

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

MEMORANDUM

TO: CFX Board Members

FROM: Aneth Williams 
Director of Procurement

DATE: July 26, 2016

SUBJECT: Authorization for Approval of Supplemental Agreement No. 9
Post Design Services
S.R. 429 (Wekiva Parkway) Systems Interchange East to Mt. Plymouth Road
Project 429-205, Contract No. 000859

Board approval is requested for Supplemental Agreement No. 9 with Parsons Transportation Group, Inc. in the not-to-exceed amount of \$359,984.37 for Post Design Services related to Project 429-205. Services will include shop drawing reviews, attendance at construction meetings, site visits and responding to contractor's request for additional information.

This Supplemental Agreement will be a continuation of an agreement previously approved. (Original Agreement dated August 29, 2012)

Original Contract Amount	\$2,200,000.00
Amount of Supplemental Agreement No. 1	\$ 0.00
Amount of Supplemental Agreement No. 2	\$ 430,000.00
Amount of Supplemental Agreement No. 3	\$ 0.00
Amount of Supplemental Agreement No. 4	\$ 110,000.00
Amount of Supplemental Agreement No. 5	\$ 0.00
Amount of Supplemental Agreement No. 6	\$ 0.00
Amount of Supplemental Agreement No. 7	\$ 23,435.29
Amount of Supplemental Agreement No. 8 (PDS 429-205A)	\$ 41,357.39
Amount of Supplemental Agreement No. 9 (PDS 429-205)	<u>\$ 359,984.37</u>
Total Revised Contract Amount	\$3,164,777.05

Reviewed by:

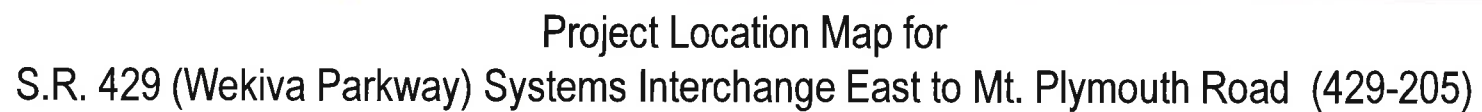

Glenn Pressimone, PE
Director of Engineering



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WWW.CFXWAY.COM





SUPPLEMENTAL AGREEMENT NO. 9
TO
AGREEMENT FOR PROFESSIONAL SERVICES
POST DESIGN SERVICES (FOR 429-205)

S.R. 429 (Wekiva Parkway) Systems Interchange East to Mt. Plymouth Road

THIS SUPPLEMENTAL AGREEMENT is made and entered into this _____ day of _____, 2016, 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 "CFX" and the consulting firm of PARSONS TRANSPORTATION GROUP, INC., hereinafter called the "CONSULTANT."

WHEREAS, Section 4.27 of Exhibit "A" of the Agreement for Professional Services between CFX and the CONSULTANT, dated the 29th day of August 2012 provides that after completion of the services outlined in Exhibit "A" for Project Number 429-205 of the said Agreement for Professional Services, CFX may negotiate with the CONSULTANT a Supplemental Agreement for Post Design Services and whereas, Articles 2.00 and 12.00 of the Agreement for Professional Services provide that in the event that CFX shall change the amount of work of the said Agreement for Professional Services, the fees to be paid to the CONSULTANT shall be subject to adjustment as shall be mutually agreed upon:

NOW, THEREFORE, BE IT RESOLVED THAT:

1. CFX hereby authorizes the CONSULTANT to proceed with Post Design Services required as outlined in the Wekiva Parkway Corridor Consultant's correspondence to CFX dated June 17, 2016 which is attached hereto and made a part of this Supplemental Agreement.

2. All invoices from the CONSULTANT for Post Design Services shall be submitted to CFX with complete documentation. Invoices for Post Design Services shall not be a continuation of the original CONSULTANT'S contract amount for final design services and shall only be for those services as outlined in this Supplemental Agreement. Compensation for Post Design Services shall be invoiced to CFX at an hourly rate, inclusive of overhead, profit and expenses (exclusive of travel). The hourly rate shall be calculated using the employee's actual direct salary and the negotiated Post Design Services multiplier, as outlined in the Wekiva Parkway Corridor Consultant's correspondence to CFX dated June 17, 2016. Direct expenses will be reimbursed for local travel only (per mile). The maximum fee for Post Design Services shall be \$359,984.37.

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: _____
Assistant Secretary

By: _____
Director of Procurement

PARSONS TRANSPORTATION GROUP, INC.

Witness: _____
Print Name:
Title:

By: _____
Print Name:
Title:

Exhibit "A"

Project 429-205

S.R. 429 (Wekiva Parkway) Systems Interchange East to Mt. Plymouth Road 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, CFX, and CFX's CEI.

C. Pre-bid Conference

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

D. Addenda

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

E. Field Visits

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

F. Shop Drawing Reviews

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

G. Post-Design Contact

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

H. Timeliness

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

I. Meetings

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

J. Bridge Load Ratings

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

K. Geotechnical Engineering

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

L. Utilities

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

M. Record Drawings

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



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

June 17, 2016

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

RE: Wekiva Parkway
Contract No. 000859
Project No. 429-205
Supplemental Agreement No. 9

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, Parsons, has submitted a Post-Design Services amendment package to address the post-design services and/or plan modifications required since the Bid Package was submitted.

We have reviewed the attached proposal from Parsons, and have determined the proposal is consistent with the original contract terms and category rates. The amendment addresses all anticipated scope of work.

The package submitted and reviewed is requesting a fee of \$359,984.37.

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

Sincerely,
CH2M HILL

A handwritten signature in blue ink that reads 'Scott Bear'.

Scott Bear
Project Manager

cc: File (w/ attach)

July 17, 2016

Mr. Scott Bear, P.E.
WPCC Project Manager
CH2M Hill
225 East Robinson Street, Suite 505
Orlando, Florida 32801

Re: SR 429 – Wekiva Parkway
From SR 429 Systems Interchange East to Mt. Plymouth Road
Contract 000859; Project 429-205
Supplemental Agreement #9

Dear Mr. Bear:

Enclosed please find one copy of Supplemental Agreement No. 9 for post design tasks for the above referenced project. The version originally submitted in March has been revised based on comments from CFX and CH2M Hill.

If any additional information is required, please do not hesitate to contact me at (407)-702-6832 or e-mail me at thomas.e.davidson@parsons.com.

Sincerely,



Ted Davidson, P.E.
Project Manager

Cc: file 647710



S.R. 429 (WEKIVA PARKWAY EXPRESSWAY)
EAST OF SR429/SR46 SYSTEM INTERCHANGE TO EAST OF MT. PLYMOUTH ROAD (CR435)
CFX PROJECT NO. 429-205
Supplemental Agreement #9- Post Design
Services
Parsons Project # 647710

March 18, 2016 (Revised May 10, 2016 & July 17, 2016)

Scope of Post Design Services Work Tasks

The following are estimated Post Design Services Tasks required by Parsons to provide design assistance to CFX in the completion of the construction of the S.R. 429 (Wekiva Parkway Expressway), Section 2A, 205 project. Total length of construction contract is 540 calendar days or 18 months.

Scope of Services Task No.

4.27B.a

Requests for Information (RFI's)

This task consists of researching and responding to the Contractor's requests for additional (RFI's) information regarding the site, design plans, typical sections, quantities and special provision information.

Assume 8 RFI's / month x 12 months = 96 RFI's + 2 RFI's / month x 6 months = 12 RFI's

108 RFI's @ 4 hrs./RFI = 432 hours

Therefore the Post Design fee anticipates 108 RFI's over the 540 calendar days.

Total Requests for Information– 432 hours

4.27B.b

Design Plan Revisions

This task consists of documenting, issuing and revising an estimated number of design CADD files and design plan sheets based on contractor or field design changes on the project. Issuance of design plan revisions will assist the Contractor and CEI personnel to prepare as-built plans required by CFX.

Assume issuance of four (4) design plan revisions @ 10 design plan sheets/revision = 40 plan sheets.

Revisions to 40 Design plan sheets @ 4 hours/plan = 160 hours

Total Design Plan Revisions – 160 hours

4.27B.c

CFX Pre-Award Conference

This task consists of attendance by the Engineer of Record (EOR) of the Parsons staff at the CFX Pre-Award Conference to be held when a date has been established. Parsons has already delivered to CFX the necessary documents require for the Pre-Award Conference.

2 hours meeting time x 2 hours prep x 1 EOR = 4 hours

Total OCEA Pre-Award Conference – 4 hours

4.27C. Pre-Bid Conference

This task consists of attendance by the Project Manager of the Parsons staff at the CFX Pre-Bid Conference. Parsons has already delivered to CFX the necessary documents require for the Pre-Bid Conference.

2 hour meeting time x 2 hours prep x 1 Engineer = 4 hours

Total OCEA Pre-Bid Conference – 4 hours

4.27D. Plan Addenda

This task consists of responding to and documenting Contractor's questions/clarifications on the Bid Documents and issuing and revising an estimated number of Bid design plan sheets based on Addenda responses. Assume issuance of three (3) Addenda on Contract Bid Documents.

Assume researching and responding to 20 Contractor's questions/clarifications

20 questions/clarifications @ 2 hours/question = 40 hours

Assume 3 Addenda revisions to 25 Design plan sheets/ Addenda @ 3 hours/plan = 225 hours

Total Plan Addenda – 265 hours

4.27E. Field Reviews

This task consists of attendance by the Parsons Design staff to any Contractor/CEI field meetings to resolve design related issues with differing field conditions. Also included in this task are periodic field visits to the site by Parsons Design staff to observe whether the

project is being constructed in general conformance with the "Approved for Construction" design plans. These field reviews will be documented by written memorandums and submitted to the WPCC within five working days.

Assume 1 review/2 months x first 12 months = 6 reviews x 3 hours/review x 2 engineers = 36 hours

Therefore the Post Design fee anticipates 36 hours in Field Reviews

Total Field Reviews – 36 hours

4.27F Shop Drawing Reviews

This task consists of the review and approval of shop drawings for design components specified in the design plans as requiring submittal of shop drawings by the Contractor. Shop drawings will be required to be submitted for bridge beams, retaining walls, lighting, signs & overhead sign structures, drainage structures, fiber optic network equipment, utility items, etc. The shop drawing hours also assumes re-submittal of disapproved shop drawings. This task will also include reviewing proposals for substitution, supplemental agreements and other engineering services required to facilitate construction.

Assume 150 drainage structures with 50 sheets of drainage shop drawings @ 2 hours/drawing = 100 hours

Assume 30 signing & lighting shop drawings @ 2 hours/drawing = 60 hours

Assume 40 ITS shop drawings @ 2 hours/drawing = 80 hours

Structural shop drawing manhours (see attached spreadsheets) = 938 hours

Total Shop Drawing Reviews- 1178 hours

4.27G & H Coordination

This task will appoint a responsible and professional Parsons staff member to oversee the post-design services and ensure the timely delivery and processing of material submitted as construction proceeds. This task also consists of coordinating any design issues with the Contractor, FDOT, FGT, Duke Transmission & Distribution, Orange County & Lake County that may develop during the construction on the project. Coordination also includes attendance at any meetings, written documentation, phone logs, etc necessary to resolve any design related issues over the 540 calendar days of the contract.

Assume 16 hours/month x first 12 months = 192 hours

Assume 12 hours/month x last 6 months = 72 hours

Total Coordination – 264 hours

4.27I NTP/Partnering Meetings

This task consists of attendance by the Parsons Design staff to the Notice to Proceed meeting, Progress/Coordination meetings and Partnering meetings over the 540 day course of the construction contract.

Notice to Proceed meeting- 2 hour meeting time x 2 Engineers = 4 hours

Assume 1 Partnering meetings @ 8 hours/meeting x 2 Engineers = 16 hours

Assume 1 half-day partnering meetings @ 4 hours/meeting x 2 engineers = 8

Assume bi-monthly Progress/Coordination meetings - 9 meetings @ 1.5 hours/meeting x 2 Engineers= 27 hours.

Total NTP/Partnering Meetings- 55 hours

Subtotal: 2398 hours

Supervision and Quality Control (3%)

1. Total – 2398 x 3% = 72 hours. Supervision

2. Total – 2398 x 3% = 72 hours. Quality Control

Total Project Control – 144 hours

Total Hours – Post Design Services = 2542 hours

PTG

CN 000859
SA # 9

Prime Consultant
Wekiva Section 429-205
Post Design Fee Proposal - Sup. #9

Date: **7/17/2016**

Total Fee: **\$359,984.37**

Central Florida Expressway Authority
Post Design Services Summary Fee Sheet
Wekiva Parkway, Section 429-205

CN 000859
SA # 9

PRIME CONSULTANT: PTG

POST DESIGN ACTIVITY DESCRIPTION	Project Manager		Senior Engineer		Project Engineer		Senior Designer		Sr. Eng. Technician		Clerical		Rate/Hr.		Cost by Pos & Act		MH BY ACTIVITY	SALARY COST BY ACTIVITY	AVG HRLY RATE
	Rate/Hr.	71.47	Rate/Hr.	54.51	Rate/Hr.	35.96	Rate/Hr.	38.76	Rate/Hr.	31.93	Rate/Hr.	27.63	Rate/Hr.	0	Cost by Pos & Act	0			
	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			
C. Pre-Bid Conference	4	\$285.88				\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	4	\$285.88	\$71.47
D. Addenda	40	\$2,858.80	60	\$3,270.60	60	\$2,157.60	49	\$1,869.24	40	\$1,277.20	16	\$442.08		\$0.00		\$0.00	265	\$11,905.52	\$44.93
E. Field Visits	4	\$285.88	14	\$763.14	14	\$503.44	4	\$155.04	0	\$0.00	0	\$0.00		\$0.00		\$0.00	36	\$1,707.50	\$47.43
F. Shop Drawing Reviews		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Roadway	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	#DIV/0!
Drainage/Permits	12	\$857.64	40	\$2,180.40	40	\$1,438.40	5	\$193.80	1	\$31.93	2	\$55.26		\$0.00		\$0.00	100	\$4,757.43	\$47.57
Fiber Optic Network	8	\$571.76	33	\$1,798.83	33	\$1,186.68	4	\$155.04	1	\$31.93	1	\$27.63		\$0.00		\$0.00	80	\$3,771.87	\$47.15
Signing and Marking	5	\$357.35	16	\$872.16	16	\$575.36	2	\$77.52	1	\$31.93	0	\$0.00		\$0.00		\$0.00	40	\$1,914.32	\$47.86
Structures	92	\$6,575.24	318	\$17,334.18	318	\$11,435.28	42	\$1,627.92	11	\$351.23	9	\$248.67		\$0.00		\$0.00	790	\$37,572.52	\$47.56
Lighting	3	\$214.41	8	\$436.08	8	\$287.68	1	\$38.76	0	\$0.00	0	\$0.00		\$0.00		\$0.00	20	\$976.93	\$48.85
Utilities	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
Aesthetic Elements	8	\$571.76	27	\$1,471.77	27	\$970.92	4	\$155.04	1	\$31.93	1	\$27.63		\$0.00		\$0.00	68	\$3,229.05	\$47.49
Geotechnical Elements	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
G. Requests for Information	48	\$3,430.56	96	\$5,232.96	96	\$3,452.16	92	\$3,565.92	60	\$1,915.80	40	\$1,105.20		\$0.00		\$0.00	432	\$18,702.60	\$43.29
H. Meetings	12	\$857.64	24	\$1,308.24	23	\$827.08	0	\$0.00	0	\$0.00	0	\$0.00		\$0.00		\$0.00	59	\$2,992.96	\$50.73
I. Plan Revisions	11	\$786.17	36	\$1,962.36	33	\$1,186.68	32	\$1,240.32	32	\$1,021.76	16	\$442.08		\$0.00		\$0.00	160	\$6,639.37	\$41.50
J. Bridge Load Ratings	10	\$714.70	32	\$1,744.32	32	\$1,150.72	4	\$155.04	1	\$31.93	1	\$27.63		\$0.00		\$0.00	80	\$3,824.34	\$47.80
K. Geotechnical Services		\$0.00		\$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		\$0.00		\$0.00	0	\$0.00	#DIV/0!
M. Record Drawings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
N. Project Management	72	\$5,145.84	123	\$6,704.73	123	\$4,423.08	64	\$2,480.64	18	\$574.74	8	\$221.04		\$0.00		\$0.00	408	\$19,550.07	\$47.92
TOTALS:	329	\$23,513.63	827	\$45,079.77	823	\$29,595.08	303	\$11,744.28	166	\$5,300.38	94	\$2,597.22	0	\$0.00		\$0.00	2542	\$117,830.36	\$46.35
DISTRIBUTION OF COST ELEMENTS TO BASIC ACTIVITIES:																			
TOTAL CONTRACT FEE COMPUTATIONS:																			
TOTAL ACTIVITY SALARY COSTS:																			\$117,830.36
Multiplier - 2.7321																			\$321,924.33
Expenses (Mileage Only)																			\$432.54
Subconsultants																			
Balmoral																			\$8,907.58
GEC Class II Sub - Loaded Rates																			\$9,351.56
Antillian Class II Sub - Loaded Rates																			\$19,368.36
PTG LIMITING AMOUNT FEE:																			\$322,356.87
TOTAL MAXIMUM LIMITING AMOUNT:																			\$359,984.37

[Post Design Multiplier Calculation = Original Multiplier + ((Original expenses/ Original Labor) x 50%)]

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	4		4		2 hours meeting time x 2 hour prep x 1 EOR
2.	EA	1			0		
3.							
4.							
Subtotal:				0	4	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	4	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. Plan Addenda Revisions	EA	3	75	75	225		Assume 3 Addenda Revisions to 25 plans sheets @ 3 hrs per sheet
2. Questions Clarifications	EA	20	2		40		Assume 20 questions/clarifications @ 2 hours per question
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
Subtotal:				75	265	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				75	265	0	

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 Reviews	EA	6	6		36		Assume 1 review/2 months x first 12 months = 6 reviews x 3 hours/review x 2 engineers
2.	EA	1			0		
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
Subtotal:				0	36	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	36	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	0	N/A	0	0	
2. Drainage	LS	1	100	N/A	100	0	
3. Fiber Optic Network & Related Items	LS	1	80	N/A	80	0	
4. Signing and Marking	LS	1	40	N/A	40	0	
5. Structures	LS	1	790	N/A	790	0	
6. Lighting	LS	1	20	N/A	20	0	
7. Utilities	LS	1	0	N/A	0	0	
8. Aesthetic Elements	EA	1	68	N/A	68	0	
9. Geotechnical Elements	LS	1	0	N/A	0	0	
10.							
Subtotal:				0	1,098	0	
11. Quality Control	0%		N/A	N/A		0	
12. Supervision	0%		N/A	N/A		0	
Totals:				0	1,098	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	20	4	N/A	80	0	
2. Drainage	EA	10	4	N/A	40	0	
3. Fiber Optic Network & Related Items	EA	10	4	N/A	40	0	
4. Signing and Marking	EA	10	4	N/A	40	0	
5. Structures	EA	50	4	N/A	200	0	
6. Lighting	EA	2	4	N/A	8	0	
7. Utilities	EA			N/A	0	0	
8. Aesthetic Elements	EA	6	4	N/A	24	0	
9. Geotechnical Elements	EA			N/A	0	0	
10.							
Subtotal:				0	432	0	Assume 18 months of RFI's
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	432	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. Construction NTP Meeting	EA	1	4	N/A	4		Attendance by 2 Engineers
2. Construction Meetings	EA	9	3	N/A	27		bi-monthly coordination meetings for 18 months
3. Partnering Meetings	EA	2	12	N/A	24		Attendance by 2 Engineers
4. Pre-award meeting	EA	1	4	N/A	4		Preparation and Attendance
5.							
Subtotal:				0	59	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	59	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. Roadway	EA	5	4	N/A	20		
2. Drainage	EA	5	4	N/A	20		
3. Fiber Optic Network & Related Items	EA	5	4	N/A	20		
4. Signing and Marking	EA	5	4	N/A	20		
5. Structures	EA	10	4	N/A	40		
6. Lighting	EA	5	4	N/A	20		
7. Utilities	EA	0	0	N/A	0		
8. Aesthetic Elements	EA	5	4	N/A	20		
9. Geotechnical Elements	EA	0	0	N/A	0		
10.							
Subtotal:				0	160		Assume 4 sets of plan revisions at 10 sheets each
11. Quality Control	0%		N/A	N/A	N/A		
12. Supervision	0%		N/A	N/A	N/A		
Totals:				0	160		

POST DESIGN SERVICES

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 1: Morris Access Road	EA	1	20	N/A	20	0	
2. Bridge 2: Pond 2 Bridge	EA	1	20	N/A	20	0	
3. Bridge 3: FGT	EA	1	20	N/A	20	0	
4. Bridge 4: CR 435	EA	1	20	N/A	20	0	
5.	EA			N/A	0	0	
Subtotal:				0	80	0	As-built load rating
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	80	0	

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. Coordination (First 12 Months)	EA	12	16		192		
2. Coordination (Last 6 Months)	EA	6	12		72		
3.					0		
4.							
Subtotal:				0	264	0	
11. Quality Control	3%		N/A	N/A	72	0	For Entire Post Design (2398 * 3% = 71.94 = 72)
12. Supervision	3%		N/A	N/A	72	0	For Entire Post Design (2398 * 3% = 71.94 = 72)
Totals:				0	408	0	

POST DESIGN SERVICES

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			N/A	0	0	
2. Trench Drain	EA			N/A	0	0	
3. Chimney Drain	EA			N/A	0	0	
4. Type 5b underdrain, modified	EA			N/A	0	0	
5. Wall gutter outlet	EA			N/A	0	0	
6. Miscellaneous structures	EA	50	2	N/A	100	0	Assume 150 drainage structures with 50 sheets of drainage shop drawings @ 2 hours/drawing = 100 hours
7. Outfalls	EA			N/A	0	0	
8. Misc/unknown	EA			N/A	0	0	
Subtotal:					100	0	
21. Quality Control	0%		N/A	N/A	N/A	0	
22. Supervision	0%		N/A	N/A	N/A	0	
Totals:					100	0	

POST DESIGN SERVICES

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	1	2	N/A	2	0	
2. RS 485 - Communication Wire	EA	1	2	N/A	2	0	
3. Fiber Optic Cable 12 count	EA	1	2	N/A	2.0	0	
4. Fiber Optic Cable 24 count	EA	1	2	N/A	2.0	0	
5. Fiber Optic Cable 72 Count	EA	1	2	N/A	2.0	0	
6. Fiber Patch panel	EA	1	2	N/A	2	0	
7. UPS system	EA	1	2	N/A	2	0	
8. UPS Batteries	EA	1	2	N/A	2	0	
9. ITS Cabinet	EA	1	2	N/A	2	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	2	N/A	2	0	
14. Splice Enclosure	EA	1	2	N/A	2	0	
15. Splice Tray	EA	1	2	N/A	2	0	
16. Fiber Pullbox	EA	1	2	N/A	2	0	
17. Electrical Pullbox	EA	1	2	N/A	2	0	
18. FOMH 4x4x4	EA	1	2	N/A	2	0	
19. FOMH 4x6.5x6.5	EA	1	2	N/A	2	0	
20. BPPFG Conduit	EA	1	2	N/A	2	0	

POST DESIGN SERVICES

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	ITS review not structural
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 harnesses for Radar Devices	EA	1	2	N/A	2	0	
26. DCS devices	EA	1	2	N/A	2	0	
27. Antennae for DCS devices	EA	1	2	N/A	2	0	
28. Enclosures for DCS Readers	EA	1	2	N/A	2	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	
31. Electrical Transformers	EA	1	2	N/A	2	0	
32. Electrical Load Centers	EA	1	2	N/A	2	0	
33. Electrical Disconnects	EA	1	2	N/A	2	0	
34. Ground Rods	EA	1	2	N/A	2	0	
35. Lightning Arrestors	EA	1	2	N/A	2	0	
36. Rigid Galvanized Steel Conduits	EA	1	2	N/A	2	0	
37. Misc/unknown	EA	4	2	N/A	8	0	
38.	EA			N/A	0	0	
Subtotal:		40			80	0	Assume 40 ITS shop drawings at 2 hours each
39. Quality Control	0%		N/A	N/A	N/A	0	
40. Supervision	0%		N/A	N/A	N/A	0	
Totals:					80	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Signing

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1.	LS			N/A	0	0	
2. Signing detail sheets	EA	20	2	20	40	0	
Subtotal:		20	2		40	0	Assume 20 Signing detail sheets @ 2 hours/drawing
21. Quality Control	0%		N/A	N/A	N/A	0	
22. Supervision	0%		N/A	N/A	N/A	0	
Totals:					40	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Bridge No. 1: Morris Access Road

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Precast FUB Concrete Beams	EA	2	6	N/A	12	0	NB & SB same lengths. (Ext & Int Beams)
2. 24" Precast Concrete Piles	LS	1	12	N/A	12	0	Include Pile Installation Plan
3. Composite Bearing Pads	EA	1	4	N/A	4	0	
4. Bearing Plate Details	EA	4	3	N/A	12	0	
5. Material Certificates	LS	1	8	N/A	8	0	
6. Expansion Joints	EA	1	4	N/A	4	0	
7. Metal Stay-in-Place Forms	EA	2	10	N/A	20	0	Interior & Exterior Bay
8. Modified Traffic Railing Barrier	LS	1	12	N/A	12	0	
9.	EA			N/A	0	0	
Subtotal:					84	0	
17. Quality Control	0%		N/A	N/A	N/A	0	
18. Supervision	0%		N/A	N/A	N/A	0	
Totals:					84	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Bridge No. 2: Pond 2 Bridge

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Precast FUB Concrete Beams	EA	6	4	N/A	24	0	Spans 1 & 3 same lengths. Span 2 different length. Beam schedule sheet B2-20.
2. 24" Precast Concrete Piles	LS	1	12	N/A	12	0	Include Pile Installation Plan
3. Composite Bearing Pads	EA	1	4	N/A	4	0	
4. Bearing Plate Details	EA	4	3	N/A	12	0	
5. Material Certificates	LS	1	8	N/A	8	0	
6. Expansion Joints	EA	1	4	N/A	4	0	
7. Metal Stay-in-Place Forms	EA	2	10	N/A	20	0	
8. Modified Traffic Railing Barrier	LS	1	12	N/A	12	0	Interior & Exterior bay
9.	EA			N/A	0	0	
Subtotal:					96	0	
17. Quality Control	0%		N/A	N/A	N/A	0	
18. Supervision	0%		N/A	N/A	N/A	0	
Totals:					96	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Bridge No. 3: FGT

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Precast FUB Concrete Beams	EA	7	4	N/A	28	0	SB & NB different lengths (B3-28)
2. 24" Precast Concrete Piles	LS	1	18	N/A	18	0	Include Pile Installation Plan (FGT & Duke)
3. Composite Bearing Pads	EA	1	4	N/A	4	0	
4. Bearing Plate Details	EA	6	3	N/A	18	0	
5. Material Certificates	LS	1	8	N/A	8	0	
6. Expansion Joints	EA	2	3	N/A	6	0	
7. Metal Stay-in-Place Forms	EA	4	8	N/A	32	0	NB & SB. Two different beam spacings. Exterior and Interior bays x 2 bridges = 4
8. Modified Traffic Railing Barrier	LS	1	12	N/A	12	0	
9.	EA			N/A	0	0	
Subtotal:					126	0	
13. Quality Control	0%		N/A	N/A	N/A	0	
14. Supervision	0%		N/A	N/A	N/A	0	
Totals:					126	0	

POST DESIGN SERVICES

Activity F: Shop Drawing Reviews - Bridge No. 4: CR 435

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Precast FUB Concrete Beams	EA	7	12	N/A	84	0	NB & SB: Two different Bridge lengths & widths, Not STD - Haunched Details
2. 24" Precast Concrete Piles	LS	1	12	N/A	12	0	Include pile installation plan
3. Composite Bearing Pads	EA	1	4	N/A	4	0	
4. Bearing Plate Details	EA	6	3	N/A	18	0	
5. Material Certificates	LS	1	8	N/A	8	0	
6. Expansion Joints	EA	2	3	N/A	6	0	NB & SB: Two different bridge lengths
7. Metal Stay-in-Place Forms	EA	4	8	N/A	32	0	NB & SB: two different beam spacings. Exterior and Interior bays x 2 bridges = 4
8. Modified Traffic Railing Barrier	LS	1	12	N/A	12	0	
9.	EA			N/A	0	0	
Subtotal:					176	0	
17. Quality Control	0%		N/A	N/A	N/A	0	
18. Supervision	0%		N/A	N/A	N/A	0	
Totals:					176	0	

POST DESIGN SERVICES

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	8	16	N/A	128	0	
2. Cantilever Sign Structures	EA	1	8	N/A	8	0	Cantilever: FDOT Semi-STDs.
3. Overhead Span Quad Truss DMS Structures	EA	1	24	N/A	24	0	DMS Quad Truss, Upright, Catwalk, Connections. Non-STD
4. CCTV Camera Pole	EA	1	8	N/A	8	0	CCTV Pole: CFX Preference
5. TMS Pole	EA	1	8	N/A	8	0	TMS Pole: CFX Preference
6. CR 435 Bridge Mounted Sign	EA	2	4	N/A	8	0	CFX Required Bridge Mounted Sign (NB & SB). Assume FDOT Index 11870.
7. ITS Conduit Hanger Shop Drawings	EA	4	8	N/A	32	0	Structural Review: Total for 4 Bridge Crossings
8. MOT elements protection	LS	0	0	N/A	0	0	
9. Permanent CIP Wall Notes	EA	1	4	N/A	4	0	
10. Permanent CIP Wall Geometry	EA	5	6	N/A	30	0	
11. Permanent CIP Wall Details - Panels, Welds, Angles	EA	3	6	N/A	18	0	
12. Permanent CIP Wall Calculations	EA	5	4	N/A	20	0	
13. Material Certificates	EA	1	4	N/A	4	0	
14. Underdeck Lighting Connections	EA	4	4	N/A	16	0	Morris Access & CR 435 x Twin Bridges
15.					0		
16.	EA			N/A	0	0	
Subtotal:					308	0	
17. Quality Control	0%		N/A	N/A	N/A	0	
18. Supervision	0%		N/A	N/A	N/A	0	
Totals:					308	0	

POST DESIGN SERVICES

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			N/A	0	0	
2. LED for underdeck	EA	6	2	6	12	0	
3. Underdeck overall	EA	0	0	N/A	0	0	
4. light poles	EA			N/A	0	0	
5. conduits/conductors	EA	2	2	2	4	0	
6. load centers/switches	EA	2	2	2	4	0	
	EA			N/A	0	0	
Subtotal:					20	0	Assume a total of 10 lighting shop drawing sheets @ 2 hours each
21. Quality Control	0%		N/A	N/A	N/A	0	
22. Supervision	0%		N/A	N/A	N/A	0	
Totals:					20	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. Wall Formliners	LS	1	12	N/A	12	0	MSE & CIP Wall Coping for Project
2. CIP Concrete Formliners	LS	1	8	N/A	8	0	Pier Aesthetics - Pond 2 Bridge
3. Aesthetic Barrier Formliners	EA	4	8	N/A	32	0	4 Bridge Crossings: Outside exterior barriers
4. Chain Link Fence	LS	1	4	N/A	4	0	Fence on walls
5. Beam Grating	LS	1	12	N/A	12	0	Total of 4 Bridge Crossings
6.	EA			N/A	0	0	
Subtotal:					68	0	
21. Quality Control	0%		N/A	N/A	N/A	0	
22. Supervision	0%		N/A	N/A	N/A	0	
Totals:					68	0	

MISCELLANEOUS & OUT-OF-POCKET EXPENSES SA#9

SR 429 Orange County
CFX Contract 429-205
1/6/2016

ITEM DESCRIPTION : POST DESIGN of SR429 (Wekiva Parkway)-Contract 429-205 From SR429/SR46 System Interchange to CR435	ITEM SUB	ITEM
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Aerial Photography							\$0.00	TOTAL	TOTAL
								\$0.00	
Drafting Medium (Present, Boards):		0	4'x8' Brd @	\$3.50	Per SF	=		\$0.00	
(Roll Bond Plots):		0	Roll @	\$40.00	Per Roll	=		\$0.00	\$0.00
Reproduction (Blue Line & Photocopy)									
Xerograph BlueLines									
	Sets	Sheets	11 x 17	24 x 36					
Addenda shts.	0	260	0	0					
Phase I (30%)	0	0	0	0					
Phase II (60%)	0	0	0	0					
Phase III (90%)	0	0	0	0					
Phase IV (100%)	0	0	0	0					
Plan Revisions	0	15	0	0					
Total Sheets			0	0					
Costs: Blue Line							0 Sheets @ \$0.60 =	\$0.00	
Xeroxgraphic							0 Sheets @ \$0.15 =	\$0.00	
Photocopy									
RFI's							0 Sheets @ \$0.15 =	\$0.00	
Shop Drawings							0 Sheets @ \$0.15 =	\$0.00	
							0 Sheets @ \$0.15 =	\$0.00	
							0 Sheets @ \$0.15 =	\$0.00	
									\$0.00
Travel From: [Orlando]									
To Project: Trips									
Full 24 hr Day Per Deim		0 x	0	people =	\$0.000	days @\$50	\$0.00		
Partial Day Per Deim		0 x	2	people =	\$0.000	days @\$12.5	\$0.00		
Transport. - (Comm.)		x		people =		per trip	\$0.00		
- (POV)		6 x	56	miles x	\$0.445	per mile	\$149.52		
- (Rental)		x		(days x \$		Day Rate)			
				(miles x \$	\$0.445	Mi. Rate)	\$0.00		
To CFX/Cnty/FDOT/Agency Trips									
Full 24 hr Day Per Deim		x		people =	\$0.000	days @\$50	\$0.00		
Partial Day Per Deim		0 x	2	people =	\$0.000	days @\$12.5	\$0.00		
Transport. - (Comm.)		x		people =		per trip	\$0.00		
- (POV)		2 x	10	miles x	\$0.445	per mile	\$8.90		
- (Rental)		x		(days x \$		Day Rate)			
				(miles x \$	\$0.445	Mi. Rate)	\$0.00		
To Partnering Mtgs: Trips									
Full 24 hr Day Per Deim		0 x	2	people =	\$0.000	days @\$50	\$0.00		
Partial Day Per Deim		0 x	2	people =	\$0.000	days @\$12.5	\$0.00		
Transport. - (Comm.)		x		people =		per trip	\$0.00		
- (POV)		11 x	56	miles x	\$0.445	per mile	\$274.12		
- (Rental)		x		(days x \$		Day Rate)			
				(miles x \$	\$0.445	Mi. Rate)	\$0.00	\$432.54	
Shipping & Telephone (0 months @ \$ \$90.00 /Month)								\$0.00	\$0.00
								\$0.00	\$0.00
TOTAL EXPENSES									\$432.54

CN 000859
SA # 9

The Balmoral Group

Subconsultant
Wekiva Section 429-205
Post Design Fee Proposal

Fee: \$8,907.58

SUB CONSULTANT: Balmoral

POST DESIGN ACTIVITY DESCRIPTION	Project Manager		Chief Engineer		Project Engineer		Engineer Intern		Senior Designer		Rate/Hr.	Cost by Pos & Act	MH BY ACTIVITY	SALARY COST BY ACTIVITY	AVG HRLY RATE
	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.					
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	3	\$155.13	0	\$0.00	3	\$122.91	0	\$0.00	0	\$0.00	0	\$0.00	6	\$278.04	\$46.34
F. Shop Drawing Reviews		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
G. Roadway		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
H. Drainage/Permits	2	\$103.42	0	\$0.00	8	\$327.76	0	\$0.00	0	\$0.00	0	\$0.00	10	\$431.18	\$43.12
I. Fiber Optic Network		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
J. Signing and Marking		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
K. Structures		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
L. Lighting		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
M. Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
N. Aesthetic Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
O. Geotechnical Elements		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
P. Requests for Information	8	\$413.68	4	\$207.80	6	\$245.82	6	\$174.72	6	\$0.00	0	\$0.00	24	\$1,042.02	\$43.42
Q. Meetings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
R. Plan Revisions	3	\$155.13	3	\$155.85	3	\$122.91	3	\$87.36	0	\$0.00	0	\$0.00	12	\$521.25	\$43.44
S. Bridge Load Ratings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
T. Geotechnical Services		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
U. Utilities		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
V. Record Drawings		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
W. Project Management	12	\$620.52	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	12	\$620.52	\$51.71
TOTALS:	28	\$1,447.88	7	\$363.65	20	\$819.40	9	\$262.08	0	\$0.00	0	\$0.00	64	\$2,893.01	\$45.20
DISTRIBUTION OF COST ELEMENTS TO BASIC ACTIVITIES:															
TOTAL CONTRACT FEE COMPUTATIONS:															
TOTAL ACTIVITY SALARY COSTS:															
Multiplier = \$ 3.0790															
BALMORAL FEE:															

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 Review	EA	1	6	N/A	6	0	Assume 1 Field Visit; 2 people x 3 hrs
2.	EA	1			0		
3.							
4.							
Subtotal:				0	6	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	6	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		N/A	0	0	
2. Drainage	LS	1	10	N/A	10	0	
3. Fiber Optic Network & Related Items	LS	1		N/A	0	0	
4. Signing and Marking	LS	1		N/A	0	0	
5. Structures	LS	1		N/A	0	0	
6. Lighting	LS	1		N/A	0	0	
7. Utilities	LS	1		N/A	0	0	
8. Aesthetic Elements	EA	1		N/A	0	0	
9. Geotechnical Elements	LS	1		N/A	0	0	
10.							
Subtotal:				0	10	0	
11. Quality Control	0%		N/A	N/A		0	
12. Supervision	0%		N/A	N/A		0	
Totals:				0	10	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			N/A	0	0	
2. Drainage	EA	12	2	N/A	24	0	Assume 1 per month for first 6 months, 1 per 3 months for 18 months
3. Fiber Optic Network & Related Items	EA			N/A	0	0	
4. Signing and Marking	EA			N/A	0	0	
5. Structures	EA			N/A	0	0	
6. Lighting	EA			N/A	0	0	
7. Utilities	EA			N/A	0	0	
8. Aesthetic Elements	EA			N/A	0	0	
9. Geotechnical Elements	EA			N/A	0	0	
10.							
Subtotal:				0	24	0	
11. Quality Control	3%		N/A	N/A	1	0	(24 * 3% = 0.72 = 1)
12. Supervision	3%		N/A	N/A	1	0	(24 * 3% = 0.72 = 1)
Totals:				0	26	0	

POST DESIGN SERVICES

Activity 1: Plan Revisions

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Roadway	EA			N/A	0		
2. Drainage	EA	3	4	3	12		Estimate at 5% of 55 sheets, includes QC
3. Fiber Optic Network & Related Items	EA			N/A	0		
4. Signing and Marking	EA			N/A	0		
5. Structures	EA			N/A	0		
6. Lighting	EA			N/A	0		
7. Utilities	EA			N/A	0		
8. Aesthetic Elements	EA			N/A	0		
9. Geotechnical Elements	EA			N/A	0		
10.							
Subtotal:				3	12		
11. Quality Control	0%		N/A	N/A	N/A		
12. Supervision	0%		N/A	N/A	N/A		
Totals:				3	12		

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. Coordination	LS	1	12	N/A	12	0	Assume 1 hour per every 2 months for 24 months
2.					0		
3.					0		
4.							
Subtotal:				0	12	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	12	0	

POST DESIGN SERVICES

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			N/A	0	0	
2. Trench Drain	EA			N/A	0	0	
3. Chimney Drain	EA			N/A	0	0	
4. Type 5b underdrain, modified	EA			N/A	0	0	
5. Wall gutter outlet	EA			N/A	0	0	
6. Miscellaneous structures	EA	5	2	N/A	10	0	5 Outfall drainage structures
7. Outfalls	EA			N/A	0	0	
8. Misc/unknown	EA			N/A	0	0	
Subtotal:					10	0	
21. Quality Control	0%		N/A	N/A	N/A	0	
22. Supervision	0%		N/A	N/A	N/A	0	
Totals:					10	0	

Geotechnical and Environmental Consultants, Inc (GEC)

CN 000859
SA # 9

Subconsultant
Wekiva Section 429-205
Post Design Fee Proposal

Fee: \$9,351.56

Central Florida Expressway Authority
Post Design Services Summary Fee Sheet
Wekiva Parkway, Section 429-205

CN 000859
SA # 9

SUB CONSULTANT: GEC

POST DESIGN ACTIVITY DESCRIPTION	Chief Engineer		Senior Engineer		Project Engineer		Engineer		CADD/ Computer Tech		Secretary/ Clerical		Sr. Eng. Technician		Engineering Technician		TOTAL	
	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.	Rate/Hr.	MAN HRS.		
C. Pre-Bid Conference	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
D. Addenda	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
E. Field Visits	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
F. Shop Drawing Reviews	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
G. Roadway	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
H. Drainage/Permits	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
I. Fiber Optic Network	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
J. Signing and Marking	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
K. Structures	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
L. Lighting	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
M. Utilities	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
N. Aesthetic Elements	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
O. Geotechnical Elements	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
P. Requests for Information	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
Q. Meetings	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
R. Plan Revisions	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
S. Bridge Load Ratings	\$0.00	0	\$1,861.20	12	\$3,781.44	36	\$0.00	0	\$410.00	4	\$268.08	4	\$3,030.84	36	\$0.00	0	\$9,351.56	\$101.65
T. Geotechnical Services	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
U. Record Drawings	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
V. Project Management	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	#DIV/0!
TOTALS:	0	0	\$1,861.20	12	\$3,781.44	36	\$0.00	0	\$410.00	4	\$268.08	4	\$3,030.84	36	\$0.00	0	\$9,351.56	\$101.65
DISTRIBUTION OF COST ELEMENTS TO BASIC ACTIVITIES:																		
TOTAL ACTIVITY SALARY COSTS:																		
Class II Subconsultant (Loaded Rates)																		
Field Exploration																		
Laboratory Testing																		
GEC FEE:																		
\$9,351.56																		
\$9,351.56																		

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. Engineering Support	LS	1	92	N/A	92	0	Support for review of pile installation & soils
2.	EA			N/A	0	0	
3.	EA			N/A	0	0	
4.	EA			N/A	0	0	
Subtotal:				0	92	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	92	0	

Antillian Engineering Associates, Inc

CN 000859
SA # 9

Subconsultant
Wekiva Section 429-205
Post Design Fee Proposal

Fee: \$19,368.36

SUB CONSULTANT: Antillian

[illegible]

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 Review	LS	1	24		24		Review of geotechnical related field conditions
2.	EA	1			0		
3.							
4.							
Subtotal:				0	24	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	24	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		N/A	0	0	
2. Drainage	LS	1		N/A	0	0	
3. Fiber Optic Network & Related Items	LS	1		N/A	0	0	
4. Signing and Marking	LS	1		N/A	0	0	
5. Structures	LS	1		N/A	0	0	
6. Lighting	LS	1		N/A	0	0	
7. Utilities	LS	1		N/A	0	0	
8. Aesthetic Elements	EA	1		N/A	0	0	
9. Geotechnical Elements	LS	1	4	N/A	4	0	Pile installation plan
10.							
Subtotal:				0	4	0	
11. Quality Control			N/A	N/A		0	
12. Supervision			N/A	N/A		0	
Totals:				0	4	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			N/A	0	0	
2. Drainage	EA			N/A	0	0	
3. Fiber Optic Network & Related Items	EA			N/A	0	0	
4. Signing and Marking	EA			N/A	0	0	
5. Structures	EA			N/A	0	0	
6. Lighting	EA			N/A	0	0	
7. Utilities	EA			N/A	0	0	
8. Aesthetic Elements	EA			N/A	0	0	
9. Geotechnical Elements	LS	1	32	N/A	32	0	Respond to geotechnical related RFI's
10.							
Subtotal:				0	32	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	32	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. Construction NTP Meeting	EA				0		
2. Construction Meetings	EA				0		
3. Partnering Meetings	EA	1	8		8		Attend partnering or project meeting
4. Pre-award meeting	EA				0		
5.							
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 K: Geotechnical Services

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	CADD Hours	Remarks
1. Review Pile Testing Reports and Driving Criteria	LS	1	24	N/A	24	0	
2. Surcharge Monitoring/TSP	LS	1	40	N/A	40	0	
3.	EA			N/A	0	0	
4.	EA			N/A	0	0	
Subtotal:				0	64	0	
11. Quality Control	0%		N/A	N/A	N/A	0	
12. Supervision	0%		N/A	N/A	N/A	0	
Totals:				0	64	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. Pile Installation Plan	LS	1	4	N/A	4	0	
	EA			N/A	0	0	
Subtotal:					4	0	
21. Quality Control	0%		N/A	N/A	N/A	0	
22. Supervision	0%		N/A	N/A	N/A	0	
Totals:					4	0	