

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: October 22, 2019 [x] Consent [] Regular
[] Workshop [] Public Hearing

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

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 \$339,291.71 for professional services for the Belvedere Road over Lake Worth Drainage District (LWDD) E-3 Canal bridge replacement (Project).

SUMMARY: Approval of this work task order will provide the design services necessary for the project. The services include production of construction plans to replace the existing twin bridges with a single bridge on Belvedere Road over the LWDD E-3 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 the time. The SBE goal for all contracts was 15%. SCSI proposed 31% for the contract. Their SBE participation for this work task order is 32.5%. Their cumulative SBE participation to date including this work task order is 30%. SCSI is a Palm Beach County (County) based company. District 2 (YBH)

Background and Justification: On February 7, 2017, the Board of County Commissioners (BCC) approved 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)	\$219,711.59	(Roadway & Structural Analysis and Plans, Drainage Analysis and Plans, Signing and Pavement Marking Analysis and Plans, Environmental Permitting and Utility Coordination)
Reimbursable Services (Not to Exceed)	\$ 92,854.97	(Deliverables, Geotechnical Services, Design Survey and Permit Fees).
Optional Services (Not to Exceed)	\$ 26,725.15	(Post Design Services).
Total:	\$339,291.71	

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)

Recommended by: *[Signature]* County Engineer Date: *10/28/2019*

Approved By: *[Signature]* Assistant County Administrator Date: *10/15/19*

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2020	2021	2022	2023	2024
Capital Expenditures	<u>\$475,011</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Operating Costs	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
External Revenues	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Program Income (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
In-Kind Match (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
NET FISCAL IMPACT	<u>\$475,011</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
# 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 1556 Object 6505
 Fund 3950 Dept 361 Unit 1556 Object 6505-AE10

Recommended Sources of Funds/Summary of Fiscal Impact:

Transportation Improvement Fund
 Local Government One-Cent Infrastructure Surtax
 Belvedere Rd over E-3 canal (934205 & 934206)

Basic Services	\$ 219,711.59
Reimbursables	\$ 92,854.97
Optional Services	\$ 26,725.15
Total Task Authorization	\$ 339,291.71
Staff Costs -	
Roadway Production	\$ 67,859.00
Right of Way	\$ 16,965.00
Survey	\$ 16,965.00
Traffic	\$ 33,930.00
Fiscal Impact	\$ 475,010.71

Surtax Funding from FY 2018 for \$450,000, Belvedere Rd over E-3 canal (934205 & 934206).

C. Departmental Fiscal Review: Alii Kovalainen

III. REVIEW COMMENTS

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

Robert Law 10/7/19
 bid4 OFMB DC 10/3

A. J. Law 10/11/19
 Contract Dev. and Control
 10/11/19 (19)

B. Approved as to Form and Legal Sufficiency:

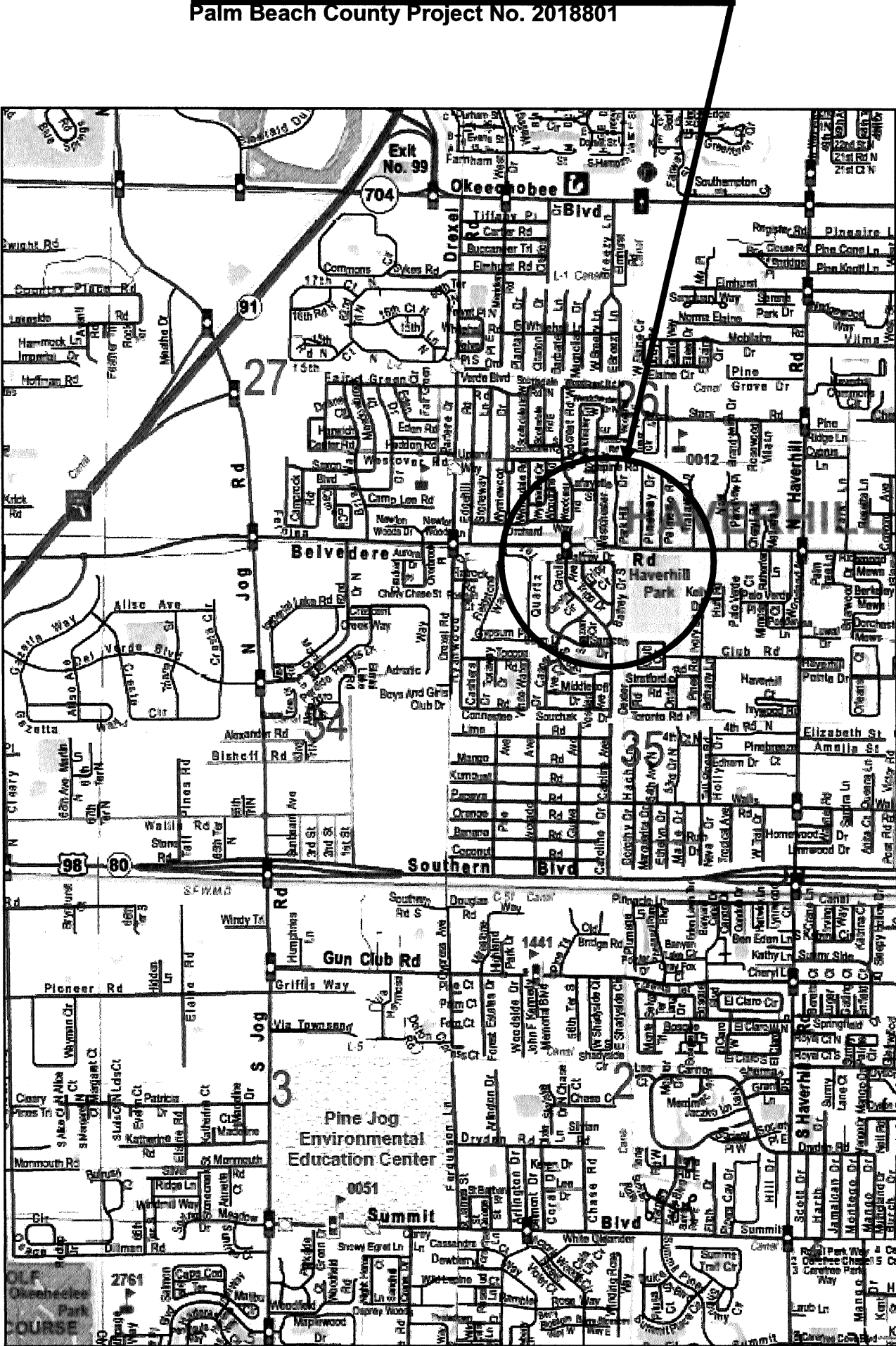
MB Verma 10/15/19
 Assistant County Attorney

C. Other Department Review:

 Department Director

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

Belvedere Road over LWDD E-3 Canal Bridge
(Bridge No. 934205 and 934206)
Palm Beach County Project No. 2018801



LOCATION MAP

**WORK TASK ORDER TO THE
ANNUAL STRUCTURAL PROFESSIONAL SERVICES CONTRACT
BY AND BETWEEN PALM BEACH COUNTY
AND STANTEC CONSULTING SERVICES, INC. FOR
BELVEDERE ROAD OVER LWDD E-3 CANAL
PROJECT # 2018801**

This Work Task Order to the Contract for Annual Structural 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 Contract for Annual Structural Professional Services (R2017-0137), dated February 7, 2017 (ANNUAL CONTRACT) on a work task order basis, as amended on December 19, 2017 (R2017-1878), June 5, 2018 (R2018-0818), December 18, 2018 (R2018-1975) and October 22, 2019; and

WHEREAS, the COUNTY intends to replace existing twin bridges with a single bridge on Belvedere Road Over LWDD E-3 Canal, Project No. 2018801 (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 \$219,711.59
Reimbursable Expenses capped at \$ 92,854.97
Optional Services capped at \$ 26,725.15
Totaling **\$339,291.71**

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 Three Hundred Thirty-Nine Thousand Two Hundred Ninety One Dollars and Seventy-One Cents (\$339,291.71).

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:

CONSULTANT:
Stantec Consulting Services, Inc.

BY: _____
Mack Bernard, Mayor

BY: _____
Robert T. Carballo, P.E., Vice President



CORPORATE SEAL

S E A L

CORPORATE SEAL

ATTEST:
Sharon R. Bock, Clerk & Comptroller
Circuit Court

ATTEST WITNESS:

BY: _____
(Deputy Clerk)

BY: ROBERTO C. GONZALEZ
(Print Name)

(Signature)

APPROVED AS TO TERMS AND CONDITIONS:

BY: Caroline Sanchez
(Print Name)

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

Caroline Sanchez
(Signature)

APPROVED AS TO FORM & LEGAL SUFFICIENCY:

BY: YBH _____
Yelizaveta B. Herman,
Assistant County Attorney

**Palm Beach County
Roadway Production Division**

*OK to process as if
scope & fee - revisions
needed for original
submitted 4/23/19
Kofurall
8/27/19*

**Scope and Fee Proposal
For**

**Belvedere Road over LWDD E-3
Canal**

**(Bridge Nos.: 934205 and 934206)
Bridge Replacements**

Palm Beach County Project No. 2018801

Prepared By



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

**Submitted: April 23, 2019
Revised: August 19 2019**

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206)
Bridge Replacements
Palm Beach County Project No. 2018801

SCOPE of SERVICES

For
Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206)
Bridge Replacements

INTRODUCTION

Stantec Consulting Services, Inc. (Stantec) will provide professional engineering services to Palm Beach County (the County) to prepare a bridge design and plans to replace the existing twin bridges with a single bridge on Belvedere Road over the Lake Worth Drainage District (LWDD) E-3 Canal. Design plans, permits and construction documents will be prepared in accordance with the following manuals:

- Palm Beach County Thoroughfare Road Design Procedures, January 2019
- "Florida Greenbook" - FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways 2016
- FDOT Design Manual, January 2019
- FDOT Standards Plans, 2019-20
- 2009 MUTCD with Revisions 1 and 2, May 2012

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

A. BASIC SERVICES

1. Roadway Analysis and Plans

HSQ Group, Inc. (HSQ) will provide the Roadway Analysis and Plans needed for this project. See HSQs' scope and fee proposal.

2. Structural Analysis and Plans

Stantec will prepare a complete set of Structures Plans for the proposed one span bridge over LWDD E-3 Canal to include the following:

- Anticipated new bridge typical section includes 5-11ft lanes 7ft wide buffered bike lanes and 8' wide sidewalks on both sides.
- Anticipated new bridge superstructure will be prestressed Flat Slab Unit with Transverse Post Tensioning and the substructure will be pile bents.
- Precast prestressed concrete piles foundation will be utilized for this project. FDOT Standard 18-in precast prestressed concrete piles will be utilized.
- The new bridge will be designed to withstand the additional loads associated with the current utilities on the bridge including a utility shelf.
- Design the low member of the bridge to accommodate the future 6-lane which will include the widening on both sides within 110ft of right-of-way, meeting minimum vertical clearance requirements for the LWDD E-3 canal.

3. Drainage Analysis and Plans

Stantec will perform the bridge hydraulics and scour analysis. HSQ will provide the drainage design needed for the project. See HSQ's scope and fee proposal for the Drainage Design.

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206)**Bridge Replacements**

Palm Beach County Project No. 2018801

4. Signing and Pavement Marking Analysis and Plans

Stantec will prepare a complete set of Signing and Pavement Marking Plans in accordance with Palm Beach County's Typical for Pavement Markings, Signing and Geometrics and the Manual for Uniform Traffic Control Devices (MUTCD).

5. Environmental Permitting

HSQ will provide the environmental permitting services needed for the project. See HSQ's scope and fee proposal for the Environmental Permitting services.

6. Utility Coordination

Stantec will provide utility coordination services needed for the project.

B. REIMBURSABLE EXPENSES**1. Deliverables**

Stantec will provide four (4) sets of 11X17 Xerox copies of design plans at each of the phase submittals and three (3) sets of 8.5X11 Xerox copies of design calculations starting at the 35% phase submittal. CAD files, PDF files, etc. will be submitted on the CD at each phase submittal. A scroll plot of the roadway horizontal alignment will be included with the Master Plan phase submittal.

2. Geotechnical Services

Tierra South Florida, Inc. will provide geotechnical services. See Tierras' scope and fee proposal.

3. Design Survey

HSQ will provide all design survey and Stantec will provide the SUE needed for the project. See scope and fee proposal for Design Survey.

4. Permit Fees

Stantec will pay the reimbursable permit fees.

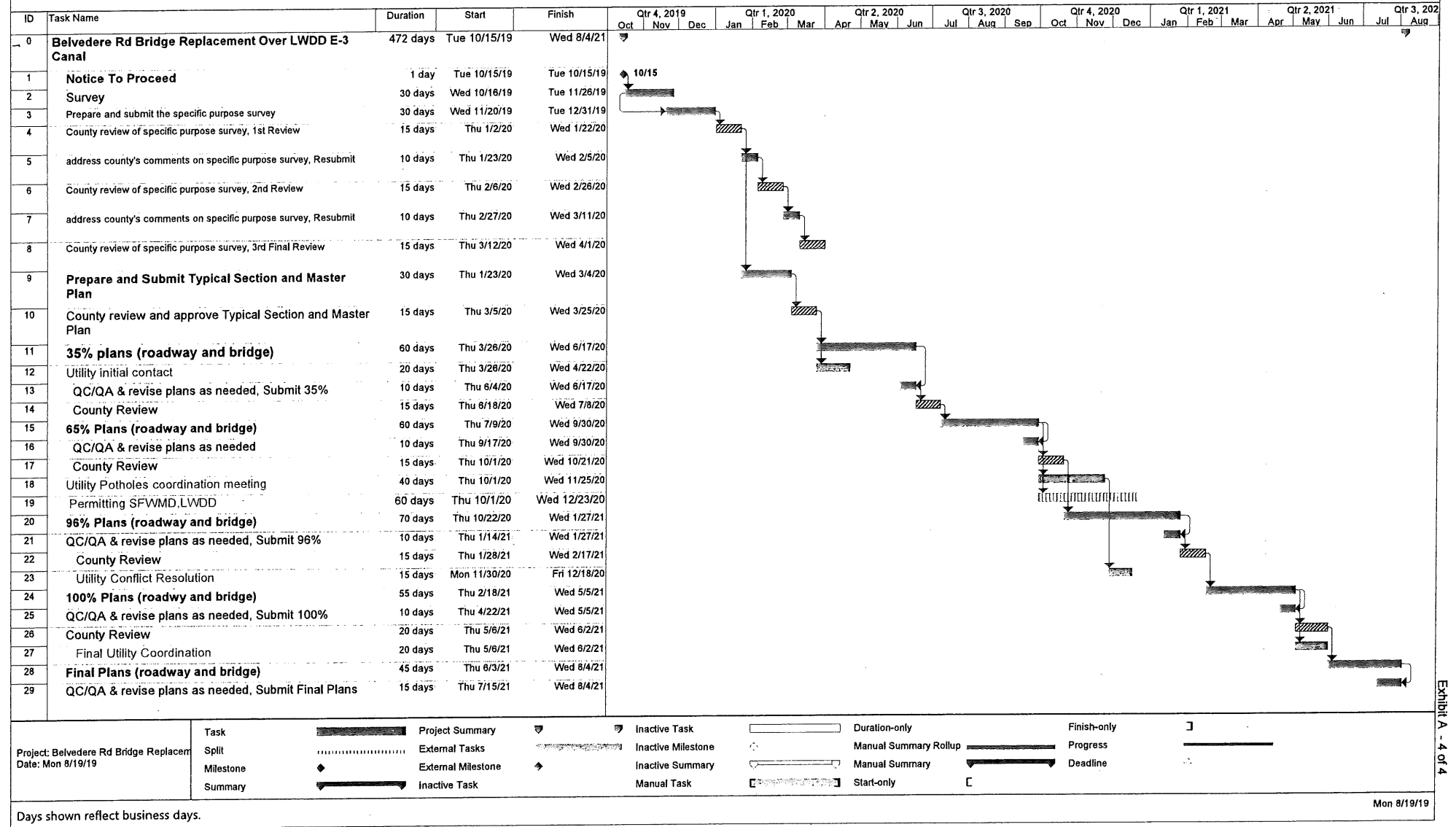
C. Optional Services**1. Post Design Services:**

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

2. Post Design Services:

Stantec will provide the SUE needed for the project. See scope and fee proposal for SUE services.

Belvedere Rd Bridge Replacement over LWDD E-3 Canal County proj. no. 2018801



PROPOSED UNLOADED RATES AND MULTIPLIER CALCULATION - PRIME CONSULTANT

Name of Project: Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements
 County: Palm Beach
 County Project Number: 2018801
 FAP No.: NA

Consultant Name: Stantec
 Consultant No.: TBD
 Date: 8/19/2019
 Estimator: Mohit 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
		\$67.00 ✓	\$62.28 ✓	\$50.92 ✓	\$32.78 ✓	\$38.24 ✓			
6a. Drainage Analysis (Bridge Hydraulics and scour)	100 ✓	11 ✓	16 ✓	24 ✓	20 ✓	29 ✓	100	\$4,720.12	\$47.20
6b. Drainage Plans (Bridge Hydraulics Plan Sheet)	24 ✓	4 ✓	4 ✓	6 ✓	4 ✓	6 ✓	24	\$1,183.20	\$49.30
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	137 ✓	27 ✓	21 ✓	33 ✓	27 ✓	29 ✓	137	\$6,791.26	\$49.57
12. Structures - Short Span Concrete Bridge	648 ✓	78 ✓	110 ✓	149 ✓	136 ✓	175 ✓	648	\$30,813.96	\$47.55
17. Structures - Retaining Walls	92 ✓	10 ✓	15 ✓	22 ✓	19 ✓	26 ✓	92	\$4,341.50	\$47.19
20. Signing & Pavement Marking Plans	63 ✓	13 ✓	9 ✓	15 ✓	13 ✓	13 ✓	63	\$3,118.58	\$49.50
Total Staff Hours	1,064 ✓	143 ✓	175 ✓	249 ✓	219 ✓	278 ✓	1,064	\$50,968.62 ✓	\$47.90
Total Staff Cost		\$9,581.00 ✓	\$10,899.00 ✓	\$12,679.08 ✓	\$7,178.82 ✓	\$10,630.72 ✓			

Check = \$50,968.62

2.97 Multiplier

SALARY RELATED COSTS:		\$50,968.62 ✓
OVERHEAD:	165.03% ✓	\$84,113.51 ✓
OPERATING MARGIN:	12.00% ✓	\$16,209.86 ✓
FCCM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00

Basic Services Estimated Fee (Stantec):	\$151,291.99 ✓
Basic Services Estimated Fee (HSQ):	\$68,419.60 ✓
BASIC SERVICES ESTIMATED FEE:	\$219,711.59

Reimbursable Services:	
Stantec Reimbursable - Copy Services & Permit Fees	\$15,873.00 ✓
Subconsultant: HSQ Surveying Services (Reimbursable)	\$38,993.97 ✓
Subconsultant: TSF Reimbursable Geotech Bridge Services	\$23,158.00 ✓
Subconsultant: TSF Reimbursable Geotech Rdwy Services	\$14,830.00
REIMBURSABLE SERVICES ESTIMATED FEE:	\$92,854.97

Tierra South Florida (TSF)
 Tierra South Florida (TSF)

ESTIMATED FEE SUBTOTAL:		\$312,566.56
Optional Services: Stantec - Post Design Services	40 hrs	\$6,661.12 ✓
Optional Services: HSQ - Post Design Services	20 hrs	\$2,721.88 ✓
Optional Stantec: SUE Services		\$17,342.15 ✓
GRAND TOTAL ESTIMATED FEE:		\$339,291.71

Exhibit B - 1 of 41

Project : Belvedere Road over LWDD E-3 (Bridge Nos.: 934205 and 934206) Canal Bridge Replacements

Date : April 23, 2019

Subject : Task Classification Distribution

Post Design

Task No.	Project Manager	Senior Engineer	Project Engineer	Engineer Intern	Designer	Total
	\$ 67.00 ✓	\$ 62.28 ✓	\$ 50.92 ✓	\$ 32.78 ✓	\$ 38.24 ✓	
Post Design	12	12	8	4	4	40
Total	12	12	8	4	4	40
Subtotal	\$ 804.00 ✓	\$ 747.36 ✓	\$ 407.36 ✓	\$ 131.12 ✓	\$ 152.96 ✓	\$ 2,242.80 ✓
Multiplier	2.97	2.97	2.97	2.97	2.97	2.97
Total Fee	\$ 2,387.88 ✓	\$ 2,219.66 ✓	\$ 1,209.86 ✓	\$ 389.43 ✓	\$ 454.29 ✓	\$ 6,661.12 ✓

Estimator: Stantec

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements

2018801

Representing	Print Name	Signature / Date
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NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.14	Bridge Hydraulic Report	EA	1	100	100	Bridge Hyd Report for single main bridge, replacement in kind, non-tidal crossing, including scour analysis. Estimated hours are significantly less than FDOT Guidelines.
Drainage Analysis Technical Subtotal					100	
6a. Drainage Analysis Total					100	

Carries to 6.19

Carries to Tab 3

Estimator: Stantec

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements

2018801

Representing	Print Name	Signature / Date
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NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	1	24	24 ✓	Bridge Hydraulics and Scour Recommendation Sheets
6. Drainage Plans Total						24	

Estimator: Mohit Soni
 Project Number:

over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements
 2018801

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
General Drawings											
9.1	Key Sheet and Index of Drawings	Sheet	1	12	1	12	Prepare Key Sheet, Index of All Drawings, Digital Signature Sheet				
9.3	General Notes and Bid Item Notes	Sheet	1	24	1	24	General Notes, Bid Item Notes, Structural Notes, Prestressed Slab Unit Notes, Shop Drawing Notes				
9.4	Miscellaneous Common Details	Sheet	1	24	1	24	1 - Sheet, Class 5 Finish, Expansion Joint				
9.5	Incorporate Report of Core Borings	Sheet	1	1	1	1	Incorporate Geotech Borings into Plans				
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	12		12	Assemble bridge quantities into Plan Summary Boxes, summarize totals and finalize forms, create index				
9.8	Cost Estimate	LS	1	16		16	Preliminary Cost Estimate for the bridge as well as the retaining walls/Post and Panel Wall System				
Structures - Summary and Miscellaneous Tasks and Drawings Subtotal					4	93					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	648	0	0	648	0	0	0	0		
Structures Technical Subtotal		740	0	0	648	0	0	0	0	92	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	36	36	Meetings are listed below					
Structures Nontechnical Subtotal					44						
9. Structures - Summary and Miscellaneous Tasks and Drawings Nontechnical and Coordination Total					137						

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Report Comment Review	EA	1	0	0		0
Regulatory Agency	EA	1	4	4	Meeting with LWDD	0
Utility Companies	EA	5	4	20	Utility Coordination Meetings including meeting with County utilities	0
Subtotal Technical Meetings				24		0
Phase Review Meetings	EA	3	4	12	35%, 65%, 96%	--
Total Meetings				36	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 9.11

Carries to Tab 3

Estimator: Stantec
 Bridge Identifier (Number or Name):

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements
 2018801

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments	
General Layout Design and Plans								
12.1	Overall Bridge Final Geometry	LS	1	24		24	Determination of final bridge geometry including calculation of vertical and horizontal clearances based on final member sizes and locations, and final project geometry	
12.2	Expansion/Contraction Analysis	EA Unit	1	8		8	Determination of structure and expansion joint movements and expansion joint type	
12.3	General Plan and Elevation	Sheet	1	24	1	24	Development of general plan and elevation sheet.	
12.4	Construction Staging	Sheet	1	24	1	24	Development of the phased construction details. Bridge will be constructed in phased construction (open to traffic.) This will also require the Analysis of the existing bridge in the phased construction including, superstructure, substructure and foundation (see hours in the load rating section)	
12.5	Approach Slab Plan and Details	Sheet	1	24	1	24	detailing a approach slab at both end of the bridge	
12.6	Miscellaneous Details	Sheet	2	24	2	48	utility hanger details, conduit details, special existing bridge demolition details, expansion joint details, slope protection, bearing pad design, anchorage detail, barrier reinforcing connecting to sidewalk detail, sidewalk joint detail, closure pour detail. Also includes details of the sheet pilewall between the piles at the abutment	
End Bent Design and Plans								
12.7	End Bent Geometry	EA End Bent	2	20		40	Endbent 1 & 2 Geometry including bearing elevations, pile layout cut-offs, and bearing pad locations	
12.8	End Bent Structural Design	EA Design	1	24		24	Design of bent cap and reinforcement including bar bending details, quantities, and development of pile cap interface	
12.9	End Bent Plan and Elevation	Sheet	1	24	1	24	Development of End Bent Plan and Elevation	
12.10	End Bent Details	Sheet	2	18	2	36	Develop Bent cap sections, pile/shaft/cap connection details, wingwall details	
Miscellaneous Substructure Design and Plans								
12.16	Foundation Layout	Sheet	1	24	1	24	Develop foundation layout and notes. Installation table information from geotechnical input.	
Miscellaneous Superstructure Design and Plans								
12.17	Finish Grade Elevation Calculation	LS	1	32		32	Development of top of deck and approach slab finish grade elevations. (w/ Georgia Skew or geopak)	
12.18	Finish Grade Elevations	Sheet	1	20	1	20	Provide cross-sections, schematic plan, Finish Grade Elevations table	
Prestressed Slab Unit Bridges								
12.22	Prestressed Slab Unit Design	EA Design	2	32		64	Design of each unique prestressed slab unit and reinforcement including bar bending details, slab camber/deflection diagram, post-tensioning, and barrier interface. Anticipating two unique design (interior and exterior units)	
12.23	Prestressed Slab Unit Layout	Sheet	1	24	1	24	Plan view showing arrangement of prestress slab units and spacing for transverse post-tensioning (PT)	
12.24	Prestressed Slab Unit Details and Schedule	Sheet	1	32	1	32	Details of prestressed slab units showing prestressing information, reinforcement, and post-tensioning blackout details.	
12.26	Superstructure Sections and Details	Sheet	2	24	2	48	Cross-sections, including keyway and diaphragm details, sidewalk details, and barrier details, slab deflection details	
Reinforcing Bar List								
12.27	Preparation of Reinforcing Bar List	Sheet	1	8	1	8	Develop rebar table	
Load Rating								
12.28	Load Ratings	EA Unit	3	40		120	Develop Bridge Analysis of superstructure and substructure/foundation (Three times). 1st Load rating: (PHASE 1: demolition of the portion of the existing bridge and shift the traffic on to the remaining portion of the existing bridge) Load rate the phased bridge (existing bridge) Since the portion of the existing bridge will be open to traffic during construction. 2nd Load Rating: (PHASE 2: Move the traffic from the existing bridge to the newly constructed portion of the partial bridge prior to demolition of the existing bridge) Load Rate the portion of new bridge where the traffic will be shifted from the existing bridge. 3rd Load Rating: (PHASE 3: Finish the construction of the remaining portion of the new bridge and place the traffic on the new bridge in its final configuration). This will be the Load Rating of the bridge in its final condition.	
12. Structures - Short Span Concrete Bridge Total						15	648	

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Requirements							
17.2	Horizontal Wall Geometry	Per Wall	1	6		6	Determine begin and end wall stations and offsets, and stations and offsets of all horizontal changes. Straight walls and alignment. Include in the plan sheets
Permanent Proprietary Walls							
17.3	Vertical Wall Geometry	Per Wall	1	12		12	
17.4	Semi-Standard Drawings	Sheet	1	8	1	8	
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	1	8	1	8	
17.6	Details	Sheet	1	8	1	8	
Temporary Proprietary Walls							
Other Retaining Walls and Bulkheads							
17.17	Design	EA Design	1	12		12	Design of wall to determine member sizes , embedment depths, etc. for the sheet pile wall
17.18	Vertical Wall Geometry	EA Wall	1	6		6	Calculate elevations of top of wall, proposed and existing ground lines, and bottom of wall elevations. temporary walls.
17.19	General Notes, Tables and Misc. Details	Sheet	1	8	1	8	Prepare General Note Sheet
17.20	Wall Plan and Elevations	Sheet	1	8	1	8	Prepare wall plan and elevation sheets.
17.21	Details	Sheet	1	16	1	16	Sections thru wall coping details.
17. Structures - Retaining Walls Total					6	92	

Estimator: Stantec

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements
2018801

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	6	1	6	
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	15	3	45	
Signing and Pavement Marking Plans Technical Subtotal						6	63	

**OPTIONAL SERVICES
SUE Tasks**

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

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

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements
Palm Beach
2018801
NA

Consultant Name: Stantec
Consultant No.: 215880087
Date:
Estimator: P. Meeds

Staff Classification	Total Staff Hours From "SH Summary Firm"	Sr. Surveyor & Mapper	PSM	CADD TECH	Staff Classification	Staff Classification	Staff Classification	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$51.00 ✓	\$45.00 ✓	\$27.00 ✓	\$0.00	\$0.00	\$0.00			
27. Survey (Field & Office Support)	41	3	16	22	0	0	0	41	\$1,467.00	\$35.78
Total Staff Hours	41	3	16	22	0	0	0	41		
Total Staff Cost		\$153.00 ✓	\$720.00 ✓	\$594.00 ✓	\$0.00	\$0.00	\$0.00		\$1,467.00	\$35.78

Check = \$1,467.00

\$1,467.00 ✓

OVERHEAD:

165.03%

\$2,420.99 ✓

OPERATING MARGIN:

(% of Salary)

12.00%

\$466.56 ✓

Stantec SUBTOTAL ESTIMATED FEE: Office SUE Work

\$4,354.55 ✓

Stantec SUE Field Work (Optional Services):

Crew rates include equipment)

2 - Person Crew (Utility Designating Work)

40 hours

\$116.86 /hour

\$4,674.40 ✓

Crew rates include equipment)

3 - Person Crew (Utility Locates and Vacuum Excavation)

40 hours

\$167.83 /hour

\$6,713.20 ✓

(for work requiring less than one full d: Re-Mobilization Fee

4 occurrences

\$400.00 /each

\$1,600.00 ✓

SUBTOTAL; Stantec SUE Field Work (Optional Services)

\$12,987.60 ✓

TOTAL: Stantec SUE Optional Services

\$17,342.15 ✓

27. Survey
OPTIONAL SERVICES SUE WORK

Estimator: Stantec

Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements

2018801

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.1	Horizontal Project Control (HPC)									FOR S.U.E. LOCATES Utilize Project Control provided by HSQ and set any additional points as needed. The horizontal values based upon NAD83/1990 adjustment; U.S. Survey Feet.
	2-Lane Roadway	Mile	1.00	0.25	0.25	1.00	0.250	2.00	0.50	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									FOR S.U.E. LOCATES Utilize Project Control provided by HSQ and set any additional points as needed. The vertical values based upon NAVD 88 elevations.
	2-Lane Roadway	Mile	1.00	0.25	0.25	1.00	0.250	2.00	0.50	
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.3	Alignment and Existing R/W Lines									N/A
		Mile			0.00		0.00		0.00	
27.4	Aerial Targets			Units/Day						N/A
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
27.5	Reference Points	"A"		Units/Day						N/A
	2-Lane Roadway	EA			0.00		0.00		0.00	
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
	Reference Points	"B"		Units/Day						N/A
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	
27.6	Topography/DTM (3D)									N/A
		Mile			0.00		0.00		0.00	
27.7	Planimetric (2D)									N/A

.5 .3

27. Survey
OPTIONAL SERVICES SUE WORK

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.7	Planimetric (2D)									N/A
		Mile			0.00		0.00		0.00	
27.8	Roadway Cross-Sections/Profiles									N/A
		Mile			0.00		0.00		0.00	
27.9	Side Street Surveys									N/A
27.10	Underground Utilities									<p align="center">S.U.E. LOCATES</p> <p>Per the request from the EOR in conjunction with the current design plans, there are a total estimated of 25 test holes. Designate utilities in prescribed test hole locations and perform locates at Fifteen (15) for Roadway and drainage, and Ten (10) locations for bridge widening. Utilize localized GPS/RTK Base/Rover or conventional method to obtain the required utility information. Deliverables include VVHA sheets, spreadsheet with N,E,Z, and VVH sheet (Vac Excavation Records).</p>
	Designates	Mile/Site	0.75	2.00	1.5	4.00	6.0	3.00	4.5	
	Locates	Point	25	0.2	5.0	1.00	5.0	3.00	15.0	
	Survey	LS	25%	6.5000	1.625	1.00	1.6	2.00	3.3	
27.11	Outfall Survey									N/A
		Mile			0.00		0.00		0.00	
27.12	Drainage Survey			Units/Day						N/A
		EA			0.00		0.00		0.00	
27.13	Bridge Survey									N/A
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey									N/A
		EA			0.00		0.00		0.00	
27.15	Pond Site Survey									N/A
		EA			0.00		0.00		0.00	
27.16	Mitigation Survey									N/A
		Mile			0.00		0.00		0.00	
27.17	Jurisdiction Line Survey									N/A
		Mile			0.00		0.00		0.00	
27.18	Geotechnical Support			Units/Day						N/A

8.125 12.6

27. Survey
OPTIONAL SERVICES SUE WORK

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
		EA			0.00		0.00		0.00	
27.19	Sectional / Grant Survey									
		Corner			0.00		0.00		0.00	N/A
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									
		Block			0.00		0.00		0.00	N/A
27.21	Maintained R/W									
		Mile			0.00		0.00		0.00	N/A
27.22	Boundary Survey									
		EA			0.00		0.00		0.00	N/A
27.23	Water Boundary Survey									
		EA			0.00		0.00		0.00	N/A
27.24	R/W Staking / R/W Line									
		EA			0.00		0.00		0.00	N/A
		Mile			0.00		0.00		0.00	
27.25	R/W Monumentation									
		Point			0.00		0.00		0.00	N/A
27.26	Line Cutting									
		Mile			0.00					N/A
27.27	Work Zone Safety									FOR S.U.E. LOCATES Set safety signs along Belvedere Rd., Pineway Dr., Park Hill Dr. and possibly at other side streets. Utilize the Design Standards (Topic No.625-010-003) and the FDOT MUTCD when performing SUE locates within the work zone areas.
27.28	Miscellaneous Surveys									
					0.00		0.00		0.00	
Survey Subtotal				Crew Days	9.75	Field Support Hours	13	Office Support Hours	24	
27.29	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
				10	0		0		0	
27.30	Document Research	Units								N/A
									0	

27. Survey
OPTIONAL SERVICES SUE WORK

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.31	Field Reviews	Units								PSM to walk and check the SUE data before submitting final delivery files.
			4.00						4	
27.32	Technical Meetings	LS								N/A
			0.00						0	
27.33	Quality Assurance / Quality Control	LS						0%	0	
27.34	Supervision	LS						0%	0	
27.35	Coordination	LS						0%	0	
27. Survey Total				Crew Days	9.75	Field Support Hours	13 ✓	Office Support Hours	28 ✓	

SPLS =

PLS =

Office Support =

Total Hours =

41 ✓

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0		0
Baseline Approval Review	EA	0	0	0		0
Network Control Review	EA	0	0	0		0
Vertical Control Review	EA	0	0	0		0
Local Governments (cities, counties)	EA	0	0	0		0
Final Submittal Review	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				0	Subtotal PM Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	**	--
Phase Review Meetings	EA	0	0	0	**	--
Total Meetings				0	Total PM Mtgs (carries to Tab 3)	0

Carries to 27.32

Carries to Tab 3

** Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3

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

Date: 08/19/2019 ✓

Project Description: Belvedere Road over LWDD E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements
Estimator: mohit soni

PBC Project No. 2018801

Permit Fees (estimated)

SFWMD	\$ 3,500.00 ✓	for SFWMD Permit Modification
LWDD	\$ 4,800.00 ✓	for LWDD, first discharge control str. (\$3,000) + 1 additional control str. (\$1,800)
	\$ 5,148.00 ✓	for LWDD, ROW fee
	\$ 1,935.00 ✓	for LWDD, ITS utility at E-3 bridge crossing
USACOE	n/a	

PERMIT TOTALS: \$ 15,383.00 ✓

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):	40		0	200 ✓			
Phase I Plans(5 sets):	70		0	350 ✓			
Phase II Plans(5 sets):	70		0	350 ✓			
Phase III Plans(5 sets):	70		0	350 ✓			
Phase IV Plans(5 sets):	70		0	350 ✓			
Final Plans(5 sets):	70		0	350 ✓			
Utility Contacts(13 sets):	0		0	0			
S&PM Included in RDWY	0		0	0			
Working Copies (20%):	0		0	390 ✓			
R/W MAPPING							
30% Maps	0		0	0			
60% Maps	0		0	0			
90% Maps	0		0	0			
100% Maps	0		0	0			
WORKING COPIES				0			
UNIT TOTALS:				2340 ✓			
UNIT COSTS:			\$1.00	\$0.20 ✓			
TOTAL COSTS:			\$0.00	\$468.00 ✓			
ENG REPORTS							
Public Involve Handouts	0		0	0			
Pavement Design Report	0		0	0			
Typical Section/Variances	0		0	0			
RRR Report:	0		0	0			
Drainage Report (8 sets)	0		0	0			
Comp. Book (3 sets)	40		120	0 ✓			
Design Documenation (5 sets)	20		100	0 ✓			
	0		0	0			
ENVIR REPORTS							
Permit Applications (4):	0		0	0			
Permit Sketches (2):	0		0	0			
Contamination Report:	0		0	0			
Biological Assess:	0		0	0			
Others:	0		0	0			
UNIT TOTALS:				220 ✓			
UNIT COSTS:			\$0.10	\$0.20 ✓			
TOTAL COSTS:			\$22.00	\$0.00 ✓			
REPRODUCTION TOTALS:							\$490.00 ✓

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
Facility Rental:	0	days	\$0.00	per day	=	\$0.00
Court Report:	0	hrs	\$0.00	per hour	=	\$0.00

TOTAL MISC. PUBLIC INVOLVEMENT COSTS: \$0.00

TOTAL OUT-OF-POCKET EXPENSES: \$15,873.00 ✓

Greater than 300 mgm.	
Noticed General Water Use Permit.	\$3,200
Applications filed electronically at www.sfwmd.gov/ePermitting .	
Application filed by other means.	\$100
Aquifer Storage and Recovery: cost added to the applicable use type listed above.	\$350
Permit Transfer to Another Entity Pursuant to Rules 40E-0.107 and 40E-2.351, F.A.C.	\$1,000
Letter Modification.	\$300
General Permit by Rule.	no fee
	no fee

(2) Water Well Construction Permit Application processing fees are in the following table:

TABLE 40E-1.607(2)
 PERMIT APPLICATION PROCESSING FEES FOR
 WATER WELL CONSTRUCTION PERMIT APPLICATIONS
 REVIEWED PURSUANT TO CHAPTER 40E-3, F.A.C.

Category	Amount
Water Well Construction.	\$100
Water Well Abandonment.	no fee

(3)(a) Environmental Resource Permit Application processing fees are in the following table:

TABLE 40E-1.607(3)(a)
 PERMIT APPLICATION PROCESSING FEES FOR
 ENVIRONMENTAL RESOURCE PERMIT APPLICATIONS
 REVIEWED PURSUANT TO CHAPTER 62-330, F.A.C.

For the purposes of determining the applicable processing fee, "project area" means the total area wherein works occur as part of an activity requiring a permit under Chapter 373, Part IV, F.S., including all portions of the stormwater management system serving the project area.

1. Use of the reviewing agency's electronic self-certification system.	\$0
2. Verification of exemption under Section 373.406 or 403.813(1), F.S. or under Rules 62-330.050 through 62-33.051, F.A.C.	\$100
3. Verification of qualification to use a General Permit.	\$250
4. Individual or Conceptual Approval Permits, excluding Permits for a Mitigation Bank.	
a. New applications – the processing fee for a new permit application shall be as determined from the categories below:	
(I) Total project area of less than 10 acres and no activities in, on or over wetlands or other surface waters, except where exempt under paragraphs 62-330.051(9)(a) through (c), F.A.C.	\$2,000
(II) Project exceeds any of the thresholds in sub-sub-subparagraphs (3)(a)4.a.(I), above involves a total project area of less than 10 acres, less than 1 acre of works (i.e. dredging, filling, construction, or alteration) in, on or over wetlands and other surface waters, AND less than 10 new boat slips.	\$3,500 ✓
(III) Project exceeds any of the thresholds in sub-sub-subparagraph (3)(a)4.a.(II), above, but involves a total project area of less and 40 acres, less than 3 acres of works in, on or over wetlands and other surface waters, AND less than 30 new boat slips.	\$5,500
(IV) Project exceeds any of the thresholds in sub-sub-subparagraph (3)(a)4.a.(III), above, but involves a total project area of less than 100 acres, less than 10 acres of works in, on or over wetlands and other surface waters, AND less than 50 new boats ships.	\$7,500
(V) Project exceeds any of the thresholds in sub-sub-subparagraph (3)(a)4.a.(IV), above, but involves a total project area of less than 640 acres, AND less than 50 acres of works in, on or over wetlands and other surface waters.	\$13,125
(VI) Project exceeds any of the thresholds sub-sub-subparagraph (3)(a)4.a.(V), above.	\$25,000

**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>
Drainage Permits	
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]	
Roadway Projects	
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.		
Bridge Width = 88ft ; Bridge Length = 90ft; Total SF = 7920Ft ² Total Estimated ROW Permit Fees = 7920* (\$0.25/SF + \$0.4/SF) = \$5148.00		
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]		

**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>
Utility Lines Running (Crossing) Perpendicular To Canal Channel [REF: CHAPTER 3, SECTION 3.11]		
Aerial Crossing (Pile Supported)	\$ 16.00 per L.F. of utility line within canal right-of-way (min. \$ 300.00)	\$ 24.00 per L.F. of utility line within canal right-of-way (min. \$ 450.00)
Attached-to-Bridge Crossing	\$ 8.50 per L.F. of utility line within canal right-of-way (min. \$ 300.00)	\$ 13.00 per L.F. of utility line within canal right-of-way (min. \$ 450.00)
Bridge Length = 90ft; Total Estimated ROW Permit Fees = 90*(\$8.5/FT+\$13.00/FT) = \$1935.00 ✓		
Pole-to-Pole Crossing	\$ 8.00 per L.F. of utility line within canal right-of-way (min. \$ 300.00)	\$ 12.00 per L.F. of utility line within canal right-of-way (min. \$ 450.00)
Subaqueous Crossing (Directional Bore Or Jack and Bore)	\$ 8.50 per L.F. of utility line within canal right-of-way (min. \$ 300.00)	\$ 13.00 per L.F. of utility line within canal right-of-way (min. \$ 450.00)



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**Belvedere Rd Over LWDD E-3 Canal (Bridge No. 934205 and 934206) Bridge Replacement
COUNTY PROJECT NO. 2018801**

SCOPE OF SERVICES

DESCRIPTION

Services will include roadway plans and drainage plans in accordance with Palm Beach County Thoroughfare Roadway Design Procedures, 2006.

BASIC SERVICES

The basic services will be limited to the minimum improvements needed to replace the bridge and have it located centered within 110' right of way. The horizontal geometry of the road will be maintained by carrying the existing through lanes over the new bridge and striping out the extra bridge area. It was estimated that the needed work will be accomplished within approximately 1000' centered at the bridge given the fact that the vertical clearance of the bridge may need minor adjustments.

Roadway Master plans and Typical section.

A master plan for the ultimate 5-lane from Caroline Avenue to Trailaway Lane will be prepared along with the typical section. The scope assumes two master plan submittals; the initial submittal and the final submittal that will address comments made on the initial submittal. Transition from the ultimate 5-lane to the existing 4-lane will be done within the limits of the master plan as mentioned above.

Roadway design

Roadway design includes minor vertical geometry related to the possibility of minor bridge vertical clearance adjustments, however, the existing alignment at the bridge will be maintained. Roadway design also includes creating cross sections, swale regrading, quantity computation, design documentation, field reviews and construction cost estimates.

The roadway typical section will be based on a modified 5 Lane Configuration. It will be (2) 11' through lanes in each direction, (1) TWLT lane with 7' bike lanes and 8' sidewalks on both sides with design speed = 40mph and posted speed = 30 mph.

Roadway Plans preparation

Plans with aerial background will be prepared in accordance with the approved Typical Section, Construction plans will be prepared on 11" x 17" at 1" = 40' scale for the horizontal and 1" = 4' for the vertical. The anticipated plan sheets are:

- Key Sheet
- General notes
- Typical sections
- Summary of quantities.
- Reference points and Project Network Control sheet
- Roadway Plans

Belvedere Road Bridge Replacement over LWDD E-3 Canal
Scope of Services



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- Roadway Profile Sheets
- Cross sections

Plan submittals will be at Master Plan, 35%, 65%, 96%, 100% and final. 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.

Drainage design

The existing drainage will be supplemented with additional drainage inlets/swale modification to accommodate the proposed improvement. Prepare drainage design memorandum.

Drainage Plans

No drainage structures nor summary of drainage structures will be required; however, drainage inlets information can be shown on the roadway plans. Miscellaneous details i.e., swale modified section and control structure will be provided as needed.

Permitting

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

- Roadway Drainage Permit from LWDD
- Right of way occupancy permit for the bridge from LWDD and ITS conduits
- SFWMD (ERP)
- USACE

Signing and pavement marking plans

Signing and pavement marking Plans will be 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.

Utility Coordination

Services will include the following:

- HSQ will 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 utility owners
- Attend utility meetings and prepare utility coordination meeting minutes.
- Coordinate with utility owners to resolve utility conflicts.
- Prepare utility conflict matrix
- Utility adjustment sheet in the vicinity of the bridge area (one sheet)

Belvedere Road Bridge Replacement over LWDD E-3 Canal
Scope of Services



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Belvedere Rd over LWDD E-3 Canal (Bridge No. 934205 and 934206) Bridge Replacement
Land Survey Scope of Services
June 15, 2018 (revised 9/12/2018)

PROJECT LIMITS

Belvedere Road from Caroline Avenue east to Trailway Lane inclusive (1000' east and west of the center of the L.W.D.D. E-3 Canal). Estimated length is approximately 2,070 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, 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 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 and platted centerlines. Identify the existing control recovered and provide ties to the project baseline.
6. Locate above ground features (including walks, utilities, signage, striping, etc.) within the right-of-ways and 25' north with elevations at 100' intervals from the south right-of-way of L.W.D.D. L-3 Canal, north to 25' north of the north R/W line of Belvedere Road from the west side of Caroline Avenue east to the east side of Trailway Lane, obtaining break lines and high and low points for the roadway, pedestrian paths, and bridge deck.
7. Cross-section the right-of-ways at 100' intervals extending as noted above.
8. Cross section the E-3 canal to 100 feet north of the north right-of-way and 100 feet south of the south right-of-way to locate the canal slopes, mud line bottom, embankment, and rip rap.
9. Detail the bridge wing walls, bridge and substructure caps, and locate bridge low members to reveal clearances.
10. Locate trees with size and type and hedgerows (with width) within the right-of-ways, excluding trees south of the L-3 canal.
11. Detail drainage structures and outfalls. Obtain invert elevations with pipe material, size and direction.
12. Prepare 6 cross sections for the E-3 canal for L.W.D.D., and 4 cross sections of the L-3 canal.

Belvedere Road Bridge Replacement over LWDD E-3 Canal
Scope of Services



HSQ GROUP, INC.
Engineers • Planners • Surveyors

13. Prepare a DTM (digital terrain model) of the site, not including the bridge deck.
14. Re-establish the historic baseline for Belvedere Road. Set baseline horizontal control points (begin/end, PC's, PT's). 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 11"x17" sheets at a scale of 1"=40',
 - 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,
 - 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. Obtain pot hole locations performed by others.
19. Prepare up to 10 Temporary Construction Easement Sketch and Legal Descriptions for recordation.
20. Obtain F.F. Elevations for the properties north of the north right of way line within 25'.

SURVEY DELIVERABLES

- 1- Map of right-of-way and easement documents (11"x17" sheets, 1"=40' scale).
- 2- Specific Purpose Survey (11"x17" sheets, 1"=40' 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, including pot hole locations.
- 6- A DTM in XML format for Microstation.
- 7- Cross section sheets for LWDD right-of-way (in dwg and pdf).
- 8- Temporary Construction Easement 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.

Belvedere Road Bridge Replacement over LWDD E-3 Canal
Scope of Services

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: BASIC SVCS: Belvedere Rd over LWDD E-3 Canal (Bridge No. 934205 and 934206) Bridge Replacement HSQ GROUP, INC
 County: PBC
 FPN: 2018801
 FAP No.: Nour Shehadeh

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
		\$56.50 ✓	\$42.50 ✓	\$30.75			
4. Roadway Analysis	179.00	27.00	116.00	36.00	179.00	\$7,562.50	\$42.25
5. Roadway Plans	190.00	38.00	114.00	38.00	190.00	\$8,160.50	\$42.95
6a. Drainage Analysis	34.00	5.10	22.10	6.80	34.00	\$1,436.50	\$42.25
6b. Drainage Plans	8.00	1.20	5.20	1.60	8.00	\$338.00	\$42.25
7. Utilities	88.00	4.40	13.20	70.40	88.00	\$2,974.40	\$33.80
8. Environmental Permits, Compliance & Clearances	96.00	48.00	19.20	28.80	96.00	\$4,413.60	\$45.98
Total Staff Hours	595.00 ✓	123.70	289.70	181.60	595.00		
Total Staff Cost		\$6,989.05 ✓	\$12,312.25 ✓	\$5,584.20		\$24,885.50 ✓	\$41.82

Check = \$24,885.50

SALARY RELATED COSTS: \$24,885.50 ✓
 OVERHEAD: 145.48% \$36,203.43 ✓
 OPERATING MARGIN: 12% \$7,330.67 ✓
SUBTOTAL ESTIMATED FEE: \$68,419.60 ✓

Surveying services \$38,993.97 ✓
 Reimbursables

TOTAL BASIC SERVICES **\$107,413.57** ✓
 TOTAL OPTIONAL SERVICES **\$2,721.88** ✓
TOTAL ALL SERVICES \$110,135.45 ✓

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	4	4	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	120	120	the vertical geometry is for the limit of work to tie east and west of the bridge
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Traffic Control Analysis	LS	1	0	0	
4.11	Master TCP Design Files	LS	1	0	0	
4.12	Design Variations and Exceptions	LS	1	0	0	
4.13	Design Report	LS	1	14	14	summarize design criteria used and decision made in a design memorandum
4.14	Quantities	LS	1	12	12	
4.15	Cost Estimate	LS	1	9	9	3 cost estimates including, roadway, drainage, SM
4.16	Technical Special Provisions	LS	1	0	0	
4.17	Other Roadway Analyses	LS	1	0	0	
Roadway Analysis Technical Subtotal					159 ✓	
4.18	Field Reviews	LS	2	4	8	2 people at 4 hrs each

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.19	Monitor Existing Structures	LS	1	0	0	
4.20	Technical Meetings	LS	1	12	12	Meetings are listed below
Roadway Analysis Nontechnical Subtotal					20	
4.24	Coordination	LS	%	0%	0	
4. Roadway Analysis Total					179 ✓	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0		0
Pavement	EA	0	0	0		0
Access Management	EA	0	0	0		0
15% Line and Grade	EA	0	0	0		0
Driveways	EA	0	0	0		0
Local Governments (cities, counties, MPO)	EA	0	0	0		0
Work Zone Traffic Control	EA	0	0	0		0
30/60/90/100% Comment Review Meetings	EA	3	4	12		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				12	Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>	--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>	--
Total Meetings				12	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	4	4	
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	6	6	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	1	8	8	
5.3.2	Typical Section Details		EA	1	4	4	
5.4	General Notes/Pay Item Notes		Sheet	1	6	6	
5.5	Summary of Quantities Sheets		Sheet	0	0	0	
5.6	Project Layout		Sheet	0	0	0	
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet		Sheet	3	20	60	
5.9	Plan Sheet		Sheet	3	18	54	
5.10	Special Profile		Sheet	0	0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.12	Interchange Layout Sheet		Sheet	0	0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.14	Intersection Layout Details		Sheet	0	0	0	
5.15	Special Details		EA	0	0	0	
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	
5.18	Cross Sections		EA	12	3	36	
5.19	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.22	Utility Adjustment Sheets		Sheet	1	12	12	
5.23	Selective Clearing and Grubbing Sheet(s)		Sheet	0	0	0	
5.24	Project Network Control Sheet(s)		Sheet	0	0	0	
5.25	Environmental Detail Sheets		Sheet	0	0	0	
5.26	Utility Verification Sheet(s) (SUE Data)		Sheet	0	0	0	
Roadway Plans Technical Subtotal						190	
5.27	Quality Assurance/Quality Control		LS	%	0%	0	
5.28	Supervision		LS	%	0%	0	
5. Roadway Plans Total						190 ✓	

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.7	Design of Stormwater Management Facility (Roadside Ditch)	EA	1	0	0	
6a.9	Design of Storm Drains	EA	6	3	18	
6a.13	Drainage Design Documentation MEMO	LS	1	16	16	drainge design report for permitting purposes
6a.16	Cost Estimate	LS	1	0	0	
6a. Drainage Analysis Total					34 ✓	

6b. Drainage Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)		Sheet	0	0	0	not included
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Summary of Drainage Structures		Sheet	0	0	0	
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	0	0	0	
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	1	8	8	
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	0	0	0	
6b.10	Retention Pond Cross Sections		EA	0	0	0	
6b.11	Erosion Control Plan Sheet(s)		Sheet	0	0	0	
6b.12	SWPPP Sheet(s)		Sheet	0	0	0	
Drainage Plans Technical Subtotal						8	
6b.13	Quality Assurance/Quality Control		LS	%	3%	0	
6b.14	Supervision		LS	%	3%	0	
6. Drainage Plans Total						8	

Project Activity 7: Utilities

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.3	Make Utility Contacts	LS	1	2	2	
7.10	Review Utility Markups	LS	1	20	20	for all phases
7.11	Utility Coordination/Followup	LS	1	12	12	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.
7.13	Establish a utility dgn file	LS	1	24	24	show markups on a dgn
7.16	Prepare utility conflict matrix	LS	1	12	12	
7.17	Utility coordination meetings	EA	3	6	18	65%+96%+100% (including meeting minutes)
7. Utilities Total					88 ✓	

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
Environmental Permits, Compliances and Clearances						
8.1	Preliminary Project Research	LS	1	8	8	
8.2	Complete and Submit Required LWDD permits	LS	1	40	40	roadway drainage ERP +, bridge and ITS conduits right of way permit
8.3	Complete and Submit Required SFWMD permits	EA	1	20	20	
8.4	Pre application Meetings	EA	2	4	8	
8.5	USACE	EA	1	20	20	
Environmental Permits, Compliance, and Clearances/Reevaluations Technical Subtotal					96	

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: OPT. SVCS.: Belvedere Rd Over LWDD E-3 Canal (Bridge No. 934205 and 934206) Bridge Replacement HSQ GROUP, INC
 County: PBC
 FPN: 2018801
 FAP No.: Nour Shehadeh

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
		\$56.50 ✓	\$42.50 ✓	\$30.75 ✓			
3. Project General and Project Common Tasks	20	10.00	10.00	0.00	20.00	990.00	\$49.50
Total Staff Hours	20	10.00	10.00	0.00	20.00		
Total Staff Cost		\$565.00 ✓	\$425.00 ✓	\$0.00		\$990.00	\$49.50

Check = \$990.00

SALARY RELATED COSTS: \$990.00 ✓
 OVERHEAD: 145.48% \$1,440.25 ✓
 OPERATING MARGIN: 12% \$291.63 ✓

Notes:
 1. This sheet to be used by Subconsultant to calculate its fee.

SUBTOTAL ESTIMATED FEE: \$2,721.88

TOTAL \$2,721.88 ✓

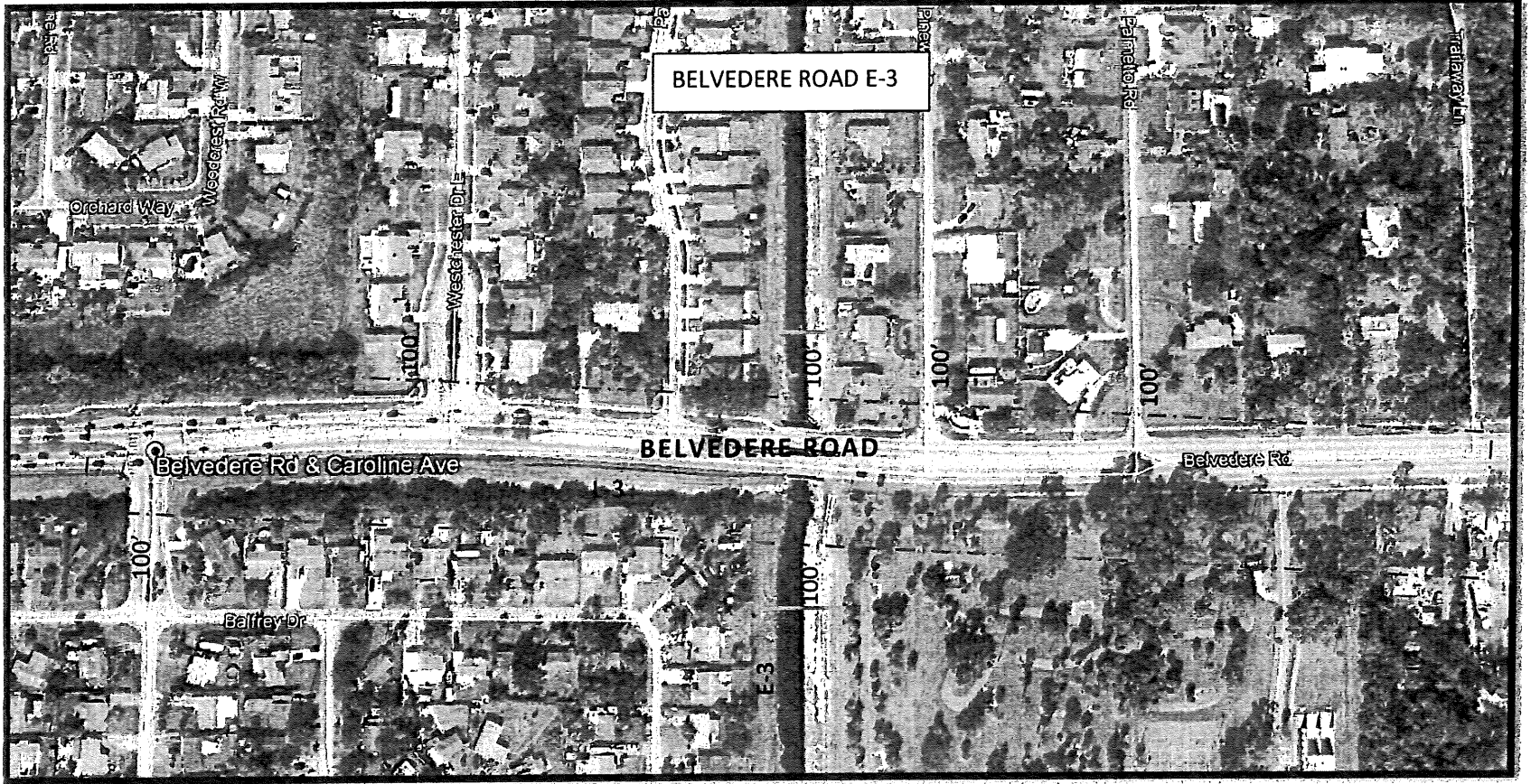
Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	20	20	
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.12	Other Project General Tasks	LS	1	0	0	
3. Project Common and Project General Tasks Total					20	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	0	0	0	
Drainage	EA	0	0	0	
Utilities	EA	0	0	0	
Environmental	EA	0	0	0	
Structures	EA	0	0	0	
Signing & Pavement Marking	EA	0	0	0	
Signalization	EA	0	0	0	
Lighting	EA	0	0	0	
Landscape Architecture	EA	0	0	0	
Survey	EA	0	0	0	
Photogrammetry	EA	0	0	0	
ROW & Mapping	EA	0	0	0	
Terrestrial Mobile LiDAR	EA	0	0	0	
Architecture	EA	0	0	0	
Noise Barriers	EA	0	0	0	
ITS Analysis	EA	0	0	0	
Geotechnical	EA	0	0	0	
Progress Meetings	EA	0	0	0	
Phase Reviews	EA	0	0	0	
Field Reviews	EA	0	0	0	
Total Project Manager Meetings		0		0	Total PM Meeting Hours carries to Task 3.6 above

Notes:

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
2. Do not double count agency meetings between permitting agencies.
3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.





Belvedere Road Over LWDD E-3 Canal (Bridge No. 934205 and 934206) Bridge Replacement
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	128.00	\$ 49.50	8.00 ✓	\$ 55.00	41.00 ✓	\$ 44.25	136.00 ✓	\$ 27.75	313.00	\$ 12,364.25
Total Staff Hours	128.00		8.00		41.00		136.00		313.00	
Total Staff Cost		\$6,336.00 ✓		\$440.00 ✓		\$1,814.25 ✓		\$3,774.00 ✓		\$12,364.25 ✓

HSQ FEE CALCULATIONS

Type of services	Cost by activity	Overhead multiplier	Overhead cost	Subtotal (cost by activity + overhead cost)	Profit (%)	Total
Basic services	\$ 12,364.25	145.48%	\$ 17,987.51	\$ 30,351.76 ✓	12.00%	\$ 33,993.97 ✓
Optional Services	sketch and legal (10 x \$500 = \$5000)					\$ 5,000.00
Reimbursables (basic services)						\$ -
TOTAL						\$ 38,993.97 ✓

Belvedere Road Over LWDD E-3 Canal (Bridge No. 934205 and 934206) Bridge Replacement

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	Survey/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	5	4	
2	Prepare a drawing of the right-of-way and easement documents provided, submit to county.		1	4	8	
3	Collect GPS control points and set control points.	8		1	1	
4	Collect vertical benchmarks, set benchmarks and run closed level loop.	8		1	1	
5	Locate section corners, subdivision corners, and other existing control monument.	8		1	2	
6	Locate above ground features with elevations at 100' intervals, obtaining break lines and high and low break points for the roadway, obtain finish floor elevations for six residences adjoining the R/W.	30		4	32	
7	Cross section 100' intervals.	12		1	8	Very thick Brazilian Pepper on north side west of bridge
8	Cross section E-3 canal extending 100' north and 100' south of road right-of-way. Cross section the L-3 canal.	12		1	4	Very thick Brazilian Pepper on south side west of bridge
9	Detail the bridge wing walls, aerial supports, bridge substructure caps. Bridge low members will be located to reveal clearances.	10		1	8	
10	Locate trees with size and type, except south of the L-3 canal.	8			4	Very thick Brazilian Pepper on north side west of bridge
11	Detail drainage structures and outfalls with pipe sizes materials invert elevations and directions	12		2	8	
12	Prepare L.W.D.D. 6 cross sections for E-3 canal and 4 cross sections for the L-3 canal.		2	4	12	
13	Prepare DTM (digital terrain model)			8	8	AutoCAD and XML
14	Set baseline points and set reference points to the baseline and prepare a reference point sheet.	12		1	4	
15	Prepare Topographic Survey.		3	3	12	
16	Prepare project network control sheet.		1	2	8	
17	Create deliverable Microstation file			1	8	
18	Locate pot hole locations by others	8		1	4	prepare XYZ of locations
TOTAL HOURS		128 ✓	8 ✓	41 ✓	136 ✓	



Revised April 23, 2019
Revised November 26, 2018
Revised September 27, 2018
Revised September 19, 2018
June 18, 2018
August 19, 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
Belvedere Road Over E-3 Canal (Bridge Nos.: 934205 and 934206) Bridge Replacements
Palm Beach County, Florida
PBC Project No. 2018801
TSF Proposal No.: 1806-371

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 June 13, 2018. 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) bridge borings on land to a depth of 100 feet below existing grades. Perform SPT sampling at 2.5-foot interval.
- Perform six (6) auger borings to 5 feet, and six (6) auger borings to a depth of 10 feet. Auger borings will be staggered at 200-foot intervals for about 1,000 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. Pavement core locations to be provided by Stantec.

2765 VISTA PARKWAY, SUITE 10 · WEST PALM BEACH, FLORIDA 33411
(561) 687-8539 · FAX (561) 687-8570
State of Florida Professional Engineers License #28073

- Perform two (2) Bore Hole Permeability (BHP) tests. BHP test 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 sheet pile walls. Assumed sheet pile analysis will be done by the structural engineer.
- Prepare and submit roadway soil survey report which will include pavement core data and BHP test results.
- Prepare and submit geotechnical report for bridge.

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 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

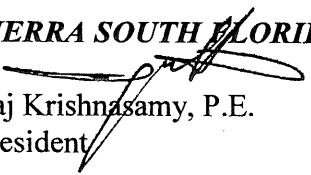
STANTEC
TSF Proposal No. 1806-371

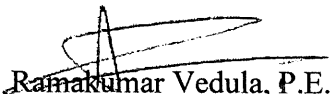
permit approval). The fieldwork will take about 2 to 3 weeks to complete. The written report can be submitted about four to five weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties 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

Attachments: 1. Fee Estimate for Roadway
2. Fee Estimate for Bridge

**Belvedere Road over LWDD E-3 Canal (Bridge Nos.:
934205 and 934206) Bridge Replacements ✓
Palm Beach County, Florida**

Fee Estimate for Geotechnical Study - Bridge

TIERRA SOUTH FLORIDA, INC.

	Unit	# of Units	Unit Price		Total	
I. FIELD INVESTIGATION						
Mobilization of Men and Equipment	Trip	1	\$	350.00	\$	350.00 ✓
Truck-Mounted Equipment						
SPT Borings 0 - 50 ft depth	L.F.	100	\$	12.00	\$	1,200.00 ✓
50 - 100 ft depth	L.F.	100	\$	14.00	\$	1,400.00 ✓
Grout Boreholes 0 - 50 ft depth	L.F.	100	\$	5.50	\$	550.00 ✓
50 - 100 ft depth	L.F.	100	\$	6.50	\$	650.00 ✓
Casing Allowance 0 - 50 ft depth	L.F.	100	\$	7.00	\$	700.00 ✓
50 - 100 ft depth	L.F.	100	\$	9.00	\$	900.00 ✓
Extra SPT Samples 0 -50 ft Depth	Each	16	\$	34.25	\$	548.00 ✓
50 - 100 ft depth	Each	20	\$	40.00	\$	800.00 ✓
Auger Borings	L.F.	0	\$	9.00	\$	0.00
Pavement Cores	Each	0	\$	50.00	\$	0.00
Bore Hole Permeability Tests	Test	0	\$	275.00	\$	0.00
Traffic Control (1-man crew with safety equipments)	Each	4	\$	800.00	\$	3,200.00 ✓
III. LABORATORY TESTING						
Visual Examination by Staff Engineer	Hour	5	\$	90.00	\$	450.00 ✓
Natural Moisture Content Tests	Test	15	\$	20.00	\$	300.00 ✓
Grain-Size Analysis - Full Gradation	Test	15	\$	75.00	\$	1,125.00 ✓
Atterberg Limits	Test	0	\$	80.00	\$	0.00
Corrosion Test	Test	1	\$	185.00	\$	185.00 ✓
Organic Content Tests	Test	2	\$	50.00	\$	100.00 ✓
IV. FIELD ENGINEERING AND TECHNICAL SERVICES						
Site Recon./Utility Coordination/MOT Sr. Engineering Technician	Hour	9	\$	70.00	\$	630.00 ✓
Sub Total in Field (SBE)					\$	13,088.00 ✓
V. ENGINEERING AND TECHNICAL SERVICES						
Principal Engineer	Hour	13	\$	150.00	\$	1,950.00 ✓
Senior Geotechnical Engineer	Hour	28	\$	130.00	\$	3,640.00 ✓
Engineer	Hour	33	\$	120.00	\$	3,960.00 ✓
Draftperson	Hour	8	\$	65.00	\$	520.00 ✓
Sub Total in Office					\$	10,070.00 ✓
TOTAL GEOTECHNICAL STUDY FEE FOR BRIDGE =					\$	23,158.00 ✓


**Belvedere Road over LWDD E-3 Canal (Bridge Nos.:
934205 and 934206) Bridge Replacements
Palm Beach County, Florida**

**Fee Estimate for Geotechnical Study - Roadway
TIERRA SOUTH FLORIDA, INC.**

	Unit	# of Units	Unit Price		Total	
I. FIELD INVESTIGATION						
Mobilization of Men and Equipment						
Truck-Mounted Equipment	Trip	1	\$	350.00	\$	350.00 ✓
SPT Borings 0 - 50 ft depth	L.F.	0	\$	12.00	\$	0.00
50 - 100 ft depth	L.F.	0	\$	14.00	\$	0.00
Grout Boreholes 0 - 50 ft depth	L.F.	0	\$	5.50	\$	0.00
50 - 100 ft depth	L.F.	0	\$	6.50	\$	0.00
Casing Allowance 0 - 50 ft depth	L.F.	0	\$	7.00	\$	0.00
50 - 100 ft depth	L.F.	0	\$	9.00	\$	0.00
Extra SPT Samples 0 -50 ft Depth	Each	0	\$	34.25	\$	0.00
50 - 100 ft depth	Each	0	\$	40.00	\$	0.00
Auger Borings	L.F.	90	\$	9.00	\$	810.00 ✓
Muck Probes	Hour	0	\$	100.00	\$	0.00
Pavement Cores	Each	2	\$	50.00	\$	100.00 ✓
Coring Machine rental	Trip	1	\$	400.00	\$	400.00 ✓
Bore Hole Permeability Tests	Test	2	\$	275.00	\$	550.00 ✓
Double Ring Infiltrometer Tests	Test	0	\$	500.00	\$	0.00
Traffic Control (1-man crew with safety equipments)	Each	1	\$	800.00	\$	800.00 ✓
III. LABORATORY TESTING						
Visual Examination by Staff Engineer	Hour	6	\$	90.00	\$	540.00 ✓
Natural Moisture Content Tests	Test	9	\$	20.00	\$	180.00 ✓
Grain-Size Analysis - Full Gradation	Test	9	\$	75.00	\$	675.00 ✓
Atterberg Limits	Test	0	\$	80.00	\$	0.00
Corrosion Test	Test	1	\$	185.00	\$	185.00 ✓
Organic Content Tests	Test	6	\$	50.00	\$	300.00 ✓
LBR	Test	2	\$	275.00	\$	550.00 ✓
IV. FIELD ENGINEERING AND TECHNICAL SERVICES						
Site Recon./Utility Coordination/MOT Sr. Engineering Technician	Hour	10	\$	70.00	\$	700.00 ✓
				Sub Total in Field (SBE)	\$	6,140.00
V. ENGINEERING AND TECHNICAL SERVICES						
Principal Engineer	Hour	10	\$	150.00	\$	1,500.00 ✓
Senior Geotechnical Engineer	Hour	18	\$	130.00	\$	2,340.00 ✓
Engineer	Hour	35	\$	120.00	\$	4,200.00 ✓
Draftperson	Hour	10	\$	65.00	\$	650.00 ✓
				Sub Total in Office	\$	8,690.00 ✓
<u>TOTAL GEOTECHNICAL STUDY FEE FOR ROADWAY =</u>					\$	14,830.00

OEBO SCHEDULE 1

LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

SOLICITATION/PROJECT/BID NAME: Belvedere Road over E-3 Canal Bridge Replacement 

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

CONTACT PERSON: Mohit Soni

SOLICITATION OPENING/SUBMITTAL DATE: _____

SOLICITATION/PROJECT/BID No.: 2018801

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"/>	_____	_____	_____	0%	_____
2. Tierra South Florida, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	Asian American 11.2% ✓
3. HSQ Group, Inc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	32.46%	_____	_____	_____ ✓
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)

Total Bid Price \$ <u>191,168.26</u>	Total _____	32.46%	11.2%
	Total SBE - M/WBE Participation	43.66%	

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

 _____
 Signature Title

Vicepresident
 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
 1 of 4

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: 2018801

SOLICITATION/PROJECT NAME: Belvedere Road over E-3 Canal (Bridge No. 934205 & 934206) Bridge Replacements Project

Name of Prime: Stantec Consulting Services Inc.

(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):

Column 1

Column 2

Male Female African-American/Black Asian American Caucasian American
 Hispanic American 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, Structures, Signing and Pavement Marking, and Utility Coordination				\$191,168.26

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: \$191,168.26

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 2nd/3rd tier Subcontractor/subconsultant

Stantec Consulting Services Inc.

Print Name of Prime

By:  _____

Authorized Signature

Robert T. Carballo, PE

Print Name

Vice President

Title

Date: 09/09/2019

Print Name of Subcontractor/subconsultant

By: _____

Authorized Signature

Print Name

Title

Date: _____

OEBO LETTER OF INTENT – SCHEDULE 2

Exhibit C
3 of 4

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: 2018801

SOLICITATION/PROJECT NAME: Belvedere Road over E.3 Canal ((Bridge No. 934205 & 934206)

Name of Prime: Stantec

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 11/10/2021

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

Column 1

Column 2

Male Female African-American/Black Asian American Caucasian American
 Hispanic American 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
1	Field Investigation				13,308.00
2	Lab Testing				5,920.00
3	Engineering and Technical Services				18,760.00

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: 11.2%

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

Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: _____

Stantec Consulting Services Inc
Print Name of Prime

By: _____
Authorized Signature

Robert Casballo
Print Name

Vicepresident
Title

Date: 09/09/2019

TSF

Print Name of Subcontractor/subconsultant

By: _____
Authorized Signature

Raj Krishnasamy, P.E.

Print Name

President

Title

Date: 8/29/2019

OEBO LETTER OF INTENT – SCHEDULE 2

Exhibit C
4 of 4

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: 2018801
 SOLICITATION/PROJECT NAME: Belvedere Road over E-3 Canal (Bridge No. 934205 & 934206) Bridge Replacements

Name of Prime: Stantec Consulting Services, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 3/13/2018-3/12/2021

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

Column 1	Column 2
<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 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
	Roadway				\$43,228.44
	Drainage				\$4,878.77
	Utilities				\$8,177.74
	Environmental Permits, Compliance & Clearance				\$12,134.65
	Surveying Services				\$38,993.97
	Post Design Services				\$2,721.88

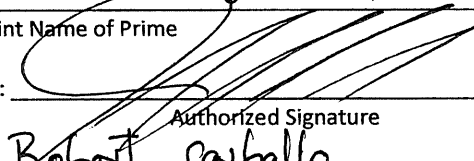
The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: 32.46%

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

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

Stantec Consulting Services, Inc.

Print Name of Prime

By: 
Authorized Signature

Print Name

Title

Date: 09/09/2019

HSQ Group, Inc.

Print Name of Subcontractor/subconsultant

By: 
Authorized Signature

Print Name

Title

Vice President

Title

Date: 8/28/2019



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

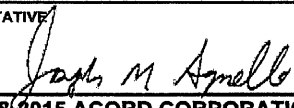
COVERAGES **CERTIFICATE NUMBER:** 14635414 **REVISION NUMBER:** XXXXXXXX

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	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 ***

CERTIFICATE HOLDER**CANCELLATION** See Attachments

14635414 PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS ENGINEERING AND PUBLIC WORKS DEPARTMENT 2300 NORTH JOG ROAD WEST PALM BEACH FL 33411-2745	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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ACORD 25 (2016/03)

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Page 10 of 2

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.