April 5, 2018

City of New Smyrna Beach
Attn: Maureen Crossman, CPPB
200 Canal Street
New Smyrna Beach, Florida 32168

RE: RSQ #10-18 Continuing Professional Services

Dear City of New Smyrna Beach Selection Committee:

We are pleased to submit this Letter of Interest for Continuing Professional Engineering Services. The Principals at Booth, Ern, Straughan & Hiott, Inc. (BESH), have been providing civil and utility engineering services for over 20 years to both public and private clients. Water, wastewater, and reclaimed water utility engineering services are core missions at BESH. Our demonstrated history of responsiveness and providing cost-effective solutions translates to a trusted partner for your projects.

BESH offers the City our extensive experience in a wide range of water, wastewater, and reclaimed water utility projects. Our veteran team has worked on every aspect of utility design at facilities both large and small. BESH is also well-versed in hydraulic modeling and evaluation studies to determine the best options and solutions for your utility projects. We know utilities in Florida. Not only are we prepared to serve the City, but also thoroughly understand and respect the constraints of schedules and budgets. BESH is committed to working with The City of New Smyrna Beach to ensure that your projects are completed in a timely and cost-effective manner - without sacrificing the quality of our work and with the personal attention they deserve. Robert A. Ern, Jr., P.E. will be the point of contact for the City for all communications.

Additionally, we have teamed with Bailey Engineering Consultants, Inc., and Southeast Structural Engineers, Inc. Bailey Engineering Consultants, Inc. is a premier electrical and instrumentation engineering firm with over 30 years of experience in providing electrical, instrumentation, controls, and SCADA design for water and wastewater utilities. Southeast Structural Engineers, Inc. has provided structural engineering services throughout the state of Florida for over 30 years. The technical competence, reservoir of knowledge, skills and experience of Southeast Structural Engineers, Inc. results in creative, flexible engineering solutions that align with cost and design agendas.

The BESH team is the right choice for the City of New Smyrna for many reasons: experience, professionalism, a veteran team that understands the complexities and challenges of Florida coastal areas as well as the necessary processes for successful and timely project execution. But most importantly, the City will have the involvement of the Principals of the firm in the day-to-day project management and design. We are easily accessible and regularly available at a moment’s notice.
BEUSH looks forward to the opportunity to provide the City of New Smyrna Beach with superior Civil Engineering services. We are happy to answer any questions you may have with regards to the information contained herein. Please do not hesitate to contact our office at (352) 343-8481.

Sincerely,
BOOTH, ERN, STRAUGHAN & HIOTT, INC.

Robert A. Ern, Jr., P.E.
Principal
rern@besandh.com
RAE/cek
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Qualifications Data
## Utility Projects

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<td>Waterbrooke Lift Station &amp; Utility Lines</td>
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<td>Hillsborough Northwest Region Water Reclamation Facility</td>
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<td>Plantation Water Treatment Plant, Phase 1</td>
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<td>City of Fruitland Park Water Master Plan, Wastewater Master Plan &amp; Reuse</td>
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<td>County Crossings Wastewater Treatment Plant</td>
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<td>Groveland Silver Eagle Pump Station</td>
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<td>Groveland SR 50 &amp; Sampey Force Main</td>
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<td>Mount Dora Round Lake Road Utilities</td>
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<td>Umatilla Lift Station Rehabilitation</td>
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# Summary Project Listing

<table>
<thead>
<tr>
<th>Project Name &amp; Description</th>
<th>Client Information</th>
<th>Contract Value</th>
<th>Start/Finish</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Service Area Water Treatment Plant</td>
<td>City of Mount Dora Paul Lahr 510 N. Baker Street Mount Dora, FL 32757 352-735-7156 <a href="mailto:LahrP@ci.mount-dora.fl.us">LahrP@ci.mount-dora.fl.us</a></td>
<td>$4,200,000 (plant) $400,000 (wells)</td>
<td>2010/2014</td>
<td>Design, construction plans preparation, permitting and construction management for a new 4.00 mgd water treatment plant with permitting and construction management services for 3 miles of 16” capital water line to serve the area.</td>
</tr>
<tr>
<td>North Sumter Utility Company WTP #1, #2 &amp; #3</td>
<td>Central Sumter Utility Company Trey Arnett 1038 Lake Sumter Landing The Villages, FL 32162 (352) 753-4747 <a href="mailto:tarnett@arnettenvironmental.com">tarnett@arnettenvironmental.com</a></td>
<td>$9,200,000 (Total – all plants)</td>
<td>2007/2011</td>
<td>Designed and permitted three new water treatment plants, prepared construction plans and construction management services.</td>
</tr>
<tr>
<td>Sugarloaf Mountain Water Treatment Plant</td>
<td>City of Minneola Fred Miller 800 N. US Hwy 27 Minneola, FL 34715 (352) 242-1301</td>
<td>$3,200,000 (plant) $1,400,000 (wells)</td>
<td>2006/2008</td>
<td>Design, permitting, construction plans preparation and construction management for a new 5.76 mgd plant with ultimate capacity of 8.64 mgd.</td>
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<tr>
<td>Central Sumter Utility Company Wastewater Treatment Plant</td>
<td>Central Sumter Utility Company Trey Arnett 1038 Lake Sumter Landing The Villages, FL 32162 (352) 753-4747 <a href="mailto:tarnett@arnettenvironmental.com">tarnett@arnettenvironmental.com</a></td>
<td>$13,000,000</td>
<td>2011/2013</td>
<td>Design, permitting, construction plans preparation and construction management services for a new 1.6 mgd WWTP. Also master planned all facilities and components for expansion to ultimate flows.</td>
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<tr>
<td>Sugarloaf Mountain Capital Lift Station #1 &amp; #2</td>
<td>Landmar Group, LLC Al Penny 300 Primera Blvd., Suite 141 Lake Mary, FL 32746 (407) 544-1114</td>
<td>$750,000 each station</td>
<td>2006/2008</td>
<td>Design, permitting and construction administration for Capital Lift Stations #1 and #2 to serve the 2,500 unit Sugarloaf Mountain DRI.</td>
</tr>
<tr>
<td>City of Umatilla Water &amp; Wastewater Master Plans and Water &amp; Wastewater Impact Fee Studies</td>
<td>City of Umatilla Aaron Mercer 1 South Central Avenue Umatilla, FL 32784 (352) 669-3112 <a href="mailto:amercer@umatillaflo.org">amercer@umatillaflo.org</a></td>
<td>$61,400</td>
<td>2010/2010</td>
<td>BESH prepared both the Water and Wastewater Master Plans and the systemwide hydraulic model of the City’s existing water system. Master plans project population growth, water demands, wastewater flows and loading with recommendations for expansions.</td>
</tr>
<tr>
<td>County Crossings Wastewater Treatment Plant</td>
<td>Farmer, Barley &amp; Associates, Inc. Robert Farmer, P.E. 4450 NE 83rd Road Wildwood, FL 34785 (352) 748-3126 <a href="mailto:bfarner@farnerbarley.com">bfarner@farnerbarley.com</a></td>
<td>$2,570,000</td>
<td>2008/2010</td>
<td>Design, permitting, construction plans preparation and construction management services for a new 0.12mgd surface water discharge wastewater treatment plant. Work also included master planning all facilities and components for expansion to ultimate flows of 0.60 mgd.</td>
</tr>
<tr>
<td>Central Sumter Utility Company Water Treatment Plant #1</td>
<td>Central Sumter Utility Company - Trey Arnett 1038 Lake Sumter Landing The Villages, FL 32162 (352) 753-4747 <a href="mailto:tarnett@arnettenvironmental.com">tarnett@arnettenvironmental.com</a></td>
<td>$8,100,00 Phase 1</td>
<td>2011/2012</td>
<td>Design, permitting, construction plans preparation and construction administration for a new 4.32 mgd water treatment plant.</td>
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## Summary Project Listing

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<th>Project Name</th>
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<th>Start/Finish</th>
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<tr>
<td>Plantation Water Treatment Plant, Phase 1</td>
<td>City of Leesburg&lt;br&gt;DC Maudlin&lt;br&gt;501 W. Meadow Street&lt;br&gt;Leesburg, FL 34748&lt;br&gt;(352) 435-9442</td>
<td>$3,313,700</td>
<td>2015/2016</td>
<td>BESH completed a Basis of Design study to determine plant expansion needs. Three wells from an older plant were utilized for the new plant constructed ¼ mile from existing site with a new raw water main conveying raw water to the new facility where it is treated, stored and pumped into the distribution system. Plant has 3.2 mgd capacity.</td>
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<tr>
<td>City of Umatilla WTP Expansion #1</td>
<td>City of Umatilla&lt;br&gt;Scott Blankenship&lt;br&gt;1 South Central Avenue&lt;br&gt;Umatilla, FL 32784&lt;br&gt;(352) 669-3125&lt;br&gt;<a href="mailto:sblankenship@umatillafl.org">sblankenship@umatillafl.org</a></td>
<td>$1,458,100</td>
<td>2015/2017</td>
<td>BESH provided survey, WTP design and permitting, construction bid documents and construction administration for the City’s WTP Expansion. The project consisted of construction of a new ground storage tank, addition of an altitude valve to the existing elevated storage tank, replacement of three vertical turbine can pumps with three new split case horizontal pumps, replacement of the existing fluoride feed system, addition of a new flowpaced, post-chlorination system, electrical and controls improvements, modifications to the existing building to accommodate the electrical improvements, new yard piping and new site work including drainage. Plant has 1.2 mgd capacity.</td>
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<tr>
<td>City of Umatilla Water System Improvements</td>
<td>City of Umatilla&lt;br&gt;Scott Blankenship&lt;br&gt;1 South Central Avenue&lt;br&gt;Umatilla, FL 32784&lt;br&gt;(352) 669-3125&lt;br&gt;<a href="mailto:sblankenship@umatillafl.org">sblankenship@umatillafl.org</a></td>
<td>$4,000,000</td>
<td>2014/2015</td>
<td>Scope of services included route survey and utility location services for approximately 8.1 miles of distribution piping networked throughout the city as well as reviewing the Water Master Plan and existing water maps to identify the lines needing replacement, updating the water distribution model, identifying new infrastructure to serve existing needs and upsizing for future needs. Additionally, BESH handled (FDEP) permitting and provided Project Specifications, bidding assistance, construction management and all necessary final certifications and Grant Administration Services 43,000 LF of water main.</td>
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<tr>
<td>City of Groveland Eagle Ridge Phase III</td>
<td>City of Groveland&lt;br&gt;James Huish&lt;br&gt;156 S. Lake Avenue&lt;br&gt;Groveland, FL 34736&lt;br&gt;(352) 429-0227&lt;br&gt;<a href="mailto:James.Huish@groveland-fl.gov">James.Huish@groveland-fl.gov</a></td>
<td>$3,600,000</td>
<td>2016/2017</td>
<td>The City of Groveland has two wastewater treatment plants located approximately 7 miles apart. BESH provided surveying, design, permitting, bidding and construction oversight for this project which consists of nearly 7.6 miles of 12” reclaimed water transmission main between the two plants. In addition, new pumping facilities were designed and constructed at each plant facility to transfer the reclaimed water between facilities. 40,000 LF of reclaimed water main.</td>
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<tr>
<td>City of Groveland SR 50 &amp; Sampey Road Force Main</td>
<td>City of Groveland&lt;br&gt;James Huish&lt;br&gt;156 S. Lake Avenue&lt;br&gt;Groveland, FL 34736&lt;br&gt;(352) 429-0227&lt;br&gt;<a href="mailto:James.Huish@groveland-fl.gov">James.Huish@groveland-fl.gov</a></td>
<td>$840,000</td>
<td>2016/2017</td>
<td>BESH was responsible for utility locating, route survey, final design, permitting, project bidding and construction management. The scope of the project called for the construction a new 12” PVC force main to run parallel with an existing force main to the Sampey Road WWTP. This new force main diverts flow from an existing Lift Station to the WWTP in order to reduce the flow and head in the existing force main allowing other lift stations on the system to operate more efficiently. 10,300 LF of wastewater main.</td>
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<td>Project Name</td>
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<td>City of Fruitland Park/Lady Lake Sewer Interconnect</td>
<td>City of Fruitland Park</td>
<td>$1,367,720</td>
<td>2016/2016</td>
<td>BESH completed a preliminary engineering study of potential options for wastewater treatment. Construction of an interconnect between the town’s treatment facilities was deemed the best option financially and logistically. The interconnect defers the cost of constructing new facilities for 10-20 years while allowing the City to collect impact fees to aid future construction costs. It also provides supplementary operating revenue to the Town of Lady Lake helping their debt service on their new 1,000,000 gpd wastewater treatment facility currently operating at 25%-35% permitted capacity while providing seamless service for current and projected growth. 9,200 LF wastewater main</td>
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<tr>
<td>City of Mount Dora Britt Road Capital Utility Extension</td>
<td>City of Mount Dora</td>
<td>$3,700,000</td>
<td>2016/2017</td>
<td>The scope of work included utility location, aerial photography, route survey, final design, permitting, easement acquisition, project bidding and construction management. Project included new water mains, reclaimed and sanitary force mains on Britt Road in order to further loop the City’s utility systems in anticipation of interruptions to service brought on from the SR 44 roadway and utility construction. Total length of new water main is 15,700 LF. Total length of reclaimed water main is 21,300 LF. Total length of the new force main of 10,500 LF.</td>
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<td>Hillsborough Northwest Regional Water Reclamation Facility</td>
<td>Garney, Inc.</td>
<td>$7,500,000</td>
<td>Design 2016/2017</td>
<td>The project is a Design-Build expansion of the facility and BESH’s scope included the design of a 30 MGD ADF (60 MGD PHF) headworks structure. BESH also provided hydraulic calculations for flows through the structure to confirm capacity, construction administration and prepared the O &amp; M Manual sections related to headworks and associated equipment.</td>
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<tr>
<td>City of Mount Dora SR 46 Utilities Design Project</td>
<td>City of Mount Dora</td>
<td>$4,200,000</td>
<td>2016/2017</td>
<td>The scope of the project included design, permitting, bidding and construction administration for the installation of new water, reclaimed water and wastewater improvements within the proposed FDOT right-of-way on the north side of SR46, within the limits of the future Wekiva Parkway. The project consisted of 37,300 LF broken out as follows: 9,400 LF of 16” water main, 2,500 LF of 12” water main, 9,400 LF of 12” reclaimed water main, 7,300 LF of 16” wastewater force main, 6,700 LF of 8” wastewater force main, 2,000 LF of 12” wastewater gravity sewer</td>
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<tr>
<td>City of Fruitland Park Water Master Plan, Wastewater Master Plan &amp; Reuse Water Capital Improvement Master Plan</td>
<td>City of Fruitland Park</td>
<td>$70,000</td>
<td>2012/2012</td>
<td>BESH prepared Water, Wastewater and Reuse Master Plans to assist city in planning for future growth. Created hydraulic model of City’s existing water system to properly plan for growth and capital improvements.</td>
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City of Mount Dora
SR 46 Utility Design Project

The scope of the project included design, permitting, bidding and construction administration for the installation of new water, reclaimed water and wastewater improvements within the proposed FDOT right-of-way on the north side of SR46, within the limits of the future Wekiva Parkway.

The route extends from approximately Sebastian Street on the west end to Round Lake Road on the east end of the project. In addition, the work extends several hundred feet north and south on Round Lake Road as necessary to extend utilities beyond the proposed FDOT improvements.

Permitting occurred through the FDOT and the Florida Department of Environmental Protection. Due to the fact that the work spans two separate FDOT projects along the SR46 corridor, two separate FDOT utility permits were submitted.

BESH took into account the future FDOT construction with detailed design drawings for the construction of the new 16" waterline, 16" reclaimed waterline dual 8" and 16" force mains and 12" gravity sewer to be constructed within the proposed FDOT right-of-way. The fast-track design was completed in 3 months to allow the construction to be completed prior to FDOT beginning their construction, and included an alignment that avoided impacts from the installation of FDOT’s stormwater infrastructure and light poles.

The project consisted of 37,300 LF broken out as follows:
- 9,400 LF of 16” water main
- 2,500 LF of 12” water main
- 9,400 LF of 12” reclaimed water main
- 7,300 LF of 16” wastewater force main
- 6,700 LF of 8” wastewater force main
- 2,000 LF of 12” wastewater gravity sewer

Construction Cost: $4,200,000
Construction Completion: 2017
Client Contact: Paul Lahr
City Engineer
Client Phone Number: (352) 735-7151

PROJECT TEAM

BESH
Robert A. Ern, Jr., P.E. - Engineer of Record/Project Mgr.
Michael Scullion, P.E. - Project Engineer
Ron Griffor - Project Designer
City of Fruitland Park – Town of Lady Lake Sewer Interconnect Project

The City’s small, 100,000 gpd wastewater treatment facility was difficult to operate and stay in compliance with FDEP permit conditions with current flows of approximately 42,000 gpd. The City’s wastewater treatment plant had many problems including lack of headworks/screening facilities, short circuiting of the aerobic basin, insufficient clarification equipment and inefficient disposal capacity. Based upon current operations, and past discussions with the plant operator, it was estimated that this plant, while rated for 100,000 gpd, did not have the capability to treat over approximately 75,000 gpd due to design flaws and operational challenges. BESH was contracted by the City of Fruitland Park to conduct a preliminary engineering evaluation of potential options for the treatment of wastewater generated within the City’s Utility Service Area. The purpose of the evaluation was to assist the City in determining the best option for both short term and long term treatment of wastewater. Construction of an interconnect with the Town of Lady Lake’s wastewater treatment facilities was selected as the preferred option.

Construction Cost: $1,600,000.00
Completion Date: 2016
Client: City of Fruitland Park
Contact: Gary La Venia
City Manager
Phone: (352) 360-6727

PROJECT TEAM

BESH
Robert A. Ern, Jr., P.E.- Engineer of Record
Mike Straughan, P.S.M., Survey Manager
Troy Mitchell, P.E., Project Engineer
Chris Williams, Senior Designer

The city chose to construct a temporary interconnect with the Town of Lady Lake. This involved the construction of a large pump station with standby generator, 1.75 miles of sewer force main and connection to the Town of Lady Lake’s collection system at an estimated cost of $1,367,720. The sizing of this option is based on pumping 500,000 gpd and could have a life of 10 to 20 years subject to growth expected within the two Cities and final agreements. Benefits include: deferring the cost of constructing wastewater treatment facility improvements for 10 to 20 years thereby allowing the City to collect impact fees during this period to aid in new facility construction, the addition of customers and higher flows to reduce operation costs when a larger plant is constructed and a decrease in Utility Department operating costs during this period. In addition, the pump station and surge tank facilities constructed for the interconnect will be integrated into the future construction of a new facility for the City.

Additional Benefits to the Town of Lady Lake include additional operating revenue to help with their debt service on their new 1,000,000 gpd wastewater treatment facility which currently operates at only 25 to 30% of permitted capacity.
Central Sumter Utility Company
Wastewater Treatment Plant
The Villages, Florida

The scope of work included final design, preparation of construction plans, permitting and construction management for the new 1.60 mgd wastewater treatment plant. All subconsultants worked directly for Booth, Ern, Straughan & Hiott, Inc. Work also included master planning all facilities and components for expansion to ultimate flows. The facility utilizes the EIMCO Carousel denitlR biological process, and tertiary treatment is provided, with 100% of acceptable effluent being utilized for irrigation of golf courses. The plant design consisted of the following major components: headworks with mechanical screening and flow splitting, denitrification, aeration via an oxidation ditch, clarification, filtration, disinfection, sludge dewatering via a belt press, effluent holding, standby power generation, effluent distribution pumping and backup disposal via RIB’s.

Construction Cost: $13,000,000.00
Completion Date: 2013
Client Contact: Trey Arnett, President
Arnett Environmental, LLC
Client Phone Number: (352) 753-4747

PROJECT TEAM

BESH
Robert A. Ern, Jr. P.E. – Engineer of Record
Troy E. Mitchell, P.E. – Project Manager
Christopher B. Williams – Senior Designer

BAILEY ENGINEERING CONSULTANTS, INC.
Electrical Design Subconsultant
Eagle Ridge Phase III Reclaimed Water Pipeline Project

The City of Groveland has two wastewater treatment plants located approximately 7 miles apart. Due to growth patterns in the City, reclaimed water usage was not split evenly between the two service areas serviced by the wastewater treatment plants. Therefore, the City desired to have the ability to transfer treated reclaimed water from one facility to the other in order to optimize the usage of the reclaimed water and through interconnect between the two plants was desired.

BESH provided surveying, design, permitting, bidding and construction oversight for this project which will consist of nearly 7.6 miles of 12” reclaimed water transmission main between the two plants. In addition, new pumping facilities were designed and constructed at each plant facility to transfer the reclaimed water between facilities.

The project was funded partially by a grant from the SJRWMD cost-share program. The estimated cost of the project construction is $3,600,000 with engineering valued at approximately $340,000. The SJRWMD grant contributed approximately $1,200,000 towards the overall project cost.

Total LF breakdown:
40,000 LF of 12” reclaimed water main

Construction Cost: $3,600,000
Engineering Cost: $380,000
Construction Completion: 2017
Client Contact: James Huish
Public Services Director
Client Phone Number: (352) 429-0227

PROJECT TEAM

BESH
Robert A. Ern, Jr., P.E., Principal in Charge
Duane K. Booth, P.E., QA/QC
J. Michael Straughan, P.S.M., Survey Manager
Troy Mitchell, P.E., Project Engineer
Ron Griffor, Designer
North Sumter Utility Company
Wastewater Treatment Facility

The scope of work included final design, preparation of construction plans, permitting and construction management for this new 1.50 mgd wastewater treatment plant and subsequent expansion to 2.8 mgd. All subconsultants worked directly for Booth, Ern, Straughan & Hiott, Inc. Work also included master planning all facilities and components for expansion to ultimate flows. The facility utilizes the EIMCO Carrousel denitrification biological process, and tertiary treatment is provided, with 100% of acceptable effluent being utilized for irrigation of golf courses. The plant design consisted of the following major components: headworks with mechanical screening and flow splitting, denitrification, aeration via an oxidation ditch, clarification, filtration, disinfection, sludge dewatering via a belt press, effluent holding, standby power generation, effluent distribution pumping and backup disposal via RIB’s.

Construction Cost: $8,100,000.00-Phase I
$3,300,000.00-Phase II

Completion Date: 2006

Client Contact: Trey Arnett, Vice President
North Sumter Utility Company

Client Phone Number: (352) 753-4747

PROJECT TEAM

BESH
Robert A. Ern, Jr. P.E.
Troy E. Mitchell, P.E.
Christopher B. Williams

BAILEY ENGINEERING CONSULTANTS, INC.
Electrical Design Subconsultant
Plantation Water Treatment Plant, Phase I

Booth, Ern, Straughan & Hiott, Inc., completed a Basis of Design study to determine plant expansion needs and conducted final engineering design and permitting on this plant expansion. Three existing potable wells were utilized, but the remainder of the existing facility was demolished. A new facility was constructed at a location approximately ¼ mile from the existing site. Raw water is conveyed to the new site via a new raw water main where it will be treated, stored and pumped into the distribution system. The new plant consisted of an 800,000 gallon ground storage tank with aeration, two vertical turbine VFD controlled high service pumps, two VFD controlled vertical turbine jockey pumps, liquid chlorination facilities, standby power facilities and related electrical, controls and SCADA upgrades. All facilities are housed in a new high service pumping station building.

Engineering Fees: $76,830.00
Completion Date: 2016
Client Contact: D.C. Maudlin
Phone Number: (352) 435-9442

PROJECT TEAM

BEH
Robert A. Ern, Jr. P.E. – Engineer of Record
Troy E. Mitchell, P.E.
Christopher B. Williams

BAILEY ENGINEERING CONSULTANTS, INC.
Stephen Bailey - Electrical Design Subconsultant
Silver Eagle Reclaimed Storage Tank

BESH was contracted to provide services regarding the construction of a new 1.5 mgd concrete ground storage tank and one additional high service pump at the site. Tasks performed by BESH included an as-built site survey at the existing Silver Eagle site in order to verify existing improvements that were utilized in the final design as well as locate all required soil boring locations and elevations. BESH also prepared final engineering drawings for the reclaimed storage tank that allowed both the existing and new tanks to “float” at the same level as well as handled all FDEP permitting and construction oversight.

Construction Cost: $1,400,000

Construction Completion: 2017

Client Contact: James Huish
Public Services Director

Client Phone Number: (352) 429-0227

PROJECT TEAM

BESH
Robert A. Ern, Jr., P.E., Principal in Charge
Troy Mitchell, P.E., Project Engineer
Ron Griffor, Designer
South Umatilla Water System-Lake County

Project consisted of construction of a new water distribution system in Lake County, Florida. The new distribution system is to be connected to the City of Umatilla's potable water system, and included the abandonment of an existing, small community water system which was failing and under consent order from the Florida Department of Environmental Protection. Construction of the project was funded by a CDBG grant. The project scope included design, permitting, bidding and construction management, as well as regular interface with Lake County's project manager handling CDBG administration duties. Project included approximately 6,400 LF of 6" pipe, 3,600 LF of 8" pipe, 6,000 LF of 10" pipe and 2,700 LF of 12" pipe, as well as new water services, meters and fire hydrants. Installation methods include both open trench and directional bore. Project was constructed in a constrained right-of-way and was done so as to minimize impacts to existing customers.

Construction Cost: $1,100,000.00
Completion Date: December 2012
Client: Lake County BOCC
Contact: Fred Schneider
Phone: (352) 483-9000

PROJECT TEAM

BESH
Robert A. Ern, Jr., P.E. - Engineer of Record
Mike Straughan, P.S.M., Survey Manager
Troy Mitchell, P.E., Project Engineer
Chris Williams, Senior Designer
Eastern Service Area Water Treatment Plant

The scope of work included final design, preparation of construction plans, permitting and construction management for a new 4.00 mgd water treatment plant with an ultimate capacity of 7.00 mgd. In addition, the project includes design, permitting and construction management services for approximately 3 miles of 16" capital water line to serve the areas surrounding the facility. All subconsultants worked directly for Booth, Ern, Straughan & Hiott, Inc. The plant design consisted of the following major components: design and construction of two, 16" Floridan Aquifer wells, two 2,000 gpm potable water well pumps, a 1,000,000 gallon ground storage tank with cascade tray aerator, three VFD controlled high service pumps with a capacity of 2,000 gpm each, electrical and controls, 700 kW diesel powered emergency generator and transfer switch, liquid pre- and post-chlorination facilities, iron sequestration feed system, a high service pump building equipped with photovoltaic solar cells, and a SCADA system.

Construction Cost: $4,200,000.00 (plant) (estimated) $400,000.00 (wells)
Completion Date: 2014
Client Contact: Paul Lahr
City Engineer City of Mount Dora
Client Phone Number: (352) 735-7156

PROJECT TEAM

BESH
Robert A. Ern, Jr. P.E. - Engineer of Record
Mike Straughan, P.S.M.
Troy E. Mitchell, P.E.
Christopher B. Williams

BAILEY ENGINEERING CONSULTANTS, INC.
Electrical Design Subconsultant
Tab 2
Consultant’s Understanding
Project Approach and Experience

BESH has successfully executed hundreds of utility projects under continuing services contracts for central Florida municipalities including the Cities of Mount Dora, Tavares, Umatilla, Leesburg, Groveland, Mascotte, Clermont, and Minneola. We understand the varying nature of task orders that can be expected as part of a continuing services contract and are prepared to work through the specifics of each project as it is assigned to our team. Our utility design experience encompasses the full realm of water, wastewater, and reclaimed water treatment, storage, collection and distribution including:

- Water Treatment Plant Design
- Wastewater Treatment Plant Design
- Water and Wastewater System Master
- Water and Wastewater Impact Fee Studies
- Lift Station Design and Rehabilitation
- Potable Water Booster Pump Station Design
- Utility Line Relocations
- Water and Reclaimed Water Main Design
- Gravity Sewer Design
- Wastewater Force Main Design
- Reclaimed Water Storage and Pumping Facility Design
- Permitting Through FDEP and SJRWMD
- Hydraulic Modeling
- Cost Estimating
- Construction Oversight
- SRF Loan Applications and Project Management

A general project approach and similar project experience for several similar types of projects listed in the Request for Qualifications is presented below.

Water and Wastewater Utility

Water and wastewater utility design services are a core focus at BESH. Our general approach to the execution of water and wastewater utility projects includes:

- Conducting a Kick-Off Meeting with City staff to establish project expectations and collect data.
- Development of 60% design documents and cost estimate.
- Review of 60% design documents through our internal QA/QC process and with the City.
- Development of 90% design documents and update cost estimate.
- Review of 90% design documents through our internal QA/QC process and with the City.
- Prepare and submit permit applications and address permit agency comments.
- Production of bids documents.

A summary of our water and wastewater utility experience is presented below.
Permitting
BESH has obtained hundreds of permits from the Florida Department of Environmental Protection (FDEP) for water treatment plants, wastewater treatment plants, water mains, force mains, sanitary sewers and lift stations. These permits have included general permits, as well as minor and major modifications. In the course of obtaining FDEP permits BESH prefers to schedule pre-application meetings with FDEP when necessary due to the complexity of the project. Our recent FDEP permitting experience includes obtaining the water treatment plant permit for Village of Southern Oaks WTP, minor modification of the City of Groveland’s Sampey Road WWTP and permitting of a replacement water main along State Route 50 in Mascotte.

Hydraulic Modeling
Prior to initiating a hydraulic modeling project, we would meet with the City to develop an understanding of the goal of the modeling effort and to obtain any existing hydraulic models. After thorough review of the existing model to confirm its accuracy, our team would update the model and collect field data as required for calibration. Scenarios would then be created to evaluate the impacts of any proposed improvements. On a recent project, BESH discovered an unknown closed valve within the City of Mount Dora’s reclaimed water system. Upon opening the valve, numerous pressure issues the City had been experiencing were relieved.

Water and Wastewater Pipeline Design and Rehabilitation
Water and wastewater pipeline design and rehabilitation is a strength of our team, having completed the design of over 200,000 linear feet of new or relocated pipeline over the past two years. Upon commencing the design of a pipeline project, we review records of existing underground utilities, and begin the completion of a route survey to identify both above ground and below ground improvements within the right-of-way. After confirming capacity and pipe sizing requirements we develop a preliminary pipeline route for review by the City. As the design is developed we would provide 60% and 90% drawings and specifications, as well as an opinion of probable construction cost, for review by the City. We would apply for permits from the FDEP and if required, the Florida Department of Transportation (FDOT) at the 90% complete milestone. Any comments received from FDEP or FDOT would be incorporated into the final bid documents. Our team can also work with the City to obtain easements outside of the existing right-of-way if desired as we’ve done frequently for the City of Mount Dora to avoid the uncertainty of being required to relocate utilities in the future due to roadway widening projects. BESH recently completed the Eagle Ridge Phase III project for the City of Groveland which included the construction of over 40,000 linear feet of 12” reclaimed water main along State Route 19 to allow for pumping of reclaimed water between the City’s two wastewater treatment plants.

Water and Wastewater Treatment Plants
Over our twenty plus years of working with central Florida municipalities, BESH has completed a wide range of water and wastewater treatment plant projects ranging from upgrades of individual unit processes to the construction of new process trains and new facilities. Our first step upon the initiation a project will be to meet with the City to develop an understanding of the goals of the project, collect data on existing facilities, and visit the existing facilities. As a first step in the design process we will discuss potential alternatives with City staff. After selection of a design alternative, we will develop a 30% preliminary design report consisting of initial process sizing criteria, site plan, electrical single line diagrams, process & instrumentation diagrams, preliminary cost estimate, implementation schedule, and preliminary construction phasing plan. After review by the City and completion of our internal review process, the preliminary design report would be utilized in support of obtaining FDEP permits.
We would provide additional submittals for review by the City at the 60% and 90% design milestones. Updated cost estimates would be included with each submittal along with a description of changes to the design that had impacted the construction cost of the project. Any comments from the City or FDEP would be incorporated into a final bid ready design submittal. Our recent water and wastewater treatment plant project experience includes the design of the City of Leesburg’s Plantation Water Treatment Plant, and the Central Sumter Utilities Wastewater Treatment Plant in The Villages.

Quality Assurance and Quality Control

**BESH** conducts internal review and Quality Control of all documents produced in the course of each project design. We include the Client in the design process as much as possible to ensure the product being provided is as desired. Project documents are typically submitted to the Client at 60% and 90% completion to obtain input from Staff and to ensure the end product is as expected. As a course of normal business, **BESH** requires an internal review of all design documents by experienced professionals prior to the release of materials at all stages of the project. As work progresses, **BESH** conducts meetings with all Team members and Client staff for the purpose of providing project updates and reviews and mitigating any undesirable or unacceptable work product.

Your Proven Local Utility Engineering Leader

**BESH** is well equipped to handle water and wastewater engineering services projects for the City of New Smyrna Beach. We understand the need to produce high-quality design documents on schedule and on budget and have developed a reputation for delivering for our municipal clients. **BESH** has successfully executed numerous projects involving water and wastewater treatment plants, pump stations, and pipelines, ranging from master planning and assessments through design, permitting, and construction oversight. **BESH** can offer the City of New Smyrna Beach the expertise required to get the job done, while providing an unmatched level of customer service.
Tab 3
Staffing Requirements
Robert A. Ern, Jr., P.E., Engineer of Record/Principal

Mr. Ern is a licensed Civil Engineer with over 22 years experience in all aspects of utility design. Mr. Ern is heavily experienced in civil engineering project management and has applied his knowledge to a variety of utility related projects aspects and phases of design, from preliminary to final. His credentials include design and permitting of wastewater treatment plants, water treatment plants, sewage pump stations, water booster pump stations, collection, transmission and distribution systems, as well as master planning of utility facilities and impact fee studies. Mr. Ern also has extensive experience in the construction management of utility projects, multiple project delivery methods including Design/Bid/Build, Design/Build and Project Manager-at-Risk for both public and private clients. Mr. Ern also assists clients with funding utility projects through the State Revolving Fund Program.

Mr. Ern has been the City Engineer for the Cities of Tavares, Mount Dora and Minneola; providing design services as well as continuing engineering services including the creation of Utility Design Standards and Land Development Regulations. Mr. Ern is also thoroughly knowledgeable regarding development applications on behalf of his municipal clients to ensure compatibility with current codes and regulations.

Select Projects:

• **City of Mount Dora, Eastern Service Area WTP** - Engineer of Record for new 4.0 mgd water treatment plant. Treatment will include iron sequestration, aeration and disinfection. Plant also includes ground storage and VFD controlled high service pumping.

• **CSU Water Treatment Plant, The Villages** - Engineer of Record for new 4.32 mgd water treatment plant. Treatment includes forced draft aeration, pH adjustment and disinfection. Plant also includes ground storage and VFD controlled high service pumping.

• **SWCA Pump Station #3, The Villages** - Engineer of Record for new 5.76 mgd irrigation and fire protection pump station. Treatment includes influent screening, effluent filtration and disinfection. Pump station collects and treats stormwater runoff, which is supplemented by groundwater.

• **CSU WWTP, The Villages** - Engineer of Record for new 2.6 mgd wwtp. Treatment includes influent screening, anoxic/oxidation biological treatment, clarification, filtration and disinfection. Reclaimed water is utilized for golf course irrigation.

• **VWCA Pump Station #10, The Villages** - Engineer of Record for new 5.76 mgd irrigation and fire protection pump station. Treatment includes influent screening, effluent filtration and disinfection. Pump Station collects and treats stormwater runoff, which is supplemented by groundwater.

• **Eagle Ridge Phase III Reclaimed Water Pipeline Project, Groveland, FL** – Engineer of Record for this project to connect 2 wastewater treatment plants approximately 7 miles apart in order to treated reclaimed water from one wwtp facility to the other wwtp, in order to optimize the usage of the reclaimed water. BESH was hired to provide surveying, design, permitting, bidding and construction oversight for this project which consisted of nearly 7.3 miles of 12” reclaimed water transmission main between the two plants. In addition, new pumping facilities were designed and constructed at each facility to transfer the reclaimed water between facilities. The project was partially funded by a grant from the SJRWMD cost-share program.

**Education:**
B.S. in Civil Engineering, University of Central Florida - 1994

**Professional Registrations:**
• Florida #54013
• Alabama #28365
• Georgia #033701
• FDEP Stormwater Inspector #29648

**Professional Affiliations:**
• American Society of Civil Engineers
• Water Environment Federation
• American Water Works Association

**Experience Highlights:**
• Wastewater Treatment Plant Design and Permitting
• Water Treatment Plant Design and Permitting
• Potable Water Pumping Station Design
• Wastewater Pumping Station Design
• Hydraulic Modeling of Water Systems
• Collection, transmission, distribution and reclaimed water system design and permitting
• Design-Build Utility Construction
• Construction Engineering Inspection
• Cost Estimating
• Utility Master Planning
• Utility System Impact Fee Analysis

**Community Involvement:**
• Board of Directors, Florida Greenways & Trails Foundation
• Member, Tavares Chamber of Commerce
• Member, Mount Dora Chamber of Commerce
• Sponsor Member, Lake County League of Cities
• Florida Lake Watch Volunteer
• Leadership Lake County – Class of 2000
Troy E. Mitchell, P.E., Project Engineer

Mr. Mitchell is a Civil Engineer experienced in a variety of utility and site related projects, having been involved in all aspects and phases of design from preliminary to final. Mr. Mitchell’s experience includes design of water treatment plants, wastewater treatment plants, water booster pump stations, sewage pump stations, collection, transmission and distribution systems. Mr. Mitchell also has experience in the design of residential and commercial projects, which includes geometry, grading, drainage and permitting. Mr. Mitchell’s project engineer experience encompasses preliminary and final design, value engineering, cost estimating, specification writing and bidding. Mr. Mitchell participates in quality control to ensure compliance with local and state regulations as well as coordinates with other related disciplines such as planning, electrical, structural, geotechnical and architectural consultants in order to provide a complete package for the client’s needs.

Select Projects:

- **SWCA Pump Station #3, The Villages** - Project Engineer for new 5.76 mgd irrigation and fire protection pump station. Treatment includes influent screening, effluent filtration and disinfection. Pump station collects and treats stormwater runoff, which is supplemented by groundwater.
- **Hillsborough Northwest Water Reclamation Facility** – provided design for headwork structures and hydraulic calculations for flows through the structure to confirm capacity. Provided construction inspection services and prepared O & M manual.
- **City of Mount Dora, Eastern Service Area WTP** - Project Engineer for new 4.0 mgd water treatment plant. Treatment includes iron sequestration, aeration and disinfection. Plant also includes ground storage and VFD controlled high service piping.
- **City of Tavares, Woodlea Road WWTP** - Project Engineer for the expansion of existing facility from 1.0 mgd to 3.0 mgd. Upgrade to tertiary treatment to supply re-use water. Removal of the 0.75 mgd Caroline Street WWTP from service. Facility was replaced with a pump station to convey all raw wastewater to the newly expanded Woodlea Road facility. Included in this flow diversion was approximately 12,000 linear feet of 16” force main. An effluent pump station and several capital re-use distribution lines were included in the scope of this project.
- **Waterbrooke Lift Station, Clermont, FL** – BESH was contracted to design a new lift station, capital water main, capital force main and reclaimed main. BESH handled all permitting, construction bid documents as well as construction administration services.

**Education:**
Bachelors of Science Environmental Engineering, University of Central Florida – 1995

**Professional Registrations:**
- Florida #60190
- FDEP Stormwater Inspector #29647

**Professional Affiliations:**
- American Society of Civil Engineers

**Experience Highlights:**
- Wastewater Treatment Plant Design and Permitting
- Water Treatment Plant Design and Permitting
- Wastewater Pumping Station Design
- Collection, transmission, distribution and reclaimed water system design and permitting
- Army Corps of Engineers Dredge and Fill
- Street and Highway Design
- FEMA Permitting
- Residential/Commercial Site Design and Permitting
- Cost Estimating

**Community Involvement:**
- AWANA
- 4-H
Michael C. Scullion, P.E., B.C.E.E.

Mr. Scullion is a licensed Environmental Engineer with 11 years of experience in utility design with a focus on wastewater treatment plants, lift stations and gravity sewers. Mr. Scullion is not only proficient in environmental engineering project management, but also in utility-related projects with involvement in all aspects and phases of design from preliminary to final. His experience includes design and permitting of wastewater treatment plants, water treatment plants, sewage pump stations, collection, transmission and distribution systems as well as master planning of utility facilities. Additionally, Mr. Scullion has a thorough understanding in the construction management of utility projects and grant application development and funding. Mr. Scullion is experienced in multiple project delivery methods including Design/Bid/Build, Design/Build and Project Manager-at-Risk for both public and private clients. He also has extensive experience in the review of development applications on behalf of his municipal clients to ensure compatibility with current codes and regulations.

Select Projects:

SR 46 Utility Extension, Mount Dora, FL - The scope of the project included design, permitting, bidding and construction administration for the installation of new water, reclaimed water and sewer improvements within the proposed FDOT right-of-way on the north side of SR46. Permitting is with the FDOT and the Florida Department of Environmental Protection. Due to the fact that the proposed work spans two separate FDOT projects along the SR46 corridor, two separate FDOT utility permit applications were submitted. BESH took into account future FDOT construction with detailed design drawings for the construction of the new 16" waterline, 16" reclaimed waterline and dual 8" and 16" force mains to be constructed within the proposed FDOT right-of-way. These drawings provide for the installation and will avoid future FDOT construction to the highest extent possible.

Mud Creek Water Pollution Control Plant (WPCP) Upgrade and Expansion, Valdosta, Georgia - The Mud Creek WPCP was upgraded to meet increasingly stringent discharge requirements for surface water discharge. Upon completion of the expansion the 5.7 mgd facility employed a 5-stage Bardenpho process with UV disinfection in place of the existing chlorine gas system. Mr. Scullion assisted with the Design Development Report and final design of the expansion, including the influent pump station, mechanical screens and grit removal, and UV disinfection system. Mr. Scullion is also responsible for the review of shop drawings, requests for information (RFI) responses, preparation of design clarifications, and coordination of engineering services during construction (prior to BESH).

Project Manager, Arbennie Pritchett WRF Expansion, Okaloosa County, Florida - Design project manager and engineer of record for the $12.5 million design build of the expansion of the Arbennie Pritchett WRF. The expansion consists of the construction of an oxidation ditch, secondary clarifier, RAS pump station, UV disinfection train, and effluent pump (prior to BESH).

Education:
M.S. in Civil and Environmental Engineering, Ohio State University - 2006
B.S. in Civil and Environmental Engineering, Ohio State University - 2004

Professional Registrations:
• Florida #70753
• Georgia #PE034914

Professional Affiliations:
• Water Environment Federation
• American Water Works Association
• Board Certified Environmental Engineer
• American Academy of Environmental Engineers and Scientists

Experience Highlights:
• Wastewater Treatment Plant Design and Permitting
• Water Treatment Plant Design and Permitting
• Wastewater Pumping Station Design
• Collection, transmission, distribution and reclaimed water system design and permitting
• Design-Build Utility Construction
• Construction Engineering Inspection
• Utility Master Planning
Rick J. Travis, P.S.M. Senior Surveyor

Mr. Travis is a Licensed Professional Surveyor with over 40 years of experience in all areas of survey work. Mr. Travis is heavily experienced in planning and conducting field investigations, construction surveys, developing and reviewing technical project documents, engineering designs and drawings, monitoring and inspecting contractor work on construction projects and performing contract administration functions. In addition, he is proficient in AutoCAD, GPS, GIS, and cost estimating programs to analyze and manage data, trouble shoot data management problems and prepare detailed drawings, modeling projects, maps charts graphs and various data reports.

Mr. Travis also served as a surveyor for several Central Florida Counties including Orange County as the Project Manager for the Public Works Department and also as the Lake County Surveyor for the Public Works Department where he ensured compliance with all applicable laws, ordinances, regulations, policies and procedures.

Select Projects:
• Picciola Road Route Survey, Lake County, FL – The County desired to pave the shoulders of Picciola Road. Scope included a topographic survey of approximately 1700 linear feet to support the design work. Project Manager and Surveyor (prior to BESH).
• Twin Ponds Road, Lake County FL – Scope of work included a route topographic survey for the paving and drainage design. Survey was approximately 1800 linear feet. Project Manager and Surveyor (prior to BESH).
• Citrus Grove Road Phase I, Clermont FL – Surveyor and Project Manager for proposed road to connect the Florida Turnpike to Highway 27. Staked out proposed right-of-way, approximately 1600 linear feet. Project Manager and Surveyor (prior to BESH).
• Astatula Land Fill Solid Waste, Astatula, FL – Scope of work involved generating volume surveys on a quarterly basis for FDEP reports. Project Manager and Surveyor (prior to BESH).
• Lake County Survey Control Website, Lake County Public Works, Lake County, FL – The scope of the project was to create a website for surveyors to find horizontal and vertical control for flood zone management and other informational purposes, creating more autonomy for surveyors and engineers for necessary information. This project was a joint venture with Lake County GIS and the Lake County IT Department. Project Manager (prior to BESH).

Education:
Special GPS Training Course, Geo-Plane Inc.

Professional Registrations:
• Florida #5944

Professional Affiliations:
• Florida Surveying & Mapping Society
• Central Florida Chapter of the Florida Surveying & Mapping Society
• Florida Geo-Spatial Group
• National Society of Professional Surveyors

Experience Highlights:
• Sectional Surveys
• Boundary Surveys
• Mortgage & As-Built Surveys
• Subdivision Layout and Control
• Topographic Surveys
• Highway Design and Right-of-Way Surveys
• Research Legal Documents
• Writing of Legal Documents

Awards and Recognition:
• Central Florida Chapter of Florida Surveying & Mapping Society – Most Valuable Surveyor, March 2002
• Central Florida Chapter of Florida Surveying & Mapping Society – Chapter Webmaster, Year 2002
• Rollins College Certificate Of Achievement – Leadership Training 2002
• Central Florida Chapter of Florida Surveying & Mapping Society – Chapter President, 2005 – 2006
• Central Florida Chapter of Florida Surveying & Mapping Society – Board of Directors, 2012-2013
• Mid Florida Tech Apprenticeship Committee Member
Christopher B. Williams, Senior Designer

Mr. Williams is a Senior Designer with 31 years of experience in the design of water and wastewater treatment facilities, pump stations, collection, transmission, distribution and reuse systems. Mr. Williams is also well versed in the design and layout of commercial sites, including geometry, grading and drainage. Mr. Williams design experience encompasses preliminary through final design. He coordinates with other related disciplines, including structural and architectural consultants, in order to provide a complete package for clients.

**Select Projects:**

- **N.S.U. Water Treatment Plant #3, The Villages** - Senior Designer for new 5.76 mgd water treatment plant. Plant design consisted of two potable, 12" wells with 2,000 gpm well pumps, a 1,500,000 gallon ground storage tank, a forced draft aeration system with two 2,200 gpm transfer pumps, a pH adjustment system, three VFD controlled high service pumps with a capacity of 2,500 gpm each, gas chlorination system, electrical and controls, a SCADA system and a high service pump and electrical building.

- **Woodlea Road WWTP, City of Tavares** - Senior Designer for the expansion of existing facility from 1.0 mgd to 3.0 mgd. Upgrade to tertiary treatment to supply re-use water. Removal of the 0.75 mgd Caroline Street WWTP from service. Facility was replaced with a pump station to convey all raw wastewater to the newly expanded Woodlea Road facility. Included in this flow diversion was approximately 12,000 linear feet of 16" force main.

- **Eastern Service Area WTP, City of Mount Dora** - Senior Designer for new 4.0 mgd water treatment plant. Treatment will include iron sequestration, aeration and disinfection. Plant also includes ground storage and VFD controlled high service pumping.

- **City of Fruitland Park Sanitary Sewer Upgrades Project** - Senior Designer - project included the design and permitting for a sanitary sewer collection system and upgrades to potable water lines and addition of fire hydrants for increased fire protection. This project was a benefit to 70 low income single-family homes and 20 additional single-family homes, not low income BESH prepared bid documents and specifications in accordance with the grant requirements. BESH also oversaw construction, conducted weekly meetings and prepared final certifications of the project to close out the grant.

**Education:**

Edgewater High School
Orlando, Florida - 1984

**Experience Highlights:**

- Wastewater Treatment Plant Design and Permitting
- Water Treatment Plant Design and Permitting
- Potable Water Pumping Station Design
- Wastewater Pumping Station Design
- Collection, transmission, distribution and reclaimed water system design and permitting
- Design-Build Utility Construction

**Community Involvement:**

- Surf Rider Foundation
Mr. Bailey is an electrical engineer experienced in designing electrical and control systems for municipal systems and water and wastewater treatment facilities, above and below ground distribution systems, lighting systems for parks and roadway and industrial facilities. His project management responsibilities encompass preliminary and final design, cost estimating, and construction/start-up services. He participates on quality assurance/quality control teams to evaluate electrical systems’ technical conformance to codes and adherence to a project's overall design scheme. He interfaces with other project consultants, as well as client and vendor representatives.

Mr. Bailey is experienced in electrical project engineering and project management. He has practiced applied electrical engineering on a variety of environmental projects having been involved from concept to preliminary and final design through construction start-up. His experience involves electrical engineering for computer facilities, treatment and disposal facilities, and power/lighting designs for buildings.

Mr. Bailey was the project manager, in responsible charge, for all electrical design concerns for the following projects:

- Donax WWTP – Phase 2A
  City of Sanibel, Florida

- Eustis WWTP
  City of Eustis, Florida

- Southeast Regional WWTP Expansion
  Manatee County, Florida

- Venice RO Water Treatment Plant
  Chlorination System Improvements
  City of Venice, Florida

- Lauderhill Water Treatment Plant
  City of Lauderhill, Florida

- Tamarac Stormwater Pump Stations
  City of Tamarac, Florida
EDUCATION

Degree: Bachelor of Science in Engineering, 1979, University of Central Florida
Major: Civil and Structural Engineering

EXPERIENCE

SOUTHEAST STRUCTURAL ENGINEERS, INC.: Orlando, Florida
June 1987 - Present
President of the firm and personally executing the structural design, production of drawings, specifications, and construction phase administration for schools, industrial, municipal and commercial buildings and water and wastewater projects.

ROGER A. BARTH, P.E., CONSULTING ENGINEER:
Orlando, Florida
April 1985 - June 1987
Managed production of structural design documents, specification development, and construction phase services for buildings of all types and materials for both public and private sectors.

BOYLE ENGINEERING CORPORATION:
Orlando, Florida
April 1981 - April 1985
Structural design of buildings including industrial, municipal and commercial; contract document production in concrete, masonry, steel and timber structures; design of water and waste water structures.

WATSON AND COMPANY:
Tampa and Orlando, Florida
September 1979 - April 1981
Structural design of buildings including schools, industrial, municipal and commercial. Design engineer on South Cross-Town Expressway bridge project.

PROFESSIONAL LICENSES AND MEMBERSHIPS

Professional Engineer, State of Florida, #34182 (2/10/84)
Member American Concrete Institute
Member American Society of Civil Engineers
Tab 4
Location
OFFICE LOCATION

Booth, Ern, Straughan & Hiott, Inc. (BESH) is located at 902 North Sinclair Avenue, Tavares, Florida 32778. All of the project work for the Utilities Commission for the City of New Smyrna Beach will be completed from this location.
Tab 5
Financial Stability
March 19, 2018

Purchasing Coordinator
New Smyrna Beach City Hall
2nd Floor
210 Sams Ave.
New Smyrna Beach, FL 32168

Re: RSQ#10-18; City of New Smyrna Continuing Professional Services

Dear To Whom It May Concern:

Please allow this letter to serve as a reference for Booth, Ern, Straughan, & Hiott (BESH). BESH is a valued customer of The First National Bank of Mount Dora, having maintained multiple accounts with the bank for nearly 10 years. During that time, all accounts have been handled as agreed.

Based on the RSQ requirements and conversations with management regarding the scope of work to be performed in association with this project, BESH has the necessary financial resources available to complete the contractual requirements for the City of New Smyrna.

Please feel free to contact me at 352.385.1418 for any further assistance.

Sincerely,

[Signature]

William L. Brooks III
Vice President
Tab 6
Insurance
CERTIFICATE OF LIABILITY INSURANCE

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

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

PRODUCER
Commercial Lines - (305) 443-4886
USI Insurance Services National, Inc.
2601 South Bayshore Drive, Suite 1600
Coconut Grove, FL 33133

INSURED
TriNet HR III-A, Inc.
RE: Booth, Ern, Straughan & Hiott, Inc.
9000 Town Center Parkway
Bradenton, FL 34202

CONTACT NAME: Risk Management Department
PHONE: (866)443-8489
FAX: (800)889-0021
E-MAIL ADDRESS: Work.Comp@Trinet.com

INSURER(S) AFFORDING COVERAGE
INDEMNITY Insurance Company of North America 43575

CERTIFICATE NUMBER: 12824272

REVISION NUMBER: See below

This is to certify that the policies of insurance listed below have been issued to the named insured above for the policy period indicated. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies. Limits shown may have been reduced by paid claims.

INSR LTR TYPE OF INSURANCE ADDL/SUBR INSO ADDL/SUBR WOAD POLICY NUMBER POLICY EXP DATE/MM/DD/YYYY LIMITS

COMMERCIAL GENERAL LIABILITY CLAIMS-MADE OCCUR

GENL. AGGREGATE LIMIT APPLIES PER:

POLICY PROJECT LOC OTHER

AUTOMOBILE LIABILITY

ANY AUTO
OWNED AUTOS ONLY SCHEDULED AUTOS
HIRED AUTOS ONLY NON-OWNED AUTOS ONLY

UMBRELLA LIAB OCCUR CLAIMS-MADE

EXCESS LIAB

DED RETENTION $ X

WKL_C64417733 09/17/2017 07/01/2018

X PER STATUTE OTHER

E.L. EACH ACCIDENT $ 2,000,000
E.L. DISEASE - EA EMPLOYEE $ 2,000,000
E.L. DISEASE - POLICY LIMIT $ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Workers’ Compensation coverage is limited to worksite employees of Booth, Ern, Straughan & Hiott, Inc. through a co-employment agreement with TriNet HR III-A, Inc.
A Waiver of Subrogation applies in favor of certificate holder as required by written contract.

CERTIFICATE HOLDER
City of New Smyrna Beach, COMMISSIONS OFFICE
PO Box 100
ATTN: Engineering Manager
New Smyrna Beach, FL 32170

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

The ACORD name and logo are registered marks of ACORD © 1988-2015 ACORD CORPORATION. All rights reserved.
Workers' Compensation and Employers' Liability Policy

Named Insured: TriNet HR III-A, Inc.
RE: Booth, Em, Straughan & Hiott, Inc.
9000 Town Center Parkway
Bradenton, FL 34202

Endorsement Number
Policy Number: WLR_C64417733
Symbol: 
Number: 

Policy Period: 09/17/201 TO 07/01/2018
Effective Date of Endorsement: 09/17/201

Issued By (Name of Insurance Company): Indemnity Insurance Company of North America
Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.

This agreement shall not operate directly or indirectly to benefit any one not named in the Schedule.

Schedule

City of New Smyrna Beach, COMMISSIONS OFFICE
PO Box 100
ATTN: Engineering Manager
New Smyrna Beach, FL 32170

For the states of CA, TX, refer to state specific endorsements. This endorsement is not applicable in KY, NH, and NJ.

[Signature]
Authorized Agent

WC 00 03 13 (11/05) Ptd. U.S.A. Copyright 1982-83, National Council on Compensation Insurance
<table>
<thead>
<tr>
<th>INSURER A</th>
<th>Landmark American Insurance Co</th>
<th>33138</th>
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<td>INSURER B</td>
<td>Addison Insurance Company</td>
<td>10324</td>
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<td>INSURER C</td>
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<td></td>
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<tr>
<td>INSURER D</td>
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<tr>
<td>INSURER E</td>
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<tr>
<td>INSURER F</td>
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### Coverages

<table>
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<tr>
<th>Certificate Number:</th>
<th>60350641</th>
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<tbody>
<tr>
<td>Type of Insurance:</td>
<td>Commercial General Liability</td>
</tr>
<tr>
<td>Insured:</td>
<td>Booth, Ern, Straughan &amp; Hiott, Inc.</td>
</tr>
<tr>
<td>Address:</td>
<td>902 N. Sinclair Ave</td>
</tr>
<tr>
<td>City:</td>
<td>Tavares, FL 32778</td>
</tr>
<tr>
<td>Policy Period:</td>
<td>08/01/2017 - 08/01/2018</td>
</tr>
<tr>
<td>Limits:</td>
<td>Each Occurrence: $1,000,000, Damage to Rented Premises: $500,000, Medical Exp.: $5,000, Personal &amp; Adv. Injury: $1,000,000, General Aggregate: $2,000,000, Products - Comp/Op Aggregate: $2,000,000</td>
</tr>
</tbody>
</table>

#### Additional Insures

- Merrill Insurance
- City of New Smyrna Beach
- Addison Insurance Company
- Landmark American Insurance Co

#### Cancellation

Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

**City of New Smyrna Beach**
Commissions Office
ATTN: Engineering Manager
PO Box 100
New Smyrna Beach, FL 32170-0100

**Authorized Representative**

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Tab 7
Occupational License
State of Florida
Board of Professional Engineers
Attest that
Booth, Ern, Straughan & Hiott, Inc.

Is authorized under the provisions of Section 471.027, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.
Expiration: 2/28/2019
Audit No: 228301063485 R
CA Lic. No: 27929

State of Florida
Board of Professional Engineers
Attest that
Robert A. Ern Jr., P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 22820106666 R
PE. Lic. No: 54013

State of Florida
Board of Professional Engineers
Attest that
Michael Christopher Scullion , P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 22820106766 R
PE. Lic. No: 70753

State of Florida
Board of Professional Engineers
Attest that
Troy Edward Mitchell , P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 22820106883 R
PE. Lic. No: 60190

State of Florida
Board of Professional Engineers
Attest that
Bailey Engineering Consultants, Inc.

Is authorized under the provisions of Section 471.027, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.
Expiration: 2/28/2019
Audit No: 22820106720 R
CA Lic. No: 6783
State of Florida
Board of Professional Engineers

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 23626932899 R
P.E. Lic. No: 42461

State of Florida
Board of Professional Engineers
Attends that
Southeast Structural Engineers, Inc.

Is authorized under the provisions of Sections 471.021, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.
Expiration: 2/28/2019
Audit No: 23628905844 R
CA Lic. No: 4484

State of Florida
Board of Professional Engineers
Attends that
Roger Allan Barth, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 23628930407 R
P.E. Lic. No: 34182

State of Florida
Board of Professional Engineers
Attends that
Andreyev Engineering, Inc.

Is authorized under the provisions of Section 471.021, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.
Expiration: 2/28/2019
Audit No: 23628985227 R
CA Lic. No: 7634

State of Florida
Board of Professional Engineers
Attends that
Raymond William Jones, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 23638912338 R
P.E. Lic. No: 50079
Tab 8
References
References

Paul Lahr
City Engineer
3783 Lake Center Drive
Mount Dora, FL 32757
352-735-7155

James Huish
Director of Public Works
City of Groveland
1198 Sampey Road
Groveland, FL 34736
(352) 429-0227 x17

James Kinzler
Director of Capital Planning and Projects
685 W. Montrose Street
3rd Floor
Clermont, FL 34711
(352) 241-7356

Current Similar Contracts

City of Mount Dora Continuing Engineering Services
City of Groveland Continuing Engineering Services
City of Clermont Continuing Engineering Services
Tab 9

Other Information
Why Choose Booth, Ern, Straughan & Hiott, Inc.?

BESH’s model of operations involves our partners being hands-on in all of our projects. From inception to close-out, the partners of BESH are involved every step of the way – a claim larger firms cannot make. You have the surety of knowing should any changes or issues arise, it goes straight to the decision-maker for quick resolution.

We understand the significant nature of your projects. BESH works hand-in-hand with municipalities to identify any deficiencies or pending issues that may compromise the project and offers innovative and practical solutions for your project while respecting the need to adhere to schedule and budget. Our design process includes development of a construction cost estimate at each project milestone and value engineering reviews to ensure that not only will you receive a quality product, but also one that can be implemented within the constraints of your budget.

BESH has a demonstrated history of responsiveness. We routinely respond to calls immediately during working hours and on weekends and holidays. Our staff is willing to go the extra mile to serve the City’s needs and be available when you need us. We are committed to be accessible at a moment’s notice for meetings, calls and functions to provide prompt turnaround times. Simply put… we are here whenever you need us.

BESH is the locally-recognized technical experts. Our team of engineers has a strong track record of successfully completing projects that have garnered recognition and our personnel has decades of experience in the design, permitting, and construction oversight of wastewater treatment facility improvement projects. Our commitment to quality includes regular technical reviews at every project milestone.
Addendum No 2 Received By:

April 4, 2018

Signature/Authorized Company Official Date

Robert A. Ern, Jr., P.E. Principal/Vice President

Printed Name

Submit this signed form with your proposal on April 5th.