Agenda Item #: 3-C-1

# PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

| Meeting Date:  | <b>December 5, 2023</b>  | [X] Consen<br>[ ] Worksl  |  |
|--|--|---|--|
| Department:<br>Submitted By:<br>Submitted For:   | Engineering & Pub<br>Engineering & Pub<br>Roadway Production   | lic Works Depart  |  |
|  | <u>I. EX</u> F   | CUTIVE BRIEF  | 1  |
| 2 (CSA) to the Ana<br>2023 (Contract) wi   | nual Structural Engineer   | ring Services Cont<br>ociates, Inc. (AGA  | Consultant Service Authorization No. ract (R2023-0260) dated March 14, in the amount of \$265,885.99 for 1 (934455) (Project).   |
| the replacement of improvements. On Initiatives of a 20% 5% must be Minor evaluation preferer 98% SBE participation. | the existing two lane January 5, 2022 the Go minimum mandatory Sity Business Enterprise (ace. AGA agreed to 100 tion for this CSA. AGA | three span bridge<br>al Setting Commit<br>small Business Ent<br>(MBE) for African<br>o% SBE participate<br>has an office loca | ssional services necessary to design<br>e and associated roadway approach<br>tee applied Affirmative Procurement<br>terprise (SBE) participation of which<br>American owned firms and an SBE<br>ion for the Contract. They agreed to<br>ated in Palm Beach County (County)<br>acture sales tax funding. District 4 |
| approved the Contr   | act with AGA to provided in <b>Exhibit B</b> of the att  | e structural engine   | ard of County Commissioners (BCC)<br>ering services throughout the County.<br>een negotiated as just and reasonable  |
| Basic Services (Lu   | imp Sum)   | \$187,353.00  | (Roadway Analysis and Plans,<br>Drainage Analysis and Plans,<br>Permits & Environmental,<br>Utilities, Signing & Marking,<br>Analysis and Plans).  |
| Reimbursable Services  | vices (Not to Exceed) (Not to Exceed) Total:   | \$ 59,032.99<br><u>\$ 19,500.00</u><br>\$265,885.99   | (Permit Fees and Geotechnical) (Post Design and Structural Post) Design)   |
| •  | e attached CSA and find<br>amends BCC approval.  | ling it in proper or  | der, the Engineering & Public Works  |
| Attachments: 1. Location Map 2. CSA No. 2 with   | n Exhibits A, B, C, D &  | Ebix Insurance Co   | ompliance (2)  |

**Sounty Engineer** 

Recommended b

# II. FISCAL IMPACT ANALYSIS

# A. Five Year Summary of Fiscal Impact:

| Fiscal Years                            | 2024       | 2025 | 2026 | 2027        | 2028 |
|---|------------|------|------|-------------|------|
| Capital Expenditures _                  | \$ 372,286 | -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                       | \$ 372,286 | -0-  | -0-  | -0-         | -0-  |
| # ADDITIONAL FTE POSITIONS (Cumulative) | -0-        | -0-  | -0-  | -0-         | -0-  |
| Is Item Included in                     |            | _    |      | <del></del> | 10 1 |

| Is | Item | Included in Current Budget? | Yes No V |
|----|------|-----------------------------|----------|
| Is | this | item using Federal Funds?   |          |
| Is | this | item using State Funds?     | Yes No 🗸 |

Budget Account No:

Fund 3950 Dept 361 Unit 1691 Object 6505-AE10

# Recommended Sources of Funds/Summary of Fiscal Impact:

Local Government One-Cent Infrastructure Surtax Barwick Rd. over LWDD Lat. 30 Canal (934455)

| Consultant Service Authorization (CSA  | ) 1 | No. 2      |
|--|-----|------------|
| Basic Services                         | \$  | 187,353.00 |
| • Reimbursable                         | \$  | 59,032.99  |
| • Optional Services                    | \$  | 19,500.00  |
| Total CSA #2                           | \$  | 265,885.99 |
|  |     |            |
| Estimated Staff Costs                  |     |            |
| <ul> <li>Roadway Production</li> </ul> | \$  | 53,200.00  |
| • Roadway Production: Right-of-Way     | \$  | 13,300.00  |
| • Survey                               | \$  | 13,300.00  |
| • Traffic                              | \$  | 26,600.00  |
| Total Staff Costs                      | \$  | 106,400.00 |
|  |     |            |

Fiscal Impact \$ 372,285.99

C. Departmental Fiscal Review: Dearny Rundleigh

III. REVIEW COMMENTS

| A. OFMB Fiscal and/or Contract Dev. and Control  OFMB AND 11/1  B. Approved as to Form  and Legal Sufficiency: | Contract Dev. and Control  11/6/3 | Š |
|--|-----------------------------------|---|
| and Legal Sufficiency:   | (                                 |   |
| Assistant County Attorney  |                                   |   |

C. Other Department Review:

Department Director

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

# PROJECT LOCATION

# BARWICK ROAD OVER LAKE WORTH DRAINAGE DISTRICT L-30 CANAL (934455)

Palm Beach County Project #2022801





# **LOCATION MAP**

**ATTACHMENT 1** 

# CONSULTANT SERVICE AUTHORIZATION NO. 2 UNDER THE ANNUAL STRUCTURAL ENGINEERING SERVICES CONTRACT

Project Name: Barwick Road over Lake Worth Drainage District L-30 Canal (934455)

Project No: <u>2022801</u>

Commission District No.: 4

SBE Participation for this authorization is 100%

SBE Participation to date for this CSA is 100%

EBO Commitment is 98% SBE & 15% MBE (AA)

This authorization is under the EBO Ordinance.

# PALM BEACH COUNTY

BOARD OF COUNTY COMMISSIONERS Acct. No.: 3950-361-1691-6505-AE10

Consultant Service Authorization (CSA) No. 2 to 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 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 Barwick Road over LWDD L-30 Canal (934455) project. Design and permit the bridge replacement in accordance with the attached **EXHIBIT A** dated September 7, 2023.
- **5.** The compensation to be paid CONSULTANT for providing the requested services as detailed in **EXHIBIT B** shall be:

| [x] Basic Services in a lump sum fee of | \$187,353.00 |
|---|--------------|
| [x] Reimbursable Expenses capped at     | \$ 59,032.99 |
| [x] Optional Services capped at         | \$ 19,500.00 |
| Totaling                                | \$265 885 00 |

- [x] OEBO Schedules 1 & 2 EXHIBIT C
- [x] Project History EXHIBIT D
- **6.** All terms of the CONTRACT, as amended, shall apply to this CSA.

ATTACHMENT 2

CSA No. 2 Page 1 of 3 Project #2022801

# CONSULTANT SERVICE AUTHORIZATION NO. 2 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:  | Ammazzad as to Tamas and Conditions |
|--|-------------------------------------|
| Alan Gerwig & Associates, Inc.   | Approved as to Terms and Conditions |
| Federal ID: ALANOVI2   | 1112                                |
| $/\Lambda$   | By: se Sulf pe                      |
| Signed:  | Typed Name: Morton L. Rose, P.E.    |
| Typed Name: Alan Gerwig, P.E., LEED AP   | Title: <u>Division Director</u>     |
| Title: President   | Tito. <u>Bivision Biroctor</u>      |
| Date and the control of the control  |                                     |
| The state of the s |                                     |
| ( A Company South  |                                     |
| (Corporate Seal)   |                                     |
|  |                                     |
| ATTEST WITNESS:  |                                     |
| Signed:  |                                     |
| v  |                                     |
| Typed Name: S(NON A. COLEMAN)  |                                     |
| Alien in the second sec |                                     |
| Title: Product MANNACT   |                                     |
| Title: MANNACI   |                                     |
| I t  |                                     |
| Date:  |                                     |
|  |                                     |

# CONSULTANT SERVICE AUTHORIZATION NO. 2 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: Mayor  |
| Date:   |
| ATTEST: Joseph Abruzzo Clerk of the Circuit Court & Comptroller By:             |
| Deputy Clerk  |
| Approved as the Form and Legal Sufficiency By: Typed Name: Yelizaveta B. Herman |
|   |
| Title: Assistant County Attorney  |

 $N: \label{local_condition} N: \label{local_con$ 

12798 W. Forest Hill Boulevard Suite 201

Wellington, FL 33414 Phone: (561) 792-9000 Fax: (561)792-9901

CA No. 7969

April 11, 2022

Rev. June 30, 2022

Rev. September 8, 2022 Rev. February 3, 2023

Rev. February 15, 2023

Consulting Engineers

3 com Fee ol

Kristine Frazell-Smith, P.E. Palm Beach County, Roadway Production Division 2300 N. Jog Road, Suite 3W-33 West Palm Beach, FL 33411

RE: Barwick Road Bridge over L-30 Canal Replacement (Bridge #934455)

Rev. May 1, 2023 Rev. June 3, 2023

Rev. September 5, 2023 Rev. September 7, 2023

Palm Beach County Project No. 2022801

Dear Ms. Frazell-Smith:

# **Basic Scope of Services**

AGA will provide design services required to prepare construction documents and specifications for the replacement of the existing two lane, three span bridge and associated roadway approach improvements on Barwick Road over the LWDD L-30 Canal. 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, construction document preparation, permitting, and utility coordination, for bidding and construction. A detour around the bridge site of about 2 miles is available. Therefore, the bridge design scope assumes that the bridge will be closed to traffic during construction and constructed in one phase.

# Design Survey

The design survey for this project will be performed by HSQ Group 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 the survey will include 25 feet outside the Right-of-Way, from 225 feet north of the center of the L-30 Canal to 225' south of the center of the canal. For the L-30 Canal R/W, 25' outside of the canal Right-of-Way, 125 feet east and west of Barwick Road center of road. 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:

• Two 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 two 6' sidewalks. 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.
- The survey and typical section package will be submitted for comment and approval prior to commencing the design phase of the project.

# **Roadway Improvements**

Roadway construction plans for the restoration of approximately 100LF of approach roadway will be prepared based on the approved typical section. Drainage improvements will consist of providing water quality pretreatment and conveyance to the L-30 canal for the bridge deck and immediate swale area adjacent to the bridge.

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.

# Bridge Replacement

The existing bridge will be replaced by a three-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

### Permitting

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

- South Florida Water Management District Environmental Resource Permit.
- Lake Worth Drainage District R/W Permit
- Lake Worth Drainage District drainage permit
- Army Corp of Engineers Section 404 dredge and fill permit and Environmental permit

AGA will hold pre-application meetings with the Lake Worth Drainage District, South Florida Water Management District and ACoE 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 subconsultant 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%, and Final submittals. All plan submittals shall include one PDF copy and CADD files. 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%, and Final submittals 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, public outreach, shop drawing review, requests for clarification from contractors, field observations. The bridge load rating calculations will be performed based on the as-built drawings per the FDOT requirements.

The fees are estimated and are an allowance that will be billed on an hourly basis.

# Fees: Basic Services

| Prime Consultant Fee:                  | \$187,353.00  |
|--|---------------|
| Reimbursable Fees                      |               |
| HSQ Group - Design Survey              | \$17,141.76   |
| Pacifica Eng. Svs Geotechnical         | \$17,432.75   |
| EW Consulting – Environmental          | \$15,438.48   |
| Permit Fees*                           | \$9,020.00    |
| Reimbursable Total                     | \$59,032.99   |
| * Permit fees associated with LWDD, SF | WMD, and ACoE |

# Fees: Optional Services

| Post Design Services (prime consultant) | \$7,800.00        |
|---|-------------------|
| Public Involvement (prime consultant)   | \$3,900.00        |
| Bridge Load Rating (prime consultant)   | <u>\$7,800.00</u> |
| Ontional Services Total                 | \$19 500 00       |

# 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

Exhibit B: Page 1 of 28

### **ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: County:

Barwick Road Bridge Replacement over the L-30 Canal

Palm Beach County Proj. No.

Palm Beach County 2022801

Consultant Name: Alan Gerwig & Associates, Inc.

Date: 9/7/2023

| Staff Classification                   | Total Staff Hours | Sr. Engineer | Project Mgr | Project Eng | Designer   | SH<br>By | Salary<br>Cost By | Average<br>Rate Per |
|--|-------------------|--------------|-------------|-------------|------------|----------|-------------------|---------------------|
|  | Summary - Firm"   | \$65.00      | \$61.00     | \$57.00     | \$36.00    | Activity | Activity          | Task                |
| 2. Roadway Analysis                    | 64                | 32           | 13          | 13          | 6          | 64       | \$3,830           | \$59.84             |
| 3. Roadway Plans                       | 82                | 33           | 21          | 16          | 12         | 82       | \$4,770           | \$58.17             |
| 4. Drainage Analysis                   | 92                | 46           | 28          | 14          | 4          | 92       | \$5,640           | \$61.30             |
| 5. Drainage Plans                      | 24                | 10           | 6           | 5           | 3          | 24       | \$1,409           | \$58.71             |
| 6. Permits and Environmental           | 98                | 59           | 10          | 0           | 29         | 98       | \$5,489           | \$56.01             |
| 7. Utilities                           | 20                | 12           | 6           | 0           | 2          | 20       | \$1,218           | \$60.90             |
| 8. Signing & Marking Analysis          | 16                | 8            | 5           | 2           | 1          | 16       | \$975             | \$60.94             |
| 9. Signing & Marking Plans             | 12                | 5            | 3           | 2           | 2          | 12       | \$694             | \$57.83             |
| 19 Structures Plans                    | 69                | 31           | 10          | 14          | 14         | 69       | \$3,927           | \$56.91             |
| 21. Short Span Concrete Bridge         | 572               | 315          | 143         | 57          | 57         | 572      | \$34,499          | \$60.31             |
| Basic Services Total Staff Hours       | 1,049             | 551          | 245         | 123         | 130        | 1,049    | \$62,451          | \$59.53             |
| Basic Services Total Staff Cost        |                   | \$35,815.00  | \$14,945.00 | \$7,011.00  | \$4,680.00 |          | \$62,451.00       | \$59.53             |
| Optional Services                      |                   |              |             |             |            |          |                   |                     |
| Proj. Activity 1: Post Design Services | 40                | 40           |             |             |            | 40       | \$2,600           | \$65.00             |
| Proj. Activity 1: Public Involvement   | 20                | 20           |             |             |            | 20       | \$1,300           | \$65.00             |
| Proj. Activity 21: Bridge Load Rating  | 40                | 40           |             |             |            | 40       | \$2,600           | \$65.00             |
| Basic Services Total Staff Hours       | 100               | 100          |             |             |            | 100      |                   |                     |
| Basic Services Total Staff Cost        |                   | \$6,500.00   |             |             |            |          | \$6,500.00        | \$65.00             |

| EBO SBE & N/WBE Fee Summary                   | SBE \$       | M/WBE      |
|---|--------------|------------|
| Prime Consultant Fee                          | \$215,873.00 |            |
| HSQ Group (5.02) Fee                          | \$17,141.76  |            |
| Pacifca Engineering Services (6.01, 6.02) Fee | \$17,432.75  | \$17,432.7 |
| EW Consulting, Inc Fee                        | \$15,438.48  |            |
|   |              | /          |
| · .   |              | /          |
| Totals  | \$265,885.99 | 17,432,7   |

\*SBE % Achieved 100% \*SBE % Committed 98.00%

\*M/WBE % Achieved 6.56% \*M/WBE % Committed 15.00%

| BASIC SERVICES - PRIME        |   |              |  |  |  |  |  |  |
|-------------------------------|---|--------------|--|--|--|--|--|--|
| SALARY RELATED COSTS:         |   | \$62,451.00  |  |  |  |  |  |  |
| Contract Multiplier :         | 3 | \$187,353.00 |  |  |  |  |  |  |
|                               |   |              |  |  |  |  |  |  |
|                               |   |              |  |  |  |  |  |  |
|                               |   |              |  |  |  |  |  |  |
|                               |   |              |  |  |  |  |  |  |
|                               |   | /            |  |  |  |  |  |  |
| SUBTOTAL Prim Consultant FEE: |   | \$187,353.00 |  |  |  |  |  |  |
|                               |   |              |  |  |  |  |  |  |

| - SUBCONSULTANT        | S and PERMIT F                               | EES   |  |   |
|------------------------|--|---|--|---|
| Q Group LLC - Desig    | n Survey                                     |   | \$17,141.76  |   |
| cifica Engineering Se  | rvices LLC- Geote                            | chnical   | \$17,432.75  |   |
| / Consulting Inc - Env | rironmental                                  |   | \$15,438.48  |   |
|                        |  |   | \$9,020.00   |   |
|                        |  |   |  | $\angle$  |
| BURSABLES              | <u> </u>                                     |   | \$59,032.99  |   |
|                        |  |   |  |   |
| ES                     |  |   |  |   |
| ost Design             |  |   | \$2,600.00   |   |
| Public Involvement     |  |   | \$1,300.00   |   |
| Bridge Load Rating     |  |   | \$2,600.00   |   |
| ier:                   | 3  |   | \$19,500.00  |   |
|                        |  |   |  | $\overline{}$   |
| ONAL SERVICES          |  |   | \$19,500.00  |   |
| TIMATED FEE:           |  |   | \$265,885.99   |   |
|                        | Q Group LLC - Desig<br>cifica Engineering Se | Q Group LLC - Design Survey cifica Engineering Services LLC- Geote V Consulting Inc - Environmental  BURSABLES  Dest Design  Public Involvement  Bridge Load Rating lier:  3  DNAL SERVICES | cifica Engineering Services LLC- Geotechnical V Consulting Inc - Environmental  BURSABLES  DES  DISTRICT OF THE PROPERTY OF TH | Q Group LLC - Design Survey \$17,141.76 cifica Engineering Services LLC- Geotechnical \$17,432.75  V Consulting Inc - Environmental \$15,438.48 \$9,020.00  BURSABLES \$59,032.99 €  SES \$59,032.99 €  Dest Design \$2,600.00  Public Involvement \$1,300.00  Sridge Load Rating \$2,600.00  DNAL SERVICES \$19,500.00 ➤ |

Exhibit B: Page 2 of 28

|             | Project Activity 1: General Tasks              |             |                |               |                |  |  |  |  |  |  |
|-------------|--|-------------|----------------|---------------|----------------|--|--|--|--|--|--|
| Task<br>No. | Task   | Units       | No of<br>Units | Hours/ Unit   | Total<br>Hours | Comments   |  |  |  |  |  |
| 1.1         | Public Involvement                             | LS          | 1              | 20            | 20             | 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              | 40            | 40             | Optional Services                                      |  |  |  |  |  |
| 1.8         | Railroad, Transit, and/or Airport Coordination | LS          | 1              | 0             | 0              |  |  |  |  |  |  |
| 1.9         | Project Manager Coordination Meetings          | EA          | 0              | 0             | 0              |  |  |  |  |  |  |
|             |  | <del></del> | 1. Genera      | l Tasks Total | 60 🇸           |  |  |  |  |  |  |

|             | Project Activity 2: Roadway Analysis                            |       |                |               |             |                                      |  |  |  |  |  |  |
|-------------|---|-------|----------------|---------------|-------------|--------------------------------------|--|--|--|--|--|--|
| Task<br>No. | Task  | Units | No of<br>Units | Hours/ Unit   | Total Hours | Comments                             |  |  |  |  |  |  |
| 2.1         | Typical Section Package   | LS    | 1              | 2             | 2           |                                      |  |  |  |  |  |  |
| 2.2         | Horizontal /Vertical Master Design Files                        | LS    | 1              | 16            | 16          |                                      |  |  |  |  |  |  |
| 2.3         | Roundabout Design Analysis                                      | LS    | 1              | 0             | 0           |                                      |  |  |  |  |  |  |
| 2.4         | Design Report   | EA    | 1              | 10            | 10          |                                      |  |  |  |  |  |  |
| 2.5         | Computation Book & Quantities                                   | EA    | 4              | 3             | 12          | 65%, 96%, 100%, and Final submittals |  |  |  |  |  |  |
| 2.6         | Cost Estimate   | EA    | 4              | 3             | 12          | 65%, 96%, 100%, and Final submittals |  |  |  |  |  |  |
| 2.7         | Technical Special Provisions and Modified<br>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              | 6.            | 12          | 2 site visits                        |  |  |  |  |  |  |
| 2.12        | Technical Meetings  | EA    | 2              | 0             | 0           | /                                    |  |  |  |  |  |  |
|             |   | 2. R  | loadway A      | nalysis Total | 64          |                                      |  |  |  |  |  |  |

|             |  |       | Proj                        | ect Activity            | 3: Roadw       | vay Plans   |
|-------------|--|-------|-----------------------------|-------------------------|----------------|---|
| Task<br>No. | Task   | Units | No. of<br>Units or<br>Sheet | Hours/ Unit<br>or Sheet | Total<br>Hours | Comments  |
| 3.1         | Key Sheet  | Sheet | 1                           | 4                       | 4              | Prepare roadway plans key sheet   |
| 3.2         | Typical Sections                                   | EA    | 1                           | 2                       | 2              | 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                           | 8                       | 8              |   |
| 3.5         | Project Control Sheet – Survey Plans               | Sheet | 0                           | 0                       | 0              |   |
| 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                           | 12                      | 12             | Project length approximately 400 LF presented on 1 sheet at 1"=40'                        |
| 3.8         | Profile Sheet                                      | Sheet | 0                           | 0                       | 0              |   |
| 3.9         | Plan Sheet   | Sheet | 0                           | 0                       | 0              |   |
| 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              |   |
| 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 embankman stabilization details                      |
| 3.16        | Right-of-Way Acquisition Exhibit                   | Sheet | 0                           | 0                       | 0              |   |
| 3.17        | Roadway Soil Survey Sheets                         | Sheet | 1                           | 2                       | 2              | Incorporate soil logs   |
| 3.18        | Railroad Detail Sheets                             | Sheet | 0                           | 0                       | 0              |   |
| 3.19        | Cross Sections                                     | EA    | 4                           | 3                       | 12             | 4 roadway x-sections  |
|             |  |       | 3. Roadway                  | Plans Total             | 82 🗸           |   |

|             | Project Activity 4: Drainage Analysis                      |       |                |               |                |   |  |  |  |  |  |
|-------------|--|-------|----------------|---------------|----------------|---|--|--|--|--|--|
| Task<br>No. | Task   | Units | No of<br>Units | Hours/ Unit   | Total<br>Hours | Comments  |  |  |  |  |  |
| 4.1         | Drainage Map Hydrology                                     | LF    | 0              | 0             | 0              |   |  |  |  |  |  |
| 4.2         | Determine Base Clearance Water Elevation                   | EA    | 0              | 0             | 0              |   |  |  |  |  |  |
| 4.3         | Pond Siting Analysis and Report                            | EA    | 0              | 0             | 0              |   |  |  |  |  |  |
| 4.4         | Design of Cross Drains                                     | EA    | 0              | 0             | 0              |   |  |  |  |  |  |
| 4.5         | Design of Roadside Ditches                                 | LF    | 1              | 4             | 4              | 4 inlets, 2 cross drains and 2 outfalls into LWDD L-30 canal              |  |  |  |  |  |
| 4.6         | Design of Storm Drains                                     | EA    | . 4            | 2             | 8              |   |  |  |  |  |  |
| 4.7         | French Drain Systems                                       | LF    | 1              | 4             | 4              | 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              | 60            | 60             | Bridge hydraulic analysis and report per LWDD requirements                |  |  |  |  |  |
| 4.10        | Technical Special Provisions / Modified Special Provisions | LS    | 1              | 0             | 0              | Optional Services   |  |  |  |  |  |
|             |  | 4.    | Drainage A     | nalysis Total | 92 🗸           |   |  |  |  |  |  |

|             |   |       |       | Project A                | ctivity 5: [            | Prainage Pl | ans   |
|-------------|---|-------|-------|--------------------------|-------------------------|-------------|---|
| Task<br>No. | Task                                    | Scale | Units | No. of Units<br>or Sheet | Hours/ Unit<br>or Sheet | Total Hours | Comments  |
| 5.1         | Drainage Area Map                       |       | Sheet | 1                        | 6                       | 6           |   |
| 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           |   |
|             |   |       |       | 5. Drainage              | Plans Total             | 24 1/       |   |

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|             | Project Activity 6: Permits & Environmental          |            |                 |                 |                |   |  |  |  |  |  |  |
|-------------|--|------------|-----------------|-----------------|----------------|---|--|--|--|--|--|--|
| Task<br>No. | Task   | Units      | No. of<br>Units | Hours/<br>Units | Total<br>Hours | Comments  |  |  |  |  |  |  |
| 6.1         | Pond Site Alternatives                               | EA         | 0               | 0               | 0              |   |  |  |  |  |  |  |
| 6.2         | Establish Wetland Jurisdictional Lines               | LS         | 1               | 0               | 0              |   |  |  |  |  |  |  |
| 6.3         | Existing Permit Analysis                             | LS         | 1               | 0               | 0              |   |  |  |  |  |  |  |
| 6.4         | Complete and Submit All Required Permit Applications | EA         | 1               | 60              | 60             | SFWMD ERP, WUD, ACOE, LWDD RW, LWDD Drainage Connection. Environmental Component by EW Consulting     |  |  |  |  |  |  |
| 6.5         | Prepare Dredge and Fill Sketches                     | LS         | 1               | 24              | 24             | Prepare the cut and fill sketches for ACOE permit application   |  |  |  |  |  |  |
| 6.6         | Mitigation Coordination and Meetings                 | EA         | 0               | 0               | 0              |   |  |  |  |  |  |  |
| 6.7         | Technical Meetings                                   | EA         | 2               | 7               | 14             | 2 meetings, 2 Attendees at 3.5 hrs per meeting. Includes meeting prep, attendance and minutes of mtg. |  |  |  |  |  |  |
|             |  | 6. Permits | and Environ     | mental Total    | 98 🗸           |   |  |  |  |  |  |  |

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|             | Project Activity 7: Utilities                 |       |             |                |                |   |  |  |  |  |  |
|-------------|---|-------|-------------|----------------|----------------|---|--|--|--|--|--|
| Task<br>No. | Task  | Units | No of Units | Hours/ Unit    | Total<br>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    | 2           | 4              | 8              | 2 meetings (pothole and 100%), 2 attendees  |  |  |  |  |  |
|             |   |       | 7. U        | tilities Total | 20 🗸           | ·   |  |  |  |  |  |

|             | Project Activity 8: Signing & Marking Analysis |          |                 |                 |                |                                     |  |  |  |  |
|-------------|--|----------|-----------------|-----------------|----------------|-------------------------------------|--|--|--|--|
| Task<br>No. | Task   | Units    | No. of<br>Units | Hours/<br>Units | Total<br>Hours | Comments                            |  |  |  |  |
| 8.1         | Master Design Files                            | LS       | 1               | 8               | 8              |                                     |  |  |  |  |
| 8.2         | Quantities                                     | EA       | 4               | 1               | 4              | 65%, 96%,100%, and Final submittals |  |  |  |  |
| 8.3         | Cost Estimate                                  | EA       | 4 ·             | 1               | 4              | 65%, 96%,100%, and Final submittals |  |  |  |  |
| 8.4         | Other Signing and Pavement Marking             | LS       | 1               | 0               | 0              |                                     |  |  |  |  |
|             | 8. Signing and                                 | Pavement | Marking Ar      | nalysis Total   | 16             |                                     |  |  |  |  |

|             | Project Activity 9: Signing & Marking Plans        |           |             |                         |                |          |  |  |  |  |  |
|-------------|--|-----------|-------------|-------------------------|----------------|----------|--|--|--|--|--|
| Task<br>No. | Task   | Units     | No of Units | Hours/ Unit or<br>Sheet | Total<br>Hours | Comments |  |  |  |  |  |
| 9.1         | Key Sheet  | Sheet     | 1           | 2                       | 2              |          |  |  |  |  |  |
| 1 9/        | General Notes/Pay Item Notes/Summary of Quantities | Sheet     | 1           | 2                       | 2              |          |  |  |  |  |  |
| 9.3         | Typical Details                                    | EA        | 0           | 0                       | . 0            |          |  |  |  |  |  |
| 9.4         | Plan Sheet   | Sheet     | 1           | 8                       | 8              | /        |  |  |  |  |  |
|             | 9. Signi   | ng and Pa | vement Mark | ing Plans Total         | 12             |          |  |  |  |  |  |

|             |                       |           |       | Pı              | roject Acti  | ity 18: Rei | mbursables                     |
|-------------|-----------------------|-----------|-------|-----------------|--------------|-------------|--------------------------------|
| Task<br>No. | Task                  | Scale     | Units | No. of<br>Units | \$\$/Unit    | Total Cost  | Comments                       |
| 18.1        | Prints for Submittals |           |       |                 |              |             |                                |
|             | Plans                 | 11x17     | Sheet | 0               | \$ -         | \$ -        |                                |
|             | Other                 | 8 1/2x 11 | Sheet | 0               | \$ -         | \$ -        |                                |
| 18.2        | Permit Fee            |           |       |                 |              |             |                                |
|             | SFWMD                 |           | EA    | 1               | \$ 4,000.00  | \$ 4,000.00 | ERP & WUD                      |
|             | LWDD                  |           | EA    | 1               | \$ 5,020.00  | \$ 5,020.00 | Bridge and Drainage Connection |
|             | ACOE                  |           | EA    | 0               | \$ -         | \$ -        |                                |
|             | Improvement District  |           | EA    | 0               | \$ -         | \$ -        |                                |
|             | Municipality          |           | EA    | 0               | \$ -         | \$ -        |                                |
|             | ERM                   |           | EA    | 0               | \$ -         | \$ -        |                                |
| 18.3        | Other                 |           | LS    | 1               | \$ -         | \$ -        |                                |
|             |                       |           |       | 18. Reimbur     | sables Total | \$ 9,020.00 |                                |

|             | Project Activity 19: Structural Plans                        |          |                  |                            |       |   |  |  |  |  |  |
|-------------|--|----------|------------------|----------------------------|-------|---|--|--|--|--|--|
| Task<br>No. | Task   | Units    | No. of Units     | Hours per<br>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                | 6                          | 12    |   |  |  |  |  |  |
| 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                | 8                          | 8     | Identify and insert appropriate FDOT Standard Plans                                     |  |  |  |  |  |
| 19.10       | Existing Bridge Plans  | LS       | 1                | 0                          | 0     |   |  |  |  |  |  |
| 19.11       | Temporary Bridge Plans                                       | LS       | 1                | 0                          | 0     |   |  |  |  |  |  |
| 19.12       | Quantites  | EA       | 4                | 6                          | 24    | Estimate of Quantities to accompany cost estimates at 65%, 96%, 100% & Final Submittals |  |  |  |  |  |
| 19.13       | Cost Estimate  | EA       | 4                | 2                          | 8     | 4 Submittals (see item 19.12 comments above)  |  |  |  |  |  |
|             | 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       | 2                | 6                          | 12    | Two field reviews throughout design process   |  |  |  |  |  |
| 19.18       | Technical Meetings   | EA       | 0                | 0                          | 0 /   | (LIST)  |  |  |  |  |  |
|             |  | 19. Stru | ctures - Structu | ıral Plans Total           | 69    |   |  |  |  |  |  |

|             | Project Activity 21: Short Span Concrete Bridge |             |                 |                         |                |   |  |  |  |  |
|-------------|---|-------------|-----------------|-------------------------|----------------|---|--|--|--|--|
| Task<br>No. | Task  | Units       | No. of<br>Units | Hours/ Unit<br>or Sheet | Total<br>Hours | Comments  |  |  |  |  |
|             | General Layout Design and Plans                 |             |                 |                         |                |   |  |  |  |  |
| 21.1        | Overall Bridge Final Geometry                   | LS          | 1               | 16                      | 16             |   |  |  |  |  |
| 21.2        | Expansion/Contraction Analysis                  | EA Unit     | 1               | 4                       | 4              |   |  |  |  |  |
| 21.3        | General Plan and Elevation                      | Sheet       | 1               | 40                      | 40             |   |  |  |  |  |
| 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               | 20                      | 40             | Once custome approach slab design on north end to accommodate LWDD access driveway and barrier wall           |  |  |  |  |
| 21.6        | Miscellaneous Details                           | Sheet       | 3               | 20                      | 60             | (i.e. wingwall, radius barrier walls and terminations, approach slabs, corner sheet piles)                    |  |  |  |  |
|             | End Bent Design and Plans                       |             |                 |                         |                |   |  |  |  |  |
| 21.7        | End Bent Geometry                               | EA End Bent | 2               | 16                      | 32             | ,   |  |  |  |  |
| 21.8        | End Bent Structural Design                      | EA Design   | 2               | 20                      | 40             |   |  |  |  |  |
| 21.9        | End Bent Plan and Elevation                     | Sheet       | 2               | 10                      | 20             |   |  |  |  |  |
| 21.10       | End Bent Details                                | Sheet       | 2               | 12                      | 24             |   |  |  |  |  |
|             | Intermediate Bent Design and Plans              |             |                 |                         |                |   |  |  |  |  |
| 21.11       | Bent Geometry                                   | EA Bent     | 2               | 8                       | 16             | 2 intermediate bent geometry designs required   |  |  |  |  |
| 21.12       | Bent Stability Analysis                         | EA Analysis | 1               | 20                      | 20             | )   |  |  |  |  |
| 21.13       | Bent Structural Design                          | EA Design   | 1               | 30                      | 30             |   |  |  |  |  |
| 21.14       | Bent Plan and Elevation                         | Sheet       | 1               | 24                      | 24             |   |  |  |  |  |
| 21.15       | Bent Details                                    | Sheet       | 1               | 12                      | 12             |   |  |  |  |  |

| Task<br>No. | Task  | Units     | No. of<br>Units | Hours/ Unit<br>or Sheet | Total<br>Hours | Comments  |  |  |  |  |
|-------------|---|-----------|-----------------|-------------------------|----------------|---|--|--|--|--|
|             | Miscellaneous Substructure Design and Plans   |           |                 |                         |                |   |  |  |  |  |
| 21.16       | Foundation Layout                             | Sheet     | 1               | 20                      | 20             | Foundation layout and incorporate bridge boring soil logs and prepare foundation layout |  |  |  |  |
|             | Miscellaneous Superstructure Design and Plans |           |                 |                         |                |   |  |  |  |  |
| 21.17       | Finish Grade Elevation Calculation            | LS        | 1               | 16                      | 16             |   |  |  |  |  |
| 21.18       | Finish Grade Elevations                       | Sheet     | 1               | 16                      | 16             |   |  |  |  |  |
|             | Cast-in-Place Slab Bridges                    |           |                 |                         |                |   |  |  |  |  |
| 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              |   |  |  |  |  |
|             | Prestressed Slab Unit Bridges                 |           |                 |                         |                |   |  |  |  |  |
| 21.22       | Prestressed Slab Unit Design                  | EA Design | 2               | 16                      | 32             | 4unique bridge deck slab units will be required   |  |  |  |  |
| 21.23       | Prestressed Slab Unit Layout                  | Sheet     | 2               | 20                      | 40             |   |  |  |  |  |
| 21.24       | Prestressed Slab Unit Details and Schedule    | Sheet     | 1               | 12                      | 12             | Detailing of 4 unique slab units  |  |  |  |  |
| 21.25       | Deck Topping Reinforcing Layout               | Sheet     | 1               | 18                      | 18             |   |  |  |  |  |
| 21.26       | Superstructure Sections and Details           | Sheet     | 1               | 20                      | 20             |   |  |  |  |  |
|             | Reinforcing Bar List                          |           |                 |                         |                |   |  |  |  |  |
| 21.27       | Preparation of Reinforcing Bar List           | Sheet     | 1               | 20                      | 20             |   |  |  |  |  |
|             | Load Rating                                   |           |                 |                         |                |   |  |  |  |  |
| 21.28       | Load Ratings                                  | EA Unit   | 1               | 40                      | 40             |   |  |  |  |  |
| L           | 21. Short Span Concrete Bridge Total 612      |           |                 |                         |                |   |  |  |  |  |

# **South Florida Water Management District**

# 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  |
| 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                                       |
| <ul> <li>Project area &lt; 100 acres; &lt; 10 acres wetlands or surface waters; &lt; 50 boat slips\$ 7,500</li> </ul>  |
| <ul> <li>Project area &lt; 640 acres; &lt; 50 acres wetlands or surface waters; &lt; 50 boat slips\$ 13,125</li> </ul> |
| • Project area > 640 acres; > 50 acres wetlands or surface waters; > 50 boat slips                                     |
| New Individual Agriculture or Silviculture Permit  |
| Project area < 10 acres; < 1 acre wetland or surface water   |
|  |
| Project area < 40 acres; < 3 acres wetlands or surface waters  |
| Project area < 100 acres; < 10 acres wetlands or surface waters  |
| Project area < 640 acres; < 50 acres wetlands or surface waters  |
| Project area > 640 acres; > 50 acres wetlands or surface waters  |
| Individual or Conceptual Permit Major Modification (excludes Agriculture, Mitigation Banks)                            |
| Project area < 10 acres; no wetlands or surface waters; no boat slips\$ 1,200-   |
| <ul> <li>Project area &lt; 10 acres; &lt; 1 acre wetland or surface waters; &lt; 10 boat slips\$ 2,100</li> </ul>      |
| <ul> <li>Project area &lt; 40 acres; &lt; 3 acres wetlands or surface waters; &lt; 30 boat slips\$ 3,300</li> </ul>    |
| • Project area < 100 acres; < 10 acres wetlands or surface waters; < 50 boat slips\$ 4,500                             |
| <ul> <li>Project area &lt; 640 acres; &lt; 50 acres wetlands or surface waters; &lt; 50 boat slips\$ 7,875</li> </ul>  |
| • 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   |
| • Project area < 40 acres; < 3 acres wetlands or surface waters  |
| Project area < 100 acres; < 10 acres wetlands or surface waters\$ 2,417  |
| Project area < 640 acres; < 50 acres wetlands or surface waters  |
| Project area > 640 acres; > 50 acres wetlands or surface waters\$ 3,963  |
| The jobs area is a few acres, is see acres we trained on surface water, similar minimum, and a species                 |
| 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\$  |
| Transfer of ownership\$  |
| Transfer from construction to operation phase\$  |
| All other minor modifications (Letter Modification)  |
| New Individual or Conceptual Permit for a Mitigation Bank  |
| Permit area < 100 acres \$ 7,500   |
|  |

# South Florida Water Management District Ahibit B: Page 16 of 28 Effective 7/31/2014

# **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  | • •  |
| Max Month Allocation > 300 MGM  | • •  |
|   |  |
| Individual Mining/Dewatering  |  |
| Individual Mining/Dewatering  • Standard Individual Permit <= 1 year  | \$ 500   |
| Standard Individual Permit <= 1 year  |  |
| Standard Individual Permit <= 1 year  | \$ 1,800   |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> <li>Master Individual Permit</li> </ul>   | \$ 1,800   |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> </ul>   | \$ 1,800<br>\$ 4,000   |
| <ul> <li>Standard Individual Permit &lt;= 1 year.</li> <li>Standard Individual Permit &gt; 1 year.</li> <li>Master Individual Permit</li> </ul> Individual Industrial < 20 years  | \$ 1,800<br>\$ 4,000<br>\$ 1,400   |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> <li>Master Individual Permit</li> <li>Individual Industrial &lt; 20 years</li> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul>   | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750   |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> <li>Master Individual Permit</li> <li>Individual Industrial &lt; 20 years</li> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 300 MGM</li> <li>Max Month Allocation &gt; 300 MGM</li> </ul>  | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750   |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li></ul>  | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500   |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> <li>Master Individual Permit</li> </ul> Individual Industrial < 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 300 MGM</li> <li>Max Month Allocation &gt; 300 MGM</li> </ul> Individual Industrial >= 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul> Individual Industrial >= 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul>   | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500<br>\$ 2,000                                     |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li></ul>  | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500<br>\$ 2,000<br>\$ 3,650                         |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> <li>Master Individual Permit</li> </ul> Individual Industrial < 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 300 MGM</li> <li>Max Month Allocation &gt; 300 MGM</li> </ul> Individual Industrial >= 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM</li> </ul> • Max Month Allocation > 30 MGM <ul> <li>Max Month Allocation &gt; 300 MGM</li> </ul> • Max Month Allocation > 300 MGM • Max Month Allocation > 300 MGM   | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500<br>\$ 2,000<br>\$ 3,650                         |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li></ul>  | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500<br>\$ 3,650<br>\$ 5,600                         |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> <li>Master Individual Permit</li> </ul> Individual Industrial < 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 300 MGM</li> </ul> Individual Industrial >= 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul> Individual Industrial >= 20 years <ul> <li>Max Month Allocation &gt; 30 MGM &lt;= 300 MGM</li> </ul> Individual Diversion/Impoundment < 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul> Individual Diversion/Impoundment < 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul> Individual Diversion/Impoundment < 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul> Individual Diversion/Impoundment < 20 years <ul> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> </ul> | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500<br>\$ 3,650<br>\$ 5,600                         |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li></ul>  | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500<br>\$ 3,650<br>\$ 5,600<br>\$ 1,400<br>\$ 2,750 |
| <ul> <li>Standard Individual Permit &lt;= 1 year</li> <li>Standard Individual Permit &gt; 1 year</li> <li>Master Individual Permit</li> <li>Individual Industrial &lt; 20 years</li> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 300 MGM</li> <li>Max Month Allocation &gt; 300 MGM</li> <li>Individual Industrial &gt;= 20 years</li> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 300 MGM</li> <li>Max Month Allocation &gt; 300 MGM</li> <li>Individual Diversion/Impoundment &lt; 20 years</li> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 15 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 30 MGM</li> <li>Max Month Allocation &gt; 30 MGM &lt;= 30 MGM</li> </ul>   | \$ 1,800<br>\$ 4,000<br>\$ 1,400<br>\$ 2,750<br>\$ 3,500<br>\$ 3,650<br>\$ 5,600<br>\$ 1,400<br>\$ 2,750 |



| 1.3.2 Ri                     | ght-of-Way Pern  | nit Fee Schedul   | e  |  |  |  |
|------------------------------|--|---|--|--|--|--|
| Right-of-Way<br>Permit Types |  |   | Notes  |  |  |  |
| Access Gate                  | \$610.00 each  | Not Applicable  | Access gates must be fabricated and installed according to LWDD approved plans and specifications.  If the applicant requests, LWDD will supply the access gate and bollards, after the fee below is paid by the Applicant and the permit is issued.  Access Gate (including bollards) \$2125.00 each The fees shown above for LWDD to supply the access gate and bollards includes all fees for LWDD to fabricate, deliver to the job site, and install the access gate and bollards as permitted. LWDD will not fabricate, deliver to the job site, or install any chain link fence material, even if permitted.  Refer to Subsection 2.2.1 - Access Gate. |  |  |  |
| Bridge                       | \$0.25 per S.F. of<br>bridge surface<br>(min. \$300.00)  | \$0.40 per S.F. of<br>bridge surface<br>(min. \$450.00)   | Bridge surface includes the entire length of the bridge (including the length of approach slabs) multiplied by the entire bridge width.  Refer to Subsection 2.2.2 - Bridge.   |  |  |  |
| Bulkheads                    | \$10.00 per L.F. of<br>bulkhead within<br>canal right-of-way<br>(min. \$500.00)  | \$15.00 per L.F. of<br>bulkhead within<br>canal right-of-way<br>(min. \$750.00)                                 | Refer to Subsection 2.2.3 - <u>Bulkheads</u> .   |  |  |  |
| Canal<br>Rehabilitation      | \$20.00 per L.F. of<br>canal frontage<br>(min.\$4000.00)   | Not Applicable  | Refer to Subsection 1.8 - Conditional Required Work within Canal Right-of-Way.   |  |  |  |
| Culvert Crossing             | \$9.00 per L.F. of culvert within canal right-of-way (min. \$300.00) \$14.00 per L.F. of culvert within canal right-of-way (min. \$450.00) |   | Culverts 200 feet or longer (as measured along the channel) are considered to be piping of a LWDD canal and will require Board approval.  Refer to Subsections 2.2.9 - Piping of Canal and 2.2.4 - Culvert Crossing.   |  |  |  |
| Docks, Davits, & Bo          |  |   |  |  |  |  |
| Docks                        | \$2.00 per S.F. of<br>dock surface<br>within canal right-<br>of-way<br>(min. \$300.00)   | \$5.00 per S.F. of<br>dock surface<br>within canal right-<br>of-way<br>(min. \$450.00)                          | Dock permit application fees and one-time right-of-<br>way usage or occupancy fees include fees to permit<br>required erosion control such as a bulkhead or rock<br>rubble riprap.<br>Refer to Subsection 2.2.5 - Docks, Davits & Boatlifts.   |  |  |  |
| Davits                       | \$300.00 per davit<br>lift arm within<br>canal right-of-way  | \$450.00 per davit<br>lift arm within<br>canal right-of-way   | Davit permit application fees and one-time right-of-way usage or occupancy fees include fees to permit required erosion control such as a bulkhead or rock rubble riprap.  Refer to Subsection 2.2.5 - Docks, Davits & Boatlifts.  |  |  |  |
| Boatlifts                    | \$2.00 per S.F. of<br>boat lift platform<br>horizontal area<br>within canal right-<br>of-way<br>(min. \$300.00)                            | \$5.00 per S.F. of<br>boat lift platform<br>horizontal area<br>within canal right-<br>of-way<br>(min. \$450.00) | Boat lift permit application fees and one-time right-of-way usage or occupancy fees include fees to permit required erosion control such as a bulkhead or rock rubble riprap.  Refer to Subsection 2.2.5 - Docks, Davits & Boatlifts.  |  |  |  |

58' Bridge Width x 100LF = 5,800 sq. ft. of bridge deck Bridge permit fee = (\$0.25+\$0.40) x 5,800 sq.ft. = \$3,770.00



| Right-of-Way Permit Permit Types Application Fe |  | One-Time Right-<br>of-Way Usage or<br>Occupancy Fee   | Notes  |
|---|--|---|--|
| Drainage<br>Connection.                         | \$500.00 per<br>application  | \$750.00 each   | A drainage outfall connection is defined as that facility conveying stormwater from the internal stormwater management system to the LWDD canal beginning at and including the internal stormwater management system's discharge control structure and ending at the outfall within LWDD right-of-way. The drainage outfall connection facility includes but may not be limited to stormwater discharge control structures, swales, ditches, pipes, manholes, catchbasins, endwalls, canal berms, canal channel side slopes, |
|   |  |   | and revetment for channel side slope stabilization.  Refer to Subsection 2.2.6 – <u>Drainage Connection</u> .  |
| Irrigation<br>Connection                        | \$6.50 per L.F. of irrigation connection pipe and intake equipment within canal right-of-way (min. \$300.00) | \$10.00 per L.F. of irrigation connection pipe and intake equipment within canal right-of-way (min. \$400.00) | Refer to Subsection 2.2.7 - Irrigation Connection.   |
| Monitoring Well                                 | \$580.00 each  | \$870.00 each<br>(Not Applicable<br>for U.S.G.S.<br>Wells)  | Refer to Subsection 2.2.8 - Monitoring Well.   |
|   |  |   | LWDD will not consider approval to pipe a canal unless the applicant demonstrates a substantial hardship and provides reasonable assurances that drainage works and maintenance functions will not be harmed. All requests to pipe a LWDD canal require approval by the Board of Supervisors.  |
| Piping of Canal                                 | \$9.00 per L.F. of<br>piping<br>(min. \$1,800.00)  | \$20.00 per L.F. of<br>piping<br>(min. \$4,000.00)  | Any pipe (culvert) 200 L.F. or longer installed parallel to, and within the channel of a LWDD canal shall pay an annual re-occurring right-of-way usage, or occupancy, fee of \$4.00 per L.F. for piping the LWDD canal channel. This annual re-occurring right-of-way usage, or occupancy, fee will be adjusted every five (5) years in accordance with the compounded Consumer Price Index (CPI).  |
|   |  |   | Any pipe less than 200 L.F. is considered a culvert crossing and will a subject to the appropriate culvert crossing fees.  Refer to Subsection 2.2.9 - Piping of Canal.  |
| Signe   | \$610.00 each  | \$915.00 each   | Refer to Subsection 2.2.10 - Signs.  |
| Signs Temporary Access                          | \$670.00 each  | Not Applicable  | Requests for an extension of temporary access will be considered a permit extension and permittees will be charged accordingly.  Refer to Subsections 1.3.3 - General Permit Fees and 2.2.11 - Temporary Access.   |

\$1,250



# HSQ GROUP, LLC

# **Engineers • Planners • Surveyors**

1001 Yamato Road, Suite 105 Boca Raton, Florida 33431 (561) 392-0221 Phone • (561) 392-6458 Fax

6/27/2022 Rev. 9/7/2022 Rev. 4/20/2023 Rev. 8/23/2023 Rev. 9/6/2023

# BARWICK ROAD BRIDGE OVER L-30 CANAL REPLACEMENT (BRIDGE #934455) PALM BEACH COUNTY PROJECT # 2022801

# **Land Survey Scope of Services**

# PROJECT LIMITS

Barwick Road, 25 feet outside the Right-of-Way, from 225 feet north of the center of the L-30 Canal to 225' south of the center of the canal. L-30 Canal, 25' outside of the canal Right-of-Way, 125 feet west of Barwick Road to 125' east of the center of Barwick Road.

# **SCOPE OF SERVICES**

The Boundary and Topographic Survey will be done in accordance with the standards of practice set forth by the Florida Board of Professional Surveyors and Mappers in rule 5j-17.050-.052, of the Florida Administrative Code pursuant to chapter 472.027, Florida Statutes, the 2019 Palm Beach County Thoroughfare Road Design Procedures and the current State of Florida Standards of Practice.

- 1. Review Palm Beach County Title Report Documents to establish Right-of-Way and Baseline. Prepare a drawing showing the Baseline, Right-of-Way linework, corridor width, and recording information of the roadway and easements. No evidence of an historic baseline or Right-of-Way Maps were found.
- 2. Collect horizontal global positioning control monumentation and set control points tied to Florida East Zone State Plane Coordinates (NAD 83, 1990 adjustment).
- 3. Collect published vertical benchmarks, run a closed level loop, and set benchmarks outside the limits of construction (NAVD 1988 datum).
- 4. Locate subdivision corners, and lot corners (if needed) to establish the relative position.
- 5. Obtain existing spot elevations of roadway Right-of-Way, pavement, bridge deck, walks, canal bottom and embankments at high and low break points with intervals not to exceed 100-foot intervals.
- 6. Locate above ground features adjoining the roadway. Including pavement, utilities, walks, driveway, other amenities, and fences with elevations. Locate the bridge deck and abutment for informational purposes only. This bridge is to be replaced, (not retrofitted).
- 7. Obtain six cross sections of the canal, at bridge face, at 75 feet beyond the center of bridge and at 125 feet beyond the center of bridge.
- 8. Locate trees lying in the right-of-way within the scope limits, with diameter size and common type.
- 9. Obtain rim elevation, inverts and bottom of drainage structures and outfalls within the right of way with pipe sizes and materials.
- 10. Monument and reference the baseline.
- 11. Prepare a Boundary and Topographic Survey, including the Project Network Control and the Reference Point on 11" x 17" size sheets, digitally signed in "PDF" format for County submittal.
- 12. Prepare AutoCAD file reflecting the Topography, Baseline, Right-of-Way, easements and parcel lines.
- 13. Prepare a 3-dimensional digital terrain model in XML format.

# **SURVEY DELIVERABLES**

- 1- Boundary and Topographic Survey with Project Network Control (PNC) and Reference Points on (11"x17" sheet, 1"=40' scale) drawing.
- 2- The SURVRD01 file in AutoCAD cad format.
- 3- Digital Terrain Model in XML format.
- 4- L.W.D.D. Deliverable of Canal Cross Sections

# **Estimate of Work Effort and Cost**

Name of Project: Barwick Road Bridge over L-30 Canal Replacement (Bridge #934455)

PBC Project Number: 2022801

Exhibit B: Page 20 of 28 Consultant Name: HSQ GROUP, LLC

Date: 9/6/2023

|                                    |                      |                               | Staff (                | Categories         |                     |                            |                            |                          |
|------------------------------------|----------------------|-------------------------------|------------------------|--------------------|---------------------|----------------------------|----------------------------|--------------------------|
| Task Description                   | Total Staff<br>Hours | Senior Surveyor<br>and Mapper | Surveyor and<br>Mapper | CADD<br>Technician | 2 Man Field<br>Crew | Staff Hours By<br>Activity | Salary Cost By<br>Activity | Average Rate<br>Per Task |
|                                    |                      | \$60.00                       | \$50.00                | \$31.00            | \$54.00             |                            |                            |                          |
| BASIC SERVICES                     |                      |                               |                        |                    |                     |                            |                            |                          |
| 14 Survey - Field                  | 51.0                 |                               |                        |                    | 51.0                | 51.0                       | \$2,754.00                 | \$ 54.00                 |
| 15 Survey Plans                    | 90.0                 | 3.0                           | 27.0                   | 60.0               |                     | 90.0                       | \$3,390.00                 | \$ 37.67                 |
| Total Staff Hours (Basic Services) | 141.0                | 3.0                           | 27.0                   | 60.0               | 51.0                | 141.0                      |                            | 0 42.55                  |
| Total Staff Cost (Basic Services)  |                      | \$180.00                      | \$1,350.00             | \$1,860.00         | \$2,754.00          |                            | \$6,144.00                 | \$ 43.57                 |

| Basic Services:       |             |
|-----------------------|-------------|
| Salary Related Costs: | \$6,144.00  |
| Contract Multiplier   | 2.79        |
| Basic Services Total: | \$17,141.76 |

**Grand Total Estimated Fees:** \$17,141.76

|             | <del></del>                          | vey - Field |                |                 |             |   |
|-------------|--------------------------------------|-------------|----------------|-----------------|-------------|---|
| Task<br>No. | Task                                 | Units       | No of<br>Units | Hours/Unit      | Total Hours | Comments  |
|             | Horizontal Project Control (HPC)     |             | 00             | I               | L           |   |
|             | 2-Lane Roadway                       | LF          | 700            | 0.0086          | 6           | Recover and locate PBC GPS control points, set control points       |
|             | Multi-lane Roadway                   | LF          | 0              | 0               | 0           |   |
| 14.2        | Vertical PC / Bench Line             |             |                |                 | L           |   |
|             | 2-Lane Roadway                       | LF          | 700            | 0.0057          | 4           | Recover PBC Benchmarks and perform differential leveling on control |
|             | Multi-lane Roadway                   | LF          | 0              | 0               | 0           |   |
| 14.3        | Reference Points                     |             |                |                 |             |   |
|             | 2-Lane Roadway                       | EA          | 700            | 0.0043          | 3           | Set 3 reference points for each baseline point                      |
|             | Multi-lane Roadway                   | EA          | 0              | 0               | 0           |   |
| 14.4        | Baseline Layout                      | LF          | 700            | 0.0014          | 8           | Set points on baseline begin, & end PI                              |
| 14.5        | Section, Subdivision & Property Ties | EA          | 6              | 1               | 6           | Recover right-of-way and boundary corners                           |
| 14.6        | Topography/DTM (3D)                  | LF          | 700            | 0.0114          | 8           | Locate features with elevations                                     |
| 14.7        | Cross Sections                       | EA          | 700            | 0.0114          | 8           | Obtain spot elevations @ 100' intervals                             |
| 14.8        | Side Street Surveys                  | LF          | 0              | 0               | 0           | ·   |
| 14.9        | SUE                                  | EA          | 0              | 0               | 0           | Optional Services (Upland/Submerged?)                               |
| 14.10       | Locates - Pothole                    | EA          | 0              | 0               | 0           |   |
| 14.11       | Outfall Survey                       | LF          | 0              | 0               | 0           |   |
| 14.12       | Drainage Survey                      | EA          | 2              | 1               | 2           | Obtain rim and invert elevations with pipe details in structures    |
| 14.13       | Bridge Survey                        | EA          | 0              | 0               | 0           | Major or Minor?   |
| 14.14       | Canel Survey                         | LF          | 250            | 0.016           | 4           | 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           | (Detail - MHWL?)  |
| 14.18       | Tree Survey                          | LS          | 1              | 2               | 2           | 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       | 7 Meetings                           | EA          | 0              | 0               | 0           | (LIST)  |
|             |                                      |             | 14. Surv       | ey - Field Tota | 51          |   |

|             | Project Activity 15: Survey Plans          |         |           |                         |                |   |  |  |  |
|-------------|--|---------|-----------|-------------------------|----------------|---|--|--|--|
| Task<br>No. | Tack   Inite   """                         |         |           | Hours/ Unit<br>or Sheet | Total<br>Hours | Comments  |  |  |  |
| 15.1        | Alignment                                  | М       | 0.1       | 30                      | 3              | Establishment of the alignment  |  |  |  |
| 15.2        | Section and 1/4 Section Lines              | Section | 1         | 1                       | 1              | analyze found monuments and record data calculate ties                        |  |  |  |
| 15.3        | Subdivisions / Property Lines              | EA      | 1         | 1                       | 1              | analyze found monuments and record data calculate alignment                   |  |  |  |
| 15.4        | Existing R/W                               | LF      | 1         | 1                       | 1              | Review Right-of-Way   |  |  |  |
| 15.5        | Topography                                 | LF      | 1         | 6                       | 6              | locate trees, drainage, draw elevations at cross sections and high low points |  |  |  |
| 15.6        | Parent Tract Properties/Existing Easements | EA      | 0         | 0                       | 0              | N/A   |  |  |  |
| 15.7        | Title Review                               | LS      | 1         | 10                      | 10             | Review Title package from PBC Prepare base map                                |  |  |  |
| 15.8        | Jurisdictional/Agency Lines                | LF      | 0         | 0                       | 0              | N/A   |  |  |  |
| 15.9        | Survey Key Sheet                           | Sheet   | 1         | 2                       | 2              | prepare cover, notes,   |  |  |  |
| 15.10       | Survey Detail & Legend Sheet               | Sheet   | 1         | 4                       | 4              |   |  |  |  |
| 15.11       | Reference Point Sheet                      | Sheet   | 1         | 12                      | 12             | calculate points and grid ground ties prepare drawing                         |  |  |  |
| 15.12       | Project Control Sheet                      | Sheet   | 1         | 10                      | 10             | review bench run, gps control, calculate grid ground ties, prepare drawing    |  |  |  |
| 15.13       | Specific Purpose & Topographic Survey      | Sheet   | 4         | 10                      | 40             | Prepare cad file, DTM, Draw sheets and review                                 |  |  |  |
| 15.14       | Boundary Survey                            | EA      | 0         | 0                       | 0              | N/A   |  |  |  |
| 15.15       | Technical Meetings                         | EA      | 0         | 0                       | 0              | / N/A   |  |  |  |
| -           |  | -       | 15. Surve | Plans Total             | 90 🗸           |   |  |  |  |





May 3, 2023

Alan Gerwig & Associates

12798 W. Forest Hill Blvd, Suite 201 Wellington, FL 33414

Attention:

Mr. Alan Gerwig, PE, LEED AP

President

Re:

Scope of Services for Geotechnical Engineering Services

Barwick Road Bridge Replacement
Barwick Road over LWDD L-30 Canal
Boynton Beach, Palm Beach County, Florida
PACIFICA Proposal No.: 610-12015232

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 the scope of services.

This project includes the design and construction of a bridge replacement at Barwick Road.

The current plan is to replace the existing bridge with a new two-lane bridge with a span length of 66 ft. The bridge is to be supported on concrete driven piles. Loads on the piles are not known at this time. We expect site grading to be minimal with no significant fills in the bridge approach areas.

### **GEOTECHNICAL SCOPE OF SERVICES**

PACIFICA proposes to perform the following geotechnical field services:

> Perform two (2) Standard Penetration Test (SPT) borings, one at each end bent 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.

# 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
- 3. Results of the FDOT corrosion series testing and laboratory test results.
- 4. The existence of organic soil5. Foundation Axial Capacities The existence of organic soils or any other soil conditions.
- 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.



| DESCRIPTION  | UNIT                          | # OF<br>UNITS | UNIT RATE | <u>TOTAL</u> |  |  |  |  |
|--|-------------------------------|---------------|-----------|--------------|--|--|--|--|
| . FIELD EXPLORATIONS   |                               |               |           |              |  |  |  |  |
| Mobilization of Drill Equipment (50-mile travel)   | each                          | 1.0           | \$420.00  | \$420.00     |  |  |  |  |
| Standard Penetration Tests - Truck Rig (0' - 50')  | feet                          | 100.0         | \$16.00   | \$1,600.00   |  |  |  |  |
| Standard Penetration Tests - Truck Rig (51' - 100')  | feet                          | 100.0         | \$19.00   | \$1,900.00   |  |  |  |  |
| Grout Bore Hole (0 to 50 Feet)   | feet                          | 100.0         | \$6.40    | \$640.00     |  |  |  |  |
| Grout Bore Hole (51 to 100 Feet)   | feet                          | 100.0         | \$7.50    | \$750.00     |  |  |  |  |
| Casing (0 to 50 Feet)  | feet                          | 100.0         | \$9.80    | \$980.00     |  |  |  |  |
| Casing (51 to 100 Feet)  | feet                          | 100.0         | \$10.00   | \$1,000.00   |  |  |  |  |
| Engineering Technician (Site Reconnaissance, Boring Layout and Underground Utility Clearance) (Raw Rate: \$31*3) | hour                          | 8.0           | \$93.00   | \$744.00     |  |  |  |  |
| Engineering Technician (Drilling oversite) (Raw Rate: \$31*3)  | hour                          | 16.0          | \$93.00   | \$1,488.00   |  |  |  |  |
| II. SOIL & AGGREGATETESTING  |                               |               |           |              |  |  |  |  |
| 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                          | 4.0           | \$20.00   | \$80.00      |  |  |  |  |
| Grain size determination: Full grain size (8 sieves)   | each                          | 2.0           | \$78.00   | \$156.00     |  |  |  |  |
| Engineer P.E. (Raw Rate: \$49.05*3)  | hour                          | 2.0           | \$147.15  | \$294.30     |  |  |  |  |
| III. ENGINEERING SERVICES (MULTIPLIER: 3.0)  |                               | <u> </u>      |           |              |  |  |  |  |
| Principal Engineer, P.E. (Raw Rate: \$84.10*3)   | hour                          | 3.0           | \$252.30  | \$756.90     |  |  |  |  |
| Senior Engineer (Raw Rate: \$69.30*3)  | hour                          | 12.0          | \$207.90  | \$2,494.80   |  |  |  |  |
| Engineer P.E. (Raw Rate: \$49.05*3)  | hour                          | 24.0          | \$147.15  | \$3,531.60   |  |  |  |  |
| Drafter / CADD (Raw Rate: \$31.35*3)   | hour                          | 3.0           | \$94.05   | \$282.15     |  |  |  |  |
| TOTAL BASIC SERVICES   | TOTAL BASIC SERVICES \$17,432 |               |           |              |  |  |  |  |



September 1, 2023

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: Barwick Rd Bridge; Environmental Permitting 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 - 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 surface water impacts, a compensatory mitigation plan if applicable, habitat scoring, and coordination with agencies regarding listed species issues. This will include coordination with Federal commenting agencies such as EPA and USFWS, 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.

2581 METROCENTRE BLVD, SUITE 1 • WEST PALM BEACH, FL 33407 • 561-291-7950 PHONE WWW.EWCONSULTANTS.COM

# Task 2 - 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.

# FEES AND BILLING

We will provide the services described in Tasks 1 and 2 in accordance with the fee schedule table provided below. All direct expenses are billed at cost, and are included in the task fee amounts.

| Task | Description   | Fee Amount  |
|------|---|-------------|
|      |   |             |
| 1.   | <b>Environmental Resource Permitting Assistance</b> | \$11,850.00 |
| 2.   | Team and Submittal Meetings                         | \$ 3,590.00 |

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** 

|  | Senio     |       |            | Environmental |            |         | TOTAL       |             |
|--|-----------|-------|------------|---------------|------------|---------|-------------|-------------|
| TASK   | Scientist |       | Manager    | Scientist     | Technician | EXPENSE | SALARY COST | TOTAL HOURS |
|  | \$ 4      | 1.67  | \$ 33.33   | \$28.33       | \$28.33    |         |             |             |
| TASK 1. ENVIRONMENTAL RESOURCE PERMITTING ASSISTANCE                 | L         |       |            |               |            |         |             |             |
| Application preparation, team and agency coordination, RAI resspones |           | 6     | 60         | 40            | 20         |         | \$ 3,949.62 | 126         |
| SUBTOTAL TASK 1  |           | 6     | 60         | 40            | 20         | \$ -    | \$ 3,949.62 | 126         |
| TASK 2. TEAM AND SUBMITTAL MEETINGS                                  | 1         |       |            |               |            |         |             |             |
| Attendance at six meetings including planning and responses          |           | 0     | 24         | 12            | 2          |         | \$ 1,196.54 | 38          |
| SUBTOTAL TASK 2  |           | 0     | 24         | 12            | 2          | \$ -    | \$ 1,196.54 | 38          |
|  |           |       |            |               |            |         |             |             |
| PROJECT SUMMARY TOTAL TASKS 1-2                                      |           | 6     | 84         | 52            | 22         | 0       | \$5,146.16  | 164         |
| PROJECT FEE TOTAL TASKS 1-2  | \$2       | 50.02 | \$2,799.72 | \$1,473.16    | \$623.26   | \$0.00  | \$5,146.16  |             |

\*3.0 Contract Multiplier = \$ 15,438.48 TOTAL FEE

| Barwick Ro  | d Bridge over LWD  | OEBO SOD Lat.                 |               |  |                    |                  | CVLIIDIT                  | C Dogo 1    | o f E        |  |
|---|--|-------------------------------|---------------|--|--------------------|------------------|---------------------------|-------------|--------------|--|
| SOLICITATION/PROJECT/BID NAME: 30 Canal (   | 934455)  |                               | S             | OLICITATION                                    | PROJECT/BIE        | NO.: 2022        | 801 EXHIBIT               | C Page 1 c  | л 5<br>————  |  |
| SOLICITATION OPENING/SUBMITTAL DATE: June 14, 2022  |  |                               |               | county department: Roadway Production Division |                    |                  |                           |             |              |  |
| Section A PLEASE LIST THE DOLLAR AM   | IOUNT OR PERCENTAGE  | OF WORK TO                    | ВЕ СОМР       | PLETED BY TH                                   | E <u>PRIME CON</u> | TRACTOR/CO       | <u>ONSULTANT*</u> ON      | THE PROJE   | CT:          |  |
| NAME OF PRIME RESPONDENT/BIDDER: Alan   | Gerwig & Asso  | ociates,                      | Inc.          | _ ADD  | RESS: 12798        | W. Forest        | Hill Blvd., #201          | , Wellingto | n, FL 33414  |  |
| CONTACT PERSON: Alan Gerwig   |  |                               | PHONE N       | ıo.: <sup>561-79</sup>                         | 2-9000             | E-MA             | <sub>.IL:</sub> agerwig@a | aga-engir   | neering.cor  |  |
| PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF W *SMWBE Prime's must include their percentage or dollar  Section B  PLEASE LIST THE DOLLAR AM | ORK: \$215,873.0 amount in the Total Partici                 | )O<br>pation line und         | der section E | Non-SB   | Е МВЕ              | WBE S            | SBE<br>V                  |             |              |  |
| Subcontractor/Sub consultant Name   | (Check all Applicab<br><u>MBE</u><br><u>Non-SBE</u> Minority | ole Categories)<br><u>WBE</u> |               |  | ,                  |                  | PERCENTAGE  Caucasian     |             |              |  |
| 1. HSQ Group, LLC   | Business   |                               | susiness      |  |                    |                  | \$ <u>17,141.</u> 76      |             |              |  |
| Pacifica Engineering Services, LLC  |  |                               | <u> </u>      | 17,432.75                                      |                    |                  |                           |             |              |  |
| EW Consultants, Inc.  |  |                               | ~             |  |                    |                  | \$15,438.48               |             |              |  |
| 4.  |  |                               |               |  |                    |                  |                           |             |              |  |
| 5.  |  |                               |               |  | ,                  |                  |                           |             |              |  |
| (Please use additional sheets if necessary)   |  |                               | Total         |  |                    |                  |                           |             | <del>-</del> |  |
| Total Bid/Offer Price \$ 265,885.99   |  |                               |               | Total  | Certified S/M/V    | WBE Participatio | 265,885.99                | <del></del> |              |  |
| I hereby certify that the above information is accurate to the l  | est of my knowledge: Alan                                    | Gerwig /                      | / /           |  |                    |                  | Pı                        | residen     | ıt           |  |
| 22.22, 22.10, san the above mornanda is accurate to the   | or any amovitouse.   | Man                           | ne & Authori  | zed Signature                                  |                    |                  |                           |             | Title        |  |

1. 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.

2. 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.

3. Modification of this form is not permitted and will be rejected upon submittal.

Note:

### **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.

10/19/2023

EXHIBIT C Page 2 of 5

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: 2022801 SOLICITATION/PROJECT NAME: Barwick Rd Bridge over LWDD Lat. 30 Canal (934455) Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: N/A (Check box(s) that apply) Date of Palm Beach County Certification (if applicable): ☑SBE ☐WBE ☐MBE ☐M/WBE ☐Non-S/M/WBE The undersigned affirms they are the following (select one from each column **if applicable**): Column 2 Column 3 ☑Male ☐ Female ☐ African-American/Black ☐ Asian American ☐ Caucasian American □ Supplier ☐ Hispanic American ■Native American <u>S/M/WBE PARTICIPATION</u> – <u>S/M/WBE Primes must document all work to be performed by their own work force on this form</u>. 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. Unit Price Line Item Description Quantity/ Contingencies/ Total Price/Percentage Item Units **Allowances** \$215,873.00 1 Structural Engineering Services 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: \$215,873.00 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. Price or Percentage: \_ Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant N/A Alan Gerwig & Associates, Inc. Print Name of Subcontractor/subconsultant Authorized Signature Authorized Signature Alan Gerwig Print Name Print Name President Title

# **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

EXHIBIT C Page 3 of 5

| Subcontra<br>the bid/p   | actors/subconsultants, must properly execute this doc roposal.   | ument. Each                      | properly exe                       | cuted Schedule 2 m   | nust be submitted with    |
|--------------------------|--|----------------------------------|------------------------------------|--|---------------------------|
| SOLICITA                 | TION/PROJECT NUMBER: 2022801   |                                  |                                    |  |                           |
| SOLICITA                 | TION/PROJECT NAME: Barwick Rd Bridge ov  | er LWD                           | D Lat. 30                          | Canal (9344  | 55)                       |
| Prime Co                 | ntractor: Alan Gerwig & Associates,  | Inc. Subco                       | ontractor: HS                      | SQ Group,  | LLC                       |
| (Check be<br>☑SBE        | ox(s) that apply)<br>☐ WBE  ☐ MBE  ☐ M/WBE  ☐ Non-S/M/WBE   Da   | ate of Palm B                    | each County C                      | ertification (if appli                                     | cable):                   |
| The unde                 | ersigned affirms they are the following (select one from<br><u>Column 2</u>  | each column                      | if applicable)                     | •  | Column 3                  |
| ☑Male [                  |  | Asian Amerio<br>Native Amer      |                                    | sian American  | ☐ Supplier                |
| properly e<br>to be perf | PARTICIPATION – S/M/WBE Primes must document all work executed Schedule 2 for any S/M/WBE participation may result or med or items supplied with the dollar amount and/or percent S/M/WBE is certified. A detailed proposal may be attached the supplied with the dollar amount and supplied to the supplied with the dollar amount and/or percent supplied with the dollar amount and supplied to the supplied with the supplied with the dollar amount and supplied to the supplied with the s | It in that particentage for each | ipation not beir<br>work item. S/I | ng counted. Specify ir<br>M/WBE credit will onl            | detail, the scope of work |
| Line<br>Item             | Item Description   | Unit Price                       | Quantity/<br>Units                 | Contingencies/<br>Allowances                               | Total Price/Percentage    |
| 1                        | Surveying Services   | 1                                | 1                                  | 0  | \$17,141.76               |
|                          |  |                                  |                                    |  |                           |
|                          |  |                                  |                                    |  |                           |
|                          |  |                                  |                                    |  |                           |
|                          |  | <u> </u>                         |                                    |  |                           |
|                          | rsigned Subcontractor/subconsultant is prepared to self-perfo<br>owing total price or percentage: \$17,141.76  | rm the above-                    | described work                     | in conjunction with th                                     | e aforementioned project  |
| If the und               | ersigned intends to subcontract any portion of this work to a<br>elow accompanied by a separate properly executed Schedul  |                                  | ntractor/subco                     | nsultant, please list t                                    | he business name and the  |
|                          | I/A ame of 2 <sup>nd</sup> /3 <sup>rd</sup> tier Subcontractor/subconsultant   | Price o                          | or Percentage: _                   |  |                           |
|                          | Alan Gerwig & Associates, Inc.  Print Name of Prime  By:  Authorized Signature  Alan Gerwig  Print Name  President  Title  | Print Nou<br>Print<br>Ma         | r Shehade<br>Name<br>Inaging       | tractor/subconsultan<br>uthorized Signature<br>h<br>Member | t                         |
|                          | Date: 10/19/2023   | Date:                            | October                            | 18, 2023   |                           |

# **OEBO LETTER OF INTENT – SCHEDULE 2**

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for

| SOLICITATION/PROJECT NAME: Barwick Rd Bridge over LWDD Lat. 30 Canal (934455)  Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: Pacifica Engineering Services, LLC (Check box(s) that apph)  SSE WE E ZMBE ZMBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable):  Column 1  Column 2  Zolumn 3  Zolumn  | both par                  | and should be treated as such. The Schedule 2 shall ries recognize this Schedule as a binding docu actors/subconsultants, must properly execute this doc roposal. | ment. All                               | Subcontracto                        | rs/subconsultants,   | including any tiered      |  |  |  |  |
|--|---------------------------|---|---|-------------------------------------|--|---------------------------|--|--|--|--|
| Prime Contractor:   Alan Gerwig & Associates, Inc.   Subcontractor:   Pacifica Engineering Services, LLC   | SOLICITA                  | TION/PROJECT NUMBER: 2022801  |   |                                     | the second of th |                           |  |  |  |  |
| 1026/2021 - 1026   | SOLICITA                  | TION/PROJECT NAME: Barwick Rd Bridge ov   | ver LWD                                 | D Lat. 30                           | Canal (9344  | 55)                       |  |  |  |  |
| 1026/2021 - 1026   | Prime Co                  | ntractor: Alan Gerwig & Associates,   | Inc. Subco                              | ontractor:                          | cifica Engineerir  | ng Services, LLC          |  |  |  |  |
| Column 2  ☐ African-American/Black ☐ Asian American ☐ Caucasian American ☐ Supplier ☐ Hispanic American ☐ Native American ☐ Caucasian American ☐ Supplier ☐ Hispanic American ☐ Native American ☐ Caucasian American ☐ Sym/WBE PARTICIPATION — 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.  ☐ Item ☐ Item Description ☐ Unit Price ☐ Quantity/☐ Contingencies/☐ Allowances ☐ Total Price/Percentage Intends to Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$17,432.75 ☐ 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.  ☐ Print Name of Partice ☐ Print Name of Partice ☐ Print Name of Subcontractor/subconsultant ☐ President ☐ President ☐ Title ☐ Titl | (Check be                 | ox(s) that apply)   |   |                                     |  | 10/25/2024 - 10/24/2024   |  |  |  |  |
| Alan Gerwig  Associates, Inc.  Print Name of 2nd/3nd ter Subcontractor/subconsultant  Alan Gerwig  Authorized Signature  Alan Gerwig  Authorized Signature  Alan Gerwig  Prissident  Title  Alan Gerwig  President  Title  Alfrican-American/Black   Associates   Name of 2nd/3nd ter Subcontractor/subconsultant    Alan Gerwig   Associates   Inc.   President   Title     Althorized Signature   Alan Gerwig   President   Title     Althorized Signature   Alan Gerwig   President   Title     Althorized Signature   Alan Gerwig   President   Title     Title     Althorized Signature   Althorized Signature   President   Title     Title     Althorized Signature   Althorized Signature   President   Title     Title     Althorized Signature   Althorized Signature   President   Title     Title     Althorized Signature   President   Title     Title     Althorized Signature   Althorized Signature   President   Title     Title     Althorized Signature   President   Title     Title     Althorized Signature   President   Title   |                           | _ ,   | each columr                             | if applicable                       | ı  | Column 3                  |  |  |  |  |
| properly executed Schedule 2 for any \$\frac{NMWBE}{NMWBE}\$ 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. \$\frac{NMWBE}{NMWBE}\$ is certified. A detailed proposal may be attached to a properly executed Schedule 2.    Line  |                           | Female ☑ African-American/Black ☐   |   |                                     | asian American   |                           |  |  |  |  |
| 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: \$17,432.75  If 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: \$17,432.75  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.  Price or Percentage:  Price or Percentage:  Print Name of 2nd/3rd tier Subcontractor/subconsultant  Print Name of Subcontractor/subconsultant  By:  Authorized Signature  Wesley Foster, P.E.  Print Name  President  Title  Title  Title  | properly e<br>to be perfe | xecuted Schedule 2 for any <u><b>S/M/WBE</b></u> participation may resu<br>ormed or items supplied with the dollar amount and/or perce                            | It in that partic<br>entage for each    | cipation not bei<br>n work item. S/ | ng counted. Specify in<br>M/WBE credit will only   | detail, the scope of work |  |  |  |  |
| 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: \$17,432.75  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.  Price or Percentage:  Price or Percentage:  Price or Percentage:  Price or Percentage:  Print Name of Prime  By:  Authorized Signature  Alan Gerwig  Print Name  President  Title  |                           | Item Description  | Unit Price                              |                                     |  | Total Price/Percentage    |  |  |  |  |
| 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.    Price or Percentage:  | 1                         | Geotechnical Engineering Services   |   |                                     |  | \$17,432.75               |  |  |  |  |
| 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.    Price or Percentage:  |                           |   |   |                                     |  |                           |  |  |  |  |
| 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.    Price or Percentage:  |                           |   |   |                                     |  |                           |  |  |  |  |
| 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.    Price or Percentage:  |                           |   |   |                                     |  |                           |  |  |  |  |
| 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.    Price or Percentage:  |                           |   |   |                                     | · · · · · · · · · · · · · · · · · · ·  |                           |  |  |  |  |
| Alan Gerwig & Associates, Inc.  Print Name of Print  Alan Gerwig  Authorized Signature  Alan Gerwig  Print Name  President  Title  Price or Percentage:  Print Name of Subcontractor/subconsultant  By:  Authorized Signature  Wesley Foster, P.E.  Print Name  President  Title  Title  |                           |   | rm the above-                           | described work                      | in conjunction with the  | aforementioned project    |  |  |  |  |
| Alan Gerwig & Associates, Inc.  Print Name of Prime  Authorized Signature  Alan Gerwig  Print Name  President  Title  Pacifica Engineering Services, LLC  Print Name of Subcontractor/subconsultant  By:  Authorized Signature  Wesley Foster, P.E.  Print Name  President  Title  Title   |                           |   |   | ntractor/subco                      | nsultant, please list th   | e business name and the   |  |  |  |  |
| Print Name of Prime  By:  Authorized Signature  Alan Gerwig  Print Name  | <br>Na                    |   |   |                                     |  |                           |  |  |  |  |
| Authorized Signature  Alan Gerwig  Print Name  President  Title  By:  Authorized Signature  Wesley Foster, P.E.  Print Name  President  Title  Title   | _                         |   |   | <del>_</del>                        |  | vices, LLC                |  |  |  |  |
| Authorized Signature Alan Gerwig  Print Name  President  Title  Authorized Signature  Wesley Foster, P.E.  Print Name  President  Title  Authorized Signature  Wesley Foster, P.E.  Print Name  President  Title   |                           | Print Name of Prime   | Print N                                 | Name of Subcon                      | tractor/subconsultant  |                           |  |  |  |  |
| Alan Gerwig  Print Name  President  Title  Wesley Foster, P.E.  Print Name  President  Title  Title  | I                         |   | Ву:                                     | A                                   | ithorized Signature  |                           |  |  |  |  |
| Print Name Print Name Print Name Print Name  Print Name  Title  Print Name  Title  |                           | - 1 /   | Wes                                     |                                     |  |                           |  |  |  |  |
| Title Title  | -                         |   | *************************************** | <del>`</del>                        |  |                           |  |  |  |  |
|  |                           | President   | Pre                                     | esident                             |  |                           |  |  |  |  |
|  |                           | Title Date: 9/22/23   |   | Septemb                             | er 21, 2023  |                           |  |  |  |  |

# **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.

EXHIBIT C Page 5 of 5

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: 2022801 SOLICITATION/PROJECT NAME: Barwick Rd Bridge over LWDD Lat. 30 Canal (934455) Prime Contractor: Alan Gerwig & Associates, Inc. Subcontractor: EW Consultants, Inc. (Check box(s) that apply) 02/16/2021 - 02/15/2024 ☑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): Column 3 Column 1 Column 2 ☑ Male ☐ Female □ Supplier ☐ African-American/Black ☐ Asian American ☐ Caucasian American ☐ Hispanic American ☐ Native American <u>S/M/WBE PARTICIPATION</u> – <u>S/M/WBE Primes must document all work to be performed by their own work force on this form</u>. 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. Unit Price Total Price/Percentage Item Description Quantity/ Contingencies/ Line Item Units **Allowances Enviromental Services** \$15,438.48 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: \$15,438.48If 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. Price or Percentage: Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant EW Consulting Alan Gerwig &/Associates, Inc. Print Name of Prin Authorized Signature **Authorized Signature** Alan Gerwig **Edward Weinberg** Print Name Print Name President President Title

# **PROJECT HISTORY**

# Barwick Road Over L-30 Canal Bridge Replacement Project #2022801 Authorization Supplement Date Approved Total Amount SBE Amount SBE % BCC Original CSA Pending \$ 265,886.99 \$ 265,886.99 100.00%

**Project Totals** \$

265,886.99

100.00%

265,886.99 \$

nsured Tasks Admin Tools

Insured

Notes

Notes

History

Deficiencies

Coverages

★ Requirements

Contract Screen

Add Edit Help

Video Tutorials

This Account created by f26 on 02/19/2020.

| Address: Status:  | Currer  | tly in Compliance.        |   |
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| oldido.   |   |                           |   |
|   |   |                           |   |
| nsured  |   |                           | _                                       |
| Business Unit(s) DBA Num  | ber Print Insured Info Print Compliance Report  |                           |   |
|   |   |                           |   |
| Account Information   |   |                           | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Account Number:   | DX0000507   |                           |   |
| Risk Type:  | Standard - Professional Services  |                           |   |
| Do Not Call:  |   | Address Updated:          |   |
| Address Information   |   |                           |   |
| . Mailing Address   |   | Physical Address          |   |
| remainded at an impartmental fields a property of the same transfer as the term |   |                           |   |
| 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   | •   | ·                         |   |
| 0.11  | Ellis de de la contraction de |                           |   |
| Contact Name:   | Elizabeth Joseph  | Misc:                     |   |
| Phone Number:   | 5617929000  | Alt Phone Number:         | on sement or a mark                     |
| Fax Number:   |   |                           |   |
| E-Mail Address:   | ejoseph@aga-engineering.com   |                           |   |
| Approval Date:  |   |                           |   |
| Rush:   | No ·  |                           |   |
| Contract on File:   | No  |                           |   |
| Certificate Received:   | No  |                           |   |
| Indemnification Agreement:  | No  |                           |   |

