



October 31, 2016

E-Filed

Carlotta S. Stauffer, Commission Clerk  
Office of Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

RE: Docket No. 160101-WS; Application for an increase in water and wastewater rates in Charlotte, Highlands, Lake, Lee, Marion, Orange, Pasco, Pinellas, Polk, and Seminole Counties by Utilities, Inc. of Florida  
Our File No. 30057.227

Dear Ms. Stauffer:

Attached are Utilities, Inc. of Florida's responses to #2 and #3 of Staff's Deficiency letter dated September 29, 2016.

Should you have any questions, please do not hesitate to give me a call.

Very truly yours,

/s/Martin S. Friedman

MARTIN S. FRIEDMAN  
For the Firm

MSF/

cc: John Hoy (via e-mail, w/o attachments)  
Patrick Flynn (via e-mail, w/o attachments)  
Erik Sayler, Esquire (via e-mail, w/o attachments)  
Walter Trierweiler, Esquire (via e-mail, w/o attachments)

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-1**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





## ADD-CHANGE FORM

## New Project or Budget Change?

New Project

## Assigned Project #

## Requested by:

Michael Wilson

## Date:

8/25/2016

Project Manager / Area Manager

## Project Name:

CL WTP Replace Hydro Tank #1

## Company:

Cypress Lakes

Cypress Lakes Util Inc

## Business Unit:

248100

Cypress Lakes Utilities Inc W

## Project Owner:

Patrick Flynn

## BU Type:

WP

## Project Manager:

Michael Wilson

## Budget Owner / RVP:

John Hoy

03

## Start Date:

12/1/2016

Q4 2016

## Region:

Florida

04

## Estimated End Date:

2/28/2017

Q1 2017

## State:

FL

## Project Type:

EH&amp;S Compliance

## Will project replace/retire any assets:

Yes

## Previously Requested:

## This Request:

\$30,000

## Still to be Requested:

## Total Project Budget:

\$30,000

## Description:

This project will involve the following:

- A. Disconnect a 10,000-gallon hydropneumatic tank from Summertree Well 13.
- B. Transport the tank to Cypress Lakes WTP.
- C. Construct concrete support structures for tank.
- D. Install the tank on new supports and connect it to existing yard piping.
- E. Clean the tank, inspect, disinfect and sample before placing tank in service.
- F. Demo and remove existing tank.

## Timeline Considerations:

This project will be included in the upcoming consolidated rate case as a proforma project to be filed in 3Q16.

This project will commence after Summertree Well 13 is taken off line.

The next scheduled interior and exterior inspection of the tank will occur in 2017.

## Inter-dependant Project

Project Number:

Project Name

Summertree Well Decommissioning

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

(If applicable)

**Justification and Benefits:**

This project is needed to replace Hydropneumatic Tank #1, which was installed in 1987 and is at the end of its useful service life. The last inspection performed in May 2015 by Crowell Plumbing determined the existing hydro tank required sandblasting and internal coating, which would cost in excess of \$15,000, or replacement. The tank is a non-code ASME with no data plate.

After an interconnection is constructed at the Summertree water system with Pasco County Utilities in 2016, the ASME code 10,000-gallon hydro tank at Summertree Well 13 will be taken off line and available for use at Cypress Lakes. Because the Summertree Well 13 hydro tank was purchased in 2012 and was built to ASME specifications, it has many years of remaining service life. Relocating and installing this tank at the Cypress Lake WTP can be accomplished cost effectively compared to the cost to purchase and install a new 10,000 gallon tank.

**Risk Evaluation**

The existing Cypress Lake #1 hydro tank has experienced degradation of its internal surface coating and steel structure after nearly 30 years of service. As identified in the 2015 Crowell inspection report and as directed by the Polk County Health Department inspector, the utility must either replace or completely refurbish the tank in 2016. If the tank was sandblasted and then found to have additional significant deficiencies, that need to be addressed, the project cost could easily and significantly increase on a tank that does not meet ASME specifications.

**Alternatives Considered:**

1. Remove tank from service, sandblast and internally coat as recommended by inspector at a cost of \$15,000. Utilizing the non ASME code tank.
2. Remove and replace with new tank at an estimated cost of \$60,000.
3. Replace with transferred tank from Summertree at a cost of \$40,000.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	30,000				
Project Spend in Current Plan	25,000				
Variance	(5,000)	-	-	-	-
CIAC Collected					
Net Rate Base	30,000	30,000	30,000	30,000	30,000

(if applicable)

### O&M Cost Impact B/(W)

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### Financial Justification

1. The existing tank was inspected in 2015 and found deficient. The tank inspection report was submitted to the Polk County Health Dept. which directed the utility to either refurbish or replace the tank.
2. The existing tank was installed in 1987 and is at the end of its service life.
3. The existing tank does not meet ASME specifications whereas the tank at Summertree Well 13 does.
4. The cost to replace Cypress Lakes Hydro Tank #2 in 2013 was more than \$50,000. The cost to replace the original hydro tank at Summertree Well #13 in 2012 was about \$60,000. Repurposing the Well 13 tank is a cost effective use of an existing asset.
5. No construction permit is required to complete the project. This is considered a maintenance activity since this is a like for like replacement of the existing tank with an ASME code tank (per Chapter 62-555.520(1)(c)(1), F.A.C.).

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
1,519	
1,519	

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-

### Timing and Supporting Information on Rate Recovery

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### Regulatory Plan Implications

The project cost will be included in the 2016 consolidated rate case as a proforma project.

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### Assumptions

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## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	TBD		
2			
3			

### Component:

### Amount

Value Bid Elements

25,000.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Contingency

5,000.00

Total Project Budget

30,000.00

Object Account(s) to which project will be closed:

1165

Oth Plt&Misc Equip Wtp

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

General Comments:





## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

9/1/2016

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by

Date:

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Michael Wilson

Date:

☒

VP Operations:

Date:

☐

President:

Date:

☐

### Approval or Re-Direction Comments

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. I60101-WS

**EXHIBIT PCF-2**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #

Requested by:

Mike Wilson

Date:

6/27/2016

Project Manager / Area Manager

Project Name:

Cypress Lakes Sediment Removal

Company:

UIF - Cypress

Cypress Lakes Util Inc

Business Unit:

248101

Cypress Lakes Utilities Inc S

BU Type:

SP

Project Owner:

Patrick Flynn

Budget Owner / RVP:

John Hoy

03

Project Manager:

Mike Wilson

Region:

Florida

04

Start Date:

7/5/2016

Q3 2016

State:

FL

Estimated End Date:

7/29/2016

Q3 2016

Project Type:

Maintenance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$50,200

Still to be Requested:

Total Project Budget:

\$50,200

## Description:

This project's components include:

1. Remove and dispose of accumulated grit and sand in the Cypress Lakes WWTP's three treatment trains.
2. Remove and replace fine bubble diffusers in Trains 1 & 2 that have failed.
3. Replace all PVC connecting pipe with stainless steel connecting pipe to improve the reliability of the fine bubble diffusers.
4. Remove and replace coarse bubble diffusers in Train #3. It is unknown how much work and material will be required to address train #3 until the tank levels are lowered and the riser pipes and diffusers are inspected.

## Timeline Considerations:

This project is a proforma project to be included in the 2016 consolidated UIF rate case.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Engineering project number

(If applicable)

**Justification and Benefits:**

The Cypress Lakes WWTP, permitted capacity of 0.190 mgd AADF, serves the Cypress Lake MHP, a retirement community of approximately 1,500 homes that has seasonal occupancy. During the peak season the facility labors to produce plant effluent that meets reclaimed water standards for golf course irrigation purposes. The golf course is the sole reclaimed water customer.

The removal of the accumulated sediment, grit, rags and sand (approximately one foot depth throughout the facility) from the bottom of each air bay will restore the aerated volume to design capacity specifications. This project will also provide an opportunity to install an improved type of air diffuser and associated connector materials. This will reduce the number of diffuser failures caused by the use of PVC materials. The new diffusers also will provide a better means of oxygen transfer.

**Risk Evaluation**

The added aeration bay capacity will provide overall improvement in processing of plant flow and improve the water quality applied to the sand filters. This will increase filter runtime and thus reduce backwash frequency and the volume of waste stream pumped to the headworks for retreatment. The aeration basins have been taken down on numerous occasions for diffuser piping failures, which impaired plant performance and triggered emergency repairs. Subsequent to these diffuser failures and response, grit and sand have accumulated along the bottom of each air bay below the main air header.

**Alternatives Considered:**

The treatment plant is approaching design capacity. This project is needed to keep the facility operationally successful at all times. Plant performance has already been impaired due to the accumulation of grit. Further delays in removing the material could lead to non-compliance with the treatment plant's operating permit. We have previously removed sediment with a vactor truck as a short term fix, not as a comprehensive effort.

**Technical Review Summary:**



Capital Plan	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	50,200				
Project Spend in Current Plan					
Variance	(50,200)	-	-	-	-
CIAC Collected					
Net Rate Base	50,200	50,200	50,200	50,200	50,200

(if applicable)

### O&M Cost Impact B/(W)

### Financial Justification

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**Estimated Revenue Impact per Customer:**

**Number of Customers Impacted:**

Served	Rate Payers
1,500	1,500

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-

### Timing and Supporting Information on Rate Recovery

[illegible]

### Regulatory Plan Implications

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### Assumptions

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If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Polston Applied Technologies	\$42,310	Yes
2			
3			

**Component:**

Amount

### Value Bid Elements

42,310.00

## Engineering

### Direct Purchase of Parts / Materials

4,000.00

## Landscaping / Site Restoration

Other Components (specify):

## Cap Time

1,500.00

**Contingency, 5%**

2,390.00

### Total Project Budget

50,200.00

**Object Account(s) to which project will be closed:**

1400

Treat/Disp Equip Trt Plt

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

**General Comments:**

This project is needed to maintain plant treatment capabilities during peak seasonal flows. The project will reduce costs through a reduction in blower run times to develop operational DO requirements and also a reduction in filter backwash because of a reduction of turbidity.



## Approvals

### EAM Prime Review

Review Completed by \_\_\_\_\_

Date: \_\_\_\_\_

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by \_\_\_\_\_

Date Held \_\_\_\_\_

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by \_\_\_\_\_

Date: \_\_\_\_\_

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager: \_\_\_\_\_

Date: \_\_\_\_\_

☐

VP Operations: \_\_\_\_\_

Date: \_\_\_\_\_

☐

President: \_\_\_\_\_

Date: \_\_\_\_\_

☐

### Approval or Re-Direction Comments



## Polston Quote

June 21, 2016

Lee Neal  
Area Manager  
UIF  
Cypress Lake WWTP  
10000 US Highway 98 N  
Lakeland, FL 33809

RE: Cypress Lakes WWTP Cleaning and Aeration Rehab Project Rev. 1

Mr. Neal,

On behalf of Polston Applied Technologies, thank you for the opportunity to provide an estimate to remove accumulated sand and grit from the Cypress Lakes WWTP. Polston has evaluated this project at an average depth of 1 ft of debris across the tanks which equates to an estimated 60 cubic yards of accumulated sand and grit built up that need to be cleaned. If there is a significant amount more material in the ditch (10% or greater than estimate) this will have an effect on the labor and equipment cost for removal of the material.

Please find attached an estimate and preliminary schedule to provide a complete operation of removing, hauling, and dumping at a permitted disposal site.

**Based on our understanding, the scope of the project includes:**

- Mobilization to facility
- 3 Man Service Crew
- One Polston Combination<sup>3</sup> Truck
- One Polston Roll Off Truck
- Polston will remove accumulated material from Cypress Aeration Basin #1 and Aeration #2 while out of service
- Polston will remove and replace 3/4" PVC Pipe Connections on Aeration Diffusers and Install new Membranes on each of the diffusers in Aeration Basins #1 and #2, material to be supplied by Utilities, Inc.
- Polston will remove accumulated material from Cypress Aeration Basin #3 and the Surge Tank / Headworks while these tanks are in partial operation
- Polston will assist with the removal of the coarse air diffusers in Aeration Basin #3 to remove material that has accumulated in the basin and on the diffusers.
- Polston will haul all loads to a permitted disposal site
- Polston will dispose of the material at a permitted disposal site
- Clean up project site at completion of project.
- Demobilization from facility

## PRICING SCHEDULE

Tank Description: Cypress Lakes Project	
Proposal Line Item	Cost
All labor, material, and equipment for cleaning of structures and rehabbing diffusers	\$35,600.00
Mobilization and Demobilization of equipment and crew	\$1,625.00
Transportation of material to Class 1 Landfill - \$250.00 per load	est. \$1,000.00
Material Testing (8 Metal TCLP) ***if required***	\$800.00
Sand and Grit Disposal Cost – est. 73 tons - \$45.00 per ton	est. \$3,285.00
<b>TOTAL</b>	<b>\$42,310.00</b>

Prior to mobilization all testing requirements will be met including the waste profile approved and accepted by the generator for disposal. This estimate assumes the material (TCLP test) will be accepted at an approved disposal facility.

Disposal and hauling is estimated based on 73 tons of hauling and disposal to an approved disposal facility. Polston bills hauling and disposal at the unit cost quoted for project.

Our estimate assumes the System will supply:

- Proper access for the equipment in and around the facility
- Replacement diffuser parts and crimping tool for replacing ¾" PVC Pipe Connection and new Membrane
- Sufficient suitable water supply for the high pressure jetting operation (reclaimed is sufficient)
- Proper access for the pump/vacuum heads of the Polston process

Again, thank you for the opportunity to submit a proposal for this project.

Should you have any questions, or need clarification on this proposal, please do not hesitate to contact me directly at (407) 803-3911. Thank you in advanced for your consideration.

Sincerely,

*Richard Smith*

Richard Smith  
Polston Applied Technologies

7/1/16

*Lee Noel*

Lee Noel Area Mgr



FROM: 7/4/2016 TO: 7/31/2016  
 SCHEDULED WORK HOURS PER DAY  
 Hrs Day: 10 Fri 8 S/S 6  
 Project: CYPRESS LAKES & FOREST LAKES  
 Owner: UTILITIES INC.  
 Location: LAKELAND P.L.S.  
 Project Manager: LEE NEAL  
 Const Manager: JERRY BOTTS

Crew Leader:  
 Name: PAUL DEL PAVERO  
 Name: JOSH STEPHENS  
 Name: LEE NEAL  
 Name: JERRY BOTTS

Project	Description	Start	Finish	Current Week							WEEK #1 (Dates: 7/4 - 7/10)							WEEK #2 (Dates: 7/11 - 7/17)							WEEK #3 (Dates: 7/18 - 7/24)							WEEK #4 (Dates: 7/25 - 7/31)							Plan Crew Hrs	Comments/ Requirements (Equipment, tools, materials, etc.)	
				Manpower Quantity							Manpower Quantity							Manpower Quantity							Manpower Quantity							Manpower Quantity									
				M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S			
WWTP	REP			6/27	6/28	6/29	6/30	7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/11	7/12	7/13	7/14	7/15	7/16	7/17	7/18	7/19	7/20	7/21	7/22	7/23	7/24	7/25	7/26	7/27	7/28	7/29	7/30	7/31			
CYPRESS	UTILITIES INC.	DRAIN AERATION BASIN #1	6/30/16	7/1/16			X	X																																	
CYPRESS	PAT - 949	MOBILIZATION TO CYPRESS LAKES	7/5/16	7/5/16							4																														
CYPRESS	PAT - 949	CLEAN AERATION BASIN #1	7/6/16	7/6/16									4																												
CYPRESS	PAT - CREW	REPLACE DIFFUSERS BASIN #1	7/7/16	7/7/16										2																											
CYPRESS	OPERATOR	BRING AERATION BASIN #1 BACK IN SERVICE	7/7/16	7/8/16										X	X																										
LABRADOR	PAT - 949	CLEAN TRAIN #1	7/7/16	7/11/16										2	4			2																							
LABRADOR	PAT - 949	CLEAN TRAIN #3	7/11/16	7/13/16														2	4	4																					
CYPRESS	UTILITIES INC.	DRAIN AERATION BASIN #2	7/12/16	7/13/16															X	X																					
CYPRESS	PAT - 949	CLEAN AERATION BASIN #2	7/14/16	7/14/16																	4																				
CYPRESS	PAT - CREW	REPLACE DIFUSERS BASIN #2	7/15/16	7/15/16																		4																			
CYPRESS	UTILITIES INC.	BRING AERATION BASIN #2 BACK ONLINE	7/15/16	7/16/16															X	X																					
LABRADOR	PAT - 949	CLEAN TRAIN #2	7/18/16	7/20/16																					4	4	4														
CYPRESS	UTILITIES INC.	PARTIAL DRAIN AERATION BASIN #3	7/19/16	7/20/16																						X	X														
CYPRESS	PAT - 949	CLEAN AERATION BASIN #3	7/21/16	7/22/16																									4	4											
CYPRESS	PAT - 949	CLEAN SURGE TANK	7/25/16	7/25/16																													4								
BOTH	PAT - 949	PROJECT CLEAN UP AND WALK THROUGH	7/26/16	7/26/16																														4							
BOTH	PAT - 949	DEMobilIZATION FROM SITE	7/27/16	7/27/16																															4						

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-3**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

March 15, 2016

Mike Wilson  
Utilities Inc. of Florida  
Regional Manager  
200 Weathersfield Avenue  
Altamonte Springs, Florida 32714

**Subject: Eagle Ridge Wastewater Treatment Facility, Ft. Myers, Florida  
WWTF Feasibility Study to Evaluate Replacement of Surge Tanks .**

Hello Mike:

It's my understanding that you would like for us to evaluate the feasibility of replacing the two existing tube steel surge tanks with one glass fused tank (like Aquastore tank). Additionally we are to incorporate a Vulcan screen with a screw to transfer the solids to a dumpster.

There is a limited amount of room to work with and the most likely area to construct the new surge tank appears to be a wetland. also the existing surge tanks need to remain in service while the new tank and screen are constructed.

Since there are a number of unknowns regarding the work we thought it may be best to develop a feasibility so that we can evaluate the alternatives, the site constraints and decide on the best alternative. Subsequently, we can develop a design around the chosen alternative.

In order to accomplish this we'll perform the following services:

1. Environmental assessment (EA) with wetland determination and potential impacts.
2. Perform engineering calculations to determine the surge tank volume needed.
3. Research the available tank sizes and roof construction materials for the most optimum alternative to include the screen and screw and odor control.
4. Meet with you in the field to review the gathered information and discuss alternatives.
5. Provide an engineering opinion of costs for the recommended alternative.
6. Prepare a feasibility study report discussing the findings, conclusions and recommendations.

**Professional Fees**

We will complete scope of work in tasks 1. - 6. above for a lump sum fee of \$8,900.00 plus other direct costs.

**Other Direct Costs**

Other direct costs include items such as printing, drawings, travel, deliveries, and etcetera. This does not include any of the application fees for the various agencies, which are the Owner's responsibility and have not been accounted for in this proposal. Other Direct Costs will be charged in accordance with the enclosed Schedule of Charges (Exhibit 1).



#### Additional Services

Any Additional Services requested that are not a part of this proposal will be invoiced either on a time and materials basis, in accordance with the enclosed Schedule of Charges (Exhibit 1), or on a mutually agreed upon fee.

#### Services Not Provided

The following services are not provided in this proposal:

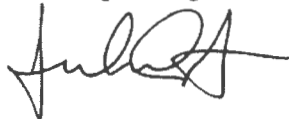
- a. Design, engineering and permitting of any improvements.
- b. Geotechnical Investigations and Engineering.
- c. Construction of any tanks, equipment, or appurtenances.
- d. Coordination with governmental agencies.

This proposal, together with the General Terms and Conditions, which have been received and reviewed, represents the entire understanding between Utilities Inc. of Florida and Excel Engineering Consultants, LLC, with regard to the referenced project. We will start work immediately upon receipt of an approved agreement, a \$1,900.00 retainer. This proposal with the General Terms and Conditions is the total understanding between you and us and may only be modified in writing.

We appreciate the opportunity of working with you on this project and thank you for considering Excel Engineering Consultants, LLC an integral part of your team. We look forward to helping you create a quality project.

Sincerely,

Excel Engineering Consultants, LLC



Julian R. Coto, P.E.  
President

JRC:mr

Approved and accepted this 15<sup>th</sup> day  
of MARCH, 2016.

Eagle Ridge WWTF Surge Tank Replacement

By:   
Signature

Utilities Inc. of Florida

~~Mike Wilson, Regional Manager~~

PATRICK C. FLYNN, VP

Enclosures: Exhibit 1 - Schedule of Fees & Other Direct Costs  
General Terms & Conditions

PRP09052-Magnolia Village Water & Sewer Feasibility Study.doc



122 Wilshire Boulevard, Casselberry, FL 32707  
Telephone: (407) 260-2292  
www.Excelengineers.com



The following schedule of fees and other direct cost are an integral part of the Agreement being signed and should be thoroughly understood by both parties.

Exhibit No. 1  
Schedule of Fees & Other Direct Costs

Schedule of Fees

Expert Witness	\$200.00
Principal Engineer	\$175.00
Project Manager	\$125.00
Project Engineer	\$95.00
Engineering Technician	\$65.00
Project Coordinator/Clerical	\$55.00

Schedule of Other Direct Costs

Plotting (24x36)	\$1.50 per sheet
Printing (8 1/2 x 11 & 11 x 17)	\$.15 per sheet
Mailing (USPS)	Cost + 20%
Overnight (UPS)	Cost + 20%
Courier (local deliveries)	Cost + 20%
Mileage	\$.60 per mile

Initial:

A handwritten signature in black ink, appearing to be the initials "K" or "A" with a vertical stroke.

Date:

\_\_\_\_\_

Initial:

A handwritten signature in blue ink, appearing to be the initials "SD" or "JD" with a stylized flourish.

Date:

3/15/16



## GENERAL TERMS AND CONDITIONS

The following terms and conditions are an integral part of the Agreement being signed and should be thoroughly understood by both parties. The purchaser of services to be rendered in hereinafter called "client" and the supplier of the services Excel Engineering Consultants, LLC is hereafter called "Consultant".

### 1. ABSENCE OF WARRANTY

All services of Consultant and subconsultants will be performed in a reasonable and prudent manner in accordance with generally accepted engineering practice. All estimates, recommendations, opinions and decisions of Consultant will be on the basis of the information available to Consultants and the engineer's experience, technical qualifications, and professional judgment. There are no warranties of merchantability or fitness for a particular purpose or any other warranties or guarantees whatsoever, expressed or implied, with respect to any service performed under this Agreement.

### 2. FEE PROPOSAL

Fee proposals are developed for a specific scope of services as defined in the scope of services of said proposal. A fee proposal will be valid for a period of 30 days from the proposal date. If not executed by the Client within that 30-day period it will become null and void unless Consultant agrees otherwise. Contract rates and charges are reviewed and modified every six (6) months. Therefore, scope of services that extend beyond a six (6) month period shall be subject to increases based on current rates or charges.

### 3. INVOICES

Invoices will be prepared and mailed periodically (usually on a monthly basis) by Consultant to Client for professional services rendered, and are due and payable upon receipt by the Client. Client shall make prompt payments in response to these invoices. If Client fails to make any payments due for services and expenses rendered within thirty (30) days from the date of the invoice, (pay period), Consultant may, after serving seven (7) days written notice to Client, suspend services under this Agreement until paid in full all amounts due for services and expenses rendered. An interest rate charge of 1% per month, or portion thereof, shall be charged to the balance of all unpaid invoices after the pay period. Consultant shall not be liable for any actual or consequential damages for its failure to provide professional services nor any other damages that are caused by circumstances beyond its control or by the termination of services due to Client's failure to pay in a timely manner. In addition to all other amounts that may be due herein, Consultant shall be entitled to all costs of collection due, including reasonable attorney's fees and court cost.

### 4. CHANGES OR DELAYS

Unless the accompanying Proposal provides otherwise, the proposed fees constitute Consultant estimate to perform the services required to complete the Project, as we understand it to be defined. For those projects involving conceptual or process development work, activities often are not fully definable in the initial planning stage, and may require modifications to the original scope of services as dictated by facts developed during the initial stages. Consultant will inform the Client of such situations so that negotiation of change in scope, time of performance, and fee can be accomplished as required. Costs and schedule commitments shall be subject to renegotiation for unreasonable delays caused by the Client's failure to provide specified facilities or information or force majeure, acts of God, etc.

### 6. OPINIONS OF COST (Cost Estimates)

Since Consultant has no control over the costs of labor, materials, equipment or services furnished by others, or over the Contractor's method of determining prices, or over competitive bidding or market conditions, our opinions of probable Project Cost and Construction Cost provided for herein are to be made on the basis of our experience and qualifications and represent our best judgment as experienced and qualified professional engineers, familiar with the construction industry; but Consultant cannot and does not guarantee that proposals, bids, actual Project or Construction Costs will not vary from estimates and/or opinions of probable cost prepared by Consultant. If prior to the Bidding or Negotiating Phase, Client wishes greater assurance as to Project or Construction Costs, Client shall employ an independent cost estimator. Engineering services to modify the Contract Documents to bring the Construction Cost within any limitation established by Client will be considered Additional Services and paid for as such by Client.

### 6. CONSTRUCTION ADMINISTRATION LIMITS

Consultant may provide construction Administration Services to Client. It is understood that this service includes the periodic observations of the contractor's work by Consultant's engineers. Site observations are performed to determine if the construction is generally proceeding in conformance to the contract document. The Engineer does not and shall not act as a construction manager to direct and supervise the work being performed, which is the responsibility of the Client/Owner or its appointed representative, and Consultant shall not be held liable for specific construction errors that are the responsibility of the Client/Owner or its appointed construction managers.

### 7. PAYMENT

Where the method of contract payment is based on a cost reimbursement basis (i.e. hourly rates, time and material, direct personnel expenses, or per diem) or on a lump sum basis, the following provisions shall apply.

a. Expenses properly chargeable for the services that are reimbursable at cost shall include: professional and technical subconsultants, travel, identifiable communication, shipping, printing and reproduction costs, computer time and specifically purchased supplies. A thirty percent (30%) handling and administrative charge will be added to professional and technical subconsultants. A twenty percent (20%) handling and administrative charge will be added all other items, which are purchased from outside sources.

b. Invoices for effort on a cost reimbursement basis will be submitted showing labor hours worked and total expenses, but not actual documentation. If requested by Client, documentation will be provided at the cost of providing such documentation, including labor and copying cost.

### 8. RETAINERS

Retainers offer consultant a security deposit for services rendered and is not to be construed as a partial payment of the agreed upon fees and charges. Consultant will hold the retainer until the scope of services is completed and may be applied to the final invoice at consultant's discretion. The retainer or portion thereof will be returned to client at the completion of the work. In the case of unpaid delinquent invoices extending beyond 30 days from the due date, the retainer will be used to cover the unpaid balances, demand letters and notices. In the case of delinquent invoices Client will forfeit unused portions of the retainer as liquidated damages. Work will not be initiated until retainer amount is replenished. Retainers are non-refundable, if a project is cancelled or stopped by a client for any reason.

### 9. SUCCESSORS

Client and Consultant each binds himself and his partners, successors, executors, administrators, assigns and legal representatives to the other party to this Agreement and to the partners, successors, executors, administrators, assigns and legal representative of such other party, in respect to all covenants, agreements and obligations of this Agreement.

### 10. ASSIGNABILITY

Client may not assign agreement to another party without prior written consent of Consultant. Consultant at its discretion may stop work and demand payment for services rendered to date from Client if Client has assigned agreement to others without consent. Consultant will have no obligation to the party that Client assigned agreement and Consultant may stop work on the project without further notice and apply retainer to unpaid balances. Client will forfeit remainder of retainer as liquidated damages.

Initial: 

Date: \_\_\_\_\_

Initial: 

Date: 3/15/16

Revised 9/9/2013



**11. LIMITATION ON CONSULTANTS**

Nothing contained in this Agreement shall prevent Consultant from employing such independent consultants, associates and subcontractors as Consultant may deem appropriate to assist in the performance of services herein.

**12. RIGHTS OF OTHERS**

Nothing herein shall be construed to give any rights or benefits hereunder to anyone other than Client and Consultant.

**13. TERMINATION**

The obligation to provide further services under this Agreement may be terminated by either party upon thirty (30) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. However, Consultant may, after giving seven (7) days written notice to Client, suspend services under this Agreement for non payment of invoices (as covered elsewhere in this Addendum) or for failure by Client to give prompt written authorization to proceed with any phase of services after completion of the immediately preceding phase.

**14. DRAWINGS AND SPECIFICATIONS**

All documents including Reports, Drawings and Specifications prepared by Consultant pursuant to this Agreement are instruments of service in respect to the Project (collectively referred to as the "Work") and Consultant's intellectual property and are wholly owned by Consultant. Use or reuse of the Work for any purpose, without the written consent by Consultant, is prohibited. Client shall compensate Consultant for any unauthorized use or reuse of the work and shall indemnify and hold harmless Consultant from all claims, damages, losses and expenses including reasonable attorney's fees arising out of or resulting from the unauthorized use or reuse of the Work.

**15. CONFIDENTIALITY**

Consultant shall maintain as confidential and not disclose to others, without Client's prior written consent, all information obtained from Client, not otherwise previously known or in the public domain, as Client expressly designates in writing to be "Confidential." This provision shall not apply to published information, information obtained from a third party, or information required to be disclosed by law. Client agrees that Consultant may use and publish Client's name, description of services performed with respect to the Project and photographs of the projects in describing the Consultant's experience and qualifications to other clients or potential clients.

**16. CONTROLLING AGREEMENT**

To the extent they are inconsistent or contradictory, express terms of the accompanying Proposal take precedence over these General Terms and Conditions. Consultant acknowledgment or receipt of any purchase order, notice or authorization, or Consultant performance of work subsequent to receipt thereof does not constitute acceptance of any terms or conditions other than those set forth herein, except as specifically accepted in writing by Consultant.

**17. DISCOVERY OF UNANTICIPATED HAZARDOUS MATERIALS**

Client warrants that a reasonable effort has been made to inform Consultant of known or suspected hazardous materials on or near the project site. Under this agreement, the term hazardous material includes hazardous materials (40 CFR 172.01), hazardous wastes (40 CFR 261.2), hazardous substances (40 CFR 300.6), petroleum products, polychlorinated biphenyls, and asbestos. Hazardous materials may exist at a site where there is no reason to believe they could or should be present. Consultant and Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work. Consultant and Client also agree that the discovery of unanticipated hazardous materials may make it necessary for Consultant to take immediate measures to protect health and safety. Client agrees to compensate Consultant for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials. Consultant agrees to notify Client when unanticipated hazardous materials or suspected hazardous materials are encountered. Client agrees to make any disclosure required by law to the appropriate governing agencies. Client also agrees to hold Consultant harmless for any and all consequences of disclosures made by Consultant, which are required by governing law. In the event Client does not own the project site, Client recognizes that it is the Client's responsibility to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials. Notwithstanding any other provision of the Agreement, Client waives any claim against Consultant, and to the maximum extent permitted by law, agrees to defend, indemnify, and

save Consultant harmless from any claim, liability, and/or defense cost for injury or loss arising from Consultant's discovery of unanticipated hazardous materials or suspected hazardous materials including any costs created by delay of the project and any cost associated with possible reduction of the property's value. Client will be responsible for ultimate disposal of any samples secured by the Consultant, which are found to be contaminated.

**18. INSURANCE**

Consultant agrees to carry, at its' own expense, General and Professional Liability Insurance and will, furnish insurance certificates to Clients. If Client prefers to have additional insurance coverage, Consultant agrees to purchase it (presuming availability from carriers acceptable to Consultant) provided the premiums for additional insurance coverage are reimbursed by Client.

**19. RISK ALLOCATION**

Client agrees that Consultant's liability for any damage on account of any error, omission or other professional negligence will be limited to a sum not to exceed Consultant's fee. Provided said such sum shall not include any items considered unjust enrichment to the Client, any improvement costs or betterment costs and shall not exceed the actual costs resulting from such negligent act.

**20. DISPUTE RESOLUTION**

All claims, disputes, and other matters in controversy between Consultant and Client arising out of or in any way related to this Agreement will be submitted to "alternative dispute resolution" (ADR) including mediation and arbitration, before and as a condition precedent to other remedies provided by law. If a dispute at law arises related to the services provided under this Agreement and that dispute requires litigation subsequent to ADR as provided above, then:

Both parties hereby agree that the venue of this Agreement, without prior notice, will lie in Seminole County, Florida.

**21. PARTIES TO AGREEMENT**

The parties to this agreement agree that this agreement is solely between Excel Engineering Consultants, LLC (Consultant) and the purchaser of services to be rendered (Client). Nothing in this agreement shall be construed as Client having any kind of direct contractual relationship with any of the Consultant's employees, principals, officers or directors. The agreement is solely between Consultant and Client.

**22. Responsibility**

PURSUANT TO FLORIDA STATUTES §558.0035, ANY INDIVIDUAL EMPLOYEE OR AGENT OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

Initial:



Date:

3/15/16

Initial:

Date:

July 14, 2016

Patrick Flynn, V. P. of Operations  
Utilities Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, Florida 32714  
C/O Mike Wilson

Via email: mawilson@uiwater.com

**Subject: Eagle Ridge Wastewater Treatment Facility, Ft. Myers, Florida  
WWTF Feasibility Study Change Order No. 1.**

Hello Mike:

The work that's been performed on the feasibility study shows that the depressional area where the tank is proposed to be located is a wetland. As such the depressional area has organic hydric soils which are structurally unsuitable for construction. In order to determine the vertical extent of the hydric soils and to determine the structural capacity of the soils a geotechnical evaluation is recommended. This will enable a more accurate determination as to the extent of unsuitable soils in the project area as well as the technical information for designing of the foundations of the various structures. In addition, changes to the scope of work including fitting an office trailer and a chlorine and sampling equipment shed into the already limited area is being requested. This also resulted in an additional field meeting to scope out the extent of the proposed modifications.

In order to arrive at an accurate opinion of costs and accommodate the additional requirements the work being proposed is needed.

In order to accomplish this we'll perform the following services:

1. Geotechnical investigation which will include a 50 foot deep SPT boring under the proposed equalization tank, muck probes in the depressional and surrounding areas in order to estimate the depth of the organic soils, water table determination, classification of soils and engineering analysis of the findings along with a geotechnical report.
2. Modify the proposed site plan to accommodate the requested improvements which in addition to the equalization tank will include a 45' x 12' office trailer and a 12' x 12' equipment shed, re-alignment the driveway to accommodate the additional improvements and add parking for the office trailer.
3. Update the Feasibility Study Report to address the changes.
4. One additional field meeting and office meeting.

**Professional Fees**

A.	Additional Services in tasks 1-4 above .....	\$ 7,447.00
<b>B.</b>	<b>Changes to Agreement</b>	
C.	Original Agreement .....	\$ 8,900.00
D.	Change Order No. 1 .....	\$ 7,447.00
E.	New Amount.....	\$16,347.00

Patrick Flynn  
Eagle Ridge Surge Tank Replacement- C.O. #1  
July 13, 2016  
Page 2

This Change Order No. 1, together with the General Terms and Conditions of the original Feasibility Study agreement represents the entire understanding between Utilities Inc. of Florida and Excel Engineering Consultants, LLC, with regard to the referenced project. We will start work immediately upon receipt of the approved agreement.

We appreciate the opportunity of working with you on this project and thank you for considering Excel Engineering Consultants, LLC an integral part of your team. We look forward to helping you create a quality project.

Sincerely,  
Excel Engineering Consultants, LLC



Julian R. Coto, P.E.  
President

JRC/mr

Approved and accepted this 14<sup>th</sup> day  
of JULY, 2016.

Eagle Ridge WWTF Surge Tank Replacement  
Change Order No.1

By:   
Signature

Utilities Inc. of Florida  
Patrick Flynn, Vice President of Operations

PRP16020 - CO#1 Eagle Ridge Feasibility Study.docx



122 Wilshire Boulevard, Casselberry, FL 32707  
Telephone: (407) 260-2292  
www.Excelengineers.com





122 Wilshire Blvd  
Casselberry, FL 32707

# Invoice

Date	Invoice #
5/25/2016	9829

Bill To
Utilities Inc. of Eagle Ridge c/o Mike Wilson 200 Wathersfield Avenue Altamonte Springs, FL 32714

P.O. No.	Terms	Project
UTI02-0116	15 DAYS	Eagle Ridge - UTI02

Description	Est Amt	Prior Amt	Prior %	Qty	Curr %	Total %	Amount
UTILITIES, INC OF FLORIDA EAGLE RIDGE, HEADWORKS / SURGE TANK WWTF FEASIBILITY STUDY UTI02-0116							
Consulting Engineering Services	8,900.00			0.5	50.00%	50.00%	4,450.00

Thank you and God Bless - Please Make Check Payable to Excel Engineering Consultants, LLC

**Total** \$4,450.00

**Payments/Credits** \$0.00

**Balance Due** \$4,450.00

Water&WW Systems/Underground Utilities/Site Work/Industrial Construction  
State Certified General Contractor CG-C061731/State Certified Electrical Contractor EC13004251

**INVOICE #79169**  
June 16, 2016

Attn: Accounts Payable  
UTILITIES, INC  
2335 Sanders Road  
Northbrook, IL 60062

RE: Eagle Ridge WWTP – Driveway Improvements  
PO# BU#

Ordered by: Michael Wilson  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

6/15/16: Draw for work completed to date on North, South and Middle driveways per Contract #1461 signed 6/1/16 and Change Order #1 signed .

Shot existing elevations to maximize positive drainage  
Excavated, graded and compacted areas.  
Supplied and installed new crushed concrete road base as needed. Compacted areas.  
Located and cleaned two catch basins and culvert pipes across driveway entrance.  
Regraded swale areas and sodded with St Augustine Sod.

ORIGINAL CONTRACT AMOUNT:	\$14,873.00
CHANGE ORDER #1 6-14-16:	<u>\$ 5,389.70</u>
NEW CONTRACT SUM:	\$20,262.70
LESS CURRENT DRAW REQUEST:	<u>- \$10,131.35</u>
REMAINING BALANCE:	\$10,131.35

**TOTAL AMOUNT DUE THIS INVOICE: \$10,131.35**  
**ERMS: Due Upon Receipt**





P.O. Box 2459  
RIVERVIEW, FL 33569  
PHONE: (813) 677-6877  
FAX: (813) 677-2605

Water&WW Systems/Underground Utilities/Site Work/Industrial Construction  
State Certified General Contractor CG-C061731/State Certified Electrical Contractor EC13004251

**INVOICE #79176**

June 27, 2016

Attn: Accounts Payable  
UTILITIES, INC  
2335 Sanders Road  
Northbrook, IL 60062

RE: Eagle Ridge WWTP – Driveway Improvements  
PO# 217242 BU# 249100

Ordered by: Michael Wilson  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

6/27/16: Draw for completion of work on North, South and Middle driveways per Contract #1461 signed 6/1/16 and Change Order #1. Installed 2" thick SIII Asphalt Overlay on each driveway. Rolled and compacted.

ORIGINAL CONTRACT AMOUNT:	\$14,873.00
CHANGE ORDER #1 6-14-16:	<u>\$ 5,389.70</u>
NEW CONTRACT SUM:	\$20,262.70
LESS PREVIOUS PAYMENT:	<u>- \$10,131.35</u>
AMOUNT NOW DUE:	\$10,131.35

**TOTAL AMOUNT DUE THIS INVOICE: \$10,131.35**  
**ERMS: Due Upon Receipt**

Machine & Fabrication Shop / (239) 332-1131 Ext 270 / (800) 282-8378 / (239) 332-4252 Fax  
[machineshop@bobdeansupply.com](mailto:machineshop@bobdeansupply.com)

## QUOTE

Date: 3-16-16

Customer: Utilities Inc.

Contact Name: Mike Wilson

Project Name: Splitter Box for Eagle Ridge

Fax # / Email Address: 407-869-6961

*We are pleased to quote the following:*

1 - 304 stainless steel splitter box made from 3/16 material. The 8" pipe to be sch 10, the 6" sch 40. The box to be constructed per Mr. Dean's drawings.

Total, \$ 10,450.00

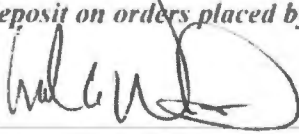
Delivery would be approximately 4 - 5 weeks.

*This is an altered material proposal. Please verify the information above. Before any work can be started, we must have a signed copy of this form accompanied by your purchase order number. Altered material orders are non-returnable.*

**NO WORK WILL BE STARTED WITHOUT YOUR SIGNED AUTHORIZATION.**

*We require a 50% deposit on orders placed by customers that do not have an open credit account with our company.*

ACCEPTED BY:



DATE

3/21/16

PO#

209948

**THIS QUOTE IS VALID FOR 14 DAYS.**

Bob Crowder  
Shop Manager



P.O. Box 2459  
RIVERVIEW, FL 33569  
PHONE: (813) 677-6877  
FAX: (813) 677-2605

Water&WW Systems/Underground Utilities/Site Work/Industrial Construction  
State Certified General Contractor CG-C061731/State Certified Electrical Contractor EC13004251

**INVOICE #79168**

June 16, 2016

Attn: Accounts Payable  
UTILITIES, INC  
2335 Sanders Road  
Northbrook, IL 60062

RE: Eagle Ridge WWTP – Flow Splitter Box Installation  
PO# BU#

Ordered by: Michael Wilson  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

6/15/16: Completion of work per Contract #1460 signed 6/1/16 and Change Order #1 signed .  
Removed existing flow splitter box and disposed of off-site  
Picked up new flow splitter box from fabrication shop  
Installed new SS flow splitter box with all necessary couplings and connected to existing piping  
Installed 6" Sch80 PVC influent force main from ground into box  
Installed new 2" force main from simplex lift station at office trailer to new flow splitter box

**TOTAL AMOUNT DUE THIS INVOICE: \$7,000.00**  
**ERMS: Due Upon Receipt**



Client	Service Location	8/4/2016
Utilities, INC Attn: Michael Wilson Regional Manager 200 Weathersfield Ave Altamonte Spg, FL 32714-4027	Utilities, INC C/O Michael Wilson 14668 Aeries Way Dr Fort Myers, FL 33912-1703	Proposal #: 20029630-00000788 Account #: 5389991 Mobile: (407) 468-3268 Email: mawilson@uiwater.com

<u>Tree Pruning and Surgery</u>	<u>Service Period</u>	<u>Price</u>	<u>Tax</u>	<u>Total</u>
<input checked="" type="checkbox"/> Tree Pruning <i>Remove selective exotic plantings and small undesirable saplings front property adjacent to the fence entrance water plant to golf course entrance. "must keep privacy in mind/residents do not want to see water tanks from roadway"</i> <i>Vertical cut overextended plants growing over the fence to provide clearance near gate golf course gate as directed .</i> <i>Crown Reduction by 30% selective pruning of branches to decrease height, spread and/or end weight of a tree's crown to the taller trees as directed.</i>		\$28,050.00		\$28,050.00
<input checked="" type="checkbox"/> Tree Removal <i>Remove to near ground level 23 Malaleuca trees and 1 Brazilian pepper inside the plant area as directed to reduce the risk of damage to critical plant components.</i>  <i>Remove the fallen debris from the ground and provide fence clearance as directed inside the plant.</i>  <i>Vertical cut plantings back from the roadway to provide clearance " prune aggressively"</i>  <i>*do not take trucks off roadway</i>		\$10,800.00		\$10,800.00
<input type="checkbox"/> Tree Pruning <i>Continued Maintenance</i>  <i>Remove selective exotic plantings and small undesirable saplings front property adjacent to the fence entrance water plant to golf course entrance. "must keep privacy in mind/residents do not want to see water tanks from roadway"</i> <i>Vertical cut overextended plants growing over the fence to provide clearance near gate golf course gate as directed .</i>		\$7,650.00		\$7,650.00
<input type="checkbox"/> Yes, please schedule the services marked above.				

No Deposit may be required upon acceptance:

\$ .00 Deposit Required / \$ \_\_\_\_\_ Deposit Received

Upon completion of work, please charge balance to credit card ☐ Yes ☐ No

Deposit payment options we accept are check or credit card

To pay by check mail to

To pay by credit card call

The Davey Tree Expert  
Company  
5515 Yahl St., Suite A  
Naples, FL 34109

(239) 403-9665



**ACCEPTANCE OF PROPOSAL:** The above prices and conditions are hereby accepted. You are authorized to do this work as specified. I am familiar with and agree to the terms and conditions appended to this form. All deletions have been noted. I understand that once accepted, this proposal constitutes a binding contract. This proposal may be withdrawn if not accepted within 30 days.

*Dan Powell*

Dan Powell ISA Certified Arborist PD-0329A

*Michael A. Wilson*

Authorizing Signature

29 August 2016

Date

## Client Care Guarantee

We use quality products that are administered by trained personnel. We guarantee to deliver what we have contracted to deliver. If we do not, we will work with you until you are satisfied, or you will not be charged for the disputed item. Our Client Care Guarantee demonstrates our commitment to creating lifelong client relationships.

### Tree Pruning and Surgery

**PRUNING:** Performed by trained arborists using industry and Tree Care Industry Association (TCIA) approved methods.

**TREE REMOVAL:** Removal to within 6" of ground level and cleanup of debris.

**STUMP REMOVAL:** Mechanical grinding of the visible tree stump to at or just below ground level. Stump area will be backfilled with stump chips and a mound of remaining chips will be left on site unless otherwise stated in the contract. Chip removal, grading and soil backfill are available.

**CLEAN-UP:** Logs, brush, and leaves, and twigs large enough to rake are removed. Sawdust and other small debris will not be removed.

**CABLING/BRACING:** Cabling and bracing of trees is intended to reduce damage potential. It does not permanently remedy structural weaknesses, is not a guarantee against failure and requires periodic inspection.

### Tree and Shrub Fertilization/SoilCare

Your arborist will assess your property's overall soil conditions either through physical assessment or through soil testing and will recommend a soil management program to help the soil become a better medium to enable healthy plants to thrive or unhealthy plants to regain their vitality. SoilCare programs will include fertilizers, organic humates, fish emulsions and other organic soil conditioners.

Our advanced formula, Arbor Green PRO, works with nature to fertilize without burning delicate roots, building stronger root systems and healthier foliage. It contains no chlorides or nitrates. It is hydraulically injected into the root zone and the nutrients are gradually released over time. Research and experience shows the dramatic benefits Arbor Green PRO provides: greater resistance to insects and diseases, greater tolerance to drought stress, increased vitality, and healthier foliage.

### Tree and Shrub Fertilization

Our advanced formula, Arbor Green PRO, works with nature to fertilize without burning delicate roots, building stronger root systems and healthier foliage. It contains no chlorides or nitrates. It is injected into the root zone and the nutrients are gradually released over time. Research and experience shows the dramatic benefits Arbor Green PRO provides: greater resistance to insect and disease, greater tolerance to drought stress, increased vigor, and healthier foliage.

### Tree and Shrub Plant Health Care

**PRESCRIPTION PEST MANAGEMENT:** Customized treatments to manage disease and insect problems specific to plant variety and area conditions. Due to the short term residual of available pesticides, repeat applications may be required.

**INSECT MANAGEMENT:** Inspection and treatment visits are scheduled at the proper time to achieve management of destructive pests. Pesticides are applied to label specifications.

**DISEASE MANAGEMENT:** Specific treatments designed to manage particular disease problems. Whether preventative or curative, the material used, the plant variety being treated, and the environmental conditions all dictate what treatment is needed.

EPA approved materials will be applied in accordance with State and Federal regulations.

### Lawn Care

**FERTILIZER AND MECHANICAL SERVICES:** Balanced fertilizer treatments applied throughout the growing season help provide greener turf color and denser root development. To help bring about a better response to these applications, we also provide aerification, lime, overseeding, and lawn renovation.

**WEED CONTROL AND PEST MANAGEMENT:** Broadleaf weed control is spot-applied during the active growing periods of the year. It is not broadcast over the entire lawn. Granular weed management may be broadcast. We also offer pre-emergent crabgrass management in the spring and, if needed, a postemergent application later in the year. Our surface insect management is timed to reduce chinchbugs, sod webworms, and billbugs. We also offer a grub management application. Disease management materials and treatments are matched to particular disease problems. This usually requires repeat applications.

### Other Terms and Contract Conditions

**INSURANCE:** Our employees are covered by Worker's Compensation. The company is insured for personal injury and property damage liability. Proof of insurance can be verified by requesting a copy of our Certificate of Insurance.

**WORKING WITH LIVING THINGS:** As trees and other plant life are living, changing organisms affected by factors beyond our control, no guarantee on tree, plant or general landscape safety, health or condition is expressed or implied and is disclaimed in this contract unless that guarantee is specifically stated in writing by the company. Arborists cannot detect or anticipate every condition or event that could possibly lead to the structural failure of a tree or guarantee that a tree will be healthy or safe under all circumstances.

Trees can be managed but not controlled. When elevated risk conditions in trees are observed and identified by our representatives and a contract has been signed to proceed with the remedial work we have recommended, we will make a reasonable effort to proceed with the job promptly. However, we will not assume liability for any accident, damage or injury that may occur on the ground or to any other object or structure prior to us beginning the work. Site inspections do not include internal or structural considerations unless so noted. Unless otherwise specified, tree assessment will not include investigations to determine a tree's structural integrity or stability. We may recommend a Risk Assessment be conducted for an additional charge.

**TREE CARE STANDARDS:** All work is to be performed in accordance with current American National Standards Institute (ANSI) Standard Practices for Tree Care Operations. **OWNERSHIP OF TREES/PROPERTY:** Acceptance constitutes a representation and warranty that the trees and property referenced in this quote are either owned by the signee or that written permission has been received to work on trees which are not on the signee's property.

**TIME & MATERIAL (T&M):** Jobs performed on a T&M basis will be billed for the time on the job (not including lunch break), travel to and from the job, and materials used.

**BILLING & SALES TAX:** All amounts deposited with us will either be credited to your account or applied against any amounts currently due. Our invoices are due net 30 days from invoice date. Services may be delayed or cancelled due to outstanding account balances. Sales tax will be added as per local jurisdiction. Clients claiming any tax exempt status must submit a copy of their official exempt status form including their exemption number in order to waive the sales or capital improvement tax.

**PAYMENT:** We accept checks and credit cards. Credit card payments may be made online at our web site. Paying by check authorizes us to send the information from your check to your bank for payment.

**UNDERGROUND PROPERTY:** We are not responsible for any underground property unless we have been informed by you or the appropriate underground location agency.

**SCHEDULING:** Job scheduling is dependent upon weather conditions and work loads.

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-4**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #

Requested by:

Mike Wilson

Date:

6/27/2016

Project Manager / Area Manager

Project Name:

Labrador Sediment Removal

Company:

UIF - Labrador

Labrador Utilities Inc

Business Unit:

259101

Labrador Utilities Inc S

Project Owner:

Patrick Flynn

BU Type:

SP

Project Manager:

Mike Wilson

Budget Owner / RVP: John Hoy

03

Start Date:

7/5/2016

Q3 2016

Region:

Florida

04

Estimated End Date:

7/29/2016

Q3 2016

State:

FL

Project Type:

Maintenance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$61,137

Still to be Requested:

Total Project Budget:

\$61,137

## Description:

This project's components include:

1. Remove and dispose of accumulated grit and sand in the Labrador WWTP's three treatment trains (nine tube tanks). The grit, sand and sediment will be hauled to a nearby landfill authorized to accept such waste.
2. Sample and analyze the material for metals and other parameters as required by the landfill before delivery.
3. Remove and replace coarse bubble diffusers in Trains 1, 2 & 3 that have failed. It is unknown how much work and material will be required to address all three treatment trains until the tank levels are lowered and the riser pipes and diffusers are inspected.
4. All nine tanks will be cleaned with liquid still in the tanks to avoid floating of the tanks out of the ground.

## Timeline Considerations:

This project is a proforma project to be included in the 2016 consolidated UIF rate case.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Engineering project number

(If applicable)

**Justification and Benefits:**

The Labrador WWTP, permitted capacity of 0.216 mgd AADF, serves the Forest Lake Estates MHP, a retirement community of approximately 900 homes and a 274-unit RV park that has seasonal occupancy.

The removal of the accumulated sediment, grit, rags and sand (approximately one foot depth throughout the facility) from the bottom of each air bay will restore the aerated volume to design capacity specifications. This project will also provide an opportunity to replace failing diffusers. The new diffusers also will provide a better means of oxygen transfer. The removal of grit, sand and particulates from the tanks will improve effluent quality and also reduce the current maintenance required to clean irrigation spray heads on the spray field.

**Risk Evaluation**

The added aeration capacity will provide overall improvement in processing of plant flow and improve the effluent water quality which is directed to the spray field site.

**Alternatives Considered:**

This project is needed to keep the facility operationally successful at all times. Plant performance has already been impaired due to the accumulation of grit. Further delays in removing the material could lead to non-compliance with the treatment plant's operating permit. We have previously removed sediment with a vactor truck as a short term fix, not as a comprehensive effort.

**Technical Review Summary:**





## Financial and Regulatory Implications

### Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

#### Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
61,137				
(61,137)	-	-	-	-
61,137	61,137	61,137	61,137	61,137

(if applicable)

O&M Cost Impact B/(W)

--	--	--	--	--

### Financial Justification

--

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
1,175	1,175

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-

### Timing and Supporting Information on Rate Recovery

--

### Regulatory Plan Implications

--

### Assumptions

--



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Polston Applied Technologies	\$55,225	Yes
2			
3			

### Component:

### Amount

Value Bid Elements	55,225.00
Engineering	
Direct Purchase of Parts / Materials	1,500.00
Landscaping / Site Restoration	
Other Components (specify):	
Cap Time	1,500.00
Contingency, 5%	2,912.00

Total Project Budget

61,137.00

Object Account(s) to which project will be closed:

1400

Treat/Disp Equip Trt Plt  
select from dropdown list  
select from dropdown list  
select from dropdown list  
select from dropdown list

[Go to Reference List](#)

### General Comments:

This project is needed to maintain treatment plant performance during peak seasonal flows.

Only one vendor was solicited for the work. Polston Applied Technologies offers a specialized, efficient system of grit, sand and solids removal without having to fully empty each tank. This eliminates the possibility of the tanks floating or popping from buoyancy caused by high ground water levels.



## Approvals

### EAM Prime Review

Review Completed by \_\_\_\_\_

Date: \_\_\_\_\_

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by \_\_\_\_\_

Date Held \_\_\_\_\_

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by \_\_\_\_\_

Date: \_\_\_\_\_

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager: \_\_\_\_\_

Date: \_\_\_\_\_

☐

VP Operations: \_\_\_\_\_

Date: \_\_\_\_\_

☐

President \_\_\_\_\_

Date: \_\_\_\_\_

☐

### Approval or Re-Direction Comments



## Polston Quote

June 21, 2016

Lee Neal  
Area Manager  
UIF  
Forest Lake Estates WWTP  
41311 Paquette Way  
Zephyrhills, FL 33540

RE: Forest Lakes WWTP Cleaning Project Rev. 1

Mr. Neal,

On behalf of Polston Applied Technologies, thank you for the opportunity to provide an estimate to remove accumulated sand and grit from the Forest Lakes WWTP. Polston has evaluated this project at an average depth of 1 ft of debris across the tanks which equates to an estimated 93 cubic yards of accumulated sand and grit built up that need to be cleaned. If there is a significant amount more material in the structures (10% or greater than estimate) this will have an effect on the labor and equipment cost for removal of the material.

Please find attached an estimate and preliminary schedule to provide a complete operation of removing, hauling, and dumping at a permitted disposal site.

**Based on our understanding, the scope of the project includes:**

- Mobilization to facility
- 3 Man Service Crew
- One Polston Combination<sup>3</sup> Truck
- One Polston Roll Off Truck
- Polston will remove accumulated material from Forest Lakes WWTP Trains #1, #2, and #3 while the tanks are in operation
- Polston will haul all loads to a permitted disposal site
- Polston will dispose of the material at a permitted disposal site
- Clean up project site at completion of project.
- Demobilization from facility

## PRICING SCHEDULE

Tank Description: Forest Lakes WWTP Project	
Proposal Line Item	Cost
All labor, material, and equipment for cleaning of structures	\$45,000.00
Mobilization and Demobilization of equipment and crew	\$1,625.00
Transportation of material to Class 1 Landfill - \$250.00 per load	est. \$1,500.00
Material Testing (8 Metal TCLP) ***if required***	\$800.00
Sand and Grit Disposal Cost - est. 140 tons - \$45.00 per ton	est. \$6,300.00
<b>TOTAL</b>	<b>\$55,225.00</b>

Prior to mobilization all testing requirements will be met including the waste profile approved and accepted by the generator for disposal. This estimate assumes the material (TCLP test) will be accepted at an approved disposal facility.

Disposal and hauling is estimated based on 140 tons of hauling and disposal to an approved disposal facility. Polston bills hauling and disposal at the unit cost quoted for project.

Our estimate assumes the System will supply:

- Proper access for the equipment in and around the facility
- Sufficient suitable water supply for the high pressure jetting operation (reclaimed is sufficient)
- Proper access for the pump/vacuum heads of the Polston process

Again, thank you for the opportunity to submit a proposal for this project.

Should you have any questions, or need clarification on this proposal, please do not hesitate to contact me directly at (407) 803-3911. Thank you in advanced for your consideration.

Sincerely,

*Richard Smith*

Richard Smith  
Polston Applied Technologies

7/1/16

*Lee Neal Area Mgr.*



FROM: 7/4/2016 TO: 7/5/2016  
 SCHEDULED WORK HOURS PER DAY  
 Hrs Day 5/5  
 Day Fri 10 8 8  
 Project: CYPRESS LAKES & FOREST LAKES  
 Owner: UTILITIES INC.  
 Location: LAKE LAND FL 8  
 Project Manager: LEE NEAL  
 Const Manager: JERRY BOTTIS

Crew Leader  
 Name: PAUL DUBOIS  
 Name: JOSEPH S. P. H. N. S.  
 Name:

Project	Description	Start	Finish	Current Week														WEEK #1		WEEK #2		WEEK #3		WEEK #4		Plan Crew Hrs.	Comments/ Requirements (Equipment, tools, materials, etc.)												
				Manpower Quantity							Manpower Quantity							Manpower Quantity		Manpower Quantity		Manpower Quantity																	
				M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M			T	W	T	F	S	S						
WWTP	REP			8/27	8/28	8/29	8/30	8/31	9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30	10/1
CYPRESS	UTILITIES INC	DRAIN AERATION BASIN #1	6/30/16	7/1/16			X	X																															
CYPRESS	PAT - 949	MOBILIZATION TO CYPRESS LAKES	7/5/16	7/5/16							4																												
CYPRESS	PAT - 949	CLEAN AERATION BASIN #1	7/6/16	7/6/16											4																								
CYPRESS	PAT - CREW	REPLACE DIFFUSERS BASIN #1	7/7/16	7/7/16												2																							
CYPRESS	OPERATOR	BRING AERATION BASIN #1 BACK IN SERVICE	7/7/16	7/8/16												X	X																						
LABRADOR	PAT - 949	CLEAN TRAIN #1	7/7/16	7/11/16												2	4																						
LABRADOR	PAT - 949	CLEAN TRAIN #3	7/11/16	7/13/16															2	4	4																		
CYPRESS	UTILITIES INC	DRAIN AERATION BASIN #2	7/12/16	7/13/16																X	X																		
CYPRESS	PAT - 949	CLEAN AERATION BASIN #2	7/14/16	7/14/16																		4																	
CYPRESS	PAT - CREW	REPLACE DIFFUSERS BASIN #2	7/15/16	7/15/16																			4																
CYPRESS	UTILITIES INC	BRING AERATION BASIN #2 BACK ONLINE	7/15/16	7/16/16																		X	X																
LABRADOR	PAT - 949	CLEAN TRAIN #2	7/18/16	7/20/16																						4	4	4											
CYPRESS	UTILITIES INC	PARTIAL DRAIN AERATION BASIN #3	7/19/16	7/20/16																								X	X										
CYPRESS	PAT - 949	CLEAN AERATION BASIN #3	7/21/16	7/22/16																										4	4								
CYPRESS	PAT - 949	CLEAN SURGE TANK	7/25/16	7/25/16																												4							
BOTH	PAT - 949	PROJECT CLEAN UP AND WALK THROUGH	7/28/16	7/28/16																													4						
BOTH	PAT - 949	DEMobilization FROM SITE	7/27/16	7/27/16																														4					

Polston Applied Technologies, LLC  
6450 University Blvd | Unit 1  
Winter Park, FL 32792 US  
(844) 765-7866  
www.polstonprocess.com



# INVOICE

INVOICE # INV-1361  
DATE 08/31/2016  
DUE DATE 09/01/2016  
TERMS Due on receipt

**BILL TO**  
Lee Neal  
Forest Lake WWTP  
(Zephyrhills)  
Utilities, Inc., Forest Lake  
Estates WWTP  
41311 Paquette Way  
Zephyrhills, FL 33540

Please detach top portion and return with your payment.

ACTIVITY	QTY	RATE	AMOUNT
<b>Service</b> Polston Process Work Performed (see contract/work order for additional details)	1	49,509.70	49,509.70

BALANCE DUE

**\$49,509.70**

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Gurnee, IL 60031-9004  
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TOLL FREE: 1-800-493-9876  
F.E.I.N.: 52-2418852

## INVOICE

Batch \_\_\_\_\_

Doc \_\_\_\_\_

INVOICE NO.	PAGE NO.
075750	1 of 1
CUSTOMER NO.	DATE
U0600	10/03/16

View online at: <http://usabluebook.billtrust.com>  
Web Enrollment Token: MDX DPB TKH

BILL TO: U0600  
902 1 MB 0.419 E0140 10272 D1902995040 S2 P3518147 0004:0004

SHIP TO: 33



UTILITIES INCORPORATED OF  
FLORIDA  
2335 SANDERS RD  
NORTHBROOK IL 60062-6196

UTILITIES INCORPORATED OF  
FLORIDA  
41311 PAQUETTE WAY  
ZEPHYRHILLS FL 33540-7579  
USA

Ordered by: 0078 ROBERT BUONO

Attention: 0078 ROBERT BUONO

CUSTOMER P.O. NO.	SHIP DATE	SLP	TERMS	TAX CODE	SALES ORDER NO.	W/H	FREIGHT	SHIP VIA
2016076/259101	10/03/16	AHA	1%/10 NET 30	FL	771833	01	FXD/PPD	UPS
USA STOCK NO.	DESCRIPTION	ORDERED	SHIPPED	BACKORDER	U/M	PRICE	PER	EXTENSION
32182	US Filter EnviroQuip FlexLine Repl.EPDM Membrane 65 x 610	20	20	0	EA	23.75	EA	475.00
30065	EDI 304SS 68.0 CLAMP	40	40	0	EA	1.43	EA	57.20

THANK YOU for your business!  
1.5% MONTHLY FINANCE CHARGE  
ON AMOUNTS 30 DAYS PAST DUE  
Discounts Apply to Merchandise Only

MERCHANDISE	MISCELLANEOUS	DISCOUNT	TAX	FREIGHT	TOTAL
532.20	0.00	0.00	31.93	32.26	596.39

Should it become necessary to refer your unpaid balance to a collection agency, a collection fee, not to exceed 25% of the balance referred; plus reasonable attorney's fees; and court costs when necessary, will be added to the balance due.

Please Detach and Return Bottom Portion to Insure Proper Credit to Your Account

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OCT 12 2016

### \*\*\*\*IMPORTANT\*\*\*\*

Please include this customer #  
on the face of your remittance check.

INVOICE NO.	CUSTOMER NO.	DATE	TOTAL
075750	U0600	10/03/16	596.39

UTILITIES INCORPORATED OF  
FLORIDA  
2335 SANDERS RD  
NORTHBROOK IL 60062-6196

### REMITTANCE ADDRESS

UTILITIES INCORPORATED OF  
FLORIDA  
P.O. Box 9004  
Gurnee, IL 60031-9004

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-5**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



# ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2015018

Requested by: Bryan K. Gongre  
Project Manager / Area Manager

Date: 1/26/2015

Project Name: Lake Groves - SolarOrganite

Company: 251 Lake Utility Services Inc

Business Unit: 251103 LUSI South S

Project Owner: Bryan K. Gongre

BU Type: SP

Project Manager: Bryan K. Gongre

Budget Owner / RVP: John Hoy 03

Start Date: 2/9/2015 Q1 2015

Region: Florida 04

Estimated End Date: 12/31/2016 Q4 2016

State: FL

Project Type: Cost Reduction

Will project replace/retire any assets: No

Previously Requested: \$205,000

This Request: \$40,000

Still to be Requested:

Total Project Budget: \$245,000

## Description:

Construction of a 20' x 60' concrete Pre-processing and Pasteurization chamber with odor control system.

Change Order #1 - Purchase of a 30 cubic yard Flo-Trend dewatering box.

## Timeline Considerations:

Timing is driven by the opportunity to eliminate annual sludge hauling expense of \$42,278.00 (\$3,523/month). It will take 6 to 8 weeks to obtain materials to construct the grid system followed by site work that will take an additional four weeks. This assumes no FDEP permitting will be required and the equipment performs as designed through the pilot testing phase.

## Inter-dependant Project

Project Number: Project Name (If applicable)

Have engineering evaluations been performed? No Engineering project number (If applicable)



**Justification and Benefits:**

This a newly patented sludge drying process that will be designed sufficient in size to treat biosolids generated at the Lake Groves WWTF. The sludge will initially be processed through the existing Flo Trend dewatering box then poured into the Pre-processing chamber of the drying unit. After one day's time, the sludge will then be pushed into the Pasteurization chamber for final processing where the biosolids will be converted to a Class A product with a solids content of 75-90%. The reduced biosolids will then be swept up and disposed of in a Class 1 landfill. By processing biosolids using this technology, sludge hauling costs will be drastically reduced and the Utility will avoid large increases in sludge hauling expense by a sludge hauling vendor.

CO #1 - The Lake Groves WWTF is currently assigned a 30 CY Flo Trend dewatering box used to dewater residuals that are hauled off site and disposed of at an RMF facility. The existing box must continue to serve its current purpose. A second Flo Trend box is necessary to be used in dewatering and tipping of residuals into the SolarOrganite processing chamber. The second Flo Trend box will facilitate the use of the Solarganite process without hampering the existing operation of the wastewater treatment process. Since there is continued growth in the Lake Groves service area, influent flows have been increasing as well resulting in increased sludge production. A single Flo Trend box is not capable of dewatering enough sludge to keep up with sludge production making the purchase of a second box necessary.

**Risk Evaluation**

Extended inclement weather periods where little sunlight appears would lead to longer processing times. This brings identifies the need to routinely process biosolids as often as possible so there is sufficient capacity in the plant digesters to hold sludge until the weather clears up. Since hauling costs have been omitted, this doesn't pose a problem.

The proposed capacity of the SolarOrganite unit doesn't process enough biosolids from the two (2) treatment plants to keep up with sludge production. In such a case the vendor has agreed to increase the size of the unit at the vendor's expense.

Permitting issues. FDEP has been consulted and agreed to this project being considered a pilot study with no permitting required and agreed that permitting can be addressed during the next Operating Permit renewal cycle. The Department backs the development and application of this technology due to its potential as a viable means of achieving Class A solids and reducing the need for land application.

Odors generated during the process. A small odor control unit with a blower has been added to the project scope.

**Alternatives Considered:**

Continue using the existing sludge hauling vendor. This option makes the Utility vulnerable to escalating costs for sludge disposal year after year due to increases in unit disposal costs and the volume of sludge generated.

**Technical Review Summary:**

This project has been discussed and revised as to viability, capital expense, O&M reduction and recovery. This project was technically reviewed by the CPRT on 1/29/15. Related information was discussed with no comments that were left unanswered.



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	245,000				
Project Spend in Current Plan	245,000				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	245,000	245,000	245,000	245,000	245,000

(if applicable)

### O&M Cost Impact B/(W)

28,184	42,278	42,278	42,278	42,278
--------	--------	--------	--------	--------

### Financial Justification

The project will add \$245,000 to rate base while decreasing O&M sludge hauling expense by \$3,523.00/month once the project is fully operational based on the initial analysis. These savings are based on the last 12 months of actual sludge hauling expense from the Lake Groves WWTP.

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

#### Served Rate Payers

4	4
3,241	3,241

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	28,184	42,278	42,278	42,278	42,278
Depreciation Impact on EBIT B/(W)	(7,592)	(11,389)	(11,389)	(11,389)	(11,389)
Under-recovery on capital B/(W)	(11,199)	(16,799)	(17,653)	(18,507)	(19,361)
Net EBIT Impact B/(W)	9,393	14,091	13,236	12,382	11,528

### Timing and Supporting Information on Rate Recovery

The project is included as a proforma in the consolidated rate case to be filed in 3Q16.

### Regulatory Plan Implications

This project has been added to the 2015 capital plan.

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Eco Sciences	\$160,000	Yes
2	Patrick Anthony Technologies (Sludge Mate)	\$40,000	Yes
3	Eco 2000	\$40,000	Yes

### Component:

### Amount

Value Bid Elements

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

SolarOrganite

160,000.00

Site Work Eco -2000

40,000.00

Tractor Equipment

5,000.00

30 CY Flo-Trend Dewatering Box

40,000.00

Total Project Budget

245,000.00

should match Total Budget on General Information

Object Account(s) to which project will be closed:

1410

Plant Sewers Trtmt Plt

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

Patrick Anthony Technologies is the local representative of Flo-Trend, the manufacturer of the Sludge Mate dewatering box. Eco 2000 is a local utility contractor selected to construct the SolarOrganite unit per plans. Eco 2000 has completed a variety of projects for the utility on time, on budget, and with a high quality result. Eco Sciences is the sole source supplier of the proprietary technology to be used in this project. Therefore, no other qualified bidders were available.



## Approvals

### EAM Prime Review

Review Completed by

NA

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Martin Lashua

Date Held

1/29/2015

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

None.

### FP&A Review

Review Completed by

Christie Kincaid

Date:

2/5/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan K. Gongre

Date:

1/29/2015

☒

VP Operations:

Patrick C. Flynn

Date:

2/5/2015

☒

President:

John Hoy

Date:

2/5/2015

☒

### Approval or Re-Direction Comments





Superior Quality.  
Efficient Operations.  
Exceptional Service.

***SolarOrganite*** Pilot Test

Lake Groves & Pennbrooke WWTP's



## *Lake Utility Services, Inc.*

### **SolarOrganite® Biosolids Management Facility**

---

#### **Proposal & Scope of Work for Pilot Test Facility**

**Eco Sciences, LLC** proposes to design, co-build and license our patent pending SolarOrganite® Biosolids Management Facility for Lake Groves and Pennbrooke WWTF's. This site will have the opportunity to produce a safe class AA/EQ (Exceptional Quality) licensed fertilizer. This process will be proposed and installed as a pilot test operation that Lake Groves and Pennbrooke WWTF's will have the capability of continued operation as a volume reduction process Class A biosolids minimum (75% - 90%), or a class AA facility/EQ fertilizer facility.

The SolarOrganite® process is an environmentally friendly, volume reducing, sustainable, innovative and a cost effective method of reducing all sludge disposal costs by converting Biosolids into a safe Class A biosolids, or Class AA/EQ state licensed fertilizer using only solar energy meeting all State and Federal Regulations.

The following proposal covers the scope of work as follows:

- **License To Use the SolarOrganite® Patent Pending Process and Fee :**
  - SolarOrganite® License/Royalty Fees Included on One Time Basis
- **Patented SolarOrganite® Facility Design with SolarOrganite® Pasteurization/Drying Chamber:**
  - (1) 20' x 30' SolarOrganite® Pasteurization Chamber
  - Metallic Black Powder Coated Environmental Sealant
  - 54 Patented SolarOrganite® Panel Grid
  - Roller Channels and Expansion Length for Cultivation and Loading
  - Delivery and Installation with Wind Loading Anchorage
- **Pre-Processing Bio/Solids Solar Chamber**
  - (1) 20' x 30' SolarOrganite® Pre-Processing Waterproof Lexan Chamber
  - Wheel and Channel Structure for Processing
  - Metallic Black Powder Coated Environmental Sealant
  - Roller Channels and Expansion Length for Cultivation and Loading
  - Delivery and Installation with Wind Loading Anchorage

**NOTE - Both Pre-Processing Solar and Pasteurization Chambers Will Be Anchored For High Wind Conditions and Shall Be Secured Each Day After Cultivation. As This is a Pilot Test, Certified Engineering of Designed Project is not Mandated, nor Included.**

- **Odor Control System**
    - 400 CFM Carbon Adsorption System
    - 1 h.p. 120 Volt Single Phase, or 230 Volt Three Phase Blower (TBD)
    - 60" High x 40" Diameter Fiberglass Vessel
    - 19ft. cu. Granulated Carbon (Estimated 3 year capacity)
    - All P.V.C. Schd. 80 Duct, Fittings and Anchors
    - Quick Disconnects on Duct for Loading and Processing
    - (1) 120 Volt Humidifan for Processing Chamber
- **Turning Equipment:**
- Provided by owner
- *Site Work (Done by owner)*
  - Survey
  - Grading
  - Base Material
  - Concrete Floor (64' x 24' x 4") truck weight and 20' driveway
  - 20' x 30' White Rock Base for Panel Storage
  - 30' Concrete Runners and Posts for Panel Storage
  - 16" Block Poured Chamber Wall (20' x 60')
  - Chamber Steel Flooring (optional, may be added upon successful pilot)
  - 12' Access Opening for Loading and Processing
  - 6' x 6' x 4" Concrete Odor Control Slab
  - 120v. 20 amp. Service for Blower and Outlet for Fan
  - A Lot Permit or Full Permit Modification If Deemed Necessary
- **Training of Staff:**
- Included
- **Pilot Test System Goals & Assurances:**
  - Will Meet Class AA/EQ State Licensed Fertilizer Standards.
  - Volume Reduction (75% - 90%) to Class A Solids Minimum
  - Handle Current Capacity (20 yards) of WWTP Weekly Volume Under Normal Florida Conditions
  - The Facility Can be Expanded to Process Additional Sludge, or Class AA
  - Supplemental 20'x20'x4" Slab and Cover will be Provided by Eco Sciences Should Proposed Design not Meet Capacity for Lake Groves and Pennbrooke WWTP's.
  - Proper Sealant and Painting of Concrete Block Walls by Vendor
  - Three Year Parts and Labor Warranty on Aluminum Grid, Odor Control System and SolarOrganite Panels
  - Continuous Monitoring, Supervision and Minor Modifications to be Overseen by SolarOrganite Personnel

## **SolarOrganite Pilot Project Cost - \$160,000**

### **Proposed Payment Schedule**

Terms:

- \$80,000 upon signed agreement down payment.
- \$80,000 balance due upon completion of project.
- Proposal valid through 11-28-14 with verbal commitment.

**Sincerely,**

Gary V. Hammond  
**Eco Sciences, LLC**  
39829 County Road 452  
Leesburg, Florida 34788  
352-223-9844  
EcoSciences@gmail.com

# INVOICE

Date: February 6, 2015  
Invoice # 103

Eco Sciences, LLC  
39829 County Rd. 452  
Leesburg, FL 34788  
(352) 358-1222  
www.EcoSciencesLLC.com  
Ecosciences@gmail.com

3070125  
PO# 179086  
Receipt 187691

TO: Lake Utility Services, Inc.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714  
800-272-1919 x-1360

SALESPERSON	JOB	PAYMENT TERMS	DUE DATE
PMA	Lake Groves SolarOrganite	Due on Receipt	3-13-15

QUANTITY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	SolarOrganite Bio/Solids Treatment Pilot Test Facility	\$160,000.00	\$160,000.00
1	Patented SolarOrganite Pasteurization Chamber	Included	Included
1	Lexan Pre-processing Chamber	Included	Included
1	Carbon Odor Control System and Ductwork	Included	Included
1	Delivery, Installation and Testing Supervision	Included	Included

1	50% down payment for mobilization, balance due upon completion.	\$80,000.00	\$80,000.00
---	---	-------------	-------------

Subtotal	\$80,000.00
Sales Tax	Exempt On File
Total	\$80,000.00



*"It's Clean, Green and Seen as  
the Most Cost Effective Process"*

Make all checks payable to Eco Sciences, LLC  
THANK YOU FOR YOUR BUSINESS!

# INVOICE

3070125  
PO# 179086  
Recpt# 196124

Date: May 28, 2015  
Invoice # 106

Eco Sciences, LLC  
39829 County Rd. 452  
Leesburg, FL 34788  
(352) 358-1222  
www.EcoSciencesLLC.com  
Ecosciences@gmail.com

TO: Lake Utility Services, Inc.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714  
800-272-1919 x-1360

SALESPERSON	JOB	PAYMENT TERMS	DUE DATE
PMA	Lake Groves SolarOrganite	Due on Receipt	5-28-15

QUANTITY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	SolarOrganite Bio/Solids Treatment Pilot Test Facility	\$160,000.00	\$160,000.00
1	Patented SolarOrganite Pasteurization Chamber	Included	Included
1	Lexan Pre-processing Chamber	Included	Included
1	Carbon Odor Control System and Ductwork	Included	Included
1	Delivery, Installation and Testing Supervision	Included	Included

1	40% delivery of materials, 10% balance due upon completion	\$72,000.00	\$72,000.00
	Remaining Balance	\$8,000.00	\$8,000.00
	Subtotal		\$72,000.00
	Sales Tax		Exempt On File
	Total		\$72,000.00



*It's Clean, Green and Seen as  
the Most Cost Effective Process!*

Make all checks payable to Eco Sciences, LLC  
THANK YOU FOR YOUR BUSINESS!





ECO-2000, Inc.  
P.O. Box 2275  
Bushnell, FL 33513  
Phone: (352) 793-5060  
Fax: (352) 793-9074

3006123  
PO# 179091  
Rec# 199942

# Invoice

Account #	Date	Invoice #
	7/13/2015	15-7236

Bill To
<del>Utilities, Inc. of FL</del> /Solar Organite Lake Utility Services, Inc Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

Job #
ECO-1150

P.O. No.	Business Unit No.	Terms
		Due on receipt

Description	Qty	Rate	Total
LAKE GROVES WWTP Clermont, Florida		40,000.00	40,000.00
SOLAR ORGANITE SYSTEM			
CONCRETE			
- 64 x 24 slab 4in thick with a 12in x 16 in footing around perimeter, 2-#5 bars cont., uprights every 4ft			
- 12ft x 35ft approach, 6in thick with wire			
- 2 coarses of block around perimeter, with 1-#5 bar in top block tied to uprights			
ASPHALT			
- Excavate 6" down			
- Stabilize sub-base			
- Lay 6" Lime Rock			
- Compact Rock			
- 1-1/2" Asphalt			
Total			\$40,000.00

# PROPOSAL

Patrick Anthony Technologies, LLC  
3001 Lakeshore Dr.  
Mount Dora, FL 32757  
Phone 352-735-3352  
Fax 352-735-4019  
Email pat.anthony@comcast.net

Date: 3/30/2016  
Proposal # 7686

**To** Lake Utilities  
Hwy 27  
Clermont, FL  
407-948-9840  
Contact Bryan Gongre

<i>Salesperson</i>	<i>Site Location</i>	<i>Payment Terms</i>	<i>Delivery</i>
PMA	Lake Groves	Upon Receipt	4-12-16

<i>Quantity</i>	<i>Description</i>	<i>Unit Price</i>	<i>Line Total</i>
1	30-Yard FloTrend Sludge Mate with Tarp	\$40,000.00	\$40,000.00

<b>Subtotal</b>	\$40,000.00
<b>Delivery</b>	Included
<b>Total</b>	\$40,000.00



" Saving the environment with  
each innovative idea"

Make all checks payable to Patrick Anthony Technologies

**Thank you for your business!**

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-6**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



# ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project # 2016103

Requested by:

Bryan K. Gongre

Date: 9/12/2016

Project Manager / Area Manager

Project Name:

Oswalt Rd WM Relocation

Company:

251

Lake Utility Services Inc

Business Unit:

251106

LUSI North

Project Owner:

Bryan K. Gongre

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP: John Hoy 03

Region: Florida 04

Start Date:

9/19/2016

Q3 2016

State: FL

Estimated End Date:

10/31/2016

Q4 2016

Project Type:

Maintenance

Will project replace/retire any assets:

Yes

Previously Requested:

\$160,914

This Request:

\$20,486

Still to be Requested:

Total Project Budget:

\$181,400

## Description:

Remove and relocate approximately 1,280 LF of 8" C-900 PVC. Install (3) 8" GV's and (1) Air Release Valve that are in conflict with Lake County's design plans to widen sections of Oswalt Road and construct storm water improvements.

Change Order #1 - Install 600 LF of 8" HDPE via HDD method in lieu of open cut installation of 600 LF of 8" PVC and DIP water main.

## Timeline Considerations:

Our facilities must be relocated prior to the County's contractor performing the road and storm water improvements. The project has been placed out to bid by the County. Bids are to be received within 30 days.

Inter-dependant Project

Project Number:

Project Name

NA

(If applicable)

Have engineering evaluations been performed?

No

Engineering project number

(If applicable)

**Justification and Benefits:**

Our facilities are located within the Lake County right-of-way and as such must be relocated under the terms and conditions of the existing right-of-way permit. The existing water main is PVC and is required by Lake County to be removed after the new PVC water main is placed in service.

Change Order #1 - The plan set issued by Lake County for the project dated June 2016 depicted one chain link and one wooden fence line that was to be removed and relocated outside of the Lake County R.O.W. At some point between the June set of plans and a revised version, the call out for the fence removal was removed. The County made this decision in order to avoid conflicts with a homeowner and HOA but failed to inform the Utility. The water main to be relocated in these areas can not be installed by open cut without damaging the fence lines and the water main would end up on what the homeowner and HOA perceive to be their property although the new pipe is clearly within the R.O.W. If constructed as originally planned, future maintenance of these sections of pipeline would lead to accessibility and property issues that need to be avoided. The revised HDD installation of HDPE will allow the relocation to occur and avoid future disputes. With credits for the initial cost and the revised cost, there is a net increase in project cost of \$20,485.13.

**Risk Evaluation****Alternatives Considered:**

The existing water main is within the Lake County right-of-way and subject to the conditions of the County's permit conditions. Refusal to relocate and remove the pipe would mean receiving a notice to vacate the right-of-way issued by the County. Open cut and replace is the most cost effective approach and will be the direction taken under this project.

**Technical Review Summary:**

The project was presented to the CPRT on 9/15/16 with no comments received that would require revisions.





## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	181,400				
Project Spend in Current Plan	181,400				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	181,400	181,400	181,400	181,400	181,400

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--

### Financial Justification

Change Order #1 - The original cost for this project was \$160,914. The adjusted financials bring the new project cost to \$181,400.00 translating to an increase in overall project cost by \$20,486.00.

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
2.51	2.51
10,106	10,106

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(4,535)	(4,535)	(4,535)	(4,535)	(4,535)
Under-recovery on capital B/(W)		26,666	27,301	27,936	28,571
Net EBIT Impact B/(W)	(4,535)	22,131	22,766	23,401	24,036

### Timing and Supporting Information on Rate Recovery

This is a pro forma project with recovery scheduled to take place during the 2016 rate consolidation filing in June.

### Regulatory Plan Implications

This is a pro forma project with recovery scheduled to take place during the 2016 rate consolidation filing in June.

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$155,914	Yes
2	Boykin Construction	\$170,713	No
3	Central Florida Tapping	\$165,845	No

### Component:

### Amount

Value Bid Elements	155,914.00
Engineering	
Direct Purchase of Parts / Materials	
Landscaping / Site Restoration	
Other Components (specify):	
Cap Time	
Initial Survey & Design	5,000.00
Change Order #1	20,486.00

Total Project Budget

181,400.00

Object Account(s) to which project will be closed:

1125

Trans & Distr Mains  
select from dropdown list  
select from dropdown list  
select from dropdown list  
select from dropdown list

[Go to Reference List](#)

### General Comments:

Being that this relocation project is a like for like main replacement located within the same right-of-way, the FDEP permit is required resulting in the elimination of design and permit fees.



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 9/15/2017

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 9/15/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

No comments received.

### FP&A Review

Review Completed by John P. Hoy Date: 9/15/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 9/15/2016 ☒

VP Operations: Patrick C. Flynn Date: 9/15/2016 ☒

President: John P. Hoy Date: 9/15/2016 ☒

### Approval or Re-Direction Comments

Job Name **Oswalt Rd.**

Attention:

Job #:

Date: 9/1/2016



## BOYKIN CONSTRUCTION

116 W. Center Street \* PO Box 38

Minneola, Florida 34755

(352) 394-5993 phone (352) 394-8456 fax

Description	Quantity	UM	Unit Price	Total Cost
General Conditions	1	L/S	\$17,500.00	\$17,500.00
Pre-Con Video	1	L/S	\$3,500.00	\$3,500.00
Erosion Control	1	L/S	\$2,950.00	\$2,950.00
Layout & Survey	1	L/S	\$9,500.00	\$9,500.00
MOT	1	L/S	\$7,000.00	\$7,000.00
8" C-900 DR-18 PVC	1,160	L.F.	\$27.50	\$31,900.00
8" DIP	120	L.F.	\$35.95	\$4,314.00
Tie Ins	6	EA.	\$1,000.00	\$6,000.00
Jumpers	4	EA.	\$600.00	\$2,400.00
8" G.V	3	EA.	\$2,100.00	\$6,300.00
ARV	1	L/S	\$5,950.00	\$5,950.00
Fittings	1	EA.	\$16,999.00	\$16,999.00
Water Tie in	4	EA.	\$1,000.00	\$4,000.00
Driveway Crossing	1	EA.	\$2,500.00	\$2,500.00
Existing Water Removal	1,280	L.F.	\$30.00	\$38,400.00
Final Grading	1	L/S	\$3,500.00	\$3,500.00
Removal of Landscape	1	L/S	\$2,500.00	\$2,500.00
Testing	1	L/S	\$3,000.00	\$3,000.00
As-Builts	1	L/S	\$2,500.00	\$2,500.00
<b>Total</b>				<b>\$170,713.00</b>

undersigned:

Signature: \_\_\_\_\_



### Acceptance of Proposal

The above prices and conditions are hereby accepted. You are authorized to do the work as specified.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_



P.O. Box 521279  
 Longwood, FL 32752-1279  
 Phone: 407-834-8271  
 Fax: 407-834-3859

CU C055705  
 CB C045652  
 CONT. V 13942900011997

September 9, 2016

Bryan Gongre  
 Utilities, Inc.  
 200 Weathersfield Ave.  
 Altamonte Springs, Fl. 32714-4027

**Re: Oswalt Road Water Relocation**

Dear Bryan,

We propose the following,

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1	General Conditions	1	LS	\$ 19,800.00	\$ 19,800.00
2	Preconstruction Video	1	LS	\$ 1,380.00	\$ 1,380.00
3	Erosion Control	1	LS	\$ 2,070.00	\$ 2,070.00
4	Project Layout & Locates	1	LS	\$ 7,150.00	\$ 7,150.00
5	MOT	1	LS	\$ 7,590.00	\$ 7,590.00
6	8" DR-18 PVC	1160	LF	\$ 25.00	\$ 29,000.00
7	8" DIP	120	LF	\$ 35.00	\$ 4,200.00
8	Tie Ins	6	EA	\$ 1,150.00	\$ 6,900.00
9	Jumpers	4	EA	\$ 1,105.00	\$ 4,420.00
10	8" Gate Valve	3	EA	\$ 2,070.00	\$ 6,210.00
11	Fittings	1	LS	\$ 6,650.00	\$ 6,650.00
12	ARV	1	EA	\$ 11,500.00	\$ 11,500.00
13	Water Service Tie In	4	EA	\$ 700.00	\$ 2,800.00
14	Driveway Crossings	1	EA	\$ 1,105.00	\$ 1,105.00
15	Existing WM Removal	1280	LF	\$ 33.00	\$ 42,240.00
15	Final Dress	1	LS	\$ 4,150.00	\$ 4,150.00
16	Remove Landscaape	1	LS	\$ 2,530.00	\$ 2,530.00
17	Testing	1	LS	\$ 4,150.00	\$ 4,150.00
18	As Builts	1	LS	\$ 2,000.00	\$ 2,000.00
					<b>\$ 165,845.00</b>

If you have any questions please call.

Sincerely,

Rick Bullington



TRAVERSE GROUP, INC.

PO BOX 121754  
CLERMONT, FL 34712

# Estimate

Date	Estimate #
8/26/2016	2016UI49

Name / Address
UTILITIES, INC. OF FLORIDA 200 WEATHERSFIELD AVENUE ALTAMONTE SPRINGS, FL 32714

Project
OSWALT ROAD RELOCATION

Description	Qty	Units	Rate	Total
OSWALT ROAD WATERMAIN RELOCATION				
General Conditions	1	LS	17,500.00	17,500.00
PreConstruction Video	1	LS	2,500.00	2,500.00
Erosion Control	1	LS	2,750.00	2,750.00
Project Layout & Locates	1	LS	6,940.73	6,940.73
MOT	1	LS	7,750.00	7,750.00
8" C900 DR-18 PVC	1,160	LF	25.13	29,150.80
8" DIP	120	LF	33.93	4,071.60
Tie Ins	6	EA	900.00	5,400.00
Jumpers	4	EA	500.00	2,000.00
8" Gate Valves	3	EA	1,950.00	5,850.00
Air Release Valves	1	EA	6,500.00	6,500.00
Fittings	1	LS	17,500.00	17,500.00
Water Services	4	EA	700.00	2,800.00
Driveway Crossings	1	EA	1,950.00	1,950.00
Existing Watermain Removal	1,280	LF	25.00	32,000.00
Final Dress	1	LS	2,500.00	2,500.00
Remove Landscaping	1	LS	3,500.00	3,500.00
Testing	1	LS	3,500.00	3,500.00
As Builts	1	LS	1,750.00	1,750.00
<b>Total</b>				\$155,913.13

TRAVERSE GROUP, INC.

PO BOX 121754  
CLERMONT, FL 34712

# Estimate

Date	Estimate #
8/26/2016	2016UI49

Name / Address
UTILITIES, INC. OF FLORIDA 200 WEATHERSFIELD AVENUE ALTAMONTE SPRINGS, FL 32714

Project
OSWALT ROAD RELOCATION

Description	Qty	Units	Rate	Total
OSWALT ROAD WATERMAIN RELOCATION				
General Conditions	1	LS	17,500.00	17,500.00
PreConstruction Video	1	LS	2,500.00	2,500.00
Erosion Control	1	LS	2,750.00	2,750.00
Project Layout & Locates	1	LS	6,940.73	6,940.73
MOT	1	LS	7,750.00	7,750.00
8" C900 DR-18 PVC	1,160	LF	25.13	29,150.80
8" DIP	120	LF	33.93	4,071.60
Tie Ins	6	EA	900.00	5,400.00
Jumpers	4	EA	500.00	2,000.00
8" Gate Valves	3	EA	1,950.00	5,850.00
Air Release Valves	1	EA	6,500.00	6,500.00
Fittings	1	LS	17,500.00	17,500.00
Water Services	4	EA	700.00	2,800.00
Driveway Crossings	1	EA	1,950.00	1,950.00
Existing Watermain Removal	1,280	LF	25.00	32,000.00
Final Dress	1	LS	2,500.00	2,500.00
Remove Landscaping	1	LS	3,500.00	3,500.00
Testing	1	LS	3,500.00	3,500.00
As Builts	1	LS	1,750.00	1,750.00
CHANGE ORDER #1				
8" PVC Credit	480	LF	-25.13	-12,062.40
8" DIP Credit	120	LF	-33.93	-4,071.60
8" HDPE	600	LF	59.95	35,970.00
8" MJ Hub	2	EA	325.00	650.00
<b>Total</b>				\$176,399.13

SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 **THIS AGREEMENT**, made this 20th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Traverse Group, Inc., doing business as a Corporation and hereinafter called the Contractor.

1.02 The Owner and Contractor agree as follows:

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Oswalt Rd. WM Relocation Project

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 45 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth (1/4) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities: the Total Contract Price of One hundred fifty five thousand nine hundred thirteen dollars & 13/100's Dollars (\$ 155,913.13).

Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Traverse Group, Inc.  
Name of Firm

  
By (Signature)

(SEAL)

Alex Schaefer, President  
Printed Name and Title

Alicia R. [unclear]  
Corporate Secretary

ATTEST:

\_\_\_\_\_  
By (Signature)

\_\_\_\_\_  
Printed Name and Title

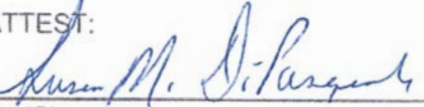
OWNER:

Utilities Inc. of Florida  
Name of Owner

  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:  
  
By (Signature)

Susan M. DiPasquale  
Printed Name and Title

END OF SECTION



3043813  
 PO# 225148  
 Recpt 236242

**APPLICATION AND CERTIFICATE FOR PAYMENT**

**AIA DOCUMENT G702 SUBSTITUTE**

Page 1 of 2

TO:  
 UTILITIES INC OF FLORIDA  
 LAKE UTILITIES  
 200 WEATHERSFIELD AVE  
 ALTAMONTE SPRINGS, FL

FROM:  
 TRAVERSE GROUP INC  
 PO BOX 121754  
 CLERMONT, FL 34712

Application Date: 9/28/2016  
 Application No.:  
 Period to:

2016UI49D1

**PROJECT: OSWALT ROAD WATERMAIN RELOCATION 2016**

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for Payment, as shown below, in connection with the Contract.

Continuation Sheet with schedule of values is attached.

The present status of the account for this Contract is as follows:

**CHANGE ORDER SUMMARY:**

NO.	ADD	Deduct
1		
2		
	\$0.00	\$0.00
<b>TOTAL</b>		<b>\$0.00</b>

ORIGINAL CONTRACT SUM	\$155,913.13
NET CHANGE BY CHANGE ORDERS	0.00
CONTRACT SUM TO DATE	\$155,913.13
TOTAL COMPLETED & STORED TO DATE	\$64,189.43
RETAINAGE @ 10%	6,418.94
TOTAL EARNED LESS RETAINAGE	\$64,189.43
LESS PREVIOUS CERTIFICATES FOR PAYMENT	0.00
<b>CURRENT PAYMENT DUE</b>	<b>\$64,189.43</b>

The undersigned Contractor certifies that to the best of his knowledge, information and belief the Work covered by this application for payment has been completed in accordance with the Contract Documents, that all amounts have been paid by him for work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown hereto is now due.

Contractor: **TRAVERSE GROUP INC**

BY: *Alicia Roehn - Corp Secretary 9/28/16*

**Schedule of Values Application and Certificate for Payment, containing Contractor's signed Certification is attached. In tabulations below, amounts are stated to the nearest dollar.**

Application Date: 9/28/2016  
Application No.:  
Period To:

2016UI49D1

A	B	C	D	E	F	G	H	
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED			TOTAL COMPL. & STORED TO DATE (D+E+F)	% (G/C)	BALANCE TO FINISH (C-G)
			PREVIOUS APPLICATIONS	THIS APPLICATION	10%			
				WORK IN PLACE	RETAINAGE			
1	GENERAL CONDITIONS	17,500.00	0.00	17,500.00	1,750.00	17,500.00	100%	0.00
2	PRE CONSTRUCTION VIDEO	2,500.00	0.00	2,500.00	250.00	2,500.00	100%	0.00
3	EROSION CONTROL	2,750.00	0.00	2,750.00	275.00	2,750.00	100%	0.00
4	PROJECT LAYOUT AND LOCATES	6,940.73	0.00	6,940.73	694.07	6,940.73	100%	0.00
5	MOT	7,750.00	0.00	2,712.50	271.25	2,712.50	35%	5,037.50
6	8" C-900 DR-18 PVC	29,150.80	0.00	14,575.40	1,457.54	14,575.40	50%	14,575.40
7	8" DIP	4,071.60	0.00	2,035.80	203.58	2,035.80	50%	2,035.80
8	TIE INS	5,400.00	0.00	0.00	0.00	0.00	0%	5,400.00
9	JUMPERS	2,000.00	0.00	0.00	0.00	0.00	0%	2,000.00
10	8" GATE VALVES	5,850.00	0.00	2,925.00	292.50	2,925.00	50%	2,925.00
11	ARV	6,500.00	0.00	0.00	0.00	0.00	0%	6,500.00
12	FITTINGS	17,500.00	0.00	8,750.00	875.00	8,750.00	50%	8,750.00
13	WATER SERVICE TIE IN	2,800.00	0.00	0.00	0.00	0.00	0%	2,800.00
14	DRIVEWAY CROSSING	1,950.00	0.00	0.00	0.00	0.00	0%	1,950.00
15	EXISTING WATER MAIN REMOVAL	32,000.00	0.00	0.00	0.00	0.00	0%	32,000.00
16	FINAL DRESS	2,500.00	0.00	0.00	0.00	0.00	0%	2,500.00
17	REMOVE LANDSCAPE	3,500.00	0.00	3,500.00	350.00	3,500.00	100%	0.00
18	TESTING	3,500.00	0.00	0.00	0.00	0.00	0%	3,500.00
19	ASBUILTS	1,750.00	0.00	0.00	0.00	0.00	0%	1,750.00
	TOTALS	\$155,913.13	\$0.00	\$64,189.43	\$6,418.94	\$64,189.43	41%	\$91,723.70

**TRAVERSE GROUP, INC.**

PO BOX 121754  
CLERMONT, FL 34712  
Phone # 352-409-6630  
aroehn@traverse-group.com

**Invoice**

Date	Invoice #
8/26/2016	2016UI43

**Bill To**

UTILITIES, INC. OF FLORIDA  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

3043813

PO# 223358

Recpt# 233089

P.O. No.	Terms	Project
WATER CONFLICT...	Due on receipt	WATER CONFLICT SURVEY

Description	Quantity	Units	Unit Price	Completion %	Total
OSWALT ROAD WM REALIGNMENT WATER CONFLICT SURVEY SURVEY WM CONFLICTS FOR LAKE COUNTY ROADWAY PROJECT Stake and Layout	1	LS	5,000.00		5,000.00
<b>Total</b>					<b>\$5,000.00</b>

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-7**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

# ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #:

2014072

Requested by:

Bryan K. Gongre

Date:

4/28/2014

Project Manager / Area Manager

Project Name:

LUSI SCADA Installation

Company:

251

Lake Utility Services Inc

Business Unit:

251106

LUSI North

Project Owner:

Patrick C. Flynn

Project Manager:

Bryan K. Gongre

Start Date:

5/12/2014

Q2 2014

Estimated End Date:

12/31/2014

Q4 2014

BU Type:

Water

Budget Owner / RVP:

John Hoy

03

Region:

VP-FL

04

State:

FL

Project Type:

EH&amp;S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$459,056

Still to be Requested:

Total Project Budget:

\$459,056

Object Account(s) to which project will be closed:

1365

Flow Measure Devices

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

## Description:

Design services, bidding and installation of a Supervisory Control and Data Acquisition system (SCADA) with CEI services for the Lake Utility Services Inc. service area to remotely monitor eleven (11) WTPs, one (1) reclaimed water plant, one (1) WWTF, five (5) well sites and eighteen (18) lift stations.



**JUSTIFICATION / ALTERNATIVES****Justification and Benefits:**

Lake Utilities Services, Inc. provides service to approximately 9,789 connections within unincorporated Lake County. There are eight (8) WTPs and five (5) well sites located in the LUSI North service area, one (1) WTP, one (1) WWTF, (1) reclaimed treatment plant and twenty-two (22) lift stations are located in the LUSI South service area, one (1) WTP is located in Montverde and one (1) WTP in Tavares. The LUSI North facilities are interconnected and situated at various elevations creating non-defined pressure zones within the system. Each of the WTPs has an assigned maximum day design capacity as established by FDEP. The facilities are operated according to system pressure differential through the means of mercoid switches that offer little control over the operation. These WTPs tend to compete against one another meaning that a particular facility can continue to run and exceed its max day design rating creating an exceedance and violating FDEP rules and regulations which state that no WTP shall be permitted to pump over its max. day design capacity. Several exceedances have occurred over the last few years that have triggered the need to address this matter. Short term solutions were implemented that have been marginally successful however the complete solution is to implement a SCADA system wherein the facilities can be better controlled and monitored to avoid future exceedances. This project will not only resolve this issue but provide for additional enhancements and O&M cost savings. All WTPs, the reclaimed treatment plant, portions of the WWTF, well sites and eighteen (18) of the lift stations all currently monitored by C&A systems for alarm notifications would now be monitored by SCADA eliminating the need for the C&A monitoring expense resulting in a projected O&M annual savings of \$7,788.00. However there is an offsetting annual SCADA maintenance fee resulting in a net zero effect. All alarms would be dispatched directly to our personnel omitting the need for alarm calls to be dispatched by our admin staff during normal business hours and Syntheny after hours. This will drastically improve response time and direct staff to a particular facility to address any problem. With the ability to graph and trend data, paper chart recorders will no longer be required. Pumping data can be directly inputted to the MORs and made accessible to authorized users for reporting purposes. The existing fully depreciated C&A alarm monitoring equipment can be repurposed by being used elsewhere in the Company eliminating the up front capital cost for another subsidiary to take advantage of as this equipment can be supported anywhere in the country. Lift station operating reports can be evaluated each morning to check for problems allowing the technician to prioritize the route and address these problems during normal business hours as opposed to not visiting a particular station that could result in OT and additional salary expense. Commercial power glitches that create false alarms and generate OT would be recognized eliminating the need to respond.

**Alternatives Considered:**

Create specified pressure zones by installing pressure control valves throughout the system. These assemblies would require a dual valve configuration to allow water to pass in either direction as determined by the pressure setting for each valve. A single bi-directional pressure control valve does not currently exist. It is estimated that several of these configurations would be required at a cost of approximately \$65,000.00 each. This option would likely resolve the max. day design pumping issue but would not provide the cost savings, operability and monitoring capability of a SCADA system. In 2006 LUSI successfully consolidated the LUSI North WTPs under a single PWS ID number that decreased the sampling frequency and expense associated with that effort. By installing the PCV assemblies and creating defined pressure zones within the LUSI North system this would likely create the need to break the system into more than one PWS and elevate expenses.

# CAPITAL PROJECT REVIEW CHECKLIST

		Yes	No
Does project meet the definition of a Capital Project? (> \$50k)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Does project meet the definition of a Capital Project? (Complete > 30 days)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has project been thoroughly investigated?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has project been added to Cap Plan Budget Template for Regional Consideration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
What is the proposed Initial Project Budget?	\$459,056		
What quarter does the project need to start?	2Q 2014		
Will any CIAC be collected? How much?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any engineering evaluations been performed?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
If yes, is the engineering a separate project?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have all alternatives been investigated? If so, what are they? Comment below		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the proposed project tied to a rate case? When?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have three bids been received? If not, why? List and provide amounts below		<input checked="" type="checkbox"/>	<input type="checkbox"/>
What are the repercussions if project is not approved? Comment below			
Are there any permits required to start the project?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Cap Ex add/change form complete?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has Cap Ex add/change form been submitted to project owner/manager to discuss with the CPRT?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other issue(s)? (use comments section below)		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Bid	Company	Amount	Selected
1	Revere Controls	\$470,000	No
2	ScadaOne	\$288,131	Yes
3	Sanders Company	\$398,843	No

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

9,789

\$0.59

per customer per month

15% estimate covers return, depreciation and taxes

## Comments:

## BUDGET BREAKDOWN

**459,056.34** should match Total Budget on Add-Change Form

**Lake Utility Services**  
**CP# 2014072      LUSI SCADA System**

[illegible]



1117 East Robinson Street  
Orlando, Florida 32801

Phone: 407.425.0452  
Fax: 407.648.1036

[www.cphengineers.com](http://www.cphengineers.com)

April 25, 2013

Mr. Bryan Gongre  
Regional Manager  
Lake Utility Services, Inc.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: LUSI SCADA Proposal

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the preparation of design requirements for a SCADA system for the Lake Utility Services, Inc. service area.

This scope of services includes the preparation of technical specifications for a SCADA system for the Lake Utility Services service area. The SCADA control can include the following items:

- access to all the well sites and data
- access to all water treatment plant controls and data
- access to wastewater plant/reclaimed water controls and data
- access to lift station data and emergency call service to replace C & A Systems

The specifications will be written to allow the Utility control of their system remotely. The central unit will be located at the Lake Groves WWTF operations building. A communications evaluation will be provided to determine the best means of communications between the sites and the central control location at the Lake Groves WWTF.

The technical specifications will be completed within three months and ready for bidding. A minimum of three bidders will be invited to bid on the project. This scope includes bidding assistance and coordination. The prospective bidders will prepare a comprehensive proposal, including cost and technical ability, and will be given the opportunity to formally present their qualifications with a hands on demonstration of their product. The bidders will be evaluated based on price, product, and service and a recommendation for award will be submitted to the Utility.

Environmental services are not included in this scope. Surveying is not included in this scope of services. Any required surveying will be additional to this contract. Geotechnical services are not included in the scope of services. This proposal does not include construction administration services.

#### **Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Preparing to serve as an expert witness for the Owner in any protest, litigation, or other proceeding involving the project.





Additional engineering services required by revisions to regulations (after the date of this contract) as applicable to the Florida Department of Environmental Protection, the St. Johns River Water Management District, or other regulatory agency requirements.

Provide, through a subconsultant, additional surveying services if required or requested by the Owner.

Provide, through a subconsultant, additional soils investigation services if required or requested by the Owner.

#### **Payment**

The engineering design fee for the services, described herein is estimated to be \$58,425.00, including the listed subconsultant fees and out of pocket expenses.

A 10% markup will be applied to subconsultant services coordinated through CPH.

Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

Sincerely,  
CPH, Inc.



Stephen N. Romano, P.E.  
Vice President/Associate

**ACCEPTED BY:**  
**LAKE UTILITY SERVICES, INC.**



Date: 5/31/13



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

March 7, 2014

Mr. Bryan Gongre  
Regional Manager  
Lake Utility Services, Inc.  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

RE: LUSI SCADA Construction Services Proposal

Mr. Gongre:

Thank you for the opportunity to present this proposal to perform the construction services associated with the SCADA improvements for the Lake Utility Services utility service area. Bailey Engineering Consultants (BEC) will be performing the direct SCADA coordination with ScadaOne and CPH will coordinate the utility operations with LUSI personnel. Services associated with this proposal include the following:

1. Project Coordination - This includes the project kickoff and coordination between ScadaOne and Utility personnel to ensure the SCADA installation and programming meets the design and operational needs of the Utility.
2. Shop Drawing Review - BEC will handle shop drawing review to ensure the equipment is provided in accordance with the design.
3. Clarifications/Conflict resolutions - CPH and BEC will provide any support necessary to resolve any site related clarifications for each SCADA location. This item includes programming and installation clarifications required to meet the needs of the Utility.
4. Site Inspections - BEC will provide site inspections of the various installation location to verify the equipment is being installed in accordance with the contract requirements.
5. System Testing and Startup - CPH and BEC will coordinate the full system startup and testing. This includes oversight of operator training and review of any O&M manuals or startup information.

No design or permitting services are including in the contract.

#### **Payment**

The engineering fee for the services, described herein is estimated to be \$35,000.00, including out of pocket expenses.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.



If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us and initial as indicated on Exhibit A.

If you have any questions please call me.

Sincerely,

CPH, INC.

A handwritten signature in blue ink, appearing to read 'Stephen N. Romano', written over a light blue rectangular background.

Stephen N. Romano, P.E.  
*Vice President/Associate*

**ACCEPTED BY:**  
**LAKE UTILITY SERVICES, INC.**

A handwritten signature in blue ink, appearing to read 'Bruce L. G.', written over a horizontal line.

Date: 6/23/14

## ATTACHMENT A – PRICING PROPOSAL

This pricing proposal is submitted by ScadaOne, LLC and represents the cost of providing a SCADA system upgrade to Lake County Utilities, Florida in accordance with their RFP No. \_\_\_\_\_.

The price is firm and fixed for a period of acceptance for ninety days following the date defined in the RFP for submittals.

### Initial Price

The initial contract price is \$288,131.34 dollars (written) broken down in the following Table.

Item	Description	Qty.	Unit Price	Extension
1	HMI Subsystem hardware including secondary operation location	1	Lump sum	\$5,000
2	HMI Subsystem software including all necessary licenses	1	Lump sum	\$38,079
3	Fiber optic system at Lake Groves	1	Lump sum	N/A
4	Modifications to existing PLC equipment and panels	1	Lump sum	\$20,000
5	Master Telemetry Unit	1	\$4,200	\$4,200
6	Remote Telemetry Unit	27	\$4,241	\$114,507
7	Remote well site panel modifications	11	\$3,200	\$35,200
8	Mobilization, etc.	1	Lump sum	\$10,000
9	Project Management, documentation, etc.	1	Lump sum	\$27,000
10	Start up, testing and training	1	Lump sum	\$13,500
	Miscellaneous (not included in above items)	1		\$20,645.34
Total Initial Price				<b>\$288,131.34</b>

\* This pricing is valid for either cellular or texting

Recurring Price.

The recurring costs for the SCADA system are as follows:

Monthly cost per site for RTU communications to be paid by Owner is  
\$3 - \$11

A quarterly one day site maintenance site visit is \$2,500 including all travel costs.

The above prices, excluding RTU communications, shall remain valid for a period of one year following final system acceptance. Subsequent annual costs will be based upon increases using a mutually acceptable, nationally recognized inflation index.

In the case of conflict between the numeric and written prices, the written price shall prevail.

Proposer agrees that the Work will be substantially complete within 210 calendar days after the date the City issues a Notice to Proceed to Contractor and completed and ready for final payment within 240 calendar days after the date the City issues a Notice to Proceed to Contractor.

Signed by an officer authorized by the proposer to commit the company to the above pricing:



Signature

April 18, 2014

Date

Kevin Mathes

Name

President

Position within proposer's company



# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd  
Suite 104  
Lakeland, FL 33811  
Phone: (888) 472-2321  
Fax: (863) 812-4490

## CHANGE ORDER

**BILL TO:** \_\_\_\_\_ **REMIT PAYMENTS TO:** \_\_\_\_\_

COMPANY: Lake Utility Services, Inc

NAME: Bryan Gongre

ADDRESS: 200 Weathersfield Ave.

CITY/STATE/ZIP: Altamonte Springs, FL 32748

PROJECT NAME: LUSI SCADA Improvements

COMPANY: ScadaOne, LLC

ATTN: Accounts Payable

ADDRESS: PO Box 456  
Mulberry, FL 33860

PROJECT NO: 1051

CHANGE ORDER DATE	REQUESTED BY	TITLE	CUSTOMER PO NO.	TERMS
9/11/14	Kevin Mathes	President		Net 30

DESCRIPTION	AMOUNT
Provide wireless links between three sites at Lake Groves Treatment Plant per attached proposal.	\$5,772.00

SUBTOTAL

TAX

TOTAL \$5,772.00

SEND ALL CORRESPONDENCE TO:  
SCADAONE, LLC  
PO BOX 456  
MULBERRY, FL 33860  
Phone 888-472-2321 Fax 863-812-4490

Bryan K. Gongre 9/11/2014  
AUTHORIZED BY: DATE:  
Bryan K. Gongre  
PRINT NAME

010000100100010101010100010101000100010101010010

ScadaOne, LLC.



# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd. Ste 104

Lakeland, FL 33811

888-4SCADA1 (472-2321)

Fax: 863-812-4490

January 30, 2015

Bryan K. Gongre

Regional Manager

~~Utilities, Inc. & its affiliates~~ Lake Utility Services, Inc.

200 Weathersfield Avenue

RE: RFP – SCADA System Upgrade. LUSI North Water Treatment Service Area, Changes to HMI

Per our meeting on December 17, 2014, we are pleased to provide you with this proposal for the additional cost to configure a Plant Meters page where manual data can be entered and logged, as well as making minor requested changes to the HMI for better functionality to the operators. These minor changes are to include, but not limited to:

- Acid Blower changes
- HSP Pressure on the HSP Page
- Transfer Pump Level on Transfer Pump Page
- GST Level on GST Controls Page
- CL2 to Hypochlorite Page
- Adding Generator on Lake Groves Overview Page
- Adding Alarm Silence and Reset to all pages

The total price for these professional services is \$ 4040.40 based on 40 hours at \$101.01/hr. Terms are monthly progress billings based on efforts expended, net 30. ScadaOne, at their discretion, may stop work if payments are greater than 45 days past due.

We look forward to working with you on this project. Feel free to contact me if you have any questions or need additional information.

Sincerely,

Jennifer Strickland

System Designer

863-397-1554

jstrickland@scadaone.com

Accepted:  2/20/15  
Bryan K. Gongre

February 2, 2016

Bryan K. Gongre  
Regional Manager  
Utilities, Inc. & its affiliates  
200 Weathersfield Avenue

RE: RFP – SCADA System Upgrade. LUSI North Water Treatment Service Area, Changes to Well Sites

Per your request to add the Q46 modules/flow meters to the well sites, we are pleased to provide you with this proposal for the additional cost.

There is a Q46 Module at the following sites. We will need an additional Mixed I/O card for the extra analog. Chlorine, PH and Temp.

Amber Hill - Lake Ridge  
Clermont II  
Crescent Bay

There are new flow meters at four of the sites. We will need an isolated 24vdc P.S. on Aux I/O Board for the pulse signal.

All wire and conduit was installed by John(IPS).

We will make terminations in the RTU panel.

The total price for these hardware changes with professional services is \$ 2,951.08. Terms are monthly progress billings based on efforts expended, net 30. ScadaOne, at their discretion, may stop work if payments are greater than 45 days past due.

We look forward to working with you on this project. Feel free to contact me if you have any questions or need additional information.

Sincerely,

# ***ScadaOne, LLC***

***www.scadaone.com***

2500 Drane Field Rd. Ste 104  
Lakeland, FL. 33811  
888-4SCADA1 (472-2321)  
Fax: 863-812-4490

Jennifer Strickland  
System Designer  
863-397-1554  
jstrickland@scadaone.com

Supplier 3063130

PO# 162009

Rec'd # 177824

**ScadaOne, LLC**

www.scadaone.com

2500 Drane Field Rd.  
Suite 104  
Lakeland, FL 33811  
888-472-2321**INVOICE**

Date	Invoice #
9/25/2014	1051-140925

**Bill To**Lake Utility Services, Inc.  
Bryan Gongre**Remit To:** ScadaOne, LLC  
PO Box 456  
Mulberry, FL. 33860**Project:** 1051 - LUSI, SCADA Improvemen

P.O. No.	Due Date
	10/25/2014

Description	Qty	Rate	Amount
HMI Subsystem software including all necessary licenses	0.18908	38,079.00	7,200.00
Mobilization	0.5	10,000.00	5,000.00
Project management, documentation, etc.	0.59259	27,000.00	16,000.00
Start up, testing and training	0.03704	13,500.00	500.00
Change Order #1			
Retainage (-10%)		-2,870.00	-2,870.00

Terms	Net 30
<b>Total</b>	
	\$25,830.00

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# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd.  
Suite 104  
Lakeland, FL 33811  
888-472-2321

## INVOICE

Date	Invoice #
12/5/2014	1051-41205

<b>Bill To</b>
Lake Utility Services, Inc. Bryan Gongre

3063130  
PO# 162009  
Recpt# 183438

**Remit To:** ScadaOne, LLC  
PO Box 456  
Mulberry, FL 33860

**Project:** 1051 - LUSI, SCADA Improvemen

P.O. No.	Due Date
	12/20/2014

Description	Qty	Rate	Amount
HMI Subsystem hardware including secondary operation location	0.9	5,000.00	4,500.00
HMI Subsystem software including all necessary licenses	0.7109	38,079.00	27,070.36
Modifications to existing PLC equipment and panels	0.9	20,000.00	18,000.00
Master Telemetry Unit	0.9	4,200.00	3,780.00
Remote Telemetry Unit	0.45	114,507.00	51,528.15
Mobilization	0.25	10,000.00	2,500.00
Start up, testing and training	0.213	13,500.00	2,875.50
Miscellaneous (not included in above items)	0.25	20,645.44	5,161.36
Change Order #1			
Wireless network at Lake Grove	1	5,772.00	5,772.00
Retainage		-12,118.74	-12,118.74

Terms	Net 15
<b>Total</b>	\$109,068.63

010000100100010101010100010101000100010101010010

# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd.  
Suite 104  
Lakeland, FL 33811  
888-472-2321

## INVOICE

Date	Invoice #
2/13/2015	1051-50217

**Bill To**

Lake Utility Services, Inc.  
Bryan Gongre

**Remit To:** ScadaOne, LLC  
PO Box 456  
Mulberry, FL 33860

3063130  
PO#162009  
Recpt 188632

**Project:** 1051 - LUSI, SCADA Improvemen

P.O. No.	Due Date
	2/28/2015

Description	Qty	Rate	Amount
Remote Telemetry Unit	0.47	114,507.00	53,818.29
Remote well site panel modifications	0.44318	35,200.00	15,600.00
Change Order #1			
Retainage		-6,941.83	-6,941.83

Terms	Net 15
<b>Total</b>	\$62,476.46

010000100100010101010100010101000100010101010010



# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd.  
Suite 104  
Lakeland, FL 33811  
888-472-2321

## INVOICE

Date	Invoice #
5/22/2015	1051-50522

<b>Bill To</b>
Lake Utility Services, Inc. Bryan Gongre

3063130  
PO# 162009  
Recpt. 195768

**Remit To:** ScadaOne, LLC  
PO Box 456  
Mulberry, FL 33860

**Project:** 1051 - LUSI, SCADA Improvemen

P.O. No.	Due Date
	6/21/2015

Description	Qty	Rate	Amount
Master Telemetry Unit	0.1	4,200.00	420.00
Remote Telemetry Unit	0.08	114,507.00	9,160.56
Remote well site panel modifications	0.3368	35,200.00	11,855.36
Mobilization	0.25	10,000.00	2,500.00
Project management, documentation, etc.	0.1	27,000.00	2,700.00
Miscellaneous (not included in above items)	0.55	20,645.44	11,354.99
Change Order #1			
Retainage		-3,799.09	-3,799.09

Terms	Net 30
<b>Total</b>	
\$34,191.82	

01000010001000101010101000101010001000100010101010010

# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd.  
Suite 104  
Lakeland, FL 33811  
888-472-2321 (office)  
863-812-4490 (fax)

## INVOICE

Date	Invoice #
10/2/2015	1051-51002

<b>Bill To</b>
Lake Utility Services, Inc. Bryan Gongre

RECEIVED

OCT 05 2015

3063130  
PO# 162009  
Recpt# 207252

**Remit To:** ScadaOne, LLC  
PO Box 456  
Mulberry, FL. 33860

**Project:** 1051 - LUSI, SCADA Improvemen

P.O. No.	Due Date
	11/1/2015

Description	Qty	Rate	Amount
HMI Subsystem hardware including secondary operation location		500.00	500.00
HMI Subsystem software including all necessary licenses		3,808.64	3,808.64
Modifications to existing PLC equipment and panels			0.00
Master Telemetry Unit			0.00
Remote Telemetry Unit			0.00
Remote well site panel modifications		4,224.64	4,224.64
Mobilization			0.00
Project management, documentation, etc.		5,600.00	5,600.00
Start up, testing and training		8,774.50	8,774.50
Miscellaneous (not included in above items)		2,064.55	2,064.55
Change Order #1			
Wireless network at Lake Grove			0.00
Change Order #2			
Change/Additions of screens		4,040.00	4,040.00
Retainage		-2,901.23	-2,901.23

**Terms** Net 30

**Total** \$26,111.10

010000100100010101010100010101000100010101010010

# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd.  
Suite 104  
Lakeland, FL 33811  
888-472-2321 (office)  
863-812-4490 (fax)

## INVOICE

Date	Invoice #
2/2/2016	1051-50202

<b>Bill To</b>
Lake Utility Services, Inc. Bryan Gongre

306313D  
PD# 162009  
Rept. 216614

**Remit To:** ScadaOne, LLC  
PO Box 456  
Mulberry, FL. 33860

**Project:** 1051 - LUSI, SCADA Improvemen

P.O. No.	Due Date
	2/17/2016

Description	Qty	Rate	Amount
HMI Subsystem hardware including secondary operation location	0	5,000.00	0.00
HMI Subsystem software including all necessary licenses	0	38,079.00	0.00
Modifications to existing PLC equipment and panels	1	2,000.00	2,000.00
Master Telemetry Unit	0	4,200.00	0.00
Remote Telemetry Unit	0	114,507.00	0.00
Remote well site panel modifications	1	3,520.00	3,520.00
Mobilization	0	10,000.00	0.00
Project management, documentation, etc.	1	2,700.00	2,700.00
Start up, testing and training	1	1,350.00	1,350.00
Miscellaneous (not included in above items)	1	2,064.54	2,064.54
Wireless network at Lake Grove (Change Order #1)	0	5,772.00	0.00
Changes to HMI (Change Order #2)	0	4,040.40	0.00
Additional hardware needed for flow meters and Q46 (Change Order #3)	1	2,951.08	2,951.08
Retainage from previous Invoices		28,630.89	28,630.89

Terms	Net 15
<b>Total</b>	
\$43,216.51	

010000100100010101010100010101000100010101010010



Invoice Number Account Number Date Due Page

9762809205 942074944-00001 04/20/16 2 of 6

Get Minutes Used	Get Data Used	Get Balance
#MIN + SEND	#DATA + SEND	#BAL + SEND

## Payments

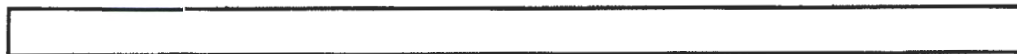
Previous Balance	\$779.84
Payment - Thank You	
Payment Received 03/14/16	-779.84
Total Payments	-\$779.84
Balance Forward	\$0.00

Written notations included with or on your payment will not be reviewed or honored. Please send correspondence to:  
Verizon Wireless Attn: Correspondence Team PO Box 5029 Wallingford, CT 06492

## Automatic Payment Enrollment for Account: 942074944-00001 UTILITIES INC

By signing below, you authorize Verizon Wireless to electronically debit your bank account each month for the total balance due on your account. The check you send will be used to setup Automatic Payment. You will be notified each month of the date and amount of the debit 10 days in advance of the payment. I understand and accept these terms. This agreement does not alter the terms of your existing Customer Agreement. I agree that Verizon Wireless is not liable for erroneous bill statements or incorrect debits to my account. To withdraw your authorization you must call Verizon Wireless. Check with your bank for any charges.

1. Check this box.
2. Sign name in box below, as shown on the bill and date.
3. Return this slip with your payment. Do not send a voided check.









*The Avanti Company*

SPECIALIZING IN FLOW METERS & METERING SOLUTIONS  
22 SOUTH LAKE AVENUE  
AVON PARK, FLORIDA 33825  
(863) 453-5336 (800) 284-5231  
FAX (863) 453-0085

3002413

PO# 171948  
Recpt#181495

# Invoice

Invoice Number  
113385

Invoice Date  
November 12, 2014

Page  
1

**Sold To:**

Lake Utility Services, Inc.

~~UTILITIES INC. OF FLORIDA~~  
ATTN ACCOUNTS PAYABLE  
2335 SANDERS ROAD  
NORTHBROOK, IL 60062

**Ship To:**

Lake Utility Services, Inc.

~~UTILITIES INC. OF FLORIDA~~  
200 WEATHERSFIELD AVENUE  
ATTN: BRYAN K. GONGRE  
ALTAMONTE SPRINGS, FL 32714

Customer ID UTILIT	Customer P.O. Number 171948	Payment Terms Net 30 Days
Sales Rep ID 001	Shipping Method UPS GROUND	Ship Date 11/12/14
		Due Date 12/12/14

Quantity	Item	Description	Unit Price	Extension
1.00	MCC E7000-002	MCCROMETER TRANSMITTER 4-20mA OUTPUT, WITH OPTO ISOLATED PULSE OUTPUT, FOR S/N 10-07668, *TAG: LAKE SAUNDERS	784.00	784.00
1.00	WSC 7-TR16-R	WATER SPECIALTIES IND.-TOT. RETROFIT KIT, FOR S/N 973453-6, *TAG: AMBER HILL	1,211.00	1,211.00
1.00	WSC 7-TR16-R	WATER SPECIALTIES IND.-TOT. RETROFIT KIT, FOR S/N 20030242-8, *TAG: LAKE RIDGE	1,211.00	1,211.00
1.00	WSC 7-TR15-R	WATER SPECIALTIES TOTALIZER TRANSMITTER, RETROFIT, FOR S/N 873163-6, *TAG: CRESCENT BAY	957.00	957.00
1.00	WSC 7-TR15-R	WATER SPECIALTIES TOTALIZER TRANSMITTER, RETROFIT, FOR S/N 911520-8, *TAG: LAKE CRESCENT HILL	957.00	957.00
1.00	WSC 7-TR15-R	WATER SPECIALTIES TOTALIZER TRANSMITTER, RETROFIT, FOR S/N 20121345-6, *TAG: CRESCENT WEST	957.00	957.00
1.00	WSC 7-TR16-R	WATER SPECIALTIES IND.-TOT. RETROFIT KIT, FOR S/N 20051449-20, *TAG: C.R. 561	1,211.00	1,211.00
1.00	WSC 7-TR16-R	WATER SPECIALTIES IND.-TOT. RETROFIT KIT, FOR	1,211.00	1,211.00

Customer Phone #:800-272-1919

Customer Fax 407-869-6961

Provide 2014 annual resale certificate to the Avanti Company or sales tax will be applied on subsequent invoices. All returns are subject to 25% restocking fee. See packing slip for details. Thank you.

Subtotal

Sales Tax

Freight

Total Invoice Amount

Payment Received

**TOTAL DUE**

Continued

Continued

Continued

Continued

0.00

Continued

For your convenience, we accept Visa, Mastercard and American Express





*The Avanti Company*

SPECIALIZING IN FLOW METERS & METERING SOLUTIONS  
22 SOUTH LAKE AVENUE  
AVON PARK, FLORIDA 33825  
(863) 453-5336 (800) 284-5231  
FAX (863) 453-0085

# Invoice

Invoice Number  
113385

Invoice Date  
November 12, 2014

Page  
2

**Sold To:**

Lake Utility Services, Inc.  
~~UTILITIES INC. OF FLORIDA~~  
ATTN ACCOUNTS PAYABLE  
2335 SANDERS ROAD  
NORTHBROOK, IL 60062

**Ship To:**

Lake Utility Services, Inc.  
~~UTILITIES INC. OF FLORIDA~~  
200 WEATHERSFIELD AVENUE  
ATTN: BRYAN K. GONGRE  
ALTAMONTE SPRINGS, FL 32714

Customer ID UTILIT	Customer P.O. Number 171948	Payment Terms Net 30 Days	
Sales Rep ID 001	Shipping Method UPS GROUND	Ship Date 11/12/14	Due Date 12/12/14

Quantity	Item	Description	Unit Price	Extension
1.00	MCC E7000-002	S/N 20121335-6, *TAG: ORANGES W-O MCCROMETER TRANSMITTER 4-20mA OUTPUT, WITH OPTO ISOLATED PULSE OUTPUT, FOR S/N 99-09176, *TAG: VISTA'S W-1	784.00	784.00
1.00	WSC 7-TR15-R	WATER SPECIALTIES TOTALIZER TRANSMITTER, RETROFIT, FOR S/N 20081876-6, *TAG: VISTA'S W-2	957.00	957.00
1.00	WSC 7-TR16-R	WATER SPECIALTIES IND.-TOT. RETROFIT KIT, FOR S/N 20040185-8, *TAG: VISTA'S W-3	1,211.00	1,211.00

Customer Phone #800-272-1919  
Customer Fax 407-869-6961

Provide 2014 annual resale certificate to the Avanti  
Company or sales tax will be applied on subsequent  
invoices. All returns are subject to 25% restocking fee.  
See packing slip for details. Thank you.

Subtotal	11,451.00
Sales Tax	737.06
Freight	100.00
Total Invoice Amount	12,288.06
Payment Received	0.00
<b>TOTAL DUE</b>	<b>\$12,288.06</b>

For your convenience, we accept Visa, Mastercard and American Express



SPECIALIZING IN FLOW METERS & METERING SOLUTIONS  
22 SOUTH LAKE AVENUE  
AVON PARK, FLORIDA 33825  
(863) 453-5336 (800) 284-5231  
FAX (863) 453-0085

# Invoice

Invoice Number  
113760

Invoice Date  
January 19, 2015

Page  
1

**Sold To:**

UTILITIES INC. OF FLORIDA  
ATTN ACCOUNTS PAYABLE  
2335 SANDERS ROAD  
NORTHBROOK, IL 60062

**Ship To:**

LAKE UTILITY SERVICES, INC.  
2425 US HWY 27  
CLERMONT, FL 34714

Customer ID  
UTILIT

Customer P.O. Number  
BRYANG

Payment Terms  
Net 30 Days

Sales Rep ID  
001

Shipping Method  
UPS

Ship Date  
1/15/15

Due Date  
2/18/15

<u>Quantity</u>	<u>Item</u>	<u>Description</u>	<u>Unit Price</u>	<u>Extension</u>
1.00	WSC 7-TR16-R	WATER SPECIALTIES IND.-TOT. RETROFIT KIT FOR S/N 20053485. NEW S/N E15-00166	1,211.00	1,211.00

Customer Phone #800-272-1919

Customer Fax 407-869-6961

Provide 2015 annual resale certificate to the Avanti  
Company or sales tax will be applied on subsequent  
invoices. All returns are subject to 25% restocking fee.  
See packing slip for details. Thank you.

Subtotal 1,211.00

Sales Tax 84.77

Freight 32.65

Total Invoice Amount 1,328.42

Payment Received 0.00

**TOTAL DUE \$1,328.42**

For your convenience, we accept Visa, Mastercard and American Express

**AVANTI COMPANY, INC., (THE)**22 SOUTH LAKE AVENUE  
AVON PARK, FL 33825-3902**INVOICE**

Invoice Number: 114224

Invoice Date: Mar 26, 2015

Page: 1

Duplicate

Voice: (863) 453-5336

Fax: (863) 453-0085

**Bill To:**~~UTILITIES INC. OF FLORIDA~~ Lake Utility Services, Inc.  
ATTN ACCOUNTS PAYABLE  
2335 SANDERS ROAD  
NORTHBROOK, IL 60062**Ship to:**~~UTILITIES INC. OF FLORIDA~~ Lake Utility Services, Inc.  
200 WEATHERSFIELD AVENUE  
ATTN: BRYAN K. GONGRE  
ALTAMONTE SPRINGS, FL 32714

Customer ID	Customer PO	Payment Terms	
UTILIT	171948	Net 30 Days	
Sales Rep ID	Shipping Method	Ship Date	Due Date
015	SC ON-SITE	3/26/15	4/25/15

Quantity	Item	Description	Unit Price	Amount
9.00	AVA INSTALL/START-UP	INSTALLATION OF TRANSMITTERS ON EXISTING FLOW METERS *LAKE SAUNDERS, AMBER HILL, LAKE RIDGE, CRESCENT BAY, CRESCENT HILL, CRESCENT WEST, ORANGES W-O, VISTA'S W-2, VISTA'S W-3 *C.R 561 WAS ALREADY FITTED WITH A TRANSMITTER, VISTA'S W-1 REQUIRES ADDITIONAL PARTS, FOUND BROKEN	125.00	1,125.00
Subtotal				1,125.00
Sales Tax				
Total Invoice Amount				1,125.00
Payment/Credit Applied				
<b>TOTAL</b>				<b>1,125.00</b>

Check/Credit Memo No:

Overdue invoices are subject to finance charges.



Innovative Metering Solutions, Inc.  
2501-A Merchant Ave.  
Odessa, FL 33556  
Ph: 727.375.9701  
Fax: 727.375.9703

3027058  
PO# 171652  
Recpt# 181297

# Invoice

Date	Invoice #
11/11/2014	5774

<b>Bill To</b>
Utilities, Inc Accounts Payable 2335 Sanders Road Northbrook, IL 60062-6108

<b>Ship To</b>
Lake Utility Services, Inc. 2425 US Hwy 27 Clermont, FL 34714 Attn: Chuck Schwades

PO #	IMS Quote #	Rep	Ship	Via	F.O.B.	Terms
PO# 171652	SRC	SRC	11/11/2014	UPS	Odessa, FL	Net 30
Quantity	Description			Price Each		Amount
3	Badger Model ER 420 LP Electronic Register (Provides 4-20mA and pulse output)			850.00		2,550.00
	UPS Shipping / handling charge			25.00		25.00
	Lake County Sales Tax Surcharge on \$5000, 1%			25.75		25.75
	State of Florida General Sales Tax - 6%			6.00%		154.50

Thank you for your business. Please remit payment to the above address. Please see our website for payment and return terms and conditions.

<b>Total</b>	<b>\$2,755.25</b>
--------------	-------------------

[www.inmetering.com](http://www.inmetering.com)

Innovative Property Services  
877 W Minneola Ave. 121106  
Clermont FL 34712

~~300~~  
3065193  
PO# 172737  
Rec# 182031

# Invoice

Date	Invoice #
11/19/2014	1140A

<b>Bill To</b>
Lake Utility Services, Inc. 2335 Sanders Road Northbrook, IL 60062

P.O. No.	Terms	Project
	Net 15	LUSI

Item	Description	Est Amt	Prior Amt	Prior %	Qty	Rate	Curr %	Total %	Amount
Service	Cressant Bay WTP Remove CI17 and install The Chlorine Monitor Q46H-62/63 re connect the chlorine monitor to the existing controls and alarms by extending the carflex from the junction box. Connect and configure the Q46H-62/63 to the Well control lockout	360.00			8	45.00	100.00%	100.00%	360.00

						<b>Subtotal</b>	\$360.00
						<b>Sales Tax (7.0%)</b>	\$0.00
						<b>Total</b>	\$360.00
						<b>Payments/Credits</b>	\$0.00
						<b>Balance Due</b>	\$360.00

Pay online at: <https://ipn.intuit.com/fhhr2shb>



**Innovative Property Services**

877 W Minneola Ave. 121106  
Clermont FL 34712  
352-989-4200

**Invoice**

Date	Invoice #
12/27/2014	1183A

Bill To

VISTAS WTP  
2335 Sanders Road  
Northbrook, IL 60062

3065193  
PO 172737  
Recpt. 185220

P.O. Number	B.U. Number	Account #	Location		
			VISTAS WTP Q46		
Item	Description		Qty	Rate	Amount
Service	Vistas WTP  Remove CI17 and install The Chlorine Monitor Q46H-62/63 re connect the chlorine monitor to the existing controls and alarms by extending the carflex from the junction box.		1	250.00	250.00

Completed 12/30/14

**Subtotal** \$250.00**Sales Tax (7.0%)** \$0.00**Total** \$250.00

john@ipscfl.com

**Innovative Property Services**

877 W Minneola Ave. 121106  
Clermont FL 34712  
352-989-4200

**Invoice**

Date	Invoice #
1/6/2015	1191A

**Bill To**

Lake Utility Services, Inc.  
2335 Sanders Road  
Northbrook, IL 60062

3065193  
PO# 172737  
Repl# 185613

P.O. #	B.U. #	Account #	JOB #	Location		
				Lake Groves		
Item	Description			Qty	Rate	Amount
Service	561 WTP Remove CI17 and install The Chlorine Monitor Q46H-62/63 re connect the chlorine monitor to the existing controls and alarms by extending the carflex from the junction box. The 4-20 ma signal cable may just be long enough to reconnect, if not an additional fee will be required to pull new wire back to the PLC.				250.00	250.00

All work complete 1/6/15

john@ipscfl.com

<b>Subtotal</b>	\$250.00
<b>Sales Tax (7.0%)</b>	\$0.00
<b>Total</b>	\$250.00

Innovative Property Services

877 W Minneola Ave. 121106  
Clermont FL 34712

# Estimate

Date	Estimate #
11/4/2014	1405

Name / Address
Lake Utility Services, Inc. 2335 Sanders Road Northbrook, IL 60062

Project
LUSI

Description	Qty	Rate	Total
Lake Louisa WTP Remove CI17 and install The Chlorine Monitor Q46H-62/63 re connect the chlorine monitor to the existing controls and alarms by extending the carflex from the junction box.		250.00	250.00
<b>Total</b>			\$250.00

**Innovative Property Services**

877 W Minneola Ave. 121106  
Clermont FL 34712  
352-989-4200

**Invoice**

Date	Invoice #
1/17/2015	1215A

Bill To

Lake Utility Services, Inc.  
2335 Sanders Road  
Northbrook, IL 60062

~~306~~  
3065193  
PO 178084  
Recpt. 186606

P.O. #	B.U. #	Account #	JOB #	Location
			J15012	LAKE RIDGE WTP
Item	Description	Qty	Rate	Amount
Service	Install 3 shielded cables from Lake Ridge WTP to Amber Hill WTP (CL2, PSI, Totalizer,) using the existing conduit as per instructed.	8	45.00	360.00
Material	Materials		486.00	486.00
	Note: Pulled a total of 6 pairs of shielded wire and left 2 spare 14awg stranded			

All work complete

john@ipscfl.com

Subtotal	\$846.00
Sales Tax (7.0%)	\$0.00
Total	\$846.00

**Innovative Property Services**

877 W Minneola Ave. 121106

Clermont FL 34712

352-989-4200

**Invoice**

Date

Invoice #

2/10/2015

1228A

Bill To

Lake Utility Services, Inc.  
2335 Sanders Road  
Northbrook, IL 60062

Supplier 3065193

PO 172737

Recpt 188404

P.O. #	B.U. #	Account #	JOB #	Location		
			J15048	Vistas WTP Totalizers		
Item	Description			Qty	Rate	Amount
	LUSI Vistas Install Totalizer 4/18 awg shielded cable for wells 1,2 and 3					
Service	Install junction boxes on well #1 and well #2 limit switch conduits( limit switches are unused on 1 and removed on #2), trench from well #3 to well #1 junction box., from the junction boxes trench to the Totalizer locations on wells 1&2 and splice to Totalizer installed by customer. for each Totalizer pull a 4 wire 18awg shielded cable to the PLC			1	400.00	400.00
Materials	Miscellaneous materials				200.00	200.00

All work complete

Subtotal \$600.00

Sales Tax (7.0%) \$0.00

Total \$600.00

john@ipscfl.com



**Innovative Property Services**

877 W Minneola Ave. 121106  
Clermont FL 34712  
352-989-4200

**Invoice**

Date	Invoice #
1/22/2015	1217A

**Bill To**

Lake Utility Services, Inc.  
2335 Sanders Road  
Northbrook, IL 60062

P.O. #	B.U. #	Account #	JOB #	Location		
			J15007	Badger meter upgrades		
Item	Description			Qty	Rate	Amount
Service	Install Electronic badger meters ER-420 remote mount version at Clermont I WTP, Clermont II WTP and 4 lakes WTP. The work consist of mounting Controller at operators discretion, installing conduits from the controllers to the Badger meters a 4/18 awg wire shielded cable will be installed to provide a optional scaled pulse output or an analog output.				465.00	465.00

All work complete

john@ipscfl.com

<b>Subtotal</b>	\$465.00
<b>Sales Tax (7.0%)</b>	\$0.00
<b>Total</b>	\$465.00

**Innovative Property Services**877 W Minneola Ave. 121106  
Clermont FL 34712

352-989-4200

**Invoice**

Date

Invoice #

11/14/2015

1555A

**Bill To**Lake Utilities Services, Inc  
2335 Sanders Road  
Northbrook, IL 600623063193  
PO# 201152  
Recpt 210415

P.O. #	B.U. #	Account #	JOB #	Location	
			J15359	Crescent Hills WTP	
Item	Description		Qty	Rate	Amount
Service	Lake Crescent Hills WTP, Crescent West WTP Run 250' of schedule 40 PVC conduit from Lake Crescent Hills to Crescent West and tie into existing conduits outside of the fence to get into the control panel and the junction box.		250	5.00	1,250.00
	Pull 4 wire shielded 18awg analog signal with a 14awg ground from Lake Crescent Hills WTP to Crescent West WTP.				
Material	Belden 5302FE 008500 shielded multiconductor cable, 4 conductor, 18AWG, 300V		1	250.00	250.00
Material	Conduit and miscellaneous materials		1	140.00	140.00
	This does not included replacing any sod and or hedges that may have to be removed.				

**Subtotal** \$1,640.00**Sales Tax (7.0%)** \$0.00**Credits** \$0.00**Balance Due** \$1,640.00

john@ipscfl.com



3008021  
PO# 174348  
Recpt# 182748

# Invoice

Date	Invoice #
11/24/2014	14-1082

<b>Bill To:</b>
Utilities, Inc. Attention: Accounts Payable 2335 Sanders Road Northbrook, IL 60062

<b>Ship To:</b>
Lake Utility Services, Inc. Attention: Accounts Payable 2335 Sanders Road Northbrook, IL 60062

P.O. Number	Terms
?????	NET 30 Days

Project
14-041

Qty.	Item Code	Description	Price Each	Amount
	Biz Unit #	?????	0.00	0.00T
	Job ID	Lake Groves WTP	0.00	0.00T
4.5	Travel	Emergency Service Call Travel to/from Job Site	250.00	1,125.00T
295	Mileage	Mileage to/from Job Site	0.55	162.25T
1.5	On-Site	Emergency Service Call On-Site time to re-load programs on PLC and OIT, change IP addresses for SCADAOne, Test, and Confirm proper operation	250.00	375.00T
1	Expenses	Hotel Lodging for After-Hours Emergency Service Call	83.42	83.42T
		Sales Tax	7.00%	122.20

**Please remit to:**  
kW Controls, Inc.  
115 Corporation Way  
Suite B  
Venice, FL 34285

<b>Total</b>	\$1,867.87
--------------	------------



Supplier 3008021  
PO# 172304  
Recpt# 185700

RECEIVED  
JAN 08 2015

# Invoice

Date	Invoice #
1/5/2015	15-1003

<b>Bill To:</b>
<del>Utilities, Inc.</del> Lake Utility Services, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

<b>Ship To:</b>
Lake Utility Services, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

P.O. Number		Terms		Project	
172304		NET 30 Days		14-041	
Qty.	Item Code	Description		Price Each	Amount
0.5	Job ID Draw	Addition of signals to Lake Utilities Systems Vistas WTP, completion of addition of Analog Input Module, completion of installation of new analyzer for distribution chlorine, pH, and temperature. Programming of PLC and HMI and testing of signal accuracy		0.00 3,750.00	0.00T 1,875.00T
0.75	Draw	Lake Louisa Booster, completion of addition of Analog Input Module, completion of installation of new analyzer for distribution chlorine, pH, and temperature. Programming of PLC and HMI and testing of signal accuracy		5,420.00	4,065.00T
1	Complete	Lake Groves WTP, completion of flow rate and totalization of two well flow-meters, Programming of PLC and HMI and testing of signal accuracy		1,625.00	1,625.00
		Sales Tax		7.00%	415.80

**Please remit to:**  
kW Controls, Inc.  
115 Corporation Way  
Suite B  
Venice, FL 34285

**Total** \$7,980.80





3008021  
PO# 172304  
Rec'd 1/8/6662

# Invoice

Date	Invoice #
1/19/2015	15-1005

<b>Bill To:</b>
Utilities, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

<b>Ship To:</b>
Lake Utility Services, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

P.O. Number		Terms	Project	
172304		NET 30 Days	14-041	
Qty.	Item Code	Description	Price Each	Amount
0.25	Job ID Complete	Addition of signals to Lake Utilities Systems Lake Louisa Booster, completion of flow totalization signals. Install conductors, wire to meter and PLC using isolation relays, program flow totals and test.	0.00 5,420.00	0.00T 1,355.00T
1	Complete	CR561 WTP, completion of installation of new conductors for distribution pH and temperature to chlorine signal. Programming of PLC and HMI and testing of signal accuracy. Sales Tax	1,540.00  7.00%	1,540.00  94.85
<b>Total</b>				\$2,989.85

**Please remit to:**  
kW Controls, Inc.  
115 Corporation Way  
Suite B  
Venice, FL 34285

RECEIVED  
JAN 23 2015



# Invoice



RECEIVED  
MAR 06 2015

Date	Invoice #
3/4/2015	15-1012

Bill To:
Utilities, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

Ship To:
Lake Utility Services, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

P.O. Number		Terms	Project	
Verbal-Domenic		NET 30 Days	14-041	
Qty.	Item Code	Description	Price Each	Amount
1	Job ID Complete	Lake Groves WTP - Master SCADA Project Add flow totalization using math calculations based on new flow rate to Well #3 via wireless signal Sales Tax	0.00 1,370.00 7.00%	0.00T 1,370.00 0.00
Please remit to:			Total \$1,370.00	

kW Controls, Inc.  
115 Corporation Way  
Suite B  
Venice, FL 34285

Supplier 3008021  
PO# 172304  
Receipt 189663



3008021  
PO# 172304  
Rec# 194774

# Invoice

Date	Invoice #
5/6/2015	15-1030

<b>Bill To:</b>
Utilities, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

<b>Ship To:</b>
Lake Utility Services, Inc. Attention: Bryan Gongre 200 Weathersfield Avenue Altamonte Springs, FL 32714

P.O. Number		Terms		Project	
172304		NET 30 Days		14-041	
Qty.	Item Code	Description	Price Each	Amount	
0.5	Job ID Complete	Addition of SCADA signals for Lake Utilities Systems Vistas WTP, completion of flow rate and totalization of (3) well flow-meters, programming of PLC and testing of signal accuracy	0.00	0.00T	
1	Tax	Balance of tax due	3,750.00	1,875.00	
		Sales Tax	127.05	127.05	
			7.00%	0.00	
<b>Total</b>				\$2,002.05	

**Please remit to:**  
kW Controls, Inc.  
115 Corporation Way  
Suite B  
Venice, FL 34285

RECEIVED  
MAY 8 0 2015

300-1 Richey Rd  
Leesburg, FL 34748

Supplier 3057925  
PO# 177233  
Receipt 185801

Date	Invoice #
12/22/2014	374

Bill To

---

Sanlando Utilities Corporation  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

P.O. No.	Terms	Project

Item	Description	Est Amt	Prior Amt	Prior %	Qty	Rate	Curr %	Total %	Amount
16 labor	9 pressure transmitters Rosemont 2088	19,665.00			0.84556	*****	84.56%	84.56%	16,628.00

<b>Total</b>	<b>\$16,628.00</b>
--------------	--------------------

<b>Payments/Credits</b>	<b>\$0.00</b>
-------------------------	---------------

<b>Balance Due</b>	<b>\$16,628.00</b>
--------------------	--------------------

North Lake Electric Inc.

300-1 Richey Rd  
Leesburg, FL 34748

# Invoice

Date	Invoice #
4/6/2015	398

Bill To
<del>Sanlando Utilities Corporation</del> LAKE UTILITY SERVICES, INC. 200 Weathersfield Ave. Altamonte Springs, FL 32714

Supplier 3057925  
PO 177233  
Recpt. 192078

P.O. No.	Terms	Project

Item	Description	Est Amt	Prior Amt	Prior %	Qty	Rate	Curr %	Total %	Amount
16 labor	install 9 pressure transmitters Rosemont 2088	19,665.00	16,628.00	84.56%	0.15444	*****	15.44%	100.00%	3,037.00

						<b>Total</b>	\$3,037.00
						<b>Payments/Credits</b>	\$0.00
						<b>Balance Due</b>	\$3,037.00



**ODYSSEY**  
MANUFACTURING CO.

**Odyssey Manufacturing Company**

1484 Massaro Blvd.  
Tampa, FL 33619

Telephone: 813/635-0339

**Invoice 210474**

Invoice Date 10/24/14

Supplier 3004892

PO# 171696

Recpt# 180604

**Bill To:**

Lake Groves Utilities, Inc.  
Attn: Accounts Payable  
2335 Sanders Road  
Northbrook, IL 60062

**Ship To:**

Lake Groves Water Plant  
Phone: 352-242-6573  
2425 US Hwy 27  
Clermont, FL 34711

Customer	Ship Via	F.O.B.		Terms		
LGU01	Odyssey Mfg.	Destination		Net 30 Days		
Purchase Order Number			Salesperson	Order Date	Our Order Number	
BU251102/171696				10/24/14		
Quantity Ordered	Quantity Shipped	Item Number	Unit of Measure	Unit Price		Extended Price
	Back Ordered	Item Description		Discount %	Tax	
2	2	PARTS	GAL	975.000		1950.00
	0	ORP Analyzer			Y	



3067789  
 PO# 172302  
 Receipt # 183436



Instruments, Valves & Fittings

## Volition Controls Corp.

333 N. Falkenburg Rd.  
 Unit A-113  
 Tampa, FL 33619  
 Phone #: 801-842-2898  
 Sales@VolitionCC.com  
 www.VolitionCC.com

## Invoice

Invoice #

14-10038

Date

Due Date

12/8/2014

1/7/2015

Sales Order No: 140020

Purchase Order

Project / Job

Payment Terms

Ship(ped) Date

Ship Via

172302

Net 30

11/25/2014

ALLOWED

### Bill To

Utilities, Inc.  
 Accounts Payable  
 2335 Sanders Rd.  
 Northbrook, IL 60062  
 T: 321-388-7895

### Ship To

Lake Utilities Service, Inc  
 Attn: Domenic Gentilucci  
 2425 US Highway 27  
 Clermont, FL 34714

Description	Quantity	U/M	Unit Price	S.O. No.	Total Amount
*** **					
SEND INVOICE TO:					
Bryan Gongre					
BKGongre@UIWater.com					
*** **					
U.P.S. Tracking #: 1Z6782E50357153825					
Residual Chlorine Monitor, Q46H-62	3	ea	3,624.30	140020	10,872.90T
Part #: Q46H-62-1-1-2-1-2-2					
Free Chlorine System					
- 85...265 VAC Power Requirement					
Chlorine, Free... - Sensor with constant head flowcell & 25 Ft. cable					
- Q22 pH Sensor					
- One Additional 4...20mA Output					
- Panel with flow controls, without flow switch					
Polarizer, Free... Polarizer, Free Chlorine, Flow Cell Style	1	ea	150.00	140020	150.00T
Part #: 00-0570					
Sensor, Free C... Free Chlorine Sensor, Flow Cell Style	1	ea	650.00	140020	650.00T
Part #: 00-0066					

Thank you for your business.

Please remit to Address Above. All past due balances are subject to 1.5% interest per month. Volition Controls Corp. standard terms and conditions are the final documents pertaining to this order. No other agreements will apply to this invoice unless agreed to in writing via authorized signature after the date of acknowledgement. A copy of terms are available upon request.

Sales Tax

\$817.10

TOTAL:

\$12,490.00

Balance Due

\$12,490.00



PO BOX 4001  
ACWORTH, GA 30101

0003716 01 MB 0.436 \*\*AUTO H6 0 2395 60062-619635 -C21-P03719-11



UTILITIES INC  
2335 SANDERS RD  
NORTHBROOK, IL 60062-6196



301 3839

Manage Your Account	Account Number	Date Due
<a href="http://www.vzw.com/mybusinessaccount">www.vzw.com/mybusinessaccount</a>	942074944-00001	04/20/16
Change your address at <a href="http://sso.verizonenterprise.com">http://sso.verizonenterprise.com</a>	Invoice Number	9762809205

## Quick Bill Summary

Feb 26 - Mar 25

Previous Balance <i>(see back for details)</i>	\$779.84
Payment - Thank You	-\$779.84
<b>Balance Forward</b>	<b>\$0.00</b>
Monthly Charges	\$160.00
Usage and Purchase Charges	
Messaging	\$4.80
Data	\$3,542.02
Verizon Wireless' Surcharges and Other Charges & Credits	\$9.92
Taxes, Governmental Surcharges & Fees	\$22.66
<b>Total Current Charges</b>	<b>\$3,739.40</b>

**Total Charges Due by April 20, 2016**

**\$3,739.40**

RECEIVED  
APR - 4 2016

29705-5945

Batch 233353  
Doc 759562

Pay from phone	Pay on the Web	Questions:
#PMT (#768)	At <a href="http://vzw.com/mybusinessaccount">vzw.com/mybusinessaccount</a>	1.800.922.0204 or *611 from your phone



UTILITIES INC  
2335 SANDERS RD  
NORTHBROOK, IL 60062-6108

Bill Date  
Account Number  
Invoice Number

March 25, 2016  
942074944-00001  
9762809205

## Total Amount Due by April 20, 2016

Make check payable to Verizon Wireless.  
Please return this remit slip with payment.

**\$3,739.40**

\$  ,    .

P.O. BOX 25505  
LEHIGH VALLEY, PA 18002-5505



97628092050109420749440000100000373940000003739404

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-8**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

## New Project or Budget Change?

New Project

Assigned Project #: 2015175

## Requested by:

Bryan K. Gongre

## Date:

10/30/2015

Project Manager / Area Manager

## Project Name:

LUSI TTHM/HAA5 Study

## Company:

251

Lake Utility Services Inc

## Business Unit:

251106

LUSI North

## Project Owner:

Bryan K. Gongre

## BU Type:

WP

## Project Manager:

Bryan K. Gongre

## Budget Owner / RVP:

John Hoy

03

## Start Date:

11/9/2015

Q4 2015

## Region:

Florida

04

## Estimated End Date:

3/30/2016

Q1 2016

## State:

FL

## Project Type:

EH&amp;S Compliance

## Will project replace/retire any assets:

No

## Previously Requested:

\$0

## This Request:

\$79,250

## Still to be Requested:

## Total Project Budget:

\$79,250

## Description:

1. Formation potential testing of each of the eight wells in LUSI North and the three wells in LUSI South. The samples will be evaluated at three intervals (8hr, 48hr, and 96hr) to develop a basic TTHM formation curve. The samples will also be evaluated for HAA5 formation potential.
2. Update the hydraulic WaterCAD model of the LUSI service area to evaluate the water age within the system. The water age will be developed to determine the correlation between the existing sampling points and the modeled water age.
3. Provide for additional sampling for the wells that have an increased formation potential to determine if we can sufficiently lower the TTHM/HAA levels by well blending, or if additional treatment will be necessary.
4. Investigation of the options available will be provided to determine an effective means for a long term solution for TTHM/HAA reduction. This will include preliminary cost estimates for the various options developed into a decision matrix to evaluate the best alternative.

## Timeline Considerations:

LUSI North exceeded the Stage 2 LRAA for TTHM and HAA5 during the most recent quarter of testing. FDEP has been consulted and the Utility is required to provide a quarterly Public Notice to the LUSI North customer base until the LRAA falls below the maximum allowed limits. FDEP has not yet notified the Utility of any enforcement action; however, the Utility is required to develop a corrective action plan to address this exceedance..

## Inter-dependant Project

Project Number:

NA

Project Name

LUSI North HAA Study (2014)

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

NA

(If applicable)



**Justification and Benefits:**

The LUSI North and South systems had challenges meeting the Stage 1 TTHM/HAA5 limits over the last several years and even greater challenges meeting the more stringent Stage 2 rule. For this reason, the Utility commissioned an engineering study in 2014 to gain some insight as to what may have been the cause contributing to elevated HAA levels in LUSI North. The sampling regimen used to perform this analysis was limited to a single event using UV-254 analysis method to identify levels of dissolved organic carbon present in the water supply. This method is impacted by the subjective interpretation of the sample by the analyst. Results of this UV-254 analysis, the analysis of chlorine dosing rates, gallons pumped from each well and operational strategies in use at the time were evaluated to determine the means by which HAA formation could be reduced or eliminated. The recommendations resulting from this evaluation indicated that bi-directional flushing in high HAA areas of the system could accomplish a reduction prior to implementing a more costly or complicated solution such as the use of Chloramines, GAC, Ion Exchange or RO. Flushing of the high HAA areas was put into place and quarterly testing results for TTHM/HAA5 remained under the maximum permissible LRAA until the most recent quarterly analysis that exceeded the LRAA for both TTHM and HAA5 in LUSI North requiring a Public Notice to be issued. The Utility reached back out to our engineers to develop a more comprehensive evaluation using TTHM/HAA formation potential testing to discern which of the 11 water supply wells are contributing to the problem and to develop a plan to address those locations, either operationally or by additional treatment. The first round of testing will be used as a basis to conduct further testing at the locations that indicate the greatest formation potential to narrow down what may be required and where to address the problem. By targeting the specific contributing sources, an effective solution can be implemented using the most cost effective approach.

**Risk Evaluation**

By performing a thorough analysis of the supply, the Utility will be in a position to justify the capital expenditure required to rectify the TTHM/HAA5 exceedance and prevent significant enforcement action by the regulatory agencies. Failure to act will result in the Utility remaining to be out of compliance.

**Alternatives Considered:**

Bi-directional flushing was successfully implemented in the initial stages, particularly in the cooler times of the year when formation potential is less likely due to lower water temperature. However, the seasonal high temperatures are lasting longer throughout the year and have been altogether higher on average accelerating TTHM/HAA5 formation. This, in turn, decreases flushing effectiveness. Chloramine disinfection is a known cost effective solution to the formation of DBP's but must be implemented throughout the entire service area and historically leads to significant water quality issues and increased flushing frequency and duration that will conflict with Consumptive Use Permit limits. The results of this proposed study will explore other viable options at the appropriate locations.

**Technical Review Summary:**

Project was discussed by the CPRT on 11/5/15. No comments were discussed that require adjustments or modifications.





## Financial and Regulatory Implications

### Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

#### Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
79,250				
(79,250)	-	-	-	-
79,250	79,250	79,250	79,250	79,250

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--

### Financial Justification

EH&S Compliance

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(1)	(1)
11,000	11,000

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-
(330)	(1,981)	(1,981)	(1,981)	(1,981)
(1,480)	(5,770)	(5,622)	(5,473)	(5,325)
(1,810)	(7,752)	(7,603)	(7,454)	(7,306)

### Timing and Supporting Information on Rate Recovery

Consolidated Rate Case to be filed in 2nd Qtr of 2016.

### Regulatory Plan Implications

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Kimley Horn & Associates, Inc.	\$56,750	Yes
2			
3			

### Component:

### Amount

Value Bid Elements

56,750.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Initial 2014 Study - CPH, Inc.

22,500.00

Total Project Budget

79,250.00

Object Account(s) to which project will be closed:

1160

Oth Plt&Misc Equip Src Supply

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

The total project amount includes the initial 2014 study and the proposed 2015 study that in total exceed the \$75,000 threshold criteria requiring three bids. However, only one bid was solicited in order to build on the framework and results of the 2014 study using the same consultant.



## Approvals

### EAM Prime Review

Review Completed by  Date:

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

### Technical Peer Review

Review Sponsored by  Date Held

Approval to proceed Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by  Date:

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:  Date:  ☒

VP Operations:  Date:  ☒

President:  Date:  ☒

### Approval or Re-Direction Comments

December 9, 2013



1117 East Robinson Street  
Orlando, Florida 32801

Phone: 407.425.0452  
Fax: 407.648.1036

[www.cphengineers.com](http://www.cphengineers.com)

Mr. Bryan Gongre  
Regional Manager  
Lake Utility Services, Inc.  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

RE: LUSI HAA Study Proposal

Mr. Gongre:

Thank you for the opportunity to present this proposal to perform a study to investigate the causes of the elevated Halo-Acetic Acid (HAA) levels in the LUSI North system. Based on our discussions and the existing data provided, there have been HAA exceedances in the Northeastern portion of the service area near the Clermont I and II water plants as well as in Louisa Point near the Lake Louisa water plant. In order to complete this project we will perform the following tasks:

1. Perform a desktop analysis of the historic HAA sampling data;
2. Perform targeted UV 254 sampling to determine the levels of organics in portions of the system with recorded high levels of HAA's;
3. Use the data from the UV 254 sampling to develop a more detailed sampling plan to locate the source of the HAA's;
4. Investigate operational strategies that could reduce the HAA levels in the system;
5. Investigate capital improvements that can remove the constituents that contribute to the formation of HAA's in the system;
6. Provide a summary report detail the options for lowering the HAA levels to within Regulatory limits.

No design or permitting services are including in the contract.

#### Payment

The engineering fee for the services, described herein is estimated to be \$22,500.00, including out of pocket expenses.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us and initial as indicated on Exhibit A.

If you have any questions please call me.



Sincerely,  
CPH, INC.

A handwritten signature in blue ink, appearing to read 'Stephen N. Romano', written over a light blue rectangular background.

Stephen N. Romano, P.E.  
Vice President/Associate

ACCEPTED BY:  
LAKE UTILITY SERVICES, INC.

A handwritten signature in blue ink, appearing to read 'Danya L. B.', written over a light blue rectangular background.

\_\_\_\_\_

Date: 12/9/13





Architects  
Environmental  
M/E/P  
Surveyors  
Engineers  
Landscape Architects  
Planners  
Transportation/Traffic

500 West Fulton Street  
Sanford, FL 32771  
Phone: 407.322.6841  
Fax: 407.330.0639

Invoice

3002421  
P0152798  
Revo# 160508

Bryan Gongre  
Lake Utility Services, Inc.  
200 Wethersfield Ave.  
Altamonte Springs, FL 32714

February 06, 2014  
Project No: U07137  
Invoice No: 87000

Investigate Elevated Halo-Acetic Acid (HAA) levels in the LUSI North system.

**Professional Services through January 12, 2014**

**Fee**

Total Fee	22,500.00		
Percent Complete	17.4444	Total Earned	3,924.99
		Previous Fee Billing	0.00
		Current Fee Billing	3,924.99
		<b>Total Fee</b>	<b>3,924.99</b>
		<b>Total this Invoice</b>	<b>\$3,924.99</b>

Services provided this period include:  
- Planning and initial prep for water quality sampling and analysis.

CPH, Inc.

RECEIVED  
FEB 12 2014



Architects  
Environmental  
M/E/P  
Surveyors

Engineers  
Landscape Architects  
Planners  
Transportation/Traffic

500 West Fulton Street  
Sanford, FL 32771  
Phone: 407.322.6841  
Fax: 407.330.0639

**Invoice**

Batch 176772

Doc 588413

3002421  
PO 154464  
Recpt 162149  
251

Bryan Gongre  
Lake Utility Services, Inc.  
200 Wethersfield Ave.  
Altamonte Springs, FL 32714

February 28, 2014  
Project No: U07137  
Invoice No: 87344

Investigate Elevated Halo-Acetic Acid (HAA) levels in the LUSI North system.

**Professional Services through February 09, 2014**

**Fee**

Total Fee	22,500.00		
Percent Complete	23.8889	Total Earned	5,375.00
		Previous Fee Billing	3,924.99
		Current Fee Billing	1,450.01
		<b>Total Fee</b>	<b>1,450.01</b>
		<b>Total this Invoice</b>	<b>\$1,450.01</b>

Services provided this period include:  
- Well sampling coordination and preparation.

CPH, Inc.

RECEIVED

MAR 17 2014

RECEIVED  
MAR 10 2014

**Invoice**

3002421

PD 156978

Rcpt. 164741



500 West Fulton Street  
Sanford, FL 32771  
Phone: 407.322.6841

Bryan Gongre  
Lake Utility Services, Inc.  
200 Wethersfield Ave.  
Altamonte Springs, FL 32714

April 07, 2014

Project No:

U07137

Invoice No:

87909

RECEIVED  
APR 11 2014

Investigate Elevated Halo-Acetic Acid (HAA) levels in the LUSI North system.

Professional Services through March 16, 2014

**Fee**

Total Fee	22,500.00		
Percent Complete	68.4376	Total Earned	15,398.46
		Previous Fee Billing	5,375.00
		Current Fee Billing	10,023.46
		<b>Total Fee</b>	<b>10,023.46</b>
		<b>Total this Invoice</b>	<b>\$10,023.46</b>

Services provided this period include:

- HAA draft report and evaluation of additional testing.

CPH, Inc.

**Invoice**



500 West Fulton Street  
Sanford, FL 32771  
Phone: 407.322.6841

RECEIVED  
MAY 12 2014

3002421  
PO# 159281  
Ref. # 167054

Bryan Gongre  
Lake Utility Services, Inc.  
200 Wethersfield Ave.  
Altamonte Springs, FL 32714

April 30, 2014  
Project No: U07137  
Invoice No: 88230

Investigate Elevated Halo-Acetic Acid (HAA) levels in the LUSI North system.

**Professional Services through April 13, 2014**

**Fee**

Total Fee	22,500.00		
Percent Complete	92.8821	Total Earned	20,898.47
		Previous Fee Billing	15,398.46
		Current Fee Billing	5,500.01
		<b>Total Fee</b>	<b>5,500.01</b>
		<b>Total this Invoice</b>	<b>\$5,500.01</b>

Services provided this period include:  
- HAA study and sampling procedure evaluation.

CPH, Inc.



October 22, 2015

Mr. Bryan Gongre  
Regional Manager  
Lake Utility Services, Inc.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

Re: LUSI TTHM/HAA5 Analysis Proposal

Bryan:

Kimley-Horn is pleased to submit this letter agreement to Lake Utility Services, Inc. for providing professional engineering services associated with the water quality analysis in the LUSI north and south service areas.

#### **Project Understanding**

It is our understanding that there have been TTHM/HAA5 exceedances in both of these areas, however, there has been no positive identification of the source. There are eight (8) wells in the north portion of the service area and three (3) wells in the south. Several of these wells can potentially contribute to the problem. This scope of services is to make a positive determination of which well(s) are contributing to the formation of TTHM's in the distribution system.

#### **Scope of Services**

Kimley-Horn will provide the services specifically set forth below.

##### **Task 1 – Initial investigation and modeling**

The scope of services will begin with formation potential testing of each of the eight wells in the north and three wells in the south. The samples will be evaluated at three points (8hr, 48hr, and 96hr) to develop a basic TTHM formation curve. The samples will also be evaluated for HAA5 formation potential.

While the testing is being performed, the hydraulic WaterCAD model of the area will be updated. The model has not been updated in several years and needs to be revised to account for additional piping and connections. The model will be updated with current infrastructure and demands. A rough calibration will be performed by checking the pressures at various points in the system with the reported pressures in the model. The model will be run to evaluate the water age within the system. The water age will be developed to determine the correlation between the existing sampling points and the modeled water age.

When we have the testing data back, we can compare it with the calibrated model. This will provide us with two important pieces of information. First is the overall water age in the system, and specifically the water age at the sampling locations. Second is we will be able to modify the model to simulate alternate operations of the wells that may be able to minimize the impacts of the affected well(s) and/or reduce the water age. The results of these simulations will guide the initial settings for the new SCADA system in the area. However, the testing and modeling results may show that there is no reliable combination of wells that can be operated to keep the TTHM/HAA5 within Regulatory parameters. In this circumstance, advanced treatment will be investigated for service area to determine what needs to be constructed and at which location(s).

A draft report with these initial findings will be developed for your review. This will primarily detail where we find the sources of the TTHM formation and where we recommend additional study for Task 2.



## Task 2 – Final analysis and reporting

This second task includes additional sampling for the wells that have an increased formation potential. These samples will more fully develop the formation curve so we can more accurately predict the TTHM levels at varying water ages. This will allow us to determine if we can sufficiently lower the TTHM levels by well blending, or if additional treatment will be necessary. The additional sampling assumes 4 wells are contributing to the elevated TTHM/HAA levels and three additional points will be tested for a total of 12 additional samples.

Also included in this task will be the full investigation of the options available to provide a long term solution for TTHM/HAA reduction. This will include an operational evaluation of the well system and a treatment study based on the potential level of TTHM/HAA formation potential to be reduced. This will include preliminary cost estimates for the various options developed into a decision matrix to evaluate the best alternative.

### Additional Services

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates. Additional services we can provide include, but are not limited to, the following: additional water quality testing not identified in the scope; design services associated with the results of the study.

### Information Provided By Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information requested by Kimley-Horn during the project, including but not limited to the following: Flow and connection data for the identified portion of the service area.

### Schedule

We will provide our services as expeditiously as practicable with the goal of meeting the following schedule: The first draft of the study will be completed within 6 weeks of authorization. The final draft will be completed 10-12 weeks from authorization depending on the draft review and the determination of viable options discussed in the draft.

### Fee and Expenses

Kimley-Horn will perform the services in Tasks 1-2 for the total lump sum fee of below. Water quality testing will be performed by UCF and comprises approximately \$24,000 of the lump sum fee. All permitting, application, and similar project fees will be paid directly by the Client.

Task 1 Initial Investigation and Modeling	\$ 35,750
Task 2 Final Analysis and Reporting	\$ 21,000
Total Lump Sum Fee	\$ 56,750

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.



## Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Lake Utility Services, Inc.

Kimley-Horn, in an effort to expedite invoices and reduce paper waste, submits invoices via email in an Adobe PDF format. We can also provide a paper copy via regular mail if requested. Include the invoice number and Kimley-Horn project number with all payments. Please provide the following information:

\_\_\_\_ Please email all invoices to bkgongre@uiwater.com

\_\_\_\_ Please copy \_\_\_\_\_

If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for sixty (60) days after the date of this letter.

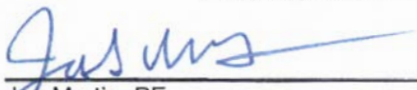
To ensure proper set up of your projects so that we can get started, please complete and return with the signed copy of this Agreement the attached Request for Information. Failure to supply this information could result in delay in starting work on your project.

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Very truly yours,  
**KIMLEY-HORN AND ASSOCIATES, INC.**

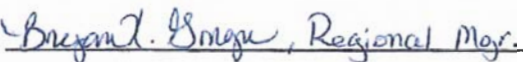
Steve Romano, PE  
Sr. Project Manager

**SUBMITTED BY:**  
**KIMLEY-HORN AND ASSOCIATES, INC.**

  
\_\_\_\_\_  
Jon Martin, PE  
Sr. Associate

Date: 11-12-15

**ACCEPTED BY:**  
**LAKE UTILITY SERVICES, INC.**

  
\_\_\_\_\_  
Bryan L. Gongre, Regional Mgr.

Date: 11/10/15

Attachment – Standard Provisions



KIMLEY-HORN AND ASSOCIATES, INC.

STANDARD PROVISIONS

(1) **Consultant's Scope of Services and Additional Services.** The Consultant's undertaking to perform professional services extends only to the services specifically described in this Agreement. However, if requested by the Client and agreed to by the Consultant, the Consultant will perform Additional Services, which shall be governed by these provisions. Unless otherwise agreed to in writing, the Client shall pay the Consultant for any Additional Services an amount based upon the Consultant's then-current hourly rates plus an amount to cover certain direct expenses including telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Other direct expenses will be billed at 1.15 times cost.

(2) **Client's Responsibilities.** In addition to other responsibilities described herein or imposed by law, the Client shall:

- (a) Designate in writing a person to act as its representative with respect to this Agreement, such person having complete authority to transmit instructions, receive information, and make or interpret the Client's decisions.
- (b) Provide all information and criteria as to the Client's requirements, objectives, and expectations for the project including all numerical criteria that are to be met and all standards of development, design, or construction.
- (c) Provide to the Consultant all previous studies, plans, or other documents pertaining to the project and all new data reasonably necessary in the Consultant's opinion, such as site survey and engineering data, environmental impact assessments or statements, upon all of which the Consultant may rely.
- (d) Arrange for access to the site and other private or public property as required for the Consultant to provide its services.
- (e) Review all documents or oral reports presented by the Consultant and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of the Consultant.
- (f) Furnish approvals and permits from governmental authorities having jurisdiction over the project and approvals and consents from other parties as may be necessary for completion of the Consultant's services.
- (g) Cause to be provided such independent accounting, legal, insurance, cost estimating and overall feasibility services as the Client may require.
- (h) Give prompt written notice to the Consultant whenever the Client becomes aware of any development that affects the scope, timing, or payment of the Consultant's services or any defect or noncompliance in any aspect of the project.
- (i) Bear all costs incidental to the responsibilities of the Client.

(3) **Period of Services.** Unless otherwise stated herein, the Consultant will begin work timely after receipt of a properly executed copy of this Agreement and any required retainer amount. This Agreement is made in anticipation of conditions permitting continuous and orderly progress through completion of the services. Times for performance shall be extended as necessary for delays or suspensions due to circumstances that the Consultant does not control. If such delay or suspension extends for more than six months (cumulatively), Consultant's compensation shall be renegotiated.

(4) **Method of Payment.** Compensation shall be paid to the Consultant in accordance with the following provisions:

- (a) Invoices will be submitted periodically for services performed and expenses incurred. Payment of each invoice will be due within 25 days of receipt. The Client shall also pay any applicable sales tax. All retainers will be held by the Consultant for the duration of the project and applied against the final invoice. Interest will be added to accounts not paid within 25 days at the maximum rate allowed by law. If the Client fails to make any payment due to the Consultant under this or any other agreement within 30 days after the Consultant's transmittal of its invoice, the Consultant may, after giving notice to the Client, suspend services and withhold deliverables until all amounts due are paid in full and may commence proceedings, including filing liens, to secure its right to payment under this Agreement.
- (b) If the Client relies on payment or proceeds from a third party to pay Consultant and Client does not pay Consultant's invoice within 60 days of receipt, Consultant may communicate directly with such third party to secure payment.
- (c) If the Client objects to an invoice, it must advise the Consultant in writing giving its reasons within 14 days of receipt of the invoice or the Client's objections will be waived, and the invoice shall conclusively be deemed due and owing. If the Client objects to only a portion of the invoice, payment for all other portions remains due within 25 days of receipt.
- (d) The Client agrees that the payment to the Consultant is not subject to any contingency or condition. The Consultant may negotiate payment of any check tendered by the Client, even if the words "in full satisfaction" or words intended to have similar effect appear on the check without such negotiation being an accord and satisfaction of any disputed debt and without prejudicing any right of the Consultant to collect additional amounts from the Client.

(5) **Use of Documents.** All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole



risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The Consultant's electronic files and source code developed in the development of application code remain the property of the Consultant and shall be provided to the Client only if expressly provided for in this Agreement. Any electronic files not containing an electronic seal are provided only for the convenience of the Client, and use of them is at the Client's sole risk. In the case of any defects in the electronic files or any discrepancies between them and the hardcopy of the documents prepared by the Consultant, the hardcopy shall govern. Because data stored in electronic media format can deteriorate or be modified without the Consultant's authorization, the Client has 60 days to perform acceptance tests, after which it shall be deemed to have accepted the data.

(6) **Opinions of Cost.** Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the Client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. Consultant's services required to bring costs within any limitation established by the Client will be paid for as Additional Services.

(7) **Termination.** The obligation to provide further services under this Agreement may be terminated by either party upon seven days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party, or upon thirty days' written notice for the convenience of the terminating party. If any change occurs in the ownership of the Client, the Consultant shall have the right to immediately terminate this Agreement. In the event of any termination, the Consultant shall be paid for all services rendered and expenses incurred to the effective date of termination, and other reasonable expenses incurred by the Consultant as a result of such termination. If the Consultant's compensation is a fixed fee, the amount payable for services will be a proportional amount of the total fee based on the ratio of the amount of the services performed, as reasonably determined by the Consultant, to the total amount of services which were to have been performed.

(8) **Insurance.** The Consultant carries Workers' Compensation insurance, professional liability insurance in the amount of \$2,000,000 per claim, and general liability insurance. If the Client directs the Consultant to obtain increased insurance coverage, the Consultant will take out such additional insurance, if obtainable, at the Client's expense.

(9) **Standard of Care.** The standard of care applicable to Consultant's services will be the degree of care and skill ordinarily exercised by consultants performing the same or similar services in the same locality at the time the services are provided. No warranty, express or implied, is made or intended by the Consultant's undertaking herein or its performance of services, and it is agreed that the Consultant is not a fiduciary with respect to the Client.

(10) **LIMITATION OF LIABILITY.** In recognition of the relative risks and benefits of the Project to the Client and the Consultant, the risks have been allocated such that the Client agrees, to the fullest extent of the law, and notwithstanding any other provisions of this Agreement or the existence of applicable insurance coverage, that the total liability, in the aggregate, of the Consultant and the Consultant's officers, directors, employees, agents, and subconsultants to the Client or to anyone claiming by, through or under the Client, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the services under this Agreement from any cause or causes, including but not limited to, the negligence, professional errors or omissions, strict liability or breach of contract or any warranty, express or implied, of the Consultant or the Consultant's officers, directors, employees, agents, and subconsultants, shall not exceed twice the total compensation received by the Consultant under this Agreement or \$50,000, whichever is greater. Higher limits of liability may be negotiated for additional fee. Under no circumstances shall the Consultant be liable for extra costs or other consequences due to changed conditions, or for costs related to the failure of contractors to perform work in accordance with the plans and specifications. This Section 10 is intended solely to limit the remedies available to the Client or those claiming by or through the Client, and nothing in this Section 10 shall require the Client to indemnify the Consultant.

(11) **Mutual Waiver of Consequential Damages.** In no event shall either party be liable to the other for any consequential, incidental, punitive, or indirect damages including but not limited to loss of income or loss of profits.

(12) **Certifications.** The Consultant shall not be required to execute certifications or third-party reliance letters that are inaccurate, that relate to facts of which the Consultant does not have actual knowledge, or that would cause the Consultant to violate applicable rules of professional responsibility.

(13) **Dispute Resolution.** All claims by the Client arising out of this Agreement or its breach shall be submitted first to mediation in accordance with the Construction Industry Mediation Procedures of the American Arbitration Association as a condition precedent to litigation.

(14) **Hazardous Substances and Conditions.** In no event shall Consultant be a custodian, transporter, handler, arranger, contractor, or remediator with respect to hazardous substances and conditions. Consultant's services will be limited to professional analysis, recommendations, and reporting, including, when agreed to, plans and specifications for isolation, removal, or remediation. The Consultant shall notify the Client of hazardous substances or conditions not contemplated in the scope of services of which the Consultant actually becomes aware. Upon such notice by the Consultant, the Consultant may stop affected portions of its services until the hazardous substance or condition is eliminated.

(15) **Construction Phase Services.**

(a) If the Consultant's services include the preparation of documents to be used for construction and the Consultant is not retained to make periodic site visits, the Client assumes all responsibility for interpretation of the documents and for construction observation, and the Client waives any claims against the Consultant in any way connected thereto.

(b) If the Consultant provides construction phase services, the Consultant shall have no responsibility for any contractor's means, methods, techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall Consultant have any authority or responsibility to stop or direct the work of any contractor. The Consultant's visits will be for the purpose of endeavoring to provide the Client a greater degree of confidence that the completed work of its contractors will generally conform to the construction documents prepared by the Consultant. Consultant neither guarantees the performance of contractors, nor assumes responsibility for any contractor's failure to perform its work in accordance with the contract documents.

(c) The Consultant is not responsible for any duties assigned to the design professional in the construction contract that are not expressly provided for in this Agreement. The Client agrees that each contract with any contractor shall state that the contractor shall be solely responsible for job site safety and for its means and methods; that the contractor shall indemnify the Client and the Consultant for all claims and liability arising out of job site accidents; and that the Client and the Consultant shall be made additional insureds under the contractor's general liability insurance policy.

(16) **No Third-Party Beneficiaries; Assignment and Subcontracting.** This Agreement gives no rights or benefits to anyone other than the Client and the Consultant, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole benefit of the Client and the Consultant. The Client shall not assign or transfer any rights under or interest in this Agreement, or any claim arising out of the performance of services by Consultant, without the written consent of the Consultant. The Consultant reserves the right to augment its staff with subconsultants as it deems appropriate due to project logistics, schedules, or market conditions. If the Consultant exercises this right, the Consultant will maintain the agreed-upon billing rates for services identified in the contract, regardless of whether the services are provided by in-house employees, contract employees, or independent subconsultants.

(17) **Confidentiality.** The Client consents to the use and dissemination by the Consultant of photographs of the project and to the use by the Consultant of facts, data and information obtained by the Consultant in the performance of its services. If, however, any facts, data or information are specifically identified in writing by the Client as confidential, the Consultant shall use reasonable care to maintain the confidentiality of that material.

(18) **Miscellaneous Provisions.** This Agreement is to be governed by the law of the State of Florida. This Agreement contains the entire and fully integrated agreement between the parties and supersedes all prior and contemporaneous negotiations, representations, agreements or understandings, whether written or oral. Except as provided in Section 1, this Agreement can be supplemented or amended only by a written document executed by both parties. Provided, however, that any conflicting or additional terms on any purchase order issued by the Client shall be void and are hereby expressly rejected by the Consultant. Any provision in this Agreement that is unenforceable shall be ineffective to the extent of such unenforceability without invalidating the remaining provisions. The non-enforcement of any provision by either party shall not constitute a waiver of that provision.

(19) **PURSUANT TO FS 558.0035, EMPLOYEES OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE UNDER THIS AGREEMENT.**



3008141  
PD# 200886  
Recpt# 212900

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7237432  
Invoice Date: Dec 15, 2015  
Invoice Amount: \$4,900.00  
Project No: 149685001.1  
Project Name: LUSI TTHM / HAA5 ANALYSIS  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Dec 15, 2015

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	5.31%	1,900.00	0.00	1,900.00
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	14.29%	3,000.00	0.00	3,000.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>8.63%</b>	<b>4,900.00</b>	<b>0.00</b>	<b>4,900.00</b>
<b>Total LUMP SUM</b>					<b>4,900.00</b>

**Total Invoice: \$4,900.00**

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

3008141  
PO# 200886  
Repl. 214444

Invoice No: 7367456  
Invoice Date: Dec 31, 2015  
Invoice Amount: \$3,000.00  
Project No: 149685001.1  
Project Name: LUSI TTHM / HAA5 ANALYSIS  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Dec 31, 2015

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	13.71%	4,900.00	1,900.00	3,000.00
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	14.29%	3,000.00	3,000.00	0.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>13.92%</b>	<b>7,900.00</b>	<b>4,900.00</b>	<b>3,000.00</b>
<b>Total LUMP SUM</b>					<b>3,000.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
WELL SITE VISITS AND MODEL SETUP.

**Total Invoice: \$3,000.00**

3008141

PO 200886

Recpt 216615

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7488705  
Invoice Date: Jan 31, 2016  
Invoice Amount: \$12,975.00  
Project No: 149685001.1  
Project Name: LUSI TTHM / HAA\$ ANALYSIS  
Project Manager: RGMANC, STEVE

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Jan 31, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	50.00%	17,875.00	4,900.00	12,975.00
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	14.29%	3,000.00	3,000.00	0.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>36.78%</b>	<b>20,875.00</b>	<b>7,900.00</b>	<b>12,975.00</b>
<b>Total LUMP SUM</b>					<b>12,975.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
DEVELOPMENT OF THE HYDRAULIC MODEL AND TTHM SAMPLING

**Total Invoice: \$12,975.00**

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

3008140  
PO# 200866  
Recpt 218902

Invoice No: 7570582  
Invoice Date: Feb 29, 2016  
Invoice Amount: \$6,000.00

Project No: 149685001.1  
Project Name: LUSI TTHM / HAA5 ANALYSIS  
Project Manager: ROMANO, STEVE

Client Reference:

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

For Services Rendered through Feb 29, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	66.78%	23,875.00	17,875.00	6,000.00
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	14.29%	3,000.00	3,000.00	0.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>47.36%</b>	<b>26,875.00</b>	<b>20,875.00</b>	<b>6,000.00</b>
<b>Total LUMP SUM</b>					<b>6,000.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
AGE ANALYSIS MODELING

**Total Invoice: \$6,000.00**

3008141  
PO# 200886  
Rept# 221314

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7676856  
Invoice Date: Mar 31, 2016  
Invoice Amount: \$10,087.50  
  
Project No: 149685001.1  
Project Name: LUSI TTHM / HAA5 ANALYSIS  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Mar 31, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	95.00%	33,962.50	23,875.00	10,087.50
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	14.29%	3,000.00	3,000.00	0.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>65.13%</b>	<b>36,962.50</b>	<b>26,875.00</b>	<b>10,087.50</b>
<b>Total LUMP SUM</b>					<b>10,087.50</b>

DESCRIPTION OF SERVICES PERFORMED:  
FINAL WATER QUALITY REPORT  
INITIAL OPTIONS INVESTIGATION  
COORDINATION AND ANALYSIS REGARDING FDEP CONSENT ORDER

**Total Invoice: \$10,087.50**



LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

3008141  
PO# 200886  
Recpt. 224176

Invoice No: 7811293  
Invoice Date: Apr 30, 2016  
Invoice Amount: \$4,037.50

Project No: 149685001.1  
Project Name: LUSI TTHM / HAA5 ANALYSIS  
Project Manager: ROMANO, STEVE

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Apr 30, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	100.00%	35,750.00	33,962.50	1,787.50
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	25.00%	5,250.00	3,000.00	2,250.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>72.25%</b>	<b>41,000.00</b>	<b>36,962.50</b>	<b>4,037.50</b>
<b>Total LUMP SUM</b>					<b>4,037.50</b>

DESCRIPTION OF SERVICES PERFORMED:  
PREP FOR FINAL INVESTIGATIONS AND MODELING IN ACCORDANCE WITH PROPOSED CONSENT ORDER

**Total Invoice: \$4,037.50**



Invoice for Professional Services

3008141  
PD# 200886  
Recpt 234409

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8260252  
Invoice Date: Aug 31, 2016  
Invoice Amount: \$7,350.00

Project No: 149685001.1  
Project Name: LUSI TTHM / HAA5 ANALYSIS  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Aug 31, 2016

Federal Tax Id: 56-0885615

#### LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	100.00%	35,750.00	35,750.00	0.00
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	60.00%	12,600.00	5,250.00	7,350.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>85.20%</b>	<b>48,350.00</b>	<b>41,000.00</b>	<b>7,350.00</b>
<b>Total LUMP SUM</b>					<b>7,350.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
DRAFT REPORT OF THE ADVANCED TREATMENT ANALYSIS AND COST

**Total Invoice: \$7,350.00**



Invoice for Professional Services

3008141  
PD# 200886  
Receipt# 237927

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8411740  
Invoice Date: Sep 30, 2016  
Invoice Amount: \$7,350.00  
  
Project No: 149685001.1  
Project Name: LUSI TTHM / HAA5 ANALYSIS  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Sep 30, 2016

Federal Tax Id: 56-0885615

#### LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - INITIAL INVESTIGATION AND MODELING	35,750.00	100.00%	35,750.00	35,750.00	0.00
TASK 2 - FINAL ANALYSIS AND REPORTING	21,000.00	95.00%	19,950.00	12,600.00	7,350.00
<b>Subtotal</b>	<b>56,750.00</b>	<b>98.15%</b>	<b>55,700.00</b>	<b>48,350.00</b>	<b>7,350.00</b>
<b>Total LUMP SUM</b>					<b>7,350.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
TREATMENT ANALYSIS REPORT

**Total Invoice: \$7,350.00**

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-9**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

PCF-9 Engineering Lake Groves WTP Upgrades

Held for future use



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-10**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2015083

Requested by:

Bryan K. Gongre

Date:

4/13/2015

Project Manager / Area Manager

Project Name:

Eng-Const US 27 Phase 3

Company:

251

Lake Utility Services Inc

Business Unit:

251102

LUSI South W

Project Owner:

John Hoy

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP: John Hoy

03

Start Date:

4/20/2015

Q2 2015

Region:

Florida

04

Estimated End Date:

12/1/2015

Q4 2015

State:

FL

Project Type:

EH&amp;S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$62,990

Still to be Requested:

Total Project Budget:

\$62,990

## Description:

FDOT is widening the roadway and constructing storm water improvements within the right of way of US 27 from North of Boggy Marsh Road to just south of Lake Louisa Road in Clermont, FL. The Utility has water, sewer and reclaimed water mains located within the US 27 right of way within FDOT's project scope that will be impacted as a result of this construction activity. Approximately 8,650 LF of 16" water main and 2,600 LF of 12" and smaller diameter pipes will need to be adjusted and/or lowered to resolve vertical and horizontal conflicts as well as the ability to meet and maintain allowable bury depth (cover) requirements.

## Timeline Considerations:

FDOT plans to begin construction by 10/1/15. The Utility's facilities will need to be relocated prior to the FDOT construction date or shortly thereafter.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

No

Engineering project number

(If applicable)

**Justification and Benefits:**

The Utility's facilities are located within the FDOT right of way and subject to the FDOT permitting requirements that include the requirement to relocate and/or adjust facilities that are in conflict between the Utility's assets and any state funded improvements.

**Risk Evaluation**

Failure to comply with the FDOT right of way permit conditions will result in the issuance of a Notice to Vacate the right of way, which would incur very expensive costs and negatively impact quality of service to existing customers. The pipe modifications will be designed so as to maintain service to existing connections along US 27 during the construction period. The quantities, locations, and timing of pipe adjustments will be dependant upon FDOT's plans and work schedule. It will be important to insure that our facilities are relocated efficiently and effectively, which will require the use of engineering servicest that is coordinated with FDOT's consultants and contractors.

**Alternatives Considered:**

Acquire easements along US 27 from private property owners to avoid the possibility of future relocation costs being born by the Utility. Doing so would result in higher construction costs as only approximately 1/7th of the pipeline is in conflict.

Minimum bury depth is 30" within grassy areas of the FDOT ROW, a variance of 24" will be requested to decrease the number of LF to be lowered but there is no gaurantee that FDOT will accept the proposal.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

#### Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
62,990				
(62,990)	-	-	-	-
62,990	62,990	62,990	62,990	62,990

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--

### Financial Justification

FDOT Requirement

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

#### Served Rate Payers

(1)	(1)
4,197	4,197

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-
(131)	(1,575)	(1,575)	(1,575)	(1,575)
	(4,596)	(4,478)	(4,360)	(4,242)
(131)	(6,171)	(6,053)	(5,935)	(5,817)

### Timing and Supporting Information on Rate Recovery

Timing is based on FDOT timetable. LUSI is in the rate case plan for 2015. Therefore, this capital project would be included as a proforma project.

### Regulatory Plan Implications

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	CPH	\$62,990	Yes
2			
3			

### Component:

### Amount

Value Bid Elements

62,990.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Total Project Budget

62,990.00

Object Account(s) to which project will be closed:

1125

Trans & Distr Mains

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

CPH is extremely familiar with the existing infrastructure within the US 27 R/W. In addition, the engineering support cost is in line with similar projects previously completed in the US 27 corridor. The quote was less than the minimum amount required to solicit a minimum of three bids. Therefore, no additional bids were solicited.





## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

4/16/2015

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

CPRT prefers that the estimated cost of the total project be identified whenever possible in order to compare the cost of engineering to the estimated construction costs. Soils analysis should be considered within the scope of the engineering design.

### FP&A Review

Review Completed by

Christie Kincaid

Date:

4/23/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan Gongre

Date:

4/29/2015

☒

VP Operations:

Patrick C. Flynn

Date:

4/29/2015

☒

President:

John P. Hoy

Date:

5/4/2015

☒

### Approval or Re-Direction Comments



1117 East Robinson Street  
Orlando, Florida 32801

Phone: 407.425.0452

Fax: 407.648.1036

[www.cphengineers.com](http://www.cphengineers.com)

April 9, 2015

Mr. Bryan Gongre  
Regional Manager  
Lake Utility Services, Inc.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: SR 25 (US 27) Lake Utility Services, Inc. Utility Relocations (FDOT FPID 238422-1-52-01) Proposal

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services related to the utility relocations along the SR 25 (US 27) corridor due to the planned FDOT construction. Following review of the FDOT Utility Contact Submittal of the roadway plans, dated February 24, 2015, it appears there is approximately 8,650 lineal feet of 16" water main and up to 2,600 LF of 12" smaller of either water, reuse, or force main with reduced cover and possible locations of conflict with FDOT improvements. Given that vertical information on existing mains is not provided in the roadway plans this length may be reduced by having the awarded Contractor provide test holes for evaluation during construction to reduce relocations as much as possible. CPH has included limited time for post-award services to assist with this evaluation and coordination between the FDOT and the award utility contractor.

This scope of services includes reviewing FDOT plans, converting FDOT plans from Microstation to AutoCAD (up to two updates), preparing construction plans (plan view, up to 5 cross sections, and details) and specifications related to utility conflicts and relocations, prepare FDEP permits and pay fees, prepare FDOT Utility Work Schedule, prepare FDOT Utility Permit, prepare FDOT Utility Agreement, provide bidding services, and limited post design services indicated in the attached spreadsheet. Post design services include time to assist with contractor provided locate information, attend 5 construction meetings with either the contractor or FDOT, two change order reviews, shop drawings, and five RFI responses. The FDOT plans will be used as a base to allow the relocations to match the FDOT sheets for accurate referencing. The Utility's standard notes and details will be incorporated into the plans to ensure the utilities are constructed in accordance with the Utility's standards. Plans and specifications will be prepared for review at the 90% and Final completion levels. Further detail for each phase and task is provided on the attached man hour's spreadsheet(s).

Environmental services are not included in this scope. Surveying and utility locates are not included in this scope of services. Locates will be called for on the plans for the contractor to field verify. Any required surveying will be additional to this contract. Geotechnical services are not included in the scope of services. It is understood this project will not be constructed under a Utility Work by Highway Contractor Agreement with FDOT.

#### Supplementary Services

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

J:\Z6582\Proposals\Util Inc\UTIL INC SR 27\Contract\LGU SR 25.doc



Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Preparing to serve as an expert witness for the Owner in any protest, litigation, or other proceeding involving the project.

Additional engineering services required by revisions to regulations (after the date of this contract) as applicable to the Florida Department of Environmental Protection, the St. Johns River Water Management District, or other regulatory agency requirements.

Provide, through a subconsultant, additional surveying services if required or requested by the Owner.

Provide, through a subconsultant, additional soils investigation services if required or requested by the Owner.

#### **Payment**

The engineering design fee for the services, described herein is estimated to be \$62,990.00, including out of pocket expenses. The time and materials amount is estimated based on the review of FDOT plans and assumed relocations provided at the time of this scope of services.

Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

Sincerely,  
CPH, Inc.

James R. Morris, Jr., P.E.  
Sr. Project Manager

ACCEPTED BY:  
Lake Utility Services, Inc.

Date: 5/6/15



SR 25 (US 27) Lake Grove Utilities Inc. Utility Relocations						
Engineering Services						
Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II Fees
1	Review FDOT Phase IV submittal, conduct site visit, prepare RGB submittal, attend one meeting with FDOT, prepare conflict matrix, and prepare initial cost estimate	24	40			8
2	Convert 100% FDOT drawings to AutoCAD, review final FDOT drawings, prepare 90%, and Final Bid Documents including plans (plan view only and up to 5 cross sections), specifications, and bid form. Attend up to two meetings with FDOT and LGU.	32	80		180	8
3	Prepare FDOT Utility Permit and FDEP permitting including fees. Prepare Utility Agreement and Work Schedule	10	12		12	8
4	Prepare Bid Documents to LGU Contractors, answer questions, prepare addenda, and review bids.	4	4		4	2
5	Attend preconstruction meeting, up to ten site visits (meetings to coincide with site visits), shop drawing review, RFI reply (up to 5), change order review (up to two), FDOT certification, FDEP permit certification, and Record Drawings	30	60		40	10
SUBTOTAL DIRECT LABOR		100	196	0	236	36

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$60,640.00
Total Labor Cost		\$60,640.00
Fees		\$1,400.00
Misc. Expenses		\$950.00
<b>TOTAL TASK 1</b>		<b>\$62,990.00</b>

	RATE		
Project Manager	\$135.00	100	\$13,500.00
Project Engineer	\$110.00	196	\$21,560.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$100.00	236	\$23,600.00
Clerical II	\$55.00	36	\$1,980.00
Subtotal Raw Labor			<u>\$60,640.00</u>

Invoice

3002421  
PO# 186695  
Recpt 197647



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

June 04, 2015  
Project No: U07143  
Invoice No: 93649

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

Professional Services through May 10, 2015

**Fee**

Total Fee	62,990.00		
Percent Complete	15.11	Total Earned	9,517.79
		Previous Fee Billing	0.00
		Current Fee Billing	9,517.79
		<b>Total Fee</b>	<b>9,517.79</b>
		<b>Total this Invoice</b>	<b>\$9,517.79</b>

Services provided this period include:

FDOT Permit RGB and plan update

CPH, Inc.

RECEIVED  
JUN 15 2015





500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

Invoice

3002421  
PO 186695  
Recpt 205053

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

September 01, 2015  
Project No: U07143  
Invoice No: 94662

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

**Professional Services through August 09, 2015**

**Fee**

Total Fee	62,990.00		
Percent Complete	50.00	Total Earned	31,495.00
		Previous Fee Billing	22,046.50
		Current Fee Billing	9,448.50
		<b>Total Fee</b>	<b>9,448.50</b>
		<b>Total this Invoice</b>	<b>\$9,448.50</b>

CPH, Inc.

RECEIVED  
SEP 08 2015



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

RECEIVED  
OCT 13 2015

**Invoice**

3002421  
PD#186695  
Recpt# 208001

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

October 07, 2015  
Project No: U07143  
Invoice No: 95192

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

**Professional Services through September 13, 2015**

**Fee**

Total Fee	62,990.00		
Percent Complete	55.00	Total Earned	34,644.50
		Previous Fee Billing	31,495.00
		Current Fee Billing	3,149.50
		<b>Total Fee</b>	<b>3,149.50</b>
		<b>Total this Invoice</b>	<b>\$3,149.50</b>

CPH, Inc.

**Invoice**



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

3002421  
PO# 186695  
Repl # 212674

RECEIVED  
DEC 16 2015

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

December 11, 2015  
Project No: U07143  
Invoice No: 95935

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

Professional Services through November 15, 2015

**Fee**

Total Fee	62,990.00		
Percent Complete	70.00	Total Earned	44,093.00
		Previous Fee Billing	34,644.50
		Current Fee Billing	9,448.50
		<b>Total Fee</b>	<b>9,448.50</b>
		<b>Total this Invoice</b>	<b>\$9,448.50</b>

Services provided this period includes:

Project is out for bid

CPH, Inc.



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

RF  
JAN 13 2016

**Invoice**

3002421  
PO#186695  
Recpt# 215286

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

January 4, 2016  
Project No: U07143  
Invoice No: 96146

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

**Professional Services through December 13, 2015**

**Fee**

Total Fee	62,990.00		
Percent Complete	80.00	Total Earned	50,392.00
		Previous Fee Billing	44,093.00
		Current Fee Billing	6,299.00
		<b>Total Fee</b>	<b>6,299.00</b>
		<b>Total this Invoice</b>	<b>\$6,299.00</b>

**Outstanding Invoices**

Number	Date	Balance
95935	12/11/2015	9,448.50
<b>Total</b>		<b>9,448.50</b>

Services provided this period includes:

Bidding Services

CPH, Inc.



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

RECEIVED

FEB 16 2016

Invoice

3002421  
PO# 186695  
Rec# 217415

Bryan Gongre  
Utilities, Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

February 5, 2016

Project No: U07143

Invoice No: 96726

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

Professional Services through January 10, 2016

**Fee**

Total Fee	62,990.00		
Percent Complete	86.00	Total Earned	54,171.40
		Previous Fee Billing	50,392.00
		Current Fee Billing	3,779.40
		<b>Total Fee</b>	<b>3,779.40</b>
		<b>Total this Invoice</b>	<b>\$3,779.40</b>

Services provided this period includes:

Construction Services 0% complete

CPH, Inc.



FILED  
MAR 10 2016



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

Invoice

3002421  
PD# 186695  
Recpt# 219207

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

March 8, 2016  
Project No: U07143  
Invoice No: 96807

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

Professional Services through February 7, 2016

Fee

Total Fee	62,990.00		
Percent Complete	90.00	Total Earned	56,691.00
		Previous Fee Billing	54,171.40
		Current Fee Billing	2,519.60
		<b>Total Fee</b>	<b>2,519.60</b>
		<b>Total this Invoice</b>	<b>\$2,519.60</b>

Services provided this period includes:

Construction Services 0% complete

CPH, Inc.

*Vernon Harrison*



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

RECEIVED  
MAY 13 2016

Invoice

3002421  
PO# 186695  
Rep# 224727

Bryan Gongre  
Utilities, Inc. of Florida - Lake Utility Services  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

May 4, 2016  
Project No: U07143  
Invoice No: 97758

Lake Utility Services, Inc. Utility Relocations SR 25 (US 27).

Professional Services through April 10, 2016

Fee

Total Fee	62,990.00		
Percent Complete	91.00	Total Earned	57,320.90
		Previous Fee Billing	56,691.00
		Current Fee Billing	629.90
		<b>Total Fee</b>	<b>629.90</b>
		<b>Total this Invoice</b>	<b>\$629.90</b>

Services provided this period includes:

Construction Services

CPH, Inc.

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. I60101-WS

**EXHIBIT PCF-10a**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



# ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2016009

Requested by:

Bryan K. Gongre

Date:

1/11/2015

Project Manager / Area Manager

Project Name:

Const. US 27 Phase 3

Company:

251

Lake Utility Services Inc

Business Unit:

251102

LUSI South W

Project Owner:

John Hoy

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP:

John Hoy

03

Start Date:

1/11/2016

Q1 2016

Region:

Florida

04

Estimated End Date:

6/30/2017

Q2 2017

State:

FL

Project Type:

EH&S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$2,700,000

Still to be Requested:

Total Project Budget:

\$2,700,000

## Description:

Remove and replace water mains, reclaimed water mains and force mains located within the FDOT right-of-way that are in conflict with FDOT's road widening and stormwater improvements along US Highway 27 from Boggy Marsh Road to 1000' North of Lake Louisa Road.

## Timeline Considerations:

The work must be completed in accordance with the FDOT approved Utility Work Schedules as developed by our contracted engineers and the Utility. The FDOT contractor has 967 days to complete the State's project of which the Utility has 546 days in parallel to complete the relocation work.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

2015083

(If applicable)

**Justification and Benefits:**

The Utility has facilities that are located within the FDOT right of way and subject to the FDOT permitting requirements that include the requirement to relocate and/or adjust facilities that are in conflict with the Utility's assets and any state funded improvements. Engineering services provided by CPH under a separate project have identified approximately 9,195 LF of 16" water main, 142 LF of 8" water main, 2,460 LF of 12" force main, 40 LF of 8" reclaimed water main, 602 LF of 12" reclaimed water main and fittings that may be required to be adjusted, lowered, removed, replaced and reconnected. These quantities are based upon the FDOT roadway design plans with limited information provided in the form actual vertical and horizontal locations of the aforementioned facilities. Therefore the quantities of pipe that actually need to be relocated or adjusted are a worse case scenario. The selected contractor performing the Utility's work will first be tasked with field verifying the vertical and horizontal locations of the Utility's facilities and map these facilities to compare the existing locations to the FDOT plan set. This effort will identify actual conflicts as opposed to perceived conflicts and will likely reduce the number of conflicts and capital costs requested under this project. The project will be let under a Unit Cost Contract meaning that other than the general conditions, surveying/locates, preconstruction video and MOT costs, pay applications will be processed per LF of pipe installed and field verified.

All relocated facilities and fittings as well as existing facilities will be surveyed using State Plane coordinates. An AutoCAD file will be provided for use in uploading to a future GIS database.

**Risk Evaluation**

Failure to comply with the FDOT right of way permit conditions will result in the issuance of a Notice to Vacate the right of way that would negatively impact quality and availability of service to existing customers. It will be important to insure that our facilities are relocated efficiently and effectively in accordance with the approved Utility Work Schedules. Failure to do so may result in delays to FDOT's contractor and claims for damages.

**Alternatives Considered:**

Acquire easements along US 27 from private property owners to avoid the possibility of future relocation costs being born by the Utility. This project covers a seven mile section of the highway. Rerouting and replacing all of the existing facilities would result in higher construction costs as compared to the perceived 1/3rd of the pipeline being in conflict.

Minimum bury depth is 30" within grassy areas of the FDOT ROW. Where this minimum limit can be achieved, facilities will not be relocated or adjusted.

**Technical Review Summary:**

Responded to RFI as to the line item in the bid titled General Conditions and added the number of days to complete the project for the FDOT contractor and the Utility.



**Capital Plan**

Proposed Project Spend  
Project Spend in Current Plan

Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
2,700,000				
2,700,000				
-	-	-	-	-
2,700,000	2,700,000	2,700,000	2,700,000	2,700,000

(if applicable)

O&M Cost Impact B/(W)

--	--	--	--	--

**Financial Justification**

Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(29)	(29)
9,051	9,051

**Utility Financial Impact**

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-
(67,500)	(67,500)	(67,500)	(67,500)	(67,500)
	(192,375)	(187,313)	(182,250)	(177,188)
(67,500)	(259,875)	(254,813)	(249,750)	(244,688)

**Timing and Supporting Information on Rate Recovery**

The work must be completed in accordance with the FDOT approved Utility Work Schedules as developed by our contracted engineers and the Utility. The FDOT contractor has 967 days to complete the State's project of which the Utility has 546 days in parallel to complete the relocation work.

**Regulatory Plan Implications**

This project is in line with our Rate Case timing in June of 2016.

**Assumptions**



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$2,699,938	Yes
2	Central Florida Tapping & Construction Svcs	\$3,073,100	No
3	Boykin Construction	\$3,058,370	No

### Component:

### Amount

Value Bid Elements

2,700,000.00

should match selected bid(s) above

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Total Project Budget

2,700,000.00

should match Total Budget on General Information

Object Account(s) to which project will be closed:

1125

Trans & Distr Mains

1345

Sewer Force Main/Srvs Lines

1540

Reuse Transmission & Dist Sys

select from dropdown list

select from dropdown list

[Go to Reference List](#)

General Comments:



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 1/15/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

### Technical Peer Review

Review Sponsored by Patrick Flynn Date Held 1/14/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Christie Kincaid Date: 1/19/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 1/15/2016 ☒

VP Operations: Patrick C. Flynn Date: 1/15/2016 ☒

President: John P. Hoy Date: 1/19/2016 ☒

### Approval or Re-Direction Comments

SECTION 00410

BID FORM

PART 1 GENERAL

1.01 Description

The following Bid, for the (1) US 27 Utility Relocation Project, is hereby made to (2) Lake Utility Services Inc., hereafter called the Owner. This Bid is submitted by (3) Traverse Group Inc. - PO Box 121754 Clermont,  
FL 34712 (352) 409.6630

(1) Name of Project as shown in the Invitation for Bids

(2) Owner

(3) Name address and telephone number of Bidder

1.02 The Undersigned:

A Acknowledges receipt of:

- |   |   |        |               |       |                    |
|---|---|--------|---------------|-------|--------------------|
| 1 | Project Manual and Drawings identified within the Project Manual. |        |               |       |                    |
| 2 | Addenda:  | Number | <u>2</u>      | Dated | <u>Dec. 21, 15</u> |
|   |   | Number | <u>1</u>      | Dated | <u>Dec. 2, 15</u>  |
|   |   | Number | <u>      </u> | Dated | <u>      </u>      |
|   |   | Number | <u>      </u> | Dated | <u>      </u>      |

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security
3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents
5. To begin work no later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 547 calendar days of the date of the Notice to Proceed.

Traverse Group Inc.

Name of Bidder

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	GENERAL CONDITIONS	LS	1.00	195,000.00	\$195,000.00
2	PRECONSTRUCTION VIDEO	LS	1.00	10,000.00	\$10,000.00
3	PROJECT LAYOUT AND UTILITY LOCATES	LS	1.00	158,950.00	\$158,950.00
4	UTILITY MAINTENANCE OF TRAFFIC	LS	1.00	35,000.00	\$35,000.00
Water Main					
5	REMOVE AND REPLACE 8" WM	LF	142.00	75.00	\$10,650.00
6	REMOVE AND REPLACE 16" WM	LF	9,195.00	142.63	\$1,311,482.85
7	FURNISH AND INSTALL 8" 45 BEND	EA	11.00	420.00	\$4,620.00
8	FURNISH AND INSTALL 16" 22 BEND	EA	24.00	650.00	\$15,600.00
9	FURNISH AND INSTALL 16" 45 BEND	EA	84.00	650.00	\$54,600.00
10	FURNISH AND INSTALL 16" 90 BEND	EA	2.00	650.00	\$1,300.00
11	FURNISH AND INSTALL 8" GATE VALVE	EA	1.00	1,500.00	\$1,500.00
12	FURNISH AND INSTALL 8" LINE STOP	EA	1.00	12,500.00	\$12,500.00
13	FURNISH AND INSTALL 16" LINE STOP	EA	2.00	22,575.00	\$45,150.00
14	FURNISH AND INSTALL 16X8 TEE	EA	1.00	750.00	\$750.00
Force Main					
15	FURNISH AND INSTALL 6" FM	LF	5.00	150.00	\$750.00
16	REMOVE AND REPLACE 12" FM	LF	2,460.00	146.29	\$359,873.40
17	FURNISH AND INSTALL 6" 45 BEND	EA	2.00	400.00	\$800.00
18	FURNISH AND INSTALL 12" 45 BEND	EA	20.00	700.00	\$14,000.00
19	FURNISH AND INSTAL 6" PLUG VALVE	EA	1.00	2,000.00	\$2,000.00
20	FURNISH AND INSTALL 12" DUAL LINE STOP BYPASS	LF	2,460.00	75.00	\$184,500.00
Reclaimed					
21	FURNISH AND INSTALL 8" RWM	LF	40.00	110.00	\$4,400.00
22	REMOVE AND REPLACE 12" RWM	LF	602.00	125.75	\$75,701.50
23	FURNISH AND INSTALL 8" 45 BEND	EA	4.00	250.00	\$1,000.00
24	FURNISH AND INSTALL 12" 45 BEND	EA	18.00	400.00	\$7,200.00
25	FURNISH AND INSTALL 12" 90 BEND	EA	1.00	400.00	\$400.00
26	FURNISH AND INSTALL 12X8 TEE	EA	1.00	500.00	\$500.00
27	FURNISH AND INSTALL 12X12 TEE	EA	2.00	600.00	\$1,200.00
28	FURNISH AND INSTALL 8" GATE VALVE	EA	1.00	2,150.00	\$2,150.00
29	FURNISH AND INSTALL 12" GATE VALVE	EA	1.00	3,500.00	\$3,500.00
30	FURNISH AND INSTALL 12" CAP	EA	1.00	250.00	\$250.00
DEMOLITION					
31	ADJUSTMENT AND RELOCATION OF ARV	EA	9.00	5,750.00	\$51,750.00
32	ADJUSTMENT OF VALVE COLLAR	EA	34.00	350.00	\$11,900.00
33	RELOCATE VALVE	EA	9.00	6,500.00	\$58,500.00
34	REMOVE 30" STEEL CASING	LF	60.00	350.00	\$21,000.00
35	CONCRETE CAP	LF	20.00	225.00	\$4,500.00
36	OPEN CUT AND RESTORE ROADWAY	SY	924.00	40.00	\$36,960.00
Total Bid (In Numbers)				\$2,699,937.75	
Total Bid (In Writing) Two Million, Six Hundred Ninety Nine Thousand, Nine Hundred Thirty Seven and Seventy Five Cents					

Traverse Group, Inc.

Name of Bidder

00410-3



SECTION 00410

BID FORM

PART 1 GENERAL

1.01 Description

The following Bid, for the (1) US 27 Utility Relocation Project, is hereby made to (2) Lake Utility Services Inc., hereafter called the Owner. This Bid is submitted by (3) \_\_\_\_\_

CENTRAL Florida Tapping & Construction Services, Inc.

(1) Name of Project as shown in the Invitation for Bids

(2) Owner

(3) Name, address, and telephone number of Bidder

1.02 The Undersigned:

A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.

2. Addenda:	Number	<u>1</u>	Dated	<u>Dec. 2, 2015</u>
	Number	<u>2</u>	Dated	<u>Dec. 21, 2015</u>
	Number	_____	Dated	_____
	Number	_____	Dated	_____

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents.
5. To begin work no later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 547 calendar days of the date of the Notice to Proceed.

CENTRAL Florida Tapping  
Name of Bidder

6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### 1.03 Bid Schedule

The Bidder hereby agrees to perform all work as required by the Contract Documents for the following Unit Prices. All work required to be performed by the Contract Documents is to be included within the following Pay Items, inclusive of furnishing all manpower, equipment, materials and performance of all operations relative to construction of the project. Work for which there is not a Pay Item will be considered incidental to the Contract and no additional compensation will be allowed.

(This area left blank intentionally)

Central Florida Tapping  
Name of Bidder

00410-2

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	103,000.00	103,000.00
2	Preconstruction Video	LS	1	6,000.00	6,000.00
3	Project Layout and Utility Locates	LS	1	150,000.00	150,000.00
4	Utility Maintenance of Traffic	LS	1	52,000.00	52,000.00
<b>Water Main</b>					
5	Remove and Replace 8" WM	LF	142	60.00	8,520.00
6	Remove and Replace 16" WM	LF	9195	170.00	1,563,150.00
7	Furnish & Install 8" 45° Bend	EA	11	350.00	3,850.00
8	Furnish & Install 16" 22.5° Bend	EA	24	725.00	17,400.00
9	Furnish & Install 16" 45° Bend	EA	84	725.00	60,900.00
10	Furnish & Install 16" 90° Bend	EA	2	725.00	1,450.00
11	Furnish & Install 8" Gate Valve	EA	1	2,100.00	2,100.00
12	Furnish & Install 8" Line Stop	EA	1	7,500.00	7,500.00
13	Furnish & Install 16" Line Stop	EA	2	10,500.00	21,000.00
14	Furnish & Install 16" x 8" Tee	EA	1	1,225.00	1,225.00
<b>Force Main</b>					
15	Furnish & Install 6" FM	LF	5	125.00	625.00
16	Remove and Replace 12" FM	LF	2460	170.00	418,200.00
17	Furnish & Install 6" 45° Bend	EA	2	325.00	650.00
18	Furnish & Install 12" 45° Bend	EA	20	475.00	9,500.00
19	Furnish & Install 6" Plug Valve	EA	1	2,100.00	2,100.00
20	Furnish & Install 12" Dual Line Stop with By-pass	LF	2460	150.00	369,000.00
<b>Reclaimed</b>					
21	Furnish & Install 8" RWM	LF	40	80.00	3,200.00
22	Remove & Replace 12" RWM	LF	602	150.00	90,300.00
23	Furnish & Install 8" 45° Bend	EA	4	350.00	1,400.00
24	Furnish & Install 12" 45° Bend	EA	18	440.00	7,920.00
25	Furnish & Install 12" 90° Bend	EA	1	440.00	440.00
26	Furnish & Install 12"x 8" Tee	EA	1	525.00	525.00
27	Furnish & Install 12"x 12" Tee	EA	2	680.00	1,360.00
28	Furnish & Install 8" Gate Valve	EA	1	2,100.00	2,100.00
29	Furnish & Install 12" Gate Valve	EA	1	3,975.00	3,975.00
30	Furnish & Install 12" Cap	EA	1	150.00	150.00
<b>Demolition</b>					
31	Adjustment & Relocation of ARV	EA	9	3750.00	33,750.00
32	Adjustment of Valve Collar	EA	34	200.00	6,800.00
33	Relocate Valve	EA	9	4,100.00	36,900.00
34	Remove 30" Steel Casing	LF	60	275.00	16,500.00
35	Concrete Cap	LF	20	200.00	4,000.00
36	Open-cut and Restore Roadway	SY	924	65.00	60,060.00
<b>Total Bid (In Numbers)</b>					<b>3,073,100.00</b>

Total Bid (In Writing) *THREE Million, Seventy Three Thousand, One Hundred & 00/100*

*Central Florida Tapping*  
Name of Bidder

00410-3

## SECTION 00410

### BID FORM

#### PART 1 GENERAL

##### 1.01 Description

The following Bid, for the (1) US 27 Utility Relocation Project, is hereby made to (2) Lake Utility Services Inc., hereafter called the Owner. This Bid is submitted by (3) Boykin Construction

(1) Name of Project as shown in the Invitation for Bids

(2) Owner

(3) Name, address, and telephone number of Bidder

##### 1.02 The Undersigned:

###### A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.

2. Addenda:	Number	<u>1</u>	Dated	<u>12/3 2015</u>
	Number	<u>2</u>	Dated	<u>12/22 2015</u>
	Number	<u>      </u>	Dated	<u>      </u>
	Number	<u>      </u>	Dated	<u>      </u>

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

###### C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents.
5. To begin work no later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 547 calendar days of the date of the Notice to Proceed.

Name of Bidder

6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### **1.03 Bid Schedule**

The Bidder hereby agrees to perform all work as required by the Contract Documents for the following Unit Prices. All work required to be performed by the Contract Documents is to be included within the following Pay Items, inclusive of furnishing all manpower, equipment, materials and performance of all operations relative to construction of the project. Work for which there is not a Pay Item will be considered incidental to the Contract and no additional compensation will be allowed.

(This area left blank intentionally)



ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	285,000. <sup>00</sup>	285,000. <sup>00</sup>
2	Preconstruction Video	LS	1	18,500. <sup>00</sup>	18,500. <sup>00</sup>
3	Project Layout and Utility Locates	LS	1	210,000. <sup>00</sup>	210,000. <sup>00</sup>
4	Utility Maintenance of Traffic	LS	1	85,000. <sup>00</sup>	85,000. <sup>00</sup>
<b>Water Main</b>					
5	Remove and Replace 8" WM	LF	142	75. <sup>00</sup>	10,650. <sup>00</sup>
6	Remove and Replace 16" WM	LF	9195	122. <sup>00</sup>	1,121,790. <sup>00</sup>
7	Furnish & Install 8" 45° Bend	EA	11	500. <sup>00</sup>	5,500. <sup>00</sup>
8	Furnish & Install 16" 22.5° Bend	EA	24	1,015. <sup>00</sup>	24,360. <sup>00</sup>
9	Furnish & Install 16" 45° Bend	EA	84	1,050. <sup>00</sup>	88,200. <sup>00</sup>
10	Furnish & Install 16" 90° Bend	EA	2	1,075. <sup>00</sup>	2,150. <sup>00</sup>
11	Furnish & Install 8" Gate Valve	EA	1	2,750. <sup>00</sup>	2,750. <sup>00</sup>
12	Furnish & Install 8" Line Stop	EA	1	15,000. <sup>00</sup>	15,000. <sup>00</sup>
13	Furnish & Install 16" Line Stop	EA	2	27,500. <sup>00</sup>	55,000. <sup>00</sup>
14	Furnish & Install 16" x 8" Tee	EA	1	2,000. <sup>00</sup>	2,000. <sup>00</sup>
<b>Force Main</b>					
15	Furnish & Install 6" FM	LF	5	100. <sup>00</sup>	500. <sup>00</sup>
16	Remove and Replace 12" FM	LF	2460	155. <sup>00</sup>	381,300. <sup>00</sup>
17	Furnish & Install 6" 45° Bend	EA	2	650. <sup>00</sup>	1,300. <sup>00</sup>
18	Furnish & Install 12" 45° Bend	EA	20	950. <sup>00</sup>	19,000. <sup>00</sup>
19	Furnish & Install 6" Plug Valve	EA	1	2,200. <sup>00</sup>	2,200. <sup>00</sup>
20	Furnish & Install 12" Dual Line Stop with By-pass	LF	2460	175. <sup>00</sup>	430,500. <sup>00</sup>
<b>Reclaimed</b>					
21	Furnish & Install 8" RWM	LF	40	45. <sup>00</sup>	1,800. <sup>00</sup>
22	Remove & Replace 12" RWM	LF	602	110. <sup>00</sup>	66,220. <sup>00</sup>
23	Furnish & Install 8" 45° Bend	EA	4	400. <sup>00</sup>	1,600. <sup>00</sup>
24	Furnish & Install 12" 45° Bend	EA	18	850. <sup>00</sup>	15,300. <sup>00</sup>
25	Furnish & Install 12" 90° Bend	EA	1	950. <sup>00</sup>	950. <sup>00</sup>
26	Furnish & Install 12"x 8" Tee	EA	1	1,250. <sup>00</sup>	1,250. <sup>00</sup>
27	Furnish & Install 12"x12" Tee	EA	2	1,500. <sup>00</sup>	3,000. <sup>00</sup>
28	Furnish & Install 8" Gate Valve	EA	1	2,500. <sup>00</sup>	2,500. <sup>00</sup>
29	Furnish & Install 12" Gate Valve	EA	1	4,750. <sup>00</sup>	4,750. <sup>00</sup>
30	Furnish & Install 12" Cap	EA	1	100. <sup>00</sup>	100. <sup>00</sup>
<b>Demolition</b>					
31	Adjustment & Relocation of ARV	EA	9	8,500. <sup>00</sup>	76,500. <sup>00</sup>
32	Adjustment of Valve Collar	EA	34	200. <sup>00</sup>	6,800. <sup>00</sup>
33	Relocate Valve	EA	9	5,000. <sup>00</sup>	45,000. <sup>00</sup>
34	Remove 30" Steel Casing	LF	60	750. <sup>00</sup>	45,000. <sup>00</sup>
35	Concrete Cap	LF	20	190. <sup>00</sup>	3,800. <sup>00</sup>
36	Opencut and Restore Roadway	SY	924	25. <sup>00</sup>	23,100. <sup>00</sup>

Total Bid (In Numbers)

3,058,370.<sup>00</sup>

Total Bid (In Writing)

Three million fifty eight thousand three hundred seventy Dollars

SECTION 00530

NOTICE TO PROCEED FORM

TO: Traverse Group Inc.  
PO Box 121754  
Clermont FL 34712

DATE: January 21, 2016

PROJECT: US 27 Phase 3 Utility Relocation

You are hereby notified to commence WORK in accordance with the Agreement dated January 22, 2016. This Notice authorizes the CONTRACTOR to commence construction, and, in accordance with the Agreement, all work shall be substantially complete within 547 calendar days of the date of this Notice to Proceed. Therefore, the date of substantial completion is 7/22/2017. The date of Final completion is 8/31/2017.

ISSUED BY: Utilities Inc. of Florida - Lake Utility Services  
(Name of OWNER)

Bryan K. Gongre  
By (Signature)

Bryan K. Gongre, Regional Manager  
(Printed Name and Title)

ACCEPTANCE OF NOTICE

Receipt and acceptance of the above NOTICE TO PROCEED is hereby acknowledged by Alicia Roehn this 22 day of January, 2016.

Alicia Roehn  
By

Alicia Roehn - Corporate Secretary  
Printed Name and Title

END OF SECTION



SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 THIS AGREEMENT, made this 21 day of January, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Traverse Group, Inc., whose principal and local address is PO Box 121754 Clermont FL, hereinafter called the Contractor.

34712

1.02 The Owner and Contractor Agree as follows:

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, ~~the Bonds~~, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

AR

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the US 27 Phase 3 Utility Relocation Project.

C. Contract Time

The Contractor shall begin work after the issuance of a written Notice to Proceed from Owner and shall substantially complete the work within the Contract Time identified in Paragraphs 1.02.C.5 of the Bid Form, which is 547 calendar days. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$250.00 for each calendar day

00520-1

that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth (¼) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of Two million Six hundred ninety-nine thousand nine hundred thirty Seven Dollars (Seventy five). & Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein. # 2,699,937 75

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

H. Engineer

The Project has been designed by CPH, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Traverse Group, Inc.  
Name of Firm

[Signature]  
By (Signature)

(SEAL)

Alicia Roehn - Corporate Secretary  
Printed Name and Title

ATTEST:

[Signature]  
By (Signature)

Stephen A. Shafer - VP  
Printed Name and Title

OWNER:

Utilities Inc of Florida - Lake Utility Services.  
Name of Owner

[Signature]  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Mgr.  
Printed Name and Title

ATTEST:

[Signature]  
By (Signature)

NATE CARVER, BUSINESS DEVELOPER  
Printed Name and Title

END OF SECTION



ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	GENERAL CONDITIONS	LS	1.00	195,000.00	\$195,000.00
2	PRECONSTRUCTION VIDEO	LS	1.00	10,000.00	\$10,000.00
3	PROJECT LAYOUT AND UTILITY LOCATES	LS	1.00	158,950.00	\$158,950.00
4	UTILITY MAINTENANCE OF TRAFFIC	LS	1.00	35,000.00	\$35,000.00
Water Main					
5	REMOVE AND REPLACE 8" WM	LF	142.00	75.00	\$10,650.00
6	REMOVE AND REPLACE 16" WM	LF	9,195.00	142.63	\$1,311,482.85
7	FURNISH AND INSTALL 8" 45 BEND	EA	11.00	420.00	\$4,620.00
8	FURNISH AND INSTALL 16" 22 BEND	EA	24.00	650.00	\$15,600.00
9	FURNISH AND INSTALL 16" 45 BEND	EA	84.00	650.00	\$54,600.00
10	FURNISH AND INSTALL 16" 90 BEND	EA	2.00	650.00	\$1,300.00
11	FURNISH AND INSTALL 8" GATE VALVE	EA	1.00	1,500.00	\$1,500.00
12	FURNISH AND INSTALL 8" LINE STOP	EA	1.00	12,500.00	\$12,500.00
13	FURNISH AND INSTALL 16" LINE STOP	EA	2.00	22,575.00	\$45,150.00
14	FURNISH AND INSTALL 16X8 TEE	EA	1.00	750.00	\$750.00
Force Main					
15	FURNISH AND INSTALL 6" FM	LF	5.00	150.00	\$750.00
16	REMOVE AND REPLACE 12" FM	LF	2,460.00	146.29	\$359,873.40
17	FURNISH AND INSTALL 6" 45 BEND	EA	2.00	400.00	\$800.00
18	FURNISH AND INSTALL 12" 45 BEND	EA	20.00	700.00	\$14,000.00
19	FURNISH AND INSTAL 6" PLUG VALVE	EA	1.00	2,000.00	\$2,000.00
20	FURNISH AND INSTALL 12" DUAL LINE STOP BYPASS	LF	2,460.00	75.00	\$184,500.00
Reclaimed					
21	FURNISH AND INSTALL 8" RWM	LF	40.00	110.00	\$4,400.00
22	REMOVE AND REPLACE 12" RWM	LF	602.00	125.75	\$75,701.50
23	FURNISH AND INSTALL 8" 45 BEND	EA	4.00	250.00	\$1,000.00
24	FURNISH AND INSTALL 12" 45 BEND	EA	18.00	400.00	\$7,200.00
25	FURNISH AND INSTALL 12" 90 BEND	EA	1.00	400.00	\$400.00
26	FURNISH AND INSTALL 12X8 TEE	EA	1.00	500.00	\$500.00
27	FURNISH AND INSTALL 12X12 TEE	EA	2.00	600.00	\$1,200.00
28	FURNISH AND INSTALL 8" GATE VALVE	EA	1.00	2,150.00	\$2,150.00
29	FURNISH AND INSTALL 12" GATE VALVE	EA	1.00	3,500.00	\$3,500.00
30	FURNISH AND INSTALL 12" CAP	EA	1.00	250.00	\$250.00
DEMOLITION					
31	ADJUSTMENT AND RELOCATION OF ARV	EA	9.00	5,750.00	\$51,750.00
32	ADJUSTMENT OF VALVE COLLAR	EA	34.00	350.00	\$11,900.00
33	RELOCATE VALVE	EA	9.00	6,500.00	\$58,500.00
34	REMOVE 30" STEEL CASING	LF	60.00	350.00	\$21,000.00
35	CONCRETE CAP	LF	20.00	225.00	\$4,500.00
36	OPEN CUT AND RESTORE ROADWAY	SY	924.00	40.00	\$36,960.00
Total Bid (In Numbers)				\$2,699,937.75	
Total Bid (In Writing) Two Million, Six Hundred Ninety Nine Thousand, Nine Hundred Thirty Seven and Seventy Five Cents					

TRAVERSE GROUP, INC.

Name of Bidder

00410-3

SECTION 00530

NOTICE TO PROCEED FORM

TO: Traverse Group Inc.  
PO Box 121754  
Clermont FL 34712

DATE: January 21, 2016

PROJECT: US 27 Phase 3 Utility Relocation

You are hereby notified to commence WORK in accordance with the Agreement dated January 22, 2016. This Notice authorizes the CONTRACTOR to commence construction, and, in accordance with the Agreement, all work shall be substantially complete within 547 calendar days of the date of this Notice to Proceed. Therefore, the date of substantial completion is 7/22/2017. The date of Final completion is 8/31/2017.

ISSUED BY: Utilities Inc. of Florida - Lake Utility Services  
(Name of OWNER)

Bryan K. Gongre  
By (Signature)

Bryan K. Gongre, Regional Manager  
(Printed Name and Title)

ACCEPTANCE OF NOTICE

Receipt and acceptance of the above NOTICE TO PROCEED is hereby acknowledged by Alicia Roehn this 22 day of January, 2016.

Alicia Roehn  
By

Alicia Roehn - Corporate Secretary  
Printed Name and Title

END OF SECTION



SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 THIS AGREEMENT, made this 21 day of January, 2016, by and between Utilities Inc of Florida, hereinafter called the Owner, and Traverse Group, Inc, whose principal and local address is PO Box 121754 Clermont FL, hereinafter called the Contractor.

34712

1.02 The Owner and Contractor Agree as follows:

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, ~~the Bonds~~, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein. AR

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the US 27 Phase 3 Utility Relocation Project.

C. Contract Time

The Contractor shall begin work after the issuance of a written Notice to Proceed from Owner and shall substantially complete the work within the Contract Time identified in Paragraphs 1.02.C.5 of the Bid Form, which is 547 calendar days. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$250.00 for each calendar day

that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth (¼) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of Two million Six hundred ninety nine thousand nine hundred thirty seven Dollars (Seventy five). & Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein. \$ 2,699,937.75

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

H. Engineer

The Project has been designed by CPH, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Traverse Group, Inc.  
Name of Firm

[Signature]  
By (Signature)

(SEAL)

Alicia Roehn - Corporate Secretary  
Printed Name and Title

ATTEST:

[Signature]  
By (Signature)

Stephen A. Shafer - VP  
Printed Name and Title

OWNER:

Utilities Inc of Florida - Lake Utility Services.  
Name of Owner

[Signature]  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Mgr.  
Printed Name and Title

ATTEST:

[Signature]  
By (Signature)

NATE CARVER, BUSINESS DEVELOPER  
Printed Name and Title

END OF SECTION



ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	GENERAL CONDITIONS	LS	1.00	195,000.00	\$195,000.00
2	PRECONSTRUCTION VIDEO	LS	1.00	10,000.00	\$10,000.00
3	PROJECT LAYOUT AND UTILITIY LOCATES	LS	1.00	158,950.00	\$158,950.00
4	UTILITY MAINTENANCE OF TRAFFIC	LS	1.00	35,000.00	\$35,000.00
Water Main					
5	REMOVE AND REPLACE 8" WM	LF	142.00	75.00	\$10,650.00
6	REMOVE AND REPLACE 16" WM	LF	9,195.00	142.63	\$1,311,482.85
7	FURNISH AND INSTALL 8" 45 BEND	EA	11.00	420.00	\$4,620.00
8	FURNISH AND INSTALL 16" 22 BEND	EA	24.00	650.00	\$15,600.00
9	FURNISH AND INSTALL 16" 45 BEND	EA	84.00	650.00	\$54,600.00
10	FURNISH AND INSTALL 16" 90 BEND	EA	2.00	650.00	\$1,300.00
11	FURNISH AND INSTALL 8" GATE VALVE	EA	1.00	1,500.00	\$1,500.00
12	FURNISH AND INSTALL 8" LINE STOP	EA	1.00	12,500.00	\$12,500.00
13	FURNISH AND INSTALL 16" LINE STOP	EA	2.00	22,575.00	\$45,150.00
14	FURNISH AND INSTALL 16X8 TEE	EA	1.00	750.00	\$750.00
Force Main					
15	FURNISH AND INSTALL 6" FM	LF	5.00	150.00	\$750.00
16	REMOVE AND REPLACE 12" FM	LF	2,460.00	146.29	\$359,873.40
17	FURNISH AND INSTALL 6" 45 BEND	EA	2.00	400.00	\$800.00
18	FURNISH AND INSTALL 12" 45 BEND	EA	20.00	700.00	\$14,000.00
19	FURNISH AND INSTAL 6" PLUG VALVE	EA	1.00	2,000.00	\$2,000.00
20	FURNISH AND INSTALL 12" DUAL LINE STOP BYPASS	LF	2,460.00	75.00	\$184,500.00
Reclaimed					
21	FURNISH AND INSTALL 8" RWM	LF	40.00	110.00	\$4,400.00
22	REMOVE AND REPLACE 12" RWM	LF	602.00	125.75	\$75,701.50
23	FURNISH AND INSTALL 8" 45 BEND	EA	4.00	250.00	\$1,000.00
24	FURNISH AND INSTALL 12" 45 BEND	EA	18.00	400.00	\$7,200.00
25	FURNISH AND INSTALL 12" 90 BEND	EA	1.00	400.00	\$400.00
26	FURNISH AND INSTALL 12X8 TEE	EA	1.00	500.00	\$500.00
27	FURNISH AND INSTALL 12X12 TEE	EA	2.00	600.00	\$1,200.00
28	FURNISH AND INSTALL 8" GATE VALVE	EA	1.00	2,150.00	\$2,150.00
29	FURNISH AND INSTALL 12" GATE VALVE	EA	1.00	3,500.00	\$3,500.00
30	FURNISH AND INSTALL 12" CAP	EA	1.00	250.00	\$250.00
DEMOLITION					
31	ADJUSTMENT AND RELOCATION OF ARV	EA	9.00	5,750.00	\$51,750.00
32	ADJUSTMENT OF VALVE COLLAR	EA	34.00	350.00	\$11,900.00
33	RELOCATE VALVE	EA	9.00	6,500.00	\$58,500.00
34	REMOVE 30" STEEL CASING	LF	60.00	350.00	\$21,000.00
35	CONCRETE CAP	LF	20.00	225.00	\$4,500.00
36	OPEN CUT AND RESTORE ROADWAY	SY	924.00	40.00	\$36,960.00
	Total Bid (In Numbers)			\$2,699,937.75	
	Total Bid (In Writing) Two Million, Six Hundred Ninety Nine Thousand, Nine Hundred Thirty Seven and Seventy Five Cents				

TRAVERSE GROUP, INC.

Name of Bidder

00410-3

# SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

Address: **PO BOX 121754**

City: **CLERMONT**

Phone: **352.409.6630**

State: **FL**

Zip: **34712**

Fax: **877.532.8247**

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.: **1**

APPLICATION FOR PAYMENT NO. **1**

PERIOD ENDING: **1.31.16**

SUBCONTRACTORS INVOICE #: **2015UI2D1**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	General Conditions	1.000	LS	\$ 195,000.00	\$ 195,000.00		\$ -	0.300	\$ 58,500.00	0.300	\$ 58,500.00	30%
2	Preconstruction Video	1.000	LS	\$ 10,000.00	\$ 10,000.00		\$ -	1.000	\$ 10,000.00	1.000	\$ 10,000.00	100%
3	Project Layout and Utility Locates	1.000	LS	\$ 158,950.00	\$ 158,950.00		\$ -	0.500	\$ 79,475.00	0.500	\$ 79,475.00	50%
4	Utility Maintenance of Traffic	1.000	LS	\$ 35,000.00	\$ 35,000.00		\$ -	0.200	\$ 7,000.00	0.200	\$ 7,000.00	20%
<b>WM</b>					\$ -		\$ -		\$ -		\$ -	
1	R&R 8" WM	142.000	LF	\$ 75.00	\$ 10,650.00		\$ -		\$ -		\$ -	
2	R&R 16" WM	9,195.000	LF	\$ 142.63	\$ 1,311,482.85		\$ -		\$ -		\$ -	
3	F&I 8" 45 Bend	11.000	EA	\$ 420.00	\$ 4,620.00		\$ -		\$ -		\$ -	
4	F&I 16" 22 Bend	24.000	EA	\$ 650.00	\$ 15,600.00		\$ -		\$ -		\$ -	
5	F&I 16" 45 Bend	84.000	EA	\$ 650.00	\$ 54,600.00		\$ -		\$ -		\$ -	
6	F&I 16" 90 Bend	2.000	EA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -	
7	F&I 8" GV	1.000	EA	\$ 1,500.00	\$ 1,500.00		\$ -		\$ -		\$ -	
8	F&I 8" Line Stop	1.000	EA	\$ 12,500.00	\$ 12,500.00		\$ -		\$ -		\$ -	
9	F&I 16" Line Stop	2.000	EA	\$ 22,575.00	\$ 45,150.00		\$ -		\$ -		\$ -	
10	F&I 16x8 Tee	1.000	EA	\$ 750.00	\$ 750.00		\$ -		\$ -		\$ -	
<b>FM</b>					\$ -		\$ -		\$ -		\$ -	
1	F&I 6" FM	5.000	LF	\$ 150.00	\$ 750.00		\$ -		\$ -		\$ -	
2	R&R 12" FM	2,460.000	LF	\$ 146.29	\$ 359,873.40		\$ -		\$ -		\$ -	
3	F&I 6" 45 Bend	2.000	EA	\$ 400.00	\$ 800.00		\$ -		\$ -		\$ -	
4	F&I 12" 45 Bend	20.000	EA	\$ 700.00	\$ 14,000.00		\$ -		\$ -		\$ -	
5	F&I 6" Plug Valve	1.000	EA	\$ 2,000.00	\$ 2,000.00		\$ -		\$ -		\$ -	
6	F&I 12" Dual Line Stop Bypass	2,460.000	LF	\$ 75.00	\$ 184,500.00		\$ -		\$ -		\$ -	
<b>RWM</b>					\$ -		\$ -		\$ -		\$ -	
1	F&I 8" RWM	40.000	LF	\$ 110.00	\$ 4,400.00		\$ -		\$ -		\$ -	
2	R&R 12" RWM	602.000	LF	\$ 125.75	\$ 75,701.50		\$ -		\$ -		\$ -	
3	F&I 8" 45 Bend	4.000	EA	\$ 250.00	\$ 1,000.00		\$ -		\$ -		\$ -	
4	F&I 12" 45 Bend	18.000	EA	\$ 400.00	\$ 7,200.00		\$ -		\$ -		\$ -	
5	F&I 12" 90 Bend	1.000	EA	\$ 400.00	\$ 400.00		\$ -		\$ -		\$ -	
6	F&I 12x8 Tee	1.000	EA	\$ 500.00	\$ 500.00		\$ -		\$ -		\$ -	
7	F&I 12x12 Tee	2.000	EA	\$ 600.00	\$ 1,200.00		\$ -		\$ -		\$ -	
8	F&I 8" GV	1.000	EA	\$ 2,150.00	\$ 2,150.00		\$ -		\$ -		\$ -	
9	F&I 12" GV	1.000	EA	\$ 3,500.00	\$ 3,500.00		\$ -		\$ -		\$ -	
10	F&I 12" Cap	1.000	EA	\$ 250.00	\$ 250.00		\$ -		\$ -		\$ -	
<b>DEMO</b>					\$ -		\$ -		\$ -		\$ -	
1	Adjust and Relocate ARV	9.000	EA	\$ 5,750.00	\$ 51,750.00		\$ -		\$ -		\$ -	
2	Adjust Valve Collar	34.000	EA	\$ 350.00	\$ 11,900.00		\$ -		\$ -		\$ -	
3	Relocate Valve	9.000	EA	\$ 6,500.00	\$ 58,500.00		\$ -		\$ -		\$ -	
4	Remove 30" Steel Casing	60.000	LF	\$ 350.00	\$ 21,000.00		\$ -		\$ -		\$ -	
5	Concrete Cap	20.000	LF	\$ 225.00	\$ 4,500.00		\$ -		\$ -		\$ -	
6	Open Cut and Restore Roadway	924.000	SY	\$ 40.00	\$ 36,960.00		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	



## SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

Address: **PO BOX 121754**

City: CLERMONT

State: **FL**

Zip: **34712**

Phone: **352.409.6630**

Fax: 877.532.8247

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

APPLICATION FOR PAYMENT NO.

**1**

**PERIOD ENDING:**

**1.31.16**

SUBCONTRACTORS INVOICE #:

2015UI2D1

					\$ -		\$ -		\$ -		\$ -		
ORIGINAL CONTRACT TOTALS						\$ 2,699,937.75		\$ -		\$ 154,975.00		\$ 154,975.00	100.0%

Authorized Change Orders					Previous Payments		Pay Request this Period		Total to Date		% Complete	
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity		Total
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
CHANGE ORDER TOTALS					\$ -		\$ -		\$ -		\$ -	
The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.						Work Performed to Date on Original Contract Amount					\$ 154,975.00	
						Work Performed on Change Orders					\$ -	
						Materials Stored					\$ -	
						Total Completed & Stored					\$ 154,975.00	
						Retainage To Be Withheld 10%					- \$ 15,497.50	
						Less Previous Payments / Applications					- \$ -	
						Payment Amount Due This Application					\$ 139,477.50	
SUBCONTRACTOR SIGNATURE					DATE							

+

Company: **TRAVERSE GROUP, INC**Address: **PO BOX 121754**City: **CLERMONT**Phone: **352.409.6630**State: **FL**Zip: **34712**Fax: **877.532.8247****SUBCONTRACTOR APPLICATION FOR PAYMENT**PROJECT: **US 27 Utility Relocation Phase 3 LUSI**JOB NO.: **2**APPLICATION FOR PAYMENT NO. **2**PERIOD ENDING: **2.29.16**SUBCONTRACTORS INVOICE #: **2015UI2D2**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	General Conditions	1.000	LS	\$ 195,000.00	\$ 195,000.00	0.300	\$ 58,500.00	0.500	\$ 97,500.00	0.800	\$ 156,000.00	80%
2	Preconstruction Video	1.000	LS	\$ 10,000.00	\$ 10,000.00	1.000	\$ 10,000.00		\$ -	1.000	\$ 10,000.00	100%
3	Project Layout and Utility Locates	1.000	LS	\$ 158,950.00	\$ 158,950.00	0.500	\$ 79,475.00	0.300	\$ 47,685.00	0.800	\$ 127,160.00	80%
4	Utility Maintenance of Traffic	1.000	LS	\$ 35,000.00	\$ 35,000.00	0.200	\$ 7,000.00	0.200	\$ 7,000.00	0.400	\$ 14,000.00	40%
<b>WM</b>												
1	R&R 8" WM	142.000	LF	\$ 75.00	\$ 10,650.00		\$ -		\$ -		\$ -	
2	R&R 16" WM	2,750.000	LF	\$ 142.63	\$ 392,232.50		\$ -	1,500.000	\$ 213,945.00	1,500.000	\$ 213,945.00	55%
3	Lower 16" WM	1,500.000	LF	\$ 105.00	\$ 157,500.00		\$ -	1,725.349	\$ 181,161.65	1,725.349	\$ 181,161.65	115%
4	16" Joint Restraints	28.000	EA	\$ 700.00	\$ 19,600.00		\$ -		\$ -		\$ -	
5	F&I 8" 45 Bend	11.000	EA	\$ 420.00	\$ 4,620.00		\$ -		\$ -		\$ -	
6	F&I 16" 22 Bend	5.000	EA	\$ 650.00	\$ 3,250.00		\$ -		\$ -		\$ -	
7	F&I 16" 45 Bend	24.000	EA	\$ 650.00	\$ 15,600.00		\$ -	14.000	\$ 9,100.00	14.000	\$ 9,100.00	58%
8	F&I 16" 90 Bend	2.000	EA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -	
9	F&I 16" Long Sleeve		EA	\$ 650.00	\$ -		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 1,500.00	\$ 1,500.00		\$ -		\$ -		\$ -	
11	F&I 8" Line Stop	1.000	EA	\$ 12,500.00	\$ 12,500.00		\$ -		\$ -		\$ -	
12	F&I 16" Line Stop	2.000	EA	\$ 22,575.00	\$ 45,150.00		\$ -		\$ -		\$ -	
13	F&I 16x8 Tee	1.000	EA	\$ 750.00	\$ 750.00		\$ -		\$ -		\$ -	
14	Directional Bore 16" WM	900.000	LF	\$ 165.00	\$ 148,500.00		\$ -		\$ -		\$ -	
<b>FM</b>												
1	F&I 6" FM	5.000	LF	\$ 150.00	\$ 750.00		\$ -		\$ -		\$ -	
2	R&R 12" FM		LF	\$ 146.29	\$ -		\$ -		\$ -		\$ -	
3	Lower 12" FM	1,050.000	LF	\$ 146.29	\$ 153,604.50		\$ -	200.000	\$ 29,258.00	200.000	\$ 29,258.00	19%
4	12" Joint Restraints	10.000	EA	\$ 550.00	\$ 5,500.00		\$ -		\$ -		\$ -	
5	F&I 6" 45 Bend		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 45 Bend		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
8	F&I 6" Plug Valve		EA	\$ 2,000.00	\$ -		\$ -		\$ -		\$ -	
9	F&I 12" Dual Line Stop Bypass		LF	\$ 75.00	\$ -		\$ -		\$ -		\$ -	
<b>RWM</b>												
1	F&I 8" RWM	40.000	LF	\$ 110.00	\$ 4,400.00		\$ -		\$ -		\$ -	
2	R&R 12" RWM	602.000	LF	\$ 125.75	\$ 75,701.50		\$ -		\$ -		\$ -	
3	12" Joint Restraints		EA	\$ 550.00	\$ -		\$ -		\$ -		\$ -	
4	F&I 8" 45 Bend	4.000	EA	\$ 250.00	\$ 1,000.00		\$ -		\$ -		\$ -	
5	F&I 12" 45 Bend	20.000	EA	\$ 400.00	\$ 8,000.00		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 90 Bend	1.000	EA	\$ 400.00	\$ 400.00		\$ -		\$ -		\$ -	
8	F&I 12x8 Tee	1.000	EA	\$ 500.00	\$ 500.00		\$ -		\$ -		\$ -	
9	F&I 12x12 Tee	2.000	EA	\$ 600.00	\$ 1,200.00		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 2,150.00	\$ 2,150.00		\$ -		\$ -		\$ -	
11	F&I 12" GV	1.000	EA	\$ 3,500.00	\$ 3,500.00		\$ -		\$ -		\$ -	

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**SUBCONTRACTOR APPLICATION FOR PAYMENT**Company: **TRAVERSE GROUP, INC**PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

Address: **PO BOX 121754**APPLICATION FOR PAYMENT NO. **2**City: **CLERMONT**State: **FL**

Zip:

**34712**PERIOD ENDING: **2.29.16**Phone: **352.409.6630**Fax: **877.532.8247**SUBCONTRACTORS INVOICE #: **2015UI2D2**

12	F&I 12" Cap	1.000	EA	\$ 250.00	\$ 250.00		\$ -		\$ -		\$ -	
13	Directional Bore 12" RWM	900.000	LF	\$ 140.00	\$ 126,000.00		\$ -		\$ -		\$ -	
DEMO					\$ -		\$ -		\$ -		\$ -	
1	Adjust and Relocate ARV	9.000	EA	\$ 5,750.00	\$ 51,750.00		\$ -		\$ -		\$ -	
2	Adjust Valve Collar	34.000	EA	\$ 350.00	\$ 11,900.00		\$ -		\$ -		\$ -	
3	Relocate Valve	1.000	EA	\$ 6,500.00	\$ 6,500.00		\$ -	0.500	\$ 3,250.00	0.500	\$ 3,250.00	
4	Remove 30" Steel Casing		LF	\$ 350.00	\$ -		\$ -		\$ -		\$ -	
5	Concrete Cap	20.000	LF	\$ 225.00	\$ 4,500.00		\$ -		\$ -		\$ -	
6	Open Cut and Restore Roadway	924.000	SY	\$ 40.00	\$ 36,960.00		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
ORIGINAL CONTRACT TOTALS					\$ 1,706,668.50		\$ 154,975.00		\$ 588,899.65		\$ 743,874.65	100.0%

Authorized Change Orders						Previous Payments		Pay Request this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
CHANGE ORDER TOTALS						\$ -		\$ -		\$ -		
The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.  <div><div>Alicia Roehn</div><div>2/24/2016</div><div>SUBCONTRACTOR SIGNATUREDATE</div></div>								Work Performed to Date on Original Contract Amount		\$ 743,874.65		
								Work Performed on Change Orders		\$ -		
								Materials Stored		\$ -		
								Total Completed & Stored		\$ 743,874.65		
								Retainage To Be Withheld 10%		- \$ 70,964.85		
								Less Previous Payments / Applications (Less Retainage)		- \$ 139,477.49		
								Payment Amount Due This Application		\$ 533,432.30		



# SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

Address: **PO BOX 121754**

City: **CLERMONT**

Phone: **352.409.6630**

State: **FL**

Zip: **34712**

Fax: **877.532.8247**

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.: **3**

APPLICATION FOR PAYMENT NO. **3**

PERIOD ENDING: **3.31.16**

SUBCONTRACTORS INVOICE #: **2015UI2D3**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	General Conditions	1.000	LS	\$ 195,000.00	\$ 195,000.00	0.800	\$ 156,000.00	0.150	\$ 29,250.00	0.950	\$ 185,250.00	95%
2	Preconstruction Video	1.000	LS	\$ 10,000.00	\$ 10,000.00	1.000	\$ 10,000.00		\$ -	1.000	\$ 10,000.00	100%
3	Project Layout and Utility Locates	1.000	LS	\$ 158,950.00	\$ 158,950.00	0.800	\$ 127,160.00	0.150	\$ 23,842.50	0.950	\$ 151,002.50	95%
4	Utility Maintenance of Traffic	1.000	LS	\$ 35,000.00	\$ 35,000.00	0.400	\$ 14,000.00	0.400	\$ 14,000.00	0.800	\$ 28,000.00	80%
<b>WM</b>					\$ -		\$ -		\$ -		\$ -	
1	R&R 8" WM	142.000	LF	\$ 75.00	\$ 10,650.00		\$ -		\$ -		\$ -	
2	R&R 16" WM	2,750.000	LF	\$ 142.63	\$ 392,232.50	1,500.000	\$ 213,945.00	1,100.000	\$ 156,893.00	2,600.000	\$ 370,838.00	95%
3	Lower 16" WM	1,500.000	LF	\$ 105.00	\$ 157,500.00	1,725.349	\$ 181,161.65		\$ -	1,725.349	\$ 181,161.65	115%
4	16" Joint Restraints	28.000	EA	\$ 700.00	\$ 19,600.00		\$ -	28.000	\$ 19,600.00	28.000	\$ 19,600.00	100%
5	F&I 8" 45 Bend	11.000	EA	\$ 420.00	\$ 4,620.00		\$ -	5.000	\$ 2,100.00	5.000	\$ 2,100.00	45%
6	F&I 16" 22 Bend	5.000	EA	\$ 650.00	\$ 3,250.00		\$ -	5.000	\$ 3,250.00	5.000	\$ 3,250.00	100%
7	F&I 16" 45 Bend	24.000	EA	\$ 650.00	\$ 15,600.00	14.000	\$ 9,100.00	10.000	\$ 6,500.00	24.000	\$ 15,600.00	100%
8	F&I 16" 90 Bend	2.000	EA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -	
9	F&I 16" Long Sleeve		EA	\$ 650.00	\$ -		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 1,500.00	\$ 1,500.00		\$ -		\$ -		\$ -	
11	F&I 8" Line Stop	1.000	EA	\$ 12,500.00	\$ 12,500.00		\$ -		\$ -		\$ -	
12	F&I 16" Line Stop	2.000	EA	\$ 22,575.00	\$ 45,150.00		\$ -		\$ -		\$ -	
13	F&I 16x8 Tee	1.000	EA	\$ 750.00	\$ 750.00		\$ -		\$ -		\$ -	
14	Directional Bore 16" WM	900.000	LF	\$ 165.00	\$ 148,500.00		\$ -	850.000	\$ 140,250.00	850.000	\$ 140,250.00	94%
<b>FM</b>					\$ -		\$ -		\$ -		\$ -	
1	F&I 6" FM	5.000	LF	\$ 150.00	\$ 750.00		\$ -		\$ -		\$ -	
2	R&R 12" FM		LF	\$ 146.29	\$ -		\$ -		\$ -		\$ -	
3	Lower 12" FM	1,050.000	LF	\$ 146.29	\$ 153,604.50	200.000	\$ 29,258.00		\$ -	200.000	\$ 29,258.00	19%
4	12" Joint Restraints	10.000	EA	\$ 550.00	\$ 5,500.00		\$ -	10.000	\$ 5,500.00	10.000	\$ 5,500.00	100%
5	F&I 6" 45 Bend		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 45 Bend		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
8	F&I 6" Plug Valve		EA	\$ 2,000.00	\$ -		\$ -		\$ -		\$ -	
9	F&I 12" Dual Line Stop Bypass		LF	\$ 75.00	\$ -		\$ -		\$ -		\$ -	
<b>RWM</b>					\$ -		\$ -		\$ -		\$ -	
1	F&I 8" RWM	40.000	LF	\$ 110.00	\$ 4,400.00		\$ -		\$ -		\$ -	
2	R&R 12" RWM	602.000	LF	\$ 125.75	\$ 75,701.50		\$ -		\$ -		\$ -	
3	12" Joint Restraints		EA	\$ 550.00	\$ -		\$ -		\$ -		\$ -	
4	F&I 8" 45 Bend	4.000	EA	\$ 250.00	\$ 1,000.00		\$ -		\$ -		\$ -	
5	F&I 12" 45 Bend	20.000	EA	\$ 400.00	\$ 8,000.00		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 90 Bend	1.000	EA	\$ 400.00	\$ 400.00		\$ -		\$ -		\$ -	
8	F&I 12x8 Tee	1.000	EA	\$ 500.00	\$ 500.00		\$ -		\$ -		\$ -	
9	F&I 12x12 Tee	2.000	EA	\$ 600.00	\$ 1,200.00		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 2,150.00	\$ 2,150.00		\$ -		\$ -		\$ -	
11	F&I 12" GV	1.000	EA	\$ 3,500.00	\$ 3,500.00		\$ -		\$ -		\$ -	

# SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

Address: **PO BOX 121754**

City: **CLERMONT**

Phone: **352.409.6630**

State: **FL**

Zip: **34712**

Fax: **877.532.8247**

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.: **3**

APPLICATION FOR PAYMENT NO. **3**

PERIOD ENDING: **3.31.16**

SUBCONTRACTORS INVOICE #: **2015UI2D3**

12	F&I 12" Cap	1.000	EA	\$ 250.00	\$ 250.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13	Directional Bore 12" RWM	900.000	LF	\$ 140.00	\$ 126,000.00	\$ -	850.000	\$ 119,000.00	850.000	\$ 119,000.00	94%	
<b>DEMO</b>					\$ -	\$ -		\$ -		\$ -		
1	Adjust and Relocate ARV	9.000	EA	\$ 5,750.00	\$ 51,750.00	\$ -	2.000	\$ 11,500.00	2.000	\$ 11,500.00	22%	
2	Adjust Valve Collar	34.000	EA	\$ 350.00	\$ 11,900.00	\$ -		\$ -		\$ -		
3	Relocate Valve	1.000	EA	\$ 6,500.00	\$ 6,500.00	0.500	3,250.00	0.500	3,250.00	1.000	\$ 6,500.00	
4	Remove 30" Steel Casing		LF	\$ 350.00	\$ -	\$ -		\$ -		\$ -		
5	Concrete Cap	20.000	LF	\$ 225.00	\$ 4,500.00	\$ -		\$ -		\$ -		
6	Open Cut and Restore Roadway	924.000	SY	\$ 40.00	\$ 36,960.00	\$ -		\$ -		\$ -		
					\$ -	\$ -		\$ -		\$ -		
					\$ -	\$ -		\$ -		\$ -		
					\$ -	\$ -		\$ -		\$ -		
<b>ORIGINAL CONTRACT TOTALS</b>					<b>\$ 1,706,668.50</b>	<b>\$ 743,874.65</b>		<b>\$ 534,935.50</b>		<b>\$ 1,278,810.15</b>		

Authorized Change Orders						Previous Payments		Pay Request this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	Change Order 1 - Relocate Addit. Valves	3.000	EA	\$ 6,500.00	\$ 19,500.00		\$ -	3.000	\$ 19,500.00	3.000	\$ 19,500.00	100%
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
CHANGE ORDER TOTALS					\$ 19,500.00		\$ -		\$ 19,500.00		\$ 19,500.00	
The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.  <div>Alisa Roehn</div> <div>SUBCONTRACTOR SIGNATURE</div>						Work Performed to Date on Original Contract Amount		\$ 1,278,810.15				
						Work Performed on Change Orders		\$ 19,500.00				
						Materials Stored		\$ -				
						Total Completed & Stored		\$ 1,298,310.15				
						Retainage To Be Withheld		10% - \$ 126,408.40				
						Less Previous Payments / Applications (Less Retain:		- \$ 672,909.80				
						Payment Amount Due This Application		\$ 498,991.95				



# SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.: **4**

Address: **PO BOX 121754**

APPLICATION FOR PAYMENT NO. **4**

City: **CLERMONT**

State: **FL**

Zip: **34712**

PERIOD ENDING: **4.30.16**

Phone: **352.409.6630**

Fax: **877.532.8247**

SUBCONTRACTORS INVOICE #: **2015UI2D4**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	General Conditions	1.000	LS	\$ 195,000.00	\$ 195,000.00	0.950	\$ 185,250.00	0.050	\$ 9,750.00	1.000	\$ 195,000.00	100%
2	Preconstruction Video	1.000	LS	\$ 10,000.00	\$ 10,000.00	1.000	\$ 10,000.00		\$ -	1.000	\$ 10,000.00	100%
3	Project Layout and Utility Locates	1.000	LS	\$ 158,950.00	\$ 158,950.00	0.950	\$ 151,002.50	0.050	\$ 7,947.50	1.000	\$ 158,950.00	100%
4	Utility Maintenance of Traffic	1.000	LS	\$ 35,000.00	\$ 35,000.00	0.800	\$ 28,000.00	0.150	\$ 5,250.00	0.950	\$ 33,250.00	95%
<b>WM</b>							\$ -		\$ -		\$ -	
1	R&R 8" WM	142.000	LF	\$ 75.00	\$ 10,650.00		\$ -		\$ -		\$ -	
2	R&R 16" WM	2,750.000	LF	\$ 142.63	\$ 392,232.50	2,600.000	\$ 370,838.00	150.000	\$ 21,394.50	2,750.000	\$ 392,232.50	100%
3	Lower 16" WM	1,500.000	LF	\$ 105.00	\$ 157,500.00	1,725.349	\$ 181,161.65		\$ -	1,725.349	\$ 181,161.65	115%
4	16" Joint Restraints	28.000	EA	\$ 700.00	\$ 19,600.00	28.000	\$ 19,600.00		\$ -	28.000	\$ 19,600.00	100%
5	F&I 8" 45 Bend	11.000	EA	\$ 420.00	\$ 4,620.00	5.000	\$ 2,100.00	6.000	\$ 2,520.00	11.000	\$ 4,620.00	100%
6	F&I 16" 22 Bend	5.000	EA	\$ 650.00	\$ 3,250.00	5.000	\$ 3,250.00		\$ -	5.000	\$ 3,250.00	100%
7	F&I 16" 45 Bend	24.000	EA	\$ 650.00	\$ 15,600.00	24.000	\$ 15,600.00		\$ -	24.000	\$ 15,600.00	100%
8	F&I 16" 90 Bend	2.000	EA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -	
9	F&I 16" Long Sleeve		EA	\$ 650.00	\$ -		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 1,500.00	\$ 1,500.00		\$ -		\$ -		\$ -	
11	F&I 8" Line Stop	1.000	EA	\$ 12,500.00	\$ 12,500.00		\$ -		\$ -		\$ -	
12	F&I 16" Line Stop	2.000	EA	\$ 22,575.00	\$ 45,150.00		\$ -		\$ -		\$ -	
13	F&I 16x8 Tee	1.000	EA	\$ 750.00	\$ 750.00		\$ -		\$ -		\$ -	
14	Directional Bore 16" WM	900.000	LF	\$ 165.00	\$ 148,500.00	850.000	\$ 140,250.00	50.000	\$ 8,250.00	900.000	\$ 148,500.00	100%
<b>FM</b>							\$ -		\$ -		\$ -	
1	F&I 6" FM	5.000	LF	\$ 150.00	\$ 750.00		\$ -		\$ -		\$ -	
2	R&R 12" FM		LF	\$ 146.29	\$ -		\$ -		\$ -		\$ -	
3	Lower 12" FM	1,050.000	LF	\$ 146.29	\$ 153,604.50	200.000	\$ 29,258.00	80.000	\$ 11,703.20	280.000	\$ 40,961.20	27%
4	12" Joint Restraints	10.000	EA	\$ 550.00	\$ 5,500.00	10.000	\$ 5,500.00		\$ -	10.000	\$ 5,500.00	100%
5	F&I 6" 45 Bend		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 45 Bend		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
8	F&I 6" Plug Valve		EA	\$ 2,000.00	\$ -		\$ -		\$ -		\$ -	
9	F&I 12" Dual Line Stop Bypass		LF	\$ 75.00	\$ -		\$ -		\$ -		\$ -	
<b>RWM</b>							\$ -		\$ -		\$ -	
1	F&I 8" RWM	40.000	LF	\$ 110.00	\$ 4,400.00		\$ -		\$ -		\$ -	
2	R&R 12" RWM	602.000	LF	\$ 125.75	\$ 75,701.50		\$ -		\$ -		\$ -	
3	12" Joint Restraints		EA	\$ 550.00	\$ -		\$ -		\$ -		\$ -	
4	F&I 8" 45 Bend	4.000	EA	\$ 250.00	\$ 1,000.00		\$ -		\$ -		\$ -	
5	F&I 12" 45 Bend	20.000	EA	\$ 400.00	\$ 8,000.00		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 90 Bend	1.000	EA	\$ 400.00	\$ 400.00		\$ -		\$ -		\$ -	
8	F&I 12x8 Tee	1.000	EA	\$ 500.00	\$ 500.00		\$ -		\$ -		\$ -	
9	F&I 12x12 Tee	2.000	EA	\$ 600.00	\$ 1,200.00		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 2,150.00	\$ 2,150.00		\$ -		\$ -		\$ -	
11	F&I 12" GV	1.000	EA	\$ 3,500.00	\$ 3,500.00		\$ -		\$ -		\$ -	

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## SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

Address: **PO BOX 121754**APPLICATION FOR PAYMENT NO. **4**City: **CLERMONT**State: **FL**Zip: **34712**PERIOD ENDING: **4.30.16**Phone: **352.409.6630**Fax: **877.532.8247**SUBCONTRACTORS INVOICE #: **2015UI2D4**

12	F&I 12" Cap	1.000	EA	\$ 250.00	\$ 250.00		\$ -		\$ -		\$ -	
13	Directional Bore 12" RWM	900.000	LF	\$ 140.00	\$ 126,000.00	850.000	\$ 119,000.00	50.000	\$ 7,000.00	900.000	\$ 126,000.00	100%
<b>DEMO</b>					\$ -		\$ -		\$ -		\$ -	
1	Adjust and Relocate ARV	9.000	EA	\$ 5,750.00	\$ 51,750.00	2.000	\$ 11,500.00	1.000	\$ 5,750.00	3.000	\$ 17,250.00	33%
2	Adjust Valve Collar	34.000	EA	\$ 350.00	\$ 11,900.00		\$ -		\$ -		\$ -	
3	Relocate Valve	1.000	EA	\$ 6,500.00	\$ 6,500.00	1.000	\$ 6,500.00		\$ -	1.000	\$ 6,500.00	
4	Remove 30" Steel Casing		LF	\$ 350.00	\$ -		\$ -		\$ -		\$ -	
5	Concrete Cap	20.000	LF	\$ 225.00	\$ 4,500.00		\$ -		\$ -		\$ -	
6	Open Cut and Restore Roadway	924.000	SY	\$ 40.00	\$ 36,960.00		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
<b>ORIGINAL CONTRACT TOTALS</b>					<b>\$ 1,706,668.50</b>		<b>\$ 1,278,810.15</b>		<b>\$ 79,565.20</b>		<b>\$ 1,358,375.35</b>	

Authorized Change Orders						Previous Payments		Pay Request this Period		Total to Date		% Complete	
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total		
1	Change Order 1 - Relocate Addt. Valves	3.000	EA	\$ 6,500.00	\$ 19,500.00	3.000	\$ 19,500.00		\$ -	3.000	\$ 19,500.00	100%	
2	Change Order 2 - Adjust & Relocate Addt ARV	1.000	EA	\$ 5,750.00	\$ 5,750.00		\$ -	1.000	\$ 5,750.00	1.000	\$ 5,750.00	100%	
					\$ -		\$ -		\$ -		\$ -		
					\$ -		\$ -		\$ -		\$ -		
CHANGE ORDER TOTALS					\$ 25,250.00		\$ 19,500.00		\$ 5,750.00		\$ 25,250.00		
The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.  <div>Alicia Roehn</div> <div>SUBCONTRACTOR SIGNATURE</div> <div>4/25/16</div> <div>DATE</div>						Work Performed to Date on Original Contract Amount						\$ 1,358,375.35	
						Work Performed on Change Orders						\$ 25,250.00	
						Materials Stored						\$ -	
						Total Completed & Stored						\$ 1,383,625.35	
						Retainage To Be Withheld 10%						- \$ 134,939.92	
						Less Previous Payments / Applications (Less Retainage for previous draws)						- \$ 1,171,901.75	
Payment Amount Due This Application						\$ 76,783.68							



3043813  
 PO 205835  
 Repl 226072

# SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

Address: **PO BOX 121754**

City: **CLERMONT**

Phone: **352.409.6630**

State: **FL**

Zip:

**34712**

Fax: **877.532.8247**

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

APPLICATION FOR PAYMENT NO.

**5**

PERIOD ENDING:

**5.30.16**

SUBCONTRACTORS INVOICE #:

**2015UI2D5**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	General Conditions	1.000	LS	\$ 195,000.00	\$ 195,000.00	1.000	\$ 195,000.00		\$ -	1.000	\$ 195,000.00	100%
2	Preconstruction Video	1.000	LS	\$ 10,000.00	\$ 10,000.00	1.000	\$ 10,000.00		\$ -	1.000	\$ 10,000.00	100%
3	Project Layout and Utility Locates	1.000	LS	\$ 158,950.00	\$ 158,950.00	1.000	\$ 158,950.00		\$ -	1.000	\$ 158,950.00	100%
4	Utility Maintenance of Traffic	1.000	LS	\$ 35,000.00	\$ 35,000.00	0.950	\$ 33,250.00		\$ -	0.950	\$ 33,250.00	95%
WM					\$ -		\$ -		\$ -		\$ -	
1	R&R 8" WM	142.000	LF	\$ 75.00	\$ 10,650.00		\$ -		\$ -		\$ -	
2	R&R 16" WM	2,750.000	LF	\$ 142.63	\$ 392,232.50	2,750.000	\$ 392,232.50		\$ -	2,750.000	\$ 392,232.50	100%
3	Lower 16" WM	1,500.000	LF	\$ 105.00	\$ 157,500.00	1,725.349	\$ 181,161.65		\$ -	1,725.349	\$ 181,161.65	115%
4	16" Joint Restraints	28.000	EA	\$ 700.00	\$ 19,600.00	28.000	\$ 19,600.00		\$ -	28.000	\$ 19,600.00	100%
5	F&I 8" 45 Bend	11.000	EA	\$ 420.00	\$ 4,620.00	11.000	\$ 4,620.00		\$ -	11.000	\$ 4,620.00	100%
6	F&I 16" 22 Bend	5.000	EA	\$ 650.00	\$ 3,250.00	5.000	\$ 3,250.00		\$ -	5.000	\$ 3,250.00	100%
7	F&I 16" 45 Bend	24.000	EA	\$ 650.00	\$ 15,600.00	24.000	\$ 15,600.00		\$ -	24.000	\$ 15,600.00	100%
8	F&I 16" 90 Bend	2.000	EA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -	
9	F&I 16" Long Sleeve		EA	\$ 650.00	\$ -		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 1,500.00	\$ 1,500.00		\$ -		\$ -		\$ -	
11	F&I 8" Line Stop	1.000	EA	\$ 12,500.00	\$ 12,500.00		\$ -		\$ -		\$ -	
12	F&I 16" Line Stop	2.000	EA	\$ 22,575.00	\$ 45,150.00		\$ -		\$ -		\$ -	
13	F&I 16x3 Tee	1.000	EA	\$ 750.00	\$ 750.00		\$ -		\$ -		\$ -	
14	Directional Bore 16" WM	900.000	LF	\$ 165.00	\$ 148,500.00	900.000	\$ 148,500.00		\$ -	900.000	\$ 148,500.00	100%
FM					\$ -		\$ -		\$ -		\$ -	
1	F&I 6" FM	5.000	LF	\$ 150.00	\$ 750.00		\$ -		\$ -		\$ -	
2	R&R 12" FM		LF	\$ 146.29	\$ -		\$ -		\$ -		\$ -	
3	Lower 12" FM	1,050.000	LF	\$ 146.29	\$ 153,604.50	280.000	\$ 40,961.20		\$ -	280.000	\$ 40,961.20	27%
4	12" Joint Restraints	10.000	EA	\$ 550.00	\$ 5,500.00	10.000	\$ 5,500.00		\$ -	10.000	\$ 5,500.00	100%
5	F&I 6" 45 Bend		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 45 Bend		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
8	F&I 6" Plug Valve		EA	\$ 2,000.00	\$ -		\$ -		\$ -		\$ -	
9	F&I 12" Dual Line Stop Bypass		LF	\$ 75.00	\$ -		\$ -		\$ -		\$ -	
RWM					\$ -		\$ -		\$ -		\$ -	
1	F&I 8" RWM	40.000	LF	\$ 110.00	\$ 4,400.00		\$ -		\$ -		\$ -	
2	R&R 12" RWM	602.000	LF	\$ 125.75	\$ 75,701.50		\$ -	500.000	\$ 62,875.00	500.000	\$ 62,875.00	83%
3	12" Joint Restraints		EA	\$ 550.00	\$ -		\$ -		\$ -		\$ -	
4	F&I 8" 45 Bend	4.000	EA	\$ 250.00	\$ 1,000.00		\$ -		\$ -		\$ -	
5	F&I 12" 45 Bend	20.000	EA	\$ 400.00	\$ 8,000.00		\$ -	10.000	\$ 4,000.00	10.000	\$ 4,000.00	50%
6	F&I 12" Long Sleeve		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 90 Bend	1.000	EA	\$ 400.00	\$ 400.00		\$ -		\$ -		\$ -	
8	F&I 12x8 Tee	1.000	EA	\$ 500.00	\$ 500.00		\$ -		\$ -		\$ -	
9	F&I 12x12 Tee	2.000	EA	\$ 600.00	\$ 1,200.00		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 2,150.00	\$ 2,150.00		\$ -		\$ -		\$ -	
11	F&I 12" GV	1.000	EA	\$ 3,500.00	\$ 3,500.00		\$ -		\$ -		\$ -	



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## SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

Address: **PO BOX 121754**APPLICATION FOR PAYMENT NO. **5**City: **CLERMONT**State: **FL**

Zip:

**34712**PERIOD ENDING: **5.30.16**Phone: **352.409.6630**Fax: **877.532.8247**SUBCONTRACTORS INVOICE #: **2015UI2D5**

12	F&I 12" Cap	1.000	EA	\$ 250.00	\$ 250.00		\$ -		\$ -		\$ -	
13	Directional Bore 12" RWM	900.000	LF	\$ 140.00	\$ 126,000.00	900.000	\$ 126,000.00		\$ -	900.000	\$ 126,000.00	100%
DEMO					\$ -		\$ -		\$ -		\$ -	
1	Adjust and Relocate ARV	9.000	EA	\$ 5,750.00	\$ 51,750.00	3.000	\$ 17,250.00		\$ -	3.000	\$ 17,250.00	33%
2	Adjust Valve Collar	34.000	EA	\$ 350.00	\$ 11,900.00		\$ -		\$ -		\$ -	
3	Relocate Valve	1.000	EA	\$ 6,500.00	\$ 6,500.00	1.000	\$ 6,500.00		\$ -	1.000	\$ 6,500.00	100%
4	Remove 30" Steel Casing		LF	\$ 350.00	\$ -		\$ -		\$ -		\$ -	
5	Concrete Cap	20.000	LF	\$ 225.00	\$ 4,500.00		\$ -		\$ -		\$ -	
6	Open Cut and Restore Roadway	924.000	SY	\$ 40.00	\$ 36,960.00		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
ORIGINAL CONTRACT TOTALS					\$ 1,706,668.50		\$ 1,358,375.35		\$ 66,875.00		\$ 1,425,250.35	

Authorized Change Orders						Previous Payments		Pay Request this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	Change Order 1 - Relocate Addl. Valves	3.000	EA	\$ 6,500.00	\$ 19,500.00	3.000	\$ 19,500.00		\$ -	3.000	\$ 19,500.00	100%
2	Change Order 2 - Adjust & Relocate Addl ARV	1.000	EA	\$ 5,750.00	\$ 5,750.00	1.000	\$ 5,750.00		\$ -	1.000	\$ 5,750.00	100%
3	Change Order 3 - 12RWM Relocate, 12 GV R&R, ARV Install	1.000	LS	\$ 34,000.00	\$ 34,000.00		\$ -	0.400	\$ 13,600.00	0.400	\$ 13,600.00	40%
					\$ -		\$ -		\$ -		\$ -	
CHANGE ORDER TOTALS					\$ 59,250.00		\$ 25,250.00		\$ 13,600.00		\$ 38,850.00	
The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.   												

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PD 205835  
Recpt. 233072

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## SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

Address: **PO BOX 121754**

APPLICATION FOR PAYMENT NO. **6**

City: **CLERMONT**

State: **FL**

Zip:

**34712**

PERIOD ENDING: **8.26.16**

Phone: **352.409.6630**

Fax: **877.532.8247**

SUBCONTRACTORS INVOICE #: **2015UID6**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	General Conditions	1.000	LS	\$ 195,000.00	\$ 195,000.00	1.000	\$ 195,000.00		\$ -	1.000	\$ 195,000.00	100%
2	Preconstruction Video	1.000	LS	\$ 10,000.00	\$ 10,000.00	1.000	\$ 10,000.00		\$ -	1.000	\$ 10,000.00	100%
3	Project Layout and Utility Locates	1.000	LS	\$ 158,950.00	\$ 158,950.00	1.000	\$ 158,950.00		\$ -	1.000	\$ 158,950.00	100%
4	Utility Maintenance of Traffic	1.000	LS	\$ 35,000.00	\$ 35,000.00	0.950	\$ 33,250.00	0.050	\$ 1,750.00	1.000	\$ 35,000.00	100%
<b>WM</b>												
1	R&R 8" WM	142.000	LF	\$ 75.00	\$ 10,650.00		\$ -		\$ -		\$ -	
2	R&R 16" WM	2,750.000	LF	\$ 142.63	\$ 392,232.50	2,750.000	\$ 392,232.50		\$ -	2,750.000	\$ 392,232.50	100%
3	Lower 16" WM	1,500.000	LF	\$ 105.00	\$ 157,500.00	1,725.349	\$ 181,161.65		\$ -	1,725.349	\$ 181,161.65	115%
4	16" Joint Restraints	28.000	EA	\$ 700.00	\$ 19,600.00	28.000	\$ 19,600.00		\$ -	28.000	\$ 19,600.00	100%
5	F&I 8" 45 Bend	11.000	EA	\$ 420.00	\$ 4,620.00	11.000	\$ 4,620.00		\$ -	11.000	\$ 4,620.00	100%
6	F&I 16" 22 Bend	5.000	EA	\$ 650.00	\$ 3,250.00	5.000	\$ 3,250.00		\$ -	5.000	\$ 3,250.00	100%
7	F&I 16" 45 Bend	24.000	EA	\$ 650.00	\$ 15,600.00	24.000	\$ 15,600.00		\$ -	24.000	\$ 15,600.00	100%
8	F&I 16" 90 Bend	2.000	EA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -	
9	F&I 16" Long Sleeve		EA	\$ 650.00	\$ -		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 1,500.00	\$ 1,500.00		\$ -		\$ -		\$ -	
11	F&I 8" Line Stop	1.000	EA	\$ 12,500.00	\$ 12,500.00		\$ -		\$ -		\$ -	
12	F&I 16" Line Stop	2.000	EA	\$ 22,575.00	\$ 45,150.00		\$ -		\$ -		\$ -	
13	F&I 16x8 Tee	1.000	EA	\$ 750.00	\$ 750.00		\$ -		\$ -		\$ -	
14	Directional Bore 16" WM	900.000	LF	\$ 165.00	\$ 148,500.00	900.000	\$ 148,500.00		\$ -	900.000	\$ 148,500.00	100%
<b>FM</b>												
1	F&I 6" FM	5.000	LF	\$ 150.00	\$ 750.00		\$ -	5.000	\$ 750.00	5.000	\$ 750.00	100%
2	R&R 12" FM		LF	\$ 146.29	\$ -		\$ -		\$ -		\$ -	
3	Lower 12" FM	1,050.000	LF	\$ 146.29	\$ 153,604.50	280.000	\$ 40,961.20	770.000	\$ 112,643.30	1,050.000	\$ 153,604.50	100%
4	12" Joint Restraints	10.000	EA	\$ 550.00	\$ 5,500.00	10.000	\$ 5,500.00		\$ -	10.000	\$ 5,500.00	100%
5	F&I 6" 45 Bend		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 45 Bend		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
8	F&I 6" Plug Valve		EA	\$ 2,000.00	\$ -		\$ -		\$ -		\$ -	
9	F&I 12" Dual Line Stop Bypass		LF	\$ 75.00	\$ -		\$ -		\$ -		\$ -	
<b>RWM</b>												
1	F&I 8" RWM	40.000	LF	\$ 110.00	\$ 4,400.00		\$ -	40.000	\$ 4,400.00	40.000	\$ 4,400.00	100%
2	R&R 12" RWM	602.000	LF	\$ 125.75	\$ 75,701.50	500.000	\$ 62,875.00	102.000	\$ 12,826.50	602.000	\$ 75,701.50	100%
3	12" Joint Restraints		EA	\$ 550.00	\$ -		\$ -		\$ -		\$ -	
4	F&I 8" 45 Bend	4.000	EA	\$ 250.00	\$ 1,000.00		\$ -	4.000	\$ 1,000.00	4.000	\$ 1,000.00	100%
5	F&I 12" 45 Bend	20.000	EA	\$ 400.00	\$ 8,000.00	10.000	\$ 4,000.00	10.000	\$ 4,000.00	20.000	\$ 8,000.00	100%
6	F&I 12" Long Sleeve		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 90 Bend	1.000	EA	\$ 400.00	\$ 400.00		\$ -	1.000	\$ 400.00	1.000	\$ 400.00	100%
8	F&I 12x8 Tee	1.000	EA	\$ 500.00	\$ 500.00		\$ -	1.000	\$ 500.00	1.000	\$ 500.00	100%
9	F&I 12x12 Tee	2.000	EA	\$ 600.00	\$ 1,200.00		\$ -	2.000	\$ 1,200.00	2.000	\$ 1,200.00	100%
10	F&I 8" GV	1.000	EA	\$ 2,150.00	\$ 2,150.00		\$ -	1.000	\$ 2,150.00	1.000	\$ 2,150.00	100%
11	F&I 12" GV	1.000	EA	\$ 3,500.00	\$ 3,500.00		\$ -	1.000	\$ 3,500.00	1.000	\$ 3,500.00	100%



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## SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**Address: **PO BOX 121754**City: **CLERMONT**State: **FL**Zip: **34712**Phone: **352.409.6630**Fax: **877.532.8247**PROJECT: **US 27 Utility Relocation Phase 3 LUSI**JOB NO.: **6**APPLICATION FOR PAYMENT NO. **6**PERIOD ENDING: **8.26.16**SUBCONTRACTORS INVOICE #: **2015UID6**

12	F&I 12" Cap	1.000	EA	\$ 250.00	\$ 250.00	\$ -	1.000	\$ 250.00	1.000	\$ 250.00	100%
13	Directional Bore 12" RWM	900.000	LF	\$ 140.00	\$ 126,000.00	900.000	\$ 126,000.00	\$ -	900.000	\$ 126,000.00	100%
DEMO				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1	Adjust and Relocate ARV	9.000	EA	\$ 5,750.00	\$ 51,750.00	3.000	\$ 17,250.00	\$ -	3.000	\$ 17,250.00	33%
2	Adjust Valve Collar	34.000	EA	\$ 350.00	\$ 11,900.00		\$ -	\$ -		\$ -	
3	Relocate Valve	1.000	EA	\$ 6,500.00	\$ 6,500.00	1.000	\$ 6,500.00	\$ -	1.000	\$ 6,500.00	100%
4	Remove 30" Steel Casing		LF	\$ 350.00	\$ -		\$ -	\$ -		\$ -	
5	Concrete Cap	20.000	LF	\$ 225.00	\$ 4,500.00		\$ -	20.000	\$ 4,500.00	20.000	\$ 4,500.00
6	Open Cut and Restore Roadway	924.000	SY	\$ 40.00	\$ 36,960.00		\$ -	924.000	\$ 36,960.00	924.000	\$ 36,960.00
				\$ -	\$ -		\$ -	\$ -		\$ -	
				\$ -	\$ -		\$ -	\$ -		\$ -	
				\$ -	\$ -		\$ -	\$ -		\$ -	
ORIGINAL CONTRACT TOTALS				\$ 1,706,668.50		\$ 1,425,250.35		\$ 186,829.80		\$ 1,612,080.15	

Authorized Change Orders						Previous Payments		Pay Request this Period		Total to Date		% Complete		
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total			
1	Change Order 1 - Relocate Addit. Valves	3.000	EA	\$ 6,500.00	\$ 19,500.00	3.000	\$ 19,500.00		\$ -	3.000	\$ 19,500.00	100%		
2	Change Order 2 - Adjust & Relocate Addit ARV	1.000	EA	\$ 5,750.00	\$ 5,750.00	1.000	\$ 5,750.00		\$ -	1.000	\$ 5,750.00	100%		
3	Change Order 3 - 12RWM Relocate, 12 GV R&R, ARV Install	1.000	LS	\$ 34,000.00	\$ 34,000.00	0.400	\$ 13,600.00	0.600	\$ 20,400.00	1.000	\$ 34,000.00	100%		
					\$ -		\$ -		\$ -		\$ -			
CHANGE ORDER TOTALS					\$ 59,250.00		\$ 38,850.00		\$ 20,400.00		\$ 59,250.00			
<div>The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.</div> <div><div>Alvin Roshin</div><div>8.26.16</div><div>SUBCONTRACTOR SIGNATUREDATE</div></div>						Work Performed to Date on Original Contract Amount						\$ 1,612,080.15		
						Work Performed on Change Orders						\$ 59,250.00		
						Materials Stored						\$ -		
						Total Completed & Stored						\$ 1,671,330.15		
						Retainage To Be Withheld is reduced to \$20,000 per BG						\$ 20,000.00	-	\$ 20,000.00
						Less Previous Payments / Applications (Less Retainage for previous draws)						-	\$ 1,444,100.35	
						Payment Amount Due This Application						\$ 207,229.80		

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PO 205835  
Rec'd 226070

# SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**

PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

Address: **PO BOX 121754**

APPLICATION FOR PAYMENT NO.

Partial Retainage

City: **CLERMONT**

State: **FL**

Zip: **34712**

PERIOD ENDING:

**5.30.16**

Phone: **352.409.6630**

Fax: **877.532.8247**

SUBCONTRACTORS INVOICE #:

**2015UI2PRET**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	General Conditions	1.000	LS	\$ 195,000.00	\$ 195,000.00	1.000	\$ 195,000.00		\$ -	1.000	\$ 195,000.00	100%
2	Preconstruction Video	1.000	LS	\$ 10,000.00	\$ 10,000.00	1.000	\$ 10,000.00		\$ -	1.000	\$ 10,000.00	100%
3	Project Layout and Utility Locates	1.000	LS	\$ 158,950.00	\$ 158,950.00	1.000	\$ 158,950.00		\$ -	1.000	\$ 158,950.00	100%
4	Utility Maintenance of Traffic	1.000	LS	\$ 35,000.00	\$ 35,000.00	0.950	\$ 33,250.00		\$ -	0.950	\$ 33,250.00	95%
<b>WM</b>					\$ -		\$ -		\$ -		\$ -	
1	R&R 8" WM	142.000	LF	\$ 75.00	\$ 10,650.00		\$ -		\$ -		\$ -	
2	R&R 16" WM	2,750.000	LF	\$ 142.63	\$ 392,232.50	2,750.000	\$ 392,232.50		\$ -	2,750.000	\$ 392,232.50	100%
3	Lower 16" WM	1,500.000	LF	\$ 105.00	\$ 157,500.00	1,725.349	\$ 181,161.65		\$ -	1,725.349	\$ 181,161.65	115%
4	16" Joint Restraints	28.000	EA	\$ 700.00	\$ 19,600.00	28.000	\$ 19,600.00		\$ -	28.000	\$ 19,600.00	100%
5	F&I 8" 45 Bend	11.000	EA	\$ 420.00	\$ 4,620.00	11.000	\$ 4,620.00		\$ -	11.000	\$ 4,620.00	100%
6	F&I 16" 22 Bend	5.000	EA	\$ 650.00	\$ 3,250.00	5.000	\$ 3,250.00		\$ -	5.000	\$ 3,250.00	100%
7	F&I 16" 45 Bend	24.000	EA	\$ 650.00	\$ 15,600.00	24.000	\$ 15,600.00		\$ -	24.000	\$ 15,600.00	100%
8	F&I 16" 90 Bend	2.000	EA	\$ 650.00	\$ 1,300.00		\$ -		\$ -		\$ -	
9	F&I 16" Long Sleeve		EA	\$ 650.00	\$ -		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 1,500.00	\$ 1,500.00		\$ -		\$ -		\$ -	
11	F&I 8" Line Stop	1.000	EA	\$ 12,500.00	\$ 12,500.00		\$ -		\$ -		\$ -	
12	F&I 16" Line Stop	2.000	EA	\$ 22,575.00	\$ 45,150.00		\$ -		\$ -		\$ -	
13	F&I 16x8 Tee	1.000	EA	\$ 750.00	\$ 750.00		\$ -		\$ -		\$ -	
14	Directional Bore 16" WM	900.000	LF	\$ 165.00	\$ 148,500.00	900.000	\$ 148,500.00		\$ -	900.000	\$ 148,500.00	100%
<b>FM</b>					\$ -		\$ -		\$ -		\$ -	
1	F&I 6" FM	5.000	LF	\$ 150.00	\$ 750.00		\$ -		\$ -		\$ -	
2	R&R 12" FM		LF	\$ 146.29	\$ -		\$ -		\$ -		\$ -	
3	Lower 12" FM	1,050.000	LF	\$ 146.29	\$ 153,604.50	280.000	\$ 40,961.20		\$ -	280.000	\$ 40,961.20	27%
4	12" Joint Restraints	10.000	EA	\$ 550.00	\$ 5,500.00	10.000	\$ 5,500.00		\$ -	10.000	\$ 5,500.00	100%
5	F&I 6" 45 Bend		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
6	F&I 12" Long Sleeve		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 45 Bend		EA	\$ 700.00	\$ -		\$ -		\$ -		\$ -	
8	F&I 6" Plug Valve		EA	\$ 2,000.00	\$ -		\$ -		\$ -		\$ -	
9	F&I 12" Dual Line Stop Bypass		LF	\$ 75.00	\$ -		\$ -		\$ -		\$ -	
<b>RWM</b>					\$ -		\$ -		\$ -		\$ -	
1	F&I 8" RWM	40.000	LF	\$ 110.00	\$ 4,400.00		\$ -		\$ -		\$ -	
2	R&R 12" RWM	602.000	LF	\$ 125.75	\$ 75,701.50	500.000	\$ 62,875.00		\$ -	500.000	\$ 62,875.00	83%
3	12" Joint Restraints		EA	\$ 550.00	\$ -		\$ -		\$ -		\$ -	
4	F&I 8" 45 Bend	4.000	EA	\$ 250.00	\$ 1,000.00		\$ -		\$ -		\$ -	
5	F&I 12" 45 Bend	20.000	EA	\$ 400.00	\$ 8,000.00	10.000	\$ 4,000.00		\$ -	10.000	\$ 4,000.00	50%
6	F&I 12" Long Sleeve		EA	\$ 400.00	\$ -		\$ -		\$ -		\$ -	
7	F&I 12" 90 Bend	1.000	EA	\$ 400.00	\$ 400.00		\$ -		\$ -		\$ -	
8	F&I 12x8 Tee	1.000	EA	\$ 500.00	\$ 500.00		\$ -		\$ -		\$ -	
9	F&I 12x12 Tee	2.000	EA	\$ 600.00	\$ 1,200.00		\$ -		\$ -		\$ -	
10	F&I 8" GV	1.000	EA	\$ 2,150.00	\$ 2,150.00		\$ -		\$ -		\$ -	
11	F&I 12" GV	1.000	EA	\$ 3,500.00	\$ 3,500.00		\$ -		\$ -		\$ -	



+

## SUBCONTRACTOR APPLICATION FOR PAYMENT

Company: **TRAVERSE GROUP, INC**PROJECT: **US 27 Utility Relocation Phase 3 LUSI**

JOB NO.:

Address: **PO BOX 121754**

APPLICATION FOR PAYMENT NO.

Partial Retainage

City: **CLERMONT**State: **FL**

Zip:

**34712**

PERIOD ENDING:

**5.30.16**Phone: **352.409.6630**Fax: **877.532.8247**

SUBCONTRACTORS INVOICE #:

**2015UI2PRET**

12	FR 12" Cap	1.000	EA	\$ 250.00	\$ 250.00		\$ -	\$ -	\$ -	\$ -	
13	Directional Bore 12" RWM	900.000	LF	\$ 140.00	\$ 126,000.00	900.000	\$ 126,000.00	\$ -	\$ -	900.000	\$ 126,000.00 100%
DEMO					\$ -		\$ -	\$ -	\$ -		
1	Adjust and Relocate ARV	9.000	EA	\$ 5,750.00	\$ 51,750.00	3.000	\$ 17,250.00	\$ -	\$ -	3.000	\$ 17,250.00 33%
2	Adjust Valve Collar	34.000	EA	\$ 350.00	\$ 11,900.00		\$ -	\$ -	\$ -		
3	Relocate Valve	1.000	EA	\$ 6,500.00	\$ 6,500.00	1.000	\$ 6,500.00	\$ -	\$ -	1.000	\$ 6,500.00 100%
4	Remove 30" Steel Casing		LF	\$ 350.00	\$ -		\$ -	\$ -	\$ -		
5	Concrete Cap	20.000	LF	\$ 225.00	\$ 4,500.00		\$ -	\$ -	\$ -		
6	Open Cut and Restore Roadway	924.000	SY	\$ 40.00	\$ 36,960.00		\$ -	\$ -	\$ -		
					\$ -		\$ -	\$ -	\$ -		
					\$ -		\$ -	\$ -	\$ -		
					\$ -		\$ -	\$ -	\$ -		
ORIGINAL CONTRACT TOTALS					\$ 1,706,668.50		\$ 1,425,250.35	\$ -	\$ -	\$ 1,425,250.35	

Authorized Change Orders						Previous Payments		Pay Request this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	Change Order 1 - Relocate Addt. Valves	3.000	EA	\$ 6,500.00	\$ 19,500.00	3.000	\$ 19,500.00		\$ -	3.000	\$ 19,500.00	100%
2	Change Order 2 - Adjust & Relocate Addt ARV	1.000	EA	\$ 5,750.00	\$ 5,750.00	1.000	\$ 5,750.00		\$ -	1.000	\$ 5,750.00	100%
3	Change Order 3 - 12RWM Relocate, 12 GV R&R, ARV Install	1.000	LS	\$ 34,000.00	\$ 34,000.00	0.400	\$ 13,600.00		\$ -	0.400	\$ 13,600.00	40%
					\$ -		\$ -		\$ -		\$ -	
CHANGE ORDER TOTALS					\$ 59,250.00		\$ 38,850.00		\$ -		\$ 38,850.00	

The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.

Drew Roehn

SUBCONTRACTOR SIGNATURE

5/30/16

DATE

Work Performed to Date on Original Contract Amount

\$ 1,425,250.35

Work Performed on Change Orders

\$ 38,850.00

Materials Stored

\$ -

Total Completed &amp; Stored

\$ 1,464,100.35

Retainage To Be Withheld is

reduced to \$20,000 per BG \$ 20,000.00

- \$ 20,000.00

Less Previous Payments / Applications (Less

Retainage for previous draws)

- \$ 1,321,112.93

Previous Retainage held Less \$20,000

\$ 122,987.42

Payment Amount Due This Application

\$ 122,987.42



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-11**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<input type="checkbox"/> New Project		<b>Assigned Project #</b>	
<b>Requested by:</b>	Bryan K. Gongre <i>Project Manager / Area Manager</i>			<b>Date:</b>	8/16/2016
<b>Project Name:</b>	Church Avenue FM Relocations				
<b>Company:</b>	246	Utilities Inc of Longwood			
<b>Business Unit:</b>	246100	Utilities Inc of Longwood			
<b>Project Owner:</b>	Bryan K. Gongre			<b>BU Type:</b>	SP
<b>Project Manager:</b>	Bryan K. Gongre			<b>Budget Owner / RVP:</b>	John Hoy 03
<b>Start Date:</b>	8/29/2016	Q3 2016	<b>Region:</b> Florida 04		
<b>Estimated End Date:</b>	9/30/2016	Q3 2016	<b>State:</b> FL		
<b>Project Type:</b>	EH&S Compliance				
<b>Will project replace/retire any assets:</b>	Yes				
<b>Previously Requested:</b>					
<b>This Request:</b>	\$193,880				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	\$193,880				
<b>Description:</b>					
Remove and relocate 1,885 LF of 6" force main and 415 LF of 4" force main on Church Avenue that is in conflict with the City of Longwood's stormwater improvements.					
<b>Timeline Considerations:</b>					
Our facilities must be relocated prior to the City's contractor performing the stormwater improvements. The project is to be awarded by the City to its selected contractor soon, perhaps as early as the end of September 2016. The replacement pipe must be installed and in service before the city's contractor begins his work.					
<b>Inter-dependant Project</b>	<b>Project Number:</b>	<b>Project Name</b>		(If applicable)	
Have engineering evaluations been performed?	Yes	<b>Engineering project number</b>	NA	(If applicable)	

**Justification and Benefits:**

Our existing force main is located within the City of Longwood's right-of-way, and as such, must be relocated under the terms and conditions of the existing right-of-way permit. The existing PVC force main must be removed after the new HDPE force main is placed in service; it cannot be abandoned in place. The existing pipe will be removed by the City's contractor during the City's stormwater improvements project.

**Risk Evaluation**

The existing force main is in direct conflict with the city's new stormwater pipe. This project will relocate the force main away from the stormwater excavation so that the FM is not damaged during construction and thus avoid a sanitary sewer spill.

**Alternatives Considered:**

The existing force mains to be removed and replaced as part of this project is located within the city's right-of-way and subject to the conditions of the city's permit conditions. Refusal to relocate and remove the pipe would cause the city to issue a Notice to Vacate the right-of-way. Directional drilling is the most feasible approach to construct this project as the right-of-way is narrow and congested.

**Technical Review Summary:**

Project was reviewed with CPRT on 8/18/2016. No changes were suggested.



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	193,880				
Project Spend in Current Plan	193,880				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	193,880	193,880	193,880	193,880	193,880

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--	--

### Financial Justification

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(13.41)	(13.41)
1,726	1,726

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(4,847)	(9,694)	(9,694)	(9,694)	(9,694)
Under-recovery on capital B/(W)	(3,544)	(13,450)	(12,723)	(11,996)	(11,269)
Net EBIT Impact B/(W)	(8,391)	(23,144)	(22,417)	(21,690)	(20,963)

### Timing and Supporting Information on Rate Recovery

This is a pro forma project identified in the 2016 rate consolidation filing.

### Regulatory Plan Implications

### Assumptions





## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Trisure Corporation	\$144,770	Yes
2	Traverse Group	\$168,505	No
3	CFT	\$169,450	No

### Component:

### Amount

Value Bid Elements

144,770.00

should match selected bid(s) above

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Kimley Horn - Design/Permitting

24,000.00

CFE - Pipe Removal

25,110.00

Total Project Budget

193,880.00

should match Total Budget on General Information

Object Account(s) to which project will be closed:

1345

Sewer Force Main/Srvc Lines

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

Most of the 4" and all of the 6" FM was installed in 1972 by the developer of Longwood Groves s/d, formerly known as Lake Searcy Shores. Therefore, it is about 44 years old and developer contributed. The remaining 4" FM was also installed in 1972 by the developer of the Sandalwood subdivision.



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/19/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns well with the utility's asset management plan and meets all technical requirements.

### Technical Peer Review

Review Sponsored by Patrick Flynn Date Held 8/18/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

No suggestions were received. Approve as reviewed.

### FP&A Review

Review Completed by John Hoy Date: 8/23/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/19/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/24/2016 ☒

President: John P. Hoy Date: 8/25/2016 ☒

### Approval or Re-Direction Comments

None.

# Kimley»Horn

April 4, 2016

Bryan Gongre  
Utilities Inc., of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

Re: Church Ave. Utility Relocations  
Longwood Service Area

Dear Bryan:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc., of Florida ("Client") for providing services related to the force main relocations necessary along Church Avenue associated with the City of Longwood's proposed street improvements.

## Project Understanding

It is our understanding that the design of the roadway and drainage improvements is complete. This completed design with the Utility's field locates will be used as the basis for the design of the proposed force main relocations. The force main is in apparent conflict for approximately 1,600 – 1,800 linear feet of the route. This force main needs to be relocated to allow the continuous operation of the sanitary sewer system and to allow the City's roadway improvement project to be completed.

## Scope of Services

Kimley-Horn will provide the services specifically set forth below.

### Task 1 – Force Main Relocation Design.

This task will use the roadway improvement plans as provided by CPWG as the basis for the force main relocations. The CPWG plans already have a survey and the proposed roadway and drainage improvements completed. Six utility adjustment sheets will be prepared to directly coordinate with the prepared sheets which show the conflicts with the proposed drainage improvements. The plans will be prepared in plan and profile. Additional detail sheets will include the Utility's standard construction details and notes.

Technical specifications and bidding documents will be prepared. A private bid will be solicited from at least three contractors including the roadway contractor selected by the City of Longwood for the roadway portion of the project. Bid documents will be electronically distributed to bidders. Any questions during the bidding period will be addressed as needed. Bids will be received electronically, reviewed, and tabulated for consideration.

### Task 2 – Permitting.

FDEP permitting is not anticipated for this project since the project is a relocation along the same route. However, a permit determination will be submitted to FDEP to confirm. A right of way utilization permit will likely be required by the City. Since this work is associated with a City project we do not anticipate

any problems.

#### Task 3 – Construction Services.

This task will include any shop drawing review, responses to contractor questions, inspection of progress (as requested), review of final testing and clearance, and record drawing preparation.

#### Services Not Included

Any other services, including but not limited to the following, are not included in this Agreement:

- Surveying
- Geotechnical
- Lift Station Analysis

#### Additional Services

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates.

#### Information Provided By Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives.

#### Fee and Expenses

Kimley-Horn will perform the services in Tasks 1 - 3 for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Client.

Task 1	Force Main Relocation Design	\$19,000
Task 2	Permitting	\$1,500
Task 3	Construction Services	\$3,500
Total Lump Sum Fee		\$24,000

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

#### Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Utilities Inc., of Florida.

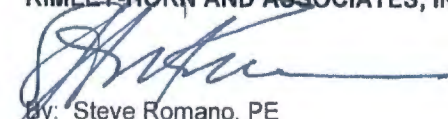
Kimley-Horn, in an effort to expedite invoices and reduce paper waste, submits invoices via email in an Adobe PDF format. We can also provide a paper copy via regular mail if requested. Please include the invoice number and Kimley-Horn project number with all payments.

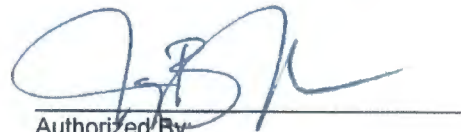


If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services only after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for ninety (90) days after the date of this letter.

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

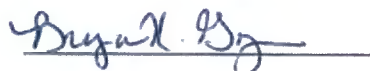
Very truly yours,  
KIMLEY-HORN AND ASSOCIATES, INC.

  
By: Steve Romano, PE  
Sr. Project Manager

  
Authorized By:  
Title: Sr V.P.

AUTHORIZED BY:

UTILITIES INC., OF FLORIDA



4/11/16  
Date

Attachment – Standard Provisions

KIMLEY-HORN AND ASSOCIATES, INC.

STANDARD PROVISIONS

(1) **Consultant's Scope of Services and Additional Services.** The Consultant's undertaking to perform professional services extends only to the services specifically described in this Agreement. However, if requested by the Client and agreed to by the Consultant, the Consultant will perform Additional Services, which shall be governed by these provisions. Unless otherwise agreed to in writing, the Client shall pay the Consultant for any Additional Services an amount based upon the Consultant's then-current hourly rates plus an amount to cover certain direct expenses including telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Other direct expenses will be billed at 1.15 times cost.

(2) **Client's Responsibilities.** In addition to other responsibilities described herein or imposed by law, the Client shall:

(a) Designate in writing a person to act as its representative with respect to this Agreement, such person having complete authority to transmit instructions, receive information, and make or interpret the Client's decisions.

(b) Provide all information and criteria as to the Client's requirements, objectives, and expectations for the project including all numerical criteria that are to be met and all standards of development, design, or construction.

(c) Provide to the Consultant all previous studies, plans, or other documents pertaining to the project and all new data reasonably necessary in the Consultant's opinion, such as site survey and engineering data, environmental impact assessments or statements, upon all of which the Consultant may rely.

(d) Arrange for access to the site and other private or public property as required for the Consultant to provide its services.

(e) Review all documents or oral reports presented by the Consultant and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of the Consultant.

(f) Furnish approvals and permits from governmental authorities having jurisdiction over the project and approvals and consents from other parties as may be necessary for completion of the Consultant's services.

(g) Cause to be provided such independent accounting, legal, insurance, cost estimating and overall feasibility services as the Client may require.

(h) Give prompt written notice to the Consultant whenever the Client becomes aware of any development that affects the scope, timing, or payment of the Consultant's services or any defect or noncompliance in any aspect of the project.

(i) Bear all costs incidental to the responsibilities of the Client.

(3) **Period of Services.** Unless otherwise stated herein, the Consultant will begin work timely after receipt of a properly executed copy of this Agreement and any required retainer amount. This Agreement is made in anticipation of conditions permitting continuous and orderly progress through completion of the services. Times for performance shall be extended as necessary for delays or suspensions due to circumstances that the Consultant does not control. If such delay or suspension extends for more than six months (cumulatively), Consultant's compensation shall be renegotiated.

(4) **Method of Payment.** Compensation shall be paid to the Consultant in accordance with the following provisions:

(a) Invoices will be submitted periodically for services performed and expenses incurred. Payment of each invoice will be due within 25 days of receipt. The Client shall also pay any applicable sales tax. All retainers will be held by the Consultant for the duration of the project and applied against the final invoice. Interest will be added to accounts not paid within 25 days at the maximum rate allowed by law. If the Client fails to make any payment due to the Consultant under this or any other agreement within 30 days after the Consultant's transmittal of its invoice, the Consultant may, after giving notice to the Client, suspend services and withhold deliverables until all amounts due are paid in full and may commence proceedings, including filing liens, to secure its right to payment under this Agreement.

(b) If the Client relies on payment or proceeds from a third party to pay Consultant and Client does not pay Consultant's invoice within 60 days of receipt, Consultant may communicate directly with such third party to secure payment.

(c) If the Client objects to an invoice, it must advise the Consultant in writing giving its reasons within 14 days of receipt of the invoice or the Client's objections will be waived, and the invoice shall conclusively be deemed due and owing. If the Client objects to only a portion of the invoice, payment for all other portions remains due within 25 days of receipt.

(d) The Client agrees that the payment to the Consultant is not subject to any contingency or condition. The Consultant may negotiate payment of any check tendered by the Client, even if the words "in full satisfaction" or words intended to have similar effect appear on the check without such negotiation being an accord and satisfaction of any disputed debt and without prejudicing any right of the Consultant to collect additional amounts from the Client.

(5) **Use of Documents.** All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from



all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The Consultant's electronic files and source code developed in the development of application code remain the property of the Consultant and shall be provided to the Client only if expressly provided for in this Agreement. Any electronic files not containing an electronic seal are provided only for the convenience of the Client, and use of them is at the Client's sole risk. In the case of any defects in the electronic files or any discrepancies between them and the hardcopy of the documents prepared by the Consultant, the hardcopy shall govern. Because data stored in electronic media format can deteriorate or be modified without the Consultant's authorization, the Client has 60 days to perform acceptance tests, after which it shall be deemed to have accepted the data.

(6) **Opinions of Cost.** Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the Client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. Consultant's services required to bring costs within any limitation established by the Client will be paid for as Additional Services.

(7) **Termination.** The obligation to provide further services under this Agreement may be terminated by either party upon seven days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party, or upon thirty days' written notice for the convenience of the terminating party. If any change occurs in the ownership of the Client, the Consultant shall have the right to immediately terminate this Agreement. In the event of any termination, the Consultant shall be paid for all services rendered and expenses incurred to the effective date of termination, and other reasonable expenses incurred by the Consultant as a result of such termination. If the Consultant's compensation is a fixed fee, the amount payable for services will be a proportional amount of the total fee based on the ratio of the amount of the services performed, as reasonably determined by the Consultant, to the total amount of services which were to have been performed.

(8) **Insurance.** The Consultant carries Workers' Compensation insurance, professional liability insurance in the amount of \$2,000,000 per claim, and general liability insurance. If the Client directs the Consultant to obtain increased insurance coverage, the Consultant will take out such additional insurance, if obtainable, at the Client's expense.

(9) **Standard of Care.** The standard of care applicable to Consultant's services will be the degree of care and skill ordinarily exercised by consultants performing the same or similar services in the same locality at the time the services are provided. No warranty, express or implied, is made or intended by the Consultant's undertaking herein or its performance of services, and it is agreed that the Consultant is not a fiduciary with respect to the Client.

(10) **LIMITATION OF LIABILITY.** In recognition of the relative risks and benefits of the Project to the Client and the Consultant, the risks have been allocated such that the Client agrees, to the fullest extent of the law, and notwithstanding any other provisions of this Agreement or the existence of applicable insurance coverage, that the total liability, in the aggregate, of the Consultant and the Consultant's officers, directors, employees, agents, and subconsultants to the Client or to anyone claiming by, through or under the Client, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the services under this Agreement from any cause or causes, including but not limited to, the negligence, professional errors or omissions, strict liability or breach of contract or any warranty, express or implied, of the Consultant or the Consultant's officers, directors, employees, agents, and subconsultants, shall not exceed twice the total compensation received by the Consultant under this Agreement or \$50,000, whichever is greater. Higher limits of liability may be negotiated for additional fee. Under no circumstances shall the Consultant be liable for extra costs or other consequences due to changed conditions, or for costs related to the failure of contractors to perform work in accordance with the plans and specifications. This Section 10 is intended solely to limit the remedies available to the Client or those claiming by or through the Client, and nothing in this Section 10 shall require the Client to indemnify the Consultant.

(11) **Mutual Waiver of Consequential Damages.** In no event shall either party be liable to the other for any consequential, incidental, punitive, or indirect damages including but not limited to loss of income or loss of profits.

(12) **Certifications.** The Consultant shall not be required to execute certifications or third-party reliance letters that are inaccurate, that relate to facts of which the Consultant does not have actual knowledge, or that would cause the Consultant to violate applicable rules of professional responsibility.

(13) **Dispute Resolution.** All claims by the Client arising out of this Agreement or its breach shall be submitted first to mediation in accordance with the Construction Industry Mediation Procedures of the American Arbitration Association as a condition precedent to litigation.

(14) **Hazardous Substances and Conditions.** In no event shall Consultant be a custodian, transporter, handler,



arranger, contractor, or remediator with respect to hazardous substances and conditions. Consultant's services will be limited to professional analysis, recommendations, and reporting, including, when agreed to, plans and specifications for isolation, removal, or remediation. The Consultant shall notify the Client of hazardous substances or conditions not contemplated in the scope of services of which the Consultant actually becomes aware. Upon such notice by the Consultant, the Consultant may stop affected portions of its services until the hazardous substance or condition is eliminated.

**(15) Construction Phase Services.**

(a) If the Consultant's services include the preparation of documents to be used for construction and the Consultant is not retained to make periodic site visits, the Client assumes all responsibility for interpretation of the documents and for construction observation, and the Client waives any claims against the Consultant in any way connected thereto.

(b) If the Consultant provides construction phase services, the Consultant shall have no responsibility for any contractor's means, methods, techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall Consultant have any authority or responsibility to stop or direct the work of any contractor. The Consultant's visits will be for the purpose of endeavoring to provide the Client a greater degree of confidence that the completed work of its contractors will generally conform to the construction documents prepared by the Consultant. Consultant neither guarantees the performance of contractors, nor assumes responsibility for any contractor's failure to perform its work in accordance with the contract documents.

(c) The Consultant is not responsible for any duties assigned to the design professional in the construction contract that are not expressly provided for in this Agreement. The Client agrees that each contract with any contractor shall state that the contractor shall be solely responsible for job site safety and for its means and methods; that the contractor shall indemnify the Client and the Consultant for all claims and liability arising out of job site accidents; and that the Client and the Consultant shall be made additional insureds under the contractor's general liability insurance policy.

**(16) No Third-Party Beneficiaries; Assignment and Subcontracting.** This Agreement gives no rights or benefits to anyone other than the Client and the Consultant, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole benefit of the Client and the Consultant. The Client shall not assign or transfer any rights under or interest in this Agreement, or any claim arising out of the performance of services by Consultant, without the written consent of the Consultant. The Consultant reserves the right to augment its staff with subconsultants as it deems appropriate due to project logistics, schedules, or market conditions. If the Consultant exercises this right, the Consultant will maintain the agreed-upon billing rates for services identified in the contract, regardless of whether the services are provided by in-house employees, contract employees, or independent subconsultants.

**(17) Confidentiality.** The Client consents to the use and dissemination by the Consultant of photographs of the project and to the use by the Consultant of facts, data and information obtained by the Consultant in the performance of its services. If, however, any facts, data or information are specifically identified in writing by the Client as confidential, the Consultant shall use reasonable care to maintain the confidentiality of that material.

**(18) Miscellaneous Provisions.** This Agreement is to be governed by the law of the State of Florida. This Agreement contains the entire and fully integrated agreement between the parties and supersedes all prior and contemporaneous negotiations, representations, agreements or understandings, whether written or oral. Except as provided in Section 1, this Agreement can be supplemented or amended only by a written document executed by both parties. Provided, however, that any conflicting or additional terms on any purchase order issued by the Client shall be void and are hereby expressly rejected by the Consultant. Any provision in this Agreement that is unenforceable shall be ineffective to the extent of such unenforceability without invalidating the remaining provisions. The non-enforcement of any provision by either party shall not constitute a waiver of that provision.

**(19) PURSUANT TO FS 558.0035, EMPLOYEES OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE UNDER THIS AGREEMENT.**



3008141  
 PD# ~~208249~~ 214483  
 Rec# 224180

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
 ATTN: BRYAN GONGRE  
 200 WEATHERSFIELD AVENUE  
 ALTAMONTE SPRINGS, FL 32714

Invoice No: 7722053  
 Invoice Date: Apr 30, 2016  
 Invoice Amount: \$3,800.00  
 Project No: 149685005.1  
 Project Name: CHURCH AVE UTILITY RELOC  
 Project Manager: ROMANO, STEVE  
 Client Reference:

Please send payments to:  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 P.O. BOX 932520  
 ATLANTA, GA 31193-2520

For Services Rendered through Apr 30, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - FORCE MAIN RELOCATION DESIGN	19,000.00	20.00%	3,800.00	0.00	3,800.00
TASK 2 - PERMITTING	1,500.00	0.00%	0.00	0.00	0.00
TASK 3 - CONSTRUCTION SERVICES	3,500.00	0.00%	0.00	0.00	0.00
<b>Subtotal</b>	<b>24,000.00</b>	<b>15.83%</b>	<b>3,800.00</b>	<b>0.00</b>	<b>3,800.00</b>
<b>Total LUMP SUM</b>					<b>3,800.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
 DESIGN OVERVIEW AND LAYOUT

**Total Invoice: \$3,800.00**



Invoice for Professional Services

3008141  
PB# 217402  
Rec# 227096

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7930108  
Invoice Date: May 31, 2016  
Invoice Amount: \$11,400.00  
Project No: 149685005.1  
Project Name: CHURCH AVE UTILITY RELOC  
Project Manager: ROMANO, STEVE

Client Reference:

For Services Rendered through May 31, 2016

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Federal Tax Id: 56-0885615

**LUMP SUM**

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - FORCE MAIN RELOCATION DESIGN	19,000.00	80.00%	15,200.00	3,800.00	11,400.00
TASK 2 - PERMITTING	1,500.00	0.00%	0.00	0.00	0.00
TASK 3 - CONSTRUCTION SERVICES	3,500.00	0.00%	0.00	0.00	0.00
<b>Subtotal</b>	<b>24,000.00</b>	<b>63.33%</b>	<b>15,200.00</b>	<b>3,800.00</b>	<b>11,400.00</b>
<b>Total LUMP SUM</b>					<b>11,400.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
FORCE MAIN DESIGN

**Total Invoice: \$11,400.00**



## Invoice for Professional Services

3008141  
PD# 219504  
Repts# 229137

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8010370  
Invoice Date: Jun 30, 2016  
Invoice Amount: \$5,650.00  
Project No: 149685005.1  
Project Name: CHURCH AVE UTILITY RELOC  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Jun 30, 2016

Federal Tax Id: 56-0885615

**LUMP SUM**

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - FORCE MAIN RELOCATION DESIGN	19,000.00	100.00%	19,000.00	15,200.00	3,800.00
TASK 2 - PERMITTING	1,500.00	100.00%	1,500.00	0.00	1,500.00
TASK 3 - CONSTRUCTION SERVICES	3,500.00	10.00%	350.00	0.00	350.00
<b>Subtotal</b>	<b>24,000.00</b>	<b>86.88%</b>	<b>20,850.00</b>	<b>15,200.00</b>	<b>5,650.00</b>
<b>Total LUMP SUM</b>					<b>5,650.00</b>

**Total Invoice: \$5,650.00**

**CHURCH AVENUE  
FORCEMAIN RELOCATION - BASE BID  
SCHEDULE OF VALUES**

ITEM	DESCRIPTION	QUANTITY		Tri-Sure		Traverse		Central Florida Tapping	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	Mobilization/General Conditions	1	LS	25,000.00	25,000.00	5,500.00	5,500.00	7,500.00	7,500.00
2	Preconstruction Video	1	LS	2,000.00	2,000.00	1,900.00	1,900.00	750.00	750.00
3	4" DR-11 HDPE Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	415	LF	26.00	10,790.00	45.00	18,675.00	55.00	22,825.00
4	6" DR-11 HDPE Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	1,885	LF	48.00	90,480.00	68.00	128,180.00	65.00	122,525.00
5	4"x4" Tapping Sleeve and Valve	3	EA	4,000.00	12,000.00	2,750.00	8,250.00	3,200.00	9,600.00
6	Testing, Disinfection, and Startup	1	LS	1,500.00	1,500.00	2,500.00	2,500.00	2,500.00	2,500.00
7	Project Closeout/Record Drawings	1	LS	3,000.00	3,000.00	3,500.00	3,500.00	3,750.00	3,750.00
<b>TOTAL LUMP SUM BASE BID</b>					<b>144,770.00</b>		<b>168,505.00</b>		<b>169,450.00</b>





PO Box 121754 Clermont, FL 34712  
 O: (352) 409.6630 F: (877) 532.8247

CHURCH AVENUE FORCEMAIN RELOCATION - BASE BID SCHEDULE OF VALUES					
ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization/General Conditions	1	LS	5,500.00	5,500.00
2	Preconstruction Video	1	LS	1,900.00	1,900.00
3	4" DR-11 HDPE Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	415	LF	45.00	18,675.00
4	6" DR-11 HDPE Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	1,885	LF	68.00	128,180.00
5	4"x4" Tapping Sleeve and Valve	3	EA	2,750.00	8,250.00
6	Testing, Disinfection, and Startup	1	LS	2,500.00	2,500.00
7	Project Closeout/Record Drawings	1	LS	3,500.00	3,500.00
TOTAL LUMP SUM BASE BID					\$ 168,505



P.O. Box 521279  
Longwood, FL 32752-1279  
Phone: 407-834-8271  
Fax: 407-834-3859

CU C055705  
CB C045652  
CONT. V 13942900011997

June 30, 2016

Nicole Quinby, P.E.  
Kimley-Horn  
3660 Maguire Blvd., Suite 200  
Orlando, Fl. 32803

**Re: Church Ave. Force Main Relocation**

Dear Ms. Quinby,

We propose the following,

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1	Mob./General Conditions	1	LS	\$ 7,500.00	\$ 7,500.00
2	Preconstruction Video	1	LS	\$ 750.00	\$ 750.00
3	4" DR-11 Directional Drill	415	LF	\$ 55.00	\$ 22,825.00
4	6" DR-11 Directional Drill	1885	LF	\$ 65.00	\$ 122,525.00
5	4"X4" Tapping Sleeve & Valve	3	EA	\$ 3,200.00	\$ 9,600.00
6	Testing	1	LS	\$ 2,500.00	\$ 2,500.00
7	Close out/Record Dwgs.	1	LS	\$ 3,750.00	\$ 3,750.00
<b>Total</b>					<b>\$ 169,450.00</b>

If you have any questions please call.

Sincerely,

Rick Bullington



TO: Bryan Gongre, Regional Manager

revised

8/16/2016

Utilities Inc. of Florida

200 Weathersfield Avenue

Altamonte Springs, Florida 32714

prepered by David Stalow, CFE Corp.

[stalzz@aol.com](mailto:stalzz@aol.com)

407 947 5712 cell

## RE: CHURCH AVENUE PIPE REMOVAL

A 4" force main is confilcting with installation of future storm drainage on Church Ave. in Longwood.

SCOPE: The plan is for Utiltiies Inc. (UI) to disconnect from the 4" pvc FM and vacum all waster from 4" pvc FM to be

removed by CFE, Corp. The abnadoned 4" pvc force main will then be excavated 3-4' below grade , removed and hauled off site

during installation of future storm drainage. FM removal i/a/w Plans by Kimley & Horn dated May 2016

Pay					Adjusted	Unit	7% tax	
Item	Description	Unit	Quantity	Unit Price	Unit Price	Price		Total
*1	Excavation & pipe removal	LF	2140	\$7.48		\$7.48		\$16,007.20
^2	Haul off	EA	6.12	\$400.00		\$400.00		\$2,448.00
#3	Dump Fee	CY	110.16	\$4.50		\$4.50	\$0.32	\$530.98
							SUB TOTAL	\$18,986.18
4	CFE General Conditions	ED	9.73	\$0.00	\$0.00	\$0.00	5%	\$949.31
5	Mobilization	LS	1	\$0.00	\$0.00	\$0.00	5%	\$949.31
6	MOT	LS	1	\$0.00	\$0.00	\$0.00	5%	\$949.31
							SUB TOTAL	\$21,834.11
							15% OH/P	\$3,275.12
							TOTAL	\$25,109.22

CENTRAL FLORIDA ENVIRONMENTAL, CORP.

910 Belle Avenue Suite 1040

Winter Springs, Florida 32708

CHURCH AVENUE FORCEMAIN RELOCATION - BASE BID SCHEDULE OF VALUES					
ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization/General Conditions	1	LS	25,000.00	25,000.00
2	Preconstruction Video	1	LS	2,000.00	2,000.00
3	4" DR-11 HDPE Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	415	LF	26.00	10,790.00
4	6" DR-11 HDPE Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	1,885	LF	48.00	90,480.00
5	4"x4" Tapping Sleeve and Valve	3	EA	4,000.00	12,000.00
6	Testing, Disinfection, and Startup	1	LS	1,500.00	1,500.00
7	Project Closeout/Record Drawings	1	LS	3,000.00	3,000.00
<b>TOTAL LUMP SUM BASE BID</b>					<b>144,770.00</b>

**\*\*Price does not include Boring in any rock or rock-like material**



SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 **THIS AGREEMENT**, made this 23rd day of August, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Tri Sure Corporation, doing business as a                      and hereinafter called the Contractor.

1.02 **The Owner and Contractor agree as follows:**

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Church Avenue FM Relocation

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 45 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of One hundred forty four thousand seven hundred seventy dollars & 00/100's Dollars (\$ 144,770.00).

Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Tri-Sure Corporation  
Name of Firm

Jason Chambers  
By (Signature)

(SEAL)

Jason Chambers, President  
Printed Name and Title

ATTEST:

Kerr Chambers  
By (Signature)

(Secretary) Kerr Chambers  
Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner

Bryan K. Gongre  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

Lisa August  
By (Signature)

LISA AUGUST  
Printed Name and Title

END OF SECTION

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-12**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## QUOTATION

### AMERICAN IN-LINE INSPECTION, Inc.

415 Timaquan Trail  
Edgewater, FL 32132

Phone (386) 409-5446  
Fax (386) 957-4919

Proposal Submitted To: **Utilities Inc. of Florida**

Phone: <sup>386.942.8431</sup>~~800-272-1919~~ Ext. 1360 Date: **10-21-16**

Street: **200 Weathersfield Ave.**

Job Name: **Longwood Sanitary I & I Study**

City/State/Zip Code: **Altamonte Springs, FL 32714**

Job Location: **Longwood FL, Seminole County**

ATTN: **Mr. Bryan Gongre**

Fax: **BKGongre@uiwater.com**

We propose hereby to furnish the following:

To provide cleaner truck & CCTV crew to clean & video approx. 26,300 +/- LF of 8" various existing/active sanitary sewer pipes & manhole structures, locating pipe defects for infiltration, root intrusion & blockages. Our price includes all labor, equipment, material and workmanship to complete the project, along with a clear typed report and video of our findings. One DVD or VHS will be provided. If additional copies are needed, they can be purchased for \$20.00 each.

Cleaner Truck & Crew to Clean approx. 26,300 +/- LF of Various Size Existing SAN Sewer Pipe @ \$0.95 per LF... \$ 24,985.00

CCTV Crew to Video approx. 26,300 +/- LF of Various Size Existing SAN Sewer Pipe @ \$0.95 per LF..... \$ 24,985.00

Debris Disposal Transportation Per Load @ \$100.00 Each.....\$ Quantities Unknown

Mobilization & Demobilization.....\$ N/C

ESTIMATED TOTAL W/O DISPOSAL TRANSPORTATION \$ 49,970.00

To be provided by others: Acceptable access to system to perform duties requested, permits, traffic control, water meter or clean water source, bypass pumping, plugging and suitable dump site for debris or transportation & environmental disposal charges will apply.

\*\* Please note that any downtime out of our control will be billed at an hourly rate of \$225.00 per hour.

Example - Waiting on MOT to be moved, etc.

\*\* Please note that Heavy Cleaning will be billed at \$225.00 per hour. Heavy Cleaning is defined as pipe's having more than 25% sediment in pipe.

**We appreciate this opportunity to serve Utilities Inc. of Florida**

Note: This proposal may be withdrawn by us if not accepted within **30** days.

Terms: **NET 30 DAYS**

Representative: **Walt Kush**

Authorized Signature:  Date: **10-21-16**

Acceptance of Proposal...The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above. We understand that attorney fees and collection costs will be recovered if contract is not paid in full.

Authorized Signature:  Date: **10/21/2016**

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-14**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



# ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<input type="text" value="New Project"/>		<b>Assigned Project #</b>		<input type="text" value="2016085"/>	
<b>Requested by:</b>		<input type="text" value="Michael Wilson"/> <i>Project Manager / Area Manager</i>			<b>Date:</b> <input type="text" value="8/15/2016"/>		
<b>Project Name:</b>		<input type="text" value="Mid-Co Electrical Improvements"/>					
<b>Company:</b>		<input type="text" value="Utilities Inc. of Florida"/> <input type="text" value="Mid-County Services Inc"/>					
<b>Business Unit:</b>		<input type="text" value="250100"/>		<input type="text" value="Mid-County Services Inc"/>			
<b>Project Owner:</b>		<input type="text" value="Patrick Flynn"/>			<b>BU Type:</b> <input type="text" value="SP"/>		
<b>Project Manager:</b>		<input type="text" value="Michael Wilson"/>			<b>Budget Owner / RVP:</b> <input type="text" value="John Hoy"/> <input type="text" value="03"/>		
<b>Start Date:</b>		<input type="text" value="2/1/2016"/> <input type="text" value="Q1 2016"/>		<b>Region:</b> <input type="text" value="Florida"/> <input type="text" value="04"/>			
<b>Estimated End Date:</b>		<input type="text" value="6/30/2017"/> <input type="text" value="Q2 2017"/>		<b>State:</b> <input type="text" value="FL"/>			
<b>Project Type:</b>		<input type="text" value="EH&amp;S Compliance"/>					
<b>Will project replace/retire any assets:</b>		<input type="text" value="Yes"/>					
<b>Previously Requested:</b>		<input type="text"/>					
<b>This Request:</b>		<input type="text" value="\$140,000"/>					
<b>Still to be Requested:</b>		<input type="text"/>					
<b>Total Project Budget:</b>		<input type="text" value="\$140,000"/>					
<b>Description:</b>							
<div>At the Mid-County WWTP: <b>Scope of first phase of project:</b> Provide for electrical engineering design, permitting, and construction inspection services. 1. <b>Scope of second phase of project:</b> 2. Remove and replace main electrical feed from Duke Energy Florida. 3. Install 480V pad-mounted transformer; remove existing overhead pole-mounted 230V transformers. 4. Convert all 230V 3-phase loads to 480V throughout the plant site. 5. Replace and upgrade on-site power distribution panels and conduits. 6. Remove and replace the existing 500Kw emergency generator and separate fuel tank with a Class 4 500Kw generator with subbase double-walled fuel tank with interstitial monitoring. 7. Remove (3) auto transfer switches; install a single ATS sized for all of the plant load. 8. Install new conduits and power cables throughout the plant site. 9. Geolocate all new facilities for uploading to a GIS platform.</div>							
<b>Timeline Considerations:</b>							
<div>This project will be part of the upcoming consolidated rate case as a proforma project.</div>							
<b>Inter-dependant Project</b>		<b>Project Number:</b>		<b>Project Name</b>		<input type="text" value="(If applicable)"/>	
Have engineering evaluations been performed?		<input type="text"/>		<b>Engineering project number</b>		<input type="text" value="(If applicable)"/>	

**Justification and Benefits:**

Mid County WWTP is a 0.900 mgd treatment facility built in the early 1970's (North Plant) and expanded thereafter by the addition of the South Plant. The facility discharges to Curlew Creek after nutrient removal, disinfection, and dechlorination. The facility is required to have standby generator power to meet permit limits during power outages. The existing 1978 generator and primary transfer switch were bought used and installed in January 1993. This equipment is frequently under repair, parts are difficult to obtain on short notice, and it has reached the end of its service life. A new generator must meet Class 4 emissions limits in order to comply with Clean Air Act requirements so as to continue qualifying for Duke Energy's interruptible power tariff.

The design engineer determined that the existing electrical distribution equipment fails to meet current electrical code. In order to obtain a Pinellas Co. electrical permit, all of the deficient components of the electrical system must be replaced and upgraded with new transfer switches, motor controls, distribution panels, conduits, cables, and ancillary equipment.

The project includes a change from 230V service to 480V service in order to provide cleaner incoming power with fewer outages and negative impacts to motors and pumps caused by the current service.

The initial project budget encompasses the cost of electrical engineering services including an evaluation of current conditions, design of the necessary improvements, permitting, bidding, and construction inspection services. Once DEP issues a construction permit, the project will be bid out. The project bids will then be technically reviewed by the review team before proceeding with the construction phase.

**Risk Evaluation**

In 2015 the facility experienced a power failure that required the generator to run over a 48 hour period. During this period the generator experienced an overheating issue which resulted in a shutdown of the unit. We were very fortunate to get the unit back on line. After approximately 12 hours we experienced another shut down. The power company then returned normal power to the facility. The current unit's performance history indicates that it could fail at any time, which would result in the cost of renting a 500Kw unit on short notice with very high daily/weekly rental charges. This would put the facility at risk of not meeting effluent water quality limits, which could lead to FDEP enforcement action.

The Mid-County Plant is located adjacent to Curlew Creek, which historically has flooded parts of the plant site during and after heavy rains. The project will mitigate against power failure duration and frequency caused by flooding conditions.

**Alternatives Considered:**

1. Renting and connecting a large generator on a temporary basis if the existing unit fails.
2. Delay the project until the generator fails utterly, then incur heavy costs to reestablish power during emergency conditions.

**Technical Review Summary:**

We have enlisted the services of APG Engineering to define the current condition of the facility and the improvements required to bring the facility into compliance with current NEC requirements.



<b>Capital Plan</b>	<b>Yr 1</b>	<b>Yr 2</b>	<b>Yr 3</b>	<b>Yr 4</b>	<b>Yr 5</b>
Proposed Project Spend	140,000				
Project Spend in Current Plan	900,000				
Variance	760,000	-	-	-	-
CIAC Collected					
Net Rate Base	140,000	140,000	140,000	140,000	140,000
<b>O&amp;M Cost Impact B/(W)</b>					

(if applicable)

**Financial Justification**

The preliminary engineering estimate to construct the described facilities is approximately \$760,000.

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

<b>Served</b>	<b>Rate Payers</b>
(7.60)	\$ (7.60)
2,200	2,200

**Utility Financial Impact**

O&M Impact on EBITDA B/(W)  
 Depreciation Impact on EBIT B/(W)  
 Under-recovery on capital B/(W)  
 Net EBIT Impact B/(W)

<b>Yr 1</b>	<b>Yr 2</b>	<b>Yr 3</b>	<b>Yr 4</b>	<b>Yr 5</b>
	-	-	-	-
(3,500)	(7,000)	(7,000)	(7,000)	(7,000)
(2,559)	(9,713)	(9,188)	(8,663)	(8,138)
(6,059)	(16,713)	(16,188)	(15,663)	(15,138)

**Timing and Supporting Information on Rate Recovery**

The project is included in the 2016 UIF rate case as a proforma project. It must be completed no later than 12/31/17 to be included in the revenue requirement.

**Regulatory Plan Implications**
**Assumptions**

Construction costs are estimated only. Actual bids may differ significantly from the engineer's estimate.



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	TBD		
2	TBD		
3	TBD		

### Component:

### Amount

Value Bid Elements

-

should match selected bid(s) above

Engineering

28,100.00

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Project Management

98,400.00

Site Survey (Kimley Horn)

13,500.00

Elect. Upgrades and Genset/ATS

TBD

Total Project Budget

140,000.00

should match Total Budget per General Information

Object Account(s) to which project will be closed:

1095

Power Generation Equip

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

This project includes the demo of existing substandard electrical transformers, overhead power poles, underground power cables, conduits and structures including the existing 500 Kw genset and 3 transfer switches. The installation of new electrical transformers, underground power cables, conduits and structures, 500Kw genset, auto transfer switch, enclosure, the rewiring of existing electric from 230V to 480V.

APG was selected to provide initial analysis and project design services for \$41,600. APG then was selected to provide construction management & inspection services over the construction period due to their expertise, their familiarity with the facilities, the length of the construction schedule, and the need to augment the utility's resources in monitoring and managing the project to completion.

At least three bids will be solicited from qualified utility contractors before the project moves to the construction phase.



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/23/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

#### Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/18/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

Clarify in the project description that the initial phase is limited to engineering and surveying services. Once the project is bid out and bids received, the revised project budget will be presented for technical review before beginning construction.

### FP&A Review

Review Completed by  Date:

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☐ No ☐

#### Comments

### Approvals

Applicable?

Regional Manager: Michael Wilson Date: 8/18/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/18/2016 ☒

President: John P. Hoy Date: 8/25/2016 ☒

### Approval or Re-Direction Comments



MECHANICAL  
ELECTRICAL  
PLUMBING  
FIRE PROTECTION  
TELECOMMUNICATIONS

August 23, 2016

Mid-County Services, Inc.  
200 Wethersfield Ave.  
Altamonte Springs, Florida 32714-4027  
Attn: Michael Wilson

RE: Mid County Services, Inc. - 480 Volt Service Replacement  
Dunedin, Florida

Dear Michael,

Regarding your e-mail last week we have provide our fee schedule for specific construction management services to this proposal in connection with the above referenced project.

**Scope of Services for Construction Management Services**

APG Engineering will provide the following construction management services based upon a 28 week on-site project for the referenced project:

1. Develop and maintain the schedule and phasing for the project.
2. Conduct Pre-construction meeting with contractors:
  - a. Provide site requirements and responsibilities.
  - b. Identify and track long lead equipment items.
  - c. Demolition requirements and disposals.
3. Conduct weekly construction meetings (28 weeks), and maintain meeting documents.
4. Provide necessary restroom facilities for construction duration (28 weeks).
5. Coordination with Duke Energy.
6. Coordination of shut downs with owners and contractors.
7. Obtain and maintain document management for the project to include:
  - a. Contractor qualifications, licensing, and insurance.
  - b. Obtain and maintain MSDS safety data sheets.
  - c. Weekly Safety Meetings.
  - d. Daily Logs.
  - e. Pre-task Forms.
  - f. RFI's and Change Orders.
  - g. Hot Permits.
  - h. Confine Space Permits.
  - i. Monthly Pay Application Review.
  - j. Testing and Final Approvals – witness and review.
  - k. Develop punch List and manage completion of the work.
  - l. Close-out Documents.
  - m. Owner Training
  - n. Final Pay Application and Review.



8. On-Site Monitoring:

- a. On-site 2 days a week for project duration (28 weeks).
- b. Material Verification with specifications and submittals.
- c. Fields QA/QC, Job Observation Reports.
- d. Field Safety Review, Job Safety Reports.

**Fee**

Based on the scope of the project, as described above, APG Engineering's Construction Management fee not to exceed **Ninety Eight Thousand Four Hundred Eighty Dollars \$98,400.00**. This lump sum shall be adjusted upward pro rata if the scope increases from the above.

Refer to Table 2 below for a breakdown of the services listed above.

Service	Proposal Fee	Responsibility
Develop and maintain Project Schedule	\$3,040.00	APG Engineering
Pre-construction Meeting	\$1,520.00	APG Engineering
Weekly Construction Meetings	\$4,620.00	APG Engineering
Provide Facilities	\$2,700.00	APG Engineering
Site Trailer and mobilization	\$5,600.00	APG Engineering
Document Management	\$7,000.00	APG Engineering
On-Site Monitoring – 28 weeks 2 days/week	\$73,920.00	APG Engineering
<b>Total</b>	<b>\$98,400.00</b>	

Table 2: Fee Breakdown

**Options**

- |  |                  |
|--|------------------|
| 1. On-site Monitoring for 3 days a week for 28 weeks | ADD \$ 32,340.00 |
| 2. On-site monitoring for 5 days a week for 28 weeks | ADD \$ 99,260.00 |

**Assumptions**

1. The construction management service fees provided for this proposal are based upon:
  - a. The construction management service to be provide as an owner representative advisory role for this project.
  - b. This service is not intended to be provided as a construction management at risk agreement.
  - c. The construction management service cannot and does not warrant or represent that bids or negotiated prices will not vary from the project construction budget.
2. 3<sup>rd</sup> Party commissioning is not included as part of this proposal.
3. The awarded contractors shall provide all necessary permits and inspections.
4. The owner will issue contracts to the contractor directly.
5. APG Engineering Design Services are covered under a separate proposal/contract.
6. APG Engineering Request for Proposal (RFP) Process is covered under a separate proposal/contract.
7. APG Electrical Services are covered under a separate proposal/contract.
8. Construction Management Services of mechanical equipment replacement, such as pumps, is not included in this fee.

For services described as "Change in Services," APG Engineering will be reimbursed on an hourly basis at the rates below:

- Principal- \$230
- Construction Project Manager/Senior Engineer- \$185
- Engineer/Senior Designer- \$165
- Designer- \$125
- CAD Operator- \$95
- Administrative- \$75

Reimbursable expenses include travel-related costs, mileage, meals, plotting and printing (except as required for in-house coordination), courier services, shipping and express mail. Such additional reimbursable expenses will be billed at 1.1 times actual cost to account for handling. Reimbursable expenses shall not exceed \$1,500.00.

During our review of this project, we have three areas of concern that may increase the cost and subject the project to schedule delays: 1) requirements of the control system to operate the electrical equipment, 2) replacement and or service of existing mechanical equipment <sup>up</sup> to maintenance and/or the power conversion, and 3) 3<sup>rd</sup> party commissioning of the project (if required). We recommend that funding for these items be included with the budget pricing for this project.

We appreciate the opportunity to provide you with this proposal. If all of this is satisfactory with you, please provide us a purchase order or a letter of intent to proceed. Authorized to begin work will assume the terms and conditions of this proposal are accepted and referenced in the purchase order or letter of intent.

We are looking forward to working with you on this project.

Sincerely,  
APG Engineering

Michael Millard, CFPS, SET  
Project Manager/Designer

ACCEPTED:

<input checked="" type="checkbox"/> Base Bid Price	\$98,400.00
<input type="checkbox"/> Option # 1	\$32,340.00
<input type="checkbox"/> Option # 2	\$99,260.00

  
Owner Representative: APG ELECTRIC, INC. OF FLORIDA  
Patrick C. Flynn, Vice-President, Mid-County Services Inc.

Date: 8/23/16

  
Consultant:  
Michael Dobbs, Principal, APG Engineering

Date: 8/23/16



MECHANICAL  
ELECTRICAL  
PLUMBING  
FIRE PROTECTION  
TELECOMMUNICATIONS

August 23, 2016

Mid-County Services, Inc.  
200 Wethersfield Ave.  
Altamonte Springs, Florida 32714-4027  
Attn: Michael Wilson

RE: *WIF - Mid-County WWTTP*  
~~Mid-County Services, Inc.~~ - 480 Volt Service Replacement  
Dunedin, Florida

Dear Michael,

Regarding your e-mail last week we have provided a proposal for the Request for Proposal (RFP) process in connection with the above referenced project.

**Scope of Services for the Request for Proposal (RFP) Process**

APG Engineering will provide the following development and administrative services:

1. Develop the Request for Proposal (RFP) for the referenced project to include:
  - a. The owner contractual requirements, insurance requirements.
  - b. The project construction management requirements.
  - c. Construction documents and specifications.
2. Review the Request for Proposal (RFP) documents with the owner.
3. Implement the Request for Proposal (RFP) process, consult with the owner on the contractors to send the Request for Proposal (RFP).
4. Conduct pre-bid meeting (if necessary), obtain contractor bids, review all bids with the owner and make recommendations based upon compliance with contract documents, bid specifications, and contractor qualifications.

**Fee**

Based on the scope of the project, as described above, APG Engineering's Construction Management fee not to exceed **Four Thousand Nine Hundred and Ten Dollars \$4,910.00**. This lump sum shall be adjusted upward pro rata if the scope increases from the above.

Refer to Table 1 below for a breakdown of the services listed above.

Service	Proposal Fee	Responsibility
Develop RFP	\$2,400.00	APG Engineering
RFP Review	\$600.00	APG Engineering/Owner
Implement RFP Process	\$600.00	APG Engineering
Pre-bid meeting, Bid review Process	\$1,310.00	APG Engineering
Issue Prime Contractor contracts	N/A	Owner
Close out documents	\$400.00	APG Engineering
Total	\$4,910.00	

Table 1: Fee Breakdown

#### Options

1. Provide Prime Contractor contract services ADD \$ 1,200.00

#### Assumptions

1. The owner will provide the required insurance and legal requirements for the RFP.
2. The owner will issue contracts to the contractor directly.
3. APG Engineering Design Services are covered under a separate proposal/contract.
4. APG Engineering Construction Management Services are covered under a separate proposal/contract as provided below.
5. APG Electrical Services are covered under a separate proposal/contract.

For services described as "Change in Services," APG Engineering will be reimbursed on an hourly basis at the rates below:

- Principal- \$230
- Construction Project Manager/Senior Engineer- \$185
- Engineer/Senior Designer- \$165
- Designer- \$125
- CAD Operator- \$95
- Administrative- \$75

Reimbursable expenses include travel-related costs, mileage, meals, plotting and printing (except as required for in-house coordination), courier services, shipping and express mail. Such additional reimbursable expenses will be billed at 1.1 times actual cost to account for handling. Reimbursable expenses shall not exceed \$500.00.

During our review of this project, we have three areas of concern that may increase the cost and subject the project to schedule delays: 1) requirements of the control system to operate the electrical equipment, 2) replacement and or service of existing mechanical equipment do to maintenance and/or the power conversion, and 3) 3<sup>rd</sup> party commissioning of the project (if required). We recommend that funding for these items be included with the budget pricing for this project.

We appreciate the opportunity to provide you with this proposal. If all of this is satisfactory with you, please provide us a purchase order or a letter of intent to proceed. Authorized to begin work will assume the terms and conditions of this proposal are accepted and referenced in the purchase order or letter of intent.

We are looking forward to working with you on this project.


Sincerely,  
APG Engineering

Michael Millard, CFPS, SET  
Project Manager/Designer


Cc: Accounting  
MD, MH

ACCEPTED:

[X] Base Bid Price \$4,910.00  
[X] Option # 1 \$1,200.00

  
Owner Representative: *UTILITIES, INC OF FLORIDA*  
Patrick C. Flynn, Vice-President, ~~Mid-County Services Inc.~~

Date: 8/23/16

  
Consultant:  
Michael Dobbs, Principal, APG Engineering

Date: 8/23/16



UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: MIKE WILSON  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7627310  
Invoice Date: Mar 31, 2016  
Invoice Amount: \$1,530.00  
Project No: 140056002.1  
Project Name: MID COUNTY WWTP MAPPING  
Project Manager: WOOD, WADE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Mar 31, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TOTAL AUTHORIZED FEE	15,300.00	10.00%	1,530.00	0.00	1,530.00
<b>Subtotal</b>	<b>15,300.00</b>	<b>10.00%</b>	<b>1,530.00</b>	<b>0.00</b>	<b>1,530.00</b>
<b>Total LUMP SUM</b>					<b>1,530.00</b>

**Total Invoice: \$1,530.00**



ELECTRIC  
ENGINEERING  
TECHNOLOGY  
AUTOMATION  
LIFE SAFETY

December 7, 2015

Mid-County Services, Inc.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714-4027

Attn: Michael Wilson (via email: mawilson@uiwater.com)

RE: Mid-County Generator and Service Replacement  
Dunedin, FL

Dear Michael,

The following is our **Revised Preliminary Budget (Order of Magnitude)** cost proposal for electrical work as shown on preliminary (not for construction) drawings dated November 12, 2015:

**SCOPE OF WORK**

TEMPORARY ELECTRICAL .....	\$ 67,500.00
DEMOLITION	
EXISTING GENERATOR BUILDING .....	\$ 6,000.00
ELECTRICAL WORK .....	\$ 24,000.00
ELECTRICAL WORK	
<u>SUB STATION</u>	
15KV GEAR/TRANSFORMER .....	\$ 17,000.00
MATERIALS .....	\$ 27,000.00
LABOR .....	\$ 15,000.00
<u>EMERGENCY GENERATOR</u>	
GENERATOR/GEAR/HOUSE/RIGGING .....	\$ 297,000.00
SLAB (ADD TO EXISTING) .....	\$ 4,000.00
MATERIALS .....	\$ 14,000.00
LABOR .....	\$ 23,000.00
FUEL PIPING .....	\$ 3,500.00
<u>INTERCEPT EXISTING ELECTRICAL FEEDERS/LOADS</u>	
MATERIALS .....	\$ 145,000.00
LABOR .....	\$ 70,000.00
TOTAL BUDGET AMOUNT	\$ 713,000.00

**ALTERNATE (FOR TEMPORARY POWER)**

- 1) Provide new outside 800-amp panel (replacing existing panel 'PPA') for temporary power.

ADD (BUDGET) .....\$ 5,000.00

**Note:** This alternate is offered in case the existing panel cannot be used.

**CLARIFICATIONS**

The following costs are **EXCLUDED** from our bid proposal:

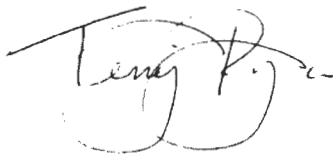
- 1) Payment and Performance Bond.
- 2) Utility company service charges for permanent and/or temporary electrical service.
- 3) Utility company energy consumption charges.
- 4) Off-site parking and lay down areas for material storage.
- 5) Electrical engineering.  
**Note:** This contract is direct with APG Engineering and Mid-County Services.
- 6) Diesel fuel for temporary generator.  
**Note:** Possible transfer fuel from existing diesel fuel tank to temporary tank.
- 7) New slab for new generator house.  
**Note:** Budget assumes being able to re-use existing slab with extension.
- 8) Demolition of existing carport.

The following costs are **INCLUDED** in our bid proposal in addition to what is shown on bid documents:

- 1) Electrical permit.
- 2) Removal of trash from site.
- 3) State and County sales tax on all materials.
- 4) Sub-Station.  
**Note:** Duke Energy is unable to provide new service drop at required voltage (120/240, 3-phase, Delta) 2,000 amps. Project design will show new sub-station.

We want to thank you for the opportunity to present our proposal, and look forward to working with you on this project.

Sincerely,  
APG Electric, Inc.



Terry Ryan  
Preconstruction Special Projects

cc: Michael Dobbs  
Rolando Martiatus

(via email: [mike.dobbs@apg.company](mailto:mike.dobbs@apg.company))  
(via email: [rolando.martiatus@apg.company](mailto:rolando.martiatus@apg.company))

March 7, 2016

Michael Wilson  
Mid-County Services, Inc.  
200 Weathersfield Ave  
Altamonte Springs, FL 32714-4027

RE: Mid-County Services, Inc. – 480V Electrical Service  
Dunedin, FL

Dear Mike:

We appreciate the opportunity to provide this proposal and are looking forward to working with Mid-County Services, Inc. We propose to furnish you those electrical engineering services described in AIA Document C141 (1997 Edition) as "Scope of Consultant's Services" for this project.

#### **Proposal Basis**

We understand the scope of this project to be the redesign of the completed construction documents for the electrical service and generator replacement located at your wastewater treatment facility located at 2299 Spanish Vista Dr., Dunedin, Florida. We will redesign the project coordinated with a new utility voltage of 480V/3-phase system in lieu of utilizing the existing 240V/3-phase utility system. Specifically, this new scope of work will require the following:

1. Identification and documentation of nameplate data for each existing load (HP, voltage, amperage, VFD, disconnect type).
2. Identify control voltages associated with each load.
3. We will work with Mid County Services to fully understand which pieces of equipment will have to be changed to 480V and which ones can remain at 240V. Additionally, coordinate which controls can remain at 120V.
4. Develop revised drawings for the plant for the new 480/240/120 voltages.

#### **Scope of Services**

APG Engineering will provide the following engineering and design services:

1. As necessary, review prior design documents and perform site surveys as needed to obtain approximate size, location, and routing of existing electrical equipment and services.
2. Generate electrical drawings indicating the required demolition and new construction work. As needed, this shall include; coversheets, floor plans, schedules, details, and risers.
3. Supplementary support documents will be provided with final construction documents. As needed, these shall include: specifications.
4. Construction administration services shall be included. This shall consist of reviewing shop drawings and submittals, providing responses to requests for information, and performing a final punch list inspection.

**Excluded services:**

1. Record Drawings at the conclusion of the construction phase.
2. Utility design for specialty use spaces such as Data Centers, Kitchens, Event Centers, Auditoriums, etc.
3. Electric load metering of branch panels and service entrance.
4. Cost estimating.

**Existing Services**

Unless specifically identified and quantified in writing by others, it is assumed that existing building utilities (including but not limited to mechanical, electrical, plumbing, fire protection and telecommunications systems) will be available and provide sufficient capacity in the immediate vicinity of the project area, and are currently code compliant. Should we be required to perform extensive research (primarily the determination of information not available to us on existing plans or specifications provided by the owner) in order to design the necessary connections and interfaces with existing systems and services, the additional work would be considered a Change in Service.

APG Engineering will identify testing required to confirm or determine capacities and performance of existing systems we believe appropriate and necessary for the scope of this project, including, but not limited to test and balance reports for HVAC systems and ampacity and circuit identification for electrical equipment. We understand the Owner will retain the necessary independent agencies to obtain this information, and report it in a timely manner during the design process.

**Client Provided Information**

At the start of the project APG Engineering shall be provided with all available existing condition documents applicable to the project's scope of work.

**Fee**

Based on the scope of the project, as described above, additional services for this scope of work is a lump sum of **Seven Thousand Five Hundred Ten Dollars (\$7,510)**. This lump sum shall be adjusted upward pro rata if the scope increases from the above. Our fee was assembled in the following manner:

For services described in C141 as "Change in Services," APG Engineering will be reimbursed on an hourly basis at the rates below:

- Principal- \$230
- Project Manager/Senior Engineer- \$185
- Engineer/Senior Designer- \$165
- Designer- \$125
- CAD Operator- \$95
- Administrative- \$75

**Billing**

Billing will be monthly based on the percentage of services completed. A phase of work percentage guideline is provided below.

- Construction Documents 100%

**Limitation of Liability:**



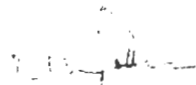
To the fullest extent permitted by law, the total liability or claims levied against APG Engineering (in aggregate) shall not exceed \$50,000. This shall be inclusive of any and all injuries, losses, damages and expenses whatsoever arising out of, resulting from, or in any way related to, but not limited to, negligence, professional errors or omissions, strict liability, breach of contract or warranty, either expressed or implied, of APG Engineering. APG Engineering shall not be responsible for acts, errors, or omissions of the Architect, Architect's other consultants, Contractors, Subcontractors, their agents or employees, or other persons performing work.

This proposal letter shall be referred to herein as "Agreement." The Agreement represents the entire agreement between the parties and supersedes all prior and contemporaneous agreements. This Agreement may only be amended in writing agreed to by the parties. The Agreement shall be governed and construed under the laws of the State of Florida.

We appreciate the opportunity to provide you with this proposal. If all of this is satisfactory with you, please sign one copy of this letter and return it to us. In the event we do not receive a signed copy of this letter, and we are authorized to begin work, we will assume the terms and conditions of this proposal have been accepted by you.

We are looking forward to working with you.


Sincerely,



Michael Dobbs  
Principal

c: Accounting  
MD, MH

ACCEPTED:



Agent – Mid County Services, Inc.

Date:

3/7/16

3076769

RECEIVED

MAR 01 2016



## INVOICE

ELECTRIC  
ENGINEERING  
TECHNOLOGY  
AUTOMATION  
LIFE SAFETY

Remit To: 4825 140th Avenue North  
Clearwater, FL 33762

Project: 2126.

Bill To: Utilites Inc  
2335 Sanders Road  
Attn: Accounts Payable  
Northbrook, IL 60062

Mid-County Utilities  
2299 Spanish Vistas Drive  
Dunedin, FL 34698

Batch \_\_\_\_\_

Doc \_\_\_\_\_

INVOICE #	INVOICE DATE	PAYMENT TERMS	CUSTOMER
105456	02/25/16	Net 30 days	10604

CONTRACT ITEM	CONTRACT AMOUNT	% COMPLETE	TOTAL TO DATE
100 Engineering Services	6,400.00	100.00%	6,400.00
	6,400.00		6,400.00
<div> <div>Total To Date :</div> <div>6,400.00</div> </div> <div> <div>Plus Sales Tax :</div> <div>0.00</div> </div> <div> <div>Less Retainage :</div> <div>0.00</div> </div> <div> <div>Less Previous Applications :</div> <div>5,760.00</div> </div> <div> <div>Total Due This Invoice :</div> <div>640.00</div> </div>			

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160191-WS

**EXHIBIT PCF-15**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<input type="text" value="New Project"/>		<b>Assigned Project #:</b> <input type="text" value="None"/>	
<b>Requested by:</b>	<input type="text" value="Michael Wilson"/> <i>Project Manager / Area Manager</i>			<b>Date:</b>	<input type="text" value="11/15/2015"/>
<b>Project Name:</b>	<input type="text" value="MC Field Office Trailer"/>				
<b>Company:</b>	<input type="text" value="250"/>	<input type="text" value="Mid-County Services Inc"/>			
<b>Business Unit:</b>	<input type="text" value="250100"/>	<input type="text" value="Mid-County Services Inc"/>			
<b>Project Owner:</b>	<input type="text" value="Patrick Flynn"/>			<b>BU Type:</b>	<input type="text" value="SP"/>
<b>Project Manager:</b>	<input type="text" value="Michael Wilson"/>			<b>Budget Owner / RVP:</b>	<input type="text" value="John Hoy"/> 03
<b>Start Date:</b>	<input type="text" value="11/16/2015"/>	<input type="text" value="Q4 2015"/>	<b>Region:</b> <input type="text" value="Florida"/> 04		
<b>Estimated End Date:</b>	<input type="text" value="5/31/2016"/>	<input type="text" value="Q2 2016"/>	<b>State:</b> <input type="text" value="FL"/>		
<b>Project Type:</b>	<input type="text" value="Other"/>				
<b>Will project replace/retire any assets:</b>	<input type="text" value="Yes"/>				
<b>Previously Requested:</b>					
<b>This Request:</b>	<input type="text" value="\$65,000"/>				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	<input type="text" value="\$65,000"/>				
<b>Description:</b>					
<div>Remove and replace Mid-County field office trailer including:<ul style="list-style-type: none"><li>-site prep and tree trimming</li><li>-landscaping to county code</li><li>-plumbing and electrical hookups</li><li>-permitting, Pinellas County</li><li>-office furniture</li><li>-relocation of communication and SCADA infrastructure.</li><li>-disposal of existing field office trailer.</li></ul></div>					
<b>Timeline Considerations:</b>					
<div>To be included as a pro forma in the July 2016 consolidated rate case.</div>					
<b>Inter-dependant Project</b>	<b>Project Number:</b>	<input type="text"/>	<b>Project Name</b>	<input type="text"/>	(If applicable)
<b>Have engineering evaluations been performed?</b>	<input type="text"/>	<b>Engineering project number</b>	<input type="text"/>	(If applicable)	

**Justification and Benefits:**

The existing office trailer has exceeded its expected service life. The unit has been in service since 1996, approximately 20 years. The facility is in need of replacement due to structural degradation and general wear and tear over many years of use.

The new facility will provide additional room to support the requirements of the Area Manager, plant operators and field staff at the Mid-County WWTP as well as house the treatment plant's SCADA system, the process control lab facilities, storage lockers, offices, and storage space for files, plans and drawings. The new facility will also provide adequate meeting space to conduct safety training activities, which are currently lacking.

**Risk Evaluation**

Existing facility has experienced frequent repairs to its HVAC, the roof leaks, the electrical service is undersized for current operational needs, the floor is failing and the wear and tear after many years of use indicate the trailer will require a major investment in order to extend its useful life. However, the trailer footprint and the layout of the rooms within the trailer are inadequate in meeting the current and future needs of the operations staff.

**Alternatives Considered:**

Build a block structure designed to withstand 160 mph winds that meets current building requirements, which would far exceed the cost of the proposed modular office space.

**Technical Review Summary:**

None required as the project budget does not exceed the minimum threshold required for technical review.





## Financial and Regulatory Implications

### Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
65,000				
65,000				
-	-	-	-	-
65,000	65,000	65,000	65,000	65,000

(if applicable)

O&M Cost Impact B/(W)

--	--	--	--	--

### Financial Justification

--

Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served Rate Payers

2,200	3,100.00

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-

### Timing and Supporting Information on Rate Recovery

--

### Regulatory Plan Implications

--

### Assumptions

--



If not, why? List and provide amounts below

Component:	Amount
Value Bid Elements	43,800.00
Engineering	
Direct Purchase of Parts / Materials	
Landscaping / Site Restoration	
Other Components (specify):	
Cap Time	
Site work	17,200.00
Demo of old trailer	2,100.00
Furniture, process lab cabinets	1,900.00

**65,000.00** should match Total Budget via General Information

Office Struct & Imprv  
select from dropdown list  
select from dropdown list  
select from dropdown list  
select from dropdown list

**General Comments:**

--



## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Date Held

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

None, project budget does not exceed the minimum threshold required for technical review.

### FP&A Review

Review Completed by

Date:

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Michael A. Wilson

Date: 11/15/2015

☒

VP Operations:

Patrick C. Flynn

Date: 11/15/2015

☒

President:

Date:

☐

### Approval or Re-Direction Comments



MODSPACE  
1200 SWEDESFORD RD.  
BERWYN, PA 19312

Return Service Requested

# INVOICE

RECEIVED  
NOV 24 2015

## Remittance Section

Customer Number 1233023  
Invoice Number 501396421  
Invoice Date 11/19/2015  
**Due Date**  
**Please Pay This Amount** **Due Upon Receipt**  
**\$ 10,500.00**

Amount Enclosed: \$

*Make Checks payable to Modular Space Corporation*

0319000229 PRESORT 229 1 MB 0.436 P1C3 <B>



MID-COUNTY SERVICES, INC.  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS FL 32714-4027

Modular Space Corporation  
12603 Collections Center Drive  
Chicago, IL 60693-0126



0001050000012330230005013964210

*Please return this portion with your payment. Do not enclose correspondence.*

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**ModSpace is available whenever and wherever you need us.**

Choose from 80 sales and service locations across North America.

Stop by, give us a call or visit us on the web. On the run?

Our mobile site lets you browse quickly and connect with us from anywhere.

Visit us at [ModSpace.com](http://ModSpace.com) or call 800-523-7918 today.

Customer Name:	Mid-County Services, Inc.	Total Base Amount:	\$ 10,500.00
Customer Number:	1233023-0001	Total Taxes:	\$ 0.00
Invoice Number:	501396421	Total Due:	\$ 10,500.00
ModSpace Tax ID:	54-1375284		

DESCRIPTION	CONTRACT NUMBER	PO NUMBER	BILLING PERIOD	AMOUNT	TAX	TOTAL DUE
Project#:	1411380	201170	11/19/2015 - 11/19/2015			
Project Name:						
Contact:						
Location:						
Asset(s): 0 s/n						
Custom Sale Upfront Deposit				10,500.00	0.00	10,500.00
Up deposit for sale # 1411513. PO # 201170						
Subtotal				10,500.00		
Total Tax					0.00	
Invoice Total						10,500.00

**PLEASE PAY THIS AMOUNT \$ 10,500.00**





MODSPACE  
1200 SWEDES FORD RD.  
BERWYN, PA 19312

Return Service Requested

# INVOICE

RECEIVED  
MAY 02 2016

## Remittance Section

Customer Number  
Invoice Number  
Invoice Date  
**Due Date**  
**Please Pay This Amount**

1233023  
501578694  
04/26/2016  
**Due Upon Receipt**  
**\$ 33,297.32**

Amount Enclosed: \$ \_\_\_\_\_

*Make Checks payable to Modular Space Corporation*

6204000045 <8>



MID-COUNTY SERVICES, INC.  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS FL 32714-4027

Modular Space Corporation  
12603 Collections Center Drive  
Chicago, IL 60693-0126



0003329732012330230005015786944

*Please return this portion with your payment. Do not enclose correspondence.*

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Our mobile site lets you browse quickly and connect with us from anywhere.

Visit us at [ModSpace.com](http://ModSpace.com) or call 800-523-7918 today.

Customer Name:	Mid-County Services, Inc.	Total Base Amount:	\$ 33,297.32
Customer Number:	1233023-0001	Total Taxes:	\$ 0.00
Invoice Number:	501578694	Total Due:	\$ 33,297.32
ModSpace Tax ID:	54-1375284		

DESCRIPTION	CONTRACT NUMBER	PO NUMBER	BILLING PERIOD	AMOUNT	TAX	TOTAL DUE
Project#:	1411380	201170	4/26/2016 - 4/26/2016			
Project Name:						
Contact:						
Location:						
Asset(s): 0 s/n						
Custom Sale Final Billing				30,699.50	0.00	30,699.50
CSC # 1411513						
Asset(s): 0						
Custom Sale Sales Tax Billing				2,597.82	0.00	2,597.82
CSC # 1411513						
Subtotal				33,297.32		
Total Tax					0.00	
Invoice Total						33,297.32

**PLEASE PAY THIS AMOUNT \$ 33,297.32**





P.O. Box 2459  
RIVERVIEW, FL 33569  
PHONE: (813) 677-6877  
FAX: (813) 677-2605

Water&WW Systems/Underground Utilities/Site Work/Industrial Construction  
State Certified General Contractor CG-C061731/EC13004251

**INVOICE #79159**  
April 25, 2016

MID COUNTY UTILITIES, INC.  
2335 Sanders Road  
Northbrook, IL 60062

RE: Office Trailer Site Work/Utilities/Permits – Mid County Wastewater Facility  
PO#

Ordered by: Michael Wilson  
Mid County Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Work Completed from 2/1/16 through 4/18/16:  
Obtain Building Permit from Pinellas County for new office trailer at wastewater facility.  
Coordinate delivery and installation of trailer to site with ModSpace.  
Supply and install new 4" gravity sewer from new office trailer and connect to existing manhole & test.  
Supply and install new ¾" water line from new office trailer and connect to existing water service & test.  
Supply and install new electrical wire and conduit from new office trailer to existing electrical service.  
Supply and install new 125amp circuit breaker in existing disconnect to match power in new trailer.  
Schedule and coordinate plumbing, electrical, mechanical, and habitat inspections with County.

Supervisor – 51.5 total manhours = \$3,455.68  
Labor – 107 total manhours = \$2,097.05  
Electrical – 77.5 total manhours = \$3,547.50  
Equipment – Excavator, Crane Truck, Equipment = \$1,785.00  
LABOR & EQUIPMENT: \$10,885.23  
ADMINISTRATIVE: \$2,060.21  
PERMIT FEES: \$1,523.66  
MATERIALS: \$2,728.73

**TOTAL AMOUNT DUE THIS INVOICE: \$17,197.83**  
**TERMS: Due Upon Receipt**

Water&WW Systems/Underground Utilities/Site Work/Industrial Construction  
State Certified General Contractor CG-C061731/EC13004251

**INVOICE #79185**  
August 30, 2016

MID COUNTY UTILITIES, INC.  
2335 Sanders Road  
Northbrook, IL 60062

RE: Office Trailer Site Work/Utilities/Permits – Mid County Wastewater Facility  
PO#212939 BU#250100

Ordered by: Michael Wilson  
Mid County Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Work Completed from 4/19/16 through 8/30/16:

\*Obtain Asbestos Survey Report and submit to Pinellas County to obtain Demolition Permit, coordinate inspections. Schedule and coordinate final plumbing, electrical, mechanical, habitat, and demo inspections with County.

\*Supplied and install new junction box with 20amp breaker, conduit and wire in new trailer for hot water heater. Removed existing electrical pedestal that was above ground. Supplied and install new ground level hand hole with new wire and conduit and connected to new office trailer. Supplied and install ground rod system for new trailer.

\*Graded area where trailer was removed and in front on new office trailer. Supplied and graded 4 loads of asphalt millings. Supplied and installed 5 precast car stops.

Supervisor – 6.5 total manhours = \$182.90

Labor – 26 total manhours = \$538.48

Electrical – 50 total manhours = \$3,146.69

Equipment – Skid Steer. Truck. Equipment = \$1,680.00

LABOR & EQUIPMENT: \$5,548.07

ADMINISTRATIVE: \$1,155.00

PERMIT FEES: \$ 541.80

MATERIALS: \$3,226.83

**TOTAL AMOUNT DUE THIS INVOICE: \$10,471.70**

**TERMS: Due Upon Receipt**

# ENVIRONMENTAL EQUIPMENT SALES, INC.

Site Development/Water & Wastewater Systems/Underground Utilities/Industrial Construction

Post Office Box 2459  
Riverview, FL 33568

Page No. 1  
of 1 Pages  
PROPOSAL #1451

State Certified General Contractor #CG-C061731 (813) 677-6877 Phone  
State Certified Electrical Contractor #E13004251 (813) 677-2605 Fax

<b>PROPOSAL SUBMITTED TO:</b>		PHONE: 407-468-3268	DATE: April 7, 2016
NAME: MID COUNTY UTILITIES INC.		JOB NAME: Demo/Removal of Existing Office Trailer	
STREET: 11633 Paradise Point Way		STREET: 2299 Spanish Vistas Drive	
CITY/STATE/ZIP: New Port Richey, FL 34654		CITY: Dunedin	STATE: FL
CONTACT NAME: Mike Wilson, Regional Manager		EMAIL: mawilson@uiwater.com	

We propose to provide all labor, material and equipment necessary to demo/remove existing office trailer remove from site.

## Work to Proceed as Follows:

- 1) Provide demo permit from Pinellas County.
- 2) Haul off and remove existing trailer from site. Trailer to become property of E.E.S.I. upon removal from site.

QUOTE-Work to be completed complete in accordance with the above specifications for the sum of: Two Thousand One Hundred Dollars and 00/100 (\$2,100.00) with Terms: Net 15 Days.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above and estimate. All agreements are contingent upon strikes, accidents or delays at beyond our control. This proposal subject to acceptance within 15 days and is void thereafter at the option of the undersigned. Delinquency charges of 1½% per month will apply for all delinquent invoices. Collection fees for delinquent accounts, including attorney/collection agency fees and expenses incurred by Environmental Equipment Sales, Inc. are the responsibility of the customer.

## ACCEPTANCE OF PROPOSAL

The above prices, specifications, and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

ACCEPTED

Date: 4/7/16

Signature: 

PATRICK C. FLYNN, VP  
Print Name & Title

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Brian K. Spicher, President  
Environmental Equipment Sales Inc.





# Pinellas County Notification Form

## DEMOLITION PROJECT

Air Quality Division  
509 East Avenue South, Ste. 138 Clearwater, Florida 33756  
Phone: (727) 464-4422 Fax: (727) 453-3548  
AirQualityAsbestos@pinellascounty.org

N#

DEP#

I. Check at least one item for each type below, check additional items within a type if it applies:

Notice Type: ☒ Original ☐ Revision ☐ Revision # ☐ Cancellation ☐ On-hold ☐ Courtesy

Project Type: ☐ RACM Removal Complete ☒ No RACM Detected ☐ After-the-Fact Notice (2) ☐ Unsound Structure (1)

Facility Type: ☒ NESHAP Applicable ☐ Residential Exempt ☐ Four or fewer Apt. Units ☐ School/University/ College

II. Facility Name: Mid County Services - Wastewater Treatment Facility Office Trailer

Address 2299 Via Dorado

Parcel ID: 19/28/16/0000/240/0300

City: Dunedin

County: Pinellas

Zip: 33761

Bldg. Description: Metal Single Wide Trailer

Bldg. Size (Sq. Ft.): 480

Bldg. Details: # of Bldgs. 1 # of Floors 1 Age (Yrs): 15 Prior Use: Office Trailer

III. Start Date: 5/25/16 Finish Date: 6/1/16 Daily Work Hours: 7:00am-5:00pm ☐ Weekends

IV. Emission Controls/Procedures/Amounts of Asbestos/Fee (check or complete all items that apply):

☐ WATER ☐ BULLDOZER/HEAVY EQUIP. ☐ WRECKING BAI ☐ EXPLOSIVES ☐ FIRE TRAINING ☐ RECYCLING ☐ OTHER

Procedures used if unexpected RACM is found or created: ☐ Stop/Wet RACM/Call Air Quality/Revise Notice

Fee Schedule Bldg Size Square Feet	Actual Bldg. Size SqFt	Fee Schedule Amount	Fee Due	Make check payable to "PCBCC"
See Fee Schedule On Page 2	480	1 Portable Structure	\$50	

Cat I & II Asbestos Material	CAT I SF	CAT I LF	CAT II SF	CAT II LF	Describe Asbestos Material
* Cat I or II asbestos that will not be removed prior to demolition.					
Cat I or II asbestos that will be removed prior to demolition.					

\* Please Note: For any Cat II asbestos that will not be removed prior to demolition, all provisions contained within the asbestos NESHAP must be addressed, and the required procedures must be in place to control/abate any RACM, which will be created.

V. Fee Receipt (check one) Mail To: ☒ Demolition Contractor ☐ Facility Owner ☐ Other (Name and Address attached)

VI. I certify that the above information is true and correct to the best of my knowledge.

Signature and Date:  5/11/16

Print Full Name: Brian Spicher, President Environmental Equipment Sales, Inc.

Signature made by: ☒ Demolition Contractor ☐ Facility Owner ☐ Other (Name and Address attached)

Contact Fax #: 813-677-2605

Contact Phone #: 813-677-6877

Contact e-mail: colleen@enviroesinc.com

Contact Name: Colleen Kleist

(1) UNSOUND STRUCTURE - If the facility is being demolished under an order of a State or local government agency, issued because the facility is structurally unsound and in danger of imminent collapse. A copy of the order shall be attached to the notification. The name, title, and authority of the State or local government representative who has ordered the demolition, the date that the order was issued, and the date on which the demolition was ordered to begin must be included. (2) After-the-fact notifications are double the normal fee.

DEP#

Pinellas County Notification Form (Page 2)

N#

**VII. Asbestos Consultant:** Air Quality Environmental Inc

Consultant Lic.#: AX0000043

Asbestos Detection/Analytical Procedures: ☒ Thorough Asb. Insp./Asb. Survey ☐ PLM ☐ Point Count ☐ Other**VIII. Facility Owner:** Mid County Services c/o Utilities Inc

Address: 2335 Sanders Road

City: Northbrook

State: IL

Zip: 60062-6196

Contact Name: Mike Wilson

Phone: 407-468-3268

**IX. Demolition Contractor:** Environmental Equipment Sales, Inc.

Address: PO Box 2459

City: Riverview

State: Florida

Zip: 33568

Contact Name: Brian Spicher or Colleen Kleist

Phone: 813-677-6877

Contr. Lic.# CGC-061731

PCCLB # I-CGC061731

Is this project exempt from licensure under section 469.004(7) F.S.? ☐ Yes**X. Landfill:** N/A**Class:**

City:

County:

State: Florida

Contact Name:

Phone:

Transporter #1:

Phone:

Transporter #2:

Phone:

RECYCLING? ☐ : YES If yes, then where?:**Fee Requirements**

1. Building size < or = 2000 sq. ft. \$360.00
2. Building size >2,000 and <5,000 sq. ft. \$480.00
3. Building size 5,000 - 24,999 sq. ft. \$600.00
4. Building size 25,000 - 49,999 sq. ft. \$840.00
5. Building size 50,000 - 74,999 sq. ft. \$1,080.00
6. Building size 75,000 - 99,999 sq. ft. \$1,320.00
7. Building size 100,000 sq. ft. and greater \$1,440.00

8. After-the-fact notifications - **double the normal fee**9. A late revision to a notification is **\$250**.

10. Demolition - Portable commercial structure relocation: the removing from a foundation of any mobile or portable public or commercial structure. The intent is not to destroy or dismantle the structure, but to take out load stabilizing supports to re-support with same, at a new location. (Public or commercial mobile or portable structures include but are not limited to modular buildings, modular offices, portable buildings, and construction trailers). **\$50/Structure**

- The notification will not be accepted without the appropriate fee.

- A separate notification and fee are required for renovations and demolitions.

- If in the course of a demolition or renovation it is determined that the project belongs in a higher fee category than was initially determined, an owner or operator shall re-notify Air Quality and pay the balance of the fee for the higher category.

- The Department's fee requirements are not applicable when the NESHAP demolition or asbestos removal project is in a school, college, university, or a residential dwelling, as residential dwelling is defined in Rule 62-257.200, F.A.C





**Air Quality Environmental, Inc.**  
*Environmental Consultants & Laboratory Services*

9325 Seminole Boulevard, Seminole, Florida 33772 (727) 398-0900 FAX (727) 398-0996

Air Quality Environmental Job# 36391  
**Limited Asbestos Survey Report**

May 9, 2016

Report addressed to:

Ms. Candy LaTourette  
Environmental Equipment Sales Inc.  
PO Box 2459  
Riverview, Florida 33568-2459

Dear Ms. LaTourette,

At your request, AQE AHERA accredited Building Inspector Erich Paltian conducted a site visit at the Mid County (trailer) facility located at 2299 Spanish Vista Drive, Dunedin, Florida 34698. This site inspection was performed on May 6, 2016. The purpose of the walkthrough was to evaluate the potential for asbestos issues potentially associated with a demo (relocation) of a manufactured home / trailer. The scope of work included the relocation of a 12x40 metal single wide trailer. At the time of AQE's arrival at the facility no suspect ACM materials were observed that would be impacted during relocation activities. The facility is atop steel I-beams and concrete masonry blocks. Based on the scope of work that was explained to this inspector, no suspect ACM materials were observed therefore, no sampling was performed.

If any potentially asbestos-containing building materials are observed during relocation activities that are likely to be disturbed as a result of the scheduled demolition (relocation), or if any future renovations/demolitions are to be performed, an additional inspection / asbestos survey would be required.

Sincerely,

Erich Paltian  
AHERA Asbestos Inspector / Supervisor

Steven A. Lipson, CIH, CSP  
FL Asbestos Consultant #AX-43

*Member: National Environmental Health Association, American Industrial Hygiene Association, Pan American Aerobiology Association and the Indoor Air Quality Association*  
*Partner with the U.S. Environmental Protection Agency in establishing Indoor Air Quality guidelines and protocol*

Additional information can be found on our website: [www.AirQualityEnvironmental.com](http://www.AirQualityEnvironmental.com)

Asbestos Online Training, LLC

13987 94<sup>th</sup> Avenue N Seminole, FL 33776

727-593-3067

Asbestos Survey & Mechanical (AHERA Building  
Inspector) Refresher Training

This is to certify that

Erich Paltian

Training was in accordance with Title II of TSCA, 40 CFR  
Part 763. Appendix C to Subpart E as revised

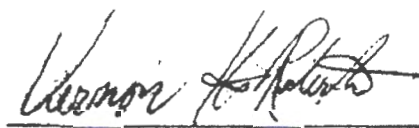
Date of Course Examination 1/4/16

Date of Course Completion 1/4/16

Expiration Date 1/4/17

Certificate # 1416350

Course # FL-490006359 Provider # FL-490005406



INSTRUCTOR



STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT  
1940 NORTH MONROE STREET  
TALLAHASSEE FL 32399-0783

(850) 487-1395

LIPSON, STEVEN ANDREW  
AIR QUALITY CONSULTING INC  
1713 SOUTH KINGS AVENUE  
BRANDON FL 33511

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STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND  
PROFESSIONAL REGULATION

AX0000043

ISSUED: 10/15/2014

ASBESTOS CONSULTANT  
LIPSON, STEVEN ANDREW  
AIR QUALITY CONSULTING INC

IS LICENSED under the provisions of Ch 469 FS  
Expiration date: NOV 30, 2016 L1410150003012

DETACH HERE

RICK SCOTT GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION  
ASBESTOS LICENSING UNIT

LICENSE NUMBER	
AX0000043	

The ASBESTOS CONSULTANT  
Named below IS LICENSED  
Under the provisions of Chapter 469 FS.  
Expiration date: NOV 30, 2016

LIPSON, STEVEN ANDREW  
AIR QUALITY CONSULTING INC  
1713 SOUTH KINGS AVENUE  
BRANDON FL 33511





STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT  
1940 NORTH MONROE STREET  
TALLAHASSEE FL 32399-0783

(850) 487-1395

AIR QUALITY ENVIRONMENTAL INC  
STEVEN A LIPSON  
9325 SEMINOLE BOULEVARD  
SEMINOLE FL 33772

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STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND  
PROFESSIONAL REGULATION

ZA361

ISSUED 10/22/2015

ASBESTOS BUSINESS ORGANIZATION  
AIR QUALITY ENVIRONMENTAL INC  
STEVEN A LIPSON

IS LICENSED UNDER THE PROVISIONS OF CHAPTER 469 FS

Expiration date: NOV 30, 2017

DETACH HERE

RICK SCOTT GOVERNOR

KEN LAWSON SECRETARY

STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION  
ASBESTOS LICENSING UNIT

LICENSE NUMBER

ZA361

The ASBESTOS BUSINESS ORGANIZATION  
Named below IS LICENSED  
Under the provisions of Chapter 469 FS  
Expiration date: NOV 30, 2017

AIR QUALITY ENVIRONMENTAL INC  
STEVEN A LIPSON  
9325 SEMINOLE BOULEVARD  
SEMINOLE FL 33772



ISSUED 10/22/2015

DISPLAY AS REQUIRED BY LAW

SEQ # L1510220002836





Runco Office Supply  
1655 Elmhurst Rd  
Elk Grove Village, IL 60007

Phone: 847-437-4300 Fax: 847-437-4455  
Email: runco@runcoonline.com www.runcoofficesupply.com

Batch \_\_\_\_\_

Doc \_\_\_\_\_

# INVOICE

INVOICE NUMBER 647154-0

INVOICE DATE 04/19/16

ACCOUNT NUMBER 96303

DEPT NUMBER 0049

BILL TO ADDRESS			SHIP TO ADDRESS		
UTILITIES, INC.  2335 SANDERS RD. NORTHBROOK IL 60062 727-787-7978			MID-COUNTY SERVICES, INC. ATTN: MIKE WILSON 2299 SPANISH VISTA DRIVE DUNEDIN FL 34698		
CUSTOMER PURCHASE ORDER	SALESPERSON	TERMS	ROUTE	PAYCODE	ORDER TAKER
250100	MATT BERARDI	NET 30	9	CHARGE	120

Pinellas

ITEM NUMBER	MFG	ITEM DESCRIPTION	UM	ORD QTY	B/O QTY	SHIP QTY	SELL PRICE	EXTEND PRICE
50056	SAF	CLAMP, HANGING, 42", ALUM/BLK	CT	1		1	259.00	259.00
FREIGHT	RUN	FREIGHT		1		1	.00	.00
							RECEIVED	
							APR 21 2016	

Please remit to:  
Runco Office Supply  
P.O. Box 2673  
Des Plaines, IL 60017-2673

Subtotal 259.00

Tax

Total Due 259.00





LOWE'S HOME CENTERS, LLC  
26990 US HIGHWAY 19 N  
CLEARWATER, FL 33761 (727) 724-3557

- SALE -

SALES#: S0771JF2 2010078 TRANS#: 96466069 05-05-16

173287 KC 24 INX30 IN BROOKTON W	288.80
152.00 DISCOUNT EACH	7.60
2 @ 144.40	
377718 KL 24-IN BROOKTON LANA CA	192.85
203.00 DISCOUNT EACH	-10.15
128817 KC 15-INX30-IN BROOKTON W	224.20
118.00 DISCOUNT EACH	-5.90
2 @ 112.10	
687951 RESIN UTILITY CABINET	75.05
79.00 DISCOUNT EACH	-3.95
209963 KC 36-INX30-IN BROOKTON W	385.70
203.00 DISCOUNT EACH	-10.15
2 @ 192.85	
4511 1-2-8 PREMIUM FURRING STR	0.82
0.86 DISCOUNT EACH	-0.04

SUBTOTAL: 1,167.42

TAX: 81.72

INVOICE 58178 TOTAL: 1,249.14

LAR: 1,249.14

TOTAL DISCOUNT: 61.44

LAR:XXXXXXXXXX4164 AMOUNT:1,249.14 AUTHCD:000791

SWIPE REFID:461181 05/05/16 12:34:40

LAR PD: 250 100

ACCOUNT NAME:

UTILITIES INC OF FLORIDA

AUTH BUYER: NEAL LEE

ACCOUNT WILL BE BILLED UPON MERCHANDISE TRANSACTION  
DATE FOR STOCK MERCHANDISE AND NO LATER THAN 90 DAYS  
FROM TRANSACTION DATE FOR SOS OR DIRECT DELIVERY  
MERCHANDISE.

STORE: 0771 TERMINAL: 58 05/05/16 12:34:51

# OF ITEMS PURCHASED: 9

EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS



THANK YOU FOR SHOPPING LOWE'S.  
SEE REVERSE SIDE FOR RETURN POLICY.  
STORE MANAGER: PAUL E JOHNSON

WE HAVE THE LOWEST PRICES, GUARANTEED!  
IF YOU FIND A LOWER PRICE, WE WILL BEAT IT BY 10%.  
SEE STORE FOR DETAILS.

**Thank you for shopping with us.**

We are processing your order and will send you an email notification when it ships. Due to product availability or size, your **order will arrive in multiple** shipments.





Shipping confirmation emails will provide details on all shipments.

In addition, one or more items will ship directly from our supplier. The ship date and estimated order arrival date will be supplied by email.

For your reference, below is a summary of your order:

**Shipment 1** Expected delivery date: **04/04/2016 8:30 AM - 5:00 PM**

Order Number:	832142348-001	Status:	Ready to be loaded
Order Date:	03/31/2016	Tracking:	N/A
Customer Name:	PATRICK FLYNN	Shipping to:	PATRICK FLYNN 2299 SPANISH VISTAS DR
Account #:	60223083		
Payment info:	MasterCard, last 4 digits: 5329		DUNEDIN, FL 34698-9438
Comments:		Delivery Method:	Standard Shipping

ITEM DESCRIPTION	QTY	AVAILAB LE	B/O Qty	UNIT PRICE	UM	EXTENDED PRICE
HON® Metro Classic Double-Pedestal Desk, 60" x 30", Mahogany/Charcoal (486718)    FURNITURE DELIVERY	3	3	0	\$659.990	each	\$1,979.97
\$40 Off Your Qualifying Purchase (83842664) 	1	1	0	\$(16.260)		\$(16.26)

HON® Brigade® Steel Bookcase, 4 Shelves, 59"H x 34 1/2"W x 12 5/8"D, Charcoal (388901)	3	3	0	\$224.990	each	\$674.97
--	---	---	---	-----------	------	----------



FURNITURE DELIVERY

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(5.540)		\$(5.54)
--	---	---	---	-----------	--	----------



Realspace® 4-Drawer File Cabinet, 46 3/8"H x 14 1/4"W x 18"D, 30% Recycled, Metallic Charcoal (940511)	2	2	0	\$157.990	each	\$315.98
--	---	---	---	-----------	------	----------



FURNITURE DELIVERY

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(2.590)		\$(2.59)
--	---	---	---	-----------	--	----------



Quartet® Natural Cork Bulletin Board With Anodized Aluminum Frame, 36" x 60" (919779)	1	1	0	\$109.990	each	\$109.99
---	---	---	---	-----------	------	----------

FURNITURE DELIVERY

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(0.900)		\$(0.90)
--	---	---	---	-----------	--	----------



LEGEND

Subtotal: 3080.91

Tax: 213.90

QTY:	Original Quantity Ordered	Furniture Delivery Fee:	69.99
AVAILABLE:	Ordered Quantity - Backorder Quantity	Misc.:	(25.29)
B/O Qty:	Backorder Quantity		
UNIT PRICE:	Price per Individual Unit	<b>Total:</b>	<b>\$3339.51</b>
UM:	Unit of Measure		
EXTENDED PRICE:	Ordered Quantity x Unit Price		

Expected delivery date: **04/11/2016**

Order Number:	832142704-001	Status:	In Process
Order Date:	03/31/2016	Tracking:	N/A
Customer Name:	PATRICK FLYNN	Shipping to:	PATRICK FLYNN 2299 SPANISH VISTAS DR
Account #:	60223083		
Payment info:	MasterCard, last 4 digits: 5329		DUNEDIN, FL 34698-9438
Comments:		Delivery Method:	Standard Shipping

ITEM DESCRIPTION	QTY	AVAILABLE	B/O Qty	UNIT PRICE	UM	EXTENDED PRICE
Flash Furniture Square Table Set With 4 Metal Chairs, Mahogany/Black (621422)	2	2	0	\$359.990	each	\$719.98
\$40 Off Your Qualifying Purcha	1	1	0	\$(5.910)		\$(5.91)

(83842664)



LEGEND

QTY: Original Quantity Ordered  
AVAILABLE: Ordered Quantity - Backorder Quantity  
B/O Qty: Backorder Quantity  
UNIT PRICE: Price per Individual Unit  
UM: Unit of Measure  
EXTENDED PRICE: Ordered Quantity x Unit Price

Subtotal: 719.98  
Tax: 49.98  
Delivery Fee: 0.00  
Misc.: (5.91)  
  
**Total: \$764.05**

**Shipment 3** Expected delivery date: **04/01/2016 8:30 AM - 5:00 PM**

Order Number:	832142705-001	Status:	Ready to be loaded
Order Date:	03/31/2016	Tracking:	N/A
Customer Name:	PATRICK FLYNN	Shipping to:	PATRICK FLYNN 2299 SPANISH VISTAS DR
Account #:	60223083		
Payment info:	MasterCard, last 4 digits: 5329		DUNEDIN, FL 34698-9438
Comments:		Delivery Method:	Standard Shipping

ITEM DESCRIPTION	QTY	AVAILABLE	B/O Qty	UNIT PRICE	UM	EXTENDED PRICE
Safco® Mobile Hanging Flat File Stand, Tropic Sand	1	1	0	\$469.990	each	\$469.99



(904060)



\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(3.860)		\$(3.86)
--	---	---	---	-----------	--	----------



Post-it® Sticky Cork And Non- Magnetic Dry- Erase Combination Board, 22" x 34" (874879)	1	1	0	\$89.990	each	\$89.99
--	---	---	---	----------	------	---------

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(0.740)		\$(0.74)
--	---	---	---	-----------	--	----------



Lorell Radio Controlled Wall Clock - Analog - Quartz - Atomic (233982)	3	3	0	\$29.990	each	\$89.97
--	---	---	---	----------	------	---------

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(0.740)		\$(0.74)
--	---	---	---	-----------	--	----------



Duracell® CopperTop MN1500B4Z Alkaline General Purpose AA	1	1	0	\$5.690	each	\$5.69
---	---	---	---	---------	------	--------

Batteries, Pack Of  
4 (395604)

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(0.050)		\$(0.05)
--	---	---	---	-----------	--	----------



Deflect-O® Clear Polycarbonate Chair Mat For Hard Floors, 36"W x 48"D (671787)	3	3	0	\$54.390	each	\$163.17
--	---	---	---	----------	------	----------



\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(1.340)		\$(1.34)
--	---	---	---	-----------	--	----------



Genuine Joe 99% Recycled EcoGuard Eternity Indoor Floor Mat, 3'W x 5'L, Charcoal Gray (154458)	2	2	0	\$76.490	each	\$152.98
---	---	---	---	----------	------	----------

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(1.260)		\$(1.26)
--	---	---	---	-----------	--	----------



LEGEND



Subtotal: 971.79

Tax: 67.47

QTY:	Original Quantity Ordered	Delivery Fee:0.00
AVAILABLE:	Ordered Quantity - Backorder Quantity	Misc.: (7.99)
B/O Qty:	Backorder Quantity	
UNIT PRICE:	Price per Individual Unit	<b>Total: \$1031.27</b>
UM:	Unit of Measure	
EXTENDED PRICE: Ordered Quantity x Unit Price		

**Shipment 4** Expected delivery date: **04/04/2016 8:30 AM - 5:00 PM**

Order Number:	832142706-001	Status:	In Process
Order Date:	03/31/2016	Tracking:	N/A
Customer Name:	PATRICK FLYNN	Shipping to:	PATRICK FLYNN 2299 SPANISH VISTAS DR
Account #:	60223083		
Payment info:	MasterCard, last 4 digits: 5329		DUNEDIN, FL 34698-9438
Comments:	Delivery Method: Standard Shipping		

ITEM DESCRIPTION	QTY	AVAILABLE	B/O Qty	UNIT PRICE	UM	EXTENDED PRICE
Office Depot® Brand 50% Recycled TireTuff Royale High-Traffic Entrance Mat, 36" x 60", Onyx (659900)  	2	2	0	\$49.490	each	\$98.98

\$40 Off Your Qualifying Purcha (83842664)	1	1	0	\$(0.810)	\$(0.81)
--	---	---	---	-----------	----------



LEGEND

QTY: Original Quantity Ordered

AVAILABLE: Ordered Quantity - Backorder Quantity

B/O Qty: Backorder Quantity

UNIT PRICE: Price per Individual Unit

UM: Unit of Measure

EXTENDED PRICE: Ordered Quantity x Unit Price

Subtotal: 98.98

Tax: 6.87

Delivery Fee: 0.00

Misc.: (0.81)

**Total: \$105.04**

Expected delivery date: **04/08/2016**

Order Number: 832142707-001	Status: In Process
Order Date: 03/31/2016	Tracking: N/A
Customer Name: PATRICK FLYNN	Shipping to: PATRICK FLYNN
Account #: 60223083	2299 SPANISH VISTAS DR
Payment info: MasterCard, last 4 digits: 5329	DUNEDIN, FL 34698-9438
Comments:	Delivery Method: Standard Shipping

ITEM DESCRIPTION	QTY	AVAILABLE	B/O Qty	UNIT PRICE	UM	EXTENDED PRICE
APC® Back-UPS® ES 350VA Battery	3	3	0	\$49.990	each	\$149.97

Backup (277408)



APC Essential	4	4	0	\$12.490	each	\$49.96
SurgeArrest P6W						
6-Outlet Surge						
Suppressor						
(378029)						

LEGEND

QTY: Original Quantity Ordered  
AVAILABLE: Ordered Quantity - Backorder Quantity  
B/O Qty: Backorder Quantity  
UNIT PRICE: Price per Individual Unit  
UM: Unit of Measure

EXTENDED PRICE: Ordered Quantity x Unit Price

Subtotal: 199.93

Tax: 14.00

Delivery Fee:0.00

Misc.: 0.00

**Total: \$213.93**

You can now [track delivery](#) of your order online. Enter the order number shown in this email, or go to [Order Tracking](#) at OfficeDepot.com and log in to track delivery of your order by entering your order number in combination with either your telephone number or account number

Normal deliveries to business addresses are made between the hours of 8:30 AM and 5:00 PM, and to residential addresses between 8:30 AM and 7:00 PM

Got a question? We're taking care of business every day, and we're ready to help: Call 800.GO.DEPOT (800-463-3768) or [email us](#) and one of our Customer Service Specialists will provide prompt answers to all your questions.



## Recommended for you

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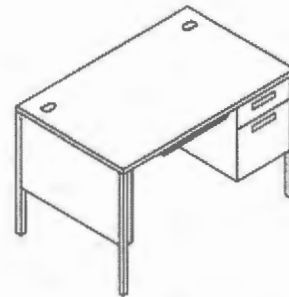
WorkPro® 15000  
Series Big & Tall High-  
Back Chair, Black/Silver

**\$349<sup>99</sup>** / Each



HON® 510 Series 25"D  
4-Drawer Letter-Size  
Vertical File Cabinet...

**\$263<sup>99</sup>** / Each



HON® Metro Classic  
Single-Pedestal Desk,  
Mahogany/Charcoal

**\$536<sup>99</sup>** / Each



HON  
Book  
29"H

**\$12**

This sale is subject to the [terms of use](#) that govern this website. We reserve the right to cancel or limit any order that is made contrary to any applicable offer, discount, promotion or coupon. Please be advised that prices vary based upon the order and delivery location(s) and the applicable retail store location.

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**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-16**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #:

Requested by:

Mike Wilson

Date:

9/9/2015

Project Manager / Area Manager

Project Name:

MC Collection System Eval

Company:

250

Mid-County Services Inc

Business Unit:

250100

Mid-County Services Inc

Project Owner:

Patrick Flynn

BU Type:

SP

Project Manager:

Mike Wilson

Budget Owner / RVP:

John Hoy

03

Start Date:

9/17/2015

Q3 2015

Region:

Florida

04

Estimated End Date:

12/31/2015

Q4 2015

State:

FL

Project Type:

EH&amp;S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

\$0

This Request:

\$60,379

Still to be Requested:

TBD

Total Project Budget:

\$60,379

## Description:

The project is designed to collect gravity flow data at 16 discrete manhole locations encompassing the Mid-County collection system over a two-month period. The MH sites include locations where flow from mobile home parks enters the utility's collection system as well as measuring flow from discrete sub-basins in order to quantify dry and wet weather flow in real time as rainfall events impact the collection system due to stormwater runoff, illegal connections, inflow, and infiltration.

The project consists of the following elements:

1. 10 each Hach FloDar open channel flow meters w/wireless data transmission, two-month lease
2. 6 each Hach Sub AV open channel flow meters w/wireless data transmission, two-month lease
3. 1 each digital rain gauge, two-month lease, installation, calibration and data transmission
4. Installation, calibration and extraction of flow meters, 16 specified locations including confined space entry (equipped & trained)
5. Customer support, equipment and software training, 24/7 access to customer data using Hach software, technical support

The flow and rainfall data will be analyzed using the provided software to identify the response of the collection system to significant as well as minor rain events. It is likely that additional equipment and techniques will be used subsequently to identify blockages, pipe and lateral failures, illegal connections, and other deficiencies that will then be addressed.

## Timeline Considerations:

It is imperative that this analysis take place during the current wet weather season to properly evaluate where the Inflow and Infiltration is generated.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Engineering project number

(If applicable)

**Justification and Benefits:**

The purpose of this project is to evaluate the Mid-County wastewater collection system to determine the location and severity of excess inflow and infiltration that occurs during severe wet weather conditions. The Mid-County customer base includes eight (8) MHP's whose sewer infrastructure is owned and maintained in whole or in part by those MHP's.

Locating and then fixing the sources of excess inflow and infiltration will allow for optimal use of existing permitted treatment capacity instead of investing capital to expand the plant's current capacity. By locating and documenting the source of excess I&I caused by poorly maintained privately owned collection systems in individual MHPs, the data will offer the information needed to impose surcharges on those properties contributing excess flow or to collect additional capacity fees commensurate to the flows generated from those MHPs in wet weather. In addition, it will also allow the utility to make timely and prudent improvements to the utility's facilities where appropriate and beneficial in order to maintain adequate level of service, avoid SSO's, and operate efficiently.

Mid-County WWTP's permitted capacity is 0.900 mgd. During recent major rain events, the plant's flow exceeded 1.700 mgd reflecting the maximum pumping capacity of the master lift station that does not result in solids washing out of the facility. Heavy wet weather flows surcharge the collection system resulting in SSO's at certain locations.

**Risk Evaluation**

During the month of July there were 8 days where the ADF exceeded 1.2 mgd and the ADF for the month of July was 0.916 mgd, exceeding the Mid-County WWTP's permitted capacity of 0.900 mgd. This was a result of excessive I & I in the collection system. In August there were 28 days that exceeded 0.900 mgd with an average monthly flow of 1.097 mgd. These elevated flows caused by excess I & I overload the plant's treatment capacity and risk the potential (although low) for FDEP enforcement action at this facility if it was to continue for multiple months.

**Alternatives Considered:**

Cured in place repairs where required.  
Slip lining where required.  
RedZone camera deployment.

**Technical Review Summary:**

## Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	60,379				
Project Spend in Current Plan					
Variance	(60,379)	-	-	-	-
CIAC Collected					
Net Rate Base	60,379	60,379	60,379	60,379	60,379

(if applicable)

## O&M Cost Impact B/(W)

--	--	--	--	--	--

## Financial Justification

Deficiencies discovered as a result of this investigation will be corrected resulting in O&M reductions not yet quantifiable.

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(3)	(3)
2,194	2,194

## Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(503)	(2,013)	(2,013)	(2,013)	(2,013)
Under-recovery on capital B/(W)	(4,491)	(4,340)	(4,189)	(4,038)	(3,887)
Net EBIT Impact B/(W)	(4,994)	(6,352)	(6,201)	(6,050)	(5,900)

## Timing and Supporting Information on Rate Recovery

Mid-County Services is not scheduled for a rate filing in the next two years. However, if this collection system evaluation identifies deficiencies to be addressed thereafter, cost options would be evaluated and then brought before the CPRT for consideration in the context of requesting additional funds to fix the problems. The combined cost of the collection system evaluation and the deficiency corrections would most likely be recovered in a limited proceeding to be filed once the project has been completed.

## Regulatory Plan Implications

A limited proceeding rate case can be filed at any time after the project is completed and at less cost than a typical rate case. By itself, the collection system evaluation will be insufficient to trigger a filing.

## Assumptions



**BID INFORMATION AND BUDGET BREAKDOWN**Have three bids been received? 

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Avanti - Hach - Water Resource Technologies	\$54,890	Yes
2			
3			

**Component:****Amount**

Value Bid Elements

54,890.00 should equal Total Budget on General Information

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Contingency 10%

5,489.00

**Total Project Budget****60,379.00** should equal Total Budget on General Information**Object Account(s) to which project will be closed:**

1350

n/a

Sewer Gravity Main/Manholes

Not Applicable

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)**General Comments:**

Initial budget amount is less than the \$75,000 threshold that would otherwise trigger the solicitation of three or more bids.



## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Date Held

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by

Christie Kincaid

Date:

9/10/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Mike Wilson

Date:

9/9/2015

☒

VP Operations:

Patrick C. Flynn

Date:

9/9/2015

☒

President:

Date:

☐

### Approval or Re-Direction Comments

TECHNICAL PROPOSAL # 090215-01

**Hach Company**

## **DATA DELIVERY SERVICES (DDS)**

SELECT PROGRAM

**Utilities, Inc.**

Project: Mid County Open Channel Flow Meter I&I Analysis

**September 2, 2015**



Be Right™

## DATA DELIVERY SERVICES

Service Order Form No. 090215-01  
September 2, 2015

Customer: Utilities, Inc.  
Customer P.O.#:

**Bill to**

Customer contact: Mike Wilson  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

Phone: 407-468-3268  
Mobile:  
Email: mawilson@uniwater.com

**Ship to**

Customer contact:

Phone:  
Mobile:  
Email:

**ORDER DESCRIPTION:**

Qty	Service P/N	Instrument/ Description	Duration (months)	List Price	Unit	Selection (Initial)
10	DDS-SL3-UST	FloDar / FL904	2	\$1,260	Per Meter / Mo.	
6	DDS-SL3-UST	SubAV* / FL904	2	\$1,260	Per Meter / Mo.	
1	DDS-SL3-UST-RG	Rain Gauge	2	\$760	Per RG / Mo.	

\* SubAV's require 8" mounting bands/clips.

DESCRIPTION OF SERVICES: Refer to Technical Proposal and Agreement 090215-01 dated September 2, 2015

TERMS AND CONDITIONS: As stated in the Subscriber License and Data Delivery Services Agreement

**SPECIAL OR ADDITIONAL TERMS AND CONDITIONS:**

- 1) Customer is responsible for installation, maintenance, and removal of all equipment.
- 2) If equipment malfunctions during the deployment period, HACH COMPANY will send replacement equipment to the Customer. HACH COMPANY is not liable or obligated to reimburse Customer for labor expenses incurred as a result of equipment failure.
- 3) Customer is responsible for cleaning the equipment of any and all contaminants before returning the equipment to HACH COMPANY. Such cleaning should consist of removing all visible solid soils from the equipment and washing the equipment with a suitable cleaning agent such as "Simple Green" cleaning solution and water. Customer agrees to pay a cleaning fee to HACH COMPANY if the equipment is not returned in clean condition. Such cleaning fee will be proportional to the amount of labor required to clean the equipment of all contaminants.
- 4) All prices listed are in U.S. Dollars.

Each person signing this Service Order Form represents that he/she intends to and has the authority to bind his/her respective party to this Agreement.

IN WITNESS WHEREOF, the parties by their authorized representatives have signed this Service Order Form No. 090215-01 as of September 2, 2015, (the "Effective Date").

HACH COMPANY

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

CUSTOMER

Signature: *Patrick C. Flynn*

Name: PATRICK C. FLYNN

Title: VICE PRESIDENT

Date: 9/9/15



## TABLE OF CONTENTS

DDS PROJECT SUMMARY

DETAILED TECHNICAL PROPOSAL

SPECIFICATIONS OF FLOWMETER EQUIPMENT

TERMS AND CONDITIONS FOR SUBSCRIBER LICENSE  
AND DATA DELIVERY SERVICES

APPENDIX A: CUSTOMER/PROJECT DETAILS

## DDS PROJECT SUMMARY

### Hach Deliverables:

- Delivery of factory calibrated flow instruments and communications equipment as specified
- Customer training on FSDATA software navigation and features, including report generation
- Secure 24/7 access to customer data on Hach's FSDATA software, viewable via standard web browsers (i.e., Internet Explorer)
- Technical support by phone (800-368-2723) as needed

### Customer Responsibilities:

- Designate a shipping address to receive the meters
- Identify one individual as customer administrator, and up to 5 authorized users for access to secure flow data
- Supply computer and internet connectivity to access FSDATA software
- Generate reports utilizing FSDATA software as required by the project

When ready to move forward with your project, please scan and email or fax the signed Service Order form to:

[dds@hach.com](mailto:dds@hach.com)

Fax: 970-619-5150

Alternatively, if you prefer hard copies, please mail two (2) copies of the signed Service Order form to:

Hach Company  
Attn: Hach Flow, DDS Orders  
5600 Lindbergh Dr  
Loveland, CO 80503  
800-368-2723

Hach Company will return a fully executed copy to you in the same manner by which yours was submitted.

Water Resource Technologies  
11221 St. Johns Industrial Parkway North  
Jacksonville, FL 32246  
(904) 928-0700



# Invoice

Date	Invoice #
9/30/2015	20151463

**Bill To**

Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

**Ship To**

Job Name: HACH DDS Installations

S.O. No.	P.O. No.	Terms	Rep	Ship Date	Ship Via	Contact #
		C.O.D.	NAW	9/22/2015	WRT Truck	321-972-0374
Item	Description	Quantity	Rate	Amount		
WRT-MISC	Installation & Removal of HACH Flo-Dar Equipment	10	875.00	8,750.00T		
WRT-MISC	Installation & Removal of HACH Sub AV Equipment	6	650.00	3,900.00T		
WRT-MISC	Installation & Removal of HACH Rain Gauge	1	400.00	400.00T		

Please Remit Payment To: 11221 St. Johns Industrial Parkway North  
Jacksonville, FL 32246

**Subtotal** \$13,050.00

**Sales Tax (7.0%)** \$913.50

**Total** \$13,963.50

Phone #	Fax #	Web Site	Payments/Credits	
( 877 ) 978-4286	( 904 ) -928-0790	www.wrtllc.com	<b>Balance Due</b>	\$13,963.50



Water ReSource Technologies, LLC  
11221 St. Johns Industrial Pkwy North  
Jacksonville, FL 32246  
Toll free ph/fax (877)978-4286  
nabbatiello@wrtllc.com  
Cell: 904-718-2003

**Attention:** Mike Wilson – Utilities, Inc. – Dunedin Job

**Subject:** Quotation for HACH Flow Product Installation & Removal

**Date:** 9/3/2015

### **Flo-Dar installation & removal for (10) Sites**

- (1) Mobilization of technicians to complete the project.
- (2) Technicians for installation of Hach Flo-Dar.
- (1) Confined Space entry & supervision.
- (1) Our blower, gas-meter, tri-pod and other equipment necessary for Confined Space entry
- (1) Calibration of Hach Flo-Dar & confirmation while on site with Hach customer support.
- (1) Materials required to fasten equipment within manhole & small section cutting & patching of concrete (directly adjacent to manhole)
- (2) Technicians for removal of Hach Flo-Dar

- **Install & Removal: \$875.00 per manhole/flo-dar**
  - Removal – Scheduled in advance based on duration of contract

### **Sub-AV installation & removal for (6) Sites**

- (2) Technicians for installation of Hach Sub-AV Equipment.
- (1) Confined Space entry & supervision.
- (1) Our blower, gas-meter, tri-pod and other equipment necessary for Confined Space entry
- (1) Calibration of Hach Sub AV & confirmation while on site with Hach customer support.
- (1) Materials required to fasten equipment within manhole & small section cutting & patching of concrete (directly adjacent to manhole)
- (2) Technicians for removal of Hach Flo-Dar

- **Install & Removal: \$650.00 per manhole/Sub-AV**

### **Rain Gauge installation & removal for (1) site**

- (1) Installation & Calibration of Hach Rain gauge w/ logger.
- (1) Non-confined space entry. Pre-determined secure location required for proper installation of Rain Gauge. (Locked fenced area near lift station preferred)

- **Install & Removal: \$400.00 per site**

**Price does not include:**

- (1) Permit (if applicable)
- (2) Any permanent materials required for installation
- (3) Traffic control (if applicable) by others. If traffic control is required at an installation site, the site will be skipped and a separate proposal will be generated to accommodate for traffic control unless customer can provide.

**Note that price is dependent on the assumption that:**

- a) Equipment can be installed during normal business hours, on consecutive business days until the scope of work is completed.
- b) All Hach equipment will be onsite prior to mobilization. A complete list of manholes with material list shall be provided prior to starting work. All Hach materials to be received and checked prior to starting work to ensure all correct equipment is on hand.
- c) The client will allow work to be completed rain or shine (no threat of lightning)
- d) A representative of the end user must accompany WRT during installations.
- e) WRT to be on site to complete the scope of work within 2-3 business days after receiving the complete DDS equipment from Hach.

**Pricing Summary:**

Equipment	Quantity	Amount	Total
Flo-Dar	10	\$875.00	\$8,750.00
Sub A/V	6	\$650.00	\$3,900.00
Rain Gauge	1	\$400.00	\$400.00
Grand Total:			\$13,050.00

**Additional rates:**

- Battery replacement (includes mobilization & labor)
  - Confined space rate - \$350.00
  - Non-confined space - \$250.00
  - ***Batteries not included***
- Labor rate(s) for troubleshooting & other request
  - Service call out charge (includes mobilization & arrival to site) - \$150.00
  - Confined space entrant rate - \$135.00 per hour
  - Confined space supervisor rate - \$90.00 per hour
    - Confined space billed per tech (\$225 combined/hour)
  - Non Confined Space rate - \$90.00 per hour

**Terms:**

Terms of payment are cash, credit card, or company check upon delivery. Net 30 day terms are available with acceptable credit references. A 1.5% per month late charge will be assessed on all payments not made within agreed terms in writing. If this order is sent to collection, all legal and collection charges will be added to the responsibility of the buyer.

Please call with any questions; we look forward to working with you on this and future projects.

Nick Abbatiello  
Territory Manager  
Water Resource Technologies of Florida, LLC



# FLO-DAR® AV SENSOR

## Applications

- Wastewater
- Collection Systems
- Industrial Water



**The FLO-DAR® AV Sensor provides an ideal solution for non-contact, maintenance-free portable or permanent sewer flow monitoring.**

The FLO-DAR AV Sensor provides a revolutionary approach to open channel flow monitoring. It combines advanced Digital Doppler Radar velocity sensing technology with ultrasonic pulse echo depth sensing to remotely measure open channel flow. Use with the Hach FL900 Series Flow Loggers (wireless or standard) for portable monitoring. For permanent power application sites the FLO-DAR can be connected to the FLO-STATION. Intrinsically safe models are available.

## Accurate Flow Measurement

FLO-DAR provides the user with highly accurate flow measurements under a wide range of flows and site conditions. By measuring the velocity of the fluid from above, FLO-DAR eliminates accuracy problems inherent with submerged sensors including sensor disturbances, high solids content and distribution of reflectors.

## Non-Contact Sensor Eliminates Lost Data

No lost data with non-contact, above the flow sensor that is unaffected by fouling due to debris and grease.

## Easy Installation and Maintenance

As the sensor is mounted above the flow, personnel have little or no contact with the flow during installation. Future sensor removal and replacement can be done without the need for confined space entry.

## Independent Accuracy / Long-Term Stability Verification

FLO-DAR sensor accuracy and long-term stability (up to 3 years without need for site calibration) from low flow depths up to surcharge conditions has been independently verified many times over the years including a formal evaluation by the Alden Research Laboratory, Inc. and recent field evaluations done by municipalities and consulting engineering firms.

## Perfect Solution for Difficult Flow Conditions

Operates in the most difficult conditions including flows with high solids content, high temperature, shallow and caustic flows, large man-made channels, and high velocities up to 20 ft/s.

## Optional Surcharge Velocity Sensor (SVS)

During surcharge events FLO-DAR's optional SVS electromagnetic sensor will continue to provide uninterrupted and accurate flow monitoring through dry and wet weather flows without the need for routine sensor cleaning or maintenance.



## Specifications\*

### FLO-DAR AV Sensor

<b>Enclosure</b>	IP68 Waterproof rating, Polystyrene
<b>Dimensions</b>	160.5 W x 432.2 L x 297 D mm (6.32 x 16.66 x 11.7 in.), with SVS, D = 387 mm (15.2 in.)
<b>Weight</b>	4.8 kg (10.5 lbs.)
<b>Operating Temperature</b>	-10 to 50°C (14 to 122°F)
<b>Storage Temperature</b>	-40 to 60°C (-40 to 140°F)
<b>Power Requirements</b>	Supplied by FL900 Flow Logger, Flo-Logger, or FLO-STATION

### Interconnecting Cable—Disconnectable at both sensor and logger or FLO-STATION

Polyurethane, 0.400 (±0.015) in. diameter; IP68 Standard length 9M (30 ft), maximum 305 m (1000 ft)

Cables are available in two styles:

- connectors both ends
- connector from sensor with open leads to desiccant hub, desiccant hub with connector to logger. A potting/sealant kit will be included. This can be used to run the cable through conduit.

**Important Note:** The sensor cable assembly with desiccant hub is compatible with either the Marsh-McBirney Flo-Logger/Logger XT or the Hach FL900 Series Flow Loggers. When using this cable assembly with the Marsh-McBirney Flo-Logger, do not disconnect the desiccant cartridge that is attached to the Flo-Logger itself. It is important to keep the air tube plugged.

If using FLO-DAR cable with FLO-STATION, the cable will have bare leads to the FLO-STATION (30 to 1000 ft. lengths) and there will be no desiccant hub, as the air tube terminates inside of the FLO-STATION housing.

<b>Warranty</b>	1 year
<b>Set-up/Data Retrieval</b>	FLO-WARE for Windows software is the user on-site set-up, data management, and report generation software. It is compatible with desktop/laptop computers utilizing Windows operating system.

### Certification

FLO-DAR Sensor Model Numbers: 890004801, 890004901, 890004804, 890005201, 890004807, and 890005204  
Frequency: 24.10GHz to 24.15GHz  
Category: Field Disturbance Sensor  
Output Field Strength: < 2.5 V/m (128dBuV/m) @ 3m, measured per following standards  
Certified to FCC Part 15.245: FCC ID: VIC-FLODAR24  
Certified to Industry Canada Spec. RSS210. V7: IC No.: 6149A-FLODAR24

FLO-DAR Sensor Model Numbers: 890004802, 890004902, 890004805, 890005202, 890004808, and 890005205  
Frequency: 24.16GHz to 24.19GHz  
Category: Short Range Device Output Power (EIRP): < 10mW (10dBm) @ 3m, measured per the following standard  
Certified to ETSI EN 300 440-1 V1.6.1 (2010-08)

Use of this device is subject to the following conditions:

1. There are no used serviceable items inside this device.
2. The user must install this device in accordance with the supplied installation instructions and must not modify the device in any manner whatsoever.
3. Any service involving the transmitter must only be performed by Hach Company.
4. The user must ensure that no one is within 20 cm of the face of the transmitter when operating.

### Surcharge Depth Measurement

Auto zero function maintains zero error below 0.5 cm (0.2 in.)

<b>Method</b>	Piezo-resistive pressure transducer with stainless steel diaphragm
<b>Range</b>	3.5 m (138 in.), overpressure rating 2.5 x full scale

### Velocity Measurement

<b>Method</b>	Radar
<b>Range</b>	0.23 to 6.10 m/s (0.75 to 20 ft/s)
<b>Accuracy</b>	±0.5%; ±0.03 m/s (±0.1 ft/s)

### Depth Measurement

<b>Method</b>	Ultrasonic
<b>Standard Operating Range from FLO-DAR Housing to Liquid</b>	0 to 152.4 cm (0 to 60 in.)
<b>Optional Extended Level Operating Range from Transducer Face to Liquid</b>	0 to 6.1 m (0 to 20 ft.) with 43.18 cm (17 in.) dead band, temperature compensated.
<b>Accuracy</b>	±1%; ±0.25 cm (±0.1 in.)

### Flow Measurement

<b>Method</b>	Based on Continuity Equation
<b>Accuracy</b>	±5% of reading typical where flow is in a channel with uniform flow conditions and is not surcharged, ±1% full scale max.

*Continued on next page.*

## Specifications\* (continued)

### Surcharge Conditions Depth/Velocity

#### DEPTH (Std with FLO-DAR Sensor)

Surcharge depth supplied by FLO-DAR sensor.

#### VELOCITY (Optional Surcharge Velocity Sensor)

Method	Electromagnetic
Range	$\pm 4.8$ m/s ( $\pm 16$ ft/s)
Accuracy	$\pm 0.15$ ft/s or 4% of reading, whichever is greater.
Zero Stability, Typical	$> \pm 0.05$ ft/s

### Certification Intrinsically Safe (Optional)

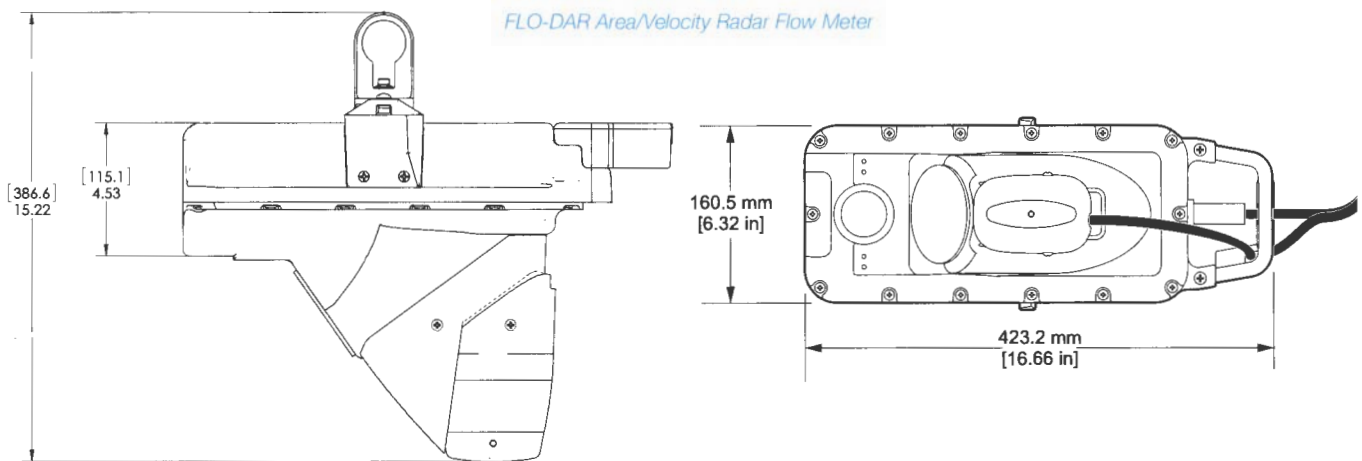
The optional FLO-DAR with a Surcharge Velocity Sensor (SVS) are certified to Class I, Zone 1 Standards. They conform to ANSI/UL 60079-11 and are certified to CAN/CSA E60079-11 and EN 60079-11 standards.



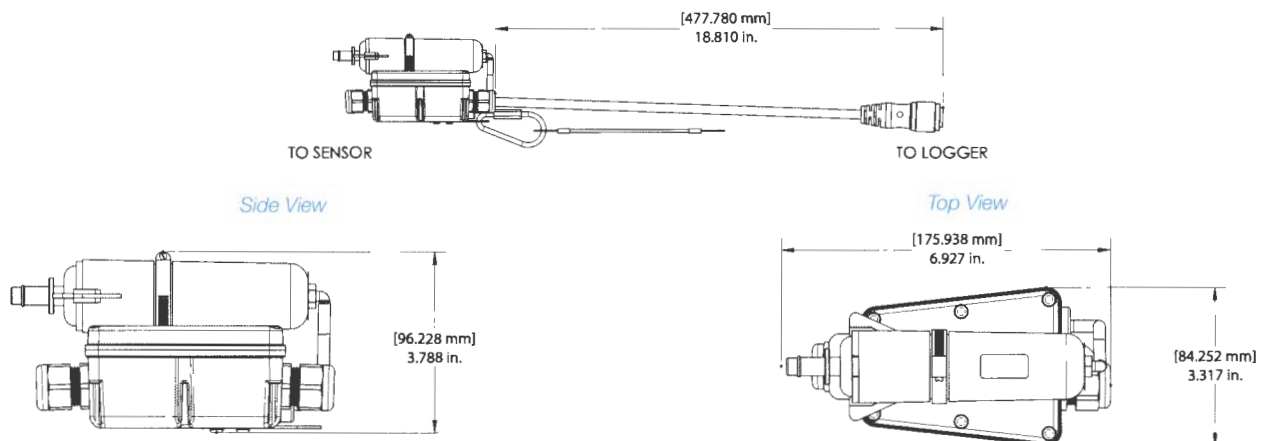
The FLO-DAR sensor meets CE requirements.

*\*Subject to change without notice.*

## Dimensions



The desiccant hub assembly includes a junction box to connect sensor cable to the desiccant and subsequently to the FL900 Logger. The desiccant can easily be replaced without need to purchase a separate desiccant module.



Desiccant Hub Assemblies for use with portable FL900 Series Loggers and Marsh-McBirney Flo-Logger.  
(Sensor cable for use with FLO-STATION will not contain a desiccant hub and will have bare wires on cable end.)



## Ordering Information

### Configure FLO-DAR Sensor to Logger (Portable)

FLO-DAR Sensor	Model 4000	-	4	X	X
<b>FLO-DAR Sensor with specified cable length</b> (need to add cable as separate line item)			4		
<b>Non Intrinsically Safe</b>				0	
<b>Surcharge Velocity Sensor Option</b> (IMPORTANT NOTE: SVS cable length MUST MATCH FLO-DAR Sensor Cable length)				3	
<b>Non Extended Range</b>					0
<b>Extended Range Option</b> —Allows use in flow depths up to 18 feet. Allow for 18" deadband. Standard unit max depth is 60". SVS Option requires Remote Extended Range below.					1
<b>Remote Extended Range Option with 6' sensor cable</b> —Flow depths up to 18 feet. Allow for 18" deadband. Standard unit max depth is 60".					2

### Configure FLO-DAR Sensor to FLO-STATION (Permanent)

FLO-DAR Sensor	Model 4000	-	9	X	X
<b>FLO-DAR Sensor with specified cable length</b> (need to add cable as separate line item)			9		
<b>Non Intrinsically Safe</b>				0	
<b>Surcharge Velocity Sensor Option</b> (IMPORTANT NOTE: SVS cable length MUST MATCH FLO-DAR Sensor Cable length)				3	
<b>Non Extended Range</b>					0
<b>Extended Range Option</b> —Allows use in flow depths up to 18 feet. Allow for 18" deadband. Standard unit max depth is 60". SVS Option requires Remote Extended Range below.					1
<b>Remote Extended Range Option with 6' sensor cable</b> —Flow depths up to 18 feet. Allow for 18" deadband. Standard unit max depth is 60".					2

### Cables

<b>FD9000CBL-XXX*</b>	FL900 Series Logger to FLO-DAR sensor. Cable w/two connectors.
<b>FDJCTBOXCBL-XXX*</b>	FL900 Series Logger to FLO-DAR sensor. Cable with connector to sensor, open end to desiccant hub, desiccant hub with connector to sensor. Includes finishing kit for potting/sealing desiccant hub. For use with conduit.
<b>6000062XX*</b>	SVS Sensor with connector for use with FL900 Series Logger.
<b>570011800-XXX*</b> <b>Model 4000-9</b>	FLO-STATION to FLO-DAR sensor Cable with one connector and bare leads.
<b>6000059XX*</b>	SVS Sensor with bare leads for use with FLO-STATION.

\*Contact customer service for product numbers.

Available Cable Lengths (in feet)

30	125	225	400	700
60	150	250	450	800
75	175	300	500	900
100	200	350	600	1000

See Lit. No. 2709 (standard models) and Lit. No. 2711 (wireless models) for FL900 Series Flow Logger ordering information.  
See Lit. No. 2616 for FLO-STATION ordering information.

### Mounting Hardware

<b>800016701</b>	Permanent Sensor Mount—Includes sensor frame & all mounting hardware. Portable Sensor Mounts Available (Sizes 34-107") Contact Sales.
------------------	---

### Accessories & Spares

<b>245000501</b>	Sensor Retrieval Pole - Used to place and retrieve sensor from mounting bracket. Pole extends to 7.3 m (21 ft.)
<b>510012701</b>	Sensor Retrieval Hook - Used with Sensor Retrieval Pole
<b>570011401</b>	Grounding Strap (required with Retrieval Pole and Hook when used with IS units)
<b>8755500</b>	Bulk desiccant beads (1.5 pounds)

For additional information on products mentioned in this data sheet, request the following data sheets:

Hach FL900 Series Flow Logger -Wireless (LIT2711)  
Hach FL900 Series Flow Logger - Standard (LIT2709)  
FLO-STATION Flow Monitor (LIT2616)

## HACH COMPANY World Headquarters: Loveland, Colorado USA

United States:	800-368-2723 tel	970-619-5150 fax	hachflowsales@hach.com
Outside United States:	970-622-7120 tel		
<b>hachflow.com</b>			

LIT2708 Rev 5

K13 Printed in U.S.A.

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In the interest of improving and updating its equipment,

Hach Company reserves the right to alter specifications to equipment at any time.



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-17**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



PCF-17 Mid-County I&I Remediation

Held for future use

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-18**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<b>New Project</b>		<b>Assigned Project #</b> 2016089	
<b>Requested by:</b>	Michael Wilson <i>Project Manager / Area Manager</i>			<b>Date:</b>	8/24/2016
<b>Project Name:</b>	MC Methanol / Instrumentation				
<b>Company:</b>	Mid County	Mid-County Services Inc			
<b>Business Unit:</b>	250100	Mid-County Services Inc			
<b>Project Owner:</b>	Patrick Flynn			<b>BU Type:</b>	SP
<b>Project Manager:</b>	Michael Wilson			<b>Budget Owner / RVP:</b>	John Hoy 03
<b>Start Date:</b>	8/1/2016	Q3 2016	<b>Region:</b> Florida 04		
<b>Estimated End Date:</b>	11/30/2016	Q4 2016	<b>State:</b> FL		
<b>Project Type:</b>	EH&S Compliance				
<b>Will project replace/retire any assets:</b>	Yes				
<b>Previously Requested:</b>					
<b>This Request:</b>	\$101,832				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	\$101,832				
<b>Description:</b>					
The scope of this project includes: 1. Replace two existing methanol feed pumps, explosion proof type. 2. Replace discharge piping and vent piping with stainless steel. 3. Replace and upgrade electrical controls and conduits to meet 2016 National Electrical Code. 4. Install instrumentation to flow pace methanol feed rates. 5. Connect new equipment to the Mid-County SCADA system.					
<b>Timeline Considerations:</b>					
This project is a proforma included in the 2016 UIF consolidated rate case to be filed in 3Q16.					
<b>Inter-dependant Project</b>					
<b>Project Number:</b>		<b>Project Name</b>		(If applicable)	
<b>Have engineering evaluations been performed?</b>		<b>Engineering project number</b>		(If applicable)	

**Justification and Benefits:**

The Mid-County WWTF is a surface water discharge facility with stringent limits in its NPDES operating permit including deep bed denitrification filters that utilize methanol to reduce TN to  $<3.0$  mg/L on an annual average basis. The existing methanol pumps, associated pump controls and piping components are at the end of their service life (24 years) and frequently are under repair with some of the pump parts now obsolete.

This project will update the pump controls by using current technology to optimize methanol feed rates. The pumps will be flow paced, driven by a PLC and output from an existing flow meter. In addition, the controls will tailor the feedrate using output from an in-line nitrogen and orthophosphate analyzer.

Also, the project will bring our electrical components into compliance with current NEC code. Methanol will be conveyed in a safer way to the deep bed denitrification filters after upgrading to stainless steel piping from PVC.

**Risk Evaluation**

With the current system utilizing obsolete pumping equipment, which we have repaired many times over the past 24 years, the system could suffer catastrophic failure resulting in much higher costs for emergency procurement of scarce parts, shipping, and installation. Through planning and upgrading, those concerns will be eliminated. With automated controls, monitoring will be enhanced and improved through connectivity to the Mid-County SCADA system.

**Alternatives Considered:**

1. Do nothing, maintain the status quo. This will put the utility at risk of an unplanned failure of the methanol feed system that would impact effluent quality and increase the likelihood of exceeding permit limits and incurring penalties and enforcement actions.
2. Attempt to repair the current equipment when the pumps and/or controls fail. Since the pumps are obsolete, manufacturing or locating replacement parts on short notice is problematic.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	99,633				
Project Spend in Current Plan	99,633				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	99,633	99,633	99,633	99,633	99,633

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--	--

### Financial Justification

--

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
2,199	
2,199	

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-

### Timing and Supporting Information on Rate Recovery

This project is a proforma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

--

### Regulatory Plan Implications

--

### Assumptions

--





## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	TriNova Methanol Pump Skid	\$38,608	Yes
2	ChemScan - Denite Filter Analyzer	\$41,467	Yes
3	EMS - Installation & Telemetry	\$12,500	Yes

### Component:

### Amount

Value Bid Elements

92,575.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Contingency 10%

9,257.00

Total Project Budget

101,832.00

Object Account(s) to which project will be closed:

1380

1365

Pumping Equipment Pump Pit

Flow Measure Devices

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

The project is split into three basic components, each of which has a cost that is less than the minimum threshold to solicit three bids:

1. The twin methanol pumps are skid mounted Prominent explosion-proof units that are pre-packaged to meet the requirements of the application. This package was selected based on input from a site visit to a nearby treatment plant that has used Prominent pumps with great success. TriNova represents the Prominent pump line. Our experience with Pulsafeeder methanol pump options identified that they were not likely to perform at the level needed in this application over the long term compared to the Prominent pumps or with as many features and benefits.
2. Two vendors were solicited for the chemical analyzer equipment with ChemScan selected over TriNova's equipment based on their responsiveness, the lower cost, and a more polished and complete submittal.
3. Installation costs were quoted by both TriNova and EMS with EMS selected based on lower cost, simpler control scheme, familiarity with the existing SCADA system, long track record of excellent performance with instrumentation work of all types, and ability to leverage their knowledge base with respect to Mid-County plant operations.



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/26/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2016

Approval to proceed Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by  Date:

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Michael Wilson Date: 8/26/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/26/2016 ☒

President: John P. Hoy Date: 8/26/2016 ☒

### Approval or Re-Direction Comments



# ChemScan® Process Analyzer

## Formal Proposal

Applied Spectrometry Associates, Inc. (ASA Analytics, Inc.), agrees to sell and deliver to the purchaser and the purchaser agrees to buy and accept from the company the ChemScan® products and services as described in this proposal upon operation of the ChemScan system in accordance with a standard of performance during a trial period as defined herein.

**Log No.:**

130804.4

**Proposal Date:**

August 24th, 2016

**Project Name:**

Utilities, Inc. of Florida  
Mid-County WWTP - Dunedin FL  
Denite Filters  
Nitrate + Orthophosphate Analyzers

**Bid Date:**

n/a

**Submit to:**

Mr. Seyd J Matteson  
Utilities, Inc. of Florida  
Mid-County WWTP  
2299 Spanish Vista Dr.  
Dunedin, FL 34698  
Phone: (727) 787-7978  
Email: [sjmatteson@uiwater.com](mailto:sjmatteson@uiwater.com)

**ChemScan  
Representative:**

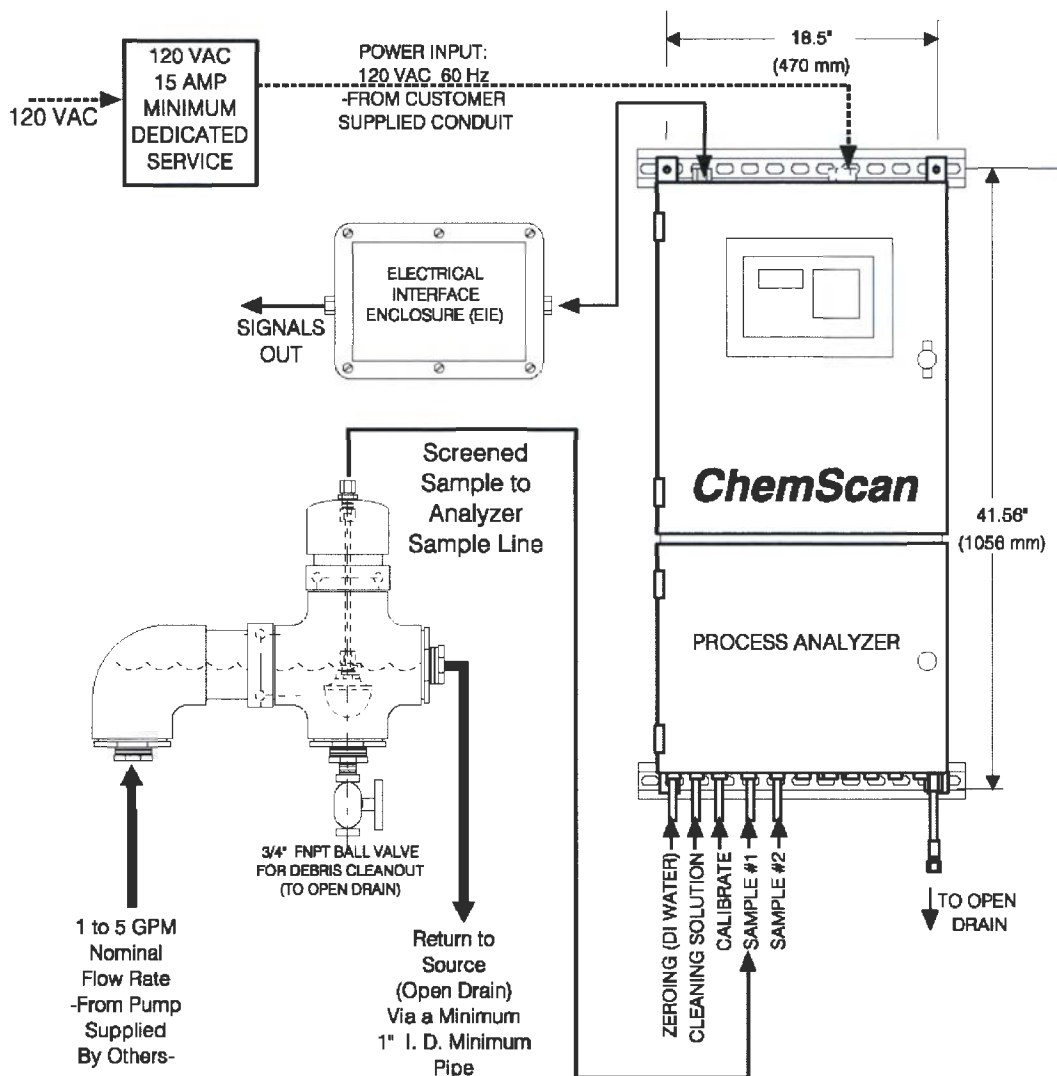
Chuck Hlavach  
EnviroSales, Inc.  
4125 Bee Ridge Road  
Sarasota, FL 34233  
Phone (941) 915-4861  
Email: [chuck@envirosalesofflorida.com](mailto:chuck@envirosalesofflorida.com)

**Factory:**

Applied Spectrometry Associates, Inc.  
2325 Parklawn Drive  
Waukesha, WI 53186  
Phone (262) 717-9500  
Fax (262) 717-9530

**Contact:**

Bruce Stevens – Regional Manager  
Atlanta, Georgia Area Office  
Email: [bps@chemscan.com](mailto:bps@chemscan.com)  
Phone (207) 557-2789



OPEN DRAIN REQUIRED  
BELOW SYSTEM  
FOR DRAIN TUBES

## ChemScan Process Analyzer with Sample Circulation Chamber

<b>ASA, Inc.</b>	PHONE: 262-717-9500
	FAX: 262-717-9530
Applied Spectrometry Associates, Inc. ©'98	
DATE: 12/6/04 REV:10/11/06 BY: LJB	
ChemScan Process Analyzer with Sample Circulation Chamber	
FILE # 41SCWLLA	

### Denite Filter System Analyzer with Sample pumps

Item 1 One (1) Wall Mounted ChemScan Model UV-2150/NoP Process Analyzer, including NEMA-4X 316L stainless steel electronics module enclosure, main power connection, control circuit board, network communications board and associated software for instrument control, internal memory with lithium battery backup, light source module, spectrograph module with 256 element array detector, external keypad and cabinet mounted display. Flow cell module consisting of removable flow cell, internal manifold including auto zero and clean functions, calibration sample port and two sample lines, peristaltic analyzer pump, RS-232 serial port and NEMA-4X stainless steel enclosure.

Item 2 One (1) Wall Mounted ChemScan Electrical Interface Enclosure, including NEMA-4 fiberglass enclosure, system communication module with four (4) analog (4-20 mA) outputs.

Item 3 Applied Spectrometry Associates, Inc. single instrument software license for chemometric algorithm suitable for on-line analysis of the following parameters:

Dunedin, FL	Mid County Services WRF	Nitrate (mg/l as N)	Ortho-phosphate (mg/l as P)
Sample Location #1	Denitrification Filter Influent	0.1 – 20.0	0.1– 5.00
Sample Location #2	Denitrification Filter Effluent	0.1 – 20.0	0.1 – 5.00

Item 4 ASA furnishes a Sample Conditioning Chamber for the influent line and a 1/2 year supply of chemical reagents for start-up (DI water and muriatic acid by others). Recipes for future make-up of additional reagents onsite shall be given out during training exercises after the installation of the system

Item 5 Field Service -as follows:

Initial on-site calibration - one (1) visit is included – onsite lab assistance is required  
Operation and Maintenance training – 1/2 day, included in above  
Includes travel expenses from Waukesha, WI

#### Notes:

1. Sample conditioning may not be necessary if TSS levels are below 150 ppm and no large chunks of algae or debris are present in the clarifier effluent.
2. Sample pumps are to be furnished by Client ( existing )
3. Sheltered or indoor location is required to maintain the proper ambient temperature. Prevent direct or reflected sunlight from impacting the analyzer enclosure and allow for air flow across or around the unit to minimize adverse temperature effects.
4. Model 2150 is expandable to read other analytes in the future such as nitrite and ammonia; if desired, field service costs and license fees will apply at that time.



## ChemScan Parts List

<b>Description</b>	<b>Part Number</b>	<b>Unit Price</b>
1 Amp Fuse	AEF0001	10
4 Amp Fuse	AEF0002	10
Heater/Fan Assembly	AEH0000	325
DC Power Supply w/wiring- 5/12	EPS0001	335
Spectrograph Assembly	AOS0006	5,225
Flash Lamp Assembly without lamp	AOF0000	2,609
Flash Lamp High Voltage P.S.	EPS0002	1,260
Flash Lamp	OLX0000	628
Flash Lamp DC Power Supply-24 w/wiring	EPS0000	130
<b>Instrument Control Board (ICB)</b>	<b>AEC0001</b>	<b>869</b>
Battery	ECB0001	16
Network Interface Card	AEC0011	325
24 VAC Transformer	EPT0001	35
RF Line Filter	ELF0000	53
Control Panel Assembly	MPC0000	228
Flashlamp Module	AFM2008	1,418
Fiber Optic Cable (Qty. 1)	OFC2000	375
Valve/Pump Driver Card	AEC0012	434
<b>Injector Pump</b>	<b>PFP0007</b>	<b>780</b>
Reagent Injector Tube Assembly (Qty 3)	AIF0016	83
Reagent Containers (Specify Color)	FSC0005	24
Reagent Container Tube Assembly (Specify Color)	ARI0016	107
Manifold Valve	PVS0016	510
Manifold Block (4 station)	MAN0615	600
Manifold Block (2 station)	MAN0516	300
<b>Peristaltic Pump Assembly</b>	<b>PSP0003</b>	<b>1,588</b>
Peristaltic Pump Tube (50 ft)	TGT0007	192
Peristaltic Pump Tube Assy.(set of 4)	APT0022	136
Optrode Assembly (Lens Blocks only)	AFO0099	1,097
Flow Cell Assembly (injectable)	AFC0540	878
Flow Cell Body ( 50 mm, injectable )		520
Flow Cell Assembly (non-injectable)	AFC0535	550
O-rings	POX0001	8
Inlet Assembly	BFA0001	37
Inlet Strainer Screen	PFS0054	18
Flow Cell Windows (set)	AWP1175	384
Diaphragm Pump ( Cyclic)	PFP0014	478
Diaphragm Pump ( UV2150/S)	PFP0015	610
Cyclic Valve on pump plate	PVS0018	526
C.I.M.	AEC2005	1,022
Fuse (2 A)	EFF0001	10
PLC Backplane (4 slot) D2-04B	UPM0001	323
PLC Backplane (6 slot) D2-06B	UPM0002	398
4-20 mA Output Module F2-02DA-1	UPM0003	390
Input Module D2-08NA-1	UPM0005	173
Output Module D2-08TR	UPM0006	155
Pre-loaded CPU Module D2-240 CPU	UPM0008	698
4-20ma Output Module (8 channel)	UPM0019	748
Ethernet IP Module in box (4201-dfnt-mcm)	UPM0020	3,000
<b>Filter Elements</b>		
Cyclic Elements 12/ pkg	PFM1004	800

**Denite Filter Sampling and analysis system**

<b><u>Price</u></b>	Items 1 to 5 two sample point UV – 2150/NoP	<b>\$38,230.00</b>
	Spare parts highlighted in yellow, 3 items (P/N's AEC0001, PFP0007, PSP0003)	<b><u>\$ 3,237.00</u></b>
	<b>Total Price for one analyzers and spare parts</b>	<b>\$41,467.00</b>

**Taxes:** Any applicable Duties or Federal, State, County or City Sales, Use, Excise or similar taxes will be added to the price and invoiced separately (unless acceptable exemption certificate is furnished).

**Terms of Payment:** 20% upon presentation of submittal package for approval.  
(OEM/Municipal) 70% upon shipment of ChemScan® instrument and accessories.  
10% upon startup, not to exceed 60 days from date of shipment.

**NOTE: WARRANTIES SHALL APPLY ONLY IF PAYMENT IS MADE IN FULL AND IN CONFORMANCE TO THE ABOVE SCHEDULE.**

Unless other terms are specified, all payments shall be in United States dollars, and pro rata payments shall become due as deliveries are made. If delivery is delayed by Purchaser, date of readiness for delivery shall be deemed to be date of delivery for payment purposes. If manufacture is delayed by Purchaser, a payment shall be made based on purchase price and percentage of completion, balance payable in accordance with the terms as stated.

If payments are not made in conformance with the terms stated herein, the contract price, without prejudice to Company's right to immediate payment, shall be increased by 1% per month on the unpaid balance but not to exceed the maximum amount permitted by law.

If at any time in Company's judgment Purchaser may be or may become unable or unwilling to meet the terms specified, Company may require satisfactory assurances of full or partial payment as a condition to commencing or continuing manufacture of in advance of shipment, or if shipment has been made recover the product(s) from the carrier.

**Shipping Date:** 45 days or less after authorization to proceed with fabrication, subject to price policy clause.

**Delivery Terms:** F.O.B., Waukesha, WI. Freight allowed in price quoted.

**Validity:** This proposal is valid for a period of 60 days from the date of the proposal shown above.

## STANDARD CONDITIONS OF SALE

### 1. Terms

Delivery to the transporting carrier shall constitute delivery to the Purchaser and title shall pass at that point, except that a security interest in the product(s) shall remain in Applied Spectrometry Associates, Inc. (Company) regardless of mode of attachment to realty or other property, until the full price has been paid in cash. The Purchaser agrees to perform all acts necessary to perfect and maintain said security interest, and to protect Company's interest by adequately insuring the product(s) against loss or damage from any external cause with Company named as insured or co-insured.

Partial shipments may be made and proportionate payments shall become due and payable on partial shipments. Company shall select method of transportation and route. When delivery terms are FOB, destination or freight allowed to destination, "destination" means common carrier terminal point (within the continental United States, excluding Alaska and Hawaii) nearest the final destination.

The target shipment date is subject to change due to delay on the part of the Purchaser in supplying the Company with necessary data or any changes therein at the Purchaser's insistence, and to delays caused by fires, floods, strikes, accidents, civil or military authority, delays by suppliers of material and any other cause beyond the Company's reasonable control. Delay in delivery for any cause shall in no event subject the Company to any special or consequential damages.

If at any time in Company's judgment Purchaser may be or may become unable or unwilling to meet the payment terms specified, Company may require satisfactory assurances of full or partial payment as a condition to commencing or continuing manufacture or payment in advance of shipment, or may, if shipment has been made, recover the product(s) from the carrier.

If payments are not made in conformance with the terms specified herein, the contract price, without prejudice to the Company's right to immediate payment, shall be increased by 1% per month on the unpaid balance, but not to exceed the maximum amount permitted by law.

### 2. Warranty

The Company warrants the product(s) on date of delivery to Purchaser to be of the kind and quality described herein, merchantable, and free of defects in workmanship and material.

There are no warranties, express or implied, except the foregoing. The provisions in specifications hereto attached, if any, are descriptive. There is no warranty as to the performance of the product(s) except as may be set forth in a separate performance warranty attached to this proposal.

The foregoing warranties are expressly conditioned upon the ambient operating temperature at no time exceeding 120°F. If temperature at any time exceeds 120°F, all warranties shall be null and void and the Company shall have no responsibility or liability with respect to the product(s).

The Company shall not be responsible for the deterioration of any kind of the product(s) to corrosion, erosion, or any other cause, regardless of when such deterioration occurs after leaving the Company's premises.

Any item of the product(s) which has not been manufactured by the Company shall be covered only by the express warranty of the manufacturer thereof.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSLY STATED IN THIS CONTRACT. THE EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY OR CLAIM IN TORT OR CONTRACT IS AS STATED HEREINAFTER.

IF PAYMENTS ARE NOT MADE ON TIME AND IN FULL, ALL WARRANTIES SHALL BE NULL AND VOID AND THE COMPANY SHALL HAVE NO RESPONSIBILITY OR LIABILITY WITH RESPECT TO THE PRODUCTS.

IF THE PRODUCT(S) IS/ARE NOT INSTALLED, OPERATED AND MAINTAINED IN CONFORMANCE WITH THE COMPANY'S INSTRUCTIONS, ALL WARRANTIES SHALL BE NULL AND VOID AND THE COMPANY SHALL HAVE NO RESPONSIBILITY OR LIABILITY WITH RESPECT TO THE PRODUCTS.

If, within one year from the date of initial operation, but not more than 18 months from date of shipment by Company of any item of the product(s), Purchaser discovers that such item was not as warranted and that such defect interferes with the mechanical operation of the product(s), and promptly notifies the Company in writing thereof, the Company shall remedy such nonconformance (but only if the Company, in its sole judgment, determines that such item or product(s) was not as warranted and that such defect interferes with the mechanical operation of the item or product(s), and in the event of a dispute, the Company's decision shall be final) by, at Company's option, adjustment of the purchase price or furnishing or repairing, depending upon which alternative is most in accord with scientific or engineering principles, without charge, FOB origin, a similar part to replace any part of the product(s). Purchaser shall assume all responsibility and expense for removal, reinstallation, and freight in connection with the foregoing remedies. The Company shall have the option of requiring the return of the product(s), transportation prepaid by purchaser, to establish the claim, or to make repairs or replace parts, or both. No allowance will be made for repairs or alterations unless made with the Company's consent or approval. Company will not be responsible for work done, apparatus furnished or repairs made by others, without prior authorization by the Company.

Replacement parts furnished by the Company shall be warranted as new parts are herein warranted. The same conditions and limitations with respect to the repair or replacement of such replacement item or product(s), as apply to new product(s), shall apply to such replacement parts. Company shall have the right of disposal of parts replaced by it.

Company's liability to Purchaser relating to the product(s), whether in contract or in tort, arising out of warranties, representations, instructions, installations, or defects from any cause, shall be limited exclusively to adjusting the purchase price or correcting the product(s) and under the conditions as aforesaid. The Company shall not be liable for any special or consequential damages resulting in any manner from the furnishing or use of the product(s), whether in connection with any erosive or corrosive gases or liquid or otherwise.

### 3. Patents

Company shall pay costs and damages finally awarded in any suit against Purchaser or its vendees to the extent based upon a finding that the design or construction of the product(s) as furnished infringes a United States patent (except infringement occurring as a result or incorporating a design or modification at Purchaser's request) provided that Purchaser promptly notifies Company of any charge of such infringement, and Company is given the right at its expense to settle such charge and to defend or control the defense of any suit based upon such charge. This paragraph sets forth Company's exclusive liability with respects to patents.

### 4. Confidential Information and Improvements

Purchaser will keep confidential and will not use or reproduce any information received from Company in connection with the Proposal or the use, operation nor maintenance of the product(s) except with the written consent of Company. Purchaser will not copy or otherwise reproduce any written or printed material or drawings furnished to Purchaser by Company in connection with the product(s). Purchaser will return all such material to Company if the Proposal is not accepted. Purchaser will not copy the product(s) or make any design drawings of the product(s) and will not permit others to copy or make design drawings of the product(s). Company shall have a royalty-free license to make, use and sell, any changes or improvements in the product(s) invented or suggested by Purchaser or its employees.

### 5. General

Company shall not in any event be liable for indirect, special, incidental, or consequential damages, or penalties, nor does it assume any liability of Purchaser or others for injury to persons or property.

The laws of the State of Wisconsin shall govern the validity, interpretation and enforcement of this contract.

This document and the other document specifically referred to as being a part thereof, constitute the entire contract on the subject matter, and it shall not be modified except in writing signed by both parties. Assignment may be made only with written consent to the other party.

Unused spare or replacement parts may be returned FOB factory for credit less a 25% handling and restocking charge.

## OFFER

The foregoing is hereby offered.

ChemScan® Process Analyzers  
Applied Spectrometry Associates, Inc.  
2325 Parklawn Drive  
Waukesha, WI 53186



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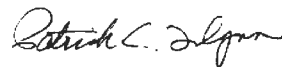
By: Bruce P. Stevens – Regional Manager

Date: August 29th, 2016

## ACCEPTANCE

The foregoing proposal is hereby accepted.

Utilities, Inc. of Florida  
Formerly Mid-County Services, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714



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By: Patrick C. Flynn, Vice President

Date: August 25, 2016



3578192



TriNova-Florida  
Formerly AMJ  
4110 South Florida Ave, Suite 200  
Lakeland, FL 33813  
800-881-1487 Office | 863-687-0077 Fax  
FLSales@trinovainc.com

Batch \_\_\_\_\_

Doc \_\_\_\_\_

**INVOICE**

Page#: 1  
Invoice#: 237444  
Invoice Date: 07/22/16

**Bill To:**

UTILITIES INC  
2335 SANDERS ROAD  
NSCHAEFER@UIWATER.COM  
NORTHBROOK IL 60062

NEW TX

**Ship To:**

UTILITIES INC  
2299 SPANISH VISTAS DRIVE  
DUNEDIN FL 34698

Your PO#: 212716  
Order Date: 04/29/16  
Ship Date: 07/21/16  
FOB: FACTORY SHIP POINT  
Ship Via: BEST WAY  
Tracking#:

Terms: NET 30 DAYS  
SAOID#: 231790  
Our Fed ID#: 63-0517031  
Control#: 16-104132-  
Territory#: 41 49

LI#	Order	Ship	BO	Part#/Description	Net Each	Total
1	1	1	0	P2_EXBB METHANOL 316SS Duplex primary/backup methanol feed skid package  PP/PE skid for solenoid driven pumps, (42"W x 36"D x 72"H) 1/2" 316SS compression fittings and tubing Wye strainer 500ml SS/Glass calibration column Two pressure relief valves Pressure gauge with isolator Back pressure valve Plumbing and components rated at 150 PSI regardless of pump pressure.	13,783.00	13,783.00
2	2	2	0	EXBBG0430SB10B612 Extronic version b  ProMinent Extronic is a solenoid driven, diaphragm type metering pump used specifically in explosion proof applications. Factory Mutual approved for Class 1 Division 1, Groups B, C & D and intrinsically safe output connections for Class 1, Division 1, Groups A, C & D. CSA approved for Class 1, Division 1, Groups C & D. Manual stroke length is adjustable from 0% - 100% at a ratio of 10:1. Adjustable stroke frequency contro at a ratio of 25:1.  Selected options: - type of protection: gas explosion proof - pump type: 50.8 psi 7.13gph - dosing head material: 316 SS with PTFE o-rings, R 1/4" internal thread - valve spring: without valve spring - electric connection: 115V 50/60Hz open end - control system type: Analog 4-20 mA, intrinsically safe [i,a] - control operation: with push button for maximum frequency - approval - country / language: FM - USA, English, 115 V, 230 V	6,204.75	12,409.50
3	2	2	0	TB NEMA 7 NEMA 7 TERMINAL BOX	4,548.00	9,096.00

\*\*\*\*\* CONTINUED ON PAGE 2 \*\*\*\*\*

RECEIVED

AUG 03 2016



TriNova-Florida  
Formerly AMJ  
4110 South Florida Ave, Suite 200  
Lakeland, FL 33813  
800-881-1487 Office | 863-687-0077 Fax  
[FLSales@trinovainc.com](mailto:FLSales@trinovainc.com)

# INVOICE

Page#: 2  
Invoice#: 237444  
Invoice Date: 07/22/16

LI#	Order	Ship	BO	Part#/Description	Net Each	Total
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6	1	0	1	ONSITE SERVICE ONSITE SERVICE FOR START-UP AND TRAINING ON PROMINENT METHANOL SKID (BOTH COMPLETED IN 1 DAY)	1,400.00	
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Sub-Total:	35,288.50
Ship/Handle:	850.00
Tax:	2,470.20
	=====
Total Due:	38,608.70

**EMS of Central Florida, Inc.**

7906 Clark Moody Boulevard

Port Richey, FL 34668

Phone # 727-847-3722 Fax # 727-847-4063

EMS34668@gmail.com

**Estimate**

Date	Estimate #
7/25/2016	17787

<b>Name / Address</b>
Utilities, Inc. Attn: Accounts Pay Mid County Unit #250100 2335 Sanders Road Northbrook, IL 60062

<b>Project</b>

Qty	Description	Rate	Total
	<b>**Estimate for EMS to install piping, electrical and SCADA for Duplex Primary/Backup Methanol Feed Skid Package and ChemScan Process Analyzer**</b>		
1	Methanol System - Labor & Materials to install, setup and make operational.	6,250.00	6,250.00
1	ChemScan Process Analyzer - Labor & Materials to install, setup and make operational.	6,250.00	6,250.00
	<b>**Methanol Skid Package and ChemScan Process Analyzer to be supplied by others**</b>		
Interest of 1 1/2% per month on past due invoices. Customer agrees to pay all collection cost.		<b>Subtotal</b>	\$12,500.00
		<b>Sales Tax (7.0%)</b>	\$0.00
		<b>Total</b>	\$12,500.00

Signature \_\_\_\_\_

[www.emsofcentralflorida.com](http://www.emsofcentralflorida.com)

# ***Applied Spectrometry Associates, Inc.***

Phone (262) 717-9500

Fax (262) 717-9530

## **INVOICE**

Utilities, Inc.  
ACCOUNTS PAYABLE  
2335 Sanders Road  
Northbrook, IL 60062

Invoice Date: October 11, 2016

Invoice No.: 5825

Your P.O. No. 224643-O6  
Mike Wilson (321) 972-0374 / [mawilson@uiwater.com](mailto:mawilson@uiwater.com)  
Our Project No. 5904-Mid-County WWTP, FL

<b>Item</b>	<b>Description</b>	<b>Order Value</b>
1	Chemscan UV-2150/NoP Analyzer s/n 10012609 & EIE: C.I.M. 10012610	\$ 38,230.00
2	ICB Board #800067	869.00
3	Injector Pump #300137	780.00
4	Peristatic Pump #300151	<u>1,588.00</u>
		\$ 41,467.00
	70% Upon Shipment	x <u>70%</u>
	<b>TOTAL INVOICE AMOUNT</b>	<b><u>\$ 29,026.90</u></b>
		<b>US DOLLARS</b>

**Payment Term: Net 30 Days From Invoice Date**

**Please Remit To:**  
Applied Spectrometry Associates, Inc.  
2325 Parklawn Drive, Suite I  
Waukesha, WI 53186

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-19**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2016032

Requested by:

Mike Wilson

Date:

3/8/2016

Project Manager / Area Manager

Project Name:

US 19 Utility Relocation

Company:

250

Mid-County Services Inc

Business Unit:

250100

Mid-County Services Inc

Project Owner:

Patrick Flynn

BU Type:

SP

Project Manager:

Mike Wilson

Budget Owner / RVP:

John Hoy

03

Region:

Florida

04

Start Date:

3/15/2016

Q1 2016

Estimated End Date:

12/30/2016

Q4 2016

State:

FL

Project Type:

EH&amp;S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$230,000

Still to be Requested:

Total Project Budget:

\$230,000

## Description:

This project will replace 525LF of existing 6" force main, and redirect flow to a different manhole and gravity artery into our WWTF. The project will also replace 190LF of existing 8" gravity main to include 1 each - 4' diameter doghouse manhole. Both lines will be replaced as part of the FDOT US 19 road widening project.

The project budget also includes the engineering design, permitting and construction oversight activities in support of the construction and rehabilitation of the facilities.

## Timeline Considerations:

The force main relocation can be executed immediately. The open cut of the 8" cast iron gravity main will require construction in coordination and possibly under contract with FDOT's contractor due to possible lane closure requirements during the road widening project.

## Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

(If applicable)

**Justification and Benefits:**

This project is being scheduled in coordination with the widening of US19/SR19 from its current 8 lanes to 10 lanes (major highway). This project will allow the utility to relocate an existing 6" force main by redirecting the flow from Lift Station #4 (Macaroni Grill) across US 19 south of the lift station, then discharge into another gravity artery that flows into the Mid-County WWTP. The current force main drops into a gravity manhole located about 1,200LF north of the lift station and in front of the Riviera MHP. Flow crosses US19/SR19 through an 8" cast iron pipe that is so tuberculated that it restricts flow during major rain events resulting in SSO's at that manhole. By redirecting the force main flow away from this manhole through an alternate path, the risk of future SSO's is significantly reduced. This project will also provide the opportunity to address the existing 8" gravity line crossing under US19/SR19 by lining with CIPP after removal of the tuberculation or by using pipe bursting methods. We are still evaluating the most cost effective way to address the gravity main.

The costs presented are the engineer's estimate of the GSM remediation and bids received for the FM relocation. This project is needed to reduce the SSO's generated by the tuberculated cast iron gravity main and in conjunction with the FDOT road project that will require relocation of our existing facilities due to conflicts with the road improvement project's design that includes storm conveyance, sidewalks, frontage roads, and flyover components.

**Risk Evaluation**

The utility has reviewed this project with the engineer to determine the optimum solution that addresses the following attributes and limitations posed by the highway project: constructability; long-term access to the facilities for maintenance and repair; hydraulic capacity of the collection system; peak and average day flow conditions; and the frequency of SSO's.

**Alternatives Considered:**

We are still in the process of determining the optimum solution for the rehabilitation of the gravity main crossing under the highway. We are evaluating pipe bursting, open cut construction, chain cleaning, and cured in place piping (CIPP). The current engineering estimate is the worst case scenario.

**Technical Review Summary:**

## Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	230,000				
Project Spend in Current Plan	230,000				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	230,000	230,000	230,000	230,000	230,000

(if applicable)

## O&M Cost Impact B/(W)

--	--	--	--	--	--

## Financial Justification

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(4)	(4)
5,622	5,622

## Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)		(5,750)	(5,750)	(5,750)	(5,750)
Under-recovery on capital B/(W)		(16,819)	(16,388)	(15,956)	(15,525)
Net EBIT Impact B/(W)		(22,569)	(22,138)	(21,706)	(21,275)

## Timing and Supporting Information on Rate Recovery

This project is currently in our Pro-Forma rate plan for the upcoming UIF July 2016 rate case.

## Regulatory Plan Implications

## Assumptions







## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 3/15/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 3/10/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

Reconcile the budget amount info at the top of the Financials tab with the budget amount and budget breakdown.

### FP&A Review

Review Completed by Christie Kincaid Date: 3/15/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

The Budget amount in the Financial tab is reconciled to the amount in the Bid&Budget tab.

### Approvals

Applicable?

Regional Manager: Michael Wilson Date: 3/14/2016 ☒

VP Operations: Patrick C. Flynn Date: 3/14/2016 ☒

President: John P. Hoy Date: 3/15/2015 ☒

### Approval or Re-Direction Comments

8/8/16: Description, Justification, Bid & Budget, and General Comments have been revised to reflect receipt of bids for the FM relocation work and to clarify the project's budget components.



**BID TABULATION  
FOR  
US-19 UTILITY RELOCATIONS**

BID TABULATION				1	2	3
				Kamminga & Roodvoets, Inc. 5219 Cone Road Tampa, FL 33610	Rowland, Inc. 6855 102 <sup>nd</sup> Ave N Pinellas Park, FL 33782	Environmental Equipment Sales, Inc. P.O. Box 2459 Riverview, FL 33568
ITEM	DESCRIPTION	EST. QTY.	U/M	TOTAL BID PRICE	TOTAL BID PRICE	TOTAL BID PRICE
1	Mobilization (10%)	1	LS	\$ 18,000.00	\$ 9,050.00	\$ 8,735.00
2	Maintenance of Traffic	1	LS	\$ 2,500.00	\$ 28,500.00	\$ 4,900.00
3	Erosion and Sediment Control	1	LS	\$ 2,000.00	\$ 3,600.00	\$ 2,200.00
4	Miscellaneous Work and Clean Up	1	LS	\$ 19,500.00	\$ 3,400.00	\$ 4,900.00
5	6" PVC DR 18 (Direct Bury) Including Excavation, Restraints, Fittings, Dewatering	1	LS	\$ 28,000.00	\$ 19,400.00	\$ 9,000.00
6	8" DR 11 HDPE (HDD) Including Excavation, Restraints, Fittings, Dewatering	1	LS	\$ 15,000.00	\$ 19,500.00	\$ 29,122.00
7	Force Main Connection and Lift Station Shutdown	1	LS	\$ 5,600.00	\$ 7,300.00	\$ 3,900.00
8	Manhole Connection	1	LS	\$ 11,500.00	\$ 7,850.00	\$ 3,500.00
9	Pipe Adapters (HDPE to PVC)	1	LS	\$ 300.00	\$ 600.00	\$ 1,500.00
10	Asphalt Repair (Base and Resurface)	1	LS	\$ 12,000.00	\$ 16,150.00	\$ 8,900.00
11	Restoration	1	LS	\$ 8,500.00	\$ 12,300.00	\$ 10,700.00
<b>TOTAL LUMP SUM PRICE PRICE (BASE BID)</b>				\$ 122,900.00	\$ 127,650.00	\$ 87,357.00

SECTION 00410

BID FORM

PART 1 GENERAL

1.1 Description Utilities Inc - Mid County

The following Bid, for the (1) US 19 Utility Relocations, is hereby made to (2) Utilities Inc. of Florida, hereafter called the Owner. This Bid is submitted by (3) Environmental Equipment Sales, Inc. PO Box 2459, Riverview, FL 33568.

- (1) Name of Project as shown in the Invitation for Bids  
(2) Owner  
(3) Name, address, and telephone number of Bidder

1.2 The Undersigned:

A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.
2. Addenda:      Number      1      Dated 7-18-16 + 7-20-16  
                         Number                  Dated         
                         Number                  Dated         
                         Number                  Dated

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents.

5. To begin work not later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 120 calendar days of the date of the Notice to Proceed.
6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### 1.3 Lump Sum Price

The undersigned will construct this project for the Base Bid Lump Sum Price of \$ Eighty - Seven Thousand Three Hundred Fifty - Seven Dollars (\$ 87,357.00 ).

### 1.4 Schedule of Values

The Bidder hereby indicates the following total units and total prices which represent all materials, labor, equipment, transportation, performance of all operations relative to construction of the project, overhead, and costs of all kinds and profit to complete the work items in accordance with the Project Manual, plans, and permits. Work for which there is not a listed item below shall be considered incidental to the Contract and no additional compensation will be allowed.

ITEM	UNIT	QUANTITY	TOTAL PRICE
Mobilization (10%)	LS	1	8,735.00
Maintenance of Traffic	LS	1	4,900.00
Erosion and Sediment Control	LS	1	2,200.00
Miscellaneous Work and Clean Up	LS	1	4,900.00
6" PVC DR 18 (Direct Bury) Including Excavation, Restraints, Fittings, Dewatering	LS	1	9,000.00
8" DR 11 HDPE (HDD) Including Excavation, Restraints, Fittings, Dewatering	LS	1	29,122.00
Force Main Connection and Lift Station Shutdown	LS	1	3,900.00
Manhole Connection	LS	1	3,500.00
Pipe Adapters (HDPE to PVC)	LS	1	1,500.00
Asphalt Repair (Base and Resurface)	LS	1	8,900.00
Restoration	LS	1	10,700.00
<b>TOTAL LUMP SUM PRICE (BASE BID)</b>			<b>\$ 87,357.00</b>

SECTION 00410

BID FORM

PART 1 GENERAL

1.1 Description

The following Bid, for the (1) US-19 utility Relocations, is hereby made to (2) Utilities, Inc.  
of Florida, hereafter called the Owner. This Bid is submitted by (3) Kamminga : Roadwork, Inc.  
5219 Cone Rd. Tampa FL 33610  
Phone- 813-623-3031

(1) Name of Project as shown in the Invitation for Bids

(2) Owner

(3) Name, address, and telephone number of Bidder

1.2 The Undersigned:

A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.

2. Addenda: Number #1 Dated 7-18-16; 7-20-16  
Number \_\_\_\_\_ Dated \_\_\_\_\_  
Number \_\_\_\_\_ Dated \_\_\_\_\_  
Number \_\_\_\_\_ Dated \_\_\_\_\_

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.

2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.

3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.

4. To accomplish the work in accordance with the Contract Documents.

5. To begin work not later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 120 calendar days of the date of the Notice to Proceed.
6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### 1.3 Lump Sum Price

The undersigned will construct this project for the Base Bid Lump Sum Price of \$ One Hundred Twenty Two Thousand Nine Hundred <sup>00</sup>/<sub>100</sub> Dollars (\$ 122,900.00 ).

### 1.4 Schedule of Values

The Bidder hereby indicates the following total units and total prices which represent all materials, labor, equipment, transportation, performance of all operations relative to construction of the project, overhead, and costs of all kinds and profit to complete the work items in accordance with the Project Manual, plans, and permits. Work for which there is not a listed item below shall be considered incidental to the Contract and no additional compensation will be allowed.

ITEM	UNIT	QUANTITY	TOTAL PRICE
Mobilization (10%)	LS	1	18,000.00
Maintenance of Traffic	LS	1	2,500.00
Erosion and Sediment Control	LS	1	2,000.00
Miscellaneous Work and Clean Up	LS	1	19,500.00
6" PVC DR 18 (Direct Bury) Including Excavation, Restraints, Fittings, Dewatering	LS	1	28,000.00
8" DR 11 HDPE (HDD) Including Excavation, Restraints, Fittings, Dewatering	LS	1	15,000.00
Force Main Connection and Lift Station Shutdown	LS	1	5,600.00
Manhole Connection	LS	1	11,500.00
Pipe Adapters (HDPE to PVC)	LS	1	300.00
Asphalt Repair (Base and Resurface)	LS	1	12,000.00
Restoration	LS	1	8,500.00
<b>TOTAL LUMP SUM PRICE (BASE BID)</b>			<b>\$ 122,900.00</b>



## SECTION 00410

### BID FORM

#### PART 1 GENERAL

##### 1.1 Description

The following Bid, for the (1) US-19 Utility Relocations \_\_\_\_\_, is hereby made to (2) Utilities Inc. \_\_\_\_\_, hereafter called the Owner. This Bid is submitted by (3) \_\_\_\_\_  
Rowland Inc, (727) 545-3815  
6855 102nd. Ave. N.  
Pinellas Park FL. 33782

(1) Name of Project as shown in the Invitation for Bids

(2) Owner

(3) Name, address, and telephone number of Bidder

##### 1.2 The Undersigned:

###### A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.
2. Addenda:      Number      \_\_\_\_\_      Dated      \_\_\_\_\_  
                         Number      \_\_\_\_\_      Dated      \_\_\_\_\_  
                         Number      \_\_\_\_\_      Dated      \_\_\_\_\_  
                         Number      \_\_\_\_\_      Dated      \_\_\_\_\_

###### B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

###### C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents.

5. To begin work not later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 120 calendar days of the date of the Notice to Proceed.
6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### 1.3 Lump Sum Price

The undersigned will construct this project for the Base Bid Lump Sum Price of \$One Hundred Twenty Seven Thousand, Six Hundred Fifty Dollars (\$127,650.00).

### 1.4 Schedule of Values

The Bidder hereby indicates the following total units and total prices which represent all materials, labor, equipment, transportation, performance of all operations relative to construction of the project, overhead, and costs of all kinds and profit to complete the work items in accordance with the Project Manual, plans, and permits. Work for which there is not a listed item below shall be considered incidental to the Contract and no additional compensation will be allowed.

ITEM	UNIT	QUANTITY	TOTAL PRICE
Mobilization (10%)	LS	1	\$9,050.00
Maintenance of Traffic	LS	1	\$28,500.00
Erosion and Sediment Control	LS	1	\$3,600.00
Miscellaneous Work and Clean Up	LS	1	\$3,400.00
6" PVC DR 18 (Direct Bury) Including Excavation, Restraints, Fittings, Dewatering	LS	1	\$19,400.00
8" DR 11 HDPE (HDD) Including Excavation, Restraints, Fittings, Dewatering	LS	1	\$19,500.00
Force Main Connection and Lift Station Shutdown	LS	1	\$7,300.00
Manhole Connection	LS	1	\$7,850.00
Pipe Adapters (HDPE to PVC)	LS	1	\$600.00
Asphalt Repair (Base and Resurface)	LS	1	\$16,150.00
Restoration	LS	1	\$12,300.00
<b>TOTAL LUMP SUM PRICE (BASE BID)</b>			<b>\$ 127,650.00</b>

SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 THIS AGREEMENT, made this 13<sup>th</sup> day of OCTOBER, 2016, by and between Utilities Inc of Florida Mid County hereinafter called the Owner, and Environmental Equipment Sales, Inc. whose principal and local address is Po Box 2459, Riverview, FL 33568, hereinafter called the Contractor.

1.02 The Owner and Contractor Agree as follows:

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the Bonds, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the US19 Utility Relocation.

C. Contract Time

The Contractor shall begin work after the issuance of a written Notice to Proceed from Owner and shall substantially complete the work within the Contract Time identified in Paragraphs 1.02.C.5 of the Bid Form, which is 120 calendar days. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal

arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$1,000.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Lump Sum Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order, the Total Contract Price of One Hundred Seven Thousand Fifty-Four +  $\frac{00}{100}$  Dollars (\$ 107,054.00). Payments will be made to the Contractor based on the Lump Sum Bid amount, the Schedule of Values included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein, and subject to completion of the work, in accordance with the Contract Documents.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

H. Engineer

The Project has been designed by Kimley-Horn and Associate, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Environmental Equipment Sales, Inc.  
Name of Firm

Brian Spicher  
By (Signature)

(SEAL)

Brian Spicher, President  
Printed Name and Title

ATTEST:

Colleen Kleist  
By (Signature)

Colleen Kleist, Treasurer  
Printed Name and Title

OWNER:

UTILITIES, INC OF FLORIDA  
Name of Owner

Patrick C. Flynn  
By (Signature)

(SEAL)

PATRICK C. FLYNN  
Printed Name and Title

ATTEST:

Michael A. Wilson  
By (Signature)

MICHAEL A. WILSON REG. MGR  
Printed Name and Title

END OF SECTION

00520-3



# ENVIRONMENTAL EQUIPMENT SALES, INC.

Site Development/Water & Wastewater Systems/Underground Utilities/Industrial Construction

Post Office Box 2459  
Riverview, FL 33568

Page No. 1  
of 1 Pages  
PROPOSAL # 1474

State Certified General Contractor CGC061731 (813) 677-6877 Phone  
State Certified Electrical Contractor EC13004251 (813) 677-2605 Fax

<b>PROPOSAL SUBMITTED TO:</b>		PHONE: 407-468-3268	DATE: August 10, 2016
NAME MID COUNTY SERVICES INC.		JOB NAME Emergency Sewer Replacement of Collapsed 8" Gravity Sewer	
STREET: 200 Weathersfield Avenue		STREET: 2299 Spanish Vistas	
CITY/STATE/ZIP: Altamonte Springs, FL 32714		CITY: Dunedin	STATE: FL
CONTACT NAME Michael Wilson, Regional Manager		EMAIL MAWilson@uiwater.com	

We propose to furnish all labor, material and equipment necessary to remove and replace 75lf of damaged and/or collapsed 8" sewer gravity.

## Work to Proceed as Follows:

- 1) Videotape existing conditions prior to starting work and restored conditions after work is completed.
- 2) Remove and relocate aluminum awning and post to a location designed by Utilities Inc personnel. Relocate stored surplus pumps, demo concrete slab and dispose of off-site.
- 3) Locate existing utilities.
- 4) Set up well points for dewatering using Quiet-Pak Diesel Pumps.
- 5) Provide 100% bypass of both 8" lines coming from the West with all necessary piping, plugs and Quiet-Pack Diesel Pumps.
- 6) Provide trench shoring by use of Z sheet piling and solid steel plates. The trench shield will be installed by competent personnel trained and experienced and OSHA certified in proper use of the trench shields, safe excavation practices and soil classification methods will direct and control the use of this trench shield throughout the construction.
- 7) Excavate and remove existing 8" clay damaged gravity sewer main.
- 8) Install 75lf +/- of 8" C-900 SDR18 PVC sewer line.
- 9) Stabilize sewer pipe and excavation by encasing in FDOT 57 pipe bedding material.
- 10) Repair and Replace any damaged or temporary relocated utility piping.
- 11) Grout new sewer lines into structures and rework manhole invert elevations.
- 12) Backfill, compact in 1' lifts and fine grade.
- 13) Seed and mulch all disturbed areas.
- 14) Provide redline asbuilt drawings with pipe location and invert elevation.
- 15) Videotape new gravity main prior to putting into service.
- 16) Cleanup and demobilization.

## NOTES

- 1) This proposal is based on all onsite cut material being useable for structural/pavement areas and trench backfill.
- 2) Does not include any disposal of hazardous, contaminated, materials.
- 3) Does not include any engineering or geotechnical materials testing.

QUOTE-Work to be completed in accordance with the above specifications for the sum of: Forty-Nine Thousand Seven Hundred Dollars and 00/100 (\$49,700.00) with Terms: Net 10 Days after completion.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above and estimate. All agreements are contingent upon strikes, accidents or delays at beyond our control. This proposal subject to acceptance within 15 days and is void thereafter at the option of the undersigned. Delinquency charges of 1 1/2% per month will apply for all delinquent invoices. Collection fees for delinquent accounts, including attorney/collection agency fees and expenses incurred by Environmental Equipment Sales Inc. are the responsibility of the customer.

## ACCEPTANCE OF PROPOSAL

The above prices, specifications, and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

ACCEPTED

Signature: Michael A. Wilson

Date: 8/11/2016

Michael Wilson, Regional Manager

Print Name & Title

Date: 8-10-16

Signature: Brian K. Spicher

Brian K. Spicher, President  
Environmental Equipment Sales Inc.



# Proposal

Sarasota, FL 34240-9703  
226 Field End St.  
www.SPTplumbing.com/CFC58001/ 47-4731308

Date 7/5/2016  
Bid # 16-720

Name / Address	Job Name
Utilities Inc. Michael A. Wilson 200 Weathersfield Avenue Altamonte Springs, FL 32714 813-635-5583	US 19 US 19 & Riviera dr. Dunedin, FL 33763
wade.wood@kimley-horn.com	

Description	Total
Reference: Hydro-Jet cleaning and Inversion Lining Dear Mr. Wood,	16125.00

Specialized Plumbing Technologies proposes to Invert approximately 190' +/- of 8" gravity sanitary sewer line under US 19, from manhole #1 to manhole #2 approximately 190' across US 19.

We propose to furnish material and labor – complete in accordance with the above specifications for a fee of \$16,125.00

Price does not include any MOT responsibility.

Terms: 20% upon signing, balance due at completion.

Please feel free to visit our web site for information regarding Inversion lining at [www.sptplumbing.com](http://www.sptplumbing.com). Please contact our office if you have any further questions or wish to schedule the work to be performed. This quote is valid for 90 days.

Respectfully submitted,

*Justin J. Mizell*

Justin J. Mizell  
SPT Representative

**Total \$16,125.00**

## ACCEPTANCE OF PROPOSAL AND AUTHORIZATION TO PROCEED

The above proposal is accepted and Specialized Plumbing Technologies is authorized to proceed with the work as described and payment is hereby guaranteed as noted above. Please return fax signed authorization to 941-379-2160 or email to [JJM@sptplumbing.com](mailto:JJM@sptplumbing.com).

Date \_\_\_\_\_ P.O. \_\_\_\_\_ Authorized Signature \_\_\_\_\_

Printed Name \_\_\_\_\_ Title \_\_\_\_\_

**\*\*Specialized Plumbing Technologies assumes no liability for any possible damage that could arise due to brittle, deteriorated, or cracked piping that could be uncovered by the hydro-cleaning process. If the pipe is so deteriorated that despite a good faith attempt to line it, it must be excavated, it will be an extra cost change order.\*\***

Phone # 941-379-5118

Fax # 941-379-2160

[www.sptplumbing.com](http://www.sptplumbing.com)

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-20**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

PCF-20 Pennbrooke WTP Electrical Improvements

Held for future use

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-21**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





New Project Number =&gt;

Requested by: Michael Wilson  
Date Requested: 7/22/2011

## Capital Project Add/Change Form

<b>Project Name</b> (30 Characters)	Placida Rd Utility Relocation	<b>Character Count</b>	29
<b>Company</b>	256 - Utilities Inc of Sandalhaven	<b>Co #</b>	256
<b>Business Unit</b>	256100 - Util Inc of Sandalhaven	<b>Co #</b>	256
<b>Project Owner</b>	Michael Wilson		
<b>Project Manager</b>	Michael Wilson		
<b>Project Start Date</b>	10/17/2011		
<b>Estimated Project End Date</b>	12/31/2017		
<b>Budget Owner/RVP</b>			
<b>BU Type</b>			
<b>Region</b>			
<b>State</b>			
<b>Project Type</b>	Other		
<b>Will project replace/retire any assets?</b>	yes		
<b>Estimated Total Project Budget</b>	\$225,000		
<b>Description</b>			
Due to the widening of County Rd. 775 (Placida Rd.) Relocation of approximately 22 conflicts and 6 valve adjustments in County ROW is required. Engineering/design and bid process is required to meet the deadlines of this road widening project. The actual road widening construction is scheduled to start in early 2012 (March/April). The county is scheduling their relocations for thier utilities for late October or early November 2011 according to the project engineer.			
August 2016: Charlotte County staff have indicated to the utility that the contract for the drainage improvements will be let soon (estimated 4Q16), which will require the utility to relocate segments of FM that conflict with the county's planned improvements.			
<b>Justifications &amp; Benefits</b>			
Required relocation of utilities in conflict with county road improvement project.			
<b>Bids Collected / Alternatives Considered</b>			
Need to complete engineering/design and bid process to establish actual project construction costs.			



March 21, 2016

Mike Wilson  
Utilities Inc. of Florida  
aka Utilities Inc. of Florida – Sandalhaven  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Re: Professional Services Agreement for Placida Road Force Main Relocations  
Charlotte County, Florida

Dear Mr. Wilson:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc. of Florida ("Client") for completing the design and construction oversight services for Placida Road Force Main Relocations.

#### **Project Understanding**

Charlotte County and their engineer are in the process of finalizing their design to modify the drainage and add sidewalks along Placida Road, through the Utilities Inc. of Florida – Sandalhaven (UIF – Sandalhaven) service area. The project was previously designed to the 90% completion level; however, the drainage design has changed requiring the plans (done by others) to be updated to accurately reflect the proposed improvements throughout the corridor. The drainage improvements along the eastern right-of-way of Placida Road are affecting the existing 4-inch, 6-inch, and 12-inch force mains owned and operated by UIF – Sandalhaven. There are segments of the force main that are required to be relocated do to conflicts with the proposed stormwater system or the loss of cover caused by new swales. Combined approximately 2,300 LF of force mains are required to be relocated; 500 LF of 4-inch, 1,600 LF of 6-inch, and 200 LF of 12-inch, including adjustments of 3 air release valves. Based on review of the available information, the opinion of probable construction cost is approximately \$250,000, which includes a 20% contingency.

#### **Scope of Services**

##### **Task 1: Preparation of Construction Documents**

- The Consultant will obtain the updated AutoCAD files from the County's engineer to be incorporated into new UIF – Sandalhaven Force Main Relocation Plans. The AutoCAD files will be used to develop the updated construction plans, to maintain a similar base survey and stationing. The construction plans will be prepared on 11"x17" plans. The construction plans will include plan and profiles views of the proposed force main relocations, details, and project specific notes.
- The Consultant will redesign the force main relocations for the areas where the drainage design has changed. Approximately 2,300 linear feet of force main will have to be redesigned based on the changes drainage improvements.
- The Consultant will prepare and submit 90% construction plans and specifications to the Client for review and comment. The 90% submittal will include an opinion of probable construction cost. Two (2) copies of 11"x17" plans and one electronic pdf version will be

provided for review.

- Following review and comment from the Client, the Consultant will meet with the Client in the field to review and discuss. Following the review meeting the Consultant will revise the plans as necessary and bring to the 100% level. Two (2) pdf copies of the 100% submittal, plans specifications, and opinion of probable cost will be submitted to the client.

#### **Opinion of Probable Cost Disclaimer**

Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the Client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. Consultant's services required to bring costs within any limitation established by the Client will be paid for as Additional Services.

#### **Task 2: Permitting**

- The Consultant will assist the Client in applying for the FDEP General Permit. The assistance will consist of completing and submitting forms to FDEP, but does not include studies research, or meetings with the agency not normally required for this type of project. The Consultant makes no warranty that regulatory agencies will issue the permits or approvals required for the project.
- FDEP Permit application fees are included as part of this task.
- The Consultant will provide the Contractor two (2) signed and sealed sets of construction plans for their Charlotte County right-of-way submittal. It shall be the Contractor's responsibility to handle all coordination with Charlotte County. The Consultant will address up to two (2) rounds of comments from the County.

#### **Task 3: Bidding and Construction Oversight**

- CONSULTANT will prepare bid packages consisting of plans, permits, and specifications and will provide bid packages up to five (5) pre-selected contractors.
- Consultant will administer distribution of the bid packages and maintain a log of the issued bid packages.
- Consultant will respond to reasonable Requests for Information (RFIs) and prepare bid addenda as required.
- Consultant will review bid responses, tabulate results, and will provide the Client with a written bid tabulation record along with a selection recommendation.
- Consultant will conduct one (1) pre-construction meeting onsite and prepare meeting minutes.
- Consultant will review required shop drawings in accordance with the Client's standards.
- Consultant will provide conduct four (4) project site visits at appropriate stages of work to observe the progress of the work and report observations to the Client.



March 21, 2016

Mike Wilson  
Utilities Inc. of Florida  
aka Utilities Inc. of Florida – Sandalhaven  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Re: Professional Services Agreement for Placida Road Force Main Relocations  
Charlotte County, Florida

Dear Mr. Wilson:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc. of Florida ("Client") for completing the design and construction oversight services for Placida Road Force Main Relocations.

#### **Project Understanding**

Charlotte County and their engineer are in the process of finalizing their design to modify the drainage and add sidewalks along Placida Road, through the Utilities Inc. of Florida – Sandalhaven (UIF – Sandalhaven) service area. The project was previously designed to the 90% completion level; however, the drainage design has changed requiring the plans (done by others) to be updated to accurately reflect the proposed improvements throughout the corridor. The drainage improvements along the eastern right-of-way of Placida Road are affecting the existing 4-inch, 6-inch, and 12-inch force mains owned and operated by UIF – Sandalhaven. There are segments of the force main that are required to be relocated due to conflicts with the proposed stormwater system or the loss of cover caused by new swales. Combined approximately 2,300 LF of force mains are required to be relocated; 500 LF of 4-inch, 1,600 LF of 6-inch, and 200 LF of 12-inch, including adjustments of 3 air release valves. Based on review of the available information, the opinion of probable construction cost is approximately \$250,000, which includes a 20% contingency.

#### **Scope of Services**

##### **Task 1: Preparation of Construction Documents**

- The Consultant will obtain the updated AutoCAD files from the County's engineer to be incorporated into new UIF – Sandalhaven Force Main Relocation Plans. The AutoCAD files will be used to develop the updated construction plans, to maintain a similar base survey and stationing. The construction plans will be prepared on 11"x17" plans. The construction plans will include plan and profiles views of the proposed force main relocations, details, and project specific notes.
- The Consultant will redesign the force main relocations for the areas where the drainage design has changed. Approximately 2,300 linear feet of force main will have to be redesigned based on the changes drainage improvements.
- The Consultant will prepare and submit 90% construction plans and specifications to the Client for review and comment. The 90% submittal will include an opinion of probable construction cost. Two (2) copies of 11"x17" plans and one electronic pdf version will be



provided for review.

- Following review and comment from the Client, the Consultant will meet with the Client in the field to review and discuss. Following the review meeting the Consultant will revised the plans as necessary and bring to the 100% level. Two (2) pdf copies of the 100% submittal, plans specifications, and opinion of probable cost will be submitted to the client.

#### **Opinion of Probable Cost Disclaimer**

Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the Client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. Consultant's services required to bring costs within any limitation established by the Client will be paid for as Additional Services.

#### **Task 2: Permitting**

- The Consultant will assist the Client in applying for the FDEP General Permit. The assistance will consist of completing and submitting forms to FDEP, but does not include studies research, or meetings with the agency not normally required for this type of project. The Consultant makes no warranty that regulatory agencies will issue the permits or approvals required for the project.
- FDEP Permit application fees are included as part of this task.
- The Consultant will provide the Contractor two (2) signed and sealed sets of construction plans for their Charlotte County right-of-way submittal. It shall be the Contractors responsibility to handle all coordination with Charlotte County. The Consultant will address up to two (2) rounds of comments from the County.

#### **Task 3: Bidding and Construction Oversight**

- CONSULTANT will prepare bid packages consisting of plans, permits, and specifications and will provide bid packages up to five (5) pre-selected contractors.
- Consultant will administer distribution of the bid packages and maintain a log of the issued bid packages.
- Consultant will respond to reasonable Requests for Information (RFIs) and prepare bid addenda as required.
- Consultant will review bid responses, tabulate results, and will provide the Client with a written bid tabulation record along with a selection recommendation.
- Consultant will conduct one (1) pre-construction meeting onsite and prepare meeting minutes.
- Consultant will review required shop drawings in accordance with the Clients standards.
- Consultant will provide conduct four (4) project site visits at appropriate stages of work to observe the progress of the work and report observations to the Client.



- Consultant will prepare and furnish a final set of reproducible record drawings from the surveyed as-builts provided by the Contractor. The record drawings will be updated to the GIS standards currently being developed for UIF's Florida Region.
- Consultant will prepare final certification packages for FDEP.

## Services Not Included

Any other services, including but not limited to the following, are not included in this Agreement:

- Survey
- Environmental
- Geotechnical
- Structural
- Public Involvement

## Information Provided By Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives.

## Responsibilities of Client

In addition to other responsibilities set out in this Agreement, the Client shall provide access to the site.

## Fee and Expenses

Kimley-Horn will perform the services in Tasks 1 - 3 for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Consultant.

Task 1 Construction Plans and Specifications	\$7,324.00
Task 2 Permitting (Includes \$500 Fee)	\$2,989.00
Task 3 Bidding and Construction Services	\$8,856.00
Total Lump Sum Fee	\$19,244.00

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

## Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Utilities Inc. of Florida.

Kimley-Horn, in an effort to expedite invoices and reduce paper waste, submits invoices via email in an Adobe PDF format. We can also provide a paper copy via regular mail if requested. Include

July 22, 2011

Mr. Mike Wilson  
Regional Manager  
Utilities Inc., of Sandalhaven  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Placida Road (CR-775) Force Main Relocation Proposal

Dear Mr. Wilson:

Thank you for the opportunity to present this proposal for the relocations associated with the force mains along CR-775. The County is planning on widening Placida Road from Rotonda Boulevard to just south of Cape Haze Drive. From my discussions with County staff they are currently in the right of way acquisition process and are intending on going out to bid and beginning construction within 6-9 months. Based on our preliminary engineering evaluation, which includes the data from the subsurface utility engineering, sixteen (16) conflicts have been identified as part of the roadway improvements project. In addition these conflicts, there are several ARV's that are recommended to be relocated outside of the proposed edge of pavement.

#### Scope of Services

We have reviewed the design plans for the Placida Road widening and made a preliminary evaluation of the impacts to your existing facilities in the County right of way. We cross referenced the plan sheets with the cross sections and the storm structure sheets, along with the record drawings for the Master Pump Station and associated 12-inch force main to determine where the relocations of your force mains would be necessary.

Based on our review, there appears to be vertical conflicts with the existing 4-inch, 6-inch, and 12-inch force mains. A majority of the conflicts occur at storm crossings. There are some conflicts between the existing force mains and new storm structures. FDEP does not have separation requirements between force mains and storm pipe/structures; however, for construction purposes, it is our recommendation to provide between 12-18-inches separation. Therefore, our engineering evaluation incorporated this separation into our analysis. Since this is a roadway project, it is also recommended to have the contractor identify and survey every crossing as part of his relocation work, to ensure that pipe elevations are known and does not create any unexpected delays during the roadway improvements project.

Plans for these relocations will be developed using the County road widening plans, by converting their Microstation files into AutoCAD files, and using these as the base. The relocation plans will be prepared on 11x17 sheets. This scope of services includes generating the RGB's (red, green brown markups requested by the County's engineers), plans, specifications, and bidding services. The preparation of the necessary FDEP and County permits are also included in this scope, along with any coordination with these entities. This scope of services does include limited construction administration and inspection, certification, as-builts, and the preparation of clearance documents for the FDEP.

Permit fees, such as FDEP and County right-of-way are not included in this scope of services.

Surveying, geotechnical, and environmental services are not included in this scope of services.

#### Payment

Compensation paid Engineer for services described herein and rendered by principals and employees assigned to the project are computed by multiplying Standard Classification Billing Rates for all classifications of employees directly engaged on the project, times the number of hours worked on the project.

The engineering design and construction administration fee for the services, described herein is estimated to be \$29,000.00, including out-of-pocket expenses, without increase. This fee includes converting the roadway engineers Microstation files to AutoCAD, and incorporating the previously design 21-inch force main into these drawings. Based on our past experience with utility relocation projects, this is the most efficient and cost effective way to generate construction plans. Also included in our scope is the preparation of the RGB's, construction plans, permitting, specifications, and bidding services. CPH will provide limited construction administration services that include two (2) site visits, clearances, and preparation of record drawings.

A 10% markup will be applied to subconsultant services coordinated through CPH. Out-of-pocket expenses and subconsultant costs will be specifically identified in periodic invoicing, and include such items as transportation and subsistence of principals and employees when traveling in connection with the project, toll telephone calls, photocopies, blueprints and plots, etc. Invoices will be submitted periodically, indicating the hours expended during that billing cycle.

Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Expenses for items not specifically valued herein are to be reimbursed to the engineer at the actual cost thereof. Said expenses shall include transportation and subsistence of principals and employees, when traveling in connection with the Project, toll telephone calls, and similar project related items.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

#### Terms and Agreement

The Terms and Agreement (Exhibit A - attached) made part of this contract shall apply for the professional services outlined above.

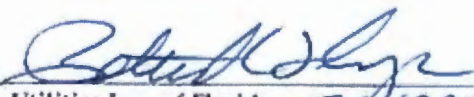
If you have any questions, please do not hesitate to call me at 321-299-2395.

Thank you.

Sincerely,  
CPH ENGINEERS, INC.

W. Wade Wood, P.E.  
Project Manager

ACCEPTED BY:

  
Utilities Inc., of Florida- SANDA L. WAVEN



**Invoice**

CPH Engineers, Inc.  
P.O. Box 2808  
Sanford, FL 32772-2808  
Phone: 407.322.6841  
Fax: 407.330.0639

Mike Wilson  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

November 1, 2011  
Project No: U07701  
Invoice No: 78157

**Engineering Services for Placida Road (CR 775) Force Main Relocation**  
**Professional Services through October 16, 2011**

**Fee**

Total Fee	29,000.00		
Percent Complete	25.8621	Total Earned	7,500.01
		Previous Fee Billing	5,000.01
		Current Fee Billing	2,500.00
		<b>Total Fee</b>	<b>2,500.00</b>
		<b>Total this Invoice</b>	<b>\$2,500.00</b>

**Outstanding Invoices**

Number	Date	Balance
77784	10/03/11	2,000.02
<b>Total</b>		<b>2,000.02</b>

Services provided this period include:

Coordination with roadway engineer to receive plans and development of utility relocation plans.

CPH Engineers, Inc. 

PO # 97147  
Bu # 256100

RECEIVED

NOV 08 2011

**Invoice**

CPH Engineers, Inc.  
P.O. Box 2808  
Sanford, FL 32772-2808  
Phone: 407.322.6841  
Fax: 407.330.0639

Mike Wilson  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

October 3, 2011  
Project No: U07701  
Invoice No: 77784

**Engineering Services for Placida Road (CR 775) Force Main Relocation  
Professional Services through September 18, 2011**

**Fee**

Total Fee	29,000.00		
Percent Complete	17.2414	Total Earned	5,000.01
		Previous Fee Billing	2,999.99
		Current Fee Billing	2,000.02
		<b>Total Fee</b>	<b>2,000.02</b>
		<b>Total this Invoice</b>	<b>\$2,000.02</b>

Services provided this period include:

Coordination with roadway engineer to receive plans and development of utility relocation plans.

CPH Engineers, Inc. \_\_\_\_\_

PO# 97147  
BU# 256100

RECEIVED  
OCT 06 2011

97147



UTILITIES INC. OF SANDALHAVEN  
PLACIDA ROAD FORCE MAIN RELOCATIONS OPINION OF PROBABLE CONSTRUCTION COST

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
<b>General Requirements</b>				
Mobilization	1	LS	\$13,475.00	\$13,475.00
Maintenance of Traffic	1	LS	\$5,862.50	\$5,862.50
<b>Force Main Relocations</b>				
4-Inch PVC Force Main	410	LF	\$25.00	\$10,250.00
6-Inch PVC Force Main	1850	LF	\$35.00	\$64,750.00
6-Inch HDPE Force Main	325	LF	\$60.00	\$19,500.00
Lower Existing 12-Inch HDPE Force Main	180	LF	\$40.00	\$7,200.00
4-Inch Plug Valve	3	EA	\$1,850.00	\$5,550.00
6-Inch Plug Valve	2	EA	\$2,250.00	\$4,500.00
4-Inch Tapping Sleeve & Valve	1	EA	\$5,500.00	\$5,500.00
Valve Box Adjustment	5	EA	\$1,500.00	\$7,500.00
Restoration	1	LS	\$10,000.00	\$10,000.00
			<b>Total</b>	\$154,087.50
			<b>Contingency</b>	<u>\$20,000.00</u>
			<b>Project Total</b>	<b>\$174,087.50</b>

**Invoice**

CPH Engineers, Inc.  
P.O. Box 2808  
Sanford, FL 32772-2808  
Phone: 407.322.6841  
Fax: 407.330.0639

Mike Wilson  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

April 11, 2012  
Project No: U07701  
Invoice No: 80120

Engineering Services for Placida Road (CR 775) Force Main Relocation  
Professional Services through March 18, 2012

**Fee**

Total Fee	29,000.00		
Percent Complete	83.00	Total Earned	24,070.00
		Previous Fee Billing	23,200.00
		Current Fee Billing	870.00
		<b>Total Fee</b>	<b>870.00</b>
		<b>Total this Invoice</b>	<b>\$870.00</b>

**Outstanding Invoices**

Number	Date	Balance
78940	1/6/2012	8,502.19
<b>Total</b>		<b>8,502.19</b>

Services provided this period include:

Design

PO # 106319  
Bu # 256100

CPH Engineers, Inc.

RECEIVED  
APR 17 2012

**Invoice**

CPH Engineers, Inc.  
P.O. Box 2808  
Sanford, FL 32772-2808  
Phone: 407.322.6841  
Fax: 407.330.0639

Mike Wilson  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

August 08, 2012  
Project No: U07701  
Invoice No: 81331

Engineering Services for Placida Road (CR 775) Force Main Relocation  
Professional Services through July 15, 2012

**Fee**

Total Fee	29,000.00		
Percent Complete	100.00	Total Earned	29,000.00
		Previous Fee Billing	27,069.99
		Current Fee Billing	1,930.01
		<b>Total Fee</b>	<b>1,930.01</b>
		<b>Total this Invoice</b>	<b>\$1,930.01</b>

CPH Engineers, Inc.

PO # 114999  
BL# 256100

W  
8/20/12

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-22**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #

Requested by:

Bryan K. Gongre

Date:

8/16/2016

Project Manager / Area Manager

Project Name:

Autumn Dr. WM Replacement

Company:

255

Sanlando Utilities Corp

Business Unit:

255100

Sanlando Utilities Corp W

Project Owner:

Bryan K. Gongre

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP:

John Hoy

03

Start Date:

8/29/2016

Q3 2016

Region:

Florida

04

Estimated End Date:

10/1/2016

Q4 2016

State:

FL

Project Type:

Maintenance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$98,970

Still to be Requested:

Total Project Budget:

\$98,970

## Description:

Replace approximately 900 LF of 6" Class PVC water main with 6" HDPE. Reconnect fire hydrant assembly and (2) 2" PVC water mains servicing two cul-de-sacs. Install 16 water services and reconnect to existing water meters. Cut, cap and abandon in place the existing 6" water main.

## Timeline Considerations:

There is an extensive history of multiple water main breaks on Autumn Drive that generated insurance claims related to property damage at customers' homes. Future occurrences are imminent. Therefore, the work needs to be performed expeditiously so as to avoid additional property damages from occurring.

Inter-dependant Project

Project Number:

NA

Project Name

(If applicable)

Have engineering evaluations been performed?

No

Engineering project number

(If applicable)



**Justification and Benefits:**

There have been at least five water main breaks on Autumn Drive since 2015. The stormwater conveyance system on Autumn Drive and other areas in The Springs subdivision is mainly overland flow. In this particular area the topography is sloped such that water flows between two townhomes and then to a small stormwater pond. Over time the stormwater pond design has been altered, mainly by erosion, such that water caused by a water main failure is now diverted toward a resident's pool at the rear of his Autumn Drive home allowing dirt and debris to fill the pool. The diversion of water between the two townhomes has also caused the garage of one of the units to be flooded. Of the five instances where water main breaks have occurred, three have resulted in liability insurance claims and significant costs to replace asphalt driveways, irrigation systems and landscape material. One such instance involved a newer Chevrolet pick up truck falling into a hole where the water main broke and the pavement gave way.

The existing PVC material is white Class 160 or Class 200 PVC water main installed in the mid to late 1970's, which has a much thinner wall thickness than C-900 PVC. When making repairs, utility staff has observed a great degree of deflection in the pipe making the repair activity difficult when realigning the pipe. The breaks in this area appear to be related to stress caused by over-deflected water main sections when it was originally installed.

**Risk Evaluation**

As stated above, these water main failures have resulted in numerous liability claims. The frequency of pipe failures and the consequences of the failures causes a nuisance to the customers. Additionally, Precautionary Boil Water Notices are issued due to the outages and repairs. Without replacement, it is apparent that future pipe failures in this subdivision will continue to occur.

**Alternatives Considered:**

Two methods were evaluated; 1) Open cut excavation - The roadways in The Springs are privately owned by the community and there is no right-of-way meaning that the residents install landscaping material as they please within community standards. The tree canopy is very extensive and mature in this area as well. For these reasons, open cut is an option but constructability is extremely difficult and costly.

2) Horizontal Directional Drilling (HDD) - This method will allow for subsurface installation and significantly avoid damaging landscape material. This reduces restoration costs and inconvenience to the customers.

Of the two methods, HDD, is the preferred option.

**Technical Review Summary:**

This project was presented to the CPRT on 8/18/2016. No changes were suggested.

## Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

### Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
98,970				
98,970				
-	-	-	-	-
98,970	98,970	98,970	98,970	98,970

(if applicable)

O&M Cost Impact B/(W)

--	--	--	--	--

## Financial Justification

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(1.15)	\$ (1.15)
10,280	10,280

## Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-
(2,474)	(4,949)	(4,949)	(4,949)	(4,949)
(1,809)	(6,866)	(6,495)	(6,124)	(5,753)
(4,284)	(11,815)	(11,443)	(11,072)	(10,701)

## Timing and Supporting Information on Rate Recovery

This is a pro-forma project included in the current 2016 consolidated UIF rate filing. Recovery is projected to occur in a timely manner.

## Regulatory Plan Implications

The project is in the current capital plan.

## Assumptions

**BID INFORMATION AND BUDGET BREAKDOWN**

Have three bids been received?

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$109,130	No
2	Tri-Sure Corp.	\$98,970	Yes
3	Central Florida Tapping	\$103,020	No

**Component:****Amount**

Value Bid Elements

98,970.00

should match amount awarded. Input in dollars.

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

**Total Project Budget****98,970.00**

should match Total Budget on General Information

**Object Account(s) to which project will be closed:**

Trans &amp; Distr Mains

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)**General Comments:**

The original pipe was installed in the early to mid 1970's by the developer of The Springs. Therefore, the pipe is approximately 43 years old and was developer contributed.



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/19/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns well with the utility's asset management plan and meets all technical requirements.

### Technical Peer Review

Review Sponsored by Patrick Flynn Date Held 8/18/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

No suggested changes. Approved as submitted.

### FP&A Review

Review Completed by JH/BG Date: 8/23/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/18/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/24/2016 ☒

President: John P. Hoy Date: 8/24/2016 ☒

### Approval or Re-Direction Comments

None.



P.O. Box 521279  
Longwood, FL 32752-1279  
Phone: 407-834-8271  
Fax: 407-834-3859

CU C055705  
CB C045652  
CONT. V 13942900011997

February 26, 2016

John Marinelli  
Utilities, Inc.  
200 Weathersfield Ave.  
Altamonte Springs, Fl. 32714-4027

**Re: Autumn Drive**

Dear John,

We propose the following to replace the water main and appurtenances on Autumn Drive in the Springs,

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1	Mob., Demob	1	LS	\$ 3,980.00	\$ 3,980.00
2	Exploratory Excavation	1	LS	\$ 3,775.00	\$ 3,775.00
3	6" Direction Drill	900	LF	\$ 52.00	\$ 46,800.00
4	Connect To Existing	2	EA	\$ 4,310.00	\$ 8,620.00
5	Testing	1	LS	\$ 4,620.00	\$ 4,620.00
6	Reconnect Fire Hydrant	1	EA	\$ 2,960.00	\$ 2,960.00
7	Reconnect 2"	2	EA	\$ 1,550.00	\$ 3,100.00
8	Reconnect Water Services	16	EA	\$ 1,260.00	\$ 20,160.00
9	Abandon Existing	1	LS	\$ 3,040.00	\$ 3,040.00
10	Dress	1	LS	\$ 5,965.00	\$ 5,965.00
<b>Total</b>					<b>\$ 103,020.00</b>

As discussed we're including no restoration, dewatering or permitting and you will provide a disposal site for the bore slurry.

Sincerely,

Rick Bullington



TRAVERSE GROUP, INC.

PO BOX 121754  
CLERMONT, FL 34712

# Estimate

Date	Estimate #
8/15/2016	2016UI38

Name / Address
UTILITIES, INC. OF FLORIDA 200 WEATHERSFIELD AVENUE ALTAMONTE SPRINGS, FL 32714

Project
AUTUMN DRIVE

Description	Qty	Units	Rate	Total
AUTUMN DRIVE				
Mobilization & Demo	1	LS	19,500.00	19,500.00
Exploratory Excavation	1	LS	6,500.00	6,500.00
6" Directional Drill	900	LF	51.00	45,900.00
Connect to Existing	2	EA	2,500.00	5,000.00
Testing	1	LS	2,500.00	2,500.00
Reconnect Fire Hydrant	1	EA	2,100.00	2,100.00
Reconnect 2"	1	EA	1,630.13	1,630.13
Reconnect Water Services	16	EA	750.00	12,000.00
Abandon Existing	1	LS	12,500.00	12,500.00
Dress	1	LS	1,500.00	1,500.00
<b>Total</b>				\$109,130.13



# TRI-SURE CORPORATION

POST OFFICE BOX 553  
AUBURNDALE, FLORIDA 33823

TELEPHONE (863) 967-5506  
FAX (863) 551-9746

August 11, 2016

Bryan K. Gongre, Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714  
866.842.8432, extension 1360  
Fax 407.869.6961  
[bkgongre@uiwater.com](mailto:bkgongre@uiwater.com)

As per your request Tri-Sure is pleased to bid on the following:

1	Mob., Demob	1	LS	\$ 15,000.00	\$ 16,500.00
2	Exploratory Excavation	1	LS	\$ 20,000.00	\$ 20,000.00
3	6" Direction Drill	900	LF	\$ 40.00	\$ 36,000.00
4	Connect To Existing	2	EA	\$ 2,500.00	\$ 5,000.00
5	Testing	1	LS	\$ 2,500.00	\$ 2,500.00
6	Reconnect Fire Hydrant	1	EA	\$ 1,570.00	\$ 1,570.00
7	Reconnect 2"	2	EA	\$ 750.00	\$ 1,500.00
8	Reconnect Water Services	16	EA	\$ 900.00	\$ 14,400.00
9	Abandon Existing	1	LS	\$ 500.00	\$ 500.00
10	Dress	1	LS	\$ 2,500.00	\$ 1,000.00
Total					\$ 98,970.00

Autumn Drive 6" WM replacement

This is a lump sum price for the quantities as described above. Prices are for comparison purposes only. Additional quantities to be billed as negotiated.

Thank you for the opportunity to bid on this project.



Jason Chambers

**SECTION 00520**

**AGREEMENT FORM**

**PART 1 GENERAL**

**1.01 THIS AGREEMENT**, made this 23rd day of August, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Tri Sure Corporation, doing business as a \_\_\_\_\_ and hereinafter called the Contractor.

**1.02 The Owner and Contractor agree as follows:**

**A. Contract Documents**

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

**B. Scope of Work**

The Contractor shall perform all work required by the Contract Documents for the construction of the Autumn Drive Water Main Replacement

**C. Contract Time**

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 45 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of Ninety eight thousand nine hundred seventy dollars & 00/100's Dollars (\$ 98,970.00). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Tri-Sure Corporation  
Name of Firm

Jason Chambers  
By (Signature)

(SEAL)

Jason Chambers, President  
Printed Name and Title

ATTEST:

Ken Chambers  
By (Signature)

Kerri Chambers (Secretary)  
Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner

Bryan K. Gongre  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

Lisa August  
By (Signature)

LISA AUGUST  
Printed Name and Title

END OF SECTION



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-23**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



April 25<sup>th</sup>, 2016

Mr. Bryan K. Gongre  
Regional Manager  
Utilities, Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Re: RTU Additions Sanlando Lift Stations  
Utilities Inc. of Florida

Dear Mr. Gongre:

We are pleased to submit our proposal for engineering design and construction services for the above project. The following provides an overview of the engineering services Bailey Engineering Consultants, Inc. (BEC) intends to furnish to Utilities, Inc. of Florida (UI) and a lump sum fee amount to provide these services. Our fee shall include completed drawings for the work, covering all phases of our design in an AutoCAD 2015 format, project specifications and opinion of probable cost for the work performed under this agreement. An overview of the work to be performed for the electrical and instrumentation design is as outlined below:

Task I - Design Services

1. Design for the installation of UI standard RTUs at all Sanlando Lift Stations (55 total).
2. BEC will visit each station and note condition of existing station and define the general requirements for the RTU installation with detail suitable for bidding.
3. BEC will prepare bid advertisement and review all bids.
4. BEC will specifications as required. All RTUs will be furnished by ScadaOne.

Task II – Construction Services

- A. Bailey Engineering Consultants, Inc. (BEC) will perform project administration and provide professional services during the construction phase that will implement the facility modifications. By performing these services, BEC shall not have authority or responsibility to supervise, direct, or control the Contractor's work or the Contractor's means and methods, techniques, sequences, or procedures of construction. BEC shall not have authority or responsibility for safety precautions and programs incident to the Contractor's work or for any failure of the Contractor to comply with laws, regulations,

10620 GRIFFIN ROAD, SUITE 202 • COOPER CITY, FL • 33328  
PHONE: 954-448-7930 • FAX: 954-713-9959


rules, ordinances, codes, or orders applicable to the Contractor furnishing and performing the work. Consultant reviews shall not relieve the Contractor of any of his contractual responsibilities. Specific services to be performed by Consultant are as follows:

- 1) Shop Drawing Review - Review and approve (or take other appropriate action in respect of) Shop Drawings and samples, the results of tests and inspections and other data which each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents (but such review and approval or other action shall not exceed to means, methods, sequences, techniques or procedures of construction or to safety precautions and programs incident thereto); and receive and review (for general content as required by the Specifications) maintenance and operating schedules and instruction, guarantees, bonds and certificates of inspection which are to be assembled by Contractor(s) in accordance with the Contract Documents.
- 2) Issue Clarifications - Issue all instructions of OWNER to Contractor(s); issue necessary interpretations and clarifications of the Contract Documents; have authority, as OWNER's representative to require special inspection or testing of the work; act as initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder, and make decisions on all claims of OWNER and Contractor(s) relating to the acceptability of the work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the work. The ENGINEER shall render all interpretations or decisions in good faith and in accordance with the requirements of the Contract Documents.
- 3) Site Visits - Make six (6) visits to each lift station upon final construction completion to observe, as an experienced and qualified professional, the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the Contract Documents. ENGINEER shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by Contractor(s) or the safety precautions and programs incident to the work of Contractor(s). ENGINEER's efforts will be directed toward providing a greater degree of confidence for OWNER that the completed work of Contractor(s) will conform to the Contract Drawings, but ENGINEER shall not be responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Drawings. During such visits and on the basis of on-site observations, ENGINEER shall keep OWNER informed of the progress of the work, shall endeavor to guard OWNER against defects and deficiencies in such work and may disapprove or reject work failing to conform to the Contract Documents. Consultant will provide to the City a list of items to be completed, if any.

SUPPLEMENTAL SERVICES - Any work requested by the Owner that is not included in one of the items listed in any other phase will be classified as supplemental services. Tasks No. 1 and 2 will be performed on a lump sum basis. Travel to and from the site and other direct costs are included in the overhead rate and will not be billed as a separate line item. Our fee for this work shall be as follows:

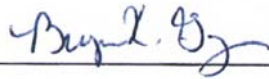
Task 1-Design Services	
When plans are 100% complete	\$ 16,400.00
Task 2-Construction Services	\$ 9,800.00
Total:	<u>\$ 26,200.00</u>

Very truly yours,



Stephen E. Bailey, P.E.

ACCEPTED



DATE

4/25/2016

UI-16-001DG

RECEIVED  
JUN 13 2016



Bill To:

Utilities Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714  
Attn: Bryan K. Gongre

3006381  
PO# 216828  
Receipt# 226579

## Invoice

Date	Invoice #
6/7/2016	UI16001.1
BEC Project #	Client Project #
UI16001	

Description	Contract Amount	Previously Invoiced	% Complete	Current Amount
RTU Additions Sanlando Lift Stations Utilities Inc. of Florida				
Task 1 - Design Services	16,400.00		30.00%	4,920.00
Task 2 - Construction Services	9,800.00		0.00%	0.00

Payments/Credits

\$0.00

**Current Amount Due**

\$4,920.00

8401 Lake Worth Road, Suite 220, Lake Worth, FL 33467  
Voice: (561) 819-0488 Fax: (561) 819-5557 Web: [www.baileyengineering.com](http://www.baileyengineering.com)



3006381  
 PO# 214499  
 Recpt# 229139



RECEIVED  
 JUL 11 2016

**Bill To:**

Utilities Inc. of Florida  
 200 Weathersfield Avenue  
 Altamonte Springs, FL 32714  
 Attn: Bryan K. Gongre

# Invoice

Date	Invoice #
7/5/2016	UI16001.2
BEC Project #	Client Project #
UI16001	

Description	Contract Amount	Previously Invoiced	% Complete	Current Amount
RTU Additions Sanlando Lift Stations Utilities Inc. of Florida				
Task 1 - Design Services	16,400.00	4,920.00	60.00%	4,920.00
Task 2 - Construction Services	9,800.00		0.00%	0.00

**Payments/Credits**

\$0.00

**Current Amount Due**

\$4,920.00

8401 Lake Worth Road, Suite 220, Lake Worth, FL 33467  
 Voice: (561) 819-0488 Fax: (561) 819-5557 Web: [www.baileyengineering.com](http://www.baileyengineering.com)

SEP 12 2016



Utilities Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714  
Attn: Bryan K. Gongre

3006381  
PO# 224822  
Rec# 234597

# Invoice

Date	Invoice #
9/7/2016	UI16001.3
BEC Project #	Client Project #
UI16001	

[illegible]

\$0.00

\$4,920.00

8401 Lake Worth Road, Suite 220, Lake Worth, FL 33467  
Voice: (561) 819-0488 Fax: (561) 819-5557 Web: [www.baileyengineering.com](http://www.baileyengineering.com)

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-24**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida<sup>8</sup>**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2016041

Requested by:

Bryan K. Gongre

Date: 3/22/2016

Project Manager / Area Manager

Project Name:

Markham Woods Rd WM Relocation

Company:

255

Sanlando Utilities Corp

Business Unit:

255100

Sanlando Utilities Corp W

Project Owner:

Bryan K. Gongre

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP: John Hoy

03

Start Date:

3/28/2016

Q1 2016

Region:

Florida

04

Estimated End Date:

5/31/2016

Q2 2016

State:

FL

Project Type:

EH&amp;S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$65,900

Still to be Requested:

Total Project Budget:

\$65,900

## Description:

Relocate approximately 240LF of 10" water main, (3) 10" Gate valves and (1) 6" Gate valve that are in conflict with Seminole County's design plans to extend the existing turn lane on Markham Woods Road.

## Timeline Considerations:

Our facilities must be relocated prior to the County's contractor performing the road improvements. The project has been placed out to bid by the County. Bids are to be received within 30 days.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

NA

(If applicable)

**Justification and Benefits:**

Our facilities are located within the Seminole County Right of Way and as such must be relocated under the terms and conditions of the existing Right of Way permit. The existing water main is concrete asbestos and is required to be removed after the new PVC water main is placed service. The County requires pipe to be removed that lies beneath heavy use traffic lanes. The concrete asbestos pipe will be disposed of by a certified abatement contractor.

**Risk Evaluation****Alternatives Considered:**

The existing water main is within the County Right of Way and subject to the conditions of the County's permit conditions. Refusal to relocate and remove the pipe would mean receiving a notice to vacate the Right of Way issued by the County. Open cut and replace is the most cost effective approach and will be the direction taken under this project.

**Technical Review Summary:**

Presented to and passed CPRT on 3/24/2016. No revisions required.





## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	65,900				
Project Spend in Current Plan	65,900				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	65,900	65,900	65,900	65,900	65,900

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--	--

### Financial Justification

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(0.46)	(0.46)
13,854	13,854

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(412)	(1,618)	(1,618)	(1,648)	(1,648)
Under-recovery on capital B/(W)	(4,912)	(4,788)	(4,664)	(4,541)	(4,417)
Net EBIT Impact B/(W)	(5,323)	(6,436)	(6,312)	(6,188)	(6,065)

### Timing and Supporting Information on Rate Recovery

This is a pro forma project with recovery scheduled to take place during the 2016 rate consolidation filing in June.

### Regulatory Plan Implications

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Central Florida Tapping & Construction Services	\$58,400	Yes
2			
3			

### Component:

### Amount

Value Bid Elements

58,400.00

SHOULD BE THE TOTAL OF ALL BIDS

Engineering

7,500.00

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Total Project Budget

65,900.00

SHOULD BE THE TOTAL BUDGET ON GENERAL INFORMATION

Object Account(s) to which project will be closed:

1125

Trans & Distr Mains

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

There was only one bid obtained as the project is under \$75,000.00. The costs are line with expectations and contractor availability with the County's time constraints are limiting.



## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

3/24/2016

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by

Christie Kincaid

Date:

3/25/2016

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan K. Gongre

Date:

3/24/2016

☒

VP Operations:

Patrick C. Flynn

Date:

3/25/2016

☒

President:

Date:

☐

### Approval or Re-Direction Comments



1117 East Robinson Street  
Orlando, Florida 32801

Phone: 407.425.0452  
Fax: 407.648.1036

[www.cphengineers.com](http://www.cphengineers.com)

January 26, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida-Sanlando  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Markham Woods Road Utility Adjustments (Seminole County CIP NO. 1916-90) Proposal

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services related to the utility relocations along Markham Woods Road due to the planned County construction of a new Turn Lane. Following review of the County 90% roadway plans it appears there are approximately 200 lineal feet of existing water main and two connections in conflict with roadway improvements that require relocation.

This scope of services includes reviewing Seminole County plans, preparing construction plans (cover sheet, notes, plan view, and details) related to utility conflicts and relocations prepare FDEP notification letter, provide bidding assistance, and limited post design services indicated in the attached spreadsheet. The 100% County roadway plans will be used as a base design file to allow the relocations to match the County sheets for accurate referencing. The Utility's standard notes and details will be incorporated into the plans to ensure the utilities are constructed in accordance with the Utility's standards. Plans will be prepared for review at the 90% and Final completion levels. Further detail for each phase and task is provided on the attached man hour's spreadsheet(s).

Environmental services are not included in this scope. Surveying and utility locates are not included in this scope of services. Locates will be called for on the plans for the contractor to field verify. Any required surveying will be additional to this contract. Geotechnical services are not included in the scope of services.

#### **Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Preparing to serve as an expert witness for the Owner in any protest, litigation, or other proceeding involving the project.

Additional engineering services required by revisions to regulations (after the date of this contract) as applicable to the Florida Department of Environmental Protection, the St. Johns River Water Management District, or other regulatory agency requirements.

Provide, through a subconsultant, additional surveying services if required or requested by the Owner.

Provide, through a subconsultant, additional soils investigation services if required or requested by the Owner.

J:\Z6582\Proposals\Util Inc\Markham Woods Road Turn Lane\Scope Draft.doc





### Payment

The engineering design lump sum fee for the services, described herein is estimated to be \$7,500.00, including out of pocket expenses. The time and materials amount is estimated based on the review of County 90% plans and assumed relocations provided at the time of this scope of services.

Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

Sincerely,  
CPH, Inc.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

ACCEPTED BY:  
Utilities Inc. of Florida

Date: 1/26/16



FILED  
MAR 13 2016



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

**Invoice**

3002421  
PO# 209649  
Rep# 219210

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

March 8, 2016  
Project No: U07145  
Invoice No: 96808

Markham Woods Road Utility Adjustments  
@ Markham Woods Road, Longwood, FL- Seminole County

**Professional Services through February 7, 2016**

**Fee**

Total Fee	7,500.00		
Percent Complete	25.00	Total Earned	1,875.00
		Previous Fee Billing	0.00
		Current Fee Billing	1,875.00
		<b>Total Fee</b>	<b>1,875.00</b>
		<b>Total this Invoice</b>	<b>\$1,875.00</b>

Services provided this period include:

Plans in progress

CPH, Inc.

*Kamran Khattar*

RECEIVED  
APR 14 2016



Invoice

3002421  
PD# 210772  
Recpt# 222241

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

April 7, 2016  
Project No: U07145  
Invoice No: 97260

Markham Woods Road Utility Adjustments  
Markham Woods Road, Longwood, FL- Seminole County

Professional Services through March 13, 2016

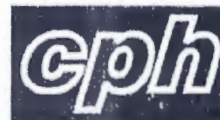
Fee

Total Fee	7,500.00		
Percent Complete	65.00	Total Earned	4,875.00
		Previous Fee Billing	1,875.00
		Current Fee Billing	3,000.00
		<b>Total Fee</b>	<b>3,000.00</b>
		<b>Total this Invoice</b>	<b>\$3,000.00</b>

Services provided this period include:

Pending Construction

CPH, Inc.



500 West Fulton Street  
Sanford, Florida 32771  
Phone: 407.322.6841

Invoice

3002421  
PO# 210712  
Rec# 237201

Bryan Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

August 22, 2016  
Project No: U07145  
Invoice No: 99223

Markham Woods Road Utility Adjustments  
Markham Woods Road, Longwood, FL- Seminole County  
Professional Services through August 22, 2016

Fee

Total Fee	7,500.00		
Percent Complete	100.00	Total Earned	7,500.00
		Previous Fee Billing	4,875.00
		Current Fee Billing	2,625.00
		Total Fee	2,625.00
		Total this Invoice	\$2,625.00

Services provided this period include:

Project Complete

CPH, Inc.

**Central Florida Tapping**

Longwood, FL 32752-1279

PO Box 521279

3001866  
PO# 210770  
Reqt# 225532

DATE	INVOICE #
5/31/2016	04.6115

**BILL TO**Utilities Inc of Florida  
200 Westerfield Avenue  
Altamonte Springs, FL 32714-4027**JOB LOCATION**Markham Woods Road  
WM Relocation

centralfloridatapping.com

Phone #

Fax #

407-834-8271

407-834-3859

PO NUMBER

TERMS

CFT JOB NO

16.4852

QUANTITY	DESCRIPTION	RATE	AMOUNT
1	Pay Request No. 1	42,214.50	42,214.50
Thank You, Rick			
Thank You For Your Business. We Appreciate It.		<b>Total</b>	\$42,214.50

**Central Florida Tapping**

Longwood, FL 32752-1279  
PO Box 521279

3001866  
PD# 210770  
Receipt 226738

DATE	INVOICE #
6/14/2016	06.6138

BILL TO

Utilities Inc of Florida  
200 Westerfield Avenue  
Altamonte Springs, FL 32714-4027

JOB LOCATION

Markham Woods Road

centralfloridatapping.com

Phone #

Fax #

407-834-8271

407-834-3859

PO NUMBER	TERMS	CFT JOB NO
	Net 30 Days	16.4852

QUANTITY	DESCRIPTION	RATE	AMOUNT
1	Pay Request No. 2 Final	12,130.50	12,130.50
Thank You Rick			



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-25**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2016057

Requested by:

Bryan K. Gongre

Date:

4/21/2016

Project Manager / Area Manager

Project Name:

Myrtle Lake Hills WM

Company:

255

Sanlando Utilities Corp

Business Unit:

255100

Sanlando Utilities Corp W

Project Owner:

Bryan K. Gongre

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP: John Hoy

03

Start Date:

5/2/2016

Q2 2016

Region:

Florida

04

Estimated End Date:

10/30/2016

Q4 2016

State:

FL

Project Type:

Growth

Will project replace/retire any assets:

No

Previously Requested:

This Request:

\$695,450

Still to be Requested:

Total Project Budget:

\$695,450

## Description:

The project includes legal fees, legal description, maps, revised service area map, design, permitting and construction to provide potable water service and fire protection to 111 home and 5 unimproved homesites within the existing Myrtle Lake Hills subdivision in Longwood, FL

## Timeline Considerations:

The future customers have been apprised of the Utility's schedule and progress since inception with the intent to provide potable service by October 30, 2016.

Inter-dependant Project

Project Number:

NA

Project Name

NA

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

NA

(If applicable)

**Justification and Benefits:**

The Myrtle Lake Hills subdivision is located within unincorporated Seminole County immediately adjacent to the Sanlando service area. There 116 lots within the subdivision with 5 of the lots being unimproved. The 111 single family homes rely on private wells that are failing as a result of decreases in the aquifer level from which the wells draw their supply and/or from inferior water quality caused by soluble iron. In May 2014, the residents declined to support a proposed Seminole County water main project that would have provided an alternative water supply. Immediately thereafter, the community approached Sanlando to determine whether the Utility would consider extending water service to the subdivision. After surveying the community, the Utility received enough favorable responses to warrant proceeding with a petition to expand the Sanlando service area to encompass the 116 lots. On April 11, 2016 the FPSC consummating order was issued amending the service territory. The engineering, design and FDEP permitting has been completed. The project has been bid and is awaiting to be awarded to the apparent low bidder. This project provides for an organic growth opportunity creating additional revenue that utilizes available water production and treatment capacity to serve the future customers. Residents will be provided a consistent, safe drinking water supply and likely will benefit from reduced property insurance premiums by having fire flow available from nearby hydrants.

**Risk Evaluation**

Risk lies in the participation rate of the existing homeowners in paying their perspective cost share to obtain service. Of the 111 existing homeowners, 59 are willing to sign up and pay their cost share prior to actual construction that will cover approximately half of the project cost. Thirty one (31) residents are willing to participate in the future and 21 are noncommittal. The FPSC supports the Utility add the capital investment of the project to the Sanlando rate base as 100% used and useful. As future customers make application and pay the applicable connection fees established by the PSC for this specific project, the cash CIAC will be credited against rate base.

**Alternatives Considered:**

Do nothing if the FPSC hadn't treated the Utility fairly in the recovery process, did not establish a main extension charge specific to Myrtle Lake Hills future customers, or did not approve the expansion of the Sanlando service area. However, this was not the case.

**Technical Review Summary:**

This project was presented to the CPRT on 4/28/2016. Nothing was specifically mentioned that required revision.

## Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	695,450				
Project Spend in Current Plan	695,450				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	695,450	695,450	695,450	695,450	695,450

(if applicable)

## O&M Cost Impact B/(W)

--	--	--	--	--	--

## Financial Justification

The CIAC collected before the project is completed and placed into service will reduce the net rate base associated with the project. Existing Sanlando customers will benefit due to the improvements to the distribution system once the project is placed into service including having a looped system to an area that is currently supplied through a single 8" water main and by installing a hydrant at Canal Point Road and Myrtle Drive that will provide fire flow to an area that has none now.

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(6.09)	(6.09)
11,152	11,152

## Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(4,347)	(17,386)	(17,386)	(17,386)	(17,386)
Under-recovery on capital B/(W)	(12,958)	(50,529)	(49,225)	(47,921)	(46,617)
Net EBIT Impact B/(W)	(17,305)	(67,915)	(66,611)	(65,307)	(64,003)

## Timing and Supporting Information on Rate Recovery

This project is in the 2016 cap plan and is a pro-forma project included in the 2016 consolidated rate case that will allow for prompt recovery. A significant percentage of the 111 homeowners are expected to apply for water service before the project is completed with main extension charges and plant capacity charges credited to rate base.

## Regulatory Plan Implications

The project is in the 2016 cap plan.

## Assumptions



**Yes**

Bid	Company	Amount	Selected
1	CFT	\$659,450	Yes
2	Traverse Group	\$685,090	No
3	ECO-2000	\$710,832	No

Value Bid Elements	659,450.00
Engineering	20,000.00
Direct Purchase of Parts / Materials	
Landscaping / Site Restoration	
Other Components (specify):	
Cap Time	
Legal Description & Amended Service Area Maps	6,000.00
Legal Fees	10,000.00

**695,450.00**

1125

1130

1145

select from dropdown list

There are no retirements associated with this project.





## Approvals

### EAM Prime Review

Review Completed by  Date:

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

### Technical Peer Review

Review Sponsored by  Date Held

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by  Date:

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:  Date:  ☒

VP Operations:  Date:  ☒

President:  Date:  ☒

### Approval or Re-Direction Comments

MYRTLE LAKE HILLS WATER MAIN BID TABULATION									
	DESCRIPTION	QUANTITY		Central Florida Tapping		Traverse		ECO 2000	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	Mobilization/General Conditions	1	LS	\$20,000.00	\$20,000.00	\$25,500.00	\$25,500.00	\$33,850.00	\$33,850.00
2	Preconstruction Video	1	LS	\$1,890.00	\$1,890.00	\$3,200.00	\$3,200.00	\$3,296.00	\$3,296.00
3	2" C900 DR 18 Pipe	700	LF	\$29.00	\$20,300.00	\$17.00	\$11,900.00	\$28.00	\$19,600.00
4	4" C900 DR 18 Pipe	1,700	LF	\$37.00	\$62,900.00	\$19.00	\$32,300.00	\$36.00	\$61,200.00
5	6" C900 DR 18 Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	4,200	LF	\$39.00	\$163,800.00	\$39.00	\$163,800.00	\$40.00	\$168,000.00
6	8" C900 DR 18 Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	3,700	LF	\$55.00	\$203,500.00	\$47.50	\$175,750.00	\$44.00	\$162,800.00
7	Fire Hydrant Assembly	13	EA	\$3,800.00	\$49,400.00	\$3,950.00	\$51,350.00	\$3,200.00	\$41,600.00
8	2" Gate Valve	3	EA	\$550.00	\$1,650.00	\$550.00	\$1,650.00	\$1,848.00	\$5,544.00
9	4" Resilient Gate Valve, Modified Wedge Disc Type	5	EA	\$760.00	\$3,800.00	\$950.00	\$4,750.00	\$1,120.00	\$5,600.00
10	6" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	\$980.00	\$6,860.00	\$1,450.00	\$10,150.00	\$1,366.00	\$9,562.00
11	8"x8" Tapping Sleeve and Valve	2	EA	\$3,575.00	\$7,150.00	\$5,500.00	\$11,000.00	\$4,800.00	\$9,600.00
12	8" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	\$1,335.00	\$9,345.00	\$1,500.00	\$10,500.00	\$2,040.00	\$14,280.00
13	Furnish, Tap and Install Service Lateral and Meter Box	116	EA	\$730.00	\$84,680.00	\$1,490.00	\$172,840.00	\$1,400.00	\$162,400.00
14	Testing, Disinfection, and Startup	1	LS	\$18,505.00	\$18,505.00	\$5,900.00	\$5,900.00	\$10,500.00	\$10,500.00
15	Project Closeout/Record Drawings	1	LS	\$5,670.00	\$5,670.00	\$4,500.13	\$4,500.13	\$3,000.00	\$3,000.00
	<b>TOTAL LUMP SUM BASE BID</b>				<b>\$659,450.00</b>		<b>\$685,090.13</b>		<b>\$710,832.00</b>

*CENTRAL Florida TAPPING*  
MYRTLE LAKE HILLS

**WATERMAIN EXTENSION - BASE BID  
SCHEDULE OF VALUES**

ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization/General Conditions	1	LS	20,000.00	20,000.00 -
2	Preconstruction Video	1	LS	1,890.00	1,890.00 -
3	2" C-900 DR-18 PVC Pipe	700	LF	29.00	20,300.00 -
4	4" C-900 DR-18 PVC Pipe	1,700	LF	37.00	62,900.00 -
5	6" C-900 DR-18 PVC Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	4,200	LF	39.00	163,800.00 -
6	8" PVC C-900 DR-18 PVC Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	3,700	LF	55.00	203,500.00 -
7	Fire Hydrant Assembly	13	EA	3,800.00	49,400.00 -
8	2" Gate Valve	3	EA	550.00	1,650.00 -
9	4" Resilient Gate Valve, Modified Wedge Disc Type	5	EA	760.00	3,800.00 -
10	6" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	980.00	6,860.00 -
11	8"x8" Tapping Sleeve and Valve	2	EA	3,575.00	7,120.00 -
12	8" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	1,335.00	9,345.00 -
13	Furnish, Tap and Install Service Lateral and Meter Box	116	EA	730.00	84,680.00 -
14	Testing, Disinfection, and Startup	1	LS	18,585.00	18,585.00 -
15	Project Closeout/Record Drawings	1	LS	5,670.00	5,670.00 -
<b>TOTAL LUMP SUM BASE BID</b>					<b>\$ 659,470.00</b>

**MYRTLE LAKE HILLS  
WATERMAIN EXTENSION - BASE BID  
SCHEDULE OF VALUES**

ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization/General Conditions	1	LS	33,850.00	33,850.00
2	Preconstruction Video	1	LS	3,296.00	3,296.00
3	2" C-900 DR-18 PVC Pipe	700	LF	28.00	19,600.00
4	4" C-900 DR-18 PVC Pipe	1,700	LF	36.00	61,200.00
5	6" C-900 DR-18 PVC Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	4,200	LF	40.00	168,000.00
6	8" PVC C-900 DR-18 PVC Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	3,700	LF	44.00	162,800.00
7	Fire Hydrant Assembly	13	EA	3,200.00	41,600.00
8	2" Gate Valve	3	EA	1,848.00	5,544.00
9	4" Resilient Gate Valve, Modified Wedge Disc Type	5	EA	1,120.00	5,600.00
10	6" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	1,366.00	9,562.00
11	8"x8" Tapping Sleeve and Valve	2	EA	4,800.00	9,600.00
12	8" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	2,040.00	14,280.00
13	Furnish, Tap and Install Service Lateral and Meter Box	116	EA	1,400.00	162,400.00
14	Testing, Disinfection, and Startup	1	LS	10,500.00	10,500.00
15	Project Closeout/Record Drawings	1	LS	3,000.00	3,000.00
<b>TOTAL LUMP SUM BASE BID</b>					<b>\$ 710,832</b>



**MYRTLE LAKE HILLS  
WATERMAIN EXTENSION - BASE BID  
SCHEDULE OF VALUES**

ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization/General Conditions	1	LS	25,500.00	25,500.00
2	Preconstruction Video	1	LS	3,200.00	3,200.00
3	2" C-900 DR-18 PVC Pipe	700	LF	17.00	11,900.00
4	4" C-900 DR-18 PVC Pipe	1,700	LF	19.00	32,300.00
5	6" C-900 DR-18 PVC Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	4,200	LF	39.00	163,800.00
6	8" PVC C-900 DR-18 PVC Pipe (Including Fittings, Restraints, Trenches, Excavation, and Restoration)	3,700	LF	47.50	175,750.00
7	Fire Hydrant Assembly	13	EA	3,950.00	51,350.00
8	2" Gate Valve	3	EA	550.00	1,650.00
9	4" Resilient Gate Valve, Modified Wedge Disc Type	5	EA	950.00	4,750.00
10	6" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	1,450.00	10,150.00
11	8"x8" Tapping Sleeve and Valve	2	EA	5,500.00	11,000.00
12	8" Resilient Gate Valve, Modified Wedge Disc Type	7	EA	1,500.00	10,500.00
13	Furnish, Tap and Install Service Lateral and Meter Box	116	EA	1,490.00	172,840.00
14	Testing, Disinfection, and Startup	1	LS	5,900.00	5,900.00
15	Project Closeout/Record Drawings	1	LS	4,500.13	4,500.13
<b>TOTAL LUMP SUM BASE BID</b>					<b>\$ 685,090.13</b>

PO Box 121754 Clermont, FL 34712  
Ph: (352) 409-6630 Fx: (877) 532-8247  
e-mail: aroehn@traverse-group.com



**SECTION 00510**

**NOTICE OF AWARD FORM**

**TO:** Central Florida Tapping & Construction Services, Inc.

**NAME OF PROJECT:** Myrtle Lake Hills

The OWNER has considered the BID submitted by you, dated April 15, 2016 for the above described WORK in response to the Invitation for Bids and Information for Bidders.

You are hereby notified that your BID has been accepted for BID items in the amount of \$ 659,470.00.

You are required by the Instructions to Bidder to execute the Agreement and furnish the required CONTRACTOR's Performance Bond, Payment Bond, and certificates of insurance within fourteen (14) calendar days from the date of this Notice to you. If you fail to execute said Agreement and to furnish said Bonds and insurance within fourteen (14) calendar days from receipt of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER's acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this 6th day of May, 2016.

OWNER: Utilities Inc. of Florida  
(Name of OWNER)

\_\_\_\_\_  
By (Signature)

Bryan K. Gongre, Regional Manager  
(Printed Name and Title)

**ACCEPTANCE OF NOTICE**

Receipt and acceptance of the above NOTICE OF AWARD is hereby acknowledged by \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_.

\_\_\_\_\_  
By

Richard Bullington, President  
Printed Name and Title

**00510-1**

# Central Florida Tapping

Longwood, FL 32752-1279

PO Box 521279

3001866  
PD# 213884  
Recpt# 230517

DATE

7/29/2016

INVOICE #

07.6173

BILL TO

Utilities Inc of Florida  
200 Westerfield Avenue  
Altamonte Springs, FL 32714-4027

JOB LOCATION

Myrtle Lake Hills

centralfloridatapping.com

Phone #

407-834-8271

Fax #

407-834-3859

PO NUMBER

TERMS

Net 30 Days

CFT JOB NO.

16.4886

QUANTITY

DESCRIPTION

RATE

AMOUNT

1 Pay Request No. 1

118,840.50

118,840.50

Thank You,  
Rick

Thank You For Your Business.  
We Appreciate It.

**Total**

\$118,840.50

3001866  
PO# 213884  
Recpt# 233830

## APPLICATION AND CERTIFICATE FOR PAYMENT

PAGE ONE OF 2 PAGES

Project:  
Myrtle Lake Hills Water Main

APPLICATION NO.: 2  
PERIOD TO: August 31, 2016  
PROJECT NOS.:

FROM CONTRACTOR:  
CENTRAL FLORIDA TAPPING  
P.O. BOX 521279  
LONGWOOD, FL. 32752-1279

CONTRACT DATE:

CONTRACT FOR:

### CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet, attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

1. ORIGINAL CONTRACT SUM \$ 659,450.00
2. Net change by Change Orders \$
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 659,450.00
4. TOTAL COMPLETED & STORED TO DATE \$ 313,330.00  
(Column G attached)
5. RETAINAGE: \$ 31,333.00
  - a. % of Completed Work  
(Columns D + E attached)
  - b. % of Stored Material \$ 0.00  
(Column F attached sheet)Total Retainage (Line 5a + 5b or  
Total in Column I attached sheet) \$ 31,333.00
6. TOTAL EARNED LESS RETAINAGE \$ 281,997.00  
(Line 4 less Line 5 Total)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT \$ 118,840.50  
(Line 6 from prior Certificate)
8. CURRENT PAYMENT DUE \$ 163,156.50
9. BALANCE TO FINISH, INCLUDING RETAINAGE \$ 377,453.00  
(Line 3 less Line 6)

CONTRACTOR: Central Florida Tapping

By: RICHARD E. BULLINGTON DATE:

State of: FLORIDA  
County of: SEMINOLE  
Subscribed and sworn to before  
me this day of 2016

Notary Public:

My Commission expires:

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Contractor: Central Florida Tapping  
Job: Myrtle Lake Hills Water Main

Application No: 2  
Application Date: August 31, 2016  
Period To: August 31, 2016

Item No.	Description	Scheduled Quantity	Unit	Unit Price	Scheduled Value	Previous Period Quantity	Previous Period Value	This Period Quantity	This Period Value	Total to Date Quantity	Total to Date Value	Percent Complete	Balance to Complete	Retainage
1	Mob., Gen. Cond	1	LS	\$ 20,000.00	\$ 20,000.00	100%	\$ 20,000.00	0%	\$ -	100%	\$ 20,000.00	100%	\$ -	\$ 2,000.00
2	Pre. Const. Video	1	LS	\$ 1,890.00	\$ 1,890.00	100%	\$ 1,890.00	0%	\$ -	100%	\$ 1,890.00	100%	\$ -	\$ 189.00
3	2" PVC	700	LF	\$ 29.00	\$ 20,300.00	0	\$ -	0	\$ -	0	\$ -	0%	\$ 20,300.00	\$ -
4	4" PVC	1700	LF	\$ 37.00	\$ 62,900.00	0	\$ -	640	\$ 23,680.00	640	\$ 23,680.00	38%	\$ 39,220.00	\$ 2,368.00
5	6" PVC	4200	LF	\$ 39.00	\$ 163,800.00	0	\$ -	1905	\$ 74,295.00	1905	\$ 74,295.00	45%	\$ 89,505.00	\$ 7,429.50
6	8" PVC	3,700	LF	\$ 55.00	\$ 203,500.00	1560	\$ 85,800.00	484	\$ 26,620.00	2044	\$ 112,420.00	55%	\$ 91,080.00	\$ 11,242.00
7	Fire Hydrant Assy.	13	EA	\$ 3,800.00	\$ 49,400.00	3	\$ 11,400.00	4	\$ 15,200.00	7	\$ 26,600.00	54%	\$ 22,800.00	\$ 2,660.00
8	2" GV	3	EA	\$ 550.00	\$ 1,650.00	3	\$ 1,650.00	0	\$ -	3	\$ 1,650.00	100%	\$ -	\$ 165.00
9	4" GV	5	EA	\$ 780.00	\$ 3,900.00	0	\$ -	2	\$ 1,520.00	2	\$ 1,520.00	40%	\$ 2,280.00	\$ 152.00
10	6" GV	7	EA	\$ 980.00	\$ 6,860.00	0	\$ -	3	\$ 2,940.00	3	\$ 2,940.00	43%	\$ 3,920.00	\$ 294.00
11	8"x8" Wet Tap	2	EA	\$ 3,575.00	\$ 7,150.00	0	\$ -	1	\$ 3,575.00	1	\$ 3,575.00	50%	\$ 3,575.00	\$ 357.50
12	8" GV	7	EA	\$ 1,335.00	\$ 9,345.00	3	\$ 4,005.00	1	\$ 1,335.00	4	\$ 5,340.00	57%	\$ 4,005.00	\$ 534.00
13	Water Services	118	EA	\$ 730.00	\$ 84,680.00	10	\$ 7,300.00	44	\$ 32,120.00	54	\$ 39,420.00	47%	\$ 45,260.00	\$ 3,942.00
14	Testing	1	LS	\$ 18,505.00	\$ 18,505.00	0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ 18,505.00	\$ -
15	Close Out & As Builts	1	LS	\$ 5,670.00	\$ 5,670.00	0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ 5,670.00	\$ -
				\$ -	\$ -	0	\$ -	0	\$ -	0	\$ -	#DIV/0!	\$ -	\$ -
				\$ -	\$ -	0	\$ -	0	\$ -	0	\$ -	#DIV/0!	\$ -	\$ -
				\$ -	\$ -	0	\$ -	0	\$ -	0	\$ -	#DIV/0!	\$ -	\$ -
Totals					\$ 669,460.00		\$ 132,045.00		\$ 181,285.00		\$ 313,330.00	48%	\$ 346,120.00	\$ 31,333.00

# APPLICATION AND CERTIFICATE FOR PAYMENT

PAGE ONE OF 2 PAGES

Project:  
Myrtle Lake Hills Water Main

APPLICATION NO.: 3  
PERIOD TO: September 30, 2016  
PROJECT NOS.:

FROM CONTRACTOR:  
CENTRAL FLORIDA TAPPING  
P.O. BOX 521279  
LONGWOOD, FL, 32752-1279

CONTRACT DATE:

3001866  
PD# 213884  
Recpt# 236307

CONTRACT FOR:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet, attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

- |  |               |
|--|---------------|
| 1. ORIGINAL CONTRACT SUM   | \$ 659,450.00 |
| 2. Net change by Change Orders   | \$            |
| 3. CONTRACT SUM TO DATE (Line 1 + 2)   | \$ 659,450.00 |
| 4. TOTAL COMPLETED & STORED TO DATE<br>(Column G attached)                   | \$ 443,207.50 |
| 5. RETAINAGE:  | \$ 44,320.75  |
| a. _____ % of Completed Work<br>(Columns D + E attached)                     |               |
| b. _____ % of Stored Material<br>(Column F attached sheet)                   | \$ 0.00       |
| Total Retainage (Line 5a + 5b or<br>Total in Column I attached sheet)        | \$ 44,320.75  |
| 6. TOTAL EARNED LESS RETAINAGE<br>(Line 4 less Line 5 Total)                 | \$ 398,886.75 |
| 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT<br>(Line 6 from prior Certificate) | \$ 281,997.00 |
| 8. CURRENT PAYMENT DUE   | \$ 116,889.75 |
| 9. BALANCE TO FINISH, INCLUDING RETAINAGE<br>(Line 3 less Line 6)            | \$ 260,563.25 |

CONTRACTOR: Central Florida Tapping

By: \_\_\_\_\_ DATE: \_\_\_\_\_  
RICHARD E. BULLINGTON

State of: FLORIDA  
County of: SEMINOLE  
Subscribed and sworn to before  
me this \_\_\_\_\_ day of \_\_\_\_\_ 2016

Notary Public: \_\_\_\_\_

My Commission expires: \_\_\_\_\_

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.



Contractor: Central Florida Tapping  
Job: Myrtle Lake Hills Water Main

Application No: 3  
Application Date: September 29, 2016  
Period To: September 29, 2016

Item No.	Description	Scheduled Quantity	Unit	Unit Price	Scheduled Value	Previous Period Quantity	Previous Period Value	This Period Quantity	This Period Value	Total to Date Quantity	Total to Date Value	Percent Complete	Balance to Complete	Retainage
1	Mob., Gen. Cond	1	LS	\$ 20,000.00	\$ 20,000.00	100%	\$ 20,000.00	0%	\$ -	100%	\$ 20,000.00	100%	\$ -	\$ 2,000.00
2	Pres. Const. Video	1	LS	\$ 1,890.00	\$ 1,890.00	100%	\$ 1,890.00	0%	\$ -	100%	\$ 1,890.00	100%	\$ -	\$ 189.00
3	2" PVC	700	LF	\$ 29.00	\$ 20,300.00	0	\$ -	0	\$ -	0	\$ -	0%	\$ 20,300.00	\$ -
4	4" PVC	1700	LF	\$ 37.00	\$ 62,900.00	640	\$ 23,680.00	560	\$ 20,720.00	1200	\$ 44,400.00	71%	\$ 18,500.00	\$ 4,440.00
5	6" PVC	4200	LF	\$ 39.00	\$ 163,800.00	1905	\$ 74,295.00	825	\$ 24,375.00	2530	\$ 98,670.00	60%	\$ 65,130.00	\$ 9,867.00
6	8" PVC	3,700	LF	\$ 55.00	\$ 203,500.00	2044	\$ 112,420.00	884	\$ 48,820.00	2928	\$ 161,040.00	79%	\$ 42,460.00	\$ 16,104.00
7	Fire Hydrant Assy.	13	EA	\$ 3,800.00	\$ 49,400.00	7	\$ 26,600.00	4	\$ 15,200.00	11	\$ 41,800.00	85%	\$ 7,600.00	\$ 4,180.00
8	2" GV	3	EA	\$ 550.00	\$ 1,650.00	3	\$ 1,650.00	0	\$ -	3	\$ 1,650.00	100%	\$ -	\$ 165.00
9	4" GV	5	EA	\$ 760.00	\$ 3,800.00	2	\$ 1,520.00	1	\$ 760.00	3	\$ 2,280.00	60%	\$ 1,520.00	\$ 228.00
10	6" GV	7	EA	\$ 980.00	\$ 6,860.00	3	\$ 2,940.00	1	\$ 980.00	4	\$ 3,920.00	57%	\$ 2,940.00	\$ 392.00
11	8"X8" Wet Tap	2	EA	\$ 3,575.00	\$ 7,150.00	1	\$ 3,575.00	0	\$ -	1	\$ 3,575.00	50%	\$ 3,575.00	\$ 357.50
12	8" GV	7	EA	\$ 1,335.00	\$ 9,345.00	4	\$ 5,340.00	2	\$ 2,670.00	6	\$ 8,010.00	86%	\$ 1,335.00	\$ 801.00
13	Water Services	118	EA	\$ 730.00	\$ 84,880.00	54	\$ 39,420.00	10	\$ 7,300.00	64	\$ 46,720.00	55%	\$ 37,980.00	\$ 4,672.00
14	Testing	1	LS	\$ 18,505.00	\$ 18,505.00	0%	\$ -	50%	\$ 9,252.50	50%	\$ 9,252.50	50%	\$ 9,252.50	\$ 925.25
15	Close Out & As Builts	1	LS	\$ 5,670.00	\$ 5,670.00	0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ 5,670.00	\$ -
					\$ -	0	\$ -	0	\$ -	0	\$ -	#DIV/0!	\$ -	\$ -
					\$ -	0	\$ -	0	\$ -	0	\$ -	#DIV/0!	\$ -	\$ -
					\$ -	0	\$ -	0	\$ -	0	\$ -	#DIV/0!	\$ -	\$ -
	Totals				\$ 659,460.00		\$ 313,330.00		\$ 129,877.50		\$ 443,207.50	67%	\$ 216,242.50	\$ 44,320.75

LAKE UTILITY SERVICES, INC.  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

3008141  
PD# 209298  
Receipt 218903

Invoice No: 7438134  
Invoice Date: Feb 29, 2016  
Invoice Amount: \$10,000.00  
Project No: 149685002.1  
Project Name: MYRTLE LAKE HILLS  
Project Manager: ROMANO, STEVE

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Feb 29, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TOTAL FEE AUTHORIZED	20,000.00	50.00%	10,000.00	0.00	10,000.00
<b>Subtotal</b>	<b>20,000.00</b>	<b>50.00%</b>	<b>10,000.00</b>	<b>0.00</b>	<b>10,000.00</b>
<b>Total LUMP SUM</b>					<b>10,000.00</b>

### DESCRIPTION OF SERVICES PERFORMED:

WATER MAIN DESIGN LAYOUT AND INITIAL DEVELOPMENT OF CONSTRUCTION PLANS

**Total Invoice: \$10,000.00**

3008141  
PO# 211728  
Rcpt# 221316

~~LAKE UTILITY SERVICES, INC.~~ SANLANDO UTILITIES  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7676857  
Invoice Date: Mar 31, 2016  
Invoice Amount: \$6,000.00  
Project No: 149685002.1  
Project Name: MYRTLE LAKE HILLS  
Project Manager: ROMANO, STEVE

Client Reference:

For Services Rendered through Mar 31, 2016

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TOTAL FEE AUTHORIZED	20,000.00	80.00%	16,000.00	10,000.00	6,000.00
Subtotal	20,000.00	80.00%	16,000.00	10,000.00	6,000.00
Total LUMP SUM					6,000.00

DESCRIPTION OF SERVICES PERFORMED:  
FDEP PERMITTING AND BIDDING SERVICES

**Total Invoice: \$6,000.00**

3008141  
PO# 213885  
Recpt# 227088

UIF - SANLANDO  
~~LAKE UTILITY SERVICES, INC.~~  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7930105  
Invoice Date: May 31, 2016  
Invoice Amount: \$3,000.00  
  
Project No: 149685002.1  
Project Name: MYRTLE LAKE HILLS  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through May 31, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TOTAL FEE AUTHORIZED	20,000.00	95.00%	19,000.00	16,000.00	3,000.00
<b>Subtotal</b>	<b>20,000.00</b>	<b>95.00%</b>	<b>19,000.00</b>	<b>16,000.00</b>	<b>3,000.00</b>
<b>Total LUMP SUM</b>					<b>3,000.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
RIGHT OF WAY PERMITTING

**Total Invoice: \$3,000.00**

JH  
Okay, pcf

**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030  
Lake Mary, Florida 32746  
Phone: (407) 830-6331

F.E.I.: 46-4480334

RECEIVED

OCT 16 2015

October 6, 2015

Utilities, Inc.

2335 Sanders Road  
Northbrook, IL 60062 USA

Invoice No.: 2263

File No.: 30057.225

PLEASE REFER TO INVOICE  
NUMBER WHEN REMITTING.

Attention: John Stover

RE: SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION

Balance Due Now \$324.00

**FEES**

		<u>Hours</u>	<u>Amount</u>
09/27/15	MSF Review correspondence from Mr. Flynn and attachments; Letter to PSC staff regarding list of entities to notice; Letter to Mr. Flynn regarding legal description	0.30	\$108.00
09/30/15	MSF Review correspondence from Mr. Flynn and County and draft response to Mr. Flynn and follow-up telephone conference with Mr. Flynn; Begin draft of application and Notice;	0.60	\$216.00
Total Fees		0.90	\$324.00

**Total Fees & Disbursements**

\$324.00



2016057-6070 Sanlando Myrtle Hills Lake Extension

JH ✓

**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030

Lake Mary, Florida 32746

Phone: (407) 830-6331

F.E.I.: 46-4480334

November 4, 2015

Utilities, Inc.

2335 Sanders Road

Northbrook, IL 60062 USA

Invoice No.:

2361

File No.:

30057.225

PLEASE REFER TO  
INVOICE NUMBER WHEN  
REMITTING.

Attention: John Stover

RE: SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION

Balance Due Now

\$1,640.00

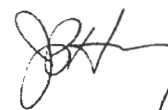
**FEES**

		<u>Hours</u>	<u>Amount</u>
10 01 15	MSF Correspondence with Mr. Flynn; Continue research and draft of Application;	1.10	\$396.00
10 02 15	MSF Complete first draft of Application and letter to Mr. Flynn concerning same; review Mr. Flynn's comments to County; Telephone Conference with Mr. Hoy and Mr. Flynn who telephoned; Review, research and respond to correspondence from Mr. Flynn;	1.30	\$468.00
10 05 15	MSF Review and respond to correspondence from Mr. Flynn;	0.20	\$72.00
10 15 15	MSF Telephone Conference with Mr. Flynn who telephoned;	0.00	\$0.00
10 23 15	MSF Telephone Conference with Ms. Daniel at PSC; Correspondence with Mr. Flynn; Follow-up correspondence with Mr. Flynn;	0.40	\$144.00

10 26 15	MSF	Review documents from Mr. Flynn and finalize Application; Letter to PSC Clerk concerning same; Follow-up correspondence with Mr. Flynn	1.00	\$360.00
		Total Fees	4.00	\$1,440.00

**DISBURSEMENTS**

			<u>Amount</u>
10 26 15		Filing Fee	\$200.00
		Total Disbursements	\$200.00
		Total Fees & Disbursements	<b>\$1,640.00</b>



**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030

Lake Mary, Florida 32746

Phone: (407) 830-6331

F.E.I.: 46-4480334

December 2, 2015

Utilities, Inc.

2335 Sanders Road

Northbrook, IL 60062 USA

Invoice No.:

2446

File No.:

30057.225

PLEASE REFER TO  
INVOICE NUMBER WHEN  
REMITTING

Attention: John Stover

RE: SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION

Balance Due Now

\$1,037.08

**FEES**

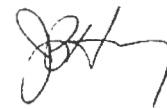
		<u>Hours</u>	<u>Amount</u>
11 09 15	MSF Telephone Conference with PSC attorney Mapp who telephoned and letter to Mr. Hoy and Mr. Flynn concerning same; Follow-up correspondence with Mr. Flynn	0.40	\$144.00
11 11 15	MSF Correspondence with Mr. Hoy and Mr. Flynn; Draft and file waiver; letter to PSC attorney Mapp;	0.30	\$108.00
11 12 15	MSF Review Affidavit of Mailing and Draft and File Notice of Filing	0.20	\$72.00
11 20 15	MSF Telephone Conference with Ms. Daniel at PSC who telephoned; letter to Mr. Flynn; Review response	0.40	\$144.00
11 27 15	MSF Review deficiency letter and letter to Mr. Flynn concerning same;	0.20	\$72.00
11 30 15	MSF Research prior PSC Orders; Review and incorporate	1.10	\$396.00

Mr. Flynn's responses; Finalize deficiency responses  
and letter to Mr. Flynn concerning same;

Total Fees	2.60	\$936.00
------------	------	----------

**DISBURSEMENTS**

		<u>Amount</u>
11 03 15	FedEx	\$38.03
11 06 15	Legal Notice	\$63.05
	Total Disbursements	\$101.08
	<b>Total Fees &amp; Disbursements</b>	<b>\$1,037.08</b>



**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030

Lake Mary, Florida 32746

Phone: (407) 830-6331

F.E.I.: 46-4480334

January 5, 2016

Utilities, Inc.

2335 Sanders Road

Northbrook, IL 60062 USA

Invoice No.:

2528

File No.:

30057.225

Attention: John Stover

PLEASE REFER TO  
INVOICE NUMBER WHEN  
REMITTING.RE: SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION

Balance Due Now

\$684.00

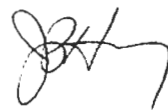
**FEES**

			<u>Hours</u>	<u>Amount</u>
12/01/15	MSF	Final review of Mr. Flynn's comments to draft response; Review survey; Finalize Response;	0.20	\$72.00
12/16/15	MSF	Telephone Conference with PSC attorney Crawford who telephoned;	0.20	\$72.00
12/21/15	MSF	Review staff's 1st data request and letter to Mr. Flynn concerning same;	0.10	\$36.00
12/22/15	MSF	Research, draft and file Motion for Rule Waiver or Variance;	1.00	\$360.00
12/23/15	MSF	Review, draft and file responses to staff's first data request; correspondence with Mr. Flynn;	0.40	\$144.00
		<b>Total Fees</b>	<b>1.90</b>	<b>\$684.00</b>



**Total Fees & Disbursements**

**\$684.00**

A handwritten signature in black ink, appearing to be 'JH' followed by a long horizontal stroke.

**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030  
Lake Mary, Florida 32746  
Phone: (407) 830-6331

F.E.I.: 46-4480334

March 3, 2016

Utilities, Inc.  
2335 Sanders Road  
Northbrook, IL 60062 USA

Invoice No.: 2664  
File No.: 30057.225

PLEASE REFER TO  
INVOICE NUMBER WHEN  
REMITTING.

**Attention:** John Stover

**RE:** SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION

**Balance Due Now** **\$612.00**

**FEES**

		<u>Hours</u>	<u>Amount</u>
02/10/16	MSF Telephone Conference with PSC attorney Mapp who telephoned; Research and draft response to attorney Mapp;	0.40	\$144.00
02/18/16	MSF Review staff recommendation and letter to client concerning same;	0.20	\$72.00
02/19/16	MSF Review correspondence from Mr. Flynn and telephone conference with Ms. Daniel at PSC; Letter to Mr. Flynn;	0.30	\$108.00
02/23/16	MSF Telephone Conference with Ms. Daniel; letter to Mr. Flynn;	0.30	\$108.00
02/24/16	MSF Correspondence from Mr. Flynn and with Ms. Daniel; Telephone Conference with PSC attorney Crawford who telephoned and letter to Mr. Hoy and others concerning same;	0.40	\$144.00

02/25/16 MSF

Review correspondence from Mr. Flynn and letter to  
PSC attorney Crawford;

0.10

\$36.00

Total Fees

1.70

\$612.00

**Total Fees & Disbursements**

**\$612.00**



JH X

**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030

Lake Mary, Florida 32746

Phone: (407) 830-6331

Batch \_\_\_\_\_

Doc \_\_\_\_\_

F.E.I.: 46-4480334

April 6, 2016

Utilities, Inc.

2335 Sanders Road

Northbrook, IL 60062 USA

Invoice No.:

2758

File No.:

30057.225

PLEASE REFER TO  
INVOICE NUMBER WHEN  
REMITTING.**Attention:** John Stover**RE:** SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION**Balance Due Now****\$324.00****FEES**

			<u>Hours</u>	<u>Amount</u>
03/15/16	MSF	Review PAA Order and letter to Mr. Hoy and others concerning same;	0.20	\$72.00
03/16/16	MSF	Research and draft proposed Customer Notice and letter to Mr. Hoy and others concerning same;	0.40	\$144.00
03/18/16	MSF	Review Mr. Flynn's changes to Customer Notice; Draft Revised Tariff Sheet; Letter to Ms. Hudson at PSC;	0.30	\$108.00
Total Fees			0.90	\$324.00

**Total Fees & Disbursements****\$324.00****RECEIVED****APR 11 2016**

**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030  
Lake Mary, Florida 32746  
Phone: (407) 830-6331

F.E.I.: 46-4480334

May 3, 2016

Utilities, Inc.

2335 Sanders Road  
Northbrook, IL 60062 USA

Invoice No.: 2870

File No.: 30057.225

PLEASE REFER TO  
INVOICE NUMBER WHEN  
REMITTING.

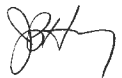
**Attention:** John Stover

**RE:** SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION

**Balance Due Now** **\$72.00**

**FEES**

		<u>Hours</u>	<u>Amount</u>
04/04/16	MSF Correspondence from Ms. Hudson at PSC regarding Customer Notice; Draft Affidavit of mailing; Letter to Mr. Hoy and others concerning same;	0.20	\$72.00
	Total Fees	0.20	\$72.00
	<b>Total Fees &amp; Disbursements</b>		<b>\$72.00</b>





**Friedman & Friedman, P.A.**

766 North Sun Drive, Suite 4030

Lake Mary, Florida 32746

Phone: (407) 830-6331

F.E.I.: 46-4480334

June 3, 2016

Utilities, Inc.

2335 Sanders Road

Northbrook, IL 60062 USA

Invoice No.:

2928

File No.:

30057.225

PLEASE REFER TO  
INVOICE NUMBER WHEN  
REMITTING.

**Attention:** John Stover

**RE:** SANLANDO UTILITIES  
MYRTLE LAKE HILLS EXTENSION

**Balance Due Now**

**\$108.00**

**FEEES**

			<u>Hours</u>	<u>Amount</u>
05/05/16	MSF	Review Affidavit of Mailing and research, draft and e-file Notice of Filing;	0.30	\$108.00
Total Fees			0.30	\$108.00
Total Fees & Disbursements				\$108.00

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. I60101-WS

**EXHIBIT PCF-26**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

## New Project or Budget Change?

New Project

## Assigned Project #

2016074

## Requested by:

Bryan K. Gongre

## Date:

6/15/2016

Project Manager / Area Manager

## Project Name:

Sanlando Correct I&amp;I Def Ph 2

## Company:

255

Sanlando Utilities Corp

## Business Unit:

255101

Sanlando Utilities Corp S

## Project Owner:

Bryan K. Gongre

## BU Type:

SP

## Project Manager:

Bryan K. Gongre

## Budget Owner / RVP:

John Hoy

03

## Start Date:

6/24/2016

Q2 2016

## Region:

Florida

04

## Estimated End Date:

10/1/2016

Q4 2016

## State:

FL

## Project Type:

Cost Reduction

## Will project replace/retire any assets:

Yes

## Previously Requested:

## This Request:

\$1,573,884

## Still to be Requested:

## Total Project Budget:

\$1,573,884

## Description:

During the second quarter of 2015, under CP# 2015097, Sanlando contracted with American In Line to clean and video approximately 89 000LF of 8" and 10" gravity sewer main within the Sanlando collection system. The videos and reports were reviewed resulting in the identification of 30,000 LF of 8" and 10" VCP pipe with multiple cracks, fractures at joints, joint separation, infiltration, infiltration staining, root intrusion and bellies holding greater than 3" of water. Approximately 10 manhole structures were also observed to contain infiltration at inverts and seams as well as signs of infiltration staining. This project will address these issues by installing full segment CIPP liners within 23,798 LF of 8" and 10" VCP, installation of 82 LF of short liners, reinstatement and grouting of 164 6" laterals, rehabilitation of 10 manholes using cementitious materials, open excavation and replacement of approximately 147 LF of 8" VCP at 17 locations between manhole segments to include ROW permitting, MOT, dewatering, bypass operations and restoration of curb, pavement and driveways.

## Timeline Considerations:

Repairs need to be completed in order to decrease flows to the Wekiva WWTF that will allow the rehabilitation of the WWTF under a current open project and will allow for accommodation of the additional flows at Wekiva as a result of the Shadow Hills WWTF Diversion project that is currently under design.

## Inter-dependant Project

Project Number:

2015097

Project Name

Sanlando I&amp;I Invest. Phase 2

(If applicable)

Have engineering evaluations been performed?

No

Engineering project number

(If applicable)

**Justification and Benefits:**

The Sanlando service area provides sanitary sewer service to approximately 10,250 connections through a network of approximately 490,000 LF of gravity collection mains. A vast majority of the gravity collection system was constructed in the 1970's and consists of a combination of vetrified clay pipe (VCP) and PVC. The WW flows are received and treated at the Wekiva WWTF. The Wekiva WWTF is rated at 2.9 MGD with an average daily flow of 2.0 MGD. As a result of wet weather conditions in 2013, the Wekiva facility reached flows upwards to the permit limit of 2.9MGD and above. This condition led to the investigation of the collection system's lift stations and associated run times under a phase 1 study to determine where possible inflow/infiltration existed. Several lift stations were determined to have excessive run times leading to the video inspection of the gravity collection system within those areas that the lift stations support. The phase 1 study focused on the areas where receiving lift stations were not repumping from upstream stations and possibly skewing the run times. After reviewing the data of the video survey, the VCP pipe segments and several manholes show obvious signs infiltration that are the direct result of cracks and fractures from settling over time. The deficiencies identified in the phase 1 study were corrected under a separate capital project and run times at the stations were cut in half. The phase 2 study addressed the areas served by lift stations with elevated run times downstream of stations within the phase 1 project. In order to further reduce the infiltration of groundwater into the collection system these damages must be repaired through a combination of CIPP lining and excavation and replacment. Doing so will reduce operating expense in the form of electric and chemical cost, wear and tear on equipment, improve the operational aspects of the Wekiva WWTF and extend the service life of the collection system by restoring the integrity of the gravity main and manholes. The benefit in the reduction of operating expense is not calculable at this time as the quantity of infiltration is not readily measurable and is based upon seasonal groundwater tables that vary according to weather patterns.

The phase 2 deficiency corrections will address I&I that currently increases the flows received by the Wekiva WWTF. These additional flows will have an impact upon the currently open project to rehabilitate the Wekiva WWTF as one treatment train at a time will need to be taken off line to complete the project. By reducing the flow to the plant, the plant rehab project will be more manageable. Furthermore, the Utility is currently under design to decommission the Shadow Hills WWTF and divert the WW flow to the Wekiva WWTF. The average daily flows at Wekiva will increase by approximately 0.376 MGD making I&I reduction that much more critical.

**Risk Evaluation**

This project will repair damaged gravity sewer mains that if not addressed, would continue to be sources of significant I&I that elevate treatment costs risking the recovery of these expenses when the FPSC compares water consumption to the treated volumes through the WWTF. As well, the vast majority of the collection system is located under paved areas where a catastrophic failure of a gravity main could lead to the collapse of a paved roadway potentially leading to significant damage associated with such an event.

**Alternatives Considered:**

This is a pro forma project to the Sanlando 2016 rate case. Recovery of this investment is timely not only from a rate making perspective but also due to the condition of the aging infrastructure and the need to address the many failures throughout the collection system thereby reducing O&M and extending the life of the assets. The longer these conditions exist the worse they will become eventually leading to collapse and complete failure. There are two components to this project. CIPP lining/root removal/manhole rehabilitation and excavate/repair activity. The lining and excavation were bid out separately. Three vendors bid the lining/rehab portion and three vendors bid the excavation/replacement work. This was necessary as most lining/rehab companies do not perform excavation services and those that do would skew the lining costs provided by the vendors that do not perform excavation services. The manhole segments were evaluated by degree of severity using a scale of high to low priority. A high priority was given those segments with visual signs of infiltration, multiple fractures, voids, etc. A lesser ranking of low was given to segments with multiple hair line cracks and no obvious signs of infiltration staining. To take advantage of economies of scale all segments that either ranked high, medium or low were included under this project. Also, although not yet evaluated, is the possibility of a cost reduction by lining an entire segment as opposed to the cost to install a short liner. Short liner costs are significantly higher as compared to LF cost to line an entire segment. This will be fleshed out prior to going to contract with the selected vendor.

**Technical Review Summary:**

Project was presented to the CPRT on 6/16/2016 without the need for revisions or corrections.



## Financial and Regulatory Implications

Capital Plan	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	1,573,883				
Project Spend in Current Plan	1,000,000				
Variance	(573,883)	-	-	-	-
CIAC Collected					
Net Rate Base	1,573,883	1,573,883	1,573,883	1,573,883	1,573,883

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--	--

### Financial Justification

The project's initial budget amount was estimated at \$1,000,000 subject to the results of the video inspection activities. The variance of \$573,883 reflects the amount and severity of deficiencies found during the investigation.

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(12)	(12)
11,151	11,151

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(8,744)	(17,488)	(34,975)	(34,975)	(34,975)
Under-recovery on capital B/(W)	(29,346)	(116,074)	(113,451)	(110,828)	(108,204)
Net EBIT Impact B/(W)	(38,090)	(133,561)	(148,426)	(145,803)	(143,180)

### Timing and Supporting Information on Rate Recovery

This project is identified as a pro forma project in the 2016 rate case.

### Regulatory Plan Implications

### Assumptions





## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	American In Line	No Bid	No
2	Vac Vision	\$994,123	No
3	Insituform	\$718,970	Yes

### Component:

### Amount

Value Bid Elements

718,970.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Excavate and Repair

854,914.00

Total Project Budget

1,573,884.00

Object Account(s) to which project will be closed:

1350

Sewer Gravity Main/Manholes

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

Three vendors were solicited for the lining work; however, only two bids were received. This is likely the result of the third vendor's other outstanding commitment and availability.

The Excavation work was bid out to three bidders and three bids were received as follows;

\$920,890.82 Boykin Construction

\$892,000.00 CFT

\$854,913.13 Traverse Group

Of these bids, the Traverse Group was selected to perform the excavation work.



## Approvals

### EAM Prime Review

Review Completed by

Nate Carver

Date:

6/16/2016

Does project align with utility plan and meet technical requirements?

Yes ☒ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

6/16/2016

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by

Christie Kincaid

Date:

6/20/2016

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan K. Gongre

Date:

6/16/2016

☒

VP Operations:

Patrick C. Flynn

Date:

6/21/2016

☒

President:

John p. Hoy

Date:

6/22/2016

☒

### Approval or Re-Direction Comments



17988 Edison Avenue  
Chesterfield, MO 63005  
www.insituform.com

Andrew Costa  
Business Development Manager

Phone: (813) 309-0385  
Fax: (813) 627-0006  
Email: acosta@insituform.com

June 10, 2016

AAJA-SREZNH

Bryan K. Gongre  
Utilities Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

**Re: Sanlando I&I Deficiency Corrections – Phase 2**

Dear Mr. Gongre,

Insituform Technologies, LLC, ("ITLLC") is pleased to provide the following proposal to **Utilities Inc. of Florida**, hereinafter referred to as "Customer", for the scope of work detailed below for the above-referenced Project.

**INSITUFORM SCOPE OF WORK / RESPONSIBILITIES**

---

ITLLC will provide the following:

1. Mobilization and demobilization of personnel, equipment, and materials to and from the Project site. The price presented is based upon one (1) instance of mobilization and demobilization.
2. Install **polyester** resin impregnated CIPP liner in accordance with ASTM F1216 or F1743 using either water or air/pull-in/steam, at the discretion of ITLLC. We have not included any costs associated with the disposal of inversion water.
3. Internal reinstatement of all service connections as directed by the Customer or their representative.
4. CCTV inspection of the pipe before and after the lining is complete.
5. Standard ITLLC one-year warranty from date of installation, excluding any required warranty TV inspection and/or testing.
6. Standard insurance coverage with the following limits:
  - General Liability: \$2,000,000 per occurrence/\$4,000,000 aggregate
  - Auto: \$2,000,000 Combined Single Limit
  - Workers Compensation: Statutory with \$1,000,000 Employer's LiabilityThe above insurance shall not include Primary and Non-Contributory Coverage and ITLLC shall not provide a Waiver of Subrogation endorsement.

**NOTE:** Modifications to the Scope of Work/Responsibilities of ITLLC may result in a change in price and/or duration.

**ASSUMPTIONS AND QUALIFICATIONS**

---

ITLLC's Proposal Pricing is based upon the following assumptions and clarifications:

1. ITLLC assumes the work will be completed during dry weather conditions.
2. Quantities are estimated. Customer shall be invoiced for actual quantities at the above unit prices.
3. ITLLC is an open-shop company and shall not be subject to any union requirements or agreements and will not enter into any Project Labor Agreement or any such similar agreement for this Project. Where



3043813  
 PD# 218293  
 Receipt# 233074

+

Company: **TRAVERSE GROUP, INC**

Address: **PO BOX 121754**

City: **CLERMONT**

Phone: **352.409.6630**

State: **FL**

Zip:

**34712**

Fax: **877.532.8247**

## SUBCONTRACTOR APPLICATION FOR PAYMENT

PROJECT: **SANLANDO I&I REPAIRS 2**

JOB NO.:

APPLICATION FOR PAYMENT NO. **1**

PERIOD ENDING: **8.26.2016**

SUBCONTRACTORS INVOICE #: **2016UI31D1**

Contract Pay Items						Previous Payments		Work Performed this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
1	MH 79-80 112 WILLOW TREE LANE	1.000	LS	\$ 39,375.00	\$ 39,375.00		\$ -	0.060	\$ 2,362.50	0.060	\$ 2,362.50	6%
2	MH 98-94 135 STONEY RIDGE CT	1.000	LS	\$ 52,675.00	\$ 52,675.00		\$ -	0.070	\$ 3,687.25	0.070	\$ 3,687.25	7%
3	MH 97-96 102 EASTERN FORK	1.000	LS	\$ 42,850.00	\$ 42,850.00		\$ -	0.950	\$ 40,707.50	0.950	\$ 40,707.50	95%
4	MH 26-27 117 SWEETBRAIR BRANCH	1.000	LS	\$ 67,450.00	\$ 67,450.00		\$ -	0.950	\$ 64,077.50	0.950	\$ 64,077.50	95%
5	MH 30-29A 104 ASPEN PLACE	1.000	LS	\$ 71,250.00	\$ 71,250.00		\$ -	0.950	\$ 67,687.50	0.950	\$ 67,687.50	95%
6	MH 395-397 100SQUIRREL TRAIL	1.000	LS	\$ 53,000.00	\$ 53,000.00		\$ -	0.060	\$ 3,180.00	0.060	\$ 3,180.00	6%
7	MH 403-402 VALLEY DRIVE	1.000	LS	\$ 32,863.13	\$ 32,863.13		\$ -	0.060	\$ 1,971.79	0.060	\$ 1,971.79	6%
8	MH 387-386 302 SWEETWATER BLVD	1.000	LS	\$ 86,200.00	\$ 86,200.00		\$ -	0.060	\$ 5,172.00	0.060	\$ 5,172.00	6%
9	MH 242-241 307 RIVERBEND BLVD	1.000	LS	\$ 43,250.00	\$ 43,250.00		\$ -		\$ -		\$ -	
10	MH 283-282 730 RIVERBEND BLVD	1.000	LS	\$ 54,200.00	\$ 54,200.00		\$ -		\$ -		\$ -	
11	MH 17-17A 72 SWEETBRIAR BRANCH	1.000	LS	\$ 54,450.00	\$ 54,450.00		\$ -	0.060	\$ 3,267.01	0.060	\$ 3,267.01	6%
12	MH 16-17 SWEETBRIAR BRANCH	1.000	LS	\$ 51,450.00	\$ 51,450.00		\$ -	0.060	\$ 3,102.44	0.060	\$ 3,102.44	6%
13	MH 145-144 107 MEADOW CREEK COVE	1.000	LS	\$ 33,750.00	\$ 33,750.00		\$ -	0.950	\$ 32,062.50	0.950	\$ 32,062.50	95%
14	MH 163-164 106 DELLWOOD DRIVE	1.000	LS	\$ 38,050.00	\$ 38,050.00		\$ -	0.950	\$ 36,147.50	0.950	\$ 36,147.50	95%
15	MH 165-164 ARDSDALE COURT	1.000	LS	\$ 42,050.00	\$ 42,050.00		\$ -	0.950	\$ 39,947.50	0.950	\$ 39,947.50	95%
16	MH 196-194 SHERIDAN AVE	1.000	LS	\$ 66,800.00	\$ 66,800.00		\$ -	0.060	\$ 4,008.00	0.060	\$ 4,008.00	6%
17	MH 294-293 854 RIVERBEND BLVD	1.000	LS	\$ 25,250.00	\$ 25,250.00		\$ -	0.015	\$ 387.75	0.015	\$ 387.75	2%
				\$ -	\$ -		\$ -		\$ -		\$ -	
ORIGINAL CONTRACT TOTALS					\$ 854,913.13		\$ -		\$ 307,768.73		\$ 307,768.73	

Authorized Change Orders						Previous Payments		Pay Request this Period		Total to Date		% Complete
Item Number	Description	Quantity	U/M	Unit Price	Total	Quantity	Total	Quantity	Total	Quantity	Total	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
					\$ -		\$ -		\$ -		\$ -	
CHANGE ORDER TOTALS					\$ -		\$ -		\$ -		\$ -	

The undersigned SUBCONTRACTOR certifies that: (1) all items and amounts shown above are correct; (2) all Work performed and materials supplied fully comply with the terms and conditions of the Subcontract Documents.		Work Performed to Date on Original Contract Amount		\$ 854,913.13
		Work Performed on Change Orders		\$ -
		Materials Stored		\$ -
		Total Completed & Stored		\$ 854,913.13
		Retainage To Be Withheld		\$ -
		Less Previous Payments / Applications		\$ -
		Payment Amount Due This Application		\$ 307,768.73

Alicia Roehn	8.26.2016
--------------	-----------

Alicia Roehn

8.26.2016

+

**Fax: 877.532.8247**

**JOB NO.:**

1

8.26.2016

2016UI31D1

Work Performed to Date on Original Contract Amount	\$ 854,913.13
Work Performed on Change Orders	\$ -
Materials Stored	\$ -
Total Completed & Stored	\$ 854,913.13
Retainage To Be Withheld	- \$ -
Less Previous Payments / Applications	- \$ -
Payment Amount Due This Application	\$ 307,768.73





## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2015097

Requested by:

Bryan K. Gongre

Date: 5/4/2015

Project Manager / Area Manager

Project Name:

Sanlando I&amp;I Invest. Ph 2

Company:

255

Sanlando Utilities Corp

Business Unit:

255101

Sanlando Utilities Corp S

Project Owner:

John Hoy

BU Type:

SP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP:

John Hoy

03

Start Date:

6/1/2015

Q2 2015

Region:

Florida

04

Estimated End Date:

9/1/2015

Q3 2015

State:

FL

Project Type:

Cost Reduction

Will project replace/retire any assets:

No

Previously Requested:

\$130,000

This Request:

\$22,500

Still to be Requested:

Total Project Budget:

\$152,500

## Description:

Lightly pressure clean and video inspect approximately 83,190 LF of portions of the sanitary gravity collection system within the Sanlando service area. The Sanlando collection system consists of approximately 50 miles of gravity and force main. A high percentage of the gravity mains and some service laterals are VCP material. There are approximately 10,000 sewer customers served.

CO #1 - This change order is to increase the total LF of gravity sewer main being investigated and is a result of the difference between the original plan take off for quantities versus actual field quantities. The original estimate was 83,190 LF but actual field quantities found that there was an additional 15,000 LF to be inspected under the phase 2 project raising the total LF cleaned and inspected to approximately 98,190 LF.

## Timeline Considerations:

This project will be amended after the I&I investigation is completed to include the scope of work and cost needed to address the deficiencies found by installing liners or open cutting the applicable facilities. The rainy season should come to a close in September allowing for any excavation work to be less time consuming and less costly regarding dewatering requirements.

Inter-dependant Project

Project Number:

NA

Project Name

(If applicable)

Have engineering evaluations been performed?

No

Engineering project number

(If applicable)

**Justification and Benefits:**

The Wekiva WWTF typically treats an average of 2.0 MGD of sanitary flow. During rain events and elevated groundwater tables, the Wekiva WWTF is treating on average between 2.4 to 2.6 MGD. The history of sudden increases in influent flow indicates the high probability that portions of the system are being impacted by significant I & I that needs to be identified and corrected. Lift station elapsed time readings were gathered and analyzed to determine the most likely sources of I & I. The results of this analysis revealed six (6) areas where lift station run times have doubled and in some instances tripled as compared to drier periods of the year. In 2014, approximately 49,900 LF of VCP gravity sewer main was examined under Phase 1. Damaged pipes were either lined or excavated as needed to address the deficiencies. Under Phase 2 approximately 83,190 LF of gravity sewer mains will be evaluated. The investigation will allow us to identify sources of I & I and develop a cost to make appropriate improvements or corrections.

**Risk Evaluation**

This evaluation will help to identify damaged gravity sewer mains to be repaired that if not addressed, would continue to be sources of significant I&I that elevate treatment costs risking the recovery of these expenses when the FPSC compares water consumption to the treated volumes through the WWTF. As well, the vast majority of the collection system is located under paved areas where a catastrophic failure of a gravity main could lead to the collapse of a paved roadway potentially leading to significant damage associated with such an event.

**Alternatives Considered:**

Reduce the number of linear feet evaluated to decrease the capital cost of the evaluation and future repairs.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	130,000				
Project Spend in Current Plan					
Variance	(130,000)	-	-	-	-
CIAC Collected					
Net Rate Base	130,000	130,000	130,000	130,000	130,000

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--	--

### Financial Justification

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(2)	(2)
9,051	9,051

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(1,083)	(4,333)	(4,333)	(4,333)	(4,333)
Under-recovery on capital B/(W)	(9,669)	(9,344)	(9,019)	(8,694)	(8,369)
Net EBIT Impact B/(W)	(10,752)	(13,677)	(13,352)	(13,027)	(12,702)

### Timing and Supporting Information on Rate Recovery

A Rate Case was filed which included this as proforma plant. See below.

### Regulatory Plan Implications

This proposed project encompasses 17% of the Sanlando sewer system at a cost of \$130,000, which is significantly more than the 10% that was supported by staff in the above rate case. The new rates will provide approximately \$73,000 of annual line cleaning expense. 2015 line cleaning activity will be scheduled as a separate activity as an annual operating expense. This capital project's I&I investigation will be coupled with remedying the deficiencies found and the total expenditures recovered as a capital item reflecting the expectation that substantial pipe issues will be identified in the process.

### Assumptions

1. Significant amounts of I&I is entering the collection system in pipe segments that are comprised of VCP materials, was installed in the 1970's and 1980's, and has not been video inspected for many years if at all.
2. Pipe liners can be installed in many instances to reestablish pipe integrity and to provide a long lasting barrier to infiltration.
3. Some manholes will be found to have deficiencies that are providing a pathway for infiltration and inflow to occur.



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	American In Line	\$130,000	Yes
2			
3			

### Component:

### Amount

Value Bid Elements

130,000.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

CO #1 15,000LF x \$1.50/ LF

22,500.00

Total Project Budget

152,500.00

Object Account(s) to which project will be closed:

1350

Sewer Gravity Main/Manholes

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

The cleaning and televising was not bid out as there are only two companies in the Central Florida area that have the ability to take on this size of project and that produce quality results by way of reporting formats. American In Line was chosen over Altair as Altair charges \$2.49/LF and American In Line charges \$1.50/LF.

The cost to clean and televise 83,000 LF is \$124,500. The project cost of \$130,000.00 includes an additional \$5,500 for tipping fees for disposal of debris and material removed from the collection system during the cleaning process.

CO #1 is to cover the difference in total LF of gravity sewer main cleaned and inspected per actual field quantities versus plan take off quantities.





## Approvals

### EAM Prime Review

Review Completed by \_\_\_\_\_ Date: \_\_\_\_\_

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by \_\_\_\_\_ Date Held \_\_\_\_\_

Approval to proceed Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by \_\_\_\_\_ Christie Kincaid \_\_\_\_\_ Date: \_\_\_\_\_

5/20/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan Gongre

Date: 5/20/2015



VP Operations:

Patrick C. Flynn

Date: 5/20/2015



President:

John Hoy

Date: 5/21/2015



### Approval or Re-Direction Comments





American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

PHONE  
386/409-5446  
FAX 386/957-4919

## INVOICE

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

3004054  
PO# 187306  
Recpt# 198511

DATE	INVOICE #
6/22/2015	2015447

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER
Sanlando I & I	Net 30	7/22/2015	
DESCRIPTION	QTY	RATE	AMOUNT
Light cleaned 9,863.4' of existing 8" sanitary sewer collection system from 15-June-2015 to 19-June-2015	9,863.4	0.75	7,397.55
Video inspection of 9,863.4' of existing 8" sanitary sewer collection system from 15-June-2015 to 19-June-2015	9,863.4	0.75	7,397.55
Thank you for your business.		<b>Total</b>	\$14,795.10

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.

RECEIVED  
JUN 24 2015

RECEIVED  
JUL 08 2015



American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

PHONE  
386/409-5446  
FAX 386/957-4919

## INVOICE

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

30050  
3004054  
PO# 187306  
Req# 199943

DATE	INVOICE #
6/26/2015	2015469

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER	
Sanlando I & I	Net 30	7/26/2015		
DESCRIPTION	QTY	RATE	AMOUNT	
Light cleaned 5.057.2' of existing 8" sanitary sewer collection system from 23-June-2015 to 24-June-2015	5.057.2	0.75	3,792.90	
Video inspection of 5.057.2' of existing 8" sanitary sewer collection system from 23-June-2015 to 24-June-2015	5.057.2	0.75	3,792.90	
Thank you for your business.		<b>Total</b>	\$7,585.80	

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.

RECEIVED

AUG 05 2015



American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

PHONE  
386/409-5446  
FAX 386/957-4919

**INVOICE**

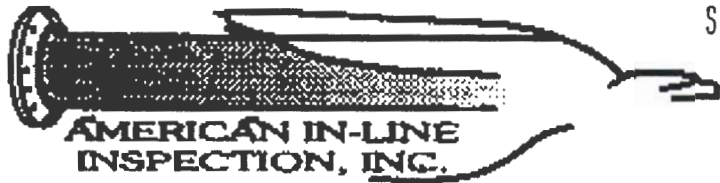
Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL. 32714

3004054  
PO# 187306  
Recpt# 202248

DATE	INVOICE #
7/30/2015	2015484

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER
Sanlando I & I	Net 30	8/29/2015	
DESCRIPTION	QTY	RATE	AMOUNT
Light cleaned 15,410.7' of existing 8" - 10" sanitary sewer collection system from 30-June-2015 to 31-July-2015	15,410.7	0.75	11,558.03
Video inspection of 15,410.7' of existing 8"-10" sanitary sewer collection system from 30-June-2015 to 31-July-2015	15,410.7	0.75	11,558.03
Thank you for your business.		<b>Total</b>	\$23,116.06

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.



RECEIVED  
SEP 02 2015

American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

PHONE  
386/409-5446  
FAX 386/957-4919

## INVOICE

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL. 32714

3004054  
PO# 187306

DATE	INVOICE #
8/31/2015	2015523

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER
Sanlando I & I	Net 30	9/30/2015	
DESCRIPTION	QTY	RATE	AMOUNT
Light cleaned 10,839.5' of existing 8" - 10" sanitary sewer collection system from 30-July-2015 to 24-August-2015	10.839.5	0.75	8.129.63
Video inspection of 10,839.5' of existing 8"-10" sanitary sewer collection system from 30-July-2015 to 24-August-2015	10.839.5	0.75	8.129.63
Thank you for your business.		<b>Total</b>	\$16,259.26

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.



American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

RECEIVED  
OCT 02 2015

PHONE  
386/409-5446  
FAX 386/957-4919

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL. 32714

3004054  
PO# 187306  
Rec'd # 207255

## INVOICE

DATE	INVOICE #
9/30/2015	2015574

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER
Sanlando I & I	Net 30	10/30/2015	
DESCRIPTION	QTY	RATE	AMOUNT
Light cleaned 27,296' of existing 8" - 10" sanitary sewer collection system from 08-September-2015 to 30-September-2015	27,296	0.75	20,472.00
Video inspection of 27,296' of existing 8"-10" sanitary sewer collection system from 8-September-2015 to 30-September-2015	27,296	0.75	20,472.00
Took two trucks to the dump on 11-September-2015	2	100.00	200.00
Took 1 load to the dump on 18-September-2015	1	100.00	100.00
Thank you for your business.		<b>Total</b>	\$41,244.00

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.





American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

RECEIVED  
DEC 03 2015

PHONE  
386/409-5446  
FAX 386/957-4919

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL. 32714

3004054  
PO 187306  
Repts. 211756

## INVOICE

DATE	INVOICE #
11/30/2015	2015676

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER
Sanlando I & I	Net 30	12/30/2015	
DESCRIPTION	QTY	RATE	AMOUNT
Light cleaned 14,896.3' of existing 8" - 10" sanitary sewer collection system from 09-November-2015 to	14,896.3	0.75	11,172.23
Video inspection of 14,896.3' of existing 8"-10" sanitary sewer collection system from 09-November-2015 to	14,896.3	0.75	11,172.23
Took truck to the dump on 11-November-2015	1	100.00	100.00
Took 1 load to the dump on 12-November-2015	1	100.00	100.00
Thank you for your business.		<b>Total</b>	\$22,544.46

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.



AMERICAN IN-LINE  
INSPECTION, INC.

RECEIVED  
JAN 06 2016

American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

PHONE  
386/409-5446  
FAX 386/957-4919

## INVOICE

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL. 32714

3004054  
PD# 187306  
Recpt# 214270

DATE	INVOICE #
12/31/2015	2015708

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER
Sanlando I & I	Net 30	1/30/2016	
DESCRIPTION	QTY	RATE	AMOUNT
Light cleaned 7,511.7' of existing 8" - 10" sanitary sewer collection system from 07-December-2015 to 31-December-2015	7,511.7	0.75	5,633.78
Video inspection of 7,511.7' of existing 8"-10" sanitary sewer collection system from 07-December-2015 to 31-December-2015	7,511.7	0.75	5,633.78
Thank you for your business.		<b>Total</b>	\$11,267.56

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.



RECEIVED  
JAN 13 2016

American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

PHONE  
386/409-5446  
FAX 386/957-4919

## INVOICE

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL. 32714

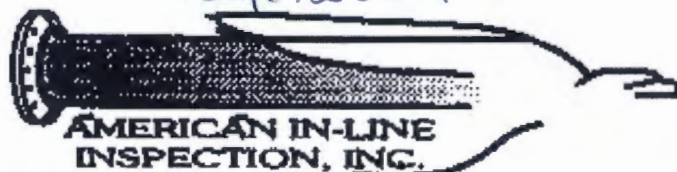
30050  
3004054  
PO#187306  
Recpt.# 215282

DATE	INVOICE #
1/14/2016	2016115

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER
Sanlando I & I	Net 30	2/13/2016	
DESCRIPTION	QTY	RATE	AMOUNT
Light cleaned 813.7' of existing 8" sanitary sewer collection system from 08-January-2016	813.7	0.75	610.28
Video inspection of 813.7' of existing 8" sanitary sewer collection system from 08-January-2016	813.7	0.75	610.28
Thank you for your business.		<b>Total</b>	\$1,220.56

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.

3004054  
PO 187306  
Recpt. 216397



American In-Line  
Inspection Service, Inc.  
415 Timaquan Trail  
Edgewater, FL 32132

PHONE  
386/409-5446  
FAX 386/957-4919

## INVOICE

Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL. 32714

DATE	INVOICE #
1/5/2016	2016100

JOB NAME	TERMS	DUE DATE	PURCHASE ORDER	
Sanlando I & I	Net 30	2/4/2016		
DESCRIPTION	QTY	RATE	AMOUNT	
Light cleaned 500.7' of existing 8" sanitary sewer collection system from 04-January-2016	500.7	0.75	375.53	
Video inspection of 500.7' of existing 8" sanitary sewer collection system from 04-January-2016	500.7	0.75	375.53	
Thank you for your business.		<b>Total</b>	\$751.06	

INVOICES UNPAID AFTER 30 DAYS WILL BE SUBJECT TO A 1.5% LATE CHARGE. ANY SERIOUSLY DELINQUENT ACCOUNTS WILL BE TURNED OVER TO OUR COLLECTION AGENCY OR ATTORNEY. PLEASE NOTE: THE PARTY ORDERING THE MATERIALS AND SERVICES AGREES TO PAY ALL COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-27**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<input type="text" value="New Project"/>		<b>Assigned Project #:</b> <input type="text" value="2016056"/>	
<b>Requested by:</b>	<input type="text" value="Bryan K. Gongre"/> <i>Project Manager / Area Manager</i>			<b>Date:</b>	<input type="text" value="4/12/2016"/>
<b>Project Name:</b>	<input type="text" value="Eng-Shadow Hills Diversion"/>				
<b>Company:</b>	<input type="text" value="255"/>	<input type="text" value="Sanlando Utilities Corp"/>			
<b>Business Unit:</b>	<input type="text" value="255101"/>	<input type="text" value="Sanlando Utilities Corp S"/>			
<b>Project Owner:</b>	<input type="text" value="Bryan K. Gongre"/>			<b>BU Type:</b>	<input type="text" value="SP"/>
<b>Project Manager:</b>	<input type="text" value="Bryan K. Gongre"/>			<b>Budget Owner / RVP:</b>	<input type="text" value="John Hoy"/> 03
<b>Start Date:</b>	<input type="text" value="4/18/2016"/>	<input type="text" value="Q2 2016"/>	<b>Region:</b> <input type="text" value="Florida"/> 04		
<b>Estimated End Date:</b>	<input type="text" value="12/31/2017"/>	<input type="text" value="Q4 2017"/>	<b>State:</b> <input type="text" value="FL"/>		
<b>Project Type:</b>	<input type="text" value="EH&amp;S Compliance"/>				
<b>Will project replace/retire any assets:</b>	<input type="text" value="Yes"/>				
<b>Previously Requested:</b>					
<b>This Request:</b>	<input type="text" value="\$260,423"/>				
<b>Still to be Requested:</b>	<input type="text"/>				
<b>Total Project Budget:</b>	<input type="text" value="\$260,423"/>				
<b>Description:</b>					
<p>Engineering, design and construction administration to divert wastewater flows from the Shadow Hills WWTF to the Wekiva WWTF. Components include replacement of the existing F-2 lift station, FM upsizing through The Springs subdivision and golf course, Des Pinar EQ tank and pumping station with on site FM improvements, FM from Shadow Hills to Des Pinar, decommissioning of the Shadow Hills WWTF, and a new operations building and equipment storage building at Des Pinar.</p> <p>This project also includes the delivery of the Alternatives Analysis conducted initially by CPH Engineers and completed by Kimley Horn Engineering.</p> <p>This project's budget will be amended to include construction costs once bids are received from qualified contractors.</p>					
<b>Timeline Considerations:</b>					
<p>The existing EQ tank and WW treatment plant at Shadow Hills have outlived their useful service life. This project must be designed and constructed prior to structural failure of the treatment components. It is estimated that design can be completed within 6 months and substantial construction completed by the end of the 3rd quarter of 2017.</p>					
<b>Inter-dependant Project</b>	<b>Project Number:</b>	<input type="text" value="NA"/>	<b>Project Name</b>	<input type="text" value="NA"/>	<input type="text" value="(If applicable)"/>
<b>Have engineering evaluations been performed?</b>	<input type="text" value="No"/>	<b>Engineering project number</b>	<input type="text" value="NA"/>	<input type="text" value="(If applicable)"/>	

**Justification and Benefits:**

The Shadow Hills WWTF serves approximately 1,726 connections and is situated on 16.4 acres. The facility was originally constructed in 1973 and upgraded in 1983 to an extended aeration 0.500 MGD Davco ring steel plant. The facility consists of a separate 125,000 gallon steel surge tank, aeration bays, clarifier, three digesters (one internal to the Davco plant and two separately), a separate chlorine contact chamber and seven percolation ponds. This facility has a single treatment train and is not interconnected with any other facility. The EQ tank has outlived its useful service life and the treatment train is in dire need of complete rehabilitation as are the two aerobic digesters. The only feasible way to address the current condition would be to construct an entirely new facility on the property, then decommission and remove the existing treatment facility. The Utility commissioned CPH Engineers to analyze various options to address the issues; the study was completed by Kimley-Horn. At the conclusion of the study three alternatives were identified:

1) Construct a new WWTF, then decommission the existing WWTF.

The two remaining options involve diverting all of the flow from Shadow Hills to the Wekiva WWTF after evaluating the existing collection system to determine its deficiencies. During this phase the engineers identified upgrades required within the Sanlando collection system that require: upsizing the existing force main on the Des Pinar plant site; upgrading pumping capacity at two downstream lift stations; upsizing the Springs Boulevard and golf course force mains; and replacing the existing F-2 lift station on Sabal Palm Drive.

2) Construct a master lift station at the Shadow Hills site and pump the wastewater to Wekiva through a new force main from Shadow Hills through the Des Pinar plant site to a series of lift stations that would all need to be upgraded due to increases in head conditions and additional flows. The existing lift station pumps that would deliver wastewater to the Shadow Hills master lift station would need to be downgraded.

3) Build a new force main between the existing incoming force main at the Shadow Hills WWTF and the Des Pinar plant site where an adequately sized EQ tank would be constructed with pumps that would deliver the flow downstream at a nominal flow rate to the Wekiva WWTF and thus avoiding any impacts to downstream lift stations and eliminating the need for pump station upgrades.

The alternatives analysis favors Option #3. Included with the system improvements will be the construction of a new Des Pinar operations building and equipment storage building. The new operations building will improve working conditions for field staff that have outgrown the existing building which also will act as an emergency response location for storm events and other emergencies. The existing pole barn roof is failing and can no longer be economically repaired. A new storage building will provide adequate cover for special equipment as well as secure storage for parts, tool, materials, and supplies.

**Risk Evaluation**

A failure of the tankage at Shadow Hills would create an environmental catastrophe as there would be no means to treat the incoming waste stream. This evaluation is determined upon the facility being a single source and visual observation of the deterioration throughout the facility.

**Alternatives Considered:**

Do nothing was considered but not feasible due to the environmental impacts of a failure.

The Alternatives Analysis study identified the three options that addressed the financial and operational aspects of each.

Option #1 - \$6,396,660

Option #2 - \$3,136,130

Option #3 - \$3,170,800

**Technical Review Summary:**

CPRT review was conducted on 4/13/16. No issues presented that required modifications.

## Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	260,423				
Project Spend in Current Plan	260,423				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	260,423	260,423	260,423	260,423	260,423

(if applicable)

## O&M Cost Impact B/(W)

--	--	--	--	--	--

## Financial Justification

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(163)	(163)
149	149

## Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(868)	(5,208)	(10,417)	(10,417)	(10,417)
Under-recovery on capital B/(W)	(4,867)	(19,076)	(18,295)	(17,513)	(16,732)
Net EBIT Impact B/(W)	(5,735)	(24,284)	(28,712)	(27,930)	(27,149)

## Timing and Supporting Information on Rate Recovery

This is a pro-forma project included in the upcoming 2016 consolidated rate case.

Retirements would include the existing field office, pole barn, Shadow Hills WWTP and various segments of force main.

## Regulatory Plan Implications

The project is in the current capital plan.

## Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Kimley Horn	\$236,923	Yes
2	CPH Engineers	\$239,801	No
3	Tetra Tech	\$549,966	No

### Component:

### Amount

Value Bid Elements

236,923.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

CPH Shadow Hills Alternatives Analysis

23,500.00

Total Project Budget

260,423.00

Object Account(s) to which project will be closed:

1300

Struct/Imprv Treat Plt

1380

Pumping Equipment Pump Plt

1345

Sewer Force Main/Srvc Lines

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

Tetra Tech's proposal reflected a lack of familiarity with the existing infrastructure and facilities. Their proposal their expectation of having to apply many more man-hours to the engineering design effort and at a higher aggregate rate than the other two engineering firms, both of which were very familiar with the facilities.





## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 4/21/2016

Does project align with utility plan and meet technical requirements? Yes ☐ No ☐

Comments

This projects aligns with Asset Management Plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 4/14/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

None.

### FP&A Review

Review Completed by Christie Kincaid Date: 4/28/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 4/21/2016 ☒

VP Operations: Patrick C. Flynn Date: 4/29/2016 ☒

President: John P. Hoy Date: 4/29/2016 ☒

### Approval or Re-Direction Comments





1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

January 20, 2015

Mr. Bryan Congre  
Regional Manager  
Utilities, Inc. of Longwood  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

RE: Shadow Hills WWTF Alternatives Analysis

Mr. Congre:

We are pleased to present this proposal to analyze the possible ways to send the flow from the Shadow Hills WWTF to the Wekiva WRF. As requested, this project will investigate ways to send the wastewater flow from the Shadow Hills wastewater facility to the Wekiva Water Reclamation Facility. Preliminarily, it appears that the most direct route would be to construct a master lift station at the Shadow Hills facility which would pump directly to the Des Pinar site. At Des Pinar, the existing receiving lift station may need to be modified to handle this additional flow. Subsequently, each downstream lift station and force main will need to be evaluated to determine the available capacity to handle these additional flows. Ultimately, the capital cost of sending the flows to the Wekiva WRF will be compared to the cost of constructing a new headworks and equalization tank at the Shadow Hills WWTF. In order to complete these additional services we will perform the following tasks:

#### Data Acquisition

We will coordinate with staff to get the current lift station pumps, flow rates, wet well sizes, and force main sizes of the areas that potentially can be impacted by this project. We will perform a preliminary instigation of potential pipeline routes and sites for the master pump stations by walking through the areas. We will note apparent conflicts that will need to be considered in the evaluation to determine costs and constructability. Now surveys or underground physical locates are included in this study.

#### Sewer System Modeling

The analysis will model the wastewater collection/transmission system to determine the lowest cost option to transfer the flows to the Wekiva facility. SewerCAD software will be used to evaluate transit time and pump cycling to determine the impacts of adding this flow to the existing infrastructure. The model will then be used to preliminarily size the system modifications necessary to efficiently transfer the flows.



#### Options Analysis

Based on the technical feasible options determined through the modeling effort, we will approximate the capital and operational cost differences between the options.

Consideration will also be given to difficulty of construction and availability of right of way in the development of the opinions of probable construction costs. This analysis will be the basis of the recommendation provided in the report. The most cost effective route will then be compared to the cost of adding a new headworks and equalization tank to the Shadow Hills WWTF.

#### **Payment**

The engineering fee for the services, described herein is estimated to be \$23,500.00, including out of pocket expenses.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

Sincerely,  
CPH INC.

Stephen N. Romano, P.E.  
Vice President/Associate

**ACCEPTED BY:**  
**UTILITIES, INC. OF LONGWOOD**

Date: 1/21/15



April 8, 2016

Bryan Gongre  
Utilities Inc., of Florida  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

Re: UIF Shadow Hills/Sanlando Improvements Professional Services Agreement

Dear Bryan:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc., of Florida ("Client") for providing services related to improvements necessary to decommission the Shadow Hills facility and divert wastewater flows to the Wekiva Hunt Club WRF in the Sanlando service area.

#### **Project Understanding**

Based on the results detailed in the Shadow Hills Alternatives Analysis, several improvements need to be completed to decommission the Shadow Hills WWTF and divert the flow into the Sanlando system. This project is broken into 5 projects and 6 tasks as follows:

1. Lift Station F-2 replacement
2. Springs Force Main Improvements
3. Des Pinar Master Pumping Station and Equalization Tank
4. Shadow Hills Force Main Improvements
5. Shadow Hills facility decommissioning
6. Construction administration services.

#### **Scope of Services**

Kimley-Horn will provide the services specifically set forth below.

##### ***Task 1: Lift Station F-2 Replacement***

Lift Station F-2 is located in a median along Sabal Palm Blvd. A replacement lift station (LS F-2A) will be provided on the old 10<sup>th</sup> green of the Sabal Palm golf course. This is approximately 850 feet away from the existing lift station. The existing lift station modifications will include converting the wet well to a standard manhole including lining the manhole, modifying the lid to a standard ring and cover, removing the valve vault and electrical gear and restoration of the median. The gravity collection system will then need to be extended to the new site. This will include approximately 3 manholes and the associated gravity pipeline. This section of Sabal Palm Drive will be surveyed to determine the existing invert elevations and road/right of way limits. This information will be used to design the gravity pipeline and its associated impacts such as road restoration, maintenance of traffic, and flow bypassing.

The new Lift station F-2A will be located on an easement on the tenth green of the old golf course. This task does not include providing easement documents and legal descriptions. It is assumed that these documents will be provided by the Owner and will be used to design the alignment and layout of the proposed lift station. Lift station design includes a 10-12 foot wet well, submersible pumps, valve vault, electrical feed and controls, a new generator, access driveway, fencing, landscaping, and the associated force main to connect to the existing force main.

This task includes the permitting effort and \$500 permit fee required for the proposed Lift Station F-2A through FDEP. This project will also require site plan permitting through Seminole County. This task includes the permitting effort and \$2,000 permit fee allowance for the Seminole County site plan permit.

**Task 2: Springs Blvd Force Main Improvements**

This task includes approximately 6,500 linear feet of 12-inch force main to be designed from Lift Station C-6 to Lift Station F-2A. The east 3,800 linear feet of this route is within the right of way of Springs Blvd. The west 2,700 feet is located in an easement currently running through the golf course. The design in the west 2,700 feet will include a plan view drawings laid out in the existing easement. The western end of the run for the connection into the LS F-2A collection system will use the surveying provided for Task 1 for the design of the work crossing Sabal Palm Drive.

The eastern 3,800 feet will be designed using the County GIS as a base with geospatially referenced aerials. Up to 4 soft dig locations will be used to confirm the location of underground utilities along the proposed route. The design will provided in plan view with profile details as necessary to describe conflicts. Surveying is not included in this task and can be included in the construction phase if required by the County right of way permitting process.

This task includes the permitting effort and \$500 application fee required for the proposed force main through FDEP. Right of Way permitting will be completed by the selected contractor.

**Task 3: Des Pinar Master Pumping Station and Equalization Tank**

This task includes the design of an equalization tank, screening facility, master pumping station, electrical improvements, and site piping at the Des Pinar site. The tank has been preliminarily designed with a 250,000 gallon capacity. This task will include a preliminary design which will include an operational evaluation of the proposed facility. This will be used to more accurately determine the peak rates that may be entering the tank. This information is necessary to establish the operational range needed in the tank and the flexibility of the controls needed to equalize the flows sent into the Wekiva collection area. This data will also be used to design the hydraulics associated with the proposed mechanical screen, site piping, and the pumping station.

A topographical survey of the area will be performed as it will be required for site plan and building permitting. Geotechnical investigations will be performed for the tank site. The design will include

plans and details associated with the proposed equipment as well as the pipeline improvements necessary to divert lift stations A-1 and A-6 to the equalization basin. A stub out will be provided for the Task 4 Shadow Hills force main.

Electrical design will be provided including instrumentation, controls, site lighting, and integration of the power needs with the existing on site generator.

This task includes the permitting effort and \$500 permit fee required for the proposed Lift Station F-2A through FDEP. This project will also require site plan permitting through Seminole County. This task includes the permitting effort and \$2,000 permit fee allowance for the Seminole County site plan permit.

#### ***Task 4: Shadow Hills Force Main Improvements***

This task includes the design of approximately 7,800 linear feet of 12-inch force main from the existing Shadow Hills wastewater facility to the proposed Des Pinar Master Pumping Station. This task will begin with an evaluation of the existing lift stations in the Longwood service area. This analysis will correspond with the analysis in Task 3 to provide a better understanding of the impacts on the existing lift stations. An increased head (pressure) condition is anticipated to be observed at the lift stations which will be pumping directly to the Des Pinar MPS. This analysis will be performed to determine the required pumping improvements at each lift station. This effort is anticipated to provide pump replacement criteria for each lift station but does not include any specific design plans. The associated changes to each station are anticipated to be small and may not require improvements to the mechanical and electrical infrastructure. No specific civil or electrical design to these stations is included in the scope of services. The findings of this analysis will be provided in a technical memorandum and specific field testing will be coordinated with staff during the construction phase of the project.

The force main will be designed in the right of way for the majority of this route. Seminole County GIS base maps and arials will be used as the basis of design. Up to 5 soft dig locations will be used to confirm the location of underground utilities along the proposed route. The design will be provided in plan view with profile details as necessary to describe conflicts. Surveying is not included in this task and can be included in the construction phase if required by the County right of way permitting process.

This task includes the permitting effort and \$500 application fee required for the proposed force main through FDEP.

#### ***Task 5: Shadow Hills WWTF Decommissioning***

This task includes the permitting and coordination assistance to decommission the Shadow Hills wastewater treatment facility. This includes a basic plan and scope of construction services to properly demolish the existing infrastructure and assist with recommendations for the construction



activities necessary. This work does not include any surveying, electrical, or geotechnical design or investigations.

#### **Task 6: Construction Administration Services**

These projects will need to be constructed in multiple phases and will entail more than one construction contract. One possible sequence would be to construct lift station F-2A first with the Springs Blvd force main. The second contract would be to construct the Des Pinar MPS. This could be constructed in parallel with the first project. The third contract would be to construct the Shadow Hills force main. The final contract would be to decommission the Shadow Hills WWTF.

This proposal is based on the preparation of three biddable sets of plans and associated specifications. The decommissioning would follow a guidance document prepared to assist with soliciting bids for the demolition of the existing facility.

This task includes construction administration, support services for building and right of way permitting, part time inspection, start-up and testing assistance, and record drawing preparation and close-out documents.

#### **Additional Services**

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates. Services not provided in this scope include:

- Additional surveying services such as: easement acquisition, legal descriptions, route/site surveys not specified in this scope of services,
- Design of lift station modifications associated with the changed hydraulic conditions

#### **Information Provided By Client**

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information necessary for the completion of this project that is available.

#### **Fee and Expenses**

Kimley-Horn will perform the services in Tasks 1-6 for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Client.

Task 1 LS F-2 Replacement	\$55,273
Task 2 Springs Blvd FM Improvements	\$28,308
Task 3 Des Pinar MPS Design	\$91,111
Task 4 Shadow Hills FM Improvements	\$24,240
Task 5 Shadow Hills WWTF Decommissioning	\$3,387
Task 6 Construction Services	\$34,603
<b>Total Lump Sum Fee</b>	<b>\$236,923</b>

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

**Closure**

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Utilities Inc., of Florida.

If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services only after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for sixty (60) days after the date of this letter.

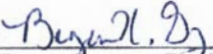
To ensure proper set up of your projects so that we can get started, please complete and return with the signed copy of this Agreement the attached Request for Information. Failure to supply this information could result in delay in starting work on your project.

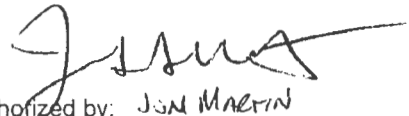
We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Very truly yours,  
**KIMLEY-HORN AND ASSOCIATES, INC.**

  
By: Steve Romano, PE  
Sr. Project Manager

**UTILITIES INC., OF FLORIDA**

 5/4/2016  
Bryan Congre, Regional Manager

  
Authorized by: JON MARTIN  
Title: SR. ASSOCIATE

Attachment – Standard Provisions



KIMLEY-HORN AND ASSOCIATES, INC.

STANDARD PROVISIONS

(1) **Consultant's Scope of Services and Additional Services.** The Consultant's undertaking to perform professional services extends only to the services specifically described in this Agreement. However, if requested by the Client and agreed to by the Consultant, the Consultant will perform Additional Services, which shall be governed by these provisions. Unless otherwise agreed to in writing, the Client shall pay the Consultant for any Additional Services an amount based upon the Consultant's then-current hourly rates plus an amount to cover certain direct expenses including telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Other direct expenses will be billed at 1.15 times cost.

(2) **Client's Responsibilities.** In addition to other responsibilities described herein or imposed by law, the Client shall:

- (a) Designate in writing a person to act as its representative with respect to this Agreement, such person having complete authority to transmit instructions, receive information, and make or interpret the Client's decisions.
- (b) Provide all information and criteria as to the Client's requirements, objectives, and expectations for the project including all numerical criteria that are to be met and all standards of development, design, or construction.
- (c) Provide to the Consultant all previous studies, plans, or other documents pertaining to the project and all new data reasonably necessary in the Consultant's opinion, such as site survey and engineering data, environmental impact assessments or statements, upon all of which the Consultant may rely.
- (d) Arrange for access to the site and other private or public property as required for the Consultant to provide its services.
- (e) Review all documents or oral reports presented by the Consultant and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of the Consultant.
- (f) Furnish approvals and permits from governmental authorities having jurisdiction over the project and approvals and consents from other parties as may be necessary for completion of the Consultant's services.
- (g) Cause to be provided such independent accounting, legal, insurance, cost estimating and overall feasibility services as the Client may require.
- (h) Give prompt written notice to the Consultant whenever the Client becomes aware of any development that affects the scope, timing, or payment of the Consultant's services or any defect or noncompliance in any aspect of the project.
- (i) Bear all costs incidental to the responsibilities of the Client.

(3) **Period of Services.** Unless otherwise stated herein, the Consultant will begin work timely after receipt of a properly executed copy of this Agreement and any required retainer amount. This Agreement is made in anticipation of conditions permitting continuous and orderly progress through completion of the services. Times for performance shall be extended as necessary for delays or suspensions due to circumstances that the Consultant does not control. If such delay or suspension extends for more than six months (cumulatively), Consultant's compensation shall be renegotiated.

(4) **Method of Payment.** Compensation shall be paid to the Consultant in accordance with the following provisions:

- (a) Invoices will be submitted periodically for services performed and expenses incurred. Payment of each invoice will be due within 25 days of receipt. The Client shall also pay any applicable sales tax. All retainers will be held by the Consultant for the duration of the project and applied against the final invoice. Interest will be added to accounts not paid within 25 days at the maximum rate allowed by law. If the Client fails to make any payment due to the Consultant under this or any other agreement within 30 days after the Consultant's transmittal of its invoice, the Consultant may, after giving notice to the Client, suspend services and withhold deliverables until all amounts due are paid in full and may commence proceedings, including filing liens, to secure its right to payment under this Agreement.
- (b) If the Client relies on payment or proceeds from a third party to pay Consultant and Client does not pay Consultant's invoice within 60 days of receipt, Consultant may communicate directly with such third party to secure payment.
- (c) If the Client objects to an invoice, it must advise the Consultant in writing giving its reasons within 14 days of receipt of the invoice or the Client's objections will be waived, and the invoice shall conclusively be deemed due and owing. If the Client objects to only a portion of the invoice, payment for all other portions remains due within 25 days of receipt.
- (d) The Client agrees that the payment to the Consultant is not subject to any contingency or condition. The Consultant may negotiate payment of any check tendered by the Client, even if the words "in full satisfaction" or words intended to have similar effect appear on the check without such negotiation being an accord and satisfaction of any disputed debt and without prejudicing any right of the Consultant to collect additional amounts from the Client.

(5) **Use of Documents.** All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The



## Shadow Hills WWTF Alternatives Analysis

Utilities, Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

February 2016



## INTRODUCTION

This report was prepared to analyze the possible ways to send flow from the Shadow Hills wastewater treatment facility (WWTF) to the Wekiva Water Reclamation Facility (WRF). The Shadow Hills WWTF is part of the former Utilities Inc., of Longwood service area and is directly adjacent to the former Sanlando eastern service area boundary as shown in [Figure 1](#). The Shadow Hills facility is aging and in need of significant rehabilitation. This analysis investigates the potential alternative of closing the facility and pumping all flows into the Sanlando service area versus performing major rehabilitation and reconstruction of the Shadow Hills facility.

## EXISTING CONDITIONS

The existing wastewater system in the Sanlando service area is made up of three separate collection systems that manifold together at the Wekiva WRF. These three systems are associated with the three force mains that enter the facility. The three force mains manifold together at the WRF close to the discharge point into the headworks. Therefore, little interference between the three collection areas is experienced. The northeast system enters the eastern side of the site and is the primary focus of this analysis. The northeast system also includes flows generated from the former Des Pinar service area, which is directly adjacent to the Shadow Hills WWTF collection area.

Within the northeast system, there are eleven lift stations that are connected to the 14-inch force main that enters the Wekiva WRF. The eleven lift stations receive flows by gravity sewer systems and from force mains discharging flow from smaller lift station basins into larger lift stations.

The northeast collection area is divided into three trunk lines as shown in [Figure 2](#). LS F-1 collects the northern flows. Lift stations N-1, N-3, C-8, and C-13 collect the southeastern flows. Lift Station F-2 collects the eastern flow. The LS F-2 collection area extends across I-4 into the former Des Pinar service area. There is an 8-inch connection between the eastern and southeastern areas near LS C-13; however, this connection remains normally closed.

The hydraulic model of the existing northeast system was analyzed over a 24-hour period using an Extended Period Simulation (EPS) in SewerCAD. Modeling the system is an iterative process. The existing condition model is used as a baseline from which we can draw conclusions as to how the system will operate when the proposed modifications are made. Modeling is never 100% accurate and should only be used as a tool to understand the impacts changes to the system will make on the existing operations and infrastructure. To this end, indicators are used to determine the existing weak points in the system. Modeling allows us to test potential solutions that provide the greatest overall beneficial impact. For the combined Sanlando/Longwood model, a standard diurnal curve was used to model the high and low flows over a 24-hour period. During the analysis, there are certain indicators that are identified which can result in potential problems. Indicators include high velocities resulting in increased head conditions, wet well overflowing, extended pump run times, and time periods when the pumps cannot deliver flow (dead heading).

### *Analysis of the Existing System*

The model assumes the existing northeast system is sending an average daily flow (ADF) of approximately 1.24 MGD to the Wekiva WRF. Before any additional flow was added to the existing system, the model showed that LS C-4 and LS C-6, both located along Springs Boulevard, contain pumps that occasionally were unable to deliver flow to the system along the 10-inch force main. This condition occurred multiple times over the 24-hour simulation against the existing head condition of the system. While the pumps occasionally would dead head, the wet well would not overflow. This indicates the lift stations are at capacity with little margin for flow variation. Downstream of these two lift stations there is 2,740 LF of 6-inch force main located north of the golf course between LS F-3 and LS F-2. This existing force main is periodically experiencing a maximum velocity of 7.54 ft/s. This significantly increases the friction losses in the system causing the connected lift stations to pump less flow at a higher head condition. Upsizing this force main to a 12-inch pipe size reduces the existing flow velocity to 4.27 ft/s. By reducing the fluid velocity in the force main, less friction loss is developed. This translates to a lower head condition placed on the lift station pumps feeding this force main. Replacing the existing 6-inch force main with a 12-inch force main, as shown in [Figure 3](#), increases the efficiency of the system and eliminates the need to replace the pumps at LS C-4 and LS C-6. Upsizing the 6-inch force main is beneficial to the existing system and will also provide the needed future hydraulic capacity required in the event that the Shadow Hills flows are diverted to the Wekiva WRF through the system.





UTILITIES INC.  
SANLANDO  
SERVICE AREA

UTILITIES INC.  
LONGWOOD SERVICE AREA

RIDGE LAKE

GRACE LAKE

INTERSTATE 4

FOURDECE RUN

DES PINAR

SHADOW HILLS  
WWTF

SWEET BROWN BRANCH

ROCK LAKE

WINSOR LAKE

STATE ROAD 64

STATE ROAD 64

ISLAND CREEK

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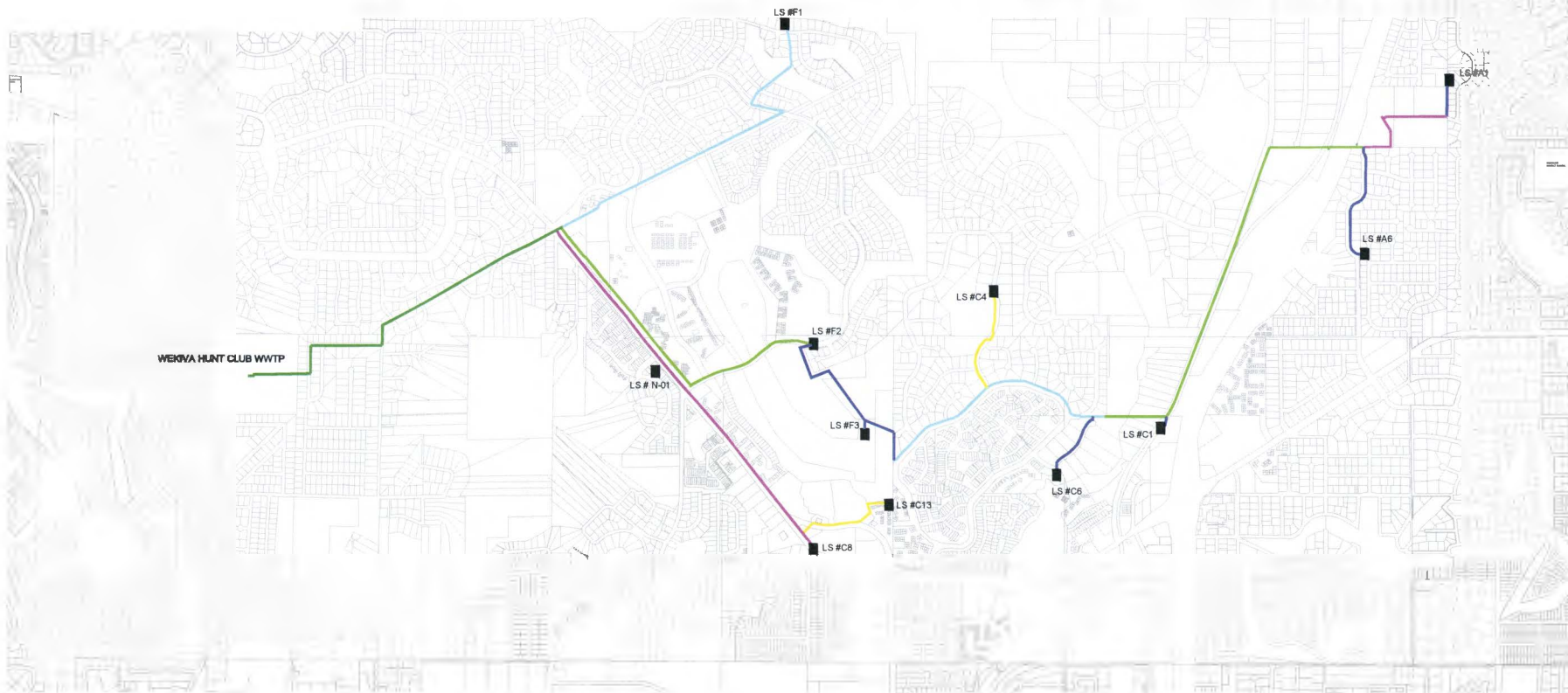
SHADOW HILLS WWTF  
ALTERNATIVES ANALYSIS  
SERVICE AREA MAP



FIGURE  
1

**LEGEND:**

4" FORCE MAIN	
6" FORCE MAIN	
8" FORCE MAIN	
10" FORCE MAIN	
12" FORCE MAIN	
14" FORCE MAIN	



SCALE:  
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DRAWN BY  
CHECKED BY

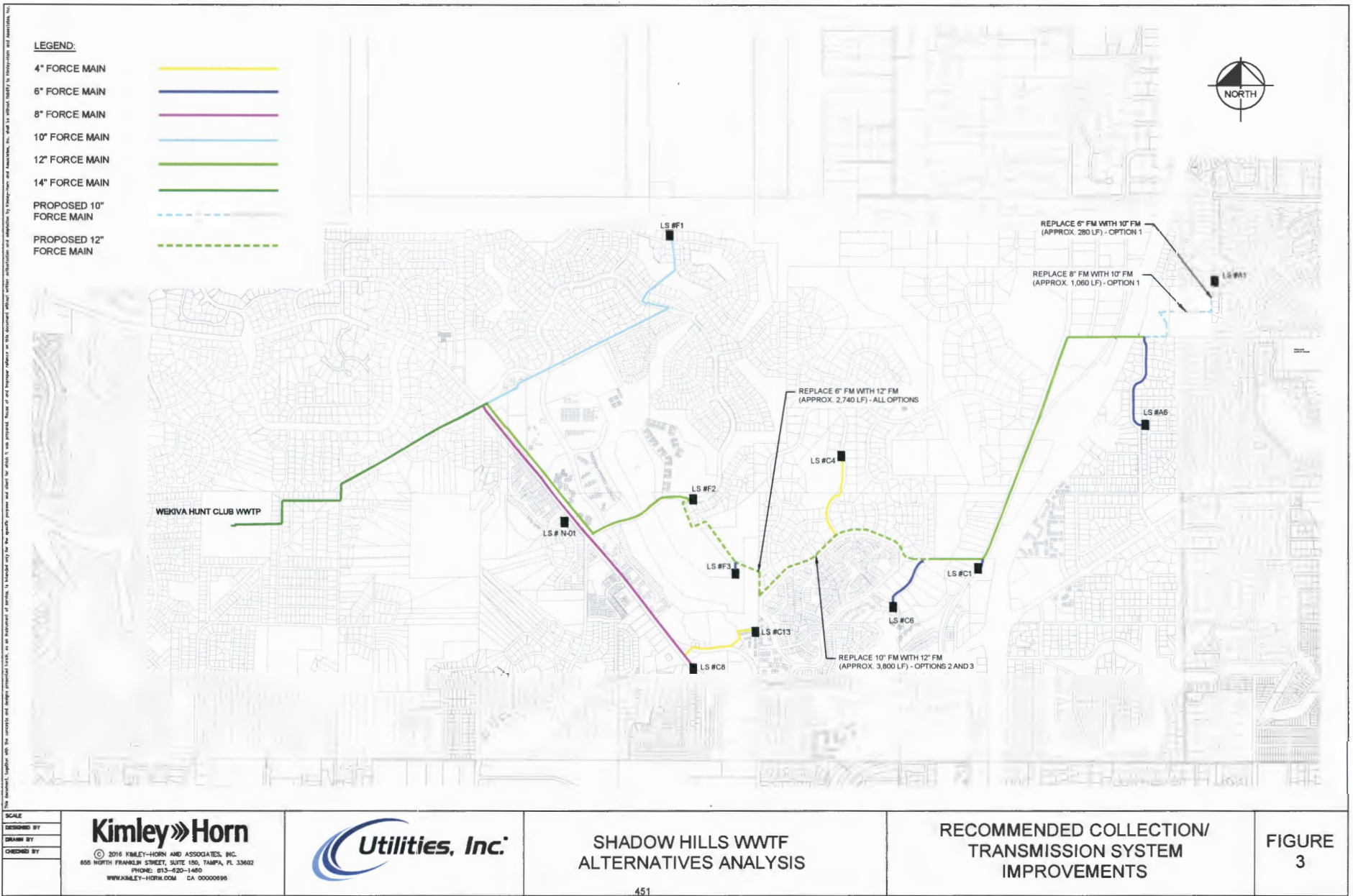
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SHADOW HILLS WWTF  
ALTERNATIVES ANALYSIS

NORTHEAST SANLANDO EXISTING  
FORCE MAIN TRANSMISSION SYSTEM

FIGURE  
2





Another improvement to the existing system that is recommended is upsizing the force main exiting LS A-1. The discharge force main at LS A-1 contains approximately 280 LF of 6-inch force main which experiences a maximum velocity of 10.68 ft/s. This 6-inch force main then increases in size to an 8-inch force main that experiences a maximum velocity of 6.01 ft/s. Approximately 1,060 LF of 8-inch force main connects the 6-inch force main to a 12-inch force main at the juncture with a force main coming from LS A-6. Upsizing both the 6-inch and 8-inch segments noted above to a 10-inch force main reduces the velocity of the existing flows to 4.44 ft/s. Alternatively, upsizing both segments to a 12-inch force main reduces the velocity of the existing flows to 3.17 ft/s. This decrease in velocity under either upsizing scenario will reduce the system pressures significantly and thus provide additional hydraulic capacity for future flows. If it is decided to rehabilitate the Shadow Hills WWTF and not divert its flow to the Wekiva WRF, then we recommend upsizing both segments of force main to a 10-inch pipe size in order to address properly the hydraulic limitations of the existing pipe network.

Based on our discussions with operations staff, we understand that LS F-2 is experiencing excessive run times under current conditions. This is consistent with the hydraulic model. According to the model, Pump 1 is constantly running (152 starts) with Pump 2 occasionally turning on (three starts). This indicates the existing pumps may be undersized relative to the flows being received at LS F-2 resulting in extended run times. While the modeling shows the pumps handle the normal peaking flows through the station, it barely does so. In the event of higher flows due to storm events and impacts from Inflow and Infiltration (I/I), there is certainly a high probability of recurring overflows at LS F-2. This station would benefit from a larger wet well which would not only provide more storage volume but could accommodate larger pumps or a triplex pumping configuration. Further, the station is aging and requires complete rehabilitation. The wet well and infrastructure is deteriorating and in need of replacement. Rehabilitating this lift station will require bypass pumping, full renovation and lining of the wet well, new pumps and controls, and new discharge piping and valves. A rehabilitation on this scale for a station this size is estimated to cost approximately \$225,000 but without increasing the pumping capacity of the lift station to meet current peak flow conditions. Due to the large loads placed on the station, it is also prudent to investigate the cost to replace the station completely.

Unfortunately, the site is very space restricted and constructing a new, larger wet well will not be possible in the existing location. LS F-2 is currently located in a median on Sabal Palm Drive. The median is approximately 30 feet wide. There is approximately 150 feet of median currently clear to the west of the existing station. It may be possible to construct a new lift station in that portion of the road right-of-way and then abandon the existing station. Otherwise, it will not be possible to relocate the existing station without acquiring real property in close proximity to it. Fortunately, the owner of the former Sabal Point Golf Course is planning the redevelopment of a portion of the golf course in 2016. The former 10th green is located approximately 700 feet away from the existing LS F-2 and would provide considerably better siting conditions for construction of a new pump station. Constructing a new lift station will allow for a larger wet well with either a three or four-pump configuration. This would allow for smoother operations, easier maintenance, enhanced reliability and installation of a dedicated emergency generator at this critical facility. The cost to construct a new lift station is estimated to be \$400,000. Additionally, the collection system needs to be modified to connect the new lift station with the existing infrastructure. **Figure 4** shows an estimated configuration. These modifications are estimated to cost an additional \$200,000.

Based on these findings, there are specific upgrades to the existing system that are necessary even if it is determined that the Shadow Hills flow will not be diverted to the Wekiva WRF. The required upgrades include upsizing the existing 2,740 LF of 6-inch force main on Springs Blvd to a 12-inch force main. This modification has been integrated into the model since it is recommended in any scenario.

Lift Station F-2 is also highly recommended for rehabilitation or replacement. The integration of these improvements is addressed separately for each scenario in the modeling.

The improvements to the 1,340 linear feet of 6-inch and 8-inch force main on the former Des Pinar WWTP site from LS A-1 will only be required if the Shadow Hills flow is not diverted into the Sanlando system. These modifications change with each option as further described.

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**LEGEND:**

- 8" FORCE MAIN ———
- 12" FORCE MAIN ———
- GRAVITY MAIN ———
- MANHOLE ●
- PROPOSED 12" FORCE MAIN - - - - -
- PROPOSED GRAVITY MAIN ———
- PROPOSED MANHOLE ●



SCALE
DESIGNED BY
DRAWN BY
CHECKED BY

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SANLANDO SYSTEM  
 IMPROVEMENTS  
 453



FIGURE  
 4



## *Shadow Hills WWTF Analysis*

Based on an analysis of flow data from 2013 through 2015, the Shadow Hills WWTF has an Average Daily Flow (ADF) of 0.388 MGD and a maximum daily flow of 0.503 MGD. The Shadow Hills WWTF has a permitted capacity of 0.470 MGD AADF. For the purpose of this model, the maximum daily flow of 0.503 MGD was used as the basis to determine the proposed pumps, wet well size, force main diameter, and the sanitary loading for the proposed lift station for Shadow Hills.

Within the Sanlando service area the Wekiva Hunt Club WRF receives all of the sanitary flows generated by its sewer customers. This facility is permitted for 2.900 MGD on an annual average basis. The facility currently averages 2.005 MGD with its existing loads. Adding the Shadow Hills flows on an average loading basis will increase the flows to the Wekiva WRF to 2.393 MGD, approximately 82.5% of capacity. Therefore, no upgrade or expansion of the treatment and disposal capacity of the WRF is required in advance of a Shadow Hills diversion of flow.

Different scenarios of adding the flows from Shadow Hills to the Sanlando system were performed. These scenarios include bypassing LS A-1, manifolded a new force main from Shadow Hills directly into the downstream force main and adding a surge tank at the Des Pinar site. The surge tank will receive flows from Shadow Hills and then repump the flows into the system during non-peak hours or over a 24-hour period at a nearly constant flow rate.

The proposed force main route from Shadow Hills will run south along Lincolnwood Lane, then head west along EE Williamson Road, turn south down Penelope Drive, then cross the park area east of the Des Pinar site before terminating at the surge tank. If the force main is manifolded into the existing system without the construction of a surge tank, the new force main would be constructed all the way to the junction with LS A-6's force main east of the I-4 crossing. If a surge tank is added, the surge tank will receive flows from LS A-1, LS A-6, and the force main from the Shadow Hills lift stations.

Running the model inclusive of the Shadow Hills flow identified associated pumping and hydraulic problems. To eliminate these issues, multiple iterations of the model were run that included increasing the size of the smaller force mains that experience high velocities as well as varying pump selections to predict optimal design conditions. All iterations were done to minimize adverse impacts to any of the existing stations.

### Option 1- Continue the operation of the Shadow Hills WWTP

The first option evaluated is to construct a new head works and surge tank at the Shadow Hills WWTP site and leave the treatment facilities in operation. It is not possible to demolish the tank in advance of constructing the new surge tank, so the new tank will need to be constructed while the existing tank is in operation. The only viable location available to build the new surge tank is at the north end of the parking area. This location is sufficient for construction and operational purposes but places the plant headworks significantly closer to the neighboring homes. The existing surge tank is approximately 225 feet away from the nearest home whereas the proposed surge tank would be approximately 75 feet away from the nearest home. Deodorizers are currently used to keep odor complaints to a minimum; however, the drastic decrease in buffering space increases the likelihood that spray deodorizers will not be sufficient to prevent odor complaints. Therefore, it is prudent to plan on covering the surge tank and providing an odor control unit with the new facility.

The wastewater facility is over 35 years old and needs major rehabilitation or full replacement within the next 36 months. Unfortunately, there is only one treatment train at this facility with no ability to bypass the facility and divert flow to a nearby facility as a temporary condition. Therefore, the treatment plant cannot be shut down for rehabilitation. The facility is a ringed steel plant that has significantly deteriorated due to age and continuous use over the last 35 years. The nature of these types of plants is that the steel will degrade over time, and thus put structural steel providing the hydrostatic support at a greater risk of failure. This limits the ability of the plant operator to vary water levels in the plant without increasing the risk of catastrophic failure. As this facility nears the end of its service life, the only options then available are to either 1) construct a new facility or 2) decommission the facility by diverting influent flow to another facility. For the purposes of this analysis, the cost of constructing a new facility was included in this scenario as it is expected to be necessary within the next three years. The cost of sending the flows to an alternative facility is considered in Options 2 and 3.

Option 1 places no additional impacts on the Sanlando service area.

## Option 2 - Diversion of flow using a master pump station at Shadow Hills

The second option includes the installation of a master pump station at the Shadow Hills WWTF, which will pump all of the flow directly to Lift Station F-2, then re-pump the flow to the Wekiva WRF. The Shadow Hills master pump station will need to be sized to accommodate the peak flows coming into the facility. Based on the information provided, the facility experiences a maximum daily flow of 0.504 MGD and an average daily flow of 0.388 MGD. Considering that the peak instantaneous flows into the facility are unknown, a conservative peaking factor of 4.0 was used in the evaluation of this report. This peaking factor was applied to the known flow data resulting in a requirement that the master lift station have a pumping capacity of approximately 1,100 gpm.

This master pump station could be constructed in one of two ways. If the station is constructed to minimize the impact to the Shadow Hills collection system, the wet well and station would be constructed above grade. Doing so would avoid changing the head conditions on the upstream lift stations. However, this is highly unconventional and would likely negatively impact the redevelopment of the wastewater facility site. Alternatively, a conventional subgrade master pump station could be constructed. However, this would likely require most, if not all, of the lift stations currently pumping to the wastewater facility to be downsized with lower horsepower pumps reflecting the reduced head condition.

For the purposes of Option 2, constructing a new subgrade master lift station at Shadow Hills is necessary. This scenario analyzed the impact of the flows from the Shadow Hills master lift station being manifolded into the downstream force main of the Des Pinar Lift Station A-1, please refer to **Figure 5**. By-passing LS A-1 resulted in complications to the downstream lift stations as well as the upstream lift station, LS A-1. Lift stations A-1, A-6, C-1, C-4 and C-6 were not able to pump against the increased flow and head in the system resulting in the lift stations overflowing.

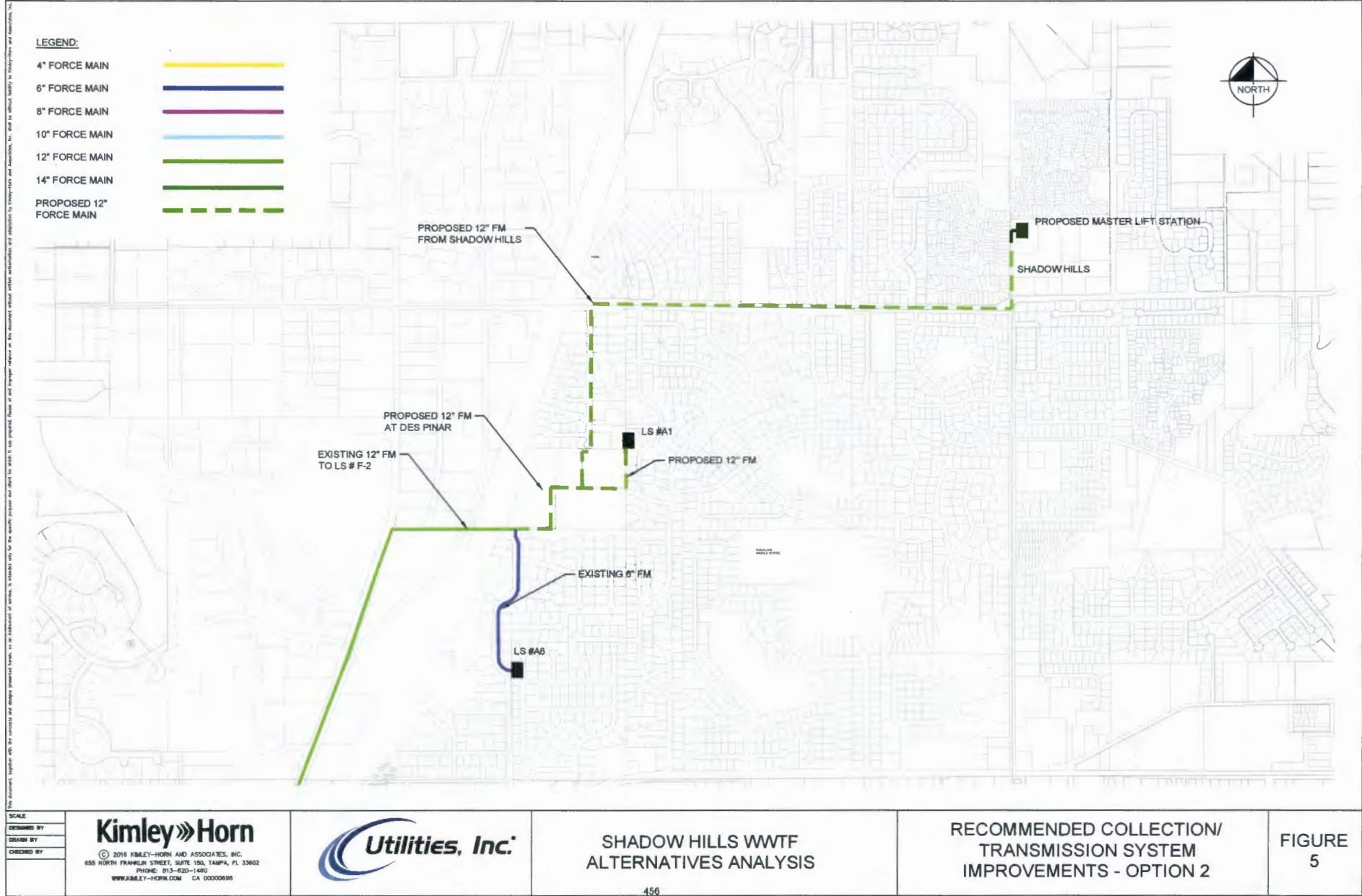
Necessary modifications to the system would include upsizing the pumps at LS A-1, LS A-6, LS C-1, LS C-4 and LS C-6. Replacing these pumps will enable them to pump successfully and thus allow the system to operate efficiently. Additionally, upsizing all the pumps to a higher head pump will result in a higher head for the overall system, which can result in more problems downstream of these lift stations. Replacing the pumps has been successfully modeled; however, these pumps will need to be carefully selected in order to have the entire system function properly. The model, while effective at simulating reality, does not alone provide a formal design. The pumps at these lift stations will be selected during final design if this option is selected. Additionally, the force main run from LS F-2 to the LS C6 tie-in is initially 12-inch, then reduces to a 10-inch, then further reduces to a 6-inch. As previously described the 6-inch pipe will be replaced in any scenario; however, the additional flows from Shadow Hills would necessitate an increase of the 3,800 linear feet of 10-inch to a 12-inch as well as the 2,740 linear feet of 6-inch pipe for a total of 6,540 linear feet.

Also, with the increased flow diverted from Shadow Hills, the existing pumps at LS F-2 are both constantly pumping and the station is overflowing according to the model. Comparing the existing conditions of LS F-2 with the conditions resulting from the addition of Shadow Hills flows directly into the system, both pumps at LS F-2 are significantly pumping more often. There are nearly twice as many daily pump starts with the station operating almost half of the time with both pumps running. The existing pumps are not able to keep up with the increased flow resulting in the wet well overflowing during peak hours. Consequently, the pumps at LSF-2 will need to be upsized as recommended previously to accommodate the increase in flow.

Once the existing Shadow Hills wastewater facility is decommissioned, the property could be sold for redevelopment. The property consists of four (4) parcels totaling 16.4 acres and is valued at \$587,330 according to the Seminole County property appraiser's office. Decommissioning the facility is estimated to cost approximately \$100,000. This provides a net revenue of an estimated \$487,000 offsetting some of the modification costs.

In summary, Option 2 requires a new master lift station at Shadow Hills, pump downgrades to nine lift stations in the Shadow Hills collection system, pump upgrades to five lift stations in the Sanlando collection system, modification or replacement of LS F-2, Springs Boulevard force main modifications, and the LS A-1 force main modifications.





## Option 3

The third option involves building a surge tank at the Des Pinar site. This surge tank would collect all of the flows from the Shadow Hills and Des Pinar service areas as shown in **Figure 6**. The surge tank would pump the flows into the system on a continuous basis at a nearly constant flow rate of approximately 500 gpm. When modeling the surge tank in SewerCAD there were no adverse effects on the downstream lift stations. The only modifications to the system with the construction of a surge tank would be upsizing 2,740 LF of 6-inch force main upstream of LS F-2 to 12-inch force main and upsizing 3,800 LF of 10-inch force main to 12-inch force main along Springs Boulevard in order to provide the needed hydraulic capacity, as previously described under Option 2.

In this scenario, the need for a master lift station at Shadow Hills would be eliminated by upgrading nine (9) lift stations to higher head (pressure) pumps so they can pump collectively and directly to the proposed Des Pinar surge tank.

The analysis of LS F-2 with the surge tank pumps producing a constant rate of 500 gpm on a continuous basis showed that the pumps increased in pumping time compared to existing conditions due to the increased flow, but was significantly less than under Option 2. Further, the wet well did not overflow showing that the lift station is pushed to capacity but may not yet be exceeding capacity. However, due to the age and condition of the existing LS F-2 it is still recommended to replace the station with a pumping station having a higher pumping capacity. This would provide a greater level of service and reliability as well as allow the station to better accommodate abnormal conditions such as large storm events.

As previously described, the Shadow Hills wastewater facility would be decommissioned and the property sold for redevelopment. This provides net proceeds of an estimated \$487,000 offsetting some of the capital costs.







## CAPITAL COST COMPARISON

Each of the three options was analyzed to determine its associated capital costs. The implications of each option on annual operating expense should also be considered in the decision making process. A breakdown of the operations and maintenance costs per option was developed separately as shown below.

### Option 1

As described previously, this option entails making modifications to the existing facility and keeping the Shadow Hills WWTF in the former Utilities Inc. of Longwood system separated from the former Sanlando Utilities Corporation system. The primary item that needs to be replaced is the surge tank and associated equipment. Due to the space restricted nature of the site, the new facilities will need to be constructed closer to the neighboring residential homes. This necessitates an increase in capital costs to include odor control. This yields an initial capital expenditure of approximately \$2.9M. However, the existing treatment plant is also aging and will need to be replaced within the next three to five years. We have estimated the replacement cost of the facility at an additional \$3.5M. This yields a total capital investment at the site of \$6.4M in the next five years or less.

Table 1: Option 1 - WWTF Modification

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
1	Mobilization (10%)	LS	1	10%	\$205,050
2	Springs Blvd 12-inch PVC Force Main	LF	2,740	\$75	\$205,500
3	Lift Station F-2 Replacement	LS	1	\$600,000	\$600,000
4	Site Work	LS	1	\$20,000	\$20,000
5	New Head Works & misc. materials	LS	1	\$350,000	\$350,000
6	Equalization Tanks & misc. materials	LS	1	\$200,000	\$200,000
7	Equalization Pumps	LS	1	\$30,000	\$30,000
8	Equalization Mixers	LS	1	\$35,000	\$35,000
9	Site Piping	LS	1	\$75,000	\$75,000
10	Odor Control	LS	1	\$350,000	\$350,000
11	Instrumentation and Control	LS	1	\$60,000	\$60,000
12	Electrical	LS	1	\$125,000	\$125,000
13	Contingency (20%)	LS	1	20%	\$451,110
14	Design & Permitting (7% of const.)	LS	1	7%	\$190,000
<b>Sub-Total</b>					<b>\$2,896,660</b>
15	Construction of new 0.500 MGD WWTF	LS	1	\$3,500,000	\$3,500,000
<b>TOTAL</b>					<b>\$6,396,660</b>

## Option 2

Option 2 includes the construction of a master lift station at the Shadow Hills wastewater facility. This option is preliminarily estimated at \$3.623M which includes the improvements in the Sanlando and Shadow Hills systems. If the decommissioning of the facility and sale of the real property is considered, it reduces this cost by \$487,330 to \$3.136M. Further, this option will generate a reduction in operations and maintenance costs after the decommissioning of the Shadow Hills facility.

Table 2: Option 2 - Master Lift Station

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
1	Mobilization (10%)	LS	1	10%	\$256,550
2	Springs Blvd 12-inch PVC Force Main	LF	2,740	\$75	\$205,500
3	Additional Springs Blvd. 12-inch PVC FM	LF	3,800	\$75	\$285,000
4	Des Pinar 12-inch PVC Force Main	LF	1,340	\$75	\$100,500
5	Lift Station F-2 Replacement	LS	1	\$600,000	\$600,000
6	Shadow Hills Master Lift Station	LS	1	\$250,000	\$250,000
7	Shadow Hills 12-inch PVC Force Main	LF	7,760	\$75	\$582,000
8	Open cut and Repair Roadway	SY	2250	\$50	\$112,500
9	Open Cut and Replace Sidewalk	LF	4000	\$25	\$100,000
10	UIL Lift Station Pump replacements	EA	9	\$20,000	\$180,000
11	Lift Station A-1 Improvements	LS	1	\$30,000	\$30,000
12	Pump upgrades at Lift Station A-6	LS	1	\$30,000	\$30,000
13	Pump upgrades at Lift Station C-4	LS	1	\$30,000	\$30,000
14	Pump upgrades at Lift Station C-6	LS	1	\$30,000	\$30,000
15	Pump upgrades at Lift Station C-1	LS	1	\$30,000	\$30,000
16	Contingency (20%)	LS	1	20%	\$564,410
17	Design & Permitting (7% of const.)	LS	1	7%	\$237,000
				<b>Sub-Total</b>	<b>\$3,623,460</b>
18	Shadow Hills Decommissioning				\$100,000
19	Property Sale (per SCPAFL.org)				(\$587,330)
				<b>TOTAL</b>	<b>\$3,136,130</b>



## Option 3

Option 3 includes the construction of a surge tank at the Des Pinar facility. This allows for a reduced number of improvements within the Shadow Hills system. This option has the added benefit of equalizing flows from Shadow Hills and Des Pinar collection areas thereby providing less impact on the Wekiva system and the Wekiva WRF. This option is preliminarily estimated at \$3.658M which includes the improvements in the Sanlando and Shadow Hills systems. If the decommissioning of the facility and sale of the real property is considered, it reduces this cost by \$487,330 to \$3.170M. Further, this option will generate a reduction in operations and maintenance costs following the decommissioning of the Shadow Hills facility.

Table 3: Option 3 - Surge Tank at Des Pinar

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
1	Mobilization (10%)	LS	1	10%	\$259,025
2	Springs Blvd 12-inch PVC Force Main	LF	2,740	\$75	\$205,500
3	Additional Springs Blvd. 12-inch PVC FM	LF	3,800	\$75	\$285,000
4	Lift Station F-2 replacement	LS	1	\$600,000	\$600,000
5	UIL Lift Station upgrades	EA	6	\$30,000	\$180,000
6	12-inch PVC Force Main	LF	7,830	\$75	\$587,250
7	Open cut and Repair Roadway	SY	2250	\$50	\$112,500
8	Open Cut and Replace Sidewalk	LF	4000	\$25	\$100,000
9	250,000 gallon Surge Tank	LS	1	\$275,000	\$275,000
10	Surge Pumps and Controls	LS	1	\$40,000	\$40,000
11	Mixers	LS	1	\$30,000	\$30,000
12	Site work	LS	1	\$25,000	\$25,000
13	Electrical & Instrumentation	LS	1	\$150,000	\$150,000
14	Contingency (20%)	LS	1	20%	\$569,855
15	Design & Permitting (7% of const.)	LS	1	7%	\$239,000
				<b>Sub-Total</b>	<b>\$3,658,130</b>
16	Shadow Hills Decommissioning				\$100,000
17	Property Sale (per SCPAFL.org)				(\$587,330)
				<b>TOTAL</b>	<b>\$3,170,80</b>

## ANNUAL OPERATIONS COST COMPARISON

Each of the three options was analyzed for the potential impact on annual operations and maintenance (O&M) costs associated with each option. These O&M costs are developed to planning level accuracy and projected over a twenty year period to determine the long term implications of each option. Each of the options was evaluated assuming the existing system improvements will be made as described above.

### Option 1

As described previously, this option entails making modifications to the existing facility and keeping the Shadow Hills WWTF in the former Utilities Inc. of Longwood system separated from the former Sanlando system. The O&M costs associated with the Shadow Hills WWTF include labor, chemicals, power, compliance requirements, site maintenance, and regular scheduled maintenance of equipment and structures. The treatment costs associated with power and chemicals can be directly offset by the increase in costs that would be incurred by the Wekiva WRF if flows were transferred there. Therefore, these costs were considered to be outside this analysis. Assuming one full time employment position is required to operate and maintain the Shadow Hills facility, eliminating one FTE yields an estimated savings of \$60,000 per year in labor costs. An additional \$50,000 per year in general maintenance costs and another \$20,000 in compliance costs is estimated. This yields an annual cost of \$130,000 that could be realized if this option is not chosen. Therefore, no reduction in labor cost is used for the O&M cost projection in this scenario.

Table 4. Option 1 Operational Costs

OPTION 1						
Lift Station	Modeled 24-hour Flow	Modeled Pumping Rate	Modeled Head Condition	Calculated Power		Power Costs (@\$.10/kW-hr)
	MGD	gpm	feet	kW	kW-hr/Day	\$/year
A-1	0.300	640	72	14.49	113.20	\$4,131.91
A-6	0.060	393	70	8.65	22.01	\$803.37
C-1	0.005	150	91	4.29	2.19	\$80.05
C-4	0.040	227	66	4.71	13.83	\$504.89
C-6	0.140	415	52	6.78	38.12	\$1,391.40
F-2 (pmp 1)	1.016	1184	77	28.66	409.76	\$14,956.11
F-2 (pmp 2)	0.000	0	0	0	0.00	—
F-3	0.070	500	26	4.09	9.54	\$348.33
F-1	0.012	933	100	29.33	6.22	\$227.00
C-8	0.008	100	77	2.42	3.04	\$111.05
C-13	0.095	334	58	6.09	28.97	\$1,057.43
N-1	0.042	300	60	5.66	13.05	\$476.49
N-3	0.067	436	70	9.59	24.74	\$902.95
						<b>\$24,990.97</b>

Assuming a 3% annual growth in costs the 20 year extrapolation of O&M costs were calculated. Starting with an operating cost of \$155,000, after 20 years of operation the cumulative cost is \$4.165 million.



## Option 2

Option 2 includes the construction of a master lift station at the Shadow Hills wastewater facility. The primary operations and maintenance costs associated with this option are the pumping costs associated with the new master lift station. As shown in Table 5, the power costs for the Sanlando lift stations increases to \$38,819 per year with an additional \$12,030 per year associated with the Shadow Hills Master Lift Station. There will also be a reduced lift station pumping cost for the lift stations which will pump to a below grade master pump station rather than into the existing wastewater treatment facility. This is hard to quantify as the Shadow Hills lift stations were not modeled; however, it is estimated that an annual reduction of approximately \$2,000 could be realized. This yields a total annual power cost for the modeled area of \$48,850 after the capital improvements are completed.

Table 5. Option 2 Operational Costs

OPTION 2						
Lift Station	Modeled 24-hour Flow	Modeled Pumping Rate	Modeled Head Condition	Calculated Power		Power Costs (@\$0.10/kW-hr)
	MGD	gpm	feet	kW	kW-hr/Day	\$/year
A-1	0.300	1100	39	13.49	61.32	\$2,238.11
A-6	0.060	521	59	9.66	18.54	\$676.76
C-1	0.005	134	92	3.88	2.22	\$81.04
C-4	0.040	227	66	4.71	13.83	\$504.89
C-6	0.140	515	56	9.07	41.09	\$1,499.93
F-2 (pmp 1)	0.913	1150	80	28.92	475.15	\$17,343.06
F-2 (pmp 2)	0.653	840	107	28.26	366.41	\$13,373.92
F-3	0.070	500	26	4.09	9.54	\$348.33
F-1	0.012	741	116	27.02	7.21	\$263.31
C-8	0.008	152	73	3.49	2.89	\$105.36
C-13	0.095	334	58	6.09	28.97	\$1,057.43
N-1	0.042	366	55	6.33	11.97	\$436.80
N-3	0.067	437	69	9.48	24.40	\$890.55
<b>Total Sanlando LS Costs</b>						<b>\$38,819.47</b>
<b>Shadow Hills Master Lift Station</b>						
SH MPS-1	0.538	1407	99	43.79	290.18	\$10,591.70
SH MPS-2	0.054	620	139	27.09	39.42	\$1,438.84
<b>Shadow Hills Master Lift Station Costs</b>						<b>\$12,030.55</b>
<b>Estimated Shadow Hills LS Savings</b>						<b>\$2,000.00</b>
<b>Total Power Costs</b>						<b>\$48,850.02</b>

Since the wastewater facility can be shut down, this options requires no permanent staffing positions. This results in a reduction of one position. Treatment costs for chemicals and power are assumed to be directly offset by the additional treatment costs at the Wekiva WRF. Assuming a 3% annual growth in costs the 20 year extrapolation of O&M costs were calculated. Starting with an operating cost of \$48,850, after 20 years of operation the cumulative cost is \$1.312 million.



## Option 3

Option 3 includes the construction of a surge tank at the Des Pinar facility. This allows for the avoidance of capital improvements at the Shadow Hills facility. As shown in Table 6, the power costs for the Sanlando lift stations increases to \$35,315 per year over the existing condition. There will also be an increased lift station pumping cost for the lift stations which will pump directly to the new surge tank at Des Pinar rather than into the existing wastewater treatment facility. This is estimated as an annual cost of approximately \$7,798. This yields a total annual cost of \$43,313.

Table 6. Option 3 Operational Costs

OPTION 3						
Lift Station	Modeled 24-hour Flow	Modeled Pumping Rate	Modeled Head Condition	Calculated Power		Power Costs (@\$0.10/kW-hr)
	MGD	gpm	feet	kW	kW-hr/Day	\$/year
A-1	0.300	800	30	7.55	47.19	\$1,722.34
A-6	0.060	160	23	1.16	7.25	\$264.63
C-1	0.005	688	42	9.08	1.01	\$36.94
C-4	0.040	272	63	5.39	13.21	\$482.19
C-6	0.140	446	49	6.87	35.94	\$1,311.87
F-2 (pmp 1)	1.272	1147	80	28.85	582.91	\$21,276.03
F-2 (pmp 2)	0.337	830	108	28.18	190.95	\$6,969.72
F-3	0.070	500	26	4.09	9.54	\$348.33
F-1	0.012	741	116	27.02	7.21	\$263.31
C-8	0.008	262	63	5.19	2.49	\$90.90
C-13	0.095	277	62	5.4	30.97	\$1,130.56
N-1	0.042	303	60	5.72	13.06	\$476.77
N-3	0.067	378	73	8.67	25.80	\$941.58
<b>Total Sanlando LS Costs</b>						<b>\$35,315.17</b>
<b>Estimated Shadow Hills LS Increase</b>						<b>\$7,798.00</b>
<b>Total Power Costs</b>						<b>\$43,113.17</b>

Since the wastewater facility can be shut down, this options requires no permanent staffing positions. This results in a reduction of one position. Treatment costs for chemicals and power are assumed to be directly offset by the additional treatment costs at the Wekiva WRF. Assuming a 3% annual growth in costs the 20 year extrapolation of O&M costs was calculated. Starting with an operating cost of \$43,313, after 20 years of operation the cumulative cost is \$1.164 million.

## RECOMMENDATIONS

Several factors were taken into consideration in determining the recommended option. The lowest capital cost option is Option 2 by \$35,000 or 1% less than Option 3. This is within an acceptable margin of error in the estimating process and therefore Options 2 and 3 are essentially considered equal cost options. Option 1, repairing the existing Shadow Hills facility, has the fewest overall impacts but the highest capital costs.

Since Options 2 and 3 are essentially equal cost options, the recommendation analysis is driven by the operational impacts of each option. Option 3 provides a better flow profile to the Wekiva WRF than Option 2 and therefore has a reduced operating cost as well. This allows for more efficient and cost effective operations of the connected lift stations as well as at the Wekiva WRF. Based on the modeling, Option 2 identifies numerous negative impacts to those lift stations that are manifolded into the force main system. This translates into lower operating efficiencies with a greater potential for detrimental impacts to the collection/transmission system as a whole. Overall, considering both options on a 20-year operations basis plus capital costs Option 3 is approximately \$114,000 less than Option 2.

Therefore, the construction of a surge tank at the Des Pinar facility and the decommissioning of the Shadow Hills WWTF are recommended. This project should be undertaken in several phases in order to make the construction simpler and to minimize operational conflicts. Initially, the LS F-2 replacement and the Springs Boulevard force main improvements should be constructed, which are necessary irrespective of the preferred option. The second phase would include the construction of the surge tank and associated facilities at Des Pinar. Existing flow generated from LS A-1 and LS A-6 then would be diverted to the surge tank, then re-pumped to Wekiva WRF. The final stage would be the construction of the force main from the Shadow Hills system to Des Pinar and include any associated lift station improvements in the Shadow Hills and Des Pinar areas to optimize the overall operations. These projects can overlap to reduce the total time necessary to complete the improvements. It is anticipated that if design is initiated in 2016, construction would be complete in 2017 as the timeline would require approximately 18-21 months for completion.

## **Tetra Tech**

### **Shadow Hills Wastewater Improvements Proposal To Utilities Inc.**

#### **Shadow Hills Wastewater Improvements**

Utilities Inc. of Florida (Utilities, Inc.) has requested a proposal for the following Tasks:

- Task 1: Lift Station F-2 Replacement
- Task 2: Springs Blvd Force Main Improvements
- Task 3: Des Pinar Master Pumping Station and Equalization Tank
- Task 4: Shadow Hills Force Main Improvements
- Task 5: Shadow Hills WWTF Decommissioning
- Task 6: Construction Administration Services

Tetra Tech understands that the above projects are anticipated to be divided into five (5) separate construction projects which may overlap in timeframes to keep the overall project moving on schedule. The design and permitting for the projects must be complete by year end 2016 with construction in 2017. Presented below is Tetra Tech's approach and fee for each task.

#### **Task 1: Lift Station F-2 Replacement**

##### **Description of Project**

Lift Station F-2 is located in a median along Sabal Palm Blvd. A replacement lift station, LS F-2A, will be provided on the old 10th green of the abandoned Sabal Palm Golf Course. The existing lift station modifications will include converting the wet well to a manhole including lining the manhole, modifying the lid to a standard ring and cover, removing the valve vault and electrical gear and restoration of the median. The 900 feet of gravity sewer extending to the new pump station site.

The new Lift Station F-2A will be located on an easement on the tenth green of the old golf course. Lift station design shall include a 10-12 foot diameter precast concrete wet well an estimated 25 feet deep, submersible pumps, valve vault, electrical feed and controls, a new generator, access driveway, fencing, landscaping, and the 200 feet of force main to connect to the existing force main. The pump station will process approximately 1.2 MGD on average. Final pump sizing and controls will be performed as part of this scope. The station will be designed with variable frequency drives for better operational control. Design services shall include electrical, surveying and geotechnical investigations as necessary.

This task includes FDEP wastewater and Seminole County site plan and right of way permitting. Permitting application fees shall be included in the scope.

## **Tetra Tech**

### **Shadow Hills Wastewater Improvements Proposal To Utilities Inc.**

#### **Scope of Work**

##### **A. Design**

Design will result in preparation of the bid documents, engineering drawings, and technical specifications for use by Utilities to obtain prices for the Project. This task includes the following services:

1. Attend a kick-off meeting with the Utilities, Inc. to discuss the project and various design considerations. Following the meeting, perform a site visit to review existing facilities and field conditions. Prepare and distribute a summary of the kick-off meeting.
2. Obtain and review existing data from Utilities, Inc. including record drawings of the existing lift stations, utilities, force mains; wastewater flows; and pump data of the connecting lift stations.
3. Survey and Existing Utilities
  - a. Obtain topographic survey of the new and existing lift station sites and route of the replaced sewer and will be completed in accordance with "Minimum Technical Standards" as defined in the Florida Statutes. Benchmarks will be established and referenced to the Seminole County datum and State Plane Coordinates.
  - b. For the area surveyed, the existing utilities will be field located by Tetra Tech's subconsultant. Utilities, Inc. will assist with location of their facilities. Tetra Tech's subconsultant shall determine by excavation the horizontal and vertical location of existing pipes at up the three (3) locations
4. Prepare preliminary site plan, layout of the new influent sewer and determine pump and wetwell sizing for the lift station. Determine electrical, standby power and I&C requirements. Prepare hydraulic model for the force main system. Meet with Utilities, Inc. to discuss the proposed plan, wet well size, and pump selection prior to proceeding with the final design.
5. Geotechnical: Tetra Tech will perform a geotechnical investigation to facilitate design of the proposed lift station and gravity sewer improvements. Perform one (1) Standard Penetration Test (SPT) to a depth of 35 feet at the proposed wet well and an auger boring to 2 feet below the gravity sewer depth. Perform visual classification and required laboratory testing of the soil samples obtained from the borings. Prepare geotechnical engineering report.
6. Prepare drawings and technical specifications to be submitted to Utilities, Inc. for review at 60%, 90% and Final completion levels. Drawings and specifications will be provided at each submittal stage in PDF electronic format. The drawings will be prepared using AutoCAD and the specifications will be prepared using Microsoft WORD. Construction cost estimates will be provided with each submittal.



## **Tetra Tech**

### **Shadow Hills Wastewater Improvements Proposal To Utilities Inc.**

7. The design team will attend a design review meeting at each completion level. Tetra Tech will revise and finalize the design pursuant to Utilities Inc.'s comments.

#### **Preliminary List of Drawings (15 Dwgs)**

##### General

Cover Sheet and Index of Drawings  
General Notes  
Legend and Abbreviations

##### Mechanical

Existing Pump Station Demolition Plan  
Proposed Gravity Sewer Plan and Profile  
Proposed Pump Station Plan and Section  
Mechanical Details (2 Sheets)

##### Structural

General Notes  
Proposed Generator Slab – Plan and Section

##### Electrical and I&C

Abbreviations, Symbols and Notes  
Electrical Site Plan  
Control Panel Wiring Schematic  
Proposed Control Panel Front View and Sub-plate Layout  
Generator Plan and Schematics

- B. Permitting: Tetra Tech will prepare applications and pay application fees for submission of the following permits required for the project:
  1. FDEP Wastewater Permit. The permit for Tasks 1, 2, 3, 4, and 5 may be combined in a single permit.
  2. Seminole County Site and Building Permit for the Lift Station. The Contractor shall pay the final fees for building and specialty permits.
  3. Seminole County Right-of-Way Use Permit.

## **Task 2: Springs Blvd Force Main Improvements**

### **Description of Project**

This task includes design and permitting for approximately 6,500 feet of 12-inch force main from Lift Station C-6 to Lift Station F-2A. The east 3,800 feet of this route is within the right-of-way of Springs Blvd. The west 2,700 feet is located in a 20-foot wide easement currently running through the old Sabal Palm golf course.



**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

**Scope of Work**

**A. Design**

Design will result in preparation of the bid documents, engineering drawings, and technical specifications for use by Utilities, Inc. to obtain prices for the Project. This task includes the following services:

1. Attend a kick-off meeting with the Utilities, Inc. to discuss the project and various design considerations. Perform a site visit to review existing field conditions along the project corridor.
2. Obtain and review existing data from Utilities, Inc. including record drawings of the existing utilities and force mains.
3. Survey and Existing Utilities
  - a. Obtain topographic survey of the route of the new force main. Survey will include the right of way of Springs Boulevard and a existing 20-foot wide easement currently running through the old Sabal Palm golf course. Benchmarks will be established and referenced to the Seminole County datum and State Plane Coordinates.
  - b. For the area surveyed, the existing utilities will be field located and designated by Tetra Tech's subconsultant. Utilities, Inc. will assist with location of their facilities. Tetra Tech's subconsultant shall determine by excavation the horizontal and vertical location of existing pipes at up the four (4) locations, if required.
4. Prepare a preliminary layout of the new force main within the above described corridors. Meet with Utilities, Inc. to discuss the proposed layout prior to proceeding with the final design.
5. Geotechnical: Tetra Tech will perform a geotechnical investigation to facilitate design of the proposed force main improvements. Perform up to four (4) Standard Penetration Test (SPT) to a depth of 20 feet if required for bore and jack or HDD construction and twelve (12) auger boring to 6 feet deep. Perform visual classification and required laboratory testing of the soil samples obtained from the borings. Prepare geotechnical engineering report.
6. Prepare drawings and technical specifications to be submitted to Utilities, Inc. for review at 60%, 90% and Final completion levels. Drawings and specifications will be provided at each submittal stage in PDF electronic format. The drawings will be prepared using AutoCAD and the specifications will be prepared using Microsoft Word. Construction cost estimates will be provided with each submittal.
7. The design team will attend a design review meeting at each completion level. Tetra Tech will revise and finalize the design pursuant to Utilities, Inc.' comments.

**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

**Preliminary List of Drawings (14 Dwgs)**

General

Cover Sheet and Index of Drawings

General Notes

Legend and Abbreviations

Key Map

Pipeline

Plan and Profile of force main within road ROW at 1"=40' horizontal and 1"=4' vertical (5 Sheets).

Plan view for force main in easements at 1"=40' (2 sheets-Double Plan)

Details (3 Sheets)

B. Permitting: Tetra Tech will prepare applications, provide fees and submit for the following permits required for the project:

1. FDEP Wastewater Permit. The permit for Tasks 1, 2, 3, 4, and 5 may be combined in a single permit.
2. Seminole County Right of Way Use Permit.

**Task 3: Des Pinar Master Pumping Station and Equalization Tank**

**Description of Project**

This task includes the design and permitting of an equalization tank, screening facility, master pumping station, electrical improvements, and site piping at the Des Pinar Master Pump Station site. This task will include a preliminary design which will include an operational evaluation of the proposed facility. This shall be used to determine the peak flow rates to the facility and to confirm tank sizing, which has been preliminarily set at 250,000 gallons. This data will also be used to design the hydraulics associated with the proposed mechanical screen, site piping, and the pumping station. The design will need to provide the flexibility to operate at an equalized 24-hour flow rate in order to minimize the impacts on the downstream lift stations connected to the common force main.

The design will include plans and details associated with the proposed equipment as well as the pipeline improvements necessary to divert lift stations A-1 and A-6 to the equalization basin as shown in the included sketch.

Electrical design will be provided including instrumentation, controls, site lighting, and integration of the power needs with the existing on site generator. Design services shall include surveying and geotechnical investigations as necessary.

**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

This task includes FDEP wastewater and Seminole County site plan permitting. Permit application fees shall be included in the scope.

**Scope of Work****A. Design**

Design will result in preparation of the engineering drawings, and technical specifications for use by Utilities, Inc. to obtain prices from contractors for the Project. This task includes the following services:

1. Attend a kick-off meeting with the Utilities, Inc. to discuss the project and various design considerations. Following the meeting, perform a site visit to review existing facilities and field conditions.
2. Obtain and review existing data from Utilities, Inc. including record drawings of the existing facilities at the site, utilities, and force mains; wastewater flow data; and pump data of the connecting lift stations.
3. Survey and Existing Utilities
  - a. Obtain topographic survey of the proposed site and route of the force mains to the headworks of the equalization tank. Benchmarks will be established and referenced to the Seminole County datum and State Plane Coordinates.
  - b. For the area surveyed. Utilities, Inc. will assist with location of their facilities. Tetra Tech's subconsultant shall determine by excavation the horizontal and vertical location of existing pipes at up the two (2) locations.
4. Prepare preliminary site plan, layout of the equalization tank and headworks facilities, and determine equalization tank, pump and wetwell sizing. Determine electrical, standby power and I&C requirements. Prepare hydraulic model for the force main system. Meet with Utilities, Inc. to discuss the proposed layout, facility sizing, and pump and equipment selection prior to proceeding with the final design.
5. Geotechnical: Tetra Tech will perform a geotechnical investigation to facilitate design of the proposed equalization tank, headworks, lift station and force main improvements. Perform two (2) Standard Penetration Test (SPT) to depths of 50 feet and one to a depth of 35 feet at the proposed equalization tank and wet well, respectively, and two (2) auger boring to 6 feet deep for the onsite force mains. Perform visual classification and required laboratory testing of the soil samples obtained from the borings. Prepare geotechnical engineering report.
6. Prepare drawings and technical specifications to be submitted to Utilities, Inc. for review at 60%, 90% and Final completion levels. Drawings and specifications will be provided at each submittal stage in PDF electronic format. The drawings will be prepared using AutoCAD and the specifications will be prepared using Microsoft Word. Construction cost estimates will be provided with each submittal.

## **Tetra Tech**

### **Shadow Hills Wastewater Improvements Proposal To Utilities Inc.**

7. The design team will attend a design review meeting at each completion level. Tetra Tech will revise and finalize the design pursuant to Utilities, Inc.' comments.

#### **Preliminary List of Drawings (21 Dwgs)**

##### General

Cover Sheet and Index of Drawings  
General Notes  
Legend and Abbreviations  
Key Map

##### Mechanical

Existing Site and Demolition Plan (1 Sheet)  
Proposed Site and Yard Piping Plan (1 Sheet)  
Proposed Flow Equalization Tank Plan and Sections (Options Prestressed Concrete or Steel with Cover) (2 Sheets)  
Proposed Master Pump Station Plan and Section (1 Sheet)  
Proposed Mechanical Screening Structure Plan and Sections (2 Sheets) Mechanical Details (4 Sheets)

##### Structural

General Notes  
Proposed Precast Wet Well and Valve Vault – Top Slab – Plan and Sections  
Proposed Flow Equalization Tank – Foundation Slab - Plan and Section (1 Sheet) (Steel Tank Option)  
Proposed Mechanical Screening Structure – Plan and Sections (2 Sheets)  
Miscellaneous Equipment Slabs – Plan and Sections (2 Sheets)

Structural Details (2 sheets)

##### Electrical and I&C

Electrical Abbreviations, Symbols and Notes  
Electrical Site Plan  
Control Panel Wiring Schematic  
Proposed Control Panel Front View and Sub-plate Layout (2 Sheets)

- B. Permitting: Tetra Tech will prepare applications, provide fees and submit for the following permits required for the project:
1. FDEP Wastewater Permit. The permit for Tasks 1, 2, 3, 4, and 5 may be combined in a single permit.
  2. Seminole County Site and Building Permit. The contractor shall pay the final fees for building and specialty permits.

## **Tetra Tech**

### **Shadow Hills Wastewater Improvements Proposal To Utilities Inc.**

#### **Task 4: Shadow Hills Force Main Improvements**

##### **Description of Project**

This task includes the design and permitting of approximately 7,800 feet of 12-inch force main from the existing Shadow Hills Wastewater Treatment Plant (WWTP) to the proposed Des Pinar Master Pumping Station. This task shall include an evaluation of the existing lift stations in the Longwood service area to determine the necessary modifications due to the changed hydraulic conditions. This analysis will correspond with the analysis in Task 3 to provide a better understanding of the impacts on the existing lift stations. An increased head condition is anticipated to be observed at the lift stations which will be pumping directly to the Des Pinar MPS. Pump replacement recommendations will be provided in the engineering evaluation. No specific civil or electrical design to these stations needs to be included in the scope of services. The findings of this analysis will be provided in a technical memorandum for approval by staff prior to design.

The force main will be designed in the right of way for the majority of this route. Surveying and geotechnical investigations will be provided as necessary to complete the design of this project.

This task includes FDEP wastewater and Seminole County right of way permitting. Permitting fees shall be included in the scope..

##### **Scope of Work**

###### **A. Design**

Design will result in preparation of the engineering drawings, and technical specifications for use by Utilities, Inc. to obtain prices for the Project. This task includes the following services:

1. Attend a kick-off meeting with the Utilities, Inc. to discuss the project and various design considerations. Perform a site visit to review existing field conditions along the project corridor.
2. Obtain and review existing data from Utilities, Inc. including record drawings of the existing utilities and force mains; wastewater flow data; and pump data of the connecting lift stations.
3. Survey and Existing Utilities
  - a. Obtain topographic survey of the route of the new force main. Survey will include the right of way of the various roadways between the sites. Benchmarks will be established and referenced to the Seminole County datum and State Plane Coordinates.
  - b. For the area surveyed, the existing utilities will be field located and designated by Tetra Tech's subconsultant. Utilities, Inc. will assist with location of their facilities. Tetra Tech's subconsultant shall determine by excavation the horizontal and vertical location of existing pipes at up the six (6) locations, if required.



## **Tetra Tech**

### **Shadow Hills Wastewater Improvements Proposal To Utilities Inc.**

4. Prepare a preliminary layout of the new force main within the above described corridors. Perform a hydraulic analysis of the force main system and project the changing head conditions and impacts to the connecting lift stations. Provide a preliminary design memorandum summarizing the results of the analysis. Meet with Utilities, Inc. to discuss the memorandum and proposed layout prior to proceeding with the final design.
5. Geotechnical: Tetra Tech will perform a geotechnical investigation to facilitate design of the proposed force main improvements. Perform up to four (4) Standard Penetration Test (SPT) to a depth of 20 feet if required for bore and jack or HDD construction and fourteen (14) auger boring to 6 feet deep. Perform visual classification and required laboratory testing of the soil samples obtained from the borings. Prepare geotechnical engineering report.
6. Prepare drawings and technical specifications to be submitted to Utilities, Inc. for review at 60%, 90% and Final completion levels. Drawings and specifications will be provided at each submittal stage in PDF electronic format. The drawings will be prepared using AutoCAD and the specifications will be prepared using Microsoft Word. Construction cost estimates will be provided with each submittal.
7. The design team will attend a design review meeting at each completion level. Tetra Tech will revise and finalize the design pursuant to Utilities, Inc.' comments.

#### **Preliminary List of Drawings (17 Dwgs)**

##### General

Cover Sheet and Index of Drawings  
General Notes  
Legend and Abbreviations  
Key Map

##### Pipeline

Plan and Profile of force main within road ROW (10 Sheets).  
Details (3 Sheets)

- B. Permitting: Tetra Tech will prepare applications, provide fees and submit for the following permits required for the project:
1. FDEP Wastewater Permit. The permit for Tasks 1, 2, 3, 4, and 5 may be combined in a single permit.
  2. Seminole County Right of Way Use Permit.

**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.****Task 5: Shadow Hills WWTF Decommissioning****Description of Project**

This task includes the permitting and coordination assistance to decommission the Shadow Hills WWTP. This includes a plan and scope of construction services to properly demolish the existing infrastructure and assist with recommendations for the construction activities necessary. This work does not include any surveying, electrical, or geotechnical design or investigations

**Scope of Work****A. Design**

Design will result in preparation of the engineering drawings, and technical specifications for use by Utilities, Inc. to obtain prices for the Project. This task includes the following services:

1. Attend a kick-off meeting with the Utilities, Inc. to discuss the decommissioning of the facility. Following the meeting, perform a site visit to review existing facilities and field conditions.
2. Obtain and review existing data from Utilities, Inc. including record drawings of the existing facilities and utilities at the site.
3. Prepare a general site plan of the facilities to be demolished. The documents will be based on the record drawings only or current aerials. Survey of the existing facilities is not included. Meet with Utilities, Inc. to discuss the proposed demolition plan prior to finalizing the plan for contractor pricing.
4. Prepare drawings and technical specifications to be submitted to Utilities, Inc. for review at 90% and Final completion levels. Drawings and specifications will be provided at each submittal stage in PDF electronic format. The drawings will be prepared using AutoCAD and the specifications will be prepared using Microsoft Word. Construction cost estimates will be provided with each submittal.
5. The design team will attend a design review meeting at each completion level. Tetra Tech will revise and finalize the plan pursuant to Utilities, Inc.' comments.

**Preliminary List of Drawings (4 Dwgs)**General

Cover Sheet and Index of Drawings

General Notes

Legend and Abbreviations

Site

Existing Site and Demolition Plan

Record Drawings as Reference Documents

**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

B. Permitting: Tetra Tech will coordinate the following regarding permits required for the project:

1. FDEP Wastewater Permit. The permit for Tasks 1, 2, 3, 4, and 5 may be combined in a single permit.
2. Seminole County Site and Building Permit should not be required, however, the contractor may need to pull a demolition permit from the building department.

**Task 6A: Construction Administration Services**

**Description of Project**

The projects completed under Tasks 1 through 4 will need to be constructed in multiple phases and are anticipated to require four separate construction contracts, each with its own biddable sets of plans and specifications. Task 5 Shadow Hills WWTF Decommissioning will follow a guidance document prepared to assist with soliciting bids for the demolition of the existing facility.

Task 6 includes construction administration, shop drawing review, RFI responses, support services for building and right of way permitting, part time inspection, start-up and testing assistance, and record drawing preparation and close-out documents.

**Scope of Work**

A. Construction Administration

Upon award of the contract, Tetra Tech will provide construction administration services of the project, Tetra Tech will complete the following tasks:

1. Prepare two (2) copies and one (1) electronic PDF copy of the conformed set of contract documents for Utilities, Inc. and one (1) electronic PDF copy for the recommended contractor.
2. Prepare for and attend a pre-construction conference, take meeting minutes and distribute written minutes to all attendee.
3. Review shop drawings and product submittals for conformance with the Contract Documents. (estimate approximately 70 Submittals for all projects)
4. Provide interpretation or clarification of the design documents when requested, review/evaluate and prepare change orders required for clarification or minor modification of the Contract Documents for the project. (estimate approximately 24 RFIs)
5. Conduct 12 site visits to the construction site to observe construction of the project and attend 12 monthly progress meetings. These site visits will be to observe the progress of the construction and its general conformance to the contract documents. These site visits will be conducted following each progress meeting. Construction of

**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

the project is anticipated to have a duration of 365 calendar days from notice to proceed to final completion.

6. Provide support during the building and right of way permitting by the contractors.
7. Support the contractors' startup and testing of the facilities.
8. Prepare record drawings, incorporating changes made during construction based on record information furnished by the Contractor and provide two (2) sets of drawings, and one (1) compact disk with an electronic version of the documents to the TWA.
9. Assist Utilities Inc. with each project close-out:
  - a. Attend a substantial completion inspection at each site and develop a punch list of items to be corrected by the Contractor.
  - b. Attend the final completion site visit to each site to determine if the punch list items have been completed in accordance with the Contract Documents.
  - c. Prepare and submit regulatory certifications of completion.

**Task 6B: Part-Time Construction Inspection**

**Scope of Work**

Tetra Tech will provide a part-time on-site project representative (RPR) during the construction of the projects. These services will generally include approximately 16 hours per week, however the services maybe adjusted based on the contractors' activities.

1. Tetra Tech will provide a part-time RPR on site while construction is in progress in order to assist with the construction administration services and to provide more continuous observation of the progress and quality of the construction work and to determine in general if work proceeding in accordance with the Contract Documents. The RPR will provide part-time representation of approximately 16 hours per week through the substantial and final completion inspections.
  - a. The duties and responsibilities of the RPR are limited to and described as follows:
    - i. General: The RPR as Tetra Tech's agent at the site, will act as directed by and under the supervision of Tetra Tech, and will confer with Tetra Tech's appropriate professionals regarding actions. The RPR's dealings in matters pertaining to the Contractor's work in progress shall, in general, be with the appropriate professionals, the Contractor and Utilities, Inc. Any dealings with subcontractors shall only be through or with the full knowledge and approval of the Contractor. The RPR shall communicate with Utilities, Inc. with the knowledge of and under the direction of Tetra Tech.
    - ii. Schedules: Review the progress schedule, schedule of shop drawing and sample submittals, and schedule of values prepared by the Contractor and consult with appropriate professionals concerning acceptability

**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

- iii. Conferences and Meetings: Attend meetings with the Contractor, such as preconstruction conferences, progress meetings, job conferences and other project-related meetings.
- iv. Liaison:
  - Serve as liaison working principally through the Contractor's management staff and assist in understanding the intent of the contract documents.
  - Assist as Utilities, Inc.'s liaison when the Contractor's operations affect Utilities, Inc.'s on-site operations.
  - Assist in obtaining from additional details or information, when required for proper execution of the work.
  - Interpretation of Contract Documents: Report to the appropriate professional when clarifications and interpretations of the contract documents are needed and transmit to the Contractor clarifications and interpretations.
- v. Shop Drawings and Samples:
  - Receive samples, which are furnished at the site by Contractor, and notify appropriate professionals of availability of samples for examination and approval.
  - Advise appropriate professionals and the Contractor of the commencement of any portion of the work requiring a shop drawing or sample submittal for which RPR believes that the submittal has not been approved.
- vi. Modifications: Consider and evaluate the Contractor's suggestions for modifications in drawings or specifications and report recommendations to the appropriate professional. Subsequently, transmit to the Contractor in writing decisions.
- vii. Review of Work and Rejection of Defective Work:
  - Conduct on-site observations to assist in determining if the work is in general proceeding in accordance with the contract documents.
  - Report to the appropriate professional and Utilities, Inc. whenever the RPR believes that any part of Contractor's work in progress will not produce a completed project that conforms generally to the contract documents or will prejudice the integrity of the design concept of the completed project as a functioning whole as indicated in the contract documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made.
  - Advise appropriate professionals of work in progress that RPR believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection or approval.



**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

viii. Inspections, Tests, and System Startups:

- Consult with appropriate professionals in advance of scheduled major inspections, tests, and systems startups of important phases of the work.
- Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Utilities, Inc. personnel, and that the Contractor maintains adequate records thereof.
- Observe, record, and report appropriate details relative to the test procedures and systems startups.
- Accompany visiting inspectors representing public or other agencies having jurisdiction over the project, record the results of these inspections.

ix. Records:

- Maintain at the site orderly files for correspondence, reports of job conferences, reproductions of original contract documents including all change orders, field orders, work change directives, addenda, additional drawings issued subsequent to the execution of the contract, clarifications and interpretations of the contract documents, progress reports, approved shop drawing and sample submittals received from and delivered to the Contractor, and other project related documents.
- Prepare a daily report, in electronic format, recording Contractor's hours on the site, daily staffing and equipment on the site, weather conditions, data relative to questions of change orders, field orders, work change directives, or changed conditions, site visitors, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures.
- Record names, addresses and telephone numbers of all subcontractors, and major suppliers of materials and equipment.
- Maintain records for use in preparing project documentation.
- Upon completion of the work, furnish an original set of all project documentation to appropriate design professional and a record copy to Utilities, Inc.
- Maintain daily photo records of construction activities illustrating the progress of the work as well as construction issues encountered.

x. Reports:

- Furnish periodic reports as required of progress of the work and of the Contractor's compliance with the progress schedule and schedule of shop drawing and sample submittals.
- Draft and recommend proposed change orders, work change directives, and field orders. Obtain backup material from the Contractor.
- Furnish copies of all reports generated during construction.
- Report immediately the occurrence of any site accidents, any hazardous environmental conditions, emergencies, or acts of God endangering the

**Shadow Hills Wastewater Improvements Proposal  
To Utilities Inc.**

project, and property damaged by fire or other causes. Contractor is responsible for all safety at the site.

- During the weekly staff meetings, provide a report identifying fees owed to the Utilities, Inc. for additional shop drawing reviews, additional testing resulting from failed results and other items requiring reimbursement to Utilities, Inc.

- xi. **Payment Requests:** Review applications for payment with the Contractor for compliance with the established procedure for their submission and forward with recommendations to Tetra Tech's project manager, noting particularly the relationship of the payment requested to the schedule of values, work completed, and materials and equipment delivered at the site but not incorporated in the work.
- xii. **Certificates, Operation and Maintenance Manuals:** During the course of the project, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the specifications to be assembled and furnished by the Contractor are applicable to the items actually installed and in accordance with the contract documents.
- xiii. **Completion:**
  - Before a certificate of substantial completion is issued, submit to the Contractor a list of observed items requiring completion or correction.
  - Observe whether Contractor has arranged for inspections required by laws and regulations, including but not limited to those to be performed by public agencies having jurisdiction over the work.
  - Participate in a substantial completion and prepare a final list of items to be completed or collected.
  - Observe whether all items on final list have been completed or collected and make recommendations concerning acceptance.
- xiv. **Sampling and Testing**
  - Observe the performance of field testing of soils, materials, coatings, etc. required by the specifications to assist in ascertaining that the type and frequency of tests have been performed and determine the acceptability of the results based on the contract specifications.

## **Tetra Tech**

### **Shadow Hills Wastewater Improvements Proposal To Utilities Inc.**

#### **Compensation**

Tetra Tech's proposed lump sum to provide engineering services for the foregoing described Tasks are presented below:

Task 1: Lift Station F-2 Replacement	\$62,433.01
Task 2: Springs Blvd Force Main Improvements	\$93,697.51
Task 3: Des Pinar Master Pumping Station and Equalization Tank	\$83,039.50
Task 4: Shadow Hills Force Main Improvement	\$128,949.21
Task 5: Shadow Hills WWTF Decommissioning	\$7,322.66
Task 6A:Construction Administration Services	\$70,596.06
Task 6B:Part Time RPR	\$103,928.32
Total	\$549,966.27

Invoices will be submitted monthly based on an estimate of percent of work completed.



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

April 7, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Shadow Hills Wastewater Improvements Proposal

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the reference project. Following review of the Shadow Hills Wastewater Improvements Scope of Services Proposal (Proposal) provided by Utilities, Inc. CPH offers the following scope of services. Task fees are listed in the summary table on page 2 of this proposal. Our scope is committed to meeting the completion of the design work in 2016.

Task 1: Lift Station F-2 Replacement (Lump Sum)

CPH will provide design and permitting services for Task 1 as defined in the Proposal which include electrical, surveying, and geotechnical. Permitting services include permit and fees for FDEP and Seminole County site plan and right of way permits.

Task 2: Springs Blvd Force Main Improvements (Lump Sum)

CPH will provide design and permitting services for Task 2 as defined in the Proposal which include surveying and geotechnical. Permitting services include permit and fees for FDEP and Seminole County right of way permits.

Task 3: Des Pinar Master Pump Station and Equalization Tank (Lump Sum)

CPH will provide design and permitting services for Task 3 as defined in the Proposal which include electrical and controls, surveying and geotechnical. Permitting services include permit and fees for FDEP and Seminole County Site Plans.

Task 4: Shadow Hills Force Main Improvements (Lump Sum)

CPH will provide design and permitting services for Task 4 as defined in the Proposal which include surveying and geotechnical. Permitting services include permit and fees for FDEP and Seminole County right of way permits.

Task 5: Shadow Hills WWTF (Lump Sum)

CPH will provide engineering and permitting services for Task 5 as defined in the Proposal. Though not stated in Task 5 CPH has included a \$500 permit fee for Seminole County.

Task 6: Construction Administration Services (Lump Sum)

CPH will provide engineering services for Task 6 as defined in the Proposal.



Tasks	Lump Sum Fee
Task 1	\$32,934.00
Task 2	\$35,912.00
Task 3	\$73,830.00
Task 4	\$41,905.00
Task 5	\$5,850.00
Task 6	\$49,370.00
Total	\$239,801.00

Surveying has been included in all tasks as noted per the Proposal. Should survey not be required to the extent defined in the attached proposals we will adjust surveying services to meet the minimum permitting agency requirements. Please see the attached survey and pricing per Task. Also attached included a scope of services for electrical and geotechnical services.

Environmental services are not included in this scope. Additional survey services such as easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Locates will be called for on the plans for the contractor to field verify.

#### **Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Preparing to serve as an expert witness for the Owner in any protest, litigation, or other proceeding involving the project.

Additional engineering services required by revisions to regulations (after the date of this contract) as applicable to the Florida Department of Environmental Protection, the St. Johns River Water Management District, or other regulatory agency requirements.

#### **Payment**

The engineering design fee for the services, described herein is estimated to be \$239,801, including out of pocket expenses.

Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

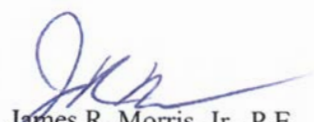
If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.





If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

  
James R. Morris, Jr., P.E.  
Sr. Project Manager

**ACCEPTED BY:**  
Lake Utility Services, Inc.

\_\_\_\_\_

**Date:** \_\_\_\_\_

**April 4, 2016**

**Utilities Inc.**

**Task 1: Lift Station F-2 Replacement**

**Right-of-Way Locations**

Existing plats, F.D.O.T. Right-of-Way Maps and land records containing the project right-of-ways shall be obtained and reviewed. Sufficient monumentation will be recovered, field located and verified in order to calculate and determine the right-of-way lines through the project area, as well as any platted easements adjacent to the right-of-ways. Found or set monuments for right-of-ways, easements and lot lines shall be adequately depicted on the Topographic Survey. Sufficient dimensions will be shown to support the location of the right-of-way lines relative to the survey control baselines. Reference point details will be included in the CADD files provided.

**Sketch and Description**

Provide a Sketch and Description of the Proposed Easement for the new Lift Station.

**Topographic Survey**

Provide a Topographic Survey of the full right-of-way of a portion of Sabal Palm Blvd. for 850± linear feet from the Existing LS #F2 to the Proposed LS #F2A and provide topographic data on the Existing LS #F2. Provide (see area depicted in red on the attached for limits). Locate visible above-ground improvements and visible above-ground utilities from right of way to right of way within scope. Topographic data to be collected at 300' cross-sections and at grade breaks.

**Survey Control and Baselines**

The Surveyor shall prepare a survey control drawing for the baseline horizontal and vertical controls. Tie Seminole County GIS control points to the baseline established along the route. The baseline shall be referenced to permanent monumentation located outside the limits of construction at the beginning and end of the route, at angle points, and at intervals not to exceed 1200 feet. A table shall provide state plane coordinates with elevations (x, y, z) at all changes in baseline direction. Baseline turning points shall be labeled on the design drawings to identify these points referenced in the survey control drawing table. The table shall include the type of monument set. Iron pins are required when setting the baseline in easements or rights-of-way without pavement. The survey control drawing shall state what horizontal and vertical datum was used.



**CPH SURVEY FEE: \$3,685.00**



486



**April 4, 2016**

**Utilities Inc.**

**Task 3: Des Pinar Master Pumping Station and Equalization Tank**

**Boundary Survey**

Provide a Boundary Survey of Lot 19, DES PINAR ACRES, as recorded in Plat Book 12, Page 52 of the Public Records of Seminole County, Florida, (Parcel Identification Numbers 35-20-29-501-0000-0190, 35-20-29-501-0000-019A and 35-20-29-501-0000-019B) as per Seminole County Property Appraiser (containing 25.8± acres).

**Topographic Survey**

Provide a Topographic Survey to include portions of Parcel Identification Numbers 35-20-29-501-0000-0190, 35-20-29-501-0000-019A and 35-20-29-501-0000-019B as per Seminole County Property Appraiser (containing 9.0± acres, see area depicted in red on the attached for limits). Locate visible above-ground improvements and visible above-ground utilities within scope. Topographic data will be collected at a 100 foot grid.

**Survey Control and Baselines**

The Surveyor shall prepare a survey control drawing for the baseline horizontal and vertical controls. Tie Seminole County GIS control points to the baseline established along the route. The baseline shall be referenced to permanent monumentation located outside the limits of construction at the beginning and end of the route, at angle points, and at intervals not to exceed 1200 feet. A table shall provide state plane coordinates with elevations (x, y, z) at all changes in baseline direction. Baseline turning points shall be labeled on the design drawings to identify these points referenced in the survey control drawing table. The table shall include the type of monument set. Iron pins are required when setting the baseline in easements or rights-of-way without pavement. The survey control drawing shall state what horizontal and vertical datum was used.



**CPH SURVEY FEE: \$7,520.00**

J:\Z6582\PROPOSALS\UTIL INC\SHADOWHILLS\TASK 3.DOCX

**April 4, 2016**

**Utilities Inc.**

**Task 4: Shadow Hills Force Main Improvements**

**Right-of-Way Locations**

Existing plats, F.D.O.T. Right-of-Way Maps and land records containing the project right-of-ways shall be obtained and reviewed. Sufficient monumentation will be recovered, field located and verified in order to calculate and determine the right-of-way lines through the project area, as well as any platted easements adjacent to the right-of-ways. Found or set monuments for right-of-ways, easements and lot lines shall be adequately depicted on the Topographic Survey. Sufficient dimensions will be shown to support the location of the right-of-way lines relative to the survey control baselines. Reference point details will be included in the CADD files provided.

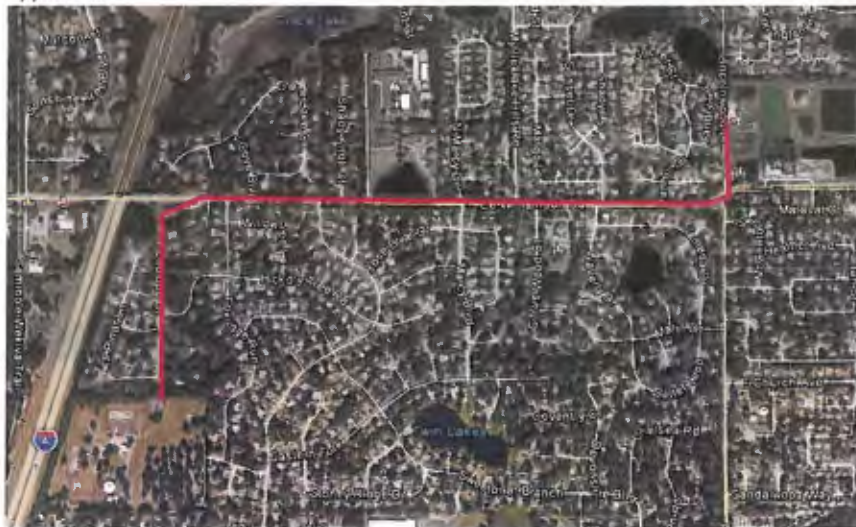
**Topographic Survey**

Provide a Topographic Survey for 7,800± linear feet of right-of-way, from the existing Shadow Hills wastewater facility to the proposed Des Pinar Master Pumping Station (see area depicted in red on the attached for limits). Locate visible above-ground improvements and visible above-ground utilities from right of way to right of way within scope. Topographic data to be collected at 300' cross-sections and at grade breaks.

**Survey Control and Baselines**

The Surveyor shall prepare a survey control drawing for the baseline horizontal and vertical controls. Tie Seminole County GIS control points to the baseline established along the route. The baseline shall be referenced to permanent monumentation located outside the limits of construction at the beginning and end of the route, at angle points, and at intervals not to exceed 1200 feet. A table shall provide state plane coordinates with elevations (x, y, z) at all changes in baseline direction. Baseline turning points shall be labeled on the design drawings to identify these points referenced in the survey control drawing table. The table shall include the type of monument set. Iron pins are required when setting the baseline in easements or rights-of-way without pavement. The survey control drawing shall state what horizontal and vertical datum was used.

*Approximate Route of Shadow Hills FM*



**CPH SURVEY FEE: \$14,575.00**





April 7<sup>th</sup> 2016

Mr. Jay Morris, P.E.  
CPH, Corp, Inc.  
1117 East Robinson Street  
Orlando, FL 32801

Re: Shadow Hills Wastewater Improvements Scope of Services  
Utilities Inc of Florida

Dear Mr. Morris:

We are pleased to submit our proposal for engineering design services for the above project. The following serves to provide an overview of the engineering services Bailey Engineering Consultants, Inc. (BEC) intends to furnish on the above referenced project to CPH, Corp, Inc. (CPH). This letter contract represents an overview of the work and provides the agreed upon lump sum fee amount. Our services shall include completed drawings for the work, covering all phases of our design in an AutoCAD format. Our design work scope shall include the following as outlined below:

**Design Services:**

**Task 1** - Electrical and instrumentation engineering design associated with the Lift Station F2 Replacement:

**Task 3** – Des Pinar Master Pump Station and Equalization Tank.

For both Tasks BEC shall provide the following services:

1. Visit each site and observe existing conditions.
2. Design new electrical building to serve the new process equipment. This includes reuse of the existing generator and 800 amp ATS.
3. Design new PLC based controls utilizing the Motorola ACE processor. Integrate this facility into the Utilities' existing SCADA system.
4. BEC shall assist CPH during the permitting process and answer questions resulting from building department review.

10620 GRIFFIN ROAD, SUITE 202 • COOPER CITY, FL • 33328  
PHONE: 954-448-7930 • FAX: 954-713-9959

5. BEC shall provide interpretation of construction contract documents and provide written responses to questions from bidders requiring clarification during the bidding period. Prepare and issue addenda to the construction contract documents when required.

Deliverables:

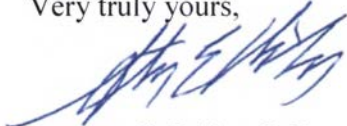
- a. 100% Drawings, specifications and opinion of costs – One (1) hard copy and one (1) set of PDF files.
- b. All reproduction shall be completed by others.

SUPPLEMENTAL SERVICES - Any work requested by County that is not included in one of the items listed in any other phase will be classified as supplemental services.

Our scope of services shall include the design services as outlined above. Our scope of work shall be as outlined above and shall be performed on a lump sum basis, billed at monthly intervals. Travel to and from the site and other direct costs are included in the overhead rate and will not be billed as a separate line item. Our fee for this work shall be as follows:

Task 1 - plans 100% complete	\$	6,500.00
Task 3.1 - when Plans are 60% Complete	\$	13,200.00
Task 3.2 – When Plans are 100% complete	\$	8,800.00
Total Tasks 1 and 3		28,500.00

Very truly yours,



Stephen E. Bailey, P.E.

ACCEPTED \_\_\_\_\_ DATE \_\_\_\_\_

CPH-16-008D



April 7<sup>th</sup>, 2016

Mr. Jay Morris, P.E.  
CPH Corp.  
500 West Fulton Street  
Sanford, Florida 32771

Re: Shadow Hills Wastewater Improvements Scope of Services  
Utilities Inc of Florida

Dear Mr. Morris:

We are pleased to submit our revised proposal for general services during construction for the above project. Our services shall be for the electrical engineering services work defined under Task 1 and Task 3 of the document prepared by Utilities Inc. of Florida. The following defines our scope of work:

Task 1 - Shop Drawing Review

Review and approve (or take other appropriate action in respect of) Shop Drawings and samples, the results of tests and inspections and other data which each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents (but such review and approval or other action shall not exceed to means, methods, sequences, techniques or procedures of construction or to safety precautions and programs incident thereto); and receive and review (for general content as required by the Specifications) maintenance and operating schedules and instruction, guarantees, bonds and certificates of inspection which are to be assembled by Contractor(s) in accordance with the Contract Documents.

Task 2 - Issue Clarifications

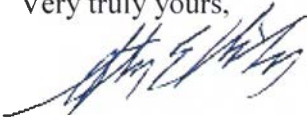
Issue all instructions of OWNER to Contractor(s); issue necessary interpretations and clarifications of the Contract Documents; have authority, as OWNER's representative to require special inspection or testing of the work; act as initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder, and make decisions on all claims of OWNER and Contractor(s) relating to the acceptability of the work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the work. The ENGINEER shall render all interpretations or decisions in good faith and in accordance with the requirements of the Contract Documents.

Task 3 – Site Visits

Make visits to the site at periods appropriate to the various stages of construction to observe, as an experienced and qualified professional, the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the Contract Documents. Prepare trip reports to document observations made during these inspections. ENGINEER shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by Contractor(s) or the safety precautions and programs incident to the work of Contractor(s). ENGINEER's efforts will be directed toward providing a greater degree of confidence for OWNER that the completed work of Contractor(s) will conform to the Contract Drawings, but ENGINEER shall not be responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Drawings. During such visits and on the basis of on-site observations, ENGINEER shall keep OWNER informed of the progress of the work, shall endeavor to guard OWNER against defects and deficiencies in such work and may disapprove or reject work failing to conform to the Contract Documents.

The above work will be performed on a lump sum basis of \$19,500.00. Our fee will be billed at monthly intervals. Travel to and from the site and other direct costs are included in the overhead rate and will not be billed as a separate line item.

Very truly yours,



Stephen E. Bailey, P.E.

ACCEPTED \_\_\_\_\_ DATE \_\_\_\_\_

CPH-16-009G

**Shadow Hills Wastewater Improvements Scope of Services  
Utilities Inc of Florida  
General Services**

**TASK 1 - SHOP DRAWING REVIEW**

<b>Task</b>	<b>Man-Hours</b>	<b>Billing Rate/Hour</b>	<b>Cost</b>
Principal	12	\$ 180.00	\$ 2,160.00
Instrumentation Engineer	17	\$ 130.00	\$ 2,210.00
Field Supervisor	20	\$ 105.00	\$ 2,100.00
Subtotal			\$ 6,470.00

**TASK 2 - ISSUE CLARIFICATIONS**

<b>Task</b>	<b>Man-Hours</b>	<b>Billing Rate/Hour</b>	<b>Cost</b>
Principal	20	\$ 180.00	\$ 3,600.00
Instrumentation Engineer	10	\$ 130.00	\$ 1,300.00
Field Supervisor	10	\$ 105.00	\$ 1,050.00
Subtotal			\$ 5,950.00

**TASK 3 -SITE VISITS AND MEETINGS**

<b>Task</b>	<b>Man-Hours</b>	<b>Billing Rate/Hour</b>	<b>Cost</b>
Principal	16	\$ 180.00	\$ 2,880.00
Field Supervisor	40	\$ 105.00	\$ 4,200.00
Subtotal			\$ 7,080.00

Task 1 - Shop Drawing Review	\$ 6,470.00
Task 2 - Issue Clarifications	\$ 5,950.00
Task 3 - Site Visits	\$ 7,080.00
<b>Total</b>	<b>\$ 19,500.00</b>



April 7, 2016

**CPH, Inc.**  
1117 East Robinson Street  
Orlando, Florida 32801

Attention: Mr. Jay Morris, P.E.  
Vice President/Associate

RE: Proposal for Geotechnical Services  
Shadow Hills Wastewater Improvements  
Longwood, Seminole County, Florida  
PSI Proposal No.: 0757-177332

Dear Mr. Morris:

Professional Service Industries, Inc. (PSI) is pleased to submit the following proposal for performance of multiple subsurface explorations to assist with the design of the Shadow Hills Wastewater Improvements. The Shadow Hills Wastewater Improvements consist of four (4) individual tasks. A geotechnical exploration will be completed for each task to provide geotechnical recommendations to assist with the design and construction of the proposed wastewater improvements. In general, the improvements include new sections of force main and gravity sewer, a lift station, a pumping station and an equalization tank. Presented herein is the requested scope of work, time schedule to complete the work and cost estimate for our services.

### **PROJECT INFORMATION**

There are 4 Tasks associated with the Shadow Hills Wastewater Improvements. The individual tasks and a description of each task are summarized below.

#### **Task 1 – Lift Station F2 Replacement:**

Lift Station F2A will be installed northwest of the intersection of Sabal Palm Drive and Summit Ridge Road in Longwood, Florida. The new lift station will replace existing Lift Station F2. The existing lift station is to be converted to a manhole. The proposed location is an undeveloped open area covered with grass that was formerly the tenth green of the Sabal Palm Golf Course. The new lift station will be approximately 10 to 12 feet in diameter and approximately 25 feet deep. Approximately 850 feet of gravity sewer will be installed with the installation of Lift Station F2A. The new gravity sewer pipeline will be installed with approximately 3 feet of cover over the top of the pipeline.

**Task 2 – Springs Boulevard Force Main:**

Approximately 6,500 lineal feet of new 12-inch diameter force main will be installed from existing Lift Station C6 to the new Lift Station F2A. Approximately 3,800 of the alignment is located within the Springs Boulevard right-of-way while the remaining 2,700 lineal feet of pipeline is located in a 20-foot-wide easement running through the Sabal Palm Golf Course. The force main will be installed with a minimum cover of 3 feet over the top of the pipe.

**Task 3 – Des Pinar Master Pump Station and Equalization Tank:**

Des Pinar is an existing wastewater treatment facility located West of Shadyvale Court and East of Interstate 4 in Sanlando Springs. The proposed equalization tank has a preliminary volume estimated at 250,000 gallons. Based on the RFP, the new tank will be located West of the existing tanks where two ponds are currently located. A maximum tank height of 30 feet had been assumed for this proposal. Approximately 500 feet of force main will also be constructed to connect the new equalization tank to Lift Station F2A. The new force main will be installed with a minimum cover of 3 feet below the existing grade.

**Task 4 – Shadow Hills Force Main:**

Approximately 7,800 linear feet of 12-inch diameter force main will be installed to connect the existing Shadow Hills WWTF to the proposed Des Pinar Master Pumping Station. The force main alignment starts on the north side of the Des Pinar Wastewater Facility and follows Penelope Drive to the north. The alignment turns east at EE Williamson Road and follows EE Williamson Road to Lincoln Wood Lane. The force main then turns north and connects to the existing Shadow Hills WWTF approximately 500 feet north of the intersection of EE Williams Road and Lincoln Wood Lane. The new force main will be installed with a minimum cover of 3 feet below the existing grade.

The listed assumptions have been used for the purpose of preparing this proposal. Adjustments to the scope of services may be necessary if the planned improvements differ from the noted assumptions.

**Scope of Geotechnical Services**

The purpose of PSI's geotechnical study is to obtain information on the general subsurface soil and groundwater conditions for each of the proposed wastewater improvements previously discussed.

The following services will be provided in order to achieve the preceding objectives:

1. Review available published geologic and topographic information. This published information will be obtained from the appropriate quadrangle map published by the United States Geological Survey (USGS) and the "Soil Survey of Seminole County, Florida" published by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS).

2. PSI will perform the following scope of work for Tasks 1 through 4.

Task 1 – Lift Station F2 Replacement: One (1) Standard Penetration Test (SPT) boring to a depth of 35 feet below the existing grade at the proposed lift station location and two (2) manual auger borings to a depth of 7 feet below the existing grade to assist with design of the new gravity sewer. The results of these borings will provide soil and groundwater data that will be used to evaluate soil bearing pressure and design of the lift station below grade walls as well as for support of the proposed gravity sewer.

Task 2 – Springs Boulevard Force Main: Ten (10) manual auger borings to a depth of 7 feet below the existing grade along the proposed force main alignment. The results of these borings will provide soil and groundwater data that will be used to evaluate soil suitability for support and backfill of the proposed gravity sewer.

Task 3 – Des Pinar Master Pump Station and Equalization Tank: Two (2) Standard Penetration Test (SPT) borings to depths of 60 and 100 feet below the existing grade at the proposed equalization tank and pump station location. The deeper boring will be performed at the proposed center of the tank while the shallower boring will be performed at the outer edge of the tank between the tank and master pump station. The results of these borings will provide soil and groundwater data that will be used to evaluate soil bearing pressure and to estimate total and differential settlements for the storage tank. Two (2) manual auger borings will also be performed along the proposed force main extending west from the new equalization tank.

Task 4 – Shadow Hills Force Main: Fifteen (15) manual auger borings to a depth of 7 feet below the existing grade along the proposed force main alignment. The results of these borings will provide soil and groundwater data that will be used to evaluate soil suitability for support and backfill of the proposed gravity sewer.

3. Visually classify and stratify representative soil samples in the laboratory using the Unified Soil Classification System. Conduct a limited laboratory testing program, if necessary. Identify soil conditions at each boring location and form an opinion of the site soil stratigraphy.
4. Collect groundwater level measurements in the boreholes and estimate normal seasonal high groundwater levels.
5. The results of the field exploration and laboratory tests will be used in the engineering analysis and in the formulation of PSI's geotechnical recommendations, including a discussion on estimated total and differential settlements for the proposed storage tank. Earth pressure coefficients will be provided for design of the below grade walls for Lift Station F2A. Soil suitability for support of the proposed pipelines and for use as backfill will be discussed. Recommendations for site preparation for support of the proposed structures and

pipelines will also be included. The results of the subsurface exploration for each task, including the recommendations and data on which they are based, will be presented in a written report supervised by a Professional Geotechnical Engineer licensed in the State of Florida. A total of 4 reports are anticipated.

### Schedule

We are in a position to start work on the assignment immediately upon receipt of authorization to proceed. The first tasks will be to coordinate obtaining utility clearances for the borings through Sunshine State One Call of Florida and through the WWTF operations personnel for each task. If private utilities are not located by others, we can coordinate a private utility location service for our borings for an additional fee of \$900.00 per site. The estimate for private utility locates only applies to boring locations within the Des Pinar or Shadow Hills water treatment facilities. Utilities to be located within private easements will be priced on a case by case basis.

Once utilities have been cleared/located, we anticipate 1 to 2 days to complete the drilling work for each task. Engineering and laboratory testing will be initiated thereafter, requiring a further 10 work days to complete. From notice to proceed through submittal of the reports will require on the order of 2 to 3 weeks for each task. Verbal recommendations can be provided prior to issuance of our final report.

### Service Fee

PSI has provided a fee estimate based on each task being authorized separately as stated in the RFP. This proposal is based on the assumption that boring locations are accessible to our truck or ATV mounted drilling equipment. It is proposed the fee for performance of the above-outlined services be determined on a unit price basis and the work be performed pursuant to the Professional Services Agreement between PSI and CPH. On the basis of the estimated quantities and the proposed scope of work, we propose the following fee estimate for each of the tasks.

<u>Task 1 – Lift Station F2 Replacement:</u>	\$2,549.25
<u>Task 2 – Springs Boulevard Force Main:</u>	\$2,377.25
<u>Task 3 – Des Pinar Master Pump Station and Equalization Tank:</u>	\$5,383.50
<u>Task 4 – Shadow Hills Force Main:</u>	\$2,892.25

Attached are copies of our Schedule of Services and Fees for Task 1 through 4.

**Closure**

We appreciate the opportunity to offer our services to you and look forward to working with you. If this proposal is acceptable, please sign below as notice to proceed and return one (1) copy of this proposal intact to our office. Should you have any questions in regard to this proposal, please do not hesitate to contact this office.

Respectfully submitted,

**PROFESSIONAL SERVICE INDUSTRIES, INC.**

Eric W. Nagowski, E.I.  
Project Engineer

Robert A. Trompke, P.E.  
Principal Consultant/Department Manager

0757-177332 DRAFT (Shadow Hills)

cc: Mr. Johnathon Grant – PSI, NCG

**Attachments**

- Schedules of Services and Fees – Tasks 1 through 4

**AGREED TO THIS \_\_\_\_\_ DAY OF \_\_\_\_\_,**

**BY (Please Print): \_\_\_\_\_**

**TITLE: \_\_\_\_\_**

**COMPANY: \_\_\_\_\_**

**SIGNATURE: \_\_\_\_\_**



**TASK 1**

**SCHEDULE OF SERVICES AND FEES**

**Geotechnical Engineering Services  
Lift Station F2 Replacement  
Longwood, Seminole County, Florida**

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Total Cost</u>
<b><u>I. FIELD INVESTIGATION</u></b>				
A. Mobilization of Truck-Mounted Equipment	1	Each	\$ 350.00	\$ 350.00
B. Site Reconnaissance / Utility Coordination				
Senior Technician	1	Hour	68.00	68.00
C. Standard Penetration Test (SPT) Borings (1 at 35 feet)				
0 to 50 Feet Deep	35	L.F.	12.50	437.50
D. Grout Seal Boreholes				
0 to 50 Feet Deep	35	L.F.	3.50	122.50
E. Auger Borings				
0 to 50 Feet Deep	14	L.F.	9.00	<u>126.00</u>
<b>Subtotal Field Investigation</b>				<b>\$ 1,104.00</b>
<b><u>II. LABORATORY TESTING</u></b>				
A. Visual Exam/Stratify (ASTM D-2488)				
Senior Technician	0.5	Hour	\$ 68.00	\$ 34.00
B. Grain Size Analysis				
Single Sieve (FM 1-T 88)	2	Each	40.00	<u>80.00</u>
<b>Subtotal Laboratory Testing</b>				<b>\$ 114.00</b>

**TASK 1- Continued**

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Total Cost</u>
<b><u>III. ENGINEERING SERVICES</u></b>				
A. Senior Project Manager	1	Hours	\$ 173.00	\$ 173.00
B. Project Manager	8	Hours	110.00	880.00
C. CADD Operator	3	Hours	73.50	220.50
D. Secretarial	1	Hours	57.75	<u>57.75</u>
<b>Subtotal Engineering Services</b>				<b>\$ 1,331.25</b>
<b>TOTAL ALL SERVICES</b>				<b>\$ 2,549.25</b>

**TASK 2**

**SCHEDULE OF SERVICES AND FEES**

**Geotechnical Engineering Services  
Springs Boulevard Force Main  
Longwood, Seminole County, Florida**

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Total Cost</u>
<b><u>I. FIELD INVESTIGATION</u></b>				
A. Site Reconnaissance / Utility Coordination				
Senior Technician	2	Hours	\$ 68.00	\$ 136.00
B. Soil Survey Crew	1	Day	682.00	<u>682.00</u>
<b>Subtotal Field Investigation</b>				<b>\$ 818.00</b>
<b><u>II. LABORATORY TESTING</u></b>				
A. Visual Exam/Stratify (ASTM D-2488)				
Senior Technician	1	Hour	\$ 68.00	\$ 68.00
B. Grain Size Analysis				
Single Sieve (FM 1-T 88)	4	Each	40.00	<u>160.00</u>
<b>Subtotal Laboratory Testing</b>				<b>\$ 228.00</b>
<b><u>III. ENGINEERING SERVICES</u></b>				
A. Senior Project Manager	1	Hours	\$ 173.00	\$ 173.00
B. Project Manager	8	Hours	110.00	880.00
C. CADD Operator	3	Hours	73.50	220.50
D. Secretarial	1	Hours	57.75	<u>57.75</u>
<b>Subtotal Engineering Services</b>				<b>\$ 1,331.25</b>
<b>TOTAL ALL SERVICES</b>				<b>\$ 2,377.25</b>

**TASK 3**

**SCHEDULE OF SERVICES AND FEES**

**Geotechnical Engineering Services  
Des Pinar Master Pump Station and Equalization Tank  
Longwood, Seminole County, Florida**

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Total Cost</u>
<b><u>I. FIELD INVESTIGATION</u></b>				
A. Mobilization of ATV-Mounted Equipment	1	Each	\$ 450.00	\$ 450.00
B. Site Reconnaissance / Utility Coordination				
Senior Technician	2	Hours	68.00	136.00
C. Standard Penetration Test (SPT) Borings (1 at 100', 1 at 60')				
0 to 50 Feet Deep	100	L.F.	12.50	1,250.00
50 to 100 Feet Deep	60	L.F.	14.60	876.00
D. Grout Seal Boreholes				
0 to 50 Feet Deep	100	L.F.	3.50	350.00
50 to 100 Feet Deep	60	L.F.	4.50	<u>270.00</u>
<b>Subtotal Field Investigation</b>				<b>\$ 3,332.00</b>
<b><u>II. LABORATORY TESTING</u></b>				
A. Visual Exam/Stratify (ASTM D-2488)				
Senior Technician	1	Hour	\$ 68.00	\$ 68.00
B. Grain Size Analysis				
Single Sieve (FM 1-T 88)	4	Each	40.00	160.00
C. Atterberg Limit	2	Each	94.00	<u>188.00</u>
<b>Subtotal Laboratory Testing</b>				<b>\$ 416.00</b>

**TASK 3 - Continued**

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Total Cost</u>
<b><u>III. ENGINEERING SERVICES</u></b>				
A. Senior Project Manager	2	Hours	\$ 173.00	\$ 346.00
B. Project Manager	8	Hours	110.00	880.00
C. CADD Operator	4	Hours	73.50	294.00
D. Secretarial	2	Hours	57.75	<u>115.50</u>
<b>Subtotal Engineering Services</b>				<b>\$ 1,635.50</b>
<b>TOTAL ALL SERVICES</b>				<b>\$ 5,383.50</b>



**TASK 4**

**SCHEDULE OF SERVICES AND FEES**

**Geotechnical Engineering Services  
Shadow Hills Force Main  
Longwood, Seminole County, Florida**

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Total Cost</u>
<b><u>I. FIELD INVESTIGATION</u></b>				
A. Site Reconnaissance / Utility Coordination				
Senior Technician	2	Hours	\$ 68.00	\$ 136.00
B. Soil Survey Crew	1.5	Day	682.00	<u>1,023.00</u>
<b>Subtotal Field Investigation</b>				<b>\$ 1,159.00</b>
<b><u>II. LABORATORY TESTING</u></b>				
A. Visual Exam/Stratify (ASTM D-2488)				
Senior Technician	1	Hour	\$ 68.00	\$ 68.00
B. Grain Size Analysis				
Single Sieve (FM 1-T 88)	6	Each	40.00	240.00
C. Atterberg Limit	1	Each	94.00	<u>\$ 94.00</u>
<b>Subtotal Laboratory Testing</b>				<b>\$ 402.00</b>
<b><u>III. ENGINEERING SERVICES</u></b>				
A. Senior Project Manager	1	Hours	\$ 173.00	\$ 173.00
B. Project Manager	8	Hours	110.00	880.00
C. CADD Operator	3	Hours	73.50	220.50
D. Secretarial	1	Hours	57.75	<u>57.75</u>
<b>Subtotal Engineering Services</b>				<b>\$ 1,331.25</b>
<b>TOTAL ALL SERVICES</b>				<b>\$ 2,892.25</b>

### **Shadow Hills Wastewater Improvements Scope of Services**

The following scope of services includes 6 tasks as described below. The project is anticipated to be divided into 5 separate construction projects which may necessarily overlap in timeframes to keep the project moving on schedule. The design and permitting for the projects must be complete by year end 2016 with construction services in 2017. Proposers shall submit an approach and fee for each task.

Proposals are due 2:00pm, April 8, 2016 to Bryan Gongre, Regional Manager and can be emailed to [bkgongre@uiwater.com](mailto:bkgongre@uiwater.com) or delivered to:

Utilities Inc. of Florida  
Attn: Bryan Gongre, Regional Manager  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

Please send any questions to Bryan Gongre via email no later than April 1, 2016.

### **Task 1: Lift Station F-2 Replacement**

Lift Station F-2 is located in a median along Sabal Palm Blvd. A replacement lift station (LS F-2A) will be provided on the old 10<sup>th</sup> green of the Sabal Palm golf course. This is approximately 850 feet away from the existing lift station. The existing lift station modifications will include converting the wet well to a standard manhole including lining the manhole, modifying the lid to a standard ring and cover, removing the valve vault and electrical gear and restoration of the median. The gravity collection system will then need to be extended to the new site.

The new Lift station F-2A will be located on an easement on the tenth green of the old golf course. Lift station design shall include a 10-12 foot diameter wet well an estimated 25 feet deep, submersible pumps, valve vault, electrical feed and controls, a new generator, access driveway, fencing, landscaping, and the associated force main to connect to the existing force main. The pump station will process approximately 1.2 MGD on average. Final pump sizing and controls will be performed as part of this scope. The station will be designed with variable frequency drives for better operational control. Design services shall include electrical, surveying and geotechnical investigations as necessary.

This task includes FDEP wastewater and Seminole County site plan and right of way permitting. Permitting fees shall be included in the scope.

### **Anticipated LS F2A Improvements**

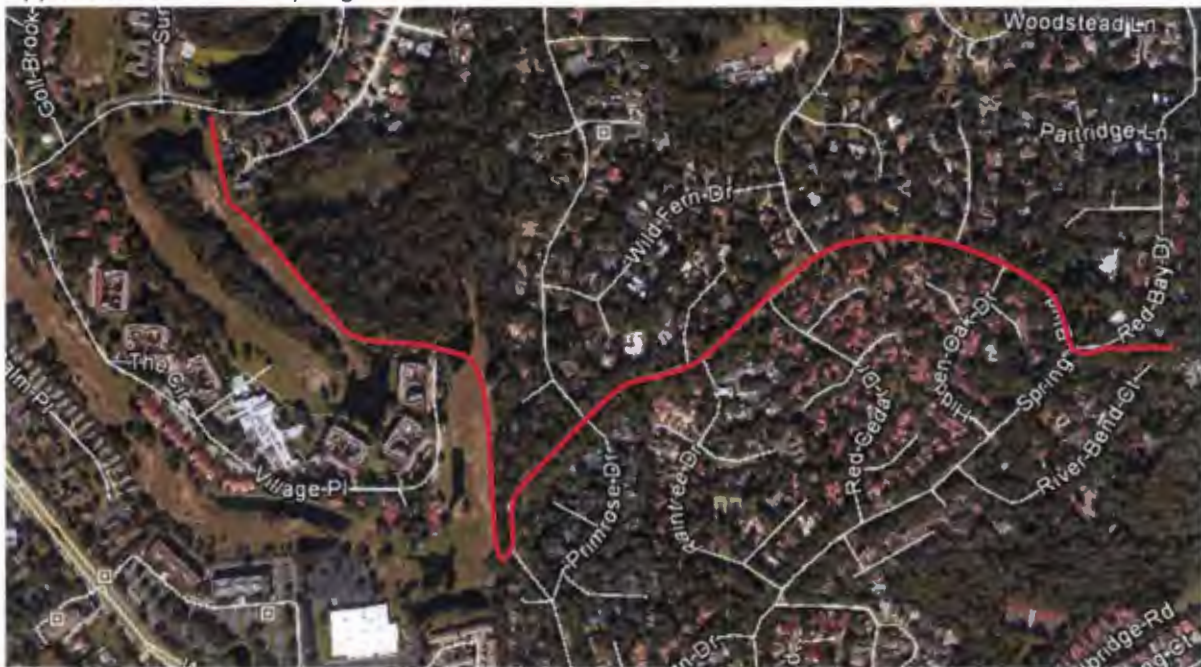


## ***Task 2: Springs Blvd Force Main Improvements***

This task includes approximately 6,500 linear feet of 12-inch force main to be designed from Lift Station C-6 to Lift Station F-2A. The east 3,800 linear feet of this route is within the right of way of Springs Blvd. The west 2,700 feet is located in a 20-foot wide easement currently running through the old Sabal Palm golf course. Design services shall include surveying and geotechnical investigations as necessary.

This task includes FDEP wastewater and Seminole County right of way permitting. Permitting fees shall be included in the scope.

*Approximate route of Springs Blvd FM*





### ***Task 3: Des Pinar Master Pumping Station and Equalization Tank***

This task includes the design of an equalization tank, screening facility, master pumping station, electrical improvements, and site piping at the Des Pinar site. This task will include a preliminary design which will include an operational evaluation of the proposed facility. This shall be used to determine the peak flow rates to the facility and to confirm tank sizing, which has been preliminarily set at 250,000 gallons. This data will also be used to design the hydraulics associated with the proposed mechanical screen, site piping, and the pumping station. The design will need to provide the flexibility to operate at an equalized 24-hour flow rate in order to minimize the impacts on the downstream lift stations connected to the common force main.

The design will include plans and details associated with the proposed equipment as well as the pipeline improvements necessary to divert lift stations A-1 and A-6 to the equalization basin as shown in the included sketch.

Electrical design will be provided including instrumentation, controls, site lighting, and integration of the power needs with the existing on site generator. Design services shall include surveying and geotechnical investigations as necessary.

This task includes FDEP wastewater and Seminole County site plan permitting. Permitting fees shall be included in the scope.

#### ***Anticipated Des Pinar MPS General Configuration***





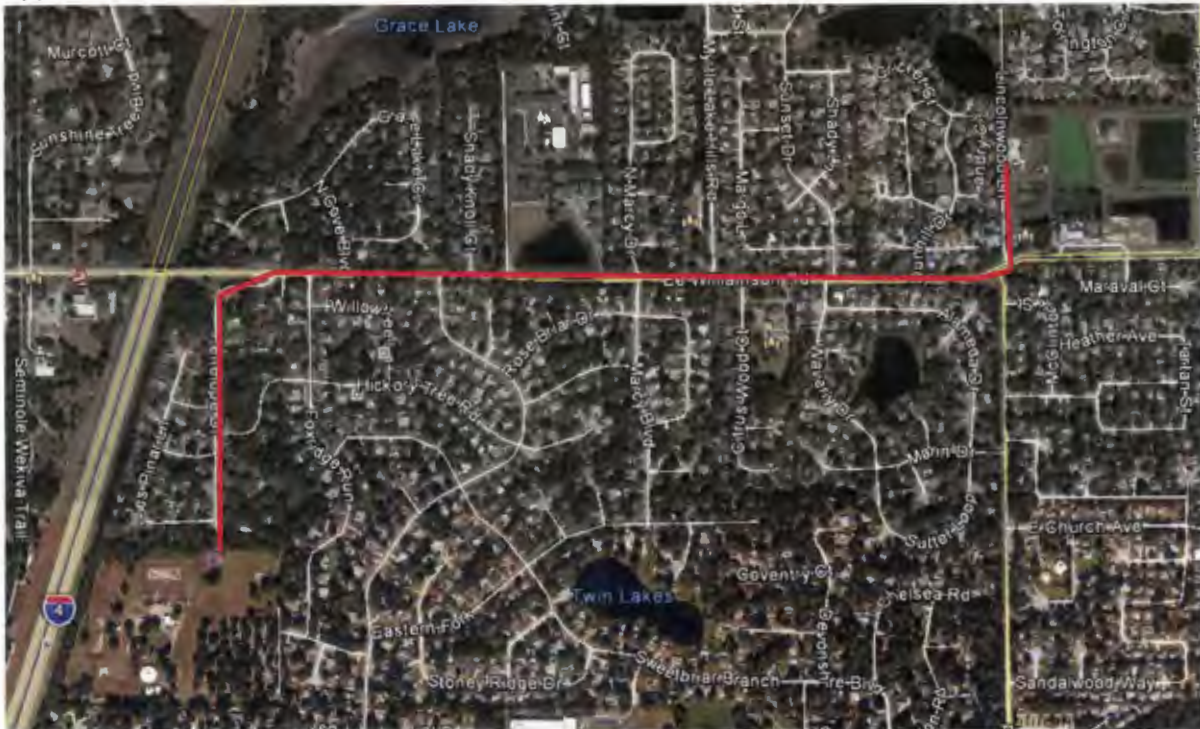
#### ***Task 4: Shadow Hills Force Main Improvements***

This task includes the design of approximately 7,800 linear feet of 12-inch force main from the existing Shadow Hills wastewater facility to the proposed Des Pinar Master Pumping Station. This task shall include an evaluation of the existing lift stations in the Longwood service area to determine the necessary modifications due to the changed hydraulic conditions. This analysis will correspond with the analysis in Task 3 to provide a better understanding of the impacts on the existing lift stations. An increased head condition is anticipated to be observed at the lift stations which will be pumping directly to the Des Pinar MPS. Pump replacement recommendations will be provided in the engineering evaluation. No specific civil or electrical design to these stations needs to be included in the scope of services. The findings of this analysis will be provided in a technical memorandum for approval by staff prior to design.

The force main will be designed in the right of way for the majority of this route. Surveying and geotechnical investigations will be provided as necessary to complete the design of this project.

This task includes FDEP wastewater and Seminole County right of way permitting. Permitting fees shall be included in the scope.

#### ***Approximate Route of Shadow Hills FM***



#### ***Task 5: Shadow Hills WWTF Decommissioning***

This task includes the permitting and coordination assistance to decommission the Shadow Hills wastewater treatment facility. This includes a basic plan and scope of construction services to properly demolish the existing infrastructure and assist with recommendations for the construction activities necessary. This work does not include any surveying, electrical, or geotechnical design or investigations.

#### ***Task 6: Construction Administration Services***

These projects will need to be constructed in multiple phases and is anticipated to require four separate construction contracts each with its own biddable sets of plans and associated specifications. The decommissioning would follow a guidance document prepared to assist with soliciting bids for the demolition of the existing facility.

This task includes construction administration, shop drawing review, RFI responses, support services for building and right of way permitting, part time inspection, start-up and testing assistance, and record drawing preparation and close-out documents.

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-28**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

PCF-28 Wekiva WWTP Blower Replacement

Held for future use

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-29**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida8**





## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2015084

Requested by:

Bryan K. Gongre

Date: 4/13/2015

Project Manager / Area Manager

Project Name:

Eng-Const Well 2A &amp; LS A-1 Gen

Company:

255

Sanlando Utilities Corp

Business Unit:

255100

Sanlando Utilities Corp W

Project Owner:

John Hoy

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP: John Hoy

03

Start Date:

4/20/2015

Q2 2015

Region:

Florida

04

Estimated End Date:

7/31/2015

Q3 2015

State:

FL

Project Type:

EH&amp;S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$15,800

Still to be Requested:

Total Project Budget:

\$15,800

## Description:

The Des Pinar WTP is supplied by four potable water wells. In the event of a commercial power outage only Well #2 is able to operate on auxiliary power as supplied by the Des Pinar WTP's auxiliary generator. The remaining three wells (1, 1A and 2A) do not have any auxiliary power source.

LS A-1 is located within 200' of Well 2A. This critical lift station receives the majority of the gravity flow generated from the customers on the Des Pinar (east) side of I-4 in the Sanlando collection system. LS A-1 pumps across I-4 to the west side of the Sanlando system to LS F-2 where it is repumped to the Wekiva WWTF. LS A-1 is equipped with a remote generator receptacle but requires a mobilization effort to transport a portable generator to the site to power up the station in the event of a commercial power outage. This project will provide engineering design and permitting required in order to relocate an existing 250kW generator from the Des Pinar Operations Building to adjacent to Well 2A where it will provide auxiliary power to the 2A and to LS A-1.

The project scope also includes the relocation and installation of an existing 25kW propane generator that will take the place of the 250kW generator and thus provide back up power to the Des Pinar Operations Building.

## Timeline Considerations:

Timing is tied to the 2015 hurricane and storm season.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

No

Engineering project number

(If applicable)

**Justification and Benefits:**

By providing an auxiliary means to power Well 2 (the largest of the four water supply wells at Des Pinar WTP) during a commercial power outage, the Des Pinar Plant will be much less likely to run out of water during a power outage.

By virtue of supplying emergency power to LS A-1, there is a reduced risk of sanitary sewer overflows within the Woodlands subdivision. Additionally, electric service to LS A-1 can be eliminated, which will reduce O&M costs slightly. The combined electrical load may be sufficient to qualify the account for an interruptible service tariff that would generate additional O&M savings.

Also, by repositioning an existing 250 kW generator for this specific application, the utility's operations staff can more efficiently and effectively respond following a natural or manmade disaster to restore and maintain service to the customers. There would be no need to tow a large trailer-mounted generator to the site and hook it up.

**Risk Evaluation**

Commercial power outages at the Des Pinar facility occur more frequently than other areas as a result of poorly configured and outdated overhead power lines in the area. Several manhole overflows have occurred in the area that have been minor in nature but reportable to FDEP. The overflows typically occur as a result of the response time required to retrieve and connect a portable generator and the relatively small storage capacity within A-1's piping. This project will significantly mitigate this issue. However, an overflow situation could occur should there be a problem with the auxiliary generator, automatic transfer switch, or other type of mechanical or electric failure. This risk is further mitigated by installing an RTU to connect the site to the Wekiva SCADA system and by exercising the generator on a weekly basis under load.

**Alternatives Considered:**

There are remote generator receptacles located at both Well 2A and Lift Station A-1 that could continue to be utilized without the need to move forward with the project. Since LS A-1 is a high flow station, extended response times will continue to create overflows and reportable spills.

**Technical Review Summary:**

**Capital Plan**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	15,800				
Project Spend in Current Plan					
Variance	(15,800)	-	-	-	-
CIAC Collected					
Net Rate Base	15,800	15,800	15,800	15,800	15,800

(if applicable)

**O&M Cost Impact B/(W)**

180	180	180	180	180
-----	-----	-----	-----	-----

**Financial Justification**

The electric savings would be the elimination of a Duke Energy monthly power meter base charge of approximately \$15.00 at the Lift Station.

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

Served	Rate Payers
(0.09)	(0.09)
21,347	21,347

**Utility Financial Impact**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	75	180	180	180	180
Depreciation Impact on EBIT B/(W)	(329)	(790)	(790)	(790)	(790)
Under-recovery on capital B/(W)	(290)	(1,101)	(1,042)	(983)	(923)
Net EBIT Impact B/(W)	(620)	(1,891)	(1,832)	(1,773)	(1,713)

**Timing and Supporting Information on Rate Recovery**

**Regulatory Plan Implications**

**Assumptions**







## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

4/16/2015

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by

Christie Kincaid

Date:

5/4/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan Gongre

Date:

4/29/2015

☒

VP Operations:

Patrick C. Flynn

Date:

4/29/2015

☒

President:

John P. Hoy

Date:

5/4/2015

☒

### Approval or Re-Direction Comments





## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #: 2016067

Requested by:

Bryan K. Gongre

Date:

5/25/2016

Project Manager / Area Manager

Project Name:

Const DP W2A &amp; LS A-1 Gen

Company:

255

Sanlando Utilities Corp

Business Unit:

255100

Sanlando Utilities Corp W

Project Owner:

Bryan K. Gongre

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP: John Hoy

03

Start Date:

6/6/2016

Q2 2016

Region:

Florida

04

Estimated End Date:

12/31/2016

Q4 2016

State:

FL

Project Type:

EH&amp;S Compliance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$327,637

Still to be Requested:

Total Project Budget:

\$327,637

## Description:

Purchase and installation of the following equipment at Des Pinar Well 2A:

1. 130kW diesel generator with sub-base double-walled fuel tank with automatic transfer switch
2. Underground 3-phase 480V electric service
3. Radio transmitter & panel at Wells 1, 1A and 2A
4. 4-20mA meter registers on Wells 1, 2 and 2A pump headers
5. Ace Motorola RTU at the Des Pinar WTP.

Purchase and installation of the following equipment at Des Pinar Lift Station A-1:

1. 480VAC conductors between Well 2A and LS A-1
2. 480V control panel. The existing 240VAC control panel (installed in 1998) will be retired.

## Timeline Considerations:

Project completion needs to take within two years of the end of the 2015TY as a proforma project included in the rate case to be filed in 3Q16.

Inter-dependant Project

Project Number:

2015084

Project Name

Eng. Well2A &amp; LS A-1 Gen

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

2015084

(If applicable)

**Justification and Benefits:**

1. The Des Pinar WTP serves the east side of the Sanlando water system. There are four (4) wells that supply water to the WTP but currently only Well 2 is backed up by the WTP's auxiliary generator. Installing a generator at Well 2A will provide additional water supply in the event of a local or widespread power outage. Lift Station A-1 is located within 150 feet of Well 2A and is one of two lift stations that pump raw sewer flow from subdivisions on the east side of I-4 to the Wekiva WWTF. The electric service from Well 2A will be extended to LS A-1 to provide back up power to the lift station from the new generator.
2. LS A-1's control panel will be upgraded from 240V to 480V to match the output voltage of the new generator. The existing submersible sewage pumps will be rewired to 480VAC and remain in service.
3. A radio transmitter will be installed at Well 2A site to connect to the Des Pinar WTP's master controller. Wells 1, 1A and 2 will be outfitted with panels and radio transmitters in order to communicate with the Des Pinar WTP's control equipment and Wekiva SCADA.
4. A new 4-20 mA meter register will be installed at Wells 1, 2, and 2A. Well 1A is already set up with similar equipment.
5. A new Ace Motorola Remote Telemetry Unit (RTU) with cellular communication features will be installed at the Des Pinar WTP that will be linked to the existing Wekiva SCADA system.
6. These improvements will provide auxiliary power to two critical facilities at Des Pinar and thus allow for monitoring of the Des Pinar site at Wekiva as well as remote monitoring through the VPN connection. The existing C&A alarm panels will be replaced by the SCADA system, which will provide a more robust, bi-directional control system that will enhance the performance and reliability of the equipment and consequently reduce the risk of loss of water and/or sewer service to our customers during abnormal events.

**Risk Evaluation**

Well 1A produces 2,300 gpm while Well 2 produces 1,000 gpm. By providing auxiliary power to Well 2A (800 gpm output), the Des Pinar WTP will be supplied by the combined output from two large wells in the event of a power outage in the area. This will reduce the risk of a loss of water service and fire flow during storm events or other abnormal scenarios. Providing the means to supply emergency power immediately to LS A-1 will prevent SSOs from occurring that would otherwise happen during a widespread outage. Historically, loss of power to LS A-1 occurs frequently each month albeit for short time intervals.

The switch from C&A alarm panels to SCADA for alarm monitoring will provide a quicker response time and assist in reducing the duration and frequency of water plant outages.

**Alternatives Considered:**

If nothing is done to provide auxiliary power, the potential exists for SSOs to occur resulting in property damage and negative environmental impact. Additionally, a loss of normal power offers the risk of the utility being unable to supply potable water and fire flow to its customers under abnormal circumstances.

**Technical Review Summary:**

The project was submitted and discussed with the CPRT on 5/26/16 without any revisions or additions.



## Financial and Regulatory Implications

### Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

#### Variance

CIAC Collected

Net Rate Base

Yr 1 Yr 2 Yr 3 Yr 4 Yr 5

327,637				
327,637				
-	-	-	-	-
327,637	327,637	327,637	327,637	327,637

(if applicable)

O&M Cost Impact B/(W)

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### Financial Justification

Estimated Revenue Impact per Customer:

Number of Customers Impacted:

#### Served Rate Payers

(3.28)	(3.28)
11,023	11,152

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1 Yr 2 Yr 3 Yr 4 Yr 5

-	-	-	-	-
(6,553)	(13,105)	(13,105)	(13,105)	(13,105)
(12,041)	(23,098)	(22,115)	(21,133)	(20,150)
(18,593)	(36,204)	(35,221)	(34,238)	(33,255)

### Timing and Supporting Information on Rate Recovery

This is a proforma project to be included in the 2016 rate case filing.

### Regulatory Plan Implications

This project is included in the Region's 2016 capital plan.

### Assumptions

**BID INFORMATION AND BUDGET BREAKDOWN**

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Thompson Electric	\$242,917	Yes
2	Chinchor Electric	\$329,548	No
3	North Lake Electric	No bid	No

**Component:****Amount**

Value Bid Elements

242,917.00

should match selected bid(s) above

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

ScadaOne (Equipment/RTU/Integration)

82,220.00

Avanti (Meter and Meter registers)

2,500.00

**Total Project Budget****327,637.00**

should match Total Budget on General Information

**Object Account(s) to which project will be closed:**

1105

1200

Electric Pump Equip Wtp

Power Operated Equip

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)**General Comments:**

This project was bid out to four (4) electric contractors but only two bids were received. BNP Electric failed to attend the pre-bid meeting on site and did not submit a bid. North Lake Electric chose not to bid the project, apparently due to their current work load and contract obligations.

ScadaOne, which initially established the SCADA systems at Wekiva and Lake Groves plant sites, is the sole source for procuring SCADA equipment and its integration.





## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 5/26/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

### Technical Peer Review

Review Sponsored by Patrick Flynn Date Held 5/26/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

Revised the description and justification to document the prudence and timeliness of the project.

### FP&A Review

Review Completed by Christie Kincaid Date: 5/27/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 5/26/2016 ☒

VP Operations: Patrick C. Flynn Date: 5/27/2016 ☒

President: John P. Hoy Date: 5/31/2016 ☒

### Approval or Re-Direction Comments



DES PINAR WELL 2A & LS A1 GENERATOR - BID TABULATION	
BMP Electric, Inc.	No bid received
North Lake Electric	No bid received
Chinchor Electric Inc.	\$329,538.40
Thompson Electric, LLC	\$242,917.00
ScadaOne (Sole Source RTUs and Electrical Equipment)	\$82,220.00
Total	\$325,137.00

Utilities Inc.  
Bid Responses  
May 2016

Des Pinar Well No.1, 1A, No.2A and Lift Station No.1A	
Contractor	Proposed Fee
Chincor Electric, Inc.	\$329,538.40
Thompson Electric, LLC	\$242,917.00

Misc. WTP Improvements	
Contractor	Proposed Fee
Chincor Electric, Inc.	\$152,239.00
Thompson Electric, LLC	\$83,750.00

City Provided Proposals:

Des Pinar Well No.1, 1A, No.2A and Lift Station No.1A	
Contractor	Proposed Fee
SCADAOne, LLC	\$82,220.00

Misc. WTP Improvements	
Contractor	Proposed Fee
SCADAOne, LLC	\$146,480.00

May 20, 2016

Stephen Bailey  
Bailey Engineering  
10620 Griffin Road, Suite 202  
Cooper City, Florida 33328

We are pleased to provide you with this updated proposal for the Des Pinar project, per the specified drawings and specifications. Our proposal includes the following:

DES PINAR WELLS NO. 1, NO. 1A, NO. 2A AND LS NO. A1

- Kick-off Meeting and Submittals..... \$4,150
- Design and Drawings..... \$8,260
- Lift Station Control Panel LSA1 and Startup ..... \$20,9403
  - Reduce short circuit rating to 18kAIC
- Well 2A RTU, PCP Mods, Termination, Controls, and Startup ..... \$9,540
- Well 1A and 1 RTUs, PCPs Mods, Termination, Controls, and Startup ..... \$10,420
- Master RTU, PCP Mods, Configuration, and Startup ..... \$9,410
  - Remove 7 I/O Slot Frame and replace with 3 I/O Slot Frame
- Software(HMI and PLC)..... \$17,640
- Spare Parts ..... \$1,860
  - Remove Zerust

Project Total..... \$82,220

Thank you for giving us the opportunity to provide you with this proposal. I hope you find it favorable. Feel free to contact me if you have any questions or need additional information.

Sincerely,

Kevin L Mathes  
System Designer, CEO  
863-581-4902  
kmathes@scadaone.com

BILL BAHLER

THOMPSON ELECTRIC, LLC

PO BOX 2531 INVERNESS, FL 34451

CELL: (800) 947-9499 ▲ PHONE: (352) 637-0702 ▲ FAX: (352) 637-0702

Email [bill.bahler@thompsolecfl.com](mailto:bill.bahler@thompsolecfl.com)

PROPOSAL

No. P720-0516-A

May 18, 2016

Bailey Engineering Consultants  
10620 Griffin Rd., Suite 202  
Cooper City, FL 33328

**Re: Des Pinar WTP, Wells, 1, 1A and 2A and Lift Station A1**

Dear Stephen Bailey,

Thompson Electric, LLC is pleased to offer the following proposal for your review.

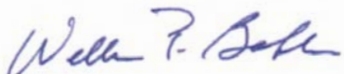
Furnish and install electrical material and equipment for the Des Pinar WTP, Wells, 1, 1A and 2A and Lift Station A1 as shown on the plan sheets E-01 through E-09 and as called out in Division 16000 of the electrical specifications and addendum No.1 dated May 9, 2016.

**Note:** We are offering an alternate deduct of (-\$5,807.00) for the substitution of a 130 KW, Genset with a 175 KW alternator. The above alternator is adequate to start and carry the site loads and meets the criteria of Division 16216 (generator specification).

**TOTAL PRICE - \$242,917.00**

This proposal may be withdrawn by us if not accepted within 30 days.

Respectfully submitted,



William P. Bahler  
Project Manager

WPB



## PROPOSAL FOR SERVICES

To: Utilities Inc.  
Street Address:  
City/State/Zip:  
Phone:  
Fax:

Date: 5/18/2016

Project Name: Utilities Inc.  
Location: Seminole County

**SCOPE:** Chinchor Electric, Inc. proposes services to furnish and install specified work for drawings titled Des Pinar Well No. 2A and Lift Station No. 1A / Misc. WTP Improvements, dated April 2016, & engineered by Bailey Engineering. Chinchor Electric, Inc includes the receipt of (1) addendums and only includes what is stated below.

**\*\*\*This Quote does NOT include any of Scada One's costs or associated work.\*\*\***

We shall furnish labor and materials complete and in accordance with above specifications and in compliance with the National Electric Code, Local Code and Standard Practices for the sum of:

Utilities Inc. Quote		
1	Des Pinar Well No.1, 1A, No.2A and Lift Station No.1A	\$329,538.40
2	Misc. WTP Improvements	\$152,239.00
<b>Bid Total:</b>		<b>\$481,777.40</b>

Full payment of all invoices shall be due within the terms negotiated at time of contract. Any and all legal fees and costs, collection costs, and court costs which arise out of non-payment of any invoice shall be paid by Customer, regardless of whether formal legal action has been instituted. The venue for any disputes or legal actions related to this agreement shall be Volusia County, Florida. All past due amounts shall bear interest at the rate of 18% per annum or the maximum statutory rate, whichever is less.

- We retain all Florida Lien rights until final payment in full.
- Any deviation from the above specifications resulting in extra work will be executed only upon written order.
- All agreements are contingent upon accidents or delays beyond our control.
- This proposal is subject to **acceptance within Thirty (30) working days** and is void thereafter at the option of Chinchor Electric, Inc.



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Chinchor Electric, Inc.

Utilities Inc.

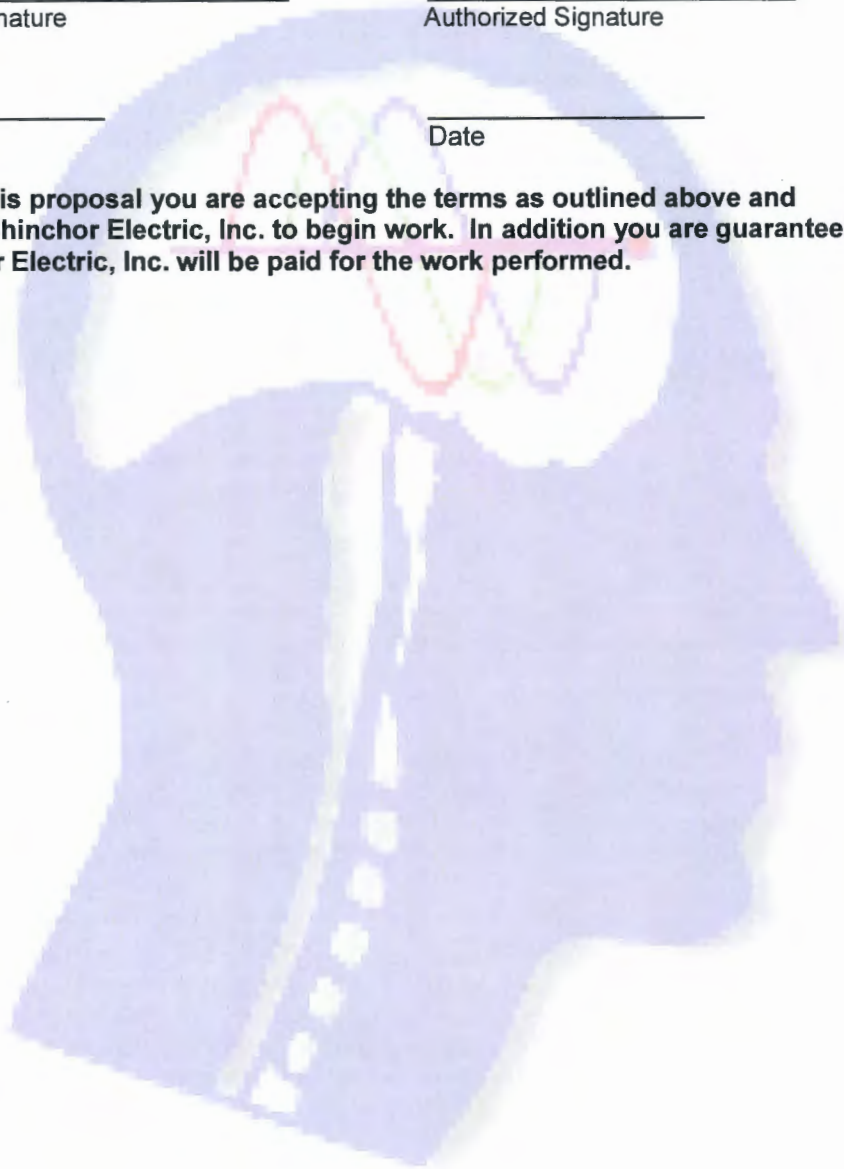
\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

**By signing this proposal you are accepting the terms as outlined above and authorizing Chinchor Electric, Inc. to begin work. In addition you are guaranteeing that Chinchor Electric, Inc. will be paid for the work performed.**



SECTION 00520  
AGREEMENT FORM

**PART 1 GENERAL**

1.01 **THIS AGREEMENT**, made this 17th day of June, 2016, by and between  
Utilities Inc. of Florida, hereinafter called the Owner, and  
Thompson Electric, LLC, doing business as a \_\_\_\_\_ and  
hereinafter called the Contractor

1.02 **The Owner and Contractor agree as follows:**

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the Bonds, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Des Pinar Well 2A & LS A1 Generator

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 120 OR 45 DAYS calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

(WB)  
FROM  
RECEIPT  
OF GENERATOR  
OR OWNER  
FURNISHED  
CONTROL PANELS

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of Two hundred forty two thousand nine hundred seventeen dollars Dollars (\$ 242,917.00 ).

Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

H. Engineer

The Project has been designed by Bailey Engineering Consultants, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Thompson Electric, LLC

Name of Firm

William Bahler, Project Manager  
By (Signature)

(SEAL)

William Bahler, Project Manager  
Printed Name and Title

ATTEST:

Sharon Kaskie  
By (Signature)

SHARON KASKIE, ADMINISTRATIVE ASSISTANT  
Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner

Bryan K. Gongre  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

Susan M. DiPasquale  
By (Signature)

Susan M. DiPasquale  
Printed Name and Title

END OF SECTION

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-30**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<input type="text" value="New Project"/>		<b>Assigned Project #:</b> <input type="text" value="2016058"/>	
<b>Requested by:</b>	<input type="text" value="Bryan K. Gongre"/> <i>Project Manager / Area Manager</i>			<b>Date:</b>	<input type="text" value="4/12/2016"/>
<b>Project Name:</b>	<input type="text" value="Wekiva WWTF Rehab"/>				
<b>Company:</b>	<input type="text" value="255"/>	<input type="text" value="Sanlando Utilities Corp"/>			
<b>Business Unit:</b>	<input type="text" value="255101"/>	<input type="text" value="Sanlando Utilities Corp S"/>			
<b>Project Owner:</b>	<input type="text" value="Bryan K. Gongre"/>			<b>BU Type:</b>	<input type="text" value="SP"/>
<b>Project Manager:</b>	<input type="text" value="Bryan K. Gongre"/>			<b>Budget Owner / RVP:</b>	<input type="text" value="John Hoy"/> 03
<b>Start Date:</b>	<input type="text" value="4/18/2016"/>	<input type="text" value="Q2 2016"/>	<b>Region:</b> <input type="text" value="Florida"/> 04		
<b>Estimated End Date:</b>	<input type="text" value="6/30/2017"/>	<input type="text" value="Q2 2017"/>	<b>State:</b> <input type="text" value="FL"/>		
<b>Project Type:</b>	<input type="text" value="EH&amp;S Compliance"/>				
<b>Will project replace/retire any assets:</b>	<input type="text" value="Yes"/>				
<b>Previously Requested:</b>	<input type="text" value="\$1,802,790"/>				
<b>This Request:</b>	<input type="text" value="\$10,534"/>				
<b>Still to be Requested:</b>	<input type="text"/>				
<b>Total Project Budget:</b>	<input type="text" value="\$1,813,324"/>				
<b>Description:</b>					
<p>Empty, clean and completely rehabilitate each of the three wastewater treatment plants at the Wekiva Hunt Club facility. The work will include the replacement of two clarifier drives, all 2.5" diffusers and drop pipe assemblies with 304SS materials, WAS and RAS boxes with air lift pipe assemblies, scum troughs with 304SS materials, new skimmer arm assemblies, splash plates, replacement of all degraded steel supports, channels, I-beams and other corroded structural elements, lighting, replacement of steel guard rails with aluminum rails including toe plates where necessary, sandblast and paint interior with 16 mils of coal tar epoxy, exterior painting with 5 mils epoxy and disposal of all used piping.</p> <p>Change Order #1 - Remobilization charges in the amount of \$10,534.00 for ECO-2000 who is performing the tank cleaning in advance of Evoqua tank rehab.</p>					
<b>Timeline Considerations:</b>					
<p>During the recent operating permit renewal FDEP pointed out areas of the plant that need to be repaired and were advised that the work was pending and included in the Capital Plan. Under a separate project, the Shadow Hills plant flow will be diverted to the Wekiva plant. This rehab project of all three treatment trains will need to be completed prior to the diversion of flow as well as correcting the collection system deficiencies found in the Phase 2 I&amp;I study.</p>					
<b>Inter-dependant Project</b>	<b>Project Number:</b>	<input type="text" value="NA"/>	<b>Project Name</b>	<input type="text" value="NA"/>	(If applicable)
<b>Have engineering evaluations been performed?</b>	<input type="text" value="No"/>	<b>Engineering project number</b>	<input type="text" value="NA"/>	(If applicable)	

**Justification and Benefits:**

The Wekiva WWTF is comprised of three (3) circular wastewater treatment trains that are rated at a combined 2.9 MGD. Each of the three plants have been in service for over twenty years without any comprehensive rehab work being performed. There are two baffle walls separating air bays from aerobic digesters that have become significantly deteriorated and are flexing under the hydrostatic pressure of the contents and are of concern. Repairing the baffle walls will prevent catastrophic failure and maintain the integrity of the structure. Debris in the way of sand, grit and rags have accumulated throughout each plant's airbays reducing the overall treatment efficiency. By removing the debris additional treatment capacity will be reestablished in the airbays and thus return each plant to its original design specifications. Thereafter, the diversion of flow from the Shadow Hills WWTF will occur without causing the plant effluent quality to degrade. Many areas near walk ways are significantly deteriorated and lighting atop each plant is inadequate creating a potential safety hazard. When diffusers fail, the replacement drop pipe must be shortened by two to three feet before they can be reinstalled due to the mass of grit and sand that has accumulated on the bottom of the tanks. The existing clarifier drives on two of the plants are past the end of their service life and repair parts are no longer available. By replacing the drives, future maintenance and repair activities can be performed quickly and efficiently.

Change Order #1 -In preparation of plant #3 rehab, the plant was taken off line and pumped down to begin removing accumulated debris and cleaning. Therefore, all of the plant flow was sent to plants #1 and #2 for treatment that created plant upset conditions resulting in solids being sent to the filters and binding of the media and increasing backwash frequency. Treated water in excess of what the filters could process was sent to RIBs 2, 3 and 4 until such time as the southwest GWMW exceeded the permitted 7.0 foot groundwater elevation level resulting in daylighting toward the south of the plant property along Azalea Drive. Due to these circumstances, plant #3 had to be placed back in service until a game plan was developed to address an alternative approach. The cleaning contractor was pushed back leading to additional expense.

**Risk Evaluation**

It is critical that the three treatment trains are operating as designed in a routine, reliable manner in order to maximize the production of reclaimed water. Effluent that fails to meet reclaimed water limits is either discharged to on-site percolation ponds for short intervals or discharged to Sweetwater Creek after completing advanced treatment to meet stringent nutrient limits.

**Alternatives Considered:**

Doing nothing will ultimately lead to failure of several plant components possibly affecting the structural integrity and the treatment process itself.

This type of project must be undertaken from time to time at most wastewater facilities depending upon the amount of use, weather conditions over time and type of facility. In this instance, run to fail is not an option.

**Technical Review Summary:**

CPRT review conducted on 4/14/16. Comment received regarding the need to evaluate interior coating options. Stated that the same protocols used to rehabilitate the Lake Groves South WWTF would be used on this project.

## Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	911,929	901,395			
Project Spend in Current Plan	911,929	901,395			
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	911,929	1,813,324	1,813,324	1,813,324	1,813,324

(if applicable)

## O&M Cost Impact B/(W)

--	--	--	--	--	--

## Financial Justification

Change Order #1 - The financials were adjusted upward by \$10,534.00 in year one from \$901,395 to \$911,929.

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(17.69)	(17.69)
11,152	11,152

## Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(22,798)	(68,131)	(90,666)	(90,666)	(90,666)
Under-recovery on capital B/(W)	(16,671)	(129,180)	(122,380)	(115,580)	(108,780)
Net EBIT Impact B/(W)	(39,469)	(197,311)	(213,046)	(206,246)	(199,446)

## Timing and Supporting Information on Rate Recovery

This is a pro-forma project to be included in the 2016 consolidated rate case and is a component of the Capital Plan. The treatment trains will be rehabilitated one at a time beginning with Plant #2. Once a treatment train is taken out of service, the remaining two trains will temporarily treat an elevated flow. Consequently, the project's completion is expected to occur in 2Q17.

## Regulatory Plan Implications

## Assumptions







## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 4/21/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the Asset Management Plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 4/14/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

Utilize the technical assistance offered by Tnemec and/or Sherwin Williams representatives regarding the protective coating system.

### FP&A Review

Review Completed by Christie Kincaid Date: 4/27/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 4/21/2016 ☒

VP Operations: Patrick C. Flynn Date: 4/29/2016 ☒

President: John P. Hoy Date: 5/2/2016 ☒

### Approval or Re-Direction Comments





## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>	New Project		<b>Assigned Project #:</b>	2016058	
<b>Requested by:</b>	Bryan K. Gongre <i>Project Manager / Area Manager</i>		<b>Date:</b>	4/12/2016	
<b>Project Name:</b>	Wekiva WWTF Rehab				
<b>Company:</b>	255	Sanlando Utilities Corp			
<b>Business Unit:</b>	255101	Sanlando Utilities Corp S			
<b>Project Owner:</b>	Bryan K. Gongre		<b>BU Type:</b>	SP	
<b>Project Manager:</b>	Bryan K. Gongre		<b>Budget Owner / RVP:</b>	John Hoy	03
<b>Start Date:</b>	4/18/2016	Q2 2016	<b>Region:</b>	Florida	04
<b>Estimated End Date:</b>	6/30/2017	Q2 2017	<b>State:</b>	FL	
<b>Project Type:</b>	EH&S Compliance				
<b>Will project replace/retire any assets:</b>	Yes				
<b>Previously Requested:</b>					
<b>This Request:</b>	\$1,802,790				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	\$1,802,790				
<b>Description:</b>					
Empty, clean and completely rehabilitate each of the three wastewater treatment plants at the Wekiva Hunt Club facility. The work will include the replacement of two clarifier drives, all 2.5" diffusers and drop pipe assemblies with 304SS materials, WAS and RAS boxes with air lift pipe assemblies, scum troughs with 304SS materials, new skimmer arm assemblies, splash plates, replacement of all degraded steel supports, channels, I-beams and other corroded structural elements, lighting, replacement of steel guard rails with aluminum rails including toe plates where necessary, sandblast and paint interior with 16 mils of coal tar epoxy, exterior painting with 5 mils epoxy and disposal of all used piping.					
<b>Timeline Considerations:</b>					
During the recent operating permit renewal FDEP pointed out areas of the plant that need to be repaired and were advised that the work was pending and included in the Capital Plan. Under a separate project, the Shadow Hills plant flow will be diverted to the Wekiva plant. This rehab project of all three treatment trains will need to be completed prior to the diversion of flow as well as correcting the collection system deficiencies found in the Phase 2 I&I study.					
<b>Inter-dependant Project</b>	<b>Project Number:</b>	NA	<b>Project Name</b>	NA	(If applicable)
<b>Have engineering evaluations been performed?</b>	No	<b>Engineering project number</b>	NA	(If applicable)	

**Justification and Benefits:**

The Wekiva WWTF is comprised of three (3) circular wastewater treatment trains that are rated at a combined 2.9 MGD. Each of the three plants have been in service for over twenty years without any comprehensive rehab work being performed. There are two baffle walls separating air bays from aerobic digesters that have become significantly deteriorated and are flexing under the hydrostatic pressure of the contents and are of concern. Repairing the baffle walls will prevent catastrophic failure and maintain the integrity of the structure. Debris in the way of sand, grit and rags have accumulated throughout each plant's airbays reducing the overall treatment efficiency. By removing the debris additional treatment capacity will be reestablished in the airbays and thus return each plant to its original design specifications. Thereafter, the diversion of flow from the Shadow Hills WWTF will occur without causing the plant effluent quality to degrade. Many areas near walk ways are significantly deteriorated and lighting atop each plant is inadequate creating a potential safety hazard. When diffusers fail, the replacement drop pipe must be shortened by two to three feet before they can be reinstalled due to the mass of grit and sand that has accumulated on the bottom of the tanks. The existing clarifier drives on two of the plants are past the end of their service life and repair parts are no longer available. By replacing the drives, future maintenance and repair activities can be performed in quickly and efficiently.

**Risk Evaluation**

It is critical that the three treatment trains are operating as designed in a routine, reliable manner in order to maximize the production of reclaimed water. Effluent that fails to meet reclaimed water limits is either discharged to on-site percolation ponds for short intervals or discharged to Sweetwater Creek after completing advanced treatment to meet stringent nutrient limits.

**Alternatives Considered:**

Doing nothing will ultimately lead to failure of several plant components possibly affecting the structural integrity and the treatment process itself.

This type of project must be undertaken from time to time at most wastewater facilities depending upon the amount of use, weather conditions over time and type of facility. In this instance, run to fail is not an option.

**Technical Review Summary:**

CPRT review conducted on 4/14/16. Comment received regarding the need to evaluate interior coating options. Stated that the same protocols used to rehabilitate the Lake Groves South WWTF would be used on this project.

Capital Plan	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	901,395	901,395			
Project Spend in Current Plan	901,395	901,395			
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	901,395	1,802,790	1,802,790	1,802,790	1,802,790
O&M Cost Impact B/(W)					

(if applicable)

Financial Justification

Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(17.58)	(17.58)
11,152	11,152

Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(22,535)	(67,605)	(90,140)	(90,140)	(90,140)
Under-recovery on capital B/(W)	(16,479)	(128,449)	(121,688)	(114,928)	(108,167)
Net EBIT Impact B/(W)	(39,014)	(196,053)	(211,828)	(205,067)	(198,307)

Timing and Supporting Information on Rate Recovery

This is a pro-forma project to be included in the 2016 consolidated rate case and is a component of the Capital Plan. The treatment trains will be rehabilitated one at a time beginning with Plant #2. Once a treatment train is taken out of service, the remaining two trains will temporarily treat an elevated flow. Consequently, the project's completion is expected to occur in 2Q17.

Regulatory Plan Implications

Assumptions

**BID INFORMATION AND BUDGET BREAKDOWN**Have three bids been received? 

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Evoqua	\$1,526,000	Yes
2	ECO-2000	\$1,704,000	No
3	FEC	\$1,695,555	No

**Component:****Amount**

Value Bid Elements	1,526,000.00
Engineering	
Direct Purchase of Parts / Materials	
Landscaping / Site Restoration	
Other Components (specify):	
Cap Time	
Remove Debris/Clean/Pressure Wash Interior	158,850.00
7% Tax	117,940.00

**Total Project Budget****1,802,790.00****Object Account(s) to which project will be closed:**

1300

Struct/Imprv Treat Plt  
select from dropdown list  
select from dropdown list  
select from dropdown list  
select from dropdown list

[Go to Reference List](#)**General Comments:**

The removal of rags, debris, grit, sand, rags and pressure cleaning is estimated at 200 CY of material. The cost above in the amount of \$158,850.00 is from a bid received by ECO-2000. This type of task is very much a niche market where other bidders were not available.



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 4/21/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

#### Comments

This project aligns with the Asset Management Plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 4/14/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

Utilize the technical assistance offered by Tnemec and/or Sherwin Williams representatives regarding the protective coating system.

### FP&A Review

Review Completed by Christie Kincaid Date: 4/27/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

#### Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 4/21/2016 ☒

VP Operations: Patrick C. Flynn Date: 4/29/2016 ☒

President: John P. Hoy Date: 5/2/2016 ☒

### Approval or Re-Direction Comments





# BUDGET PROPOSAL

Evoqua Water Technologies Inc.  
1828 METCALF AVE  
THOMASVILLE, GA 31792

TELEPHONE 229-227-8736  
FACSIMILE 229-228-0312

TO Bryan Gongre CC Earl Griner P#160124-A0 Rev. 0

E-mail [BKGongre@uiwater.com](mailto:BKGongre@uiwater.com) Phone

FROM Bill Knisely DATE 03/02/2026 PAGE 1 OF 8

SUBJECT Wekiva WWTP Rehab

**Note:** The scope of supply and pricing are based on EVOQUA standard equipment selection, wage rates, standard terms of sale and warranty terms. Any variations from these standards may affect this budgetary proposal. Additionally, please note that this budgetary proposal is for review and informational purposes only and does not constitute an offer for acceptance.

Budget Price for Equipment/Materials, Demolition, Installation & Field Paint for Wekiva WWTP's #1, #2, & #3 F.O.B. Thomasville, Georgia. Freight allowed is **\$1,526,000.00**. Taxes not included.

**General Description:** Provide materials and equipment to rehab three (3) existing WWTP's. All WWTP's have a 116'-0" diameter outer wall and 60'-0" clarifier. Plants #1 & #3 have steel outer walls and Plant #2 is concrete. Components and materials will be delivered by Evoqua for installation by Evoqua. Evoqua is not responsible for the repair or structural design of the existing concrete.

## **SCOPE OF SUPPLY WWTP #3:**

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape.
- Provide and install all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.

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- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc...
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install new aluminum handrails on outside of peripheral walkway.
- Provide and install 1/8" aluminum splash plate to go under the walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 40' outer wall trim angle, 3/8" x 3" x 3", rolled leg in to replace existing as needed in aeration 1 zone.
- Furnish and install new 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 6" x 1 1/2" to replace peripheral toe plates as required.
- Furnish and install 8" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 3" x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 1/2" steel pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 27' long section of walkway to replace section from concrete structure to plant #3. Include 3' x 3' walkway off to side for accessing and cleaning influent bar screen to be included. Existing aluminum grating will be reused.
- Furnish and install approx. 200' of aluminum handrails and toe plates to run from plant #3 to walkway between plant #1 & #2.
- Replace 8" walkway beams on walkway that ties into concrete structure and runs to interconnecting walkway between plants #1 and #2.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was used in the contact stabilization mode. Patch holes in bulkheads where trough went thru.



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- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Repair gaps between outer wall and outer wall trim channel. Approx. 20' of welding required.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 3 channels on walkway between plant 3# and interconnecting walkway between plant #1 & #2.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

## SCOPE OF SUPPLY WWTP #2:

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape.
- Provide and stall all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 4" diameter center shaft.
- Provide and install 1/8" aluminum splash plate to go under the peripheral walkway.

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- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Furnish and install 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install material to replace top 48" of two bulkheads, one between digester & aeration 3 and one between aeration 2 & 3.
- Furnish and install bent plate 6 1/2" x 1 1/2" to replace peripheral toe plates as required.
- Furnish and install 4" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 2"x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 1/2" pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 1 light support bracket. Locate same location as existing light.
- Furnish and install 3 new support brackets for aluminum influent trough where original brackets were installed.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was use in the contact stabilization mode.
- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 10' pipe that is not being used in the CL2 zone.
- Install 1 new LED double headed light assembly. Same as on exiting new EQ tank.
- Sweep blast and paint interior with 16 mils coal tar epoxy. Paint top 4' of the interior concrete outer wall.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

## SCOPE OF SUPPLY WWTP #1:

- Provide and install new steel weir trough and scum baffle assemblies with drop box and 18" thick 304SS weir plates, hardware and seal tape.
- Provide and stall all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever

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operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.

- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install all new aluminum grating, handrails and toe plates on peripheral walkway.
- Furnish and install 3" x 3" x 1/4" angle for center support on peripheral walkway grating.
- Provide and install aluminum splash plate to go under the walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 100' outer wall trim angle, 3/8" x 3" x 3" angle rolled leg in to replace existing as needed in aeration 1 zone.
- Furnish and install approx. 100' of 18" x 1/4" steel plate to replace top of outer wall in aeration zone 1.
- Furnish and install 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 8" x 3" to replace peripheral toe plates as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 34' long section of walkway to replace section from Plant 2 to Plant 1.
- Furnish and install aluminum handrails and toe plates for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install new aluminum grating for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install 3" x 2" x 1/4" angle to support aluminum grating as required.
- Furnish and install 3 new support brackets for aluminum influent trough.

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- Furnish and install additional support channels and kicker on bulkhead between aeration 3 and digester consisting of two 15" channels x 30' long and 20' of 12" I-beam to be used as a kicker. Plate and anchors to be included.
- Furnish and install new aluminum handrails on existing stairway.
- Furnish and install new aluminum grating and required support steel for 36" x 36" stairway landing.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was use in the contact stabilization mode.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 54" x 54" opening rails and grating on walkway between plant and close walkway opening with new handrails.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

## **GUARANTEE:**

- One (1) year from date of acceptance not to exceed eighteen (18) month from date of shipment.

## **ERECTION SCOPE:**

Evoqua proposes to furnish labor, equipment and expendable materials to erect the equipment purchased on Evoqua Proposal Number 160124-A0.

- Customer is responsible to having the tanks drained and clean before Evoqua arrives on site.
- Evoqua is responsible for offloading the equipment supplied by Evoqua.
- All materials and equipment being removed by Evoqua during demolition to be disposed of on site.
- Evoqua is responsible for installing supplied accessories and/or equipment by normal fabrication and welding procedures.

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- Evoqua is responsible for providing the necessary construction equipment for erection (crane, welding machines, cutting equipment, etc.).
- Work hours by Evoqua Water Technologies LLC at the site shall be as determined by Evoqua Water Technologies LLC. The purchaser shall not define working hours, number of work days per week or prohibit Evoqua Water Technologies LLC from working evenings, weekends, holidays, etc., when deemed to be advisable by Evoqua Water Technologies LLC. General Terms and Conditions for Erection Work document is included as part of this proposal.

## FIELD CORROSION PROTECTION NOTES:

1. Field painting cannot be performed in inclement weather or when temperatures are below 45° F. Evoqua will not be responsible for delays in the project due to the weather conditions.
2. Due to the unknown integrity of the existing coating, and should additional blasting other than sweep blasting on existing steel be required, the customer will be responsible for any additional cost. The additional cost will be approved by customer before work is done.

## ADDITIONAL REPAIR NOTE:

1. There may be other items in need of repair that are not known at this time. Evoqua will give customer a quote for any additional repairs before work is to be done.

## NOT BY EVOQUA:

- Concrete or grout work
- Submittals
- Start-up
- Bypassing of plants during rehab
- Interconnection field piping of any kind
- Drain valves
- Any work on blowers
- Draining and cleaning of tanks
- Disinfection equipment

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# BUDGET PROPOSAL

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- 
- Any items not attached to the plant
  - Taxes, Permits, Bonds
  - Any other equipment or items not expressly mentioned in this proposal

**ECO-2000, INC**

P.O. BOX 2275

Bushnell, FL

Office: (352) 793-5060

Fax: (352) 793-9074

**PROPOSAL:**

Utilities Inc. of Florida

Attention: Bryan Gongre

Wekiva WWTP Rehabilitation Project

**SCOPE OF SUPPLY WWTP #3**

☐ Provide and install new drive assembly and controls to match what we furnished on Plant #1.

☐ Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir

plates, hardware and seal tape. Provide and install all new 2 1/2" diameter 304SS diffusers drop pipe

assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each

diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve

accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and

fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers

☐ Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.

☐ Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc...

☐ Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.

☐ Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.

☐ Furnish and install new skimmer arm assembly for a 6" diameter center shaft.

☐ Furnish and install new aluminum handrails on outside of peripheral walkway.

☐ Provide and install 1/8" aluminum splash plate to go under the walkway.

☐ Furnish and install new effluent overflow weir box in CL2, 304SS construction.

☐ Furnish and install grating clips with self-tapping screws.

☐ Provide and install approx. 40' outer wall trim angle, 3/8" x 3" x 3", rolled leg in to replace existing as needed in aeration 1 zone.

☐ Furnish and install new 304SS unistrut to support water lines, chlorine lines conduit etc. as required.

☐ Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.

☐ Furnish and install bent plate 6" x 1 1/2" to replace peripheral toe plates as required.

☐ Furnish and install 8" channel to replace existing peripheral walkway supports as needed.

☐ Furnish and install 3" x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.

☐ Furnish and install 2 1/2" steel pipe to replace existing air header supports as required.

☐ Furnish and install 2 plates to repair bulkhead wall where contact trough is removed

☐ Furnish and install 2 light support brackets. Locate same location as existing lights.

☐ Furnish and install 27' long section of walkway to replace section from concrete structure to plant #3. Include 3' x



3' walkway off to side for accessing and cleaning influent bar screen to be included. Existing aluminum grating will be reused.

Furnish and install approx. 200' of aluminum handrails and toe plates to run from plant #3 to walkway between plant #1 and #2.

Replace 8" walkway beams on walkway that ties into concrete structure and runs to interconnecting walkway between plants #1 and #2

Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.

Remove approx. 100' of trough that was used in the contact stabilization mode. Patch holes in bulkheads where trough went thru.

Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.

Repair gaps between outer wall and outer wall trim channel. Approx. 20' of welding required.

Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistrut.

Furnish and install all new 1" chlorine line.

Remove any items on plant that are not being used, like old support brackets, piping etc.

Remove 3 channels on walkway between plant 3# and interconnecting walkway between plant #1 & #2.

Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank

Sweep blast and paint interior with 16 mils coal tar epoxy.

Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

#### SCOPE OF SUPPLY WWTP #2

Provide and install new drive assembly and controls to match what we furnished on Plant #1.

Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape.

as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe

Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.

Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.

Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.

Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.

Furnish and install new skimmer arm assembly for a 4" diameter center shaft.

Provide and install 1/8" aluminum splash plate to go under the peripheral walkway.

Furnish and install new effluent overflow weir box in CL2, 304SS construction.

Furnish and install grating clips with self-tapping screws.

Furnish and install 304SS unistrut to support water lines, chlorine lines conduit etc. as required.

Furnish and install material to replace top 48" of two bulkheads, one between digester & aeration 3 and one between aeration 2 & 3.

Furnish and install bent plate 6 1/2" x 1 1/2" to replace peripheral toe plates as required.

Furnish and install 4" channel to replace existing peripheral walkway supports as needed.

Furnish and install 2"x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.



- ☐ Furnish and install 2 ½" pipe to replace existing air header supports as required.
- ☐ Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- ☐ Furnish and install 1 light support bracket. Locate same location as existing light.
- ☐ Furnish and install 3 new support brackets for aluminum influent trough where original brackets were installed.
- ☐ Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough
- ☐ Remove approx. 100' of trough that was use in the contact stabilization mode.
- ☐ Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- ☐ Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistrut.
- ☐ Furnish and install all new 1" chlorine line.
- ☐ Remove any items on plant that are not being used, like old support brackets, piping etc.
- ☐ Remove 10' pipe that is not being used in the CL2 zone.
- ☐ Install 1 new LED double headed light assembly. Same as on exiting new EQ tank.
- ☐ Sweep blast and paint interior with 16 mils coal tar epoxy. Paint top 4' of the interior concrete outer wall.
- ☐ Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

#### SCOPE OF SUPPLY WWTP #1

- ☐ Provide and install new steel weir trough and scum baffle assemblies with drop box and 18" thick 304SS weir plates, hardware and seal tape. Provide and stall all new 2 ½" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- ☐ Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- ☐ Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- ☐ Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- ☐ Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- ☐ Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- ☐ Furnish and install all new aluminum grating, handrails and toe plates on peripheral walkway.
- ☐ Furnish and install 3" x 3" x ¼" angle for center support on peripheral walkway grating.
- ☐ Provide and install aluminum splash plate to go under the walkway.
- ☐ Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- ☐ Furnish and install grating clips with self-tapping screws.
- ☐ Provide and install approx. 100' outer wall trim angle, 3/8" x 3" x 3" angle rolled leg in to replace existing as needed in aeration 1 zone.
- ☐ Furnish and install approx. 100' of 18" x ¼" steel plate to replace top of outer wall in aeration zone 1.
- ☐ Furnish and install 304SS unistrut to support water lines, chlorine lines conduit etc. as required.

Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
Furnish and install bent plate 8" x 3" to replace peripheral toe plates as required.
Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
Furnish and install 2 light support brackets. Locate same location as existing lights.
Furnish and install 34' long section of walkway to replace section from Plant 2 to Plant 1.
Furnish and install aluminum handrails and toe plates for bridge walkway across clarifier and part of walkway to outer wall.
Furnish and install new aluminum grating for bridge walkway across clarifier and part of walkway to outer wall.
Furnish and install 3" x 2" x 1/4" angle to support aluminum grating as required.
Furnish and install 3 new support brackets for aluminum influent trough.
Furnish and install additional support channels and kicker on bulkhead between aeration 3 and digester consisting of two 15" channels x 30' long and 20' of 12" I-beam to be used as a kicker. Plate and anchors to be included.
Furnish and install new aluminum handrails on existing stairway.
Furnish and install new aluminum grating and required support steel for 36" x 36" stairway landing.
Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
Remove approx. 100' of trough that was use in the contact stabilization mode.
Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistrut.
Furnish and install all new 1" chlorine line.
Remove any items on plant that are not being used, like old support brackets, piping etc.
Remove 54"X54" opening rails and grating on walkway between plant and close walkway opening with new handrails.
Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
Sweep blast and paint interior with 16 mils coal tar epoxy.
Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade
<b>GUARANTEE:</b>
One (1) year from date of acceptance not to exceed eighteen (18) month from date of shipment

**Total Cost for WWTP #1, #2 & #3= \$1,704,000.00**

**Bid Date 4/8/16**

**Note:**

1. Guarantee on all workmanship and materials.
2. Price includes proper supervision, materials and labor.
3. Price is good for 30 days and subject to repricing after 30 days.

Upon approval, please sign below and fax this document to our office at (352) 793-9074. Thank you!

Signature:

Date:



## PROPOSAL

March 28, 2016

To: Sanlando Utilities Corp.  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

Attn: Bryan Gongre

### Re: Wekiva WWTF Rehabilitation Project

Florida Environmental Construction, Inc. will provide all material, equipment and labor to complete each item as per your attached scope with the following notes and exceptions:

- All items being demolished or removed are to be disposed of onsite.
- Any additional items that are not covered in the scope that result in additional costs are not included.
- The following items are by others:
  - Draining and cleaning of tanks.
  - Concrete and grout work.
  - Start-up
  - Any bypassing of plants.
  - Taxes, permits and bonds.

**TOTAL PRICE      \$ 1,695,555.00**

Proposal valid for 30 days from above date.

Submitted by: Robert Lightsey  
Florida Environmental Const., Inc.

Date: 3/28/16

Accepted by: \_\_\_\_\_  
Sanlando Utilities Corp.

Date: \_\_\_\_\_

P.O. #: \_\_\_\_\_

Bus. Unit #: \_\_\_\_\_





## WEKIVA WWTF REHABILITATION PROJECT

**General Description:** Provide materials and equipment to rehab three (3) existing WWTP's. All WWTP's have a 116'-0" diameter outer wall and 60'-0" clarifier. Plants #1 & #3 have steel outer walls and Plant #2 is concrete.

### **SCOPE OF SUPPLY WWTP #3:**

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape. Provide and install all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc...
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install new aluminum handrails on outside of peripheral walkway.
- Provide and install 1/8" aluminum splash plate to go under the walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 40' outer wall trim angle, 3/8" x 3" x 3", rolled leg in to replace existing as needed in aeration 1 zone.
- Furnish and install new 304SS unistrut to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 6" x 1 1/2" to replace peripheral toe plates as required.
- Furnish and install 8" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 3" x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 1/2" steel pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 27' long section of walkway to replace section from concrete structure to plant #3. Include 3' x 3' walkway off to side for accessing and cleaning influent bar screen to be included. Existing aluminum grating will be reused.
- Furnish and install approx. 200' of aluminum handrails and toe plates to run from plant #3 to walkway between plant #1 & #2.
- Replace 8" walkway beams on walkway that ties into concrete structure and runs to interconnecting walkway between plants #1 and #2.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was used in the contact stabilization mode. Patch holes in bulkheads where trough went thru.



- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Repair gaps between outer wall and outer wall trim channel. Approx. 20' of welding required.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistrut.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 3 channels on walkway between plant 3# and interconnecting walkway between plant #1 & #2.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

### **SCOPE OF SUPPLY WWTP #2:**

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape
- Provide and install all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2 Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 4" diameter center shaft. Provide and install 1/8" aluminum splash plate to go under the peripheral walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Furnish and install 304SS unistrut to support water lines, chlorine lines conduit etc. as required.
- Furnish and install material to replace top 48" of two bulkheads, one between digester & aeration 3 and one between aeration 2 & 3.
- Furnish and install bent plate 6 1/2" x 1 1/2" to replace peripheral toe plates as required.
- Furnish and install 4" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 2"x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 1/2" pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 1 light support bracket. Locate same location as existing light.
- Furnish and install 3 new support brackets for aluminum influent trough where original brackets were installed.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was use in the contact stabilization mode.
- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistrut.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 10' pipe that is not being used in the CL2 zone.

- Install 1 new LED double headed light assembly. Same as on exiting new EQ tank.
- Sweep blast and paint interior with 16 mils coal tar epoxy. Paint top 4' of the interior concrete outer wall.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

#### **SCOPE OF SUPPLY WWTP #1:**

- Provide and install new steel weir trough and scum baffle assemblies with drop box and 18" thick 304SS weir plates, hardware and seal tape. Provide and stall all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install all new aluminum grating, handrails and toe plates on peripheral walkway.
- Furnish and install 3" x 3" x 1/4" angle for center support on peripheral walkway grating.
- Provide and install aluminum splash plate to go under the walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 100' outer wall trim angle, 3/8" x 3" x 3" angle rolled leg in to replace existing as needed in aeration 1 zone.
- Furnish and install approx. 100' of 18" x 1/4" steel plate to replace top of outer wall in aeration zone 1.
- Furnish and install 304SS unistrut to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 8" x 3" to replace peripheral toe plates as required
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 34' long section of walkway to replace section from Plant 2 to Plant 1.
- Furnish and install aluminum handrails and toe plates for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install new aluminum grating for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install 3" x 2" x 1/4" angle to support aluminum grating as required.
- Furnish and install 3 new support brackets for aluminum influent trough.
- Furnish and install additional support channels and kicker on bulkhead between aeration 3 and digester consisting of two 15" channels x 30' long and 20' of 12" I-beam to be used as a kicker. Plate and anchors to be included.
- Furnish and install new aluminum handrails on existing stairway.
- Furnish and install new aluminum grating and required support steel for 36" x 36" stairway landing.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was use in the contact stabilization mode.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistrut.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.

- Remove 54" x 54" opening rails and grating on walkway between plant and close walkway opening with new handrails.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

**GUARANTEE:**

- One (1) year from date of acceptance not to exceed eighteen (18) month from date of shipment.



ECO-2000, Inc.  
P.O. Box 2275  
Bushnell, FL 33513  
Phone #352-793-5060

## Estimate

Account #	Date	Estimate #
UC101	4/8/2016	ECO-3147

**Name / Address**

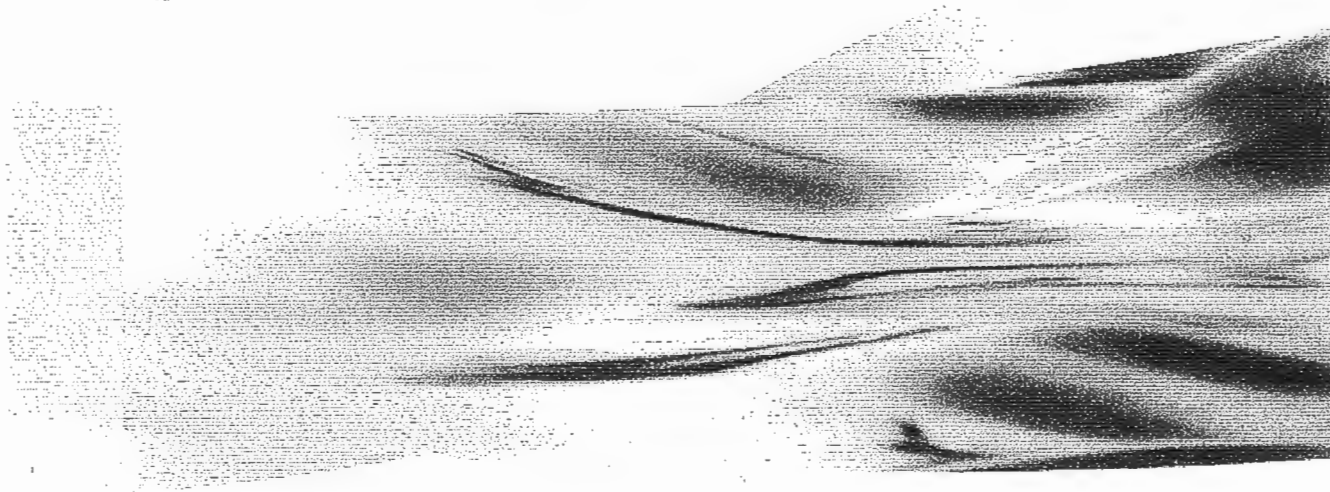
Utilities, Inc. of Florida  
Attn: Annette Zavilla, Accounts Payable  
2335 Sanders Road  
Northbrook, IL 60062

Description	Qty	Rate	Total
WEKIVA WWTP (WWTP #1, #2 & #3)	3	52,950.00	158,850.00
Cleaning of (each) tank; including 200 yards of grit, rag removal and pressure washing.			
***Includes labor, equipment & material**			
<b>Total</b>			<b>\$158,850.00</b>



**evoqua**  
WATER TECHNOLOGIES

# FINAL CONTRACT



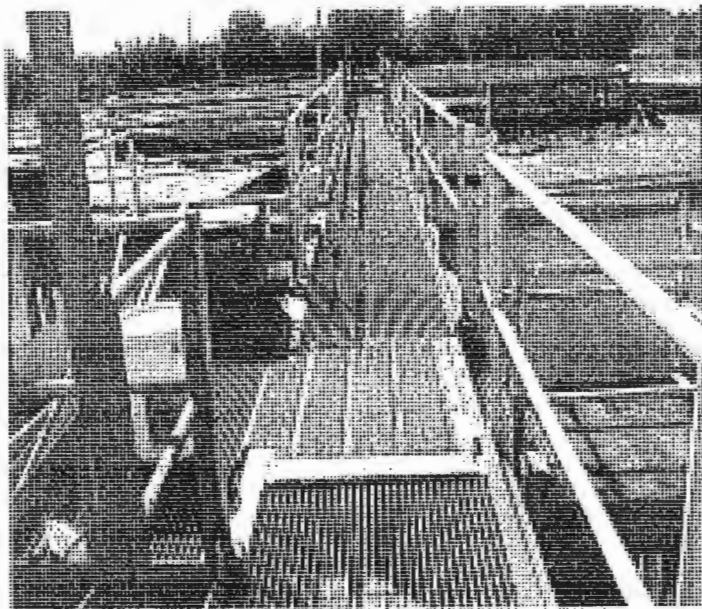
## WEKIVA WWTP'S #1, #2, #3 REHAB

Quotation #160124-A1 / May 2, 2016

Questions relative to this Quotation  
should be directed to Evoqua's area  
sales Representative:

Evoqua Water Technologies LLC

Earl Griner  
1828 Metcalf Ave.  
Thomasville, Ga. 31792  
229-403-1515  
william.griner@evoqua.com



1828 Metcalf Ave., Thomasville, GA 31792

+1 (229) 229-5733 (phone) +1 (229) 228-0312 (fax)

[www.evoqua.com](http://www.evoqua.com)



10/30/2018 10:11:09 AM 10/30/2018	Wekiva WWTP #1, #2, & #3 Rehab	10/30/2018 10:11:09 AM
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To: Bryan Gongre  
Job Name: Wekiva WWTP's #1, #2, & #3 Rehab

1) **SUMMARY:**

Evoqua Water Technologies, LLC proposes to deliver and install equipment/materials to rehab three (3) existing Sanitaire WWTP at the Wekiva WWTP site as applicable to the scope of supply described in this quotation and subject to the Clarifications/Exceptions and Standard Terms of Sale and Erection stated herein.

All WWTP's have a 116'-0" diameter outer wall and 60'-0" clarifier. Plants #1 & #3 have steel outer walls and Plant #2 is concrete. Components and materials will be delivered by Evoqua for installation by Evoqua. Evoqua is not responsible for the repair or structural design of the existing concrete.

All of the information set forth in this quotation (including drawings, designs and specifications) is confidential and/or proprietary and has been prepared solely for the recipient's use in considering the purchase of the equipment and/or services described herein. Transmission of all or any part of this information to others, or use by the recipient, for other purposes is expressly prohibited without Evoqua's prior written consent.

**PRICE SUMMARY:**

Evoqua's price includes only the specific items detailed in this quotation. Items not specifically identified herein are to be furnished by others. Please refer to the "Excluded Items" Section 8 of this quotation for a list of items to be furnished by others.

A) **UNIT PRICING:**

<u>ITEM &amp; DESCRIPTION:</u>	<u>PRICE</u>
(See following pages for further description)	
Material/Equipment, Demo, Installation, & Field Painting (All materials being removed to be disposed of onsite)	<u>\$1,526,000.00</u>

B) **FREIGHT:** Pricing is FOB shipping point with standard freight allowed to the job site. Our price does not include any storage on the site.

C) **QUOTATION VALIDITY:** This quotation is valid for a period of sixty (60) days unless extended in writing by Evoqua.

D) **FIELD SERVICES:** N/A (start-up/training not required)

A) **SERVICE MANUALS:** Two (2) new service manuals to be provided for the new clarifier drive units, which are duplicate to WWTP #1 and for new supernatant pumps.

B) **ADDENDUMS:** None

E) **PAYMENT AND PRICE TERMS:** The terms of payment are net 30 in accordance with the following milestones:  
10% with signed agreement.  
90% progressive payments.

10/10/2016 10:00:00 AM	WEIRVIEWWWTP #2	19/0000 07/23/2016
SEARCHED		

Evoqua's prices are exclusive of any taxes unless expressly stated in this quotation. If this project is subject to sales or use tax, tariffs, import/ export fees, duties or any other government dues. The Purchaser shall be invoiced for taxes at the current rate of sales or use tax for the jobsite location, at the time of invoice issuance.

## 2) DRAWING AND SHIPMENT SCHEDULE:

Actual dates for equipment delivery will be provided after agreed upon schedule and fully executed purchase agreement. Evoqua will work closely with the Customer to provide delivery dates to meet the overall project schedule as possible.

Submittal Drawings: N/A

Submittal Drawing Reviews/Approvals: N/A

Estimated Shipment of Equipment: Within 16-18 weeks after final agreement by both parties and receipt of signed contract.

Estimated installation time: 6-7 weeks per plant

Estimate paint time: 6-7 weeks per plant

## 3) SCOPE of SUPPLY WWTP #3

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape.
- Provide and install all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install new aluminum handrails on outside of peripheral walkway.
- Provide and install 1/8" aluminum splash plate to go under the walkway.

Page 3 of 16

PROJECT/LOCATION: 100024/36	WATERWORKS #2	DATE: 06/28/2016
	36-100024	

- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 40' outer wall trim angle, 3/8" x 3" x 3", rolled leg in to replace existing as needed in aeration 1 zone.
- Furnish and install new 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 6" x 1 1/2" to replace peripheral toe plates as required.
- Furnish and install 8" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 3" x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 1/2" steel pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 27' long section of walkway to replace section from concrete structure to plant #3. Include 3' x 3' walkway off to side for accessing and cleaning influent bar screen to be included. Existing aluminum grating will be reused.
- Furnish and install approx. 200' of aluminum handrails and toe plates to run from plant #3 to walkway between plant #1 & #2.
- Replace 8" walkway beams on walkway that ties into concrete structure and runs to interconnecting walkway between plants #1 and #2.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was used in the contact stabilization mode. Patch holes in bulkheads where trough went thru.
- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Repair gaps between outer wall and outer wall trim channel. Approx. 20' of welding required.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 3 channels on walkway between plant 3# and interconnecting walkway between plant #1 & #2.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

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#### 4) SCOPE OF SUPPLY WWTP #2:

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape.
- Provide and install all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 4" diameter center shaft.
- Provide and install 1/8" aluminum splash plate to go under the peripheral walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Furnish and install 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install material to replace top 48" of two bulkheads, one between digester & aeration 3 and one between aeration 2 & 3.
- Furnish and install bent plate 6 1/2" x 1 1/2" to replace peripheral toe plates as required.
- Furnish and install 4" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 2"x 2" x 1/4" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 1/2" pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 1 light support bracket. Locate same location as existing light.
- Furnish and install 3 new support brackets for aluminum influent trough where original brackets were installed.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was use in the contact stabilization mode.



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- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 10' pipe that is not being used in the CL2 zone.
- Install 1 new LED double headed light assembly. Same as on exiting new EQ tank.
- Sweep blast and paint interior with 16 mils coal tar epoxy. Paint top 4' of the interior concrete outer wall.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

##### 5) SCOPE OF SUPPLY WWTP #1:

- Provide and install new steel weir trough and scum baffle assemblies with drop box and 18" thick 304SS weir plates, hardware and seal tape.
- Provide and install all new 2 1/2" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install all new aluminum grating, handrails and toe plates on peripheral walkway.
- Furnish and install 3" x 3" x 1/4" angle for center support on peripheral walkway grating.
- Provide and install aluminum splash plate to go under the walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 100' outer wall trim angle, 3/8" x 3" x 3" angle rolled leg in to replace existing as needed in aeration 1 zone.



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- Furnish and install approx. 100' of 18" x 1/4" steel plate to replace top of outer wall in aeration zone 1.
- Furnish and install 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 8" x 3" to replace peripheral toe plates as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 34' long section of walkway to replace section from Plant 2 to Plant 1.
- Furnish and install aluminum handrails and toe plates for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install new aluminum grating for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install 3" x 2" x 1/4" angle to support aluminum grating as required.
- Furnish and install 3 new support brackets for aluminum influent trough.
- Furnish and install additional support channels and kicker on bulkhead between aeration 3 and digester consisting of two 15" channels x 30' long and 20' of 12" I-beam to be used as a kicker. Plate and anchors to be included.
- Furnish and install new aluminum handrails on existing stairway.
- Furnish and install new aluminum grating and required support steel for 36" x 36" stairway landing.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx. 100' of trough that was use in the contact stabilization mode.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 54" x 54" opening rails and grating on walkway between plant and close walkway opening with new handrails.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

QUOTATION NO. 160124-A1	Waterwall P&ID, 1/2	DATE: 04/23/2016
Erection		

#### 6) ERECTION SCOPE:

Evoqua proposes to furnish labor, equipment and expendable materials to erect the equipment purchased on Evoqua Proposal Number 160124-A1.

- Customer is responsible to having the tanks drained and clean before Evoqua arrives on site.
- Evoqua is responsible for offloading the equipment supplied by Evoqua.
- All materials and equipment being removed by Evoqua during demolition to be disposed of on site.
- Evoqua is responsible for installing supplied accessories and/or equipment by normal fabrication and welding procedures.
- Evoqua is responsible for providing the necessary construction equipment for erection (crane, welding machines, cutting equipment, etc.).
- Work hours by Evoqua Water Technologies LLC at the site shall be as determined by Evoqua Water Technologies LLC. The purchaser shall not define working hours, number of work days per week or prohibit Evoqua Water Technologies LLC from working evenings, weekends, holidays, etc., when deemed to be advisable by Evoqua Water Technologies LLC. General Terms and Conditions for Erection Work document is included as part of this proposal.

**NOTE:** There may be other items in need of repair that are not known at this time. Evoqua will give customer a quote for any additional repairs before work is to be done.

#### GAURANTEE:

- One (1) year from date of acceptance not to exceed eighteen (18) month from date of shipment.

#### 7) CLARIFICATIONS /EXCEPTIONS:

The equipment specified herein is Evoqua's standard equipment offering. Quotation is subject to the following clarifications:

Article, Section	CLARIFICATIONS / EXCEPTIONS
	The scope of supply and pricing are based on EVOQUA standard equipment selection, wage rates, standard terms of sale and warranty terms.

Variations from Evoqua's standard Terms and Conditions of Sale and the Clarifications/Exceptions identified above can be negotiated on an individual, as needed basis prior to award of contract. However, please note that this proposal

QUOTATION NO. 16012016	WERVA/WP/PS-25, 22	DATE: 03/23/2016
	#28016	

is expressly conditioned upon: (i) acceptance by the Owner or Contractor of the Terms and Conditions of Sale and the Clarifications/Exceptions as described within this proposal, without modification or addition, or a mutually agreed upon set of commercial and technical terms; and (ii) Evoqua's satisfactory completion of an anti-corruption due diligence review of the purchaser.

**8) EXCLUDED ITEMS:**

Evoqua's price includes only those items listed in this Quotation. Therefore, the items listed below will not be supplied by Evoqua:

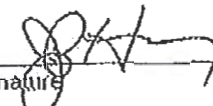
- Concrete or grout work
- Submittals
- Start-up other than new clarifier drives and supernatant pumps.
- Bypassing of plants during rehab
- Interconnection field piping of any kind
- Drain valves
- Any work on blowers
- Draining and cleaning of tanks
- Disinfection equipment
- Field conduit and wiring
- Any items not attached to the plant
- Taxes, Permits, Bonds
- Any other equipment or items not expressly mentioned in this proposal

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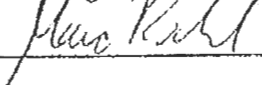
Quotation Submitted by Evoqua Water Technologies, LLC: James Knisely

Signature below indicates acceptance of this quotation, including the Standard Terms of Sale attached hereto.

Accepted by Buyer:

  
 Signature  
James P. Hoy  
 Printed Name  
PRESIDENT  
 Title  
5/19/2016  
 Date

Acknowledged by Seller: Evoqua Water Technologies, LLC

  
 Signature  
Marc Rachl  
 Printed Name  
VP & General Manager  
 Title  
5/20/16  
 Date

Buyer Address

Utilities Inc of Florida - Sanlando  
 200 Weathersfield Avenue  
 Altamonte Springs, FL 32714



QUOTATION NO. 16042441	Warve WWT-PC #1, #2, #3 Rehab	DATE: 07/23/2016
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**EVOQUA WATER TECHNOLOGIES LLC**  
**Standard Terms of Sale**

1. **Applicable Terms.** These terms govern the purchase and sale of equipment, products, related services, leased products, and media goods if any (collectively herein "Work"), referred to in Seller's proposal ("Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is expressly conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.
2. **Payment.** Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation specifically provides otherwise, freight, storage, insurance and all taxes, levies, duties, tariffs, permits or license fees or other governmental charges relating to the Work or any incremental increases thereto shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. If Buyer claims a tax or other exemption or direct payment permit, it shall provide Seller with a valid exemption certificate or permit and indemnify, defend and hold Seller harmless from any taxes, costs and penalties arising out of same. All payments are due within 30 days after receipt of invoice. Buyer shall be charged the lower of 1 1/2% interest per month or the maximum legal rate on all amounts not received by the due date and shall pay all of Seller's reasonable costs (including attorneys' fees) of collecting amounts due but unpaid. All orders are subject to credit approval by Seller. Back charges without Seller's prior written approval shall not be accepted.
3. **Delivery.** Delivery of the Work shall be in material compliance with the schedule in Seller's Documentation. Unless Seller's Documentation provides otherwise, delivery terms are ExWorks Seller's factory (Incoterms 2010). Title to all Work shall pass upon receipt of payment for the Work under the respective invoice. Unless otherwise agreed to in writing by Seller, shipping dates are approximate only and Seller shall not be liable for any loss or expense (consequential or otherwise) incurred by Buyer or Buyer's customer if Seller fails to meet the specified delivery schedule.
4. **Ownership of Materials and Licenses.** All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data, software and other documents or information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any such material solely for Buyer's use of the Work. Buyer shall not disclose any such material to third parties without Seller's prior written consent. Buyer grants Seller a non-exclusive, non-transferable license to use Buyer's name and logo for marketing purposes, including but not limited to, press releases, marketing and promotional materials, and web site content.
5. **Changes.** Neither party shall implement any changes in the scope of Work described in Seller's Documentation without a mutually agreed upon change order. Any change to the scope of the Work, delivery schedule for the Work, any Force Majeure Event, any law, rule, regulation, order, code, standard or requirement which requires any change hereunder shall entitle Seller to an equitable adjustment in the price and time of performance.
6. **Force Majeure Event.** Neither Buyer nor Seller shall have any liability for any breach or delay (except for breach of payment obligations) caused by a Force Majeure Event. If a Force Majeure Event exceeds six (6) months in duration, the Seller shall have the right to terminate the Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment for work performed prior to the date of termination. "Force Majeure Event" shall mean events or circumstances that are beyond the affected party's control and could not reasonably have been easily avoided or overcome by the affected party and are not substantially attributable to the other party. Force Majeure Event may include, but is not limited to, the following circumstances or events: war, act of foreign enemies, terrorism, riot, strike, or lockout by persons other than by Seller or its sub-suppliers, natural catastrophes or (with respect to on-site work), unusual weather conditions.
7. **Warranty.** Subject to the following sentence, Seller warrants to Buyer that the (i) Work shall materially conform to the description in Seller's Documentation and shall be free from defects in material and workmanship and (ii) the Services shall be performed in a timely and workmanlike manner. Determination of suitability of treated water for any use by Buyer shall be the sole and exclusive responsibility of Buyer. The foregoing warranty shall not apply to any Work that is specified or otherwise demanded by Buyer and is not manufactured or selected by Seller, as to which (i) Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller and (ii) Seller shall have no other liability to Buyer under warranty, tort or any other legal theory. The Seller warrants the Work, or any components thereof, through the earlier of (i) eighteen (18) months from delivery of the Work or (ii) twelve (12) months from initial operation of the Work or ninety (90) days from the performance of services (the "Warranty Period"). If Buyer gives Seller prompt written notice of breach of this warranty within the Warranty Period, Seller shall, at its sole option and as Buyer's sole and exclusive remedy, repair or replace the subject parts, re-perform the Service or refund the purchase price. Unless otherwise agreed to in writing by Seller, (i) Buyer shall be responsible for any labor required to gain access to the Work so that Seller can assess the available remedies and (ii) Buyer shall be responsible for all costs of installation of repaired or replaced Work. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Seller's warranty is conditioned on Buyer's (a) operating and maintaining the Work in accordance with Seller's instructions, (b) not making any unauthorized repairs or alterations, and (c) not being in default of any payment obligation to Seller. Seller's warranty does not cover (i) damage caused



AGREEMENT NO. 160122011	WARRANTY PERIOD #2	DATE 01/18/2013
	AS RATED	

conditioned on Buyer's (a) operating and maintaining the Work in accordance with Seller's instructions, (b) not making any unauthorized repairs or alterations, and (c) not being in default of any payment obligation to Seller. Seller's warranty does not cover (i) damage caused by chemical action or abrasive material, misuse or improper installation (unless installed by Seller) and (ii) media goods (such as, but not limited to, resin, membranes, or granular activated carbon media) once media goods are installed. THE WARRANTIES SET FORTH IN THIS SECTION 7 ARE THE SELLER'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO THE LIMITATION OF LIABILITY PROVISION BELOW. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

8. **Indemnity.** Seller shall indemnify, defend and hold Buyer harmless from any claim, cause of action or liability incurred by Buyer as a result of third party claims for personal injury, death or damage to tangible property, to the extent caused by Seller's negligence. Seller shall have the sole authority to direct the defense of and settle any indemnified claim. Seller's indemnification is conditioned on Buyer (a) promptly, within the Warranty Period, notifying Seller of any claim, and (b) providing reasonable cooperation in the defense of any claim.

9. **Assignment.** Neither party may assign this Agreement, in whole or in part, nor any rights or obligations hereunder without the prior written consent of the other party; provided, however, the Seller may assign its rights and obligations under these terms to its affiliates or in connection with the sale or transfer of the Seller's business and Seller may grant a security interest in the Agreement and/or assign proceeds of the agreement without Buyer's consent.

10. **Termination.** Either party may terminate this agreement, upon issuance of a written notice of breach and a thirty (30) day cure period, for a material breach (including but not limited to, filing of bankruptcy, or failure to fulfill the material obligations of this agreement). If Buyer suspends an order without a change order for ninety (90) or more days, Seller may thereafter terminate this Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment for work performed, whether delivered or undelivered, prior to the date of termination.

11. **Dispute Resolution.** Seller and Buyer shall negotiate in good faith to resolve any dispute relating hereto. If, despite good faith efforts, the parties are unable to resolve a dispute or claim arising out of or relating to this Agreement or its breach, termination, enforcement, interpretation or validity, the parties will first seek to agree on a forum for mediation to be held in a mutually agreeable site. If the parties are unable to resolve the dispute through mediation, then any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this agreement to arbitrate, shall be determined by arbitration in Pittsburgh, Pennsylvania before three arbitrators who are lawyers experienced in the discipline that is the subject of the dispute and shall be jointly selected by Seller and Buyer. The arbitration shall be administered by JAMS pursuant to its Comprehensive Arbitration Rules and Procedures. The Arbitrators shall issue a reasoned decision of a majority of the arbitrators, which shall be the decision of the panel. Judgment may be entered upon the arbitrators' decision in any court of competent jurisdiction. The substantially prevailing party as determined by the arbitrators shall be reimbursed by the other party for all costs, expenses and charges, including without limitation reasonable attorneys' fees, incurred by the prevailing party in connection with the arbitration. For any order shipped outside of the United States, any dispute shall be referred to and finally determined by the International Center for Dispute Resolution in accordance with the provisions of its International Arbitration Rules, enforceable under the New York Convention (Convention on the Recognition and Enforcement of Foreign Arbitral Awards) and the governing language shall be English.

12. **Export Compliance.** Buyer acknowledges that Seller is required to comply with applicable export laws and regulations relating to the sale, exportation, transfer, assignment, disposal and usage of the Work provided under this Agreement, including any export license requirements. Buyer agrees that such Work shall not at any time directly or indirectly be used, exported, sold, transferred, assigned or otherwise disposed of in a manner which will result in non-compliance with such applicable export laws and regulations. It shall be a condition of the continuing performance by Seller of its obligations hereunder that compliance with such export laws and regulations be maintained at all times. BUYER AGREES TO INDEMNIFY AND HOLD SELLER HARMLESS FROM ANY AND ALL COSTS, LIABILITIES, PENALTIES, SANCTIONS AND FINES RELATED TO NON-COMPLIANCE WITH APPLICABLE EXPORT LAWS AND REGULATIONS.

13. **LIMITATION OF LIABILITY.** NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE WORK, INCLUDING WITHOUT LIMITATION ANY LIABILITY FOR ALL WARRANTY CLAIMS OR FOR ANY BREACH OR FAILURE TO PERFORM ANY OBLIGATION UNDER THE CONTRACT, SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE WORK. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

14. **Rental Equipment / Services.** Any leased or rented equipment ("Leased Equipment") provided by Seller shall at all times be the property of Seller with the exception of certain miscellaneous installation materials purchased by the Buyer, and no right or property interest is transferred to the Buyer, except the right to use any such Leased Equipment as provided herein. Buyer agrees that it shall not pledge, lend, or create a security interest in, part with possession of, or relocate the Leased Equipment. Buyer shall be responsible to maintain the Leased Equipment in good and efficient working order. At the end of the Initial term specified in the order, the terms shall automatically renew for the identical period unless canceled in writing by Buyer or Seller not sooner than three (3) months nor later than



1. Equipment location and staking, including plant orientation, influent and effluent location, is the responsibility of the Purchaser and/or his engineer.
2. The elevation of equipment above or below grade must be determined by the Purchaser and/or his engineer and entered upon the approved drawings. Purchaser is responsible for establishing benchmark at site for Evoqua Waste Technologies erection crew.
3. Purchaser agrees to provide a clear level work area at least 35 feet wide around the periphery of the erection site. Prior to starting erection, any obstructions in the work area, such as excavations, overhead lines, fences, trees, shrubbery, etc., shall be removed by and at the expense of the Purchaser. The Purchaser shall keep the site properly drained and free from surface water during erection, and until the work has been completed and accepted. The site and site access shall be capable of supporting a crane up to and including 50-ton capacity and other erection equipment. Any fill or dewatering necessary to accomplish the above, or additional costs of oversized or special equipment required due to poor site conditions, will be the responsibility of the Purchaser. Site leveling, grading, etc., after erections, shall be the responsibility of the Purchaser. Evoqua Water Technologies shall be responsible for the clean up and removal of trash, scrap materials, etc., left from Evoqua Water Technologies erection work.
4. Purchaser agrees to provide site access and site working area capable of supporting the delivery trucks (70-75,000 pounds gross weight). Purchaser agrees to maintain site access and working area, daily if required, to allow Evoqua Water Technologies erection crew to perform work during all weather conditions. Should Evoqua Water Technologies have to stop work and return to the site when access and/or work area permits or experience delays due to the site and site access being unsuitable for work due to Purchaser's failure to prepare and/or maintain the above, the Purchaser agrees to compensate Evoqua Water Technologies for cost incurred and agrees Evoqua Water Technologies shall be indemnified and held harmless from all loss or damages resulting from delays of job progress, that are directly or indirectly a result of the Purchaser's responsibility.
5. Evoqua Water Technologies' erection personnel are non-union and all work will be by non-union personnel. In case of interference in erection work due to labor problems by persons not employed by Evoqua Water Technologies, or the imposition of requirements concerning labor, working conditions, wage rates, etc., which were not clearly defined prior to Evoqua Water Technologies acceptance of the erection job, Evoqua Water Technologies shall have the right to stop work without prejudice until such interference or condition is satisfactorily removed or resolved. If additional costs are incurred by Evoqua Water Technologies due to such conflict the Purchaser hereby agrees to reimburse Evoqua Water Technologies for the additional costs incurred.

Evoqua Water Technologies is an Equal Opportunity Employer and shall comply with government regulations pertaining to fair and equal employment.

Work hours by Evoqua Water Technologies at the site shall be as determined by Evoqua Water Technologies. The purchaser shall not define working hours, number of work days per week or prohibit Evoqua Water Technologies from working evenings, weekends, holidays, etc., when deemed to be advisable by Evoqua Water Technologies.

## 6. INSURANCE



QUOTATION NO. 160124-01	WORK: WWT2-33, 32, 33-34	DATE: 04/28/2016
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During the period of erection of the equipment contemplated herein, Evoqua Water Technologies will maintain the following insurance: Per Englewood Water District Insurance requirement, (copy attached).

- (a) Workmen's Compensation and Employer's Liability.
- (b) Occupational Disease.
- (c) Contractual Liability.
- (d) Public Liability Insurance, Personal Injury and Property Damage.
- (e) Automobile Liability, Personal Injury and Property Damage.

Any insurance required by Purchaser in addition to the above mentioned coverage shall not be considered to be included in the purchase price as set forth herein and shall be charged to the Purchaser.

**7. UNLOADING OF EQUIPMENT:** Evoqua Water Technologies is responsible for unloading of equipment which is to be erected by Evoqua Water Technologies. Purchaser is responsible for unloading any equipment or accessories shipped to Purchaser for his installation. (Such as base channels to be embedded in concrete foundation by Purchaser, blowers or other accessories to be installed by Purchaser).

**8. PURCHASER ACCEPTANCE OF ERECTED EQUIPMENT:** When erection of the equipment nears completion Evoqua Water Technologies shall give Purchaser seventy-two hours verbal notice that the equipment shall be ready for inspection and acceptance. Purchaser agrees to provide, on seventy-two hours notice, an authorized agent to meet at the site with Evoqua Water Technologies erection personnel, to inspect the erected equipment, and accept same for/or on behalf of the Purchaser. Any backordered items not installed at that time shall be listed on the acceptance agreement with written understanding that Evoqua Water Technologies is responsible for installing the subject equipment. Backordered items shall be received by the Purchaser at the "Backordered Address" previously provided and stored until Evoqua Water Technologies installation is scheduled.

**9. PREPARATION FOR START-UP OF ERECTED EQUIPMENT:** Upon completion of erection Evoqua Water Technologies shall inform the Purchaser that the erected equipment is ready to be placed in service. The Purchaser shall make all preparations for which he is responsible, such as: Influent and effluent connections, installation of the required electrical power supply and circuitry, filling tanks with clean water for testing and start-up, etc. If any deficiencies in materials or workmanship by Evoqua Water Technologies are discovered by the Purchaser while performing this work, the Purchaser shall immediately notify Evoqua Water Technologies so that corrective action can be taken. Evoqua Water Technologies is responsible for providing start-up supervision as defined in the equipment proposal. For scheduling purposes, ten days notice of desired start-up date is required.

**10. SECURITY AND PROTECTION OF EQUIPMENT:** Purchaser is responsible for security of equipment stored on his site after delivery prior to arrival of Evoqua Water Technologies crews to begin erection; and for any backordered material delivered to Purchaser after departure of Evoqua Water Technologies erection crews. Evoqua Water Technologies shall not be responsible for deterioration, theft, vandalism or damage to equipment which is stored on site or left inoperative after installation due to delays in start-up. Purchaser agrees to be responsible for security and protection of such equipment.

**11. BACKCHARGES:** Evoqua Water Technologies will accept no backcharges for any reason which has not been approved prior to any work being performed in writing by an authorized manager of the company. Purchaser agrees to contact Evoqua Water Technologies and receive written authorization prior to incurring any costs related to backcharges.

**12. LICENSES AND PERMITS:** Unless specifically stated in Evoqua Water Technologies erection proposal, Evoqua Water Technologies is not responsible for licenses, permits or fees required to perform the work defined in this proposal.

**13. (a)** Evoqua Water Technologies shall not be liable for delays due to: (1) causes beyond its reasonable control or (2) acts of God, acts of customer, prerequisite work by others, acts of civil or military authority, government priorities, fires, strikes or other labor disturbances, floods, epidemics, war riot,

01/10/17 10:10:10	01/10/17 10:10:10	01/10/17 10:10:10
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delays in transportation or (3) inability to obtain or delay in obtaining, due to causes beyond its reasonable control, suitable labor, materials, or facilities. In the event of any such delay; the time of performance shall be extended for a period equal to the time lost by reason of the delay.

(b) In the event Evoqua Water Technologies is delayed by acts of the customer or by prerequisite work by other contractors or suppliers of the customer, Evoqua Water Technologies shall be entitled to an equitable price adjustment in addition to extension of the time of performance.

14. Evoqua Water Technologies reserves the right to subcontract any of the work to one or more subcontractors.

15. Purchaser shall protect all gauges, controls and factory finishes from the painting operation. Purchaser shall be responsible for the removal and reinstallation of any assembly that affects the painting operation.





Evoqua Water Technologies LLC  
2607 N. Grandview Blvd, Ste 130  
Waukesha, WI 53188

RECEIVED  
JUN 13 2016

3005868  
PO# 214966  
Repla 226568

Phone: 262-547-0141  
Fax: 262-521-8586  
E-mail: [michael.karls@evoqua.com](mailto:michael.karls@evoqua.com)

Invoice # 902665233  
Date: 6/9/2016  
PO # Signed Proposal 160124-A1  
Customer ID: 1010924  
Evoqua # 2033/000739  
Tax Rate 6.00%  
1% on first \$5,000

Bill To: UTILITIES INC OF FLORIDA - SANLANDO  
ATTN: ACCOUNTS PAYABLE  
200 WEATHERSFIELD AVE  
ALTAMONTE SPRINGS, FL 32714

SHIP TO: WEKIVA WWTP  
144 LEDBURY DRIVE  
LONGWOOD, FL 32779

## INVOICE

Agreed Invoicing Milestones	Tax Y/N	Scheduled Value	Previous	Tax	This Period	Tax	Balance To Finish
<b>Equipment</b>							
10 With Signed Agreement	Y	\$56,083.50		\$0.00	\$56,083.50	3,415.01	\$0.00
Plant #1	Y	\$182,912.40		\$0.00		-	\$182,912.40
Plant #2	Y	\$150,811.20		\$0.00		-	\$150,811.20
Plant #3	Y	\$171,027.90		\$0.00		-	\$171,027.90
<b>Installation</b>							
10 With Signed Agreement	N	\$51,046.40		\$0.00	\$51,046.40	-	\$0.00
Plant #1	N	\$165,355.20		\$0.00		-	\$165,355.20
Plant #2	N	\$137,178.90		\$0.00		-	\$137,178.90
Plant #3	N	\$156,883.50		\$0.00		-	\$156,883.50
<b>Field Paint</b>							
10 With Signed Agreement	N	\$45,470.10		\$0.00	\$45,470.10	-	\$0.00
Plant #1	N	\$137,953.80		\$0.00		-	\$137,953.80
Plant #2	N	\$119,823.30		\$0.00		-	\$119,823.30
Plant #3	N	\$137,953.80		\$0.00		-	\$137,953.80
<b>Startup</b>							
Plant #1	N	\$4,500.00		\$0.00		-	\$4,500.00
Plant #2	N	\$4,500.00		\$0.00		-	\$4,500.00
Plant #3	N	\$4,500.00		\$0.00		-	\$4,500.00
TOTALS		\$1,526,000.00	\$0.00	\$0.00	\$152,600.00	\$3,415.01	\$1,373,400.00

Total	\$156,015.01
-------	--------------

Terms: Balance due in 30 days.

NEW REMITTANCE - CHECK		NEW REMITTANCE - ACH/WIRE	
EVOQUA WATER TECHNOLOGIES		J.P. Morgan Chase Bank, N.A.	
28563 Network Place		Account: Evoqua Water Technologies	
Chicago, IL 60673-1285		New York, NY 10004	
		Acct# 603148011	
Amount Due: \$156,015.01		ABA# 044000037	
		Swift Code: CHASUS33	

These commodities are sold for domestic consumption. Any export of these commodities must be made in compliance with applicable U.S. Laws.

These commodities, technology or software (items) were exported from the United States in accordance with the Export Administration

Regulations Diversion contrary to US law is prohibited. These items are not to be used directly or indirectly in prohibited nuclear chemical/biological or missile weapons activities.



ECO-2000, Inc.  
P.O. Box 2275  
Bushnell, FL 33513  
Phone #352-793-5060

## Estimate

Account #	Date	Estimate #
UC101	4/8/2016	ECO-3147

**Name / Address**

Utilities, Inc. of Florida  
Attn: Annette Zavilla, Accounts Payable  
2335 Sanders Road  
Northbrook, IL 60062

Description	Qty	Rate	Total
WEKIVA WWTP (WWTP #1, #2 & #3)	3	52,950.00	158,850.00
Cleaning of (each) tank; including 200 yards of grit, rag removal and pressure washing.			
***Includes labor, equipment & material**			
<b>Total</b>			<b>\$158,850.00</b>

3006123  
PO# 214968  
Recpt 234594

APPLICATION AND CERTIFICATE FOR PAYMENT AIA DOCUMENT G702  
TO OWNER: Utilities Inc. of Florida PROJECT: Wekiva WWTP

Page 1 of 2 Pages

APPLICATION NO: 1  
PERIOD TO: 9/12/16  
PROJECT NOs:

Distribution to:  
OWNER: Utilities Inc of Florida  
ARCHITECT  
CONTRACTOR

FROM CONTRACTOR: ECO-2000, Inc. VIA ARCHITECT:  
CONTRACT FOR: Wekiva WWTP

CONTRACT DATE:

**CONTRACTOR'S APPLICATION FOR PAYMENT**

Application is made for payment as shown below in connection with the Contract.  
Continuation Sheet AIA Document G703, is attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payment received from the Owner, and that current payment

1. ORIGINAL CONTRACT SUM \$158,850.00  
2. Net Change by Change Orders \$0.00  
3. CONTRACT SUM TO DATE (Line 1 + 2) \$158,850.00  
4. TOTAL COMPLETED & STORED TO DATE \$10,590.00

(Column G on G703)

**5. RETAINAGE:**

\$ \$1,059.00

(Columns D + E on G703)

b. 0% of Stored Material \$0

(Column F on G703)

Total Retainage (line 5a + 5b or

\$1,059.00

Total in Column I of G703)

6. TOTAL EARNED PLUS RETAINAGE \$9,531.00

(Line 4 less Line 5 Total)

**7. LESS PREVIOUS CERTIFICATES FOR**

(Line 6 from prior Certificate)

**8. CURRENT PAYMENT DUE**

\$9,531.00

**9. BALANCE TO FINISH INCLUDING RETAINAGE**

(Line 3 less Line 6) \$149,319.00

CHANGE ORDER	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by		
Total approved this month		
TOTALS		
NET CHANGES by		

CONTRACTOR: ECO-2000, Inc.

By:

Date:

9/12/16

State of: FLORIDA

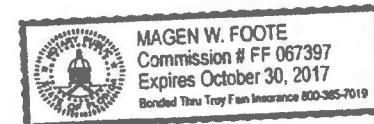
County of: SUMTER

Subscribed and sworn to before

me this 12 day of September 20 16

Notary Public: M. Maguire

My Commission Expires: 10/30/17



**ARCHITECT'S CERTIFICATE FOR PAYMENT**

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief, the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED: \$9,531.00

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform to the amount certified.)

ARCHITECT:

By:

Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

## Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT,

Containing Contractor's signed Certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column 1 on Contracts where variable retainage for line items may apply.

APPLICATION

APPLICATION DATE

PERIOD DATE

ARCHITECT'S PROJECT NO.

A	B	C	D	E	F	G	H	I	
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G ÷ C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D - E)	THIS PERIOD					
	<u>WWTP #1</u>								
1	Mobilization	\$ 10,590.00		\$ 10,590.00	0	\$ 10,590.00	100%	\$ -	\$ 10,590.00
2	Cleaning	\$ 42,360.00		\$ -	0	\$ -	0%	\$ 42,360.00	
	<u>WWTP #2</u>								
3	Mobilization	\$ 10,590.00		\$ -	0	\$ -	0%	\$ 10,590.00	
4	Cleaning	\$ 42,360.00		\$ -	0	\$ -	0%	\$ 42,360.00	
	<u>WWTP #3</u>								
5	Mobilization	\$ 10,590.00		\$ -	0	\$ -	0%	\$ 10,590.00	
6	Cleaning	\$ 42,360.00		\$ -	0	\$ -	0%	\$ 42,360.00	
				\$ -				\$ -	
7	<u>Grand Totals</u>	\$ 158,850.00	\$ -	\$ 10,590.00	0.00	\$ 10,590.00	0	\$ 148,260.00	\$ 1,059.00

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-31**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



**ADD-CHANGE FORM****New Project or Budget Change?**

New Project

**Assigned Project #:**

None

**Requested by:**

Michael Wilson

**Date:**

12/1/2015

Project Manager / Area Manager

**Project Name:**

TV 401 8th Ave GSM Ph 2

**Company:**

241

Tierra Verde Utilities Inc

**Business Unit:**

241100

Tierra Verde Utilities Inc

**Project Owner:**

Patrick Flynn

**BU Type:**

SP

**Project Manager:**

Michael Wilson

**Budget Owner / RVP:**

John Hoy

03

**Start Date:**

2/1/2016

Q1 2016

**Region:**

Florida

04

**Estimated End Date:**

3/30/2016

Q1 2016

**State:**

FL

**Project Type:**

EH&amp;S Compliance

**Will project replace/retire any assets:**

Yes

**Previously Requested:****This Request:**

\$47,300

**Still to be Requested:****Total Project Budget:**

\$47,300

**Description:**

Phase 1: In February 2015 approximately 28LF of 8" gravity sewer pipe failed and required replacement with new 8" SDR 26 pipe. Upon excavation and installation of the new pipe a belly was found further downstream of the new pipe resulting in the additional replacement of 15LF of the original piping. Change Order #1 was executed at that time. The first phase of this project resulted in a total of 43LF of pipe replacement.

Phase 2: As a result of the excavation done in Phase 1, it was determined that additional pipe had failed and would require removal and replacement. However, the presence of several large sea grape trees generated a delay before proceeding with the next phase. Phase 2 was initiated in February 2016 to correct the remaining issues found with this gravity line. In Phase 2, approximately 40LF of 8" VCP gravity main was replaced with 8" SDR 26 PVC sewer pipe including the dewatering of the site, the removal and replacement of a customer's driveway, and restoration of the affected customer's landscaping materials.

**Timeline Considerations:**

Project needs to be completed prior to the start of the rainy season (approximately mid-May) to minimize risk of sewage spills related to blockages during wet weather events.

**Inter-dependant Project**

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Engineering project number

(If applicable)

**Justification and Benefits:**

Phase 1: A portion of the original 8" VCP gravity main on 8th Avenue has had previous blockages and backups occur due to a partially collapsed section of the 8" sewer pipe. Video inspection of the main from both the upstream and downstream manholes indicated that a 43 foot long section of pipe had failed. At some point in the past and before the Utility's ownership of the system, a cured in place pipe (CIPP) repair was made to this section of gravity sewer main made up of both VCP and PVC pipe materials. However, the full extent of the pipe failure could not be determined until actually excavating and exposing the pipe because a video camera would not pass through the pipe.

Phase 2: While completing the initial work described as Phase 1, the original VCP pipe was found to have failed both upstream and downstream of the original point repair over a distance of an additional 40LF. The excavation of this additional pipe was delayed due to conflicts with a customer's extensive landscaping. After having developed a plan to address the conflicts within the project envelope, Phase 2 will include the removal and replacement of the 40LF of failed pipe, which will restore the hydraulic capacity of the pipe, establish a proper slope from manhole to manhole, allow the pipe segment to be fully cleaned and video inspected from end to end, and provide reliable sewer service to the affected customer without fear of a backup or sewer spill.

**Risk Evaluation**

Without correcting this issue, sanitary sewer overflow and possible sewer backups into residences likely will occur. Tierra Verde is an island community on the gulf coast of Florida south of St. Petersburg. The collapsed sewer main is within 200 yards of gulf waters. In the event of a sewer spill, the raw wastewater would likely be conveyed directly to gulf waters since the stormwater conveyance system in the area does not contain retention ponds.

**Alternatives Considered:**

Previous attempts to ream out the CIPP pipe so as to allow another attempt at CIPP techniques was unsuccessful.

**Technical Review Summary:**

The initial project scope and cost did not exceed the minimum requirements for technical review by the technical review team. However, as the deficiencies became visible after excavation the project grew in scope to require additional project elements and expenditures.

**Capital Plan**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	47,300				
Project Spend in Current Plan	47,300				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	47,300	47,300	47,300	47,300	47,300

(if applicable)

**O&M Cost Impact B/(W)**

--	--	--	--	--	--

**Financial Justification****Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

Served	Rate Payers
(4.4)	(4.4)
1,044	1,044

**Utility Financial Impact**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(690)	(1,183)	(1,183)	(1,183)	(1,183)
Under-recovery on capital B/(W)	(2,039)	(3,407)	(3,318)	(3,230)	(3,141)
Net EBIT Impact B/(W)	(2,729)	(4,590)	(4,501)	(4,412)	(4,324)

**Timing and Supporting Information on Rate Recovery**

The project will be identified as a pro forma in the upcoming consolidated UIF filing that is expected to occur no later than 9/30/16.

**Regulatory Plan Implications**

Capital recovery will occur following the completion of the upcoming consolidated UIF rate filing.

**Assumptions**



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Environmental Equipment Sales, Inc.	\$47,300	Yes
2			
3			

### Component:

### Amount

Value Bid Elements

47,300.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Phase 1, EESI

Total Project Budget

47,300.00

should match Total Budget in General Information

Object Account(s) to which project will be closed:

1350

Sewer Gravity Main/Manholes

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

The cost of the work done in Phase 1 did not exceed the minimum threshold that would trigger the requirement to solicit at least three bids. The selected contractor has completed many projects for the Utility previously with satisfactory results and within budget. The Phase 2 cost is in line with costs incurred for similar work. The same contractor will be used in Phase 2 as was used in Phase 1 because EESI is already familiar with the soil and groundwater conditions, restoration requirements and mobilization/demobilization to and from the site.



**EAM Prime Review**

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

**Technical Peer Review**

Review Sponsored by

Date Held

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

No technical peer review required; project budget does not exceed the minimum threshold for technical peer review.

**FP&A Review**

Review Completed by

Christie Kincaid

Date:

5/4/2016

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

**Approvals**

Applicable?

Regional Manager:

Michael A. Wilson

Date:

2/25/2016

☒

VP Operations:

Patrick C. Flynn

Date:

2/25/2016

☒

President:

Date:

☐**Approval or Re-Direction Comments**

This project's cost does not exceed the minimum threshold that requires technical review. The project scope is straightforward.



# ENVIRONMENTAL EQUIPMENT SALES, INC.

Site Development/Water & Wastewater Systems/Underground Utilities/Industrial Construction

Post Office Box 2459

Riverview, FL 33568

(813) 677-6877 Phone

Page No 1

of 1 Pages

PROPOSAL #1413

State Certified General Contractor #CG-C061731 (813) 677-2605 Fax

PROPOSAL SUBMITTED TO:		PHONE 407-468-3268	DATE November 19, 2014
NAME: <del>MID-COUNTY UTILITIES, INC.</del> Tierra Verde Utilities, Inc.		JOB NAME: Sewer Repair and Replacement of Collapsed 10" Sewer Main	
STREET: 200 Weathersfield Avenue		STREET: 4TH STREET WEST @ 8TH AVE. N, SE QUADRANT	
CITY/STATE/ZIP: Altamonte Springs, FL 32714		CITY: Tierra Verde	STATE: FL
CONTACT NAME: Michael Wilson, Regional Manager		EMAIL: MAWilson@uiwater.com	

We propose to furnish all labor, material and equipment necessary to repair and replace the collapsed 10" sewer <sup>force</sup>main gravity  
Work to Proceed as Follows:

- 1) Videotape existing conditions prior to starting work and restored conditions after work is completed
- 2) Locate existing utilities.
- 3) Set up Maintenance of Traffic.
- 4) Set up well points for dewatering using Quiet-Pak Diesel Pump.
- 5) Provide bypass via on-site tank truck. Assumes 1 day use only. Bypass waste to be disposed of into UI system at location determined by UI personnel.
- 6) Provide trench shoring.
- 7) Provide pavement protection with tracking plywood.
- 8) Excavate down to sewer main repair.
- 9) Replace 28lf of 10" PVC SDR35 sewer main and attach to existing clay pipe with Fernco adapters.
- 10) Stabilize sewer pipe and excavation by encasing in FDOT 57 pipe bedding material.
- 11) Backfill, compact and grade.
- 12) Sod with either Bahia or St. Augustine, whichever requested by UI
- 13) Cleanup and demobilization.

## NOTES

- 1) Any adjustments/removal or location/relocation of existing utilities or landscaping, which may conflict with proposed work not included
- 2) Does not include any jet rodding, cleaning, vacuuming or video inspection of any sewer lines
- 3) Does not include any permits or permit fees
- 4) Does not include any engineering, surveying, or geotechnical testing/materials testing
- 5) This proposal is based on all onsite cut material being useable for structural/pavement areas and trench backfill
- 6) Does not include any work in pavement or pavement restoration
- 7) Does not include any disposal of hazardous, contaminated, or unsuitable materials.

QUOTE-Work to be completed in accordance with the above specifications for the sum of: Twenty-Nine Thousand Nine Hundred Seventy-Three Dollars and 00/100 (\$29,973.00) with Terms: Net 10 Days.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above and estimate. All agreements are contingent upon strikes, accidents or delays at beyond our control. This proposal subject to acceptance within 15 days and is void thereafter at the option of the undersigned. Delinquency charges of 1.5% per month will apply for all delinquent invoices. Collection fees for delinquent accounts, including attorney/collection agency fees and expenses incurred by Environmental Equipment Sales Inc. are the responsibility of the customer.

## ACCEPTANCE OF PROPOSAL

The above prices, specifications, and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

ACCEPTED

Date: 2/3/15

Signature: 

PATRICK C FLYNN, V.P.  
Print Name & Title

Date: 2/4/15

Signature: 

Brian K. Spicher, President  
Environmental Equipment Sales Inc.

## CHANGE ORDER

Project:	Tierra Verde Sewer Repair	Change Order Number	1	OWNER	XX
	4th Street West and 8th Avenue North	Date:	February 4, 2015	ENGINEER	
	SE Quadrant			CONTRACTOR	XX
	Tierra Verde, FL	Contract for	Sewer Repair	FIELD	
Contractor	Environmental Equipment Sales, Inc.	Contract Date:	February 3, 2015	OTHER	
	PO Box 2459, Riverview FL 33568	Project Numbers:			

Upon setting of well points and excavating sewer line determined there is approximately 5-7" dip in the existing gravity sewer line where a repair has been attempted before. This will require us to go an additional 15 feet underneath the driveway to the edge of the tree line to attach new pipe to in proper condition at more appropriate elevation

### THE CONTRACT IS CHANGED AS FOLLOWS:

	AMOUNT:
1) Cut and remove 16'x11 section of concrete driveway at 401 8th Avenue North and dispose of off site	\$900.00
2) Install additional 20' of wellpoint header and points to run overnight	\$1,525.00
3) Excavate down to existing pipe under driveway and determine if at proper elevation and sufficient condition to connect new pipe <i>per</i> from West Manhole to that point for a total of 43 feet of new gravity sewer installation.	\$2,700.00
4) Backfill and compact Form and pour 3000psi 4" thick concrete driveway reinforced with commercial fiber Strip forms fine grade and resod	\$2,275.00

The Original Contract Sum was \$29,973.00  
 The net change by previously authorized Change Orders \$0.00  
 The Contract Sum prior to this Change Order was \$29,973.00  
 The Contract Sum will be increased by this Change Order in the amount of \$7,400.00  
 The new Contract Sum including this Change Order will be \$37,373.00

<del>Mid-County Utilities, Inc.</del> <b>TIERRA VERDE UTILITIES, INC.</b>	Environmental Equipment Sales, Inc.
OWNER	CONTRACTOR
200 Weathersfield Avenue	PO Box 2459
Altamonte Springs, FL 32714	Riverview, FL 33568
ADDRESS	ADDRESS
<b>PATRICK C. FLYNN</b>	Brian Spicher, President
Name/Title	Name/Title
<i>Patrick C. Flynn</i>	<i>Brian Spicher</i>
Signature	Signature
<b>2/4/15</b>	<b>2/4/15</b>
Date	Date

# ENVIRONMENTAL EQUIPMENT SALES, INC.

P.O. Box 2459  
RIVERVIEW, FL 33569  
PHONE: (813) 677-6877  
FAX: (813) 677-2605

Water&WW Systems Underground Utilities Site Work Industrial Construction  
State Certified General Contractor CG-C061731

INVOICE #79046  
February 6, 2015

Attn: Accounts Payable  
UTILITIES, INC  
2335 Sanders Road  
Northbrook, IL 60062

RE: Tierra Verde – Sewer Repair and Replacement of Collapsed Sewer Main  
PO#179443 BU#241100

Ordered by: Patrick Flynn  
Tierra Verde Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

2/6/15: Completion of work per Contract #1413 signed 2/3/15 and Change Order #1 signed 2/4/15.  
Obtained Fire Hydrant Water Meter and located existing utilities  
Setup MOT and Wellpoint Dewatering System  
Provided Bypass via onsite tank truck  
Sawcut, removed and disposed of concrete driveway  
Excavated and replaced damaged sewer line  
Stabilized sewer pipe with #57 pipe bedding material  
Backfilled, compacted and graded disturbed areas  
Formed and poured concrete driveway  
Installed St. Augustine sod on disturbed areas

**TOTAL AMOUNT DUE THIS INVOICE: \$37,373.00**  
**TERMS: Due Upon Receipt**

*Brian G. Smith*  
2/6/15



# ENVIRONMENTAL EQUIPMENT SALES, INC.

Site Development/Water & Wastewater Systems/Underground Utilities/Industrial Construction

Page No. 1  
of 1 Pages  
PROPOSAL #1431-2

Post Office Box 2459  
Riverview, FL 33568  
(813) 677-6877 Phone

State Certified General Contractor #CG-C061731 (813) 677-2605 Fax

PROPOSAL SUBMITTED TO:		PHONE 407-468-3268	DATE February 18, 2016
NAME TIERRA VERDE UTILITIES, INC.		JOB NAME Sewer Repair and Replacement of Damaged 8" Gravity Sewer	
STREET 200 Weathersfield Avenue		STREET 401 8 <sup>th</sup> Avenue North	
CITY/STATE/ZIP Altamonte Springs, FL 32714		CITY Tierra Verde	STATE FL 33715
CONTACT NAME Michael Wilson, Regional Manager		EMAIL MAWilson@uiwater.com	

We propose to furnish all labor, material and equipment necessary to repair and replace 40lf of damaged and/or collapsed 8" sewer gravity. This pipeline replacement is to replace collapsed or failing section of pipe and we are installing the new pipe to existing pipe elevations and gradient that we have to work with. It is not a total replacement and we cannot guarantee that the existing pipe has adequate gradient and/or is of proper size for the application.

#### Work to Proceed as Follows:

- 1) Videotape existing conditions prior to starting work and restored conditions after work is completed.
- 2) Locate existing utilities.
- 3) Set up Maintenance of Traffic.
- 4) Set up well points for dewatering using Quiet-Pak Diesel Pump.
- 5) Provide bypass via on-site tank truck. Assumes 1 day use only. Bypass waste to be disposed of into UI system at location determined by UI personnel.
- 6) Provide trench shoring. Provide pavement protection with tracking plywood.
- 7) Sawcut and remove section of concrete driveway at 401 8<sup>th</sup> Avenue to allow for sewer replacement. Dispose of off-site.
- 8) Remove Sea Grape Trees between driveway and on the West side of driveway. Store on empty lot on the corner of Monte Christo Boulevard and 4<sup>th</sup> Street for reinstallation upon completion.
- 9) Excavate down to damaged gravity sewer.
- 10) Replace 40lf of 8" PVC SDR26 gravity sewer and attach to existing clay pipe with Fernco adapters.
- 11) Stabilize sewer pipe and excavation by encasing in FDOT 57 pipe bedding material.
- 12) Backfill, compact and grade.
- 13) Repair or replace sprinkler system components to re-establish coverage of area. Replace sod in affected areas.
- 14) Form and pour 3000psi 4" thick concrete driveway reinforced with commercial fiber. Strip forms.
- 15) Reinstall removed Sea Grape Trees.
- 16) Cleanup and demobilization.

#### NOTES

- 1) Any adjustments/removal or location/relocation of existing utilities, which may conflict with proposed work not included.
- 2) Does not include any jet rodding, cleaning, vacuuming or video inspection of any sewer lines.
- 3) Does not include any permits or permit fees.
- 4) Does not include any engineering, surveying, or geotechnical testing/materials testing.
- 5) This proposal is based on all on-site cut material being useable for structural/pavement areas and trench backfill.
- 6) Does not include any work in pavement or pavement restoration.
- 7) Does not include any disposal of hazardous, contaminated, or unsuitable materials.

QUOTE-Work to be completed in accordance with the above specifications for the sum of: Forty-Seven Thousand Three Hundred Dollars and 00/100 (\$47,300.00) with Terms: Net 10 Days.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be submitted only upon written orders, and will become an extra charge over and above and estimate. All agreements are contingent upon strikes, accidents, or delays at beyond our control. This proposal subject to acceptance within 15 days and is void thereafter at the option of the undersigned. Delinquency charges of 1 1/2% per month will apply for all delinquent invoices. Collection fees for delinquent accounts, including attorney/collection agency fees and expenses incurred by Environmental Equipment Sales, Inc. are the responsibility of the customer.

#### ACCEPTANCE OF PROPOSAL

The above prices, specifications, and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

ACCEPTED/  
Date: 2/29/16

Signature: [Signature]  
MICHAEL WILSON / REG. MGR  
Print Name & Title

Date: 2/29/16

Signature: [Signature]  
Brian K. Spicher, President  
Environmental Equipment Sales, Inc.

Water&WW Systems/Underground Utilities/Site Work/Industrial Construction  
State Certified General Contractor CG-C061731

**INVOICE #79153**

March 8, 2016

Attn: Accounts Payable  
UTILITIES, INC  
2335 Sanders Road  
Northbrook, IL 60062

RE: Tierra Verde – Sewer Repair and Replacement of Damaged 8" Gravity Sewer  
PO# BU#

Ordered by: Michael Wilson  
Tierra Verde Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

3/8/16: Completion of work per Contract #1431-2 signed 2/29/16.  
Obtained Fire Hydrant Water Meter and located existing utilities  
Setup MOT and Wellpoint Dewatering System  
Provided Bypass via onsite tank truck  
Remove Sea Grape Trees and store for reinstallation  
Sawcut, removed and disposed of concrete driveway  
Excavated and replaced damaged sewer line  
Stabilized sewer pipe with #57 pipe bedding material  
Backfilled, compacted and graded disturbed areas  
Formed and poured concrete driveway  
Reinstalled Sea Grape Trees  
Installed St Augustine sod on disturbed areas

**TOTAL AMOUNT DUE THIS INVOICE: \$47,300.00**  
**ERMS: Due Upon Receipt**



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-32**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

## New Project or Budget Change?

New Project

## Assigned Project #

## Requested by:

Bryan K. Gongre

## Date:

8/16/2016

Project Manager / Area Manager

## Project Name:

Crescent Hts WM Replacement

## Company:

252

Utilities Inc of Florida

## Business Unit:

252123

Crescent Heights

## Project Owner:

Patrick C. Flynn

## BU Type:

WP

## Project Manager:

Bryan K. Gongre

## Budget Owner / RVP:

John Hoy

03

## Start Date:

9/5/2016

Q3 2016

## Region:

Florida

04

## Estimated End Date:

3/31/2017

Q1 2017

## State:

FL

## Project Type:

Maintenance

## Will project replace/retire any assets:

Yes

## Previously Requested:

## This Request:

\$1,805,518

## Still to be Requested:

## Total Project Budget:

\$1,805,518

## Description:

Remove and replace the following items that are located within the Orange County right-of-way:

- A. 1,800 LF of 2" galvanized water main
- B. 10,700 LF of 4" asbestos cement water main
- C. 1,600 LF of 6" asbestos cement water main
- D. 6 each 2" gate valves
- E. 19 each 4" gate valves
- F. 3 each 6" gate valves
- G. 5 each 2" blow offs
- H. 293 water services
- I. 140 driveway sections
- J. 150 LF of sidewalk

Production of a right-of-way survey, an as-built survey, right-of-way permitting and asset tables that are in conformance with GIS nomenclature and format are included.

CEI services will be utilized to support right-of-way permitting, production of as-built drawings, field inspections during construction and contract bidding services.

## Timeline Considerations:

This project is one of six water main replacement projects in Seminole County and one in Orange County that are similar in scope and timing. Engineering services are completed and all permits excluding Seminole and Orange County right-of-way have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.

## Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

2015082

(If applicable)

**Justification and Benefits:**

The Crescent Heights water system serve 284 connections and was originally built in 1959 and is thus 57 years old. The system is comprised of Asbestos Cement (AC) and galvanized iron pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat and bronze body wheel handle gate valves that are damaged and difficult to operate. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. Over time organic growth has occurred within the distribution system contributing to water quality complaints, particularly within the areas that have galvanized pipe material. There are no fire hydrants or significant flushing points to adequately maintain the system. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR of which the first two methods elevate the risk of a potential break.

Orange County requires the Utility to remove all existing water mains located within their right-of-way except mains under county roads that can be grouted in place. All AC pipe must be removed and disposed of by a certified asbestos abatement contractor in a Class I landfill.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With new gate valves in place at the appropriate location and configuration, staff will be able to isolate portions of the distribution systems when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance. This project includes an as built survey with an asset table that can be used to upload into the ESRI platform to provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers customer. Naturally occurring organics in the groundwater, when combined with chlorine, will elevate TTHM/HAA5 levels. By replacing the water mains, gate valves and service connections reliability will be greatly improved and water quality will be improved.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response, property damage, and restoration.

**Technical Review Summary:**

Project reviewed by CPRT on 8/25/2016. No comments or revisions.

<b>Capital Plan</b>	<b>Yr 1</b>	<b>Yr 2</b>	<b>Yr 3</b>	<b>Yr 4</b>	<b>Yr 5</b>
Proposed Project Spend	1,805,518				
Project Spend in Current Plan	500,000				
Variance	(1,305,518)	-	-	-	-
CIAC Collected					
Net Rate Base	1,805,518	1,805,518	1,805,518	1,805,518	1,805,518
<b>O&amp;M Cost Impact B/(W)</b>					

(if applicable)

**Financial Justification**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

<b>Served</b>	<b>Rate Payers</b>
(655)	(655.12)
329	329

**Utility Financial Impact**

	<b>Yr 1</b>	<b>Yr 2</b>	<b>Yr 3</b>	<b>Yr 4</b>	<b>Yr 5</b>
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(45,138)	(90,276)	(90,276)	(90,276)	(90,276)
Under-recovery on capital B/(W)	(33,007)	(125,258)	(118,487)	(111,716)	(104,946)
Net EBIT Impact B/(W)	(78,145)	(215,534)	(208,763)	(201,992)	(195,222)

**Timing and Supporting Information on Rate Recovery**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Regulatory Plan Implications**
**Assumptions**



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$2,017,553	No
2	Central Florida Tapping	\$1,795,660	Yes
3	ECO-2000	\$2,020,541	No

### Component:

### Amount

Value Bid Elements

1,795,660.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

CPH Engineers (CEI, As Built, ROW Permits)

9,858.00

Total Project Budget

1,805,518.00

Object Account(s) to which project will be closed:

1125

1130

Trans & Distr Mains

Service Lines

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

General Comments:





## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/29/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Bryan K. Gongre Date: 8/25/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/25/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/29/2016 ☒

President:  Date:  ☐

### Approval or Re-Direction Comments

CENTRAL Florida TAPPING

**Utilities Inc. of Florida**

Crescent Heights System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	50,633.00	50,633.00
2	Preconstruction Video	LS	1	2,700.00	2,700.00
3	Project Layout and Utility Locates	LS	1	52,900.00	52,900.00
4	Utility Maintenance of Traffic	LS	1	21,885.00	21,885.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	293	1,155.00	338,415.00
6	Furnish & Install 2" WM	LF	1,800	26.00	46,800.00
7	Furnish & Install 4" WM	LF	10,700	31.00	331,700.00
8	Furnish & Install 6" WM	LF	1,600	53.00	84,800.00
9	Furnish & Install Fittings	TON	3	5,900.00	17,700.00
10	Furnish & Install 2" Gate Valve	EA	6	795.00	4,770.00
11	Furnish & Install 4" Gate Valve	EA	19	1,190.00	22,610.00
12	Furnish & Install 6" Gate Valve	EA	3	1,350.00	4,050.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	3,570.00	3,570.00
14	Furnish & Install 2" Blow Off	EA	5	1,765.00	8,825.00
15	Remove and Replace Driveway	EA	140	2,010.00	281,400.00
16	Remove and Replace Sidewalk	LF	150	56.00	8,400.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	13,300	35.00	465,500.00
18	Remove Valve	EA	16	240.00	3,840.00
	<b>Subtotal</b>				1,750,498.00
	<b>Permit Fee (2.58%)</b>				45,162.85
	<b>Total Estimated Cost</b>				1,795,660.85

**Utilities Inc. of Florida**

Crescent Heights System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	95000.00	95000.00
2	Preconstruction Video	LS	1	12500.00	12500.00
3	Project Layout and Utility Locates	LS	1	10500.00	10500.00
4	Utility Maintenance of Traffic	LS	1	35000.00	35000.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	293	1550.00	454,150.00
6	Furnish & Install 2" WM	LF	1,800	25.25	45,450.00
7	Furnish & Install 4" WM	LF	10,700	27.50	294,250.00
8	Furnish & Install 6" WM	LF	1,600	35.85	57,360.00
9	Furnish & Install Fittings	TON	3	7500.00	22,500.00
10	Furnish & Install 2" Gate Valve	EA	6	1100.00	6,600.00
11	Furnish & Install 4" Gate Valve	EA	19	1250.00	23,750.00
12	Furnish & Install 6" Gate Valve	EA	3	1750.00	5,250.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	6500.00	6,500.00
14	Furnish & Install 2" Blow Off	EA	5	2000.00	10,000.00
15	Remove and Replace Driveway	EA	140	3200.00	448,000.00
16	Remove and Replace Sidewalk	LF	150	25.00	3,750.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	13,300	32.50	432,250.00
18	Remove Valve	EA	16	250.00	4,000.00
	<b>Subtotal</b>				1,916,810.00
	<b>Permit Fee (2.58%)</b>				50,743.70
	<b>Total Estimated Cost</b>				2,017,553.70

**Utilities Inc. of Florida**

Crescent Heights System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	\$145,857.00	\$145,857.00
2	Preconstruction Video	LS	1	\$10,600.00	\$10,600.00
3	Project Layout and Utility Locates	LS	1	\$77,564.00	\$77,564.00
4	Utility Maintenance of Traffic	LS	1	\$60,104.00	\$60,104.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	293	\$1,200.00	\$351,600.00
6	Furnish & Install 2" WM	LF	1,800	\$24.00	\$43,200.00
7	Furnish & Install 4" WM	LF	10,700	\$34.00	\$363,800.00
8	Furnish & Install 6" WM	LF	1,600	\$40.00	\$64,000.00
9	Furnish & Install Fittings	TON	3	\$2,000.00	\$6,000.00
10	Furnish & Install 2" Gate Valve	EA	6	\$650.00	\$3,900.00
11	Furnish & Install 4" Gate Valve	EA	19	\$1,523.00	\$28,937.00
12	Furnish & Install 6" Gate Valve	EA	3	\$1,850.00	\$5,550.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	\$5,400.00	\$5,400.00
14	Furnish & Install 2" Blow Off	EA	5	\$1,890.00	\$9,450.00
15	Remove and Replace Driveway	EA	140	\$2,000.00	\$280,000.00
16	Remove and Replace Sidewalk	LF	150	\$15.00	\$2,250.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	13,300	\$38.00	\$505,400.00
18	Remove Valve	EA	16	\$300.00	\$4,800.00
	<b>Subtotal</b>				\$1,968,412.00
	<b>Permit Fee (2.58%)</b>				\$52,129.96
	<b>Total Estimated Cost</b>				\$2,020,541.96

## UIF Water Main System Improvements Bid Results

<b>Area 1</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

<b>Area 2</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

<b>Area 3</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00



SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 **THIS AGREEMENT**, made this 26th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Central Florida Tapping & Construction Services, Inc., doing business as a \_\_\_\_\_ and hereinafter called the Contractor.

1.02 **The Owner and Contractor agree as follows:**

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the Bonds, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Crescent Heights WM Replacement

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 180 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of One million seven hundred ninety five thousand six hundred sixty dollars & 85/100's Dollars (\$ 1,795,660.85). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

H. Engineer

The Project has been designed by CPH, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Central Florida Tapping & Construction Services, Inc.  
Name of Firm

Richard E Bullington  
By (Signature)

(SEAL)

Richard Bullington, President  
Printed Name and Title

ATTEST:

M. R. W.  
By (Signature)

Nicholas T. Ralston  
Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner

Bryan K. Gongre  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

Rebecca Hark  
By (Signature)

Rebecca Hark Admin  
Printed Name and Title

END OF SECTION



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees



for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
<b>Tasks 4</b>	
Bidding	\$1,500.00
<b>Total</b>	<b>\$60,665.00</b>

5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

**Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services are not included in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

**Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
<b>Total Contract</b>		<b>\$75,665.00</b>





CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is written over a light blue rectangular background.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**

Utilities Inc. of Florida

\_\_\_\_\_

**Date:** \_\_\_\_\_

#### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Raw Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

**Survey Fee Area 1: \$2,375.00**  
**Survey Fee Area 2: \$3,675.00**

## SURVEY SITE EXHIBIT

### Area 1



### Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.



Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stoppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement**  
**Oranole Road, Orlando, FL**  
**Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

#### SCOPE OF WORK:

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
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**Licenses:** PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
**Certifications:** EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician



6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.

**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:                   \$3,696.00**

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5)   \$1,920.00**

\$438.00 Asphalt/Concrete/Each (anticipate 0)

**M.O.T. (SSMC) (Required for roadway test holes)**

\$576.00 per Lane Closure/Day Rate

\$768.00 per Lane Closure/Night Rate

**Permitting: (If required for roadway test holes)**

\$94.00 per hour + cost of permit

**Police Officer: (Required)**

\$50.00 per hour (estimate 0)

**Anticipated Project Total:   \$5,616.00**

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards  
Utility Division Project Manager

MSS:gac

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
Fax: 407-292-0141  
Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

The person executing this document **must indicate** that he/she is a Principal and/or Corporate Officer.

If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.

**ACCEPTED BY:**

/

Principal / or Corporate Officer	TITLE	Printed Name	Date
----------------------------------	-------	--------------	------

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-33**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

PCF-33 UIF-Orangewood WM Replacement

Held for future use



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-34**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

PCF-34 UIF-Summertree Well Abandonment

Held for future use

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-35**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

## New Project or Budget Change?

New Project

## Assigned Project #

## Requested by:

Michael Wilson

## Date:

8/25/2016

Project Manager / Area Manager

## Project Name:

Lake Tarpon WM Replacements

## Company:

252

Utilities Inc of Florida

## Business Unit:

252128

Lake Tarpon W

## Project Owner:

Patrick C. Flynn

## BU Type:

WP

## Project Manager:

Michael Wilson

## Budget Owner / RVP:

John Hoy

03

## Start Date:

9/15/2016

Q3 2016

## Region:

Florida

04

## Estimated End Date:

3/30/2017

Q1 2017

## State:

FL

## Project Type:

Maintenance

## Will project replace/retire any assets:

Yes

## Previously Requested:

## This Request:

\$41,125

## Still to be Requested:

\$758,875

## Total Project Budget:

\$800,000

## Description:

The initial request is to establish a budget for engineering services in support of the following construction elements:

Remove and replace the following items:

- A. 4,800 LF of 4" asbestos cement water main
- B. 5,000 LF of 6" asbestos cement water main
- C. 7,600 LF of 8" asbestos cement water main
- D. 5 each 2" blow offs
- E. 344 water services
- F. 11 Hydrants
- G. 46 each 6" Gate Valves

Engineering activities include design, DEP permitting, right-of-way survey, as-built survey, right-of-way permitting, and asset tables that are in conformance with GIS nomenclature and format.

CEI services will be utilized to support right-of-way permitting, production of as-built drawings, a limited number of field inspections during construction and contract bidding services.

## Timeline Considerations:

This project is one of two water main replacement projects in Pinellas County and Pasco County that are similar in scope and timing.

Engineering services are completed and all permits have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.

## Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

(If applicable)

**Justification and Benefits:**

The Lake Tarpon water system serves 513 connections and was originally built in 1967. Thus, it is nearly 50 years old. The mains in this system are comprised of Asbestos Cement (AC) pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. We have previously replaced approximately 320 services and approximately 7,000 LF of 2" mains. We will continue to utilize the meters and dual check valves that are less than 10 years old and currently in use. This system consistently exceeds 20% unaccounted for water loss due to the AC piping deficiencies as well as possibly from undocumented irrigation taps. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR, of which the first two methods elevate the risk of a potential break.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With new gate valves in place at the appropriate location and configuration, staff will be able to isolate portions of the distribution systems when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform once it is established that will provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers. Naturally occurring organics in the groundwater, when combined with chlorine, will elevate TTHM/HAA5 levels above MCL's. By replacing the remaining original water mains, gate valves and service connections, reliability will be greatly improved, water quality will be improved and TTHM/HAA5 levels should be reduced.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response activities outside of normal business hours, property damage, and restoration costs.

**Technical Review Summary:**



**Capital Plan**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	800,000				
Project Spend in Current Plan	800,000				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	800,000	800,000	800,000	800,000	800,000

(if applicable)

**O&M Cost Impact B/(W)**

--	--	--	--	--	--

**Financial Justification**

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

Served	Rate Payers
513	

**Utility Financial Impact**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)					
Under-recovery on capital B/(W)					
Net EBIT Impact B/(W)					

**Timing and Supporting Information on Rate Recovery**

This project is a proforma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Regulatory Plan Implications**

**Assumptions**





## Approvals

### EAM Prime Review

Review Completed by  Date:

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by  Date Held

Approval to proceed Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by  Date:

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager:  Date:  ☒

VP Operations:  Date:  ☒

President:  Date:  ☒

### Approval or Re-Direction Comments

**ADD-CHANGE FORM****New Project or Budget Change?**

New Project

**Assigned Project #** 2016091**Requested by:** Michael Wilson  
Project Manager / Area Manager**Date:** 8/25/2016**Project Name:** Lake Tarpon WM Replacements**Company:** 252 Utilities Inc of Florida**Business Unit:** 252128 Lake Tarpon W**BU Type:** WP**Project Owner:** Patrick C. Flynn**Budget Owner / RVP:** John Hoy 03**Project Manager:** Michael Wilson**Region:** Florida 04**Start Date:** 9/15/2016 Q3 2016**State:** FL**Estimated End Date:** 3/30/2017 Q1 2017**Project Type:** Maintenance**Will project replace/retire any assets:** Yes**Previously Requested:** \$41,125**This Request:** \$1,048,321**Still to be Requested:** \$0**Total Project Budget:** \$1,089,446**Description:**

The initial request is to establish a budget for engineering services in support of the following construction elements:

Construct the following items:

- A. 4,800 LF of 4" asbestos cement water main
- B. 5,000 LF of 6" asbestos cement water main
- C. 7,600 LF of 8" asbestos cement water main
- D. 5 each 2" blow offs
- E. 344 water services
- F. 11 Hydrants
- G. 46 each 6" Gate Valves

Engineering activities include design, DEP permitting, right-of-way survey, as-built survey, right-of-way permitting, and asset tables that are in conformance with GIS nomenclature and format.

CEI services will be utilized to support right-of-way permitting, production of as-built drawings, a limited number of field inspections during construction and contract bidding services.

**Timeline Considerations:**

This project is one of two water main replacement projects in Pinellas County and Pasco County that are similar in scope and timing. Engineering services are completed and all permits have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.

**Inter-dependant Project**

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

(If applicable)

**Justification and Benefits:**

The Lake Tarpon water system serves 513 connections and was originally built in 1967. Thus, it is nearly 50 years old. The mains in this system are comprised of Asbestos Cement (AC) pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. We have previously replaced approximately 320 services and approximately 7,000 LF of 2" mains. We will continue to utilize the meters and dual check valves that are less than 10 years old and currently in use. This system consistently exceeds 20% unaccounted for water loss due to the AC piping deficiencies as well as possibly from undocumented irrigation taps. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR, of which the first two methods elevate the risk of a potential break.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With new gate valves in place at the appropriate location and configuration, staff will be able to isolate portions of the distribution systems when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform once it is established that will provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers. Naturally occurring organics in the groundwater, when combined with chlorine, will elevate TTHM/HAA5 levels above MCL's. By replacing the remaining original water mains, gate valves and service connections, reliability will be greatly improved, water quality will be improved and TTHM/HAA5 levels should be reduced.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response activities outside of normal business hours, property damage, and restoration costs.

**Technical Review Summary:**





## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	1,089,446				
Project Spend in Current Plan	1,000,000				
Variance	(89,446)	-	-	-	-
CIAC Collected					
Net Rate Base	1,089,446	1,089,446	1,089,446	1,089,446	1,089,446

(if applicable)

### O&M Cost Impact B/(W)

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### Financial Justification

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(255.50)	\$ (255.50)
513	513.00

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(13,618)	(54,472)	(54,472)	(54,472)	(54,472)
Under-recovery on capital B/(W)	(20,172)	(76,602)	(72,516)	(68,431)	(64,345)
Net EBIT Impact B/(W)	(33,790)	(131,074)	(126,989)	(122,903)	(118,818)

### Timing and Supporting Information on Rate Recovery

This project is a proforma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

### Regulatory Plan Implications

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Environmental Equipment Sales, Inc.	\$1,673,594	
2	Rowland, Inc.	\$1,048,321	Yes
3	Kimmins Contracting Corp. / Kaminga & Roodvoets, Inc.	No Bid	

### Component:

### Amount

Value Bid Elements

1,048,321.00 should match Amount Bid Received

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Kimley Horn Engineers (CEI, As-Built drawings, ROW permitting) 41,125.00

Total Project Budget

1,089,446.00 should match Total Budget on General Information

Object Account(s) to which project will be closed:

1125

Trans & Distr Mains

1130

Service Lines

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

Kimmins Construction Corp. and Kaminga Roodvoets Inc. were both provided bid packages and did not bid on this project.



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 9/2/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2016

Approval to proceed Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Phil Drennan Date: 9/19/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Michael Wilson Date: 9/2/2016 ☒

VP Operations: Patrick C. Flynn Date: 9/6/2016 ☒

President: John P. Hoy Date: 9/9/2016 ☒

### Approval or Re-Direction Comments



February 1, 2016

Mike Wilson  
Utilities Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Re: Professional Services Agreement for Lake Tarpon Distribution System  
Water Main Replacement  
Pinellas County, Florida

Dear Mr. Wilson:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc. of Florida ("Client") for providing design, permitting, and construction oversight services for the asbestos cement (AC) water main replacement within the Lake Tarpon service area.

#### **Project Understanding**

- A. The Client has requested a proposal to provide design, permitting, and construction oversight services for the replacement of 4-inch, 6-inch, and 8-inch AC water mains throughout the Lake Tarpon mobile home park. The total length of water main replacement is approximately 15,000-LF. A preliminary opinion of probable cost for the replacement is estimated at **\$725,000**, which includes a 10% contingency. This preliminary cost estimate is based on the total length of pipe, approximately 200 new water services, which the utility will provide the meter and meter box, and the existing AC water main water main to be grouted and abandoned in place.
- B. The Consultant conducted a meeting with the Client to review the proposed water main replacement options. Three options were provided by the Client. The water main replacement options were evaluated to consider constructability, cost, right-of-way constraints, and maintaining service during construction. Through our review, Option 2 appears to be the most cost effective option and is the basis for design for this proposal. The hand sketch of Option 2 is included for reference. The proposed water main locations are subject to change depending on actual field conditions observed in the site walkthrough. It is anticipated that all water mains will be placed within County right-of-way.
- C. The right-of-way within the Lake Tarpon service area is controlled by Pinellas County. It is assumed that there is sufficient right-of-way to construct the water main replacement improvements not requiring acquisition of additional easements.
- D. It is assumed that water main improvements beyond those shown on the aforementioned exhibit will not be required.

#### **Scope of Services**

##### Task 1 – Construction Plans and Specifications

- A. The Consultant will coordinate with the Client to obtain the available record drawings of the existing infrastructure. It is also understood the Pinellas County previously had performed some sewer improvements within the park, and the Consultant will coordinate with the County to try and obtain these drawings for review.
- B. A preliminary layout of the existing and proposed water main will be developed on a 24"x36" plot.



#### Information Provided By Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives.

- Service Area information
- Record Drawings

#### Responsibilities of Client

In addition to other responsibilities set out in this Agreement, the Client shall:

- Access to the Site

#### Fee and Expenses

Kimley-Horn will perform the services in Tasks 1 - 3 for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Consultant.

Task 1 Construction Plans and Specifications	\$25,125.00
Task 2 Permitting (Includes Fee)	\$3,500.00
Task 3 Bidding and Construction Services	\$12,500.00
Total Lump Sum Fee	\$41,125.00

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.



# Kimley»Horn

Utilities Inc. of Florida  
A Corporation

By:

Patrick C. Flynn

President/Vice President

2/28/16

(Date)

PATRICK C. FLYNN

(Print or Type Name)

pcflynn@uiwater.com

(Email Address)

Attest:

John P. Hoy

Secretary/Assistant Secretary

(Print or Type Name)

Client's Federal Tax ID:

36-2850786

Client's Business License No.:

UIF-Seminole Co. Lic # 2786

Client's Street Address: 200 Weathersfield Avenue

Altamonte Springs, FL 32714

Attachment – Request for Information

Attachment – Standard Provisions

**Request for Information**

*Please return this information with your signed contract*

## Client Identification

Full, Legal Name of Client	Utilities Inc. of Florida				
Mailing Address for Invoices	200 Weathersfield Avenue Altamonte Springs, FL 32714				
Contact for Billing Inquiries	Mike Wilson				
Contact's Phone and e-mail	(407) 468-3268 mawilson@uiwater.com				
Client is (check one)	Owner	<input checked="" type="checkbox"/>	Agent for Owner	<input type="checkbox"/>	Unrelated to Owner

### UIF Water Main System Improvements Bid Results

Area 1	CFT	TG	Eco
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

Area 2	CFT	TG	Eco
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

Area 3	CFT	TG	Eco
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00

**SECTION 00520**  
**AGREEMENT FORM**

**PART 1      GENERAL**

**1.01      THIS AGREEMENT**, made this 20<sup>th</sup> day of October, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Rowland Inc., whose principal and local address is Kevin Rowland; 6855 102<sup>nd</sup> Ave North Pineillas Park, FL 33782, hereinafter called the Contractor.

**1.02      The Owner and Contractor Agree as follows:**

**A.      Contract Documents**

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the Bonds, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

**B.      Scope of Work**

The Contractor shall perform all work required by the Contract Documents for the construction of the Lake Tarpon Water Main Replacement.

**C.      Contract Time**

The Contractor shall begin work after the issuance of a written Notice to Proceed from Owner and shall substantially complete the work within the Contract Time identified in Paragraphs 1.02.C.5 of the Bid Form, which is 150 calendar days. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

**D.      Liquidated Damages**

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not

00520-2

substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$1,000.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth (1/4) of the rate set forth above.

E. Contract Price

Lump Sum Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order, the Total Contract Price of One Million, Forty-eight Thousand, Three Hundred and Twenty-one Dollars and Zero Cents (\$ 1,048,321.00). Payments will be made to the Contractor based on the Lump Sum Bid amount, the Schedule of Values included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein, and subject to completion of the work, in accordance with the Contract Documents.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions. After review and acceptance from the Owner and Engineer, the Owner will provide payment for all stored materials.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. Upon substantial completion, the Owner will reduce retainage to 5%.

H. Engineer

The Project has been designed by Kimley-Horn and Associates, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Rowland Inc.

Name of Firm

K. D. Rowland  
By (Signature)

(SEAL)

Kevin D. Rowland, President  
Printed Name and Title

ATTEST:

Rick Mansfield  
By (Signature) **Rick Mansfield**  
**VP & CFO**  
**Rowland Inc.**  
Printed Name and Title

OWNER:

Utilities Inc. of Florida

Name of Owner

Patrick Flynn  
By (Signature)

(SEAL)

Patrick Flynn, Vice President  
Printed Name and Title

ATTEST:

Michael Wilson  
By (Signature)  
MICHAEL WILSON - Reg. MGR  
Printed Name and Title

END OF SECTION

00520-3



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. I60101-WS

**EXHIBIT PCF-36**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<input type="text" value="New Project"/>		<b>Assigned Project #:</b> <input type="text" value="2016068"/>	
<b>Requested by:</b>		<input type="text" value="Bryan K. Gongre"/> <i>Project Manager / Area Manager</i>		<b>Date:</b> <input type="text" value="5/25/2016"/>	
<b>Project Name:</b>		<input type="text" value="UIF LW &amp; JA Elect Imp &amp; RTUs"/>			
<b>Company:</b>		<input type="text" value="252"/>	<input type="text" value="Utilities Inc of Florida"/>		
<b>Business Unit:</b>		<input type="text" value="252104"/>	<input type="text" value="Seminole Only Cost Center"/>		
<b>Project Owner:</b>		<input type="text" value="Bryan K. Gongre"/>		<b>BU Type:</b>	<input type="text" value="OH"/>
<b>Project Manager:</b>		<input type="text" value="Bryan K. Gongre"/>		<b>Budget Owner / RVP:</b>	<input type="text" value="John Hoy"/> 03
<b>Start Date:</b>		<input type="text" value="6/6/2016"/>	<input type="text" value="Q2 2016"/>	<b>Region:</b>	<input type="text" value="Florida"/> 04
<b>Estimated End Date:</b>		<input type="text" value="12/31/2016"/>	<input type="text" value="Q4 2016"/>	<b>State:</b>	<input type="text" value="FL"/>
<b>Project Type:</b>		<input type="text" value="EH&amp;S Compliance"/>			
<b>Will project replace/retire any assets:</b>		<input type="text" value="Yes"/>			
<b>Previously Requested:</b>		<input type="text" value="\$238,230"/>			
<b>This Request:</b>		<input type="text" value="\$4,351"/>			
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>		<input type="text" value="\$242,581"/>			
<b>Description:</b>					
<p>Little Wekiva WTP installation:</p> <ol style="list-style-type: none"><li>1. Pump control panel with PLC</li><li>2. Pressure monitoring panel, Mercoid type</li><li>3. Distribution panel, ceiling fixtures, 120VAC wall receptacles</li><li>4. Automatic air controls for hydro tank operation.</li></ol> <p>Jansen WTP installation:</p> <ol style="list-style-type: none"><li>5. Pressure monitoring panel, Mercoid type</li><li>6. (1) each 6" flow meter with 4-20mA output at Well 2</li><li>7. Automatic air controls for hydro tank.</li></ol> <p>Jansen Well 1, Oakland Shores Well 1, Weathersfield Plant and Bear Lake Plant production meters:</p> <ol style="list-style-type: none"><li>8. Install 4-20mA output register on existing flow meters.</li></ol> <p>Jansen, Bear Lake, Little Wekiva, Weathersfield, Oakland Shores, Park Ridge, Phillips and Ravenna Park WTP's:</p> <ol style="list-style-type: none"><li>9. Install Ace Motorola RTUs compatible with and integrated into SCADA equipment at Wekiva Plant.</li></ol> <p>Change Order #1 - Replace Jansen Well #1 and Bear Lake water meters with new meters with 4-20mA output.</p>					
<b>Timeline Considerations:</b>					
<p>Project completion needs to occur within two years of the end of the 2015TY as a proforma project that is included in the rate case to be filed in 3Q16.</p>					
<b>Inter-dependant Project</b>		<b>Project Number:</b>	<input type="text" value="2015081"/>	<b>Project Name</b>	<input type="text" value="Eng. UIF Elect. Imp. &amp; RTUs"/> (If applicable)
Have engineering evaluations been performed?		<input type="text" value="Yes"/>	<b>Engineering project number</b>	<input type="text" value="2015081"/>	(If applicable)

### Justification and Benefits:

The electrical improvements at the Little Wekiva WTP will replace the 1970's electrical components that have outlived their service life making replacement parts increasingly difficult to find. The new control panel will provide a long service life, will meet current electrical code, and will improve the functionality and reliability of the facility as this is an isolated treatment plant without any alternative water supply available. The new PLC will be able to trend data and capture flow, pressure, chlorine residual at the POE, pH and water temperature of which the latter three parameters are required by DEP to meet 4-log virus removal requirements.

The electrical components to be replaced at Jansen WTP were also installed in the 1970's. A new water pressure monitoring panel will include a pressure transducer to capture operating pressures at the facility. There will be a new 6" flow meter installed with 4-20mA output to replace the Well #2 meter that recently failed it's meter accuracy test.

Ace Motorola RTUs will be installed at all eight (8) of the UIF WTPs in Seminole County and equipped with cellular modems to transmit data to the existing Wekiva SCADA system. This will provide a central monitoring location that can also be monitored remotely via a VPN connection at all hours. The existing C&A alarm monitoring equipment will be removed and stored for future use. Alarm calls will be routed directly to the on call operator eliminating the need for an employee to act as a dispatcher thus reducing reponse times.

4-20mA meter register heads will be installed at four (4) locations that will be landed in the existing PLCs at those locations to provide run conditions and flow totals. This information will be captured by the Wekiva SCADA for use in producing the Monthly Operating Reports for FDEP.

Change Order #1 - As a result of the existing water meter age and manufacturer for the Jansen Well #1 and Bear Lake well meters, neither of these meter can be retrofitted to accommodate a 4-20mA register head to provide input to the new RTUs. Therefore complete new meter assemblies must be purchased. This CO results in an increase in project cost of \$4,350.83.

## Risk Evaluation

The Little Wekiva WTP is an isolated water plant and system with no alternative water supply available to provide service in the event of a mechanical or electrical failure. Upgrading the electrical components will decrease the chances of a failure of this nature.

The Jansen Well #2 meter no longer functions within the acceptable range of accuracy as required by the Consumptive Use Permit issued by SJRWMD and needs to be replaced to maintain compliance.

### Alternatives Considered:

The do nothing approach at Little Wekiva will result in more frequent outages over time resulting in a degradation of quality of service. The RTU installations could be delayed, but the benefit of expense reduction will not be realized. Delays in responding to alarms will continue to occur.

By not replacing the inaccurate flow meter at Jansen Well 2, the Utility would be out of compliance with the SJRWMD issued CUP. Therefore, no alternatives were considered.

### Technical Review Summary:

## Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	242,581				
Project Spend in Current Plan	242,581				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	242,581	242,581	242,581	242,581	242,581

(if applicable)

## O&M Cost Impact B/(W)

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## Financial Justification

Change Order #1 - The financials have been adjusted upward by \$4,351.00. The original project cost was \$238,230.00. The revised project cost is \$242,581.00

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(7.33)	(7.33)
3,659	3,659

## Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(4,852)	(9,703)	(9,703)	(9,703)	(9,703)
Under-recovery on capital B/(W)	(8,915)	(17,102)	(16,374)	(15,646)	(14,919)
Net EBIT Impact B/(W)	(13,766)	(26,805)	(26,077)	(25,350)	(24,622)

## Timing and Supporting Information on Rate Recovery

This is a proforma project to be included in the 2016 rate case filing.

## Regulatory Plan Implications

This project is included in the Region's 2016 capital plan.

## Assumptions



**BID INFORMATION AND BUDGET BREAKDOWN**

Have three bids been received?

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Thompson Electric	\$83,750	Yes
2	Chinchor Electric	\$152,239	No
3	North Lake Electric	No bid	No

**Component:****Amount**

Value Bid Elements	83,750.00
Engineering	
Direct Purchase of Parts / Materials	
Landscaping / Site Restoration	
Other Components (specify):	
Cap Time	
ScadaOne (Equipment/RTUs/Integration)	146,480.00
Avanti (Meter and Meter registers)	8,000.00
CO #1 Avanti (Jansen Well #1 & Bear Lake Meter	4,351.00

(should match selected bid(s) above)**Total Project Budget****242,581.00**(should match Total Budget on General Information)**Object Account(s) to which project will be closed:**

Electric Pump Equip Wtp  
select from dropdown list  
select from dropdown list  
select from dropdown list  
select from dropdown list

[Go to Reference List](#)**General Comments:**

This project was bid out to four (4) electric contractors but only two bids were received. ScadaOne, who initially established the SCADA systems at Wekiva and LUSI, is the sole source for additional SCADA equipment and integration to insure optimum functionality and reliability.





## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 6/1/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 5/26/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

None.

### FP&A Review

Review Completed by Christie Kincaid Date: 6/1/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan Gongre Date: 5/26/2016 ☒

VP Operations: Patrick C. Flynn Date: 5/31/2016 ☒

President: John P. Hoy Date: 6/2/2016 ☒

### Approval or Re-Direction Comments

**ADD-CHANGE FORM****New Project or Budget Change?**

New Project

**Assigned Project #:****Requested by:**

Bryan K. Gongre

**Date:** 5/25/2016

Project Manager / Area Manager

**Project Name:**

UIF LW &amp; JA Elect Imp &amp; RTUs

**Company:**

252

Utilities Inc of Florida

**Business Unit:**

252104

Seminole Only Cost Center

**Project Owner:**

Bryan K. Gongre

**BU Type:**

OH

**Project Manager:**

Bryan K. Gongre

**Budget Owner / RVP:**

John Hoy

03

**Start Date:**

6/6/2016

Q2 2016

**Region:**

Florida

04

**Estimated End Date:**

12/31/2016

Q4 2016

**State:**

FL

**Project Type:**

EH&amp;S Compliance

**Will project replace/retire any assets:**

Yes

**Previously Requested:****This Request:**

\$238,230

**Still to be Requested:****Total Project Budget:**

\$238,230

**Description:**

Little Wekiva WTP installation:

1. Pump control panel with PLC
2. Pressure monitoring panel, Mercooid type
3. Distribution panel, ceiling fixtures, 120VAC wall receptacles
4. Automatic air controls for hydro tank operation.

Jansen WTP installation:

5. Pressure monitoring panel, Mercooid type
6. (1) each 6" flow meter with 4-20mA output at Well 2
7. Automatic air controls for hydro tank.

Jansen Well 1, Oakland Shores Well 1, Weathersfield Plant and Bear Lake Plant production meters:

8. Install 4-20mA output register on existing flow meters.

Jansen, Bear Lake, Little Wekiva, Weathersfield, Oakland Shores, Park Ridge, Phillips and Ravenna Park WTP's:

9. Install Ace Motorola RTUs compatible with and integrated into SCADA equipment at Wekiva Plant.

**Timeline Considerations:**

Project completion needs to occur within two years of the end of the 2015TY as a proforma project that is included in the rate case to be filed in 3Q16.

**Inter-dependant Project****Project Number:**

2015081

**Project Name**

Eng. UIF Elect. Imp. &amp; RTUs

(If applicable)

**Have engineering evaluations been performed?**

Yes

**Engineering project number**

2015081

(If applicable)

**Justification and Benefits:**

The electrical improvements at the Little Wekiva WTP will replace the 1970's electrical components that have outlived their service life making replacement parts increasingly difficult to find. The new control panel will provide a long service life, will meet current electrical code, and will improve the functionality and reliability of the facility as this is an isolated treatment plant without any alternative water supply available. The new PLC will be able to trend data and capture flow, pressure, chlorine residual at the POE, pH and water temperature of which the latter three parameters are required by DEP to meet 4-log virus removal requirements.

The electrical components to be replaced at Jansen WTP were also installed in the 1970's. A new water pressure monitoring panel will include a pressure transducer to capture operating pressures at the facility. There will be a new 6" flow meter installed with 4-20mA output to replace the Well #2 meter that recently failed it's meter accuracy test.

Ace Motorola RTUs will be installed at all eight (8) of the UIF WTPs in Seminole County and equipped with cellular modems to transmit data to the existing Wekiva SCADA system. This will provide a central monitoring location that can also be monitored remotely via a VPN connection at all hours. The existing C&A alarm monitoring equipment will be removed and stored for future use. Alarm calls will be routed directly to the on call operator eliminating the need for an employee to act as a dispatcher thus reducing reponse times.

4-20mA meter register heads will be installed at four (4) locations that will be landed in the existing PLCs at those locations to provide run conditions and flow totals. This information will be captured by the Wekiva SCADA for use in producing the Monthly Operating Reports for FDEP.

**Risk Evaluation**

The Little Wekiva WTP is an isolated water plant and system with no alternative water supply available to provide service in the event of a mechanical or electrical failure. Upgrading the electrical components will decrease the chances of a failure of this nature.

The Jansen Well #2 meter no longer functions within the acceptable range of accuracy as required by the Consumptive Use Permit issued by SJRWMD and needs to be replaced to maintain compliance.

**Alternatives Considered:**

The do nothing approach at Little Wekiva will result in more frequent outages over time resulting in a degradation of quality of service. The RTU installations could be delayed, but the benefit of expense reduction will not be realized. Delays in responding to alarms will continue to occur.

By not replacing the inaccurate flow meter at Jansen Well 2, the Utility would be out of compliance with the SJRWMD issued CUP. Therefore, no alternatives were considered.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	238,230				
Project Spend in Current Plan	238,230				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	238,230	238,230	238,230	238,230	238,230

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--	--

### Financial Justification

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

#### Served Rate Payers


### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)					
Under-recovery on capital B/(W)					
Net EBIT Impact B/(W)					

### Timing and Supporting Information on Rate Recovery

This is a proforma project to be included in the 2016 rate case filing.

### Regulatory Plan Implications

This project is included in the Region's 2016 capital plan.

### Assumptions





## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Thompson Electric	\$83,750	Yes
2	Chinchor Electric	\$152,239	No
3	North Lake Electric	No bid	No

### Component:

### Amount

Value Bid Elements

83,750.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

ScadaOne (Equipment/RTUs/Integration)

146,480.00

Avanti (Meter and Meter registers)

8,000.00

Total Project Budget

238,230.00

Object Account(s) to which project will be closed:

1105

Electric Pump Equip Wtp  
select from dropdown list  
select from dropdown list  
select from dropdown list  
select from dropdown list

[Go to Reference List](#)

### General Comments:

This project was bid out to four (4) electric contractors but only two bids were received. ScadaOne, who initially established the SCADA systems at Wekiva and LUSI, is the sole source for additional SCADA equipment and integration to insure optimum functionality and reliability.





## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

5/26/2017

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

None.

### FP&A Review

Review Completed by

Date:

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☐ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan Gongre

Date:

☐

VP Operations:

Patrick C. Flynn

Date:

5/31/2016

☒

President:

Date:

☐

### Approval or Re-Direction Comments



## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>	New Project		<b>Assigned Project #:</b>	2015081	
<b>Requested by:</b>	Bryan K. Gongre <i>Project Manager / Area Manager</i>		<b>Date:</b>	4/13/2015	
<b>Project Name:</b>	Eng LW & JA Elec Imp & RTUs				
<b>Company:</b>	252	Utilities Inc of Florida			
<b>Business Unit:</b>	252100	Seminole/Orange Cost Center			
<b>Project Owner:</b>	John Hoy		<b>BU Type:</b>	OH	
<b>Project Manager:</b>	Bryan K. Gongre		<b>Budget Owner / RVP:</b>	John Hoy	03
<b>Start Date:</b>	4/20/2015	Q2 2015	<b>Region:</b>	Florida	04
<b>Estimated End Date:</b>	12/31/2015	Q4 2015	<b>State:</b>	FL	
<b>Project Type:</b>	Maintenance				
<b>Will project replace/retire any assets:</b>	Yes				
<b>Previously Requested:</b>					
<b>This Request:</b>	\$38,600				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	\$38,600				
<b>Description:</b>					
<p>The first phase of this project would be the design of electrical improvements at the UIF Jansen and Little Wekiva WTPs. The finished design will then be let to bid for the second phase of the project that allows for construction of the improvements. Included is the design and installation of RTUs at the following WTP's in Seminole County: Weathersfield, Bear Lake, Oakland Shores, Park Ridge, Phillips and Ravenna Park. The RTUs will be networked through the Wekiva SCADA system to allow remote monitoring of all eight (8) of the UIF WTPs in Seminole County including Jansen and Little Wekiva WTP's once those electrical improvements are constructed.</p>					
<b>Timeline Considerations:</b>					
<p>These projects are to be designed and bid out to coincide with the 3rd quarter rate filing for the UIF systems so the construction costs can be provided to the FPSC for rate recovery as a proforma project.</p>					
<b>Inter-dependant Project</b>	<b>Project Number:</b>		<b>Project Name</b>	(If applicable)	
Have engineering evaluations been performed?	No		<b>Engineering project number</b>	(If applicable)	

**Justification and Benefits:**

The existing electrical equipment located within the Jansen and Little Wekiva WTP's is mostly 30+ years old and outlived the typical service life of such equipment. Repair parts are becoming increasingly difficult to locate and reliability has declined. By replacing these components there will be greater reliability meaning fewer outages and lower O&M costs in the form of salaries related to over time pay. Both of these systems are stand alone and do not have an auxiliary water source interconnect; however, the Jansen WTP does have an auxiliary generator. Both facilities will be equipped with a PLC that will include the installation of an RTU to communicate data and alarms. The C&A remote monitoring will be replaced and the associated monitoring costs eliminated by installing the RTUs. Facilities can be monitored remotely and data can be checked and stored for trends to better diagnose problems.

Installing RTUs at all of the UIF WTP's provides for all of the facilities to report to the Wekiva SCADA monitoring system and eliminates all of the C&A monitoring costs as well as gaining the other attributes mentioned in the paragraph above.

**Risk Evaluation**

Outages to transfer the operation of equipment from the existing controls to the new controls at Little Wekiva. This risk can be mitigated with the use of a portable auxiliary generator when transferring over at the Little Wekiva WTP and performing the transfer during low demand periods.

**Alternatives Considered:**

Replace electrical components on an as needed basis as failures occur. This method does not address reliability comprehensively and results lowers the customer's confidence and satisfaction.

The RTUs could be installed at a later date or not at all but means that we would continue to pay for third party monitoring and do not gain the benefit of continuous monitoring of data such as pressure and flow.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

#### Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
38,600				
(38,600)	-	-	-	-
38,600	38,600	38,600	38,600	38,600

(if applicable)

O&M Cost Impact B/(W)

	516	516	516	516
--	-----	-----	-----	-----

### Financial Justification

Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(2)	(2)
2,423	2,745

### Utility Financial Impact

O&M Impact on EBITDA B/(W)

Depreciation Impact on EBIT B/(W)

Under-recovery on capital B/(W)

Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	516	516	516	516
	(3,217)	(3,217)	(3,217)	(3,217)
	(2,654)	(2,413)	(2,171)	(1,930)
	(5,354)	(5,113)	(4,872)	(4,631)

### Timing and Supporting Information on Rate Recovery

UIF Rate Case is in our 2015 Budget

### Regulatory Plan Implications

This project is in our 2015 Capital Plan

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Bailey Engineering	\$38,600	Yes
2			
3			

### Component:

### Amount

Value Bid Elements

38,600.00

should match selected bid(s) above

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Total Project Budget

38,600.00

should match Total Budget on General information

Object Account(s) to which project will be closed:

1105

Electric Pump Equip Wtp

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

Bailey Engineering's proposal is consistent with the engineering support services provided at the other UIF plants when making electrical improvements over the last three years. Bailey has familiarity with UIF's design and operating preferences and his cost of services is significantly less than the minimum amount that would otherwise require solicitation of multiple bids.





## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

4/16/2015

Approval to proceed

Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

The data collected through the SCADA equipment will be periodically analyzed to improve efficiency of operations, and in conjunction with our asset management plan, align with our capex decisions.

### FP&A Review

Review Completed by

Christie Kincaid

Date:

4/23/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan Gongre

Date:

4/29/2015

☒

VP Operations:

Patrick C. Flynn

Date:

4/29/2015

☒

President:

John P. Hoy

Date:

5/4/2015

☒

### Approval or Re-Direction Comments

None.

UIF ELECTRICAL IMP. & RTU INSTALLATION - BID TABULATION	
BMP Electric, Inc.	No bid received
North Lake Electric	No bid received
Chinchor Electric Inc.	\$152,239.00
Thompson Electric, LLC	\$83,750.00
ScadaOne (Sole Source RTUs and Electrical Equipment)	\$146,480.00
Total	\$230,230.00

BILL BAHLER

THOMPSON ELECTRIC, LLC

PO BOX 2531 INVERNESS, FL 34151

CELL: (407) 947-9199 ▲ PHONE: (352) 637-0702 ▲ FAX: (352) 637-0702

Email [bill.bahler@thompsolecfl.com](mailto:bill.bahler@thompsolecfl.com)

PROPOSAL  
No. P720-0516-B

May 18, 2016

Bailey Engineering Consultants  
10620 Griffin Rd., Suite 202  
Cooper City, FL 33328

**Re: Utilities Inc., Misc. WTP Improvements and RTU Additions**

Dear Stephen Bailey,  
Thompson Electric, LLC is pleased to offer the following proposal for your review.

Furnish and install electrical material and equipment for the (8) Utilities Inc., Misc. WTP Improvements and RTU Additions, as shown on the plan sheets E-01 through E-15 and as called out in Division 16000 of the electrical specifications and addendum No.1 dated May 9, 2016.

**TOTAL PRICE - \$83,750.00**

This proposal may be withdrawn by us if not accepted within 30 days.

Respectfully submitted,



William P. Bahler  
Project Manager

WPB

BILL BAHLER

THOMPSON ELECTRIC, LLC

PO BOX 2531 INVERNESS, FL 34151

CELL: (800) 947-9499 ▲ PHONE: (352) 637-0702 ▲ FAX: (352) 637-0702

Email [bill.bahler@thompsolecfl.com](mailto:bill.bahler@thompsolecfl.com)

PROPOSAL  
No P720-0516-B

May 18, 2016

Bailey Engineering Consultants  
10620 Griffin Rd., Suite 202  
Cooper City, FL 33328

**Re: Utilities Inc., Misc. WTP Improvements and RTU Additions**

Dear Stephen Bailey,  
Thompson Electric, LLC is pleased to offer the following proposal for your review.

Furnish and install electrical material and equipment for the (8) Utilities Inc. Misc WTP Improvements and RTU Additions, as shown on the plan sheets E-01 through E-15 and as called out in Division 16000 of the electrical specifications and addendum No.1 dated May 9, 2016.

**TOTAL PRICE - \$83,750.00**

This proposal may be withdrawn by us if not accepted within 30 days.

Respectfully submitted,



William P. Bahler  
Project Manager

WPB

May 20, 2016

Stephen Bailey  
Bailey Engineering  
10620 Griffin Road, Suite 202  
Cooper City, Florida 33328

We are pleased to provide you with this updated proposal for the Misc WTP Improvements and RTU Additions project, per the specified drawings and specifications. Our proposal includes the following:

## MISC WTP IMPROVEMENTS AND RTU ADDITIONS

- Kick-off Meeting and Submittals .....\$7,230
- Design and Drawings.....\$11,410
- Phillips WTP RTU, PCP Mods, Termination, and Startup.....\$6,930
  - Removed Isolators
- Ravenna WTP RTU, PCP Mods, Termination, and Startup .....\$7,280
  - Removed Isolators
- Park Ridge WTP RTU, PCP Mods, AC Mods, Termination, and Startup .....\$7,280
  - Removed Isolators
- Bear Lake WTP RTU, PCP Mods, AC Mods, Termination, and Startup .....\$7,280
  - Removed Isolators
- Oakland Shores WTP PCP Mods, Termination, and Startup.....\$6,980
  - Removed Isolators
- Weathersfield WTP RTU, PCP Mods, Termination, and Startup .....\$7,530
  - Removed Isolators
- Jansen WTP RTU, PMP, PCP Mods, Termination, and Startup .....\$19,980
  - Removed Isolators
- Little Wekiva WTP RTU, PCP, PMP, OIT, Termination and Startup .....\$38,870
  - Removed Isolators
- Software (HMI and RTUs).....\$22,650
  - Licensing, PLC Programming, and HMI Programming
- Spares .....\$1,860
  - Removed Zerust Capsules

Project Total.....\$146,480

Thank you for giving us the opportunity to provide you with this proposal. I hope you find it favorable. Feel free to contact me if you have any questions or need additional information.

Sincerely,

Kevin L Mathes  
System Designer, CEO  
863-581-4902  
kmathes@scadaone.com



BILL BAHLER

## THOMPSON ELECTRIC, LLC

PO BOX 2531 INVERNESS, FL 34451

PHONE: (352) 637-0702 ▲ FAX: (352) 637-0702 ▲ CELL: (407) 947-9499

Email: bill.bahler@thompsolecfl.com

### INVOICE

Date: July 27, 2016

Invoice #: TE16-020-001

Ordered By: Bryan Gongre

Field Contact: N/A

Business Unit #:

OP #:

3001051  
PO# 216660  
Recpt# 230524

BILL TO: Utilities Inc. of Florida  
Attention: Accounts Payable  
2335 Sanders Road  
Northbrook, IL 60062

NAME OF PROJECT: UIF Electrical Improvements & RTUs

DESCRIPTION	AMOUNT
› Mobilization for UIF Electrical Improvements & RTUs Total Contract Price- \$83,750.00 2% Complete	\$ 1,675.00
Our Job No. J16 020	
Subtotal	\$ 1,675.00
10% Retainage	\$ (167.50)
TOTAL DUE	\$ 1,507.50

Make checks Payable to: Thompson Electric, LLC  
Remit to: PO Box 2531 Inverness, FL 34451

THANK YOU FOR YOUR BUSINESS!

SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 **THIS AGREEMENT**, made this 17th day of June, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Thompson Electric, LLC, doing business as a                      and hereinafter called the Contractor.

1.02 The Owner and Contractor agree as follows:

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the Bonds, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the                     UIF Electrical Improvements & RTUs                    

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 90 OR 45 DAYS calendar days from the date of the Notice to Proceed. The work shall be finally FROM complete, ready for Final Payment in accordance with the General Conditions, RECEIPT within 30 calendar days from the actual date of substantial completion.

WTB  
OF OWNER  
FURNISHED  
CONTROL PANELS

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of Eighty three thousand seven hundred fifty dollars Dollars (\$ 83,750.00). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

H. Engineer

The Project has been designed by Bailey Engineering Consultants, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Thompson Electric, LLC

Name of Firm

William Bahler Project Manager

By (Signature)

(SEAL)

William Bahler, Project Manager

Printed Name and Title

ATTEST:

Sharon Kaskie

By (Signature)

SHARON KASKIE ADMINISTRATIVE ASSISTANT

Printed Name and Title

OWNER:

Utilities Inc. of Florida

Name of Owner

Bryan K. Gongre

By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager

Printed Name and Title

ATTEST:

Susan M. DiPasquale

By (Signature)

Susan M. DiPasquale

Printed Name and Title

END OF SECTION

**SECTION 00520**  
**AGREEMENT FORM**

**PART 1 GENERAL**

**1.01 THIS AGREEMENT**, made this 17th day of June, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and ScadaOne, LLC, doing business as a \_\_\_\_\_ and hereinafter called the Contractor.

**1.02 The Owner and Contractor agree as follows:**

**A. Contract Documents**

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the Bonds, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

**B. Scope of Work**

The Contractor shall perform all work required by the Contract Documents for the construction of the UIF Electrical Improvements & RTUs

**C. Contract Time**

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 90 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.



March 17<sup>th</sup>, 2015



Bryan K. Gongre  
Regional Manager  
Utilities, Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Re: Jansen Water Treatment Plant  
Utilities Inc. of Florida

Dear Mr. Gongre:

We are pleased to submit our proposal for engineering design and construction services for the above project. The following provides an overview of the engineering services Bailey Engineering Consultants, Inc. (BEC) intends to furnish to Utilities, Inc. of Florida (UI) and a lump sum fee amount to provide these services. Our fee shall include completed drawings for the work, covering all phases of our design in an AutoCAD 2015 format, project specifications and opinion of probable cost for the work performed under this agreement. An overview of the work to be performed for the electrical and instrumentation design is as outlined below:

Task I - Design Services

1. Visit the above referenced project site and observe the existing field conditions for the facility. Based on this visit design of the replacement of the electrical and control system and the ancillary lighting and miscellaneous 120 volt power. This service feeds two (2) wells and facility miscellaneous power, lighting and control items.
2. Prepare specifications for new pump control panel. This panel will include pump starters, 120 volt panel board as required to serve the building and miscellaneous components and new controls for station operation.
3. Prepare specifications and drawings for the design of the required electrical and control system components and their installation by a Contractor.
4. Interface above design with new RTU system. RTU type to be cell phone based by Scada One. Signals to be monitored include: loss of phase, low system pressure and low CL2 residual.
5. No site plan or survey exists; as such BEC will provide only approximate site plan and building dimensions as determined during our field visit.
6. Bidding services.

Task I' - Construction Services

10620 GRIFFIN ROAD, SUITE 202 • COOPER CITY, FL • 33328  
PHONE: 954-448-7930 • FAX: 954-713-9959

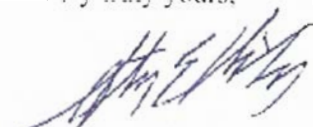
A. Bailey Engineering Consultants, Inc. (BEC) will perform project administration and provide professional services during the construction phase that will implement the facility modifications. By performing these services, BEC shall not have authority or responsibility to supervise, direct, or control the Contractor's work or the Contractor's means and methods, techniques, sequences, or procedures of construction. BEC shall not have authority or responsibility for safety precautions and programs incident to the Contractor's work or for any failure of the Contractor to comply with laws, regulations, rules, ordinances, codes, or orders applicable to the Contractor furnishing and performing the work. Consultant reviews shall not relieve the Contractor of any of his contractual responsibilities. Specific services to be performed by Consultant are as follows:

- 1) Shop Drawing Review - Review and approve (or take other appropriate action in respect of) Shop Drawings and samples, the results of tests and inspections and other data which each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents (but such review and approval or other action shall not exceed to means, methods, sequences, techniques or procedures of construction or to safety precautions and programs incident thereto); and receive and review (for general content as required by the Specifications) maintenance and operating schedules and instruction, guarantees, bonds and certificates of inspection which are to be assembled by Contractor(s) in accordance with the Contract Documents.
- 2) Issue Clarifications - Issue all instructions of OWNER to Contractor(s); issue necessary interpretations and clarifications of the Contract Documents; have authority, as OWNER's representative to require special inspection or testing of the work; act as initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder, and make decisions on all claims of OWNER and Contractor(s) relating to the acceptability of the work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the work. The ENGINEER shall render all interpretations or decisions in good faith and in accordance with the requirements of the Contract Documents.
- 3) Site Visits - Make three (3) visits to the site upon final stage of construction to observe, as an experienced and qualified professional, the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the Contract Documents. ENGINEER shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by Contractor(s) or the safety precautions and programs incident to the work of Contractor(s). ENGINEER's efforts will be directed toward providing a greater degree of confidence for OWNER that the completed work of Contractor(s) will conform to the Contract Drawings, but ENGINEER shall not be responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Drawings. During such visits and on the basis of on-site observations, ENGINEER shall keep OWNER informed of the progress of the work, shall endeavor to guard OWNER against defects and deficiencies in such work and may disapprove or reject work failing to conform to the Contract Documents. Consultant will provide to the City a list of items to be completed, if any.

SUPPLEMENTAL SERVICES - Any work requested by the Owner that is not included in one of the items listed in any other phase will be classified as supplemental services. Tasks No. 1 and 2 will be performed on a lump sum basis. Travel to and from the site and other direct costs are included in the overhead rate and will not be billed as a separate line item. Our fee for this work shall be as follows:

Task 1-Design Services	
When plans are 100% complete	\$ 9,500.00
Task 2-Construction Services	\$ 5,200.00
Total:	\$ 14,700.00

Very truly yours,



Stephen E. Bailey, P.E.

ACCEPTED 

DATE

5/5/15

U1-15-001HDG



March 17<sup>th</sup>, 2015

Bryan K. Gongre  
Regional Manager  
Utilities, Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Re: Little Wekiva Water Treatment Plant  
Utilities Inc. of Florida

Dear Mr. Gongre:

We are pleased to submit our proposal for engineering design and construction services for the above project. The following provides an overview of the engineering services Bailey Engineering Consultants, Inc. (BEC) intends to furnish to Utilities, Inc. of Florida (UI) and a lump sum fee amount to provide these services. Our fee shall include completed drawings for the work, covering all phases of our design in an AutoCAD 2015 format, project specifications and opinion of probable cost for the work performed under this agreement. An overview of the work to be performed for the electrical and instrumentation design is as outlined below:

Task I - Design Services

1. Visit the above referenced project site and observe the existing field conditions for the facility. Based on this visit design of the replacement of the electrical and control system and the ancillary lighting and miscellaneous 120 volt power. This service feeds one well and facility miscellaneous power, lighting and control items.
2. Prepare specifications for new pump control panel. This panel will include pump starters, 120 volt panel board as required to serve the building and miscellaneous components and new controls for station operation.
3. Prepare specifications and drawings for the design of the required electrical and control system components and their installation by a Contractor.
4. Interface above design with new RTU system. RTU type to be cell phone based by ScadaOne. Signals to be monitored include: loss of phase, low system pressure and low CL2 residual.

10620 GRIFFIN ROAD, SUITE 202 • COOPER CITY, FL • 33328  
PHONE: 954-448-7930 • FAX: 954-713-9959

5. No site plan or survey exists: as such BEC will provide only approximate site plan and building dimensions as determined during our field visit.
6. Bidding services.

#### Task II – Construction Services

- A. Bailey Engineering Consultants, Inc. (BEC) will perform project administration and provide professional services during the construction phase that will implement the facility modifications. By performing these services, BEC shall not have authority or responsibility to supervise, direct, or control the Contractor's work or the Contractor's means and methods, techniques, sequences, or procedures of construction. BEC shall not have authority or responsibility for safety precautions and programs incident to the Contractor's work or for any failure of the Contractor to comply with laws, regulations, rules, ordinances, codes, or orders applicable to the Contractor furnishing and performing the work. Consultant reviews shall not relieve the Contractor of any of his contractual responsibilities. Specific services to be performed by Consultant are as follows:
  - 1) Shop Drawing Review - Review and approve (or take other appropriate action in respect of) Shop Drawings and samples, the results of tests and inspections and other data which each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents (but such review and approval or other action shall not exceed to means, methods, sequences, techniques or procedures of construction or to safety precautions and programs incident thereto); and receive and review (for general content as required by the Specifications) maintenance and operating schedules and instruction, guarantees, bonds and certificates of inspection which are to be assembled by Contractor(s) in accordance with the Contract Documents.
  - 2) Issue Clarifications - Issue all instructions of OWNER to Contractor(s); issue necessary interpretations and clarifications of the Contract Documents; have authority, as OWNER's representative to require special inspection or testing of the work; act as initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder, and make decisions on all claims of OWNER and Contractor(s) relating to the acceptability of the work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the work. The ENGINEER shall render all interpretations or decisions in good faith and in accordance with the requirements of the Contract Documents.
  - 3) Site Visits - Make three (3) visits to the site upon final stage of construction to observe, as an experienced and qualified professional, the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the Contract Documents. ENGINEER shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by Contractor(s) or the safety precautions and programs incident to the work of Contractor(s). ENGINEER's efforts will be directed toward providing a greater degree of confidence for OWNER that the completed work of Contractor(s) will conform to the Contract Drawings, but ENGINEER shall not be

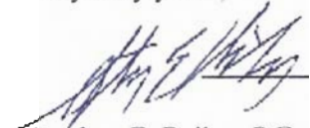


responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Drawings. During such visits and on the basis of on-site observations, ENGINEER shall keep OWNER informed of the progress of the work, shall endeavor to guard OWNER against defects and deficiencies in such work and may disapprove or reject work failing to conform to the Contract Documents. Consultant will provide to the City a list of items to be completed, if any.

SUPPLEMENTAL SERVICES - Any work requested by the Owner that is not included in one of the items listed in any other phase will be classified as supplemental services. Tasks No. 1 and 2 will be performed on a lump sum basis. Travel to and from the site and other direct costs are included in the overhead rate and will not be billed as a separate line item. Our fee for this work shall be as follows:

Task 1-Design Services	
When plans are 100% complete	\$ 7,800.00
Task 2-Construction Services	\$ 4,800.00
Total:	\$ 12,600.00

Very truly yours,

  
\_\_\_\_\_  
Stephen E. Bailey, P.E.

ACCEPTED

 DATE 5/5/15

U1-15-002DG



March 17<sup>th</sup>, 2015

Bryan K. Gongre  
Regional Manager  
Utilities, Inc. of Florida  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Re: RTU Additions at Phillips, Ravenna, Park Ridge, Bear Lake, Oakland Shores and  
Weathersfield WTP's  
Utilities Inc. of Florida

Dear Mr. Gongre:

We are pleased to submit our proposal for engineering design and construction services for the above project. The following provides an overview of the engineering services Bailey Engineering Consultants, Inc. (BEC) intends to furnish to Utilities, Inc. of Florida (UI) and a lump sum fee amount to provide these services. Our fee shall include completed drawings for the work, covering all phases of our design in an AutoCAD 2015 format, project specifications and opinion of probable cost for the work performed under this agreement. An overview of the work to be performed for the electrical and instrumentation design is as outlined below:

Task I - Design Services

1. Design for the installation UI standard RTUs at the following locations:
  - Phillips WTP
  - Ravenna WTP
  - Park Ridge WTP
  - Bear Lake WTP
  - Oakland Shores WTP
  - Weathersfield WTP
2. Prepare specifications as required. Interface existing plant signals with new RTU system. RTU type to be cell phone based by ScadaOne.

Task II – Construction Services

- A. Bailey Engineering Consultants, Inc. (BEC) will perform project administration and provide professional services during the construction phase that will implement the facility modifications. By performing these services, BEC shall not have authority or responsibility to supervise, direct, or control the Contractor's work or the Contractor's

10620 GRIFFIN ROAD, SUITE 202 • COOPER CITY, FL • 33328  
PHONE: 954-448-7930 • FAX: 954-713-9959

means and methods, techniques, sequences, or procedures of construction. BEC shall not have authority or responsibility for safety precautions and programs incident to the Contractor's work or for any failure of the Contractor to comply with laws, regulations, rules, ordinances, codes, or orders applicable to the Contractor furnishing and performing the work. Consultant reviews shall not relieve the Contractor of any of his contractual responsibilities. Specific services to be performed by Consultant are as follows:

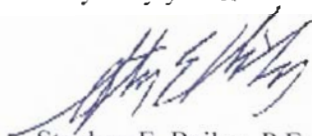
- 1) Shop Drawing Review - Review and approve (or take other appropriate action in respect of) Shop Drawings and samples, the results of tests and inspections and other data which each Contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents (but such review and approval or other action shall not exceed to means, methods, sequences, techniques or procedures of construction or to safety precautions and programs incident thereto); and receive and review (for general content as required by the Specifications) maintenance and operating schedules and instruction, guarantees, bonds and certificates of inspection which are to be assembled by Contractor(s) in accordance with the Contract Documents.
- 2) Issue Clarifications - Issue all instructions of OWNER to Contractor(s); issue necessary interpretations and clarifications of the Contract Documents; have authority, as OWNER's representative to require special inspection or testing of the work; act as initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder, and make decisions on all claims of OWNER and Contractor(s) relating to the acceptability of the work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the work. The ENGINEER shall render all interpretations or decisions in good faith and in accordance with the requirements of the Contract Documents.
- 3) Site Visits - Make six (6) visits (one per site) to the site upon final stage of construction to observe, as an experienced and qualified professional, the progress and quality of the executed work of Contractor(s) and to determine in general if such work is proceeding in accordance with the Contract Documents. ENGINEER shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by Contractor(s) or the safety precautions and programs incident to the work of Contractor(s). ENGINEER's efforts will be directed toward providing a greater degree of confidence for OWNER that the completed work of Contractor(s) will conform to the Contract Drawings, but ENGINEER shall not be responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Drawings. During such visits and on the basis of on-site observations, ENGINEER shall keep OWNER informed of the progress of the work, shall endeavor to guard OWNER against defects and deficiencies in such work and may disapprove or reject work failing to conform to the Contract Documents. Consultant will provide to the City a list of items to be completed, if any.

SUPPLEMENTAL SERVICES - Any work requested by the Owner that is not included in one of the items listed in any other phase will be classified as supplemental services. Tasks No. 1 and 2 will be performed on a lump sum basis. Travel to and from the site and other direct costs are

included in the overhead rate and will not be billed as a separate line item. Our fee for this work shall be as follows:

Task 1-Design Services	
When plans are 100% complete	\$ 6,500.00
Task 2-Construction Services	\$ 4,800.00
Total:	\$ 11,300.00

Very truly yours,



Stephen E. Bailey, P.E.

ACCEPTED



DATE

5/5/15

U-15-004DG

 *The Avanti Company*  
 FLOW METERS AND METERING SYSTEMS  
 22 SOUTH LAKE AVENUE  
 AVON PARK, FLORIDA 33825  
 (863) 453-5336 (800) 284-5231  
 FAX (863) 453-0085

3002403  
 PO# 227460  
 Receipt# 238367

# Invoice

Invoice Number  
 118022

Invoice Date  
 October 25, 2016

Page  
 1

## Sold To:

UTILITIES INC. OF FLORIDA  
 ATTN ACCOUNTS PAYABLE  
 2335 SANDERS ROAD  
 NORTHBROOK, IL 60062

## Ship To:

UTILITIES INC. OF FLORIDA  
 200 WEATHERSFIELD AVENUE  
 ATTN: BRYAN K. GONGRE  
 ALTAMONTE SPRINGS, FL 32714

Customer ID  
 UTILIT

Customer P.O. Number  
 WTP METERS1/BGONGRE

Payment Terms  
 Net 30 Days

Sales Rep ID  
 001

Shipping Method  
 REC'D AT AVANTI

Ship Date  
 10/24/16

Due Date  
 11/24/16

Quantity	Item	Description	Unit Price	Extension
1.00	WSC 7-TR15-R	WATER SPECIALTIES TOTALIZER TRANSMITTER, RETROFIT, FOR S/N 20051057 *TAG: WEATHERSFIELD	1,016.00	1,016.00
1.00	WSC 7-TR15-R	WATER SPECIALTIES TOTALIZER TRANSMITTER, RETROFIT, FOR S/N 20073384 *TAG: OAKLAND SHORES	1,016.00	1,016.00

Customer Phone #800-272-1919  
 Customer Fax 407-869-6961

Please provide 2016 annual resale certificate to the  
 Avanti Company or sales tax could be applied on  
 subsequent invoices. All returns are subject to 25%  
 restocking fee. See packing slip for details. Thank you

Subtotal	2,032.00
Sales Tax	142.24
Freight	38.01
Total Invoice Amount	2,212.25
Payment Received	0.00
<b>TOTAL DUE</b>	<b>\$2,212.25</b>

For your convenience, we accept Visa, Mastercard and American Express



# ScadaOne, LLC

www.scadaone.com

2500 Drane Field Rd.  
Suite 104  
Lakeland, FL 33811  
888-472-2321 (office)  
863-812-4490 (fax)

## INVOICE

Date	Invoice #
9/21/2016	1085-60921

### Bill To

~~Lake Utility Services, Inc.~~ Utilities Inc. of Florida  
Accounts Payable  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714

Remit To: ScadaOne, LLC  
PO Box 456  
Mulberry, FL 33860

3063130  
PO# 216661  
Repl# 235491

Project: 1085 Misc WTP Improvements

P.O. No.	Due Date
	10/6/2016

Description	Qty	Rate	Amount
Kick-off Meeting and Submittals	1	7,230.00	7,230.00
Design and Drawings	1	12,610.00	12,610.00
Phillips WTP RTU, PCP Mods, Termination, and Startup	0.75	6,930.00	5,197.50
Ravenna WTP RTU, PCP Mods, Termination, and Startup	0.75	7,280.00	5,460.00
Park Ridge WTP RTU, PCP Mods, AC Mods, Termination, and Startup	0	7,280.00	0.00
Bear Lake WTP RTU, PCP Mods, AC Mods, Termination, and Startup	0.75	7,280.00	5,460.00
Oakland Shores WTP PCP Mods, Termination, and Startup	0.75	6,980.00	5,235.00
Weathersfield WTP RTU, PCP Mods, Termination, and Startup	0.75	7,530.00	5,647.50
Jansen WTP RTU, PMP, PCP Mods, Termination, and Startup	0.3	19,980.00	5,994.00
Little Wekiva WTP RTU, PCP, PMP, OIT, Termination and Startup	0.3	38,870.00	11,661.00
Software (HMI and RTUs)	0	22,650.00	0.00
Spares	0	1,860.00	0.00
Subtotal of above			64,495.00
Less Retainage held at		-10.00%	-6,449.50

Terms	Net 15
Total	\$58,045.50

01000010010001010101010001010100010001000101010010

BILL BAHLER

## THOMPSON ELECTRIC, LLC

PO BOX 2531 INVERNESS, FL 34451

PHONE: (352) 637-0702 ▲ FAX: (352) 637-0702 ▲ CELL: (407) 947-9499

Email: bill.bahler@thompstonelecfl.com

### INVOICE

3001051  
PD# 216660  
Recpt# 235684

Date: September 12, 2016

Invoice #: TE16-020-002

Ordered By: Bryan Gongre

Field Contact: N/A

Business Unit #:

OP #:

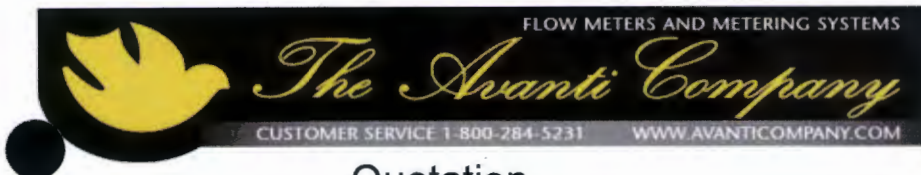
BILL TO: Utilities Inc. of Florida  
Attention: Accounts Payable  
2335 Sanders Road  
Northbrook, IL 60062

NAME OF PROJECT: UIF, Misc. WTP Improvements and RTU Additions

DESCRIPTION		AMOUNT	
•Labor and material to install the Phillips WTP Scada system •Labor and material to install the Oakland Shores WTP Scada system			
See Attached-"Contractor's Application for Payment" for breakdown	10% Complete	\$	8,224.25
Our Job No: J16-020			
Subtotal		\$	8,224.25
10% Retainage		\$	(822.43)
TOTAL DUE		\$	7,401.82

*Make checks Payable to:* Thompson Electric, LLC  
*Remit to:* PO Box 2531 Inverness, FL 34451

THANK YOU FOR YOUR BUSINESS!



## Quotation


22 South Lake Avenue  
Avon Park, FL 33825-3902  
[www.avanticompany.com](http://www.avanticompany.com)

Toll Free: 1-800-284-5231  
Fax: 863-453-0085  
E-Mail: [info@avanticompany.com](mailto:info@avanticompany.com)

To: Mr. Bryan K. Gongre  
Utilities, Inc.  
200 Weathersfield Avenue  
Altamonte Springs, FL 32714  
[bkgongre@uiwater.com](mailto:bkgongre@uiwater.com)

We are pleased to quote the following:

Quote # TD-100416-01-01  
Date 10/4/16  
Terms Net 30 days  
Prices FOB Hemet, Ca.  
Delivery 3-4 weeks  
Phone # 800-272-1919  
x 1360  
Fax # 407-869-6961  
Reference # \_\_\_\_\_

Item	Quantity	Description	Unit Price	Total
A	1	<b><u>Weathersfield</u></b> Water Specialties Model TR-15-R totalizer transmitter retrofit kit, 4-20mA output for existing 8" ML-T1 s/n 20051057	\$1,016.00	\$1,016.00
B	1	<b><u>Oakland Shores</u></b> Water Specialties Model TR-15-R totalizer transmitter retrofit kit, 4-20mA output for existing 4" ML-03 s/n 20073384	\$1,016.00	\$1,016.00
C	1	<b><u>Bear Lake</u></b> Water Specialties 3" Model ML-04 150 PSI flanged end tube propeller meter, includes Model TR16 indicator-totalizer transmitter 4-20mA output <b>*standard 18" flange x flange dimension</b>	\$2,900.00	\$2,900.00
D	1	<b><u>Jansen Well# 1</u></b> Water Specialties 4" Model ML-04 150 PSI flanged end tube propeller meter, includes Model TR16 indicator-totalizer transmitter 4-20mA output <b>*standard 18" flange x flange dimension</b>	\$3,046.00	\$3,046.00
E	1	<b><u>Jansen Well# 2</u></b> Water Specialties 6" Model ML-04 150 PSI flanged end tube propeller meter, includes Model TR16 indicator-totalizer transmitter 4-20mA output <b>*standard 22" flange x flange dimension</b>	\$3,191.00	\$3,191.00
F	2	On-site transmitter upgrade installations by an Avanti Company Certified Technician, Weathersfield & Oakland Shores	\$200.00	\$400.00
				Plus Freight
Quoted By:  (Tim Devlin) / Accepted By: _____				

Prices quoted above are current prices in effect and are subject to acceptance within 30 days from the above date, and are firm on an order resulting from this quote scheduled to ship within 60 days from date of order entry. All items quoted will be produced in strict accordance to any Government Regulation in effect including Fair Labor-Standards Act, OSHA, and Equal Employment Opportunity Executive orders. Delivery schedules are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control.

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-37**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<b>New Project</b>		<b>Assigned Project #:</b> 2015082	
<b>Requested by:</b>	Bryan K. Gongre <i>Project Manager / Area Manager</i>			<b>Date:</b>	4/13/2015
<b>Project Name:</b>	Eng - UIF WM Replacements				
<b>Company:</b>	252	Utilities Inc of Florida			
<b>Business Unit:</b>	252100	Seminole/Orange Cost Center			
<b>Project Owner:</b>	John Hoy			<b>BU Type:</b>	OH
<b>Project Manager:</b>	Bryan K. Gongre			<b>Budget Owner / RVP:</b>	John Hoy 03
<b>Start Date:</b>	4/20/2015	Q2 2015	<b>Region:</b> Florida 04		
<b>Estimated End Date:</b>	9/1/2015	Q3 2015	<b>State:</b> FL		
<b>Project Type:</b>	Maintenance				
<b>Will project replace/retire any assets:</b>	Yes				
<b>Previously Requested:</b>					
<b>This Request:</b>	\$57,050				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	\$57,050				
<b>Description:</b>					
<p>There are seven (7) UIF water systems that have been in service for 40+ years within the Seminole/Orange county area of Central Florida that include a combination of asbestos cement and galvanized iron water mains of various sizes. The asbestos cement water mains have approached the terminal end of their service life. The galvanized water mains, mainly 2" in diameter, have become turberculated over time from mineral deposits and thus reduced their carrying capacity resulting in a reduction in pressure and volume at the tap. The galvanized water mains also contribute to water quality issues related to color from iron deposits. This project will provide for the design of bid level plans and permitting of construction through FDEP. The water systems to be designed are; Bear Lake, Little Wekiva, Crescent Heights, Oakland Shores, Phillips, Crystal Lake and Ravenna Park/Lincoln Heights.</p>					
<b>Timeline Considerations:</b>					
<p>These projects are to be designed and bid out to coincide with the 3rd quarter rate filing for the UIF systems so the construction costs can be provided to the FPSC for rate recovery as a proforma project. FPSC rules allow capital projects completed within 24 months of the end of the TY to be included in the filing and added to rate base. This materially reduces regulatory lag.</p>					
<b>Inter-dependant Project</b>	<b>Project Number:</b>		<b>Project Name</b>	(If applicable)	
<b>Have engineering evaluations been performed?</b>	No		<b>Engineering project number</b>	(If applicable)	



**Justification and Benefits:**

The existing water mains within the seven (7) UIF systems are 40+ years old and have required a higher frequency of repairs over the last several years elevating O&M costs. Flushing of these systems occurs more frequently as a result of color issues and the potential for TTHM formation brought about by higher organics being present in tuberculated galvanized piping. Flushing impacts O&M costs for chemicals, power consumption and wear and tear, and decreases the available allocation under the Consumptive Use Permit issued by the SJRWMD.

Replacing the existing water mains, gate valves and service lines will decrease O&M costs, improve reliability, decrease the number of PBWNs issued as a result of repairs that require portions of or an entire system to be isolated, improve water quality and provide for sections of the system to be isolated in the future without affecting more connections than necessary. All of these items improve customer satisfaction.

**Risk Evaluation**

Risks include constructability issues that may elevate the project costs such as a requirement to remove and dispose of the existing asbestos cement water mains as opposed to abandoning the water mains in place and grout filling. Elevated customer complaints during the construction phase that will be addressed through communication. FPSC staff identifying the project as imprudent and thus put recovery of the investment at risk.

**Alternatives Considered:**

Stretch the main replacements out over a longer term. This strategy would trigger the need to file multiple rate cases for recovery purposes resulting in additional rate case expense even if a Limited Proceeding docket is filed.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	\$57,050				
Project Spend in Current Plan					
Variance	(57,050)	-	-	-	-
CIAC Collected					
Net Rate Base	57,050	57,050	57,050	57,050	57,050

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--	--

### Financial Justification

Customer counts as of 12/31/14:

Bear Lake	233
Little Wekiva	61
Crescent Heights	284
Oakland Shores	231
Phillips	85
Crystal Lake	182
Ravenna Park	355
TOTAL	1,431
Seminole Co.	2,475
Orange Co.	331
TOTAL	3,076

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(4)	(2)
1,431	3,076

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(332)	(1,327)	(1,327)	(1,327)	(1,327)
Under-recovery on capital B/(W)	(1,063)	(4,154)	(4,055)	(3,955)	(3,856)
Net EBIT Impact B/(W)	(1,395)	(5,481)	(5,382)	(5,282)	(5,183)

### Timing and Supporting Information on Rate Recovery

A UIF rate case is included in our 2015 financial model and capex plan. UIF systems are located in 5 counties, all of which will be included in the rate case (Marion, Orange, Pasco, Pinellas and Seminole).

### Regulatory Plan Implications

This project has been added to the 2015 capital plan. Once the permitting is completed, the projects will be bid out. Each project will be brought back to the CPRT for consideration and discussion prior to proceeding with construction. An estimated project cost has been established in the financial model for the seven projects.

### Assumptions



No

Bid	Company	Amount	Selected
1	CPH	\$57,050	Yes
2			
3			

[Go to Reference List](#)

\_\_\_\_\_



## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

4/16/2015

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

Be sure that the scope of work includes consideration of soil conditions.

Response: the engineer's quote identifies that a soils investigation would be done by a subconsultant if required or requested by UIF.

### FP&A Review

Review Completed by

Christie Kincaid

Date:

4/22/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan Gongre

Date:

4/29/2015

☒

VP Operations:

Patrick C. Flynn

Date:

4/29/2015

☒

President:

John P. Hoy

Date:

5/4/2015

☐

Approval or Re-Direction Comments



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees





for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
Tasks 4	
Bidding	\$1,500.00
Total	\$60,665.00

5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

**Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services are not included in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

**Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
Total Contract		\$75,665.00



CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is written over a light blue rectangular background.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**  
Utilities Inc. of Florida

\_\_\_\_\_

**Date:** \_\_\_\_\_

#### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Raw Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

**Survey Fee Area 1: \$2,375.00**

**Survey Fee Area 2: \$3,675.00**

## SURVEY SITE EXHIBIT

Area 1



Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.



Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stroppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement  
 Oranole Road, Orlando, FL  
 Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

#### SCOPE OF WORK:

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	110 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
---	--	--	---	--	--

Licenses: PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
 Certifications: EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician

6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.

**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:** \$3,696.00

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5)** \$1,920.00

\$438.00 Asphalt/Concrete/Each (anticipate 0)

**M.O.T. (SSMC)** (Required for roadway test holes)

\$576.00 per Lane Closure/Day Rate

\$768.00 per Lane Closure/Night Rate

**Permitting:** (If required for roadway test holes)

\$94.00 per hour + cost of permit

**Police Officer:** (Required)

\$50.00 per hour (estimate 0)

**Anticipated Project Total:** \$5,616.00

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards  
Utility Division Project Manager

MSS:gac

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
Fax: 407-292-0141  
Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

The person executing this document **must indicate** that he/she is a Principal and/or Corporate Officer.

If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.

**ACCEPTED BY:**

/

Principal / or Corporate Officer	TITLE	Printed Name	Date
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**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-38**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



**ADD-CHANGE FORM**

<b>New Project or Budget Change?</b>		<input type="text" value="New Project"/>		<b>Assigned Project #</b> <input type="text"/>	
<b>Requested by:</b>		<input type="text" value="Bryan K. Gongre"/> <i>Project Manager / Area Manager</i>		<b>Date:</b> <input type="text" value="8/25/2016"/>	
<b>Project Name:</b>		<input type="text" value="Bear Lake WM Replacements"/>			
<b>Company:</b>		<input type="text" value="252"/>	<input type="text" value="Utilities Inc of Florida"/>		
<b>Business Unit:</b>		<input type="text" value="252121"/>	<input type="text" value="Bear Lake Manor"/>		
<b>Project Owner:</b>		<input type="text" value="Patrick C. Flynn"/>		<b>BU Type:</b>	<input type="text" value="WP"/>
<b>Project Manager:</b>		<input type="text" value="Bryan K. Gongre"/>		<b>Budget Owner / RVP:</b>	<input type="text" value="John Hoy"/> 03
<b>Start Date:</b>		<input type="text" value="9/5/2016"/>	<input type="text" value="Q3 2016"/>	<b>Region:</b>	<input type="text" value="Florida"/> 04
<b>Estimated End Date:</b>		<input type="text" value="3/30/2017"/>	<input type="text" value="Q1 2017"/>	<b>State:</b>	<input type="text" value="FL"/>
<b>Project Type:</b>		<input type="text" value="Maintenance"/>			
<b>Will project replace/retire any assets:</b>		<input type="text" value="Yes"/>			
<b>Previously Requested:</b> <input type="text"/>					
<b>This Request:</b>		<input type="text" value="\$1,495,127"/>			
<b>Still to be Requested:</b> <input type="text"/>					
<b>Total Project Budget:</b>		<input type="text" value="\$1,495,127"/>			
<b>Description:</b>					
<div style="border: 1px solid black; padding: 5px;"><p>Remove and replace the following items that are located within the Seminole County right-of-way:</p><ul style="list-style-type: none"><li>A. 1,600 LF of 2" galvanized water main</li><li>B. 14,800 LF of 4" asbestos cement water main</li><li>C. 4 each 2" gate valves</li><li>D. 26 each 4" gate valves</li><li>E. 4 each 2" blow offs</li><li>F. 225 water services</li><li>G. 120 driveway sections .</li></ul><p>Production of a right-of-way survey, an as-built survey, right-of-way permitting, and asset tables that are in conformance with GIS nomenclature and format are included.</p><p>CEI services will be utilized to support right-of-way permitting, production of as-built drawings, field inspections during construction and contract bidding services.</p></div>					
<b>Timeline Considerations:</b>					
<div style="border: 1px solid black; padding: 5px;"><p>This project is one of six water main replacement projects in Seminole County and one in Orange County that are similar in scope and timing. Engineering services are completed and all permits excluding Seminole and Orange County right-of-way have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.</p></div>					
<b>Inter-dependant Project</b>		<b>Project Number:</b> <input type="text"/>		<b>Project Name</b> <input type="text"/> (If applicable)	
Have engineering evaluations been performed?		<input type="text" value="Yes"/>	<b>Engineering project numbe</b>		<input type="text" value="2015082"/> (If applicable)

**Justification and Benefits:**

The Bear Lake water system serves 224 connections and was originally built in 1958 and is thus 58 years old. The system is comprised of Asbestos Cement (AC) and galvanized iron pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat and bronze body wheel handle gate valves that are damaged and difficult to operate. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. Over time organic growth has occurred within the distribution system contributing to water quality complaints and elevated TTHM/HAA5 levels, particularly within the areas that have galvanized pipe material. There are no fire hydrants or significant flushing points to adequately maintain the system. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR of which the first two methods elevate the risk of a potential break.

Seminole County requires that the Utility remove all existing water mains located within their right-of-way except mains under county roads that can be grouted in place. All AC pipe must be removed and disposed of by a certified asbestos abatement contractor in a Class I landfill.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With new gate valves in place at the appropriate location and configuration, staff will be able to isolate portions of the distribution systems when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance and poses the potential for reduced TTHM/HAA5 levels. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform to provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers. Naturally occurring organics in the groundwater, when combined with chlorine, will elevate TTHM/HAA5 levels above MCL's. By replacing the water mains, gate valves and service connections reliability will be greatly improved, water quality will be improved and TTHM/HAA5 levels should be reduced.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response, property damage, and restoration.

**Technical Review Summary:**

Project reviewed by CPRT on 8/25/2016. No comments or revisions.

Capital Plan	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	
Proposed Project Spend	1,495,127					
Project Spend in Current Plan	900,000					
Variance	(595,127)	-	-	-	-	
CIAC Collected						(if applicable)
Net Rate Base	1,495,127	1,495,127	1,495,127	1,495,127	1,495,127	

## O&M Cost Impact B/(W)

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## Financial Justification

This project is a proforma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

## Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(66)	(66.50)
2,684	2,684.00

## Utility Financial Impact

O&M Impact on EBITDA B/(W)  
 Depreciation Impact on EBIT B/(W)  
 Under-recovery on capital B/(W)  
 Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-
(37,378)	(74,756)	(74,756)	(74,756)	(74,756)
(27,333)	(103,724)	(98,118)	(92,511)	(86,904)
(64,711)	(178,481)	(172,874)	(167,267)	(161,661)

## Timing and Supporting Information on Rate Recovery

This project is a proforma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

## Regulatory Plan Implications

## Assumptions





**Yes**

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$1,485,269	Yes
2	Central Florida Tapping	\$1,707,721	No
3	ECO-2000	\$1,571,228	No

**Component:**

Amount

### Value Bid Elements

1,485,269.00

## Engineering

### Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

**CPH Engineers (CEI, As Built, ROW Permits)**

9,858.00

### Total Project Budget

1,495,127.00

**Object Account(s) to which project will be closed:**

1125

1130

## Trans & Distr Mains

## Service Lines

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

**General Comments:**

\_\_\_\_\_



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/29/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Bryan K. Gongre Date: 8/25/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/25/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/30/2016 ☒

President:  Date:  ☐

### Approval or Re-Direction Comments



### UIF Water Main System Improvements Bid Results

<b>Area 1</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

<b>Area 2</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

<b>Area 3</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00

CENTRAL Florida TAPPING

**Utilities Inc. of Florida**  
 Bear Lake Manor System  
 Engineer's Bid Schedule  
 CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	25,000.00	25,000.00
2	Preconstruction Video	LS	1	2,500.00	2,500.00
3	Project Layout and Utility Locates	LS	1	30,000.00	30,000.00
4	Utility Maintenance of Traffic	LS	1	19,000.00	19,000.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	240	1,000.00	240,000.00
6	Furnish & Install 2" WM	LF	1,600	25.00	40,000.00
7	Furnish & Install 4" WM	LF	14,800	30.00	444,000.00
8	Furnish & Install Fittings	TON	3	5,500.00	16,500.00
9	Furnish & Install 2" Gate Valve	EA	4	750.00	3,000.00
10	Furnish & Install 4" Gate Valve	EA	26	1,100.00	28,600.00
11	Furnish & Install 4" Tapping Sleeve and Valve	EA	1	2,950.00	2,950.00
12	Furnish & Install 2" Blow Off	EA	4	1,700.00	6,800.00
13	Remove and Replace Driveway	EA	120	1,900.00	228,000.00
<b>Demolition</b>					
14	Remove Existing Water Main	LF	16,400	35.00	574,000.00
15	Remove Valve	EA	23	240.00	5,520.00
	<b>Subtotal</b>				1,664,770.00
	<b>Permit Fee (2.58%)</b>				42,951.07
	<b>Total Bid</b>				1,707,721.07

**Utilities Inc. of Florida**

Bear Lake Manor System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	32750.00	32,750.00
2	Preconstruction Video	LS	1	7500.13	7500.13
3	Project Layout and Utility Locates	LS	1	8953.00	8953.00
4	Utility Maintenance of Traffic	LS	1	16500.00	16500.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	240	1250.00	300,000.00
6	Furnish & Install 2" WM	LF	1,600	17.50	28,000.00
7	Furnish & Install 4" WM	LF	14,800	19.95	295,260.00
8	Furnish & Install Fittings	TON	3	5000.00	15,000.00
9	Furnish & Install 2" Gate Valve	EA	4	1000.00	4,000.00
10	Furnish & Install 4" Gate Valve	EA	26	1500.00	39,000.00
11	Furnish & Install 4" Tapping Sleeve and Valve	EA	1	4500.00	4,500.00
12	Furnish & Install 2" Blow Off	EA	4	1250.00	5,000.00
13	Remove and Replace Driveway	EA	120	3000.00	360,000.00
<b>Demolition</b>					
14	Remove Existing Water Main	LF	16,400	20.00	328,000.00
15	Remove Valve	EA	23	150.00	3,450.00
	<b>Subtotal</b>				1,447,913.13
	<b>Permit Fee (2.58%)</b>				37,356.16
	<b>Total Bid</b>				1,485,269.29

**Utilities Inc. of Florida**

Bear Lake Manor System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	\$48,447.00	\$48,447.00
2	Preconstruction Video	LS	1	\$3,400.00	\$3,400.00
3	Project Layout and Utility Locates	LS	1	\$37,386.00	\$37,386.00
4	Utility Maintenance of Traffic	LS	1	\$18,000.00	\$18,000.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	240	\$650.00	\$156,000.00
6	Furnish & Install 2" WM	LF	1,600	\$28.00	\$44,800.00
7	Furnish & Install 4" WM	LF	14,800	\$32.00	\$473,600.00
8	Furnish & Install Fittings	TON	3	\$20,000.00	\$60,000.00
9	Furnish & Install 2" Gate Valve	EA	4	\$650.00	\$2,600.00
10	Furnish & Install 4" Gate Valve	EA	26	\$1,523.00	\$39,598.00
11	Furnish & Install 4" Tapping Sleeve and Valve	EA	1	\$5,200.00	\$5,200.00
12	Furnish & Install 2" Blow Off	EA	4	\$1,890.00	\$7,560.00
13	Remove and Replace Driveway	EA	120	\$1,400.00	\$168,000.00
<b>Demolition</b>					
14	Remove Existing Water Main	LF	16,400	\$28.00	\$459,200.00
15	Remove Valve	EA	23	\$300.00	\$6,900.00
	<b>Subtotal</b>				\$1,530,691.00
	<b>Permit Fee (2.58%)</b>				\$40,537.68
	<b>Total Bid</b>				\$1,571,228.68

**SECTION 00520**  
**AGREEMENT FORM**

**PART 1 GENERAL**

**1.01 THIS AGREEMENT**, made this 26th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Traverse Group, Inc., doing business as a Corporation and hereinafter called the Contractor.

**1.02 The Owner and Contractor agree as follows:**

**A. Contract Documents**

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

**B. Scope of Work**

The Contractor shall perform all work required by the Contract Documents for the construction of the Bear Lake WM Replacement

**C. Contract Time**

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 120 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.



D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of One million four hundred eighty five thousand two hundred sixty nine dollars & 29/100's Dollars (\$ 1,485,269.29). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

**IN WITNESS WHEREOF**, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Traverse Group, Inc.  
Name of Firm



By (Signature)

Alex Schaefer, President  
Printed Name and Title

Alicia Roehn, Corporate Secretary

(SEAL)

ATTEST:



By (Signature)

Alex Schaefer - Mgr

Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner



By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:



By (Signature)

Lisa August

Printed Name and Title

**END OF SECTION**



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees



for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

#### 4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
<b>Tasks 4</b>	
Bidding	\$1,500.00
<b>Total</b>	<b>\$60,665.00</b>

#### 5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

#### **Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services *are not included* in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein *are not included* in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

#### **Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
Total Contract		\$75,665.00



CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is positioned above the printed name of James R. Morris, Jr.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**  
Utilities Inc. of Florida

\_\_\_\_\_

**Date:** \_\_\_\_\_



#### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Raw Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

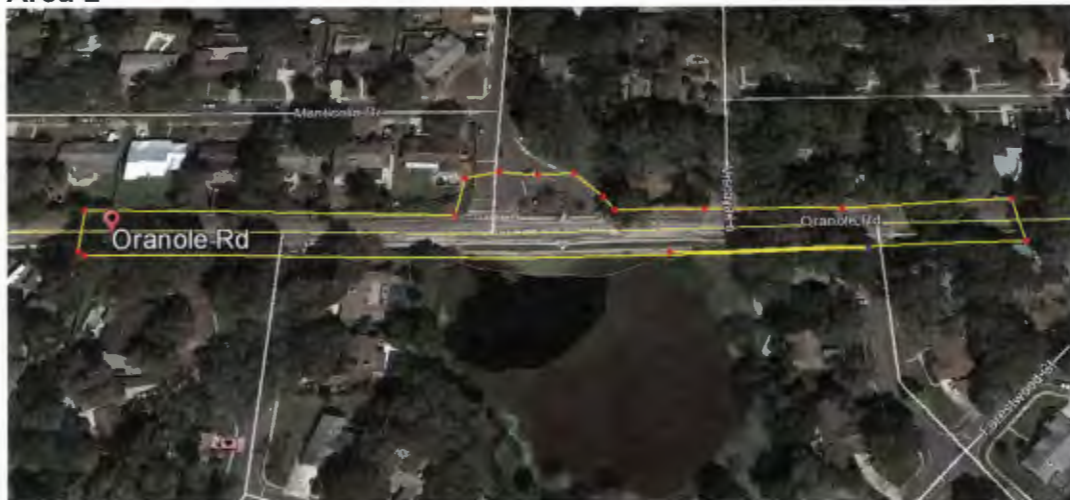
**Survey Fee Area 1: \$2,375.00**  
**Survey Fee Area 2: \$3,675.00**

## SURVEY SITE EXHIBIT

### Area 1



### Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.

Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stroppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement**  
**Oranole Road, Orlando, FL**  
**Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

**SCOPE OF WORK:**

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
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**Licenses:** PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
**Certifications:** EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician



6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.



**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:** **\$3,696.00**

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5) \$1,920.00**

\$438.00 Asphalt/Concrete/Each (anticipate 0)

M.O.T. (SSMC) (Required for roadway test holes)

\$576.00 per Lane Closure/Day Rate

\$768.00 per Lane Closure/Night Rate

Permitting: (If required for roadway test holes)

\$94.00 per hour + cost of permit

**Police Officer:** (Required)

\$50.00 per hour (estimate 0)

**Anticipated Project Total:** **\$5,616.00**

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards  
Utility Division Project Manager

MSS:gac

Page 4  
Mr. Jay Morris, P.E.  
Oakland Shores Water Main Replacement  
June 20, 2016

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
**Fax: 407-292-0141**  
**Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)**

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

**The person executing this document **must indicate** that he/she is a Principal and/or Corporate Officer.**

**If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.**

**ACCEPTED BY:**

/

Principal / or Corporate Officer	TITLE	Printed Name	Date
----------------------------------	-------	--------------	------

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-39**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

## New Project or Budget Change?

New Project

Assigned Project #

## Requested by:

Bryan K. Gongre

Date:

8/16/2016

Project Manager / Area Manager

## Project Name:

Crystal Lake WM Replacement

## Company:

252

Utilities Inc of Florida

## Business Unit:

252117

Crystal Lake

## Project Owner:

Patrick C. Flynn

BU Type:

WP

## Project Manager:

Bryan K. Gongre

Budget Owner / RVP:

John Hoy

03

## Start Date:

9/5/2016

Q3 2016

Region:

Florida

04

## Estimated End Date:

3/31/2017

Q1 2017

State:

FL

## Project Type:

Maintenance

## Will project replace/retire any assets:

Yes

## Previously Requested:

## This Request:

\$1,585,933

## Still to be Requested:

## Total Project Budget:

\$1,585,933

## Description:

Remove and replace the following items that are located within the Seminole County right-of-way:

- A. 800 LF of 2" galvanized water main
- B. 12,100 LF of 4" asbestos cement water main
- C. 5,600 LF of 6" asbestos cement water main
- D. 2 each 2" gate valves
- E. 22 each 4" gate valves
- F. 2 each 6" gate valves
- G. 7 each 2" blow offs
- H. 182 water services
- I. 95 driveway sections

Construct 6" interconnect between the Crystal Lake service area and the Phillips service area.

Production of a right-of-way survey, an as-built survey, right-of-way permitting and asset tables that are in conformance with GIS nomenclature and format are included.

CEI services will be utilized to support right-of-way permitting, production of as-built drawings, field inspections during construction and contract bidding services.

## Timeline Considerations:

This project is one of six water main replacement projects in Seminole County and one in Orange County that are similar in scope and timing. Engineering services are completed and all permits excluding Seminole and Orange County right-of-way have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.

## Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

2015082

(If applicable)

**Justification and Benefits:**

The Crystal Lake water system serves 182 connections and was originally built in 1955 and is thus 61 years old. The system is comprised of Asbestos Cement (AC) and galvanized iron pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat and bronze body wheel handle gate valves that are damaged and difficult to operate. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. Over time organic growth has occurred within the distribution system contributing to water quality complaints. There are no fire hydrants or significant flushing points to adequately maintain the system. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR of which the first two methods elevate the risk of a potential break. Some galvanized mains are located in a rear easement with water meters being inaccessible for reading and maintenance purposes.

Seminole County requires the Utility to remove all existing water mains located within the right-of-way except mains under county roads that can be grouted in place. All AC pipe must be removed and disposed of by a certified asbestos abatement contractor in a Class I landfill.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With new gate valves at the appropriate location and configuration, staff will be able to isolate portions of the distribution system when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance. Water meters located within the rear easement will be relocated to the street side in the right of way making them accessible. Crystal Lake will be interconnected to the Phillips system, which will add greater system reliability and improved hydraulics. The Phillips system will then be merged under Ravenna Park as is Crystal Lake today. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform to provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers. Naturally occurring organics in the groundwater, when combined with chlorine, will elevate TTHM/HAA5 levels. By replacing the water mains, gate valves and service connections reliability will be greatly improved and water quality will be improved.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response, property damage, and restoration.

**Technical Review Summary:**

Project reviewed by CPRT on 8/25/2016. No comments or revisions.



Capital Plan	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	1,585,933				
Project Spend in Current Plan	400,000				
Variance	(1,185,933)	-	-	-	-
CIAC Collected					
Net Rate Base	1,585,933	1,585,933	1,585,933	1,585,933	1,585,933
O&M Cost Impact B/(W)					

(if applicable)

**Financial Justification**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

Served	Rate Payers
(71)	(70.54)
2,684	2,684

**Utility Financial Impact**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(39,648)	(79,297)	(79,297)	(79,297)	(79,297)
Under-recovery on capital B/(W)	(28,993)	(110,024)	(104,077)	(98,130)	(92,182)
Net EBIT Impact B/(W)	(68,641)	(189,321)	(183,374)	(177,426)	(171,479)

**Timing and Supporting Information on Rate Recovery**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Regulatory Plan Implications**

**Assumptions**



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$1,810,693	No
2	Central Florida Tapping	\$1,862,191	No
3	ECO-2000	\$1,573,700	Yes

### Component:

### Amount

Value Bid Elements

1,573,700.00

should match selected bid(s) amount

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

CPH Engineers (CEI, As Built, ROW Permits)

12,233.00

Total Project Budget

1,585,933.00

should match Total Budget on General Information

Object Account(s) to which project will be closed:

1125

1130

Trans & Distr Mains

Service Lines

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

General Comments:



## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

8/25/2016

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by

Bryan K. Gongre

Date:

8/25/2016

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan K. Gongre

Date:

8/25/2016

☒

VP Operations:

Patrick C. Flynn

Date:

8/30/2016

☒

President:

Date:

☐

### Approval or Re-Direction Comments

### UIF Water Main System Improvements Bid Results

Area 1	CFT	TG	Eco
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

Area 2	CFT	TG	Eco
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

Area 3	CFT	TG	Eco
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00

**Utilities Inc. of Florida**

Crystal Lake System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	95000.00	95000.00
2	Preconstruction Video	LS	1	11500.00	11500.00
3	Project Layout and Utility Locates	LS	1	9500.00	9500.00
4	Utility Maintenance of Traffic	LS	1	25000.00	25000.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	195	1450.00	282750.00
6	Furnish & Install 2" WM	LF	800	24.50	19600.00
7	Furnish & Install 4" WM	LF	12.100	25.50	308550.00
8	Furnish & Install 6" WM	LF	5.600	29.75	166600.00
9	Furnish & Install 6" WM HDPE by HDD at SR 46A	LF	180	35.85	6453.00
10	Furnish & Install Fittings	TON	4	7500.00	30,000.00
11	Furnish & Install 2" Gate Valve	EA	2	1100.00	2200.00
12	Furnish & Install 4" Gate Valve	EA	22	1250.00	27500.00
13	Furnish & Install 2" Blow Off	EA	7	2000.00	14000.00
14	Remove and Replace Driveway	EA	95	3200.00	304000.00
<b>Demolition</b>					
15	Remove Existing Water Main	LF	18,400	25.00	460000.00
16	Remove Valve	EA	10	250.00	2500.00
	<b>Subtotal</b>				1,765,153.00
	<b>Permit Fee (2.58%)</b>				45,540.95
	<b>Total Bid</b>				1,810,693.95



**Utilities Inc. of Florida**

Crystal Lake System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	\$62,880.00	\$62,880.00
2	Preconstruction Video	LS	1	\$6,427.00	\$6,427.00
3	Project Layout and Utility Locates	LS	1	\$32,000.00	\$32,000.00
4	Utility Maintenance of Traffic	LS	1	\$20,486.00	\$20,486.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	195	\$550.00	\$107,250.00
6	Furnish & Install 2" WM	LF	800	\$18.00	\$14,400.00
7	Furnish & Install 4" WM	LF	12,100	\$28.00	\$338,800.00
8	Furnish & Install 6" WM	LF	5,600	\$32.00	\$179,200.00
9	Furnish & Install 6" WM HDPE by HDD at SR 46A	LF	180	\$65.00	\$11,700.00
10	Furnish & Install Fittings	TON	4	\$20,000.00	\$80,000.00
11	Furnish & Install 2" Gate Valve	EA	2	\$650.00	\$1,300.00
12	Furnish & Install 4" Gate Valve	EA	22	\$1,523.00	\$33,506.00
13	Furnish & Install 2" Blow Off	EA	7	\$1,850.00	\$12,950.00
14	Remove and Replace Driveway	EA	95	\$1,200.00	\$114,000.00
<b>Demolition</b>					
15	Remove Existing Water Main	LF	18,400	\$28.00	\$515,200.00
16	Remove Valve	EA	10	\$300.00	\$3,000.00
	<b>Subtotal</b>				\$1,533,099.00
	<b>Permit Fee (2.58%)</b>				\$40,601.46
	<b>Total Bid</b>				\$1,573,700.46

**Utilities Inc. of Florida**

Crystal Lake System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	40,500.00	40,500.00
2	Preconstruction Video	LS	1	2,900.00	2,900.00
3	Project Layout and Utility Locates	LS	1	50,185.00	50,185.00
4	Utility Maintenance of Traffic	LS	1	22,000.00	22,000.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	195	1,000.00	195,000.00
6	Furnish & Install 2" WM	LF	800	26.00	20,800.00
7	Furnish & Install 4" WM	LF	12,100	31.00	375,100.00
8	Furnish & Install 6" WM	LF	5,600	50.00	280,000.00
9	Furnish & Install 6" WM HDPE by HDD at SR 46A	LF	180	125.00	22,500.00
10	Furnish & Install Fittings	TON	4	6,000.00	24,000.00
11	Furnish & Install 2" Gate Valve	EA	2	795.00	1,590.00
12	Furnish & Install 4" Gate Valve	EA	22	1,190.00	26,180.00
13	Furnish & Install 2" Blow Off	EA	7	1,500.00	10,500.00
14	Remove and Replace Driveway	EA	95	2,000.00	190,000.00
<b>Demolition</b>					
15	Remove Existing Water Main	LF	18,400	30.00	552,000.00
16	Remove Valve	EA	10	210.00	2,100.00
	<b>Subtotal</b>				1,815,355.00
	<b>Permit Fee (2.58%)</b>				46,836.16
	<b>Total Bid</b>				1,862,191.16

SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 THIS AGREEMENT, made this 26th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and ECO-2000, Inc., doing business as a Corporation and hereinafter called the Contractor.

1.02 The Owner and Contractor agree as follows:

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Crystal Lake WM Replacement

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 120 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of One million five hundred seventy three thousand seven hundred dollars & 00/100's Dollars (\$ 1,573,700.00). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

ECO-2000, Inc.  
Name of Firm

[Signature]  
By (Signature)

(SEAL)

Charlie Jones, President  
Printed Name and Title

ATTEST:

[Signature]  
By (Signature)

Maxwell D. Fort  
Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner

[Signature]  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

[Signature]  
By (Signature)

Susan M. D. Pasquale / Admin. Asst.  
Printed Name and Title

END OF SECTION





1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees



for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

#### 4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
<b>Tasks 4</b>	
Bidding	\$1,500.00
<b>Total</b>	<b>\$60,665.00</b>

#### 5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

#### **Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services are not included in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

#### **Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
<b>Total Contract</b>		<b>\$75,665.00</b>



CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is written over a light blue rectangular background.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**  
Utilities Inc. of Florida

**Date:** \_\_\_\_\_

#### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Rev Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

**Survey Fee Area 1: \$2,375.00**

**Survey Fee Area 2: \$3,675.00**



## SURVEY SITE EXHIBIT

### Area 1



### Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.

Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stroppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement  
 Oranole Road, Orlando, FL  
 Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

**SCOPE OF WORK:**

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
---	--	--	---	--	--

Licenses: PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
 Certifications: EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician

6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.

**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:                   \$3,696.00**

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5)   \$1,920.00**

\$438.00 Asphalt/Concrete/Each (anticipate 0)

M.O.T. (SSMC) (Required for roadway test holes)

\$576.00 per Lane Closure/Day Rate

\$768.00 per Lane Closure/Night Rate

Permitting: (If required for roadway test holes)

\$94.00 per hour + cost of permit

**Police Officer:** (Required)

\$50.00 per hour (estimate 0)

**Anticipated Project Total:   \$5,616.00**

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards

Utility Division Project Manager

MSS:gac



Page 4  
Mr. Jay Morris, P.E.  
Oakland Shores Water Main Replacement  
June 20, 2016

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
Fax: 407-292-0141  
Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

**The person executing this document must indicate that he/she is a Principal and/or Corporate Officer.**

**If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.**

**ACCEPTED BY:**

\_\_\_\_\_  
Principal / or Corporate Officer      TITLE      Printed Name      Date



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-40**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #

Requested by:

Bryan K. Gongre

Date:

8/16/2016

Project Manager / Area Manager

Project Name:

Little Wekiva WM Replacements

Company:

252

Utilities Inc of Florida

Business Unit:

252114

Little Wekiva

Project Owner:

Patrick C. Flynn

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP:

John Hoy

03

Start Date:

9/5/2016

Q3 2016

Region:

Florida

04

Estimated End Date:

3/31/2017

Q1 2017

State:

FL

Project Type:

Maintenance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$521,681

Still to be Requested:

Total Project Budget:

\$521,681

## Description:

Remove and replace the following items that are located within the Seminole County right-of-way:

- A. 1,350 LF of 2" galvanized water main
- B. 2,750 LF of 4" asbestos cement water main
- C. 6 each 4" GV's
- D. 4 each 2" blow offs
- E. 61 water services
- F. 35 driveway sections

Production of a right-of-way survey, an as-built survey, right-of-way permitting and asset tables that are in conformance with GIS nomenclature and format are included.

CEI services will be utilized to support right-of-way permitting, production of as-built drawings, field inspections during construction and contract bidding services.

## Timeline Considerations:

This project is one of six water main replacement projects in Seminole County and one in Orange County that are similar in scope and timing. Engineering services are completed and all permits excluding Seminole and Orange County right-of-way have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.

## Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

2015082

(If applicable)

**Justification and Benefits:**

The Little Wekiva water system serves 61 connections and was originally built in 1958 and is thus 58 years old. The system is comprised of Asbestos Cement (AC) and galvanized iron pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat and bronze body wheel handle gate valves that are damaged and difficult to operate. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. Over time organic growth has occurred with the distribution system contributing to water quality complaints. There are no fire hydrants or significant flushing points to adequately maintain the system. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR of which the first two methods elevate the risk of a potential break.

Seminole County requires the Utility to remove all existing water mains located within the right-of-way except mains under county roads that can be grouted in place. All AC pipe must be removed and disposed of by a certified asbestos abatement contractor in a Class I landfill.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With gate valves at the appropriate location and configuration, staff will be able to isolate portions of the distribution when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform to provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers. By replacing the water mains, gate valves and service connections reliability will be greatly improved and water quality will be improved.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response, property damage, and restoration.

**Technical Review Summary:**

Project reviewed by CPRT on 8/25/2016. No comments or revisions.



## Financial and Regulatory Implications

### Capital Plan

Proposed Project Spend  
Project Spend in Current Plan

#### Variance

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
521,681				
250,000				
(271,681)	-	-	-	-
521,681	521,681	521,681	521,681	521,681

(if applicable)

### O&M Cost Impact B/(W)

--	--	--	--	--

### Financial Justification

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(23)	(23.20)
2,684	2,684.00

### Utility Financial Impact

O&M Impact on EBITDA B/(W)  
Depreciation Impact on EBIT B/(W)  
Under-recovery on capital B/(W)  
Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-
(13,042)	(26,084)	(26,084)	(26,084)	(26,084)
(9,537)	(36,192)	(34,235)	(32,279)	(30,323)
(22,579)	(62,276)	(60,319)	(58,363)	(56,407)

### Timing and Supporting Information on Rate Recovery

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

### Regulatory Plan Implications

### Assumptions



Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$511,823	Yes
2	Central Florida Tapping	\$518,890	No
3	ECO-2000	\$550,273	No

**Component:**

Amount

### Value Bid Elements

511,823.00

## Engineering

### Direct Purchase of Parts / Materials

## Landscaping / Site Restoration

Other Components (specify):

### Cap Time

**CPH Engineers (CEI, As Built, ROW Permits)**

9,858.00

### Total Project Budget

**521,681.00**

**Object Account(s) to which project will be closed:**

1125

1130

## Trans & Distr Mains

## Service Lines

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

**General Comments:**

[illegible]





## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/29/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

#### Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2016

Approval to proceed Yes ☐ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Bryan K. Gongre Date: 8/25/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

#### Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/25/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/30/2016 ☒

President:  Date:  ☐

### Approval or Re-Direction Comments

### UIF Water Main System Improvements Bid Results

<b>Area 1</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

<b>Area 2</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

<b>Area 3</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00

*CENTRAL Florida Tapping*

**Utilities Inc. of Florida**

Little Wekiva System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	35,000.00	35,000.00
2	Preconstruction Video	LS	1	1,000.00	1,000.00
3	Project Layout and Utility Locates	LS	1	18,000.00	18,000.00
4	Utility Maintenance of Traffic	LS	1	7,500.00	7,500.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	67	1,200.00	80,400.00
6	Furnish & Install 2" WM	LF	1,350	24.00	35,100.00
7	Furnish & Install 4" WM	LF	2,750	35.00	96,250.00
8	Furnish & Install Fittings	TON	1	5,500.00	5,500.00
9	Furnish & Install 4" Gate Valve	EA	6	1,200.00	7,200.00
10	Furnish & Install 4" Tapping Sleeve & Valve	EA	1	2,950.00	2,950.00
11	Furnish & Install 2" Blow Off	EA	4	1,760.00	7,040.00
12	Remove and Replace Driveway	EA	35	2,100.00	73,500.00
<b>Demolition</b>					
13	Remove Existing Water Main	LF	3,900	35.00	136,500.00
<b>Subtotal</b>					505,840.00
<b>Permit Fee (2.58%)</b>					13,050.67
<b>Total Estimated Cost</b>					518,890.67

**Utilities Inc. of Florida**

Little Wekiva System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	29000.00	29000.00
2	Preconstruction Video	LS	1	5500.07	5500.07
3	Project Layout and Utility Locates	LS	1	9500.00	9500.00
4	Utility Maintenance of Traffic	LS	1	22500.00	22500.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	67	1350.00	90450.00
6	Furnish & Install 2" WM	LF	1,350	19.87	26824.50
7	Furnish & Install 4" WM	LF	2,750	27.50	75625.00
8	Furnish & Install Fittings	TON	1	7500.00	7500.00
9	Furnish & Install 4" Gate Valve	EA	6	1000.00	6000.00
10	Furnish & Install 4" Tapping Sleeve & Valve	EA	1	3750.00	3750.00
11	Furnish & Install 2" Blow Off	EA	4	1250.00	5000.00
12	Remove and Replace Driveway	EA	35	3200.00	112000.00
<b>Demolition</b>					
13	Remove Existing Water Main	LF	3,900	27.00	105300.00
	<b>Subtotal</b>				498950.17
	<b>Permit Fee (2.58%)</b>				12872.91
	<b>Total Estimated Cost</b>				511823.08

## Utilities Inc. of Florida

Little Wekiva System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	\$78,573.00	\$78,573.00
2	Preconstruction Video	LS	1	\$3,500.00	\$3,500.00
3	Project Layout and Utility Locates	LS	1	\$21,896.00	\$21,896.00
4	Utility Maintenance of Traffic	LS	1	\$31,359.00	\$31,359.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	67	\$950.00	\$63,650.00
6	Furnish & Install 2" WM	LF	1,350	\$28.00	\$37,800.00
7	Furnish & Install 4" WM	LF	2,750	\$36.00	\$99,000.00
8	Furnish & Install Fittings	TON	1	\$20,000.00	\$20,000.00
9	Furnish & Install 4" Gate Valve	EA	6	\$1,523.00	\$9,138.00
10	Furnish & Install 4" Tapping Sleeve & Valve	EA	1	\$5,400.00	\$5,400.00
11	Furnish & Install 2" Blow Off	EA	4	\$1,890.00	\$7,560.00
12	Remove and Replace Driveway	EA	35	\$1,400.00	\$49,000.00
<b>Demolition</b>					
13	Remove Existing Water Main	LF	3,900	\$28.00	\$109,200.00
<b>Subtotal</b>					\$536,076.00
<b>Permit Fee (2.58%)</b>					\$14,194.04
<b>Total Estimated Cost</b>					\$550,273.04



SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 **THIS AGREEMENT**, made this 26th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Traverse Group, Inc., doing business as a Corporation and hereinafter called the Contractor.

1.02 **The Owner and Contractor agree as follows:**

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Little Wekiva WM Replacement

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 90 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of Five hundred eleven thousand eight hundred twenty three dollars & 08/100's Dollars (\$ 511,823.08). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.


G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

**IN WITNESS WHEREOF**, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Traverse Group, Inc.  
Name of Firm

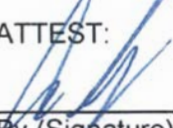
  
By (Signature)

(SEAL)

Alex Schaefer, President  
Printed Name and Title

Alicia Roehn, Corporate Secretary

ATTEST:

  
By (Signature)  
Alex Schaefer, Mayor  
Printed Name and Title

OWNER:

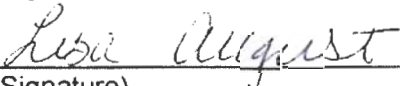
Utilities Inc. of Florida  
Name of Owner

  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

  
By (Signature)  
Lisa August  
Printed Name and Title

**END OF SECTION**



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees



for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
<b>Tasks 4</b>	
Bidding	\$1,500.00
<b>Total</b>	<b>\$60,665.00</b>

5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

**Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services are not included in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

**Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
Total Contract		\$75,665.00





CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is written over a light blue rectangular background.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**  
Utilities Inc. of Florida

\_\_\_\_\_

**Date:** \_\_\_\_\_

### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Raw Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

**Survey Fee Area 1: \$2,375.00**  
**Survey Fee Area 2: \$3,675.00**

## SURVEY SITE EXHIBIT

### Area 1



### Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.



Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



**Southeastern Surveying and Mapping Corporation**  
 Serving the Southeast Since 1972  
[www.southeasternsurveying.com](http://www.southeasternsurveying.com)  
[info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stroppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement**  
**Oranole Road, Orlando, FL**  
**Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

#### SCOPE OF WORK:

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
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**Licenses:** PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
**Certifications:** EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician



6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.

**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:                   \$3,696.00**

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5)   \$1,920.00**

**\$438.00 Asphalt/Concrete/Each (anticipate 0)**

**M.O.T. (SSMC) (Required for roadway test holes)**

**\$576.00 per Lane Closure/Day Rate**

**\$768.00 per Lane Closure/Night Rate**

**Permitting: (If required for roadway test holes)**

**\$94.00 per hour + cost of permit**

**Police Officer: (Required)**

**\$50.00 per hour (estimate 0)**

**Anticipated Project Total:   \$5,616.00**

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards  
Utility Division Project Manager

MSS:gac

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
Fax: 407-292-0141  
Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

**The person executing this document **must indicate** that he/she is a Principal and/or Corporate Officer.**

**If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.**

**ACCEPTED BY:**

/

Principal / or Corporate Officer	TITLE	Printed Name	Date
----------------------------------	-------	--------------	------

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. I60101-WS

**EXHIBIT PCF-41**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**



April 4, 2016

Bryan Gongre  
Utilities Inc., of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

Re:     Northwestern Force Main Replacement  
          Weathersfield Service Area

Dear Bryan:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc., of Florida ("Client") for providing services related to the relocating the force main from the Northwestern lift station. The force main is reaching the end of its useful life and needs to be replaced. There are a few options for replacing the force main which should be compared to determine the most cost effective route.

#### **Project Understanding**

It is our understanding that the existing force main is nearing the end of its useful life and needs to be replaced. Further, the existing route of the force main is no longer desirable and an alternate route needs to be determined. There are two viable routes. One route is south from the lift station along Northwestern Avenue to Oaklando Drive, then east on Oaklando to the connection point with the Altamonte Springs force main. This route is an estimated 2,500 linear feet. The second route goes north along Northwestern Avenue crossing the Little Wekiva River to a manhole at Veneer. This route is approximately 850 linear feet.

#### **Scope of Services**

Kimley-Horn will provide the services specifically set forth below.

##### **Task 1 – Force Main Design.**

This task is the preparation of plans and specifications for the selected force main route. The plans will be developed using aeriels and the County GIS base maps. Specific details for the route will be prepared for any profiles or cross sections necessary. Either route will require lift station improvements. The necessary lift station improvements will be designed and shall include the replacement of the pumps and panel. No additional improvements to the lift station is planned to be included in this project. Additional detail sheets will include the Utility's standard construction details and notes.

Technical specifications and bidding documents will be prepared. A private bid will be solicited from at least three contractors. Bid documents will be electronically distributed to bidders. Any questions during the bidding period will be addressed as needed. Bids will be received electronically, reviewed, and tabulated for consideration.

##### **Task 2 – Permitting.**

FDEP permitting will be required for this project for the force main route and the river crossing. A right



of way utilization permit will likely be required by Seminole County.

#### Task 3 – Construction Services.

This task will include any shop drawing review, responses to contractor questions, inspection of progress (as requested), review of final testing and clearance, and record drawing preparation.

#### Services Not Included

Any other services, including but not limited to the following, are not included in this Agreement:

- Surveying
- Geotechnical
- Structural

#### Additional Services

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates.

#### Information Provided By Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives.

#### Fee and Expenses

Kimley-Horn will perform the services in Tasks 1 - 3 for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Client.

Task 1 Force Main Relocation Design	\$13,000
Task 2 Permitting	\$4,000
Task 3 Construction Services	\$2,500
Total Lump Sum Fee	\$19,500

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

#### Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Utilities Inc., of Florida.


Kimley-Horn, in an effort to expedite invoices and reduce paper waste, submits invoices via email in an Adobe PDF format. We can also provide a paper copy via regular mail if requested. Please include the invoice number and Kimley-Horn project number with all payments.

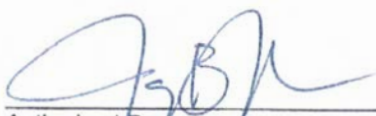
If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services only after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for ninety (90) days after the date of this letter.

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Very truly yours,

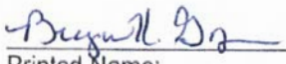
**KIMLEY-HORN AND ASSOCIATES, INC.**

  
By: Steve Romano, PE  
Sr. Project Manager

  
Authorized By: \_\_\_\_\_  
Title: S.V.P.

**AUTHORIZED BY:**

**UTILITIES INC., OF FLORIDA**

  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_

4/11/16  
Date

Attachment – Standard Provisions

KIMLEY-HORN AND ASSOCIATES, INC.

STANDARD PROVISIONS

(1) **Consultant's Scope of Services and Additional Services.** The Consultant's undertaking to perform professional services extends only to the services specifically described in this Agreement. However, if requested by the Client and agreed to by the Consultant, the Consultant will perform Additional Services, which shall be governed by these provisions. Unless otherwise agreed to in writing, the Client shall pay the Consultant for any Additional Services an amount based upon the Consultant's then-current hourly rates plus an amount to cover certain direct expenses including telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Other direct expenses will be billed at 1.15 times cost.

(2) **Client's Responsibilities.** In addition to other responsibilities described herein or imposed by law, the Client shall:

- (a) Designate in writing a person to act as its representative with respect to this Agreement, such person having complete authority to transmit instructions, receive information, and make or interpret the Client's decisions.
- (b) Provide all information and criteria as to the Client's requirements, objectives, and expectations for the project including all numerical criteria that are to be met and all standards of development, design, or construction.
- (c) Provide to the Consultant all previous studies, plans, or other documents pertaining to the project and all new data reasonably necessary in the Consultant's opinion, such as site survey and engineering data, environmental impact assessments or statements, upon all of which the Consultant may rely.
- (d) Arrange for access to the site and other private or public property as required for the Consultant to provide its services.
- (e) Review all documents or oral reports presented by the Consultant and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of the Consultant.
- (f) Furnish approvals and permits from governmental authorities having jurisdiction over the project and approvals and consents from other parties as may be necessary for completion of the Consultant's services.
- (g) Cause to be provided such independent accounting, legal, insurance, cost estimating and overall feasibility services as the Client may require.
- (h) Give prompt written notice to the Consultant whenever the Client becomes aware of any development that affects the scope, timing, or payment of the Consultant's services or any defect or noncompliance in any aspect of the project.
- (i) Bear all costs incidental to the responsibilities of the Client.

(3) **Period of Services.** Unless otherwise stated herein, the Consultant will begin work timely after receipt of a properly executed copy of this Agreement and any required retainer amount. This Agreement is made in anticipation of conditions permitting continuous and orderly progress through completion of the services. Times for performance shall be extended as necessary for delays or suspensions due to circumstances that the Consultant does not control. If such delay or suspension extends for more than six months (cumulatively), Consultant's compensation shall be renegotiated.

(4) **Method of Payment.** Compensation shall be paid to the Consultant in accordance with the following provisions:

- (a) Invoices will be submitted periodically for services performed and expenses incurred. Payment of each invoice will be due within 25 days of receipt. The Client shall also pay any applicable sales tax. All retainers will be held by the Consultant for the duration of the project and applied against the final invoice. Interest will be added to accounts not paid within 25 days at the maximum rate allowed by law. If the Client fails to make any payment due to the Consultant under this or any other agreement within 30 days after the Consultant's transmittal of its invoice, the Consultant may, after giving notice to the Client, suspend services and withhold deliverables until all amounts due are paid in full and may commence proceedings, including filing liens, to secure its right to payment under this Agreement.
- (b) If the Client relies on payment or proceeds from a third party to pay Consultant and Client does not pay Consultant's invoice within 60 days of receipt, Consultant may communicate directly with such third party to secure payment.
- (c) If the Client objects to an invoice, it must advise the Consultant in writing giving its reasons within 14 days of receipt of the invoice or the Client's objections will be waived, and the invoice shall conclusively be deemed due and owing. If the Client objects to only a portion of the invoice, payment for all other portions remains due within 25 days of receipt.
- (d) The Client agrees that the payment to the Consultant is not subject to any contingency or condition. The Consultant may negotiate payment of any check tendered by the Client, even if the words "in full satisfaction" or words intended to have similar effect appear on the check without such negotiation being an accord and satisfaction of any disputed debt and without prejudicing any right of the Consultant to collect additional amounts from the Client.

(5) **Use of Documents.** All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from



all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The Consultant's electronic files and source code developed in the development of application code remain the property of the Consultant and shall be provided to the Client only if expressly provided for in this Agreement. Any electronic files not containing an electronic seal are provided only for the convenience of the Client, and use of them is at the Client's sole risk. In the case of any defects in the electronic files or any discrepancies between them and the hardcopy of the documents prepared by the Consultant, the hardcopy shall govern. Because data stored in electronic media format can deteriorate or be modified without the Consultant's authorization, the Client has 60 days to perform acceptance tests, after which it shall be deemed to have accepted the data.

(6) **Opinions of Cost.** Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the Client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. Consultant's services required to bring costs within any limitation established by the Client will be paid for as Additional Services.

(7) **Termination.** The obligation to provide further services under this Agreement may be terminated by either party upon seven days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party, or upon thirty days' written notice for the convenience of the terminating party. If any change occurs in the ownership of the Client, the Consultant shall have the right to immediately terminate this Agreement. In the event of any termination, the Consultant shall be paid for all services rendered and expenses incurred to the effective date of termination, and other reasonable expenses incurred by the Consultant as a result of such termination. If the Consultant's compensation is a fixed fee, the amount payable for services will be a proportional amount of the total fee based on the ratio of the amount of the services performed, as reasonably determined by the Consultant, to the total amount of services which were to have been performed.

(8) **Insurance.** The Consultant carries Workers' Compensation insurance, professional liability insurance in the amount of \$2,000,000 per claim, and general liability insurance. If the Client directs the Consultant to obtain increased insurance coverage, the Consultant will take out such additional insurance, if obtainable, at the Client's expense.

(9) **Standard of Care.** The standard of care applicable to Consultant's services will be the degree of care and skill ordinarily exercised by consultants performing the same or similar services in the same locality at the time the services are provided. No warranty, express or implied, is made or intended by the Consultant's undertaking herein or its performance of services, and it is agreed that the Consultant is not a fiduciary with respect to the Client.

(10) **LIMITATION OF LIABILITY.** In recognition of the relative risks and benefits of the Project to the Client and the Consultant, the risks have been allocated such that the Client agrees, to the fullest extent of the law, and notwithstanding any other provisions of this Agreement or the existence of applicable insurance coverage, that the total liability, in the aggregate, of the Consultant and the Consultant's officers, directors, employees, agents, and subconsultants to the Client or to anyone claiming by, through or under the Client, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the services under this Agreement from any cause or causes, including but not limited to, the negligence, professional errors or omissions, strict liability or breach of contract or any warranty, express or implied, of the Consultant or the Consultant's officers, directors, employees, agents, and subconsultants, shall not exceed twice the total compensation received by the Consultant under this Agreement or \$50,000, whichever is greater. Higher limits of liability may be negotiated for additional fee. Under no circumstances shall the Consultant be liable for extra costs or other consequences due to changed conditions, or for costs related to the failure of contractors to perform work in accordance with the plans and specifications. This Section 10 is intended solely to limit the remedies available to the Client or those claiming by or through the Client, and nothing in this Section 10 shall require the Client to indemnify the Consultant.

(11) **Mutual Waiver of Consequential Damages.** In no event shall either party be liable to the other for any consequential, incidental, punitive, or indirect damages including but not limited to loss of income or loss of profits.

(12) **Certifications.** The Consultant shall not be required to execute certifications or third-party reliance letters that are inaccurate, that relate to facts of which the Consultant does not have actual knowledge, or that would cause the Consultant to violate applicable rules of professional responsibility.

(13) **Dispute Resolution.** All claims by the Client arising out of this Agreement or its breach shall be submitted first to mediation in accordance with the Construction Industry Mediation Procedures of the American Arbitration Association as a condition precedent to litigation.

(14) **Hazardous Substances and Conditions.** In no event shall Consultant be a custodian, transporter, handler,

arranger, contractor, or remediator with respect to hazardous substances and conditions. Consultant's services will be limited to professional analysis, recommendations, and reporting, including, when agreed to, plans and specifications for isolation, removal, or remediation. The Consultant shall notify the Client of hazardous substances or conditions not contemplated in the scope of services of which the Consultant actually becomes aware. Upon such notice by the Consultant, the Consultant may stop affected portions of its services until the hazardous substance or condition is eliminated.

**(15) Construction Phase Services.**

(a) If the Consultant's services include the preparation of documents to be used for construction and the Consultant is not retained to make periodic site visits, the Client assumes all responsibility for interpretation of the documents and for construction observation, and the Client waives any claims against the Consultant in any way connected thereto.

(b) If the Consultant provides construction phase services, the Consultant shall have no responsibility for any contractor's means, methods, techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall Consultant have any authority or responsibility to stop or direct the work of any contractor. The Consultant's visits will be for the purpose of endeavoring to provide the Client a greater degree of confidence that the completed work of its contractors will generally conform to the construction documents prepared by the Consultant. Consultant neither guarantees the performance of contractors, nor assumes responsibility for any contractor's failure to perform its work in accordance with the contract documents.

(c) The Consultant is not responsible for any duties assigned to the design professional in the construction contract that are not expressly provided for in this Agreement. The Client agrees that each contract with any contractor shall state that the contractor shall be solely responsible for job site safety and for its means and methods; that the contractor shall indemnify the Client and the Consultant for all claims and liability arising out of job site accidents; and that the Client and the Consultant shall be made additional insureds under the contractor's general liability insurance policy.

**(16) No Third-Party Beneficiaries; Assignment and Subcontracting.** This Agreement gives no rights or benefits to anyone other than the Client and the Consultant, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole benefit of the Client and the Consultant. The Client shall not assign or transfer any rights under or interest in this Agreement, or any claim arising out of the performance of services by Consultant, without the written consent of the Consultant. The Consultant reserves the right to augment its staff with subconsultants as it deems appropriate due to project logistics, schedules, or market conditions. If the Consultant exercises this right, the Consultant will maintain the agreed-upon billing rates for services identified in the contract, regardless of whether the services are provided by in-house employees, contract employees, or independent subconsultants.

**(17) Confidentiality.** The Client consents to the use and dissemination by the Consultant of photographs of the project and to the use by the Consultant of facts, data and information obtained by the Consultant in the performance of its services. If, however, any facts, data or information are specifically identified in writing by the Client as confidential, the Consultant shall use reasonable care to maintain the confidentiality of that material.

**(18) Miscellaneous Provisions.** This Agreement is to be governed by the law of the State of Florida. This Agreement contains the entire and fully integrated agreement between the parties and supersedes all prior and contemporaneous negotiations, representations, agreements or understandings, whether written or oral. Except as provided in Section 1, this Agreement can be supplemented or amended only by a written document executed by both parties. Provided, however, that any conflicting or additional terms on any purchase order issued by the Client shall be void and are hereby expressly rejected by the Consultant. Any provision in this Agreement that is unenforceable shall be ineffective to the extent of such unenforceability without invalidating the remaining provisions. The non-enforcement of any provision by either party shall not constitute a waiver of that provision.

**(19) PURSUANT TO FS 558.0035, EMPLOYEES OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE UNDER THIS AGREEMENT.**





Invoice for Professional Services

3008141  
DO# 219496  
Recpt.# 229144

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8010371  
Invoice Date: Jun 30, 2016  
Invoice Amount: \$6,550.00  
  
Project No: 149685006.1  
Project Name: NORTHWESTERN FM RELOC  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Jun 30, 2016

Federal Tax Id: 56-0885615

#### LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - FORCE MAIN RELOCATION DESIGN	13,000.00	60.00%	7,800.00	3,250.00	4,550.00
TASK 2 - PERMITTING	4,000.00	50.00%	2,000.00	0.00	2,000.00
TASK 3 - CONSTRUCTION SERVICES	2,500.00	0.00%	0.00	0.00	0.00
<b>Subtotal</b>	<b>19,500.00</b>	<b>50.26%</b>	<b>9,800.00</b>	<b>3,250.00</b>	<b>6,550.00</b>
<b>Total LUMP SUM</b>					<b>6,550.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
ROUTE EVALUATION AND DRAFTING

**Total Invoice: \$6,550.00**

3008141  
PO# 214484  
Rec'd# 224179

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7722092  
Invoice Date: Apr 30, 2016  
Invoice Amount: \$650.00  
Project No: 149685006.1  
Project Name: NORTHWESTERN FM RELOC  
Project Manager: ROMANO, STEVE

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Apr 30, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - FORCE MAIN RELOCATION DESIGN	13,000.00	5.00%	650.00	0.00	650.00
TASK 2 - PERMITTING	4,000.00	0.00%	0.00	0.00	0.00
TASK 3 - CONSTRUCTION SERVICES	2,500.00	0.00%	0.00	0.00	0.00
<b>Subtotal</b>	<b>19,500.00</b>	<b>3.33%</b>	<b>650.00</b>	<b>0.00</b>	<b>650.00</b>
<b>Total LUMP SUM</b>					<b>650.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
CONCEPTUAL DESIGN FOR RIVER CROSSING

**Total Invoice: \$650.00**



Invoice for Professional Services

3008141  
DO# 217404  
Recpt # 227095

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7930109  
Invoice Date: May 31, 2016  
Invoice Amount: \$2,600.00  
Project No: 149685006.1  
Project Name: NORTHWESTERN FM RELOC  
Project Manager: ROMANO, STEVE

Client Reference:

For Services Rendered through May 31, 2016

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

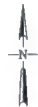
Federal Tax Id: 56-0885615

#### LUMP SUM

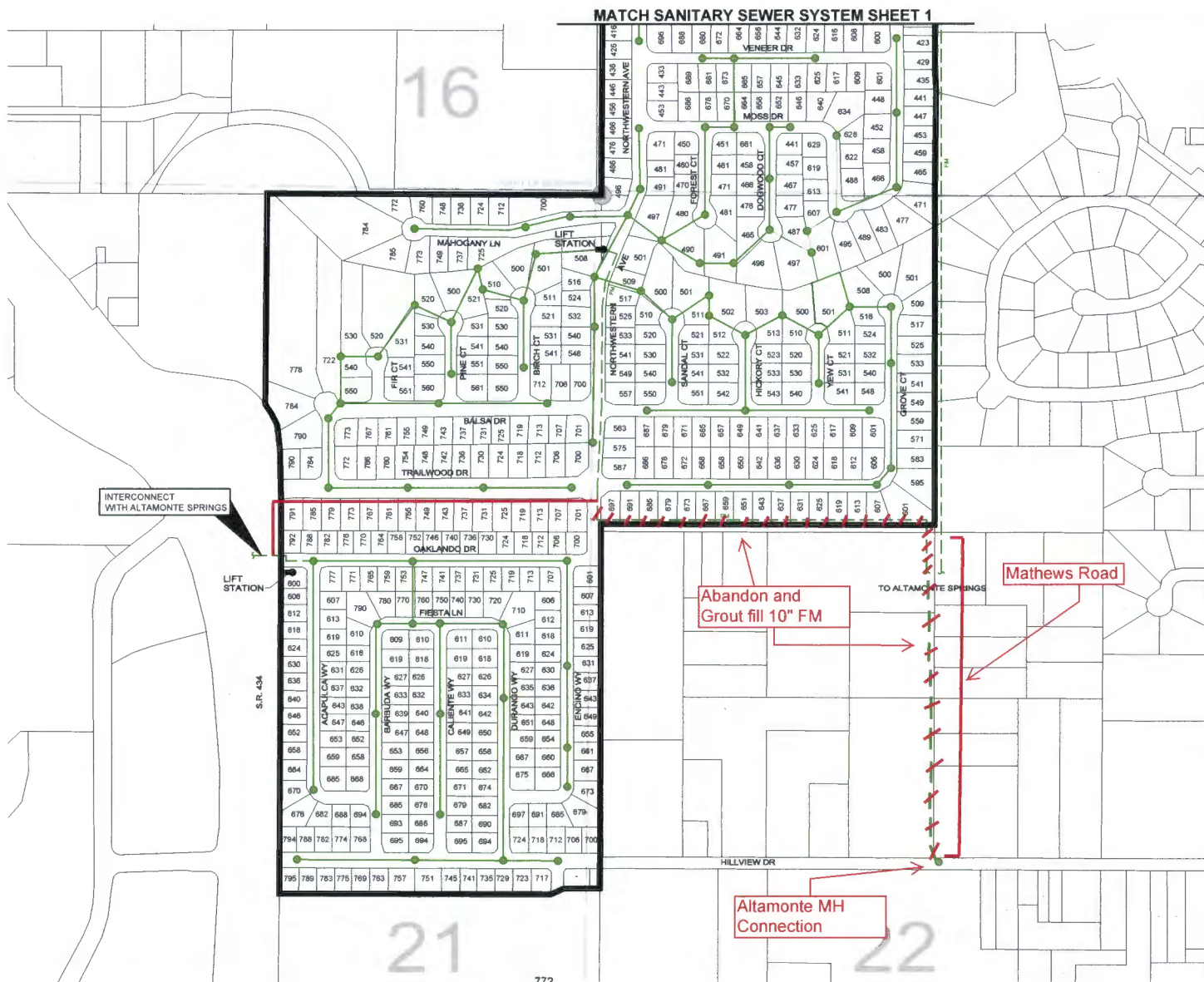
Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - FORCE MAIN RELOCATION DESIGN	13,000.00	25.00%	3,250.00	650.00	2,600.00
TASK 2 - PERMITTING	4,000.00	0.00%	0.00	0.00	0.00
TASK 3 - CONSTRUCTION SERVICES	2,500.00	0.00%	0.00	0.00	0.00
<b>Subtotal</b>	<b>19,500.00</b>	<b>16.67%</b>	<b>3,250.00</b>	<b>650.00</b>	<b>2,600.00</b>
<b>Total LUMP SUM</b>					<b>2,600.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
PRELIMINARY DESIGN

**Total Invoice: \$2,600.00**



LEGEND:  
SERVICE AREA BOUNDARY



772

SHEET  
S-2



SANITARY SEWER SYSTEM

UTILITIES INC. OF FLORIDA  
WEATHERSFIELD SYSTEM

SCALE: 1" = 400'

DATE: 5-2015

JOB NO.: U0722

FILE: SYSTEM MAP



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-42**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**





## ADD-CHANGE FORM

<b>New Project or Budget Change?</b>		<b>New Project</b>		<b>Assigned Project #</b>	
<b>Requested by:</b>	Bryan K. Gongre <i>Project Manager / Area Manager</i>			<b>Date:</b>	8/16/2016
<b>Project Name:</b>	Oakland Shores WM Replacement				
<b>Company:</b>	252	Utilities Inc of Florida			
<b>Business Unit:</b>	252113	Oakland Shores			
<b>Project Owner:</b>	Patrick C. Flynn			<b>BU Type:</b>	WP
<b>Project Manager:</b>	Bryan K. Gongre			<b>Budget Owner / RVP:</b>	John Hoy 03
<b>Start Date:</b>	9/5/2016	Q3 2016	<b>Region:</b> Florida 04		
<b>Estimated End Date:</b>	3/31/2017	Q1 2017	<b>State:</b> FL		
<b>Project Type:</b>	Maintenance				
<b>Will project replace/retire any assets:</b>	Yes				
<b>Previously Requested:</b>					
<b>This Request:</b>	\$1,571,701				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	\$1,571,701				
<b>Description:</b>					
Remove and replace the following items that are located within the Seminole County right-of-way: A. 13,200 LF of 4" asbestos cement water main B. 3,700 LF of 6" asbestos cement water main C. 20 each 4" gate valves D. 8 each 6" gate valves E. 2 each 2" blow offs F. 226 water services G. 110 driveway sections H. 400 LF of sidewalk  Production of a right-of-way survey, an as-built survey, right-of-way permitting and asset tables that are in conformance with GIS nomenclature and format are included. CEI services will be utilized to support right-of-way permitting, production of as-built drawings, field inspections during construction and contract bidding services.					
<b>Timeline Considerations:</b>					
This project is one of six water main replacement projects in Seminole County and one in Orange County that are similar in scope and timing. Engineering services are completed and all permits excluding Seminole and Orange County right-of-way have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.					
<b>Inter-dependant Project</b>	<b>Project Number:</b>		<b>Project Name</b>	(If applicable)	
Have engineering evaluations been performed?	Yes		Engineering project number	2015082	(If applicable)

**Justification and Benefits:**

The Oakland Shores water system serves 226 connections and was originally built in 1961 and is thus 55 years old. The system is comprised of Asbestos Concrete (AC) and galvanized iron pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat and bronze body wheel handle gate valves that are damaged and difficult to operate. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. Over time organic growth has occurred with the distribution system contributing to water quality complaints and elevated TTHM/HAA5 levels, particularly within the areas that have galvanized pipe material. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR of which the first two methods elevate the risk of a potential break.

Seminole County requires the Utility to remove all existing water mains located within the right-of-way except mains under County roads that can be grouted in place. AC pipe must be removed and disposed of by a certified asbestos abatement contractor in a Class I landfill.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With gate valves at the appropriate location and configuration, staff will be able to isolate portions of the distribution system when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance and poses the potential for reduced TTHM/HAA5 levels. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform to provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers. Naturally occurring organics in the groundwater, when combined with chlorine, will elevate TTHM/HAA5 levels above MCLs. By replacing the water mains, gate valves and service connections reliability will be greatly improved, water quality will be improved and TTHM/HAA5 levels should be reduced.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response, property damage, and restoration.

**Technical Review Summary:**

Project reviewed by CPRT on 8/25/2016. No comments or revisions.

Capital Plan	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	1,571,681				
Project Spend in Current Plan	800,000				
Variance	(771,681)	-	-	-	-
CIAC Collected					
Net Rate Base	1,571,681	1,571,681	1,571,681	1,571,681	1,571,681

(if applicable)

**O&M Cost Impact B/(W)**

--	--	--	--	--	--

**Financial Justification**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

Served	Rate Payers
(70)	(69.90)
2,684	2,684

**Utility Financial Impact**

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(39,292)	(78,584)	(78,584)	(78,584)	(78,584)
Under-recovery on capital B/(W)	(28,732)	(109,035)	(103,142)	(97,248)	(91,354)
Net EBIT Impact B/(W)	(68,024)	(187,619)	(181,726)	(175,832)	(169,938)

**Timing and Supporting Information on Rate Recovery**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Regulatory Plan Implications**
**Assumptions**

**BID INFORMATION AND BUDGET BREAKDOWN**

Have three bids been received?

☒ Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$1,552,553	Yes
2	Central Florida Tapping	\$1,825,970	No
3	ECO-2000	\$1,650,071	No

**Component:****Amount**

Value Bid Elements

1,552,553.00

should match total budget on General Information

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

CPH Engineers (CEI, As Built, ROW Permits)

19,148.00

**Total Project Budget****1,571,701.00**

should match total budget on General Information

**Object Account(s) to which project will be closed:**

1125

1130

Trans &amp; Distr Mains

Service Lines

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)**General Comments:**



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/29/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Bryan K. Gongre Date: 8/25/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/25/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/30/2016 ☒

President:  Date:  ☐

### Approval or Re-Direction Comments



### UIF Water Main System Improvements Bid Results

<b>Area 1</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

<b>Area 2</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

<b>Area 3</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00

*CENTRAL Florida TAPPING*

**Utilities Inc. of Florida**  
 Oakland Shores System  
 Engineer's Bid Schedule  
 CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	25,000.00	25,000.00
2	Preconstruction Video	LS	1	2,550.00	2,550.00
3	Project Layout and Utility Locates	LS	1	55,270.00	55,270.00
4	Utility Maintenance of Traffic	LS	1	25,500.00	25,500.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	226	900.00	203,400.00
6	Furnish & Install 2" WM	LF	-		-
7	Furnish & Install 4" WM	LF	13,200	30.00	396,000.00
8	Furnish & Install 6" WM	LF	3,700	40.00	148,000.00
9	Furnish & Install 6" WM HDPE by HDD at Oranole Ave	LF	950	105.00	99,750.00
10	Furnish & Install Fittings	TON	3	4,400.00	13,200.00
11	Furnish & Install 4" Gate Valve	EA	20	890.00	17,800.00
12	Furnish & Install 6" Gate Valve	EA	8	1,100.00	8,800.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	3,200.00	3,200.00
14	Furnish & Install 2" Blow Off	EA	2	1,500.00	3,000.00
15	Remove and Replace Driveway	EA	110	2,000.00	220,000.00
16	Remove and Replace Sidewalk	LF	400	35.00	14,000.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	18,400	30.00	552,000.00
18	Remove Valve	EA	23	225.00	5,175.00
	<b>Subtotal</b>				1,790,045.00
	<b>Permit Fee (2.58%)</b>				45,925.16
	<b>Total Estimated Cost</b>				1,835,970.16

**Utilities Inc. of Florida**

Oakland Shores System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	36500.00	36500.00
2	Preconstruction Video	LS	1	9500.00	9500.00
3	Project Layout and Utility Locates	LS	1	9500.00	9500.00
4	Utility Maintenance of Traffic	LS	1	23500.00	23500.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	226	1250.00	282500.00
6	Furnish & Install 2" WM	LF	-	19.95	-
7	Furnish & Install 4" WM	LF	13.200	20.50	270600.00
8	Furnish & Install 6" WM	LF	3.700	27.45	102305.00
9	Furnish & Install 6" WM HDPE by HDD at Oranole Ave	LF	950	45.00	42750.00
10	Furnish & Install Fittings	TON	3	7500.00	22500.00
11	Furnish & Install 4" Gate Valve	EA	20	1000.00	20000.00
12	Furnish & Install 6" Gate Valve	EA	8	1500.00	12000.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	4500.00	4500.00
14	Furnish & Install 2" Blow Off	EA	2	1250.00	2500.00
15	Remove and Replace Driveway	EA	110	2500.00	275000.00
16	Remove and Replace Sidewalk	LF	400	25.00	10000.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	18.400	21.00	386400.00
18	Remove Valve	EA	23	150.00	3450.00
	<b>Subtotal</b>				1513505.00
	<b>Permit Fee (2.58%)</b>				39048.43
	<b>Total Estimated Cost</b>				1552553.43

**Utilities Inc. of Florida**

Oakland Shores System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	\$73,182.00	\$73,182.00
2	Preconstruction Video	LS	1	\$2,745.00	\$2,745.00
3	Project Layout and Utility Locates	LS	1	\$39,518.00	\$39,518.00
4	Utility Maintenance of Traffic	LS	1	\$28,415.00	\$28,415.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	226	\$950.00	\$214,700.00
6	Furnish & Install 2" WM	LF	-		
7	Furnish & Install 4" WM	LF	13,200	\$28.00	\$369,600.00
8	Furnish & Install 6" WM	LF	3,700	\$32.00	\$118,400.00
9	Furnish & Install 6" WM HDPE by HDD at Oranole Ave	LF	950	\$60.00	\$57,000.00
10	Furnish & Install Fittings	TON	3	\$15,000.00	\$45,000.00
11	Furnish & Install 4" Gate Valve	EA	20	\$1,523.00	\$30,460.00
12	Furnish & Install 6" Gate Valve	EA	8	\$1,850.00	\$14,800.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	\$5,400.00	\$5,400.00
14	Furnish & Install 2" Blow Off	EA	2	\$1,890.00	\$3,780.00
15	Remove and Replace Driveway	EA	110	\$1,400.00	\$154,000.00
16	Remove and Replace Sidewalk	LF	400	\$5.00	\$2,000.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	18,400	\$24.00	\$441,600.00
18	Remove Valve	EA	23	\$300.00	\$6,900.00
	<b>Subtotal</b>				\$1,607,500.00
	<b>Permit Fee (2.58%)</b>				\$42,571.83
	<b>Total Estimated Cost</b>				\$1,650,071.83

**SECTION 00520**  
**AGREEMENT FORM**

**PART 1 GENERAL**

**1.01 THIS AGREEMENT**, made this 26th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Traverse Group, Inc., doing business as a Corporation and hereinafter called the Contractor.

**1.02 The Owner and Contractor agree as follows:**

**A. Contract Documents**

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

**B. Scope of Work**

The Contractor shall perform all work required by the Contract Documents for the construction of the Oakland Shores WM Replacement

**C. Contract Time**

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 180 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.



D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of One million five hundred fifty two thousand five hundred fifty three dollars & 43/100's Dollars (\$ 1,552,553.43). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

Traverse Group, Inc.  
Name of Firm

[Signature]  
By (Signature)

(SEAL)

Alex Schaefer, President  
Printed Name and Title

Alicia Roehn, Corporate Secretary

ATTEST:

[Signature]  
By (Signature)

Alex Schaefer - Mgr.  
Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner

[Signature]  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

[Signature]  
By (Signature)

Lisa August  
Printed Name and Title

END OF SECTION



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees



for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
<b>Tasks 4</b>	
Bidding	\$1,500.00
<b>Total</b>	<b>\$60,665.00</b>

5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

**Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services are not included in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

**Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
Total Contract		\$75,665.00



CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is written over a light blue rectangular background.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**  
Utilities Inc. of Florida

\_\_\_\_\_

**Date:** \_\_\_\_\_



### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Raw Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

**Survey Fee Area 1: \$2,375.00**  
**Survey Fee Area 2: \$3,675.00**

## SURVEY SITE EXHIBIT

### Area 1



### Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.

Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stoppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement  
 Oranole Road, Orlando, FL  
 Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

#### SCOPE OF WORK:

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
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**Licenses:** PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
**Certifications:** EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician



6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.



**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:** **\$3,696.00**

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5)** **\$1,920.00**

\$438.00 Asphalt/Concrete/Each (anticipate 0)

**M.O.T. (SSMC) (Required for roadway test holes)**

\$576.00 per Lane Closure/Day Rate

\$768.00 per Lane Closure/Night Rate

**Permitting:** (If required for roadway test holes)

\$94.00 per hour + cost of permit

**Police Officer:** (Required)

\$50.00 per hour (estimate 0)

**Anticipated Project Total:** **\$5,616.00**

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards  
Utility Division Project Manager

MSS:gac

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
Fax: 407-292-0141  
Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

**The person executing this document must indicate that he/she is a Principal and/or Corporate Officer.**

**If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.**

**ACCEPTED BY:**

\_\_\_\_\_  
Principal / or Corporate Officer      TITLE      Printed Name      Date

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-43**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida<sup>8</sup>**



## ADD-CHANGE FORM

New Project or Budget Change?

New Project

Assigned Project #

Requested by:

Bryan K. Gongre

Date:

8/16/2016

Project Manager / Area Manager

Project Name:

Phillips WM Replacement

Company:

252

Utilities Inc of Florida

Business Unit:

252116

Phillips

Project Owner:

Patrick C. Flynn

BU Type:

WP

Project Manager:

Bryan K. Gongre

Budget Owner / RVP:

John Hoy

03

Start Date:

9/5/2016

Q3 2016

Region:

Florida

04

Estimated End Date:

3/31/2016

Q1 2016

State:

FL

Project Type:

Maintenance

Will project replace/retire any assets:

Yes

Previously Requested:

This Request:

\$1,188,247

Still to be Requested:

Total Project Budget:

\$1,188,247

### Description:

Remove and replace the following items that are located within the Seminole County right-of-way.

- A. 1,100 LF of 2" galvanized water main
- B. 8,250 LF of 4" asbestos concrete water main
- C. 4 each 2" GV's
- D. 12 each 4" GV's
- E. 4 each 2" blow offs
- F. 86 water services
- G. 55 driveway sections

Production of a right-of-way survey, an as-built survey, right-of-way permitting and asset tables that are in conformance with GIS nomenclature and format are included.

CEI services will be utilized to support right-of-way permitting, production of as-built drawings, field inspections during construction and contract bidding services.

### Timeline Considerations:

This project is one of six water main replacement projects in Seminole County and one in Orange County that are similar in scope and timing. Engineering services are completed and all permits excluding Seminole and Orange County right-of-way have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.

Inter-dependant Project

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

Yes

Engineering project number

2015082

(If applicable)

**Justification and Benefits:**

The Phillips water system serves 66 connections and was originally built in 1963 and is thus 53 years old. The system is comprised of Asbestos Concrete (AC) and galvanized iron pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat and bronze body wheel handle gate valves that are damaged and difficult to operate. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. Over time organic growth has occurred within the distribution system contributing to water quality complaints, particularly within the areas that have galvanized pipe material. Over time organic growth has occurred with the distribution system contributing to water quality complaints. There are no fire hydrants or significant flushing points to adequately maintain the system. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR of which the first two methods elevate the risk of a potential break.

Seminole County requires the Utility to remove all existing water mains located within the right of way except mains under County roads that can be grouted in place. All AC pipe must be removed and disposed of by a certified asbestos abatement contractor in a Class I landfill.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With new gate valves at the appropriate location and configuration, staff will be able to isolate portions of the distribution system when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform to provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customers. By replacing the water mains, gate valves and service connections reliability will be greatly improved and water quality will be improved.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response, property damage, and restoration.

**Technical Review Summary:**

Project reviewed by CPRT on 8/25/2016. No comments or revisions.



<b>Capital Plan</b>	<b>Yr 1</b>	<b>Yr 2</b>	<b>Yr 3</b>	<b>Yr 4</b>	<b>Yr 5</b>
Proposed Project Spend	1,188,247				
Project Spend in Current Plan	250,000				
Variance	(938,247)	-	-	-	-
CIAC Collected					
Net Rate Base	1,188,247	1,188,247	1,188,247	1,188,247	1,188,247

(if applicable)

**O&M Cost Impact B/(W)**

--	--	--	--	--	--

**Financial Justification**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

<b>Served</b>	<b>Rate Payers</b>
(53)	(52.85)
2,684	2,684

**Utility Financial Impact**

 O&M Impact on EBITDA B/(W)  
 Depreciation Impact on EBIT B/(W)  
 Under-recovery on capital B/(W)  
 Net EBIT Impact B/(W)

<b>Yr 1</b>	<b>Yr 2</b>	<b>Yr 3</b>	<b>Yr 4</b>	<b>Yr 5</b>
	-	-	-	-
(29,706)	(59,412)	(59,412)	(59,412)	(59,412)
(21,723)	(82,435)	(77,979)	(73,523)	(69,067)
(51,429)	(141,847)	(137,391)	(132,935)	(128,479)

**Timing and Supporting Information on Rate Recovery**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Regulatory Plan Implications**
**Assumptions**



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Traverse Group	\$1,315,101	No
2	Central Florida Tapping	\$1,212,593	No
3	ECO-2000	\$1,178,389	Yes

## Component:

## Amount

Value Bid Elements

1,178,389.00

should match amount(s) above

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

CPH Engineers (CEI, As Built, ROW Permits)

9,858.00

Total Project Budget

1,188,247.00

should match Total Budget on General Information

Object Account(s) to which project will be closed:

1125

1130

Trans &amp; Distr Mains

Service Lines

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

General Comments:



## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/29/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2106

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Bryan K. Gongre Date: 8/25/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/25/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/30/2016 ☒

President:  Date:  ☐

### Approval or Re-Direction Comments

CENTRAL Florida Tapping

# Utilities Inc. of Florida

Phillips System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	51,750.00	51,750.00
2	Preconstruction Video	LS	1	3,000.00	3,000.00
3	Project Layout and Utility Locates	LS	1	45,000.00	45,000.00
4	Utility Maintenance of Traffic	LS	1	22,900.00	22,900.00
5	Furnish & Install Service Connections	EA	105	1,550.00	162,750.00
6	Furnish & Install 2" WM	LF	1,100	31.00	34,100.00
7	Furnish & Install 4" WM	LF	8,250	39.00	321,750.00
8	Furnish & Install Fittings	TON	2	7,150.00	14,300.00
9	Furnish & Install 2" Gate Valve	EA	4	1,045.00	4,180.00
10	Furnish & Install 4" Gate Valve	EA	12	1,430.00	17,160.00
11	Furnish & Install 4" Tapping Sleeve & Valve	EA	1	2,850.00	2,850.00
12	Furnish & Install 2" Blow Off	EA	4	2,200.00	8,800.00
13	Remove and Replace Driveway	EA	55	2,310.00	127,050.00
<b>Demolition</b>					
14	Remove Existing Water Main	LF	9,350	39.00	364,650.00
15	Remove Valve	EA	7	265.00	1,855.00
	<b>Subtotal</b>				1,182,095.00
	<b>Permit Fee (2.58%)</b>				30,498.05
	<b>Total Estimated Cost</b>				1,212,593.05

# Utilities Inc. of Florida

Phillips System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	99500.00	99500.00
2	Preconstruction Video	LS	1	11500.00	11500.00
3	Project Layout and Utility Locates	LS	1	9500.00	9500.00
4	Utility Maintenance of Traffic	LS	1	25000.00	25000.00
5	Furnish & Install Service Connections	EA	105	2500.00	262500.00
6	Furnish & Install 2" WM	LF	1,100	24.50	26950.00
7	Furnish & Install 4" WM	LF	8,250	31.50	259875.00
8	Furnish & Install Fittings	TON	2	7500.00	15000.00
9	Furnish & Install 2" Gate Valve	EA	4	1200.00	4800.00
10	Furnish & Install 4" Gate Valve	EA	12	1500.00	18000.00
11	Furnish & Install 4" Tapping Sleeve & Valve	EA	1	4500.00	4500.00
12	Furnish & Install 2" Blow Off	EA	4	2000.00	8000.00
13	Remove and Replace Driveway	EA	55	3950.00	217250.00
<b>Demolition</b>					
14	Remove Existing Water Main	LF	9,350	34.00	317900.00
15	Remove Valve	EA	7	250.00	1750.00
	<b>Subtotal</b>				1,282,025.00
	<b>Permit Fee (2.58%)</b>				33076.25
	<b>Total Estimated Cost</b>				1,315,101.25



## Utilities Inc. of Florida

Phillips System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	\$84,560.00	\$84,560.00
2	Preconstruction Video	LS	1	\$4,500.00	\$4,500.00
3	Project Layout and Utility Locates	LS	1	\$39,500.00	\$39,500.00
4	Utility Maintenance of Traffic	LS	1	\$34,391.00	\$34,391.00
5	Furnish & Install Service Connections	EA	105	\$1,200.00	\$126,000.00
6	Furnish & Install 2" WM	LF	1,100	\$26.00	\$28,600.00
7	Furnish & Install 4" WM	LF	8,250	\$40.00	\$330,000.00
8	Furnish & Install Fittings	TON	2	\$20,000.00	\$40,000.00
9	Furnish & Install 2" Gate Valve	EA	4	\$650.00	\$2,600.00
10	Furnish & Install 4" Gate Valve	EA	12	\$1,523.00	\$18,276.00
11	Furnish & Install 4" Tapping Sleeve & Valve	EA	1	\$5,300.00	\$5,300.00
12	Furnish & Install 2" Blow Off	EA	4	\$1,890.00	\$7,560.00
13	Remove and Replace Driveway	EA	55	\$1,600.00	\$88,000.00
<b>Demolition</b>					
14	Remove Existing Water Main	LF	9,350	\$36.00	\$336,600.00
15	Remove Valve	EA	7	\$300.00	\$2,100.00
	<b>Subtotal</b>				\$1,147,987.00
	<b>Permit Fee (2.58%)</b>				\$30,402.44
	<b>Total Estimated Cost</b>				\$1,178,389.44

## UIF Water Main System Improvements Bid Results

<b>Area 1</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

<b>Area 2</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

<b>Area 3</b>	<b>CFT</b>	<b>TG</b>	<b>Eco</b>
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00

SECTION 00520

AGREEMENT FORM

PART 1 GENERAL

1.01 THIS AGREEMENT, made this 26th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and ECO-2000, Inc., doing business as a Corporation and hereinafter called the Contractor.

1.02 The Owner and Contractor agree as follows:

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Phillips WM Replacement

C. Contract Time

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 120 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of One million one hundred seventy eight thousand three hundred eighty nine dollars & 00/100's Dollars (\$ 1,178,389.00). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

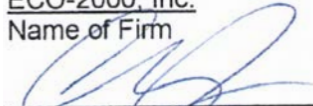
G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:


ECO-2000, Inc.  
Name of Firm

  
By (Signature)

(SEAL)

Charlie Jones, President  
Printed Name and Title

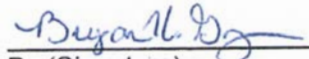
ATTEST:

  
By (Signature)

Magen W. Focht / Office Mgr.  
Printed Name and Title

OWNER:

Utilities Inc. of Florida  
Name of Owner

  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

  
By (Signature)

Susan M. D. Lasquale / Admin. Asst.  
Printed Name and Title

END OF SECTION





1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.548.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees



for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
<b>Tasks 4</b>	
Bidding	\$1,500.00
<b>Total</b>	<b>\$60,665.00</b>

5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

**Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services are not included in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

**Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
Total Contract		\$75,665.00



CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is written over a horizontal line.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**  
Utilities Inc. of Florida

**Date:** \_\_\_\_\_

#### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Raw Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

**Survey Fee Area 1: \$2,375.00**

**Survey Fee Area 2: \$3,675.00**



## SURVEY SITE EXHIBIT

### Area 1



### Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.

Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stoppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement**  
**Oranole Road, Orlando, FL**  
**Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

#### SCOPE OF WORK:

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	10 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
---	--	--	---	--	--

**Licenses:** PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
**Certifications:** EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician

6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.



**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:** **\$3,696.00**

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5) \$1,920.00**

\$438.00 Asphalt/Concrete/Each (anticipate 0)

**M.O.T. (SSMC)** (Required for roadway test holes)

\$576.00 per Lane Closure/Day Rate

\$768.00 per Lane Closure/Night Rate

**Permitting:** (If required for roadway test holes)

\$94.00 per hour + cost of permit

**Police Officer:** (Required)

\$50.00 per hour (estimate 0)

**Anticipated Project Total:** **\$5,616.00**

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards  
Utility Division Project Manager

MSS:gac

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
Fax: 407-292-0141  
Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

The person executing this document **must indicate** that he/she is a Principal and/or Corporate Officer.

If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.

**ACCEPTED BY:**

/			
Principal / or Corporate Officer	TITLE	Printed Name	Date



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-44**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

**ADD-CHANGE FORM**

<b>New Project or Budget Change?</b>		<b>New Project</b>		<b>Assigned Project #</b>	
<b>Requested by:</b>	Bryan K. Gongre <i>Project Manager / Area Manager</i>			<b>Date:</b>	8/16/2016
<b>Project Name:</b>	Ravenna Park WM Replacement				
<b>Company:</b>	252	Utilities Inc of Florida			
<b>Business Unit:</b>	252118	Ravenna Park W			
<b>Project Owner:</b>	Patrick C. Flynn			<b>BU Type:</b>	WP
<b>Project Manager:</b>	Bryan K. Gongre			<b>Budget Owner / RVP:</b>	John Hoy 03
<b>Start Date:</b>	9/5/2016	Q3 2016	<b>Region:</b> Florida 04		
<b>Estimated End Date:</b>	3/31/2017	Q1 2017	<b>State:</b> FL		
<b>Project Type:</b>	Maintenance				
<b>Will project replace/retire any assets:</b>	Yes				
<b>Previously Requested:</b>					
<b>This Request:</b>	\$2,160,808				
<b>Still to be Requested:</b>					
<b>Total Project Budget:</b>	\$2,160,808				
<b>Description:</b>					
Remove and replace the following items that are located within the Seminole County right-of-way. A. 600 LF of 2" galvanized water main B. 21,300 LF of 4" asbestos concrete water main C. 1,500 LF of 6" asbestos concrete water main D. 3 each 2" GV's E. 41 each 4" GV's F. 2 each 6" GV's G. 7 each 2" blow offs H. 340 water services I. 185 driveway sections J. 500 LF of sidewalk  Production of a right-of-way survey, an as-built survey, right-of-way permitting and asset tables that are in conformance with GIS nomenclature and format are included. CEI services will be utilized to support right-of-way permitting, production of as-built drawings, field inspections during construction and contract bidding services.					
<b>Timeline Considerations:</b>					
This project is one of six water main replacement projects in Seminole County and one in Orange County that are similar in scope and timing. Engineering services are completed and all permits excluding Seminole and Orange County right-of-way have been obtained. The quantity of mains and service lines being replaced requires a timely issuance of a Notice of Award, Notice to Proceed, and contract execution to allow adequate time to complete the project prior to 12/31/2017.					
<b>Inter-dependant Project</b>	<b>Project Number:</b>		<b>Project Name</b>	(If applicable)	
Have engineering evaluations been performed?	Yes	<b>Engineering project number</b>	2015082	(If applicable)	

**Justification and Benefits:**

The Ravenna Park water system serves 340 connections and was originally built in 1959 through 1965 and is thus 51 to 59 years old. The system is comprised of Asbestos Concrete (AC) and galvanized iron pipe with few valves to isolate sections of the system when water main breaks occur. Existing valves are mainly double disc gate valves that don't fully seat and bronze body wheel handle gate valves that are damaged and difficult to operate. AC pipe failures occur with increasing frequency for a variety of reasons including fatigue, loss of hoop strength due to high water table, gasket failures, ground settling, and excess deflection of pipe joints. Over time organic growth has occurred within the distribution system contributing to water quality complaints, particularly within the areas that have galvanized pipe material. Over time organic growth has occurred with the distribution system contributing to water quality complaints, particularly within the areas that have galvanized pipe material. There are no fire hydrants or significant flushing points to adequately maintain the system. Underground utility locate requests are typically addressed by potholing, probing or the use of GPR of which the first two methods elevate the risk of a potential break.

Seminole County requires the Utility to remove all existing water mains located within the right of way except mains under County roads that can be grouted in place. All AC pipe must be removed and disposed of by a certified asbestos abatement contractor in a Class I landfill.

By replacing the distribution system components, water quality complaints will be reduced by virtue of enhanced ability to maintain the facilities. Water main breaks will be reduced. With new gate valves at the appropriate location and configuration, staff will be able to isolate portions of the distribution system when necessary, which will limit the number of customers affected when outages occur. With the installation of detector wire on all water mains as well as geospatially locating all new facilities, the locating process will be streamlined, proficient and accurate. Also, unidirectional flushing procedures can be scheduled that will improve system maintenance. This project includes an as-built survey with an asset table that can be used to upload into the ESRI platform to provide GPS coordinates for asset maintenance.

**Risk Evaluation**

As the system ages, failures will be more frequent and corresponding expenses will rise. Water quality complaints will become more frequent and negatively affect the quality of service provided to the customer. By replacing the water mains, gate valves and service connections reliability will be greatly improved and water quality will be improved.

**Alternatives Considered:**

Maintaining the status quo is not an option for reasons identified in the Risk Evaluation above.

The project could be parsed up in phases but that would result in ongoing expensive repair and maintenance costs caused by pipe failures, emergency response, property damage, and restoration.

**Technical Review Summary:**

Project reviewed by CPRT on 8/25/2016. No comments or revisions.

**Capital Plan**

 Proposed Project Spend  
 Project Spend in Current Plan

**Variance**

CIAC Collected

Net Rate Base

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
2,160,808				
1,000,000				
(1,160,808)	-	-	-	-
2,160,808	2,160,808	2,160,808	2,160,808	2,160,808

(if applicable)

**O&M Cost Impact B/(W)**

--	--	--	--	--

**Financial Justification**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Estimated Revenue Impact per Customer:**

Number of Customers Impacted:

**Served Rate Payers**

(96)	(96.11)
2,684	2,684

**Utility Financial Impact**

 O&M Impact on EBITDA B/(W)  
 Depreciation Impact on EBIT B/(W)  
 Under-recovery on capital B/(W)  
 Net EBIT Impact B/(W)

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
	-	-	-	-
(54,020)	(108,040)	(108,040)	(108,040)	(108,040)
(39,502)	(149,906)	(141,803)	(133,700)	(125,597)
(93,522)	(257,946)	(249,843)	(241,740)	(233,637)

**Timing and Supporting Information on Rate Recovery**

This project is a pro-forma included in the 2016 UIF consolidated rate case to be filed in 3Q16.

**Regulatory Plan Implications**
**Assumptions**



**Yes**

Bid	Company	Amount	Selected
1	Traverse Group	\$2,467,356	No
2	Central Florida Tapping	\$2,399,705	No
3	ECO-2000	\$2,155,950	Yes

4,858.00

**General Comments:**





## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 8/29/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

Comments

This project aligns with the utility plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Patrick C. Flynn Date Held 8/25/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

### FP&A Review

Review Completed by Bryan K. Gongre Date: 8/25/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 8/25/2016 ☒

VP Operations: Patrick C. Flynn Date: 8/30/2016 ☒

President:  Date:  ☐

### Approval or Re-Direction Comments

### UIF Water Main System Improvements Bid Results

Area 1	CFT	TG	Eco
Phillips	\$1,212,593.05	\$1,315,101.25	\$1,178,389.00
Ravenna	\$2,399,705.23	\$2,467,356.74	\$2,155,950.00
Crystal Lake	\$1,862,191.16	\$1,810,693.95	\$1,573,700.00
	\$5,474,489.44	\$5,593,151.94	<b>\$4,908,039.00</b>

Area 2	CFT	TG	Eco
Little Wekiva	\$518,890.07	\$511,823.08	\$550,273.00
Oakland	\$1,825,970.16	\$1,552,553.43	\$1,650,071.00
Bear Lake	\$1,707,721.07	\$1,485,269.29	\$1,571,228.00
	\$4,052,581.30	<b>\$3,549,645.80</b>	\$3,771,572.00

Area 3	CFT	TG	Eco
Crescent Heights	<b>\$1,795,660.85</b>	\$2,017,553.70	\$2,020,541.00

**Utilities Inc. of Florida**

Ravenna System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	35,000.00	35,000.00
2	Preconstruction Video	LS	1	4,000.00	4,000.00
3	Project Layout and Utility Locates	LS	1	35,000.00	35,000.00
4	Utility Maintenance of Traffic	LS	1	27,000.00	27,000.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	354	1,155.00	408,870.00
6	Furnish & Install 2" WM	LF	600	26.00	15,600.00
7	Furnish & Install 4" WM	LF	21,300	31.00	660,300.00
8	Furnish & Install 6" WM	LF	1,500	53.00	79,500.00
9	Furnish & Install Fittings	TON	4	5,900.00	23,600.00
10	Furnish & Install 2" Gate Valve	EA	3	795.00	2,385.00
11	Furnish & Install 4" Gate Valve	EA	41	1,190.00	48,790.00
12	Furnish & Install 6" Gate Valve	EA	2	1,350.00	2,700.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	3,570.00	3,570.00
14	Furnish & Install 2" Blow Off	EA	7	1,765.00	12,355.00
15	Remove and Replace Driveway	EA	185	1,500.00	277,500.00
16	Remove and Replace Sidewalk	LF	500	56.00	28,000.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	22,250	30.00	667,500.00
18	Remove Valve	EA	32	240.00	7,680.00
<b>Subtotal</b>					<b>2,339,350.00</b>
<b>Permit Fee (2.58%)</b>					<b>60,355.23</b>
<b>Total Bid</b>					<b>2,399,705.23</b>

**Utilities Inc. of Florida**

Ravenna System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	120,000.00	120,000.00
2	Preconstruction Video	LS	1	1550.00	1550.00
3	Project Layout and Utility Locates	LS	1	9500.00	9500.00
4	Utility Maintenance of Traffic	LS	1	23500.00	23500.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	354	1550.00	548700.00
6	Furnish & Install 2" WM	LF	600	20.00	12000.00
7	Furnish & Install 4" WM	LF	21300	25.00	532500.00
8	Furnish & Install 6" WM	LF	1500	29.50	44250.00
9	Furnish & Install Fittings	TON	4	7500.00	30000.00
10	Furnish & Install 2" Gate Valve	EA	3	1000.00	3000.00
11	Furnish & Install 4" Gate Valve	EA	41	1000.00	41000.00
12	Furnish & Install 6" Gate Valve	EA	2	1500.00	3000.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	5500.00	5500.00
14	Furnish & Install 2" Blow Off	EA	7	1250.00	8750.00
15	Remove and Replace Driveway	EA	185	2900.00	536500.00
16	Remove and Replace Sidewalk	LF	500	2700	13500.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	22250	21.00	467250.00
18	Remove Valve	EA	32	150.00	4800.00
	<b>Subtotal</b>				2,405,300.00
	<b>Permit Fee (2.58%)</b>				62,056.74
	<b>Total Bid</b>				2,467,356.74

**Utilities Inc. of Florida**

Ravenna System

Engineer's Bid Schedule

CPH Project No. U07144

ITEM No	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
1	General Conditions	LS	1	\$76,500.00	\$76,500.00
2	Preconstruction Video	LS	1	\$10,792.00	\$10,792.00
3	Project Layout and Utility Locates	LS	1	\$55,412.00	\$55,412.00
4	Utility Maintenance of Traffic	LS	1	\$30,800.00	\$30,800.00
<b>Water Main</b>					
5	Furnish & Install Service Connections	EA	354	\$650.00	\$230,100.00
6	Furnish & Install 2" WM	LF	600	\$18.00	\$10,800.00
7	Furnish & Install 4" WM	LF	21,300	\$27.00	\$575,100.00
8	Furnish & Install 6" WM	LF	1,500	\$30.00	\$45,000.00
9	Furnish & Install Fittings	TON	4	\$20,000.00	\$80,000.00
10	Furnish & Install 2" Gate Valve	EA	3	\$650.00	\$1,950.00
11	Furnish & Install 4" Gate Valve	EA	41	\$1,523.00	\$62,443.00
12	Furnish & Install 6" Gate Valve	EA	2	\$1,850.00	\$3,700.00
13	Furnish & Install 6" Tapping Sleeve and Valve	EA	1	\$5,400.00	\$5,400.00
14	Furnish & Install 2" Blow Off	EA	7	\$1,890.00	\$13,230.00
15	Remove and Replace Driveway	EA	185	\$1,400.00	\$259,000.00
16	Remove and Replace Sidewalk	LF	500	\$15.00	\$7,500.00
<b>Demolition</b>					
17	Remove Existing Water Main	LF	22,250	\$28.00	\$623,000.00
18	Remove Valve	EA	32	\$300.00	\$9,600.00
	<b>Subtotal</b>				\$2,100,327.00
	<b>Permit Fee (2.58%)</b>				\$55,623.51
	<b>Total Bid</b>				\$2,155,950.51



**SECTION 00520**  
**AGREEMENT FORM**

**PART 1 GENERAL**

**1.01 THIS AGREEMENT**, made this 26th day of September, 2016, by and between Utilities Inc. of Florida, hereinafter called the Owner, and ECO-2000, Inc., doing business as a Corporation and hereinafter called the Contractor.

**1.02 The Owner and Contractor agree as follows:**

**A. Contract Documents**

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the General Conditions, the Supplementary Conditions, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

**B. Scope of Work**

The Contractor shall perform all work required by the Contract Documents for the construction of the Ravenna Park WM Replacement

**C. Contract Time**

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 180 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ( $\frac{1}{4}$ ) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to the Measurement and Payment Provisions, and subject to actual constructed quantities; the Total Contract Price of Two million one hundred fifty five thousand nine hundred fifty dollars & 00/100's Dollars (\$ 2,155,950.00). Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

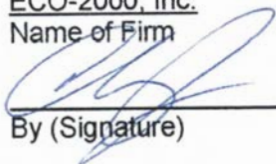
G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

ECO-2000, Inc.  
Name of Firm

  
By (Signature)

(SEAL)

Charlie Jones, President  
Printed Name and Title

ATTEST:

  
By (Signature)

Magen W. Foote / Office mgr  
Printed Name and Title

OWNER:

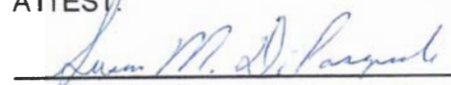
Utilities Inc. of Florida  
Name of Owner

  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:

  
By (Signature)

Susan M. D. Lasguate / Admin. Asst.  
Printed Name and Title

END OF SECTION



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

August 24, 2016

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc. of Florida  
200 Weathersfield Ave.  
Altamonte Springs, FL 32714

RE: Water Main Replacement Additional Services (CPH # U07144)

Dear Bryan:

We are pleased to submit this proposal to provide professional engineering services associated with the design, permitting, bidding, and limited post design services for the for the following service areas:

1. Phillips
2. Ravenna Park/Lincoln Heights
3. Crystal Lake
4. Little Wekiva
5. Oakland Shores
6. Bear Lake
7. Crescent Heights

Under our current contract CPH has completed all FDEP permitting requirements for all 7 locations and will continue to certify completion of the issued permits under the existing contract. This scope of services will be to provide construction plans sets sufficient for right-of-way permitting, bidding, survey, and construction. In all systems the plans will include the removal and replacement of the existing water systems.

1) Plans and Specifications (Lump Sum)

For each service area CPH will provide plan sets (including cover sheet, general notes, plan sheets (showing general locations of improvements) with typical cross sections as needed for permitting), and bid form. In lieu of survey CPH will obtain recent aerials and right-of-way maps to be used as the base plan. Project specifications will include UIF standard specifications including requirements for contractors to field locate all right-of-way lines as part of their contract to assure no right-of-way encroachment occurs.

2) Right-of-way Permits (Lump sum)

CPH will submit signed and sealed plans, permit applications (please note Seminole requires one application prepared for each Street) and utility notification letters. Contractors will pay all right-of-way permit fees are no permit fees are included.

3) Survey (Lump sum)

CPH will provide topographic survey for Oranole Rd. (Oakland Shores service area) and a crossing at HE Thomas Jr. Parkway (Crystal Lake service area) as described in the attached survey scope. CPH will also subcontract with Southeastern Survey for utility designation and five soft digs for Oranole Road as described in the attached scope of services dated 6-20-16. The fees



for both survey and utility designation for each service area are included in the lump sum fee summary shown below.

4) Bidding (Lump sum)

CPH will prepare bid plans for up to three separate bid packages. CPH will attend two pre-bid meetings and prepare meeting minutes to be used as part of the contract document. A summary of bids will also be provided.

Tasks 1 - 3	Lump Sum Fee
Bear	\$7,500.00
Crescent	\$7,500.00
Little Wekiva	\$7,500.00
Oakland	\$16,790.00
Ravenna	\$2,500.00
Crystal Lake	\$9,875.00
Philips	\$7,500.00
<b>Tasks 4</b>	
Bidding	\$1,500.00
<b>Total</b>	<b>\$60,665.00</b>

5) Post Design Services (Time and materials)

CPH will provide limited post design services which may include responses to requests for information, change orders, shop drawing review, as-needed site visits or site meetings, coordination with contractors, coordination with County, and assist UIF with any project issues. Record drawings will be provided based on Contractors submitted as-built information. A detailed breakdown of assumed time and materials per system is provided in attached T-1. Time and materials will be based on CPH standard hourly rates.

**Supplementary Services**

If authorized in writing by the Owner prior to the rendering of such services, the engineer will furnish or obtain under subcontracts, supplementary services which will be paid for by the Owner.

Additional services due to significant changes in the scope of the project or its design including, but not limited to, changes in size, complexity, character of construction or due to time delays in initiating or completion of the work as described herein.

Environmental services are not included in this scope. Survey services such as topographic easement acquisitions, sketch and descriptions, utility locates, and other survey tasks not defined herein are not included in this scope of services. Apparent right-of-way lines will be called shown on the plans for the contractor to field verify. Plans will include plan view and typical cross sections as needed for permitting, profile views are not included. Community notification coordination is not included. CPH can provide any level of these services as requested by UIF.

**Payment**

The engineering fees for the services, described herein are as summarized:

Tasks 1-4	Lump Sum	\$60,665.00
Task 5	Time and Materials	\$15,000.00
Total Contract		\$75,665.00





CPH will prepare separate invoices for each service area as requested. Progress invoices will be submitted based on the Engineer's estimate of the percent of work complete at the time of invoicing.

Charges for the services rendered by principals and employees as witnesses in any litigation, hearing or proceeding in accordance with this Contract will be computed at a rate of \$600 per day or any portion thereof.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

A handwritten signature in blue ink, appearing to read "JRM", is written over a light blue rectangular background.

James R. Morris, Jr., P.E.  
Vice President/Sr. Project Manager

**ACCEPTED BY:**  
Utilities Inc. of Florida

\_\_\_\_\_

**Date:** \_\_\_\_\_

### Task 4: Post Design Services

Task 1	Task Description	Project Manager	Project Engineer	Project Designer	Sr. Design Tech	Clerical II	Expenses
1	Phillips	10	4				\$150.00
2	Ravenna	10	4				\$150.00
3	Crystal Lake	10	4				\$150.00
4	Little Wekiva	10	4				\$100.00
5	Oakland Shores	10	4				\$150.00
6	Bear Lake	10	4				\$150.00
7	Crescent Heights	10	4				\$150.00
SUBTOTAL DIRECT LABOR		70	28	0	0	0	\$1,000

See supporting documentation for breakdown of miscellaneous expenses

SUBTOTAL		\$14,000.00
Total Labor Cost		\$14,000.00
Fees		\$1,000.00
TOTAL TASK 1 (Time and Materials)		\$15,000.00

	RATE		
Project Manager	\$150.00	70	\$10,500.00
Project Engineer	\$125.00	28	\$3,500.00
Project Designer	\$110.00	0	\$0.00
Sr. Design Technician	\$105.00	0	\$0.00
Clerical II	\$60.00	0	\$0.00
Subtotal Raw Labor			\$14,000.00

June 16, 2016

**Utilities Inc. – Oranole Rd. & HE Thomas Jr. Parkway**

**Establish Right of Way:**

- Compute right of way geometry. The following will be used to retrace the rights of way for the project area:
  - Recorded Plats
  - Right of way documentation from FDOT/County Right of Way Maps.
- Field locate boundary monumentation and field verify platted rights of way.

**Note:** CPH will rely on recorded plats/right of way maps for the location of existing right of way limits. Evaluation of ownership and encumbrances, i.e., title reports, are not included in this scope of services.

**Topographic Survey:** Perform a Topographic Survey of the rights of way contained within Area 1 (0.59± acre) & Area 2 (2.18± acres) as depicted on the attached "Survey Site Exhibit as per Rule Chapter 5J-17 of the Florida Administrative Code in compliance with the Standards of Practice of Surveying and Mapping of the State of Florida.

- Location of existing visible above ground improvements and visible utilities within scope. 50' cross sections along route within the rights of way of the project areas (as provided).
- Signed and sealed Topographic Survey.

**Benchmarks and Horizontal Control:** The project will be based on the North American Vertical Datum 88 (NAVD 88). The project will be referenced to these published elevations by field locating published benchmarks. The National Geodetic Survey and County benchmarks will be researched and verified in the field. Horizontal and vertical control points will be established for the project as required by the Standards of Practice of Surveying and Mapping of the State of Florida.

- "Horizontal control monumentation for road center-lines, right-of-way lines, reference lines or base lines shall be at least a minimum of two (2) points placed so that no point on the line being monumented is more than 700 feet from a control monument."
- "Vertical control for linear type construction sites such as roads and sewer lines shall have a maximum of 1,100 feet between existent or established benchmarks."

**Survey Fee Area 1: \$2,375.00**  
**Survey Fee Area 2: \$3,675.00**

## SURVEY SITE EXHIBIT

### Area 1



### Area 2



The following related services are not included in the scope of this proposal, and may or may not be required, but can be provided at an additional fee: Boundary Survey, ALTA/NSPS Land Title Survey, As-built Survey, Platting, Soil Borings, Sketch and Descriptions, Wetland Location/Delineation, Tree Location, State Plane Coordinates, Ordinary High Water/Mean High Water and Underground Utility Location/Designation.

**NOTE:** Extended periods of inclement weather can adversely affect the day-to-day availability of field work and therefore drastically change the timeline for project completion.



Steven L. Anderson, Jr., PSM, PLS  
 Charles M. Arnett, PSM  
 Michael L. Dougherty, PSM  
 Bruce C. Ducker, PSM  
 James M. Dunn, II, PSM  
 Thomas F. Ferguson, PSM  
 Ronnie A. Figueroa, PSM, GISP  
 Tate B. Flowers, PLS  
 Robert W. Gardner, PSM  
 Brian R. Garvey, PE, GISP  
 Daniel J. Henry, PSM, PLS  
 Matthew G. Jennings, RLS  
 Gary B. Krick, PSM  
 Brad J. Lashley, PSM, PLS  
 Myron F. Lucas, PSM  
 James E. Mazurak, PSM  
 Thomas K. Mead, PSM, PLS  
 Timothy O. Mosby, PSM



James L. Petersen, PSM  
 William C. Rowe, PSM  
 Tony G. Syfrett, PSM, PLS  
 John S. Thomas, PSM  
 Edward W. Wackerman, PSM  
 Thomas P. Young, Jr., PSM, GISP  
 Kirk R. Hall, EI, GISP  
 Brad A. Stoppel, EI, GISP  
 Catherine E. Galgano, GISP  
 Cheryl A. Isenberg, GISP  
 Brian E. Latchaw, GISP  
 Patrick J. Phillips, GISP  
 Donna L. Hendrix, CST IV  
 Frank B. Henry, CST IV  
 David M. Rentfrow, CST IV  
 Steve D. Smith, CST IV  
 Celeste B. van Gelder, CST IV

Land Surveying & Mapping Services • Sub-Surface Utility Designation & Location Services • Geographic Information Systems • GPS Asset Inventories

June 20, 2016

Via E-Mail: [jmorris@cphcorp.com](mailto:jmorris@cphcorp.com)

Mr. Jay Morris, P.E.  
 Vice President/Associate  
 CPH, Inc.  
 1117 E. Robinson Street  
 Orlando, FL 32801  
 (407) 425-0452 Ext. 2021

**RE: Oakland Shores Water Main Replacement  
 Oranole Road, Orlando, FL  
 Section 24, Township 21 South, Range 29 East, Orange County, Florida**

Dear Mr. Morris,

We are pleased to submit our proposal for Subsurface Utility Designation and Verification on the above referenced project.

#### SCOPE OF WORK:

1. Horizontally locate and field mark (paint & flags) all public subsurface utility mains found excluding service lines, gravity sewer lines and irrigation, within the area outlined in yellow on the aerial print provided via email on 06/17/2016.
2. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
3. Expose the subject utilities by using nondestructive vacuum excavation methods at approximately **five (5)** specific locations indicated on plan sheet provided or marked by client in the field.
4. Confirm/determine the vertical and horizontal position of the subject utilities and record the information, using the locate marks provided by the utility owners and/or their representatives unless otherwise specifically requested by client.
5. Any asphalt/concrete removed will be repaired using like materials.

6500 All American Blvd Orlando, FL 32810 407.292.8580 407.292.0141 Fax	1130 Highway 90 Chipley, FL 32428 850.638.0790 850.638.8069 Fax	Cypress Business Center 8301 Cypress Plaza Drive Suite 104 Jacksonville, FL 32256 904.737.5990 904.737.5995 Fax	119 West Main Street Tavares, FL 32778 352.343.4880 352.343.4914 Fax	111 East Lake Street Kissimmee, FL 34744 407.944.4880 407.944.0424 Fax	University Corporate Park 10770 North 46 <sup>th</sup> Street Suite C-300 Tampa, FL 33617 813.898.2711 813.898.2712 Fax
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**Licenses:** PSM: Florida Professional Surveyor & Mapper • PLS: Alabama Professional Land Surveyor • RLS: Georgia Registered Land Surveyor • PE: Professional Engineer  
**Certifications:** EI: Engineering Intern • GISP: Geographic Information Systems Professional • CST: Certified Survey Technician



6. Tie each test hole location to a minimum of three visible physical features to enable this data to be added to your base map and also enable future recovery.
7. Survey collection of all utility designation marks and test holes with control furnished by client.

The final product will be a field drafted plan sheet or utility designation field sketch, test hole reports/sketches, and electronic CAD file of the project area reflecting all pertinent data for your use.

### **Terms and Conditions**

It is understood that the construction contractor is responsible to abide by Sunshine 811, Florida State Statutes Chapter 556.106 and all applicable laws, and regulations that pertain to the services provided.

CPH, Inc. will make available all plans and utility records that have been obtained for this site. However, the information provided by CPH, Inc. is also dependent upon a Sunshine 811 request for utility owners and/or their representatives to mark their buried underground plant at the project site as required by law. Southeastern Surveying and Mapping Corporation (SSMC) has a right to rely on the accuracy of such plans and utility records and will notify CPH, Inc. if there are any patently or reasonably identifiable defects in the documents.

CPH, Inc. is aware that due to the inherent uncertain nature of subsurface utilities, including but not limited to deficient or misrepresentation of prints, SSMC cannot guarantee that all subsurface utility lines will be accounted for. SSMC will ensure that all reasonable efforts are made to identify the location of said underground utilities and provide the best available information within the project area with the use of Ground Penetrating Radar, Electronic Line Locating Equipment and Vacuum Excavation methods, as needed. Additional research will only be conducted by SSMC if requested in writing by CPH, Inc.

M.O.T. will be used only if absolutely necessary and these invoice charges will be an addition to the total per day rate and reflected on our invoice to you.

In accordance with the Underground Facility Damage Prevention and Safety Act, the Design Engineer shall perform sufficient Utility Coordination with the Utility providers in this location to affirm the information from SSMC's efforts and confirm that no other subsurface utility is possibly undetected by these efforts.

SSMC will certify that the surface designation is within two (2) feet of the true underground position of the utility relative to the mark as shown on the surface in accordance with the plans provided and the reasonable efforts conducted to locate the utilities as outlined above.

SSMC shall not be held liable for any latent or unreasonably discoverable utilities in the project area. Furthermore in the event of a claim regarding the services provided in the proposal, SSMC shall have liability for reasonable and necessary defense costs to the extent caused by SSMC's negligence.

If SSMC is required to obtain permits to perform the service provided, these charges will also be additional and reflected on our invoice to you.

**Note:** In the event that Test Holes require a depth greater than ten (10) feet, or require a substantial amount of increased effort (sleeving, shoring, de-watering, etc.), then said Test Holes may need to be negotiated separately on a case by case basis if normal vacuum excavation practices do not allow said utilities to be exposed.

**Note:** All utility sizes given are outside diameter unless otherwise specified and are approximate only due to uncontrollable field conditions that may be encountered during excavation.

**Note:** Any additional overlaying or restoration of pavement, other than the replacement of materials removed and cold patched, will be the responsibility of CPH, Inc.

Our fee for this project will be as follows:

**Subsurface Utility Designation/Survey Collection:                   \$3,696.00**

**Test Holes/Day Rate:**

**\$384.00 Dirt/Each (anticipate 5)   \$1,920.00**

\$438.00 Asphalt/Concrete/Each (anticipate 0)

**M.O.T. (SSMC) (Required for roadway test holes)**

\$576.00 per Lane Closure/Day Rate

\$768.00 per Lane Closure/Night Rate

**Permitting: (If required for roadway test holes)**

\$94.00 per hour + cost of permit

**Police Officer: (Required)**


\$50.00 per hour (estimate 0)

**Anticipated Project Total:   \$5,616.00**

We anticipate completion of the above described work within four (4) weeks after receipt of approved permit and written notice to proceed. Payment is expected within thirty (30) days from date of invoice.

We look forward to the opportunity to work with you on this project.

Sincerely,



M. Scott Sowards  
Utility Division Project Manager

MSS:gac

If the above scope, period of service and method of compensation meets with your approval, please execute below and fax to SSMC as notice to proceed along with the notice of commencement.

If your firm prefers using your own standard PROFESSIONAL SERVICES AGREEMENT in lieu of this proposal letter, this document MUST BE furnished to SSMC, negotiated, and executed prior to the commencement of any service.

**Send all Agreements to:**

**Orlando Corporate Office**  
**6500 All American Boulevard**  
**Orlando, FL 32810.**  
Fax: 407-292-0141  
Email: [info@southeasternsurveying.com](mailto:info@southeasternsurveying.com)

Your firm agrees that by (1) signing and returning this Proposal, or (2) partial or complete performance under this Proposal and SSMC has not received, negotiated and/or executed a PROFESSIONAL SERVICES AGREEMENT, then it is agreed that THE TERMS AND CONDITIONS IN THIS PROPOSAL SHALL GOVERN THE SERVICES RENDERED.

Furthermore, if requested, your firm acknowledges that by accepting this Proposal, SSMC will provide your firm with an insurance certificate that (1) contains the project name and (2) lists your firm as the certificate holder.

The person executing this document **must indicate** that he/she is a Principal and/or Corporate Officer.

If the signatory is not a Principal and/or Corporate Officer, a Letter of Authorization on company letterhead signed by a Principal and/or Corporate Officer, MUST be provided that specifically states that signatory has the authority to bind the parties by entering into this agreement.

**ACCEPTED BY:**

/

Principal / or Corporate Officer	TITLE	Printed Name	Date
----------------------------------	-------	--------------	------

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-45**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

**ADD-CHANGE FORM****New Project or Budget Change?**

New Project

**Assigned Project #:** 2015080**Requested by:**

Bryan K. Gongre

**Date:**

4/13/2015

Project Manager / Area Manager

**Project Name:**

Crystal/Ravenna IC &amp; WTP Impv

**Company:**

252

Utilities Inc of Florida

**Business Unit:**

252118

Ravenna Park W

**Project Owner:**

John Hoy

**BU Type:**

WP

**Project Manager:**

Bryan K. Gongre

**Budget Owner / RVP:**

John Hoy

03

**Start Date:**

4/20/2015

Q2 2015

**Region:**

Florida

04

**Estimated End Date:**

1/1/2016

Q1 2016

**State:**

FL

**Project Type:**

Cost Reduction

**Will project replace/retire any assets:**

Yes

**Previously Requested:**

\$627,935

**This Request:**

\$17,900

**Still to be Requested:****Total Project Budget:**

\$645,835

**Description:****Phase 1:**

To construct an interconnection between the Ravenna Park and Crystal Lake water distribution systems. Approximately 3,075 linear feet of 6-inch PVC water main from the Ravenna Park WTP to the intersection of Lake Boulevard and Sunset Drive in the Crystal Lake service area.

**Phase 2:**

Demolish the existing 20,000 gallon GST at the Ravenna Park WTP and then construct improvements to the Ravenna Park WTP of one (1) 31-foot diameter, 17-foot high GST with a total volume of 103,000 gallons (useful volume: 78,750 gallons). The bottom four feet of tank is reserved as unused. One (1) 560-gpm cascade aerator adjacent to the tank. Relocation of the existing high service pumps, 3,000 gallon hydropneumatic tank and associated appurtenances such as piping valves, etc. Demolish the existing facilities at the Crystal Lake WTP and abandon the potable well.

Change Order #1 - Installation a temporary interconnect with the City of Sanford to include a 4" meter, 6" RPZ BFP and piping.

**Timeline Considerations:**

The project has a 270 day construction period. The interconnect pipeline must first be constructed and cleared for service prior to the demolition work. During the pipeline construction, application will be made for the Building permit so that the permit is in hand to immediately begin the Ravenna Park WTP site improvements.

**Inter-dependant Project****Project Number:**

2014071

**Project Name**

Eng. Crystal Ravenna IC

(If applicable)

**Have engineering evaluations been performed?**

Yes

**Engineering project number**

2014071

(If applicable)



**Justification and Benefits:**

The Crystal Lake WTP was originally constructed in the late 1950's and includes a single well, chlorination equipment and a hydropneumatic tank. The service area is comprised of 175 potable water only connections. In the early 1990's the Utility entered into an emergency interconnect agreement with an adjacent municipality, the City of Sanford, and constructed a 4" automatic interconnect jumper assembly to provide an auxiliary water source in the event of a plant outage and to maintain compliance with FDEP regulations.

Over the last several years the well has been producing sand that was first resolved by adding a sand filter with an automatic backwash feature. This resolved the immediate need but the ongoing sand production damaged the pump impellers requiring the pump to be replaced on an annual basis over the last three years. Recently the sand production is such that the sand filter becomes fouled within a matter hours and cannot backwash frequently enough to keep water production at a rate sufficient to meet system demands. This condition creates a low pressure event that activates the automatic interconnect and elevates purchased water expense. The well casing and bore hole have been videoed with no obvious problems detected as regards casing condition and water production zones.

The Utility met with the City of Sanford to determine their level of interest in providing a permanent wholesale interconnect water supply to the service area by revising the existing emergency use agreement. The City was not opposed to this proposal and provided the Utility with the connection fee cost per customer and the consumption rates both of which include a 25% surcharge as the system is located in unincorporated Seminole County outside of the City limits. These costs were taken under consideration with the decision being that an analysis should be performed by our contract engineers to determine whether it would be more cost effective to interconnect the Crystal Lake system with the nearby Ravenna Park system or to enter into a wholesale agreement. This analysis has revealed that it would be more prudent to interconnect the two systems as the capital investment costs in comparison to a wholesale provision would be recovered in 3.5 years.

**Risk Evaluation**

Risks include the potential failure of one of the two existing Ravenna Park wells. In the event such an instance were to occur the City of Sanford interconnect would be utilized while a new well was permitted, drilled and equipped.

The possibility exists as with any other supply that a new regulation is implemented such as testing for a new contaminant or an existing sampling requirement results in a detect that requires additional treatment. In such an instance the Ravenna Park site is sized to adequately to accommodate additional treatment components of a moderate size to address such an issue.

**Alternatives Considered:**

#1. Dowsize the Crystal Lake WTP well pump assembly and motor. This option does not allow the system demands to be met and pump replacements would continue.

#2. Drill a new well on the existing Crystal Lake WTP property. The parcel has too small of a footprint to allow a new well to be constructed.

**Technical Review Summary:**



## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	627,935				
Project Spend in Current Plan	500,000				
Variance	(127,935)	-	-	-	-
CIAC Collected					
Net Rate Base	627,935	627,935	627,935	627,935	627,935

(if applicable)

### O&M Cost Impact B/(W)

-	57,400	57,400	57,400	57,400
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### Financial Justification

The plan is to file for rate relief in UIF (9/30/2015) this year. This would allow for 100% rate recovery as it is proforma. Currently, Utilities Inc. of Florida purchases the necessary water to meet the demands of the Crystal Lake service area. The annual bulk water costs are currently \$62,400, which would be reduced to <\$5,000 upon completion of the project.

The customer count between Crystal Lake and Ravenna Park water systems is about 537. These two water systems plus seven others comprise the customer and rate base associated with UIF's Seminole County systems. The total number of customers in all of Seminole County is approximately 2,745.

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(8)	(8)
537	2,745

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		57,400	57,400	57,400	57,400
Depreciation Impact on EBIT B/(W)	-	(15,698)	(15,698)	(15,698)	(15,698)
Under-recovery on capital B/(W)		(45,918)	(44,740)	(43,563)	(42,386)
Net EBIT Impact B/(W)	-	(4,216)	(3,039)	(1,861)	(684)

### Timing and Supporting Information on Rate Recovery

The plan is to file for rate relief in UIF (9/30/2015) this year. This would allow for 100% rate recovery as it is proforma.

### Regulatory Plan Implications

This project has been added to the 2015 capital plan. The regulatory lag would initially suppress ROE for the next 12 to 24 months, but then see an increase with the new rates.

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

Yes

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	ECO - 2000	\$595,935	Yes
2	Traverse Group	\$674,324	No
3	CFT	\$659,200	No

### Component:

### Amount

Value Bid Elements

595,935.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

CEI Costs

22,000.00

Crystal Lake Well Abandonment

10,000.00

Change Order #1

17,900.00

Installation of new tank and piping(K&W)

Misc. temp. fencing and rework fence after installation  
(Scott Reeder)

### Total Project Budget

645,835.00

Object Account(s) to which project will be closed:

1125

1055

Trans & Distr Mains

Struct & Imprv Wtr Trt Plt

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

The project budget was originally \$500,000 based on estimated unit costs for the pipe work and an estimate of the work at the Ravenna Park WTP. However, the budget was increased to reflect the low bid amount.



## Approvals

### EAM Prime Review

Review Completed by

Date:

Does project align with utility plan and meet technical requirements?

Yes ☐ No ☐

Comments

### Technical Peer Review

Review Sponsored by

Patrick C. Flynn

Date Held

3/5/2015

Approval to proceed

Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

Ken Morrison counseled to be sure the contract covered all the bases. Bryan informed CPRT that the form and content of the contract had been used successfully on previous capital projects.

### FP&A Review

Review Completed by

Christie Kincaid

Date:

4/21/2015

Does Project comply with current Utility Rate and Regulatory Plan?

Yes ☒ No ☐

Comments

### Approvals

Applicable?

Regional Manager:

Bryan K. Gongre

Date:

4/15/2015

☒

VP Operations:

Patrick C. Flynn

Date:

4/27/2015

☒

President:

John P Hoy

Date:

5/4/2015

☒

### Approval or Re-Direction Comments



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

April 13, 2015

Mr. Bryan Gongre  
Regional Manager  
Utilities Inc., of Florida  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

RE: Crystal Lake/Ravenna Park CEI Services Proposal

Mr. Gongre:

The Crystal Lake water system is proposed to be interconnected with the Ravenna Park water system in order to shut down the Crystal Lake water treatment facility. This project has been designed and bid for construction. This proposal is to detail the services requested for construction administration and inspection. We propose the following scope for your consideration:

**Scope**

Construction Administration - This project entails a considerable degree of sequential construction operations and potential conflict resolution. This task includes the coordination with the contractor for the sequence of construction. Coordination of permitting activities with Seminole County for any additional right of way or site inspections is also included in this task. The proposed cost for this task is \$3,500.

Construction Inspection - This task includes construction inspection services on a periodic basis. We are only proposing part time inspection services at an average of 2 hours per week for the 270 day construction period plus electrical inspection services (\$3,500). The proposed cost for this task is \$15,000.

Project Closeout - This task includes final inspections, startup attendance, clearance documentation, and record drawing preparation. The proposed cost for this task is \$3,500

**Payment**

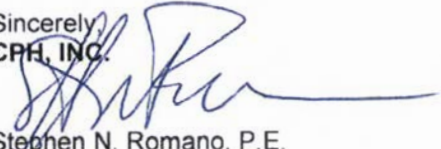
The engineering fee for the services, described herein is estimated to be \$22,000.00, including out of pocket expenses.

If this Contract is terminated during prosecution of the services prior to completion of the services, payments to be made on account of that and all prior work under this Contract shall be due and payable, and shall constitute total payment for services rendered. In addition, upon termination, engineer shall be paid for any Supplementary Services authorized and rendered.

If you are in agreement with the terms and fees proposed, please sign on the space provided below and return one (1) copy to us.

If you have any questions please call me.

Sincerely,  
CPH, INC.

  
Stephen N. Romano, P.E.  
Vice President/Associate

ACCEPTED BY:  
UTILITIES, INC. OF FLORIDA

Date: \_\_\_\_\_



SECTION 00410

BID FORM

PART 1 GENERAL

1.01 Description

The following Bid, for the (1) Crystal Lake / Ravenna Park Interconnect, is hereby made to (2) Utilities, Inc. of Florida, hereafter called the Owner. This Bid is submitted by (3) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(1) Name of Project as shown in the Invitation for Bids

(2) Owner

(3) Name, address, and telephone number of Bidder

1.02 The Undersigned:

A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.

2. Addenda:      Number        1        Dated March 15, 2015  
                         Number      \_\_\_\_\_      Dated \_\_\_\_\_  
                         Number      \_\_\_\_\_      Dated \_\_\_\_\_  
                         Number      \_\_\_\_\_      Dated \_\_\_\_\_

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.

2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.

3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.

4. To accomplish the work in accordance with the Contract Documents.

00410-1

5. To begin work not later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 270 calendar days of the date of the Notice to Proceed.
6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### 1.03 Lump Sum Price

The undersigned will construct this project for the Base Bid Lump Sum Price of \$ Six Hundred Fifty Nine Thousand Two Hundred Dollars (\$ 659,200.00).

### 1.04 Schedule of Values

The Bidder hereby indicates the following total units and total prices which represent all materials, labor, equipment, transportation, performance of all operations relative to construction of the project, overhead, and costs of all kinds and profit to complete the work items in accordance with the Project Manual, plans, and permits. Work for which there is not a listed item below shall be considered incidental to the Contract and no additional compensation will be allowed.

ITEM	UNIT	QUANTITY	TOTAL PRICE
Mobilization and Bond	LS	1	30,000.00
6" interconnect pipeline (inc. valves, restoration, and connections)	LS	1	140,000.00
8" SR 46A crossing	LS	1	16,700.00
Site Demolition	LS	1	31,000.00
Site Piping	LS	1	64,000.00
Equipment relocations	LS	1	19,500.00
Tank, aerator, & accessories	LS	1	285,000.00
Electrical	LS	1	37,000.00
Fence and site restoration	LS	1	18,500.00
Startup and testing	LS	1	7,500.00
Permitting Fees	LS	1	\$10,000
	LS	1	
<b>TOTAL LUMP SUM PRICE (BASE BID)</b>			<b>\$ 659,200.00</b>

### 1.05 Miscellaneous Requirements and Affirmations

- A. Proposals (Bids) must be on the Bid Form.
- B. I have attached the following required fully executed forms to this Bid:
  1. Bid Security complying with the requirements of the Bidding Documents.
  2. Trench Safety Statement - Section 00430

00410-2

1.06 RESPECTFULLY SUBMITTED, signed and sealed this 19 day of MARCH, 2015.

CENTRAL Florida TAPPING  
Contractor

Richard E. Bullington MARCH 19, 2015  
By (Signature) Date

Richard E. Bullington, President  
Printed Name and Title

P.O. Box 521279  
Business Address

Longwood, FL 32752  
City State Zip Code

(CORPORATE SEAL)

407-934-9271  
Telephone No. Facsimile No.

rick@centralfloridatapping.com  
E-Mail Address

ATTEST:

Richard E. Bullington 3-19-15  
By (Signature) Date

Richard E. Bullington, President  
Printed Name and Title

END OF SECTION

00410-3

**FROM:**

ECO-2000 INC

1611 W C-48

BUSHNELL FL 33513

BID DATE: 03/19/2015

BID TIME: 2:00 PM

**RE:**

BID FOR:

CRYSTAL LAKE / RAVENNA PARK INTERCONNECT

CPH JOB NO. U0799.2

**TO:**

CPH INC.      ATTN: STEPHEN ROMANO

1117 EAST ROBINSON ST.

ORLANDO FL 32801

SECTION 00410

BID FORM

PART 1 GENERAL

1.01 Description

The following Bid, for the (1) Crystal Lake / Ravenna Park Interconnect, is hereby made to (2) Utilities, Inc. of Florida, hereafter called the Owner. This Bid is submitted by (3) ECO-2000, Inc., 1611 West CR 48, Bushnell, FL 33513  
(352) 793-5060

- (1) Name of Project as shown in the Invitation for Bids  
(2) Owner  
(3) Name, address, and telephone number of Bidder

1.02 The Undersigned:

A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.
2. Addenda:      Number   1        Dated 03/15/2015  
                         Number             Dated         
                         Number             Dated         
                         Number             Dated

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents.

00410-1



5. To begin work not later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 270 calendar days of the date of the Notice to Proceed.
6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### 1.03 Lump Sum Price

The undersigned will construct this project for the Base Bid Lump Sum Price of \$ Five hundred ninety five thousand nine hundred thirty four dollars & ninety seven cents Dollars (\$ 595,934.97).

### 1.04 Schedule of Values

The Bidder hereby indicates the following total units and total prices which represent all materials, labor, equipment, transportation, performance of all operations relative to construction of the project, overhead, and costs of all kinds and profit to complete the work items in accordance with the Project Manual, plans, and permits. Work for which there is not a listed item below shall be considered incidental to the Contract and no additional compensation will be allowed.

ITEM	UNIT	QUANTITY	TOTAL PRICE
Mobilization and Bond	LS	1	34,000.00
6" interconnect pipeline (inc. valves, restoration, and connections)	LS	1	122,855.00
8" SR 46A crossing	LS	1	14,238.00
Site Demolition	LS	1	20,376.00
Site Piping	LS	1	22,188.97
Equipment relocations	LS	1	35,909.00
Tank, aerator, & accessories	LS	1	277,734.00
Electrical	LS	1	38,520.00
Fence and site restoration	LS	1	26,634.00
Startup and testing	LS	1	3,480.00
	LS	1	0
	LS	1	0
TOTAL LUMP SUM PRICE (BASE BID)			\$ 595,934.97

### 1.05 Miscellaneous Requirements and Affirmations

- A. Proposals (Bids) must be on the Bid Form.
- B. I have attached the following required fully executed forms to this Bid:
  1. Bid Security complying with the requirements of the Bidding Documents.
  2. Trench Safety Statement - Section 00430

SECTION 00410

BID FORM

PART 1 GENERAL

1.01 Description

The following Bid, for the (1) Crystal Lake / Ravenna Park Interconnect, is hereby made to (2) Utilities, Inc. of Florida, hereafter called the Owner. This Bid is submitted by (3)

Traverse Group, Inc.  
PO Box 121754  
Clermont FL 34712  
352.409.6630

(1) Name of Project as shown in the Invitation for Bids  
(2) Owner  
(3) Name, address, and telephone number of Bidder

1.02 The Undersigned:

A. Acknowledges receipt of:

1. Project Manual and Drawings identified within the Project Manual.
2. Addenda: 

Number	<u>1</u>	Dated	<u>3/15/15</u>
Number	<u>      </u>	Dated	<u>      </u>
Number	<u>      </u>	Dated	<u>      </u>
Number	<u>      </u>	Dated	<u>      </u>

B. Has examined the site and all Bidding Documents and understands that in submitting his Bid, he waives all right to plead any misunderstanding regarding the same.

C. Agrees:

1. To hold this Bid open for 90 calendar days after the bid opening date.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a contract with the Owner, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents.

00410-1

5. To begin work not later than 10 days after the issuance of a Notice to Proceed, unless otherwise provided, and substantially complete the work within 270 calendar days of the date of the Notice to Proceed.
6. To accept the provisions of the Agreement as to liquidated damages in the event of failure to complete the work on time.

### 1.03 Lump Sum Price

The undersigned will construct this project for the Base Bid Lump Sum Price of \$ Six hundred seventy four thousand three hundred & twenty four Dollars (\$ 674,324.00 ).

### 1.04 Schedule of Values

The Bidder hereby indicates the following total units and total prices which represent all materials, labor, equipment, transportation, performance of all operations relative to construction of the project, overhead, and costs of all kinds and profit to complete the work items in accordance with the Project Manual, plans, and permits. Work for which there is not a listed item below shall be considered incidental to the Contract and no additional compensation will be allowed.

ITEM	UNIT	QUANTITY	TOTAL PRICE
Mobilization and Bond	LS	1	\$ 65250.00
6" interconnect pipeline (inc. valves, restoration, and connections)	LS	1	\$ 152631.53
8" SR 46A crossing	LS	1	\$ 42826.00
Site Demolition	LS	1	\$ 30500.00
Site Piping	LS	1	\$ 16383.00
Equipment relocations	LS	1	\$ 25000.00
Tank, aerator, & accessories	LS	1	\$ 277734.00
Electrical	LS	1	\$ 42500.00
Fence and site restoration	LS	1	\$ 15500.00
Startup and testing	LS	1	\$ 6000.00
	LS	1	
	LS	1	
TOTAL LUMP SUM PRICE (BASE BID)			\$ 674,324.53

### 1.05 Miscellaneous Requirements and Affirmations

- A. Proposals (Bids) must be on the Bid Form.
- B. I have attached the following required fully executed forms to this Bid:
  1. Bid Security complying with the requirements of the Bidding Documents.
  2. Trench Safety Statement - Section 00430

## SECTION 00520

### AGREEMENT FORM

#### PART 1 GENERAL

1.01 **THIS AGREEMENT**, made this 29<sup>th</sup> day of May, 2015, by and between Utilities, Inc. of Florida, hereinafter called the Owner, and ECO-2000, Inc., whose principal and local address is 1611 West CR 48, Bushnell, FL 33513, hereinafter called the Contractor.

1.02 **The Owner and Contractor Agree as follows:**

A. Contract Documents

The Contract Documents include the Agreement, Addenda (which pertain to the Contract Documents), Contractor's Bid, Notice to Proceed, the Bonds, the General Conditions, the Supplementary Conditions, the Specifications listed in the Index to the Project Manual, any technical specifications as incorporated by the Project Manual; the Drawings as listed in the Project Manual, all Written Amendments, Change Orders, Work Change Directives, Field Orders, and Engineer's written interpretations and clarifications issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. Scope of Work

The Contractor shall perform all work required by the Contract Documents for the construction of the Crystal Lake/ Ravenna Park Interconnect.

C. Contract Time

The Contractor shall begin work after the issuance of a written Notice to Proceed from Owner and shall substantially complete the work within the Contract Time identified in Paragraphs 1.02.C.5 of the Bid Form, which is 270 calendar days. The work shall be finally complete, ready for Final Payment in accordance with the General Conditions, within 30 calendar days from the actual date of substantial completion.

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof,

00520-1



OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$ 500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth (1/4) of the rate set forth above.

E. Contract Price

Lump Sum Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order, the Total Contract Price of Five hundred ninety five thousand nine hundred thirty four dollars and ninety seven cents Dollars (\$595,934.97). Payments will be made to the Contractor based on the Lump Sum Bid amount, the Schedule of Values included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein, and subject to completion of the work, in accordance with the Contract Documents.

F. Payments

The Owner will make payments as provided in the General Conditions and Supplementary Conditions.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made and amounts withheld in accordance with the General Conditions and Supplementary Conditions. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract, but may choose to do so at its discretion once the Work is at least 75% complete.

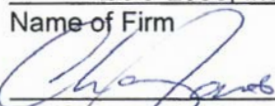
H. Engineer

The Project has been designed by CPH, Inc., referred to in the documents as the Engineer, whose authority during the progress of construction is defined in the General Conditions and Supplementary Conditions.



IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

ECO-2000, Inc.  
Name of Firm  
  
By (Signature)

(SEAL)

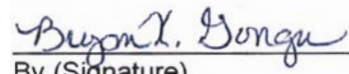
Charlie Jones, President  
Printed Name and Title

ATTEST:

  
By (Signature)


Valerie S. Langelier, Operations Manager  
Printed Name and Title

OWNER:

Utilities, Inc. of Florida  
Name of Owner  
  
By (Signature)

(SEAL)

Bryan K. Gongre, Regional Manager  
Printed Name and Title

ATTEST:  
  
By (Signature)

Susan M. D. Pasquale, Administrative Assistant  
Printed Name and Title

END OF SECTION

00520-3

# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: PROJECT: APPLICATION NO: 02 REV  
Utilities, Inc. of Florida Crystal Lake / Ravenna Park Interconnect

Distribution to:  
☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR

FROM CONTRACTOR: VIA ARCHITECT:  
ECO-2000, INC. CPH, INC.  
1611 WEST CR 48 1117 E. ROBINSON ST.  
BUSHNELL, FL 33513 ORLANDO, FL 32801  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 09/03/2015

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	595,934.97
2. Net change by Change Orders	\$	
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	595,934.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	176,866.00
5. RETAINAGE:		
a. 10 % of Completed Work (Column D + E on G703)	\$	14,909.30
b. % of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	14,909.30
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	161,956.70
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	27,773.00
8. CURRENT PAYMENT DUE	\$	134,183.70
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	433,978.27

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By: Charlie A. Jones Date:  
State of: FLORIDA County of: SUMTER  
Subscribed and sworn to before me this day of  
Notary Public:  
My Commission expires:

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By: Date:  
This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 02 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00						\$10,000.00	\$0.00
2	Mobilization/Demobilization	\$24,000.00		\$12,000.00		\$12,000.00	50.00%	\$12,000.00	\$1,200.00
3	6" Interconnect Pipeline	\$122,855.00		\$122,855.00		\$122,855.00	100.00%		\$12,285.50
4	8" SR 46A Crossing	\$14,238.00		\$14,238.00		\$14,238.00	100.00%		\$1,423.80
5	Site Demolition	\$20,376.00						\$20,376.00	\$0.00
5	Piping	\$22,188.97						\$22,188.97	\$0.00
6	Sub-total	\$213,657.97							\$0.00
	<b>Tank</b>								\$0.00
6	Equipment relocations	\$35,909.00						\$35,909.00	\$0.00
7	Tank, aerator & accessories	\$277,734.00	\$27,773.00			\$27,773.00	10.00%	\$249,961.00	\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<b>Electrical</b>	\$38,520.00						\$38,520.00	\$0.00
	<b>Fence and Site Restoration</b>	\$26,634.00						\$26,634.00	\$0.00
	<b>Startup and Testing</b>	\$3,480.00						\$3,480.00	\$0.00
	<b>Change Order</b>								\$0.00
	<b>GRAND TOTALS</b>	\$595,934.97	\$27,773.00	\$149,093.00	\$0.00	\$176,866.00		\$419,068.97	\$14,909.30

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: PROJECT: APPLICATION NO: 03 REV  
Utilities, Inc. of Florida Crystal Lake / Ravenna Park Interconnect

Distribution to:  
☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR  
☐  
☐

FROM CONTRACTOR: VIA ARCHITECT:  
ECO-2000, INC. CPH, INC.  
1611 WEST CR 48 1117 E. ROBINSON ST.  
BUSHNELL, FL 33513 ORLANDO, FL 32801  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 10/23/2015

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$ 595,934.97
2. Net change by Change Orders	\$
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$ 595,934.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$ 313,507.00
5. RETAINAGE:	
a. 10 % of Completed Work (Column D + E on G703)	\$ 15,909.30
b. % of Stored Material (Column F on G703)	\$
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$ 15,909.30
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$ 297,597.70
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$ 161,956.70
8. CURRENT PAYMENT DUE	\$ 136,641.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$ 301,114.57

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By: Charlie A. Jones Date: \_\_\_\_\_  
State of: FLORIDA County of: SUMTER  
Subscribed and sworn to before me this day of \_\_\_\_\_  
Notary Public:  
My Commission expires: \_\_\_\_\_

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED . . . . . \$ \_\_\_\_\_

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 03 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00		\$10,000.00		\$10,000.00	100.00%		\$1,000.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00			\$12,000.00	50.00%	\$12,000.00	\$1,200.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$12,285.50
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$1,423.80
5	Site Demolition	\$20,376.00						\$20,376.00	\$0.00
5	Piping	\$22,188.97						\$22,188.97	\$0.00
6	Sub-total	\$213,657.97							\$0.00
	<b><u>Tank</u></b>								\$0.00
6	Equipment relocations	\$35,909.00						\$35,909.00	\$0.00
7	Tank, aerator & accessories	\$277,734.00	\$27,773.00	\$126,641.00		\$154,414.00	55.60%	\$123,320.00	\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<b><u>Electrical</u></b>	\$38,520.00						\$38,520.00	\$0.00
									\$0.00
	<b><u>Fence and Site Restoration</u></b>	\$26,634.00						\$26,634.00	\$0.00
									\$0.00
	<b><u>Startup and Testing</u></b>	\$3,480.00						\$3,480.00	\$0.00
									\$0.00
	<b><u>Change Order</u></b>								\$0.00
									\$0.00
	<b><u>Payment Shortage-Draw #2</u></b>	\$2,777.30						\$2,777.30	\$0.00
	<b>GRAND TOTALS</b>	\$595,934.97	\$176,866.00	\$136,641.00	\$0.00	\$313,507.00		\$285,205.27	\$15,909.30

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity



# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: PROJECT: APPLICATION NO: 04 REV  
Utilities, Inc. of Florida Crystal Lake / Ravenna Park Interconnect

Distribution to:  
☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR

FROM CONTRACTOR: VIA ARCHITECT:  
ECO-2000, INC. CPII, INC.  
1611 WEST CR 48 1117 E. ROBINSON ST.  
BUSHNELL, FL 33513 ORLANDO, FL 32801  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 03/10/2016

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	595,934.97
2. Net change by Change Orders	\$	12,788.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	608,722.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	369,901.00
5. RETAINAGE:		
a. 10 % of Completed Work (Column D + E on G703)	\$	17,548.70
b. % of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	17,548.70
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	352,352.30
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	298,597.70
8. CURRENT PAYMENT DUE	\$	56,394.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	236,370.67

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month	\$12,788.00	
TOTALS	\$12,788.00	
NET CHANGES by Change Order	\$12,788.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By: Charlie A. Jones Date: \_\_\_\_\_  
State of: FLORIDA County of: SUMTER  
Subscribed and sworn to before me this day of \_\_\_\_\_  
Notary Public:  
My Commission expires: \_\_\_\_\_

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED ..... \$ \_\_\_\_\_

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By: \_\_\_\_\_ Date: \_\_\_\_\_

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 04 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$1,000.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00			\$12,000.00	50.00%	\$12,000.00	\$1,200.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$12,285.50
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$1,423.80
5	Site Demolition	\$20,376.00		\$10,000.00		\$10,000.00	49.08%	\$10,376.00	\$1,000.00
5	Piping	\$22,188.97						\$22,188.97	\$0.00
6	Sub-total	\$213,657.97							\$0.00
	<b>Tank</b>								\$0.00
6	Equipment relocations	\$35,909.00						\$35,909.00	\$0.00
7	Tank, aerator & accessories	\$277,734.00	\$154,414.00	\$40,000.00		\$194,414.00	70.00%	\$83,320.00	\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<b>Electrical</b>	\$38,520.00						\$38,520.00	\$0.00
	<b>Fence and Site Restoration</b>	\$26,634.00						\$26,634.00	\$0.00
	<b>Startup and Testing</b>	\$3,480.00						\$3,480.00	\$0.00
	<b>Change Order</b>								
	Temporary 6" Interconnect	\$12,788.00		\$6,394.00		\$6,394.00	50.00%	\$6,394.00	\$639.40
	Payment Shortage-Draw #2	\$1,777.30							
	<b>GRAND TOTALS</b>	\$595,934.97	\$313,507.00	\$56,394.00	\$0.00	\$369,901.00		\$238,821.97	\$17,548.70

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF

2

PAGES

TO OWNER:  
Utilities, Inc. of Florida

PROJECT:  
Crystal Lake / Ravenna Park Interconnect

APPLICATION NO: 05 REV

Distribution to:

<input type="checkbox"/>	OWNER
<input type="checkbox"/>	ARCHITECT
<input type="checkbox"/>	CONTRACTOR
<input type="checkbox"/>	
<input type="checkbox"/>	

PERIOD TO: 04/01/2016

FROM CONTRACTOR:  
ECO-2000, INC.  
1611 WEST CR 48  
BUSHNELL, FL 33513  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

VIA ARCHITECT:  
CPH, INC.  
1117 E. ROBINSON ST.  
ORLANDO, FL 32801

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	595,934.97
2. Net change by Change Orders	\$	12,788.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	608,722.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	376,386.00
5. RETAINAGE:		
a. 10 % of Completed Work (Column D + E on G703)	\$	18,836.60
b. % of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	18,836.60
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	357,549.40
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	354,991.70
8. CURRENT PAYMENT DUE	\$	12,879.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	244,779.57

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$12,788.00	
Total approved this Month		
TOTALS	\$12,788.00	
NET CHANGES by Change Order	\$12,788.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Charlie A. Jones  
State of: FLORIDA County of: SUMTER  
Subscribed and sworn to before me this day of \_\_\_\_\_  
Notary Public:  
My Commission expires: \_\_\_\_\_

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED: \$ \_\_\_\_\_

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: \_\_\_\_\_ Date: \_\_\_\_\_

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 05 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$1,000.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00			\$12,000.00	50.00%	\$12,000.00	\$1,200.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$12,285.50
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$1,423.80
5	Site Demolition	\$20,376.00	\$10,000.00			\$10,000.00	49.08%	\$10,376.00	\$1,000.00
5	Piping	\$22,188.97						\$22,188.97	\$0.00
6	Sub-total	\$213,657.97							\$0.00
	<u>Tank</u>								\$0.00
6	Equipment relocations	\$35,909.00						\$35,909.00	\$0.00
7	Tank, aerator & accessories	\$277,734.00	\$194,414.00			\$194,414.00	70.00%	\$83,320.00	\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<u>Electrical</u>	\$38,520.00		\$6,485.00		\$6,485.00	16.84%	\$32,035.00	\$648.50
	<u>Fence and Site Restoration</u>	\$26,634.00						\$26,634.00	\$0.00
	<u>Startup and Testing</u>	\$3,480.00						\$3,480.00	\$0.00
	<u>Change Order</u>								
	Temporary 6" Interconnect	\$12,788.00	\$6,394.00	\$6,394.00		\$6,394.00	100.00%		\$1,278.80
	<u>Payment Shortage-Draw #2</u>	\$137.90							
	<b>GRAND TOTALS</b>	\$595,934.97	\$369,901.00	\$12,879.00	\$0.00	\$376,386.00		\$225,942.97	\$18,836.60

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: PROJECT: APPLICATION NO: 06 REV  
Utilities, Inc. of Florida Crystal Lake / Ravenna Park Interconnect

Distribution to:  
☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR

FROM CONTRACTOR: VIA ARCHITECT:  
ECO-2000, INC. CPII, INC.  
1611 WEST CR 48 1117 E. ROBINSON ST.  
BUSHNELL, FL 33513 ORLANDO, FL 32801  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 04/28/2016

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	595,934.97
2. Net change by Change Orders	\$	12,788.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	608,722.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	423,110.50
5. RETAINAGE:		
a. 10% of Completed Work (Column D + E on G703)	\$	22,869.60
b. % of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	22,869.60
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	400,240.90
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	367,870.70
8. CURRENT PAYMENT DUE	\$	40,330.50
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	208,482.07

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$12,788.00	
Total approved this Month		
TOTALS	\$12,788.00	
NET CHANGES by Change Order	\$12,788.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By: Charlie A. Jones Date: \_\_\_\_\_  
State of: FLORIDA County of: SUMTER  
Subscribed and sworn to before me this day of \_\_\_\_\_  
Notary Public:  
My Commission expires: \_\_\_\_\_

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ \_\_\_\_\_

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.



# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 06 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$1,000.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00			\$12,000.00	50.00%	\$12,000.00	\$1,200.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$12,285.50
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$1,423.80
5	Site Demolition	\$20,376.00	\$10,000.00	\$10,376.00		\$20,376.00	100.00%		\$2,037.60
5	Piping	\$22,188.97		\$12,000.00		\$12,000.00	54.08%	\$10,188.97	\$1,200.00
6	Sub-total	\$213,657.97							\$0.00
	<u>Tank</u>								\$0.00
6	Equipment relocations	\$35,909.00		\$17,954.50		\$17,954.50	50.00%	\$17,954.50	\$1,795.40
7	Tank, aerator & accessories	\$277,734.00	\$194,414.00			\$194,414.00	70.00%	\$83,320.00	\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<u>Electrical</u>	\$38,520.00	\$6,485.00			\$6,485.00	16.84%	\$32,035.00	\$648.50
	<u>Fence and Site Restoration</u>	\$26,634.00						\$26,634.00	\$0.00
	<u>Startup and Testing</u>	\$3,480.00						\$3,480.00	\$0.00
	<u>Change Order</u>								
	Temporary 6" Interconnect	\$12,788.00	\$12,788.00			\$12,788.00	100.00%		\$1,278.80
	<u>Payment Shortage-Draw #2</u>	\$0.00							
	<u>Payment Overage-Draw # 5</u>	\$1,150.00							
	<b>GRAND TOTALS</b>	\$595,934.97	\$382,780.00	\$40,330.50	\$0.00	\$423,110.50		\$185,612.47	\$22,869.60

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF

2

PAGES

TO OWNER: PROJECT: APPLICATION NO: 07 REV  
Utilities, Inc. of Florida Crystal Lake / Ravenna Park Interconnect

Distribution to:  
☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR  
☐  
☐

FROM CONTRACTOR: VIA ARCHITECT:  
ECO-2000, INC. CPII, INC.  
1611 WEST CR 48 1117 E. ROBINSON ST.  
BUSHNELL, FL 33513 ORLANDO, FL 32801  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 05/31/2016

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	595,934.97
2. Net change by Change Orders	\$	12,788.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	608,722.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	437,610.50
5. RETAINAGE:		
a. 10 % of Completed Work	\$	24,319.60
(Column D + E on G703)		
b. % of Stored Material	\$	
(Column F on G703)		
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	24,319.60
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	413,290.90
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	408,201.20
8. CURRENT PAYMENT DUE	\$	14,500.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	195,432.07

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$12,788.00	
Total approved this Month		
TOTALS	\$12,788.00	
NET CHANGES by Change Order	\$12,788.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By: Charlie A. Jones Date:  
State of: FLORIDA County of: SUMTER  
Subscribed and sworn to before me this day of  
Notary Public:  
My Commission expires:

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED: \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By: Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 07 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$1,000.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00			\$12,000.00	50.00%	\$12,000.00	\$1,200.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$12,285.50
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$1,423.80
5	Site Demolition	\$20,376.00	\$20,376.00			\$20,376.00	100.00%		\$2,037.60
5	Piping	\$22,188.97	\$12,000.00			\$12,000.00	54.08%	\$10,188.97	\$1,200.00
6	Sub-total	\$213,657.97							\$0.00
	<u>Tank</u>								\$0.00
6	Equipment relocations	\$35,909.00	\$17,954.50			\$17,954.50	50.00%	\$17,954.50	\$1,795.40
7	Tank, aerator & accessories	\$277,734.00	\$194,414.00			\$194,414.00	70.00%	\$83,320.00	\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<u>Electrical</u>	\$38,520.00	\$6,485.00			\$6,485.00	16.84%	\$32,035.00	\$648.50
	<u>Fence and Site Restoration</u>	\$26,634.00		\$14,500.00		\$14,500.00	54.44%	\$12,134.00	\$1,450.00
	<u>Startup and Testing</u>	\$3,480.00						\$3,480.00	\$0.00
	<u>Change Order</u>								
	Temporary 6" Interconnect	\$12,788.00	\$12,788.00			\$12,788.00	100.00%		\$1,278.80
	Payment Shortage-Draw #2	\$0.00							
	Payment Overage-Draw# 5 & 6	\$5,183.00							
	<b>GRAND TOTALS</b>	\$595,934.97	\$423,110.50	\$14,500.00	\$0.00	\$437,610.50		\$171,112.47	\$24,319.60

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: PROJECT: APPLICATION NO: 08 REV  
Utilities, Inc. of Florida Crystal Lake / Ravenna Park Interconnect

Distribution to:  
☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR

FROM CONTRACTOR: VIA ARCHITECT:  
ECO-2000, INC. CPII, INC.  
1611 WEST CR 48 1117 E. ROBINSON ST.  
BUSHNELL, FL 33513 ORLANDO, FL 32801  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 06/08/2016

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.  
Continuation Sheet. AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	595,934.97
2. Net change by Change Orders	\$	12,788.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	608,722.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	437,610.50
5. RETAINAGE:		
a. 10 % of Completed Work (Column D + E on G703)	\$	55,172.70
b. % of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	5,172.70
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5 Total)	\$	432,437.80
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	422,701.20
8. CURRENT PAYMENT DUE	\$	12,513.90
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	176,285.17

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$12,788.00	
Total approved this Month		
TOTALS	\$12,788.00	
NET CHANGES by Change Order	\$12,788.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Charlie A. Jones  
State of: FLORIDA County of: SUMTER  
Subscribed and sworn to before me this day of  
Notary Public:  
My Commission expires:

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED . . . . . \$ \_\_\_\_\_

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 08 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$0.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00			\$12,000.00	50.00%	\$12,000.00	\$0.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$0.00
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$0.00
5	Site Demolition	\$20,376.00	\$20,376.00			\$20,376.00	100.00%		\$0.00
5	Piping	\$22,188.97	\$12,000.00			\$12,000.00	54.08%	\$10,188.97	\$0.00
6	Sub-total	\$213,657.97							\$0.00
	<u>Tank</u>								\$0.00
6	Equipment relocations	\$35,909.00	\$17,954.50			\$17,954.50	50.00%	\$17,954.50	\$1,795.40
7	Tank, aerator & accessories	\$277,734.00	\$194,414.00			\$194,414.00	70.00%	\$83,320.00	\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<u>Electrical</u>	\$38,520.00	\$6,485.00			\$6,485.00	16.84%	\$32,035.00	\$648.50
									\$0.00
	<u>Fence and Site Restoration</u>	\$26,634.00	\$14,500.00			\$14,500.00	54.44%	\$12,134.00	\$1,450.00
									\$0.00
	<u>Startup and Testing</u>	\$3,480.00						\$3,480.00	\$0.00
									\$0.00
	<u>Change Order</u>								
	Temporary 6" Interconnect	\$12,788.00	\$12,788.00			\$12,788.00	100.00%		\$1,278.80
	Payment Shortage-Draw #2	\$0.00							
	Payment Overage-Draw # 5, 6 & 7	\$6,633.00							
	<b>GRAND TOTALS</b>	\$595,934.97	\$437,610.50	\$0.00	\$0.00	\$437,610.50		\$171,112.47	\$5,172.70

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity



# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

## TO OWNER:

Utilities, Inc. of Florida

## PROJECT:

Crystal Lake / Ravenna Park Interconnect

## APPLICATION NO: 10 REV

## Distribution to:

<input type="checkbox"/>	OWNER
<input type="checkbox"/>	ARCHITECT
<input type="checkbox"/>	CONTRACTOR
<input type="checkbox"/>	
<input type="checkbox"/>	

## FROM CONTRACTOR:

ECO-2000, INC.

1611 WEST CR 48

BUSHNELL, FL 33513

## VIA ARCHITECT:

CPH, INC.

1117 E. ROBINSON ST.

ORLANDO, FL 32801

CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 07/22/2016

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	595,934.97
2. Net change by Change Orders	\$	12,788.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	608,722.97
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	520,930.50
5. RETAINAGE:		
a. 10 % of Completed Work (Column D + E on G703)	\$	7,040.05
b. % of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	7,040.05
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	513,890.45
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	515,757.80
8. CURRENT PAYMENT DUE	\$	32,801.85
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	60,163.32

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$12,788.00	
Total approved this Month		
TOTALS	\$12,788.00	
NET CHANGES by Change Order	\$12,788.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ECO-2000, INC.

By:

Charlie A. Jones

Date:

8/12/2016

State of: FLORIDA

County of: SUMTER

Subscribed and sworn to before me this

2<sup>nd</sup> day of August

Notary Public:

Margaret W. Foote

My Commission expires:

10/30/17



## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED ..... \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By:

Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Supplier 3006123  
PO# 216355  
Recpt# 231157

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 10 REV

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR F)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$0.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00			\$12,000.00	50.00%	\$12,000.00	\$0.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$0.00
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$0.00
5	Site Demolition	\$20,376.00	\$20,376.00			\$20,376.00	100.00%		\$0.00
5	Piping	\$22,188.97	\$12,000.00			\$12,000.00	54.08%	\$10,188.97	\$0.00
6	Sub-total	\$213,657.97							\$0.00
	<u>Tank</u>								\$0.00
6	Equipment relocations	\$35,909.00	\$17,954.50	\$17,954.50		\$35,909.00	100.00%		\$3,522.35
7	Tank, aerator & accessories	\$277,734.00	\$277,734.00			\$277,734.00	100.00%		\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<u>Electrical</u>	\$38,520.00	\$6,485.00	\$18,492.00		\$24,977.00	64.84%	\$13,543.00	\$1,820.00
									\$0.00
	<u>Fence and Site Restoration</u>	\$26,634.00	\$14,500.00			\$14,500.00	54.44%	\$12,134.00	\$1,697.70
									\$0.00
	<u>Startup and Testing</u>	\$3,480.00						\$3,480.00	\$0.00
	<u>Change Order</u>								
	Temporary 6" Interconnect	\$12,788.00	\$12,788.00			\$12,788.00	100.00%		\$0.00
	<u>Payment Shortage-Draw #2</u>							\$1,777.30	
	<b>GRAND TOTALS</b>	\$608,722.97	\$520,930.50	\$36,446.50	\$0.00	\$520,930.50		\$53,123.27	\$7,040.05

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: PROJECT: APPLICATION NO: 11  
Utilities, Inc. of Florida Crystal Lake / Ravenna Park Interconnect

Distribution to:  
☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR  
☐  
☐

FROM CONTRACTOR: VIA ARCHITECT:  
ECO-2000, INC. CPH, INC.  
1611 WEST CR 48 1117 E. ROBINSON ST.  
BUSHNELL, FL 33513 ORLANDO, FL 32801  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

PERIOD TO: 08/30/2016

PROJECT NOS:

CONTRACT DATE:

3006123  
PD# 216355  
Recpt# 233987

## CONTRACTOR'S APPLICATION FOR PAYMENT

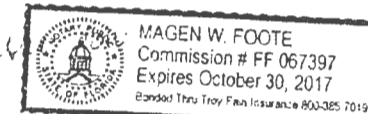
Application is made for payment, as shown below, in connection with the Contract Continuation Sheet, AIA Document G703, is attached

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

1. ORIGINAL CONTRACT SUM \$ 595,934.97  
2. Net change by Change Orders \$ 12,788.00  
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 608,722.97  
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ 608,722.97  
5. RETAINAGE:  
a. 10 % of Completed Work \$ 12,174.65  
(Column D - E on G703)  
b. % of Stored Material \$  
(Column F on G703)  
Total Retainage (Lines 5a + 5b or Total in Column I of G703) \$ 12,174.65  
6. TOTAL EARNED LESS RETAINAGE \$ 596,548.32  
(Line 4 Less Line 5 Total)  
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 548,559.65  
8. CURRENT PAYMENT DUE \$ 47,810.94  
9. BALANCE TO FINISH, INCLUDING RETAINAGE \$ 12,174.65  
(Line 3 less Line 6)

CONTRACTOR: ECO-2000, INC.

By: Charles A. Jones Date: 9/1/16  
State of FLORIDA County of SUMTER  
Subscribed and sworn to before me this 1<sup>st</sup> day of September  
Notary Public MAGEN W. FOOTE  
My Commission expires: 10/30/17



## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT

By: Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$12,788.00	
Total approved this Month		
TOTALS	\$12,788.00	
NET CHANGES by Change Order		

AIA DOCUMENT G702 APPLICATION AND CERTIFICATION FOR PAYMENT 1992 EDITION AIA ©1992

THE AMERICAN INSTITUTE OF ARCHITECTS 1735 NEW YORK AVE. N.W. WASHINGTON, DC 20005-5202

Users may obtain validation of this document by requesting a completed AIA Document D401 - Certification of Document's Authenticity from the Licensee.

# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 11

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D - E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G - C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$0.00
2	Mobilization/Demobilization	\$24,000.00	\$12,000.00	\$12,000.00		\$24,000.00	100.00%		\$1,200.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$0.00
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$0.00
5	Site Demolition	\$20,376.00	\$20,376.00			\$20,376.00	100.00%		\$0.00
5	Piping	\$22,188.97	\$12,000.00	\$10,188.97		\$22,188.97	100.00%		\$1,018.90
6	Sub-total	\$213,657.97							\$0.00
	<u>Tank</u>								\$0.00
6	Equipment relocations	\$35,909.00	\$35,909.00			\$35,909.00	100.00%		\$3,522.35
7	Tank, aerator & accessories	\$277,734.00	\$277,734.00			\$277,734.00	100.00%		\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<u>Electrical</u>	\$38,520.00	\$24,977.00	\$13,543.00		\$38,520.00	100.00%		\$3,174.30
									\$0.00
	<u>Fence and Site Restoration</u>	\$26,634.00	\$14,500.00	\$12,134.00		\$26,634.00	100.00%		\$2,911.10
									\$0.00
	<u>Startup and Testing</u>	\$3,480.00		\$3,480.00		\$3,480.00	100.00%		\$348.00
	<u>Change Order</u>								
10	Temporary 6" Interconnect	\$12,788.00	\$12,788.00			\$12,788.00	100.00%		\$0.00
11	Payment Shortage-Draw #2			\$1,777.30			100.00%		
12									
13	<b>GRAND TOTALS</b>	\$608,722.97	\$557,377.00	\$53,123.27	\$0.00	\$608,722.97		\$0.00	\$12,174.65

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity



# APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: Utilities, Inc. of Florida  
PROJECT: Crystal Lake / Ravenna Park Interconnect

APPLICATION NO: 12-Final

Distribution to:

☐ OWNER  
☐ ARCHITECT  
☐ CONTRACTOR  
☐ 3006123  
☐ POT# 216355  
☐ Receipt# 236590

FROM CONTRACTOR: ECO-2000, INC.  
1611 WEST CR 48  
BUSHNELL, FL 33513  
CONTRACT FOR: CRYSTAL LAKE / RAVENNA PARK IMPROVEMENTS

VIA ARCHITECT: CPH, INC.  
1117 E. ROBINSON ST.  
ORLANDO, FL 32801

PERIOD TO: 09/30/2016

PROJECT NOS:

CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1 ORIGINAL CONTRACT SUM	\$	595,934.97
2 Net change by Change Orders	\$	12,788.00
3 CONTRACT SUM TO DATE (Line 1 + 2)	\$	608,722.97
4 TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	608,722.97
5 RETAINAGE:		
a 10 % of Completed Work (Column D - E on G703)	\$	\$0.00
b % of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	0.00
6 TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	608,722.97
7 LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	596,370.59
8 CURRENT PAYMENT DUE	\$	12,352.38
9 BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	0.00

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$12,788.00	
Total approved this Month		
TOTALS	\$12,788.00	
NET CHANGES by Change Order		

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due

CONTRACTOR: ECO-2000, INC.

By:

Charlie A. Jones

Date:

9/30/2016

State of FLORIDA

County of SUMTER

Subscribed and sworn to before me this 30 day of September 2016

Notary Public: M. W. Foote

My Commission expires: 10/30/17



MAGEN W. FOOTE  
Commission # FF 067397  
Expires October 30, 2017

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)  
ARCHITECT:

By:

Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.



# CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 12-Final

APPLICATION DATE:

PERIOD TO:

ARCHITECT'S PROJECT NO:

A ITEM NO	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G		H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD		TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G - C)		
1	Demo of Crystal Lake WTF	\$10,000.00	\$10,000.00			\$10,000.00	100.00%		\$0.00
2	Mobilization/Demobilization	\$24,000.00	\$24,000.00			\$24,000.00	100.00%		\$0.00
3	6" Interconnect Pipeline	\$122,855.00	\$122,855.00			\$122,855.00	100.00%		\$0.00
4	8" SR 46A Crossing	\$14,238.00	\$14,238.00			\$14,238.00	100.00%		\$0.00
5	Site Demolition	\$20,376.00	\$20,376.00			\$20,376.00	100.00%		\$0.00
5	Piping	\$22,188.97	\$22,188.97			\$22,188.97	100.00%		\$0.00
6	Sub-total	\$213,657.97							\$0.00
	<u>Tank</u>								\$0.00
6	Equipment relocations	\$35,909.00	\$35,909.00			\$35,909.00	100.00%		\$0.00
7	Tank, aerator & accessories	\$277,734.00	\$277,734.00			\$277,734.00	100.00%		\$0.00
8	Installation								\$0.00
9	Sub-total Tank	\$313,643.00							\$0.00
	<u>Electrical</u>								\$0.00
		\$38,520.00	\$38,520.00			\$38,520.00	100.00%		\$0.00
	<u>Fence and Site Restoration</u>								\$0.00
		\$26,634.00	\$26,634.00			\$26,634.00	100.00%		\$0.00
	<u>Startup and Testing</u>								\$0.00
		\$3,480.00	\$3,480.00			\$3,480.00	100.00%		\$0.00
	<u>Change Order</u>								\$0.00
10	Temporary 6" Interconnect	\$12,788.00	\$12,788.00			\$12,788.00	100.00%		\$0.00
11	<u>Payment Shortage-Draw #2</u>	\$1,777.30					100.00%		\$0.00
12									
13	<b>GRAND TOTALS</b>	\$608,722.97	\$608,722.97	\$0.00	\$0.00	\$608,722.97		\$0.00	\$0.00

You may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_)

Docket No. 160101-WS

**EXHIBIT PCF-46**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

# KNAPHEIDE TRUCK EQUIPMENT CENTER

KNAPHEIDE TRUCK EQUIPMENT CO - SOUTHEAST  
510 THORPE RD ORLANDO, FL 32824  
407-857-2040

## I N V O I C E

INVOICE: ORJ17499

Reference:

DATE: 09/20/16

KEY CODE: 02795

MVRS REGISTRATION # MV63874

Customer: 48110

UTILITIES INC OF FLORIDA

ATTN: ACCOUNTS PAYABLE

2335 SANDERS ROAD

NORTHBROOK IL 60062

847-498-6440

Ship To:

KNAPHEIDE TRUCK EQ-ORLANDO

510 THORPE ROAD

ORLANDO FL 32824

Contact: PATRICK FLYNN 3219720359

Ship Via: CPU

P.O. 215548

MAKE: CHEVROLET

MODEL: C4500

YEAR: 2007

VIN: 1GBE4C3257F400589

Start Date: 05/24/16 Req. Date: 09/20/16 FO:

TPC\LPC\FPC:

BODY CRANE SWAP ON KODIAK

\*\*\*\*\* THIS IS FOR A DEPOSIT OF 15001.09 TO ORDER NON STOCK  
\*\*\*\*\* ITEMS CRANE BODY AND VENTURO CRANE  
\*\*\*\*\* PLEASE REMOVE EXISTING CRANE FROM READING BODY  
FOR STORAGE ON A FUTURE JOB AND REMOVE BODY  
LADDER RACK WILL NOT BE REUSED, WELDER WILL BE RELOCATED TO NEW BODY  
\*\*\*\*\* PLEASE SEE DRAWINGS FOR LOCATION OF 3 WORK LIGHTS MOUNTED TO BODY  
EXTERNAL MOUNT ELECTRIC OUTLET, 2 LIGHTS, REEL TO BE FAB TO BOOM OF CRANE,  
NEW INVERTOR, 4 CORNER STROBE TO BE INSTALLED AND 5590CAC MINI BAR TO  
BE INSTALLED ON ROOF OF CAB. INSTALL CTECH DRAWER UNIT 1ST CABINET  
D/SIDE  
\*\*\*\*\* PLEASE INSTALL NEW PAINTED BODY W/ OUT RIGGERS, NEW ET25KX  
CRANE W/ CIRCUIT BREAKER, BOOM REST, AND FAB REINFORCED HITCH NON RATED  
  
\*\*\*\*\* PLEASE PREP & SPRAY KNAPLINER ON ENTIRE CARGO AREA  
PLEASE SEE DIAGRAM. AFTER ADD ETRACK  
\*\*\*\*\* CTECH DRAWER UNIT HAS NOT BEEN INSTALLED, THIS WILL HAPPEN AT  
LATER DATE WHEN INVOICE DOESN'T REFLECT CTECH UNIT IN#17449A  
WILL SHOW THIS

REMIT TO:

KNAPHEIDE TRUCK EQUIPMENT SOUTHEAST  
510 THORPE RD  
ORLANDO FL 32824

TERMS: N30

Subtotal

43,893.60

Sales Tax

0.00

FREIGHT

0.00

TOTAL

43,893.60

**KNAPHEIDE**

INVOICE 1848

# KNAPHEIDE TRUCK EQUIPMENT CENTER

510 THORPE RD  
ORLANDO FL 32824  
407-857-2040

P.O. 215548  
V3014253  
855100.1555  
Payment #1

## I N V O I C E

INVOICE: ORJ17499  
P.O. CHECK  
DATE:

Customer: 48110  
UTILITIES INC OF FLORIDA  
ATTN: ACCOUNTS PAYABLE  
2335 SANDERS ROAD  
NORTHBROOK IL 60062  
847-498-6440  
Contact: PATRICK FLYNN 4079484214

END USER ID:  
2335 SANDERS ROAD  
DESTINATION: KNAPHEIDE TRUCK EQ-ORL  
Ship Via:CPU

MAKE:	MODEL:	YEAR:	VIN:
Start Date: 05/24/16	Req. Date:	FO:	TPC\LPC\FPC:

### BODY CRANE SWAP ON KODIAK

Part Number	Description	Quantity	UOM	EXT. SELL PRICE
VENT ET25KX	25,000 FT LB ELECTRIC CRANE	1.0	EA	15,009.01

\*\*\*\*\* THIS IS FOR A DEPOSIT OF 15001.09 TO ORDER NON STOCK  
\*\*\*\*\* ITEMS CRANE BODY AND VENTURO CRANE  
\*\*\*\*\* THANK YOU FOR YOUR BUSINESS

#### REMIT TO:

KNAPHEIDE TRUCK EQ-SOUTHEAST  
510 THORPE RD  
ORLANDO FL 32824

TERMS:N30

Subtotal	15,009.01
FREIGHT	0.00
Sales Tax	925.54
TOTAL	15,934.55

**KNAPHEIDE**

SALES 1848

STATEMENT OF OPEN INVOICES  
AS OF 10/19/2016

KNAPHEIDE TRUCK EQ CENTER-SE  
510 THORPE RD

ORLANDO, FL 32824

V3014253  
855100.1555  
PO# 215548  
Payment #2

Customer: 48110  
UTILITIES INC OF FLORIDA  
ATTN: ACCOUNTS PAYABLE  
2335 SANDERS ROAD  
NORTHBROOK, IL 60062

Invoice Number	Invoice Date	Invoice Balance
-----	-----	-----
ORJ17499	09/20/2016	27,959.05
-----	-----	-----
Customer Total		27,959.05

Invoice	Amount	Current	30+ Day	60+ Day	Over 90
BALANCE	27959.05	27959.05	0.00	0.00	0.00

Our records indicate the above invoices remain open.  
Please advise when payment will be sent.  
Our phone number is 407-857-2040



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

In re: Application for increase in water and )  
wastewater rates in Charlotte, Highlands, )  
Lake, Lee, Marion, Orange, Pasco, Pinellas, )  
Polk, and Seminole Counties by Utilities, Inc. )  
of Florida. )  
\_\_\_\_\_ )

Docket No. 160101-WS

**EXHIBIT PCF-47**

**OF**

**PATRICK C. FLYNN**

**on behalf of**

**Utilities, Inc. of Florida**

**ADD-CHANGE FORM****New Project or Budget Change?**

Budget Change

2016025

**Requested by:**

Nate Carver

**Date:**

4/13/2016

Project Manager / Area Manager

**Project Name:**

UIF Mapping Services (PH 2)

**Company:**

855

State of FL Cost Center

**Business Unit:**

855100

State of FL Cost Center

**Project Owner:**

Bryan K. Gongre

**BU Type:**

OH

**Project Manager:**

Bryan K. Gongre

**Budget Owner / RVP:**

John Hoy

03

**Start Date:**

4/25/2016

Q2 2016

**Region:**

Florida

04

**Estimated End Date:**

6/30/2017

Q2 2017

**State:**

FL

**Project Type:**

EH&amp;S Compliance

**Will project replace/retire any assets:**

No

**Previously Requested:**

\$60,880

**This Request:**

\$183,441

**Still to be Requested:**

\$0

**Total Project Budget:**

\$244,321

**Description:**

Phase 1: The UIF consolidated rate case filing will take place in June 2016. System maps for each service area within the Florida region must be updated in support of the rate case filing as well as provide current information to the field staff. The maps must depict water and sewer facilities including size of pipe, location of treatment facilities and lift stations, and customers served by class type.

Phase 2: Conversion of the remaining W&S maps into a GIS database mapping system including S/F and M/F subdivisions, commercial developments, and capital improvements. Tasks include:

- 1) Download of information in CAD, GIS, PDF or other format.
- 2) Development of a standard asset database template.
- 3) Data capture of basic system configuration, location and asset information. This includes items such as general location (not GPS verification) and labeling in a standardized format for each of the assets. It does not include things such as invert elevations, valve turns, depth of bury, asset age, etc., which may be added subsequently as data is gathered in the field.
- 4) Review of information and correspondence with individual system points of contact for clarification or additional information.
- 5) Quality Assurance/Quality Control of final CAD information prior to posting to system.
- 6) Development of Record Drawing specification requirements for future development. These will be used to facilitate integration of future projects into the GIS system.

**Timeline Considerations:**

Phase 1 must be completed prior to the 2016 consolidated rate case filing no later than 3Q16.

Phase 2 will need to be completed prior to or in conjunction with the Esri GIS rollout in the Florida Region in order to make use of the functionality of the purchased software and licenses. Items 2 and 6 in the scope of work are required immediately in order to properly capture the upcoming scheduled capital project data as it is installed as well as incorporating ongoing development activity. These standards and specifications can be utilized as the standard to be utilized across all Florida BU's for GIS uniformity.

**Inter-dependant Project**

Project Number:

Project Name

(If applicable)

Have engineering evaluations been performed?

No

Engineering project number

(If applicable)

**Justification and Benefits:**

Phase 1 - System maps for the Florida region will need to be updated with current information related to the distribution and collection facilities within each system including addresses for each customer and color coding by customer class. There are 23 water systems, 17 wastewater systems and 2 reuse systems. The updated information will be filed with the upcoming rate case scheduled for June 2016. This is a two-phase project. Phase 2 will be initiated in coordination with a UI-wide Asset Management Plan.

Phase 2 - Conversion of the system maps into a GIS database mapping system. The development of the Florida Asset Management Plan has identified the need for additional tools to fully optimize the process. The Esri GIS software solution has been selected as the GIS platform to support the Asset Management Program. This tool will provide a means of collecting up to date information of the Utility's linear assets in a network accessible by all levels of the regional organization. This upgrade in technology will improve workflow management, accurately identify and locate linear assets, track and trend data to better forecast the renewal and replacement profiles that will feed into capital planning efforts, guide expenditure decisions and ultimately improve level of service to the customer. Implementation of the Esri GIS software solution will require GIS formatted mapping to be in place in order to utilize the software package. Without the mapping, the GIS system will not have a foundation to run on and therefore not have any field functionality until GIS mapping is in place. The GIS database mapping system will produce a consolidated geodatabase with descriptive attribute data to support the allocation of resources for asset maintenance in daily operations and the continued maintenance and development of the GIS database locally.

**Risk Evaluation**

Phase 1 - Failure to file the updated system maps in the initial rate case filing may result in a deficiency delaying the final rates and at a minimum would result in a Staff Data Request.

Phase 2 - The Florida BU's Asset Management Plan is limited in its functionality without having its linear assets geolocated and incorporated into a GIS platform in order to facilitate an accurate account and precise location of its assets. The GIS mapping offers the means to document the age and condition of those assets and thus develop accurate trending and tracking of data in day to day operations. As the utility infrastructure continues to age it is critical to have a proactive plan in place to accurately forecast renewal and replacement profiles so that capital requirements are known and accounted for before asset failure occurs. Implementation of this type of tool is quickly becoming the industry standard. It provides a necessary tool to plan the timing and extent of renewing or replacing existing linear assets in order to insure delivery of a high level of service to our customers.

**Alternatives Considered:**

Phase 1 - The maps could be updated manually by staff members. Manual updates would include inputting the location and customer class data but would not allow for updating underground facilities data. Manual updates are time intensive and are dependent on availability of human resources that are very limited beyond current operational imperatives.

Phase 2 - Limit the mapping to one service area initially as a pilot project to field test the software and hardware. This alternative would not allow access to the software platform in the other service areas and further delay progress of a proactive asset management program on a region wide level. This is not recommended and would reduce the effectiveness and utilization of the purchased software and hardware.

**Technical Review Summary:**

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## Financial and Regulatory Implications

### Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	244,321				
Project Spend in Current Plan	244,321				
Variance	-	-	-	-	-
CIAC Collected	-				
Net Rate Base	244,321	244,321	244,321	244,321	244,321

(if applicable)

### O&M Cost Impact B/(W)

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### Financial Justification

### Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(0.57)	(0.57)
71,204	71,204

### Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)	-	-	-	-	-
Depreciation Impact on EBIT B/(W)	(6,108)	(24,432)	(24,432)	(24,432)	(24,432)
Under-recovery on capital B/(W)	(17,866)	(16,034)	(14,201)	(12,369)	(10,536)
Net EBIT Impact B/(W)	(23,974)	(40,466)	(38,633)	(36,801)	(34,968)

### Timing and Supporting Information on Rate Recovery

### Regulatory Plan Implications

This project is include in the 2016 consolidated rate case filing as a pro forma project.

### Assumptions



## BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Kimley-Horn - Phase 2	\$183,441	Yes
2			
3			

### Component:

### Amount

Value Bid Elements

183,441.00

Engineering

Direct Purchase of Parts / Materials

Landscaping / Site Restoration

Other Components (specify):

Cap Time

Phase I approved and in process

60,880.00

Total Project Budget

244,321.00

should match Total Budget on General Information

Object Account(s) to which project will be closed:

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

select from dropdown list

[Go to Reference List](#)

### General Comments:

Phase 1 - The threshold to obtain three bids for the Phase 1 work was not exceeded.

Phase 2 - Additional bidders were not sought for the Phase 2 portion of this project. Kimley-Horn's familiarity with our W&S systems, facilities and operating strategies along with the economies of scale that Kimley-Horn can leverage with office locations throughout all of the UI BU's makes Kimley-Horn the preferred contractor to complete this project. The other UI BU's are utilizing Kimley-Horn to accomplish similar tasks with the same scope of work in support of the implementation of GIS. Phase 1 of this project included the conversion of multiple system maps into a GIS database mapping system. Utilizing Kimley-Horn for the remaining maps ensures uniformity of the conversion so that there will be a seamless upload of the maps onto the Esri GIS platform when it is acquired.





## Approvals

### EAM Prime Review

Review Completed by Nate Carver Date: 4/21/2016

Does project align with utility plan and meet technical requirements? Yes ☒ No ☐

#### Comments

This project aligns with the Asset Management Plan and meets UI technical requirements.

### Technical Peer Review

Review Sponsored by Nate Carver Date Held 4/21/2016

Approval to proceed Yes ☒ No ☐

Comments (note if feedback received in review incorporated)

CPRT reviewed and approved to proceed.

### FP&A Review

Review Completed by Christie Kincaid Date: 4/27/2016

Does Project comply with current Utility Rate and Regulatory Plan? Yes ☒ No ☐

#### Comments

### Approvals

Applicable?

Regional Manager: Bryan K. Gongre Date: 4/21/2016 ☒

VP Operations: Patrick C. Flynn Date: 4/21/2016 ☒

President: John P. Hoy Date: 4/29/2016 ☒

### Approval or Re-Direction Comments



February 21, 2016

Bryan Gongre  
Utilities Inc., of Florida  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

Re: UIF Mapping Professional Services Agreement

Dear Bryan:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc., of Florida ("Client") for providing services related to mapping and GIS conversion for all of the Utilities Inc., of Florida systems.

#### **Project Understanding**

It is our understanding that the PSC filing maps needs to be completed by June 2016 with initial drafts due in April 2016 for review. The GIS mapping will need to be completed by the end of 2016. It is our understanding that there are 23 water systems, 17 sewer systems, and 2 reclaimed systems for a total of 42 systems.

#### **Scope of Services**

Kimley-Horn will provide the services specifically set forth below.

##### ***Task 1: Mapping services associated with the Public Service Commission Filing***

Kimley-Horn will provide mapping revisions to the 40 water and sewer service areas as necessary. It is our understanding that all but 9 of the water and sewer service areas are currently mapped and have been used in previous PSC filings. For these 9 systems, the mapping will be developed in GIS format. This provides a time and cost savings for this effort as some of the data needed for the filing already exists in GIS databases, such as house numbers, and selectable lots, etc. This task includes the following items for each system:

- a. Updating/creating service area boundaries
- b. Identifying lots served by type and providing house addresses for each
- c. Updating/importing/creating infrastructure maps to show water and sewer pipelines and facilities
- d. Provide an updated asset inventory of each system
- e. Verify legal descriptions of new service area maps

##### ***Task 2: GIS Conversion Services***

Kimley-Horn will provide GIS Services to convert the remaining 35 system maps into a GIS database mapping system. Utilities Inc. will provide Kimley-Horn with their most recent base mapping.

Services will include:

1. Download of information in CAD, GIS, PDF, or other format. It is anticipated that the downloads will consist of, but not be limited to:
  - a. Record drawings and as-built information provided by UIF.
  - b. Mapping updates obtained by UIF employees.
2. Development of standard asset database in coordination with UIF staff. This will determine what data will be set up for capture for all of the assets in each system.
3. Data capture for basic system configuration/location and asset information. This includes items such as general location (not GPS verification) and labeling standardization for each of the assets. It does not include this such as invert elevations, valve turns, depth of bury, asset age, etc.
4. Review of information and correspondence with individual system points of contact for clarification or additional information.
5. Quality Assurance / Quality Control of final CAD information prior to posting to system.
6. Development of Record Drawing specification requirements for future development. These will be used for easier integration of future projects into the GIS system.

## Additional Services

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates. Additional services we can provide include, but are not limited to, the following:

- GPS location of the assets
- Asset management tasks associated with determining additional details of each of the assets such as:
  - Age
  - Material
  - Type
  - Elevations
  - Other maintenance/operations data

## Information Provided By Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information necessary for the completion of this project that is available.

## Fee and Expenses

Kimley-Horn will perform the services in Tasks 1-2 for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Client.

Task 1	PSC Filing Mapping	\$60,880
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Task 2 GIS Mapping Conversions	\$183,441
Total Lump Sum Fee	\$244,321

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

## Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Utilities Inc., of Florida.

If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services only after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for sixty (60) days after the date of this letter.

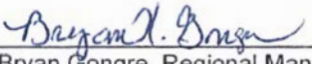
To ensure proper set up of your projects so that we can get started, please complete and return with the signed copy of this Agreement the attached Request for Information. Failure to supply this information could result in delay in starting work on your project.

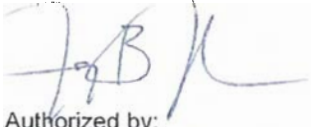
We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Very truly yours,  
KIMLEY-HORN AND ASSOCIATES, INC.

  
By: Steve Romano, PE  
Sr. Project Manager

UTILITIES INC., OF FLORIDA  
Task 1: \$60,880

  
Bryan Gongre, Regional Manager

  
Authorized by:  
Jay R. Jackson  
Sr. V.P.

Task 2: \$183,441

Bryan Gongre, Regional Manager

Attachment – Standard Provisions

KIMLEY-HORN AND ASSOCIATES, INC.

STANDARD PROVISIONS

(1) **Consultant's Scope of Services and Additional Services.** The Consultant's undertaking to perform professional services extends only to the services specifically described in this Agreement. However, if requested by the Client and agreed to by the Consultant, the Consultant will perform Additional Services, which shall be governed by these provisions. Unless otherwise agreed to in writing, the Client shall pay the Consultant for any Additional Services an amount based upon the Consultant's then-current hourly rates plus an amount to cover certain direct expenses including telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Other direct expenses will be billed at 1.15 times cost.

(2) **Client's Responsibilities.** In addition to other responsibilities described herein or imposed by law, the Client shall:

- (a) Designate in writing a person to act as its representative with respect to this Agreement, such person having complete authority to transmit instructions, receive information, and make or interpret the Client's decisions.
- (b) Provide all information and criteria as to the Client's requirements, objectives, and expectations for the project including all numerical criteria that are to be met and all standards of development, design, or construction.
- (c) Provide to the Consultant all previous studies, plans, or other documents pertaining to the project and all new data reasonably necessary in the Consultant's opinion, such as site survey and engineering data, environmental impact assessments or statements, upon all of which the Consultant may rely.
- (d) Arrange for access to the site and other private or public property as required for the Consultant to provide its services.
- (e) Review all documents or oral reports presented by the Consultant and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of the Consultant.
- (f) Furnish approvals and permits from governmental authorities having jurisdiction over the project and approvals and consents from other parties as may be necessary for completion of the Consultant's services.
- (g) Cause to be provided such independent accounting, legal, insurance, cost estimating and overall feasibility services as the Client may require.
- (h) Give prompt written notice to the Consultant whenever the Client becomes aware of any development that affects the scope, timing, or payment of the Consultant's services or any defect or noncompliance in any aspect of the project.
- (i) Bear all costs incidental to the responsibilities of the Client.

(3) **Period of Services.** Unless otherwise stated herein, the Consultant will begin work timely after receipt of a properly executed copy of this Agreement and any required retainer amount. This Agreement is made in anticipation of conditions permitting continuous and orderly progress through completion of the services. Times for performance shall be extended as necessary for delays or suspensions due to circumstances that the Consultant does not control. If such delay or suspension extends for more than six months (cumulatively), Consultant's compensation shall be renegotiated.

(4) **Method of Payment.** Compensation shall be paid to the Consultant in accordance with the following provisions:

- (a) Invoices will be submitted periodically for services performed and expenses incurred. Payment of each invoice will be due within 25 days of receipt. The Client shall also pay any applicable sales tax. All retainers will be held by the Consultant for the duration of the project and applied against the final invoice. Interest will be added to accounts not paid within 25 days at the maximum rate allowed by law. If the Client fails to make any payment due to the Consultant under this or any other agreement within 30 days after the Consultant's transmittal of its invoice, the Consultant may, after giving notice to the Client, suspend services and withhold deliverables until all amounts due are paid in full and may commence proceedings, including filing liens, to secure its right to payment under this Agreement.
- (b) If the Client relies on payment or proceeds from a third party to pay Consultant and Client does not pay Consultant's invoice within 60 days of receipt, Consultant may communicate directly with such third party to secure payment.
- (c) If the Client objects to an invoice, it must advise the Consultant in writing giving its reasons within 14 days of receipt of the invoice or the Client's objections will be waived, and the invoice shall conclusively be deemed due and owing. If the Client objects to only a portion of the invoice, payment for all other portions remains due within 25 days of receipt.
- (d) The Client agrees that the payment to the Consultant is not subject to any contingency or condition. The Consultant may negotiate payment of any check tendered by the Client, even if the words "in full satisfaction" or words intended to have similar effect appear on the check without such negotiation being an accord and satisfaction of any disputed debt and without prejudicing any right of the Consultant to collect additional amounts from the Client.

(5) **Use of Documents.** All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project.



or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The Consultant's electronic files and source code developed in the development of application code remain the property of the Consultant and shall be provided to the Client only if expressly provided for in this Agreement. Any electronic files not containing an electronic seal are provided only for the convenience of the Client, and use of them is at the Client's sole risk. In the case of any defects in the electronic files or any discrepancies between them and the hardcopy of the documents prepared by the Consultant, the hardcopy shall govern. Because data stored in electronic media format can deteriorate or be modified without the Consultant's authorization, the Client has 60 days to perform acceptance tests, after which it shall be deemed to have accepted the data.

(6) **Opinions of Cost.** Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the Client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. Consultant's services required to bring costs within any limitation established by the Client will be paid for as Additional Services.

(7) **Termination.** The obligation to provide further services under this Agreement may be terminated by either party upon seven days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party, or upon thirty days' written notice for the convenience of the terminating party. If any change occurs in the ownership of the Client, the Consultant shall have the right to immediately terminate this Agreement. In the event of any termination, the Consultant shall be paid for all services rendered and expenses incurred to the effective date of termination, and other reasonable expenses incurred by the Consultant as a result of such termination. If the Consultant's compensation is a fixed fee, the amount payable for services will be a proportional amount of the total fee based on the ratio of the amount of the services performed, as reasonably determined by the Consultant, to the total amount of services which were to have been performed.

(8) **Insurance.** The Consultant carries Workers' Compensation insurance, professional liability insurance in the amount of \$2,000,000 per claim, and general liability insurance. If the Client directs the Consultant to obtain increased insurance coverage, the Consultant will take out such additional insurance, if obtainable, at the Client's expense.

(9) **Standard of Care.** The standard of care applicable to Consultant's services will be the degree of care and skill ordinarily exercised by consultants performing the same or similar services in the same locality at the time the services are provided. No warranty, express or implied, is made or intended by the Consultant's undertaking herein or its performance of services, and it is agreed that the Consultant is not a fiduciary with respect to the Client.

(10) **LIMITATION OF LIABILITY.** In recognition of the relative risks and benefits of the Project to the Client and the Consultant, the risks have been allocated such that the Client agrees, to the fullest extent of the law, and notwithstanding any other provisions of this Agreement or the existence of applicable insurance coverage, that the total liability, in the aggregate, of the Consultant and the Consultant's officers, directors, employees, agents, and subconsultants to the Client or to anyone claiming by, through or under the Client, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the services under this Agreement from any cause or causes, including but not limited to, the negligence, professional errors or omissions, strict liability or breach of contract or any warranty, express or implied, of the Consultant or the Consultant's officers, directors, employees, agents, and subconsultants, shall not exceed twice the total compensation received by the Consultant under this Agreement or \$50,000, whichever is greater. Higher limits of liability may be negotiated for additional fee. Under no circumstances shall the Consultant be liable for extra costs or other consequences due to changed conditions, or for costs related to the failure of contractors to perform work in accordance with the plans and specifications. This Section 10 is intended solely to limit the remedies available to the Client or those claiming by or through the Client, and nothing in this Section 10 shall require the Client to indemnify the Consultant.

(11) **Mutual Waiver of Consequential Damages.** In no event shall either party be liable to the other for any consequential, incidental, punitive, or indirect damages including but not limited to loss of income or loss of profits.

(12) **Certifications.** The Consultant shall not be required to execute certifications or third-party reliance letters that are inaccurate, that relate to facts of which the Consultant does not have actual knowledge, or that would cause the Consultant to violate applicable rules of professional responsibility.

(13) **Dispute Resolution.** All claims by the Client arising out of this Agreement or its breach shall be submitted first to mediation in accordance with the Construction Industry Mediation Procedures of the American Arbitration Association as a condition precedent to litigation.

(14) **Hazardous Substances and Conditions.** In no event shall Consultant be a custodian, transporter, handler, arranger, contractor, or remediator with respect to hazardous substances and conditions. Consultant's services will be limited to professional analysis, recommendations, and reporting, including, when agreed to, plans and specifications for isolation, removal, or remediation. The Consultant shall notify the Client of hazardous substances or conditions not contemplated in the scope of services of which the Consultant actually becomes aware. Upon such notice by the Consultant, the Consultant may stop affected portions of its services until the hazardous substance or condition is eliminated.

(15) **Construction Phase Services.**

(a) If the Consultant's services include the preparation of documents to be used for construction and the Consultant is not retained to make periodic site visits, the Client assumes all responsibility for interpretation of the documents and for construction observation, and the Client waives any claims against the Consultant in any way connected thereto.

(b) If the Consultant provides construction phase services, the Consultant shall have no responsibility for any contractor's means, methods, techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall Consultant have any authority or responsibility to stop or direct the work of any contractor. The Consultant's visits will be for the purpose of endeavoring to provide the Client a greater degree of confidence that the completed work of its contractors will generally conform to the construction documents prepared by the Consultant. Consultant neither guarantees the performance of contractors, nor assumes responsibility for any contractor's failure to perform its work in accordance with the contract documents.

(c) The Consultant is not responsible for any duties assigned to the design professional in the construction contract that are not expressly provided for in this Agreement. The Client agrees that each contract with any contractor shall state that the contractor shall be solely responsible for job site safety and for its means and methods; that the contractor shall indemnify the Client and the Consultant for all claims and liability arising out of job site accidents; and that the Client and the Consultant shall be made additional insureds under the contractor's general liability insurance policy.

(16) **No Third-Party Beneficiaries; Assignment and Subcontracting.** This Agreement gives no rights or benefits to anyone other than the Client and the Consultant, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole benefit of the Client and the Consultant. The Client shall not assign or transfer any rights under or interest in this Agreement, or any claim arising out of the performance of services by Consultant, without the written consent of the Consultant. The Consultant reserves the right to augment its staff with subconsultants as it deems appropriate due to project logistics, schedules, or market conditions. If the Consultant exercises this right, the Consultant will maintain the agreed-upon billing rates for services identified in the contract, regardless of whether the services are provided by in-house employees, contract employees, or independent subconsultants.

(17) **Confidentiality.** The Client consents to the use and dissemination by the Consultant of photographs of the project and to the use by the Consultant of facts, data and information obtained by the Consultant in the performance of its services. If, however, any facts, data or information are specifically identified in writing by the Client as confidential, the Consultant shall use reasonable care to maintain the confidentiality of that material.

(18) **Miscellaneous Provisions.** This Agreement is to be governed by the law of the State of Florida. This Agreement contains the entire and fully integrated agreement between the parties and supersedes all prior and contemporaneous negotiations, representations, agreements or understandings, whether written or oral. Except as provided in Section 1, this Agreement can be supplemented or amended only by a written document executed by both parties. Provided, however, that any conflicting or additional terms on any purchase order issued by the Client shall be void and are hereby expressly rejected by the Consultant. Any provision in this Agreement that is unenforceable shall be ineffective to the extent of such unenforceability without invalidating the remaining provisions. The non-enforcement of any provision by either party shall not constitute a waiver of that provision.

**(19) PURSUANT TO FS 558.0035, EMPLOYEES OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE UNDER THIS AGREEMENT.**





February 21, 2016

Bryan Gongre  
Utilities Inc., of Florida  
200 Weathersfield Ave  
Altamonte Springs, FL 32714

Re: UIF Mapping Professional Services Agreement

Dear Bryan:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Utilities Inc., of Florida ("Client") for providing services related to mapping and GIS conversion for all of the Utilities Inc., of Florida systems.

#### **Project Understanding**

It is our understanding that the PSC filing maps needs to be completed by June 2016 with initial drafts due in April 2016 for review. The GIS mapping will need to be completed by the end of 2016. It is our understanding that there are 23 water systems, 17 sewer systems, and 2 reclaimed systems for a total of 42 systems

#### **Scope of Services**

Kimley-Horn will provide the services specifically set forth below.

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Kimley-Horn will provide mapping revisions to the 40 water and sewer service areas as necessary. It is our understanding that all but 9 of the water and sewer service areas are currently mapped and have been used in previous PSC filings. For these 9 systems, the mapping will be developed in GIS format. This provides a time and cost savings for this effort as some of the data needed for the filing already exists in GIS databases, such as house numbers, and selectable lots, etc. This task includes the following items for each system:

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Services will include:

1. Download of information in CAD, GIS, PDF, or other format. It is anticipated that the downloads will consist of, but not be limited to:
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4. Review of information and correspondence with individual system points of contact for clarification or additional information.
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6. Development of Record Drawing specification requirements for future development. These will be used for easier integration of future projects into the GIS system.

#### **Additional Services**

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- GPS location of the assets
- Asset management tasks associated with determining additional details of each of the assets such as:
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  - Elevations
  - Other maintenance/operations data

#### **Information Provided By Client**

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information necessary for the completion of this project that is available.

#### **Fee and Expenses**

Kimley-Horn will perform the services in Tasks 1-2 for the total lump sum fee below. Individual task amounts are informational only. All permitting, application, and similar project fees will be paid directly by the Client.

Task 1 PSC Filing Mapping

\$60,880

Task 2 GIS Mapping Conversions	\$183,441
Total Lump Sum Fee	\$244,321

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

## Closure

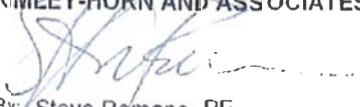
In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Utilities Inc., of Florida.


If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services only after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for sixty (60) days after the date of this letter.

To ensure proper set up of your projects so that we can get started, please complete and return with the signed copy of this Agreement the attached Request for Information. Failure to supply this information could result in delay in starting work on your project

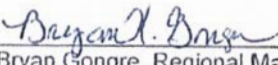
We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Very truly yours,  
KIMLEY-HORN AND ASSOCIATES, INC.

  
By: Steve Romano, PE  
Sr. Project Manager

  
Authorized by:  
Jay B. Jackson  
Sr. V.P.

UTILITIES INC., OF FLORIDA  
Task 1: \$60,880

  
Bryan Gongre, Regional Manager

Task 2: \$183,441

 5/4/2016  
Bryan Gongre, Regional Manager

Attachment – Standard Provisions



KIMLEY-HORN AND ASSOCIATES, INC.

STANDARD PROVISIONS

(1) **Consultant's Scope of Services and Additional Services.** The Consultant's undertaking to perform professional services extends only to the services specifically described in this Agreement. However, if requested by the Client and agreed to by the Consultant, the Consultant will perform Additional Services, which shall be governed by these provisions. Unless otherwise agreed to in writing, the Client shall pay the Consultant for any Additional Services an amount based upon the Consultant's then-current hourly rates plus an amount to cover certain direct expenses including telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Other direct expenses will be billed at 1.15 times cost.

(2) **Client's Responsibilities.** In addition to other responsibilities described herein or imposed by law, the Client shall:

- (a) Designate in writing a person to act as its representative with respect to this Agreement, such person having complete authority to transmit instructions, receive information, and make or interpret the Client's decisions.
- (b) Provide all information and criteria as to the Client's requirements, objectives, and expectations for the project including all numerical criteria that are to be met and all standards of development, design, or construction.
- (c) Provide to the Consultant all previous studies, plans, or other documents pertaining to the project and all new data reasonably necessary in the Consultant's opinion, such as site survey and engineering data, environmental impact assessments or statements, upon all of which the Consultant may rely.
- (d) Arrange for access to the site and other private or public property as required for the Consultant to provide its services.
- (e) Review all documents or oral reports presented by the Consultant and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of the Consultant.
- (f) Furnish approvals and permits from governmental authorities having jurisdiction over the project and approvals and consents from other parties as may be necessary for completion of the Consultant's services.
- (g) Cause to be provided such independent accounting, legal, insurance, cost estimating and overall feasibility services as the Client may require.
- (h) Give prompt written notice to the Consultant whenever the Client becomes aware of any development that affects the scope, timing, or payment of the Consultant's services or any defect or noncompliance in any aspect of the project.
- (i) Bear all costs incidental to the responsibilities of the Client.

(3) **Period of Services.** Unless otherwise stated herein, the Consultant will begin work timely after receipt of a properly executed copy of this Agreement and any required retainer amount. This Agreement is made in anticipation of conditions permitting continuous and orderly progress through completion of the services. Times for performance shall be extended as necessary for delays or suspensions due to circumstances that the Consultant does not control. If such delay or suspension extends for more than six months (cumulatively), Consultant's compensation shall be renegotiated.

(4) **Method of Payment.** Compensation shall be paid to the Consultant in accordance with the following provisions:

- (a) Invoices will be submitted periodically for services performed and expenses incurred. Payment of each invoice will be due within 25 days of receipt. The Client shall also pay any applicable sales tax. All retainers will be held by the Consultant for the duration of the project and applied against the final invoice. Interest will be added to accounts not paid within 25 days at the maximum rate allowed by law. If the Client fails to make any payment due to the Consultant under this or any other agreement within 30 days after the Consultant's transmittal of its invoice, the Consultant may, after giving notice to the Client, suspend services and withhold deliverables until all amounts due are paid in full and may commence proceedings, including filing liens, to secure its right to payment under this Agreement.
- (b) If the Client relies on payment or proceeds from a third party to pay Consultant and Client does not pay Consultant's invoice within 60 days of receipt, Consultant may communicate directly with such third party to secure payment.
- (c) If the Client objects to an invoice, it must advise the Consultant in writing giving its reasons within 14 days of receipt of the invoice or the Client's objections will be waived, and the invoice shall conclusively be deemed due and owing. If the Client objects to only a portion of the invoice, payment for all other portions remains due within 25 days of receipt.
- (d) The Client agrees that the payment to the Consultant is not subject to any contingency or condition. The Consultant may negotiate payment of any check tendered by the Client, even if the words "in full satisfaction" or words intended to have similar effect appear on the check without such negotiation being an accord and satisfaction of any disputed debt and without prejudicing any right of the Consultant to collect additional amounts from the Client.

(5) **Use of Documents.** All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project

or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The Consultant's electronic files and source code developed in the development of application code remain the property of the Consultant and shall be provided to the Client only if expressly provided for in this Agreement. Any electronic files not containing an electronic seal are provided only for the convenience of the Client, and use of them is at the Client's sole risk. In the case of any defects in the electronic files or any discrepancies between them and the hardcopy of the documents prepared by the Consultant, the hardcopy shall govern. Because data stored in electronic media format can deteriorate or be modified without the Consultant's authorization, the Client has 60 days to perform acceptance tests, after which it shall be deemed to have accepted the data.

(6) **Opinions of Cost.** Because the Consultant does not control the cost of labor, materials, equipment or services furnished by others, methods of determining prices, or competitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of construction and materials, shall be made on the basis of its experience and represent its judgment as an experienced and qualified professional, familiar with the industry. The Consultant cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the Client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator. Consultant's services required to bring costs within any limitation established by the Client will be paid for as Additional Services.

(7) **Termination.** The obligation to provide further services under this Agreement may be terminated by either party upon seven days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party, or upon thirty days' written notice for the convenience of the terminating party. If any change occurs in the ownership of the Client, the Consultant shall have the right to immediately terminate this Agreement. In the event of any termination, the Consultant shall be paid for all services rendered and expenses incurred to the effective date of termination, and other reasonable expenses incurred by the Consultant as a result of such termination. If the Consultant's compensation is a fixed fee, the amount payable for services will be a proportional amount of the total fee based on the ratio of the amount of the services performed, as reasonably determined by the Consultant, to the total amount of services which were to have been performed.

(8) **Insurance.** The Consultant carries Workers' Compensation insurance, professional liability insurance in the amount of \$2,000,000 per claim, and general liability insurance. If the Client directs the Consultant to obtain increased insurance coverage, the Consultant will take out such additional insurance, if obtainable, at the Client's expense.

(9) **Standard of Care.** The standard of care applicable to Consultant's services will be the degree of care and skill ordinarily exercised by consultants performing the same or similar services in the same locality at the time the services are provided. No warranty, express or implied, is made or intended by the Consultant's undertaking herein or its performance of services, and it is agreed that the Consultant is not a fiduciary with respect to the Client.

(10) **LIMITATION OF LIABILITY.** In recognition of the relative risks and benefits of the Project to the Client and the Consultant, the risks have been allocated such that the Client agrees, to the fullest extent of the law, and notwithstanding any other provisions of this Agreement or the existence of applicable insurance coverage, that the total liability, in the aggregate, of the Consultant and the Consultant's officers, directors, employees, agents, and subconsultants to the Client or to anyone claiming by, through or under the Client, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the services under this Agreement from any cause or causes, including but not limited to, the negligence, professional errors or omissions, strict liability or breach of contract or any warranty, express or implied, of the Consultant or the Consultant's officers, directors, employees, agents, and subconsultants, shall not exceed twice the total compensation received by the Consultant under this Agreement or \$50,000, whichever is greater. Higher limits of liability may be negotiated for additional fee. Under no circumstances shall the Consultant be liable for extra costs or other consequences due to changed conditions, or for costs related to the failure of contractors to perform work in accordance with the plans and specifications. This Section 10 is intended solely to limit the remedies available to the Client or those claiming by or through the Client, and nothing in this Section 10 shall require the Client to indemnify the Consultant.

(11) **Mutual Waiver of Consequential Damages.** In no event shall either party be liable to the other for any consequential, incidental, punitive, or indirect damages including but not limited to loss of income or loss of profits.

(12) **Certifications.** The Consultant shall not be required to execute certifications or third-party reliance letters that are inaccurate, that relate to facts of which the Consultant does not have actual knowledge, or that would cause the Consultant to violate applicable rules of professional responsibility.



(13) **Dispute Resolution.** All claims by the Client arising out of this Agreement or its breach shall be submitted first to mediation in accordance with the Construction Industry Mediation Procedures of the American Arbitration Association as a condition precedent to litigation.

(14) **Hazardous Substances and Conditions.** In no event shall Consultant be a custodian, transporter, handler, arranger, contractor, or remediator with respect to hazardous substances and conditions. Consultant's services will be limited to professional analysis, recommendations, and reporting, including, when agreed to, plans and specifications for isolation, removal, or remediation. The Consultant shall notify the Client of hazardous substances or conditions not contemplated in the scope of services of which the Consultant actually becomes aware. Upon such notice by the Consultant, the Consultant may stop affected portions of its services until the hazardous substance or condition is eliminated.

(15) **Construction Phase Services.**

(a) If the Consultant's services include the preparation of documents to be used for construction and the Consultant is not retained to make periodic site visits, the Client assumes all responsibility for interpretation of the documents and for construction observation, and the Client waives any claims against the Consultant in any way connected thereto.

(b) If the Consultant provides construction phase services, the Consultant shall have no responsibility for any contractor's means, methods, techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall Consultant have any authority or responsibility to stop or direct the work of any contractor. The Consultant's visits will be for the purpose of endeavoring to provide the Client a greater degree of confidence that the completed work of its contractors will generally conform to the construction documents prepared by the Consultant. Consultant neither guarantees the performance of contractors, nor assumes responsibility for any contractor's failure to perform its work in accordance with the contract documents.

(c) The Consultant is not responsible for any duties assigned to the design professional in the construction contract that are not expressly provided for in this Agreement. The Client agrees that each contract with any contractor shall state that the contractor shall be solely responsible for job site safety and for its means and methods; that the contractor shall indemnify the Client and the Consultant for all claims and liability arising out of job site accidents; and that the Client and the Consultant shall be made additional insureds under the contractor's general liability insurance policy.

(16) **No Third-Party Beneficiaries; Assignment and Subcontracting.** This Agreement gives no rights or benefits to anyone other than the Client and the Consultant, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole benefit of the Client and the Consultant. The Client shall not assign or transfer any rights under or interest in this Agreement, or any claim arising out of the performance of services by Consultant, without the written consent of the Consultant. The Consultant reserves the right to augment its staff with subconsultants as it deems appropriate due to project logistics, schedules, or market conditions. If the Consultant exercises this right, the Consultant will maintain the agreed-upon billing rates for services identified in the contract, regardless of whether the services are provided by in-house employees, contract employees, or independent subconsultants.

(17) **Confidentiality.** The Client consents to the use and dissemination by the Consultant of photographs of the project and to the use by the Consultant of facts, data and information obtained by the Consultant in the performance of its services. If, however, any facts, data or information are specifically identified in writing by the Client as confidential, the Consultant shall use reasonable care to maintain the confidentiality of that material.

(18) **Miscellaneous Provisions.** This Agreement is to be governed by the law of the State of Florida. This Agreement contains the entire and fully integrated agreement between the parties and supersedes all prior and contemporaneous negotiations, representations, agreements or understandings, whether written or oral. Except as provided in Section 1, this Agreement can be supplemented or amended only by a written document executed by both parties. Provided, however, that any conflicting or additional terms on any purchase order issued by the Client shall be void and are hereby expressly rejected by the Consultant. Any provision in this Agreement that is unenforceable shall be ineffective to the extent of such unenforceability without invalidating the remaining provisions. The non-enforcement of any provision by either party shall not constitute a waiver of that provision.

**(19) PURSUANT TO FS 558.0035, EMPLOYEES OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE UNDER THIS AGREEMENT.**

# Kimley»Horn

Invoice for Professional Services

3008141  
PO# 208249  
Rep# 221315

UTILITIES, INC. OF FLORIDA ~~AND AFFILIATE~~  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7533758  
Invoice Date: Mar 31, 2016  
Invoice Amount: \$42,616.00  
Project No: 149685003.1  
Project Name: UIF MAPPING SERVICES  
Project Manager: ROMANO, STEVE

Client Reference:

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

For Services Rendered through Mar 31, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - PSC FILING MAPPING	60,880.00	70.00%	42,616.00	0.00	42,616.00
<b>Subtotal</b>	<b>60,880.00</b>	<b>70.00%</b>	<b>42,616.00</b>	<b>0.00</b>	<b>42,616.00</b>
<b>Total LUMP SUM</b>					<b>42,616.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
GIS CONVERSIONS AND PSC MAPPING UPDATES

**Total Invoice: \$42,616.00**

3008141  
PD# 208249  
Rec# 224177

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 7781057  
Invoice Date: Apr 30, 2016  
Invoice Amount: \$12,176.00  
Project No: 149685003.1  
Project Name: UIF MAPPING SERVICES  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Apr 30, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - PSC FILING MAPPING	60,880.00	90.00%	54,792.00	42,616.00	12,176.00
TASK 2 - GIS MAPPING CONVERSIONS	183,441.00	0.00%	0.00	0.00	0.00
<b>Subtotal</b>	<b>244,321.00</b>	<b>22.43%</b>	<b>54,792.00</b>	<b>42,616.00</b>	<b>12,176.00</b>
<b>Total LUMP SUM</b>					<b>12,176.00</b>

DESCRIPTION OF SERVICES PERFORMED:  
REVISIONS TO THE FIRST DRAFT OF THE PSC MAPS

**Total Invoice: \$12,176.00**



3008141  
 PO# 208249  
 Recpt# 227089

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
 ATTN: BRYAN GONGRE  
 200 WEATHERSFIELD AVENUE  
 ALTAMONTE SPRINGS, FL 32714

Invoice No: 7930106  
 Invoice Date: May 31, 2016  
 Invoice Amount: \$25,056.92  
 Project No: 149685003.1  
 Project Name: UIF MAPPING SERVICES  
 Project Manager: ROMANO, STEVE

Please send payments to:  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 P.O. BOX 932520  
 ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through May 31, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - PSC FILING MAPPING	60,880.00	95.00%	57,836.00	54,792.00	3,044.00
TASK 2 - GIS MAPPING CONVERSIONS	183,441.00	12.00%	22,012.92	0.00	22,012.92
<b>Subtotal</b>	<b>244,321.00</b>	<b>32.68%</b>	<b>79,848.92</b>	<b>54,792.00</b>	<b>25,056.92</b>
<b>Total LUMP SUM</b>					<b>25,056.92</b>

DESCRIPTION OF SERVICES PERFORMED:  
 NATIONAL GIS DATABASE SETUP

**Total Invoice: \$25,056.92**



Invoice for Professional Services

3008141  
PO# 208249  
Recpt 299131

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8010368  
Invoice Date: Jun 30, 2016  
Invoice Amount: \$36,063.38  
Project No: 149685003.1  
Project Name: UIF MAPPING SERVICES  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Jun 30, 2016

Federal Tax Id: 56-0885615

#### LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - PSC FILING MAPPING	60,880.00	100.00%	60,880.00	57,836.00	3,044.00
TASK 2 - GIS MAPPING CONVERSIONS	183,441.00	30.00%	55,032.30	22,012.92	33,019.38
<b>Subtotal</b>	<b>244,321.00</b>	<b>47.44%</b>	<b>115,912.30</b>	<b>79,848.92</b>	<b>36,063.38</b>
<b>Total LUMP SUM</b>					<b>36,063.38</b>

DESCRIPTION OF SERVICES PERFORMED:  
STANDARD DATABASE DEVELOPMENT AND COMPLETION OF PSC FILING MAPS

**Total Invoice: \$36,063.38**

3008141  
PO# 208249  
Rec'd 231562

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8152616  
Invoice Date: Jul 31, 2016  
Invoice Amount: \$9,172.05  
Project No: 149685003.1  
Project Name: UIF MAPPING SERVICES  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Jul 31, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - PSC FILING MAPPING	60,880.00	100.00%	60,880.00	60,880.00	0.00
TASK 2 - GIS MAPPING CONVERSIONS	183,441.00	35.00%	64,204.35	55,032.30	9,172.05
<b>Subtotal</b>	<b>244,321.00</b>	<b>51.20%</b>	<b>125,084.35</b>	<b>115,912.30</b>	<b>9,172.05</b>
<b>Total LUMP SUM</b>					<b>9,172.05</b>

DESCRIPTION OF SERVICES PERFORMED:  
LABRADOR SYSTEM DATA

**Total Invoice: \$9,172.05**



Invoice for Professional Services

3008141  
PO# 208249  
Recpt. 234410

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8260253  
Invoice Date: Aug 31, 2016  
Invoice Amount: \$18,344.10  
Project No: 149685003.1  
Project Name: UIF MAPPING SERVICES  
Project Manager: ROMANO, STEVE

Please send payments to:  
KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Aug 31, 2016

Federal Tax Id: 56-0885615

#### LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - PSC FILING MAPPING	60,880.00	100.00%	60,880.00	60,880.00	0.00
TASK 2 - GIS MAPPING CONVERSIONS	183,441.00	45.00%	82,548.45	64,204.35	18,344.10
<b>Subtotal</b>	<b>244,321.00</b>	<b>58.70%</b>	<b>143,428.45</b>	<b>125,084.35</b>	<b>18,344.10</b>
<b>Total LUMP SUM</b>					<b>18,344.10</b>

DESCRIPTION OF SERVICES PERFORMED:  
DATABASE DEVELOPMENT FOR UIF SYSTEMS

**Total Invoice: \$18,344.10**

3008141  
PO# 208249  
Ref# 237923

UTILITIES, INC. OF FLORIDA AND AFFILIATE  
ATTN: BRYAN GONGRE  
200 WEATHERSFIELD AVENUE  
ALTAMONTE SPRINGS, FL 32714

Invoice No: 8411741  
Invoice Date: Sep 30, 2016  
Invoice Amount: \$9,172.05  
Project No: 149685003.1  
Project Name: UIF MAPPING SERVICES  
Project Manager: ROMANO, STEVE

Please send payments to:

KIMLEY-HORN AND ASSOCIATES, INC.  
P.O. BOX 932520  
ATLANTA, GA 31193-2520

Client Reference:

For Services Rendered through Sep 30, 2016

Federal Tax Id: 56-0885615

## LUMP SUM

Description	Contract Value	% Complete	Amount Earned to Date	Previous Amount Billed	Current Amount Due
TASK 1 - PSC FILING MAPPING	60,880.00	100.00%	60,880.00	60,880.00	0.00
TASK 2 - GIS MAPPING CONVERSIONS	183,441.00	50.00%	91,720.50	82,548.45	9,172.05
<b>Subtotal</b>	<b>244,321.00</b>	<b>62.46%</b>	<b>152,600.50</b>	<b>143,428.45</b>	<b>9,172.05</b>
<b>Total LUMP SUM</b>					<b>9,172.05</b>

DESCRIPTION OF SERVICES PERFORMED:  
LUSI GIS

**Total Invoice: \$9,172.05**