

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

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<b>Meeting Date:</b>	January 7, 2020	<input checked="" type="checkbox"/>	<b>Consent</b>	<input type="checkbox"/>	<b>Regular</b>
		<input type="checkbox"/>	<b>Workshop</b>	<input type="checkbox"/>	<b>Public Hearing</b>

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**Department:** Engineering & Public Works Department  
**Submitted By:** Roadway Production Division  
**Submitted For:** Roadway Production Division

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**I. EXECUTIVE BRIEF**

**Motion and Title:** Staff recommends motion to approve: a work task order to the structural engineering annual contract (R2017-0137) dated February 7, 2017 with Stantec Consulting Services Inc. (SCSI) in the amount of \$176,714.20 for professional services for the Congress Avenue over PBC Lat. 2 Canal Bridge Replacement (Project).

**SUMMARY:** Approval of this work task order will provide the design services necessary for the project. The design will be to replace the existing bridge with a pipe culvert on Congress Avenue over the PBC Lat. 2 Canal. The solicitation for design professionals was advertised on August 7, 2016 and August 14, 2016. The annual contract was approved on February 7, 2017, prior to the effective date of the Equal Business Opportunity Ordinance and pursuant to the Small Business Enterprise (SBE) Ordinance at that time. The SBE goal for all contracts was 15%. SCSI agreed to 31% SBE participation for the contract. Their SBE participation for this work task order is 33.25%. Their cumulative SBE participation to date including this work task order is 30.3%. SCSI is a Palm Beach County (County) based company. Districts 2 and 7 (YBH)

**Background and Justification:** On February 7, 2017, the Board of County Commissioners (BCC) approved the contract (R2017-0137) with SCSI to provide structural engineering services throughout the County. The fee, as detailed in **Exhibit B** of the attached work task order, has been negotiated as just and reasonable compensation as follows:

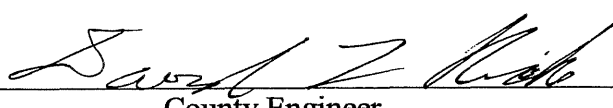
Basic Services (Lump Sum)	\$104,631.45	(Roadway Analysis and Plans, Structures – Miscellaneous, Culvert Report, Retaining Walls, Survey, Drainage Analysis and Design, Utilities, Environmental Permits, Coordination, Survey, Permitting, Signing and Pavement Marking Plans).
Reimbursable Services (Not to Exceed)	\$ 44,234.65	(Survey, Geotechnical, Legal Descriptions and Sketches, Prints)
Optional Services (Not to Exceed)	<u>\$ 27,848.10</u>	(Post Design, Survey, Bridge Phasing).
Total:	\$176,714.20	

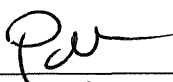
After reviewing the attached work task order for professional services and finding it in proper order, the Engineering Department recommends BCC approval.

**Attachments:**

1. Location Sketch
2. Work Task Order with Exhibits A, B and C and Certificates of Insurance (2)

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<b>Recommended by:</b>		12-2-2019
	County Engineer	Date

<b>Approved By:</b>		12/10/19
	Assistant County Administrator	Date

**II. FISCAL IMPACT ANALYSIS**

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

Fiscal Years	2020	2021	2022	2023	2024
Capital Expenditures	\$247,415	-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-
<b>NET FISCAL IMPACT</b>	<b>\$247,415</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>
# ADDITIONAL FTE POSITIONS (Cumulative)					

Is Item Included in Current Budget? Yes X No  
 Does this item include the use of federal funds? Yes No X

**Budget Account No:**  
 Fund 3500 Dept 361 Unit 1614 Object 6505  
 Fund 3950 Dept 361 Unit 1614 Object 6505 AE10

**Recommended Sources of Funds/Summary of Fiscal Impact:**  
 Transportation Improvement Fund  
 Local Government One-Cent Infrastructure Surtax Fund  
 Congress Ave. over PBC Lat.2 Canal (934251)

Basic Services	\$ 104,631.45
Reimbursables	\$ 44,234.65
Optional Services	\$ 27,848.10
Total Task Authorization	\$ 176,714.20
Staff Costs -	
Roadway Production	\$ 35,345.00
Right of Way	\$ 8,840.00
Survey	\$ 8,840.00
Traffic	\$ 17,675.00
Fiscal Impact	\$ 247,414.20

Note: Surtax Funding FY 2019 \$200,000 Congress Ave. over PBC Lat.2 Canal (934251).

**C. Departmental Fiscal Review:** Alicia Kovalainen

**III. REVIEW COMMENTS**

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

Lisa R 12/4/19  
 OFMB 12/4

Dr. S. Jantala 12/5/19  
 Contract Dev. and Control 12/5/19

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

M. J. Fleeman 12/9/19  
 Assistant County Attorney

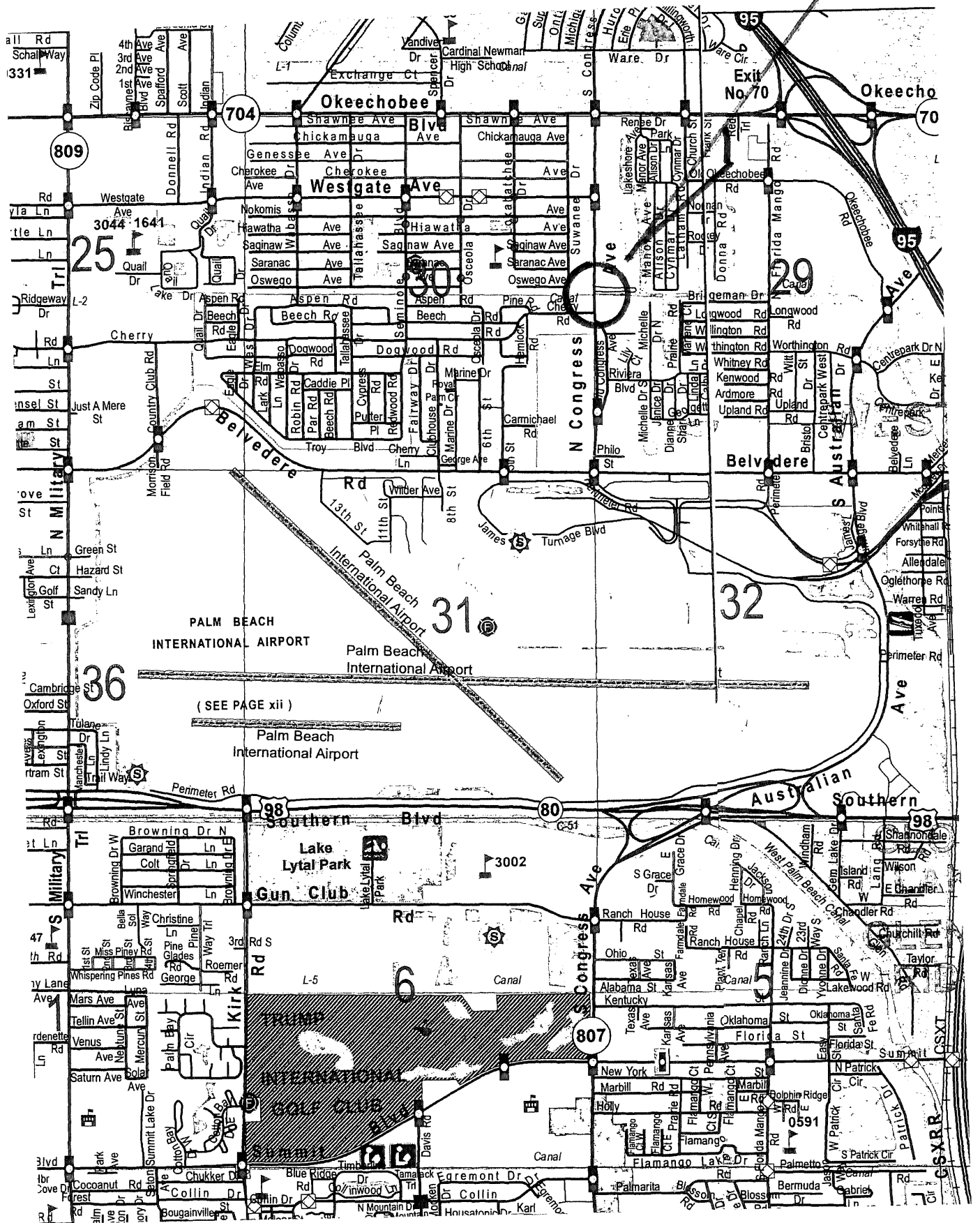
**C. Other Department Review:**

\_\_\_\_\_

Department Director

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

**Congress Avenue over PBC Lat. 2 Canal Bridge Replacement**  
**Palm Beach County Project No. 2019802**



LOCATION SKETCH

Attachment  
2

**WORK TASK ORDER TO THE  
ANNUAL STRUCTURAL ENGINEERING PROFESSIONAL SERVICES CONTRACT  
BY AND BETWEEN PALM BEACH COUNTY  
AND STANTEC CONSULTING SERVICES INC. FOR  
CONGRESS AVENUE OVER PBC LAT. 2 CANAL  
BRIDGE REPLACEMENT  
PROJECT # 2019802**

This Work Task Order to the Contract for Annual Structural Engineering Professional Services (R2017-0137), dated February 7, 2017 (ANNUAL CONTRACT), is made and entered into the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between Palm Beach County, a political subdivision of the State of Florida, by and through its Board of County Commissioners (COUNTY) and Stantec Consulting Services Inc. (CONSULTANT) (individually Party and collectively Parties).

**WITNESSETH**

WHEREAS, the COUNTY and CONSULTANT entered into the ANNUAL CONTRACT on a work task order basis on February 7, 2017 (R2017-0137) as amended on December 19, 2017 (R2017-1878), June 5, 2018 (R2018-0818), December 18, 2018 (R2018-1975), and October 22, 2019 (R2019-1592).

WHEREAS, the COUNTY intends to replace the existing bridge with a pipe culvert on **Congress Avenue over PBC Lat. 2 Canal Bridge Replacement**, Project No. **2019802** (PROJECT); and

WHEREAS, the COUNTY desires the CONSULTANT to perform design services for the PROJECT; and

WHEREAS, the CONSULTANT agrees to prepare the design plans and construction bid documents, including related documents required for the PROJECT; and

WHEREAS, the following fee has been negotiated and found to be reasonable compensation for these professional services to be performed by the CONSULTANT:

Basic Services in a lump sum fee of \$104,631.45  
Reimbursable Expenses capped at \$44,234.65  
Optional Services capped at \$27,848.10  
Totaling **\$176,714.20**

NOW, THEREFORE, THIS INDENTURE WITNESSETH: That for and in consideration of the mutual benefits to flow from each to the other, the Parties hereto agree as follows:

The above recitals are true and correct and are incorporated herein.

The following Exhibits are attached to and made a part of this Work Task Order.

**Exhibit A** - Scope of Work including Work Schedule

**Exhibit B** - Fee Schedule

**Exhibit C** – EBO Schedules 1 and 2

The COUNTY agrees to pay the CONSULTANT a fee of One Hundred Seventy-Six Thousand Seven Hundred Fourteen Dollars and Twenty Cents (\$176,714.20) for this Work Task Order.

REMAINDER OF PAGE LEFT BLANK INTENTIONALLY

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida has made and executed this Work Task Order for the PROJECT, pursuant to the ANNUAL CONTRACT, as amended, on behalf of the COUNTY, and CONSULTANT has hereunto set its hand the day and year above written.

**OWNER:**

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

BY: \_\_\_\_\_, Mayor

**S E A L**

**ATTEST:**

Sharon R. Bock, Clerk & Comptroller  
Circuit Court

BY: \_\_\_\_\_  
(Deputy Clerk)

**APPROVED AS TO TERMS AND CONDITIONS:**

BY: *Omelio A. Fernandez*  
Omelio A. Fernandez, P.E.  
Director of Roadway Production

**APPROVED AS TO FORM & LEGAL SUFFICIENCY:**

BY: \_\_\_\_\_  
Yelizaveta B. Herman,  
Assistant County Attorney

**CONSULTANT:**

**Stantec Consulting Services Inc.**

BY: *[Signature]*  
Robert T. Carballo, P.E., Vice President

**CORPORATE SEAL**



**ATTEST WITNESS:**

BY: Caroline Sanchez  
(Print Name)

*Caroline Sanchez*  
(Signature)

BY: Yisumi Montano  
(Print Name)

*[Signature]*  
(Signature)

Exhibit A: 1 of 5

*OK. OMB  
10/17/19*

*OK to proceed*

*as to  
scope & fee  
following  
revisions  
(Orig app. 11/24/19)*

*KOFarnell  
10/17/19*

**Palm Beach County  
Roadway Production Division**  
**Congress Avenue over LWDD L-2 Canal**  
**Scope and Fee Proposal**  
**For**  
**Congress Avenue Bridge  
Replacement over PBC/LWDD L-2  
Canal**

**Palm Beach County Project No. 2019802**

**Prepared By**



2056 Vista Parkway, Suite 100  
West Palm Beach, FL 33411

January 11<sup>th</sup>, 2019 Revised:  
Revised: October 9<sup>th</sup>, 2019  
Revised: October 16<sup>th</sup>, 2019



Congress avenue over LWDD L-2 canal  
Palm Beach County Project No. 2019802

October 16th, 2019

## SCOPE of SERVICES

For  
Congress Avenue over LWDD L-2 Canal  
Bridge replacement with pipe culvert  
Palm Beach County Project No. 2019802

### INTRODUCTION

Stantec Consulting Services, Inc. (Stantec) will provide professional engineering services to Palm Beach County (the County) to prepare a culvert design and plans to replace the existing bridge with a pipe culvert on Congress Avenue over the Lake Worth Drainage District (LWDD) L-2 Canal. Design, plans, and construction documents will be prepared in accordance with the following manuals:

- Palm Beach County Thoroughfare Road Design Procedures, February 2006
- "Florida Greenbook" - FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways 2016
- FDOT Design Manual, January 2018
- FDOT Design Standards Plans, 2018-19
- 2009 MUTCD with Revisions 1 and 2, May 2012

Stantec Consulting Services, Inc. and subconsultants will provide the following basic services:

- The existing bridge will be replaced with the pipe culverts.
- The existing roadway immediately adjacent to the bridge consists of a 4 lane section with sidewalk on both sides of the roadway, no bicycle lanes, curb & gutter north of the bridge and open shoulder south of the bridge. The proposed roadway typical section consists of a 5 lane urban section with 6 ft. sidewalks and 4 ft. bicycle lanes on both sides of the roadway. The proposed roadway construction will connect to the existing 5 lane section roadway located approximately 500 feet north of and south of the bridge. Project length is approximately 0.19 miles.

#### A. BASIC SERVICES SUMMARY

1. Roadway Analysis, Design, and Plans (Stantec)
2. Structures Analysis and Plans (Stantec)
3. Drainage Analysis and Plans (HSQ Group)
4. Signing and Pavement Marking Plans (Stantec)
5. Permitting (HSQ Group)
6. Utility Coordination (HSQ Group)

#### B. REIMBURSABLE EXPENSES SUMMARY

1. Reproduction (Stantec)
2. Design Survey (HSQ Group)
3. Geotechnical (Tierra of South Florida)

#### C. OPTIONAL SERVICES

1. Post Design Services
  - a) Roadway (Stantec)
  - b) Culverts (HSQ Group)





**Congress avenue over LWDD L-2 canal**  
Palm Beach County Project No. 2019802

October 16th, 2019

#### **D. DELIVERABLES**

1. Xerox copies along with all digital files for the project will be submitted to the County at the following phases:  
Master Plan, 35%, 65%, 96%, 100%, and final. Each phase will include applicable items as listed in the Palm Beach County Thoroughfare Road Design Procedures.

#### **A. BASIC SERVICES**

##### **1. Roadway Analysis Design, and Plans**

- a. Stantec will prepare the Roadway Construction Plans with aerial background in accordance with the approved Typical Section.
- b. The limit of the roadway design is from NW return of Cherry Road to the beginning of the existing full 5 lane section north of the bridge.
- c. Eliminate the guardrail by meeting the 22' offset criteria from the edge of the thru lane to the top of the proposed culvert headwall.
- d. Minimize impact to driveways and provide driveway profile where driveways are impacted.
- e. Provide southbound right to Cherry Rd. Length of right turn lane to be 280' plus 50' taper and 5' bike lane between the right and the thru lane.
- f. Construction plans will be prepared on 11" x 17" at 1"=40 scale for the horizontal and 1"=4' for the vertical. Separate plan and profile sheets will be prepared.

The anticipated roadway plans are shown in spreadsheets associated with the fee calculations. Preliminary calculations will be submitted with the 65% and 96% submittals as applicable. Construction cost estimate will be provided at 96%, 100% and final submittals. The final cost estimate will be signed and sealed and will be provided to the county in pdf as well as Excel format. Final calculations will be delivered with the 100% submittal.

##### **2. Structures Analysis Design, and Plans**

Stantec will prepare a complete set of Structures Plans for the proposed pipe(s) underneath the existing bridge in accordance with the County's Thoroughfare Road Design Procedures:

- General Notes and Bid Item Notes
- Miscellaneous Common Details
- Existing Bridge Plans
- Assemble Plan Summary Boxes and Quantities
- Permanent Retaining Wall design

##### **3. Drainage Analysis and Plans**

Stantec has secured the services of HSQ to provide Drainage Analysis and Plans, see attached scope.

##### **4. Signing and Pavement Marking Analysis and Plans**

Stantec will provide Signing and Pavement Marking Plans prepared in accordance with Palm Beach County Standards. These plans will be prepared as a separate set of documents as follows:

- Key sheet.
- General notes
- Summary of quantity sheets
- Signing and Pavement Plan sheets.



**Congress avenue over LWDD L-2 canal**

Palm Beach County Project No. 2019802

October 16th, 2019

**5. Environmental Permitting**

Stantec has secured the services of HSQ to provide Environmental Permitting services, see attached scope.

**6. Utility Coordination**

Stantec has secured the services of HSQ to provide Utility Coordinate services, see attached scope.

**B. REIMBURSABLE EXPENSES**

**1. Reproduction**

Stantec will provide 5 sets of the Plans (8.5"X11" copies of the Design Report, 11"X17" copies of the Design Plans) for the Master Plan, 65%, 96%, 100% and Final Submittal to the County for review.

**2. Design Survey/SUE**

Stantec has secured the services of HSQ Group, Inc. to provide all design survey/SUE needed for the project. See attached scope for Design Survey/SUE.

**3. Geotechnical**

Stantec will secure the services of Tierra of South Florida, Inc. to provide all Geotechnical services needed for the project. See attached scope for Geotechnical Services.

**C. OPTIONAL SERVICES**

**1. Post Design Services**

Post Design Services may include, but are not limited to meetings, construction assistance, plans revisions, shop drawing review, survey services, as-built drawings and load ratings. Post design services are not intended for instances of CONSULTANT errors and/or omissions.

The Scope does not include any dewatering details or permits and they would be obtained by the contractor based on their means and methods.

Scope does not include any temporary sheet pile walls. They will be prepared by the contractor's specialty engineer based on his means and methods.

**2. Bridge Demolition/Culvert Construction Phasing:** Following scope is included for the bridge phasing option

- Key Sheet and Index of Drawings
- Overall Bridge Final Geometry
- General Plan and Elevation
- Constructability
- Miscellaneous Details



## Congress avenue Bridge over LWDD L-2 canal County proj. no. 2019802

ID	Task Name	Duration	Start	Finish	Resource Names	19																													
						Qtr 1, 2020	Qtr 2, 2020	Qtr 3, 2020	Qtr 4, 2020	Qtr 1, 2021	Qtr 2, 2021	Qtr 3, 2021	Qtr 4, 2021	Qtr 1, 2022																					
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb			
0	<b>Congress avenue Bridge over LWDD L-2 canal</b>	462 days	Tue 12/17/19	Wed 9/22/21																															
1	<b>Notice To Proceed</b>	1 day	Tue 12/17/19	Tue 12/17/19																															
2	<b>Survey</b>	20 days	Wed 12/18/19	Tue 1/14/20																															
3	Prepare and submit the specific purpose survey & Geotech	20 days	Wed 1/22/20	Tue 2/18/20																															
4	County review of specific purpose survey, 1st Review	15 days	Thu 2/20/20	Wed 3/11/20																															
5	address county's comments on specific purpose survey, Resubmit	10 days	Thu 3/12/20	Wed 3/25/20																															
6	County review of specific purpose survey, 2nd Review	15 days	Thu 3/26/20	Wed 4/15/20																															
7	address county's comments on specific purpose survey, Resubmit	10 days	Mon 8/31/20	Fri 9/11/20																															
8	County review of specific purpose survey, 3rd Final Review	15 days	Mon 9/14/20	Fri 10/2/20																															
9	<b>Prepare and Submit Typical Section and Master Plan</b>	30 days	Thu 3/12/20	Wed 4/22/20																															
10	County review and approve Typical Section and Master Plan	15 days	Thu 4/23/20	Wed 5/13/20																															
11	<b>35% plans (roadway and bridge)</b>	60 days	Thu 5/14/20	Wed 8/5/20																															
12	Utility initial contact	20 days	Thu 5/14/20	Wed 6/10/20																															
13	QC/QA & revise plans as needed, Submit 35%	10 days	Thu 7/23/20	Wed 8/5/20																															
14	County Review	15 days	Thu 8/6/20	Wed 8/26/20																															
15	<b>65% Plans (roadway and bridge)</b>	60 days	Thu 8/27/20	Wed 11/18/20																															
16	QC/QA & revise plans as needed	10 days	Thu 11/5/20	Wed 11/18/20																															
17	County Review	15 days	Thu 11/19/20	Wed 12/9/20																															
18	Utility Potholes coordination meeting	40 days	Thu 11/19/20	Wed 1/13/21																															
19	Permitting SFWMD, LWDD	60 days	Thu 11/19/20	Wed 2/10/21																															
20	<b>96% Plans (roadway and bridge)</b>	70 days	Thu 12/10/20	Wed 3/17/21																															
21	QC/QA & revise plans as needed, Submit 96%	10 days	Thu 3/4/21	Wed 3/17/21																															
22	County Review	15 days	Thu 3/18/21	Wed 4/7/21																															
23	Utility Conflict Resolution	15 days	Mon 1/18/21	Fri 2/5/21																															
24	<b>100% Plans (roadway and bridge)</b>	55 days	Thu 4/8/21	Wed 6/23/21																															
25	QC/QA & revise plans as needed, Submit 100%	10 days	Thu 6/10/21	Wed 6/23/21																															
26	County Review	20 days	Thu 6/24/21	Wed 7/21/21																															
27	Final Utility Coordination	20 days	Thu 6/24/21	Wed 7/21/21																															
28	<b>Final Plans (roadway and bridge)</b>	45 days	Thu 7/22/21	Wed 9/22/21																															
29	QC/QA & revise plans as needed, Submit Final Plans	15 days	Thu 9/2/21	Wed 9/22/21																															

Task		Project Summary		Inactive Task		Duration-only		Finish-only	
Split		External Tasks		Inactive Milestone		Manual Summary Rollup		Progress	
Milestone		External Milestone		Inactive Summary		Manual Summary		Deadline	
Summary		Inactive Task		Manual Task		Start-only			

Days shown reflect business days.

Exhibit A: 5 of 5

**PROPOSED UNLOADED RATES AND MULTIPLIER CALCULATION - PRIME CONSULTANT**

Name of Project:  
 County:  
 County Project Number:  
 FAP No.:

Congress Avenue over PBC L-2 canal  
 Palm Beach  
 2019802  
 NA

Consultant Name: Stantec  
 Consultant No.: TBD  
 Estimator: m.soni

Staff Classification	Total Staff Hours From "SH Summary Firm"	Project Manager	Senior Engineer	Project Engineer	Engineering Intern	Designer	SH By Activity	Salary Cost By Activity	Average Rate Per Task
4. Roadway Analysis	231	23	35	55	49	69	231	\$10,452.98	\$45.25
5. Roadway Plans	100	10	15	25	20	30	100	\$4,543.85	\$45.44
9. Structures - Misc. Tasks, Dwgs, Non-Tech. (culvert)	62	6	9	15	13	19	62	\$2,795.27	\$45.09
10. Structures - Culvert Report	12	1	2	3	2	4	12	\$546.47	\$45.54
17. Structures - Retaining Walls	96	11	13	23	20	29	96	\$4,351.93	\$45.33
20. Signing & Pavement Marking Plans	34	3	5	9	7	10	34	\$1,536.51	\$45.19
<b>Total Staff Hours</b>	535	54	79	130	111	161	535		
<b>Total Staff Cost</b>		\$3,511.62	\$4,777.13	\$6,427.20	\$3,533.13	\$5,977.93		\$24,227.01	\$45.28

Check = \$24,227.01

SALARY RELATED COSTS: ✓ \$24,227.01  
 OVERHEAD: ✓ 165.03% ✓ \$39,981.83  
 OPERATING MARGIN: ✓ 12.00% ✓ \$7,705.06

Basic Services Estimated Fee (Stantec): ✓ \$71,913.90  
 Basic Services Estimated Fee (HSQ): ✓ \$32,717.55  
**BASIC SERVICES ESTIMATED FEE: ✓ \$104,631.45**

Reimbursable Services:  
 Stantec Reimbursable ✓ \$9,738.00  
 Subconsultant: HSQ Reimbursable \$0.00  
 Subconsultant: HSQ Surveying Services (Reimbursable) ✓ \$20,010.65  
 Subconsultant: Tierra (Roadway - Reimbursable) ✓ \$14,486.00  
**REIMBURSABLE SERVICES ESTIMATED FEE: ✓ \$44,234.65**

**ESTIMATED FEE SUBTOTAL: ✓ \$148,866.10**  
 Optional Services- Stantec Post Design Services (30 hrs) ✓ \$4,049.82  
 Optional Services- HSQ (Survey) ✓ \$4,000.00  
 Optional Services- HSQ (Roadway) - 15 hrs ✓ \$2,022.17

12. Structures - Bridge/Culvert Demo & Phasing ✓ 132 16 18 30 28 40 OPTIONAL SERVICES - BRIDGE PHASING ✓ \$17,776.11  
 \$1,040.48 \$1,088.46 \$1,483.20 \$891.24 \$1,485.30 | OPTIONAL SERVICES - Estimated Fee ✓ \$27,848.10  
**GRAND TOTAL ESTIMATED FEE: ✓ \$176,714.20**

Total Staff Cost: \$5,988.58  
 Overhead: 165.03%: \$9,982.95  
 Oper. Margin: 12%: \$1,904.58  
\$17,776.11

Exhibit B: 1 of 29



**Project Activity 4: Roadway Analysis**

Estimator: Stantec

Congress Avenue over PBC L-2 canal  
2019802

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	3	4	✓ 12	2 Typical Sections for Congress Ave., 1 Typical for proposed culvert
4.2	Horizontal /Vertical Master Design Files	LS	1	130	✓ 130	PGL, EOP profiles as needed, Driveways, coordination with HSQ roadway layout.
4.3	Cross Section Design Files	LS	1	30	✓ 30	
4.4	Design Report	LS	1	16	✓ 16	
4.5	Quantities	LS	1	10	✓ 10	
4.6	Cost Estimate	LS	2	8	✓ 16	2 cost estimates including, roadway, drainage
<b>Roadway Analysis Technical Subtotal</b>					<b>✓ 214</b>	
4.7	Field Reviews	LS	1	8	✓ 8	2 ppl @ 4 hrs ea
4.8	Technical Meetings	LS	1	9	✓ 9	Comment Review Meetings
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>✓ 17</b>	
<b>4. Roadway Analysis Total</b>					<b>✓ 231</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?
35/65/96/100% Comment Review Meetings	EA	3	3	✓ 9	
<b>Total Meetings</b>				<b>✓ 9</b>	

Carries to 4.17

Carries to Tab 3

**Project Activity 5: Roadway Plans**

Estimator: Stantec

Congress Avenue over PBC L-2 canal  
2019802

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	6	✓ 6	
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	8	✓ 8	
5.3	Typical Sections		EA	1	8	✓ 8	
5.4	Typical Section Details		EA	1	6	✓ 6	
5.5	General Notes/Pay Item Notes		Sheet	1	6	✓ 6	Roadway Plans General Notes
5.6	Profile Sheet		Sheet	1	18	✓ 18	
5.7	Plan Sheet		Sheet	1	18	✓ 18	
5.8	Special Profile		Sheet	2	6	✓ 12	for 6 driveways
5.9	Cross Sections		EA	6	3	✓ 18	
<b>5. Roadway Plans Total</b>						✓ 100	

**Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings**

Estimator: Mohit Soni  
Project Number:

Congress Avenue over PBC L-2 canal  
2019802

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
<b>General Drawings</b>											
9.3	General Notes and Bid Item Notes	Sheet	1	10	1	✓ 10	General Notes, Bid Item Notes, Structural Notes, Shop Drawing Notes				
9.4	Miscellaneous Common Details	Sheet	1	20	1	✓ 20	1 - Sheet, Class 5 Finish, Collar Connecting the Existing Pipe, End Wall at the west end				
9.6	Existing Bridge Plans/Standard Plans	LS	1	4		✓ 4	Incorporate FDOT Standard Plans and Existing Bridge Plans into the current bridge plans				
9.7	Assemble Plan Summary Boxes and Quantities	LS	1	8		✓ 8	Assemble quantities into Plan Summary Boxes, summarize totals and finalize forms, create index				
9.8	Cost Estimate	LS	1	0		0					
<b>Structures - Summary and Miscellaneous Tasks and Drawings Subtotal</b>					✓ 2	✓ 42					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10,12	Bridge 1/Culvert (Demolition and Const. Phasing)	144	12	0	132	0	0	0	0		
17	Retaining Walls	96								96	
<b>Structures Technical Subtotal</b>		✓ 240	✓ 12	✓ 0	✓ 132	0	0	0	0	✓ 96	0
Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments					
9.10	Field Reviews	LS	1	8	✓ 8						
9.11	Technical Meetings	LS	1	12	✓ 12	Meetings are listed below					
9.12	Quality Assurance/Quality Control	LS	%	0%	0						
9.14	Supervision	LS	%	0%	0						
<b>Structures Nontechnical Subtotal</b>					✓ 20						
9.15	Coordination	LS	1	0%	0						
<b>9. Structures - Summary and Miscellaneous Tasks and Drawings Nontechnical and Coordination Total</b>					✓ 62						

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?
Comment Review	EA	1	3	✓ 3	one meeting
Regulatory Agency	EA	2	3	✓ 6	Meeting with LWDD
Utility Companies	EA	1	3	✓ 3	Meeting with Utility Owners
<b>Subtotal Technical Meetings</b>				✓ 12	
<b>Total Meetings</b>				✓ 12	<b>Total Project Manager Meetings (carries to Tab 3)</b>

Carries to 9.11



**Project Activity 10: BDR**

Estimator: Mohit Soni  
Project Number:

Congress Avenue over PBC L-2 canal  
2019802

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	<b>General Requirement</b>						
	<b>Report Preparation</b>						
10.33	Report Preparation	LS	1	12	✓	12	Coordination & data research for existing bridge hydraulics report for feasibility of culvert.
<b>10. Structures - Culvert Report Total</b>						✓	<b>12</b>



**Project Activity 12: Structures- Culvert /Bridge Phasing**  
(OPTIONAL SERVICES)

Estimator:  
Bridge Identifier (Number or Name):

Congress Avenue over PBC L-2 canal  
2019802

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>General Layout Design and Plans</b>							
12.1	Overall Culvert Final Geometry	LS	1	20		20	Determination of final Pipe geometry including calculation of vertical and horizontal clearances based on final member sizes and locations, and final project geometry
12.2	Develop Preliminary Phasing System Details	EA Unit	1	20		20	Develop Bridge Analysis of superstructure and substructure/foundation. Demolition of the portion of the existing bridge and shift the traffic on to the remaining portion of the existing bridge). Two analysis is required for phase 1 and phase 2 to ensure that the bridge in each phase is able to carry the load
12.3	Phasing Plans and Layout Details	Sheet	1	20	1	20	Development of general plan and elevation sketch.
12.4	Existing Bridge Demolition, Bridge Span Closure Details	Sheet	1	16	1	16	Checking the constructibility of pipe with respect to the existing conditions and the data obtained in the field
12.5	Constructibility	Sheet	1	16	1	16	Checking the constructibility of pipe with respect to the existing conditions and the data obtained in the field
12.6	Additional Review Review Meetings and Layout Sketch/Miscellaneous Details	Sheet	1	40	1	40	utility hanger details, conduit details, special existing bridge demolition details, slope protection, Bridge Span closure detail with Flowable Fill, Headwall Details, Wingwall Details, Culvert Phase Construction Details.
<b>End Bent Design and Plans</b>							
<b>12. Structures - Short Span Concrete Bridge Total</b>						<b>132</b>	

**Project Activity 17: Retaining Walls**

Estimator:

Congress Avenue over PBC L-2 canal  
2019802

Representing		Print Name				Signature / Date	
Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>General Requirements</b>							
<b>Permanent Walls</b>							
17.7	Vertical Wall Geometry	Per Wall	6	4		✓ 24	Walls in front of end bent. Calculate elevations of top of wall, proposed and existing ground lines, and bottom of wall elevation. Three Walls in front of each endbent is anticipated, total of 6 walls
17.8	Semi-Standard Drawings	Sheet	2	10	2	✓ 20	3 walls per sheet X 2 sheet = 6 walls
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	2	18	2	✓ 36	3 walls per sheet X 2 sheet = 6 walls
17.10	Details	Sheet	1	16	1	✓ 16	wall detail sheet and cost estimate
<b>17. Structures - Retaining Walls Total</b>						✓ 5	✓ 96

Project Activity 20: Signing and Pavement Marking Plans

Estimator: Stantec

Congress Avenue over PBC L-2 canal  
2019802

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	4	1	✓ 4	
20.3	Tabulation of Quantities		Sheet	1	8	1	✓ 8	
20.4	General Notes/Pay Item Notes		Sheet	1	4	1	✓ 4	
20.6	Plan Sheet		Sheet	3	6	3	✓ 18	single panel sheet, includes +/- 200 ft. of coverage on Cherry Road
<b>Signing and Pavement Marking Plans Technical Subtotal</b>						✓ 6	✓ 34	
<b>20. Signing and Pavement Marking Plans Total</b>						✓ 6	✓ 34	

**ESTIMATED MISCELLANEOUS OUT-OF-POCKET EXPENSES  
REIMBURSABLE EXPENSE**

Project Description: Congress Avenue over PBC L-2 canal  
Estimator: Stantec

PBC Project No. 2019802

**Permit Fees (estimated)**

SFWMD	✓	\$1,200.00	SFWMD Permit Mod (\$1,200)
LWDD	✓	\$4,800.00	LWDD initial fee \$3,000 plus \$1,800 for 1 additional structure.
LWDD	✓	\$2,760.00	ROW for 120 LF @ \$9.00 per LF (\$1,080) plus one time useage @ \$14.00 per LF (\$1,680) = (\$2,760)
USACOE		n/a	

**PERMIT TOTALS:** ✓ **\$8,760.00**

**REPRODUCTION (estimated)**

Plan Sheets	Color 11 x 17	Copies	Xerox Copies (11"x17")	Sheets Reports	Xerox Copies (8.5"x11")	Xerox Copies (11"x17")
-------------	---------------	--------	------------------------	----------------	-------------------------	------------------------

**ROADWAY PLANS**

Permit Plans (5 sets):	75		5	✓	375	
35% -Phase I Plans(5 sets):	140		5	✓	700	
65% - Phase II Plans(5 sets):	140		5	✓	700	
96% - Phase III Plans(5 sets):	140		5	✓	700	
100% - Phase IV Plans(5 sets):	140		5	✓	700	
Final Plans(5 sets):	140		5	✓	700	
Utility Contacts(13 sets):						
S&PM Included in RDWY						
Working Copies (20%):				✓	775	

**R/W MAPPING**

30% Maps						
60% Maps						
90% Maps						
100% Maps						

**WORKING COPIES**

<b>UNIT TOTALS:</b>			30	✓	4650	
<b>UNIT COSTS:</b>			\$1.00	✓	\$0.20	
<b>TOTAL COSTS:</b>			\$30.00	✓	\$930.00	

Public Involve Handouts:

**ENG REPORTS**

Pavement Design Report						
Typical Section/Variations						
RRR Report:						
Drainage Report (8 copies)						
Comp. Book (3 copies)	40	X 3	✓	120		
Design Documentation (3 copies)	20	X 3	✓	60		

**ENVIR REPORTS**

Permit Applications (4):						
Permit Sketches ( 2):						
Contamination Report:						
Biological Assess:						
Others:						

<b>UNIT TOTALS:</b>			180	✓	0	
<b>UNIT COSTS:</b>			\$0.10	✓	\$0.20	
<b>TOTAL COSTS:</b>			\$18.00	✓	\$0.00	

**REPRODUCTION TOTALS:** ✓ **\$978.00**

**MISCELLANEOUS PUBLIC INVOLVEMENT COSTS**

Public Advertisement:	0	days	\$0.00	per day (2"x6.5")	=	\$0.00
Postage	0	each x	\$0.34		=	\$0.00
					=	\$0.00

**TOTAL MISC. PUBLIC INVOLVEMENT COSTS:** **\$0.00**

**TOTAL OUT-OF-POCKET EXPENSES:** ✓ **\$9,738.00**

CONGRESS AVE. OVER PBC CANAL L-2

LWDD AND SFWMD APPLICATION FEES

SFWMD	Permit Modif.	Permit		Total Fee	
	✓ \$1,200.00			✓ \$1,200.00	< 10 Ac.
LWDD DRAINAGE	Permit Modif.	Permit App	One-Time Usage		
ROAD		✓ \$3,000.00		✓ \$3,000.00	One discharge control structure
		✓ \$1,800.00		✓ \$1,800.00	One Add. Discharge
ROW		✓ \$9.00/LF	✓ \$14.00/LF		
CULVERT	120 LF	✓ \$1,080.00	✓ \$1,680.00	✓ \$2,760.00	
			TOTAL:	✓ \$8,760.00	

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**

**PERMIT APPLICATION FEE SCHEDULE**

(Effective 10/1/2013)

**Environmental Resource Permits**

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

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

**New Individual Agriculture or Silviculture Permit**

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

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

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

**Individual Agriculture or Silviculture Permit Major Modification**

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

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

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

**LAKE WORTH DRAINAGE DISTRICT  
OPERATING POLICIES**

**Chapter 2: Fees**

**2.2 STORMWATER MANAGEMENT PERMIT FEE SCHEDULE**

All required permit fees for a project seeking a Stormwater Management Permit are to be submitted with the permit application package. The permit application will not be processed, distributed or reviewed until the required permit fees are received by LWDD. A Stormwater Management Permit will not be issued by LWDD until all permit application requirements, including all review comments, are addressed to LWDD's satisfaction.

The LWDD may record a Notice of Permit with the Palm Beach County Clerk of Court for certain types of permits. In addition to application and usage fees, recording fees based upon current fees charged by the Palm Beach County Clerk of Court will be assessed and collected prior to permit issuance.

Permit fees will be doubled if improvements are constructed or installed without a permit or backfilled without inspection.

<u>Stormwater Management Permit Types</u>	<u>Permit Fee</u>
<b>Drainage Permits</b>	
Projects 10 acres or less	\$1,200.00 each
Projects above 10 acres and less than 40 acres	\$3,000.00 each
Projects 40 acres and above	\$4,200.00 each
Each subsequent phase of a previously approved master drainage plan (each subsequent phase of a previously approved master drainage plan is considered a minor modification to the previously approved master drainage plan)	\$ 300.00 each
[REF: CHAPTER 3, SECTION 3.5]	
<b>Roadway Projects</b>	
Designs with zero (0) or one (1) proposed discharge control structure	\$3,000.00 each
Each additional proposed discharge control structure	\$1,800.00 each
[REF: CHAPTER 3, SECTIONS 3.4 & 3.5]	

Existing culverts for side streets and driveways that are being replaced or modified within LWDD Canal(s) for required canal relocation, as part of a roadway project, are included in roadway fees.



LAKE WORTH DRAINAGE DISTRICT  
OPERATING POLICIES

Chapter 2: Fees

2.3 RIGHT-OF-WAY PERMIT FEE SCHEDULE (CONTINUED)

<u>Right-of-Way Permit Types</u>	<u>Permit Application Fee</u>	<u>One-Time Right-of-Way Usage or Occupancy Fee</u>
Bridges [REF: CHAPTER 3, SECTION 3.1]	\$ 0.25 per S.F. of bridge surface (min. \$ 300.00)	\$ 0.40 per S.F. of bridge surface (min. \$ 450.00)

Bridge surface includes the entire length of the bridge (including the length of approach slabs) multiplied by the entire bridge width.

Bulkheads [RE: CHAPTER 3, SECTION 3.6]	\$ 10.00 per L.F. of bulkhead within canal right-of-way (min. \$ 500.00)	\$ 15.00 per L.F. of bulkhead within canal right-of-way (min. \$ 750.00)
-------------------------------------------	-----------------------------------------------------------------------------------	-----------------------------------------------------------------------------------

✓ Culvert Crossings [REF: CHAPTER 3, SECTION 3.4]	✓ \$ 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 (see Section 3.9).  
[REF: CHAPTER 3, SECTION 3.4]



**HSQ GROUP, INC.**  
Engineers • Planners • Surveyors

**Congress Avenue Over PBC L-2 Canal**  
**COUNTY PROJECT NO. 2019802**  
**SCOPE OF SERVICES**

Date: 10/16/2019

**DESCRIPTION**

Services will include surveying, drainage design, permitting and utility coordination in accordance with Palm Beach County Thoroughfare Roadway Design Procedures, 2006.

**BASIC SERVICES**

**Drainage design analysis.**

- 1- Evaluate the existing canal hydraulic capacity at the bridge location and evaluate whether to replace the existing bridge with reinforced concrete pipes or a bridge.
- 2- Summarize the findings in a technical memorandum with recommendation for replacement of the bridge in kind or use of RCP.
- 3- Exfiltration design, one north of L-2 and one south of L-2.
- 4- Spread analyses as per FDOT standards (4 inches/hr)
- 5- Existing underground pipes will be evaluated for the additional runoff for the limit of the project only which 500' north and 500' south of the L2 canl.
- 6- Prepare drainage design memorandum to be used for permitting and documenting the drainage design
- 7- Drainage design to be prepared in accordance with current FDOT Drainage Manual, SFWMD, LWDD design criteria as well as PBC Thoroughfare Road Design Procedures.

**Drainage Plans to include the following:**

1. Drainage structure sheets. No summary of drainage structure sheet will be required.
2. Miscellaneous drainage details, i.e control structure, exfiltration trench.
3. Culvert detail sheet.

**Permitting**

HSQ will prepare and process needed documents for permitting from the following agencies:

- Roadway Drainage Permit from LWDD
- ROW occupancy permit for the culverts or bridge from LWDD and ITS conduits
- SFWMD (ERP), USACE

**Utility Coordination**

Services will include the following:

- HSQ will assist PBC Utility Coordinator to obtain information and markups from utility owners and show the utilities in a Cadd file (dgn) and provide it to Stantec for the preparation of the construction plans.
- Coordination and follow up with PBC Utility Coordinator and utility owners.
- Attend utility meetings and prepare utility coordination meeting minutes.
- Coordinate with utility owners to resolve utility conflicts.
- Prepare utility conflict matrix and utility dgn file.

**\* Optional Services:**

- 1- Post design services such as shop drawings, review of as built and answering RFI.

**ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT**

Name of Project:  
County:  
FPN:  
FAP No.:

BASIC SVCS: Congress Ave over PBC L-2 Canal  
PBC  
0

HSQ GROUP,  
INC  
  
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Staff Classification	Total Staff Hours From "SH Summary Firm"	Sr Engineer	Project Engineer	Engineer Intern	SH By Activity	Salary Cost By Activity	Average Rate Per Task
6a. Drainage Analysis	77	17.71	56.21	3.08	77	\$3,484.25	\$45.25
6b. Drainage Plans	42	6.30	21.00	14.70	42	\$1,700.48	\$40.49
7. Utilities	70	3.50	10.50	56.00	70	\$2,366.01	\$33.80
8. Environmental Permits, Compliance & Clearances	90	45.00	36.00	9.00	90	\$4,349.25	\$48.33
<b>Total Staff Hours</b>	279	72.51	123.71	82.78	279		
<b>Total Staff Cost</b>		\$4,096.82	\$5,257.68	\$2,545.49		\$11,899.99	\$42.65

Check = \$11,899.98

SALARY RELATED COSTS:	\$11,899.99
OVERHEAD: 145.48%	\$17,312.11
OPERATING MARGIN: 12%	\$3,505.45
Subtotal roadway services	\$32,717.55
Subtotal roadway optional services	\$2,022.17
Subtotal Surveying services	\$20,010.65
Subtotal Optional Surveying services	\$4,000.00
<b>TOTAL BASIC SERVICES</b>	<b>\$52,728.20</b>
<b>TOTAL OPTIONAL SERVICES</b>	<b>\$6,022.17</b>
<b>TOTAL ALL SERVICES</b>	<b>\$58,750.37</b>

**Project Activity 6a: Drainage Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
1	Evaluate the existing canal hydraulic capacity at the bridge location and evaluate whether to replace the existing bridge with reinforced concrete pipes or a bridge.	LS	1	13	✓ 13	
2	Summarize the findings in a technical memorandum with recommendation for replacement of the bridge in kind or use of RCP.	LS	1	6	✓ 6	
3	Exfiltration design, one north of L-2 and one south of L-2.	LS	2	4	✓ 8	
4	Spread analyses	EA	4	2	✓ 8	
5	Existing underground pipes will be evaluated for the additional runoff for the limit of the project only.	EA	6	3	✓ 18	
6	Prepare drainage design memorandum to be used for permitting and documenting the drainage design	LS	1	24	✓ 24	
<b>6a. Drainage Analysis Total</b>					✓ 77	

**6b. Drainage Plans**

<b>Task No.</b>	<b>Task</b>	<b>Scale</b>	<b>Units</b>	<b>No. of Units or Sheet</b>	<b>Hours/ Unit or Sheet</b>	<b>Total Hours</b>	<b>Comments</b>
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	1	8	✓ 8	
6b.7	Culvert detail sheet		Sheet	1	16	✓ 16	
6b.8	Drainage structures		EA	6	3	✓ 18	
<b>6. Drainage Plans Total</b>						<b>✓ 42</b>	

**Project Activity 7: Utilities**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
7.1	Make Utility Contacts	LS	1	1	✓ 1	
7.20	Review Utility Markups	LS	1	12	✓ 12	for all phases
7.30	Utility Coordination/Followup	LS	1	8	✓ 8	this task is to coordinate with UAO i.e. provide CADD files, PDF, coordinate test holes, call and follow up with UAO to make sure that schedule is not affected.
7.40	Establish a utility dgn file	LS	1	24	✓ 24	show markups on a dgn
7.50	Prepare utility conflict matrix	LS	1	16	✓ 16	
7.60	Utility coordination meetings	EA	3	3	✓ 9	65%+96%+100% (including meeting minutes)
<b>7. Utilities Total</b>					<b>✓ 70</b>	

**Project Activity 8: Environmental Permits**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No. of Units</b>	<b>Hours/ Units</b>	<b>Total Hours</b>	<b>Comments</b>
<b>Environmental Permits, Compliances and Clearances</b>						
8.2	Complete and Submit Required LWDD permits	LS	1	40	✓ 40	roadway drainage ERP +, culvert and ITS conduits right of way permit
8.3	Complete and Submit Required SFWMD permits	EA	1	30	✓ 30	
8.5	USACE	EA	1	20	✓ 20	includes pre-application meetings with permitting agencies
<b>Environmental Permits, Compliance, and Clearances/Reevaluations Technical Subtotal</b>					✓ 90	

~~OPTIONAL~~ **OPTIONAL SERVICES**

Name of Project:  
 County:  
 FPN:  
 FAP No.:

BASIC SVCS: Congress Ave over PBC L-2 Canal  
 PBC  
 0

HSQ GROUP, INC  
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Staff Classification	Total Staff Hours From "SH Summary Firm"	Sr Engineer	Project Engineer	SH By Activity	Salary Cost By Activity	Average Rate Per Task
OPTIONAL SERVCIES	15	7.00	8.00	15	\$735.50	\$49.03
<b>Total Staff Hours</b>	15	7.0	8.0	15		
<b>Total Staff Cost</b>		\$395.50	\$340.00		\$735.50	\$49.03

Check = \$735.50

SALARY RELATED COSTS: ✓ \$735.50  
 OVERHEAD: ✓ 145.48% \$1,070.01  
 OPERATING MARGIN: ✓ 12% \$216.66  
 SUBTOTAL ESTIMATED FEE: ✓ \$2,022.17





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

## CONGRESS AVENUE PBC. L-2 CANAL BRIDGE REPLACEMENT

### Land Survey Scope of Services

#### PROJECT LIMITS

Congress Avenue to 500' north of the L-2, to 500' south of the L-2 and Cherry Road 200 feet west of Congress Avenue. Estimated length is approximately 1,200 feet.

#### SCOPE OF SERVICES

The Topographic Survey will be done in accordance with the current State of Florida Standards of Practice and the applicable portions of the Palm Beach County Thoroughfare Road Design Procedures (Feb. 2006) except as otherwise designated herein (i.e.: NAVD88 vertical datum).

1. Review a title search provided by Palm Beach County. Research and obtain plats and deeds from the Palm Beach County Property Appraiser's website, the Palm Beach County Clerk's website, Palm Beach County Right-of-way maps, and Lake Worth Drainage District to establish the existing right-of-ways, and compile the data into a base map. Consultant will advise the County of any apparent missing right-of-way documentation or of any apparent gaps or overlaps in the right-of-way per the documents provided.
2. Prepare a drawing showing the linework, width, and recording information of the right-of-way and easement documents provided, and submit the drawing to the county for review and confirmation of the existing right-of-ways.
3. Collect horizontal global positioning control monumentation (these are few and far in between) and set control points every 600'± tied to Florida East Zone State Plane Coordinates (NAD 83, 1990 adjustment).
4. Collect published vertical benchmarks, run a closed level loop, and set benchmarks outside the limits of construction (NAVD 1988 datum) every 600'±.
5. Locate subdivision corners, section corners, and other existing control monuments that will assist in the determination of the location of the right-of-way lines. The properties on the east side of Congress Avenue are not platted). Identify the existing control recovered and provide ties to the project baseline.
6. Locate above ground features (including walks, utilities, poles, signage, striping, etc.) within the Congress Avenue and Cherry Road right-of-ways with elevations, obtaining break lines and high and low points for the roadways.
7. Cross-section the right-of-ways at 100' intervals extending 25' beyond the right-of-ways.
8. Cross section the L.W.D.D. canal to west of the top of west bank of the L.W.D.D. E-3 ½ 8 canal, and the said E-3 canal just north of the confluence. Also cross section the City of West Palm Beach Canal on the east side of Congress Avenue to 100' east of the bridge, obtaining the canal slopes, mud line bottom, embankment, and rip rap.
9. Locate the bridge low members to reveal clearances. (No bridge detail required).
10. Obtain the topography of the vacant land north of the L-2, (parcel numbers 00434330120000271 and 272).
11. Detail drainage structures and outfalls. Obtain invert elevations with pipe material, size and direction.
12. Prepare 3 cross sections for the L-2 canal and 1 for the E-3 canal for L.W.D.D. submittal.
13. Prepare a DTM (digital terrain model) of the site, not including the bridge deck.
14. Re-establish the historic baseline for Congress Avenue as shown on P.B.C.O. right-of-way map (R.P.B. 3, PG. 174). Set baseline horizontal control points (begin/end, and PI). Set reference points to the baseline points (3 reference points each).
15. Prepare a Topographic Survey consisting of:
  - a. labeled right-of-ways, easements, and adjacent parcels,
  - b. the existing features mentioned above with spot elevations,
  - c. on 24"x36" sheets at a scale of 1"=20',
  - d. PBCO published section corners and/or control monuments tied to baseline begin and end,
  - e. the found subdivision corners and/or other existing control monuments identified and tied to the baseline,

- f. the control points (horizontal and vertical) set every 600'± outside of the limits of construction, where possible,
  - g. the drainage structure rim and invert data and apparent connections,
  - h. the monumentation set at the baseline points and the references to same,
  - i. map of survey to be included in the plan set and signed and sealed by the surveyor.
16. Prepare Project Network Control Sheet (to include baseline data, PBCo control monuments, baseline monumentation, control points/benchmarks, notes, legend, etc.), and Reference Point Sheet to be included in plan set.
17. Create deliverable Microstation files and points file.
18. Optional Services: Prepare five Sketch and Legal Descriptions for Temporary Construction Easements.

#### **SURVEY DELIVERABLES**

- 1- Map of right-of-way and easement documents (24"x36" sheets, 1"=20' scale).
- 2- Specific Purpose Survey (24"x36" sheets, 1"=20' scale).
- 3- Project Network Control Sheet(s) and Reference Point Sheet(s).
- 4- The SURVRD01 file in a Microstation cad format.
- 5- An ASCII file of points in terms of x,y,z, description.
- 6- A DTM in XML format for Microstation.
- 7- L.W.D.D. cross section sheets.
- 8- Eight Sketch and Legal Descriptions.
- 9- One set signed & sealed of the Survey, one set in pdf of both the Plans and Survey and CAD files for both.



HSQ GROUP, INC.  
Engineers • Planners • Surveyors

Congress Avenue L-2 Canal  
Summary Surveying fee proposal

Description	Two-Man Crew		Senior Surveyor and Mapper		Surveyor and Mapper		Cadd Technician		Total STAFF HRS. ACTIVITY	Total COST BY ACTIVITY	
	STAFF HOURS	HR. RATE	STAFF HOURS	HR. RATE	STAFF HOURS	HR. RATE	STAFF HOURS	HR. RATE			
Basic Survey Services	✓ 64.00	\$ ✓ 49.50	✓ 7.00	\$ ✓ 55.00	✓ 29.00	\$ ✓ 44.25	✓ 88.00	\$ ✓ 27.75	✓ 188.00	\$ ✓ 7,278.25	
		\$ 3,168. <sup>00</sup>		\$ 385. <sup>00</sup>		\$ 1,283.25		\$ 2,442. <sup>00</sup>			
<b>HSQ FEE CALCULATIONS</b>											
Type of services	Cost by activity		Overhead multiplier	Overhead cost	Subtotal (cost by activity + overhead cost)		Profit (%)	Total			
Basic services	\$ ✓ 7,278.25		✓ 145.48%	\$ ✓ 10,588.40	\$ ✓ 17,866.65	(+ \$ 2,144)	✓ 12.00%	\$ ✓ 20,010.65			
	<del>8 SKETCH AND LEGAL X \$500 (OPTIONAL SERVICES)</del>								\$ ✓ 4,000.00		
Reimbursables (basic services)											
<b>TOTAL</b>										\$ ✓ 24,010.65	

**Congress Avenue L-2 Canal**  
Basic Survey Services



**HSQ GROUP, INC.**

Engineers • Planners • Surveyors

Item No.	Work Task	Estimated Work Hours				Notes
		Two-Man Field Crew	Senior Surveyor and Mapper	Surveyor and Mapper	CADD Technician	
1	Review title search provided by Palm Beach County to establish existing right-of-ways, prepare right of way base map. Contact L.W.D.D.		1	3	4	<i>East properties not platted. L.W.D.D. R/W is complicated at this section line. Road Plat Book is required</i>
2	Prepare a drawing of the right-of-way and easement documents provided, submit to county.		1	2	6	
3	Collect GPS control points and set control points.	6		1	1	
4	Collect vertical benchmarks, set benchmarks and run closed level loop.	6		1	1	
5	Locate section comers, subdivision comers, and other existing control monument.	6		1	1	
6	Locate above ground features with elevations, obtaining break lines and high and low break points for the roadway.	10		2	7	
7	Cross section 100' intervals extending 25' outside the R/W.	10		1	4	
8	Cross section L-2 canal extending west of the E-3 confluence, E-3 just north of the confluence and the West Palm Beach canal extending 100' east of the bridge.	6		2	4	Very thick Brazilian Pepper on north side west of bridge
9	Bridge low members will be located to reveal clearances.	2			2	
10	Obtain the topography of the vacant land north of the L-2 canal	6			2	Very thick Brazilian Pepper on north side west of bridge
11	Detail drainage structures and outfalls with pipe sizes materials invert elevations and directions	6		2	4	
12	Prepare L.W.D.D. 3 cross sections for L-2 canal and 1 cross sections for the E-3 canal.		2	4	10	
13	Prepare DTM (digital terrain model)			3	6	<i>AutoCAD and XML</i>
14	Set baseline points and set reference points to the baseline and prepare a reference point sheet.	6		1	8	
15	Prepare Topographic Survey.		2	2	10	
16	Prepare project network control sheet.		1	2	6	
17	Create deliverable Microstation file, PDF etc			2	12	
<b>TOTAL HOURS</b>		<b>64</b>	<b>7</b>	<b>29</b>	<b>88</b>	



Date: 10/16/2019

**STANTEC**  
**2056 Vista Parkway, Suite 100**  
**West Palm Beach FL 33411**

Attn: Mr. Ross Shillingford, P.E. Senior Project Manager

Re: **Proposal for Geotechnical Services**  
**Congress Avenue Over L-2 Canal**  
**Palm Beach County, Florida**  
**PBC Project No. 2019802**  
**TSF Proposal No.: 1810-607**

Dear Ross:

As requested, TIERRA SOUTH FLORIDA, INC. (TSF) is pleased to submit this proposal for the above-referenced project. The proposal is based on a scope meeting with Stantec and Palm Beach County Roadway Production on September 11, 2018, and subsequent discussions. This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

#### **PROPOSED SCOPE OF WORK**

All work performed by TSF will be in general accordance with Palm Beach County and FDOT standards. Our scope of work will consist of the following:

- Perform a total of two (2) borings on land to a depth of 40 feet below existing grades for pipe culvert. Perform SPT sampling at 2.5-foot interval.
- Perform four (4) auger borings to 5 feet, and two (2) auger borings to a depth of 10 feet. Auger borings will be staggered at 200-foot intervals for about 500 feet on either side of the bridge.
- Obtain a total of two (2) pavement cores from the existing roadway (one core each on either side of the existing bridge) to measure the existing pavement thickness. Structural Number (SN) will be estimated based on field data and pavement information provided by Stantec/County. Pavement core locations to be provided by Stantec.

- Boring locations will be located in the field by TSF personnel by using a hand-held GPS and measuring distances with a tape from known-reference points. We recommend as-drilled boring locations be surveyed.
- Prior to drilling, notify the local utility companies and request that underground utilities be marked.
- Provide MOT as required to perform the field work.
- Collect water sample from the canal for environmental corrosion tests.
- Perform soil classification and laboratory testing.
- Coordinate with the structural engineer to provide foundation evaluation and recommendations to assist in the design.
- Provide soil parameters for wing wall.
- Prepare and submit roadway soil survey report which will include pavement core data, estimated SN values, and culvert.

Our fee is based on the assumption that boring locations are open and accessible to our truck mounted drill rig.

#### **ESTIMATED FEES**

It is proposed that the fee for the performance of the services outlined above be determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal.

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

#### **SCHEDULE AND AUTHORIZATION**

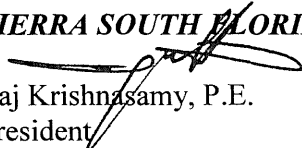
TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting and permit approval). The fieldwork will take about two weeks to complete. The written report can be submitted about three weeks after completion of the field exploration, depending on the extent of the

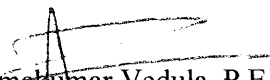
laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

We at TSF appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

***TIERRA SOUTH FLORIDA, INC.***

  
Raj Krishnasamy, P.E.  
President

  
Ramakumar Vedula, P.E.  
Principal Engineer

Congress Avenue over L-2 Canal  
Palm Beach County, Florida

Fee Estimate for Geotechnical Study - Roadway

TIERRA SOUTH FLORIDA, INC.

	Unit	# of Units		Unit Price		Total
<b>I. FIELD INVESTIGATION</b>						
Mobilization of Men and Equipment Truck-Mounted Equipment	Trip	1	\$	✓ 350.00	\$	✓ 350.00
SPT Borings 0 - 50 ft depth	L.F.	80	\$	✓ 12.00	\$	✓ 960.00
Grout Boreholes 0 - 50 ft depth	L.F.	80	\$	✓ 5.50	\$	✓ 440.00
Casing Allowance 0 - 50 ft depth	L.F.	80	\$	✓ 7.00	\$	✓ 560.00
Extra SPT Samples 0 -50 ft Depth	Each	12	\$	34.25	\$	✓ 411.00
Auger Borings	L.F.	40	\$	✓ 9.00	\$	✓ 360.00
Pavement Cores	Each	2	\$	✓ 100.00	\$	✓ 200.00
Coring Machine rental	Trip	1	\$	✓ 400.00	\$	✓ 400.00
Traffic Control (1-man crew with safety equipments)	Each	2	\$	800.00	\$	✓ 1,600.00
<b>III. LABORATORY TESTING</b>						
Visual Examination by Staff Engineer	Hour	4	\$	✓ 90.00	\$	✓ 360.00
Natural Moisture Content Tests	Test	8	\$	✓ 20.00	\$	✓ 160.00
Grain-Size Analysis - Full Gradation	Test	8	\$	✓ 75.00	\$	✓ 600.00
Atterberg Limits	Test	0	\$	✓ 80.00	\$	0.00
Corrosion Test	Test	1	\$	✓ 185.00	\$	✓ 185.00
Organic Content Tests	Test	3	\$	✓ 50.00	\$	✓ 150.00
LBR	Test	2	\$	✓ 300.00	\$	✓ 600.00
<b>IV. FIELD ENGINEERING AND TECHNICAL SERVICES</b>						
Site Recon./Utility Coordination/MOT Sr. Engineering Technician	Hour	10	\$	✓ 70.00	\$	✓ 700.00
<b>Sub Total in Field (SBE) \$</b>						✓ <b>8,036.00</b>
<b>V. ENGINEERING AND TECHNICAL SERVICES</b>						
Principal Engineer	Hour	6	\$	✓ 150.00	\$	✓ 900.00
Senior Geotechnical Engineer	Hour	10	\$	✓ 130.00	\$	✓ 1,300.00
Engineer	Hour	30	\$	✓ 120.00	\$	✓ 3,600.00
Draftperson	Hour	10	\$	✓ 65.00	\$	✓ 650.00
<b>Sub Total in Office \$</b>						✓ <b>6,450.00</b>
<b>TOTAL GEOTECHNICAL STUDY FEE FOR ROADWAY =</b>						✓ <b>\$ 14,486.00</b>

✓ 2.83 multiple



# OEBO SCHEDULE 1

## LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

SOLICITATION/PROJECT/BID NAME: Congress Avenue over PBC Lat. 2 Canal Bridge Replacements

NAME OF PRIME RESPONDENT/BIDDER: Stantec Consulting Services Inc.

CONTACT PERSON: Mohit Soni

SOLICITATION OPENING/SUBMITTAL DATE: \_\_\_\_\_

SOLICITATION/PROJECT/BID No.: 2019802

ADDRESS: 2056 Vista Parkway, Ste 100 West Palm Beach, FL 33411

PHONE NO.: 561-686-7707 E-MAIL: mohit.soni@stantec.com

DEPARTMENT: \_\_\_\_\_

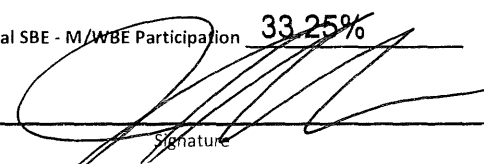
PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT ON THIS PROJECT. PLEASE ALSO LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT.

Name, Address and Phone Number	(Check all Applicable Categories)			DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	M/WBE Minority/Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)	
1. Stantec Consulting Services Inc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	58.55%	_____	
2. Tierra South Florida, Inc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	Asian American 8.20%	
3. HSQ Group, Inc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	_____	Hispanic American 33.25%	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	
(Please use additional sheets if necessary)							<b>Total</b>	58.55%	41.45%

Total Bid Price \$ 176,714.20

Total SBE - M/WBE Participation 33.25%

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

  
Signature

Vice President  
Title

- Note:
- The amount listed on this form for a Subcontractor/subconsultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
  - Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and/or M/WBE, please indicate the dollar amount under the appropriate category.
  - Modification of this form is not permitted and will be rejected upon submittal.

Exhibit C  
Page 1 of 3

**OEBO LETTER OF INTENT – SCHEDULE 2**

*Exhibit C  
Page 2 of 3*

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

SOLICITATION/PROJECT NUMBER: 2019802

SOLICITATION/PROJECT NAME: Congress Avenue PBC Lat. 2 Canal Bridge Replacements

Prime Contractor: Stantec Subcontractor: HSQ Group, Inc.

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

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 3/13/18-3/12/21

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

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

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

Line Item	Item Description	Unit Price	Quantity/Units	Contingencies/Allowances	Total Price/Percentage
	Drainage Analysis				9,579.52
	Drainage Plans				4,675.26
	Utilities				6,505.03
	Environmental Permits, Compliances & Clearances				11,957.74
	Surveying Services				20,010.65
	Optional Services				6,022.17

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: \$58,750.37

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

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

Price or Percentage: \_\_\_\_\_

Stantec Consulting Services  
Print Name of Prime

By: [Signature]  
Authorized Signature

Robert Caballo  
Print Name

Vice-President  
Title

Date: 11/05/2019

HSQ Group, Inc.  
Print Name of Subcontractor/subconsultant

By: [Signature]  
Authorized Signature

Nour Shehadeh  
Print Name

Vice President  
Title

Date: 11/4/2019

**OEBO LETTER OF INTENT – SCHEDULE 2**

*Exhibit C  
Page 3 of 3*

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

SOLICITATION/PROJECT NUMBER: 2019802

SOLICITATION/PROJECT NAME: Congress Avenue over PBC Lat. 2 Canal Bridge Replacements

Prime Contractor: Stantec Subcontractor: TSF

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

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

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

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

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

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Field Investigation				\$5281.00
	Laboratory Testing				\$2055.00
	Field Engineering and Technical Services				\$700.00
	Engineering and Technical Services				\$6450.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$14,486.00

**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

Stantec Consulting Services  
Print Name of Prime

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

Rodolfo Corballo  
Print Name

Vice-President  
Title

Date: 10/29/2019

TSF (Tierra South Florida, Inc.)  
Print Name of Subcontractor/subconsultant

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

Raj Krishnasamy, PE  
Print Name

President  
Title

Date: 10/25/2019



# CERTIFICATE OF LIABILITY INSURANCE

10/1/2020

DATE (MM/DD/YYYY)  
9/13/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

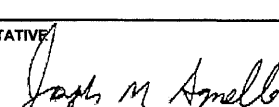
<b>PRODUCER</b> Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	<b>CONTACT NAME:</b> <b>PHONE (A/C, No. Ext):</b> _____ <b>FAX (A/C, No):</b> _____ <b>E-MAIL ADDRESS:</b> _____														
	<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td><b>INSURER A :</b> Berkshire Hathaway Specialty Insurance Company</td> <td>22276</td> </tr> <tr> <td><b>INSURER B :</b> AIG Specialty Insurance Company</td> <td>26883</td> </tr> <tr> <td><b>INSURER C :</b></td> <td></td> </tr> <tr> <td><b>INSURER D :</b></td> <td></td> </tr> <tr> <td><b>INSURER E :</b></td> <td></td> </tr> <tr> <td><b>INSURER F :</b></td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	<b>INSURER A :</b> Berkshire Hathaway Specialty Insurance Company	22276	<b>INSURER B :</b> AIG Specialty Insurance Company	26883	<b>INSURER C :</b>		<b>INSURER D :</b>		<b>INSURER E :</b>		<b>INSURER F :</b>
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<b>INSURER E :</b>															
<b>INSURER F :</b>															
<b>INSURED</b> 1420161 STANTEC CONSULTING SERVICES INC. 370 INTERLOCKEN BOULEVARD, SUITE 300 BROOMFIELD CO 80021-8012															

**COVERAGES**      **CERTIFICATE NUMBER:** 14178204      **REVISION NUMBER:** XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER: _____			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX DAMAGE TO RENTED PREMISES (Ea occurrence) \$ XXXXXXXX MED EXP (Any one person) \$ XXXXXXXX PERSONAL & ADV INJURY \$ XXXXXXXX GENERAL AGGREGATE \$ XXXXXXXX PRODUCTS - COMP/OP AGG \$ XXXXXXXX \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			NOT APPLICABLE			COMBINED SINGLE LIMIT (Ea accident) \$ XXXXXXXX BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED    RETENTION \$			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	NOT APPLICABLE			PER STATUTE    OTH-ER E.L. EACH ACCIDENT \$ XXXXXXXX E.L. DISEASE - EA EMPLOYEE \$ XXXXXXXX E.L. DISEASE - POLICY LIMIT \$ XXXXXXXX
A	Professional Liab	N	N	47-EPP-308810 FULL PRIOR ACTS	10/1/2019	10/1/2020	\$3,000,000 PER CLAIM/AGG INCLUSIVE OF COSTS
B	Contractors Pollution Liab			CPO8085428	10/1/2019	10/1/2021	\$3,000,000 PER LOSS/AGG

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**  
 2158 RE: FOR ALL PROJECTS WITH PALM BEACH COUNTY. THE COVERAGE SHALL NOT BE CANCELLED OR NON RENEWED EXCEPT AFTER THIRTY (30) DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER.

<b>CERTIFICATE HOLDER</b> 14178204 PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS ENGINEERING AND PUBLIC WORKS DEPARTMENT 2300 NORTH JOG ROAD WEST PALM BEACH FL 33411-2745	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
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# CERTIFICATE OF LIABILITY INSURANCE

5/1/2020

DATE (MM/DD/YYYY)  
8/7/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER LOCKTON COMPANIES 444 W. 47TH STREET, SUITE 900 KANSAS CITY MO 64112-1906 (816) 960-9000	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A : Berkshire Hathaway Specialty Insurance Company	NAIC # 22276
	INSURER B : Travelers Property Casualty Co of America	25674
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

INSURED  
1426517 STANTEC CONSULTING SERVICES INC.  
370 INTERLOCKEN BOULEVARD, SUITE 300  
BROOMFIELD CO 80021-8012

COVERAGES      CERTIFICATE NUMBER: 14635414      REVISION NUMBER: XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CONTRACTUAL/CROSS <input checked="" type="checkbox"/> XCU COVERED GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:	Y	Y	47-GLO-307584	5/1/2019	5/1/2020	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B B B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY	N	Y	TC2J-CAP-8E086819 TJ-BAP-8E086820 TC2J-CAP-8E087017	5/1/2019 5/1/2019 5/1/2019	5/1/2020 5/1/2020 5/1/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	N	Y	47-UMO-307585	5/1/2019	5/1/2020	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$ XXXXXXXX
B B B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) if yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	Y N/A	TC2J-UB-8E08592 (AOS) TRJ-UB-8E08593 (MA, WI) EXCEPT FOR OH ND WA WY	5/1/2019 5/1/2019	5/1/2020 5/1/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
THIS CERTIFICATE SUPERSEDES ALL PREVIOUSLY ISSUED CERTIFICATES FOR THIS HOLDER, APPLICABLE TO THE CARRIERS LISTED AND THE POLICY TERM(S) REFERENCED.  
2158 RE: FOR ALL PROJECTS WITH PALM BEACH COUNTY. PLC2727 AND PLC3111\*\*\* SEE ATTACHMENT \*\*\*

<b>CERTIFICATE HOLDER</b> 14635414 PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS ENGINEERING AND PUBLIC WORKS DEPARTMENT 2300 NORTH JOG ROAD WEST PALM BEACH FL 33411-2745	<b>CANCELLATION</b> See Attachments SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>Joseph M. Amello</i>
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CONTINUATION DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS (Use only if more space is required)

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, ITS OFFICERS, EMPLOYEES, AND AGENTS ARE ADDITIONAL INSUREDS AS RESPECTS GENERAL LIABILITY, BUT ONLY ARISING OUT OF THE OPERATIONS OF THE NAMED INSURED, AND THIS COVERAGE IS PRIMARY AND OTHER INSURANCE IS EXCESS AND NON CONTRIBUTORY, IF REQUIRED BY WRITTEN CONTRACT. WAIVER OF SUBROGATION APPLIES IF REQUIRED BY WRITTEN CONTRACT AND ALLOWED BY STATE LAW. THE COVERAGE SHALL NOT BE CANCELLED OR NON RENEWED EXCEPT AFTER THIRTY (30) DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER.

**SECRETARY'S CERTIFICATE**  
for  
**STANTEC CONSULTING SERVICES INC.**  
A NEW YORK, CORPORATION

I, the undersigned, do hereby certify that:

1. I am the duly elected and acting **Assistant Secretary of Stantec Consulting Services Inc.**, a **New York** corporation (the "**Corporation**").
2. On **April 15, 2019**, the following resolution was adopted by the Corporation's Board of Directors:

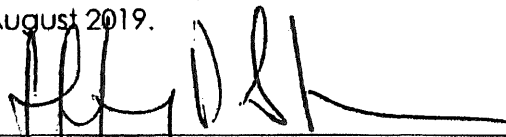
BE IT RESOLVED THAT:

1. the Corporation hereby adopts the Signing Authority Policy, as modified or amended from time to time, of Stantec Inc.
2. execution of any documents for and on behalf of the Corporation shall be governed by the Signing Authority Policy, as modified or amended from time to time, of Stantec Inc.;
3. the Secretary or any of the Corporate Counsels of the Corporation be authorized, empowered and directed from time to time as required to facilitate the execution of contracts or submission of proposals, to sign, and to seal with the Corporate Seal, Certificates of the foregoing action evidencing the authority delegated in the Signing Authority Policy, as amended from time to time, of Stantec Inc.

**Robert T. Carballo** is a **Vice President** of the Corporation, and in that capacity is duly authorized to sign proposals and enter into agreements for professional services in accordance with the Corporation's Signing Authority Policy for the following:

**Palm Beach County, Florida**

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Corporation, this 19th day of August 2019.

  
\_\_\_\_\_  
**Jeffrey P. Stone, Vice President and Associate  
General Counsel and Assistant Secretary**

