

State of Florida



ORIGINAL

Public Service Commission

-M-E-M-O-R-A-N-D-U-M-

DATE: October 28, 2003
TO: Division of the Commission Clerk and Administrative Services
FROM: Division of Economic Regulation (Fletcher) *BS*
RE: Docket No. 020408-SU - Application for Rate Increase in Seminole County by Alafaya Utilities, Inc.

Please file the attached letter from David L. Orr, dated October 23, 2003, in the docket file for the above-referenced docket.

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 COMMISSION
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ALAFAYA UTILITIES, INC.

AN AFFILIATE OF UTILITIES, INC
200 WEATHERSFIELD AVENUE
ALTAMONTE SPRINGS, FLORIDA 32714

CORPORATE OFFICES:
2335 Sanders Road
Northbrook, Illinois 60062
Telephone: 847-498-6440

Telephone: 407-869-1919
Florida: 800-272-1919
Fax: 407-869-6961
florida@utilitiesinc-usa.com

October 23, 2003

Mr. Bart Fletcher
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32999-0850

RE: Docket Number 020408
Additional Capital Planning Items
Supplemental Information

Dear Mr. Fletcher:

Based upon your request for additional information, please consider the following in supplement to, and amendment of the information provided by our Corporate Office in a letter dated October 8, 2003.

Item No.:	Work Order Number (Ref #)	Project	Comments
1	067-0647-116-02-03	Dewater, Strip Sediment from Pond	Please see October 8 Information.
2	067-0647-116-02-04	Fill & Grade low area Ponds 9 & 10	Please see October 8 Information.
3	067-0647-116-02-05	FDEP Permit Application Renewal	In addition to the information provided October 8, please see Attachment "A" for the signed proposal. Not all tasks were approved, please see the Work Order Description Memorandum for the cost breakdown.
4	067-0647-116-02-06	Upgrade of standby generator fuel supply lines	Please see October 8 Information.
5	067-0647-116-03-01	Alafaya WWTF headworks engineering evaluation	In addition to the information provided October 8, please see Attachment "B". The Preliminary Investigation portion of the scope of services is the project referenced within this work order.
6	067-0647-116-03-02	20" Reuse Main from WWTF to West Side of Lockwood	In addition to the information provided October 8, please see Attachment "C". Also, please refer to the e-mail dated October 13, 2003 in reference to staff's questions with regard to this project.
7	067-0647-116-03-03	Generator Transfer Switch Replacement	The information provided for this project in the October 8 letter does not include the amended cost estimate for this project. Please see Attachment "D" for the revised project cost of \$31,007.

October 23, 2003
 Mr. Bart Fletcher
 Additional Capital Planning Items
 Supplemental Information

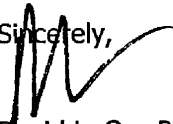
Item No.:	Work Order Number (Ref #)	Project	Comments
8	067-0647-116-03-05	Surge Pump replacement/rehabilitation	In addition to the information provided October 8, please see Attachment "E" for the estimated cost per pump. Total project cost reflects the rehabilitation of all three surge tank pumps.
9	067-0647-116-03-06	Collection manhole inspection and repair	In addition to the information provided October 8, please see Attachment "F". This is the first of three phases of the I/I investigation as requested by FDEP during the permit renewal process.
9a	Not Assigned	Sanitary System Smoke Testing	The second phase of the I/I investigation will consist of the smoke testing (See Attached "G"). This phase of the project was not included in the information provided to the Commission in the October 8 submittal and is therefore in addition to the capital dollars previously submitted. A third phase may consist of Televising the collection system, if required and is currently not considered on the list of projects submitted to the Commission and does not have an estimated cost to date.
10	Not Assigned	Design and Permitting of Facility Head Works	In addition to the information provided October 8, please see Attachment "B".
11	Not Assigned	Perc Pond Site – Golf Course Disposal	This project is in anticipation of the capital expenditure required to install/rehabilitate the golf course disposal areas identified by the PSC as potential disposal sites.
12	Not Assigned	I/I Study Construction Remedies	This project is thoroughly dependent upon the result of the Phased I/I Investigation. The first phase consists of the Collection Manhole Inspection and Repair as outlined in Attached "F".
13	Not Assigned	Design/Permitting of Additional Effluent Disposal	This project was listed in anticipation of extending additional reclaimed water transmission systems within the Live Oak Subdivision as anticipated during our meeting with FDEP, SJRWMD, the PSC, and City of Oviedo. Although not final in scope the project consists of the engineering required for the interconnect to the City of Oviedo and other additional effluent disposal engineering analysis and option evaluation.
14	Not Assigned	Construction of Facility Head Works	See Attachment "B" which includes the Engineer's preliminary opinion of probable cost estimated at \$470,000 without considering bypassing costs, etc. This is the construction cost estimate for the project outlined in Item 10 in this list.

October 23, 2003
 Mr. Bart Fletcher
 Additional Capital Planning Items
 Supplemental Information

Item No.:	Work Order Number (Ref #)	Project	Comments
15	Not Assigned	Design/Permitting of Additional Reclaimed Water Storage	This project consists of the next phase of the on-site expansion of the reclaimed water system including the design and construction of an additional reclaimed water storage tank.
16	Not Assigned	Design and Permitting of the Little Creek Reclaimed Water Main	This project consists of the estimated engineering costs associated with the Design and Permitting of a reclaimed water transmission main from the existing Lockwood Blvd crossing south along Lockwood Blvd. to the Little Creek subdivision.
17	Not Assigned	Expansion of the Existing Reclaimed Water Filter Capacity	This project consists of the installation of additional filtration disks and appurtenances within the existing Aquadisc filter to expand the filtration capacity to 1.5 MGD. Flows are currently above the 1.0 MGD that the existing filter is designed.
18	Not Assigned	Installation of Air Scrubber on Master Lift Station	It is estimated that the odors currently under investigation by us, and of concern to FDEP may be coming from one or both Lift stations located on the plant site. We are currently evaluating data and this project is in anticipation of our investigation findings.
19	Not Assigned	Reclaimed Water Storage Tank Catwalk Installation	We are currently experiencing difficulty maintaining the existing reclaimed water storage tank's floating cover. It is anticipated that by constructing a catwalk around and across the perimeter of the existing tank, adequate maintenance activities can occur.
20	Not Assigned	Hydrogeologic Investigation of Percolation Pond Capacity	Estimated engineering expenses to evaluate maximizing the effluent disposal capacity of the percolation ponds based upon FDEP concerns raised during the FDEP permit renewal process.
21	Not Assigned	Two (2) Additional High Service Pumps for Reuse	Correlates to the project described in Item #15. In addition to the storage facilities, the next phase of the reclaimed water expansion will consist of adding high service pumping capacity.
22	Not Assigned	Construction of Reclaimed Water Storage Tank	Estimated cost to construct storage tank which will be engineering and permitted through Item #15.
23	Not Assigned	Replacement of Digester for Alafaya WWTF	In addition to the information provided October 8, please see Attachment "H". The information provided with the October 8 letter was work in progress. The information included in Attachment "H" reflects the total dollar amount for this project as documented in the Engineer's opinion of probable cost included with the scope of services for the project.

October 23, 2003
Mr. Bart Fletcher
Additional Capital Planning Items
Supplemental Information

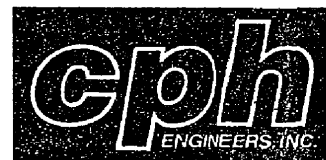
It is anticipated that this additional information is sufficient to answer the Commission's questions regarding the on-going capital improvement efforts within the Alafaya system. If you have any questions or require additional information, please let me know.

Sincerely,


David L. Orr, PE
Regional Manager

cc: Martin Friedman, Esquire (w/enclosures)
Steve Lubertozi (w/enclosures)
Steven Dihel (w/enclosures)
Patrick Flynn (w/o enclosures)

"A"



April 15, 2002

Mr. Gerald Chancellor
Regional Manager
Utilities Inc. of Florida.
200 Weathersfield Ave.
Altamonte Springs, FL 32714

CPH Engineers, Inc.
1117 E. Robinson St., Suite C
Orlando, FL 32801
Phone: (407) 425-0452
Fax: (407) 648-1036
www.cphengineers.com

RE: Alafaya Utilities WWTF Proposal
CPH Project No: U0723

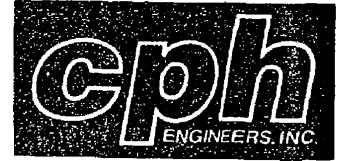
Dear Gerald:

We are pleased to submit this proposal to provide professional engineering services associated with the analysis and design of improvements to the Alafaya Utilities Wastewater Treatment Facility. Based on our conversations, there are several tasks to be completed at the facility: Sludge handling analysis and design, Surge capacity improvements analysis and design, Sodium hypochlorite conversion from chlorine gas, West wastewater plant rehabilitation, and the operations permit renewal. Each of these tasks is further detailed in the scope of services.

Scope of Services

Task 1 – Sludge Handling Analysis and Design

Based on our conversations regarding the project, there is a sludge handling problem at this Facility. Alafaya Utilities currently pays for its liquid sludge to be hauled and treated off site at a residuals management facility. Due to the expense of this method of operation, an alternative solution is desirable. The Engineer shall evaluate modifying the existing system or installing additional units to fully treat the sludge on site. The goal being to eliminate the use of an offsite residuals management facility and process the sludge at the WWTF. This may include dewatering the sludge to reduce the sludge hauling costs. There are numerous methods available for processing sludge and it is important to choose the proper method for Alafaya Utilities. Thickening the sludge is an option to reduce volume and also increase detention time, but may not be the ultimate solution in handling the sludge. Several dewatering methods also exist, including the availability of a 0.5 meter press for smaller facilities. The cost effective analysis shall include a brief letter report with at least two options for the Utility to consider. The design shall include plans and specifications for the process selected by the Utility. A detailed design scope cannot be defined until the processes are evaluated and the correct one selected to meet the goals and objectives of the facility. We estimate the design fee to be in the range of \$30,000 to \$70,000, depending on the complexity and the amount of equipment used to complete the final goal. We will furnish a detailed scope of services and estimate upon selection of the alternative. Permitting will be handled in coordination with Task 5 as a design engineering report. The fee range for this design task includes bidding, shop drawing review, certifications, and construction inspection as required.



Task 2 – Surge Capacity Improvements

The Facility currently has three surge tanks, which occasionally back-up during peak flow events. The Utility is looking to increase the surge capacity of the facility and, possibly, add a headworks structure to the Facility. The headworks would consist of a mechanical bar screen and 'pista' style grit removal equipment. The unit would be concrete with proper access, bypass capabilities, dewatering and discharge capabilities. An evaluation of the tanks and the ability to add the headworks (including hydraulics) will be performed and a letter report provided to the client.

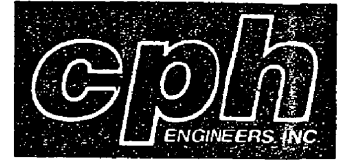
To increase the surge capacity of the Facility a new surge tank may be added, or alternative storage methods may be considered, such as an underground storage well. The Engineer shall provide a letter report detailing the available options for the Utility to consider. The design shall include plans and specifications for the configuration selected by the Utility. Permitting will be handled in coordination with Task 5. The fee range for this design task includes bidding, shop drawing review, certifications, and construction inspection as required.

Task 3 – Sodium Hypochlorite

The Engineer will design a sodium hypochlorite system to convert the current disinfection system from chlorine gas to sodium hypochlorite. The design will include storage tanks, containment, pump skids and any associated piping required for disinfection. The Engineer shall coordinate with Utility staff to design a system that best fits the present and future needs of the Facility. The Engineer shall provide plans and specifications. Permitting will be handled in coordination with Task 5. The fee for this design task includes bidding, shop drawing review, certifications, and construction inspection as required.

Task 4 – West Wastewater Treatment Plant Rehabilitation

The Utility would like to rehabilitate the west WWTP soon since the Facility flows are currently approximately 1 MGD. The treatment capacity of each plant is 1.2 MGD. Therefore, the flows can be completely diverted to the east plant while the rehabilitation of the west plant is underway. We have extensive experience rehabilitating treatment plants. We have rehabilitated the Sanlando plants as well as plants for the City of Casselberry, and the City of Winter Springs, among others. To perform this rehabilitation, we would perform a site inspection to make preliminary determinations on the necessary repairs. We would need to discuss the potential repairs versus replacements costs for individual items and the plant as a whole, to derive the most cost effective solution to meet the Utilities needs. Once the tank is drained and cleaned, a more thorough site inspection will be performed to determine the specific repairs required. One consideration is to determine if the plant divider walls are capable of handling the full hydrostatic force if one section is empty. The Engineer will evaluate the plant and make recommendations to the Utility for approval. During rehabilitation projects, several choices must be made by the Owner concerning both replacement and upgrades. These include such things as handrail options (aluminum, galvanized, or painted steel), grating (fiberglass, aluminum, or galvanized), toe plates, valving replacement, influent troughs (aluminum or painted steel), etc. Structural changes may be required to accommodate rehabilitation changes or



to replace deteriorated members. The specifications need to reflect site conditions. One critical factor is protecting the surrounding area from overspray during the painting process. The Engineer shall provide plans and specifications necessary for this Task.

Task 5 – Operations Permit Renewal

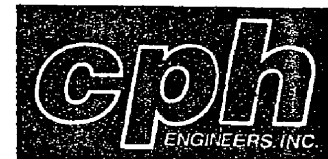
The Alafaya WWTF operating permit will expire in January 2003, and the permit renewal application and supporting documentation should be submitted in July 2002. The Facility has had recent problems properly operating their percolation ponds and the Utility has started gathering more detailed data to support the current permitted capacity of the percolation ponds. This will be the main issue in the permit renewal and may require subcontracting a soils consultant to evaluate the data. The Engineer proposes to submit as much of the information regarding Tasks 1-4 as possible in the July submittal, letting FDEP know that these projects are fully under design and will be finalized in time for a final permit to be issued by January 2003. During this period the Engineer proposes to request that the FDEP allow the Utility to continue collecting the percolation pond data to develop a more accurate historical operating profile of the ponds. This would, in effect, be an extended pond loading test. Based on the results of this operation, the Utility would be able to justify the actual loading rate of the ponds. Also, depending on the results, a soil hydrogeologist may or may not be required as part of the team for the permit package. The fee for completing the FDEP permit application includes all of the standard reports required by FDEP for a permit renewal, such as the Capacity Analysis Report, the Operation and Maintenance Performance Report, and the Monitoring and Operating Protocol.

Subconsultants

Soils, electrical, and surveying services are recommended for the design of this project, but are not included in this scope of services. If such services are desired and/or needed, the services must be added to the tasks in this proposal. The fee range for the design tasks does not include electrical design. Since the design of the sludge handling system is the only portion that may have significant electrical design, depending upon the option selected, we offer the following range as a guide for the electrical fee: \$4,000 to \$10,000. As noted in the proposal, all design, construction, and operation costs will be estimated in the preliminary design reports.

Opinion of Probable Construction Cost

Preliminary opinions of probable construction cost will be provided with each of the letter reports described herein. These will be used as the basis for the cost effective analysis of each alternative. A final opinion of probable construction cost will be prepared based on the final plans and Contract Documents. Since the engineer has no control over the cost of labor, materials, or equipment, or over any construction contractor's method of determining prices, any opinion of probable construction cost that may be provided in the services of this Contract are made on the basis of the engineers experience and qualifications and represent his best judgment as a design professional



familiar with the construction industry, but the engineer cannot and does not guarantee that bids or the construction cost will not vary from opinions of probable construction costs prepared by him.

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 of the following types 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, soils, electrical, or surveying services if required or requested by the Owner. These services will include any easement acquisitions desired by the Owner.

Payment

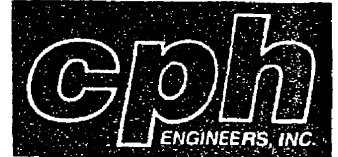
Compensation paid Engineer for services described herein and rendered by principals and employees assigned to the project are computed by multiplying Standard Classification Billing Rates for all classifications of employees directly engaged on the project, times the number of hours worked on the project.

The engineering design and construction administration fee for the services described herein is estimated to be as follows plus direct reimbursement for out-of-pocket expenses, without increase:

- X Task 1: Preliminary Engineering: \$8,500 ✎
Final Design Range: \$30,000 - \$70,000 depending on option chosen.
- X Task 2: Preliminary Engineering: \$7,500
Final Design: \$17,500
- Task 3: \$8,000
- X Task 4: \$16,250
- Task 5: \$11,575
- Total: \$69,325 plus Task 1 final design fee

erm it

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 \$400 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 ENGINEERS, INC.

Stephen N. Romano, P.E.
Project Manager

Terry M. Zaudtke, P.E., DEE
Chief Operating Officer

ACCEPTED BY:
UTILITIES, INC. OF FLORIDA

Regional Manager

Date: 5/31/02

ALAFAYA UTILITIES, INC.

AN AFFILIATE OF UTILITIES, INC
200 WEATHERSFIELD AVENUE
ALTAMONTE SPRINGS, FLORIDA 32714

CORPORATE OFFICES:
2335 Sanders Road
Northbrook, Illinois 60062
Telephone: 847-498-6440

Telephone: 407-869-1919
Florida: 800-272-1919
Fax: 407-869-6961
florida@utilitiesinc-usa.com

WORK ORDER
DESCRIPTION MEMORANDUM

Date: April 30, 2002

From: Gerald L. Chancellor, P. E.

Email 1. Originator to Don Rasmussen (DR)
Routing: 2. (DR) to Susan Fortino (SF) ec: FL A/P & Originator
3. (SF) to NB Accounting Dept. ec: All Recipients
4. NB Accounting ec: All Recipients
5. FL A/P (*print for file with email routing trail*)

Subject: Work Order Request Work Order Amendment

W/O Name:

Reason for Work Order: Required renewal of FDEP permit for operations of the WWTF and effluent disposal facilities. Application for renewal must be submitted by July 1, 2002 to the Orlando FDEP offices.

Details of Project: Preparation of performance report, updated capacity analysis report, review and update of O&M manual, and preparation of FDEP applications and supporting documentation. Evaluation and summary of existing effluent disposal facilities and their performance. Update WWTF Operating and Monitoring Protocol.

Alternatives Considered: 1. Delay or not submit application. This would not be an alternative, as not submitting a timely application for renewal will result in enforcement action being taken by FDEP, if the current permit expires and the new application is not deemed complete by FDEP. Likewise, not submitting an application will result in enforcement actions and potential monetary fines.

Timing of Project: At present, the performance of the RIB site and the pond cells is being recorded on a daily basis, as well as the groundwater mounding levels exhibited by the monitoring wells. In order to support and substantiate the hydraulic capacity of the RIB site, the services of a hydrogeology firm need to be obtained to document same.

WORK ORDER REQUEST

(Accounting Dept. completes items in red)

Company : Alafava Utilities, Inc.

Work Order #

Subdivision & Sub. No. : Alafava (Sub #647)

Construction Dates : From 5/1/02 To 9/30/02

Sewer Water Both

Project Description : FDEP permit application, preparation of required reports, and related supporting documentation. Preparation of RIB site evaluation and analysis report to substantiate hydraulic capacity of site.

Project Justification : To renew the FDEP permit for another 5 years of operations in compliance with State and local regulations. Failure to do so will result in enforcement actions and fines.

Estimated Costs by Component:

<u>Component</u>	<u>Estimated Cost</u>	<u>Component Number</u>	<u>Other Components</u>	<u>Component Number</u>	<u>Estimated Cost</u>
Engineering	\$28,500.00		Hydrogeologist		\$15,000.00
Permits					
Legal Fees					
Electrical					
Equipment					
Land Acquisition					
Plant					
Landscaping					
Total of All Estimated Costs					\$43,500.00
# of Customers					\$7.48

Are all estimated costs from either a bid or quotation ? Yes No

Will existing equipment be replaced ? Yes No

Estimated Capitalized Time : 175 hours

Project Category:

Regulatory Requirement Improve Service Cost Reduction Expand Capacity Safety

Submitted: /s/ Gerald Chancellor (via email)

Date: 4/30/02

Approved: /s/ Donald Rasmussen

Date: 5/06/02

Approved: _____

Date: _____

" B "

November 22, 2002

Mr. David Orr, E.I.
Regional Manager
Utilities, Inc. of Florida
200 Weathersfield Ave.
Altamonte Springs, FL 32714

RE: Alafaya Headworks Improvements Proposal
CPH No.: U0734

Dear David:

We are pleased to submit this proposal to provide professional engineering services associated with the investigation, design, and permitting of improving the Alafaya Wastewater Facility headworks.

Scope of Services

The Facility currently has three surge tanks and two surge pump stations. There is also a bypass line directly to the wastewater plants from the lift stations for when the surge tank levels get too high. Based upon a preliminary investigation, we believe that one of the surge tanks, due to elevation differences, can be taken off-line with minimal impact to the surge capacity. Preliminarily, we recommend removing this tank and installing a larger surge tank to enable the Facility to eliminate the bypass line.

We propose to perform a more thorough investigation of the headworks of the Facility. We will provide the Utility with a letter report detailing our findings and recommendations. At the Utility's direction, we will then proceed to design the improvements to the headworks of the Facility.

Bidding Construction Services

The engineer will provide bidding documents to the Utility and answer questions and issue addenda as required. The engineer will provide construction administration services part-time, which will consist of two visits per month.

Soils work is included in the scope of this project. We will need soil borings done at the tank locations. Surveying is not included in this proposal for the site because we have an existing site survey.

Permitting through FDEP, and Seminole County is included in the scope of this project. A wastewater permit is required from FDEP and a Seminole County site plan permit is required. Permit fees are not included in the scope of this project, and shall be furnished by the Utility.

A final opinion of probable construction cost will be prepared based on the final plans and Contract Documents. Since the engineer has no control over the cost of labor, materials, or equipment, or over any construction contractor's method of determining prices, any opinion of probable construction cost that may be provided in the services of this Contract are made on the

basis of the engineers experience and qualifications and represent his best judgment as a design professional familiar with the construction industry, but the engineer cannot and does not guarantee that bids or the construction cost will not vary from opinions of probable construction costs prepared by him. A preliminary opinion of probable construction costs is attached. *Please refer to Table 1 for the preliminary opinion of probable construction costs. The total, including all options discussed, is estimated to be \$470,000.00.*

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 of the following types 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, soils investigation services if required or requested by the Owner.

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 and shown on Table 2 is estimated to be \$40,500.00, including the listed subconsultant fees, plus direct reimbursement for out-of-pocket expenses, without increase.

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 \$400 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 Engineers, Inc.

Stephen N. Romano, P.E.
Project Manager

Terry M. Zaudtke, P.E., DEE
Chief Operating Officer

**Preliminary Investigation (\$7,500):
ACCEPTED BY:
UTILITIES, INC. OF FLORIDA**

Date: _____

**Design and Permitting (\$33,000):
ACCEPTED BY:
UTILITIES, INC. OF FLORIDA**

Date: _____

June 28, 2002

Mr. Bryan Gongre
Assistant Operations Manager
Alafaya Utilities, Inc.
200 Weathersfield Avenue
Altamonte Springs, FL 32714

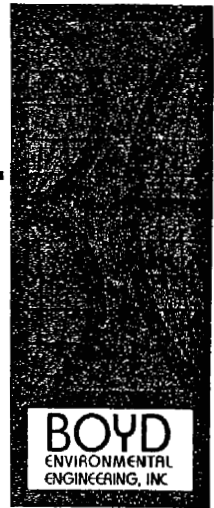
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JUN 28 2002

UTILITIES, INC.

"C"

Re: Engineering Services Proposal
Alafaya Wastewater Treatment Facility
Proposed 20-Inch Reuse Main



Dear Mr. Gongre:

Boyd Environmental Engineering, Inc. ("Engineer") is pleased to present this engineering services proposal to Alafaya Utilities, Inc. ("AUI"). This proposal concerns a proposed 20-inch reuse main that will serve the Alafaya Wastewater Treatment Facility (WWTF) located in Oviedo, Florida.

Proposed Improvements

A new 20-inch reuse main will be installed along the following proposed route. Please note that this proposed route is based on existing utility record drawings provided by AUI and generally follows the route of existing utility piping. The length of the proposed route is approximately 7,000 feet. Furthermore, based on a review of existing aerials, it is suspected that wetlands, submerged lands and associated conservation easements may lie along a portion of the route.

1. Beginning on the WWTF property, proceed north across an existing stormwater retention area owned by the Alafaya Woods Homeowners Association (HOA). Please note that it will be necessary for AUI to obtain the permission of the HOA for installing the new reuse main within this area. However, there may be an existing agreement between the HOA and AUI, since AUI already has existing utilities within this area.
2. From the stormwater retention area, proceed north along existing utility easement(s) that straddle the Alafaya Woods and Twin Rivers developments until the easement(s) turn to the east. Then, proceed east along existing utility easement(s) that straddle the Alafaya Woods, Twin Rivers and Big Oaks developments until reaching the existing Florida Power Corporation (FPC) easement.
3. Proceed east across the existing FPC easement to the proposed connection point with an existing 20-inch reuse main.

Initial Work Performed By AUI

Before beginning this project, the Engineer respectfully requests that AUI complete the following work:

1. Notify existing homeowners along the proposed route that survey work will be commencing.
2. Locate existing AUI utilities along the proposed route via flagging and painting.

Engineer's Scope of Services

Task I – Survey and Wetland Delineation

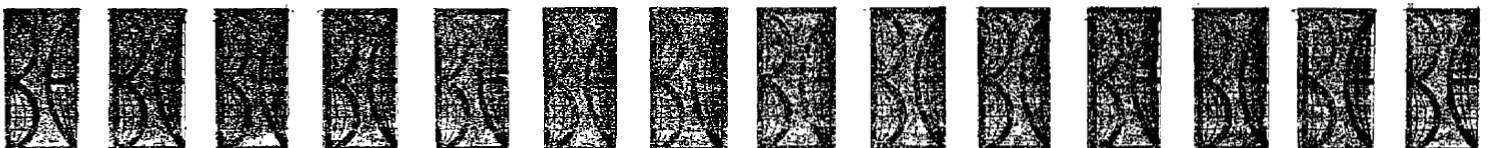
- A. Delineate and flag existing wetlands along the proposed route.
- B. Prepare survey of proposed route that will depict existing topographic and planimetric conditions including fences, trees, homeowner improvements, vegetative features, drainage patterns, wetlands, and utilities (located by AUI).
- C. Locate platted easements, lot and right-of-way lines based on plat math and recovered property corner monuments.

Task II – Preliminary Engineering Design

- A. Perform preliminary engineering design for the proposed 20-inch reuse main.
- B. Prepare preliminary engineering plans and technical specifications.
- C. Submit preliminary plans and specifications to AUI for review and revise the documents as necessary to incorporate AUI comments. These documents will be used for permitting purposes.

Task III – Environmental Permitting

- A. Request an on-site review of delineated wetland boundaries by the Florida Department of Environmental Protection (FDEP). Also, request a binding jurisdictional determination (if appropriate).
- B. Prepare submittal to the St. Johns River Water Management District (SJRWMD) for permission to conduct construction activities in a conservation easement (if a SJRWMD conservation easement exists along the route).
- C. Provide information to FDEP Division of State Lands for a determination regarding the possible need for a Sovereign Submerged Land Use Agreement.



Mr. Bryan Gongre

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- D. If necessary (based upon the aforementioned determination by FDEP), prepare and submit an application to FDEP for a Sovereign Submerged Land Use Agreement.
- E. Prepare and submit an Environmental Resource Permit (ERP) application to FDEP.
- F. Respond to "Requests for Additional Information (RAIs)" from these agencies pertaining to the clarification of submitted application documents.

Task IV – City of Oviedo Permitting

- A. Prepare and submit a Level I permit application to the City of Oviedo for tree removal activity associated with construction of the 20-inch reuse main.
- B. Respond to RAIs from the City pertaining to the clarification of submitted application documents.

Task V – FPC Easement Utilization Permitting

- A. Prepare and submit a permit application to the Florida Power Corporation (FPC) for crossing the existing FPC easement.
- B. Respond to RAIs from FPC pertaining to the clarification of submitted application documents.

Task VI – Final Engineering Design

- A. Based on necessary revisions determined during the permitting process, prepare final engineering plans and technical specifications.
- B. Submit final plans and specifications to AUI for review and revise the documents as necessary to incorporate AUI comments.

Task VII – Bidding

- A. Prepare Contract Documents using standard "front end" documents. Contract documents shall also include final engineering drawings and technical specifications as approved by AUI under Task VI.
- B. Prepare Engineer's opinion of probable construction cost.
- C. Attend one pre-bid conference.
- D. Address questions from bidders.
- E. Open and evaluate bids.
- F. Tabulate bids and make recommendations regarding contractor selection.
- G. Upon completion of the bidding process and contractor selection, prepare Conformed Contract Documents for construction purposes.



Task VIII – Construction Administration

- A. Attend one pre-construction conference.
- B. Review shop drawings submitted by the Contractor.
- C. Perform periodic site inspections during construction of the project. A total of six (6) site inspections are included in Engineer's scope of services.
- D. Review monthly pay requests submitted by the Contractor.
- E. Assist AUI in reviewing contractor change order requests.
- F. Conduct an inspection to determine if the work is substantially complete.
- G. Conduct a final inspection to determine if the work is complete.
- H. Prepare record drawings based on as-built information provided by the Contractor.
- I. Prepare a construction completion certification for submittal to FDEP.

Services Not Included

The following services are not included. These services, if required, shall be provided by AUI as necessary for Engineer to complete the services offered herein:

- 1. Preparation of any documents related to the modification of existing utility easements or the creation of new utility easements.
- 2. Negotiation of any required agreements with landowners along the 20-inch reuse main route.
- 3. Soils testing. (Any required testing shall be performed by AUI's geotechnical consultant.)
- 4. Additional services resulting from changes in local government, FDEP or SJRWMD regulations during the course of the project.
- 5. Requests for Additional Information (RAIs) from regulatory agencies that extend beyond the clarification of submitted information.
- 6. Site contamination assessments, threatened and endangered species surveys and gopher tortoise surveys.
- 7. Resident project inspection.
- 8. Compaction and materials testing.
- 9. Landscape architecture.
- 10. Construction record surveys.
- 11. Water quality sampling and analyses.



- 12. Legal services. At a minimum, such services may be necessary in association with a Sovereign Submerged Land Use Agreement with FDEP and/or in association with obtaining any necessary agreements with landowners along the 20-inch reuse main route.
- 13. Payment of all regulatory fees and publication of public notices.
- 14. Any other services not specifically included under the Scope of Services as described herein.

Engineer's Compensation

Engineer's fixed fee compensation for the performance of the engineering services proposed herein is detailed as follows:

Task I -	Survey and Wetland Delineation	\$ 20,000
Task II -	Preliminary Engineering Design	11,500
Task III -	Environmental Permitting	14,500
Task IV -	City of Oviedo Permitting	3,000
Task V -	FPC Easement Utilization Permitting	3,500
Task VI -	Final Engineering Design	5,000
Task VII -	Bidding	4,500
Task VIII -	Construction Administration	<u>10,200</u>
	Total Fixed Fee	\$ 72,200

The total compensation amount includes Engineer's fees, subconsultant costs and anticipated reimbursable expenses. Engineer shall submit monthly invoices to AUI for services rendered. The invoice amount shall be equal to the percentage of services that have been rendered during the month. Payment is due within 30 days of invoice date. If payment has not been received by Engineer within forty-five (45) days of the invoice date, then Engineer has the right to suspend services until payment is received in full, without incurring any penalty or liability. Although Engineer will endeavor to obtain the necessary regulatory approvals, AUI understands that Engineer cannot guarantee the granting of these approvals. The obtainment of any regulatory approvals is not a condition of compensation to Engineer. AUI also understands that it may be necessary to adjust Engineer's compensation if it is necessary to provide services beyond the specified scope. Any adjustment in Engineer's compensation must be mutually approved by AUI and Engineer.



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Liability Limitation

Engineer shall not be responsible for the acts or omissions of any other entity or person, except Engineer's own employees. In no event shall Engineer be liable for any special, indirect, incidental, or consequential loss or damage.

Limitation of Construction Administration Authority

Engineer shall not have authority or responsibility to supervise, direct, or control Contractor's means, methods; techniques, sequences, or procedures of construction. Engineer shall also not have authority or responsibility for safety precautions or programs incident to Contractor's work or for any failure of Contractor to comply with laws, regulations, rules, ordinances, codes or orders applicable to Contractor furnishing and performing the work. In addition, the Engineer shall not provide the duties normally associated with the Resident Inspector.

Termination of Agreement

AUI may terminate this agreement at any time, provided that AUI gives at least five (5) days written notice of such termination to the Engineer. Upon termination, Engineer shall be entitled to payment for services performed up to the termination date.

Subconsultants

In executing these services, the Engineer intends to use the services of the following subconsultants:

Holt Surveying, Inc. (Registered Land Surveyor)

Yvonne I. Froscher (Environmental Permitting Consultant)

Costs associated with these subconsultants have been incorporated into the Engineer's Compensation as enumerated above. Engineer will coordinate the efforts of these subconsultants to ensure a fully integrated project.

Work Product

AUI shall be provided with copies of all work products. Drawings shall be provided to AUI in reproducible vellum and electronic format (AutoCadd). Specifications shall be provided in both hard copy and electronic format. All other work products shall be provided in hard copy format.

Additional Services

Additional services, if requested by AUI, will be billed on an hourly basis in conformance with the hourly rate schedule attached as Exhibit I.



Proposed Schedule

Engineer's proposed schedule is presented as follows. This schedule is based on AUI commencing the homeowner notification and utility flagging activities by July 15, 2002.

<u>Task</u>	<u>Completion Date</u>
Homeowner Notification & Utility Flagging	August 1, 2002
Survey and Wetland Delineation	October 1, 2002
Preliminary Engineering Design	November 15, 2002
Environmental Permitting	February 15, 2003
City of Oviedo Permitting	February 15, 2003
FPC Easement Utilization Permitting	February 15, 2003
Final Engineering Design	March 15, 2003
Bidding	May 1, 2003
Construction	October 1, 2003

Bryan, we greatly appreciate the opportunity to submit this engineering services proposal. Please do not hesitate to call if you have any questions or require any additional information.

Sincerely,
Boyd Environmental Engineering, Inc.



James C. Boyd, P.E.
President

Proposal Acceptance

Boyd Environmental Engineering, Inc.

By: James C. Boyd

Title: President

Date: 6-28-02

Alafaya Utilities, Inc.

By: _____

Title: _____

Date: _____

If not accepted by AUI within forty-five (45) days of proposal date, this proposal shall become null and void. If accepted, please return an executed copy for our records.



Exhibit I

Boyd Environmental Engineering, Inc.

Schedule of Hourly Rates
(Effective Through December 31, 2003)

<u>Employee Classification</u>	<u>Rate</u>
Professional Engineer	\$90.00
Staff Engineer	\$65.00
Technician	\$45.00
Clerical	\$25.00

The above hourly rates shall remain in effect through December 31, 2003. Any adjustments thereafter shall be mutually agreed between the Client and Engineer.

Reimbursable expenses shall be billed at cost.



Alafaya Utilities, Inc.

20-Inch Reclaimed Water Main Extension
From WWTF Site To Lockwood BoulevardConceptual Budget Cost Opinion

Item No.	Item Description	Unit Quantity	Estimated Quantity	Unit Price (\$)	Estimated Cost (\$)
1	Mobilization/Demobilization	LS	1	30,000	30,000
2	Performance and Payment Bonds	LS	1	15,000	15,000
3	Conformance with General Requirements	LS	1	36,000	36,000
4	Testing and Provision of Record Documents	LS	1	5,000	5,000
5	20" C905 PVC Pipe (Including Restraining Devices, Grassing and Restoration)	LF	7,000	50	350,000
6	20" Butterfly Valve & Box, MJ	EA	4	3,000	12,000
7	Ductile Iron Fittings, MJ, Class 350	TONS	3	10,000	30,000
8	2" Air Release Valve Assembly & Vault	EA	2	5,000	10,000
				Subtotal	488,000
				Add Engineering Costs	37,500
				Add Permitting Costs	14,500
				Add Surveying Costs	20,000
				Total Conceptual Estimate =	560,000

Notes:

1. These costs are conceptual and are subject to change based on future design investigations.
2. Costs may be increased if it is necessary to directional drill a portion of the route and/or if required restoration along existing back lot lines is excessive.

UTILITIES, INC.

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Joni Welzien	Susan Fortino
COMPANY:	DATE:
	10/31/02
FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
407.869.6961	6
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
RE:	YOUR REFERENCE NUMBER:

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

Dear Joni,

Attached is a copy of a work order request for Alafaya Utilities, Inc. Please enter it into the system.

Please call me at 847.498.6440 if you have any questions. Thank you.

2335 SANDERS ROAD
NORTHBROOK, IL 60062
T: 847.498.6440
F: 847.498.6498

- map of mains
- existing, proposed planning

WORK ORDER AMENDMENT

(Accounting Dept. completes items in red)

Company : Alafava Utilities, Inc.

Work Order #

Subdivision & Sub. No. : Alafava (Sub #647)

Construction Dates : From 8/1/02 To 10/1/03

Sewer Water Both

Project Description : Engineering, permitting and construction of a 20" reuse main beginning at the WWTF to the existing 20" reuse main on the West side of Lockwood Blvd.

Project Justification : The project is necessary to facilitate the projected 50% residential reuse service subscription rate within the Sanctuary and Live Oak subdivisions.

Estimated Costs by Component:

<u>Component</u>	<u>Estimated Cost</u>	<u>Component Number</u>	<u>Other Components</u>	<u>Component Number</u>	<u>Estimated Cost</u>
Engineering	\$37,500.00		Surveying		\$20,000.00
Permits	\$14,500.00				
Legal Fees					
Electrical					
Equipment					
Land Acquisition					
Plant	\$488,000.00				
Landscaping					
Total of All Estimated Costs					\$560,000.00
# of Customers	<u>5873</u>	Total Cost per Customer			\$95.35

Are all estimated costs from either a bid or quotation ? Yes No

Will existing equipment be replaced ? Yes No

Estimated Capitalized Time : 100 hours

Project Category:

Regulatory Requirement Improve Service Cost Reduction Expand Capacity Safety

Submitted: /s/ Bryan Gongre (via email)

Date: 7/23/02

Approved: /s/ Don Rasmussen (via email)

Date: 8/29/02

Approved: 

Date: 10/22/02

ALAFAYA UTILITIES, INC.

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

CORPORATE OFFICES:
2335 Sanders Road
Northbrook, Illinois 60062
Telephone: 847-498-6440

Telephone: 407-869-1919
Florida: 800-272-1919
Fax: 407-869-6961
florida@utiliticsinc-usa.com

WORK ORDER
DESCRIPTION MEMORANDUM

Date: July 23, 2002

From: Bryan Congre, Asst. Operations Mgr.

Email Routing: 1. Originator to Don Rasmussen (DR)
2. (DR) to Susan Fortino (SF) ec: FL A/P & Originator
3. (SF) to NB Accounting Dept. ec: All Recipients
4. NB Accounting ec: All Recipients
5. FL A/P (*print for file with email routing trail*)

Subject: Work Order Request Work Order Amendment

W/O Name: Design and Construction of Reuse System

Reason for Work Order: Amendment to original W.O. # 067-0647-116-97-16 to incorporate additional engineering, permitting and construction costs.

Details of Project: The project will consist of the engineering, permitting and construction of a 20" reuse main beginning at the WWTF and connecting to the existing 20" reuse main on the West side of Lockwood Blvd.

Alternatives Considered: N/A

Timing of Project: Due to the length of time necessary to permit the project, the project needs to proceed immediately upon approval.

ALAFAYA UTILITIES, INC.

AN AFFILIATE OF UTILITIES, INC.

200 WEATHERSFIELD AVENUE
ALTAMONTE SPRINGS, FLORIDA 32714CORPORATE OFFICES:
2335 Sanders Road
Northbrook, Illinois 60062
Telephone: 847-498-6440Telephone: 407-869-1919
Florida: 800-272-1919
Fax: 407-869-6961
florida@utilitiesinc-usa.com**MEMORANDUM**

Date: July 23, 2002

To: Donald Rasmussen, V.P.

From: Bryan K. Gongre, A.O.M.

Subject: Alafaya Reuse Work Order Amendment

Please find attached a Work Order Amendment request for the engineering, permitting and construction of a 20" reuse main for Alafaya Utilities, Inc.

Description

The project would consist of the additional costs related to the engineering, permitting and construction of a 20" reuse water main beginning at the Alafaya WWTF and traversing a rear easement from the facility approximately 7,000 LF to the West side of Lockwood Boulevard. The new main would then be connected to an existing 20" reuse main at Lockwood Boulevard.

Justification

Water conservation issues surrounding the availability of reuse, have gained significant importance throughout the region amongst the state and local governmental authorities. This is primarily due to the population growth throughout the state and dwindling groundwater supplies. During the past as well as the present, Alafaya Utilities has provided reuse quality effluent to the Twin Rivers golf course as a means of effluent disposal. The benefits of providing reclaimed water include additional effluent disposal capacity, revenue and a positive public image.

The WWTF has been recently upgraded to provide residential and commercial reuse service to those areas specified in accordance with the agreement between Alafaya Utilities and the City of Oviedo. The utility has installed a 20" transmission main from the East side of Lockwood Boulevard, which travels along a rear easement to CR 419. From this point, transmission mains ranging in size from 6", 12" and 18" travel to the North, West and East covering the service area.

Memorandum: Alafaya Reuse Work Order Amendment

Background

To facilitate the distribution of reclaimed water to the service area, the utility was required to invest in and install, transmission mains, that would connect to existing subdivision infrastructure as well as future developer contributed facilities. The distribution system design is based upon a study performed by an engineering firm using a projected 50% subscription rate at build out. The final design incorporated the use of an existing 10" reuse main that originates at the WWTF and terminates at the golf course holding pond, in conjunction with a proposed parallel 20" reuse main. Currently, the utility is utilizing the 10" reuse main to provide service to the Ekana Green and Waverlee Woods subdivisions. Due to the reuse program's infancy and current subscription rate, the use of this line has permitted adequate service capability. Although this is currently the case, the system as it stands will not provide adequate volumes necessary to facilitate reuse services to other areas as projected.

Facility Investment Summary

- 12/2000 - Installed 12" and 20" reuse transmission mains to serve Ekana Green and Waverlee Woods
W.O. # 067-0647-116-97-16
- 1/2002 - WWTF on site improvements for reuse facilities.
W.O. # 067-0647-116-01-01
- 6/2002 - Currently installing 18" reuse transmission main to Live Oak and Sanctuary subdivisions.
W.O. # 067-0647-116-02-01

Thank you for your attention to this matter. Please let me know if you have any additional questions.

Proposal

THOMPSON ELECTRIC COMPANY

Electrical Contractor • Wiring & Repair
 P.O. Box 1478
 WINTER PARK, FLORIDA 32790
 (407) 365-6666 Fax (407) 365-9358

"11b"
 FEB 05 2003

Attn: Scotty

PROPOSAL SUBMITTED TO Utilities, Inc. of Florida	PHONE Fax 407-869-6961	DATE Feb. 4, 2003
STREET 200 Weathersfield Ave.	JOB NAME Furnish and Install 1200 Amp Transfer	
CITY, STATE and ZIP CODE Altamonte Springs, Fl. 32714	JOB LOCATION Switch at Alafaya WWTP, Oviedo, Fl.	
ARCHITECT	DATE OF PLANS	JOB PHONE

We hereby submit specifications and estimates for:

Labor and materials for the following Electrical work:

1. Furnish 1200 Amp 480V. 3 Pole ONAN, Power Command Transfer Switch.

* See summittal detail for Transfer Switch Options.

Amount of Transfer Switch \$ 11,119.00

2. Furnish labor and materials to install above metioned Transfer Switch as follows:

A. Install new Transfer Switch adjacent to existing Main Switch gear where shelving is now.

B. Install 1200 Amp Normal Power feeder from Main Switch gear into New Transfer Switch.

C. Install 1200 Amp Emergency feeder from existing Generator to new Transfer Switch.

D. Install 1200 Amp load side feeder from existing Main Distribution panel to new Transfer Switch.

E. Coordinate change over from existing Transfer Switch to New Transfer switch.

F. Remove all old Electrical piping, Transfer Switch and Conductors after transition to New Transfer Switch.

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:

G. Perform Start-up and Programing of New Transfer Switch.

Payment to be made as Amount Total for complete job

dollars (\$) 19,035.00
 \$30,154.00

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 the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature

William P. Bahler

William P. Bahler

Note: This proposal may be withdrawn by us if not accepted within _____ days.

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.

Signature _____

Date of Acceptance: _____

Signature _____



Capital Project Details

Florida FL C067 0647 892
 Region State Co# Sub# ID #

Project Name: Generator Transfer Switch Replacement
 Company: Alafaya Utilities, Inc.
 System: Alafaya Utilities, Inc.

Current Status: *Completed
 WO/PO#: 067-0647-116-03-03
 Project Mgr: Scotty Haws

Project Description Electrical Contractor to remove existing 1200 Amp, 480 Volt Transfer Switch, install new 1200 Amp 480 Volt 3 pole Onan Power Command Transfer Switch, Start Up.



Location
 Alafaya Wastewater Treatment Facility

Justification & Benefits

Inspection of Generator Facilities by Generator Maintenance Contractor found that the existing transfer switch has excessive sparking when in use. The unit has reached the end of its service life with parts no longer becoming available for repairs.

Alternatives

1. KEEP EXISTING UNIT IN SERVICE. This would not be a good option due to parts no longer being available for repairs, and the unit becoming less reliable. 2. POSTPONE PROJECT. This would not be a viable option due to the excessive sparking which occurs when the unit is in use. Reliability has been greatly reduced.

Project Dates
 Submitted By: Scotty Haws 01/02/03 Approvals: Reg Director --> Don Rasmussen 01/06/03
 Approved: 01/10/03 Dir of Oper. --> Susan J. Fortino 01/10/03



Timing Issues

Equipment to be ordered upon approval, 3 to 4 week delivery.

Estimated Start & Finish Dates

Start: 02/03/03 In Service: 10/03/03
 Finish: 10/01/03

Original	Changes	Amended By	Reason for Amending	Project Completion Date	Date Amended
Finish: 02/07/2003		David L. Orr	Delivery date of transfer Switch not until mid-March		03/01/2003
04/30/2003					05/08/2003
04/30/2003		Gary Musselwhite	Significant Materials Lead Time		06/27/2003
08/01/2003		Patrick Flynn	Equipment and materials have been received. Electrician is scheduled to install this month.		07/31/2003

Project Costs *Total spent posted as of: 09/30/03

Component(s) & Description	Orig. Estimate	Amended	Spent to Date	Over/Under	% of Budget
20002 CAPITALIZED TIME	\$765.00			\$765.00	0%
20003 IDC	\$88.00			\$88.00	0%
20704 LABOR, MATRIALS, AND	\$12,000.00	\$18,154.00	\$14,926.23	-\$2,926.23	124%
Totals:	\$12,853.00	\$18,154.00	\$14,926.23	-\$2,073.23	116.13%

Project

PAT'S PUMP & BLOWER, INC.

630 West Church Street Orlando FL 32805
 PH: 1-800-359-7867 FAX: 407-648-2096
 FEIN #: 59-2686727

Estimate

Number: E241

Date: June 16, 2003

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E
||

Bill To:

UTILITIES INC-ALAFAYA
 200 WEATHERSFEILD AVE
 ALTAMONTE SPRINGS, FL 32714

Ship To:

UTILITIES INC-ALAFAYA

PO Number	Terms	Sales Rep	Customer	Phone	Ship Via
	30 DAYS	NACHO	GARY	407-948-6559	

Description	Quantity	Price	Tax	Amount
REF GORMAN RUPP T6A3B REFURBISHMENT TO INCLUDE IMPELLER AND WEAR PLATE				
PARTS TO INCLUDE: WEAR PLATE, IMPELLER, BEARINGS, MECH. SEAL, MECH SEAL SLEEVE, SEALS, GASKETS, O'RINGS, SUCTION FLAPPER ASSY.		1,580.00	✓	1,580.00
LABOR TO INCLUDE: REMOVAL OF ROTATING ELEMENT, REMOVAL OF SUCTION FLANGE, REMAOVAL OF CLEAN OUT, CLEAN/ PREP AND INSPECTION OF SEALING SURFACES, REBUILD OF ROTATING ASSY, INSTALLATION, LASER ALIGNMENT, AND TEST		540.00	✓	540.00
ABOVE PARTS ARE 1-2 WEEKS OUT. PLEASE ADVISE ON HOW TO PROCEED.				
Sub-Total				\$2,120.00
State Tax 6.50% on 2,120.00				137.80
Total				\$2,257.80

PLEASE REMIT PAYMENT TO:
 PAT'S PUMP & BLOWER INC.
 THANK YOU FOR YOUR BUSINESS
 IGNACIO "NACHO" PACHECO Jr.

*Give "go ahead"
 on 6/16 @ 3:10*

X 3



EMERGENCY APPROVED

Capital Project Request

Florida FL C067 0647 1529
 Region State Co# Sub# ID #

Priority Level: 1 - OSHA/Required

Project Created: 07/02/03

Related to ID #:

Project Name: **Surge Pump Replacement/Rehabilitation**

Company: **Alafaya Utilities, Inc.**

Expenses to Start: **07/01/2003**

System: **Alafaya Utilities, Inc.**

Expenses to End: **08/01/2003**

Service(s): Water Sewer Water & Sewer Reuse Other...

Benefits Regulatory Requirement Expand Capacity Ongoing Maintenance
 Category: Improve Service Provide New Service Other (explain below)
 Cost Reduction Improve Safety

Estimated Costs by Component

WO#: 067-0647-116-03-05

PO#:

GL#:

Component(s)	Component Description	Original Estimate	Asset Designation
20002	Capitalized Time	\$1,020.00	<input type="radio"/> New Asset(s) <input type="radio"/> Upgrading Asset(s) <input type="radio"/> Repairing Asset(s) <input type="radio"/> Replacing Asset(s) If replacing existing equipment, when (year) was the original asset placed in service? _____
20003	IDC	\$54.00	
20112	Equipment & Labor	\$6,868.90	
20112	Contingency	\$600.00	

Capital Plan Estimate: \$7,468.90 Estimate Totals: \$8,542.90

Capitalized Time Estimate: 40 Hours Total # of Customers: 6,006 # of Affected Customers: Cost per Customer: \$1.42

Signature Authority & Approvals

Submitted by: Gary Musselwhite Title: Area Manager Date: 07/09/03
 \$5,000 - \$10,000 Patrick Flynn Regional Director Date: 07/11/03
 \$10,001 - \$25,000 _____ Director of Operations Date: _____
 Over \$25,000 _____ Chief Executive Officer Date: _____

Attachment(s) - Ref. # 1529

Fax QuickMail / Email
 Interoffice Mail Hand Delivery

Project Description
 List of System Projects

REYNTECH RESURFACING SPECIALISTS



PROPOSAL

"F"

February 17, 2003

Utilities Inc. of Florida
Alafaya Utilities
200 Weathersfield Avenue
Altamonte Springs, FL 32714

John Marinelli,

The proposal for Phase I, Manhole Inspection in Alafaya Woods, is as follows:

Reyntech Resurfacing will inspect 878 Manholes, beginning in the oldest section, of Phase IA, moving in succession from oldest to newest, until all are inspected.

The approximate cost for this inspection is \$17,560.00.

Manholes that are found to be in need of emergency repairs, shall be repaired immediately, after notifying Don Taylor and John Marinelli.

Sincerely,

3 months

Ernest R. Reynolds
Owner

APPROVED



Capital Project Request

Florida FL C067 0647 1492
Region State Co# Sub# ID#

Priority Level: 1 - OSHA/Required

Project Created: 06/04/03

Related to ID #:

Project Name: **Collection Manhole Inspection and Repair**

Company: **Alafaya Utilities, Inc.**

Expenses to Start: **07/01/2003**

System: **Alafaya Utilities, Inc.**

Expenses to End: **10/01/2003**

Service(s): Water Sewer Water & Sewer Reuse Other...

Benefits Regulatory Requirement Expand Capacity Ongoing Maintenance
Category: Improve Service Provide New Service Other (explain below)
 Cost Reduction Improve Safety

Estimated Costs by Component

WO#: 067-0647-116-03-06

PO#:

GL#:

Component(s)	Component Description	Original Estimate	Asset Designation
20002	Capitalized Time	\$1,020.00	<input type="radio"/> New Asset(s) <input type="radio"/> Upgrading Asset(s) <input type="radio"/> Repairing Asset(s) <input type="radio"/> Replacing Asset(s) If replacing existing equipment, when (year) was the original asset placed in service? _____
20003	IDC	\$511.00	
20812	Labor & Materials	\$35,120.00	

Capital Plan Estimate: \$35,120.00 Estimate Totals: \$36,651.00

Capitalized Time Estimate: 40 Hours Total # of Customers: 6,006 # of Affected Customers: _____ Cost per Customer: \$6.10

Signature Authority & Approvals

Submitted by: Gary Musselwhite

Title: Area Manager

Date: 07/18/03

\$5,000 - \$10,000 Patrick Flynn

Regional Director

Date: 07/23/03

\$10,001 - \$25,000 Lisa Crossett

Director of Operations

Date: 07/29/03

Over \$25,000 James L. Camaren

Chief Executive Officer

Date: 07/30/03

Attachment(s) - Ref. # 1492

Fax QuickMail / Email
 Interoffice Mail Hand Delivery

Project Description Estimate(s) Required
List of System Projects

APPROVED



Capital Project Request

Florida FL C067 0647 1168
Region State Co# Sub#

A # 11
4

Priority Level: 1 - OSHA/Required

Project Created: 03/01/03

Related to ID #:

Project Name: **Collection System Smoke Testing and Evaluation**

Company: Alafaya Utilities, Inc.

Expenses to Start: 12/01/2003

System: Alafaya Utilities, Inc.

Expenses to End: 04/01/2004

Service(s): Water Sewer Water & Sewer Reuse Other...

Benefits Category: Regulatory Requirement Expand Capacity Ongoing Maintenance
 Improve Service Provide New Service Other (explain below)
 Cost Reduction Improve Safety



Estimated Costs by Component

WO#: _____

PO#: _____

GL#: _____

Component(s)	Component Description	Original Estimate	Asset Designation
	Capitalized Time		<input type="radio"/> New Asset(s) <input type="radio"/> Upgrading Asset(s) <input type="radio"/> Repairing Asset(s) <input type="radio"/> Replacing Asset(s) If replacing existing equipment, when (year) was the original asset placed in service? _____
	IDC		
	Engineering	\$5,000.00	
	Labor & Materials	\$64,352.00	
	Contingency	\$6,000.00	

Capital Plan Estimate: _____ Estimate Totals: \$75,352.00

Capitalized Time Estimate: 80 Hours Total # of Customers: 6,006 # of Affected Customers: _____ Cost per Customer: \$12.55



Signature Authority & Approvals

Submitted by: Gary Musselwhite

Title: Area Manager

Date: 09/09/03

\$5,000 - \$10,000 Patrick Flynn

Regional Director

Date: 09/11/03

\$10,001 - \$25,000 Lisa Crossett

Director of Operations

Date: 09/22/03

Over \$25,000 James L. Camaren

Chief Executive Officer

Date: 09/26/03



Attachment(s) - Ref. # 1168

Fax QuickMail / Email
 Interoffice Mail Hand Delivery

Project Description Estimate(s) Required
List of System Projects

REYNTECH RESURFACING SPECIALISTS



PROPOSAL

February 17, 2003

Utilities Inc. of Florida
Alafaya Utilities
200 Weathersfield Avenue
Altamonte Springs, FL 32714

John Marinelli,

The proposal for Phase II, Smoke Testing, in Alafaya Woods is as follows:

Reyntech Resurfacing will Smoke Test approximately 257,408 feet, at 25 cents per foot.

The approximate cost for this service will be \$64,352.00.

Reyntech Resurfacing will supply notices (door hangers), area flags, and smoke. We will provide written reports on locations, and wheel footage.

Sincerely,

Ernest R. Reynolds
Owner

8-10k LINEAR FT/DAY

Capital Project Request

Florida FL C067 0647 1621
 Region State Co# Sub# ID#

Priority Level: 1 - OSHA/Required

Project Created: 09/09/03

Related to ID #:

Project Name: **Replacement Digester for Alafaya WWTF**

Company: **Alafaya Utilities, Inc.**

Expenses to Start: **01/01/2004**

System: **Alafaya Utilities, Inc.**

Expenses to End: **07/01/2004**

Service(s): Water Sewer Water & Sewer Reuse Other...

Benefits Category: Regulatory Requirement Expand Capacity Ongoing Maintenance
 Improve Service Provide New Service Other (explain below)
 Cost Reduction Improve Safety

Estimated Costs by Component

WO#: _____
 PO#: _____ GL#: _____

Component(s)	Component Description	Original Estimate	Asset Designation
	Capitalized Time		<input type="radio"/> New Asset(s) <input type="radio"/> Upgrading Asset(s) <input type="radio"/> Repairing Asset(s) <input checked="" type="radio"/> Replacing Asset(s) If replacing existing equipment, when (year) was the original asset placed in service? <u>1/1/1972</u>
	IDC		
	Engineering	\$36,500.00	
	Construction	\$420,000.00	
	Demolition	\$30,000.00	
	Controls & Instrumentation	\$70,000.00	
	Bypass Sludge Pumping	\$148,000.00	
	Contingency	\$20,000.00	

Capital Plan Estimate: \$725,000.00 Estimate Totals: \$724,500.00

Capitalized Time Estimate: 160 Hours Total # of Customers: 6,006 # of Affected Customers: _____ Cost per Customer: \$120.63

Signature Authority & Approvals

Submitted by: _____ Title: _____ Date: _____
 \$5,000 - \$10,000 _____ Regional Director Date: _____
 \$10,001 - \$25,000 _____ Director of Operations Date: _____
 Over \$25,000 _____ Chief Executive Officer Date: _____

Attachment(s) - Ref. # 1621

Fax QuickMail / Email
 Interoffice Mail Hand Delivery

Project Description Estimate(s) Required _____
 List of System Projects Timeline Required _____



1117 East Robinson Street
Orlando, Florida 32801
Phone: 407.425.0452
Fax: 407.648.1036
www.cphengineers.com

October 20, 2003

Mr. David Orr, P.E.
Regional Manager
Utilities, Inc. of Florida
200 Weathersfield Ave.
Altamonte Springs, FL 32714

RE: Alafaya Digester Improvements Proposal
CPH No.: U0739

Dear David:

We are pleased to submit this proposal to provide professional engineering services associated with the analysis, design and permitting of replacing the digester at the Alafaya Wastewater Facility.

Scope of Services

The existing digester at the Alafaya WWTF has a volume of 0.25 million gallons and is over twenty years old. The Facility is rated for 2.4 MGD of treatment. A Facility this size would typically requires approximately a 0.5 million gallon digester to properly treat the sludge. To our knowledge, the current digester is only sized for half the flow. The existing digester is near the end of its designed life and repair costs will increase as will the potential for catastrophic failure. Further, the existing blowers are inadequately sized. The Facility regularly uses the blowers for the West wastewater plant to supplement the air supply to the existing digester. An increase in blower capacity is required to properly aerate the new digester. Attached as Table 1 is an estimate to construct a new 0.5 million gallon digester to replace the existing digester. Included in this estimate is the construction of a new digester, piping and diffusers, new blowers, and demolition of the existing digester. Preliminarily, the digester is estimated to cost approximately \$500,000.

Bidding Construction Services

The engineer will provide bidding documents to the Utility and answer questions and issue addenda as required. The engineer will provide construction administration services part-time, which will consist of two visits per month.

Soils work is included in the scope of this project. We will need soil borings done at the tank. Surveying should be performed for this project and is listed as a separate line item.

Permitting through FDEP, and the City of Oviedo is included in the scope of this project. A wastewater permit is required from FDEP and an Oviedo site plan permit may be required. Permit fees are not included in the scope of this project, and shall be furnished by the Utility.

A final opinion of probable construction cost will be prepared based on the final plans and Contract Documents. Since the engineer has no control over the cost of labor, materials, or equipment, or over any construction contractor's method of determining prices, any opinion of probable construction cost that may be provided in the services of this Contract are made on the basis of the engineers experience and qualifications and represent his best judgment as a design professional familiar with the construction industry, but the engineer cannot and does not guarantee that bids or the construction cost will not vary from opinions of probable construction costs prepared by him. A preliminary opinion of probable construction costs is attached. Please refer to Table 1 for the preliminary opinion of probable construction costs. The total, including all options discussed, is estimated to be \$668,000.00.

J:\U0739 Sludge Processing Improvements\Alafaya Digester Improvements Proposal-rev.doc

Engineers, Planners, Landscape Architects, Surveyors, Construction Management, Design/Build
Sanford Orlando DeLand Jacksonville Tampa Fort Myers Palm City Palm Coast Dallas Puerto Rico



Table 1. Preliminary Opinion of Probable Construction Costs

	UNIT	QUANTITY	UNIT COST	TOTAL COST
Mobilization	LS	1	\$40,000.00	\$40,000.00
Site Grading	LS	1	\$15,000.00	\$15,000.00
Demolition	LS	1	\$30,000.00	\$30,000.00
New Digester	LS	1	\$225,000.00	\$225,000.00
Piping and Appurtenances	LS	1	\$40,000.00	\$40,000.00
Blowers	LS	1	\$100,000.00	\$100,000.00
Controls & Instrumentation	LS	1	\$70,000.00	\$70,000.00
Bypass Sludge Pumping	LS	1	\$148,000.00	\$148,000.00
Total Construction Cost				\$668,000.00

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 of the following types 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, soils investigation services if required or requested by the Owner.

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 and shown on Table 2 is estimated to be \$36,500.00, including the listed subconsultant fees, plus direct reimbursement for out-of-pocket expenses, without increase.

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 \$400 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.

Table 2. Proposed Engineering Costs

Design	\$18,000.00
Permitting	
Wastewater Permit (minor modification)	\$2,500.00
City of Oviedo Permit	\$2,500.00
Soils	\$3,500.00
Electrical	\$10,000.00
Total Engineering and Permitting	\$36,500.00

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 Engineers, Inc.

Stephen N. Romano, P.E.
Project Manager

Terry M. Zaudtke, P.E., DEE
Chief Operating Officer

**ACCEPTED BY:
UTILITIES, INC. OF FLORIDA**

Date: _____

TABLE 1

ALAFAYA UTILITIES INC. DIGESTER IMPROVEMENTS PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COSTS				
	UNIT	QUANTITY	UNIT COST	TOTAL COST
Mobilization	LS	1	\$40,000.00	\$40,000.00
Site Grading	LS	1	\$15,000.00	\$15,000.00
Demolition	LS	1	\$30,000.00	\$30,000.00
New Digester	LS	1	\$225,000.00	\$225,000.00
Piping and Appurtenances	LS	1	\$40,000.00	\$40,000.00
Blowers	LS	1	\$100,000.00	\$100,000.00
Controls & Instrumentation	LS	1	\$70,000.00	\$70,000.00
Bypass Sludge Pumping	LS	1	\$148,000.00	\$148,000.00
Total Construction Cost				\$668,000.00

TABLE 2

ALAFAYA UTILITIES INC. DIGESTER IMPROVEMENTS PROPOSED ENGINEERING COSTS	
Design	\$18,000.00
Permitting	
Wastewater Permit (minor modification)	\$2,500.00
Seminole County Permit	\$2,500.00
Soils	\$3,500.00
Electrical	\$10,000.00
Total Engineering and Permitting	\$36,500.00