITIES	:				TOTAL CON	TRACT FEE CO	MPUTATIONS	5:							
's		,				11	TOTAL ACTI Multiplier - :	VITY SALARY CO 3.25	OSTS:				WBQ FEE:		\$14,610.71 \$47,484.81 \$47,484.81		
		-			367												

POST DESIGN SERVICES

Activity E: Field Visits

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Field Visits	EA	2	8		16		1 Every 12 Months out of 24 Months
2.	EA				0		VI
3.							
4.							£_1\
							8
Subtotal:				0	16	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	, N/A	0	
Totals:				0	16	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Signing and Marking	LS	2	60	N/A	120	0	Assumes 2 Reviews
2.	LS			N/A	0	0	
3,	LS			N/A	0	0	
4.	LS			N/A	0	0	
Subtotal:				0	120	0	
11. Quality Control			N/A	N/A		0	
12. Supervision			N/A	N/A		0	
Totals:				0	120	0	

POST DESIGN SERVICES

Activity G: Requests for Information

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Utilities	EA	6	4	N/A	24	0	Assumes 6
2. Signing and Marking	EA	6	4	N/A	24	0	Assumes 6
3.	EA			N/A	0	0	
4.	EA			N/A	0	0	
Subtotal:				0	48	0	
11. Quality Control	0%		N/A	N/A	0	0	
12. Supervision	0%		N/A	N/A	0	0	
Totals:				0	48	0	

POST DESIGN SERVICES

Activity H: Meetings

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Meetings	- EA	2	2		4		Assumes 2 Meetings Total Over 24 Months
2.	EA				0		
3.	EA				0		
4.	EA				0		
Subtotal:				0	4	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	κ; 0	
Totals:				0	4	0	

POST DESIGN SERVICES

Activity I: Plan Revisions

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Signing and Marking	EA	2	16	N/A	32		Assumes 2 Revisions
2.,,	EA			N/A	0		
3.	EA			N/A	0		
4.	EA			N/A	0		-
Subtotal:				0	32		
11. Quality Control	0%		N/A	N/A	0		
12. Supervision	0%		N/A	N/A	0		
Totals:				0	32		II

POST DESIGN SERVICES

Activity L: Utilities

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Utilities Coordination	EA	12	8	N/A	96	0	12 Months (8 hours per month) Out of 24 Months
2. Misc Correspondence	EA	1	10	N/A	10	0	
Subtotal:				0	106	0	
11. Quality Control	0%		N/A	N/A	0	0	
12. Supervision	0%		N/A	N/A	0	0	
Totals:				0	106	0	

POST DESIGN SERVICES

Activity M: Record Drawings

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Signing and Marking	LS	1	4	N/A	4		
2. Utility Adjustment sheets	LS	. 1	4	N/A	4		
3.	LS			N/A	0		
4.				N/A	0		
11							
Subtotal:				0	. 8		
11. Quality Control	0%		N/A	N/A	0		
12. Supervision	0%		N/A	N/A	0		W
Totals:				0	8		w .

POST DESIGN SERVICES

Activity N: Project Management

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Addenda	EA	2	16		32		Assumes 2 Addenda
2.	EA				0		
3.	EA				0		
4.							The state of the s
Subtotal:				0	32	0	
11. Quality Control	0%		N/A	N/A	0	0	к по
12. Supervision	5%		N/A	N/A	2	0	
Totals:				0	34	0	