

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: September 10, 2019 Consent [X] Regular [] Public Hearing [] Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: A) a Contract with Gilmore Electric Company, Inc. (GEC) for the Water Treatment Plant No. 9 (WTP 9) Variable Frequency Drive (VFD) and Grounding Improvements (Project) in the amount of \$1,131,991.00; and B) Consultant Services Authorization (CSA) No. 8 with Hillers Electrical Engineering, Inc., (HEE) for the Project Construction Phase Services for a not to exceed amount of \$150,701.76.

Summary: On May 22, 2019, the Water Utilities Department (WUD) received three (3) bids for the Project to install eight (8) VFDs on high service pumps, membrane feed pumps and membrane concentrate pumps to improve energy efficiency and construct grounding improvements at WTP 9. GEC was the lowest responsive and responsible bidder in the amount of \$1,131,991.00. The Project was presented to the Goal Setting Committee on March 20, 2019, and a Small Business Enterprise (SBE) Price Preference Affirmative Procurement Initiative (API) was applied to this Project. GEC is a certified SBE in Palm Beach County and met the established API for this Project. The Contract with GEC provides for 100% SBE participation. GEC is a Palm Beach County Company.

On June 20, 2017, the Board of County Commissioners (BCC) approved the WUD Contract for Consulting/Professional Services for Electrical Instrumentation and Telemetry Engineering Services (Contract) (R2017-0819) with HEE. CSA No. 8 provides for construction phase services for the Project. The Contract with HEE was procured under the requirements of the 2002 SBE Ordinance (R2002-0064) prior to the adoption of the new Equal Business Opportunity Ordinance on October 16, 2018. The SBE participation goal established by the 2002 SBE Ordinance was 15% overall participation. The Contract with HEE provides for 100% SBE participation. CSA No. 8 includes 100% SBE participation. The cumulative SBE participation including CSA No. 8 is 100%. HEE is a Palm Beach County Company. The Project is included in the WUD FY19 budget. (WUD Project No. 18-016) District 5 (MJ)

Background and Justification: WTP 9 serves the unincorporated Palm Beach County area west of the City of Boca Raton. The installation of VFDs on two (2) high service pumps, three (3) membrane feed pumps and three (3) membrane concentrate pumps will reduce energy consumption and improve operational efficiency. The Project also includes the installation of harmonic filters and grounding improvements to protect electrical equipment, reduce stray currents and improve operational safety.

Attachments:

- 1. Four (4) Originals of Contract for Gilmore Electric Company, Inc.
2. Location Map
3. Bid Tabulation Sheet
4. Compliance Review from OEBO
5. Certificate of Liability Insurance for Gilmore Electric Company, Inc.
6. Four (4) Originals of Consultant Services Authorization No. 8
7. Certificate of Liability Insurance for Hillers Electrical Engineering, Inc.

Recommended By: Jim Stiles Department Director Date 8-23-19

Approved By: [Signature] Assistant County Administrator Date 9/9/19

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2019	2020	2021	2022	2023
Capital Expenditures	\$1,282,693	0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match County	0	0	0	0	0
NET FISCAL IMPACT	\$1,282,693	0	0	0	0
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0
Budget Account No.:	Fund <u>4011</u>	Dept <u>721</u>	Unit <u>W005</u>	Object <u>6541</u>	

Is Item Included in Current Budget? Yes X No

Does this item include the use of federal funds? Yes No X

Reporting Category N/A

B. Recommended Sources of Funds/Summary of Fiscal Impact:

One (1) time expenditure from user fees, ~~connection fees~~ and balance brought forward.

C. Department Fiscal Review: _____

III. REVIEW COMMENTS

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

[Signature] 8/27/19
OFMB
8/27

[Signature] 9/5/19
Contract Development and Control
9/5/19

B. Legal Sufficiency:

[Signature] 9/6/19
Assistant County Attorney

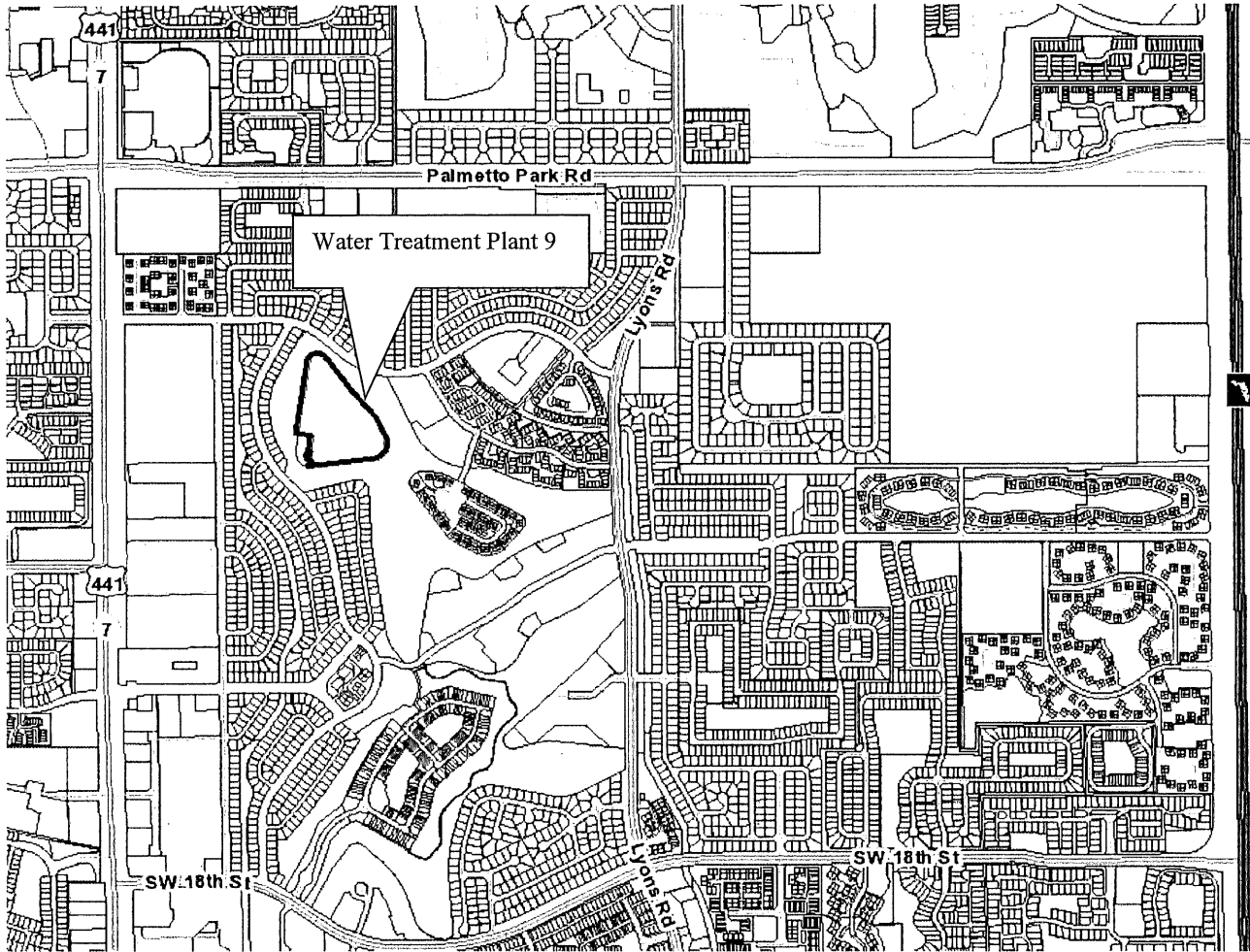
C. Other Department Review:

Department Director

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

ATTACHMENT 2

Location Map



Water Treatment Plant 9 (WTP 9)
22438 Country Club Drive, Boca Raton, FL. 33428

BID TABULATION SHEET

TITLE


**Water Treatment Plant 9
-VDF and Grounding Improvements
YFD**

BID# 18-016

PAGE 1 OF 1

*Calculation Error on
schedule of value by
bidder. PP 5/24/19*

	Edwards Electric Corp.		Electron Corp. of South FL.		Gilmore Electric, Inc.					
BASE BID	\$ 1,866,000.00		\$ 1,421,000.00		\$ 1,137,000.00 \$ 1,131,991.00		\$		\$	
Addendum #1	(Y)	N	(Y)	N	(Y)	N	Y	N	Y	N
Attachment #1 BID BOND	(Y)	N	(Y)	N	(Y)	N	Y	N	Y	N
Attachment #2 OEBO Schedules	(Y)	N	(Y)	N	(Y)	N	Y	N	Y	N
Attachment #3 Certification of Business Location	(Y)	N	(Y)	N	(Y)	N	Y	N	Y	N
Attachment #3a Certification of Business Location – Glades Contractor	(Y)	N	(Y)	N	(Y)	N	Y	N	Y	N
Attachment #4 List of Subcontractors	(Y)	N	(Y)	N	(Y)	N	Y	N	Y	N
Attachment #5 Trench Safety	(Y)	N	(Y)	N	(Y)	N	Y	N	Y	N

BIDS PICKED UP BY  ENGINEER

DATE 5/22/19

ATTACHMENT 3

ATTACHMENT 4



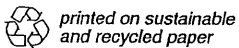
Office of Equal Business Opportunity
50 South Military Trail, Suite 202
West Palm Beach, FL 33415
(561) 616-6840
www.pbcgov.com/oebo



Palm Beach County Board of County Commissioners
Mack Bernard, Mayor
Dave Kerner, Vice Mayor
Hal R. Valeche
Gregg K. Weiss
Robert S. Weinroth
Mary Lou Berger
Melissa McKinlay

County Administrator
Verdenia C. Baker

"An Equal Opportunity Affirmative Action Employer"



Date: June 10, 2019
TO: Pollop Phonpornwithoon, P.E. Project Manager
Through: Allen Gray, Manager, PBC OEBO *Allen Gray*
FROM: Angie Whitaker, Small Bus. Dev. Specialist *AW*
SUBJECT: Compliance Review on Project #WUD 18-016
WTP #9 VFD and Grounding Improvements

The following bids have been evaluated according to the provisions for the SBE Price Preference API, which was established for the above-mentioned project:

Low Bidder: **Gilmore Electric Co., Inc.**
2875 Jupiter Park Dr. #1800
Jupiter, FL 33485
Phone: (561) 744-8008
Bid Opening: **May 22, 2019**
Bid Amount: **\$1,131,991.00**

SBE Prime: **YES**

2nd Low Bidder: **Electron Corp. of South FL.**
127 Renaissance Circle
Jupiter, Fl 33458
Phone: (561) 744-1388
Bid Opening: **May 22, 2019**
Bid Amount: **\$ 1,421,000.00**

SBE Prime: **YES**

3rd Low Bidder: **Edwards Electric Corp.**
7231 Southern Blvd. Ste. C-2
West Palm Beach, FL 33413
Phone: (561) 683-7066
Bid Opening: **May 22, 2019**
Bid Amount: **\$ 1,866,000.00**

SBE Prime: **YES**

EVALUATION

The low bidder, Gilmore Electric, Inc., is a PBC SBE.



cc: David Behar, Assistant County Attorney I
File

**Office of
Equal Business Opportunity**
50 South Military Trail, Suite 202
West Palm Beach, FL 33415
(561) 616-6840
www.pbcgov.com/oebo



**Palm Beach County
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Melissa McKinlay

County Administrator

Verdenia C. Baker

Page 2 of 2
WUD #18-016

*"An Equal Opportunity
Affirmative Action Employer"*

 *printed on sustainable
and recycled paper*



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/23/2019

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 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 Tequesta Insurance Advisors a Marsh & McLennan Agency 218 S US Hwy 1, Ste 300 Tequesta FL 33469	CONTACT NAME: Debra Neumann, CIC PHONE (A/C, No, Ext): (561) 746-4546 E-MAIL ADDRESS: dneumann@mma-fl.com	FAX (A/C, No): (561) 746-9599
	INSURER(S) AFFORDING COVERAGE	
INSURED Gilmore Electric Company, Inc. 2875 Jupiter Park Drive #1800 Jupiter FL 33458	INSURER A: National Trust Ins Co.	20141
	INSURER B: FCCI Insurance Company	10178
	INSURER C: Insurance Company of the West	27847
	INSURER D:	
	INSURER E:	

COVERAGES **CERTIFICATE NUMBER:** 2019/20 AI Master **REVISION NUMBER:**

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 INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY						EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	X		GL100036544-01	1/1/2019	1/1/2020	MED EXP (Any one person) \$ 10,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC						
B	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input checked="" type="checkbox"/> ALL OWNED AUTOS			CA100020657-01	1/1/2019	1/1/2020	BODILY INJURY (Per accident) \$
	<input checked="" type="checkbox"/> HIRED AUTOS						PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB						EACH OCCURRENCE \$ 4,000,000
	<input checked="" type="checkbox"/> EXCESS LIAB						AGGREGATE \$ 4,000,000
	<input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			UMB100020660-01	1/1/2019	1/1/2020	\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)		N/A				E.L. EACH ACCIDENT \$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below			WFL504555100	1/1/2019	1/1/2020	E.L. DISEASE - EA EMPLOYEE \$ 500,000
							E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 Project WUD 18-016 WTP #9 VFD and Grounding Improvements
 If required by written contract, Palm Beach County, a political subdivision of the State of Florida, its officers, agents and employees are Additional Insureds per form CGL 084 10/13 attached to the General Liability Policy. Form attached: CGL 084 10/13 30 Days' Notice of Cancellation except 10 Days for nonpayment.

CERTIFICATE HOLDER Palm Beach County Water Utilities Department 8100 Forest Hill Blvd. West Palm Beach, FL 33413	CANCELLATION 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 Mark Kasten/DEBBIE

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/03/2019

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 any rights to the certificate holder in lieu of such endorsement(s).

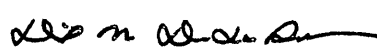
PRODUCER USI Insurance Services, LLC 2502 N Rocky Point Drive Suite 400 Tampa, FL 33607		CONTACT NAME: PHONE (A/C, No, Ext): 813 321-7500 FAX (A/C, No): E-MAIL: ADDRESS:															
INSURED Hillers Electrical Engineering, Inc. 23257 State Road 7, Suite 100 Boca Raton, FL 33428		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Phoenix Insurance Company</td> <td>25623</td> </tr> <tr> <td>INSURER B : Travelers Indemnity Company</td> <td>25658</td> </tr> <tr> <td>INSURER C : Travelers Casualty and Surety Company</td> <td>19038</td> </tr> <tr> <td>INSURER D : Liberty Insurance Underwriters, Inc.</td> <td>19917</td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Phoenix Insurance Company	25623	INSURER B : Travelers Indemnity Company	25658	INSURER C : Travelers Casualty and Surety Company	19038	INSURER D : Liberty Insurance Underwriters, Inc.	19917	INSURER E :		INSURER F :	
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COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

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 INSR	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 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	X	X	6800J840102	05/12/2019	05/12/2020	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$
B	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	BA6E220998	05/09/2019	05/09/2020	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$10000	X	X	CUP0123T314	05/12/2019	05/12/2020	EACH OCCURRENCE \$4,000,000 AGGREGATE \$4,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	UB5K034370	05/12/2019	05/12/2020	<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
D	Professional Liability			AEXNYABA17B002	05/12/2019	05/12/2020	\$3,000,000 per Claim \$3,000,000 Annl Aggr.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Professional Liability coverage is written on a claims-made basis.
 RE: Electrical, Instrumentation & Telemetry Engineering Services WUD 17-006. Palm Beach County Board of County Commissioners, a Political Subdivision of the State of Florida, its Officers, Employees and Agents are listed as additional insureds with respects to the General Liability and Auto Liability per attached CG D3 81 09 07 on a primary and non-contributory basis. Waiver of Subrogation in favor of the additional (See Attached Descriptions)

CERTIFICATE HOLDER Palm Beach County Water Utilities Department c/o Insurance Tracking Services, Inc. (ITS) P O Box 20270 Long Beach, CA 90801	CANCELLATION 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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DESCRIPTIONS (Continued from Page 1)

insureds applies to the General Liability, Auto Liability and Workers Compensation policies. Professional Liability Retro Active Date: March 1, 1994.

CONSULTANT SERVICES AUTHORIZATION NO. 8

**Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services –
Electrical, Instrumentation and Telemetry Engineering Services
Resolution: #R2017-0819 Contract Dated: June 20, 2017**

Project Title: Water Treatment Plant 9 Variable Frequency Drives and Grounding Improvements –
Construction Phase Services

WUD Project No.: 18-016

Consultant: Hillers Electrical Engineering, Inc.

Address: 23257 State Road 7, Suite 100, Boca Raton, FL 33428

Budget Line Item No. 4011-721-W005-6541

District No.: 5

This Consultant Service Authorization provides for: engineering services and programming for Water Treatment Plant 9 Variable Frequency Drives (VFD) and Grounding Improvements Project. The project scope includes improvements to the VFD and grounding of three (3) membrane feed pumps, two (2) high service pumps, and three (3) concentrate booster pumps. To fully integrate the improvements being made under the current construction project, it is necessary to modify and add new VFD controls in lieu of the existing constant speed pumps, existing plant Programmable Logic Controllers (PLCs) and the plant wide control system Supervisory Control and Data Acquisition (SCADA).

(See **ATTACHMENT A** for detailed scope of services)

The Contract provides for 100% SBE participation. This Consultant Services Authorization includes 100% overall participation. The cumulative SBE participation, including this authorization is 100%.

1. Services completed by the Consultant to date:

See ATTACHMENT B.

2. Consultant shall begin work upon receipt of Notice to Proceed correspondence.
3. The compensation to be paid to the Consultant for providing the requested services shall be:

A.	Computation of time charges plus expenses, not to exceed	<u>\$150,701.76</u>
B.	Fixed price of	<u>\$ 0.00</u>
C.	Total	<u>\$150,701.76</u>

4. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.

CONSULTANT SERVICES AUTHORIZATION NO. 8

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services –
Electrical, Instrumentation and Telemetry Engineering Services
Resolution: #R2017-0819 Contract Dated: June 20, 2017

Project Title: Water Treatment Plant 9 Variable Frequency Drives and Grounding Improvements -
Construction Phase Services

WUD Project No.: 18-016

5. SBE participation is included in **ATTACHMENT C** under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each Sub-Consultant (Letter of Intent to Perform as an SBE).
6. This Authorization does not amend, change, or modify the Contract dated June 20, 2017 which remains in full force and effect.
7. All Attachments to this Authorization are incorporated herein and made a part of this Consultant Services Authorization.

CONSULTANT SERVICES AUTHORIZATION NO. 8

Palm Beach County Water Utilities Department
Consulting/Professional Services –
Electrical, Instrumentation and Telemetry Engineering Services
Resolution: #R2017-0819 Contract Dated: June 20, 2017

Project Title: Water Treatment Plant 9 Variable Frequency Drives and Grounding Improvements-
Construction Phase Services

WUD Project No.: 18-016

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Palm Beach County,
Board of County Commissioners

PP
8/23/19

Mack Bernard, Mayor

JCS

Date

CONSULTANT: Hillers Electrical Engineering, Inc.

P. Hillers

(Signature)

Paul Hillers, President
(Name and Title)

7/10/19

Date

STATE OF FLORIDA

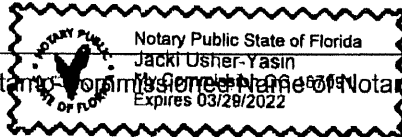
COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me this 10th day of July, 2019,

by Paul Hillers as President

for Hillers Electrical Engineering, Inc.

Jacki Usher-Yasin
(Signature of Notary Public - State of Florida)



(Print, Type, or Stamp Name of Notary Public)

Personally Known X OR Produced Identification _____ Type of Identification Produced _____

LIST OF ATTACHMENTS

CONSULTANT SERVICES AUTHORIZATION NO. 8

**Palm Beach County Water Utilities Department
Consulting/Professional Services –
Electrical, Instrumentation and Telemetry Engineering Services
Resolution: #R2017-0819 Contract Dated: June 20, 2017**

ATTACHMENT - A	Scope of Services
ATTACHMENT - B	Summary and Status of Authorizations
ATTACHMENT - C	SBE Schedule 1 and 2
ATTACHMENT - D	Project Schedule
ATTACHMENT - E	Budget Summary
ATTACHMENT - F	Summary of SBE/Minority Business Tracking
ATTACHMENT - G	Location Map

ATTACHMENT A
SCOPE OF SERVICES

WUD Project No.: 18-016

Project Title: Water Treatment Plant 9 Variable Frequency Drives and Grounding Improvements - Construction Phase Services

BACKGROUND

The Palm Beach County Water Utilities Department (WUD) has an active construction project at Water Treatment Plant 9 (Water Treatment Plant 9 Variable Frequency Drives (VFD) and Grounding Improvements Project WUD 18-016). This project makes improvements to the VFD and grounding of three (3) membrane feed pumps, two (2) high service pumps, and three (3) concentrate booster pumps. The major project elements include:

1. Installation of active filters and modify the existing switchgear
2. Installation of three (3) Owner-furnished membrane feed pump VFD and modification of existing three (3) membrane feed pump VFD.
3. Modification of existing high service pump VFD.
4. Installation of three (3) Owner-furnished concentrate booster pump VFD.
5. Installation of grounding system at the Membrane Building Electrical Room and at the Maintenance Building Electrical Room.
6. Installation of a motor shaft grounding ring on each of the six (6) membrane feed pumps, eight (8) high service pumps, and three (3) concentrate booster pumps.
7. Installation of new VFD cables on each of the six (6) membrane feed pumps, eight (8) high service pumps, and three (3) concentrate booster pumps.
8. Installation of power to the existing Chlorine Building power panel from the electrical system of the Membrane Building and disconnecting the existing electrical feed of the Chlorine Building from 9S Re-pump Building.
9. Installation of secondary power to the existing mini-power zone at the permeate flushing system/cleaning system from the electrical system of Membrane Building.
10. Addition of new input/output points in the existing Remote Input Output (RIO)-11 panel and the RIO-13 panel.
11. Programming of Supervisory Control and Data Acquisition (SCADA) Human-Machine Interface (HMI) software and associated screen development will be performed by WUD and Hillers Electrical Engineering, Inc. (HEE) will interface and coordinate with the WUD SCADA group for the above mentioned modifications. HEE will perform PLC programming and provide equipment tag databases as appropriate to the WUD SCADA group to assist with the SCADA programming activities.

SCOPE OF WORK

CONSULTANT shall perform the engineering Scope of Services as described herein.

CONSULTANT will provide engineering services for the Water Treatment Plant 9 VFD and Grounding Improvements Project WUD 18-016. The scope of services will include the following:

- Coordination with WUD staff
- Prepare meeting agenda and provide summary meeting minutes
- Attend pre-construction meeting
- Prepare conformed drawings
- Review all shop drawings including electrical, instrumentation and mechanical
- Reply to "Requests for Information" (RFIs) by the contractor
- Make minor plan modifications where required
- Perform routine site inspections
- Attend monthly construction meetings
- Assist WUD staff with reviewing/commenting on construction schedules

- Assist WUD staff with reviewing/commenting on pay applications.
- Substantial and final punch list preparation
- Provide Portable Document Format (PDF) and Computer-aided Design (CAD) "As-Built" drawings
- As-builts prepared in accordance with PBCWUD Minimum Standards

OEBO SCHEDULE 1

LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

SOLICITATION/PROJECT/BID NAME: WTP9 VFD and Grounding Improvements- Construction Phase Services
NAME OF PRIME RESPONDENT/BIDDER: Hillers Electrical Engineering, Inc.
CONTACT PERSON: Paul Hillers
SOLICITATION OPENING/SUBMITTAL DATE: N/A

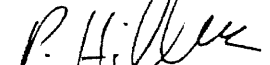
SOLICITATION/PROJECT/BID No.: WUD 18-016
ADDRESS: 23257 State Road 7, Suite 100, Boca Raton, FL 33428
PHONE NO.: 561-451-9165 **E-MAIL:** phillers@hillerse.com
DEPARTMENT: Water Utilities Department

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. Hillers Electrical Engineering, Inc. 23257 State Road 7, Suite 100 Boca Raton, FL 33428	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	_____	\$150,701.76 Asian
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
Total								\$150,701.76

Total Bid Price \$ 150,701.76

Total SBE - M/WBE Participation \$150,701.76

I hereby certify that the above information is accurate to the best of my knowledge:  Paul Hillers, President
Signature Title

- Note:**
1. 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.
 2. 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.
 3. Modification of this form is not permitted and will be rejected upon submittal.

OEBO LETTER OF INTENT – SCHEDULE 2

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

SOLICITATION/PROJECT NUMBER: WUD 18-016

SOLICITATION/PROJECT NAME: WTP 9 Variable Frequency Drives and Grounding Improvements-Construction Phase Services

Name of Prime: Hillers Electrical Engineering, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 2/25/2019 to 10/15/2021*
 *Dates are being corrected in system by OEBO

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	Construction Services	\$82,115.76	1	N/A	\$82,115.76
2	Project Management	\$20,868.32	1	N/A	\$20,868.32
3	PLC Programming	\$47,717.68	1	N/A	\$47,717.68

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: \$150,701.76

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: _____

Hillers Electrical Engineering, Inc.
 Print Name of Prime
 By: *P. Hillers*
 Authorized Signature
Paul Hillers
 Print Name
President
 Title
 Date: 7/10/2019

Hillers Electrical Engineering, Inc.
 Print Name of Subcontractor/subconsultant
 By: *P. Hillers*
 Authorized Signature
Paul Hillers
 Print Name
President
 Title
 Date: 7/10/2019

ATTACHMENT - D

PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-to-Proceed).

Engineering Services	Completion Date From Notice to Proceed	Deliverables
Site inspections	As requested	Site visit reports
Attend Monthly Progress Meetings	Monthly	Meeting Minutes
Shop Drawing Review	14 Calendar Days After Receipt of Shop Drawings	Shop Drawing Review Submittal
Review Pay Applications	As requested	Pay Application Recommendation
Record Drawings	2 weeks after receipt of As-Builts from Contractor	4 sets of signed and sealed full-size drawings. PDF and CAD files

Revised 1-4-19

ATTACHMENT – E

BUDGET SUMMARY

Palm Beach County Water Utilities Department
 Consulting/Professional Services – Electrical, Instrumentation and Telemetry Engineering Services
 Resolution: #R2017-0819 Contract Dated: June 20, 2017
 Consultant Service Authorization: 8
 Consultant: Hillers Electrical Engineering, Inc.
 Project name: Water Treatment Plant 9 Variable Frequency Drives and Grounding Improvements-Construction Phase Services
 WUD Project No.: 18-016

Task	Project	Labor Classification and Hourly Rate							Total	Sub Consultant Services
		Prof.	Programmer	Lead Engineer	Designer	Construction Coordinator	Secretarial	Labor		
Number	Task Description	Manager	Engineer	Programmer	Engineer	Designer	Coordinator	Secretarial	Labor	Services
Task 1	Construction Services									
	Pre-Construction Meeting		3				3		\$800.88	
	Conformed Set Drawings		8			8			\$2,226.56	
	Shop Drawings	20	98				30		\$22,640.48	
	RFI/Contract Clarifications	8	16				18		\$6,179.84	
	Change Orders	8	16				18		\$6,179.84	
	Progress Meetings (up to 30 meetings)		30				60		\$11,416.80	
	Site Visits (up to 30)		30				30		\$8,008.80	
	Startup and Testing	4	16				16		\$5,112.00	
	Preliminary & Final Inspections	4	16				16		\$5,112.00	
	Record Drawings	4	24			32			\$8,520.00	
	Concrete, Metals, Civil, etc., Engineer Review	2	24				16		\$5,918.56	
Task 2	Project Management									
	Meeting minutes		16				32		\$6,088.96	
	Meeting Agenda and setup meetings, etc.		10				24		\$4,260.00	
	Review/comments of Construction Schedules		18				24		\$5,486.88	
	Review/comments of pay applications		18				20		\$5,032.48	
Task 3	PLC Programming									
	Membrane Feed Pump PLC Program Modification		12	52			24		\$12,541.44	
	High Service Pumps (HSP) PLC Program Modification		14	73			32		\$16,977.52	
	Concentrate Pump PLC Program Modification		10	40			12		\$9,031.20	
	Programming Start-up and Testing		18	24			24		\$9,167.52	
	Subtotal	\$10,508.00	\$60,883.92	\$28,985.04	\$0.00	\$4,998.40	\$45,326.40	\$0.00	\$150,701.76	
	Labor Subtotal Hours	50	397	189	0	40	399	0		
	Labor Raw Costs	\$ 74.00	\$54.00	\$ 54.00	\$ 50.00	\$44.00	\$40.00	\$23.00		
	Labor Multiplier	2.84	2.84	2.84	2.84	2.84	2.84	2.84		
	Labor Total	\$10,508.00	\$60,883.92	\$28,985.04	\$0.00	\$4,998.40	\$45,326.40	\$0.00		
	Project Total								\$150,701.76	

ATTACHMENT - F

Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services – Electrical, Instrumentation and
Telemetry Engineering Services
Resolution #R2017-0819 Contract Dated June 20, 2017

AUTHORIZATION STATUS REPORT

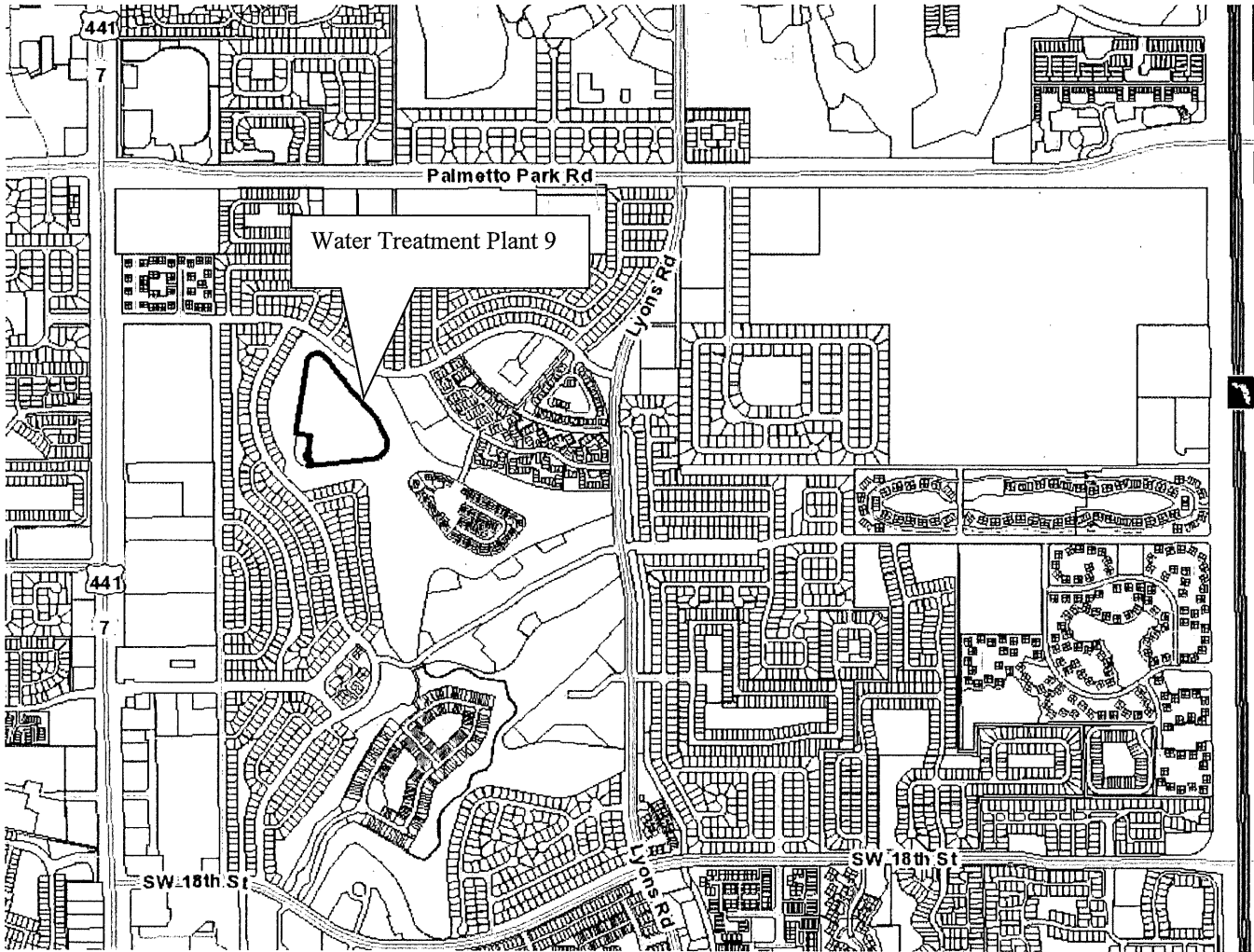
SUMMARY OF
SBE-M/WBE MINORITY BUSINESS TRACKING

	SBE
Master Contract Goal: <u>100</u> (%)	
Current Proposal	
Value of Authorization No <u>8</u>	\$150,701.76
Value of SBE-M/WBE Letters of Intent	\$150,701.76
Actual Percentage	<u>100</u> %
Signed/Approved Authorizations	
Total Value of Authorizations	\$575,435.12
Total Value of SBE-M/WBE Signed Subcontracts	\$575,435.12
Actual Percentage	<u>100</u> %
Signed/Approved Authorizations Plus Current Proposal	
Total Value of Authorizations	\$726,136.88
Total Value of Subcontracts & Letters of Intent	\$726,136.88
Actual Percentage	<u>100</u> %

Revised 1-4-19

ATTACHMENT G

Location Map



Water Treatment Plant 9 (WTP 9)
22438 Country Club Drive, Boca Raton, FL. 33428