

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

| Fiscal Years | 2023 | 2024 | 2025 | 2026 | 2027 |
|---|-------------------|------------|------------|------------|------------|
| Capital Expenditures | \$ 391,269 | -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 | \$ 391,269 | -0- | -0- | -0- | -0- |
| # ADDITIONAL FTE POSITIONS (Cumulative) | -0- | -0- | -0- | -0- | -0- |

Is Item Included in Current Budget?

Yes No

Does this item include the use of federal funds?

Yes No

Budget Account No:

Fund 3950 Dept 361 Unit 1657 Object 6505-AE10

Recommended Sources of Funds/Summary of Fiscal Impact:

Local Government One-Cent Infrastructure Surtax
Jupiter Beach Rd. over Branch of ICWW (934125)

Consultant Service Authorization (CSA)

| | |
|---|----------------------|
| • Basic Services | \$ 193,838.76 |
| • Reimbursable | \$ 72,960.62 |
| • Optional Services | \$ 12,677.06 |
| Total consultant service authorization (CSA) | \$ 279,476.44 |

Estimated Staff Costs

| | |
|------------------------------------|----------------------|
| • Roadway Production | \$ 55,896.00 |
| • Roadway Production: Survey | \$ 13,974.00 |
| • Roadway Production: Right-of-Way | \$ 13,974.00 |
| • Traffic | \$ 27,948.00 |
| Total Staff Costs | \$ 111,792.00 |

Fiscal Impact \$ 391,268.44

Note: Surtax Funding FY 2021 \$ 150,000 & FY 2022 \$350,000
Jupiter Beach Rd. over Branch of ICW W (934125)

C. Departmental Fiscal Review: _____

[Signature]

III. REVIEW COMMENTS

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

[Signature] 12/15/22
OFMB 12/15/22

[Signature] 12/19/22
Contract Dev. and Control

B. Approved as to Form and Legal Sufficiency:

[Signature] 12/20/22
Assistant County Attorney

C. Other Department Review:

Department Director

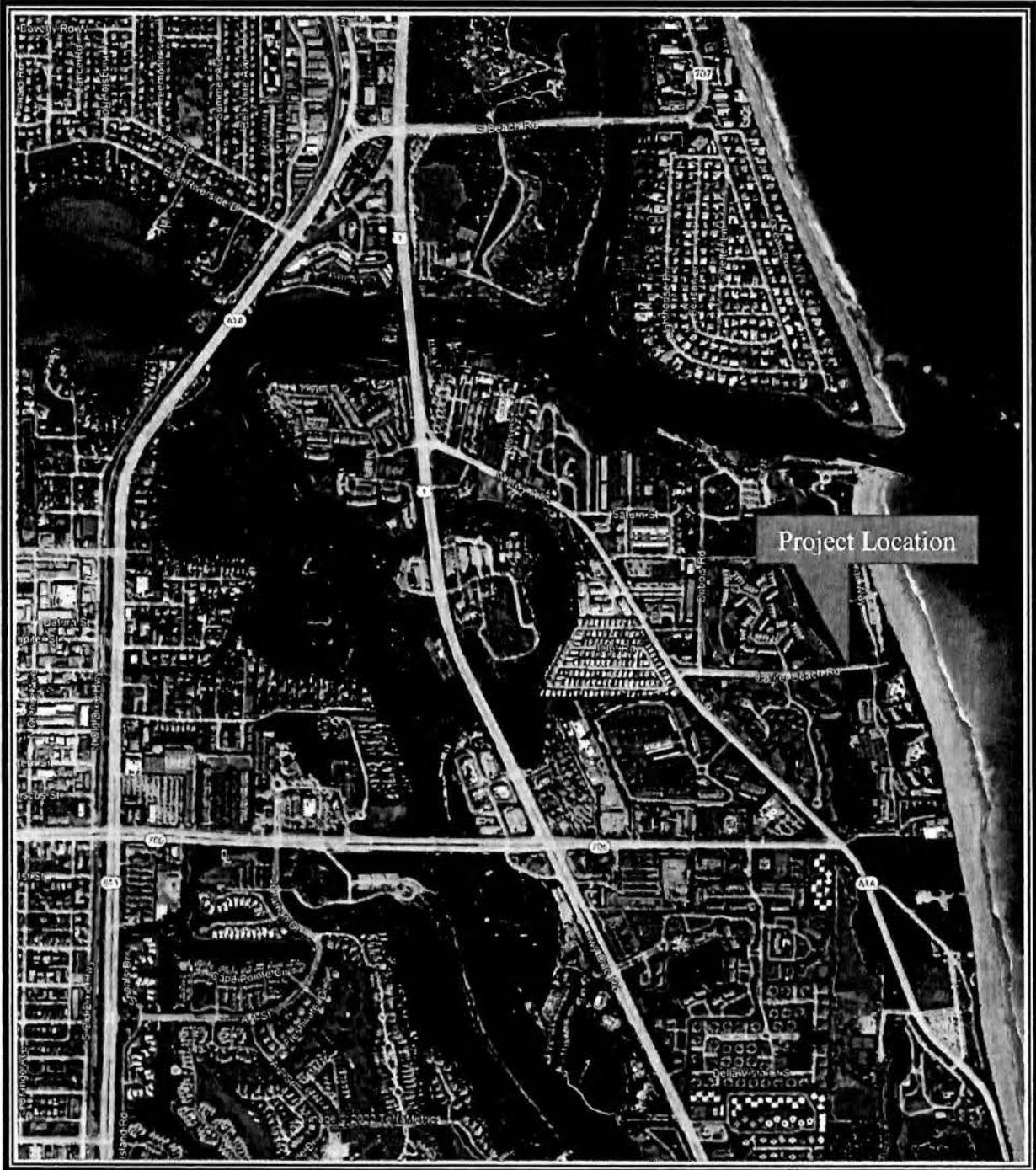
This summary is not to be used as a basis for payment.

PROJECT LOCATION

JUPITER BEACH ROAD OVER BRANCH OF INTRACOASTAL WATERWAY

BRIDGE REPLACEMENT

Palm Beach County Project #2021803



LOCATION MAP

ATTACHMENT 2

CONSULTANT SERVICE AUTHORIZATION
UNDER THE ANNUAL STRUCTURAL
ENGINEERING SERVICES CONTRACT

Project Name: **Jupiter Beach Road over Branch of ICWW (934125)**

Project No: **2021803**

Commission District No.: **1**

SBE Participation for this authorization is **93.31% SBE**

SBE Participation to date for this CSA is **93.31% SBE**

SBE Commitment is **90% SBE**

This authorization is under the EBO Ordinance.

PALM BEACH COUNTY

BOARD OF COUNTY COMMISSIONERS

Account No.: **3950-361-1657-6505-AE10**

A Consultant Service Authorization (CSA) to the Annual Structural Engineering Services Contract dated June 2, 2020, (R2020-0547), as amended on May 3, 2022, (R2022-0390), (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 201, 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 services to Palm Beach County for the Jupiter Beach Road over Branch of ICWW (934125) project. Design bridge replacement and prepare the design plans and construction bid documents in accordance with the attached **EXHIBIT A** dated August 22, 2022.
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 | \$193,838.76 |
| <input checked="" type="checkbox"/> Reimbursable Expenses capped at | \$ 72,960.62 |
| <input checked="" type="checkbox"/> Optional Services capped at | <u>\$ 12,677.06</u> |
| Totaling | \$279,476.44 |

OEBO Schedules 1 & 2 **EXHIBIT C**

Project History **EXHIBIT D**

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

CONSULTANT SERVICE AUTHORIZATION
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, as amended.

CONSULTANT: Alan Gerwig & Associates Inc.

Federal ID: 65-0843137

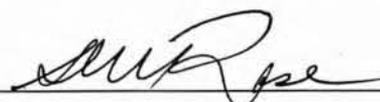
Signed: _____

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

Title: President

Date: 12/8/22

Approved as to Terms and Conditions

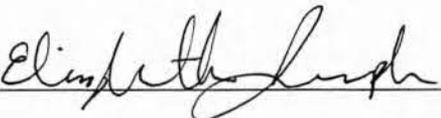
By: * 

Typed Name: Morton L. Rose, P.E.

Title: Division Director

(Corporate Seal)

ATTEST WITNESS:

Signed: 

Typed Name: Elizabeth Joseph

Title: Office Manager

Date: 12/8/22

CONSULTANT SERVICE AUTHORIZATION
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: _____

Title: Greg K. Weiss, Mayor

Date: _____

ATTEST:

Joseph Abruzzo
Clerk of the Circuit Court & Comptroller

By: _____

Deputy Clerk

Approved as to Form and Legal Sufficiency

By: ybh/tel _____

Typed Name: Yelizaveta B. Herman

Title: Assistant County Attorney

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

OK MA
EXHIBIT A PAGE 1 OF 5 8-24-22

Alan Gerwig & Associates, Inc.
Consulting Engineers



August 17, 2021
Rev. October 27, 2021
Rev. November 29, 2021
Rev. February 18, 2022
Rev. March 9, 2022
Rev. August 16, 2022
Rev. August 22, 2022

Mr. Maroun Azzi, P.E.
Roadway Production Division
Palm Beach County Engineering
2300 N. Jog Road
West Palm Beach, FL 33411

RE: Jupiter Beach Road over Branch of ICWW (934125)
Palm Beach County Project No. 2021803

Dear Mr. Azzi:

Basic Scope of Services

AGA will provide design services required to prepare construction documents and specifications for the replacement of the existing two lane, single span bridge and roadway approach improvements on Jupiter Beach Road located approximately 1600 feet east of NA1A in Jupiter. Design survey services, geotechnical engineering services 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 and plan preparation, permitting, utility coordination, and the preparation of final plans and specifications for bidding and construction.

Design Survey

The design survey for this project will be performed by HSQ Group 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 is from the entrance to

Jupiter Dunes, approximately 600 LF west of the existing bridge to the entrance of Dubois Park, approximately 300 LF east 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 Terracon, Inc. acting as a sub-consultant to AGA. The geotechnical investigation will provide the data and recommendations required for the design of the bridge foundations and abutments and the roadway approaches. The scope of the geotechnical investigation will contain the following key items:

- Two 100-ft. deep Standard Penetration Test (SPT) borings for the design of the bridge foundations.
- Two Pavement Cores for estimating the structural number of the existing pavement.

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 – 11' lanes with 5.5' shoulders, and 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.
- Determination of begin and end project with transitions to existing lane conditions at both ends of the project including phasing of the bridge construction to enable one lane of traffic to remain open throughout construction.
- Currently there is very little positive drainage in place along the existing roadway and the bridge has deck scuppers that discharge into the canal. This will not be permissible on the new bridge. A drainage improvement concept will be included as part of the layout.
- Typical section and horizontal layout plan will be submitted for comment and approval prior to commencing the design phase of the project.

Bridge Replacement

The existing single span bridge will be replaced by a single 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 access to the adjacent property to the road right-of-way will not be required and that guardrail will connect to the bridge barrier in accordance with FDOT standard details for barrier and guardrail end treatments.

Roadway Improvements

Roadway construction plans will be prepared based on the approved typical section. The existing roadway section utilizes swale drainage with a short segment of curb and gutter west of the bridge on the north side, approximately 100 LF. The approved typical section will be applied to the new design and will transition from the proposed typical section to existing conditions at either end of the project, transitioning to existing turn lanes as required and collect and convey stormwater runoff to existing outfall locations on the north side of the roadway. The total project length will be approximately 800 LF

The plans will address drainage, curb and gutter, sidewalks, signing and pavement markings. 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.

Calculations will be provided as necessary to demonstrate to the permitting agencies that the proposed design is not adversely affecting the existing drainage conditions.

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:

- Letter Modification to South Florida Water Management District Environmental Resource Permit.
- Army Corp of Engineers Section 404 – dredge and fill permit.

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

Prime Consultant Fee:

| | |
|----------------------------|-------------|
| Typical Section and Layout | \$17,769.24 |
| 35% Plans Submittal | \$35,544.78 |
| 65% Plans Submittal | \$68,831.28 |
| 96% Plans Submittal | \$42,295.68 |
| 100% Plans Submittal | \$5,761.44 |

| | | |
|-----------------------------|--------------------|-----------------------|
| Final Plans Submittal | \$4,149.90 | |
| Permit Application Process | <u>\$19,486.44</u> | |
| Basic Services Total | | \$193,838.76 ✓ |

| | | |
|-------------------------------------|-------------------|----------------------|
| Reimbursable Fees | | |
| HSQ – Design Survey | \$20,718.00 | |
| Terracon – Geotechnical Engineering | \$18,676.50 | |
| EW Consulting – Environmental | \$29,556.12 | |
| Permit Fees* | <u>\$4,010.00</u> | |
| Reimbursable Total | | \$72,960.62 ✓ |

* Permit fees associated with SFWMD, and ACoE

Fees: Optional Services

| | | |
|---|-------------------|----------------------|
| Post Design Services (Prime Consultant) | \$7,466.40 | |
| EW Consulting – Update submerged Resources | \$3,210.66 | |
| HSQ – Temporary Const. Easements \$2,000.00 | <u>\$2,000.00</u> | |
| Optional Services Total | | \$12,677.06 ✓ |

Project Schedule

Construction documents for the bridge and roadway, the design survey, and the geotechnical engineering investigation, will be completed within 20 months of receipt of notice to proceed.

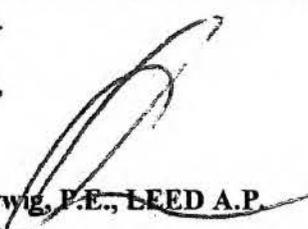
Project Deliverables

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 Geryig, P.E., LEED A.P.
 President

Estimate of Work Effort and Cost

| Name of Project: | | Jupiter Beach Road over Branch of ICWW (934125) | | | | Alan Gerwig & Associates, Inc. | | |
|--|-------------------|---|-----------------|------------------|-----------|--------------------------------|-------------------------|-----------------------|
| PBC Project Number: | | 2021803 | | | | | | |
| Task Description | Total Staff Hours | Senior Engineer | Project Manager | Project Engineer | Designer | Staff Hours By Activity | Salary Cost By Activity | Average Rate Per Task |
| | | \$62.22 ✓ | \$54.96 ✓ | \$47.70 ✓ | \$33.18 ✓ | | | |
| Basic Services | | | | | | | | |
| Typical Section and Layout | | | | | | | | |
| Field Review | 8 | 4 | 4 | | | 8 | \$468.72 | 58.59 |
| Typical Sections & Horizontal Layout Submittal Package | 84 | 20 | 24 | | 40 | 84 | \$3,890.64 | 46.32 |
| Comment Responses and Resubmittal | 34 | 6 | 12 | | 16 | 34 | \$1,563.72 | 45.99 |
| ROADWAY DESIGN | | | | | | | | |
| 35% Roadway Plan Submittal | | | | | | | | |
| Cover sheet, gen. notes, exist. P&P, exist. sections, | 70 | 14 | 28 | | 28 | 70 | \$3,339.00 | 47.7 |
| Coordinate and incorporate geotech and survey | 28 | 4 | 10 | | 14 | 28 | \$1,263.00 | 45.11 |
| 65% Roadway Plan Submittal | | | | | | | | |
| Drainage design and computations | 46 | 12 | 6 | 16 | 12 | 46 | \$2,237.76 | 48.65 |
| Incorporate existing utilities, conflict matrix | 20 | 4 | 4 | 6 | 6 | 20 | \$954.00 | 47.7 |
| Plan preparation: plan & profile, x-sections, drainage struct. | 90 | 10 | 20 | 20 | 40 | 90 | \$4,002.60 | 44.47 |
| Pay Items | 8 | 4 | | 4 | | 8 | \$439.68 | 54.96 |
| Assist with utility coordination, matrix, minutes, attend mtg. | 20 | 8 | 4 | | 8 | 20 | \$983.04 | 49.15 |
| Signing & Pavement Markings | 20 | 4 | 8 | | 8 | 20 | \$954.00 | 47.7 |
| 95% Roadway Plan Submittal | | | | | | | | |
| Final drainag design, computation, and plans | 74 | 8 | 6 | 30 | 30 | 74 | \$3,253.92 | 43.97 |
| Address utility conflicts | 20 | 6 | 4 | 4 | 6 | 20 | \$983.04 | 49.15 |
| Update estimate of quantities and cost estimate | 12 | 2 | 6 | 4 | | 12 | \$645.00 | 53.75 |
| Utility Coordination | 10 | 4 | | 6 | | 10 | \$535.08 | 53.51 |

Estimate of Work Effort and Cost

Name of Project: **Jupiter Beach Road over Branch of ICWW (934125)** Alan Gerwig & Associates, Inc.
 PBC Project Number: **2021803**

| Task Description | Total Staff Hours | Senior Engineer | Project Manager | Project Engineer | Designer | Staff Hours By Activity | Salary Cost By Activity | Average Rate Per Task |
|--|-------------------|-----------------|-----------------|------------------|-----------|-------------------------|-------------------------|-----------------------|
| | | \$62.22 ✓ | \$54.96 ✓ | \$47.70 ↙ | \$33.18 ↙ | | | |
| 100% Roadway Plan Submittal | | | | | | | | |
| Final utility coordination | 14 | 6 | 8 | | | 14 | \$813.00 | 58.07 |
| Final Quantities and Cost Estimate | 6 | 2 | 4 | | | 6 | \$344.28 | 57.38 |
| Roadway Final Plans Submittal | | | | | | | | |
| Final Submittal | 15 | 3 | 4 | | 8 | 15 | \$671.94 | 44.8 |
| Bridge Design | | | | | | | | |
| 35% Bridge Plan Submittal | | | | | | | | |
| Cover sheet and general notes | 5 | 2 | | | 3 | 5 | \$223.98 | 44.8 |
| Plan & Elevation sheet, Standard Indexes | 32 | 16 | 4 | | 12 | 32 | \$1,613.52 | 50.42 |
| Preliminary bent plan and section | 30 | 12 | 4 | | 14 | 30 | \$1,431.00 | 47.7 |
| Foundation layout | 20 | 8 | 4 | | 8 | 20 | \$983.04 | 49.15 |
| Superstructure Plan & Section | 28 | 8 | 4 | | 16 | 28 | \$1,248.48 | 44.59 |
| Preliminary Construction Phasing Plan | 36 | 16 | 4 | | 16 | 36 | \$1,746.24 | 48.51 |
| 65% Bridge Plan Submittal | | | | | | | | |
| General notes, standard indexes | 8 | 6 | | | 2 | 8 | \$439.68 | 54.96 |
| Plan & Elevation | 20 | 8 | 4 | | 8 | 20 | \$983.04 | 49.15 |
| Foundation Plan | 24 | 12 | 4 | | 8 | 24 | \$1,231.92 | 51.33 |
| End bent design, plan, elevation, sections | 84 | 40 | 14 | | 30 | 84 | \$4,253.64 | 50.64 |
| Finished grades | 8 | 4 | | | 4 | 8 | \$381.60 | 47.7 |
| Superstructure plan, sections & phasing | 24 | 8 | 4 | | 12 | 24 | \$1,115.76 | 46.49 |
| Deck slab design, plans and details | 78 | 34 | 8 | | 36 | 78 | \$3,749.64 | 48.07 |
| Pay Items & Cost Estimate | 24 | 4 | 14 | | 6 | 24 | \$1,217.40 | 50.73 |
| 96% Bridge Plan Submittal | | | | | | | | |
| Miscellaneous common details | 14 | 8 | | | 6 | 14 | \$696.84 | 49.77 |

Estimate of Work Effort and Cost

| Name of Project: | | Jupiter Beach Road over Branch of ICWW (934125) | | | | Alan Gerwig & Associates, Inc. | | |
|--|-------------------|---|----------------------|---------------------|----------------------|--------------------------------|-------------------------|-----------------------|
| PBC Project Number: | | 2021803 | | | | | | |
| Task Description | Total Staff Hours | Senior Engineer | Project Manager | Project Engineer | Designer | Staff Hours By Activity | Salary Cost By Activity | Average Rate Per Task |
| | | \$62.22 ✓ | \$54.96 ✓ | \$47.70 ✓ | \$33.18 ✓ | | | |
| Finalize Plan & Elevation | 8 | 4 | | | 4 | 8 | \$381.60 | 47.7 |
| Finalize Foundation Plan | 12 | 4 | 4 | | 4 | 12 | \$601.44 | 50.12 |
| Finalize end bent design, plans and details | 22 | 8 | 4 | | 10 | 22 | \$1,049.40 | 47.7 |
| Finalize finished grades | 4 | 2 | | | 2 | 4 | \$190.80 | 47.7 |
| Finalize superstructure plan, section and details | 10 | 4 | 2 | | 4 | 10 | \$491.52 | 49.15 |
| Final prestressed deck slab design, plans, details & phasing | 32 | 14 | 4 | | 14 | 32 | \$1,555.44 | 48.61 |
| Bill of reinforcement | 24 | 14 | 6 | | 4 | 24 | \$1,333.56 | 55.57 |
| Estimates of quantities and cost estimate | 14 | 4 | 2 | 8 | | 14 | \$740.40 | 52.89 |
| Bridge load rating | 28 | 14 | 14 | | | 28 | \$1,640.52 | 58.59 |
| 100% Bridge Plan Submittal | | | | | | | | |
| Finalize all drawings | 16 | 8 | | | 8 | 16 | \$763.20 | 47.7 |
| Bridge Final Plans Submittal | | | | | | | | |
| Final Plans Submittal | 14 | 4 | 6 | | 4 | 14 | \$711.36 | 50.81 |
| Permitting | | | | | | | | |
| SFWMD Preapplication Meeting | 6 | 2 | 4 | | | 6 | \$344.28 | 57.38 |
| SFWMD ERP | 50 | 4 | 10 | 20 | 16 | 50 | \$2,283.36 | 45.67 |
| SFWMD Dewatering Permit | 30 | 4 | 2 | 16 | 8 | 30 | \$1,387.44 | 46.25 |
| ACoE Section 404 Permit | 52 | 8 | 8 | 24 | 12 | 52 | \$2,480.40 | 47.7 |
| | 0 | | | | | | | |
| Total Staff Hours (Basic Services) | 1336.0 | 405.0 | 286.0 | 158.0 | 487.0 | 1336.0 | | |
| Total Staff Cost (Basic Services) | | \$25,199.10 ✓ | \$15,718.56 ✓ | \$7,536.60 ✓ | \$16,158.66 ✓ | | \$64,612.92 ✓ | 48.36 |

Estimate of Work Effort and Cost

| | | |
|---------------------|---|--------------------------------|
| Name of Project: | Jupiter Beach Road over Branch of ICWW (934125) | Alan Gerwig & Associates, Inc. |
| PBC Project Number: | 2021803 | |

| Task Description | Total Staff Hours | | | | | Staff Hours By Activity | Salary Cost By Activity | Average Rate Per Task |
|--|-------------------|-------------------|-----------------|------------------|---------------|-------------------------|-------------------------|-----------------------|
| | | Senior Engineer | Project Manager | Project Engineer | Designer | | | |
| | | \$62.22 ✓ | \$54.96 ✓ | \$47.70 ✓ | \$33.18 ✓ | | | |
| OPTIONAL SERVICES | | | | | | | | |
| Post design services | 40 | 40 | | | | 40 | \$2,488.80 | 62.22 |
| | | | | | | | | |
| Total Staff Hours (Optional Services) | 40.0 | 40.0 | 0.0 | 0.0 | 0.0 | 40.0 | | |
| Total Staff Cost (Optional Services) | | \$2,488.80 | \$0.00 | \$0.00 | \$0.00 | | \$2,488.80 | |

| | |
|--|-----------------------|
| Basic Services: | |
| Salary Related Costs: | \$64,612.92 ✓ |
| Contract Multiplier: | 3.00 ✓ |
| Subtotal Basic Services (Prime Firm): | \$193,838.76 ✓ |
| Basic Services Total: | \$193,838.76 ✓ |

| | |
|--|----------------------|
| Reimbursables: | |
| HSQ Group, LLC - Design Survey | \$20,718.00 ✓ |
| Terracon Consultants, Inc. - Geotechnical | \$18,676.50 ✓ |
| EW Consulting, Inc.-Loaded Rates- Environmental | \$29,556.12 ✓ |
| Permit Fees (SFWMD & US Army Corps of Engineers) | \$4,010.00 ✓ |
| Reimbursables Total: | \$72,960.62 ✓ |

| | |
|--|----------------------|
| Optional Services: | |
| Prime Consultant (Unloaded) | \$2,488.80 ✓ |
| Contract Multiplier: | 3.00 ✓ |
| Prime Consultant (Loaded) | \$7,466.40 ✓ |
| EW Consulting, Inc. - Loaded Rates - Update submerged Resources Assessment | \$3,210.66 ✓ |
| HSQ Group, LLC - Survey Sketch & Legal | \$2,000.00 ✓ |
| Optional Services Total: | \$12,677.06 ✓ |

| | |
|------------------------------------|---------------------|
| Grand Total Estimated Fees: | \$279,476.44 |
|------------------------------------|---------------------|

OK
8-24-22

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 \leq 3 MGM\$ 350
- Max Month Allocation $>$ 3 MGM \leq 15 MGM \$ 1,000

Individual Irrigation $<$ 20 years

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

Individual Irrigation \geq 20 years

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

Individual Public Water Supply $<$ 20 years

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

Individual Public Water Supply \geq 20 years

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

Individual Mining/Dewatering

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

Individual Industrial $<$ 20 years

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

Individual Industrial \geq 20 years

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

Individual Diversion/Impoundment $<$ 20 years

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

Individual Diversion/Impoundment \geq 20 years

- Max Month Allocation $>$ 15 MGM \leq 30 MGM \$ 2,000



US Army Corps of Engineers Jacksonville District Website

- Adjoining property owner means anyone whose property adjoins the waterbody.
- The project location. This should be clearly marked on a road map and a description of the directions should be included. In addition to the map and directions, you should submit the section, township and range and the latitude and longitude of the site.
- Has the application been signed?
- Be sure to include a full set of drawings on 8.5 inch by 11 inch format. These should include plan view, section view, elevation view, profile and grade drawings. Please use match lines where necessary.

After the application is received by the Corps, it will be assigned an identification number and reviewed for completeness. A request for additional information may be sent to notify you of any additional information which may be necessary for the Corps to review your proposed project. Then within 15 days of receiving all the required information, a public notice will be issued with a 15- to 30-day comment period. The proposal is then reviewed by the Corps, local, state and federal agencies, special interest groups and the general public.

After the comment period, the Corps reviews all of the comments received and consults with other agencies where appropriate. The Corps may ask for additional information at this time, and a public hearing may be conducted if one has been specifically requested and a decision has been made that there is a need.

The project manager evaluates the impacts of the project and all comments received, negotiates necessary modifications of the project if required, and drafts appropriate documentation to support a recommended permit decision. The permit decision document includes a discussion of the environmental impacts of the project, the findings of the public interest review process, and any special evaluation required by the type of activity such as compliance determinations with the Section 404(b)(1) guidelines or the ocean dumping criteria.

When all considerations are satisfied, the District Engineer decides to either issue or deny the permit application. If a denial is warranted, you will receive a written explanation of the reason for denial.

Fees are required for any issued individual permit and consist of \$10.00 for individual, non-commercial projects, and \$100.00 for commercial projects.

The Corps makes every effort to process Individual Permit applications within 120 days of the date a complete application is submitted. In some cases, such as controversial projects, large projects, or projects with endangered species or historic properties concerns, the processing time may be greater than 120 days.

Permits can be issued with special conditions. When a Standard Permit or Letter of Permission (LOP) is issued, a Self-Certification Form is included. When the authorized activity and or mitigation is completed, the permittee is required to fill out the form and mail it to the Enforcement Branch. This is a special condition attached to all IPs and LOPs and assists



HSQ GROUP, LLC
Engineers • Planners • Surveyors
 1001 Yamato Road, Suite 105
 Boca Raton, Florida 33431
 (561) 392-0221 Phone • (561) 392-6458 Fax

Jupiter Beach Road over Branch of ICWW (934125)

Land Survey Scope of Services

August 12, 2021
 Revised on 2/10/2022
 Revised on 3/9/2022
 Revised on 8/11/2022

PROJECT LIMITS

Jupiter Beach Road from east of Dubois Park main entrance to west of the pavement returns of Fairway Drive Bridge. (1,000 linear feet, unplatted).

SCOPE OF SERVICES

The Boundary and Topographic Survey will be done in accordance with the current State of Florida Standards of Practice, and the County Requirements included below:

1. Review property appraiser data, r/w, boundary and compile the data for a base map.
2. Review Palm Beach County Title Report Documents to establish right-of-way. The right-of-way is not platted, nor found in deeds associated with the adjacent properties. **Retracement would be very difficult, for the condominium, golf course and park boundaries are old and typically poorly monumented. The right-of-way deeds, if any, would be difficult to retrace as well for these properties were developed in the 1970's and 1980's.** Prepare a drawing showing the linework, width, and recording information of the boundary, right-of-way and easements.
3. Collect horizontal global positioning control monumentation and set control points tied to Florida East Zone State Plane Coordinates (NAD 83, 1990 adjustment).
4. Collect published vertical benchmarks, run a closed level loop, and set benchmarks outside the limits of construction (NAVD 1988 datum).
5. Locate subdivision corners, (if any) and lot corners (if any) to establish the relative position. Note: This is an old, long established neighborhood consisting of condominiums, a park and a golf course, which are historically without monumentation, readily retracable boundaries and right-of-way maps.
6. Locate above ground features adjoining the roadway (R/W width unknown) extending to the low grade break north and south. Including pavement, utilities, walks, driveway, other amenities, and fences with elevations.
7. Locate the bridge abutment and the supporting piling in sufficient detail for a structural engineer to retrofit the replacement bridge.
8. Obtain cross sections of the canal extending 100 feet beyond the north and south bridge face.
9. **Locate trees with size and type within the right-of-way and the outward limits of the Mangroves within the canal area.** Australian Pines and other exotic and invasive species are not included.
10. Obtain rim elevation, inverts and bottom of drainage structures within the right of way with pipe sizes and materials. Locate the drainage outfalls (if any).
11. Set reference and baseline points.
12. Prepare a Boundary and Topographic Survey.
13. Create deliverable AutoCAD files.

SURVEY DELIVERABLES

- 1- Boundary and Topographic Survey (11"x17" sheet, 1"=40' scale).
- 2- The SURVRD01 file in AutoCAD cad format.
- 3- Project Network Control (PNC) sheet
- 4- Reference Point Sheet

Jupiter Beach Road over Branch of ICWW (934125)



| Description | Two-Man Field Crew | | Senior Surveyor and Mapper | | Surveyor and Mapper | | CADD Technician | | Total STAFF HRS ACTIVITY | Total COST BY ACTIVITY |
|-------------------------|--------------------|---------|----------------------------|-----------|---------------------|-----------|-----------------|-----------|--------------------------|------------------------|
| | STAFF HOURS | HR RATE | STAFF HOURS | HR RATE | STAFF HOURS | HR RATE | STAFF HOURS | HR RATE | | |
| Land Surveying Services | 60.0 ✓ | \$54.00 | 2.0 | \$60.00 ✓ | 30.0 | \$50.00 ✓ | 66.0 | \$31.00 ✓ | 158.0 | \$6,906.00 |
| Total: | \$3,240.00 | | \$120.00 | | \$1,500.00 | | \$2,046.00 | | \$6,906.00 | |

HSQ FEE CALCULATIONS

| Type of services | Cost by activity | Multiplier | Total |
|----------------------------------|------------------------------------|------------|----------------------|
| Land Surveying Services | \$6,906.00 | 3.00 | \$20,718.00 ✓ |
| Land Surveying Optional Services | 4 Sketch and Legal @ \$500.00 each | | \$2,000.00 |
| TOTAL | | | \$22,718.00 ✓ |

Jupiter Beach Road over Branch of ICWW (934125)

Land Surveying Services



HSQ GROUP, LLC

Engineers • Planners • Surveyors

| Item No. | Work Task | Estimated Work Hours | | | | Total Hours | Notes |
|--------------------|--|----------------------|----------------------------|---------------------|-----------------|-------------|-------|
| | | Two-Man Field Crew | Senior Surveyor and Mapper | Surveyor and Mapper | CADD Technician | | |
| 1 | Review property appraiser data, and underlying plat, build r/w, boundary and easements for base map. | | 1 | 8 | 8 | 17 | |
| 2 | Review Palm Beach County Title Report Documents to establish right-of-way | | | 8 | 4 | 12 | |
| 3 | Collect GPS platted control points & set control points. Calculate control ties | 4 | | 3 | 1 | 8 | |
| 4 | Collect benchmarks, run level loop, set project benchmarks. | 4 | | 1 | 1 | 6 | |
| 5 | Locate subdivision, section, and existing corners. | 8 | | 4 | 8 | 20 | |
| 6 | Locate above ground features with elevations | 24 | | | 16 | 40 | |
| 7 | obtain bridge features in detail with abutments and support piling including low member elevation | 4 | | 1 | 4 | 9 | |
| 8 | Cross section canal | 8 | | 1 | 4 | 13 | |
| 9 | Locate trees and mangroves | 4 | | | 2 | 6 | |
| 10 | Detail existing drainage. | 2 | | | 2 | 4 | |
| 11 | Set ref points prepare cdl & ref pt surveys | 2 | | 2 | 8 | 12 | |
| 12 | Prepare Boundary and Topographic survey. | | 1 | 2 | 6 | 9 | |
| 13 | Create cad deliverable files. | | | | 2 | 2 | |
| TOTAL HOURS | | 60 | 2 | 30 | 66 | 158 | |

August 19, 2022



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

Attn: Mr. Alan Gerwig, P.E.
P: (561) 792-9000
E: agerwig@aga-engineering.com

Re: Revised Proposal for Geotechnical Engineering Services
Jupiter Blvd Bridge Replacement
Jupiter Blvd from Fairway Drive to Ocean Trail Way
Jupiter, Palm Beach County, Florida
Terracon Proposal No. PHD215056

Dear Mr. Gerwig:

We appreciate the opportunity to submit this proposal to Alan Gerwig & Associates, Inc. to provide Geotechnical Engineering services for the above referenced project. The following are exhibits to the attached Agreement for Services.

| | |
|-----------|--|
| Exhibit A | Project Understanding |
| Exhibit B | Scope of Services |
| Exhibit C | Compensation and Project Schedule |
| Exhibit D | Site Location and Nearby Geotechnical Data |
| Exhibit E | Anticipated Exploration Plan |

Our base fee to perform the Scope of Services described in this proposal is \$18,676.50. See Exhibit C for more details of our fees and consideration of additional services.

Your authorization for Terracon to proceed in accordance with this proposal can be issued by signing and returning a copy of the attached Agreement for Services to our office.

Sincerely,
Terracon Consultants, Inc.

Jaime Velez, P.E.
Senior Geotechnical Engineer

FOR
Douglas S. Dunkelberger, P.E.
Principal

Proposal for Geotechnical Engineering Services
 Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
 12798 W. Forest Hill Blvd, Suite 201 ■ Terracon Proposal No. PHD215056



EXHIBIT A - PROJECT UNDERSTANDING

Our Scope of Services is based on our understanding of the project and a site visit.

Site Location and Anticipated Conditions

| Item | Description |
|---------------------------------------|---|
| Parcel Information | The project is located at Jupiter Blvd from Fairway Drive to Ocean Trail Way in Jupiter, Palm Beach County, Florida. Fairway Drive is located about 600 ft west of the bridge and Ocean Trail Way is about 300 ft east of it. The bridge location is: Latitude: 26°56'18.6"N Longitude: 80°4'20.1"W. (See Exhibit D). |
| Existing Improvements | The site is an existing two lane bridge that is about 30 ft long. |
| Current Ground Cover | Roadway east and west of bridge is asphalt paved. |
| Existing Topography | From review of Google Earth Pro the ground surface elevation of the roadway and bridge ranges from about +5 to +7 feet (datum not known). |
| Expected Subsurface Conditions | Our experience in the project vicinity indicates that the subsurface conditions at the site may consist of loose to medium dense shelly sands to about 35 feet below grade. |

Planned Construction

| Item | Description |
|-----------------------------|---|
| Information Provided | The following information was provided to us by Alan Gerwig, P.E. |
| Project Description | The current plan is to replace the existing bridge with a similar new, single-span, two-lane bridge about 30 ft in length. The bridge is to be supported on concrete driven piles with anticipated nominal bearing resistance load of 150 tons. Pavement rehabilitation or reconstruction is being considered for the pavement west and east of the bridge. For this reason an estimate of the structural number of the existing pavement is needed. |

Proposal for Geotechnical Engineering Services
 Jupiter Blvd Bridge Replacement • Jupiter, Palm Beach County, Florida
 12798 W. Forest Hill Blvd, Suite 201 • Terracon Proposal No. PHD215056



EXHIBIT B - SCOPE OF SERVICES

Our proposed Scope of Services consists of field exploration, laboratory testing, and engineering/project delivery. These services are described in the following sections.

Field Exploration

The field exploration program consists of the following:

| Number of Borings | Planned Boring Depth (feet) | Planned Location |
|-------------------|-----------------------------|---|
| 2 | 100 | One on west side of bridge and one on the east side (see Exhibit E) |

¹ Below ground surface.

At the two boring locations above, and also at two other locations, cores of the existing pavement section will be obtained (see locations on Exhibit E). At each core location, the holes will be extended to a depth of 3.0 feet below grade using a hand turned bucket auger. A dual mass cone penetrometer will be used to estimate the Limerock Bearing Ratio of the existing base and stabilized subgrade materials.

Boring Layout and Elevations: We will use handheld GPS equipment to locate borings with an estimated horizontal accuracy of ± 10 feet. Field measurements from existing site features may be utilized.

The travel lanes will be closed, one at a time, and a maintenance of traffic plan implemented to allow the work to be completed. We anticipate the duration of each lane closure to be three days, one for each SPT boring and another for the pavement coring.

Subsurface Exploration Procedures: We will advance soil borings with a truck-mounted drill rig using mud rotary drilling. Five samples will be obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. Soil sampling is performed using split-barrel sampling procedures. The split-barrel samplers are driven in accordance with the standard penetration test (SPT). The samples will be placed in appropriate containers, taken to our soil laboratory for testing, and visually classified by a Geotechnical Engineer. In addition, we will observe and record groundwater levels during drilling and sampling.

Our exploration team will prepare field boring logs as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials encountered during drilling, and our interpretation of subsurface conditions between samples. Final boring logs, prepared from field logs, represent the Geotechnical Engineer's interpretation, and include modifications based on observations and laboratory tests.

Proposal for Geotechnical Engineering Services

Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
12798 W. Forest Hill Blvd, Suite 201 ■ Terracon Proposal No. PHD215056



Our boreholes will be backfilled with grout upon completion.

A sample of the canal water will be obtained for subsequent corrosion series testing.

Property Disturbance: Our services do not include repair of the site beyond backfilling our boreholes. Excess cuttings and drill fluids will be dispersed in the general vicinity of the borehole.

Safety

Terracon is not aware of environmental concerns at this project site that would create health or safety hazards associated with our exploration program; thus, our Scope considers standard OSHA Level D Personal Protection Equipment (PPE) appropriate. Our Scope of Services does not include environmental site assessment services, but identification of unusual or unnatural materials encountered while drilling will be noted on our logs and discussed in our report.

Consultant will be responsible for supervision and site safety measures for its own employees, but shall not be responsible for the supervision or health and safety precautions for any third parties, including Client's contractors, subcontractors, or other parties present at the site. In addition, Consultant retains the right to stop work without penalty at any time if the Consultant believes it is in the best interests of Consultant's employees or subcontractors to do so in order to reduce the risk of exposure to the coronavirus. Client agrees it will respond quickly to all requests for information made by Consultant related to Consultant's pre-task planning and risk assessment processes. Client acknowledges its responsibility for notifying Consultant of any circumstances that present a risk of exposure to the coronavirus or individuals who have tested positive for COVID-19 or are self-quarantining due to exhibiting symptoms associated with the coronavirus.

Exploration efforts require borings into the subsurface, therefore Terracon will comply with local regulations to request a utility location service through SSOCOF. We will consult with the owner/client regarding potential utilities, or other unmarked underground hazards. Based upon the results of this consultation, we will consider the need for alternative subsurface exploration methods, as the safety of our field crew is a priority.

Private utilities should be marked by the owner/client prior to commencement of field exploration. Terracon will not be responsible for damage to private utilities not disclosed to us. If the owner/client is unable to accurately locate private utilities, Terracon can assist the owner/client by coordinating or subcontracting with a private utility locating service. The detection of underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected. The use of a private utility locate service would not relieve the owner of their responsibilities in identifying private underground utilities.

Proposal for Geotechnical Engineering Services

Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
 12798 W. Forest Hill Blvd, Suite 201 ■ Terracon Proposal No. PHD215056



Site Access: Terracon must be granted access to the site by the property owner. By acceptance of this proposal, without information to the contrary, we consider this as authorization to access the property for conducting field exploration in accordance with the Scope of Services.

Laboratory Testing

The project engineer will review field data and assign laboratory tests to understand the engineering properties of various soil strata. The anticipated laboratory testing will include the following:

- Water content (2 tests)
- Full Grain Size Distribution (2 tests)
- Corrosion Series Testing (1 test on a sample of the canal water)

Based on the material's texture and plasticity, we will describe and classify soil samples in accordance with the Unified Soil Classification System (USCS).

Engineering and Project Delivery

Results of our field and laboratory programs will be evaluated by a professional engineer. The engineer will develop a geotechnical site characterization, perform engineering calculations, and develop geotechnical recommendations for the project.

Your project will be delivered using our **GeoReport®** system. Upon initiation, we provide you and your design team the necessary link and password to access the website (if not previously registered). Each project includes a calendar to track the schedule, an interactive site map, a listing of team members, access to the project documents as they are uploaded to the site, and a collaboration portal. The typical delivery process includes the following:

- Project Planning – Proposal information, schedule and anticipated exploration plan will be posted for review and verification
- Site Characterization – Findings of the site exploration
- Geotechnical Engineering – Recommendations and geotechnical engineering report

When utilized, our collaboration portal documents communication, eliminating the need for long email threads. This collaborative effort allows prompt evaluation and discussion of options related to the design and associated benefits and risks of each option. With the ability to inform all parties as the work progresses, decisions and consensus can be reached faster. In some cases, only minimal uploads and collaboration will be required, because options for design and construction are limited or unnecessary. This is typically the case for uncomplicated projects with no anomalies found at the site.

Proposal for Geotechnical Engineering Services

Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
 12798 W. Forest Hill Blvd, Suite 201 ■ Terracon Proposal No. PHD215056



When services are complete, we upload a signed and sealed printable version of our completed geotechnical engineering report, which documents our services. Previous submittals, collaboration and the report are maintained in our system. This allows future reference and integration into subsequent aspects of our services as the project goes through final design and construction.

- Subsurface exploration procedures
- Site and Boring location plans
- Soil boring logs with field and laboratory data, soil stratification based on visual soil classification and laboratory test results
- Groundwater levels observed during drilling
- The results of the pavement cores including the approximate (see note below) structural numbers for the existing pavement at each pavement core location
- Description of subsurface conditions
- Axial capacities for precast concrete piling for support of the bridge
- Recommendations for installation of the piling.
- Lateral earth pressure parameters for abutment wall design:
 - Moist and saturated unit weights
 - Angle of internal friction
 - Undrained cohesion
 - Active and passive pressure coefficients
 - Soil Modulus for p-y method of pile lateral load analysis

The existing structural numbers will be estimated from measuring the thicknesses of the asphalt cores and underlying base course and using Table 7.1 of the FDOT's Flexible Pavement Design Manual, which provides reduced layer coefficients for the asphalt. However, the reduced layer coefficients are a function of the type of asphalt and the pavement condition rating. Unfortunately it is not possible to determine for sure the type of asphalt concrete used (e.g. Type S, SP, I, II, III, etc.) from visual examination of the asphalt core and we may need to simply assume the asphalt is Type S. Also, the pavement condition classification of Good, Fair or Poor normally requires that a detailed Pavement Condition Survey be completed, which is not included in this scope of work. Instead we will approximate the pavement condition (Good, Fair or Poor) at each core location by visually approximating (rough estimate) the degree of cracking within the vicinity of the pavement core while using some of the guidance provided in the FDOT's 2017 Flexible Condition Survey Handbook. Due to these considerations, the structural numbers to be provided should be considered approximate, not exact.

*OK 1/18
B-24*

Proposal for Geotechnical Engineering Services
 Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
 12798 W. Forest Hill Blvd, Suite 201 ■ Terracon Proposal No. PHD215056

EXHIBIT C - COMPENSATION AND PROJECT SCHEDULE

Compensation

Based upon our understanding of the site, the project as summarized in Exhibit A, and our planned scope of services outlined in Exhibit B, we propose to do the work for a lump sum fee of **\$18,676.50** as itemized below.

| | | |
|--|-----------|------------------|
| A. Stake Boring and Utility Clearance: | | |
| Senior Engineering Technician: 7.5 hours @ \$84 per hour | \$ | 630.00 |
| B. Field Exploration Work: | | |
| Drill Rig Mobilization: 1 @ \$350.00/each..... | \$ | 350.00 |
| Maintenance of Traffic (subcontractor): 2.5 days @ \$1,200/day..... | \$ | 3,000.00 |
| SPT Borings (2 to 100 ft deep): | | |
| Drilling - 0 to 50 ft interval: 100 ft @ \$13.00/ft..... | \$ | 1,300.00 |
| Drilling - 51 to 100 ft interval: 100 ft @ \$15.00/ft..... | \$ | 1,500.00 |
| Casing - 0 to 50 ft interval: 100 ft @ \$6.00/ft..... | \$ | 600.00 |
| Casing - 51 to 100 ft interval: 100 ft @ \$8.00/ft..... | \$ | 800.00 |
| Grouting - 0 to 50 ft interval: 100 ft @ \$4.00/ft..... | \$ | 400.00 |
| Grouting - 51 to 100 ft interval: 100 ft @ \$5.00/ft..... | \$ | 500.00 |
| Drilling Oversight: | | |
| Senior Engineering Technician: 16 hours @ \$84 per hour... | \$ | 1,344.00 |
| Pavement Coring: | | |
| Coring Machine plus Generator Rental: 1 @ \$200.00/trip.... | \$ | 200.00 |
| Asphalt Cores (including SPTs): 4 @ \$50.00/each | \$ | 200.00 |
| Hand Augers: 4 at 3 ft deep @ \$12.00/ft | \$ | 144.00 |
| Hole Patching (Senior Eng. Technician): 0.75 hr @ \$84/hr.. | \$ | 63.00 |
| Hole Patching (Engineering Technician): 0.75 hr @ \$58/hr.. | \$ | 43.50 |
| Senior Geotechnical Engineer's Site Visit: 4 hours @ \$157.00/hour | \$ | 628.00 |
| C. Laboratory Soil Classification and Testing: | | |
| Senior Geotechnical Engineer: 2 hours @ \$157 per hour | \$ | 314.00 |
| D.O.T. Corrosivity Test (1 water sample): 1 @ \$150 per test | \$ | 150.00 |
| Grain Size Determination (Full Grain Size): 2 @ \$75 per test | \$ | 150.00 |
| Natural Sample Moisture Content: 2 @ \$15 per test | \$ | 30.00 |
| D. Geotechnical Engineering: | | |
| Principal Engineer: 4 hours @ \$198.50 per hour..... | \$ | 794.00 |
| Senior Geotechnical Engineer: 28 hours @ \$157 per hour | \$ | 4,396.00 |
| Engineer, P.E.: 10 hours @ \$114 per hour | \$ | 1,140.00 |
| Total..... | \$ | 18,676.50 |

Proposal for Geotechnical Engineering Services

Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
 12798 W. Forest Hill Blvd, Suite 201 ■ Terracon Proposal No. PHD215056



The rates shown above are consistent with those agreed to by Terracon for the current Structural Engineering Annual Services Contract between Alan Gerwig and Associates, Inc. and Palm Beach County. Should additional work be needed beyond the scope described herein, that work will be covered by supplemental agreement.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this proposal. If conditions are encountered that require scope of services revisions and/or result in higher fees, we will contact you for approval, prior to initiating services. A supplemental proposal stating the modified scope of services as well as its effect on our fee will be prepared. We will not proceed without your written authorization.

Project Schedule

We developed a schedule to complete the Scope of Services based upon our existing availability and understanding of your project schedule. However, this does not account for delays in field exploration beyond our control, such as weather conditions, permit delays, or lack of permission to access the boring locations. In the event the schedule provided is inconsistent with your needs, please contact us so we may consider alternatives.

| GeoReport® Delivery | Posting Date from Receipt of Signed Agreement ^{1,2} |
|----------------------------|---|
| Project Planning | 1 week |
| Site Characterization | 4 weeks |
| Geotechnical Engineering | 6 weeks |

1. Upon receipt of your notice to proceed we will activate the schedule component of our **GeoReport®** website with specific, anticipated calendar days for the three delivery points noted above as well as other pertinent events such as field exploration crews on-site, etc.
2. We will maintain a current calendar of activities within our **GeoReport®** website. In the event of a need to modify the schedule, the schedule will be updated to maintain a current awareness of our plans for delivery.

EXHIBIT D – SITE LOCATION AND NEARBY HISTORICAL DATA
Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
August 19, 2022 ■ Terracon Proposal No. PHD215056

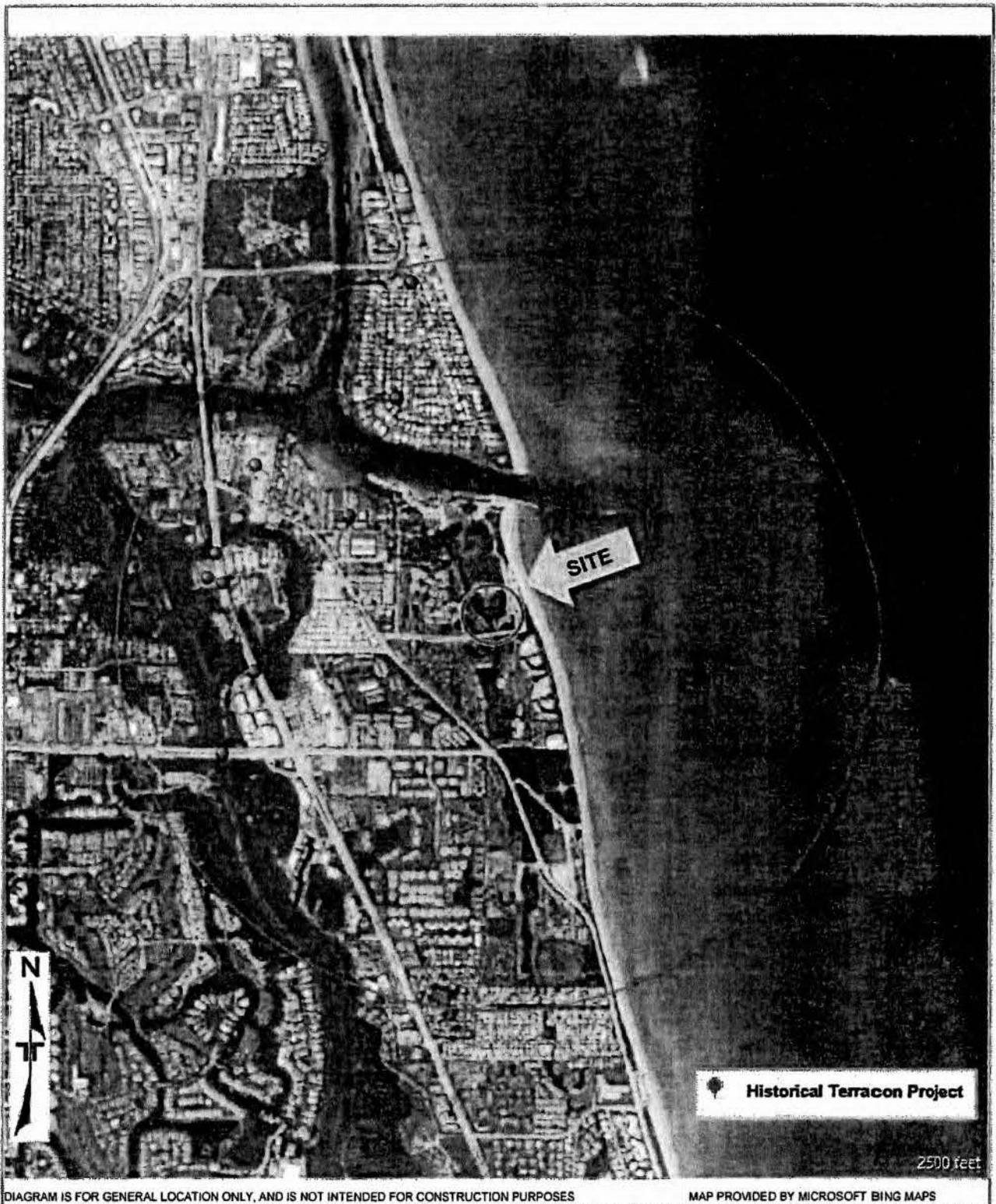
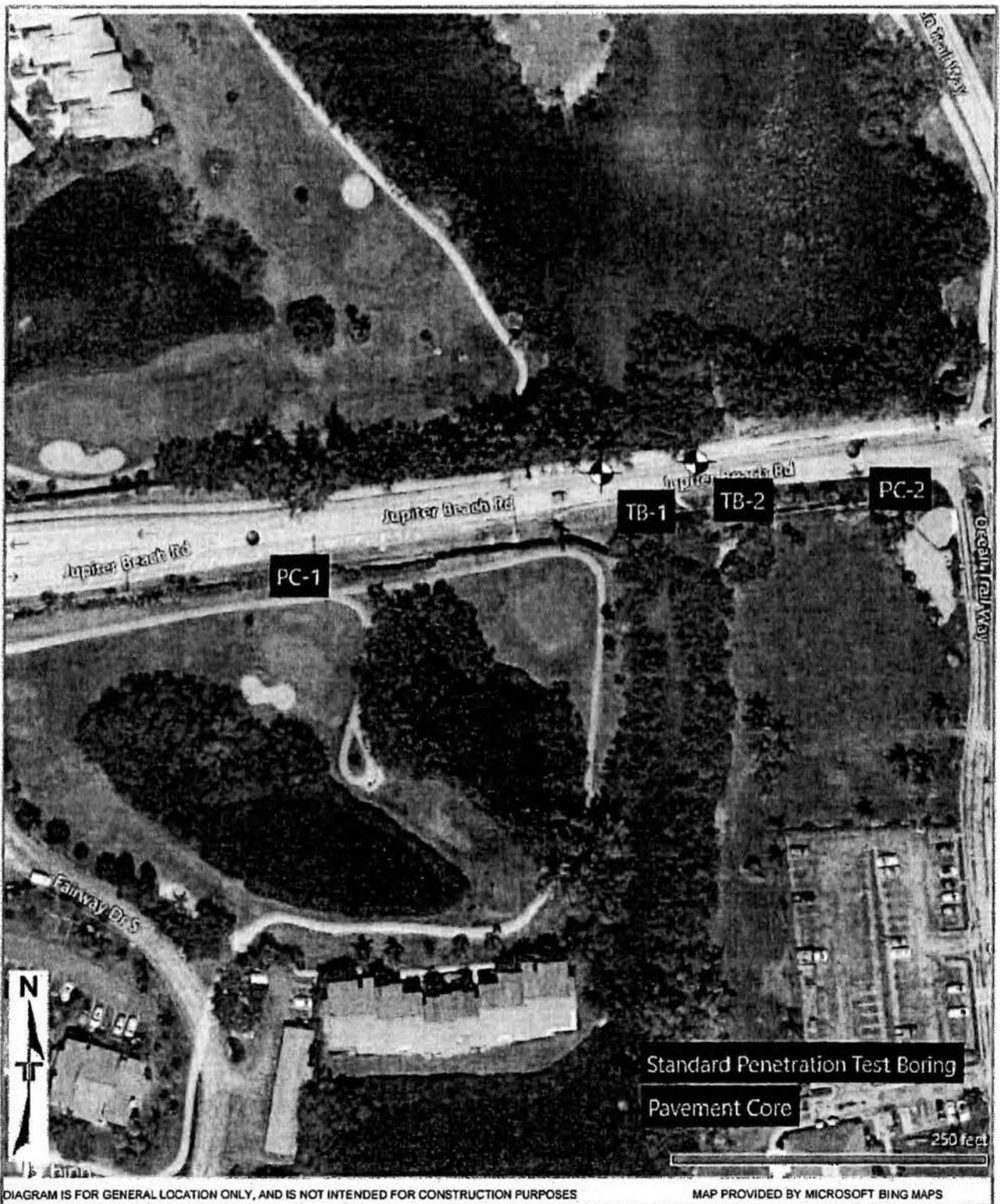


EXHIBIT E – ANTICIPATED EXPLORATION PLAN
Jupiter Blvd Bridge Replacement ■ Jupiter, Palm Beach County, Florida
August 19, 2022 ■ Terracon Proposal No. PHD215056



EW CONSULTANTS, INC.
NATURAL RESOURCE MANAGEMENT, WETLAND, AND ENVIRONMENTAL PERMITTING SERVICES



August 16, 2022

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

VIA EMAIL: agerwig@aga-engineering.com

RE: Jupiter Beach Road over Branch of ICWW – Project 2021803
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 conversation, we understand you are in need of environmental assessment and consulting assistance for proposed bridge replacement in the subject area. Based on this understanding, we have prepared the following scope of services, schedule and fees for your review.

SCOPE OF SERVICES

Task 1 - Conduct Submerged Resource Assessment and Prepare Report.

We will assemble aerial photographs, resource maps and other relevant information covering the bridge area and adjacent areas. We will conduct a detailed resource survey including in-water assessment of the proposed work area and surrounding area. We will identify natural resources including seagrasses and other aquatic resources. We will use this information to prepare a survey report that will include narrative text, maps and graphics to document the results of the assessment.

It is important to note that National Marine Fisheries Service guidance requires valid seagrass surveys to be conducted between June 1st and September 30th. Surveys conducted outside of this timeframe may be used for planning purposes, but may not be accepted for permitting purposes.

Task 2 - 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. 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.

Task 3 - Environmental Resource Permitting Assistance

We will assist project engineers in preparing relevant portions of the Environmental Resource Permit (ERP) application for submittal to South Florida Water Management District (SFWMD) and U.S. Army Corps of Engineers (COE). This work will include documentation and graphics quantifying wetland and resource impacts, a compensatory mitigation plan if applicable which will be specific to tidal wetland habitat, wetland habitat scoring, and coordination with agencies regarding listed species issues. This will include coordination with Federal commenting agencies such as EPA, USFWS, and NMFS who may have specific habitat or species related concerns. We will coordinate with agency staff to facilitate timely review of the ERP application through the process. We will provide technical responses to two agency requests (two each SFWMD and COE) for additional information) and will coordinate with staff reviewers. We will provide necessary documents to speed and facilitate the processing, such as Public Notice and permit drafts.

Task 4 - Team and Submittal Meetings

The Environmental Project Manager will prepare for and attend up to six team or submittal meetings. This scope includes preparation of responses to comments received from the project team or CID relating to the project plan submittals.

Task 5 – (OPTIONAL) Conduct Updated Submerged Resource Assessment and Prepare Report.

In the event Task 1 is conducted outside the valid survey window in order to collect information on existing conditions, then an updated survey may be required during the valid survey window. The updated survey will include the scope described above in Task 1.

SCHEDULE

We will provide our services in an orderly and expeditious fashion to meet the mutually agreed project schedule. However, it is important to note that National Marine Fisheries Service guidance requires valid seagrass surveys to be conducted between June 1st and September 30th. Surveys conducted outside of this timeframe may be used for planning purposes, but will not be accepted for Federal permitting purposes.

FEES AND BILLING

We will provide the services described in Tasks 1 through 5 in accordance with the fee schedule table provided below. All direct expenses are billed at cost, and are included in the

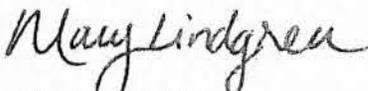
EW CONSULTANTS, INC.
NATURAL RESOURCE MANAGEMENT, WETLAND, AND ENVIRONMENTAL PERMITTING SERVICES

task fee amounts. In the event that you authorize our participation in additional services, these services will be provided on a time and materials basis in accordance with the attached billing rate schedule.

| Task | Description | Fee Amount |
|-------------|---|---------------------|
| 1. | Submerged Resource Assessment and Report | \$ 4,540.92 |
| 2. | Florida Bonneted Bat Survey | \$ 4,941.00 |
| 3. | Environmental Resource Permitting Assistance | \$ 16,483.44 |
| 4. | Team and Submittal Meetings | \$ 3,590.76 |
| 5. | *OPTIONAL Update Submerged Resource Assessment | \$ 3,210.66 |

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 Scientist | Project Manager | Environmental Scientist | CADD Technician | EXPENSE | TOTAL FEE | TOTAL HOURS |
|--|-------------------------------|-----------------|-------------------------|-----------------|---------|-------------------------------|-------------|
| TASK 1. SUBMERGED RESOURCE ASSESSMENT AND REPORT | \$41.67 | \$33.34 | \$28.34 | \$28.34 | | | |
| Collect data, conduct survey and prepare report | 4 | 20 | 16 | 8 | | \$ 1,513.64 | 48 |
| SUBTOTAL TASK 1 | 4 | 20 | 16 | 8 | \$ - | \$ 1,513.64 | 48 |
| TASK 2. FLORIDA BONNETED BAT SURVEY AND REPORT | | | | | | | |
| Collect data, conduct survey and prepare report | 4 | 24 | 16 | 8 | | \$ 1,647.00 | 52 |
| SUBTOTAL TASK 2 | 4 | 24 | 16 | 8 | \$ - | \$ 1,647.00 | 52 |
| TASK 3. ENVIRONMENTAL RESOURCE PERMITTING ASSISTANCE | | | | | | | |
| Application preparation, team and agency coordination, RAI responses | 8 | 80 | 64 | 24 | | \$ 5,484.48 | 176 |
| SUBTOTAL TASK 3 | 8 | 80 | 64 | 24 | \$ - | \$ 5,484.48 | 176 |
| TASK 4. TEAM AND SUBMITTAL MEETINGS | | | | | | | |
| Attendance at six meetings including planning and responses | 0 | 24 | 12 | 2 | | \$ 1,196.92 | 38 |
| SUBTOTAL TASK 4 | 0 | 24 | 12 | 2 | \$ - | \$ 1,196.92 | 38 |
| Project Summary Total Tasks 1-4 | 16 | 148 | 108 | 42 | \$0.00 | \$9,852.04 | 314 |
| Project Fee Total Tasks 1-4 | \$666.72 | \$4,934.32 | \$3,060.72 | \$1,190.28 | \$ - | \$9,852.04 | |
| | | | | | | *3.0 Multiplier = \$29,556.12 | |

OPTIONAL

| | | | | | | | |
|--|---------|----------|----------|----------|------|-------------------------------|----|
| TASK 5. OPTIONAL UPDATE SUBMERGED RESOURCE ASSESSMENT | | | | | | | |
| Collect data, conduct survey, and update report | 2 | 16 | 12 | 4 | | \$ 1,070.22 | 34 |
| SUBTOTAL TASK 5 | 2 | 16 | 12 | 4 | \$ - | \$ 1,070.22 | 34 |
| Project Fee Total Task 5 | \$83.34 | \$533.44 | \$340.08 | \$113.36 | \$ - | \$1,070.22 | |
| | | | | | | *3.0 Multiplier = \$ 3,210.66 | |

OEBO SCHEDULE 1

SOLICITATION/PROJECT/BID NAME: Jupiter Beach Road over Branch ICWW (934125)

SOLICITATION/PROJECT/BID NO.: 2021803

SOLICITATION OPENING/SUBMITTAL DATE: June 18, 2019

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, Inc.

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

CONTACT PERSON: Alan Gerwig

PHONE NO.: 561-792-9000

E-MAIL: agerwig@aga-engineering.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$205,315.16

Non-SBE MBE WBE SBE

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

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. HSQ Group, LLC | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | \$22,718.00 | | |
| 2. Terracon Consultants, Inc. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | \$18,676.50 | | |
| 3. EW Consultants, Inc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | \$32,766.78 | | |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |

(Please use additional sheets if necessary)

Total \$279,476.44

Total Bid/Offer Price \$ 279,476.44

Total Certified S/M/WBE Participation \$ 260,799.94

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

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.

Exhibit e
Page 1 of 6

Exhibit C
Page 2 of 6

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: 2021803

SOLICITATION/PROJECT NAME: Jupiter Beach Road over Branch ICWW (934125)

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): 12/28/21-12/27/24

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

| | | |
|--|--|-----------------------------------|
| Column 1 | Column 2 | Column 3 |
| <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 | | | | \$205,315.16 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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: \$205,315.16

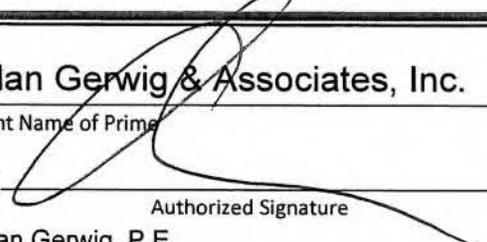
If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A
Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: _____

Alan Gerwig & Associates, Inc.

Print Name of Prime

By:  _____

Authorized Signature

Alan Gerwig, P.E.

Print Name

President

Title

Date: 08/25/2022

N/A

Print Name of Subcontractor/subconsultant

By: _____

Authorized Signature

Print Name

Title

Date: _____

Exhibit
Page 3 of 6

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: 2021803

SOLICITATION/PROJECT NAME: Jupiter Beach Road over Branch ICWW (934125)

Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: HSQ Group, LLC

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 03/13/21-03/21/24

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

| | | |
|--|--|-----------------------------------|
| Column 1 | Column 2 | Column 3 |
| <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"/> Supplier |
| | <input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American | |

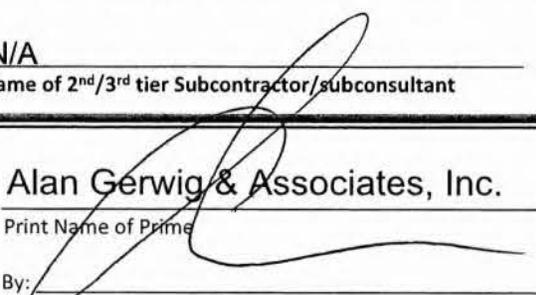
S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or 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 |
|-----------|--------------------|------------|-----------------|---------------------------|------------------------|
| | Surveying Services | | | | \$22,718.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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: \$22,718.00

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 2nd/3rd tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.
Print Name of Prime
By: 
Authorized Signature
Alan Gerwig, P.E.
Print Name
President
Title
Date: 08/25/2022

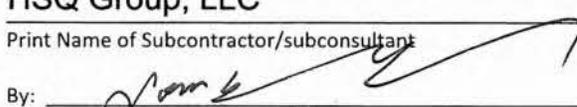
HSQ Group, LLC
Print Name of Subcontractor/subconsultant
By: 
Authorized Signature
Nour Shehadeh
Print Name
Managing Member
Title
Date: 08/25/2022

Exhibit C
Page 4 of 6

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: 2021803

SOLICITATION/PROJECT NAME: Jupiter Beach Road over Branch ICWW (934125)

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

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

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 |
|-----------|-----------------------------------|------------|-----------------|---------------------------|------------------------|
| | Geotechnical Engineering Services | | | | \$18,676.50 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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: \$18,676.50

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.

Name of 2nd/3rd tier Subcontractor/subconsultant _____ Price or Percentage: _____

Alan Gerwig & Associates, Inc.
 Print Name of Prime
 By: _____
 Authorized Signature
Alan Gerwig, P.E.
 Print Name
President
 Title
 Date: 10-25-22

Terracon Consultants, Inc.
 Print Name of Subcontractor/subconsultant
 By: _____
 Authorized Signature
MICHAEL J. O'CONNOR
 Print Name
PRINCIPAL
 Title
 Date: 10-21-2022

OEBO LETTER OF INTENT – SCHEDULE 2

Exhibit C
Page 5 of 6

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: 2021803

SOLICITATION/PROJECT NAME: Jupiter Beach Road over Branch ICWW (934125)

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

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 02/16/21-02/15/24

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

| | | |
|--|---|-----------------------------------|
| Column 1 | Column 2 | Column 3 |
| <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 |

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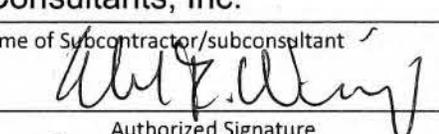
| Line Item | Item Description | Unit Price | Quantity/ Units | Contingencies/ Allowances | Total Price/Percentage |
|-----------|------------------------|------------|-----------------|---------------------------|------------------------|
| | Environmental Services | | | | \$32,766.78 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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: \$32,766.78

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 2nd/3rd tier Subcontractor/subconsultant

Alan Gerwig & Associates, Inc.
Print Name of Prime
By: 
Authorized Signature
Alan Gerwig, P.E.
Print Name
President
Title
Date: 08/25/2022

EW Consultants, Inc.
Print Name of Subcontractor/subconsultant
By: 
Authorized Signature
EDWARD K. WAINBERG
Print Name
PRESIDENT
Title
Date: 08/25/2022

OEBO LETTER OF INTENT – SCHEDULE 2

*Exhibit C
Page 6 of 6*

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: 2021803

SOLICITATION/PROJECT NAME: Jupiter Beach Road over Branch ICWW (934125)

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

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

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 |
|-----------|------------------------------------|------------|-----------------|---------------------------|------------------------|
| | Maintenance of Traffic for Borings | \$1,000 | 3 days | | \$3,000 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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: \$3,000

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.

All American Barricades Price or Percentage: \$3,000
 Name of 2nd/3rd tier Subcontractor/subconsultant

Terracon Consultants, Inc.

Print Name of Prime

By: [Signature]

Authorized Signature

Print Name

MICHAEL J. O'CONNOR
PRINCIPAL

Title

Date: 10-21-2022

All American Barricades

Print Name of Subcontractor/subconsultant

By: [Signature]

Authorized Signature

Print Name

JANET M Campana
Branch/Operations Manager

Title

Date: 11/19/2022

Search

Home Insured Tasks View Insured

Insured Name

Alan Gerwig & Associates, Inc.

Alan Gerwig & Associates, Inc.

Active Records Only
Advance Search

Insured Tasks Admin Tools

View

Insured

Notes

History

Deficiencies

Coverages

Requirements

Contract Screen

Add

Edit

Help

Video Tutorials

Insured

Name: Alan Gerwig & Associates, Inc.

Account Number: DX00000507

Address:

Status: Currently in Compliance.

Insured

Business Unit(s) DBA Number Print Insured Info Print Compliance Report

Account Information

Account Number: DX00000507

Risk Type: Standard - Professional Services

Do Not Call: Address Updated:

Address Information

Mailing Address

Physical Address

Insured: Alan Gerwig & Associates, Inc.

Address 1:

Address 2:

City:

State:

Zip:

Country:

Contract Information

Contract Number:

Contract Start Date:

Contract End Date:

Contract Effective Date:

Contract Expiration Date:

Description of Services:

Structural Engineering Annual Services

Safety Form II:

No

Contact Information

Contact Name: Elizabeth Joseph

Misc:

Phone Number: 5617929000

All Phone Number:

Fax Number:

E-Mail Address: ejoseph@ega-engineering.com

Approval Date:

Rush: No

Contract on File: No

Certificate Received: No

Indemnification Agreement: No

Tax Id: