



**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2024	2025	2026	2027	2028
Capital Expenditures	\$ 541,515	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$ 541,515	-0-	-0-	-0-	-0-
# ADDITIONAL FTE POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget?

Yes  No

Is this item using Federal Funds?

Yes  No

Is this item using State Funds?

Yes  No

Budget Account No:

Fund 3950 Dept 361 Unit 1656 Object 6505-AE10

**Recommended Sources of Funds/Summary of Fiscal Impact:**

Local Government One-Cent Infrastructure Surtax  
Corkscrew Blvd. over SFWMD Miami Canal (934502)

**Brief Description: New Consultant Service Authorization  
CSA #8**

Basic Services	\$ 268,638.00
Reimbursable	\$ 94,156.46
Optional Services	\$ 18,720.00
<b>Total CSA #8</b>	<b>\$ 381,514.46</b>

**Estimated Staff Costs**

Roadway Production	\$ 80,000.00
Roadway Production: Right-of-Way	\$ 20,000.00
Survey	\$ 20,000.00
Traffic	\$ 40,000.00
<b>Total Staff Costs</b>	<b>\$ 160,000.00</b>

**Fiscal Impact** \$ 541,514.46

**Note:** Surtax Funding FY 2021 \$250,000, FY 2022 \$550,000 -  
Corkscrew Blvd. over SFWMD Miami Canal (934502)

C. Departmental Fiscal Review: \_\_\_\_\_

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Dev. and Control Comments:**

ASDUAL 6/21/24  
OFMB GAF 6/21  
MD 6/21

Brunde Prack 6/24/24  
Contract Dev. and Control  
6/24/24

**B. Approved as to Form and Legal Sufficiency:**

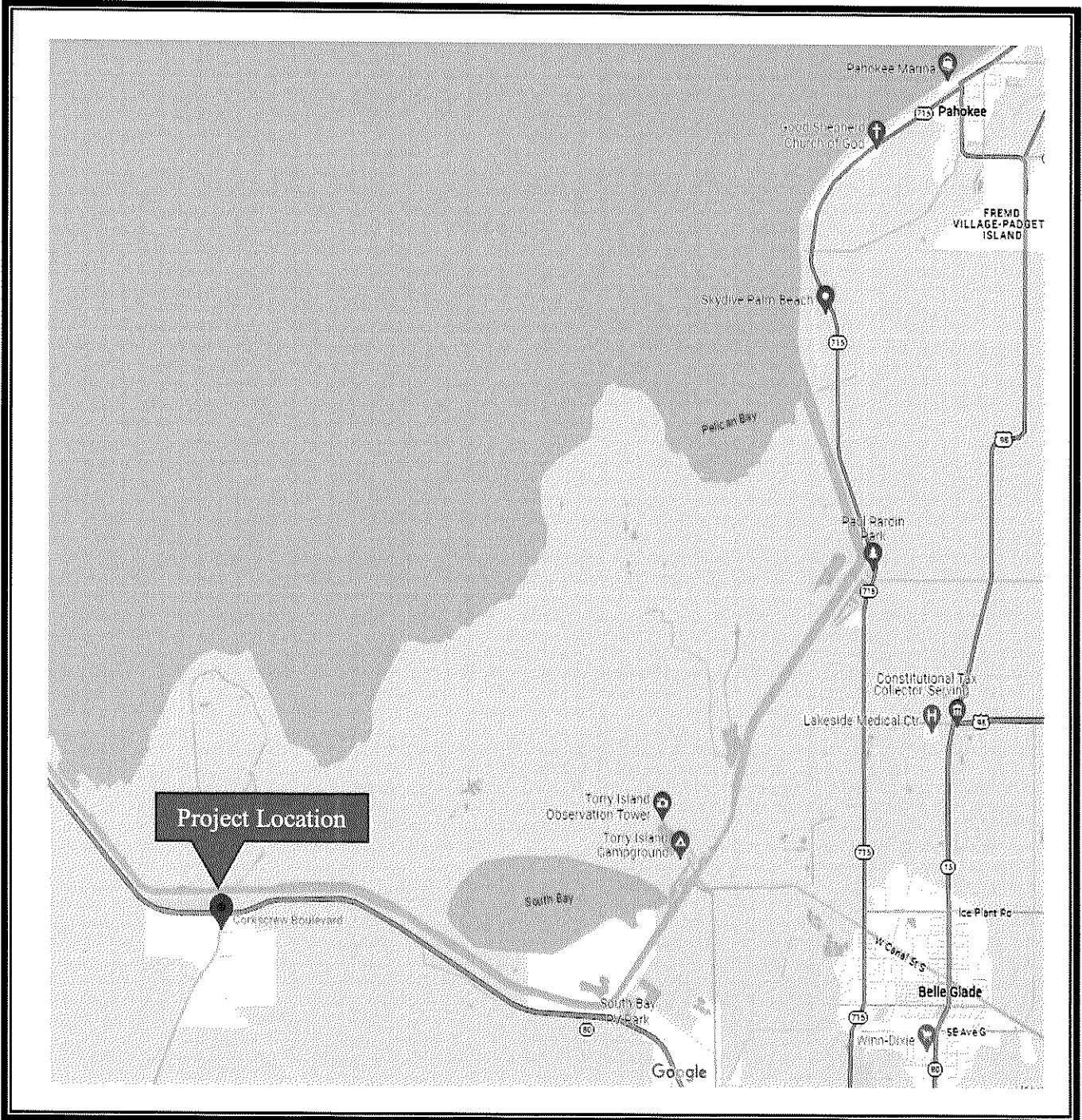
[Signature] 6/27/24  
Assistant County Attorney

**C. Other Department Review:**

\_\_\_\_\_  
Department Director

This summary is not to be used as a basis for payment.

**CORKSCREW BOULEVARD BRIDGE REPLACEMENT  
Palm Beach County Project #2021802**



**LOCATION MAP**

**ATTACHMENT 1**

**CONSULTANT SERVICE AUTHORIZATION NO. 8**  
**UNDER THE ANNUAL STRUCTURAL ENGINEERING SERVICES CONTRACT**

Project Name: **Corkscrew Boulevard over SFWMD Miami Canal (934502)**

Project No: **2021802**

Commission District No.: **6**

SBE Participation for this authorization is **18.93%**

SBE Participation to date for this Contract is **56.58%**

SBE Commitment is **98%**

This authorization is under the EBO Ordinance.

**PALM BEACH COUNTY**

**BOARD OF COUNTY COMMISSIONERS**

**Account No.: 3950-361-1656-6505-AE10**

Consultant Service Authorization No. 8 (CSA) under the Annual Structural Engineering Services Contract dated March 14, 2023, (R2023-0260), (CONTRACT), between the COUNTY and the CONSULTANT identified herein is for the services described in **EXHIBIT A** and **EXHIBIT B** for this CSA.

1. CONSULTANT: Alan Gerwig & Associates, Inc.

2. Address: 12798 W. Forest Hill Boulevard, Suite 204, Wellington, FL 33414

3. CONSULTANT shall begin work promptly on the requested Services, per the schedule attached as part of **EXHIBIT A**.

4. Scope of Services to be provided by CONSULTANT: Provide professional engineering design services to Palm Beach County for the Corkscrew Boulevard over SFWMD Miami Canal (934502) project. Design the replacement of the existing two lane, five span bridge improvement project, in accordance with the attached **EXHIBIT A** dated December 21, 2023.

5. The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

<input checked="" type="checkbox"/> Basic Services in a lump sum fee of	\$268,638.00
<input checked="" type="checkbox"/> Reimbursable Expenses capped at	\$ 94,156.46
<input checked="" type="checkbox"/> Optional Services capped at	\$ 18,720.00
<b>Totaling</b>	<b>\$381,514.46</b>

OEBO Schedules 1 & 2 **EXHIBIT C**

Project History **EXHIBIT D**

6. All terms of the CONTRACT, shall apply to this CSA.

*Attachment 2*

**CONSULTANT SERVICE AUTHORIZATION NO. 8**  
**UNDER THE ANNUAL STRUCTURAL ENGINEERING SERVICES CONTRACT**

IN WITNESS WHEREOF, this CSA is accepted as of the date signed by the COUNTY below, subject to the terms and conditions of the aforementioned CONTRACT.

CONSULTANT: Alan Gerwig & Associates, Inc.  
Federal ID: 65-0843137

COUNTY:  
Approved as to Terms and Conditions

Signed: \_\_\_\_\_

Typed Name: Alan Gerwig, P.E., LEED AP

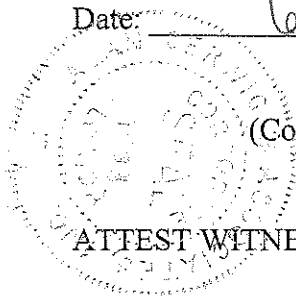
Title: President

Date: 6/17/2024

By: <sup>CB</sup> \_\_\_\_\_

<sup>KOF</sup> Typed Name: Morton L. Rose, P.E.

Title: Division Director



(Corporate Seal)

ATTEST WITNESS:

Signed: \_\_\_\_\_

Typed Name: Carolyn Vazquez

Title: Office Manager

Date: 6/17/2024

**CONSULTANT SERVICE AUTHORIZATION NO. 8**  
**UNDER THE ANNUAL STRUCTURAL ENGINEERING SERVICES CONTRACT**

{SIGNATURE PAGES CONTINUED}

COUNTY: **Palm Beach County**, a Political  
Subdivision of the State of Florida, by and  
through its Board of County Commissioners

Signed: \_\_\_\_\_

Typed Name: Maria Sachs

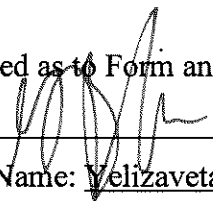
Title: Mayor

Date: \_\_\_\_\_

Joseph Abruzzo  
Clerk of the Circuit Court & Comptroller

By: \_\_\_\_\_  
Deputy Clerk

Approved as to Form and Legal Sufficiency

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

Typed Name: Yelizaveta B. Herman

Title: Assistant County Attorney

*F:\ROADWAY\CONTRACTS\STRUCTURAL\Gerwig\2021\2021802 Corkscrew Blvd Bridge\CSA and Supplement Template.docx*

12798 W. Forest Hill Boulevard  
 Suite 204  
 Wellington, FL 33414  
 Phone: (561) 792-9000  
 Fax: (561)792-9901  
 CA No. 7969

**Alan Gerwig & Associates, Inc.**  
 Consulting Engineers



August 15, 2023  
 Rev. September 5, 2023  
 Rev. September 8, 2023  
 Rev. December 11, 2023  
 Rev. December 20, 2023  
 Rev. December 21, 2023  
 Rev. May 1, 2024  
 Rev. May 20, 2024

*Scope & Fees OK*  
 MK / 5-21-24  
 CB / 5-21-24

Mr. Mostaque Khan, P.E.  
 Roadway Production Division  
 Palm Beach County Engineering & Public Works  
 2300 N. Jog Road  
 West Palm Beach, FL 33411

RE: Corkscrew Blvd Bridge Replacement (bridge #934502)  
 Palm Beach County Project No. 2021802

Dear Mr. Khan:

**Basic Scope of Services**

AGA will provide design services required to prepare construction documents and specifications for the replacement of the existing two lane, five span bridge and roadway approach improvements on Corkscrew Blvd over the Hillsborough Canal. Design survey services, geotechnical engineering services, cultural resource and environmental services will be provided using sub consultants identified below.

The proposed basic scope of services will include developing a typical section for the bridge/roadway, a design survey, a geotechnical engineering investigation, engineering design, preparation of a work plan for determining the cultural resource impacts of the project, construction document preparation, permitting, and utility coordination, for bidding and construction.

**Design Survey**

The design survey for this project will be performed by Brown & Phillips, Inc. acting as a sub-consultant to AGA. The survey will locate all above-ground features and provide the existing cross sections in the road right-of-way and canal right-of way. The limits of roadway survey will include

200LF of Corkscrew Blvd on each approach, 200LF down each of the four side streets located at each corner of the bridge, canal cross sections and overall outline of existing boat lock north of the bridge.

Full details of the scope of the design survey are attached to this proposal.

### **Geotechnical Investigation**

The geotechnical investigation for this project will be performed by Pacifica Engineering Services acting as a sub-consultant to AGA. The geotechnical investigation will provide the data and recommendations required for the design of the bridge foundations at abutments and intermediate bents. The scope of the geotechnical investigation will contain the following key items:

- Three 100-ft. deep Standard Penetration Test (SPT) borings for the design of the bridge foundations.

Full details of the scope of the geotechnical investigation are attached to this proposal.

### **Typical Section and Layout**

A typical section and horizontal layout will be developed and submitted to PBC for review and approval prior to commencing any design work. The typical section will be based on providing 2 – 12' lanes with 7' shoulders, and no sidewalk(s). Horizontal layout of the roadway and bridge will include the following:

- Typical section will be developed in accordance with the County's roadway typical section requirements.
- Typical section and horizontal layout plan will be submitted for comment and approval prior to commencing the design phase of the project.

### **Archaeological and Historic Research and Work Plan**

Janus Research will develop a work plan for the investigation of potential burials and cultural resources for the Corkscrew Boulevard Bridge (FDOT Bridge # 934502) over the Miami Canal project in Palm Beach County. The primary objective of the work plan is to develop a respectful and inclusive approach to investigating the potential location of an African American burial place that may be located within the project area. Secondary objectives are to address archaeological the potential and previously recorded and potential historic resources within and adjacent to the project area, analyze the archaeological potential of the project area, and outline an approach that will comply with the state and federal laws and codes. Full details of the scope of the cultural resources task are attached to this proposal.

### **Bridge Replacement**

The existing five span bridge will be replaced by a five span bridge that conforms to the approved typical section.



The bridge design will be in accordance with the current AASHTO LRFD and FDOT design specifications.

The design will include the bridge load rating calculations on the final design.

It is assumed that the road will be closed to traffic during construction and the bridge will be constructed in one phase. Vehicular access to each of the side streets will be maintained throughout the duration of construction.

### **Roadway Improvements**

Roadway construction plans will be limited to the tying into existing roadways at each end of the bridge approach slabs. It is anticipated that the side streets will not be affected. Therefore, side street profiles, intersection details are not include as part of this scope. Drainage improvements will consist of providing water quality pretreatment for the bridge deck area per the South Florida Water Management District's correspondence dated April 9, 2020 as part of the bridge replacement evaluation effort performed by R.J. Behar. This scope assumes that sufficient space exists within the road right-of-way adjacent to the bridge and between the side crossroads and canal top of bank.

The plans will be prepared in accordance with the current editions of the following standards.

- Palm Beach County Thoroughfare Roadway Design Procedures.
- FDOT Design Standards.
- Florida Greenbook.

Pavement marking and signing plans for the proposed improvements will be prepared to Palm Beach County Standards as a separate set of documents.

### **Permitting**

AGA will apply for the following permits required for the improvements detailed above:

- South Florida Water Management District Environmental Resource Permit.
- South Florida Water Management District R/W Occupancy permit
- Army Corp of Engineers Section 404 – dredge and fill permit and Environmental permit
- Army Corp of Engineers Section 408 – Engineering Review

AGA will hold pre-application meetings with the South Florida Water Management District and ACoE prior to making the application.

### **Utility Coordination**

It is understood that PBC will manage the coordination of the existing utilities with the various utility providers. AGA will assist PBC with this task by plotting the existing utility information supplied by the utility providers on the plans following the 35% submittal. AGA and its sub-consultant will attend up to a maximum of 3 utility coordination meetings to address and resolve any utility conflicts.

The design and permitting of any utilities that need to be relocated because of the bridge replacement and associated work is not part of the scope of this project.

**Plan Submittals**

All plans will be prepared on 11"x17" sheets. The roadway plans will be prepared at a scale of 1"=40' horizontal and 1"=4' vertical.

Plan review submittals will be made at Typical Section & Layout, 35% phase, 65% phase, 96% phase, 100% phase and Final Plans. Preliminary structural calculations will be submitted with the 65% and 96% submittals and final structural calculations will be submitted with the 100% submittal. All plan submittals shall include one PDF copy. Plan submittals in PDF format shall also be made via email to the County's Project Manager.

Quantities and cost estimates will be provided with the 65%, 96% and 100% submittal for the project. Final plans submittal will include a copy of the cost estimate in excel format.

**Optional Scope of Services**

**Post Design Services**

Post Design services will be provided by AGA, Inc. in support of the Construction Coordination Department as requested that include but are not limited to shop drawing review, requests for clarification from contractors, field observations. The fees are estimated and are an allowance that will be billed on an hourly basis.

**Fees: Basic Services**

<b>Prime Consultant Fee:</b>	<b>\$268,638.00</b>
<b>Reimbursable Fees</b>	
Brown & Phillips – Design Survey	\$27,004.20
Pacifica Engineering Svcs. – Geotech Eng.	\$29,337.10
EW Consulting – Environmental	\$15,913.08
Janus Research	\$16,152.08
Permit Fees*	<u>\$5,750.00</u>
<b>Reimbursable Total</b>	<b>\$94,156.46</b> ✓

\* Permit fees associated with SFWMD, and ACoE

**Fees: Optional Services**

Post Design Services (Prime Consultant)	\$11,700.00
Public Involvement (Prime Consultant)	\$1,560.00
Bridge Load Rating) Prime Consultant)	<u>\$5,460.00</u>
<b>Optional Services Total</b>	<b>\$18,720.00</b> ✓

**Project Deliverables**

For each plan submittal, three sets of plans and two sets of calculations will be provided. The report from the geotechnical investigation and the design survey will be included with the 35% submittal.

Following the review and approval of the 100% submittal, final plans will be submitted in hard copy and electronically in pdf format. Three hard copies of the final plans will be provided, including one set signed and sealed.

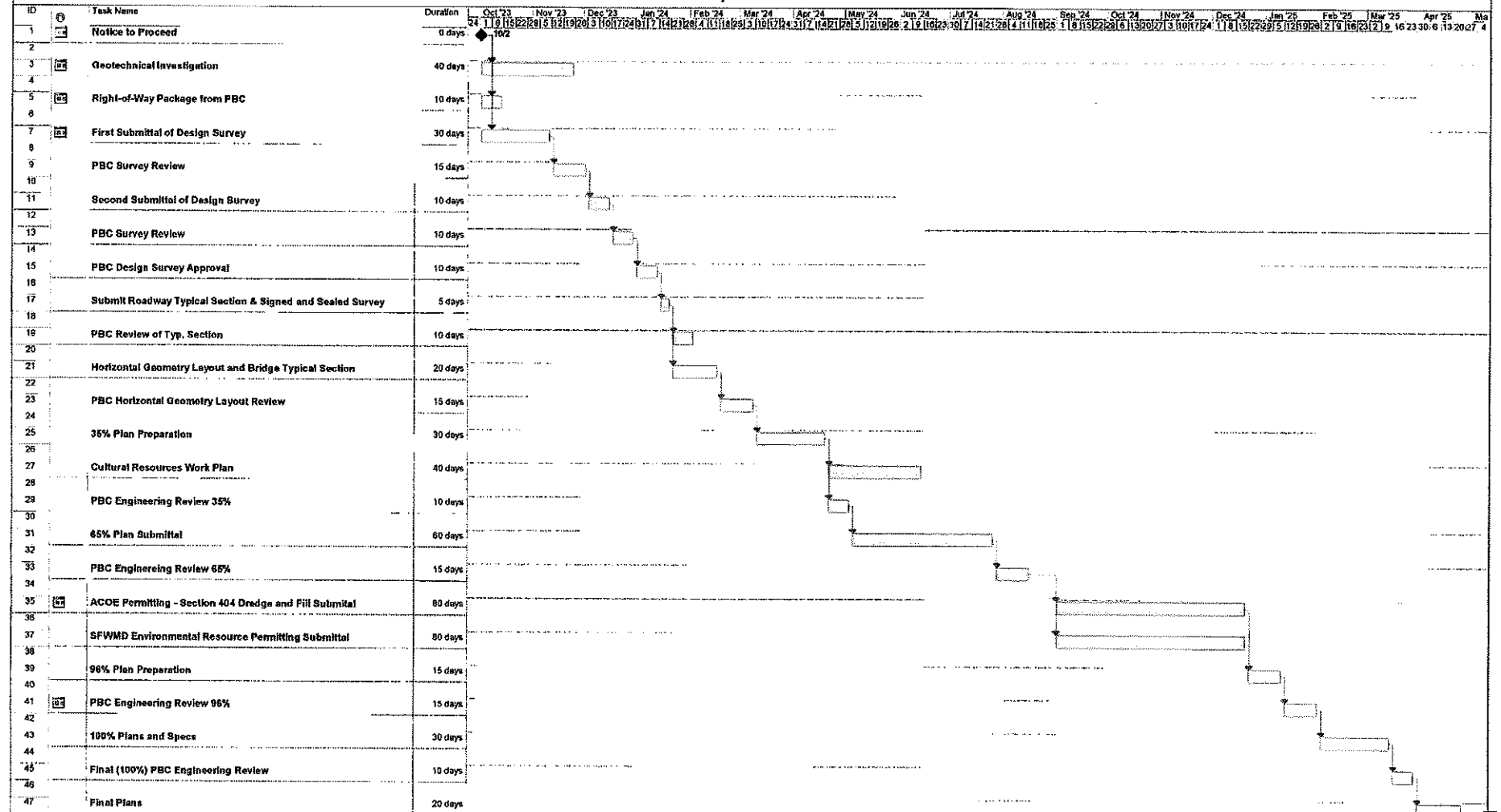
We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Sincerely,



**Alan Gerwig, P.E., LEED A.P.**  
**President**

### Corkscrew Blvd. Bridge Replacement PBC Proj. No. 2021-802



Date: Fri 8/18/23

Task Progress Summary External Task Deadline  
Split Milestone Project Summary External Milestone

Page 1

Name of Project:	Corkscrew Blvd	Consultant Name:	Alan Gerwig & Associates, Inc.
PBC Project Number:	2021802	Consultant Number:	
		Date:	5/20/2024

Task Description	Total Staff Hours	Staff Categories						Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task
		Sr. Engineer	Project Manager	Project Engineer	Designer					
		\$65.00	\$61.00	\$57.00	\$36.00					
<b>BASIC SERVICES</b>										
1 General Tasks	24	14	5	5				24	\$1,500.00	\$ 62.50
2 Roadway Analysis	112	62	22	22	6			112	\$6,842.00	\$ 61.09
3 Roadway Plans	96	24	21	10	41			96	\$4,887.00	\$ 50.91
4 Drainage Analysis	192	96	77	19				192	\$12,020.00	\$ 62.60
5 Drainage Plans	28	11	7	6	4			28	\$1,628.00	\$ 58.14
6 Permits and Environmental	146	88	44		14			146	\$8,908.00	\$ 61.01
7 Utilities	24	14	7		3			24	\$1,445.00	\$ 60.21
8 Signing & Marking Analysis	26	13	8	4	1			26	\$1,597.00	\$ 61.42
9 Signing & Marking Plans	8	3	2	2	1			8	\$467.00	\$ 58.38
19 Structures Plans	87	39	13	17	18			87	\$4,945.00	\$ 56.84
21 Short Span Concrete Bridge	804	402	121	80	201			804	\$45,307.00	\$ 56.35
<b>Total Staff Hours (Basic Services)</b>	<b>1547.0</b>	<b>766</b>	<b>327</b>	<b>165</b>	<b>289</b>			<b>1547.0</b>		
<b>Total Staff Cost (Basic Services)</b>		<b>\$49,790.00</b>	<b>\$19,947.00</b>	<b>\$9,405.00</b>	<b>\$10,404.00</b>				<b>\$89,546.00</b>	<b>\$7.88</b>
<b>OPTIONAL SERVICES</b>										
1 Post Design Services	60.0	60.0						60.0	\$3,900.00	\$ 65.00
2 Public Involvement	8.0	8.0						8.0	\$520.00	\$ 65.00
3 Bridge Load Rating	28.0	28.0						28.0	\$1,820.00	\$ 65.00
<b>Total Staff Hours (Optional Services)</b>	<b>96.0</b>	<b>96.0</b>						<b>96.0</b>		
<b>Total Staff Cost (Optional Services)</b>		<b>\$6,240.00</b>							<b>\$6,240.00</b>	<b>\$65.00</b>

SBE and M/WBE Participation for Solicited Professional Services Categories				
Committed Participation for SBE is 98% and M/WBE is 15% of Prime's Contracted Fee				
EBO SBE & N/WBE Fee Summary	SBE \$	M/WBE	Non SBE	
Prime Consultant Fee			\$293,108.00	
Brown & Phillips, Inc. (5.02) Fee	\$27,004.20	\$27,004.20	\$0.00	
Pacifica Engineering Services, LLC (6.01, 6.02) Fee	\$29,337.10	\$29,337.10	\$0.00	
EW Consulting, Inc.	\$15,913.08			
Janus Research, Inc.	\$0.00		\$16,152.08	
<b>Totals</b>	<b>\$72,254.38</b>	<b>\$56,341.30</b>	<b>\$309,260.08</b>	
*SBE % Achieved	18.94%			
*SBE % Committed	98.00%			
*M/WBE % Achieved		14.77%		
*M/WBE % Committed		15.00%		

Basic Services:	
Salary Related Costs:	\$89,546.00
Contract Multiplier:	3.00
<b>Subtotal Basic Services (Prime Firm):</b>	<b>\$268,638.00</b>
<b>Basic Services Total:</b>	<b>\$268,638.00</b>
Reimbursables:	
Prime Consultant: Permit Fees	\$5,750.00
Subconsultant: Brown & Phillips, Inc.	\$27,004.20
Subconsultant: Pacifica Engineering Services, LLC	\$29,337.10
Subconsultant: EW Consulting, Inc.	\$15,913.08
Subconsultant: Janus Research, Inc.	\$16,152.08
<b>Reimbursables Total:</b>	<b>\$94,156.46</b>
Optional Services:	
Prime Consultant - Post Design (Unloaded)	\$6,240.00
Contract Multiplier:	3.00
Prime Consultant (Loaded)	\$18,720.00
<b>Optional Services Total:</b>	<b>\$18,720.00</b>
<b>Grand Total Estimated Fees:</b>	<b>\$381,514.46</b>

Project Activity 1: General Tasks						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1.1	Public Involvement	LS	1	8	8	Provide Support as requested by County Project Manager
1.2	Renderings and Fly Throughs	EA	0	0	0	
1.3	PowerPoint Presentation	EA	0	0	0	
1.4	Public Meeting Preparations	EA	0	0	0	
1.5	Public Meeting Attendance/Followup	EA	0	0	0	
1.6	Value Engineering Review	LS	1	0	0	
1.7	Post Design Services	LS	1	60	60	Optional Services
1.8	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
1.9	Project Manager Coordination Meetings	EA	1	24	24	Meetings and assistance with archaeological related services
<b>1. General Tasks Total</b>					<b>92</b>	

Project Activity 2: Roadway Analysis						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
2.1	Typical Section Package	LS	1	6	6	Roadway and bridge typical sections
2.2	Horizontal /Vertical Master Design Files	LS	1	40	40	
2.3	Roundabout Design Analysis	LS	1	0	0	
2.4	Design Report	EA	1	24	24	
2.5	Computation Book & Quantities	EA	1	20	20	
2.6	Cost Estimate	EA	3	2	6	65%, 96% and 100% cost estimate
2.7	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	Optional Services
2.8	ROW Impact Analysis	LS	1	0	0	
2.9	Other Roadway Analyses	LS	1	0	0	
2.10	Monitor Existing Structures	LS	1	0	0	
2.11	Field Review	EA	2	8	16	Two site visits throughout design process
2.12	Technical Meetings	EA	2	0	0	
<b>2. Roadway Analysis Total</b>					<b>112</b>	

Project Activity 3: Roadway Plans						
Task No.	Task	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
3.1	Key Sheet	Sheet	1	8	8	Prepare roadway plans key sheet
3.2	Typical Sections	EA	2	6	12	Prepare road and bridge typical sections, revisions per comments (2 typical sections)
3.3	Typical Section Details	EA	1	2	2	Pavement design data
3.4	General Notes/Pay Item Notes/Summary of Quantities	Sheet	1	6	6	
3.5	Project Control Sheet – Survey Plans	Sheet	1	3	3	Incorporate project's survey control sheet
3.6	Master Plan	Sheet	1	12	12	Plan and Profile sheet (Horiz. only), existing R/W, baseline control, access mgmt & sight
3.7	Plan/Profile Sheet	Sheet	1	6	6	Project length approximately 400 LF presented on 1 sheet at 1"=40'
3.8	Profile Sheet	Sheet	0	0	0	Work effort for this task is covered in 3.7
3.9	Plan Sheet	Sheet	0	0	0	Work effort for this task is covered in 3.7
3.10	Driveway Profiles	EA	4	3	12	(2 hrs for analysis & 1 hr for Design) / Cross section
3.11	Special Profiles	Sheet	0	0	0	Project limits bound between the west begin and east end approach slabs. No sidestreets
3.12	Back-of-Sidewalk Profile Sheet	Sheet	0	0	0	
3.13	Intersection Layout Details	Sheet	0	0	0	
3.14	Plateau Intersection Detail	Sheet	0	0	0	
3.15	Miscellaneous Details	EA	8	2	16	Includes 6 canal cross sections with embankment stabilization details
3.16	Right-of-Way Acquisition Exhibit	Sheet	0	0	0	
3.17	Roadway Soil Survey Sheets	Sheet	1	1	1	Incorporate soil logs
3.18	Railroad Detail Sheets	Sheet	0	0	0	
3.19	Cross Sections	EA	6	3	18	6 roadway x-sections
<b>3. Roadway Plans Total</b>					<b>96</b>	



Project Activity 4: Drainage Analysis						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Drainage Map Hydrology	LF	1	4	4	
4.2	Determine Base Clearance Water Elevation	EA	1	4	4	
4.3	Pond Siting Analysis and Report	EA	0	0	0	
4.4	Design of Cross Drains	EA	2	2	4	
4.5	Design of Roadside Ditches	LF	4	2	8	Swale drainage to ditch bottom inlets at the 4 quadrants of the bridge
4.6	Design of Storm Drains	EA	4	1	4	4 inlets, 2 cross drains and 2 outfalls
4.7	French Drain Systems	LF	2	6	12	Roadside swale design and water quality provisions per SFWMD requirements
4.8	Drainage Design Report	LS	1	16	16	Roadway drainage report
4.9	Bridge Hydraulic Report	EA	1	140	140	Bridge hydraulic analysis and report per LWDD requirements
4.10	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	Optional Services
<b>4. Drainage Analysis Total</b>					<b>192</b>	

Project Activity 5: Drainage Plans							
Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Drainage Area Map		Sheet	1	10	10	
5.2	Box Culvert Detail Sheet		Sheet	0	0	0	
5.3	Drainage Structure		EA	4	3	12	Four drainage structures, two cross drains, and two outfall pipes
5.4	Miscellaneous Drainage Detail Sheets		Sheet	0	0	0	
5.5	Lateral Ditch Plan/Profile		LF	0	0	0	
5.6	Lateral Ditch Cross Sections		EA	0	0	0	
5.7	Retention/Detention Ponds Detail Sheets		Sheet	0	0	0	
5.8	Retention Pond Cross Sections		EA	0	0	0	
5.9	SWPPP Sheets		Sheet	1	6	6	
<b>5. Drainage Plans Total</b>						<b>28</b>	✓

Project Activity 6: Permits & Environmental						
Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
6.1	Pond Site Alternatives	EA	0	0	0	
6.2	Establish Wetland Jurisdictional Lines	LS	1	8	8	Establish lines with EW wetlands with EW Consulting and SFWMD
6.3	Existing Permit Analysis	LS	1	10	10	
6.4	Complete and Submit All Required Permit Applications	EA	1	80	80	SFWMD ERP, ACOE 404 & 408, Environmental Component by EW Consulting
6.5	Prepare Dredge and Fill Sketches	LS	1	40	40	Prepare the cut and fill sketches for ACOE permit applications
6.6	Mitigation Coordination and Meetings	EA	0	0	0	
6.7	Technical Meetings	EA	2	4	8	Attend two jurisdictional SFWMD /ACOE pre-application meeting.
<b>6. Permits and Environmental Total</b>					<b>146</b>	

Project Activity 7: Utilities						
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Incorporate Existing Utility Facilities	EA	1	4	4	Incorporate data and utility coordination results supplied by PBC and utility companies
7.2	Conflict Matrix	EA	2	2	4	Create utility conflict matrix and update based on coordination meeting
7.3	Identify and Incorporate Conflict Resolutions	LS	1	4	4	
7.4	Meetings	EA	3	4	12	Two utility coordination meetings
<b>7. Utilities Total</b>					<b>24</b>	

Project Activity 8: Signing & Marking Analysis						
Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.1	Master Design Files	LS	1	20	20	
8.2	Quantities	EA	3	1	3	65%, 96%, 100% submittals
8.3	Cost Estimate	EA	3	1	3	65%, 96%, 100% submittals
8.4	Other Signing and Pavement Marking	LS	1	0	0	
<b>8. Signing and Pavement Marking Analysis Total</b>					<b>26</b>	

<b>Project Activity 9: Signing &amp; Marking Plans</b>						
<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit or Sheet</b>	<b>Total Hours</b>	<b>Comments</b>
9.1	Key Sheet	Sheet	1	2	2	
9.2	General Notes/Pay Item Notes/Summary of Quantities	Sheet	1	2	2	
9.3	Typical Details	EA	0	4	0	
9.4	Plan Sheet	Sheet	1	4	4	
<b>9. Signing and Pavement Marking Plans Total</b>					<b>8</b> ✓	

Project Activity 19: Structural Plans						
Task No.	Task	Units	No. of Units	Hours per Unit or Sheet	Total	Comments
19.1	Key Sheet	Sheet	1	2	2	
19.2	Index of Drawings	Sheet	1	2	2	
19.3	Bridge Typical Section - Existing	EA	0	0	0	
19.4	Bridge Typical Section - Proposed	EA	0	0	0	Addressed in Task 3
19.5	Project Layout	Sheet	0	0	0	
19.6	General Notes and Bid Items	Sheet	2	3	6	
19.7	Miscellaneous Details	EA	0	0	0	
19.8	Incorporate Report of Core Borings	Sheet	1	1	1	
19.9	Bridge Plans	LS	1	4	4	Identify and insert appropriate FDOT Standard Plans
19.10	Existing Bridge Plans	LS	1	16	16	Provide guidance to PBC Road & Bridge for accommodating geotechnical boring through metal bridge deck.
19.11	Temporary Bridge Plans	LS	1	0	0	
19.12	Quantities	EA	4	6	24	<i>Estimate of Quantities to accompany cost estimates at 65%, 96%, 100% &amp; Final Submittals</i>
19.13	Cost Estimate	EA	4	2	8	<i>4 Submittals (see item 19.12 comments above)</i>
19.14	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.15	Retaining Walls	EA	0	0	0	
19.16	Miscellaneous Structures	Sheet	0	0	0	
19.17	Field Reviews	EA	3	8	24	<i>Two field reviews throughout design process</i>
19.18	Technical Meetings	EA	4	0	0	<i>(LIST)</i>
<b>19. Structures - Structural Plans Total</b>					<b>87</b>	

Project Activity 21: Short Span Concrete Bridge						
Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
<b>General Layout Design and Plans</b>						
21.1	Overall Bridge Final Geometry	LS	1	28	28	
21.2	Expansion/Contraction Analysis	EA Unit	1	8	8	
21.3	General Plan and Elevation	Sheet	1	54	54	
21.4	Construction Staging	Sheet	0	0	0	Bridge construction will be accomplished while roadway closed to traffic. No Phasing of construction included
21.5	Approach Slab Plan and Details	Sheet	2	16	32	Each approach slab will be a custom geometry design due to Intersections a each end of bridge
21.6	Miscellaneous Details	Sheet	3	16	48	(i.e. wingwall, radius barrier walls and terminations, approach slabs, corner sheet piles)
<b>End Bent Design and Plans</b>						
21.7	End Bent Geometry	EA End Bent	2	30	60	
21.8	End Bent Structural Design	EA Design	2	36	72	
21.9	End Bent Plan and Elevation	Sheet	2	20	40	
21.10	End Bent Details	Sheet	2	20	40	
<b>Intermediate Bent Design and Plans</b>						
21.11	Bent Geometry	EA Bent	4	8	32	4 intermediate bent geometry designs required
21.12	Bent Stability Analysis	EA Analysis	1	24	24	
21.13	Bent Structural Design	EA Design	1	40	40	
21.14	Bent Plan and Elevation	Sheet	1	16	16	
21.15	Bent Details	Sheet	1	20	20	



Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
<b>Miscellaneous Substructure Design and Plans</b>						
21.16	Foundation Layout	Sheet	1	24	24	Foundation layout and incorporate bridge boring soil logs and prepare foundation layout
<b>Miscellaneous Superstructure Design and Plans</b>						
21.17	Finish Grade Elevation Calculation	LS	1	16	16	
21.18	Finish Grade Elevations	Sheet	1	16	16	
<b>Cast-in-Place Slab Bridges</b>						
21.19	Bridge Deck Design	EA Unit	0	0	0	
21.20	Superstructure Plan	Sheet	0	0	0	
21.21	Superstructure Sections and Details	Sheet	0	0	0	
<b>Prestressed Slab Unit Bridges</b>						
21.22	Prestressed Slab Unit Design	EA Design	4	28	112	4 unique bridge deck slab units will be required
21.23	Prestressed Slab Unit Layout	Sheet	2	16	32	
21.24	Prestressed Slab Unit Details and Schedule	Sheet	1	26	26	Detailing of 4 unique slab units
21.25	Deck Topping Reinforcing Layout	Sheet	1	20	20	
21.26	Superstructure Sections and Details	Sheet	1	16	16	
<b>Reinforcing Bar List</b>						
21.27	Preparation of Reinforcing Bar List	Sheet	1	28	28	
<b>Load Rating</b>						
21.28	Load Ratings	EA Unit	1	28	28	
<b>21. Short Span Concrete Bridge Total</b>					<b>832</b>	

SFWMD

**PERMIT APPLICATION FEE SCHEDULE**

(Effective 8/7/2016)

**Environmental Resource Permits**

**New Individual or Conceptual Permit (excludes Agriculture, Mitigation Bank)**

- Project area < 10 acres; no wetlands or surface waters; no boat slips..... \$ 2,000
- Project area < 10 acres; < 1 acre wetland or surface water; < 10 boat slips..... \$ 3,500
- Project area < 40 acres; < 3 acres wetlands or surface waters; < 30 boat slips..... \$ 5,500
- Project area < 100 acres; < 10 acres wetlands or surface waters; < 50 boat slips..... \$ 7,500
- Project area < 640 acres; < 50 acres wetlands or surface waters; < 50 boat slips..... \$ 13,125
- Project area > 640 acres; > 50 acres wetlands or surface waters; > 50 boat slips..... \$ 25,000

**New Individual Agriculture or Silviculture Permit**

- Project area < 10 acres; < 1 acre wetland or surface water..... \$ 859
- Project area < 40 acres; < 3 acres wetlands or surface waters..... \$ 2,444
- Project area < 100 acres; < 10 acres wetlands or surface waters..... \$ 4,029
- Project area < 640 acres; < 50 acres wetlands or surface waters..... \$ 5,284
- Project area > 640 acres; > 50 acres wetlands or surface waters..... \$ 6,605

**Individual or Conceptual Permit Major Modification (excludes Agriculture, Mitigation Banks)**

- Project area < 10 acres; no wetlands or surface waters; no boat slips..... \$ 1,200
- Project area < 10 acres; < 1 acre wetland or surface waters; < 10 boat slips..... \$ 2,100
- Project area < 40 acres; < 3 acres wetlands or surface waters; < 30 boat slips..... \$ 3,300
- Project area < 100 acres; < 10 acres wetlands or surface waters; < 50 boat slips..... \$ 4,500
- Project area < 640 acres; < 50 acres wetlands or surface waters; < 50 boat slips..... \$ 7,875
- Project area > 640 acres; > 50 acres wetlands or surface waters; > 50 boat slips..... \$ 15,000

**Individual Agriculture or Silviculture Permit Major Modification**

- Project area < 10 acres; < 1 acre wetland or surface water..... \$ 515
- Project area < 40 acres; < 3 acres wetlands or surface waters..... \$ 1,466
- Project area < 100 acres; < 10 acres wetlands or surface waters..... \$ 2,417
- Project area < 640 acres; < 50 acres wetlands or surface waters..... \$ 3,170
- Project area > 640 acres; > 50 acres wetlands or surface waters..... \$ 3,963

**Individual or Conceptual Permit Minor Modification (includes Mitigation Banks)**

- Time Extension of Permit (not associated with SB/HB)..... \$ 500
- Time Extension of Permit (associated with SB/HB)..... \$ 0
- Minor errors not requiring technical review..... \$ 0
- Transfer of ownership..... \$ 0
- Transfer from construction to operation phase..... \$ 0
- All other minor modifications (Letter Modification)..... \$ 250

**New Individual or Conceptual Permit for a Mitigation Bank**

- Permit area < 100 acres..... \$ 7,500

### Water Use Permits

Individual Permit, except Mining/Dewatering

- Max Month Allocation <= 3 MGM .....\$ 350
- Max Month Allocation > 3 MGM <= 15 MGM ..... \$ 1,000

Individual Irrigation < 20 years

- Max Month Allocation > 15 MGM ..... \$ 1,000

Individual Irrigation >= 20 years

- Max Month Allocation > 15 MGM <= 30 MGM ..... \$ 1,600
- Max Month Allocation > 30 MGM <= 300 MGM ..... \$ 3,400
- Max Month Allocation > 300 MGM ..... \$ 5,600

Individual Public Water Supply < 20 years

- Max Month Allocation > 15 MGM <= 30 MGM ..... \$ 2,700
- Max Month Allocation > 30 MGM <= 300 MGM ..... \$ 5,500
- Max Month Allocation > 300 MGM ..... \$ 7,000

Individual Public Water Supply >= 20 years

- Max Month Allocation > 15 MGM <= 30 MGM ..... \$ 4,200
- Max Month Allocation > 30 MGM <= 300 MGM ..... \$ 8,500
- Max Month Allocation > 300 MGM ..... \$11,500

Individual Mining/Dewatering

- Standard Individual Permit <= 1 year..... \$ 500
- Standard Individual Permit > 1 year..... \$ 1,800
- Master Individual Permit ..... \$ 4,000

Individual Industrial < 20 years

- Max Month Allocation > 15 MGM <= 30 MGM ..... \$ 1,400
- Max Month Allocation > 30 MGM <= 300 MGM ..... \$ 2,750
- Max Month Allocation > 300 MGM ..... \$ 3,500

Individual Industrial >= 20 years

- Max Month Allocation > 15 MGM <= 30 MGM ..... \$ 2,000
- Max Month Allocation > 30 MGM <= 300 MGM ..... \$ 3,650
- Max Month Allocation > 300 MGM ..... \$ 5,600

Individual Diversion/Impoundment < 20 years

- Max Month Allocation > 15 MGM <= 30 MGM ..... \$ 1,400
- Max Month Allocation > 30 MGM <= 300 MGM ..... \$ 2,750
- Max Month Allocation > 300 MGM ..... \$ 3,500

Individual Diversion/Impoundment >= 20 years

- Max Month Allocation > 15 MGM <= 30 MGM ..... \$ 2,000



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT RIGHT OF WAY OCCUPANCY PERMITS FEE SCHEDULE

## NOTICE GENERAL PERMIT FEE SCHEDULE

### ***Category "NGP-1" – NO FEE***

This category covers the following types of uses of the right of way which are proposed by individual lot owners in conjunction with adjacent domestic, single family residential land use:

- Bulkheads/Seawalls
- Fences
- Gazebos/Chickee Huts
- Landscaping
- Non-Public Docks, Mooring Facilities and Associated Appurtenances
- Sheds (Temporary Only)
- Utility Services to Docks
- Vegetation Clearing/Removal
- Walkways, Patio Stones and Similar At-Grade Installations

Existing, unpermitted facilities which would otherwise be eligible for a NGP-1 shall pay the category SP-1 fee.

### ***Category "NGP-2" - \$150.00***

This category covers the following types of uses of the right of way which are proposed by homeowner associations and condominium associations which are adjacent to more than one individual lot or dwelling unit:

- Bulkheads/Seawalls
- Fences
- Gazebos/Chickee Huts
- Landscaping
- Non-Public Docks, Mooring Facilities and Associated Appurtenances
- Sheds (Temporary Only)
- Utility Services to Docks
- Vegetation Clearing/Removal
- Walkways, Patio Stones and Similar At-Grade Installations

Existing, unpermitted facilities which would otherwise be eligible for a NGP-2 shall pay the category SP-2 fee.

### ***Category "NGP-3" - \$300.00***

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This category covers the following types of proposed facilities and uses of the right of way which are proposed by developers, builders, corporate entities, utilities, county, state or local entities, as well as other uses not covered in Categories NGP-1, NGP-2 and NGP-4:

- Access - Temporary Use of the Right of Way
- Bulkheads/Seawalls
- Docks, Mooring Facilities and Associated Appurtenances
- Fences
- Filming/Motion Picture Production/Photo Shoot
- Gazebos/Chickee Huts
- Landscaping
- Monitoring Wells
- Pipe and Culvert Connections for Irrigation and/or Drainage
- Sheds (Temporary Only)
- Signs (Informational/Regulatory)
- Storage – Temporary Office/Trailer, Construction Material and/or Equipment
- Utility/Communication Installations (Aerial, Subaqueous, Pile-Supported, Parallel Runs, Underground Feeds, Poles, Anchors, Down Guys, Attachment to Bridges)
- Utility Services to Docks
- Vegetation Clearing/Removal
- Walkways, Patio Stones and Similar At-Grade Installations
- All Other Uses Not Covered in Categories NGP-1, NGP-2 and NGP-4

Existing, unpermitted facilities which would otherwise be eligible for a NGP-3 shall pay the category SP-3 fee.

### ***Category "NGP-4" - \$900.00***

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This category covers the following types of uses of the right of way, which are proposed:

- Bridges – Vehicular (Private and Public), Golf Cart, Pedestrian (Pile-Supported and Free-Span Only); Excludes Culvert Bridges

Existing, unpermitted facilities which would otherwise be eligible for a NGP-4 shall pay the category SP-4 fee.

# STANDARD PERMIT FEE SCHEDULE

## ***Category "SP-1" – \$75.00***

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This category covers the following types of uses of the right of way by individual lot owners in conjunction with adjacent domestic, single family residential land use which do not meet Notice General Permit Criteria:

- Bulkheads/ Seawalls
- Docks, Boat Ramps/Launching Ramps, Mooring Facilities and Associated Appurtenances
- Fences
- Gazebos/Chickee Huts
- Landscaping
- Sheds (Temporary Only)
- Stabilization - Bank/Berm
- Utility Services to Docks
- Vegetation Clearing/Removal
- Walkways, Patio Stones and Similar At-Grade Installations

## ***Category "SP-2" - \$300.00***

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This category covers the following types of uses of the right of way by homeowner associations and condominium associations that are adjacent to more than one individual lot or dwelling unit and do not meet Notice General Permit Criteria:

- Bulkheads/ Seawalls
- Docks, Boat Ramps/Launching Ramps, Mooring Facilities and Associated Appurtenances
- Fences
- Gazebos/Chickee Huts
- Landscaping
- Sheds (Temporary Only)
- Stabilization - Bank/Berm
- Utility Services to Docks
- Vegetation Clearing/Removal
- Walkways, Patio Stones and Similar At-Grade Installations

### **Category "SP-3" - \$625.00**

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This category covers the following types of uses of the right of way by developers, builders, corporate entities, utilities, county, state or local entities, as well as other uses not covered in Categories SP-1, SP-2 and SP-4 and do not meet Notice General Permit Criteria:

- Access - Temporary Use of the Right of Way
- Bulkheads/ Seawalls
- Culvert Connections
- Docks, Boat Ramps/Launching Ramps, Mooring Facilities and Associated Appurtenances
- Dredging
- Fences
- Filming/Motion Picture Production/Photo Shoot
- Gazebos/Chickee Huts
- Landscaping
- Mitigation and Environmental Enhancement
- Monitoring Wells
- Petroleum, Petroleum Product and Pipeline Crossings
- Project Culverts - Use of or Connection to
- Sheds (Temporary Only)
- Signs (Informational/Regulatory)
- Stabilization - Bank/Berm
- Storage – Temporary Office/Trailer, Construction Material and/or Equipment
- Utility/Communication Installations (Aerial, Subaqueous, Pile-Supported, Parallel Runs, Underground Feeds, Poles, Anchors, Down Guys, Attachment to Bridges)
- Utility Services to Docks
- Vegetation Clearing/Removal
- Walkways, Patio Stones and Similar At-Grade Installations
- All Other Uses Not Covered in Categories SP-1, SP-2 and SP-4

### **Category "SP-4" - \$1750.00**

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This category covers the following types of uses of the right of way which do not meet Notice General Permit Criteria:

- Bridges – Vehicular (Private and Public), Golf Cart, Pedestrian (Pile-Supported, Free-Span or Culvert)
- Linear Parks, Greenways and Similar Public Parks and Recreation Projects
- Marinas and Associated Facilities



May 18, 2023  
Revised August 10, 2023

Mr. Alan Gerwig, P.E.  
Alan Gerwig & Associates, Inc.  
12798 W. Forest Hill Boulevard, Suite 201  
Wellington, FL 33414

**Re: Corkscrew Boulevard and Miami Canal, Lake Harbor - Roadway Design Survey  
Palm Beach County Project No. 2021-803**

Dear Alan:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

#### SCOPE OF SERVICES

We will perform a specific purpose/topographic survey under this project and the survey work will be performed in accordance with the current Standards of Practice and Palm Beach County Roadway Design Procedures dated January 2019, and all Palm Beach County requirements. All survey work done will result in a signed and sealed survey drawing (all to be delivered to the County office for review and approval) in accordance with all applicable requirements, Roadway Design standards of 2019 (Appendix C, D & F), codes, rules and Statutes governing Surveying and Mapping.

#### I. HORIZONTAL PROJECT NETWORK CONTROL

Using the information supplied by Palm Beach County, we will establish the Right-of-Way for Corkscrew Boulevard. A traverse will be run through the route and found monumentation will be tied in. The survey will be oriented to Palm Beach County horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department. We will prepare a project network control (PNC) sheet meeting Palm Beach County standards. The Project Network Control (PNC) sheets will be part of the survey, signed, certified signed & sealed within the survey.

The limits of the survey are 200' along Corkscrew Boulevard on both approaches, and 100' down the four (4) side streets, Miami Canal Road (north and south), Azaleat Court, Mutt Thomas Quarters (see included map).

#### II. RIGHT-OF-WAY

We will review and compile any title information furnished to us for the rights-of-way (R/W), abutting properties, easements, and restrictions. No search of the Public Records will be performed by Brown & Phillips. We will review the title package and plot all right-of-way documents and easements on the Survey and alert the County of any missing R/W segments that make up the entire R/W corridor. All gaps or overlaps will be brought to the County's attention.

#### III. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed along the route using the existing Palm Beach County benchmarks (NAVD 1988). Benchmarks will be set along the route, not exceeding 600 feet apart. All benchmarks will be set outside of the proposed limits of construction.

1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409

(561) 615-3988 • Fax (561) 615-3991

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Gerwig  
August 10, 2023  
Page 2

#### **IV. BASELINE LAYOUT**

We will lay out the baseline at 100-foot intervals setting appropriate points at each station. These baseline points will be used in the topographic and cross section phase to locate features and facilitate checks.

#### **V. HORIZONTAL CONTROL POINTS**

The historic baseline of survey (if available) will be tied to a pair of PBCo. Horizontal Control Points at each end of the baseline. Stations and offsets and State Plane Coordinates and monumentation will be labeled at begin and end of historic baseline as well as PI's, PC's, PT's, PRC's and PCC's along the baseline not to exceed 1000 feet between control stations. All monumentation along the historic baseline will be referenced to the intervisible random project control monumentation. We propose to set four (4) horizontal control points.

#### **VI. SECTION TIES AND PROPERTY TIES**

We will tie in section corners and property corners along the route to check the present alignment of Corkscrew Boulevard. We will try to locate as many corners as possible to positively establish the current rights of way. However, this is an old, long-established neighborhood which is historically without monumentation, readily retracable boundaries, and right-of-way maps. We will tie in a minimum of two (2) Palm Beach County geodetic points to meet County requirements. Subdivision corners, section corners and other existing control monumentation that will assist in the establishment of the R/W will be located and shown on the Survey.

#### **VII. SIDE STREET SURVEYS**

A topographic survey will be done on all side streets to 100 feet from the right of way line of Corkscrew Boulevard. This survey will show the edge of pavement and all above ground features to 25 feet outside of the existing right of way.

#### **VIII. TOPOGRAPHY**

A topographic survey will be performed along the route. This survey will tie in all visible features such as, but not limited to, signs, light poles, guardrails, utilities, walks, edge of pavement, curbing, drainage structures, striping, etc. These locations will show all features within the corridor from right of way to right of way extending to 25 feet outside the proposed right of way (if provided prior to start of the field work).

#### **IX. CROSS SECTIONS and TIN CREATION (DTM)**

Cross sections will be done along the route at 50' intervals. These cross sections will cover the roadway to the right of way lines and extend to 25 feet outside of the right of way (if provided prior to start of the field work). In addition, we will prepare a TIN file and all the corresponding break lines for the design of the roadway. Since a TIN is required this will entail additional shots to be taken on the cross sections to accurately depict the existing conditions.

#### **X. AS-BUILTS**

We will attempt to get as-built information on all the pipes leading out of any storm structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

Gerrwig  
 August 10, 2023  
 Page 3

#### XI. BRIDGE SURVEY AND SOUNDINGS

We will locate the existing bridge corners and show the top of the bridge on the survey. We will obtain soundings across the Miami Canal under direction from AGA, at north and south sides of the bridge. We estimate that we will need twelve (12) cross sections over the canal as shown below:

##### North of Bridge:

- At north face of existing bridge
- 25' north of bridge
- 75' north of bridge
- 125' north of bridge
- 175' north of bridge
- 275' north of bridge
- 375' north of bridge

##### South of Bridge:

- At south face of bridge
- 25' south of bridge
- 75' south of bridge
- 125' south of bridge
- 175' south of bridge

In addition, we will locate the lock that exists north of the bridge and show it on the survey. A detailed bridge survey is not included in our scope, since the bridge will be removed. No bridge modeling or scanning is proposed.

#### XII. TREE LOCATIONS

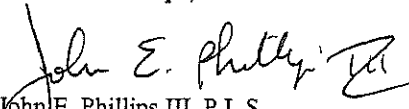
We will locate the native trees (4" and larger measured at breast height) and shrubs/hedges within the right of way on both north and south sides of Corkscrew Boulevard. These will be shown on the CADD file with types and caliper sizes. Not a tree survey.

#### XIII. CLOSURE

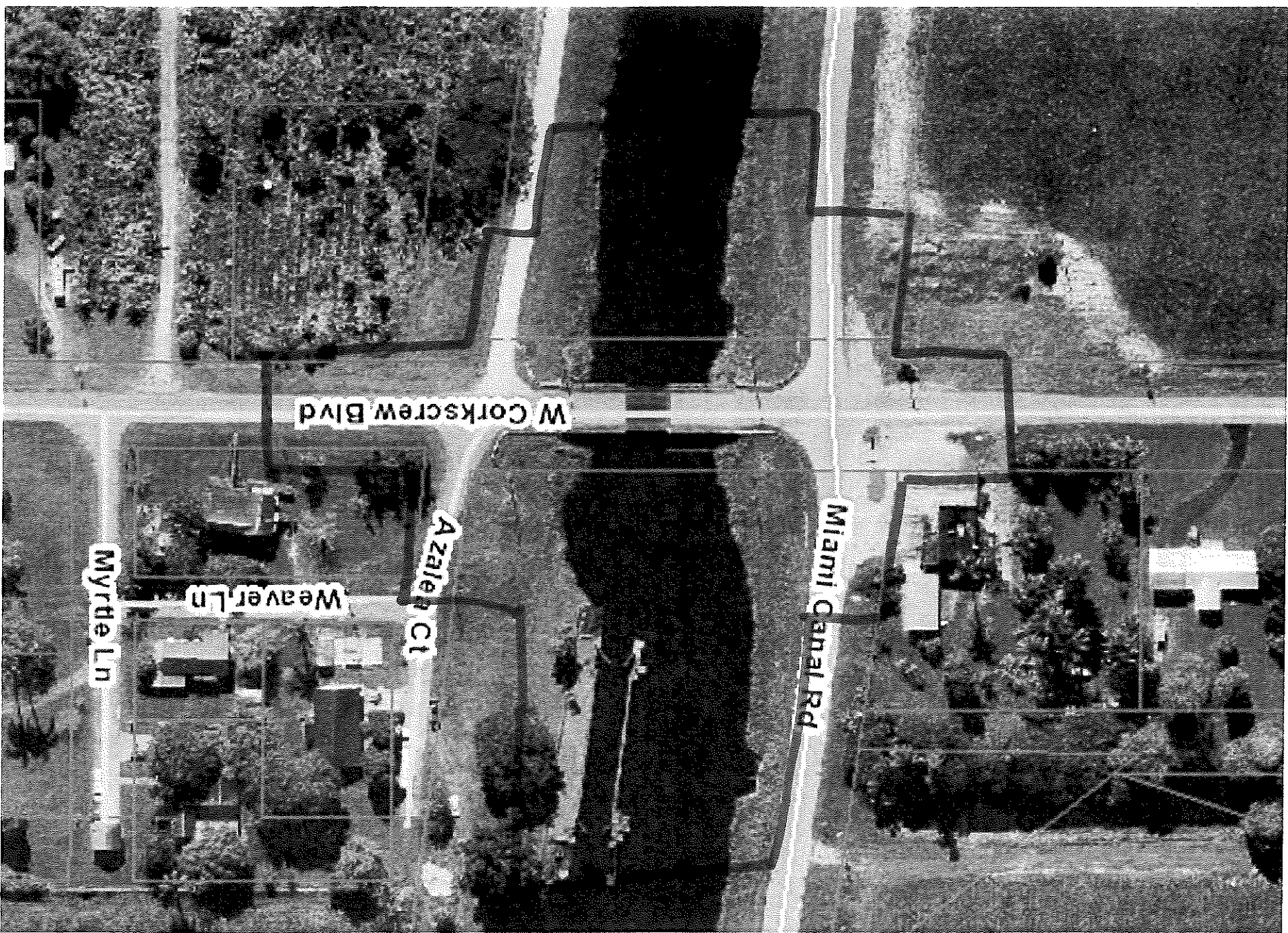
A certified signed and sealed Topographic Survey (11" x 17" sheets on a 1" = 40' scale) will be prepared and delivered, to be included with the engineering plans (sheets SURX-SURXX) showing the existing right-of-way and supporting record information in addition to all improvements as outlined. We will also provide a printout of the right-of-way information in hard copy and digital format (CAD and PDF), as part of the approved survey plan submittal, showing labels referencing each document used to plot the right-of-way. We propose to provide AGA and Palm Beach County Survey Section with 1 set certified, signed & sealed, of the Survey, 1 set in PDF digitally signed and CAD files in the version requested. We will perform the scope of services for a **lump sum fee of \$27,004.20** (see Table 'A' for an hourly breakdown). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

**Brown & Phillips, Inc.**

  
 John E. Phillips III, P.L.S.  
 Principal

JEP/mb



Project Activity 14: Survey - Field						
Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.1	Horizontal Project Control (HPC)					
	2-Lane Roadway	LF	1	5	5	
	Multi-lane Roadway	LF	0	0	0	
14.2	Vertical PC / Bench Line					
	2-Lane Roadway	LF	1	8	8	
	Multi-lane Roadway	LF	0	0	0	
14.3	Reference Points					
	2-Lane Roadway	EA	1	4	4	
	Multi-lane Roadway	EA	0	0	0	
14.4	Baseline Layout	LF	1	2	2	
14.5	Section, Subdivision & Property Ties	EA	1	8	8	
14.6	Topography/DTM (3D)	LF	1	5	5	
14.7	Cross Sections	EA	1	5	5	
14.8	Side Street Surveys	LF	1	6	6	
14.9	SUE	EA	0	0	0	Optional Services
14.10	Locates - Pothole	EA	0	0	0	
14.11	Outfall Survey	LF	0	0	0	
14.12	Drainage Survey	EA	0	0	0	Obtain rim and invert elevations with pipe details in structures
14.13	Bridge Survey	EA	0	0	0	

Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
14.14	Canal Survey	LF	1	16	16	Obtain canal cross sections on each side of roadway
14.15	Channel Survey and Soundings	LS	1	0	0	
14.16	Pond Site Survey	EA	0	0	0	(Provide Description of site - How heavily forested?)
14.17	Jurisdictional Line Survey	LS	1	0	0	
14.18	Tree Survey	LS	1	0	0	Locate trees within right-of-way
14.19	Route/Corridor Survey	LF	0	0	0	
14.20	Boundary Survey	LS	1	0	0	
14.21	Topographic Survey	LS	1	0	0	
14.22	Specific Purpose Survey	LS	1	0	0	
14.23	Hydrographic Survey	LS	1	0	0	
14.24	Quantity Survey	LS	1	0	0	
14.25	Record/As-Built Survey	LS	1	0	0	
14.26	R/W Staking					
	Parcel	EA	0	0	0	
	R/W Line	LF	0	0	0	
14.27	Meetings	EA	0	0	0	(LIST)
<b>14. Survey - Field Total</b>					<b>59</b> ✓	

Project Activity 15: Survey Plans						
Task No.	Task	Units	No. of Units	Hours/ Unit or Sheet	Total Hours	Comments
15.1	Alignment	LF	1	1	1	
15.2	Section and 1/4 Section Lines	Section	1	5	5	
15.3	Subdivisions / Property Lines	EA	1	5	5	
15.4	Existing R/W	LF	1	2	2	
15.5	Topography	LF	1	8	8	
15.6	Parent Tract Properties/Existing Easements	EA	0	0	0	
15.7	Title Review	LS	1	20	20	
15.8	Jurisdictional/Agency Lines	LF	0	0	0	
15.9	Survey Key Sheet	Sheet	1	6	6	
15.10	Survey Detail & Legend Sheet	Sheet	1	5	5	
15.11	Reference Point Sheet	Sheet	1	10	10	
15.12	Project Control Sheet	Sheet	1	10	10	
15.13	Specific Purpose & Topographic Survey	Sheet	1	74	74	
15.14	Boundary Survey	EA	0	0	0	(LIST)
15.15	Technical Meetings	EA	0	0	0	(LIST)
<b>15. Survey Plans Total</b>					<b>146</b>	

Estimate of Work Effort and Cost

Name of Project:		Corkscrew Boulevard and Miami Canal						Consultant Name:		Brown & Phillips, Inc.	
PBC Project Number:		2021903						Consultant Number:		BROW0082	
								Date:		8/10/2023	
Task Description	Total Staff Hours	Staff Categories						Staff Hours By Activity	Salary Cost By Activity	Average Rate Per Task	
		Principal Surveyor (PLS)	Project Surveyor/Mapper (PLS)	Survey Technician	CAD Technician	3 Man Crew	2 Man Crew				
		\$42.00	\$42.00	\$31.00	\$31.00	\$65.60	\$50.60				
<b>BASIC SERVICES</b>											
1 Survey - Field	59.0					59.0		59.0	\$3,870.40	\$ 65.60	
2 Survey - Plans	146.0		55.0	31.0	60.0			146.0	\$5,131.00	\$ 35.14	
3	0.0							0.0	\$0.00	#DIV/0!	
4	0.0							0.0	\$0.00	#DIV/0!	
5	0.0							0.0	\$0.00	#DIV/0!	
6	0.0							0.0	\$0.00	#DIV/0!	
7	0.0							0.0	\$0.00	#DIV/0!	
<b>Total Staff Hours (Basic Services)</b>	<b>205.0</b>	<b>0.0</b>	<b>55.0</b>	<b>31.0</b>	<b>60.0</b>	<b>59.0</b>	<b>0.0</b>	<b>205.0</b>	<b>\$9,001.40</b>	<b>43.91</b>	
<b>Total Staff Cost (Basic Services)</b>		<b>\$0.00</b>	<b>\$2,310.00</b>	<b>\$961.00</b>	<b>\$1,860.00</b>	<b>\$3,870.40</b>	<b>\$0.00</b>				
<b>OPTIONAL SERVICES</b>											
1	0.0							0.0	\$0.00	#DIV/0!	
2	0.0							0.0	\$0.00	#DIV/0!	
3	0.0							0.0	\$0.00	#DIV/0!	
4	0.0							0.0	\$0.00	#DIV/0!	
<b>Total Staff Hours (Optional Services)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>\$0.00</b>	<b>#DIV/0!</b>	
<b>Total Staff Cost (Optional Services)</b>		<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>				

Basic Services:	
Salary Related Costs:	\$9,001.40
Contract Multiplier	3.00
<b>Subtotal Basic Services (Prime Firm):</b>	<b>\$27,004.20</b>
Basic Services (Subconsultant 1)	\$0.00
Basic Services (Subconsultant 2)	\$0.00
<b>Subtotal Basic Services (Subconsultants)</b>	<b>\$0.00</b>
<b>Basic Services Total:</b>	<b>\$27,004.20</b>
Reimbursables:	
Prime Consultant	\$0.00
Subconsultant 1	\$0.00
Permit Fees	\$0.00
Printing	\$0.00
<b>Reimbursables Total:</b>	<b>\$0.00</b>
Optional Services:	
Prime Consultant (Unloaded)	\$0.00
Contract Multiplier	3.00
Prime Consultant (Loaded)	\$0.00
Subconsultant 1	\$0.00
Sketch and Legal Descriptions (Survey Firm)	\$0.00
<b>Optional Services Total:</b>	<b>\$0.00</b>
<b>Grand Total Estimated Fees:</b>	<b>\$27,004.20</b>



**Alan Gerwig & Associates**  
12798 W. Forest Hill Blvd, Suite 201  
Wellington, FL 33414

May 3, 2023

Attention: Mr. Alan Gerwig, PE, LEED AP  
President

Re: Scope of Services for Geotechnical Engineering Services  
**Corkscrew Blvd Bridge Replacement**  
Corkscrew Blvd at 100 ft East of Miami Canal Rd  
Lake Harbor, Palm Beach County, Florida  
PACIFICA Proposal No.: 610-12015228

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Dear Mr. Gerwig:

**Pacifica Engineering Services, LLC (PACIFICA)**, is pleased to submit this scope of services to perform a subsurface exploration program for the above-referenced project. Included herein is our understanding of the proposed development along with a scope of services.

This project includes the design and construction of a bridge replacement at Corkscrew Blvd.

The current plan is to replace the existing bridge with a new two-lane bridge with a span length of 160 ft. The bridge is to be supported on concrete driven piles with anticipated nominal bearing resistance loads of 210 tons and 160 tons for the intermediate bent and end bent piles, respectively. The grades of the approach slab and deck could potentially be raised a few inches.

#### **GEOTECHNICAL SCOPE OF SERVICES**

PACIFICA proposes to perform the following geotechnical field services:

- Perform Three (3) Standard Penetration Test (SPT) borings, one at each end bent (land) in the west bound to a depth of 100 feet and one in the middle of the bridge (from deck) in the west bound to a depth of 100 feet below existing grades.

The SPT borings will be performed with truck-mounted machinery using rotary drilling procedures. Samples of the in-place materials will be recovered with a standard split barrel driven with a 140-pound hammer falling 30 inches (the Standard Penetration Test in accordance with ASTM D1586). After completion of drilling, all boreholes will be grouted, asphalt cold patch applied where needed, and the site generally cleaned, as required. SPT borings and Asphalt Cores will not be performed in the wheel path.

Underground utility clearance will be required prior to the commencement of the geotechnical field exploration. Therefore, PACIFICA will contact "Sunshine One-Call" Service to obtain underground public utility clearance. PACIFICA understands that private utilities will be marked by others prior to each mobilization.

Maintenance of Traffic (MOT) will be needed to perform the geotechnical scope of work. PACIFICA will submit MOT plans with an estimated schedule in accordance with FDOT standards for PBC for approval prior to the start of fieldwork. PACIFICA will use FDOT Maintenance of Traffic (MOT) Plans Design Standards Index Series 600 when developing MOT plans.



**GEOTECHNICAL REPORT**

After the geotechnical field exploration is completed, a geotechnical engineer will review the soil samples and select samples will be tested for physical properties such as gradation, moisture content, and organic content, if deemed necessary. The results of the geotechnical exploration will be transmitted in a report which will specifically contain the information listed below:

1. A location plan of the site showing the location of the soil borings.
2. CAD Soil profiles for the exploratory borings, which furnish the results of the SPT sampling.
3. Results of the FDOT corrosion series testing and laboratory test results.
4. The existence of organic soils or any other soil conditions.
5. Foundation Axial Capacities
6. FB pier soil parameters for lateral analysis.
7. Retaining Wall Design Parameters (temporary and permanent)
8. Provide mitigation for vibration and settlement (100% PDA / pre-drilling to minimum tip elevations).
9. Report

**PERMITS ARE NOT INCLUDED.**

**ELEVATIONS AT BORING LOCATIONS, IF REQUIRED, WILL NEED TO BE PROVIDED BY OTHERS.**

**BORING TO BE TAKEN VIA HOLES THRU DECK (TO BE COORDINATED WITH STRUCTURAL ENGINEER FOR LOCATION AND LOCATED WITH THE SURVEYORS).**

DESCRIPTION	UNIT	# OF UNITS	UNIT RATE	TOTAL
<b>I. FIELD EXPLORATIONS</b>				
Mobilization of Drill Equipment (50-mile travel)	each	1.0	\$420.00	\$420.00
Standard Penetration Tests - Truck Rig (0' - 50')	feet	150.0	\$16.00	\$2,400.00
Standard Penetration Tests - Truck Rig (51' - 100')	feet	150.0	\$19.00	\$2,850.00
Grout Bore Hole (0 to 50 Feet)	feet	150.0	\$6.40	\$960.00
Grout Bore Hole (51 to 100 Feet)	feet	150.0	\$7.50	\$1,125.00
Casing (0 to 50 Feet)	feet	150.0	\$9.80	\$1,470.00
Casing (51 to 100 Feet)	feet	150.0	\$10.00	\$1,500.00
Engineering Technician (Site Reconnaissance, Boring Layout and Underground Utility Clearance) (Raw Rate: \$31*3)	hour	10.0	\$93.00	\$930.00
Engineering Technician (Drilling oversight) (Raw Rate: \$31*3)	hour	30.0	\$93.00	\$2,790.00
<b>II. SOIL &amp; AGGREGATE TESTING</b>				
Organic Content Test	each	2.0	\$55.00	\$110.00
DOT Corrosivity - (pH, sulfate, chlorides & conductivity)	each	1.0	\$205.00	\$205.00
Natural Sample Moisture Content	each	5.0	\$20.00	\$100.00
Grain size determination: Full grain size (8 sieves)	each	3.0	\$78.00	\$234.00
Senior Geotechnical Engineer (Raw Rate: \$49.05*3)	hour	2.0	\$207.90	\$415.80
<b>III. ENGINEERING SERVICES (MULTIPLIER: 2.52)</b>				
Principal Engineer, P.E. (Raw Rate: \$84.10*3)	hour	4.0	\$252.30	\$1,009.20
Senior Engineer (Raw Rate: \$69.3*3)	hour	20.0	\$207.90	\$4,158.00
Engineer P.E. (Raw Rate: \$49.05*3)	hour	14.0	\$147.15	\$2,060.10
<b>IV. REIMBURSABLE NOT ADDRESSED IN FEE SCHEDULE</b>				
Maintenance of Traffic (MOT) & Traffic Control Devices (TTC)	day	4.0	\$1,650.00	\$6,600.00
<b>TOTAL BASIC SERVICES</b>				<b>\$29,337.10</b>




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**PROPOSAL FOR A WORK PLAN FOR THE CORKSCREW BOULEVARD BRIDGE (FDOT BRIDGE # 934502) OVER THE MIAMI CANAL PROJECT IN PALM BEACH COUNTY**

**November 9, 2021** Revised 8/31/2023

Janus Research will develop a work plan for the investigation of potential burials and cultural resources for the Corkscrew Boulevard Bridge (FDOT Bridge # 934502) over the Miami Canal project in Palm Beach County. The primary objective of the work plan is to develop a respectful and inclusive approach to investigating the potential location of an African-American burial place that may be located within the project area. Secondary objectives are to address archaeological the potential and previously recorded and potential historic resources within and adjacent to the project area, analyze the archaeological potential of the project area, and outline an approach that will comply with Section 106 of the *National Historic Preservation Act (NHPA) of 1966* (Public Law 89-665, as amended), as implemented by 36 CFR 800 (*Protection of Historic Properties*); Chapter 267, *Florida Statutes (F.S.) (Florida Historical Resources Act)*; and Chapter 872.05, *F.S. (Offenses Concerning Dead Bodies and Graves)*.

Research conducted by Palm Beach County in 2007, suggested that unmarked African-American burials associated with the 1928 Okeechobee hurricane may be located within the project area but their locations have not been confirmed. Research will be conducted to develop sensitive community outreach efforts to inform the work plan, as well as any future investigations. Remote sensing technologies will also be explored to identify the value of non-invasive methods of investigation. Coordination will be conducted with the State Historic Preservation Officer (SHPO), Florida State Archaeologist, the South Florida Water Management District, and the Palm Beach County Historic Preservation Officer to identify specific concerns relative to Section 106, Chapter 267, *F.S.*, Chapter 872.05, *F.S.*, and Palm Beach County.

In addition to the above research, a pedestrian survey and research will be conducted to inform the archaeological probability of the project area and provide an evaluation of the National Register of Historic Places (National Register) eligibility of the following historic resources:

- Corkscrew Boulevard Bridge (FDOT Bridge # 934502): National Register eligibility not evaluated by the SHPO, but may represent a rare bridge type and is likely National Register-eligible;
- Miami Canal Resource Group (8PB13369): determined National Register-eligible in 2011 by the SHPO;
- Lake Harbor Historic District (8PB8113): National Register eligibility not evaluated by the SHPO, but Palm Beach County identified it as a potential local historic district in 1995;
- Lock 1 Miami Canal (8PB1934): National Register eligibility not evaluated by the SHPO, but likely National Register-eligible;

*Work Plan*  
*Corkscrew Boulevard Bridge (FDOT Bridge # 934502) over the Miami Canal (L-25) Project*  
*November 9, 2021*

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- Austin House/7 W. Corkscrew Boulevard (8PB1938): National Register eligibility not evaluated by the SHPO, but considered eligible in 1990 survey report;
- Bryant Store (8PB1947): National Register eligibility not evaluated by the SHPO; and
- 15 W. Corkscrew Boulevard (not yet recorded): Palm Beach County property appraiser data identified the parcel as containing a potential unrecorded historic resource.

The archaeological and historic research will include a review of Florida Master Site File (FMSF) data, other pertinent publications and newspaper articles, historic maps, aerial photographs, and U.S. Geological Survey (USGS) topographical maps. Environmental variables will also be analyzed to determine the potential for significant archaeological resources within the project area. The historic research will also include an evaluation of the area(s) of historical significance and boundaries for each National Register-eligible resource as well as photographs and maps showing their locations. The steps and documentation needed to complete the Section 106 process will also be clearly outlined in the work plan.

Upon completion of the research and pedestrian survey a work plan and associated costs, will be prepared for transmittal to Palm Beach County. A meeting to discuss the work plan and address comments will also be arranged, if needed.

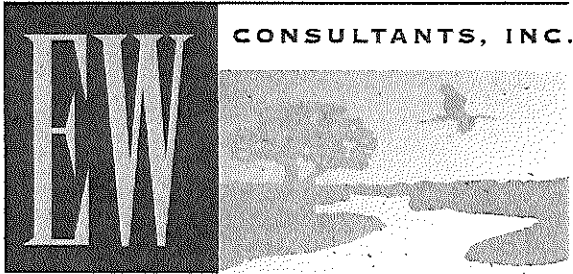
**JANUS RESEARCH**  
**Cost Proposal**  
**Corkscrew Boulevard Bridge over Miami Canal,**  
**Palm Beach County**



**November 9, 2021** Revised 12/21/2023

POSITION	HOURS	RAW RATE	MULTIPLIER	LOADED RATE	TOTAL
Project Manager	8	\$ 70.00	2.32	\$ 162.40	\$ 1,299.20
Principal Investigator	80	\$ 43.13	2.32	\$ 100.06	\$ 8,004.93
Project Archaeologist	24	\$ 28.75	2.32	\$ 66.70	\$ 1,600.80
Senior Architectural Historian	8	\$ 54.60	2.32	\$ 126.67	\$ 1,013.38
Architectural Historian	40	\$ 42.00	2.32	\$ 97.44	\$ 3,897.60
Graphics Specialist	7	\$ 20.70	2.32	\$ 48.02	\$ 336.17
				<b>Total Labor \$</b>	<b>16,152.08</b>

**TOTAL LABOR & EXPENSES** **\$ 16,152.08** ✓



May 3, 2023

Mr. Alan Gerwig  
Alan Gerwig & Associates, Inc.  
12798 W Forest Hill Blvd, Suite 201  
Wellington, FL 33414

Via E-mail: [agerwig@aga-engineering.com](mailto:agerwig@aga-engineering.com)

**RE: Corkscrew Blvd Bridge Environmental Services;  
Palm Beach County, Florida**

Dear Mr. Gerwig:

EW Consultants, Inc. is pleased to provide this letter agreement for professional environmental consulting services. Pursuant to our conversations, we understand you are in need of environmental assessment and permitting services for this project. Based on this understanding, we have prepared the following scope of services, schedule and fees for your review.

### **SCOPE OF SERVICES**

#### **Task 1. Environmental Assessment and Wetland Delineation**

We will review project area information and conduct field reconnaissance to map approximate locations or boundaries of vegetative communities, native upland habitat, exotic vegetation, and wetland or surface water areas which are considered jurisdictional by U.S. Army Corps of Engineers (COE) and South Florida Water Management District (SFWMD). Boundaries of any wetlands will be flagged with numbered surveyors tape and flag locations will be recorded using GPS. We will also record any observation or indication of occurrence or habitat of protected plant(s) or animal(s), and any other apparent significant environmental resources. We will prepare an Environmental Assessment Report documenting the results of the environmental assessment. The report will include narrative text, graphics, and recommendations for proceeding. The report information may be used in support of plan approval submittals and any other relevant applications.

#### **Task 2 – Agency Review of Wetland Boundaries**

We will prepare documentation including wetland mapping and COE data sheets, and conduct field verification meetings with SFWMD and COE staff to confirm the delineated wetland boundaries, or the absence of wetlands. We will coordinate with project engineers and/or surveyors in locating any delineated boundaries and submit final survey to the agencies for verification.

#### **Task 3 – Agency Permitting Assistance**

We will provide environmental documentation and support to facilitate issuance of an Environmental Resource Permit from SFWMD. We will prepare and submit application materials to the COE for use of a

Nationwide Permit to allow for minor impacts to the drainage canal and any other wetlands within the project boundaries. The application support information will include a wetland mitigation plan, wetland avoidance and minimization discussion, wetland functional scoring, and other requested information. We will also provide any necessary project information relating to native vegetation impacts to Palm Beach County Department of Environmental Resources Management (ERM). We will coordinate with staff from each agency to address comments or requests for additional information. The fee associated with this task includes one RAI response to each permitting agency.

**Task 4. Florida Bonneted Bat Limited Roost Survey**

We will conduct a Limited Roost Survey for the Florida Bonneted Bat. The survey will include a habitat assessment, inspection for any potential roost trees or structures, and detailed visual inspection of all potential roost structures, including under the existing bridge. We will document the results of the survey in a detailed report that will include methods, narrative text and graphics. We will submit the report to COE and will coordinate with COE and U.S. Fish & Wildlife Service (FWS) staff as necessary to facilitate review and approval of the report.

**FEES AND BILLING**

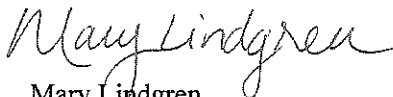
We will provide the services described in Tasks 1-4 in accordance with the fee schedule provided below. All direct expenses are billed at cost, and are included in the task fee amounts.

<b>Task</b>	<b>Description</b>	<b>Fee Amount</b>
1	Environmental Assessment/Wetland Delineation	\$ 2,910.36
2	Agency Review of Wetland Boundaries	\$ 1,970.28
3	Agency Permitting Assistance	\$ 5,921.28
4.	FBB Limited Roost Survey	\$ 5,111.16

Billing is monthly based on percentage complete of lump sum efforts and hourly effort and direct expenses for any Additional Services. All invoices are due and payable within 30 days of receipt by the Client. If you would like us to proceed with these services, please sign this agreement in the space provided below and return it to us. This will be considered notice to proceed.

We look forward to the opportunity to assist you on this project, and if you have any questions, please feel free to call me.

Sincerely,  
EW Consultants, Inc.

  
Mary Lindgren  
Environmental Project Manager

TASK	Senior Professional	Project Manager	Environmental Scientist	CADD Technician	Field Scientist	EXPENSE	TOTAL SALARY COST	TOTAL HOURS
	\$ 41.67	\$ 33.34	\$28.34	\$28.34	\$25.00			
TASK 1. ENVIRONMENTAL ASSESSMENT/WETLAND DELINEATION	0	12	0	6	16		\$ 970.12	34
SUBTOTAL TASK 1	0	12	0	6	16	\$ -	\$ 970.12	34
TASK 2. AGENCY REVIEW OF WETLAND BOUNDARIES	0	12	0	2	8		\$ 656.76	22
SUBTOTAL TASK 2	0	12	0	2	8	\$ -	\$ 656.76	22
TASK 3. AGENCY PERMITTING ASSISTANCE	0	32	24	8	0		\$ 1,973.76	64
SUBTOTAL TASK 3	0	32	24	8	0	\$ -	\$ 1,973.76	64
TASK 4. FBB LIMITED ROOST SURVEY	0	12	40	6	0		\$ 1,703.72	58
SUBTOTAL TASK 4	0	12	40	6	0	\$ -	\$ 1,703.72	58
PROJECT SUMMARY TOTAL TASKS 1-4	0	68	64	22	24	0	\$5,304.36	178
PROJECT FEE TOTAL TASKS 1-4	\$0.00	\$2,267.12	\$1,813.76	\$623.48	\$600.00	\$0.00	\$5,304.36	

\*3.0 Contract Multiplier = \$ 15,913.08 TOTAL FEE



SOLICITATION/PROJECT/BID NAME: Corkscrew Blvd. Bridge Replacement (Bridge #934502)

SOLICITATION/PROJECT/BID NO.: 2021802

SOLICITATION OPENING/SUBMITTAL DATE: June 14, 2022

COUNTY DEPARTMENT: Roadway Production Division

**Section A** PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT\* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Alan Gerwig & Associates

ADDRESS: 12798 W. Forest Hill Blvd., Ste 201, Wellington, FL 33414

CONTACT PERSON: Alan Gerwig

PHONE NO.: 561-792-9000

E-MAIL: agerwig@gm2inc.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$293,108.00

\*SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE  MBE  WBE  SBE

**Section B** PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE Minority Business	WBE Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Asian	Other
	1. Brown & Phillips, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$27,004.20				
2. Pacifica Engineering Services, LLC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$29,337.10					
3. EW Consultants, Inc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				\$15,913.08		
4. Janus Research, Inc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				\$16,152.08		
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

(Please use additional sheets if necessary)

Total \$56,341.80

\$32,065.16

Total Bid/Offer Price \$ \$381,514.46

Total Certified S/M/WBE Participation \$ \$72,254.38

I hereby certify that the above information is accurate to the best of my knowledge: Alan Gerwig

Name & Authorized Signature

President

Title

- Note:**
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
  - Only those firms certified by Palm Beach County at the time of solicitation opening or due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
  - Modification of this form is not permitted and will be rejected upon submittal.

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2021802

SOLICITATION/PROJECT NAME: Corkscrew Blvd. Bridge Replacement (Bridge #934502)

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: N/A

**(Check box(s) that apply)**

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): \_\_\_\_\_

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	<input type="checkbox"/> Supplier

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Structural Engineering Services				\$293,108.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$293,108.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: \_\_\_\_\_

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.

Print Name of Prime

By: [Signature]  
Authorized Signature

Alan Gerwig, P.E.

Print Name

President

Title

Date: 05/06/2024

Print Name of Subcontractor/subconsultant

By: \_\_\_\_\_  
Authorized Signature

Print Name

Title

Date: \_\_\_\_\_

OEBO LETTER OF INTENT – SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2021802  
 SOLICITATION/PROJECT NAME: Corkscrew Blvd. Bridge Replacement (Bridge #934502)

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: Brown & Phillips, Inc.

(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 1/31/22-1/30/25

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	<input type="checkbox"/> Caucasian American <input type="checkbox"/> Supplier

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	5.02: Surveying Services				\$27,004.20

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$27,004.20

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: \_\_\_\_\_  
 Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.  
 Print Name of Prime  
 By: [Signature]  
 Authorized Signature  
Alan Gerwig, P.E.  
 Print Name  
President  
 Title  
 Date: 05/06/2024

Brown & Phillips, Inc.  
 Print Name of Subcontractor/subconsultant  
 By: [Signature]  
 Authorized Signature  
Anthony S. Brown  
 Print Name  
CEO  
 Title  
 Date: 05/14/2024

OEBO LETTER OF INTENT – SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2021802

SOLICITATION/PROJECT NAME: Corkscrew Blvd. Bridge Replacement (Bridge #934502)

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: Pacifica Engineering Services, LLC

(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 10/25/21-10/24/24

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	<input type="checkbox"/> Caucasian American <input type="checkbox"/> Supplier

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	6.01, 6.02: Geotechnical Engineering Services				\$29,337.10

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$29,337.10

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: \_\_\_\_\_

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.  
 Print Name of Prime

By: [Signature]  
 Authorized Signature

Alan Gerwig, P.E.  
 Print Name

President  
 Title

Date: 05/06/2024

Pacifica Engineering Services, LLC  
 Print Name of Subcontractor/subconsultant

By: [Signature]  
 Authorized Signature

Wesley Foster  
 Print Name

President  
 Title

Date: 5/21/2024

OEBO LETTER OF INTENT - SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2021802

SOLICITATION/PROJECT NAME: Corkscrew Blvd. Bridge Replacement (Bridge #934502)

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: EW Consultants, Inc.

(Check box(s) that apply)

[X] SBE [ ] WBE [ ] MBE [ ] M/WBE [ ] Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 4/5/24-4/4/27

The undersigned affirms they are the following (select one from each column if applicable):

Column 1: [X] Male [ ] Female; Column 2: [ ] African-American/Black [ ] Asian American [X] Caucasian American [ ] Hispanic American [ ] Native American; Column 3: [ ] Supplier

S/M/WBE PARTICIPATION - S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Table with 6 columns: Line Item, Item Description, Unit Price, Quantity/Units, Contingencies/Allowances, Total Price/Percentage. Row 1: Environmental Engineering Services, \$15,913.08

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$15,913.08

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2. N/A

Alan Gerwig & Associates, Inc. Print Name of Prime; By: [Signature] Authorized Signature; Alan Gerwig, P.E. Print Name; President Title; Date: 05/06/2024

EW Consultants, Inc. Print Name of Subcontractor/subconsultant; By: [Signature] Authorized Signature; Ed Weinberg Print Name; President Title; Date: 5/15/2024

OEBO LETTER OF INTENT – SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 2021802

SOLICITATION/PROJECT NAME: Corkscrew Blvd. Bridge Replacement (Bridge #934502)

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: Janus Research, Inc.

(Check box(s) that apply)

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	<input type="checkbox"/> Supplier

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Archaeological and Historic Research and Work Plan Services				\$16,152.08

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$16,152.08

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: \_\_\_\_\_

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.  
 Print Name of Prime  
 By: [Signature]  
 Authorized Signature  
Alan Gerwig, P.E.  
 Print Name  
President  
 Title  
 Date: 05/06/2024

Janus Research, Inc.  
 Print Name of Subcontractor/subconsultant  
 By: [Signature]  
 Authorized Signature  
Kenneth Hardin  
 Print Name  
President  
 Title  
 Date: 5/21/2024





**Palm Beach County  
Compliance Summary Report**

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00001964	Alan Gerwig & Associates, Inc.		Compliant					2022057	Alan Gerwig & Associates, Inc.
		Ag , XV	The Continental Insurance Company	7036299435	1/1/2024	1/1/2025	Excess Liability		
		Ag , XV	Valley Forge Insurance Company	7036299421	1/1/2024	1/1/2025	General Liability		
		A++ , XV	Travelers Casualty and Surety Company of America	107965531	1/1/2024	1/1/2025	Professional Liability		
		Ag , XV	American Casualty Company of Reading, Pennsylvania	7036299449	1/1/2024	1/1/2025	Workers Comp		

**Risk Profile :** Standard - Professional Services  
**Required Additional Insured :** Palm Beach County Board of County Commissioners  
**Ownership Entity :**